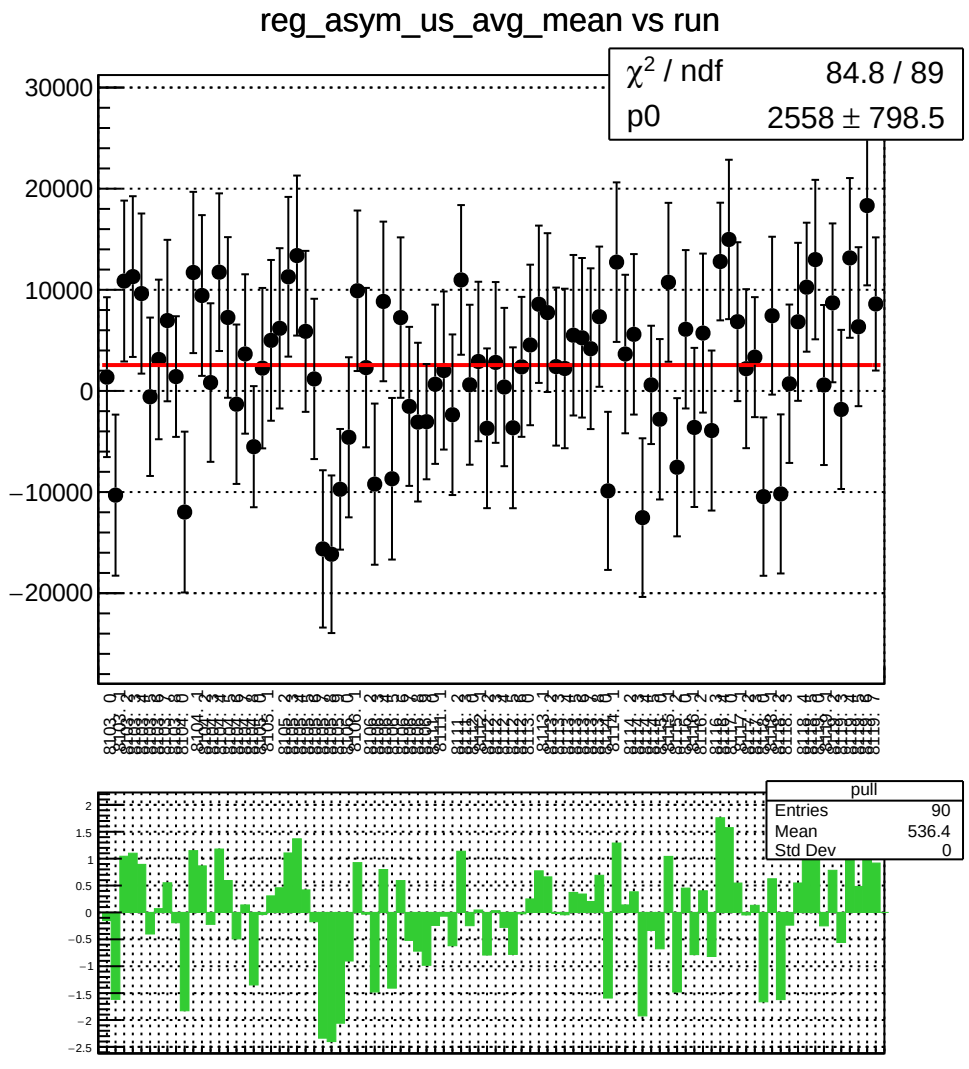
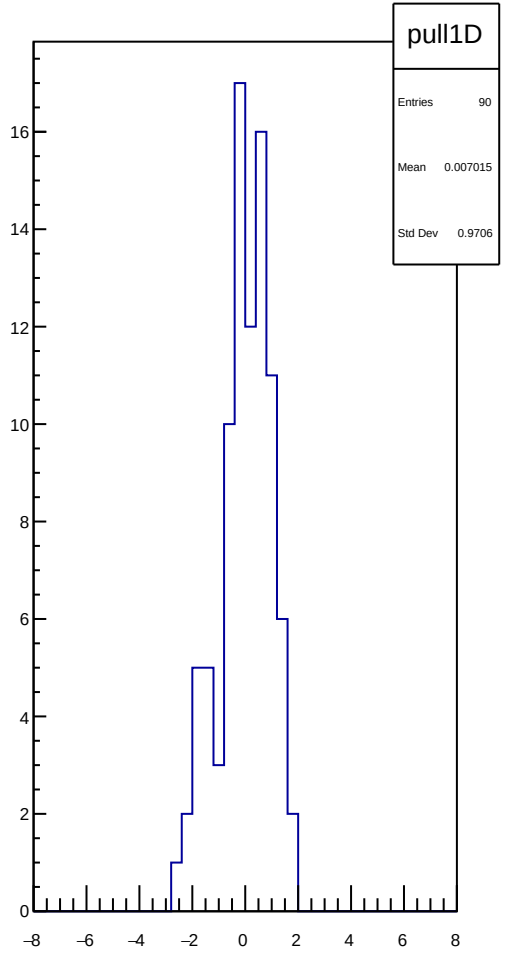
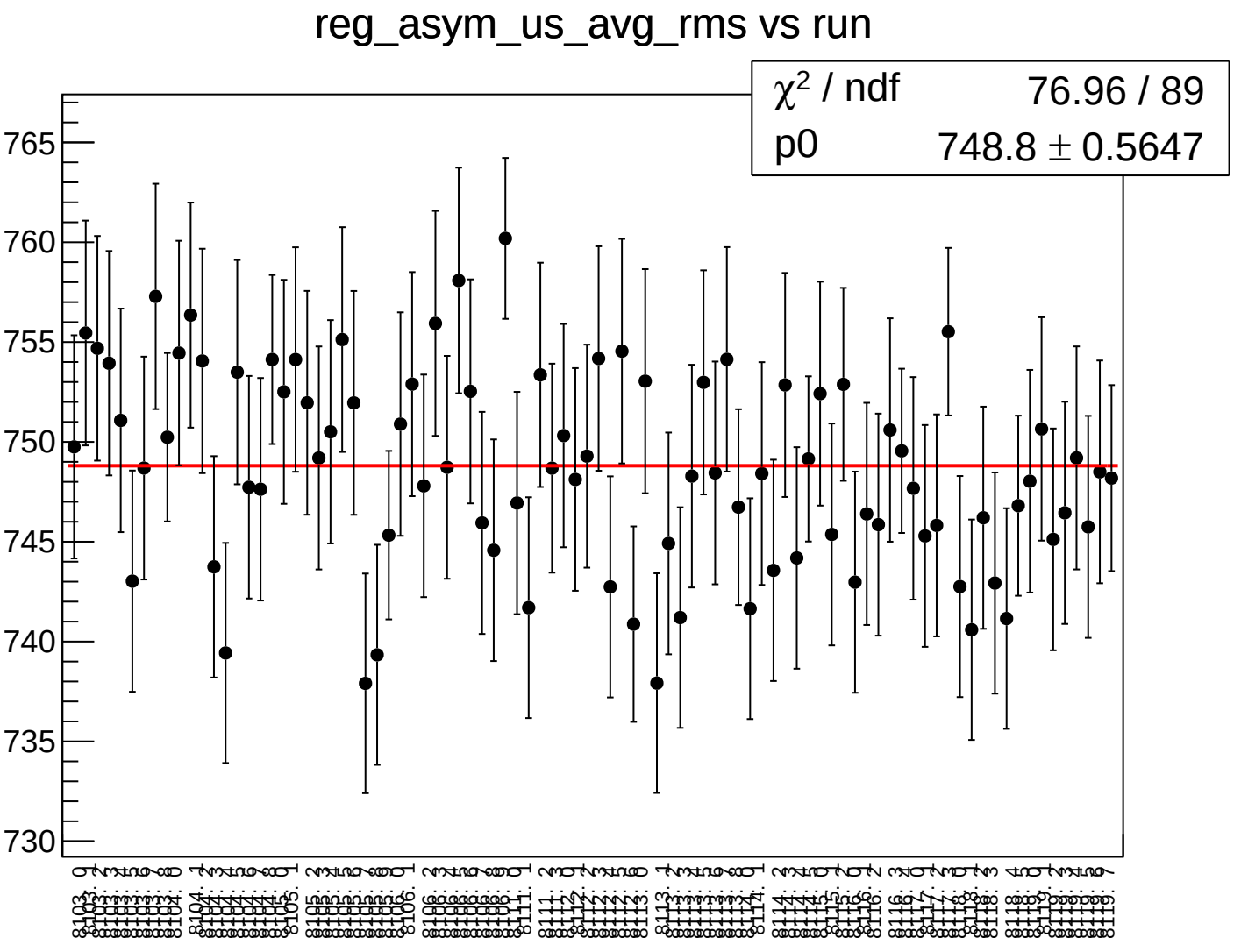
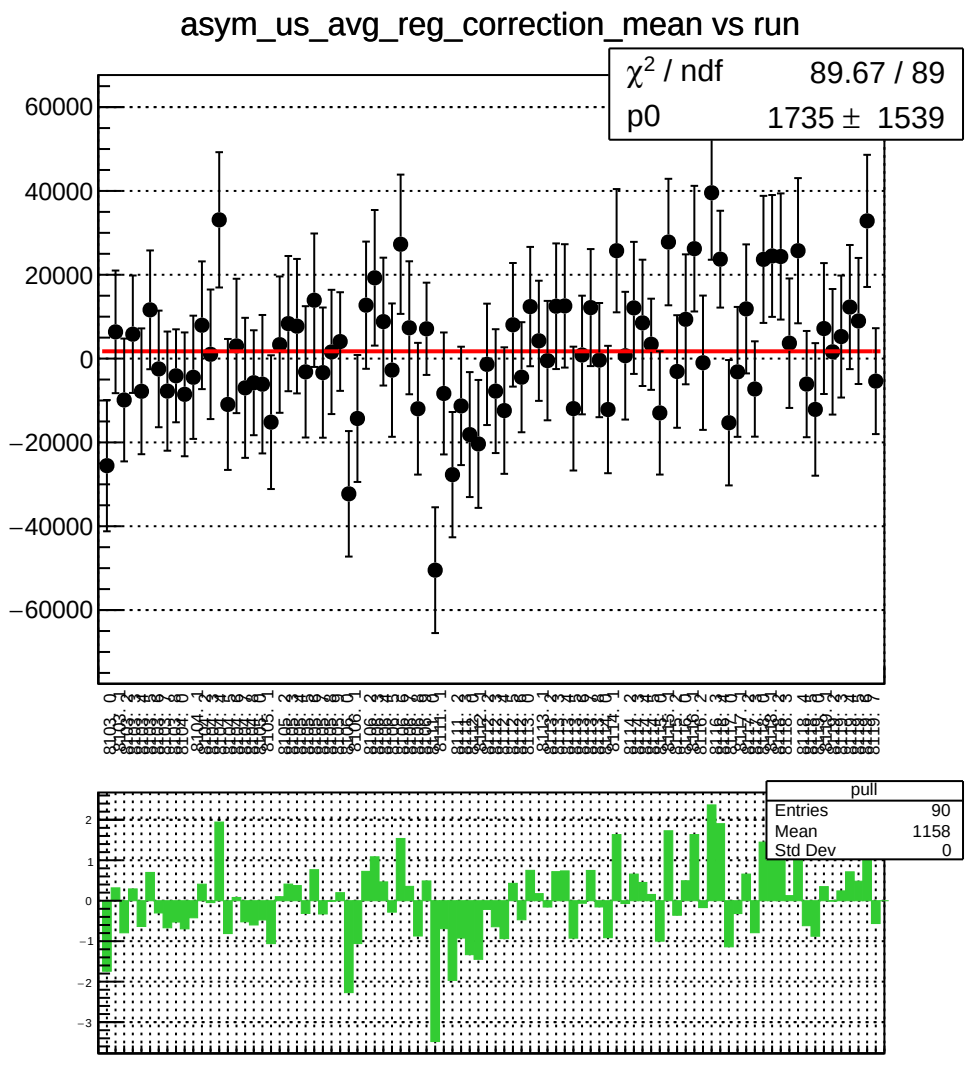
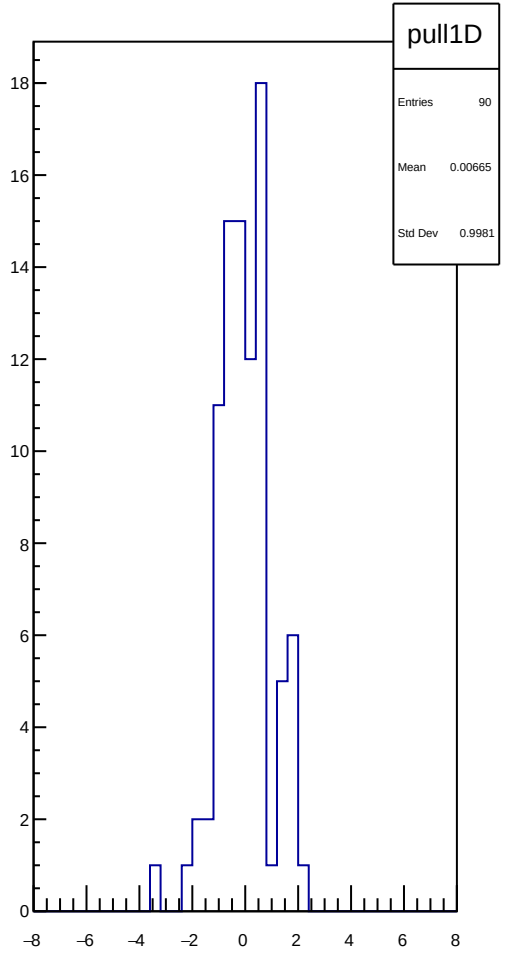
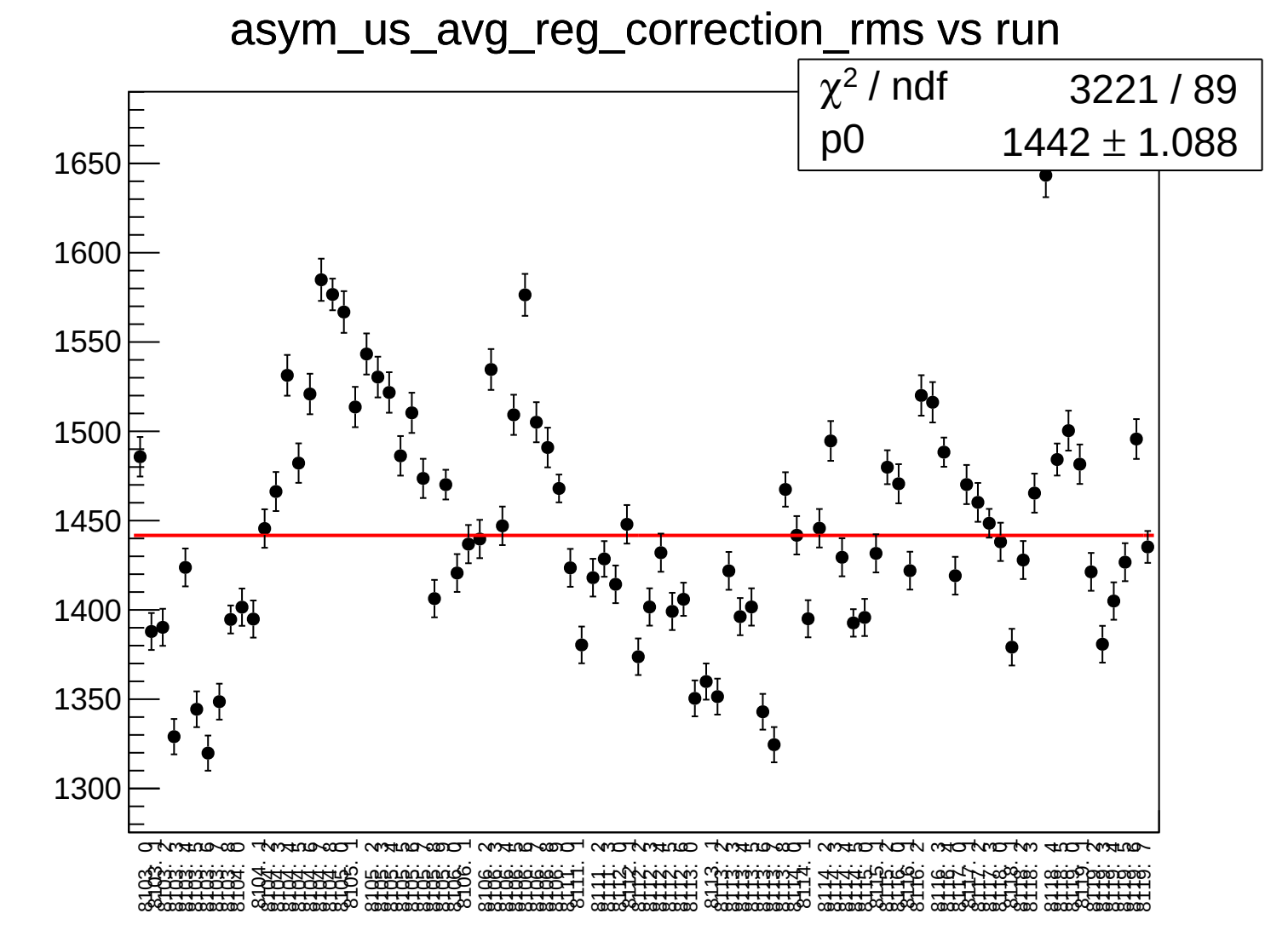

reg_asym_us_avg_mean vs run
χ² / ndf 84.8 / 89
p0 2558 ± 798.5
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 536.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

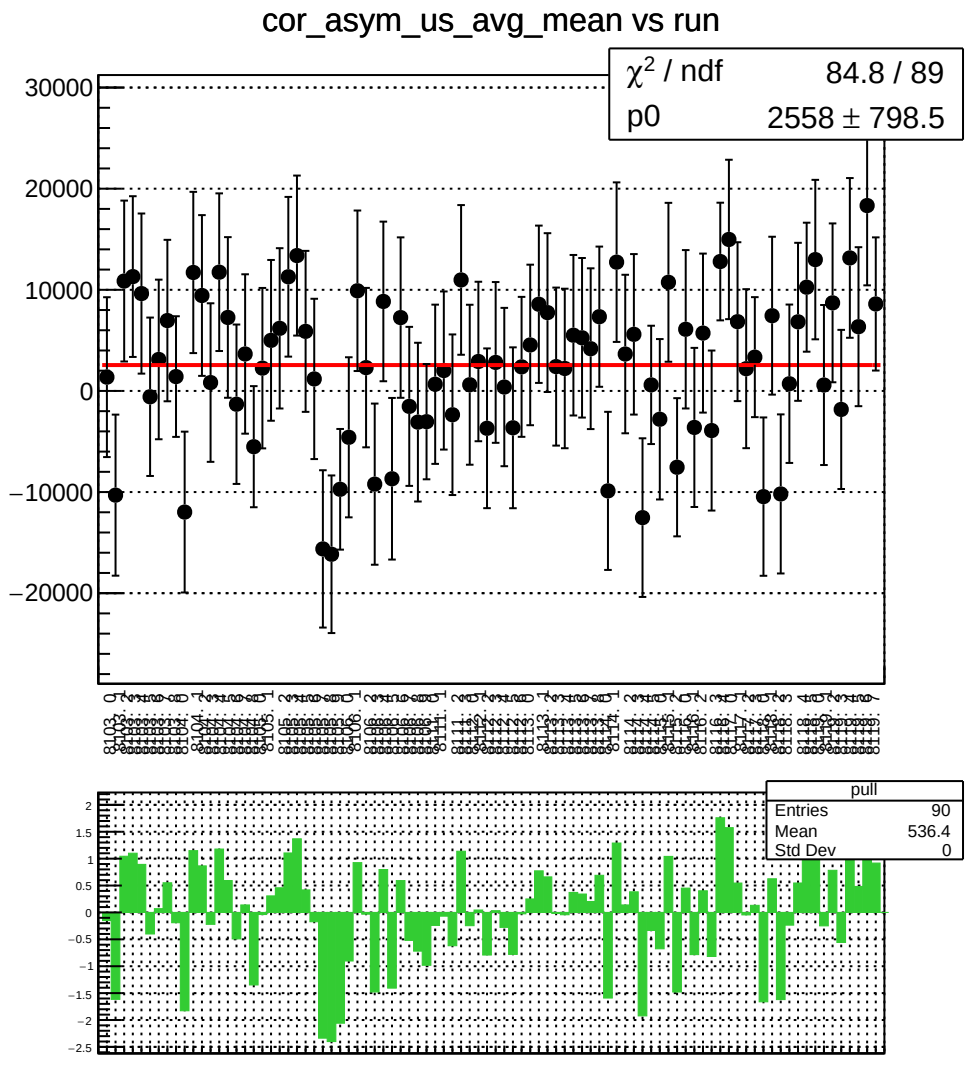

pull1D
Entries 90
Mean 0.007015
Std Dev 0.9706
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

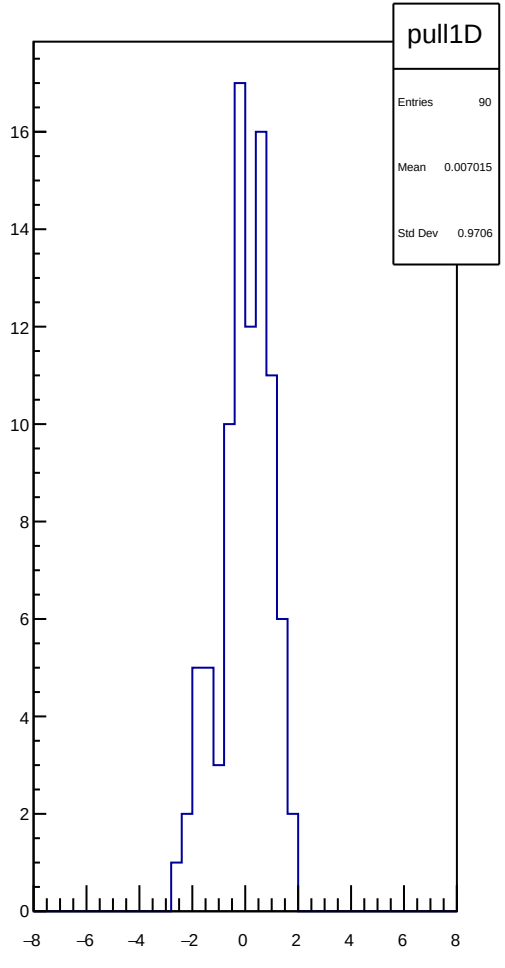

reg_asym_us_avg_rms vs run
χ² / ndf 76.96 / 89
p0 748.8 ± 0.5647
765
760
755
750
745
740
735
730

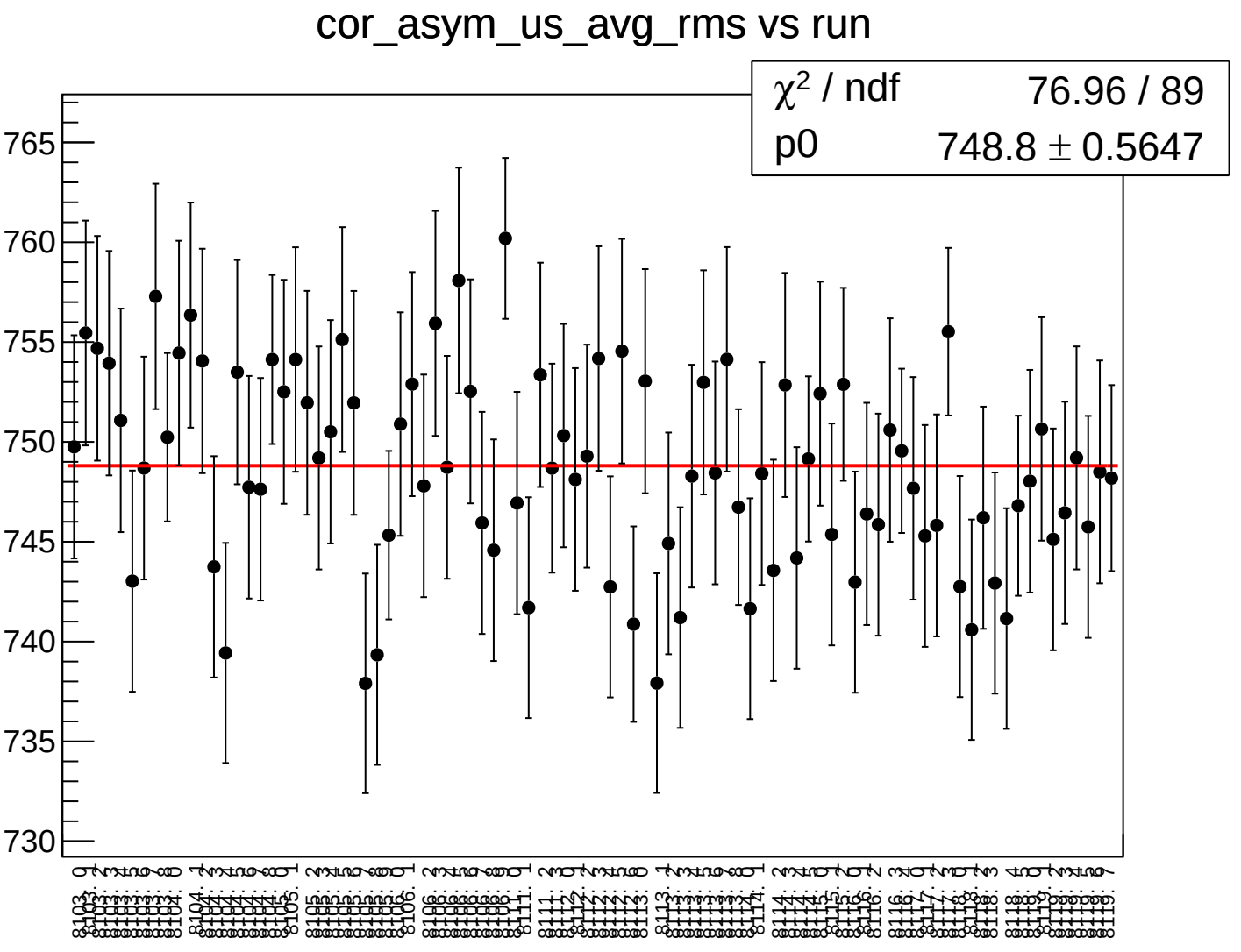

asym_us_avg_reg_correction_mean vs run
χ² / ndf 89.67 / 89
p0 1735 ± 1539
pull
Entries 90
Mean 1158
Std Dev 0

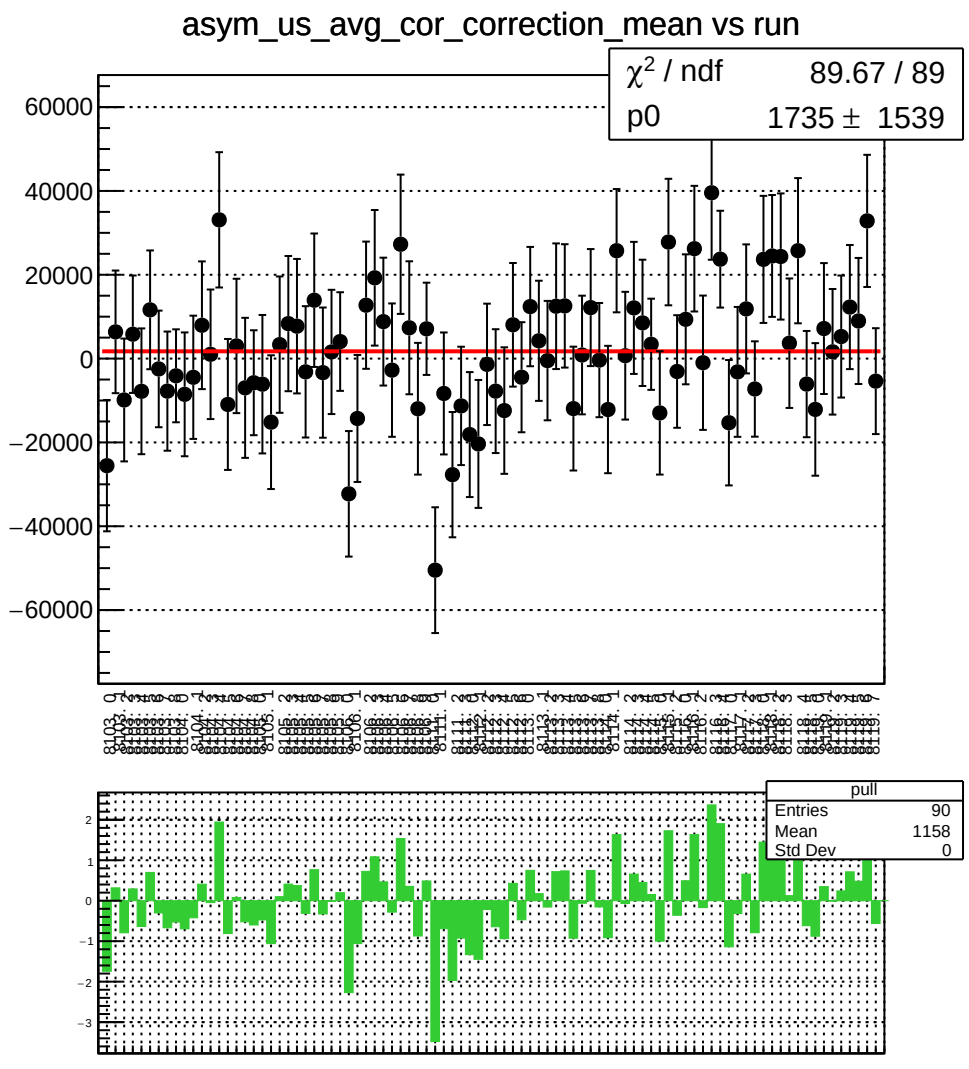

pull1D
Entries 90
Mean 0.00665
Std Dev 0.9981

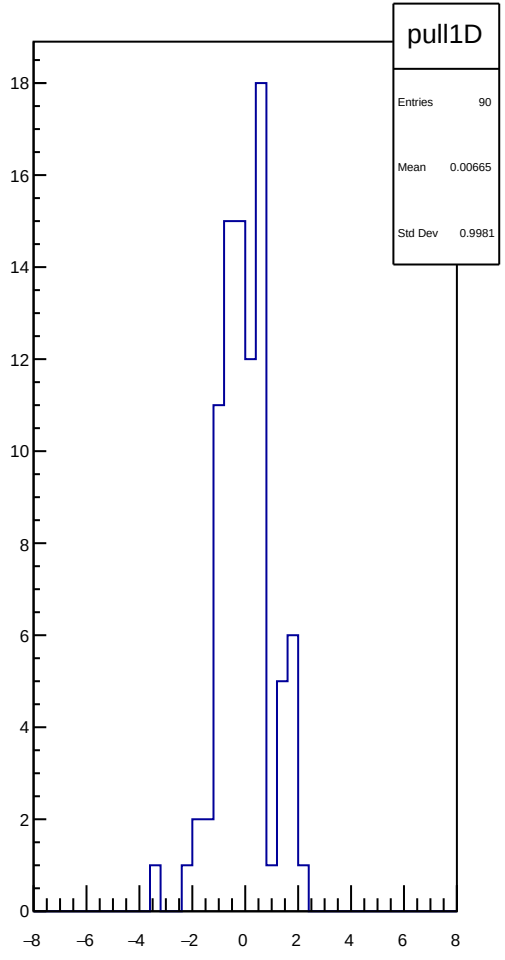

asym_us_avg_reg_correction_rms vs run
χ² / ndf 3221 / 89
p0 1442 ± 1.088
1650
1600
1550
1500
1450
1400
1350
1300

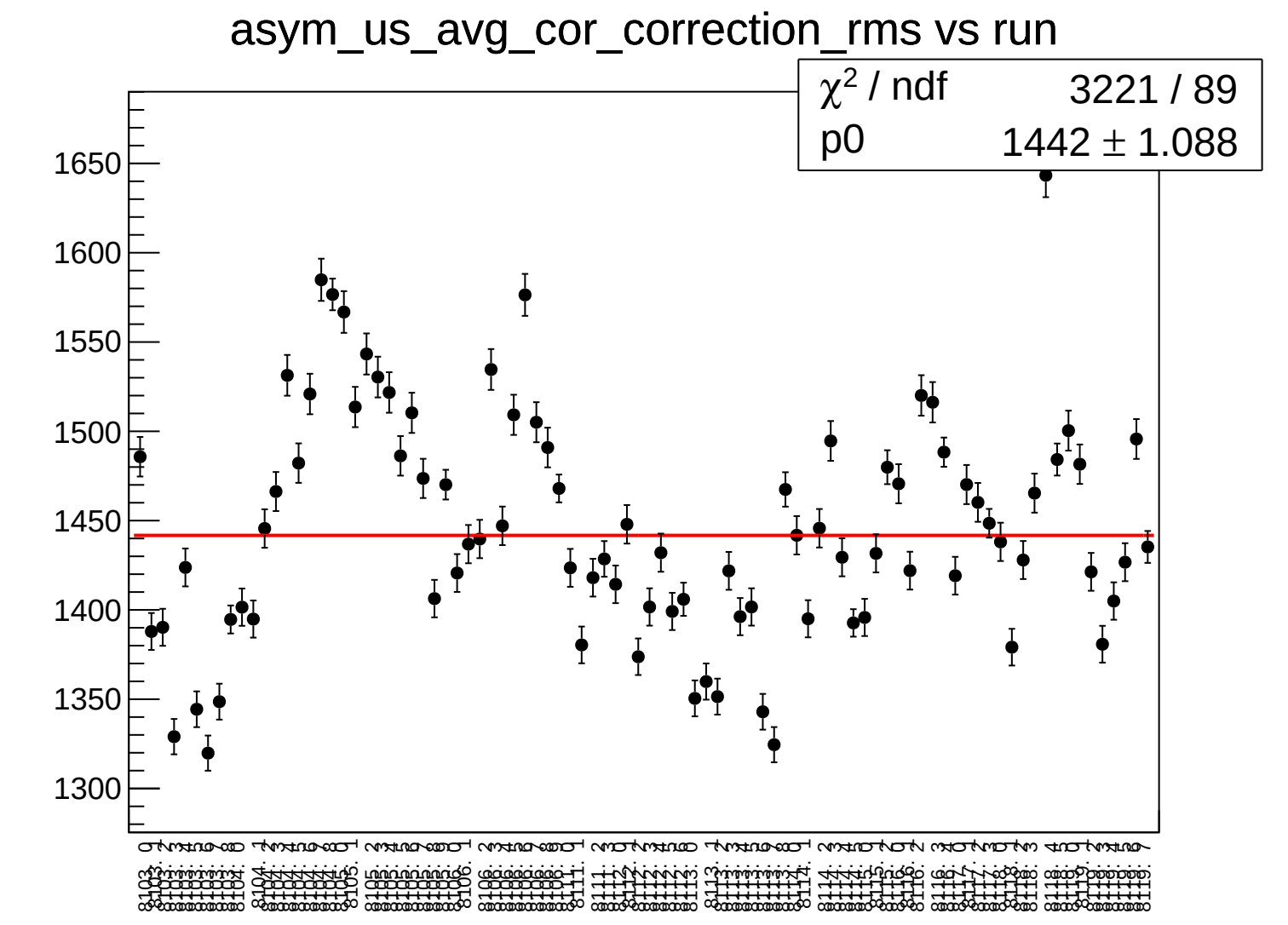

cor_asym_us_avg_mean vs run
χ² / ndf 84.8 / 89
p0 2558 ± 798.5
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 536.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

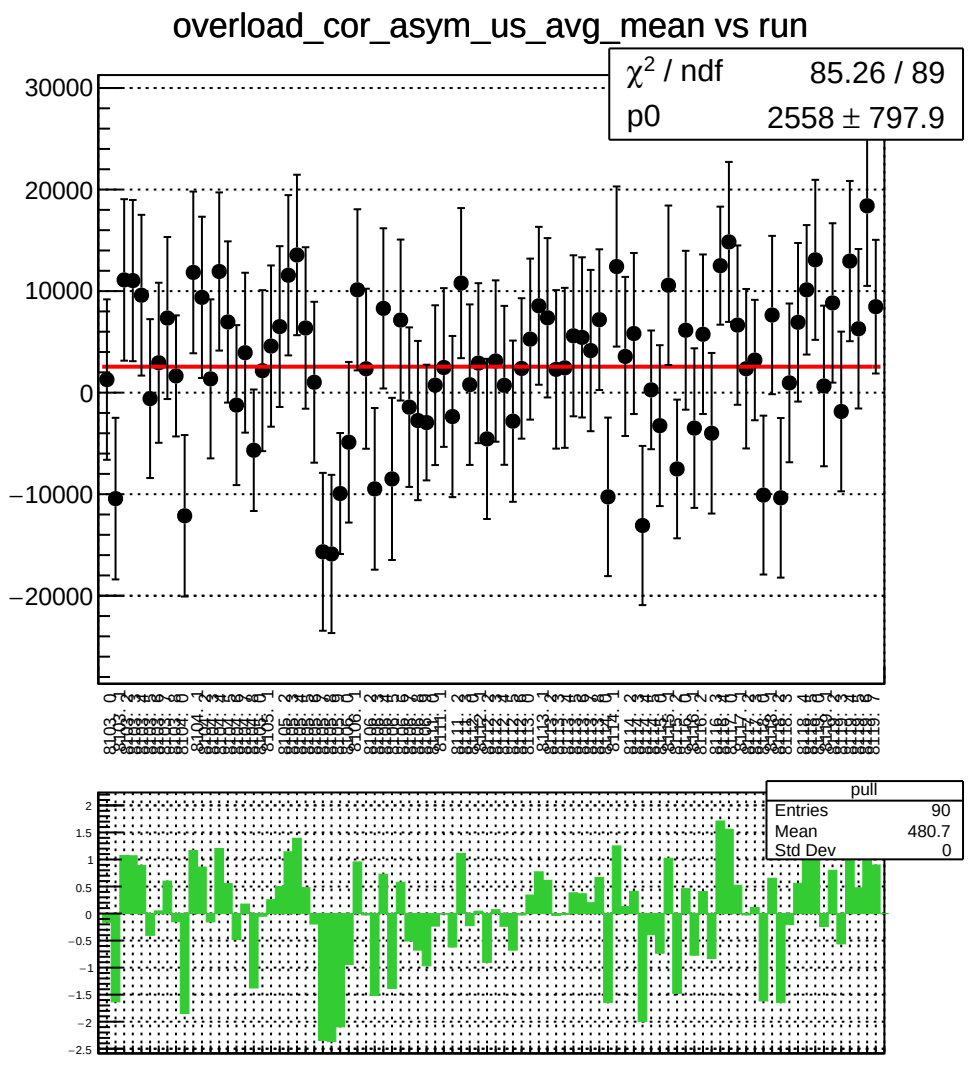

pull1D
Entries 90
Mean 0.007015
Std Dev 0.9706
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

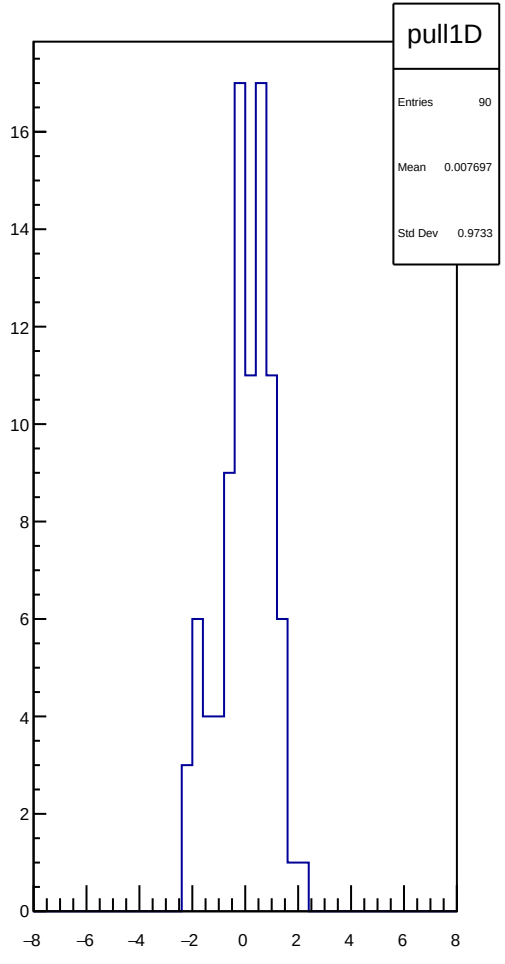

cor_asym_us_avg_rms vs run
χ² / ndf 76.96 / 89
p0 748.8 ± 0.5647
765
760
755
750
745
740
735
730


asym_us_avg_cor_correction_mean vs run
χ² / ndf 89.67 / 89
p0 1735 ± 1539
pull
Entries 90
Mean 1158
Std Dev 0


pull1D
Entries 90
Mean 0.00665
Std Dev 0.9981


asym_us_avg_cor_correction_rms vs run
χ² / ndf 3221 / 89
p0 1442 ± 1.088
1650
1600
1550
1500
1450
1400
1350
1300


overload_cor_asym_us_avg_mean vs run
χ² / ndf 85.26 / 89
p0 2558 ± 797.9
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 480.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.007697
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
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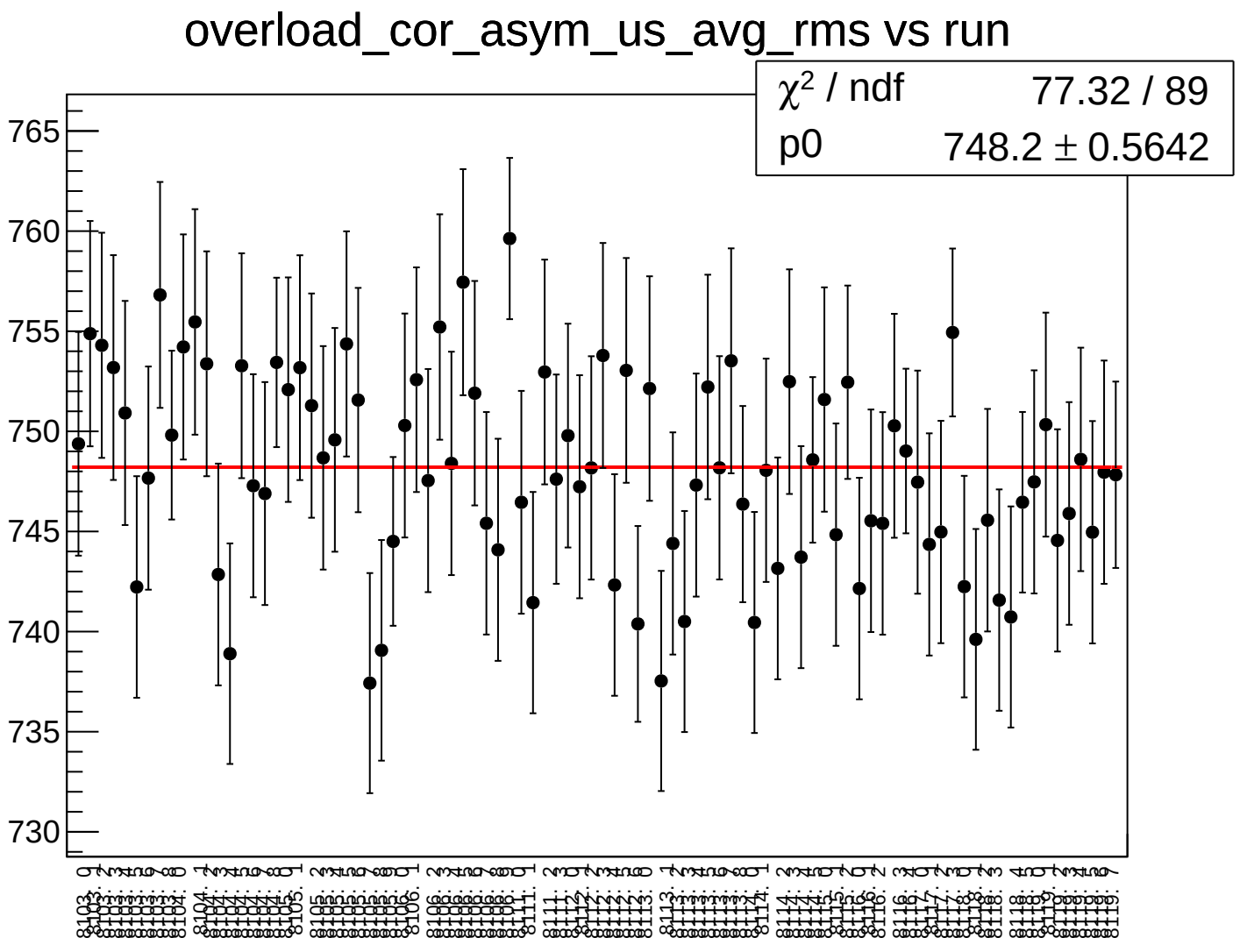
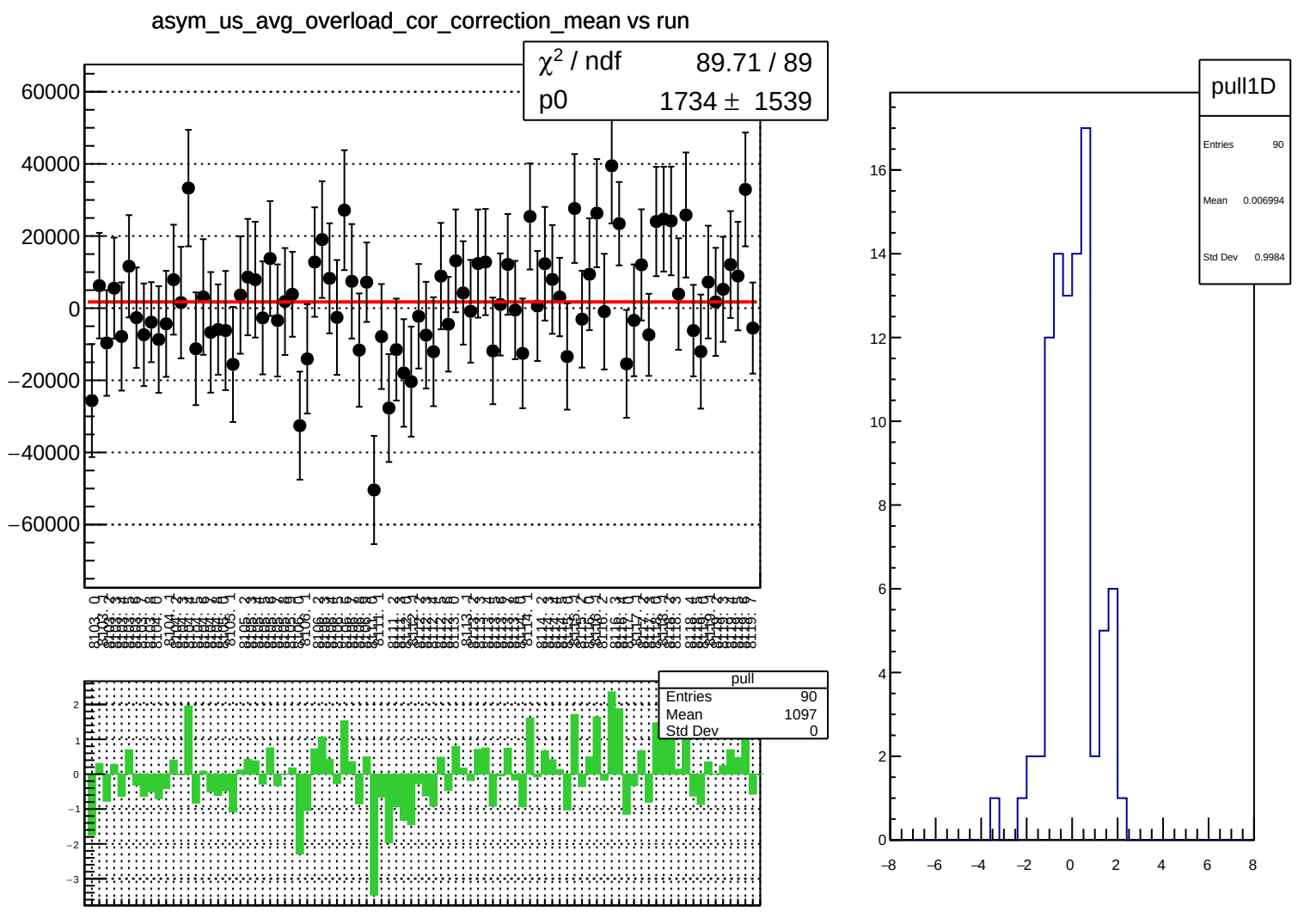
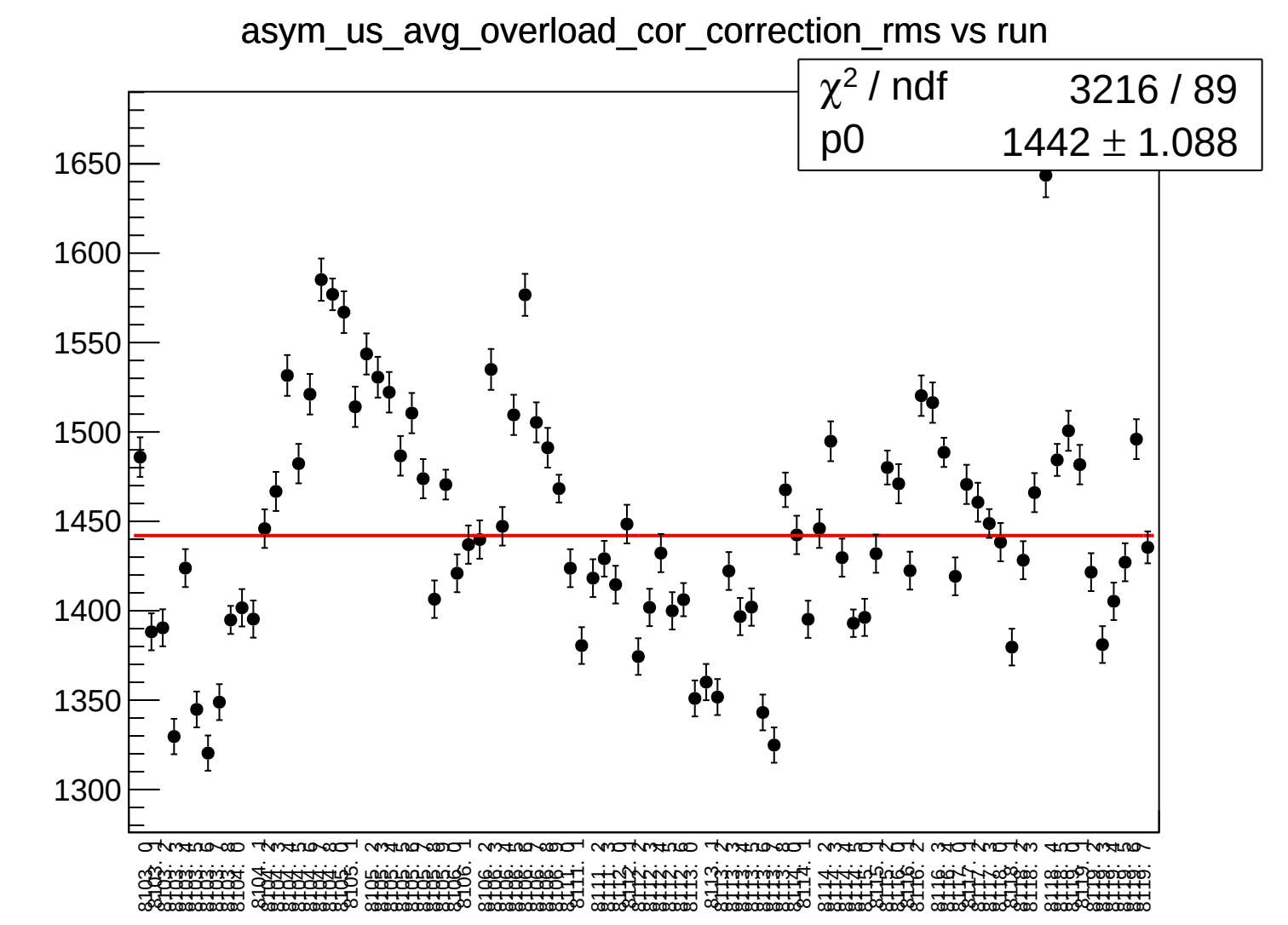
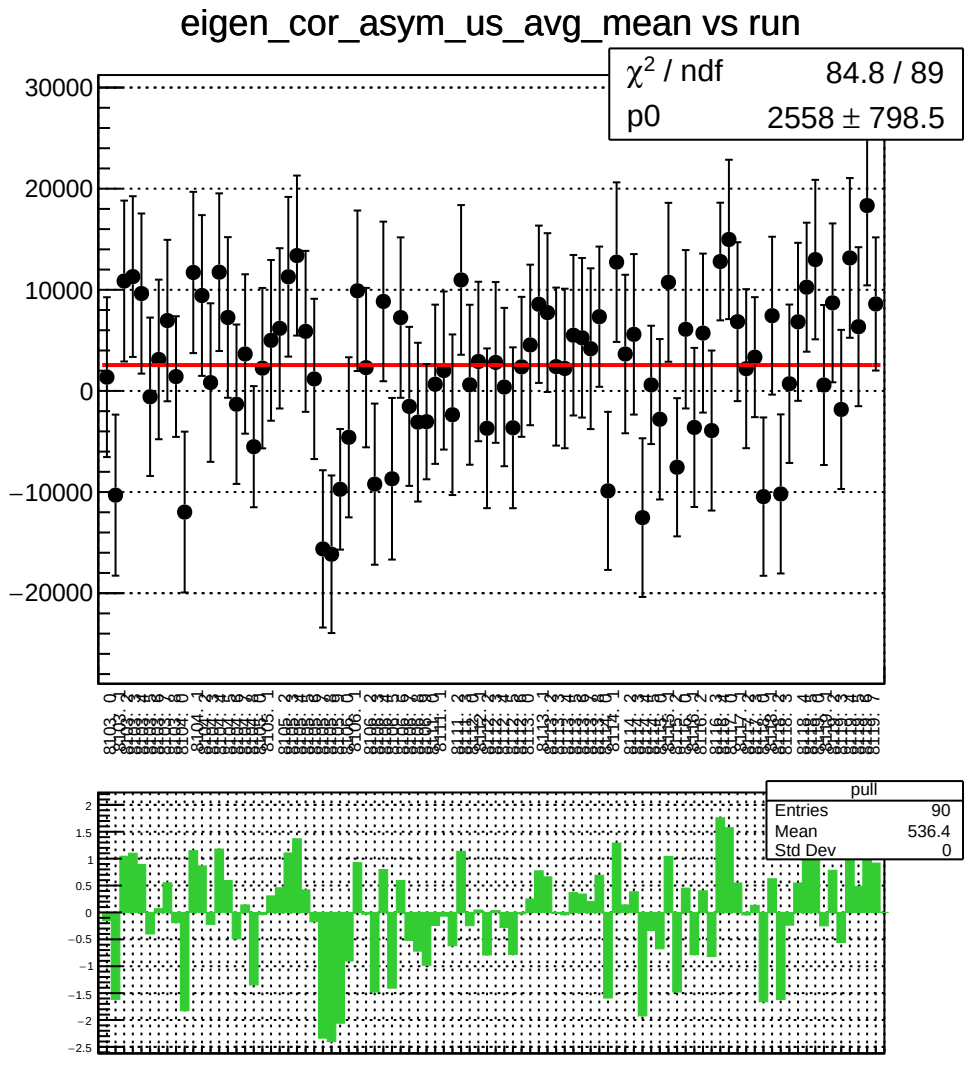
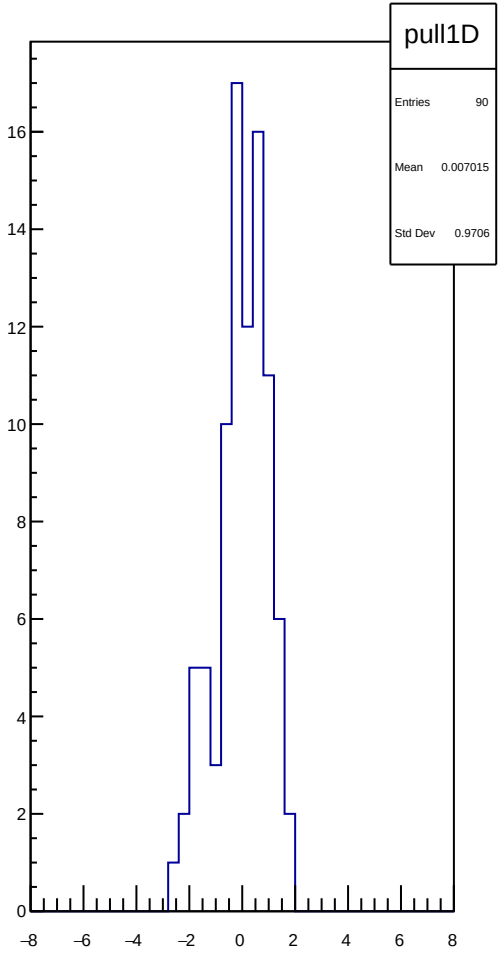
0
2
4
6
8

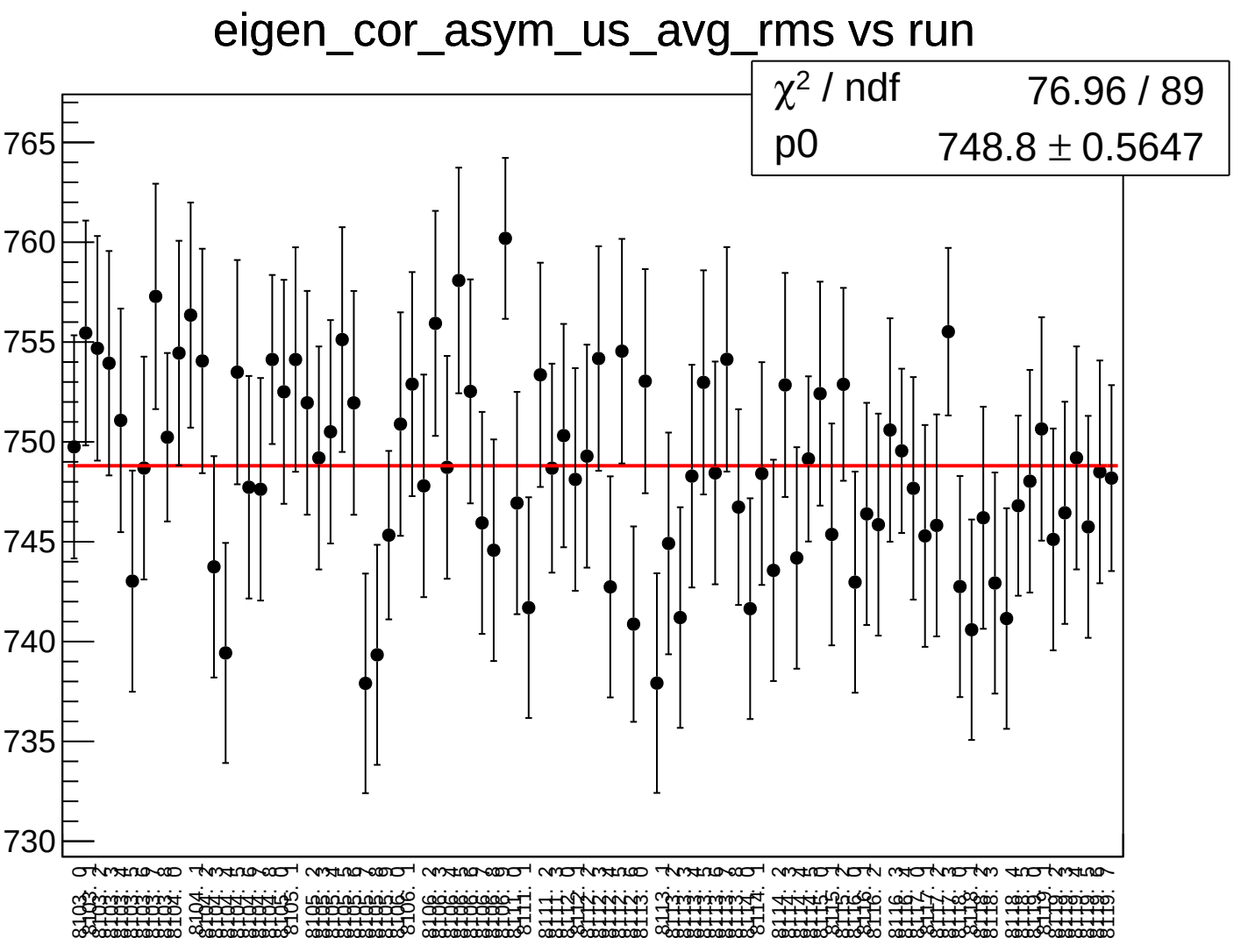

overload_cor_asym_us_avg_rms vs run
χ² / ndf 77.32 / 89
p0 748.2 ± 0.5642
765
760
755
750
745
740
735
730

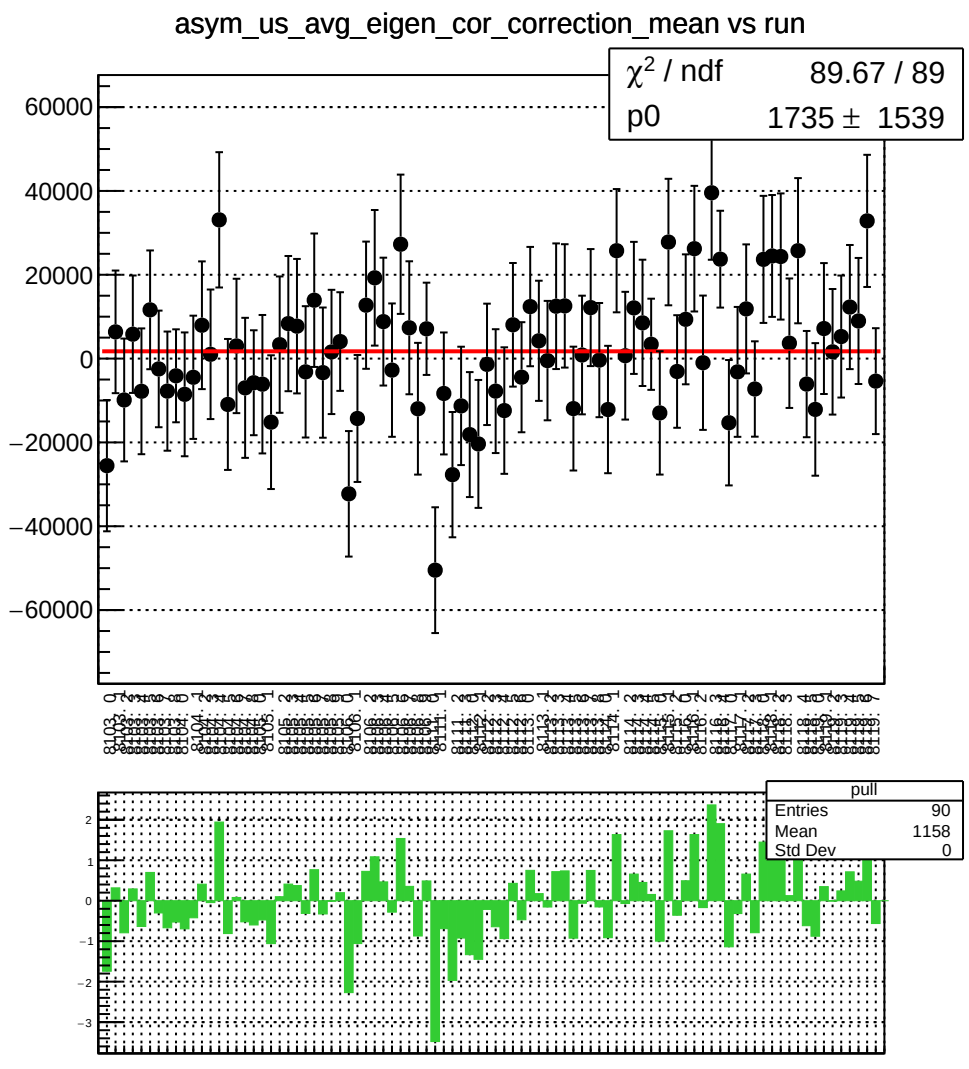

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 89.71 / 89
p0 1734 ± 1539
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1097
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.006994
Std Dev 0.9984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

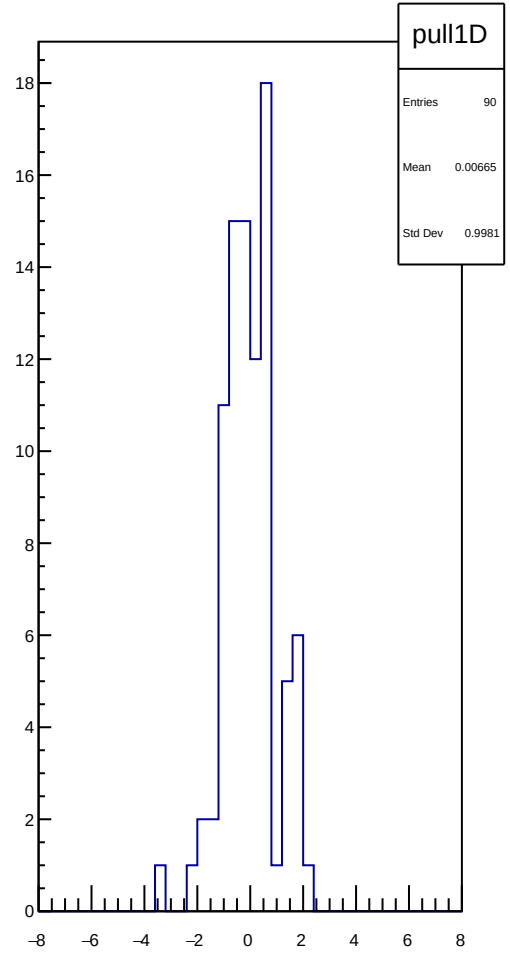

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3216 / 89
p0 1442 ± 1.088
1650
1600
1550
1500
1450
1400
1350
1300

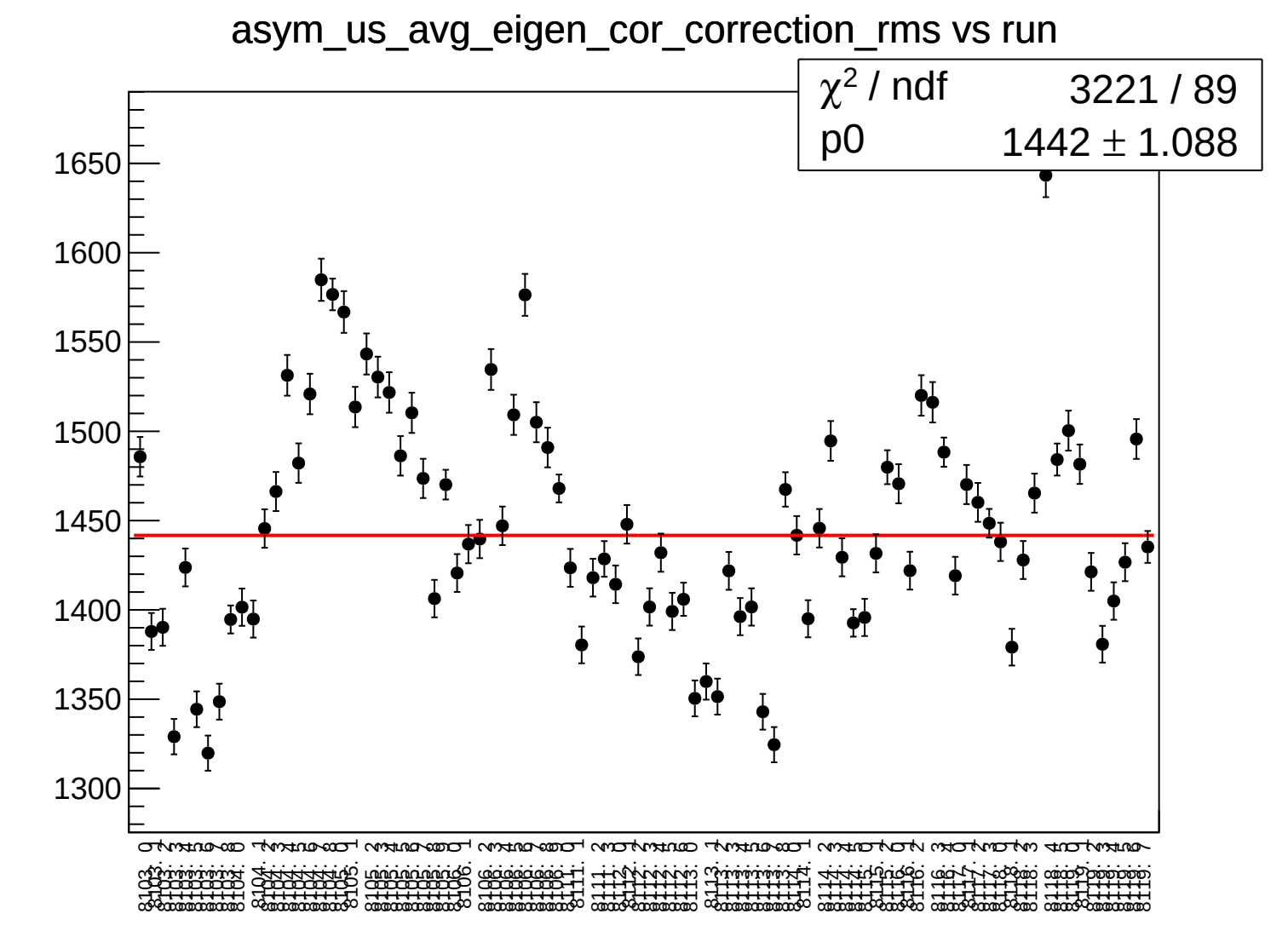

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 84.8 / 89
p0 2558 ± 798.5
pull
Entries 90
Mean 536.4
Std Dev 0

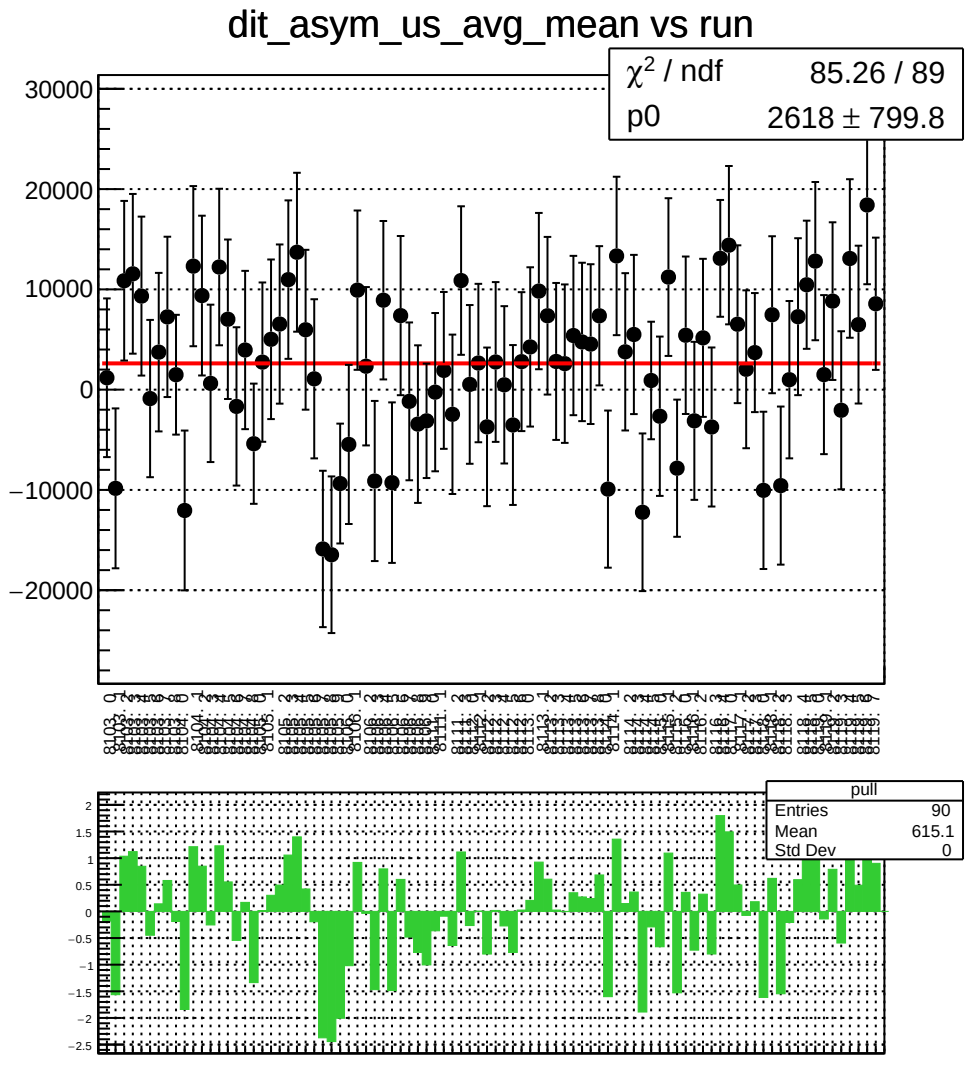

pull1D
Entries 90
Mean 0.007015
Std Dev 0.9706

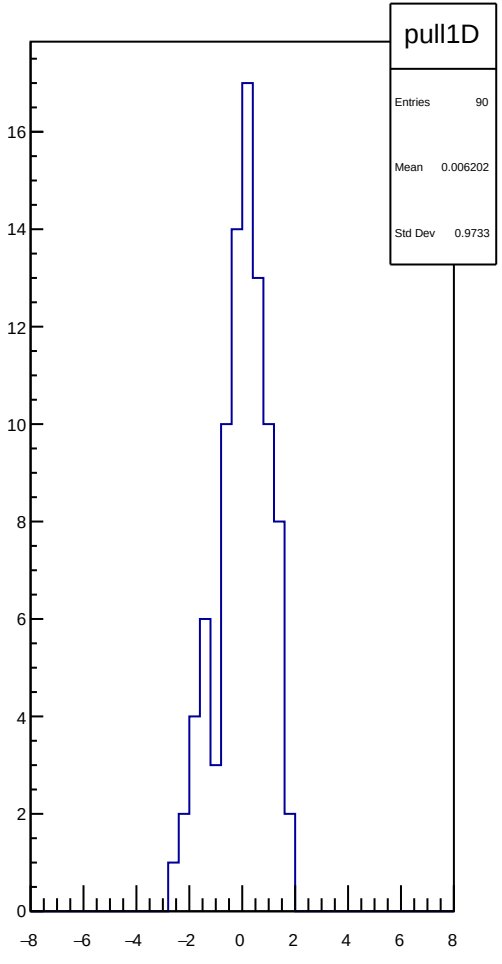

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 76.96 / 89
p0 748.8 ± 0.5647
765
760
755
750
745
740
735
730

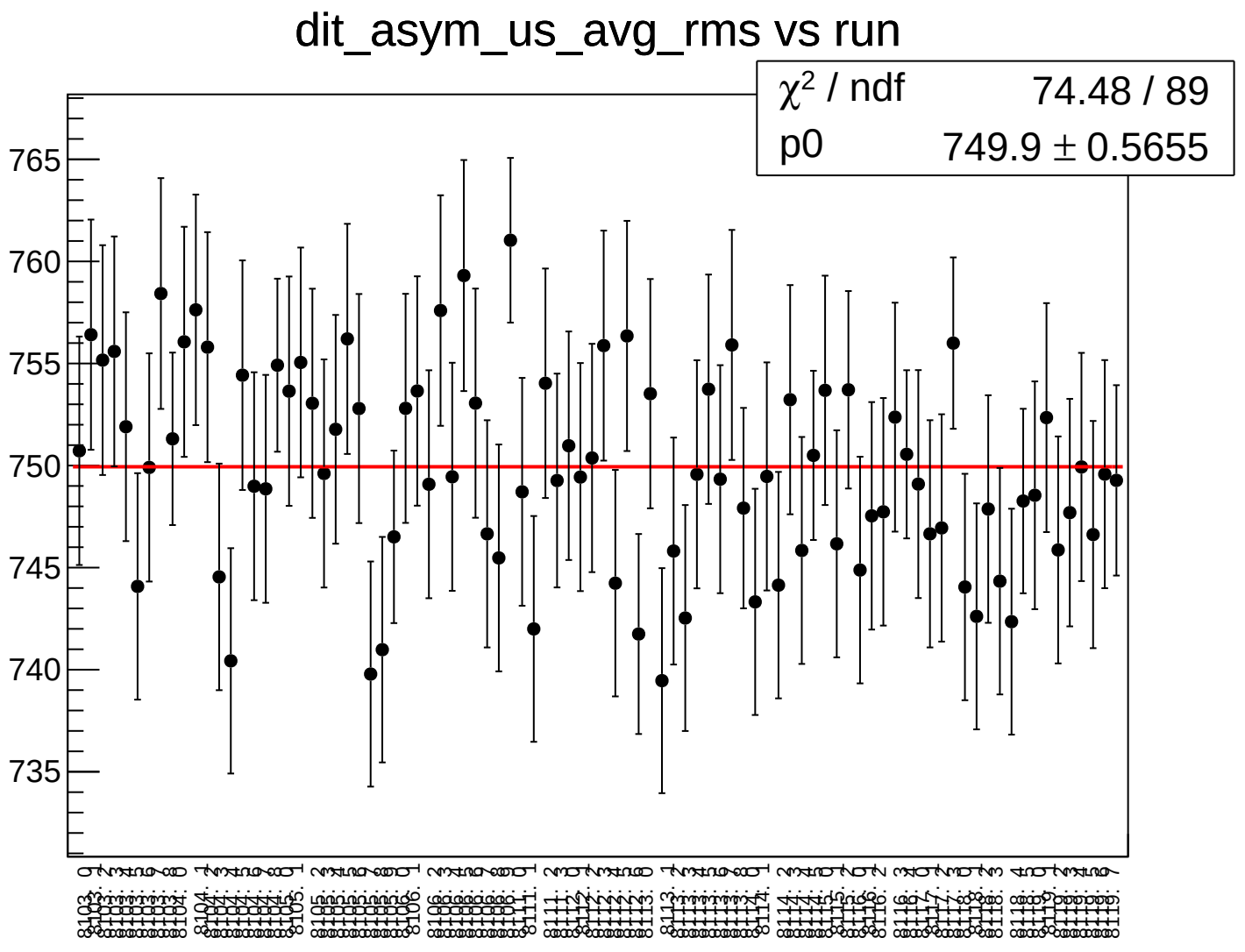

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.67 / 89
p0 1735 ± 1539
pull
Entries 90
Mean 1158
Std Dev 0

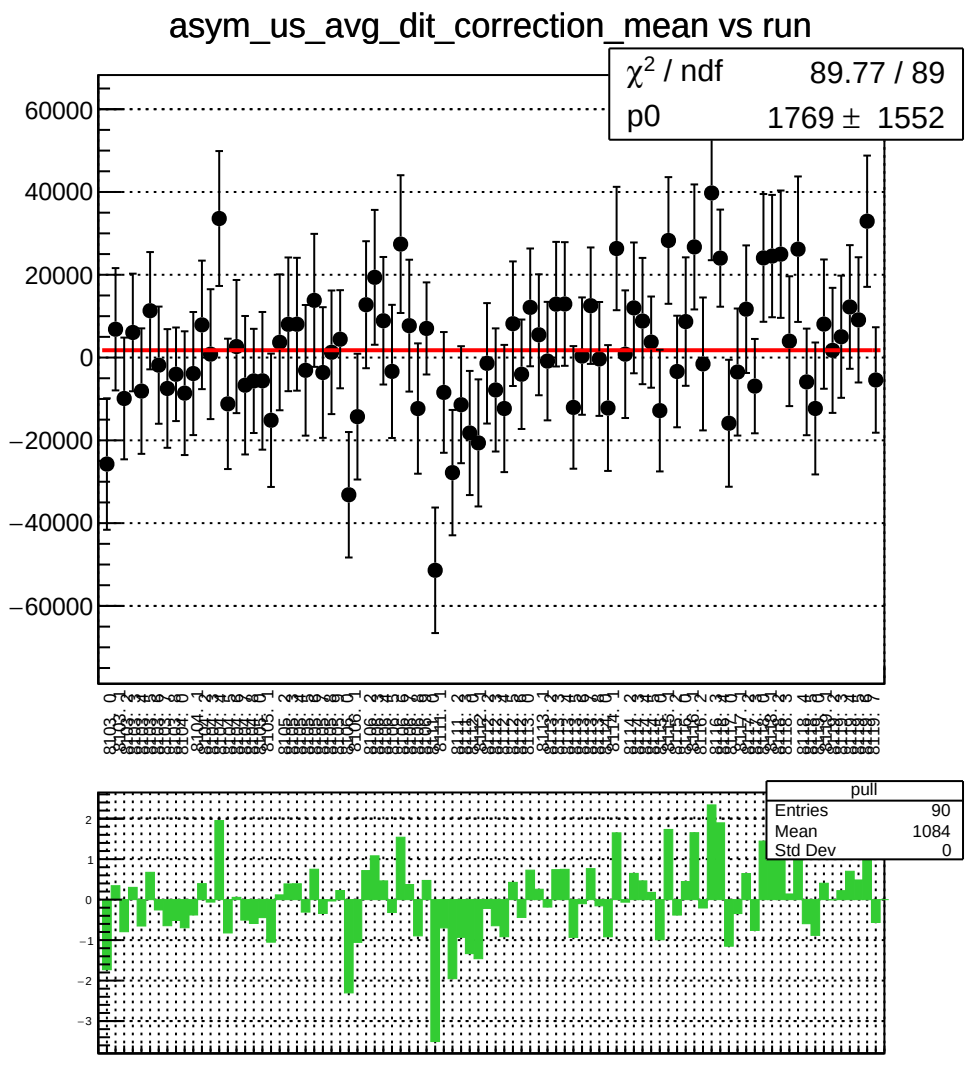

pull1D
Entries 90
Mean 0.00665
Std Dev 0.9981

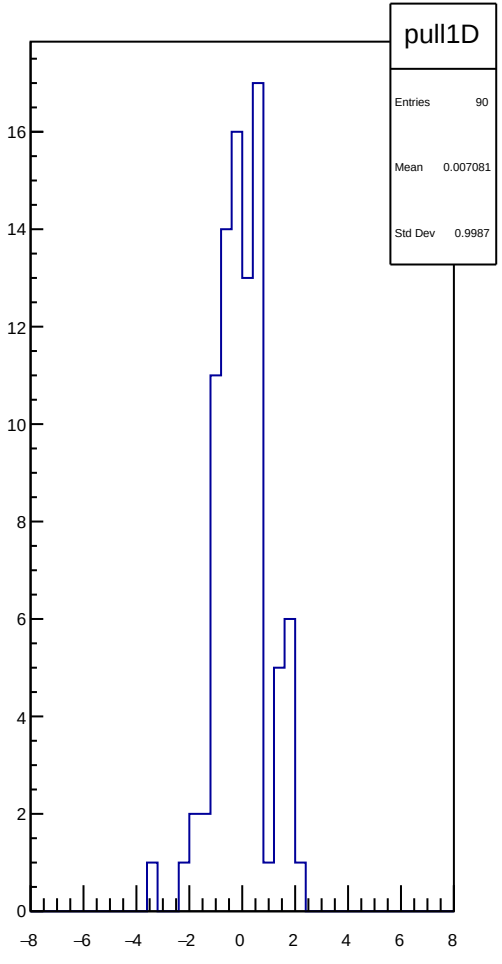

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3221 / 89
p0 1442 ± 1.088
1650
1600
1550
1500
1450
1400
1350
1300

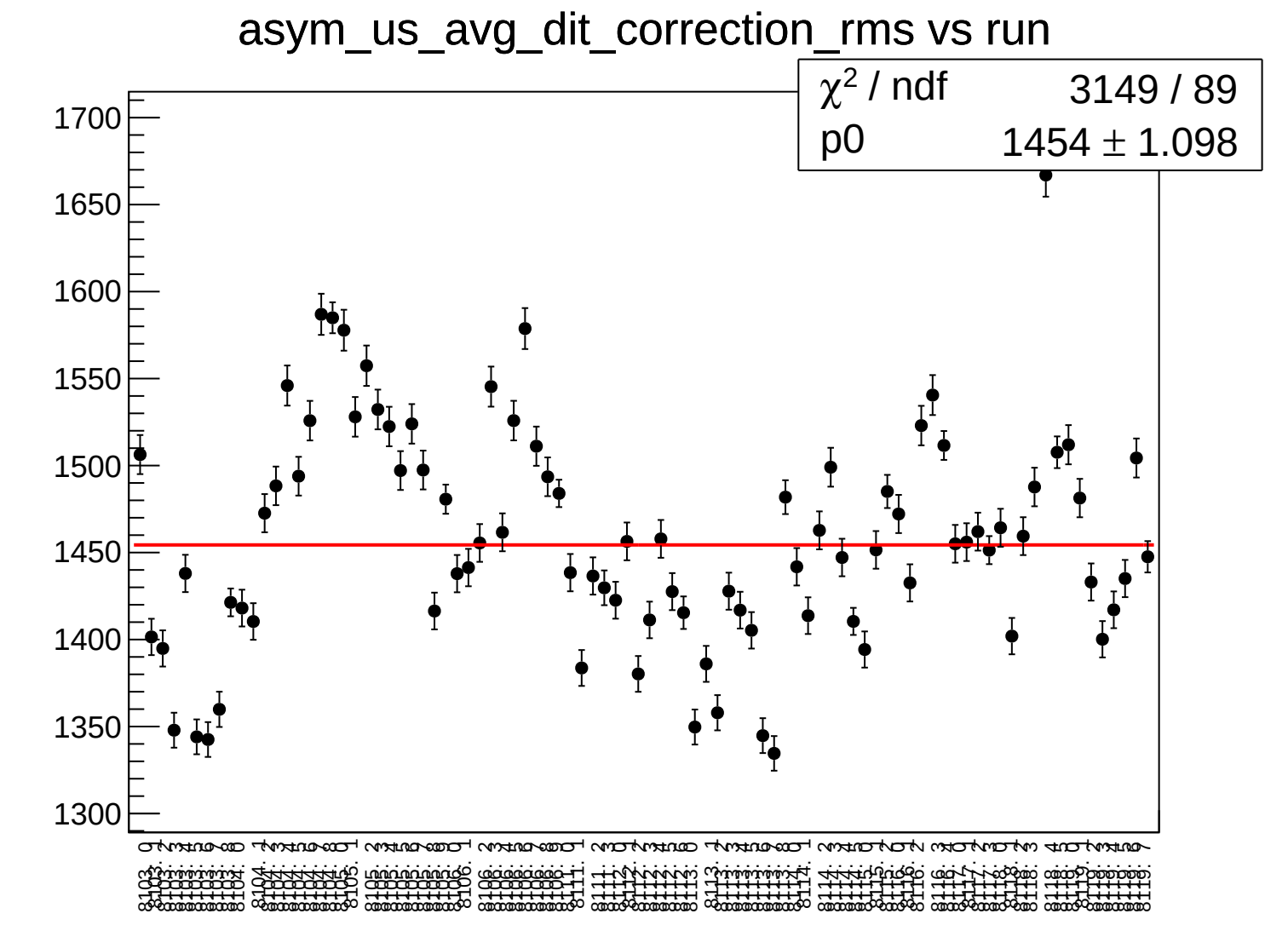

dit_asym_us_avg_mean vs run
χ² / ndf 85.26 / 89
p0 2618 ± 799.8
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 615.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

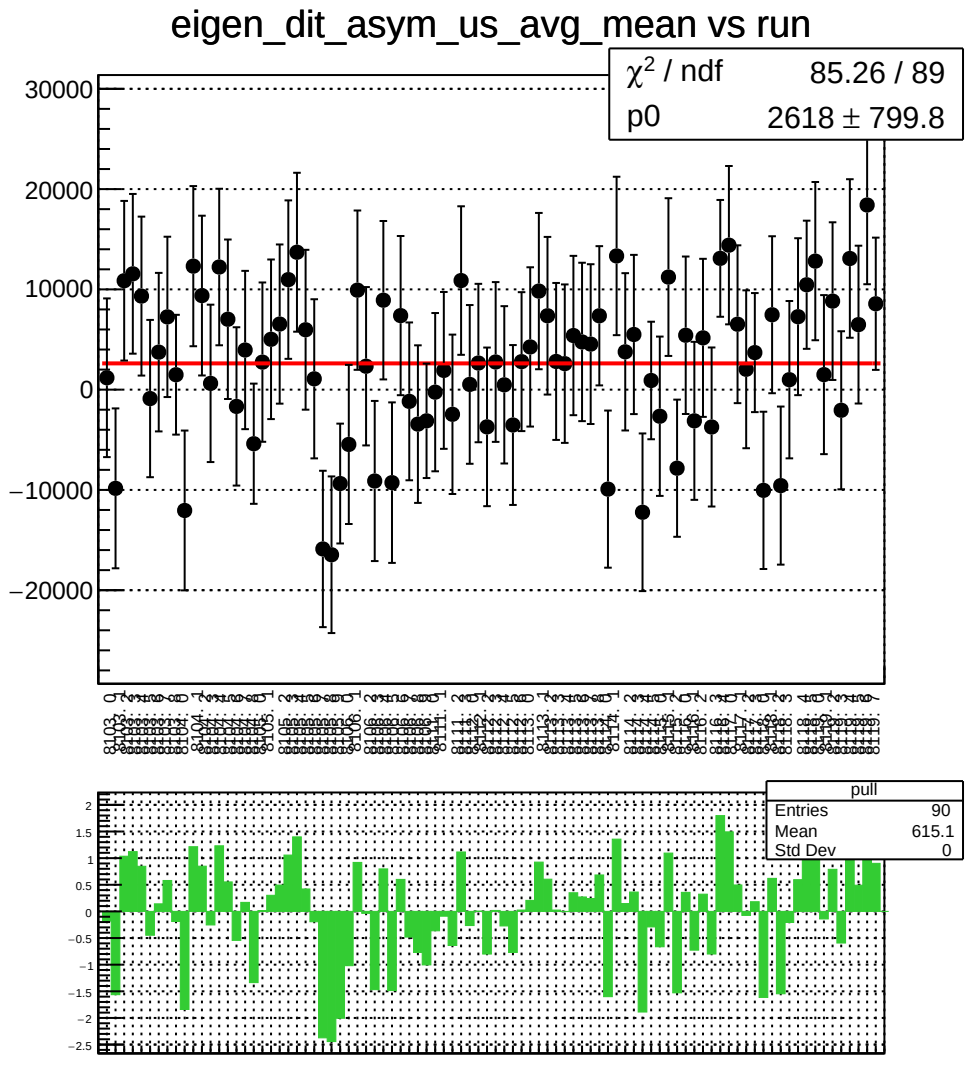

pull1D
Entries 90
Mean 0.006202
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

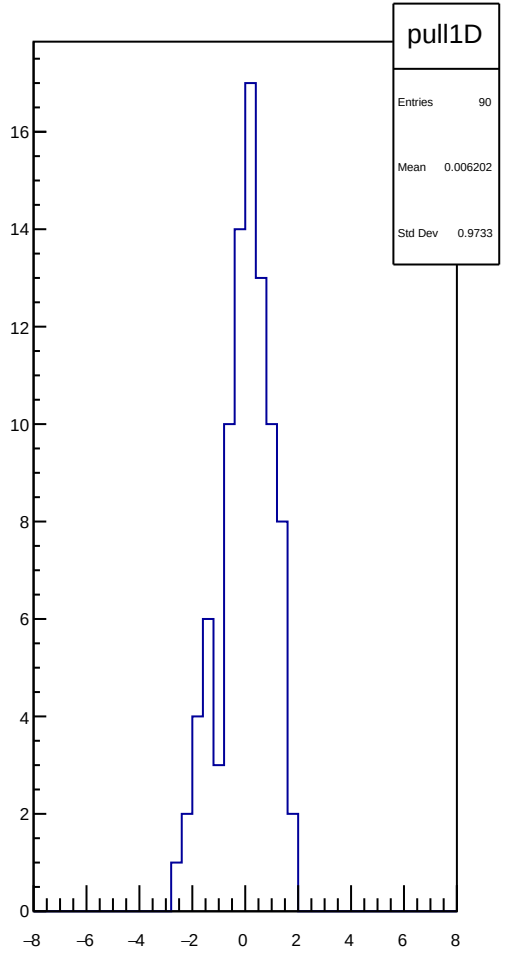

dit_asym_us_avg_rms vs run
χ² / ndf 74.48 / 89
p0 749.9 ± 0.5655
765
760
755
750
745
740
735


asym_us_avg_dit_correction_mean vs run
χ² / ndf 89.77 / 89
p0 1769 ± 1552
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1084
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.007081
Std Dev 0.9987
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 3149 / 89
p0 1454 ± 1.098
1700
1650
1600
1550
1500
1450
1400
1350
1300


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 85.26 / 89
p0 2618 ± 799.8
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 615.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.006202
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
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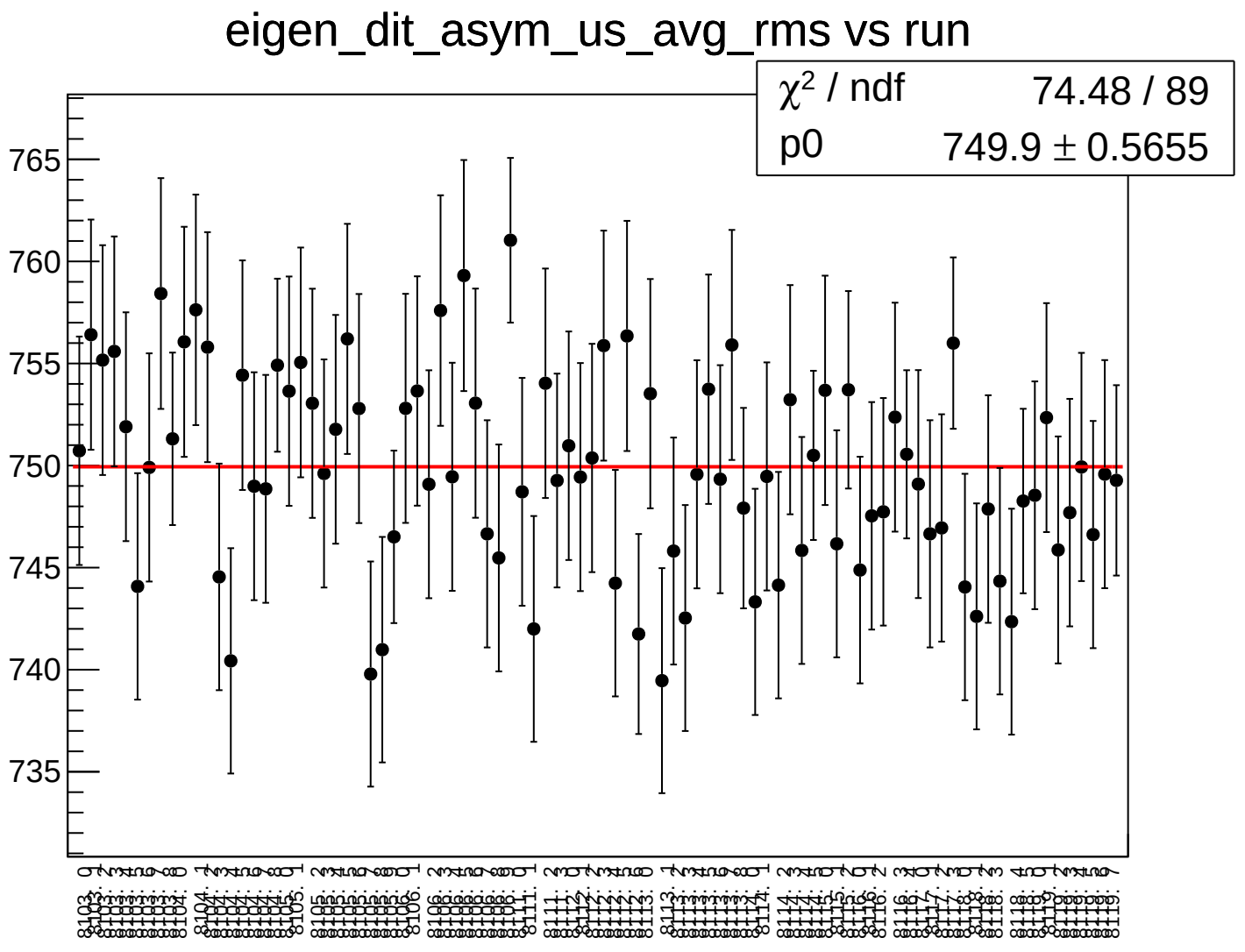
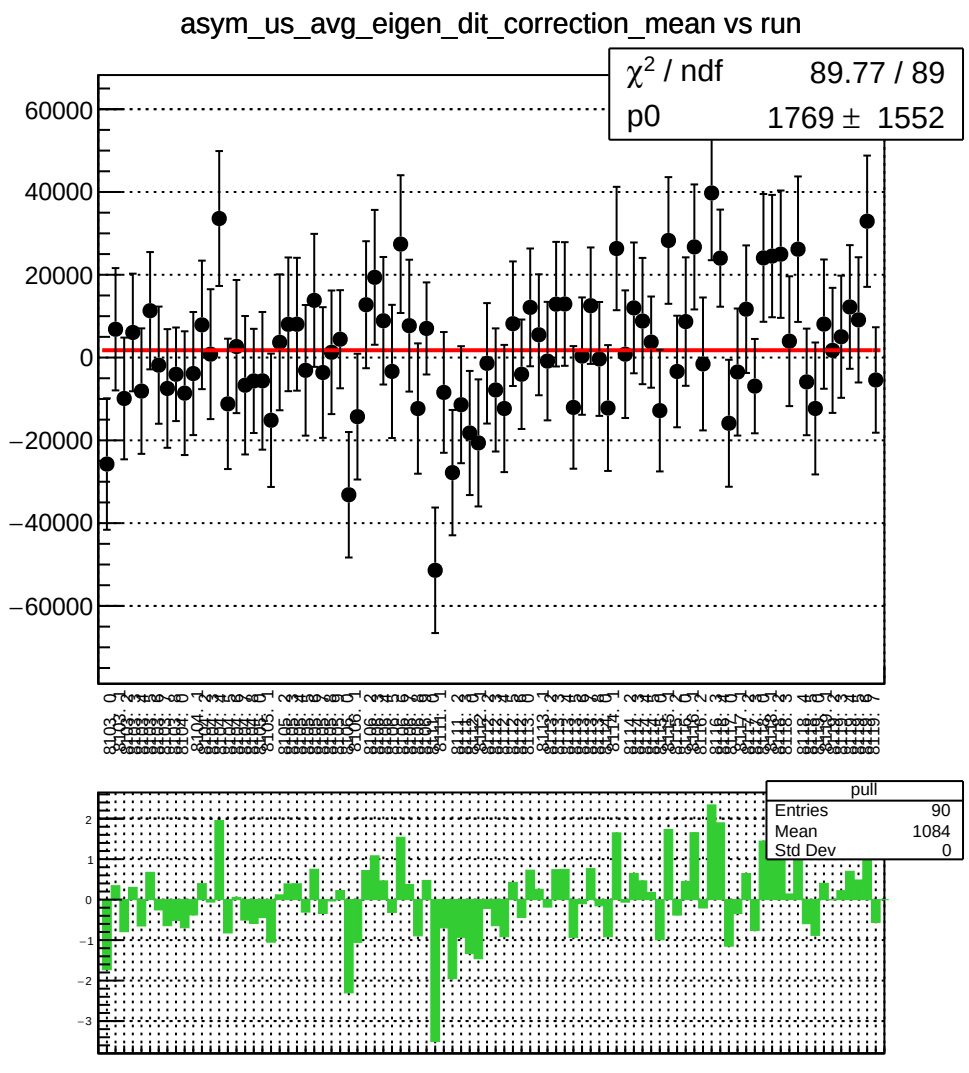
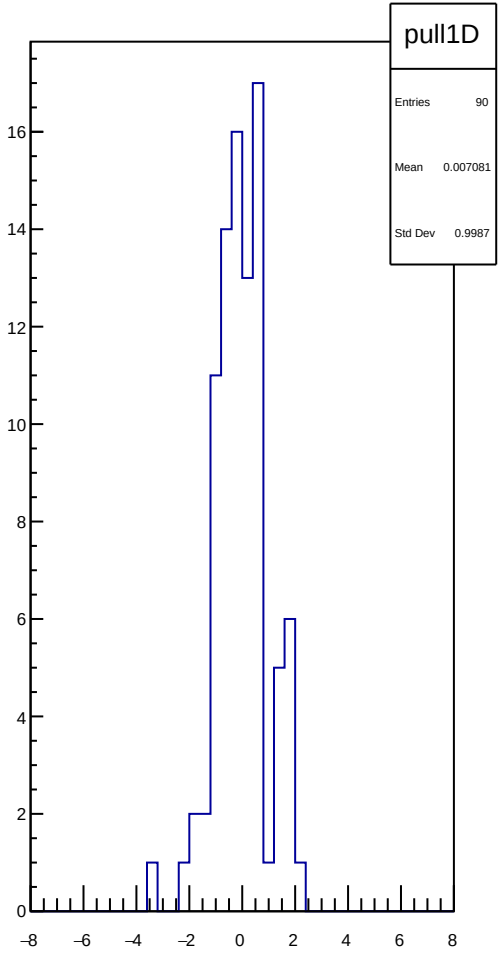
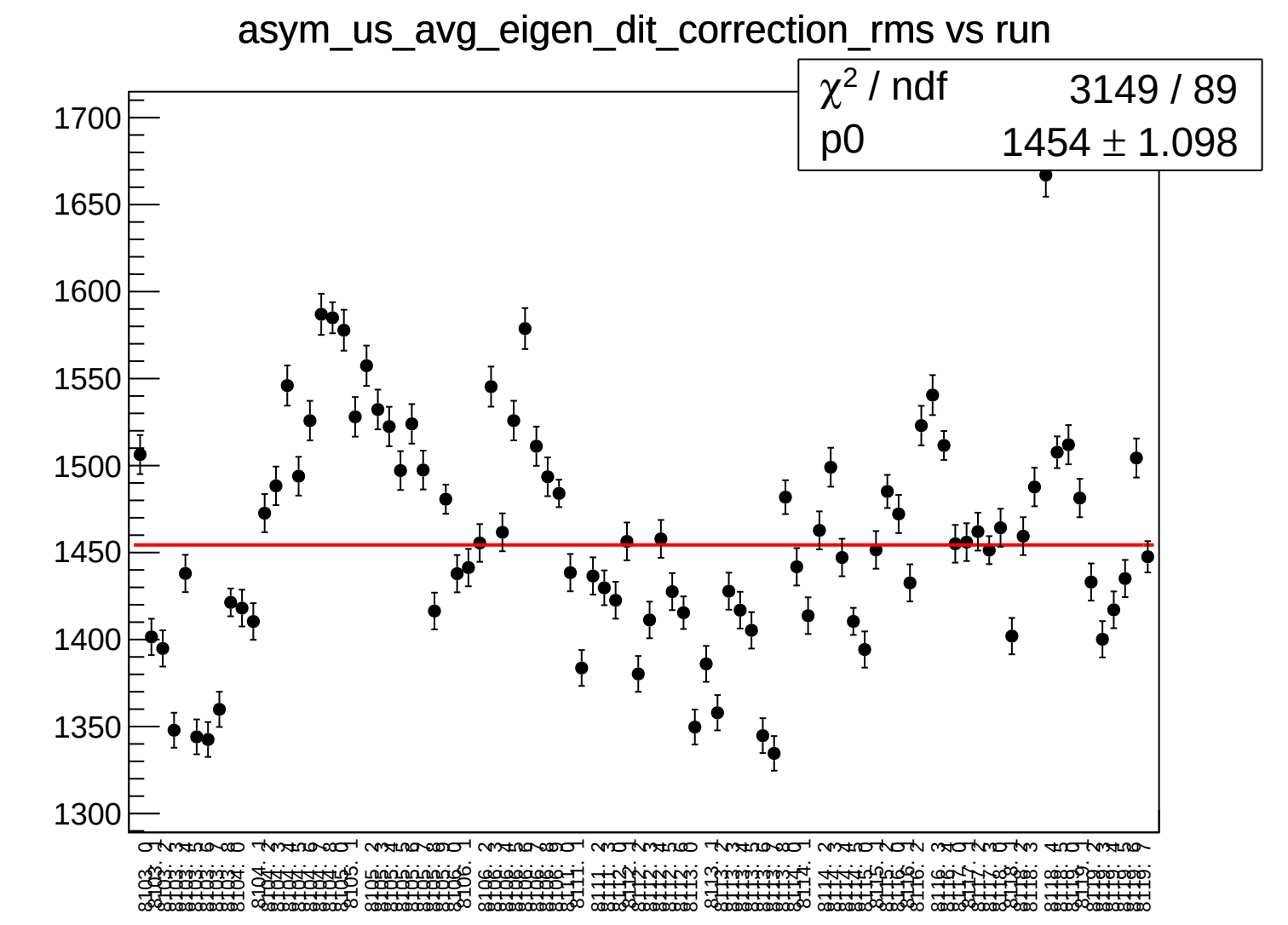
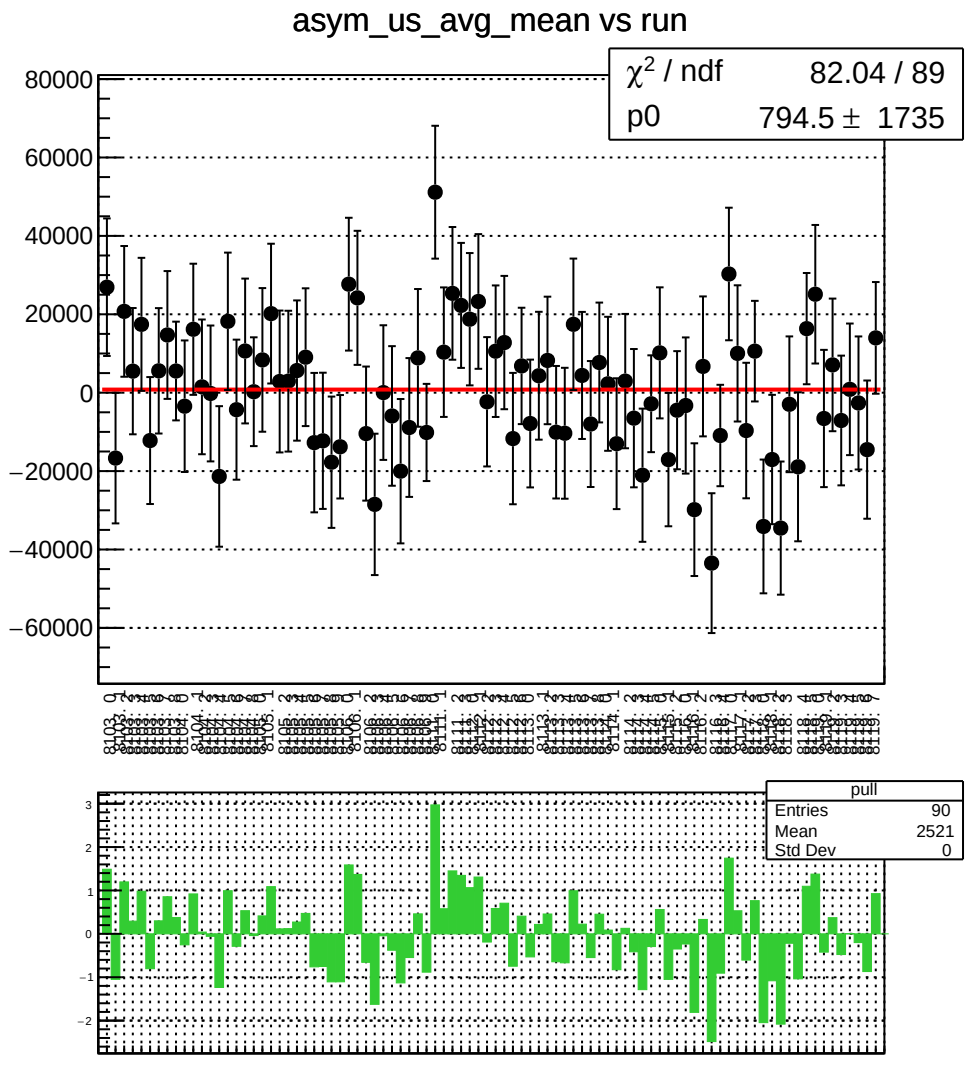
0
2
4
6
8

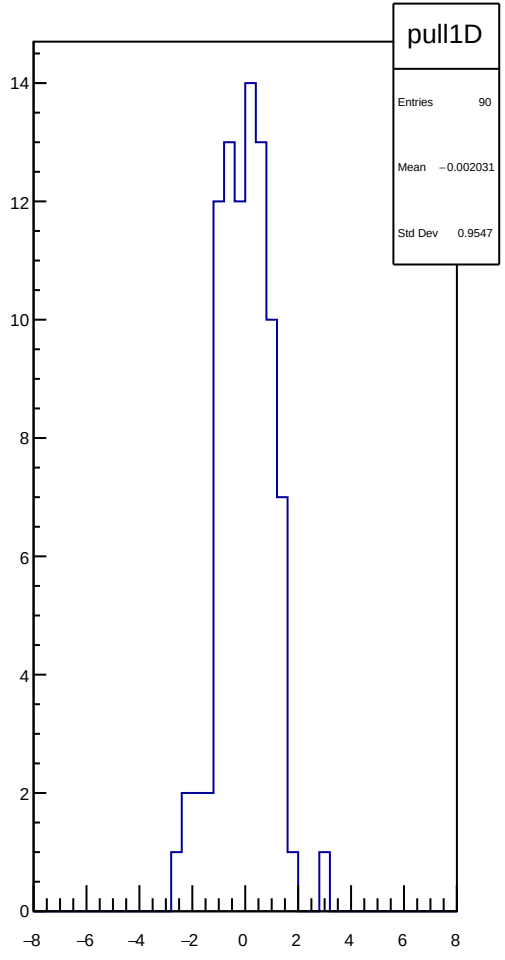

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 74.48 / 89
p0 749.9 ± 0.5655
765
760
755
750
745
740
735


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.77 / 89
p0 1769 ± 1552
pull
Entries 90
Mean 1084
Std Dev 0


pull1D
Entries 90
Mean 0.007081
Std Dev 0.9987


asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3149 / 89
p0 1454 ± 1.098
1700
1650
1600
1550
1500
1450
1400
1350
1300


asym_us_avg_mean vs run
χ² / ndf 82.04 / 89
p0 794.5 ± 1735
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 2521
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.002031
Std Dev 0.9547
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12
10
8
6
4
2
0
−8
−6
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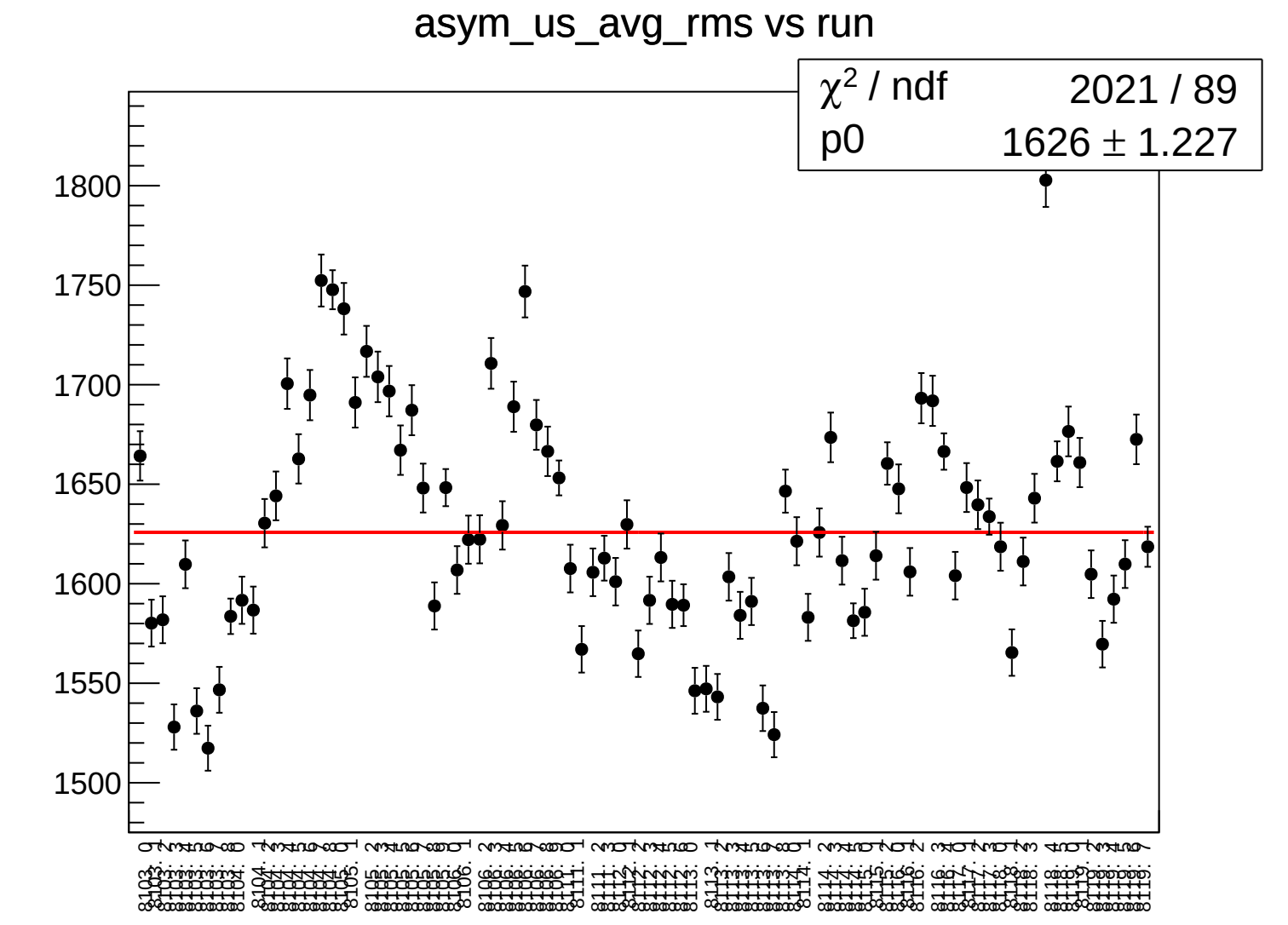
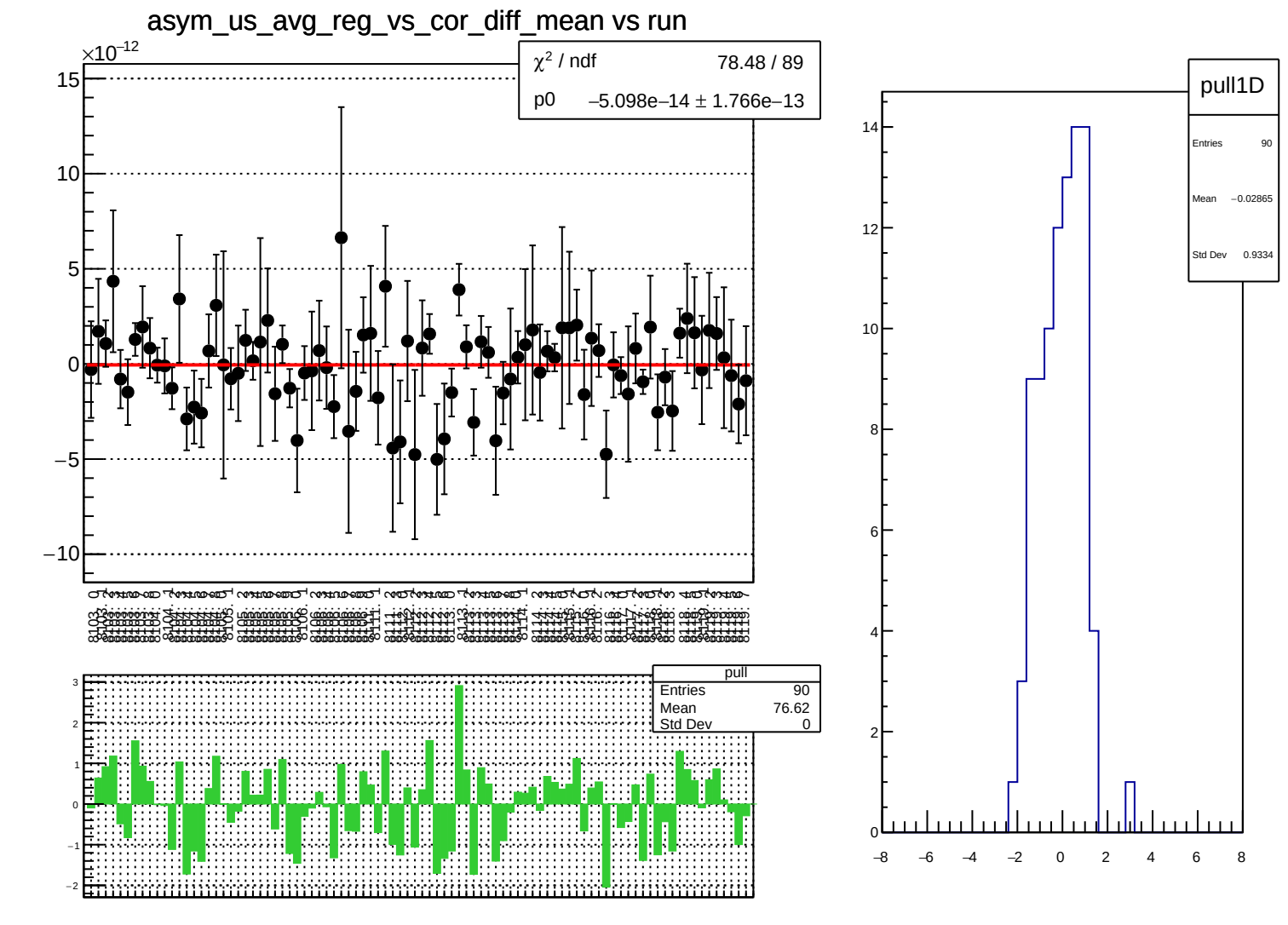
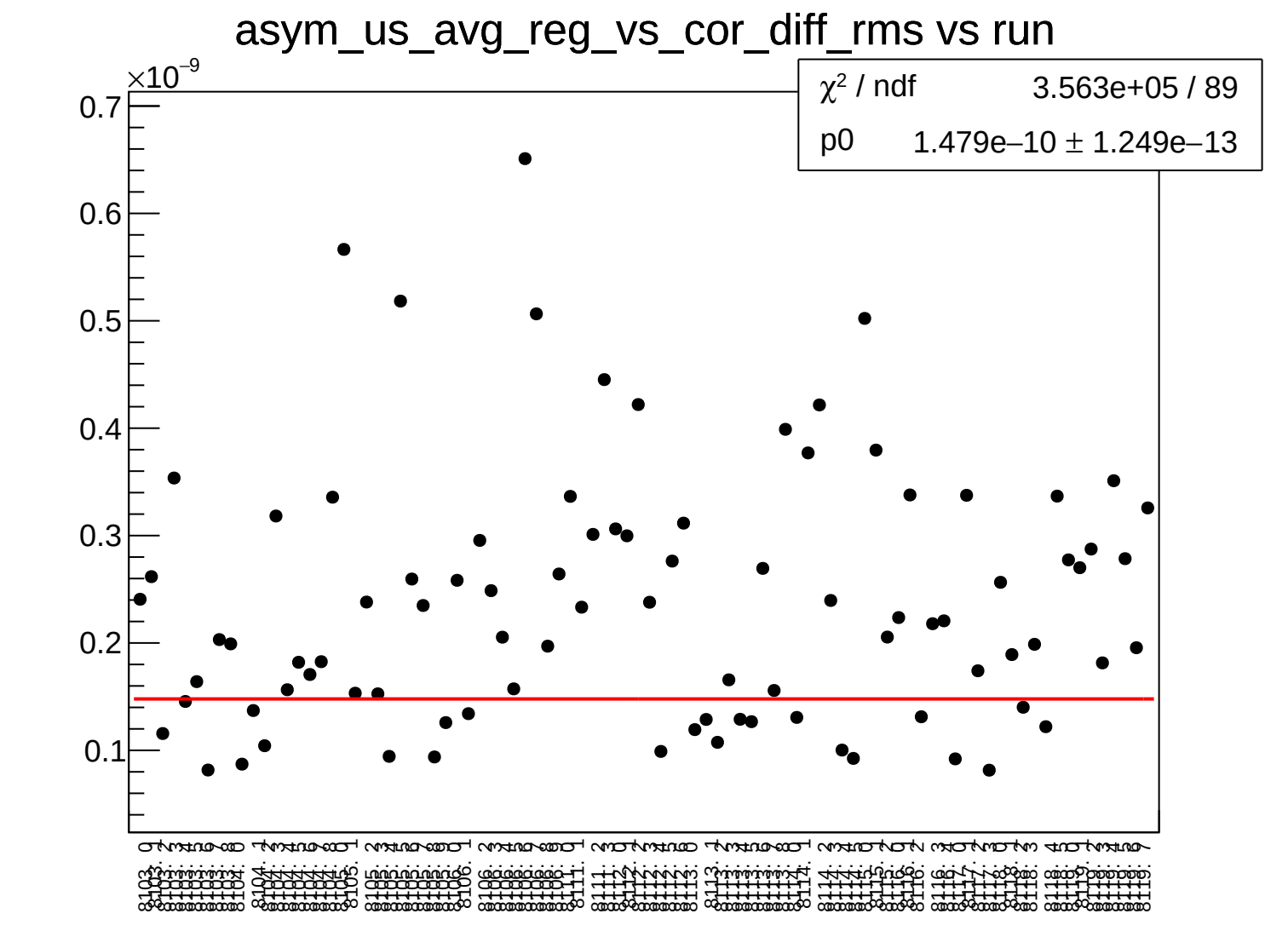
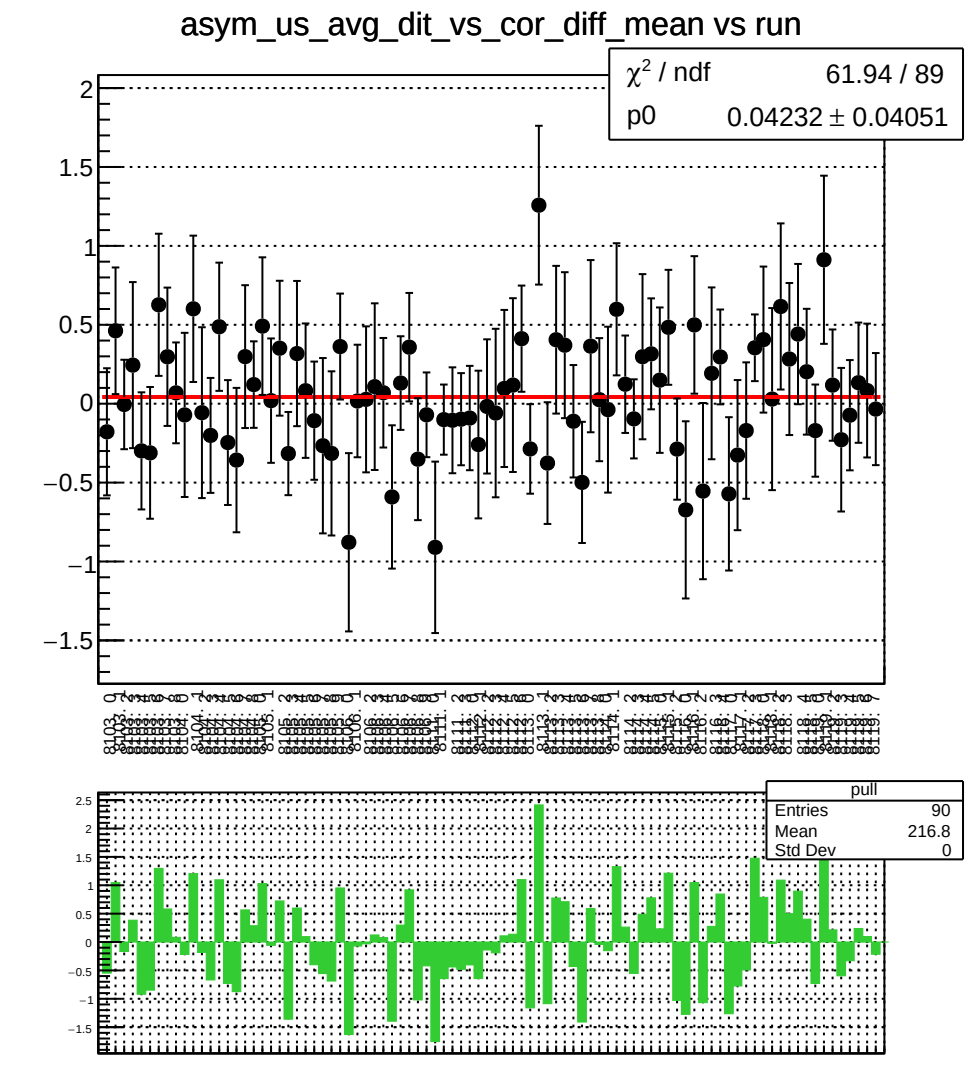
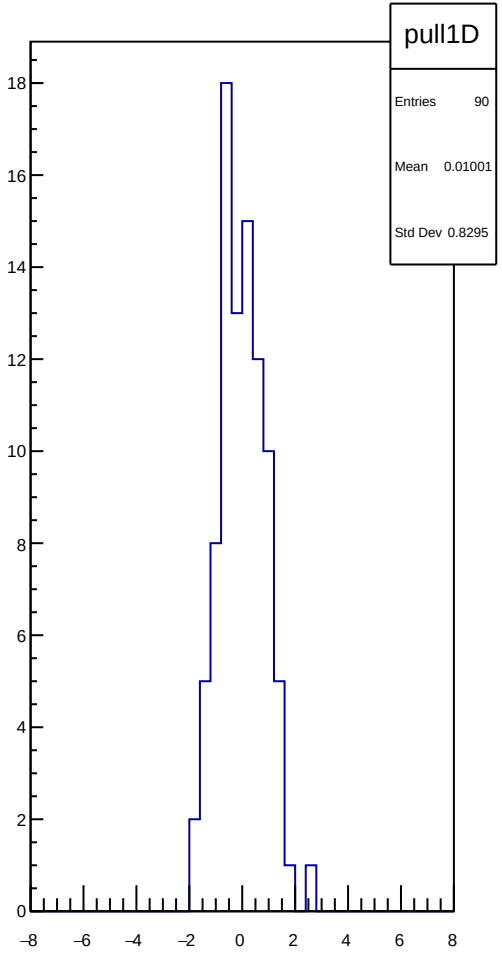
0
2
4
6
8

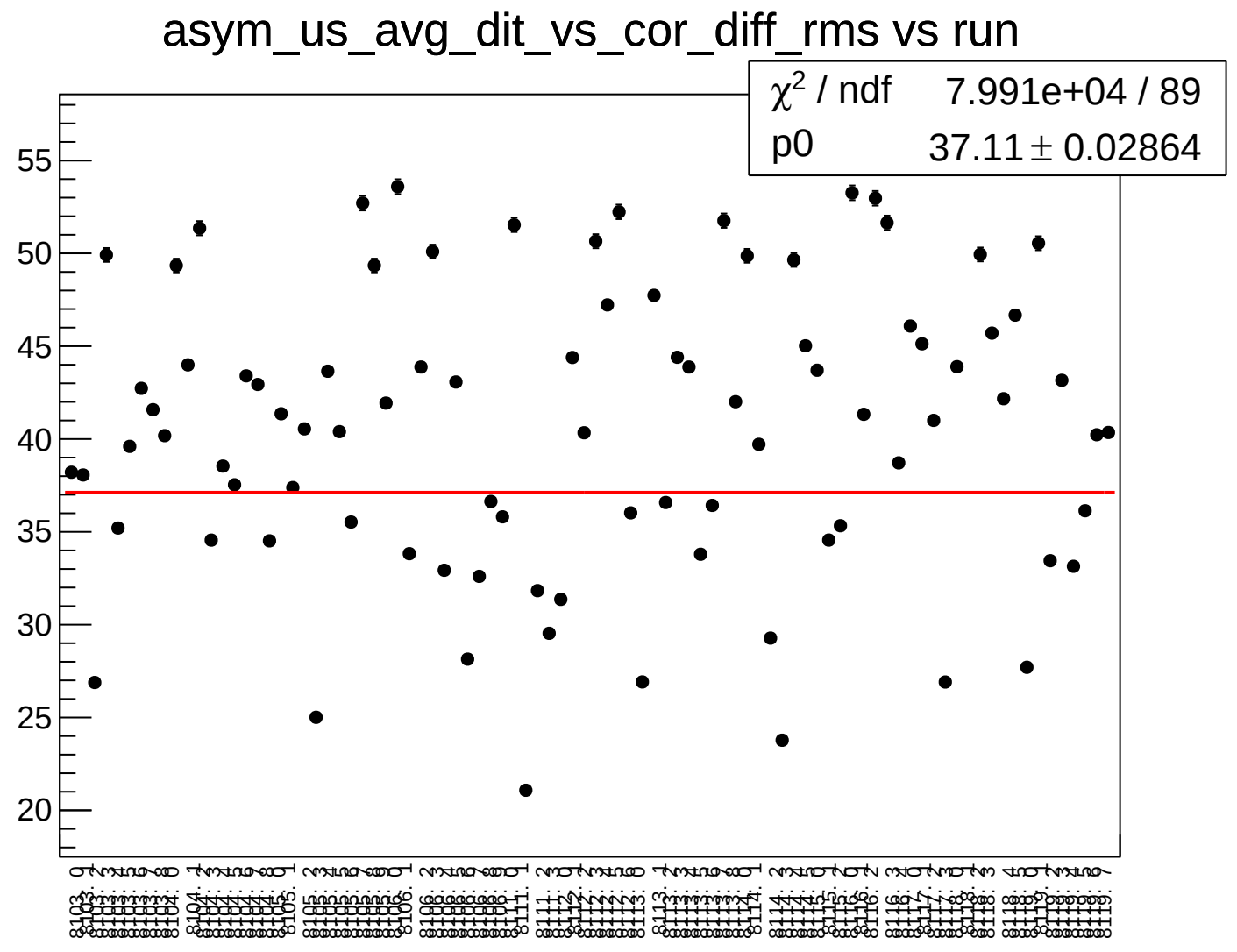

asym_us_avg_rms vs run
χ^2 / ndf 2021 / 89
p0 1626 ± 1.227
1800
1750
1700
1650
1600
1550
1500

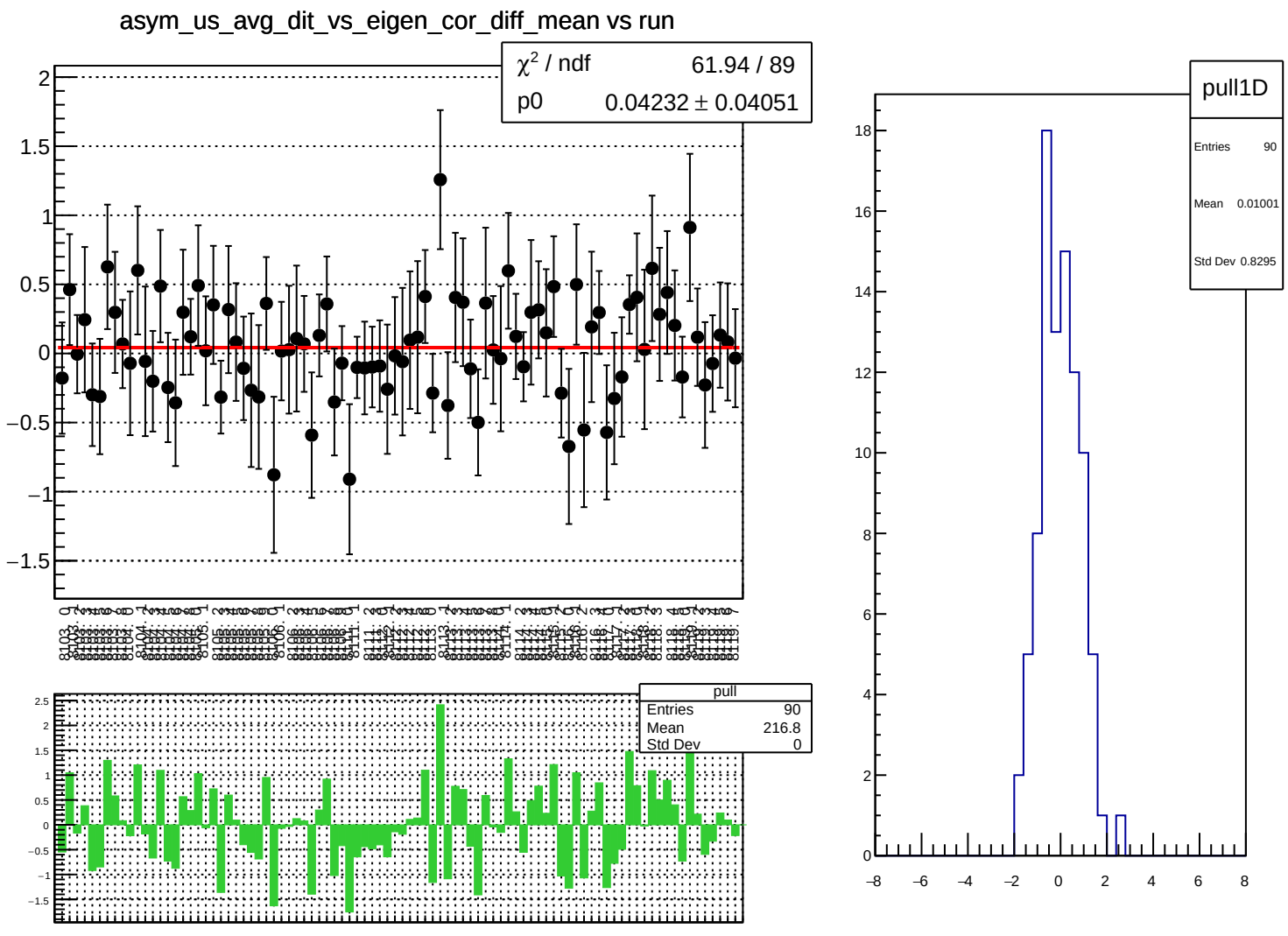

asym_us_avg_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 78.48 / 89
p0 −5.098e−14 ± 1.766e−13
pull
Entries 90
Mean 76.62
Std Dev 0
pull1D
Entries 90
Mean −0.02865
Std Dev 0.9334

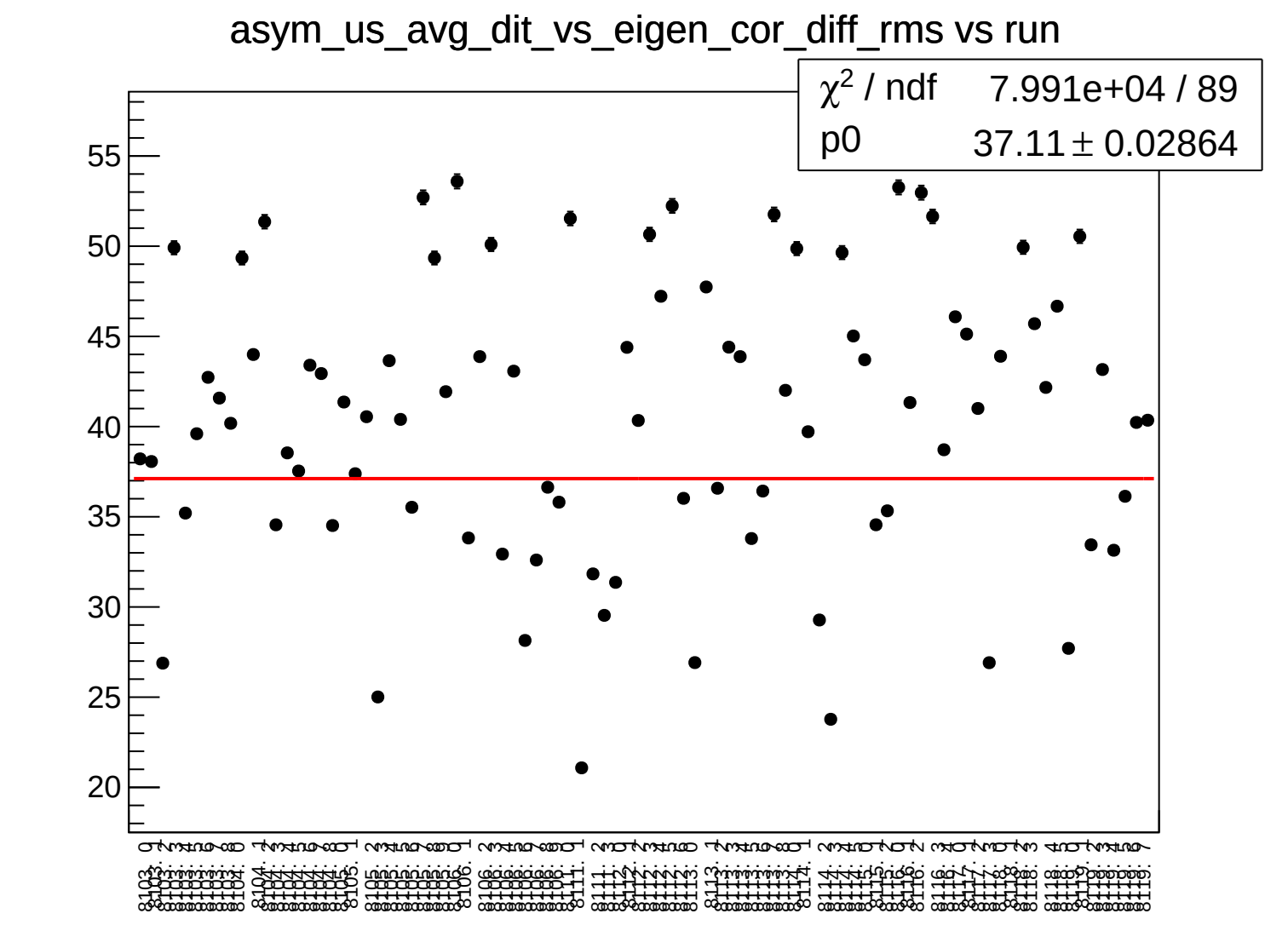

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.563e+05 / 89
p0 1.479e−10 ± 1.249e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

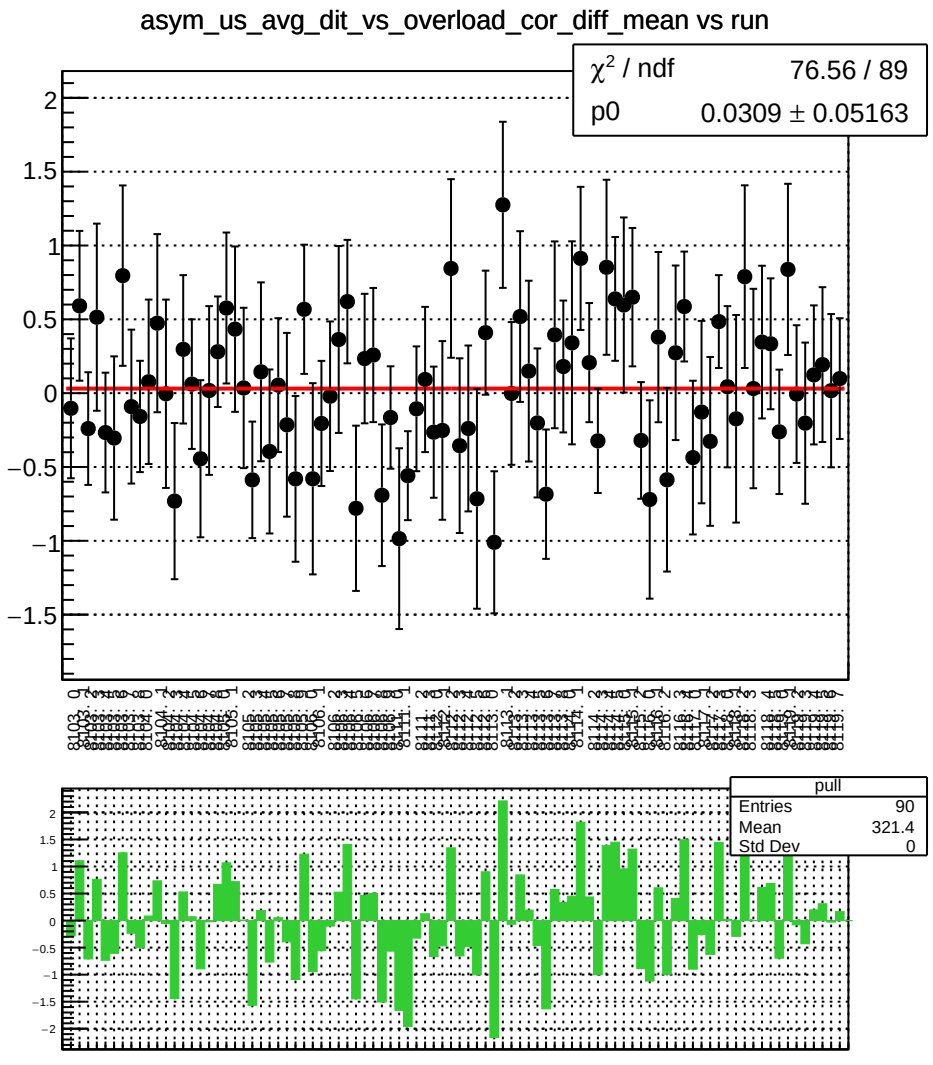

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 61.94 / 89
p0 0.04232 ± 0.04051
pull
Entries 90
Mean 216.8
Std Dev 0

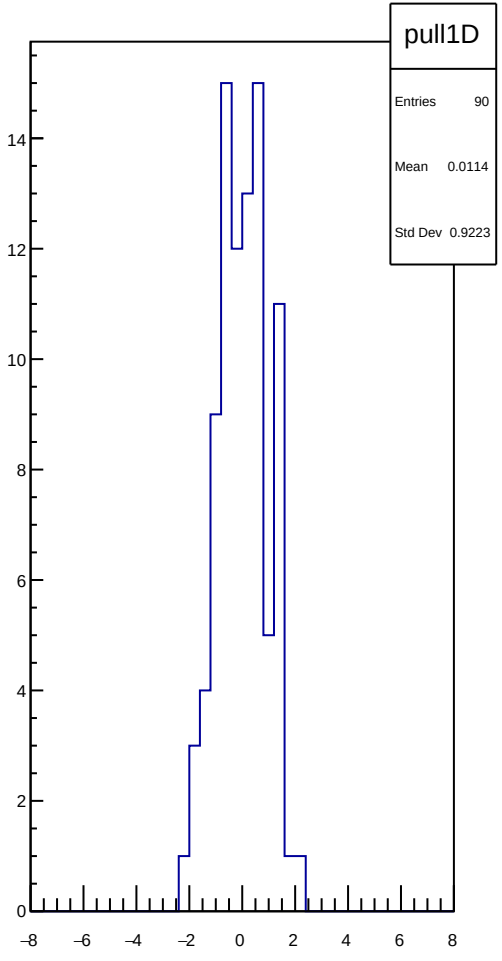

pull1D
Entries 90
Mean 0.01001
Std Dev 0.8295

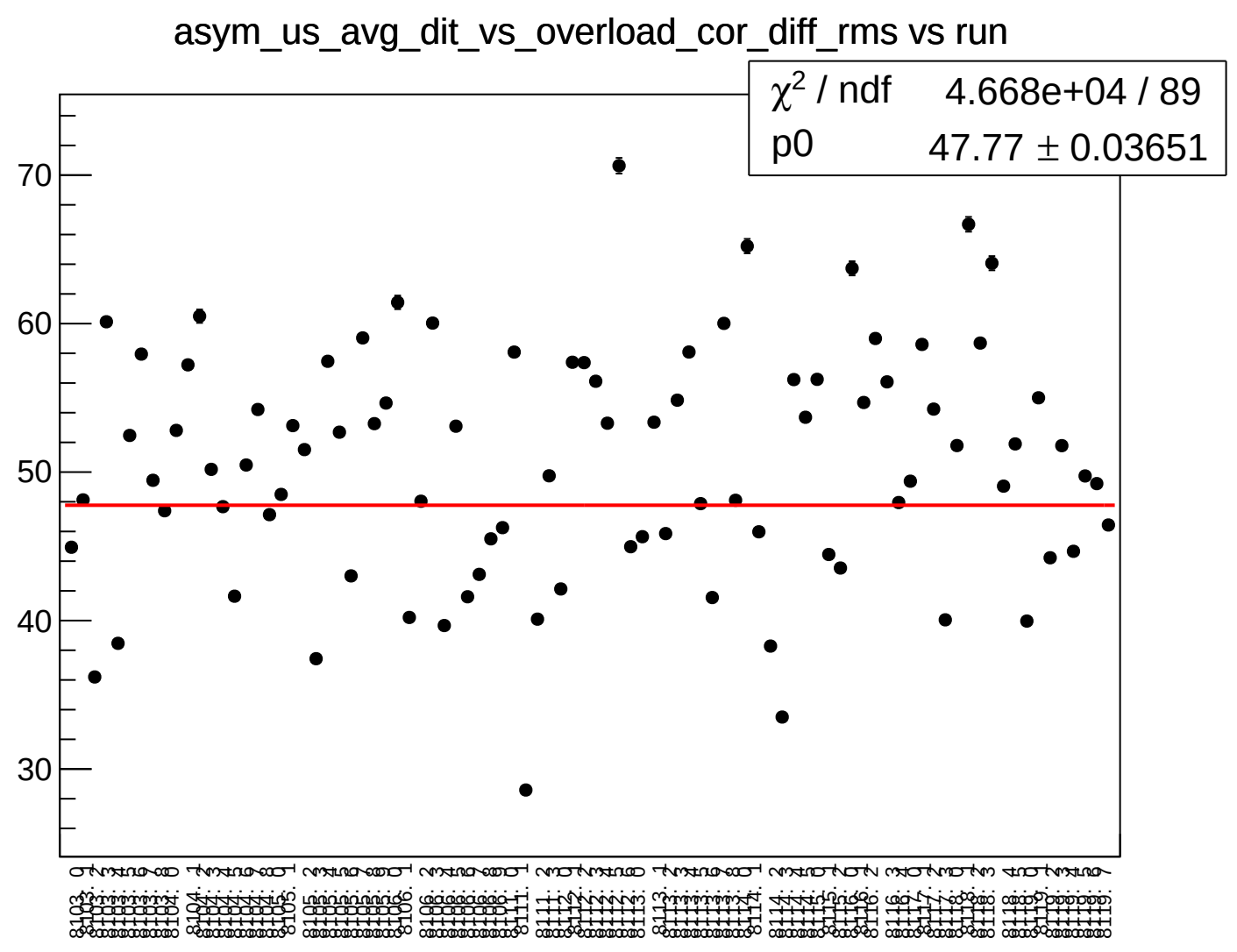

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.991e+04 / 89
p0 37.11 ± 0.02864
55
50
45
40
35
30
25
20

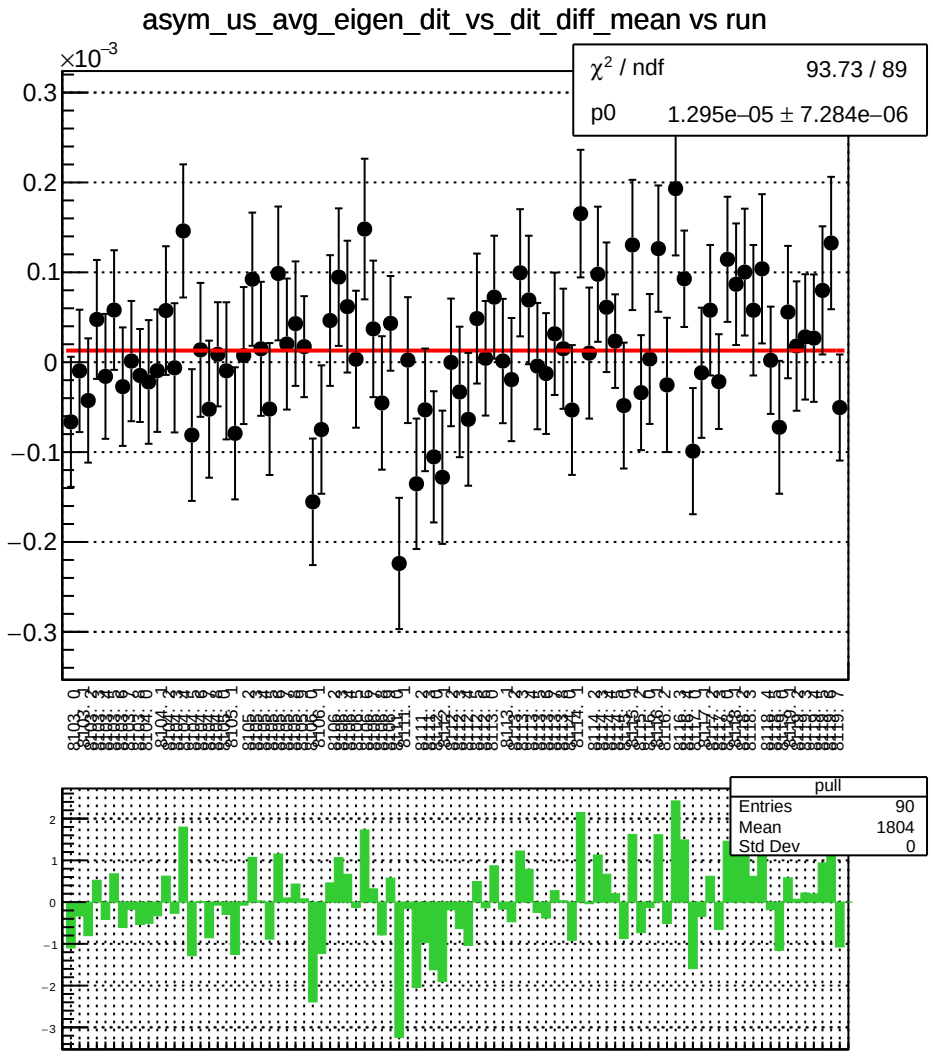

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.94 / 89
p0 0.04232 ± 0.04051
pull
Entries 90
Mean 216.8
Std Dev 0
pull1D
Entries 90
Mean 0.01001
Std Dev 0.8295

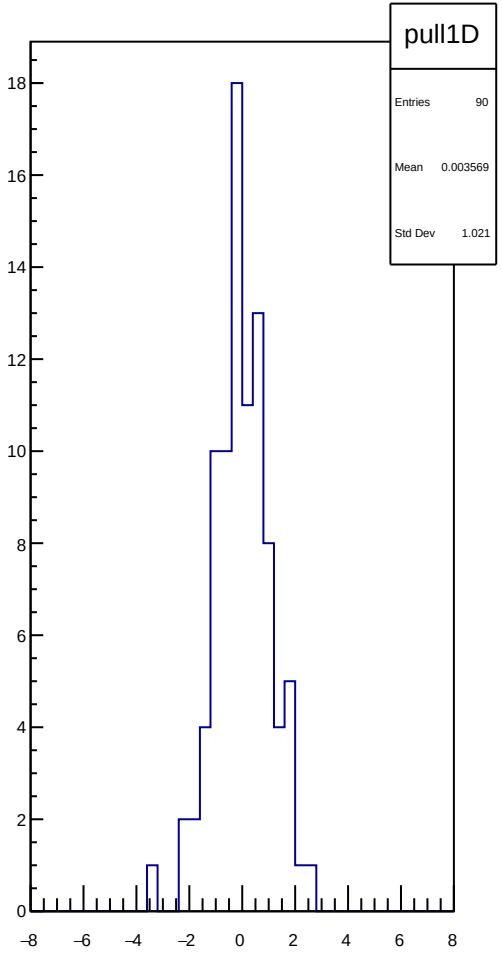

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.991e+04 / 89
p0 37.11 ± 0.02864
55
50
45
40
35
30
25
20

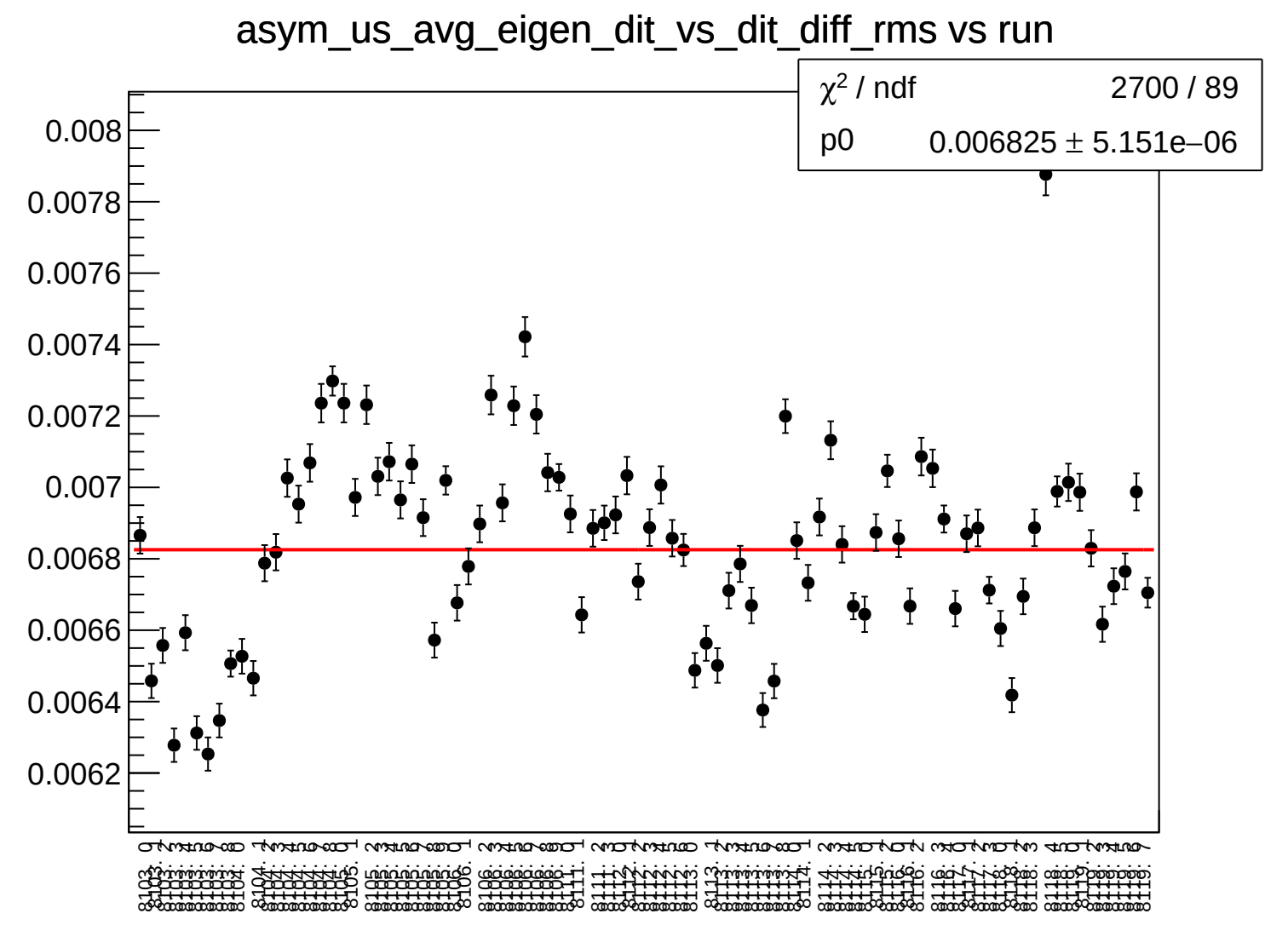

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 76.56 / 89
p0 0.0309 ± 0.05163
pull
Entries 90
Mean 321.4
Std Dev 0

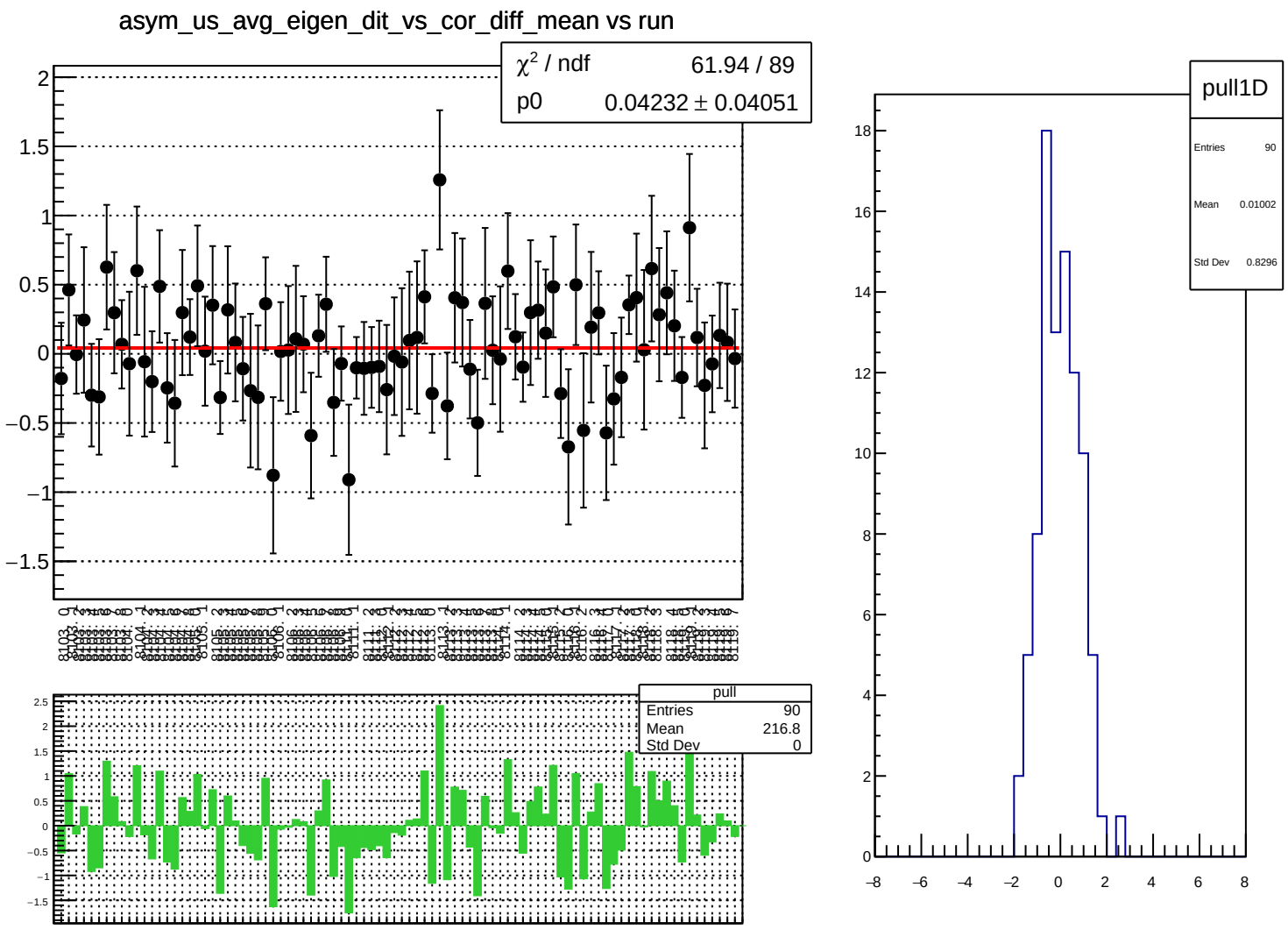

pull1D
Entries 90
Mean 0.0114
Std Dev 0.9223

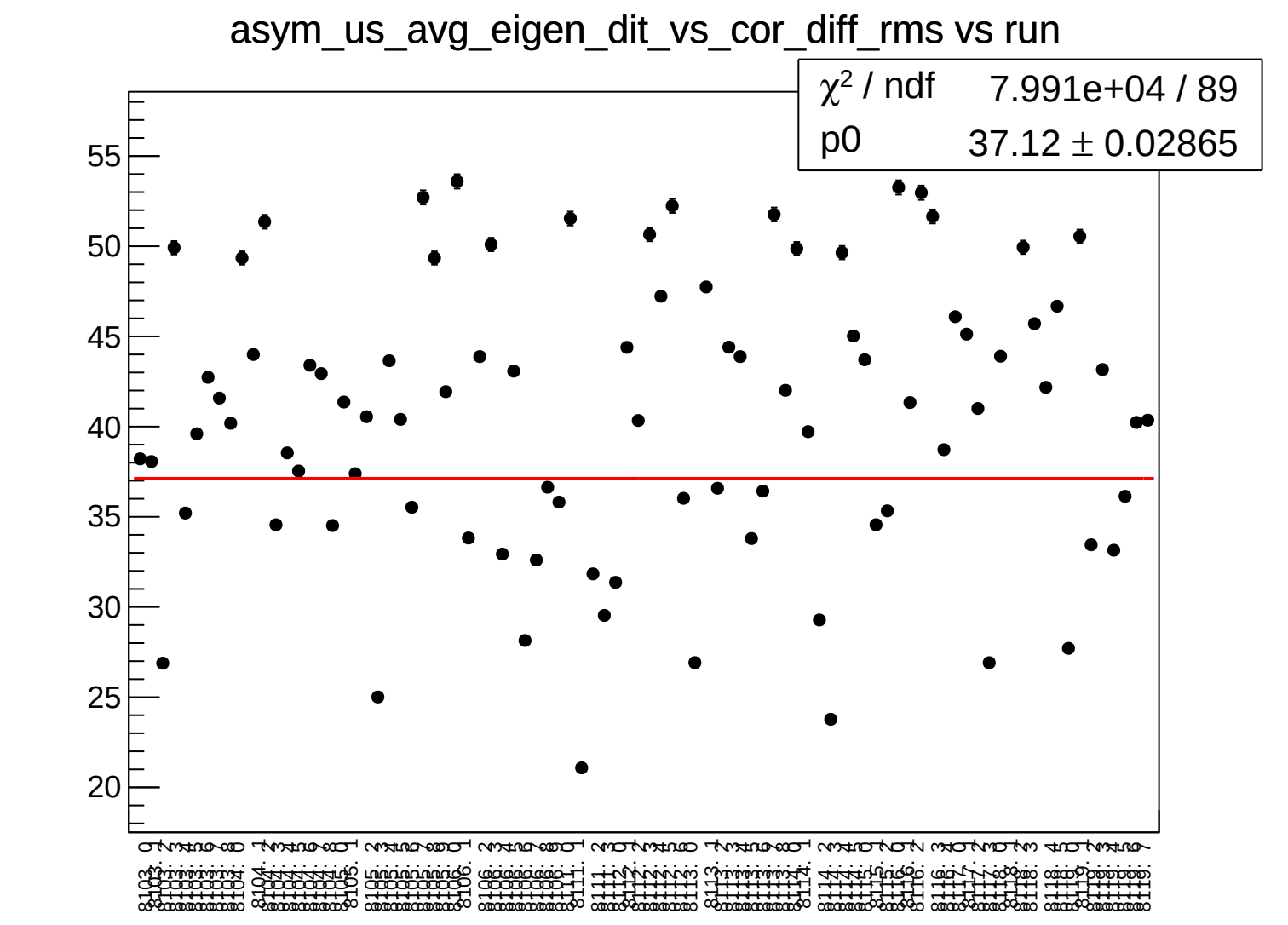

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.668e+04 / 89
p0 47.77 ± 0.03651
70
60
50
40
30

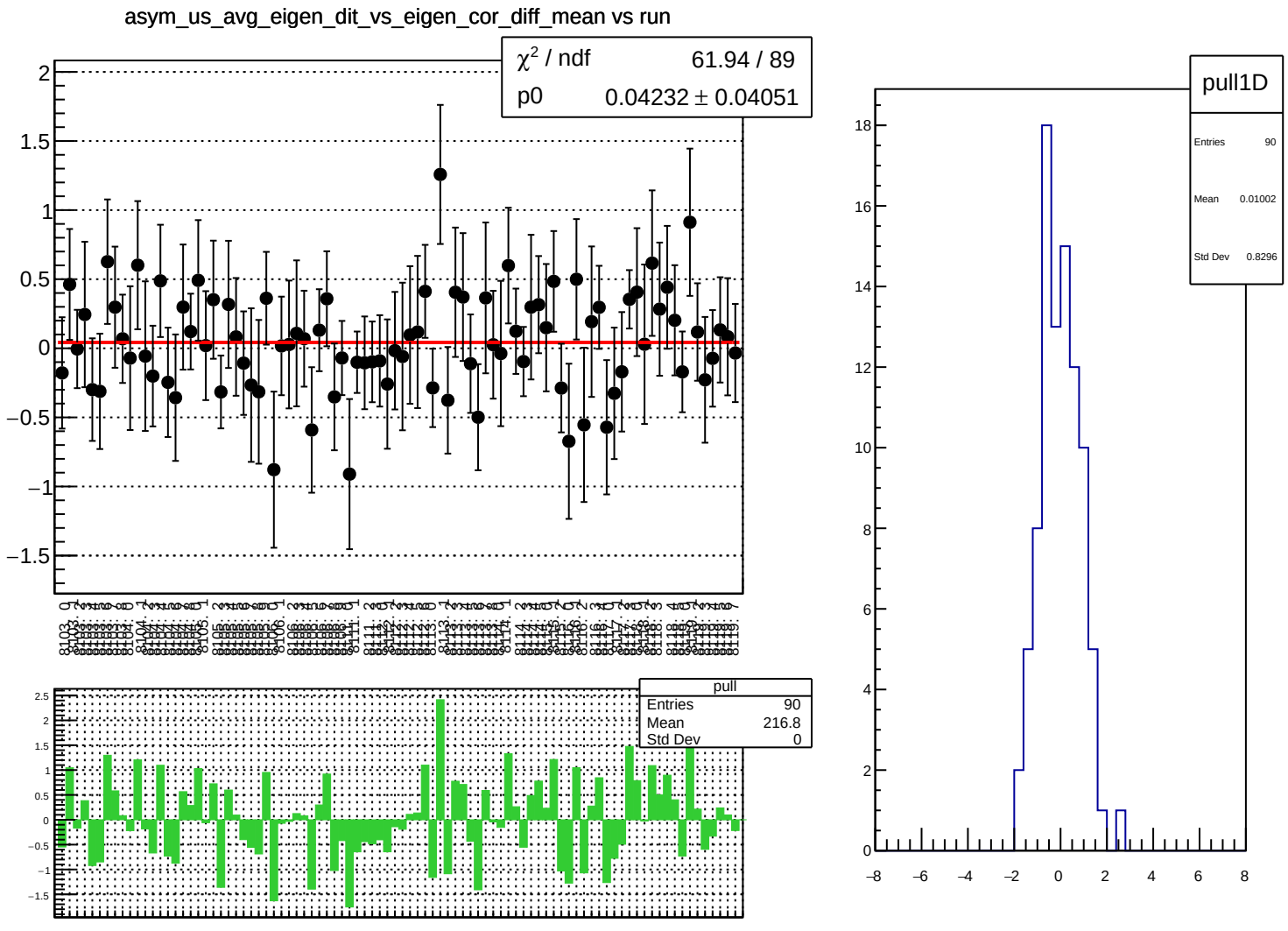

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.73 / 89
p0 1.295e−05 ± 7.284e−06
pull
Entries 90
Mean 1804
Std Dev 0

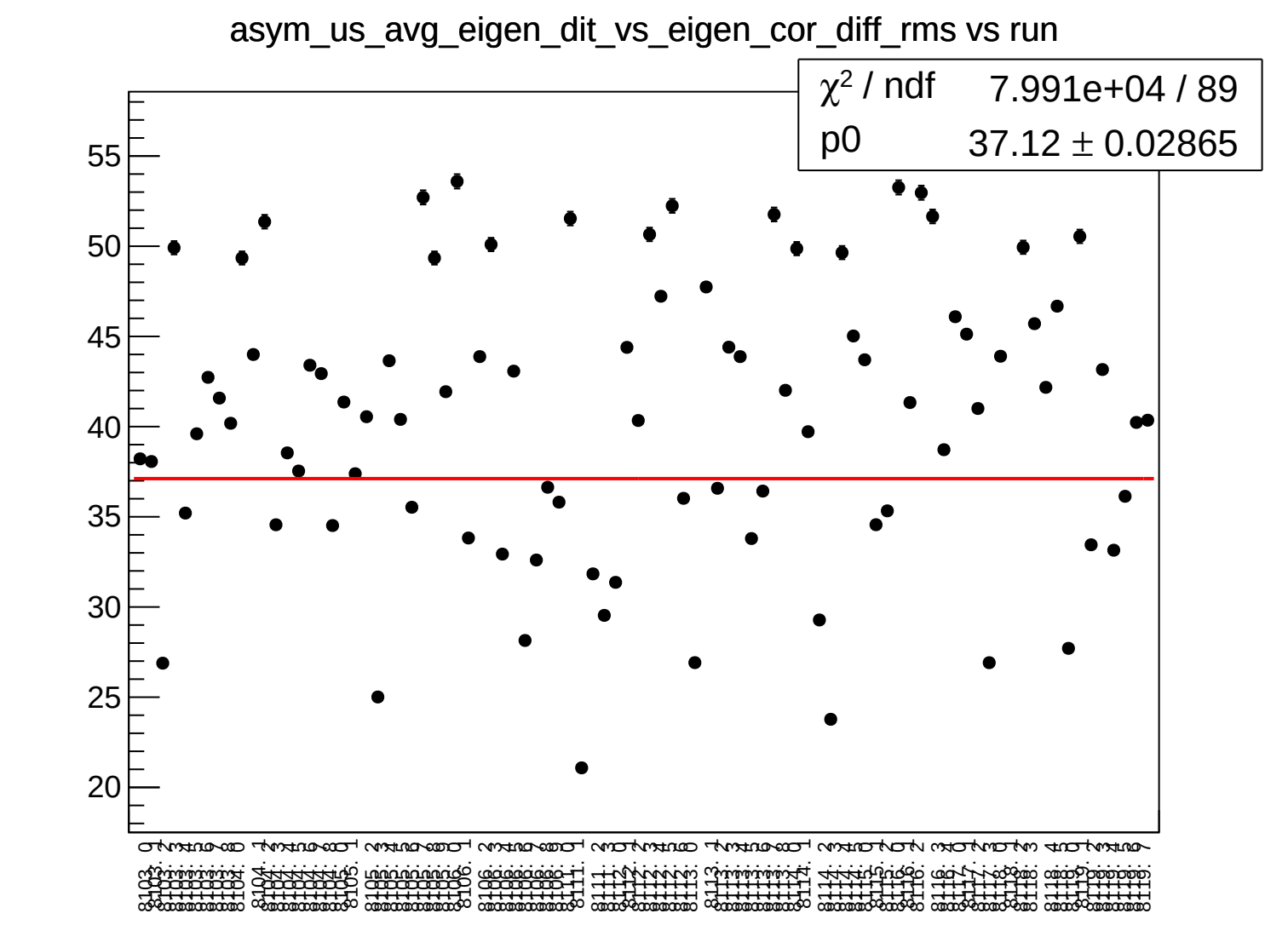

pull1D
Entries 90
Mean 0.003569
Std Dev 1.021

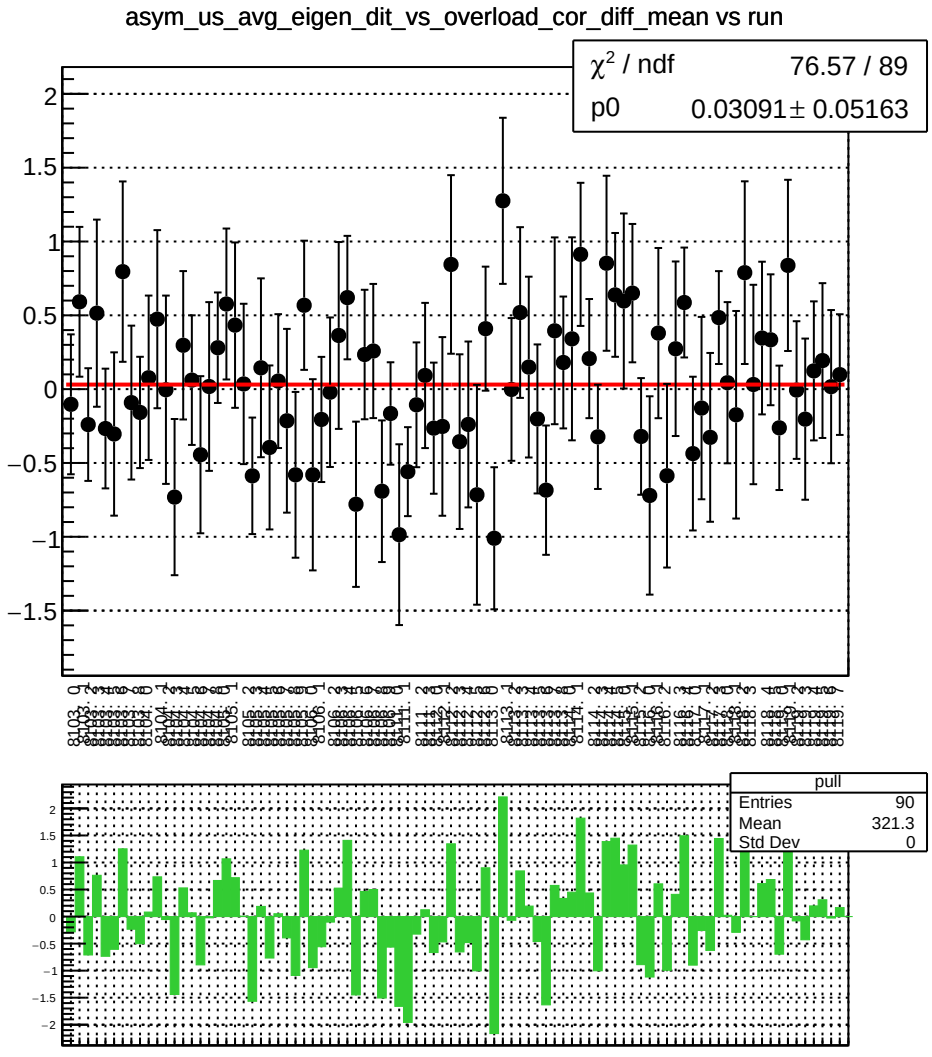

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2700 / 89
p0 0.006825 ± 5.151e−06
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

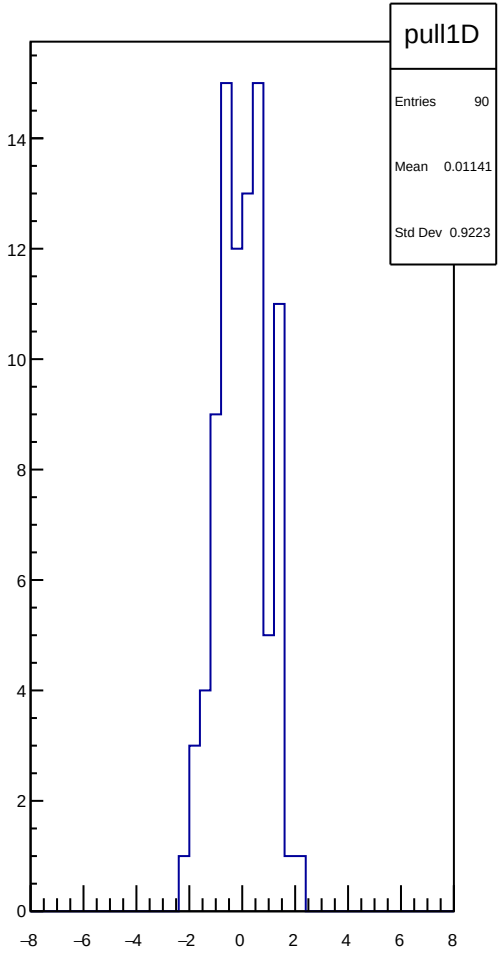

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.94 / 89
p0 0.04232 ± 0.04051
pull
Entries 90
Mean 216.8
Std Dev 0
pull1D
Entries 90
Mean 0.01002
Std Dev 0.8296

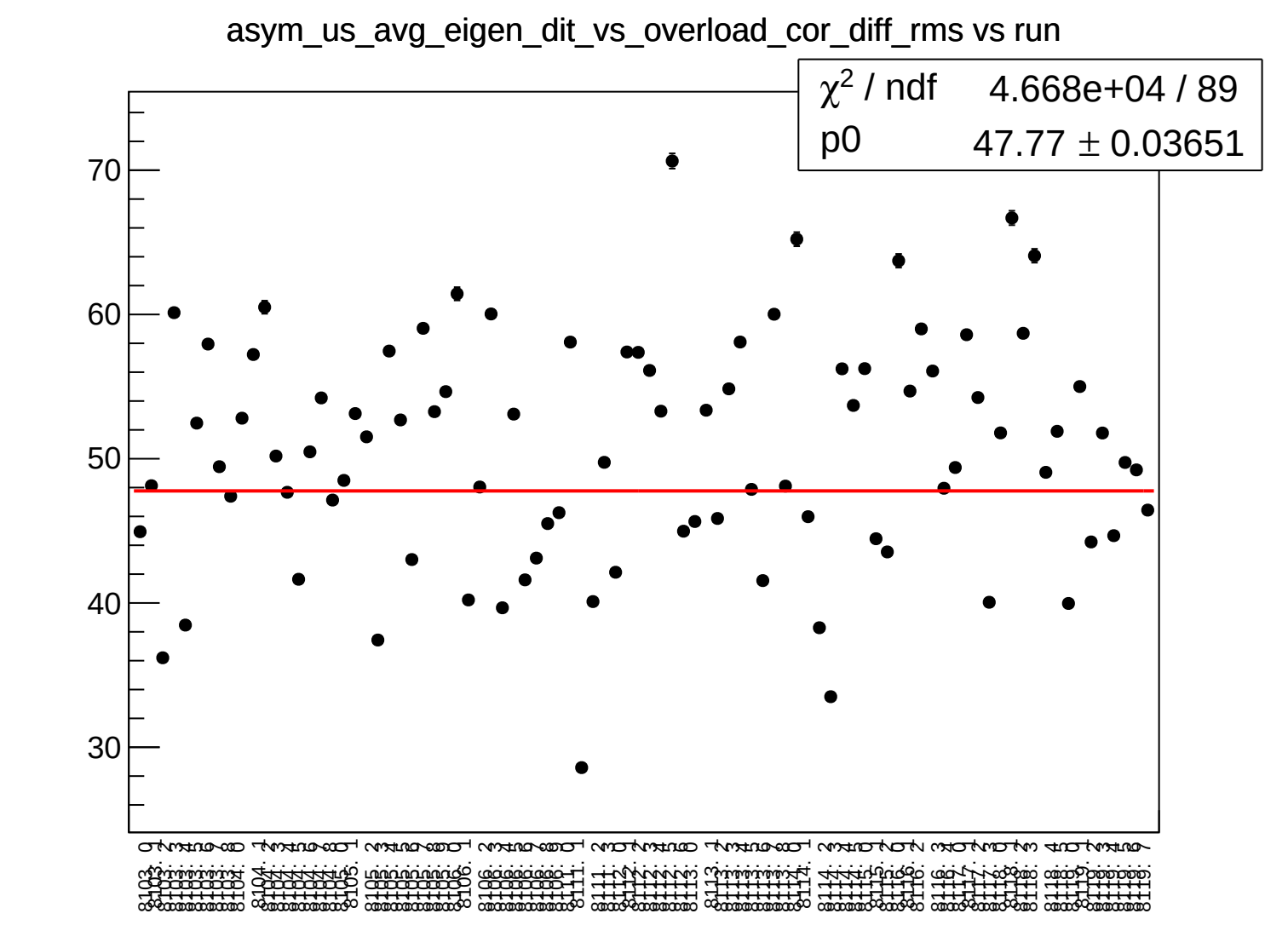

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.991e+04 / 89
p0 37.12 ± 0.02865
55
50
45
40
35
30
25
20

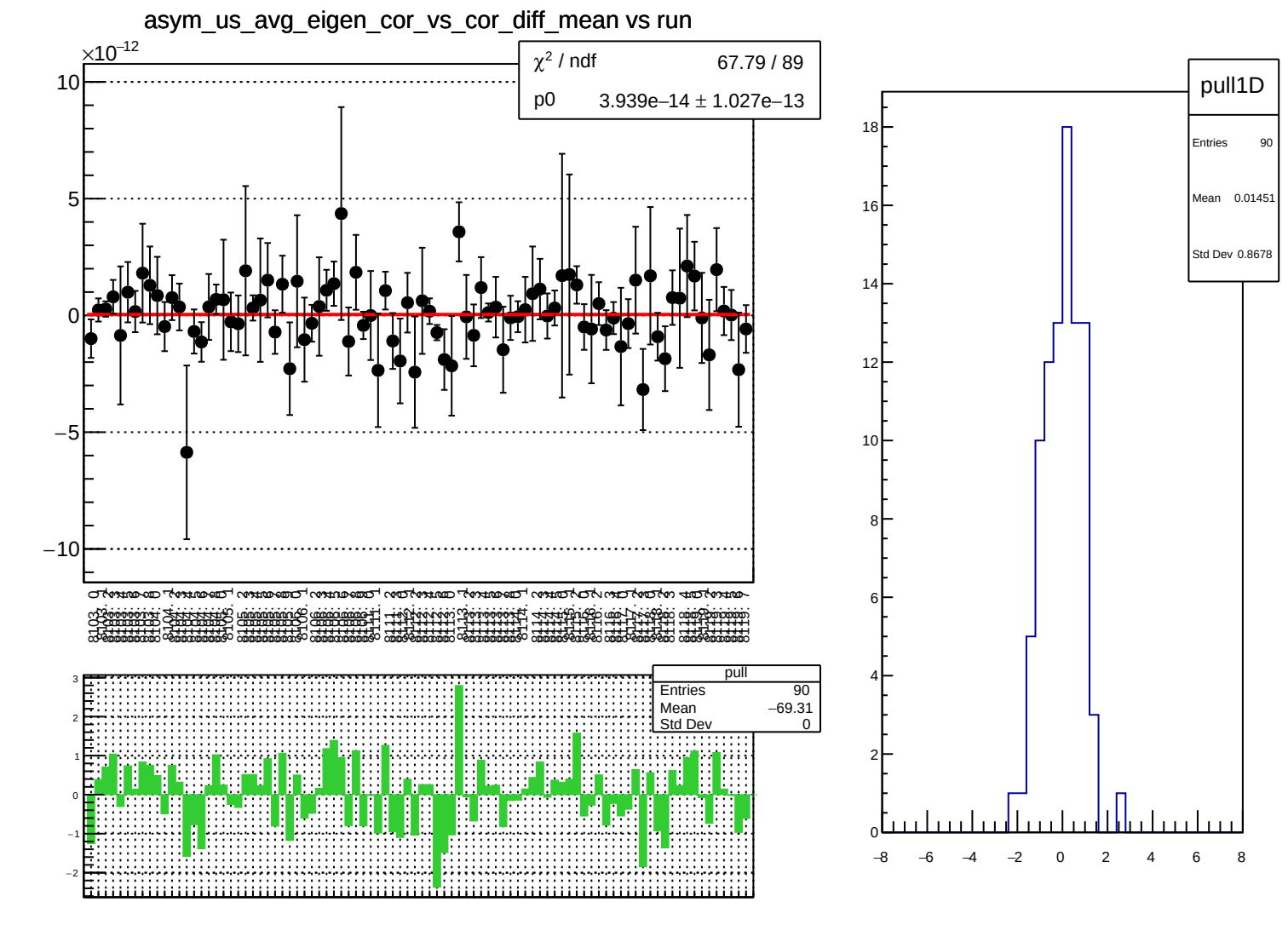

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.94 / 89
p0 0.04232 ± 0.04051
pull
Entries 90
Mean 216.8
Std Dev 0
pull1D
Entries 90
Mean 0.01002
Std Dev 0.8296

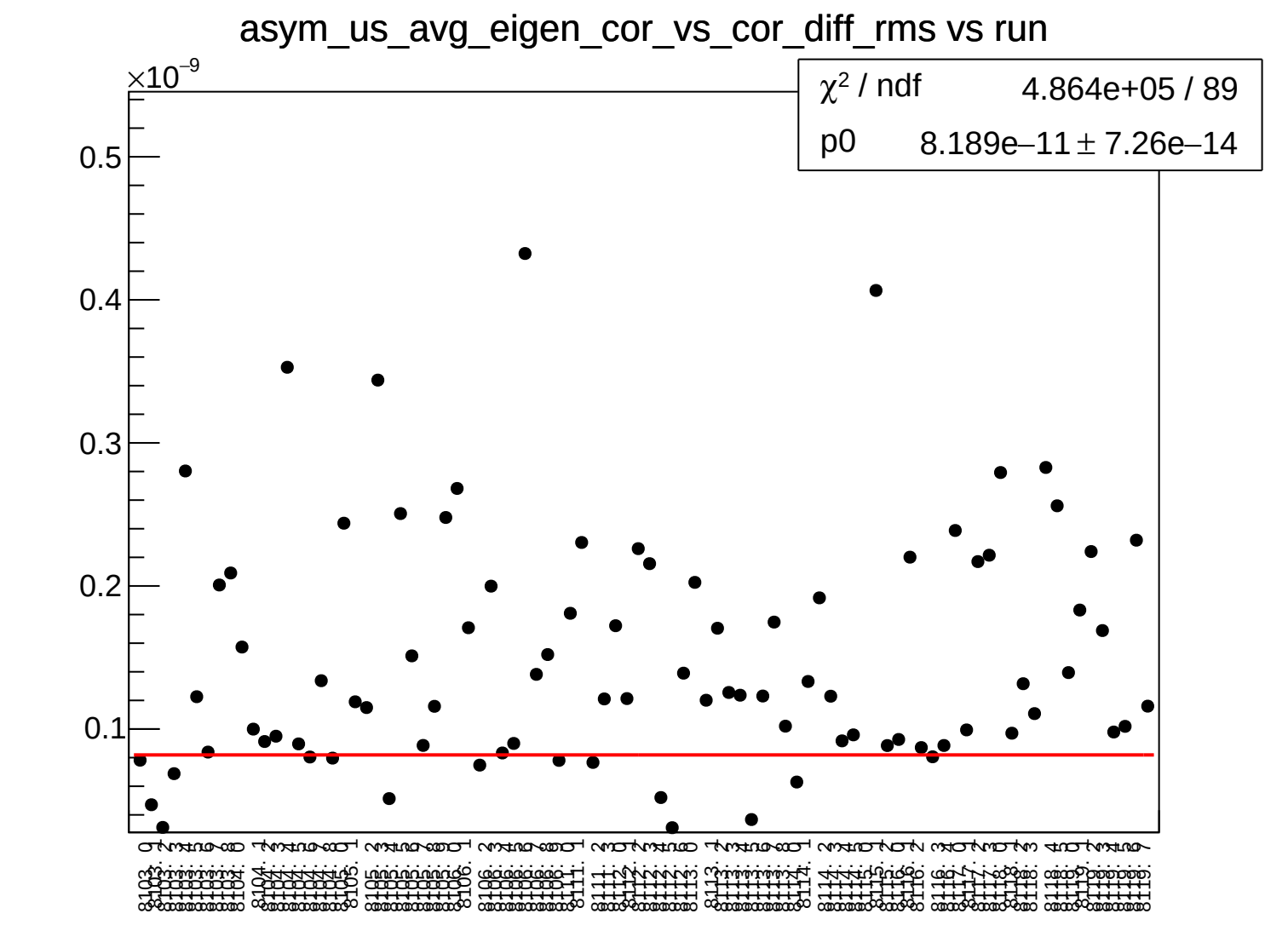

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.991e+04 / 89
p0 37.12 ± 0.02865
55
50
45
40
35
30
25
20

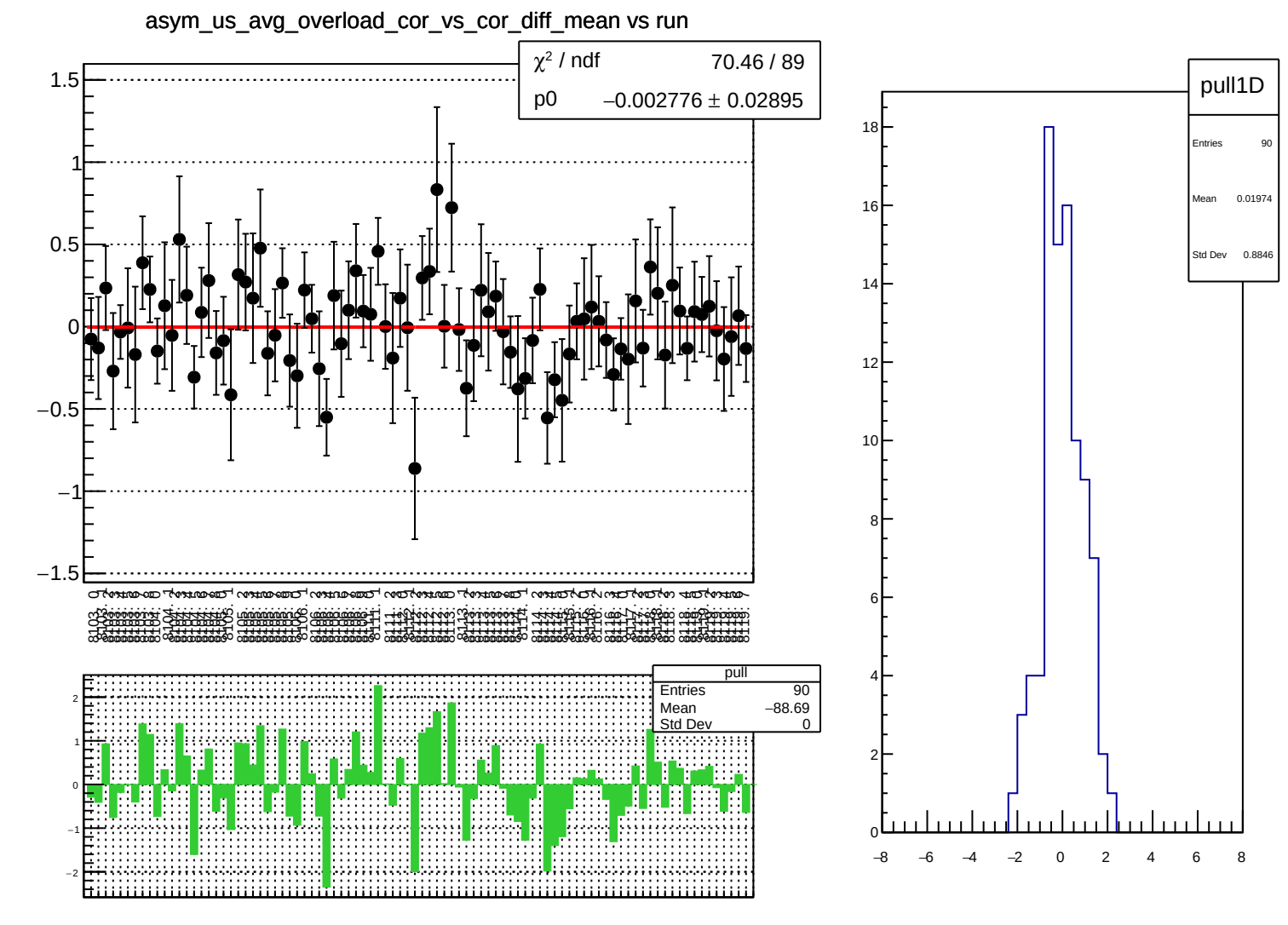

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 76.57 / 89
p0 0.03091 ± 0.05163
pull
Entries 90
Mean 321.3
Std Dev 0

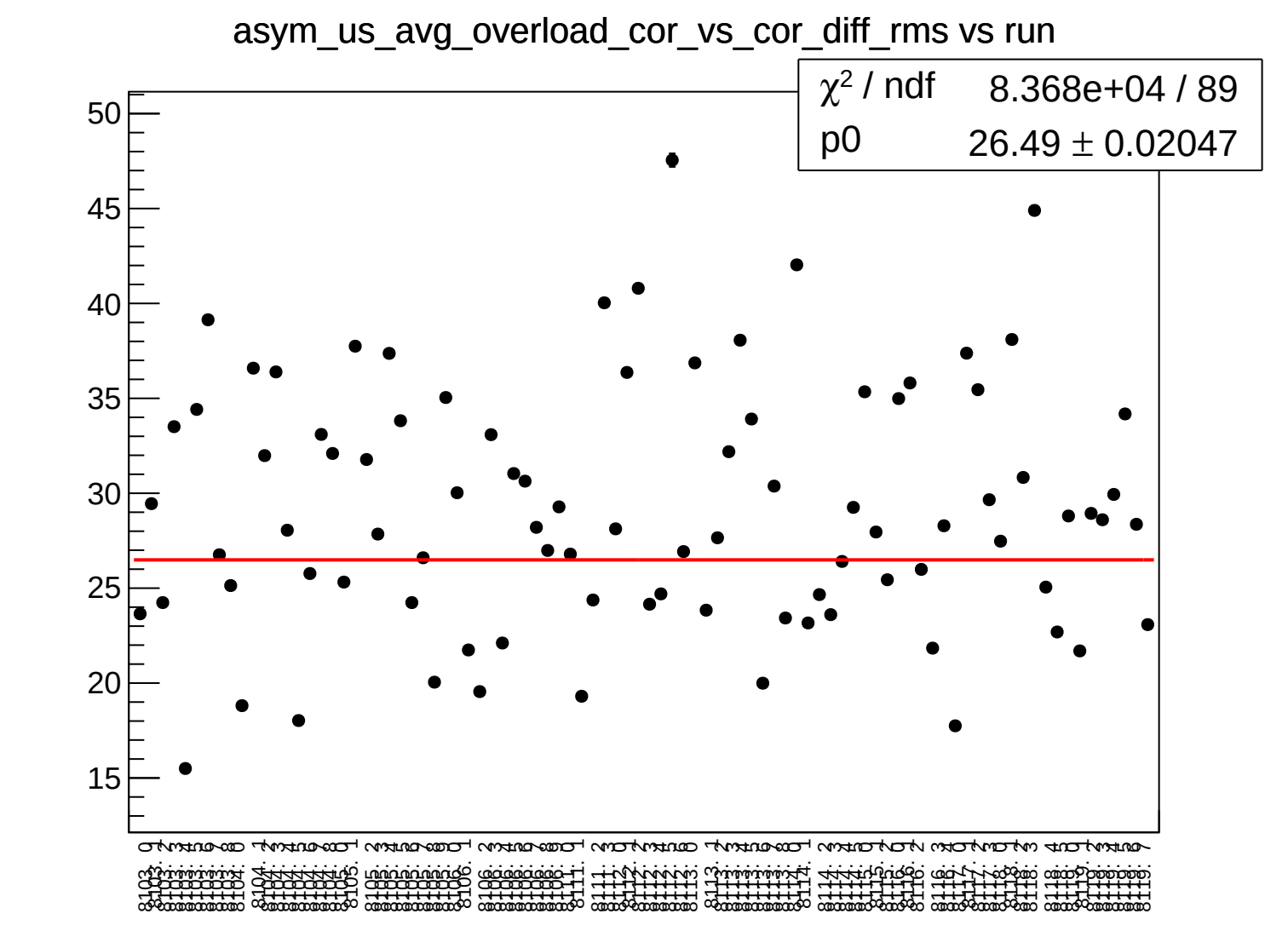

pull1D
Entries 90
Mean 0.01141
Std Dev 0.9223

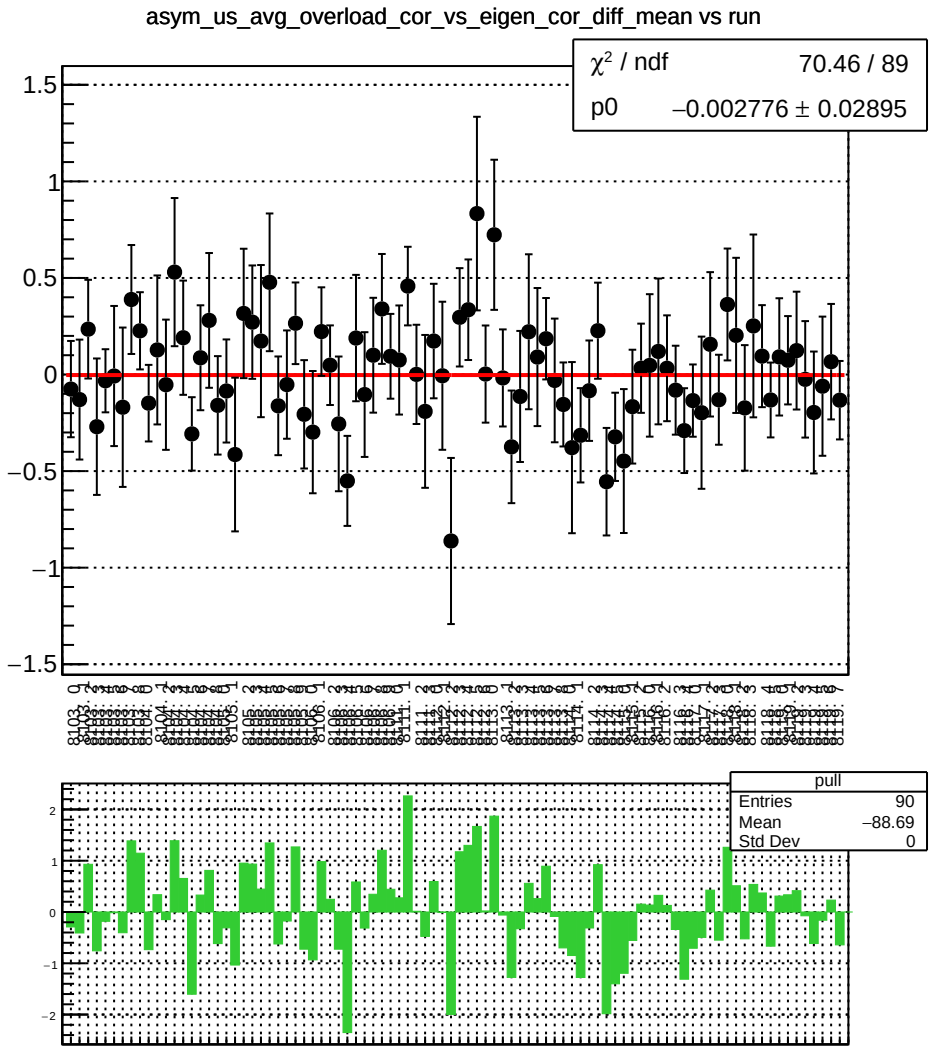

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.668e+04 / 89
p0 47.77 ± 0.03651
70
60
50
40
30

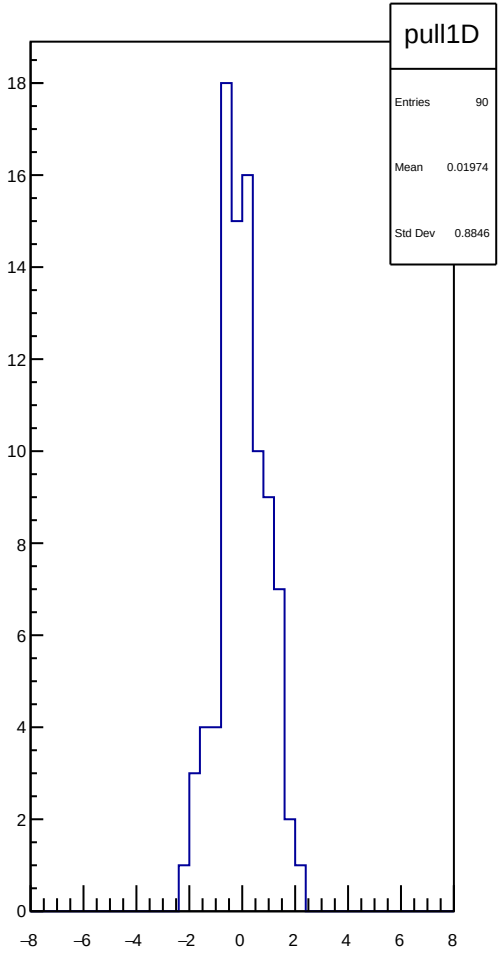

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 67.79 / 89
p0 3.939e−14 ± 1.027e−13
pull
Entries 90
Mean −69.31
Std Dev 0
pull1D
Entries 90
Mean 0.01451
Std Dev 0.8678

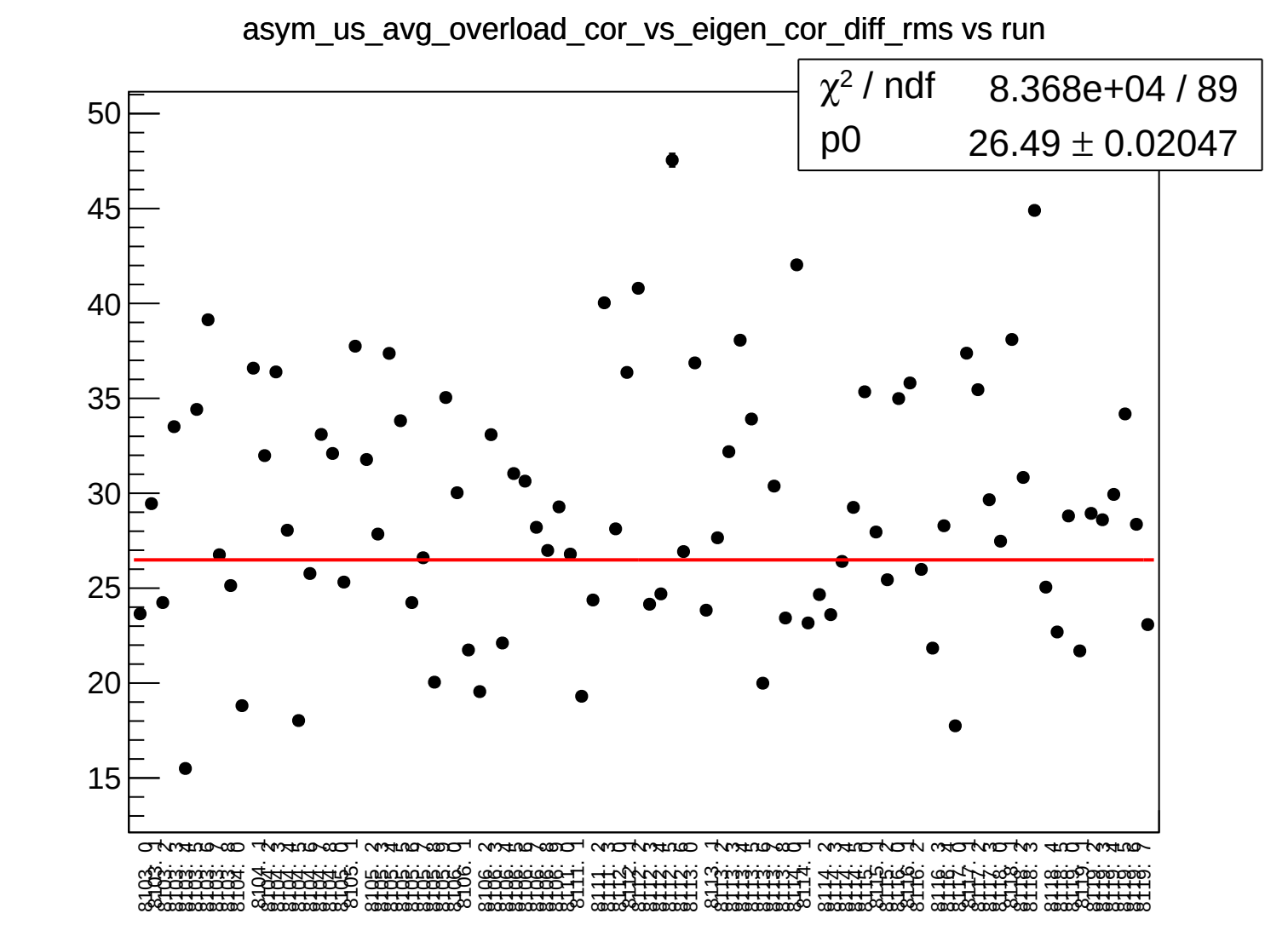

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.864e+05 / 89
p0 8.189e−11 ± 7.26e−14
0.5
0.4
0.3
0.2
0.1

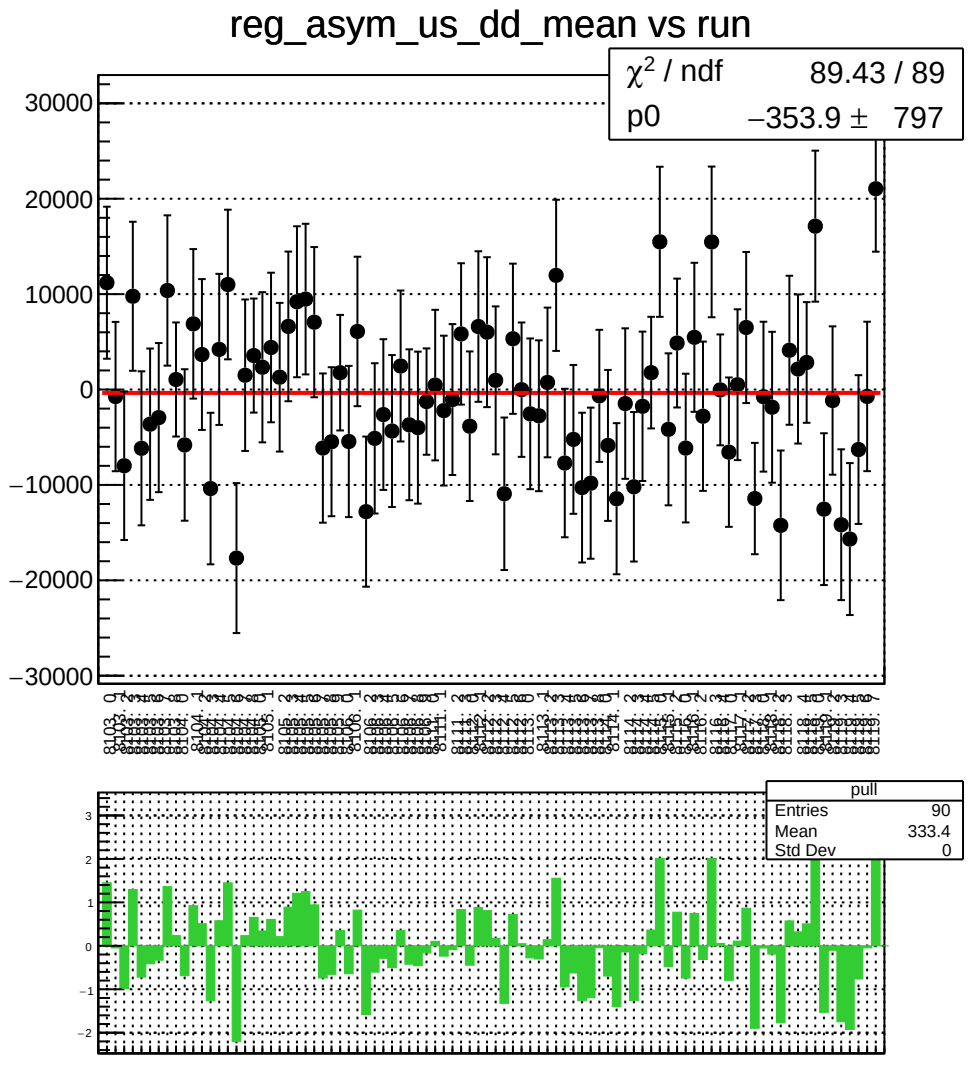

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 70.46 / 89
p0 −0.002776 ± 0.02895
pull
Entries 90
Mean −88.69
Std Dev 0
pull1D
Entries 90
Mean 0.01974
Std Dev 0.8846

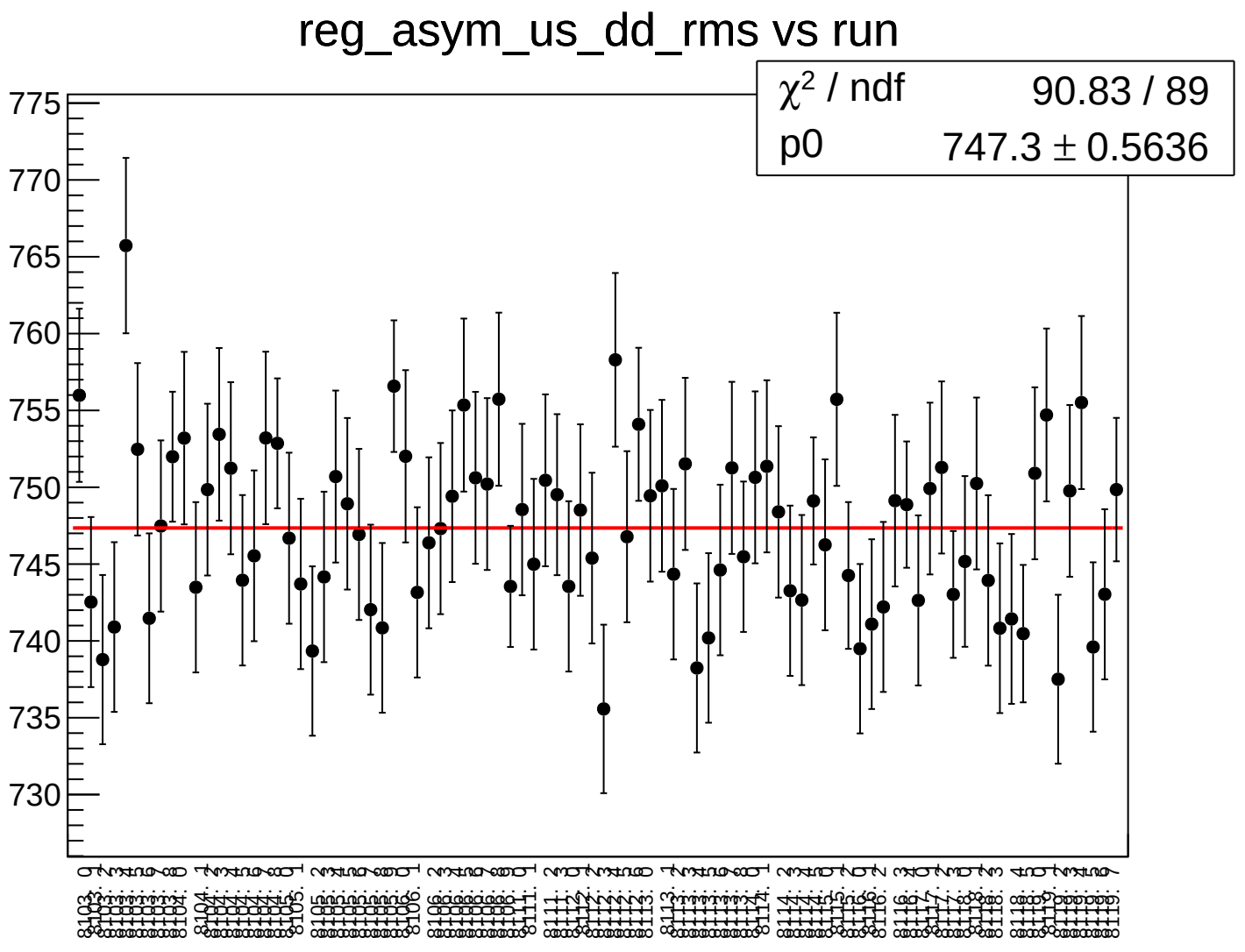

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.368e+04 / 89
p0 26.49 ± 0.02047
50
45
40
35
30
25
20
15

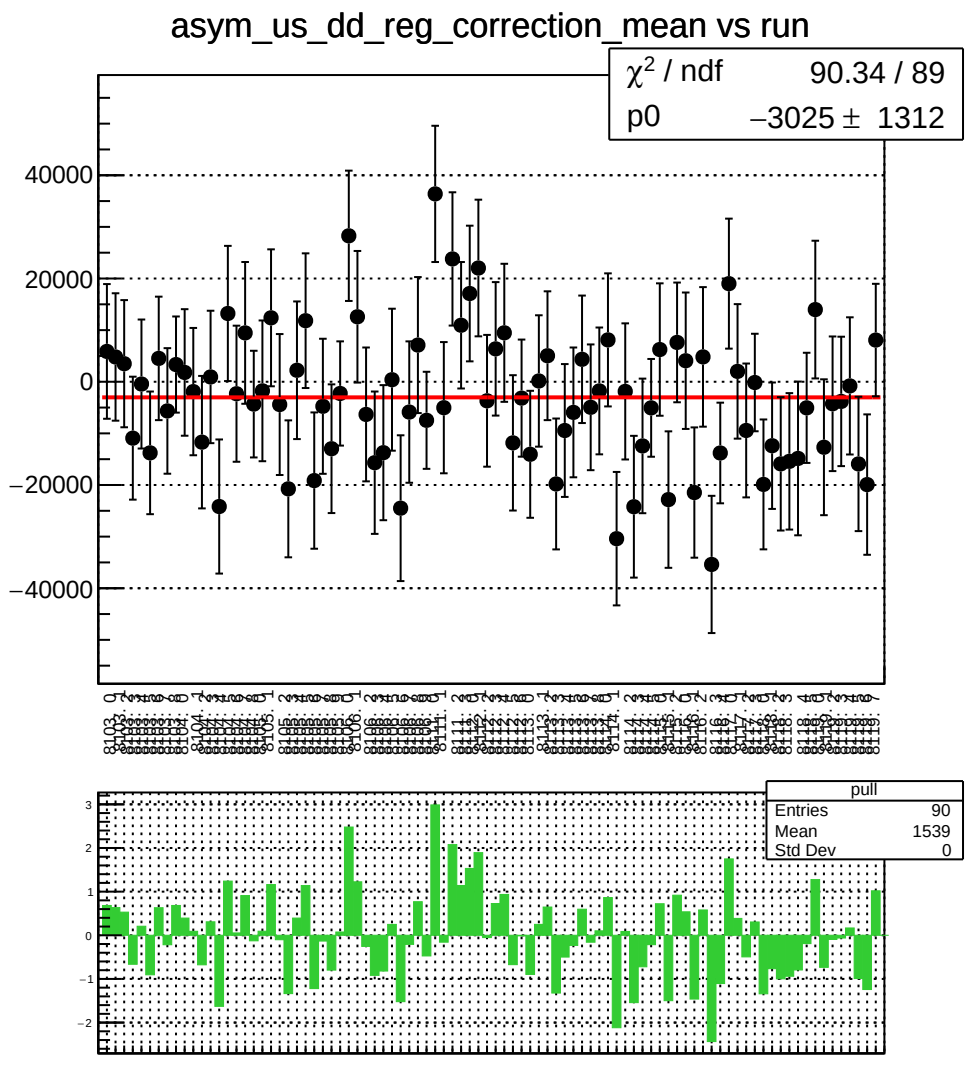

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.46 / 89
p0 −0.002776 ± 0.02895
pull
Entries 90
Mean −88.69
Std Dev 0

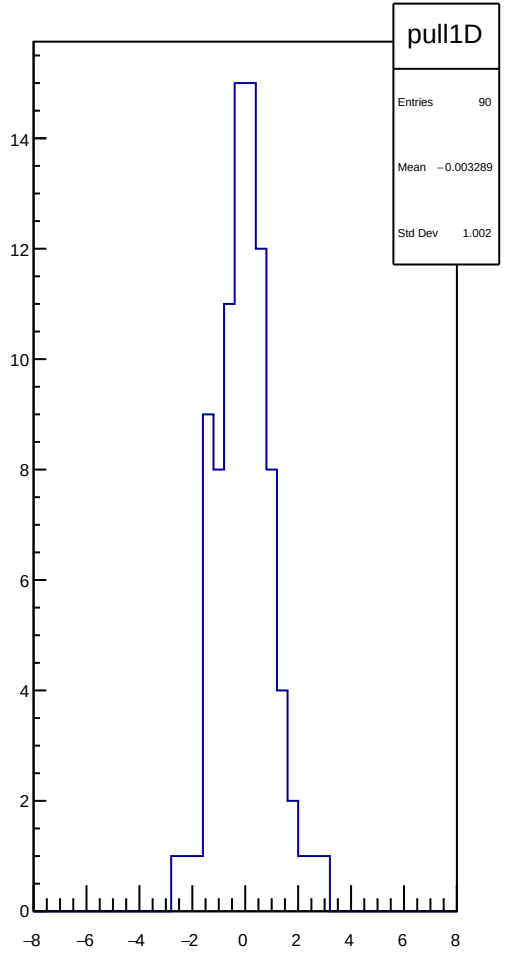

pull1D
Entries 90
Mean 0.01974
Std Dev 0.8846

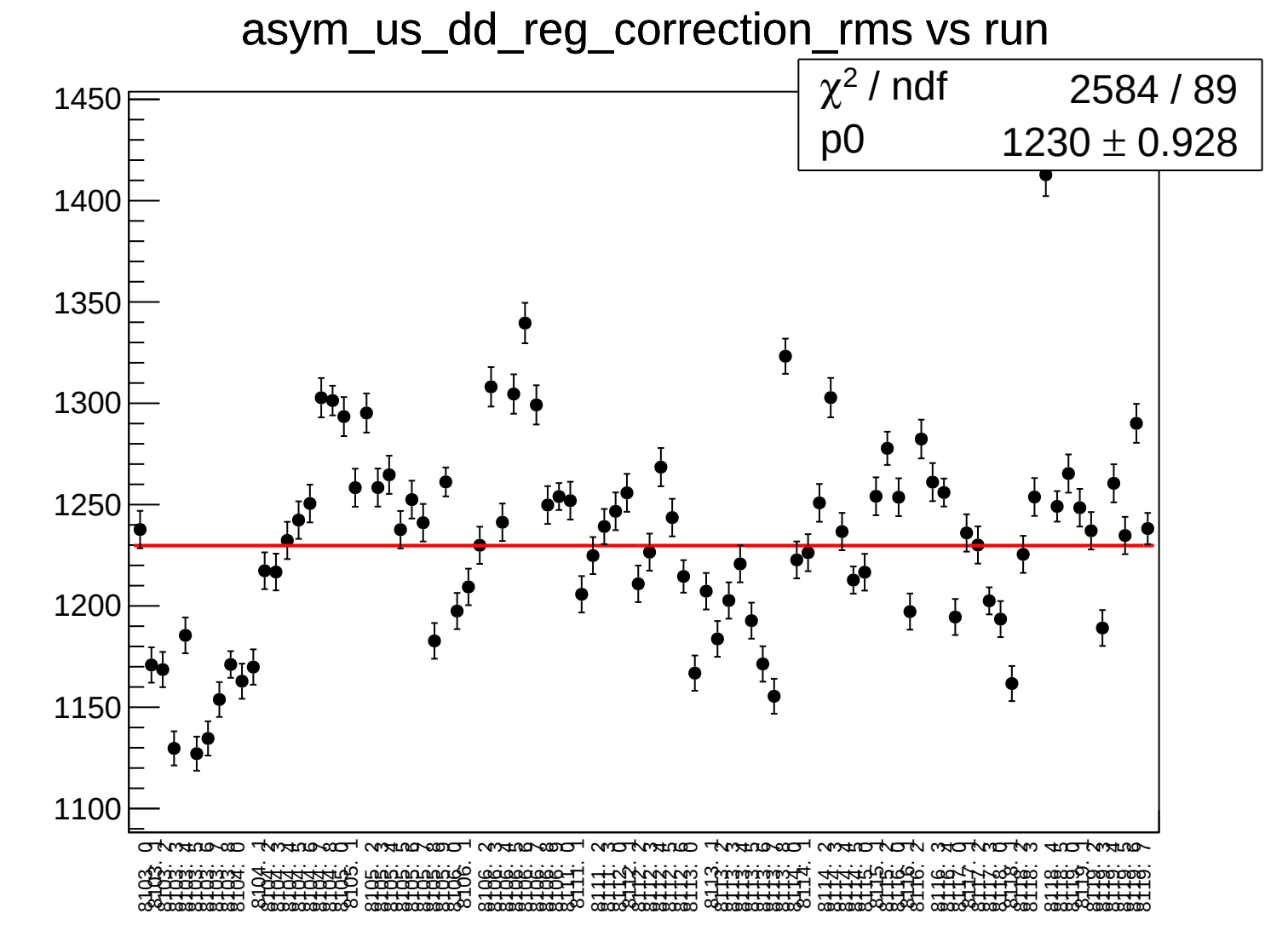

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.368e+04 / 89
p0 26.49 ± 0.02047
50
45
40
35
30
25
20
15

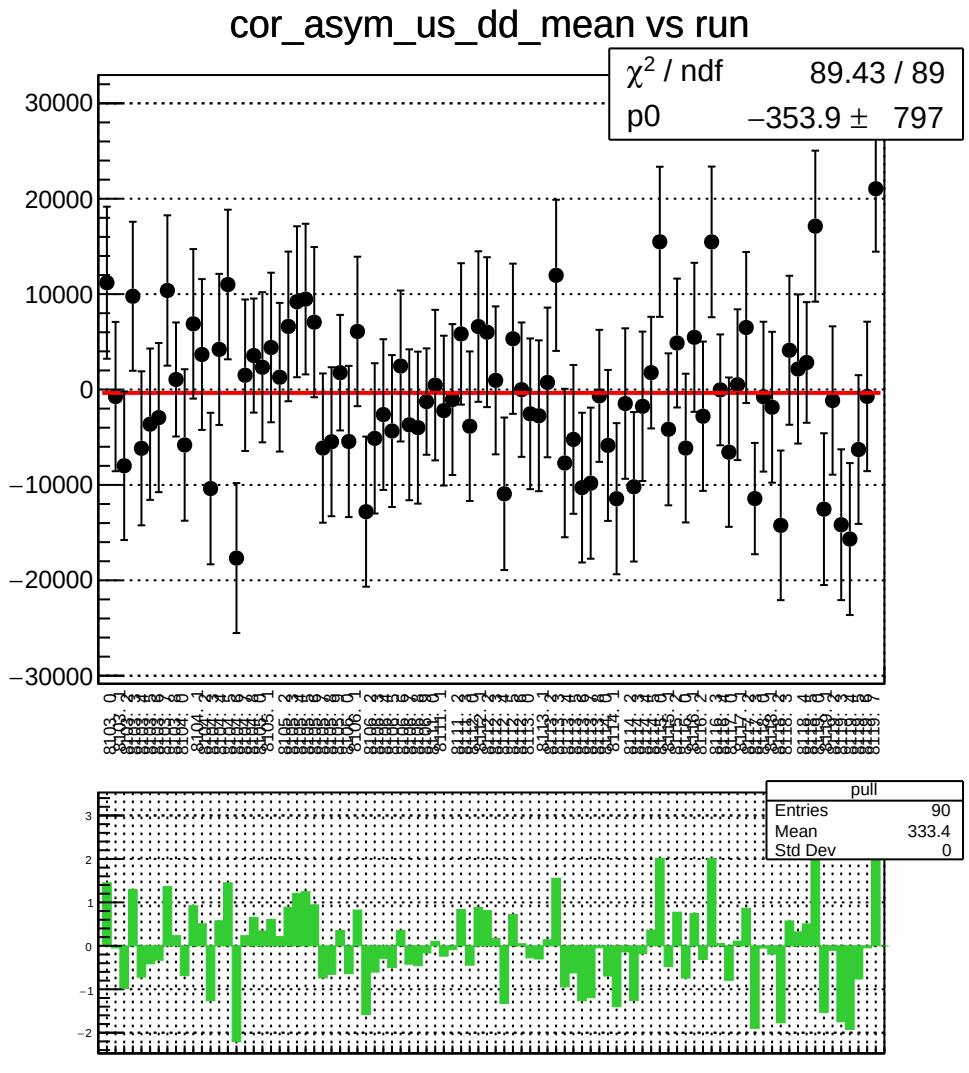

reg_asym_us_dd_mean vs run
χ² / ndf 89.43 / 89
p0 −353.9 ± 797
pull
Entries 90
Mean 333.4
Std Dev 0
pull1D
Entries 90
Mean −0.008563
Std Dev 0.9968

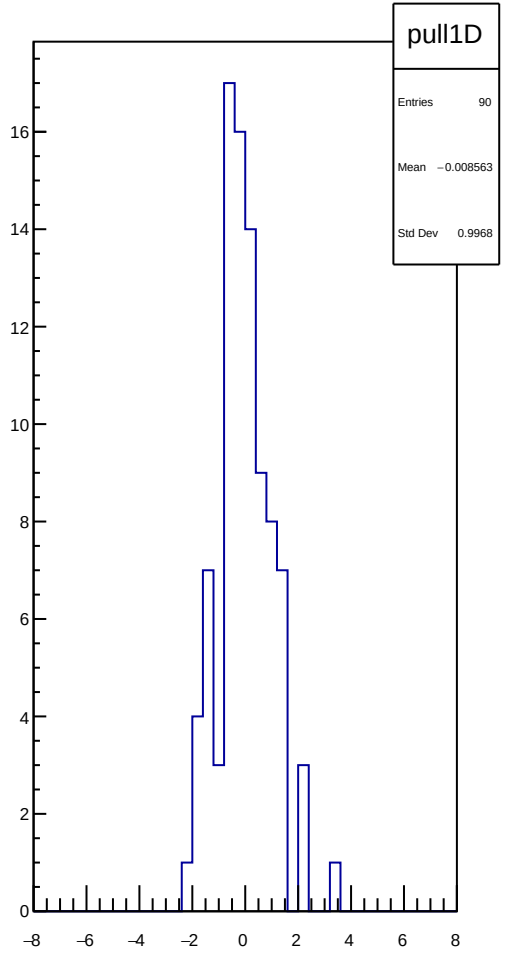

reg_asym_us_dd_rms vs run
χ^2 / ndf 90.83 / 89
p0 747.3 ± 0.5636
775
770
765
760
755
750
745
740
735
730

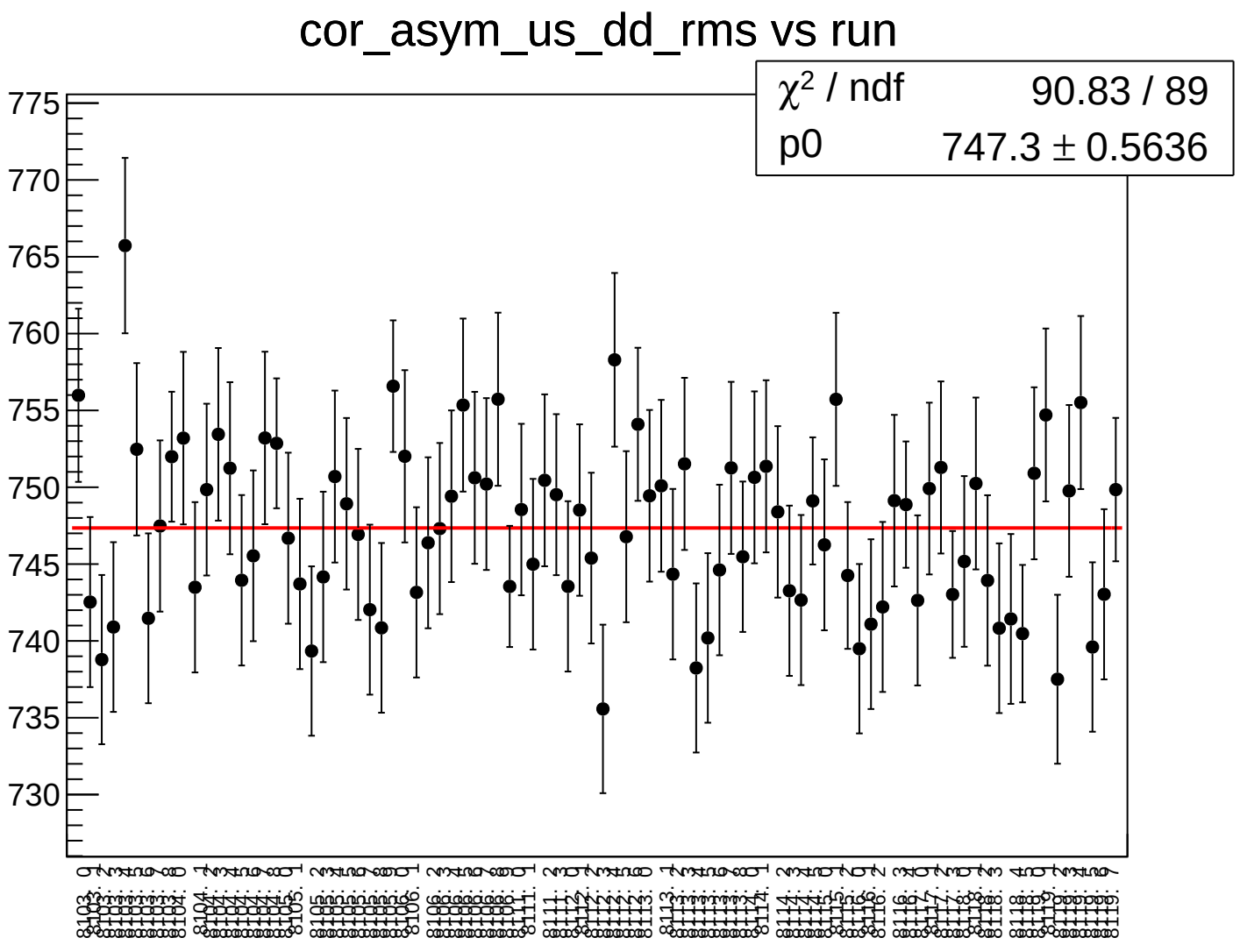

asym_us_dd_reg_correction_mean vs run
χ² / ndf 90.34 / 89
p0 −3025 ± 1312
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1539
Std Dev 0
3
2
1
0
−1
−2

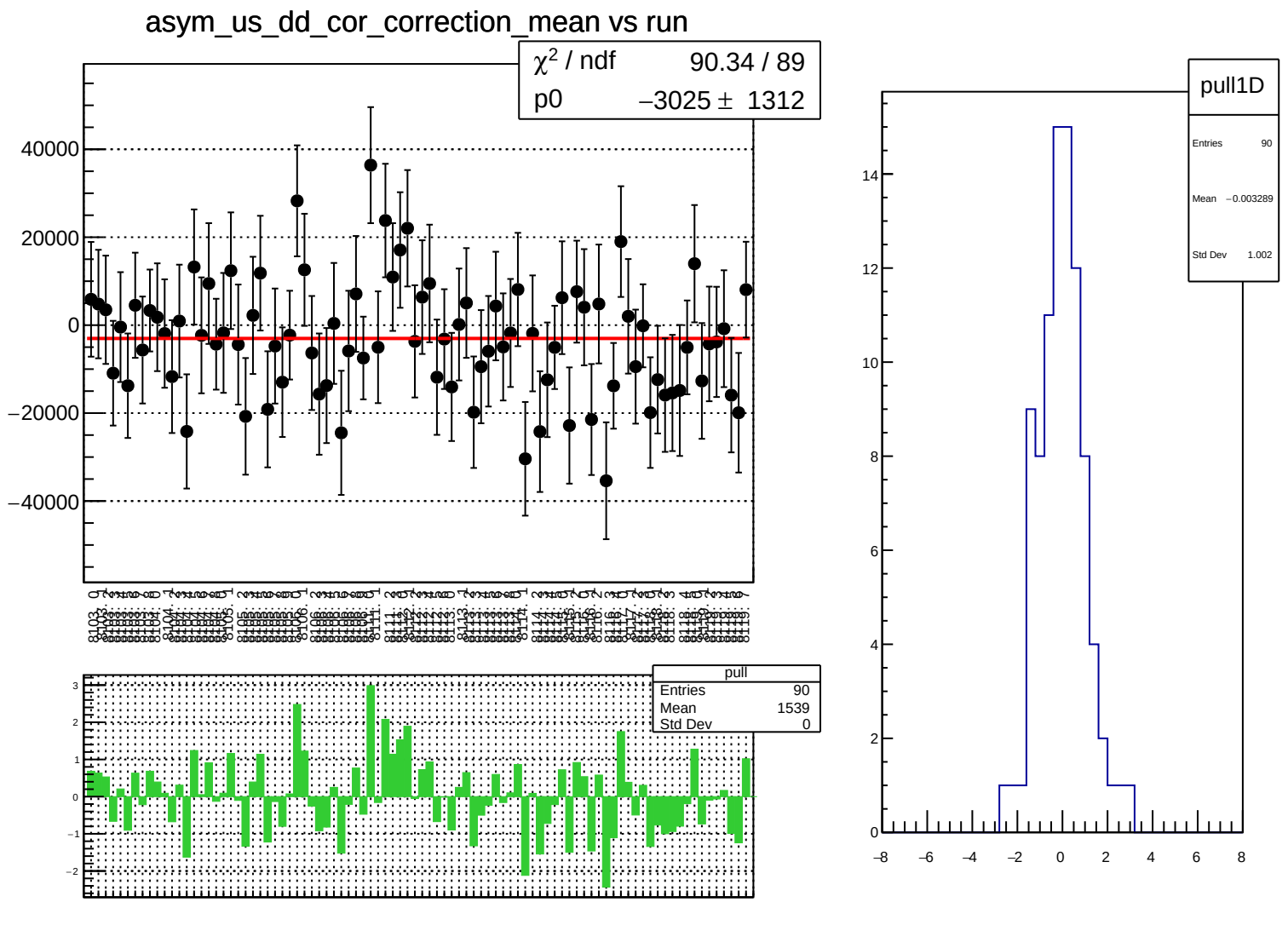

pull1D
Entries 90
Mean −0.003289
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

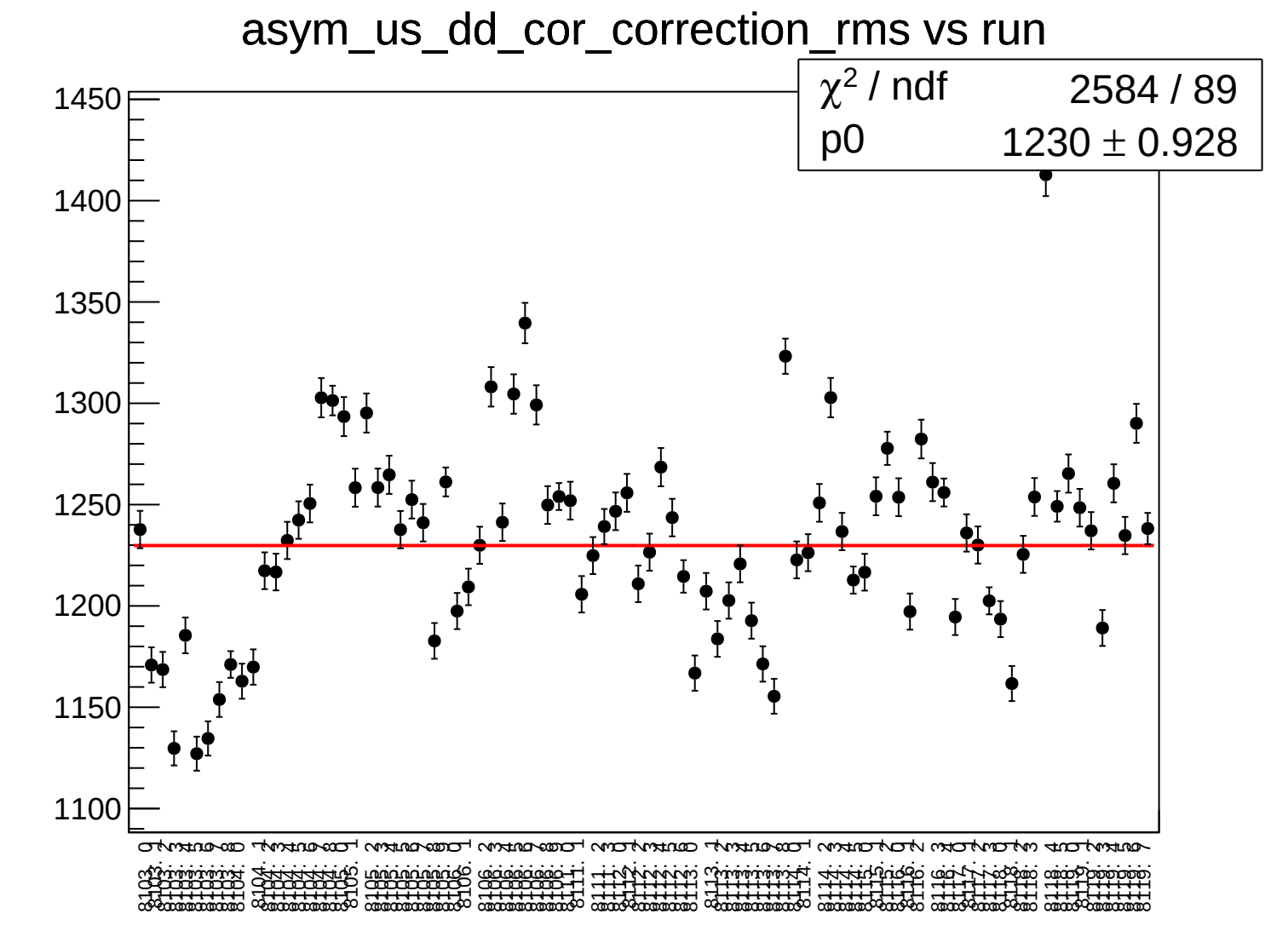

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2584 / 89
p0 1230 ± 0.928
1450
1400
1350
1300
1250
1200
1150
1100

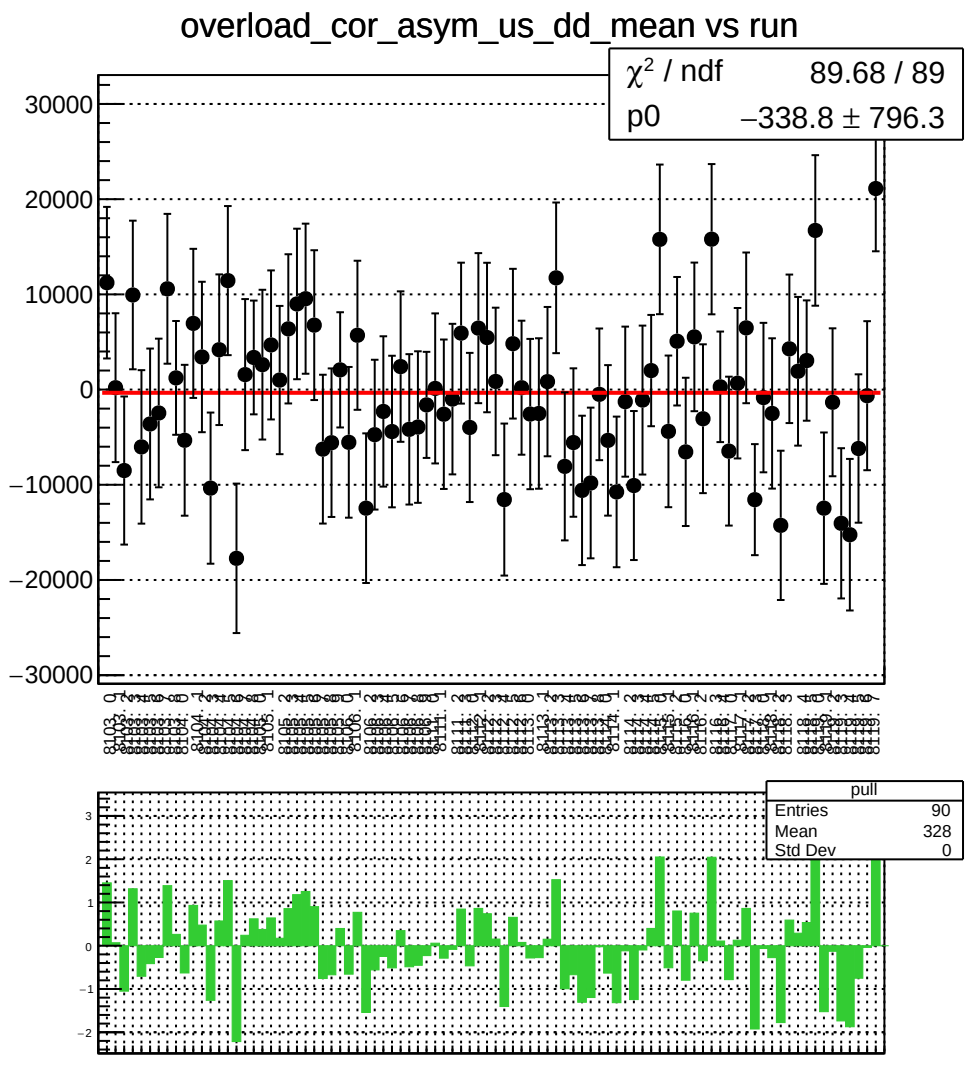

cor_asym_us_dd_mean vs run
χ² / ndf 89.43 / 89
p0 −353.9 ± 797
pull
Entries 90
Mean 333.4
Std Dev 0

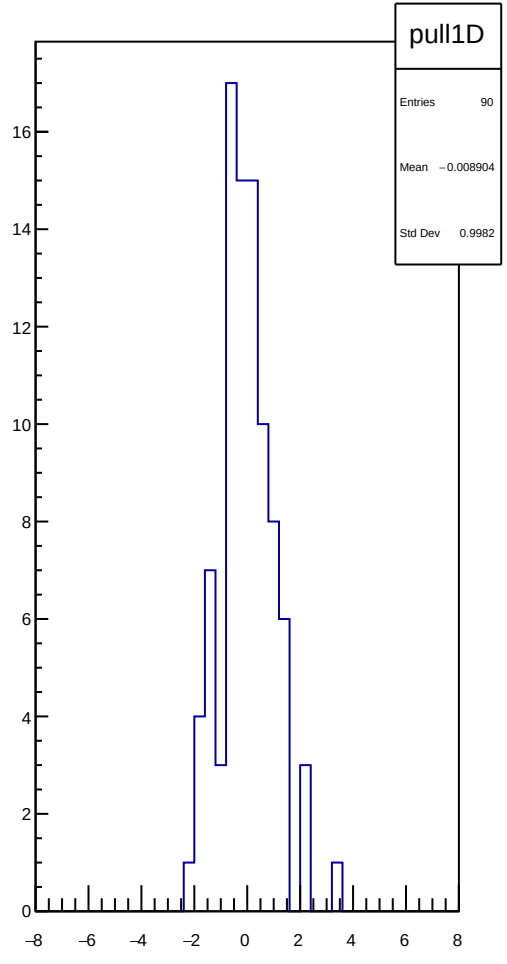

pull1D
Entries 90
Mean −0.008563
Std Dev 0.9968

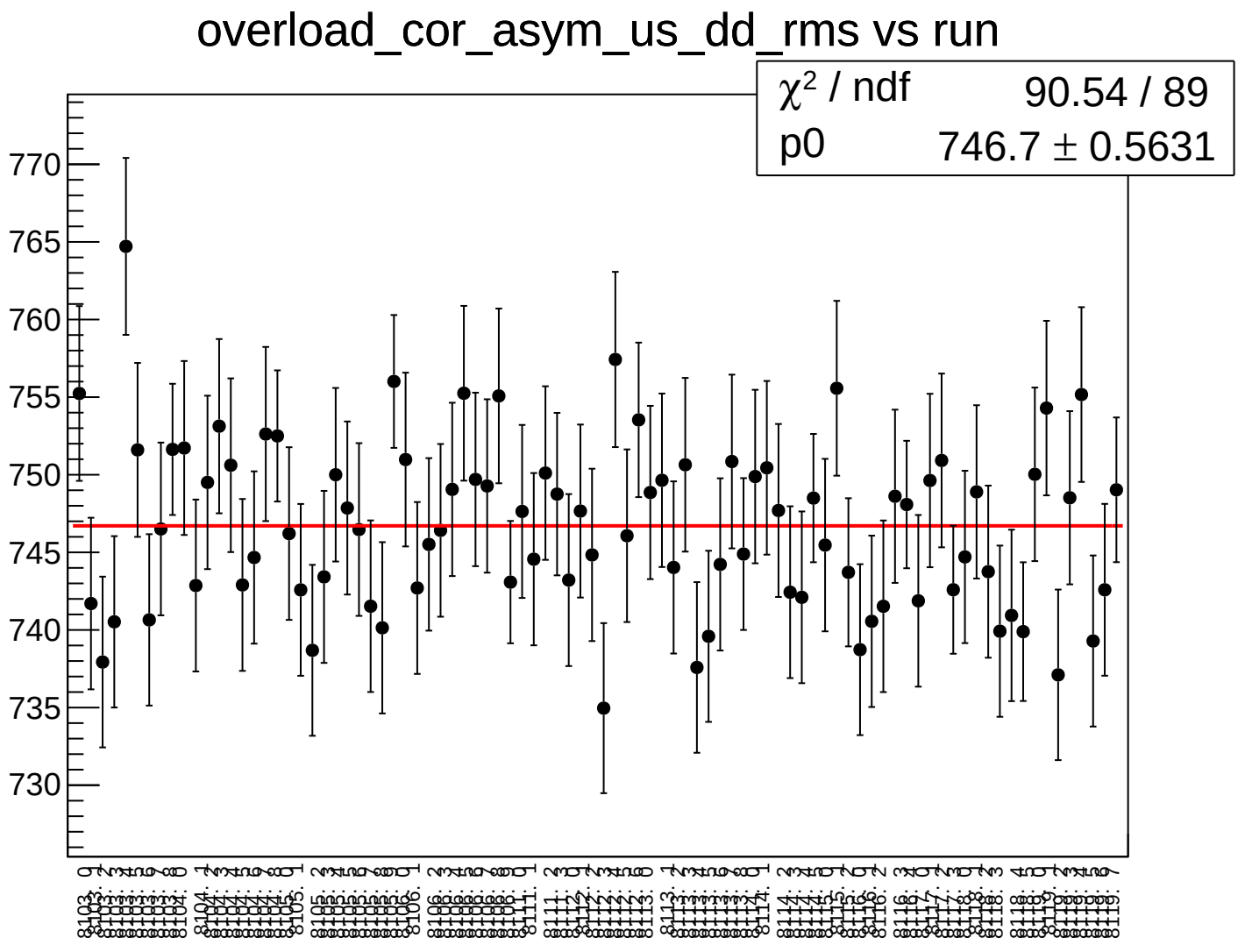

cor_asym_us_dd_rms vs run
χ^2 / ndf 90.83 / 89
p0 747.3 ± 0.5636
775
770
765
760
755
750
745
740
735
730

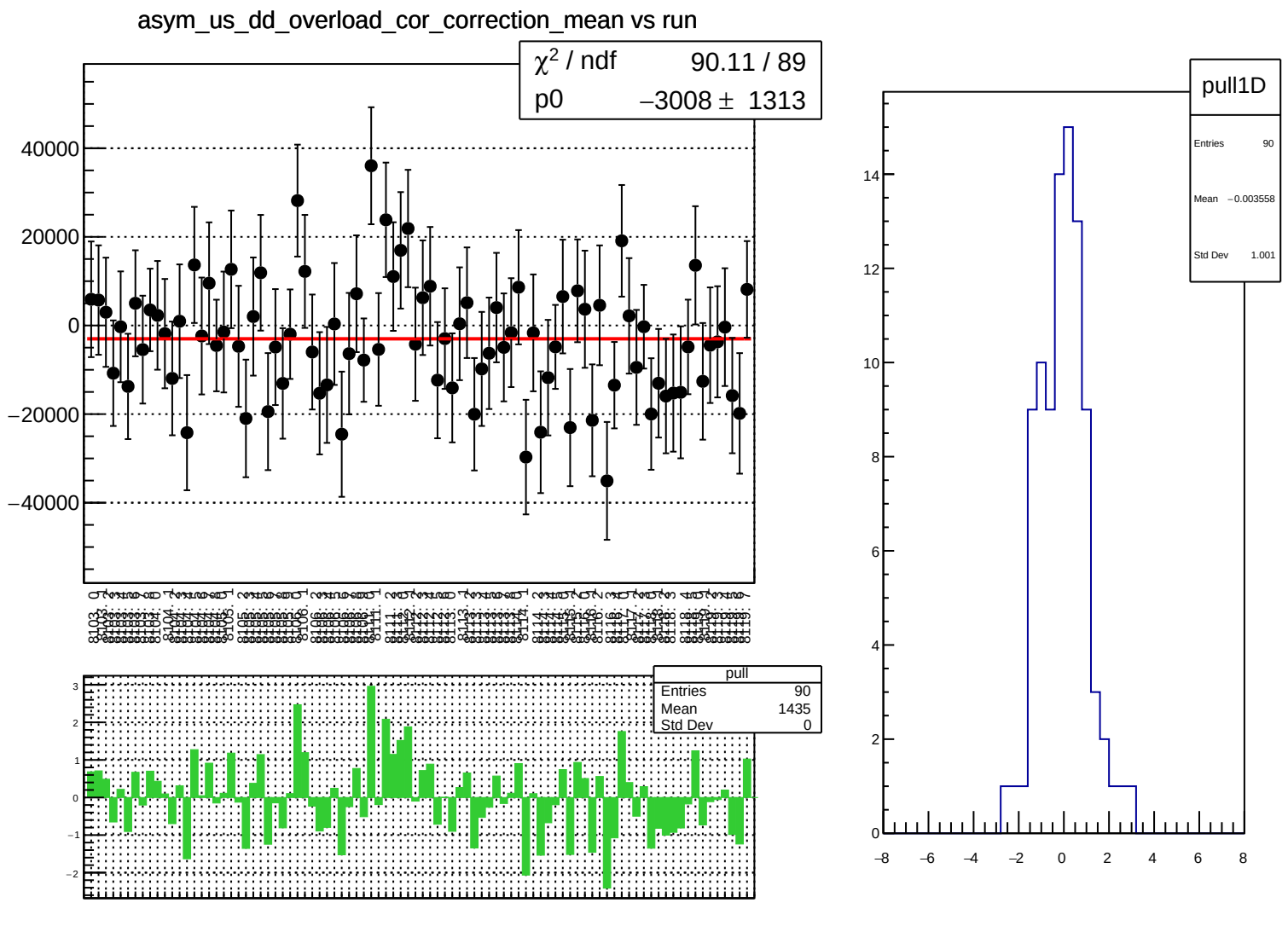

asym_us_dd_cor_correction_mean vs run
χ² / ndf 90.34 / 89
p0 −3025 ± 1312
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1539
Std Dev 0
pull1D
Entries 90
Mean −0.003289
Std Dev 1.002

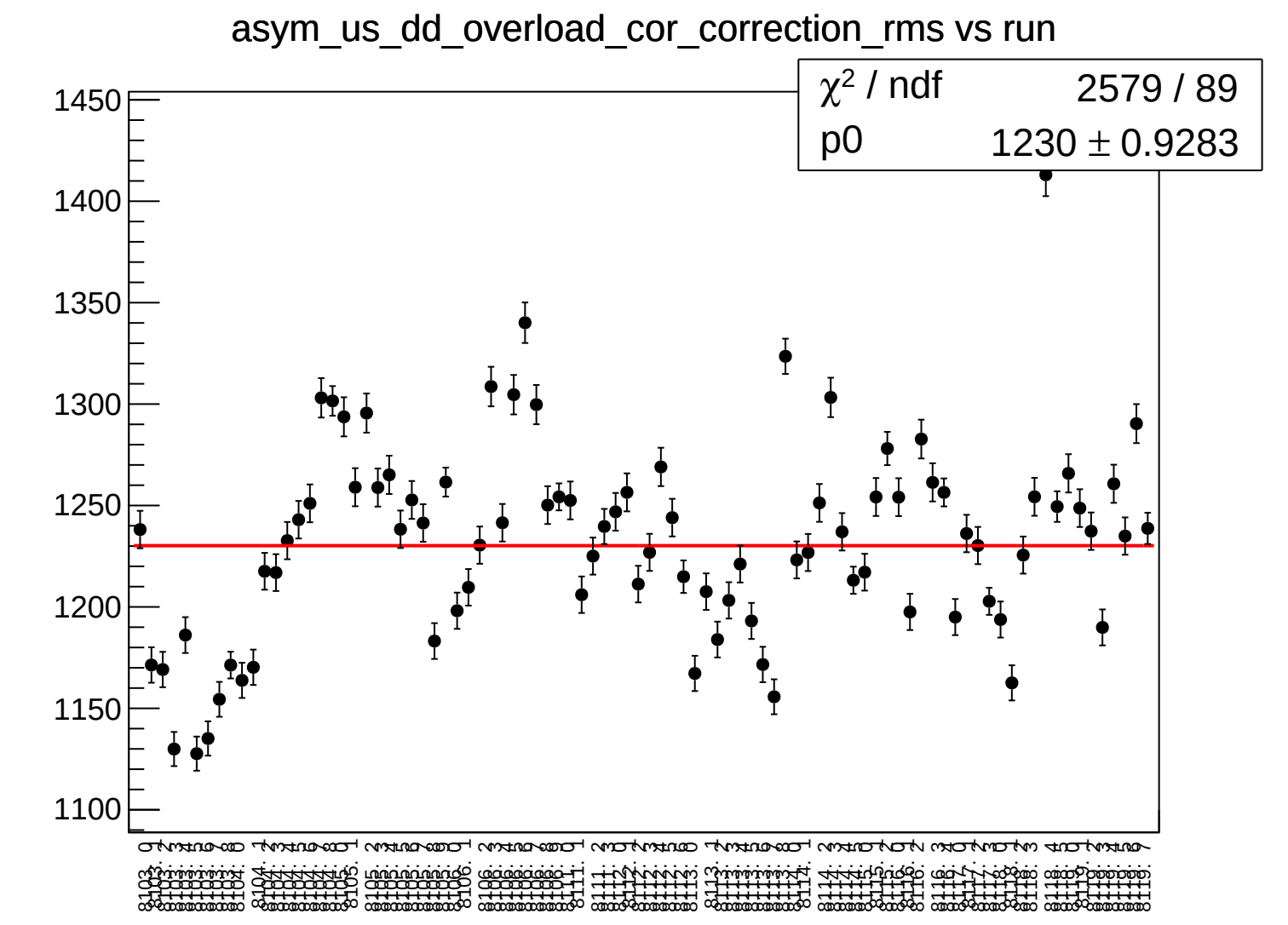

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2584 / 89
p0 1230 ± 0.928
1450
1400
1350
1300
1250
1200
1150
1100

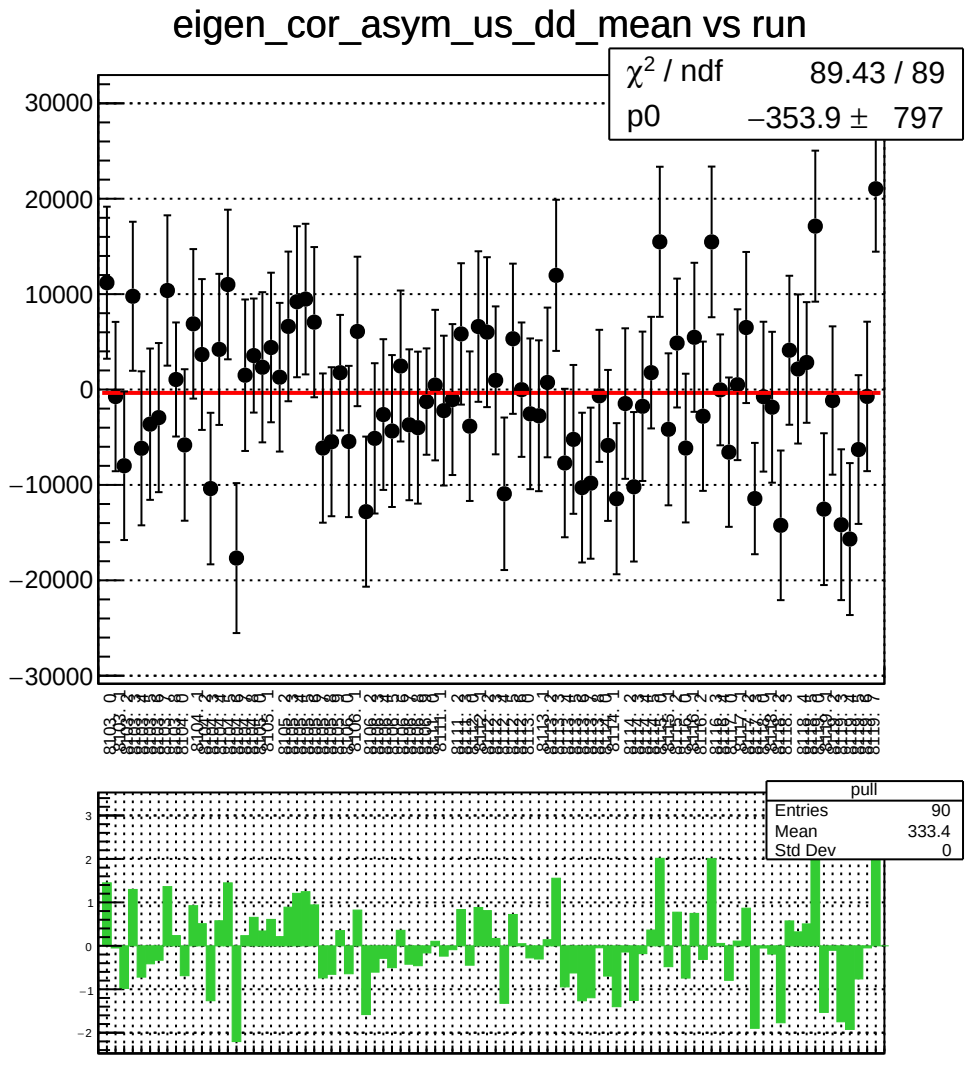

overload_cor_asym_us_dd_mean vs run
χ² / ndf 89.68 / 89
p0 −338.8 ± 796.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 328
Std Dev 0
3
2
1
0
−1
−2

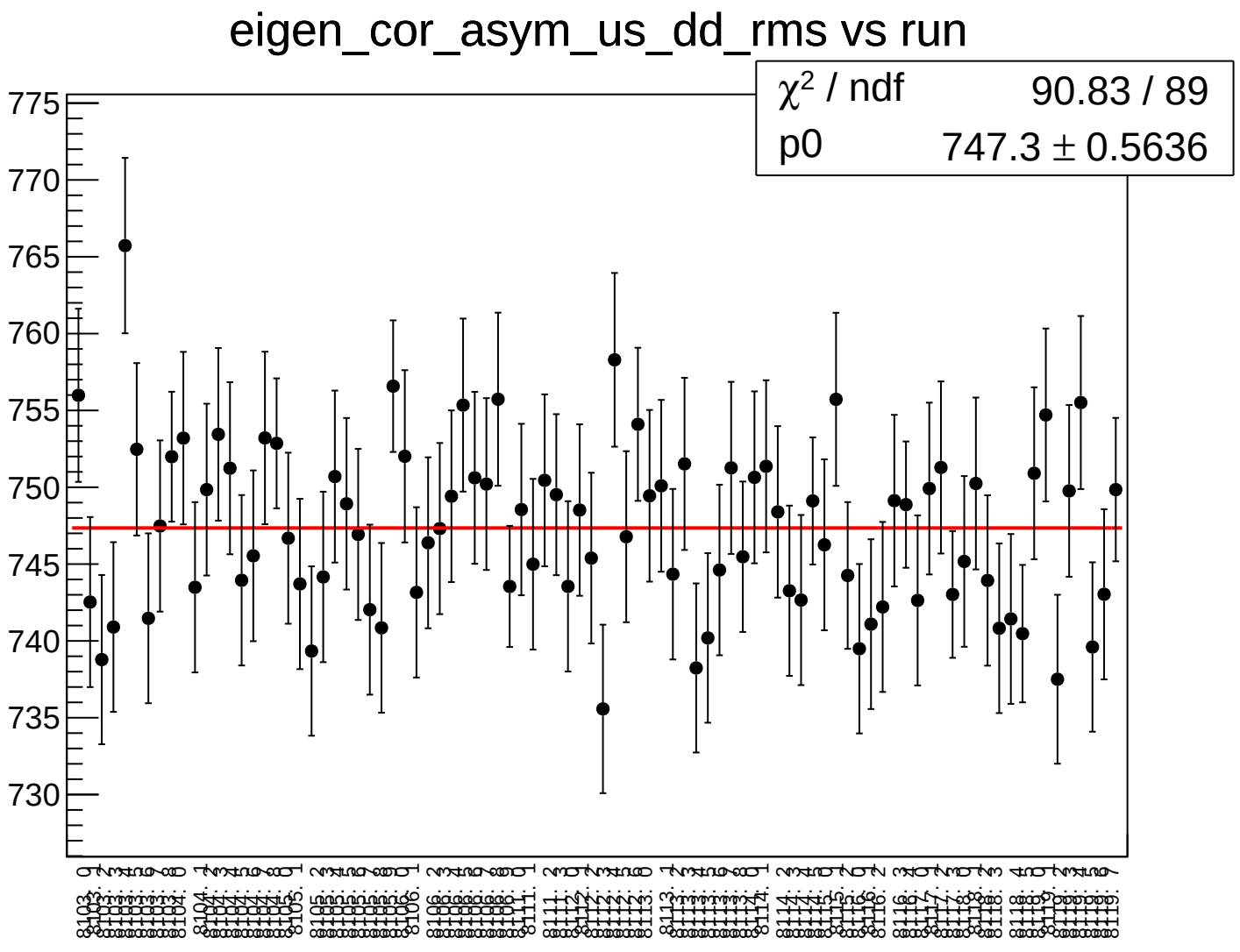

pull1D
Entries 90
Mean −0.008904
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

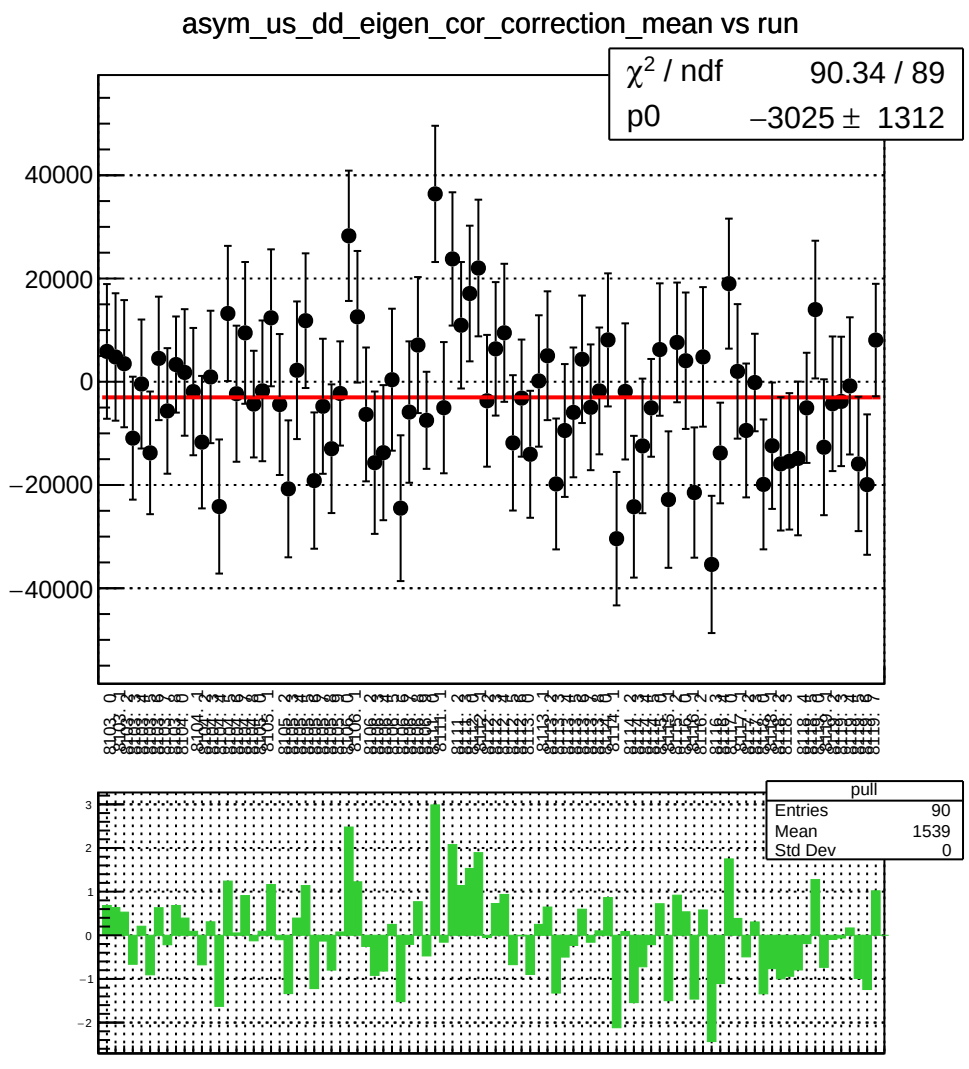

overload_cor_asym_us_dd_rms vs run
χ² / ndf 90.54 / 89
p0 746.7 ± 0.5631
770
765
760
755
750
745
740
735
730

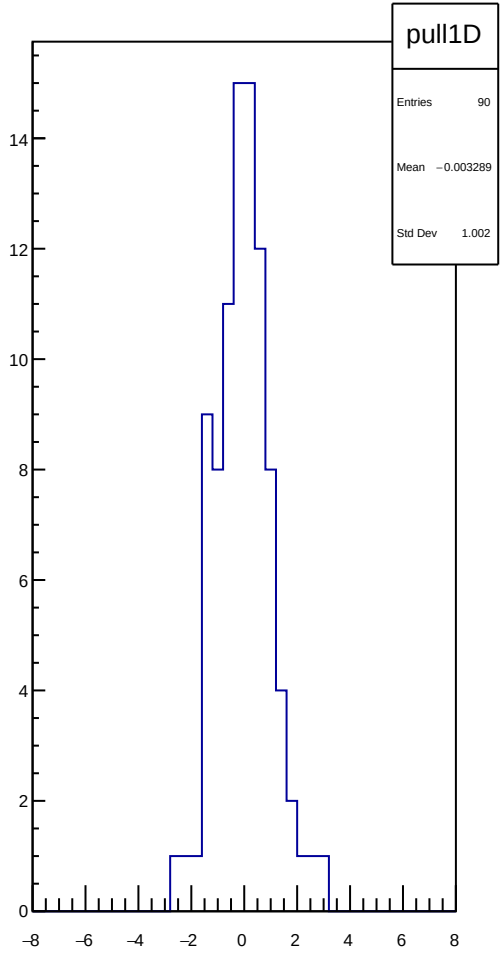

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 90.11 / 89
p0 −3008 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1435
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003558
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

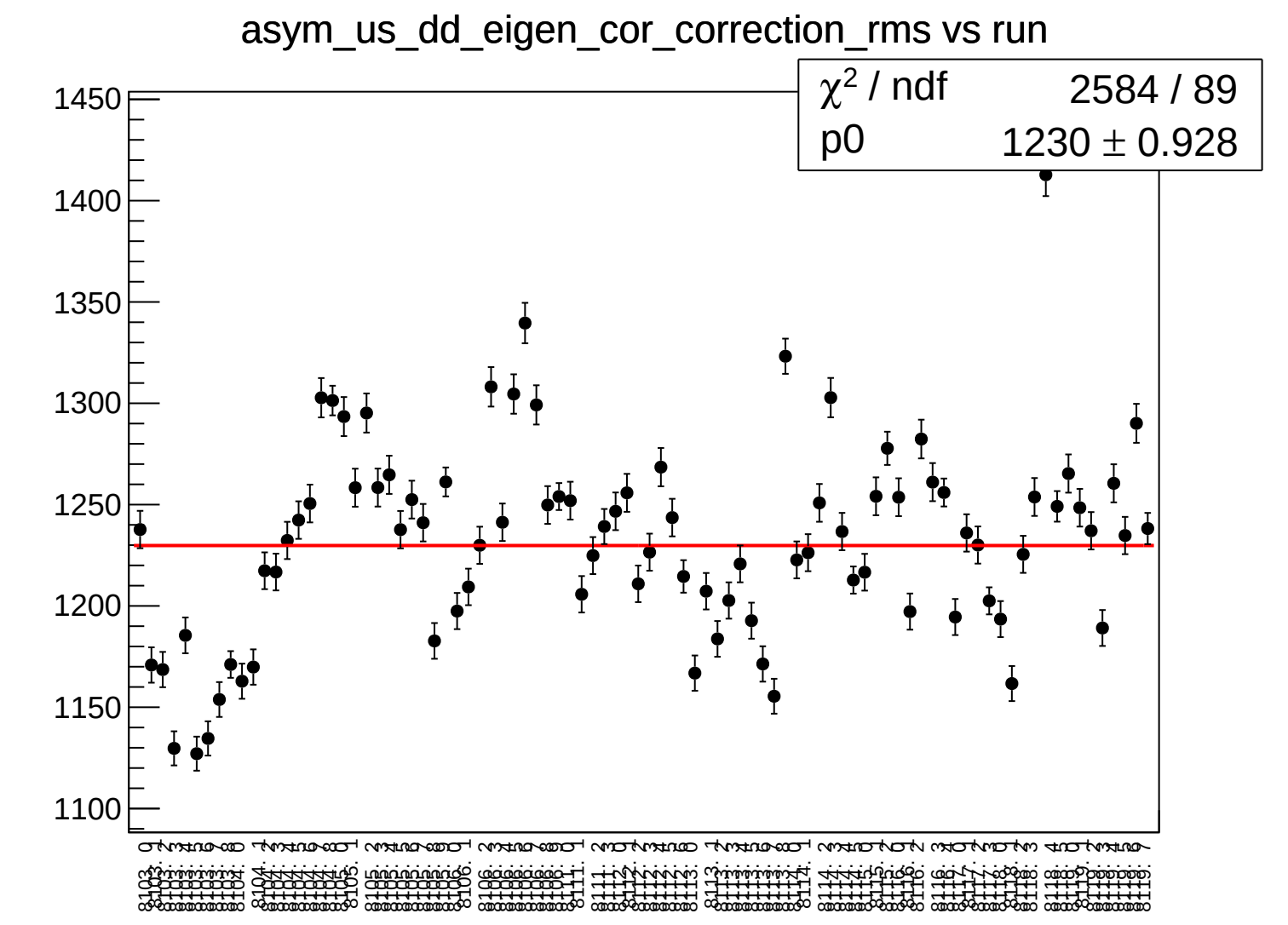

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2579 / 89
p0 1230 ± 0.9283
1450
1400
1350
1300
1250
1200
1150
1100

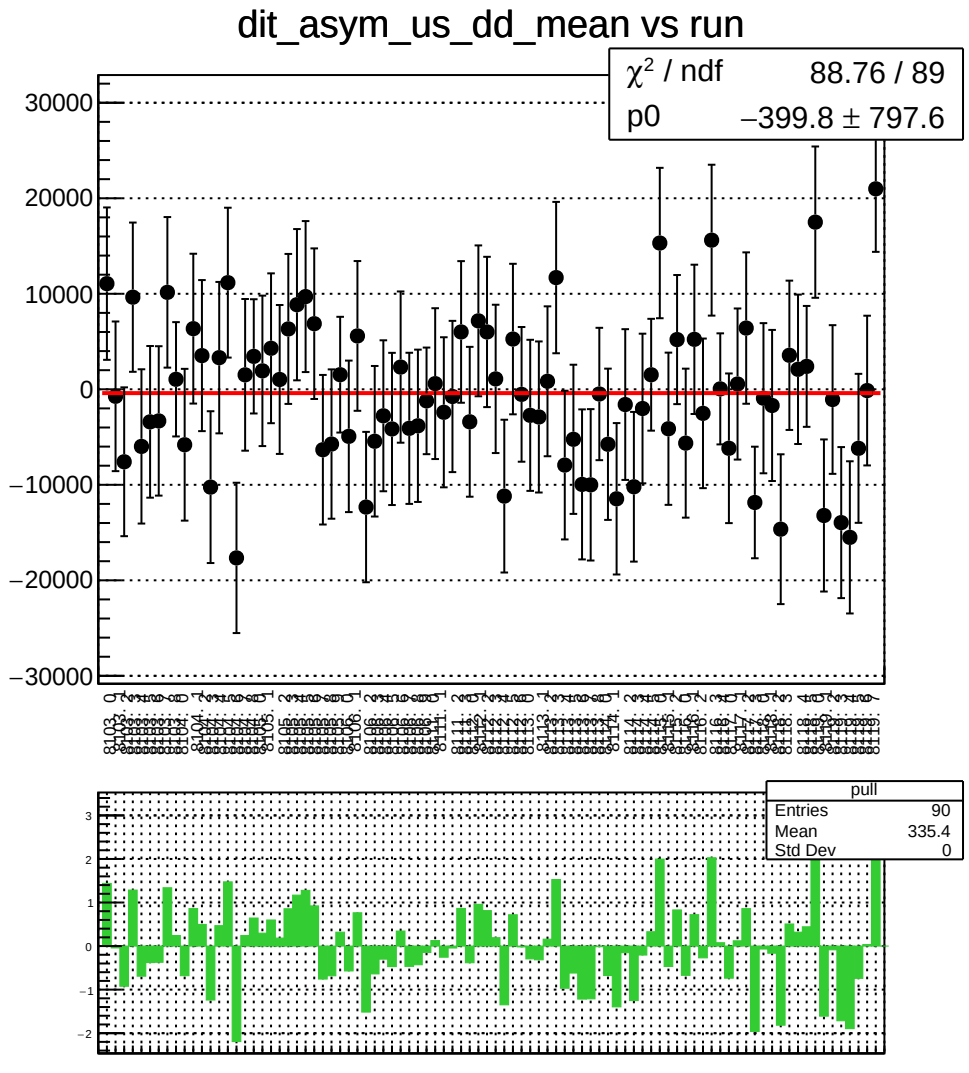

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 89.43 / 89
p0 −353.9 ± 797
pull
Entries 90
Mean 333.4
Std Dev 0
pull1D
Entries 90
Mean −0.008563
Std Dev 0.9968

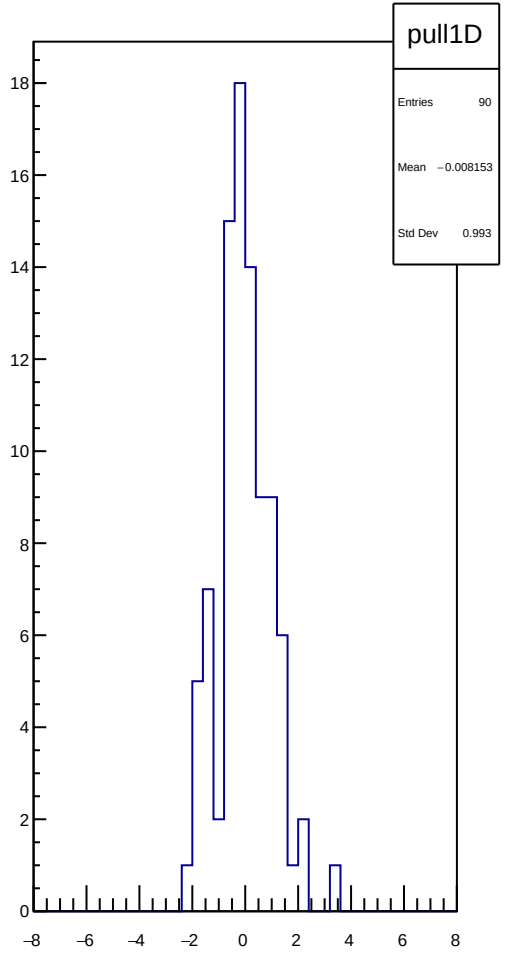

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 90.83 / 89
p0 747.3 ± 0.5636
775
770
765
760
755
750
745
740
735
730

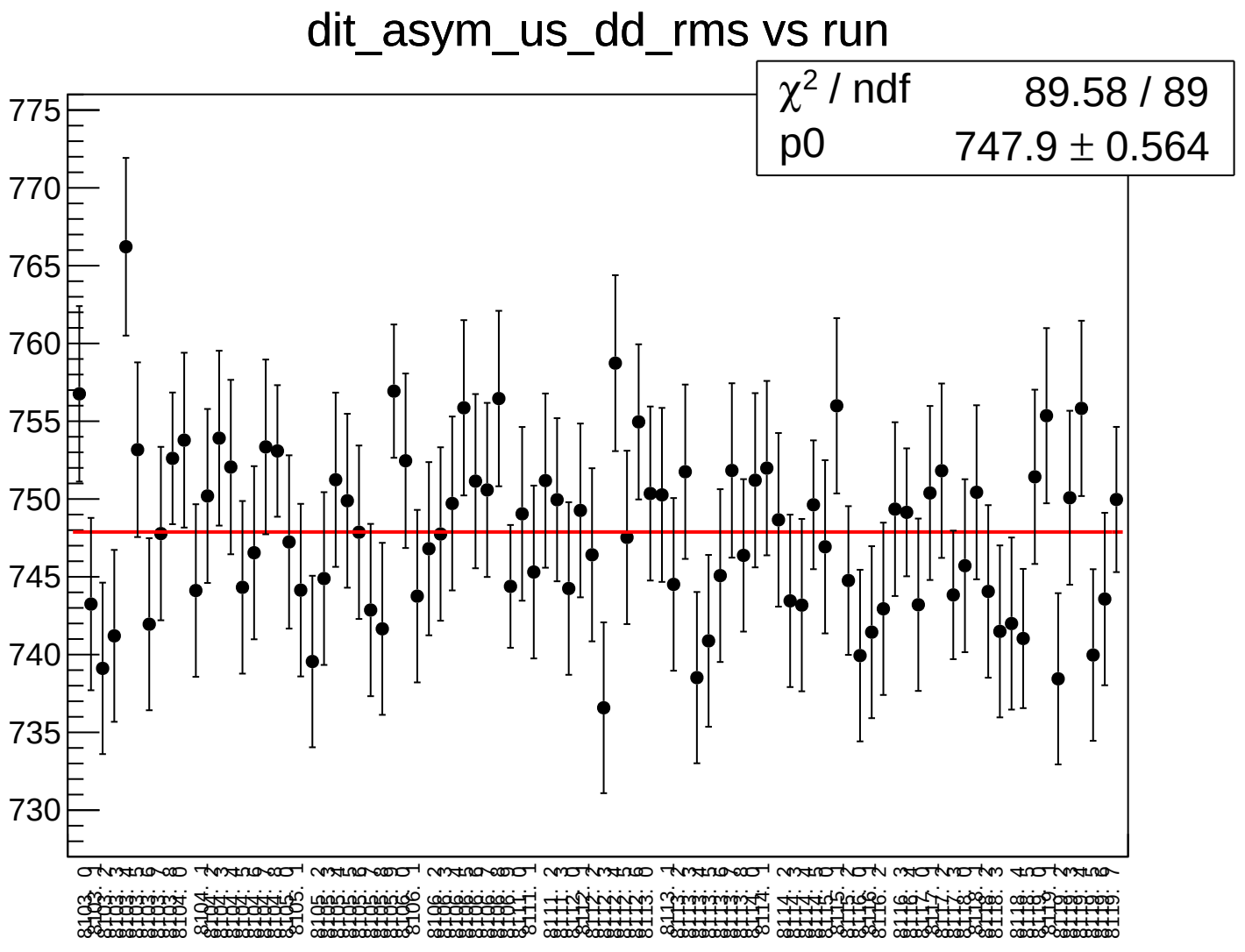

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.34 / 89
p0 −3025 ± 1312
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1539
Std Dev 0
3
2
1
0
−1
−2

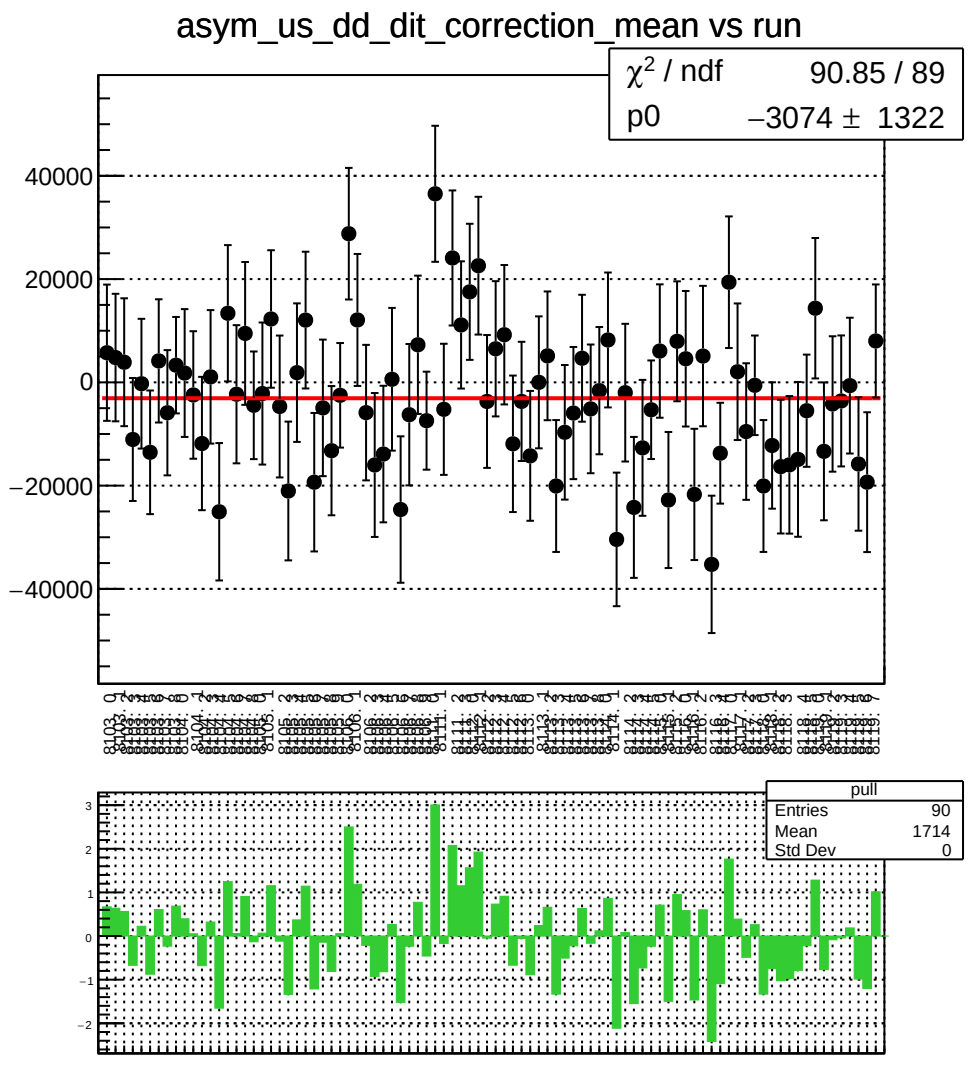

pull1D
Entries 90
Mean −0.003289
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

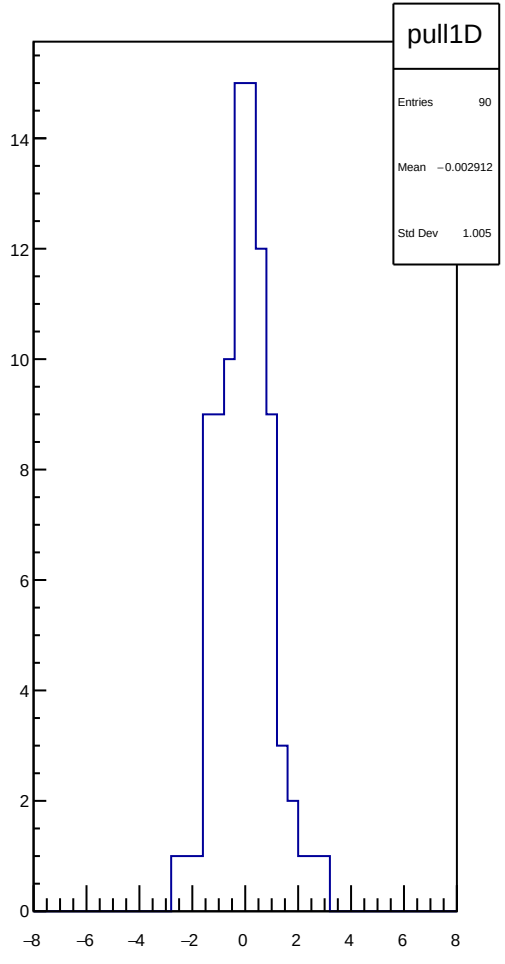

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2584 / 89
p0 1230 ± 0.928
1450
1400
1350
1300
1250
1200
1150
1100

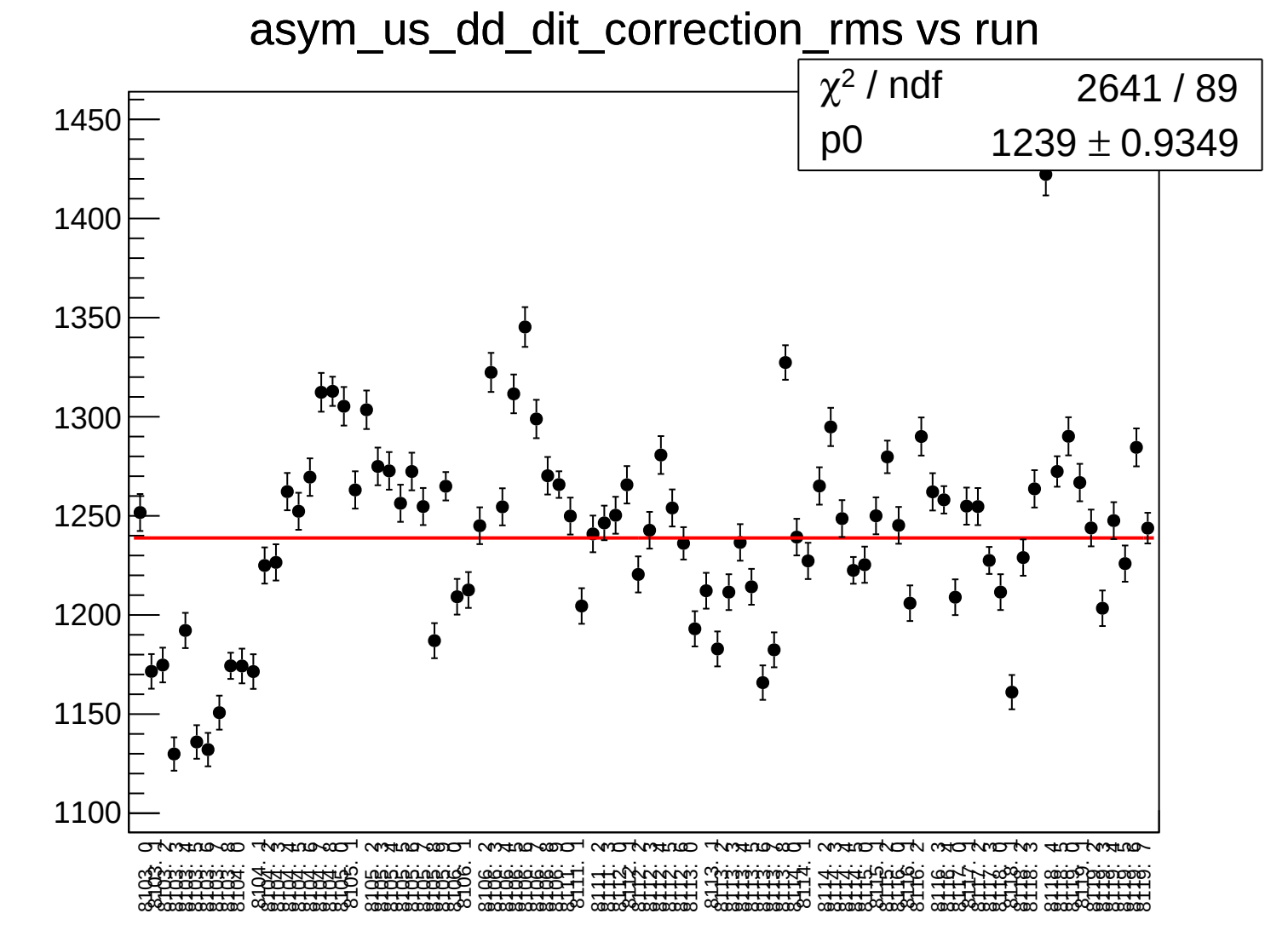

dit_asym_us_dd_mean vs run
χ² / ndf 88.76 / 89
p0 −399.8 ± 797.6
pull
Entries 90
Mean 335.4
Std Dev 0

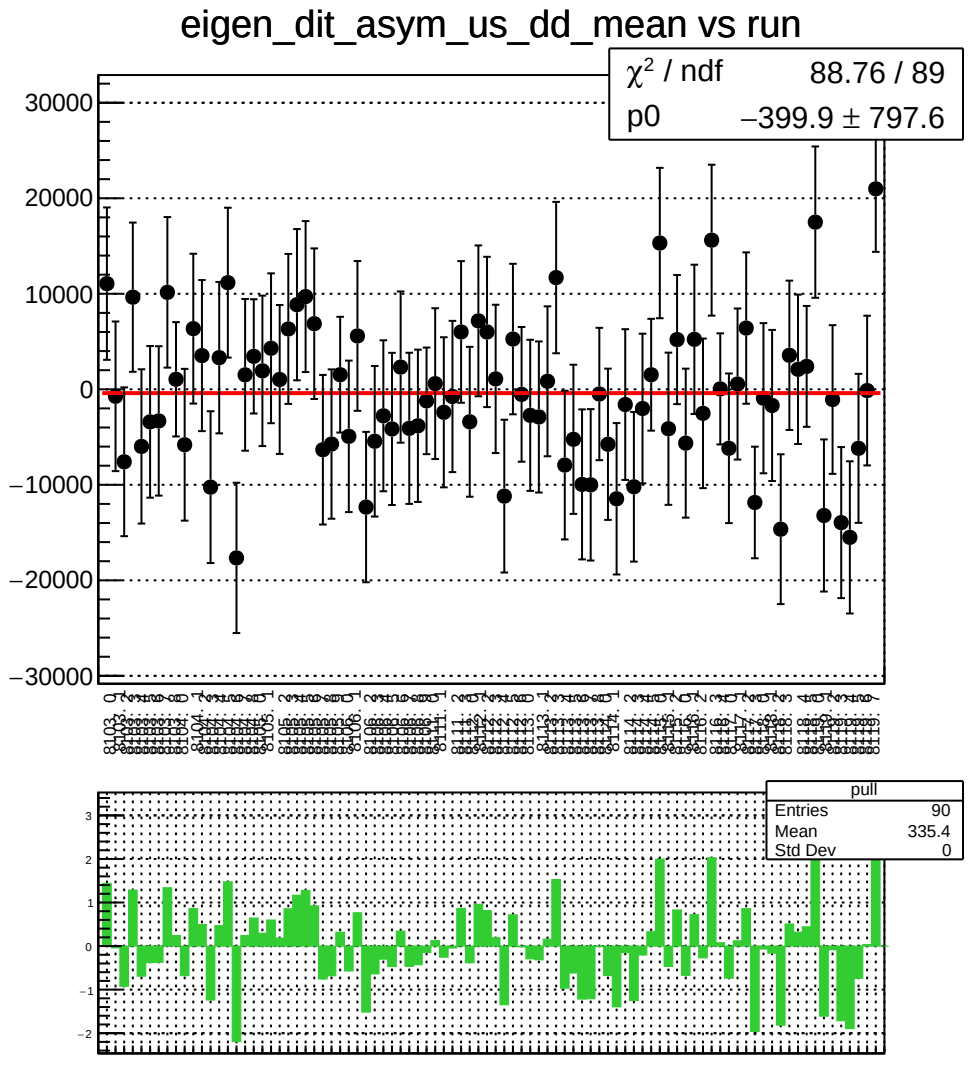

pull1D
Entries 90
Mean −0.008153
Std Dev 0.993

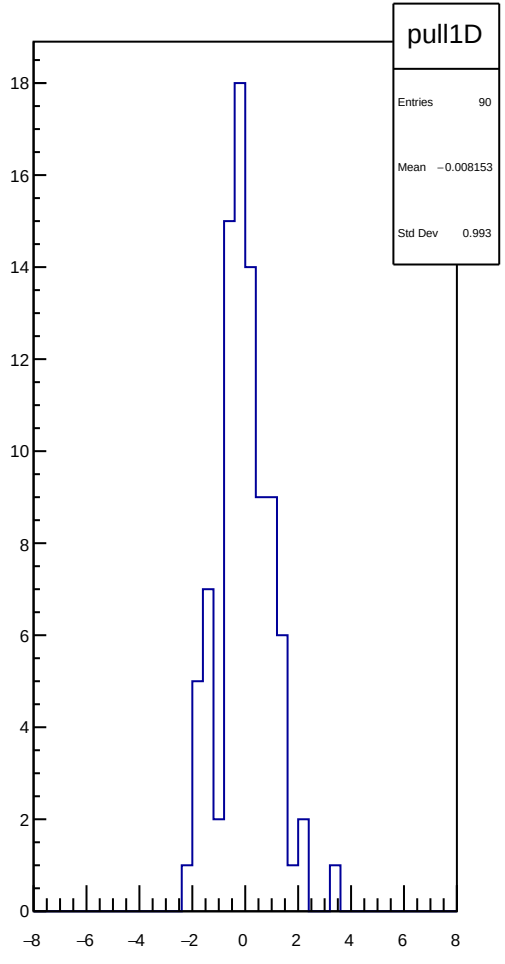

dit_asym_us_dd_rms vs run
χ^2 / ndf 89.58 / 89
p0 747.9 ± 0.564
775
770
765
760
755
750
745
740
735
730

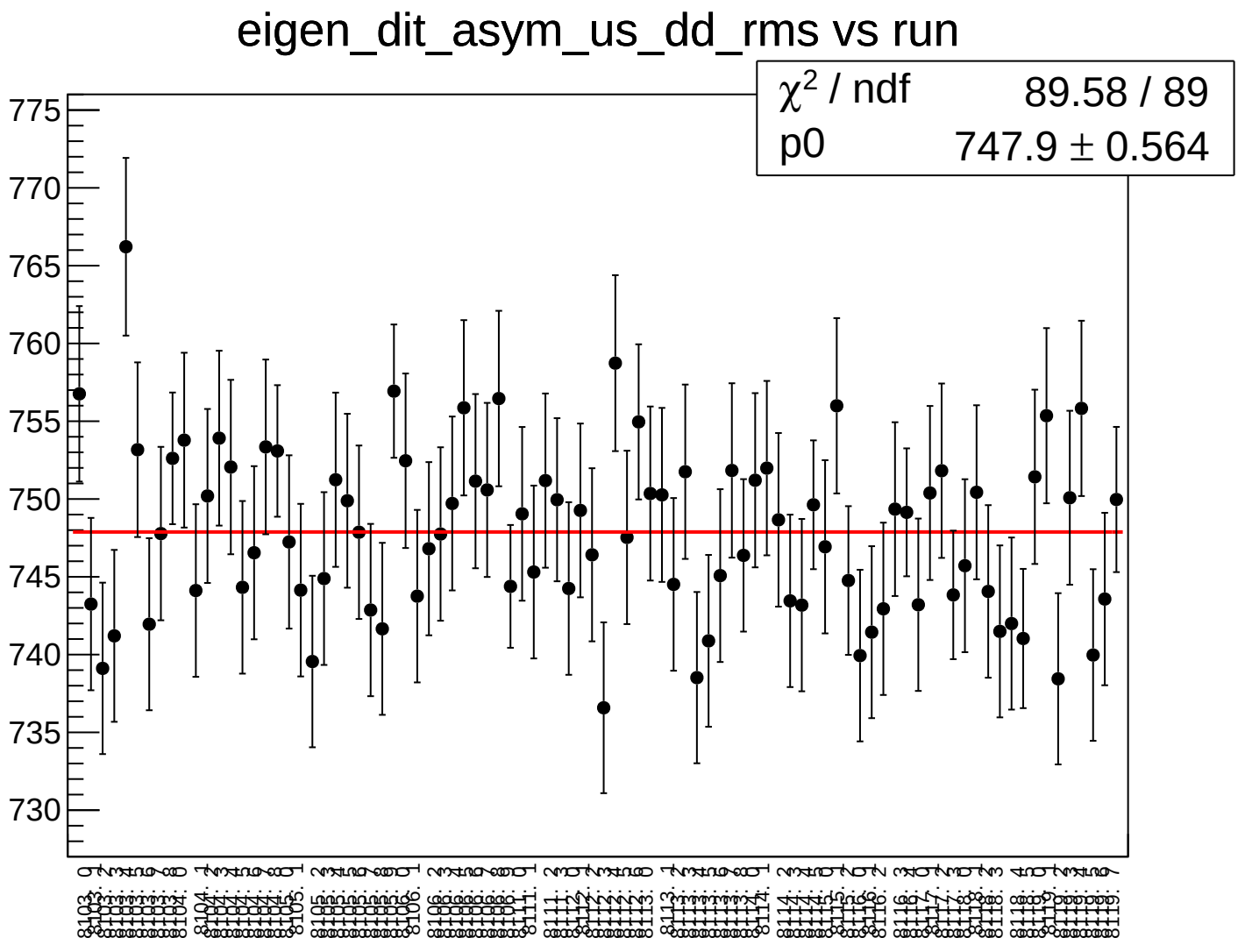

asym_us_dd_dit_correction_mean vs run
χ² / ndf 90.85 / 89
p0 −3074 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1714
Std Dev 0
3
2
1
0
−1
−2

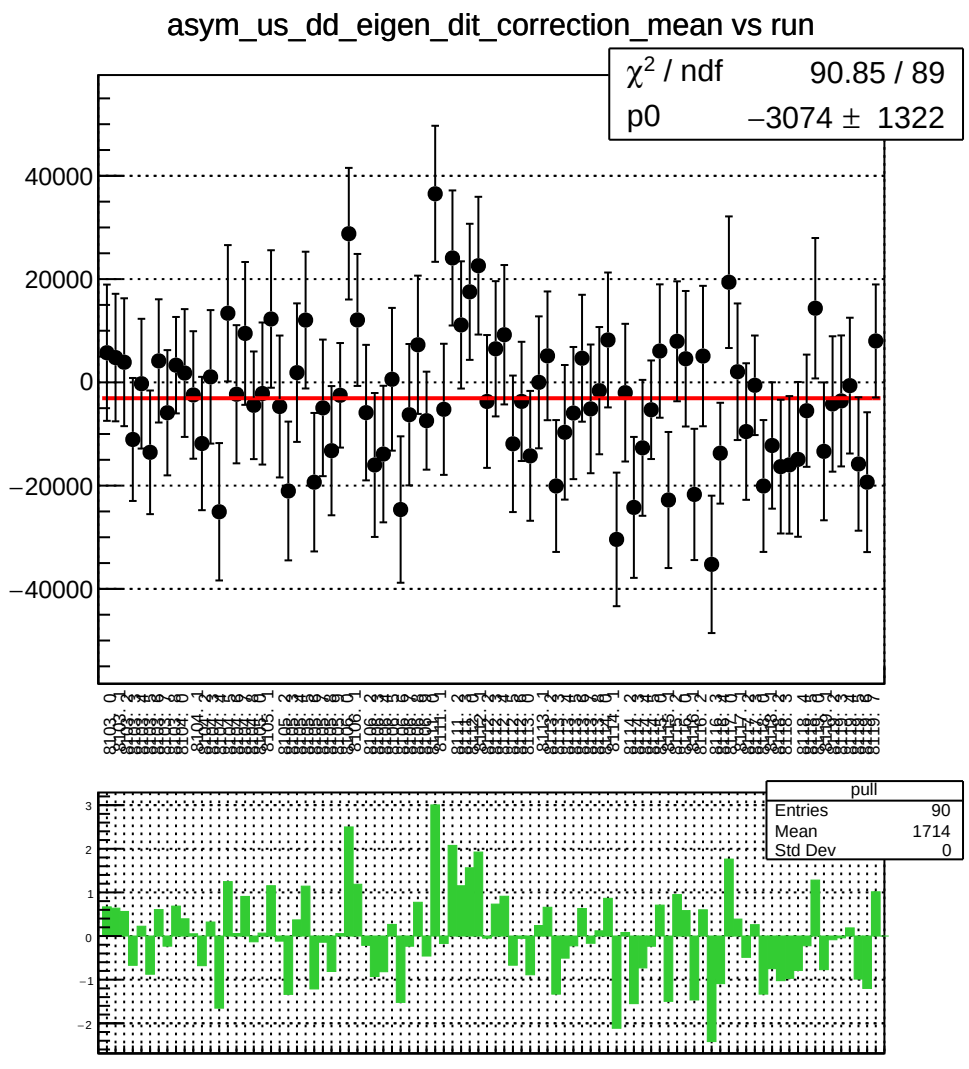

pull1D
Entries 90
Mean −0.002912
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

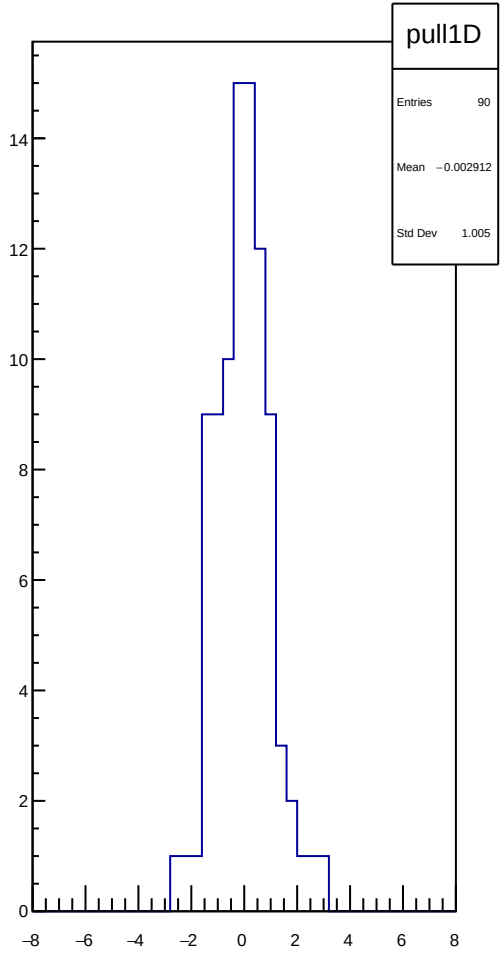

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2641 / 89
p0 1239 ± 0.9349
1450
1400
1350
1300
1250
1200
1150
1100

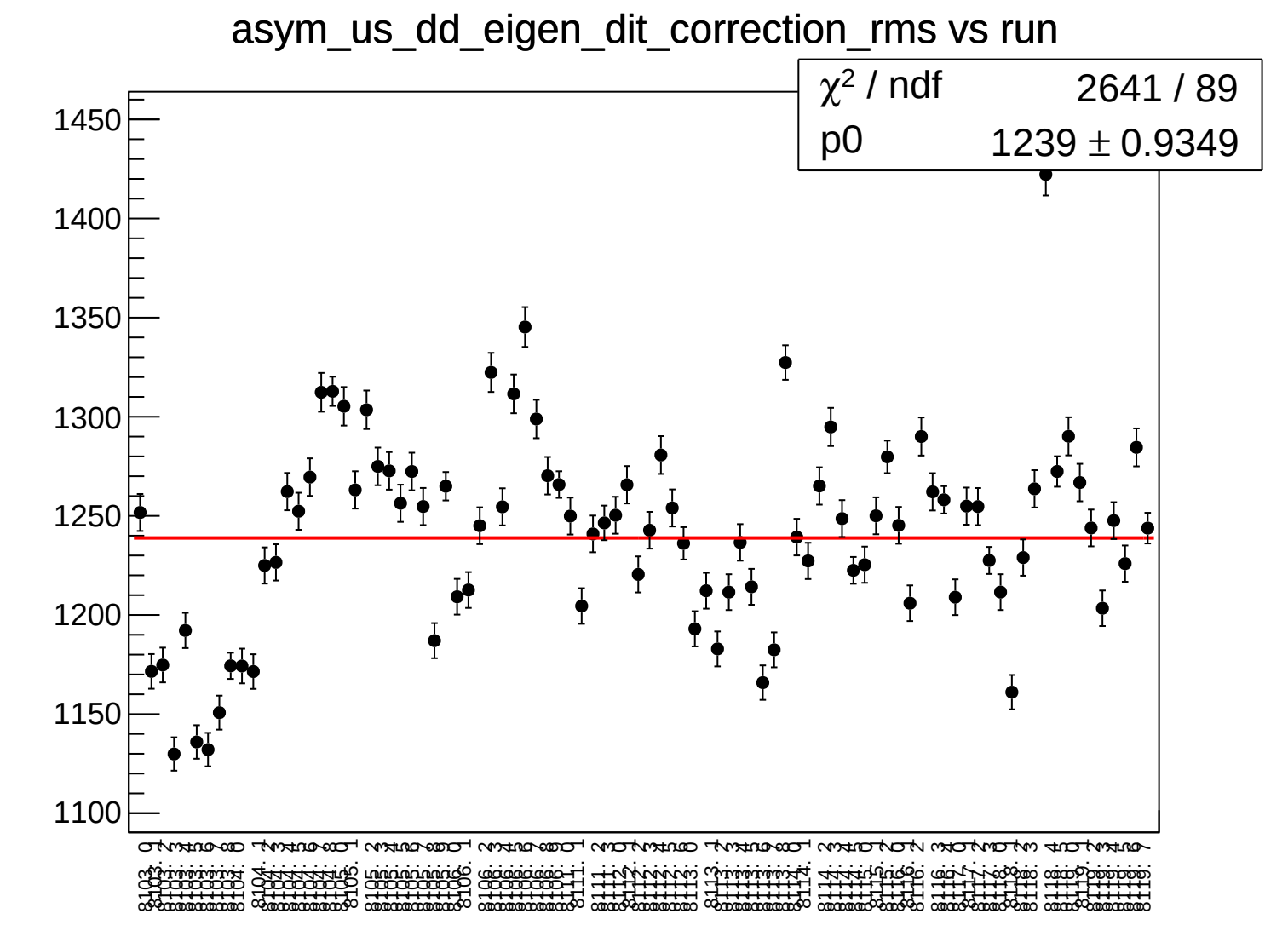

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 88.76 / 89
p0 −399.9 ± 797.6
pull
Entries 90
Mean 335.4
Std Dev 0

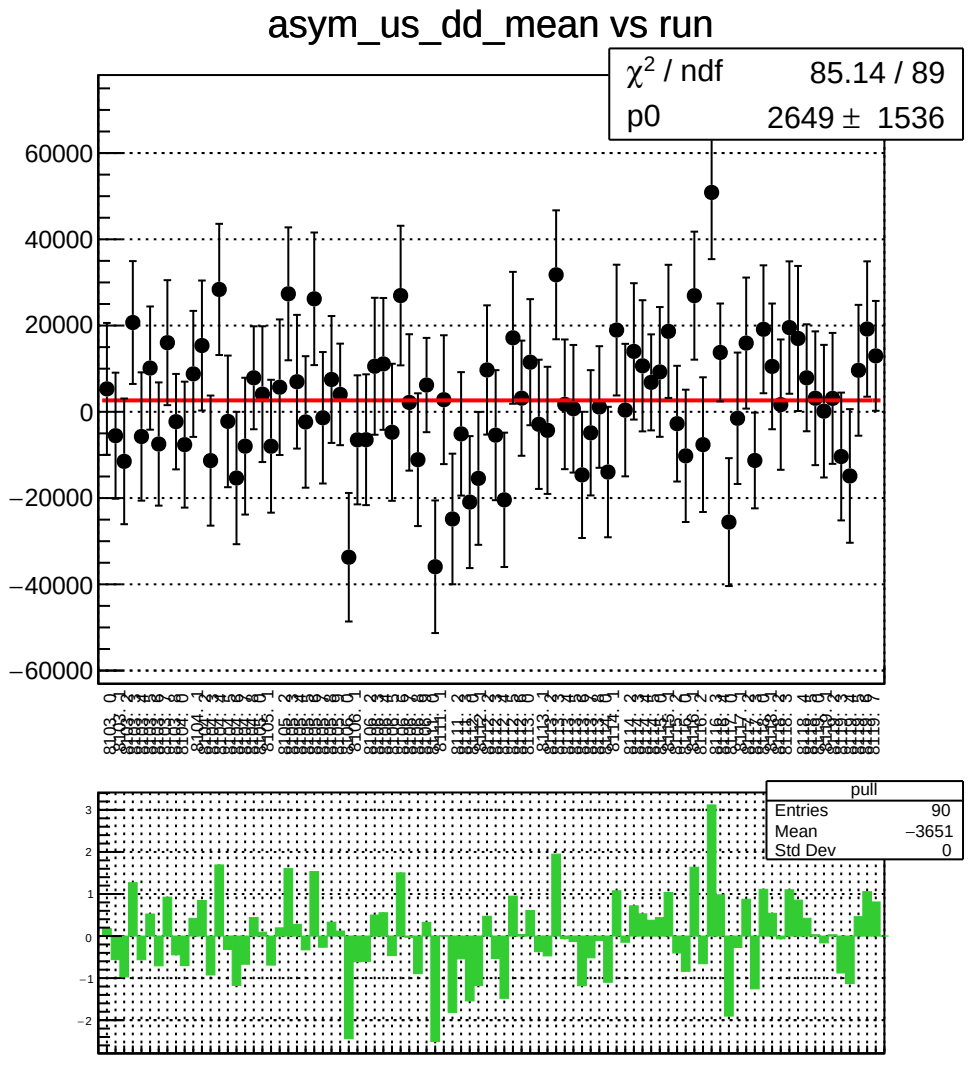

pull1D
Entries 90
Mean −0.008153
Std Dev 0.993

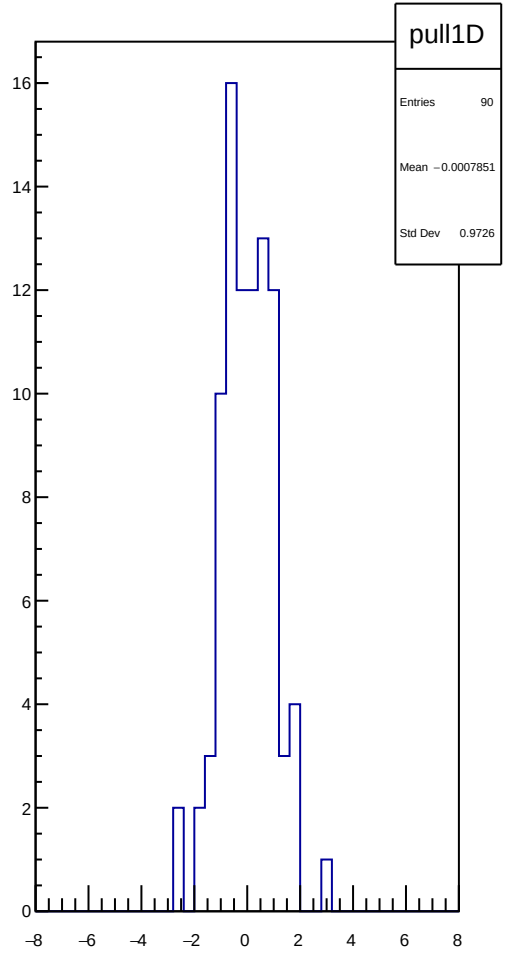

eigen_dit_asym_us_dd_rms vs run
χ^2 / ndf 89.58 / 89
p0 747.9 ± 0.564
775
770
765
760
755
750
745
740
735
730

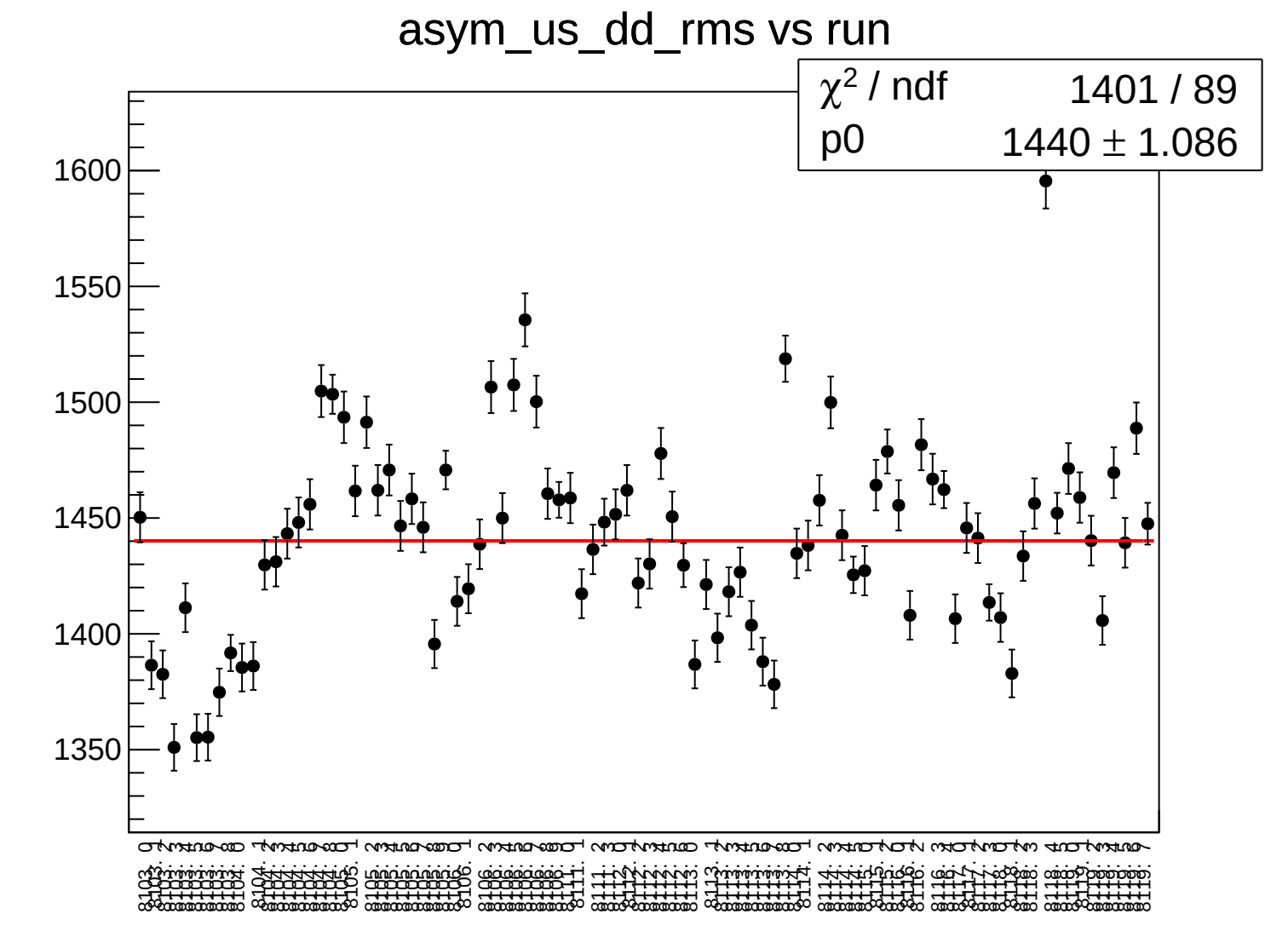

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.85 / 89
p0 −3074 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1714
Std Dev 0
3
2
1
0
−1
−2

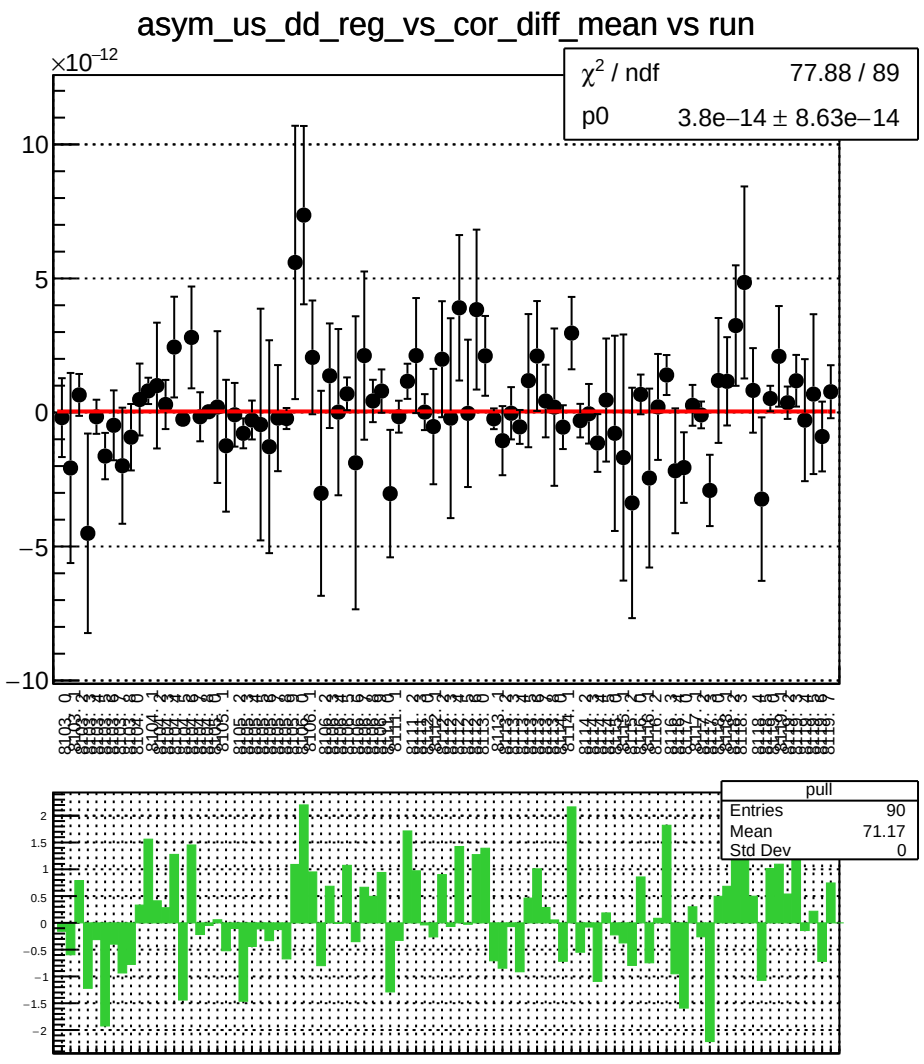

pull1D
Entries 90
Mean −0.002912
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

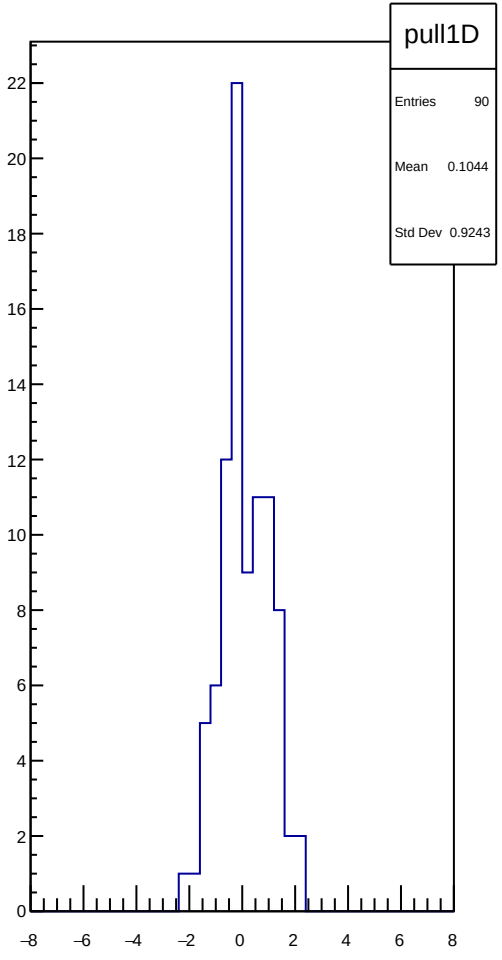

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2641 / 89
p0 1239 ± 0.9349
1450
1400
1350
1300
1250
1200
1150
1100

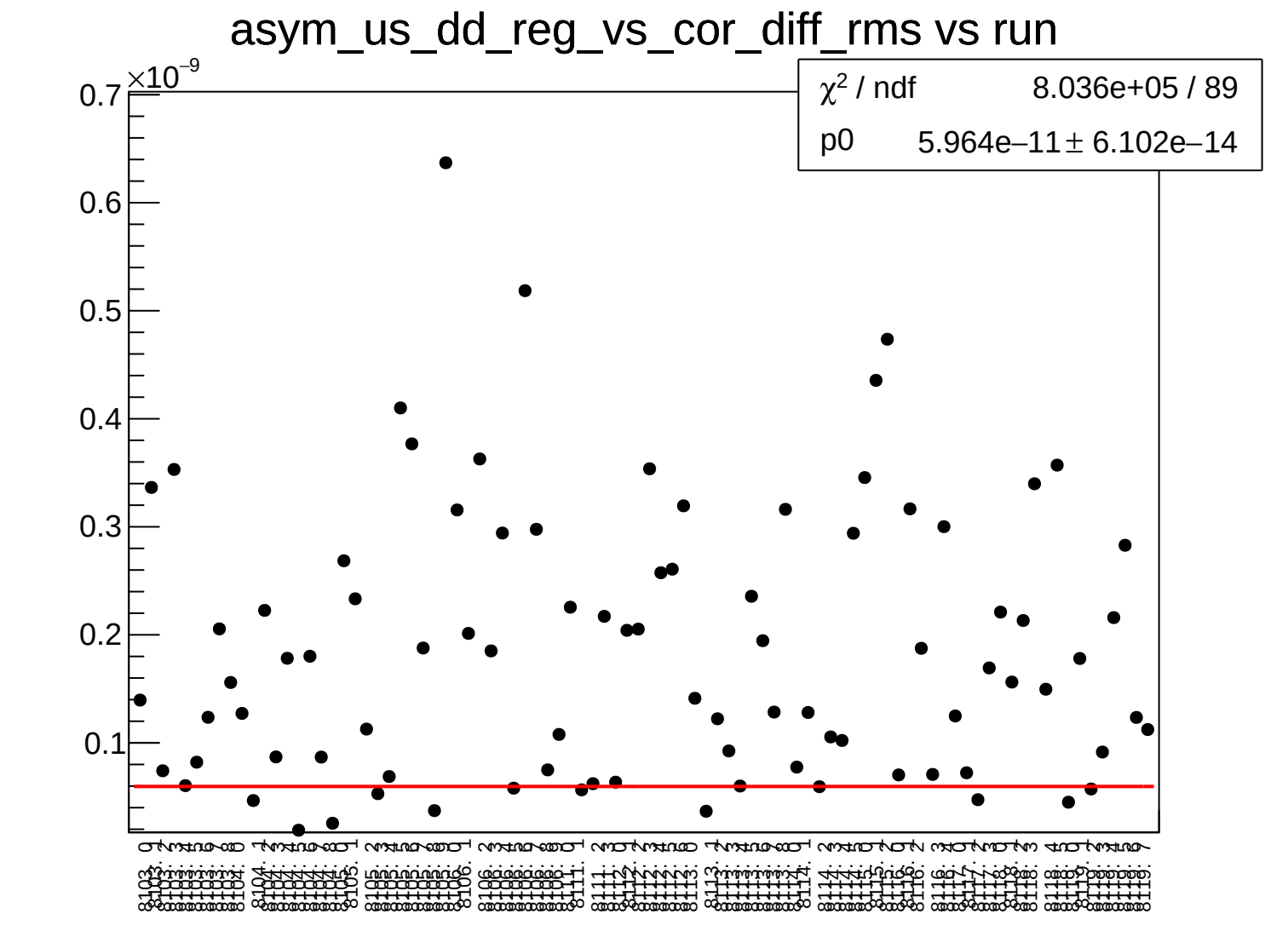

asym_us_dd_mean vs run
χ² / ndf 85.14 / 89
p0 2649 ± 1536
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −3651
Std Dev 0
3
2
1
0
−1
−2

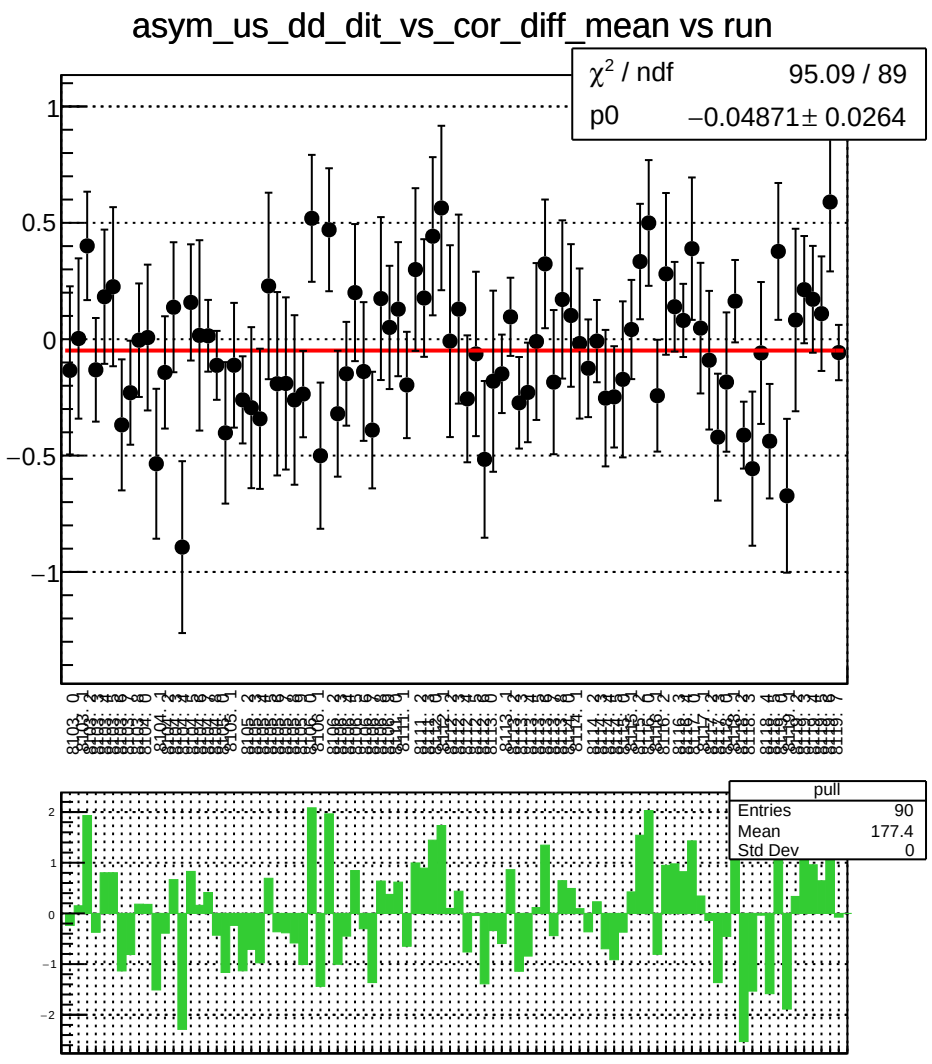

pull1D
Entries 90
Mean −0.0007851
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

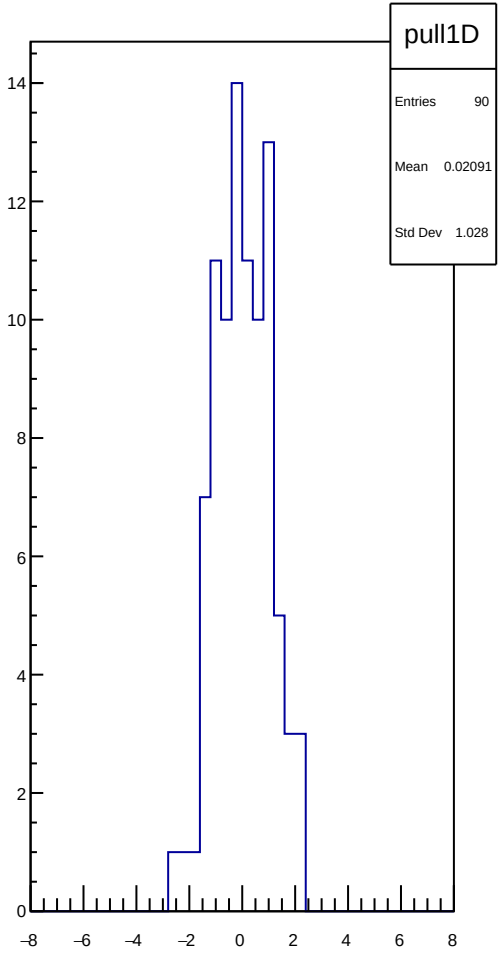

asym_us_dd_rms vs run
χ² / ndf 1401 / 89
p0 1440 ± 1.086
1600
1550
1500
1450
1400
1350

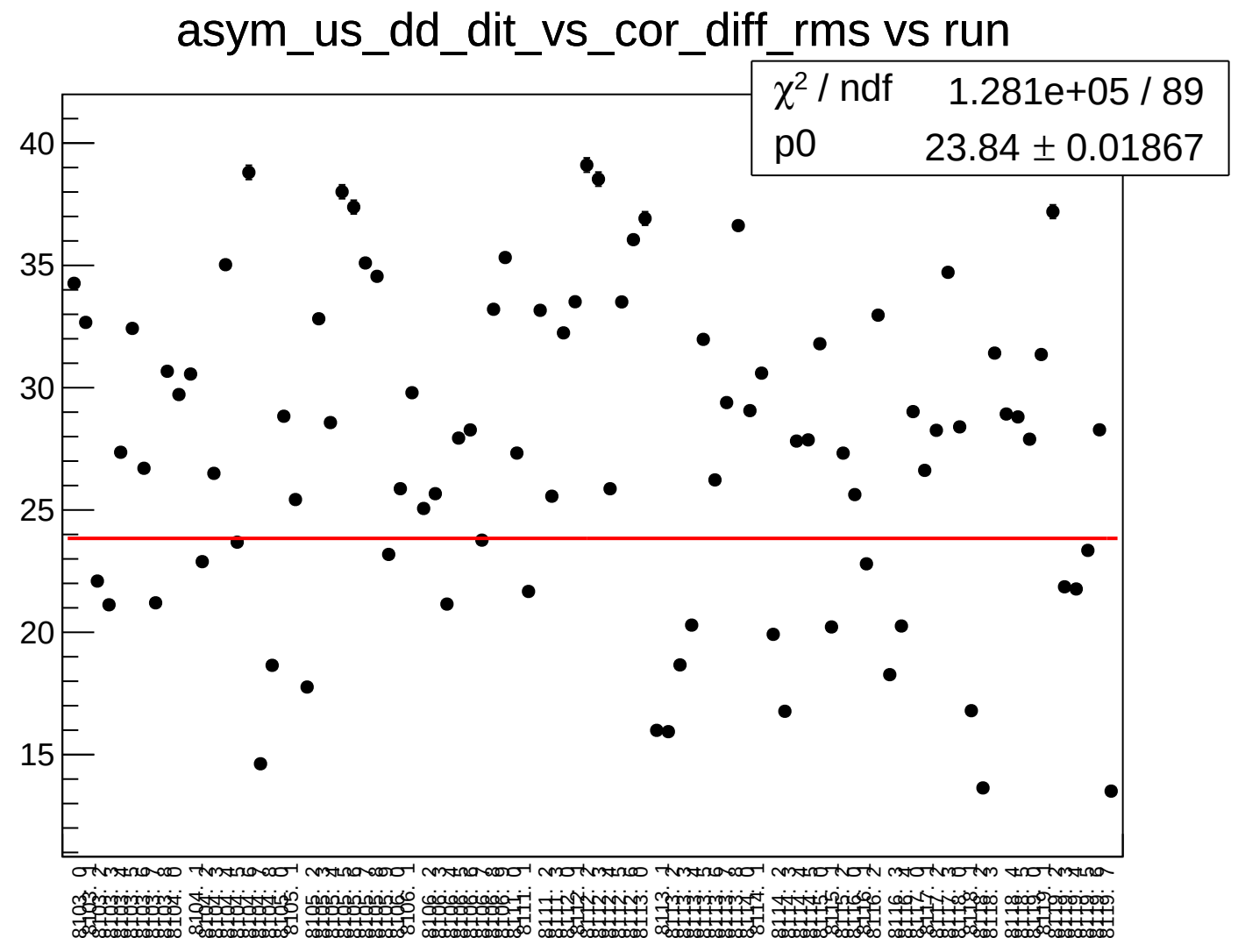

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.88 / 89
p0 3.8e−14 ± 8.63e−14
10
5
0
−5
−10
pull
Entries 90
Mean 71.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

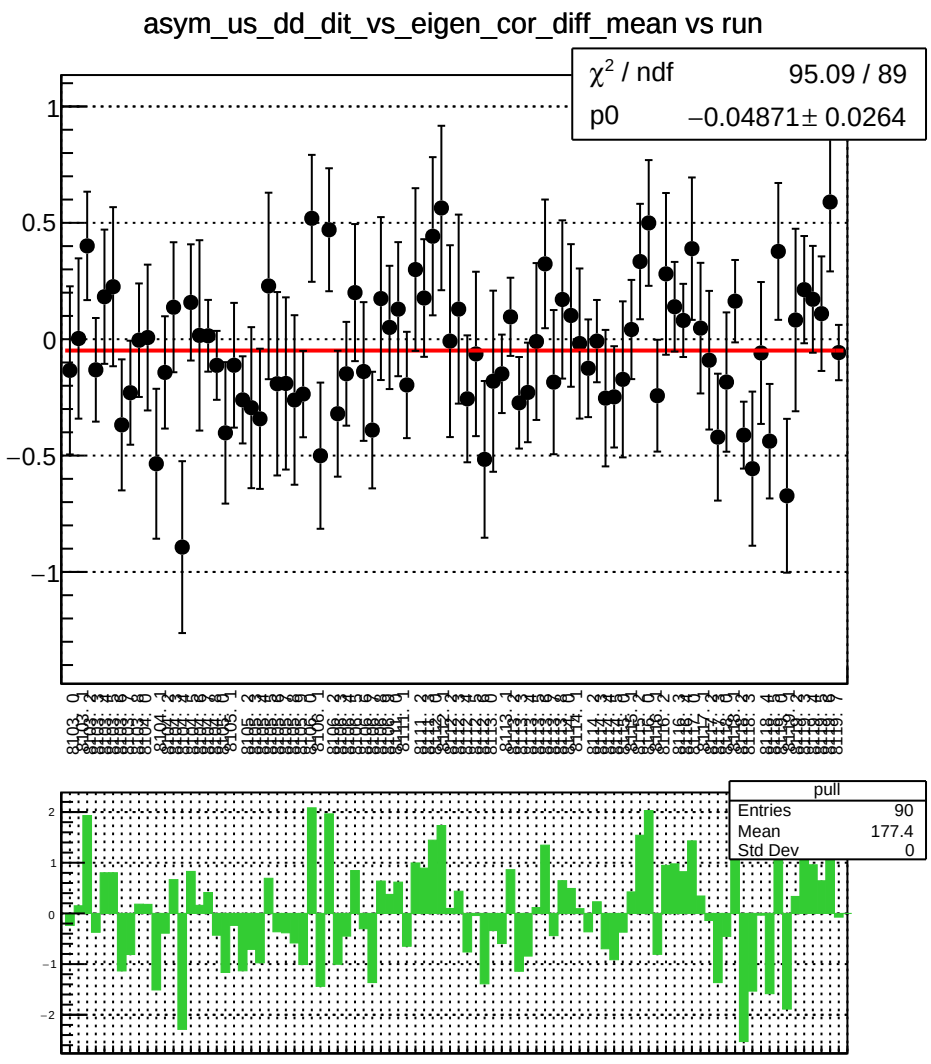

pull1D
Entries 90
Mean 0.1044
Std Dev 0.9243
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

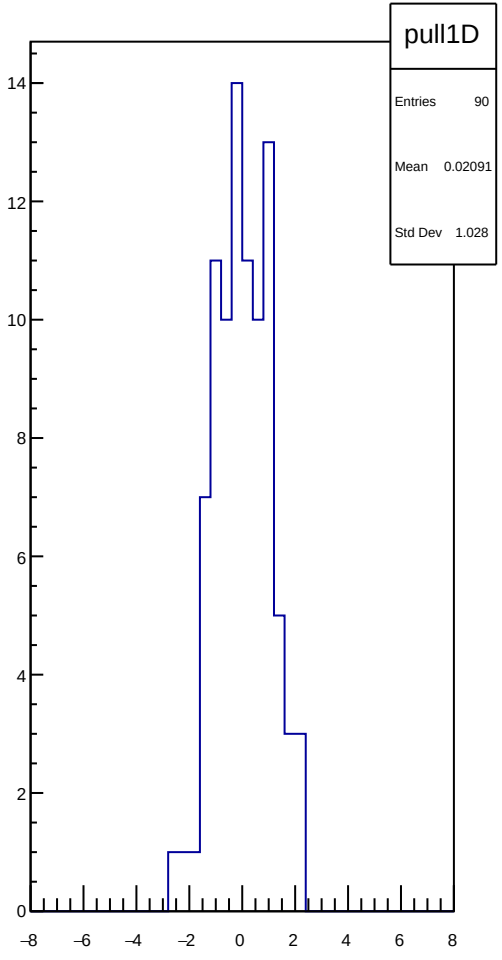

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.036e+05 / 89
p0 5.964e−11 ± 6.102e−14

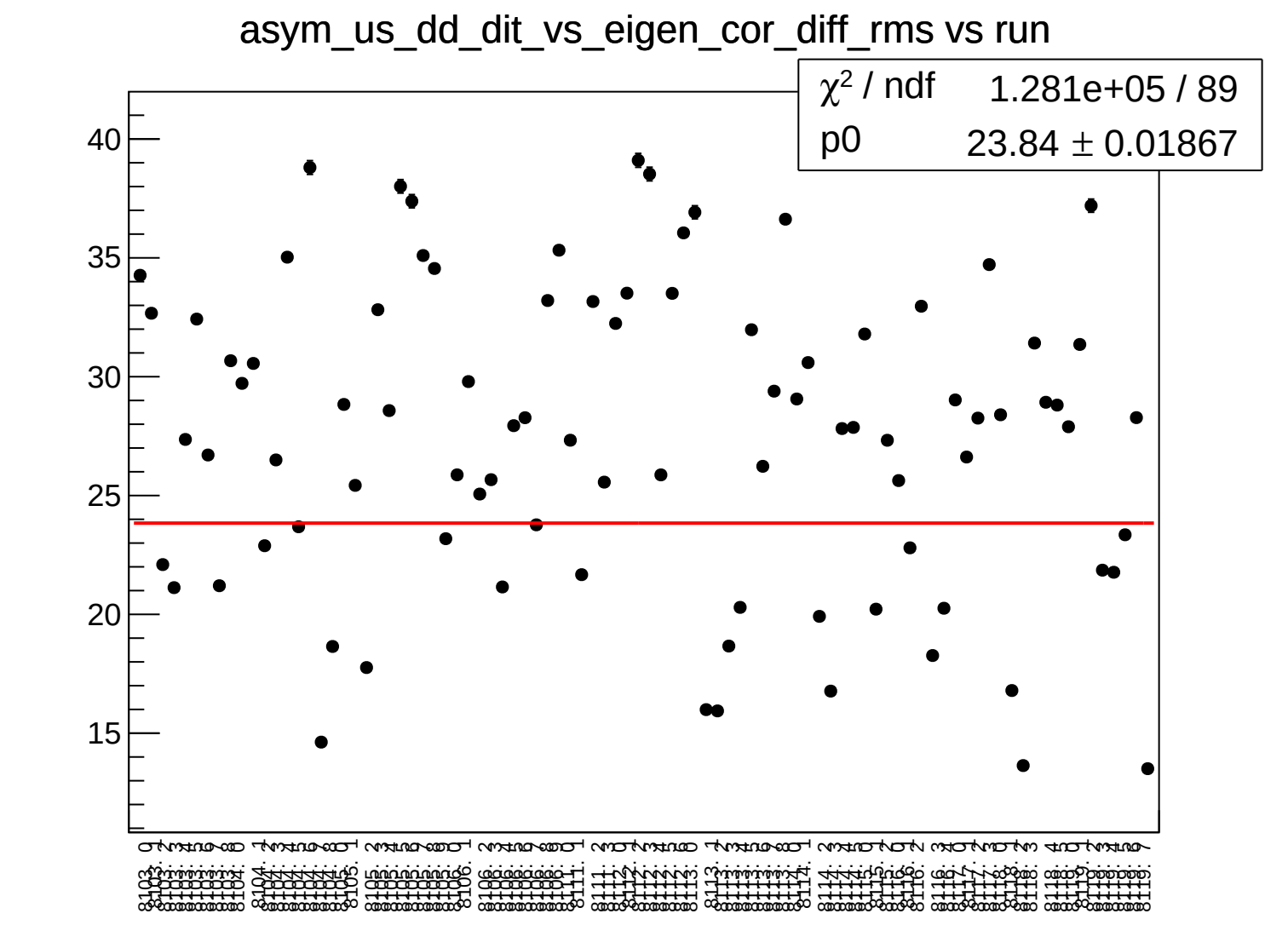

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.09 / 89
p0 −0.04871± 0.0264
pull
Entries 90
Mean 177.4
Std Dev 0

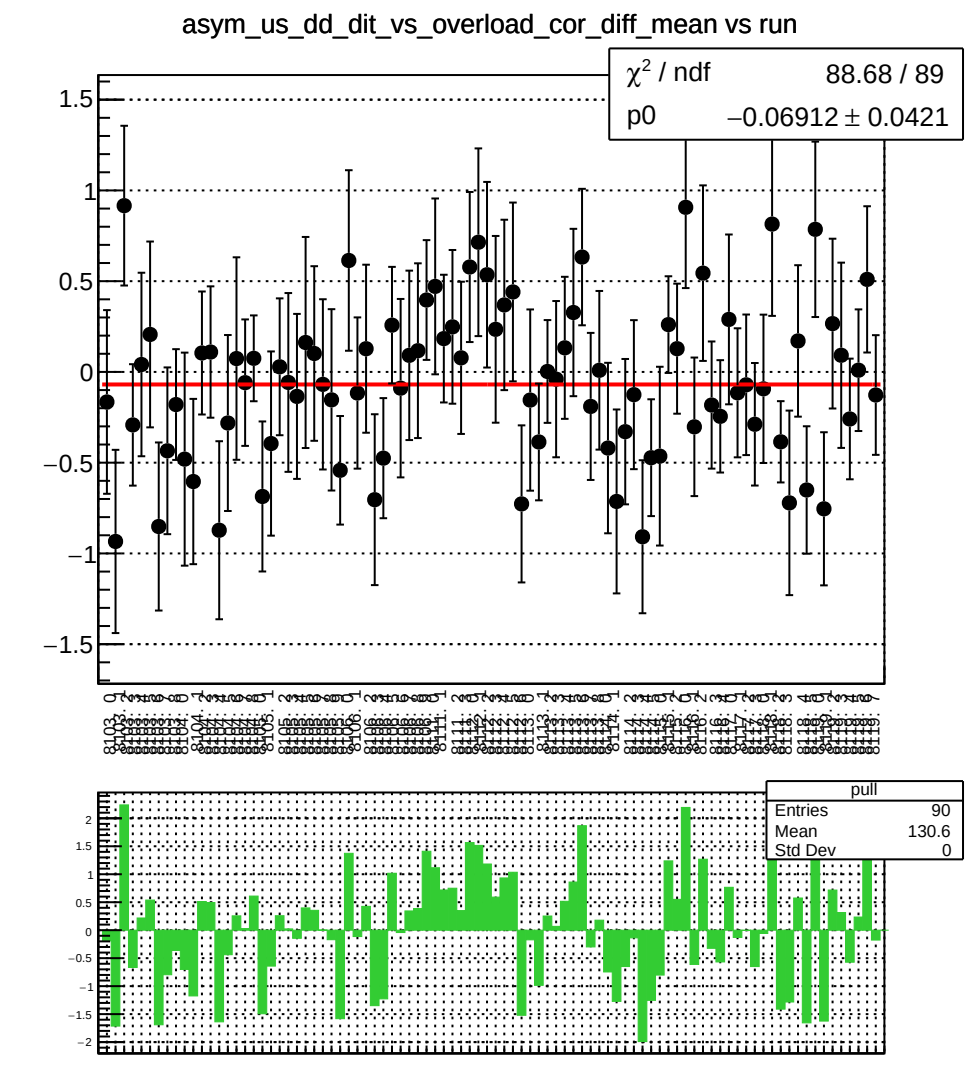

pull1D
Entries 90
Mean 0.02091
Std Dev 1.028

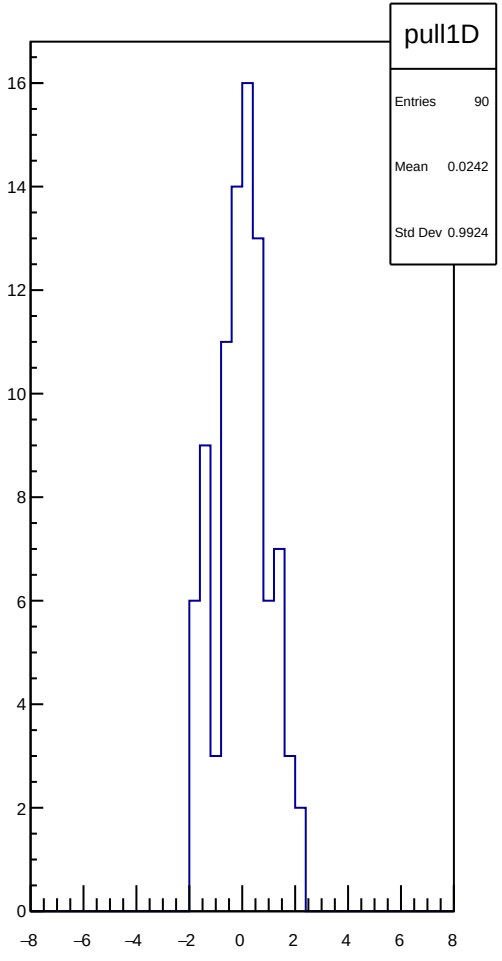

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.281e+05 / 89
p0 23.84 ± 0.01867
40
35
30
25
20
15

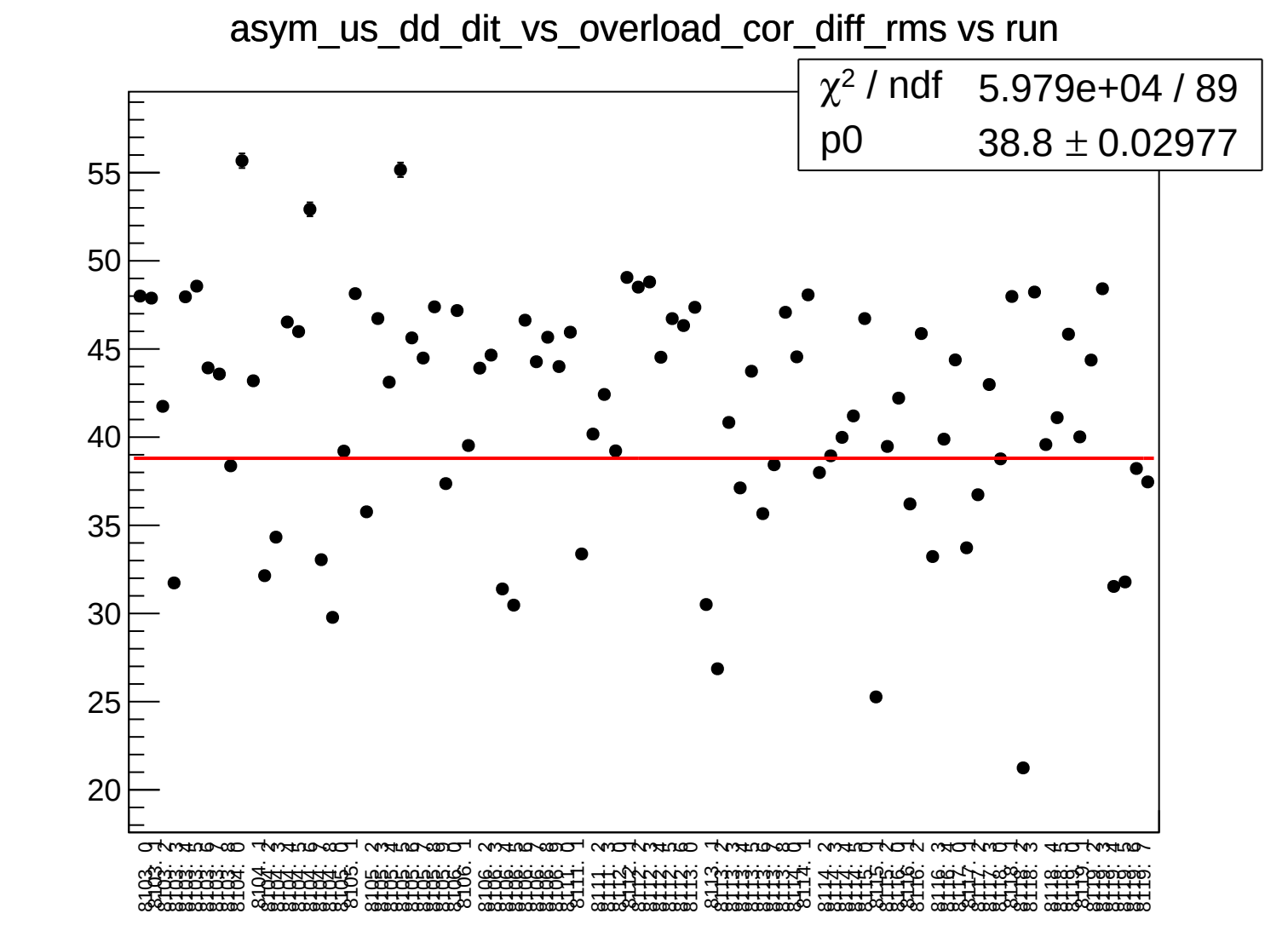

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.09 / 89
p0 −0.04871± 0.0264
pull
Entries 90
Mean 177.4
Std Dev 0

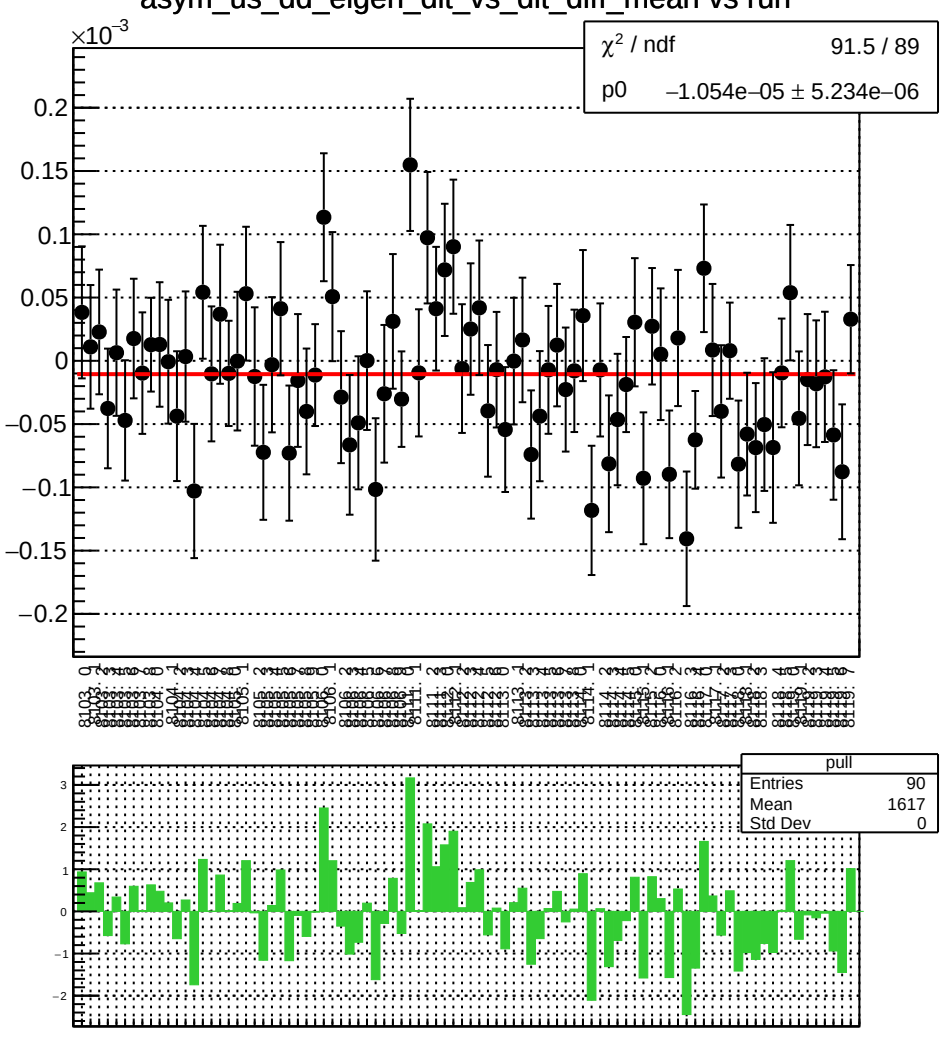

pull1D
Entries 90
Mean 0.02091
Std Dev 1.028

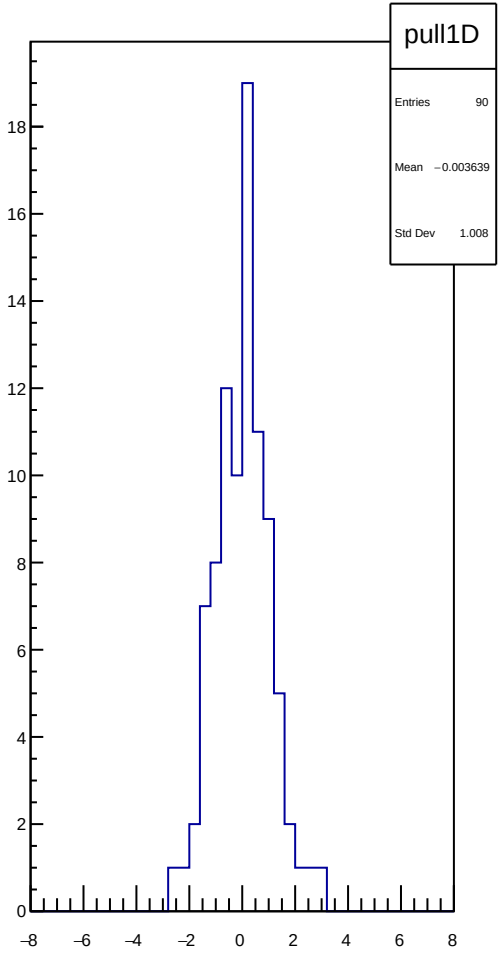

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.281e+05 / 89
p0 23.84 ± 0.01867
40
35
30
25
20
15

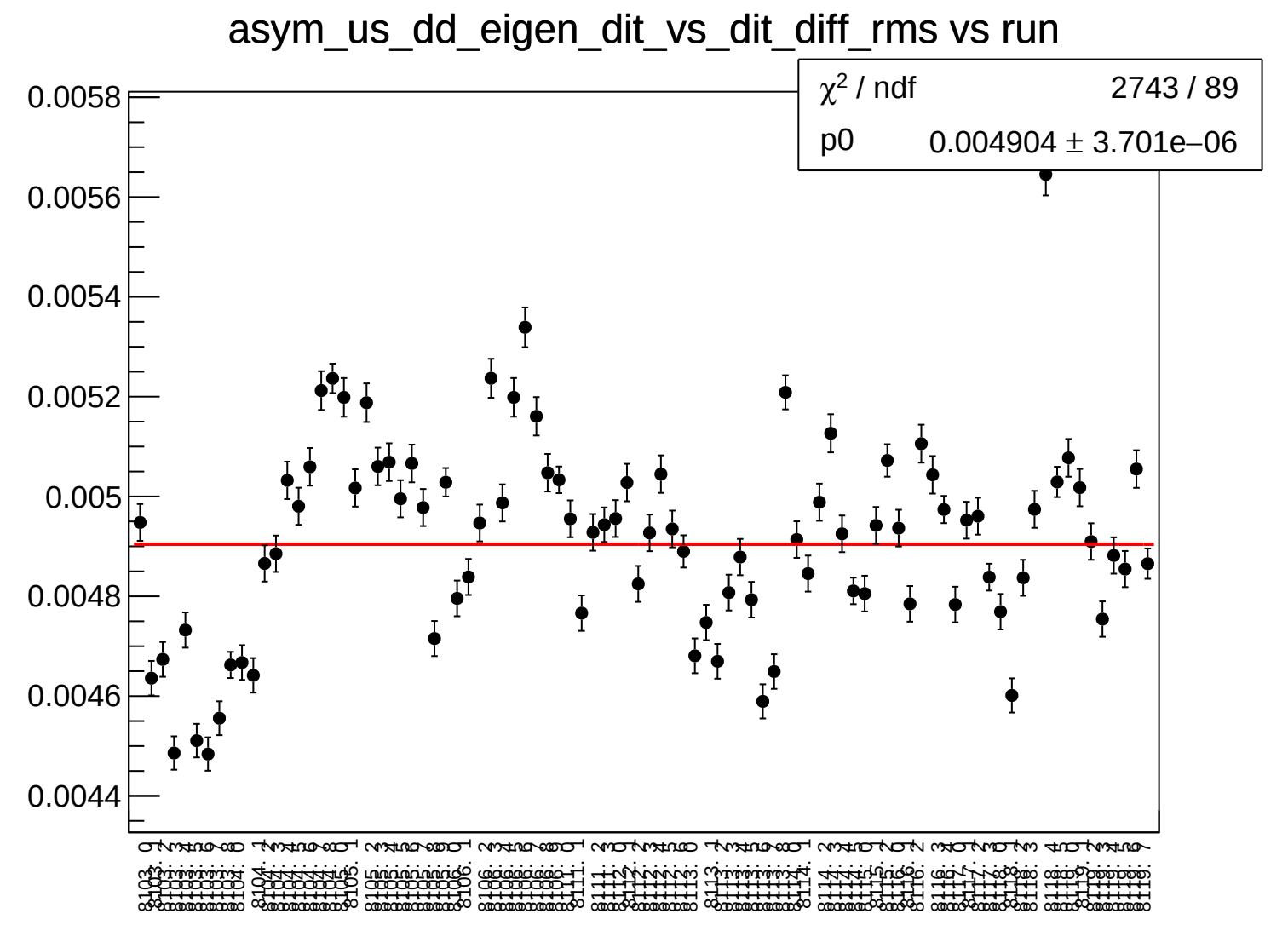

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.68 / 89
p0 −0.06912 ± 0.0421
pull
Entries 90
Mean 130.6
Std Dev 0

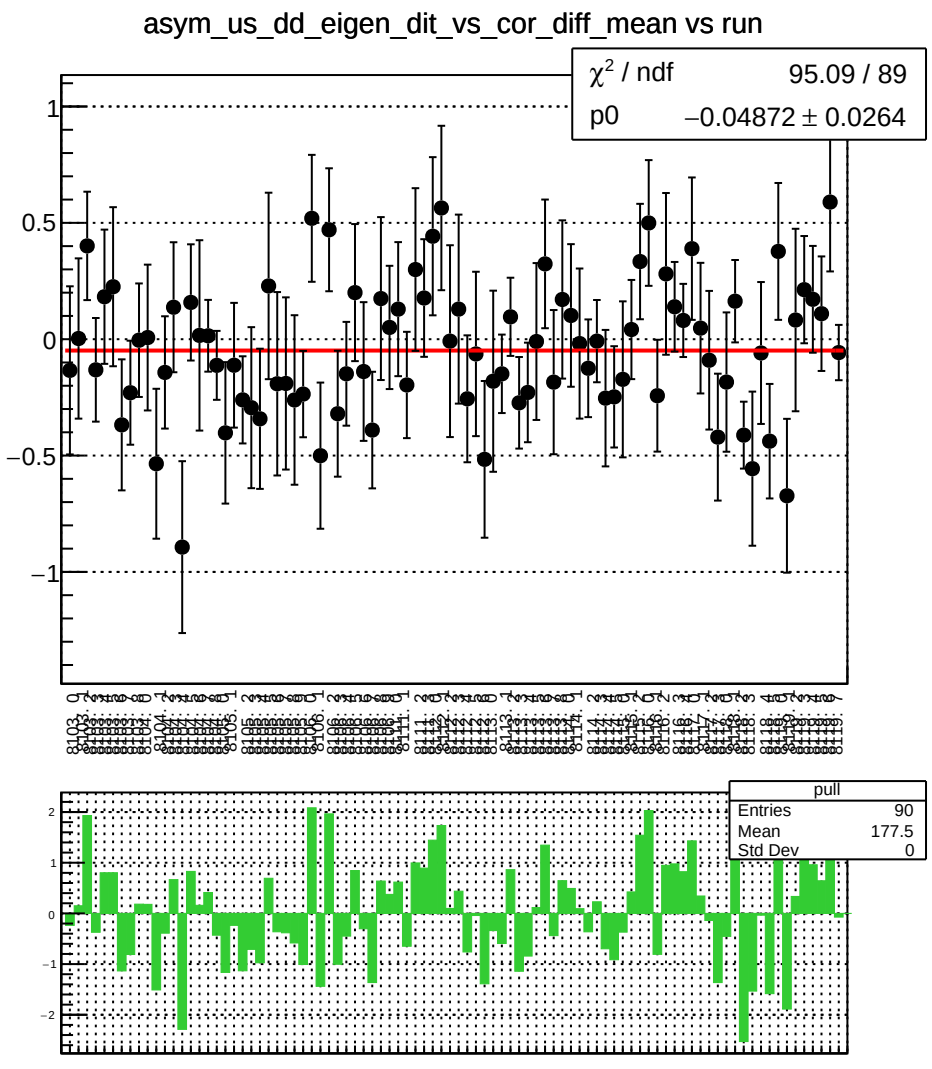

pull1D
Entries 90
Mean 0.0242
Std Dev 0.9924

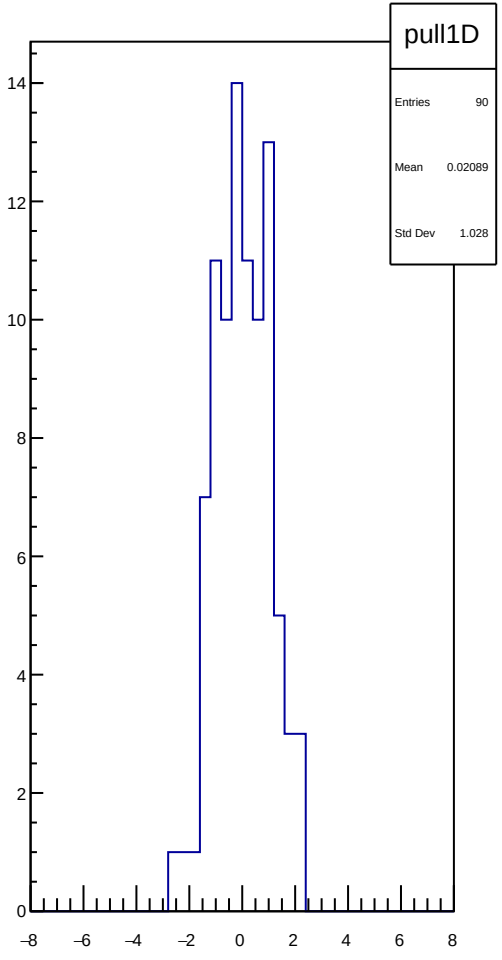

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.979e+04 / 89
p0 38.8 ± 0.02977
55
50
45
40
35
30
25
20

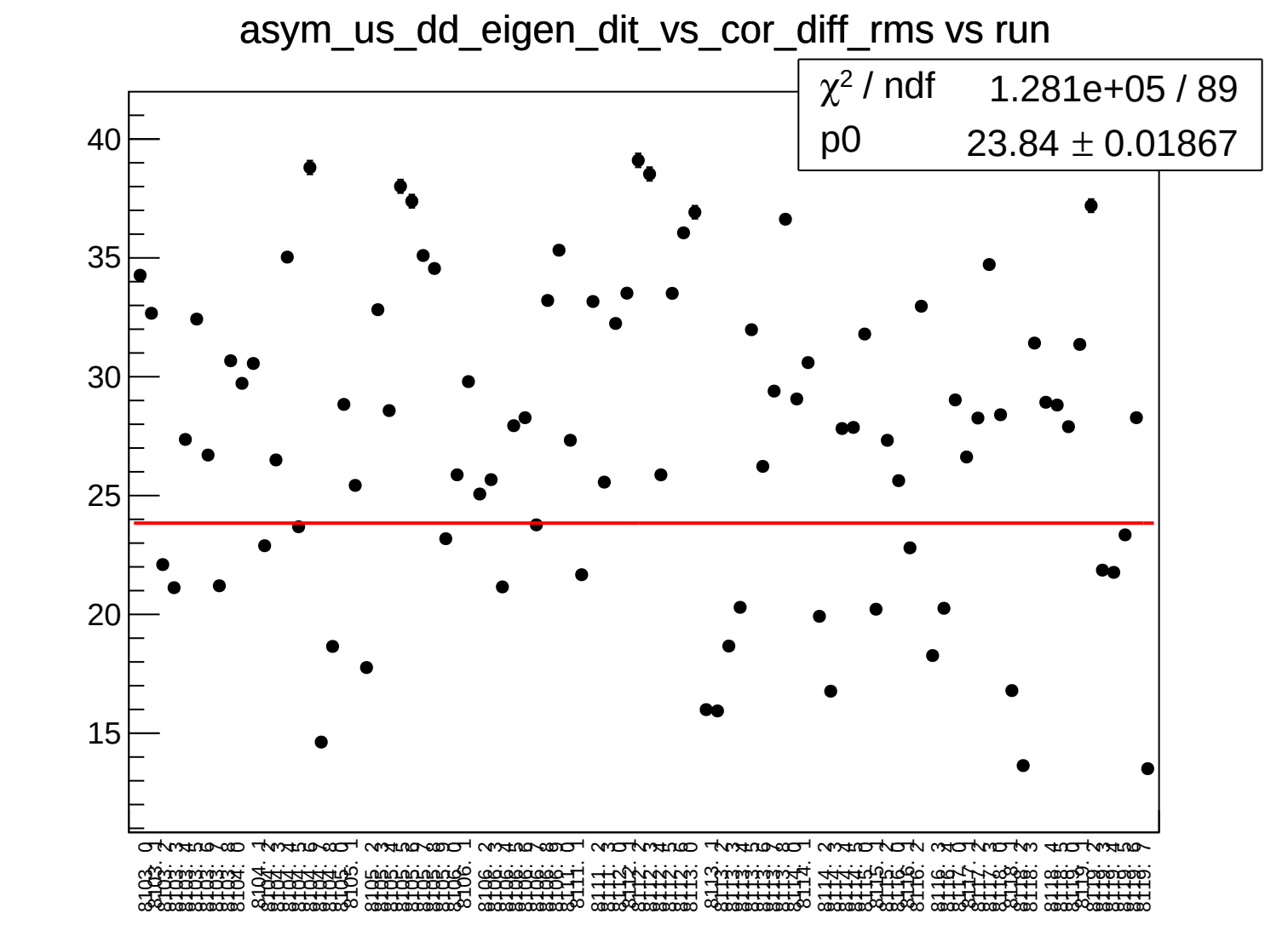

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.5 / 89
p0 −1.054e−05 ± 5.234e−06
pull
Entries 90
Mean 1617
Std Dev 0

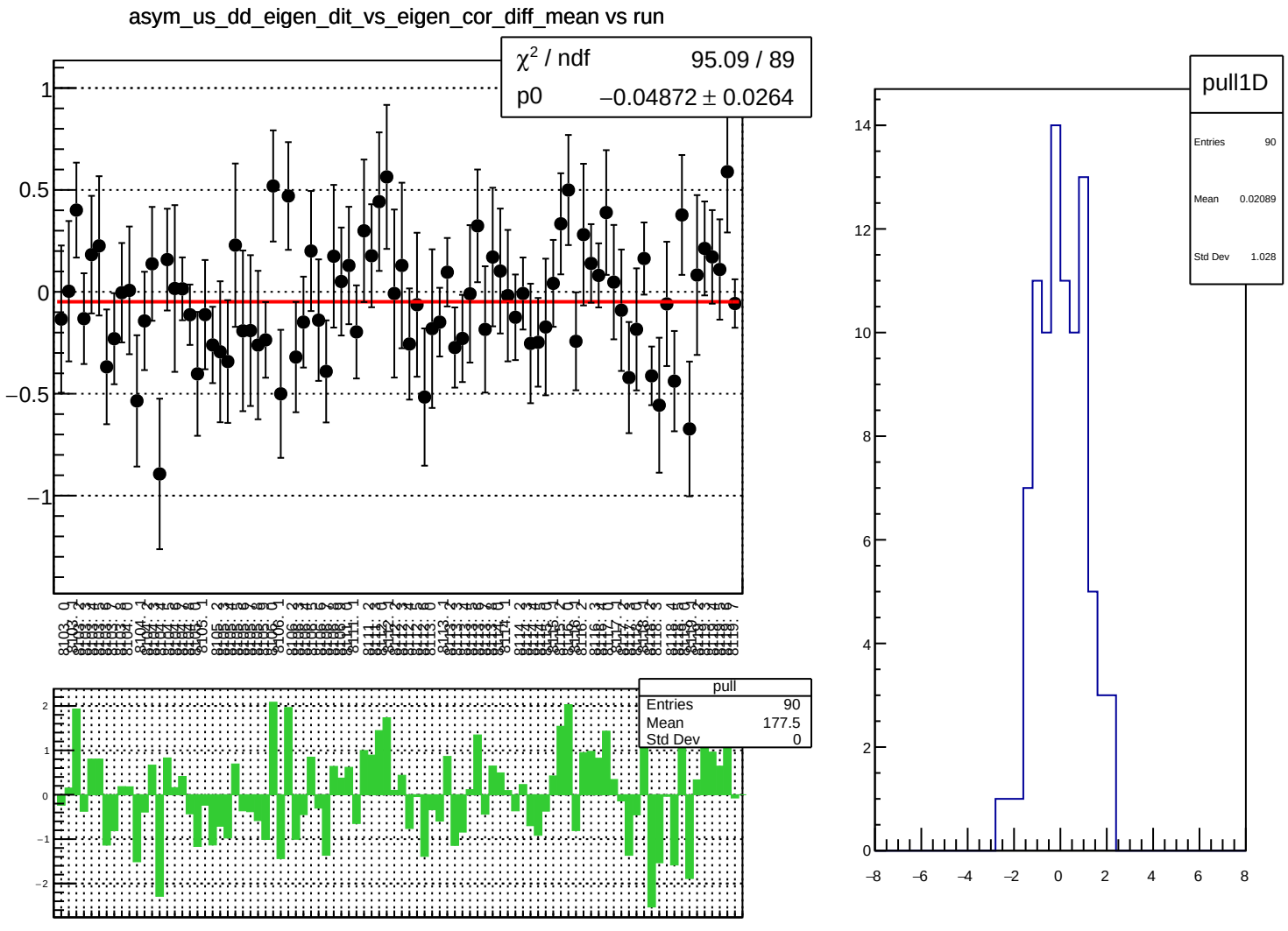

pull1D
Entries 90
Mean −0.003639
Std Dev 1.008

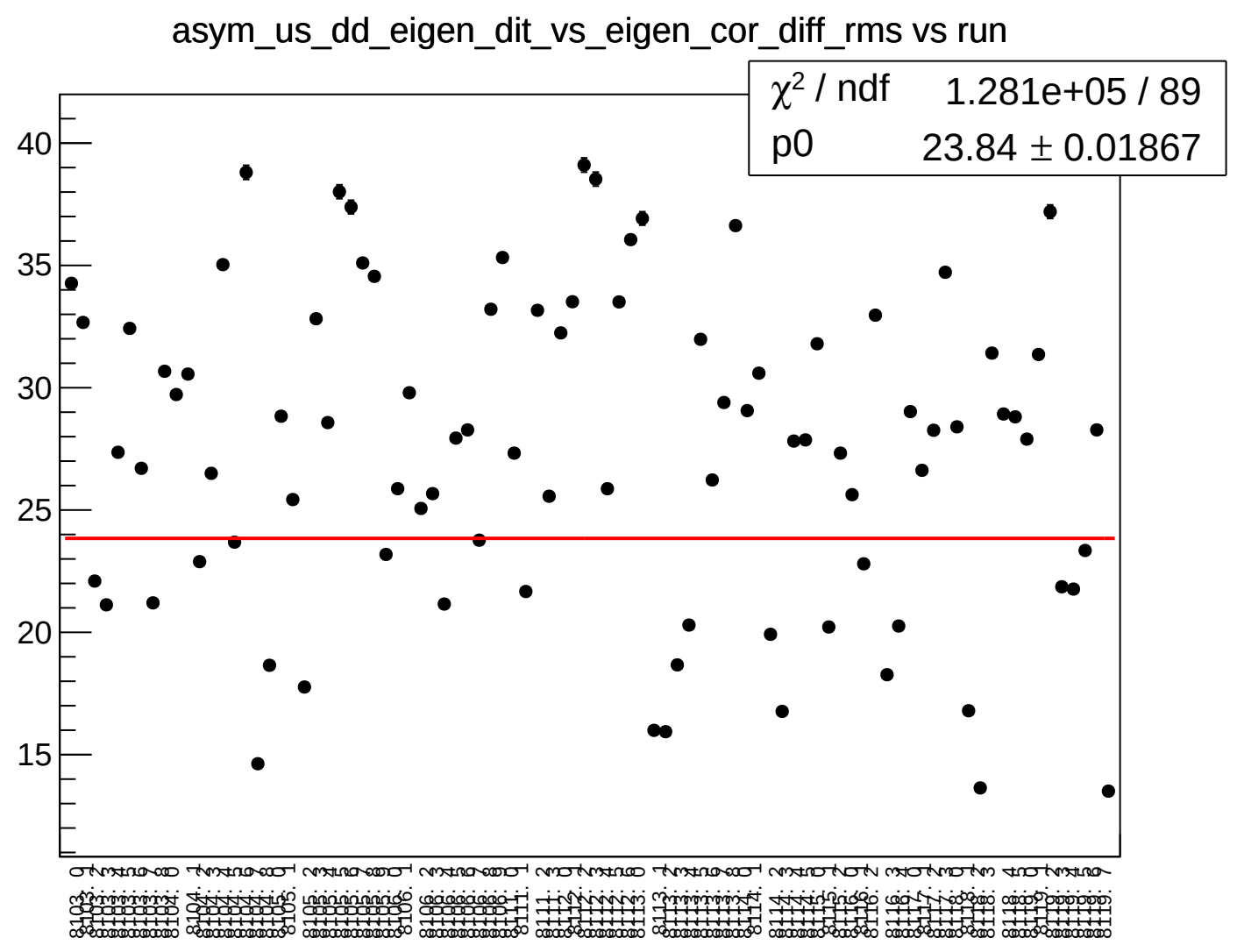

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2743 / 89
p0 0.004904 ± 3.701e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

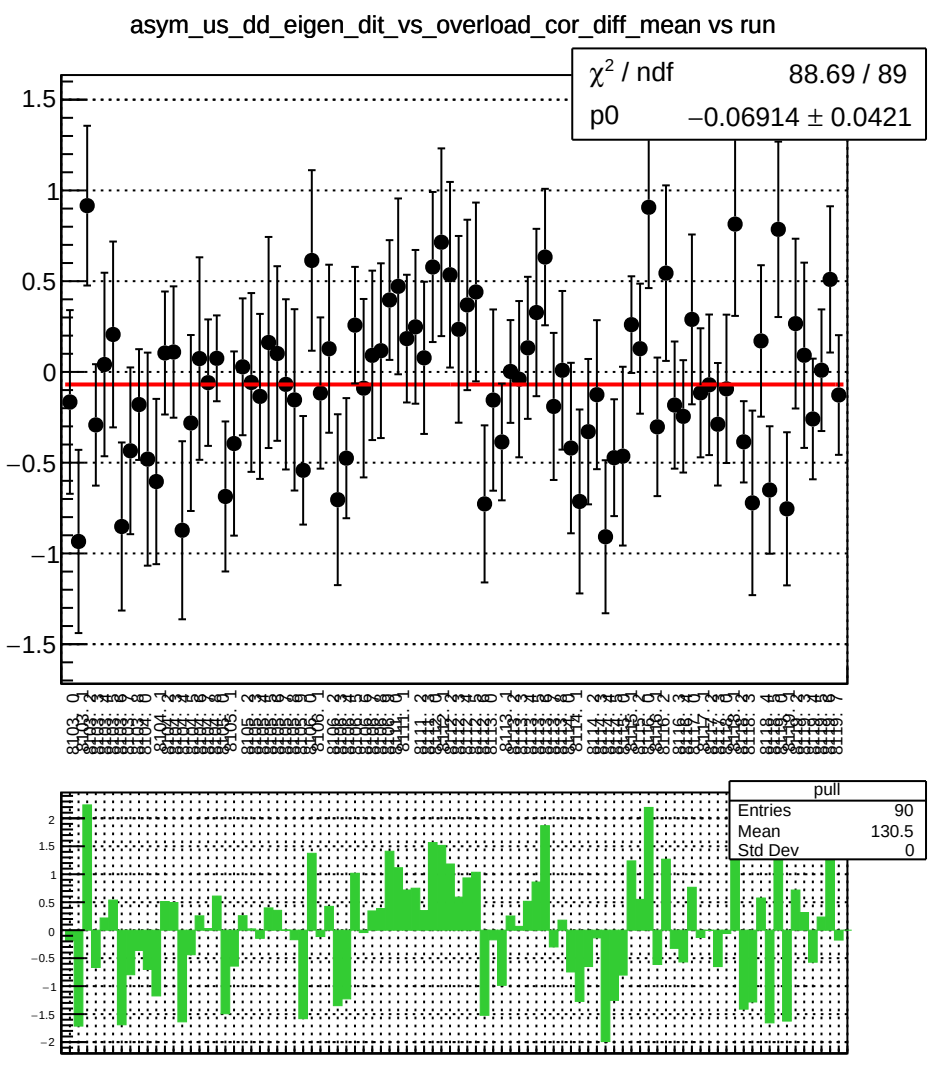

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.09 / 89
p0 −0.04872 ± 0.0264
pull
Entries 90
Mean 177.5
Std Dev 0

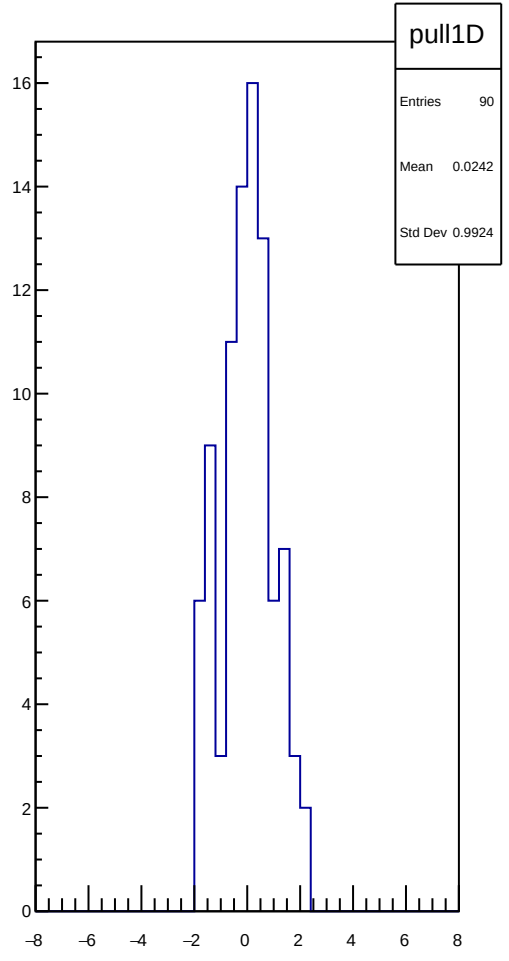

pull1D
Entries 90
Mean 0.02089
Std Dev 1.028

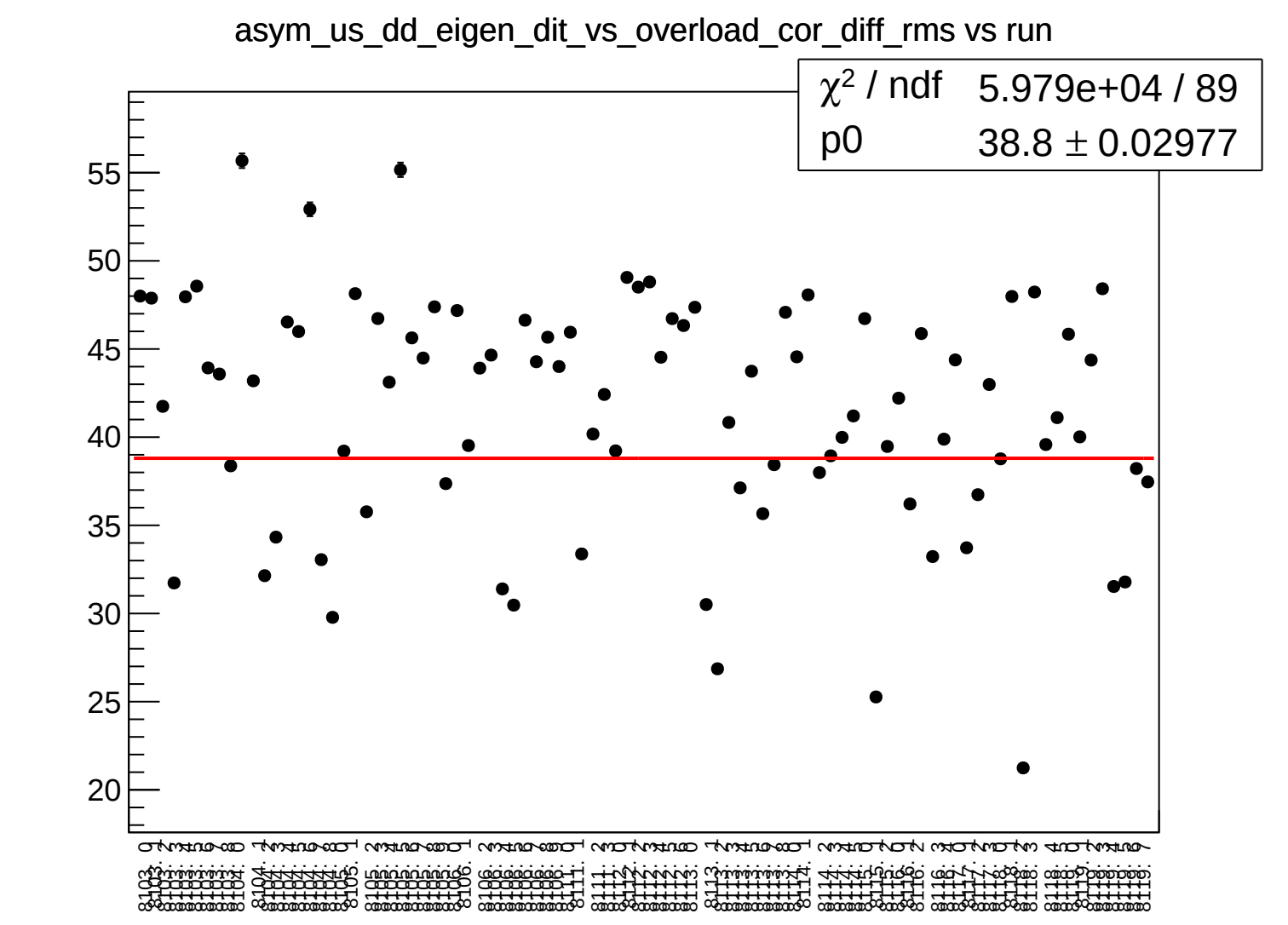

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.281e+05 / 89
p0 23.84 ± 0.01867
40
35
30
25
20
15

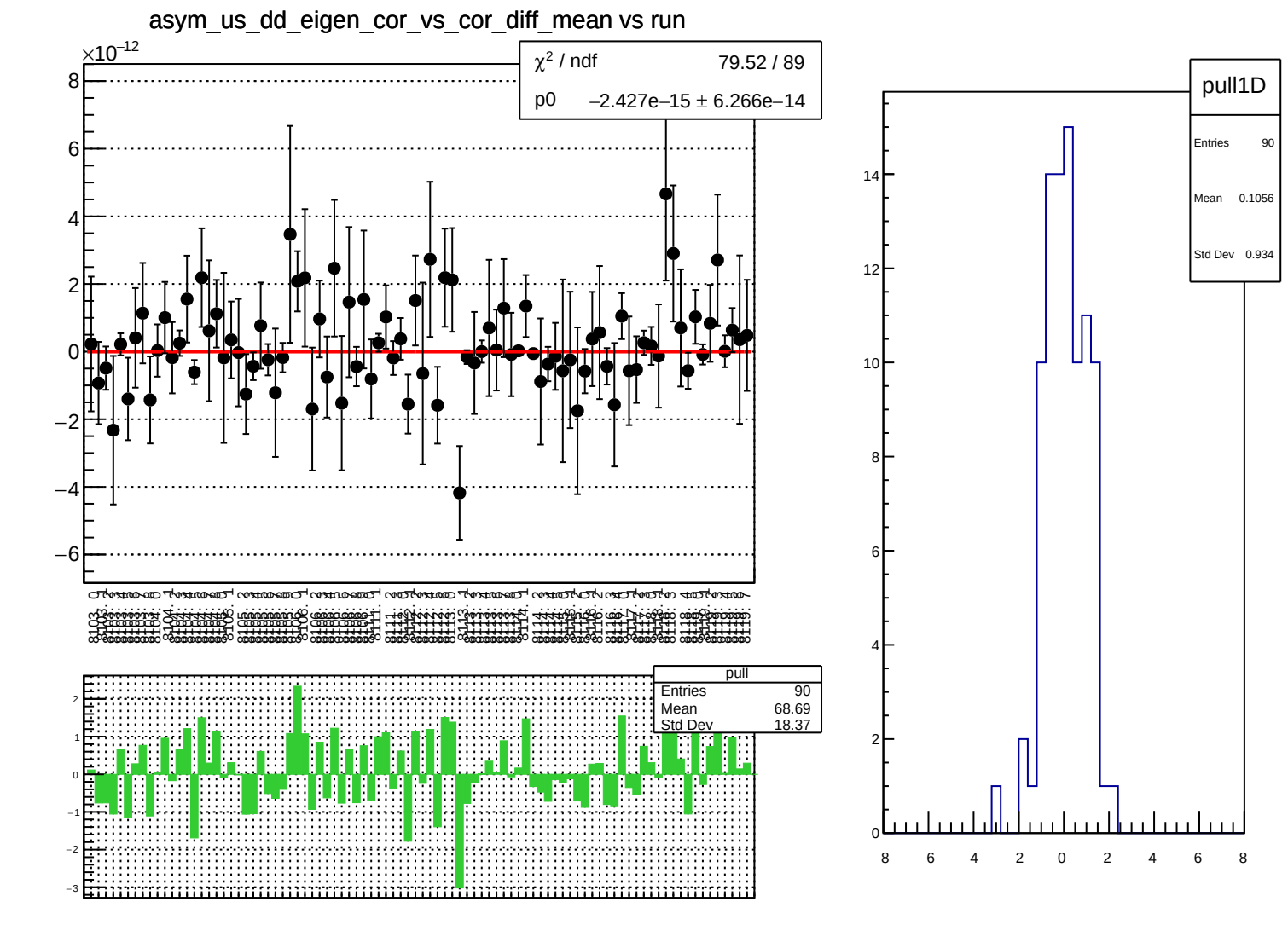

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.09 / 89
p0 −0.04872 ± 0.0264
pull
Entries 90
Mean 177.5
Std Dev 0
pull1D
Entries 90
Mean 0.02089
Std Dev 1.028

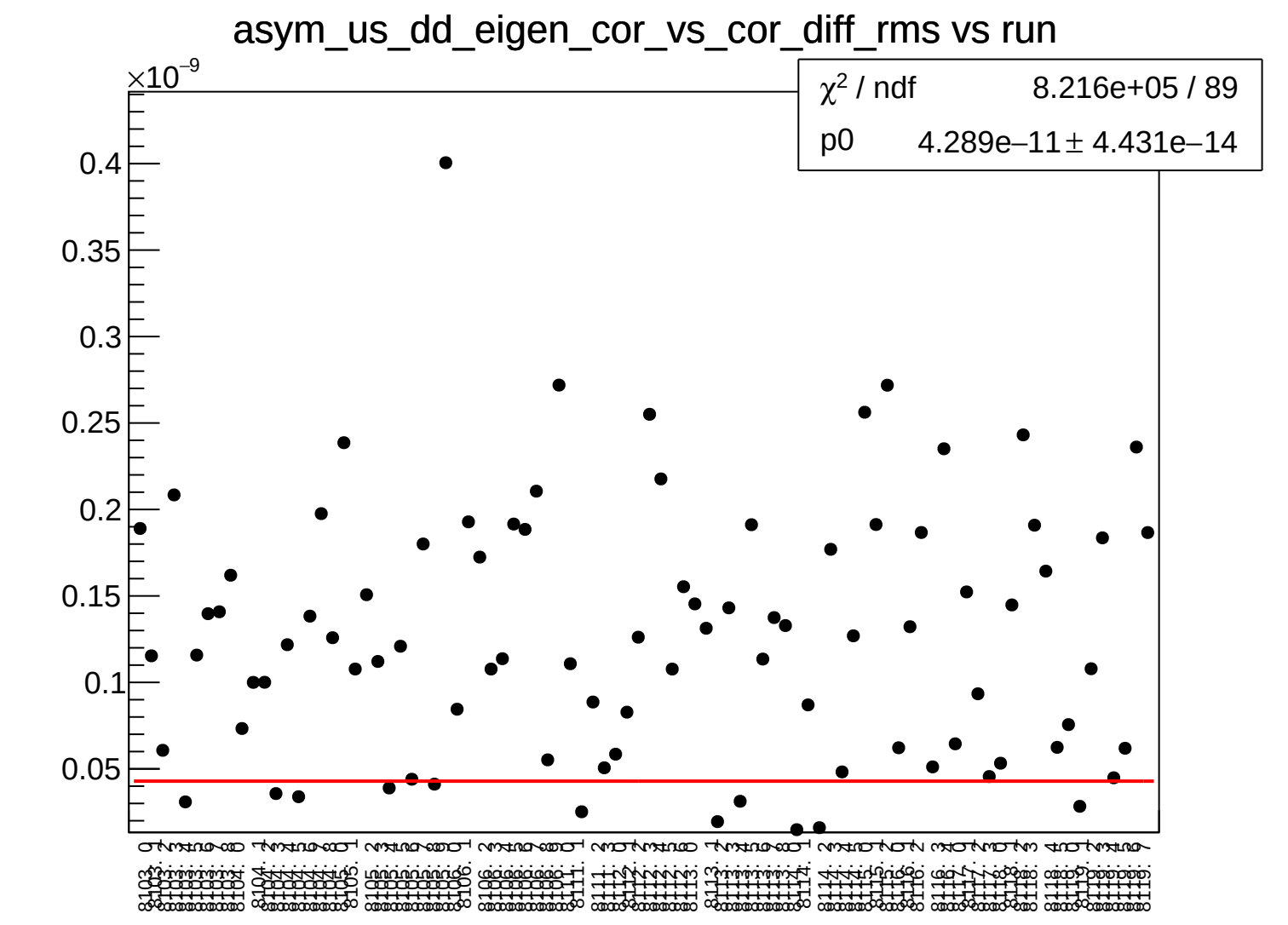

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.281e+05 / 89
p0 23.84 ± 0.01867
40
35
30
25
20
15

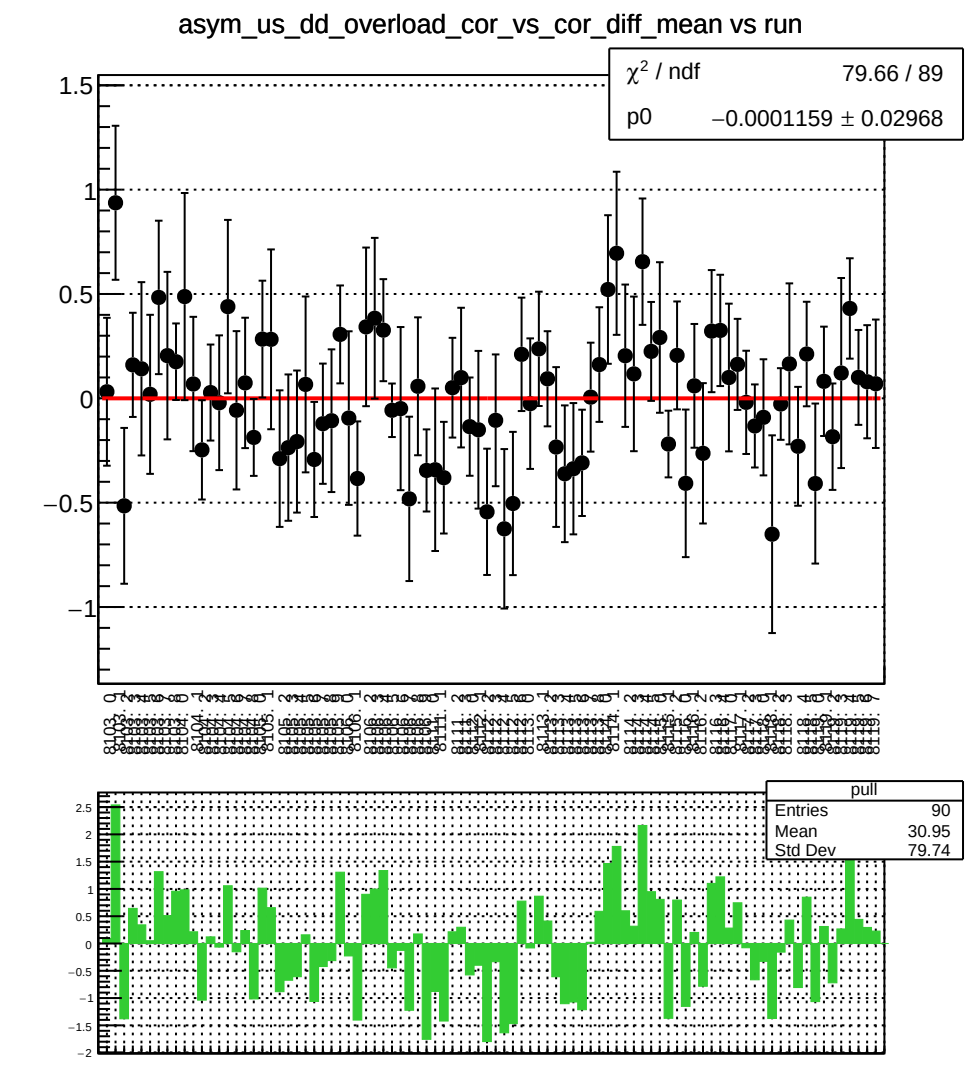

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.69 / 89
p0 −0.06914 ± 0.0421
pull
Entries 90
Mean 130.5
Std Dev 0

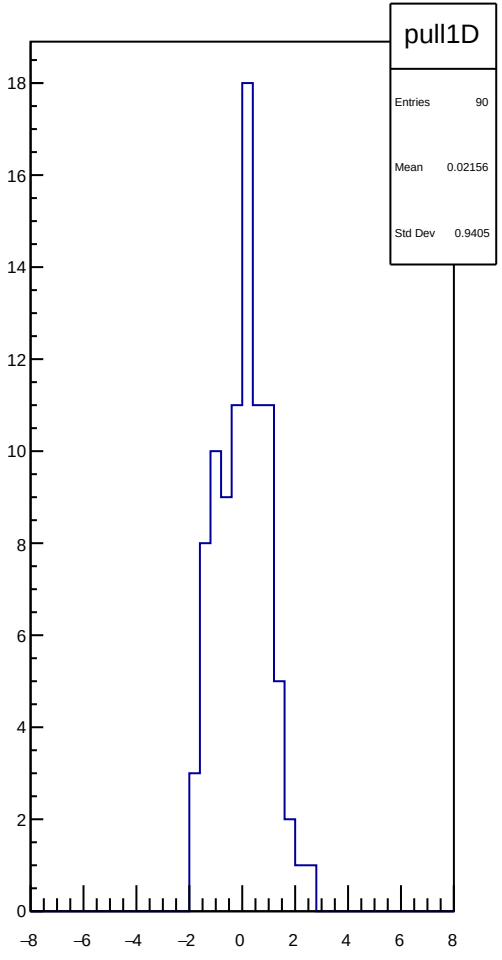

pull1D
Entries 90
Mean 0.0242
Std Dev 0.9924

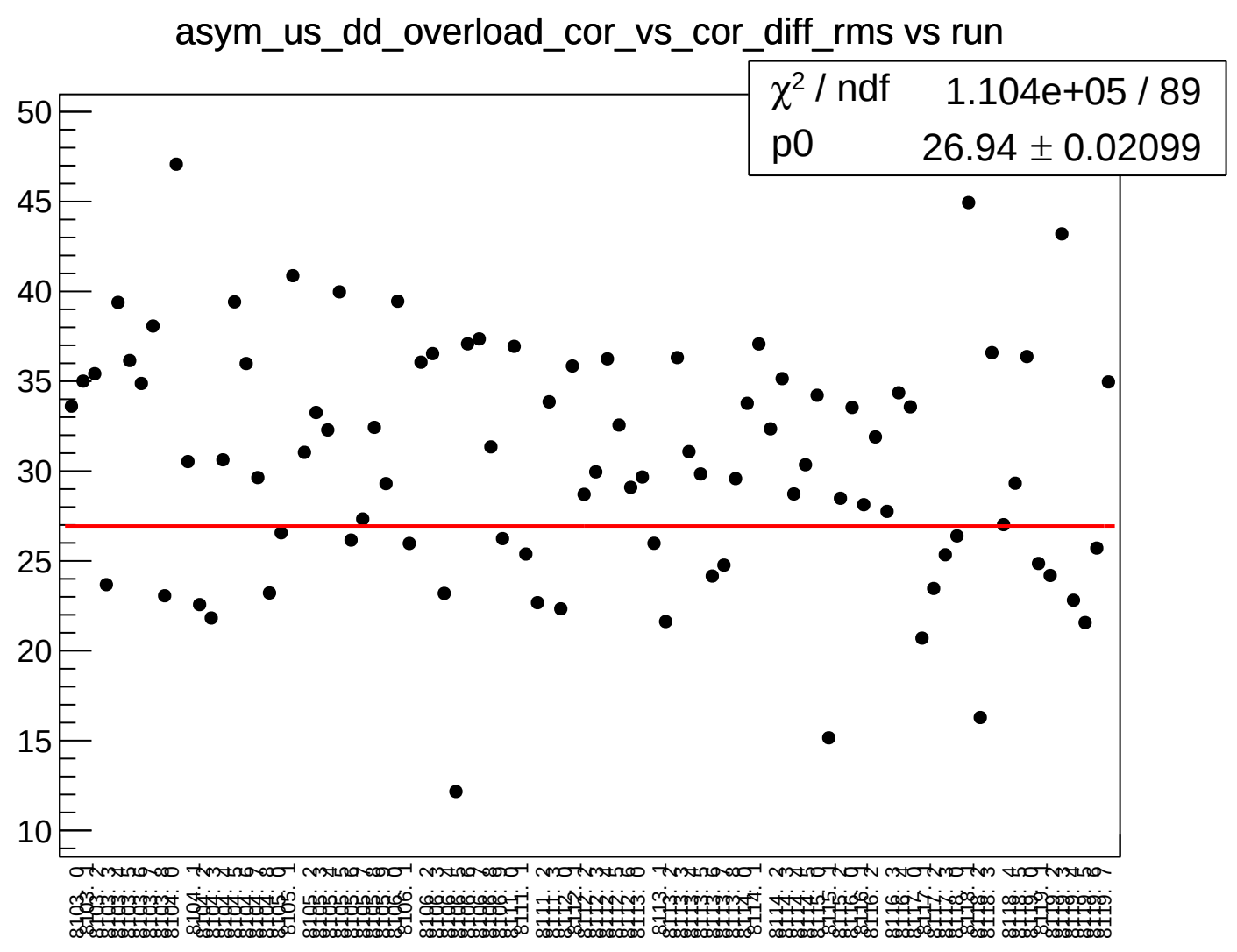

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.979e+04 / 89
p0 38.8 ± 0.02977
55
50
45
40
35
30
25
20

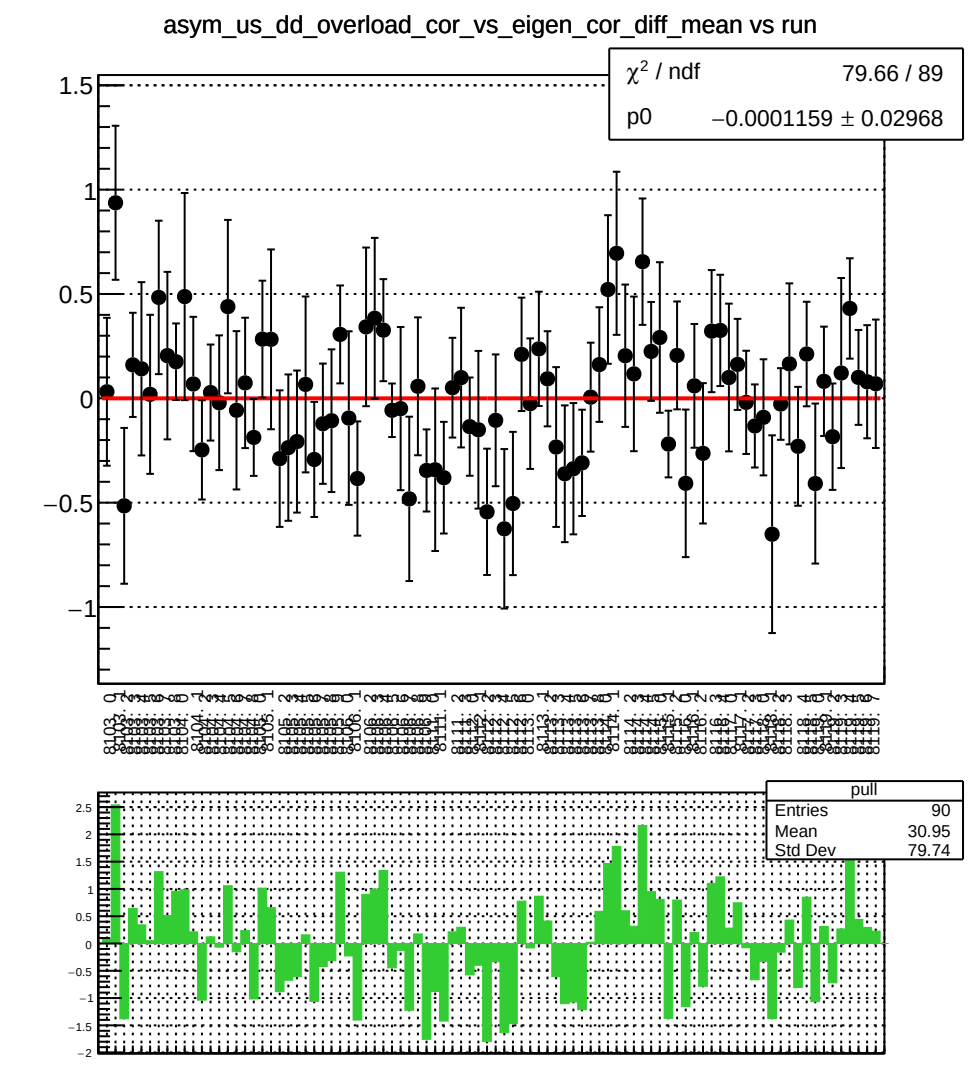

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.52 / 89
p0 −2.427e−15 ± 6.266e−14
pull
Entries 90
Mean 68.69
Std Dev 18.37
pull1D
Entries 90
Mean 0.1056
Std Dev 0.934

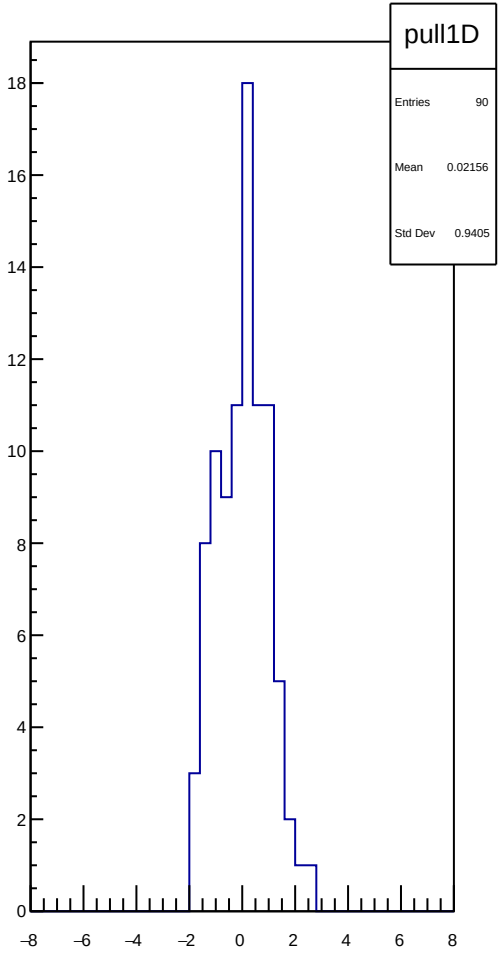

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.216e+05 / 89
p0 4.289e−11 ± 4.431e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

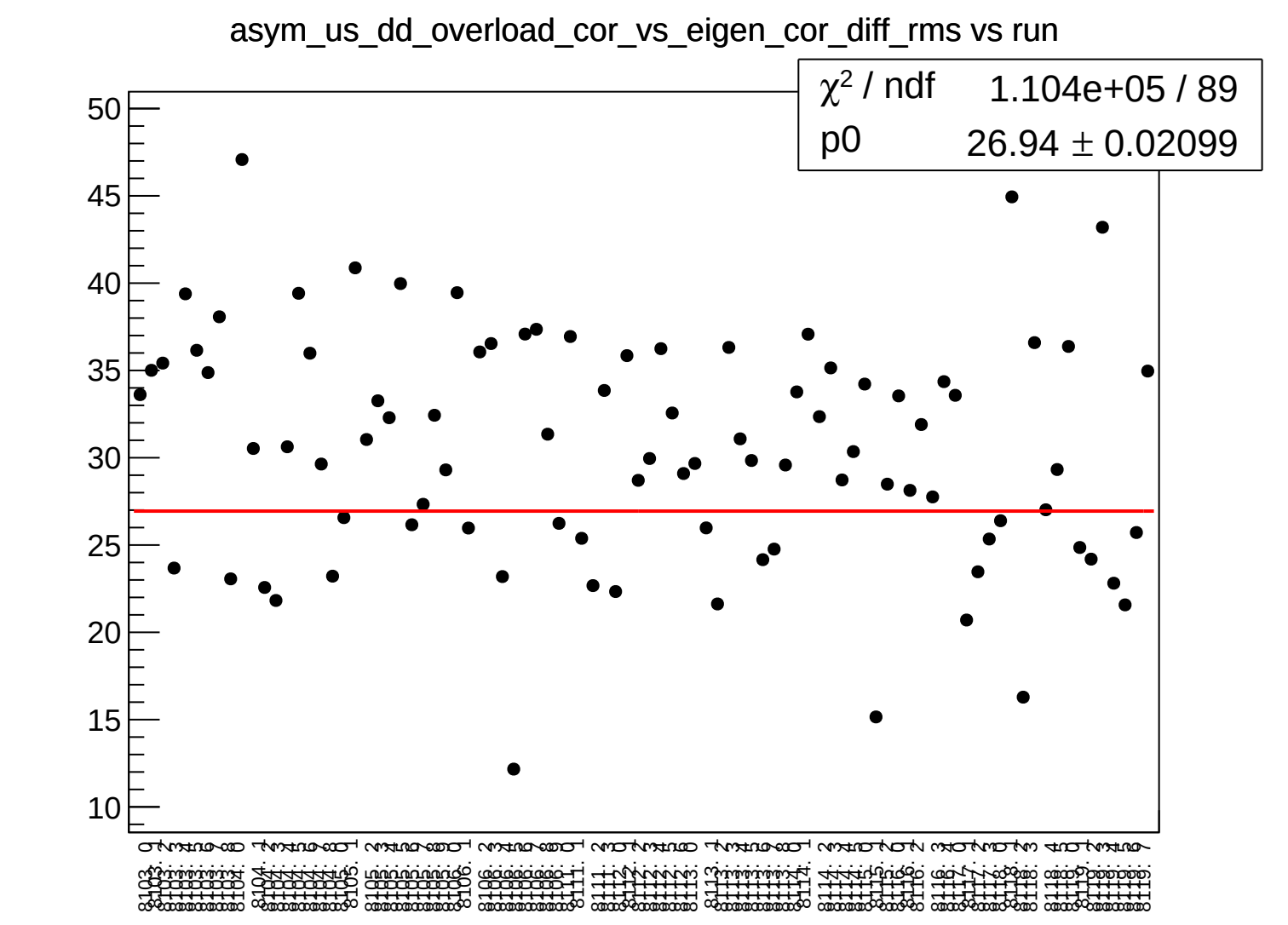

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 79.66 / 89
p0 −0.0001159 ± 0.02968
pull
Entries 90
Mean 30.95
Std Dev 79.74

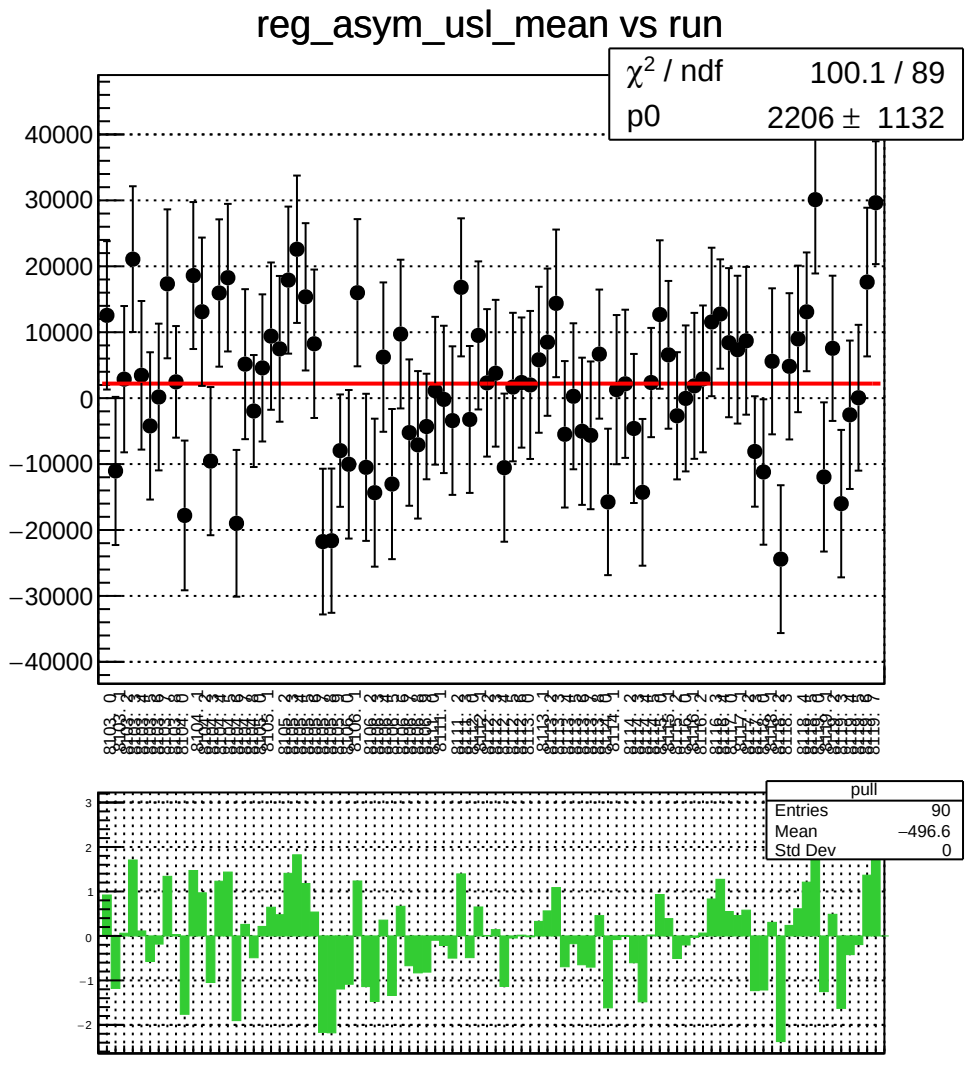

pull1D
Entries 90
Mean 0.02156
Std Dev 0.9405

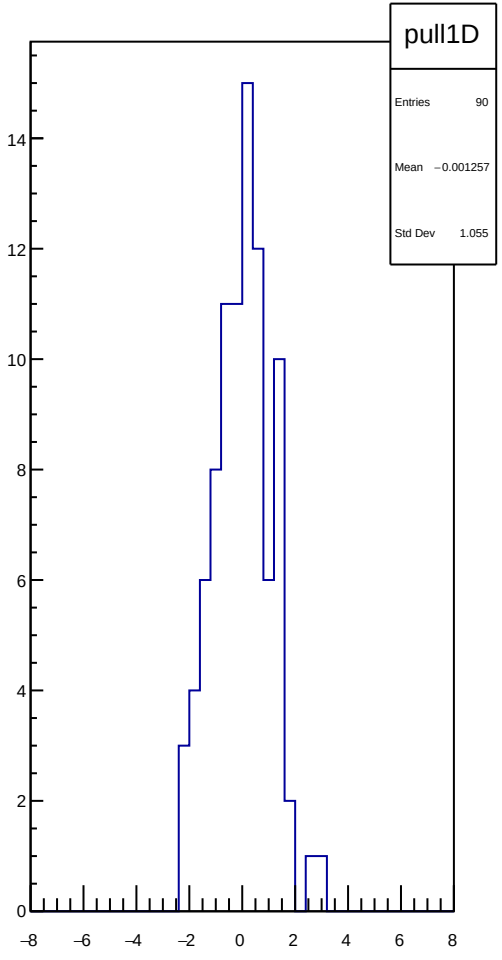

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.104e+05 / 89
p0 26.94 ± 0.02099
50
45
40
35
30
25
20
15
10

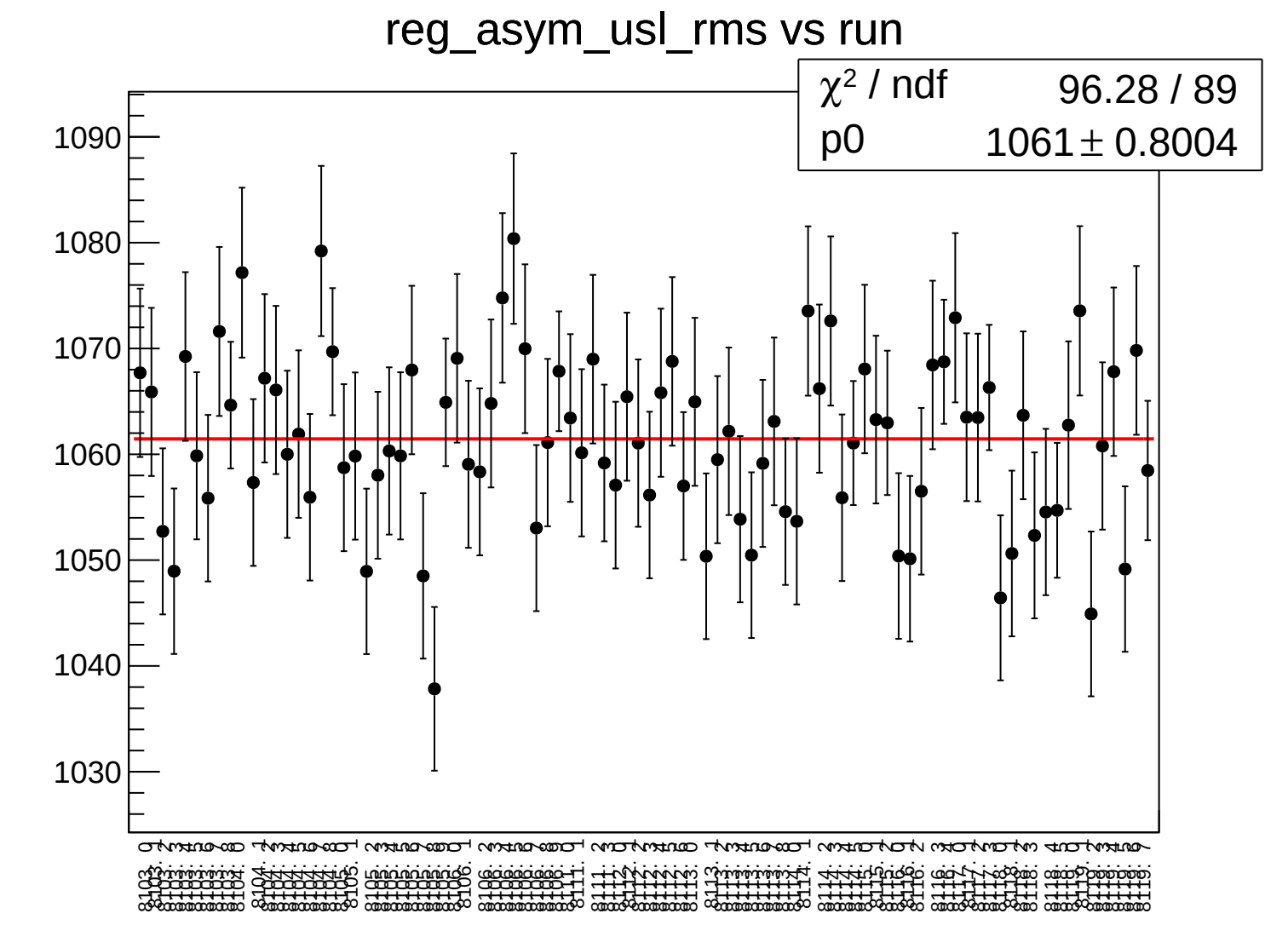

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.66 / 89
p0 −0.0001159 ± 0.02968
pull
Entries 90
Mean 30.95
Std Dev 79.74

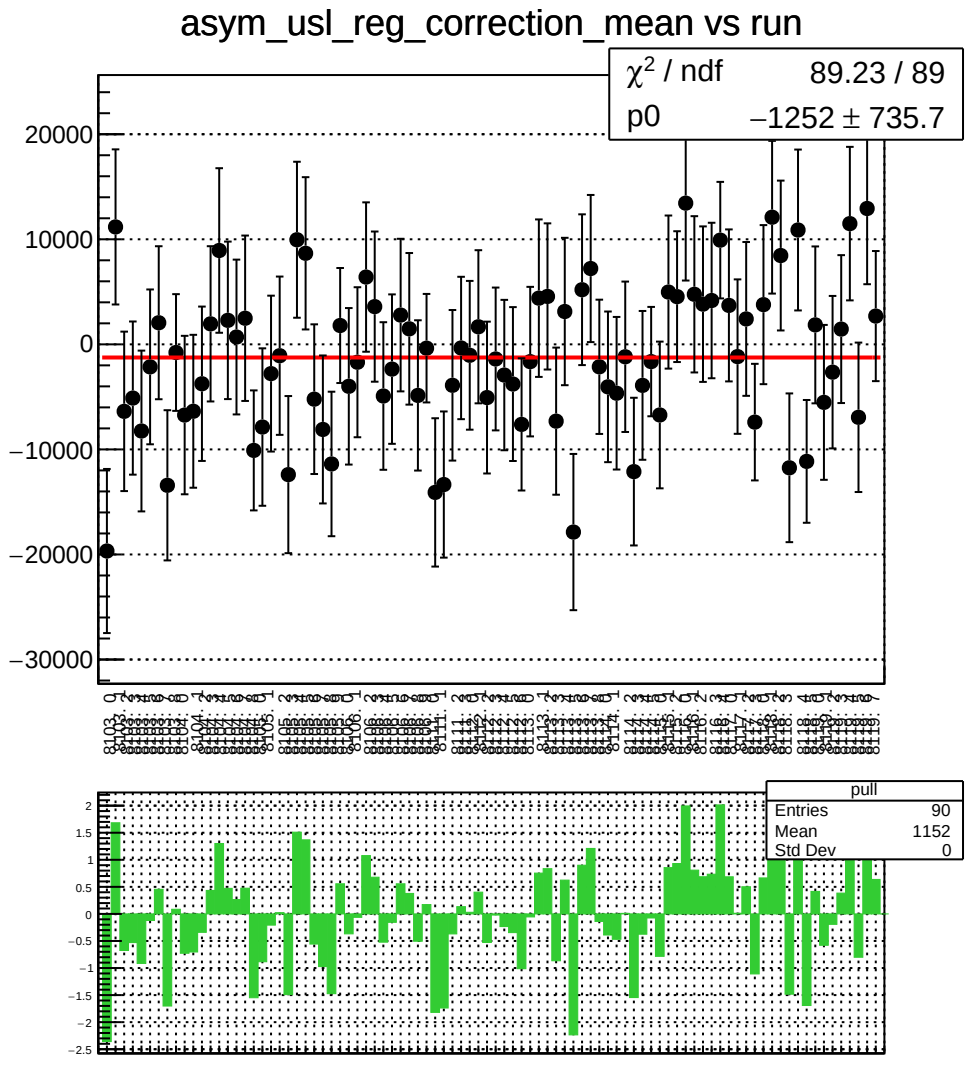

pull1D
Entries 90
Mean 0.02156
Std Dev 0.9405

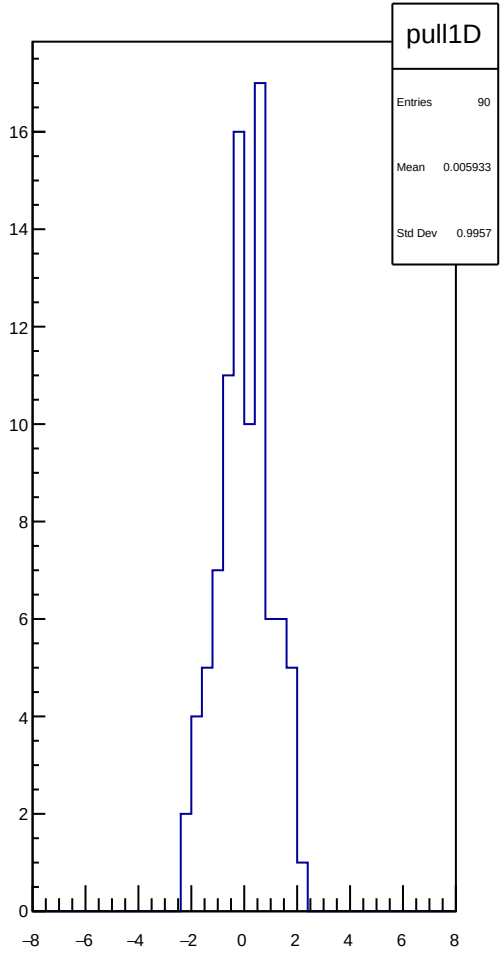

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.104e+05 / 89
p0 26.94 ± 0.02099
50
45
40
35
30
25
20
15
10

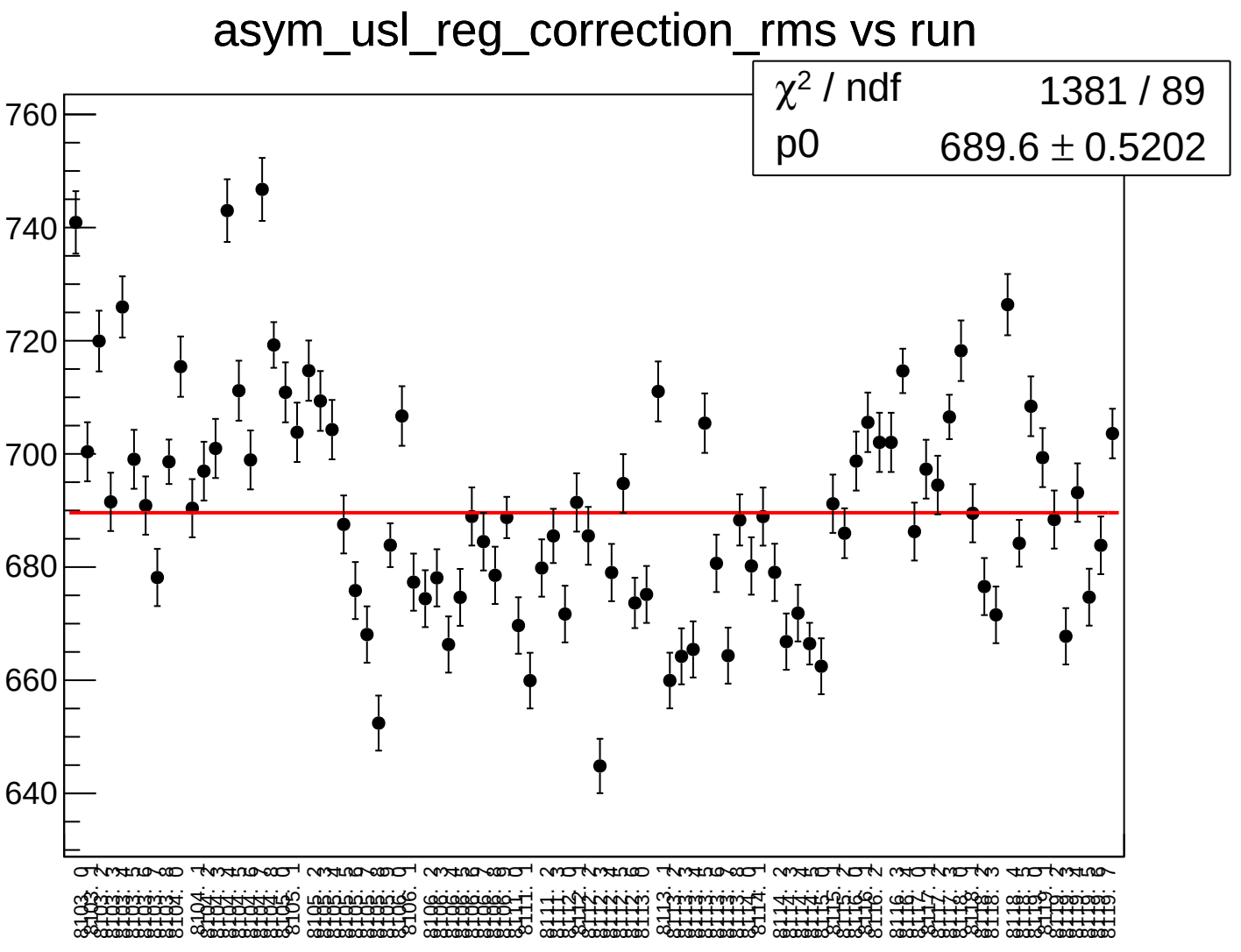

reg_asym_usl_mean vs run
χ² / ndf 100.1 / 89
p0 2206 ± 1132
pull
Entries 90
Mean −496.6
Std Dev 0

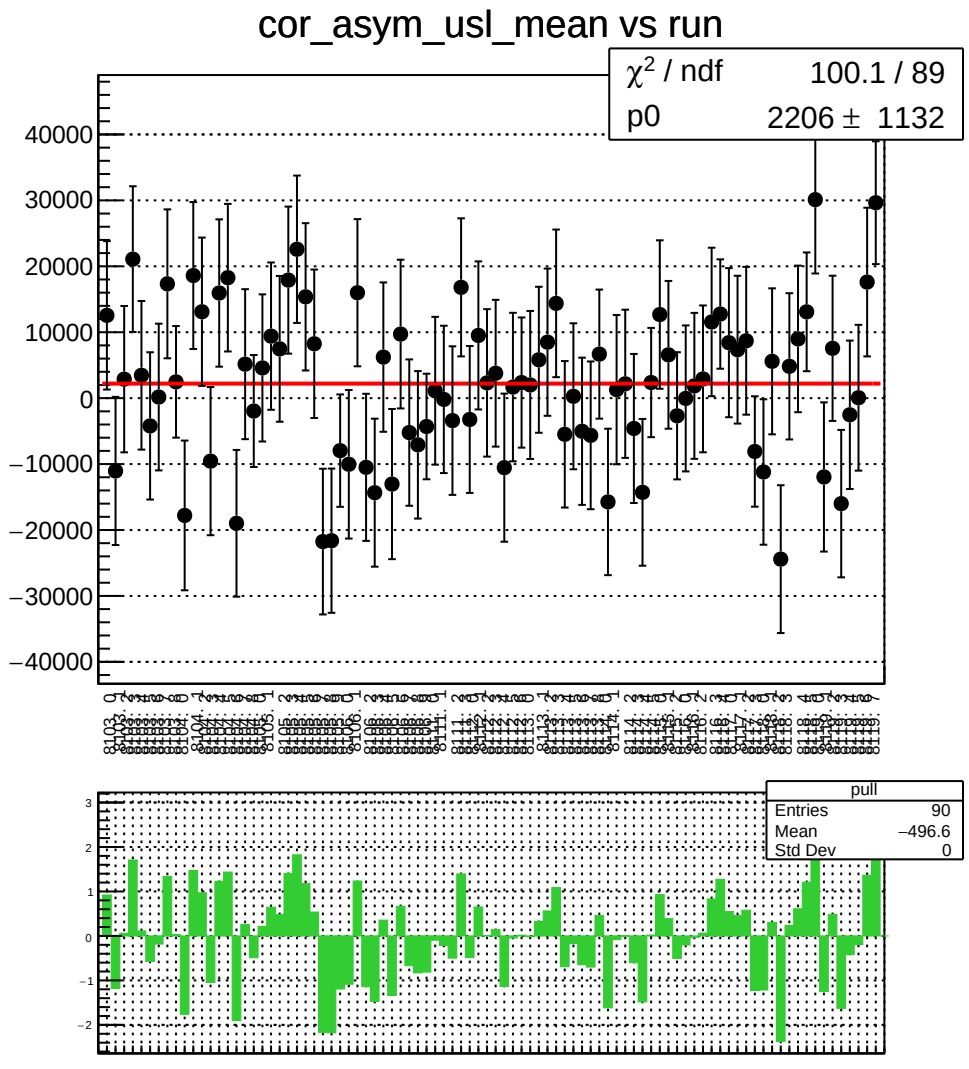

pull1D
Entries 90
Mean −0.001257
Std Dev 1.055

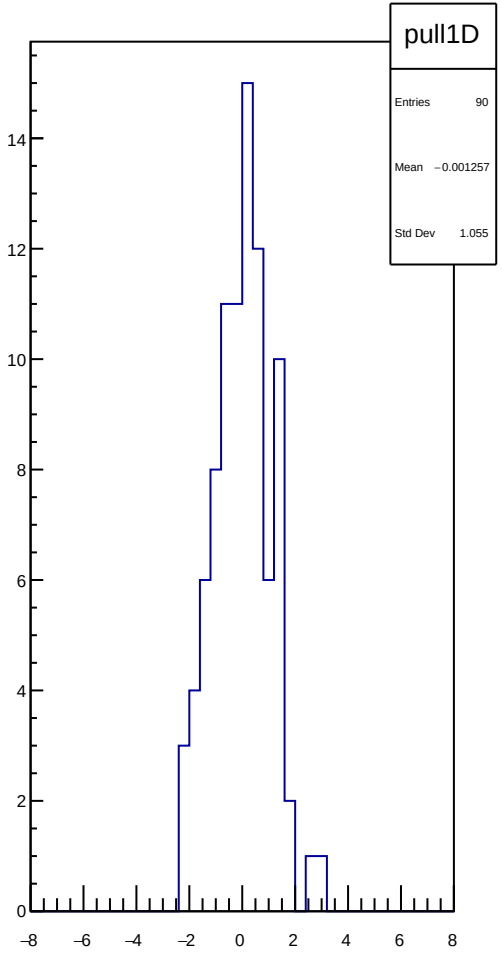

reg_asym_usl_rms vs run
χ² / ndf 96.28 / 89
p0 1061 ± 0.8004
1090
1080
1070
1060
1050
1040
1030

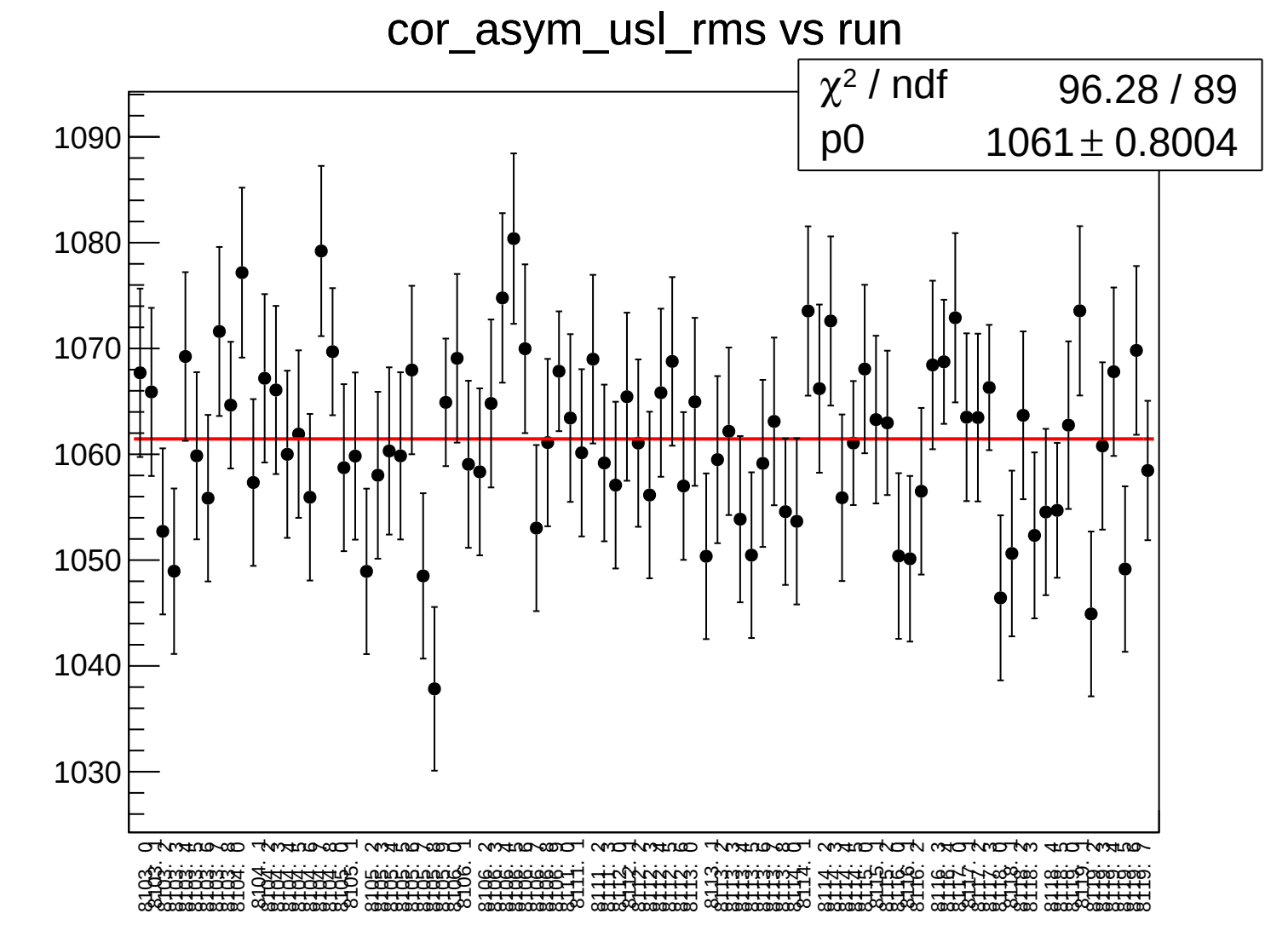

asym_usl_reg_correction_mean vs run
χ² / ndf 89.23 / 89
p0 −1252 ± 735.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1152
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

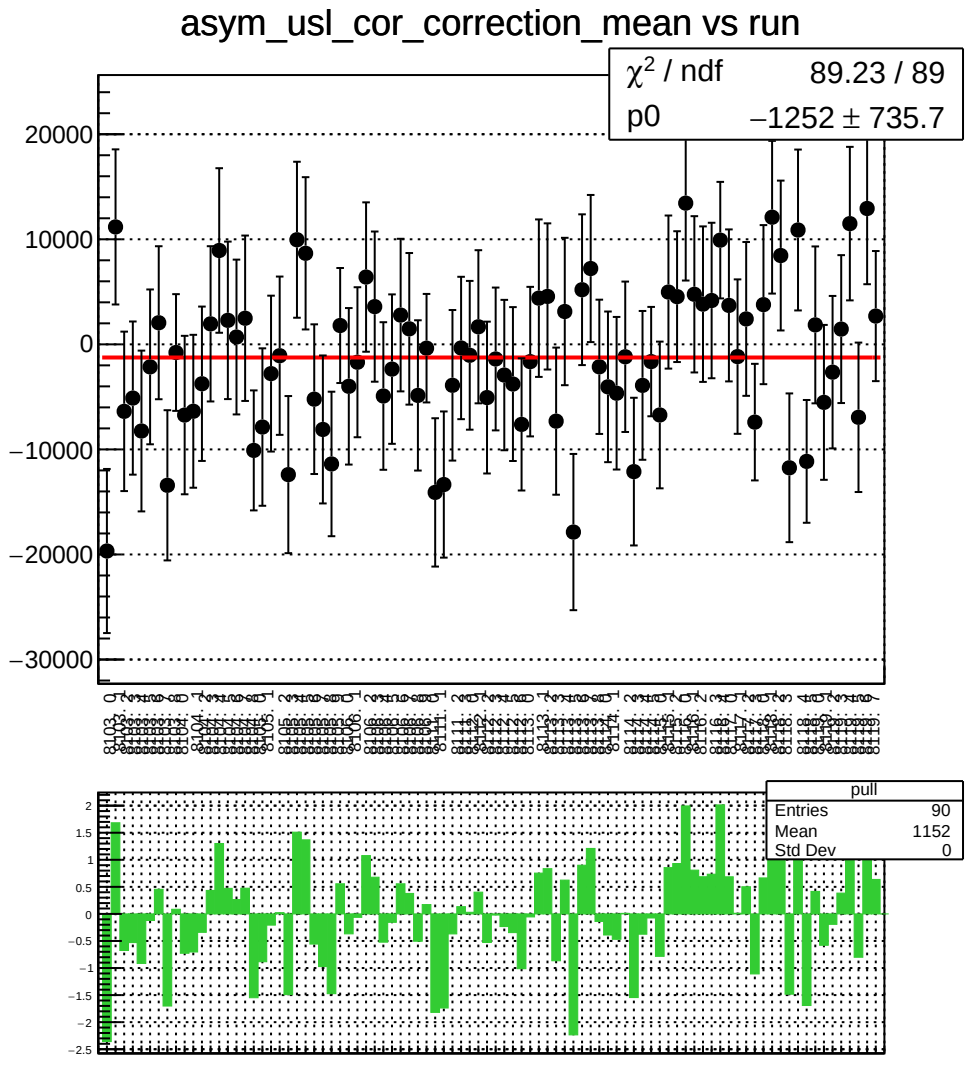

pull1D
Entries 90
Mean 0.005933
Std Dev 0.9957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

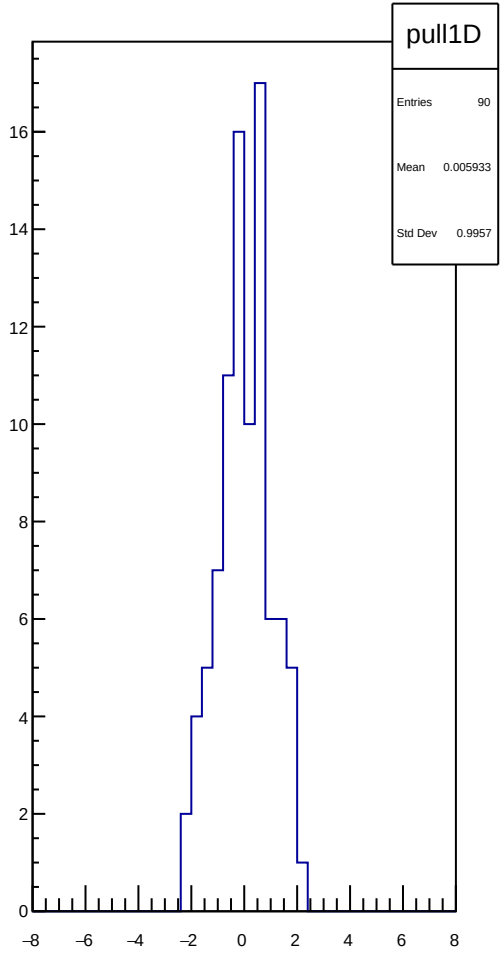

asym_usl_reg_correction_rms vs run
χ² / ndf 1381 / 89
p0 689.6 ± 0.5202
760
740
720
700
680
660
640

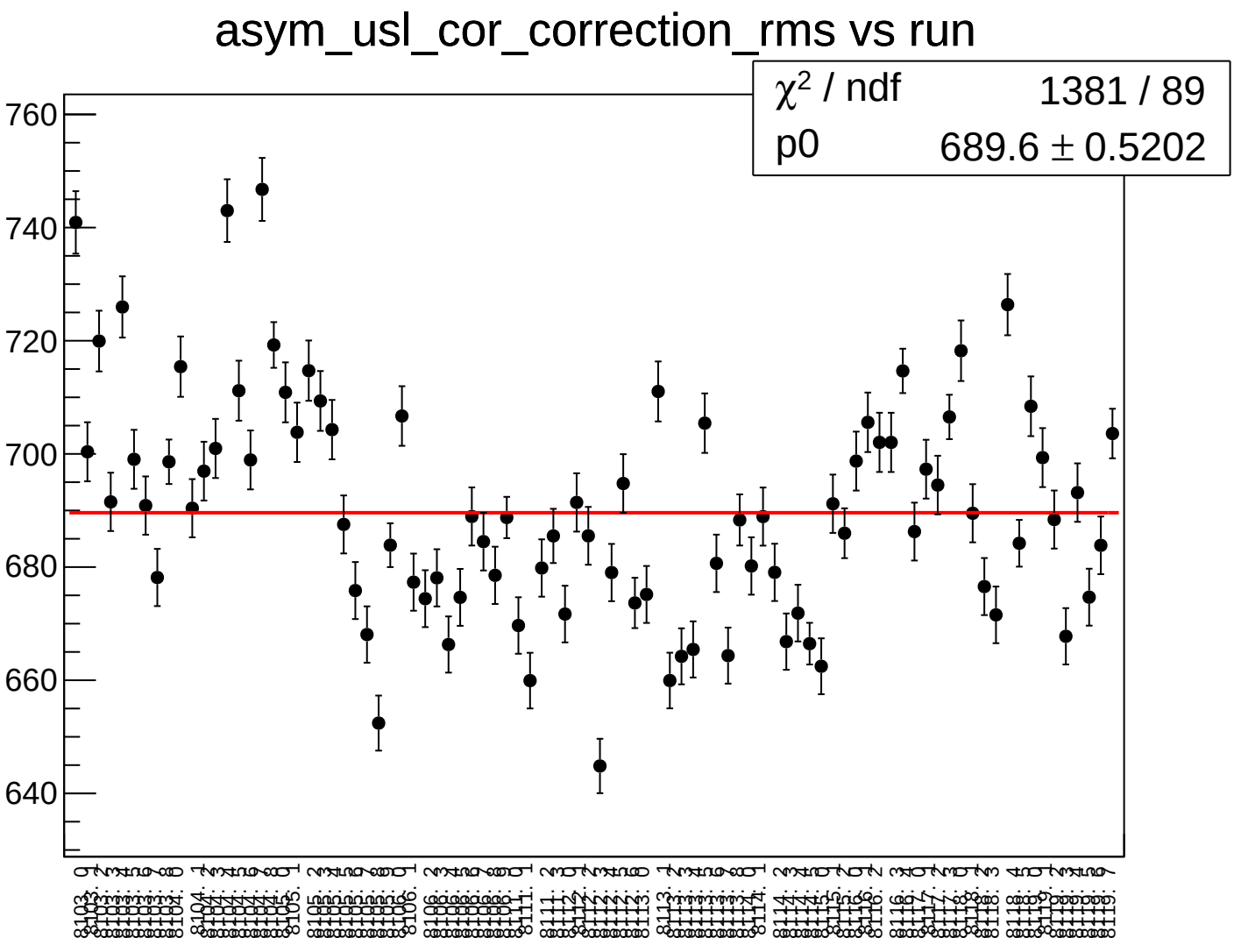

cor_asym_usl_mean vs run
χ² / ndf 100.1 / 89
p0 2206 ± 1132
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −496.6
Std Dev 0
3
2
1
0
−1
−2

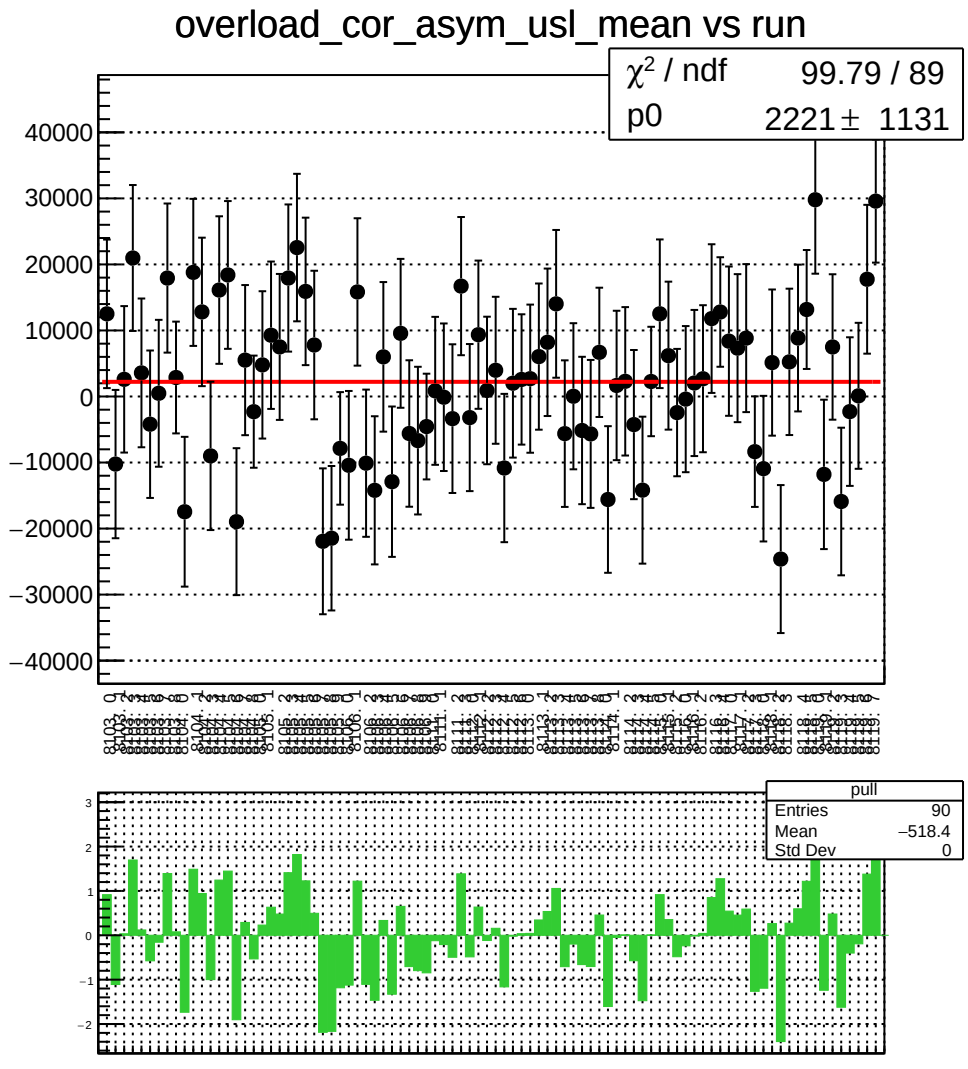

pull1D
Entries 90
Mean −0.001257
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

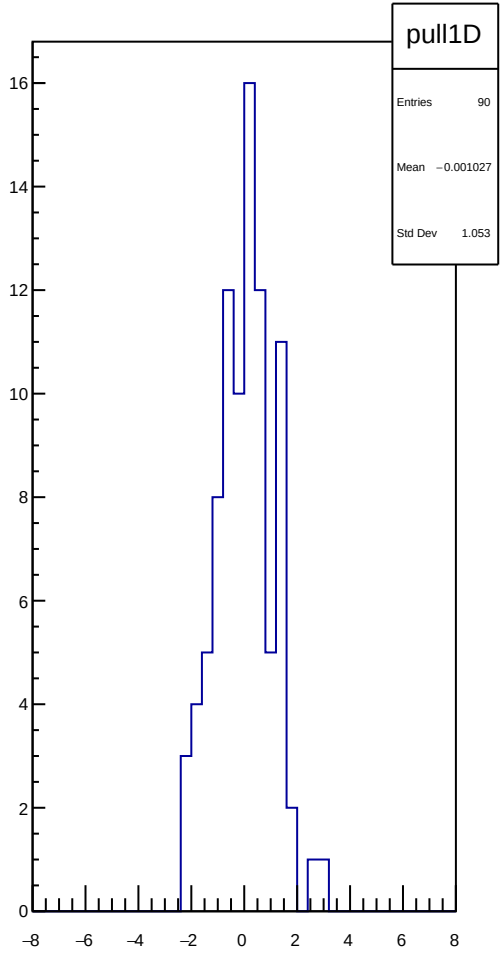

cor_asym_usl_rms vs run
χ² / ndf 96.28 / 89
p0 1061 ± 0.8004
1090
1080
1070
1060
1050
1040
1030

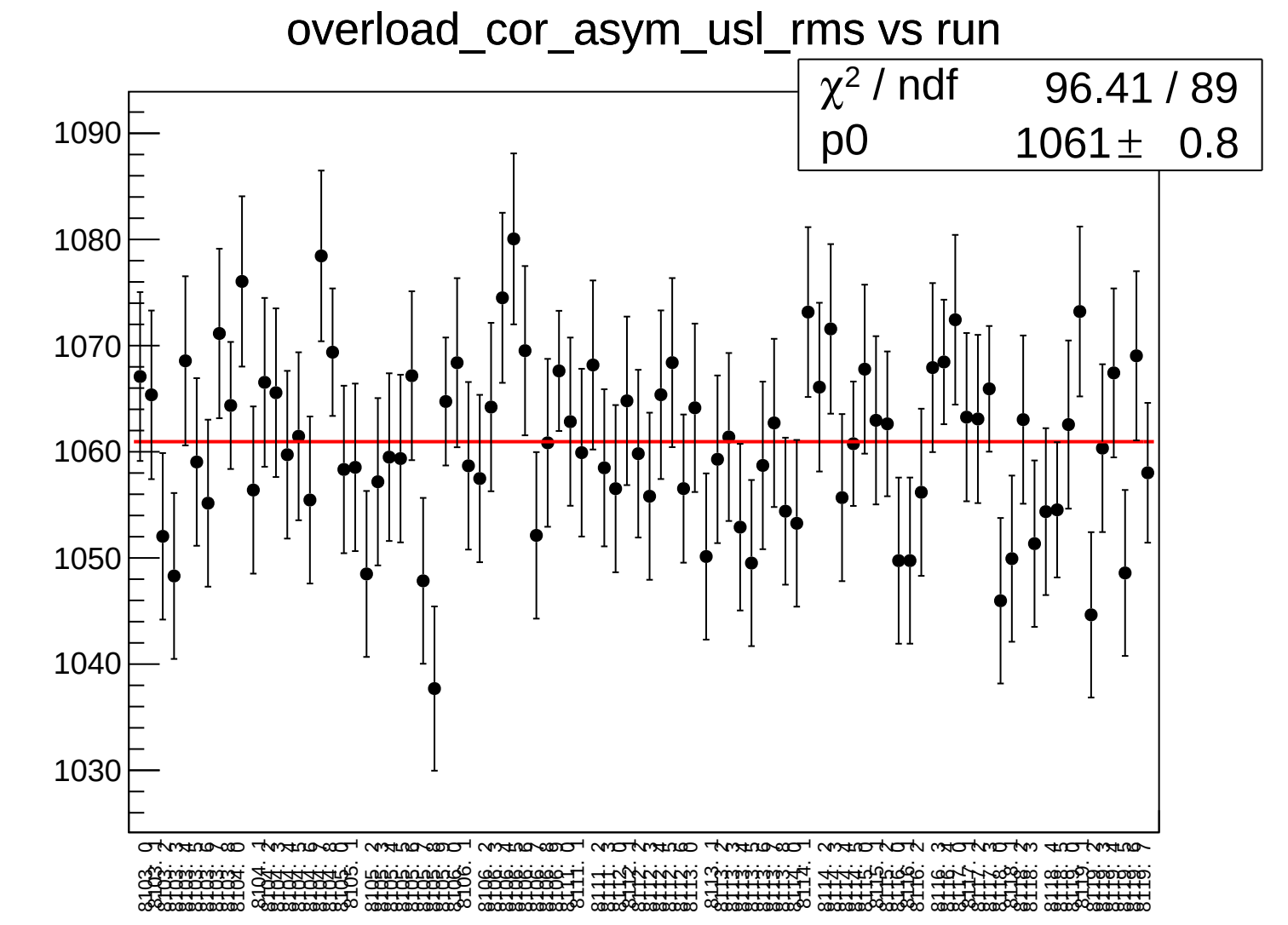

asym_usl_cor_correction_mean vs run
χ² / ndf 89.23 / 89
p0 −1252 ± 735.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1152
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

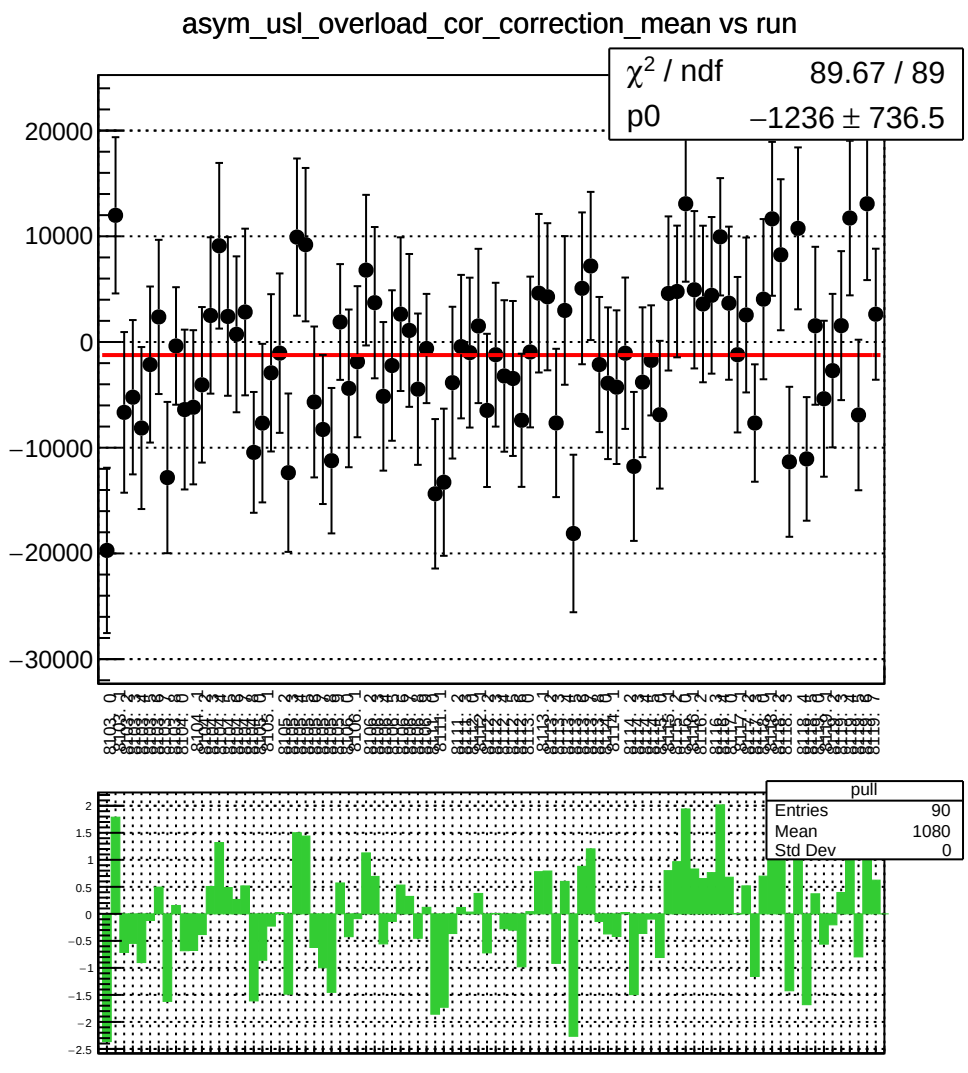

pull1D
Entries 90
Mean 0.005933
Std Dev 0.9957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

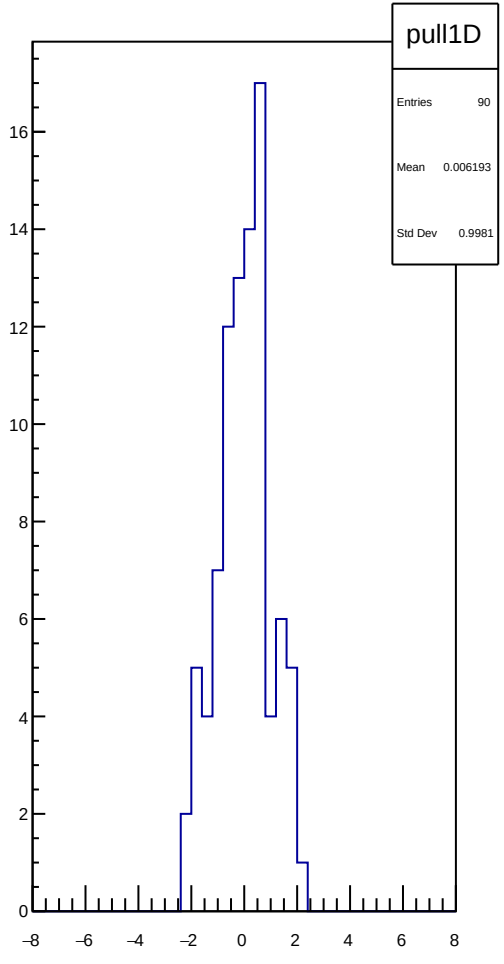

asym_usl_cor_correction_rms vs run
χ² / ndf 1381 / 89
p0 689.6 ± 0.5202
760
740
720
700
680
660
640

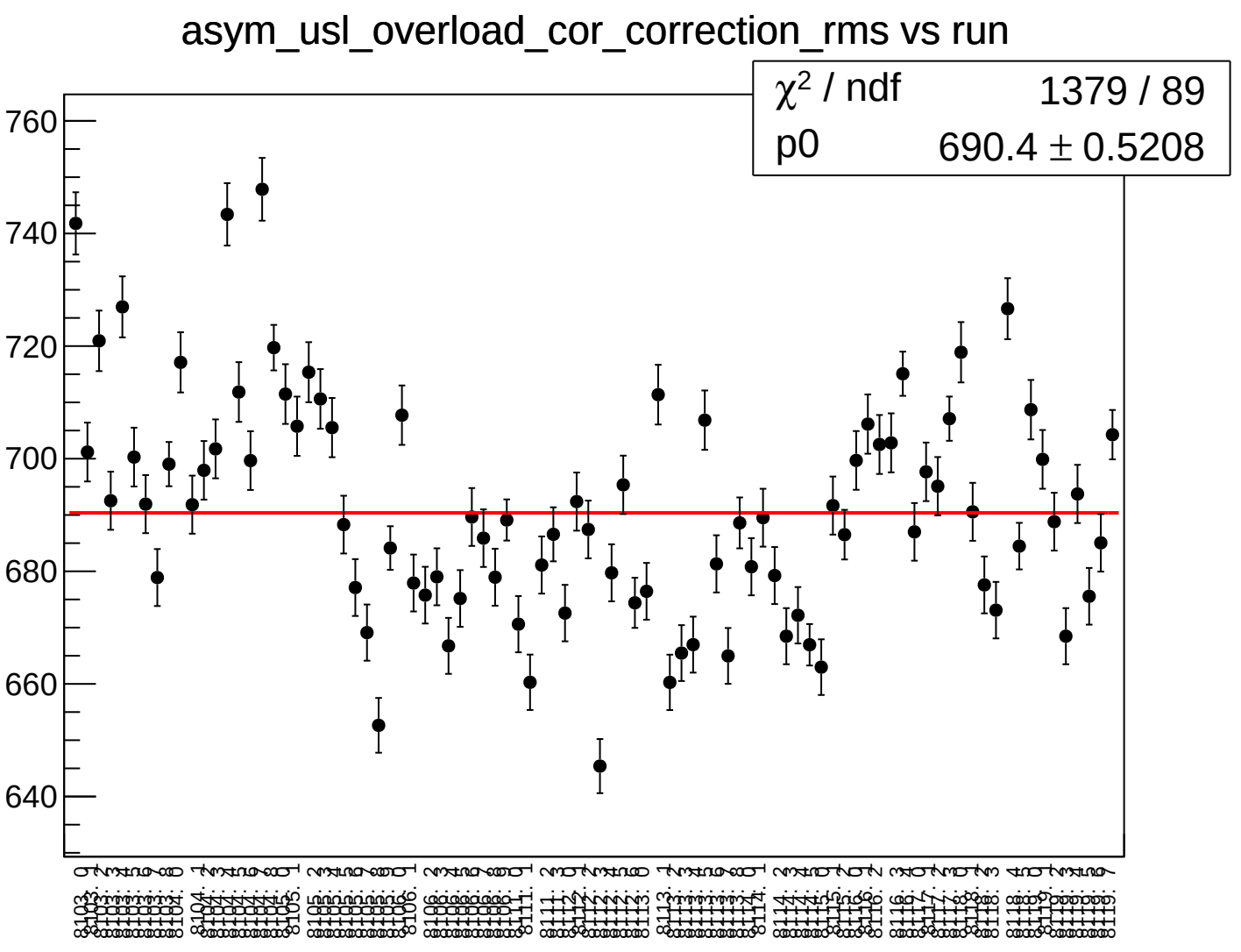

overload_cor_asym_usl_mean vs run
χ² / ndf 99.79 / 89
p0 2221 ± 1131
pull
Entries 90
Mean −518.4
Std Dev 0

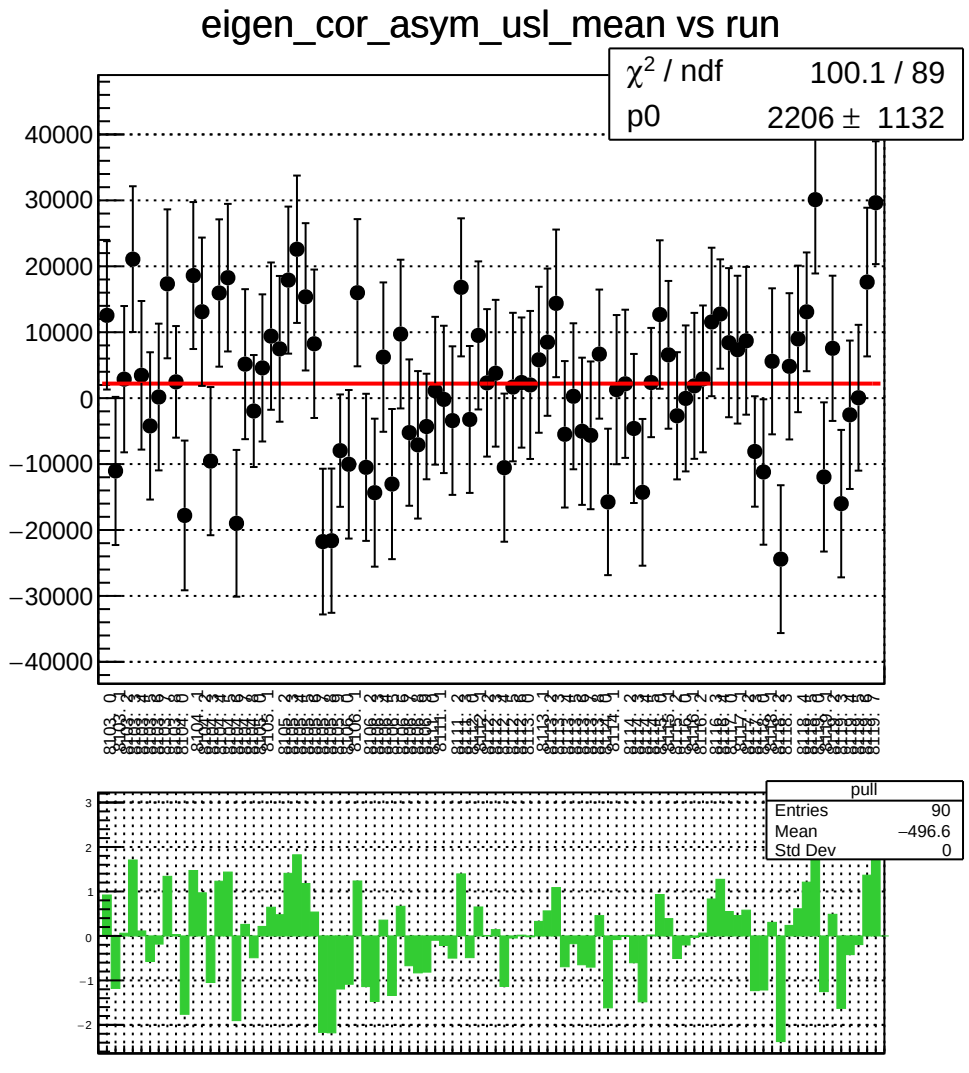

pull1D
Entries 90
Mean −0.001027
Std Dev 1.053

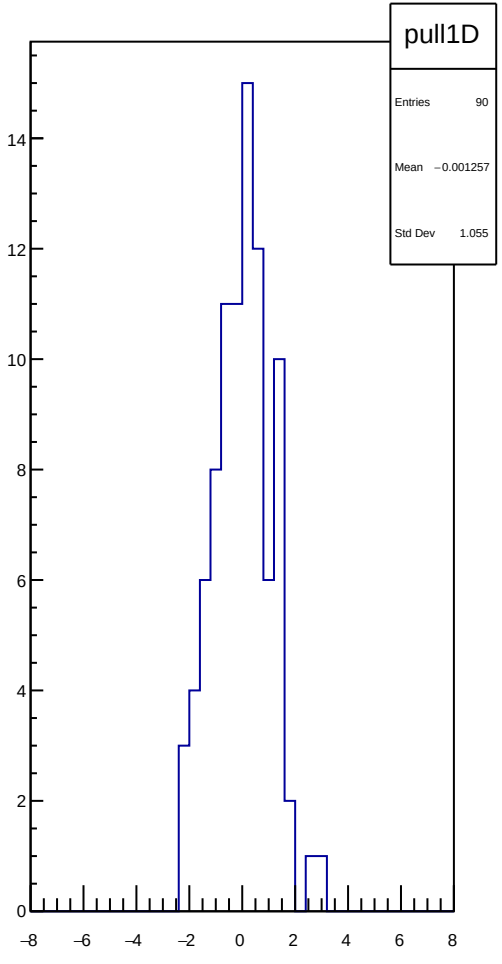

overload_cor_asym_usl_rms vs run
χ² / ndf 96.41 / 89
p0 1061 ± 0.8
1090
1080
1070
1060
1050
1040
1030

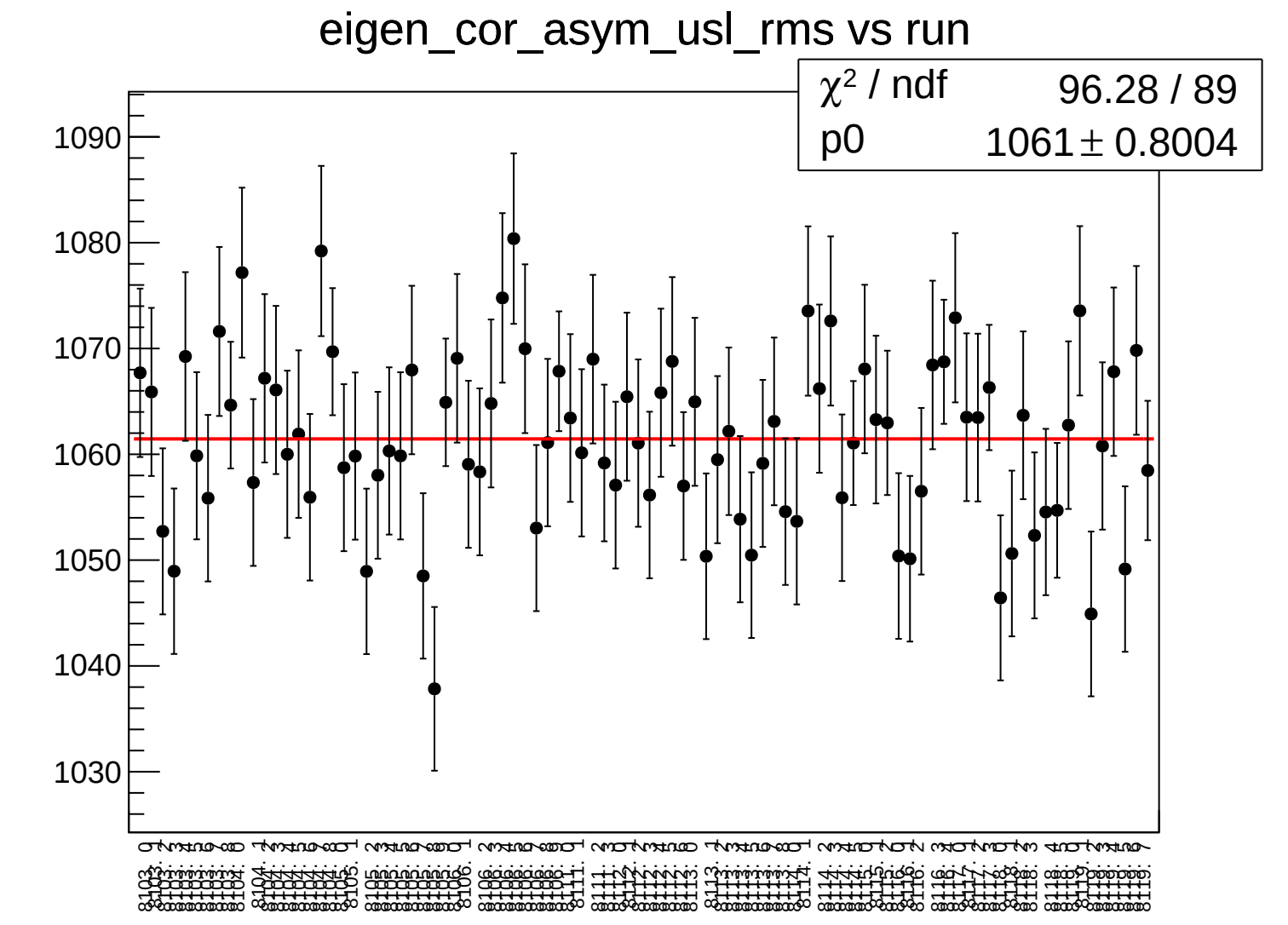

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 89.67 / 89
p0 −1236 ± 736.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1080
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

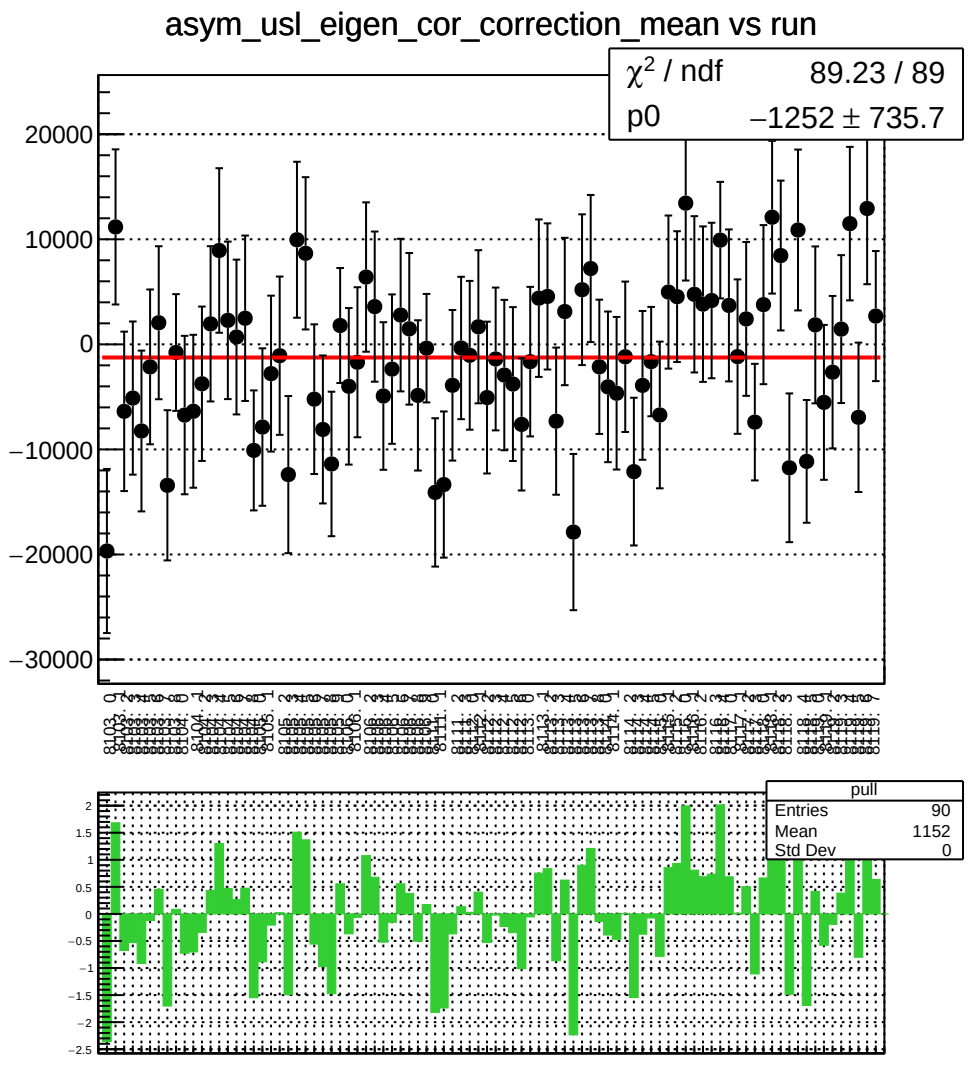

pull1D
Entries 90
Mean 0.006193
Std Dev 0.9981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

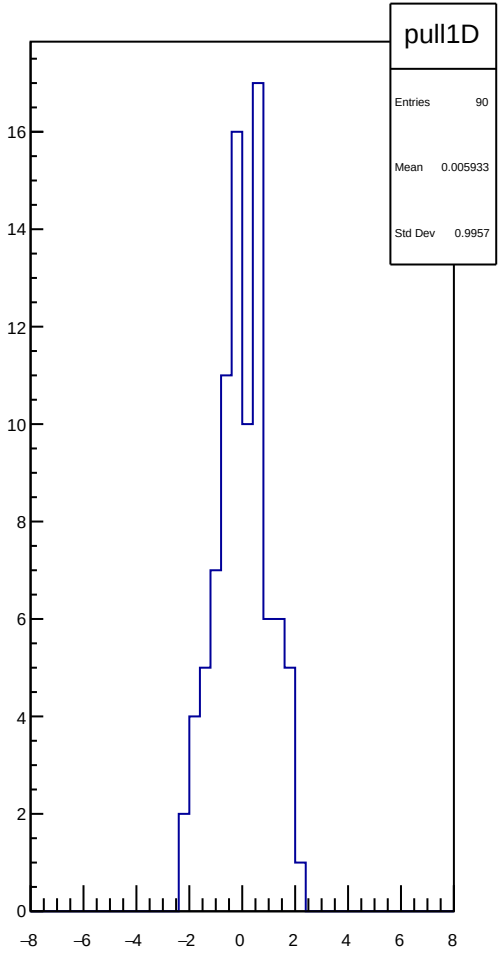

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1379 / 89
p0 690.4 ± 0.5208
760
740
720
700
680
660
640

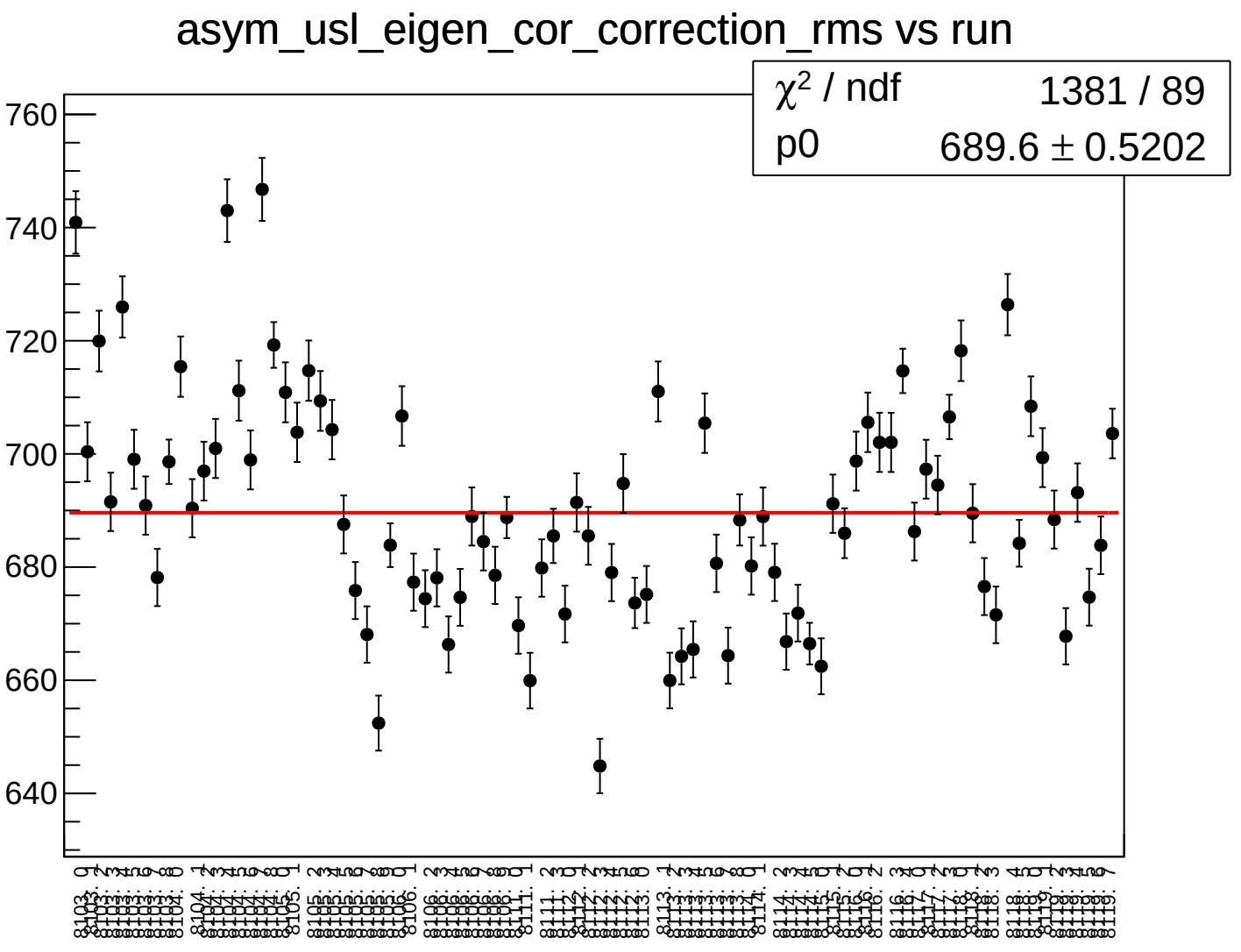

eigen_cor_asym_usl_mean vs run
χ² / ndf 100.1 / 89
p0 2206 ± 1132
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −496.6
Std Dev 0
3
2
1
0
−1
−2

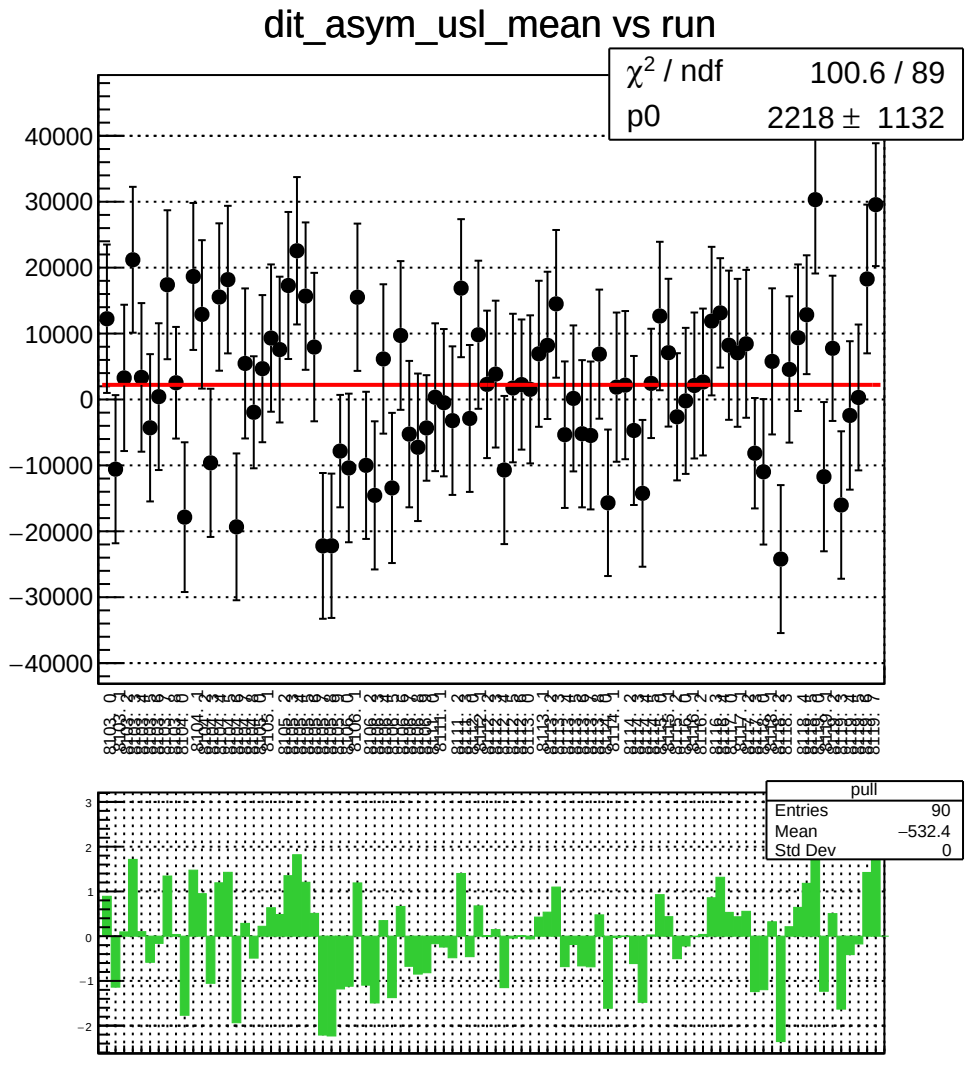

pull1D
Entries 90
Mean −0.001257
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

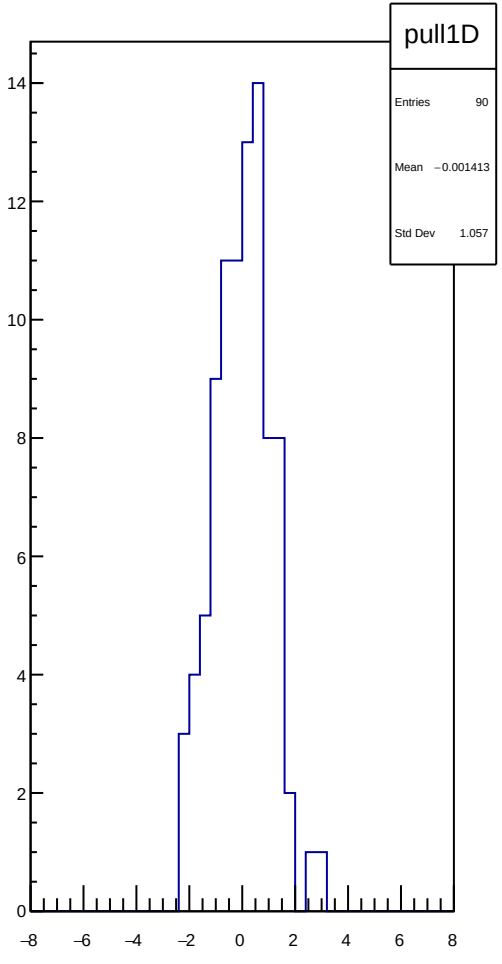

eigen_cor_asym_usl_rms vs run
χ² / ndf 96.28 / 89
p0 1061 ± 0.8004
1090
1080
1070
1060
1050
1040
1030

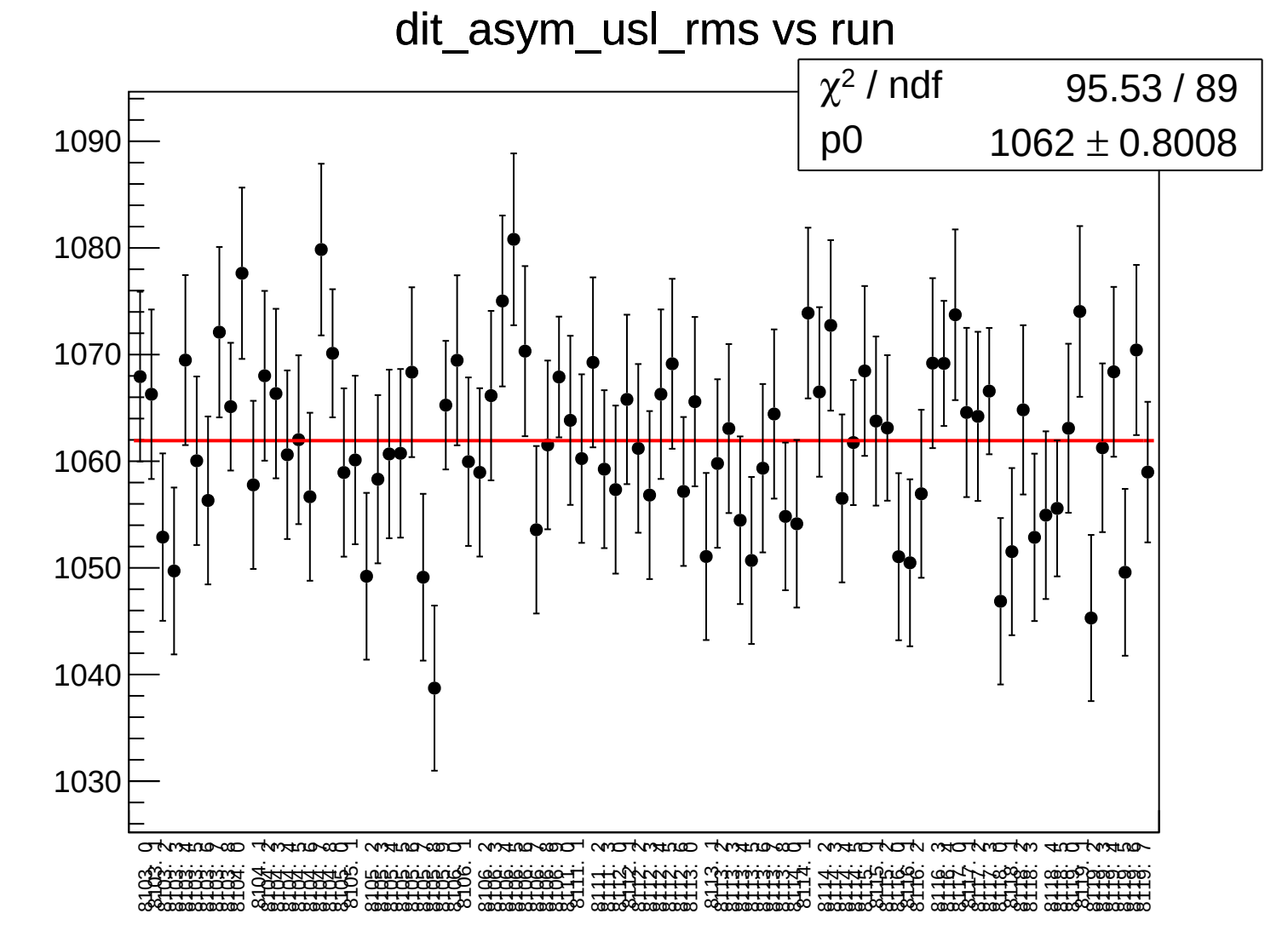

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 89.23 / 89
p0 −1252 ± 735.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1152
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

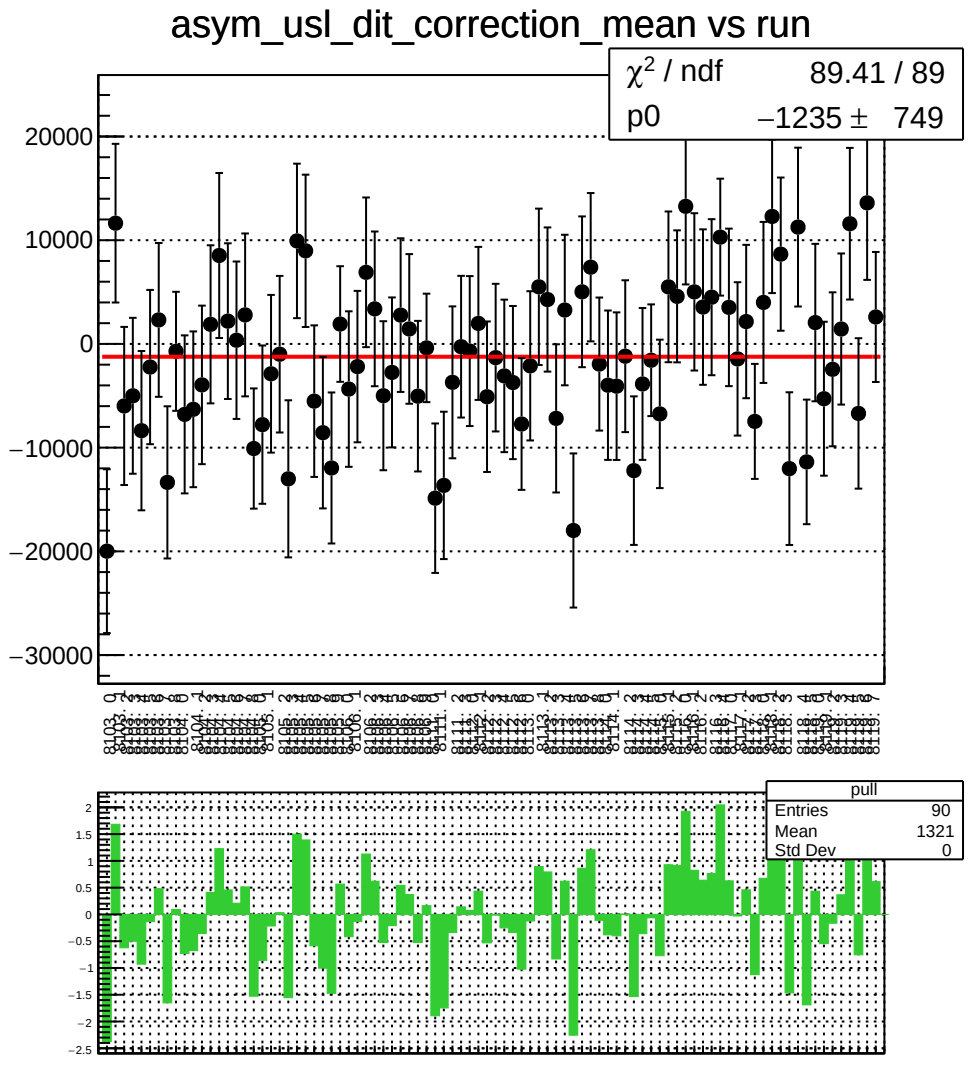

pull1D
Entries 90
Mean 0.005933
Std Dev 0.9957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

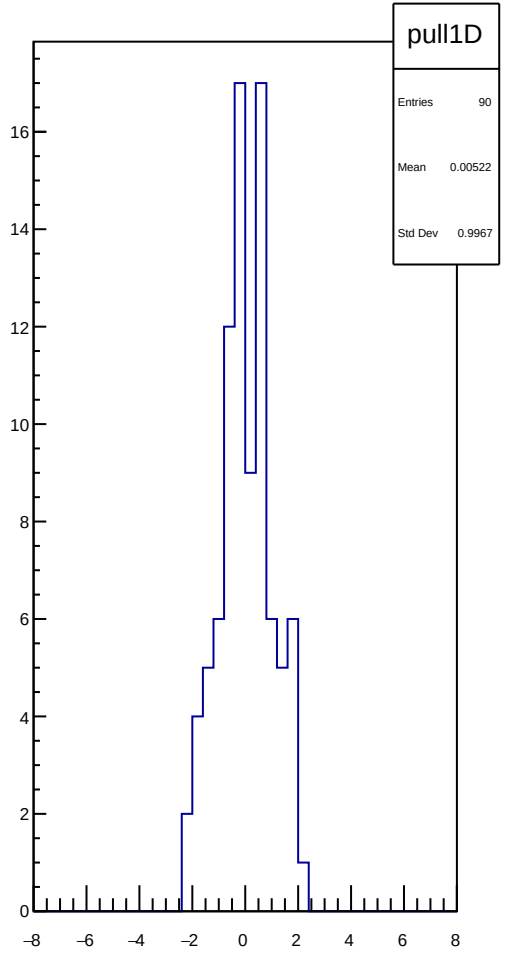

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1381 / 89
p0 689.6 ± 0.5202
760
740
720
700
680
660
640

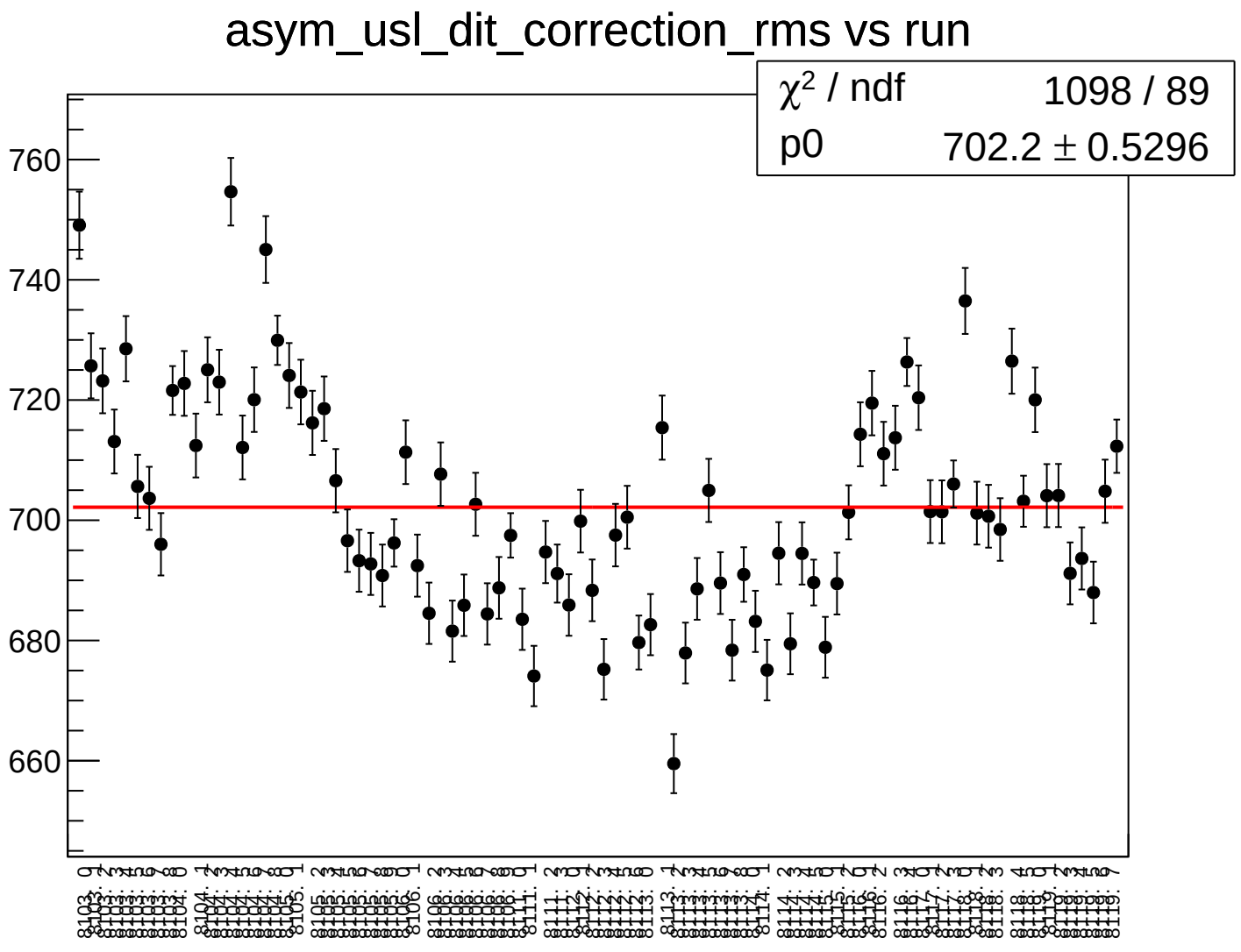

dit_asym_usl_mean vs run
χ² / ndf 100.6 / 89
p0 2218 ± 1132
pull
Entries 90
Mean −532.4
Std Dev 0

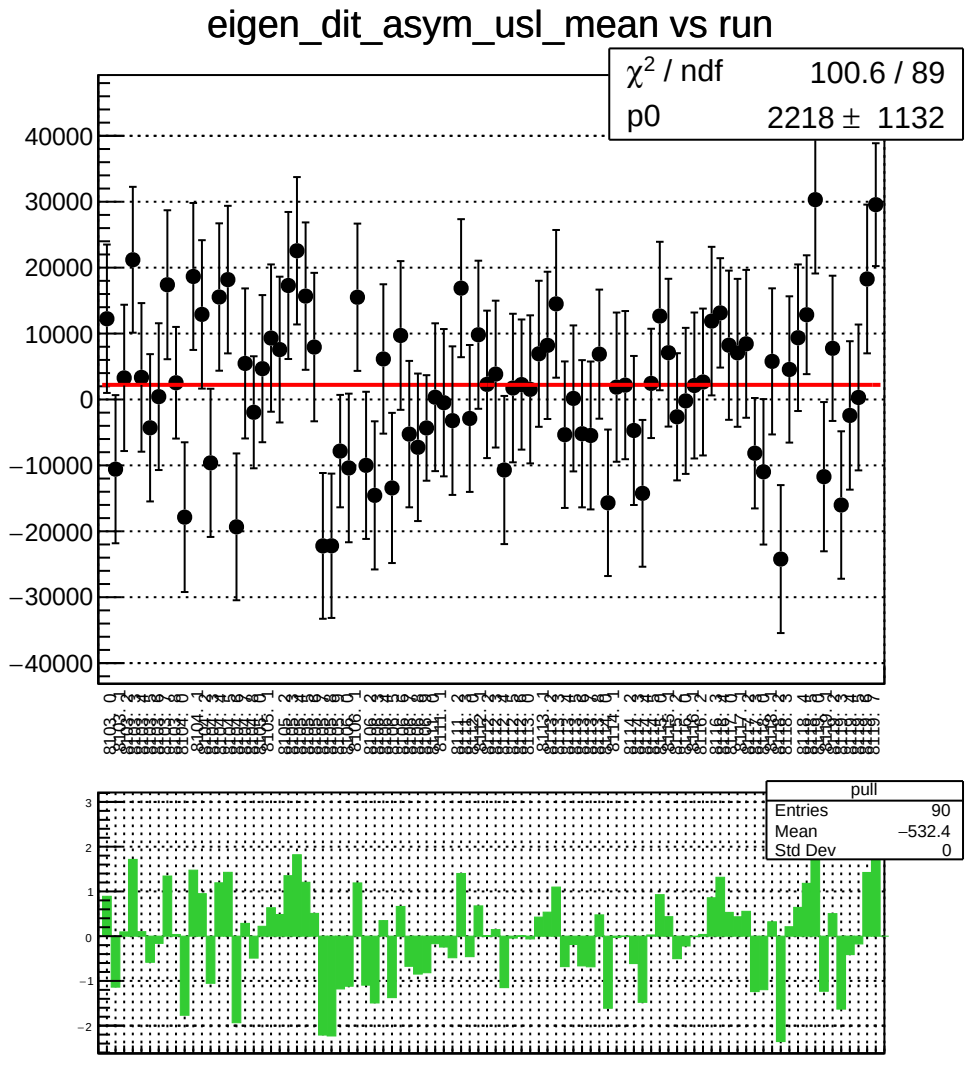

pull1D
Entries 90
Mean −0.001413
Std Dev 1.057

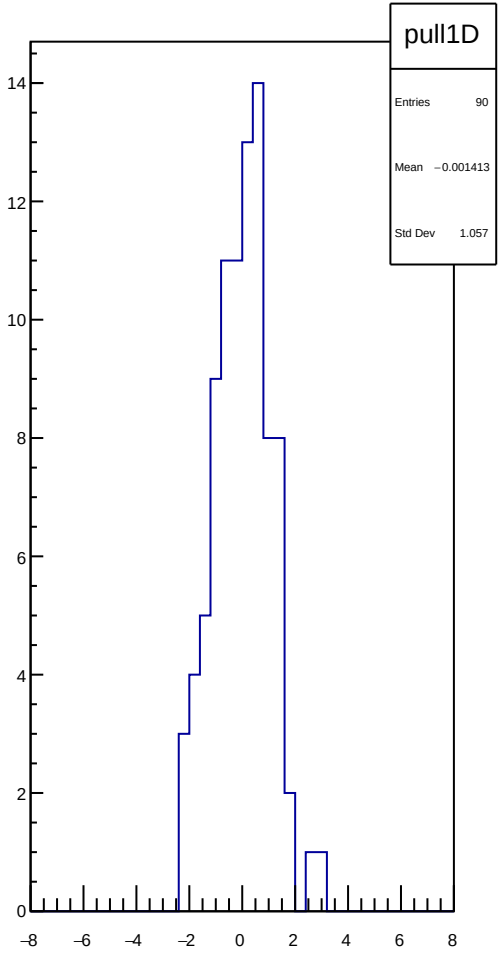

dit_asym_usl_rms vs run
χ^2 / ndf 95.53 / 89
p0 1062 ± 0.8008
1090
1080
1070
1060
1050
1040
1030

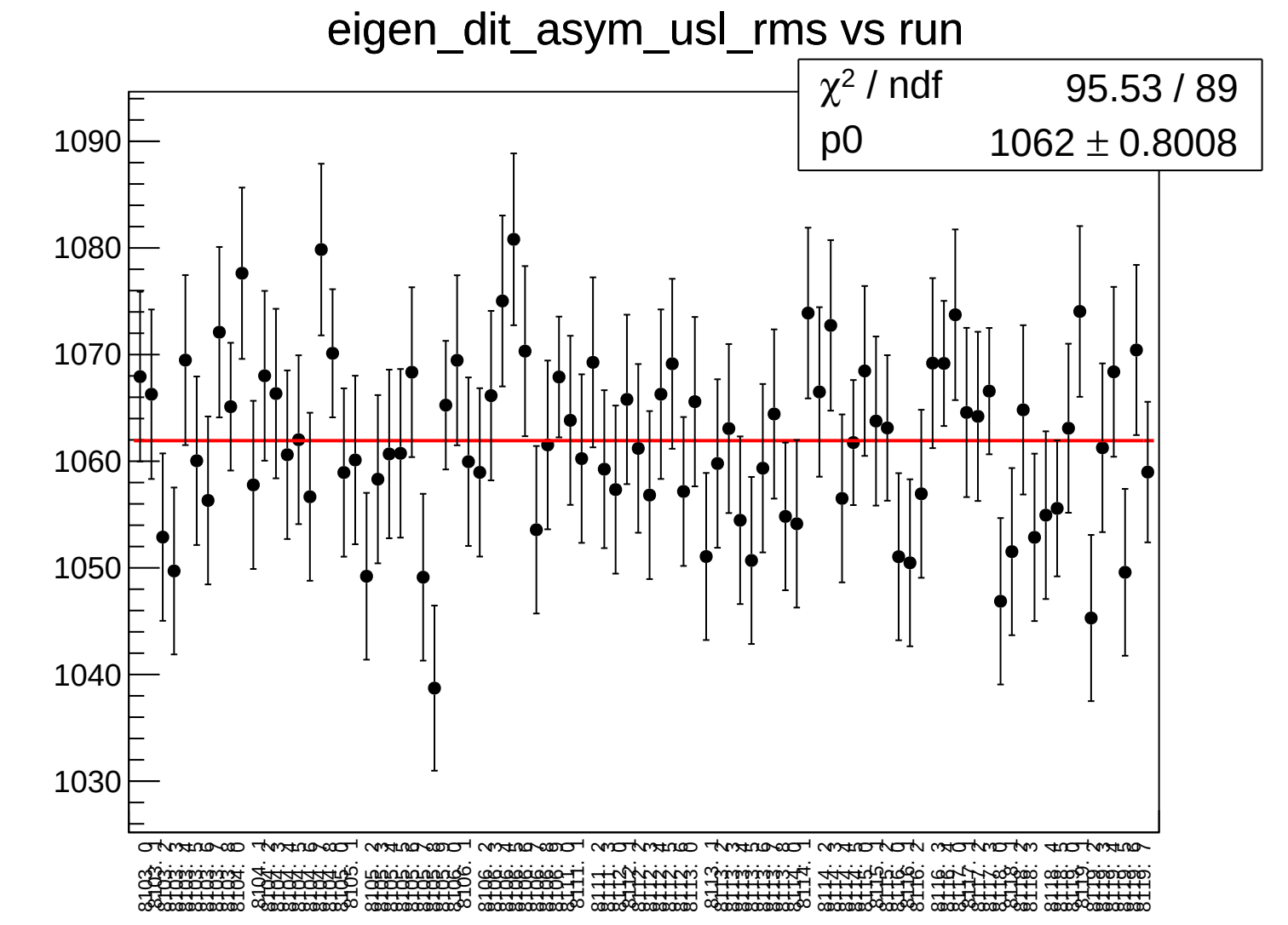

asym_usl_dit_correction_mean vs run
χ² / ndf 89.41 / 89
p0 −1235 ± 749
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1321
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

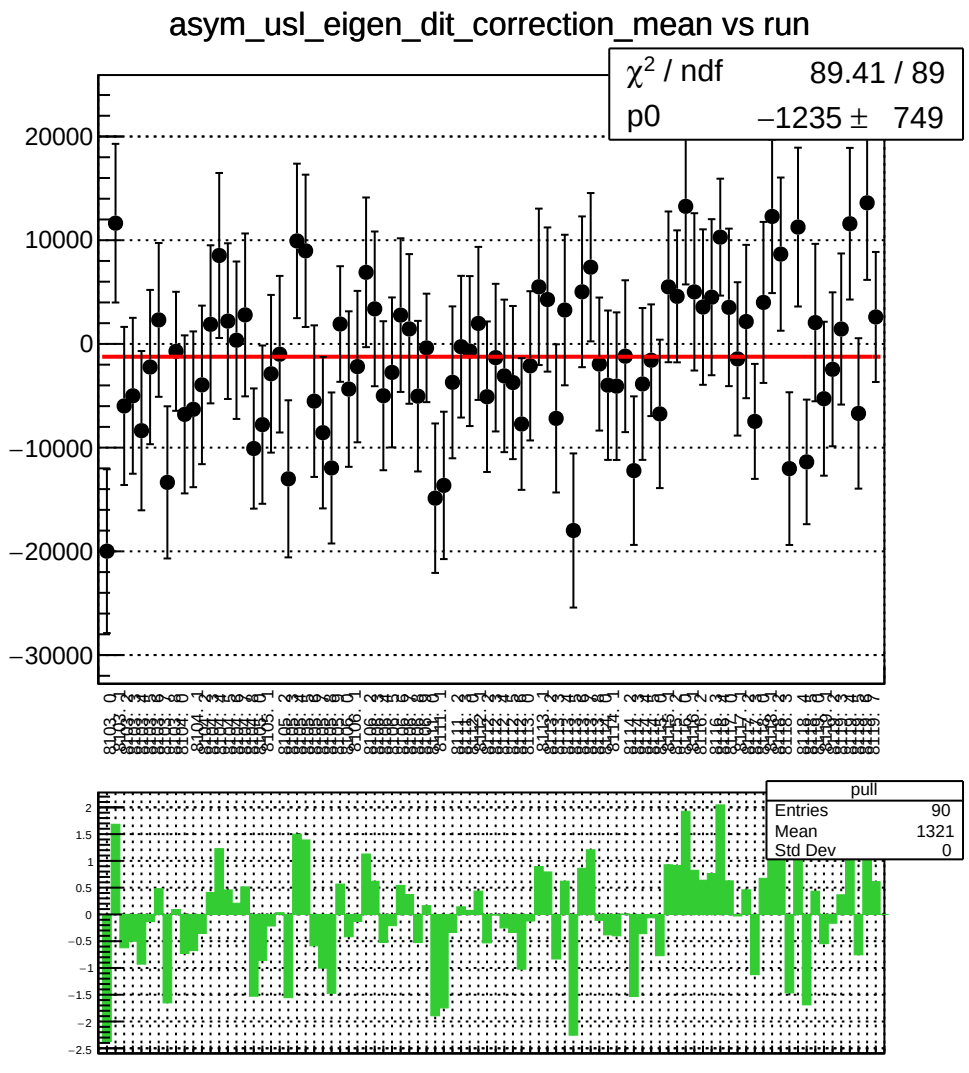

pull1D
Entries 90
Mean 0.00522
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

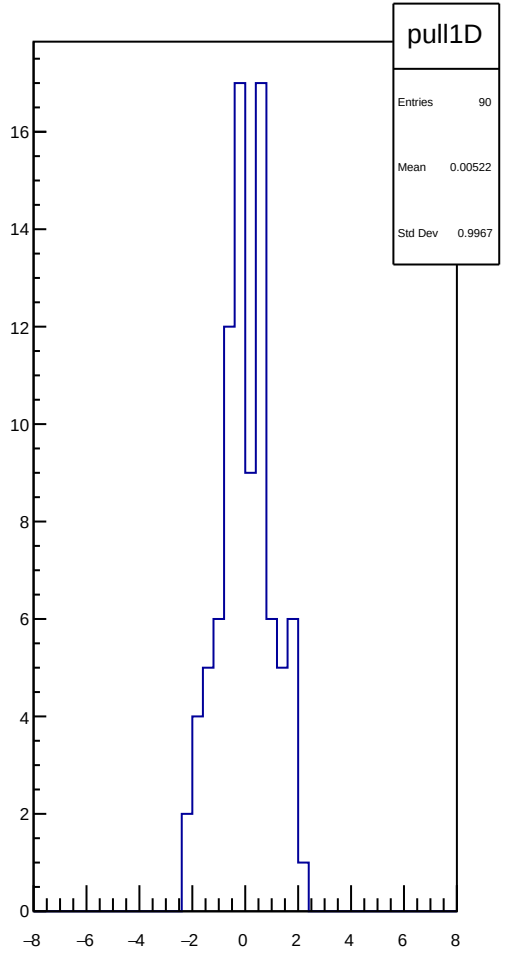

asym_usl_dit_correction_rms vs run
χ² / ndf 1098 / 89
p0 702.2 ± 0.5296
760
740
720
700
680
660

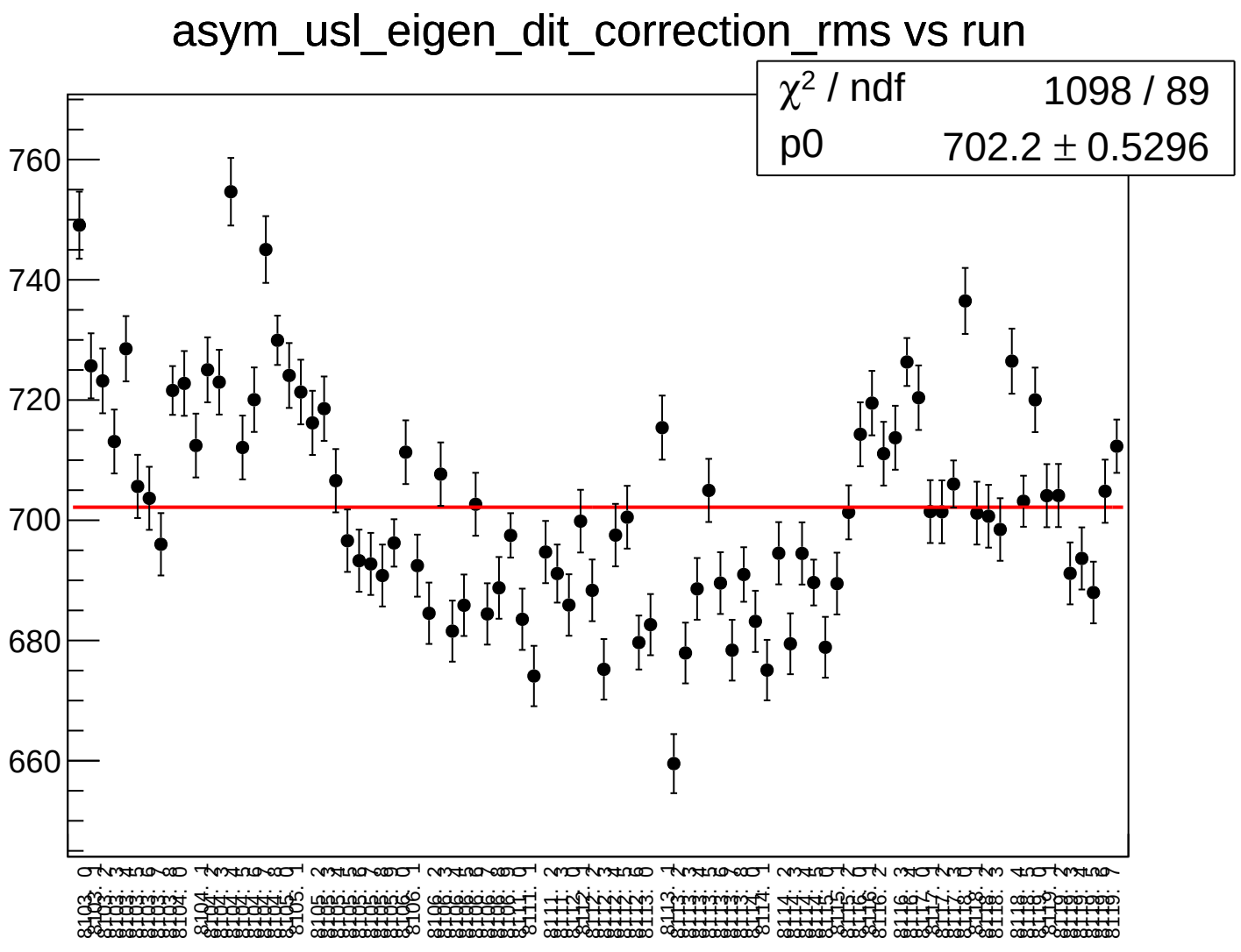

eigen_dit_asym_usl_mean vs run
χ² / ndf 100.6 / 89
p0 2218 ± 1132
pull
Entries 90
Mean −532.4
Std Dev 0

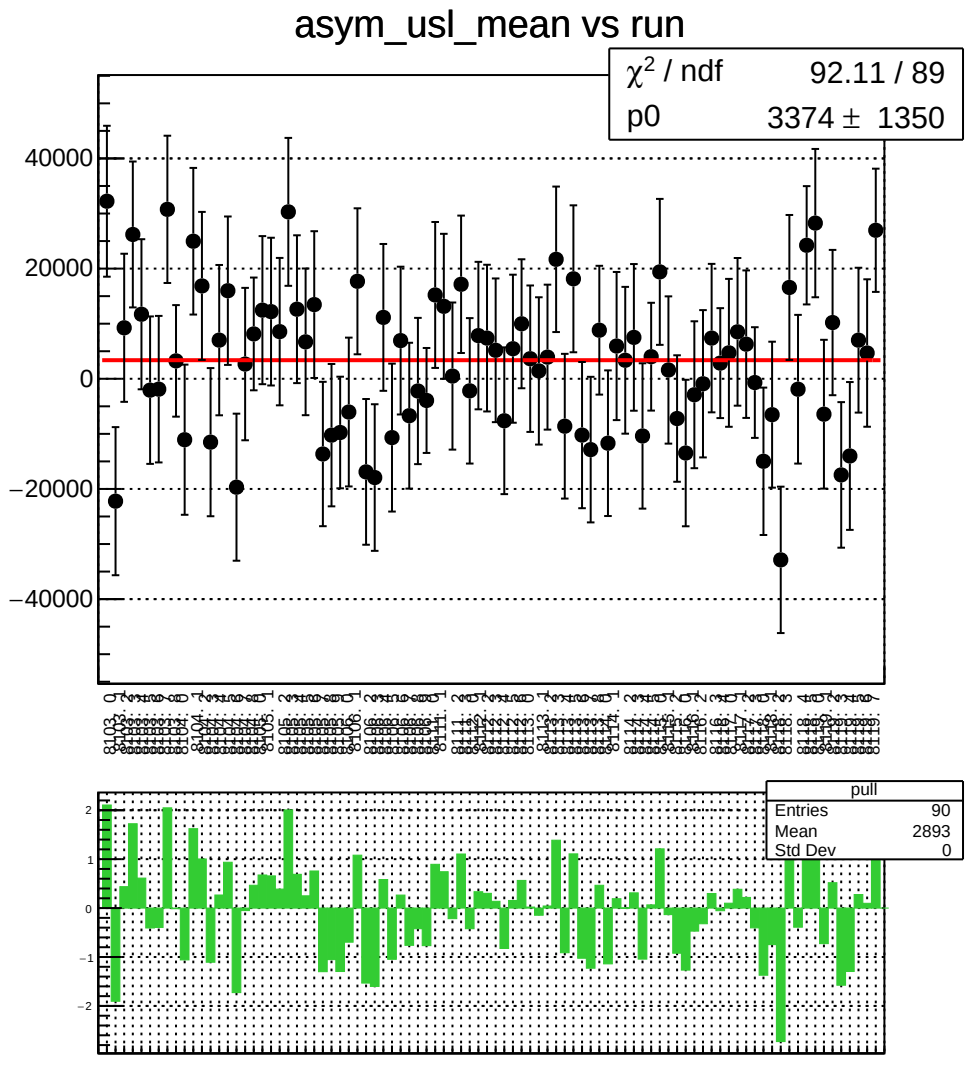

pull1D
Entries 90
Mean −0.001413
Std Dev 1.057

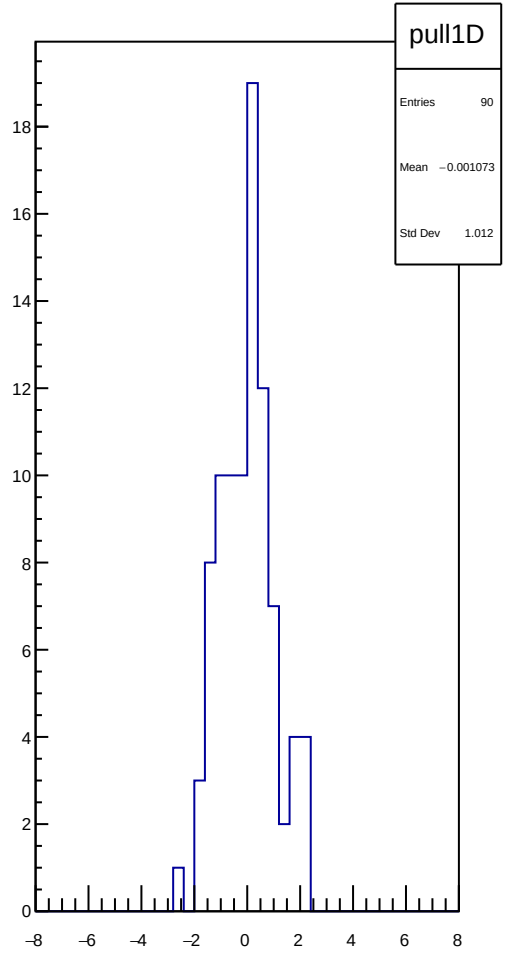

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 95.53 / 89
p0 1062 ± 0.8008
1090
1080
1070
1060
1050
1040
1030

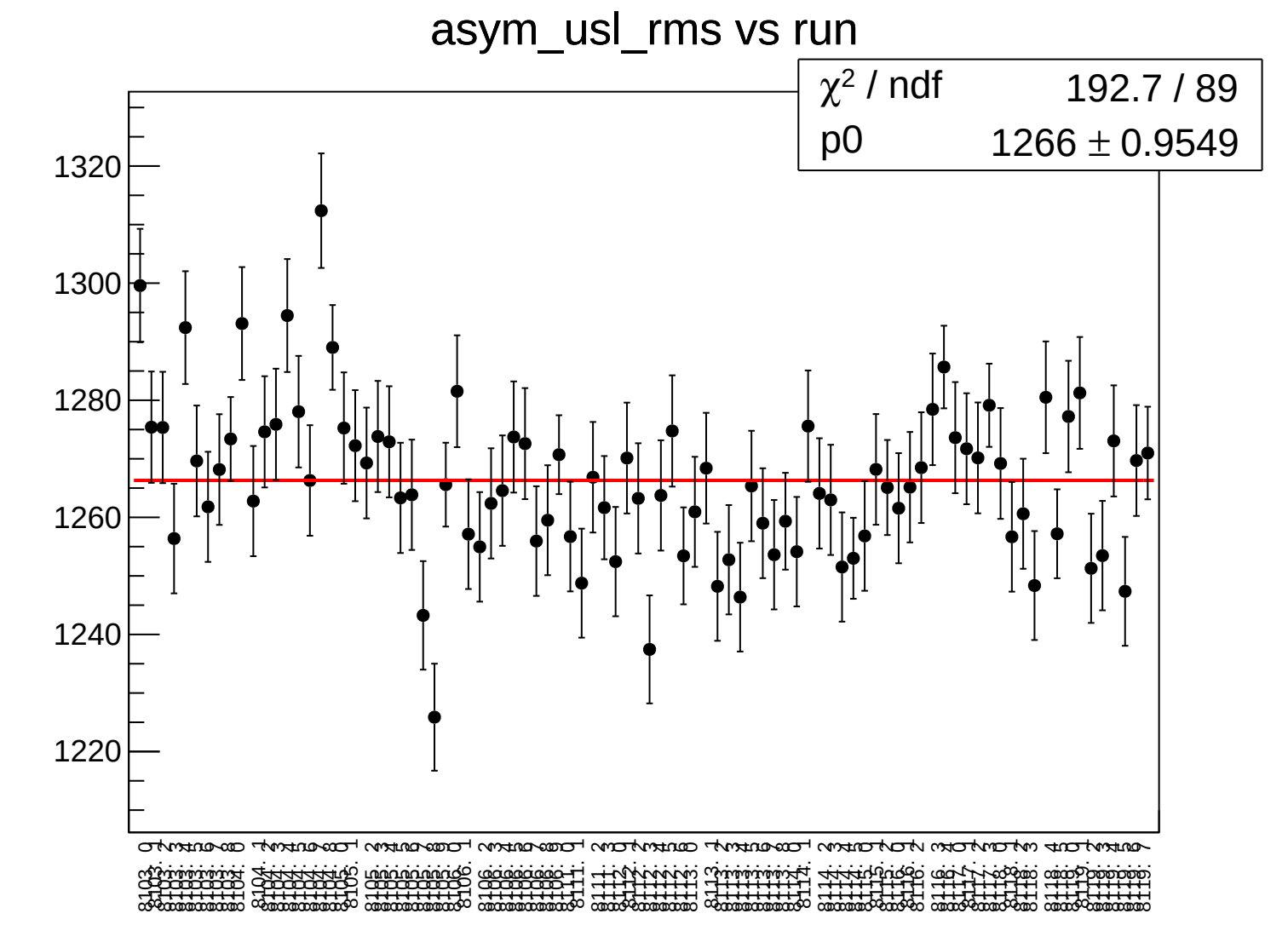

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 89.41 / 89
p0 −1235 ± 749
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1321
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

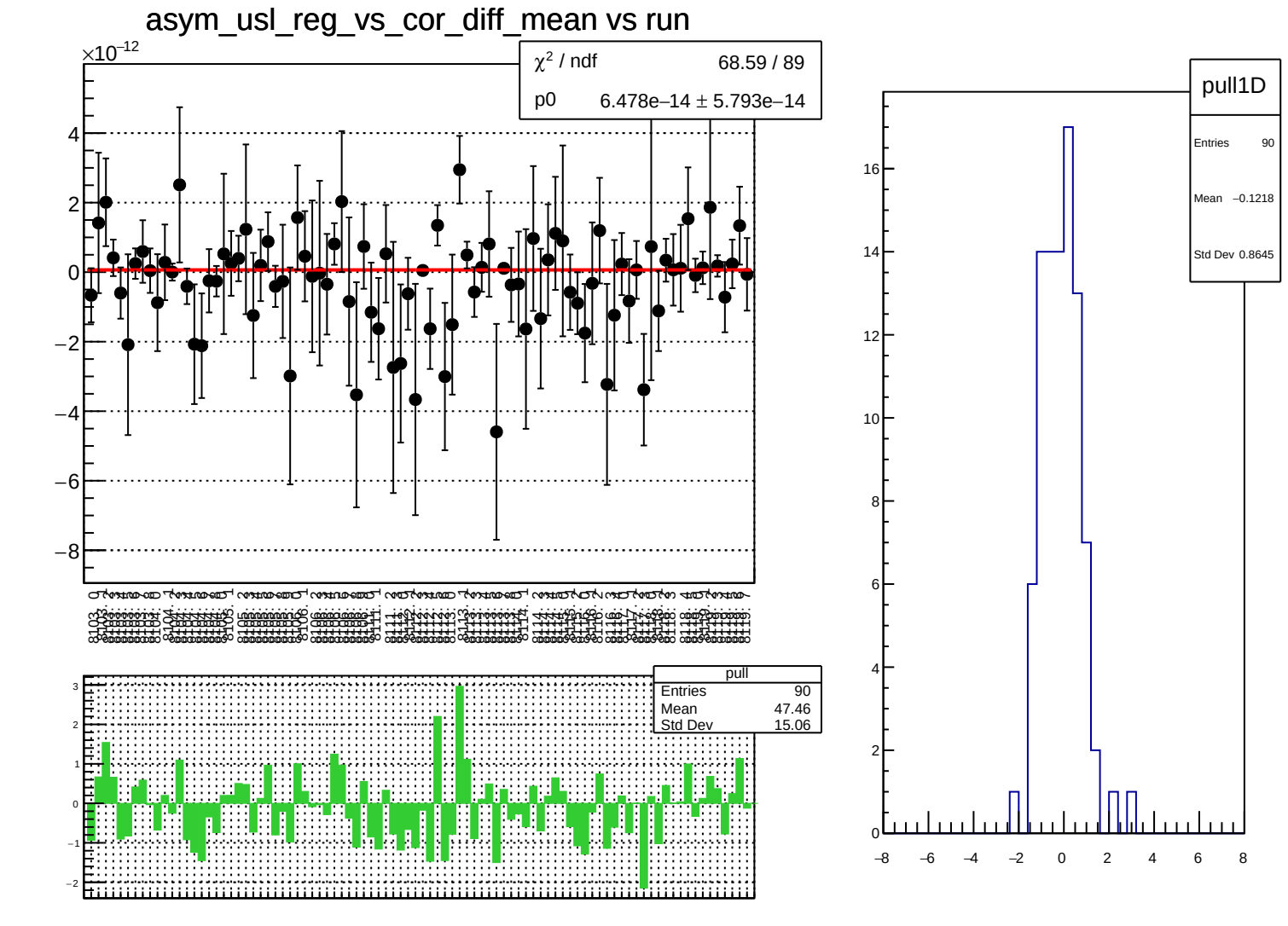

pull1D
Entries 90
Mean 0.00522
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

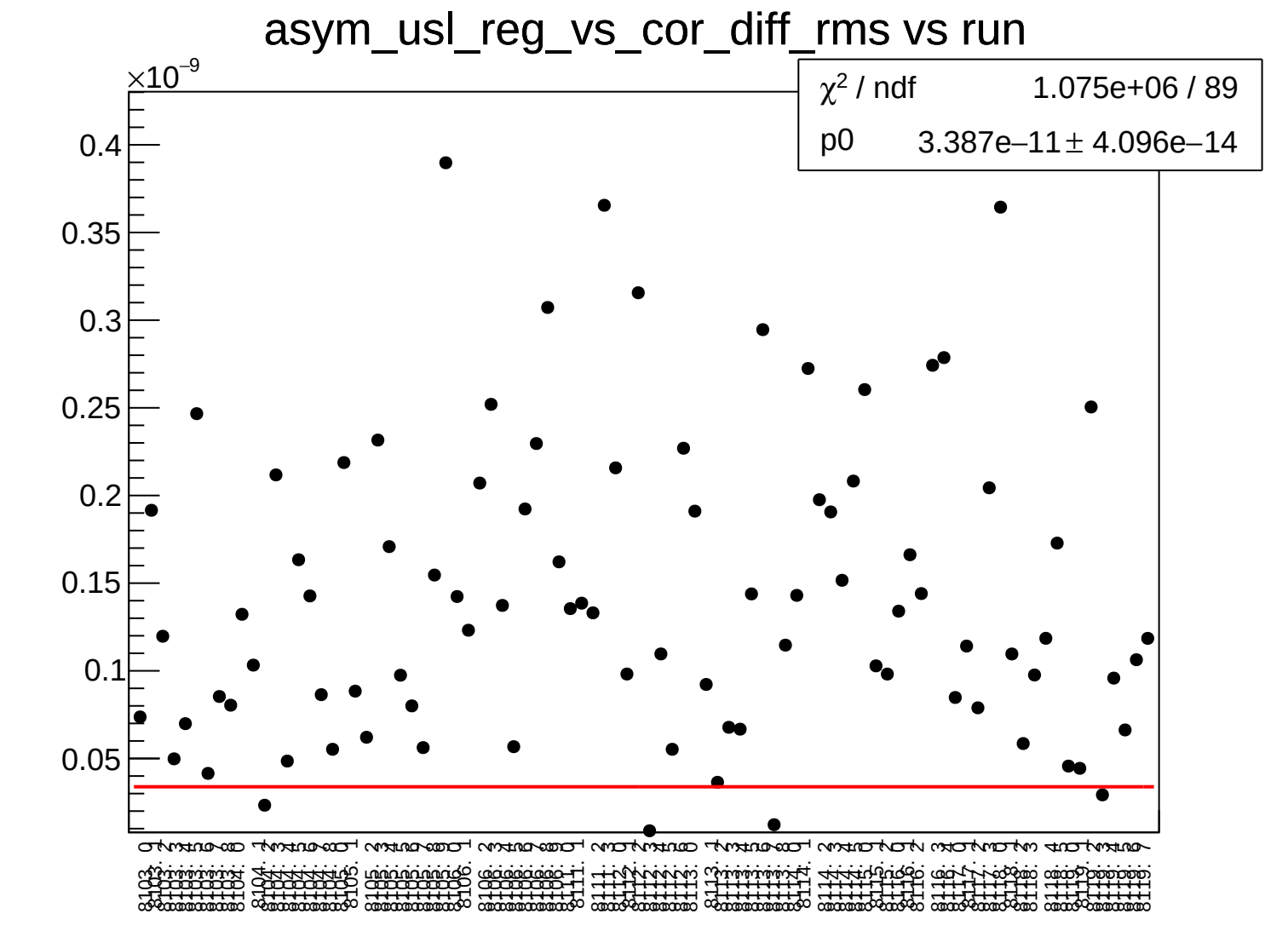

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1098 / 89
p0 702.2 ± 0.5296
760
740
720
700
680
660

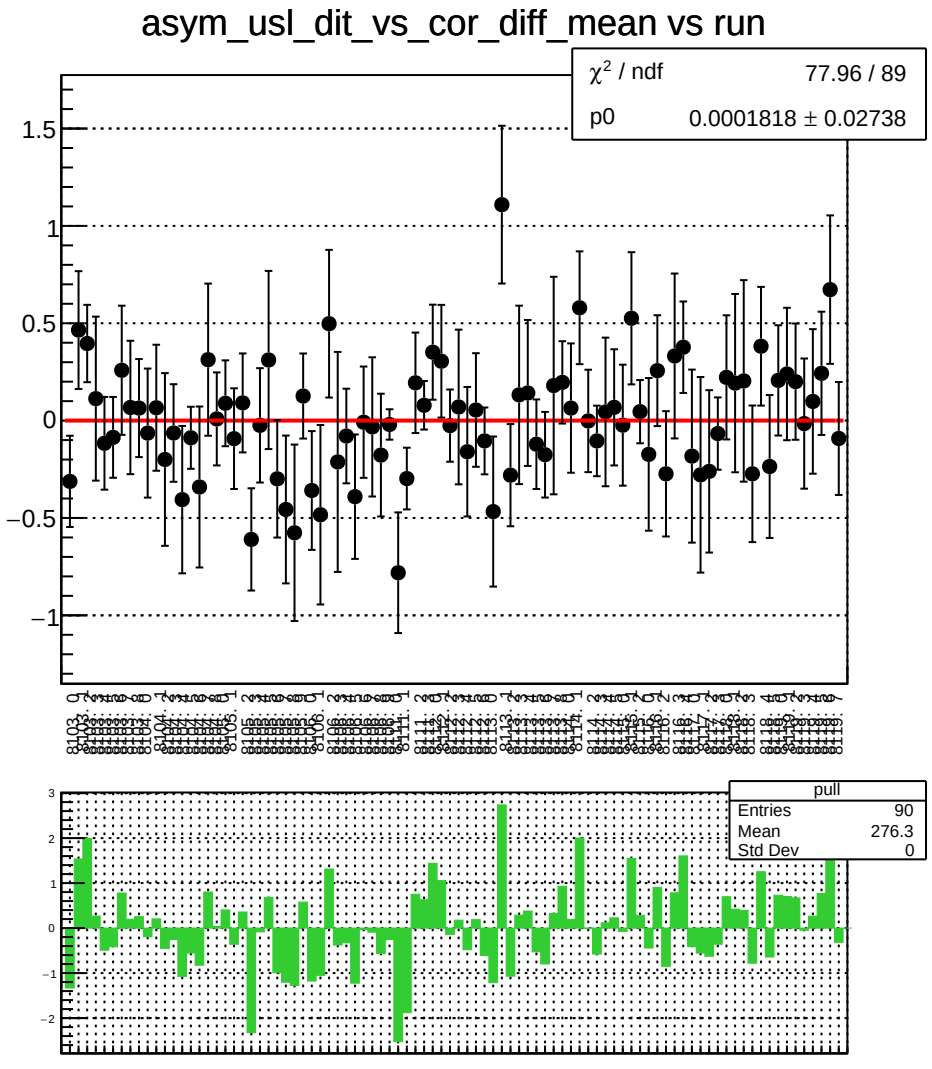

asym_usl_mean vs run
χ² / ndf 92.11 / 89
p0 3374 ± 1350
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 2893
Std Dev 0
2
1
0
−1
−2

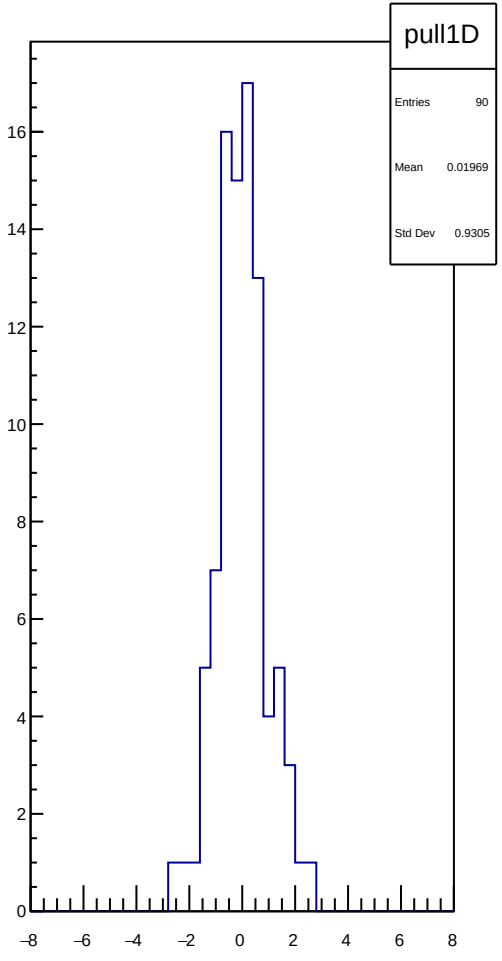

pull1D
Entries 90
Mean −0.001073
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

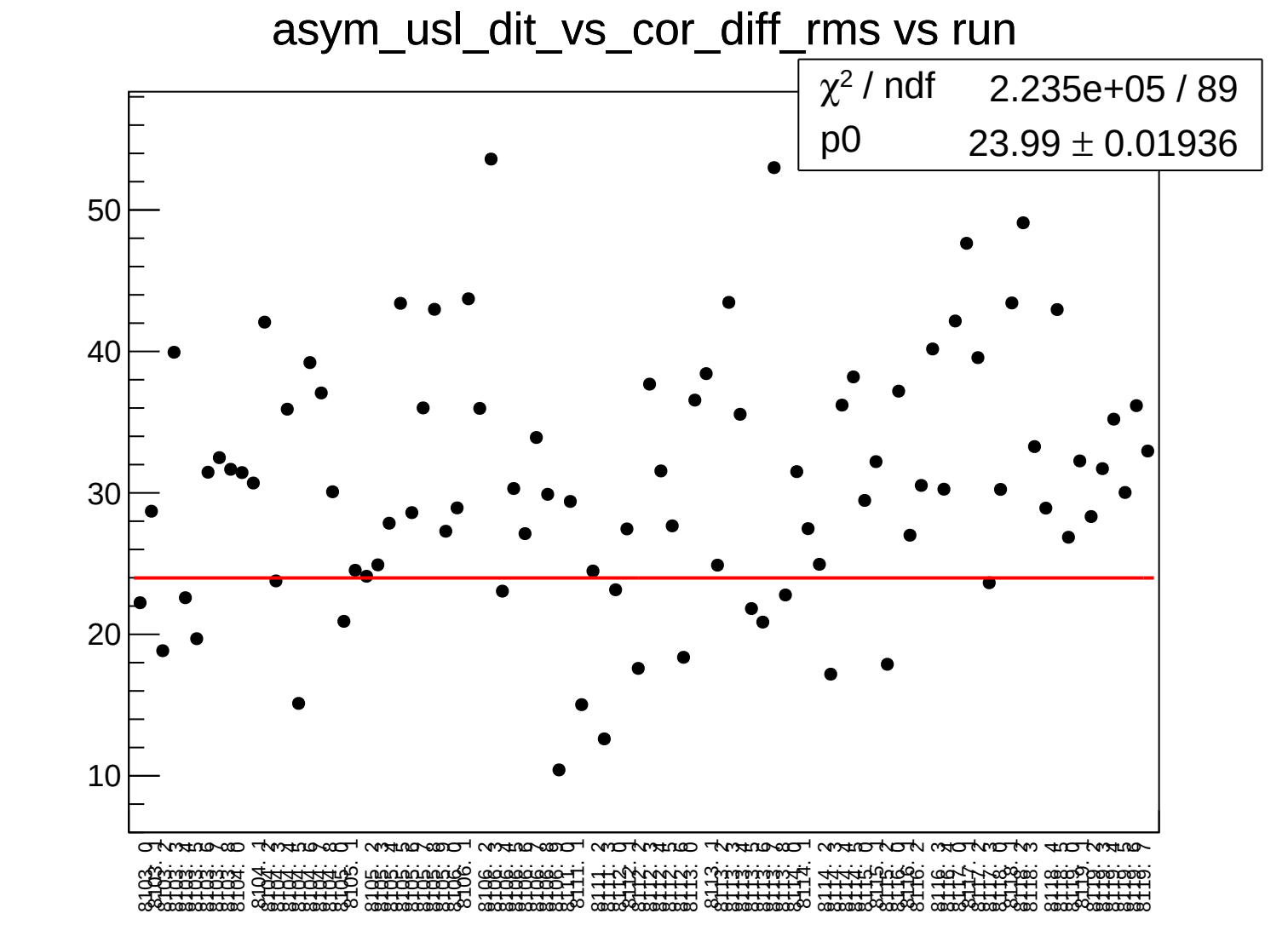

asym_usl_rms vs run
χ² / ndf 192.7 / 89
p0 1266 ± 0.9549
1320
1300
1280
1260
1240
1220

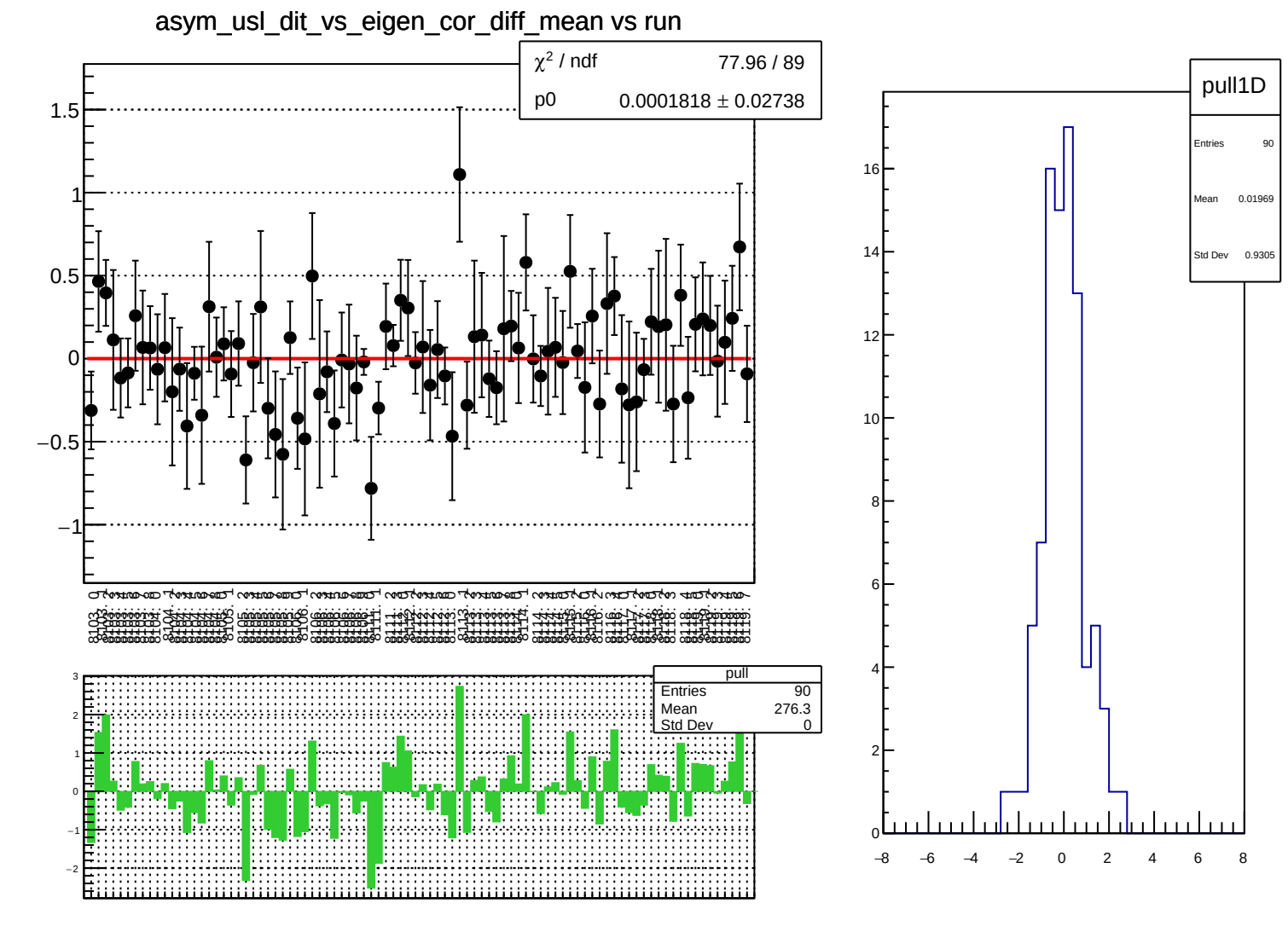

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.59 / 89
p0 6.478e−14 ± 5.793e−14
pull
Entries 90
Mean 47.46
Std Dev 15.06
pull1D
Entries 90
Mean −0.1218
Std Dev 0.8645

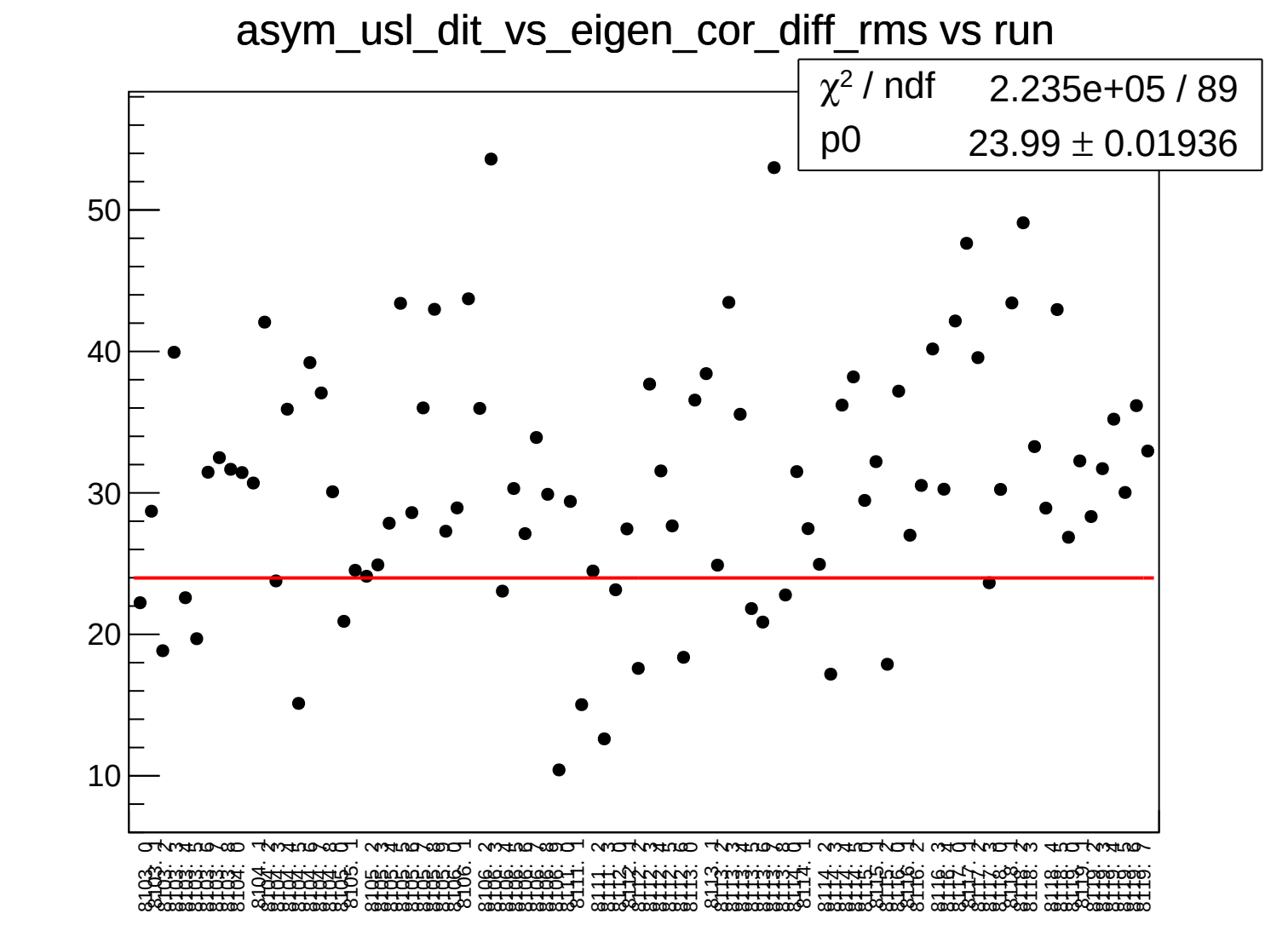

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.075e+06 / 89
p0 3.387e−11 ± 4.096e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

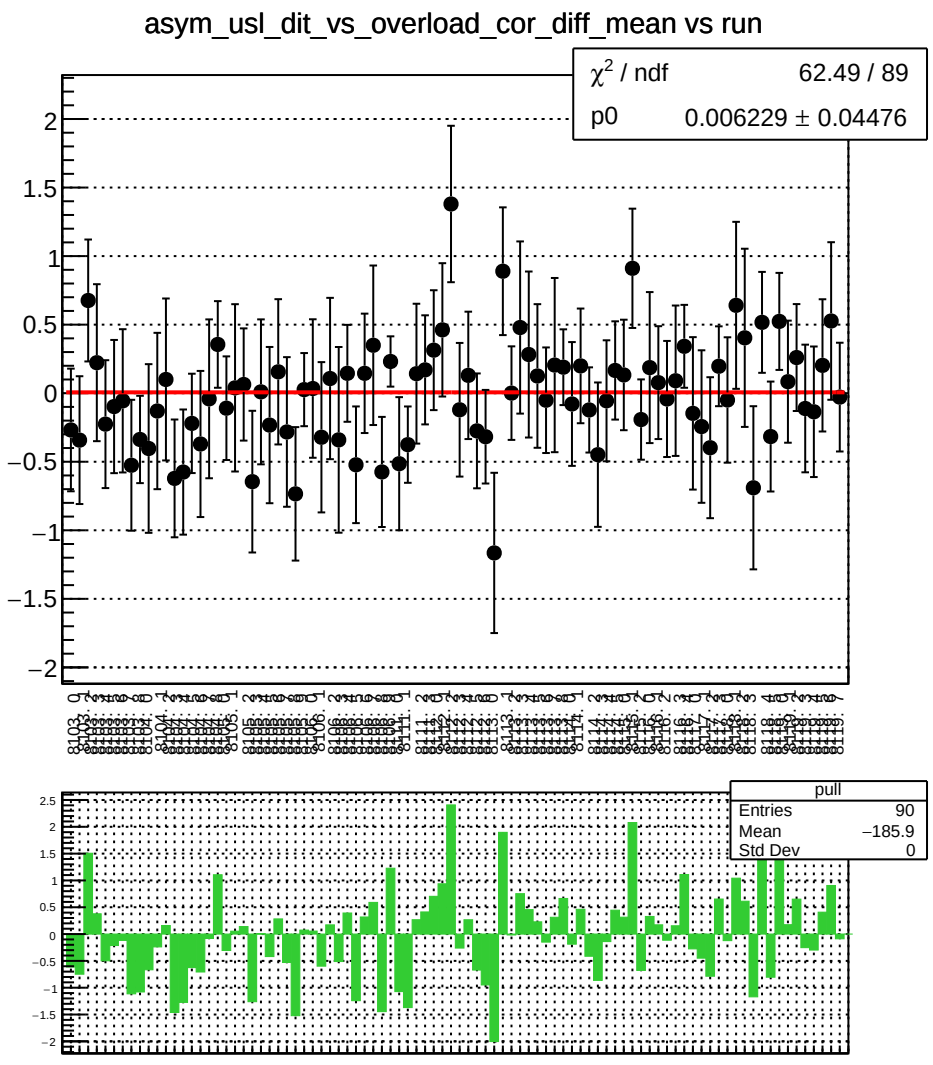

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 77.96 / 89
p0 0.0001818 ± 0.02738
pull
Entries 90
Mean 276.3
Std Dev 0

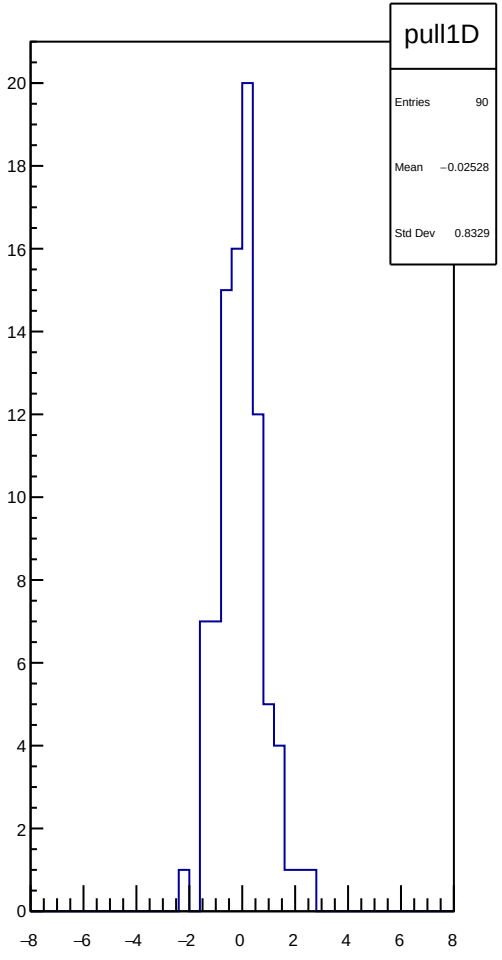

pull1D
Entries 90
Mean 0.01969
Std Dev 0.9305

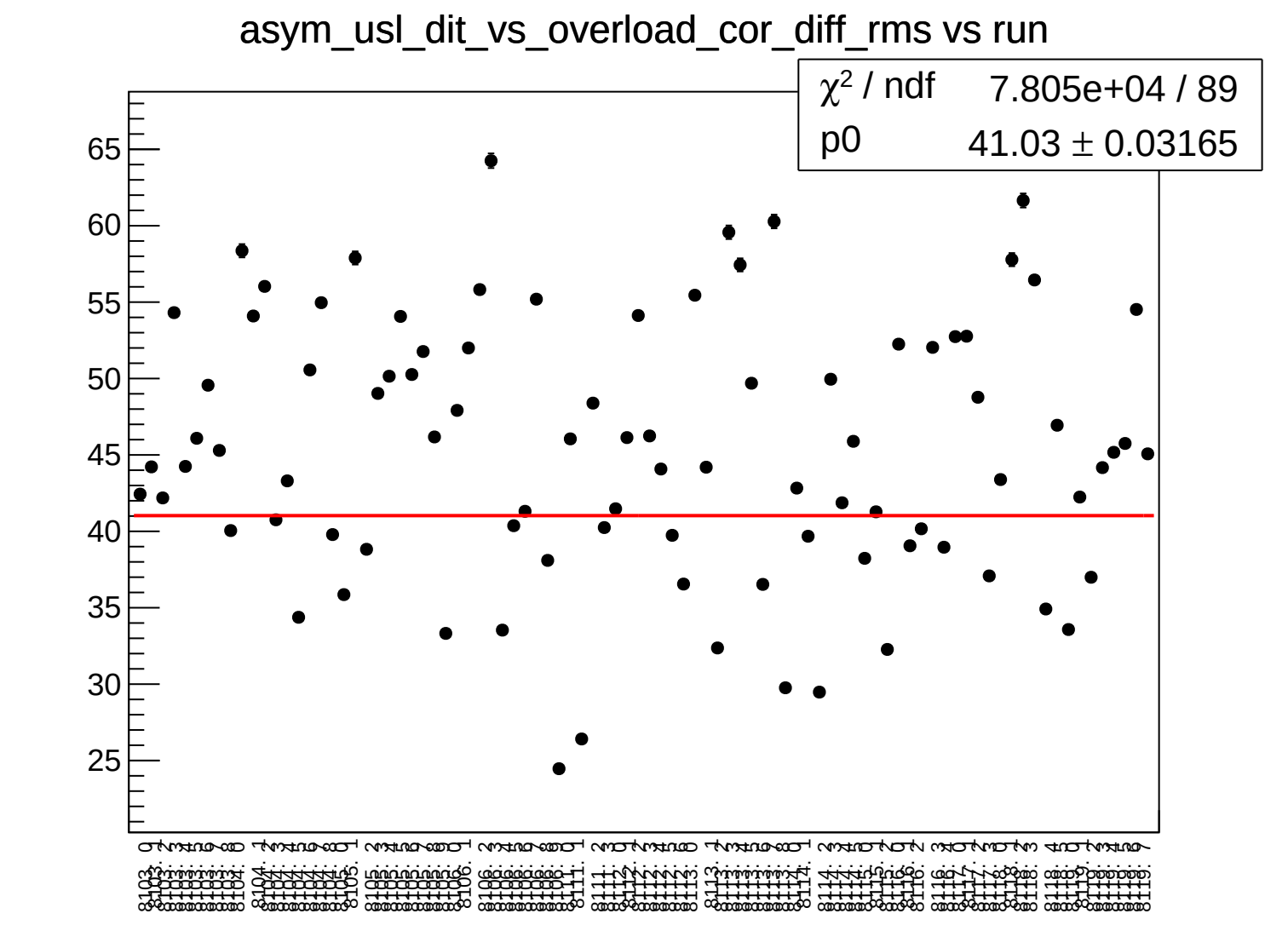

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.235e+05 / 89
p0 23.99 ± 0.01936
50
40
30
20
10

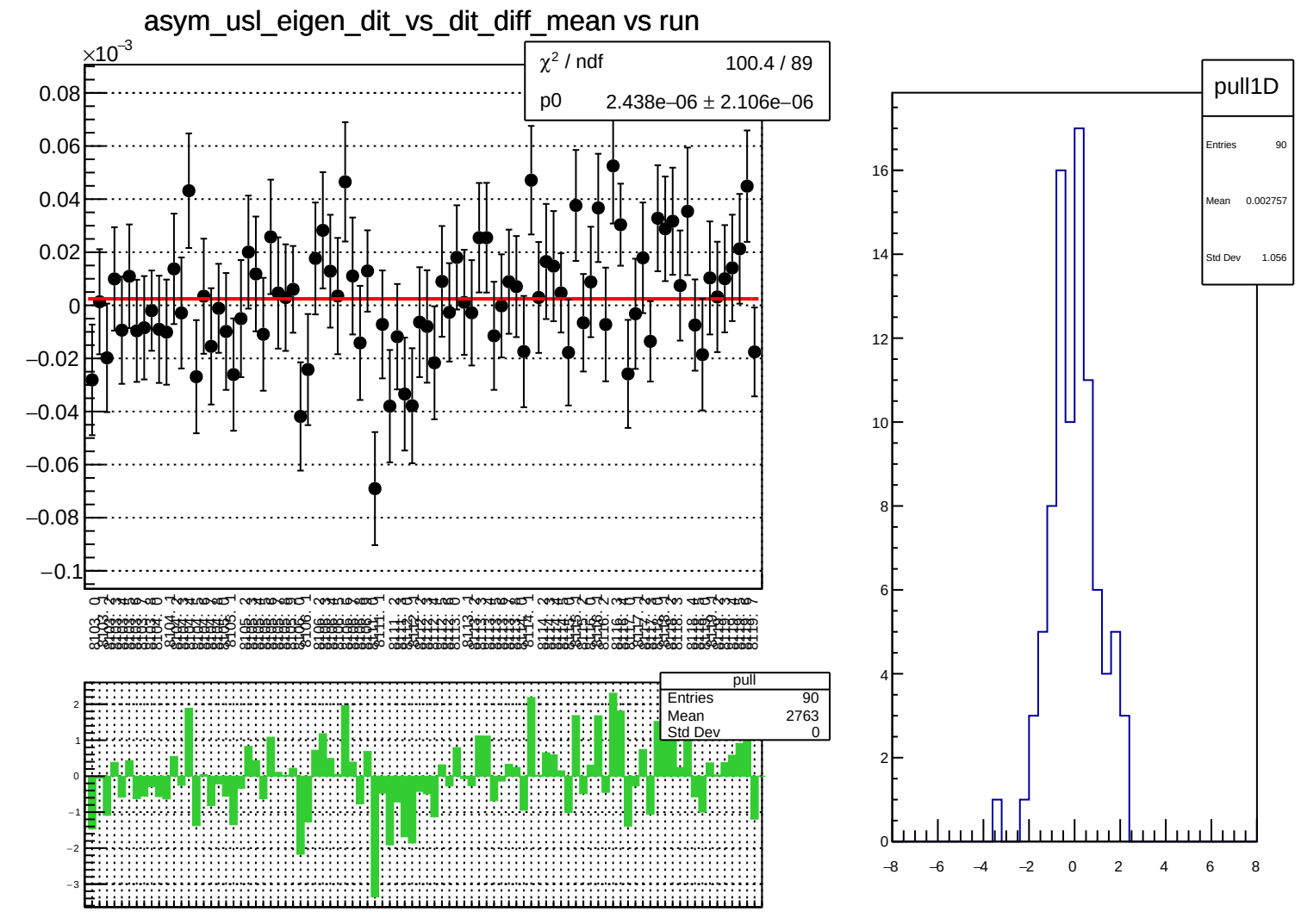

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.96 / 89
p0 0.0001818 ± 0.02738
pull
Entries 90
Mean 276.3
Std Dev 0
pull1D
Entries 90
Mean 0.01969
Std Dev 0.9305

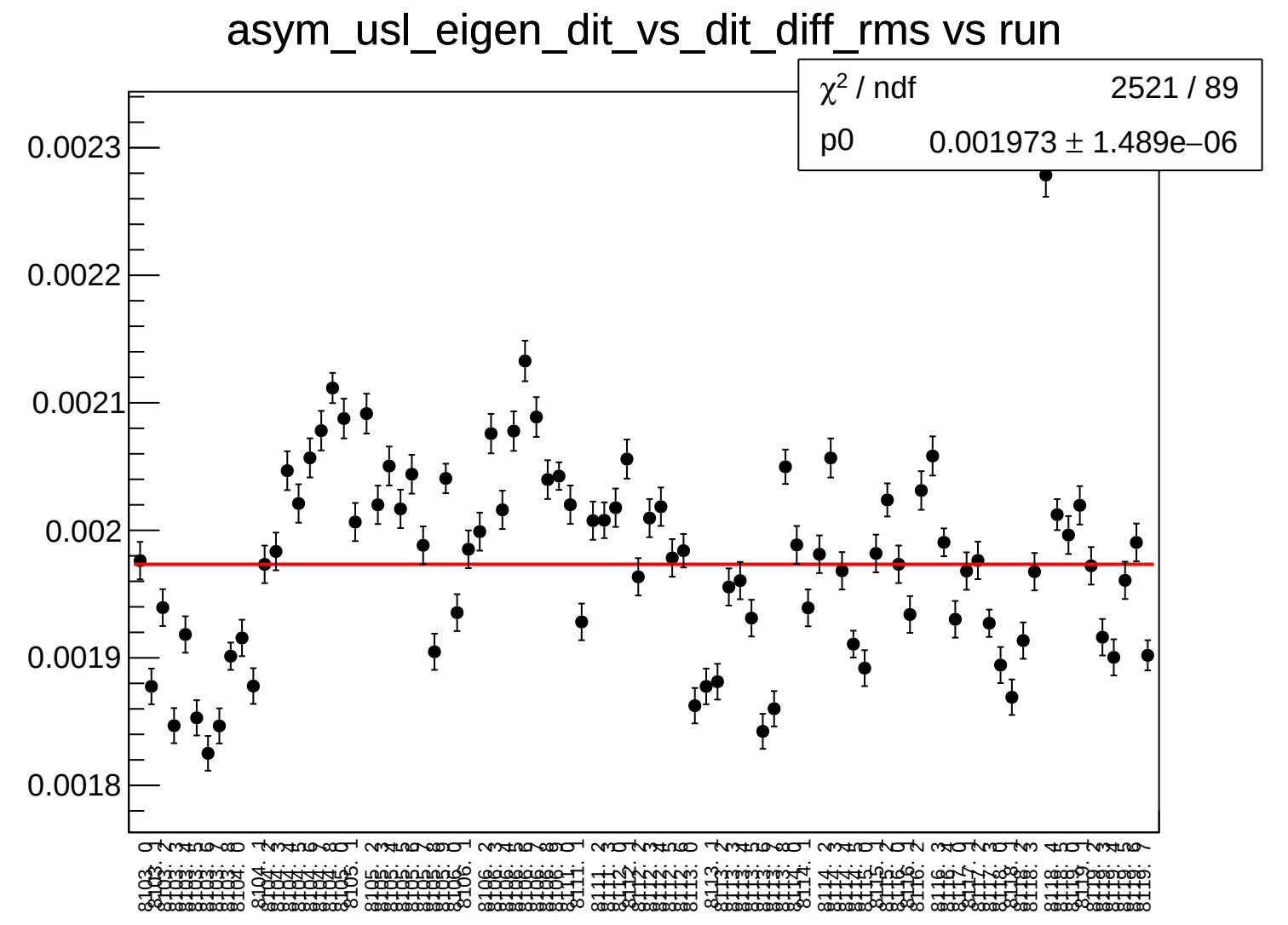

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.235e+05 / 89
p0 23.99 ± 0.01936
50
40
30
20
10

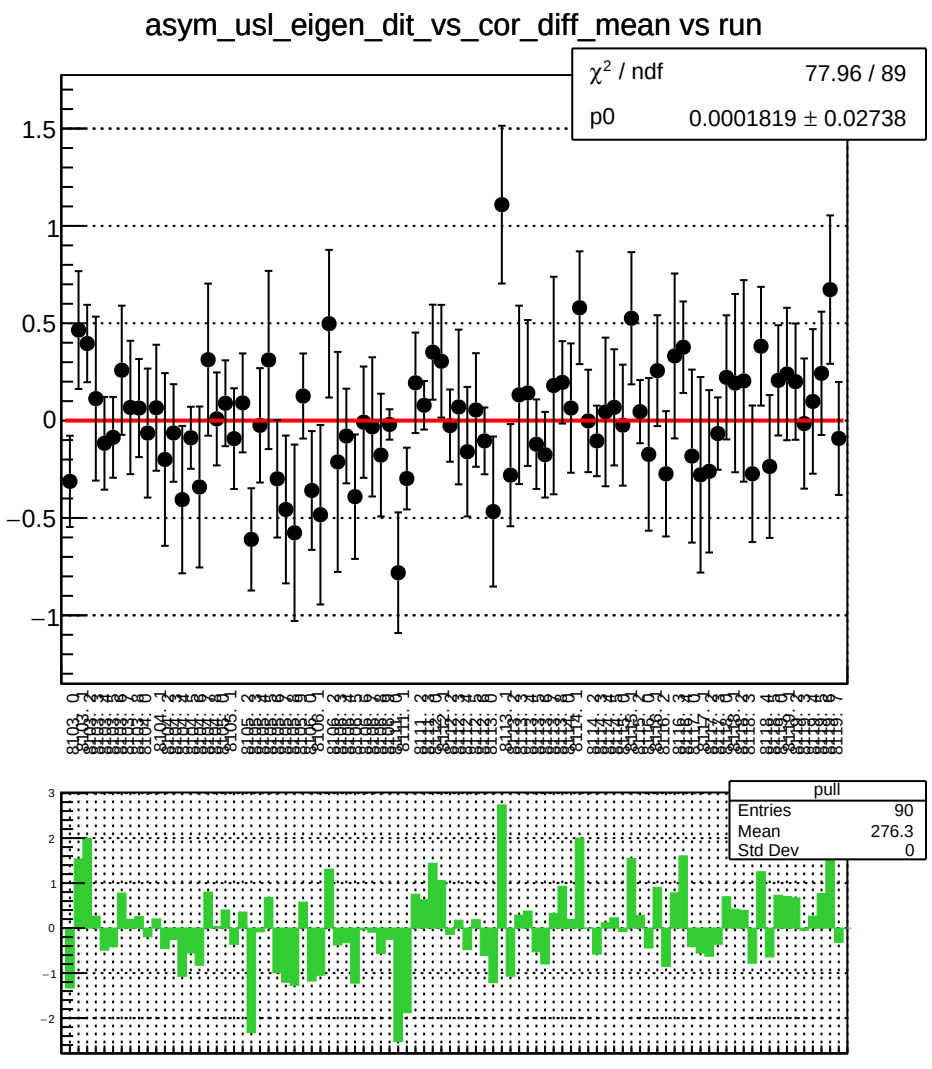

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 62.49 / 89
p0 0.006229 ± 0.04476
pull
Entries 90
Mean −185.9
Std Dev 0

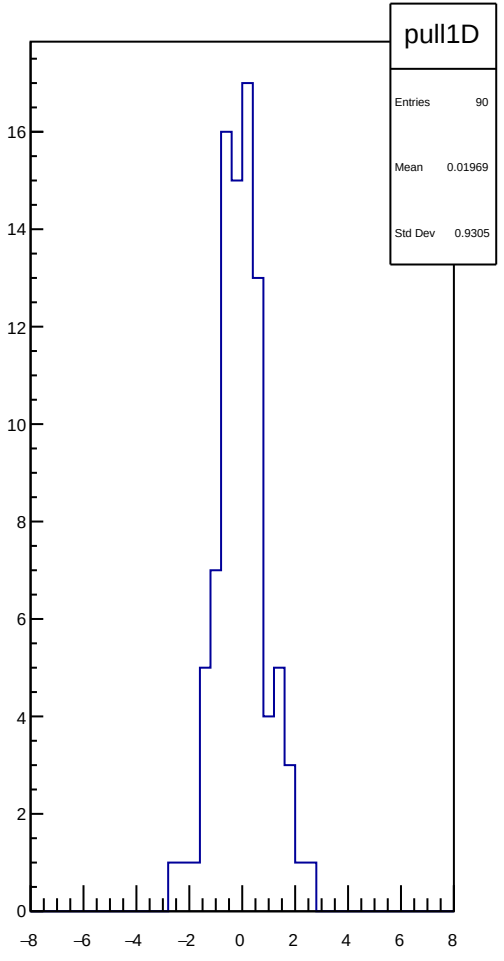

pull1D
Entries 90
Mean −0.02528
Std Dev 0.8329

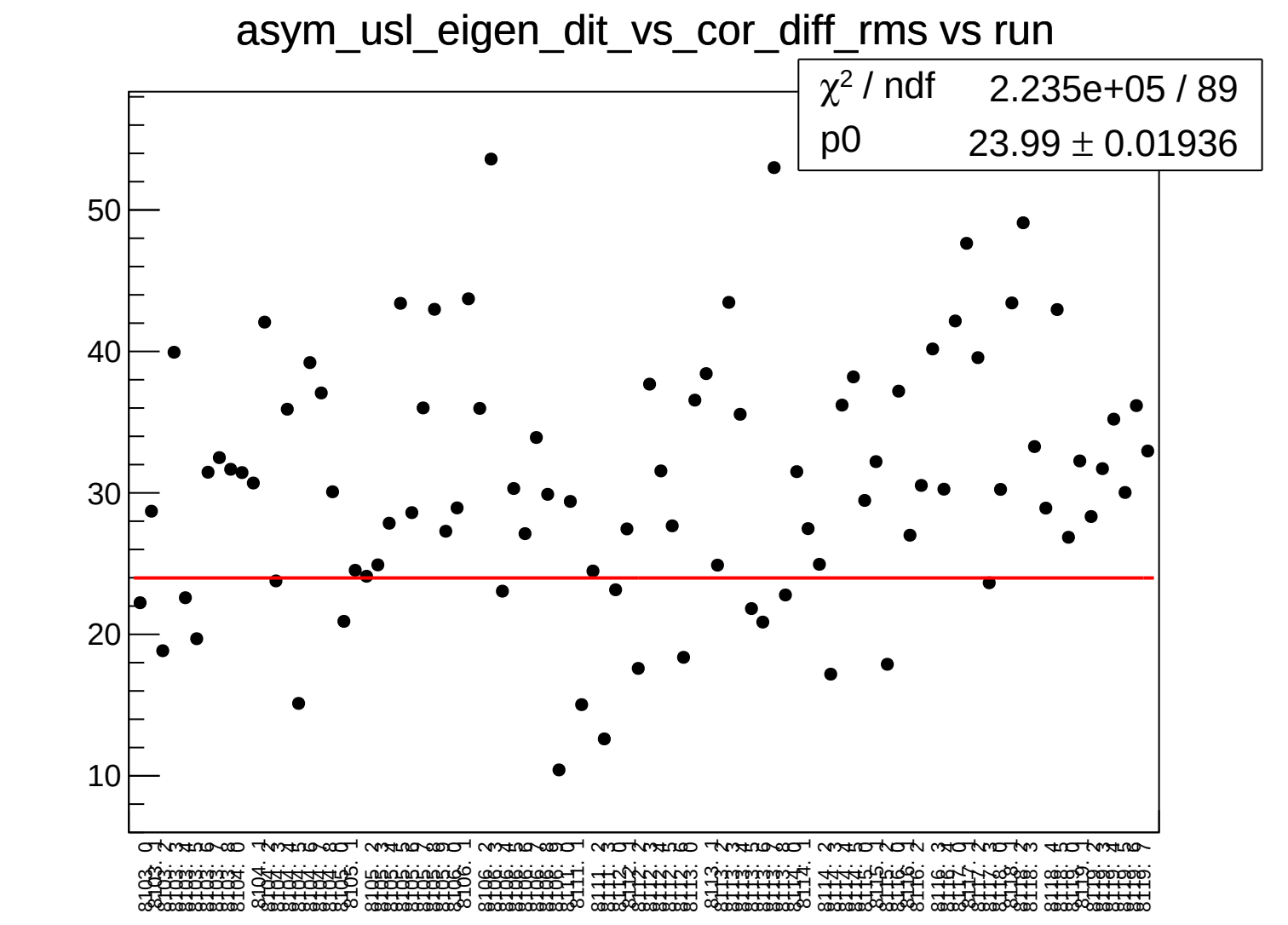

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.805e+04 / 89
p0 41.03 ± 0.03165
65
60
55
50
45
40
35
30
25

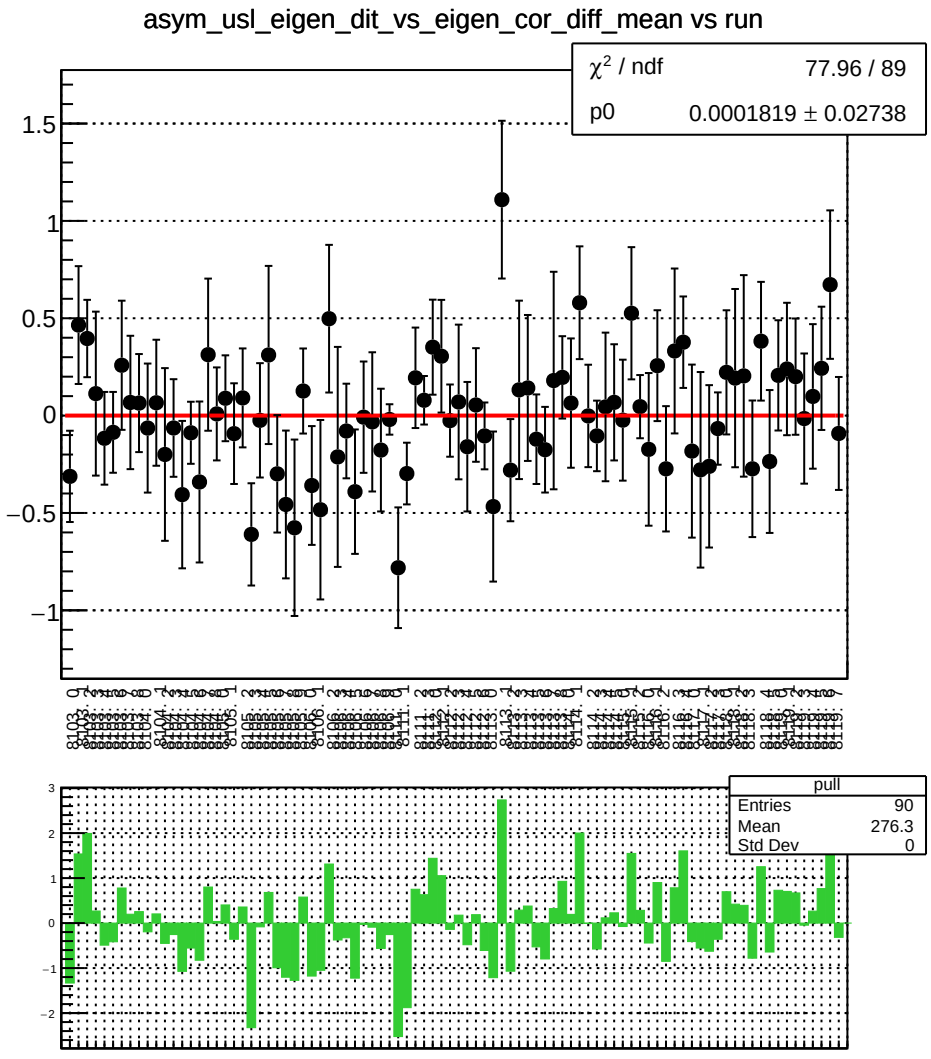

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.4 / 89
p0 2.438e−06 ± 2.106e−06
pull
Entries 90
Mean 2763
Std Dev 0
pull1D
Entries 90
Mean 0.002757
Std Dev 1.056

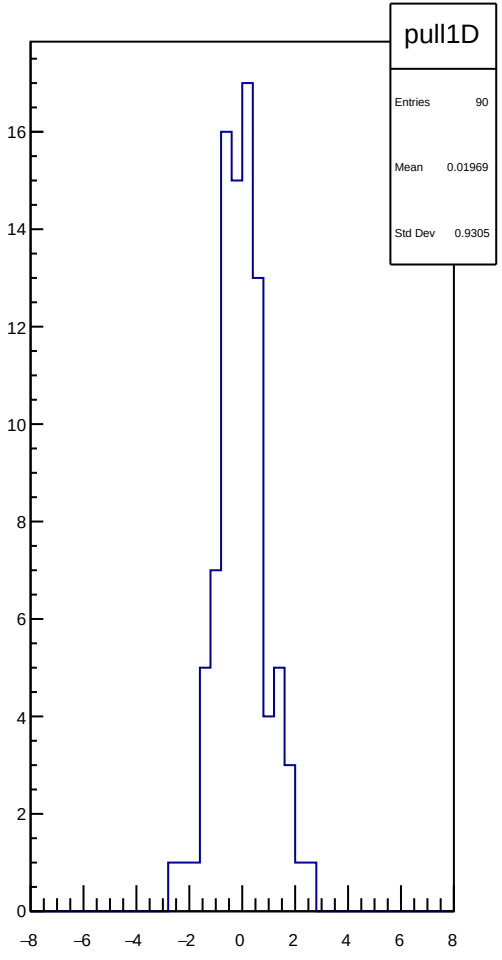

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2521 / 89
p0 0.001973 ± 1.489e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

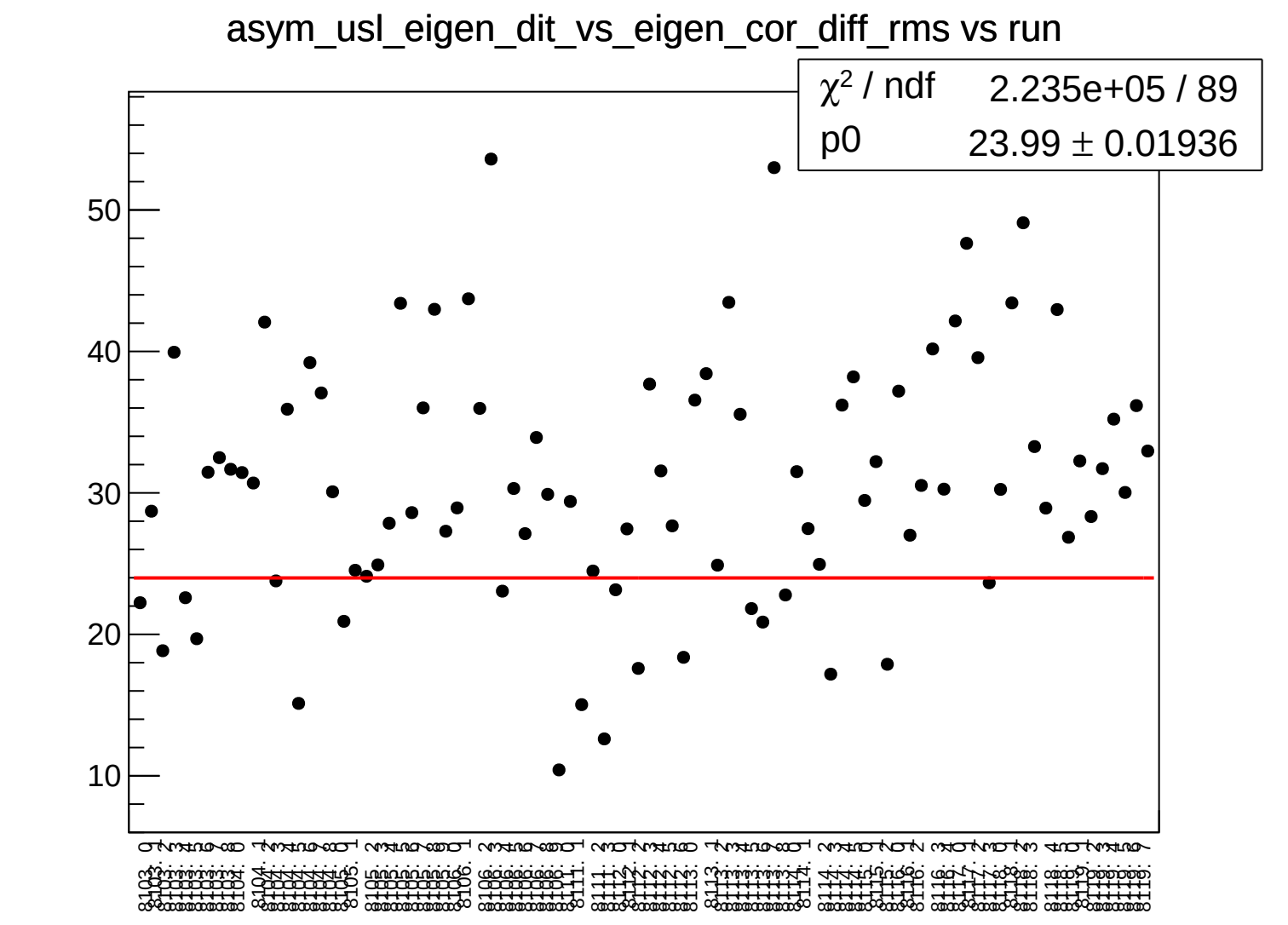

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.96 / 89
p0 0.0001819 ± 0.02738
pull
Entries 90
Mean 276.3
Std Dev 0

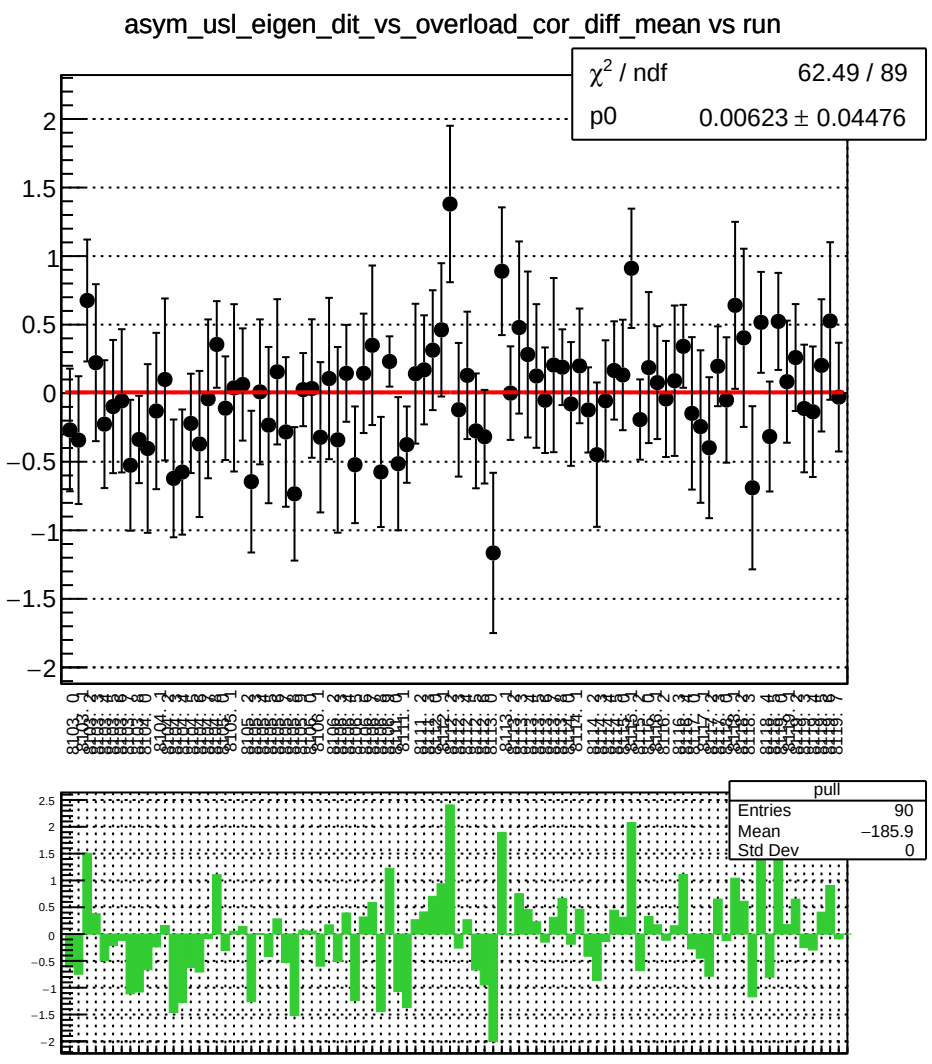

pull1D
Entries 90
Mean 0.01969
Std Dev 0.9305

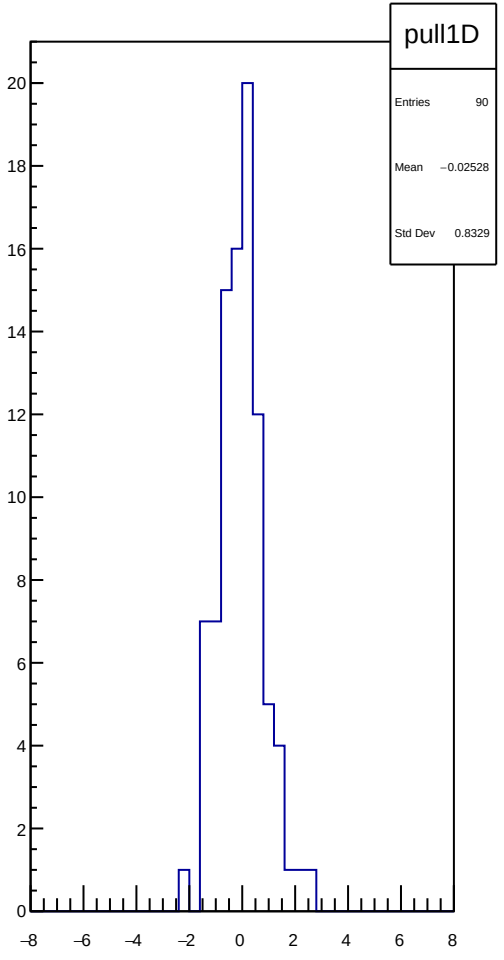

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.235e+05 / 89
p0 23.99 ± 0.01936
50
40
30
20
10

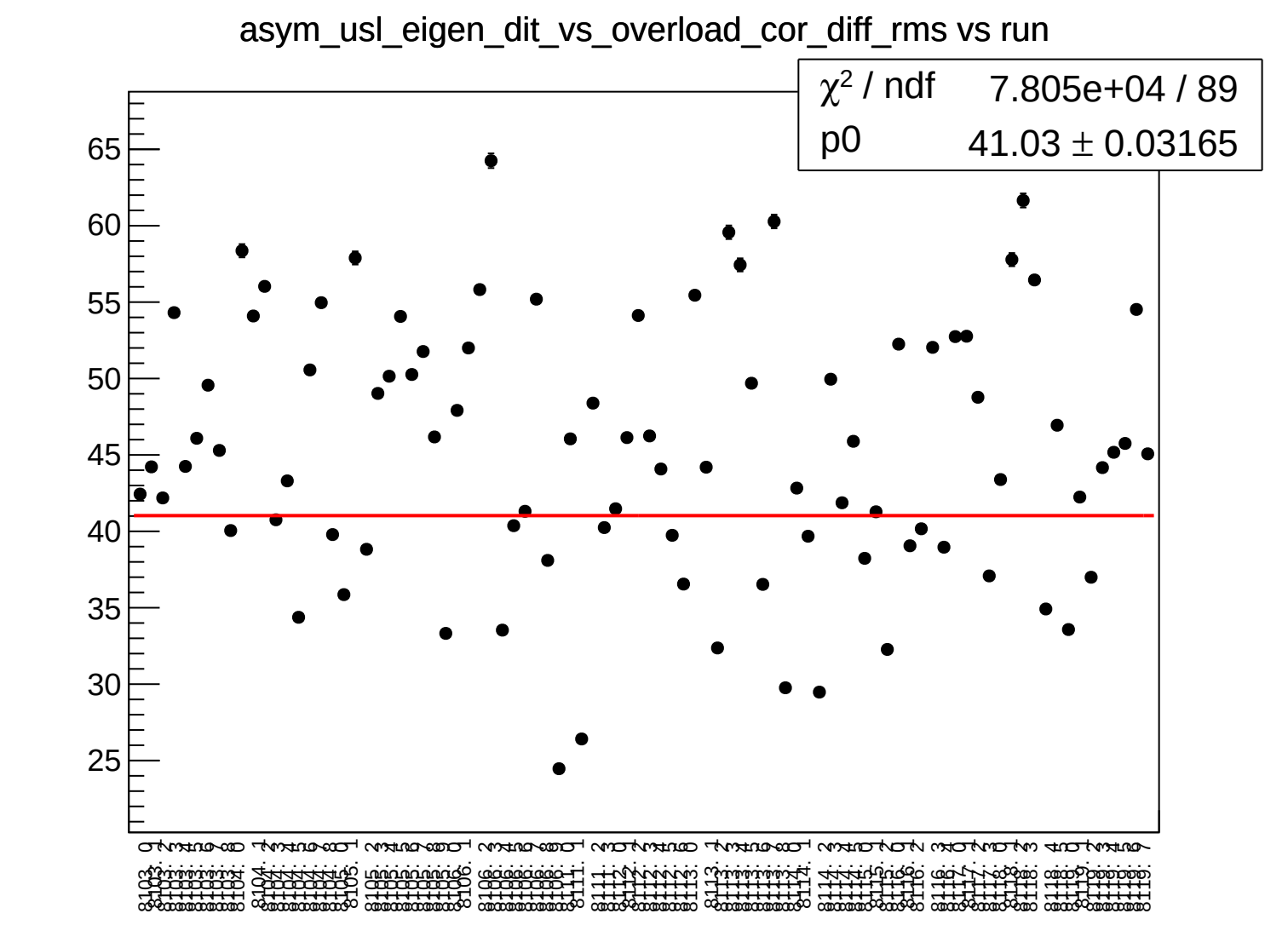

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.96 / 89
p0 0.0001819 ± 0.02738
pull
Entries 90
Mean 276.3
Std Dev 0

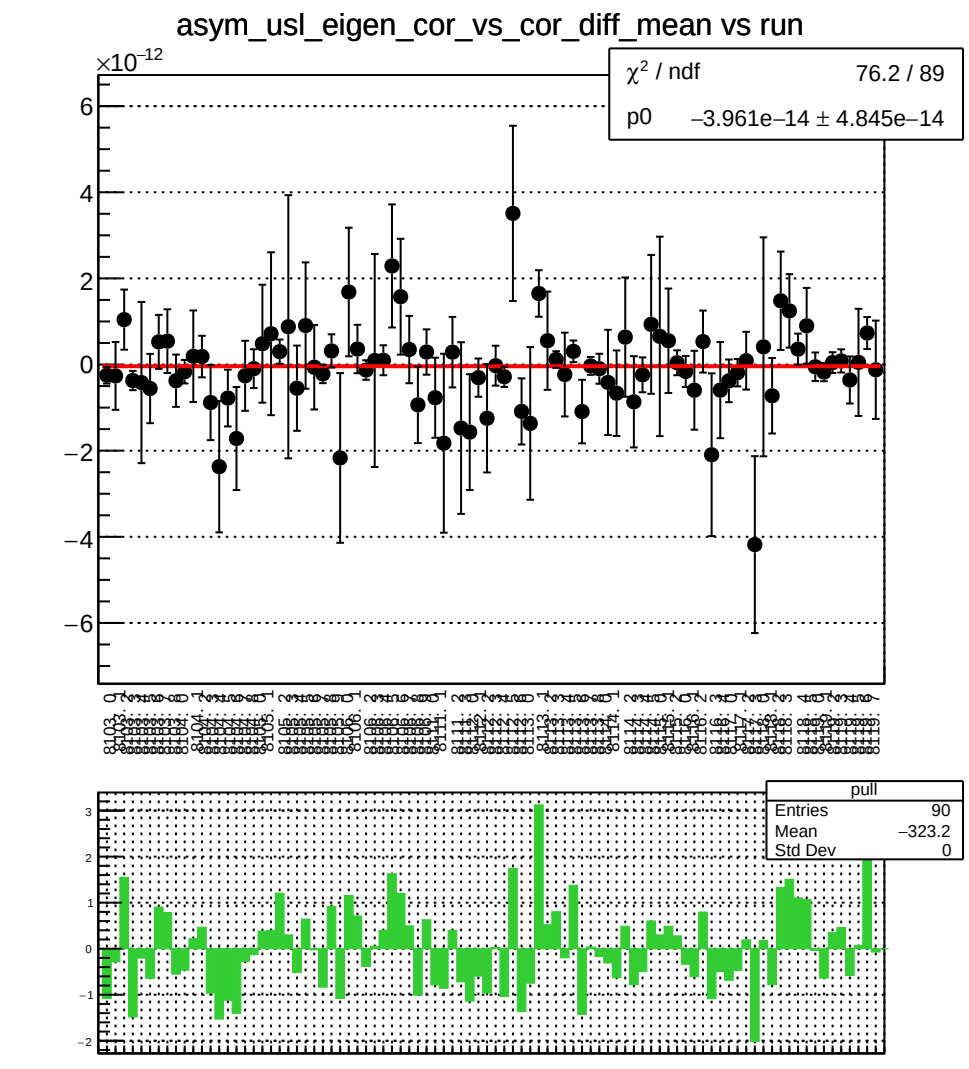

pull1D
Entries 90
Mean 0.01969
Std Dev 0.9305

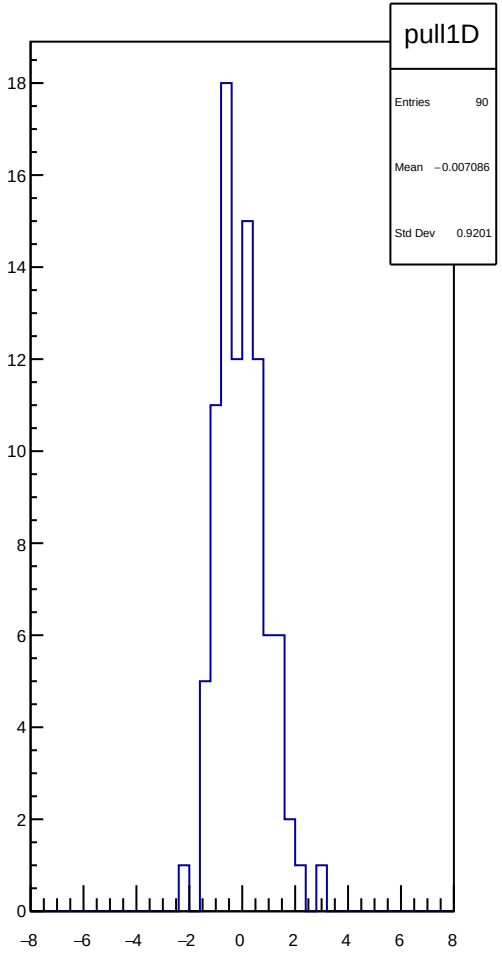

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.235e+05 / 89
p0 23.99 ± 0.01936
50
40
30
20
10

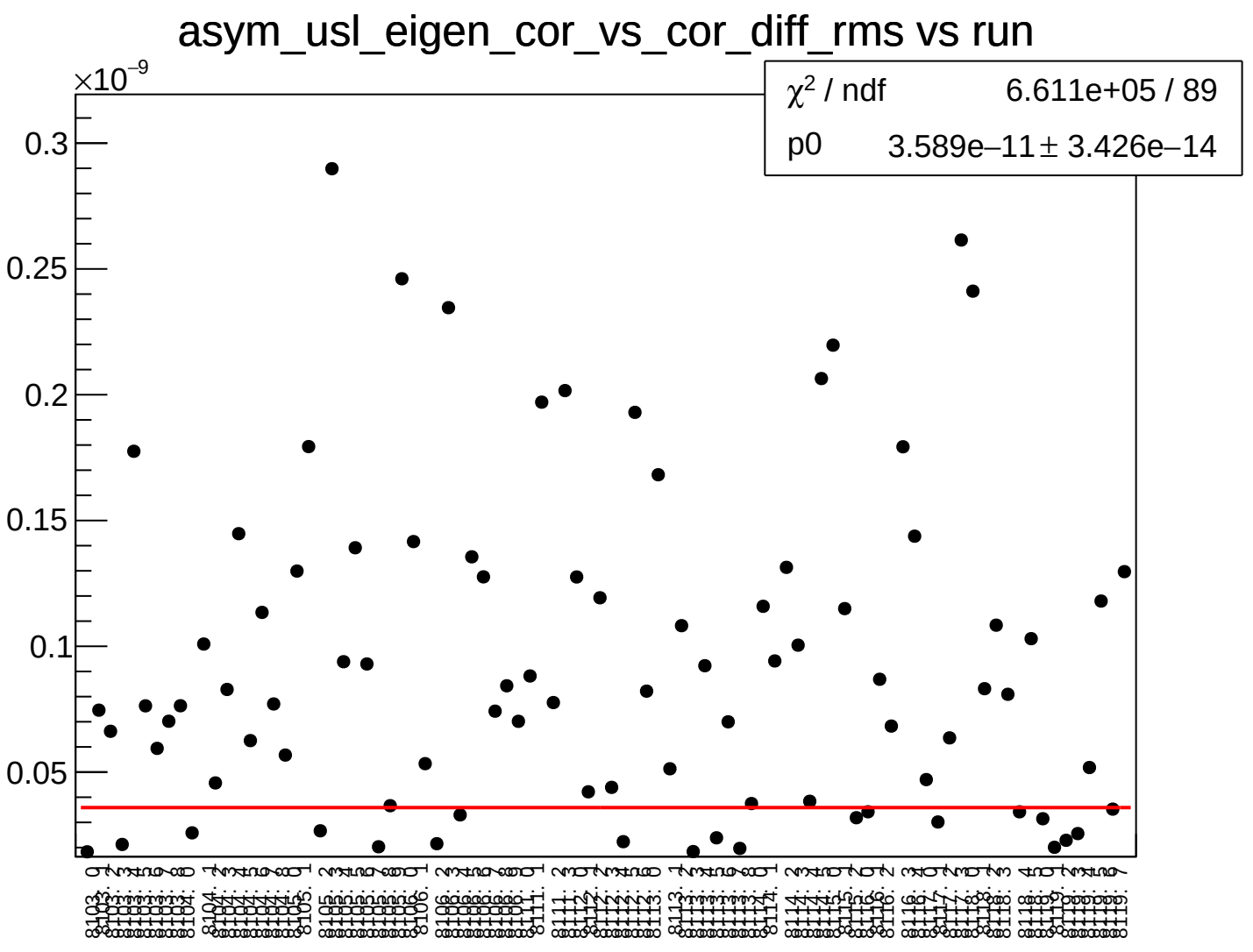

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 62.49 / 89
p0 0.00623 ± 0.04476
pull
Entries 90
Mean −185.9
Std Dev 0

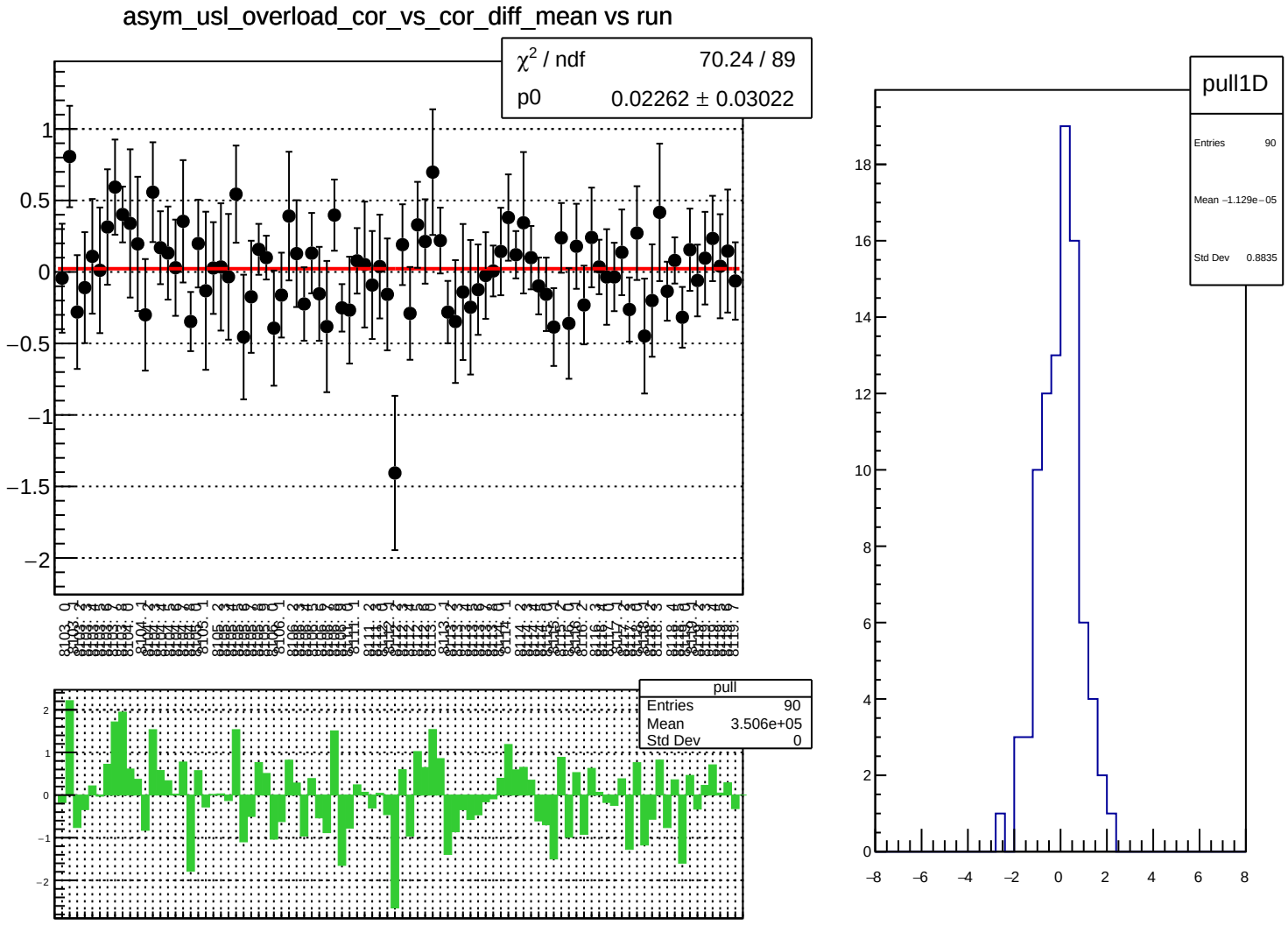

pull1D
Entries 90
Mean −0.02528
Std Dev 0.8329

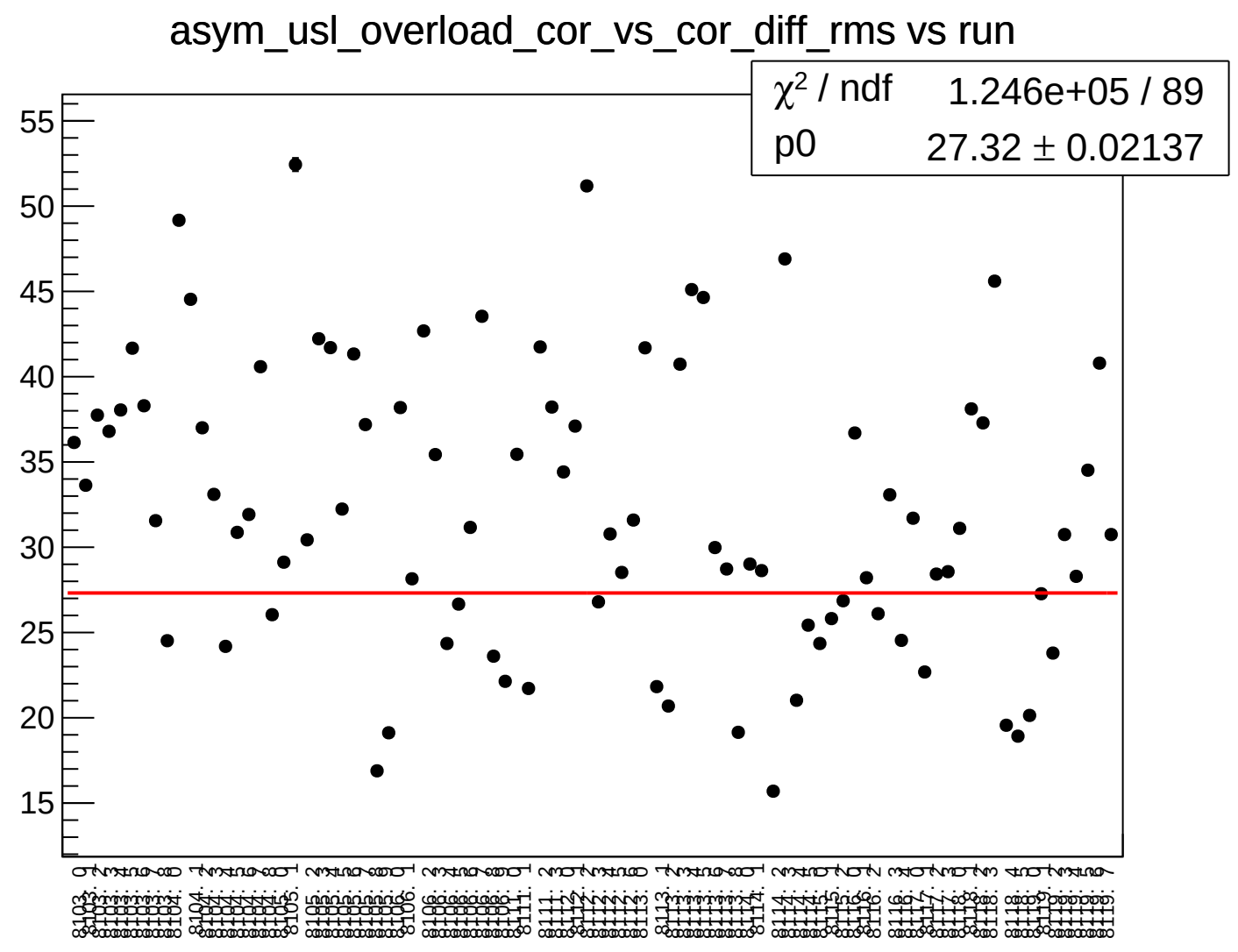

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.805e+04 / 89
p0 41.03 ± 0.03165
65
60
55
50
45
40
35
30
25

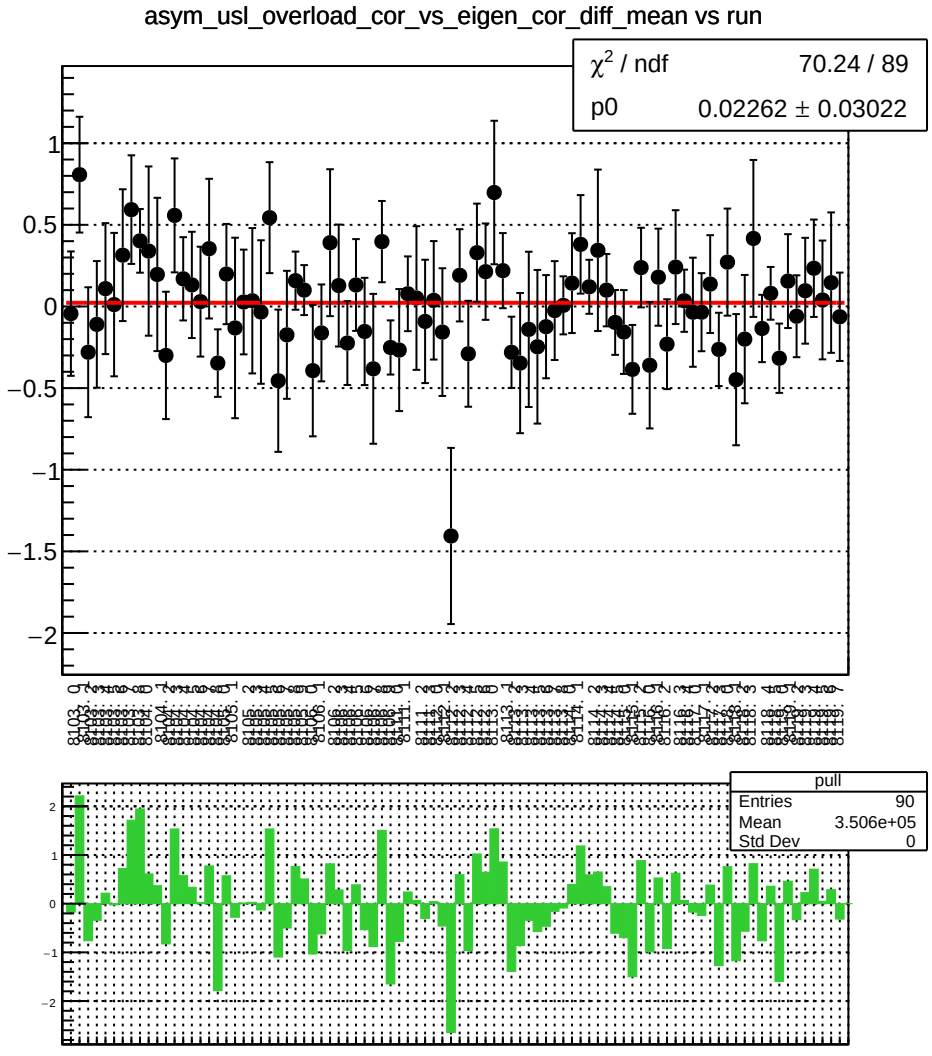

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 76.2 / 89
p0 −3.961e−14 ± 4.845e−14
pull
Entries 90
Mean −323.2
Std Dev 0

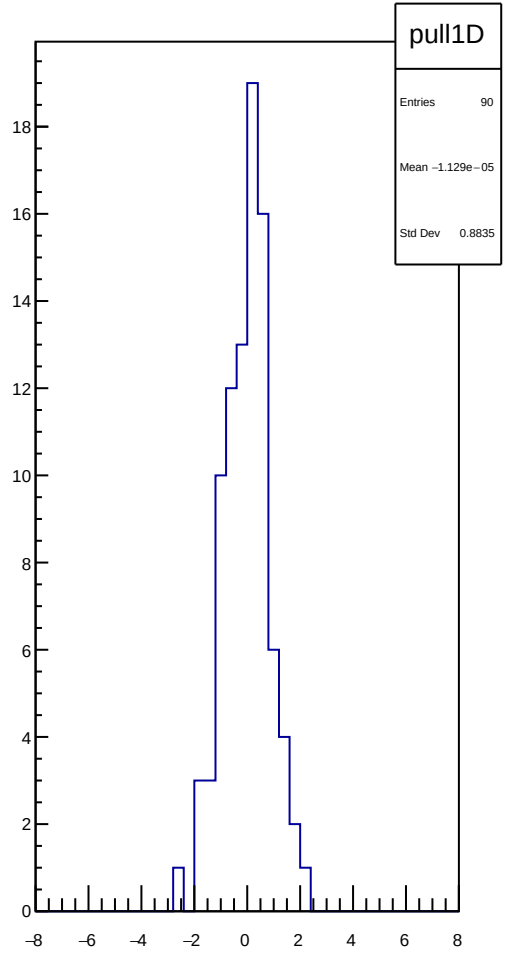

pull1D
Entries 90
Mean −0.007086
Std Dev 0.9201

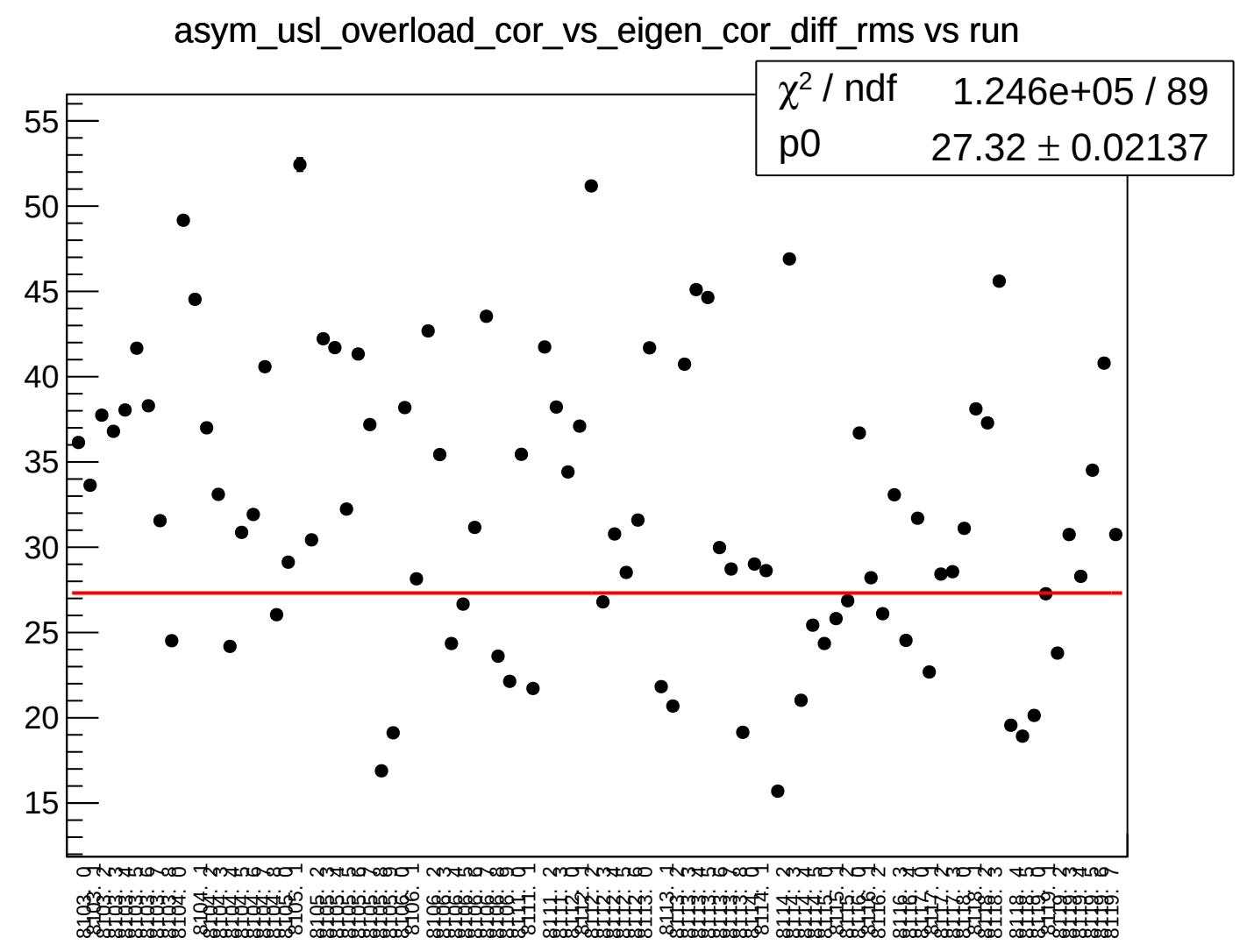

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.611e+05 / 89
p0 3.589e−11 ± 3.426e−14
0.3
0.25
0.2
0.15
0.1
0.05

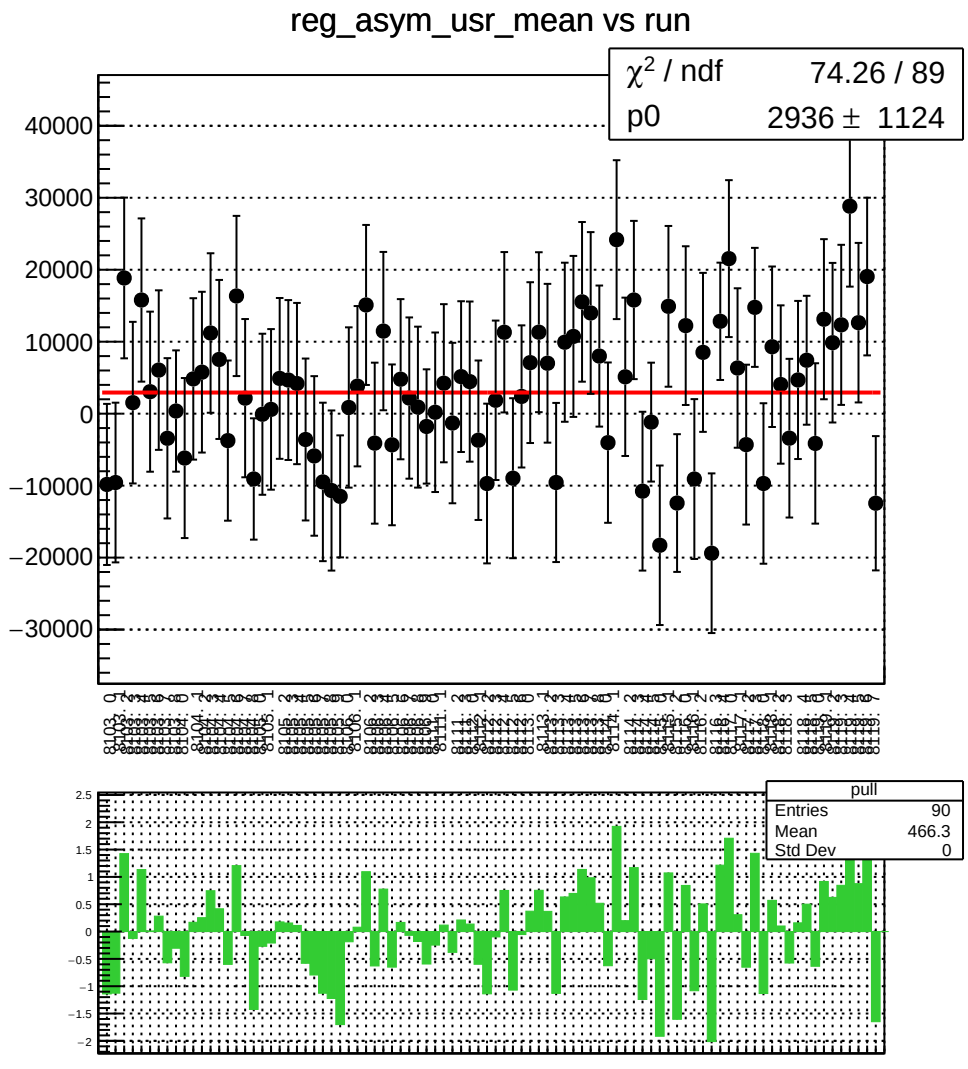

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 70.24 / 89
p0 0.02262 ± 0.03022
pull
Entries 90
Mean 3.506e+05
Std Dev 0
pull1D
Entries 90
Mean −1.129e−05
Std Dev 0.8835

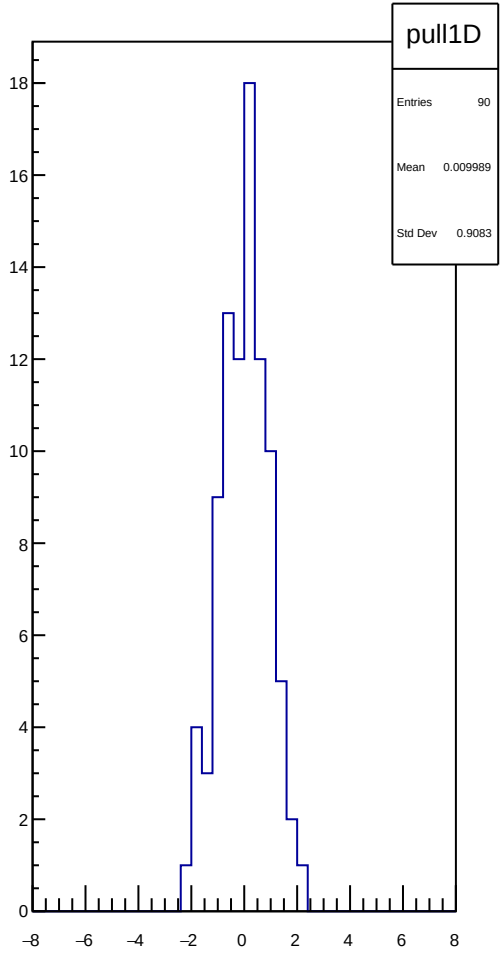

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.246e+05 / 89
p0 27.32 ± 0.02137
55
50
45
40
35
30
25
20
15

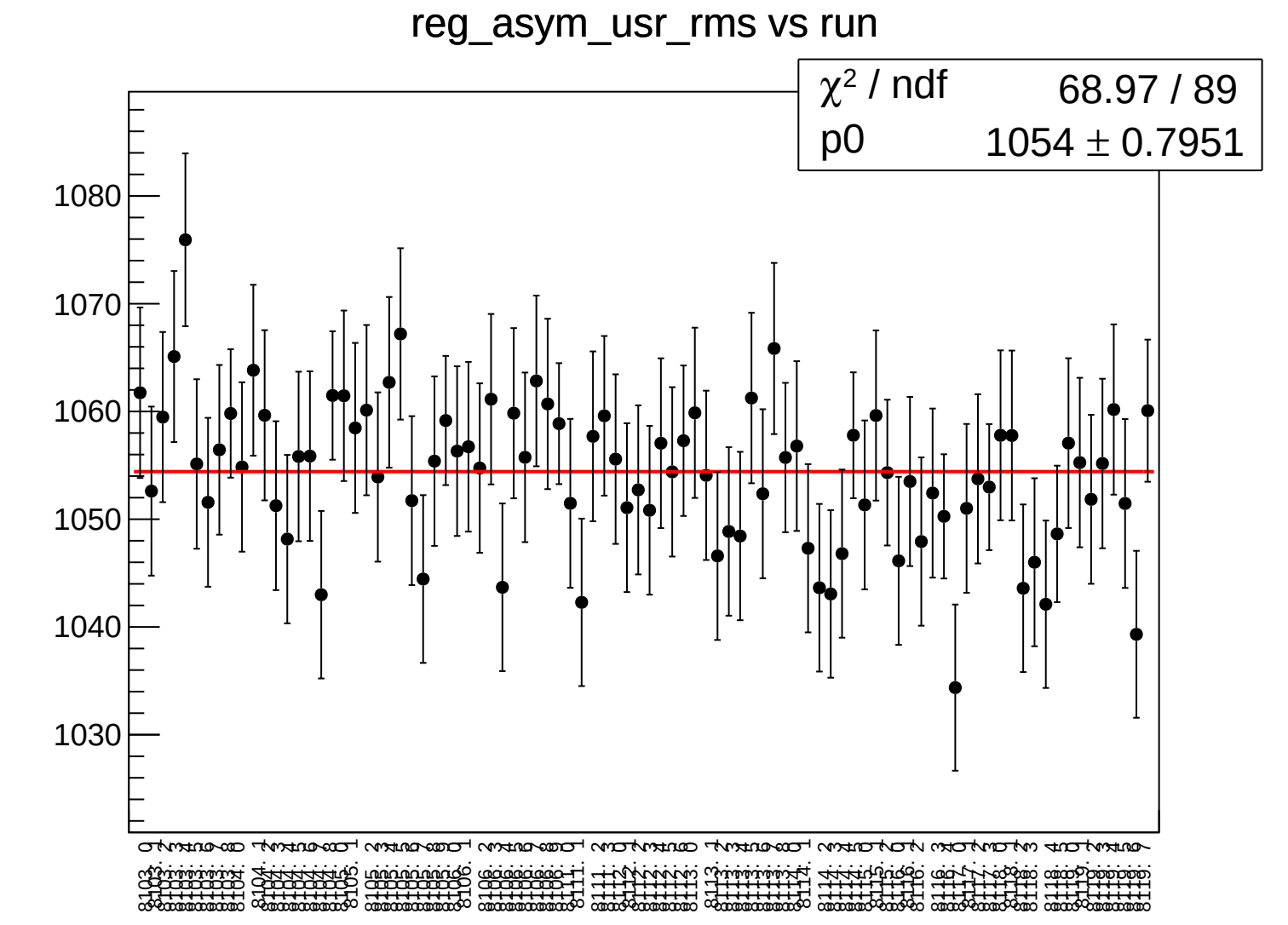

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.24 / 89
p0 0.02262 ± 0.03022
pull
Entries 90
Mean 3.506e+05
Std Dev 0

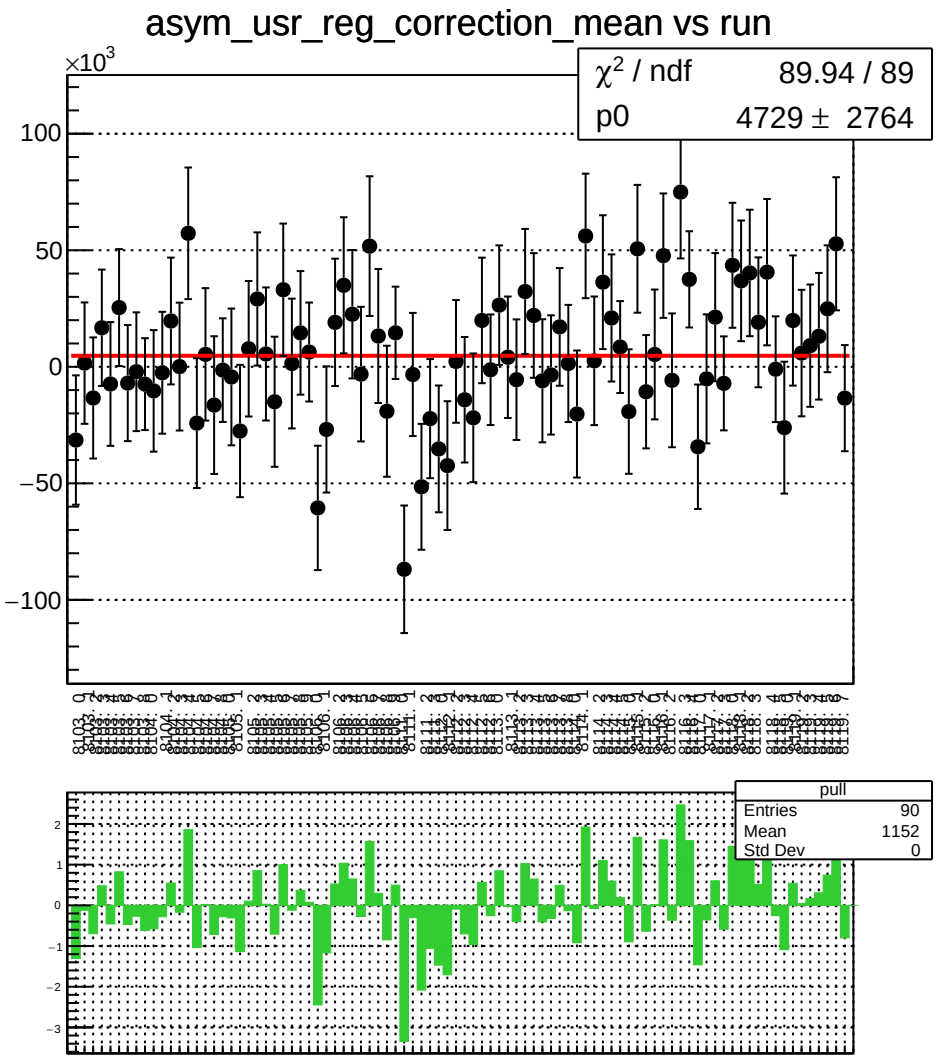

pull1D
Entries 90
Mean −1.129e−05
Std Dev 0.8835

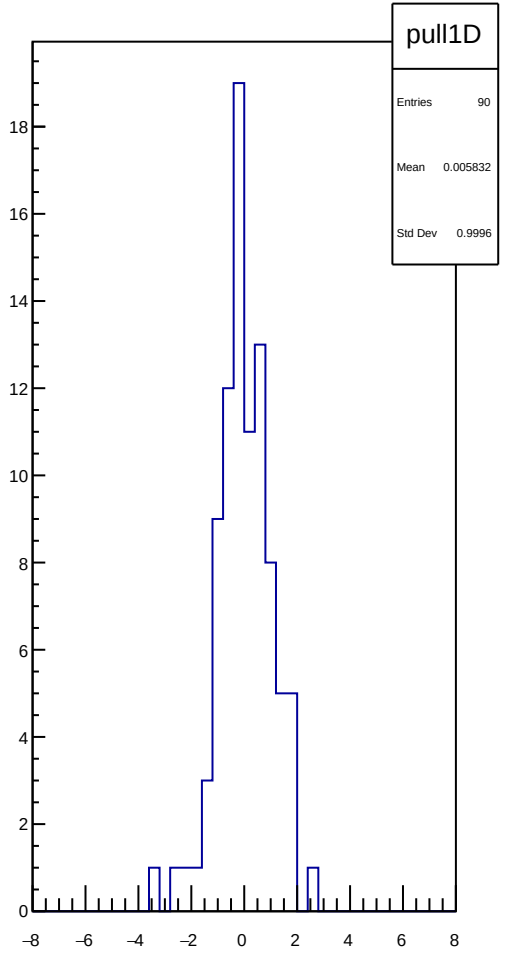

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.246e+05 / 89
p0 27.32 ± 0.02137
55
50
45
40
35
30
25
20
15

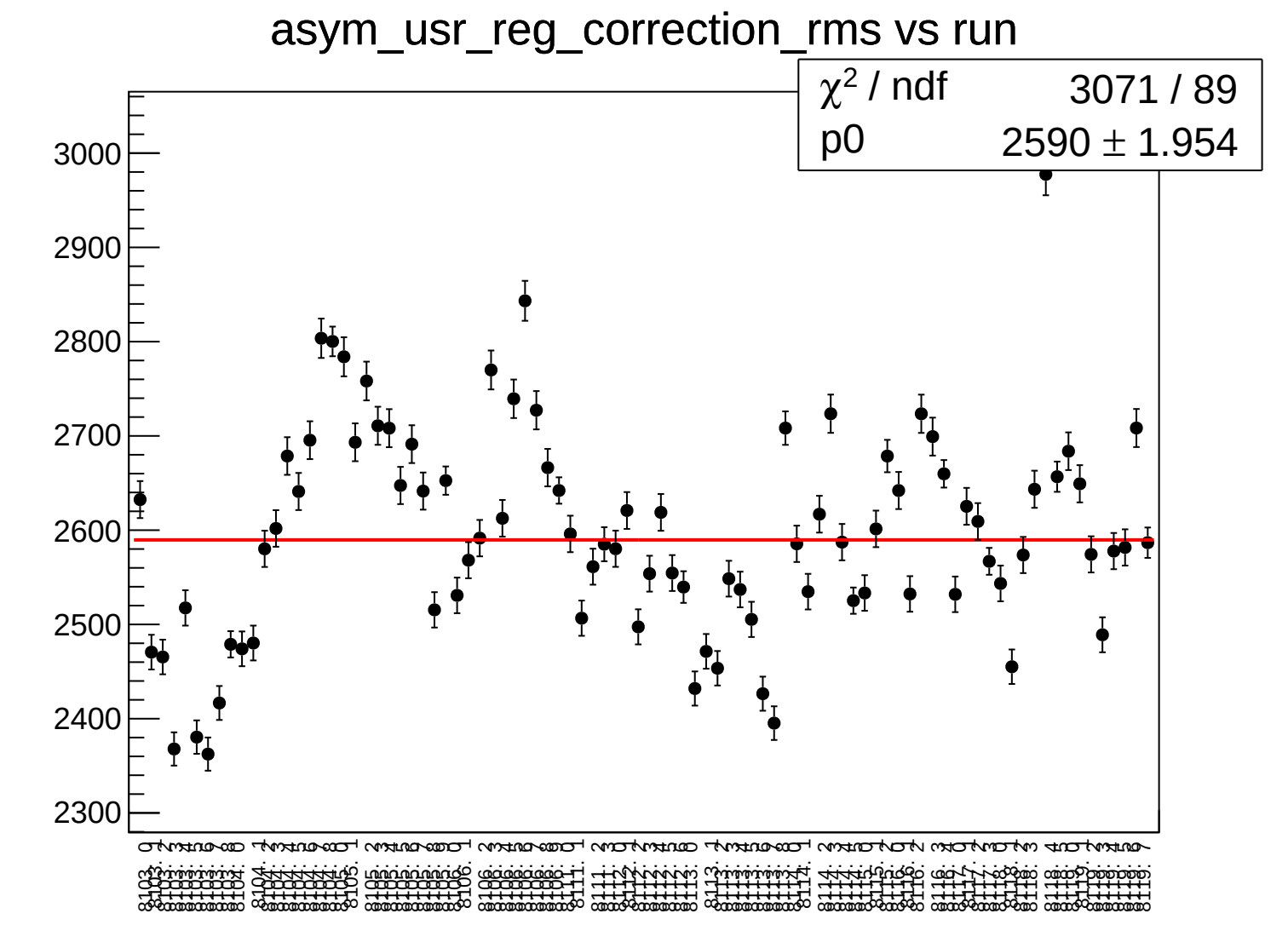

reg_asym_usr_mean vs run
χ² / ndf 74.26 / 89
p0 2936 ± 1124
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 466.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

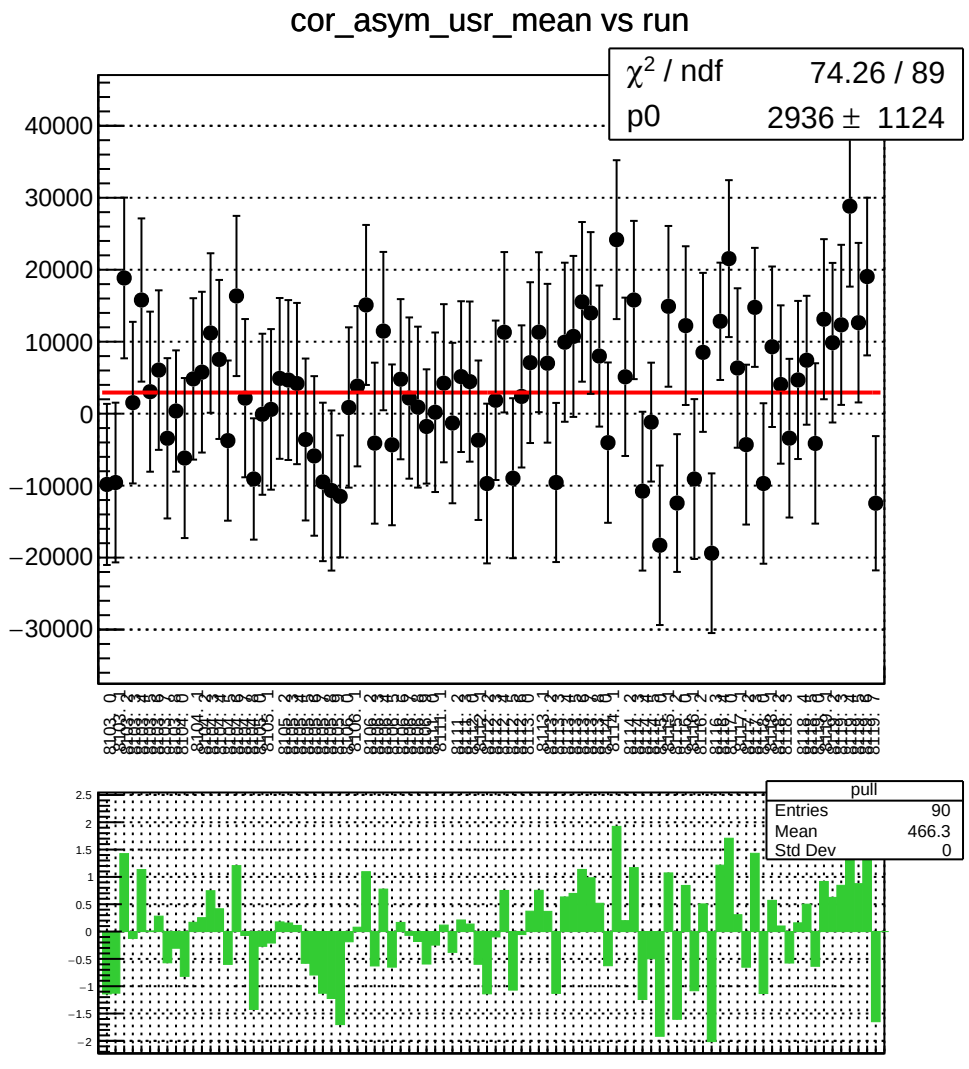

pull1D
Entries 90
Mean 0.009989
Std Dev 0.9083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

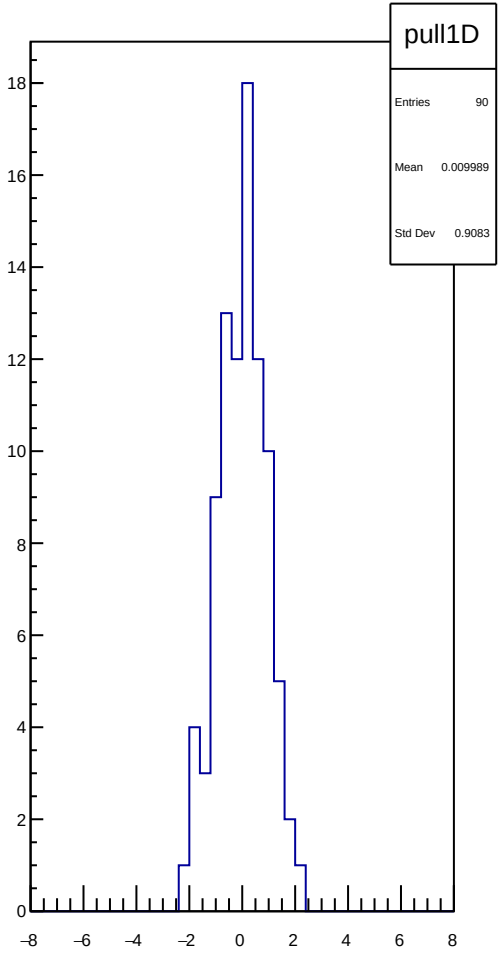

reg_asym_usr_rms vs run
χ² / ndf 68.97 / 89
p0 1054 ± 0.7951
1080
1070
1060
1050
1040
1030

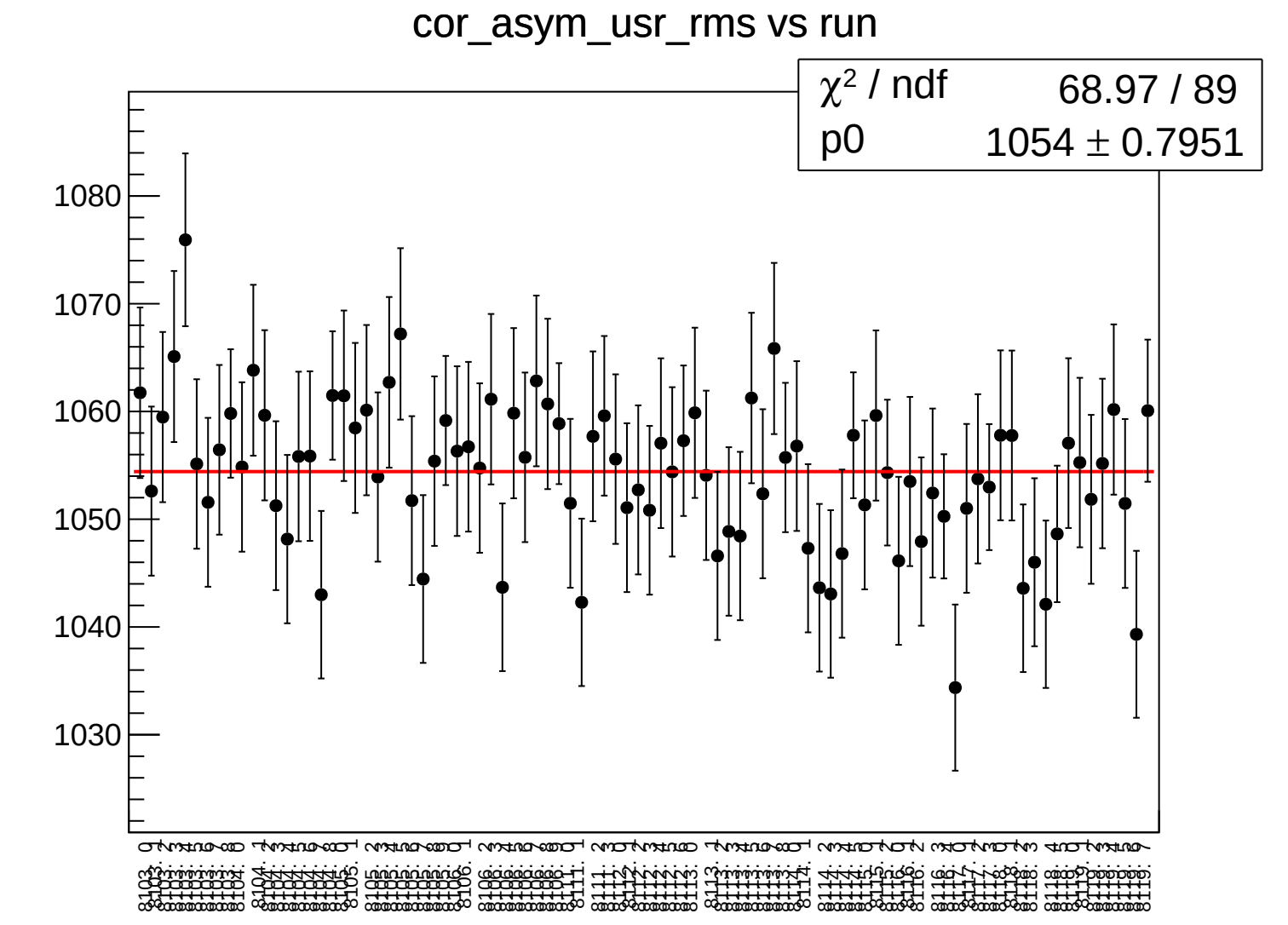

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 89.94 / 89
p0 4729 ± 2764
100
50
0
−50
−100
pull
Entries 90
Mean 1152
Std Dev 0
2
1
0
−1
−2
−3

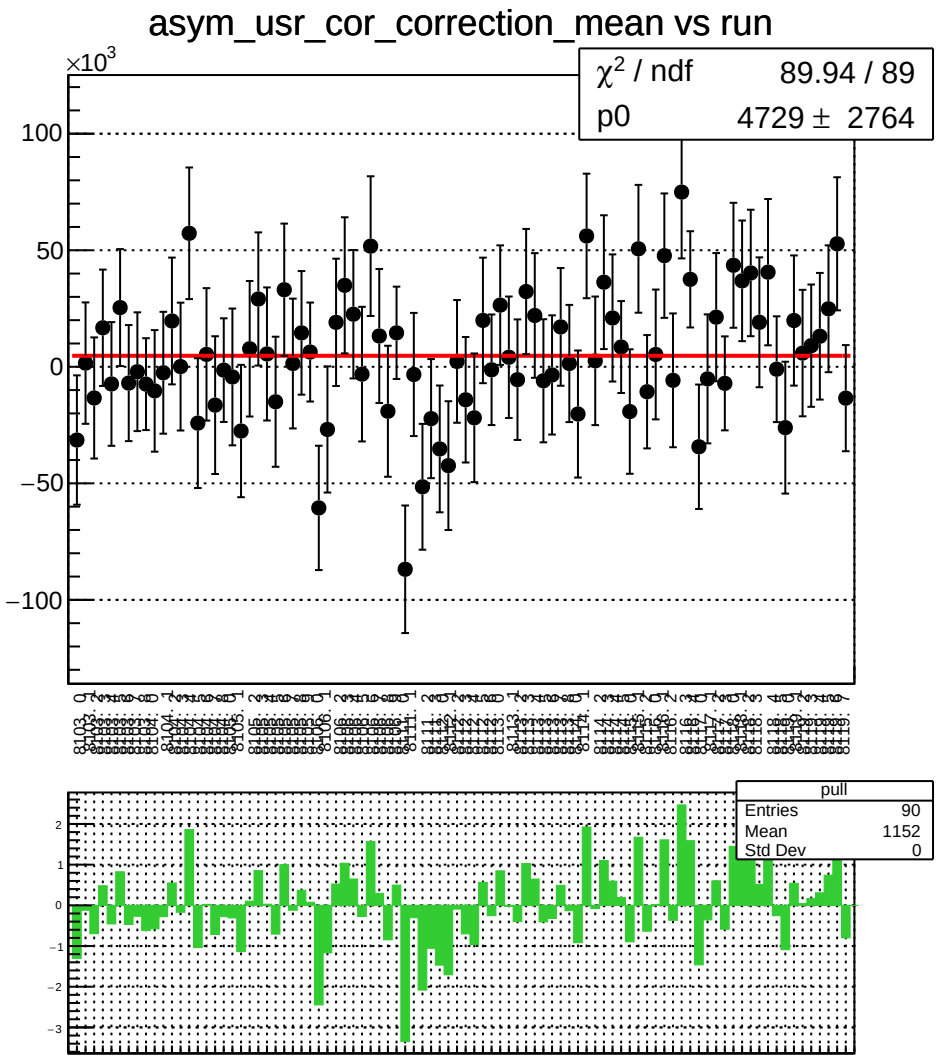

pull1D
Entries 90
Mean 0.005832
Std Dev 0.9996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

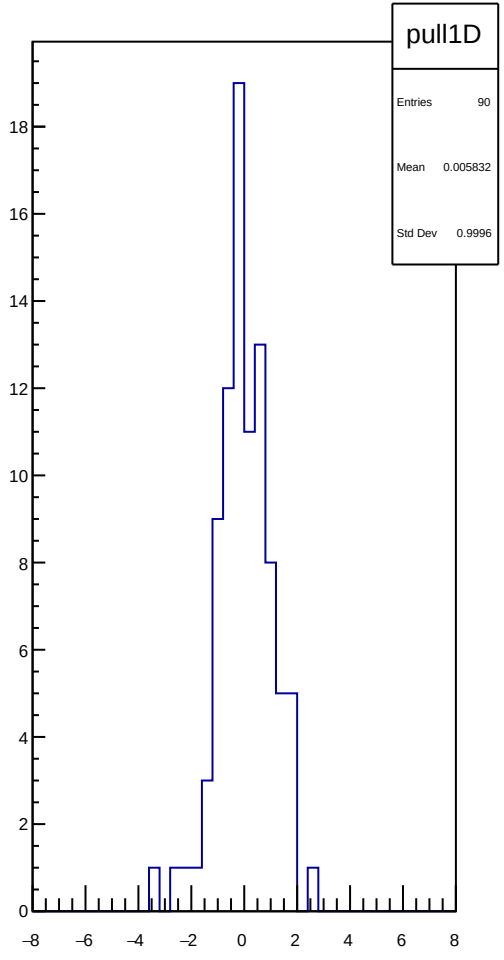

asym_usr_reg_correction_rms vs run
χ² / ndf 3071 / 89
p0 2590 ± 1.954
3000
2900
2800
2700
2600
2500
2400
2300

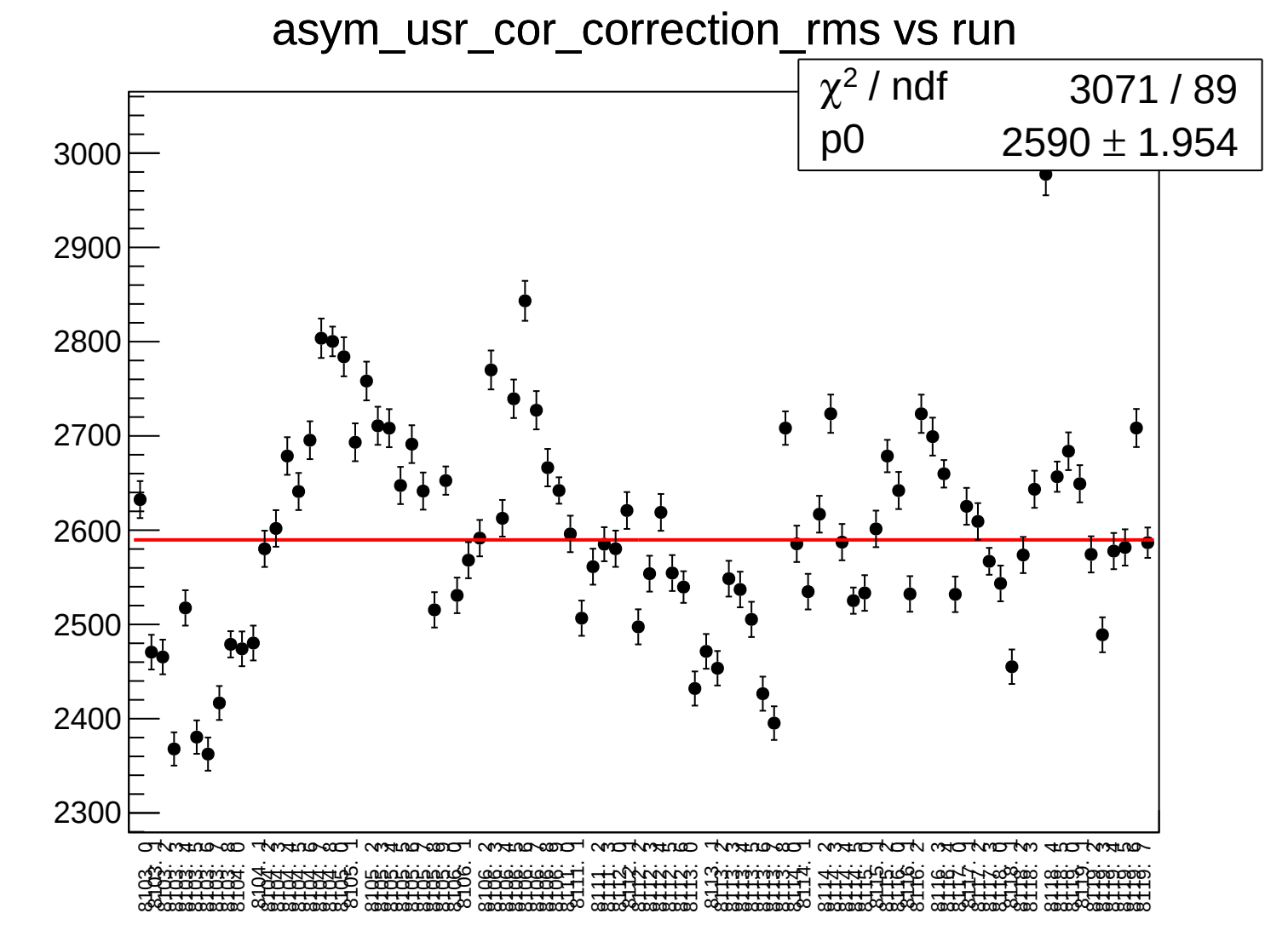

cor_asym_usr_mean vs run
χ² / ndf 74.26 / 89
p0 2936 ± 1124
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 466.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

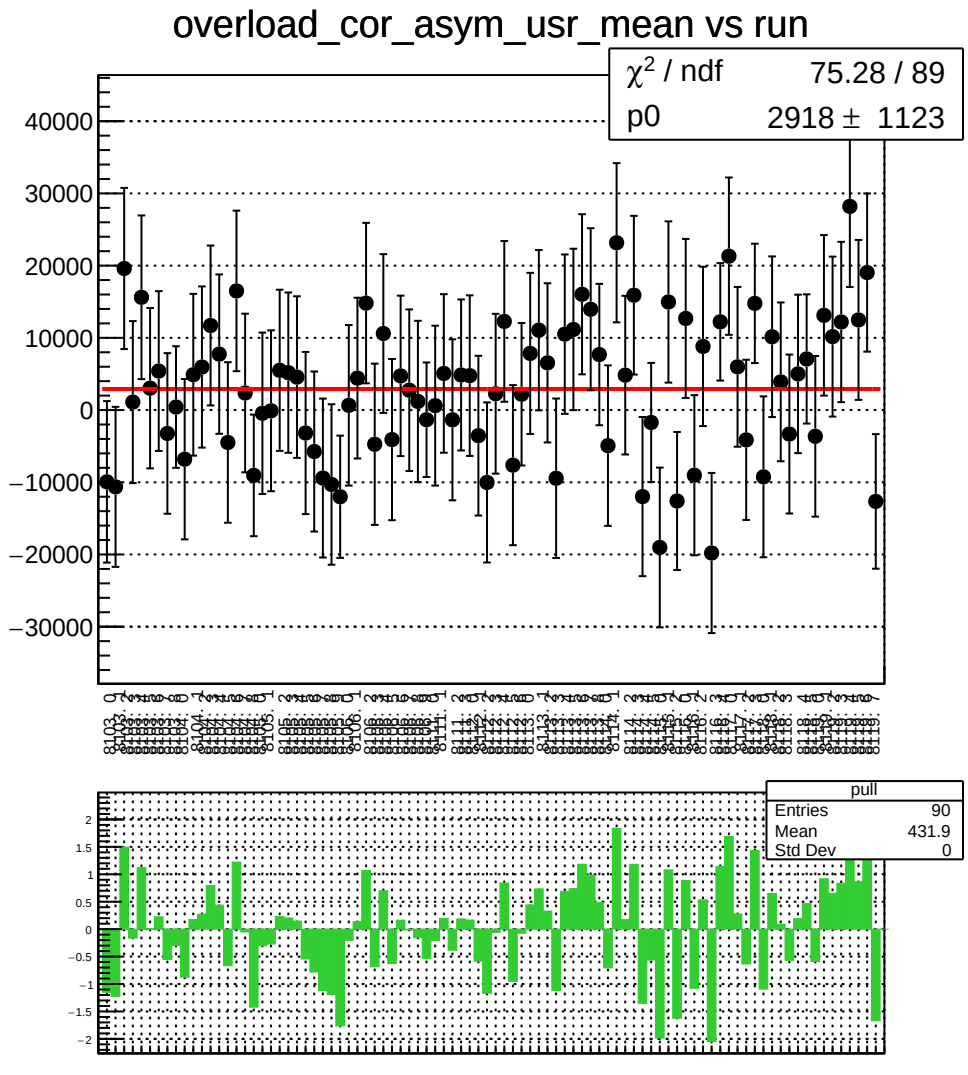

pull1D
Entries 90
Mean 0.009989
Std Dev 0.9083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

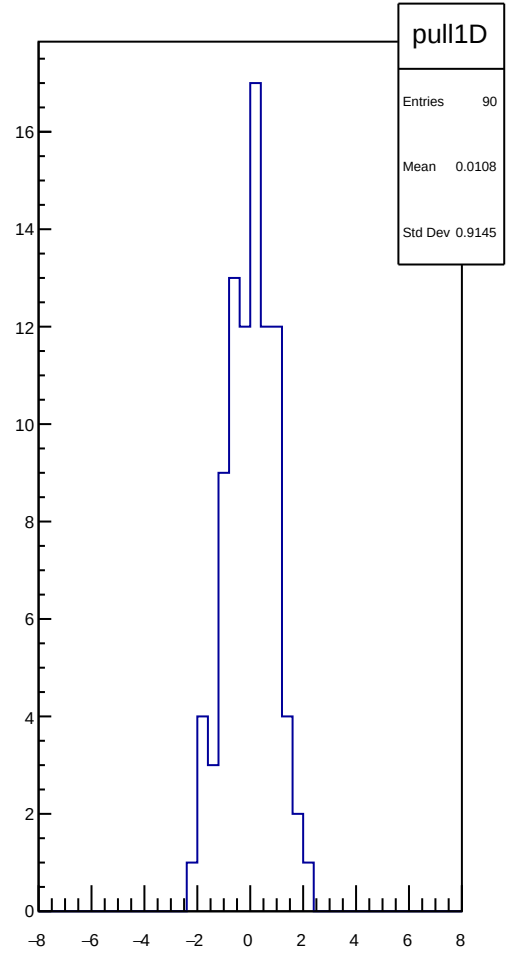

cor_asym_usr_rms vs run
χ² / ndf 68.97 / 89
p0 1054 ± 0.7951
1080
1070
1060
1050
1040
1030

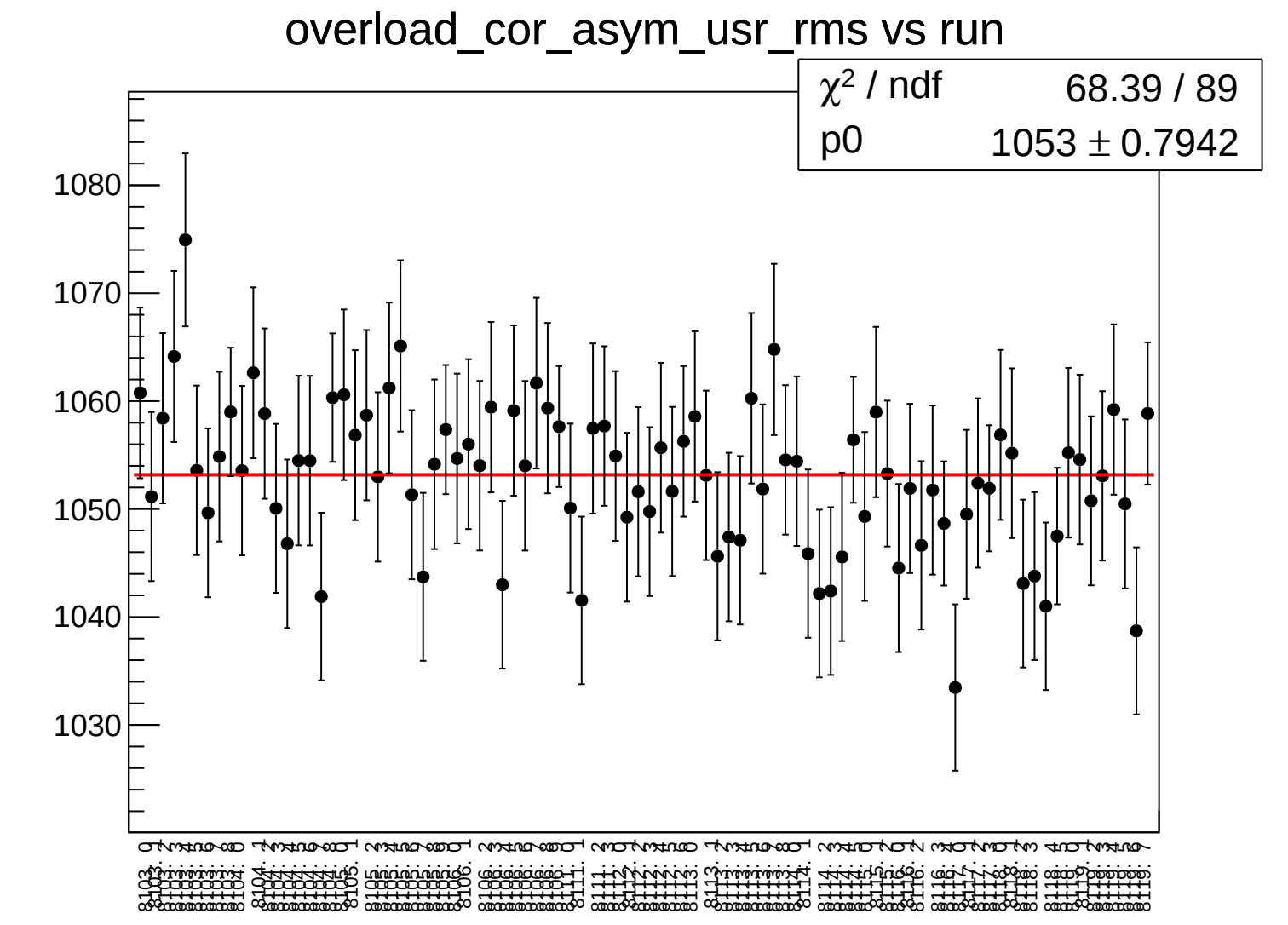

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 89.94 / 89
p0 4729 ± 2764
100
50
0
−50
−100
pull
Entries 90
Mean 1152
Std Dev 0
2
1
0
−1
−2
−3

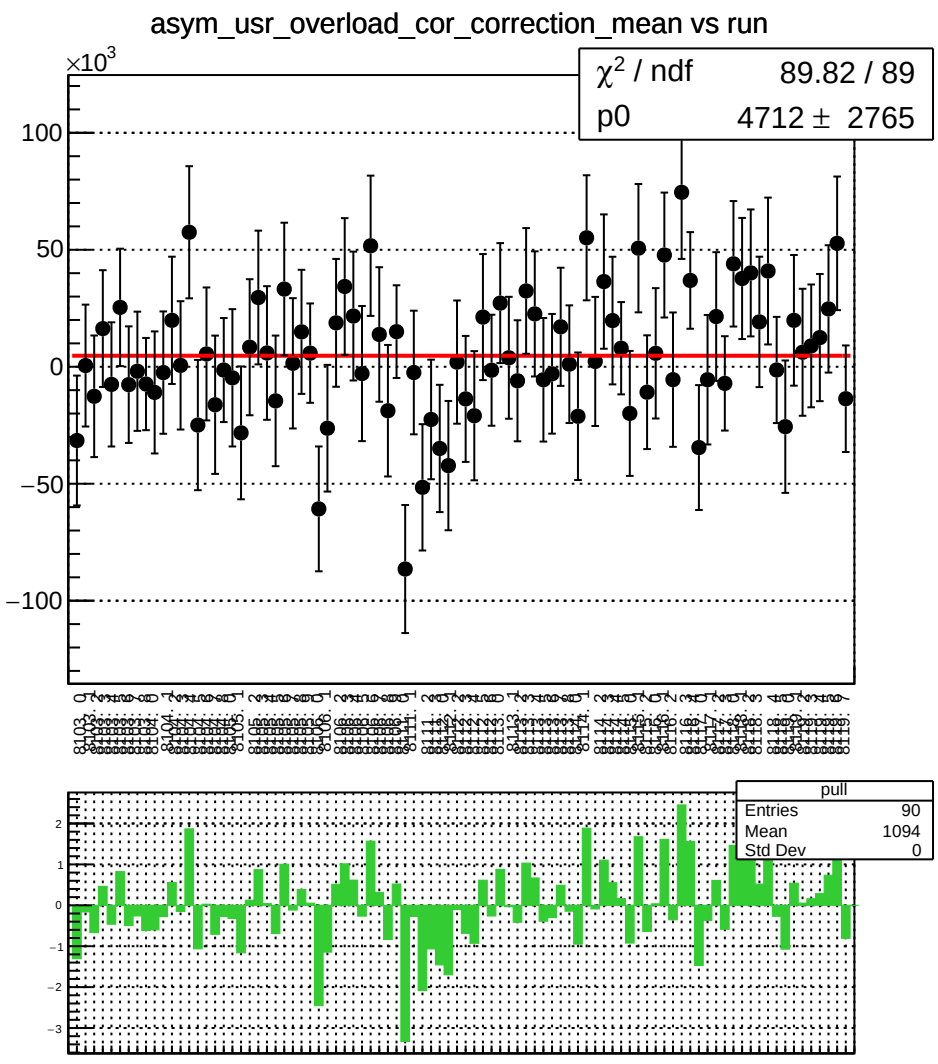

pull1D
Entries 90
Mean 0.005832
Std Dev 0.9996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

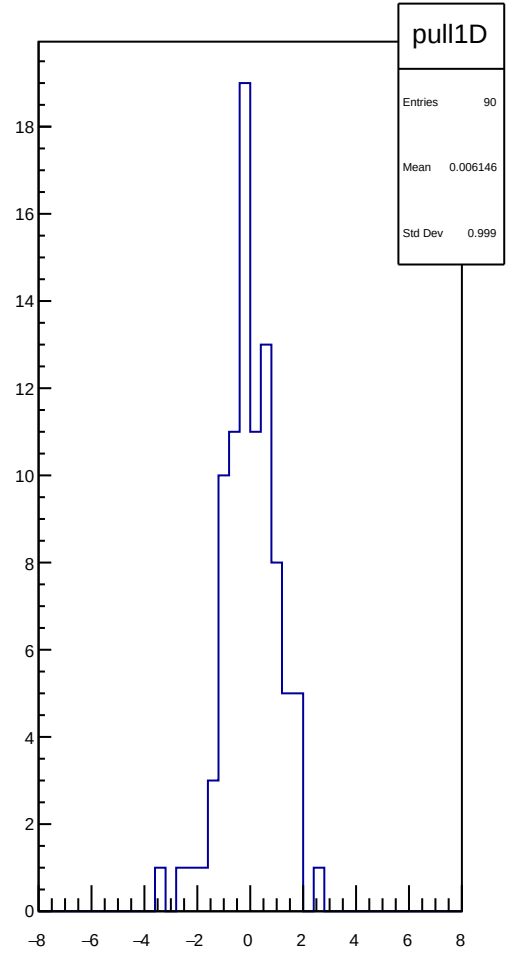

asym_usr_cor_correction_rms vs run
χ² / ndf 3071 / 89
p0 2590 ± 1.954
3000
2900
2800
2700
2600
2500
2400
2300

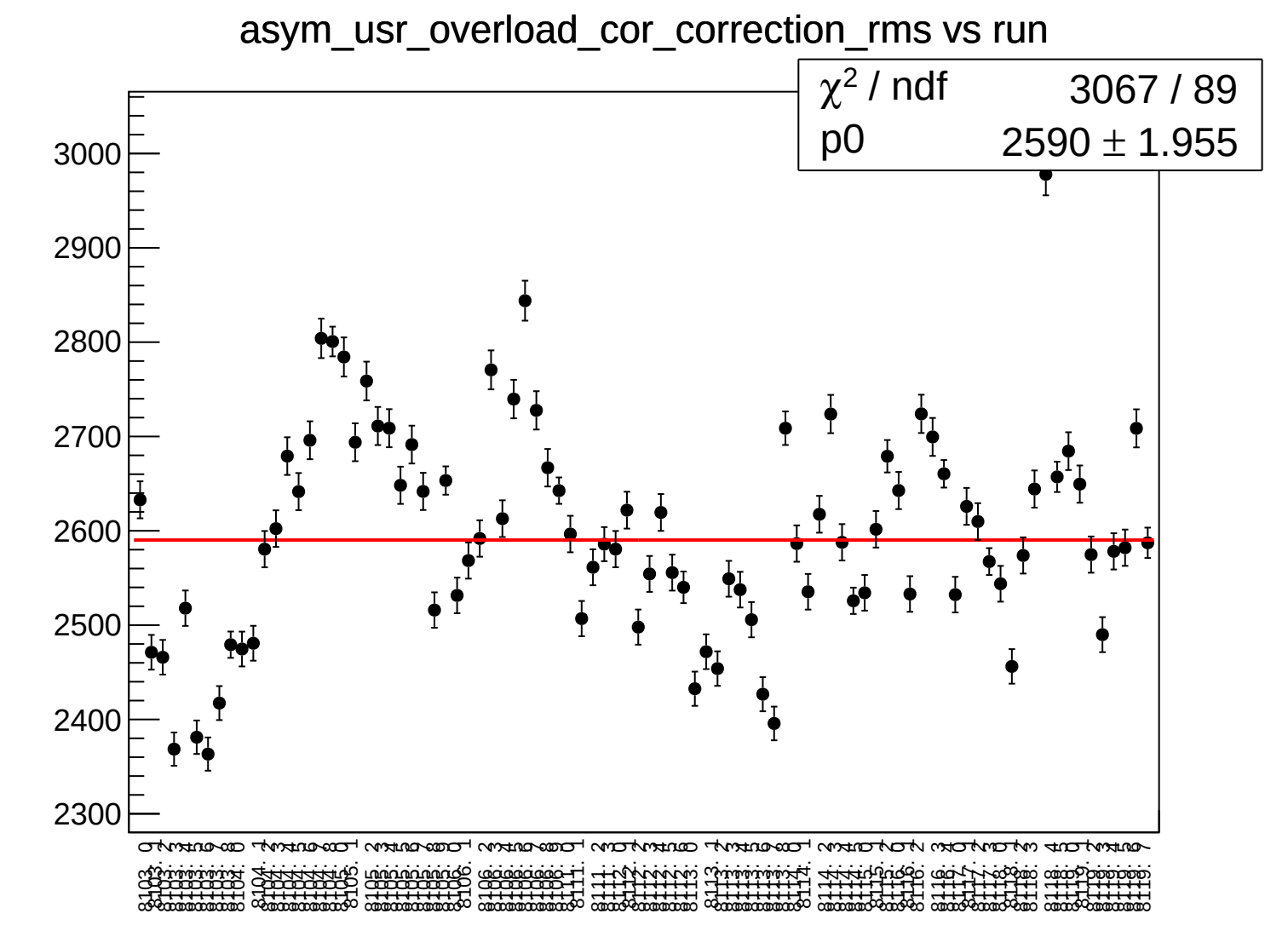

overload_cor_asym_usr_mean vs run
χ² / ndf 75.28 / 89
p0 2918 ± 1123
pull
Entries 90
Mean 431.9
Std Dev 0

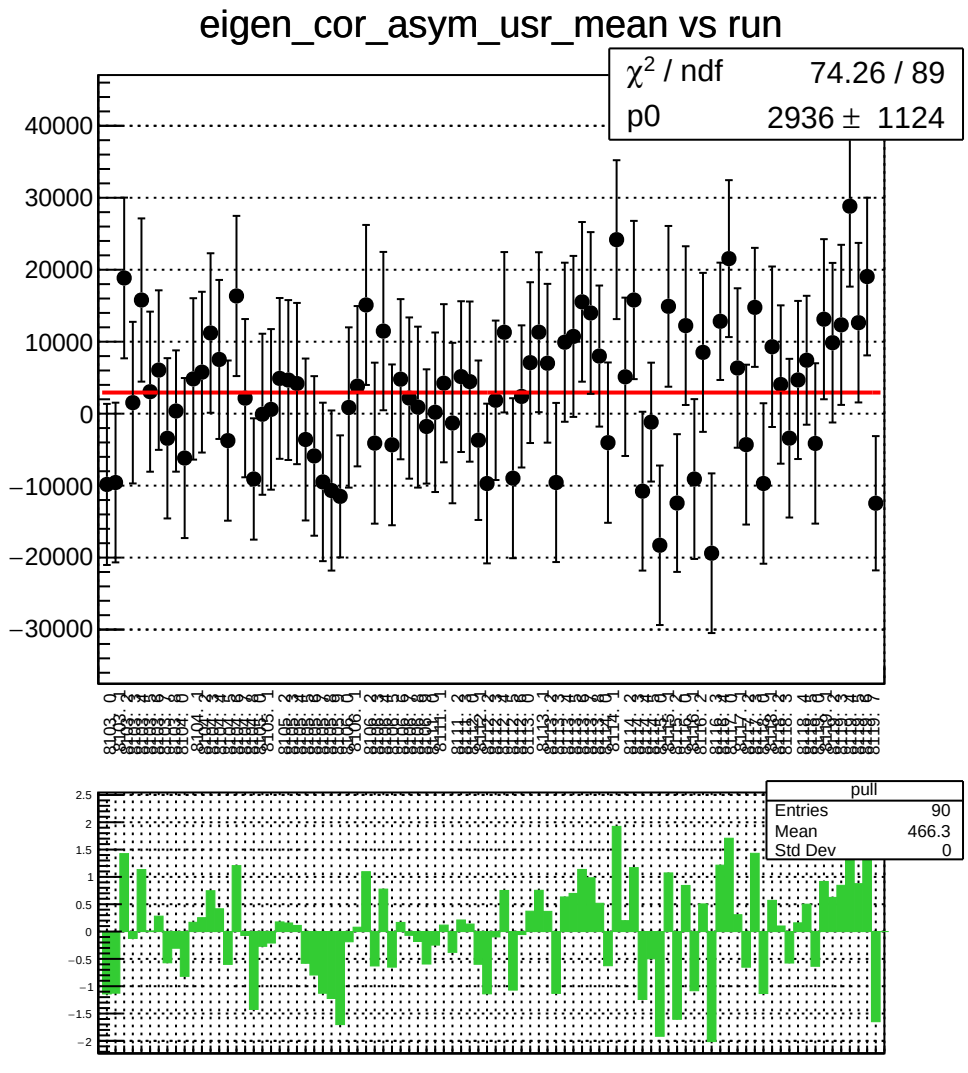

pull1D
Entries 90
Mean 0.0108
Std Dev 0.9145

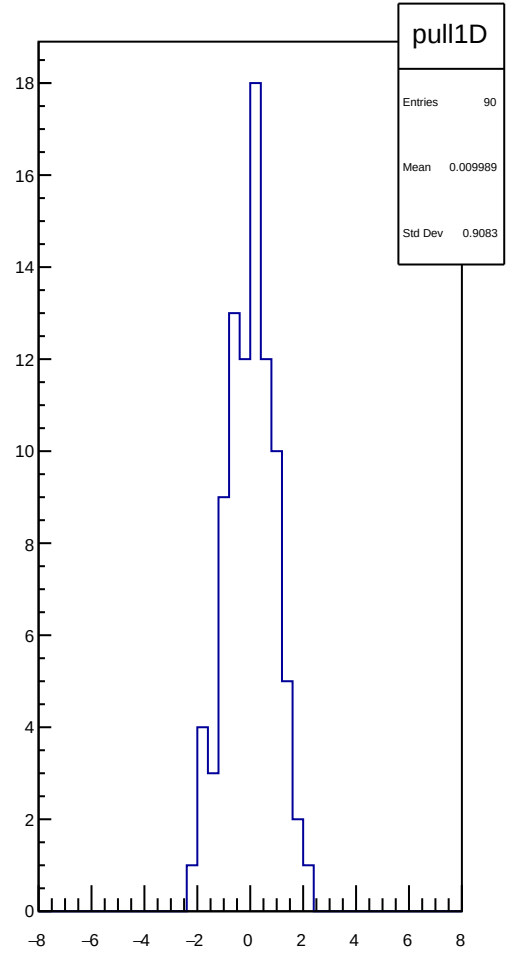

overload_cor_asym_usr_rms vs run
χ² / ndf 68.39 / 89
p0 1053 ± 0.7942
1080
1070
1060
1050
1040
1030

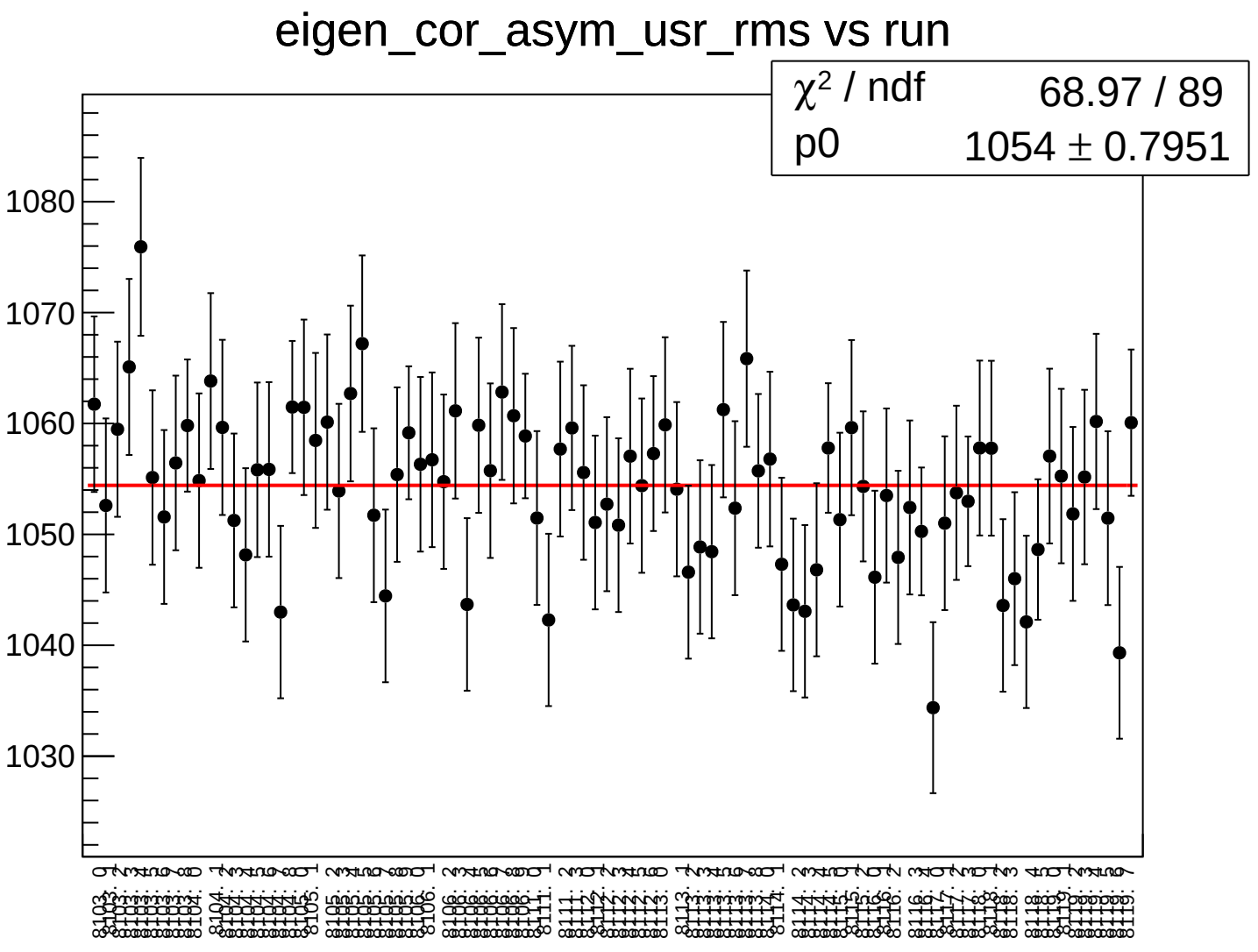

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 89.82 / 89
p0 4712 ± 2765
100
50
0
−50
−100
pull
Entries 90
Mean 1094
Std Dev 0
2
1
0
−1
−2
−3

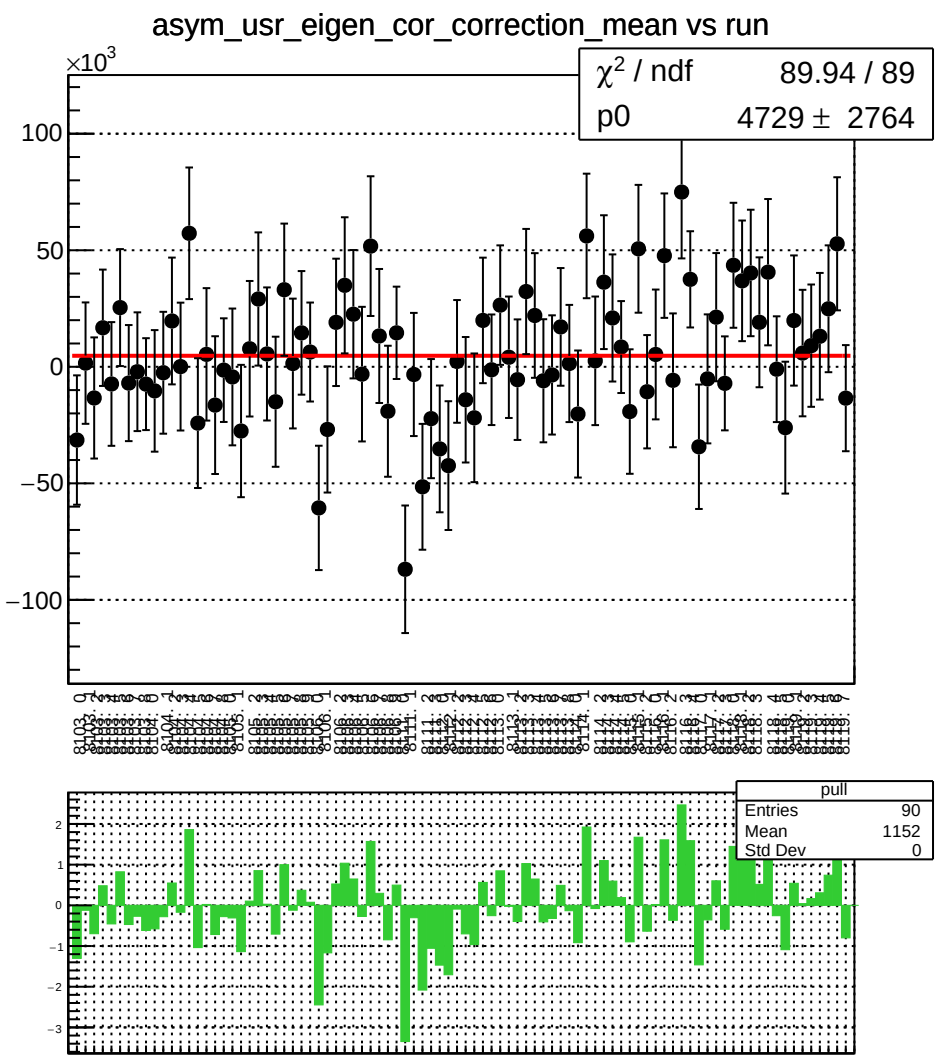

pull1D
Entries 90
Mean 0.006146
Std Dev 0.999
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

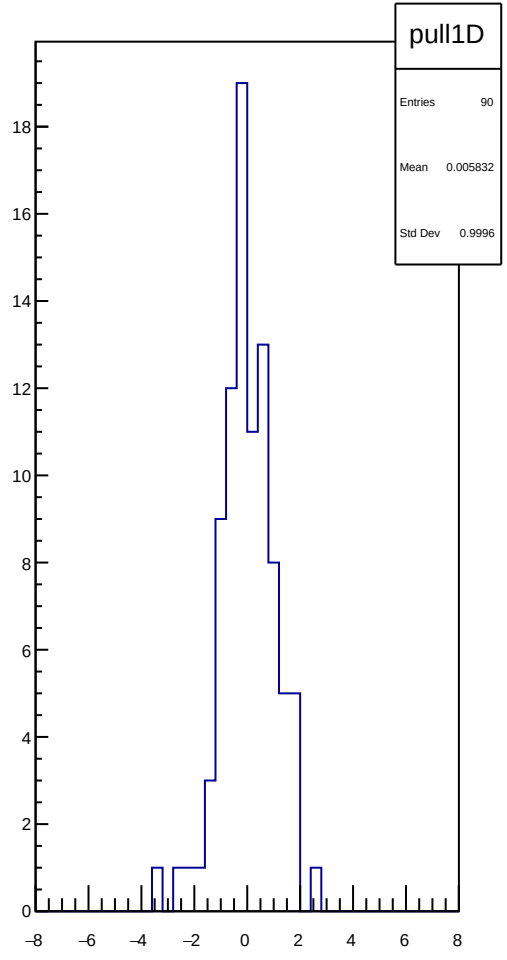

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 3067 / 89
p0 2590 ± 1.955
3000
2900
2800
2700
2600
2500
2400
2300

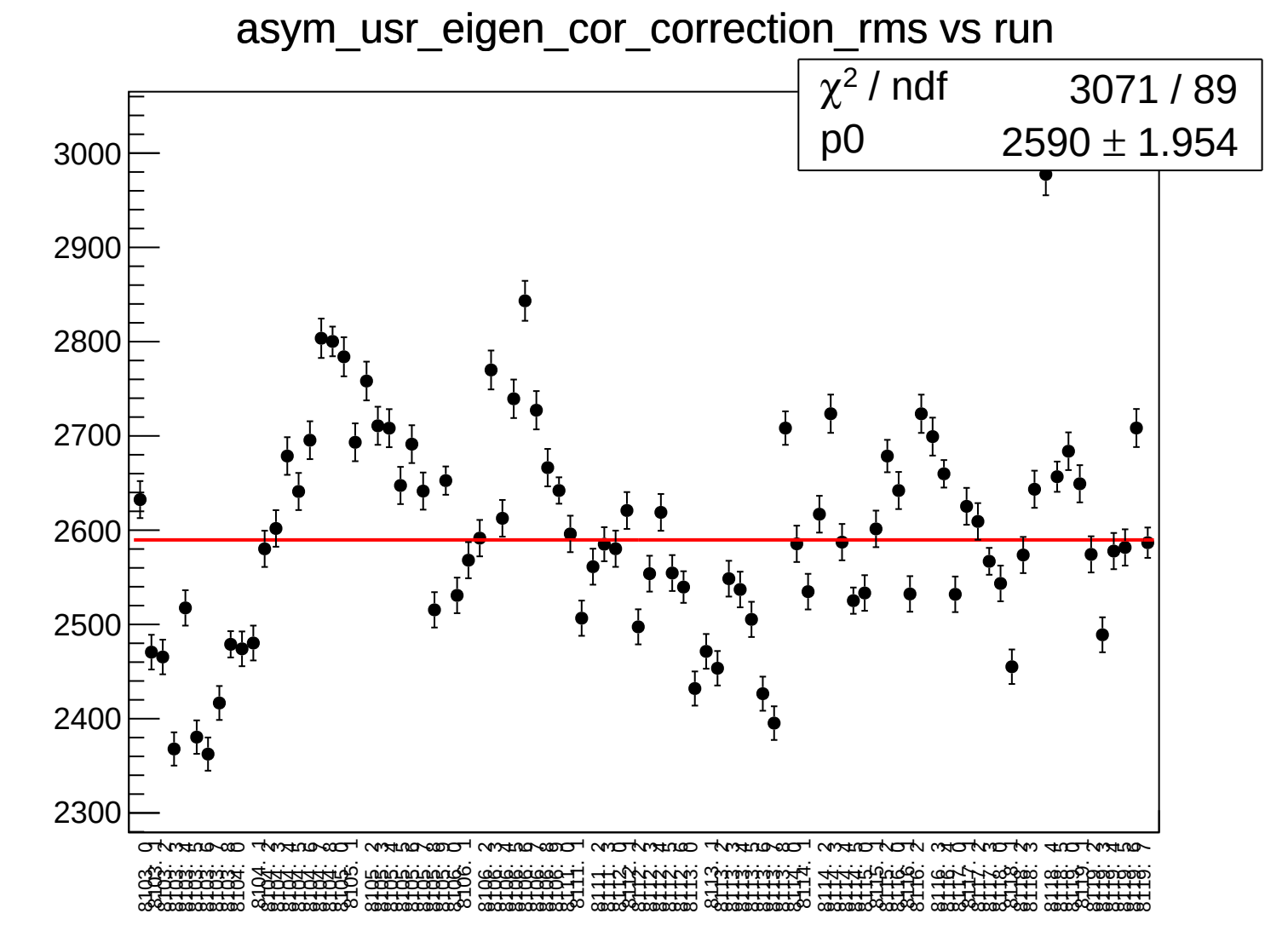

eigen_cor_asym_usr_mean vs run
χ² / ndf 74.26 / 89
p0 2936 ± 1124
pull
Entries 90
Mean 466.3
Std Dev 0

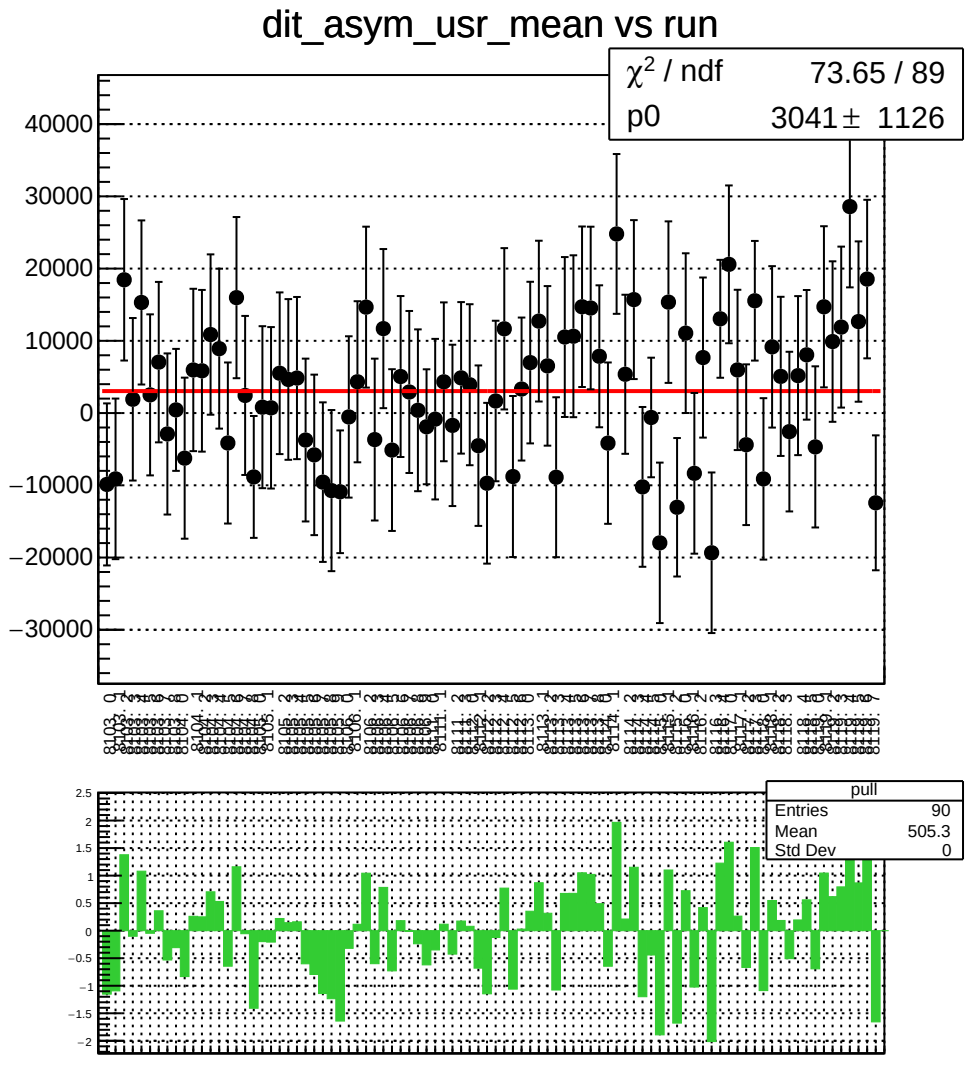

pull1D
Entries 90
Mean 0.009989
Std Dev 0.9083

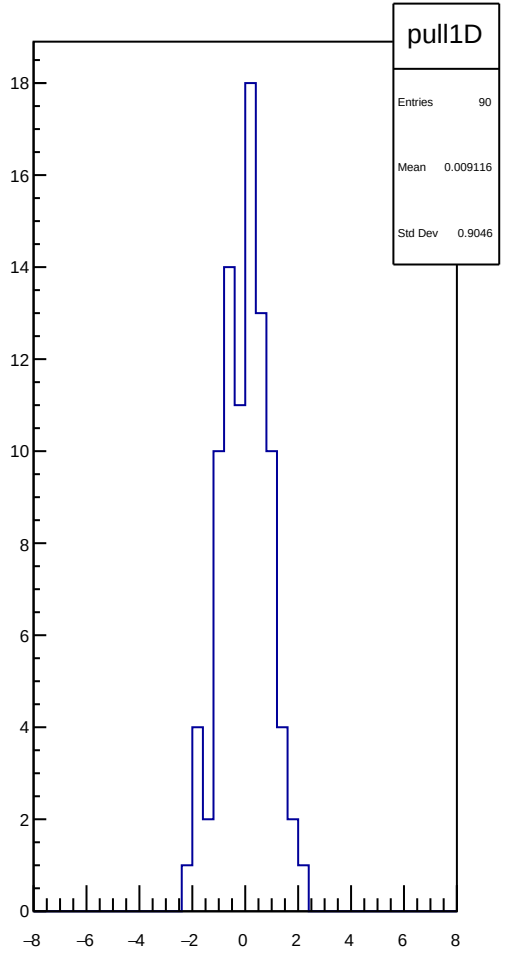

eigen_cor_asym_usr_rms vs run
χ² / ndf 68.97 / 89
p0 1054 ± 0.7951
1080
1070
1060
1050
1040
1030

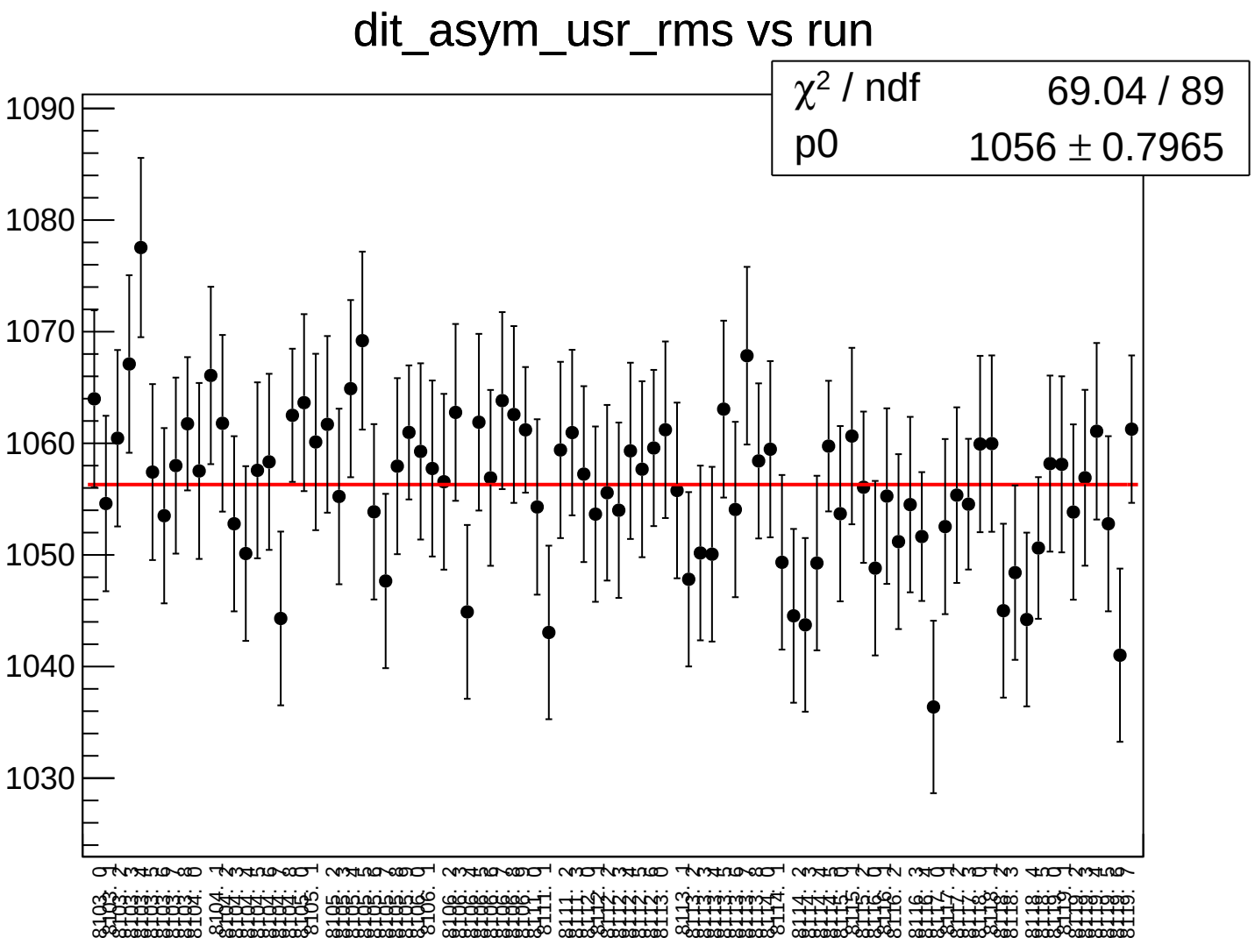

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.94 / 89
p0 4729 ± 2764
100
50
0
−50
−100
pull
Entries 90
Mean 1152
Std Dev 0
2
1
0
−1
−2
−3

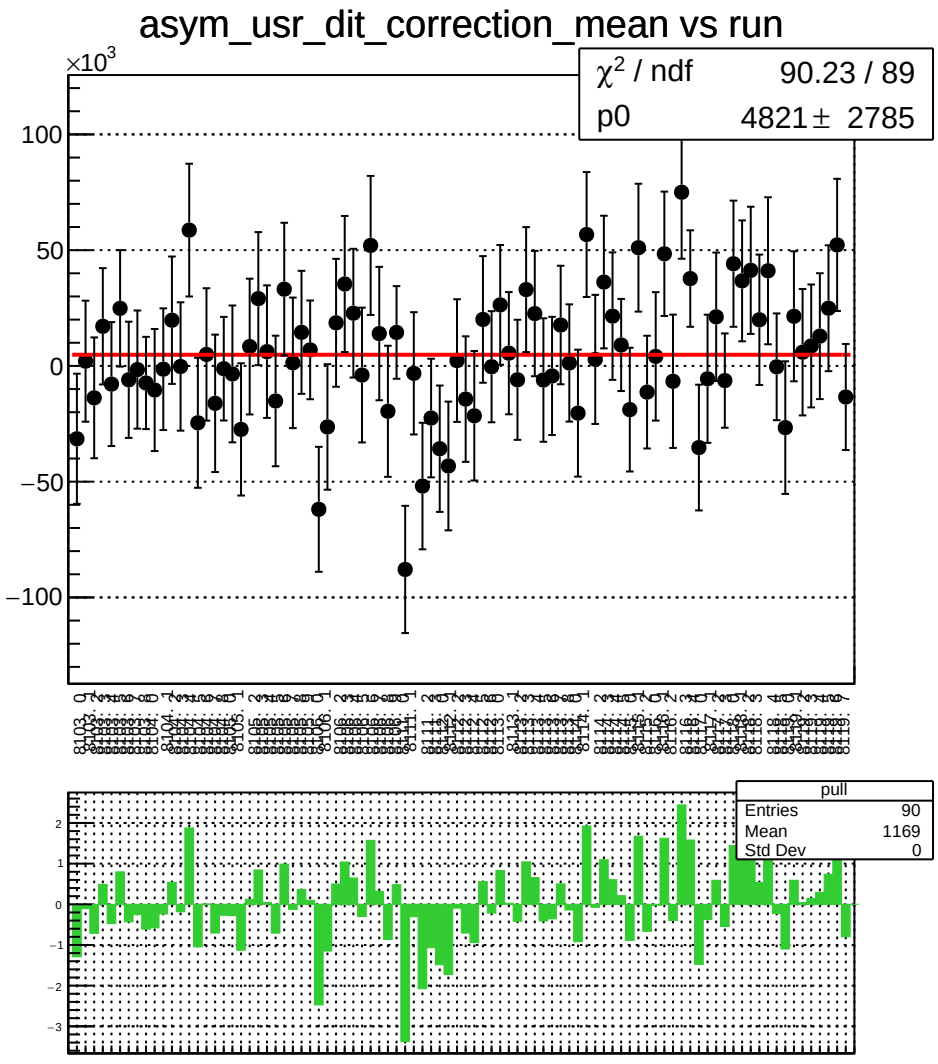

pull1D
Entries 90
Mean 0.005832
Std Dev 0.9996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

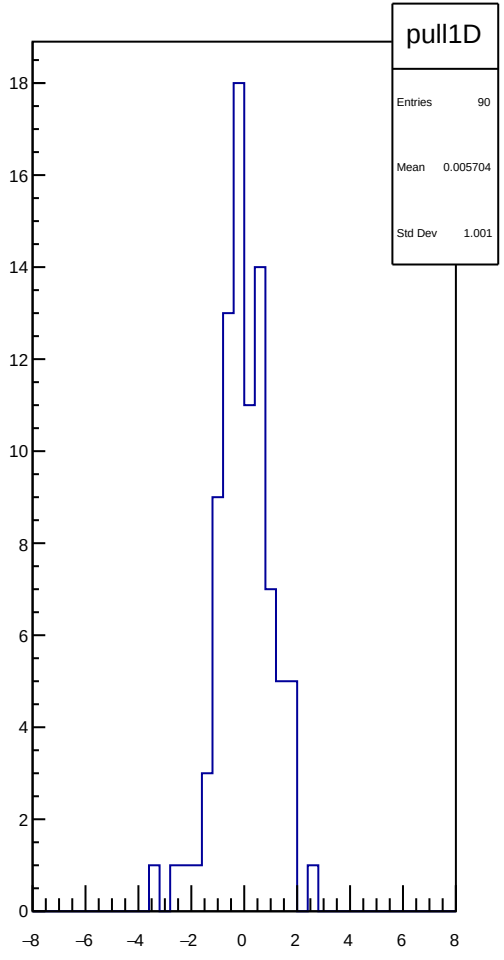

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 3071 / 89
p0 2590 ± 1.954
3000
2900
2800
2700
2600
2500
2400
2300

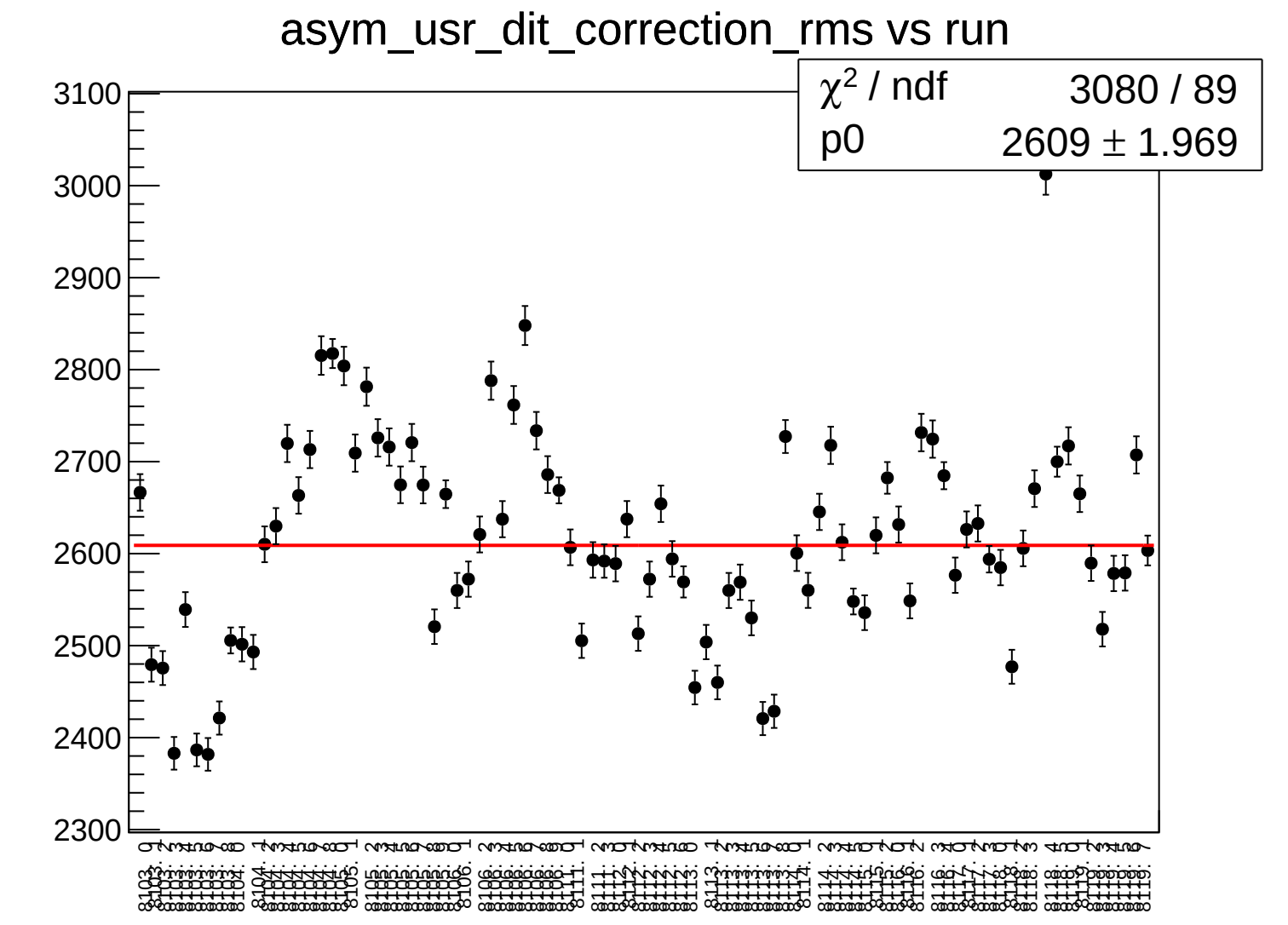

dit_asym_usr_mean vs run
χ² / ndf 73.65 / 89
p0 3041 ± 1126
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 505.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

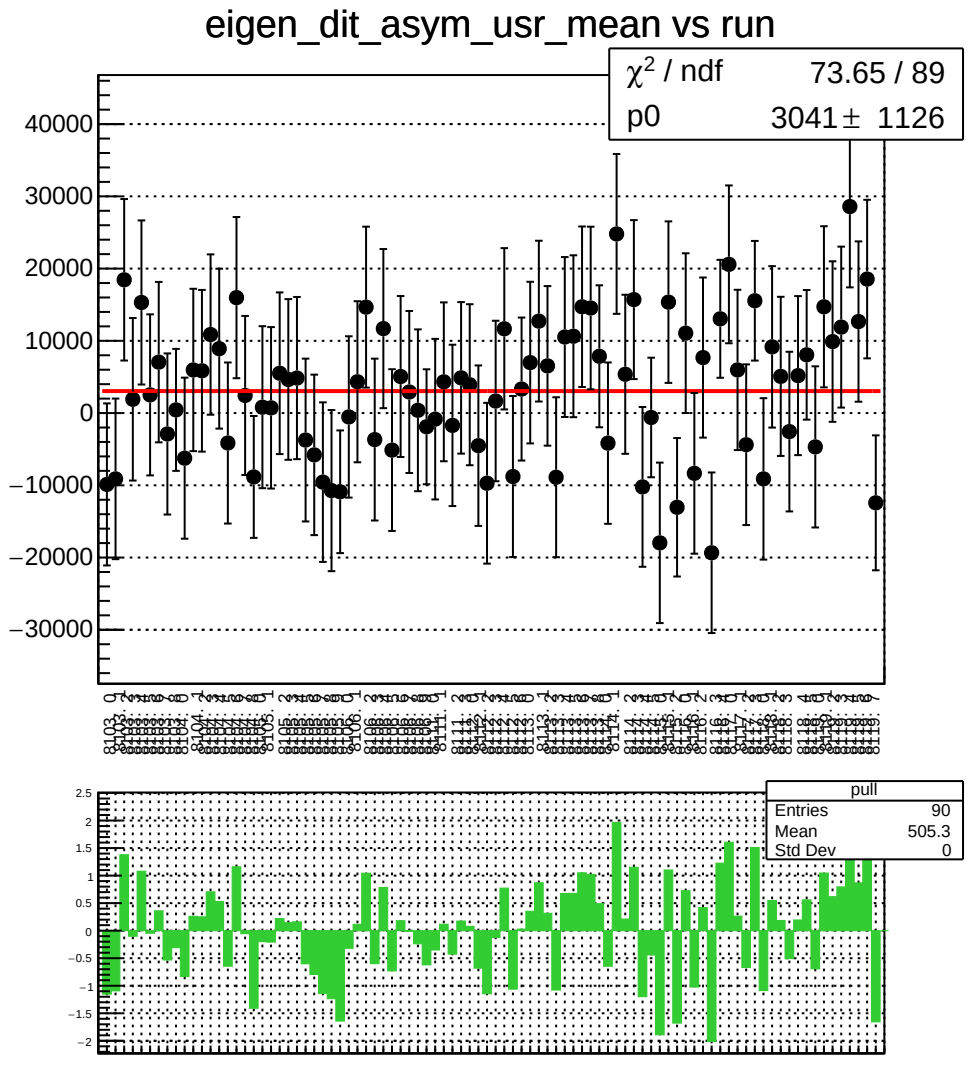

pull1D
Entries 90
Mean 0.009116
Std Dev 0.9046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

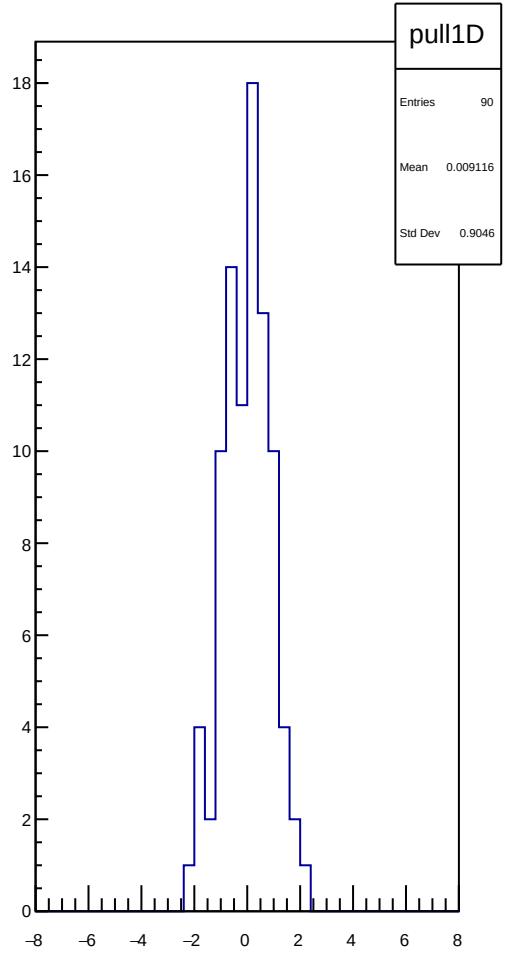

dit_asym_usr_rms vs run
χ^2 / ndf 69.04 / 89
p0 1056 ± 0.7965
1090
1080
1070
1060
1050
1040
1030

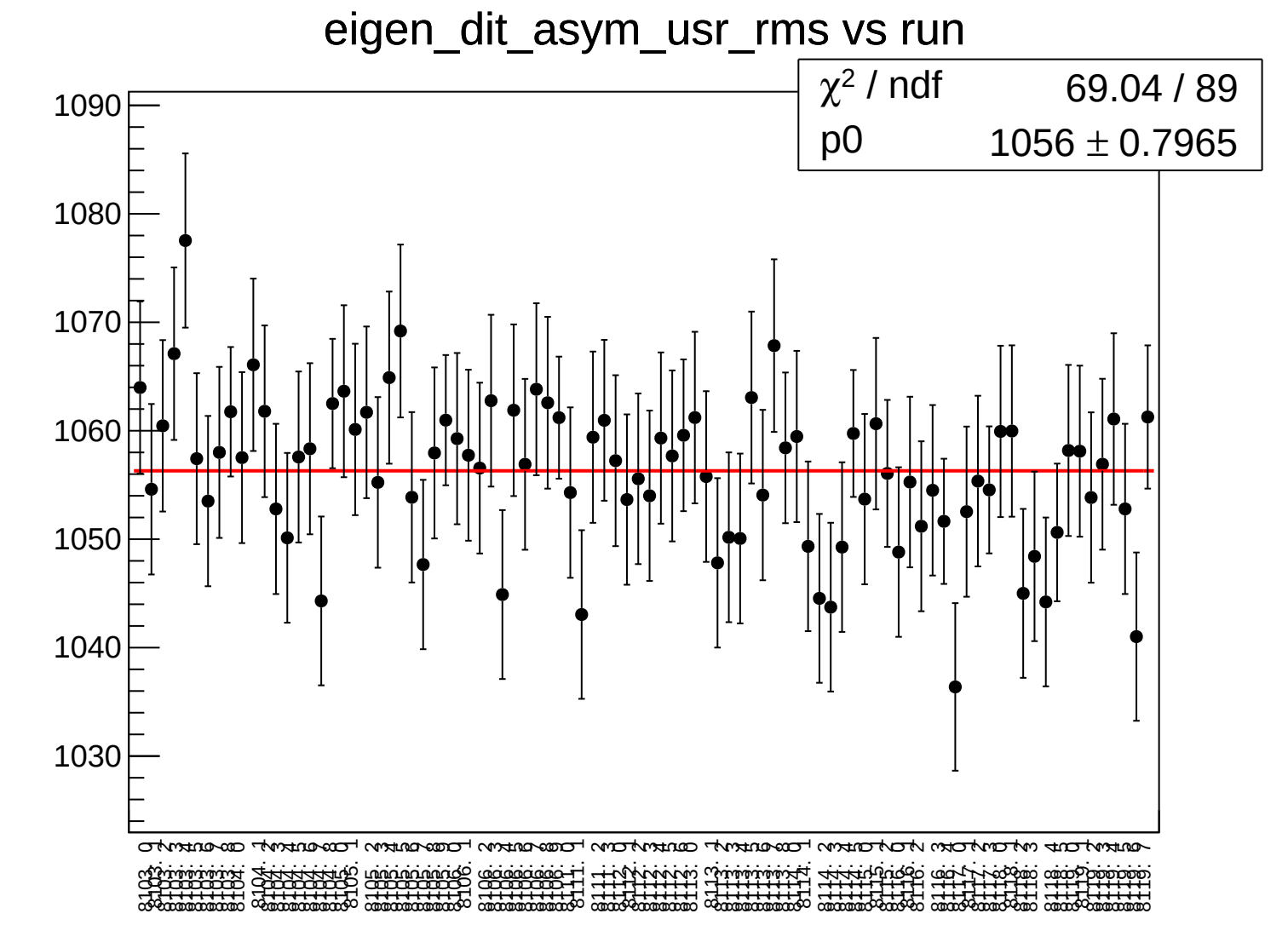

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 90.23 / 89
p0 4821 ± 2785
100
50
0
−50
−100
pull
Entries 90
Mean 1169
Std Dev 0
2
1
0
−1
−2
−3

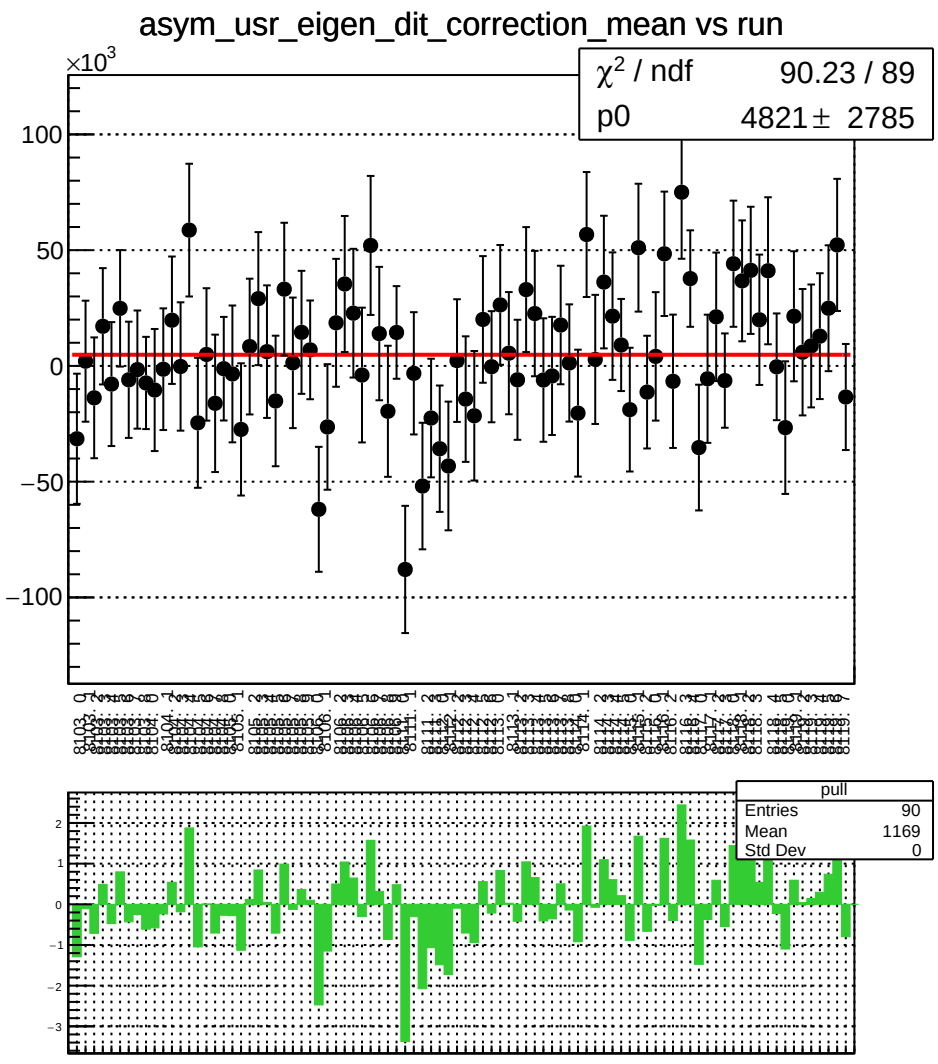

pull1D
Entries 90
Mean 0.005704
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

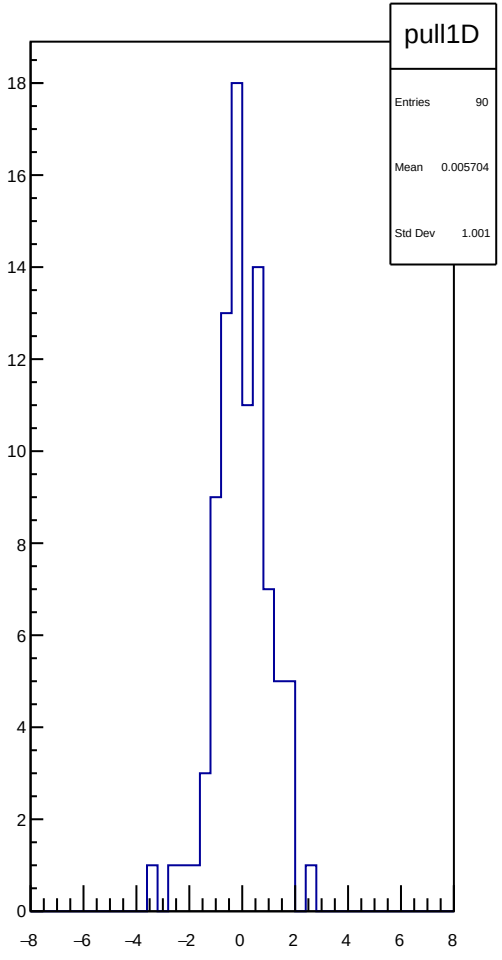

asym_usr_dit_correction_rms vs run
χ² / ndf 3080 / 89
p0 2609 ± 1.969
3100
3000
2900
2800
2700
2600
2500
2400
2300

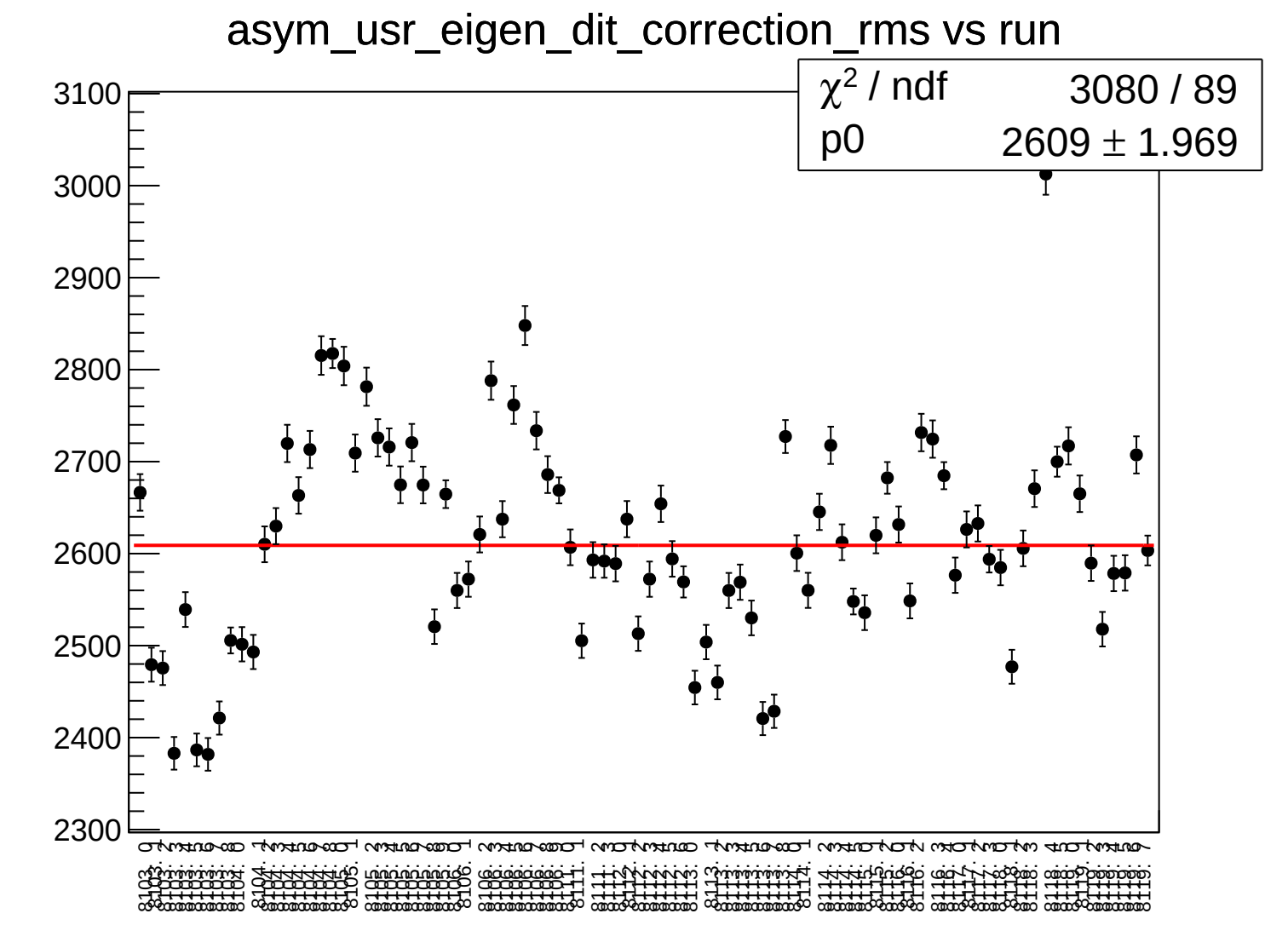

eigen_dit_asym_usr_mean vs run
χ² / ndf 73.65 / 89
p0 3041 ± 1126
pull
Entries 90
Mean 505.3
Std Dev 0

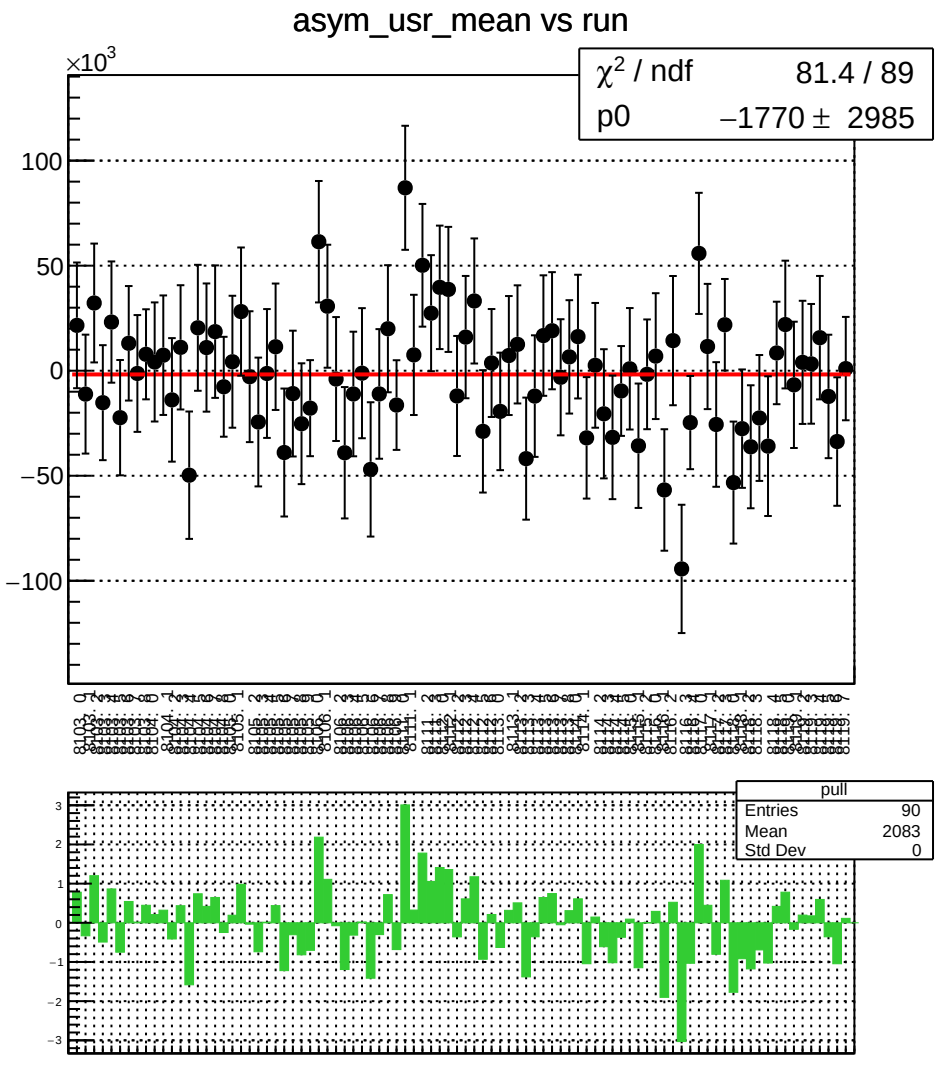

pull1D
Entries 90
Mean 0.009116
Std Dev 0.9046

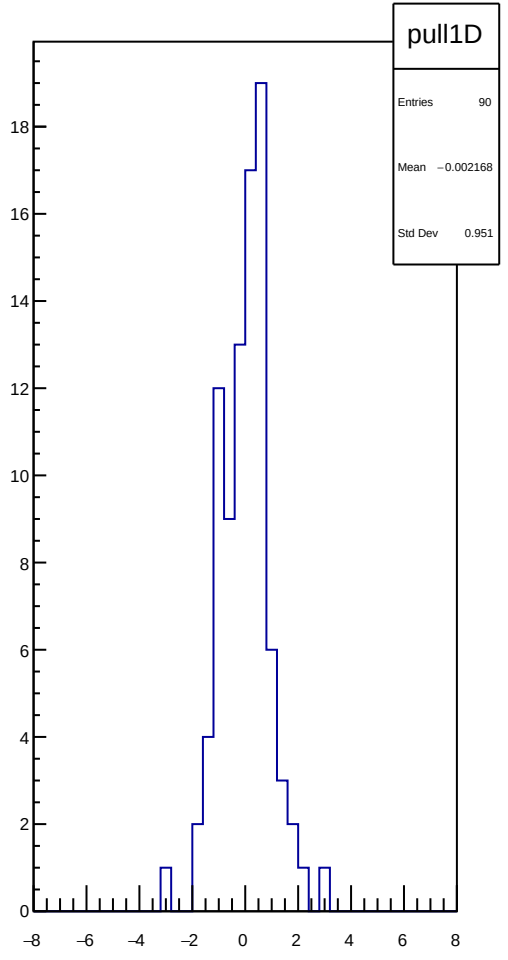

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 69.04 / 89
p0 1056 ± 0.7965
1090
1080
1070
1060
1050
1040
1030

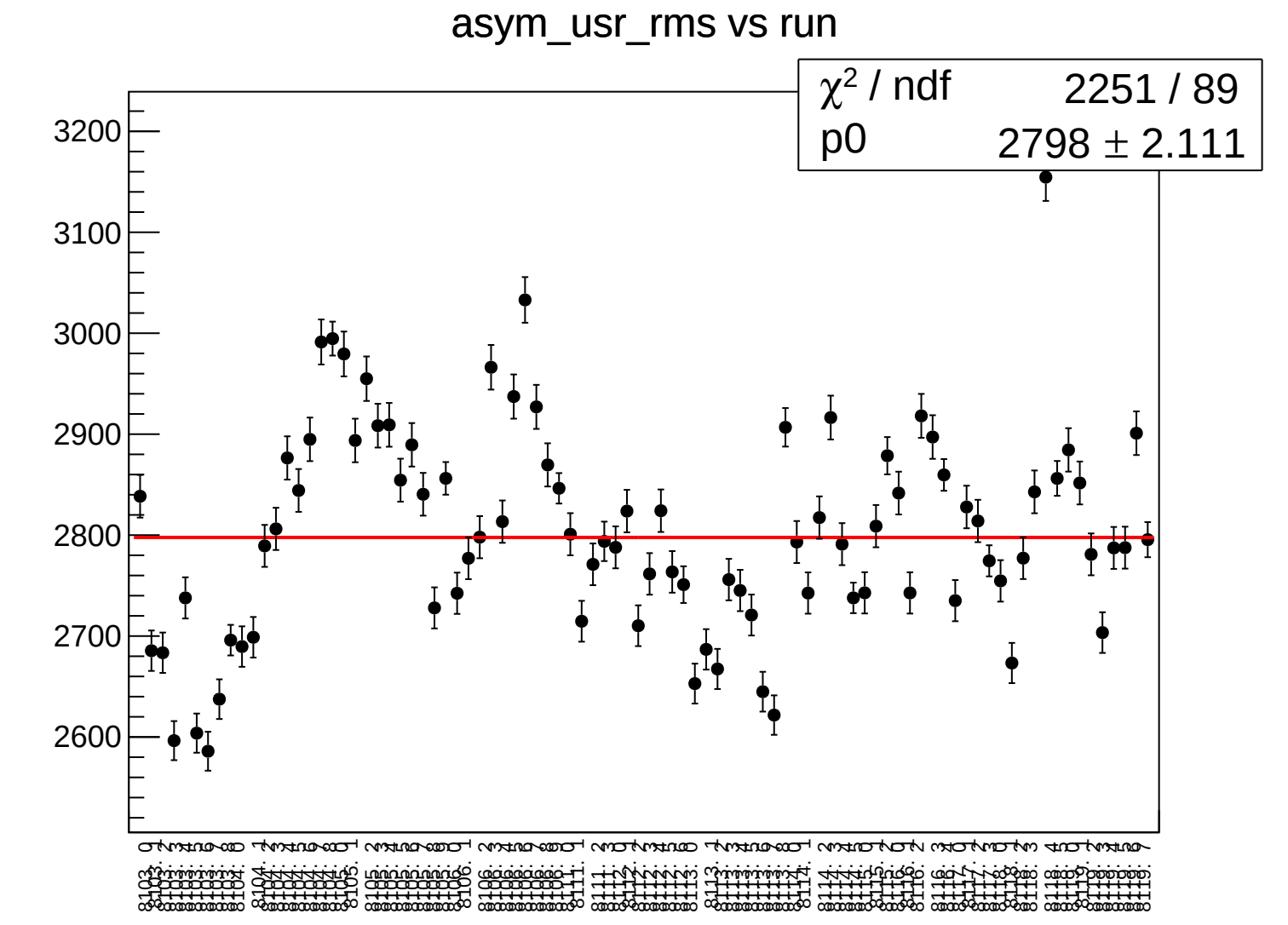

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.23 / 89
p0 4821 ± 2785
100
50
0
−50
−100
pull
Entries 90
Mean 1169
Std Dev 0
2
1
0
−1
−2
−3

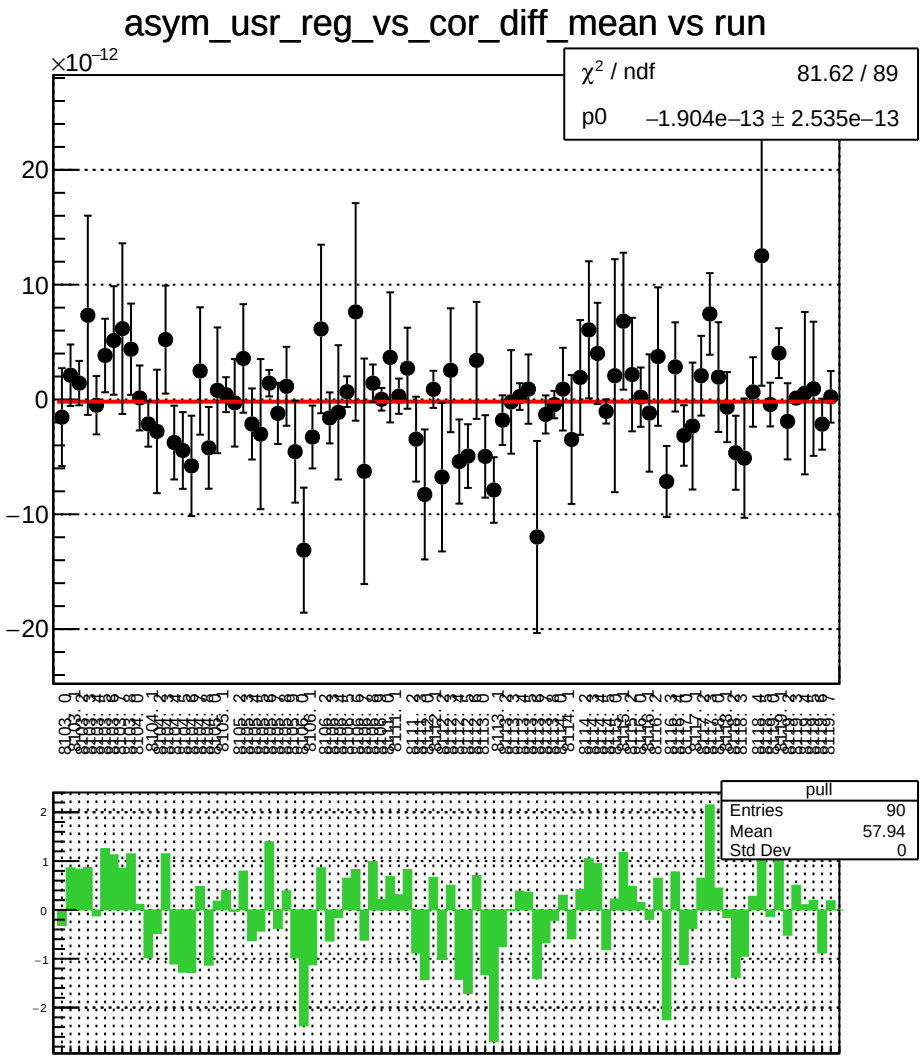

pull1D
Entries 90
Mean 0.005704
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

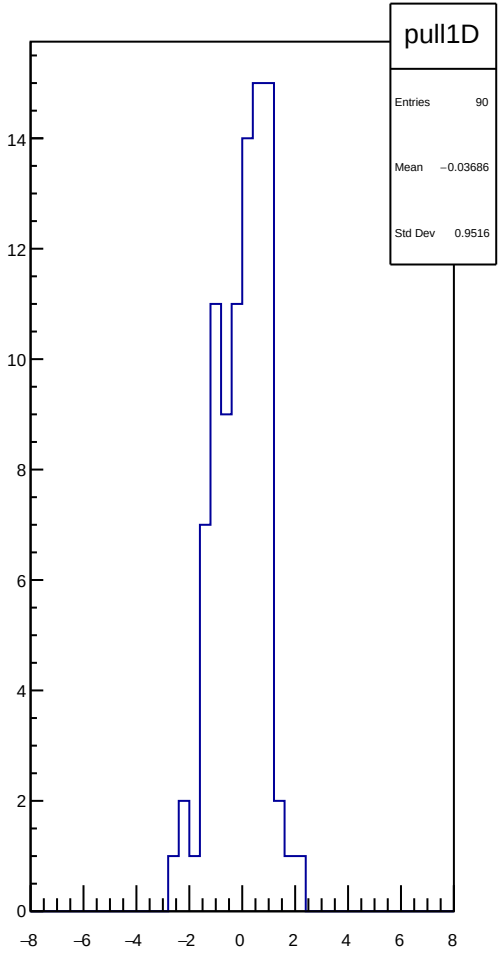

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 3080 / 89
p0 2609 ± 1.969
3100
3000
2900
2800
2700
2600
2500
2400
2300

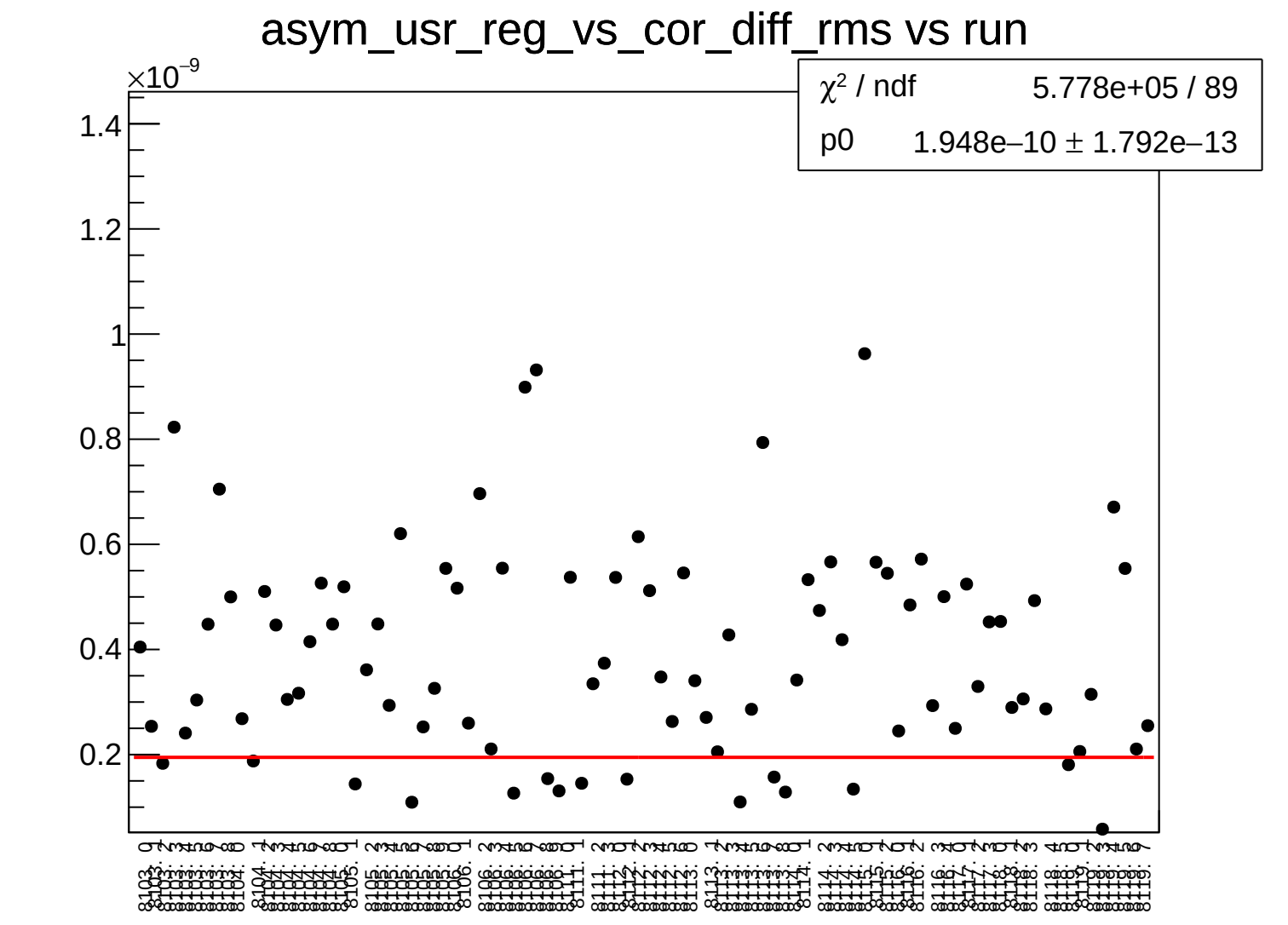

asym_usr_mean vs run
×10^3
χ^2 / ndf 81.4 / 89
p0 −1770 ± 2985
100
50
0
−50
−100
pull
Entries 90
Mean 2083
Std Dev 0
3
2
1
0
−1
−2
−3

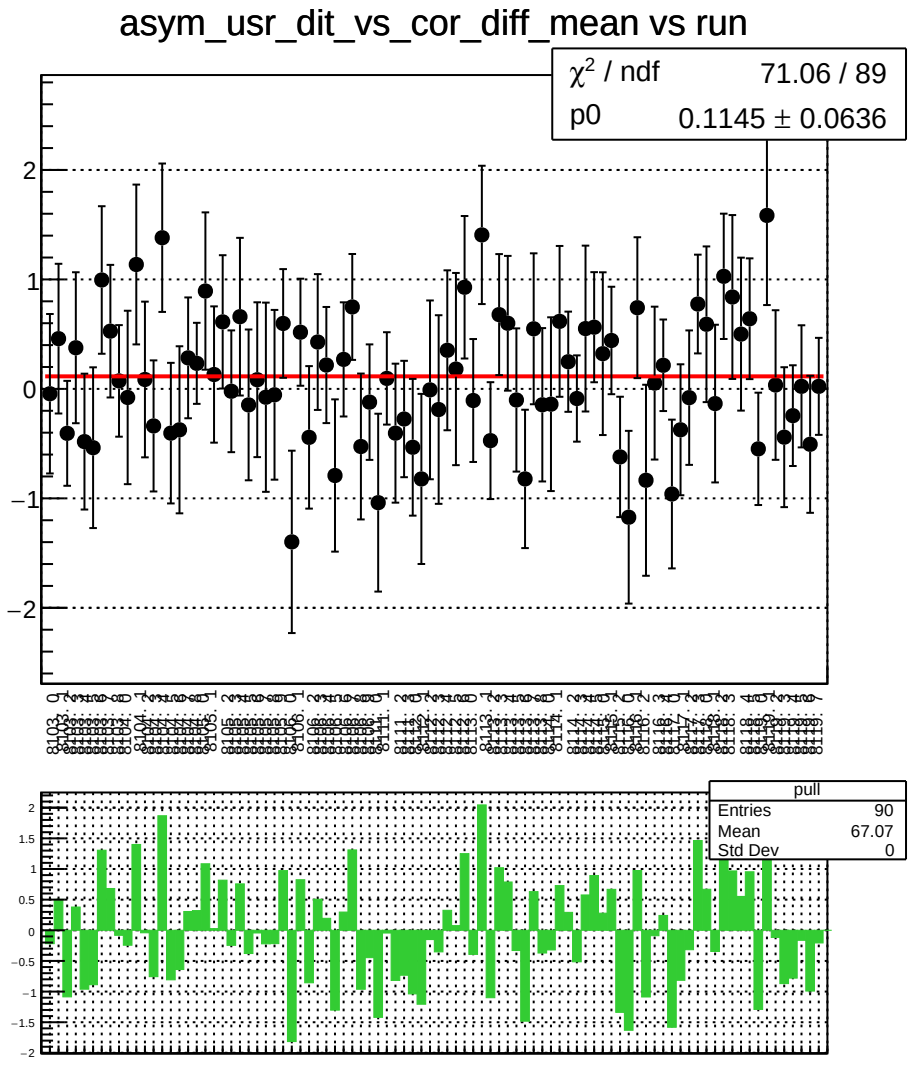

pull1D
Entries 90
Mean −0.002168
Std Dev 0.951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

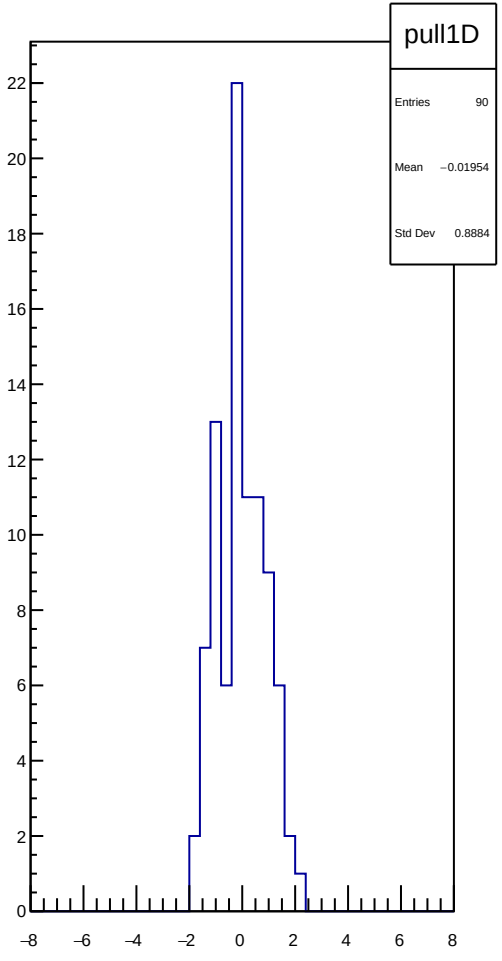

asym_usr_rms vs run
χ² / ndf 2251 / 89
p0 2798 ± 2.111
3200
3100
3000
2900
2800
2700
2600

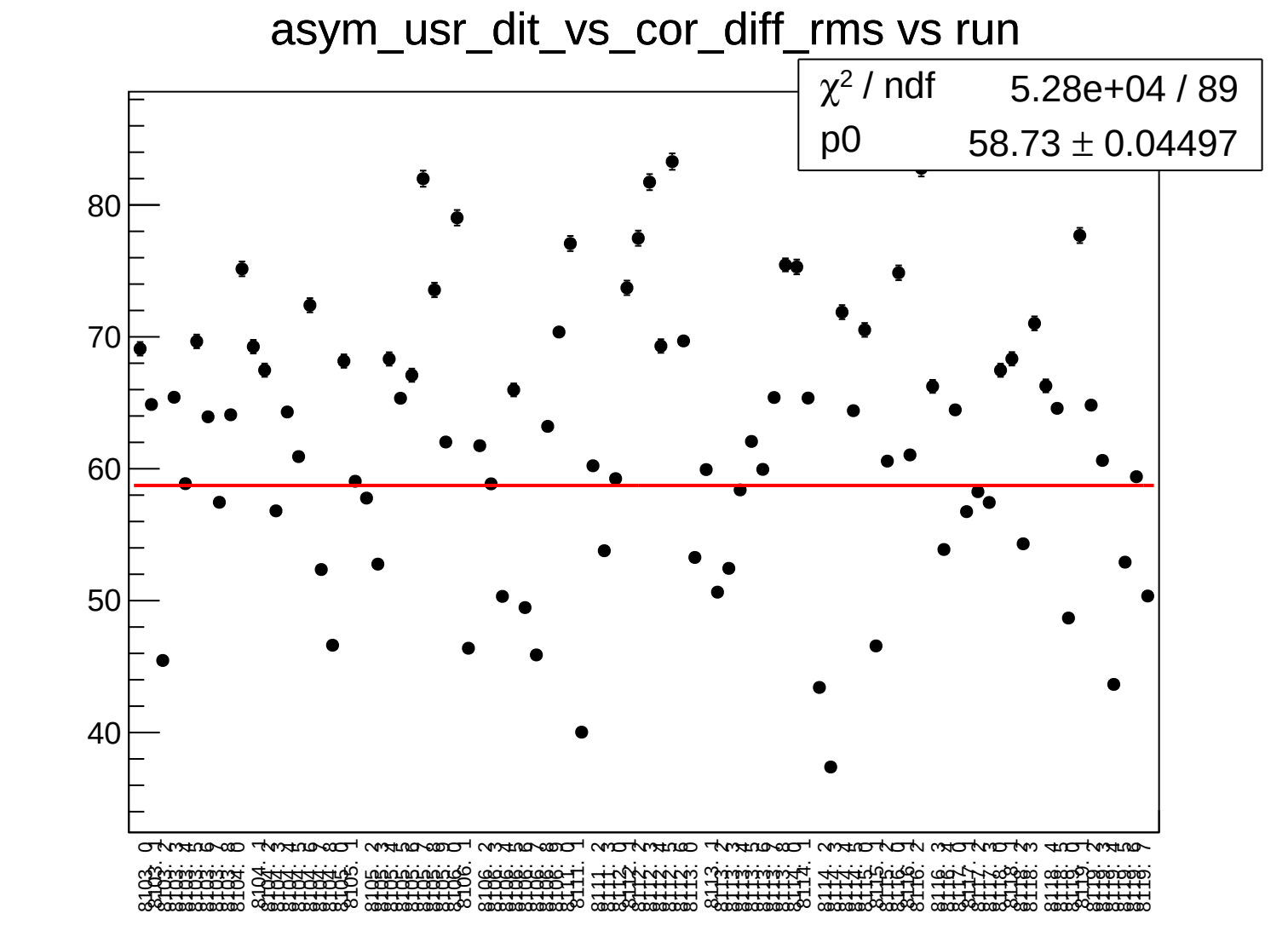

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.62 / 89
p0 −1.904e−13 ± 2.535e−13
pull
Entries 90
Mean 57.94
Std Dev 0

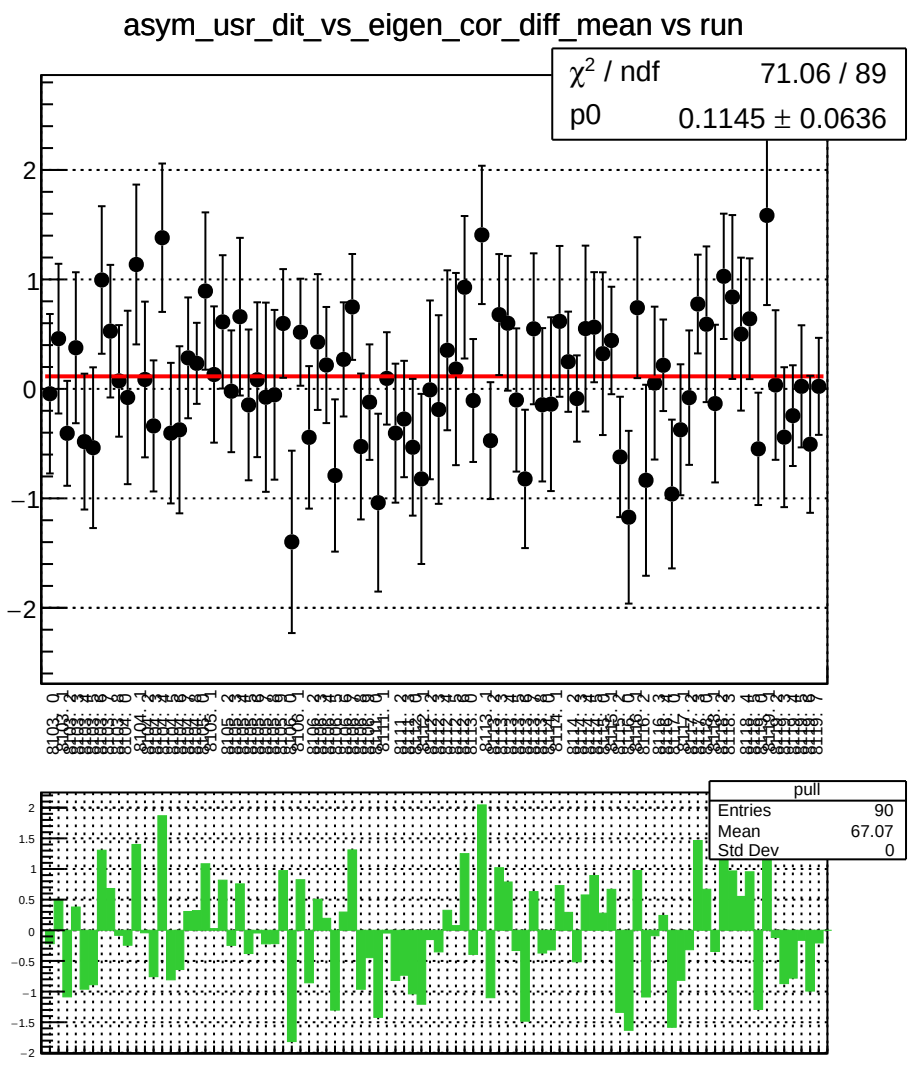

pull1D
Entries 90
Mean −0.03686
Std Dev 0.9516

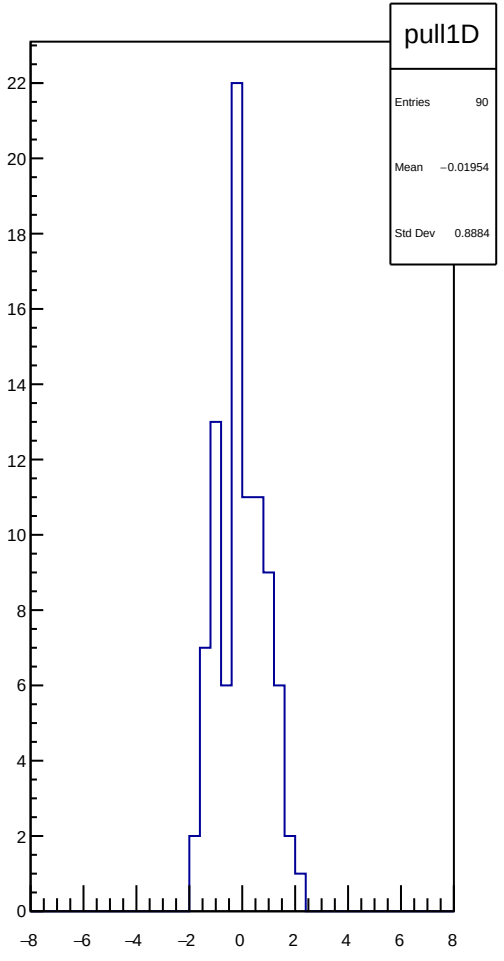

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.778e+05 / 89
p0 1.948e−10 ± 1.792e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

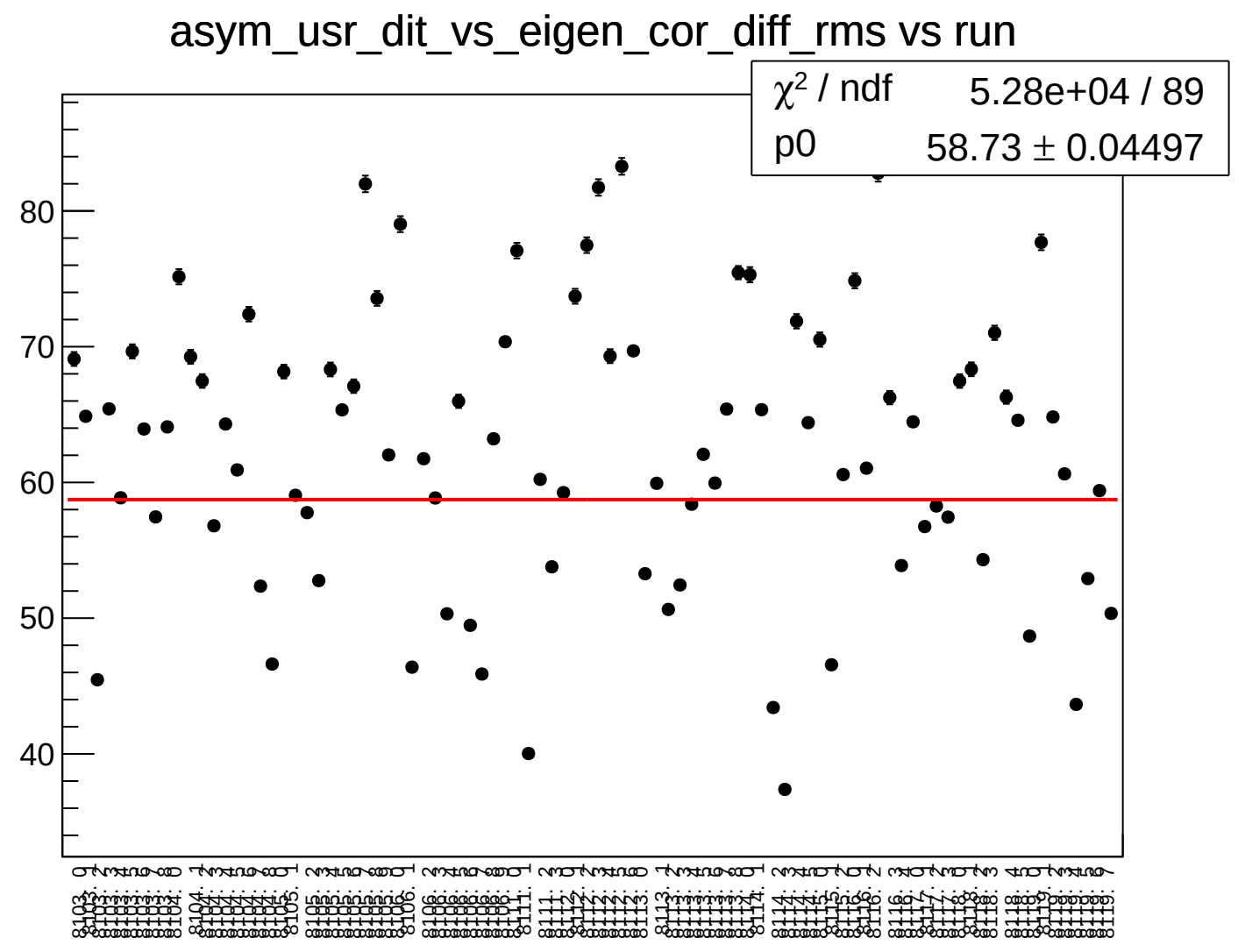

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 71.06 / 89
p0 0.1145 ± 0.0636
pull
Entries 90
Mean 67.07
Std Dev 0

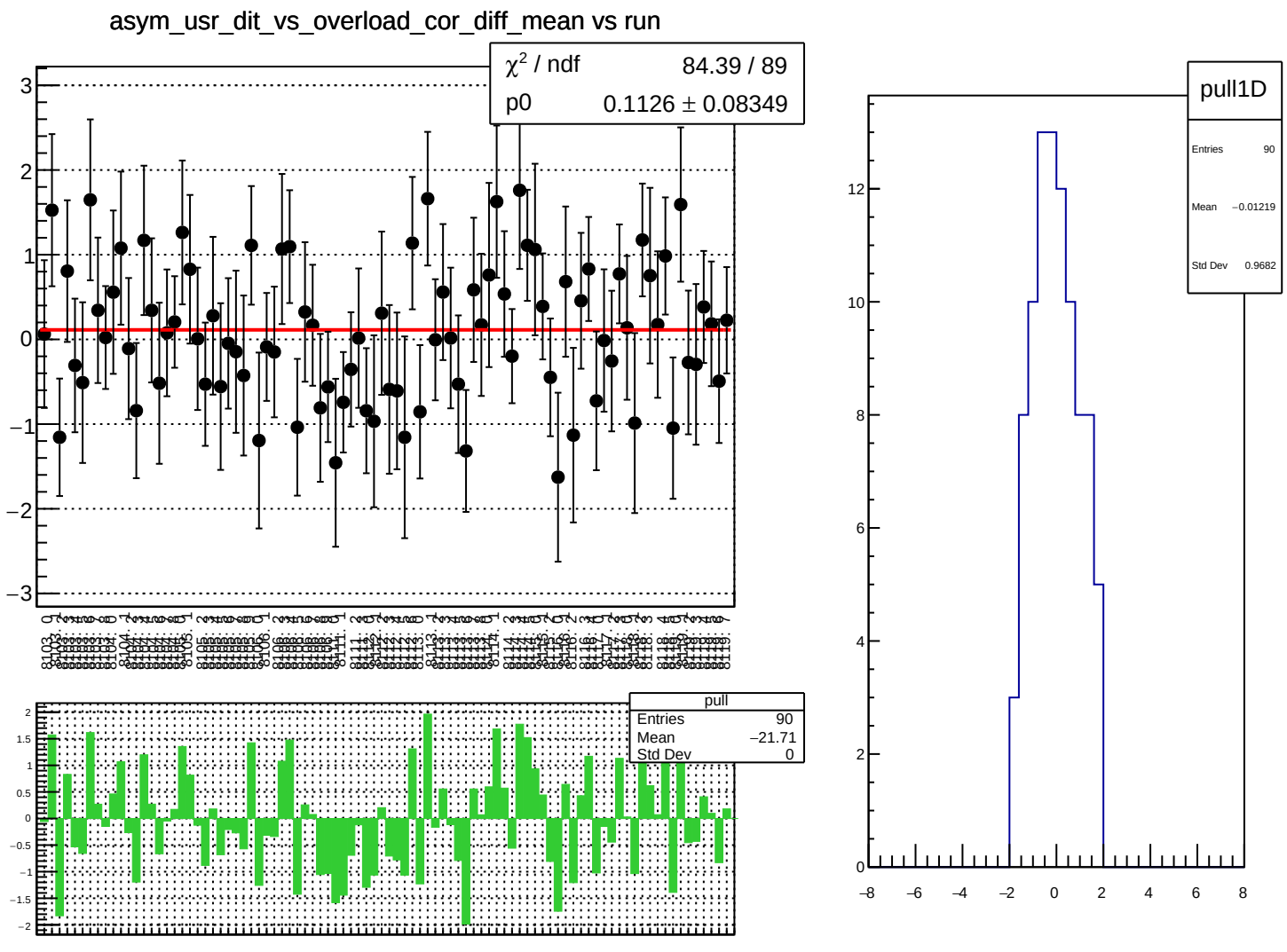

pull1D
Entries 90
Mean −0.01954
Std Dev 0.8884

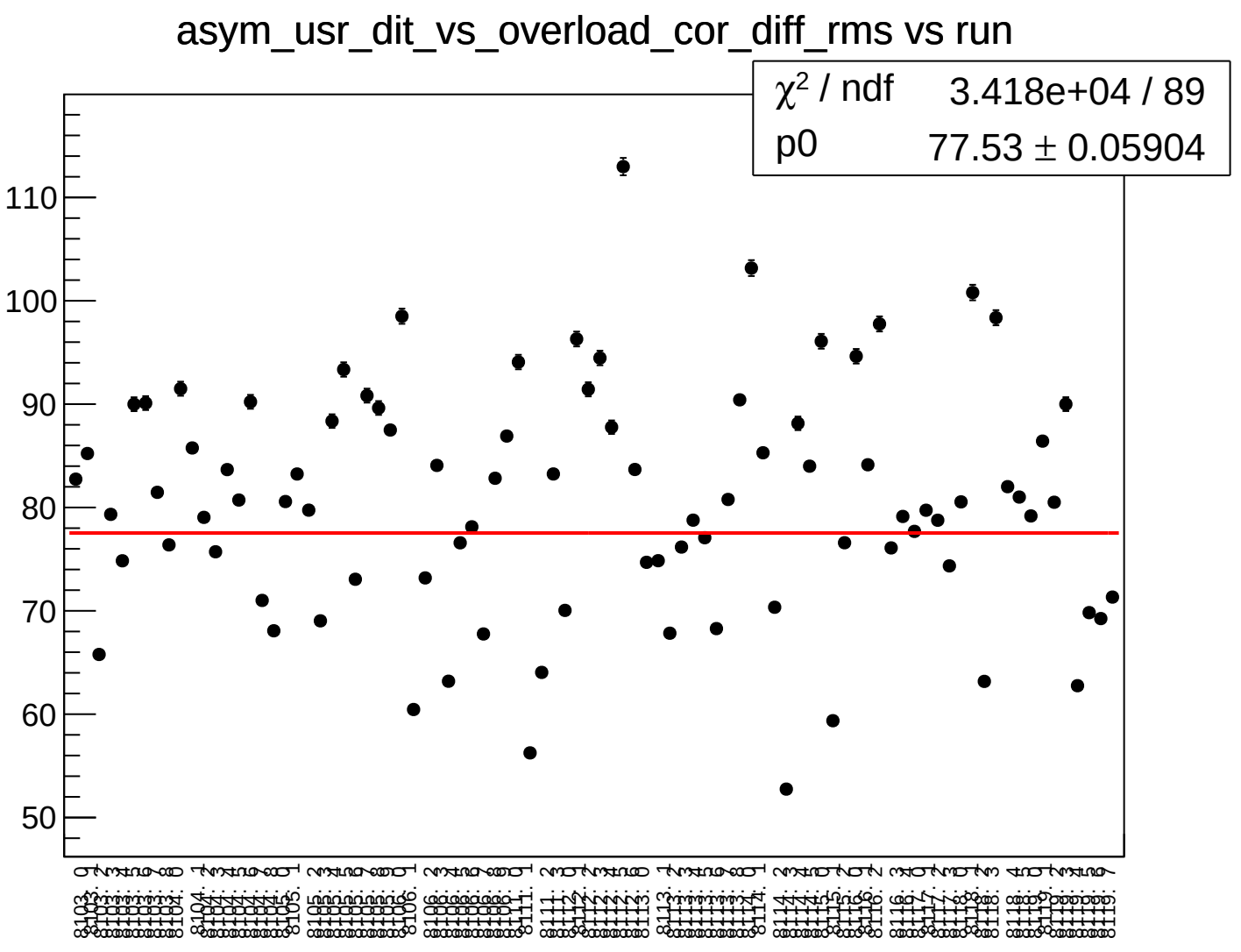

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 5.28e+04 / 89
p0 58.73 ± 0.04497
80
70
60
50
40

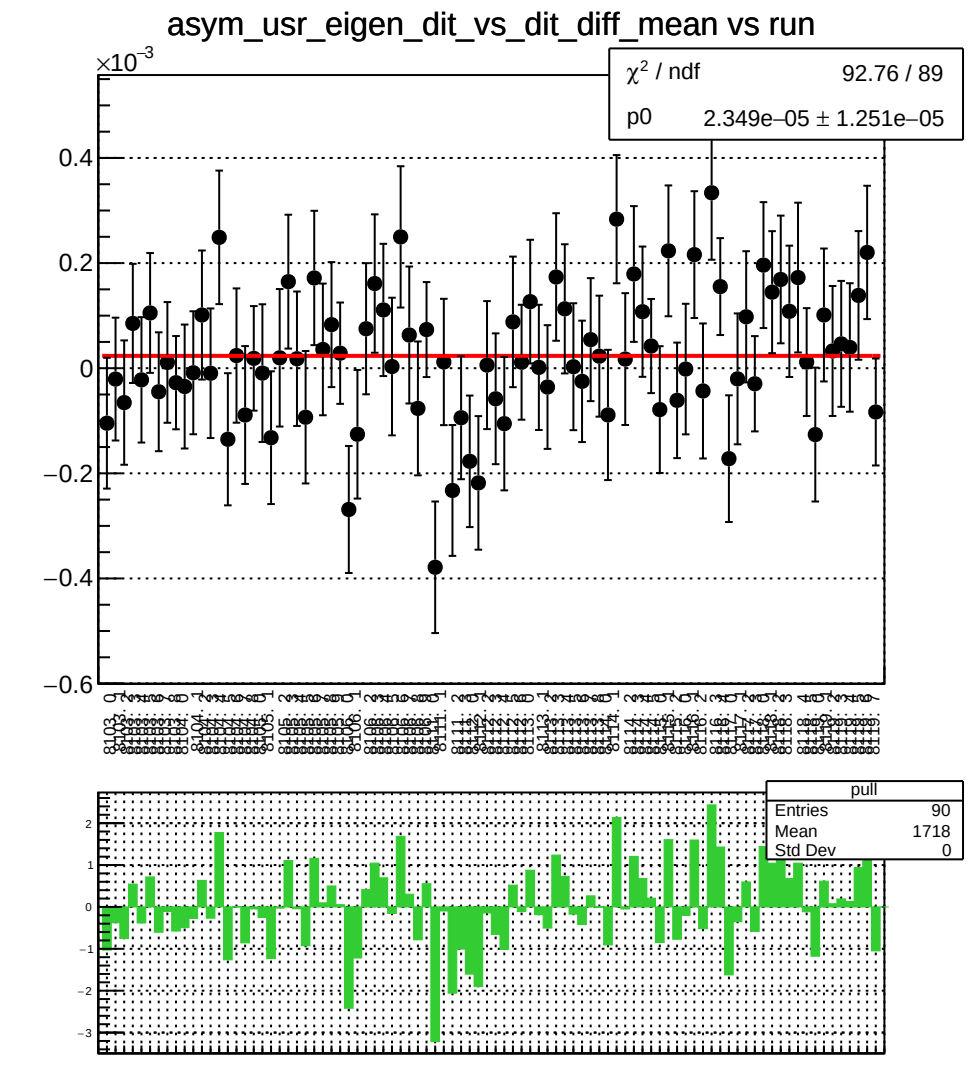

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.06 / 89
p0 0.1145 ± 0.0636
pull
Entries 90
Mean 67.07
Std Dev 0

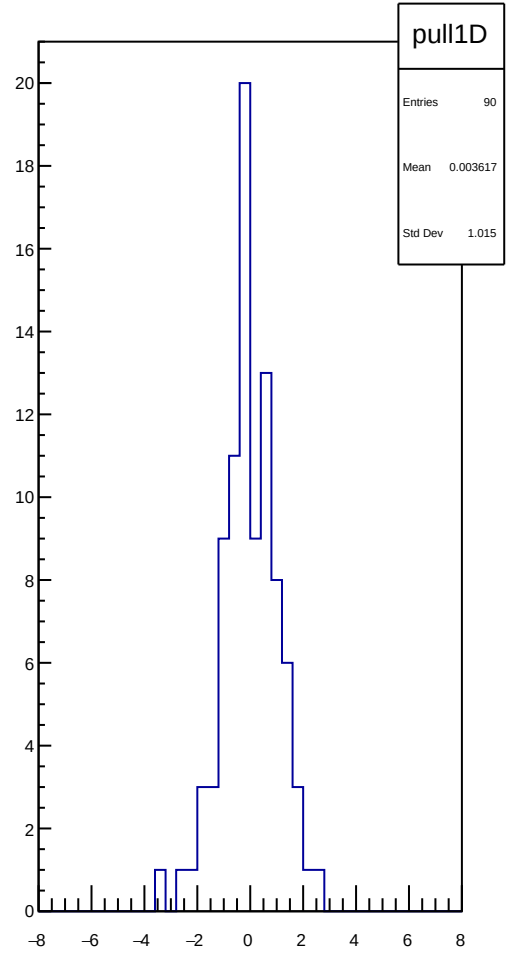

pull1D
Entries 90
Mean −0.01954
Std Dev 0.8884

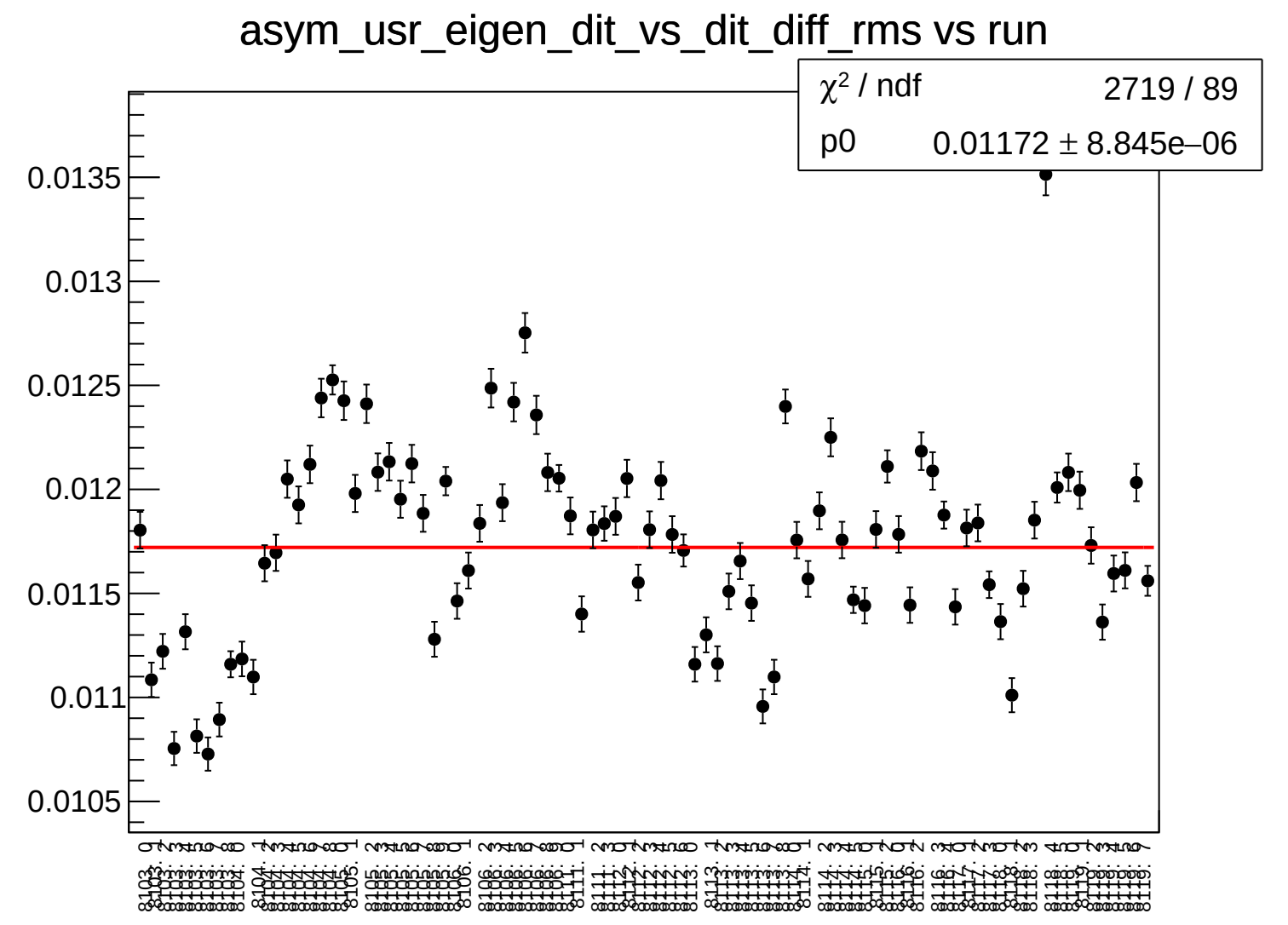

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.28e+04 / 89
p0 58.73 ± 0.04497
80
70
60
50
40

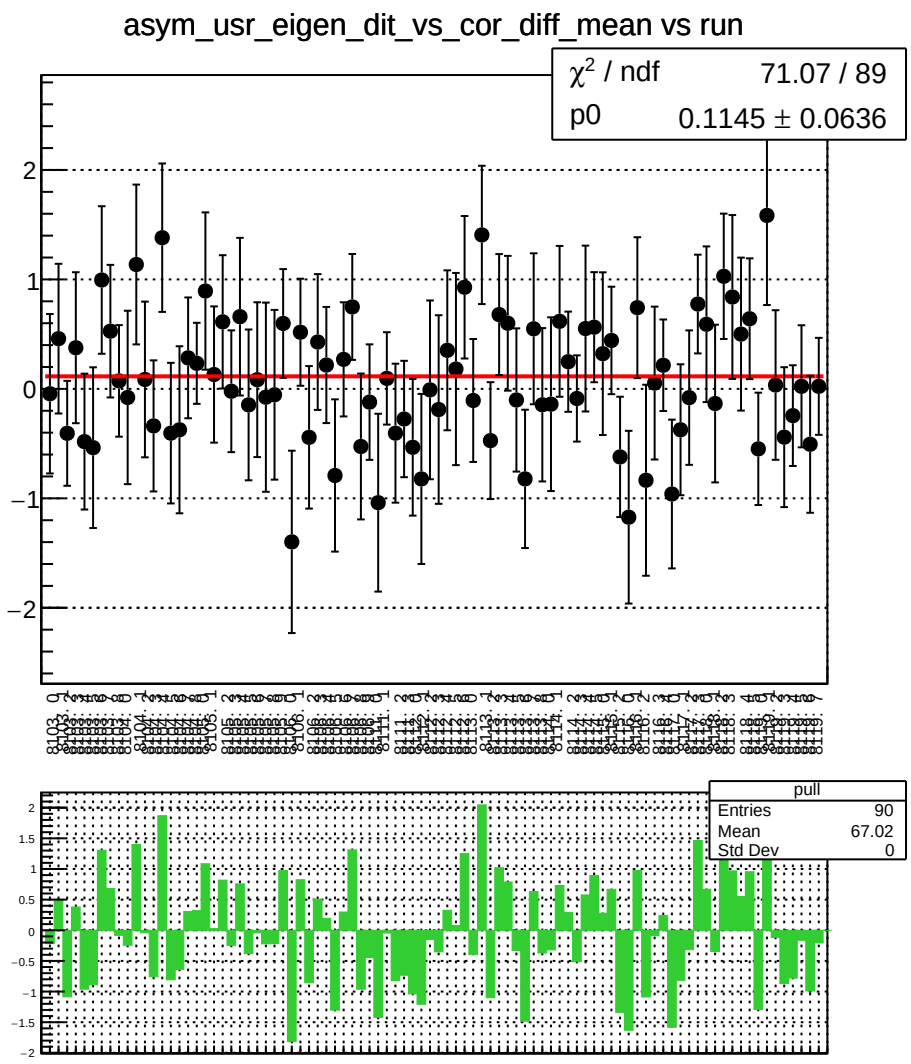

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.39 / 89
p0 0.1126 ± 0.08349
pull
Entries 90
Mean −21.71
Std Dev 0
pull1D
Entries 90
Mean −0.01219
Std Dev 0.9682

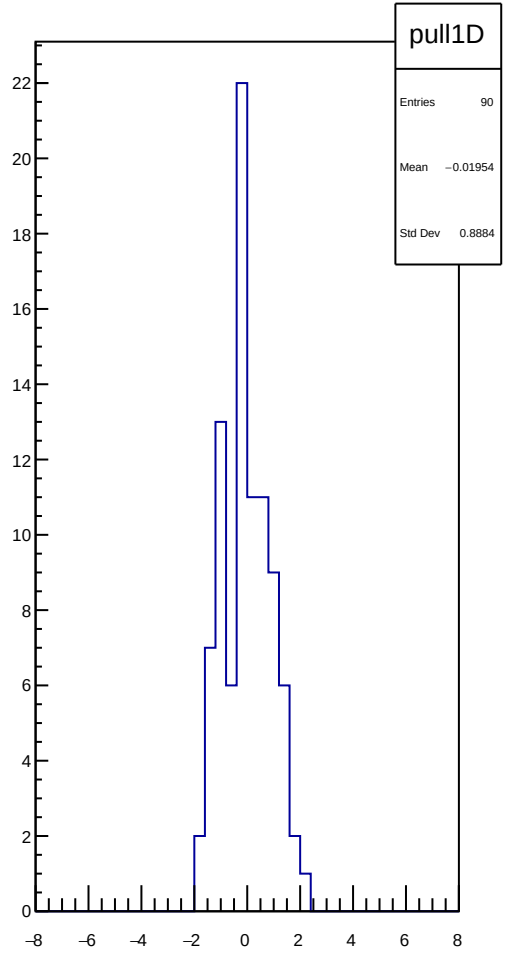

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.418e+04 / 89
p0 77.53 ± 0.05904
110
100
90
80
70
60
50

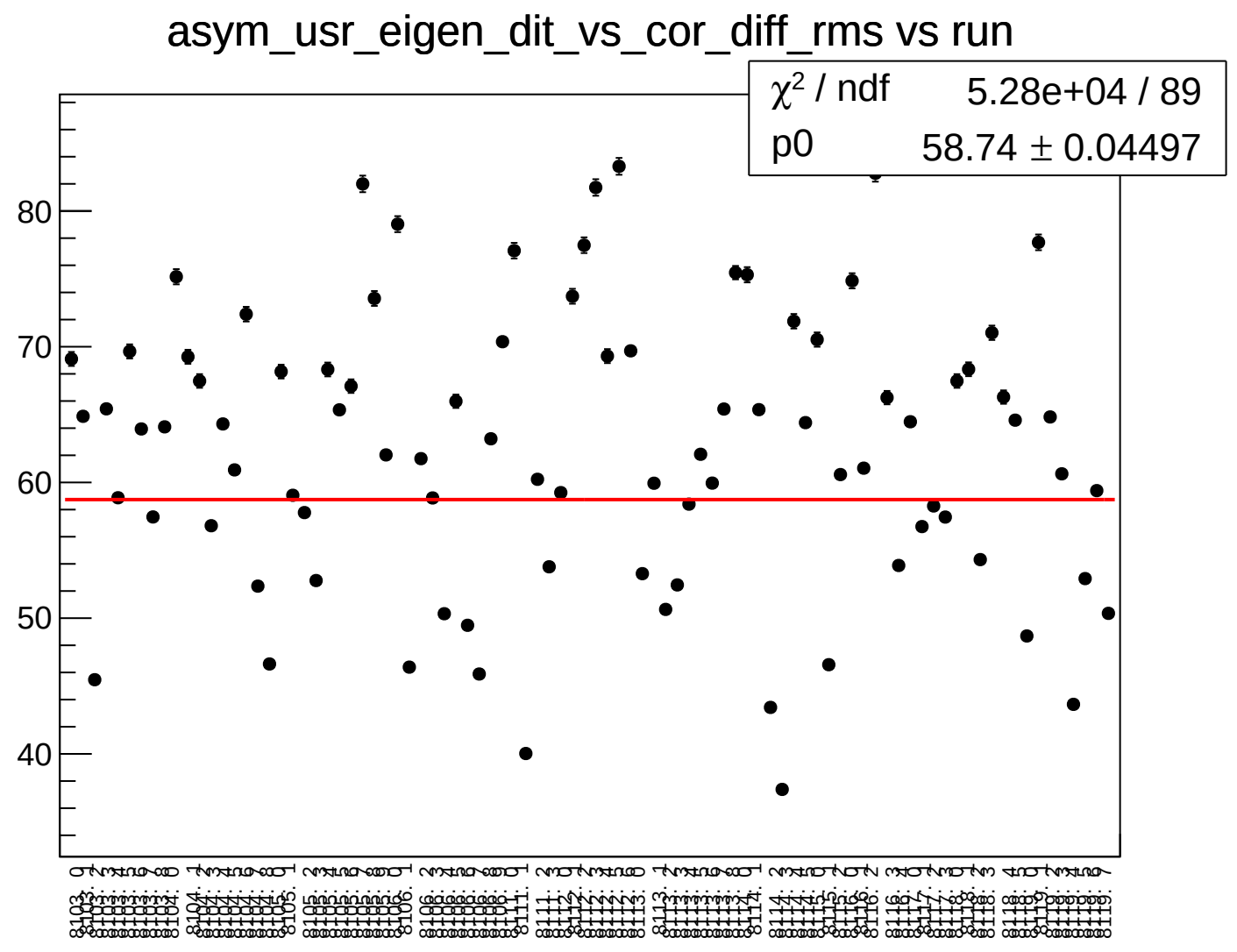

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.76 / 89
p0 2.349e−05 ± 1.251e−05
pull
Entries 90
Mean 1718
Std Dev 0

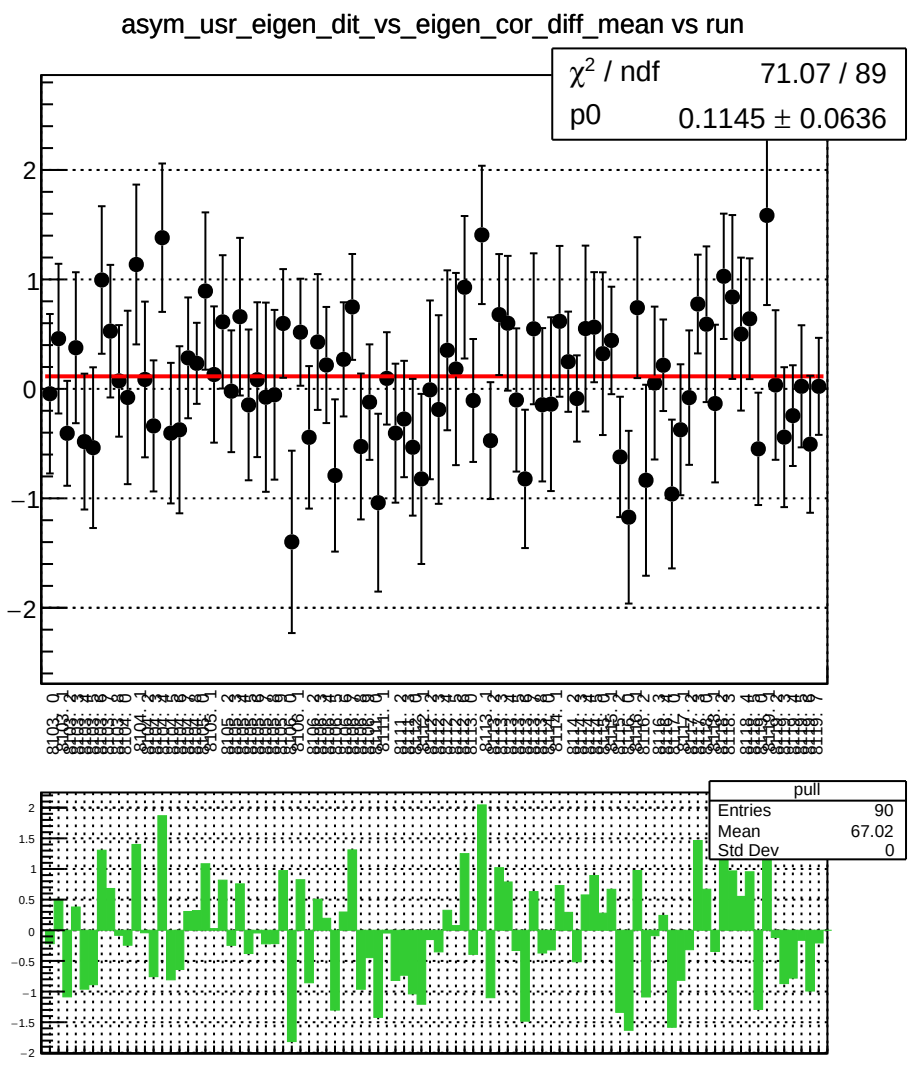

pull1D
Entries 90
Mean 0.003617
Std Dev 1.015

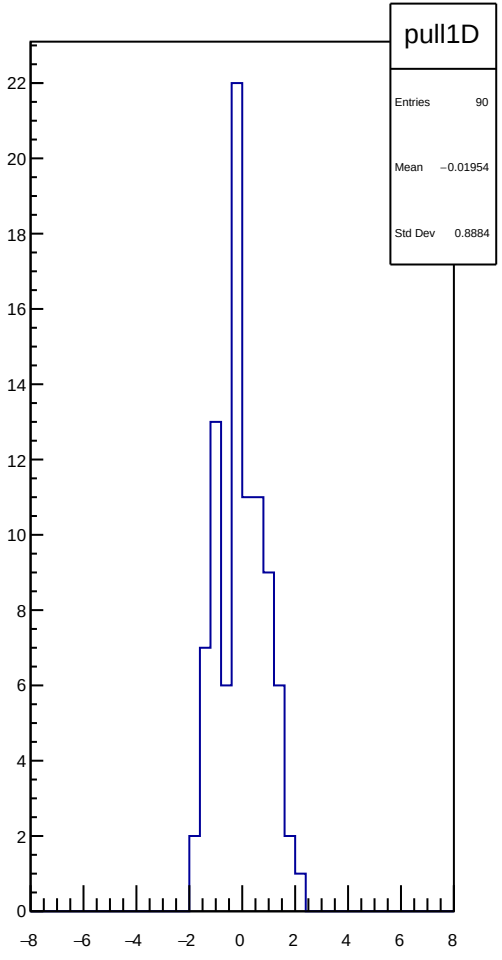

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2719 / 89
p0 0.01172 ± 8.845e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

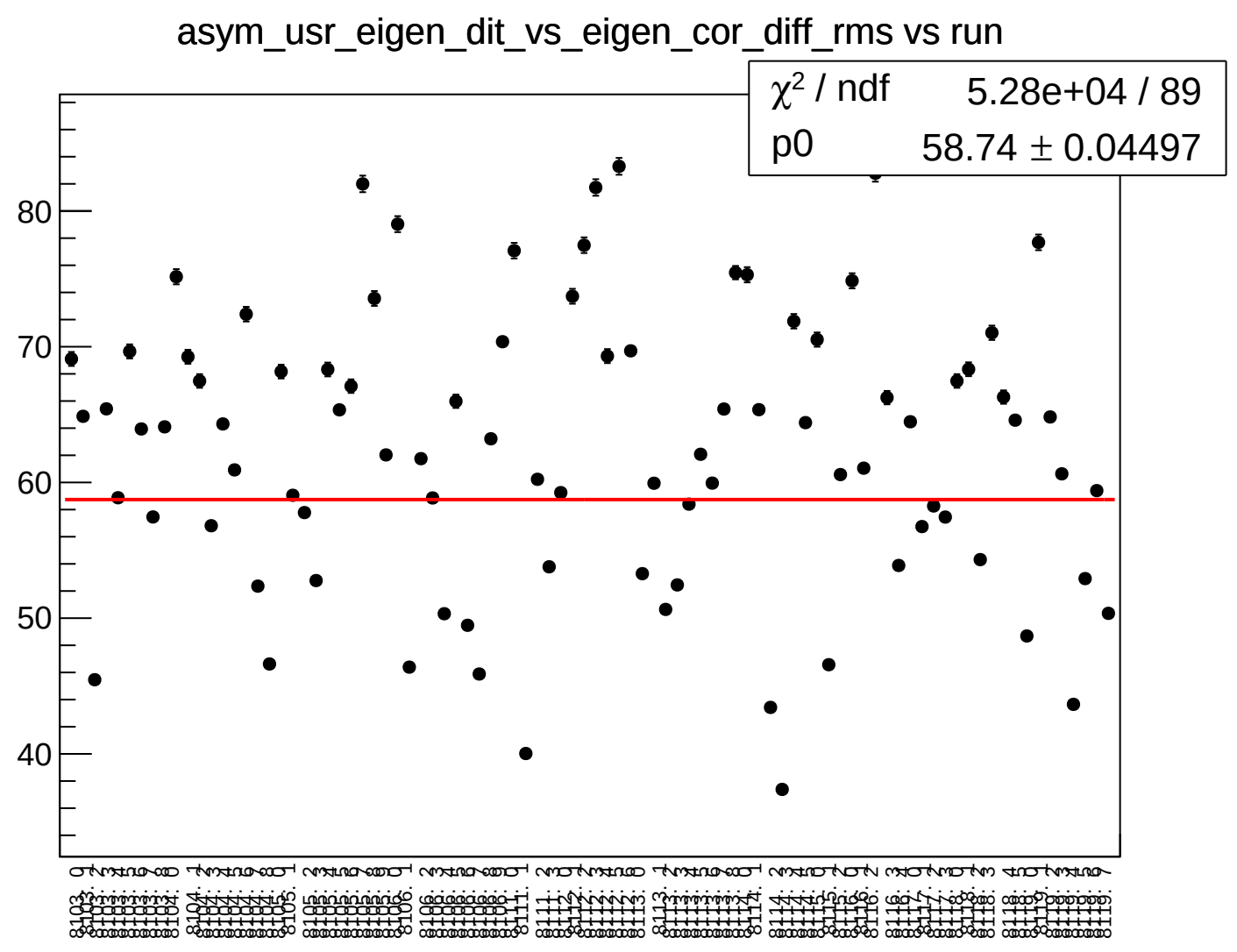

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.07 / 89
p0 0.1145 ± 0.0636
pull
Entries 90
Mean 67.02
Std Dev 0

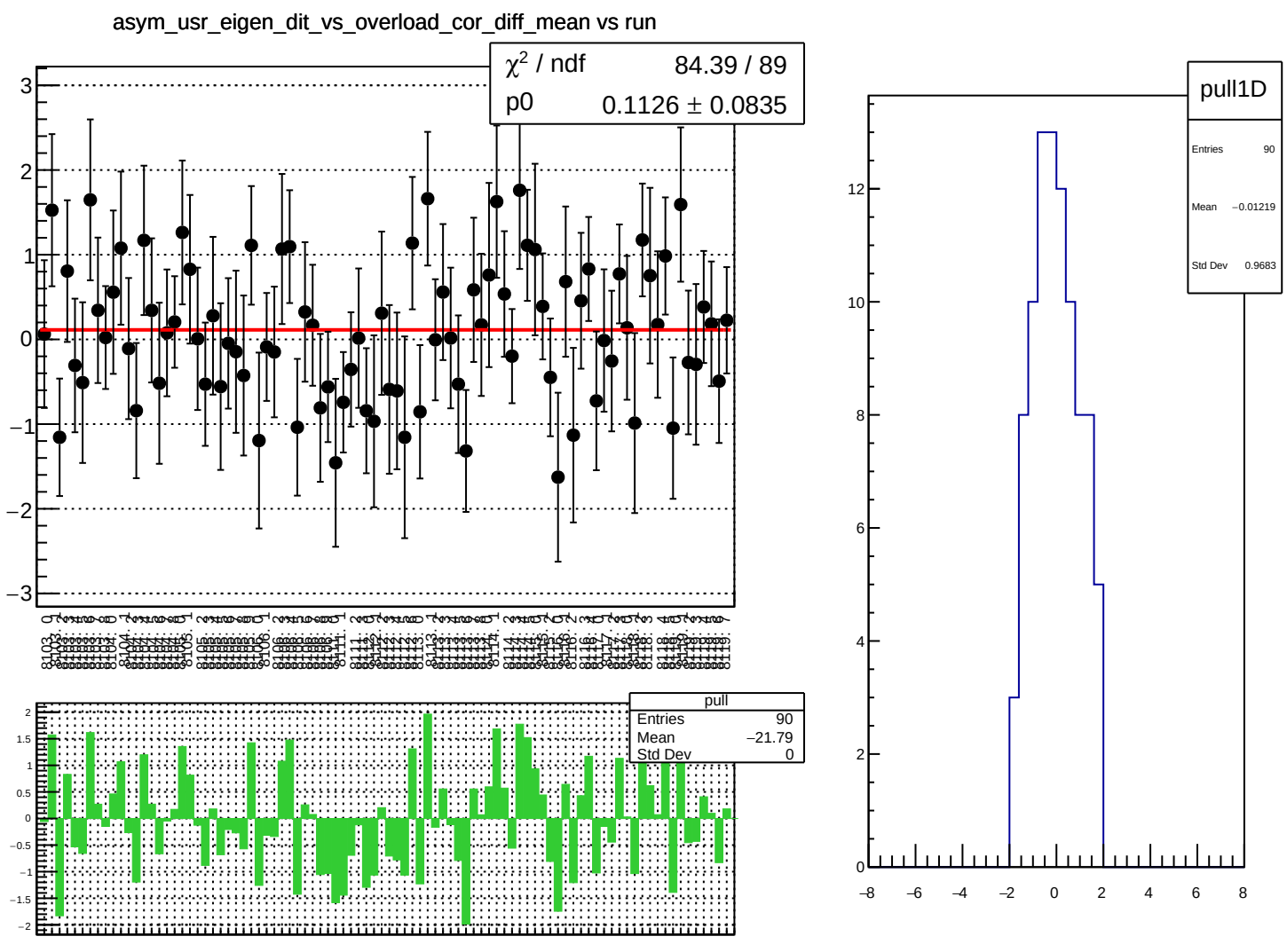

pull1D
Entries 90
Mean −0.01954
Std Dev 0.8884

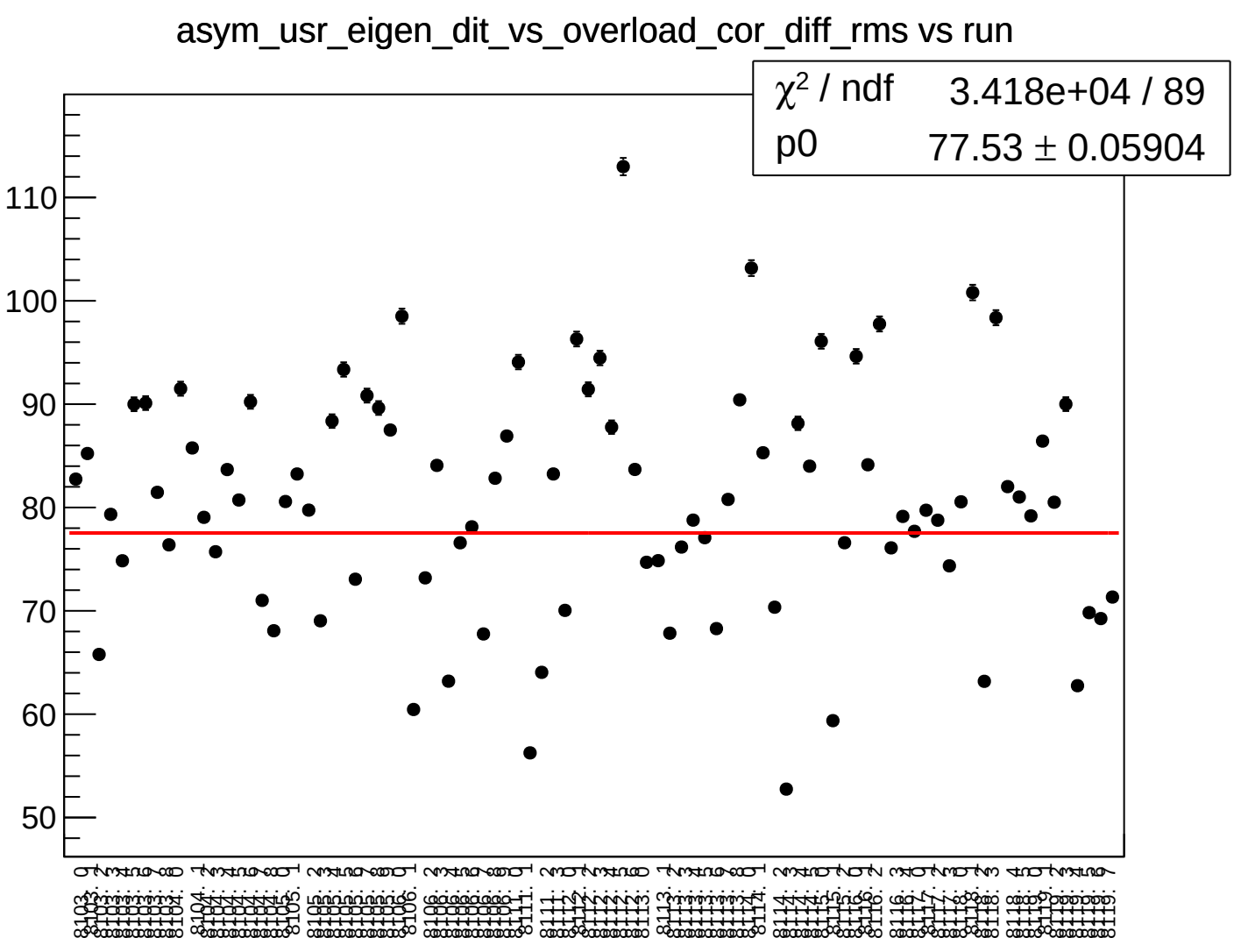

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.28e+04 / 89
p0 58.74 ± 0.04497
80
70
60
50
40

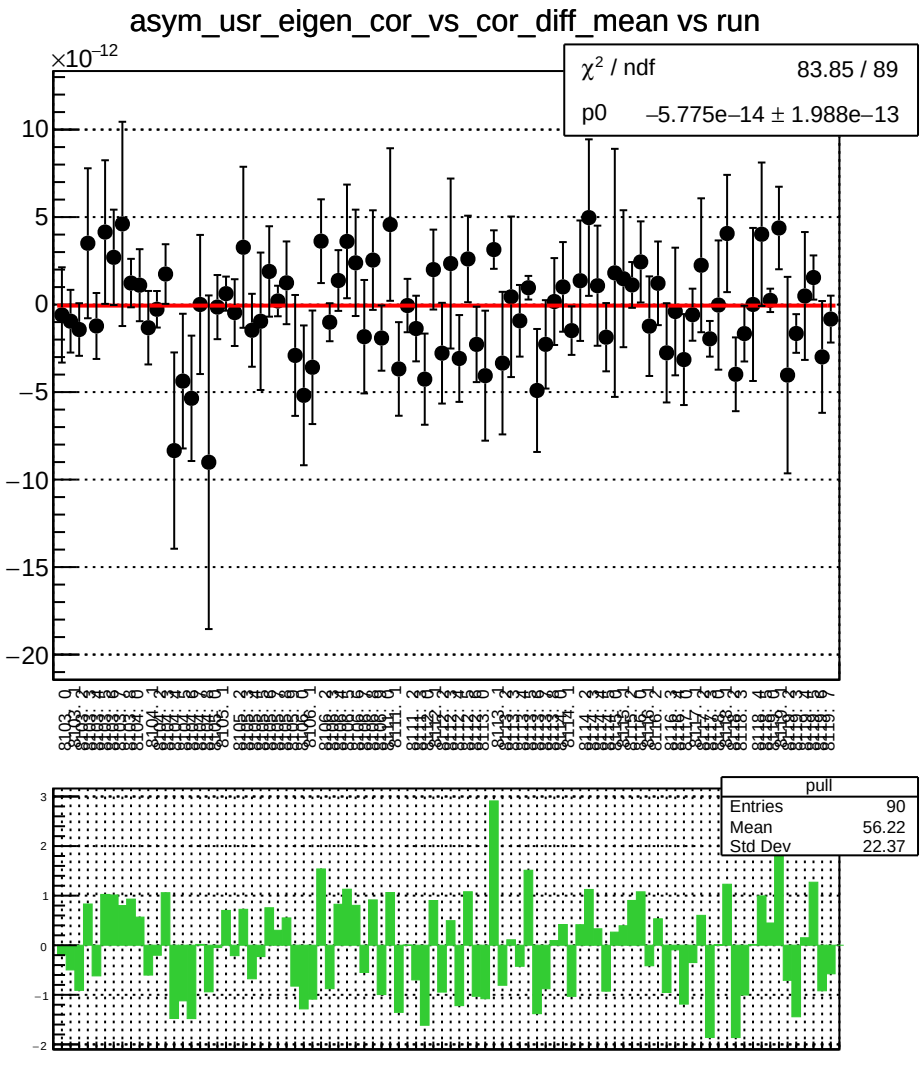

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.07 / 89
p0 0.1145 ± 0.0636
pull
Entries 90
Mean 67.02
Std Dev 0

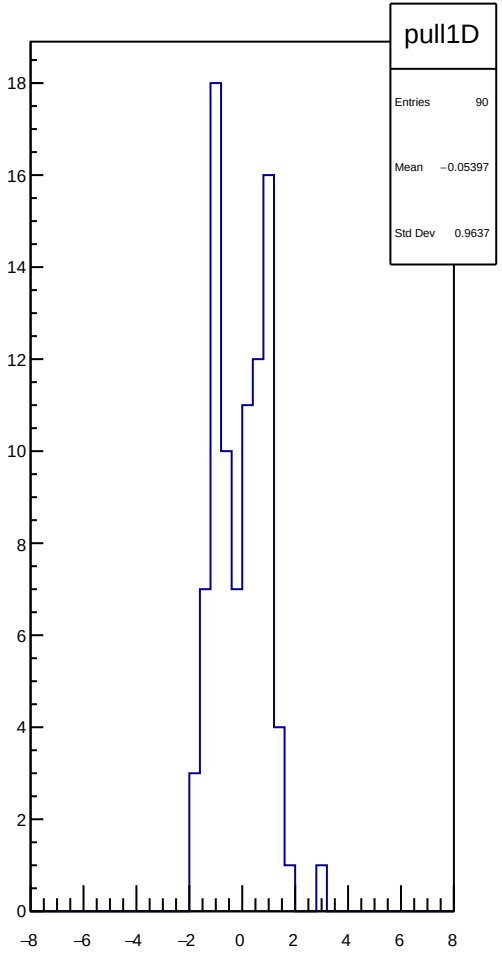

pull1D
Entries 90
Mean −0.01954
Std Dev 0.8884

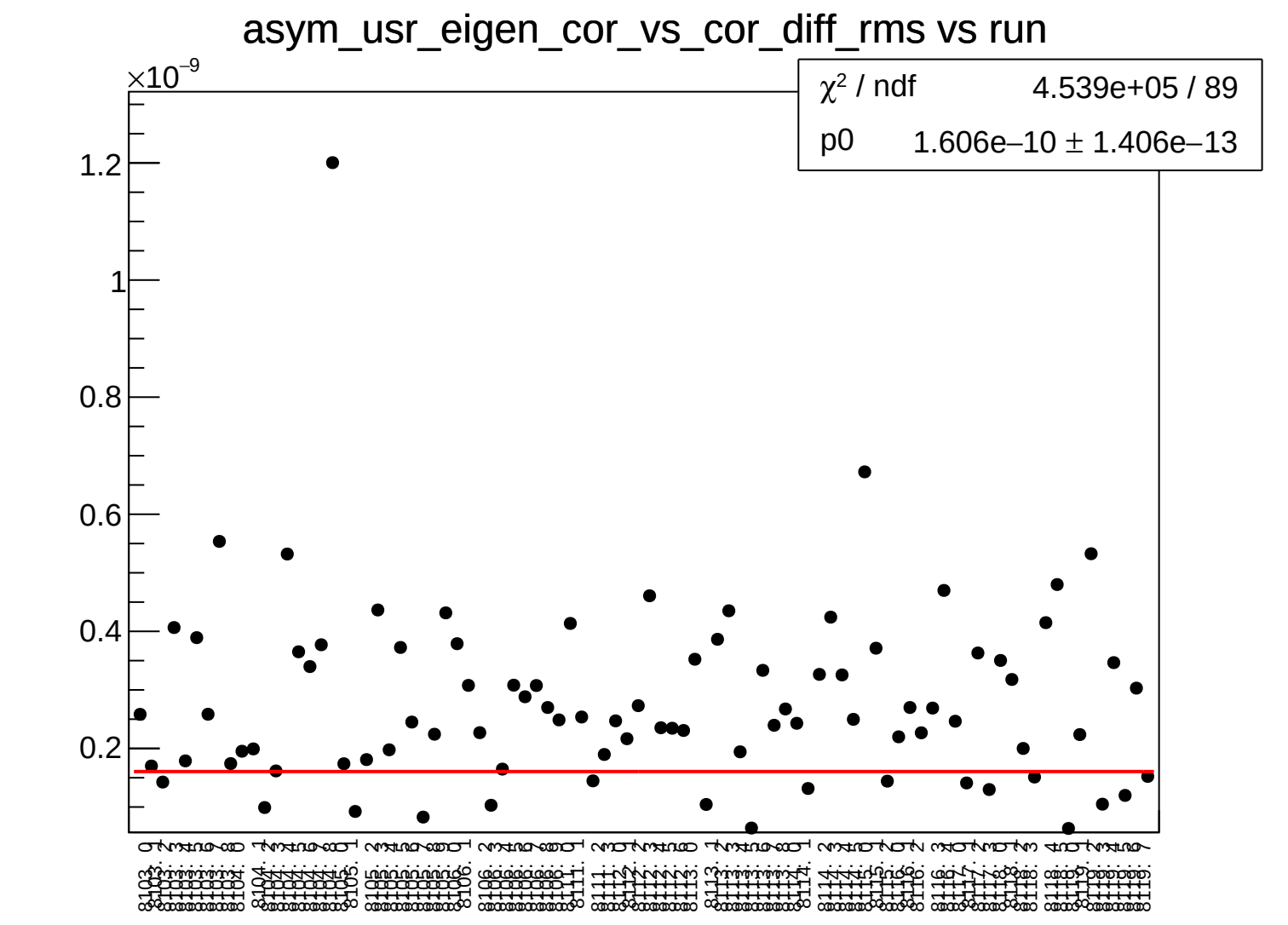

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.28e+04 / 89
p0 58.74 ± 0.04497
80
70
60
50
40

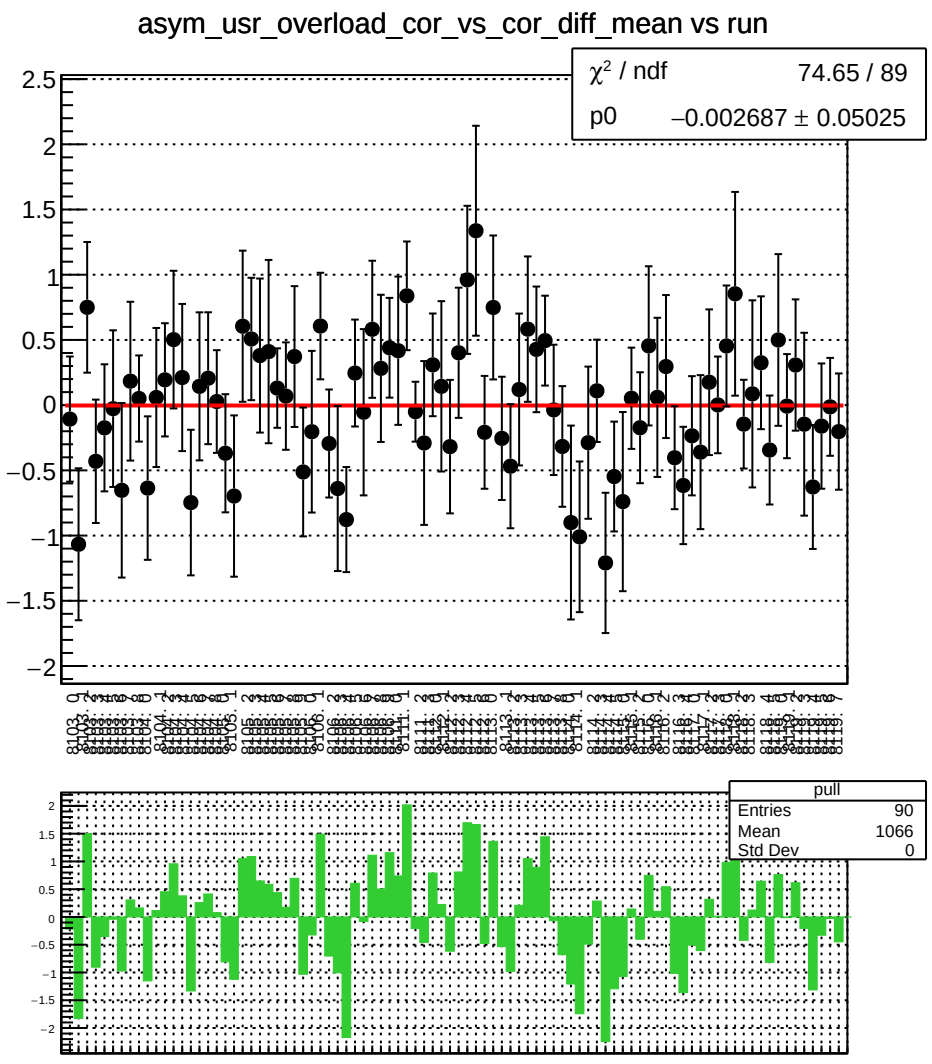

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.39 / 89
p0 0.1126 ± 0.0835
pull
Entries 90
Mean −21.79
Std Dev 0
pull1D
Entries 90
Mean −0.01219
Std Dev 0.9683

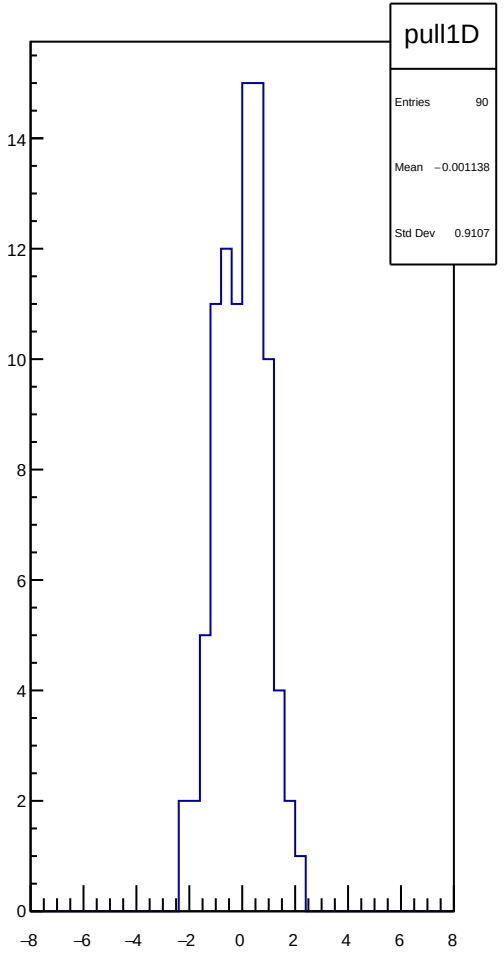

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.418e+04 / 89
p0 77.53 ± 0.05904
110
100
90
80
70
60
50

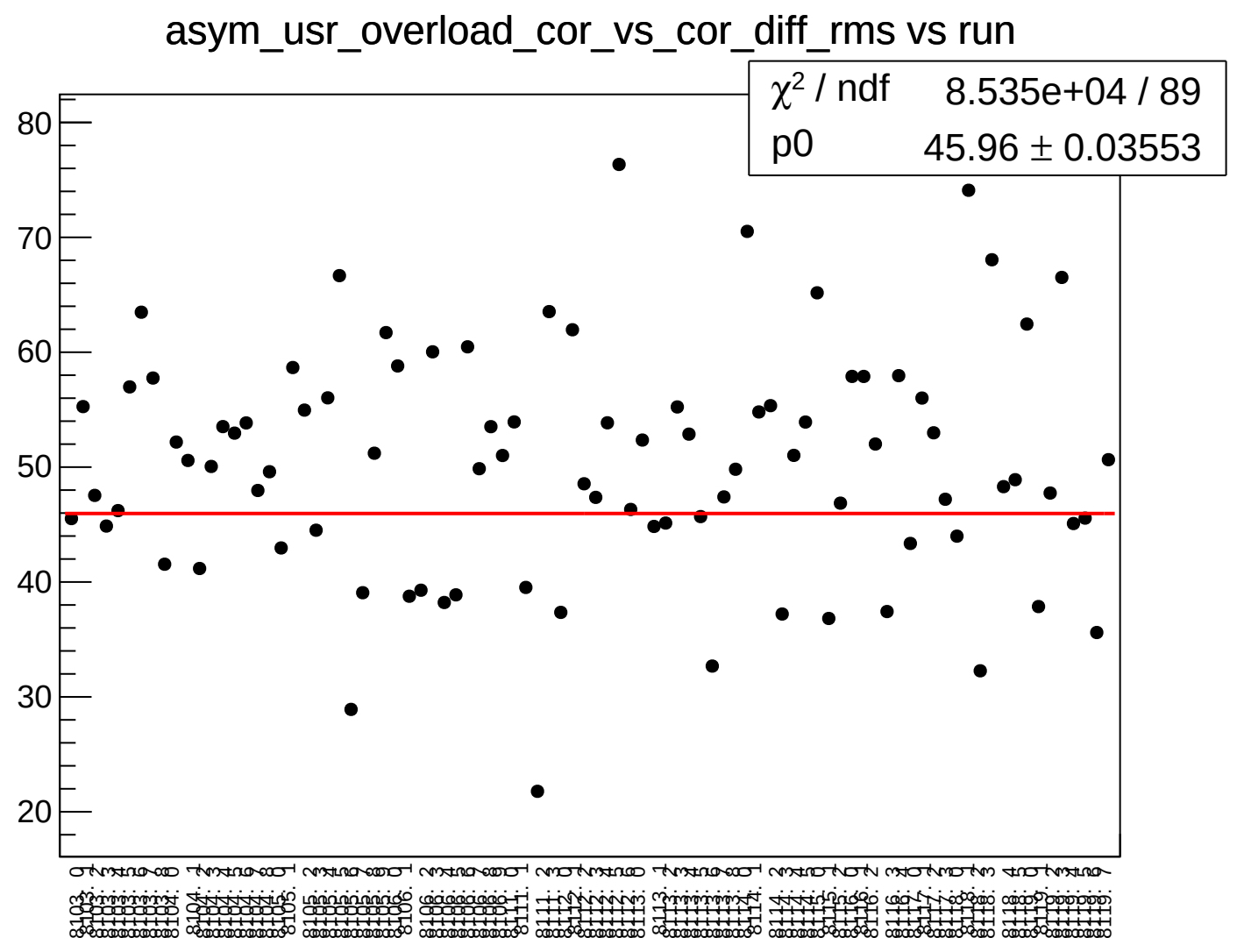

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.85 / 89
p0 −5.775e−14 ± 1.988e−13
pull
Entries 90
Mean 56.22
Std Dev 22.37

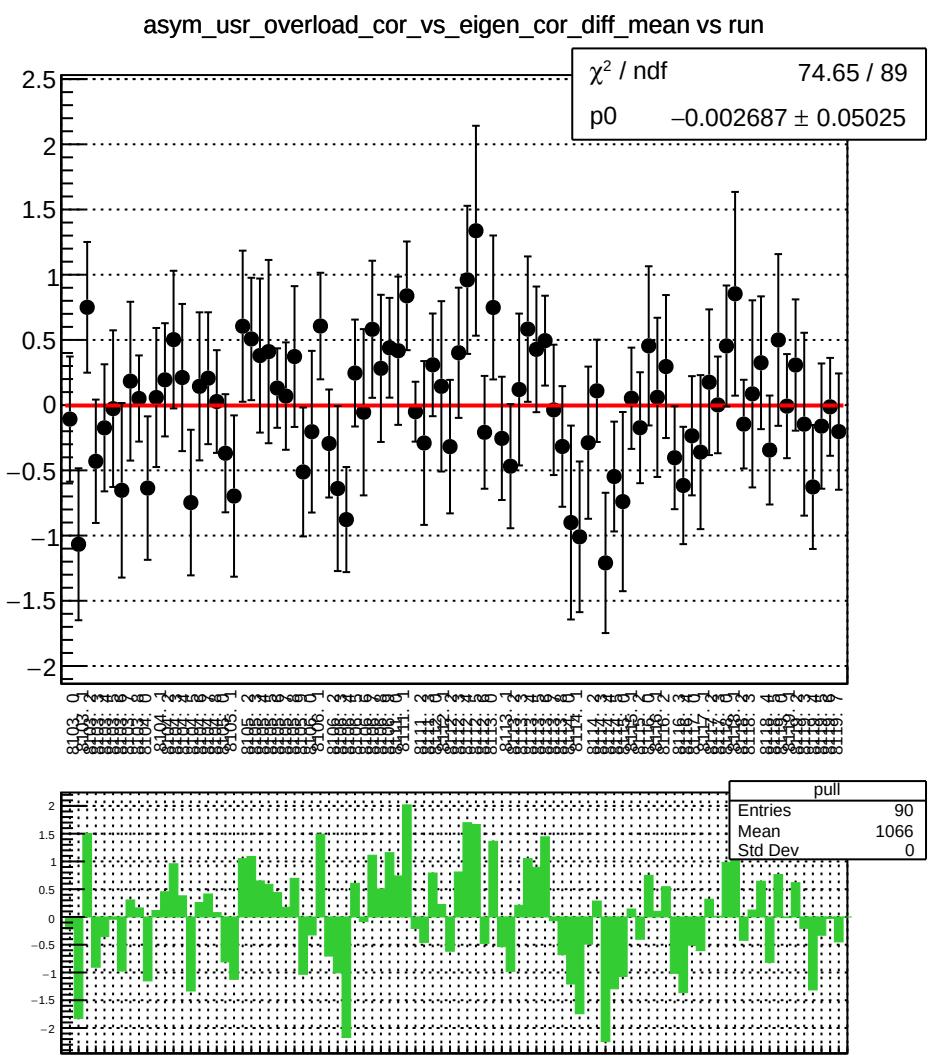

pull1D
Entries 90
Mean −0.05397
Std Dev 0.9637

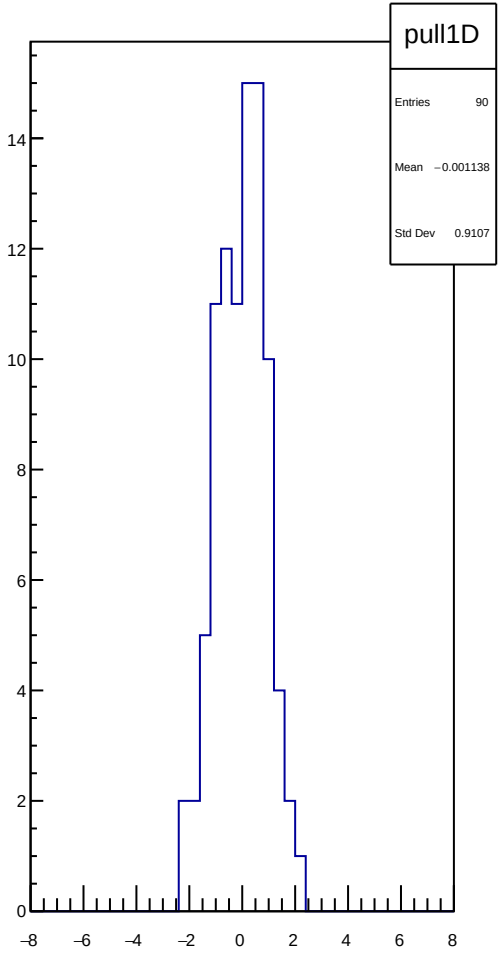

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.539e+05 / 89
p0 1.606e−10 ± 1.406e−13
1.2
1
0.8
0.6
0.4
0.2

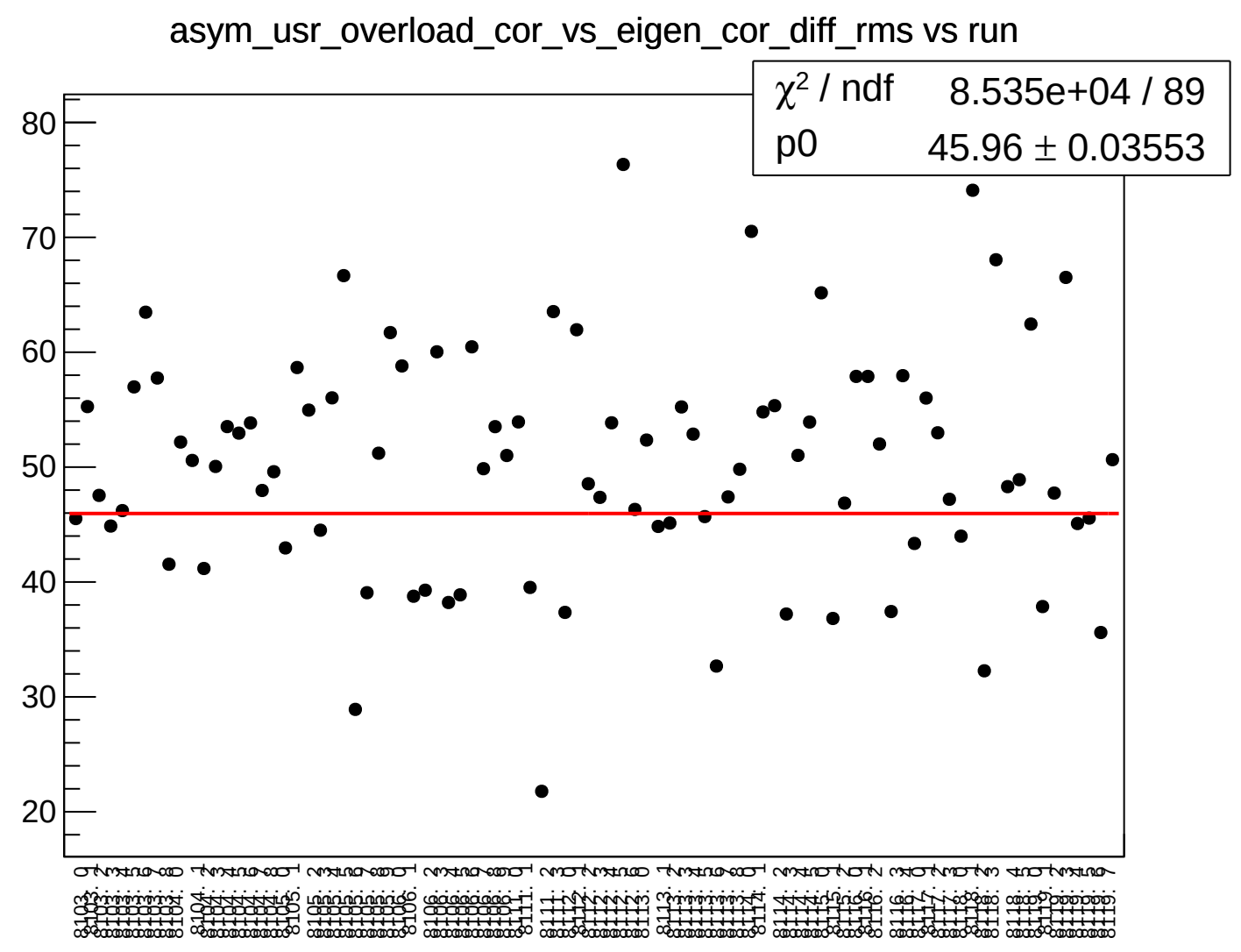

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 74.65 / 89
p0 −0.002687 ± 0.05025
pull
Entries 90
Mean 1066
Std Dev 0

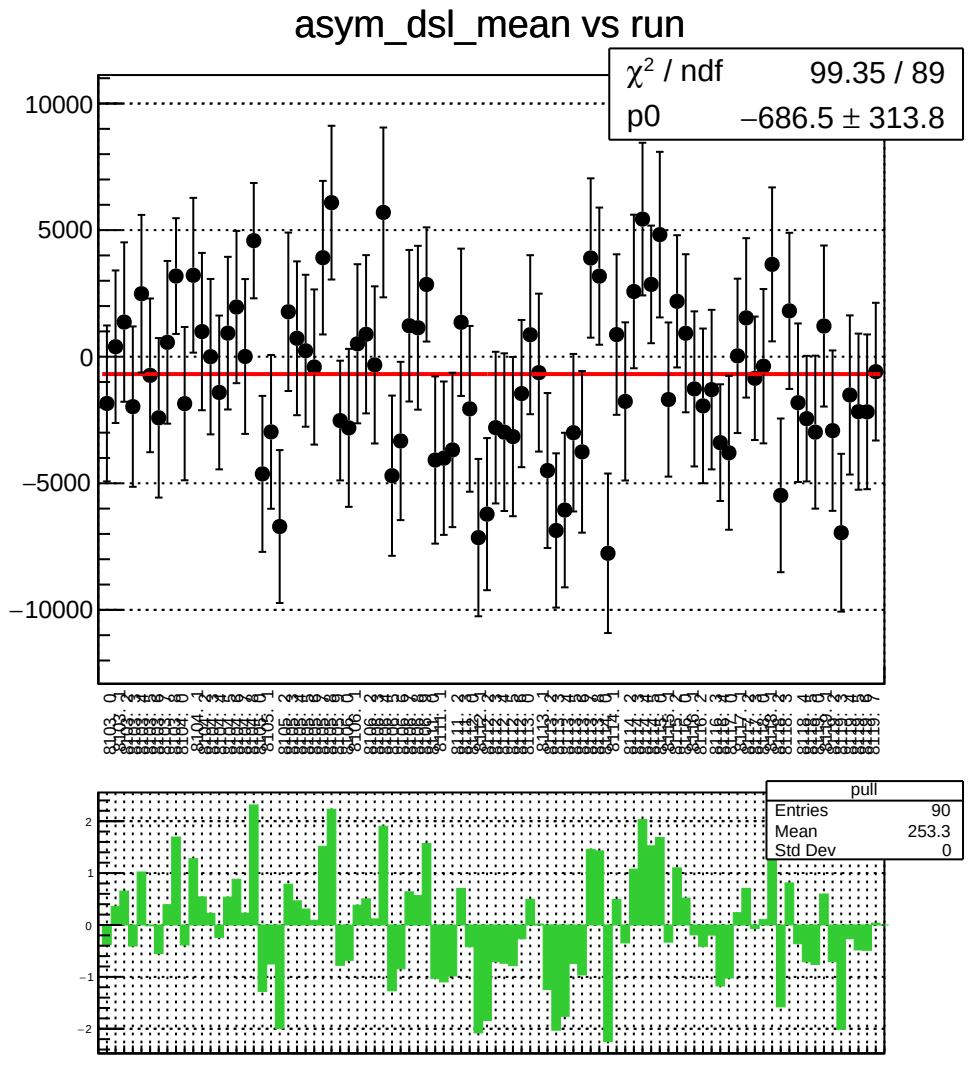

pull1D
Entries 90
Mean −0.001138
Std Dev 0.9107

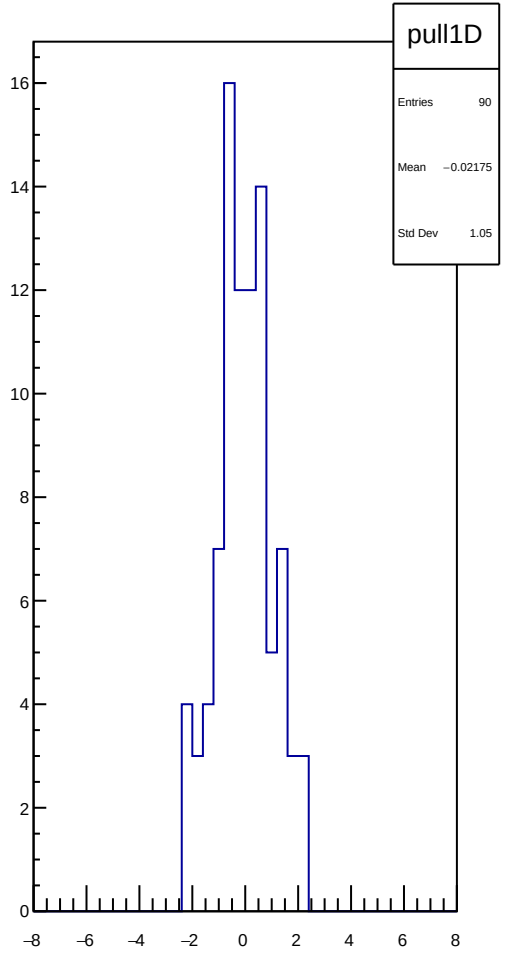

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.535e+04 / 89
p0 45.96 ± 0.03553
80
70
60
50
40
30
20

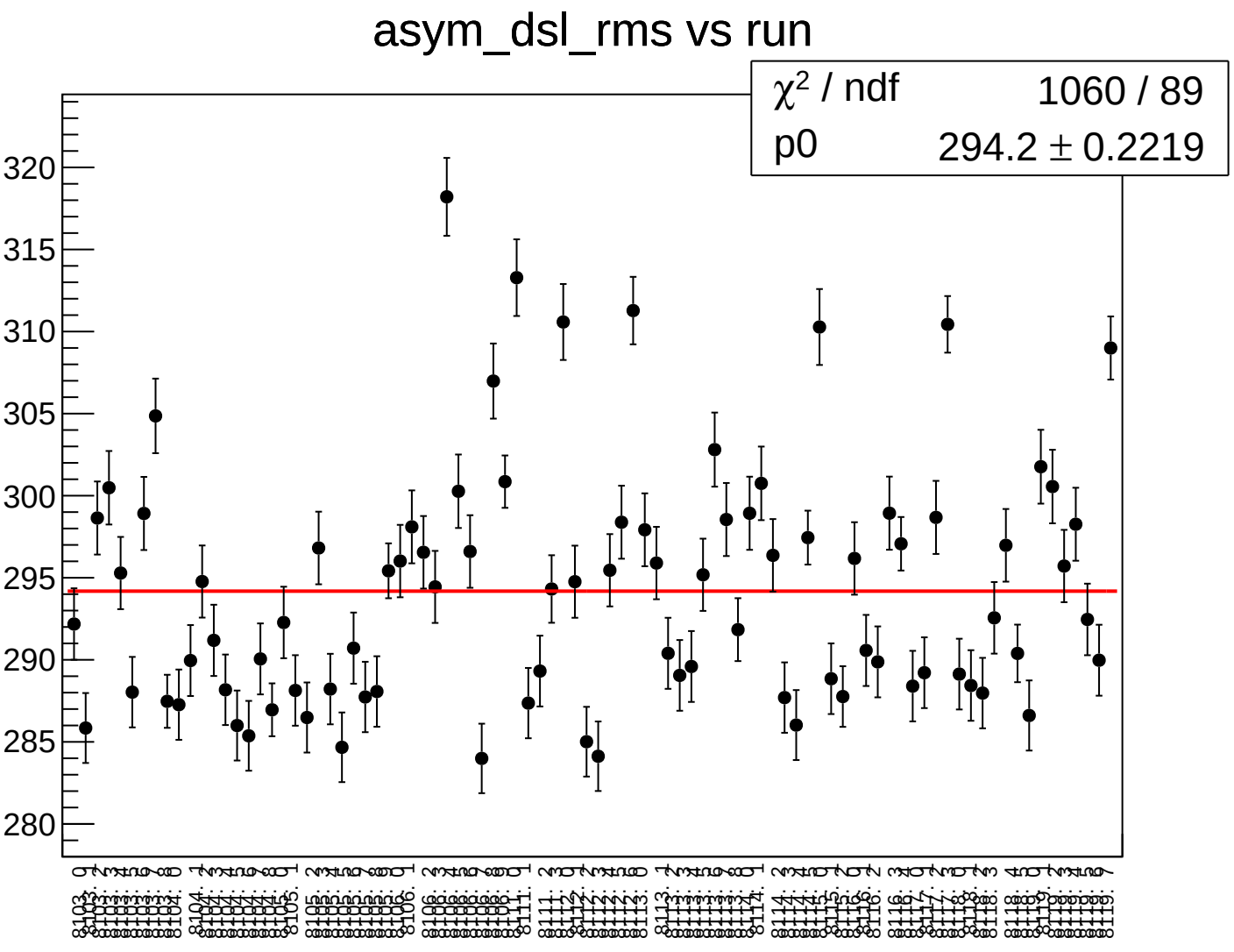

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.65 / 89
p0 −0.002687 ± 0.05025
pull
Entries 90
Mean 1066
Std Dev 0

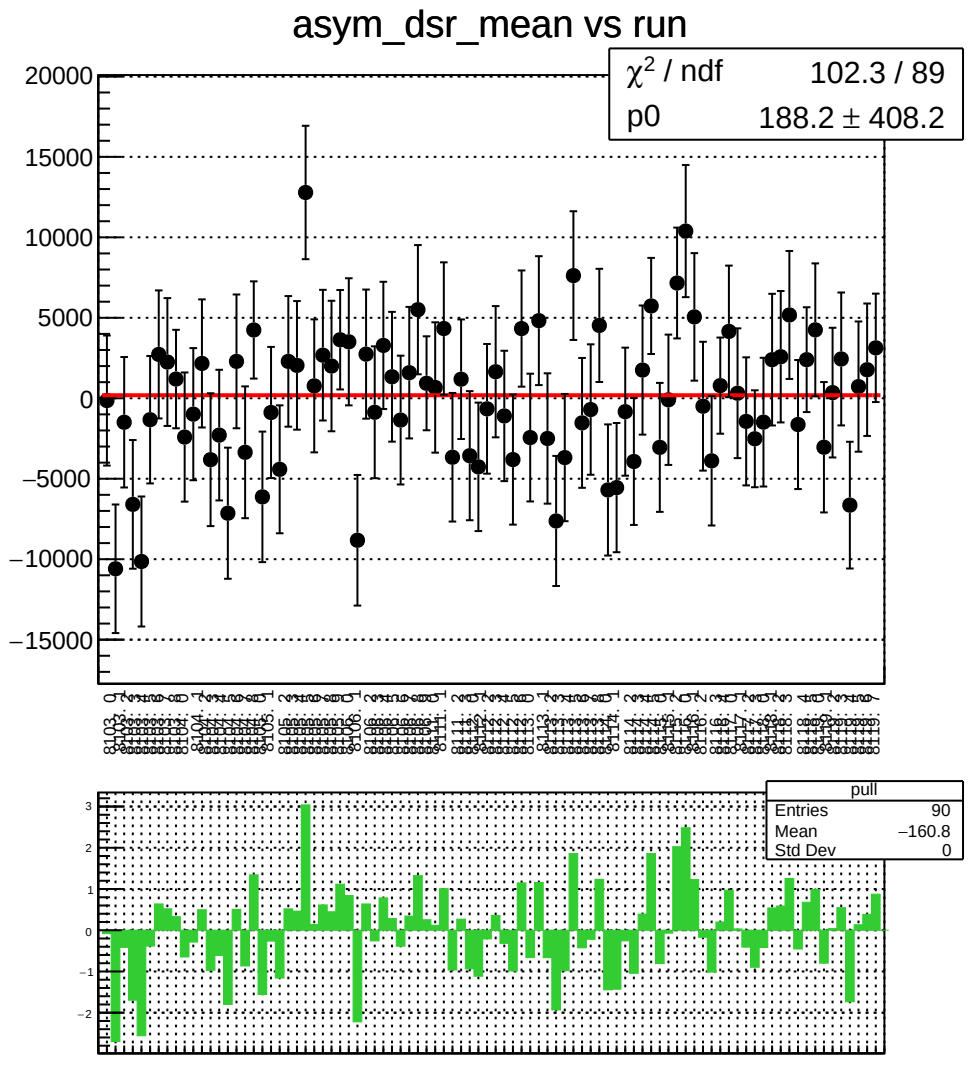

pull1D
Entries 90
Mean −0.001138
Std Dev 0.9107

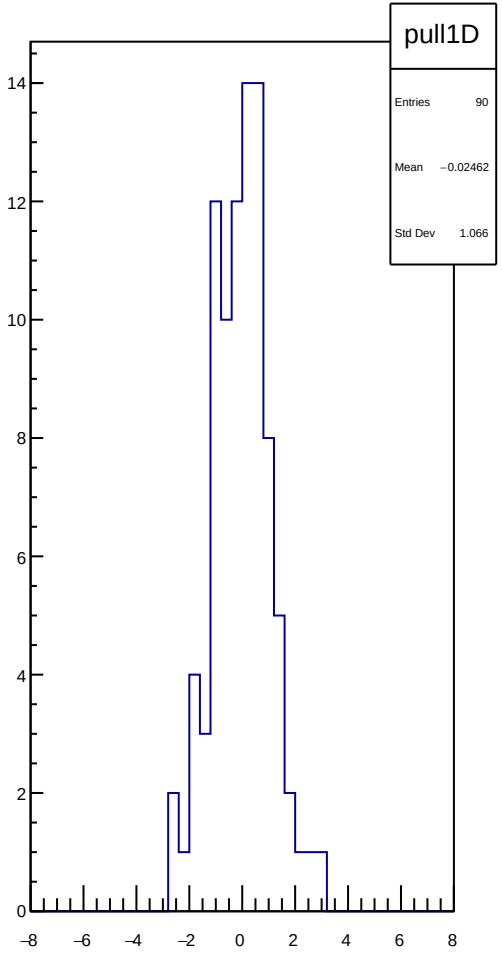

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.535e+04 / 89
p0 45.96 ± 0.03553
80
70
60
50
40
30
20

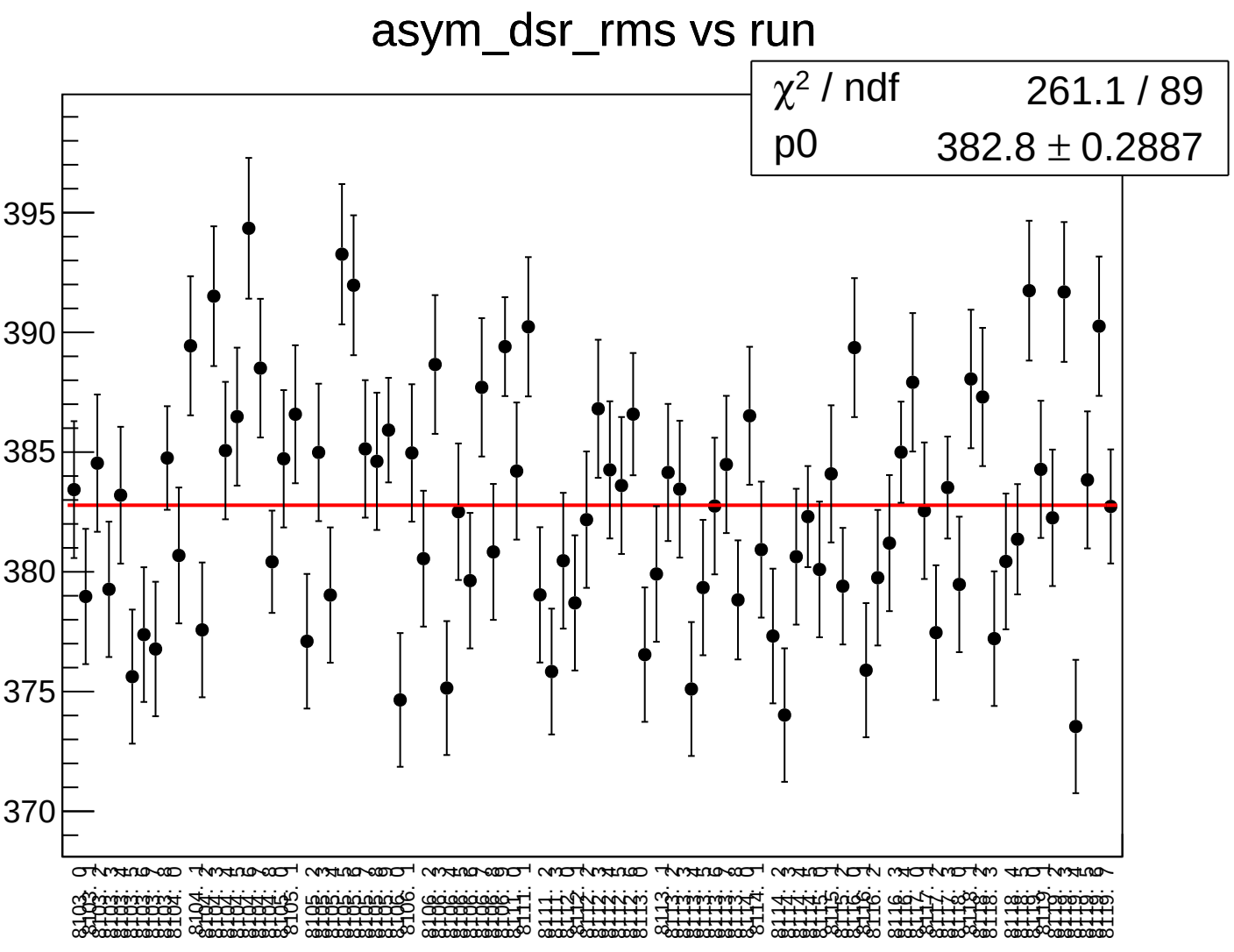

asym_dsl_mean vs run
χ² / ndf 99.35 / 89
p0 −686.5 ± 313.8
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 253.3
Std Dev 0
2
1
0
−1
−2

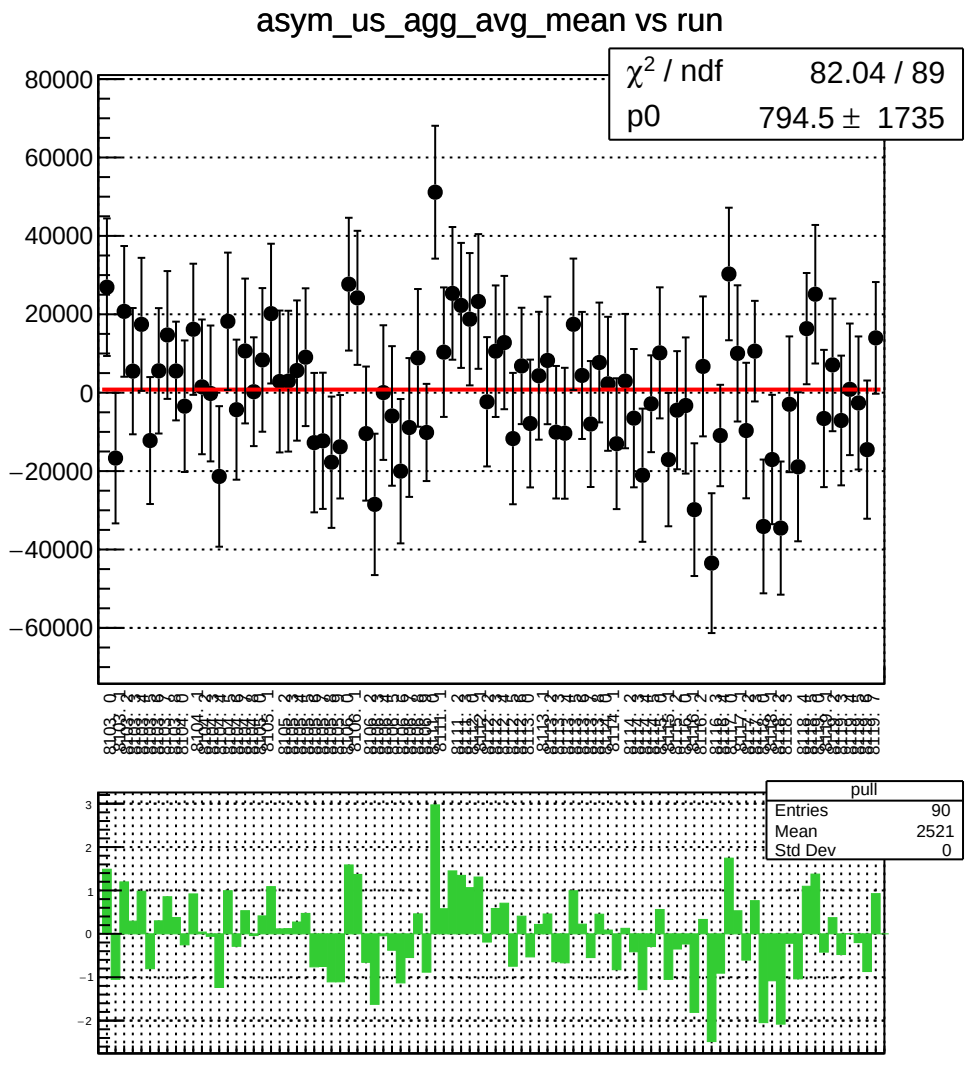

pull1D
Entries 90
Mean −0.02175
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

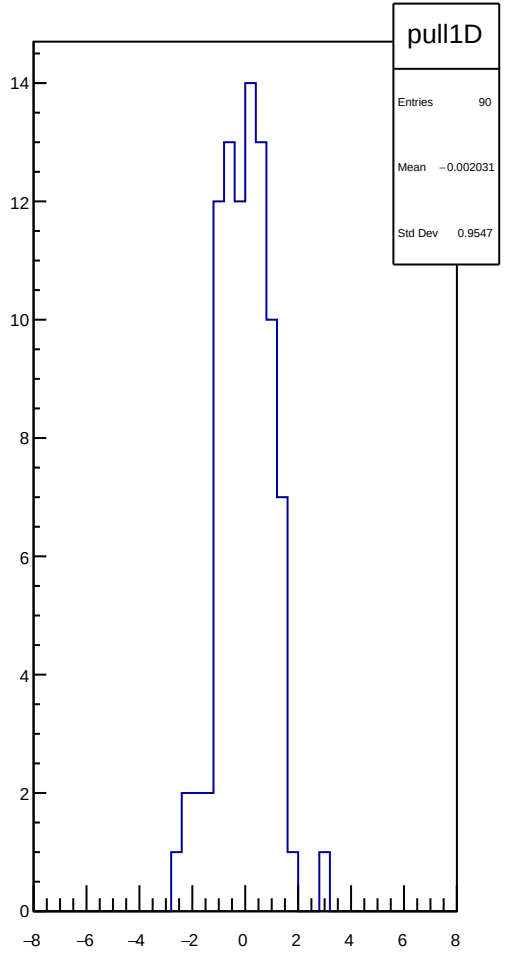

asym_dsl_rms vs run
χ² / ndf 1060 / 89
p0 294.2 ± 0.2219
320
315
310
305
300
295
290
285
280

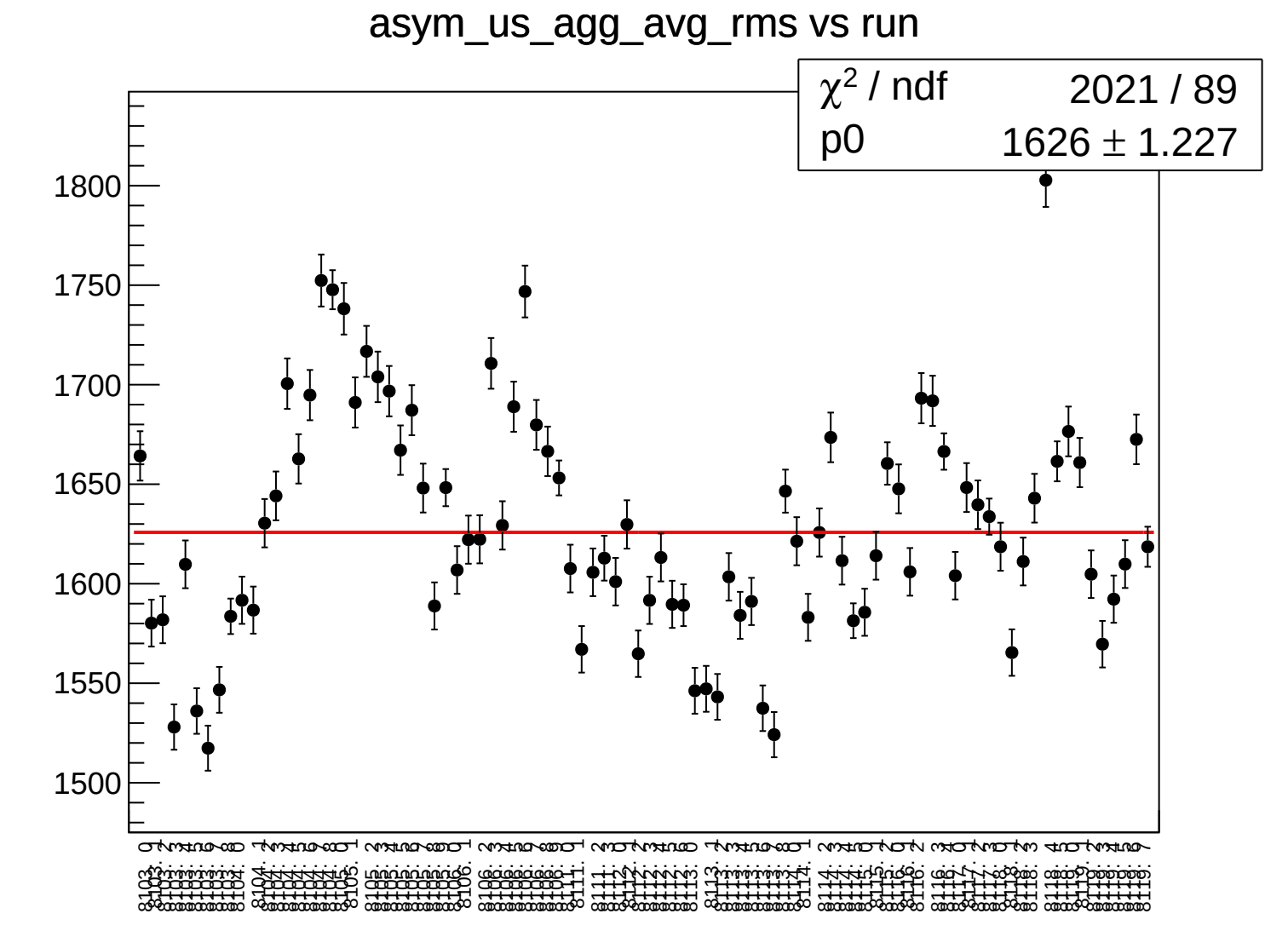

asym_dsr_mean vs run
χ^2 / ndf 102.3 / 89
p0 188.2 ± 408.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −160.8
Std Dev 0
3
2
1
0
−1
−2

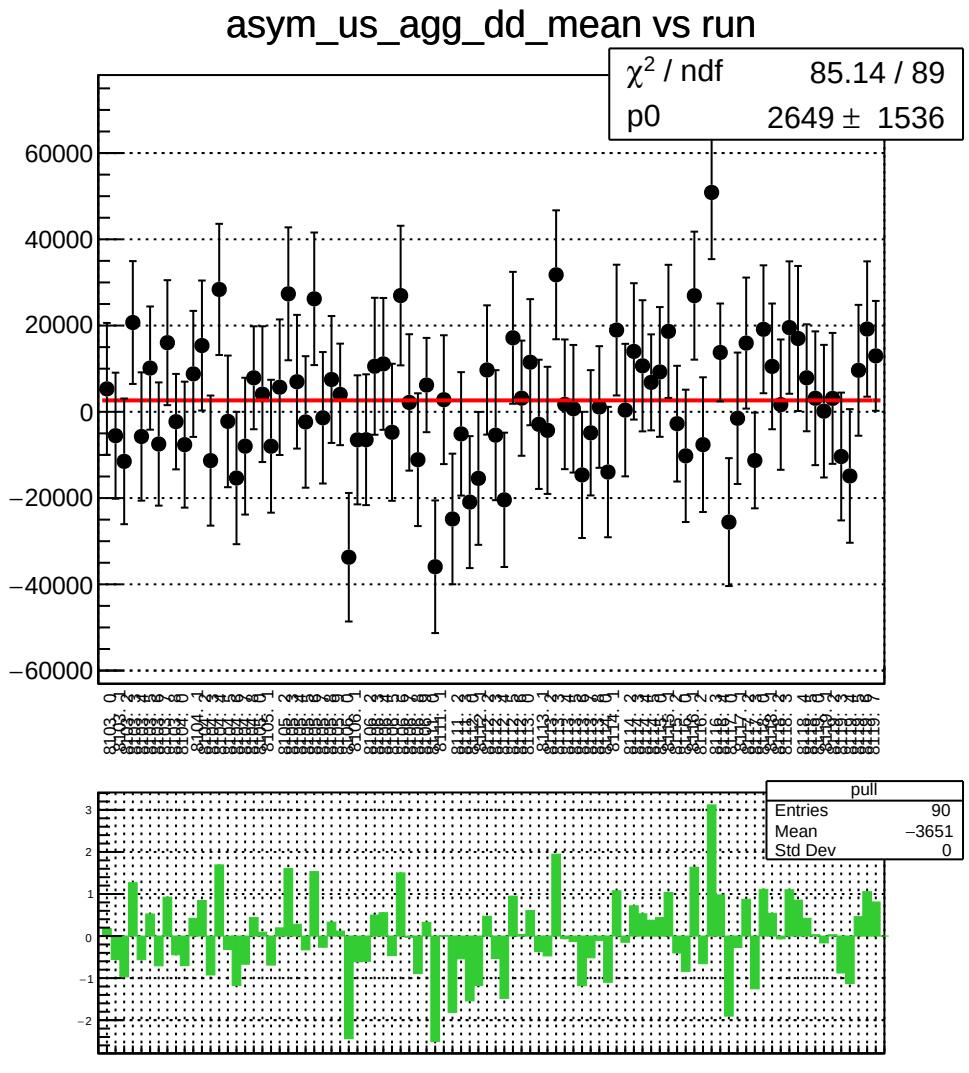

pull1D
Entries 90
Mean −0.02462
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

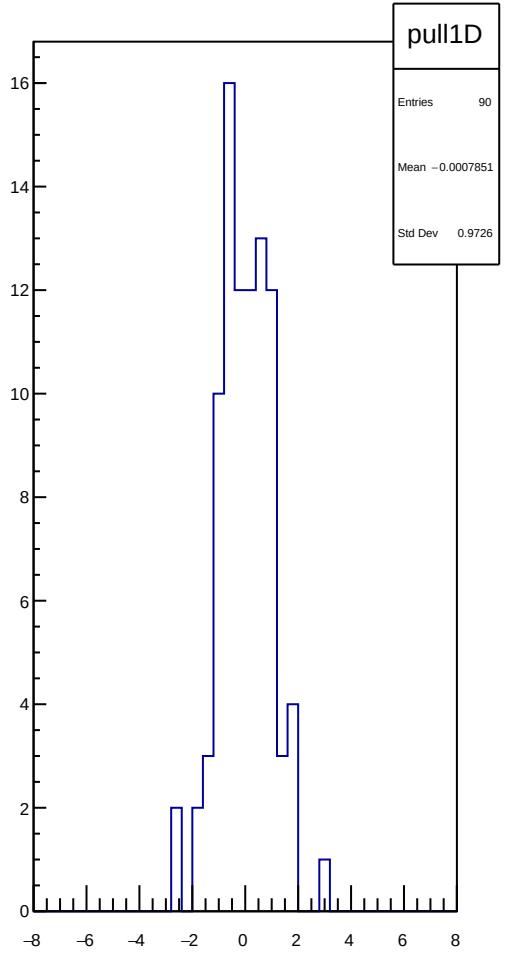

asym_dsr_rms vs run
χ^2 / ndf 261.1 / 89
p0 382.8 ± 0.2887
395
390
385
380
375
370


asym_us_agg_avg_mean vs run
χ² / ndf 82.04 / 89
p0 794.5 ± 1735
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 2521
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.002031
Std Dev 0.9547
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 2021 / 89
p0 1626 ± 1.227
1800
1750
1700
1650
1600
1550
1500


asym_us_agg_dd_mean vs run
χ² / ndf 85.14 / 89
p0 2649 ± 1536
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −3651
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.0007851
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
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−4
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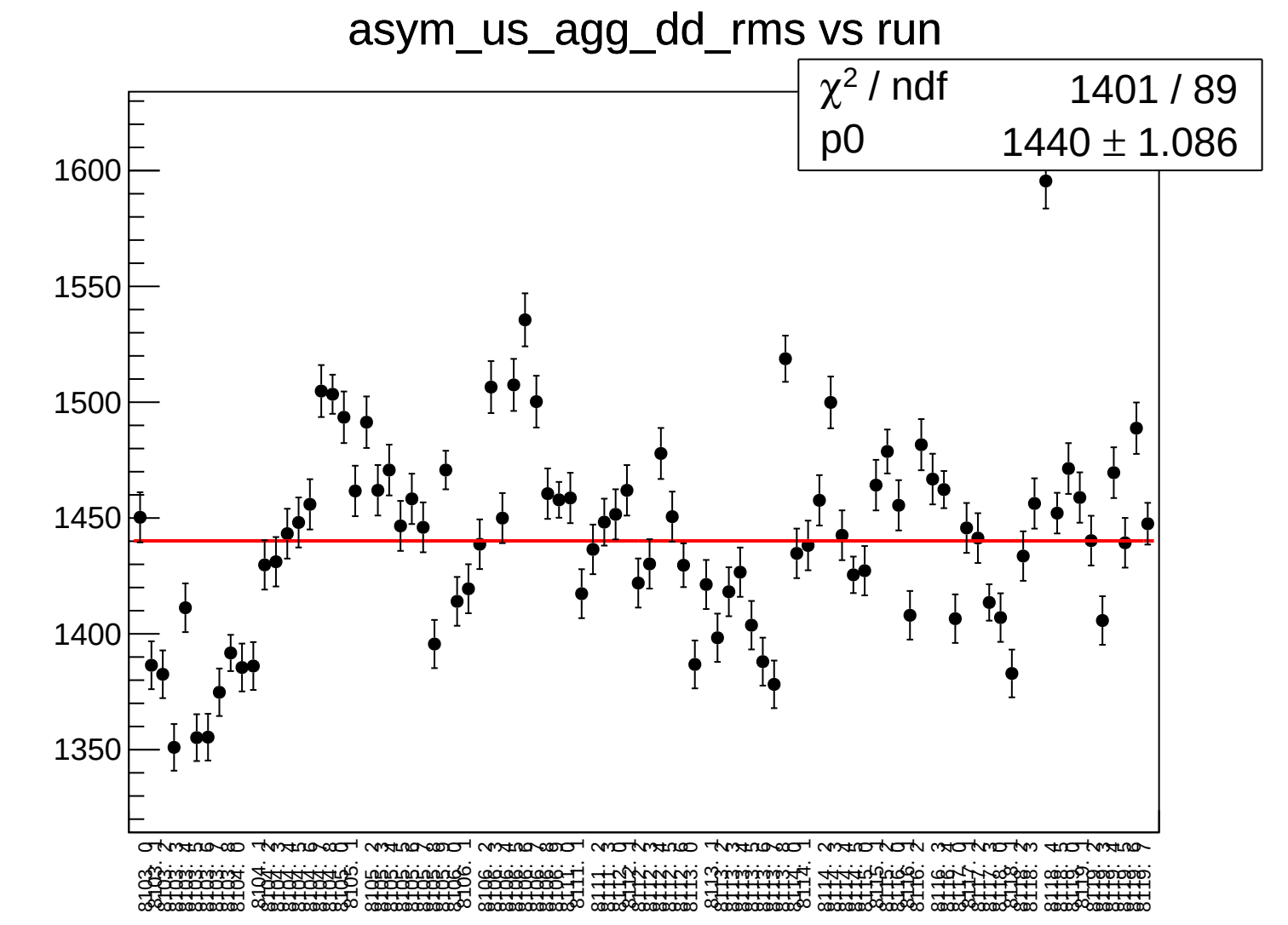
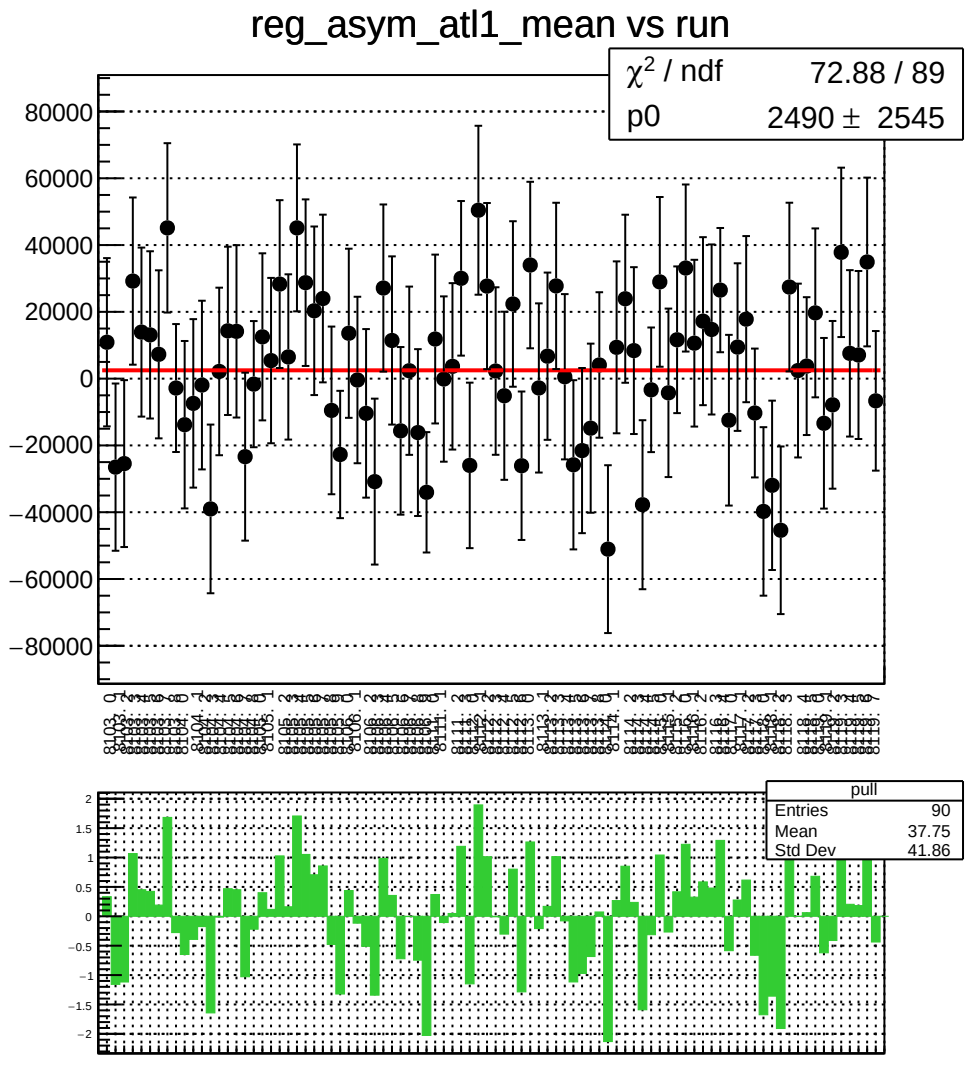
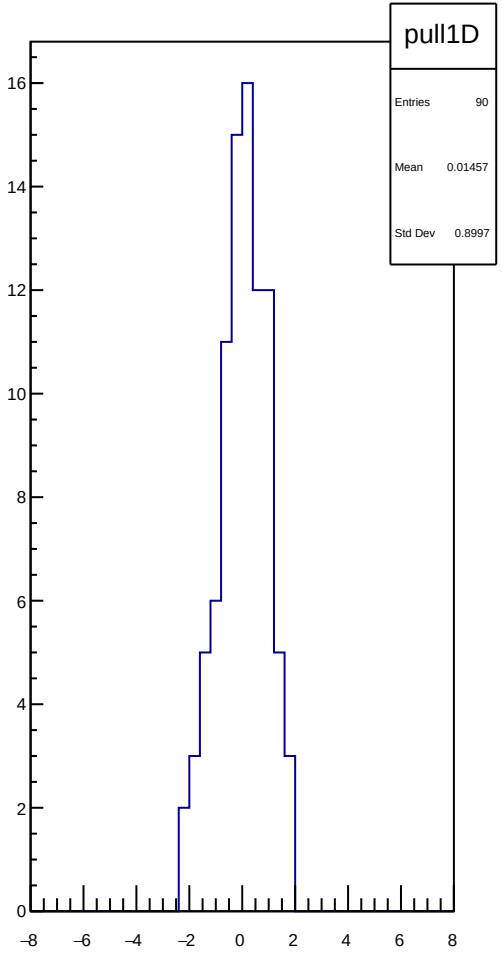
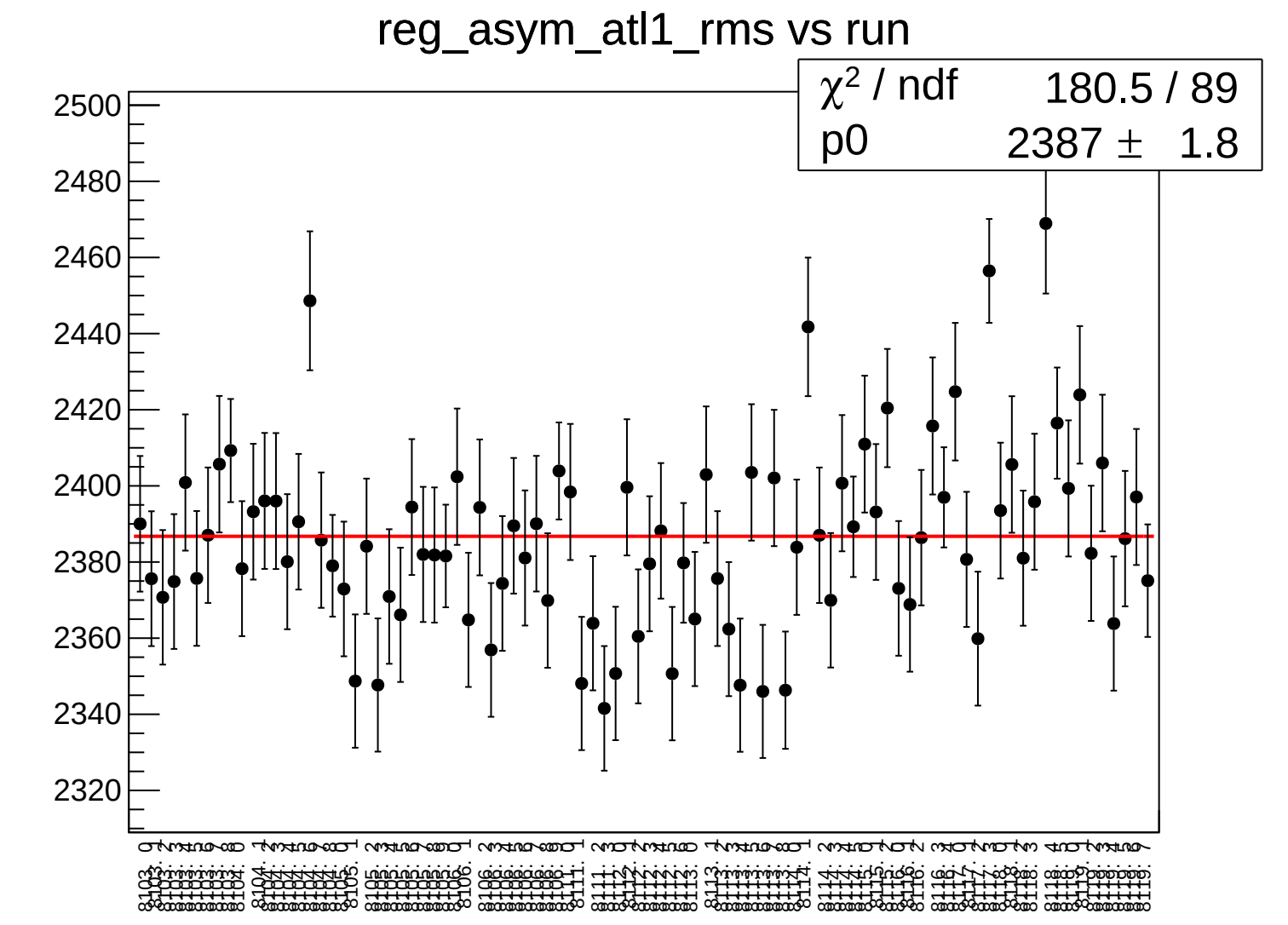
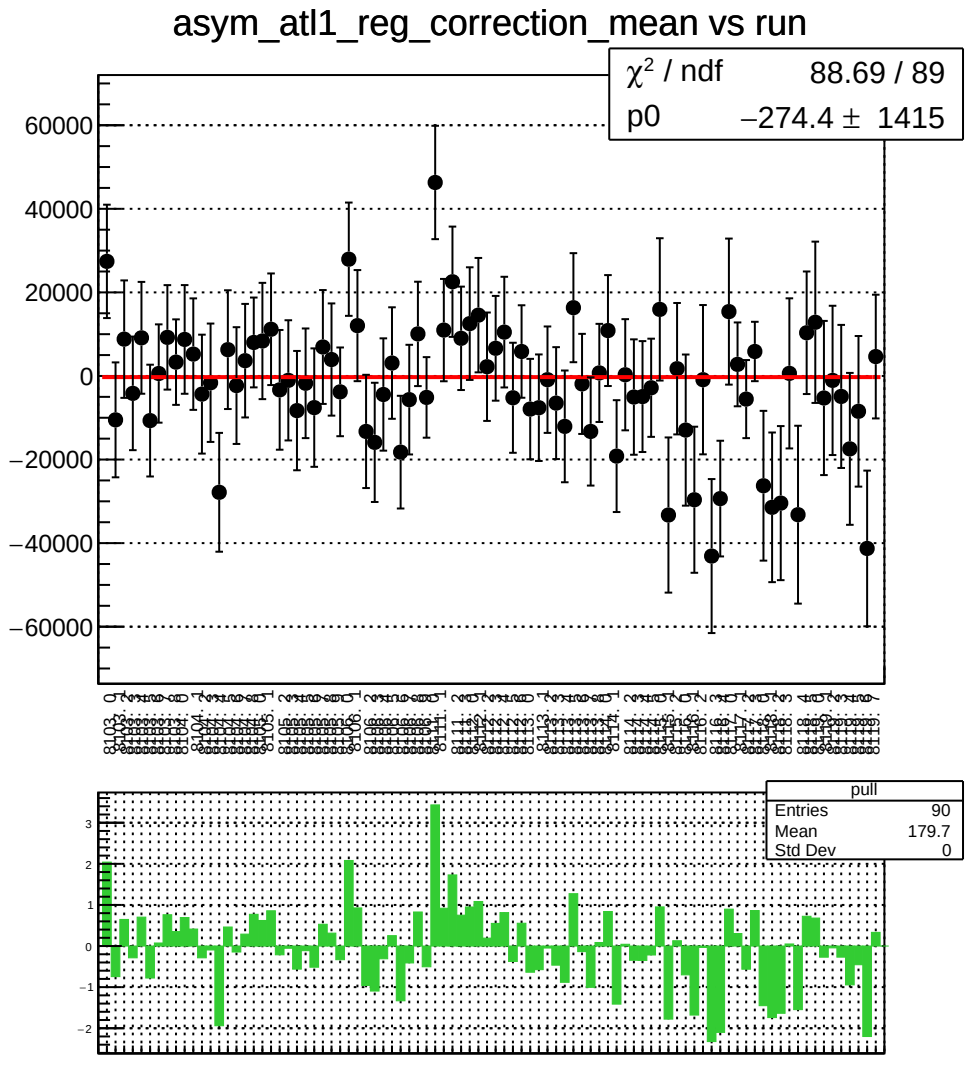
0
2
4
6
8

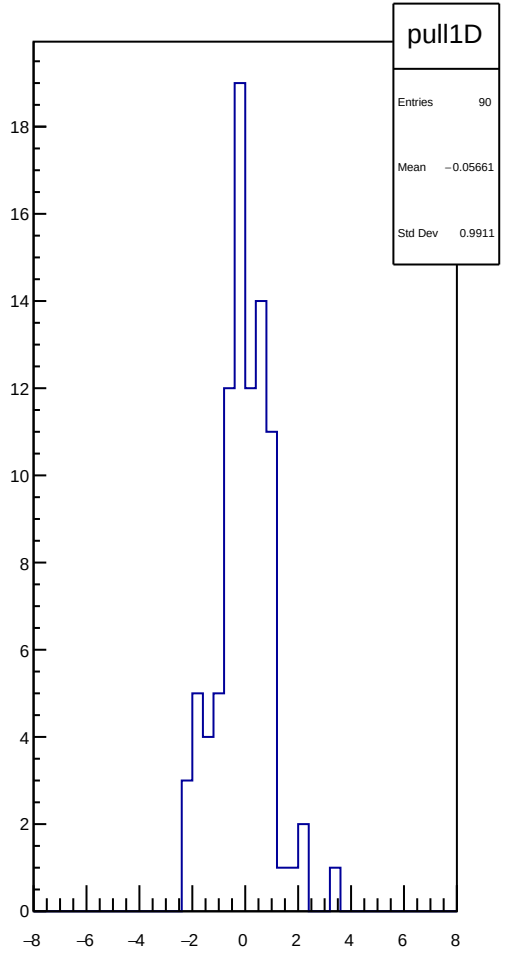

asym_us_agg_dd_rms vs run
χ² / ndf 1401 / 89
p0 1440 ± 1.086
1600
1550
1500
1450
1400
1350

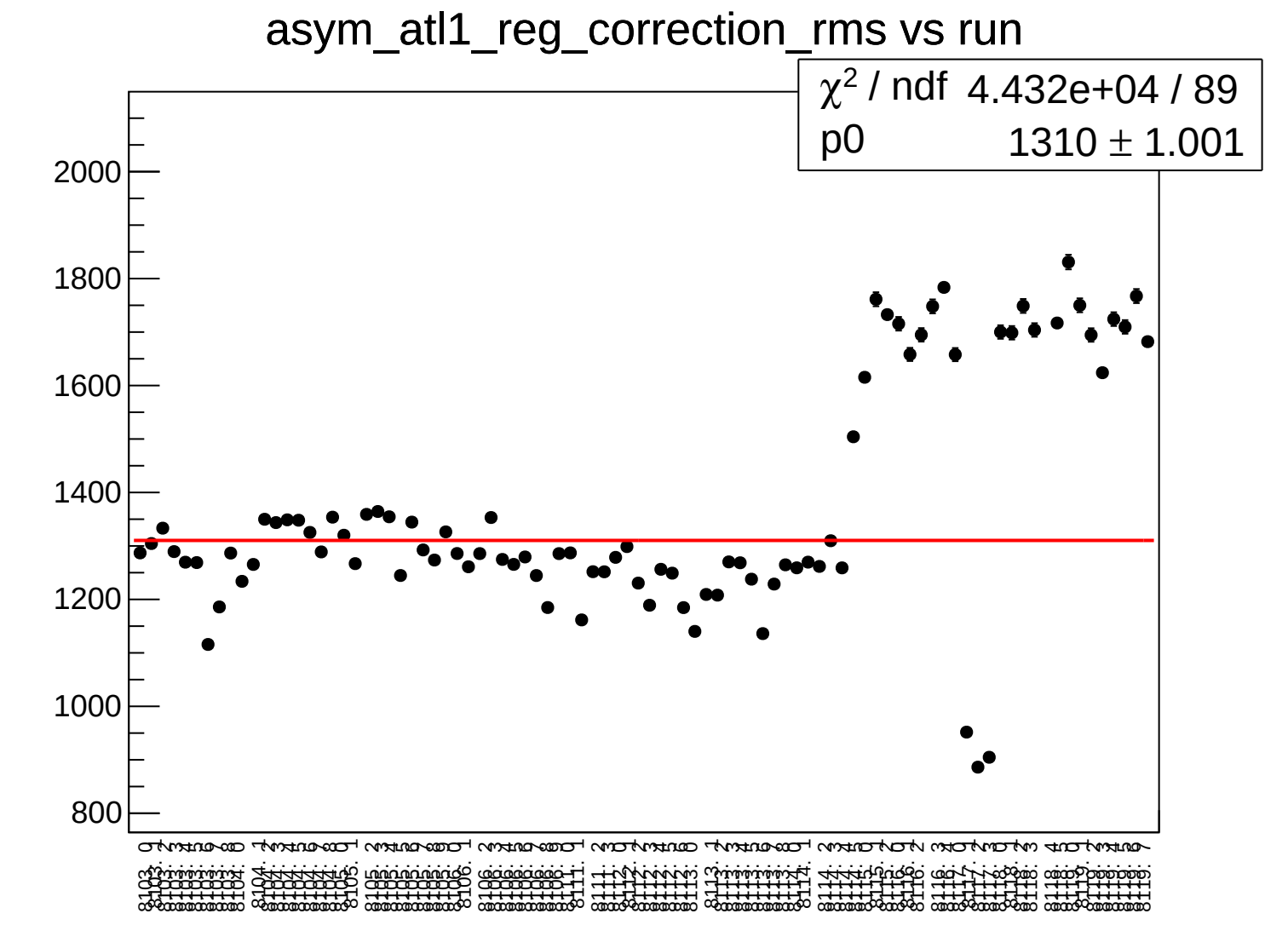

reg_asym_atl1_mean vs run
χ² / ndf 72.88 / 89
p0 2490 ± 2545
pull
Entries 90
Mean 37.75
Std Dev 41.86

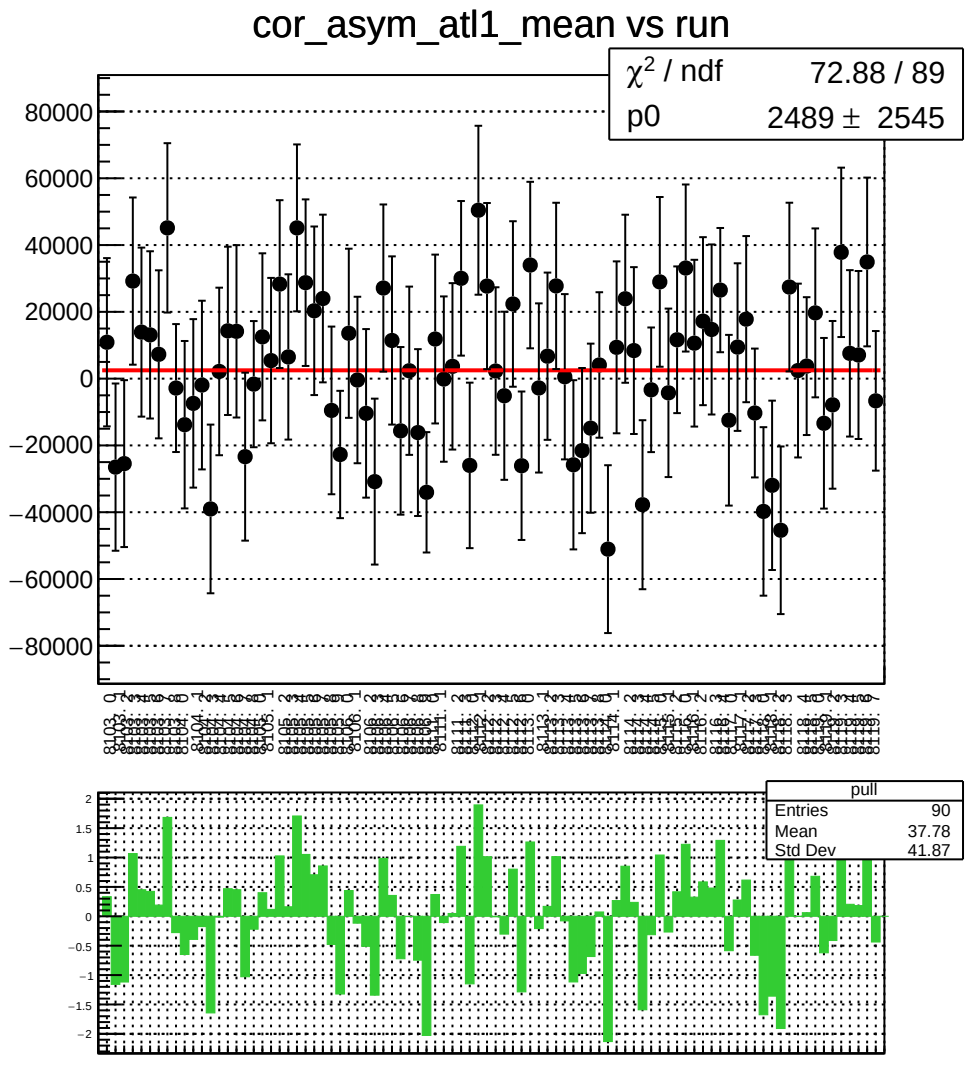

pull1D
Entries 90
Mean 0.01457
Std Dev 0.8997

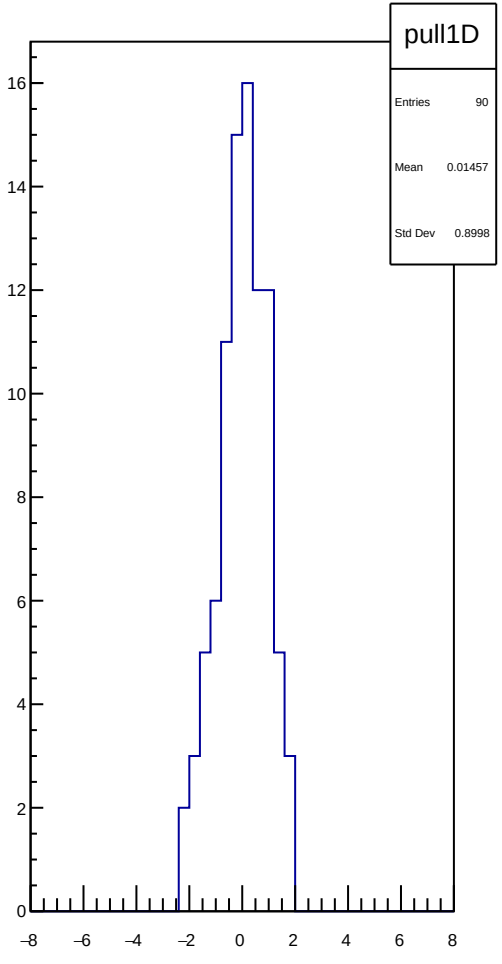

reg_asym_atl1_rms vs run
χ² / ndf 180.5 / 89
p0 2387 ± 1.8
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

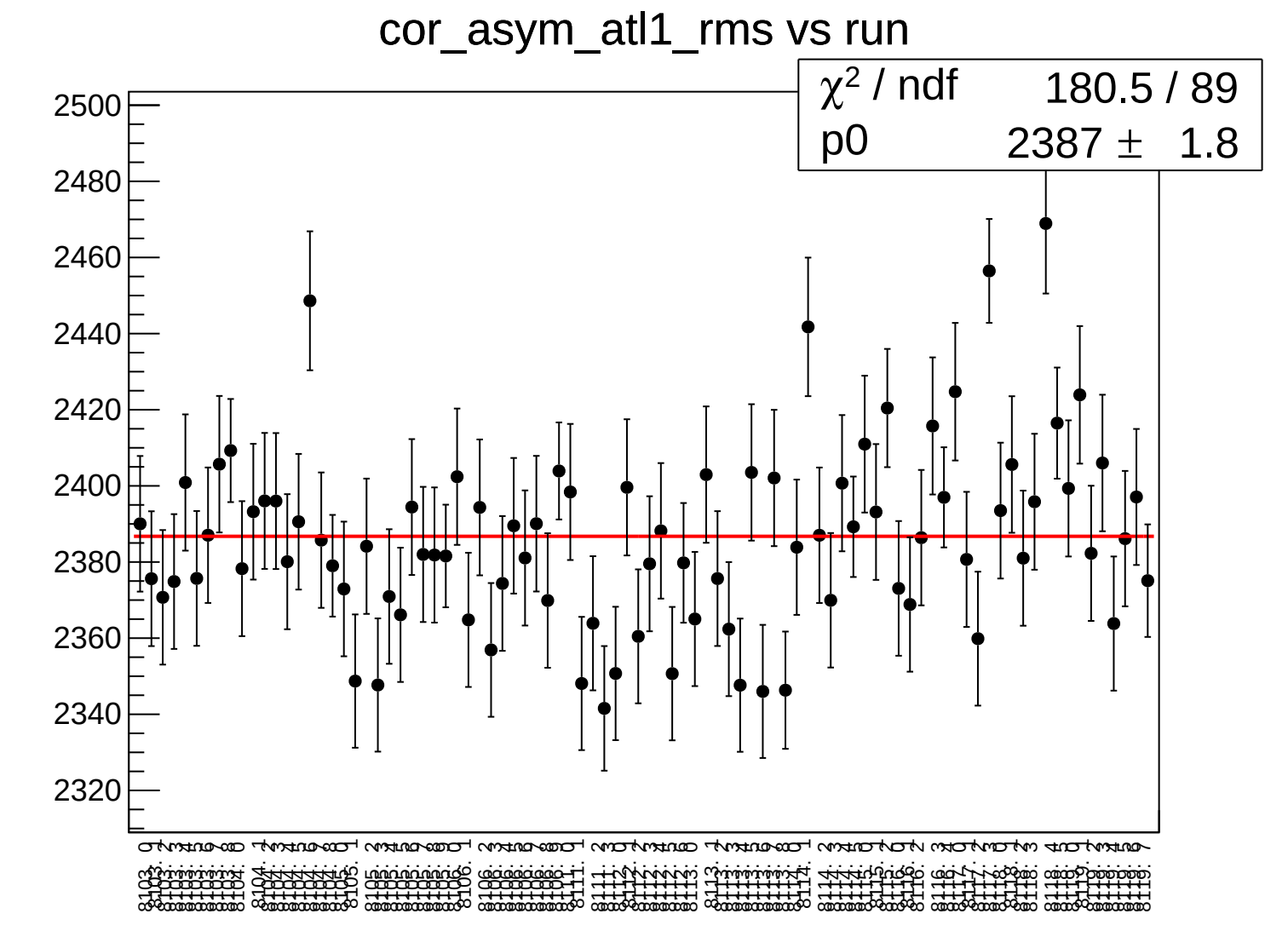

asym_atl1_reg_correction_mean vs run
χ² / ndf 88.69 / 89
p0 −274.4 ± 1415
pull
Entries 90
Mean 179.7
Std Dev 0

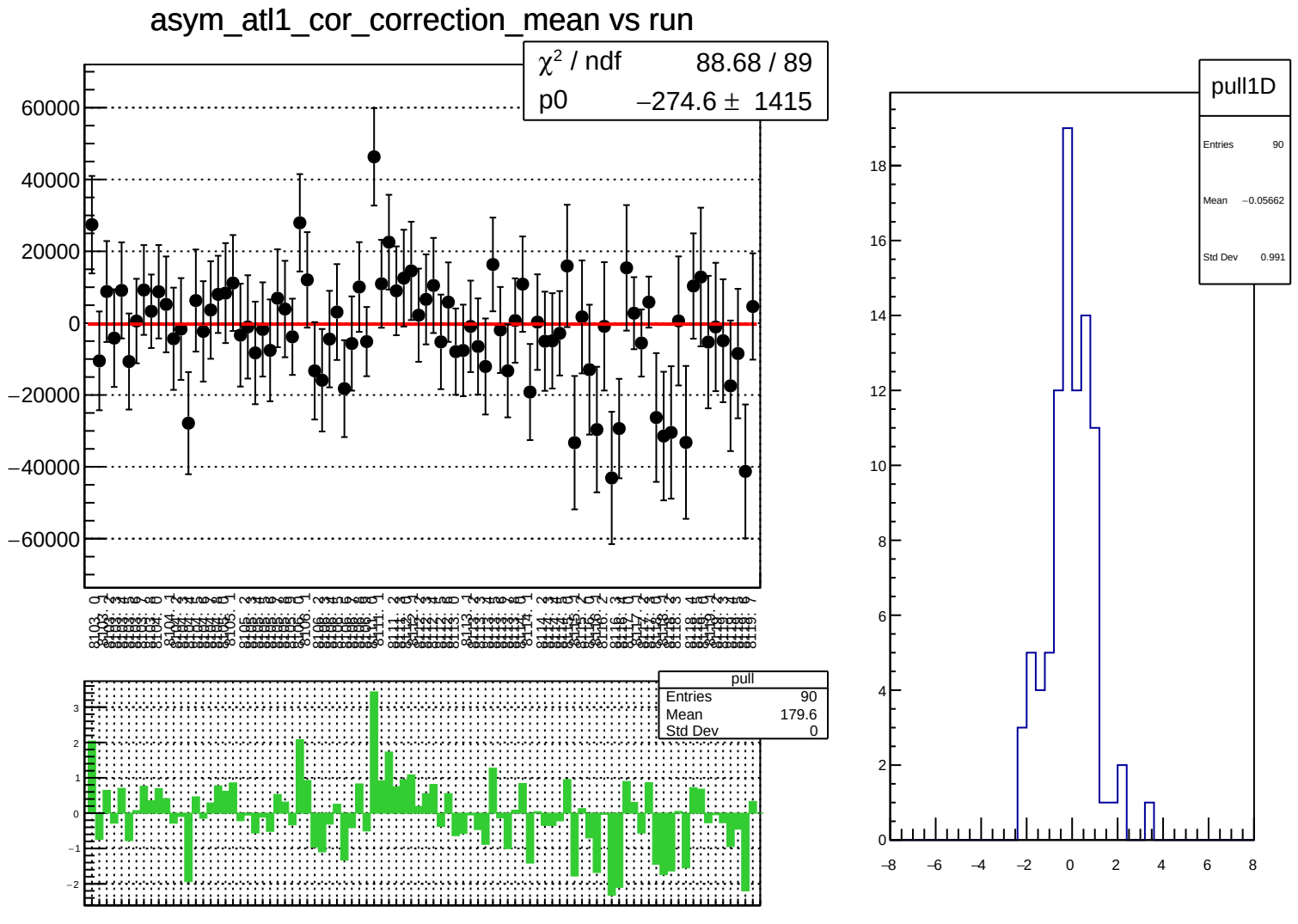

pull1D
Entries 90
Mean −0.05661
Std Dev 0.9911

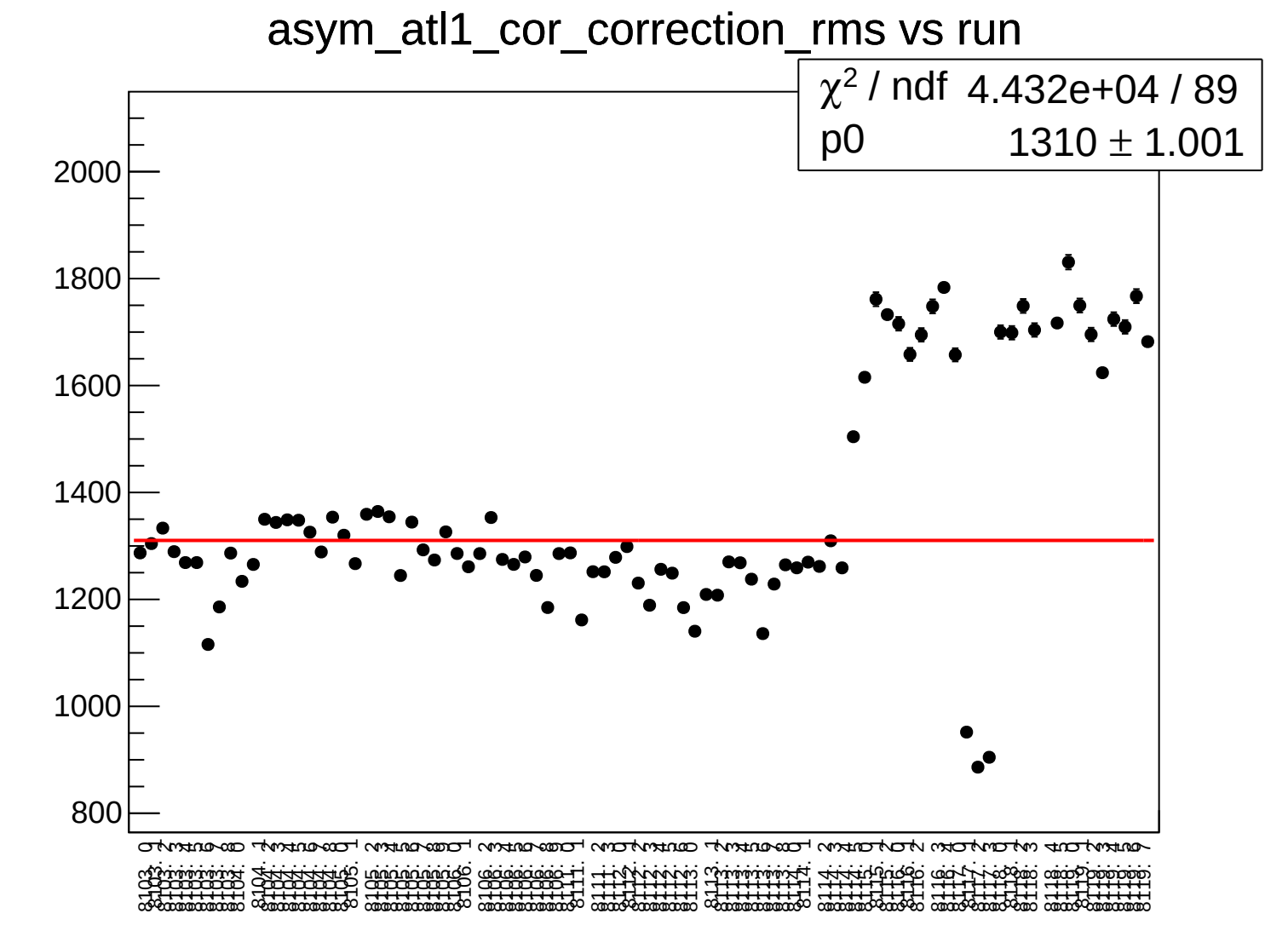

asym_atl1_reg_correction_rms vs run
χ² / ndf 4.432e+04 / 89
p0 1310 ± 1.001
2000
1800
1600
1400
1200
1000
800

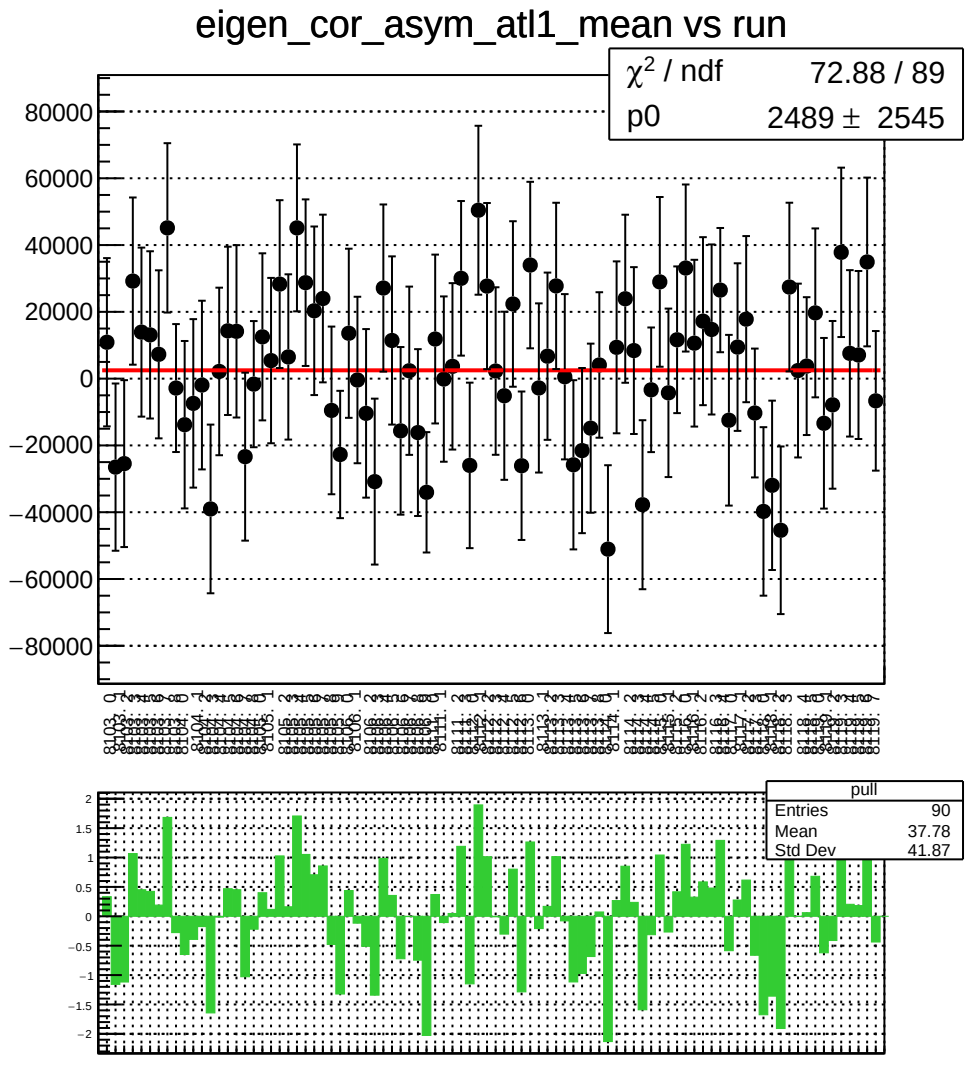

cor_asym_atl1_mean vs run
χ² / ndf 72.88 / 89
p0 2489 ± 2545
pull
Entries 90
Mean 37.78
Std Dev 41.87

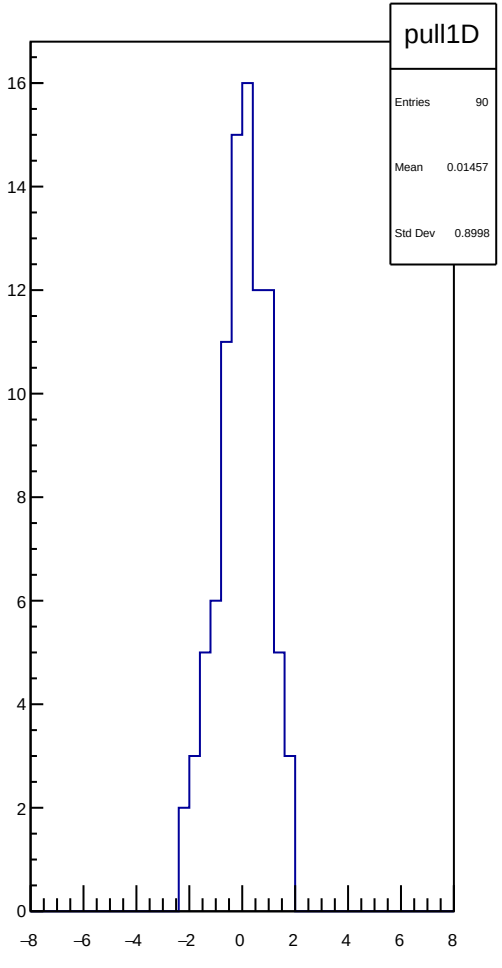

pull1D
Entries 90
Mean 0.01457
Std Dev 0.8998

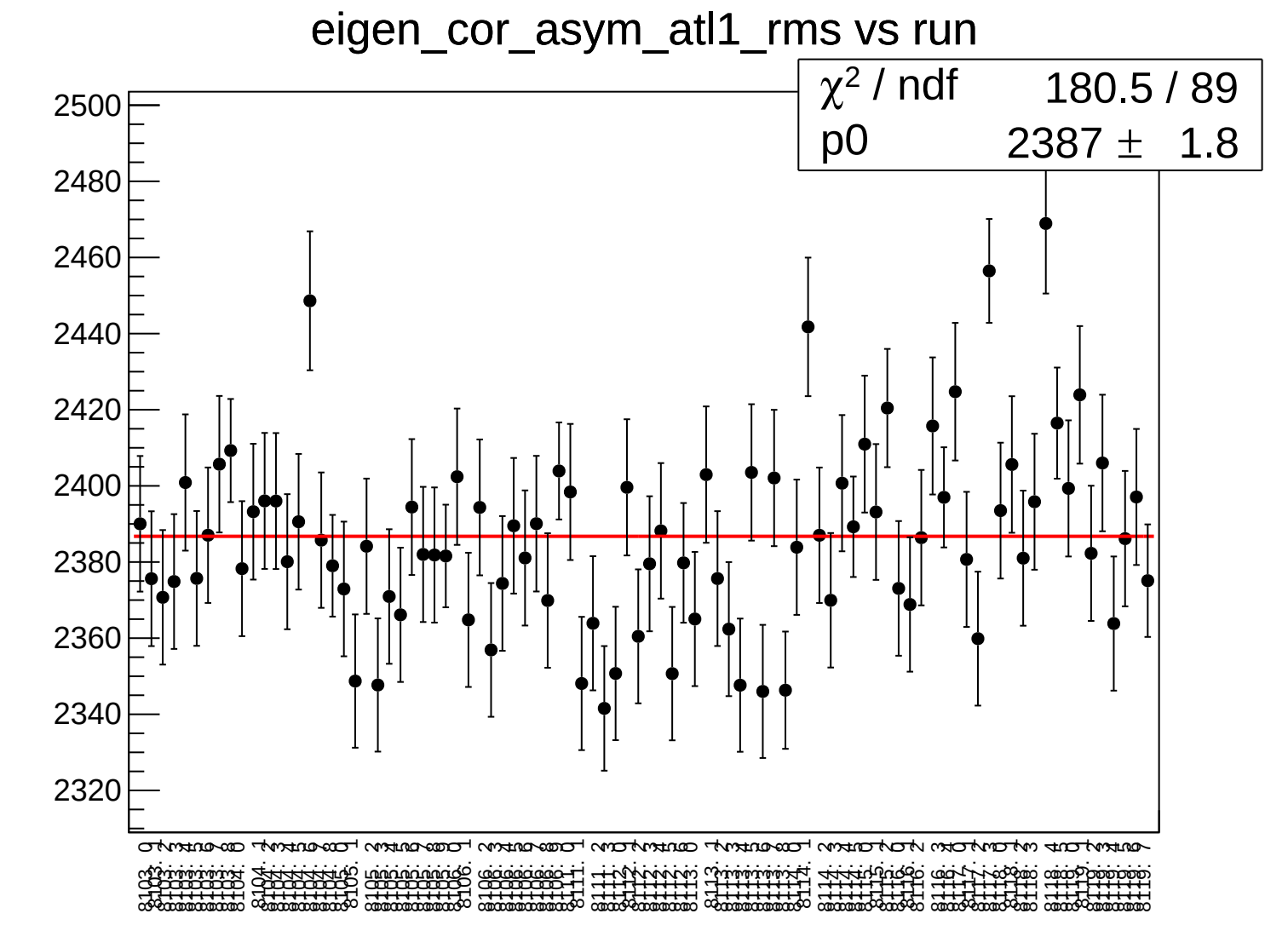

cor_asym_atl1_rms vs run
χ² / ndf 180.5 / 89
p0 2387 ± 1.8
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

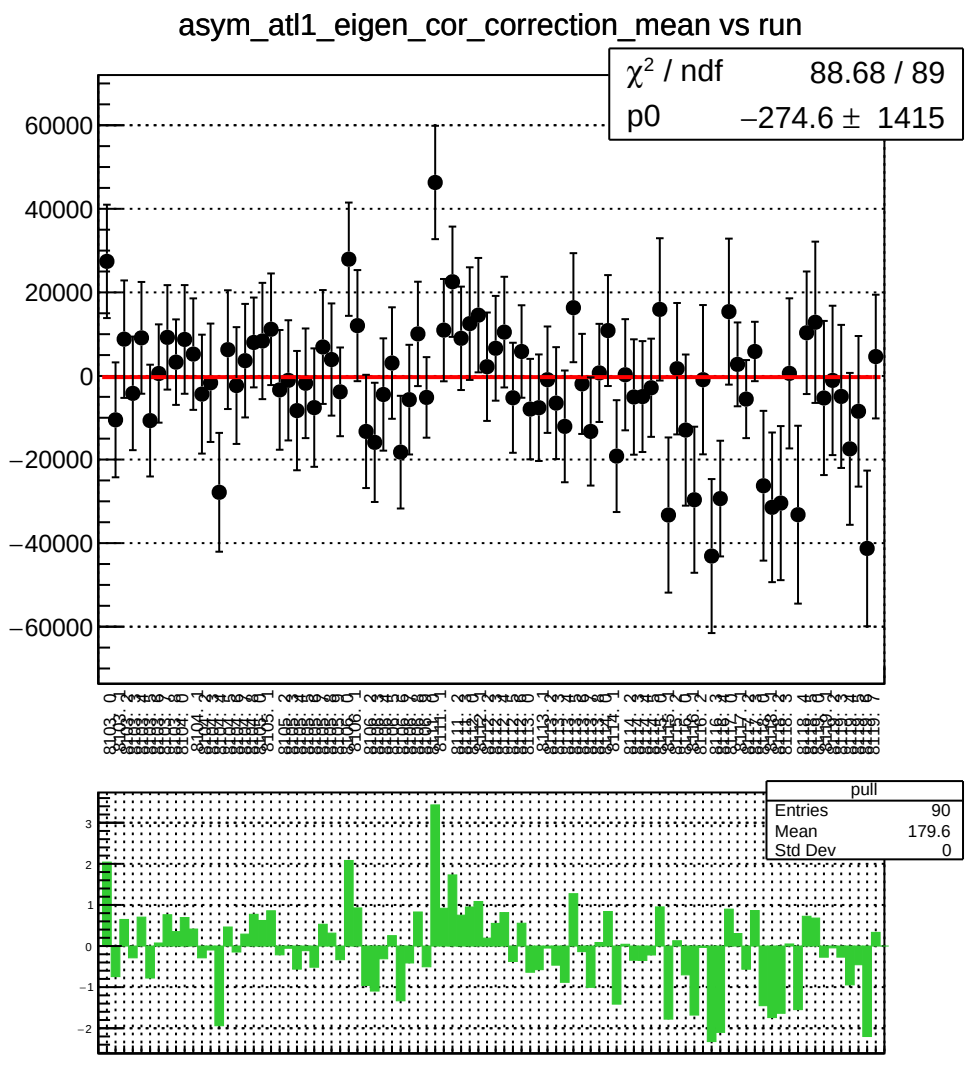

asym_atl1_cor_correction_mean vs run
χ² / ndf 88.68 / 89
p0 −274.6 ± 1415
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 179.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.05662
Std Dev 0.991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

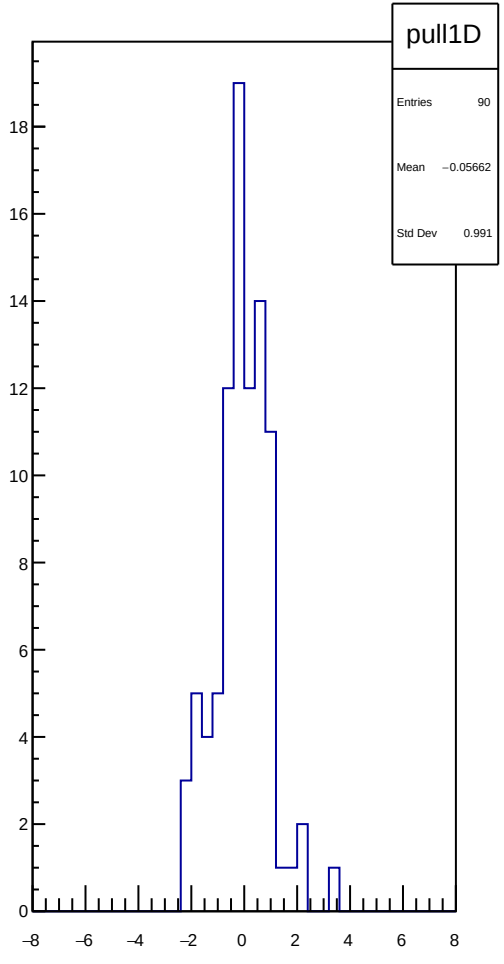

asym_atl1_cor_correction_rms vs run
χ² / ndf 4.432e+04 / 89
p0 1310 ± 1.001
2000
1800
1600
1400
1200
1000
800

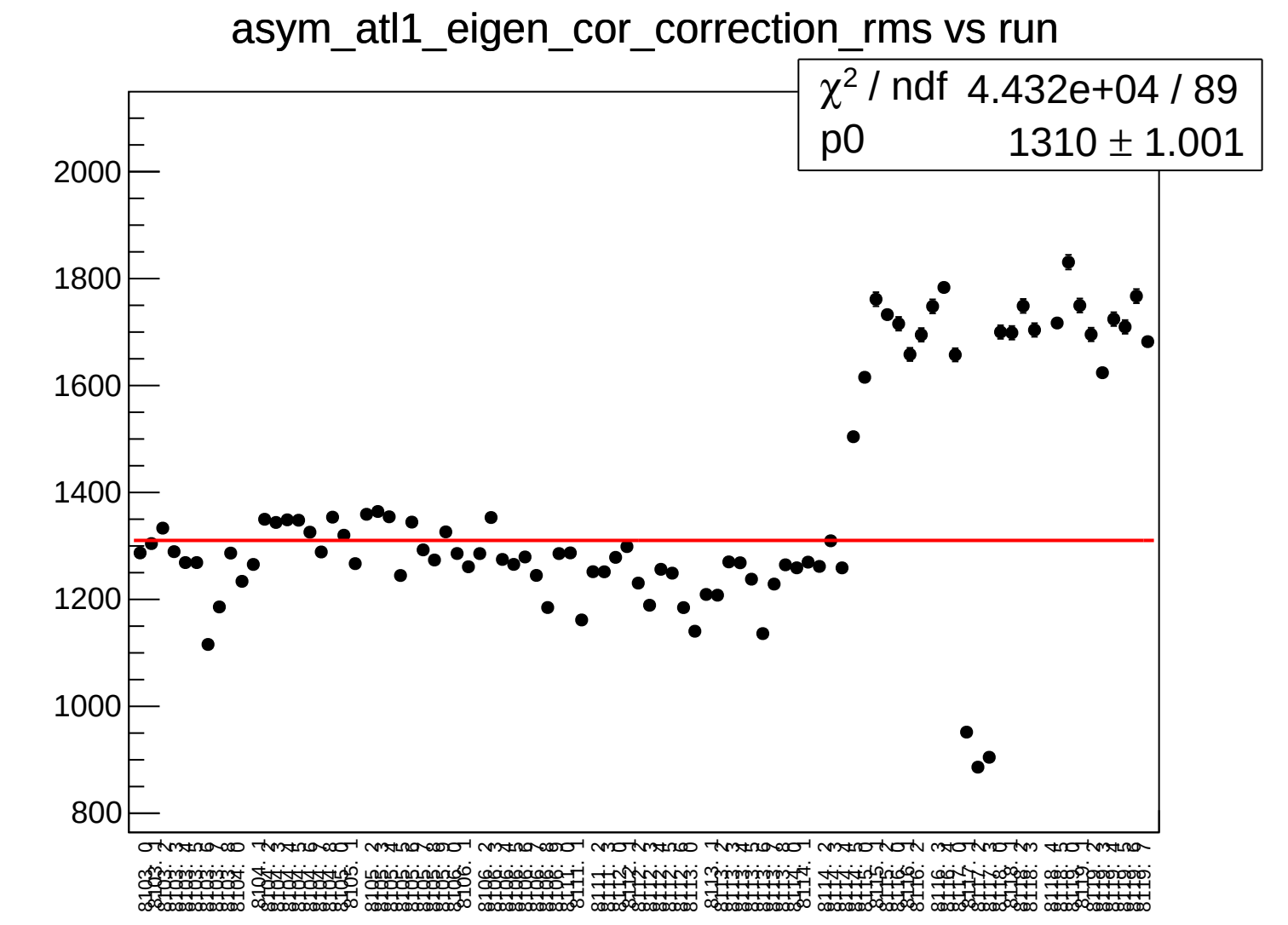

eigen_cor_asym_atl1_mean vs run
χ² / ndf 72.88 / 89
p0 2489 ± 2545
pull
Entries 90
Mean 37.78
Std Dev 41.87

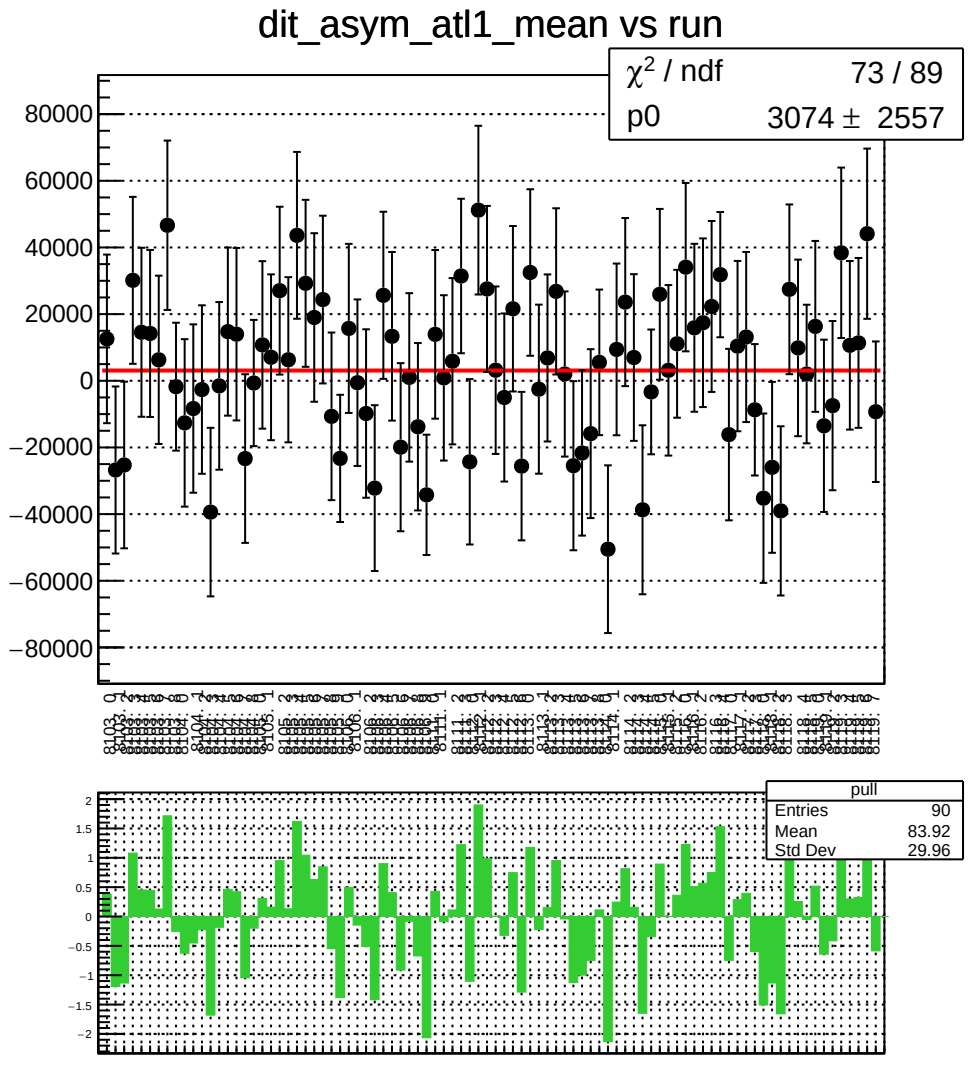

pull1D
Entries 90
Mean 0.01457
Std Dev 0.8998

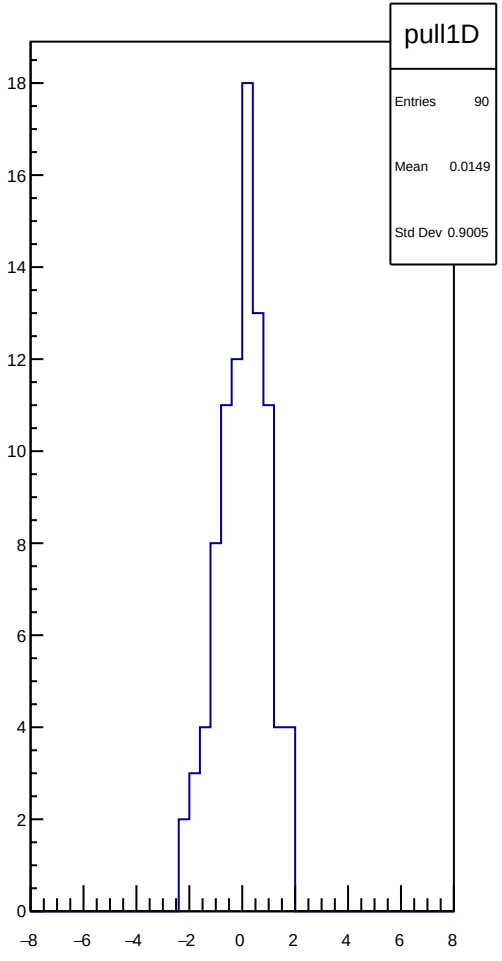

eigen_cor_asym_atl1_rms vs run
χ² / ndf 180.5 / 89
p0 2387 ± 1.8
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

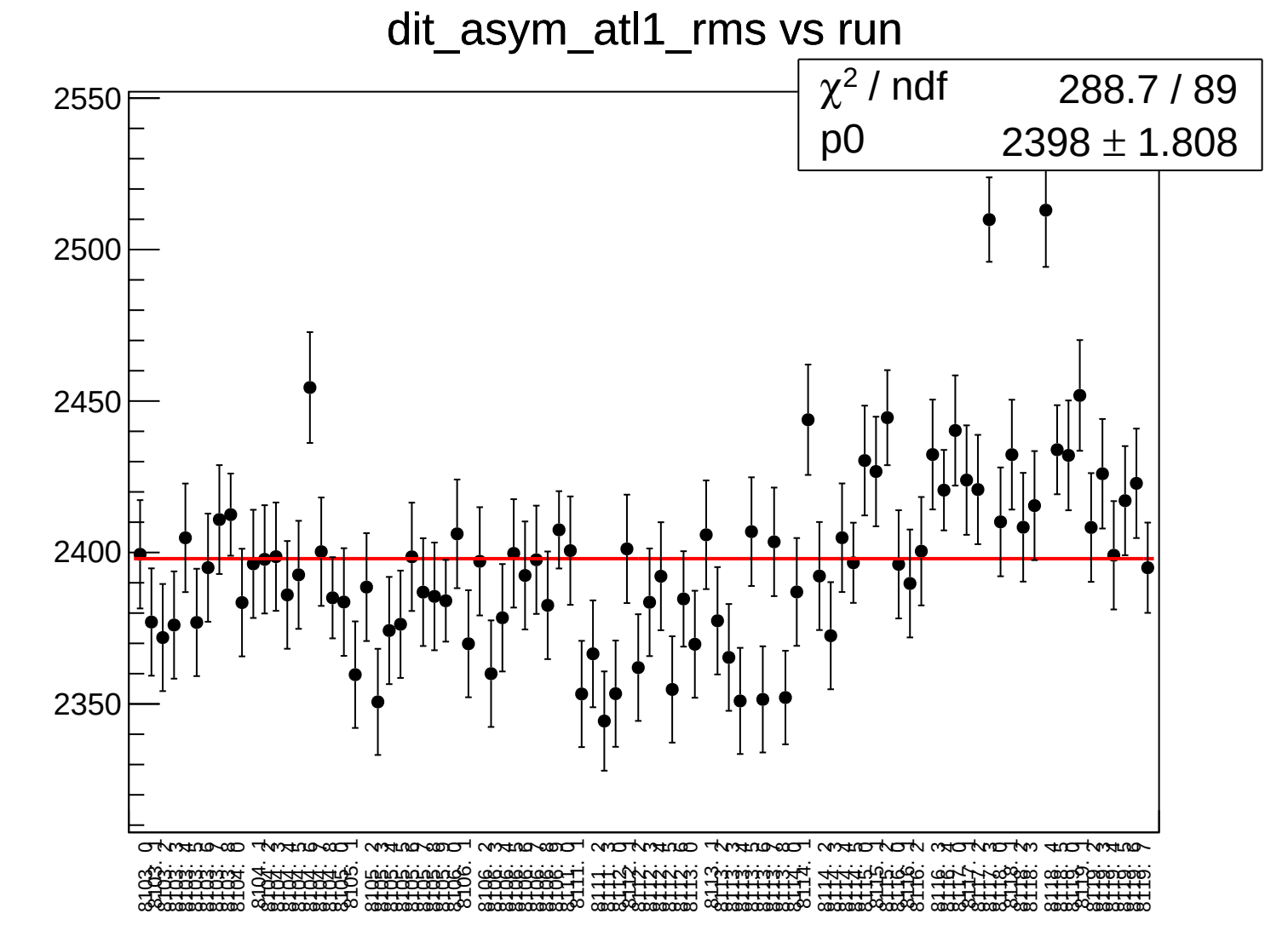

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 88.68 / 89
p0 −274.6 ± 1415
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 179.6
Std Dev 0
3
2
1
0
−1
−2

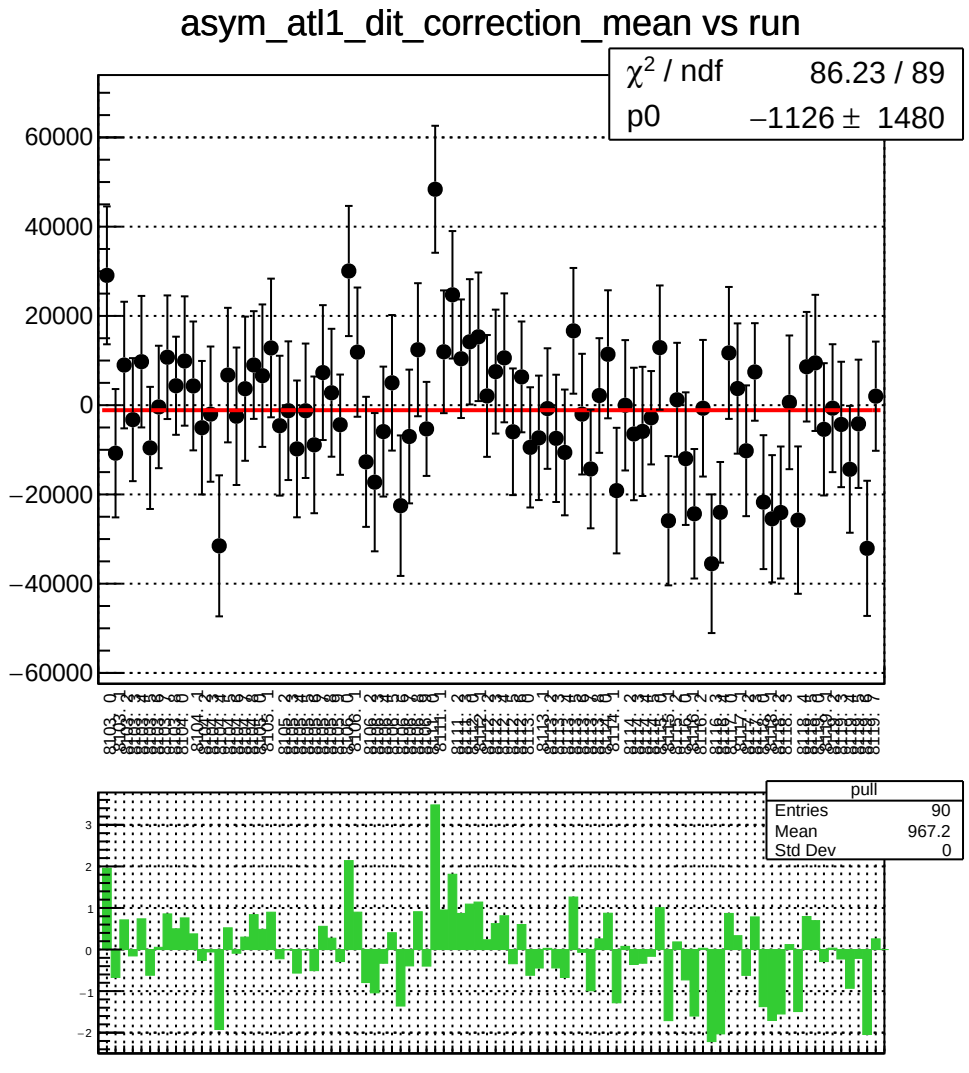

pull1D
Entries 90
Mean −0.05662
Std Dev 0.991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

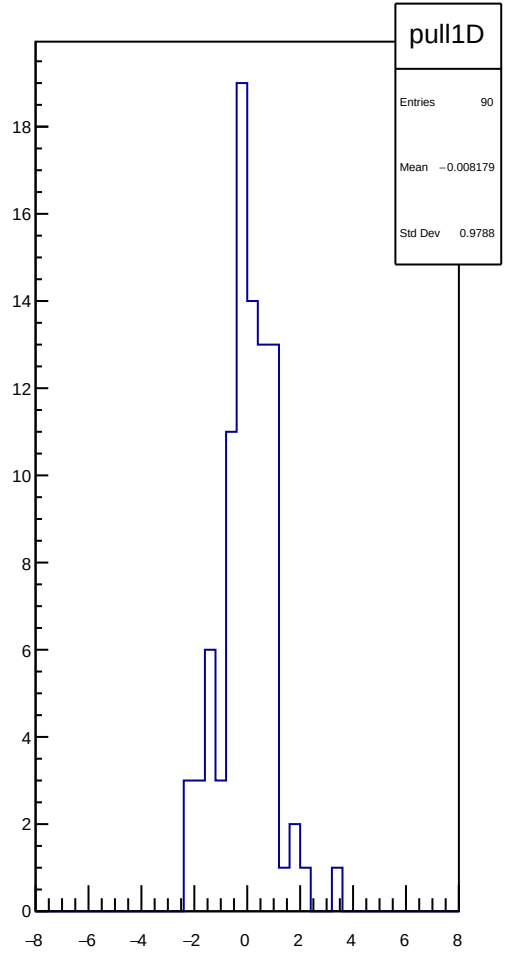

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 4.432e+04 / 89
p0 1310 ± 1.001
2000
1800
1600
1400
1200
1000
800

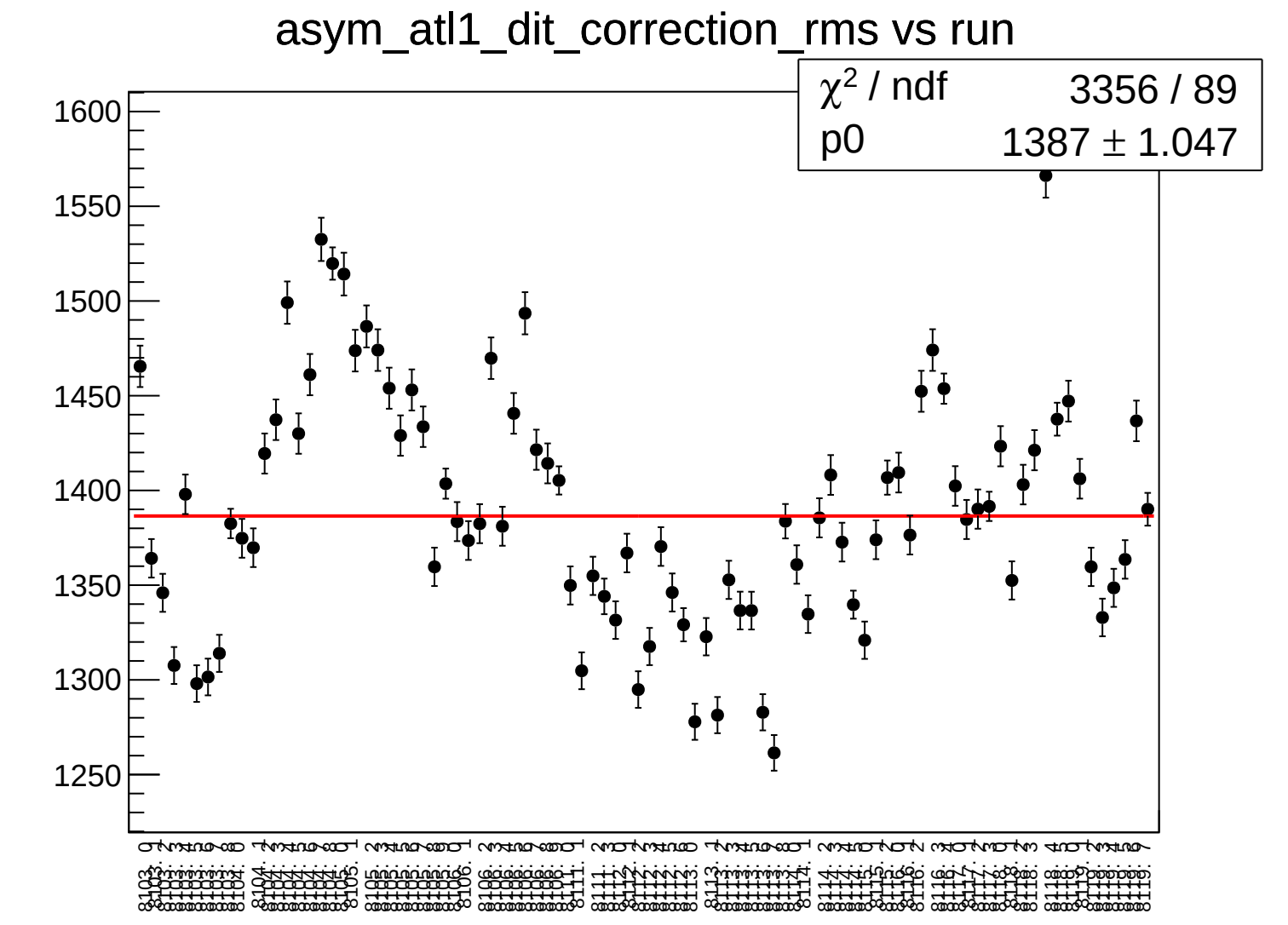

dit_asym_atl1_mean vs run
χ² / ndf 73 / 89
p0 3074 ± 2557
pull
Entries 90
Mean 83.92
Std Dev 29.96

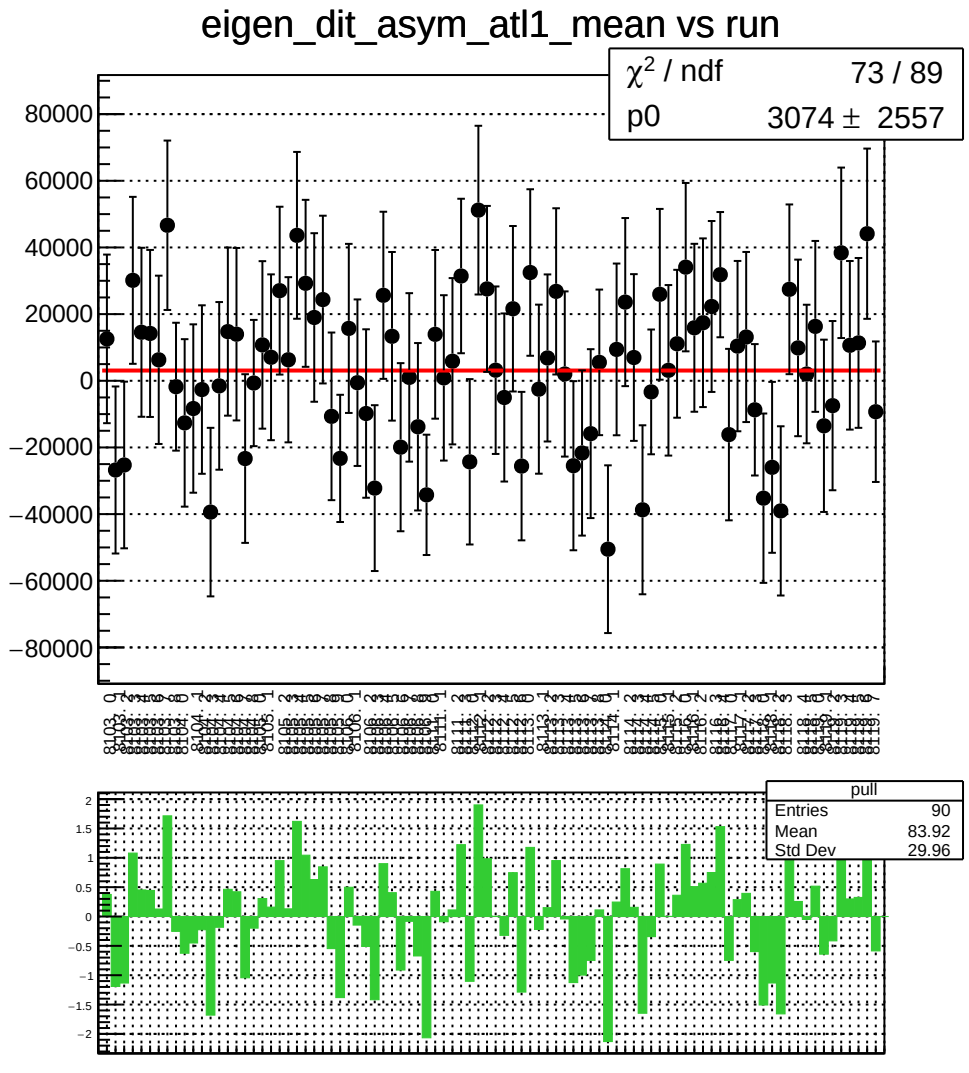

pull1D
Entries 90
Mean 0.0149
Std Dev 0.9005

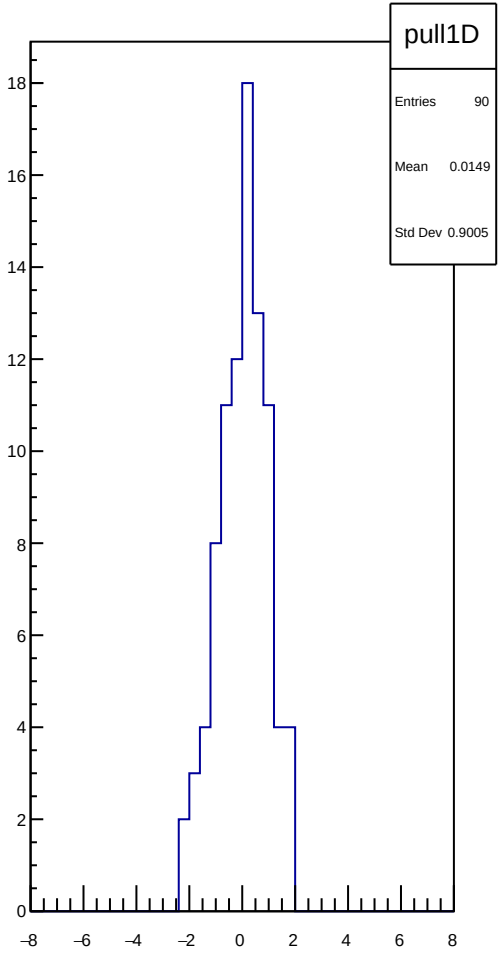

dit_asym_atl1_rms vs run
χ² / ndf 288.7 / 89
p0 2398 ± 1.808
2550
2500
2450
2400
2350

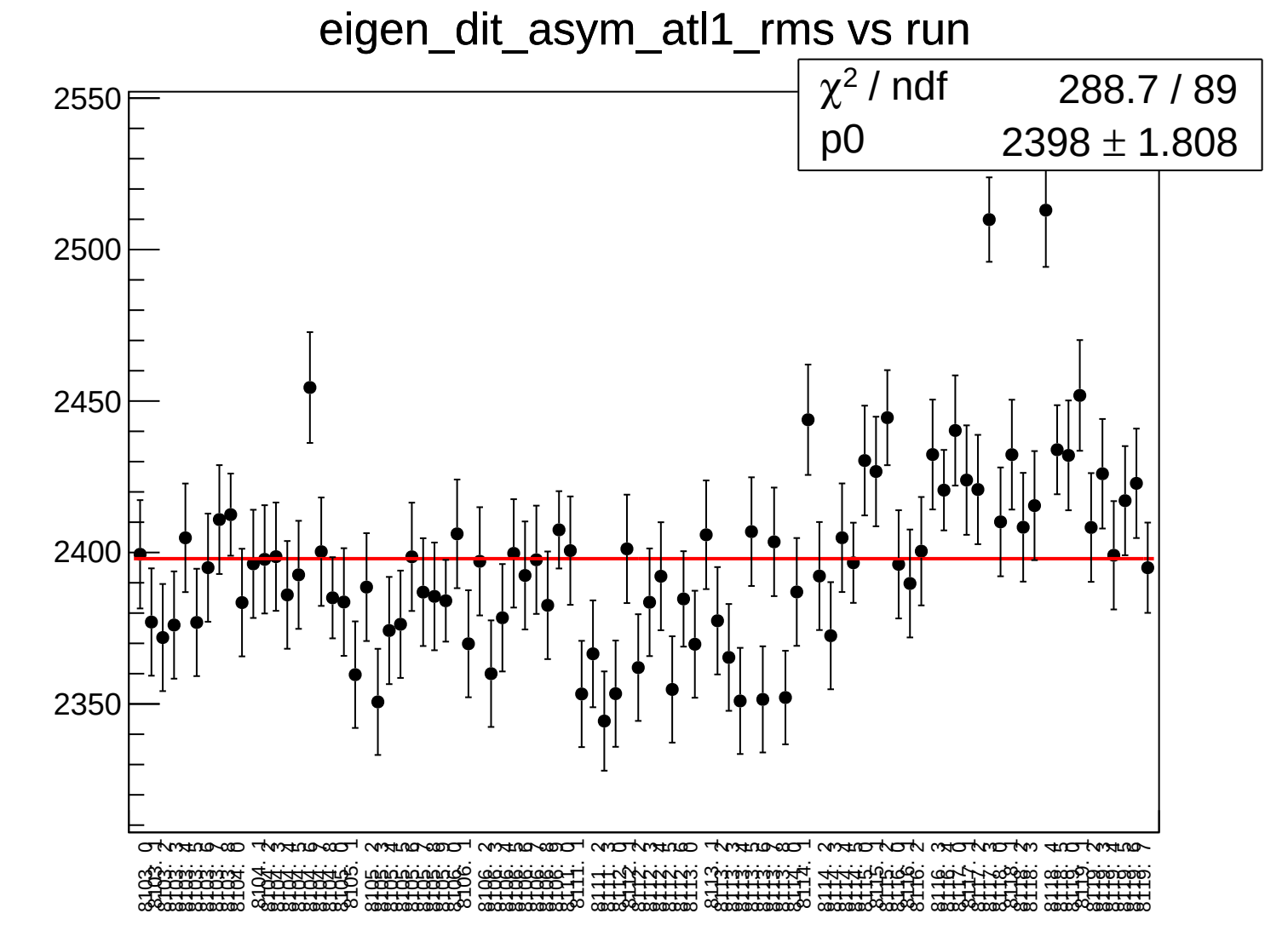

asym_atl1_dit_correction_mean vs run
χ² / ndf 86.23 / 89
p0 −1126 ± 1480
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 967.2
Std Dev 0
3
2
1
0
−1
−2

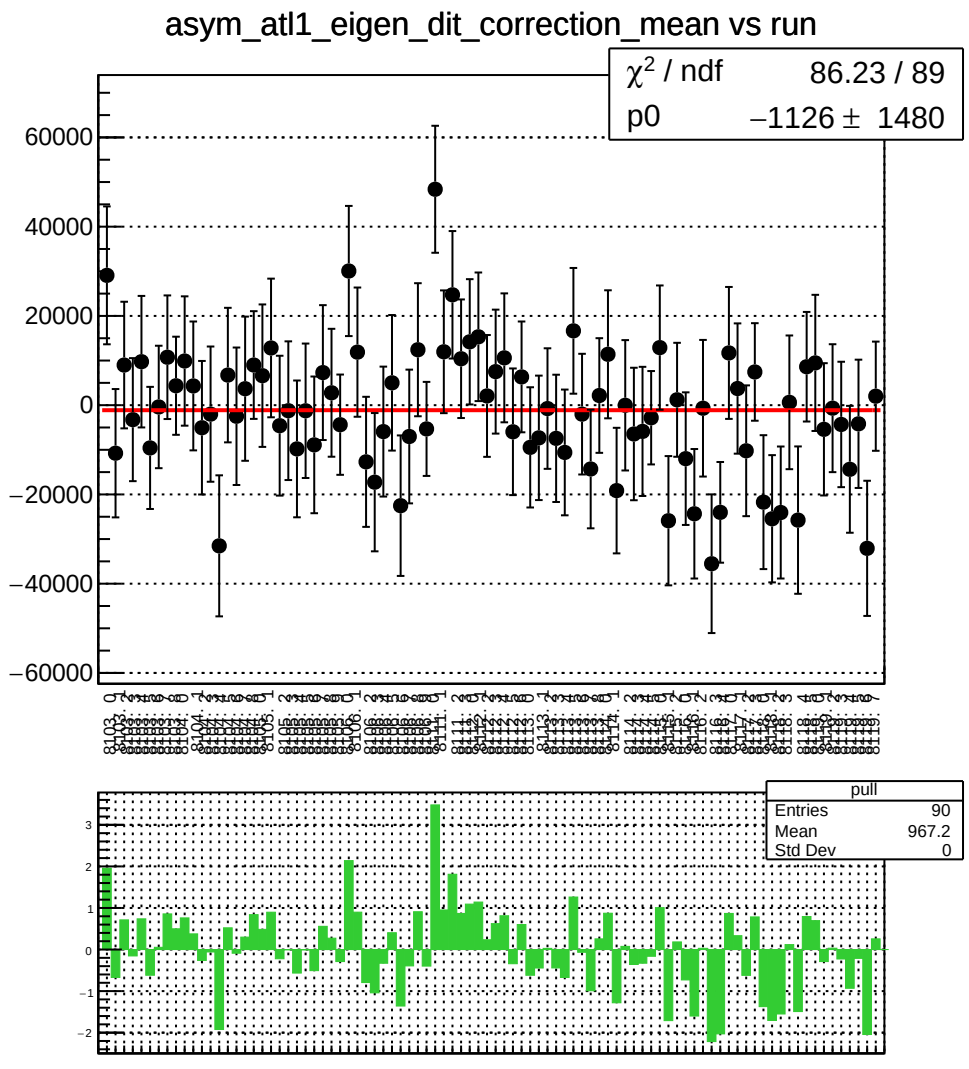

pull1D
Entries 90
Mean −0.008179
Std Dev 0.9788
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

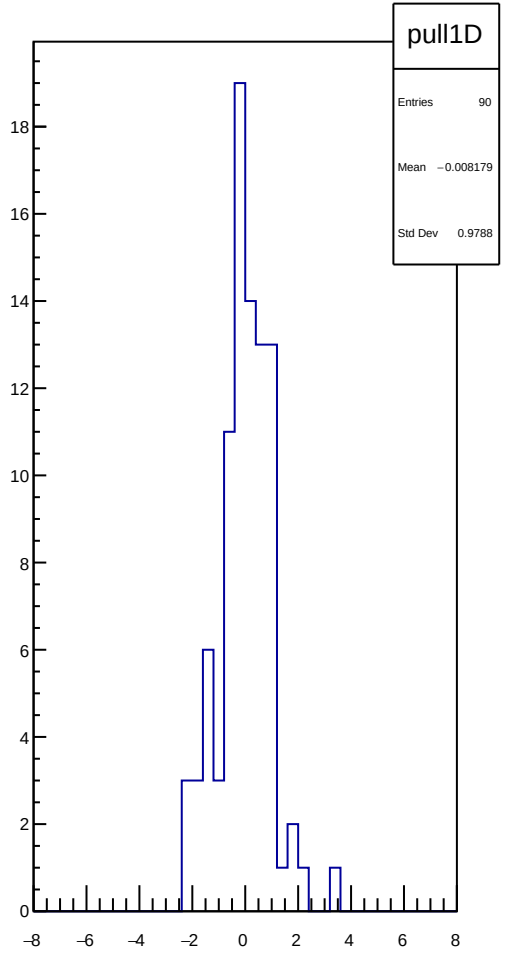

asym_atl1_dit_correction_rms vs run
χ² / ndf 3356 / 89
p0 1387 ± 1.047
1600
1550
1500
1450
1400
1350
1300
1250

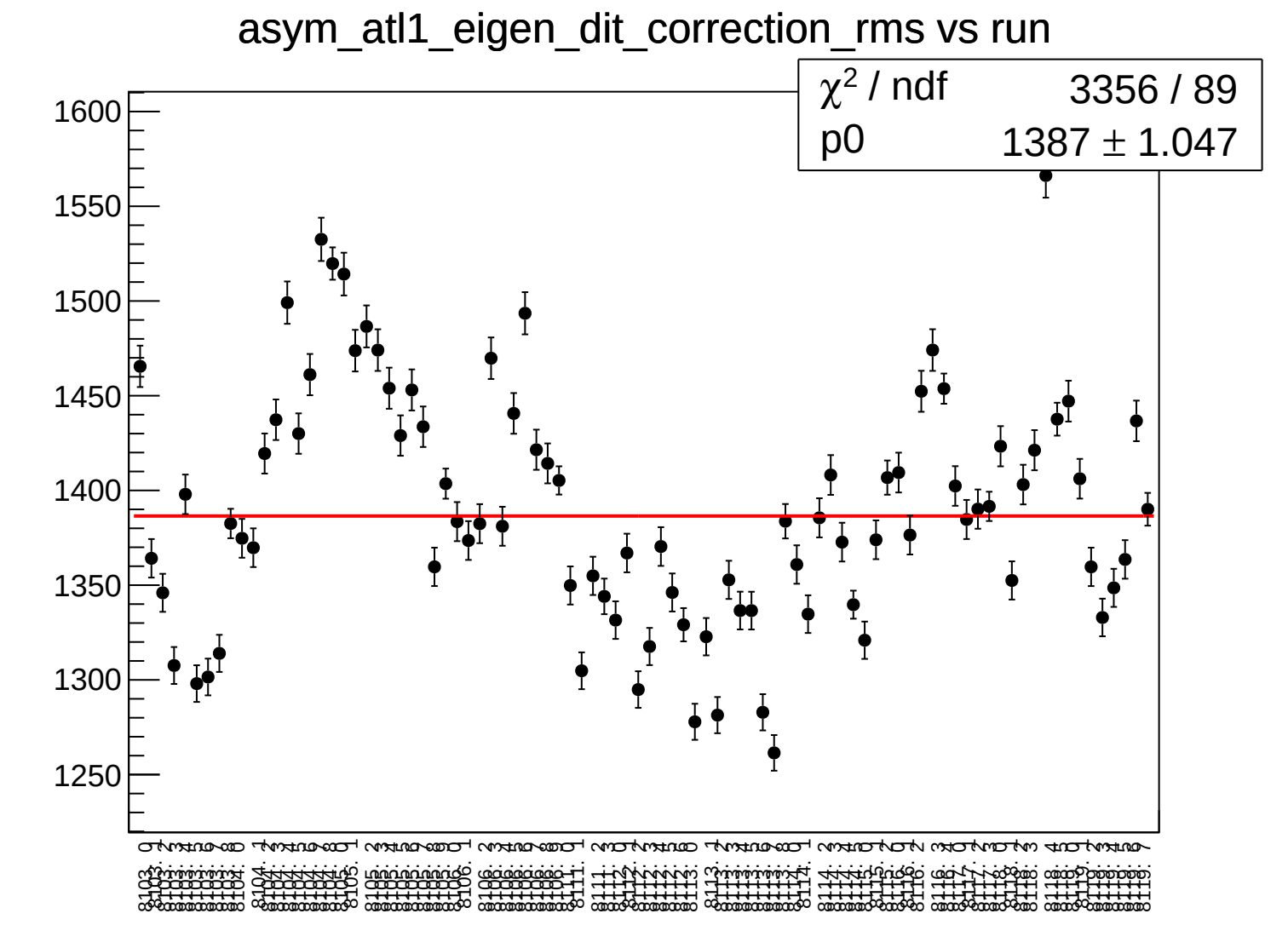

eigen_dit_asym_atl1_mean vs run
χ² / ndf 73 / 89
p0 3074 ± 2557
pull
Entries 90
Mean 83.92
Std Dev 29.96

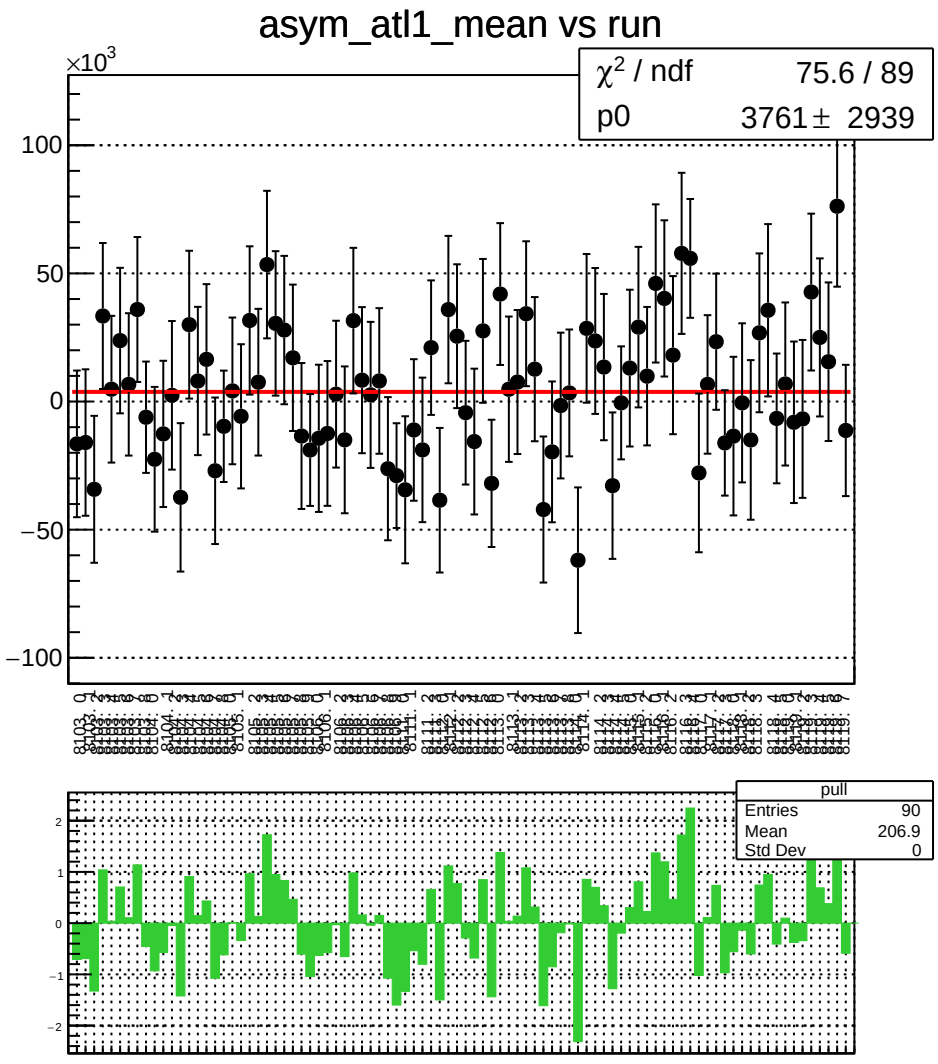

pull1D
Entries 90
Mean 0.0149
Std Dev 0.9005

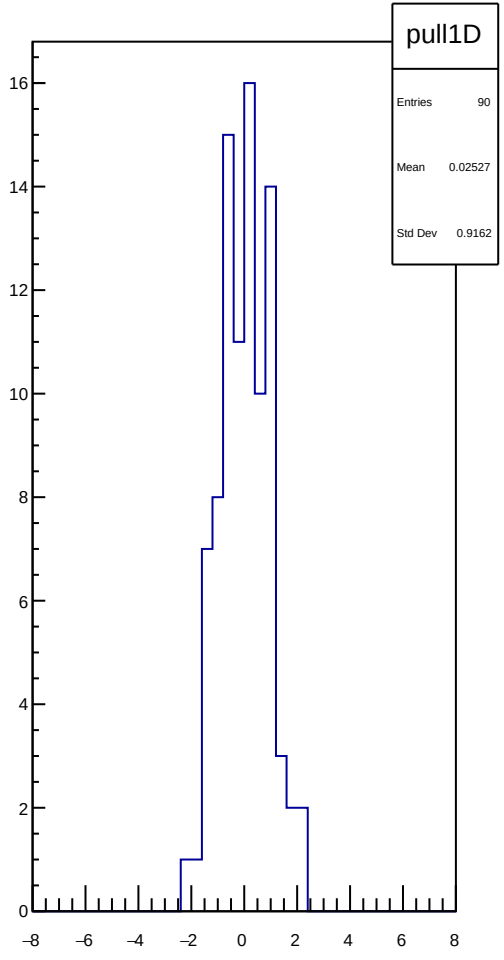

eigen_dit_asym_atl1_rms vs run
χ² / ndf 288.7 / 89
p0 2398 ± 1.808
2550
2500
2450
2400
2350

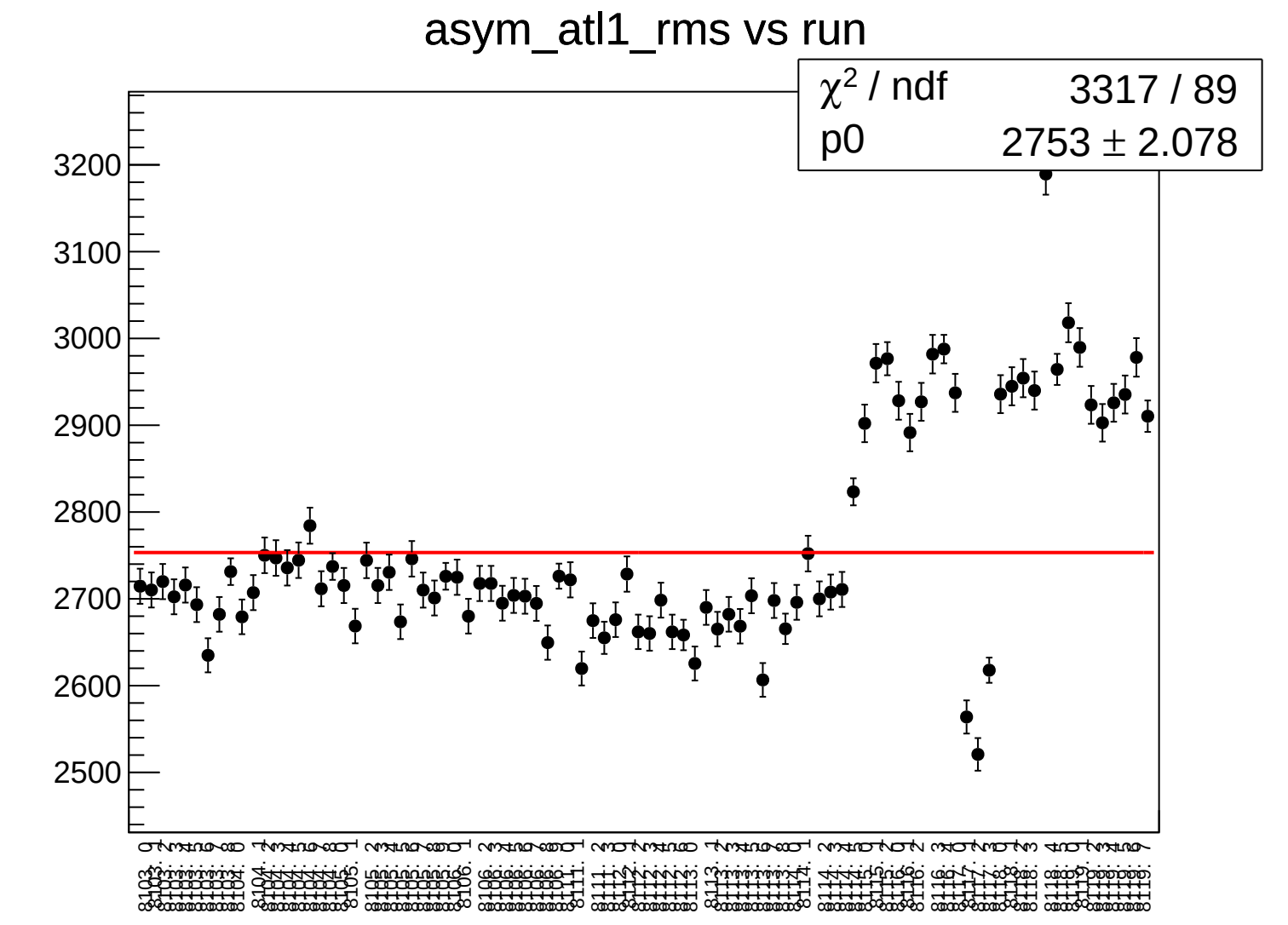

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 86.23 / 89
p0 −1126 ± 1480
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 967.2
Std Dev 0
3
2
1
0
−1
−2

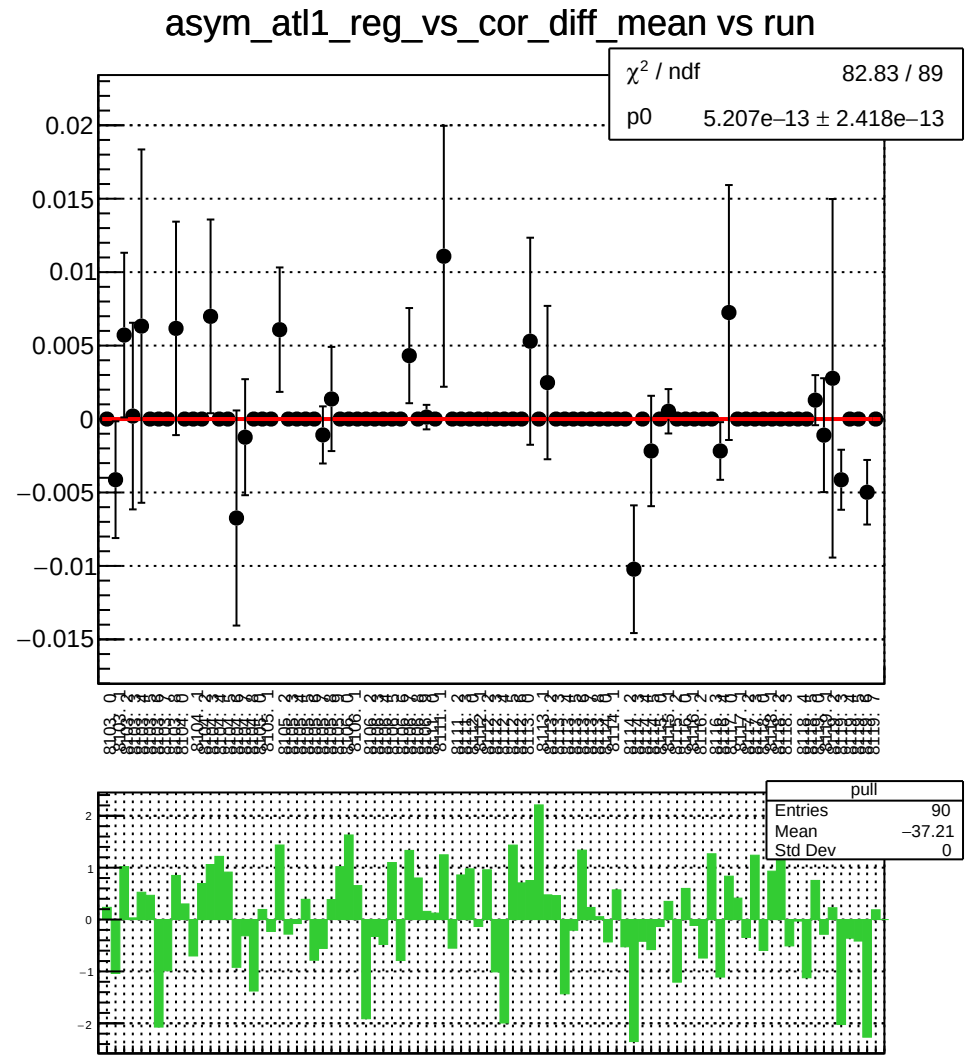

pull1D
Entries 90
Mean −0.008179
Std Dev 0.9788
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

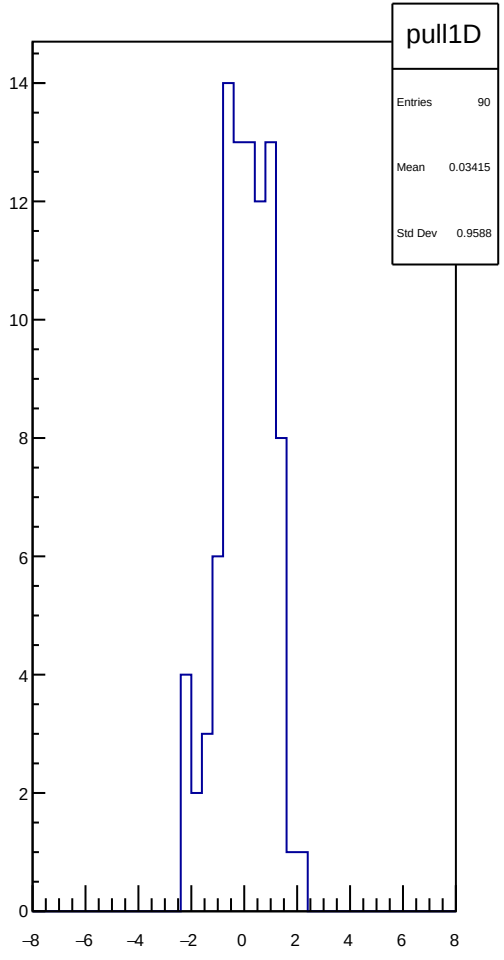

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 3356 / 89
p0 1387 ± 1.047
1600
1550
1500
1450
1400
1350
1300
1250

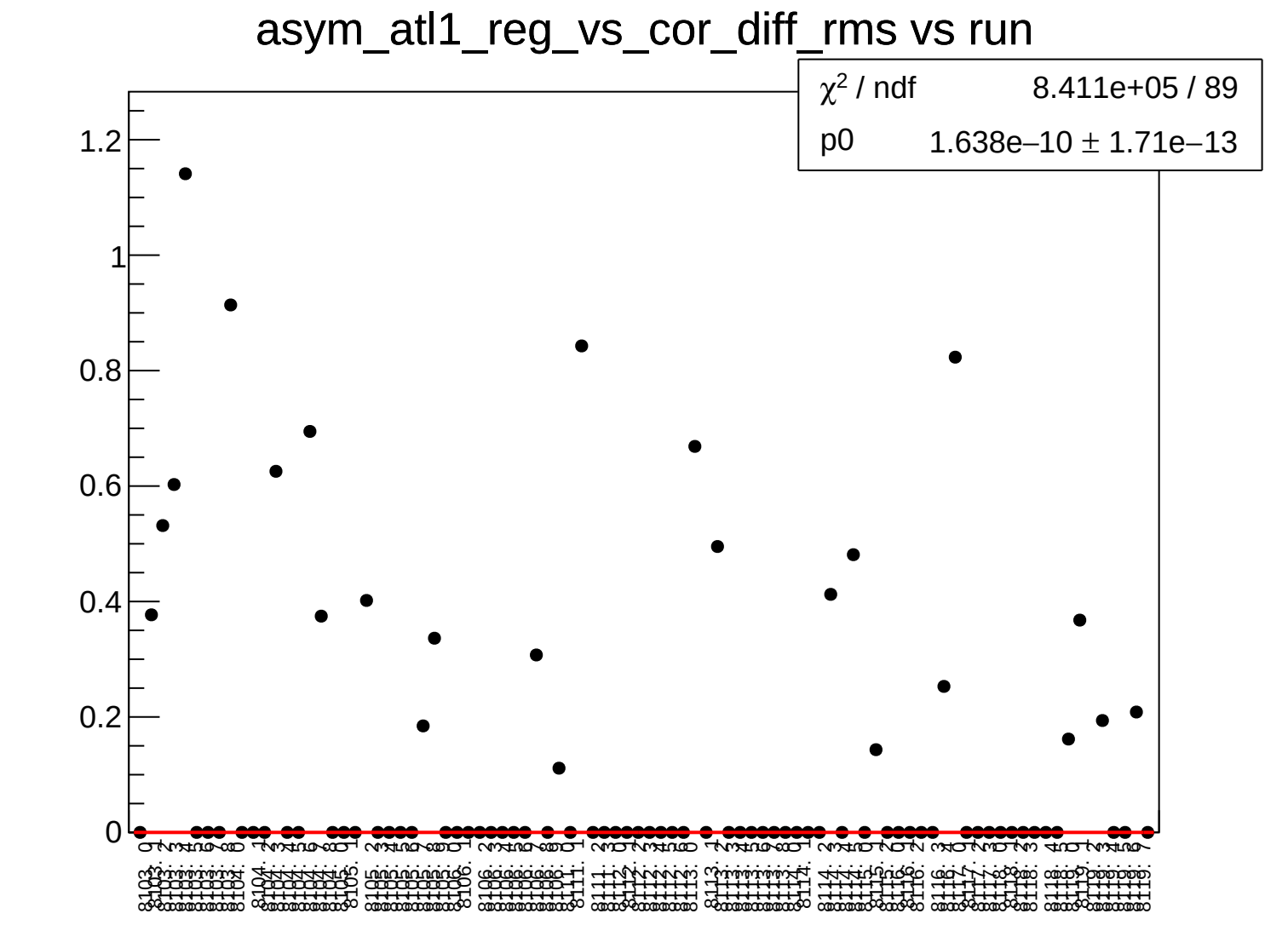

asym_atl1_mean vs run
×10^3
χ² / ndf 75.6 / 89
p0 3761 ± 2939
100
50
0
−50
−100
pull
Entries 90
Mean 206.9
Std Dev 0
2
1
0
−1
−2

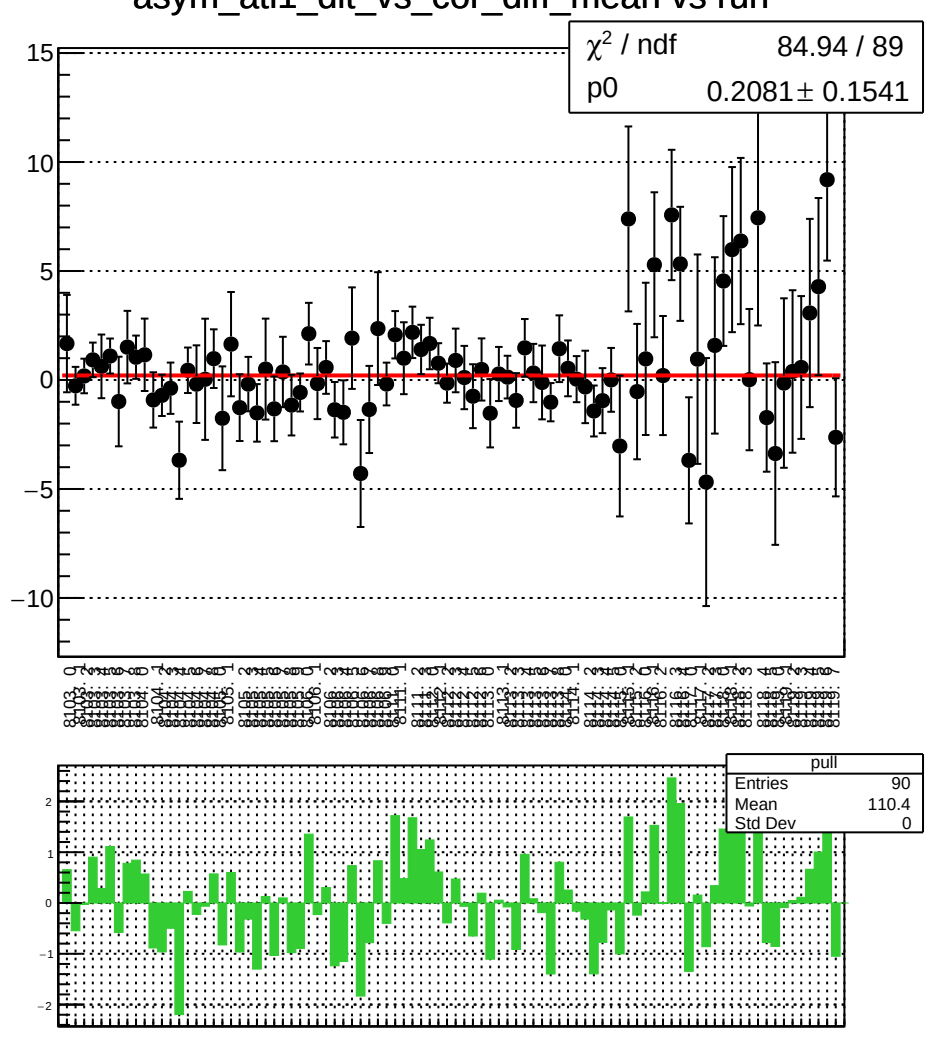

pull1D
Entries 90
Mean 0.02527
Std Dev 0.9162
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

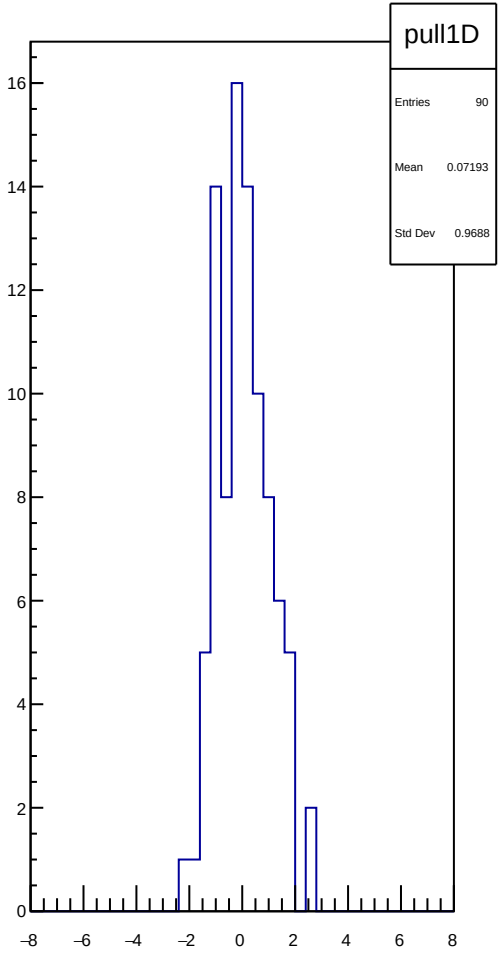

asym_atl1_rms vs run
χ² / ndf 3317 / 89
p0 2753 ± 2.078
3200
3100
3000
2900
2800
2700
2600
2500

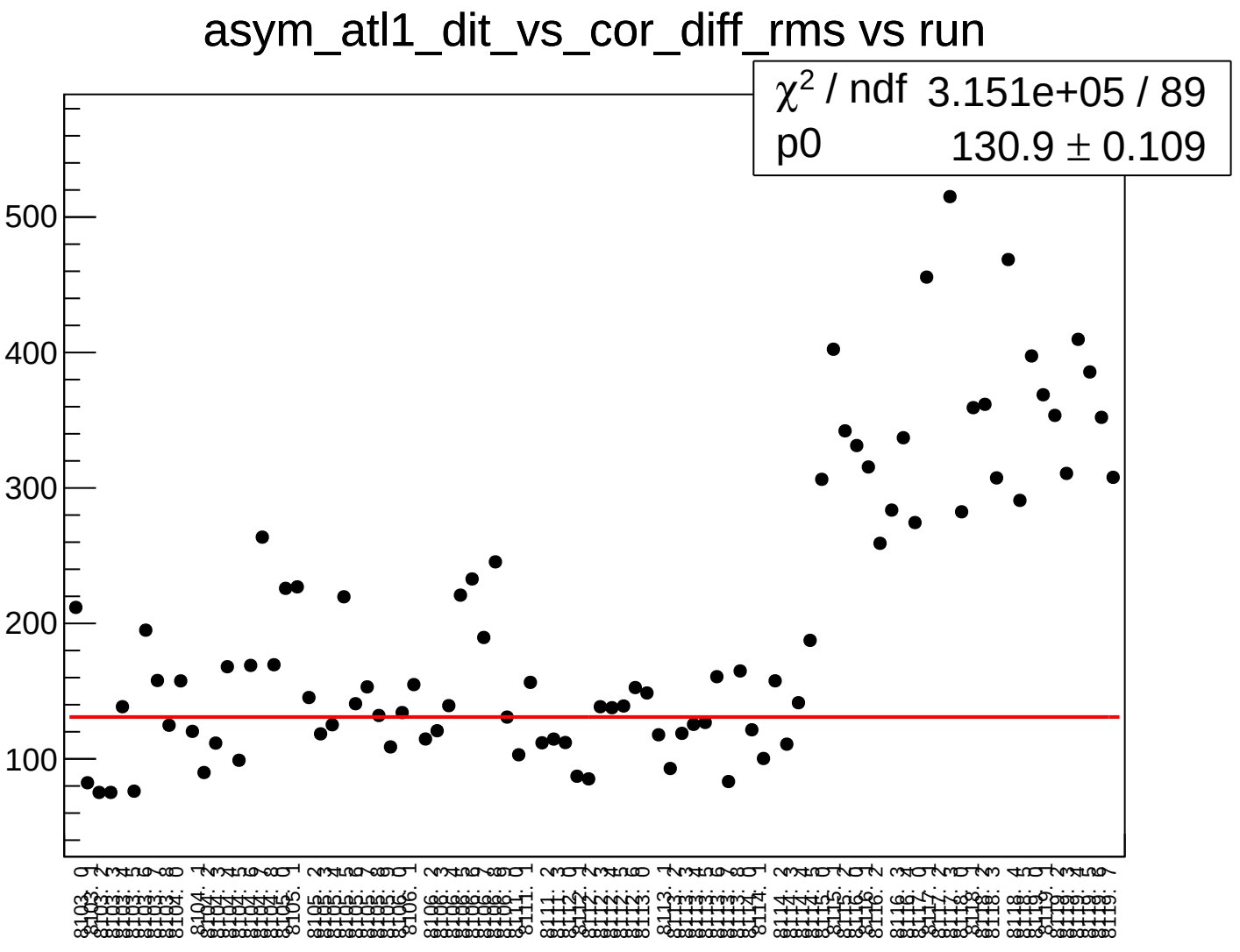

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 82.83 / 89
p0 5.207e−13 ± 2.418e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean −37.21
Std Dev 0
2
1
0
−1
−2

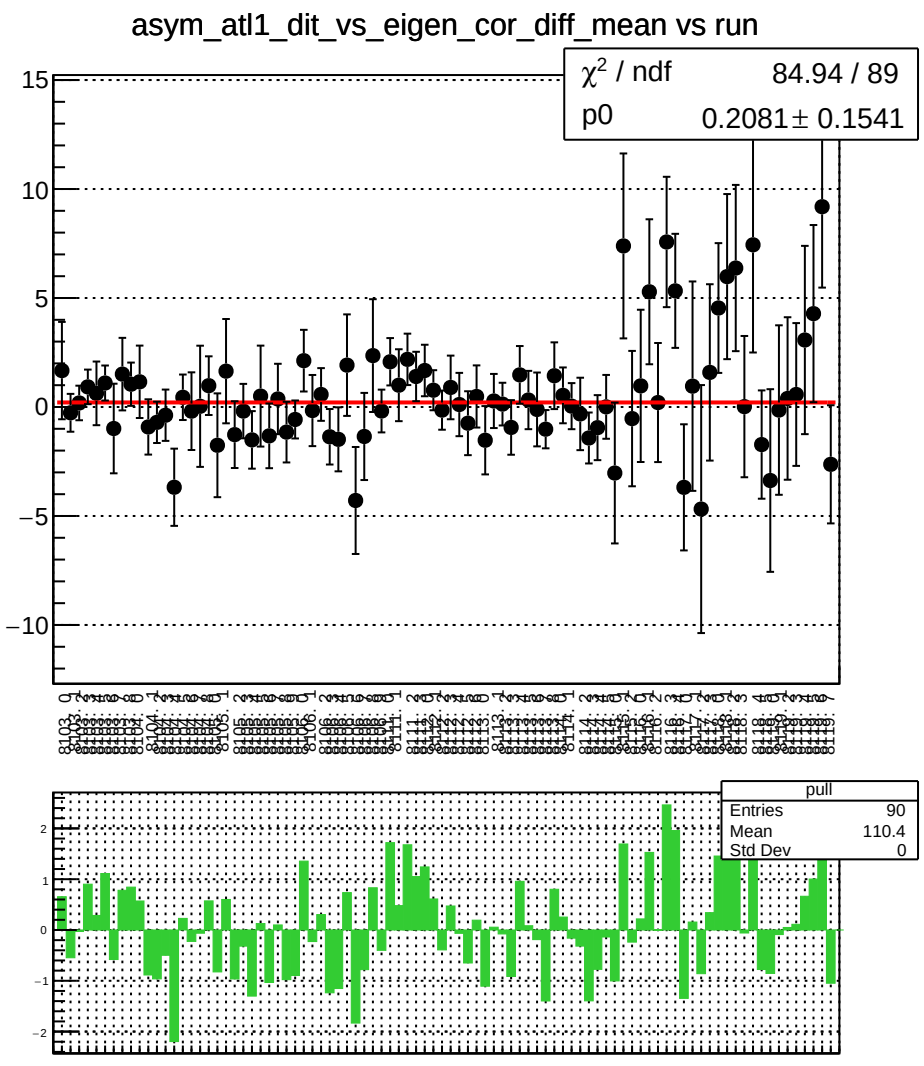

pull1D
Entries 90
Mean 0.03415
Std Dev 0.9588
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

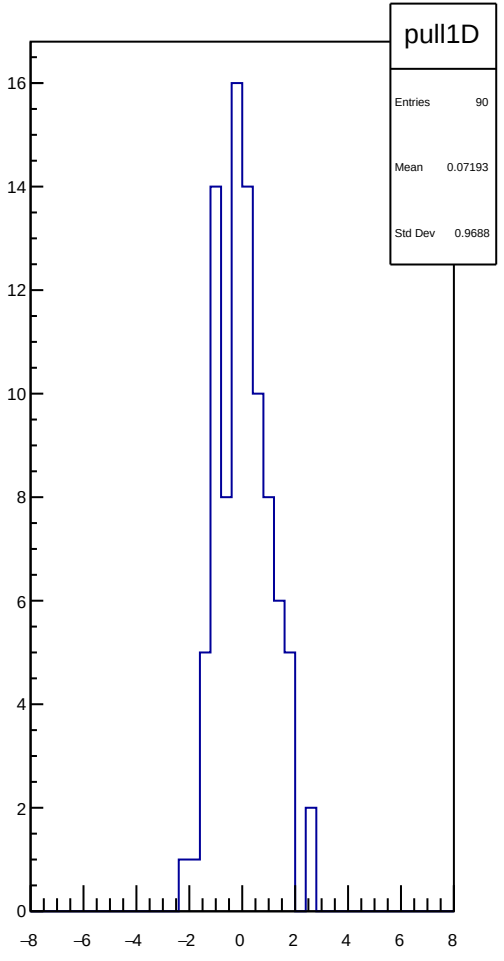

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.411e+05 / 89
p0 1.638e−10 ± 1.71e−13
1.2
1
0.8
0.6
0.4
0.2
0

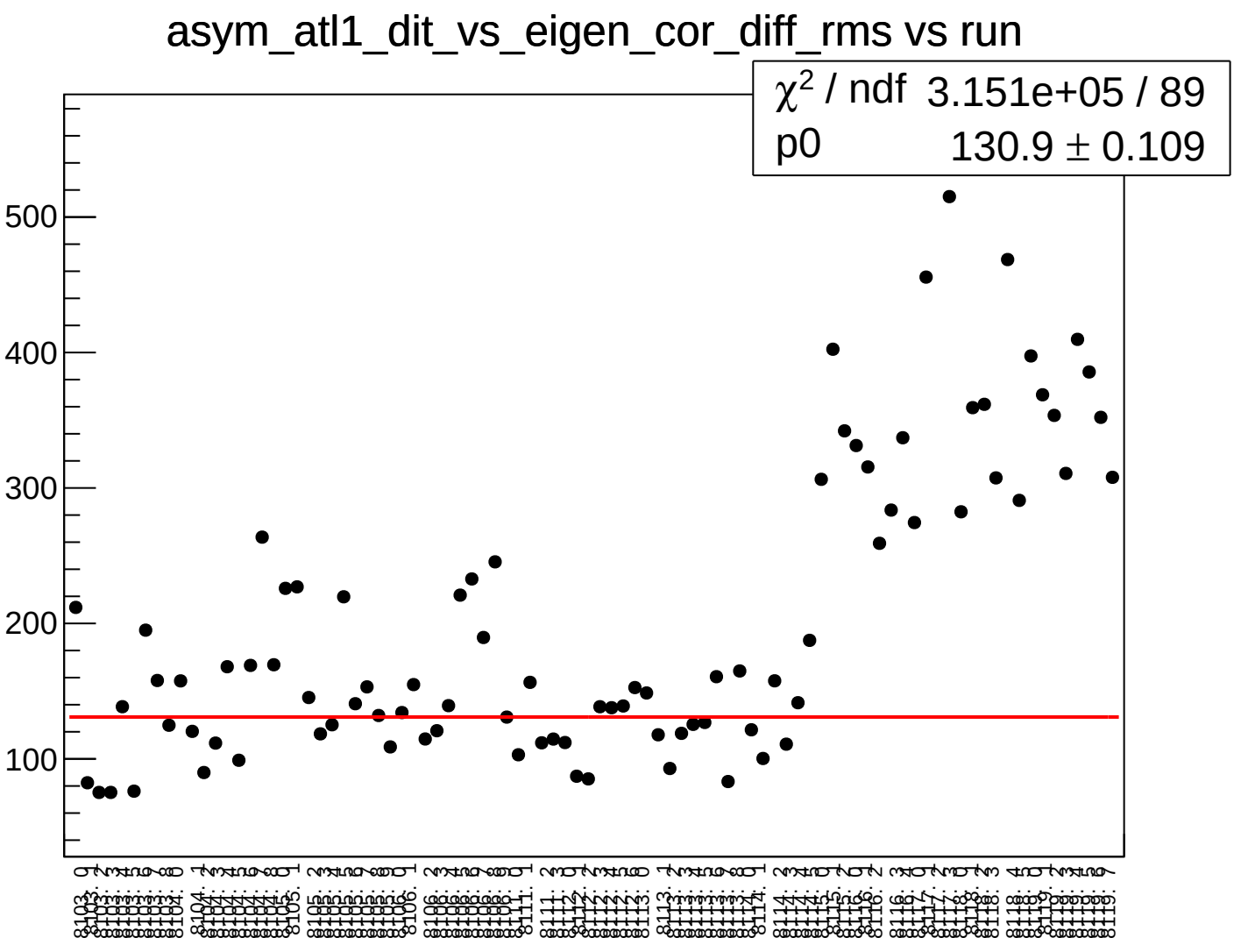

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 84.94 / 89
p0 0.2081± 0.1541
pull
Entries 90
Mean 110.4
Std Dev 0

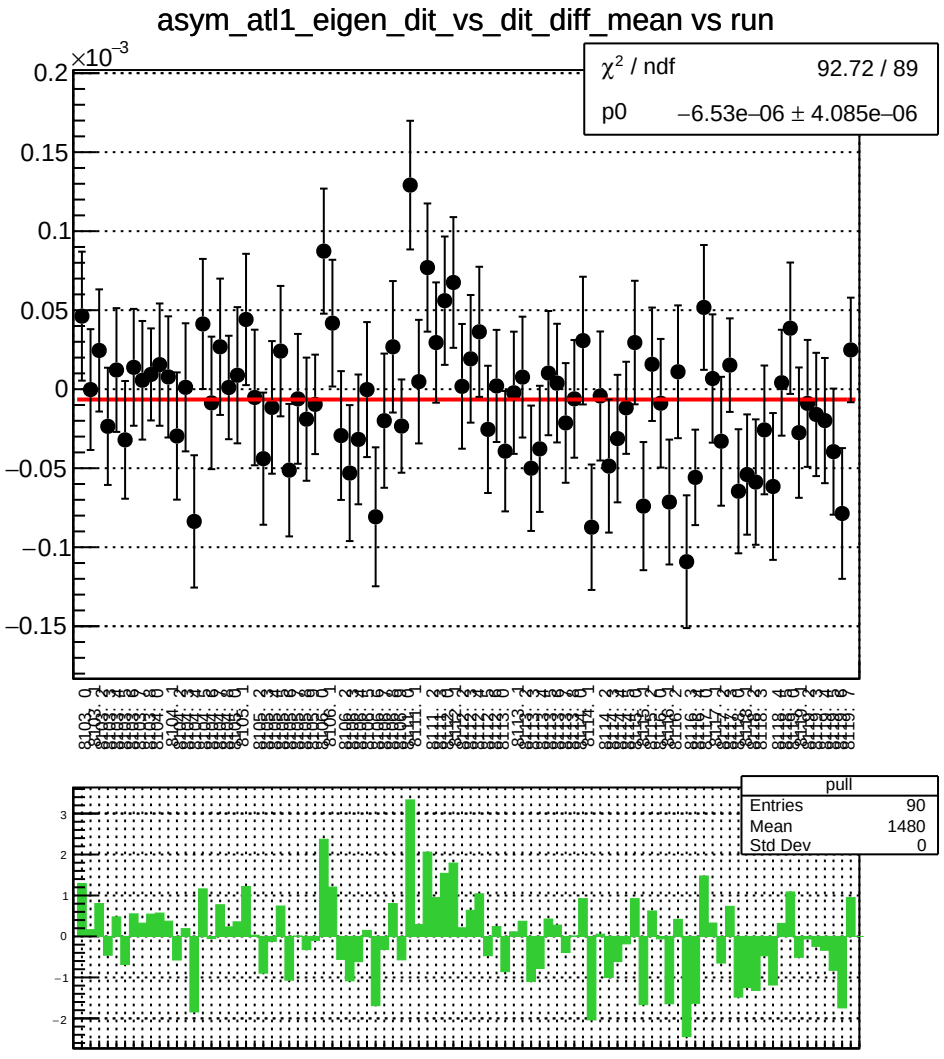

pull1D
Entries 90
Mean 0.07193
Std Dev 0.9688

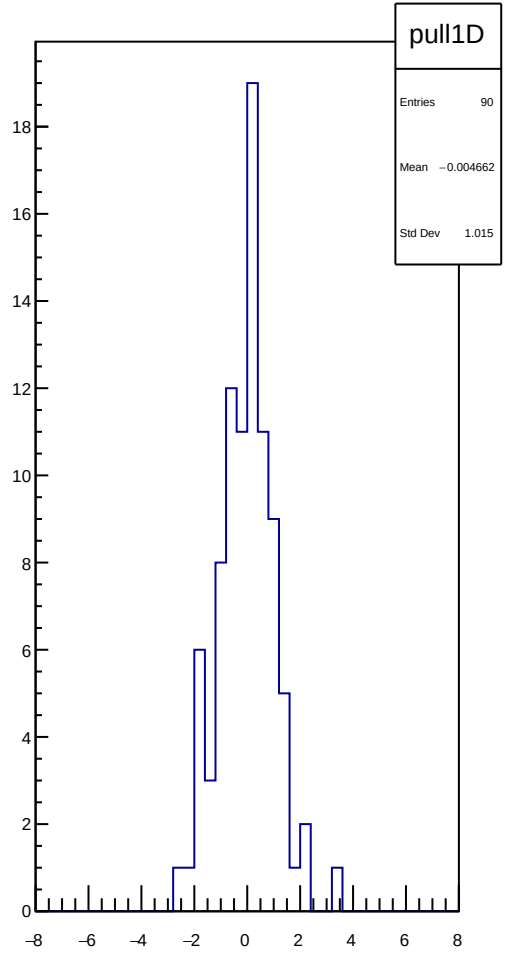

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.151e+05 / 89
p0 130.9 ± 0.109
500
400
300
200
100

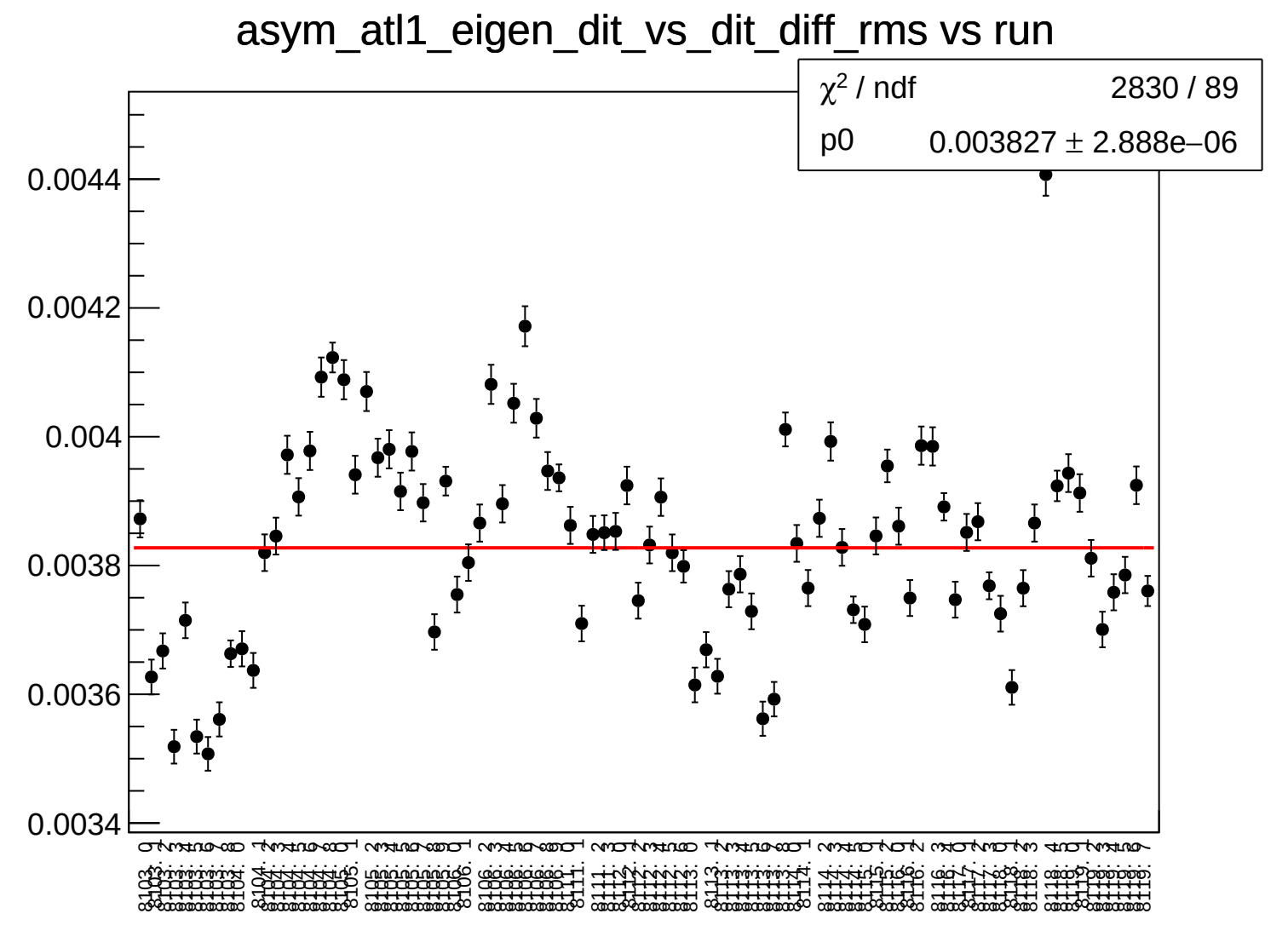

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.94 / 89
p0 0.2081± 0.1541
pull
Entries 90
Mean 110.4
Std Dev 0

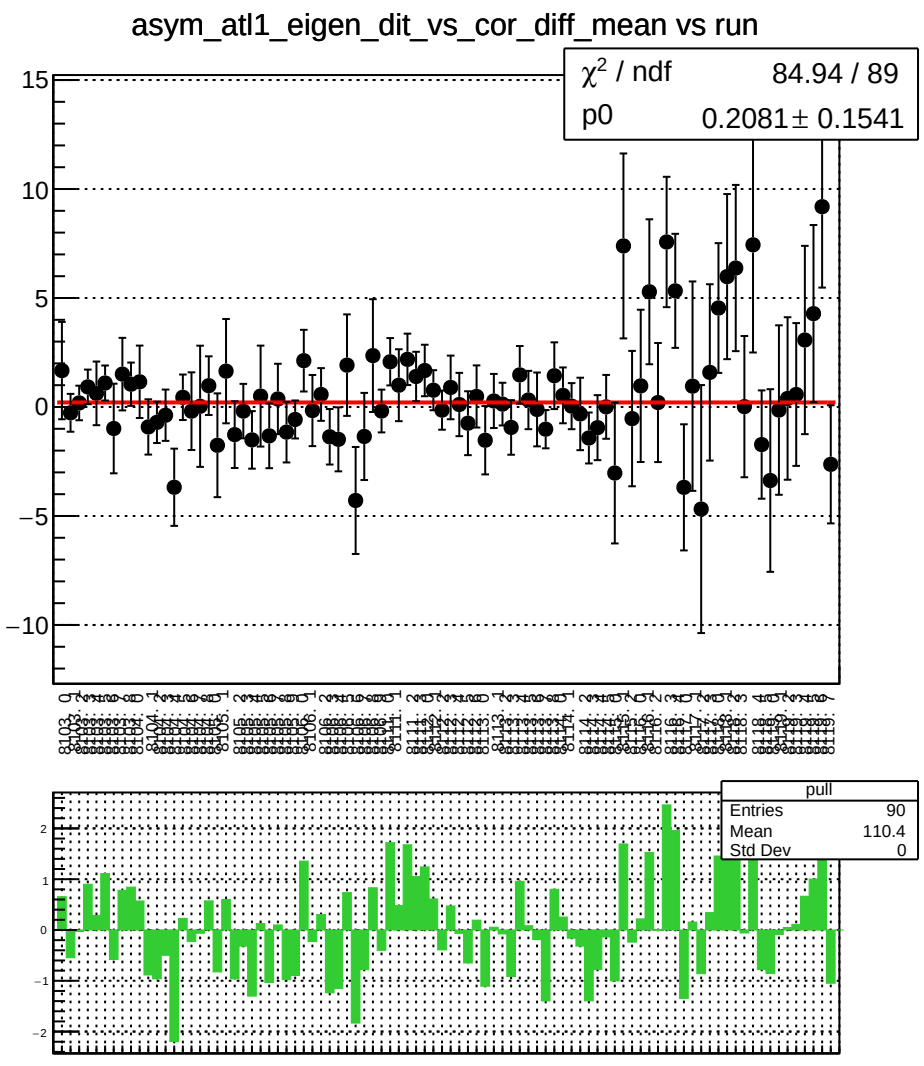

pull1D
Entries 90
Mean 0.07193
Std Dev 0.9688

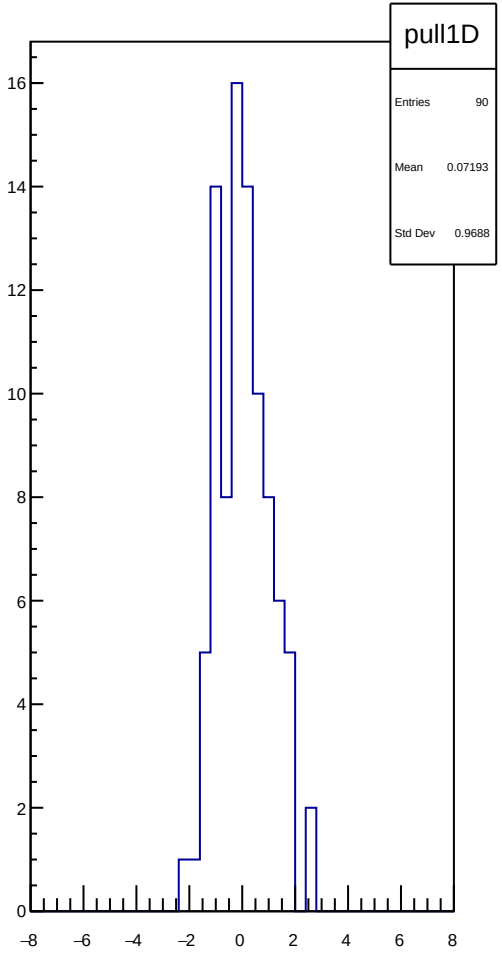

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.151e+05 / 89
p0 130.9 ± 0.109
500
400
300
200
100

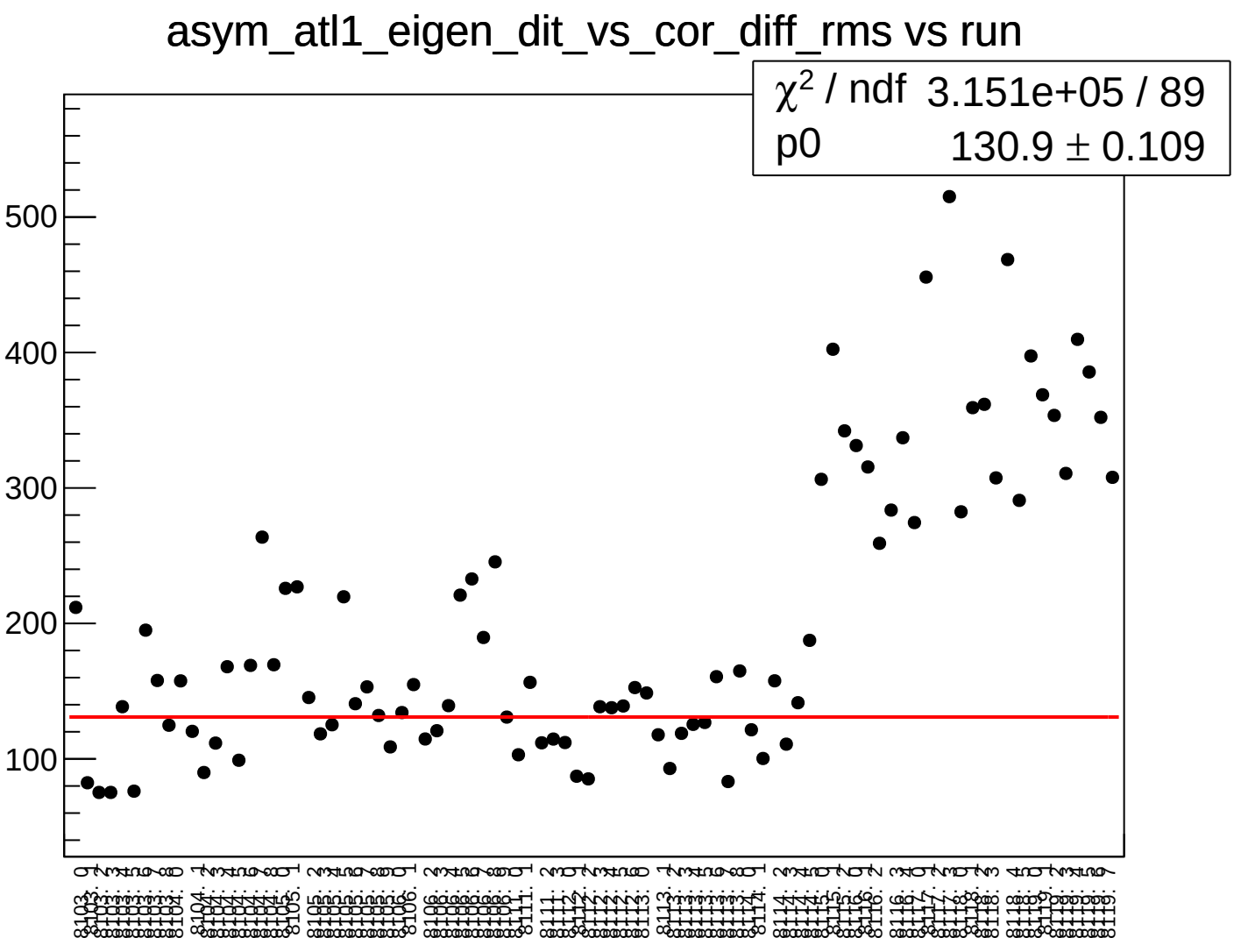

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.72 / 89
p0 −6.53e−06 ± 4.085e−06
pull
Entries 90
Mean 1480
Std Dev 0

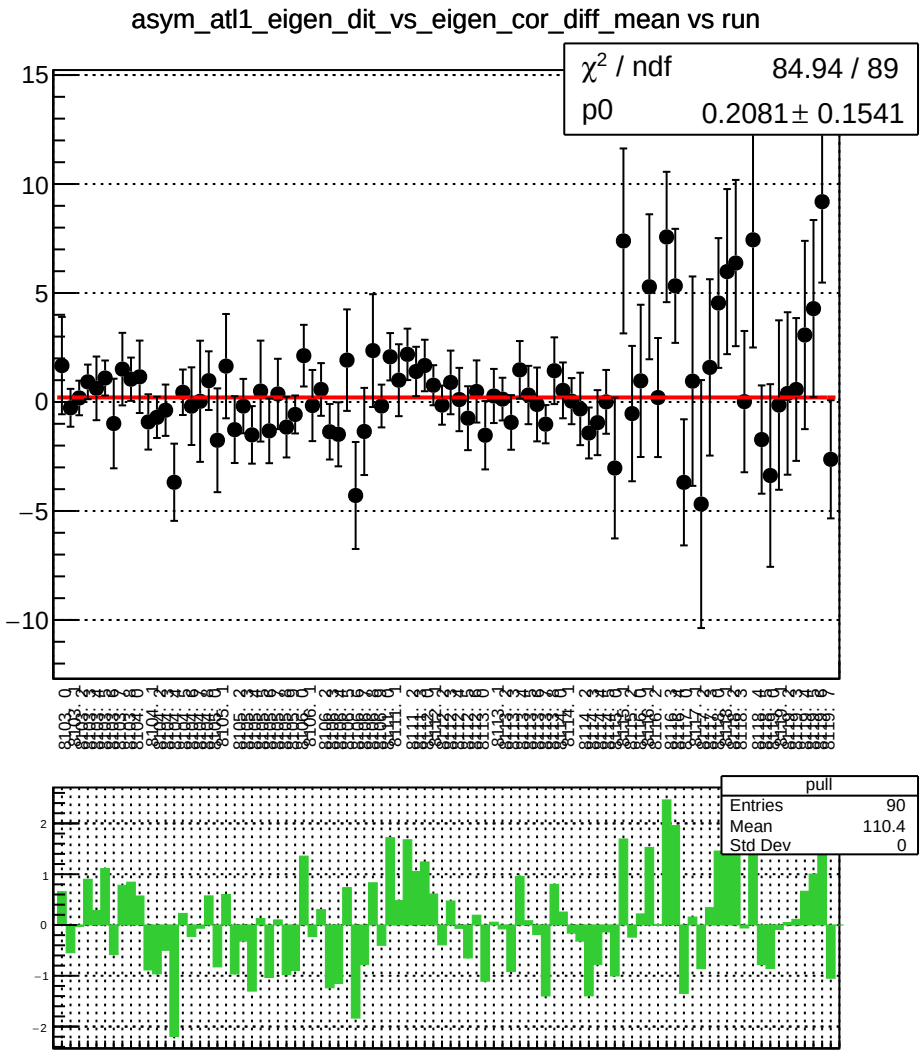

pull1D
Entries 90
Mean −0.004662
Std Dev 1.015

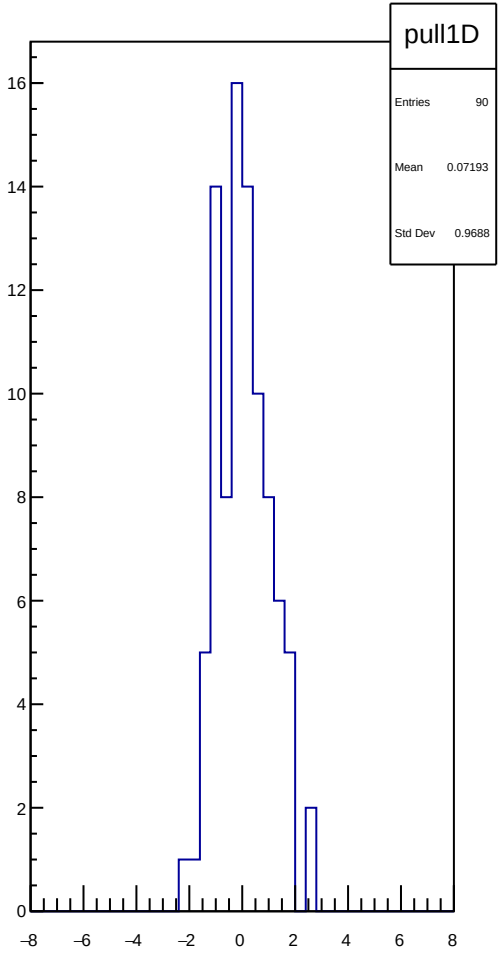

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2830 / 89
p0 0.003827 ± 2.888e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

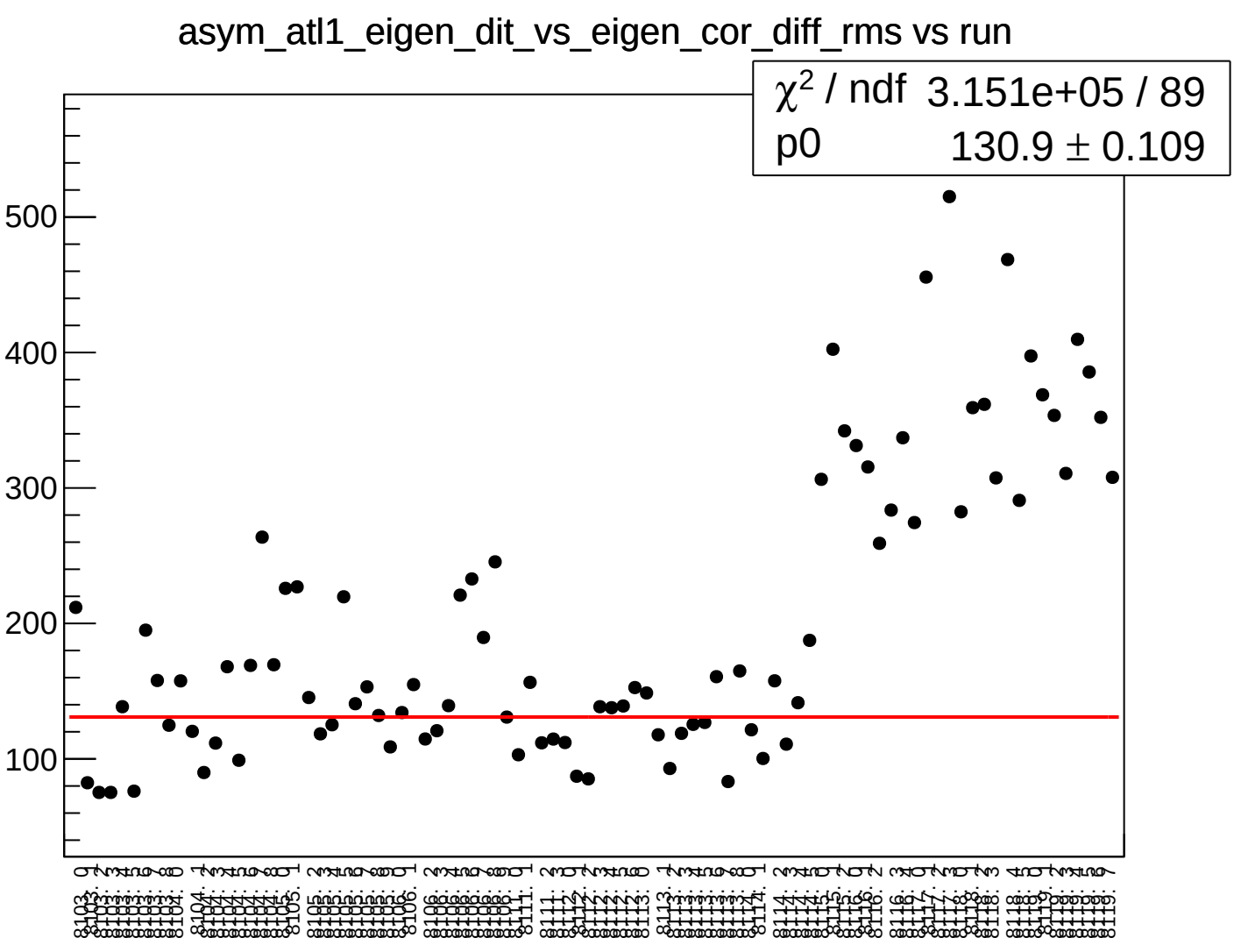

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.94 / 89
p0 0.2081± 0.1541
pull
Entries 90
Mean 110.4
Std Dev 0

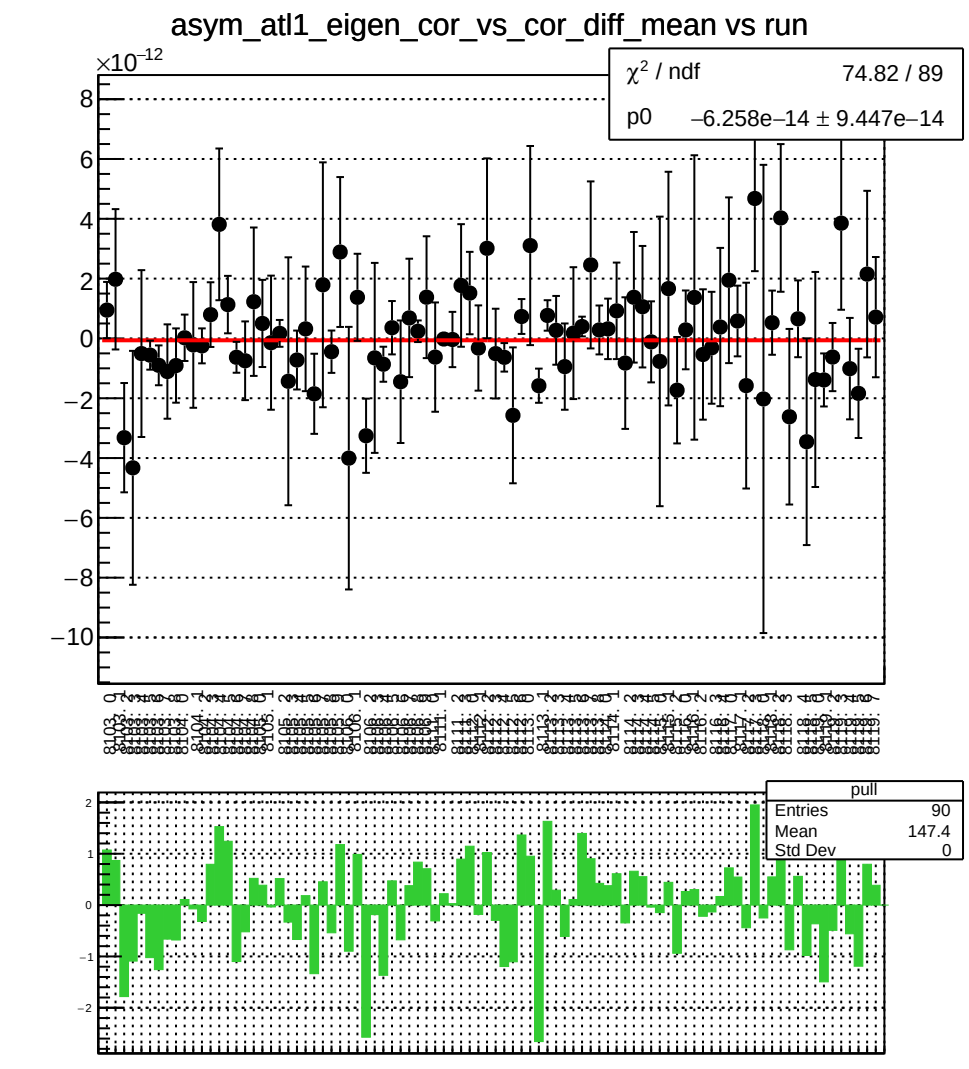

pull1D
Entries 90
Mean 0.07193
Std Dev 0.9688

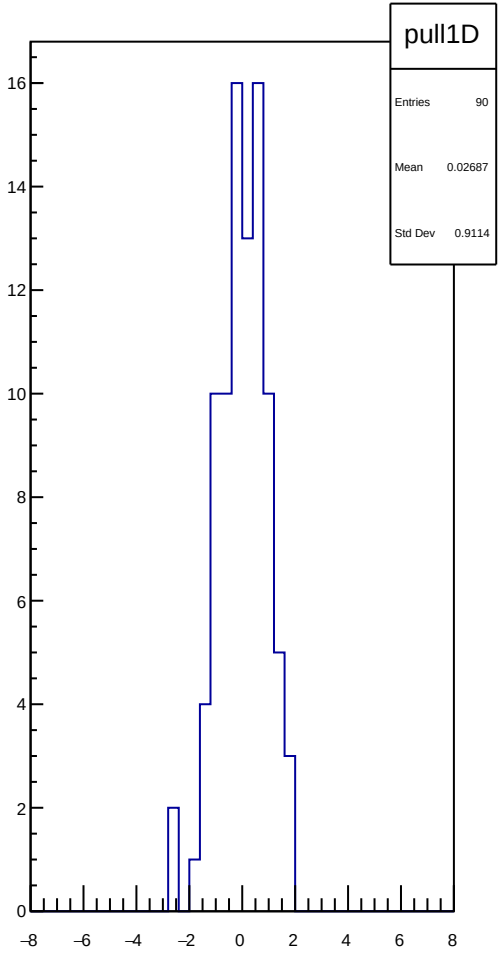

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.151e+05 / 89
p0 130.9 ± 0.109
500
400
300
200
100

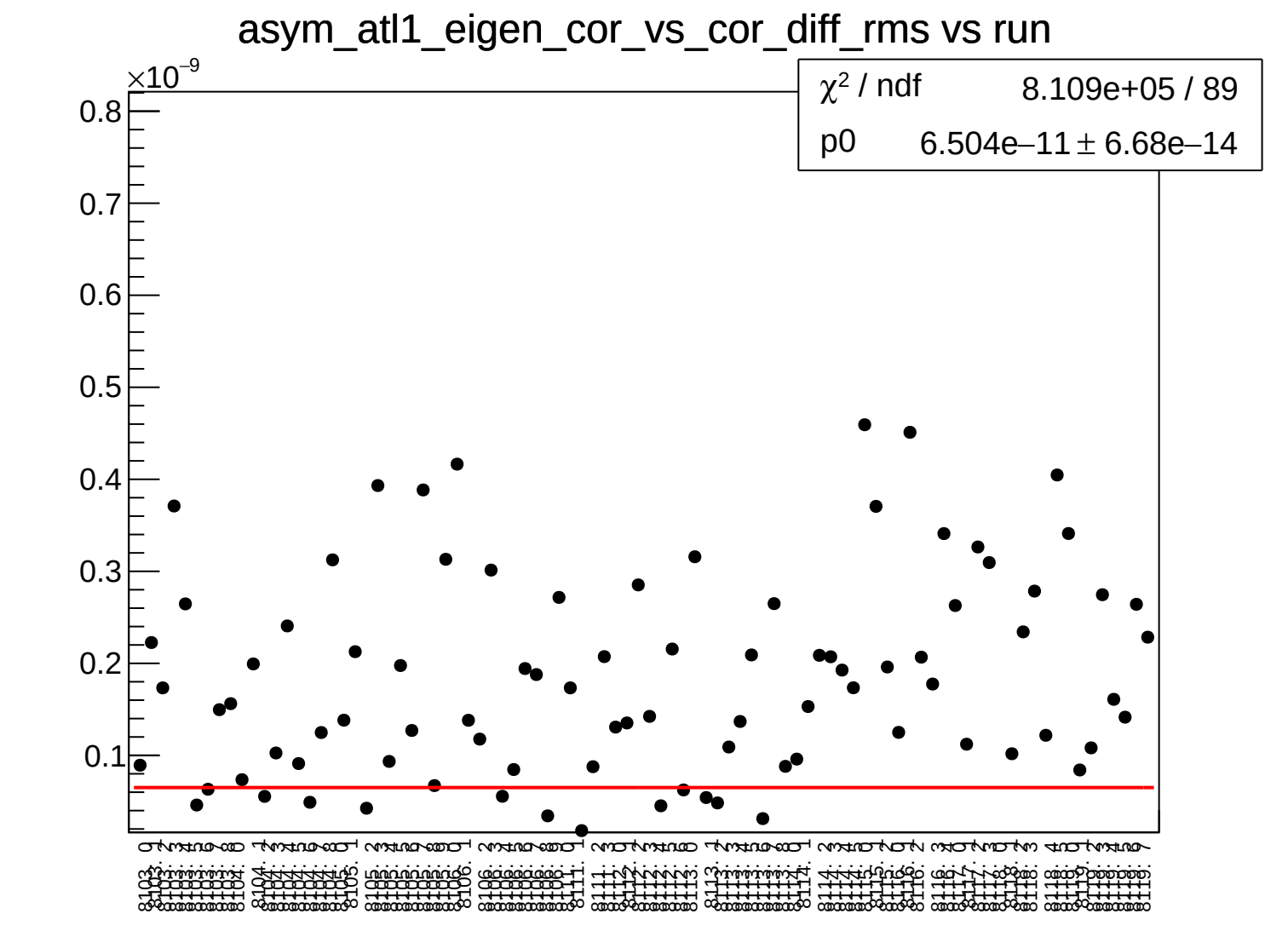

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.94 / 89
p0 0.2081 ± 0.1541
pull
Entries 90
Mean 110.4
Std Dev 0

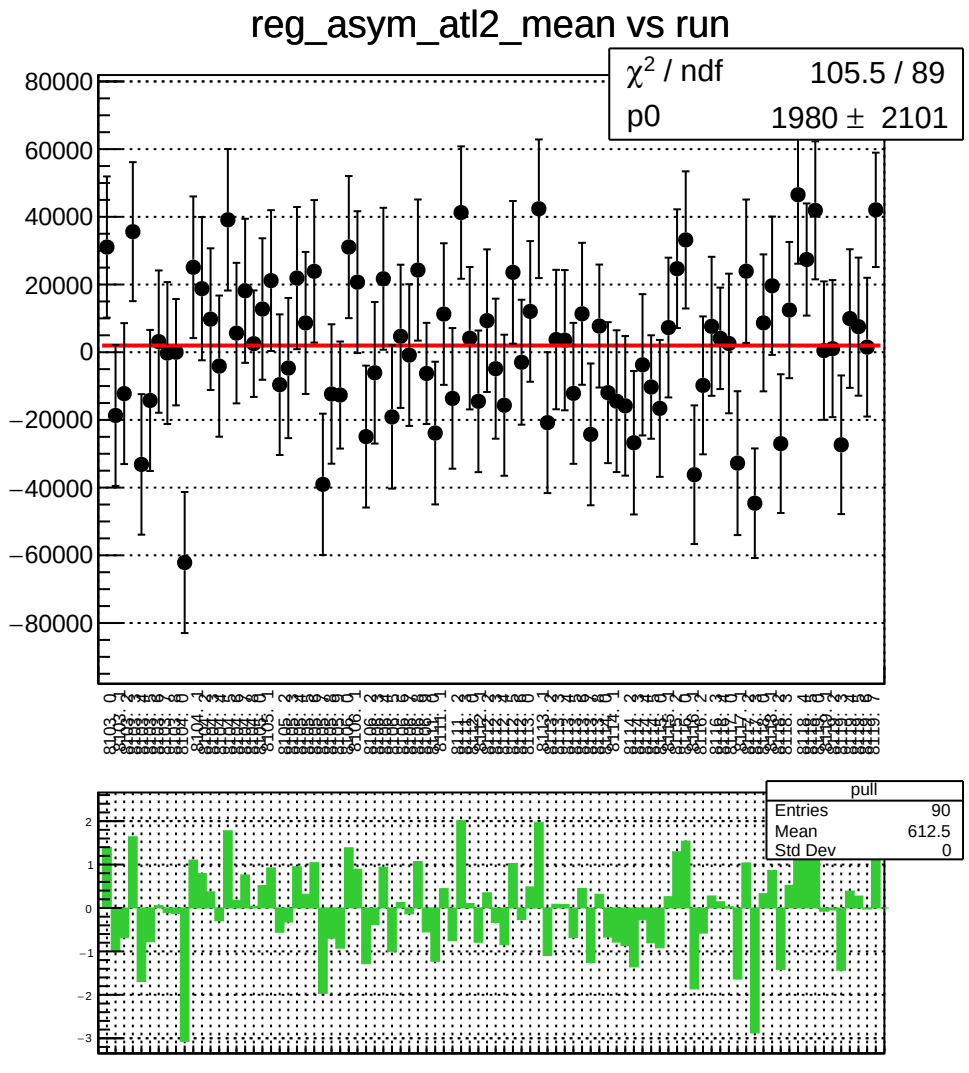

pull1D
Entries 90
Mean 0.07193
Std Dev 0.9688

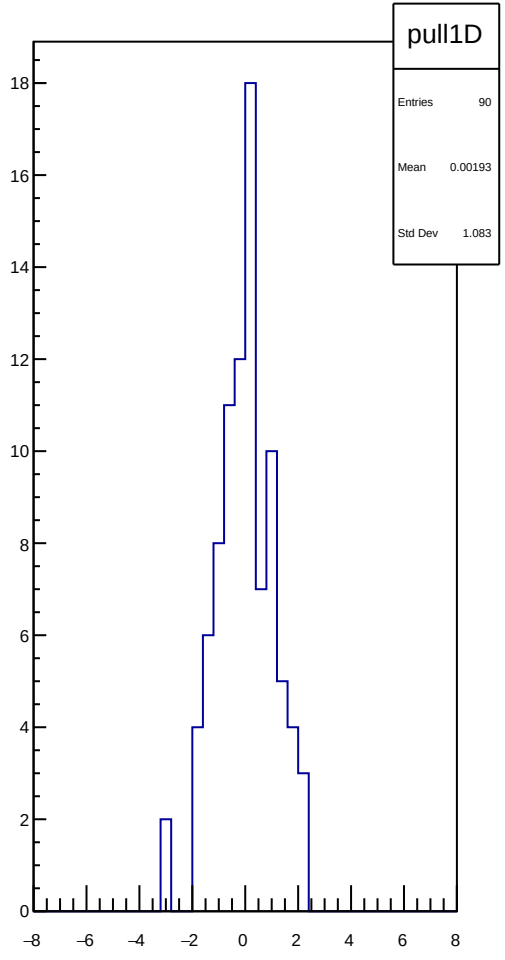

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.151e+05 / 89
p0 130.9 ± 0.109
500
400
300
200
100

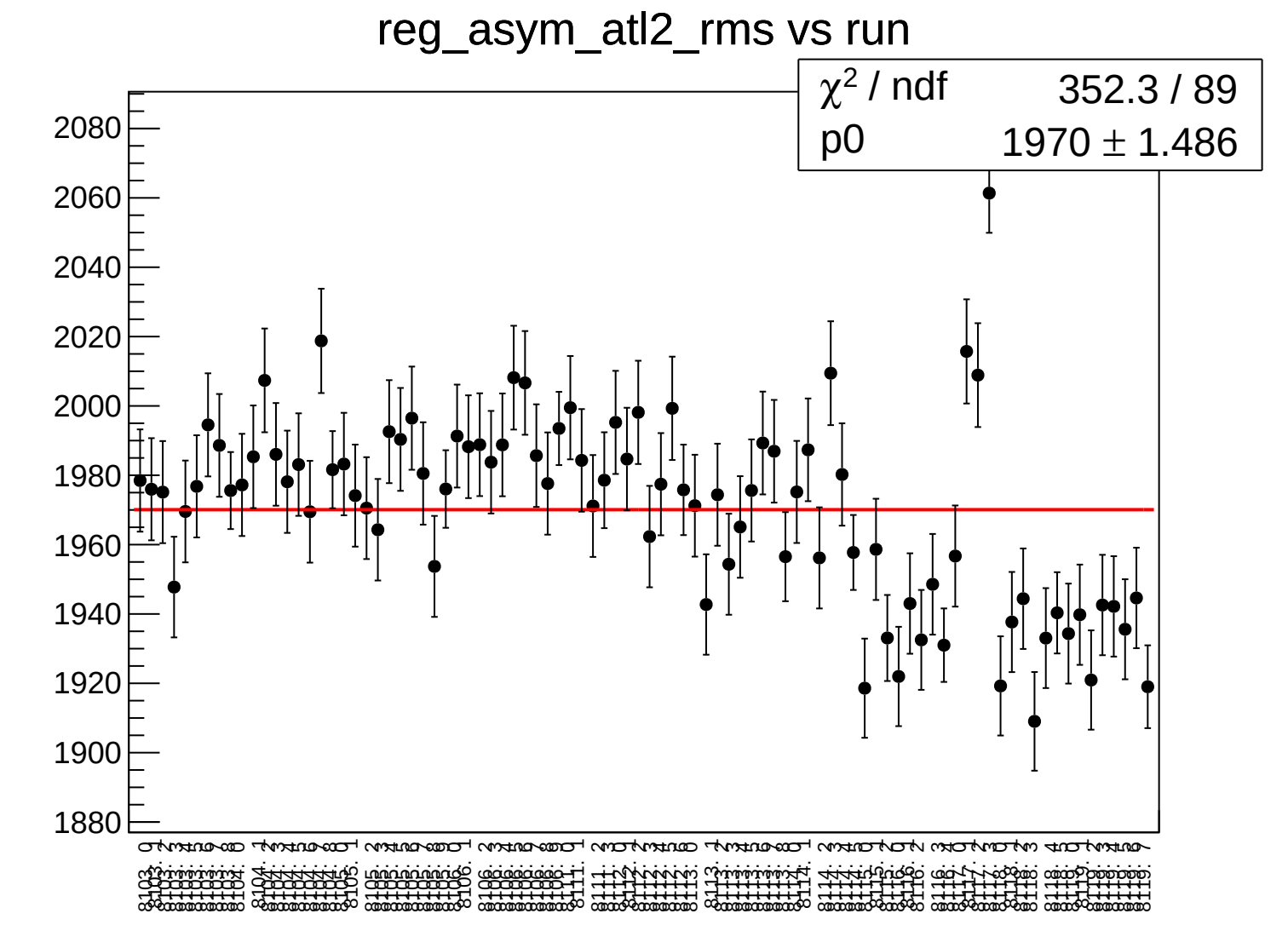

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.82 / 89
p0 −6.258e−14 ± 9.447e−14
pull
Entries 90
Mean 147.4
Std Dev 0

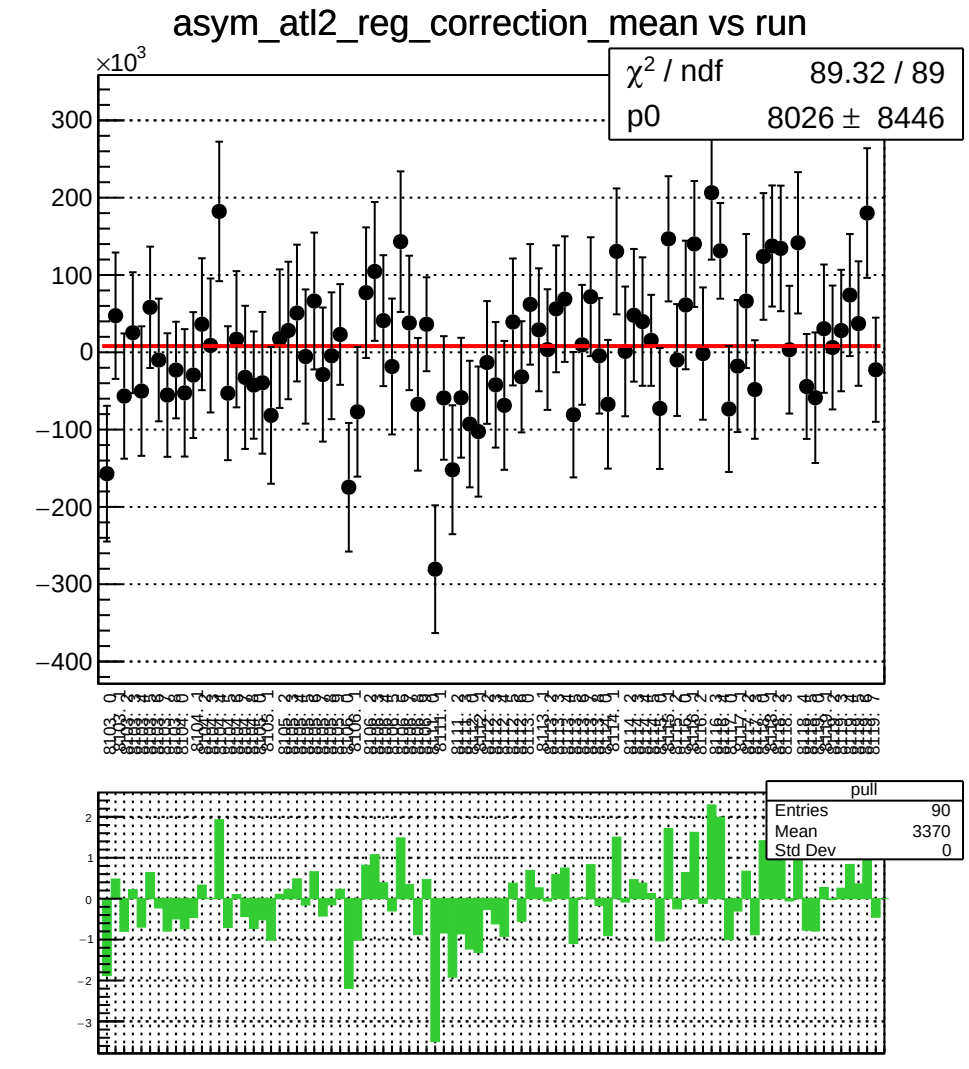

pull1D
Entries 90
Mean 0.02687
Std Dev 0.9114

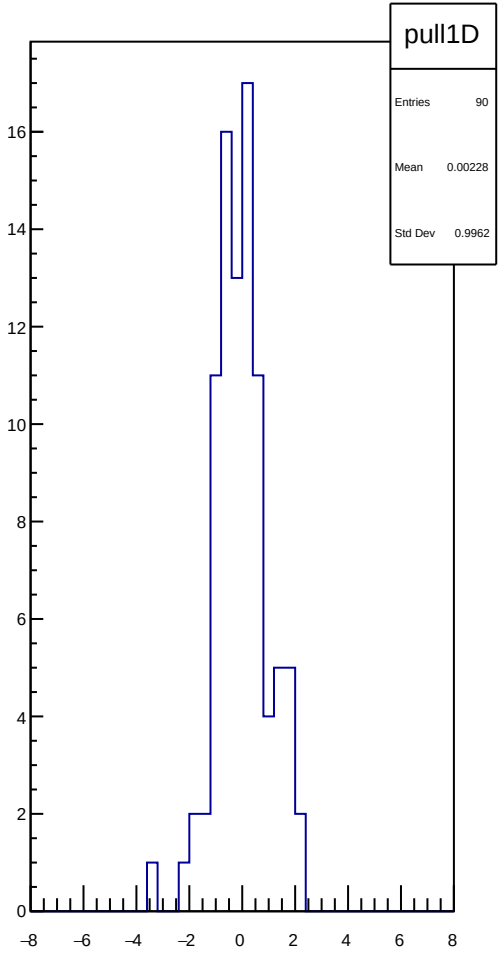

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.109e+05 / 89
p0 6.504e−11 ± 6.68e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

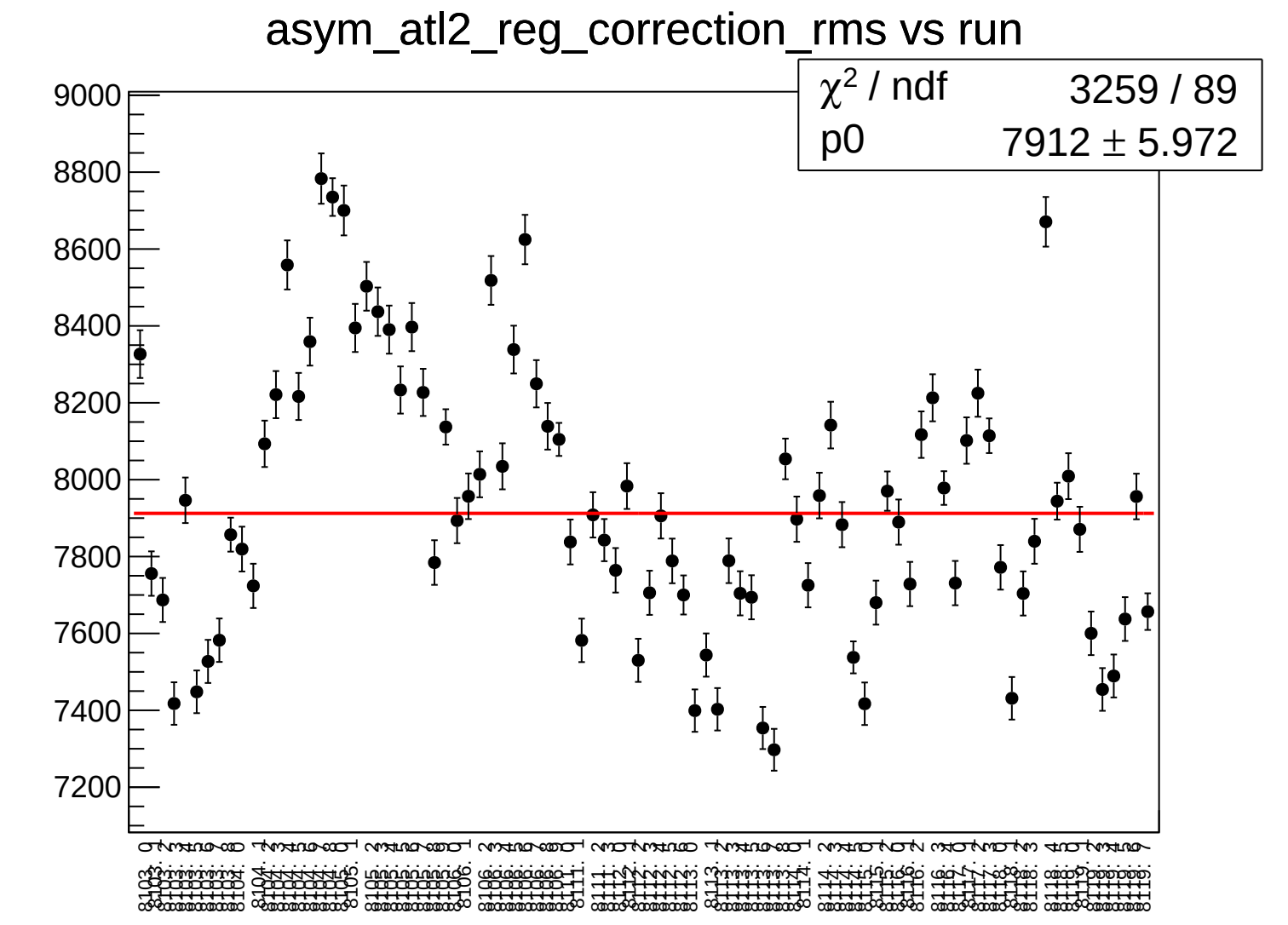

reg_asym_atl2_mean vs run
χ² / ndf 105.5 / 89
p0 1980 ± 2101
pull
Entries 90
Mean 612.5
Std Dev 0

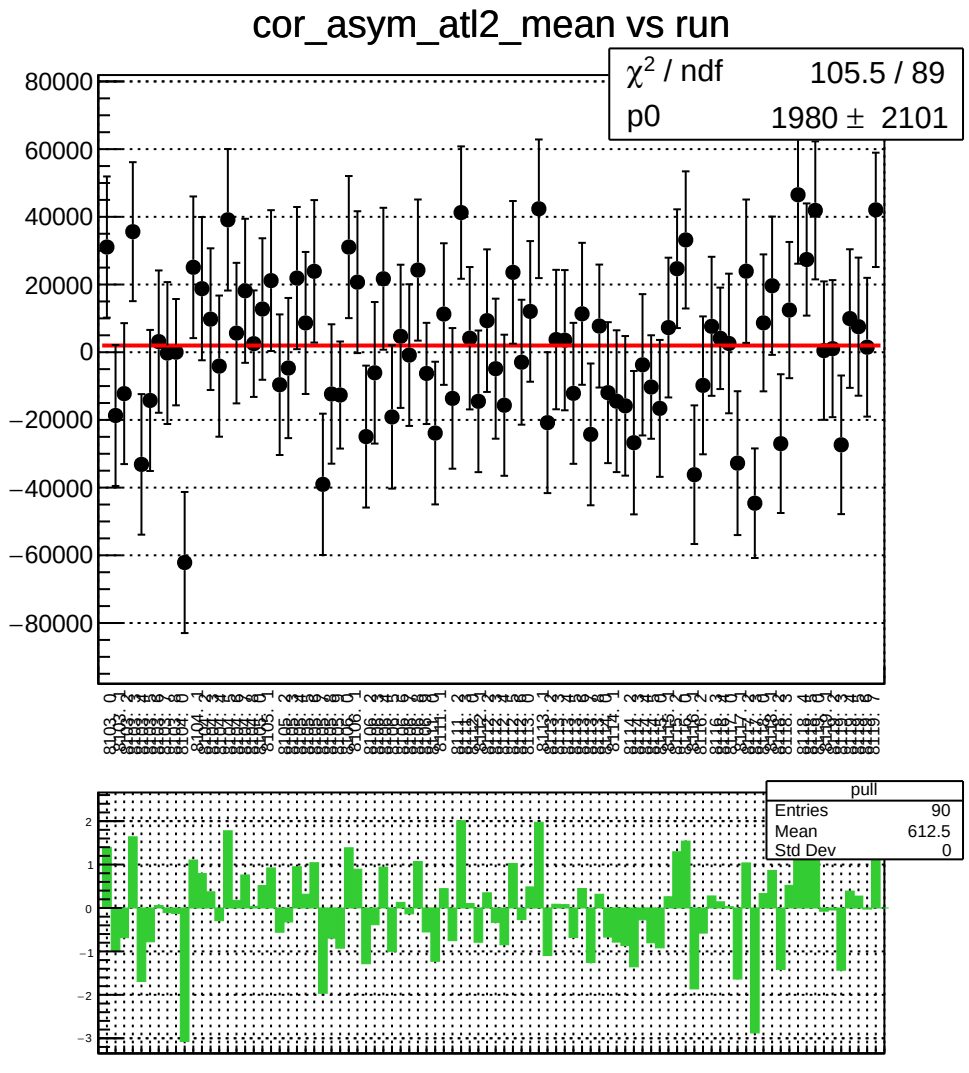

pull1D
Entries 90
Mean 0.00193
Std Dev 1.083

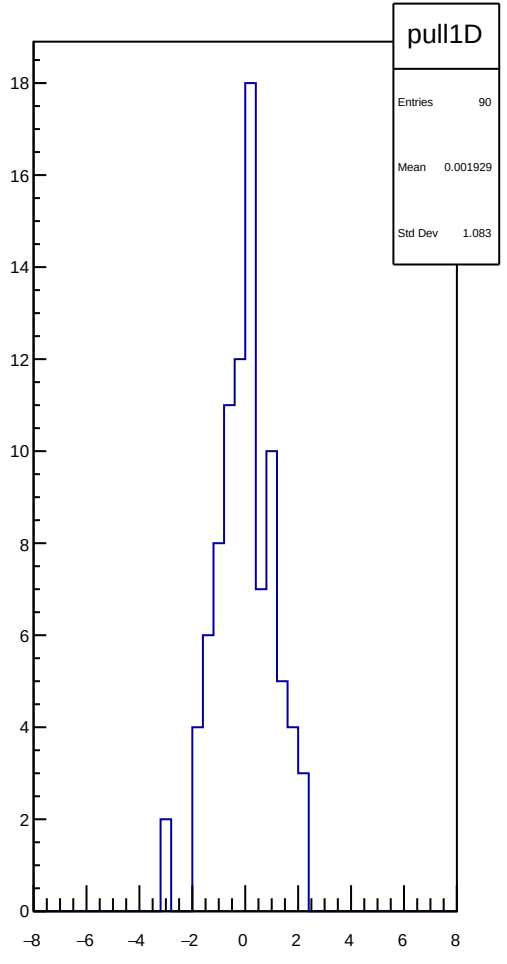

reg_asym_atl2_rms vs run
χ^2 / ndf 352.3 / 89
p0 1970 ± 1.486
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

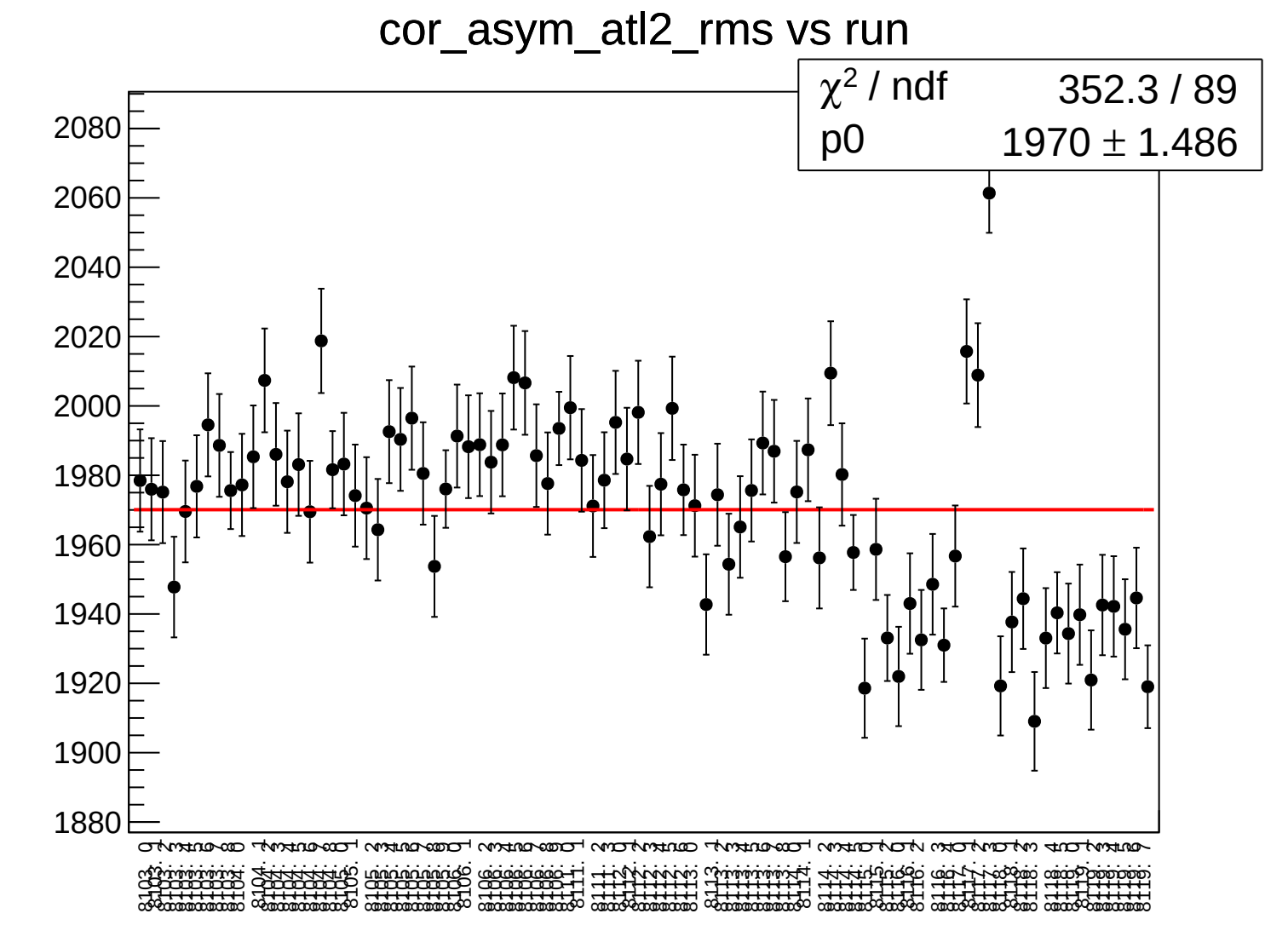

asym_atl2_reg_correction_mean vs run
χ² / ndf 89.32 / 89
p0 8026 ± 8446
×10³
pull
Entries 90
Mean 3370
Std Dev 0

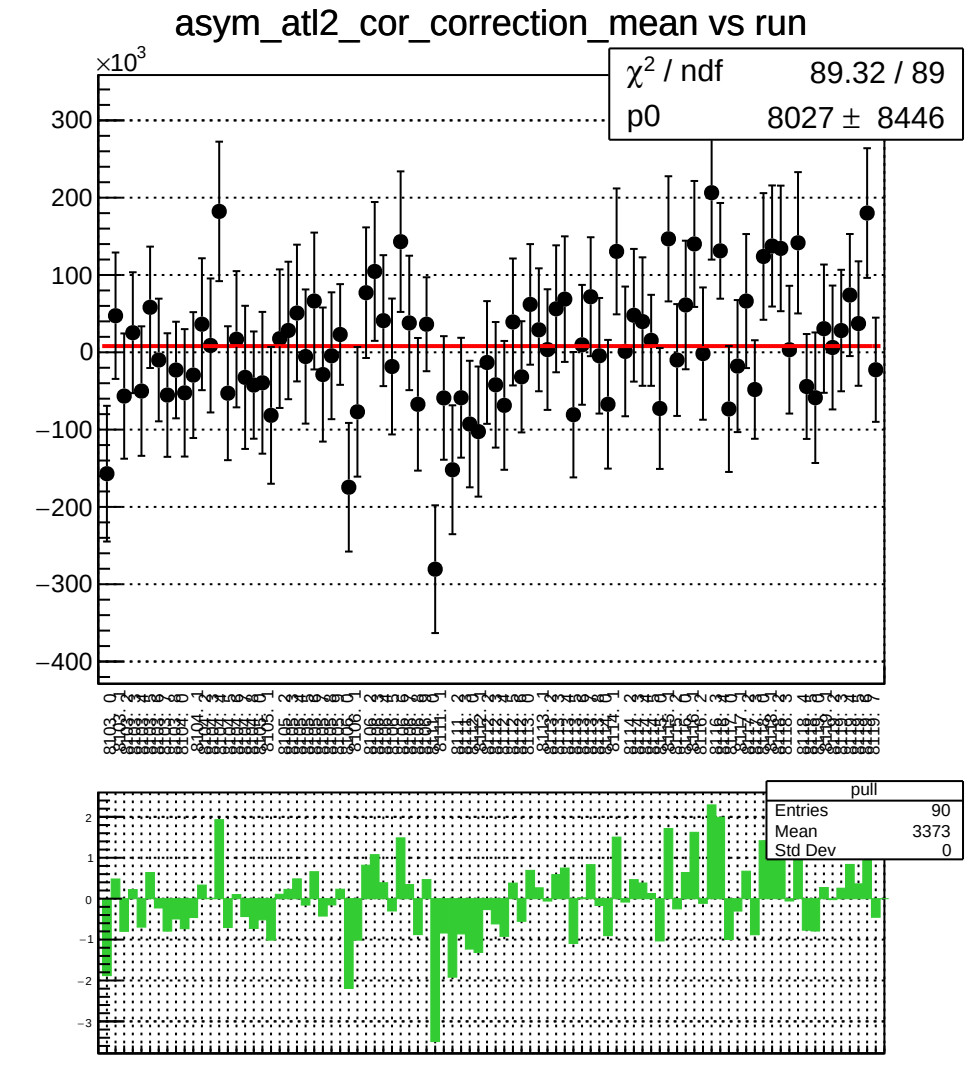

pull1D
Entries 90
Mean 0.00228
Std Dev 0.9962

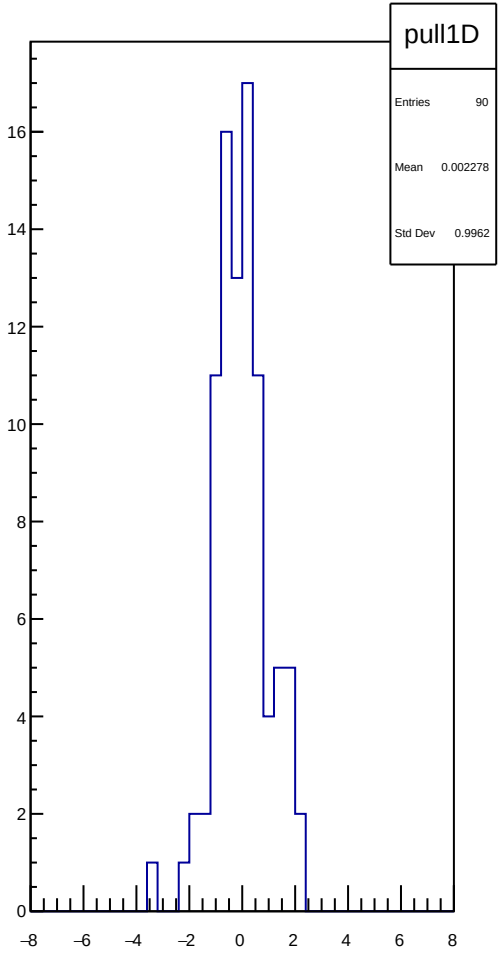

asym_atl2_reg_correction_rms vs run
χ² / ndf 3259 / 89
p0 7912 ± 5.972
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

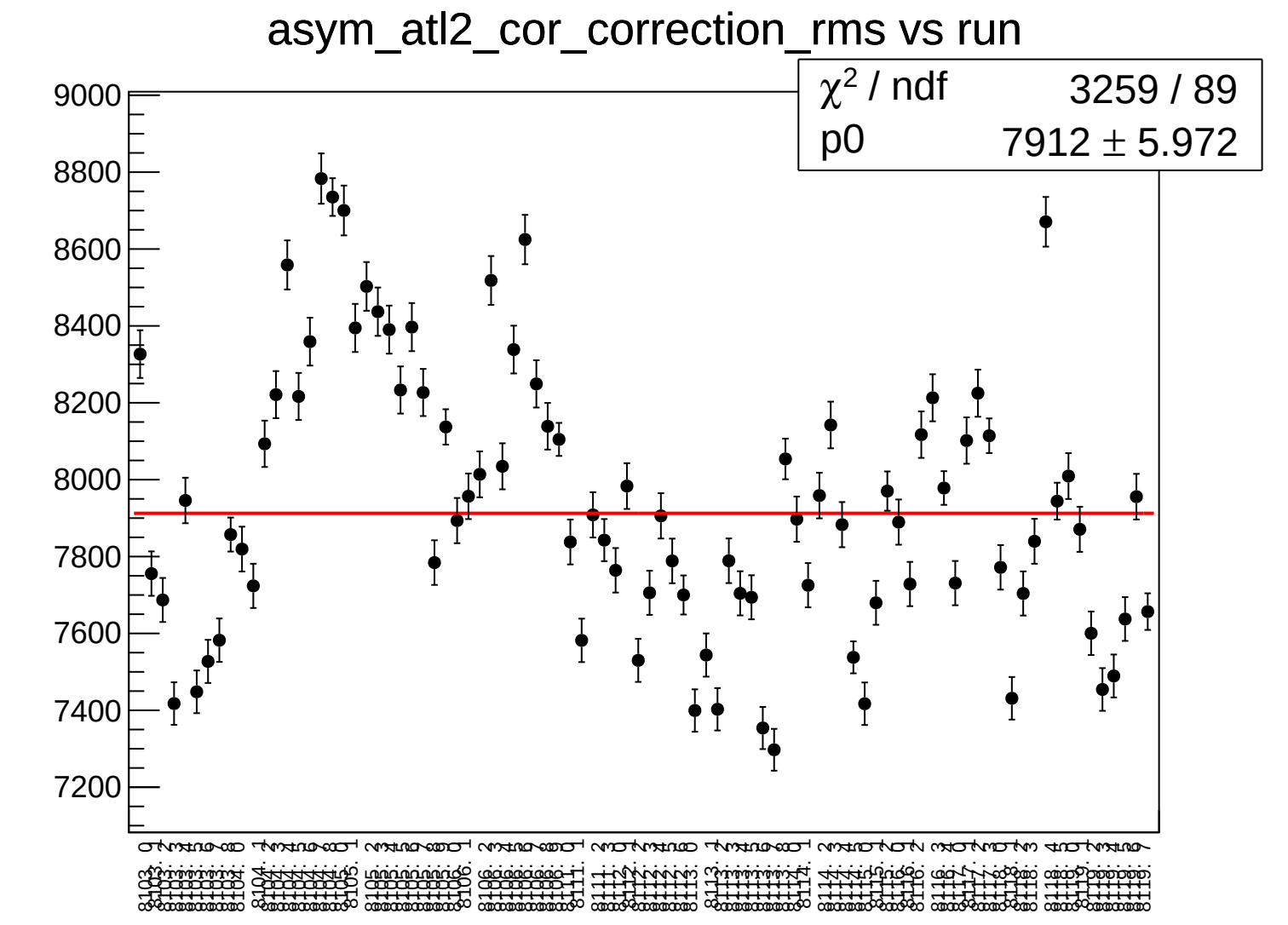

cor_asym_atl2_mean vs run
χ² / ndf 105.5 / 89
p0 1980 ± 2101
pull
Entries 90
Mean 612.5
Std Dev 0

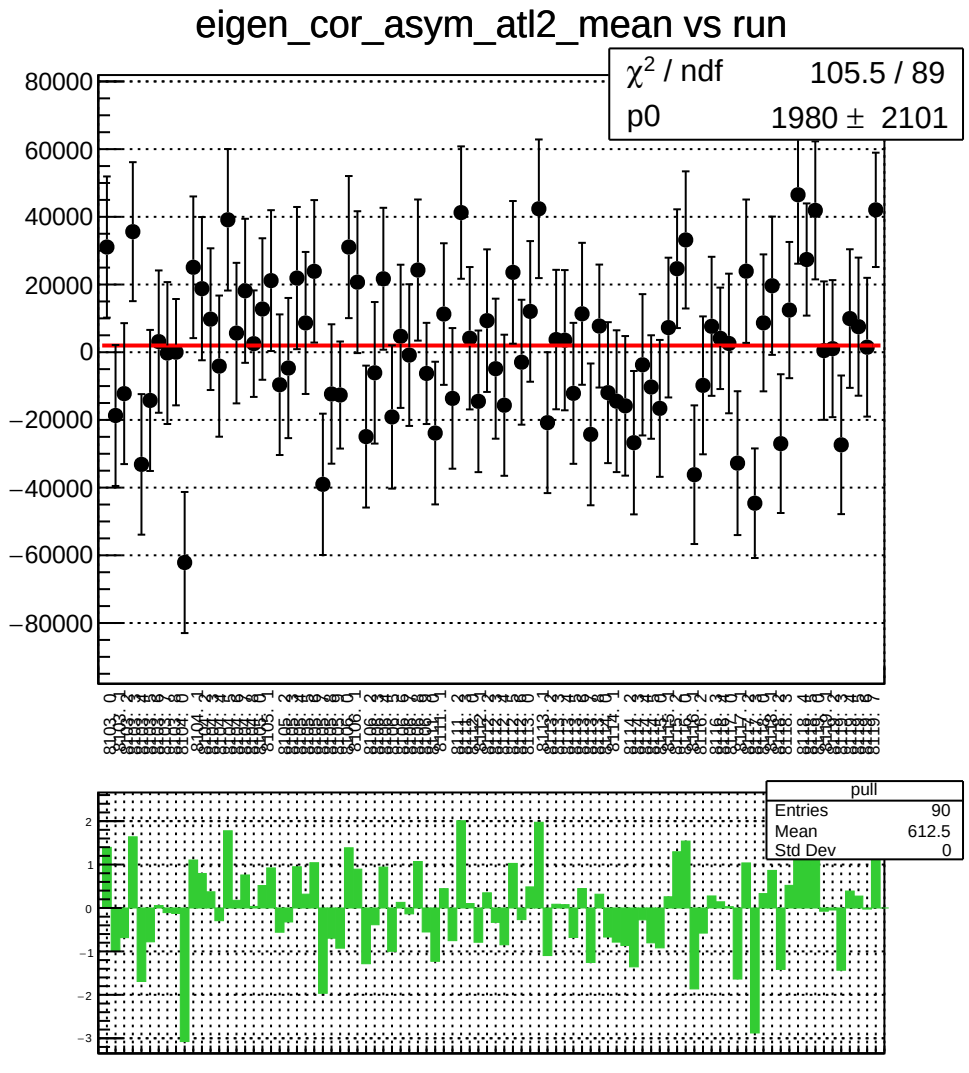

pull1D
Entries 90
Mean 0.001929
Std Dev 1.083

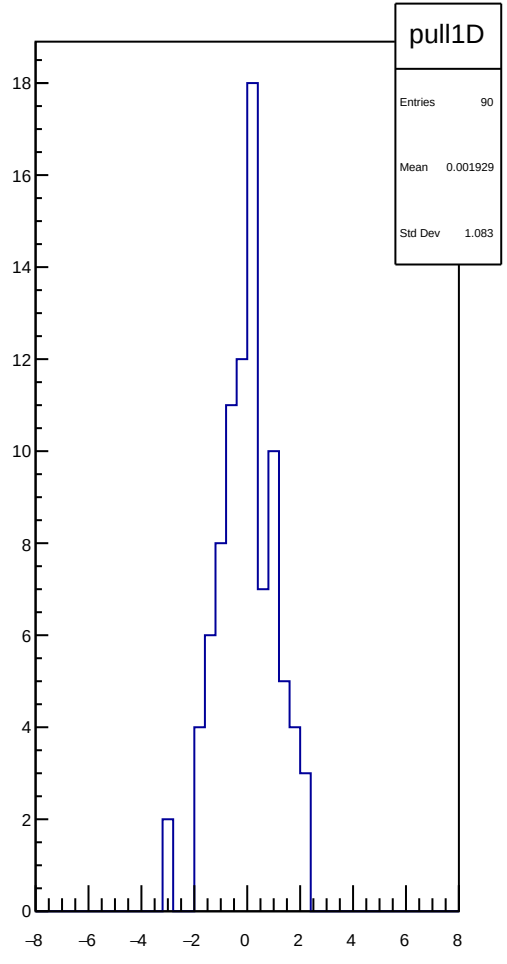

cor_asym_atl2_rms vs run
χ^2 / ndf 352.3 / 89
p0 1970 ± 1.486
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

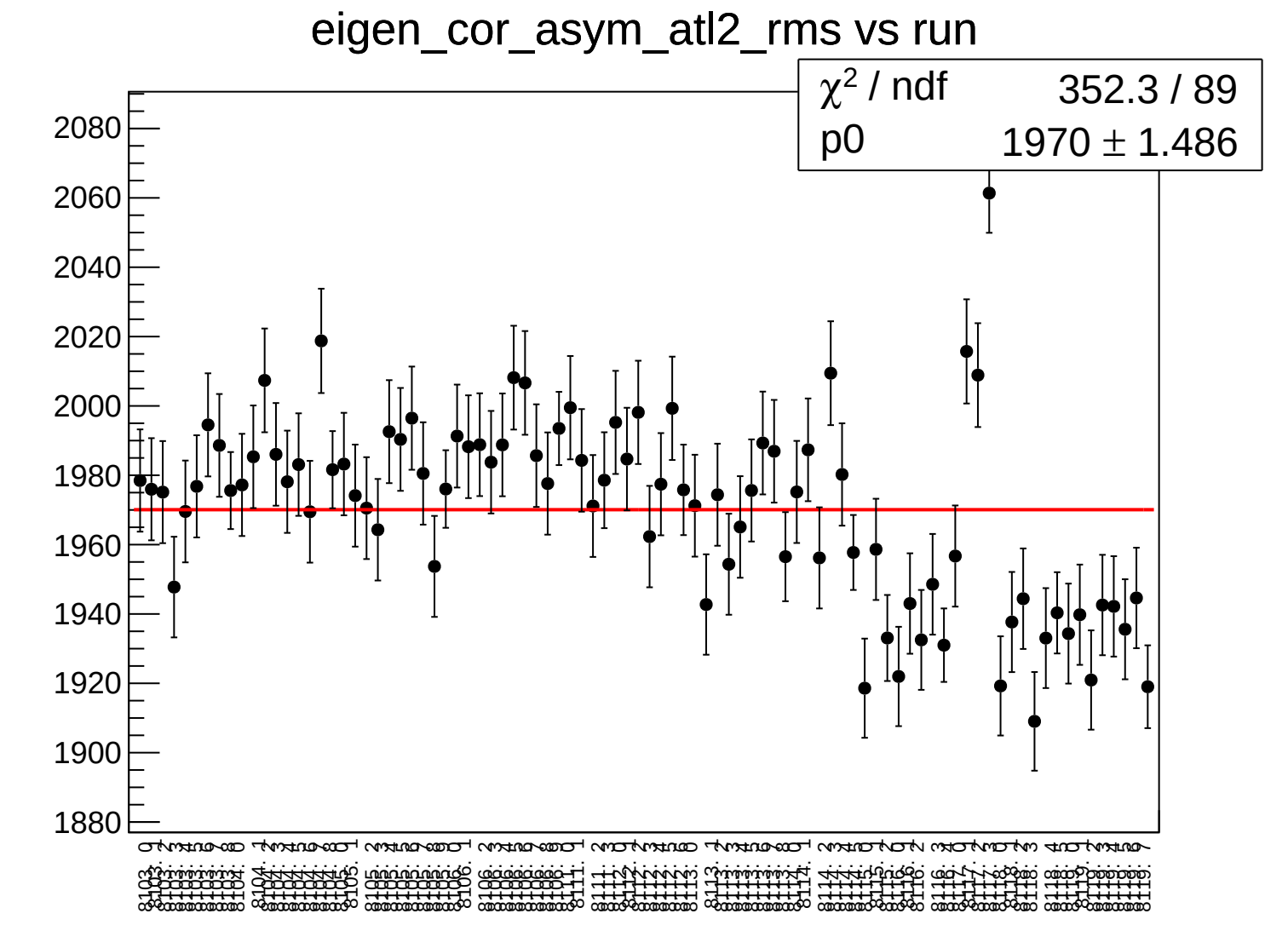

asym_atl2_cor_correction_mean vs run
χ² / ndf 89.32 / 89
p0 8027 ± 8446
×10³
pull
Entries 90
Mean 3373
Std Dev 0

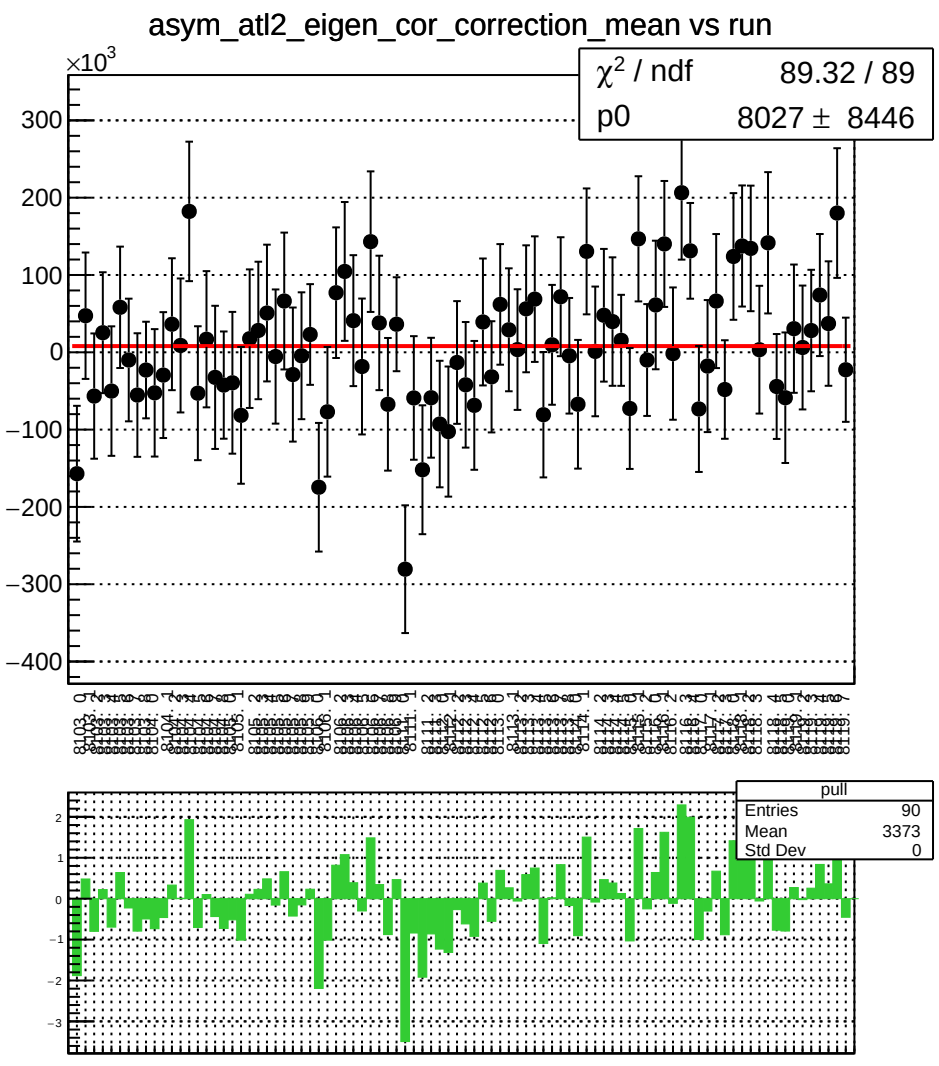

pull1D
Entries 90
Mean 0.002278
Std Dev 0.9962

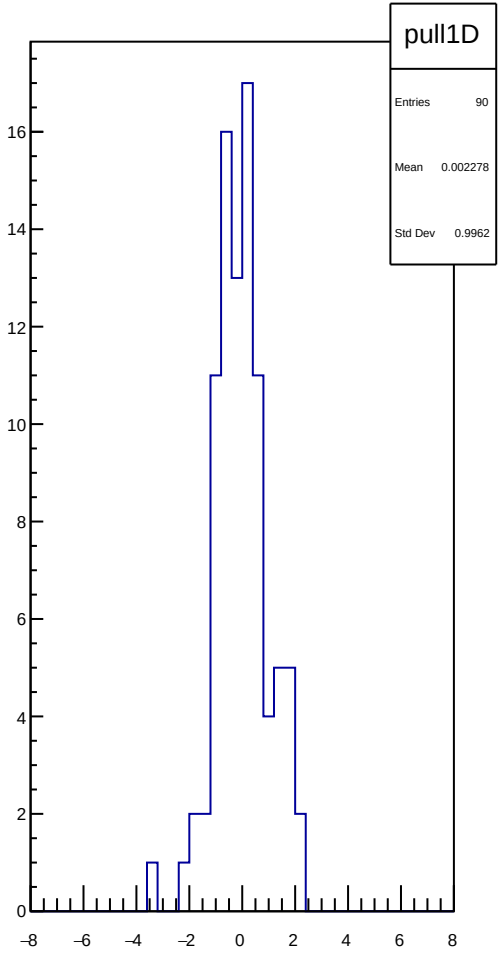

asym_atl2_cor_correction_rms vs run
χ² / ndf 3259 / 89
p0 7912 ± 5.972
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

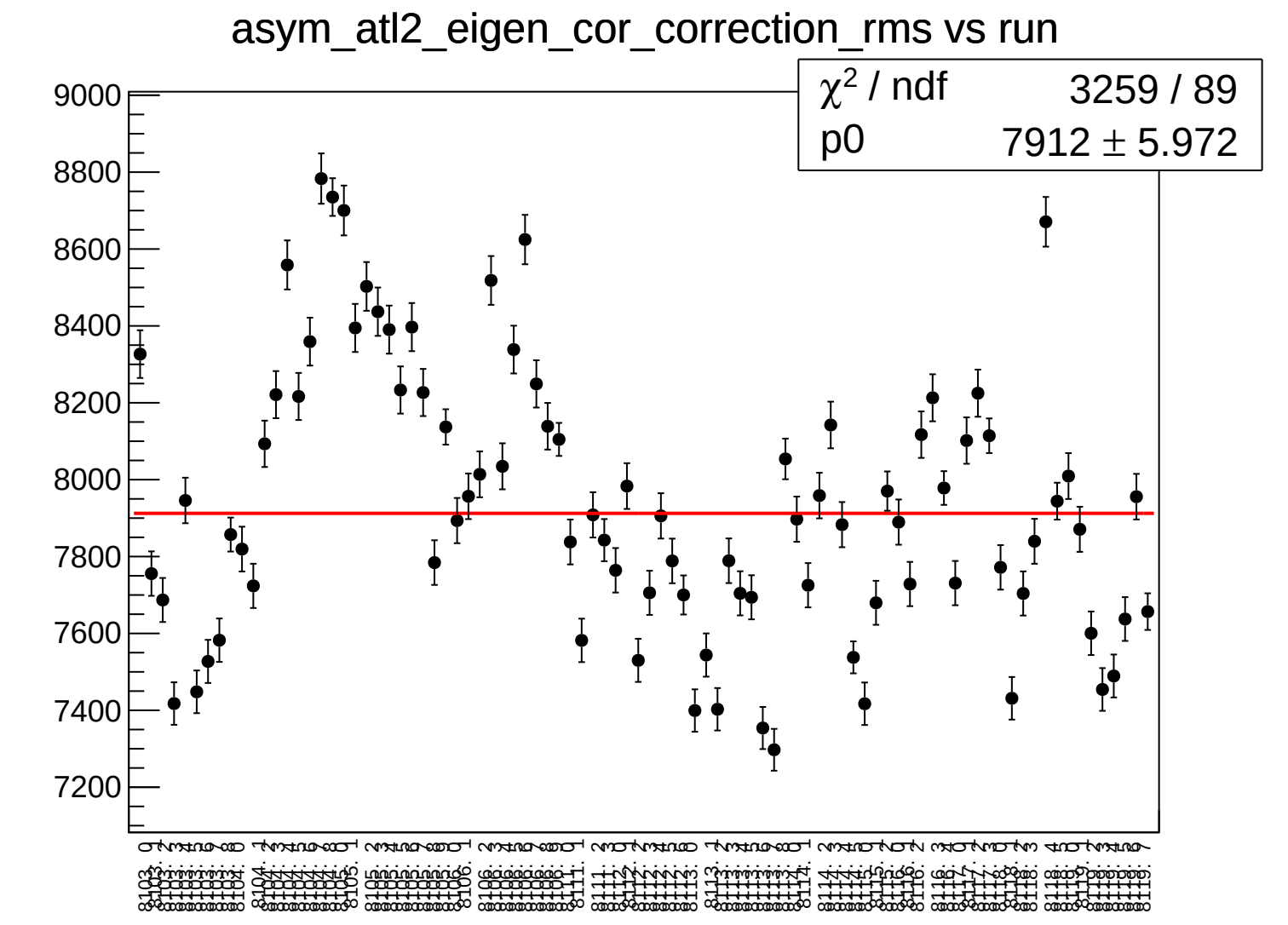

eigen_cor_asym_atl2_mean vs run
χ² / ndf 105.5 / 89
p0 1980 ± 2101
pull
Entries 90
Mean 612.5
Std Dev 0

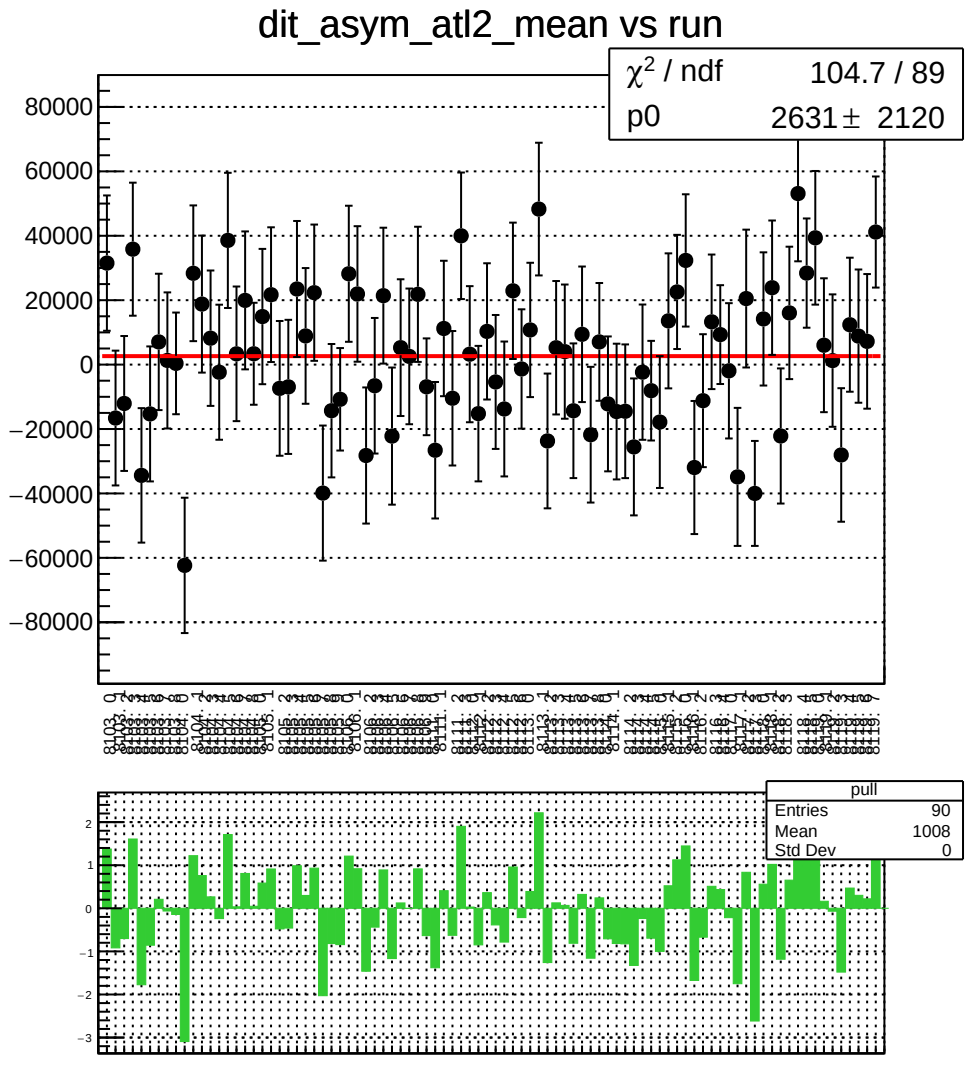

pull1D
Entries 90
Mean 0.001929
Std Dev 1.083

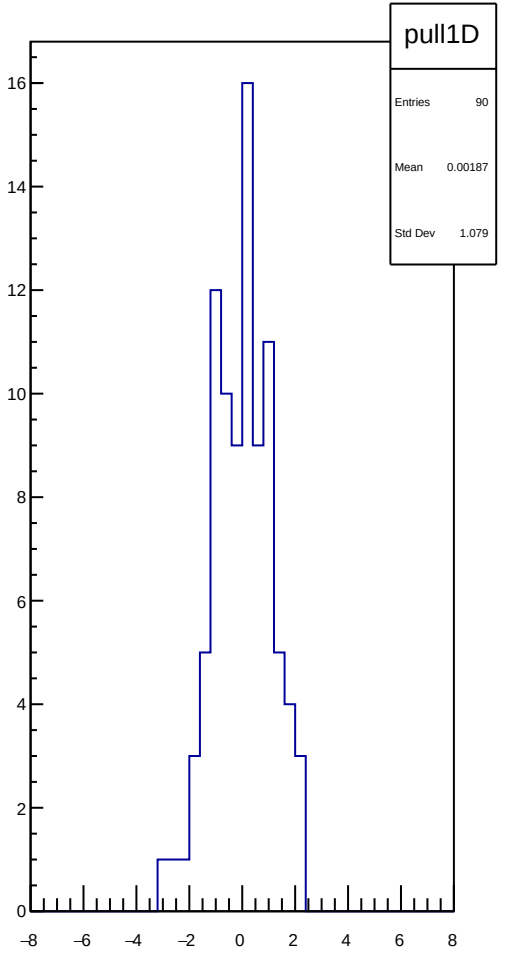

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 352.3 / 89
p0 1970 ± 1.486
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

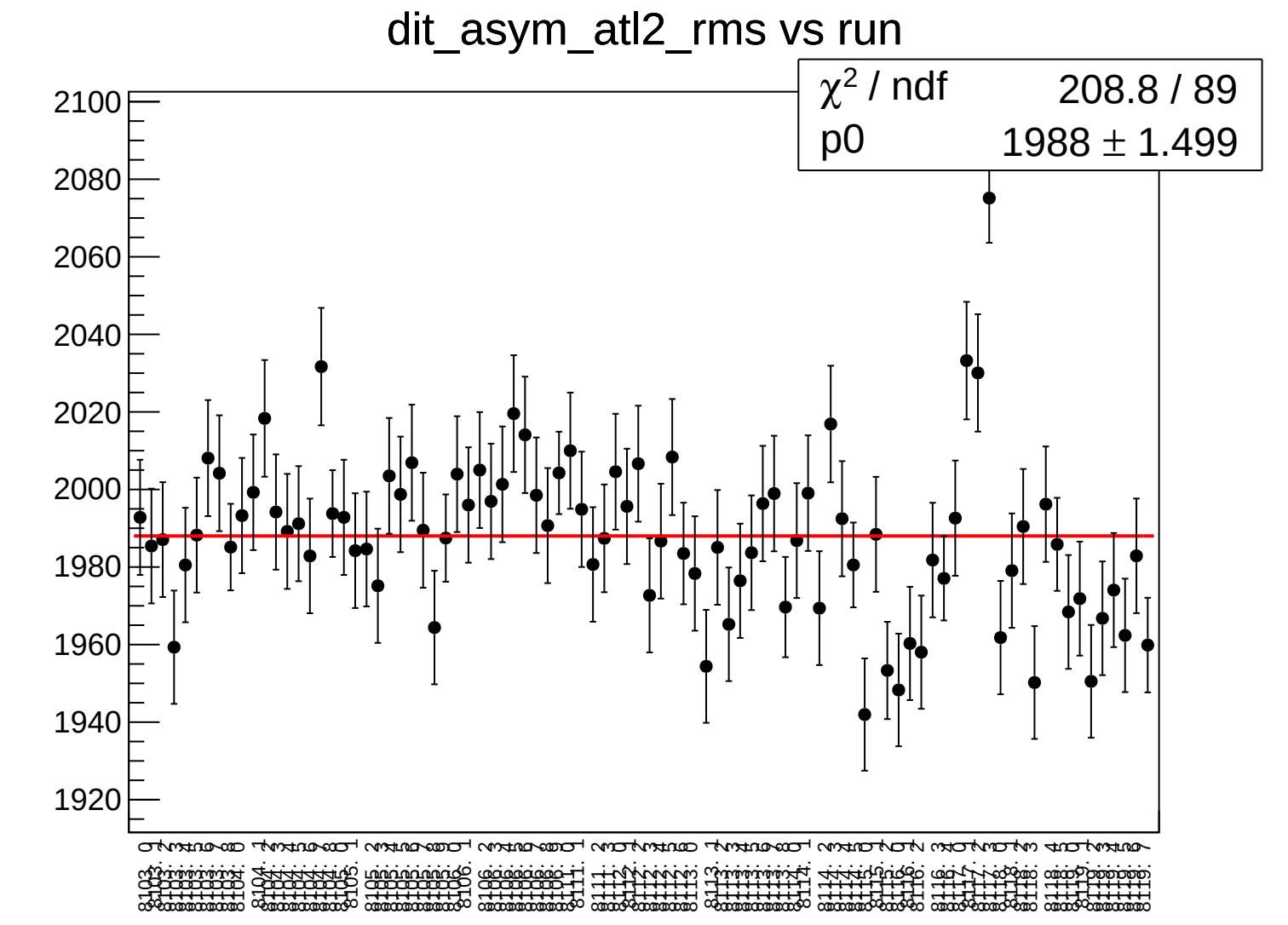

asym_atl2_eigen_cor_correction_mean vs run
χ^2 / ndf 89.32 / 89
p0 8027 ± 8446
×10^3
pull
Entries 90
Mean 3373
Std Dev 0

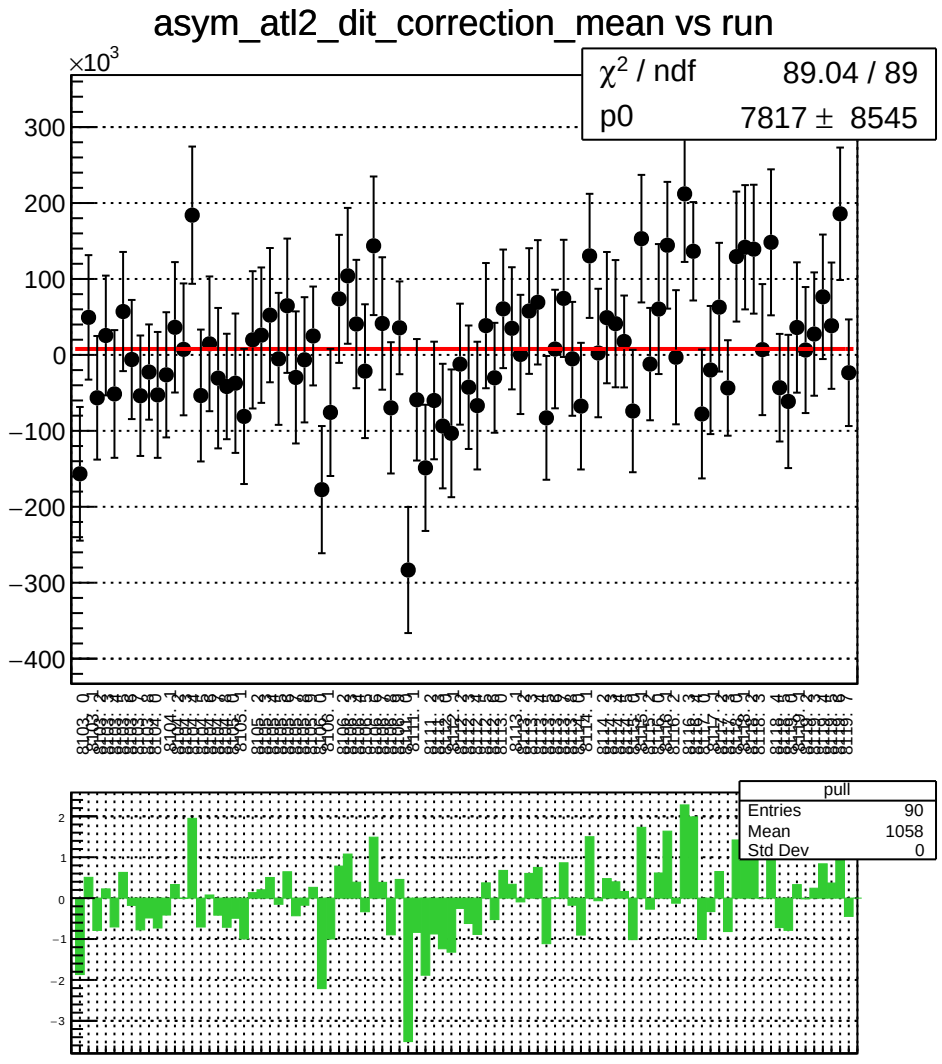

pull1D
Entries 90
Mean 0.002278
Std Dev 0.9962

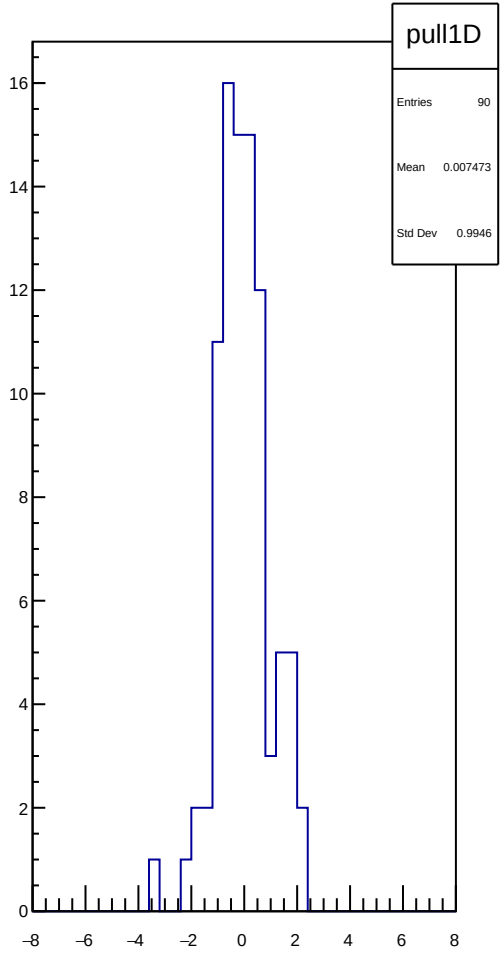

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 3259 / 89
p0 7912 ± 5.972
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

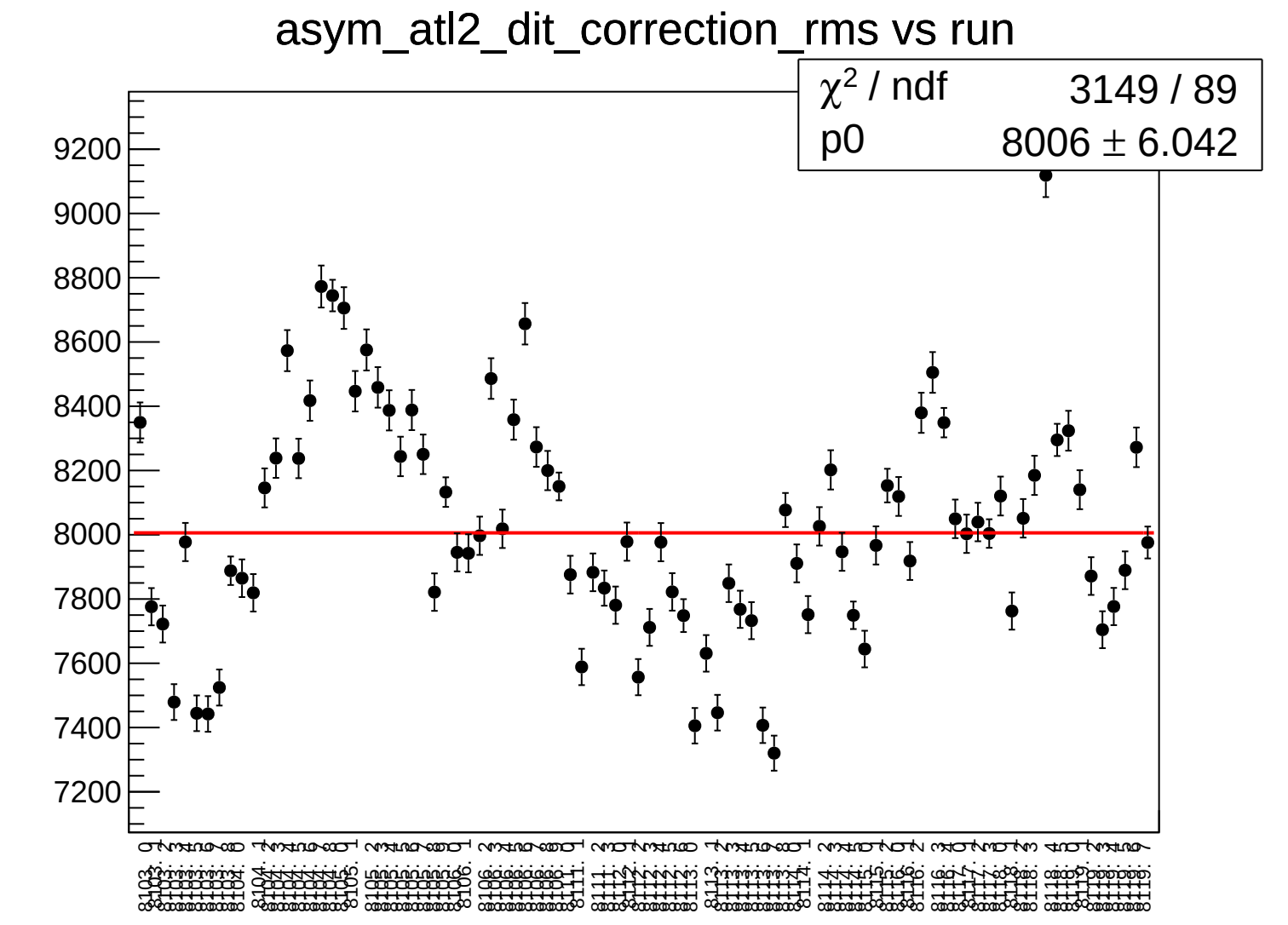

dit_asym_atl2_mean vs run
χ² / ndf 104.7 / 89
p0 2631 ± 2120
pull
Entries 90
Mean 1008
Std Dev 0

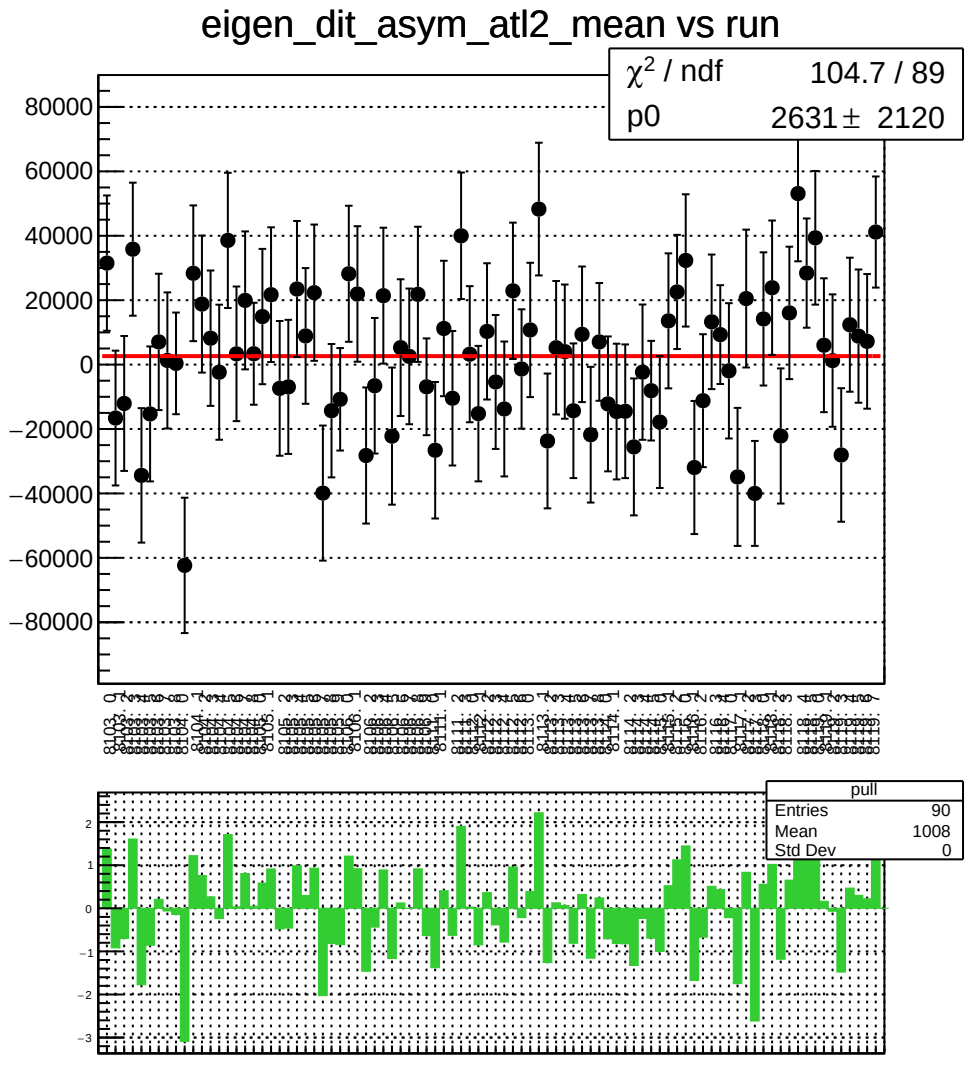

pull1D
Entries 90
Mean 0.00187
Std Dev 1.079

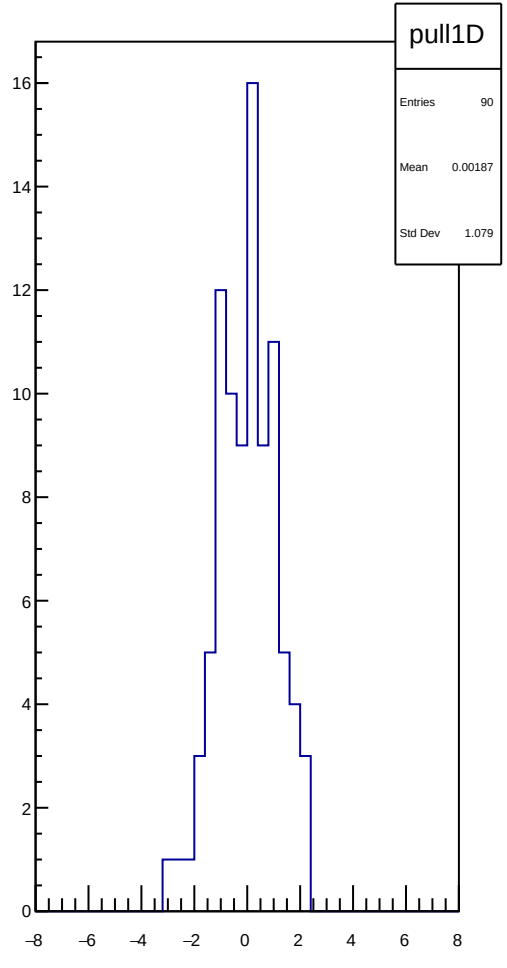

dit_asym_atl2_rms vs run
χ² / ndf 208.8 / 89
p0 1988 ± 1.499
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

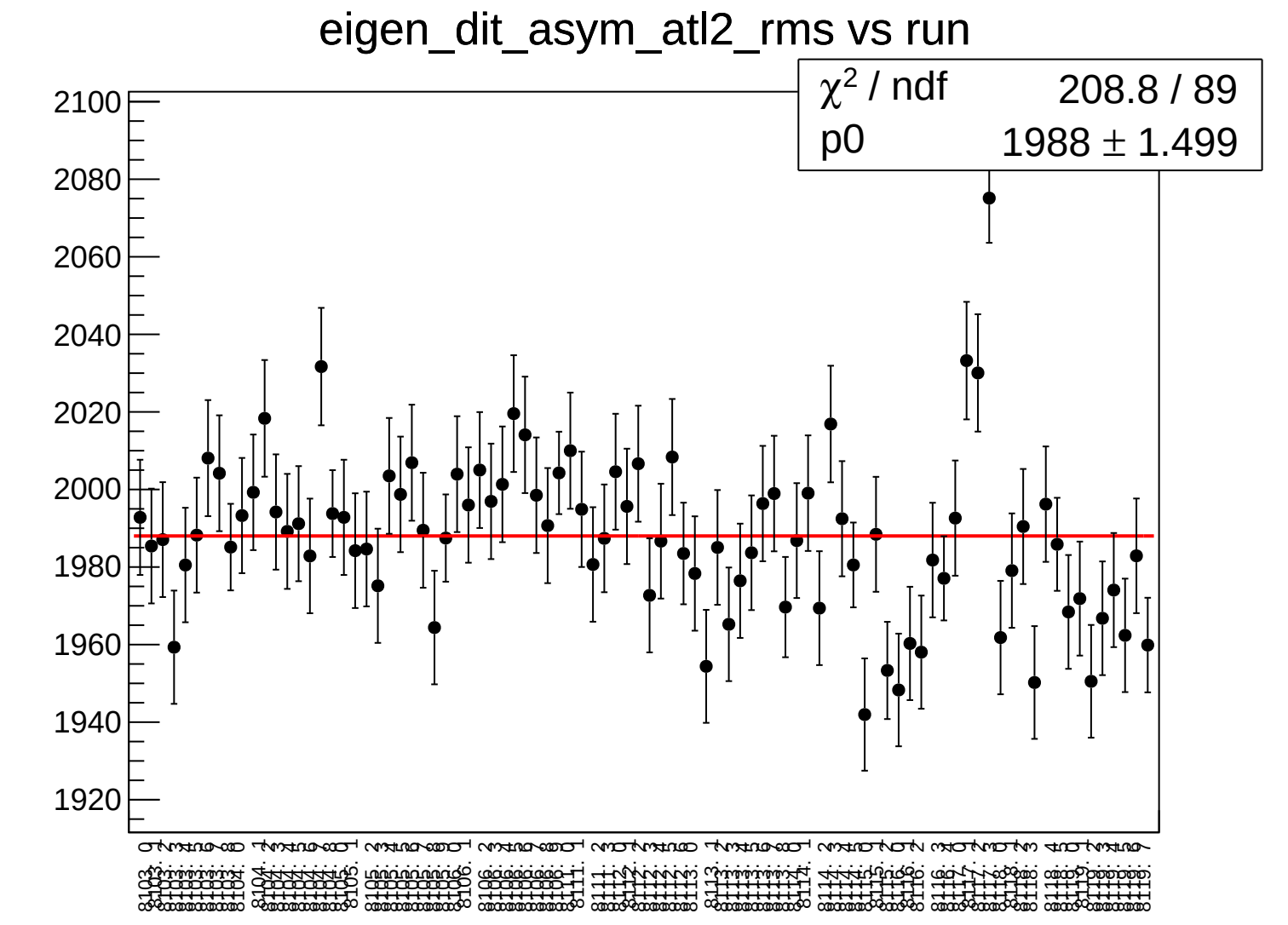

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 89.04 / 89
p0 7817 ± 8545
300
200
100
0
−100
−200
−300
−400
pull
Entries 90
Mean 1058
Std Dev 0
2
1
0
−1
−2
−3

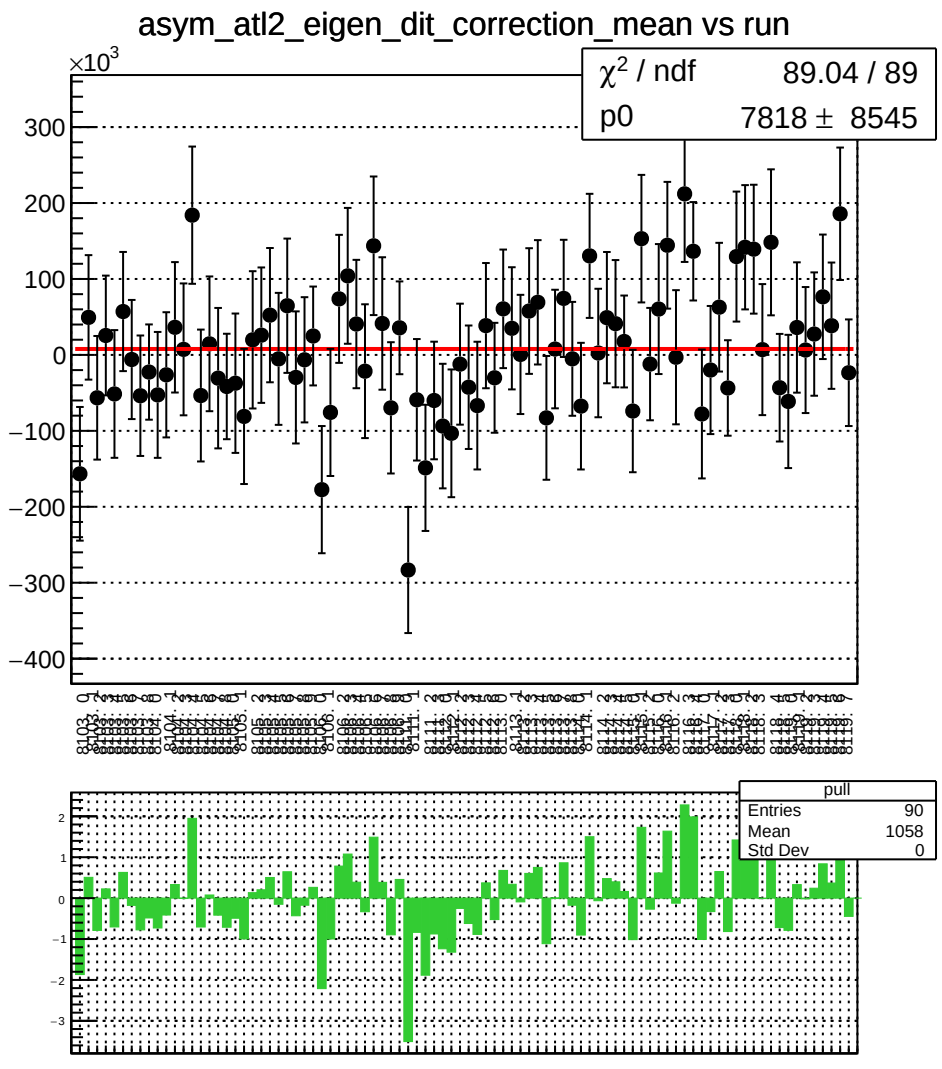

pull1D
Entries 90
Mean 0.007473
Std Dev 0.9946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

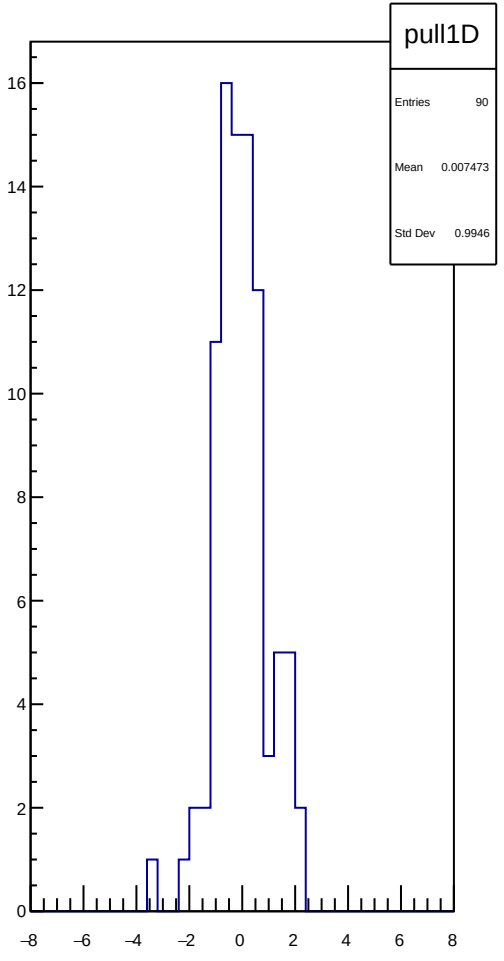

asym_atl2_dit_correction_rms vs run
χ² / ndf 3149 / 89
p0 8006 ± 6.042
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

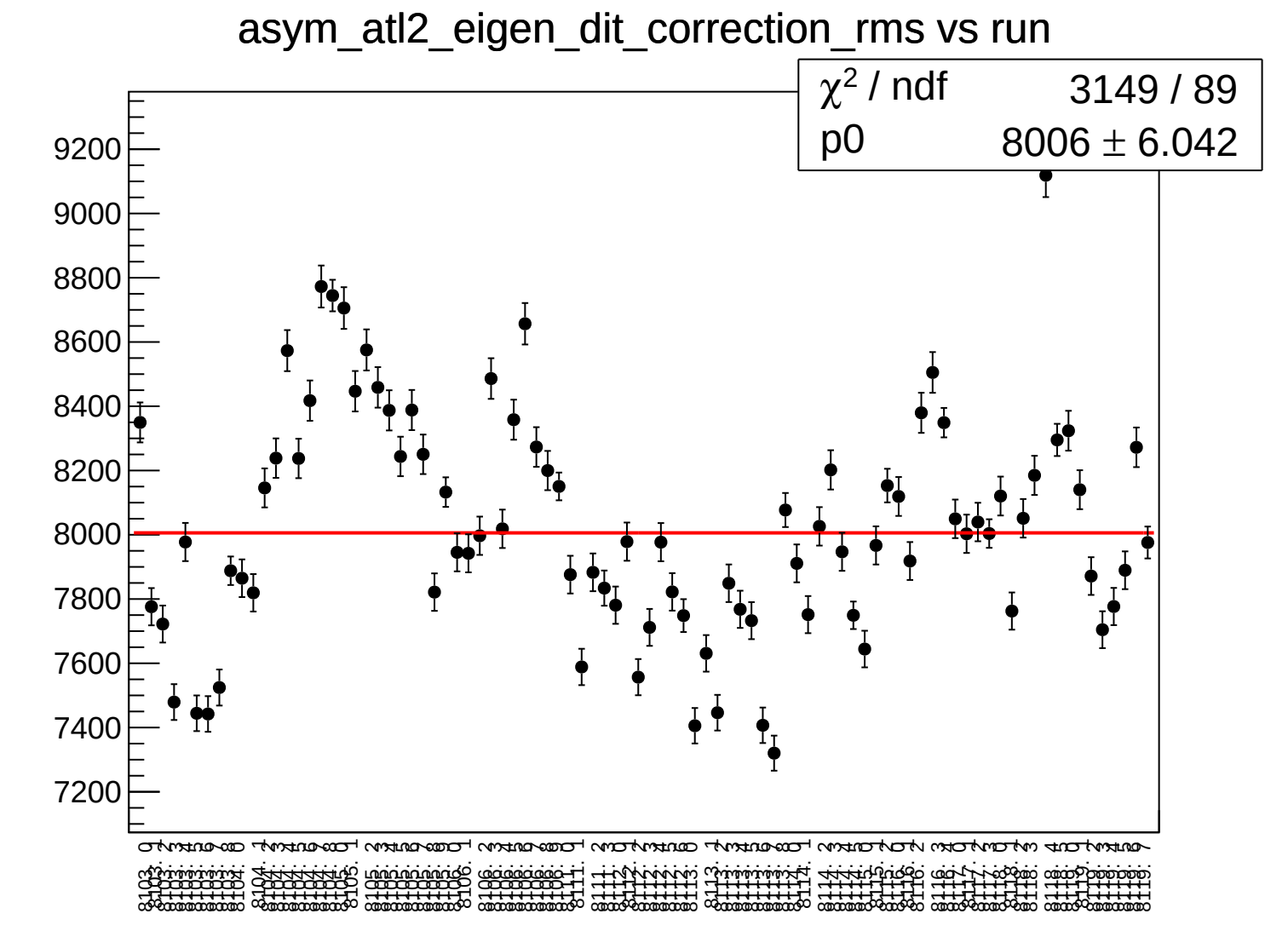

eigen_dit_asym_atl2_mean vs run
χ² / ndf 104.7 / 89
p0 2631 ± 2120
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 1008
Std Dev 0
2
1
0
−1
−2
−3

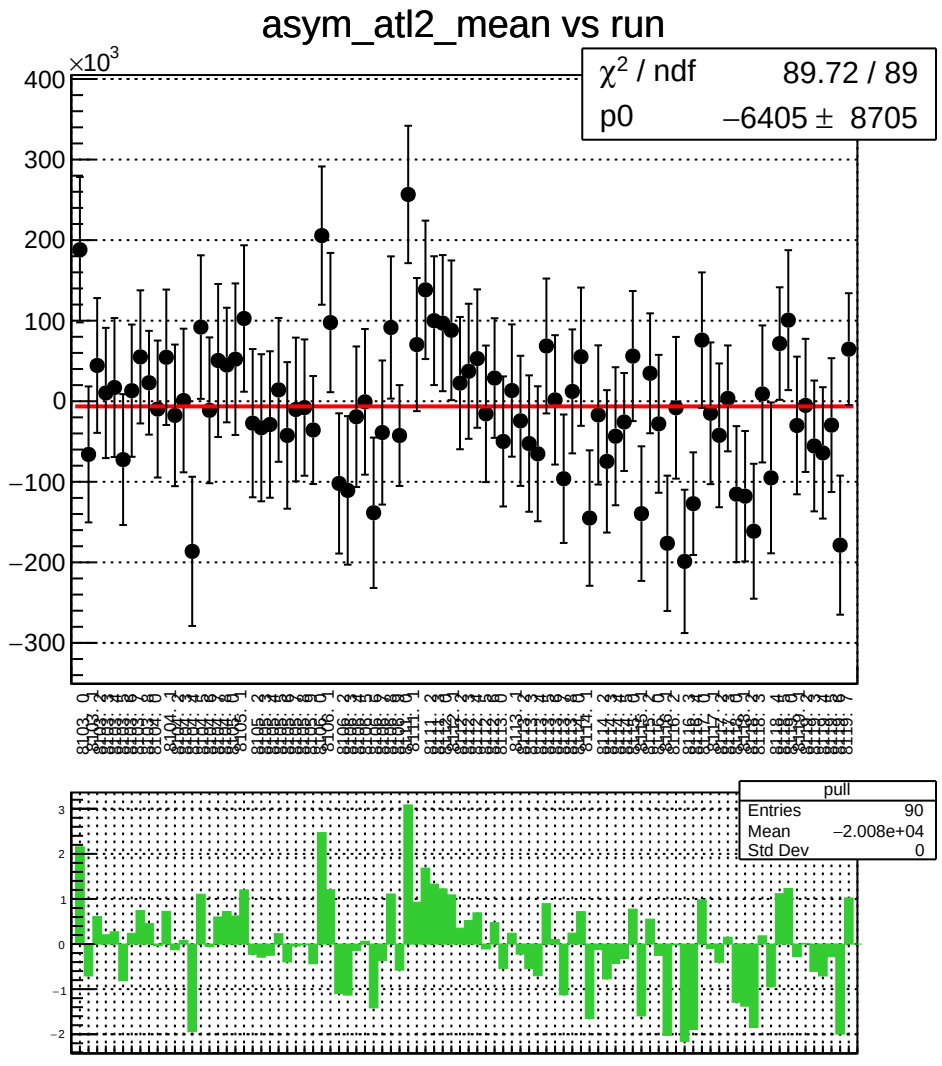

pull1D
Entries 90
Mean 0.00187
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

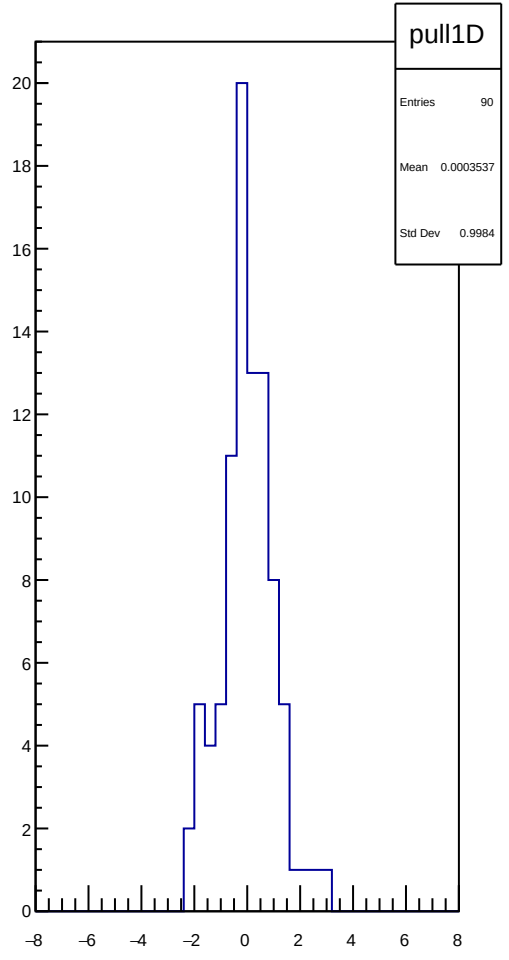

eigen_dit_asym_atl2_rms vs run
χ² / ndf 208.8 / 89
p0 1988 ± 1.499
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920


asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.04 / 89
p0 7818 ± 8545
300
200
100
0
−100
−200
−300
−400
pull
Entries 90
Mean 1058
Std Dev 0
2
1
0
−1
−2
−3

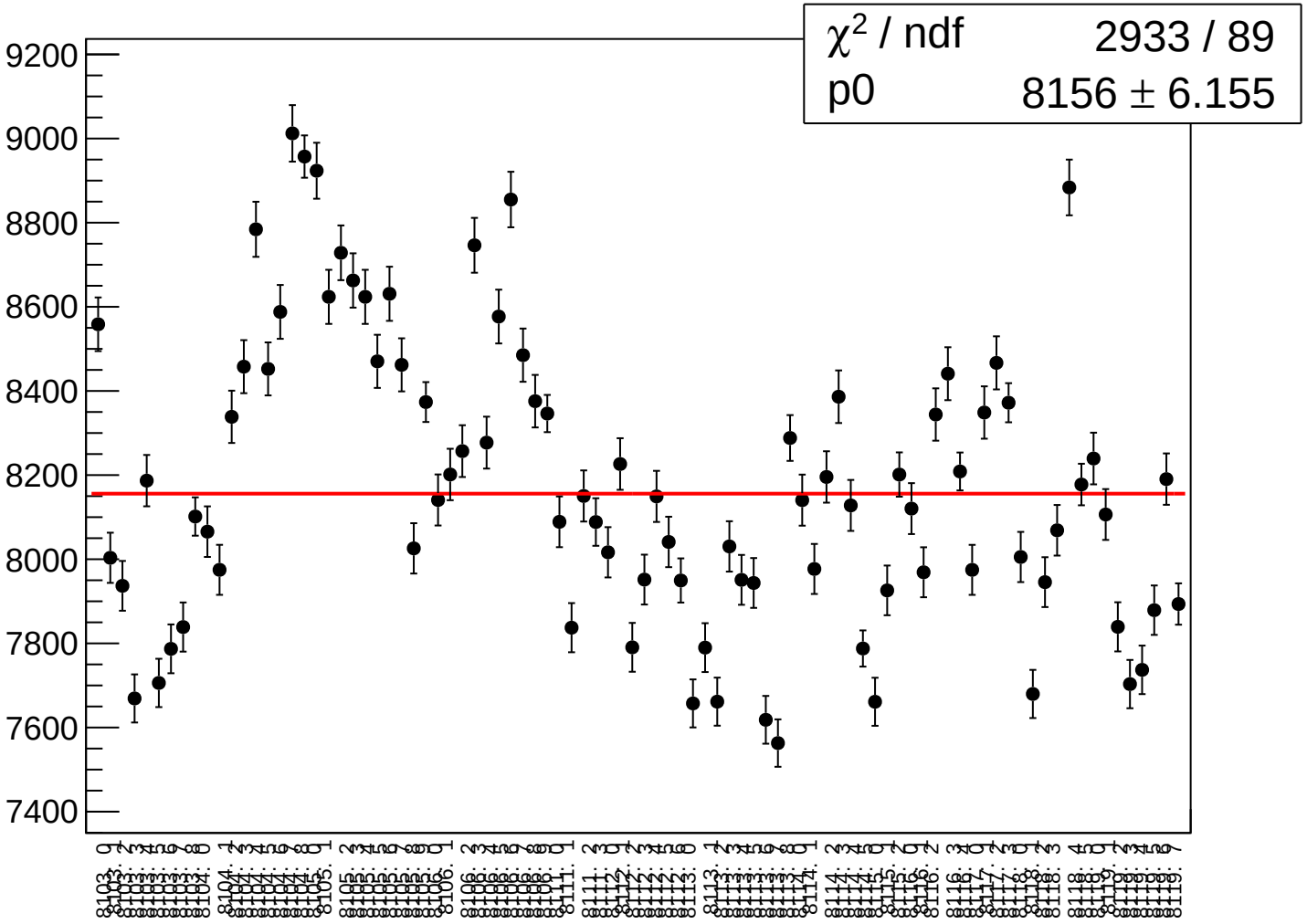

pull1D
Entries 90
Mean 0.007473
Std Dev 0.9946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

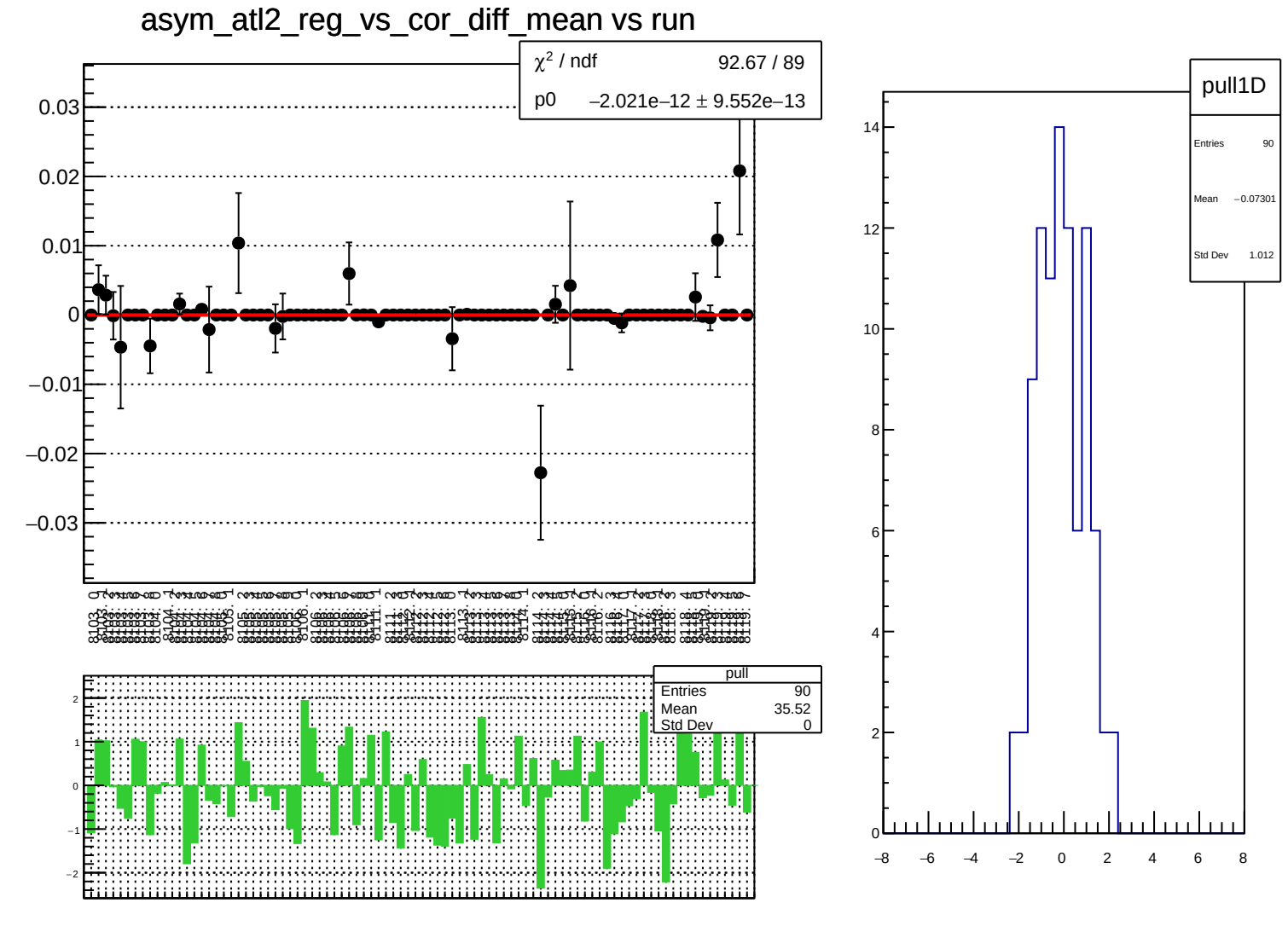

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 3149 / 89
p0 8006 ± 6.042
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

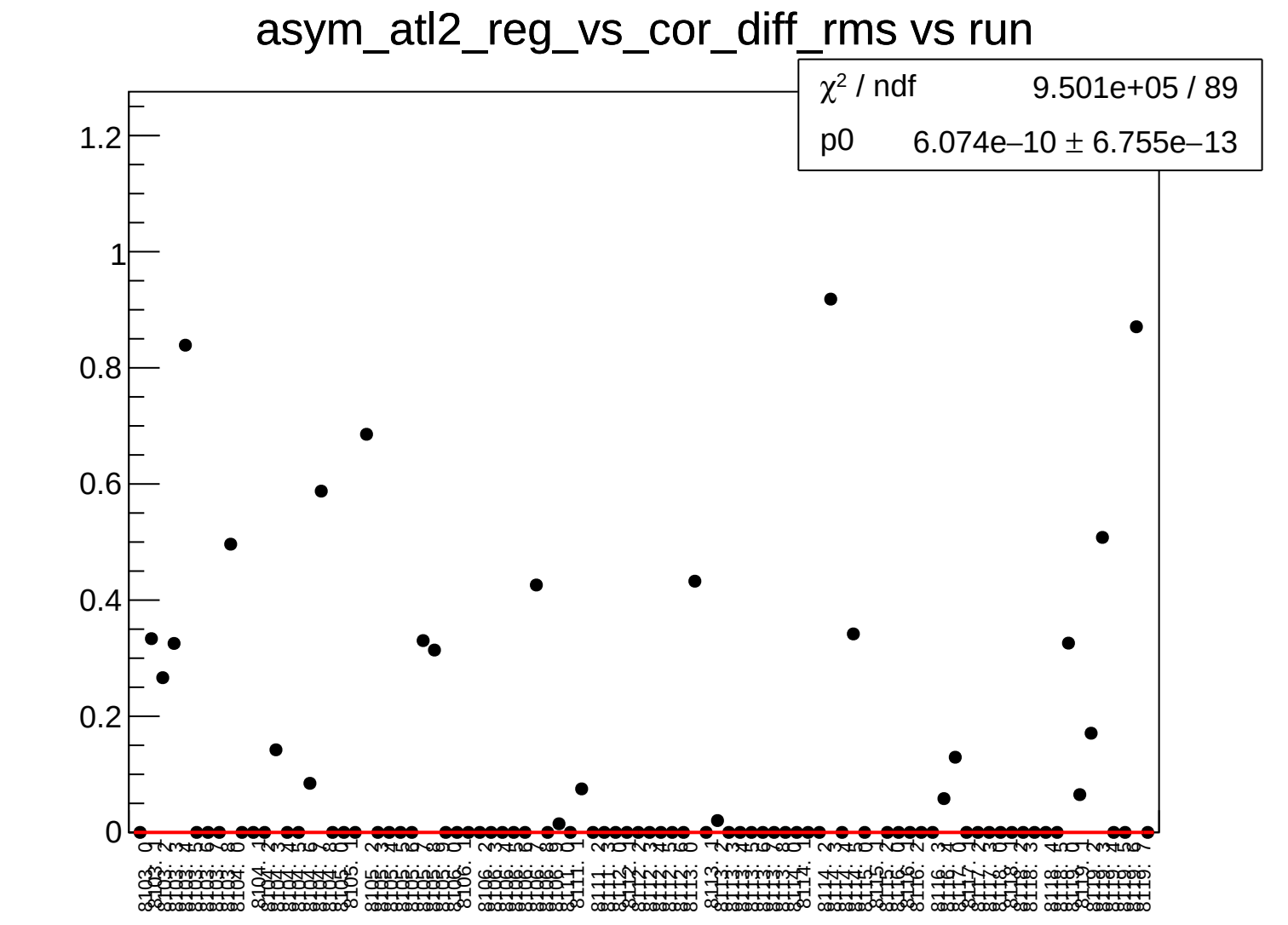

asym_atl2_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 89.72 / 89
p0 −6405 ± 8705
pull
Entries 90
Mean −2.008e+04
Std Dev 0
3
2
1
0
−1
−2

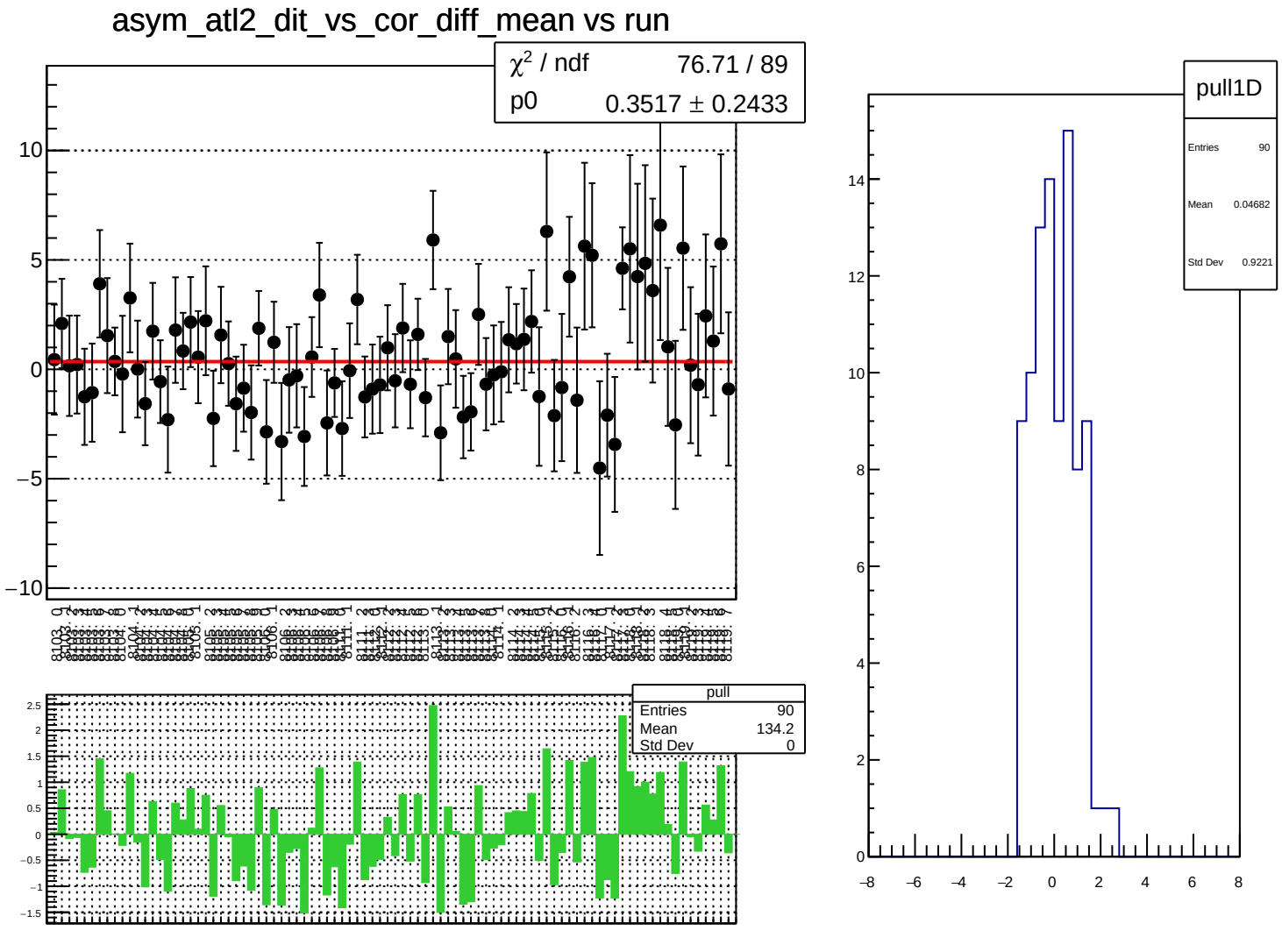

pull1D
Entries 90
Mean 0.0003537
Std Dev 0.9984
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

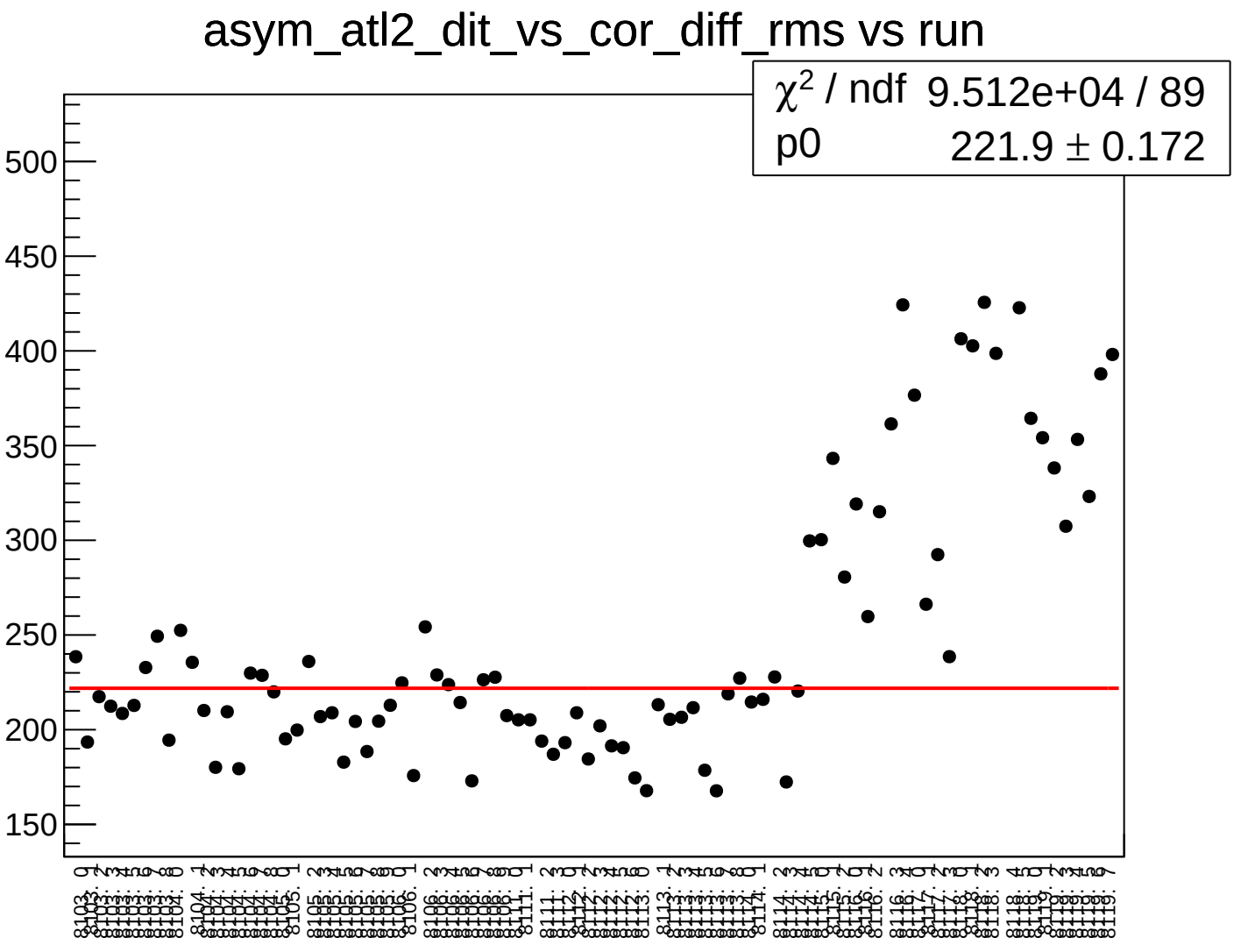
asym_atl2_rms vs run

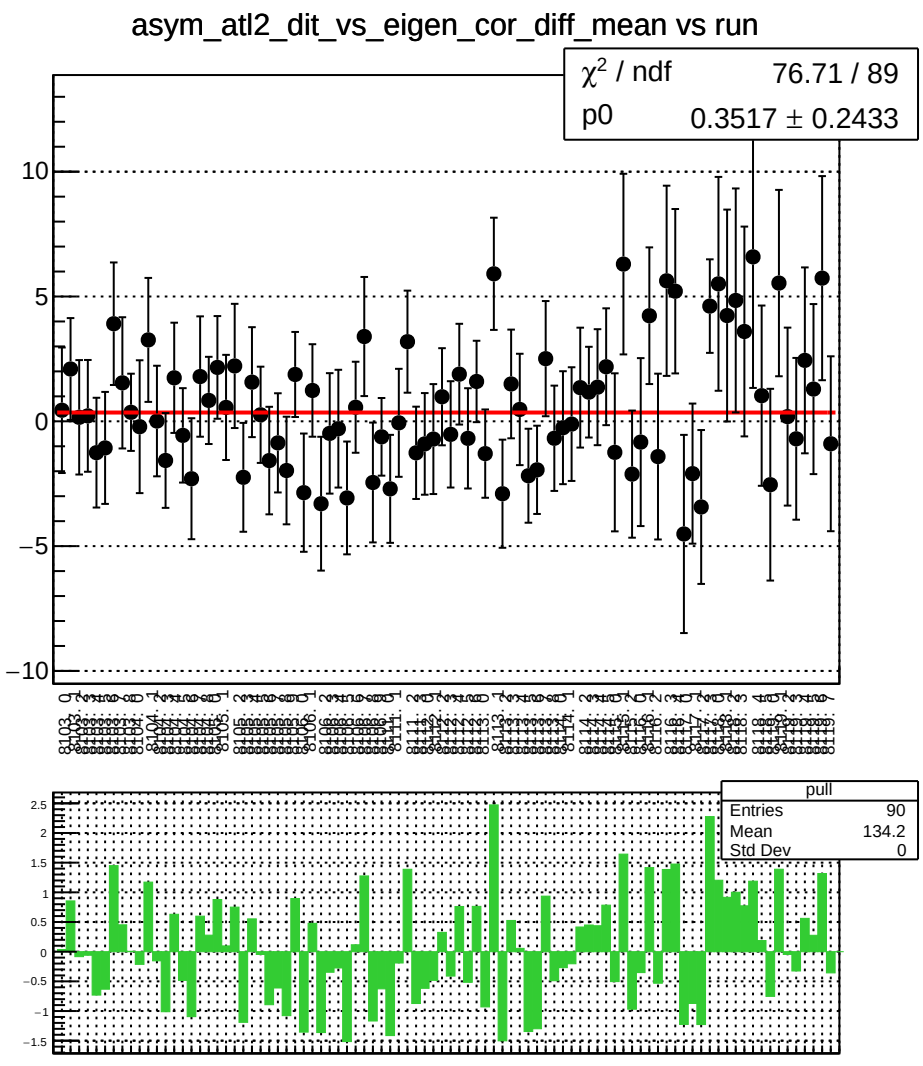


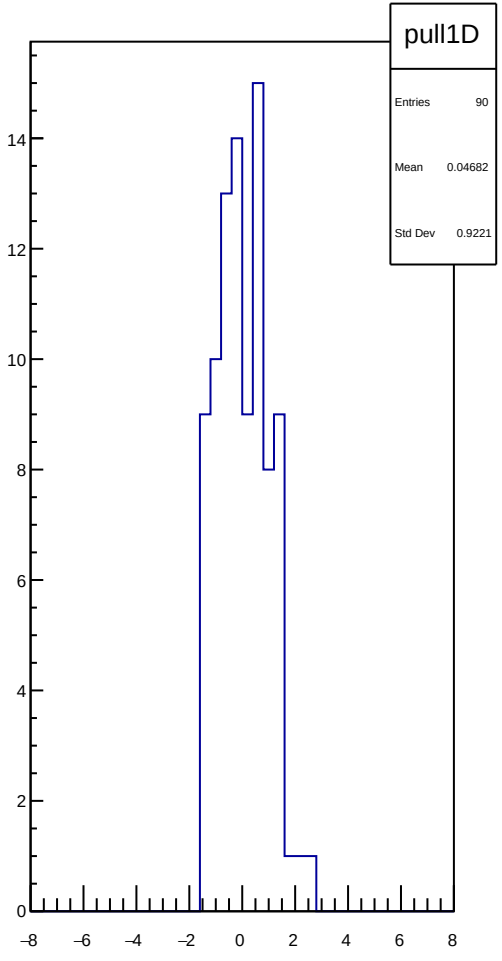

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 92.67 / 89
p0 −2.021e−12 ± 9.552e−13
pull
Entries 90
Mean 35.52
Std Dev 0
pull1D
Entries 90
Mean −0.07301
Std Dev 1.012

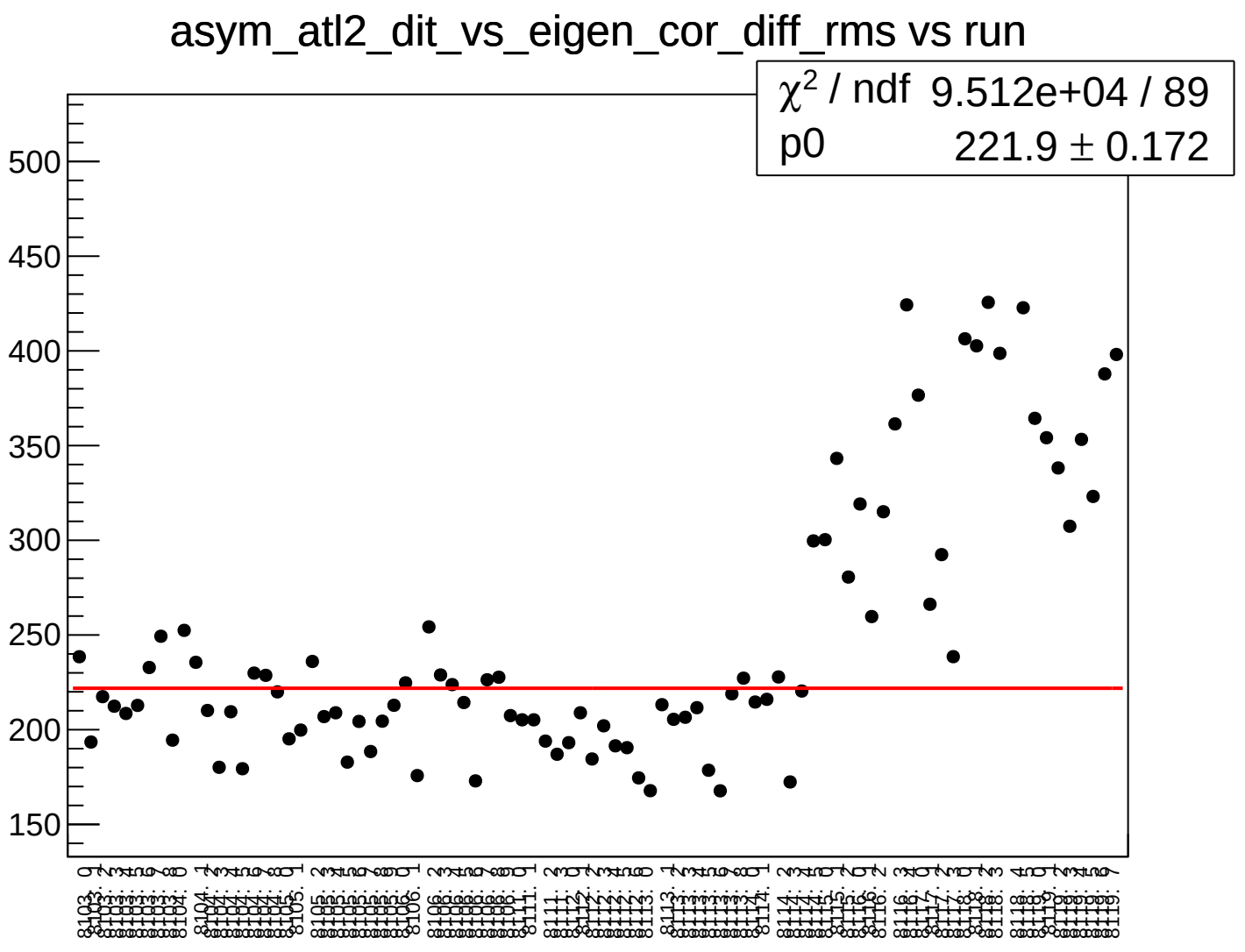

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.501e+05 / 89
p0 6.074e−10 ± 6.755e−13
1.2
1
0.8
0.6
0.4
0.2
0

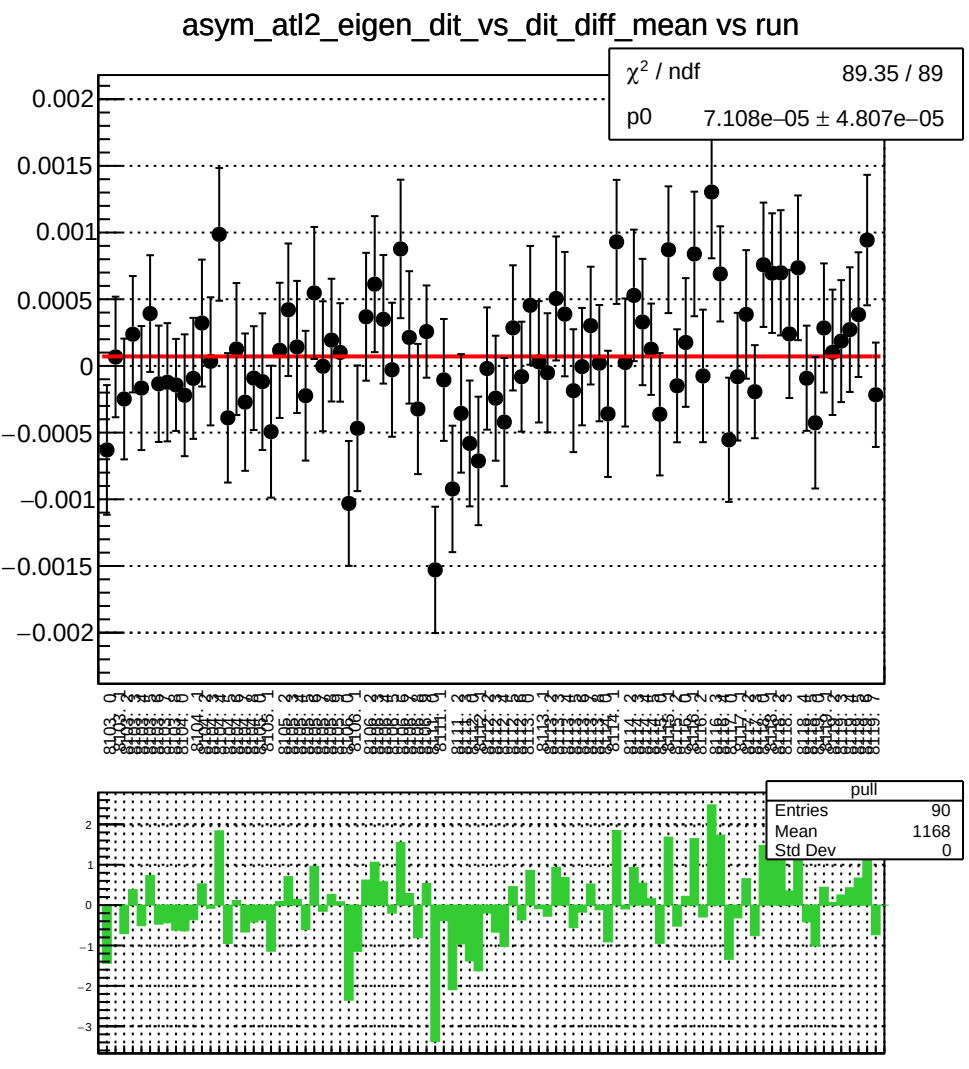

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 76.71 / 89
p0 0.3517 ± 0.2433
pull
Entries 90
Mean 134.2
Std Dev 0
pull1D
Entries 90
Mean 0.04682
Std Dev 0.9221

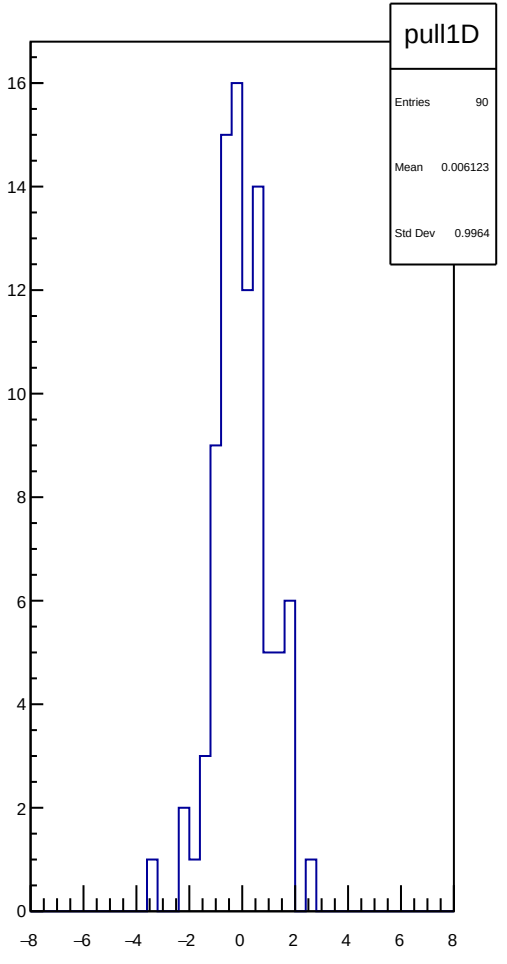

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 9.512e+04 / 89
p0 221.9 ± 0.172
500
450
400
350
300
250
200
150

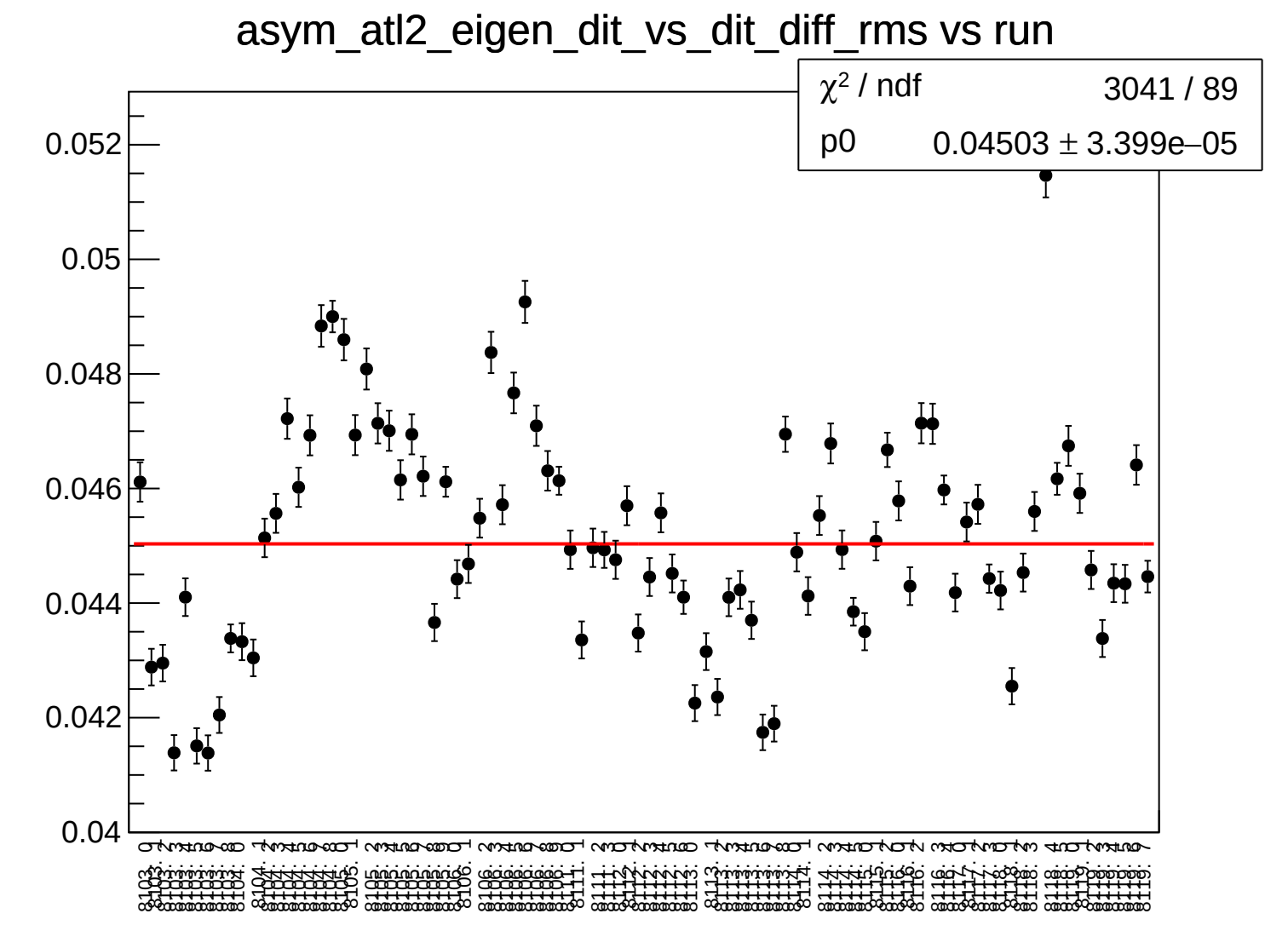

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.71 / 89
p0 0.3517 ± 0.2433
pull
Entries 90
Mean 134.2
Std Dev 0

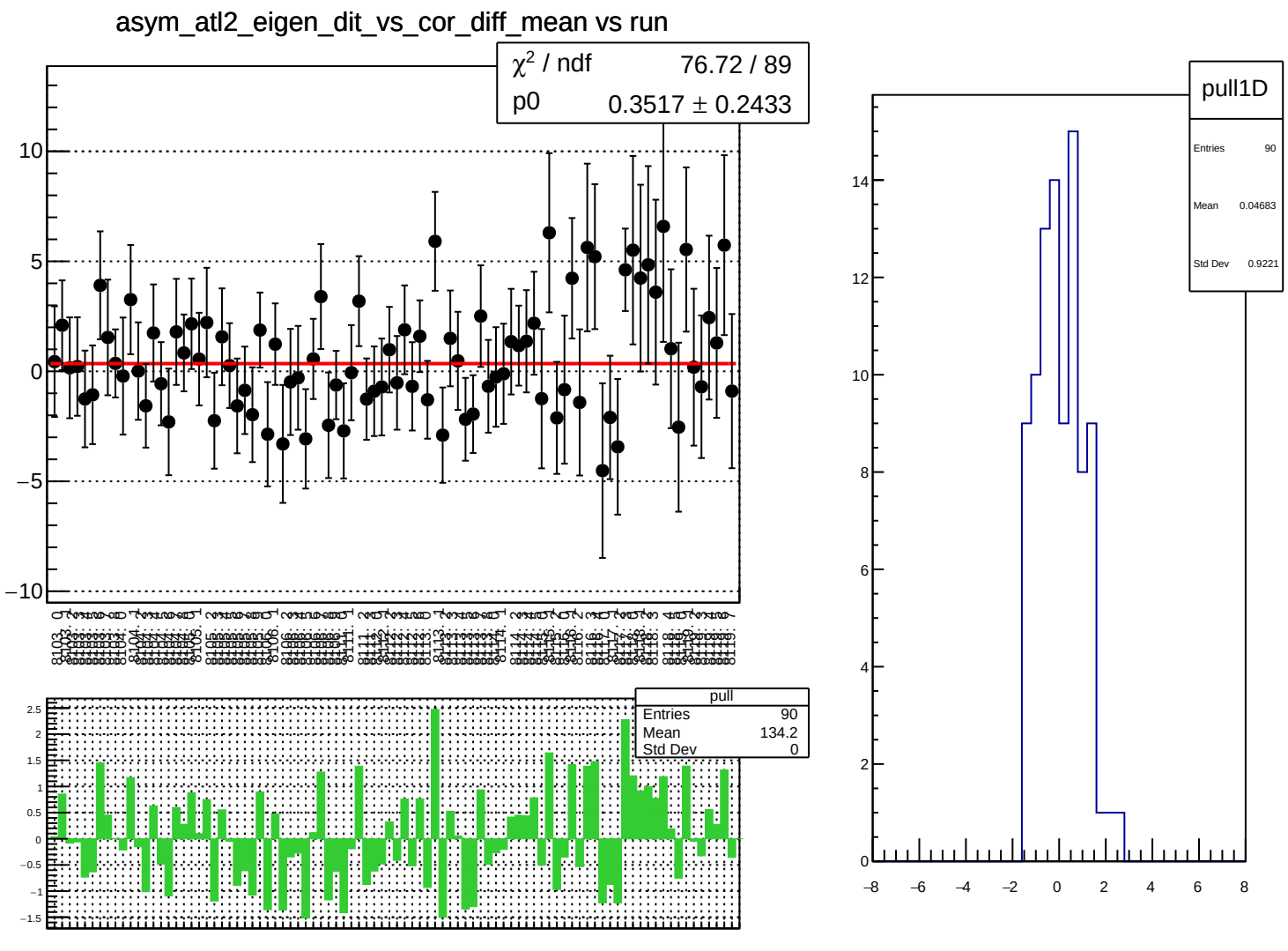

pull1D
Entries 90
Mean 0.04682
Std Dev 0.9221

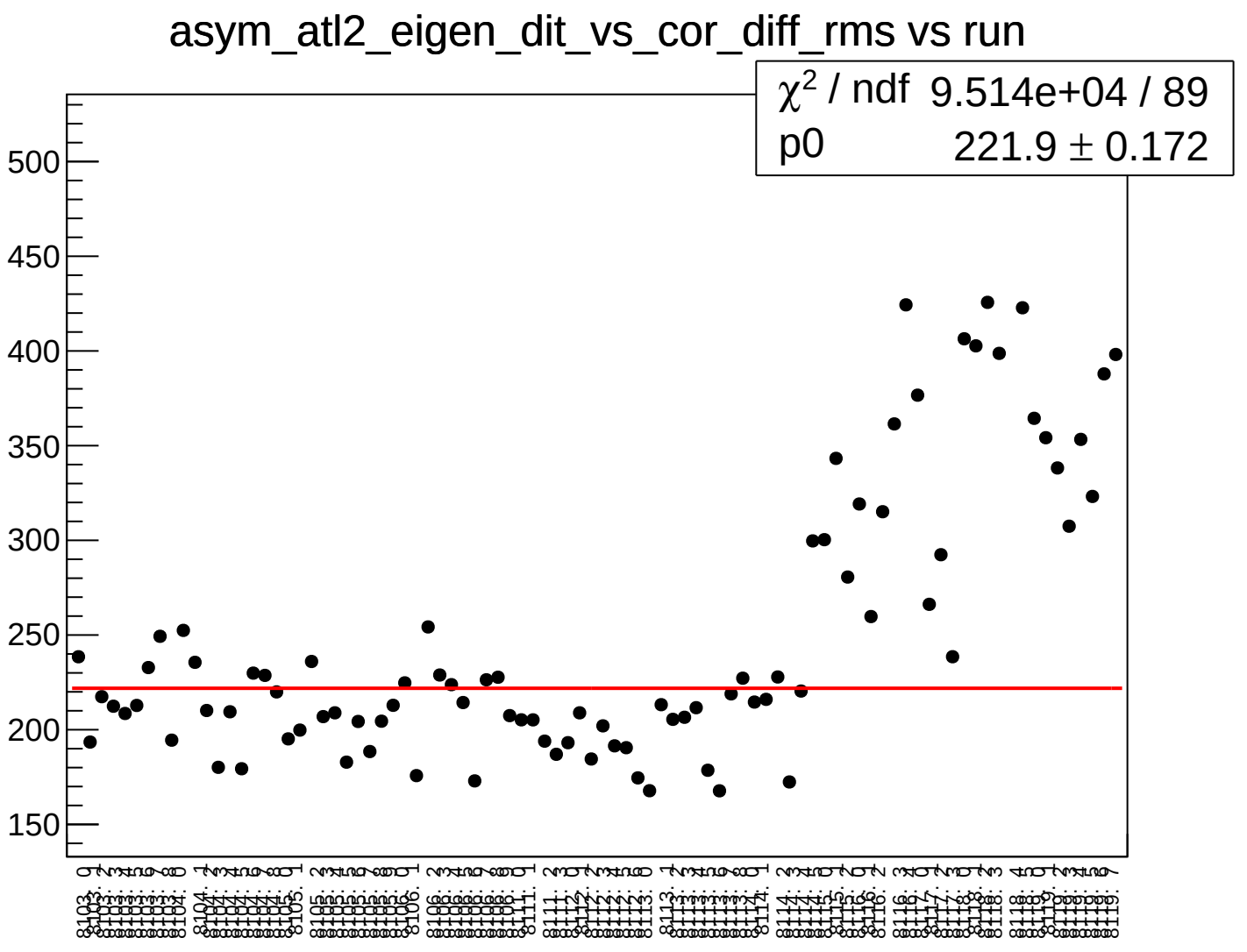

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.512e+04 / 89
p0 221.9 ± 0.172
500
450
400
350
300
250
200
150

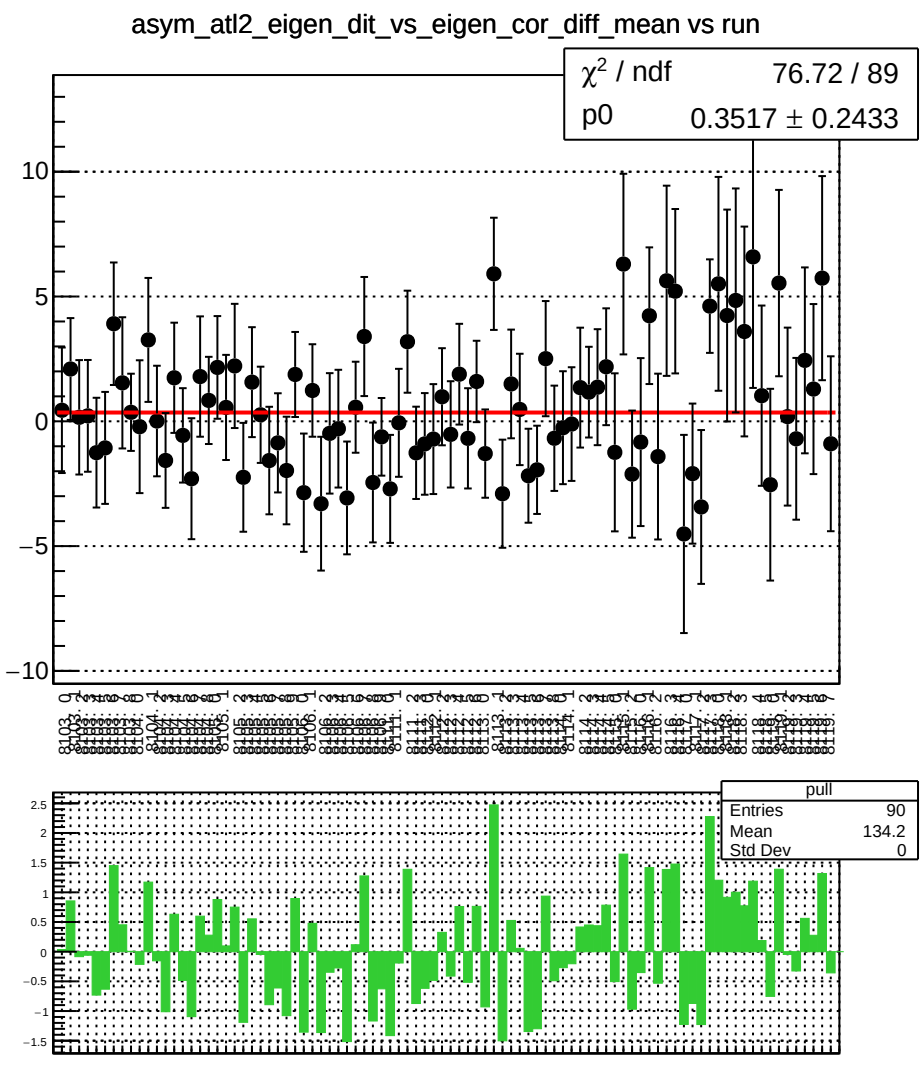

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.35 / 89
p0 7.108e−05 ± 4.807e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 90
Mean 1168
Std Dev 0

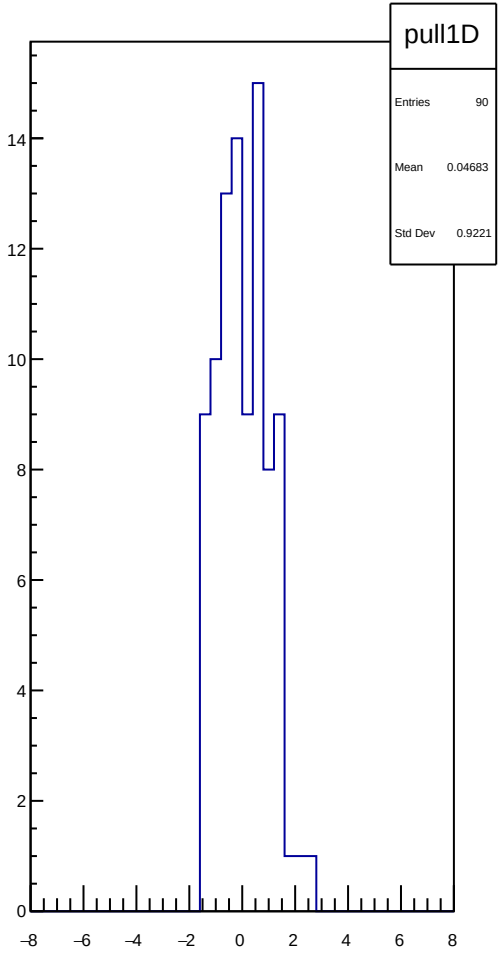

pull1D
Entries 90
Mean 0.006123
Std Dev 0.9964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

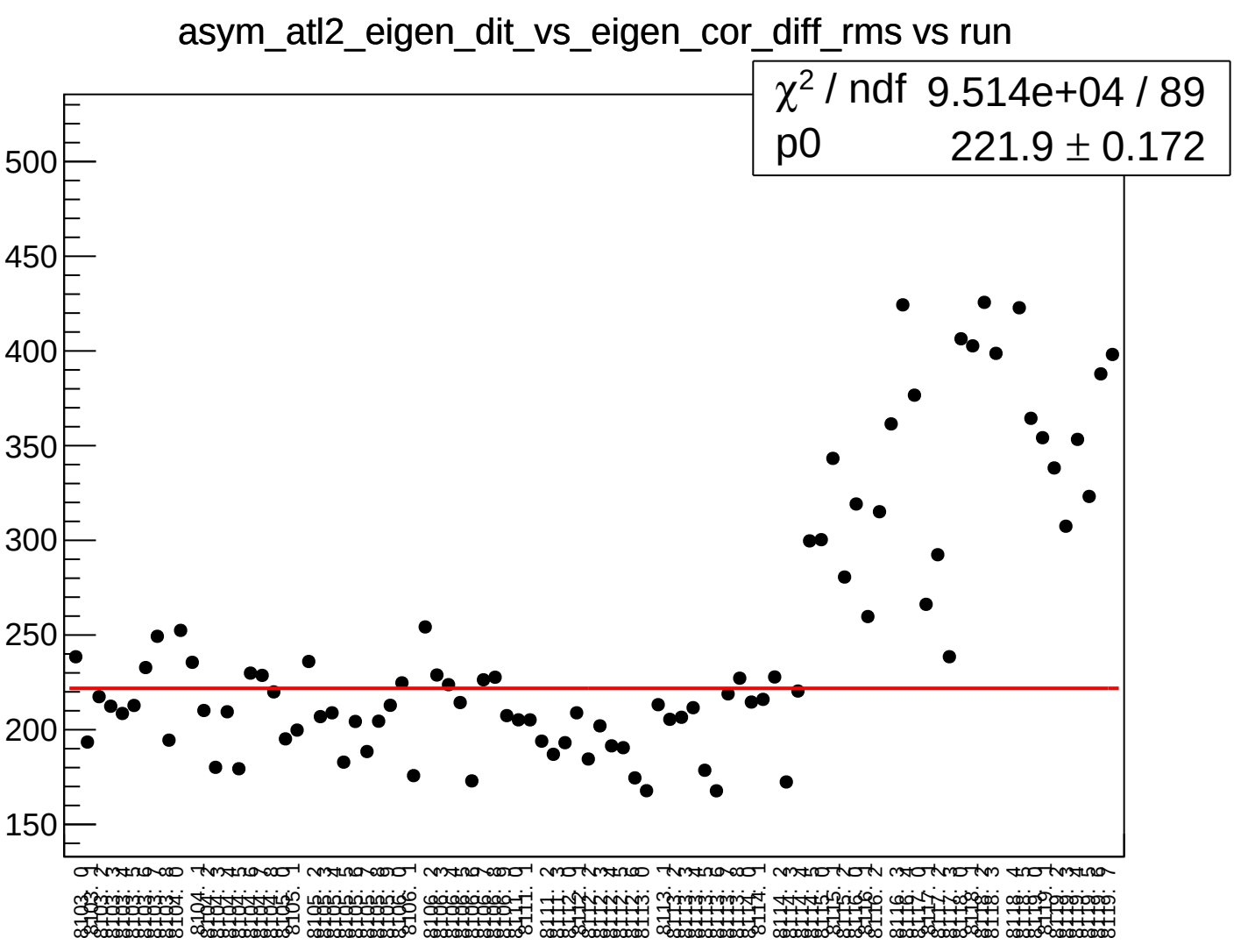

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3041 / 89
p0 0.04503 ± 3.399e−05
0.052
0.05
0.048
0.046
0.044
0.042
0.04

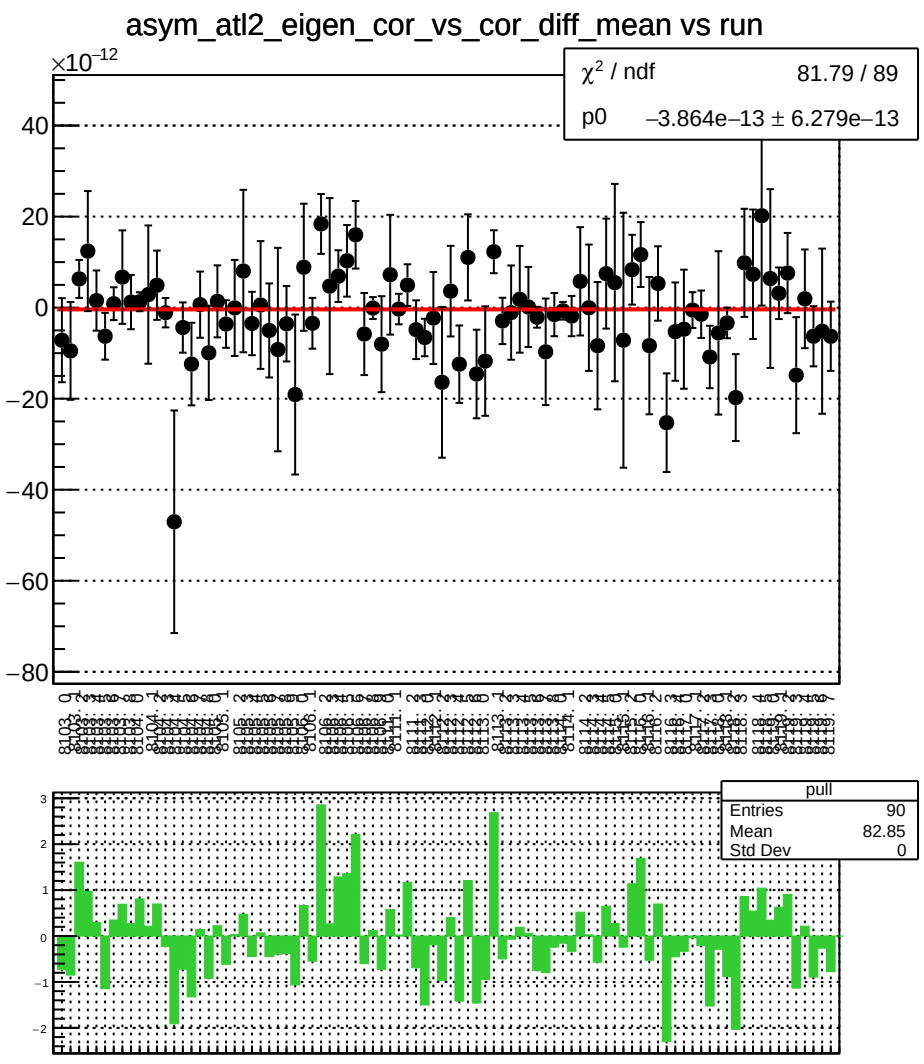

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.72 / 89
p0 0.3517 ± 0.2433
pull
Entries 90
Mean 134.2
Std Dev 0
pull1D
Entries 90
Mean 0.04683
Std Dev 0.9221

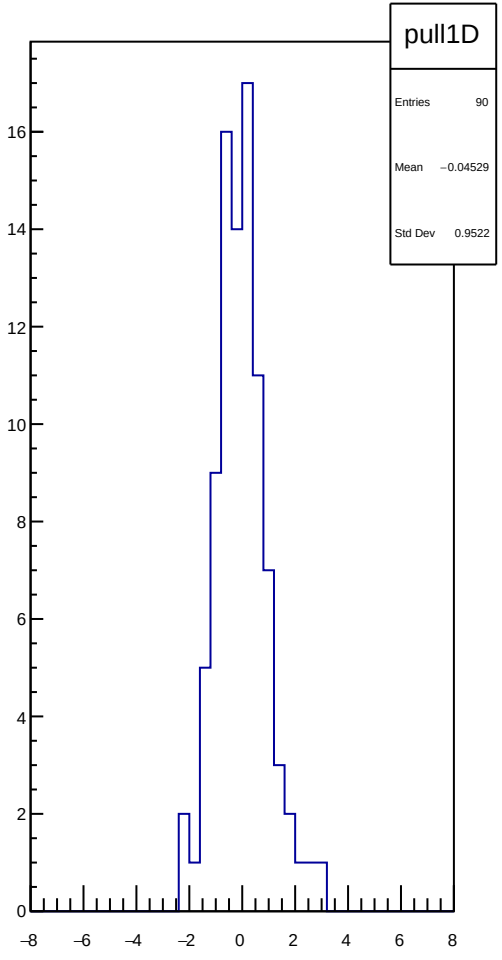

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.514e+04 / 89
p0 221.9 ± 0.172
500
450
400
350
300
250
200
150

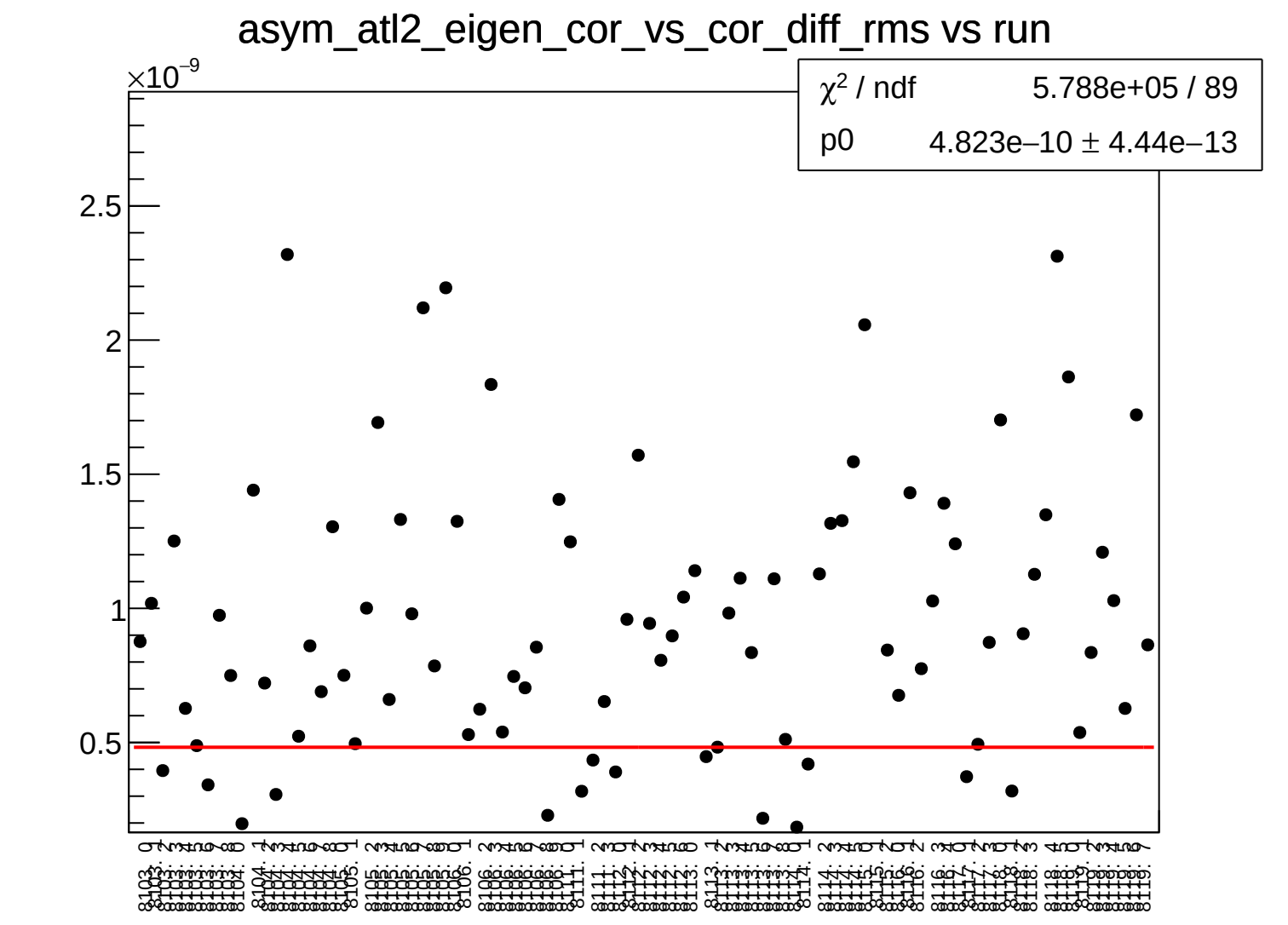

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.72 / 89
p0 0.3517 ± 0.2433
pull
Entries 90
Mean 134.2
Std Dev 0

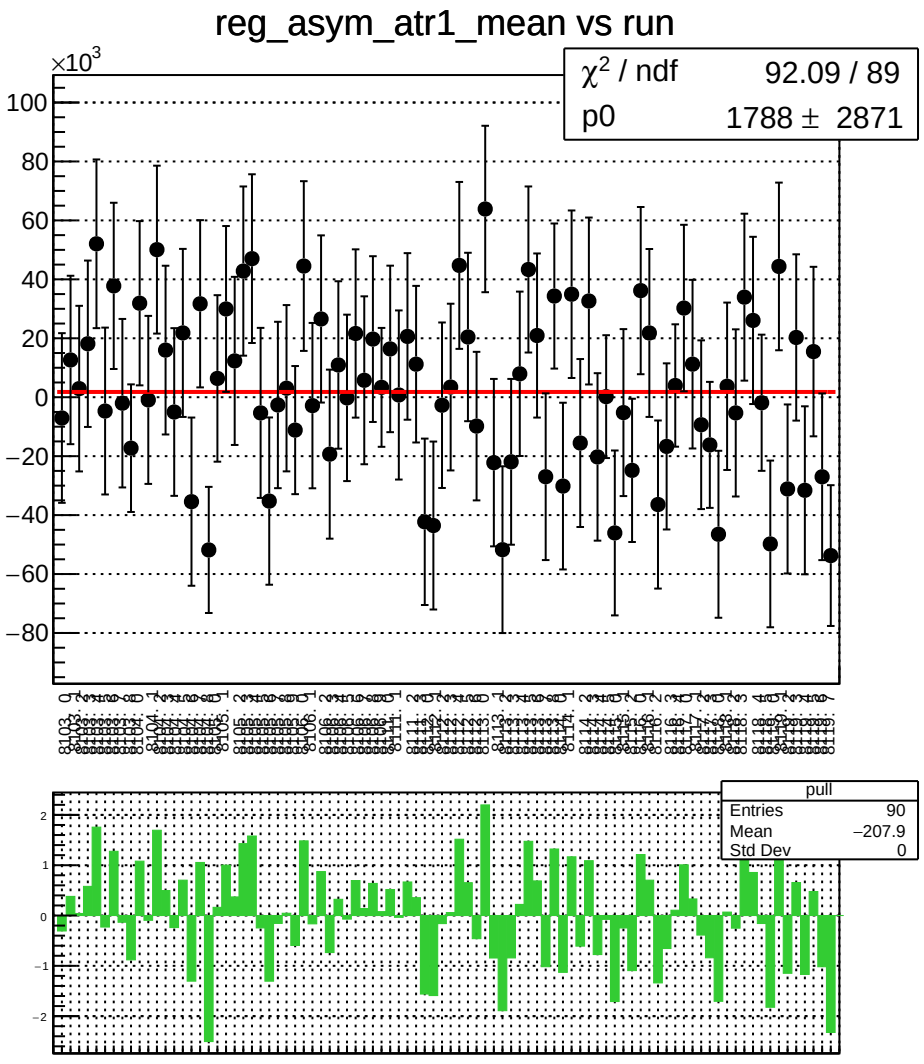

pull1D
Entries 90
Mean 0.04683
Std Dev 0.9221

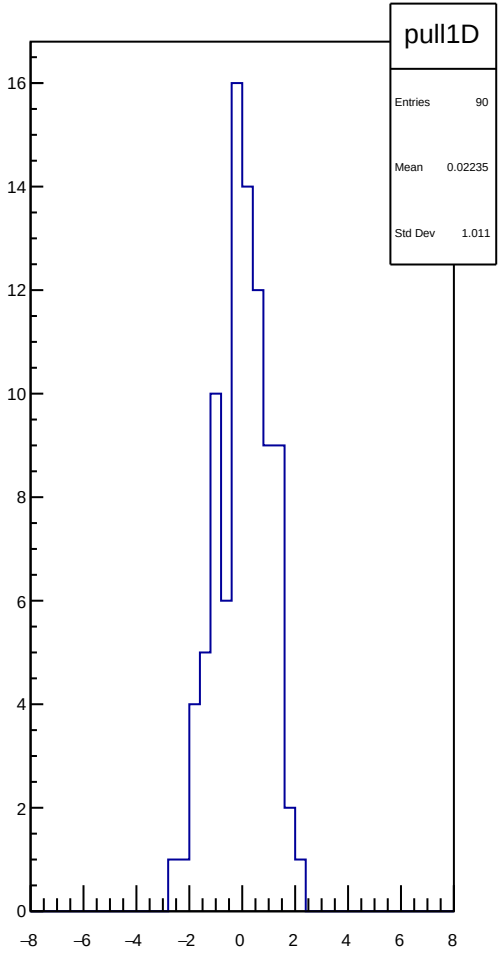

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.514e+04 / 89
p0 221.9 ± 0.172
500
450
400
350
300
250
200
150

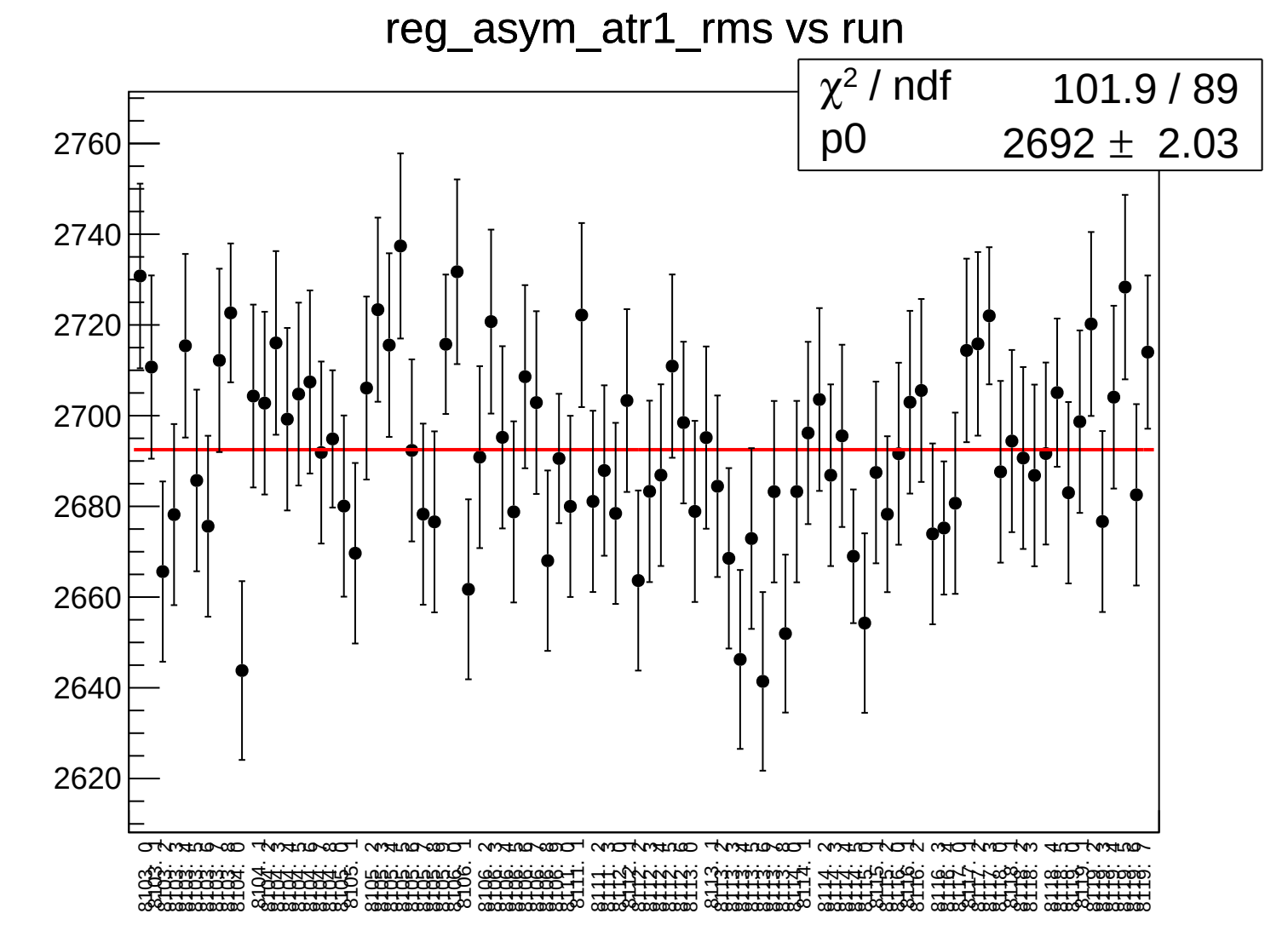

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.79 / 89
p0 −3.864e−13 ± 6.279e−13
pull
Entries 90
Mean 82.85
Std Dev 0

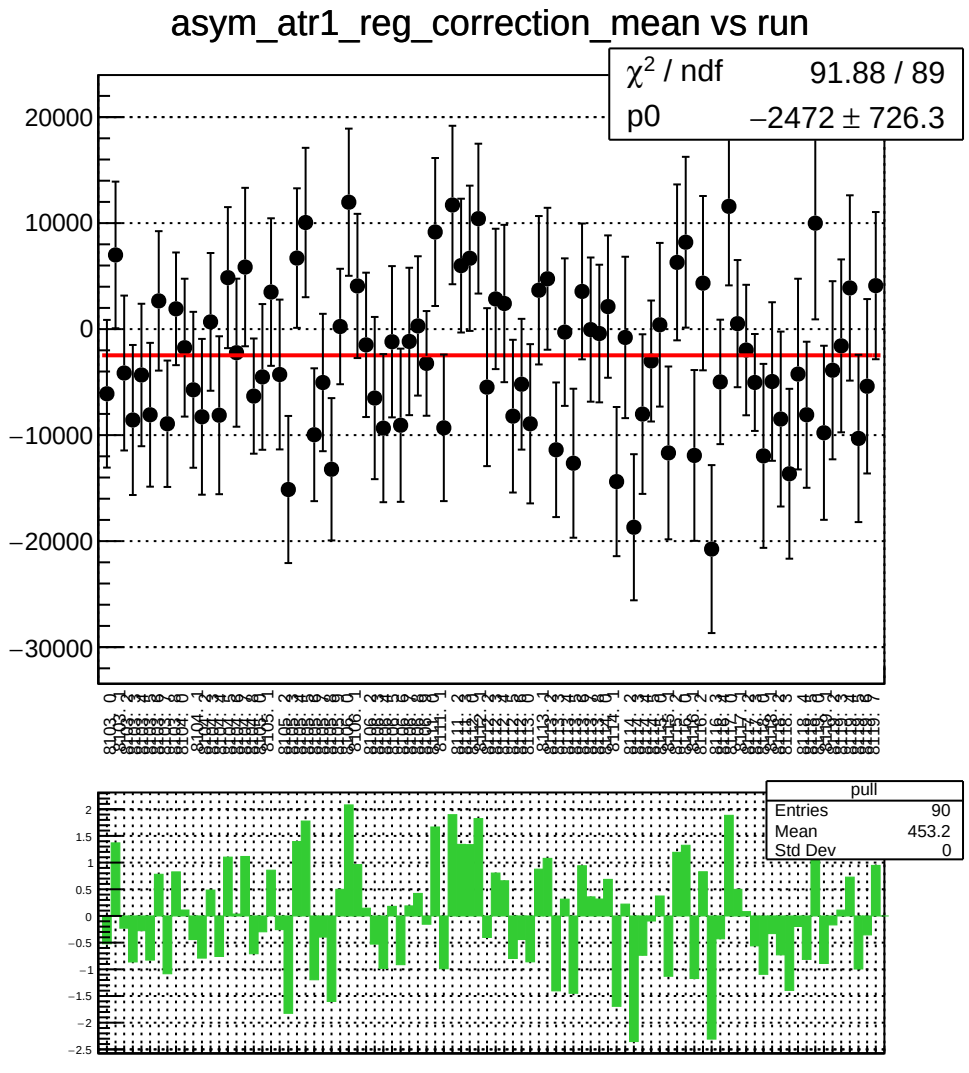

pull1D
Entries 90
Mean −0.04529
Std Dev 0.9522

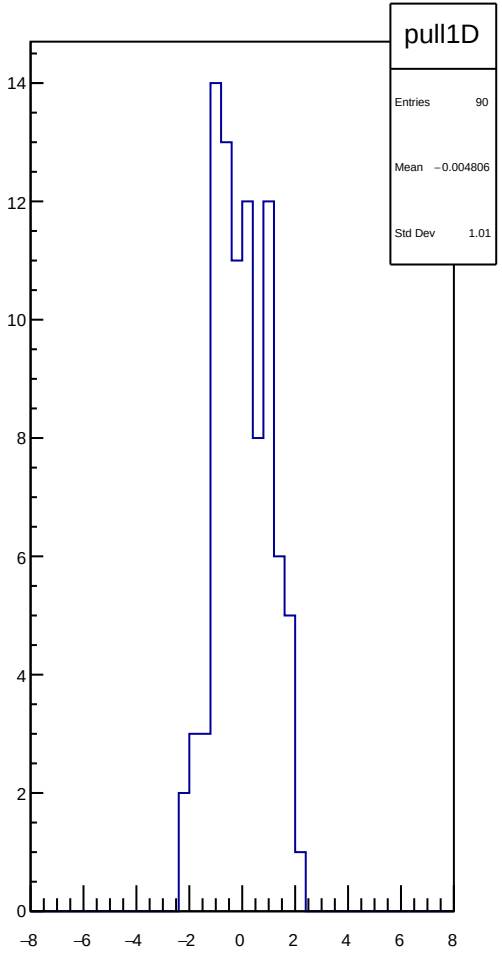

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.788e+05 / 89
p0 4.823e−10 ± 4.44e−13
2.5
2
1.5
1
0.5

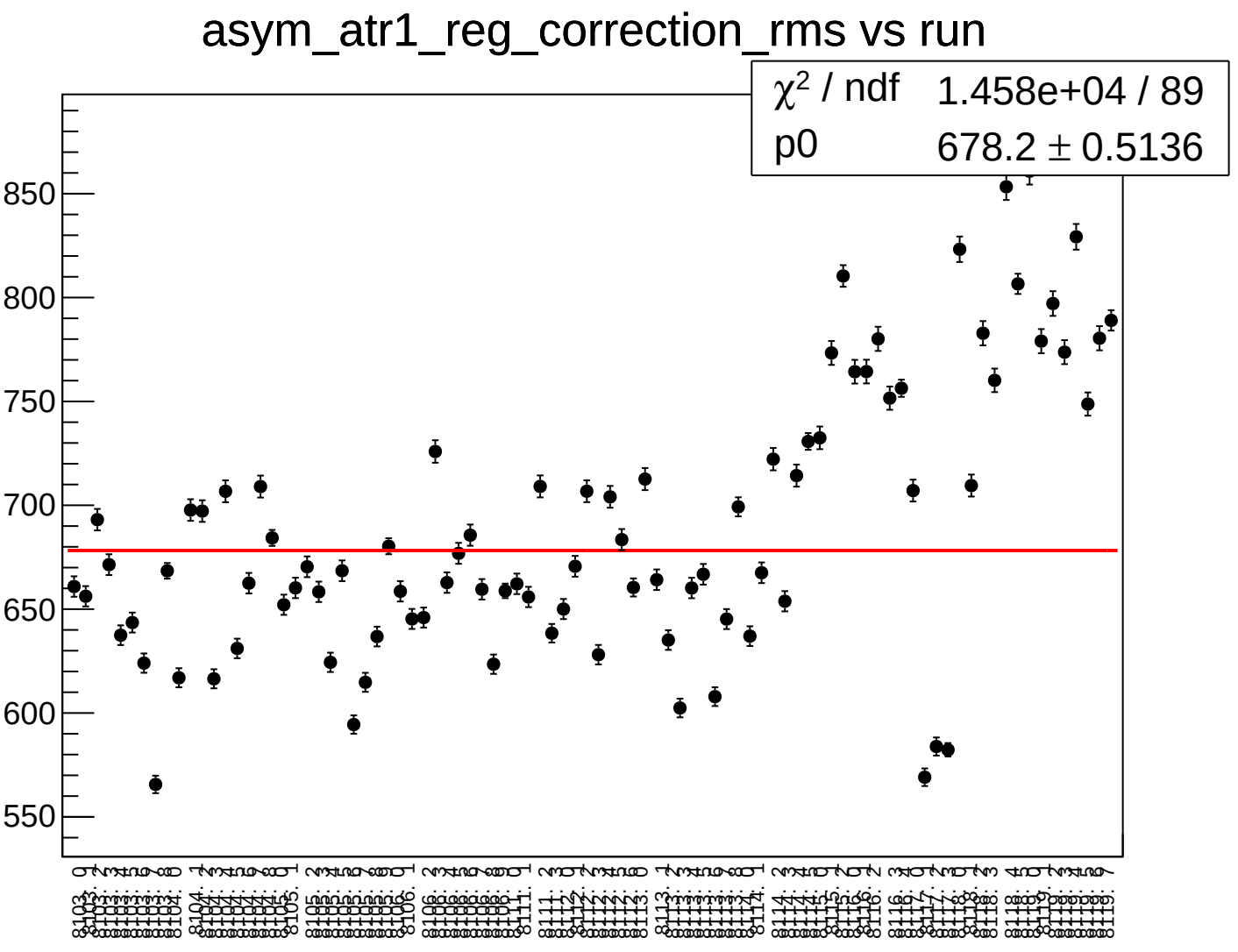

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 92.09 / 89
p0 1788 ± 2871
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 90
Mean −207.9
Std Dev 0
2
1
0
−1
−2

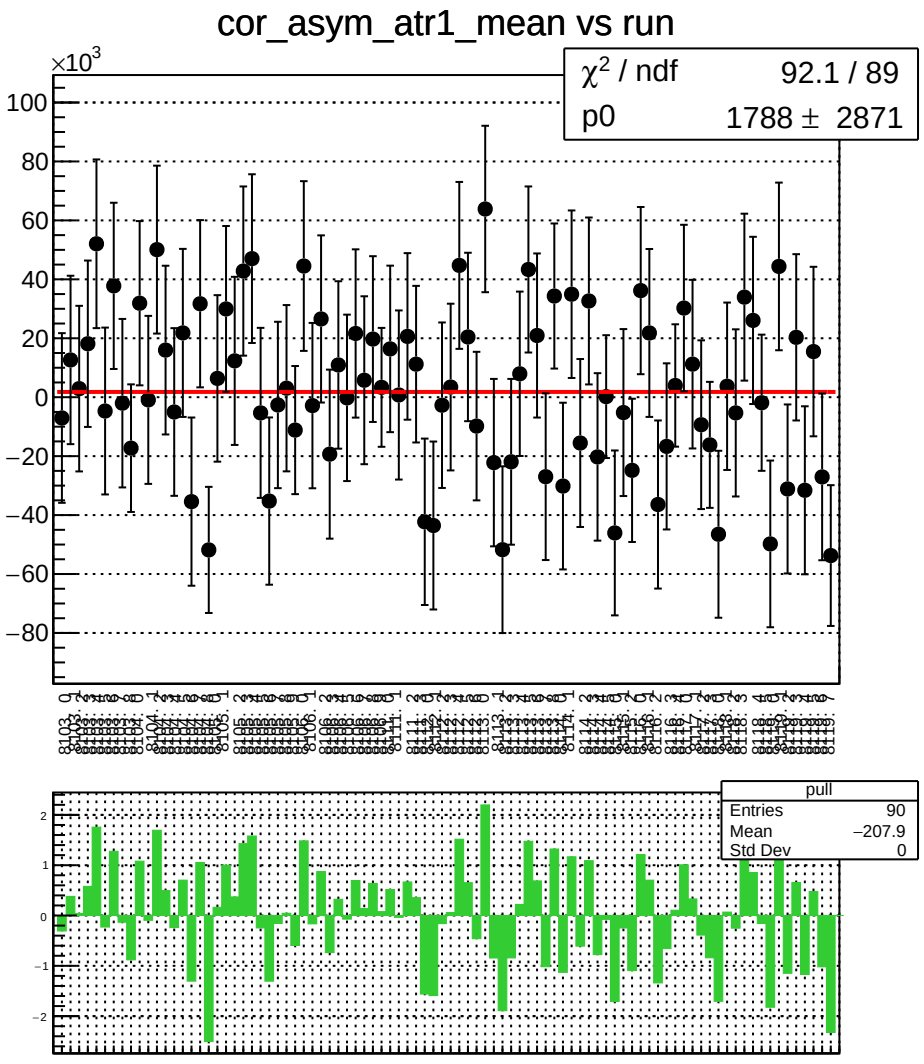

pull1D
Entries 90
Mean 0.02235
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

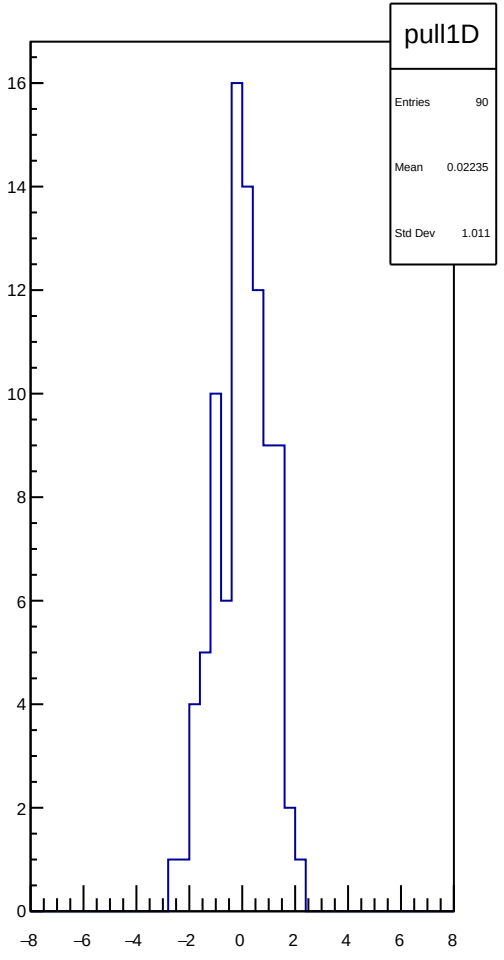

reg_asym_atr1_rms vs run
χ² / ndf 101.9 / 89
p0 2692 ± 2.03
2760
2740
2720
2700
2680
2660
2640
2620

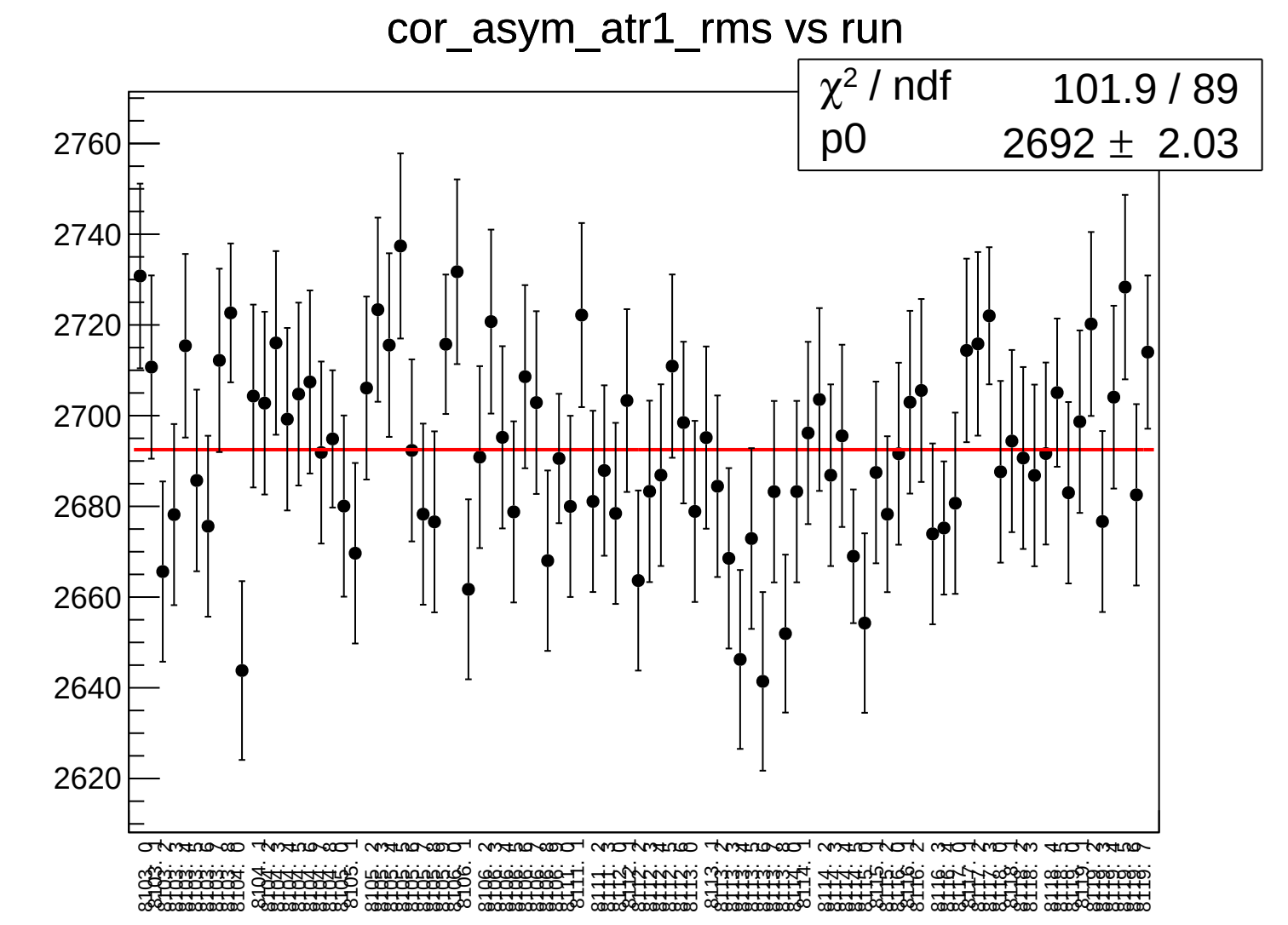

asym_atr1_reg_correction_mean vs run
χ² / ndf 91.88 / 89
p0 −2472 ± 726.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 453.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

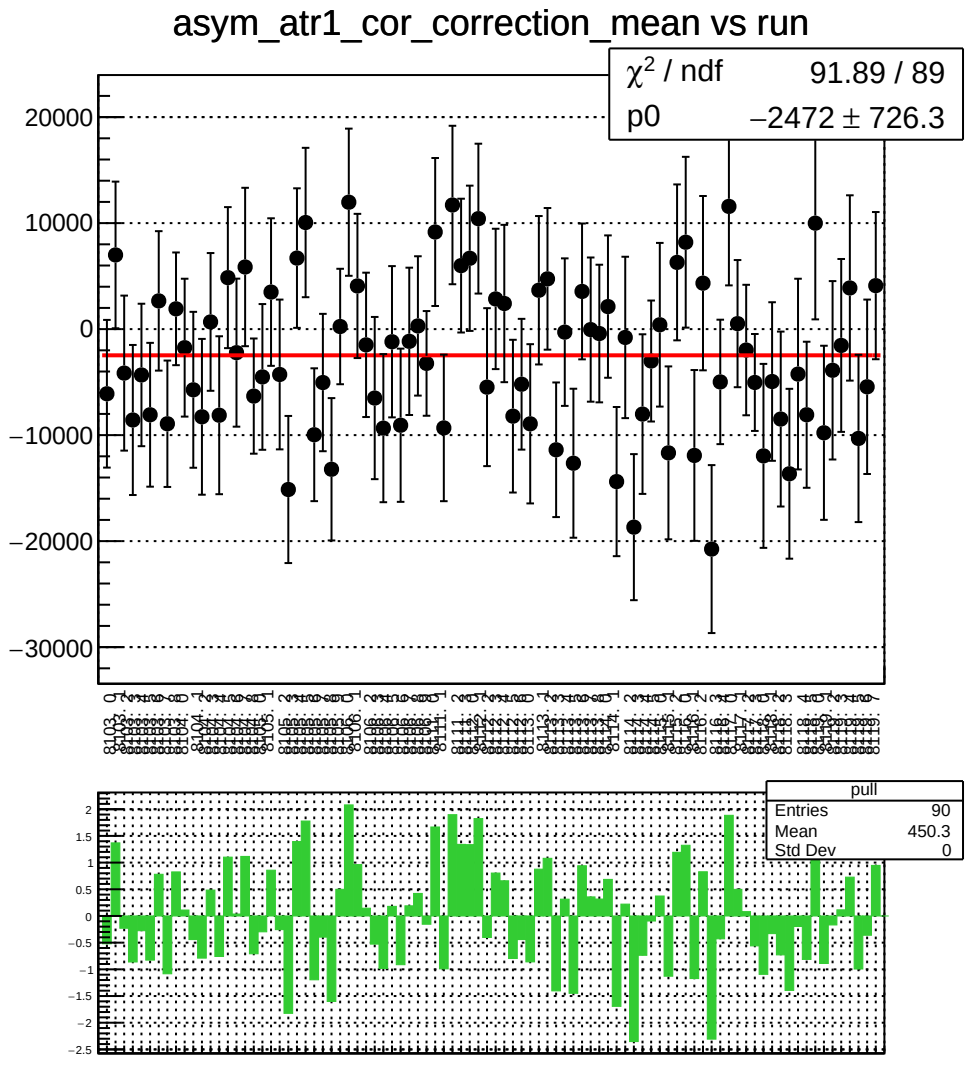

pull1D
Entries 90
Mean −0.004806
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

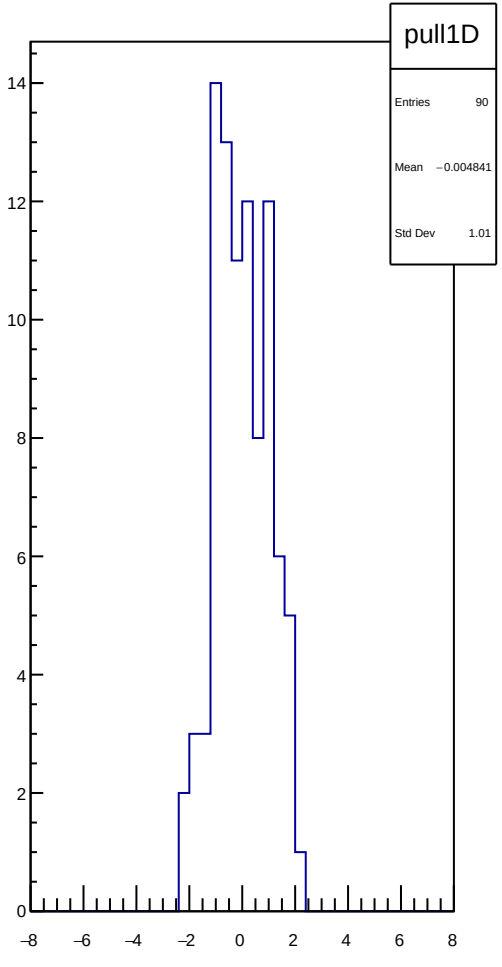

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.458e+04 / 89
p0 678.2 ± 0.5136
850
800
750
700
650
600
550

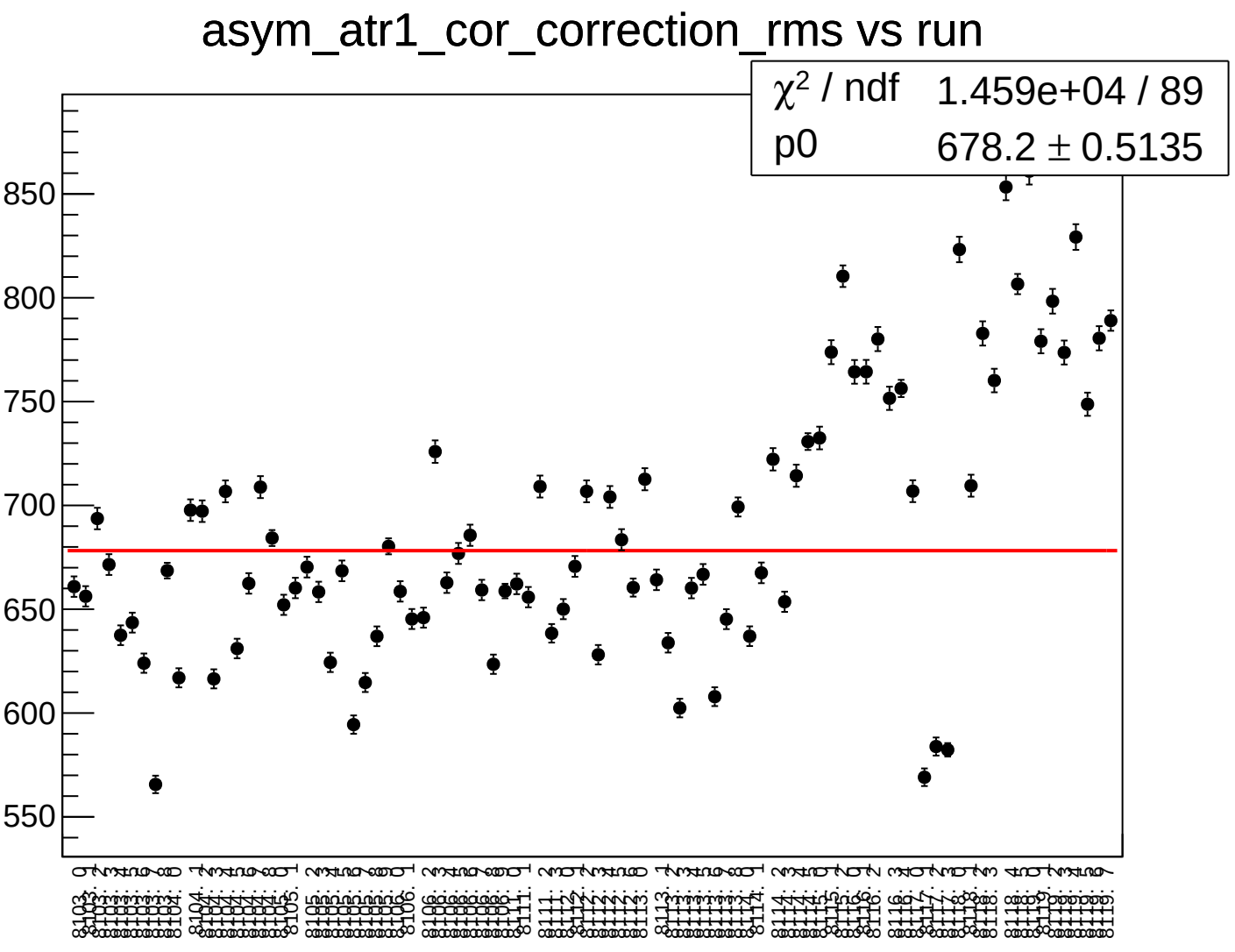

cor_asym_atr1_mean vs run
χ² / ndf 92.1 / 89
p0 1788 ± 2871
×10³
pull
Entries 90
Mean −207.9
Std Dev 0

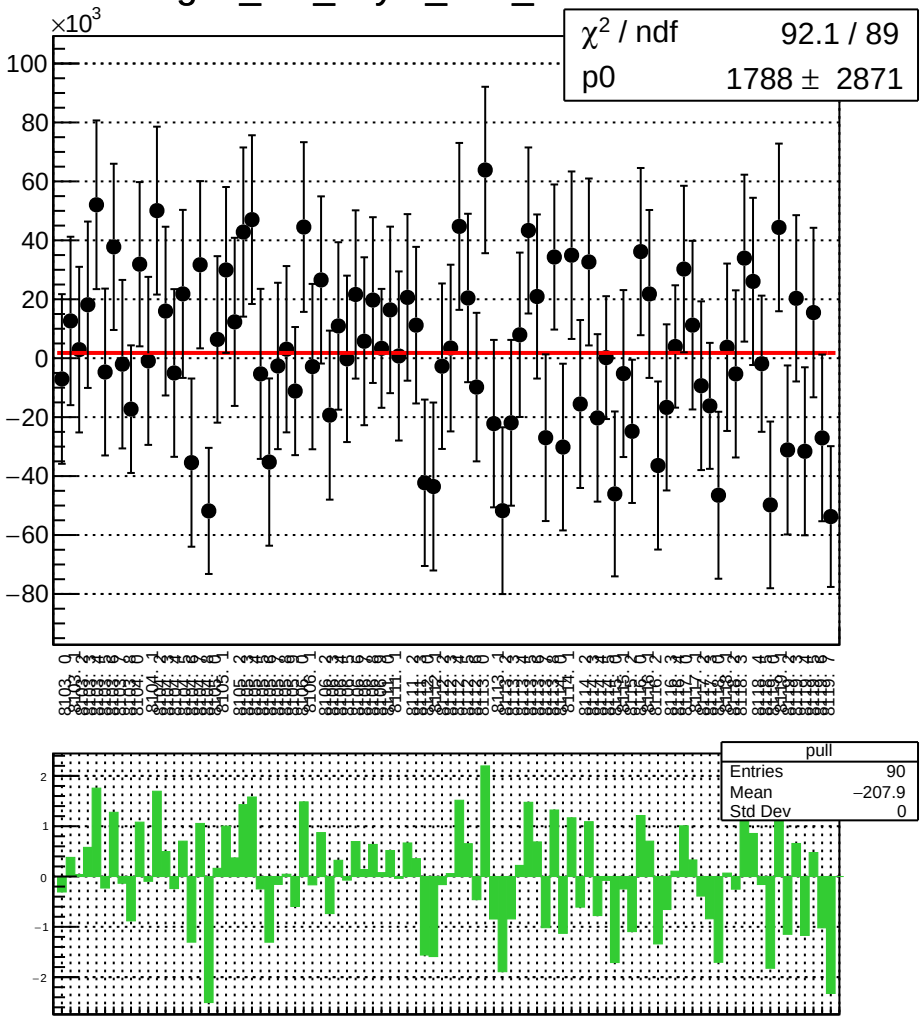

pull1D
Entries 90
Mean 0.02235
Std Dev 1.011

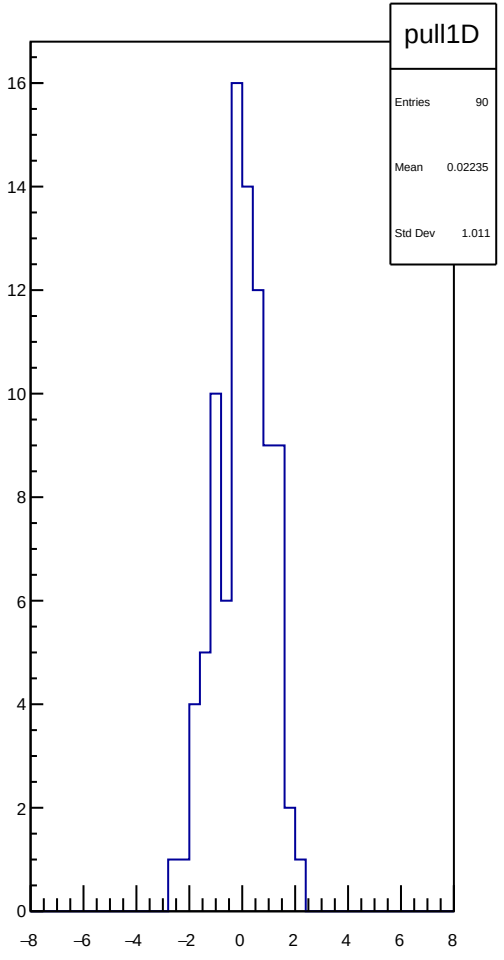

cor_asym_atr1_rms vs run
χ² / ndf 101.9 / 89
p0 2692 ± 2.03
2760
2740
2720
2700
2680
2660
2640
2620

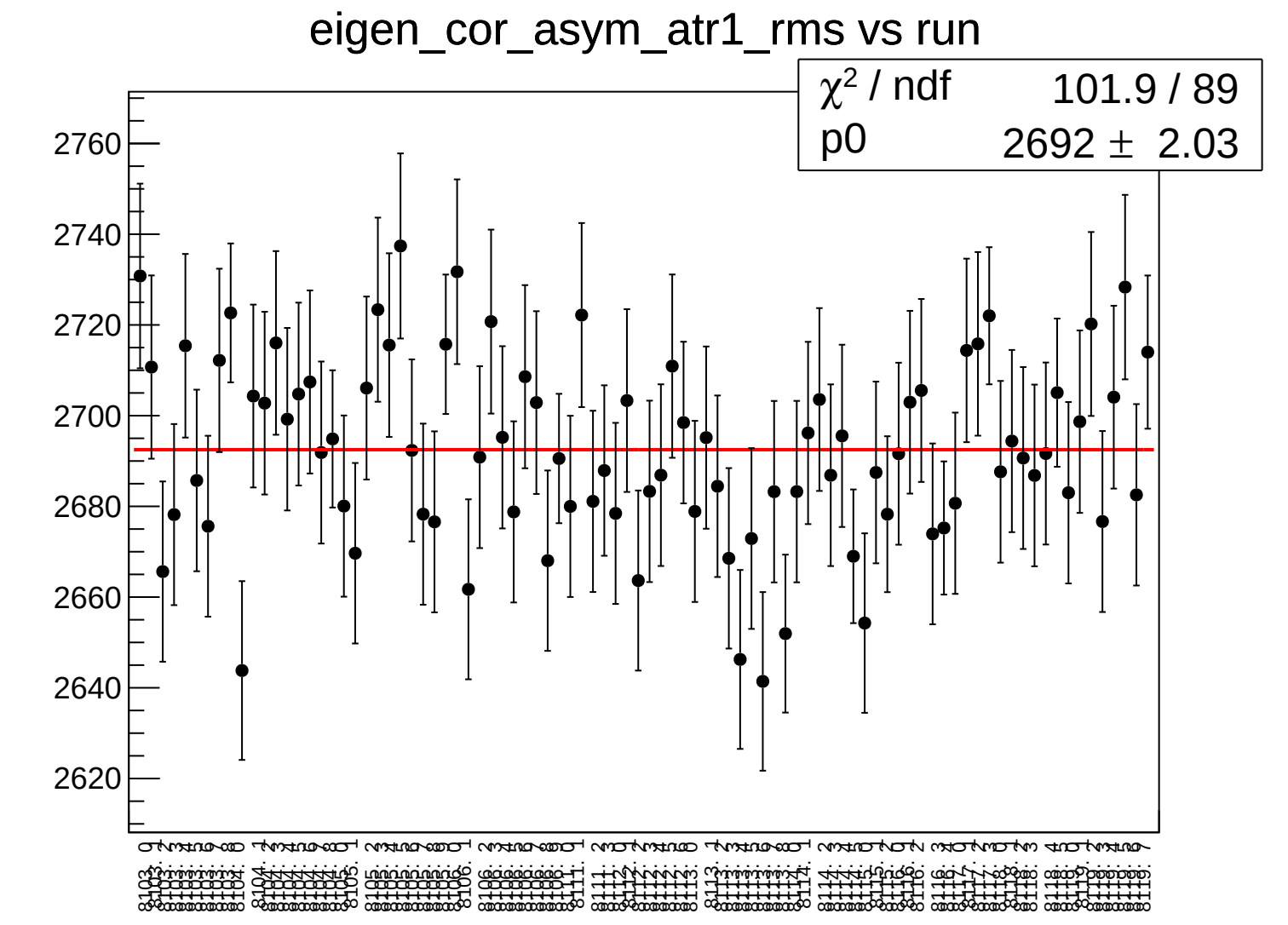

asym_atr1_cor_correction_mean vs run
χ² / ndf 91.89 / 89
p0 −2472 ± 726.3
pull
Entries 90
Mean 450.3
Std Dev 0

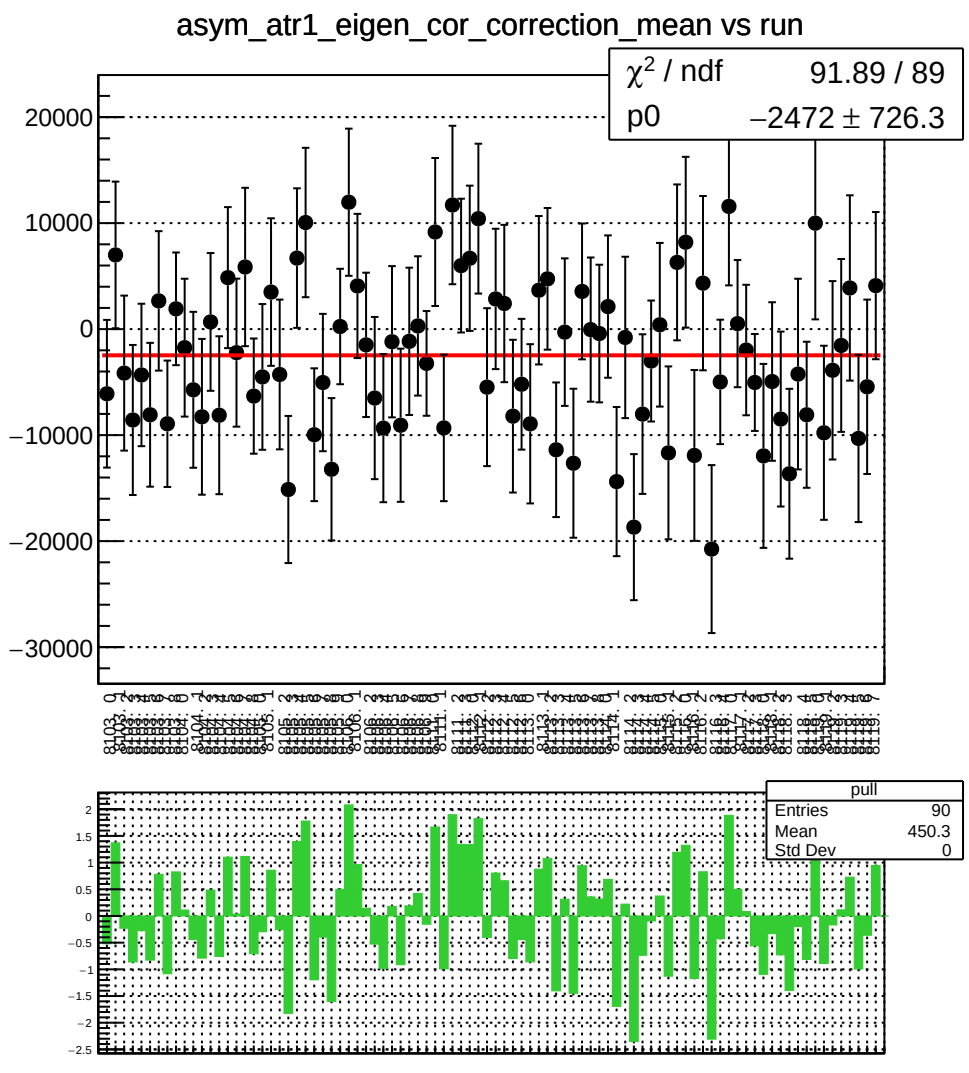

pull1D
Entries 90
Mean −0.004841
Std Dev 1.01

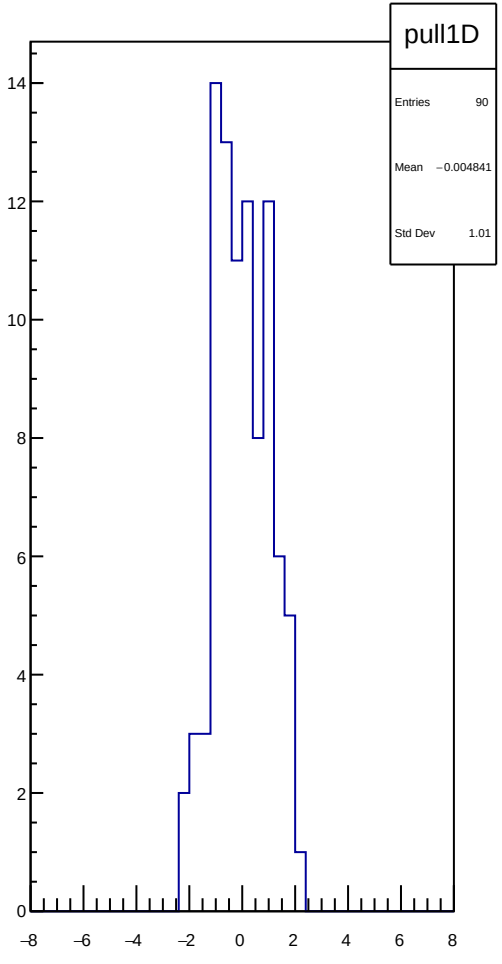

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.459e+04 / 89
p0 678.2 ± 0.5135
850
800
750
700
650
600
550

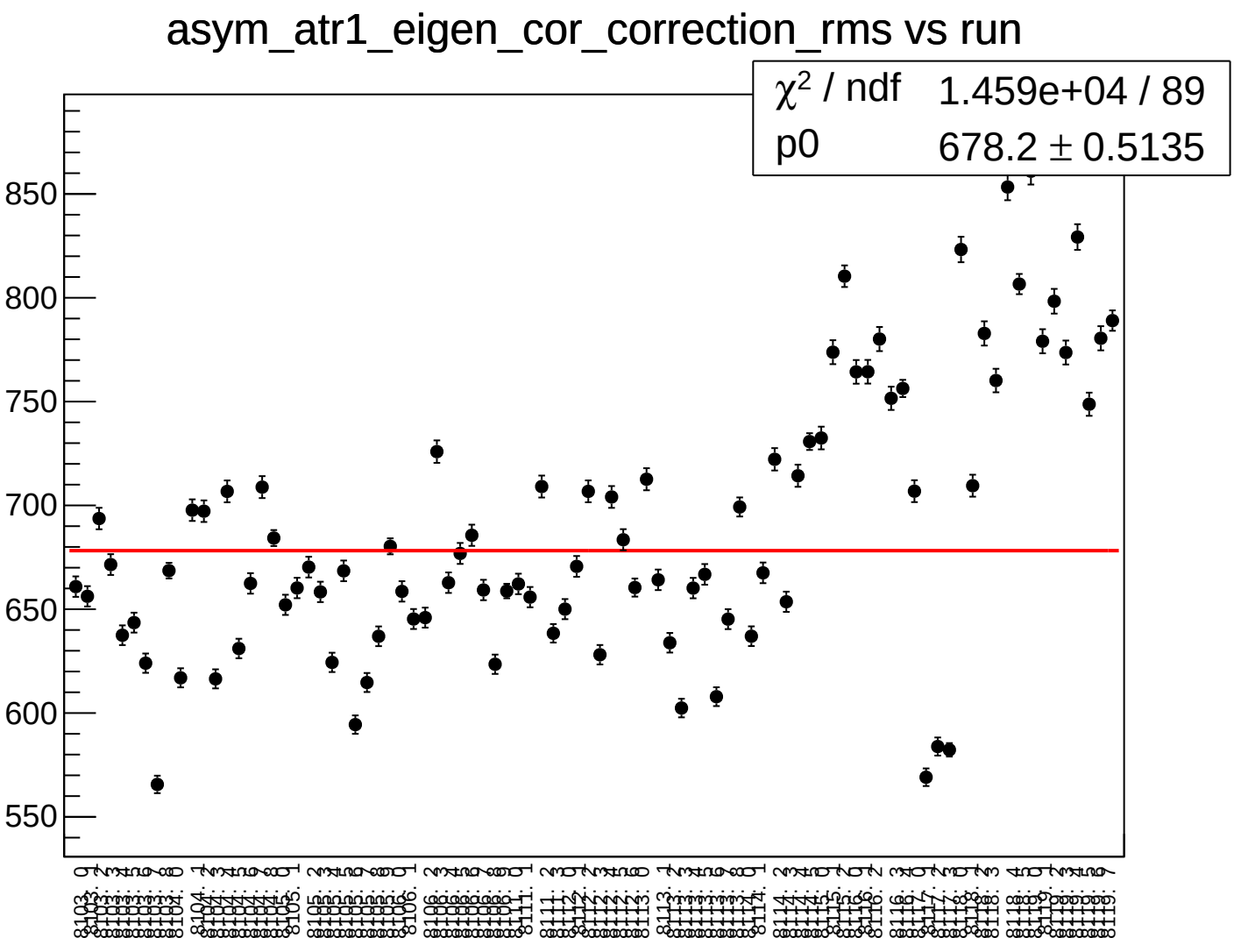

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 92.1 / 89
p0 1788 ± 2871
pull
Entries 90
Mean −207.9
Std Dev 0

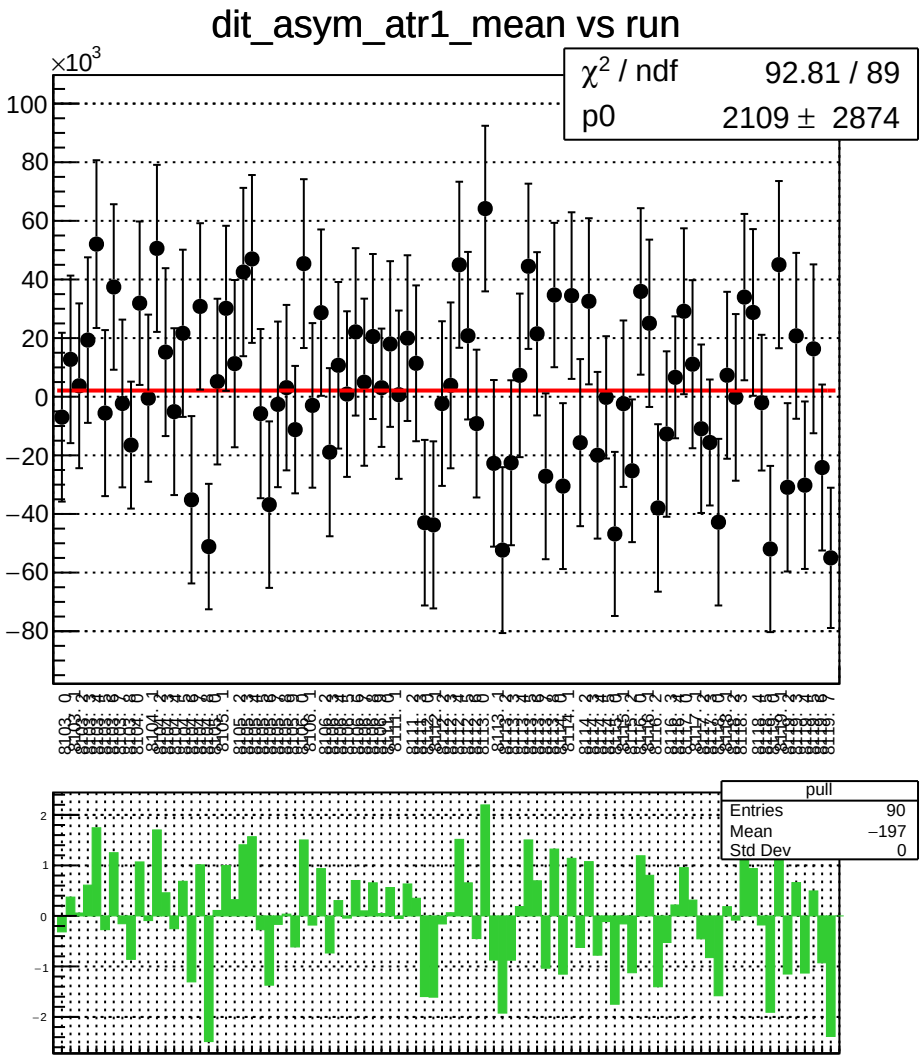

pull1D
Entries 90
Mean 0.02235
Std Dev 1.011

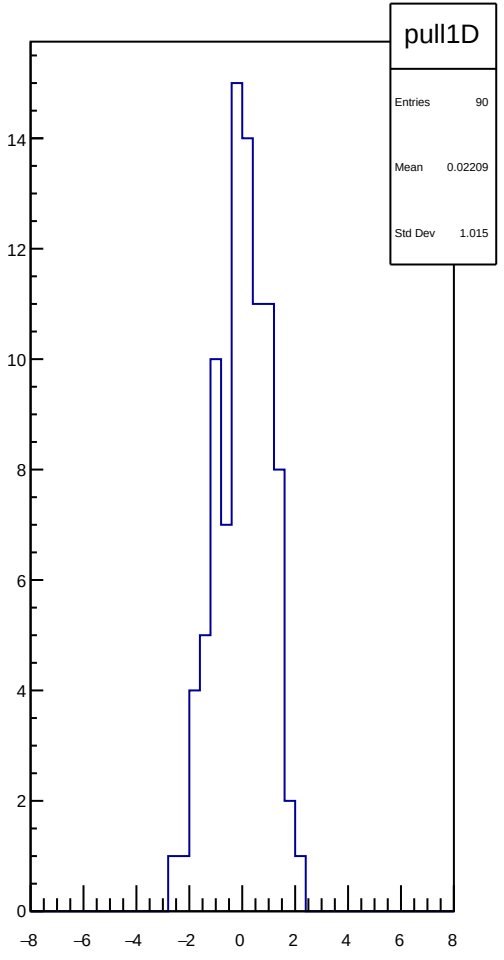

eigen_cor_asym_atr1_rms vs run
χ² / ndf 101.9 / 89
p0 2692 ± 2.03
2760
2740
2720
2700
2680
2660
2640
2620

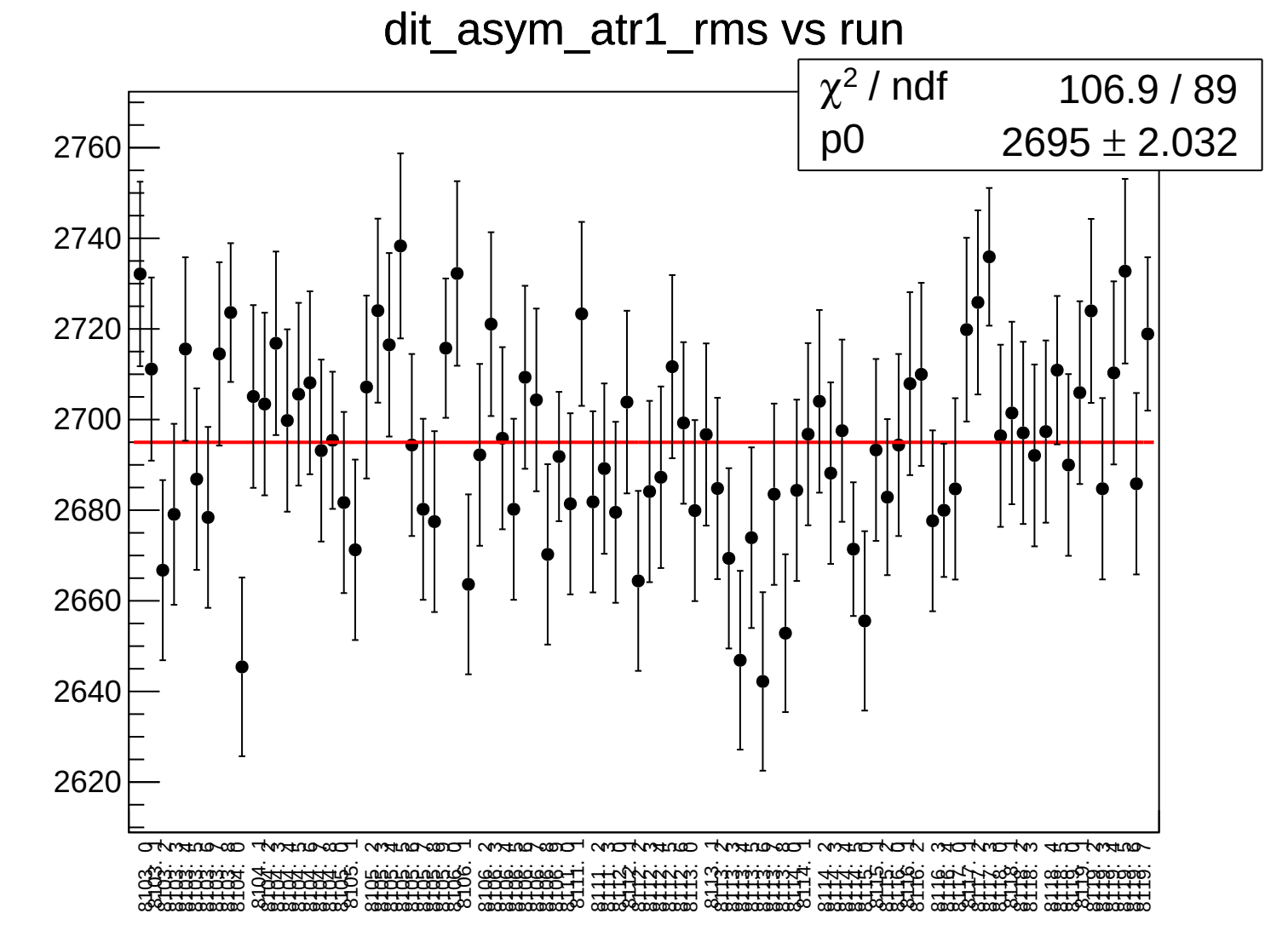

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 91.89 / 89
p0 −2472 ± 726.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 450.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

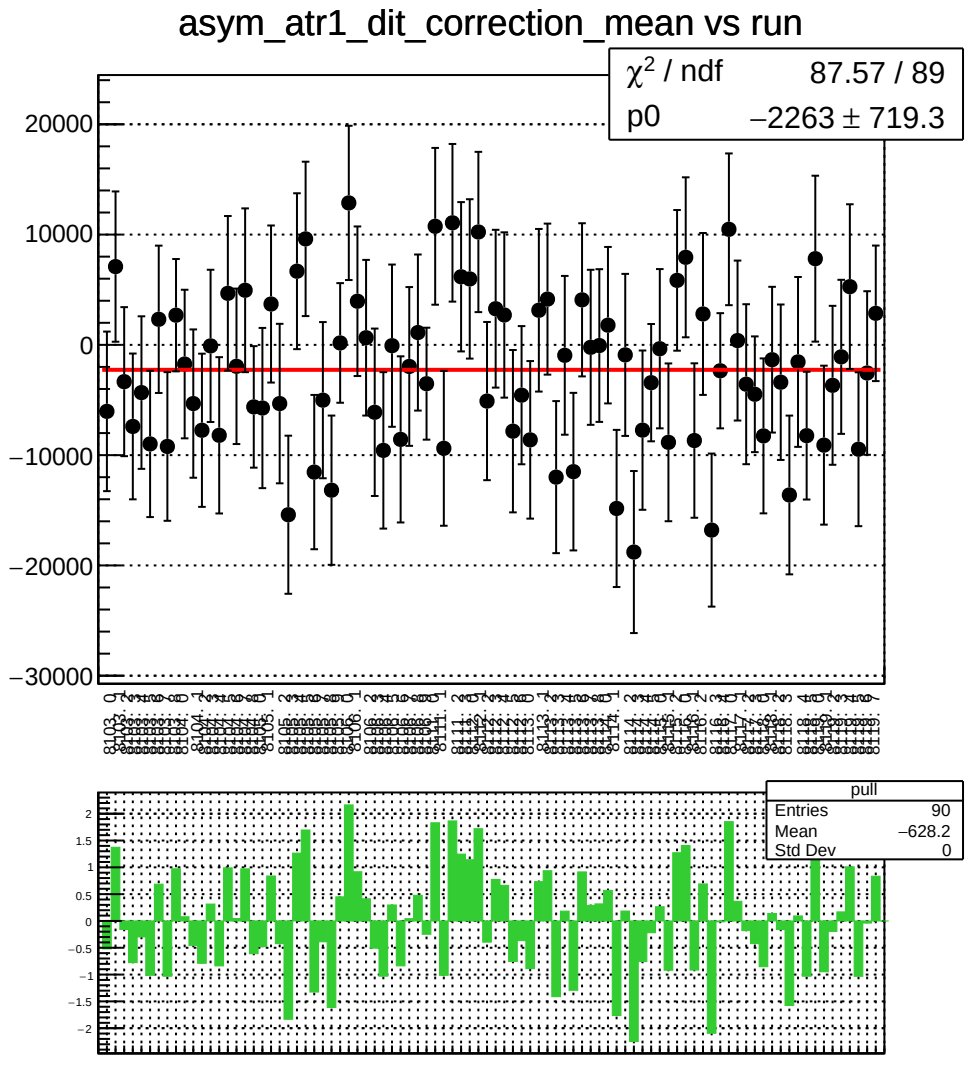

pull1D
Entries 90
Mean −0.004841
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

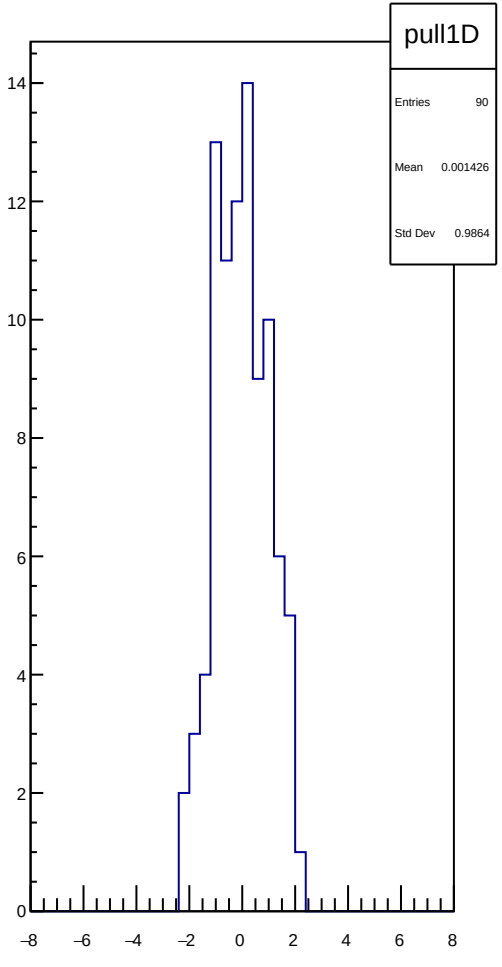

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.459e+04 / 89
p0 678.2 ± 0.5135
850
800
750
700
650
600
550

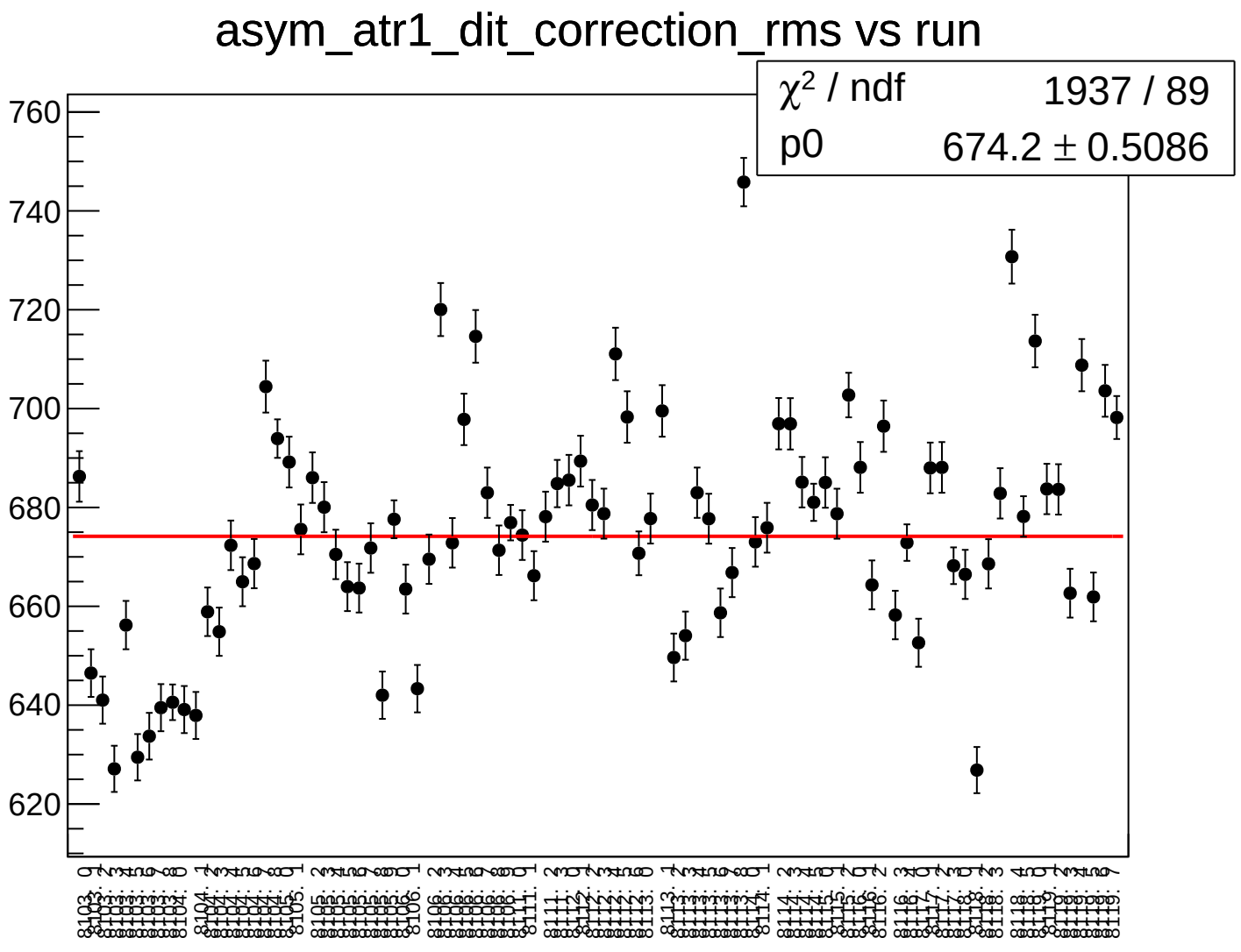

dit_asym_atr1_mean vs run
χ^2 / ndf 92.81 / 89
p0 2109 ± 2874
×10^3
pull
Entries 90
Mean −197
Std Dev 0

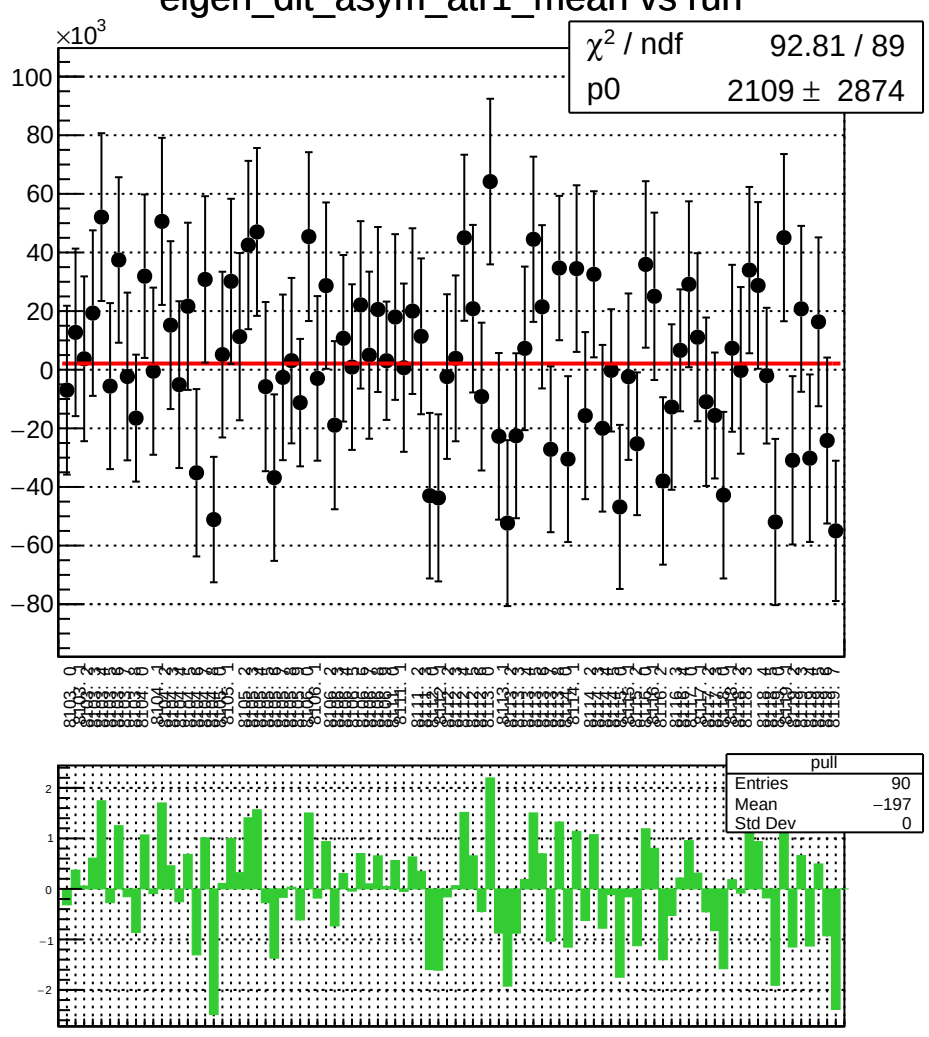

pull1D
Entries 90
Mean 0.02209
Std Dev 1.015

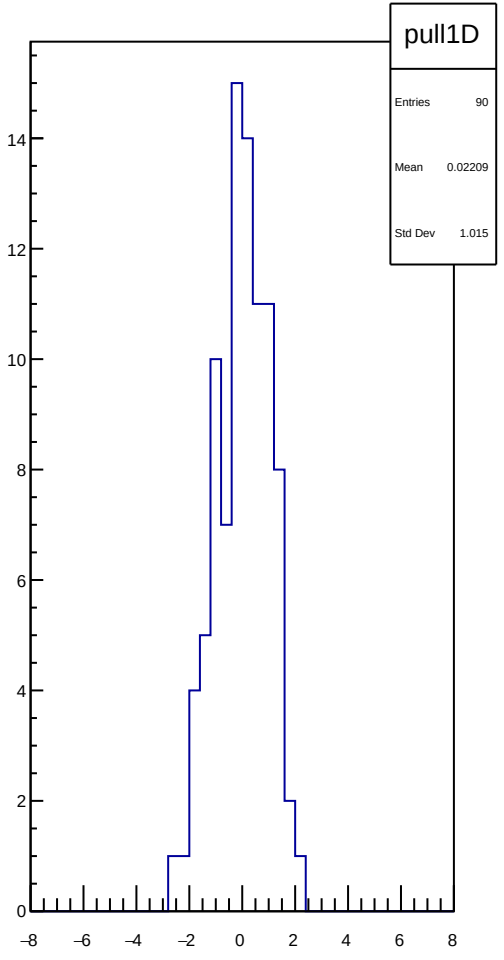

dit_asym_atr1_rms vs run
χ² / ndf 106.9 / 89
p0 2695 ± 2.032
2760
2740
2720
2700
2680
2660
2640
2620

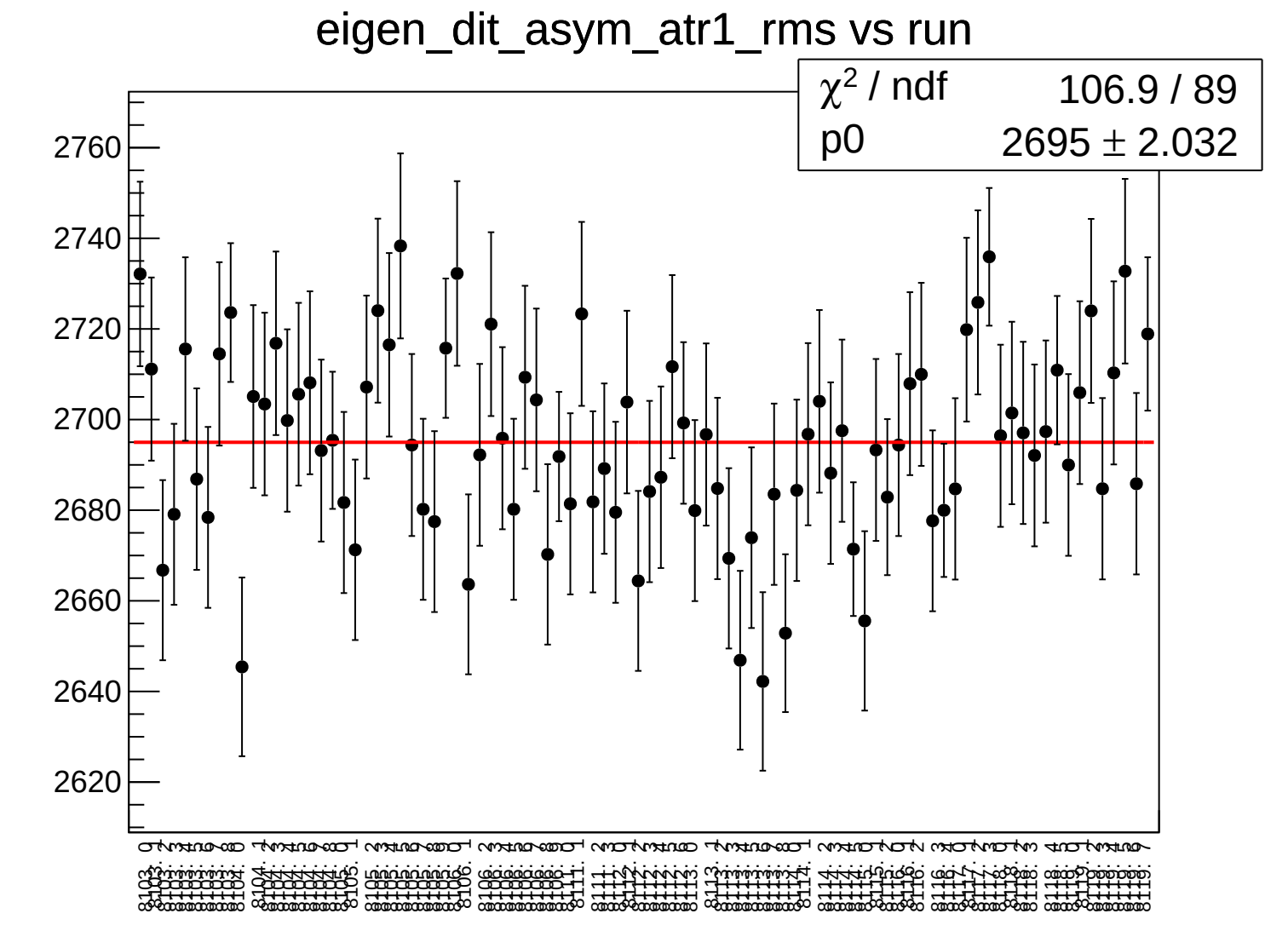

asym_atr1_dit_correction_mean vs run
χ² / ndf 87.57 / 89
p0 −2263 ± 719.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −628.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

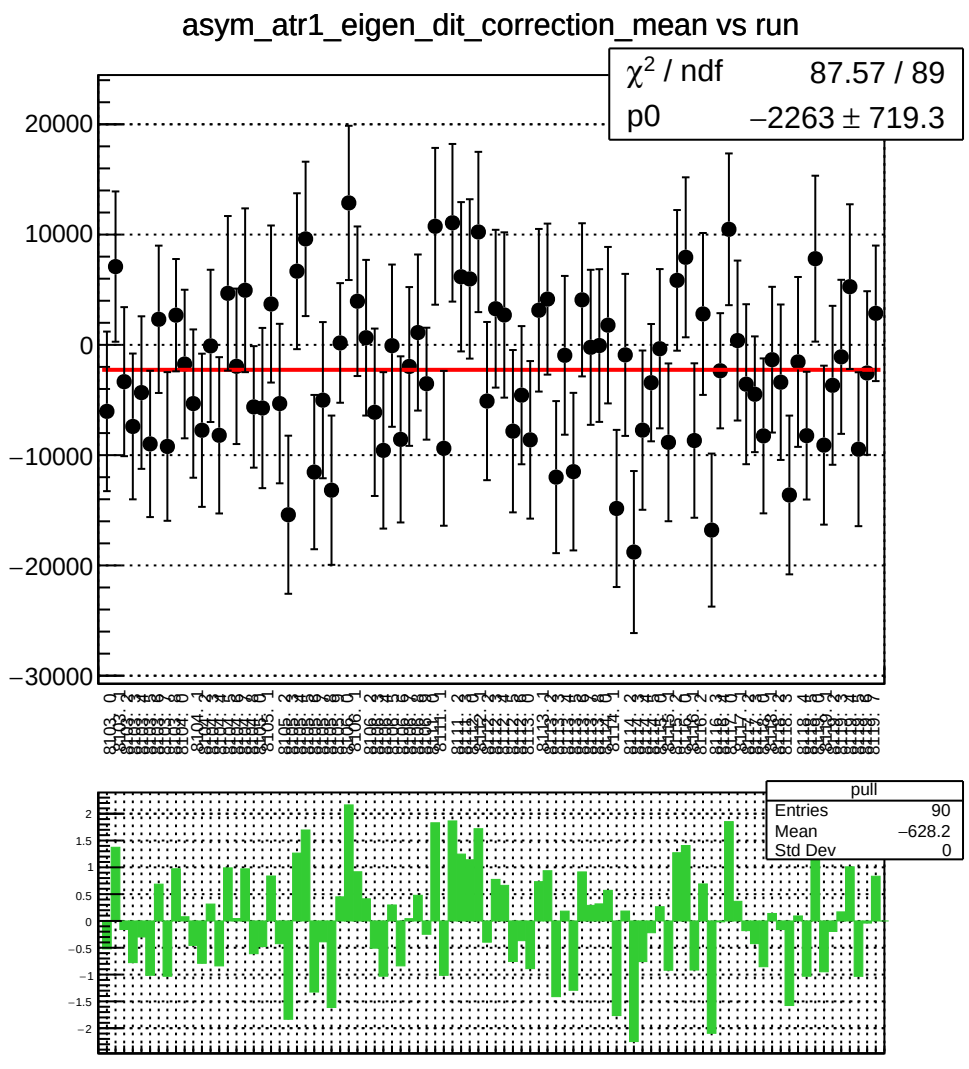

pull1D
Entries 90
Mean 0.001426
Std Dev 0.9864
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

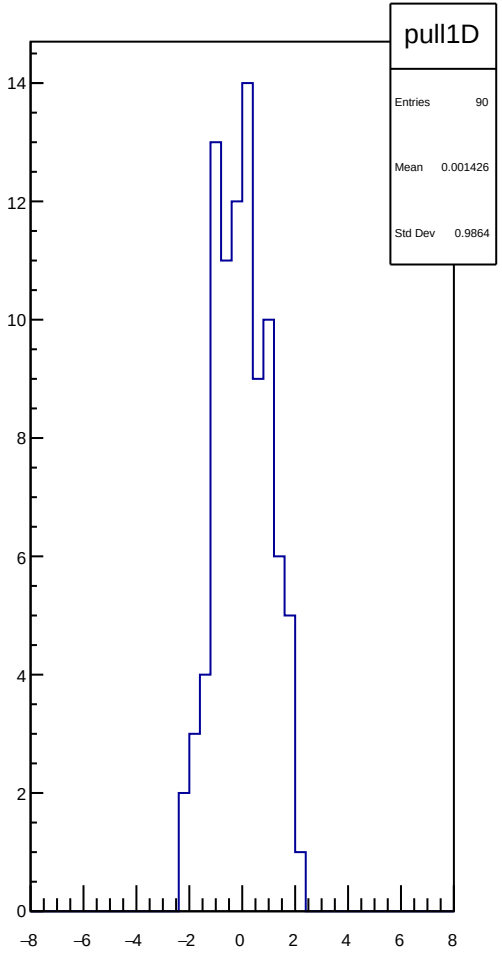

asym_atr1_dit_correction_rms vs run
χ² / ndf 1937 / 89
p0 674.2 ± 0.5086
760
740
720
700
680
660
640
620

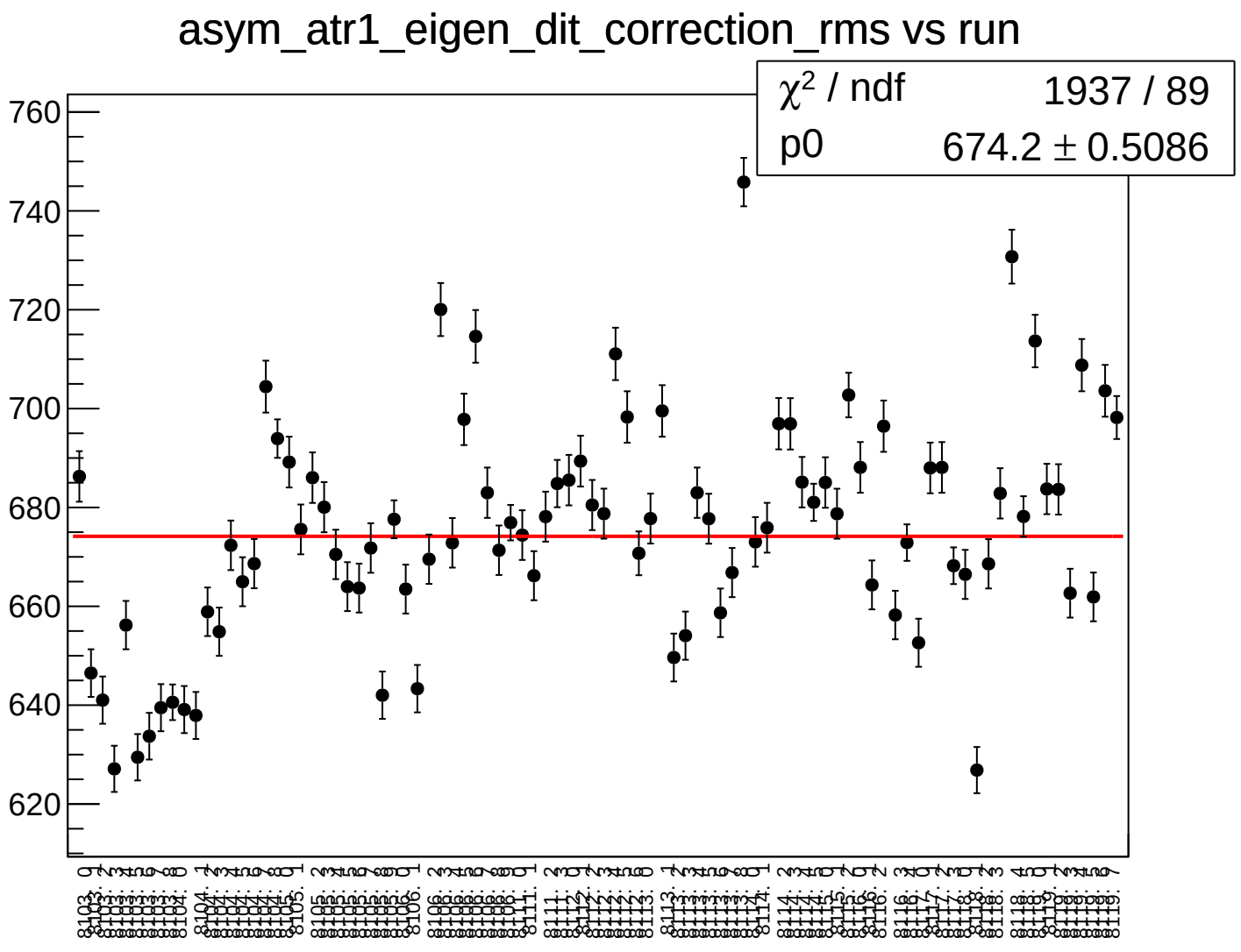

eigen_dit_asym_atr1_mean vs run
χ² / ndf 92.81 / 89
p0 2109 ± 2874
×10³
pull
Entries 90
Mean −197
Std Dev 0

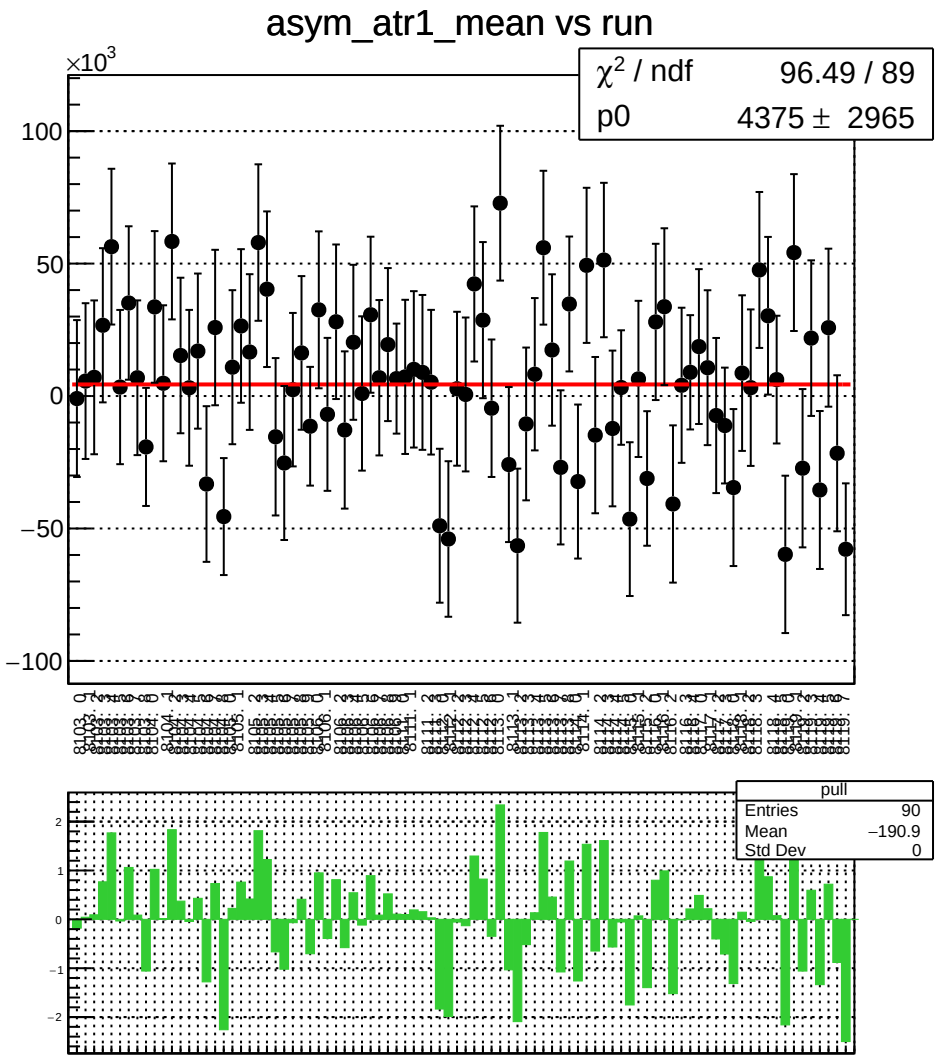

pull1D
Entries 90
Mean 0.02209
Std Dev 1.015

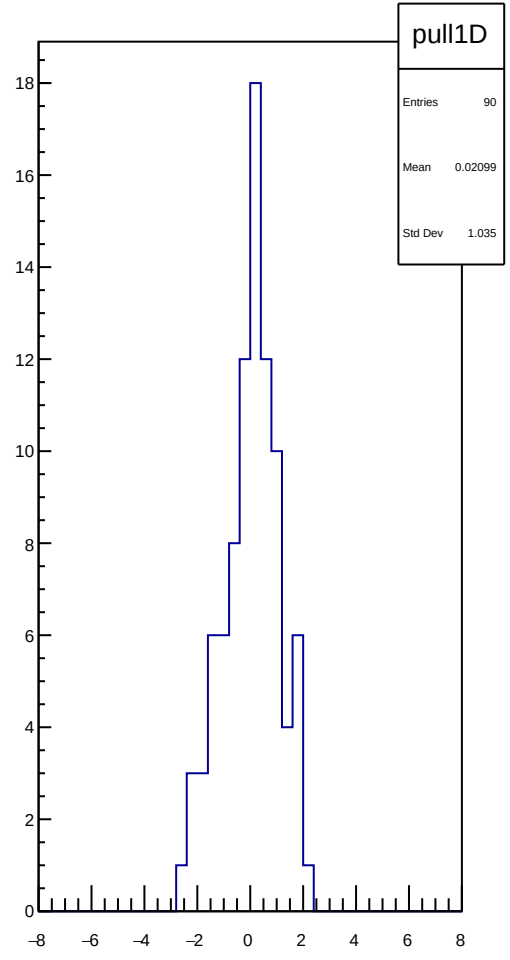

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 106.9 / 89
p0 2695 ± 2.032
2760
2740
2720
2700
2680
2660
2640
2620

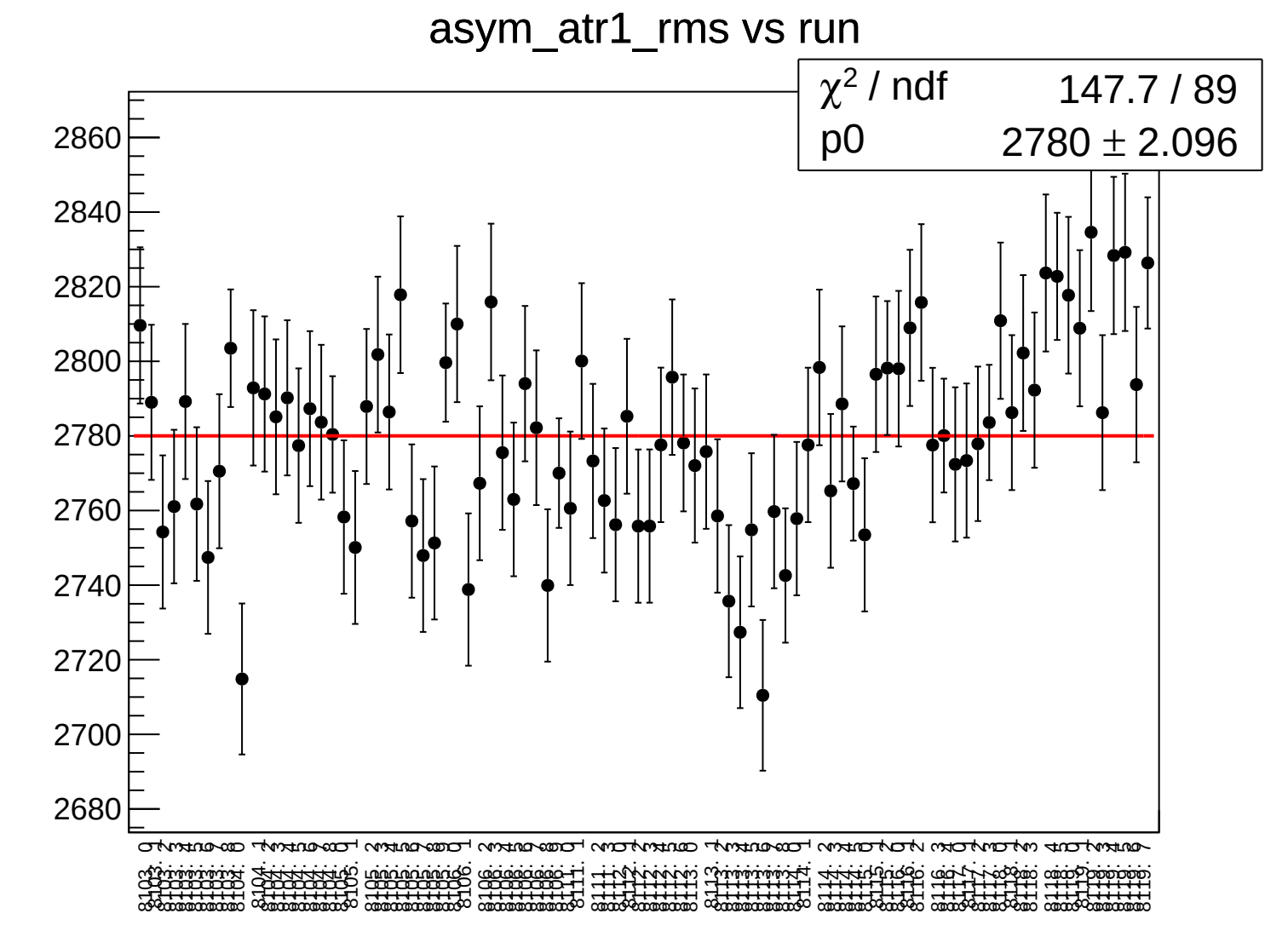

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 87.57 / 89
p0 −2263 ± 719.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −628.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

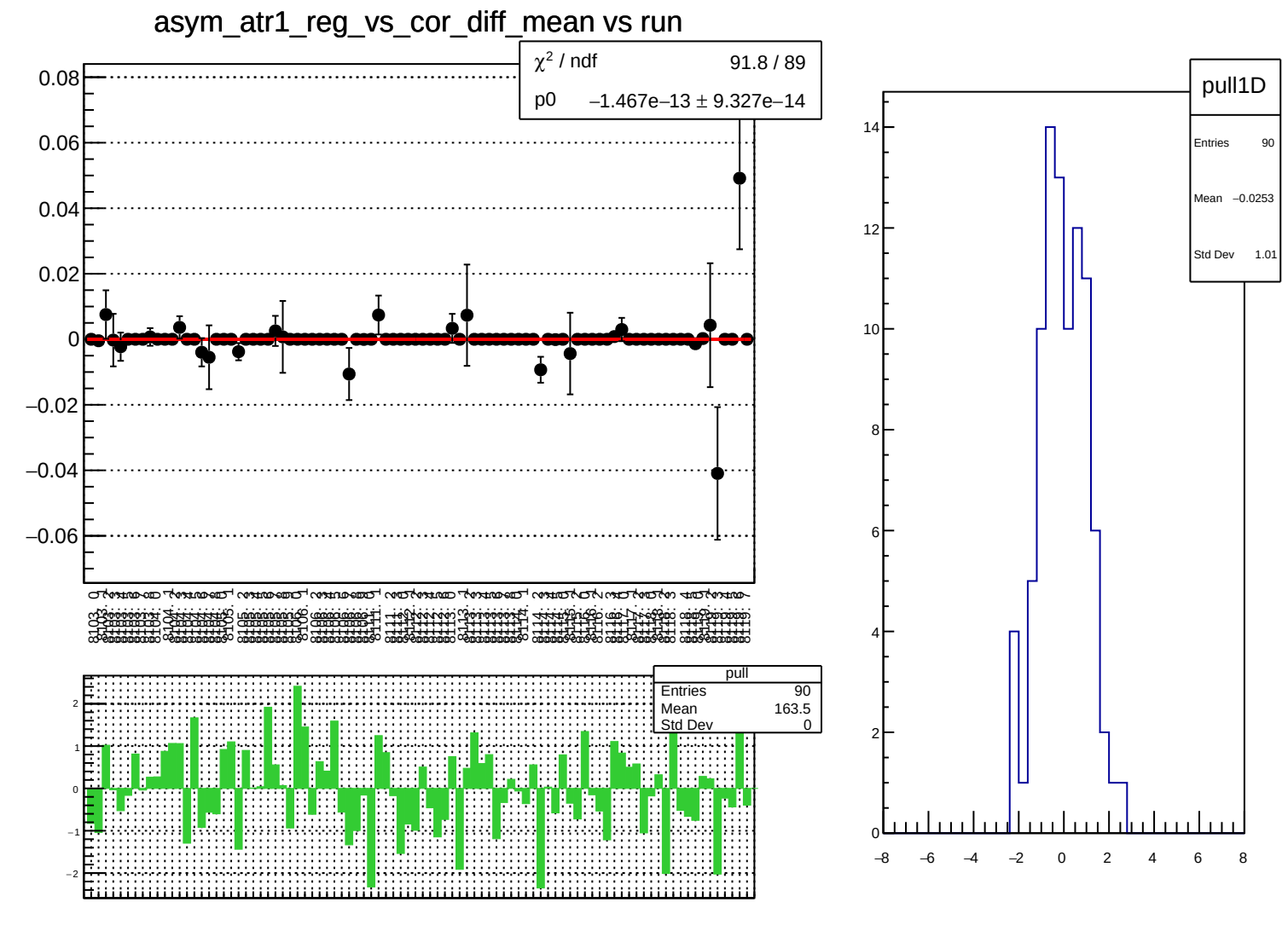

pull1D
Entries 90
Mean 0.001426
Std Dev 0.9864
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

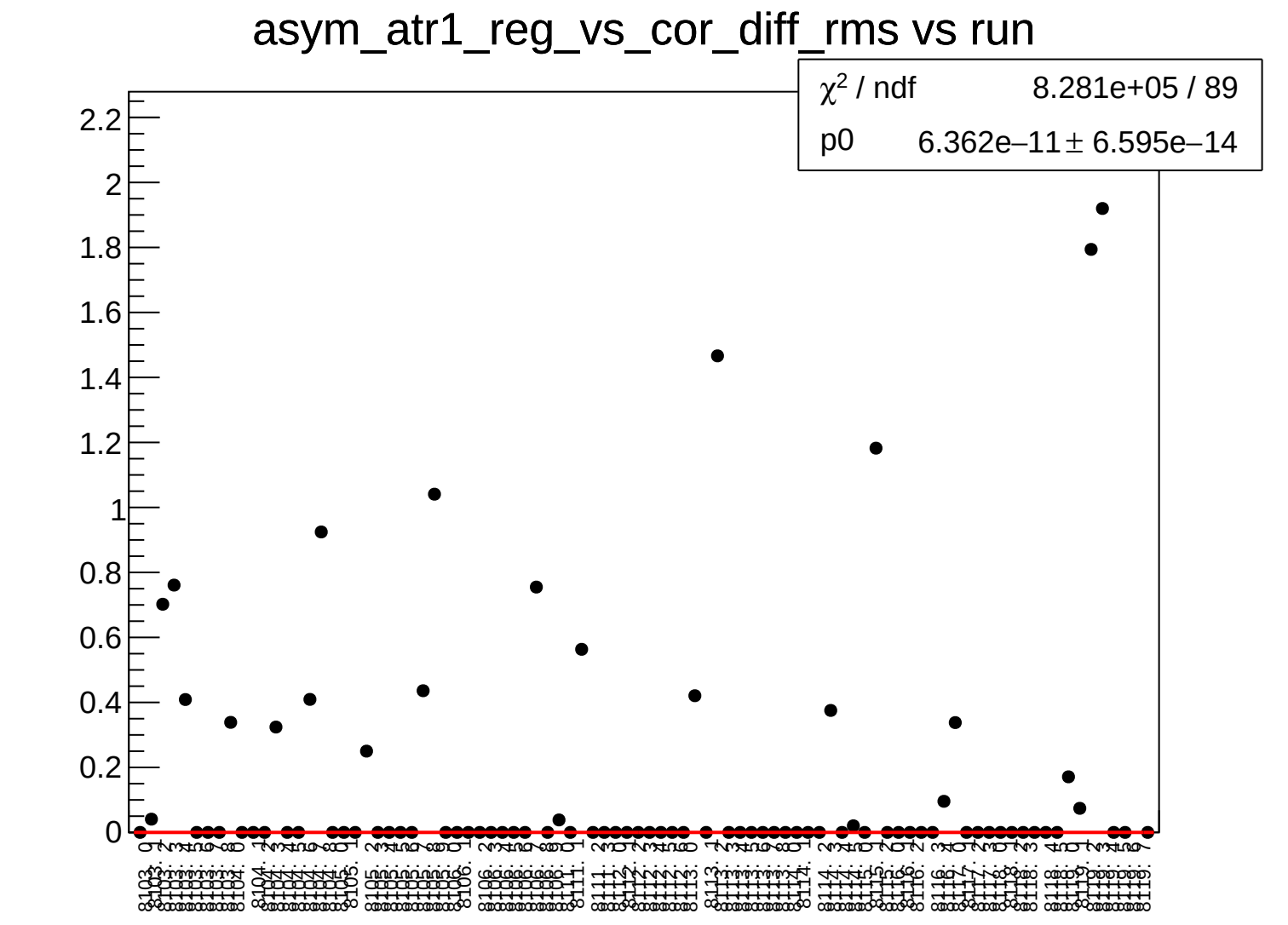

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1937 / 89
p0 674.2 ± 0.5086
760
740
720
700
680
660
640
620

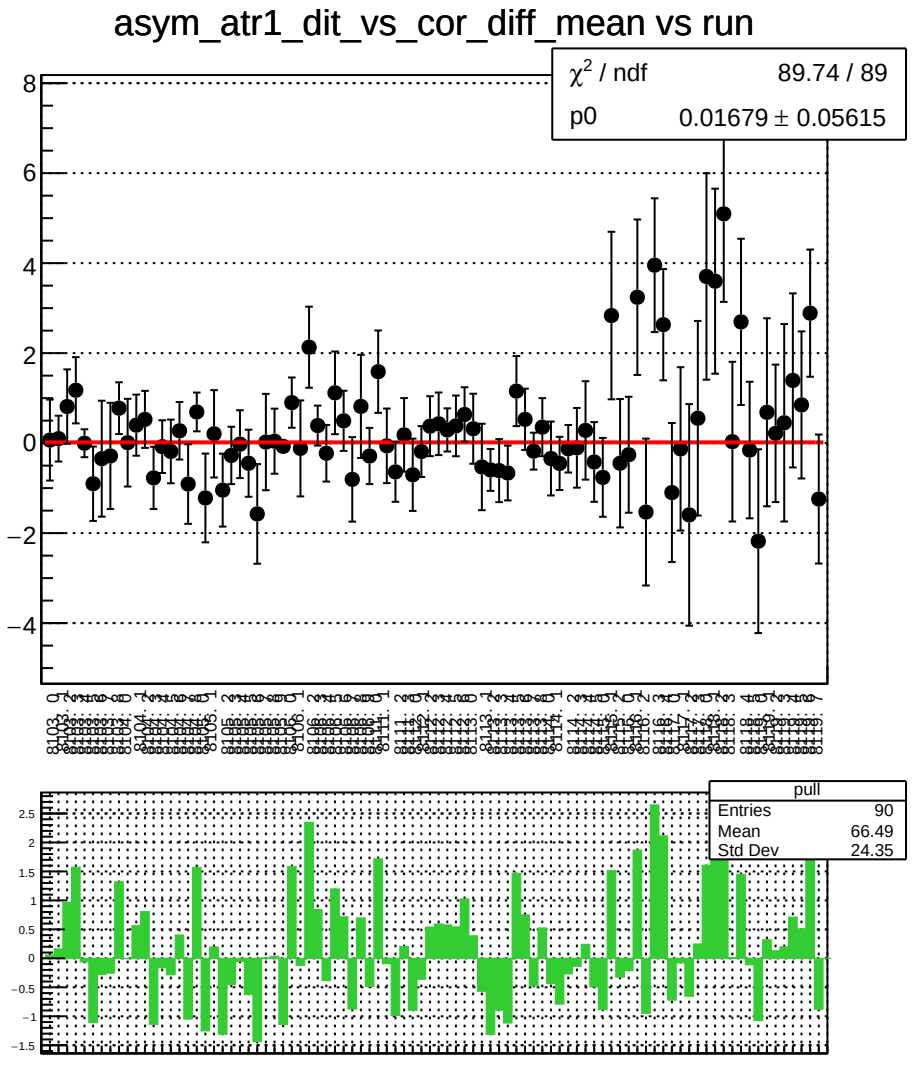

asym_atr1_mean vs run
×10^3
χ² / ndf 96.49 / 89
p0 4375 ± 2965
100
50
0
−50
−100
pull
Entries 90
Mean −190.9
Std Dev 0
2
1
0
−1
−2

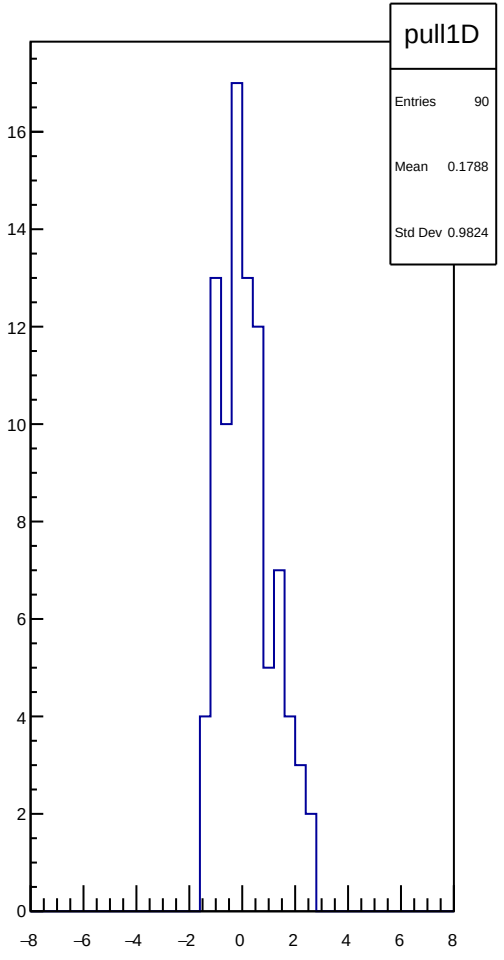

pull1D
Entries 90
Mean 0.02099
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

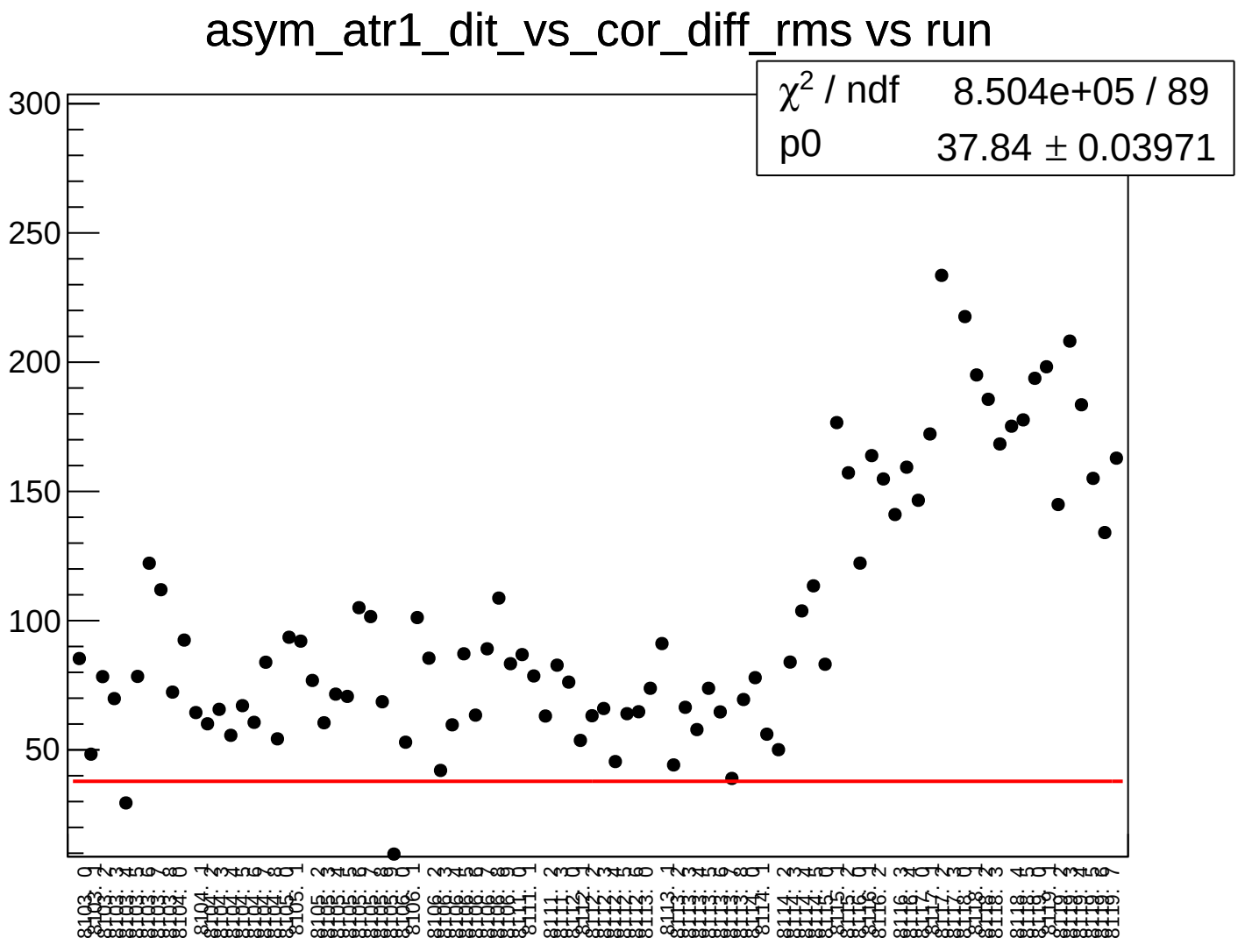

asym_atr1_rms vs run
χ^2 / ndf 147.7 / 89
p0 2780 ± 2.096
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

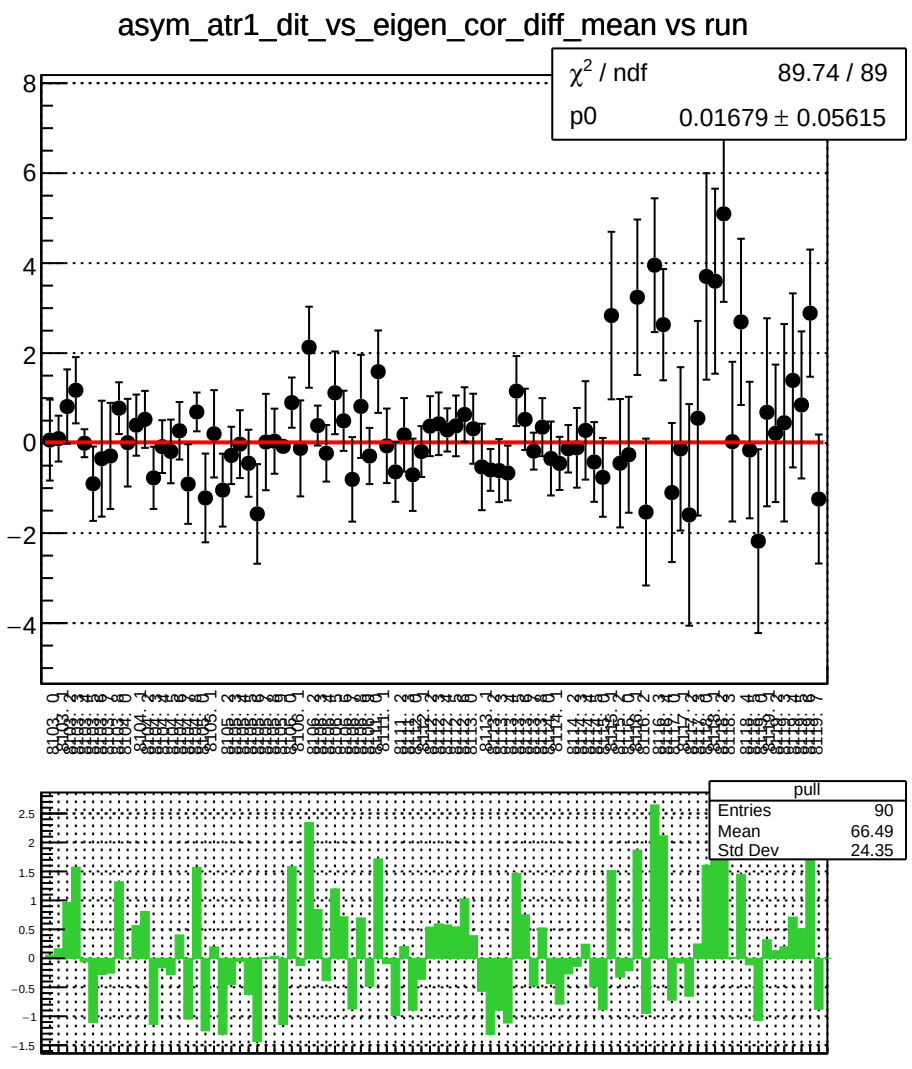

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 91.8 / 89
p0 −1.467e−13 ± 9.327e−14
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean 163.5
Std Dev 0
pull1D
Entries 90
Mean −0.0253
Std Dev 1.01

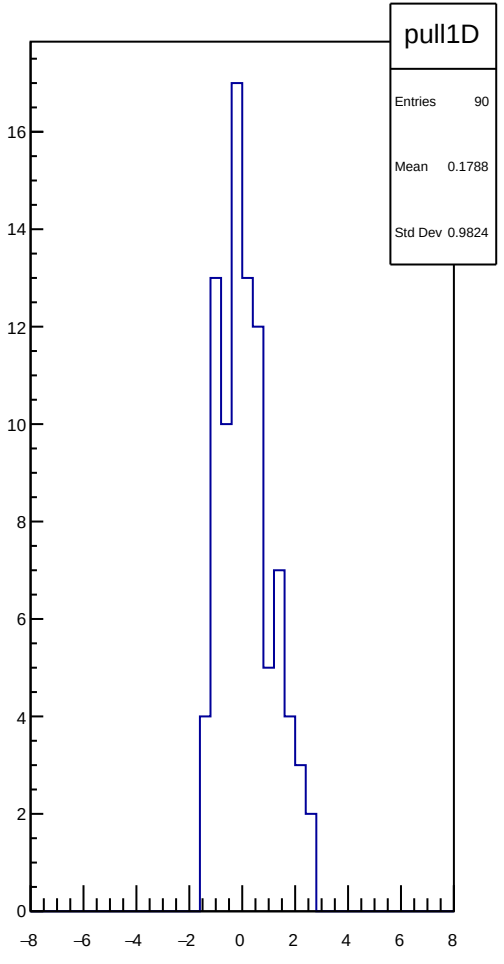

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.281e+05 / 89
p0 6.362e−11 ± 6.595e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

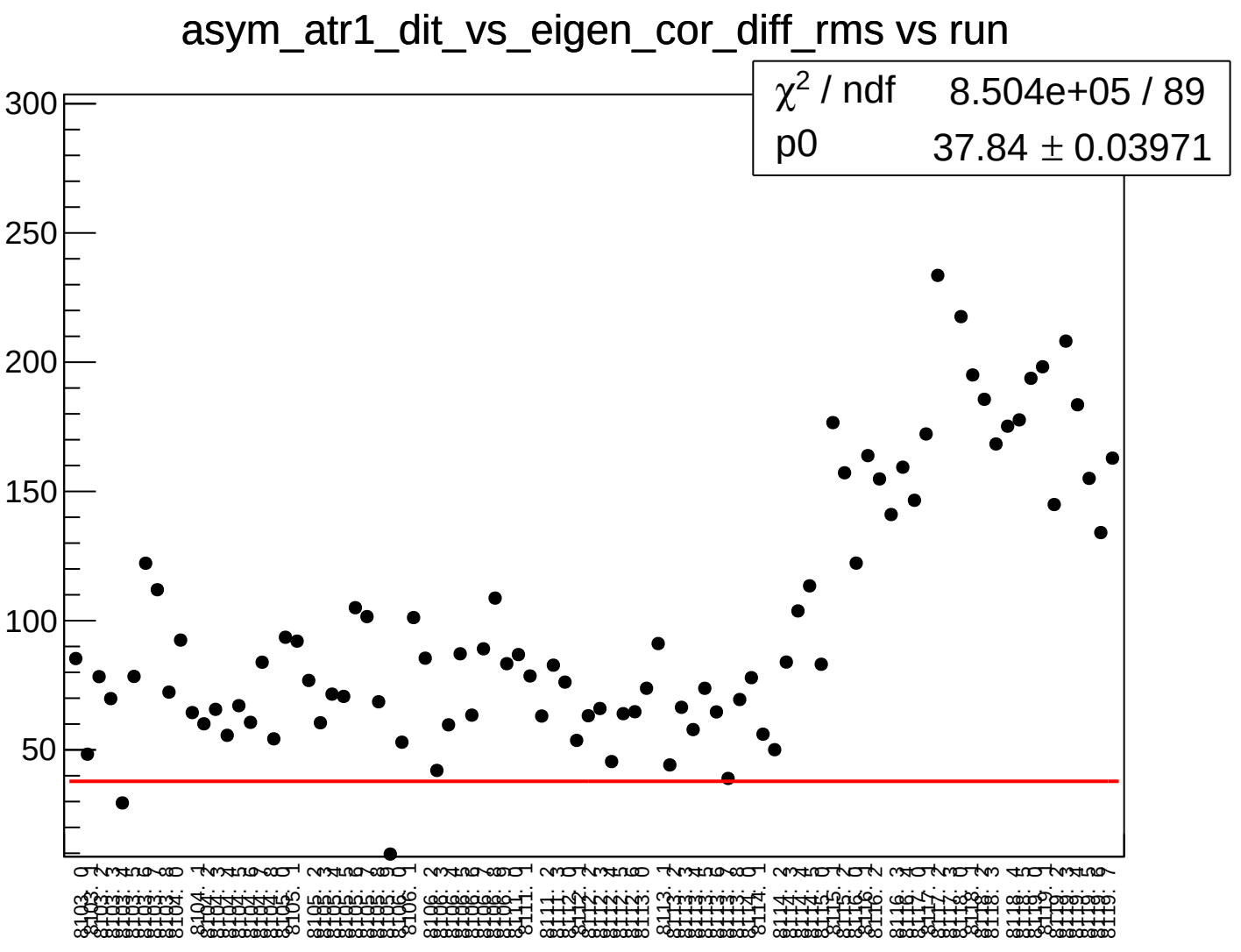

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 89.74 / 89
p0 0.01679 ± 0.05615
pull
Entries 90
Mean 66.49
Std Dev 24.35

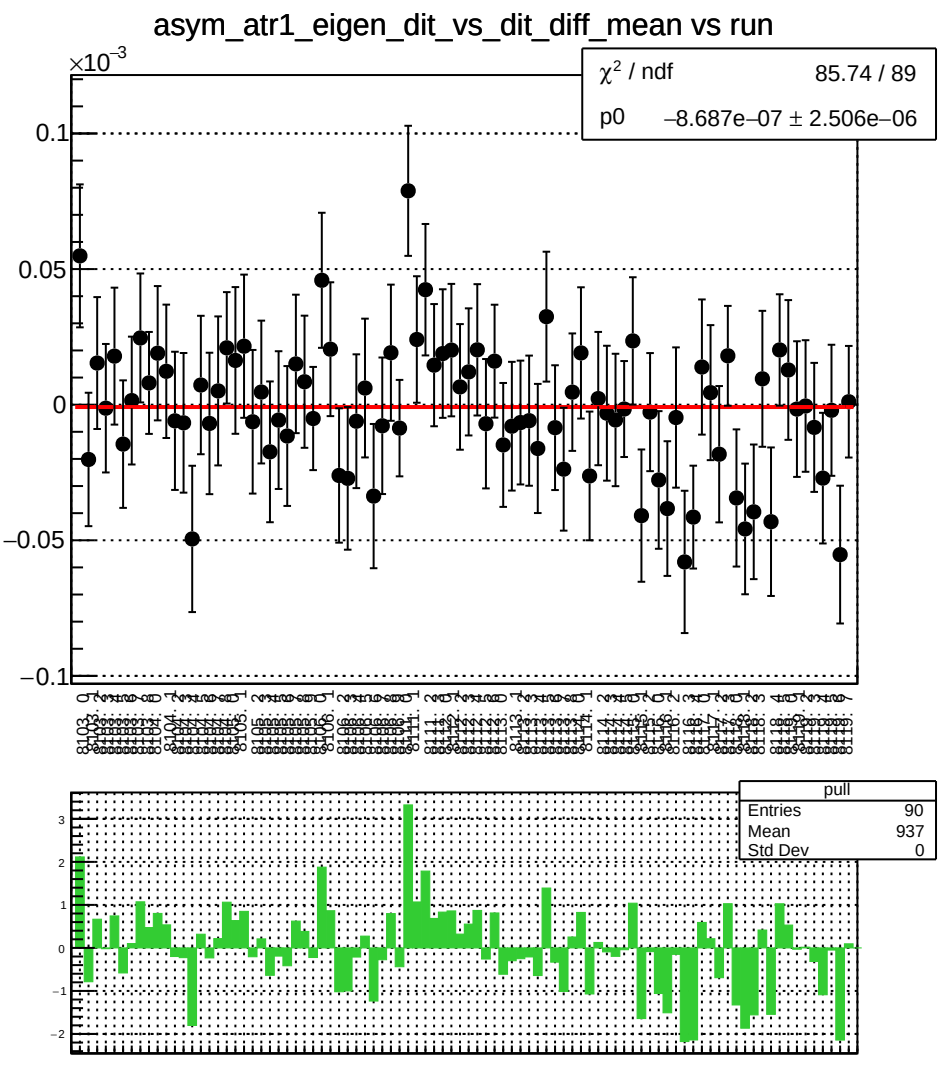

pull1D
Entries 90
Mean 0.1788
Std Dev 0.9824

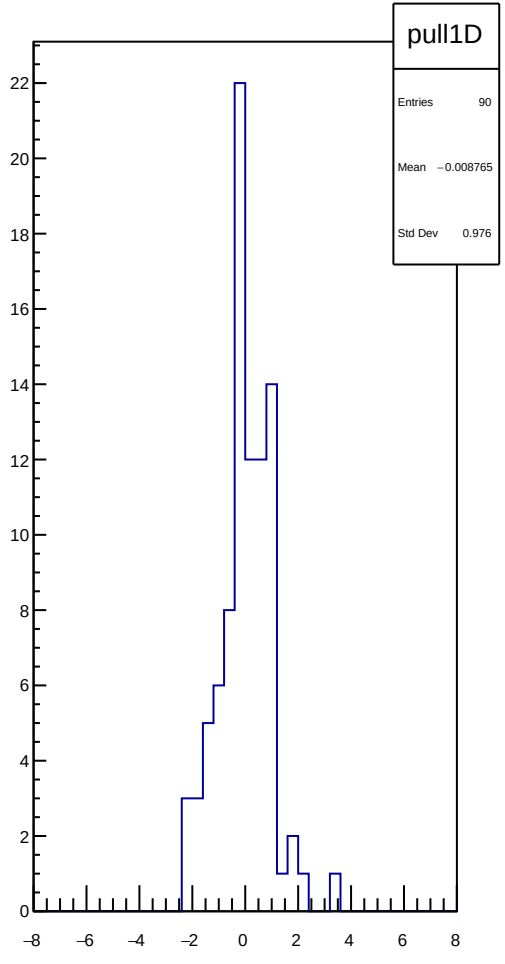

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 8.504e+05 / 89
p0 37.84 ± 0.03971
300
250
200
150
100
50

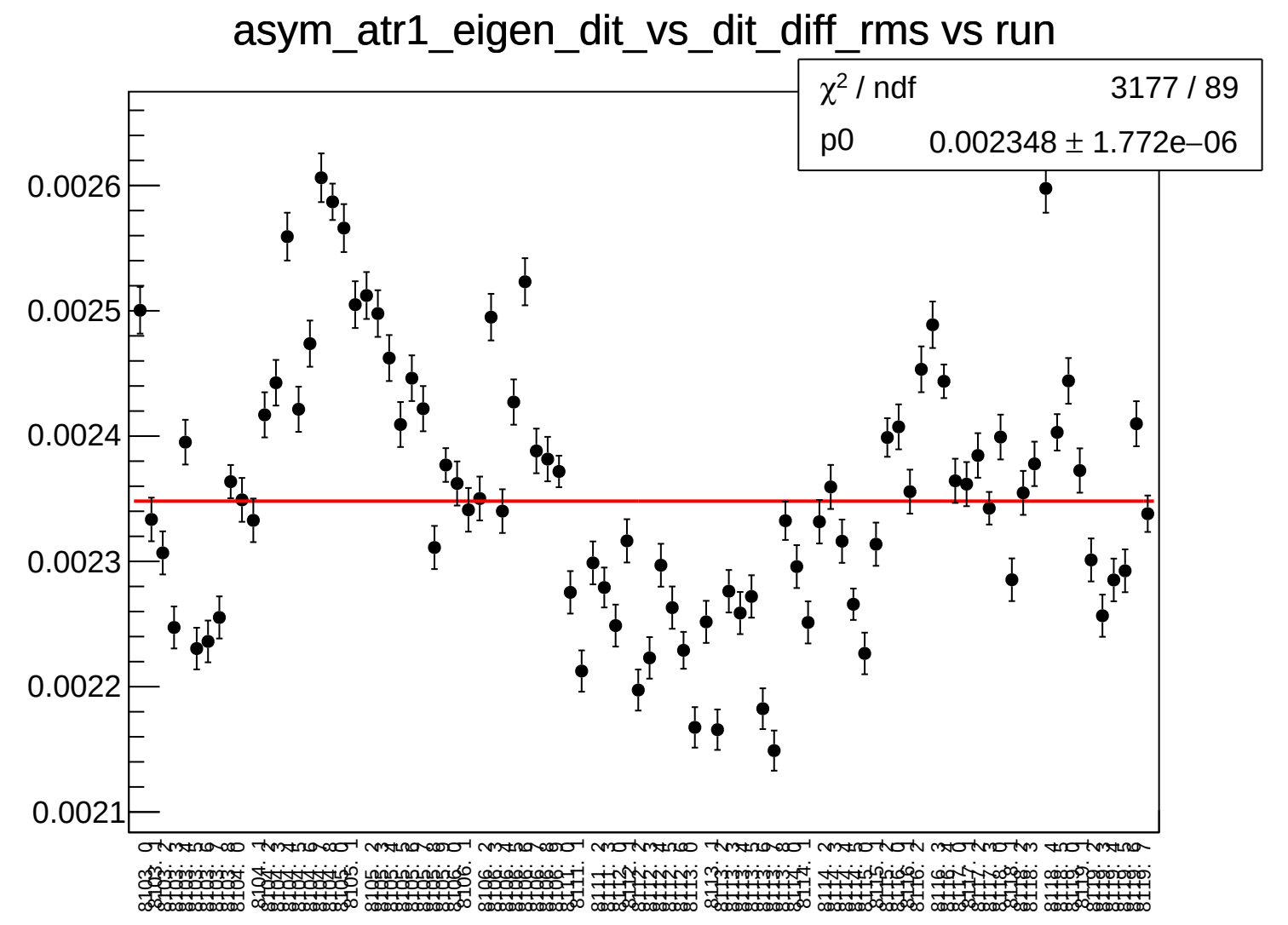

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.74 / 89
p0 0.01679 ± 0.05615
pull
Entries 90
Mean 66.49
Std Dev 24.35

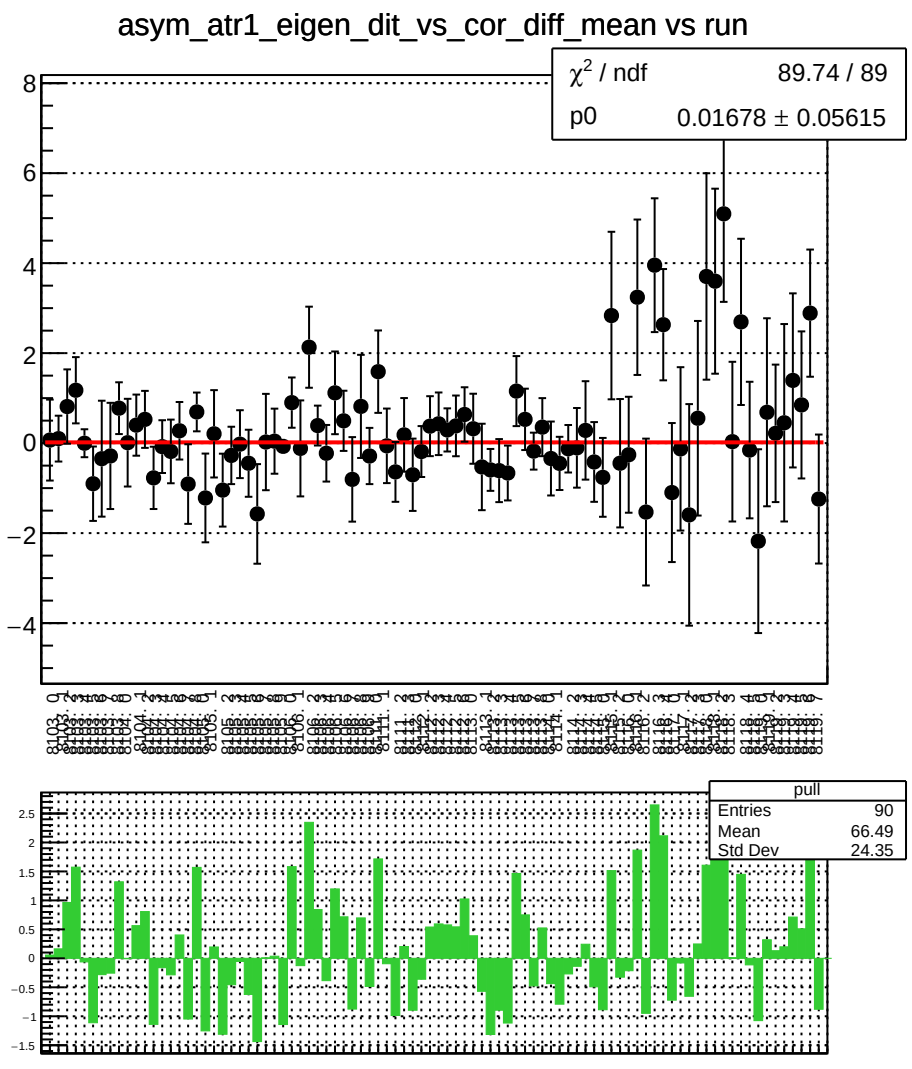

pull1D
Entries 90
Mean 0.1788
Std Dev 0.9824

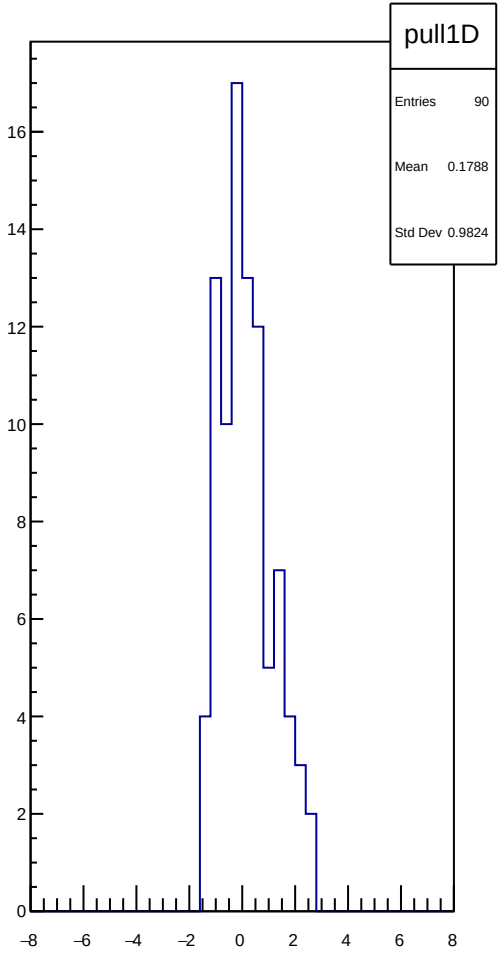

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.504e+05 / 89
p0 37.84 ± 0.03971
300
250
200
150
100
50

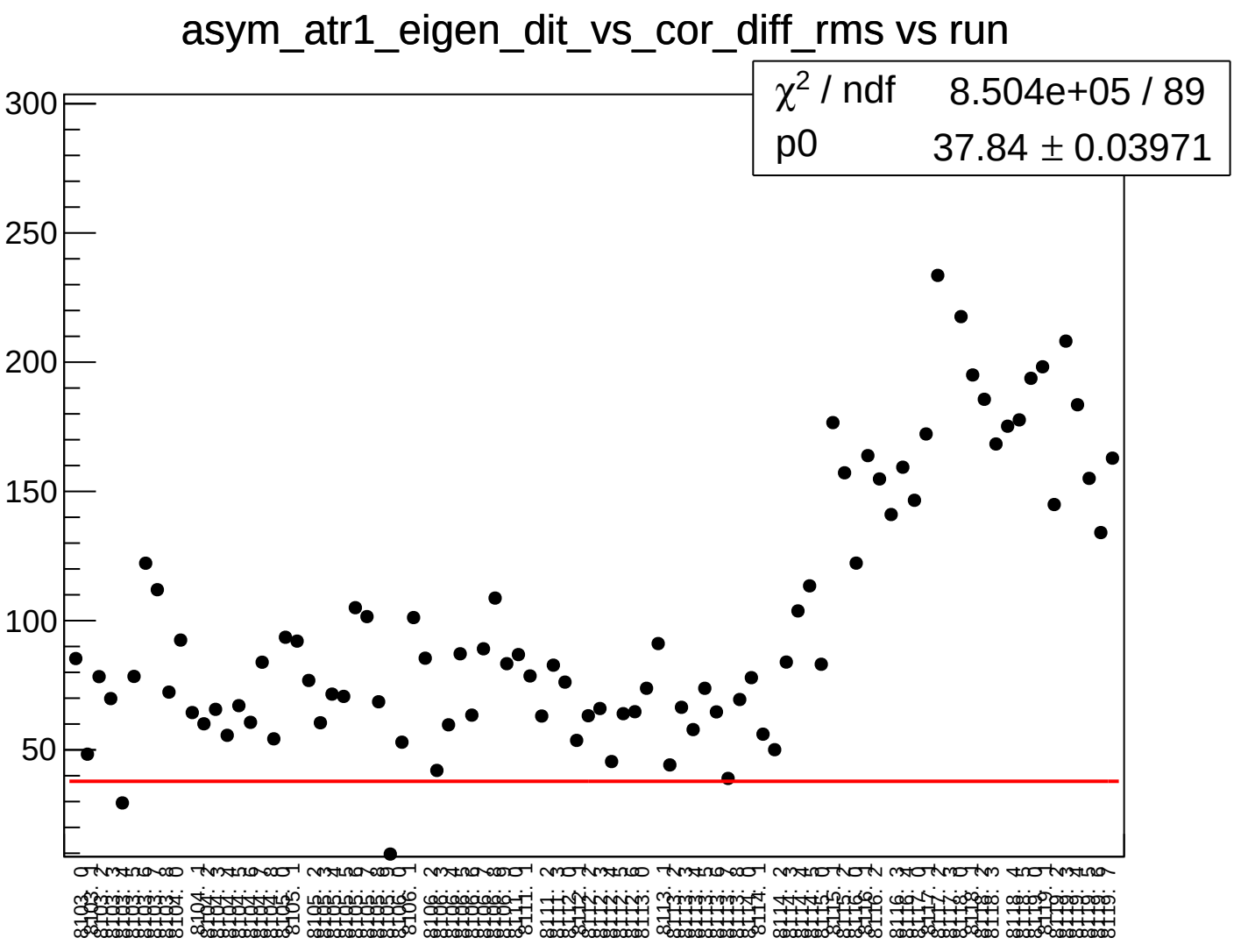

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.74 / 89
p0 −8.687e−07 ± 2.506e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean 937
Std Dev 0
3
2
1
0
−1
−2

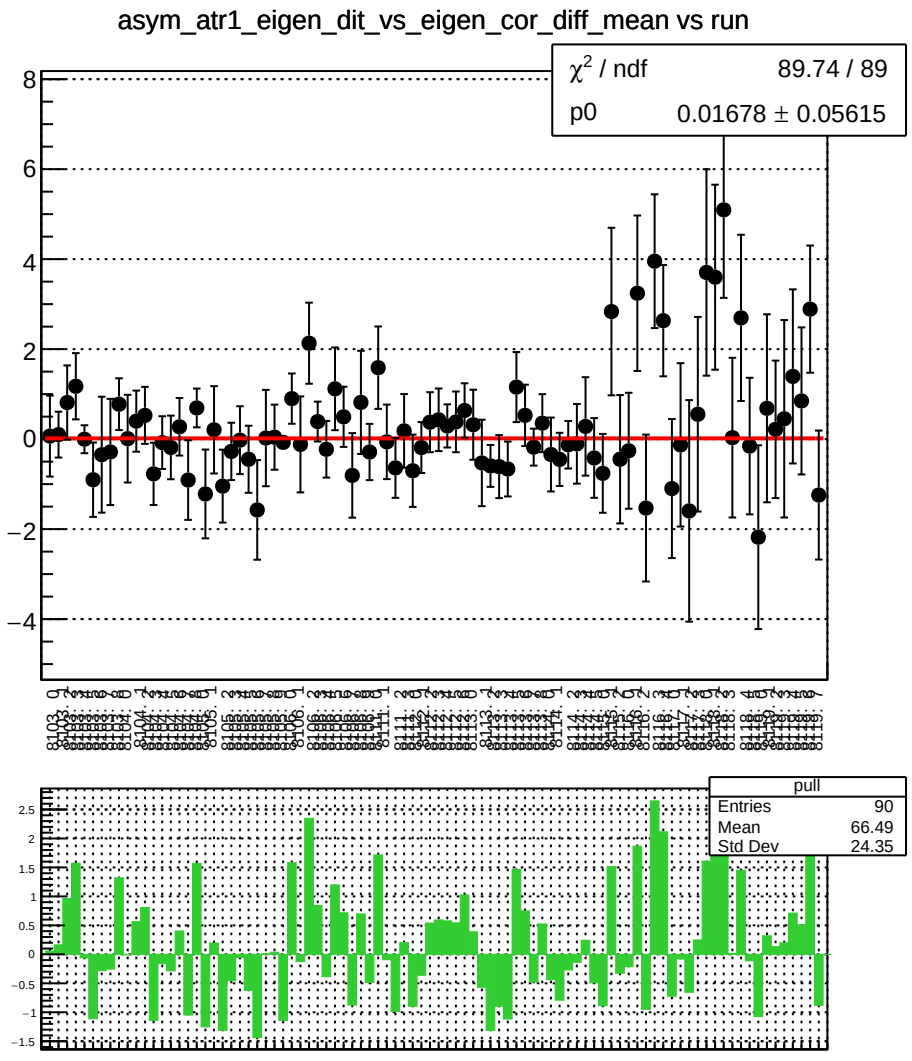

pull1D
Entries 90
Mean −0.008765
Std Dev 0.976
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

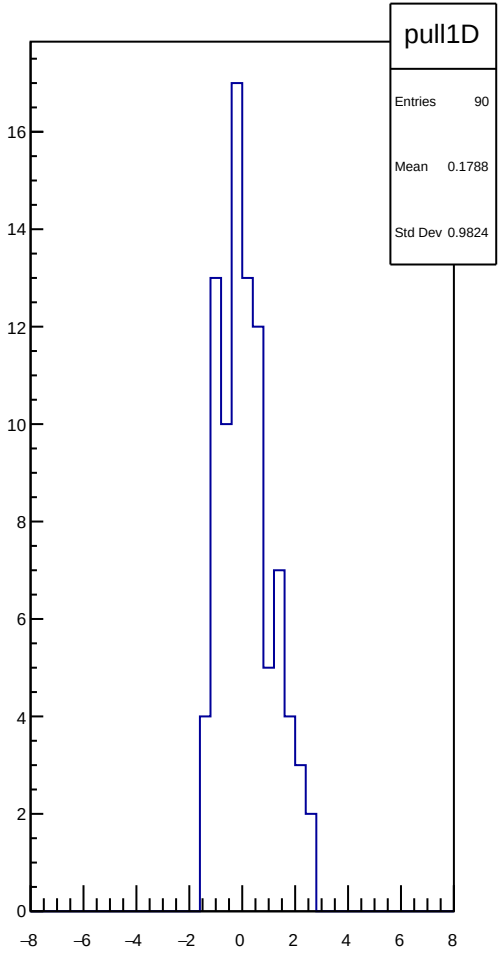

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3177 / 89
p0 0.002348 ± 1.772e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

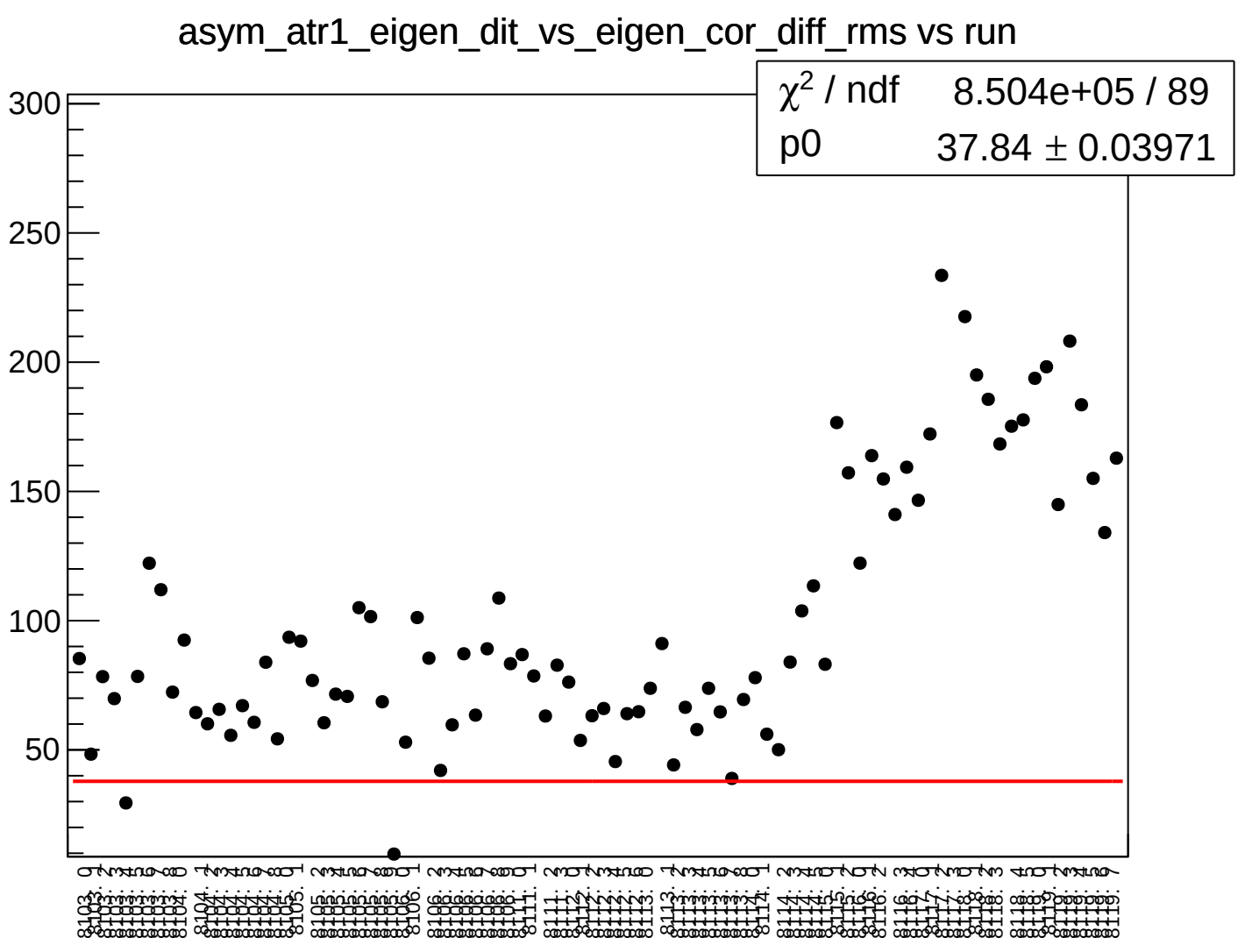

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.74 / 89
p0 0.01678 ± 0.05615
pull
Entries 90
Mean 66.49
Std Dev 24.35

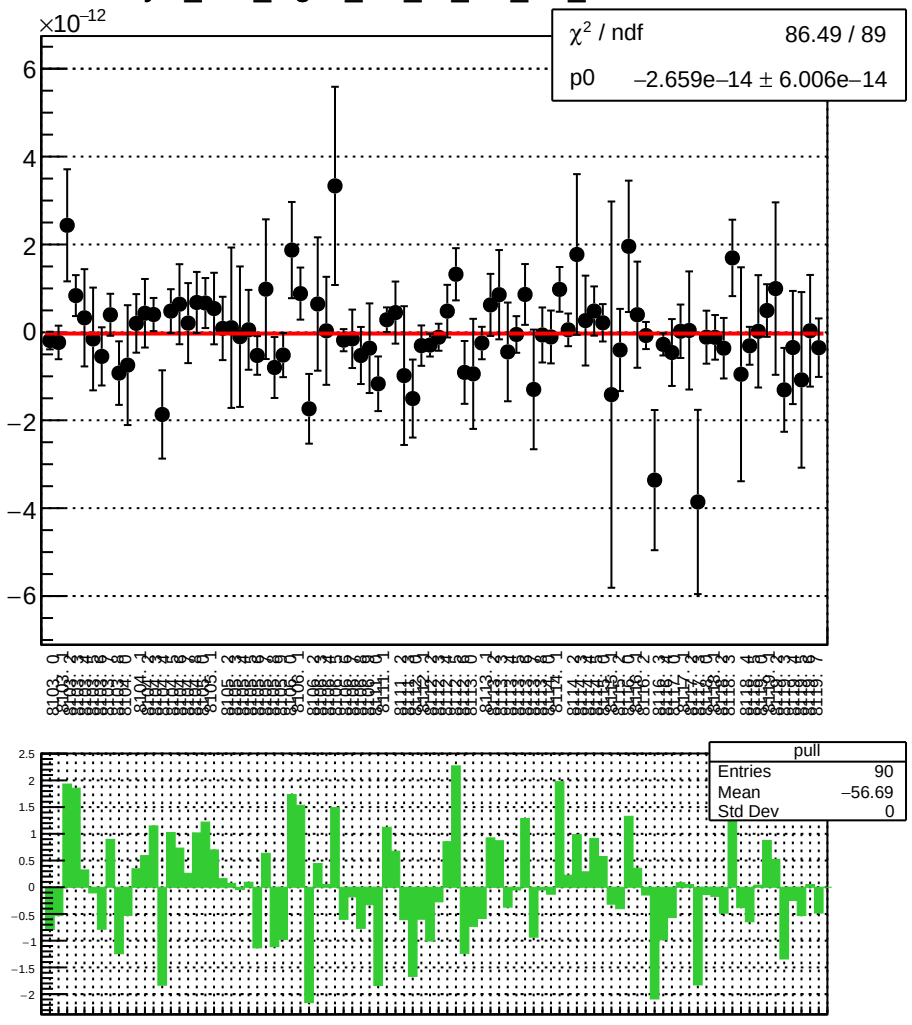

pull1D
Entries 90
Mean 0.1788
Std Dev 0.9824

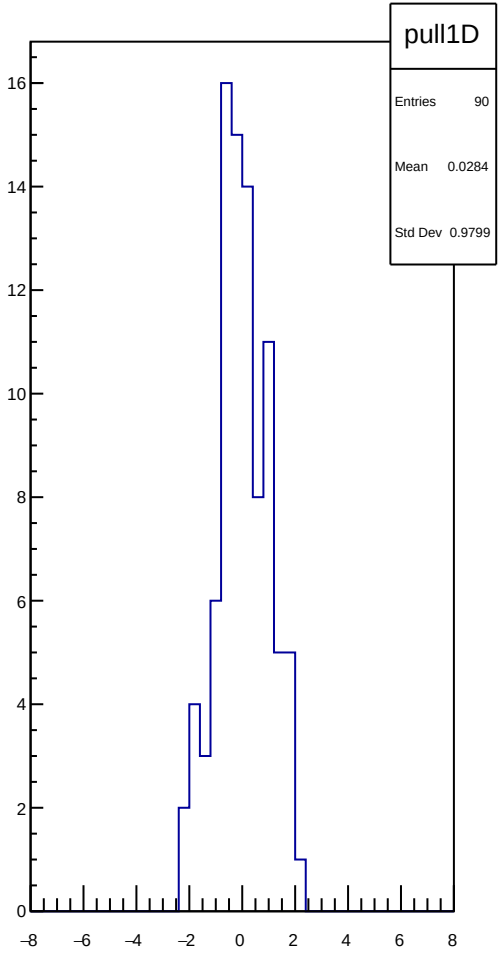

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.504e+05 / 89
p0 37.84 ± 0.03971
300
250
200
150
100
50

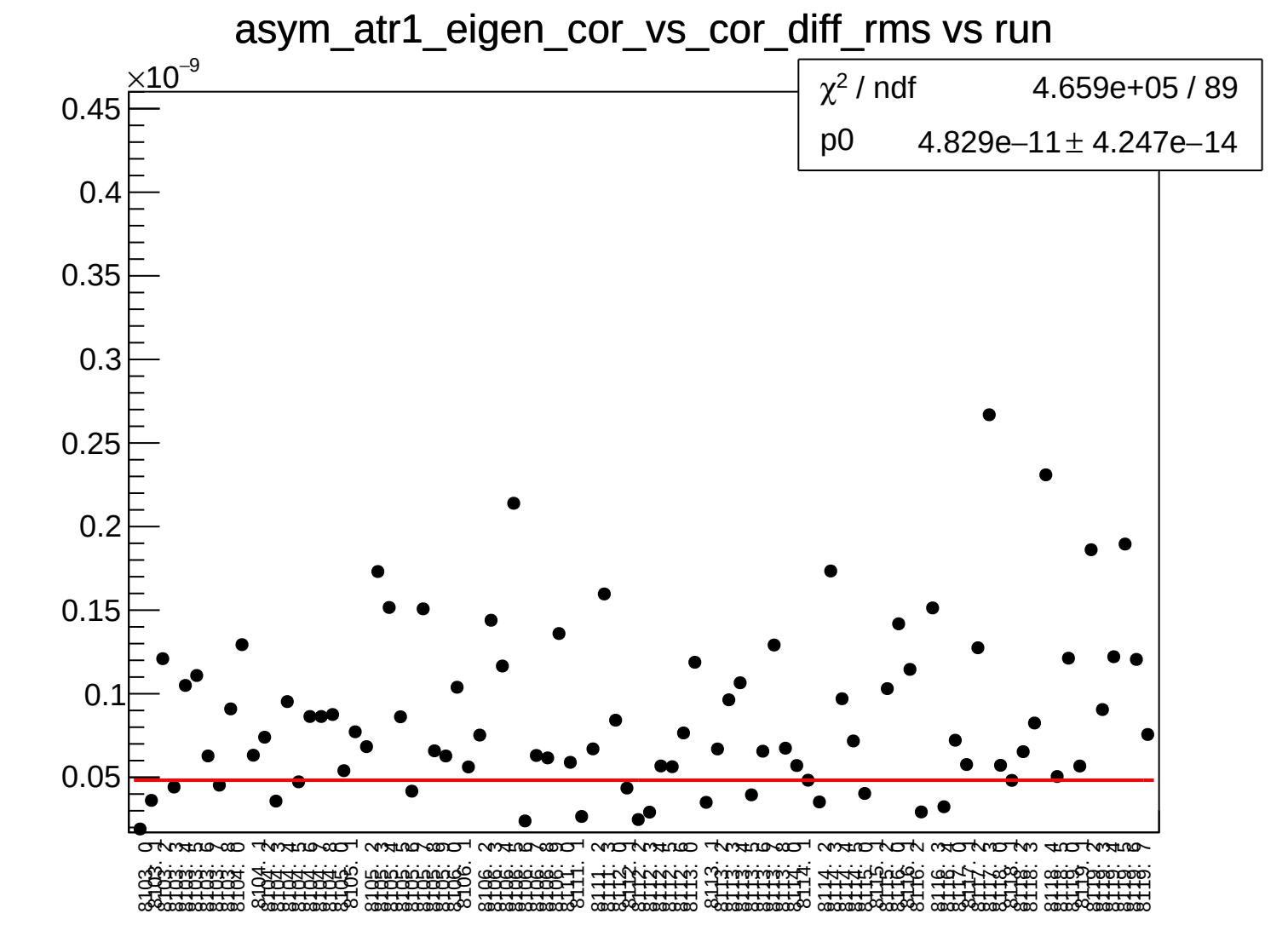

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.74 / 89
p0 0.01678 ± 0.05615
pull
Entries 90
Mean 66.49
Std Dev 24.35

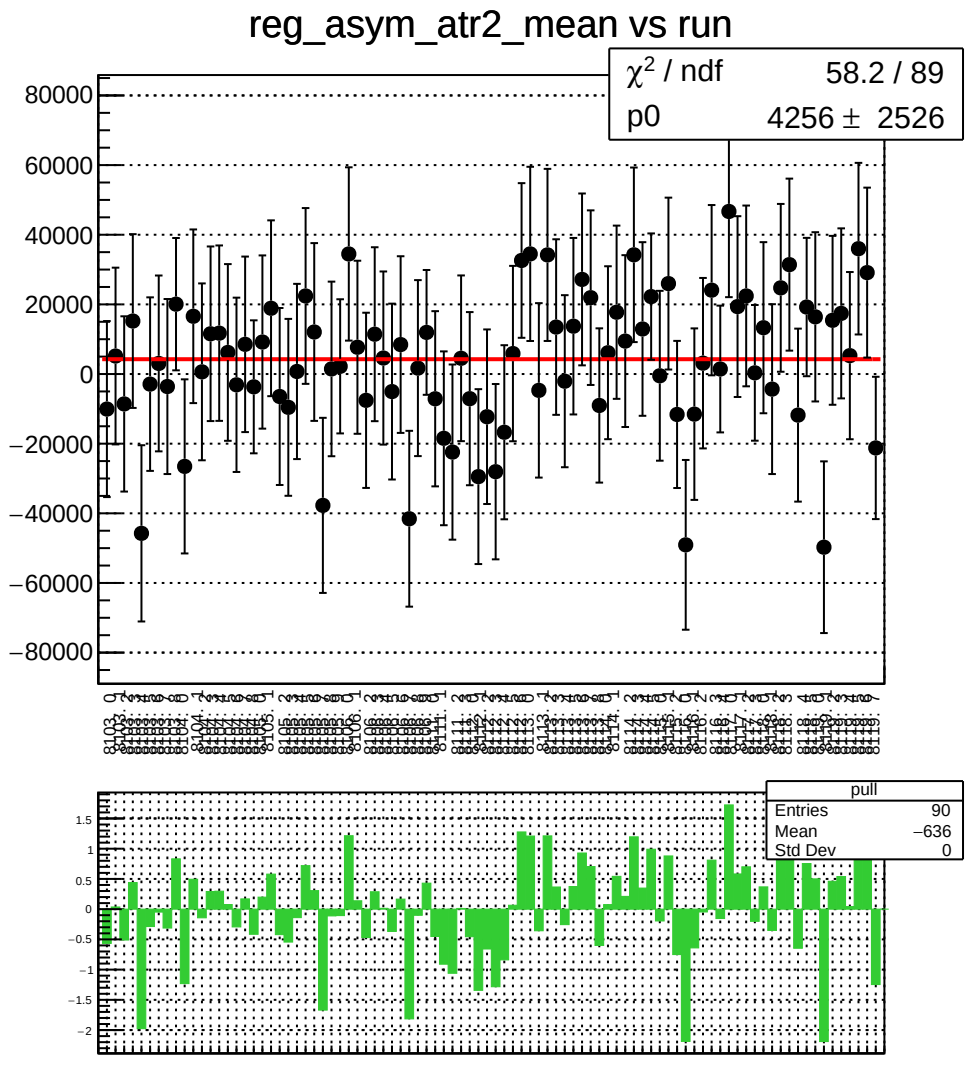

pull1D
Entries 90
Mean 0.1788
Std Dev 0.9824

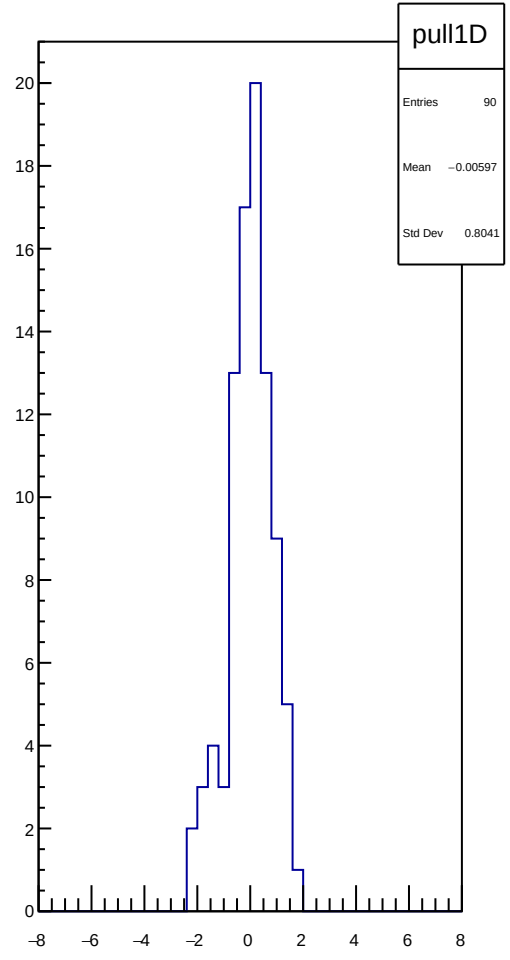

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.504e+05 / 89
p0 37.84 ± 0.03971
300
250
200
150
100
50

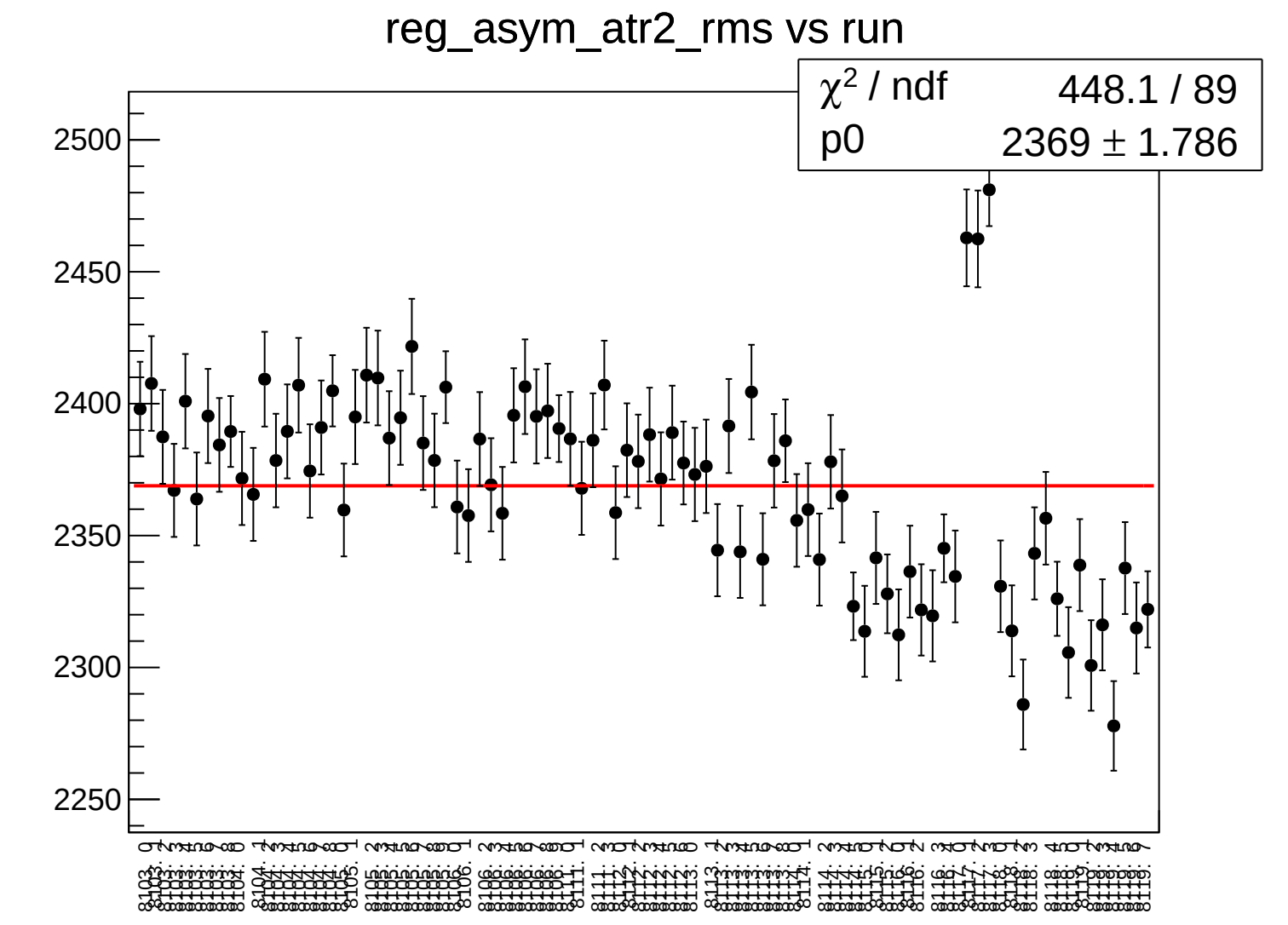

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.49 / 89
p0 −2.659e−14 ± 6.006e−14
pull
Entries 90
Mean −56.69
Std Dev 0

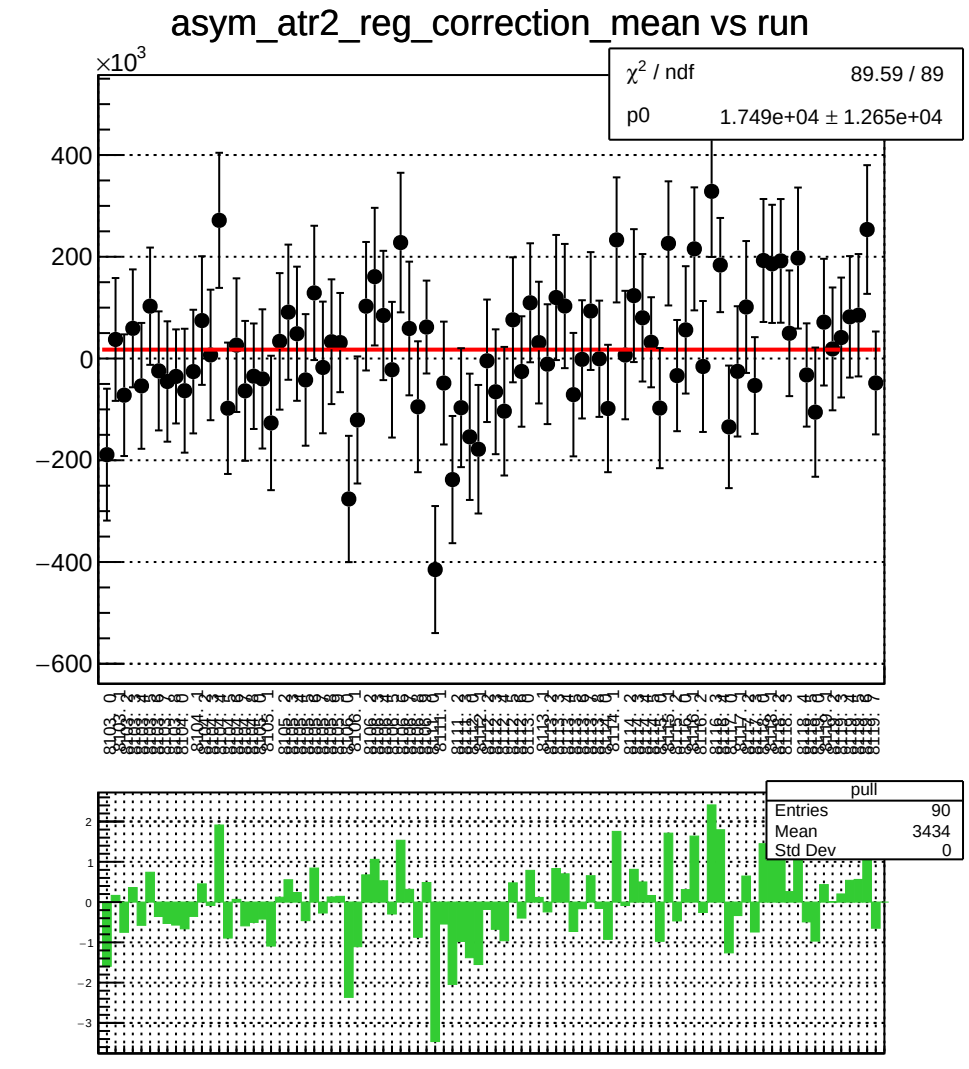

pull1D
Entries 90
Mean 0.0284
Std Dev 0.9799

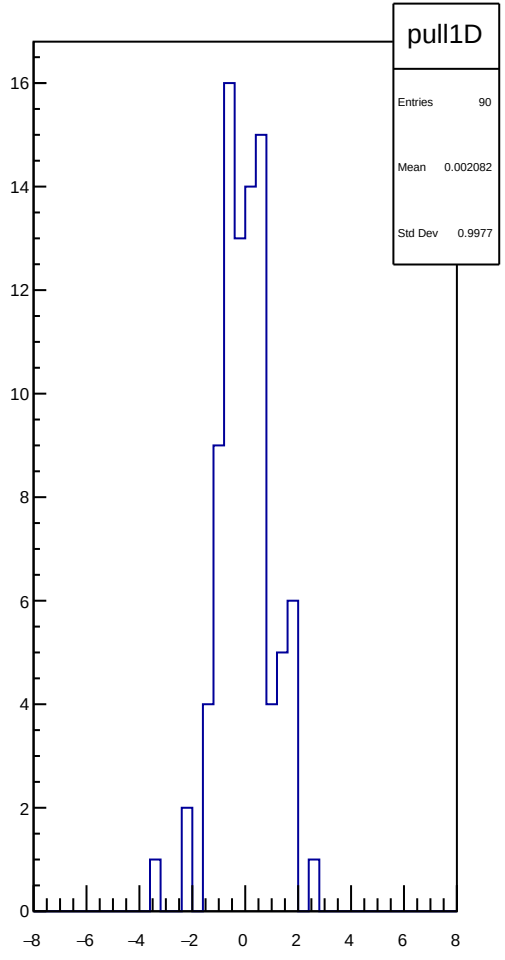

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.659e+05 / 89
p0 4.829e−11 ± 4.247e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

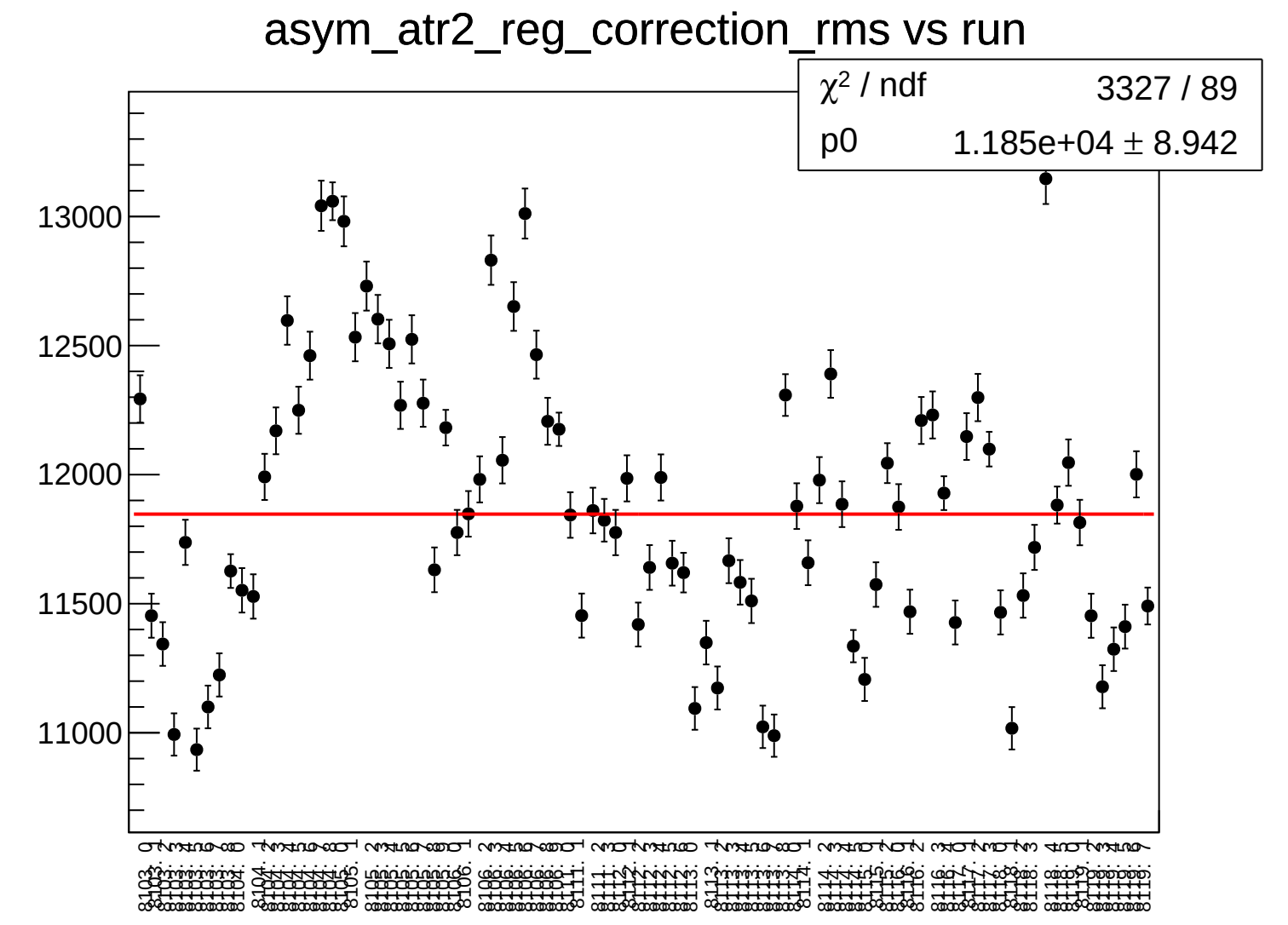

reg_asym_atr2_mean vs run
χ² / ndf 58.2 / 89
p0 4256 ± 2526
pull
Entries 90
Mean −636
Std Dev 0

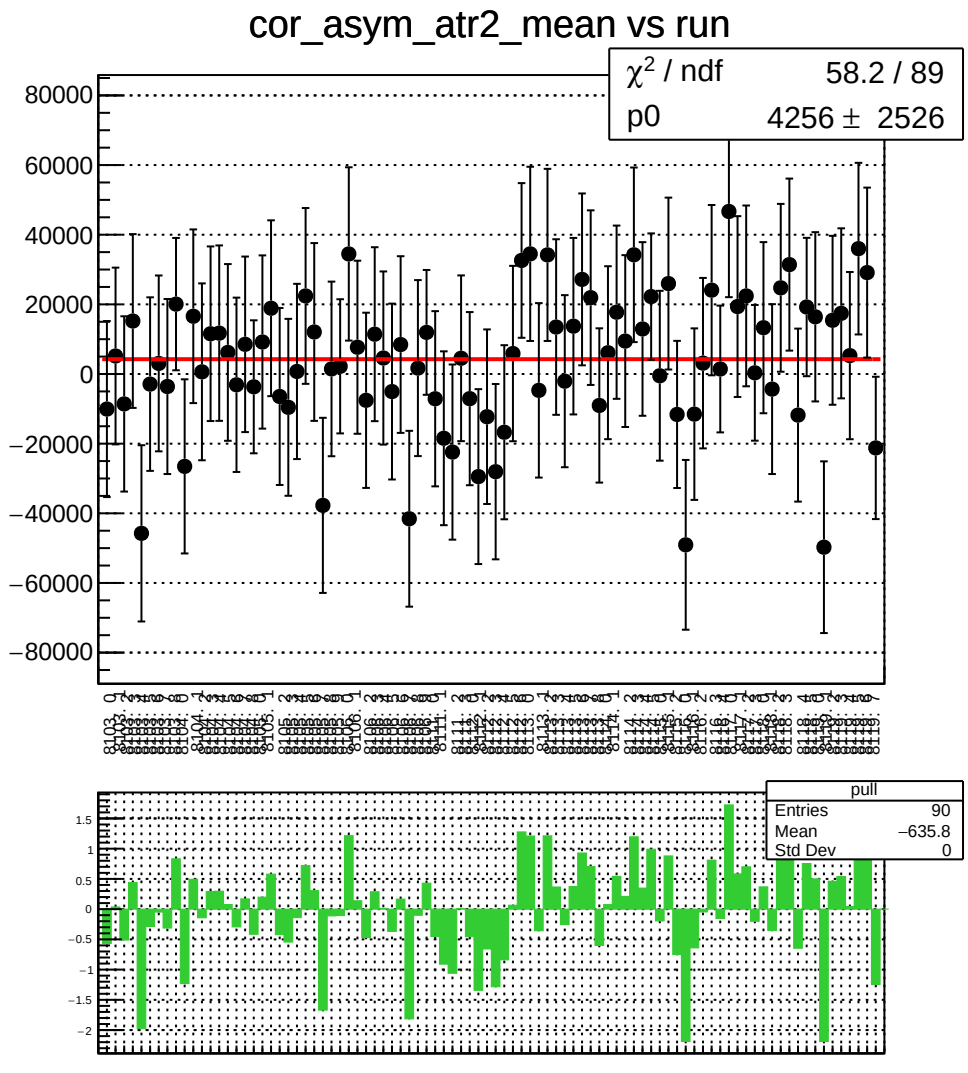

pull1D
Entries 90
Mean −0.00597
Std Dev 0.8041

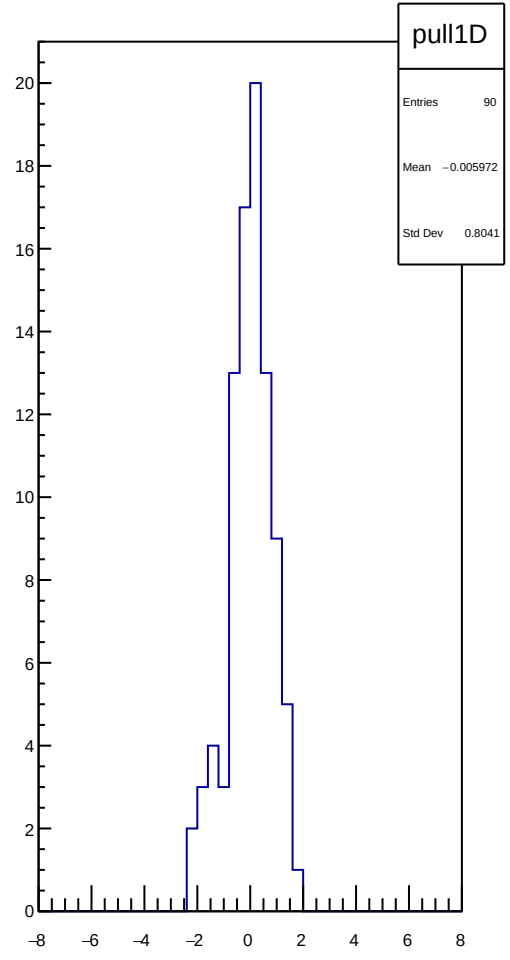

reg_asym_atr2_rms vs run
χ^2 / ndf 448.1 / 89
p0 2369 ± 1.786
2500
2450
2400
2350
2300
2250

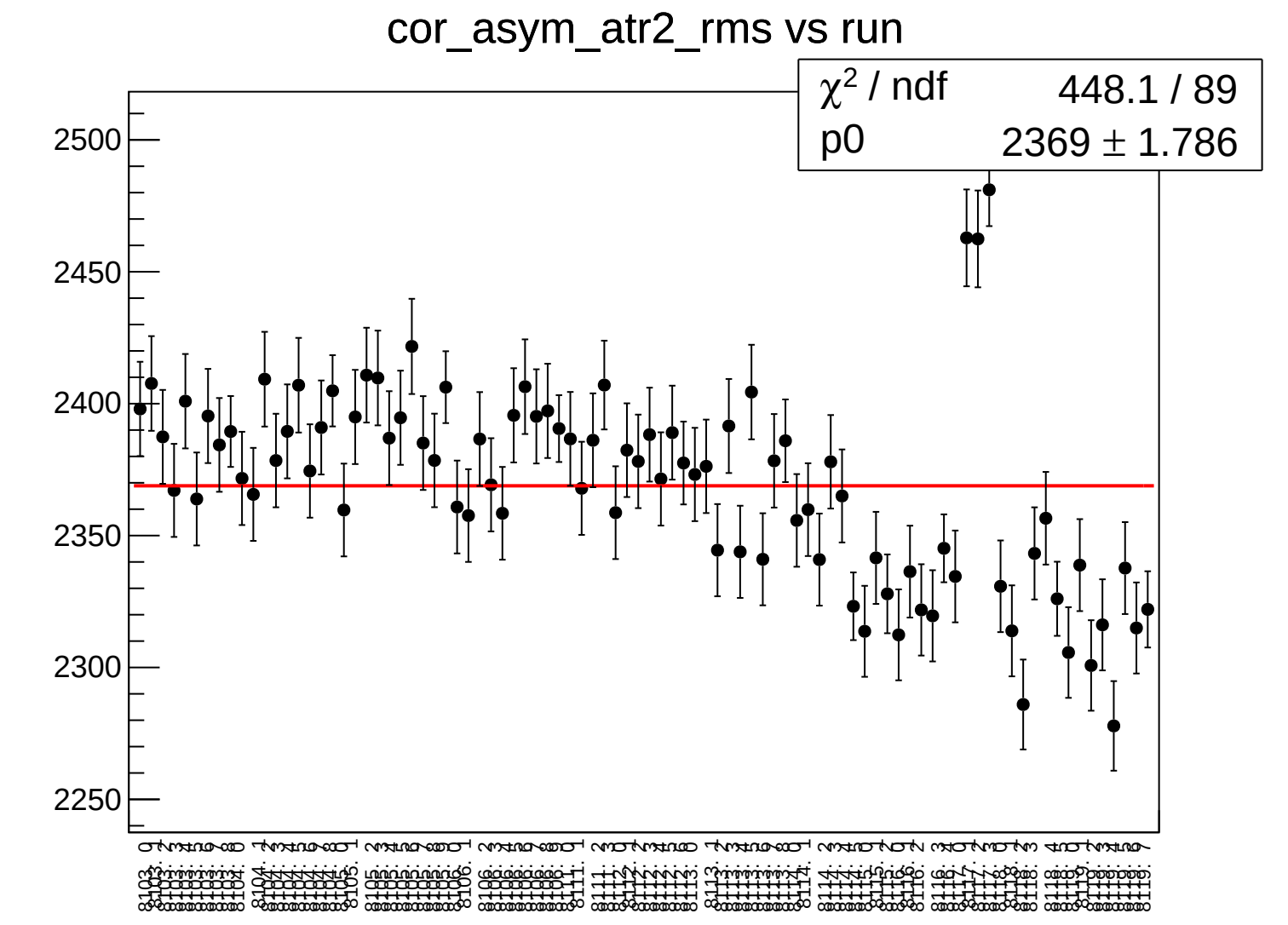

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 89.59 / 89
p0 1.749e+04 ± 1.265e+04
400
200
0
−200
−400
−600
pull
Entries 90
Mean 3434
Std Dev 0
2
1
0
−1
−2
−3

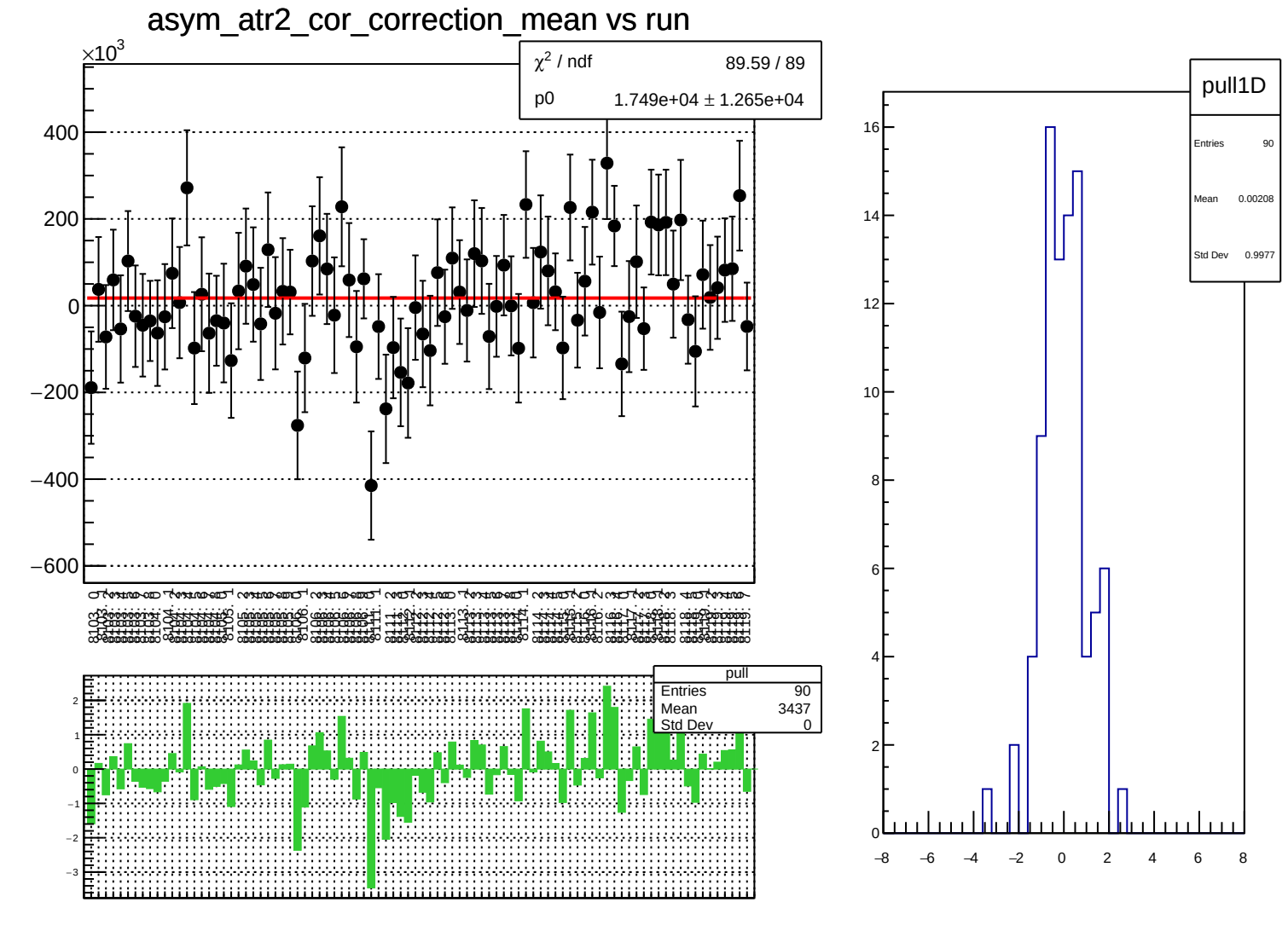

pull1D
Entries 90
Mean 0.002082
Std Dev 0.9977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

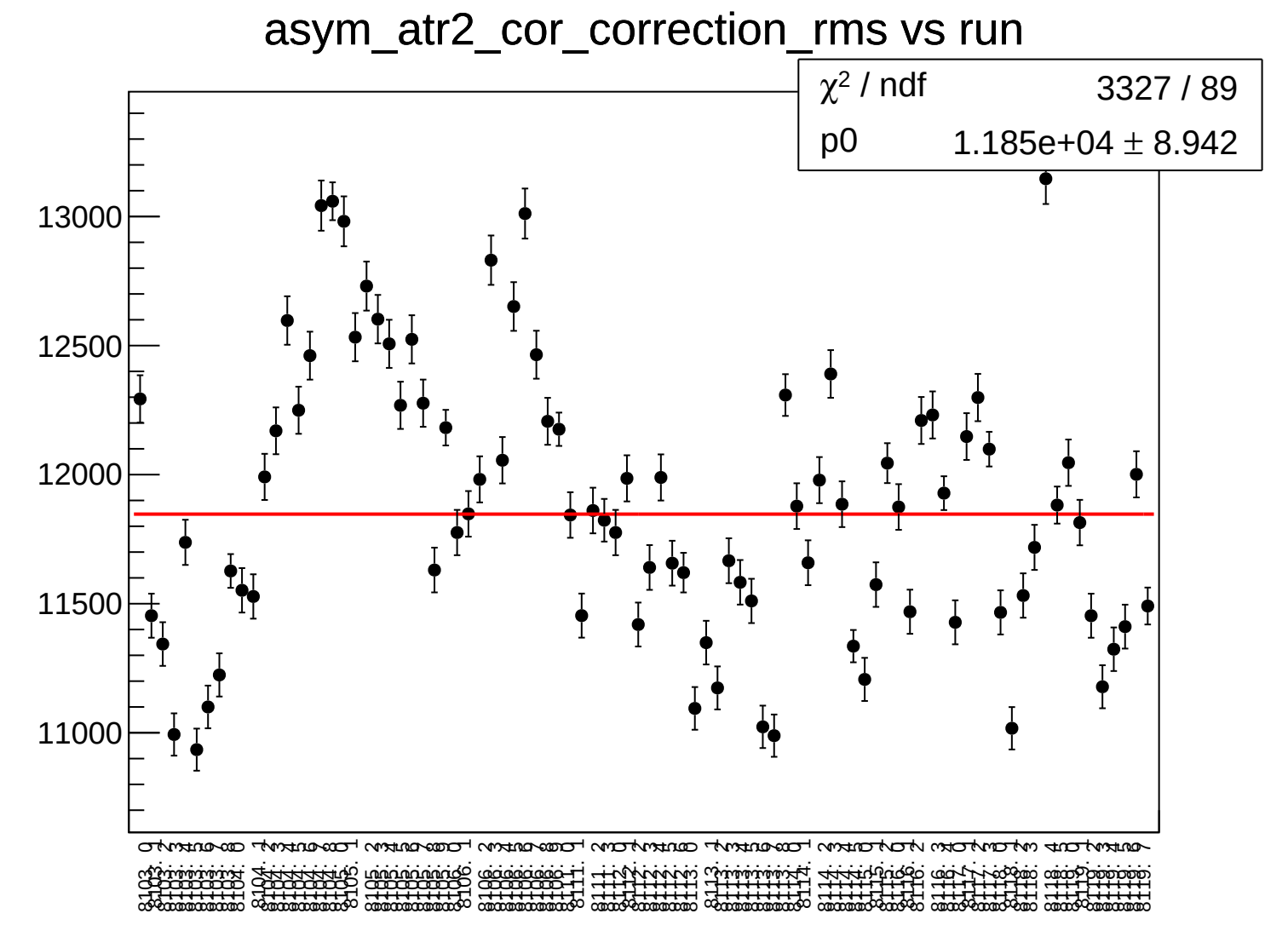

asym_atr2_reg_correction_rms vs run
χ² / ndf 3327 / 89
p0 1.185e+04 ± 8.942
13000
12500
12000
11500
11000

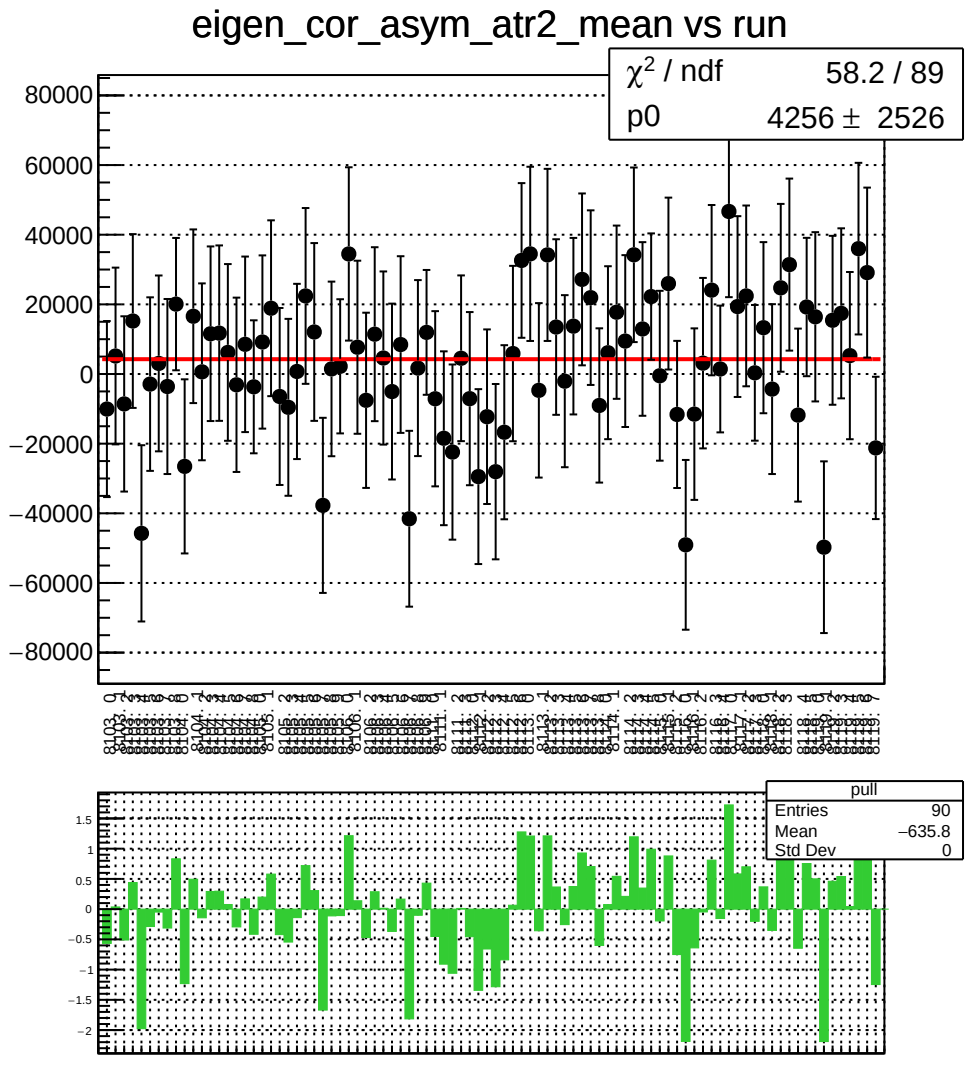

cor_asym_atr2_mean vs run
χ² / ndf 58.2 / 89
p0 4256 ± 2526
pull
Entries 90
Mean −635.8
Std Dev 0

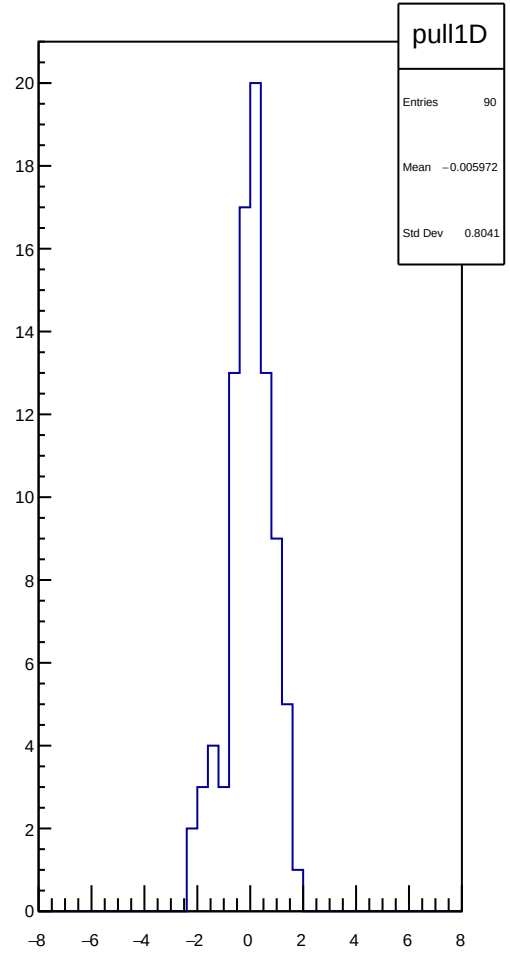

pull1D
Entries 90
Mean −0.005972
Std Dev 0.8041

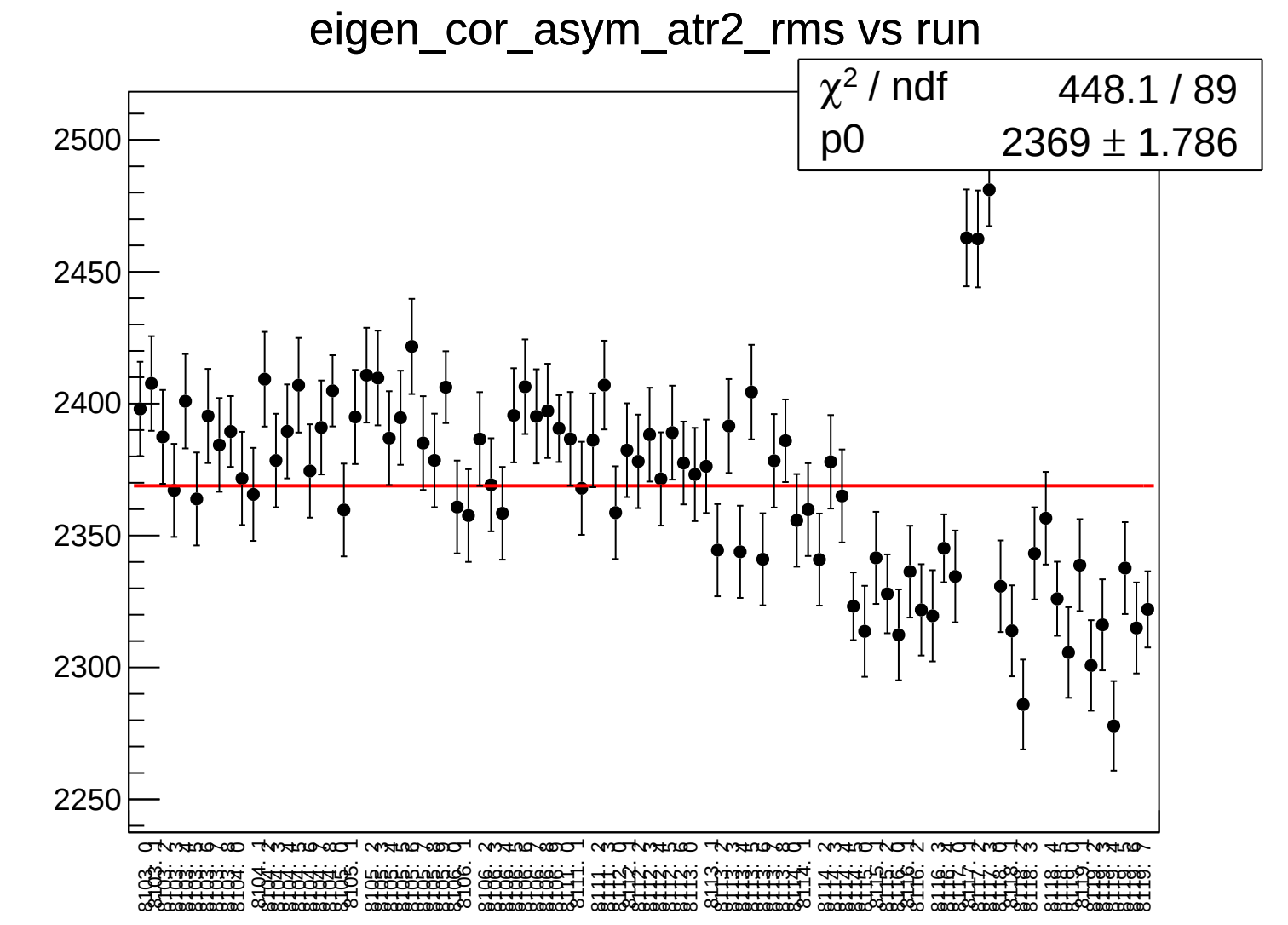

cor_asym_atr2_rms vs run
χ² / ndf 448.1 / 89
p0 2369 ± 1.786
2500
2450
2400
2350
2300
2250

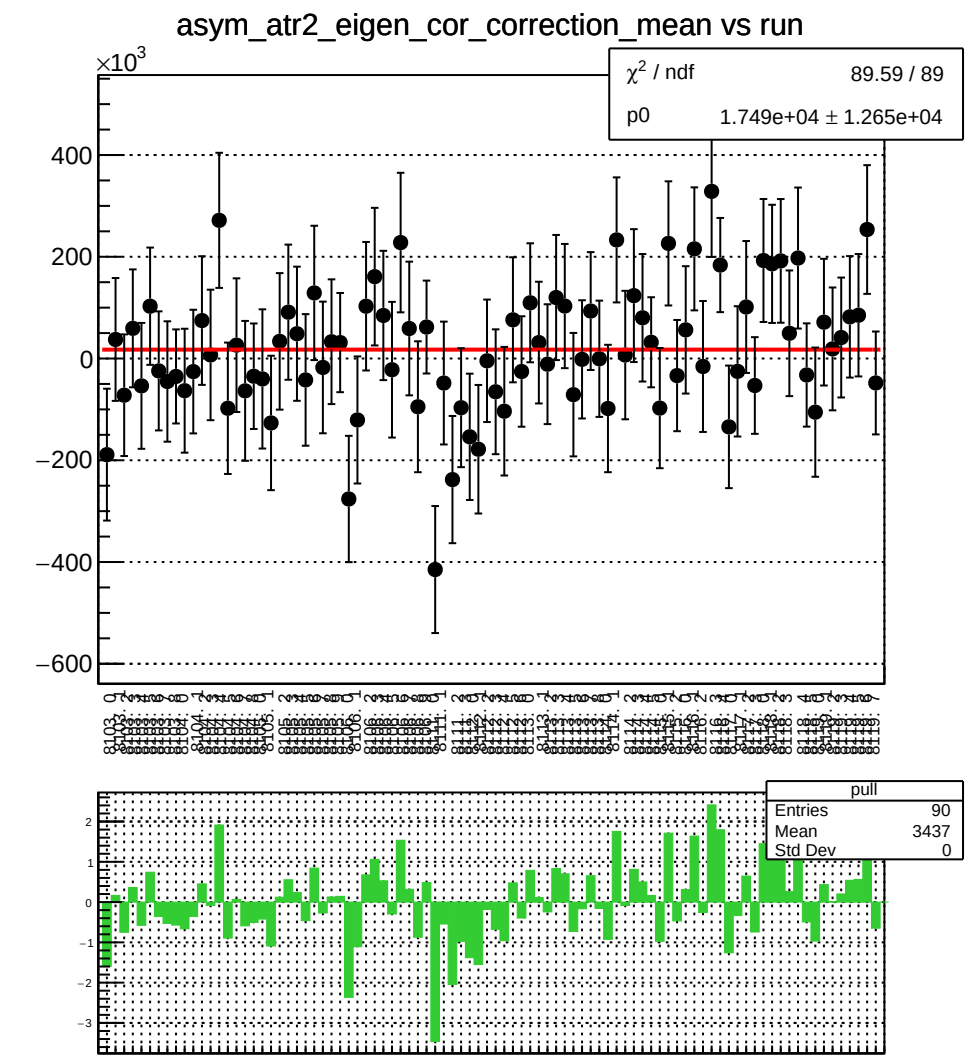

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 89.59 / 89
p0 1.749e+04 ± 1.265e+04
400
200
0
−200
−400
−600
pull
Entries 90
Mean 3437
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.00208
Std Dev 0.9977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

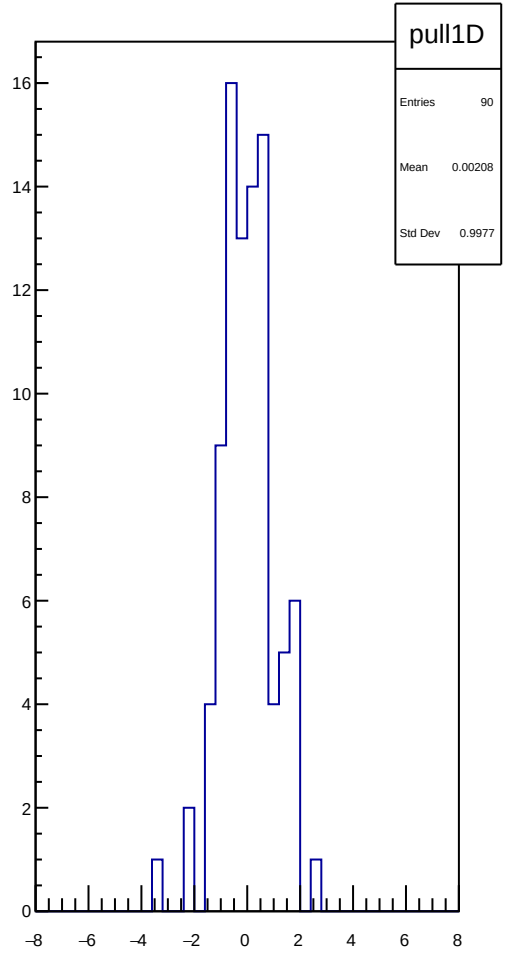

asym_atr2_cor_correction_rms vs run
χ² / ndf 3327 / 89
p0 1.185e+04 ± 8.942
13000
12500
12000
11500
11000

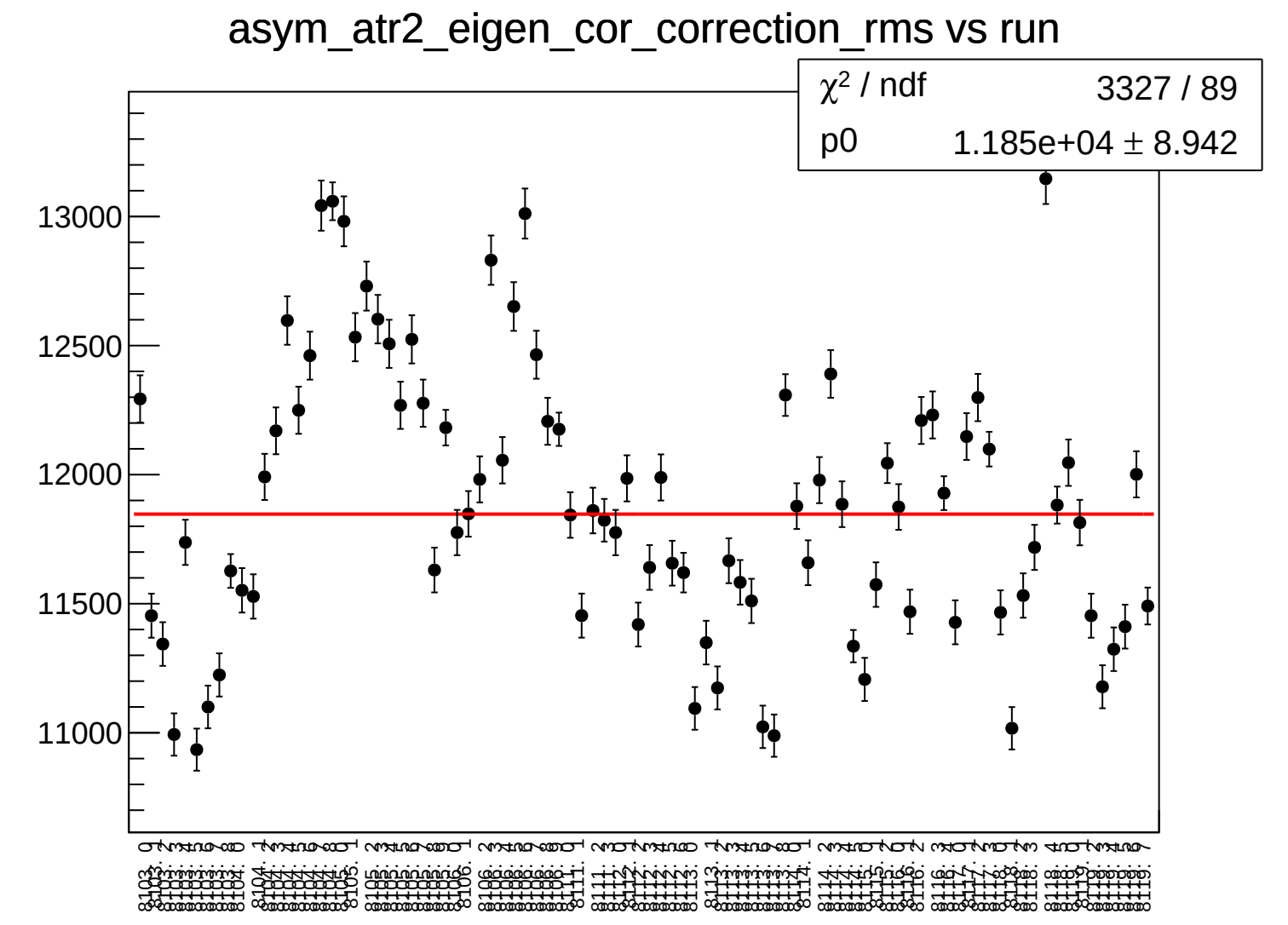

eigen_cor_asym_atr2_mean vs run
χ² / ndf 58.2 / 89
p0 4256 ± 2526
pull
Entries 90
Mean −635.8
Std Dev 0

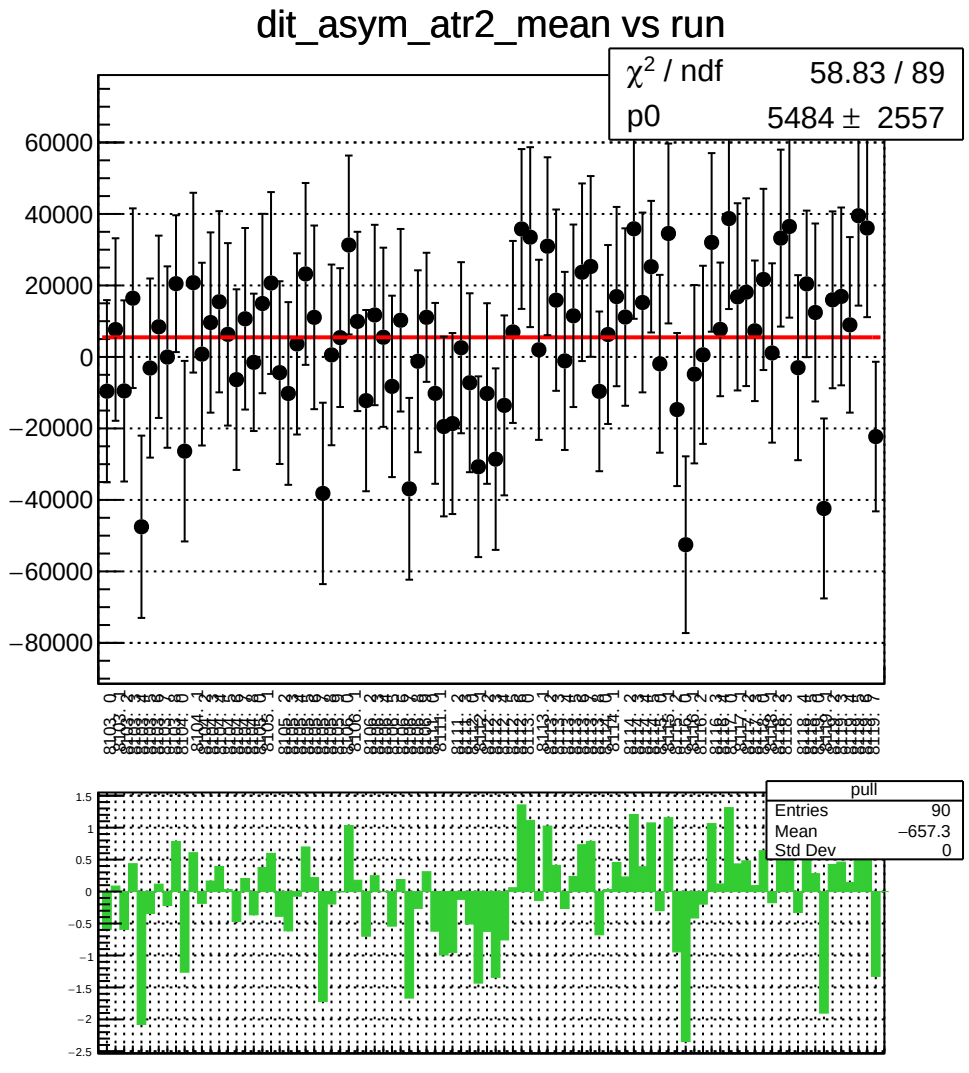

pull1D
Entries 90
Mean −0.005972
Std Dev 0.8041

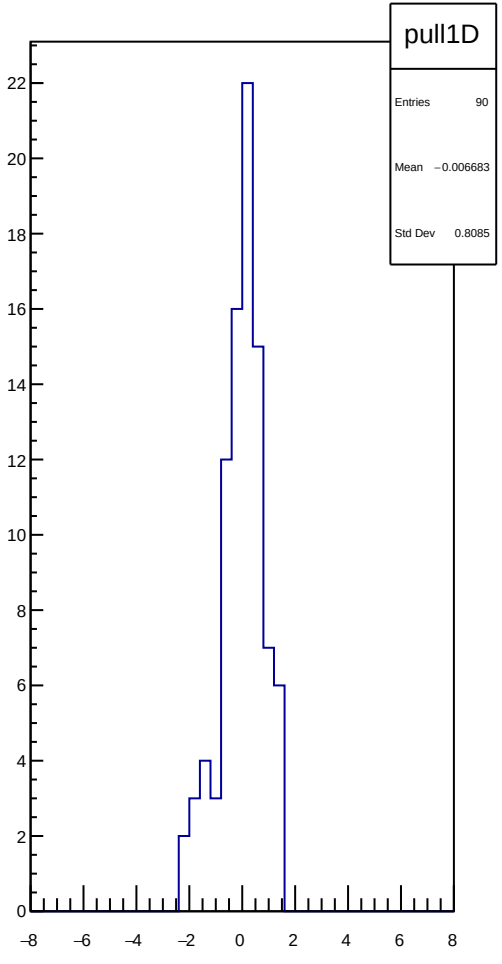

eigen_cor_asym_atr2_rms vs run
χ² / ndf 448.1 / 89
p0 2369 ± 1.786
2500
2450
2400
2350
2300
2250

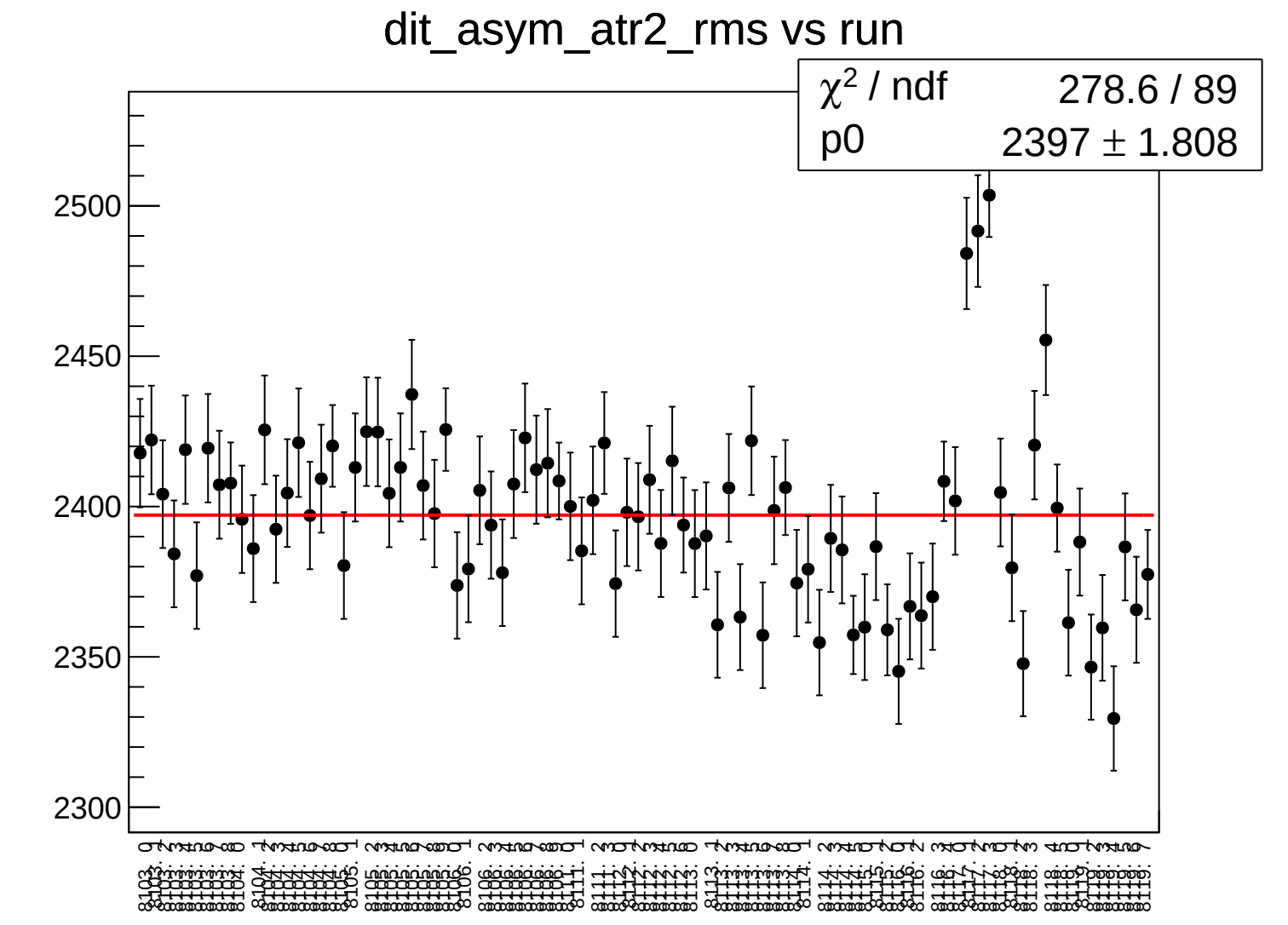

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.59 / 89
p0 1.749e+04 ± 1.265e+04
400
200
0
−200
−400
−600
pull
Entries 90
Mean 3437
Std Dev 0
2
1
0
−1
−2
−3

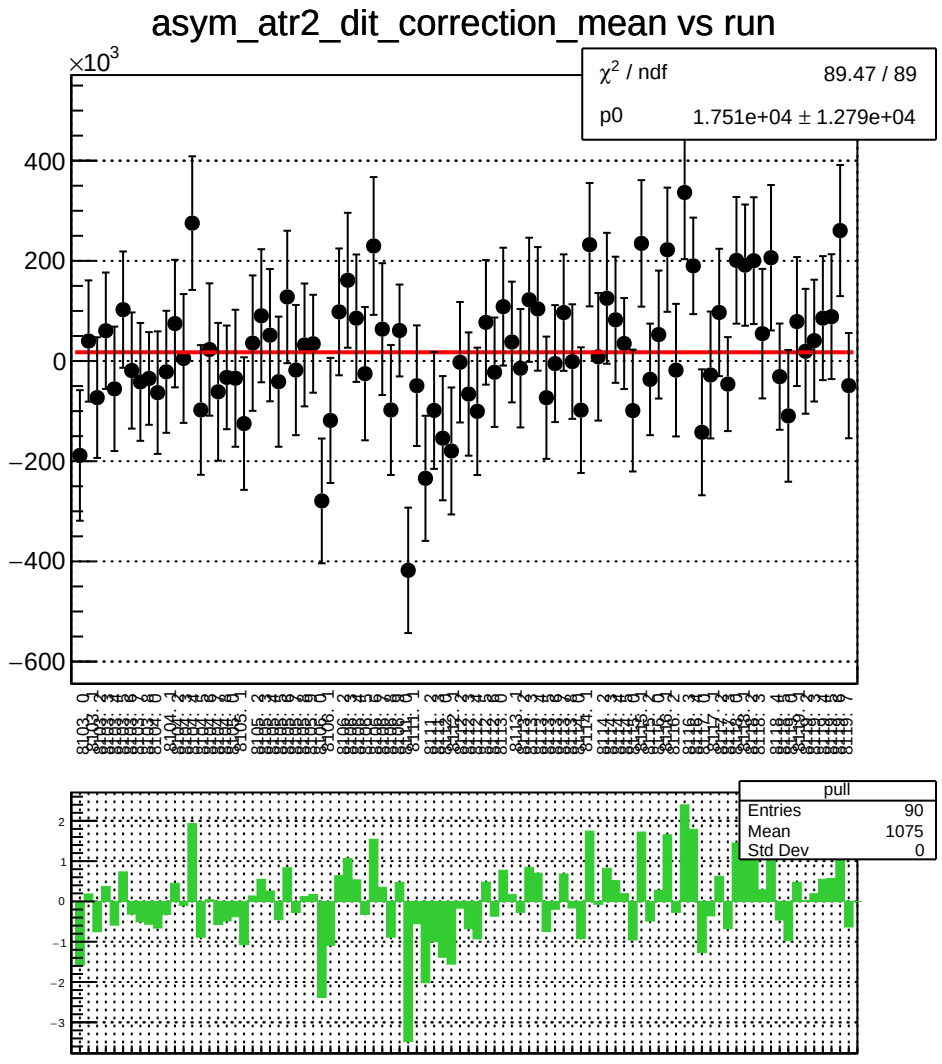

pull1D
Entries 90
Mean 0.00208
Std Dev 0.9977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

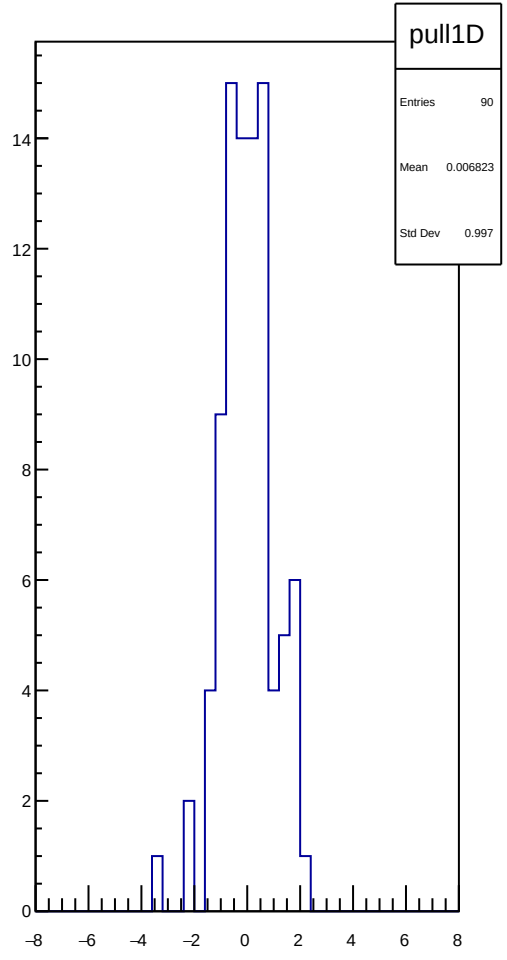

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3327 / 89
p0 1.185e+04 ± 8.942
13000
12500
12000
11500
11000

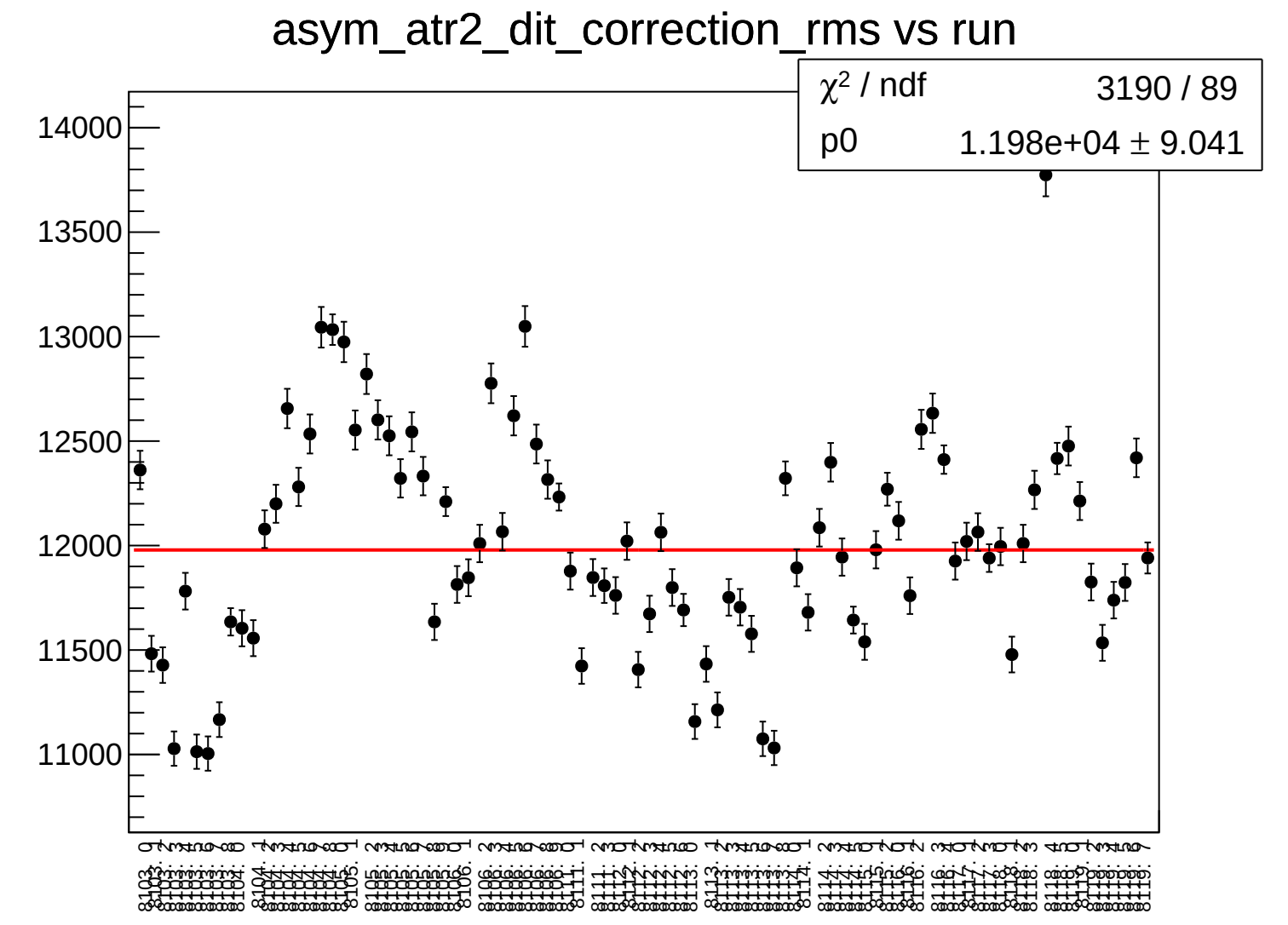

dit_asym_atr2_mean vs run
χ² / ndf 58.83 / 89
p0 5484 ± 2557
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −657.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

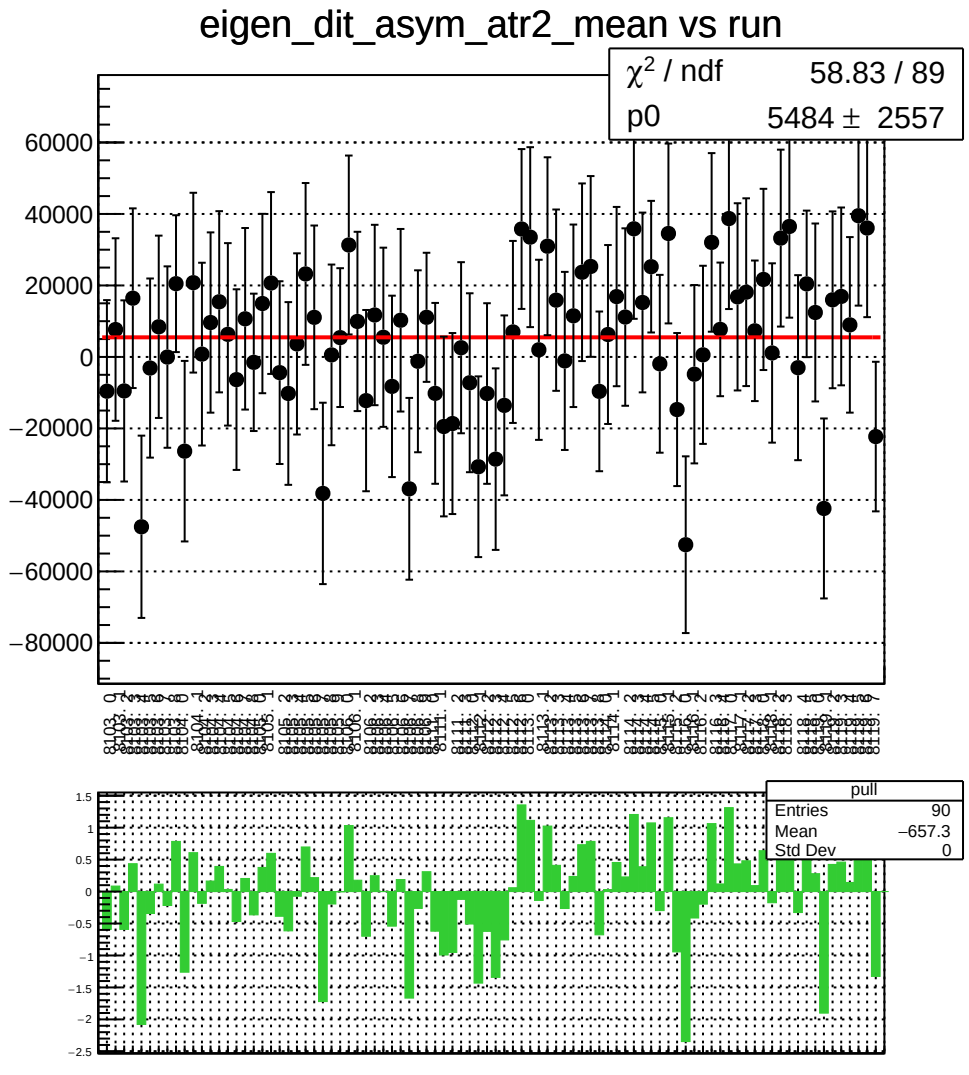

pull1D
Entries 90
Mean −0.006683
Std Dev 0.8085
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

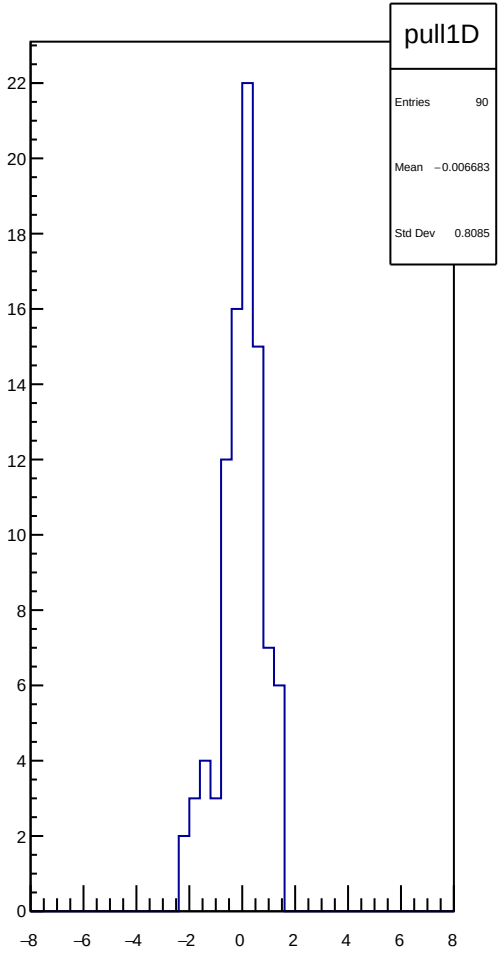

dit_asym_atr2_rms vs run
χ² / ndf 278.6 / 89
p0 2397 ± 1.808
2500
2450
2400
2350
2300

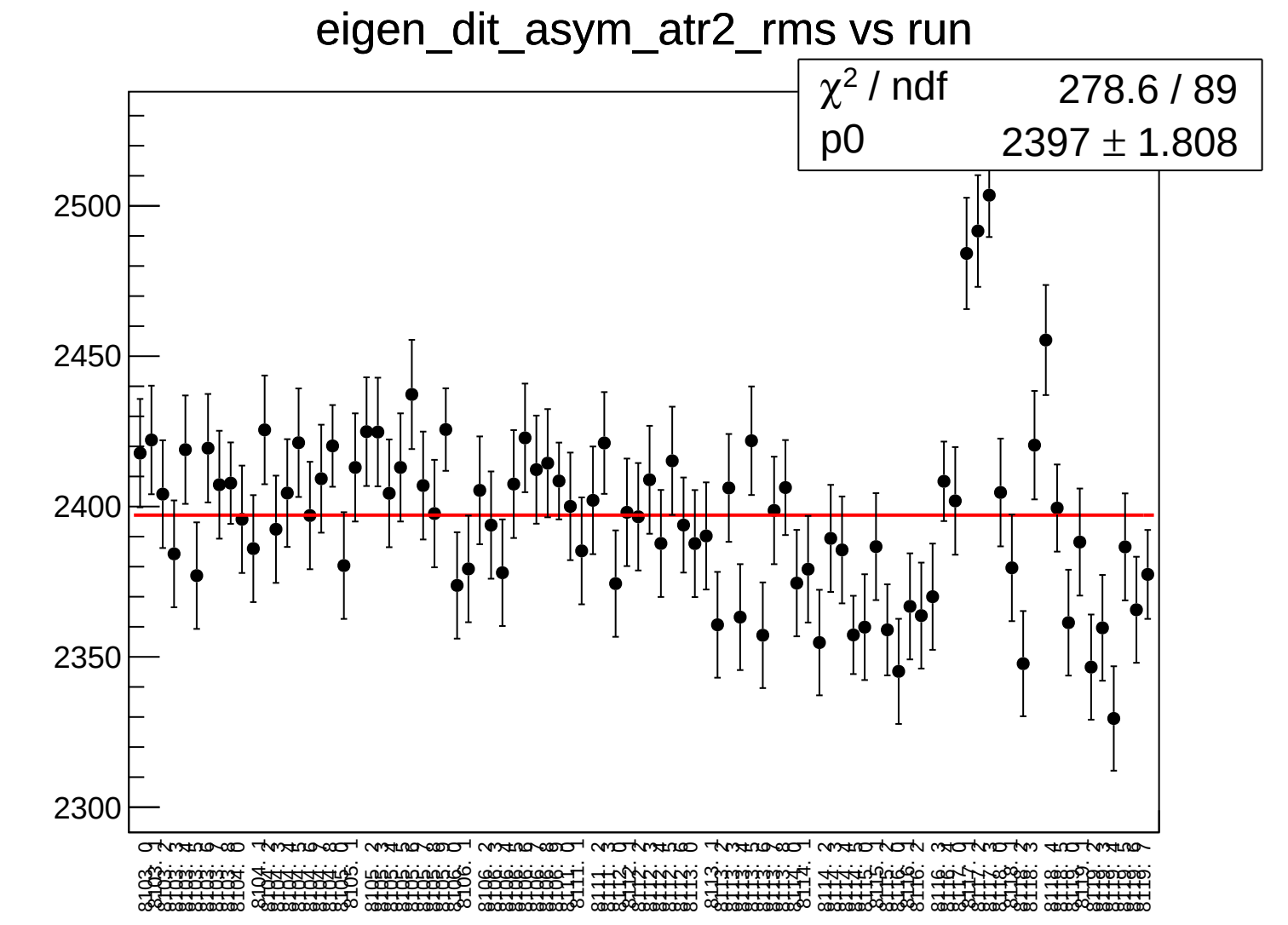

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 89.47 / 89
p0 1.751e+04 ± 1.279e+04
400
200
0
−200
−400
−600
pull
Entries 90
Mean 1075
Std Dev 0
2
1
0
−1
−2
−3

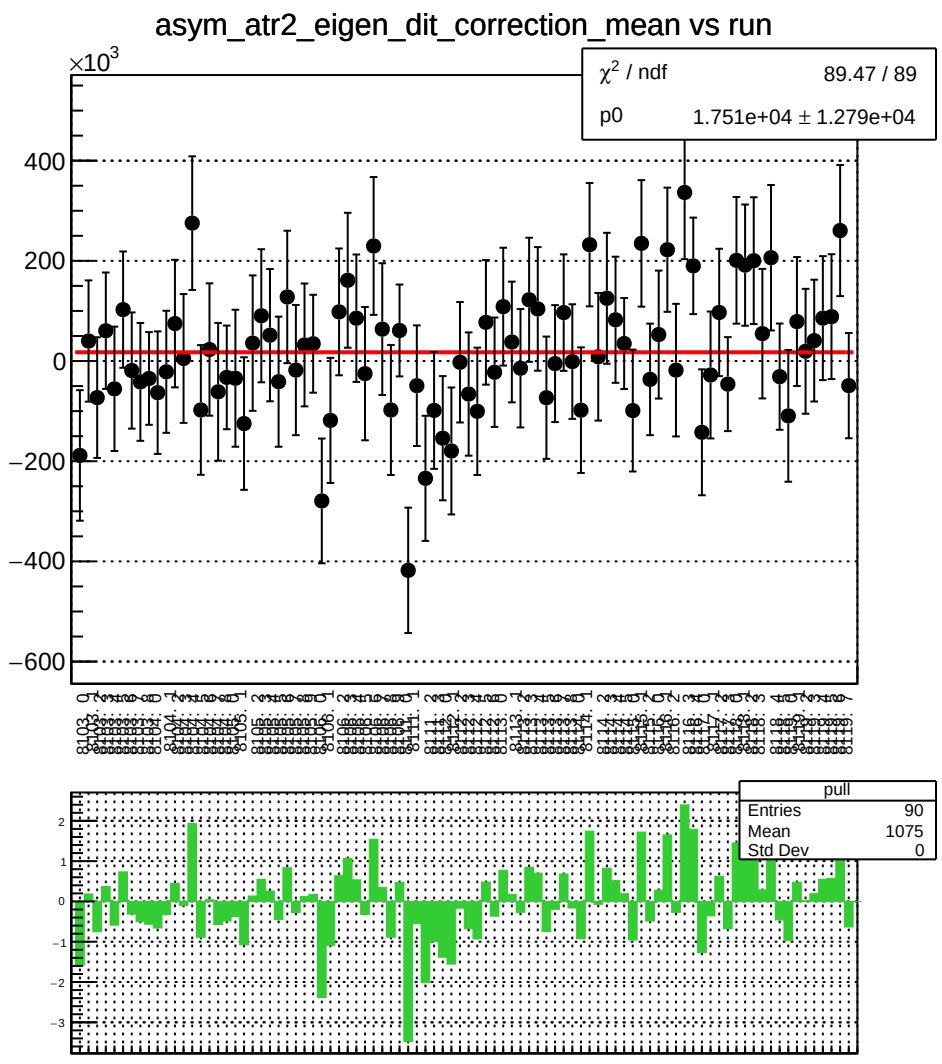

pull1D
Entries 90
Mean 0.006823
Std Dev 0.997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

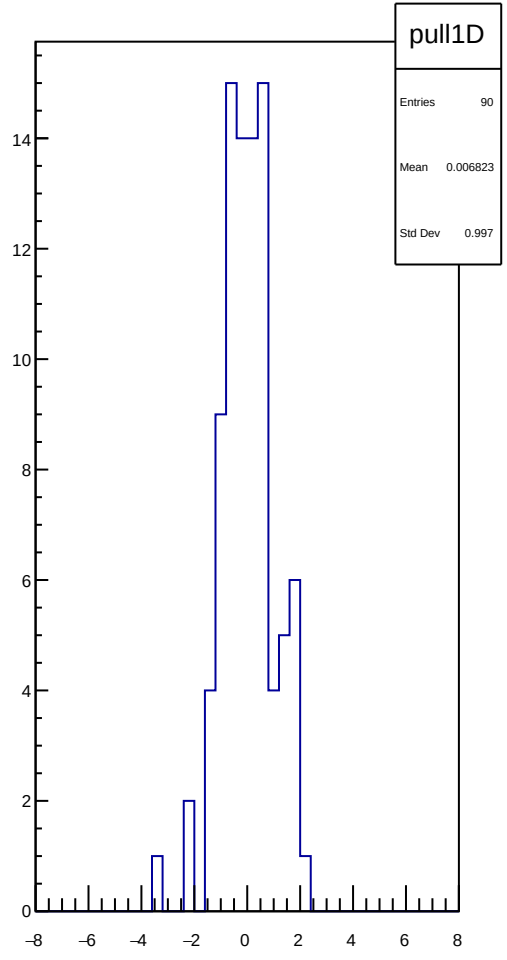

asym_atr2_dit_correction_rms vs run
χ² / ndf 3190 / 89
p0 1.198e+04 ± 9.041
14000
13500
13000
12500
12000
11500
11000


eigen_dit_asym_atr2_mean vs run
χ² / ndf 58.83 / 89
p0 5484 ± 2557
pull
Entries 90
Mean −657.3
Std Dev 0

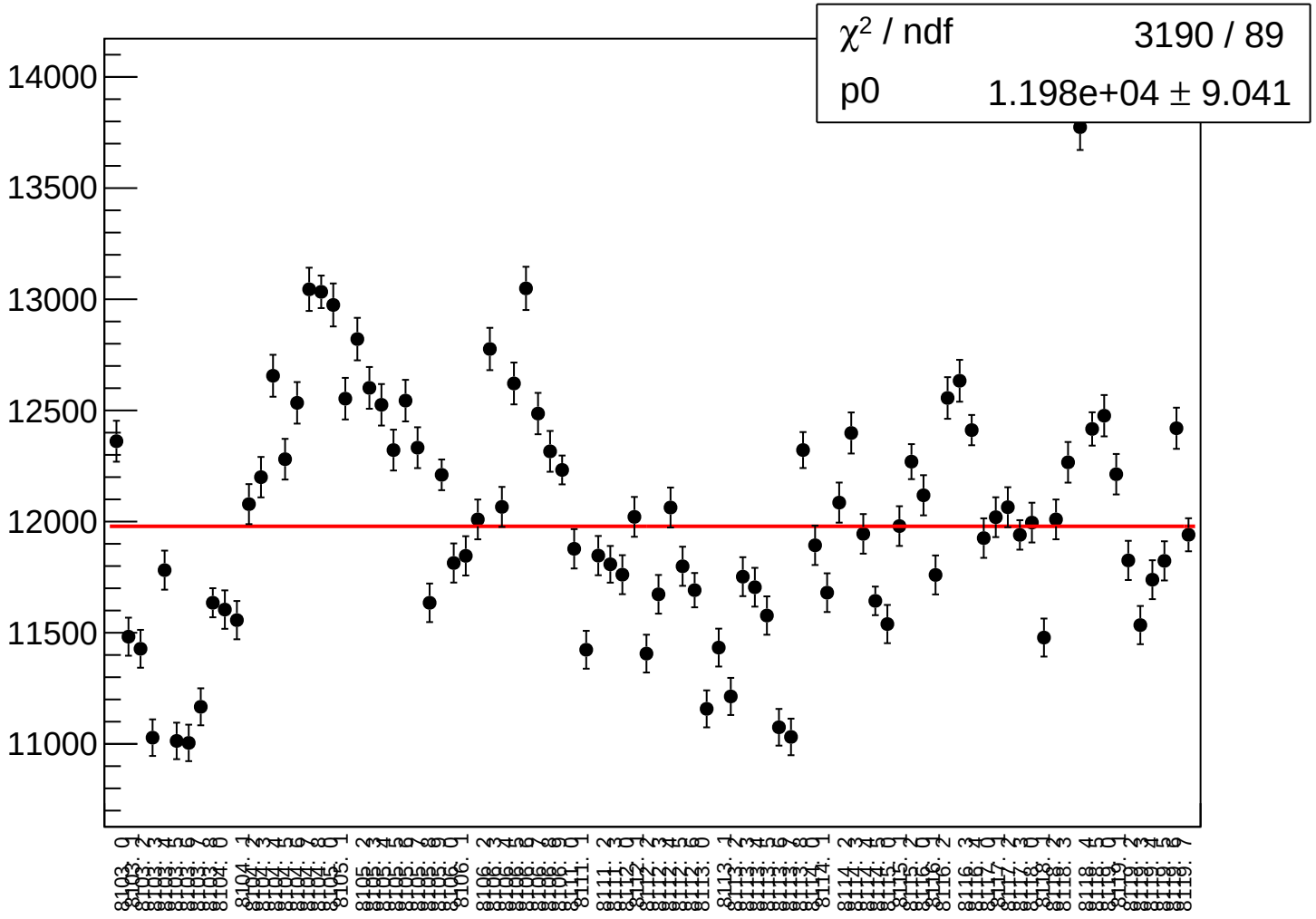

pull1D
Entries 90
Mean −0.006683
Std Dev 0.8085

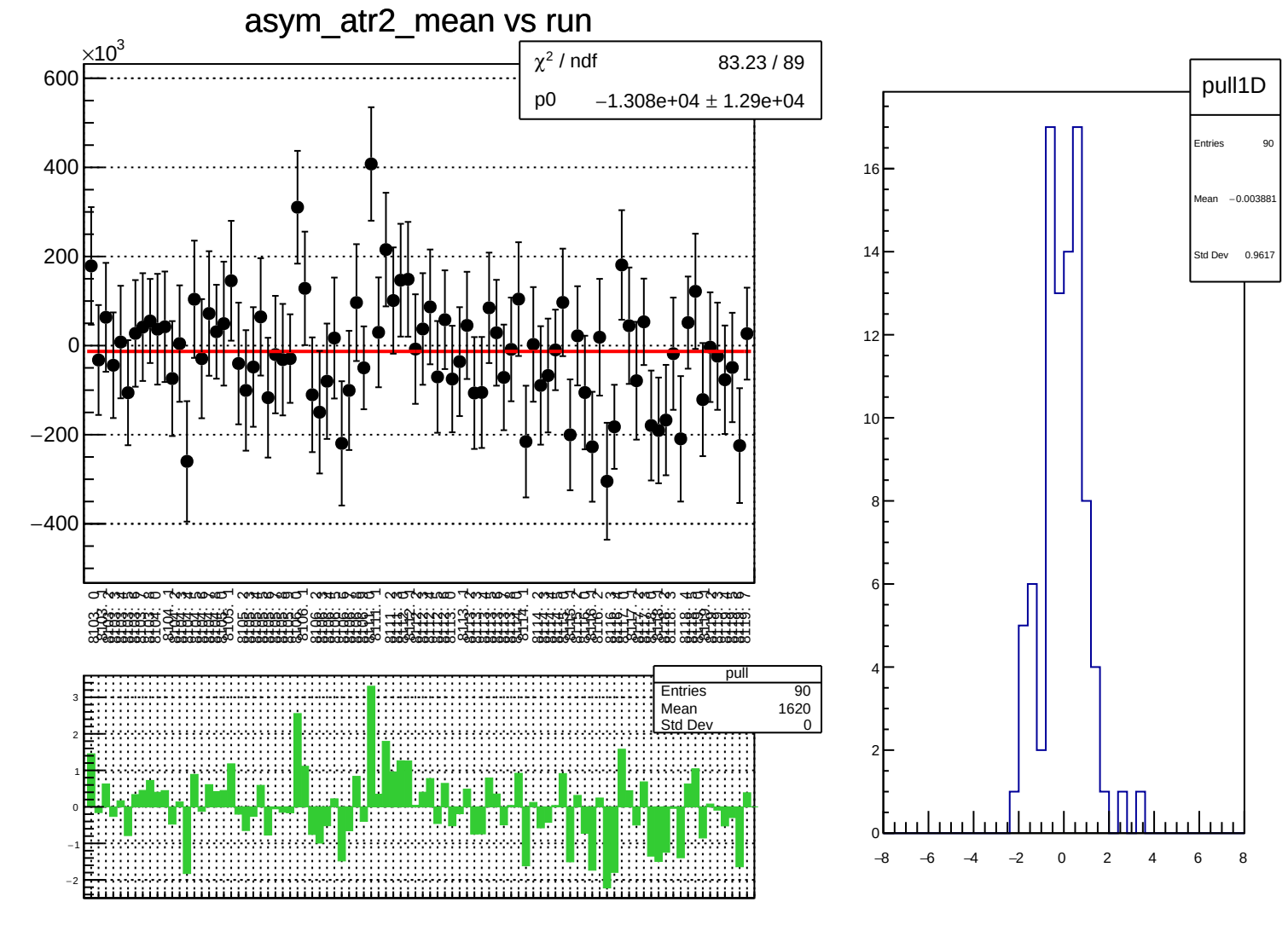

eigen_dit_asym_atr2_rms vs run
χ² / ndf 278.6 / 89
p0 2397 ± 1.808
2500
2450
2400
2350
2300

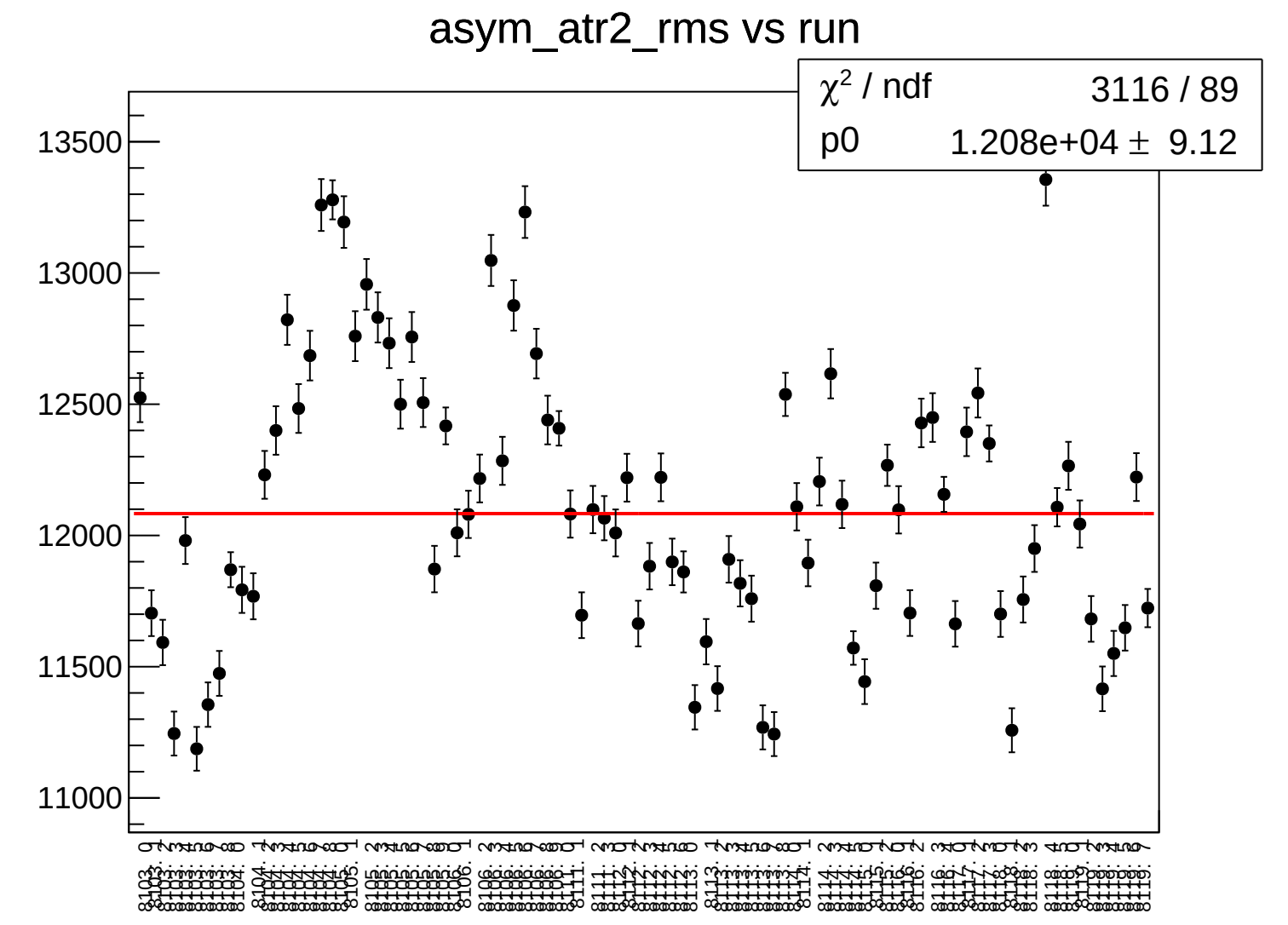

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.47 / 89
p0 1.751e+04 ± 1.279e+04
400
200
0
−200
−400
−600
pull
Entries 90
Mean 1075
Std Dev 0
2
1
0
−1
−2
−3

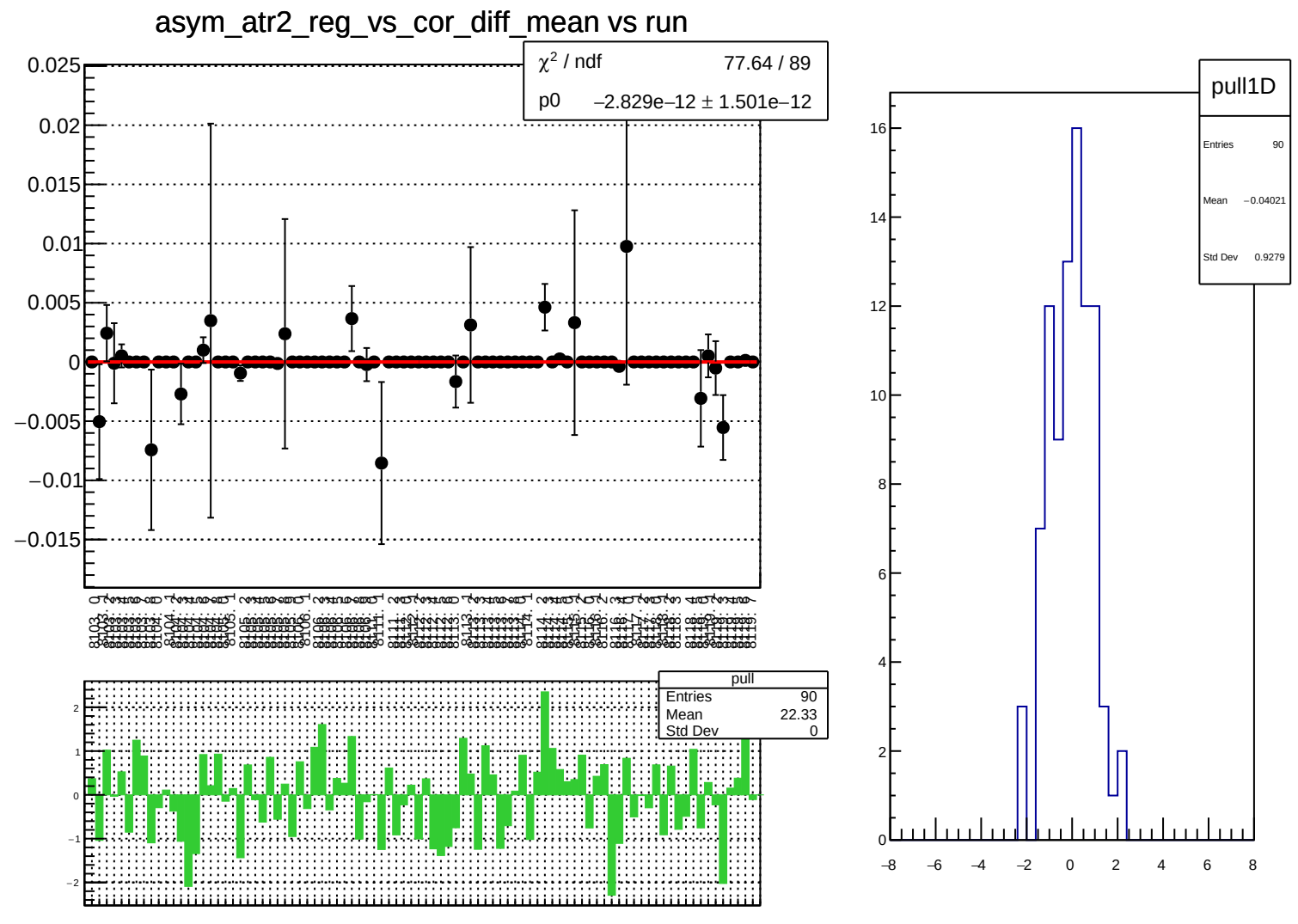

pull1D
Entries 90
Mean 0.006823
Std Dev 0.997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

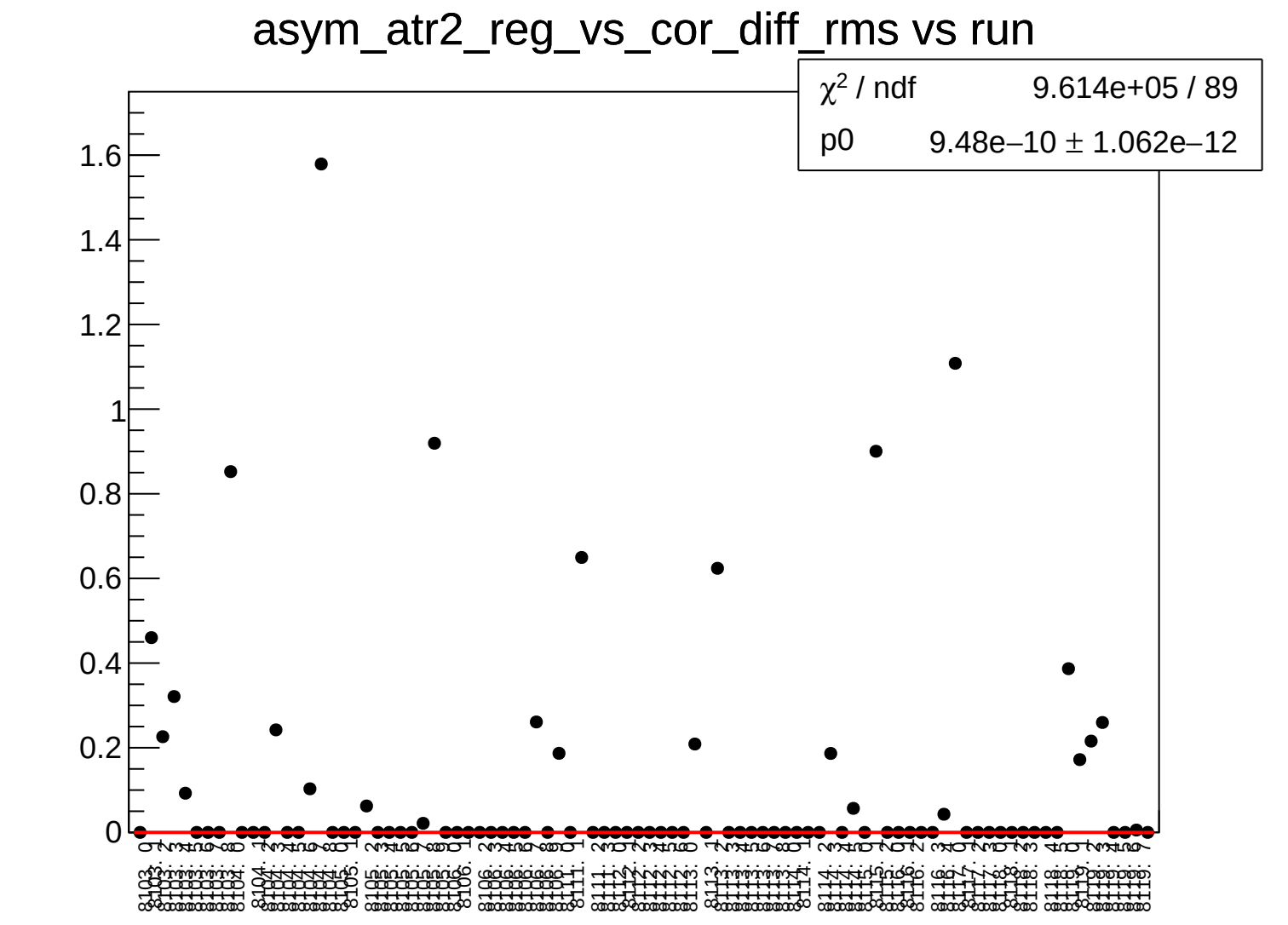
asym_atr2_eigen_dit_correction_rms vs run

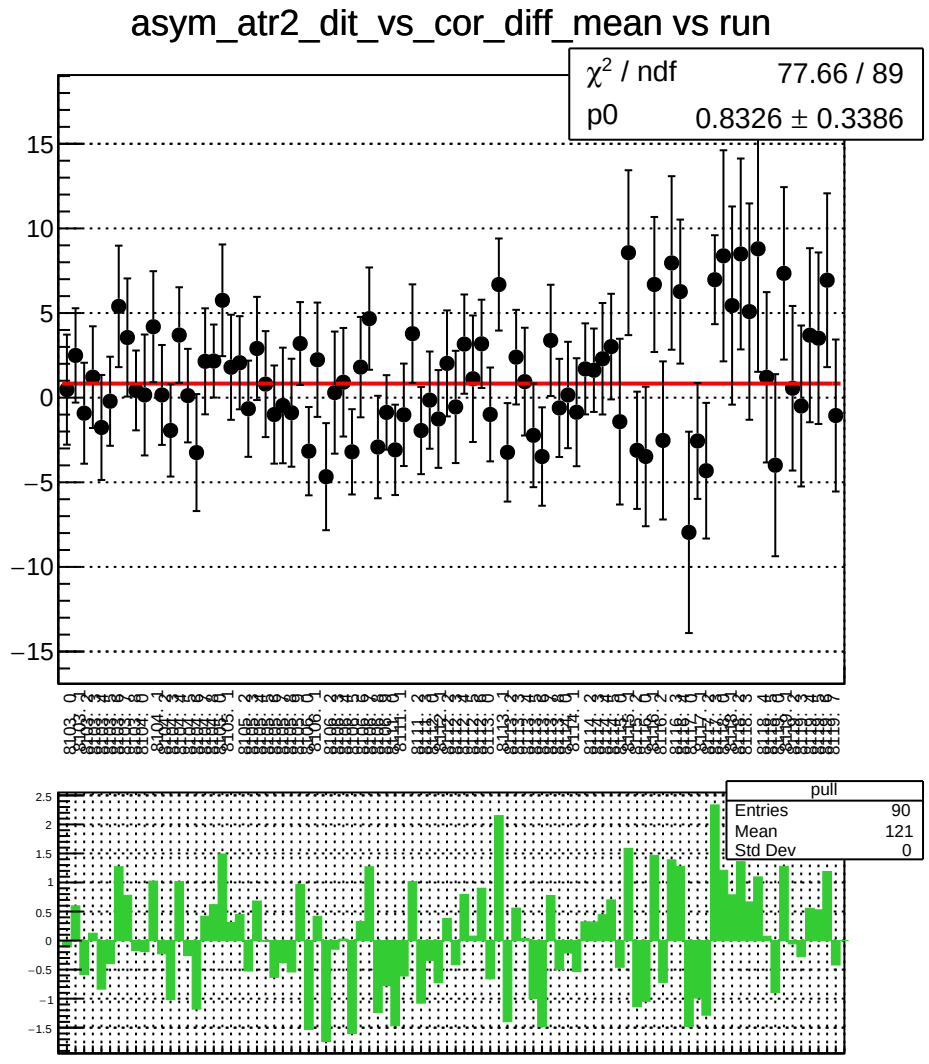


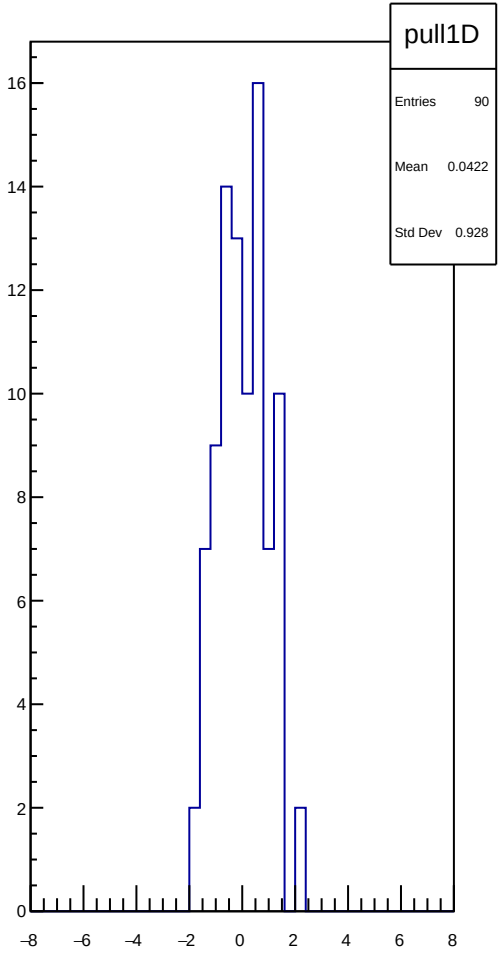

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 83.23 / 89
p0 −1.308e+04 ± 1.29e+04
pull
Entries 90
Mean 1620
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003881
Std Dev 0.9617
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

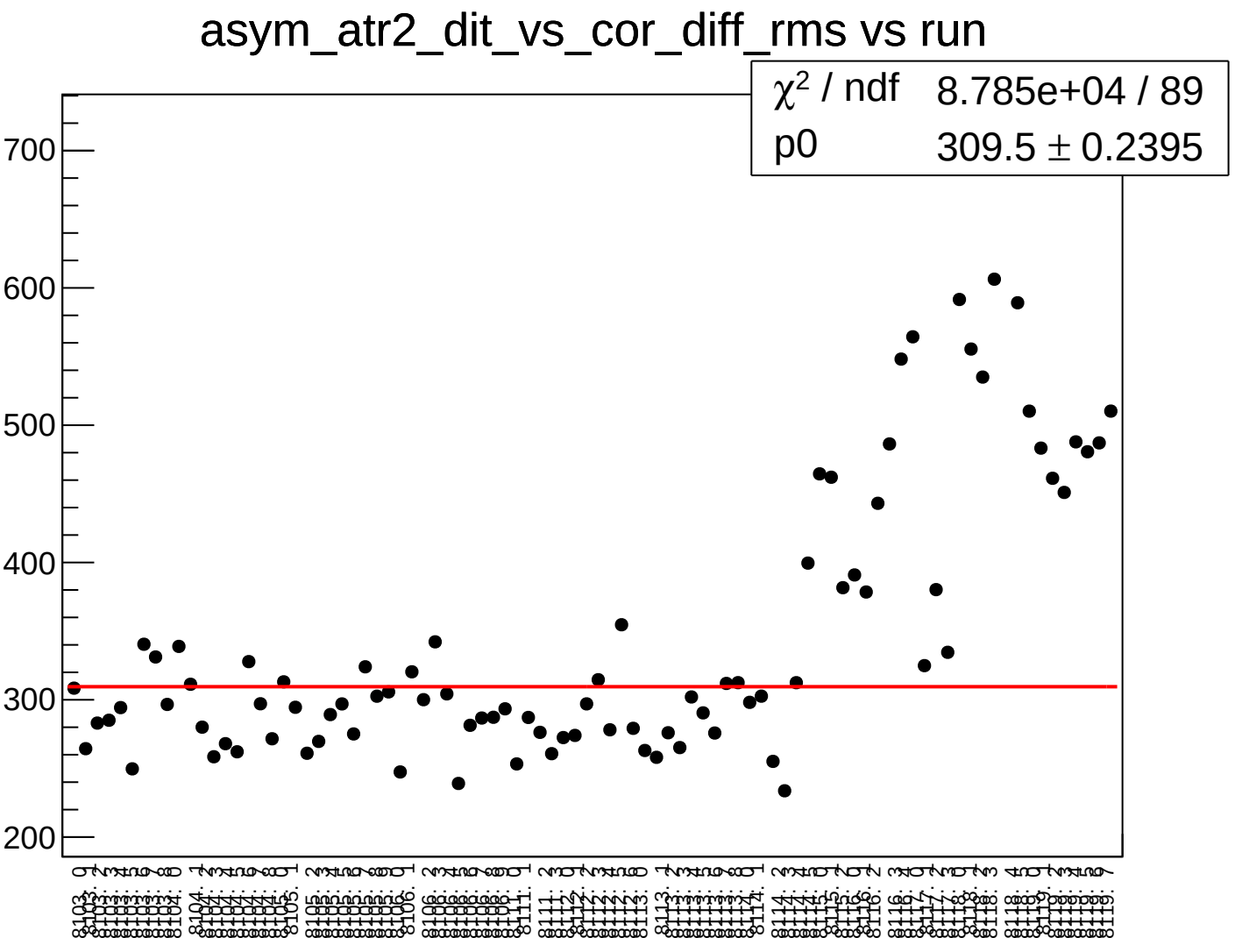

asym_atr2_rms vs run
χ² / ndf 3116 / 89
p0 1.208e+04 ± 9.12
13500
13000
12500
12000
11500
11000

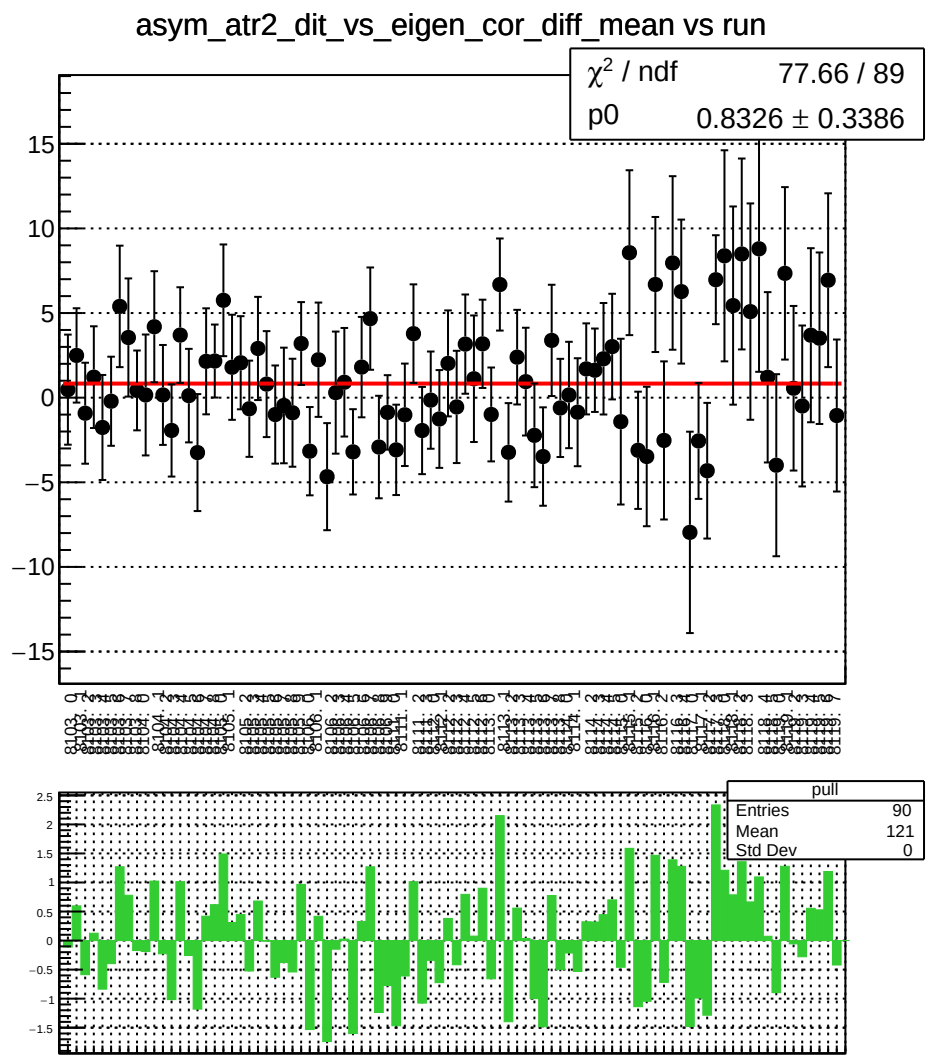

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 77.64 / 89
p0 −2.829e−12 ± 1.501e−12
pull
Entries 90
Mean 22.33
Std Dev 0
pull1D
Entries 90
Mean −0.04021
Std Dev 0.9279

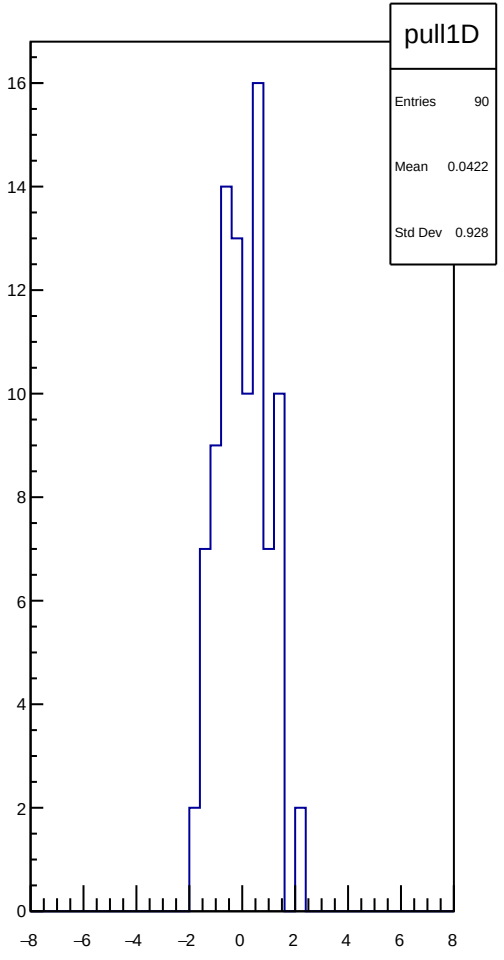

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.614e+05 / 89
p0 9.48e−10 ± 1.062e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

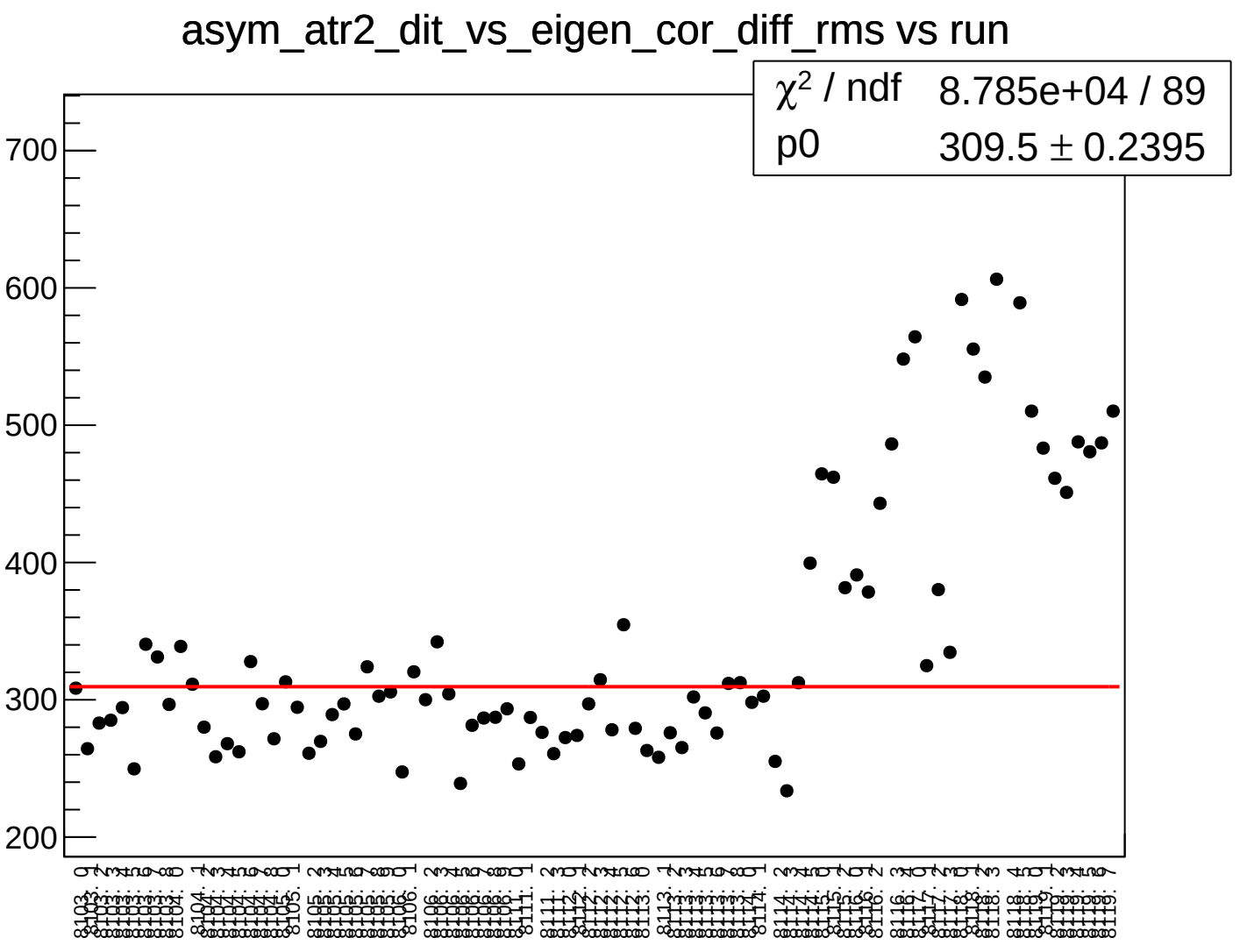

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 77.66 / 89
p0 0.8326 ± 0.3386
pull
Entries 90
Mean 121
Std Dev 0

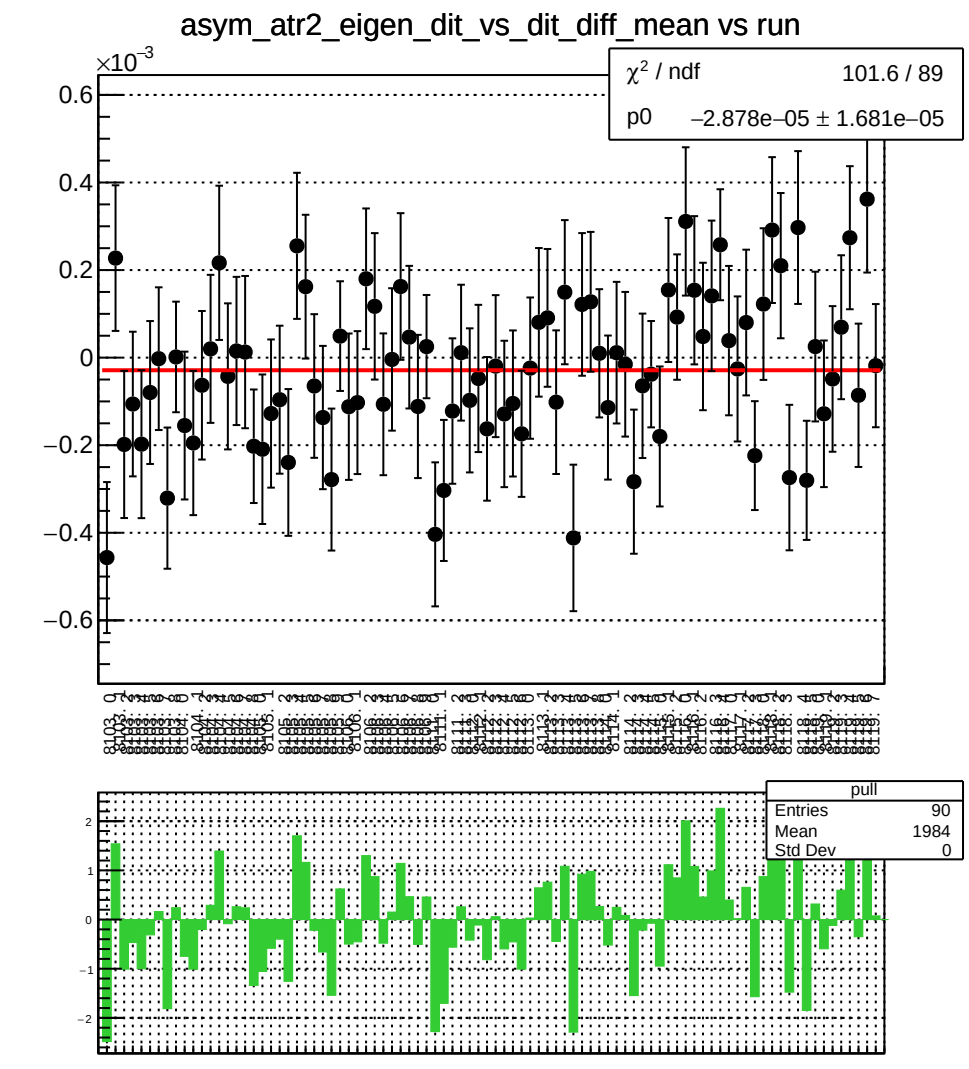

pull1D
Entries 90
Mean 0.0422
Std Dev 0.928

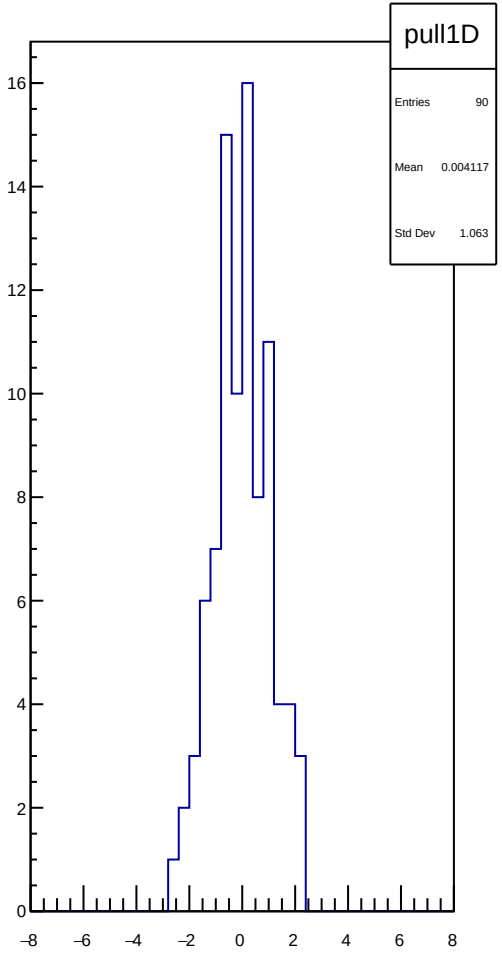

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 89
p0 309.5 ± 0.2395
700
600
500
400
300
200

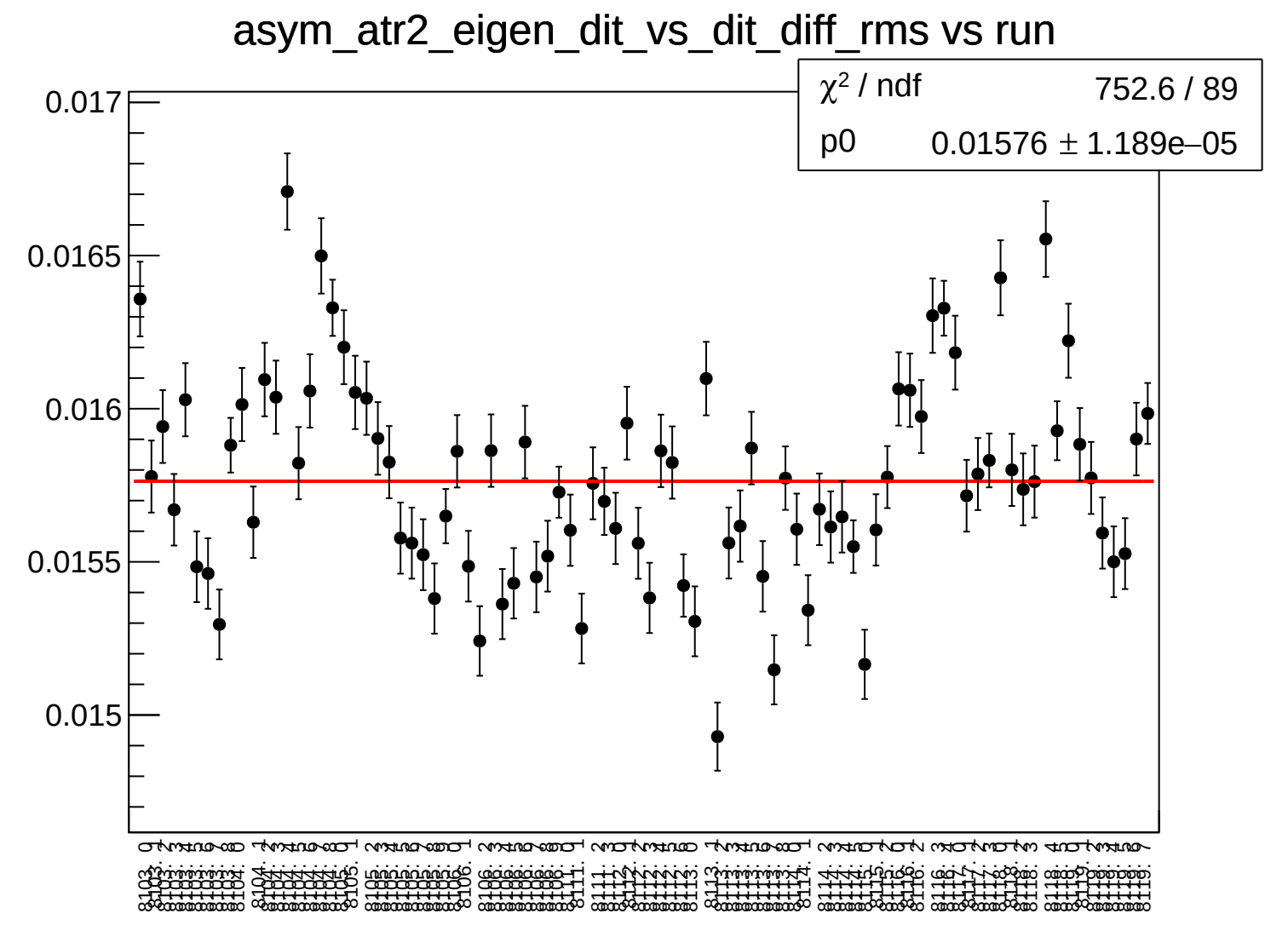

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.66 / 89
p0 0.8326 ± 0.3386
pull
Entries 90
Mean 121
Std Dev 0

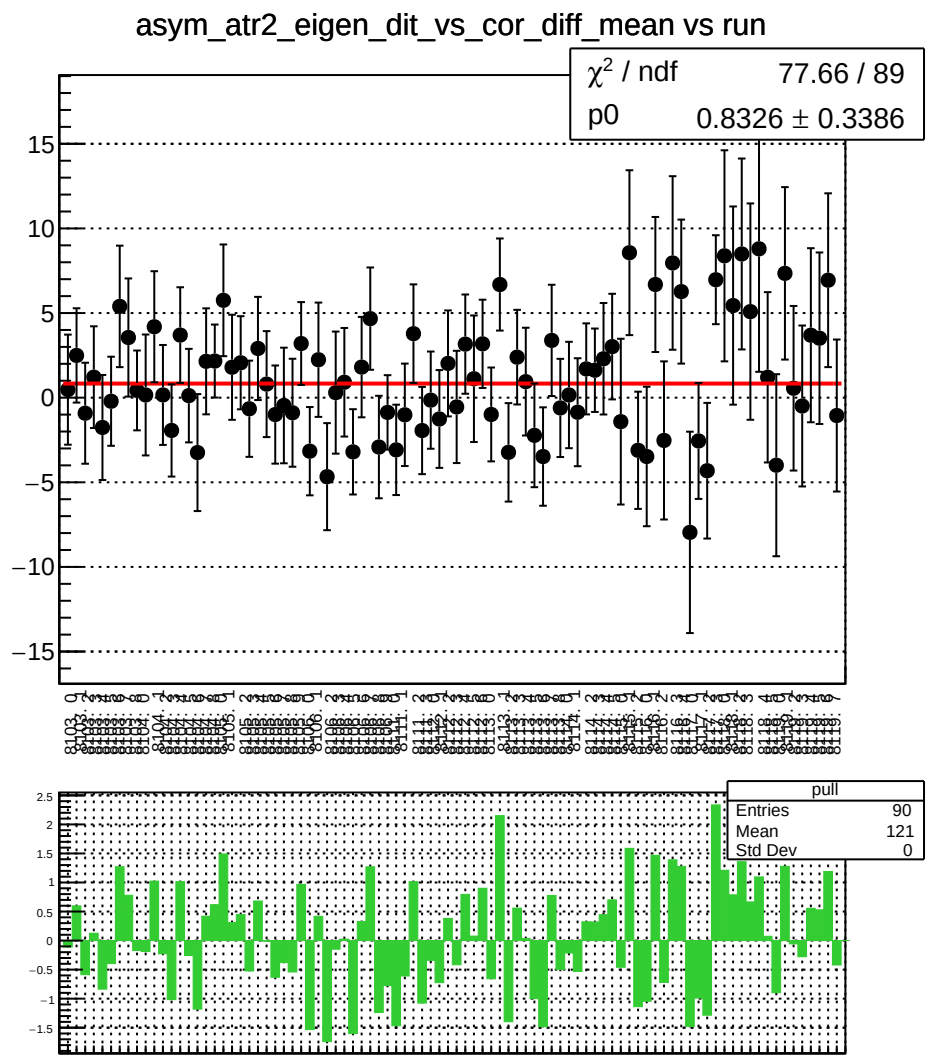

pull1D
Entries 90
Mean 0.0422
Std Dev 0.928

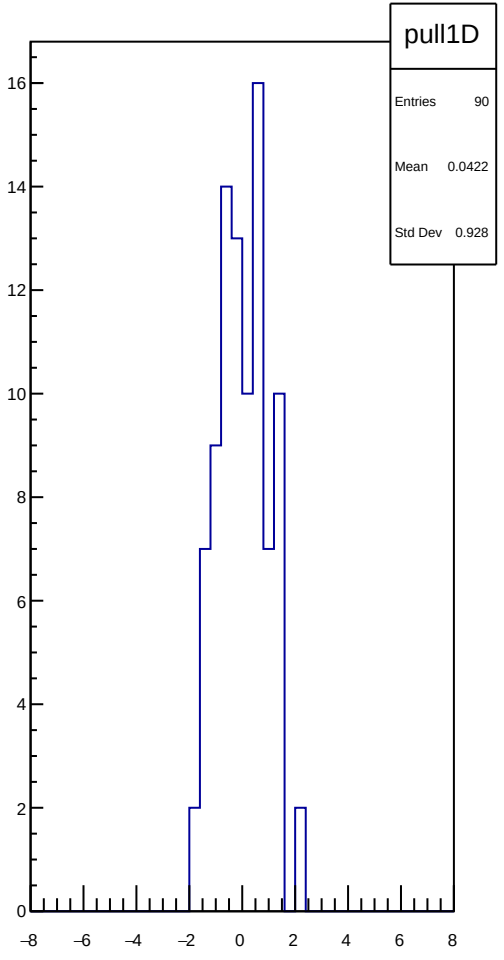

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 89
p0 309.5 ± 0.2395
700
600
500
400
300
200

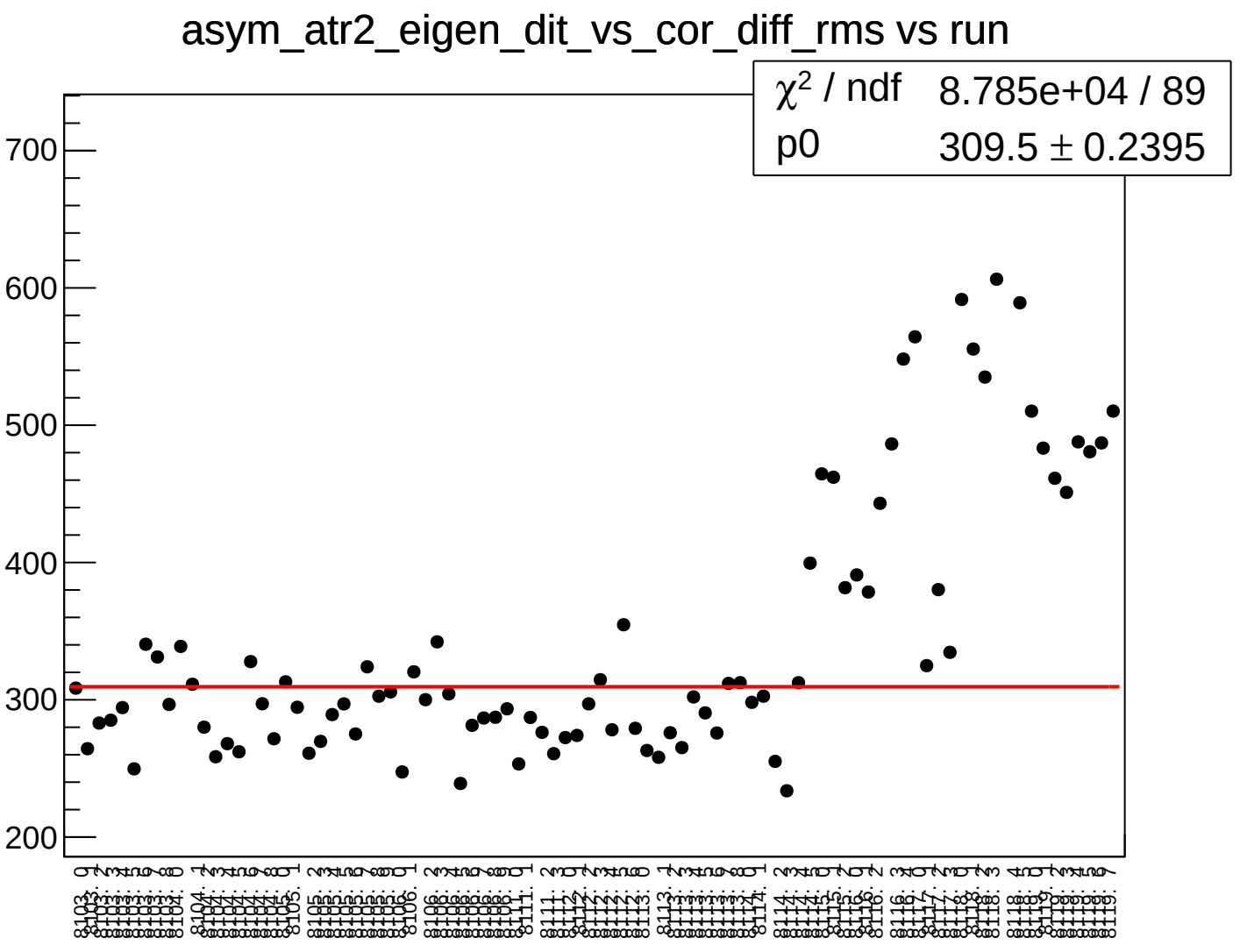

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.6 / 89
p0 −2.878e−05 ± 1.681e−05
pull
Entries 90
Mean 1984
Std Dev 0

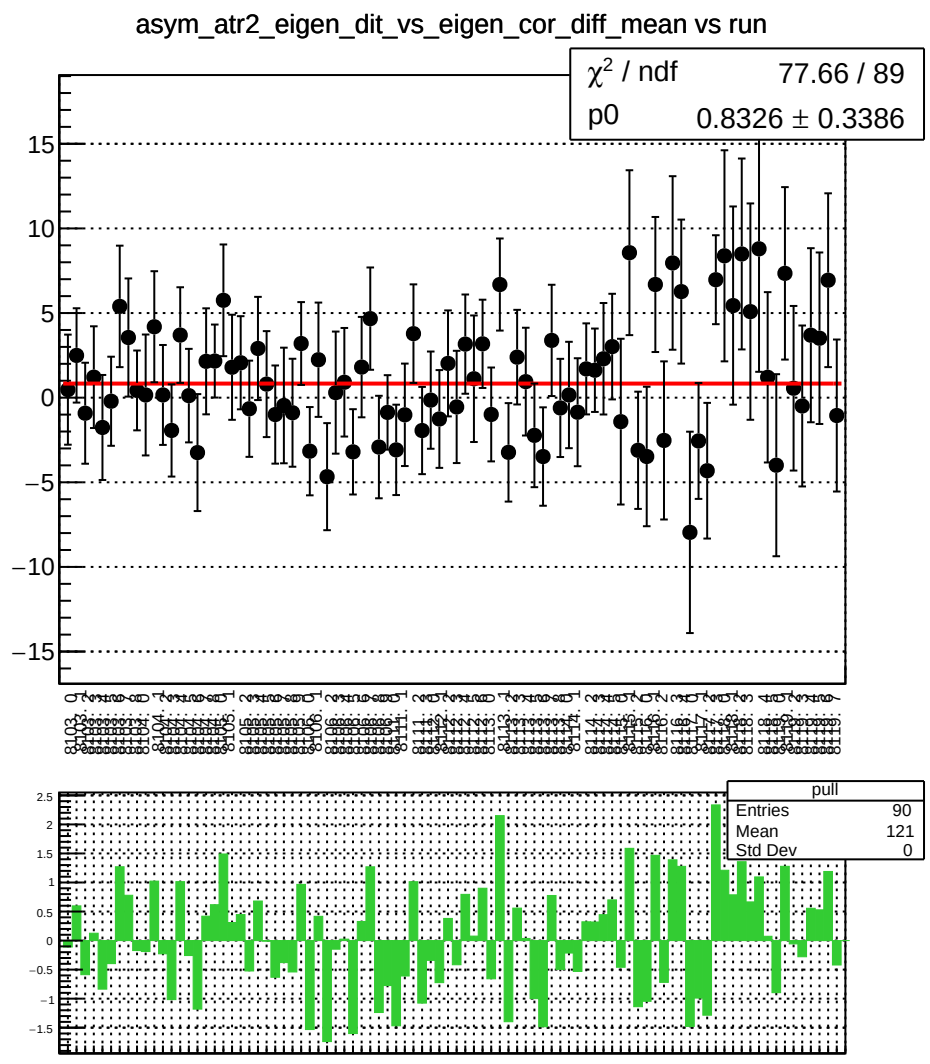

pull1D
Entries 90
Mean 0.004117
Std Dev 1.063

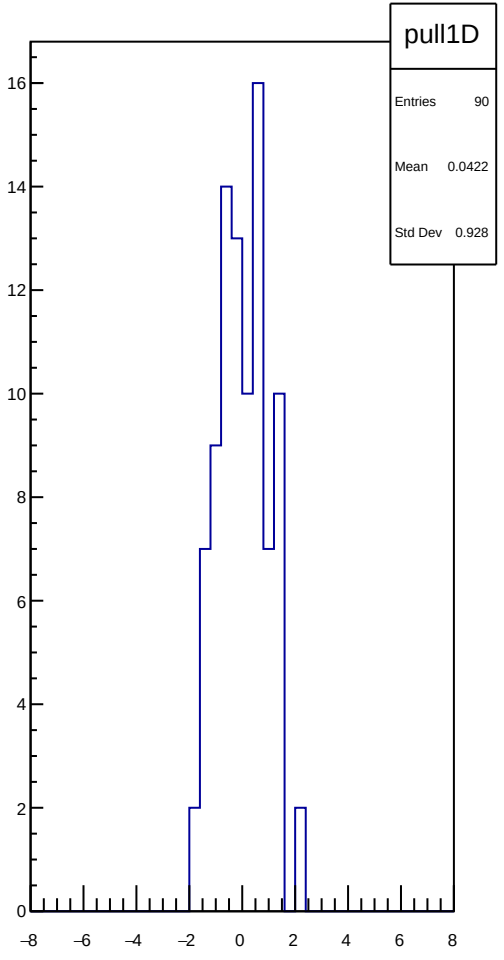

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 752.6 / 89
p0 0.01576 ± 1.189e−05
0.017
0.0165
0.016
0.0155
0.015

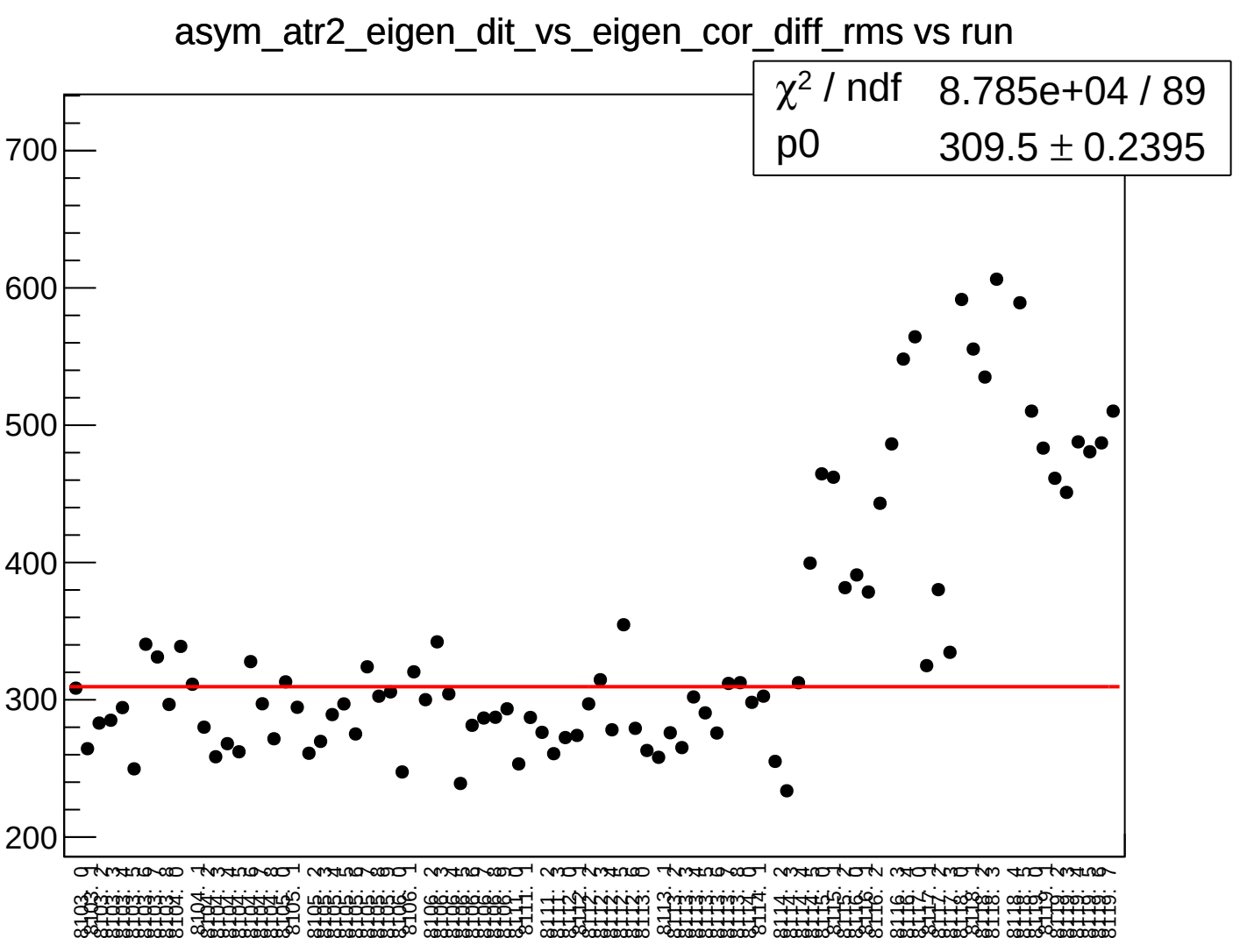

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.66 / 89
p0 0.8326 ± 0.3386
pull
Entries 90
Mean 121
Std Dev 0

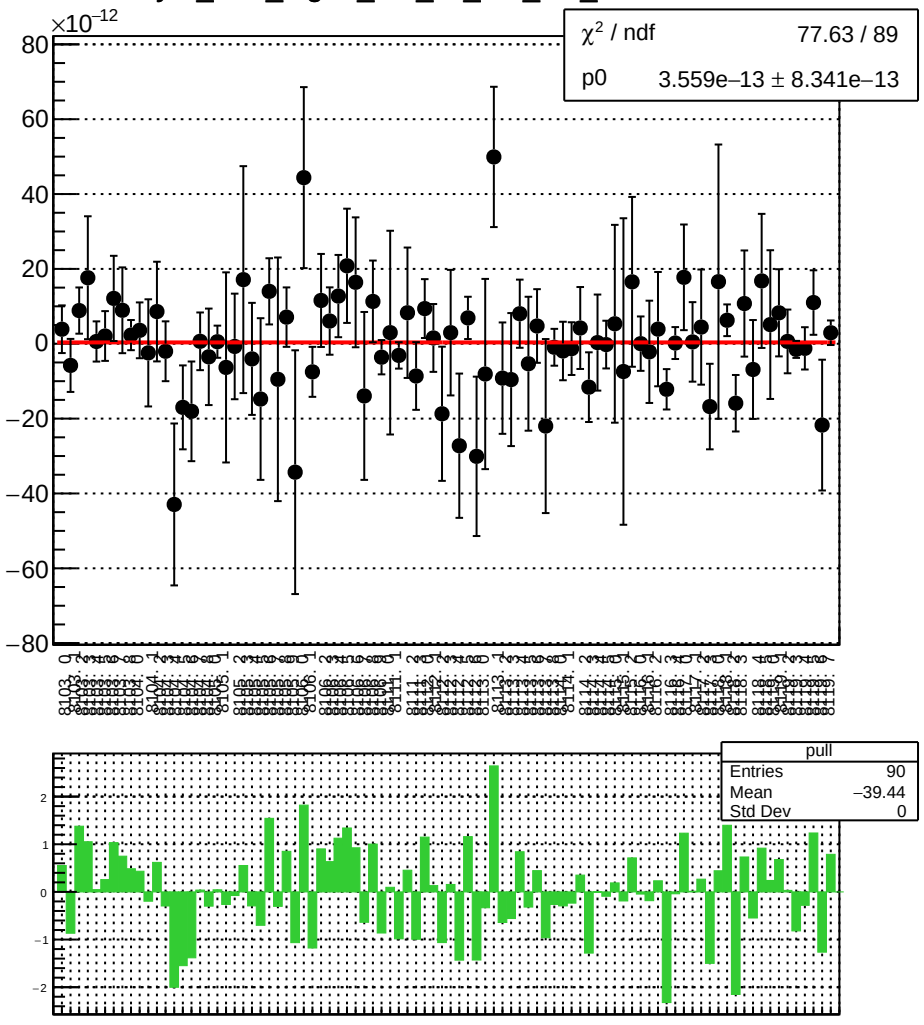

pull1D
Entries 90
Mean 0.0422
Std Dev 0.928

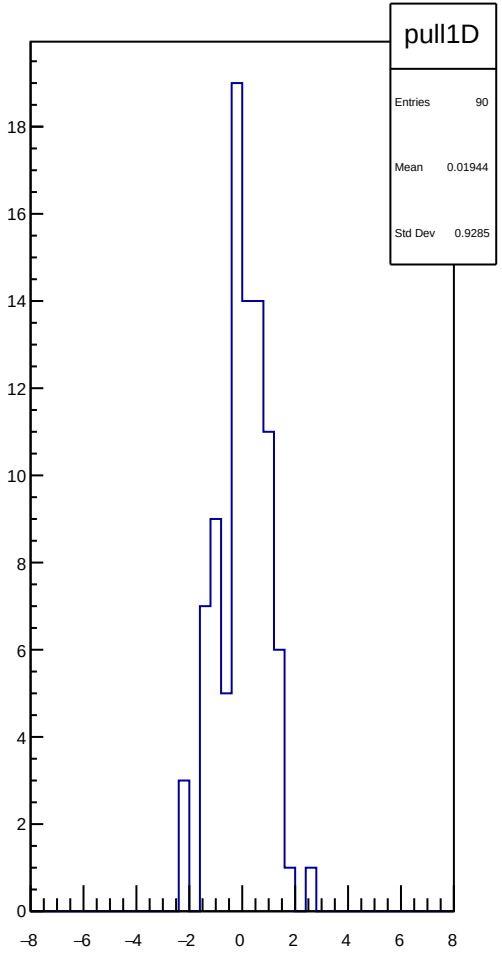

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 89
p0 309.5 ± 0.2395
700
600
500
400
300
200

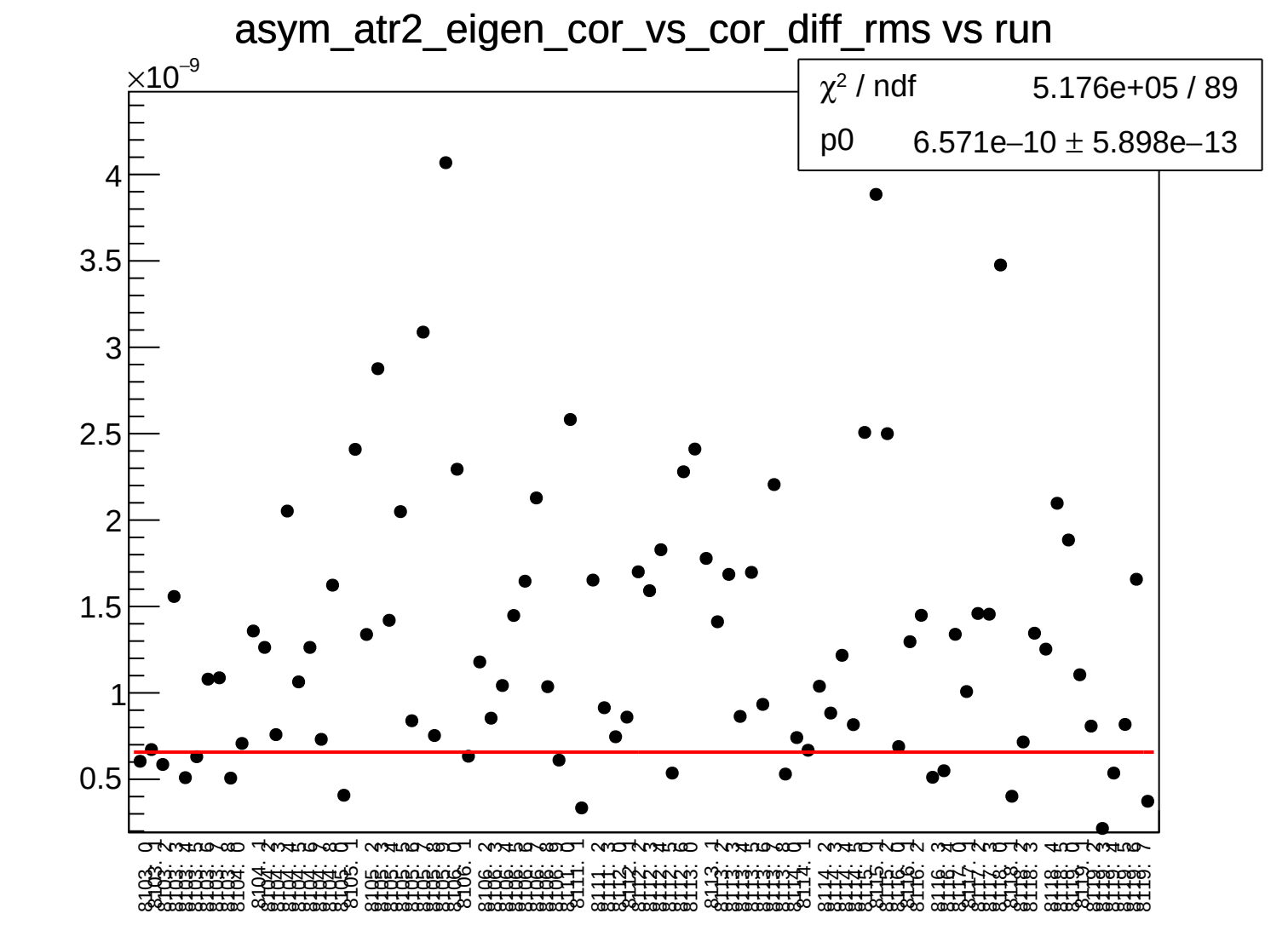

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.66 / 89
p0 0.8326 ± 0.3386
pull
Entries 90
Mean 121
Std Dev 0

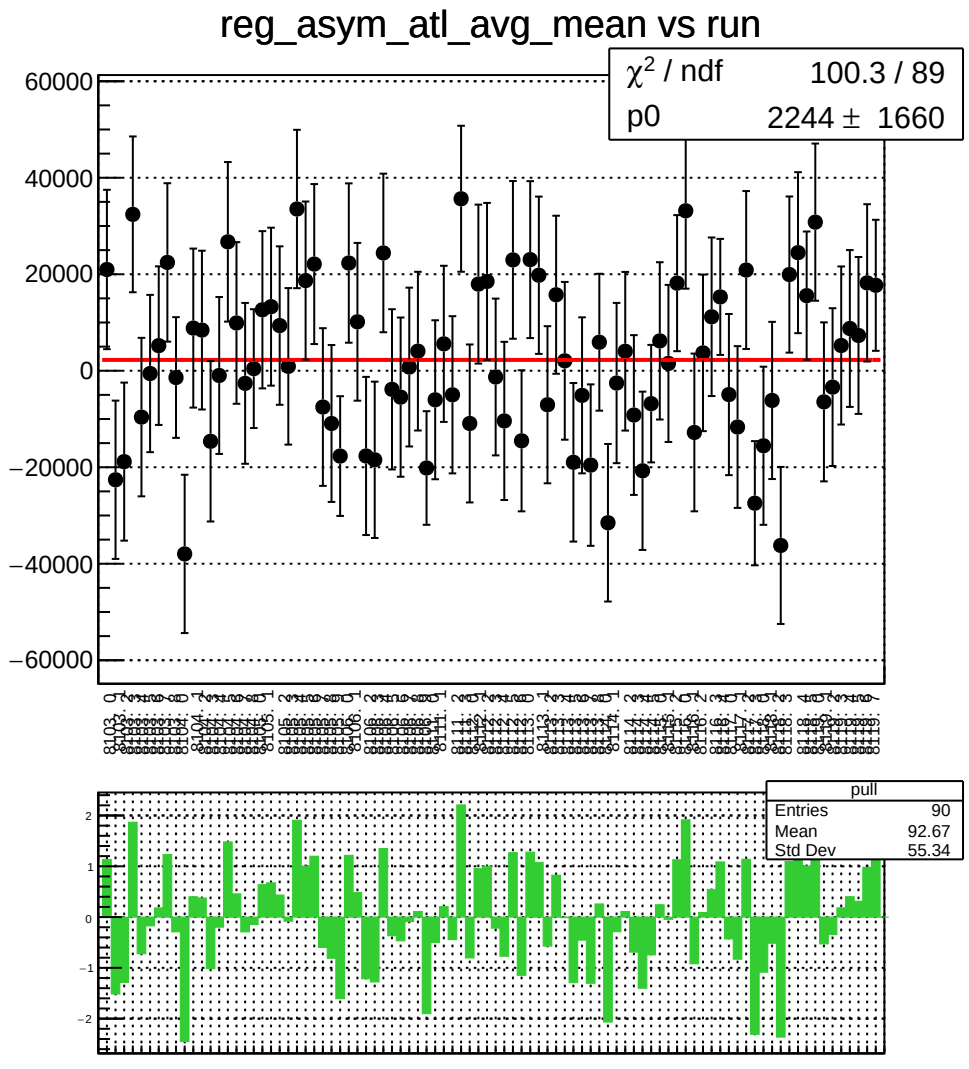

pull1D
Entries 90
Mean 0.0422
Std Dev 0.928

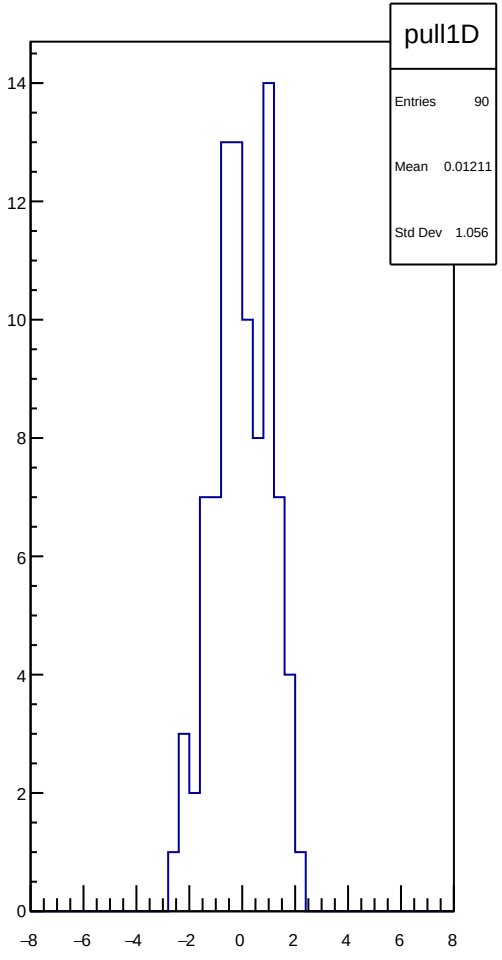

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.785e+04 / 89
p0 309.5 ± 0.2395
700
600
500
400
300
200

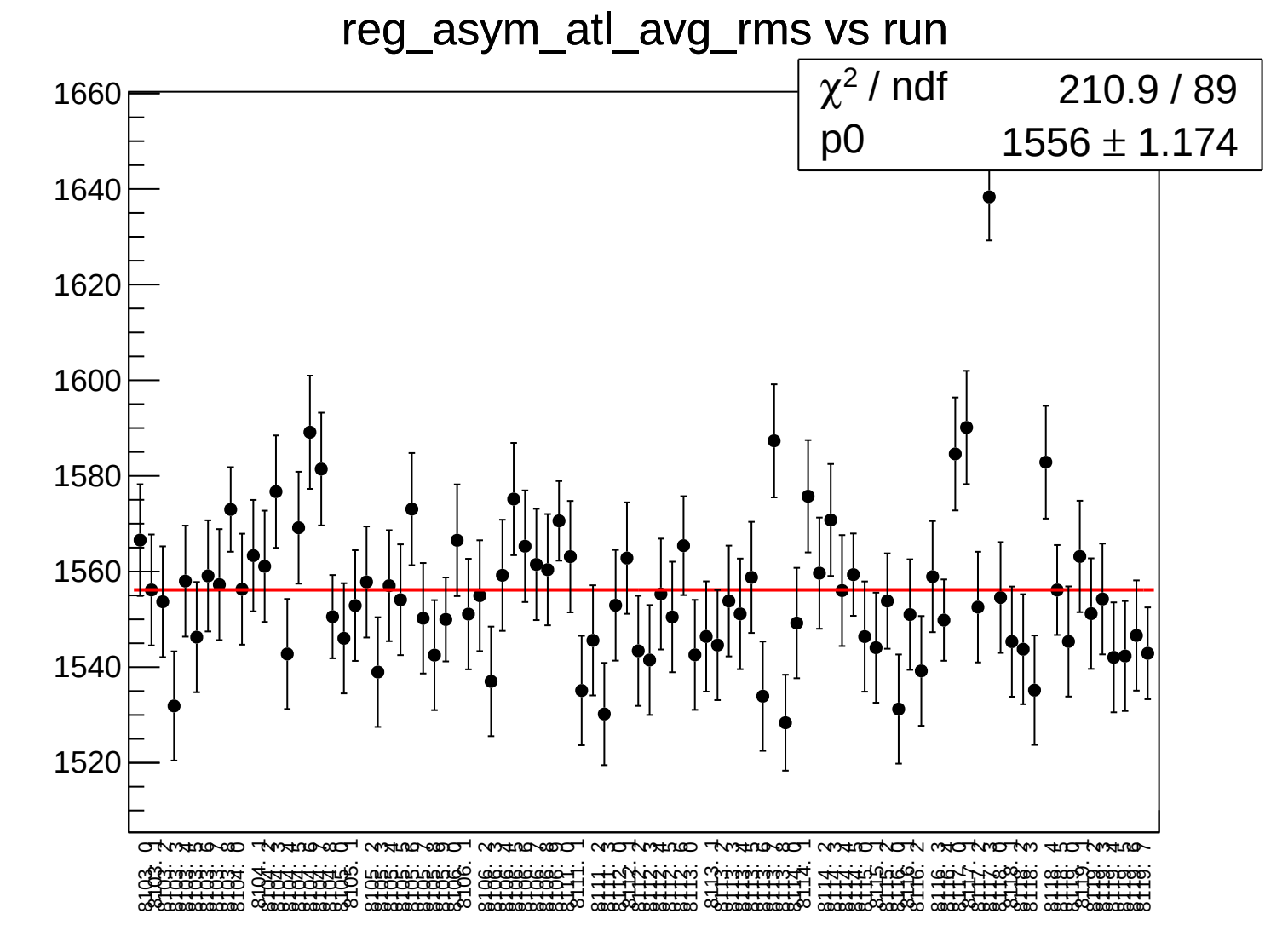

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.63 / 89
p0 3.559e−13 ± 8.341e−13
pull
Entries 90
Mean −39.44
Std Dev 0

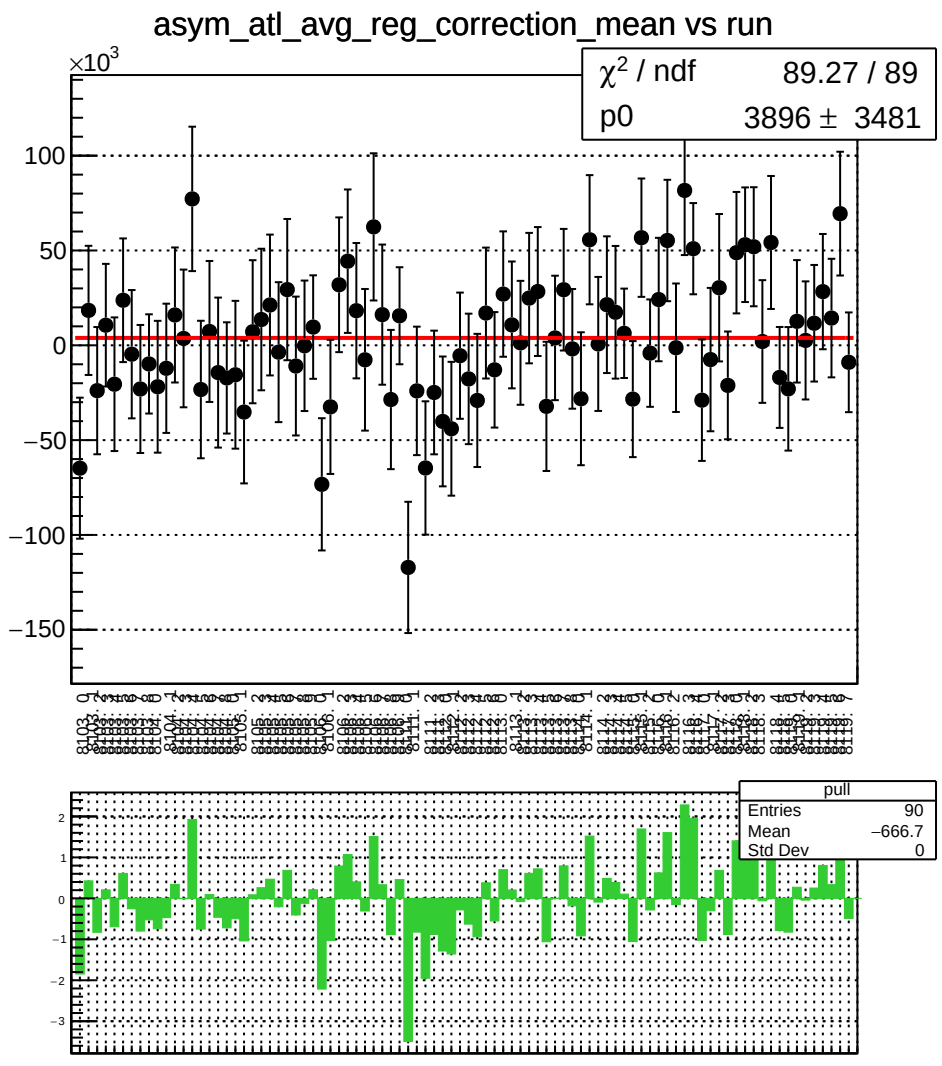

pull1D
Entries 90
Mean 0.01944
Std Dev 0.9285

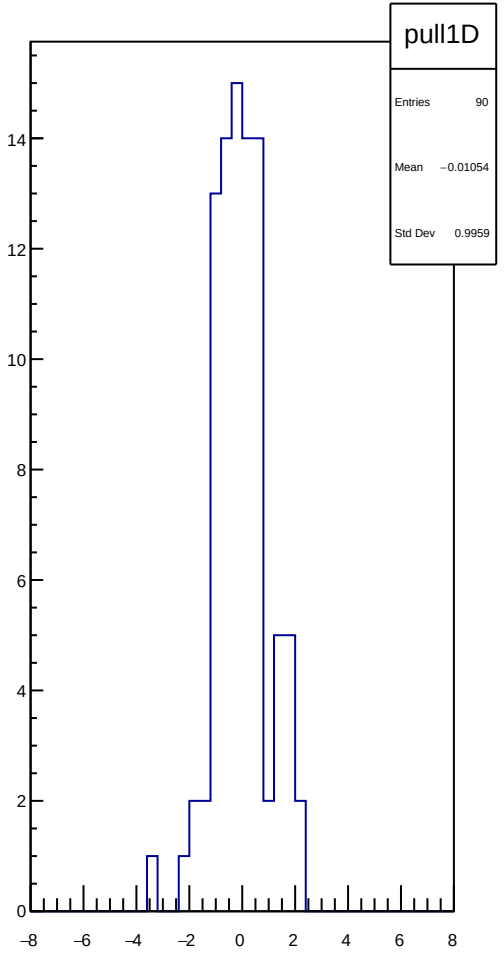

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.176e+05 / 89
p0 6.571e−10 ± 5.898e−13
4
3.5
3
2.5
2
1.5
1
0.5

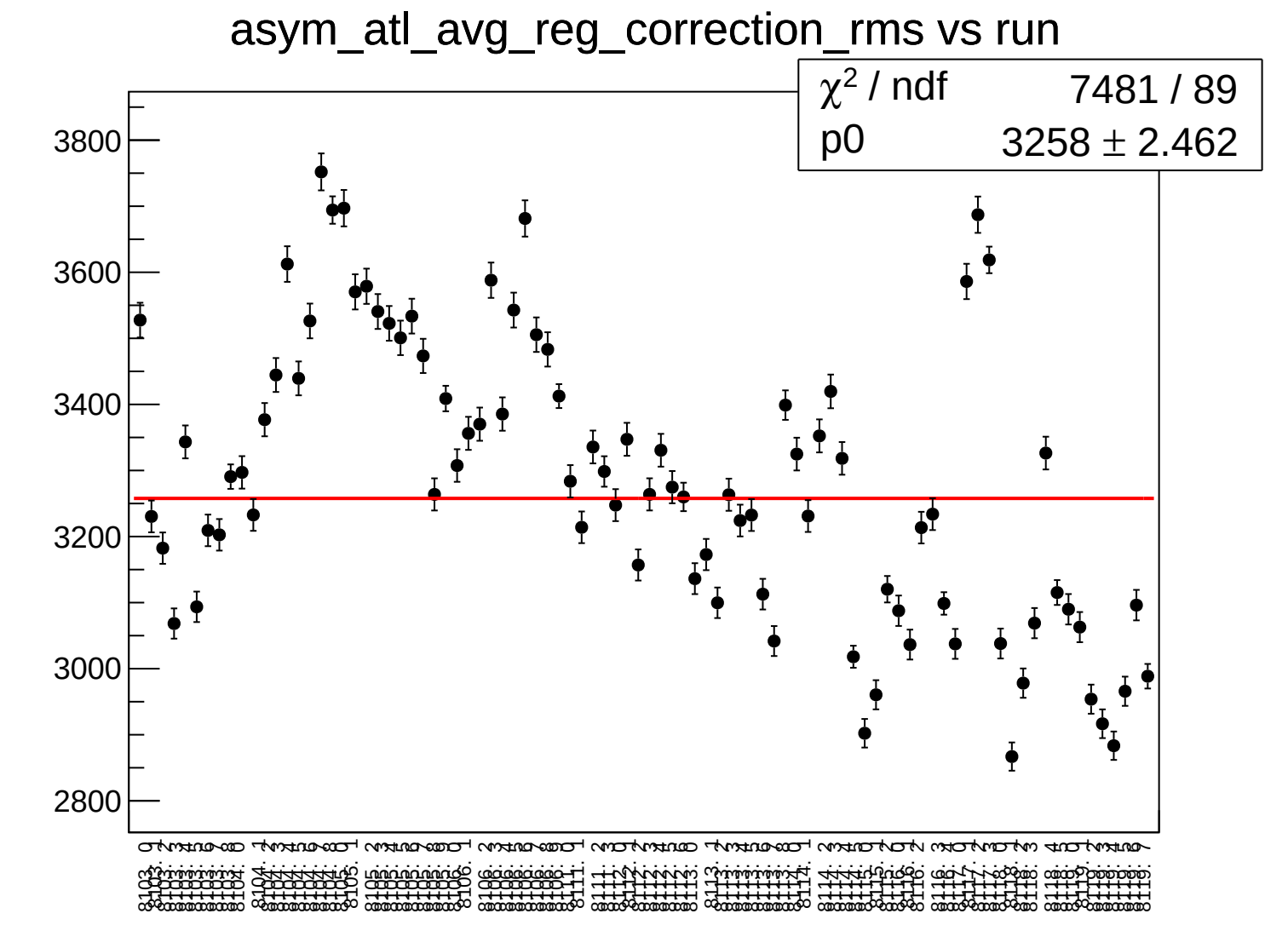

reg_asym_atl_avg_mean vs run
χ² / ndf 100.3 / 89
p0 2244 ± 1660
pull
Entries 90
Mean 92.67
Std Dev 55.34

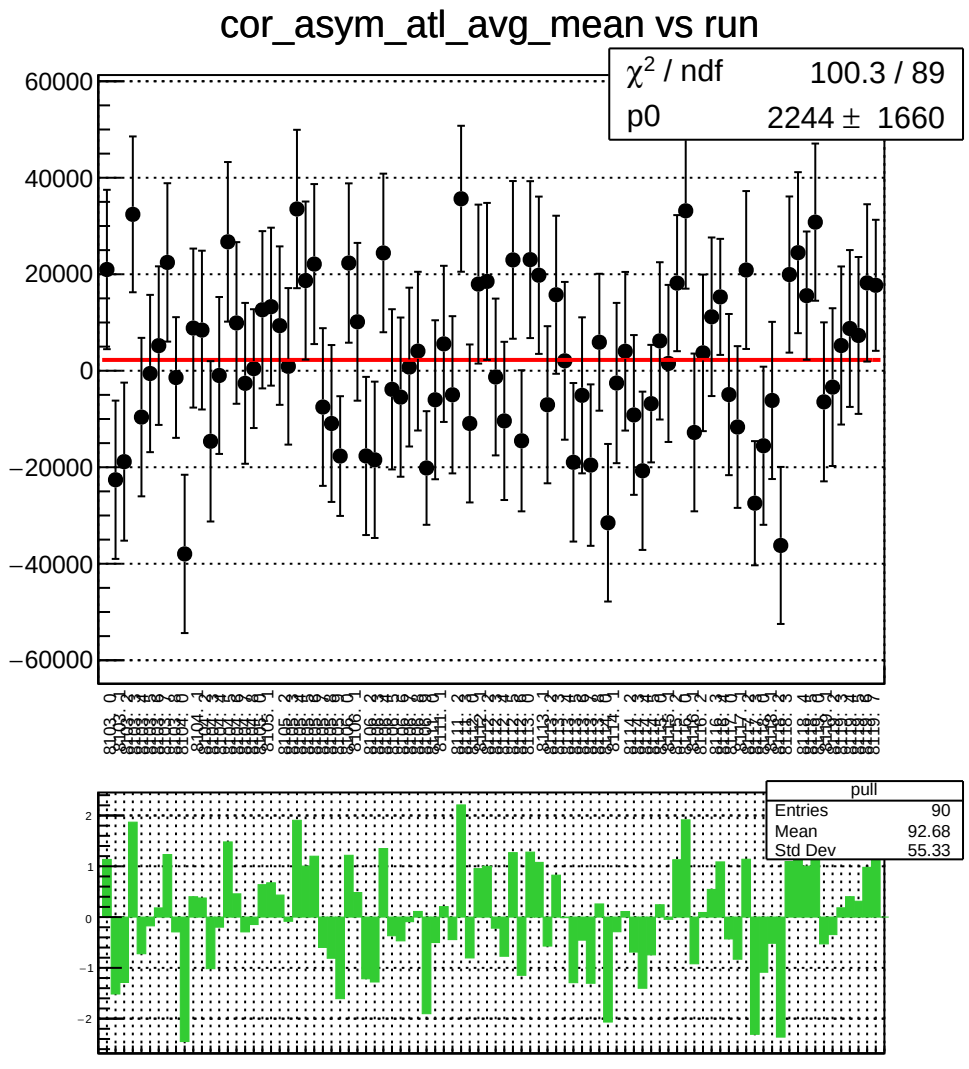

pull1D
Entries 90
Mean 0.01211
Std Dev 1.056

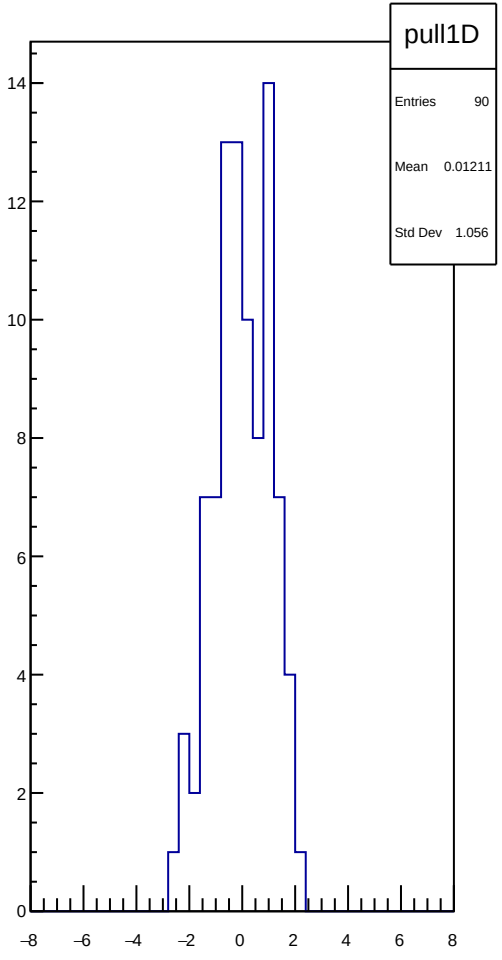

reg_asym_atl_avg_rms vs run
χ^2 / ndf 210.9 / 89
p0 1556 ± 1.174
1660
1640
1620
1600
1580
1560
1540
1520

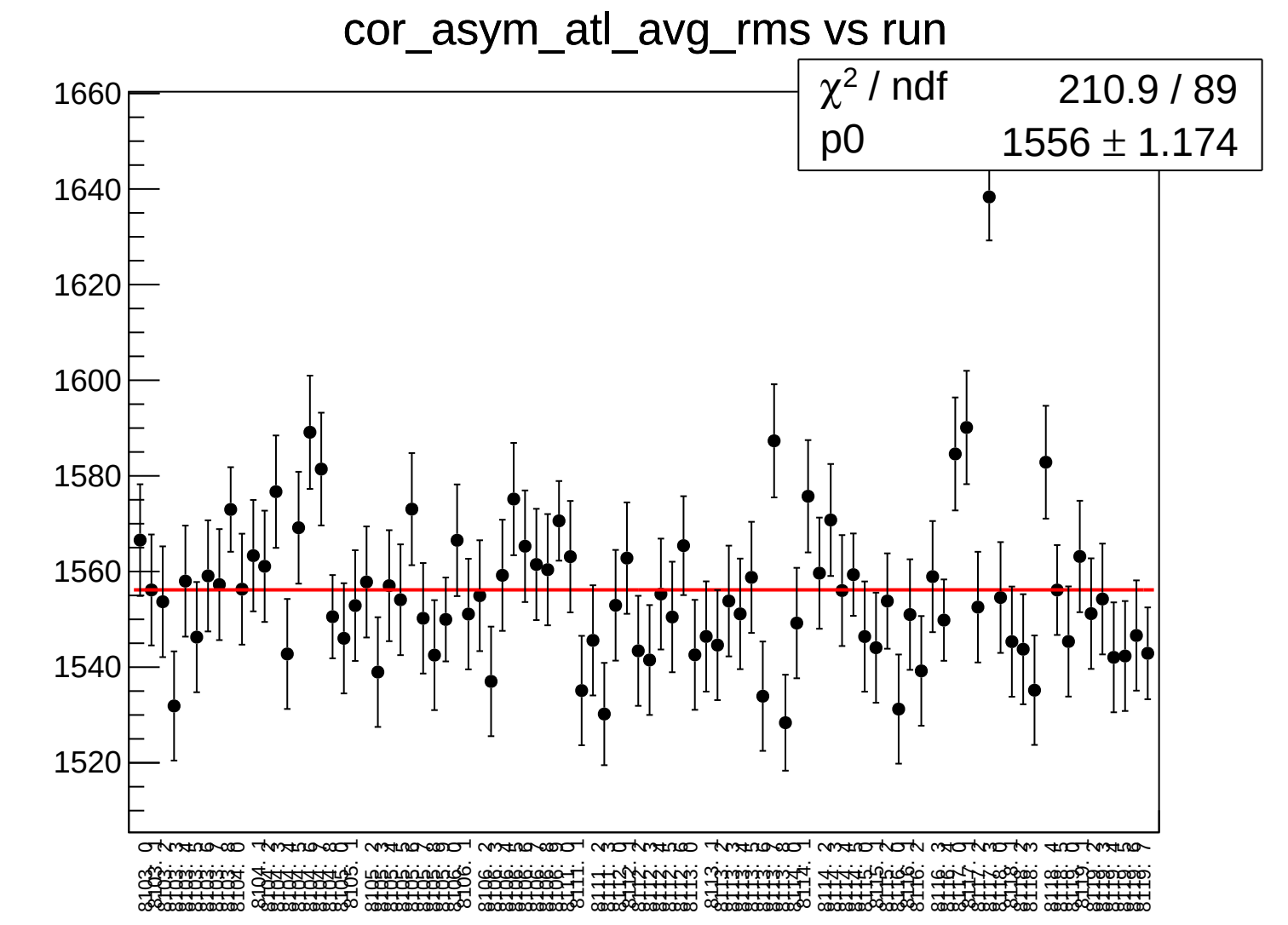

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.27 / 89
p0 3896 ± 3481
100
50
0
−50
−100
−150
pull
Entries 90
Mean −666.7
Std Dev 0
2
1
0
−1
−2
−3

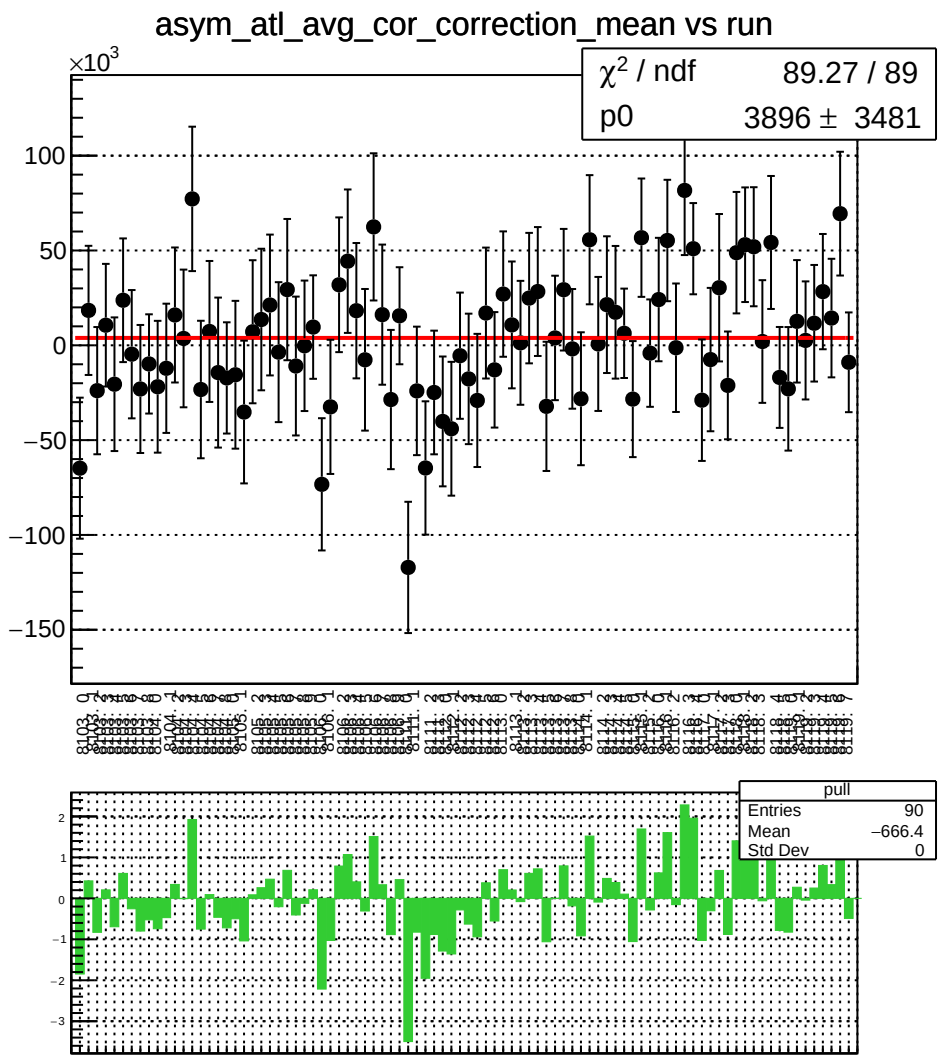

pull1D
Entries 90
Mean −0.01054
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

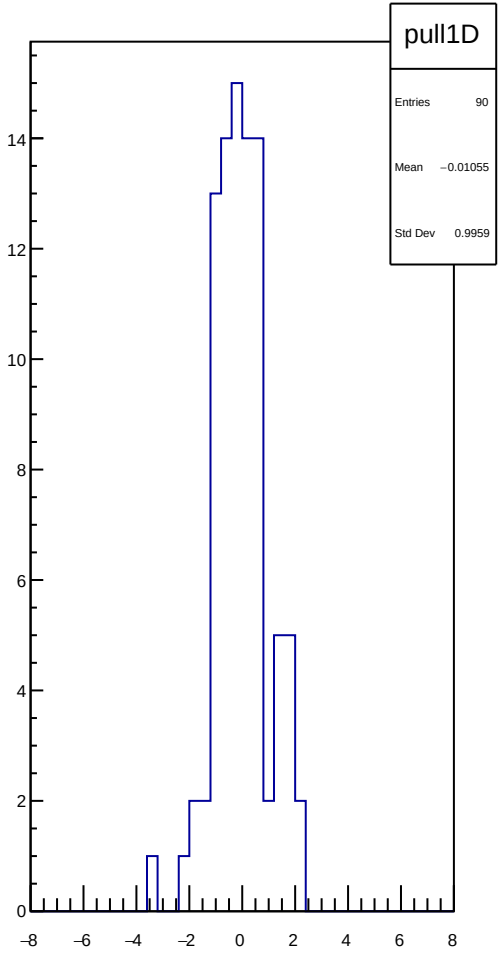

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 7481 / 89
p0 3258 ± 2.462
3800
3600
3400
3200
3000
2800

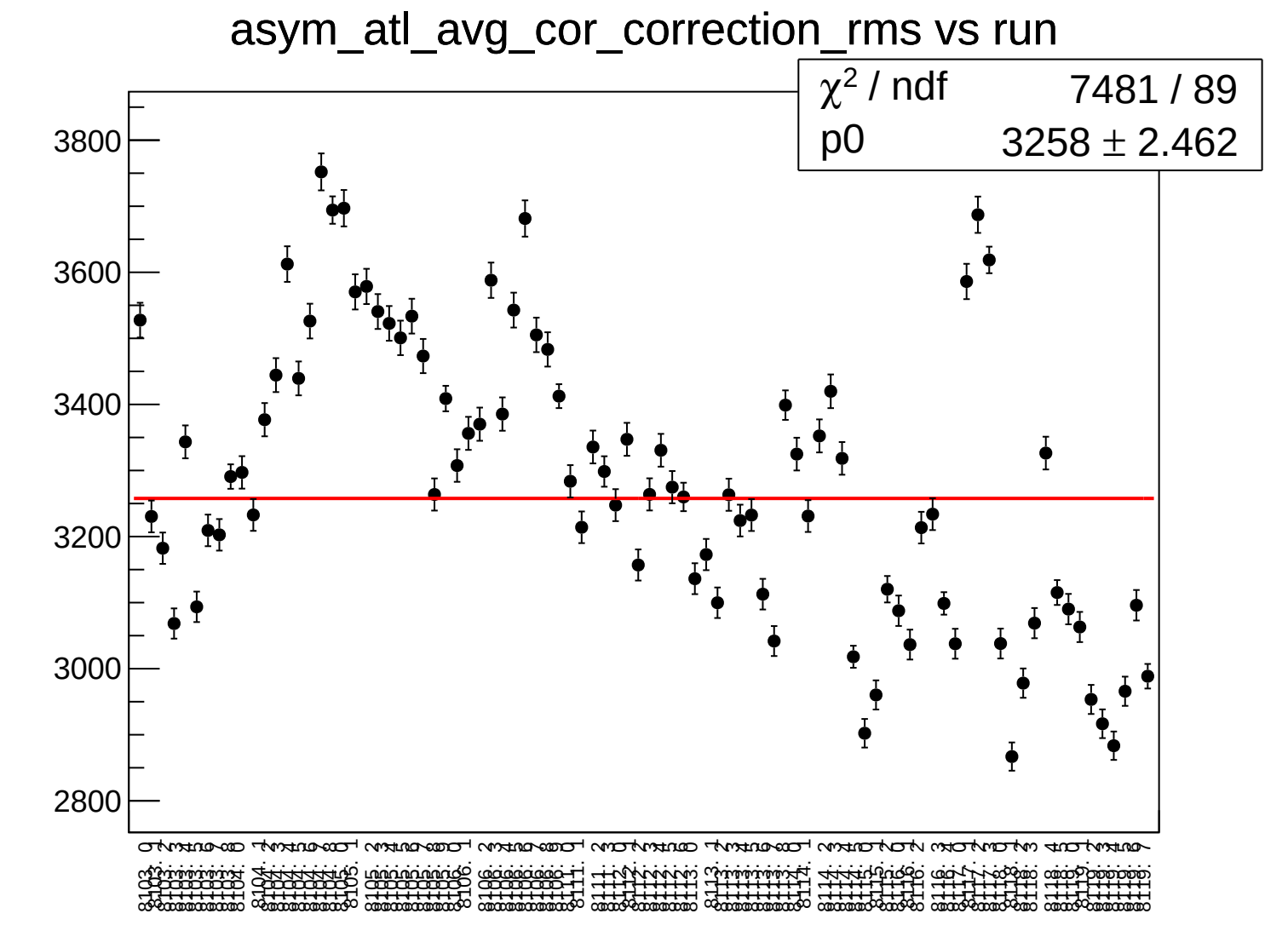

cor_asym_atl_avg_mean vs run
χ² / ndf 100.3 / 89
p0 2244 ± 1660
pull
Entries 90
Mean 92.68
Std Dev 55.33

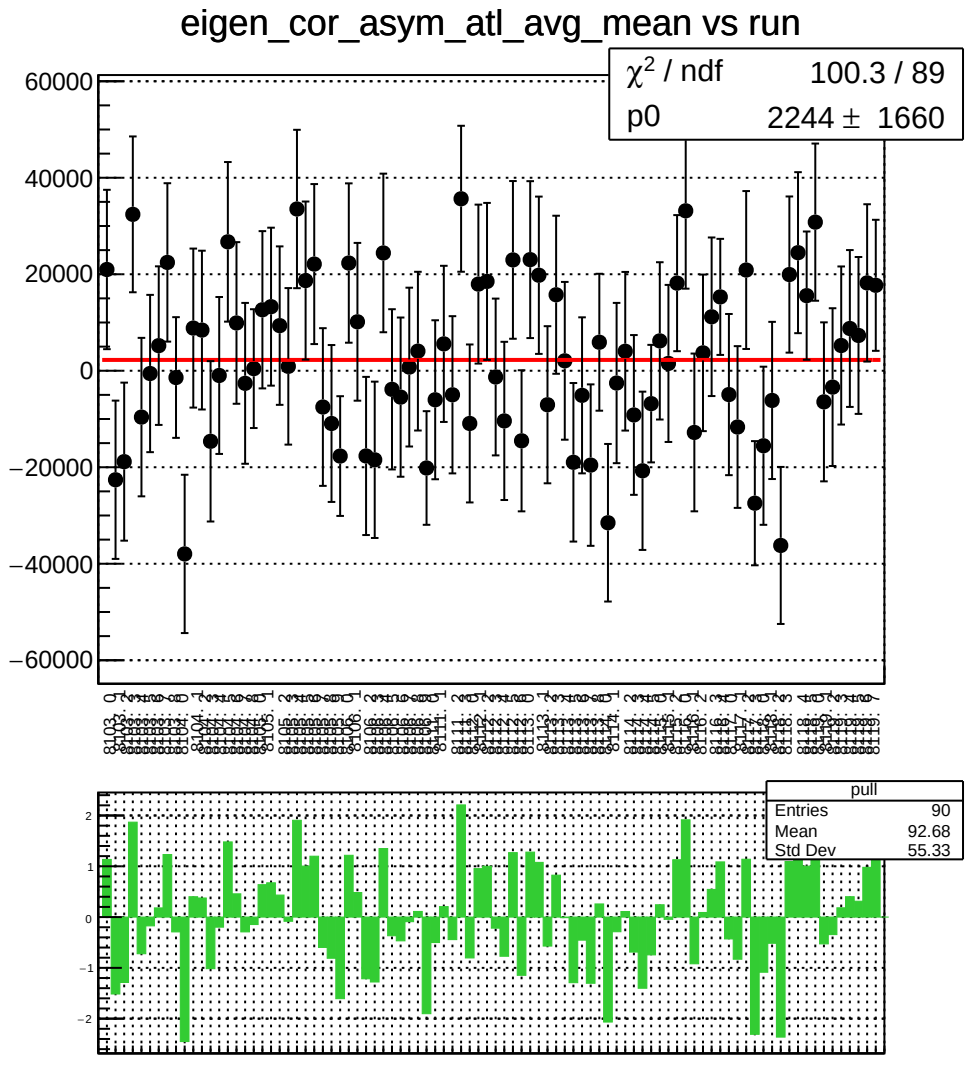

pull1D
Entries 90
Mean 0.01211
Std Dev 1.056

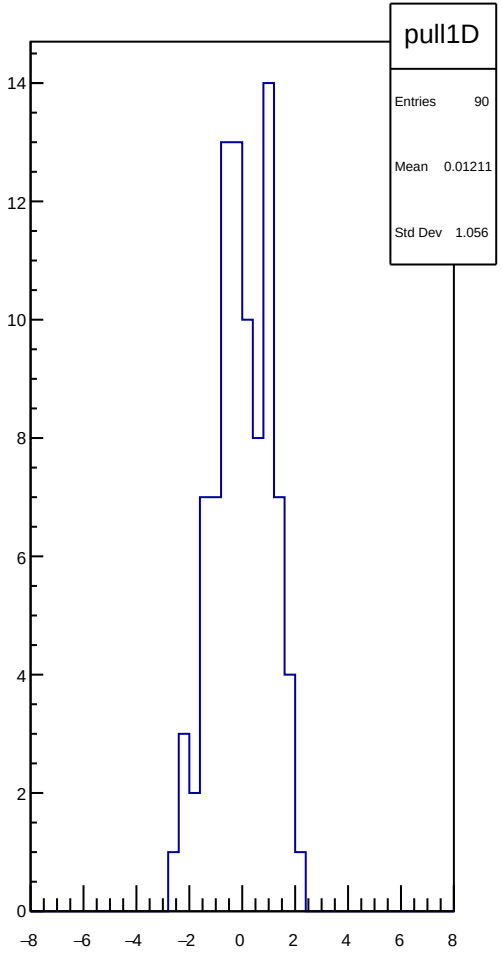

cor_asym_atl_avg_rms vs run
χ^2 / ndf 210.9 / 89
p0 1556 ± 1.174
1660
1640
1620
1600
1580
1560
1540
1520

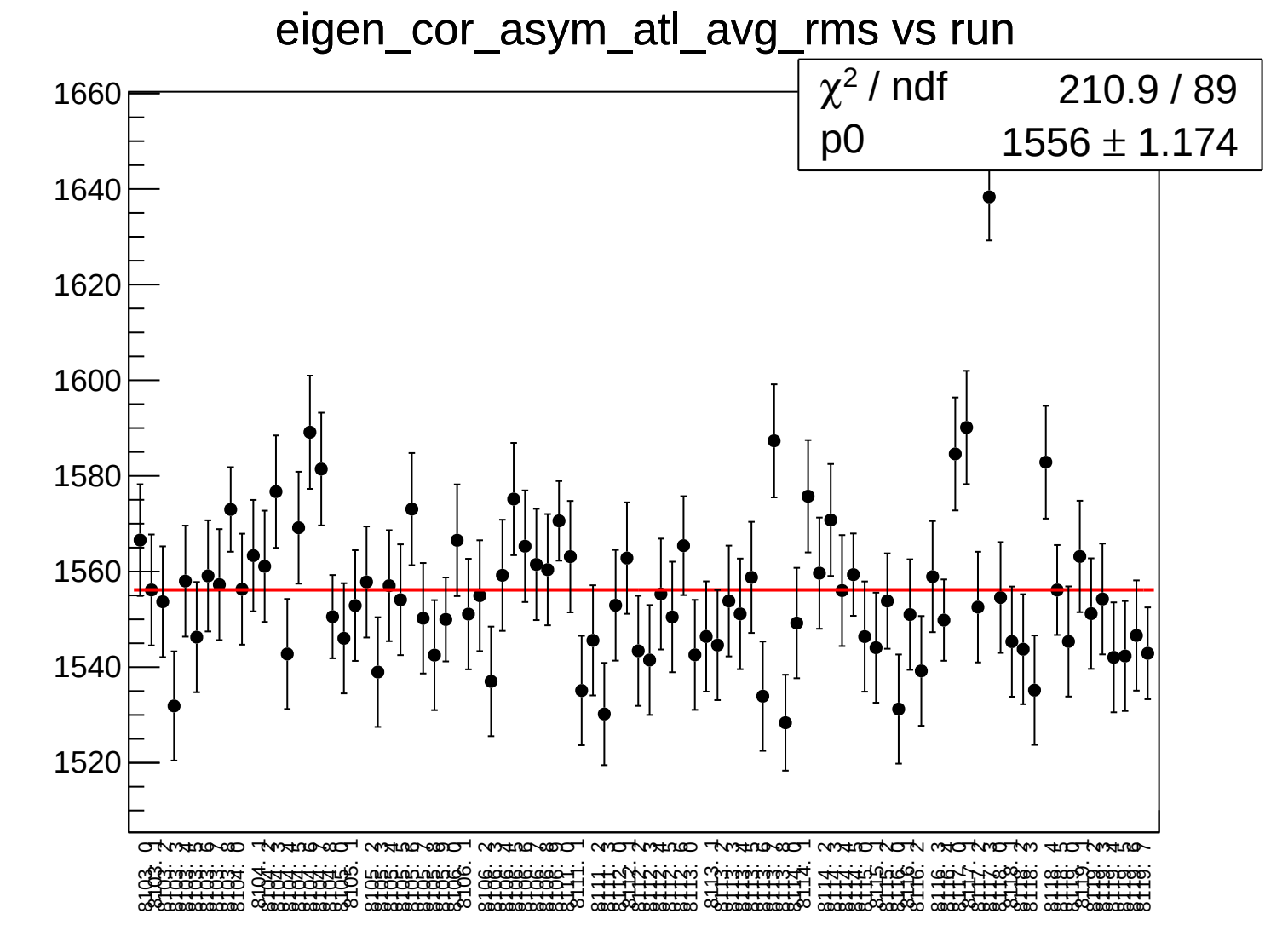

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.27 / 89
p0 3896 ± 3481
100
50
0
−50
−100
−150
pull
Entries 90
Mean −666.4
Std Dev 0
2
1
0
−1
−2
−3

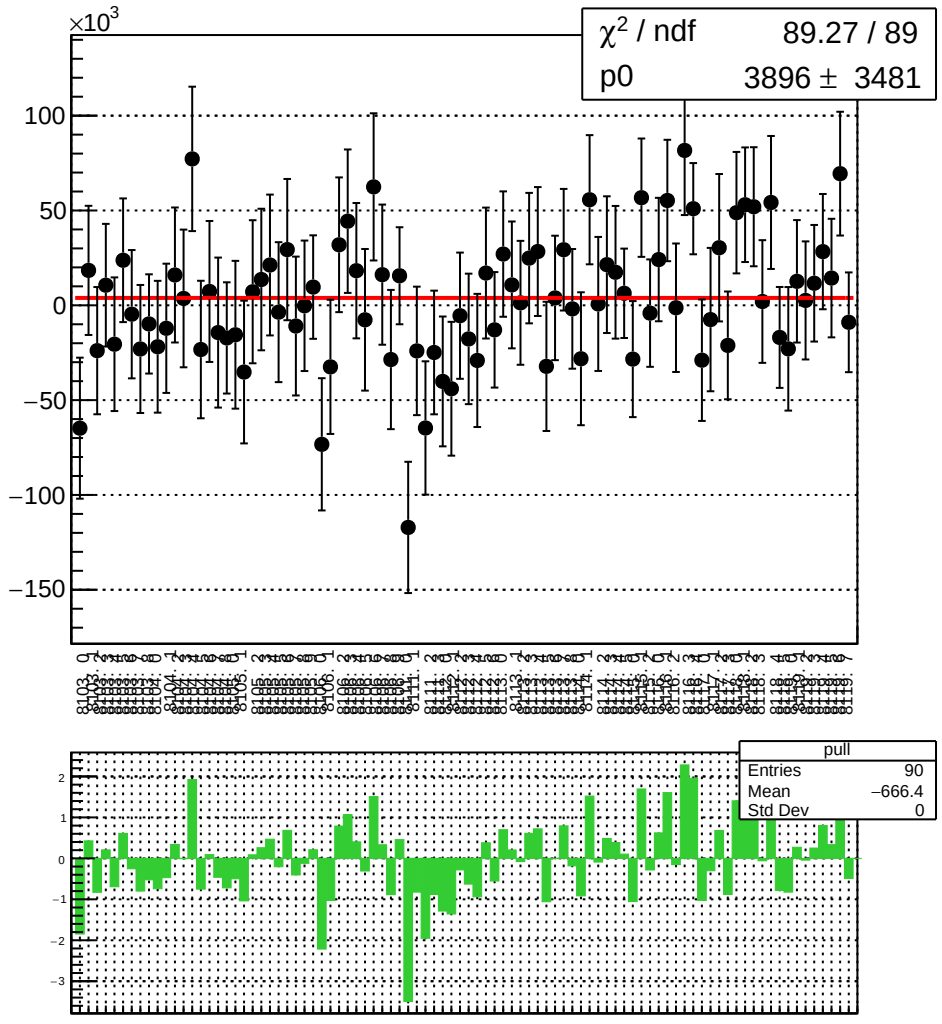

pull1D
Entries 90
Mean −0.01055
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

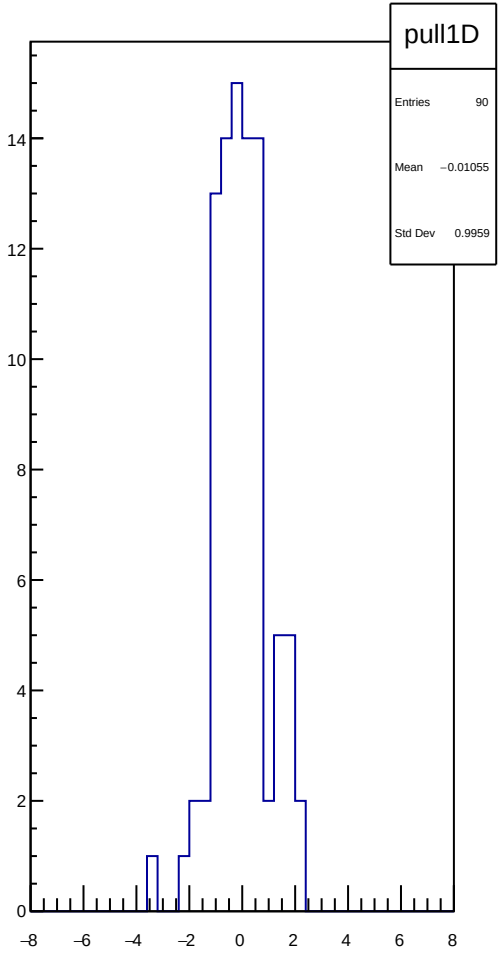

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 7481 / 89
p0 3258 ± 2.462
3800
3600
3400
3200
3000
2800

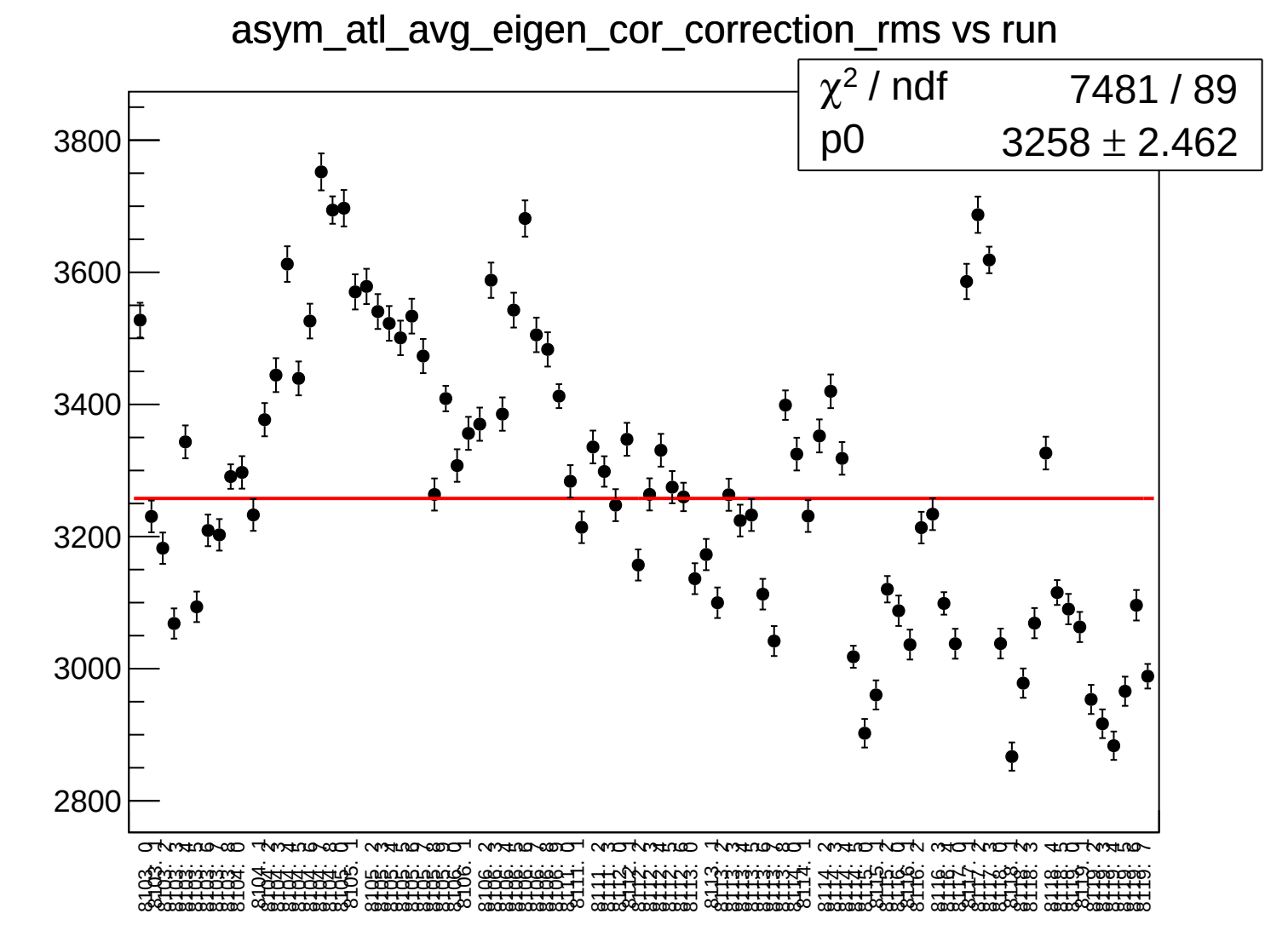

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 100.3 / 89
p0 2244 ± 1660
pull
Entries 90
Mean 92.68
Std Dev 55.33

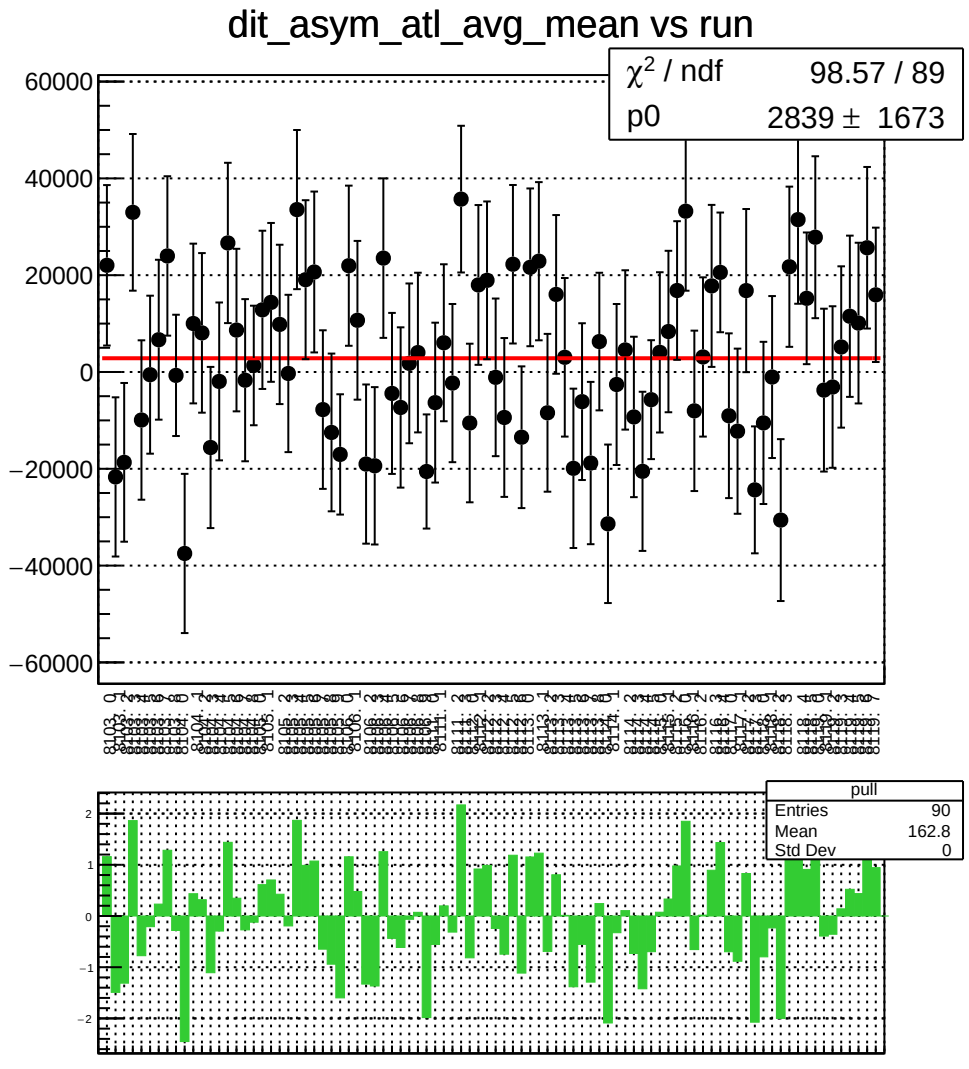

pull1D
Entries 90
Mean 0.01211
Std Dev 1.056

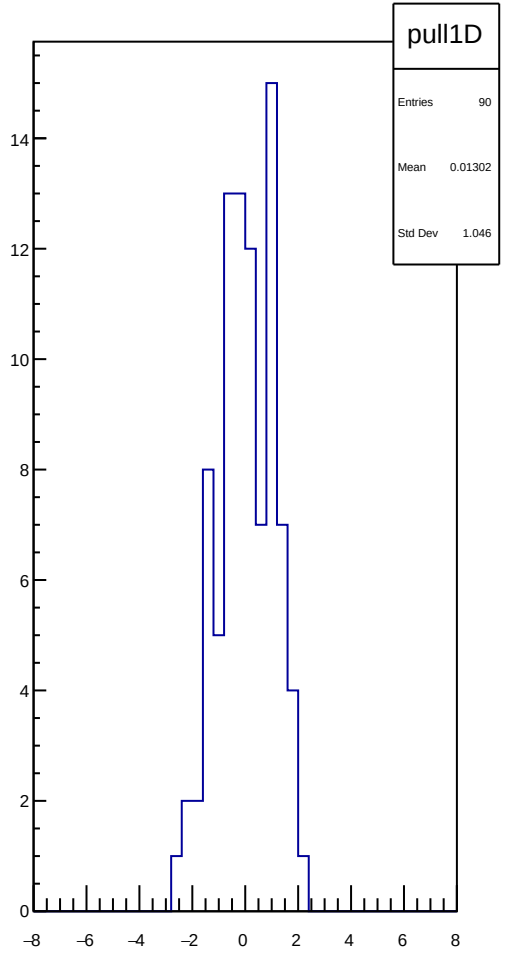

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 210.9 / 89
p0 1556 ± 1.174
1660
1640
1620
1600
1580
1560
1540
1520

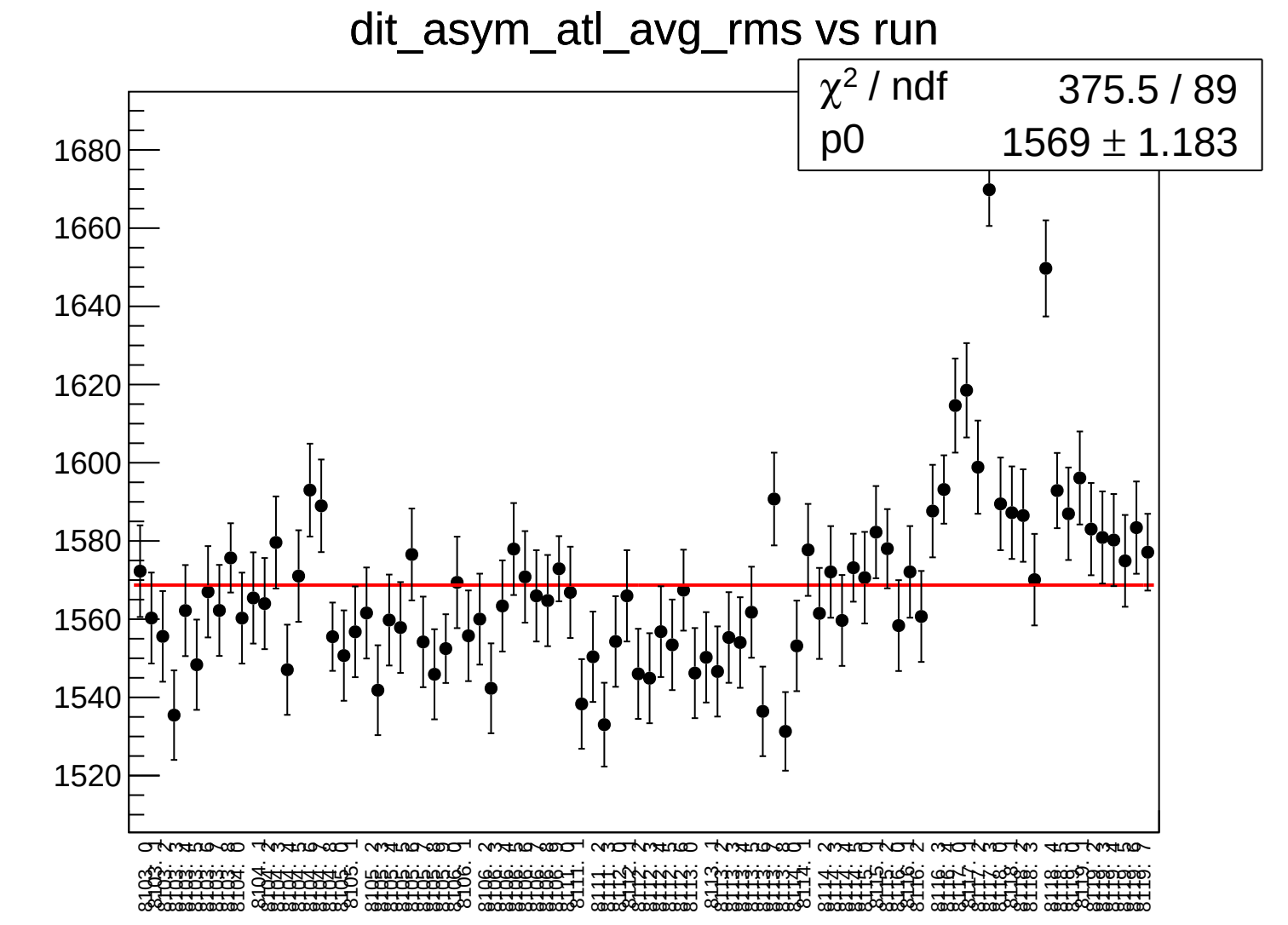

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.27 / 89
p0 3896 ± 3481
100
50
0
−50
−100
−150
pull
Entries 90
Mean −666.4
Std Dev 0
2
1
0
−1
−2
−3

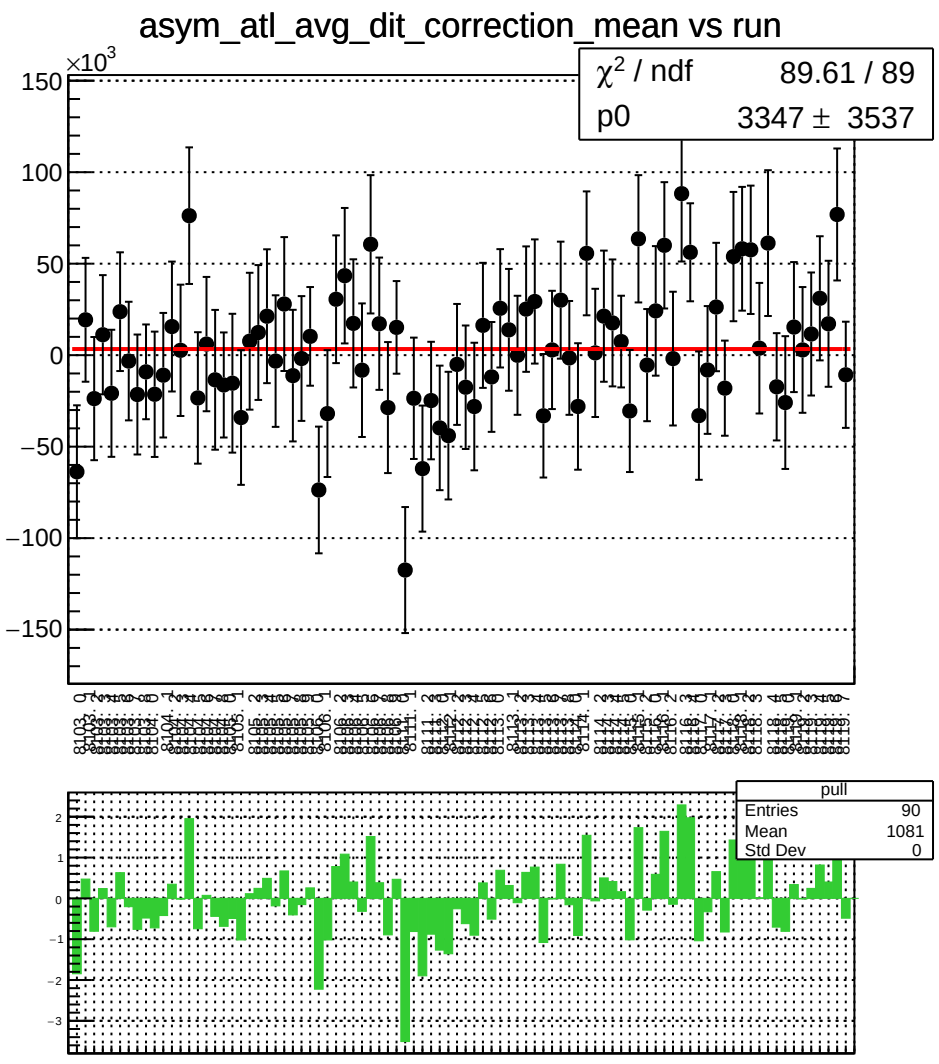

pull1D
Entries 90
Mean −0.01055
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

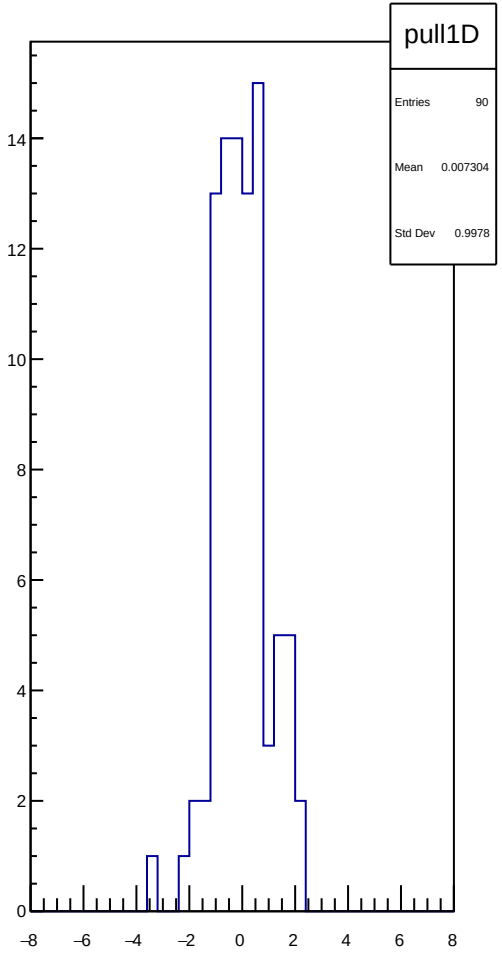

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 7481 / 89
p0 3258 ± 2.462
3800
3600
3400
3200
3000
2800

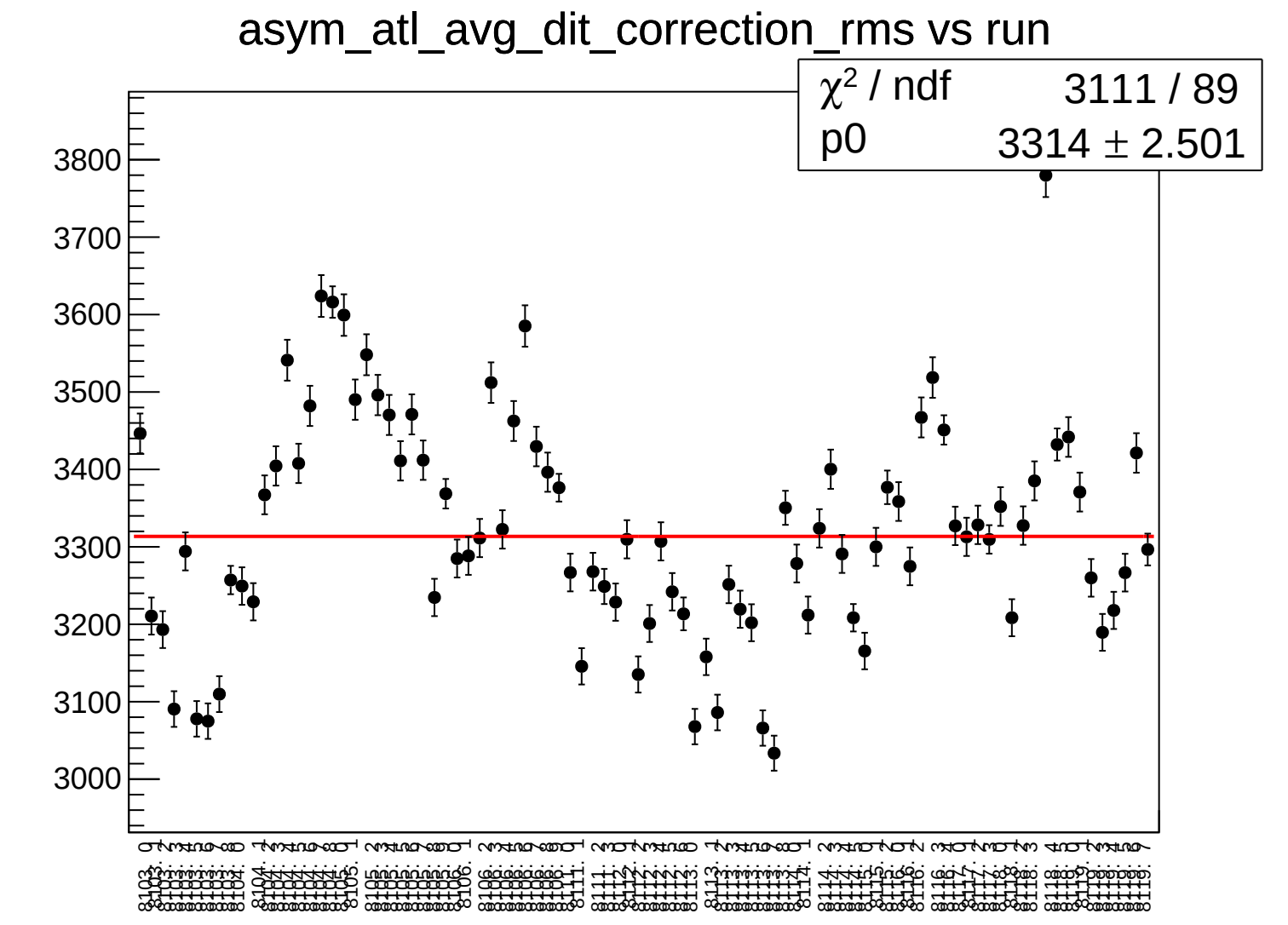

dit_asym_atl_avg_mean vs run
χ² / ndf 98.57 / 89
p0 2839 ± 1673
pull
Entries 90
Mean 162.8
Std Dev 0

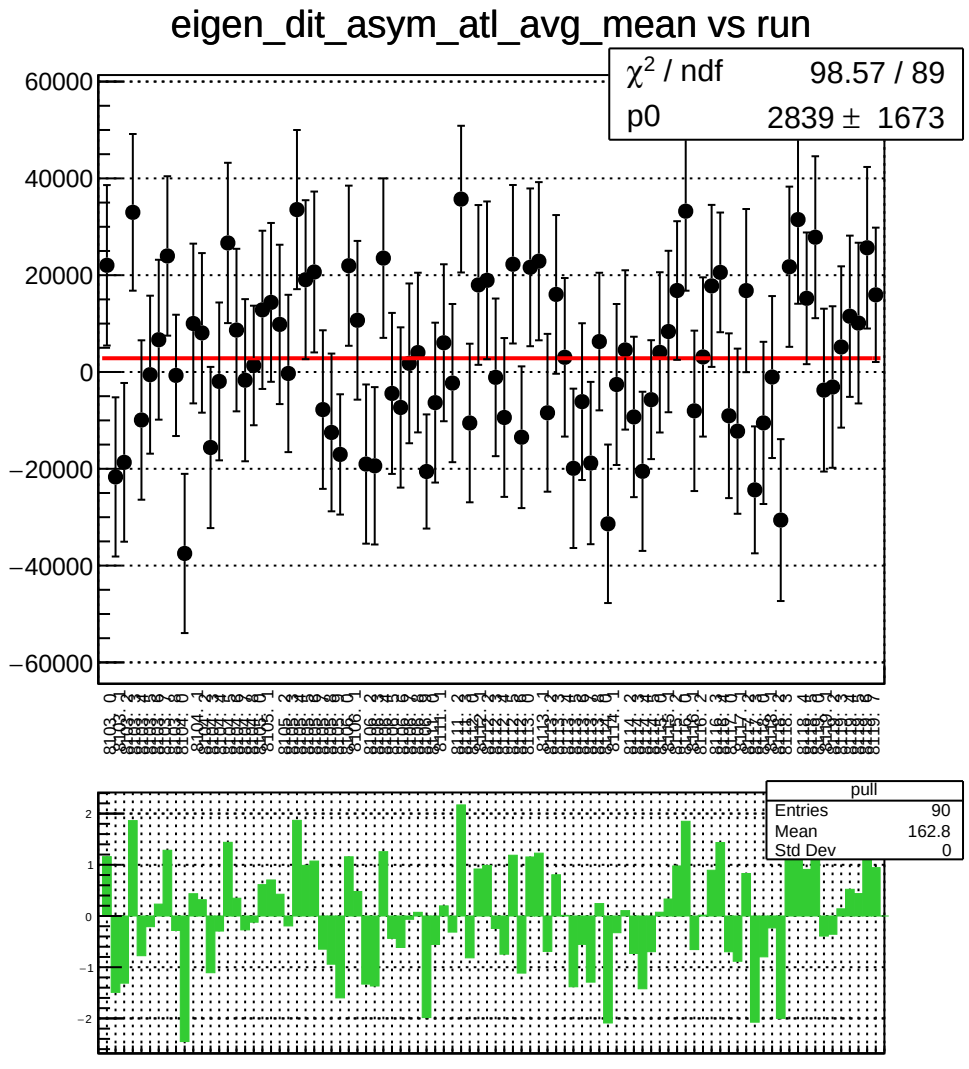

pull1D
Entries 90
Mean 0.01302
Std Dev 1.046

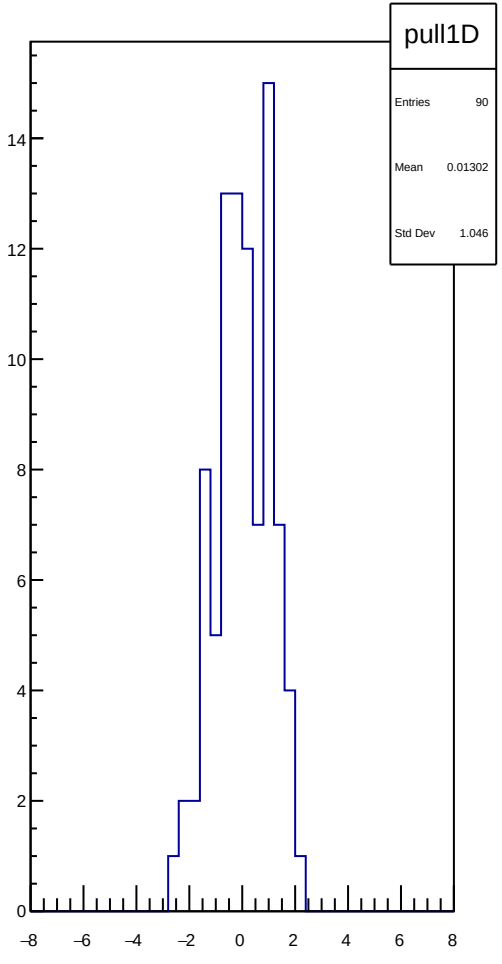

dit_asym_atl_avg_rms vs run
χ² / ndf 375.5 / 89
p0 1569 ± 1.183
1680
1660
1640
1620
1600
1580
1560
1540
1520

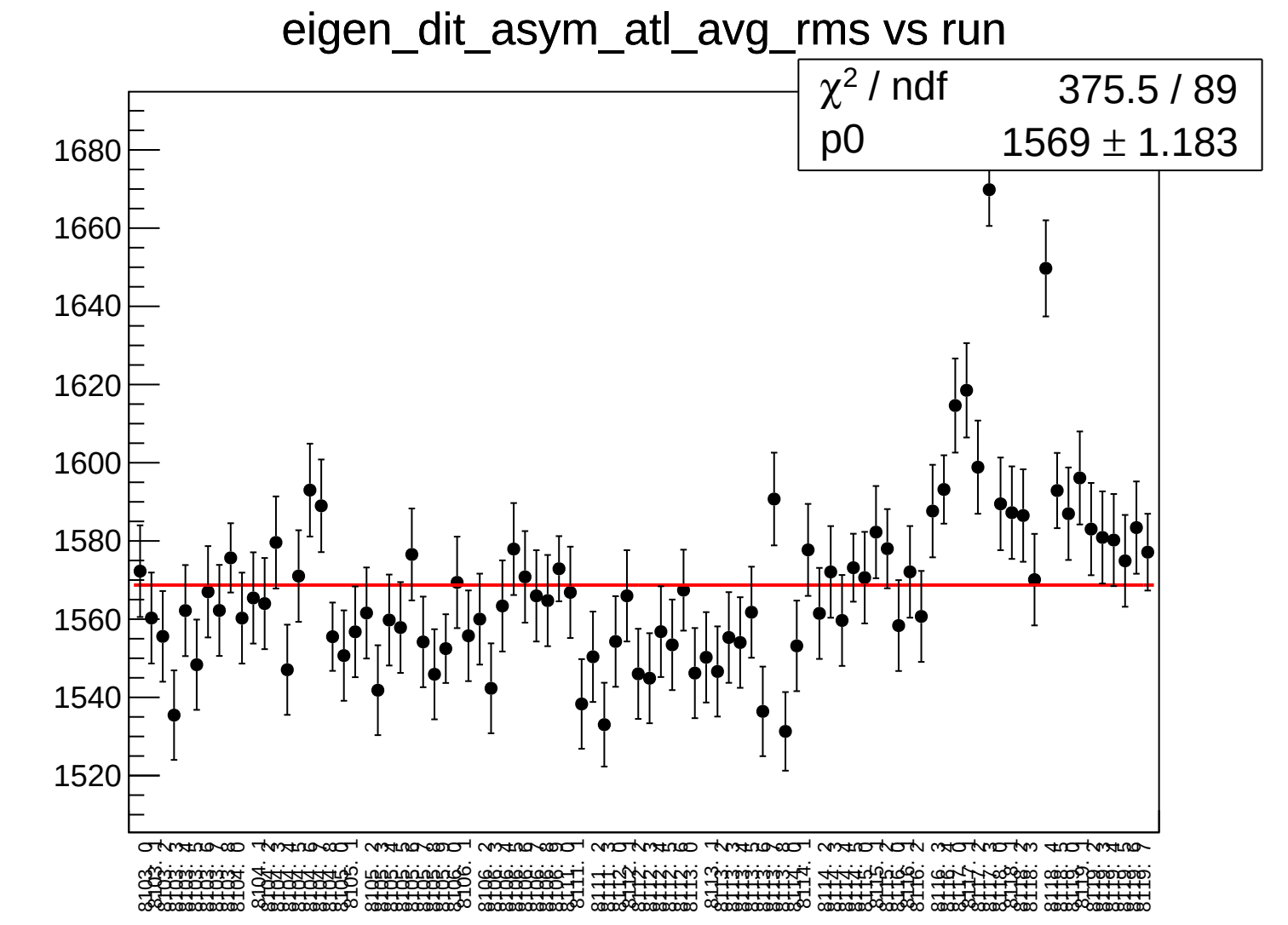

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.61 / 89
p0 3347 ± 3537
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 1081
Std Dev 0
2
1
0
−1
−2
−3

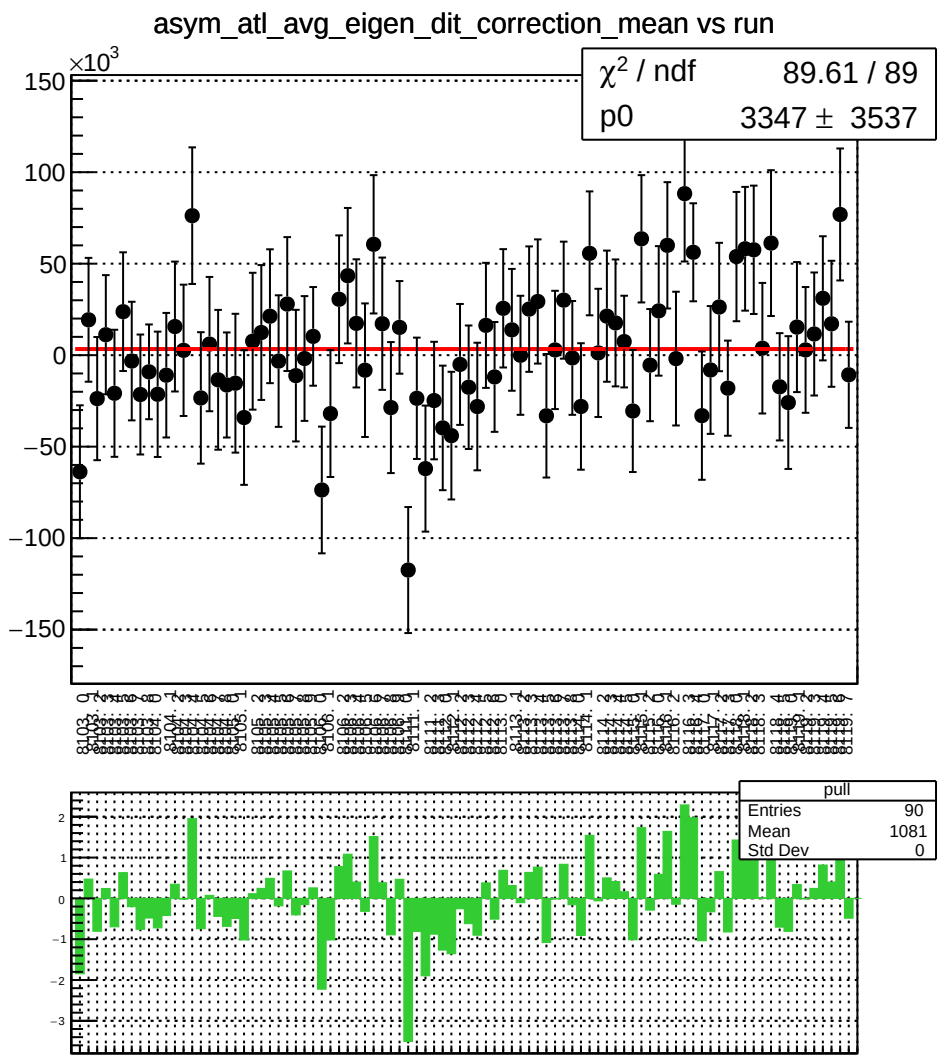

pull1D
Entries 90
Mean 0.007304
Std Dev 0.9978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

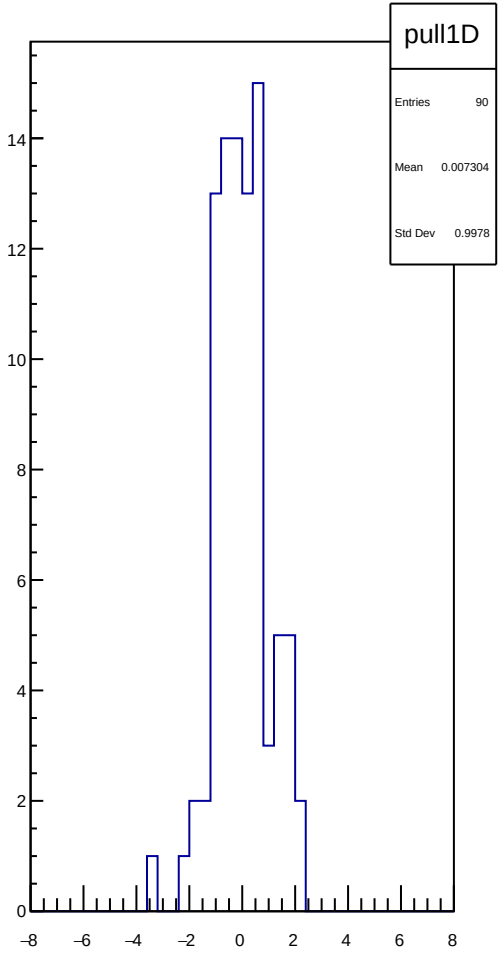

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 3111 / 89
p0 3314 ± 2.501
3800
3700
3600
3500
3400
3300
3200
3100
3000

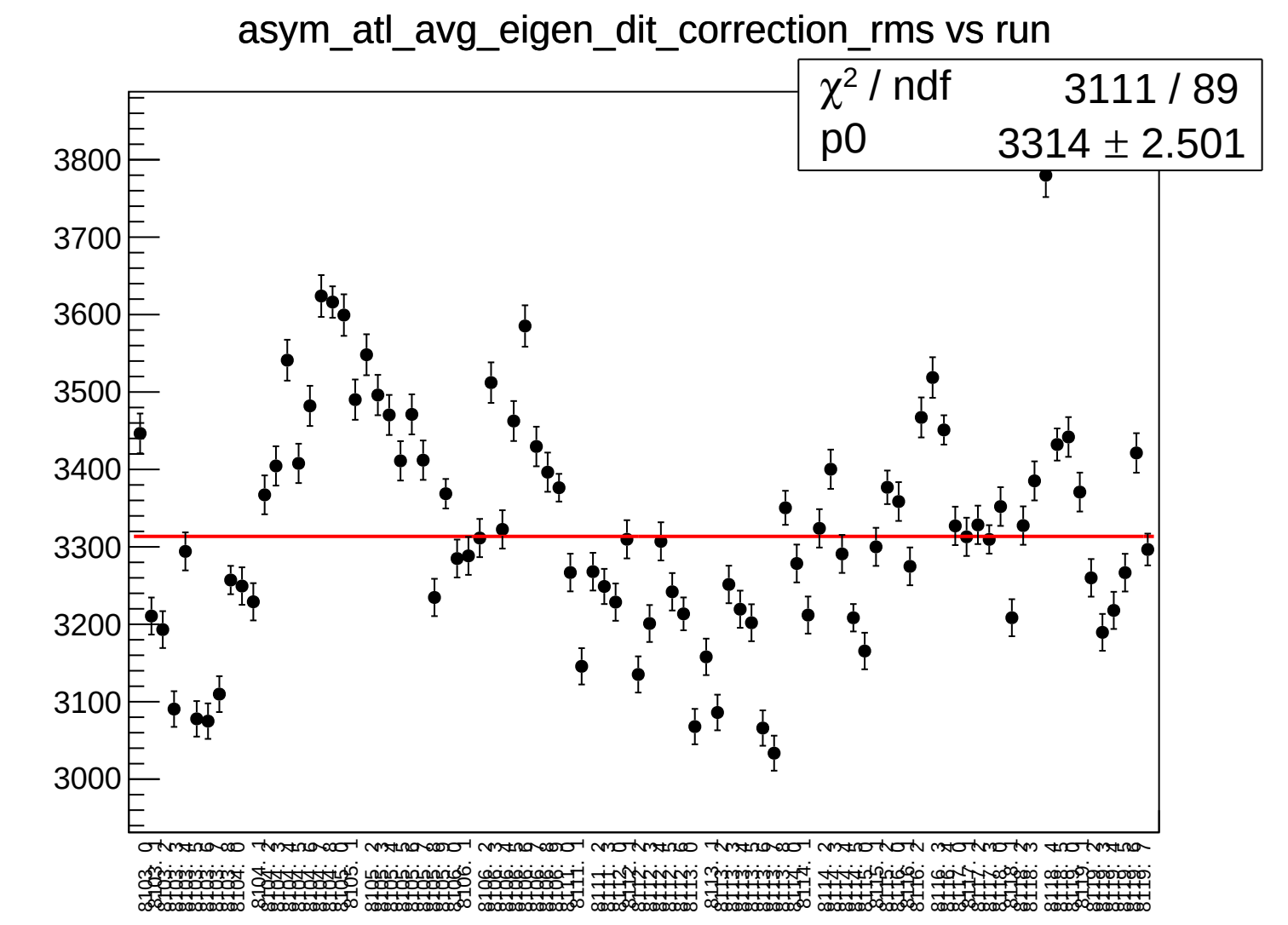

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 98.57 / 89
p0 2839 ± 1673
pull
Entries 90
Mean 162.8
Std Dev 0

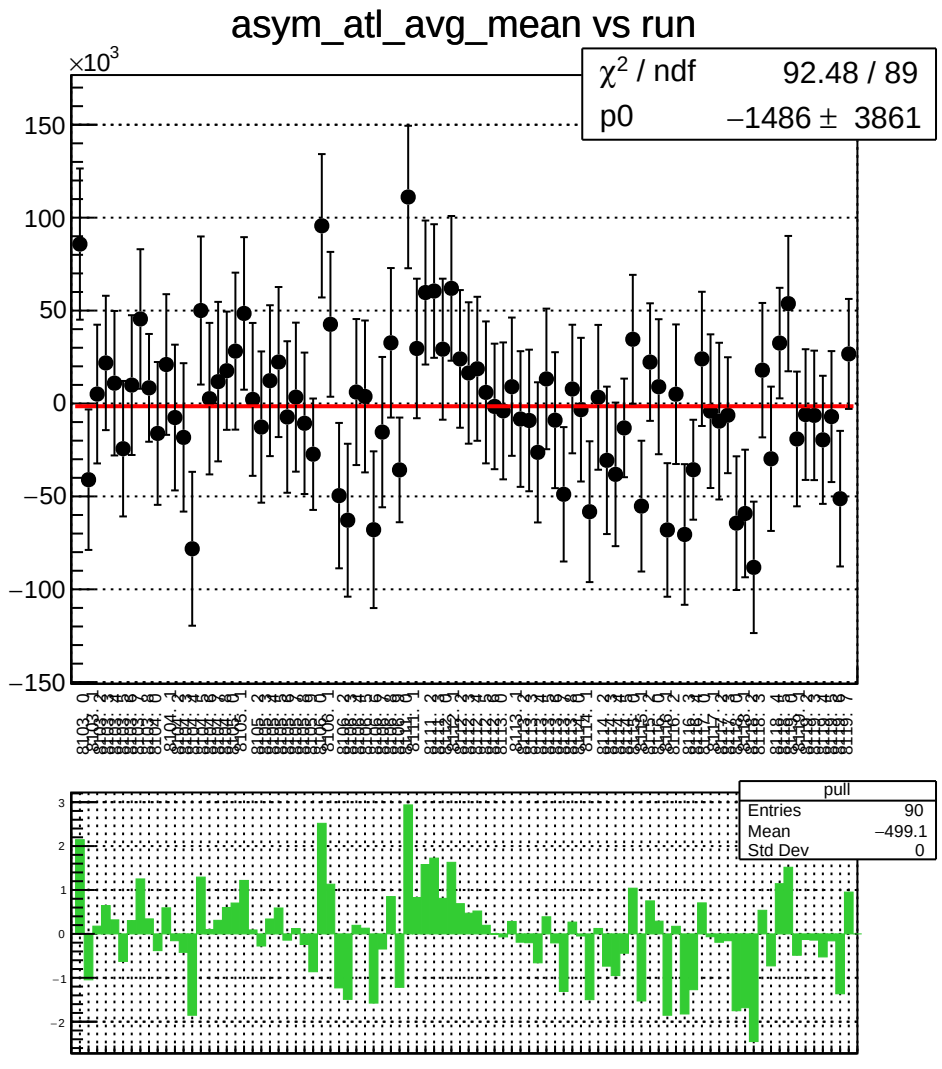

pull1D
Entries 90
Mean 0.01302
Std Dev 1.046

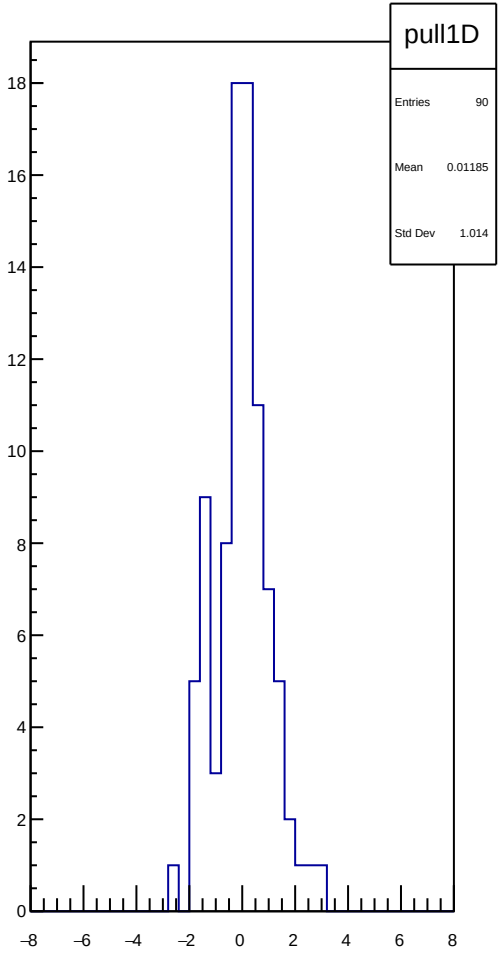

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 375.5 / 89
p0 1569 ± 1.183
1680
1660
1640
1620
1600
1580
1560
1540
1520

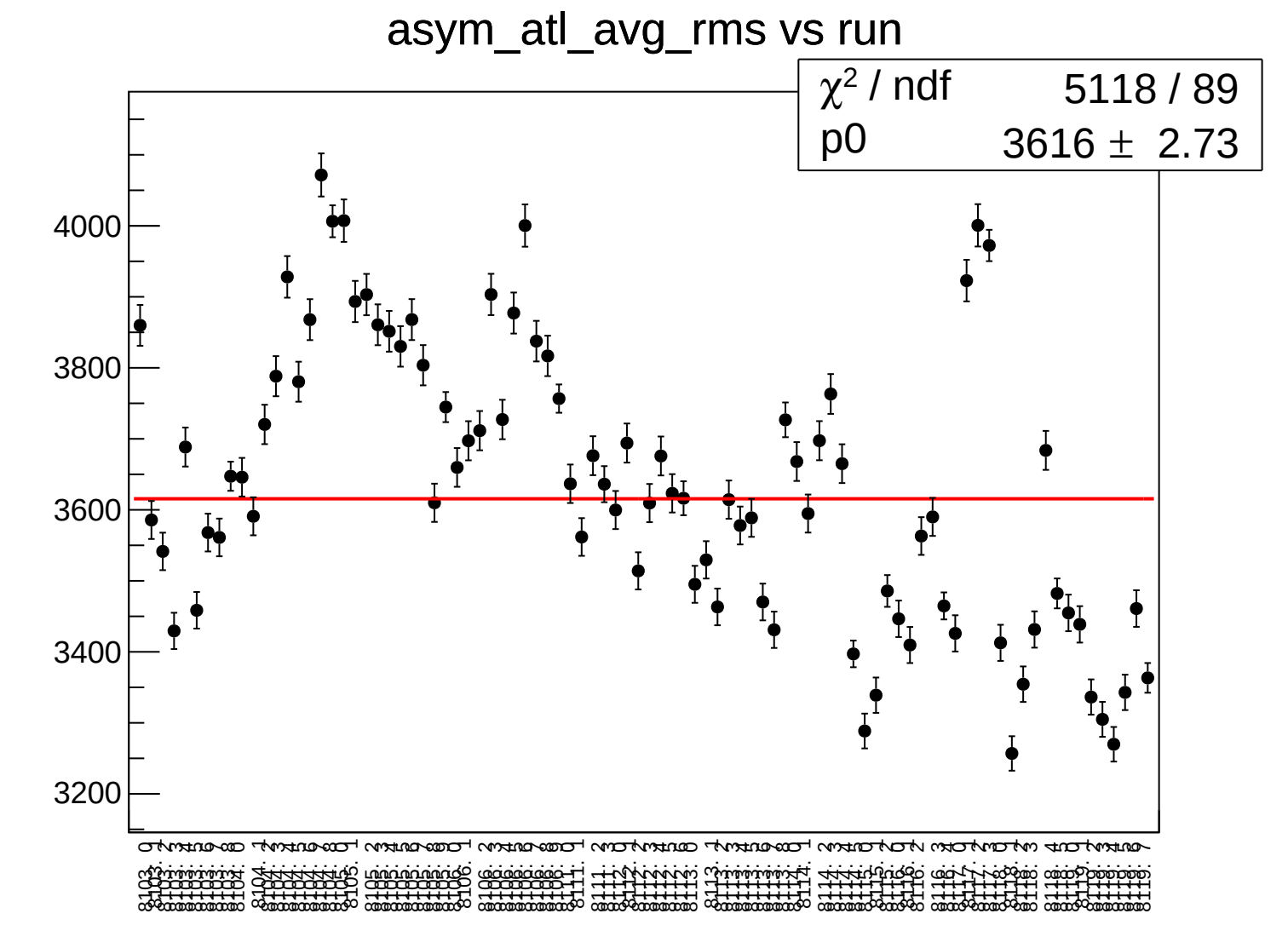

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.61 / 89
p0 3347 ± 3537
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 1081
Std Dev 0
2
1
0
−1
−2
−3

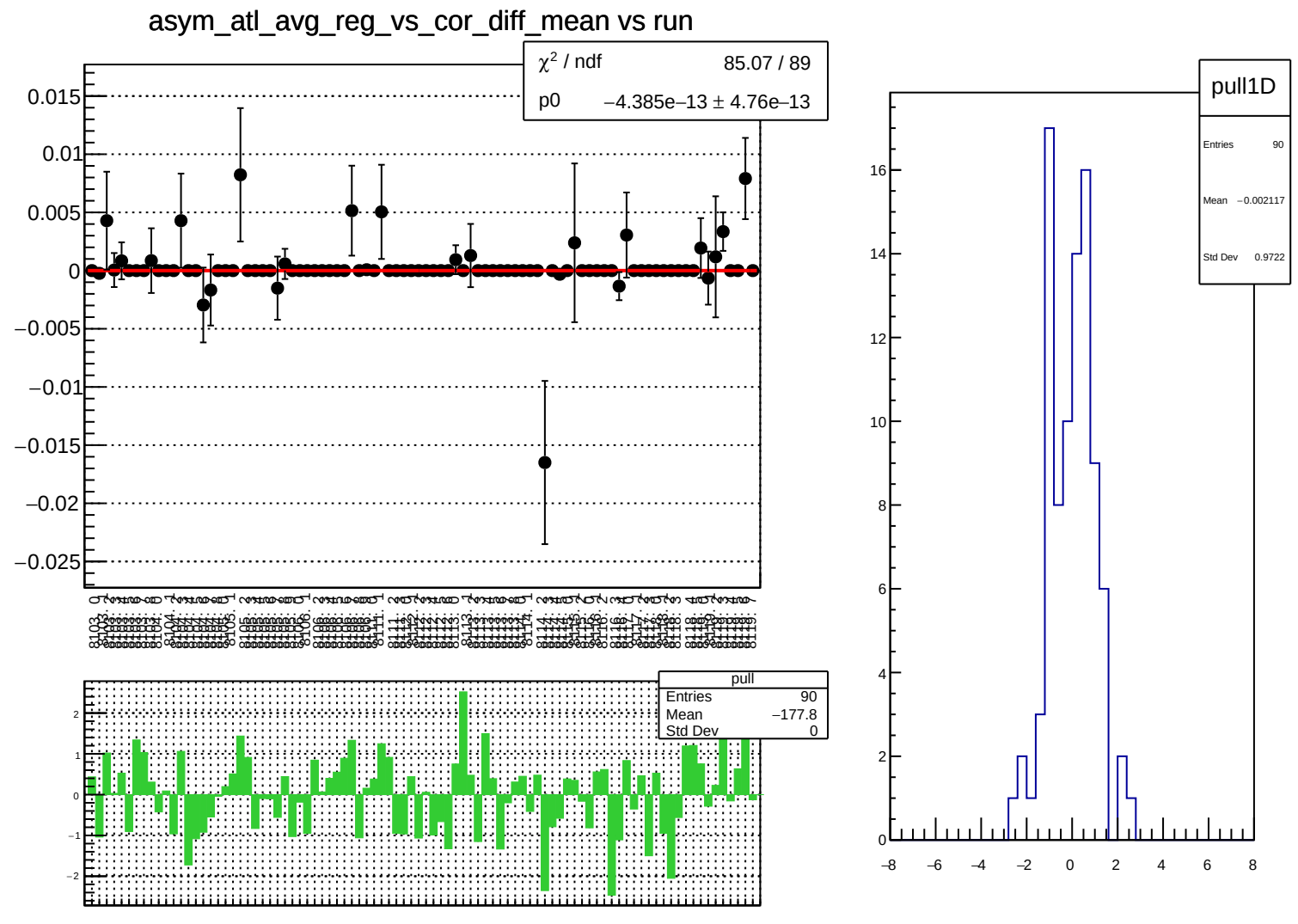

pull1D
Entries 90
Mean 0.007304
Std Dev 0.9978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

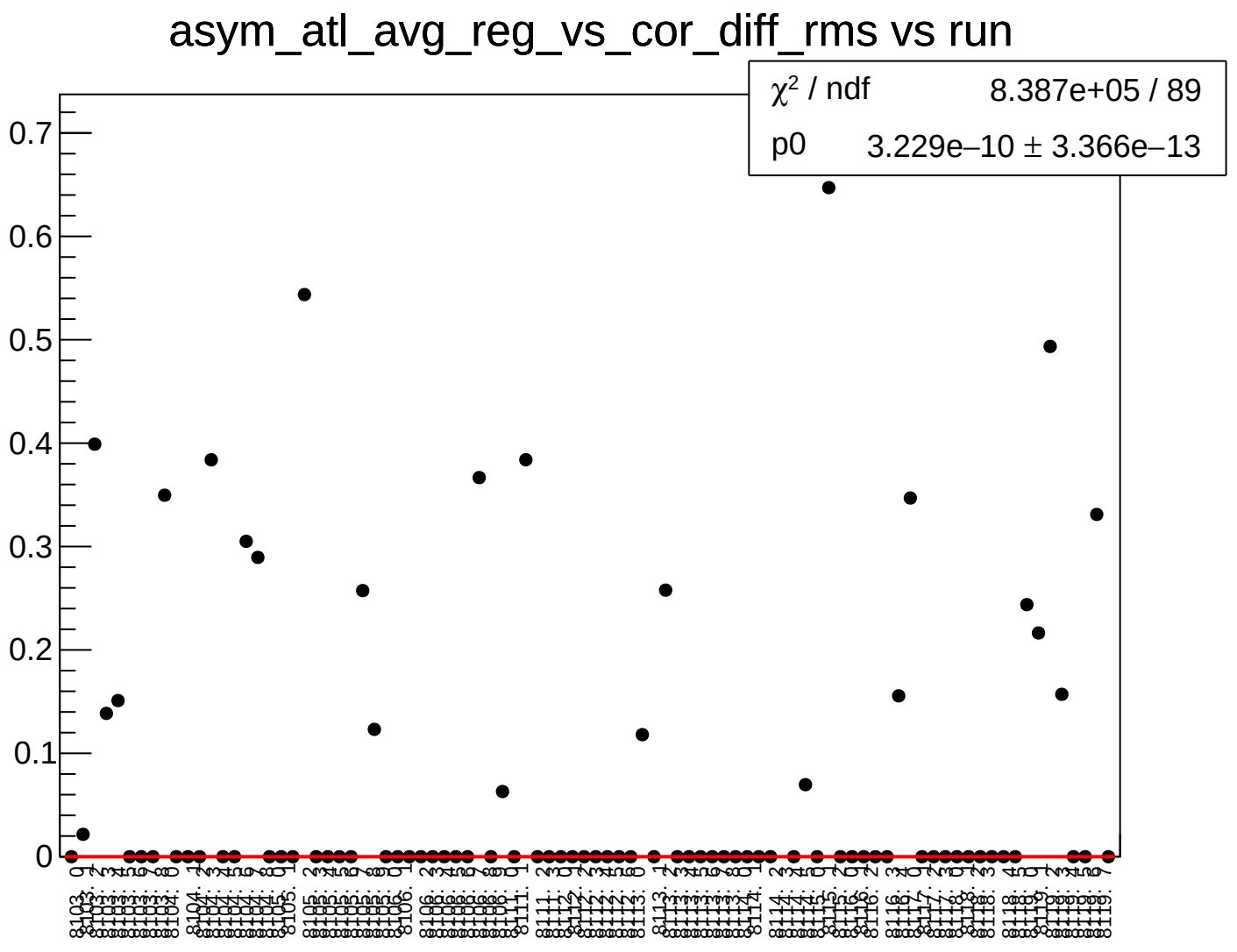

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 3111 / 89
p0 3314 ± 2.501
3800
3700
3600
3500
3400
3300
3200
3100
3000

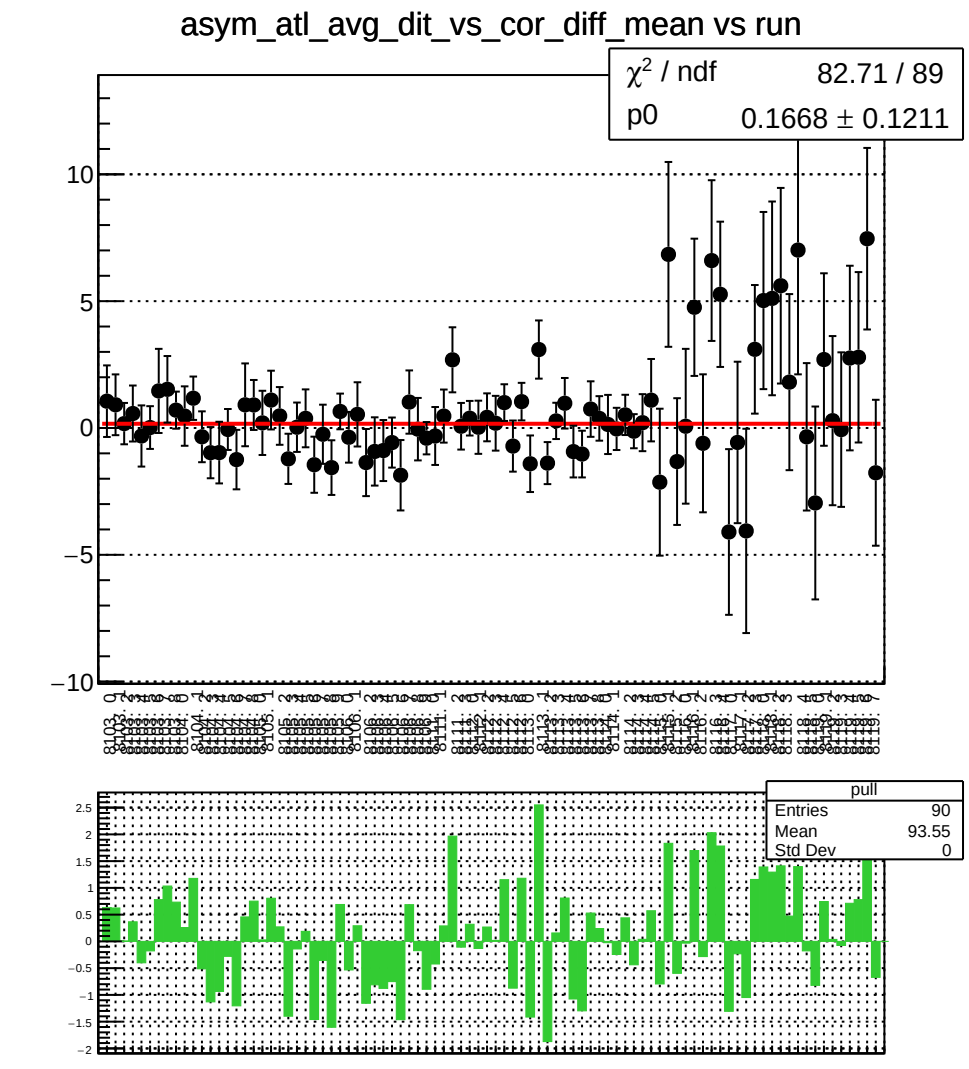

asym_atl_avg_mean vs run
×10^3
χ² / ndf 92.48 / 89
p0 −1486 ± 3861
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −499.1
Std Dev 0
3
2
1
0
−1
−2

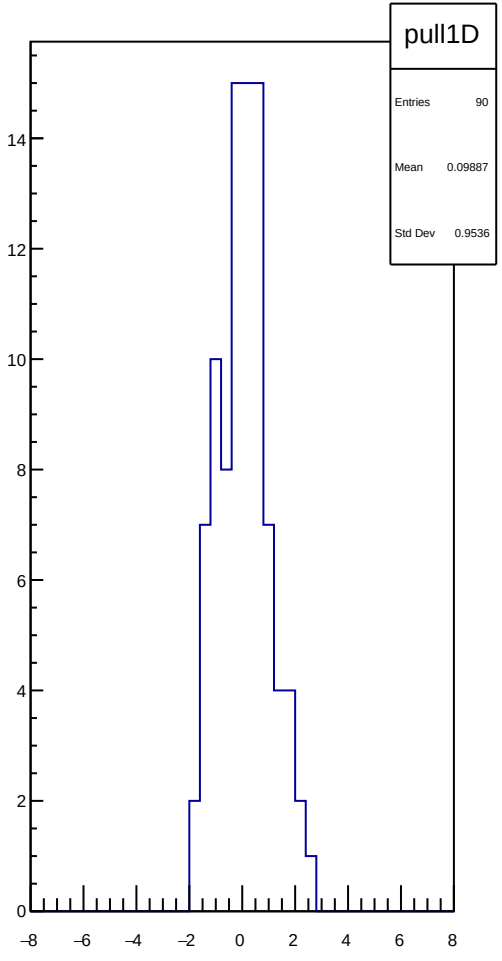

pull1D
Entries 90
Mean 0.01185
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

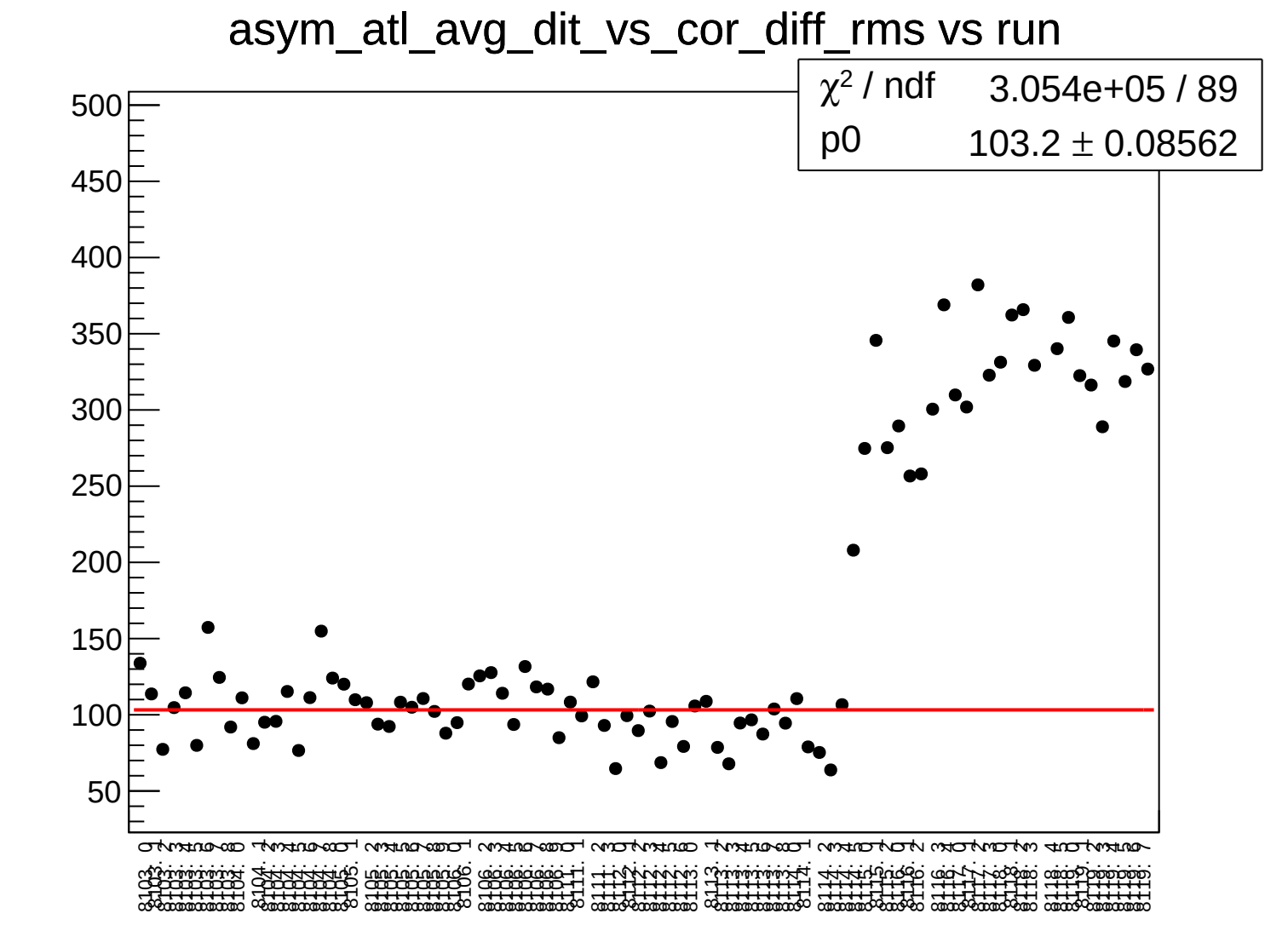

asym_atl_avg_rms vs run
χ² / ndf 5118 / 89
p0 3616 ± 2.73
4000
3800
3600
3400
3200

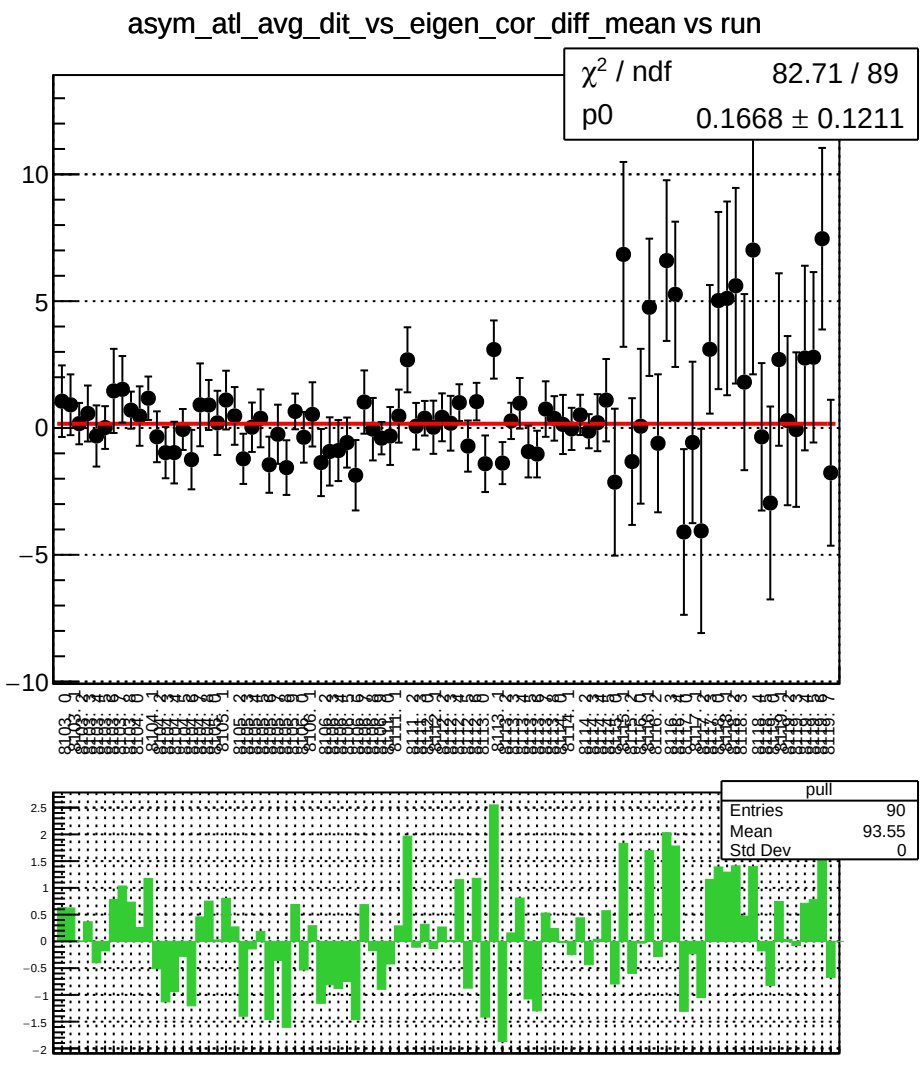

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.07 / 89
p0 −4.385e−13 ± 4.76e−13
pull
Entries 90
Mean −177.8
Std Dev 0
pull1D
Entries 90
Mean −0.002117
Std Dev 0.9722

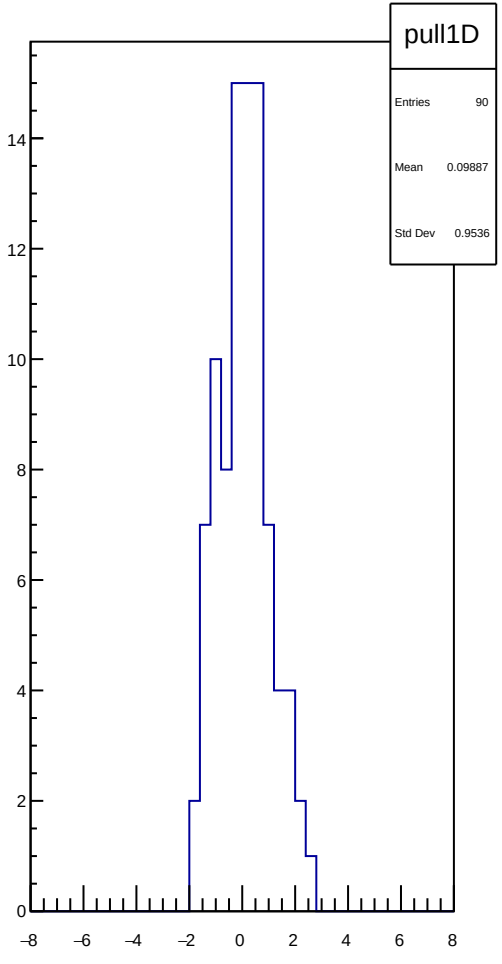

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.387e+05 / 89
p0 3.229e−10 ± 3.366e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

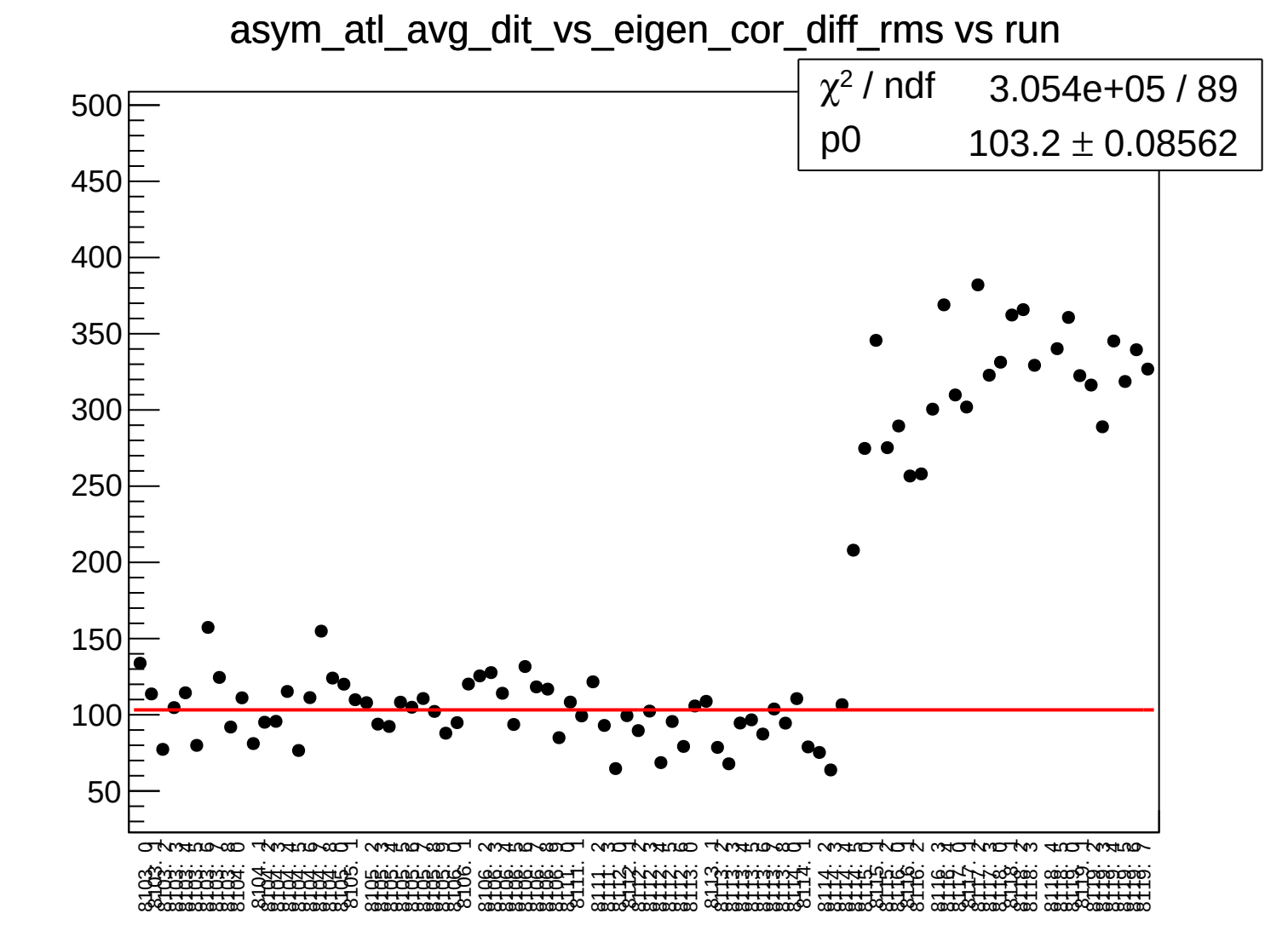

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.71 / 89
p0 0.1668 ± 0.1211
pull
Entries 90
Mean 93.55
Std Dev 0

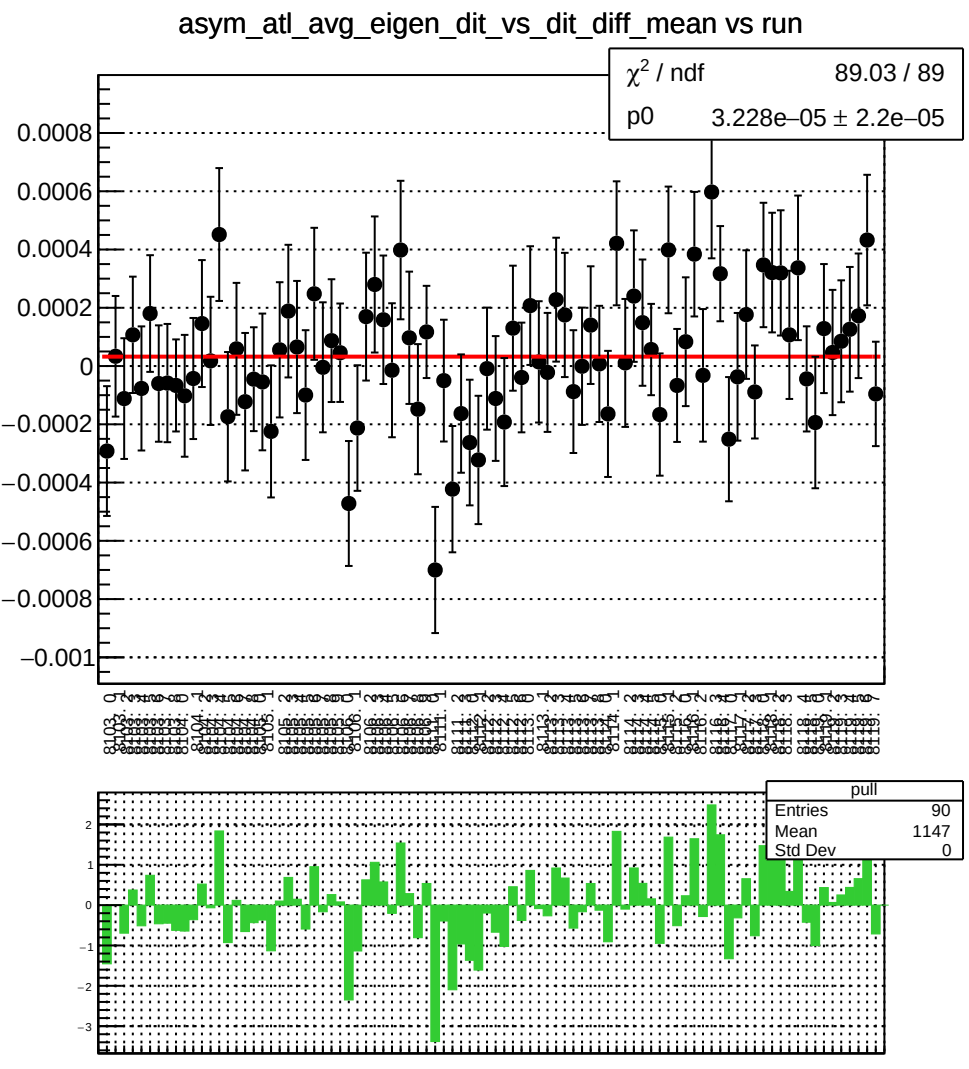

pull1D
Entries 90
Mean 0.09887
Std Dev 0.9536

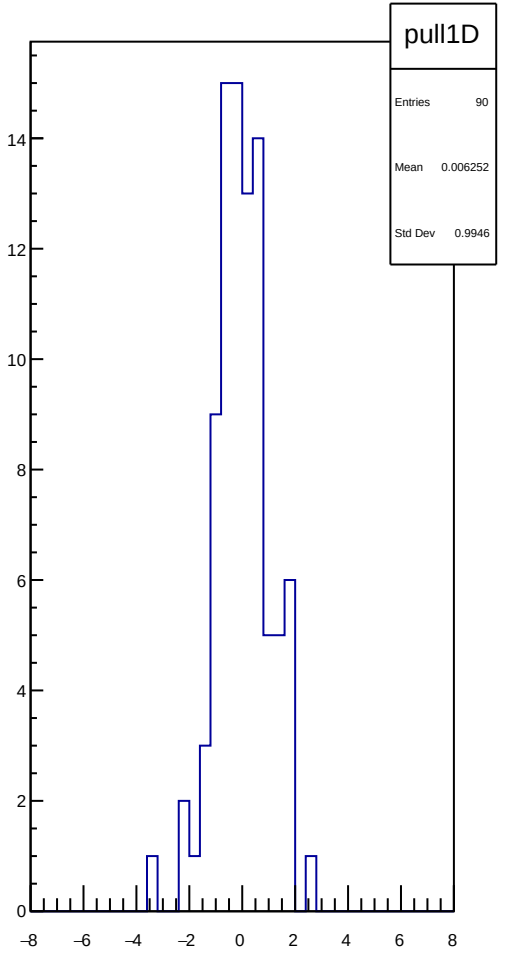

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.054e+05 / 89
p0 103.2 ± 0.08562
500
450
400
350
300
250
200
150
100
50

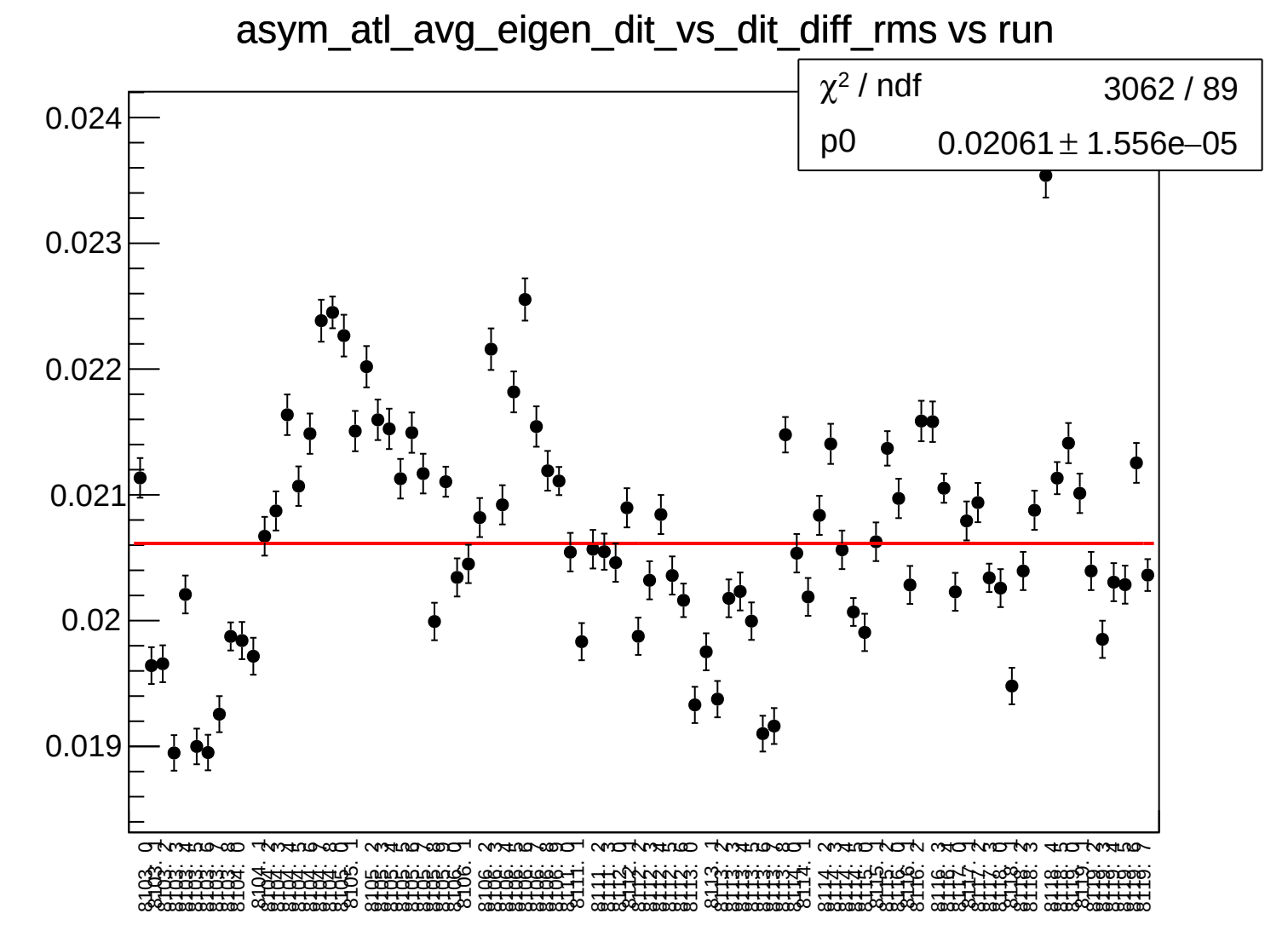

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.71 / 89
p0 0.1668 ± 0.1211
pull
Entries 90
Mean 93.55
Std Dev 0

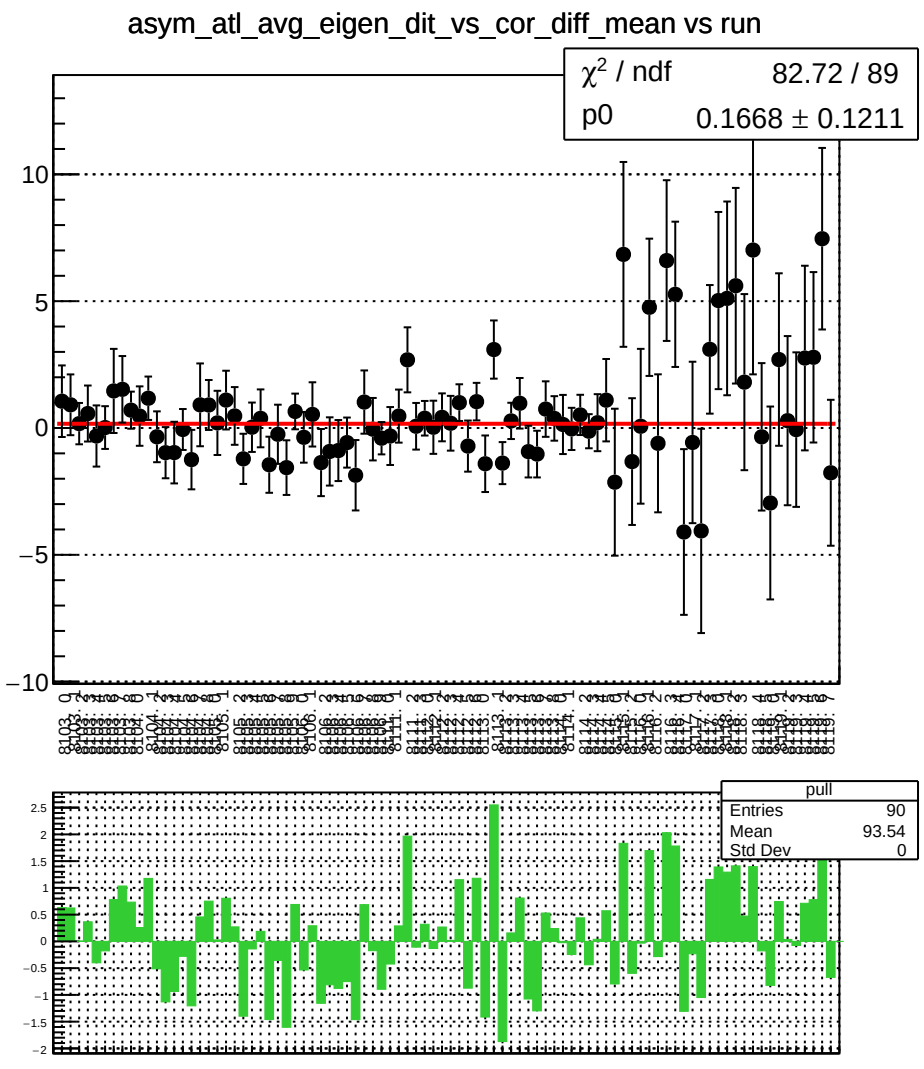

pull1D
Entries 90
Mean 0.09887
Std Dev 0.9536

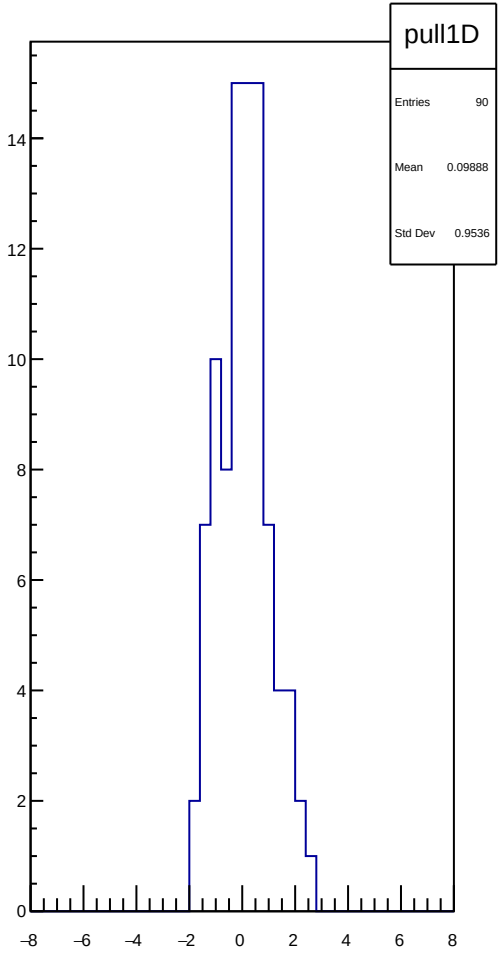

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.054e+05 / 89
p0 103.2 ± 0.08562
500
450
400
350
300
250
200
150
100
50

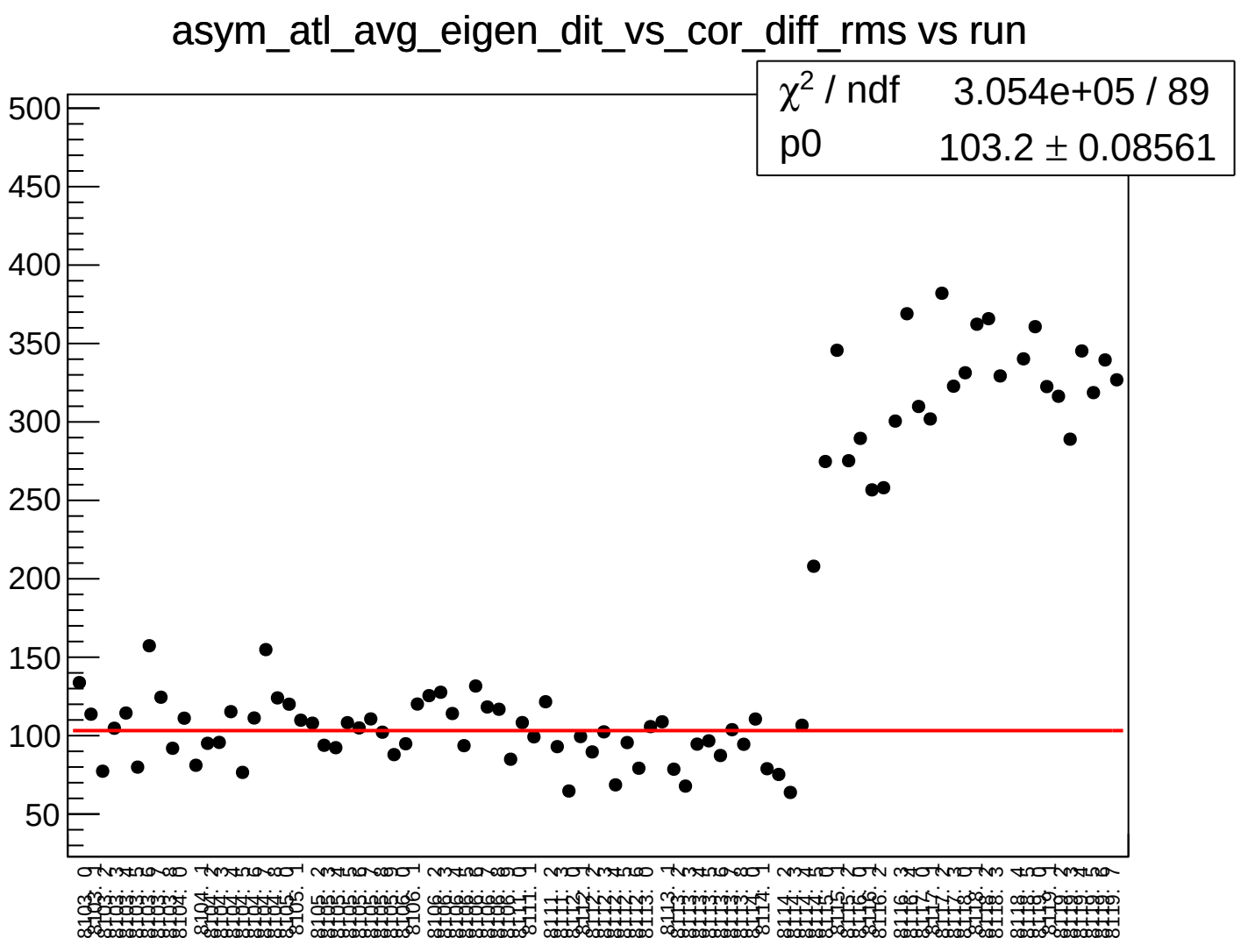

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.03 / 89
p0 3.228e−05 ± 2.2e−05
pull
Entries 90
Mean 1147
Std Dev 0

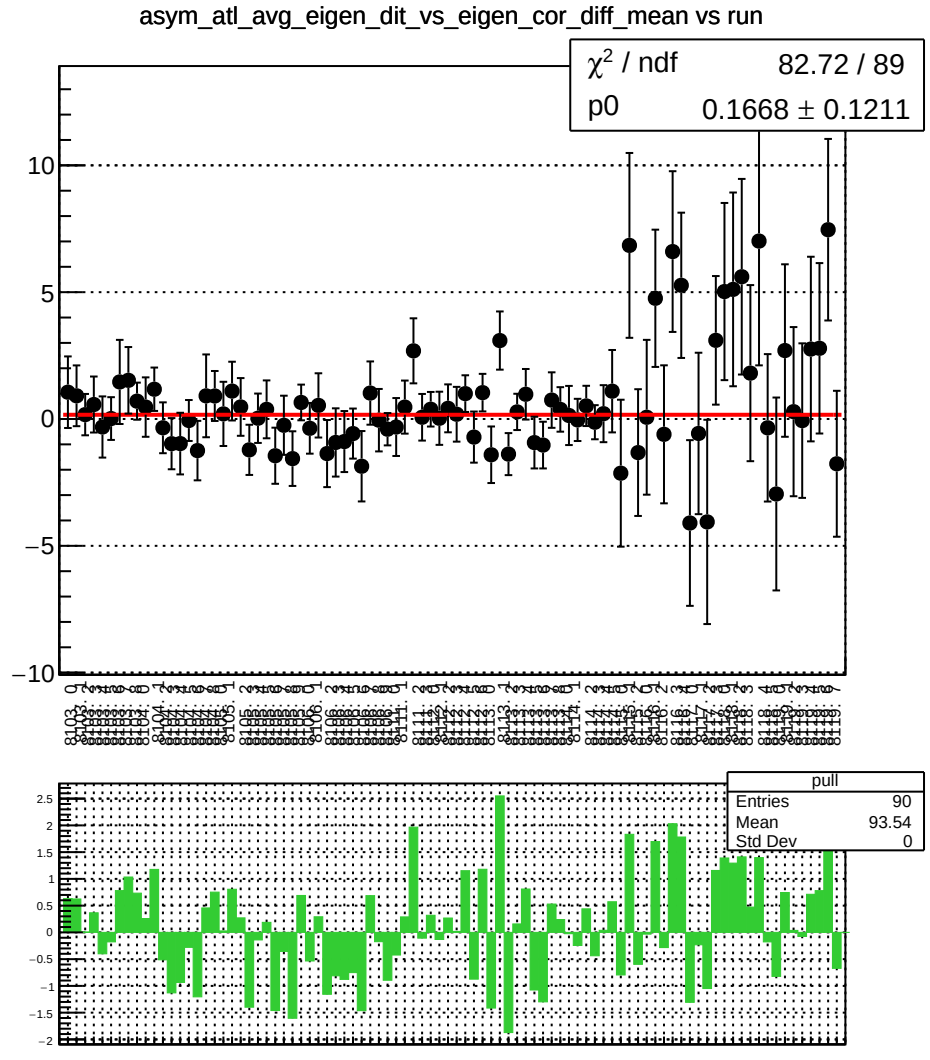

pull1D
Entries 90
Mean 0.006252
Std Dev 0.9946

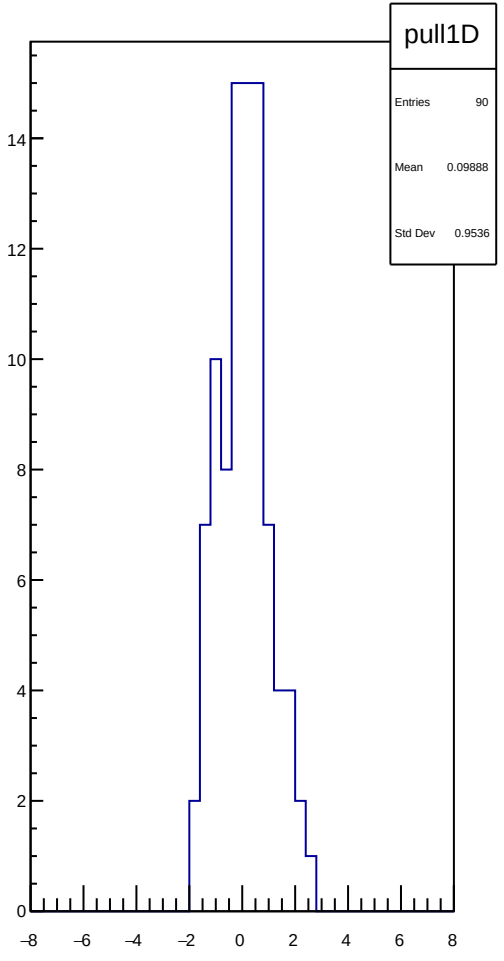

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3062 / 89
p0 0.02061 ± 1.556e−05
0.024
0.023
0.022
0.021
0.02
0.019

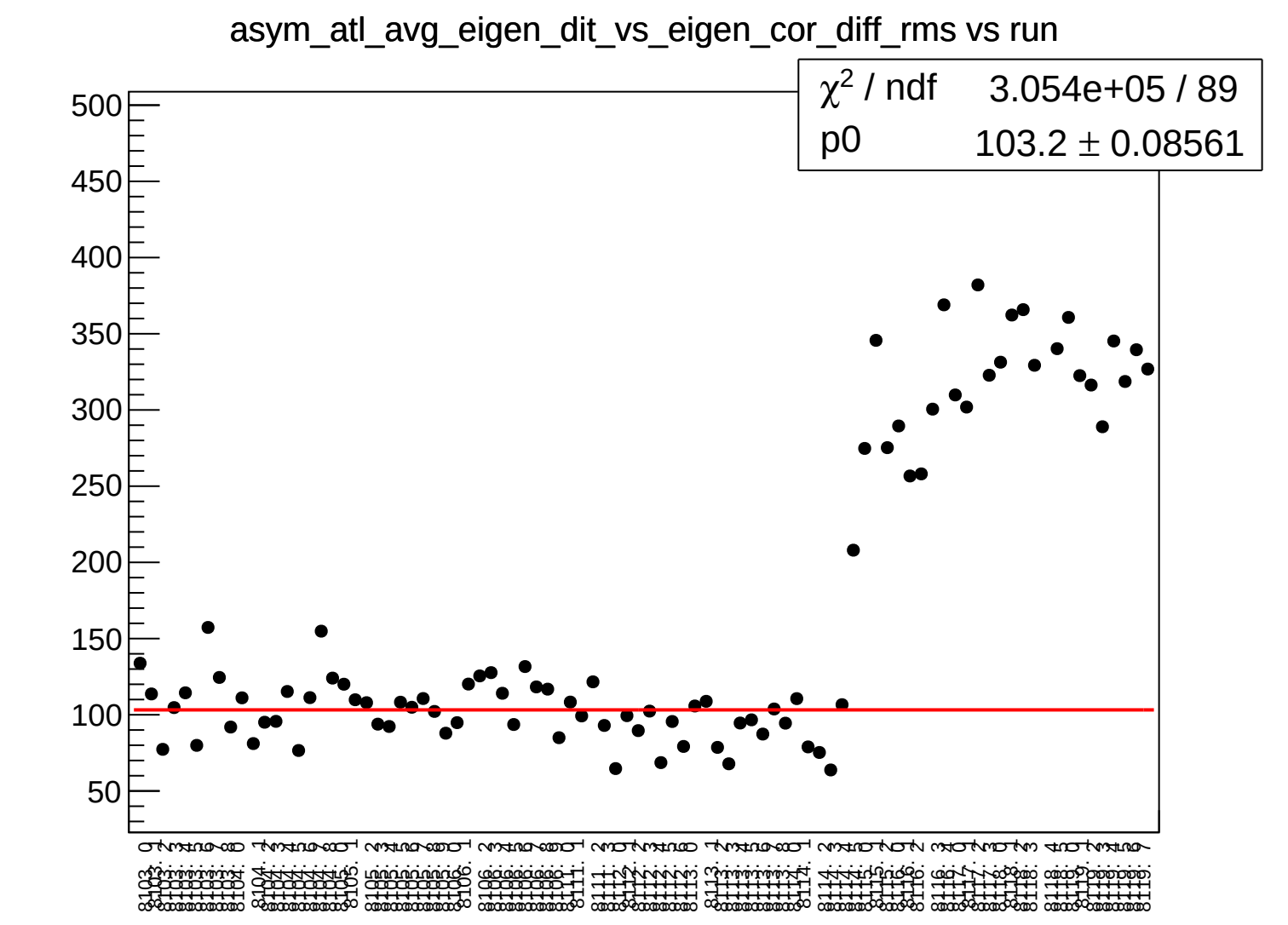

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.72 / 89
p0 0.1668 ± 0.1211
pull
Entries 90
Mean 93.54
Std Dev 0

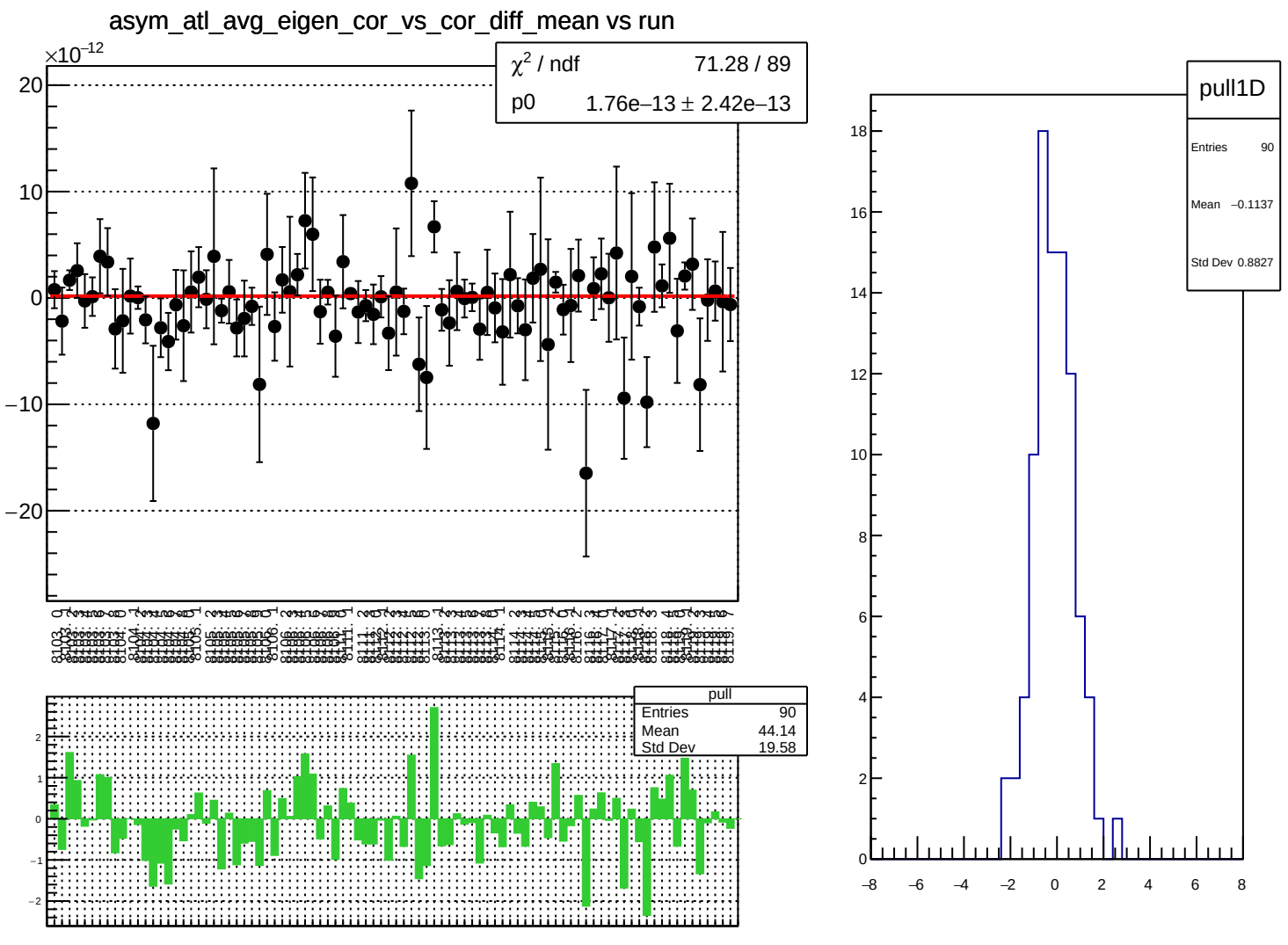

pull1D
Entries 90
Mean 0.09888
Std Dev 0.9536

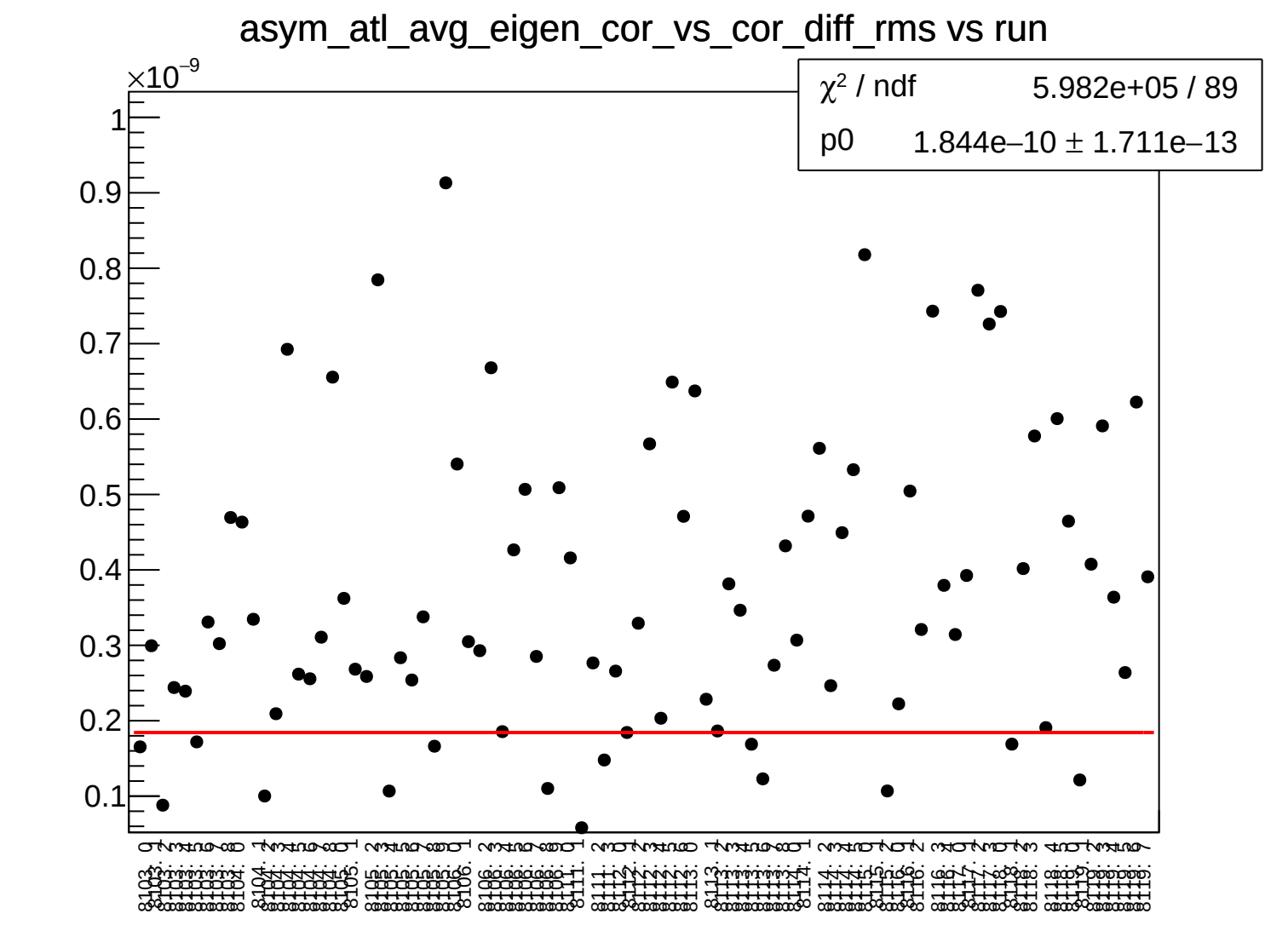

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.054e+05 / 89
p0 103.2 ± 0.08561
500
450
400
350
300
250
200
150
100
50

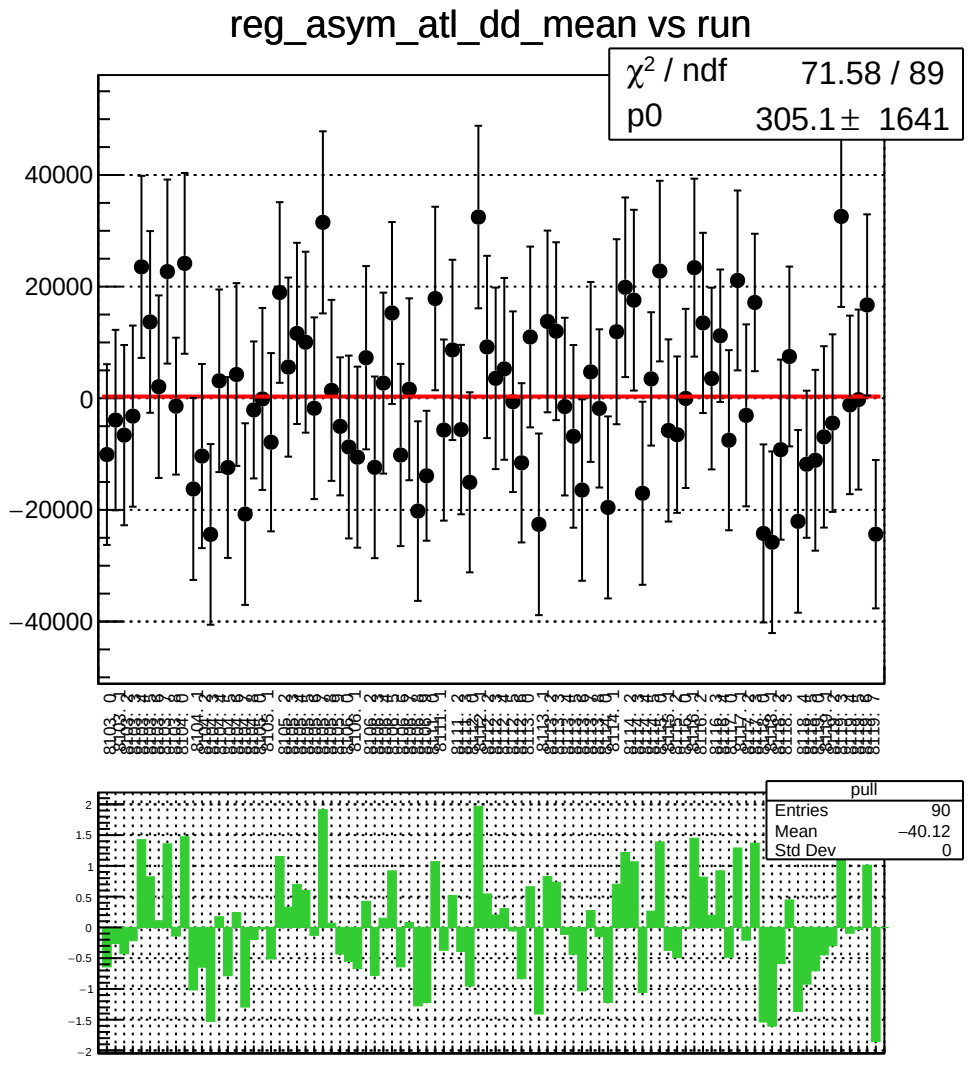

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.72 / 89
p0 0.1668 ± 0.1211
pull
Entries 90
Mean 93.54
Std Dev 0

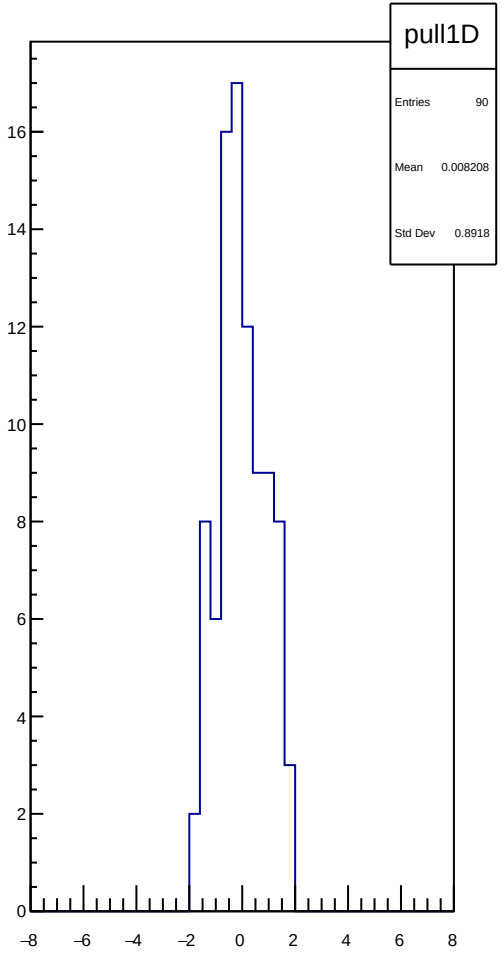

pull1D
Entries 90
Mean 0.09888
Std Dev 0.9536

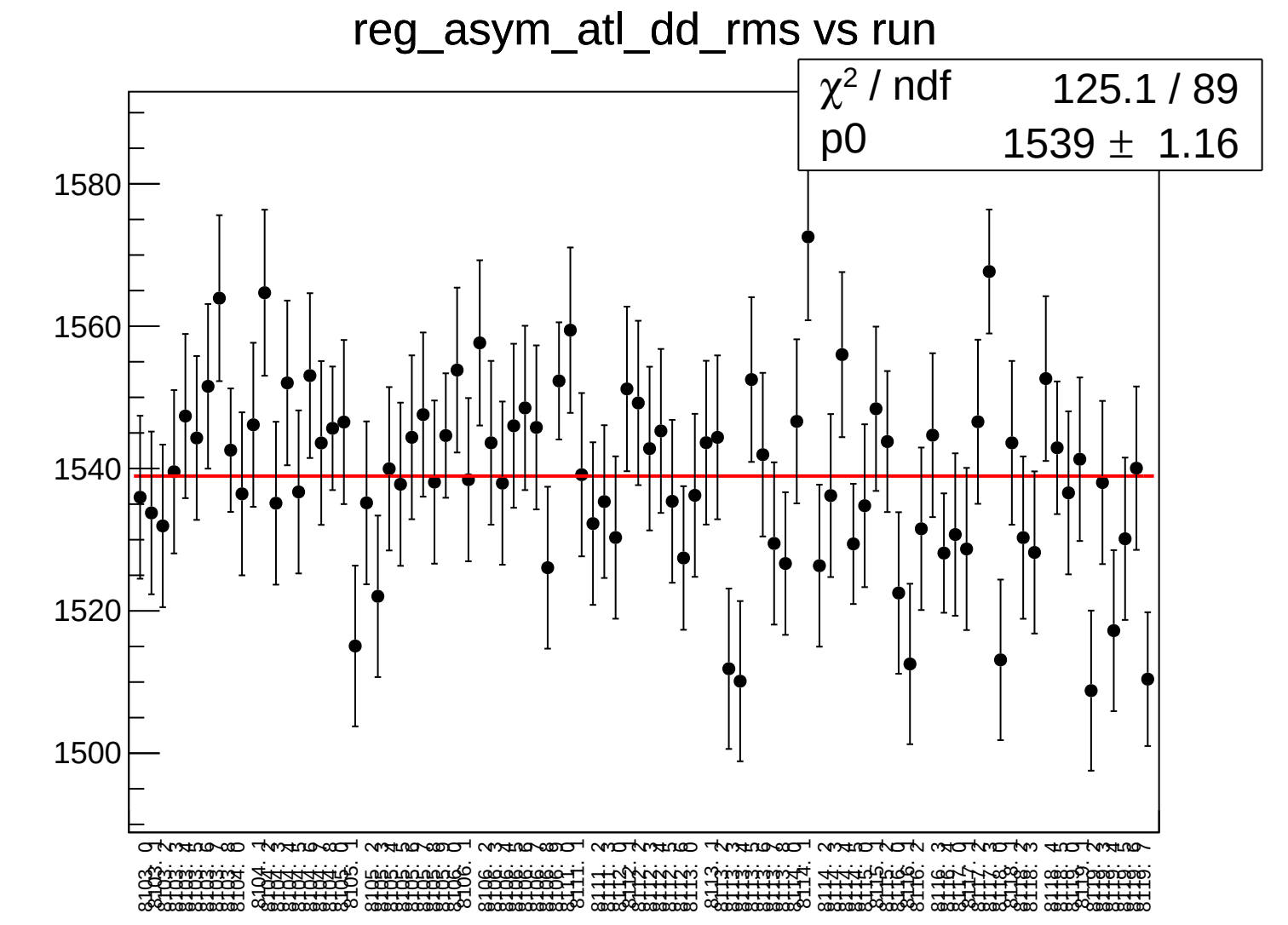

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.054e+05 / 89
p0 103.2 ± 0.08561
500
450
400
350
300
250
200
150
100
50

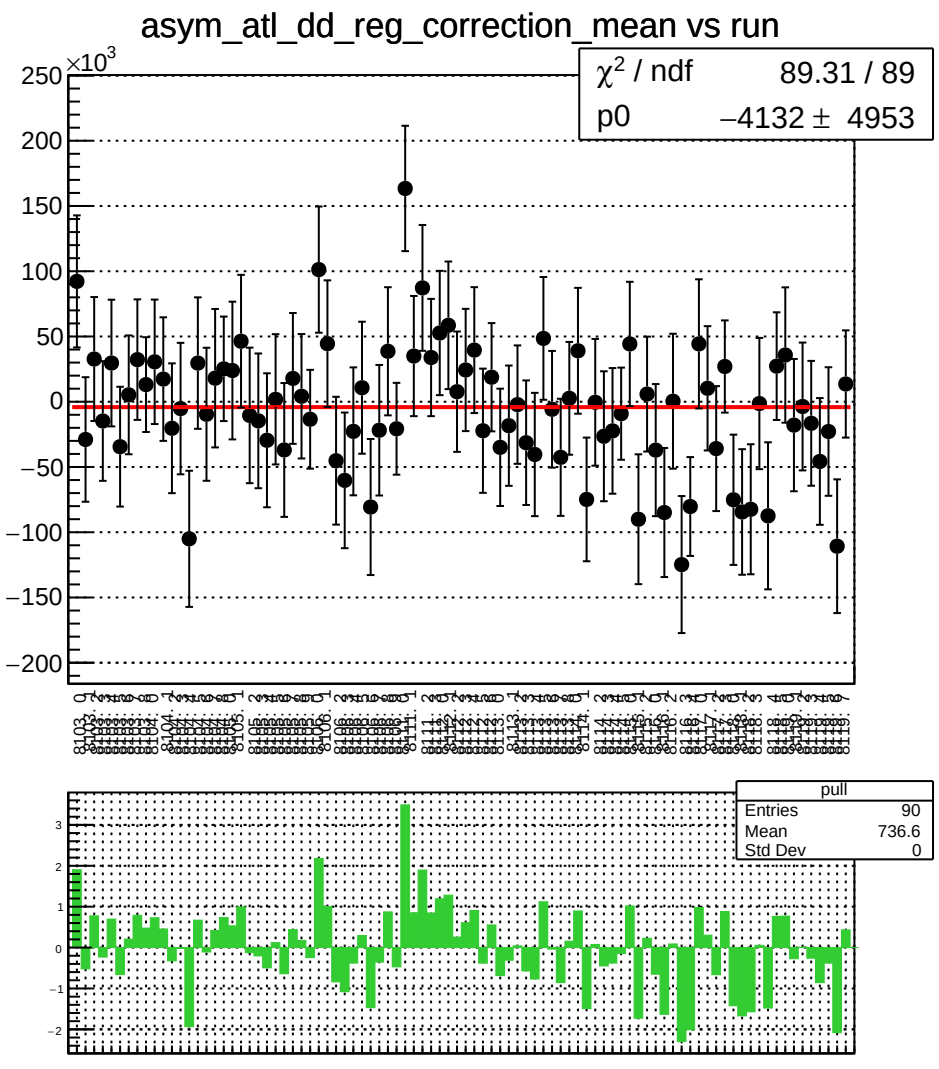

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.28 / 89
p0 1.76e−13 ± 2.42e−13
20
10
0
−10
−20
pull
Entries 90
Mean 44.14
Std Dev 19.58
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.1137
Std Dev 0.8827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

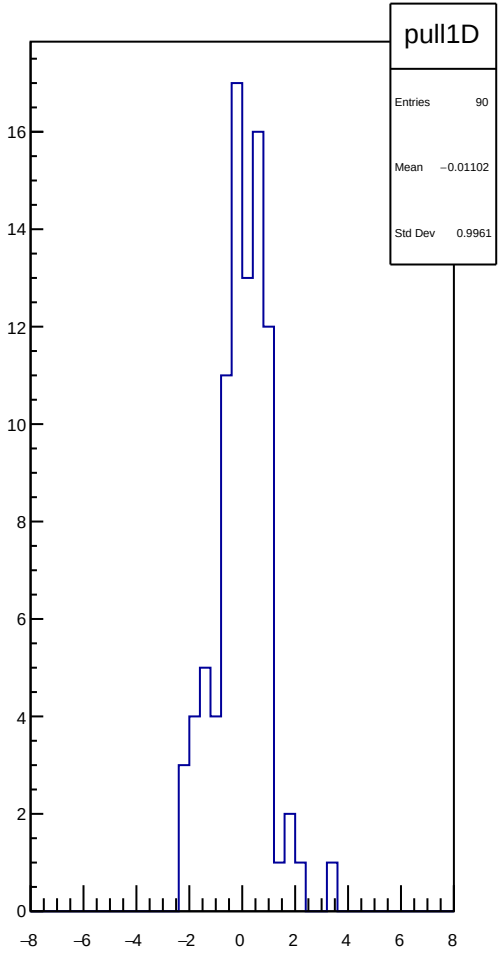

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.982e+05 / 89
p0 1.844e−10 ± 1.711e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

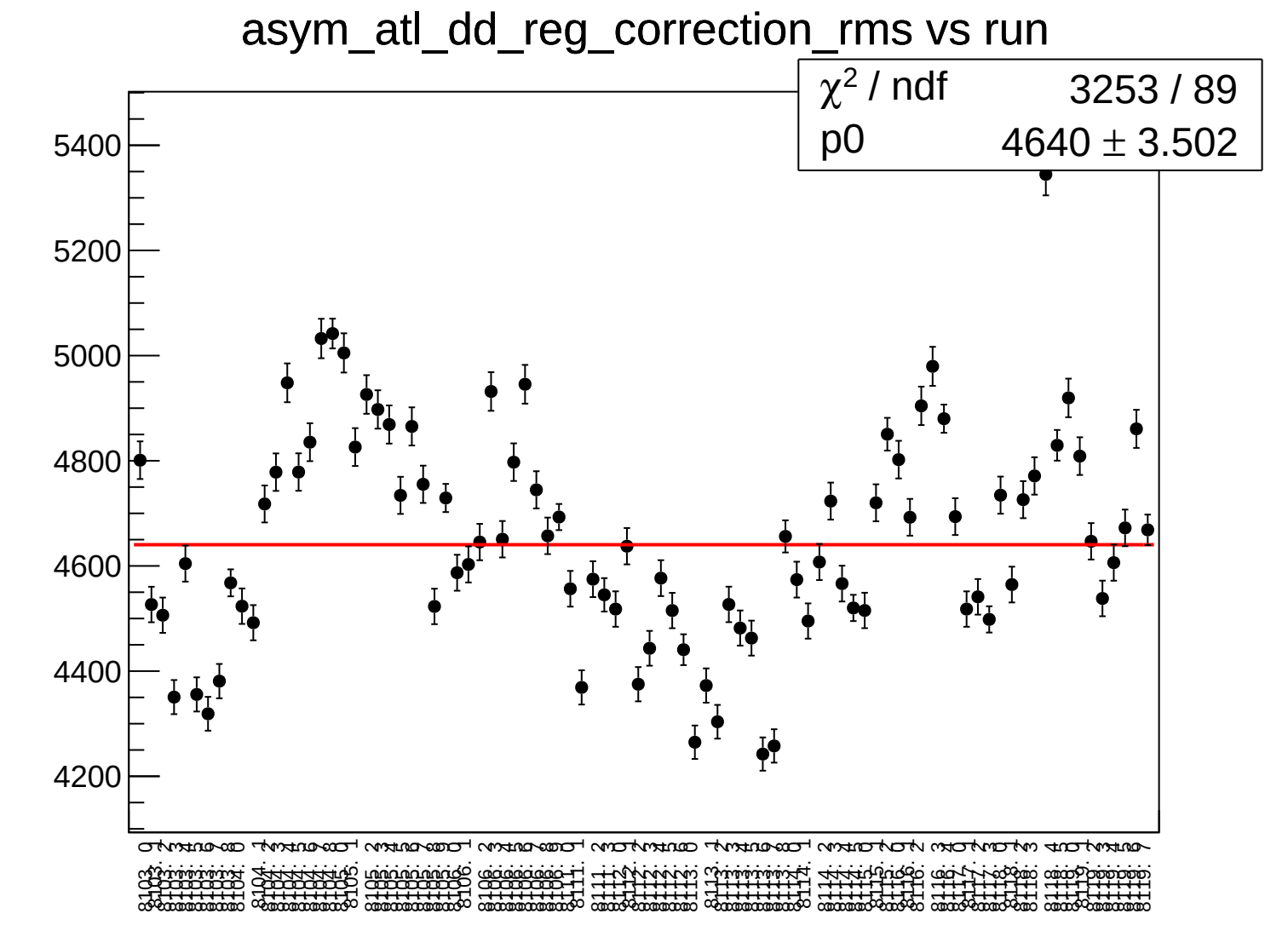

reg_asym_atl_dd_mean vs run
χ² / ndf 71.58 / 89
p0 305.1 ± 1641
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −40.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

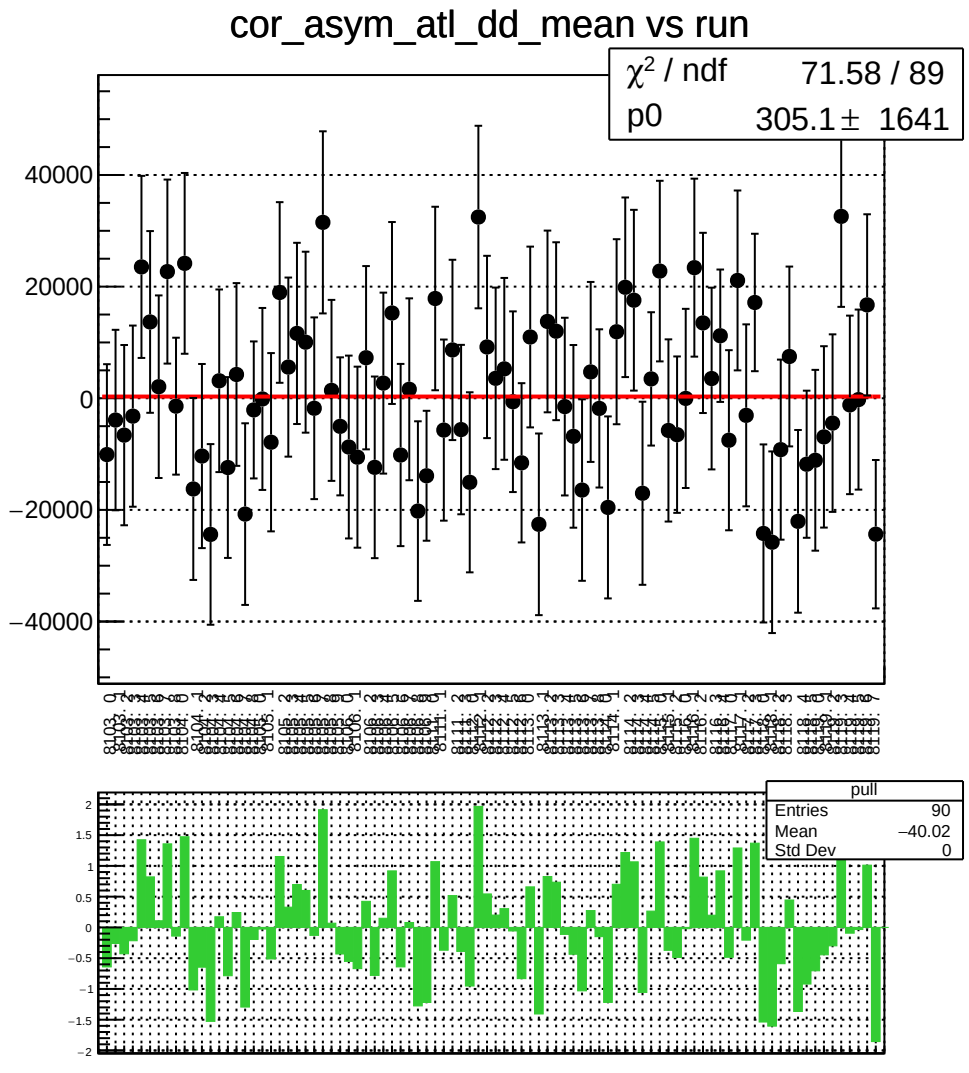

pull1D
Entries 90
Mean 0.008208
Std Dev 0.8918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

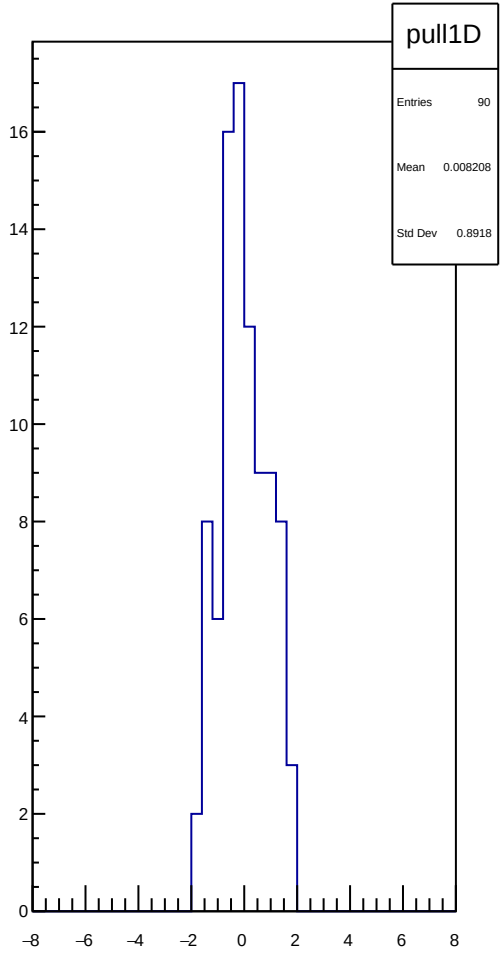

reg_asym_atl_dd_rms vs run
χ² / ndf 125.1 / 89
p0 1539 ± 1.16
1580
1560
1540
1520
1500

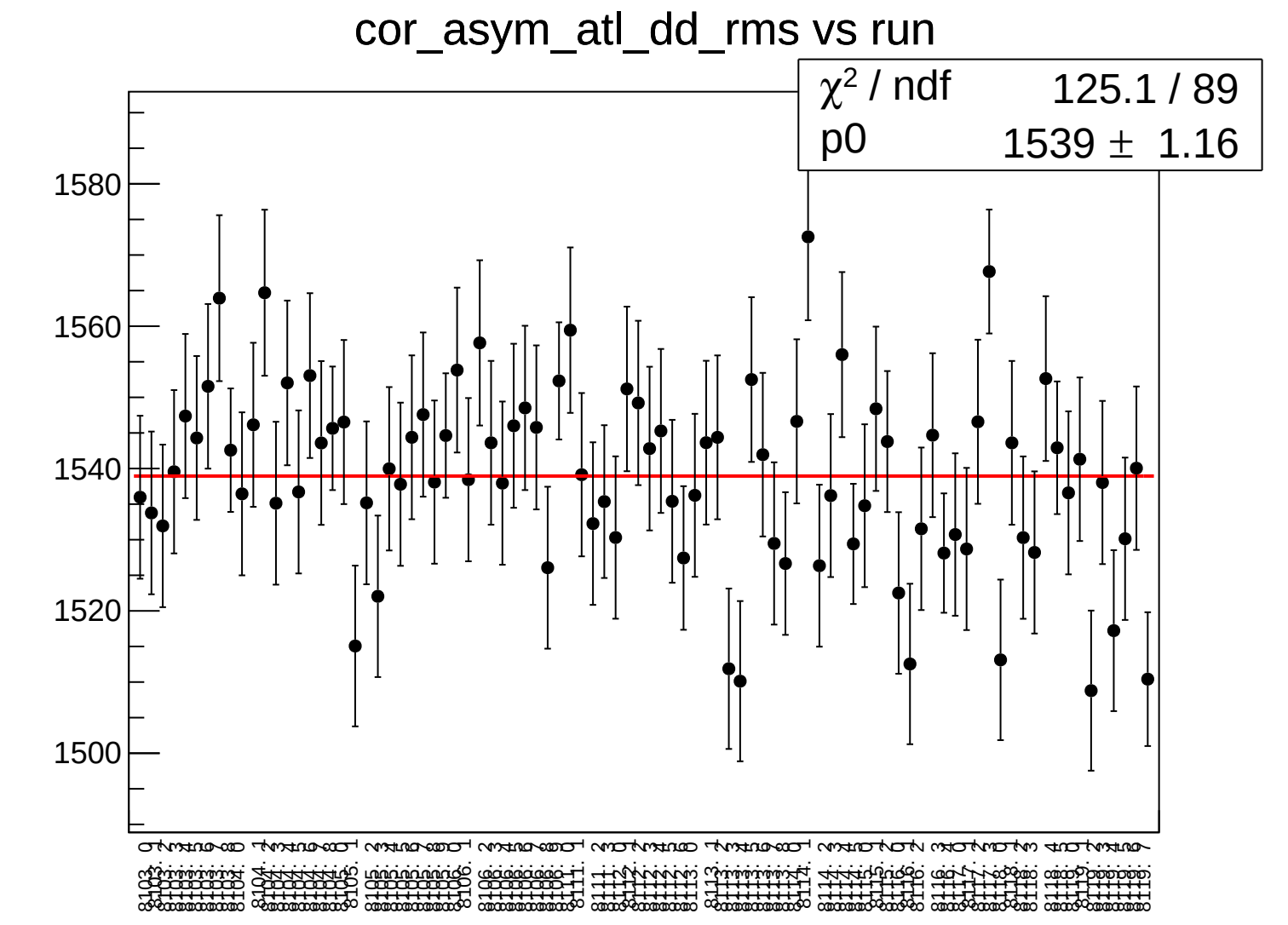

asym_atl_dd_reg_correction_mean vs run
χ² / ndf 89.31 / 89
p0 −4132 ± 4953
×10³
pull
Entries 90
Mean 736.6
Std Dev 0

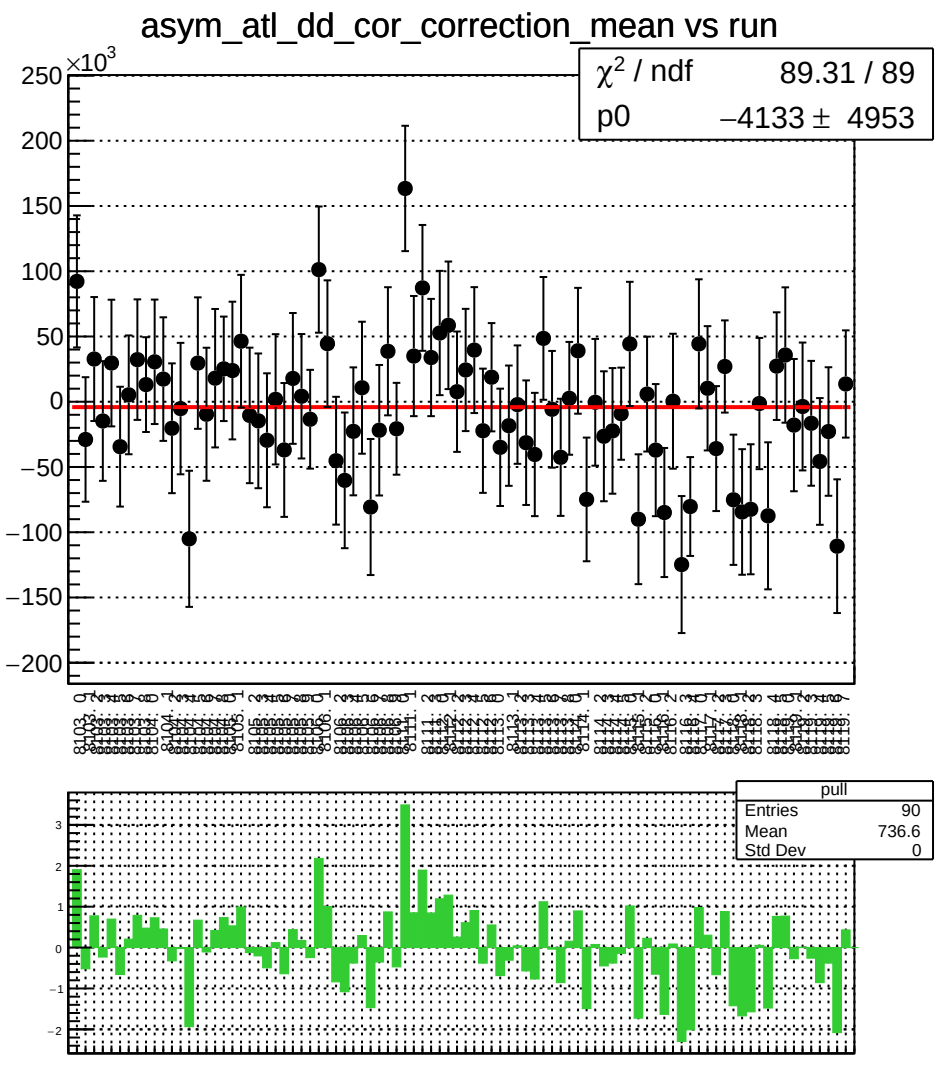

pull1D
Entries 90
Mean −0.01102
Std Dev 0.9961

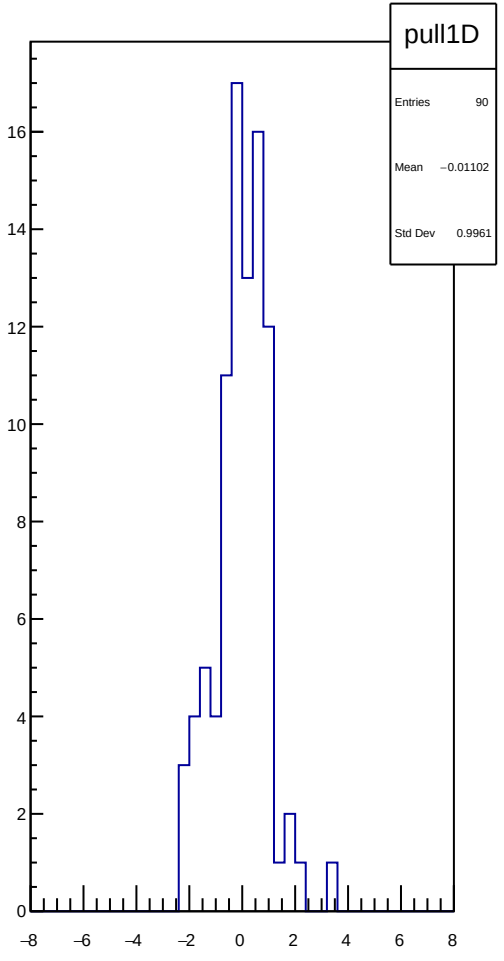

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 3253 / 89
p0 4640 ± 3.502
5400
5200
5000
4800
4600
4400
4200

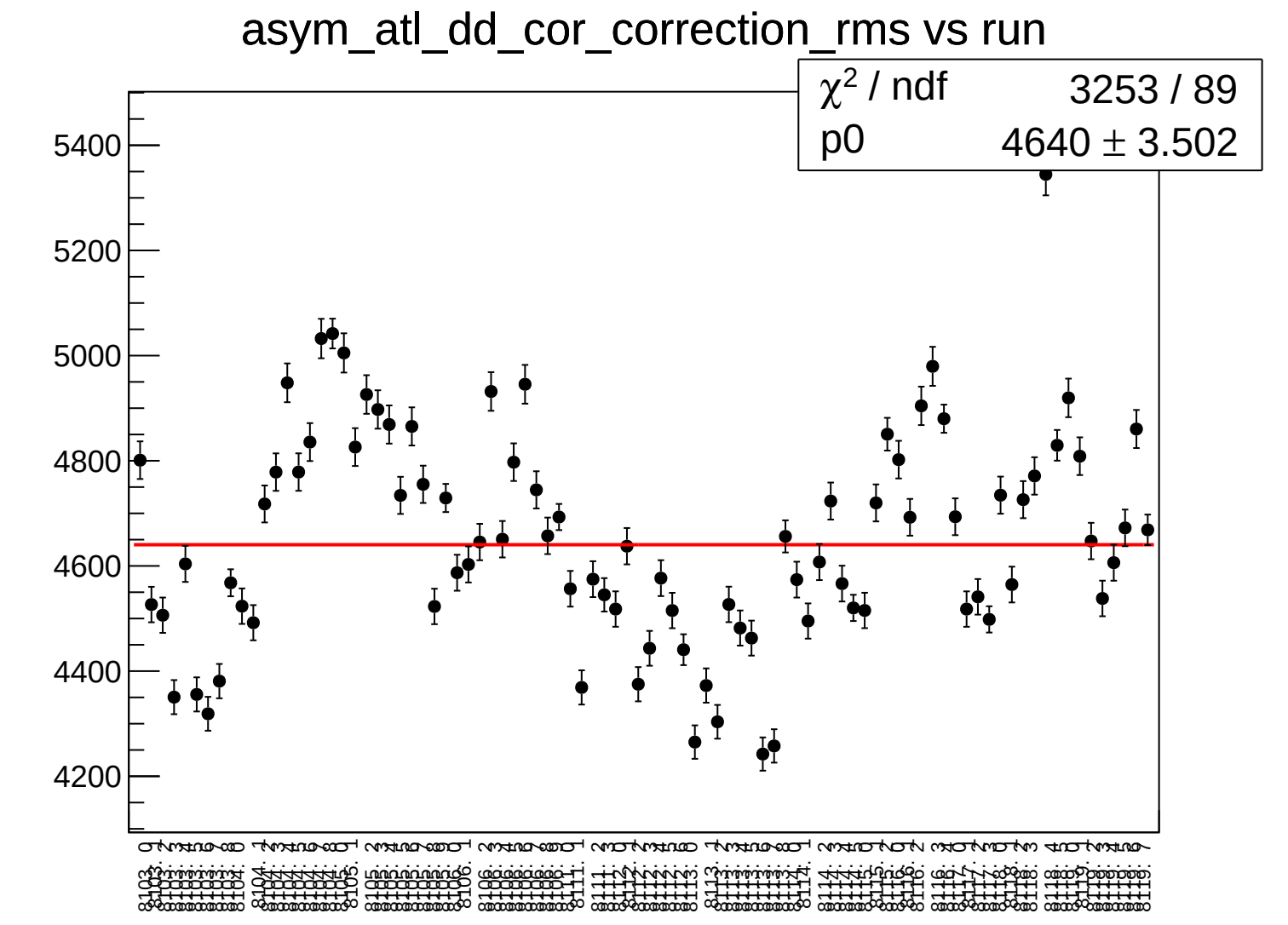

cor_asym_atl_dd_mean vs run
χ² / ndf 71.58 / 89
p0 305.1 ± 1641
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −40.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

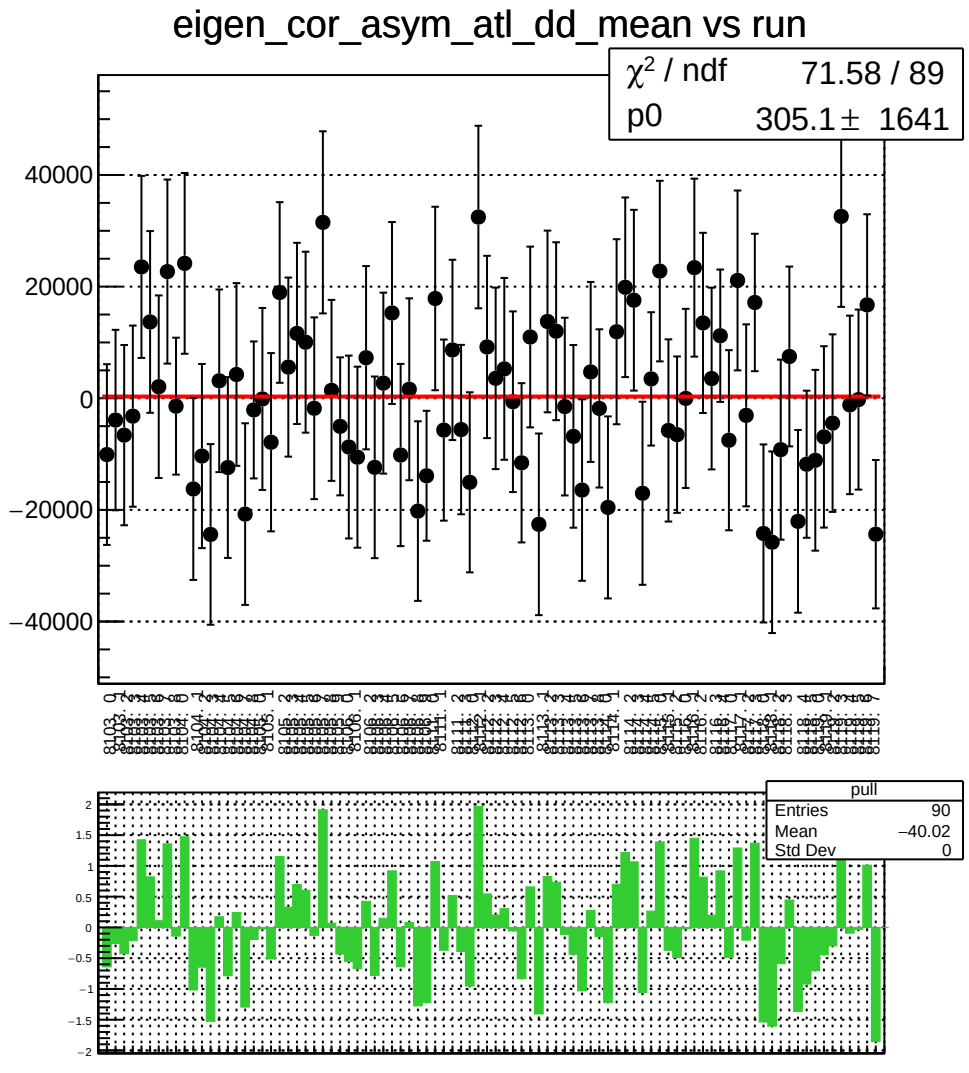

pull1D
Entries 90
Mean 0.008208
Std Dev 0.8918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

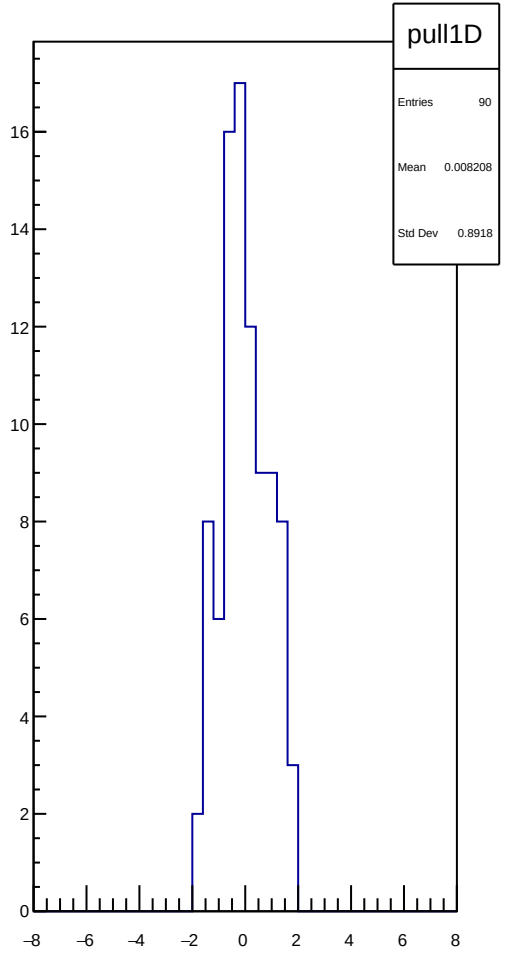

cor_asym_atl_dd_rms vs run
χ² / ndf 125.1 / 89
p0 1539 ± 1.16
1580
1560
1540
1520
1500

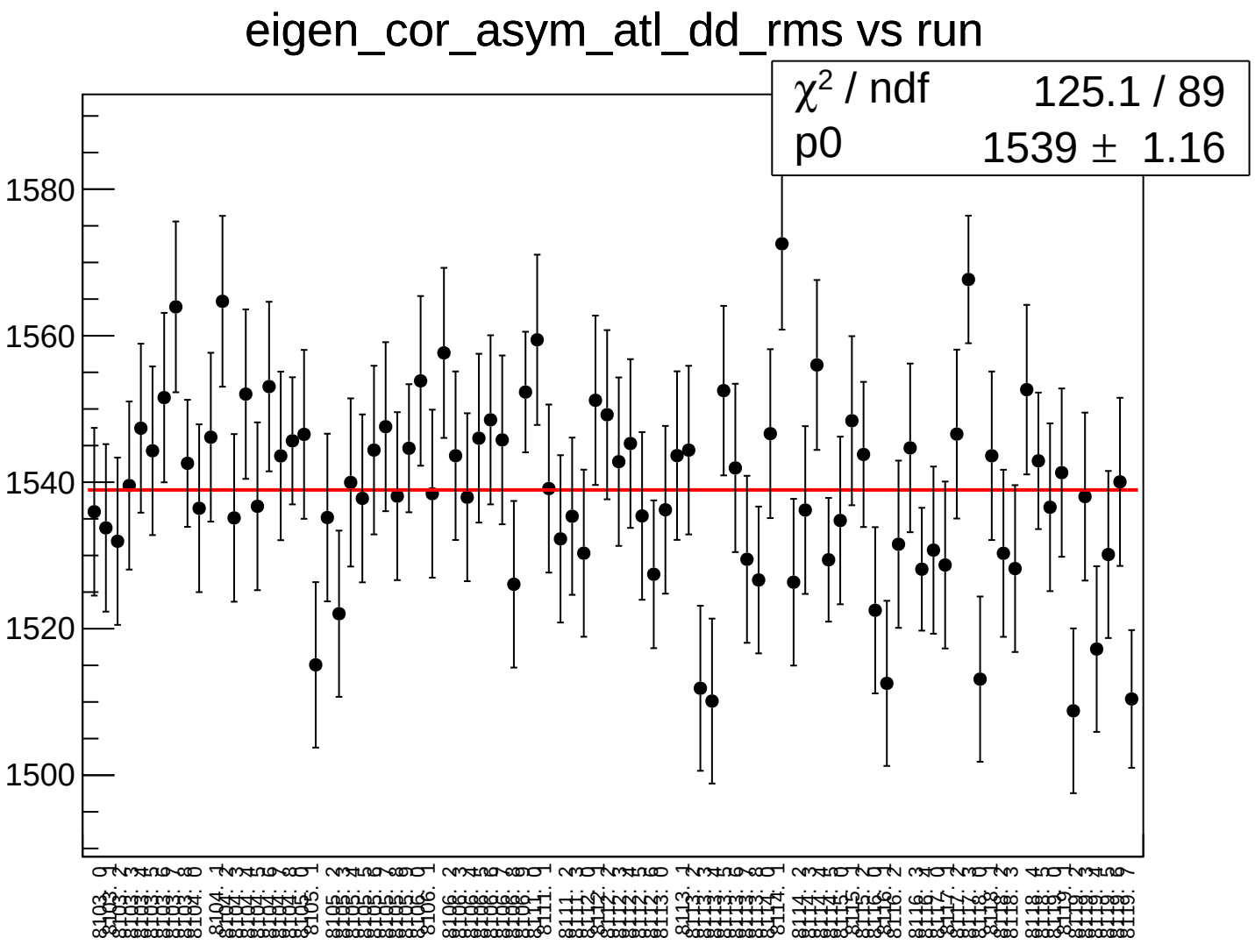

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 89.31 / 89
p0 −4133 ± 4953
×10³
pull
Entries 90
Mean 736.6
Std Dev 0

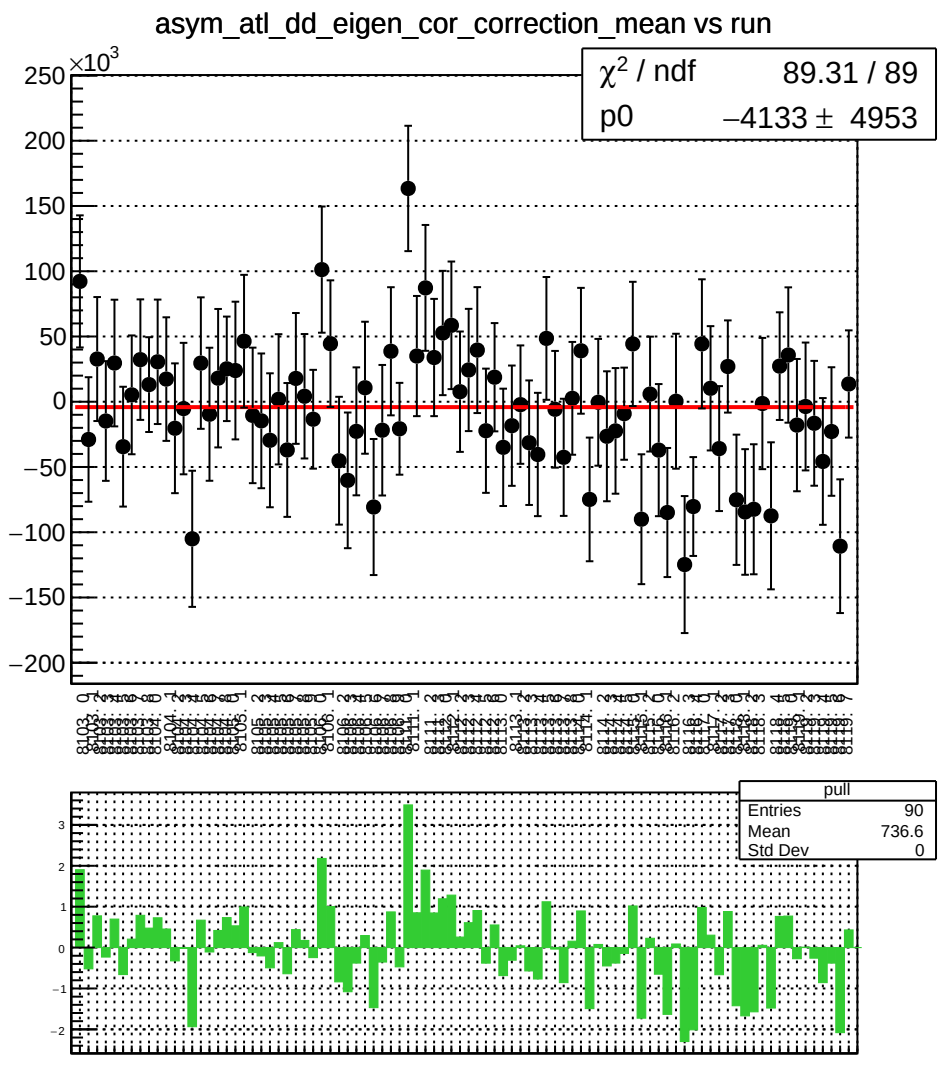

pull1D
Entries 90
Mean −0.01102
Std Dev 0.9961

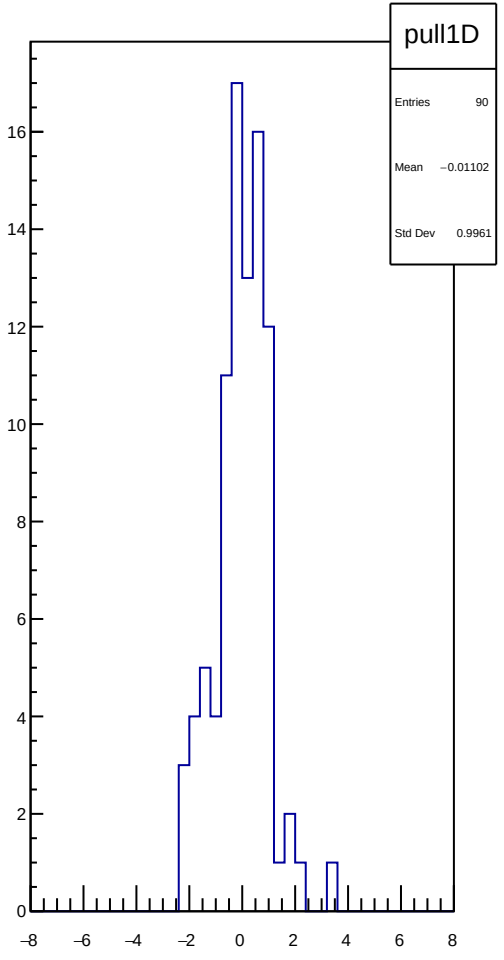

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 3253 / 89
p0 4640 ± 3.502
5400
5200
5000
4800
4600
4400
4200

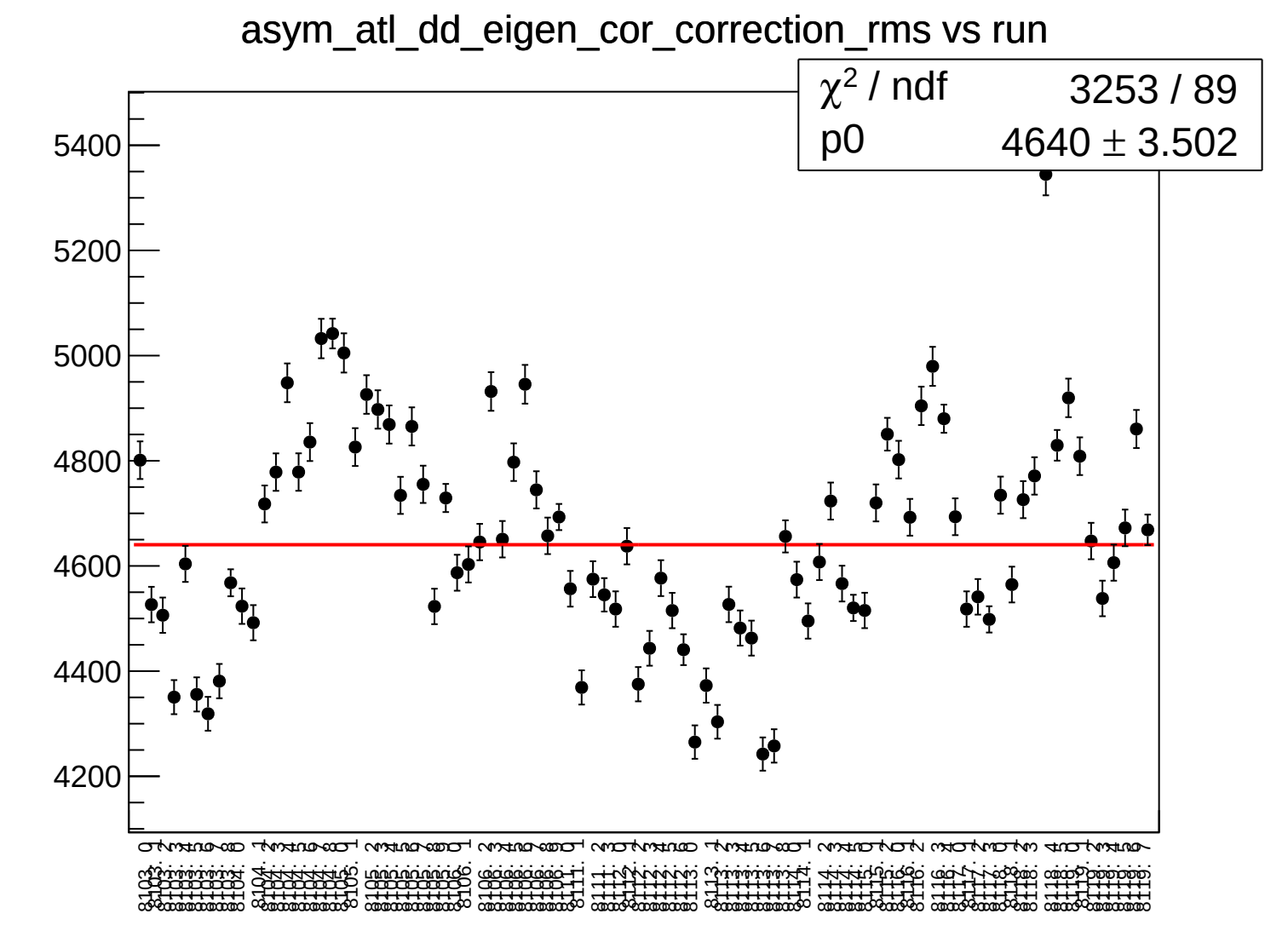

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 71.58 / 89
p0 305.1 ± 1641
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −40.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

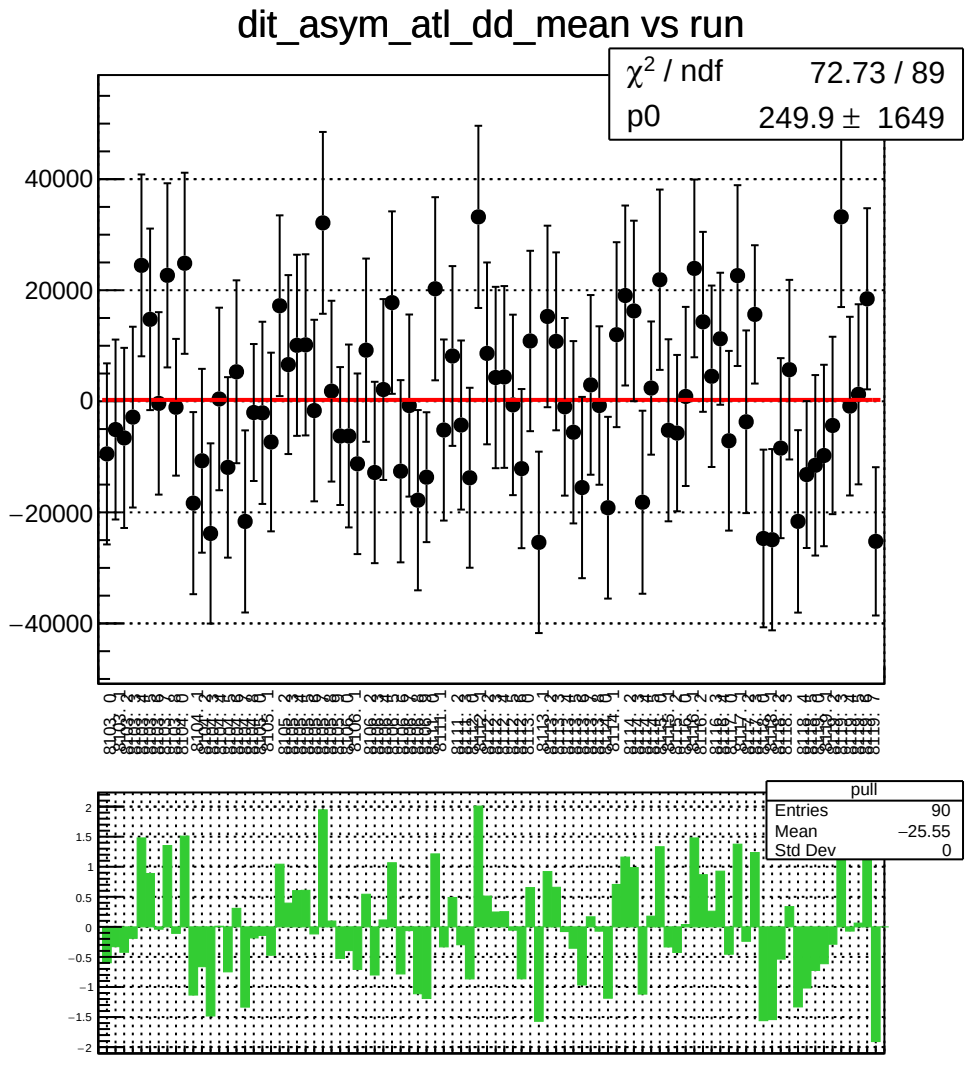

pull1D
Entries 90
Mean 0.008208
Std Dev 0.8918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

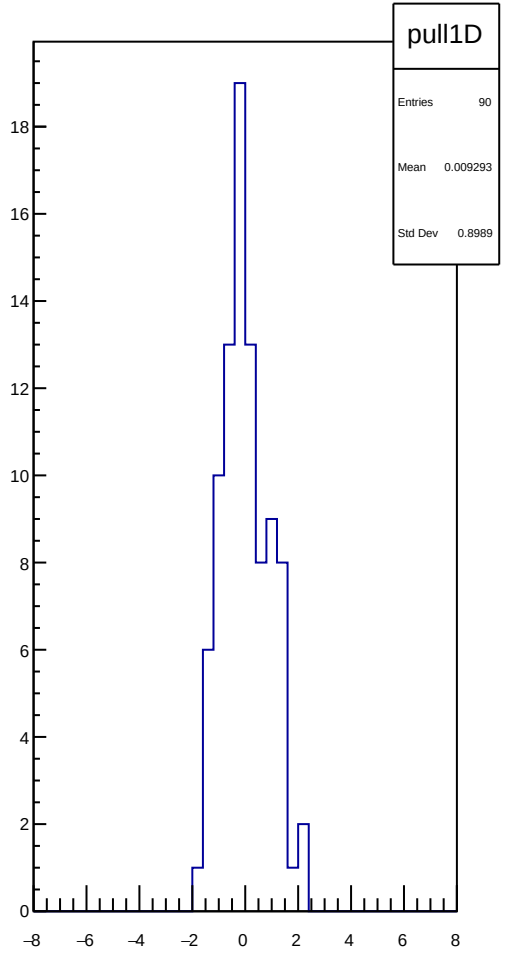

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 125.1 / 89
p0 1539 ± 1.16
1580
1560
1540
1520
1500

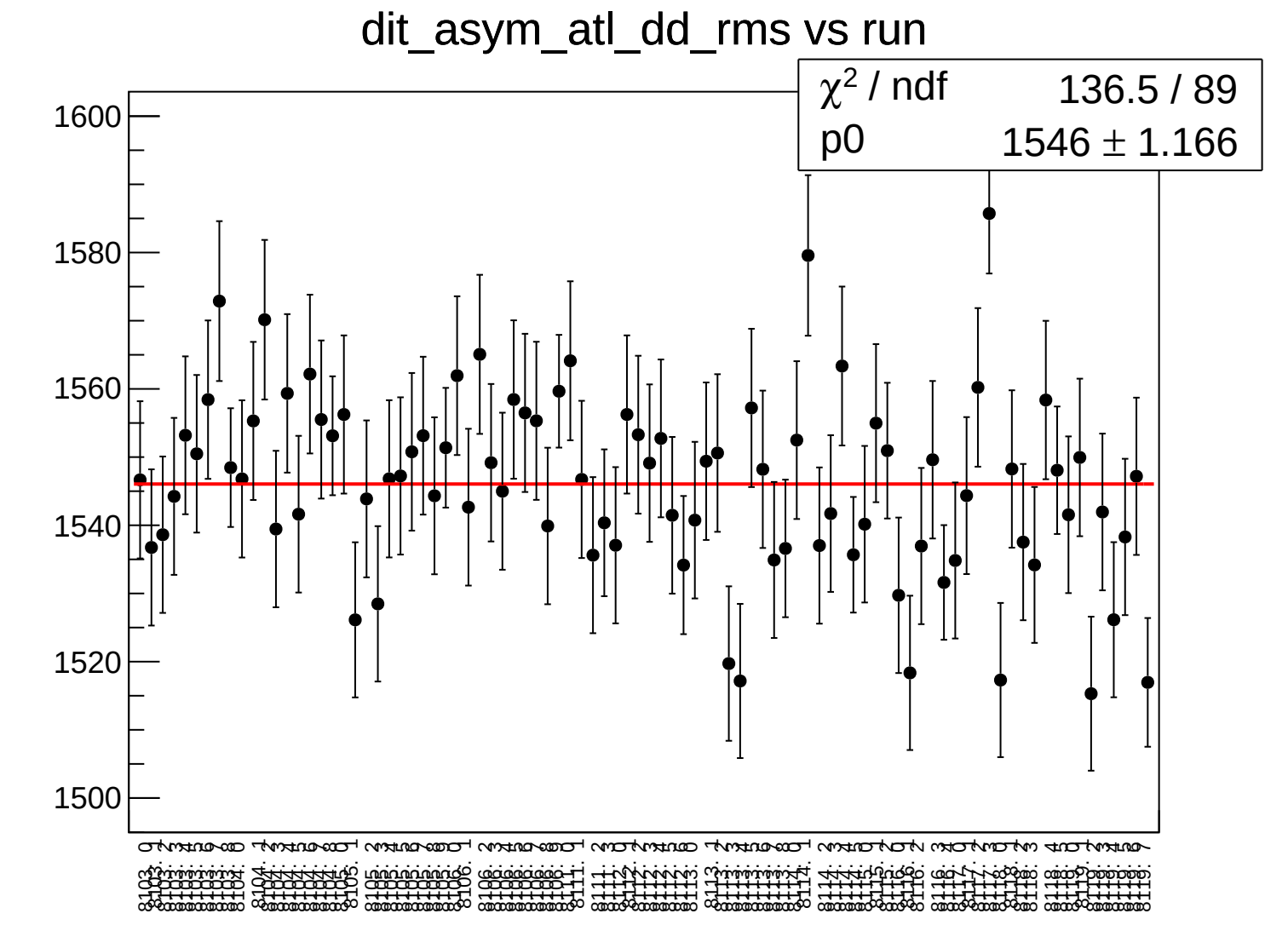

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.31 / 89
p0 −4133 ± 4953
×10³
pull
Entries 90
Mean 736.6
Std Dev 0

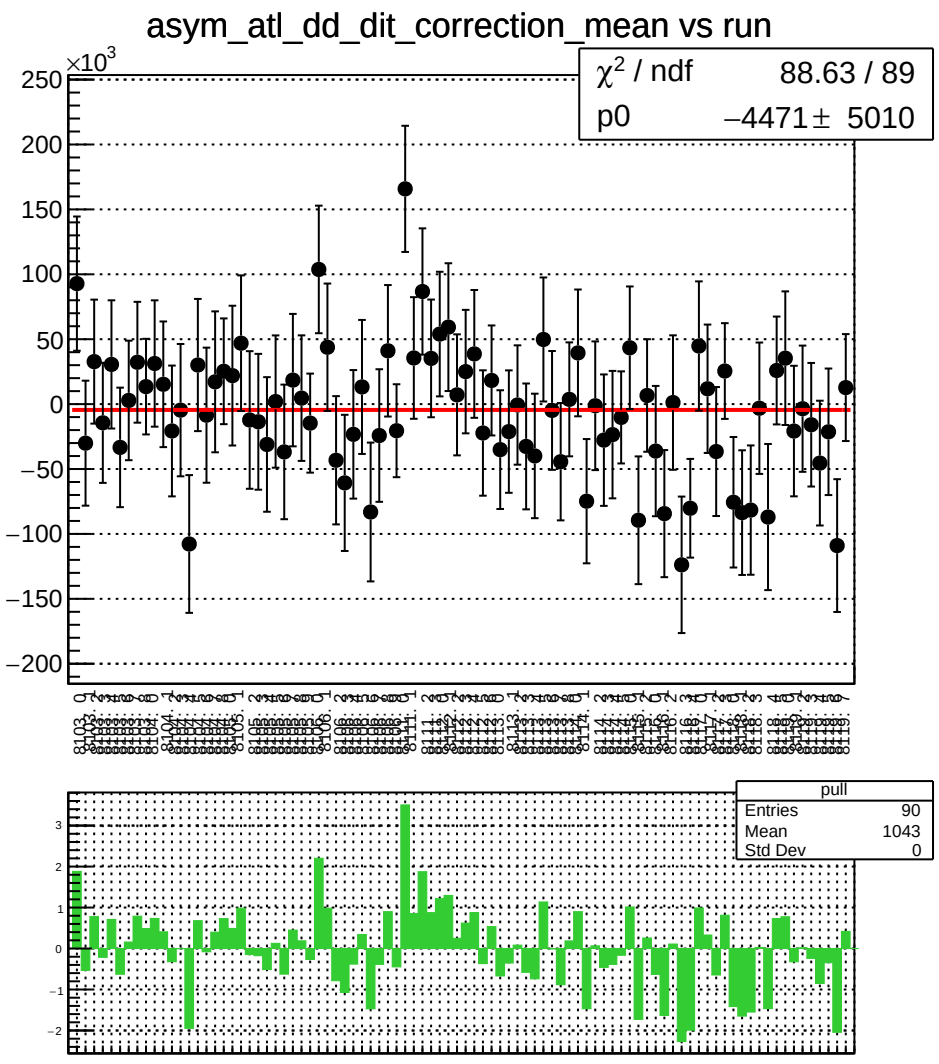

pull1D
Entries 90
Mean −0.01102
Std Dev 0.9961

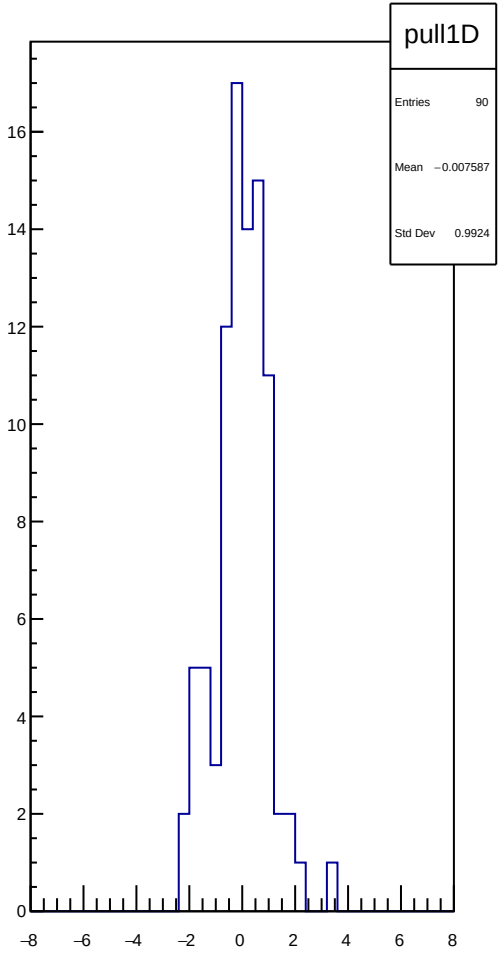

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 3253 / 89
p0 4640 ± 3.502
5400
5200
5000
4800
4600
4400
4200

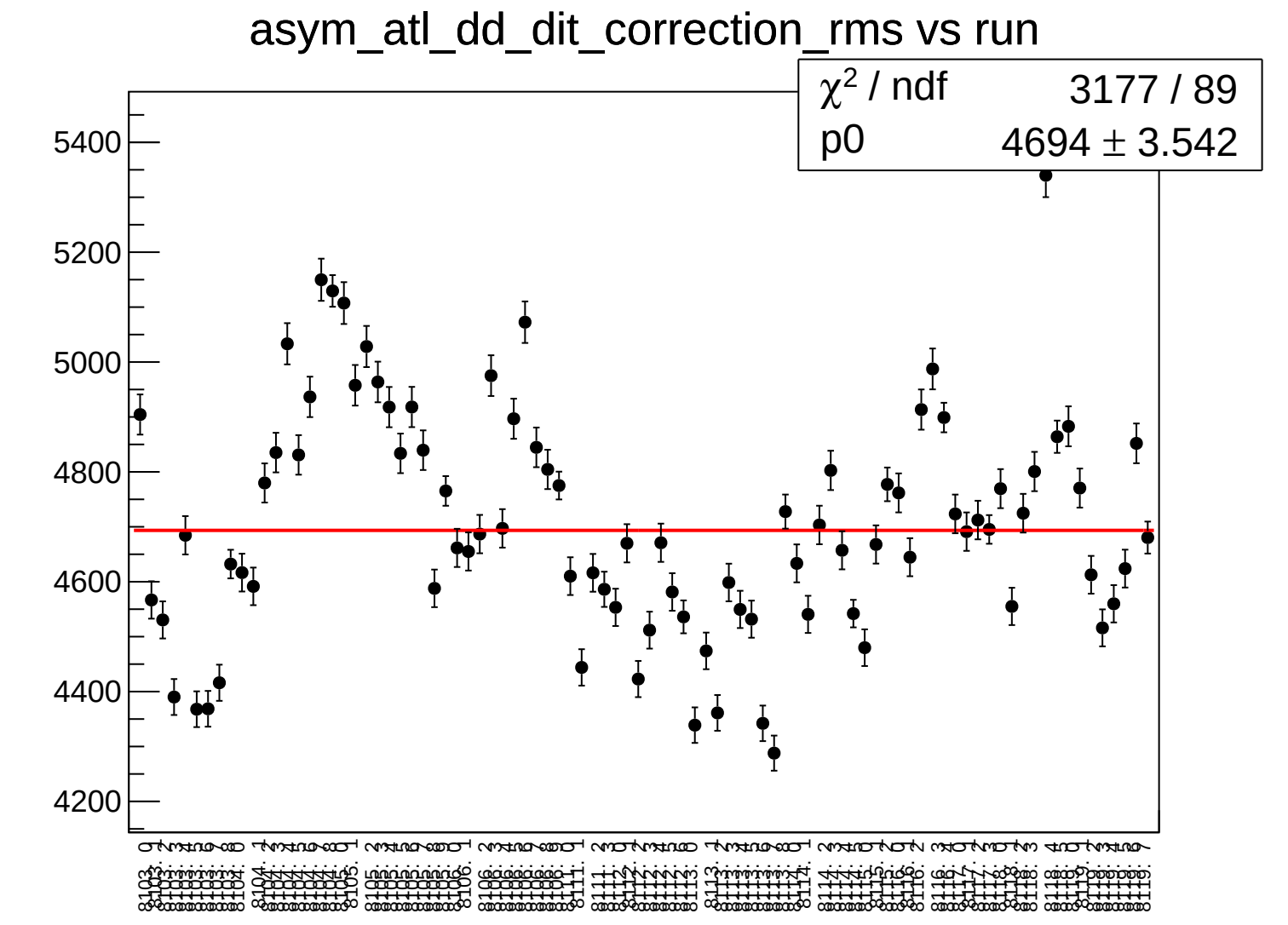

dit_asym_atl_dd_mean vs run
χ² / ndf 72.73 / 89
p0 249.9 ± 1649
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −25.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

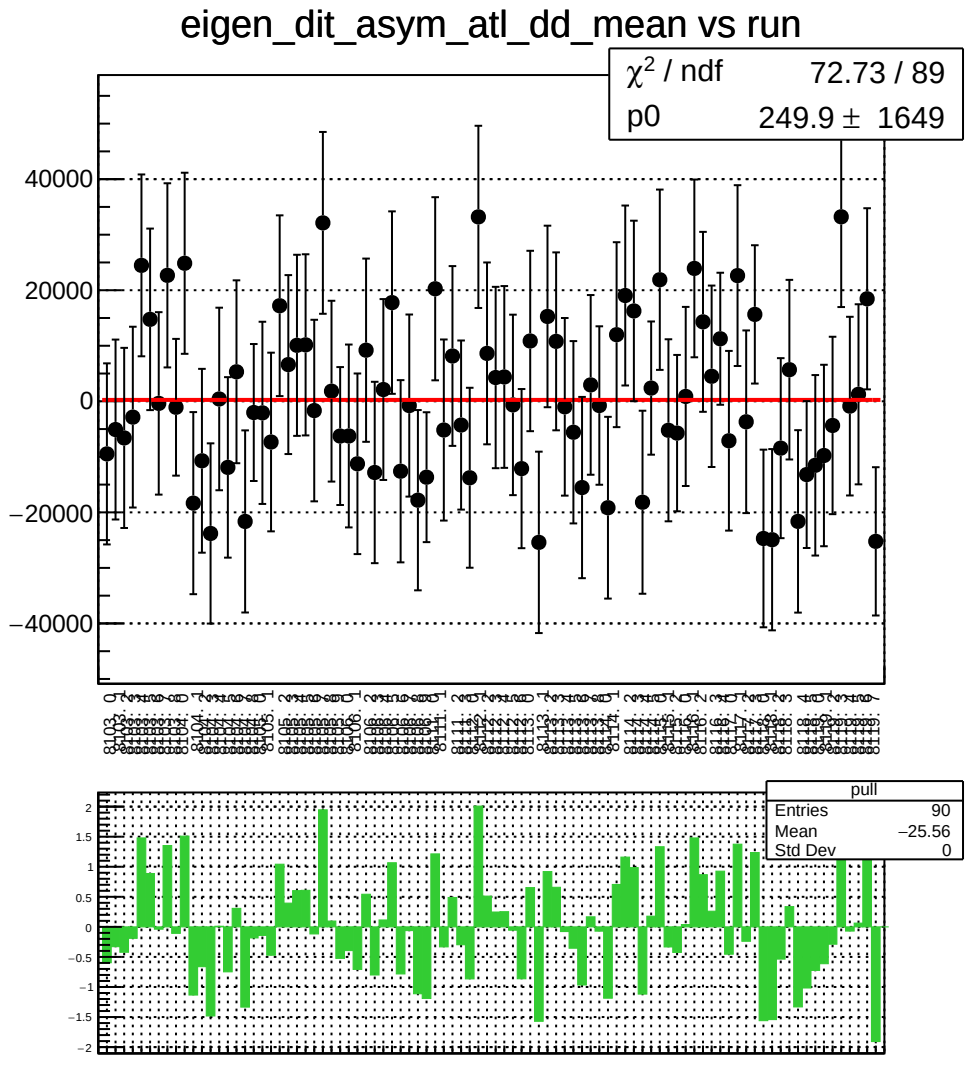

pull1D
Entries 90
Mean 0.009293
Std Dev 0.8989
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

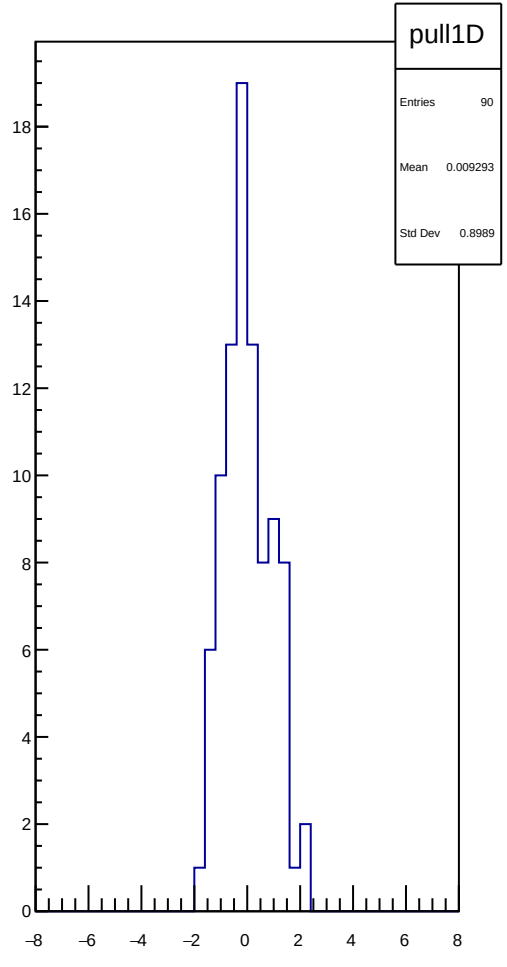

dit_asym_atl_dd_rms vs run
χ² / ndf 136.5 / 89
p0 1546 ± 1.166
1600
1580
1560
1540
1520
1500

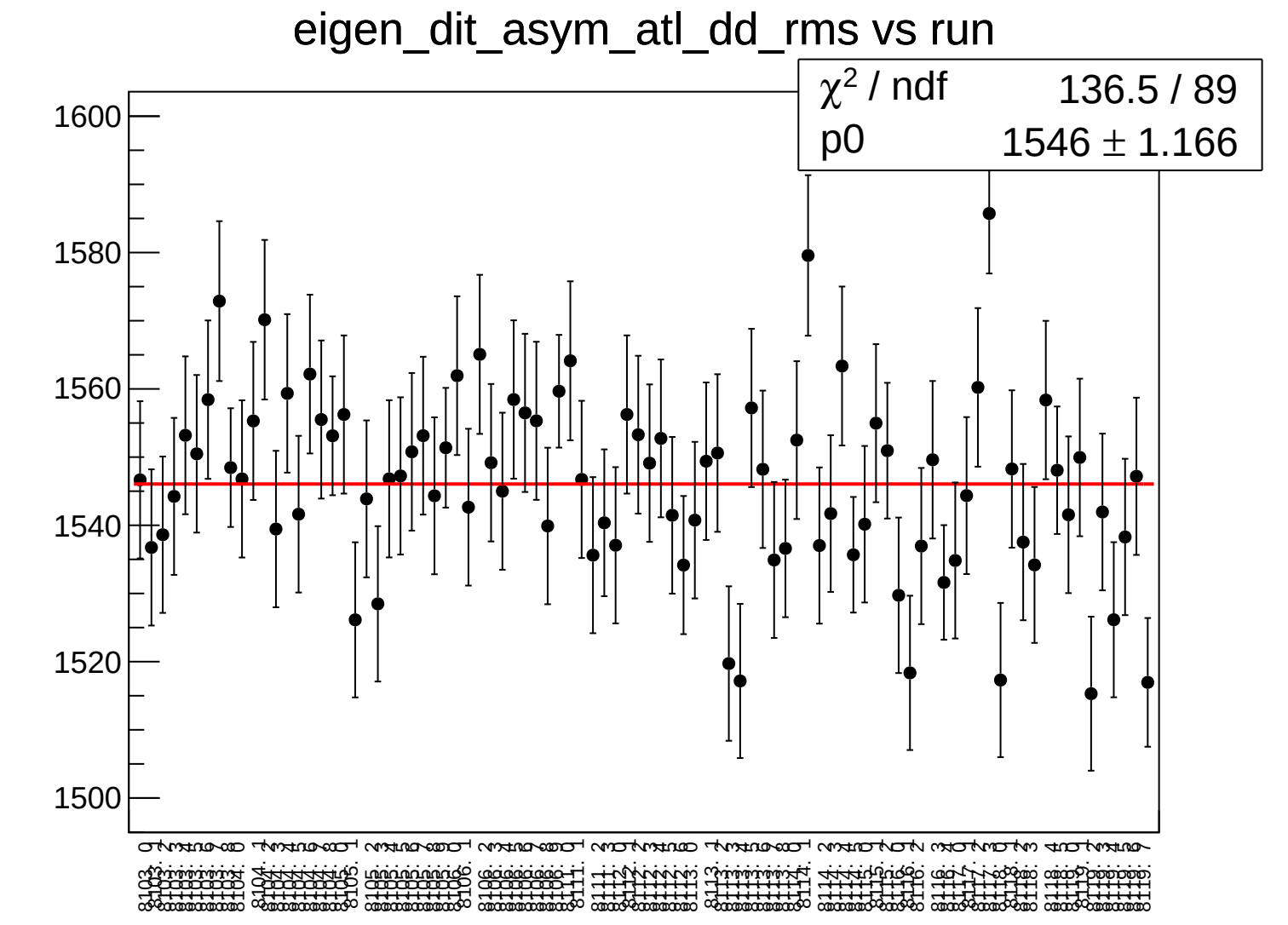

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 88.63 / 89
p0 −4471 ± 5010
×10³
pull
Entries 90
Mean 1043
Std Dev 0

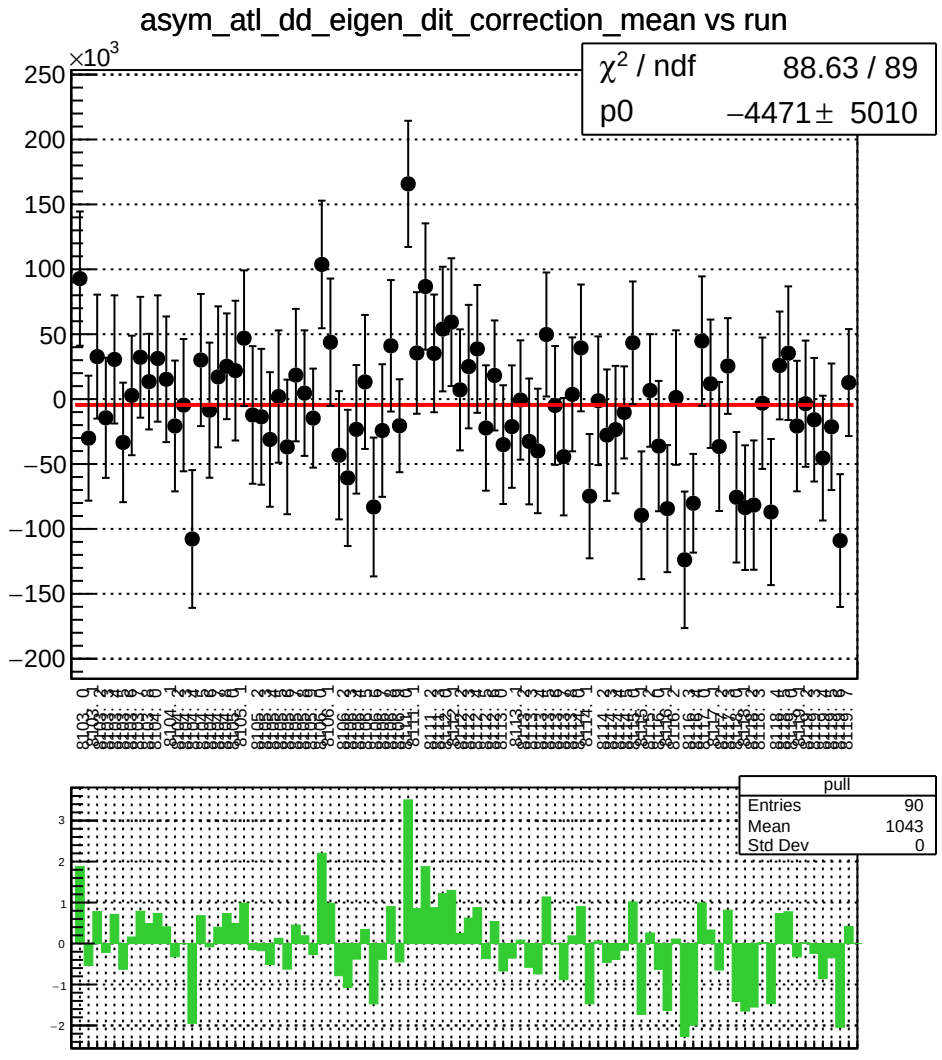

pull1D
Entries 90
Mean −0.007587
Std Dev 0.9924

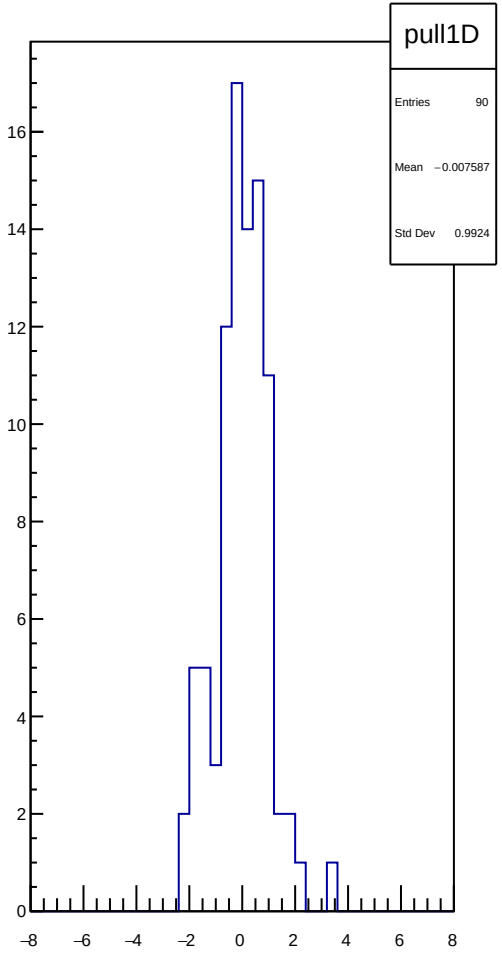

asym_atl_dd_dit_correction_rms vs run
χ^2 / ndf 3177 / 89
p0 4694 ± 3.542
5400
5200
5000
4800
4600
4400
4200

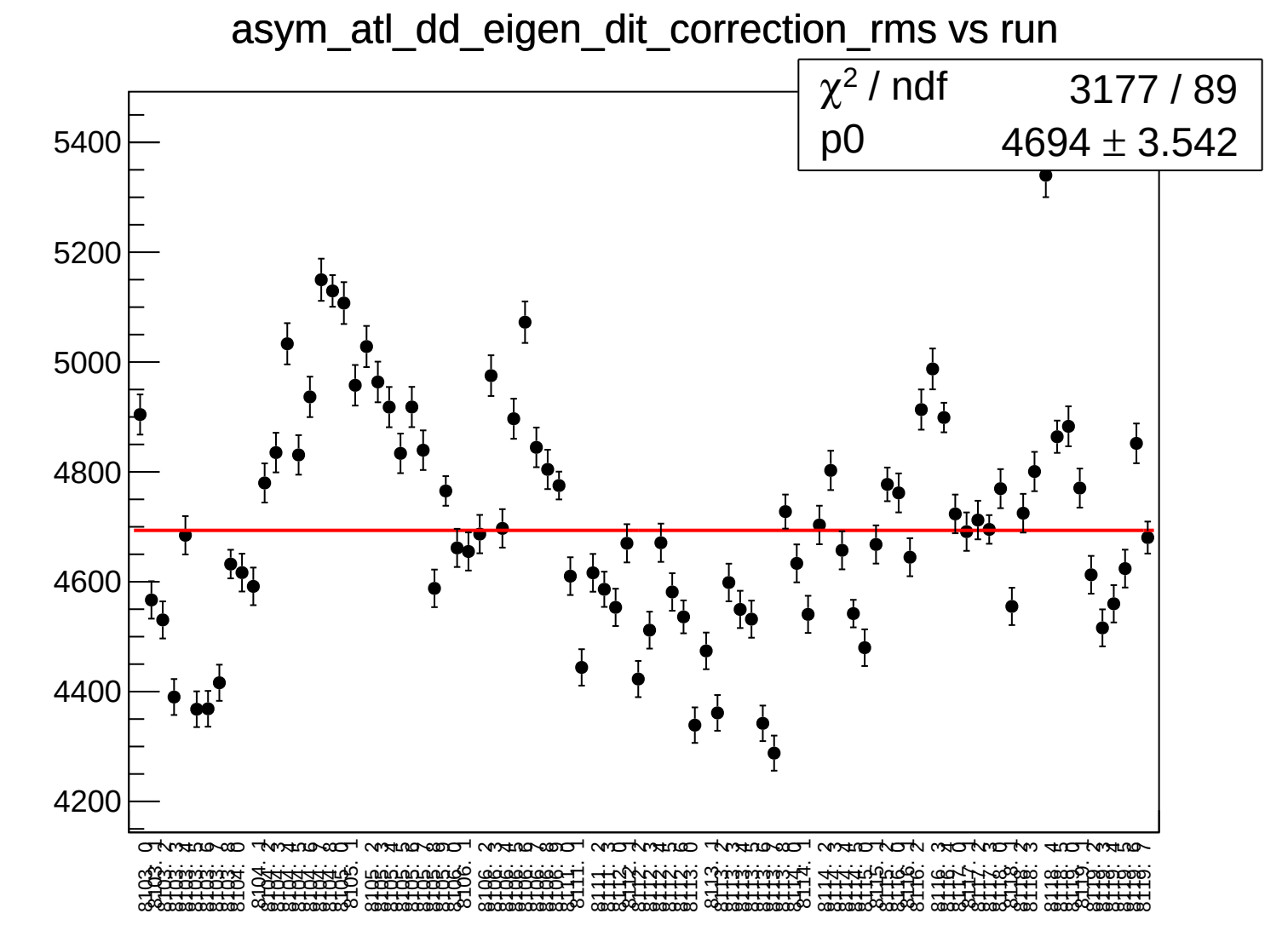

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 72.73 / 89
p0 249.9 ± 1649
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −25.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

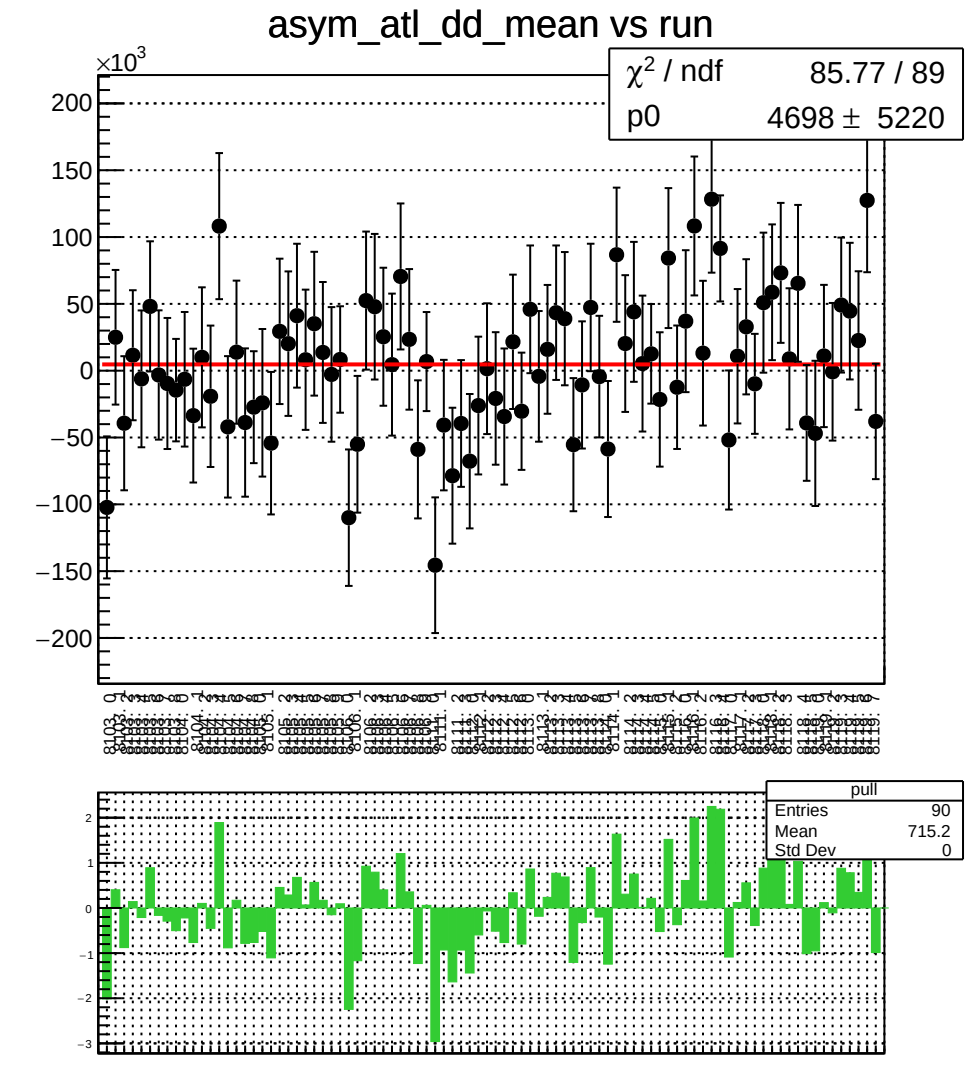

pull1D
Entries 90
Mean 0.009293
Std Dev 0.8989
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

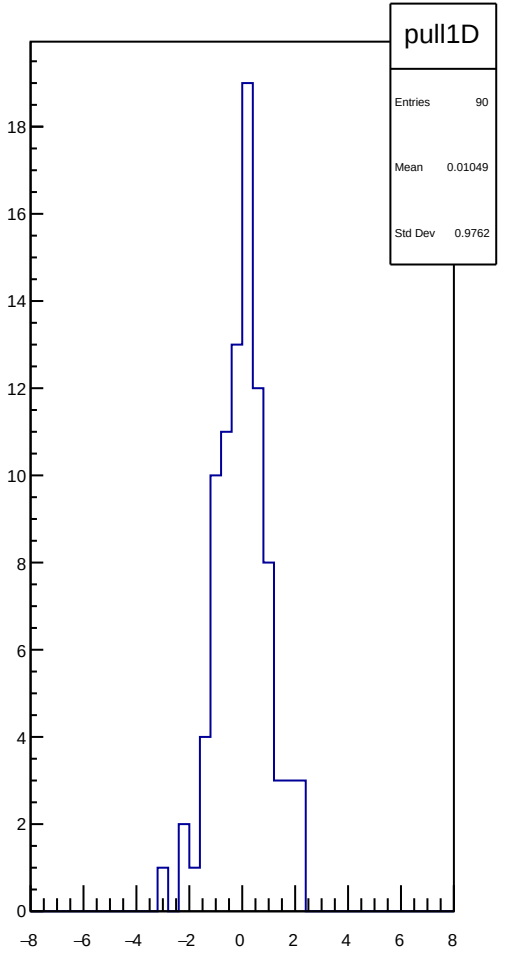

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 136.5 / 89
p0 1546 ± 1.166
1600
1580
1560
1540
1520
1500

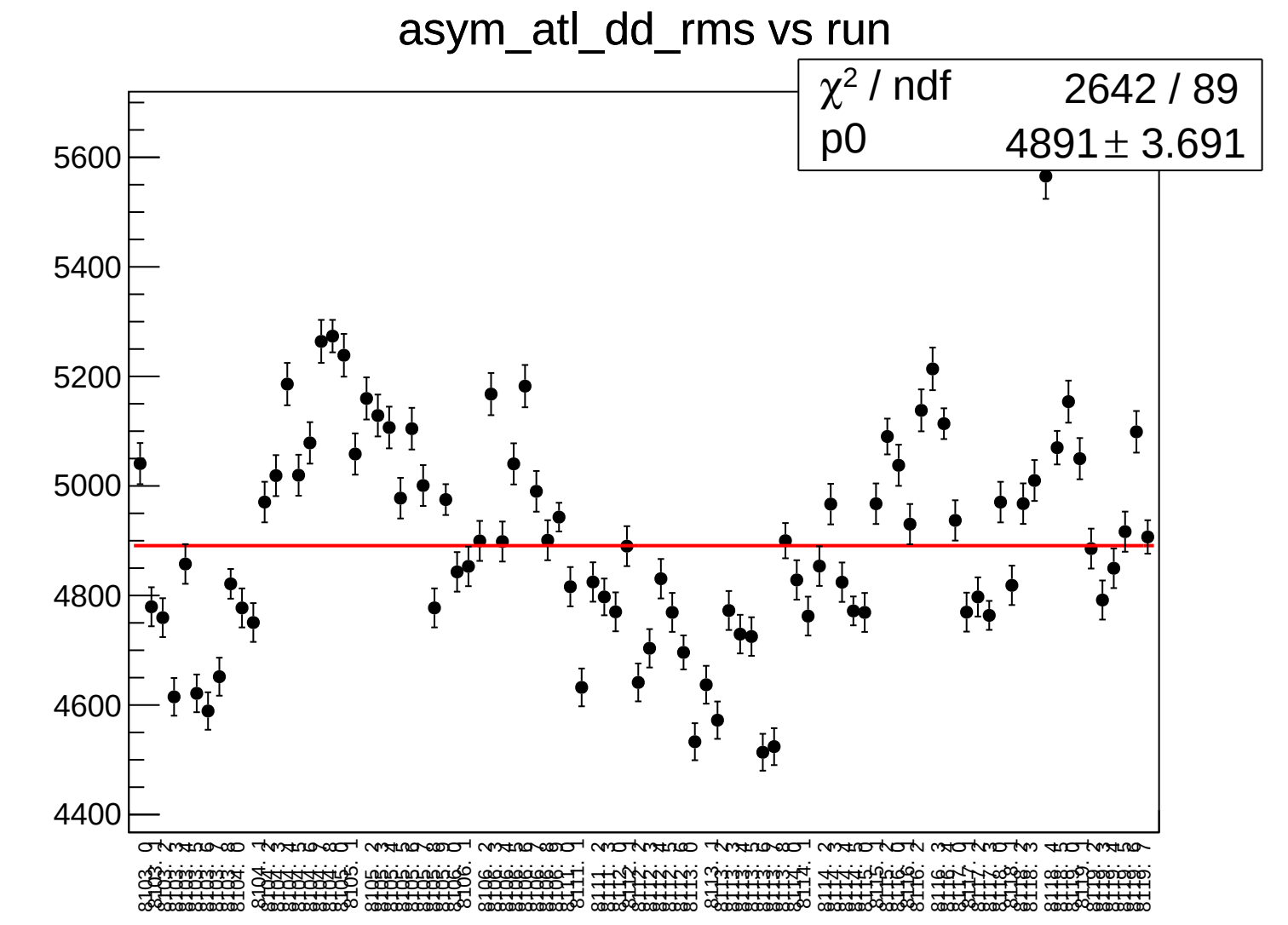

asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.63 / 89
p0 −4471 ± 5010
×10³
pull
Entries 90
Mean 1043
Std Dev 0

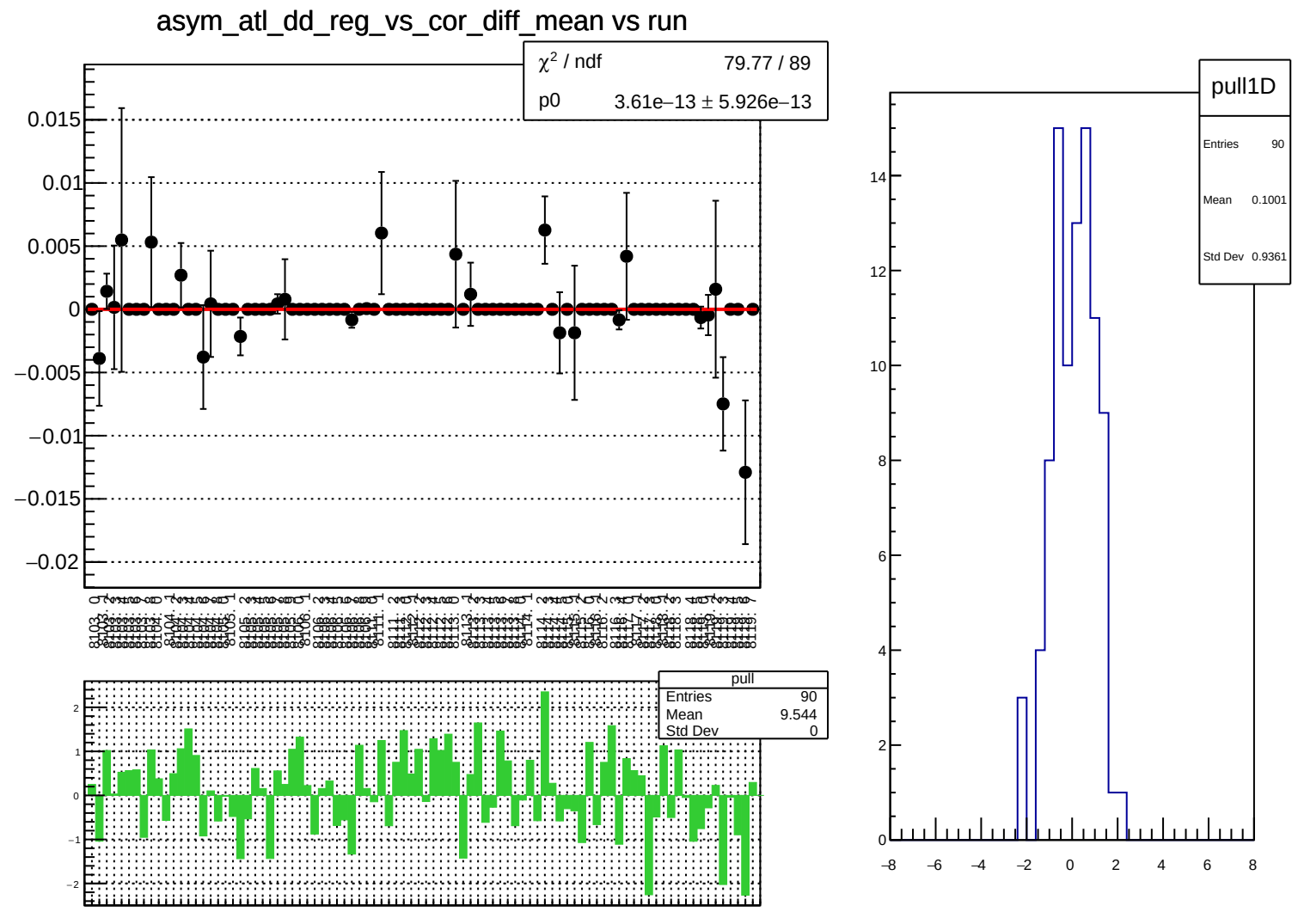

pull1D
Entries 90
Mean −0.007587
Std Dev 0.9924

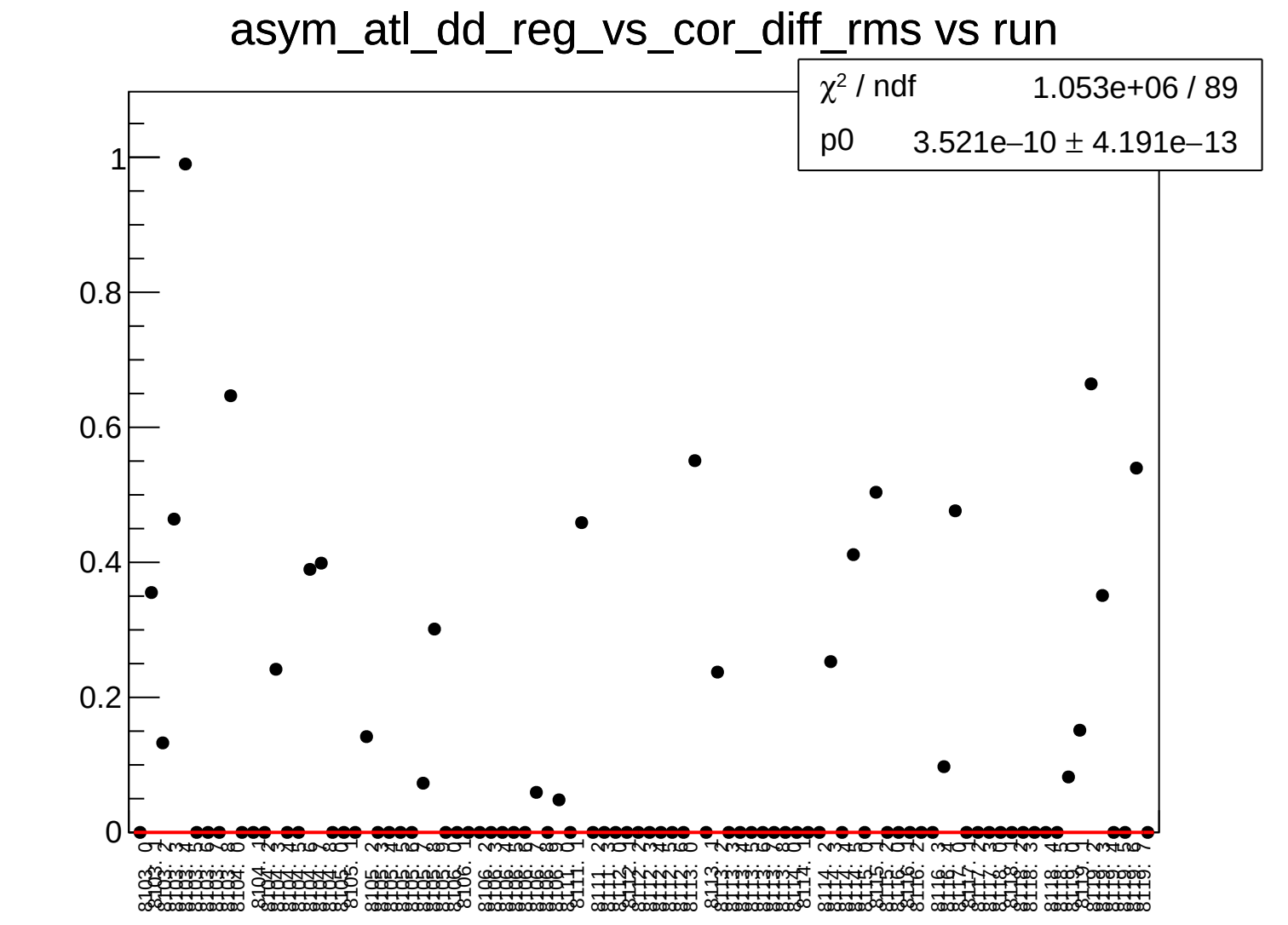

asym_atl_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3177 / 89
p0 4694 ± 3.542
5400
5200
5000
4800
4600
4400
4200

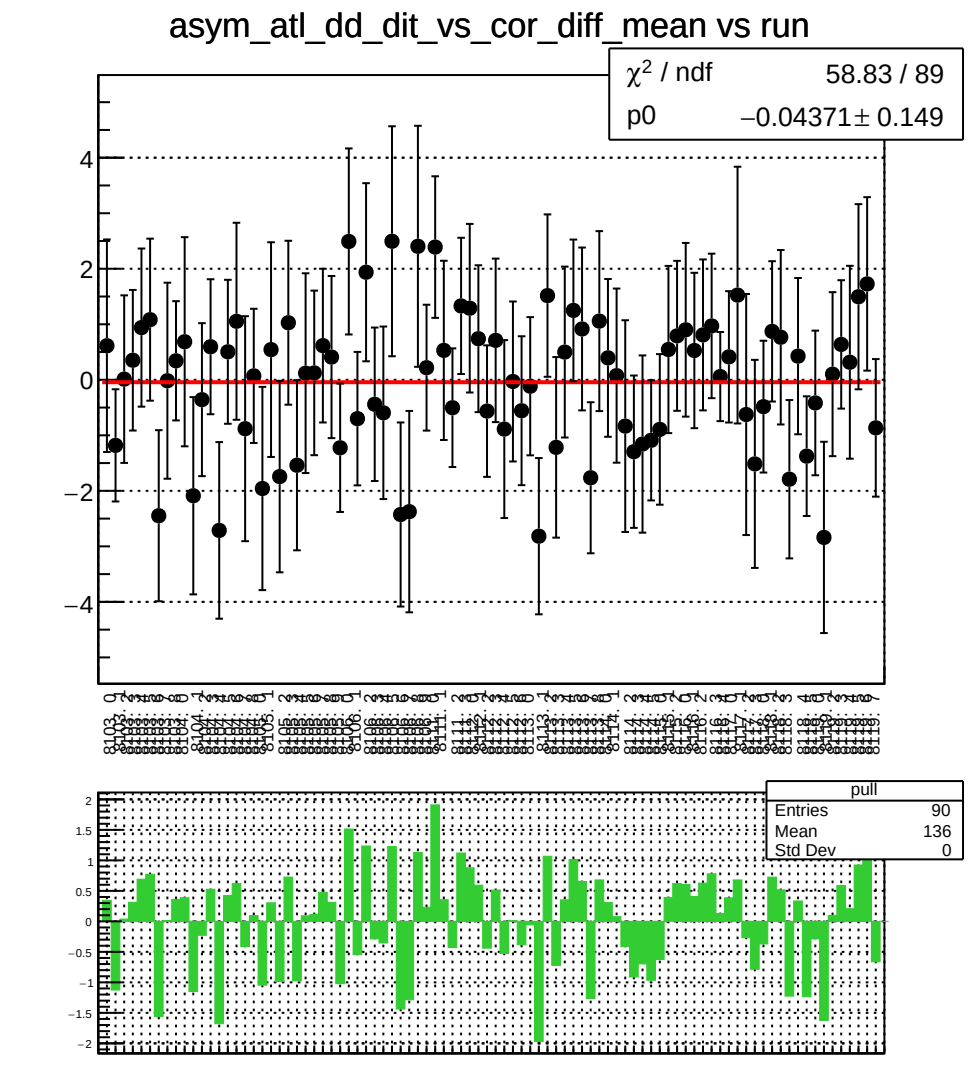

asym_atl_dd_mean vs run
×10^3
χ² / ndf 85.77 / 89
p0 4698 ± 5220
pull
Entries 90
Mean 715.2
Std Dev 0

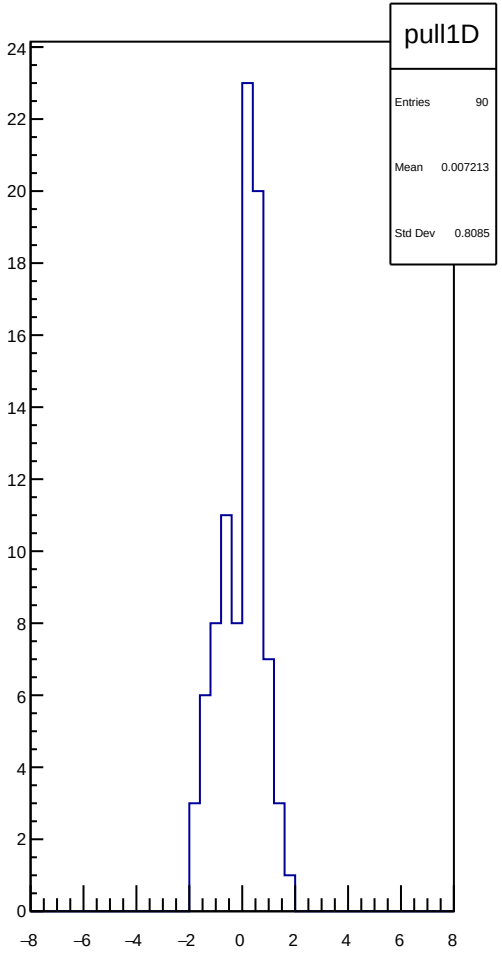

pull1D
Entries 90
Mean 0.01049
Std Dev 0.9762

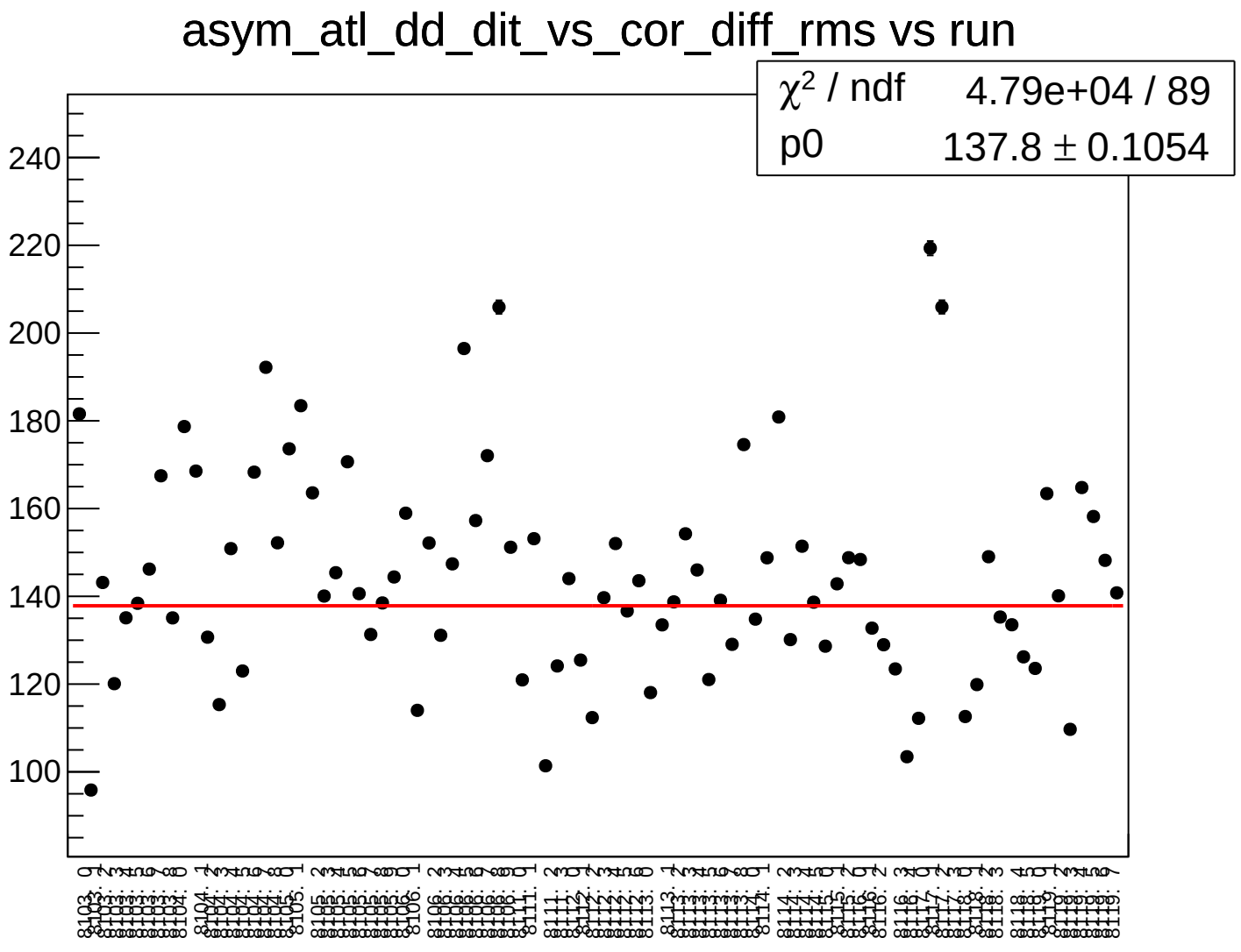

asym_atl_dd_rms vs run
χ² / ndf 2642 / 89
p0 4891 ± 3.691
5600
5400
5200
5000
4800
4600
4400


asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.77 / 89
p0 3.61e−13 ± 5.926e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 90
Mean 9.544
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.1001
Std Dev 0.9361
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

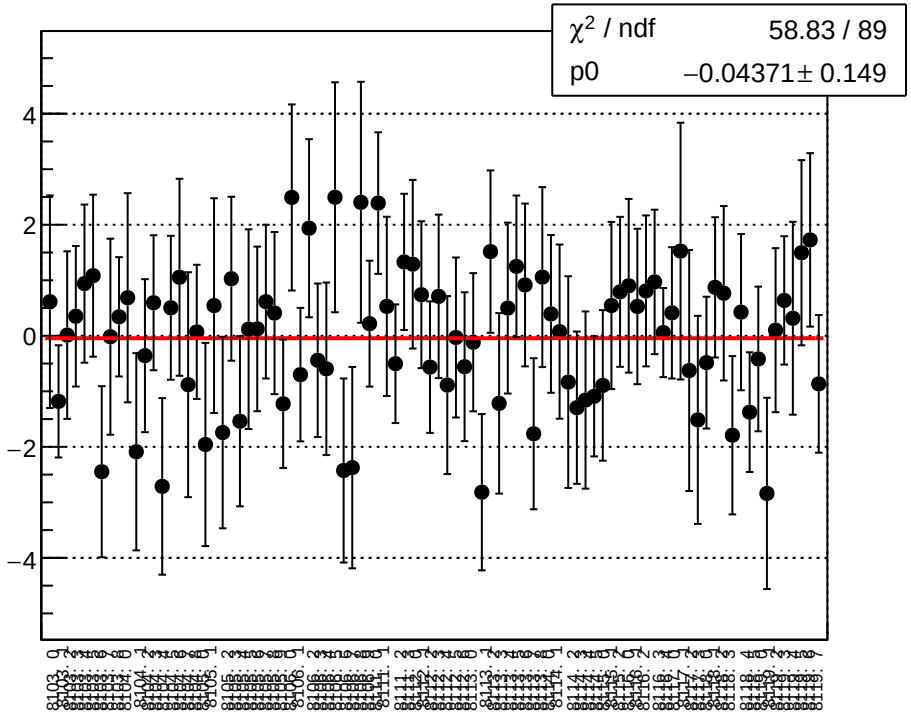

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.053e+06 / 89
p0 3.521e−10 ± 4.191e−13
1
0.8
0.6
0.4
0.2
0

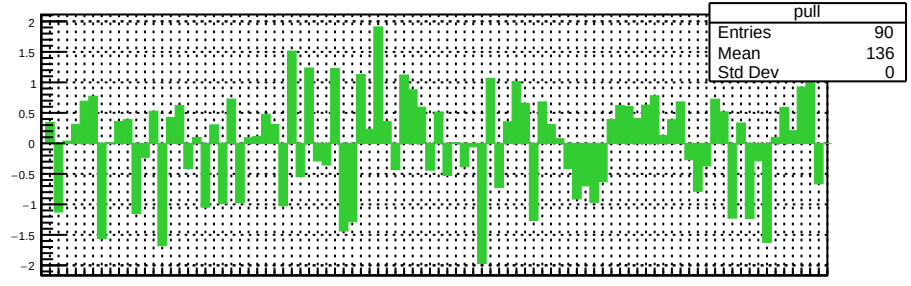

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 58.83 / 89
p0 −0.04371 ± 0.149
pull
Entries 90
Mean 136
Std Dev 0

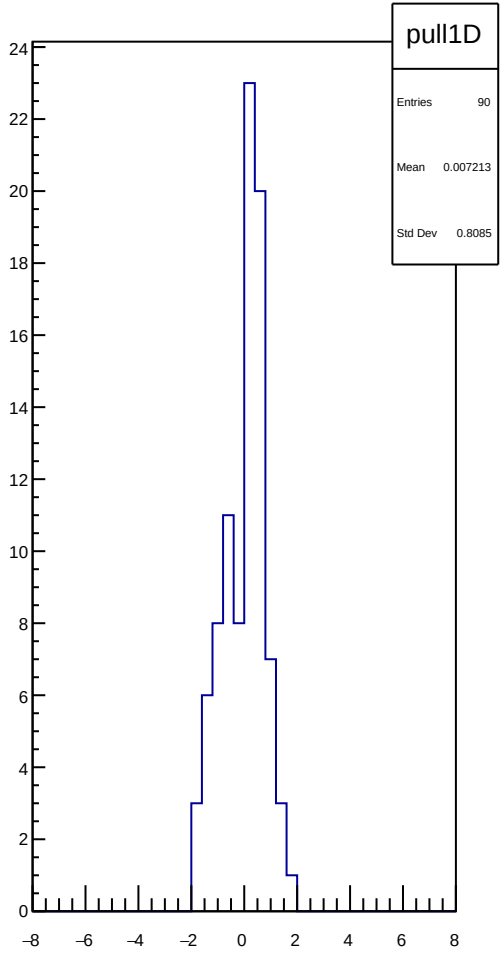

pull1D
Entries 90
Mean 0.007213
Std Dev 0.8085

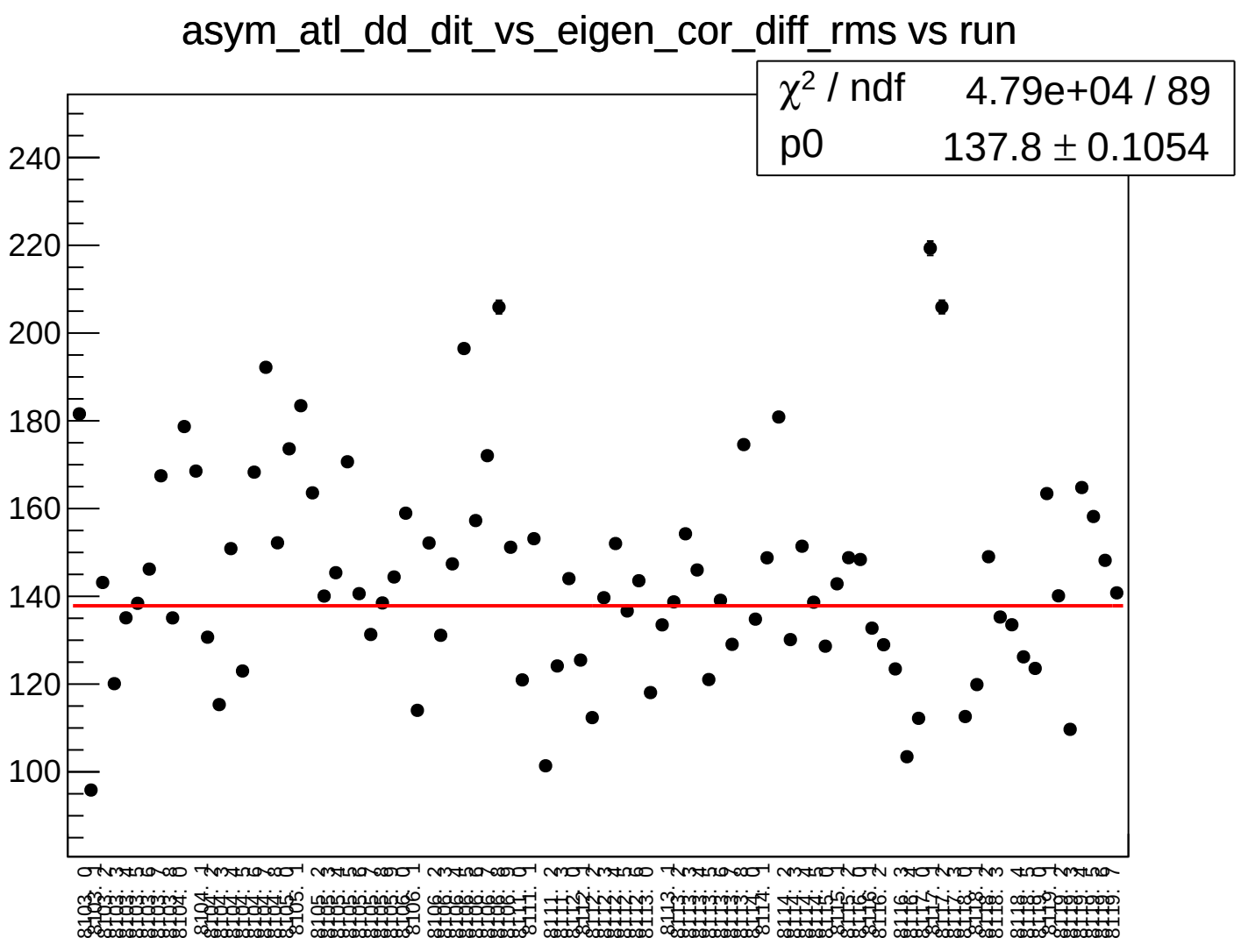

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.79e+04 / 89
p0 137.8 ± 0.1054
240
220
200
180
160
140
120
100

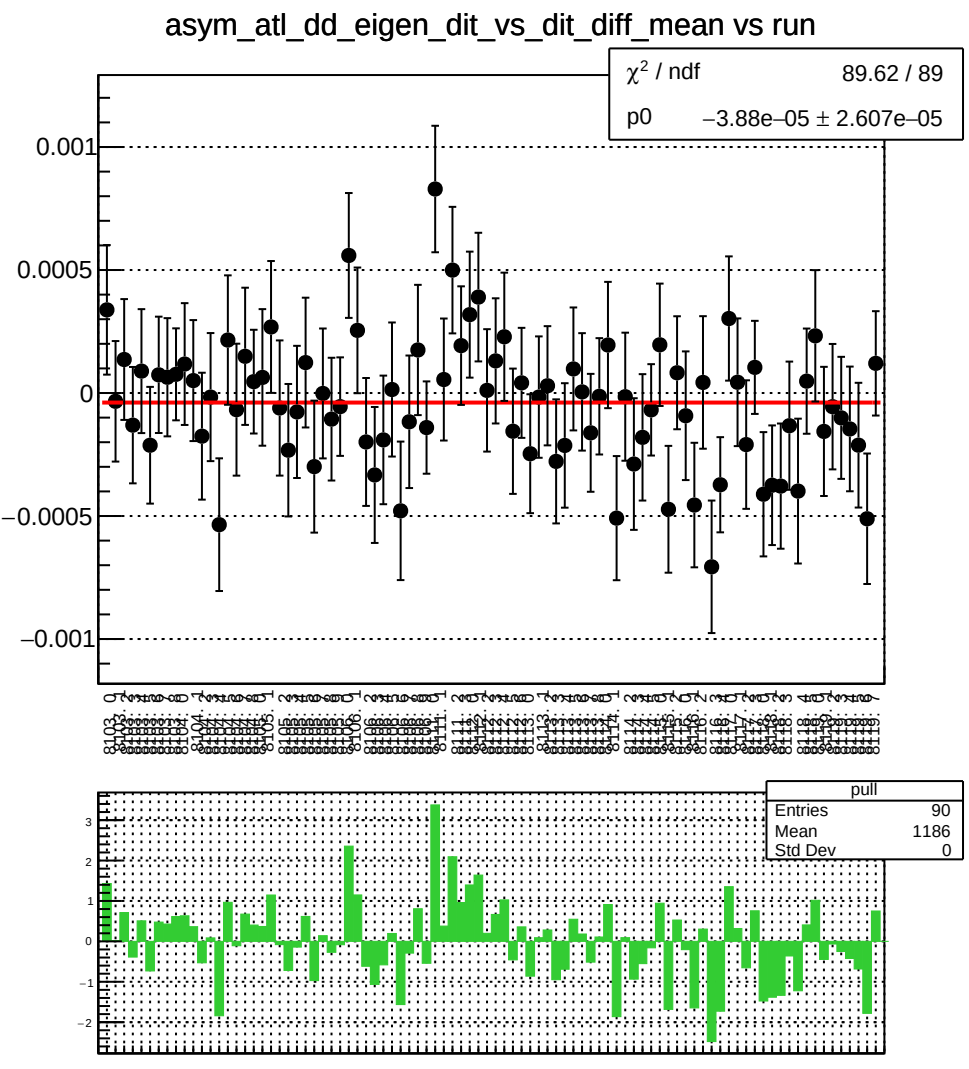
asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run

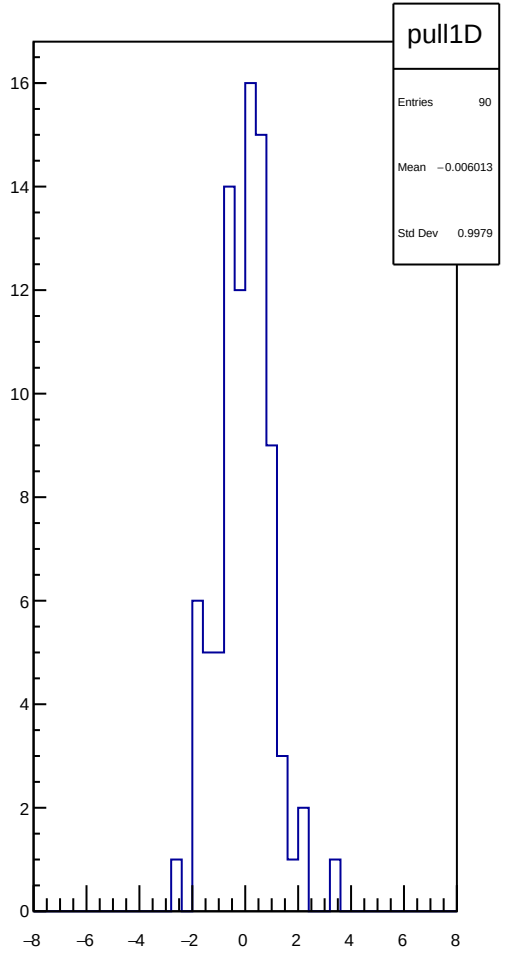


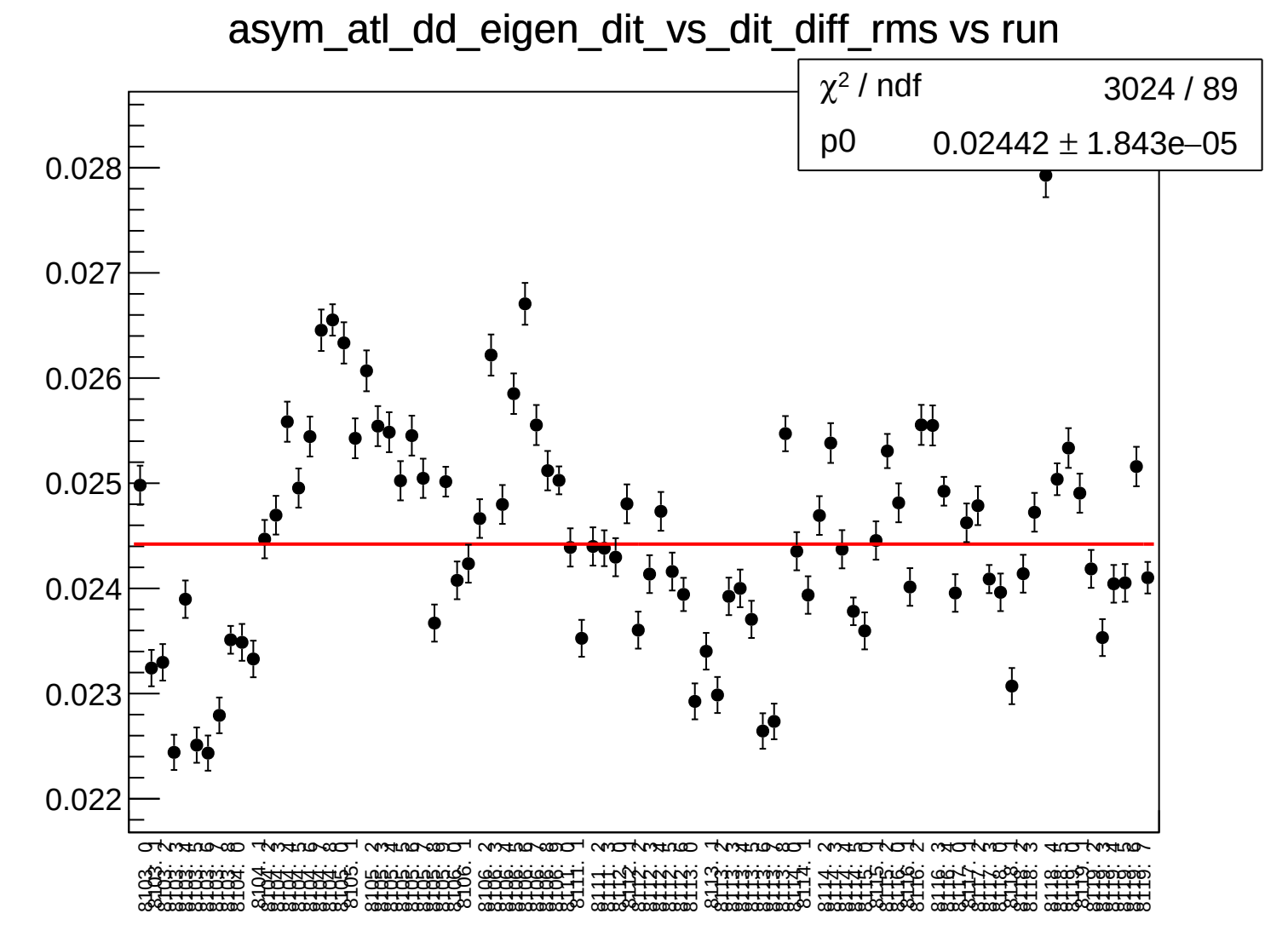


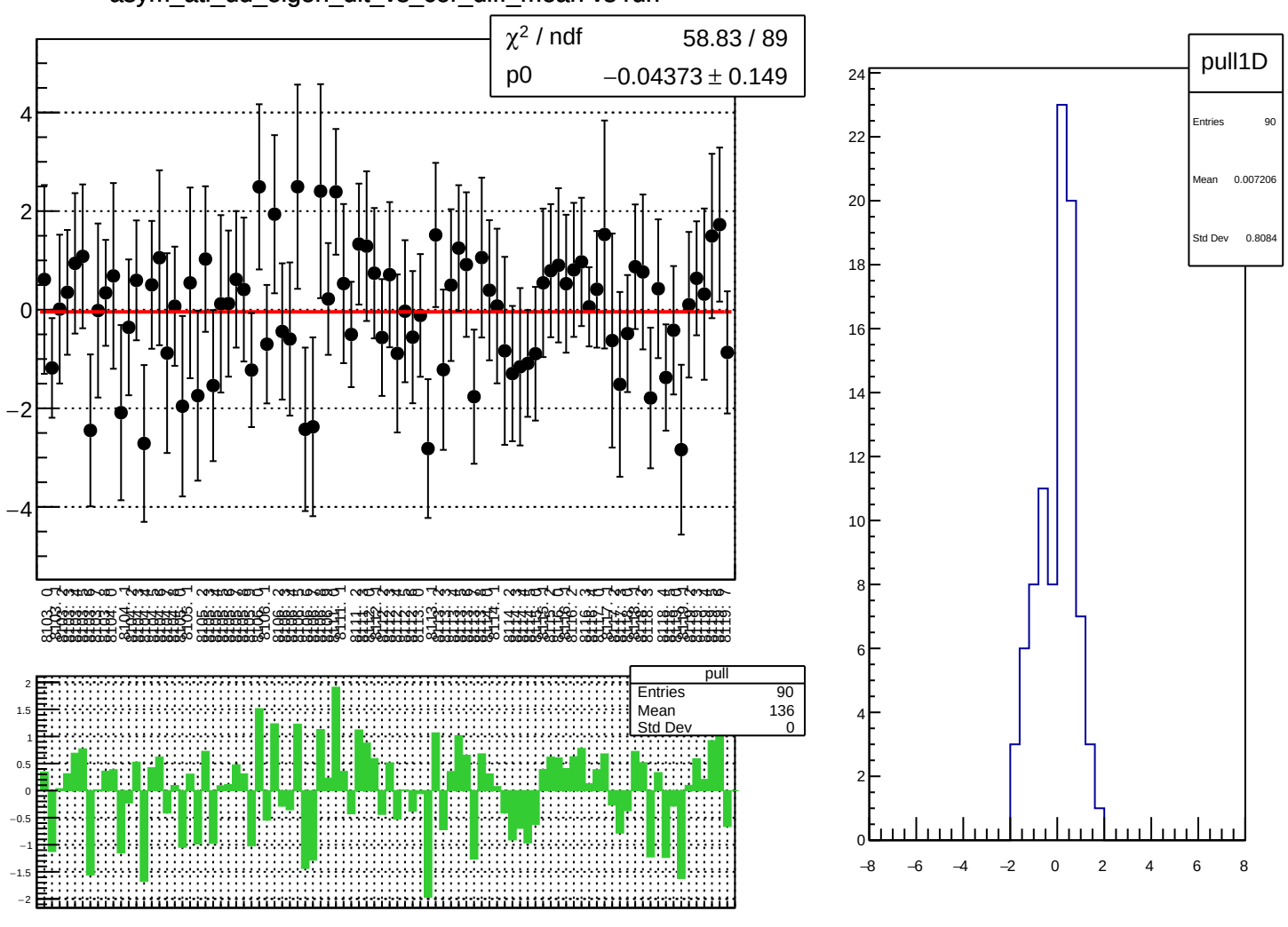


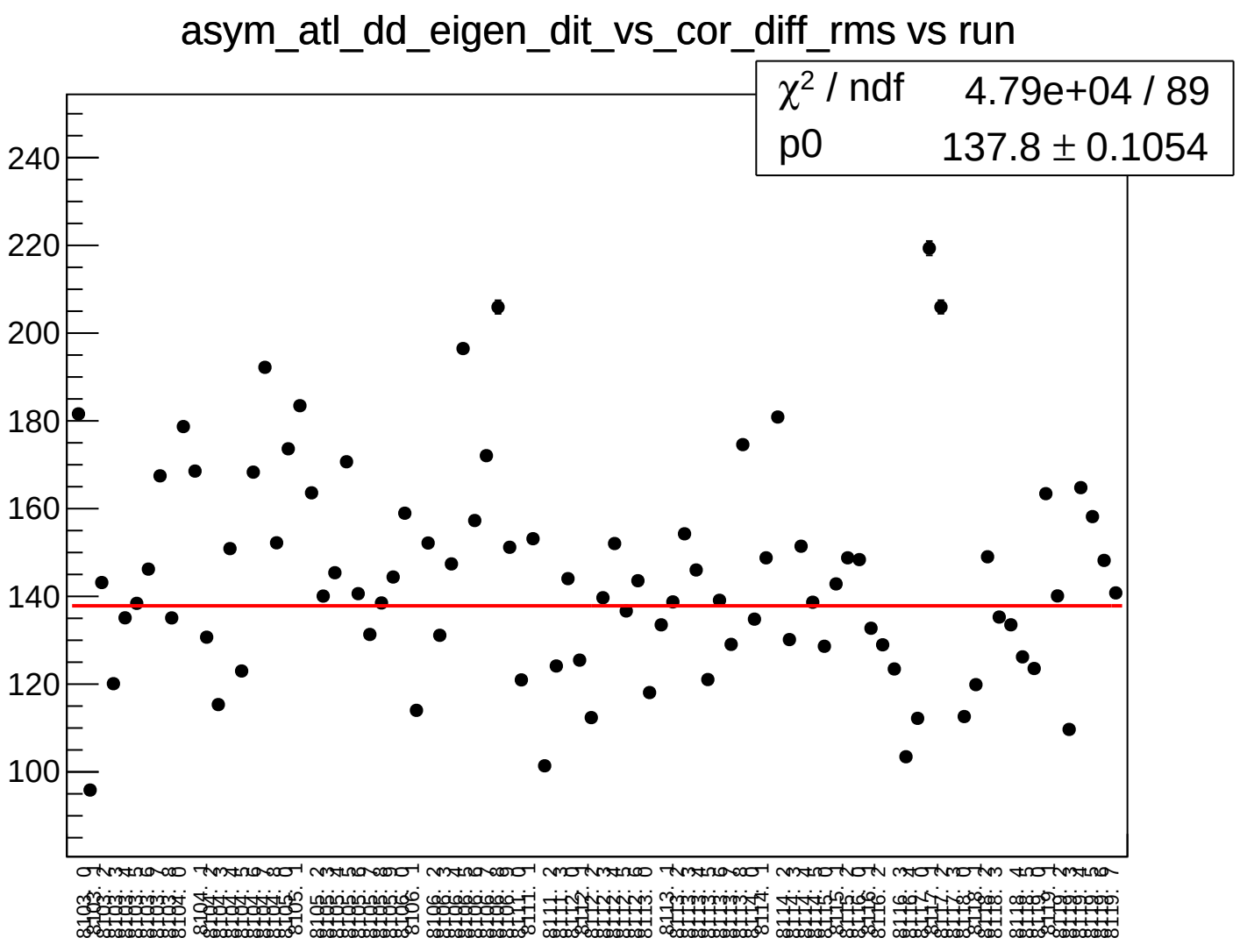

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.79e+04 / 89
p0 137.8 ± 0.1054
240
220
200
180
160
140
120
100

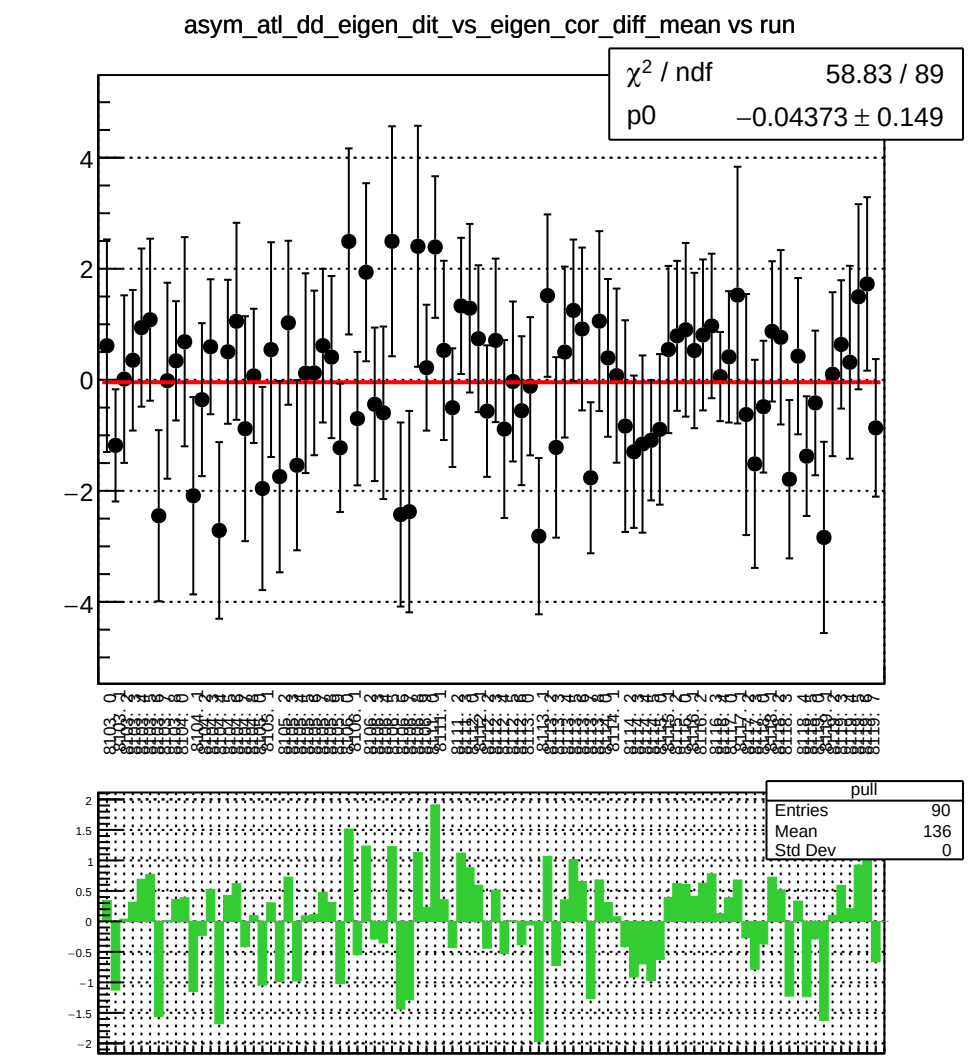

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.62 / 89
p0 −3.88e−05 ± 2.607e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 1186
Std Dev 0
3
2
1
0
−1
−2

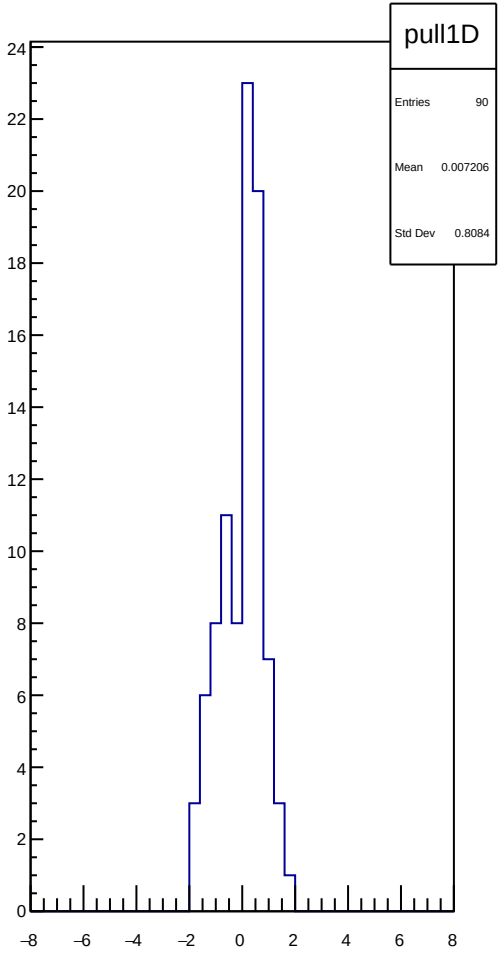

pull1D
Entries 90
Mean −0.006013
Std Dev 0.9979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

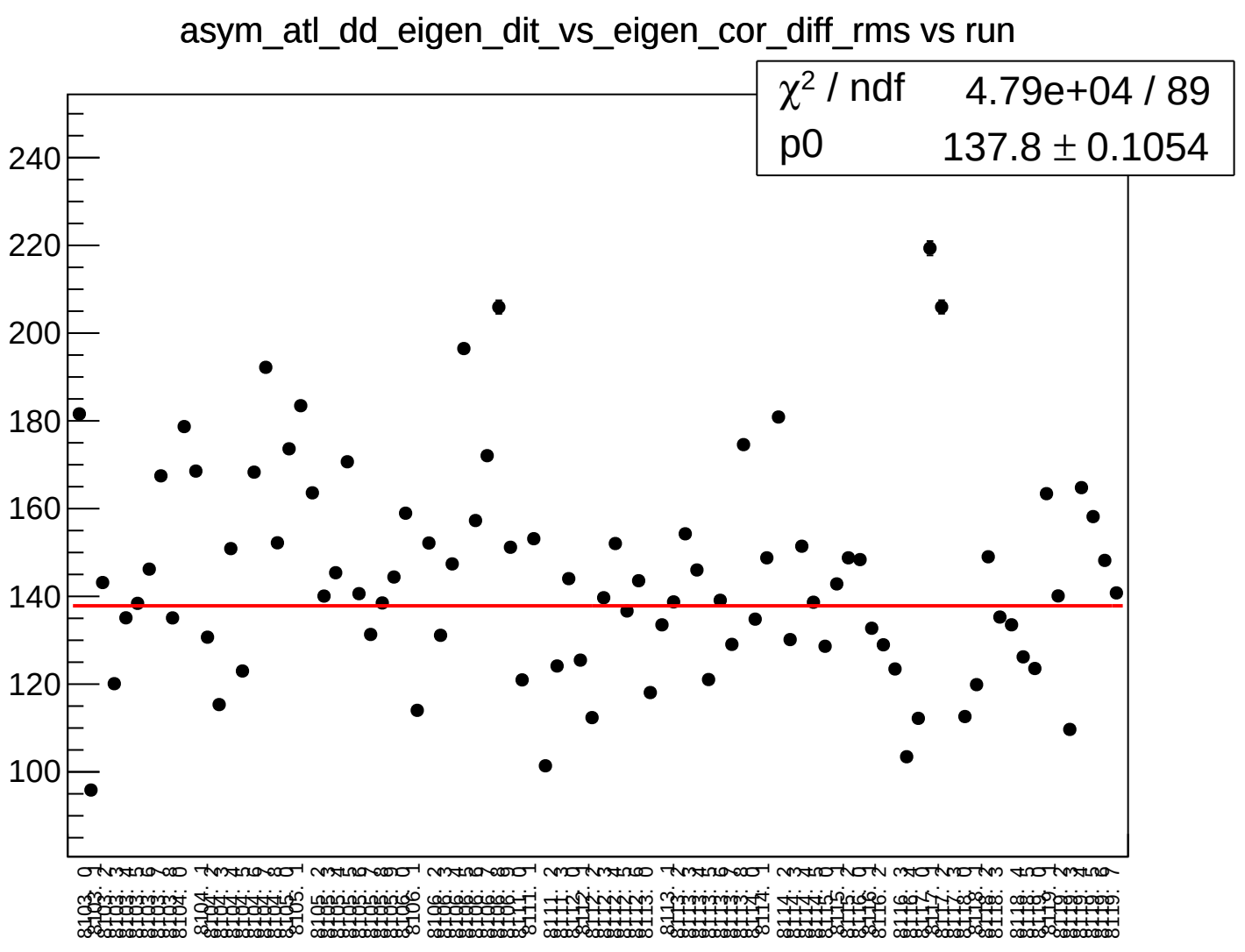

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3024 / 89
p0 0.02442 ± 1.843e−05
0.028
0.027
0.026
0.025
0.024
0.023
0.022

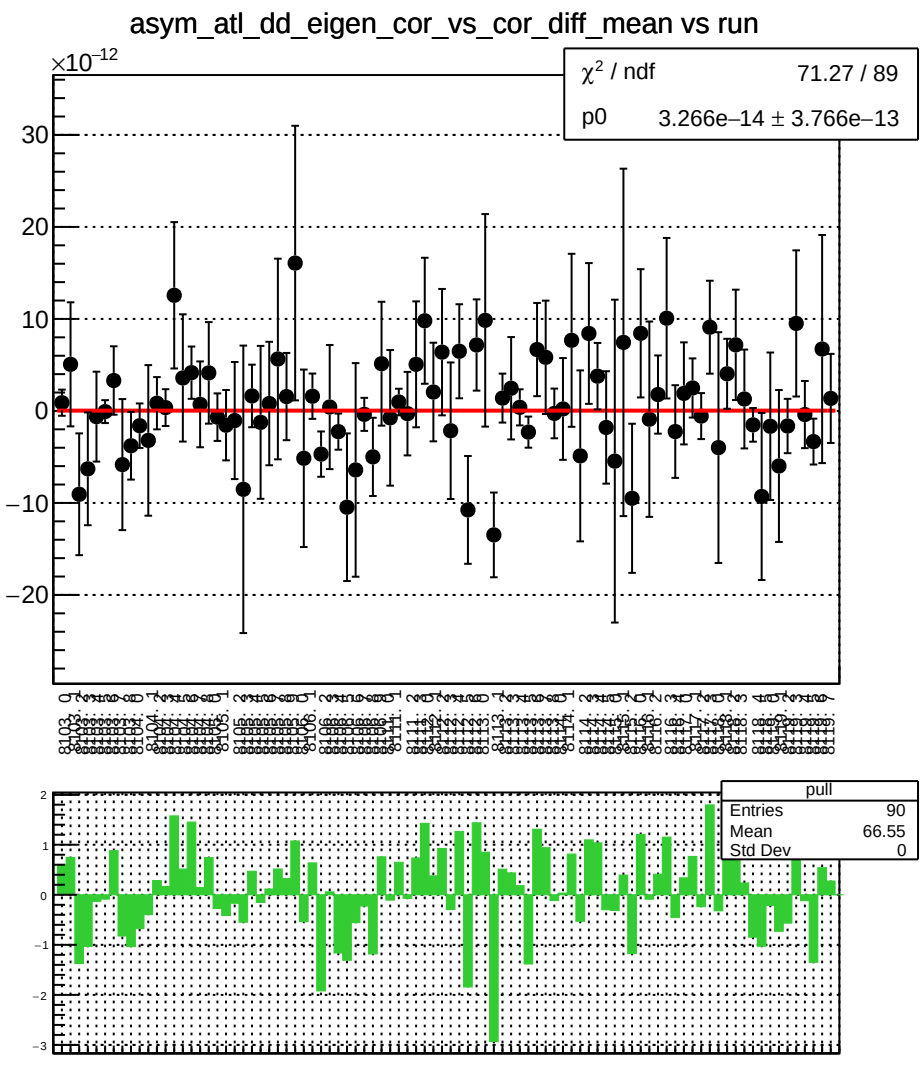

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 58.83 / 89
p0 −0.04373 ± 0.149
pull
Entries 90
Mean 136
Std Dev 0
pull1D
Entries 90
Mean 0.007206
Std Dev 0.8084

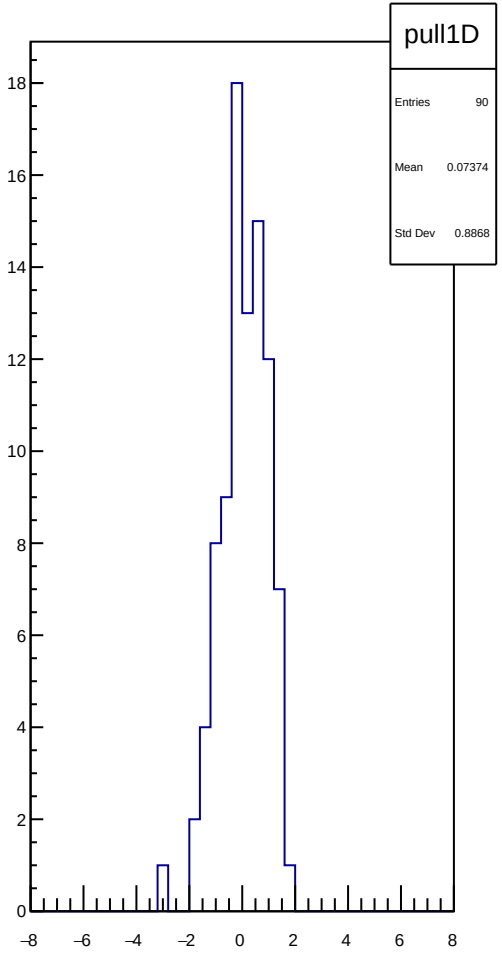

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.79e+04 / 89
p0 137.8 ± 0.1054
240
220
200
180
160
140
120
100

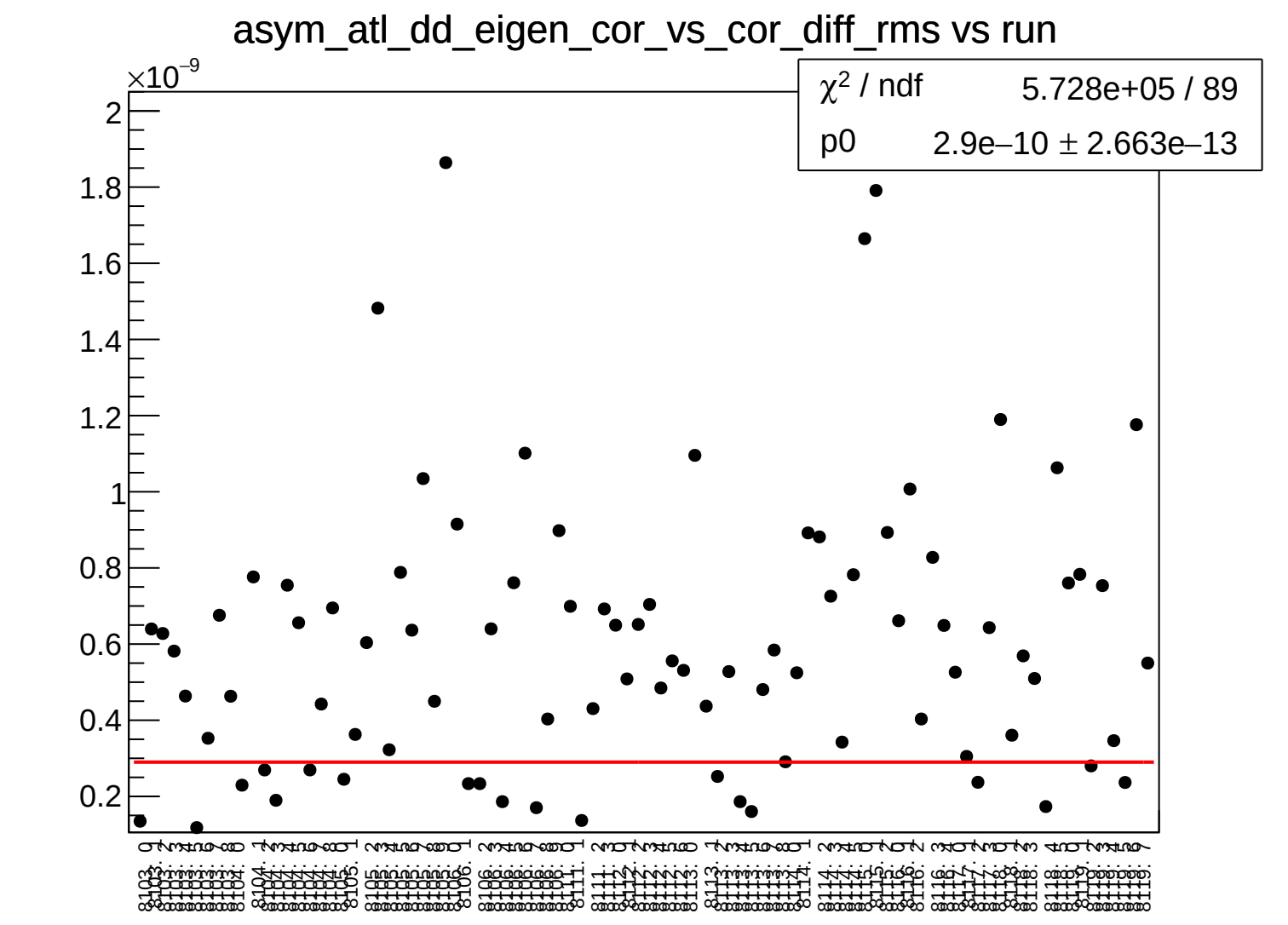

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.83 / 89
p0 −0.04373 ± 0.149
pull
Entries 90
Mean 136
Std Dev 0

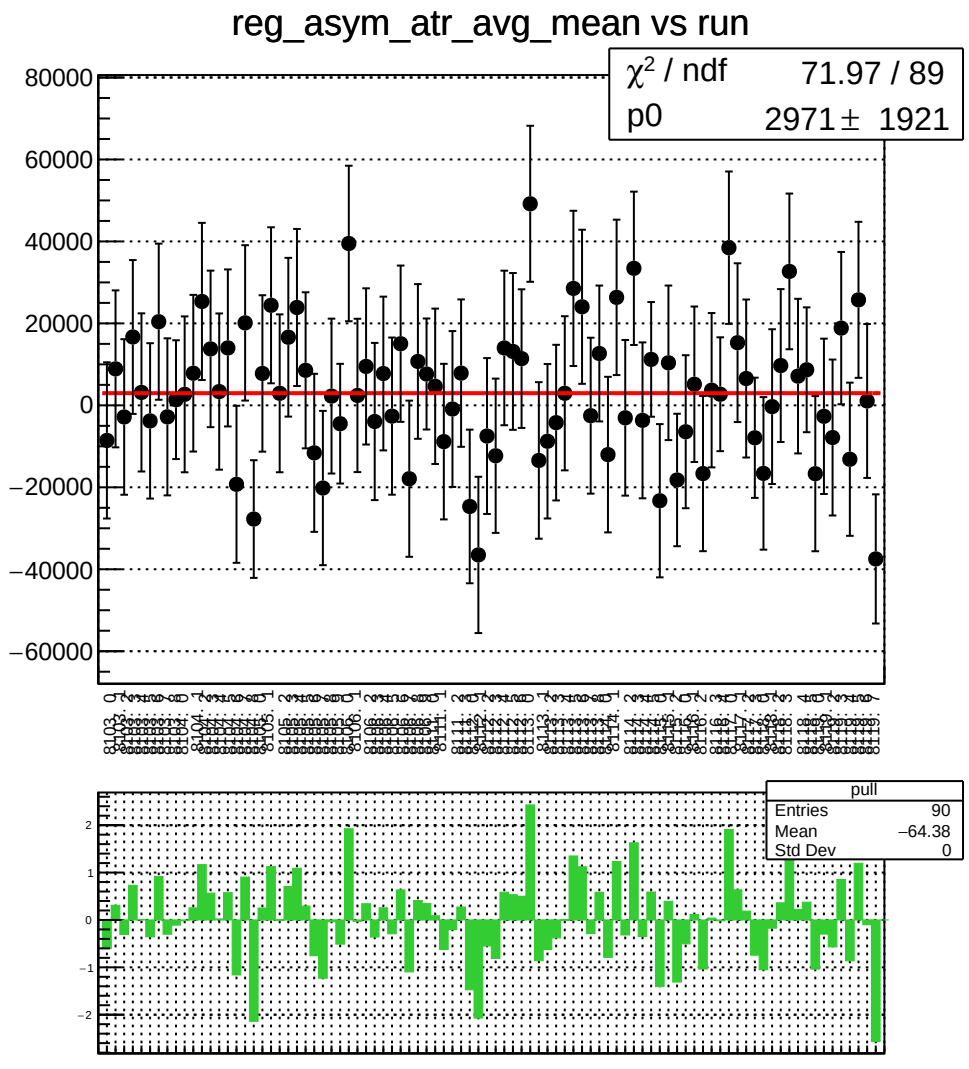

pull1D
Entries 90
Mean 0.007206
Std Dev 0.8084

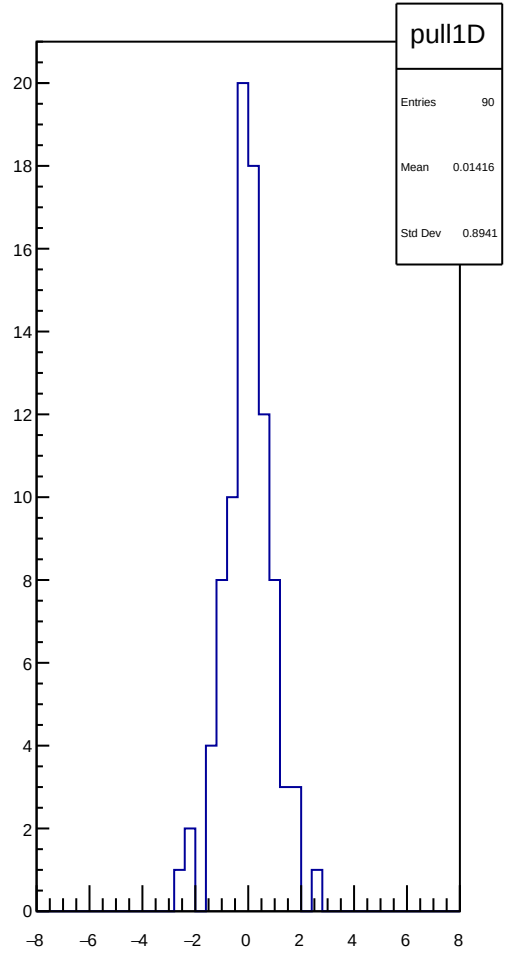

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.79e+04 / 89
p0 137.8 ± 0.1054
240
220
200
180
160
140
120
100

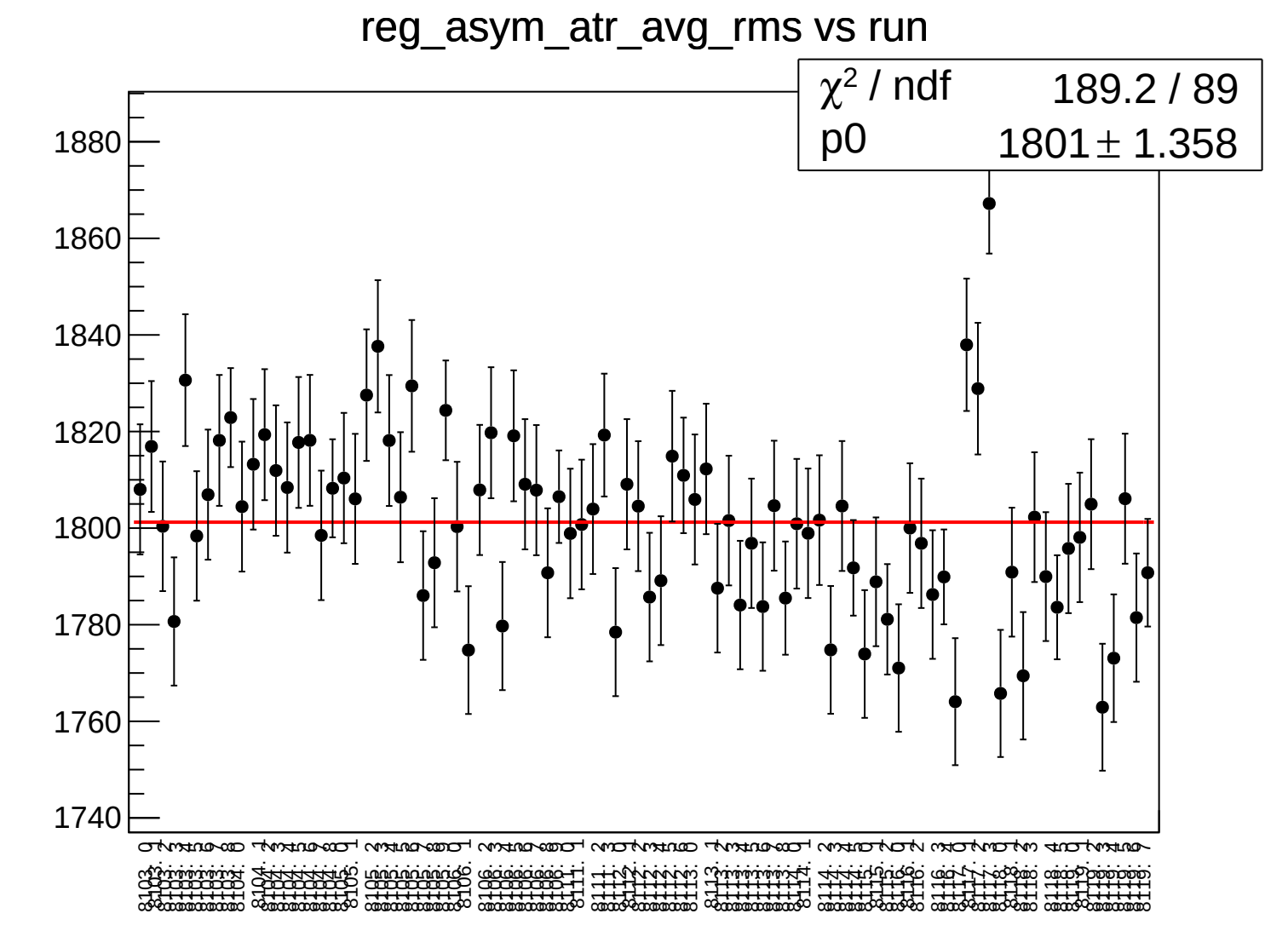

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.27 / 89
p0 3.266e−14 ± 3.766e−13
pull
Entries 90
Mean 66.55
Std Dev 0

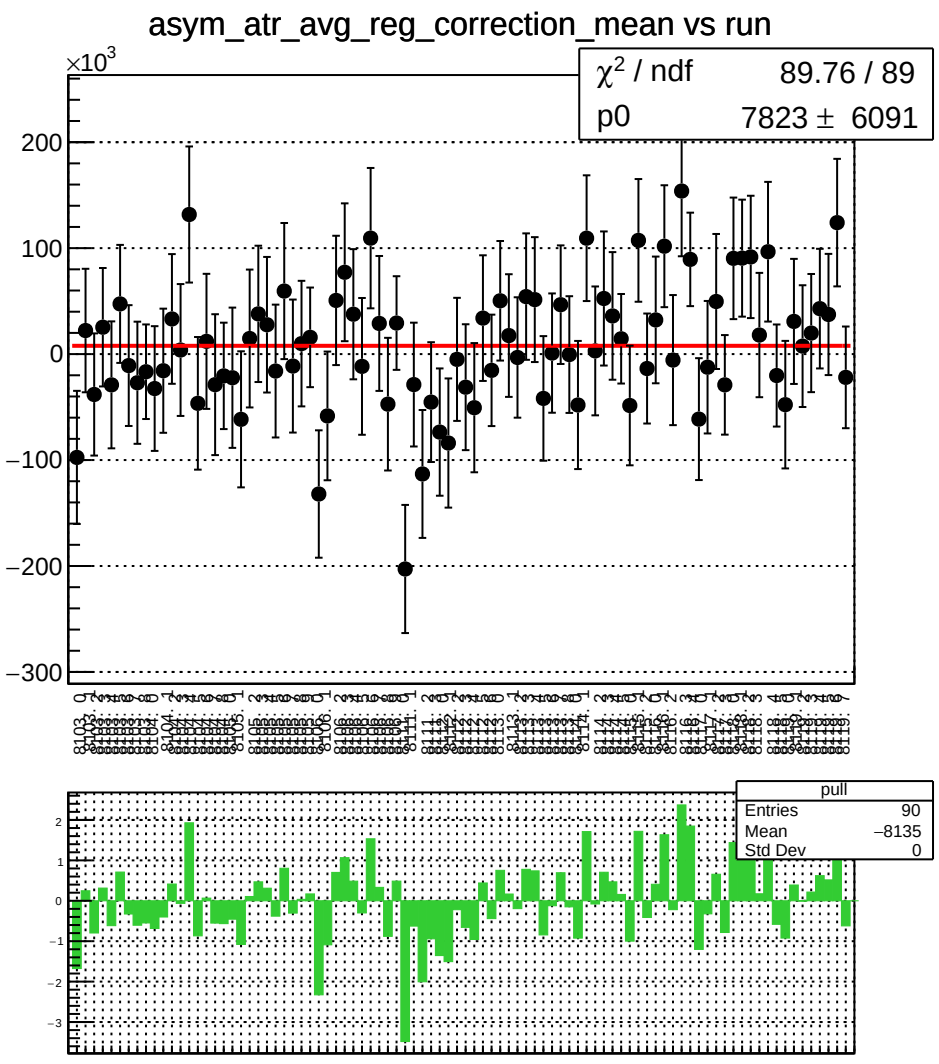

pull1D
Entries 90
Mean 0.07374
Std Dev 0.8868

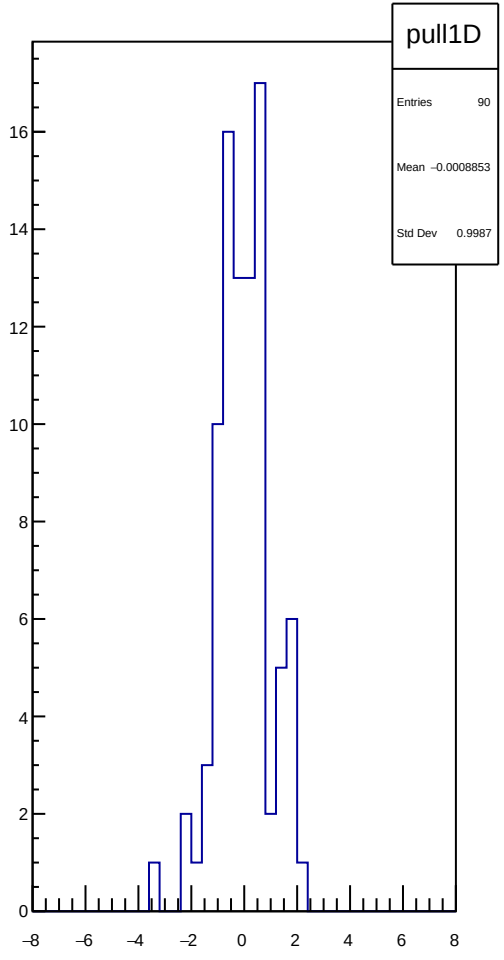

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.728e+05 / 89
p0 2.9e−10 ± 2.663e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

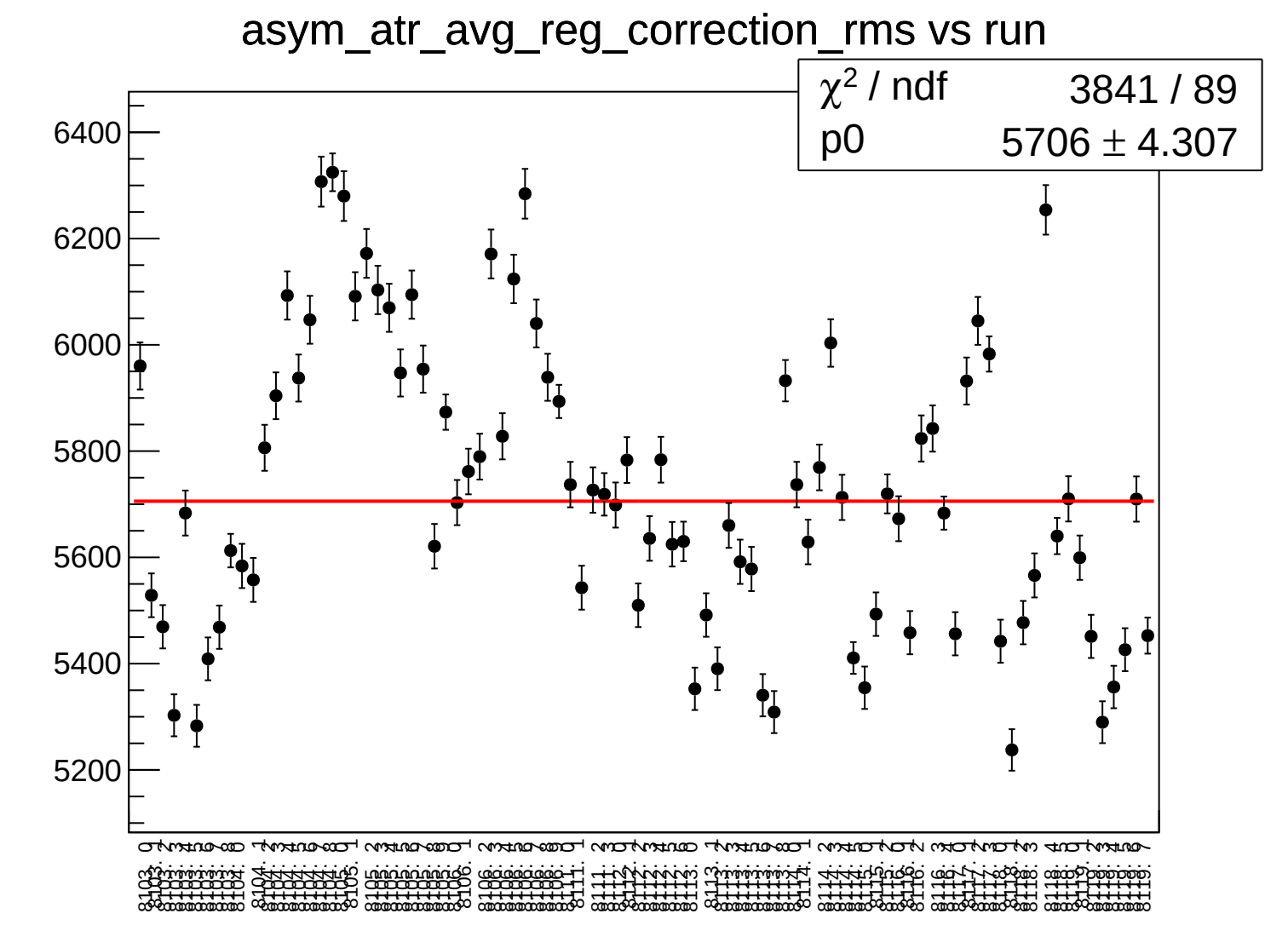

reg_asym_atr_avg_mean vs run
χ² / ndf 71.97 / 89
p0 2971 ± 1921
pull
Entries 90
Mean −64.38
Std Dev 0

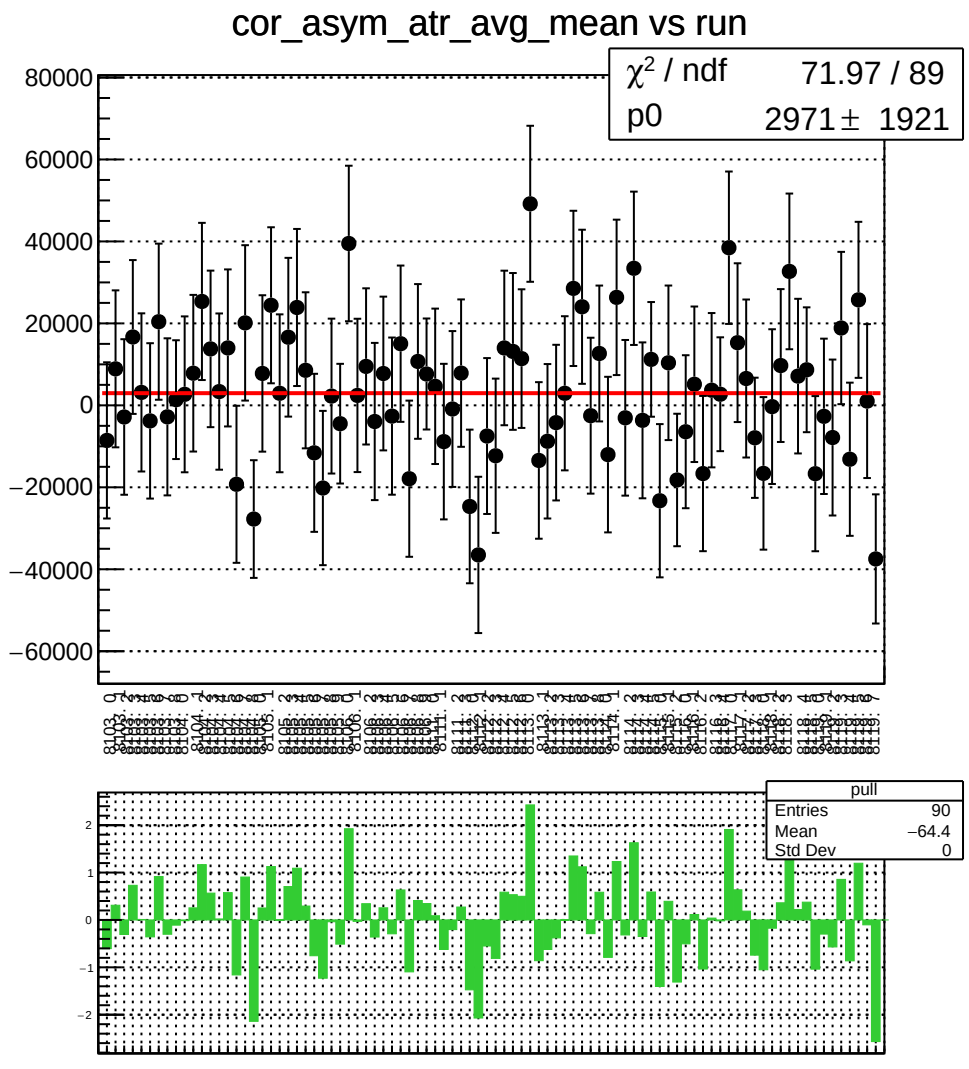

pull1D
Entries 90
Mean 0.01416
Std Dev 0.8941

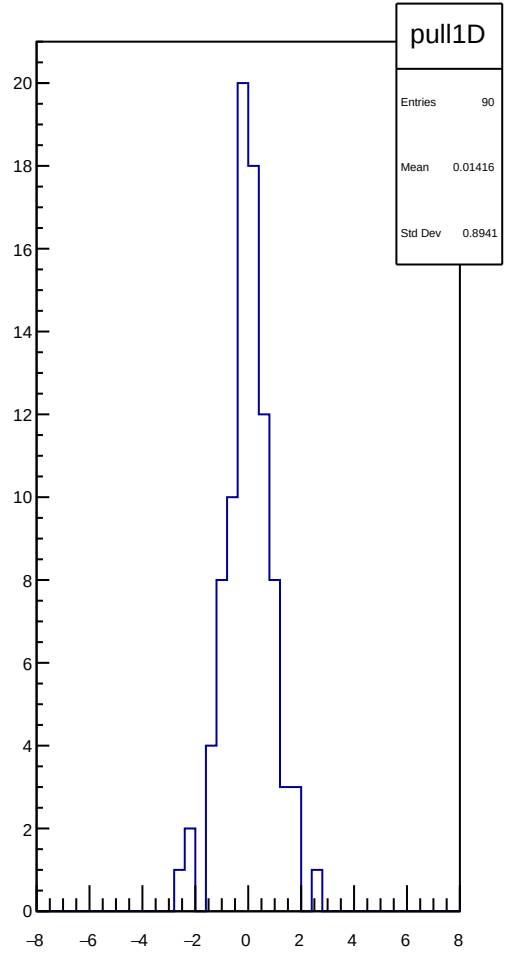

reg_asym_atr_avg_rms vs run
χ^2 / ndf 189.2 / 89
p0 1801 ± 1.358
1880
1860
1840
1820
1800
1780
1760
1740

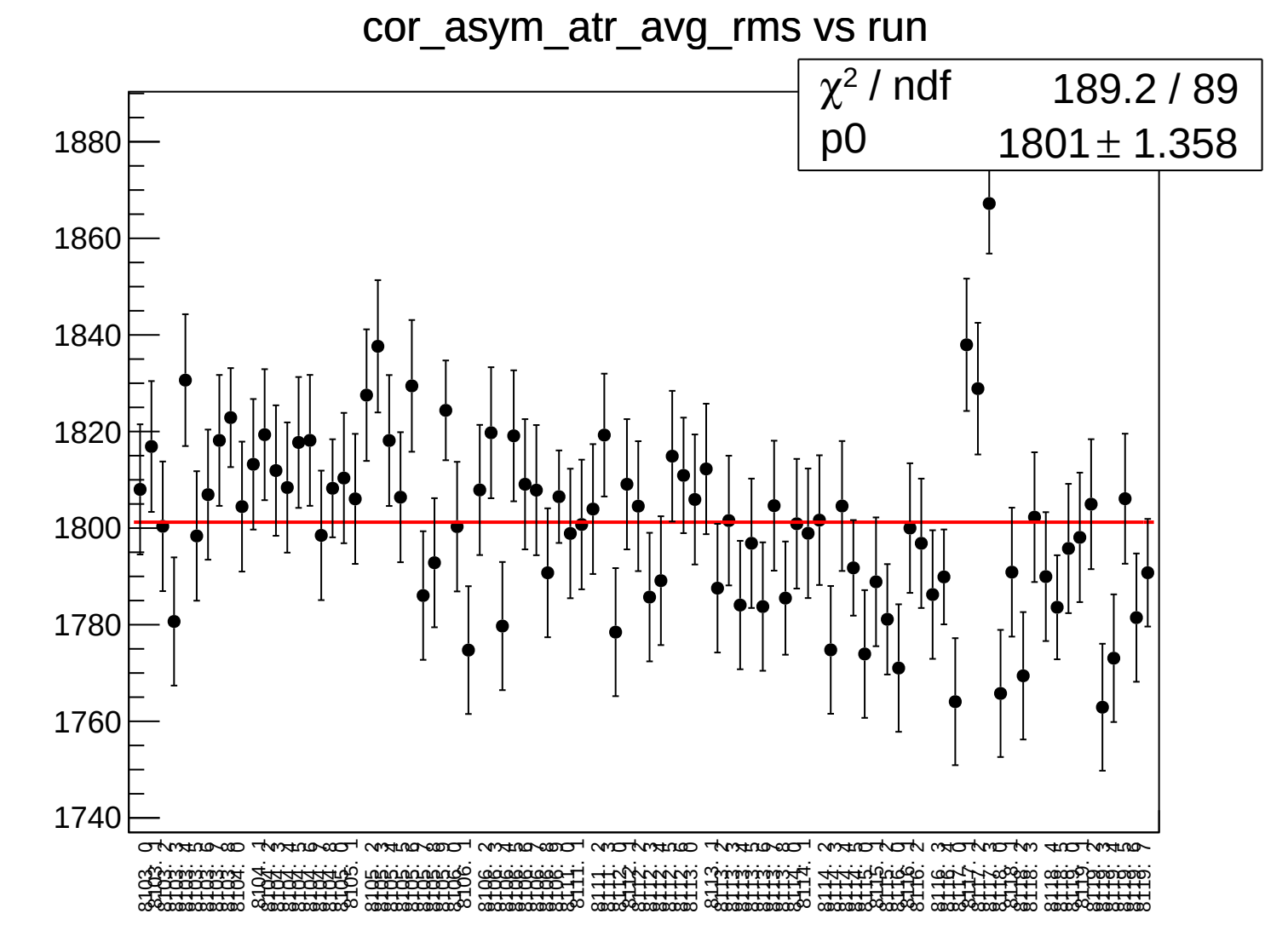

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.76 / 89
p0 7823 ± 6091
200
100
0
−100
−200
−300
pull
Entries 90
Mean −8135
Std Dev 0
2
1
0
−1
−2
−3

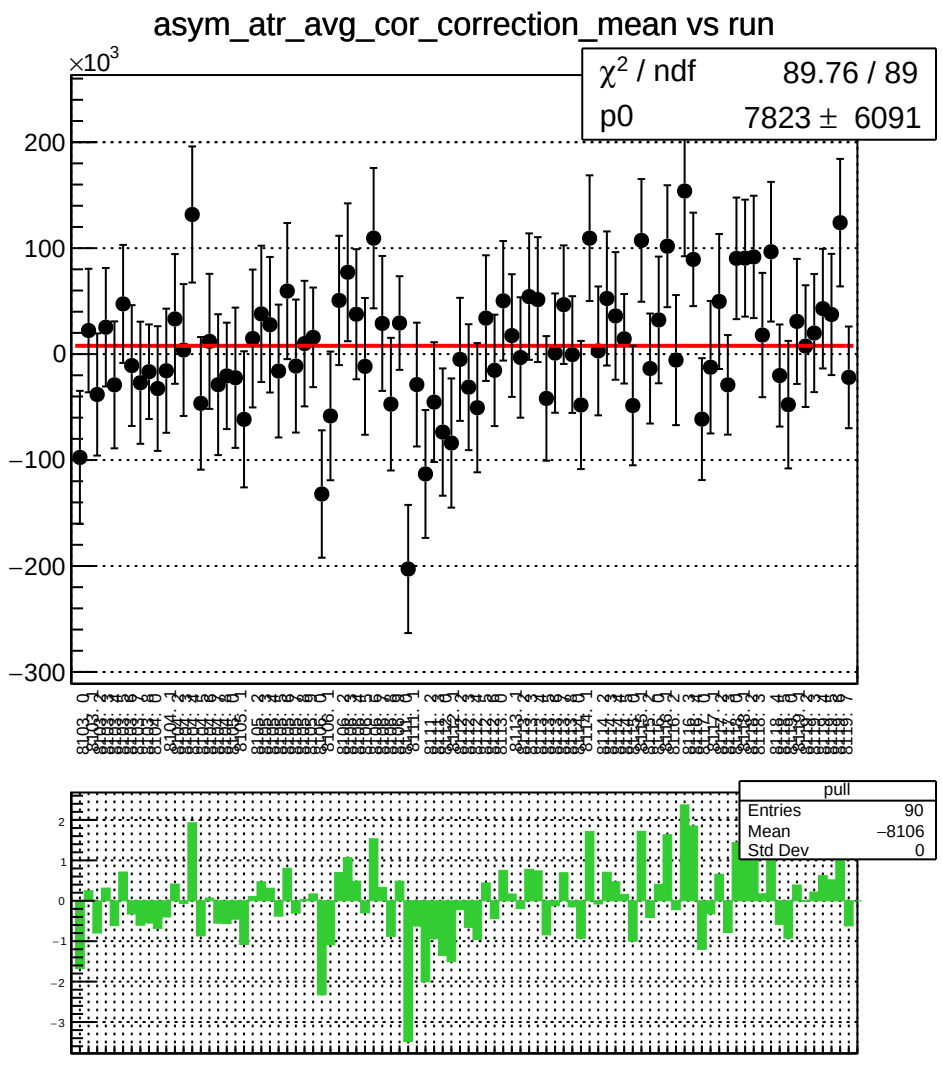

pull1D
Entries 90
Mean −0.0008853
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

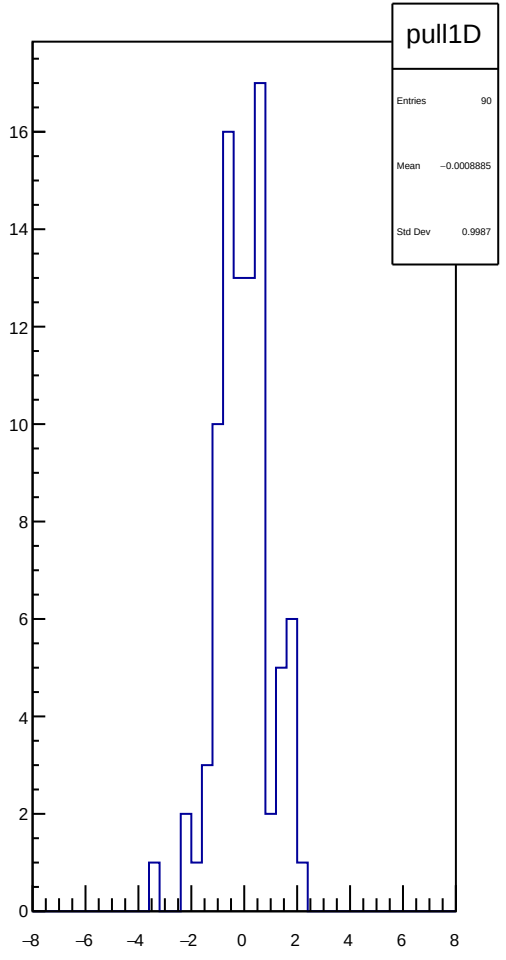

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 3841 / 89
p0 5706 ± 4.307
6400
6200
6000
5800
5600
5400
5200

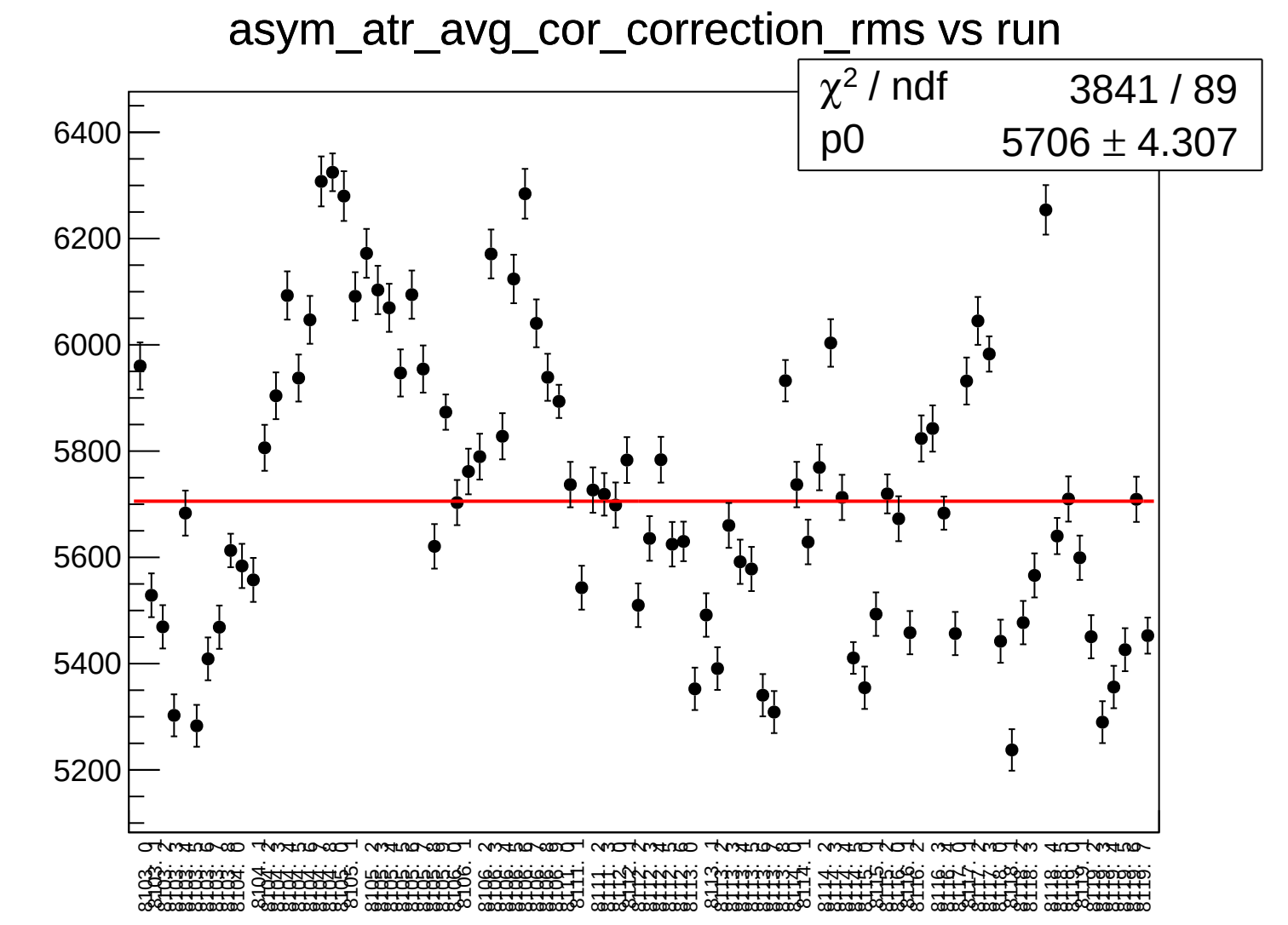

cor_asym_atr_avg_mean vs run
χ² / ndf 71.97 / 89
p0 2971 ± 1921
pull
Entries 90
Mean −64.4
Std Dev 0

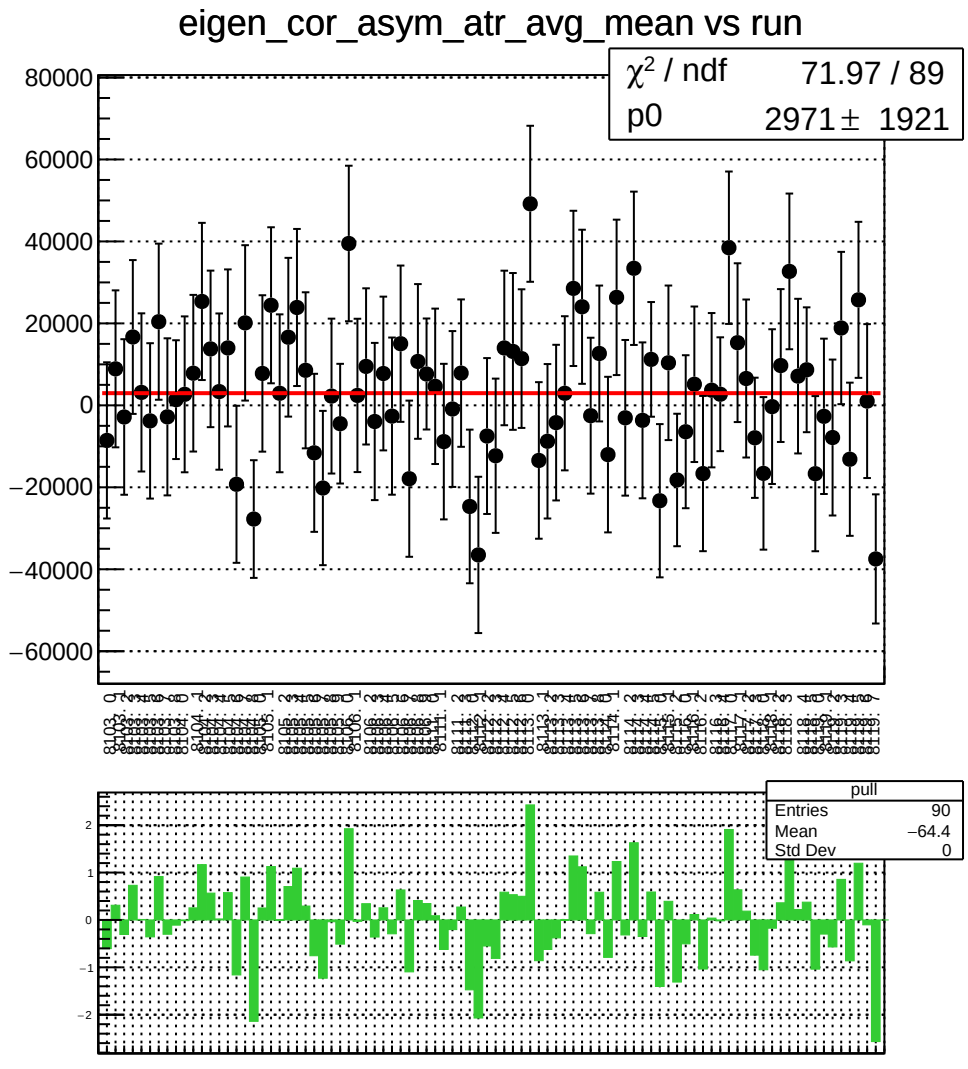

pull1D
Entries 90
Mean 0.01416
Std Dev 0.8941

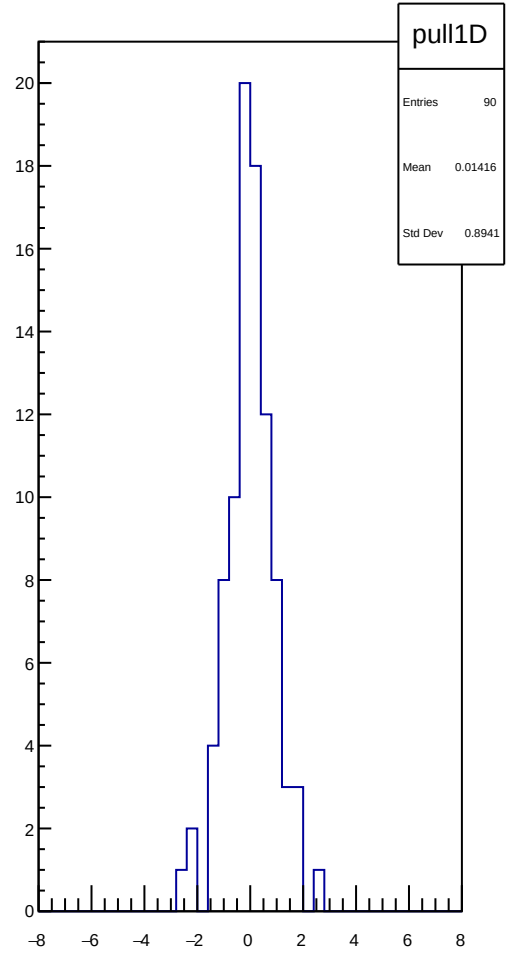

cor_asym_atr_avg_rms vs run
χ^2 / ndf 189.2 / 89
p0 1801 ± 1.358
1880
1860
1840
1820
1800
1780
1760
1740

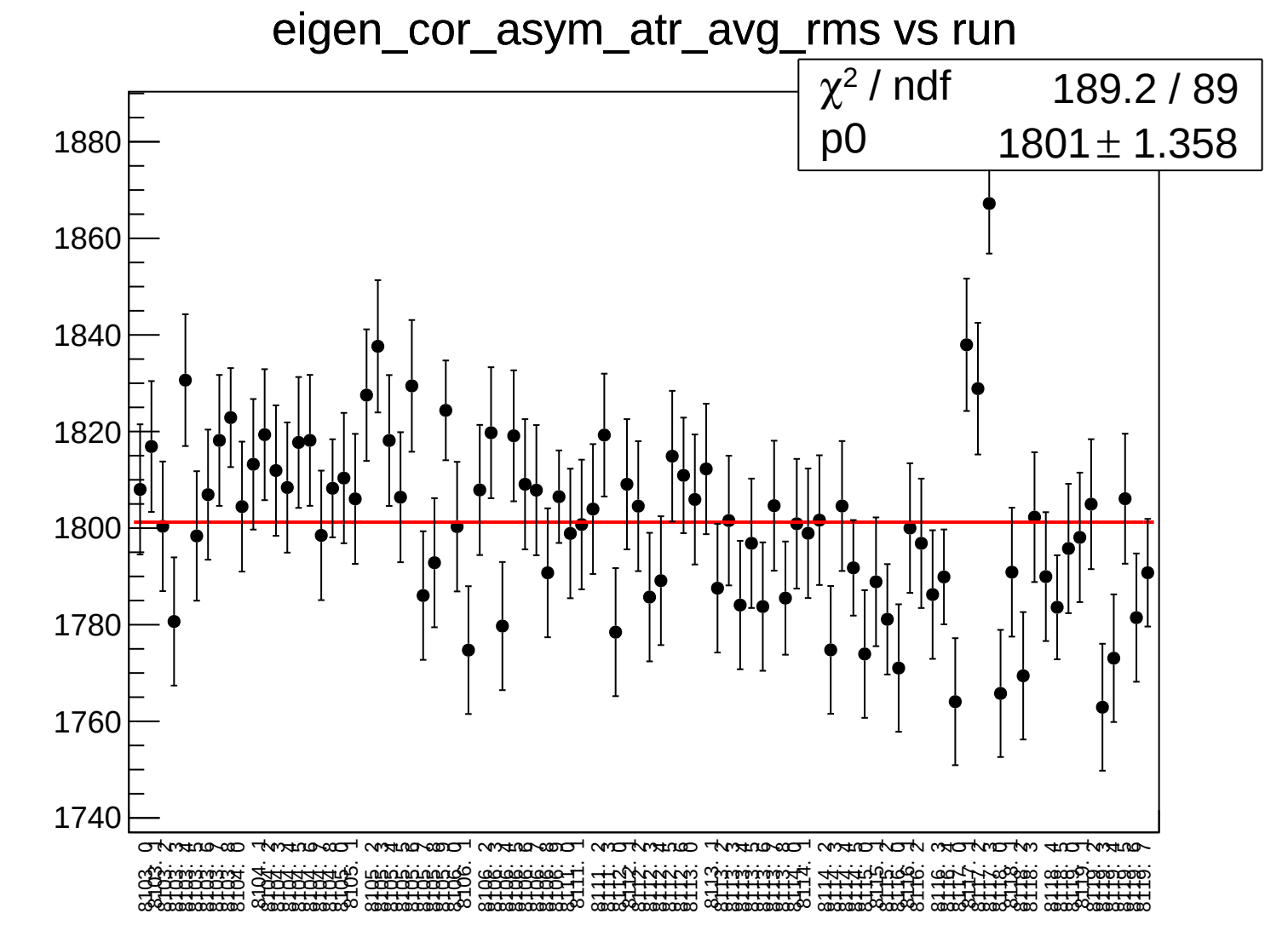

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 89.76 / 89
p0 7823 ± 6091
×10³
200
100
0
−100
−200
−300
pull
Entries 90
Mean −8106
Std Dev 0
2
1
0
−1
−2
−3

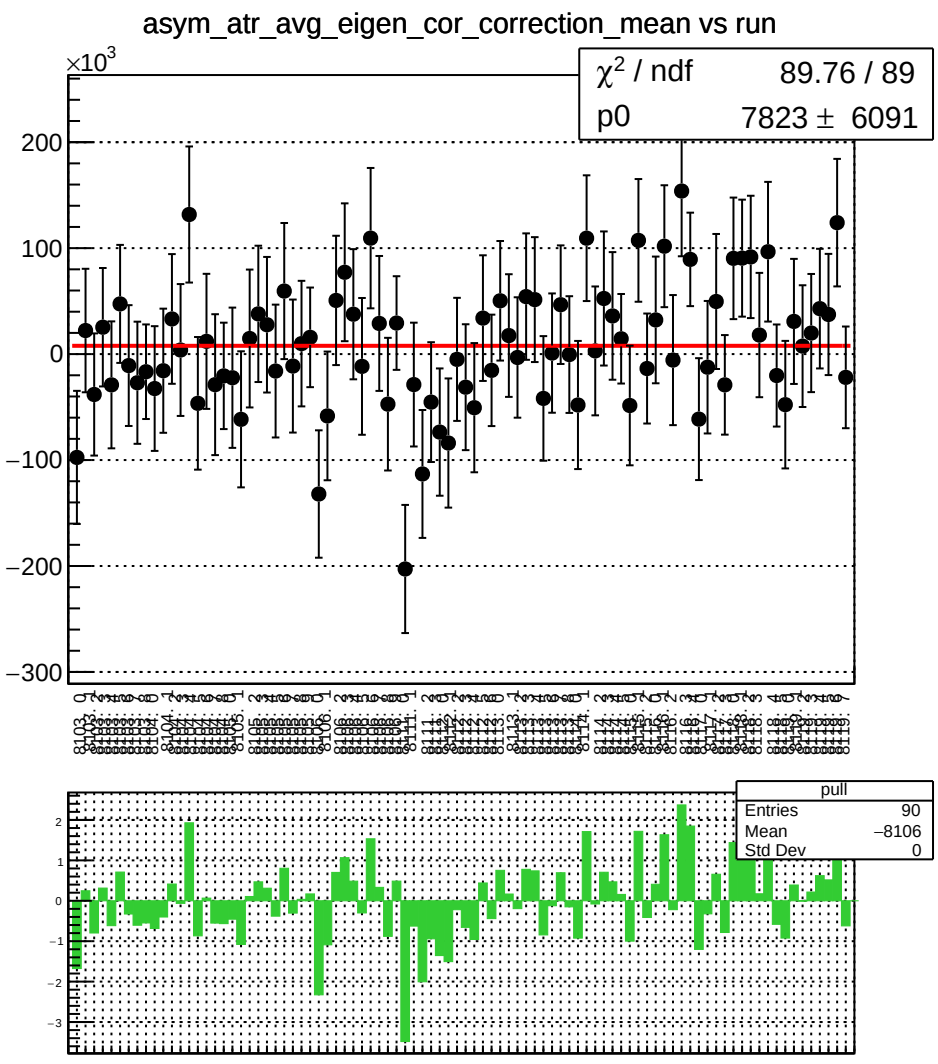

pull1D
Entries 90
Mean −0.0008885
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

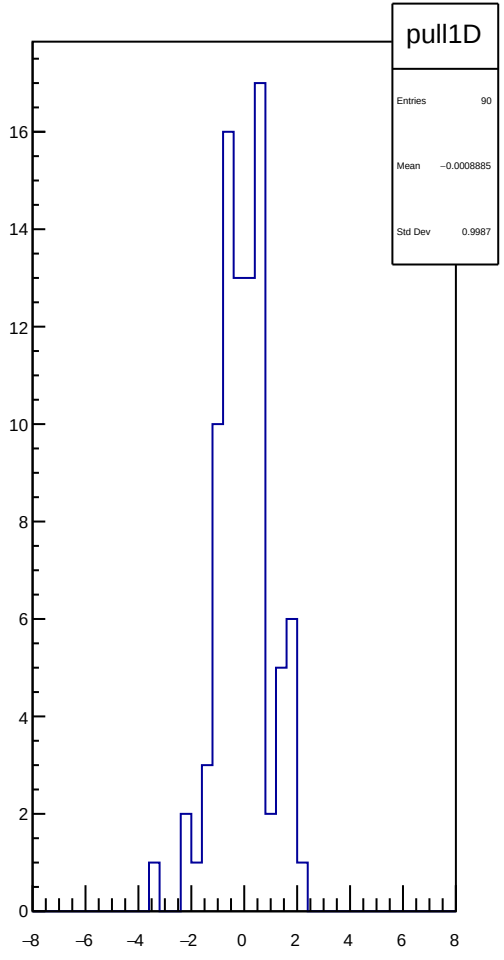

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 3841 / 89
p0 5706 ± 4.307
6400
6200
6000
5800
5600
5400
5200

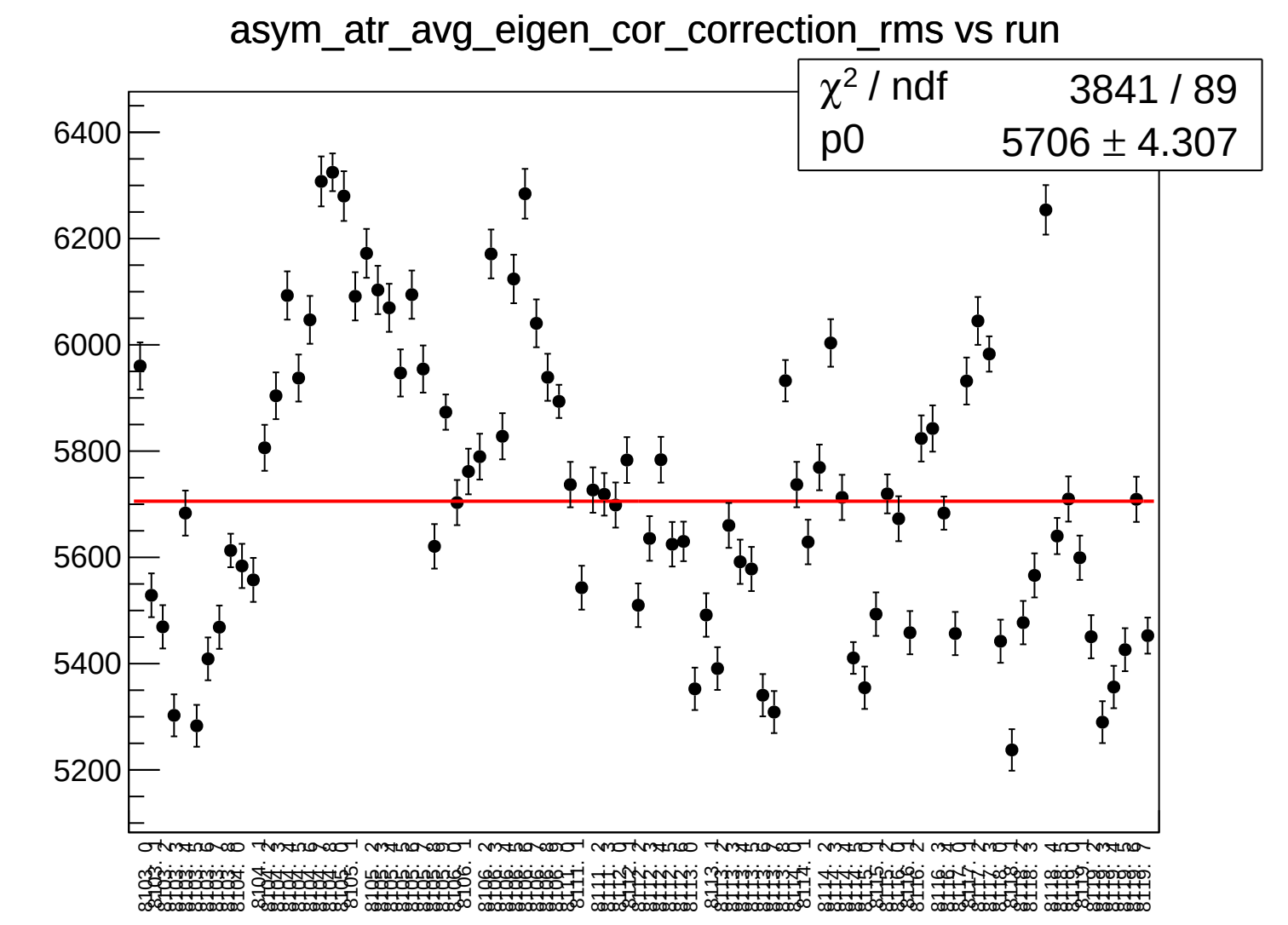

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 71.97 / 89
p0 2971 ± 1921
pull
Entries 90
Mean −64.4
Std Dev 0

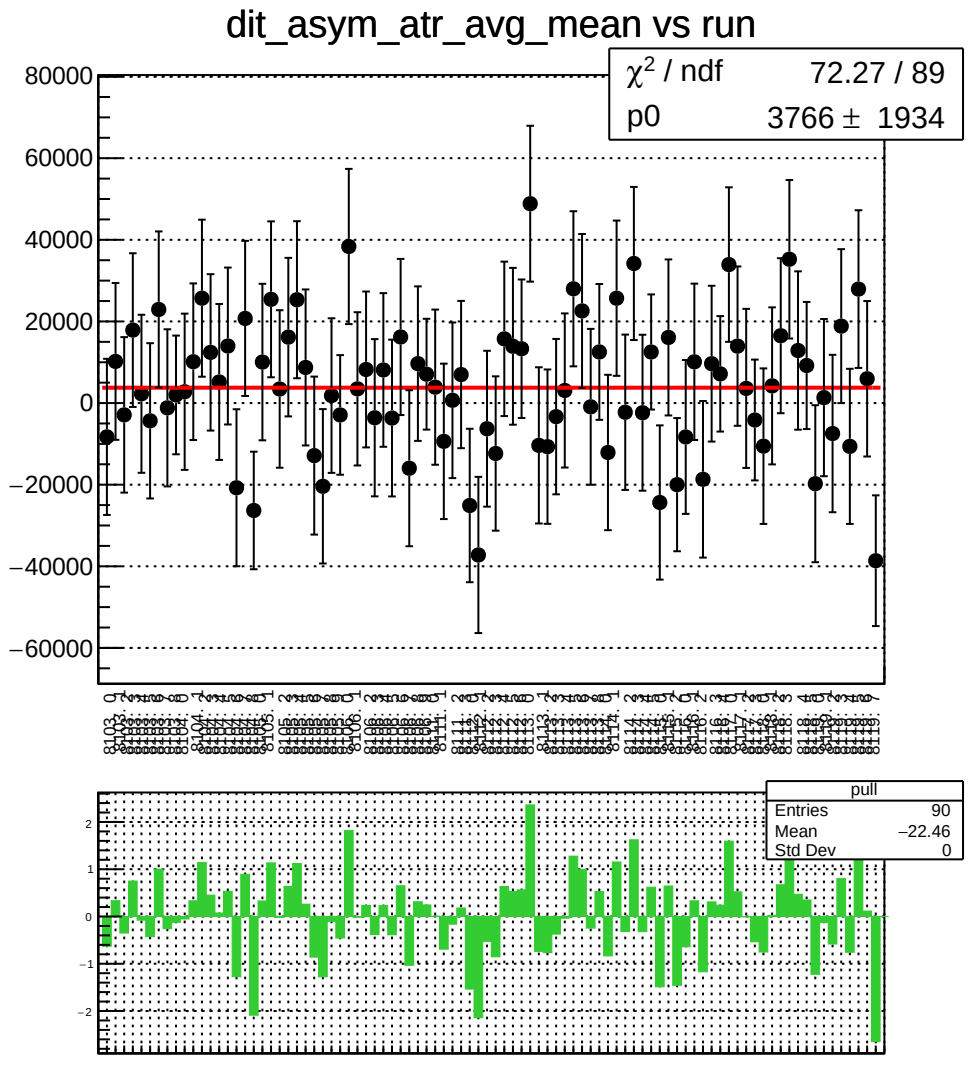

pull1D
Entries 90
Mean 0.01416
Std Dev 0.8941

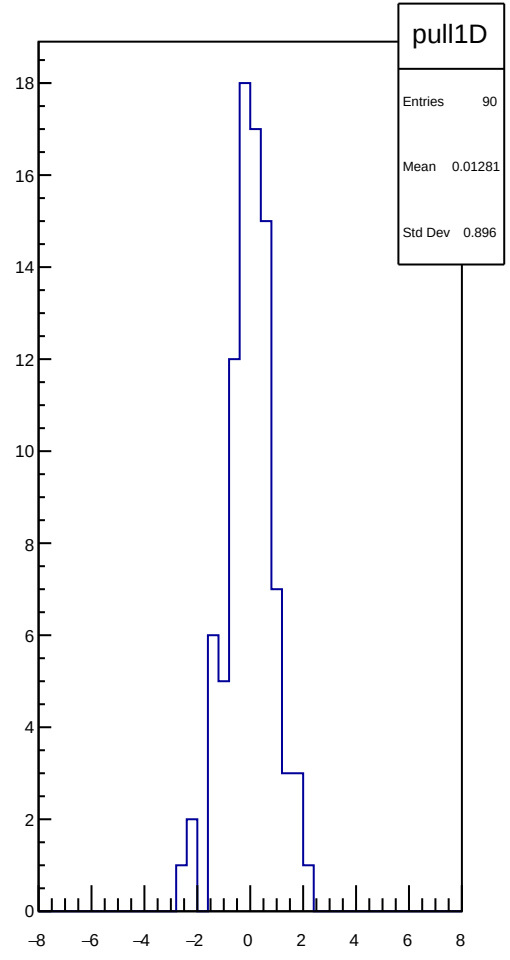

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 189.2 / 89
p0 1801 ± 1.358
1880
1860
1840
1820
1800
1780
1760
1740

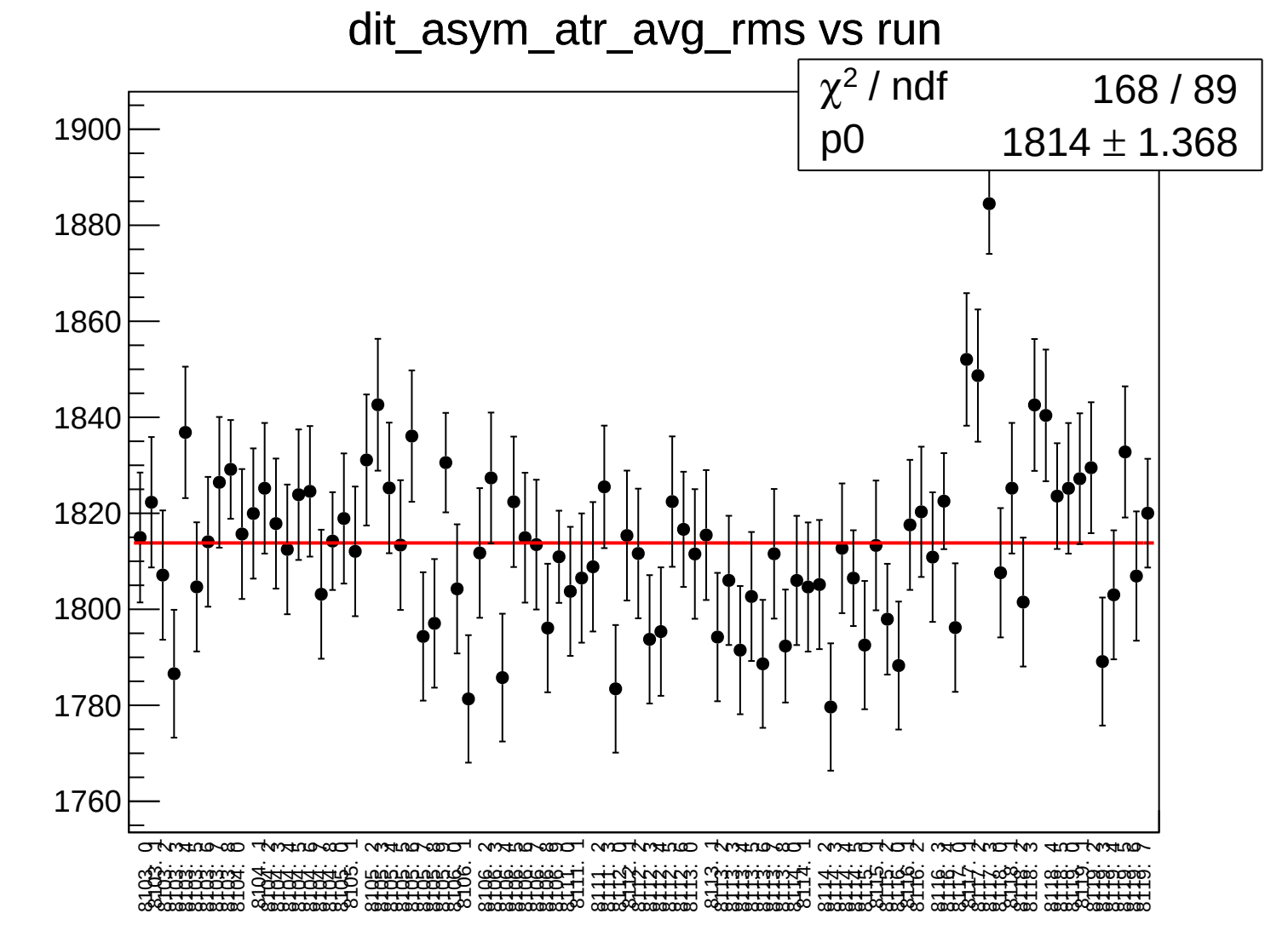

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.76 / 89
p0 7823 ± 6091
200
100
0
−100
−200
−300
pull
Entries 90
Mean −8106
Std Dev 0
2
1
0
−1
−2
−3

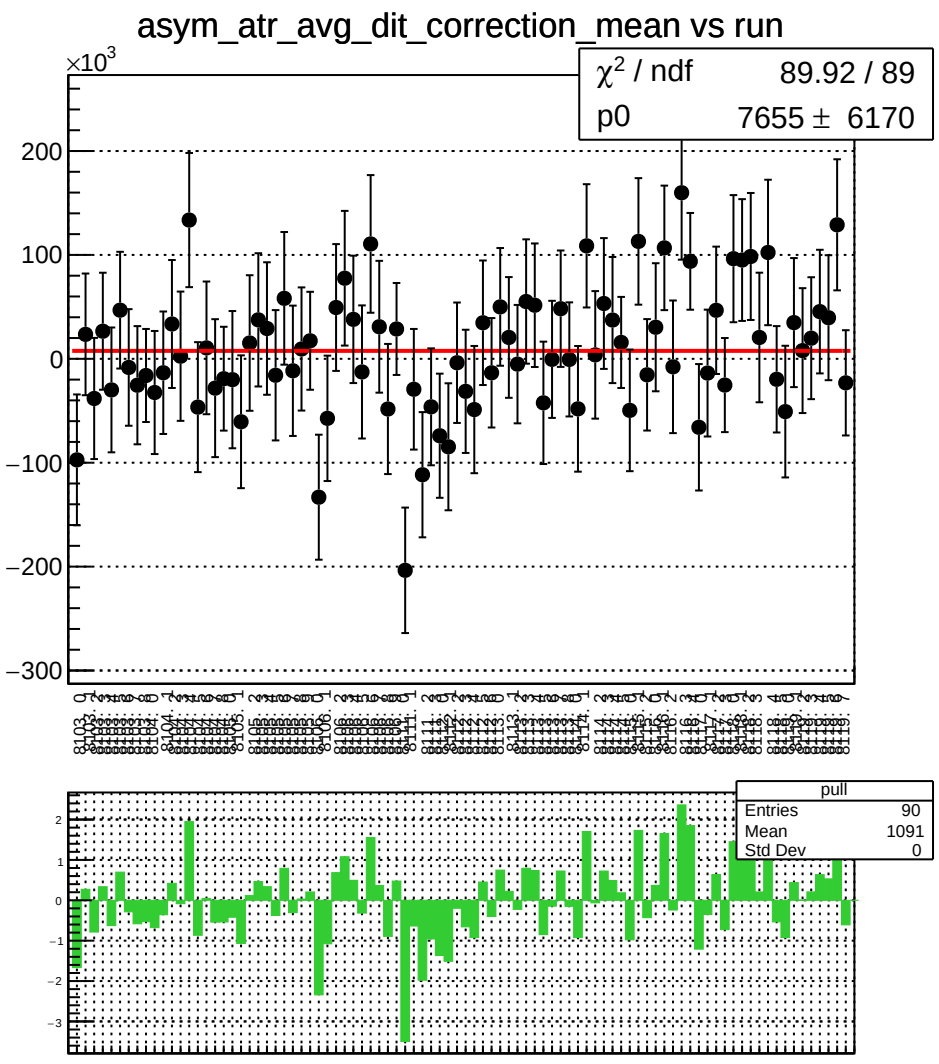

pull1D
Entries 90
Mean −0.0008885
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

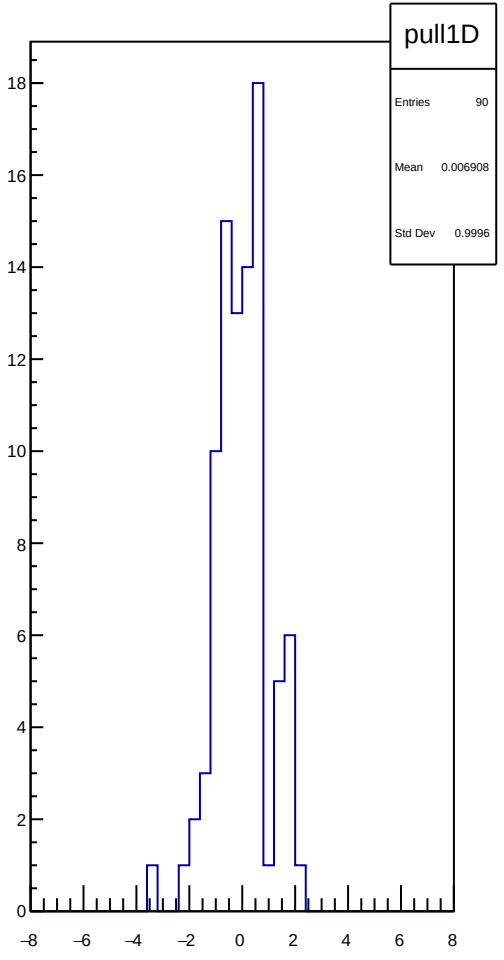

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3841 / 89
p0 5706 ± 4.307
6400
6200
6000
5800
5600
5400
5200

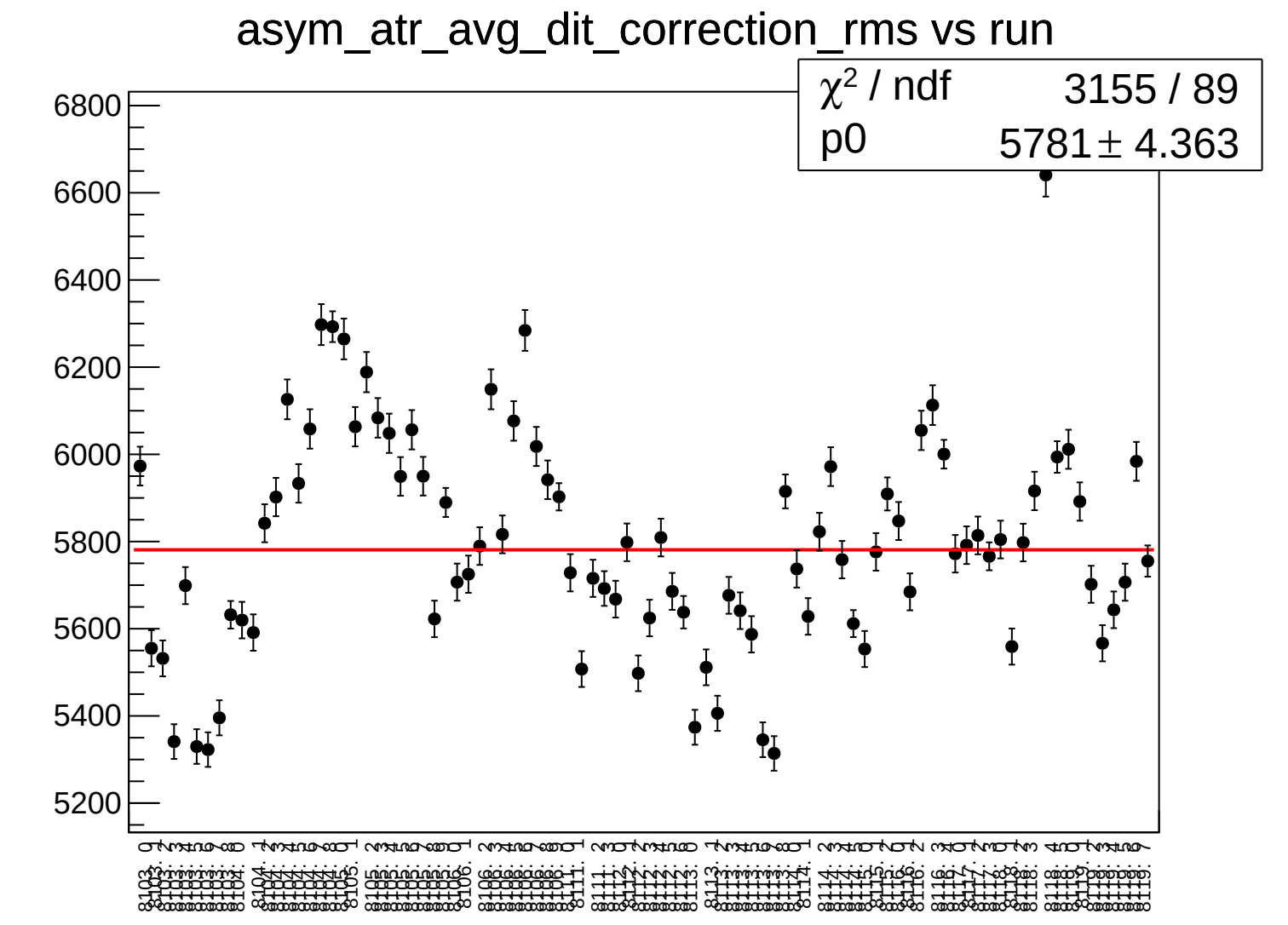

dit_asym_atr_avg_mean vs run
χ² / ndf 72.27 / 89
p0 3766 ± 1934
pull
Entries 90
Mean −22.46
Std Dev 0

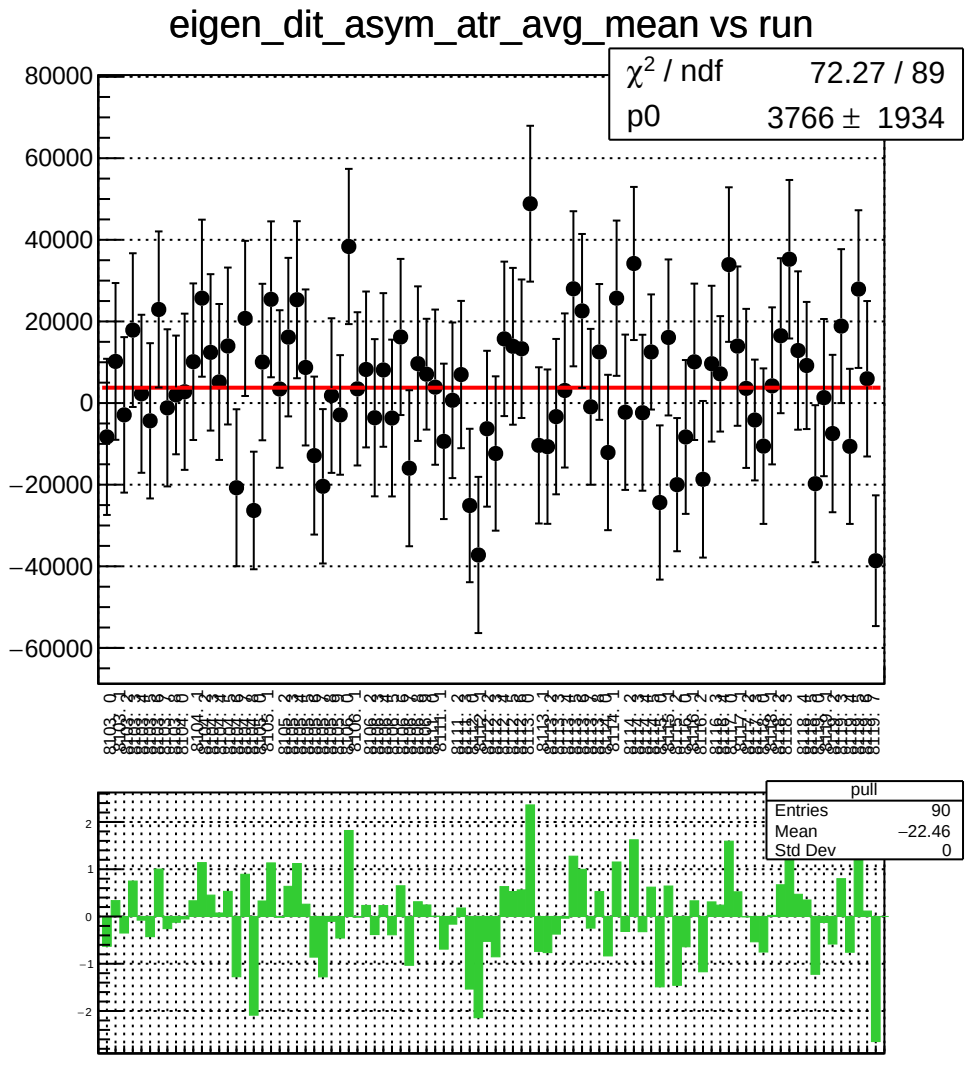

pull1D
Entries 90
Mean 0.01281
Std Dev 0.896

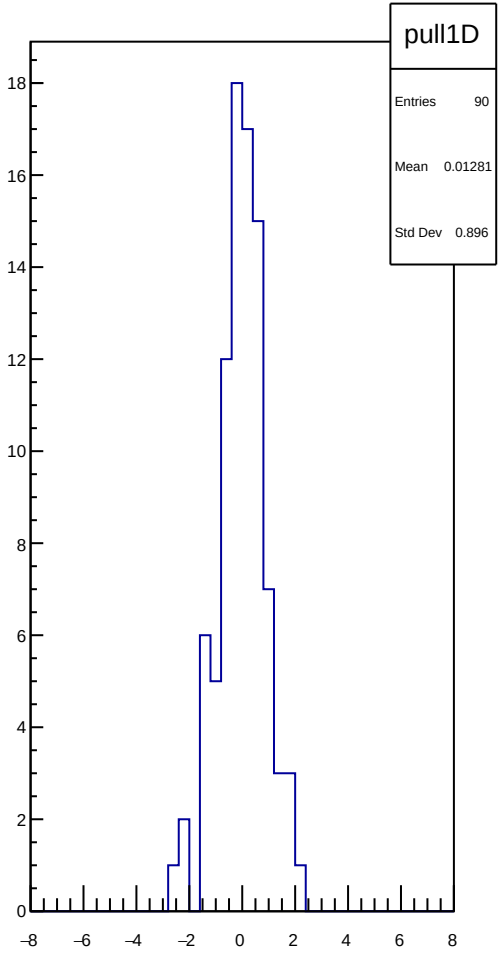

dit_asym_atr_avg_rms vs run
χ² / ndf 168 / 89
p0 1814 ± 1.368
1900
1880
1860
1840
1820
1800
1780
1760

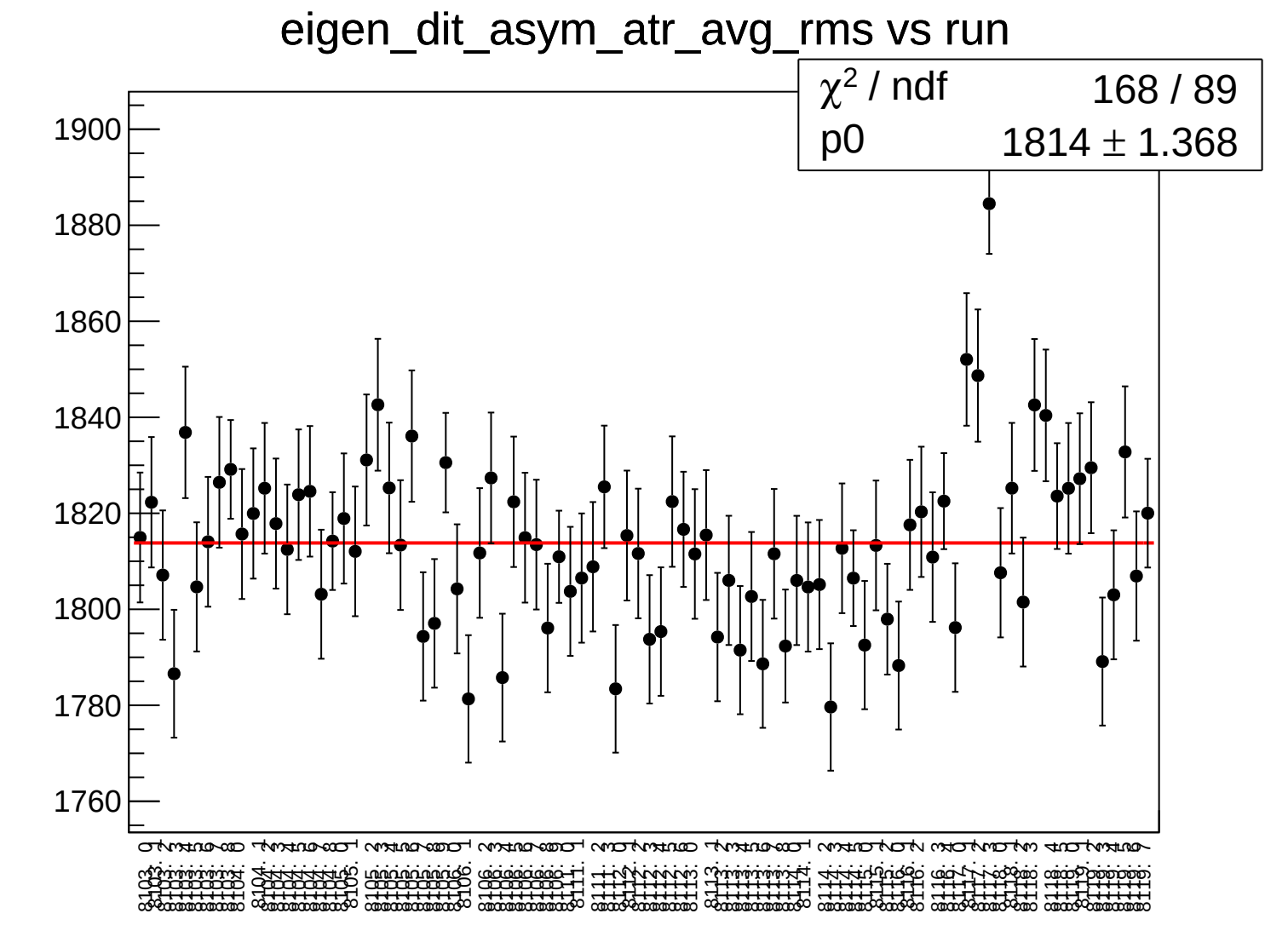

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.92 / 89
p0 7655 ± 6170
200
100
0
−100
−200
−300
pull
Entries 90
Mean 1091
Std Dev 0
2
1
0
−1
−2
−3

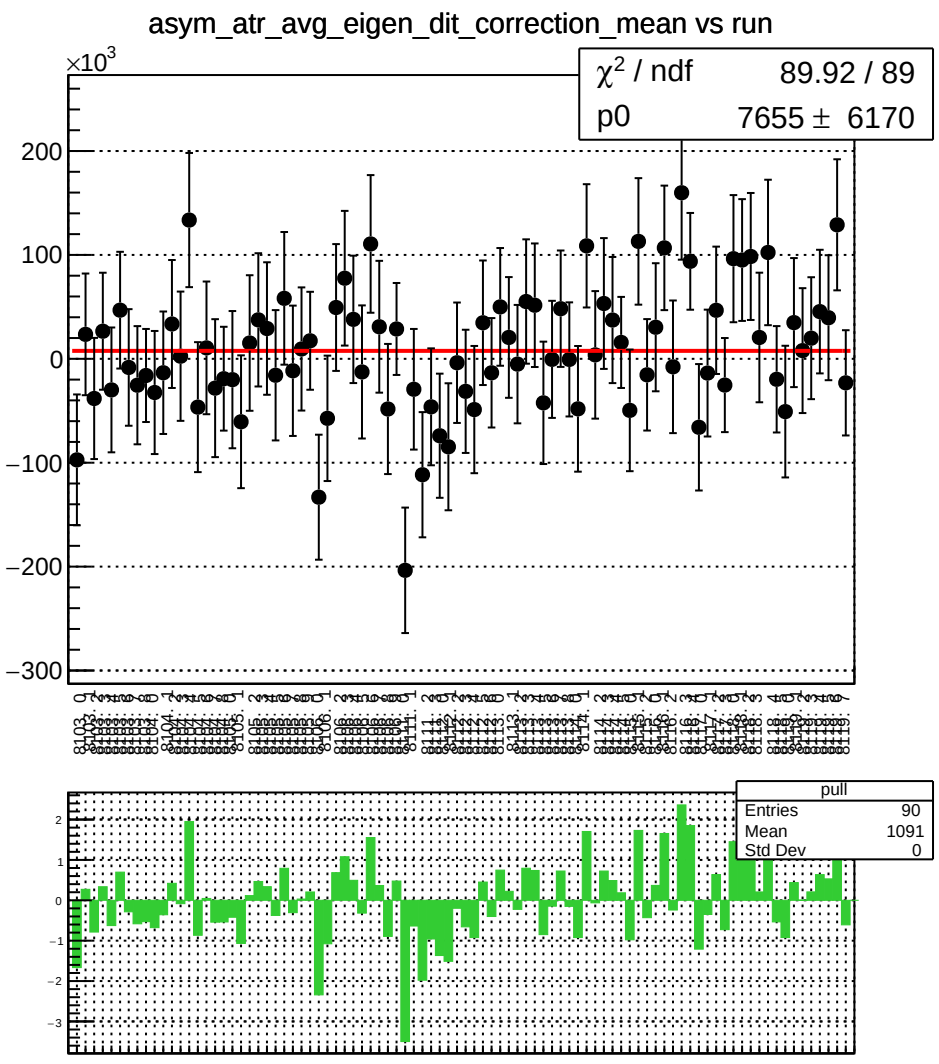

pull1D
Entries 90
Mean 0.006908
Std Dev 0.9996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

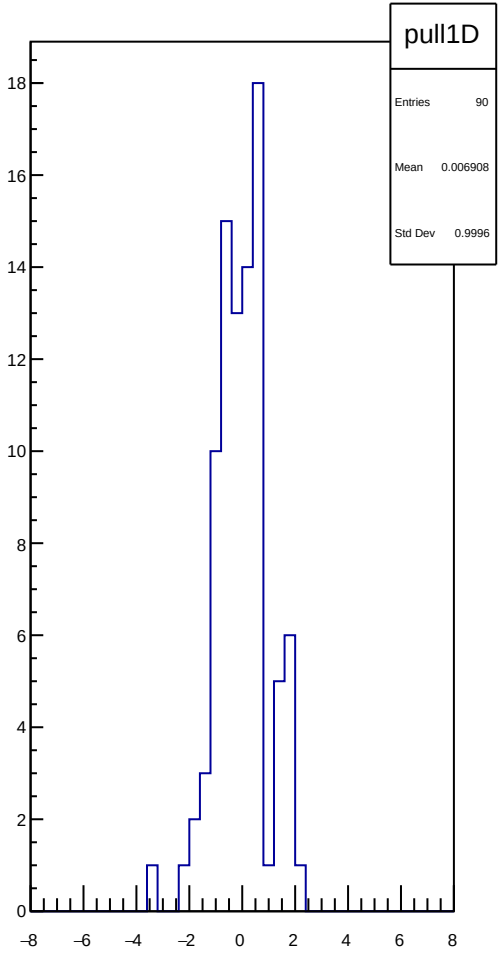

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 3155 / 89
p0 5781 ± 4.363
6800
6600
6400
6200
6000
5800
5600
5400
5200

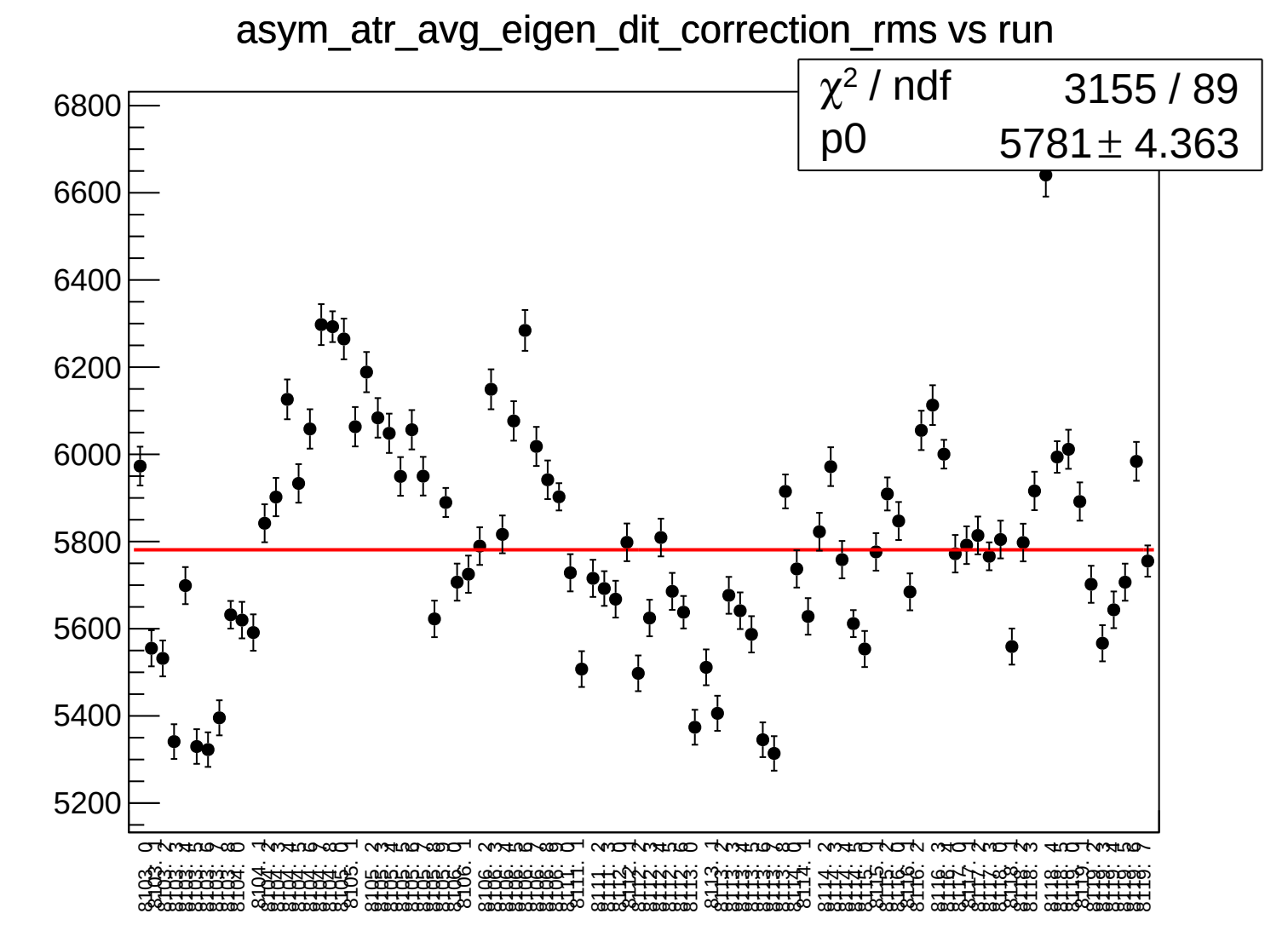

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 72.27 / 89
p0 3766 ± 1934
pull
Entries 90
Mean −22.46
Std Dev 0

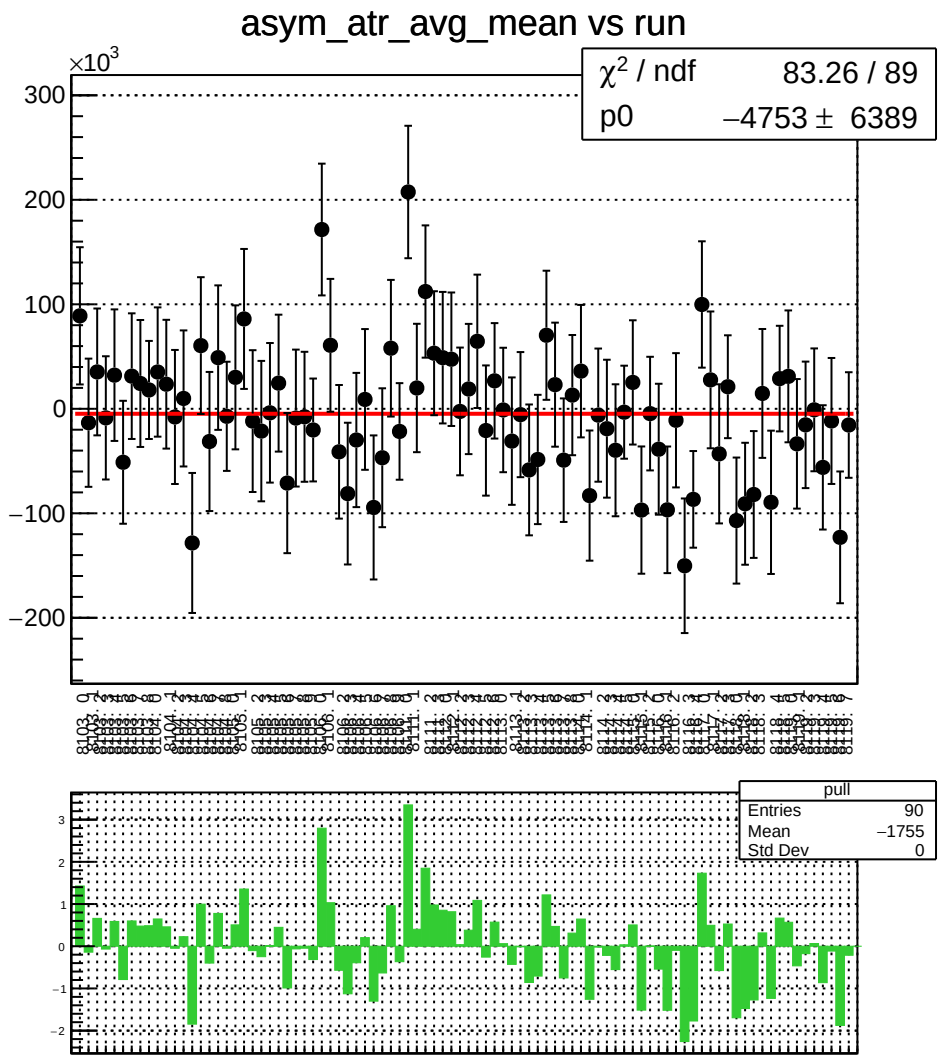

pull1D
Entries 90
Mean 0.01281
Std Dev 0.896

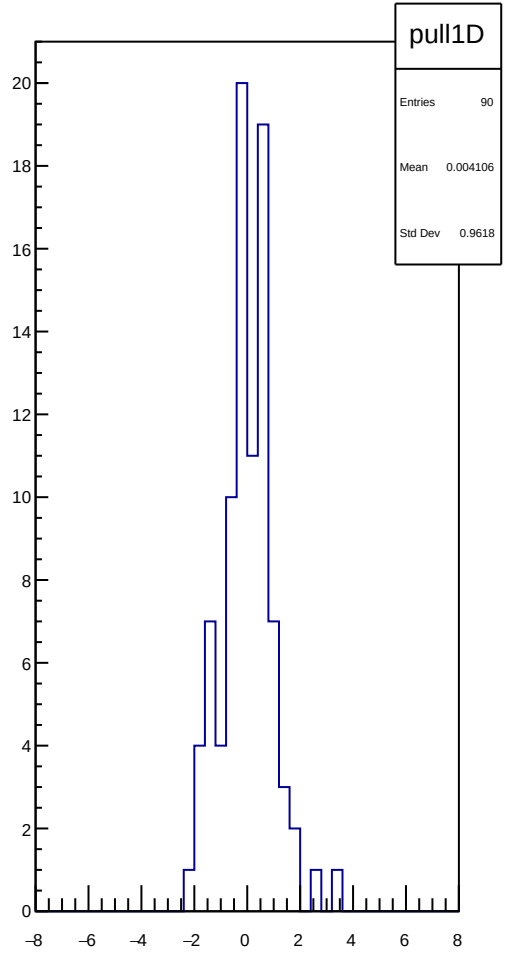

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 168 / 89
p0 1814 ± 1.368
1900
1880
1860
1840
1820
1800
1780
1760

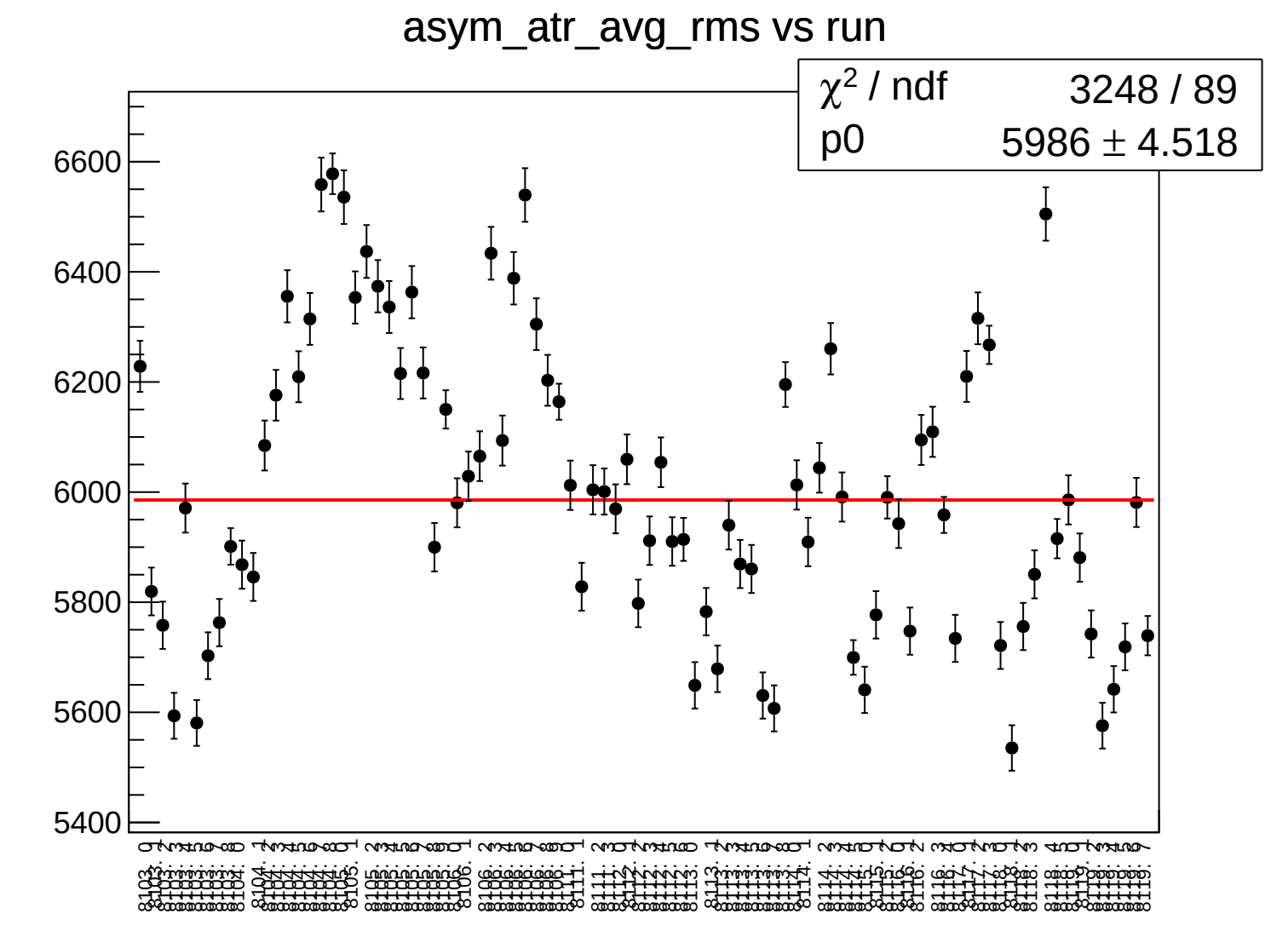

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.92 / 89
p0 7655 ± 6170
200
100
0
−100
−200
−300
pull
Entries 90
Mean 1091
Std Dev 0
2
1
0
−1
−2
−3

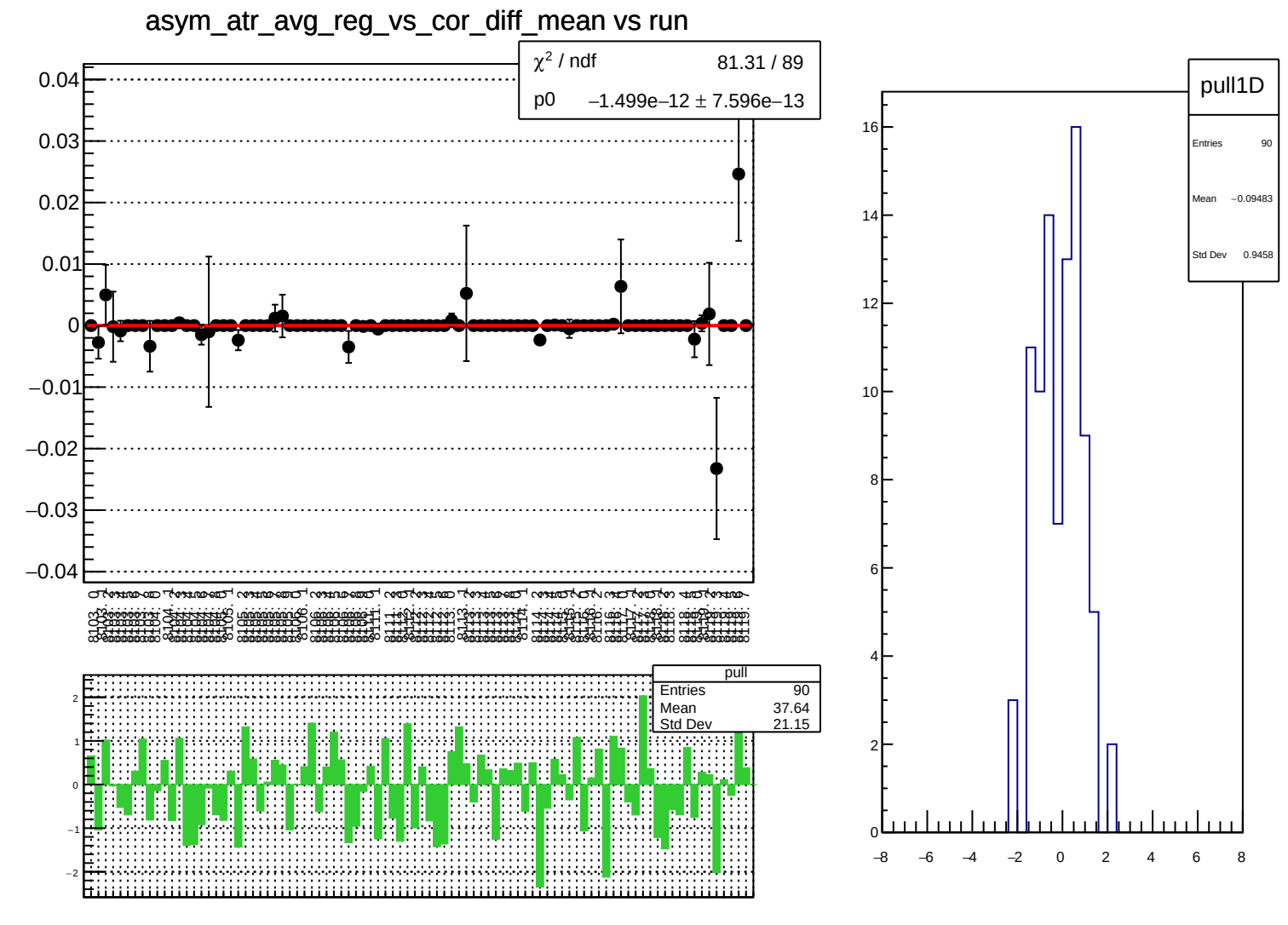

pull1D
Entries 90
Mean 0.006908
Std Dev 0.9996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

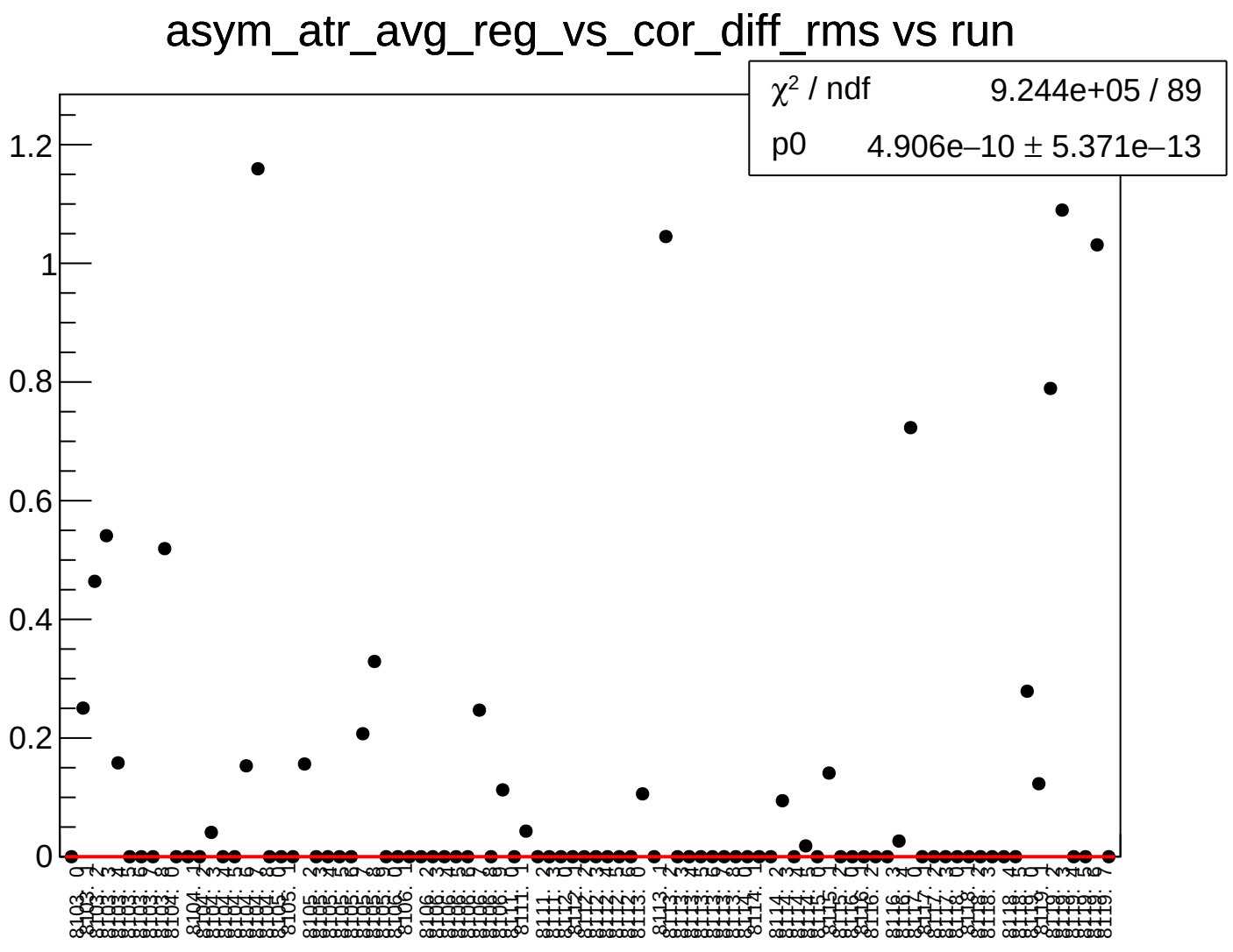

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 3155 / 89
p0 5781 ± 4.363
6800
6600
6400
6200
6000
5800
5600
5400
5200

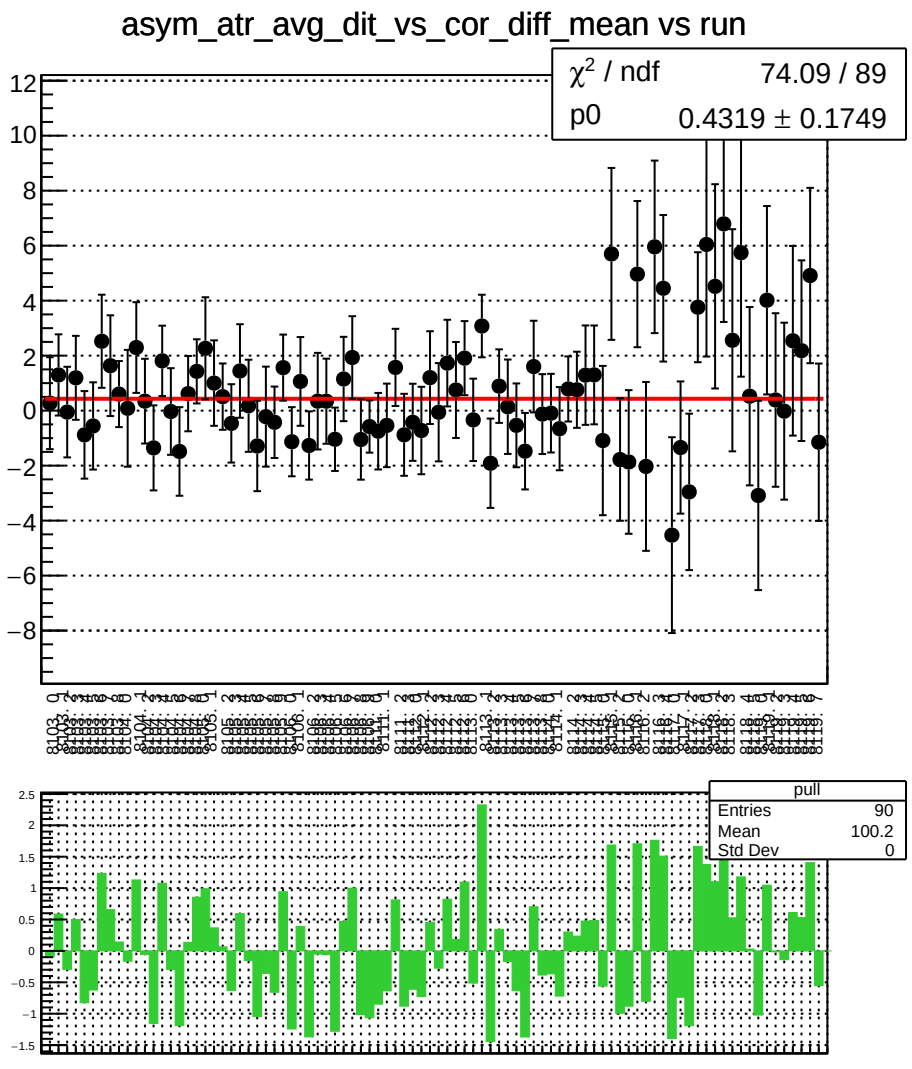

asym_atr_avg_mean vs run
×10^3
χ² / ndf 83.26 / 89
p0 −4753 ± 6389
300
200
100
0
−100
−200
pull
Entries 90
Mean −1755
Std Dev 0
3
2
1
0
−1
−2

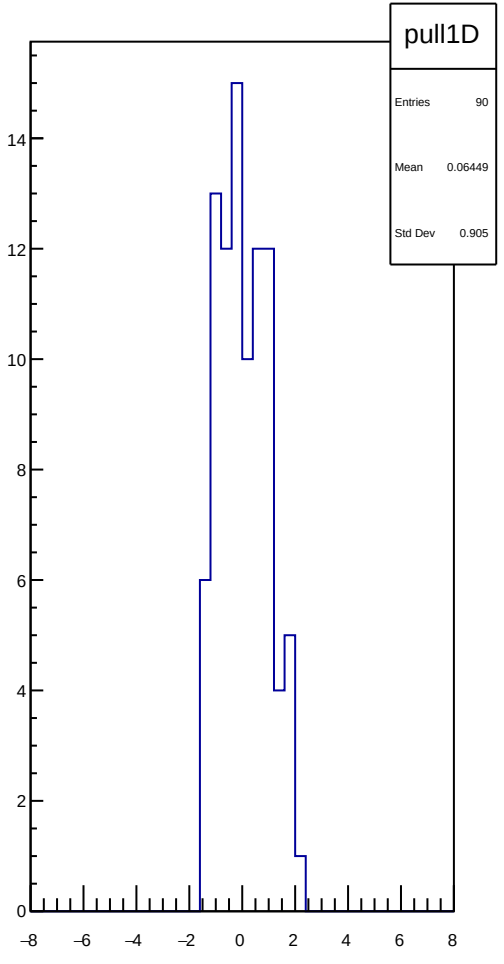

pull1D
Entries 90
Mean 0.004106
Std Dev 0.9618
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

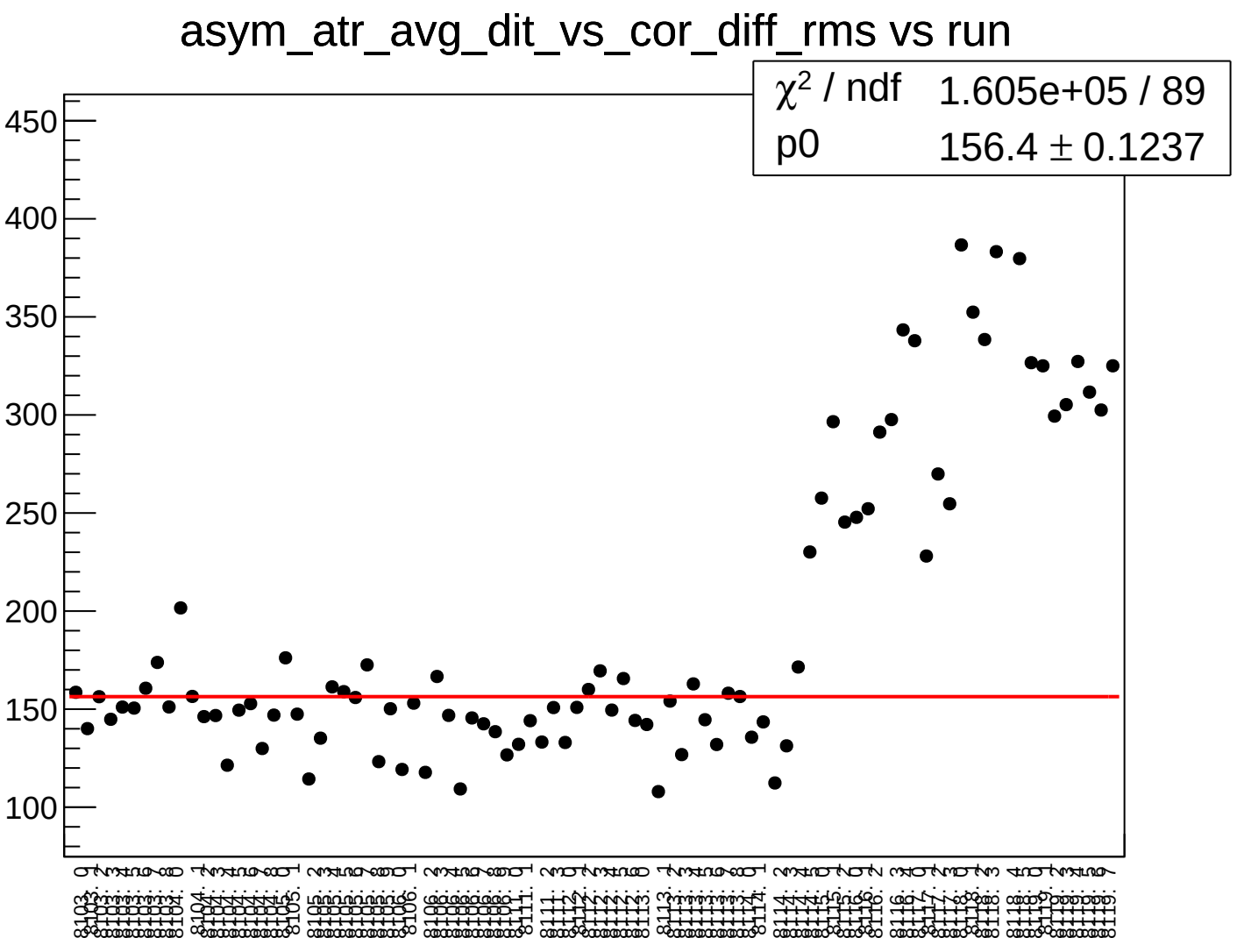

asym_atr_avg_rms vs run
χ^2 / ndf 3248 / 89
p0 5986 ± 4.518
6600
6400
6200
6000
5800
5600
5400

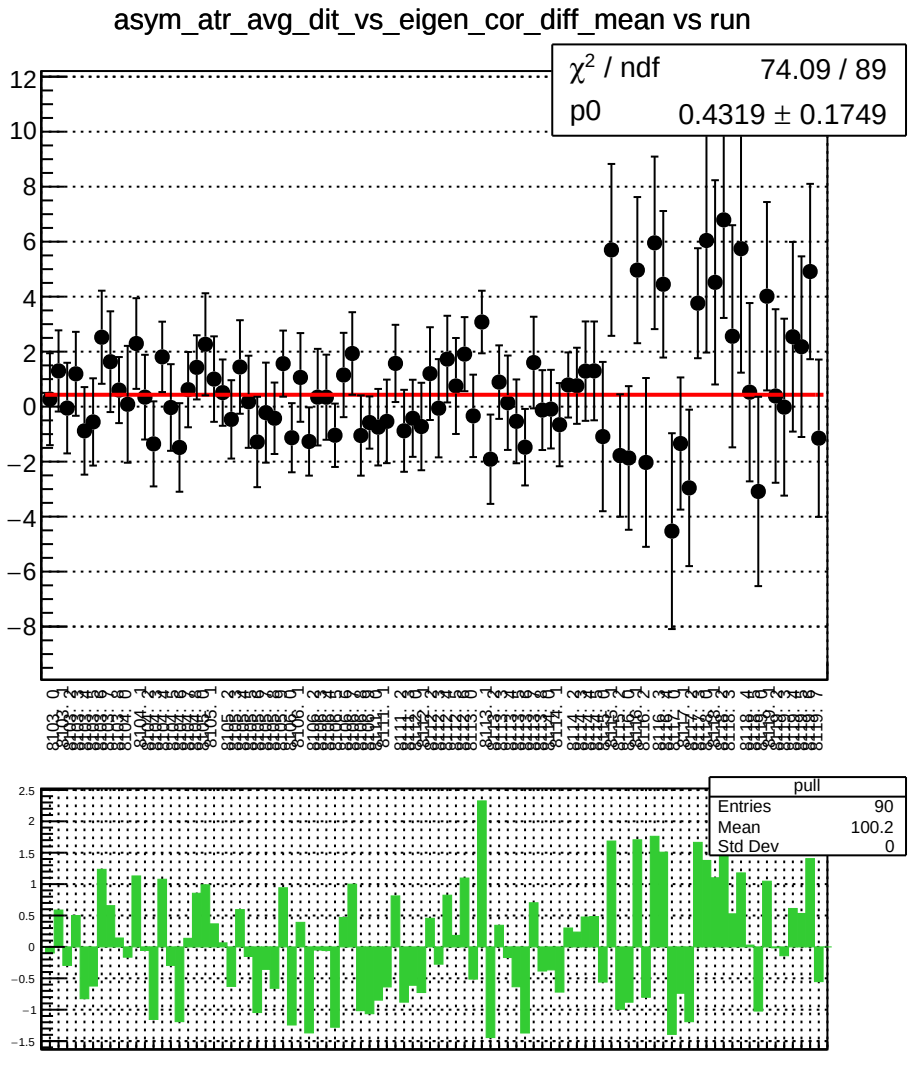

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.31 / 89
p0 −1.499e−12 ± 7.596e−13
pull
Entries 90
Mean 37.64
Std Dev 21.15
pull1D
Entries 90
Mean −0.09483
Std Dev 0.9458

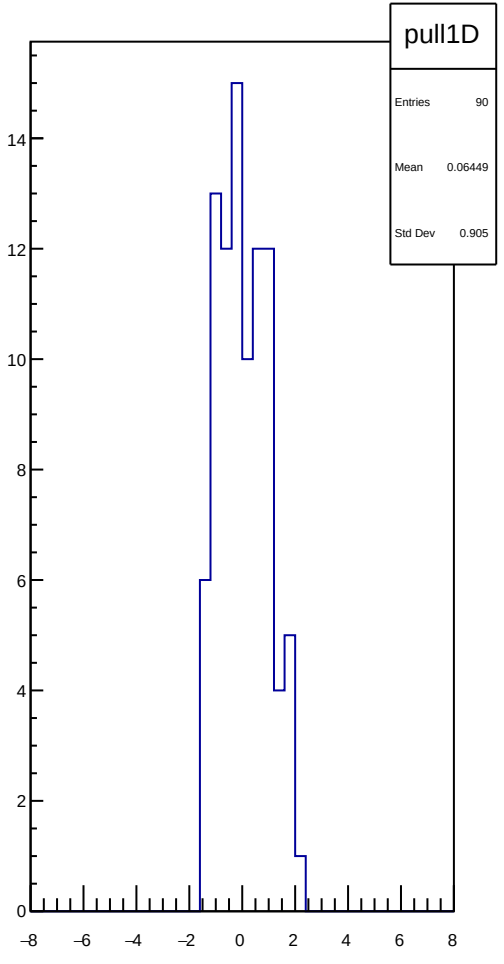

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.244e+05 / 89
p0 4.906e−10 ± 5.371e−13
1.2
1
0.8
0.6
0.4
0.2
0

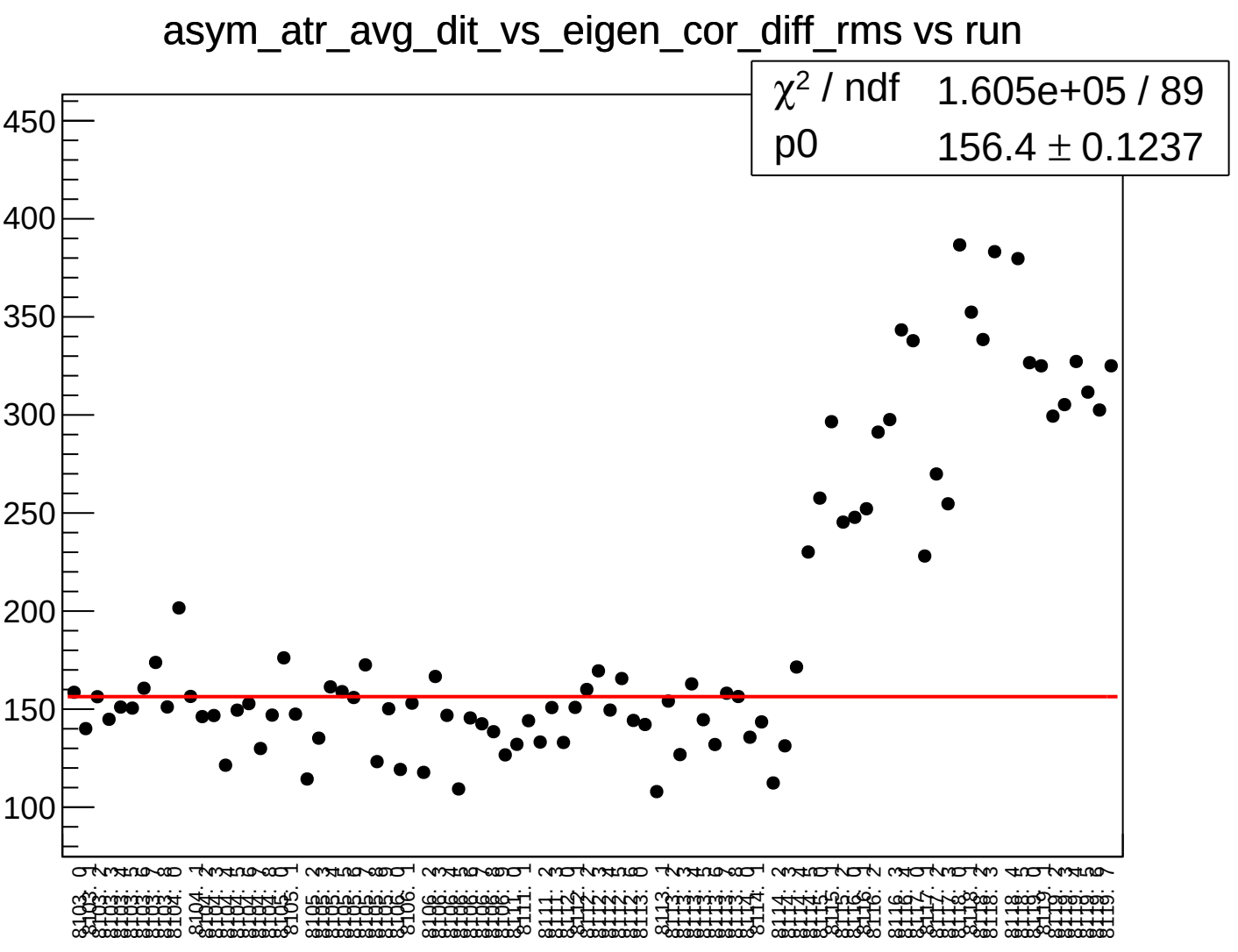

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.09 / 89
p0 0.4319 ± 0.1749
pull
Entries 90
Mean 100.2
Std Dev 0

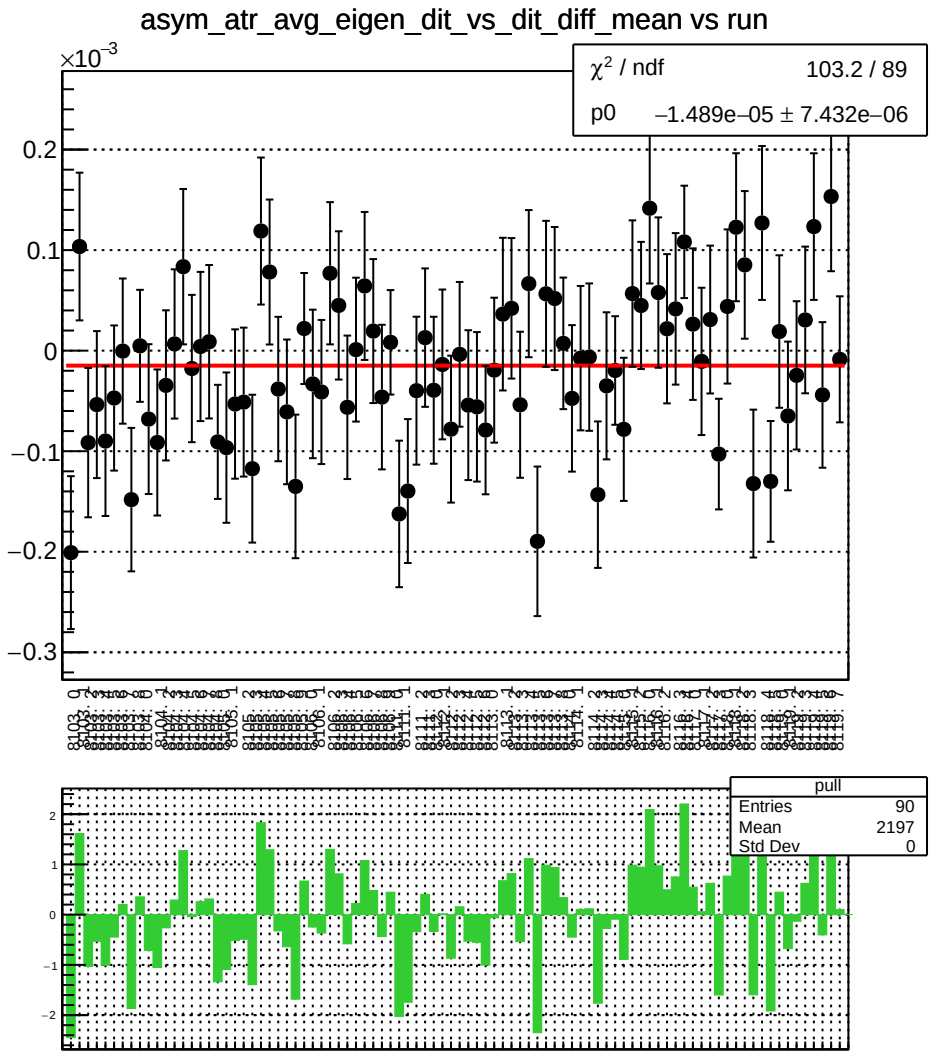

pull1D
Entries 90
Mean 0.06449
Std Dev 0.905

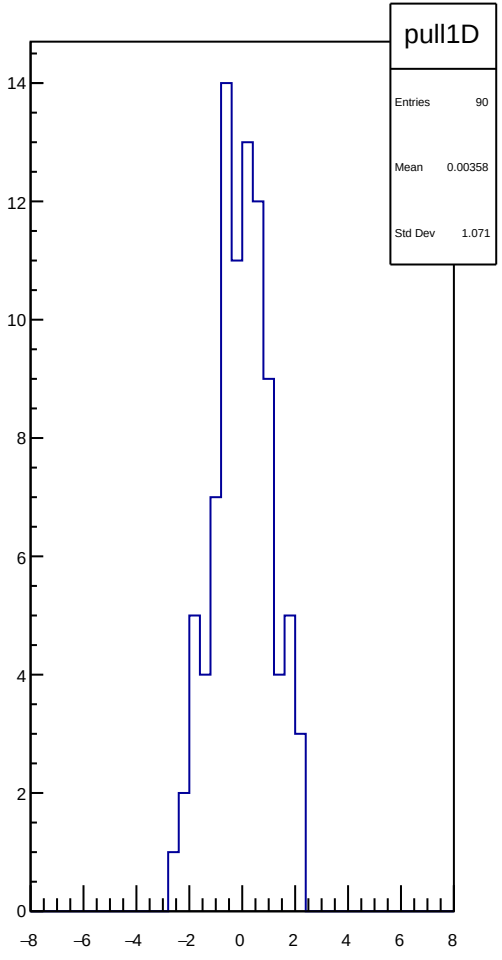

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.605e+05 / 89
p0 156.4 ± 0.1237
450
400
350
300
250
200
150
100

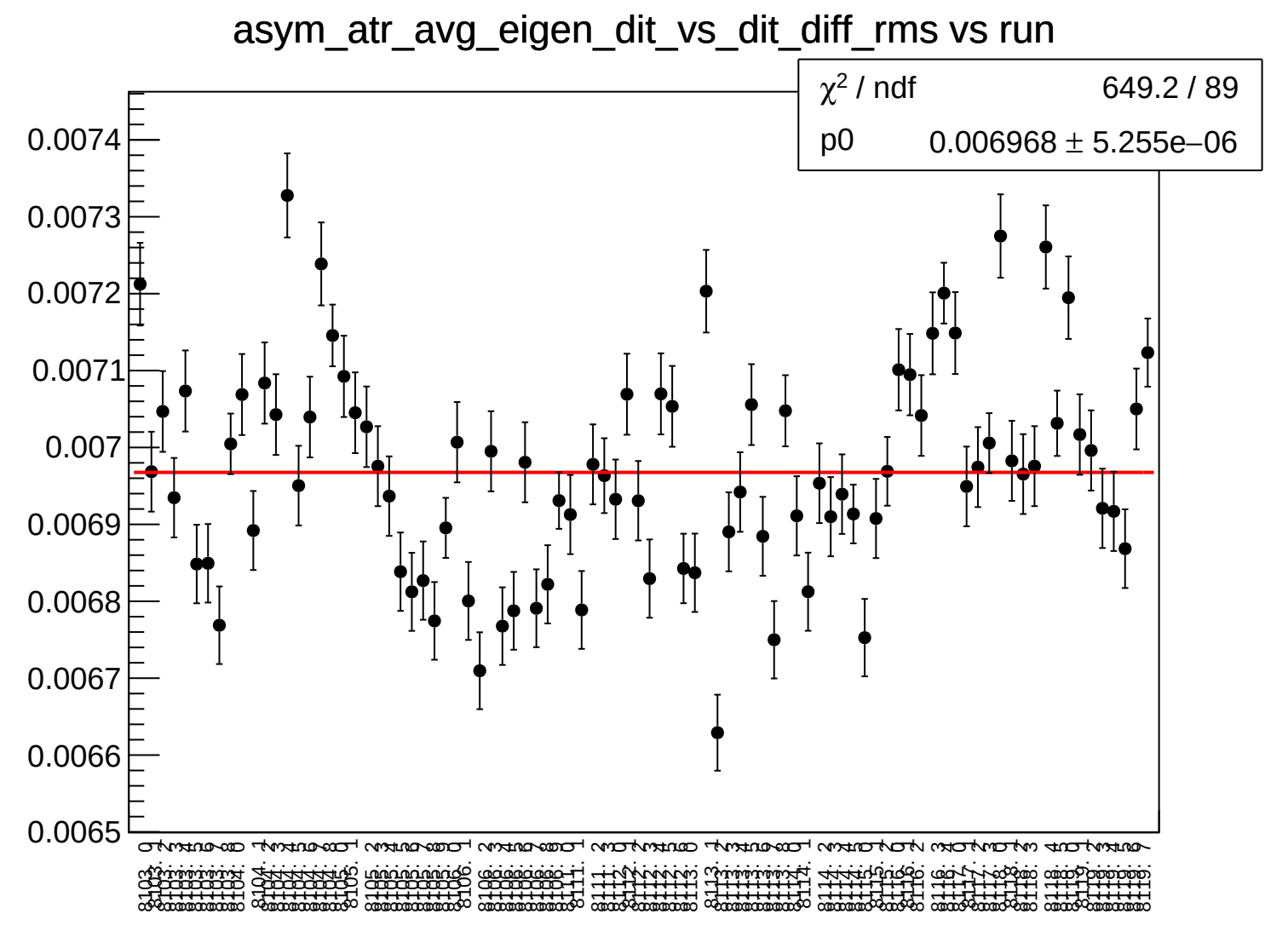

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.09 / 89
p0 0.4319 ± 0.1749
pull
Entries 90
Mean 100.2
Std Dev 0

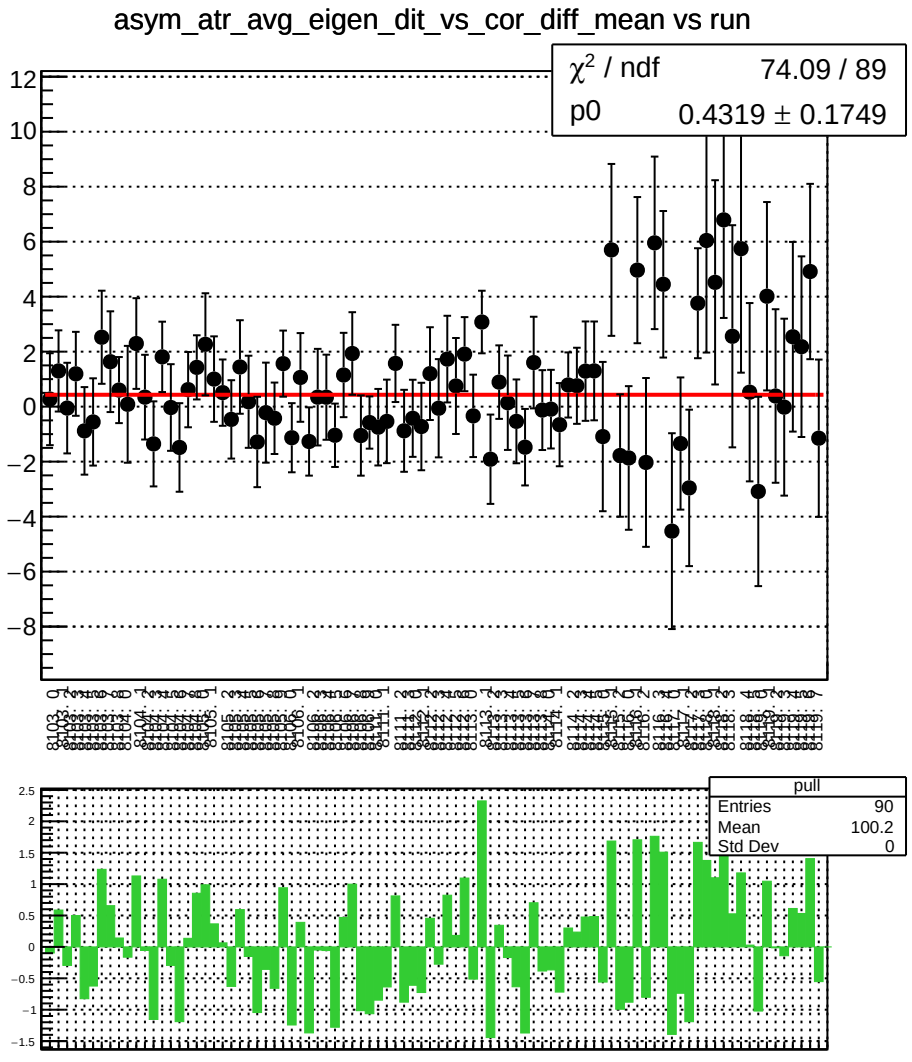

pull1D
Entries 90
Mean 0.06449
Std Dev 0.905

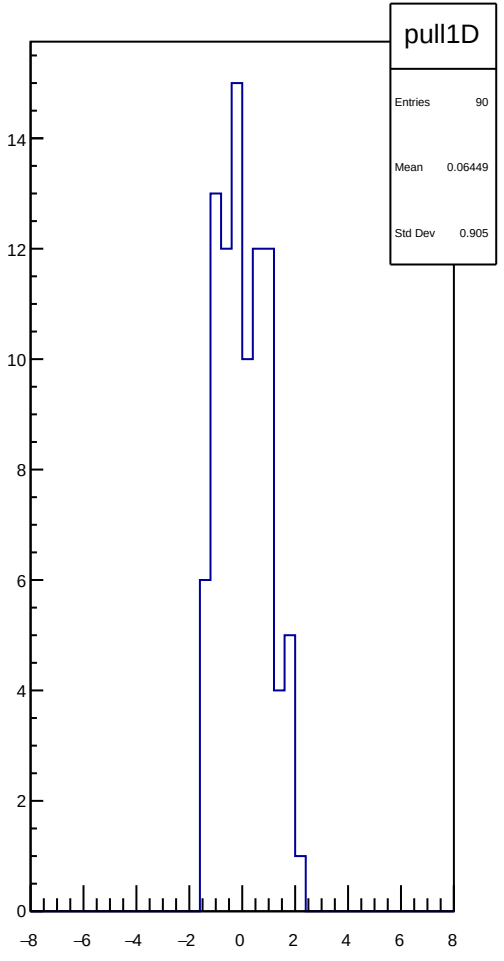

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.605e+05 / 89
p0 156.4 ± 0.1237
450
400
350
300
250
200
150
100

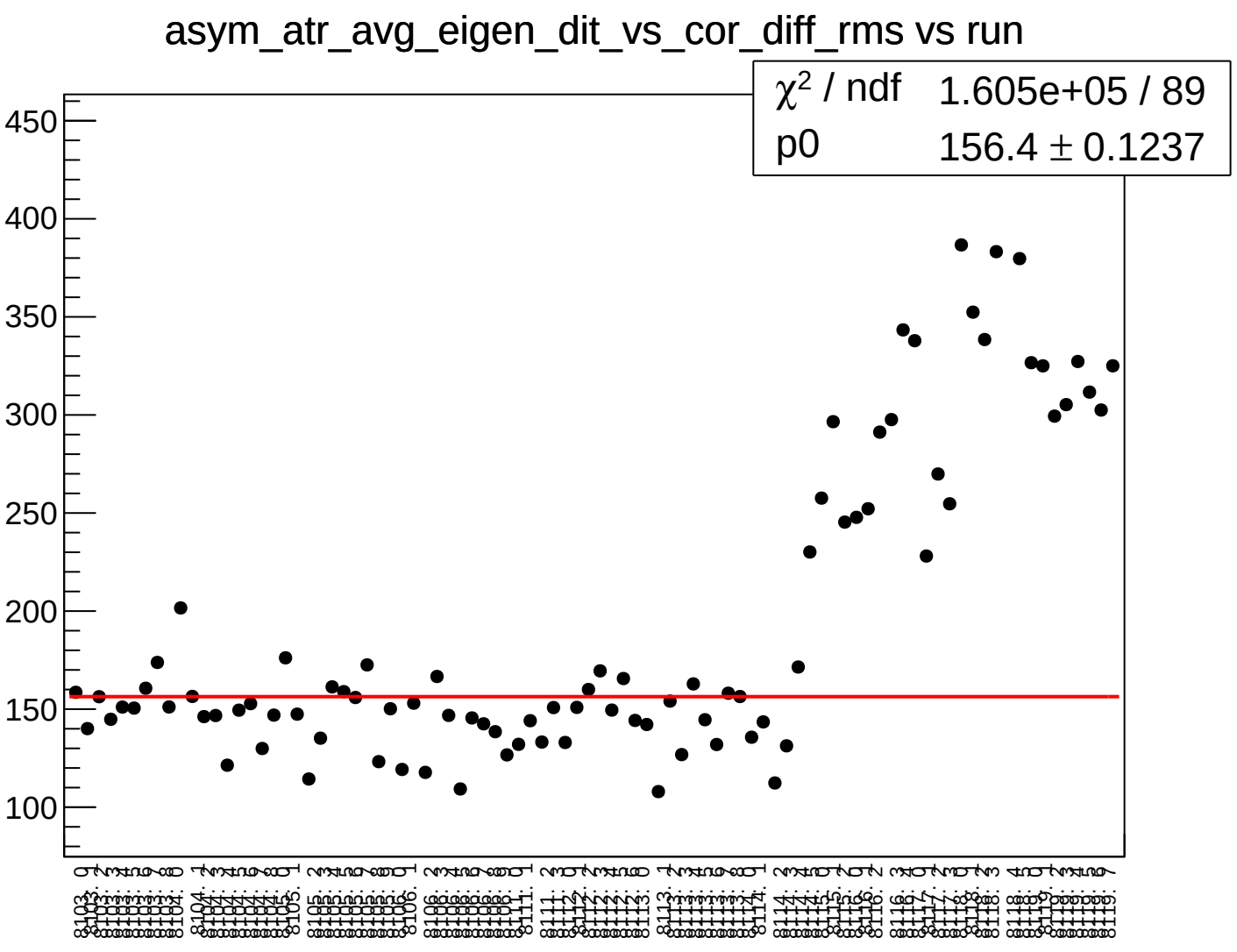

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.2 / 89
p0 −1.489e−05 ± 7.432e−06
pull
Entries 90
Mean 2197
Std Dev 0

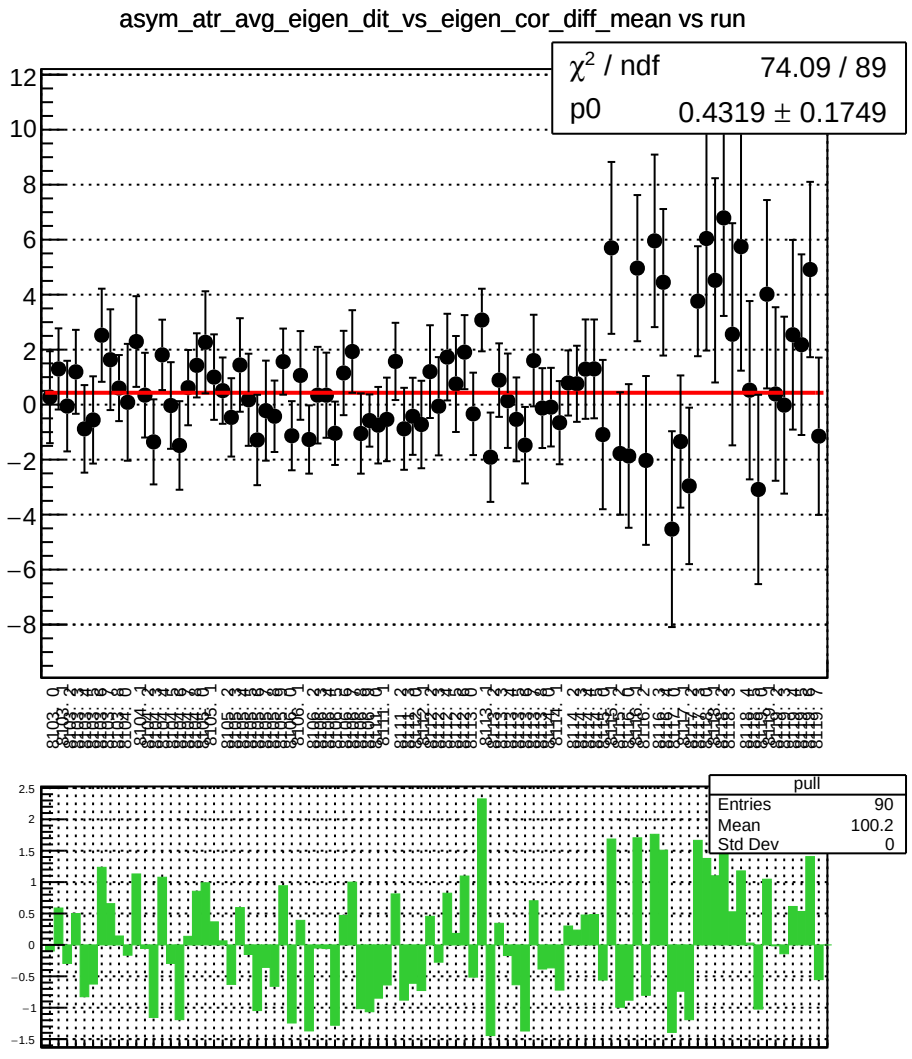

pull1D
Entries 90
Mean 0.00358
Std Dev 1.071

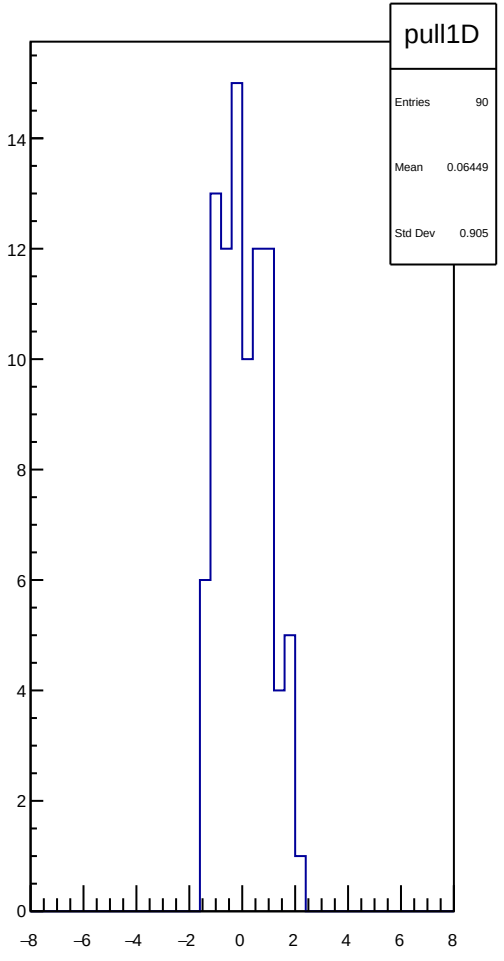

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 649.2 / 89
p0 0.006968 ± 5.255e−06
0.0074
0.0073
0.0072
0.0071
0.007
0.0069
0.0068
0.0067
0.0066
0.0065

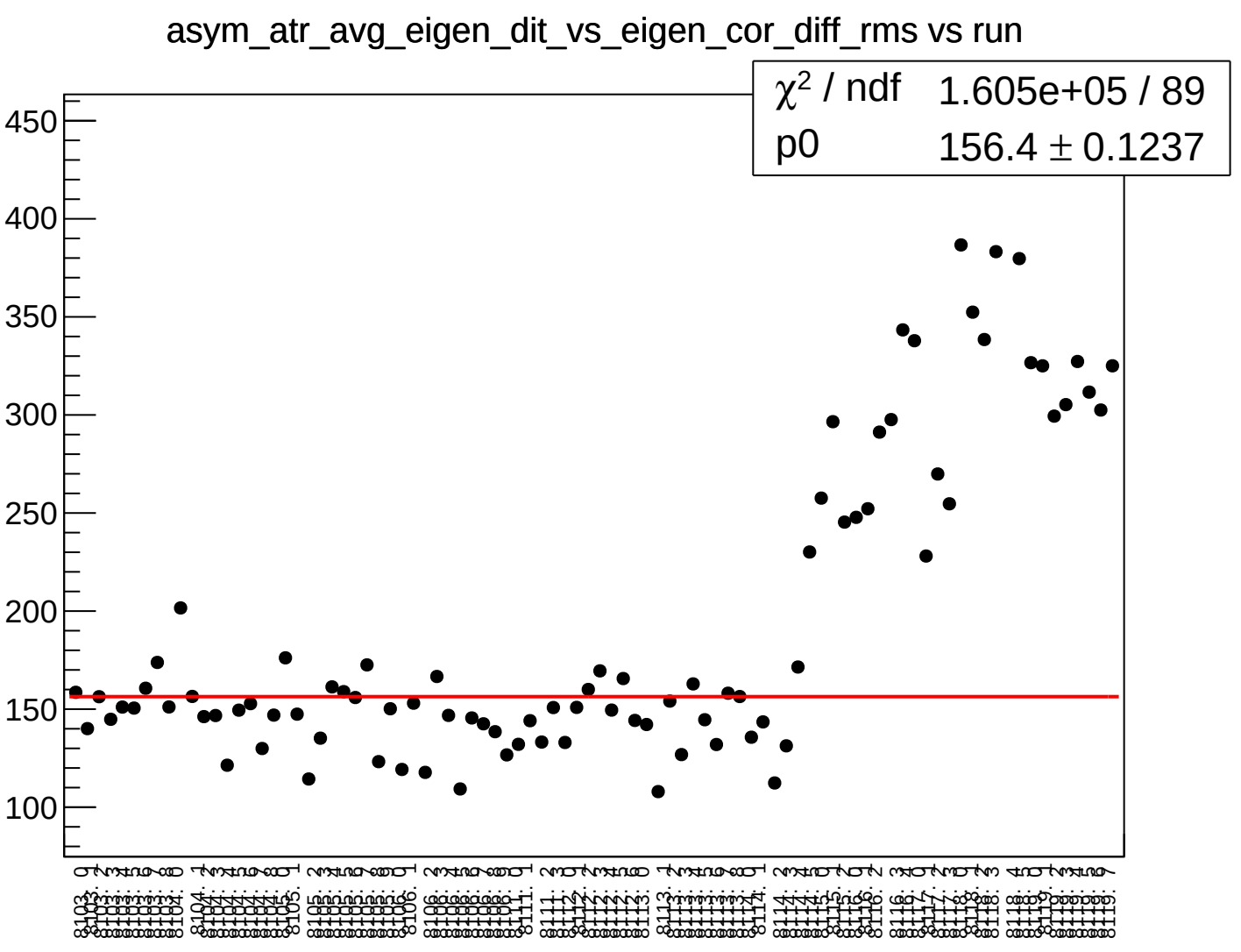

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.09 / 89
p0 0.4319 ± 0.1749
pull
Entries 90
Mean 100.2
Std Dev 0

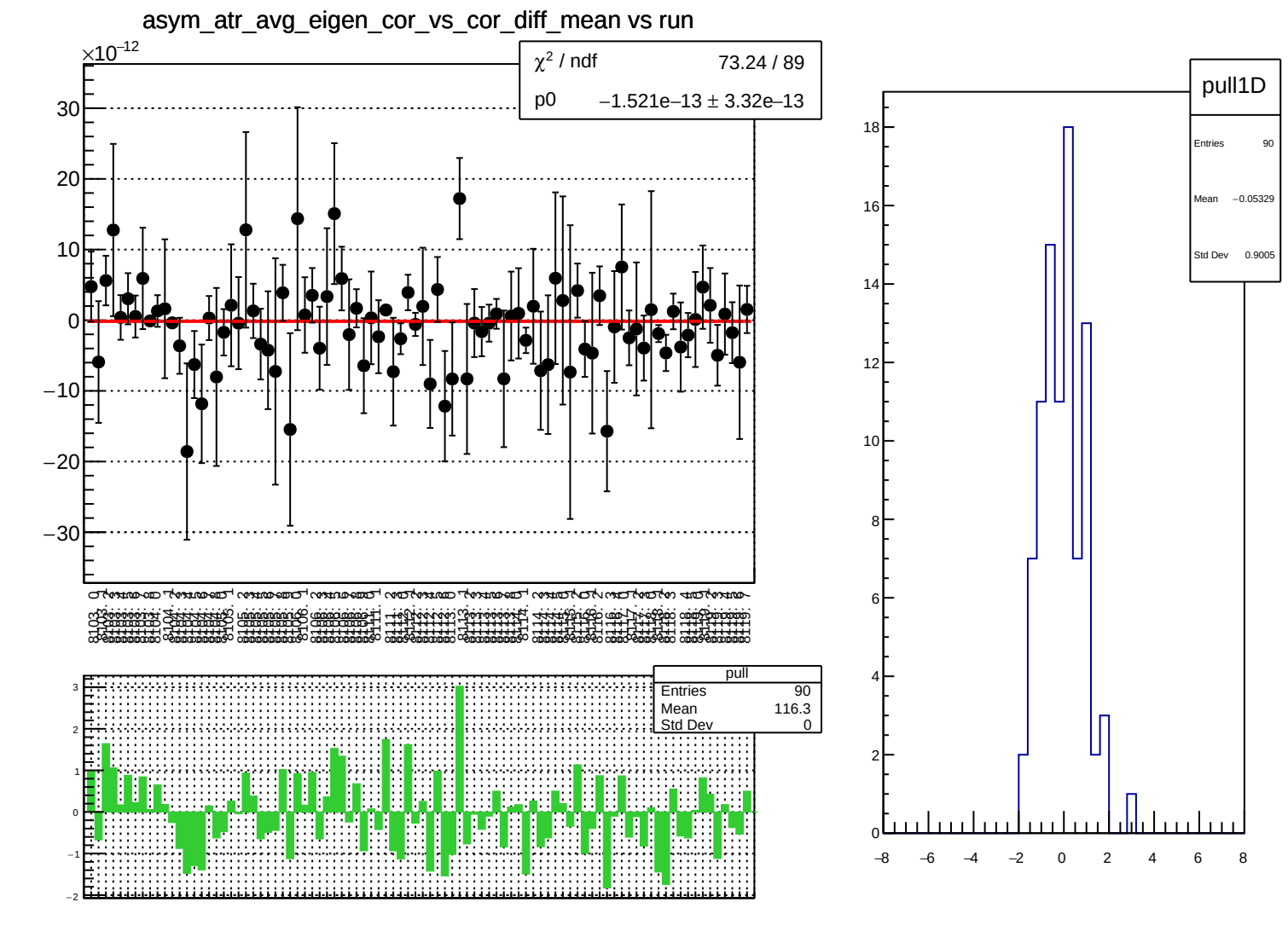

pull1D
Entries 90
Mean 0.06449
Std Dev 0.905

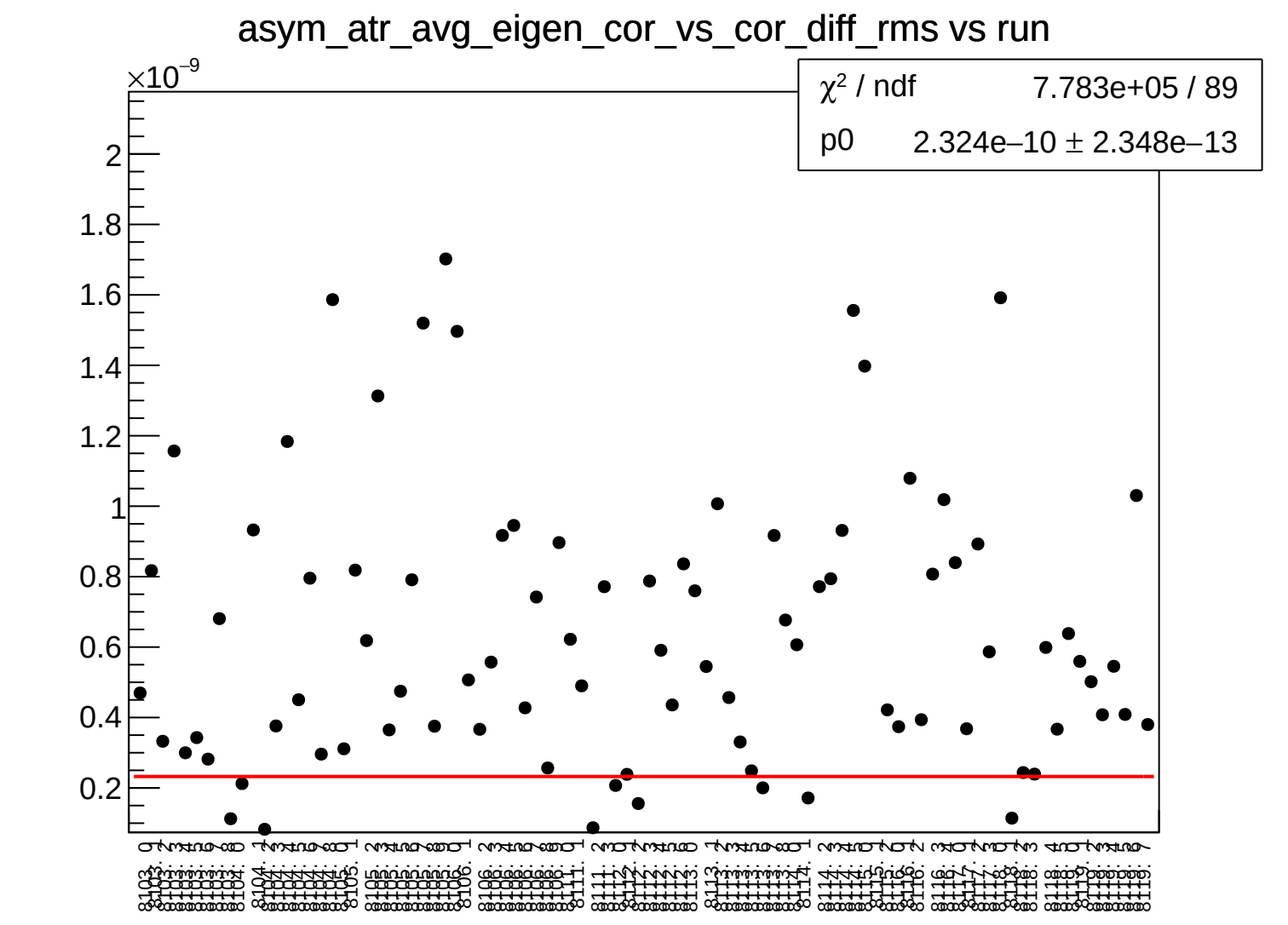

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.605e+05 / 89
p0 156.4 ± 0.1237
450
400
350
300
250
200
150
100

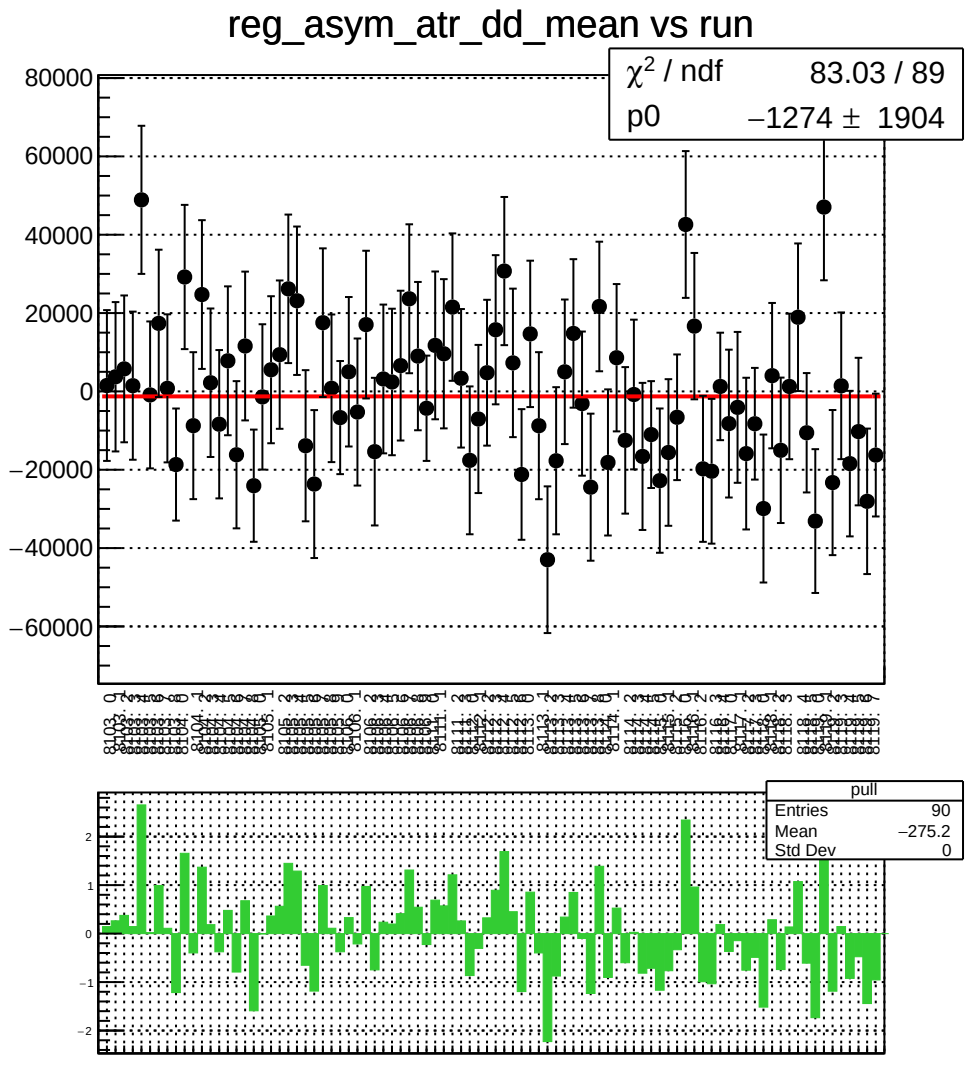

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.09 / 89
p0 0.4319 ± 0.1749
pull
Entries 90
Mean 100.2
Std Dev 0

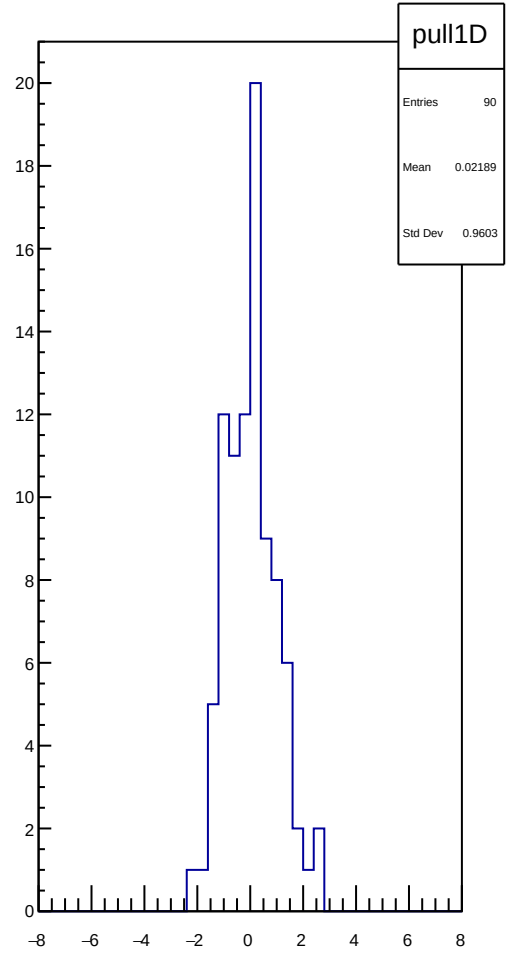

pull1D
Entries 90
Mean 0.06449
Std Dev 0.905

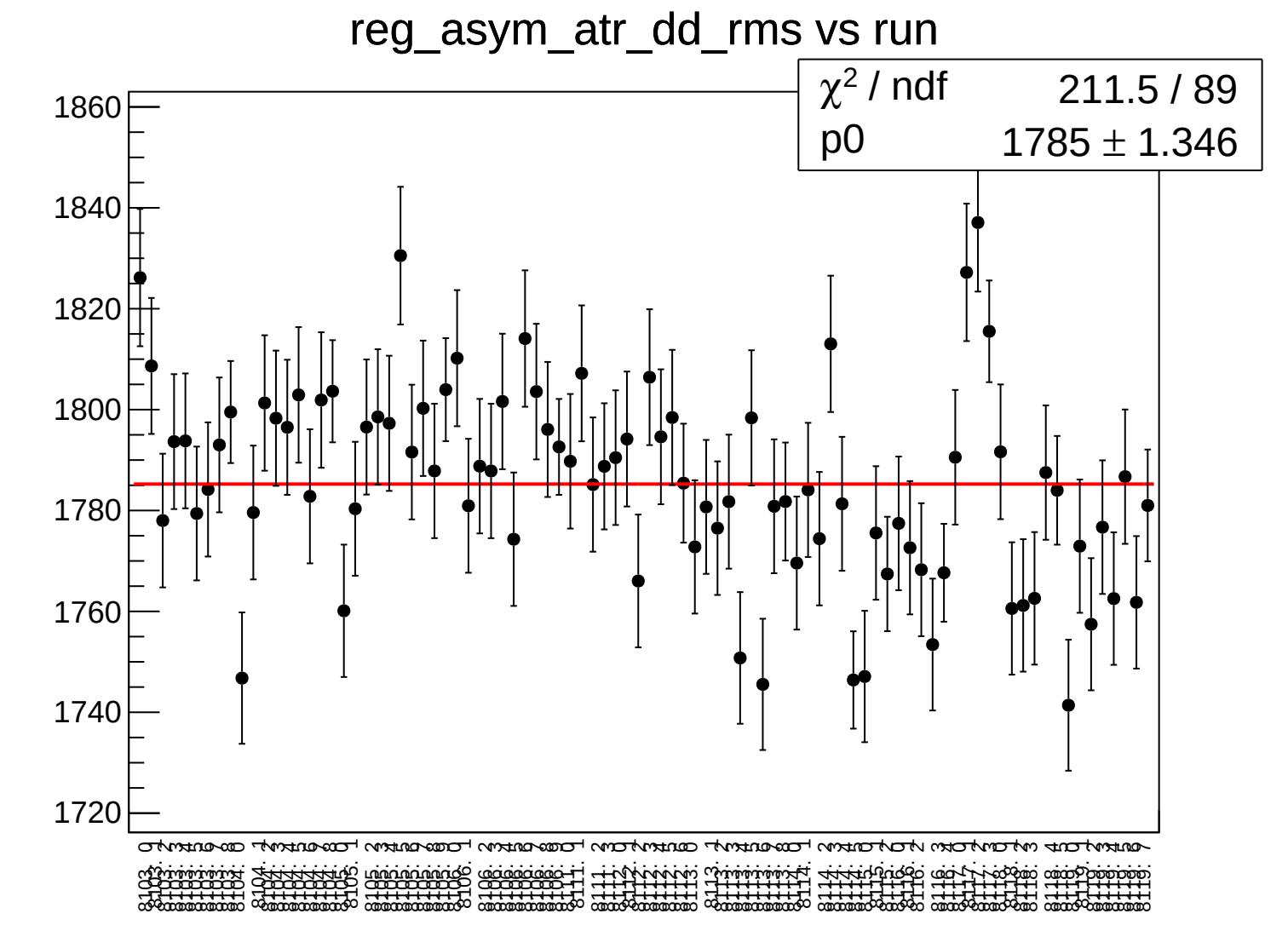

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.605e+05 / 89
p0 156.4 ± 0.1237
450
400
350
300
250
200
150
100

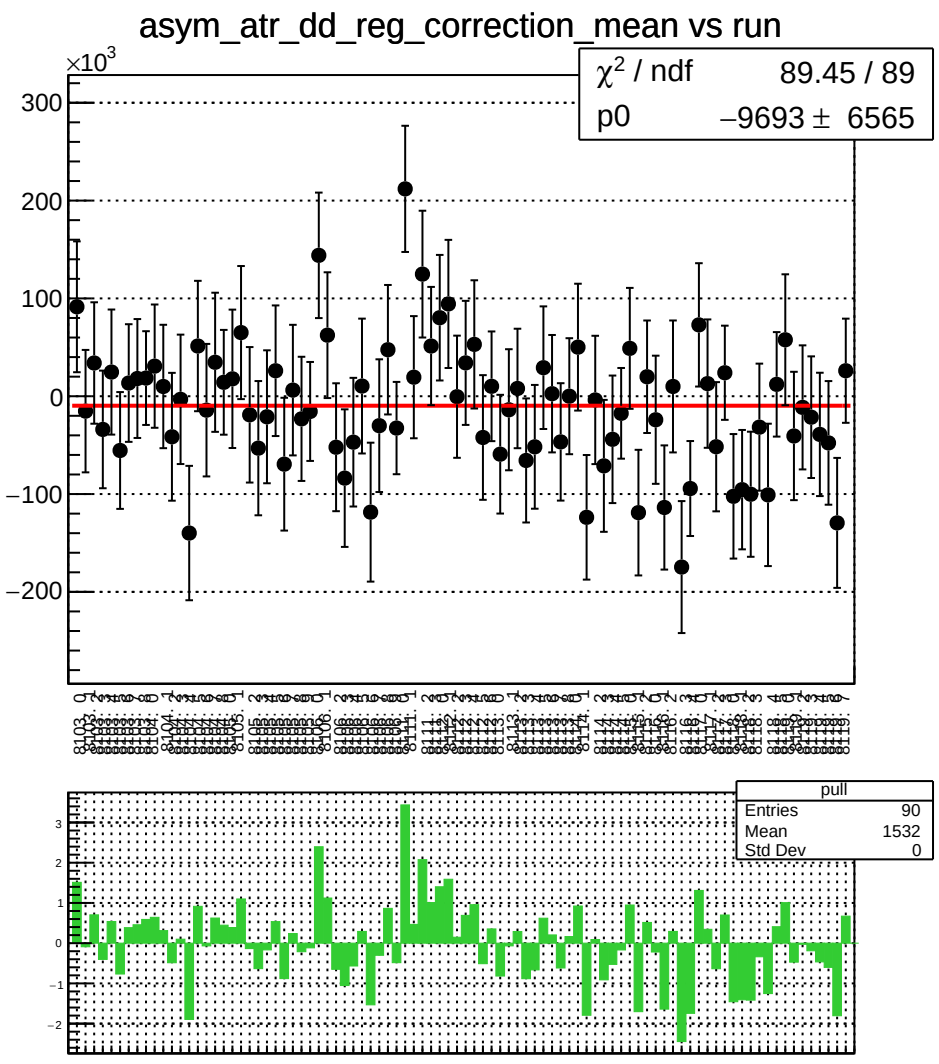

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 73.24 / 89
p0 −1.521e−13 ± 3.32e−13
pull
Entries 90
Mean 116.3
Std Dev 0
pull1D
Entries 90
Mean −0.05329
Std Dev 0.9005

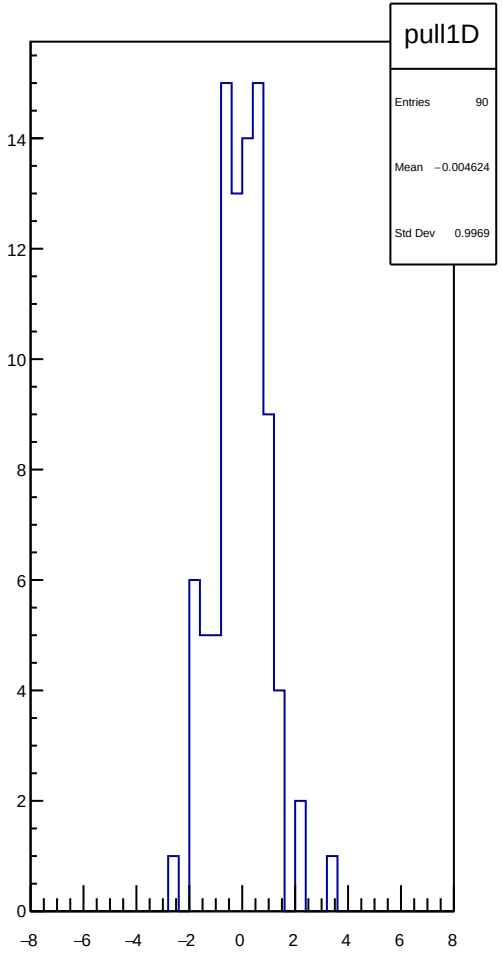

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.783e+05 / 89
p0 2.324e−10 ± 2.348e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

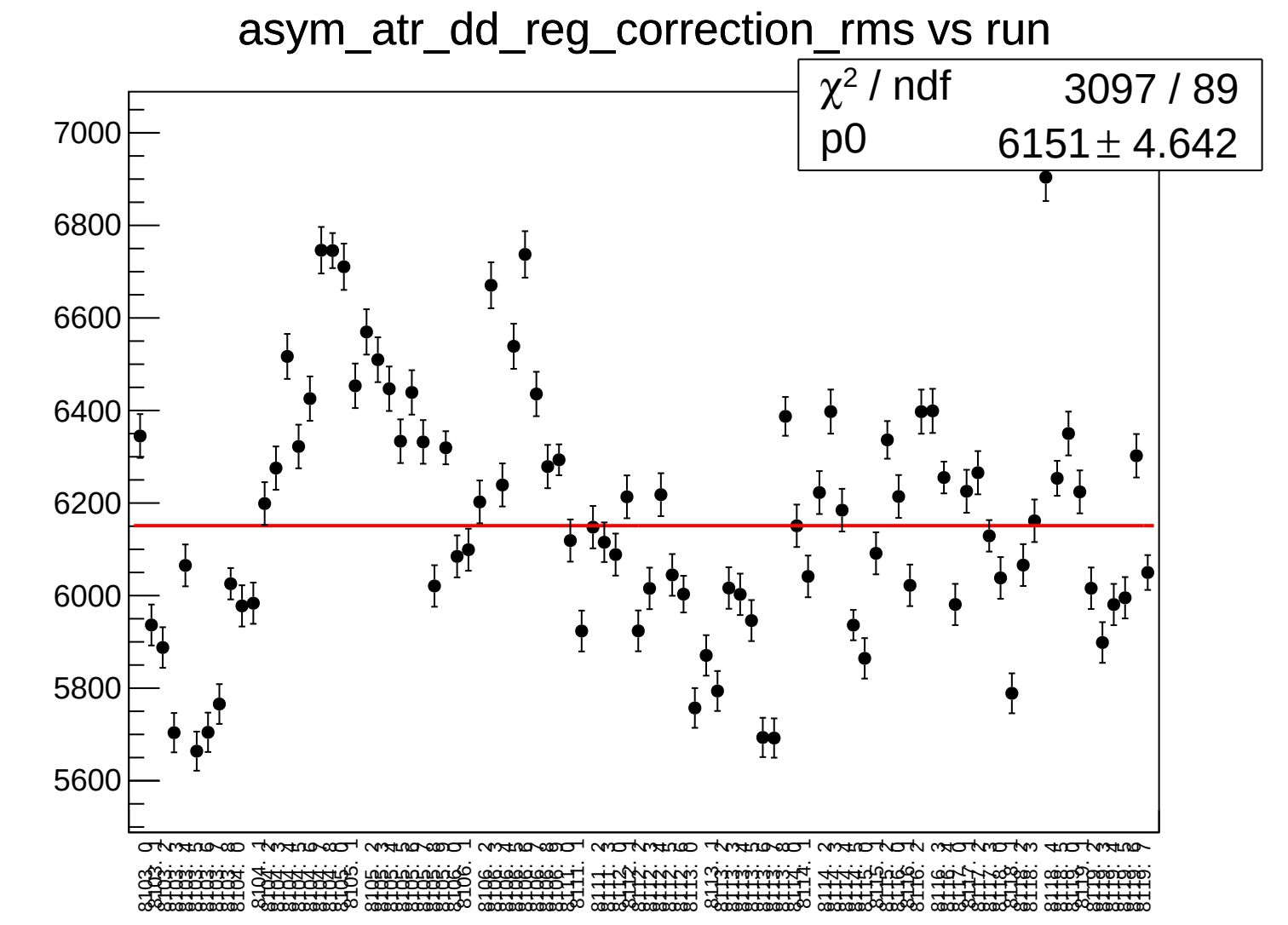

reg_asym_atr_dd_mean vs run
χ² / ndf 83.03 / 89
p0 −1274 ± 1904
pull
Entries 90
Mean −275.2
Std Dev 0

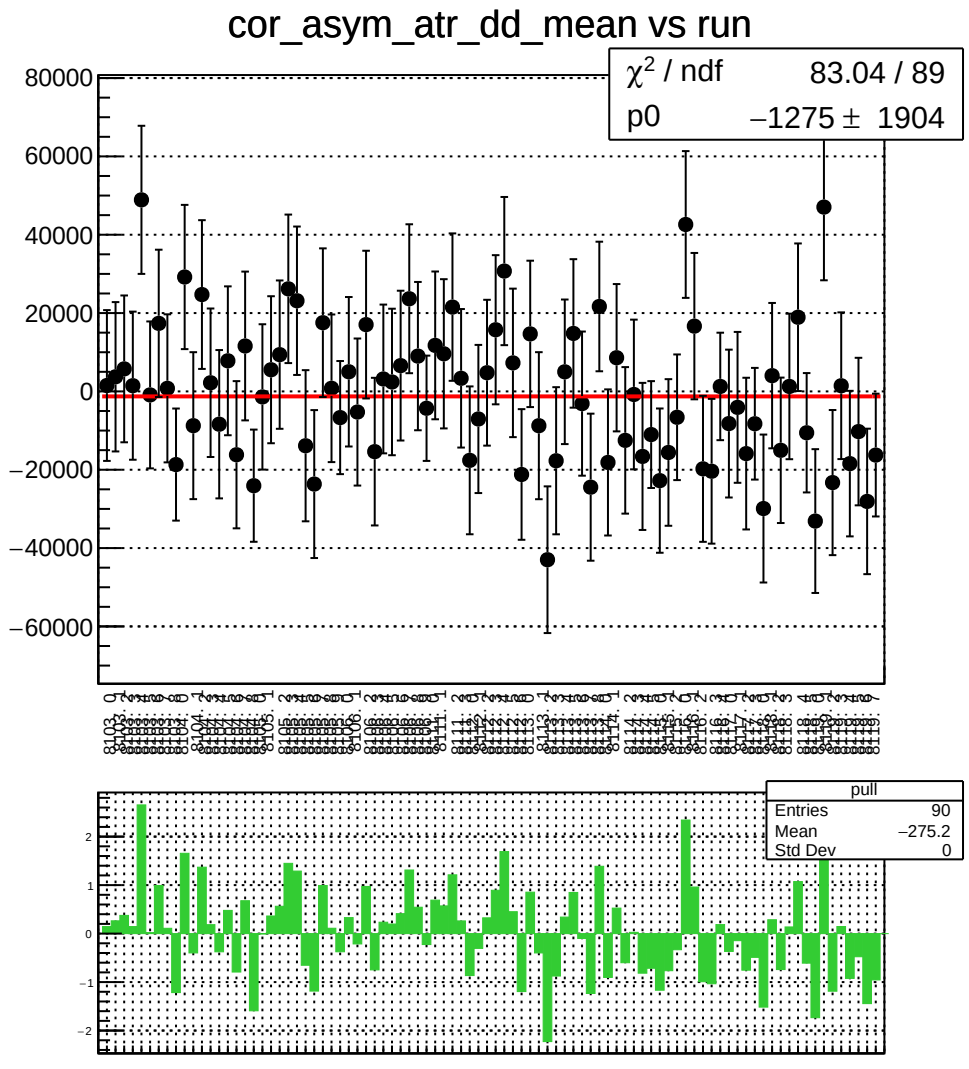

pull1D
Entries 90
Mean 0.02189
Std Dev 0.9603

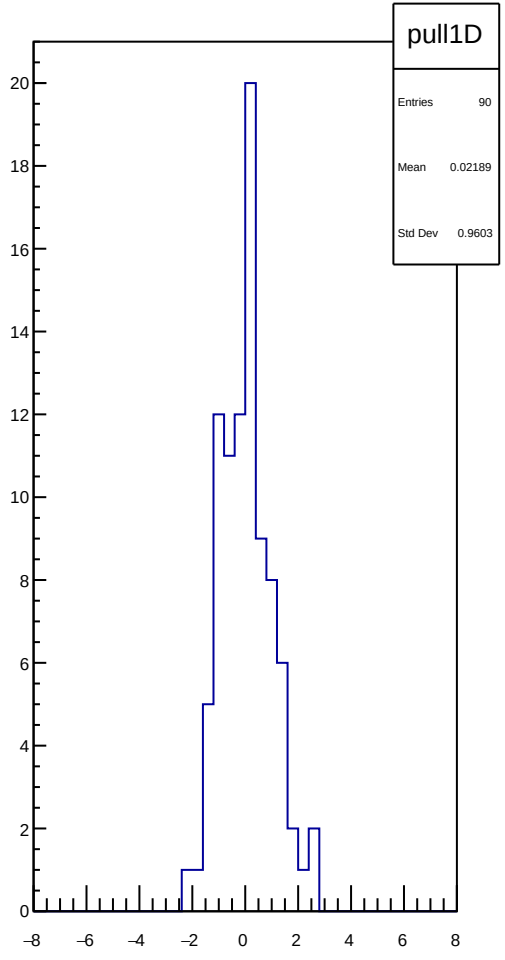

reg_asym_atr_dd_rms vs run
χ^2 / ndf 211.5 / 89
p0 1785 ± 1.346
1860
1840
1820
1800
1780
1760
1740
1720

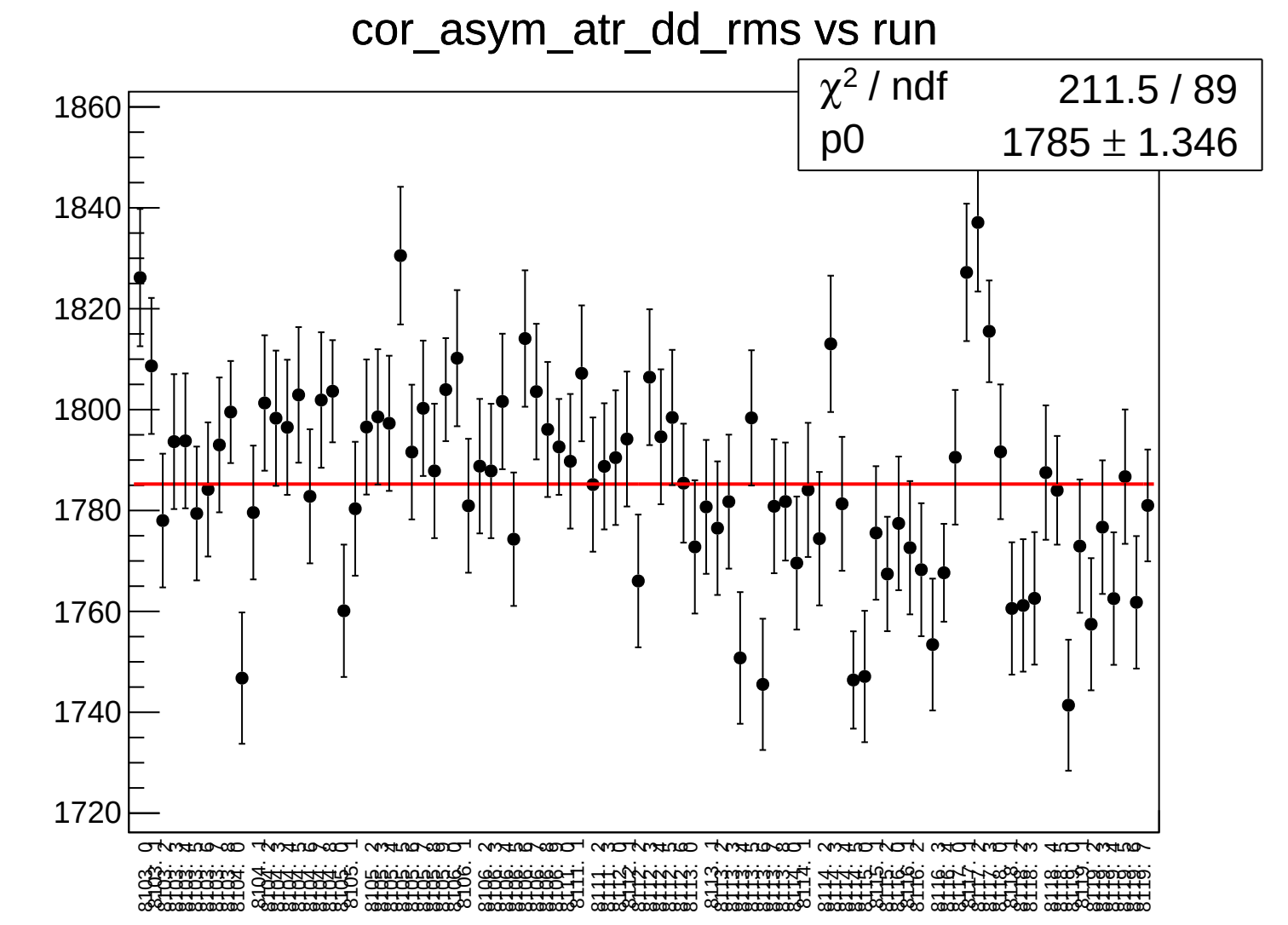

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.45 / 89
p0 −9693 ± 6565
300
200
100
0
−100
−200
pull
Entries 90
Mean 1532
Std Dev 0
3
2
1
0
−1
−2

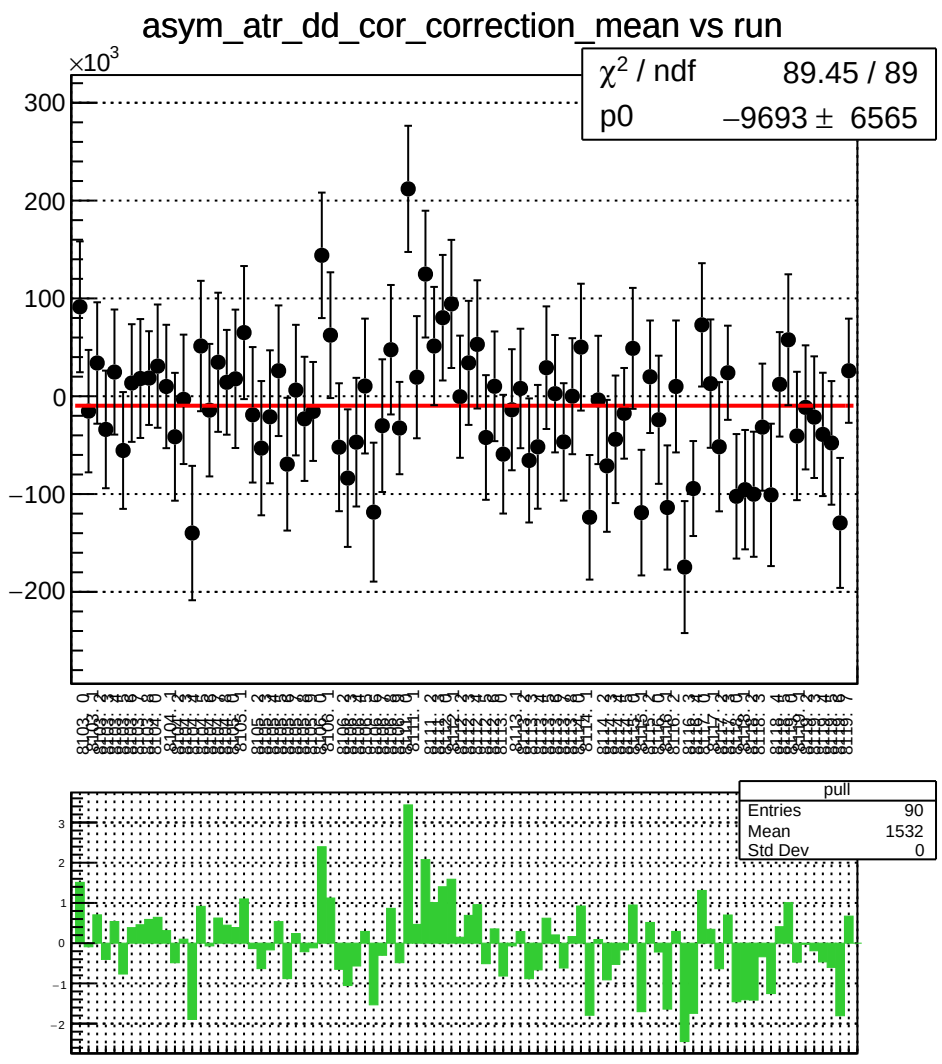

pull1D
Entries 90
Mean −0.004624
Std Dev 0.9969
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

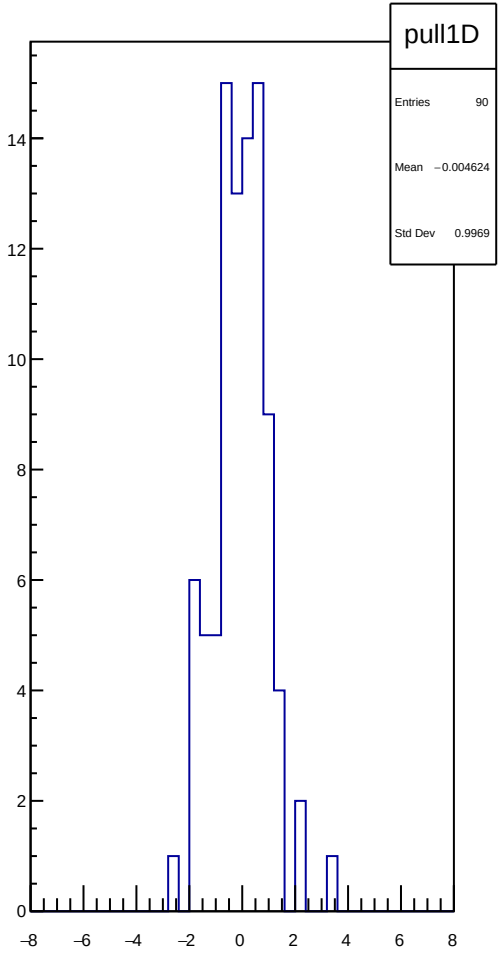

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3097 / 89
p0 6151 ± 4.642
7000
6800
6600
6400
6200
6000
5800
5600

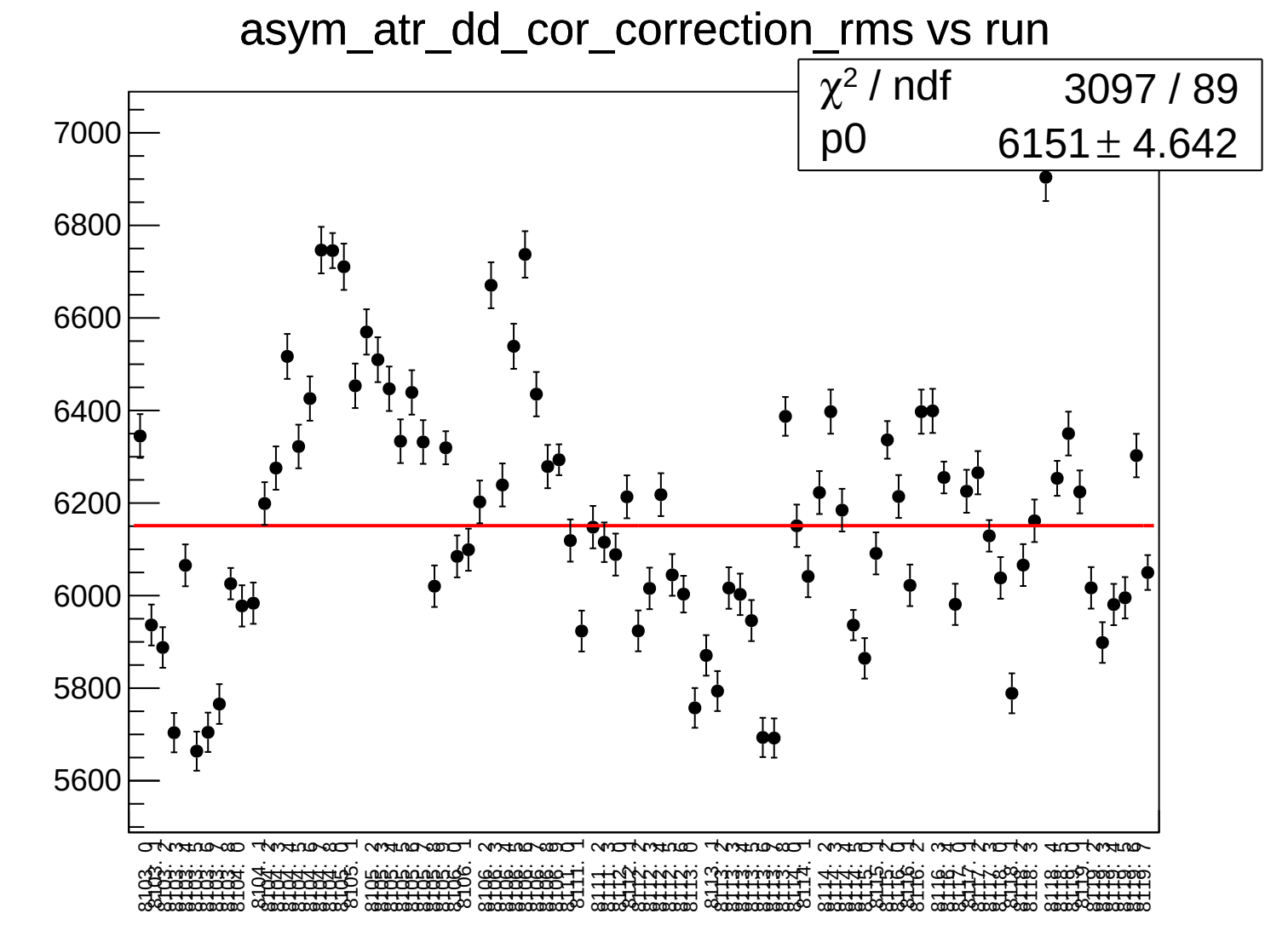

cor_asym_atr_dd_mean vs run
χ² / ndf 83.04 / 89
p0 −1275 ± 1904
pull
Entries 90
Mean −275.2
Std Dev 0

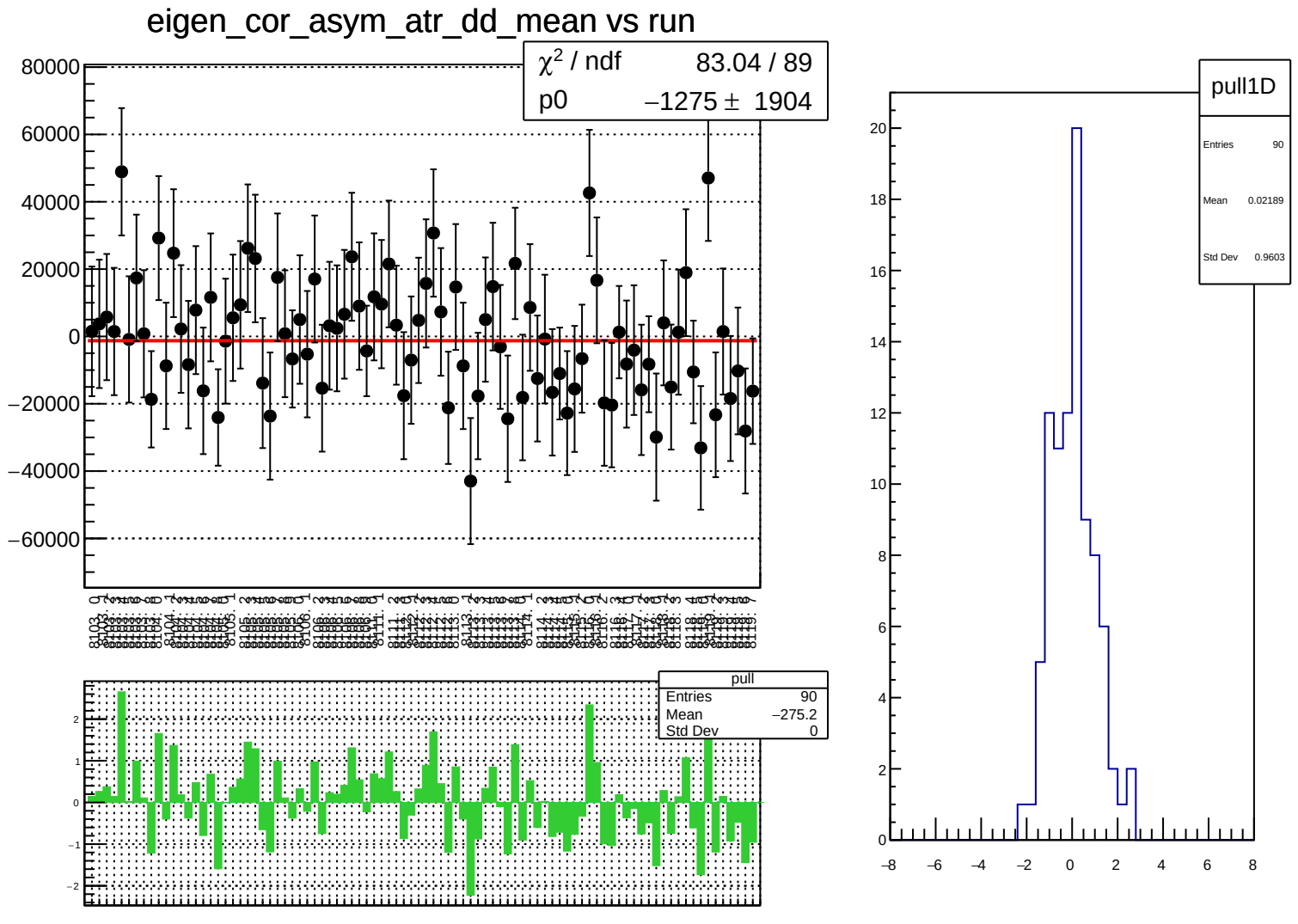

pull1D
Entries 90
Mean 0.02189
Std Dev 0.9603

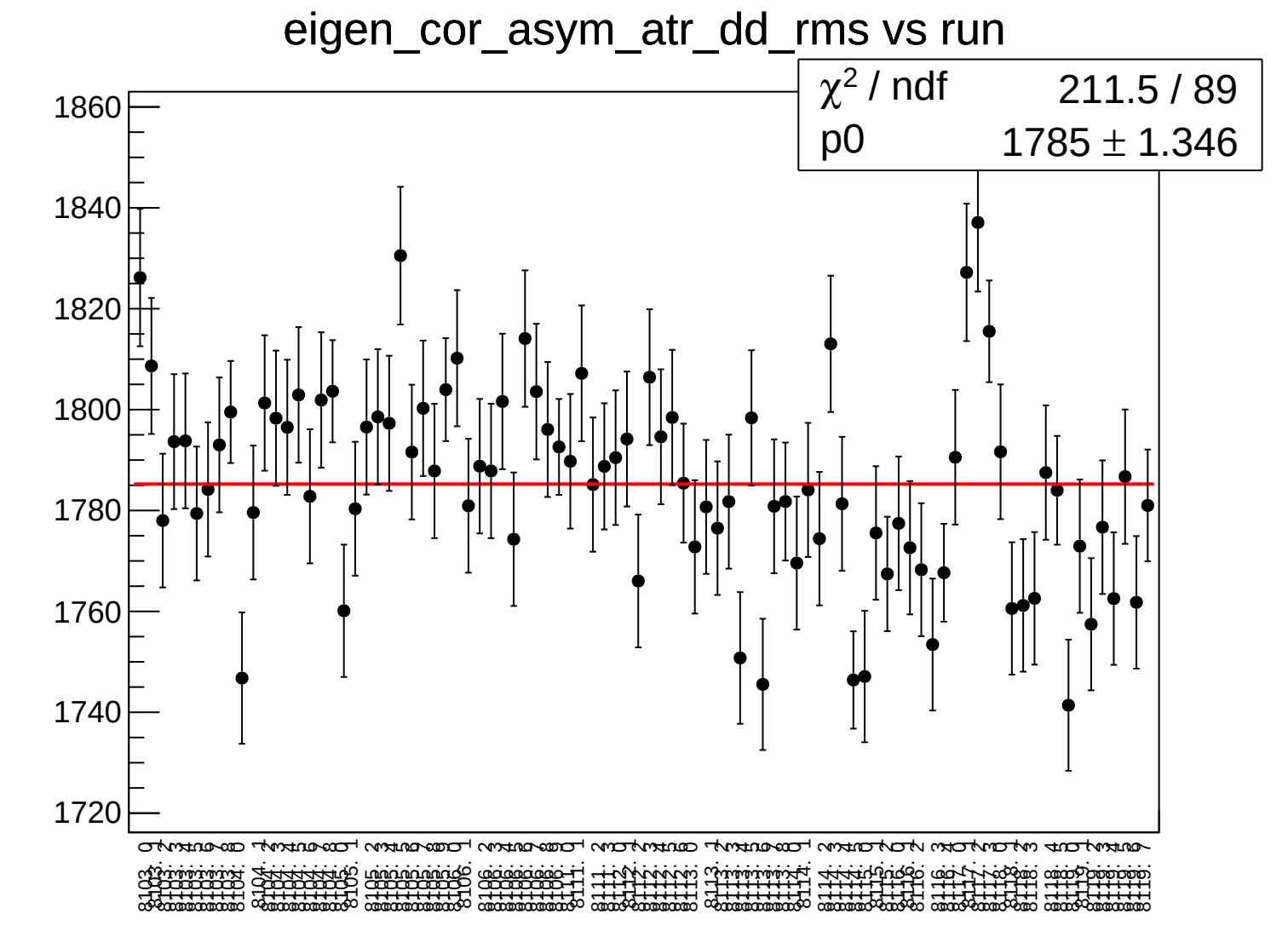

cor_asym_atr_dd_rms vs run
χ^2 / ndf 211.5 / 89
p0 1785 ± 1.346
1860
1840
1820
1800
1780
1760
1740
1720

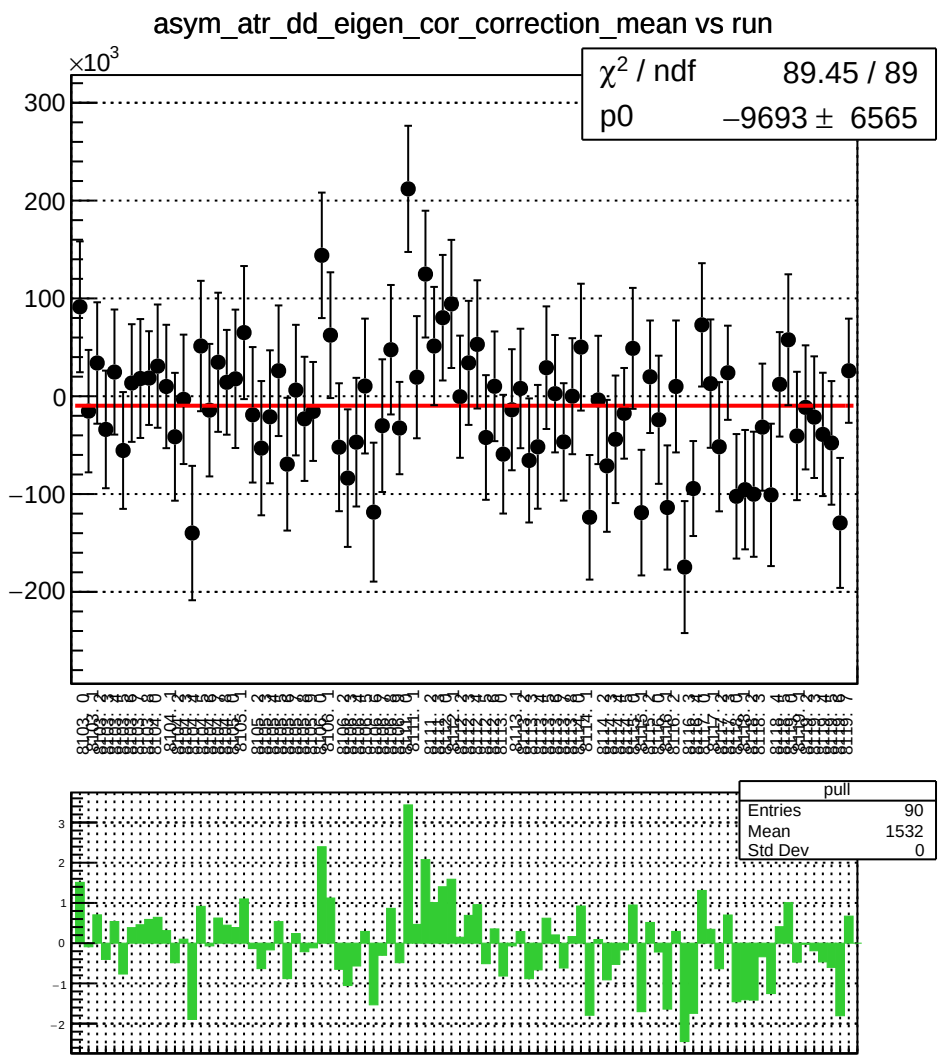

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.45 / 89
p0 −9693 ± 6565
300
200
100
0
−100
−200
pull
Entries 90
Mean 1532
Std Dev 0
3
2
1
0
−1
−2

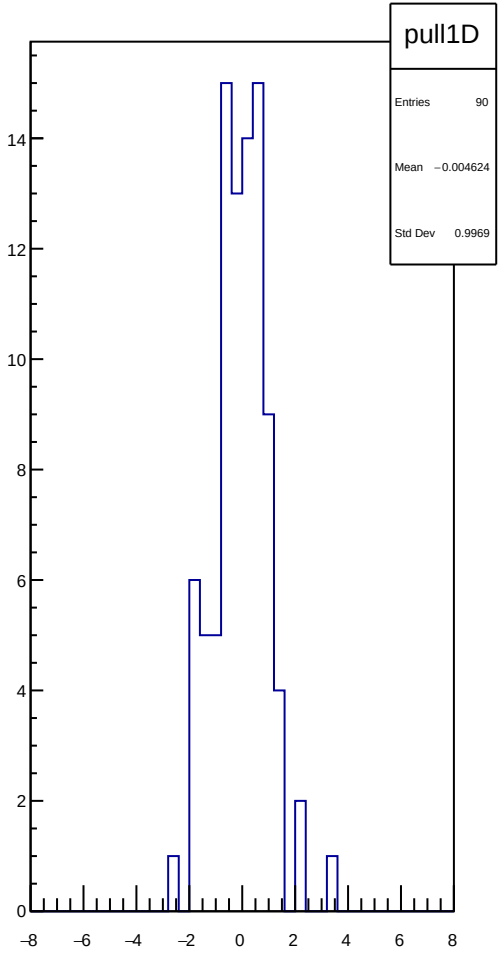

pull1D
Entries 90
Mean −0.004624
Std Dev 0.9969
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

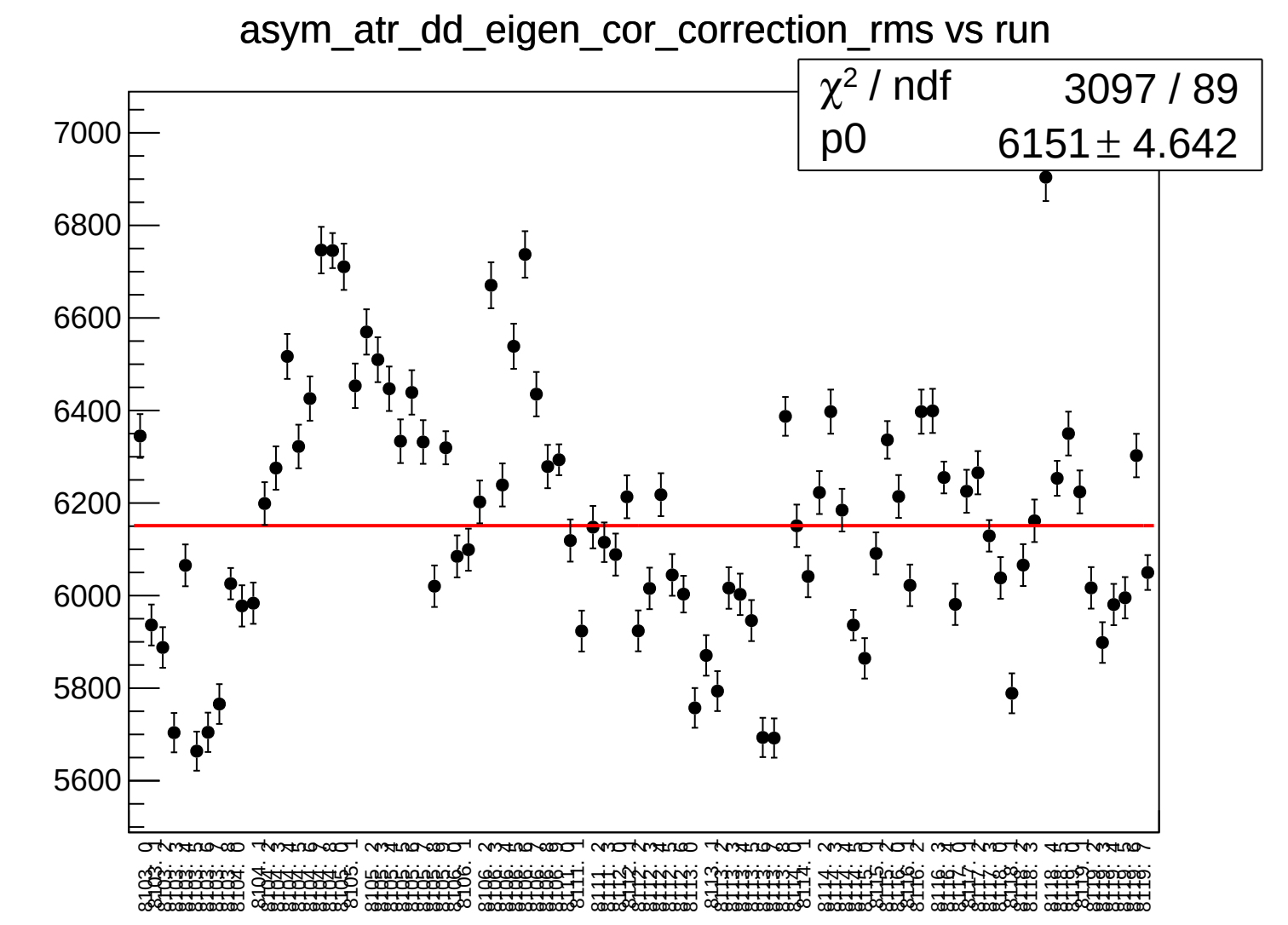

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3097 / 89
p0 6151 ± 4.642
7000
6800
6600
6400
6200
6000
5800
5600

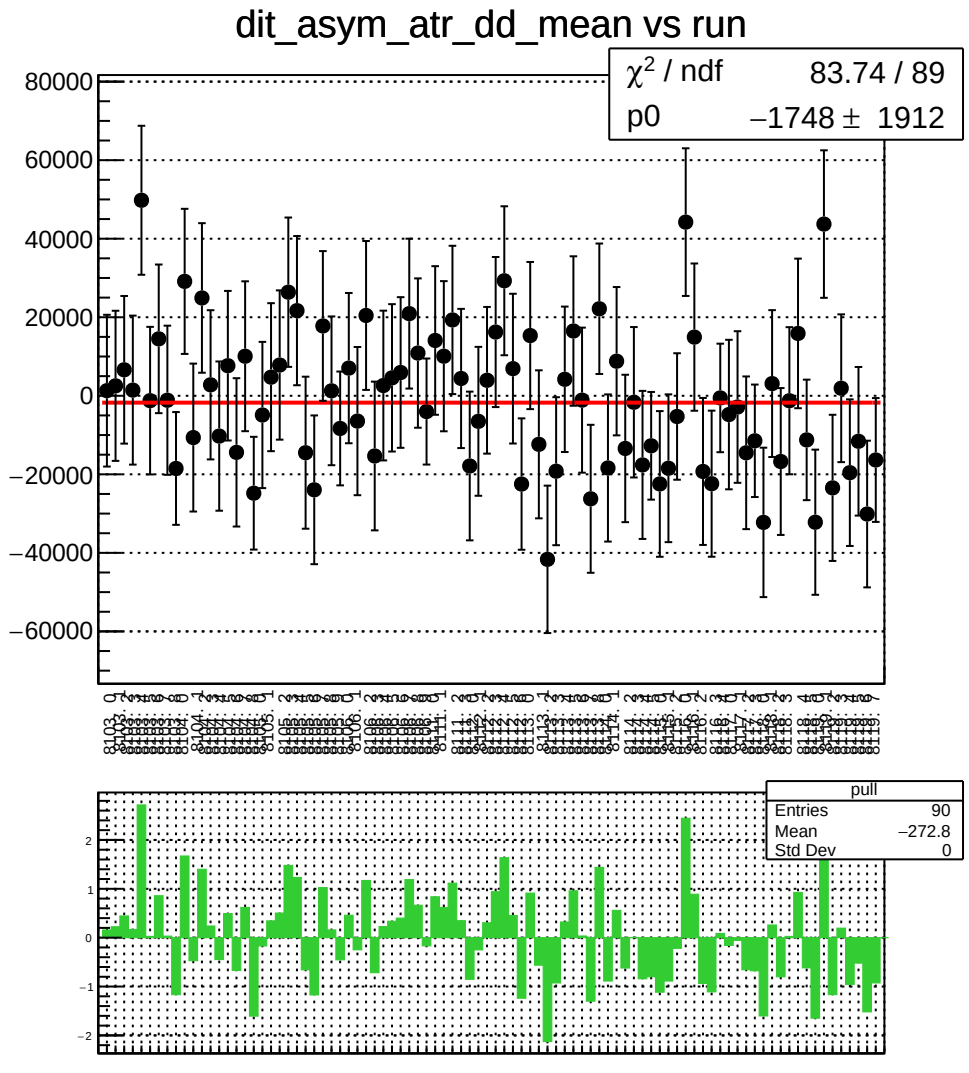

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 83.04 / 89
p0 −1275 ± 1904
pull
Entries 90
Mean −275.2
Std Dev 0
pull1D
Entries 90
Mean 0.02189
Std Dev 0.9603

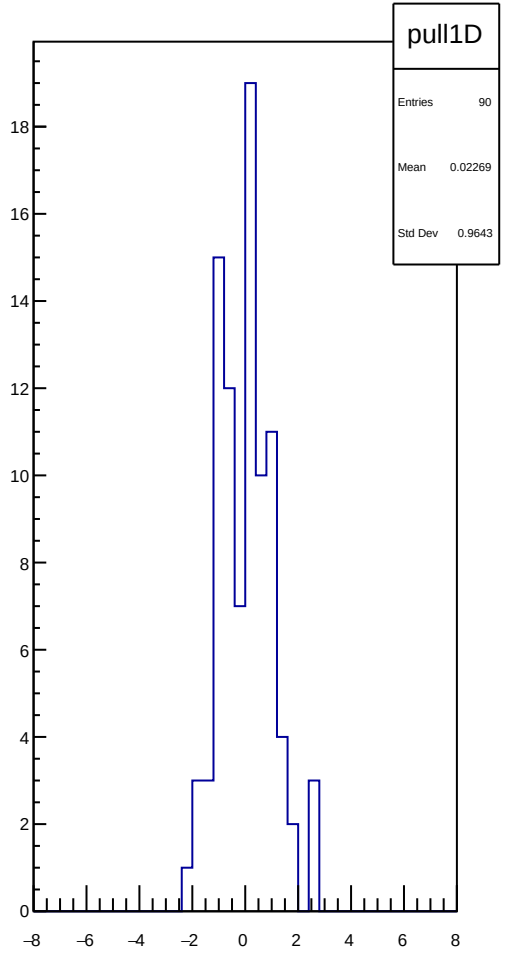

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 211.5 / 89
p0 1785 ± 1.346
1860
1840
1820
1800
1780
1760
1740
1720

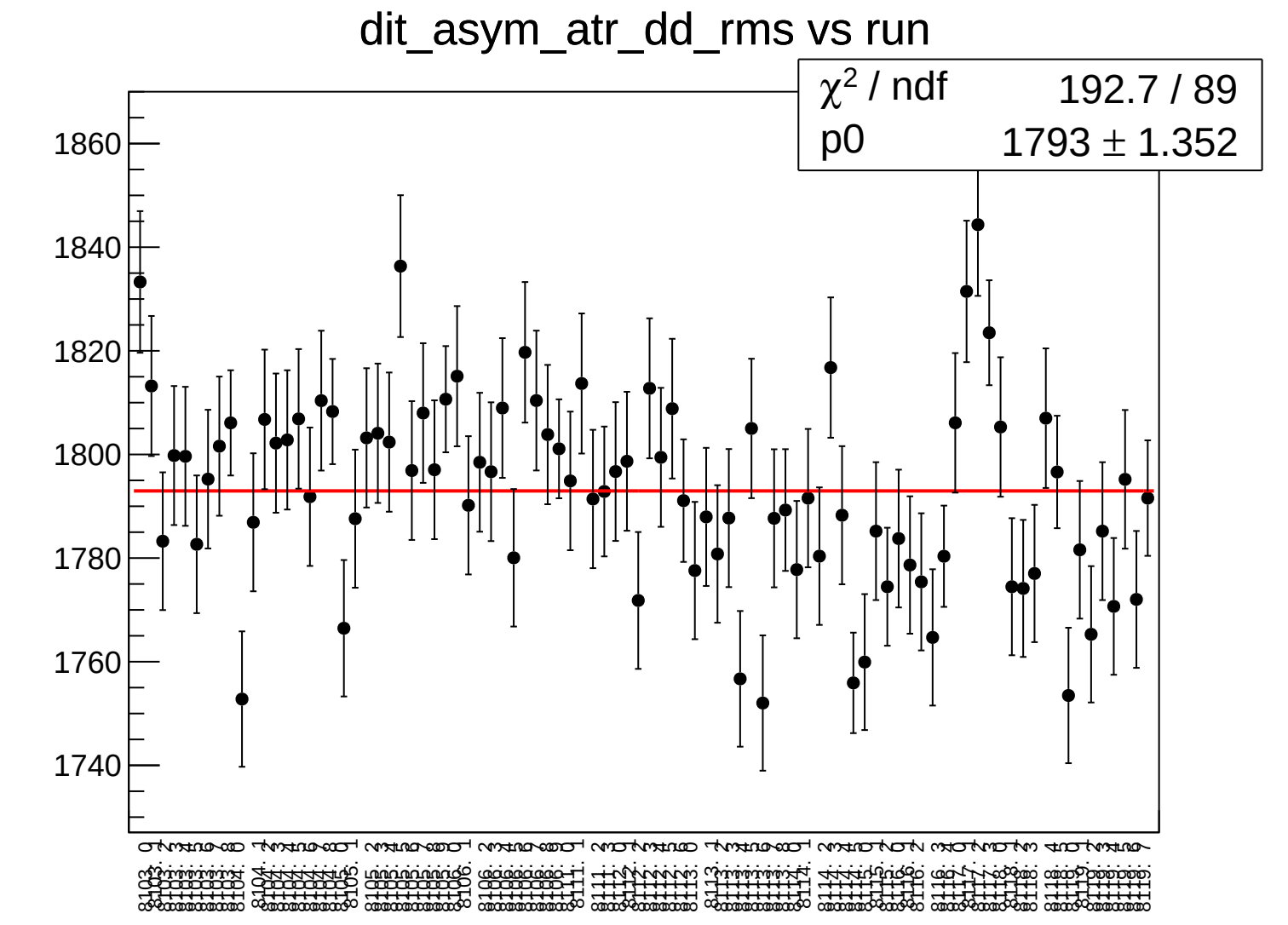

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.45 / 89
p0 −9693 ± 6565
300
200
100
0
−100
−200
pull
Entries 90
Mean 1532
Std Dev 0
3
2
1
0
−1
−2

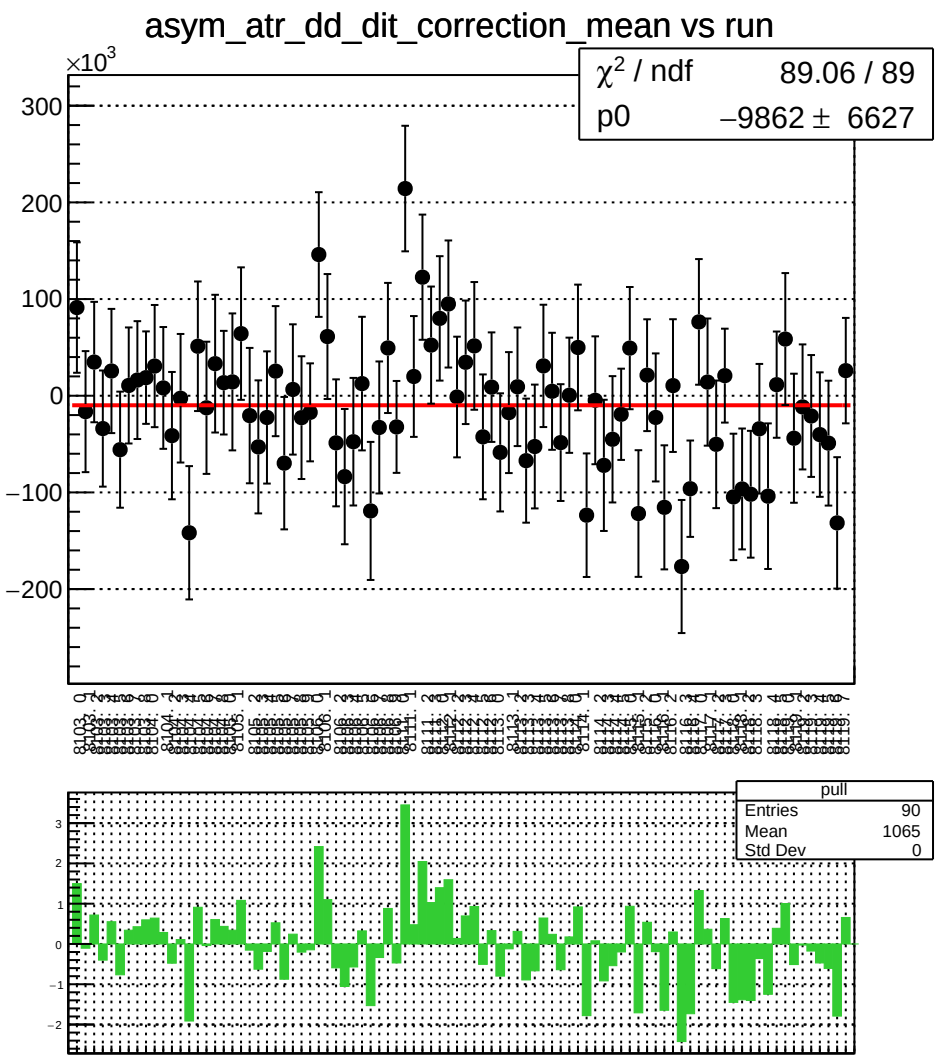

pull1D
Entries 90
Mean −0.004624
Std Dev 0.9969
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

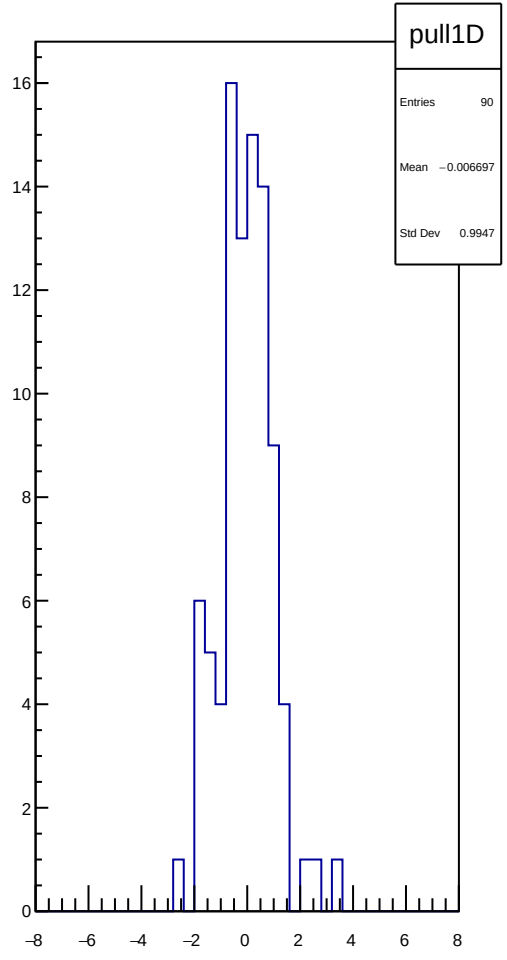

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3097 / 89
p0 6151 ± 4.642
7000
6800
6600
6400
6200
6000
5800
5600

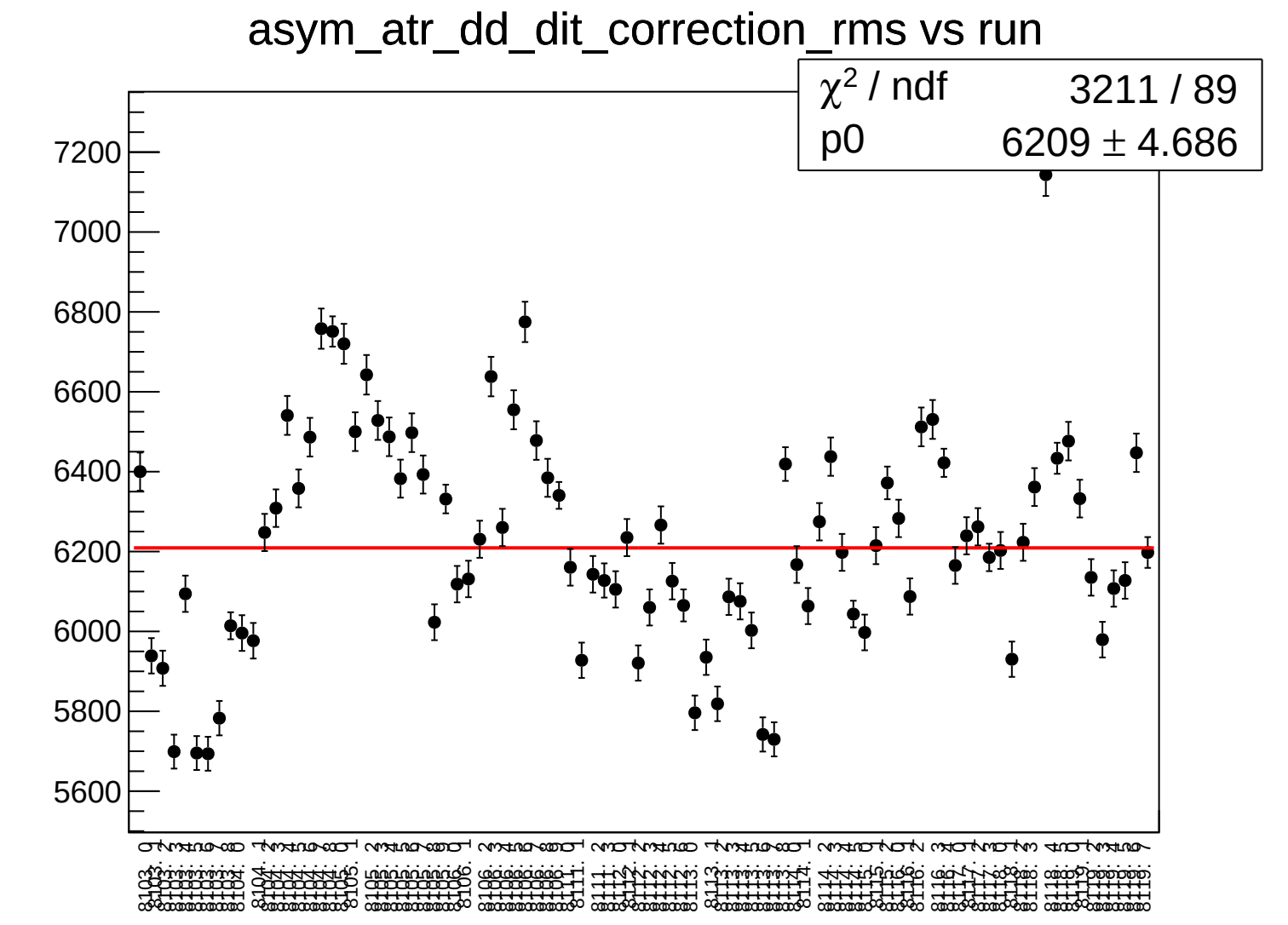

dit_asym_atr_dd_mean vs run
χ² / ndf 83.74 / 89
p0 −1748 ± 1912
pull
Entries 90
Mean −272.8
Std Dev 0

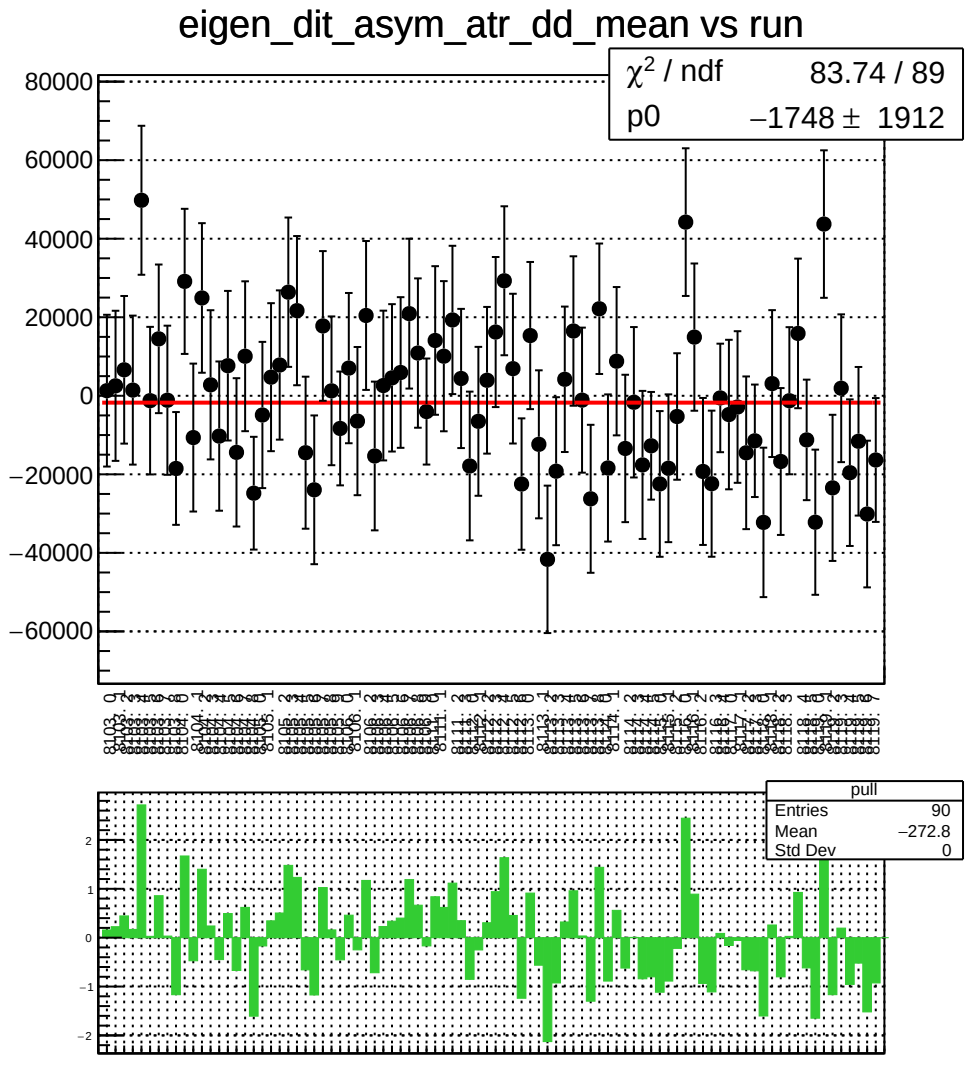

pull1D
Entries 90
Mean 0.02269
Std Dev 0.9643

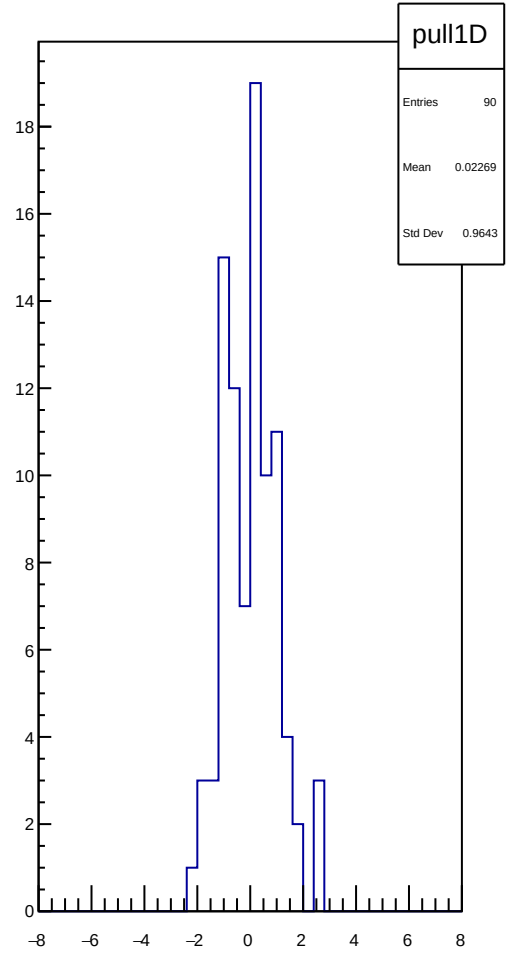

dit_asym_atr_dd_rms vs run
χ^2 / ndf 192.7 / 89
p0 1793 ± 1.352
1860
1840
1820
1800
1780
1760
1740

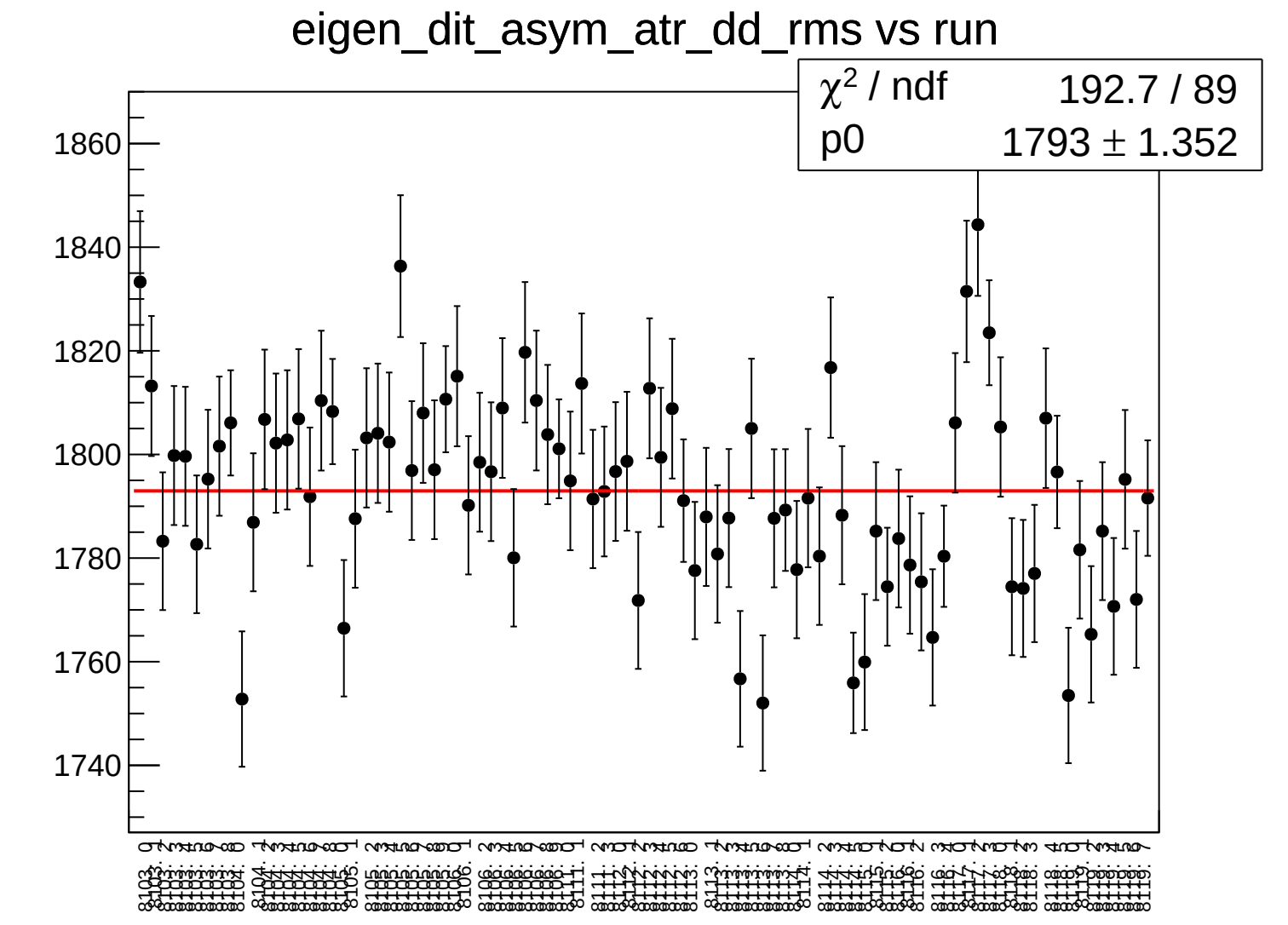

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.06 / 89
p0 −9862 ± 6627
300
200
100
0
−100
−200
pull
Entries 90
Mean 1065
Std Dev 0
3
2
1
0
−1
−2

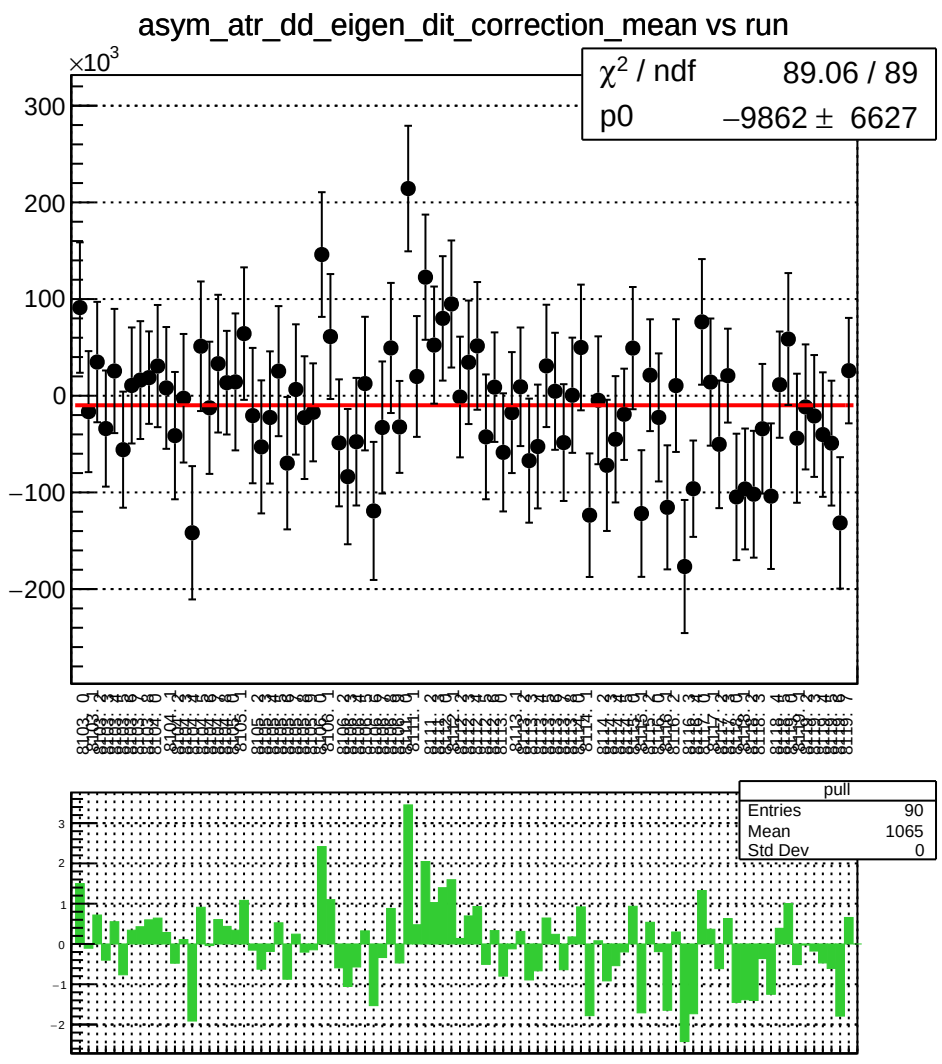

pull1D
Entries 90
Mean −0.006697
Std Dev 0.9947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

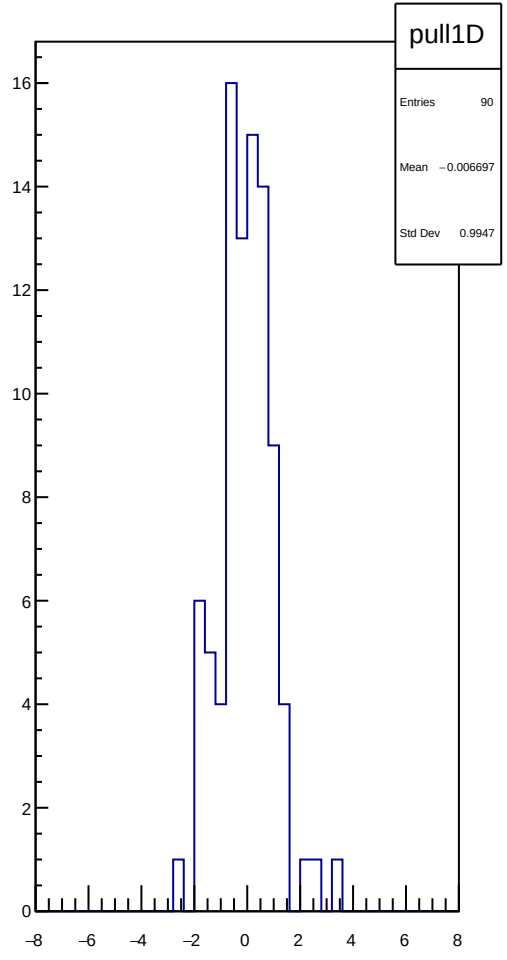

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 3211 / 89
p0 6209 ± 4.686
7200
7000
6800
6600
6400
6200
6000
5800
5600

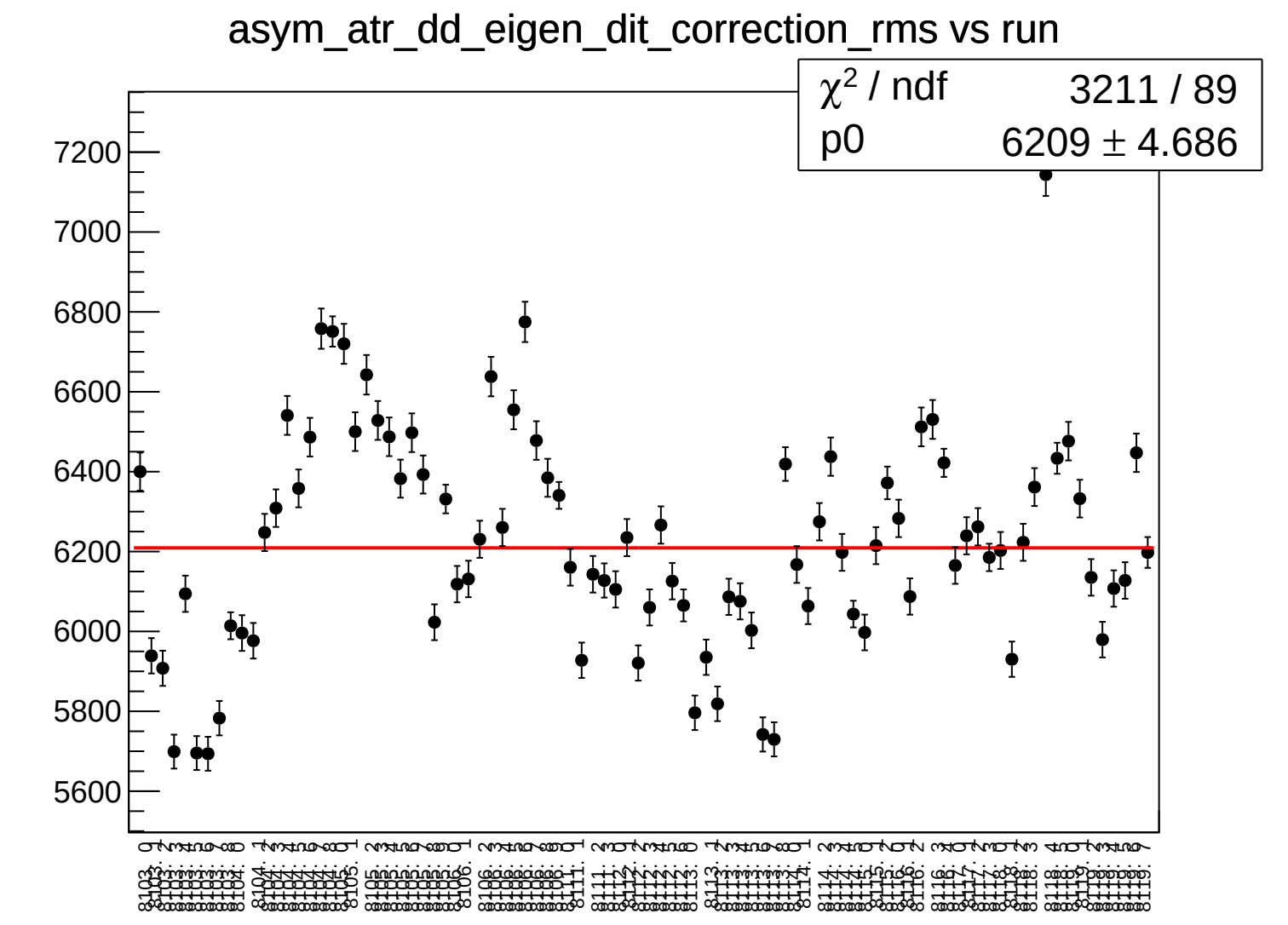

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 83.74 / 89
p0 −1748 ± 1912
pull
Entries 90
Mean −272.8
Std Dev 0

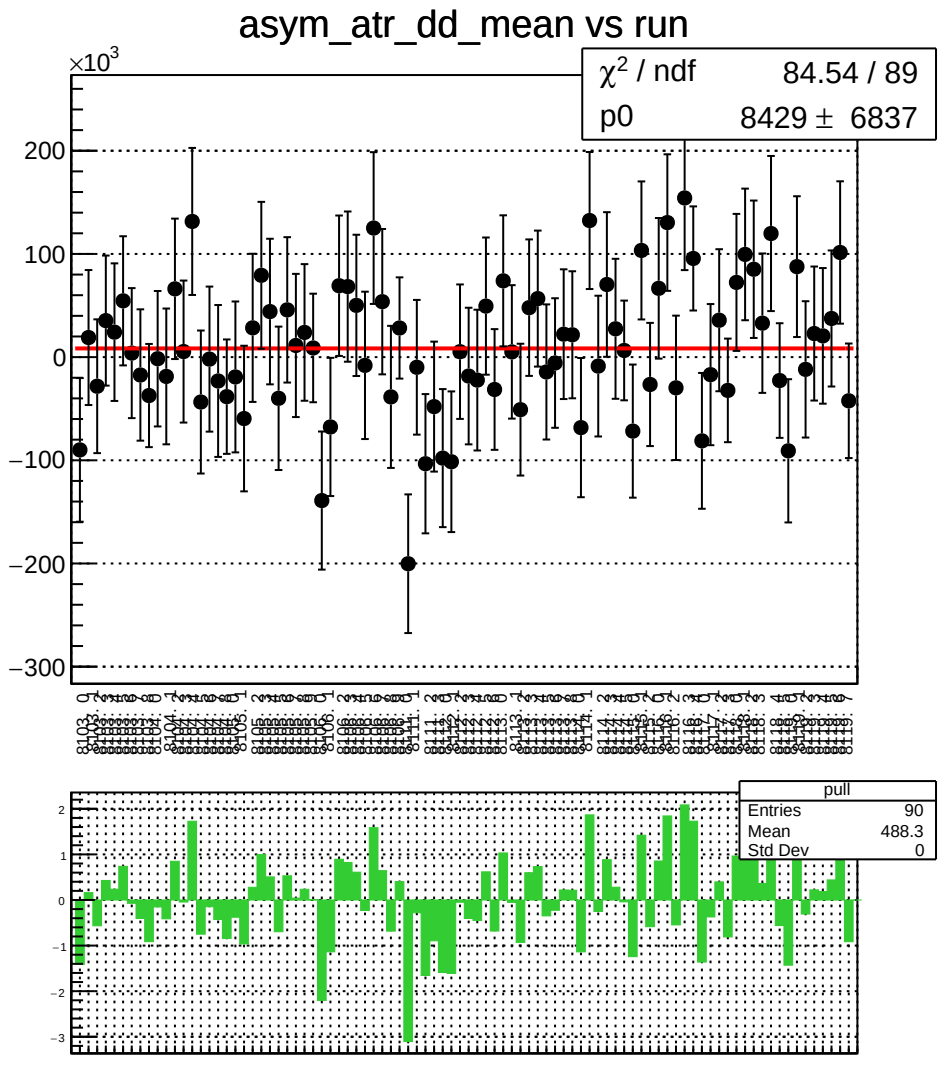

pull1D
Entries 90
Mean 0.02269
Std Dev 0.9643

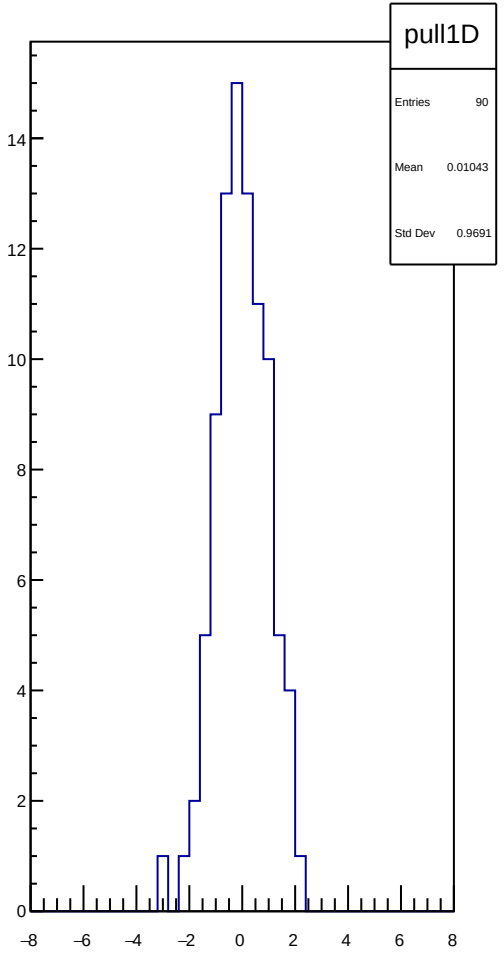

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 192.7 / 89
p0 1793 ± 1.352
1860
1840
1820
1800
1780
1760
1740

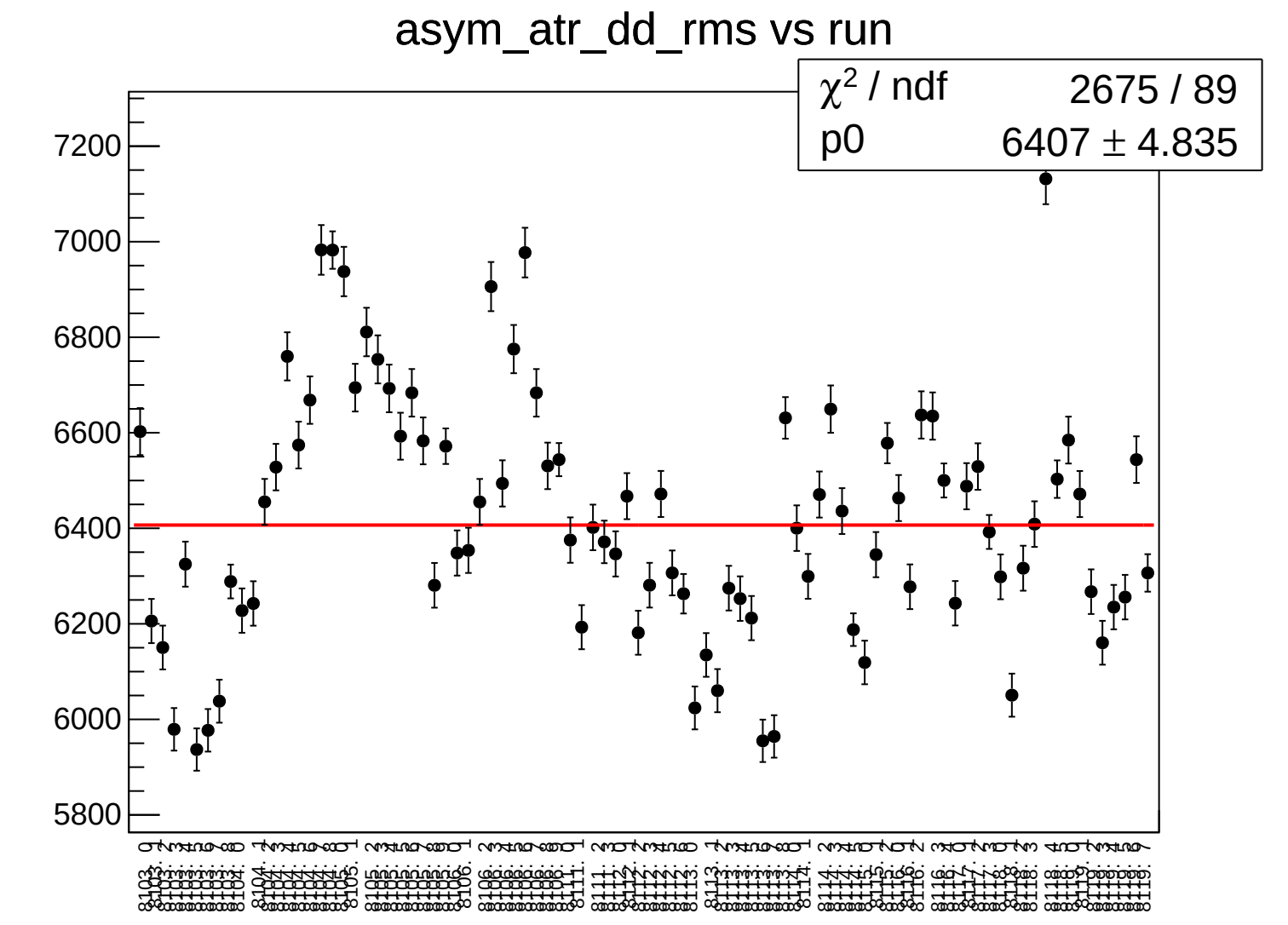

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.06 / 89
p0 −9862 ± 6627
300
200
100
0
−100
−200
pull
Entries 90
Mean 1065
Std Dev 0
3
2
1
0
−1
−2

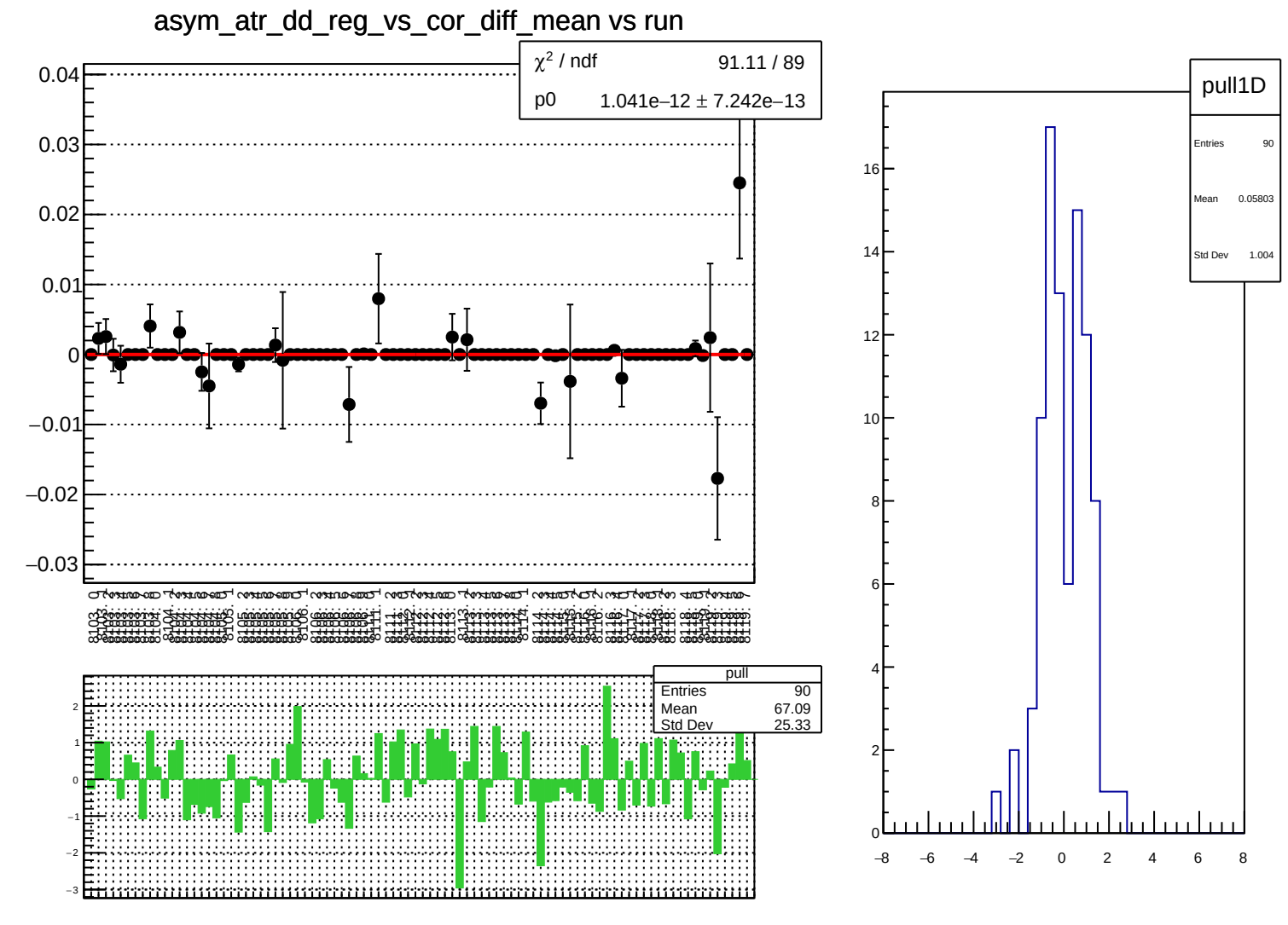

pull1D
Entries 90
Mean −0.006697
Std Dev 0.9947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

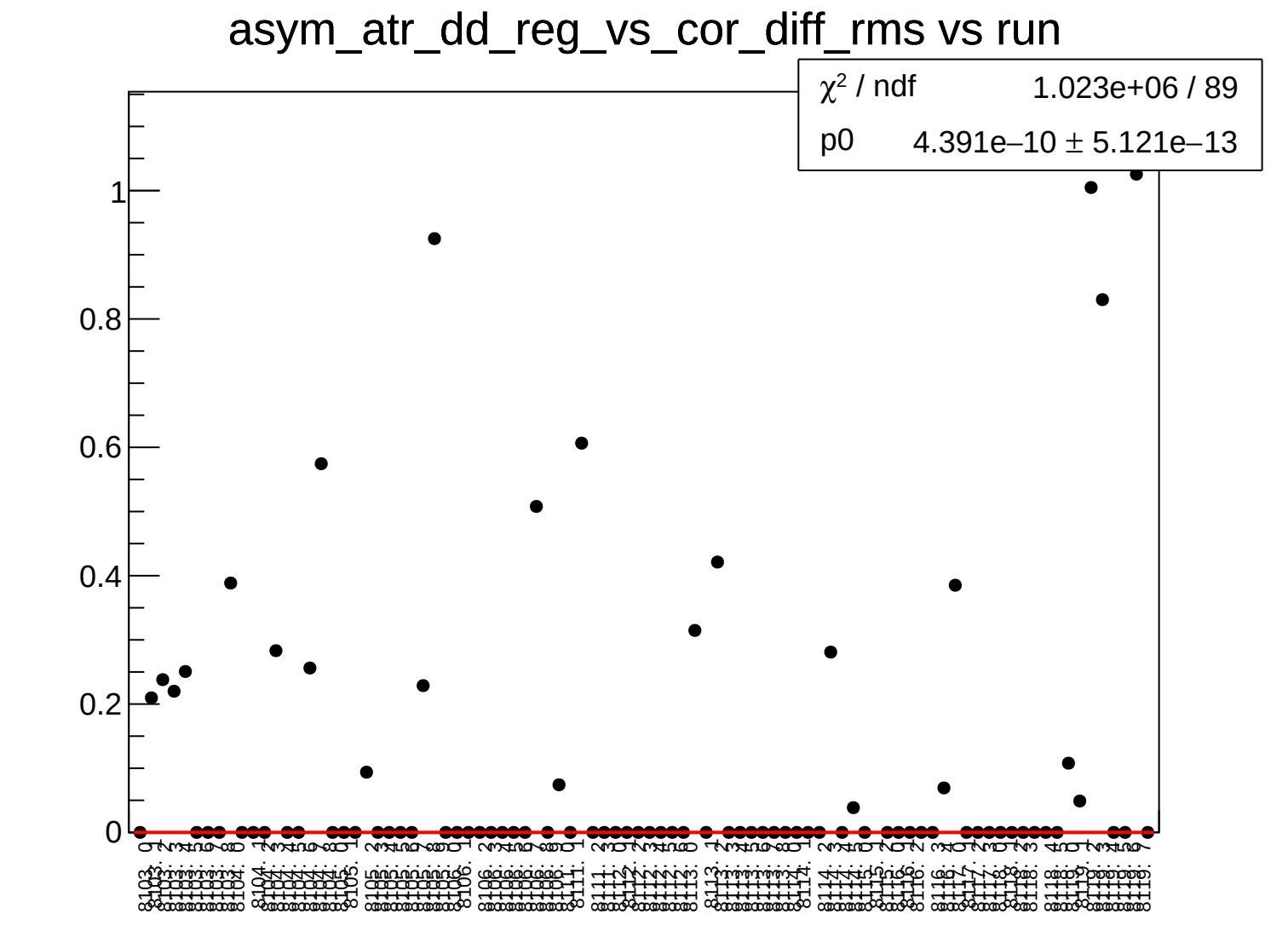

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3211 / 89
p0 6209 ± 4.686
7200
7000
6800
6600
6400
6200
6000
5800
5600

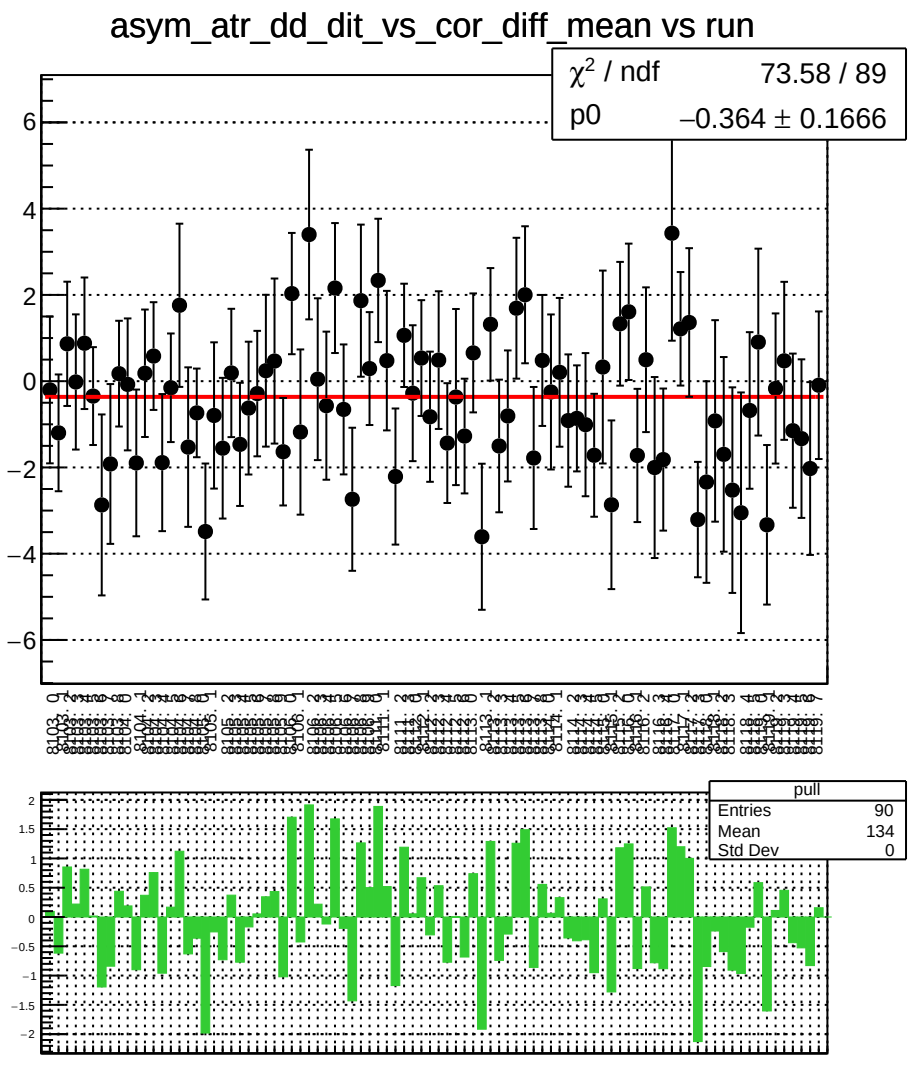

asym_atr_dd_mean vs run
×10^3
χ² / ndf 84.54 / 89
p0 8429 ± 6837
200
100
0
−100
−200
−300
pull
Entries 90
Mean 488.3
Std Dev 0
2
1
0
−1
−2
−3

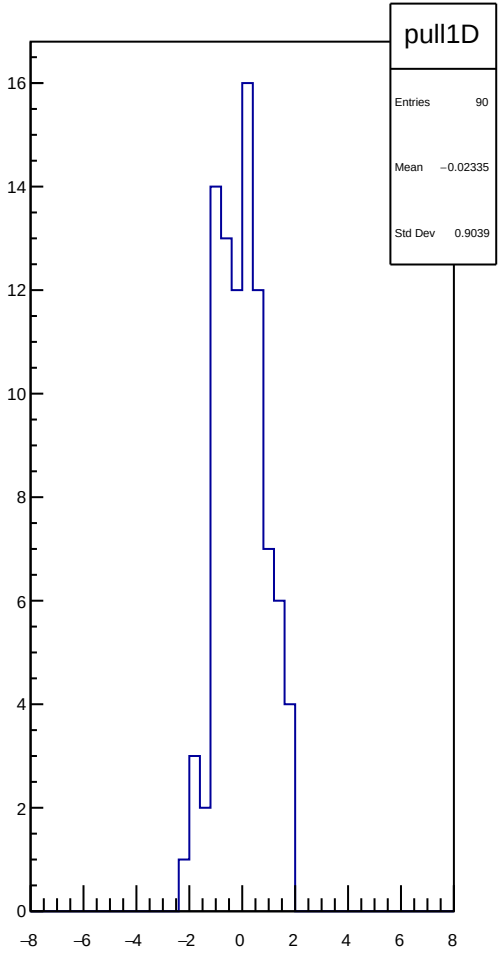

pull1D
Entries 90
Mean 0.01043
Std Dev 0.9691
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

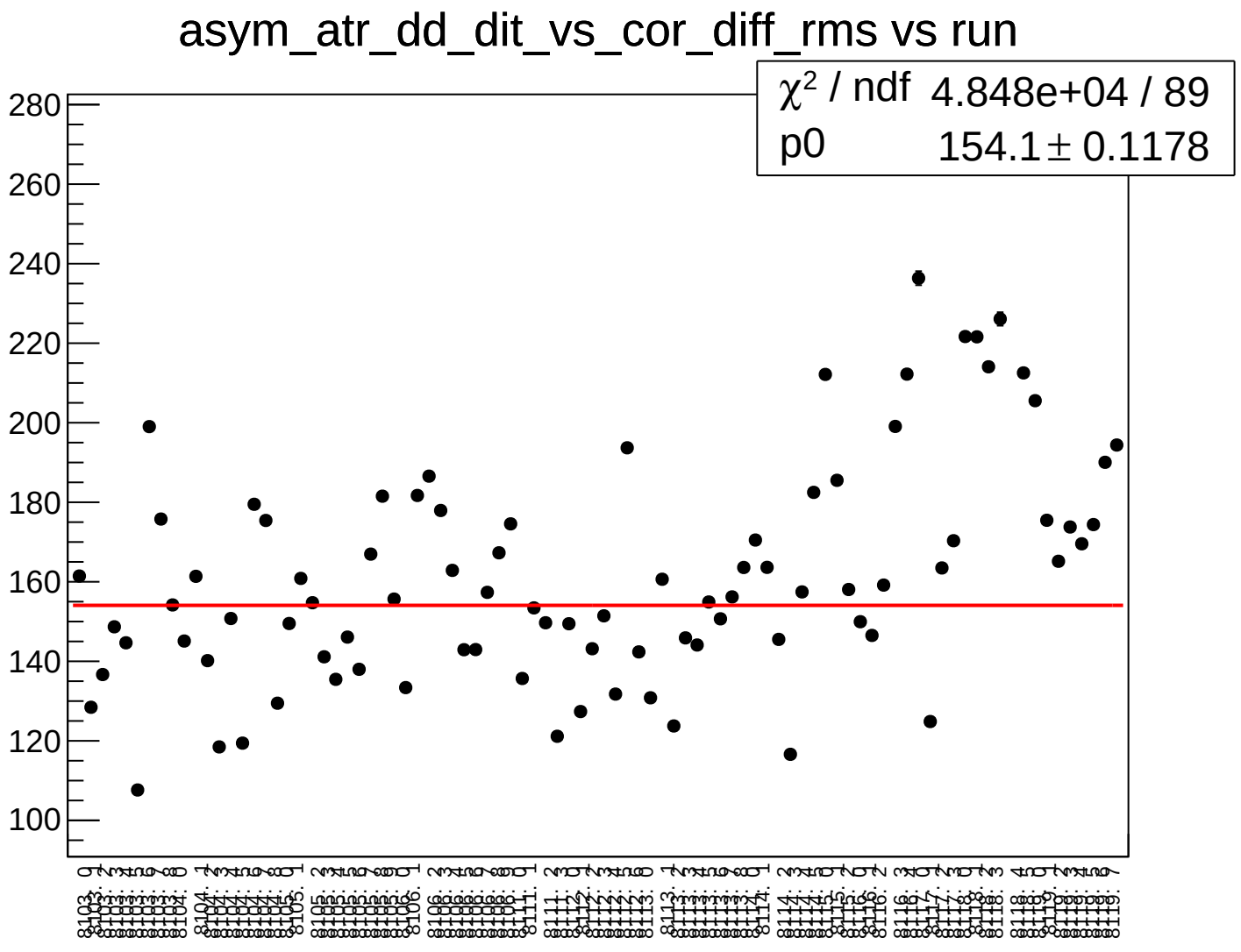

asym_atr_dd_rms vs run
χ² / ndf 2675 / 89
p0 6407 ± 4.835
7200
7000
6800
6600
6400
6200
6000
5800

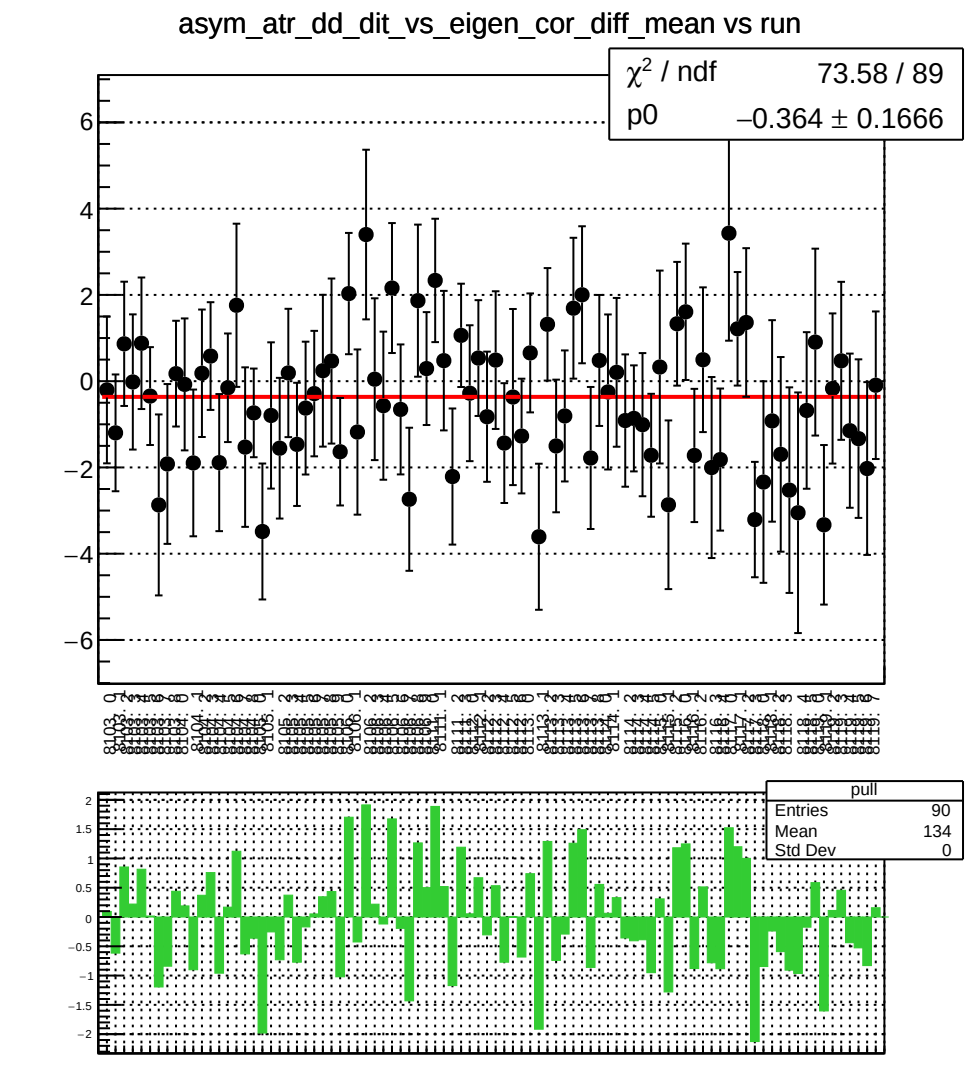

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.11 / 89
p0 1.041e−12 ± 7.242e−13
pull
Entries 90
Mean 67.09
Std Dev 25.33
pull1D
Entries 90
Mean 0.05803
Std Dev 1.004

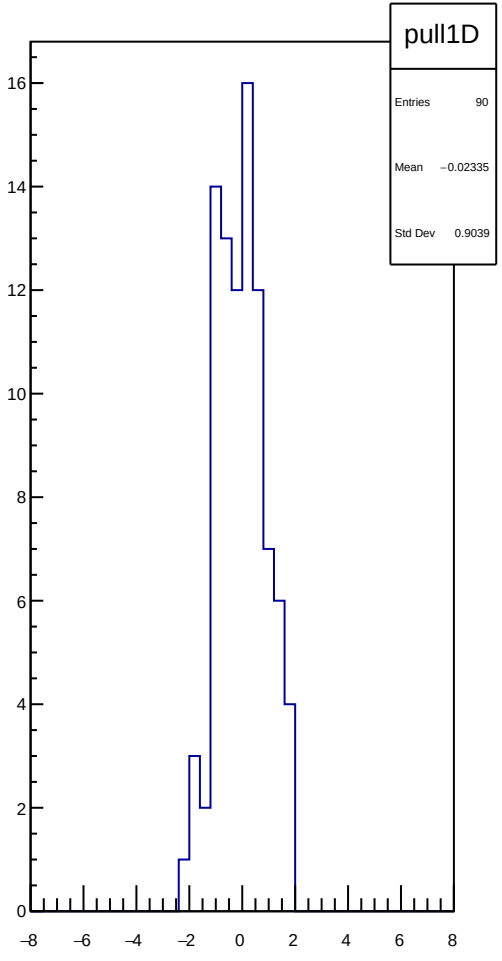

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.023e+06 / 89
p0 4.391e−10 ± 5.121e−13
1
0.8
0.6
0.4
0.2
0

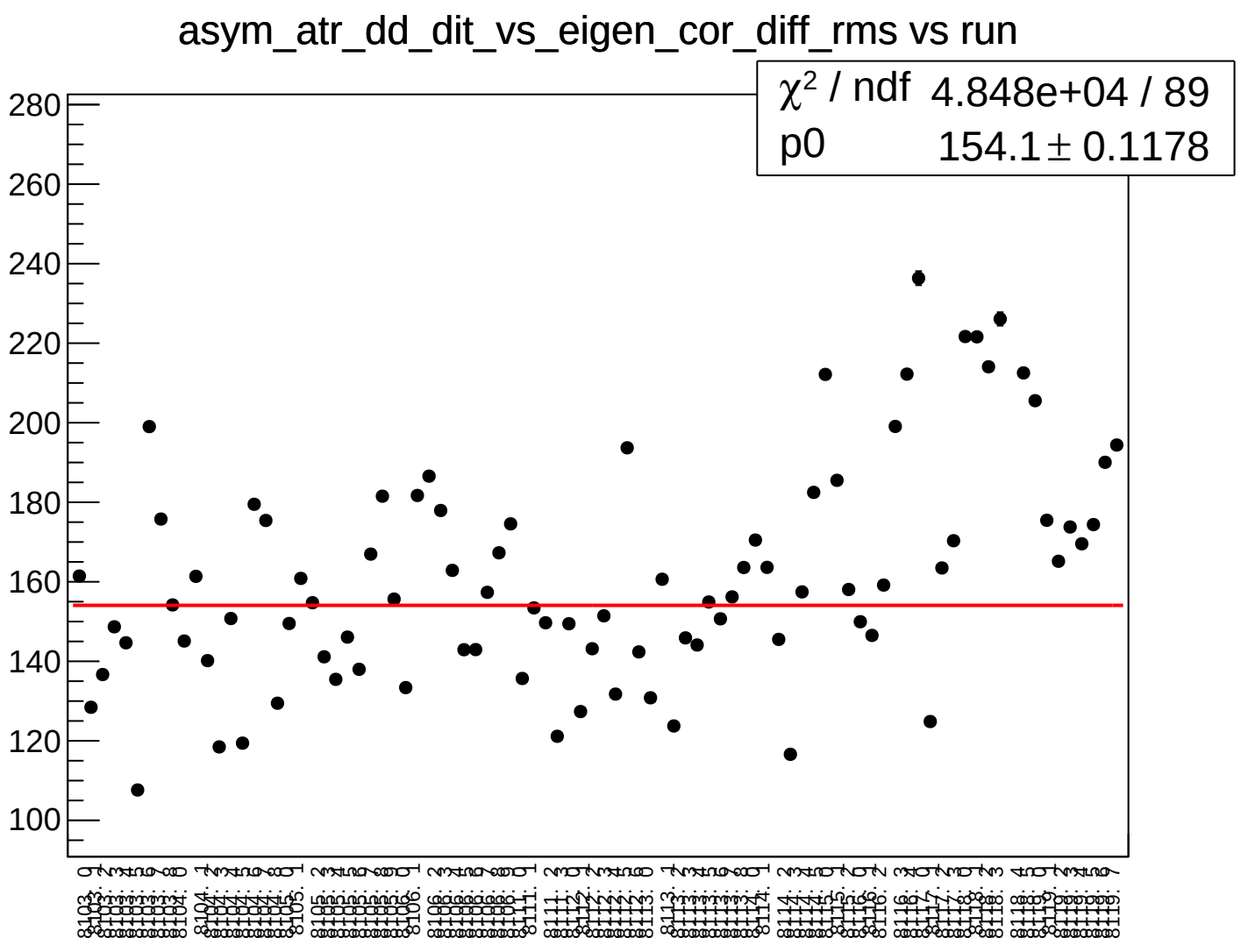

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.58 / 89
p0 −0.364 ± 0.1666
pull
Entries 90
Mean 134
Std Dev 0

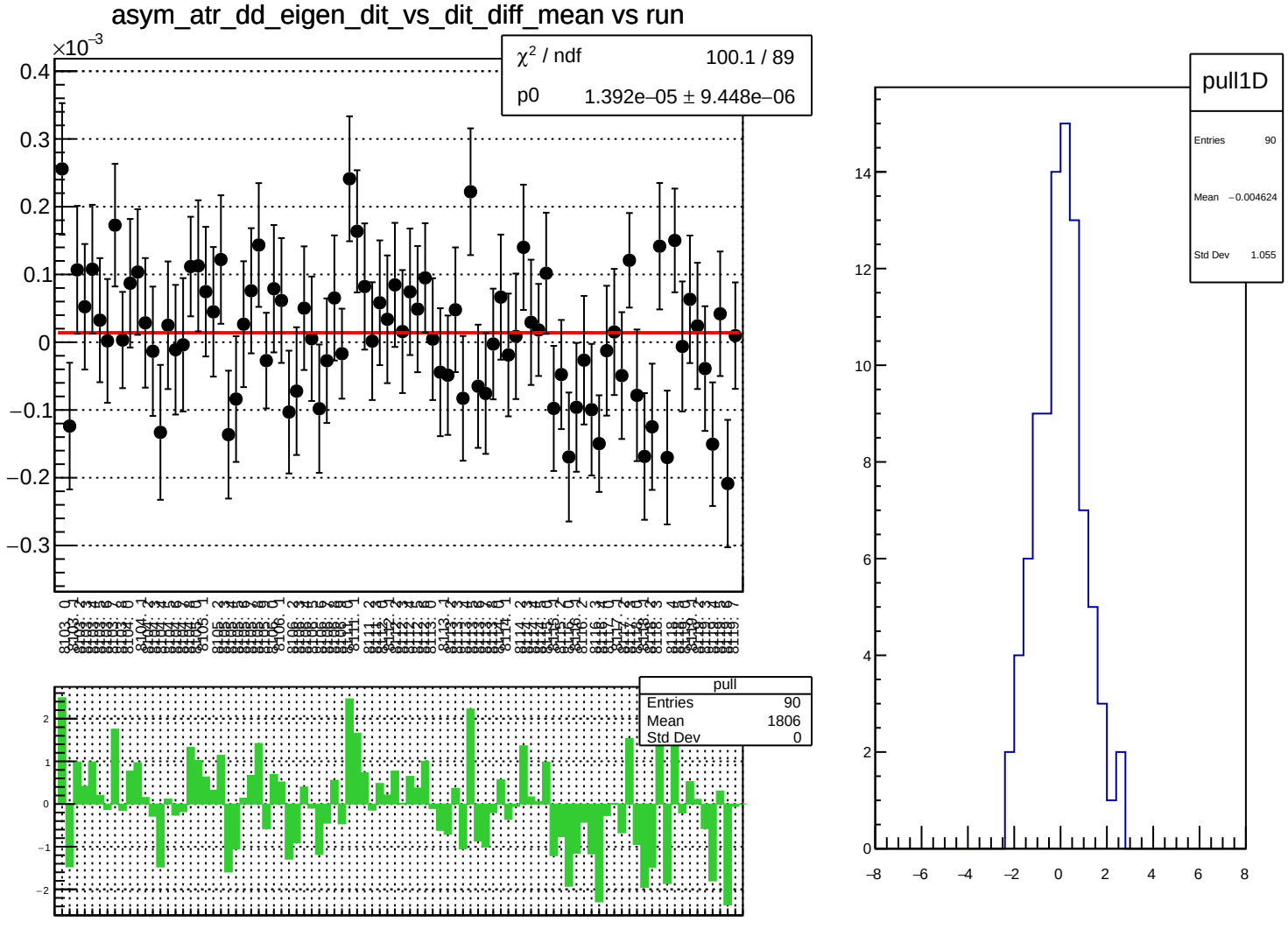

pull1D
Entries 90
Mean −0.02335
Std Dev 0.9039

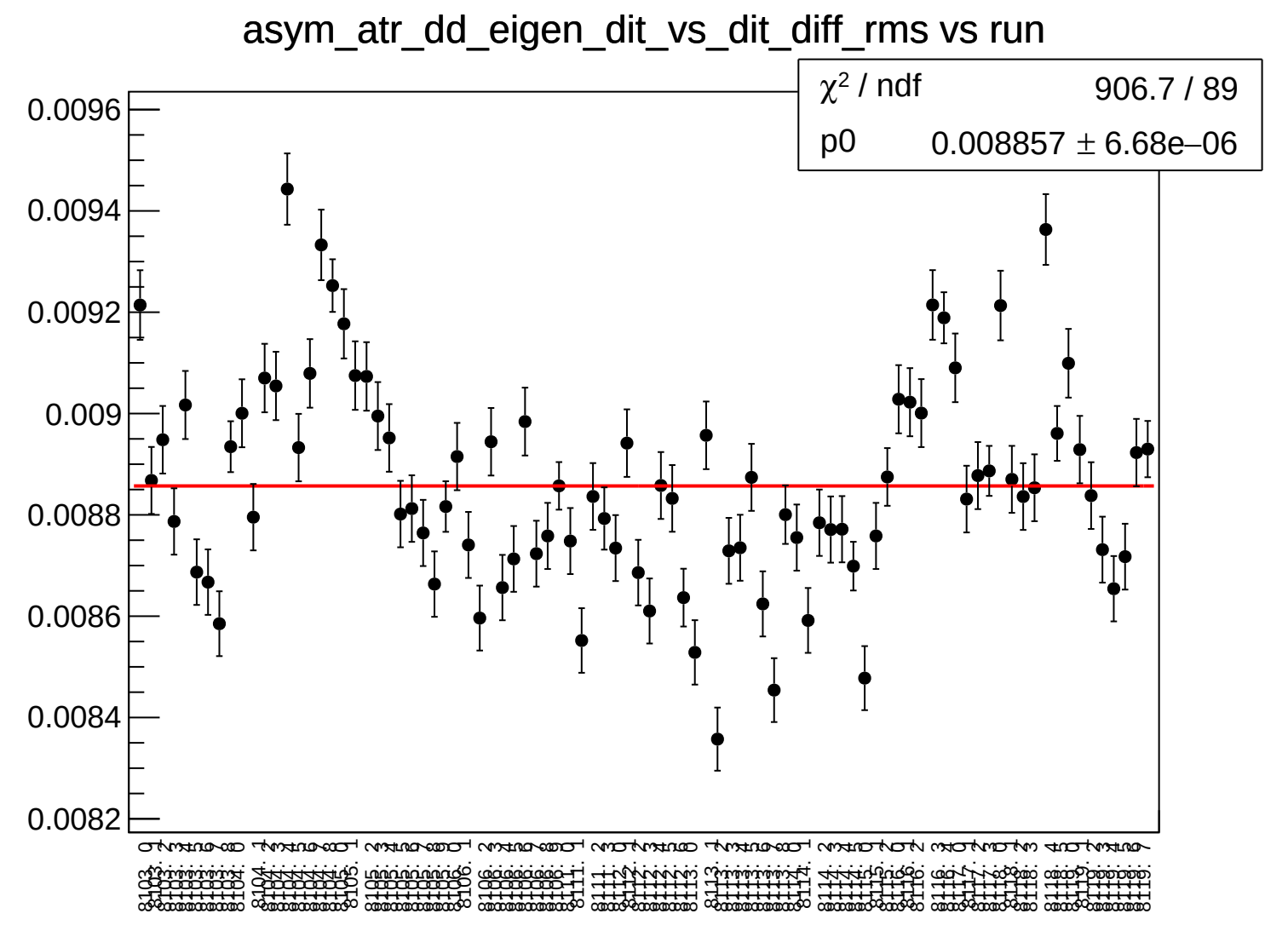

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.848e+04 / 89
p0 154.1 ± 0.1178
280
260
240
220
200
180
160
140
120
100


asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.58 / 89
p0 −0.364 ± 0.1666
pull
Entries 90
Mean 134
Std Dev 0

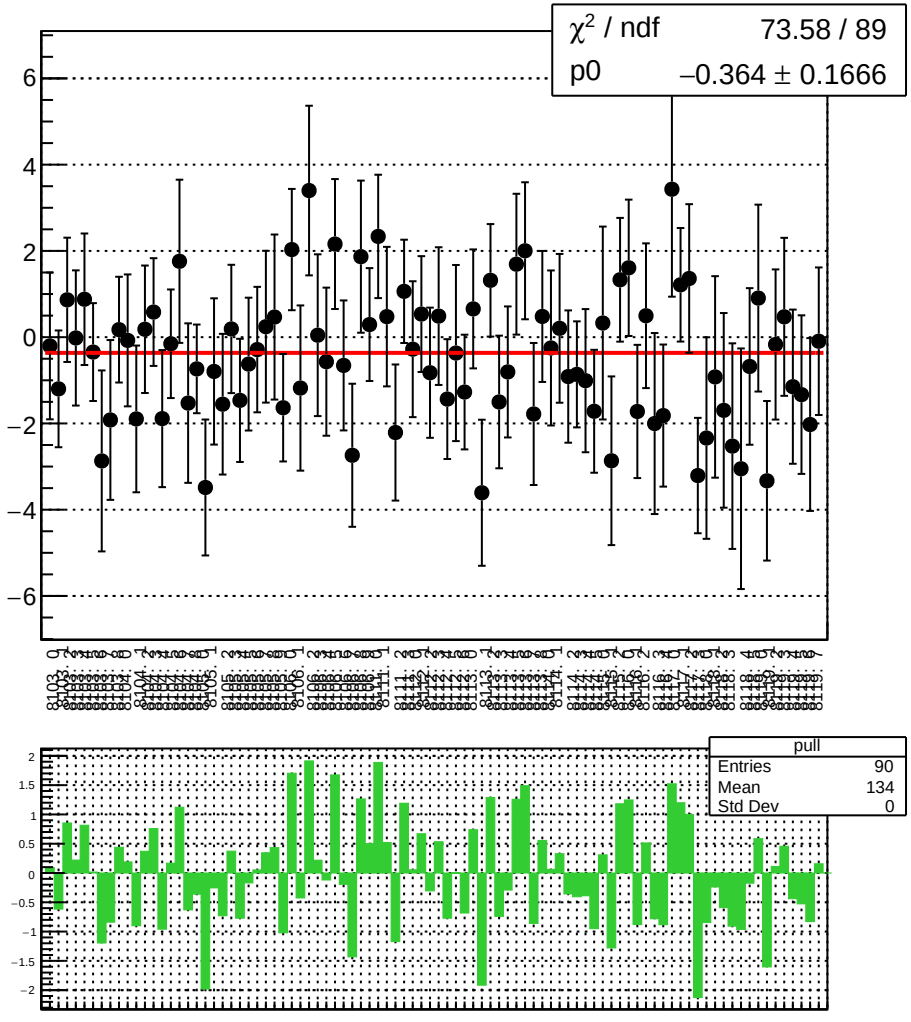

pull1D
Entries 90
Mean −0.02335
Std Dev 0.9039

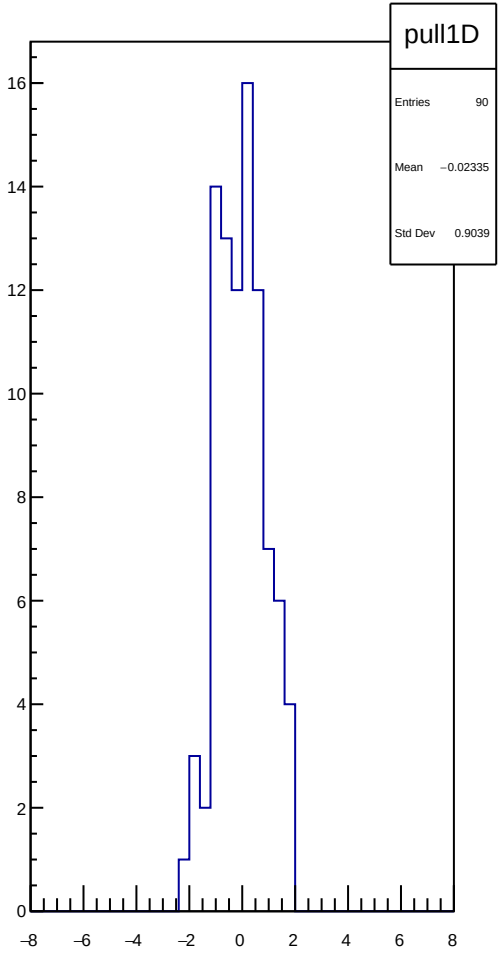

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.848e+04 / 89
p0 154.1 ± 0.1178
280
260
240
220
200
180
160
140
120
100

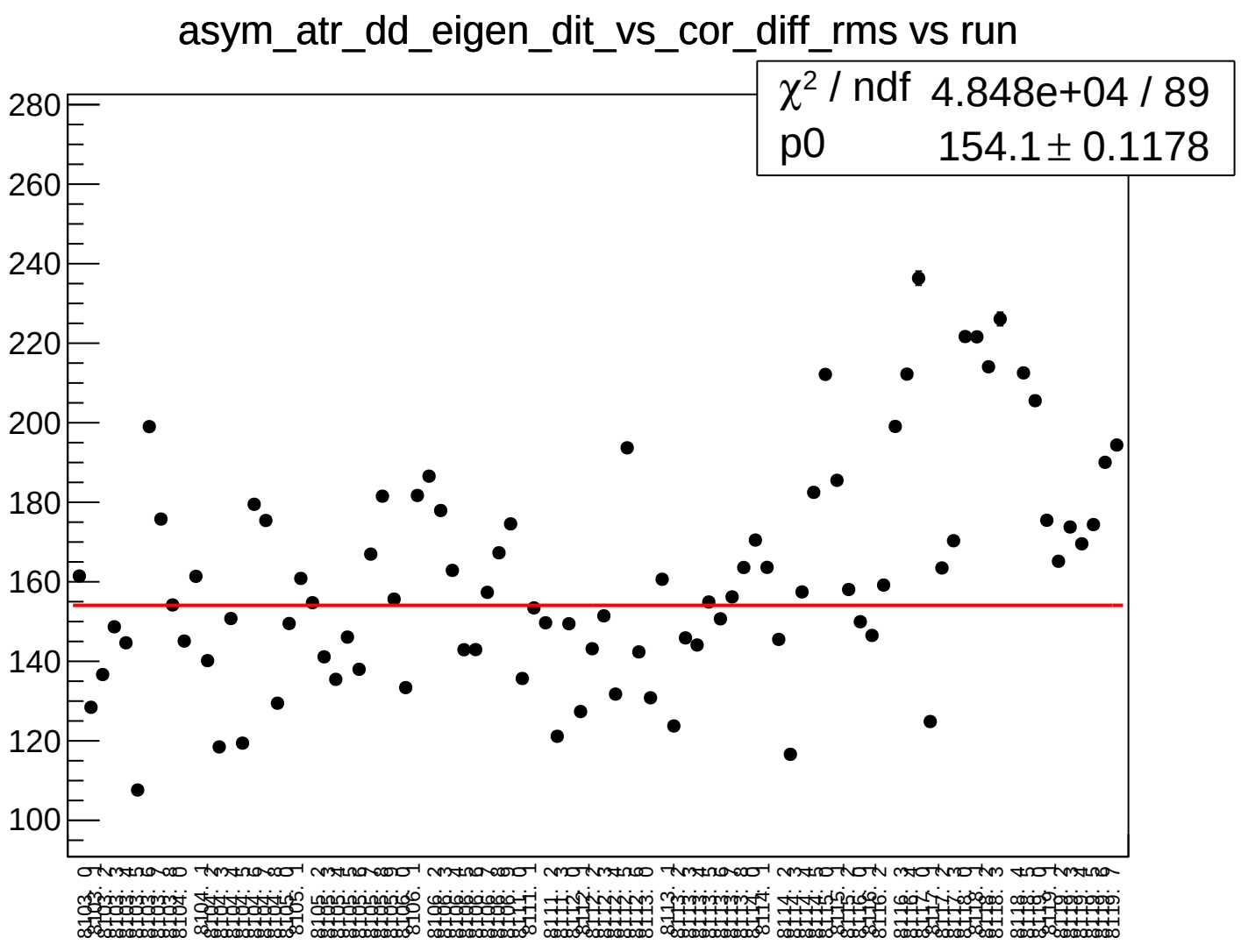

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.1 / 89
p0 1.392e−05 ± 9.448e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 90
Mean 1806
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004624
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

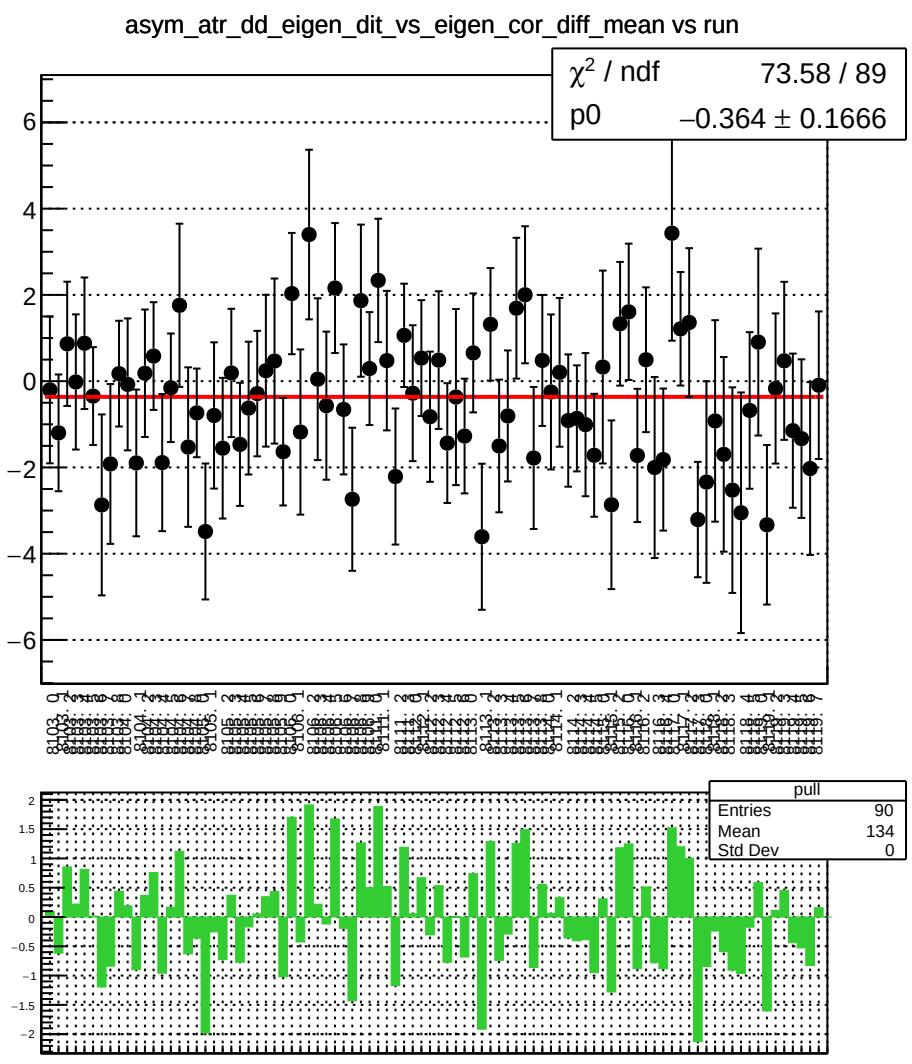

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 906.7 / 89
p0 0.008857 ± 6.68e−06
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082

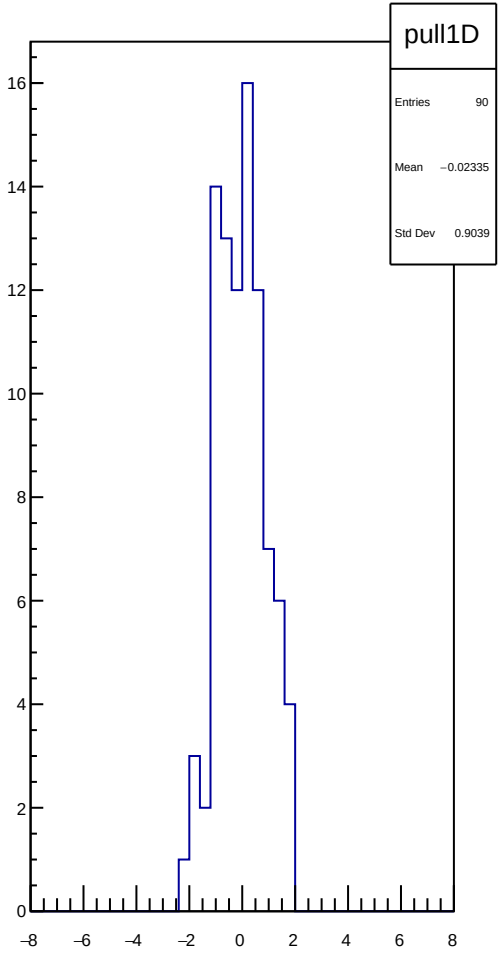
asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run

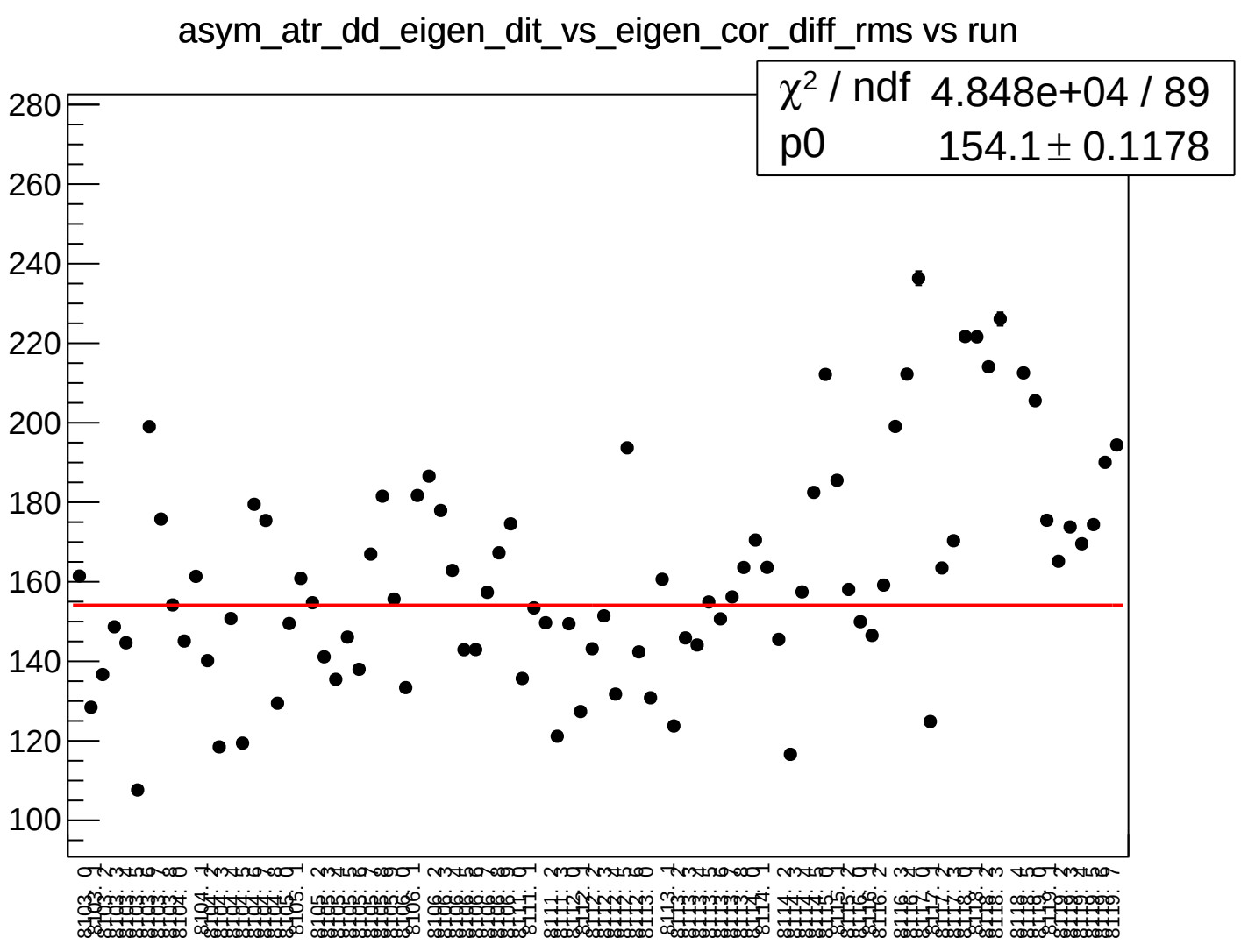


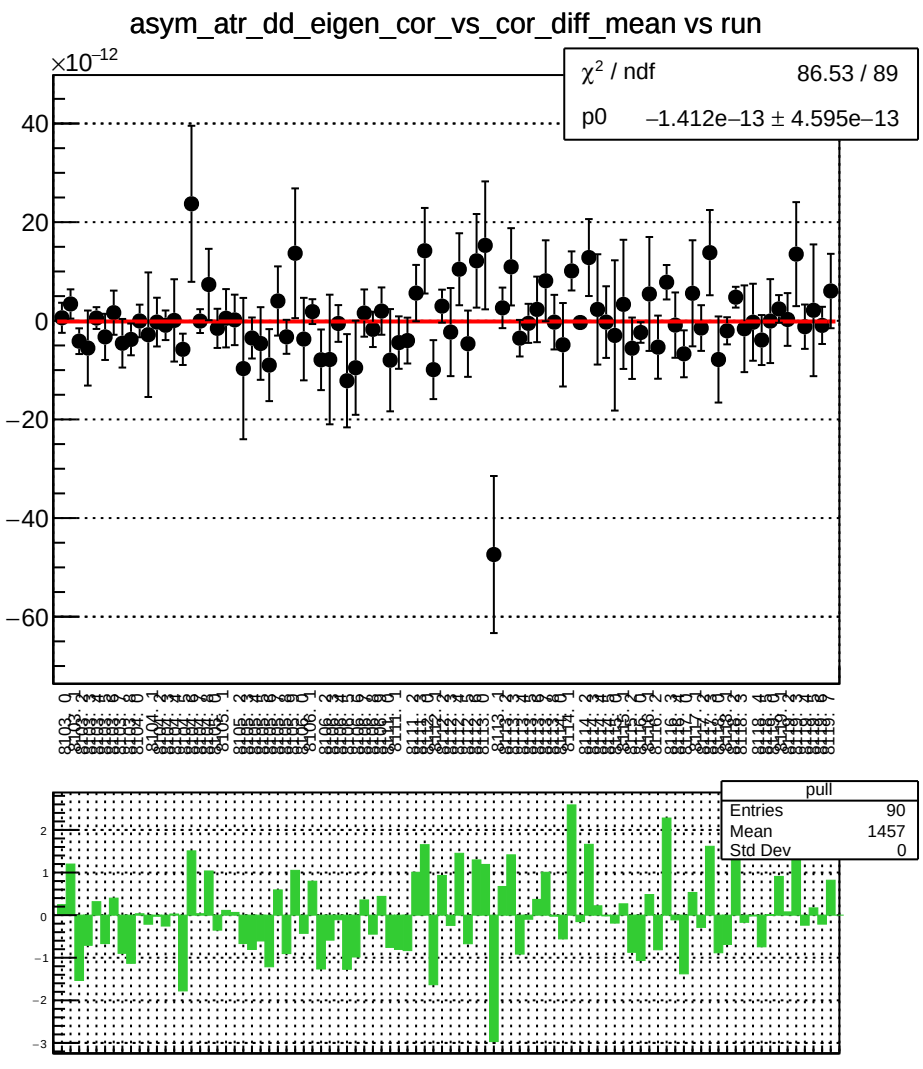


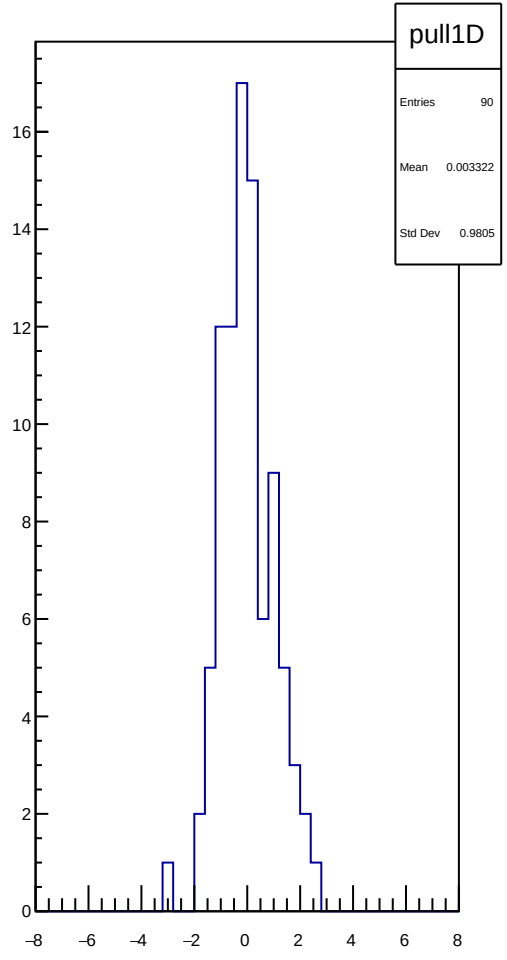

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.848e+04 / 89
p0 154.1 ± 0.1178
280
260
240
220
200
180
160
140
120
100

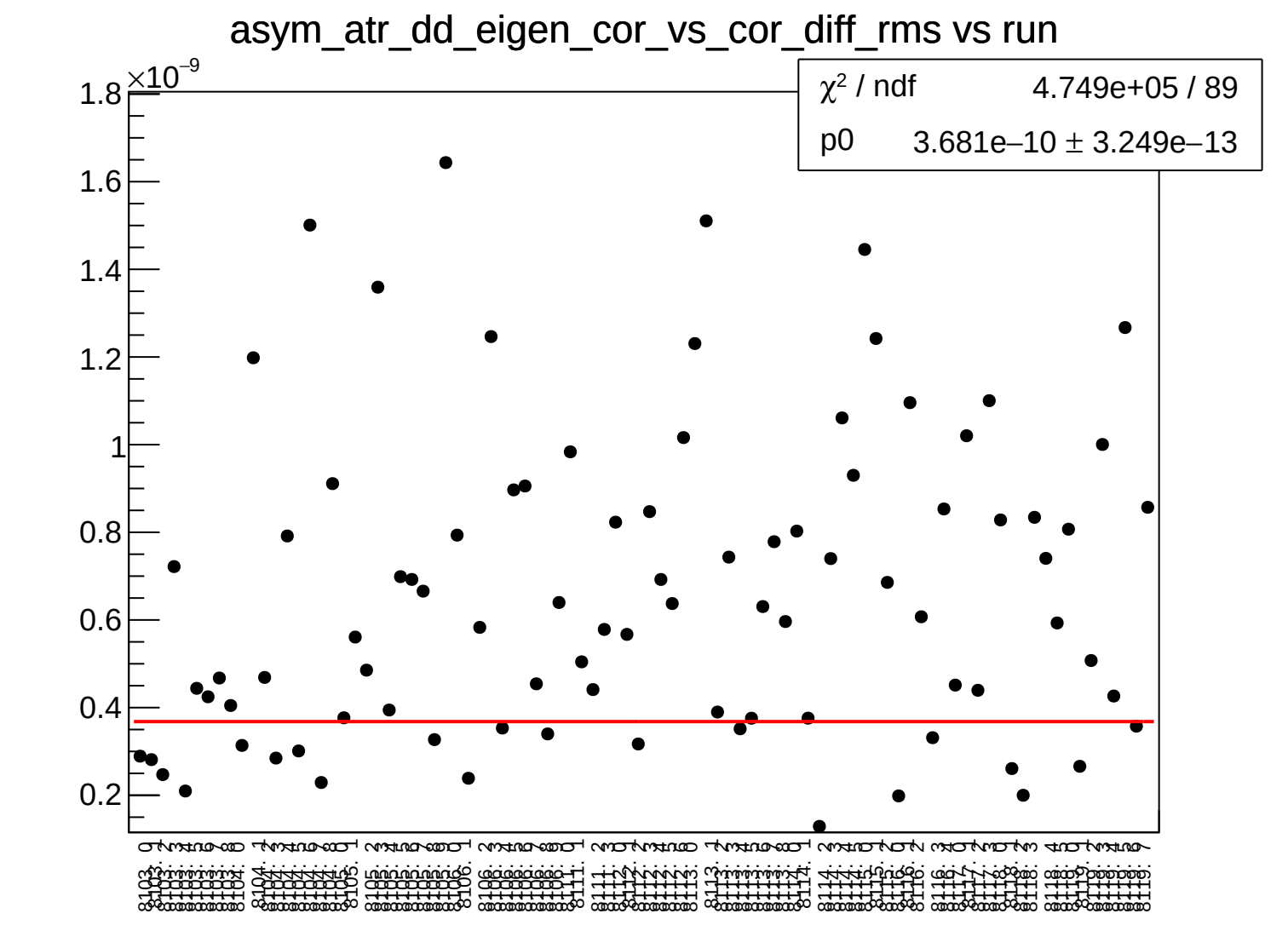

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.58 / 89
p0 −0.364 ± 0.1666
pull
Entries 90
Mean 134
Std Dev 0

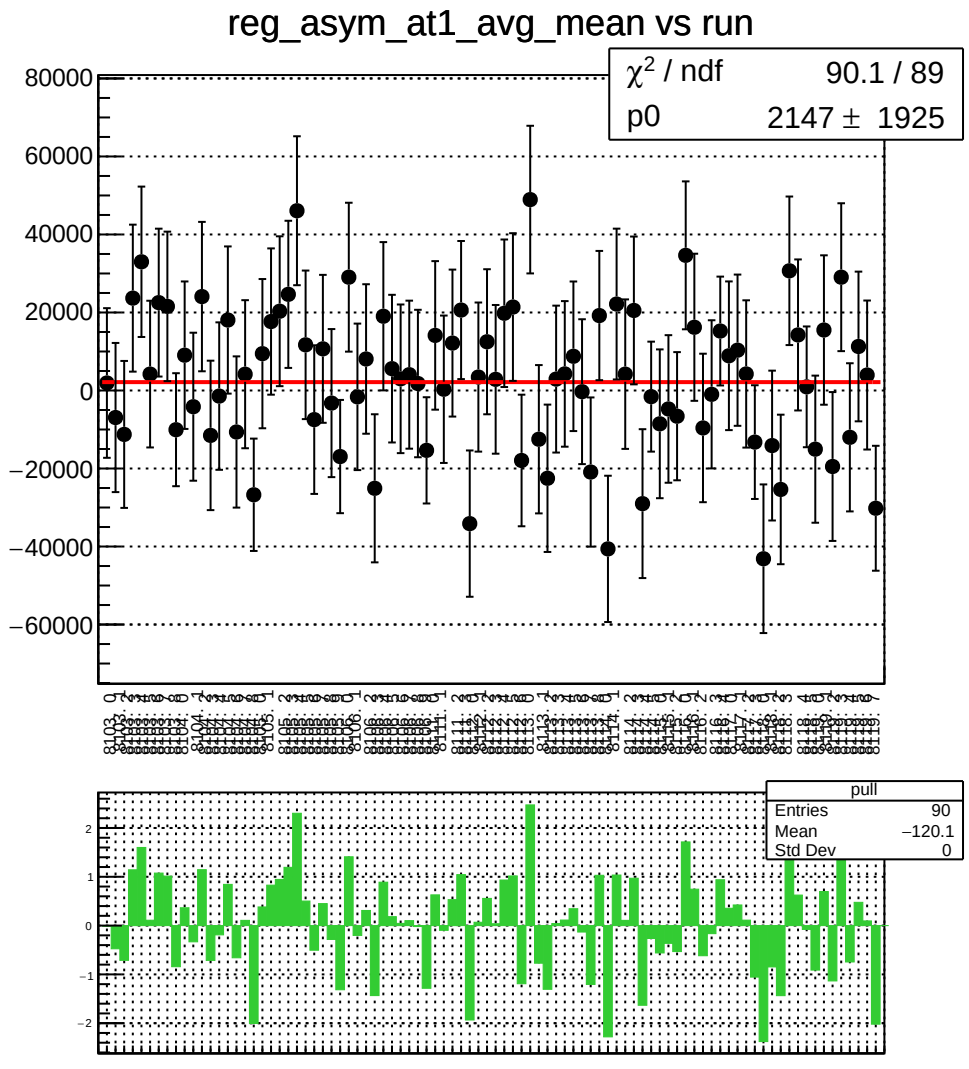

pull1D
Entries 90
Mean −0.02335
Std Dev 0.9039

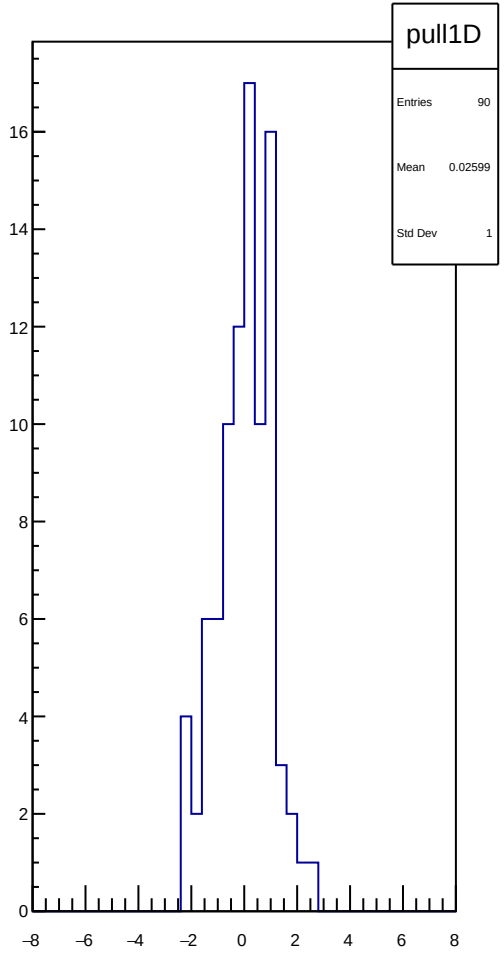

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.848e+04 / 89
p0 154.1 ± 0.1178
280
260
240
220
200
180
160
140
120
100

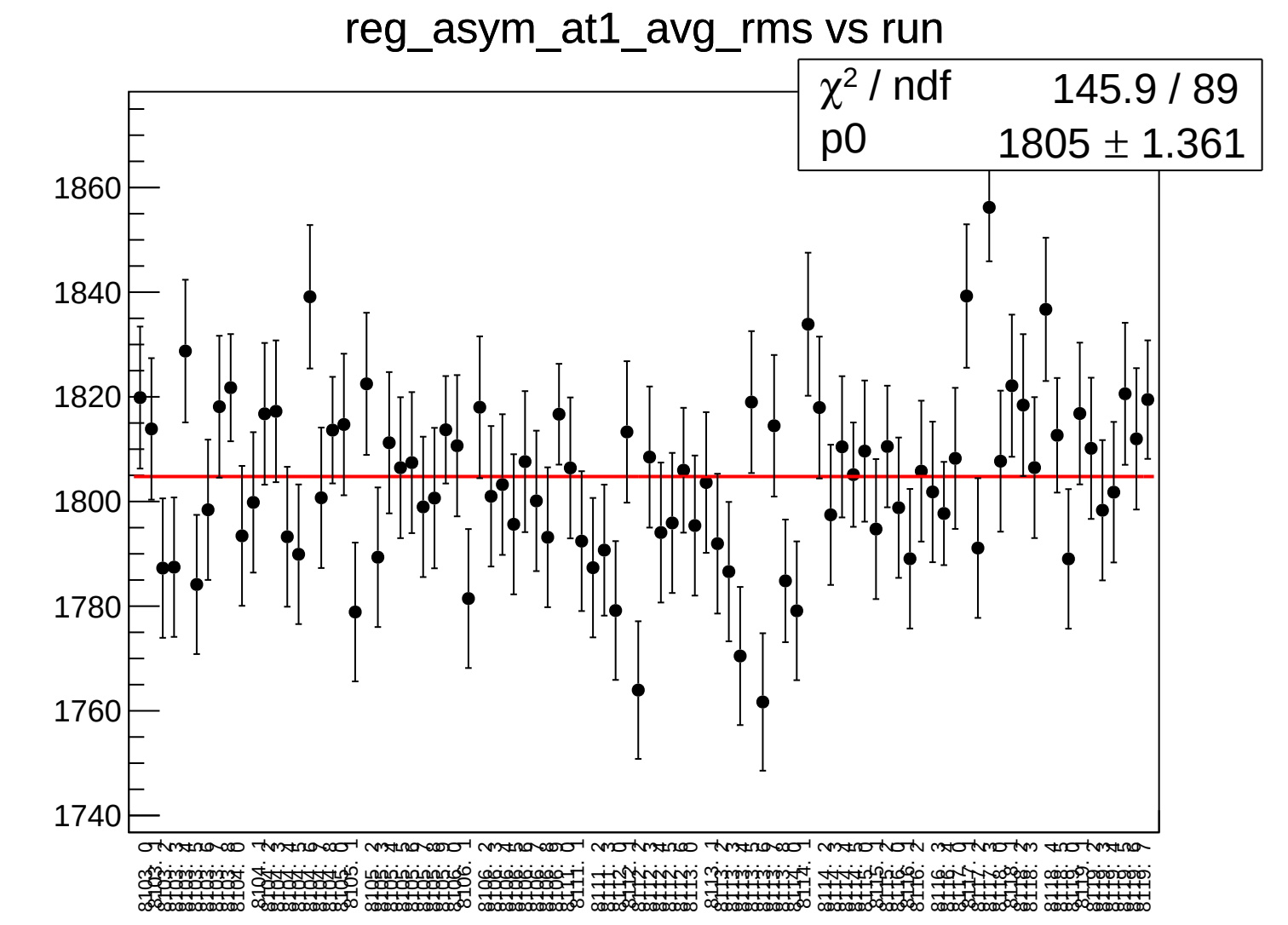

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.53 / 89
p0 −1.412e−13 ± 4.595e−13
40
20
0
−20
−40
−60
pull
Entries 90
Mean 1457
Std Dev 0
2
1
0
−1
−2
−3

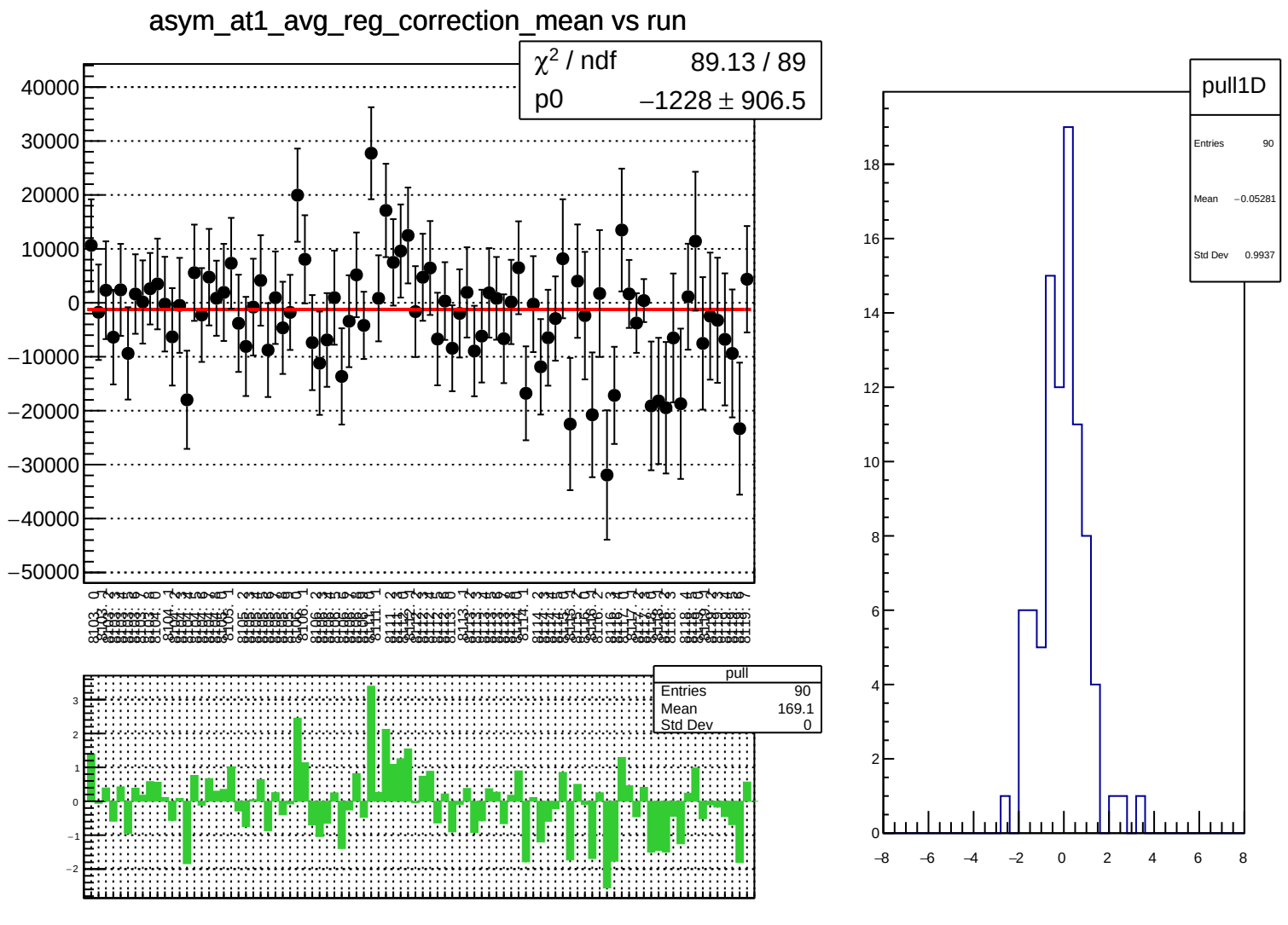

pull1D
Entries 90
Mean 0.003322
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

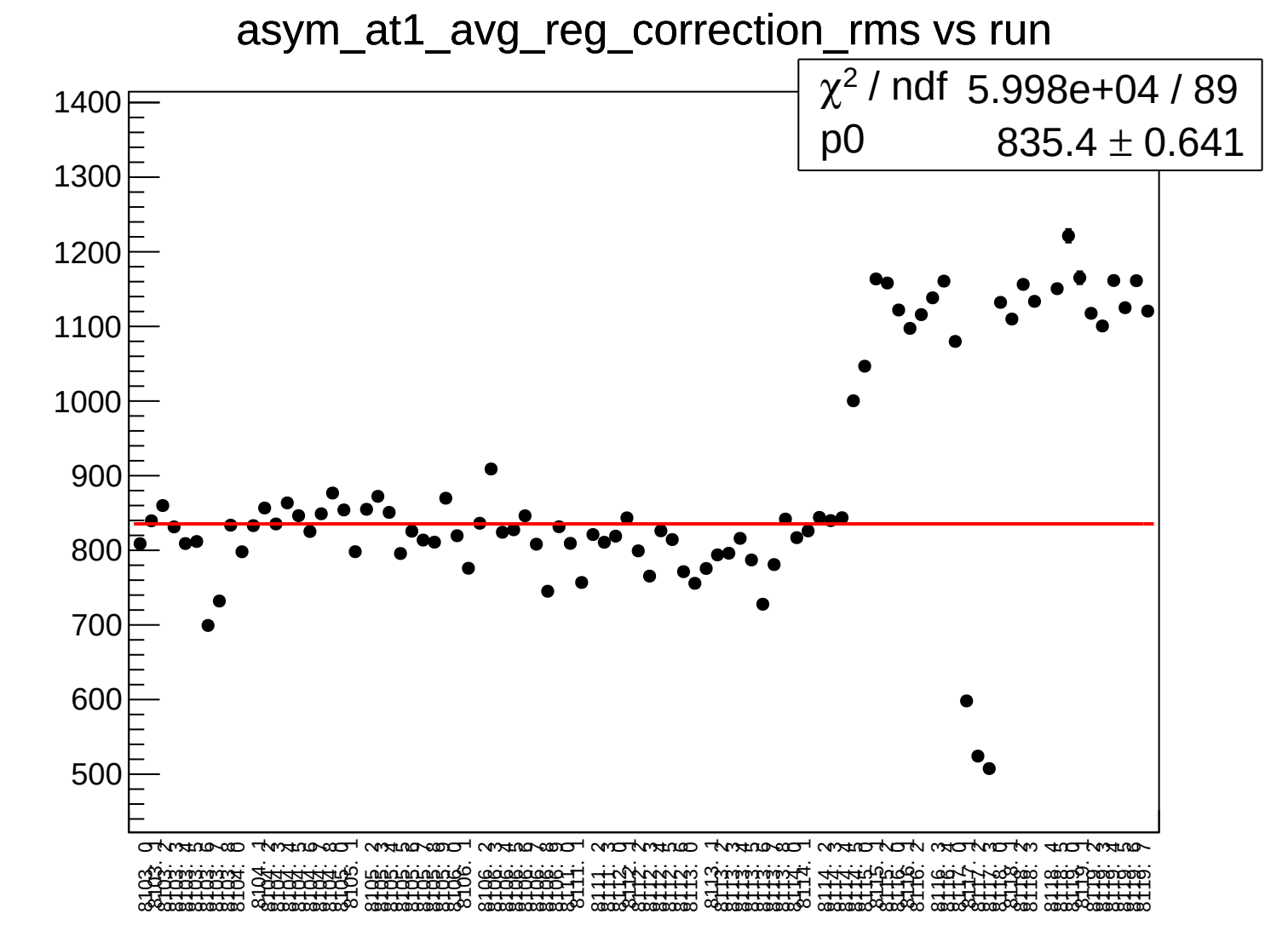

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.749e+05 / 89
p0 3.681e−10 ± 3.249e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

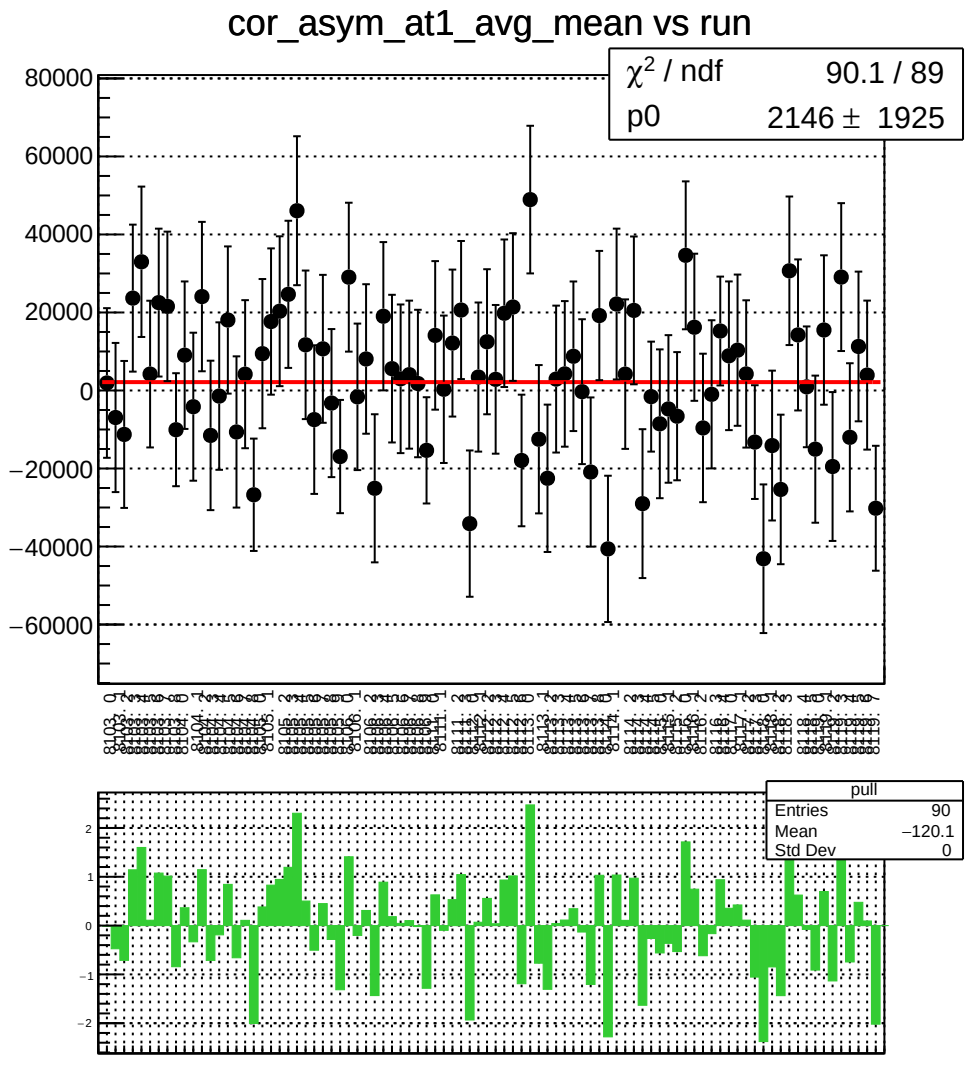

reg_asym_at1_avg_mean vs run
χ² / ndf 90.1 / 89
p0 2147 ± 1925
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −120.1
Std Dev 0
2
1
0
−1
−2

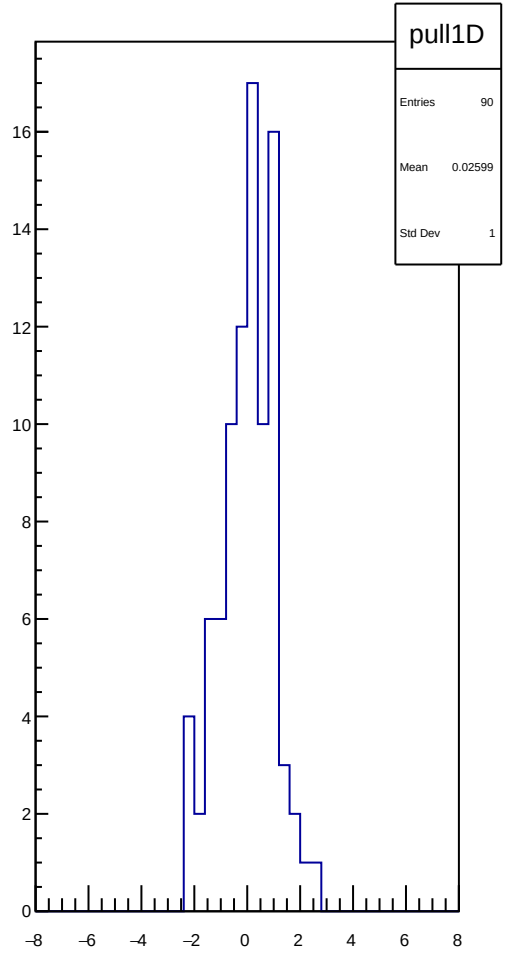

pull1D
Entries 90
Mean 0.02599
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

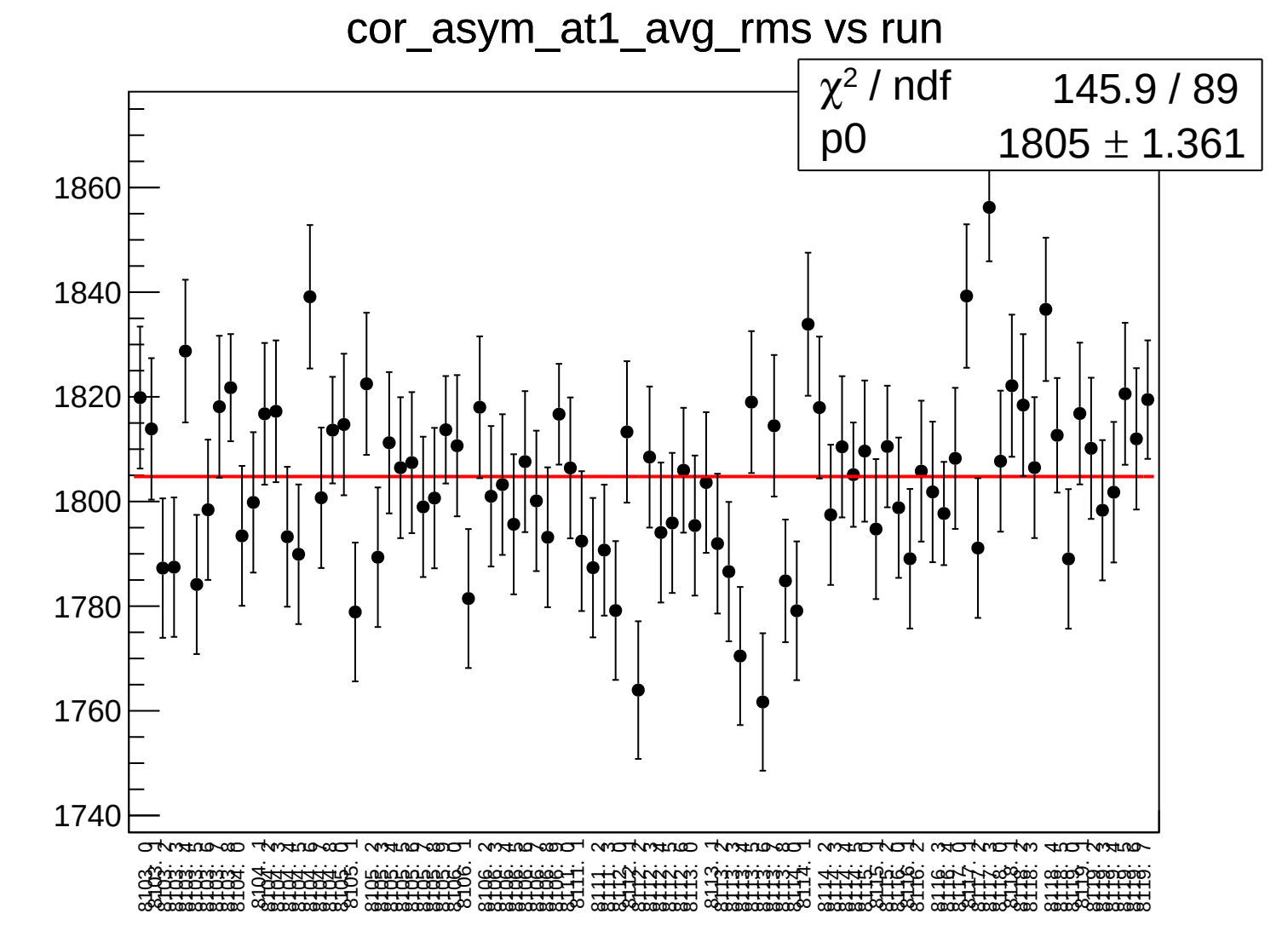

reg_asym_at1_avg_rms vs run
χ^2 / ndf 145.9 / 89
p0 1805 ± 1.361
1860
1840
1820
1800
1780
1760
1740

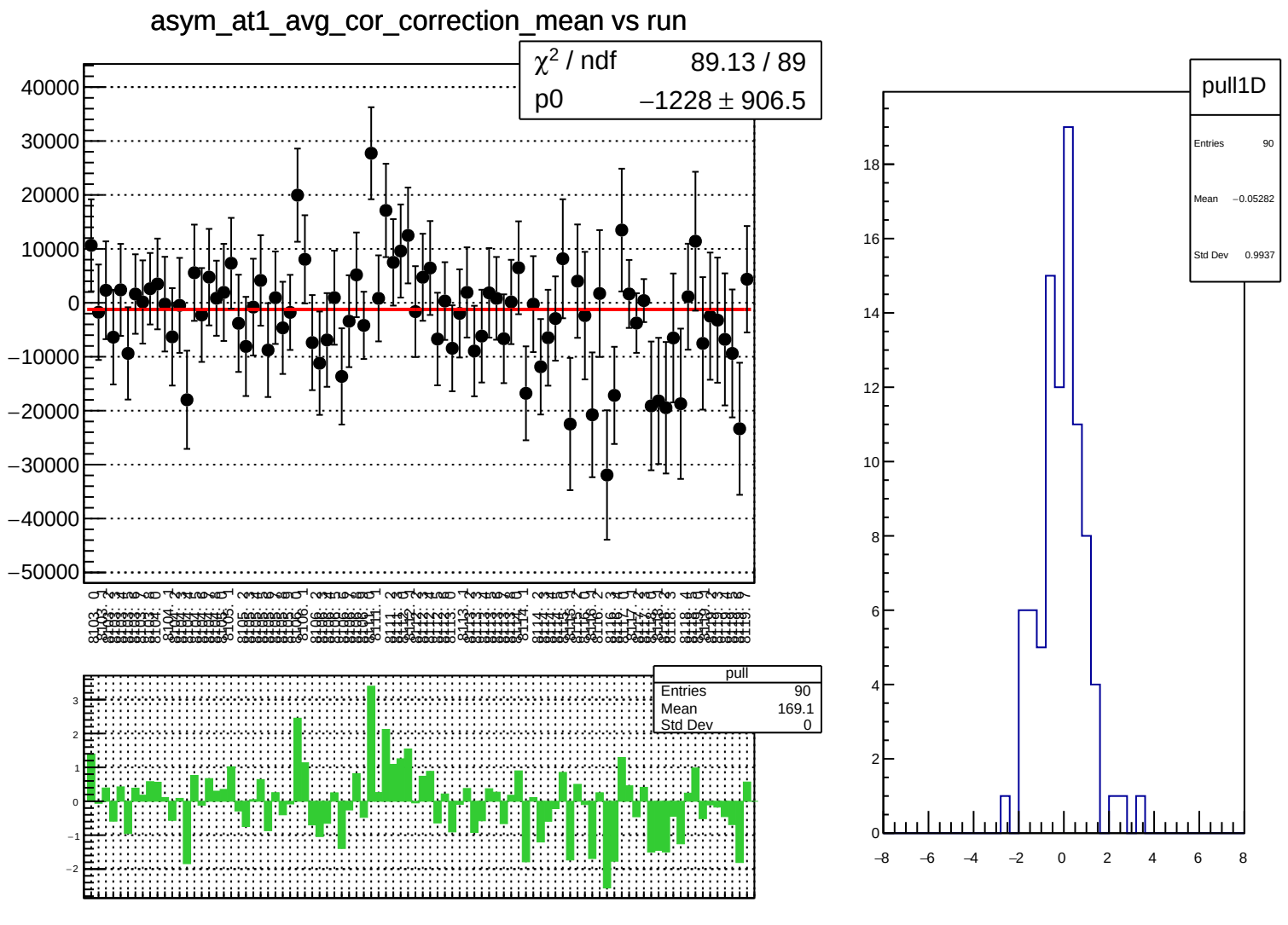

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 89.13 / 89
p0 −1228 ± 906.5
pull
Entries 90
Mean 169.1
Std Dev 0
pull1D
Entries 90
Mean −0.05281
Std Dev 0.9937

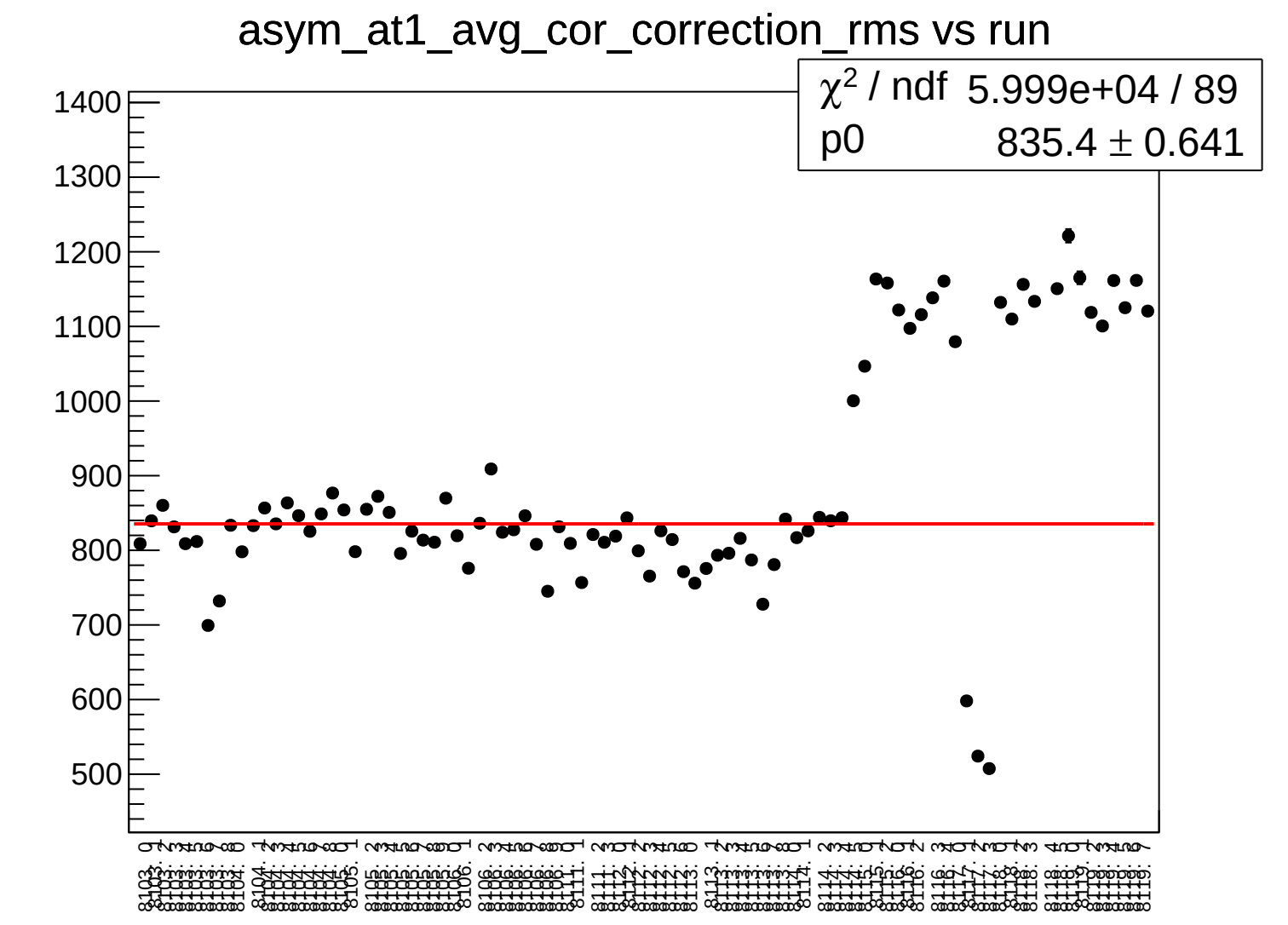

asym_at1_avg_reg_correction_rms vs run
χ^2 / ndf 5.998e+04 / 89
p0 835.4 ± 0.641
1400
1300
1200
1100
1000
900
800
700
600
500

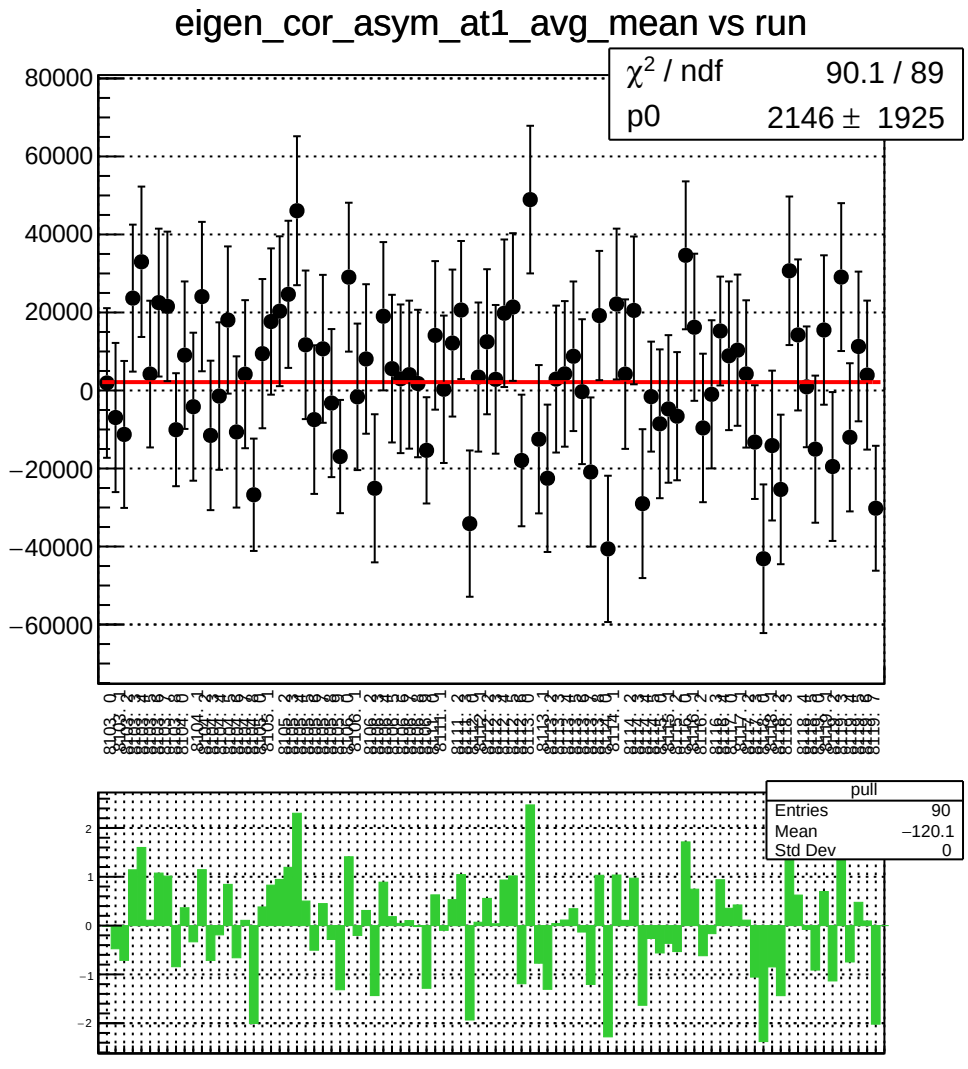

cor_asym_at1_avg_mean vs run
χ² / ndf 90.1 / 89
p0 2146 ± 1925
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −120.1
Std Dev 0
2
1
0
−1
−2

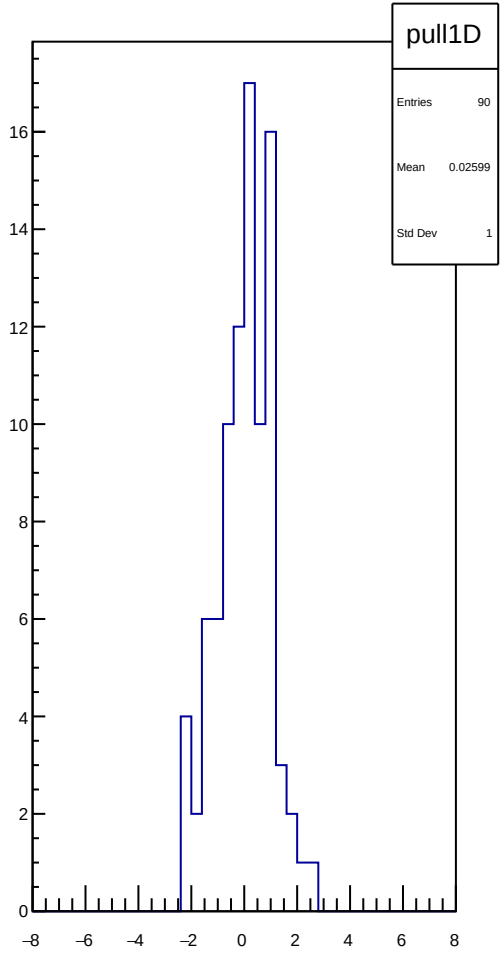

pull1D
Entries 90
Mean 0.02599
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

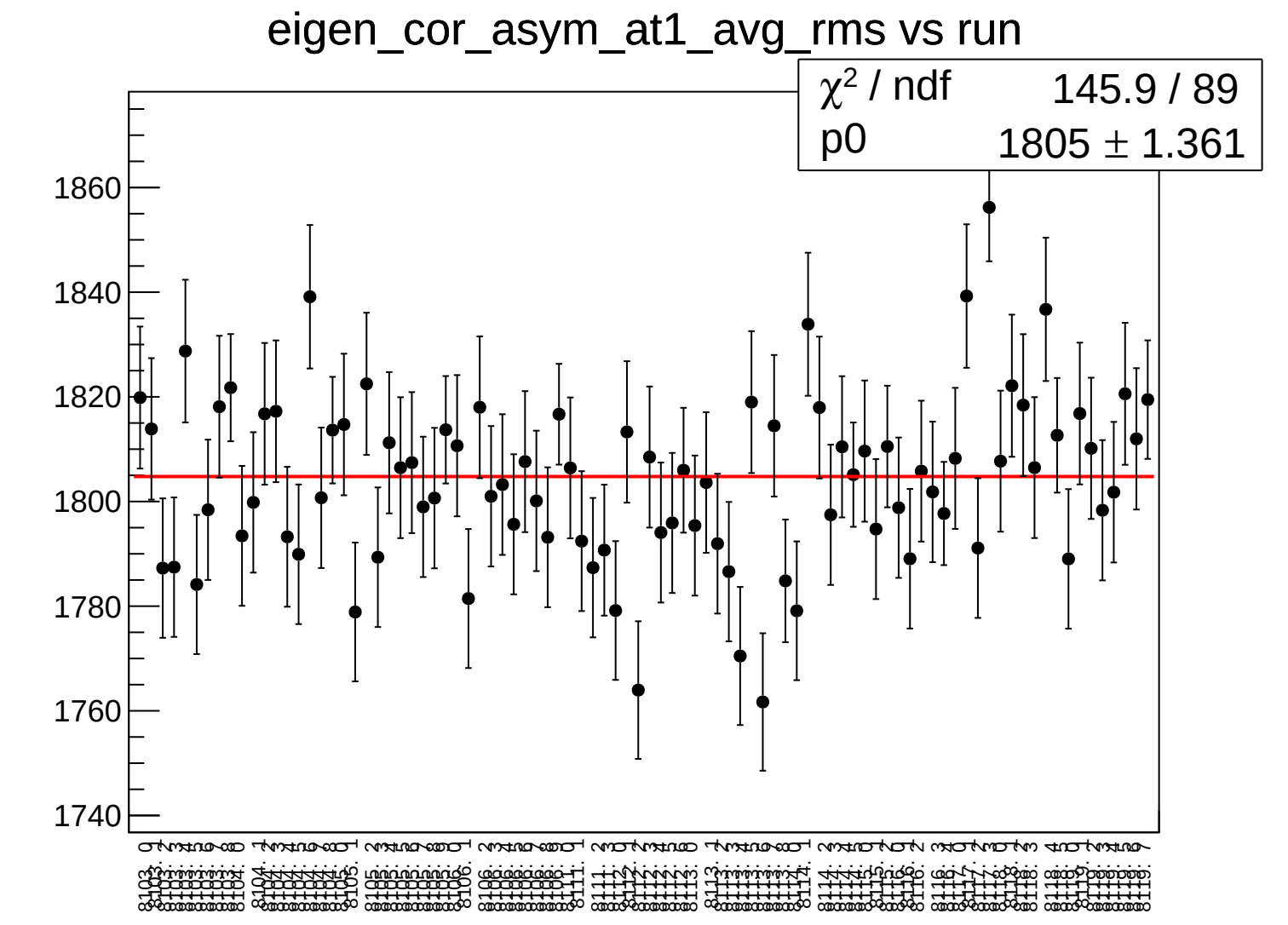

cor_asym_at1_avg_rms vs run
χ^2 / ndf 145.9 / 89
p0 1805 ± 1.361
1860
1840
1820
1800
1780
1760
1740

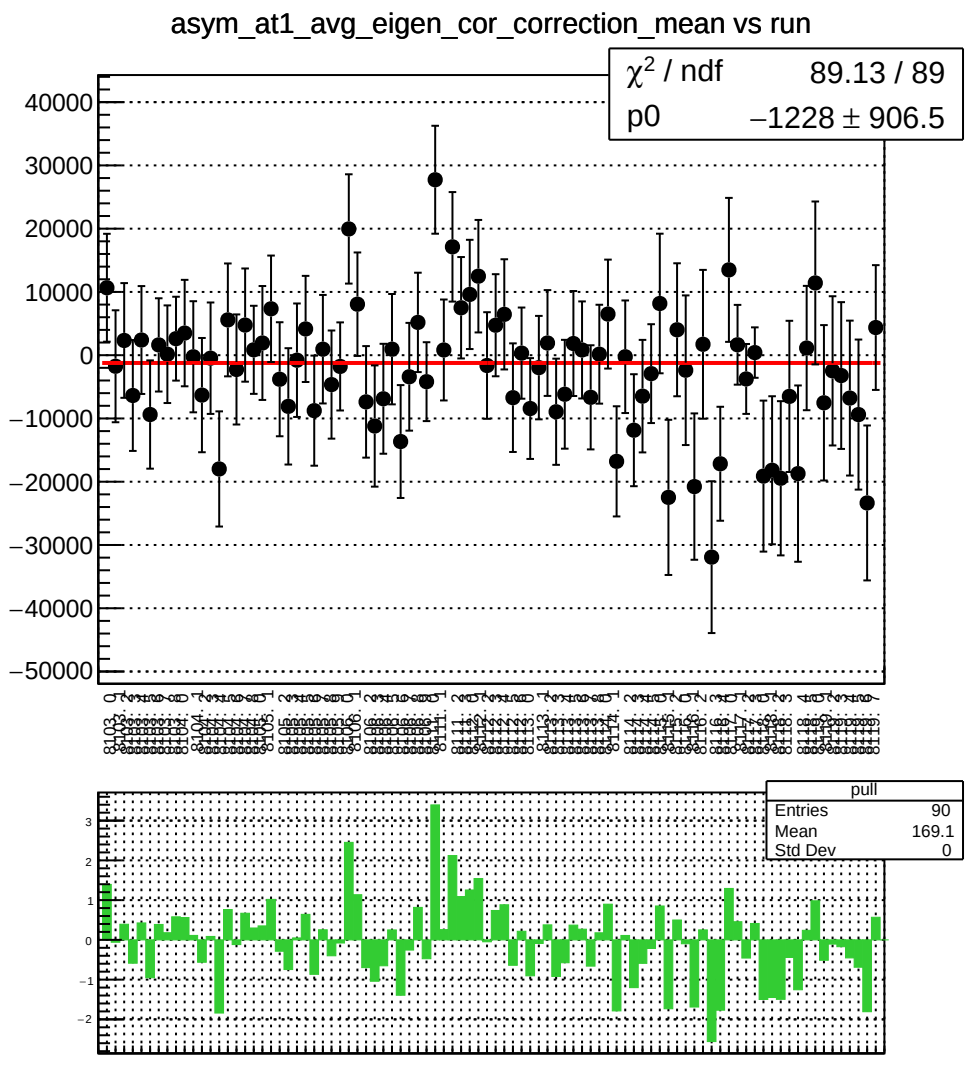

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 89.13 / 89
p0 −1228 ± 906.5
pull
Entries 90
Mean 169.1
Std Dev 0
pull1D
Entries 90
Mean −0.05282
Std Dev 0.9937

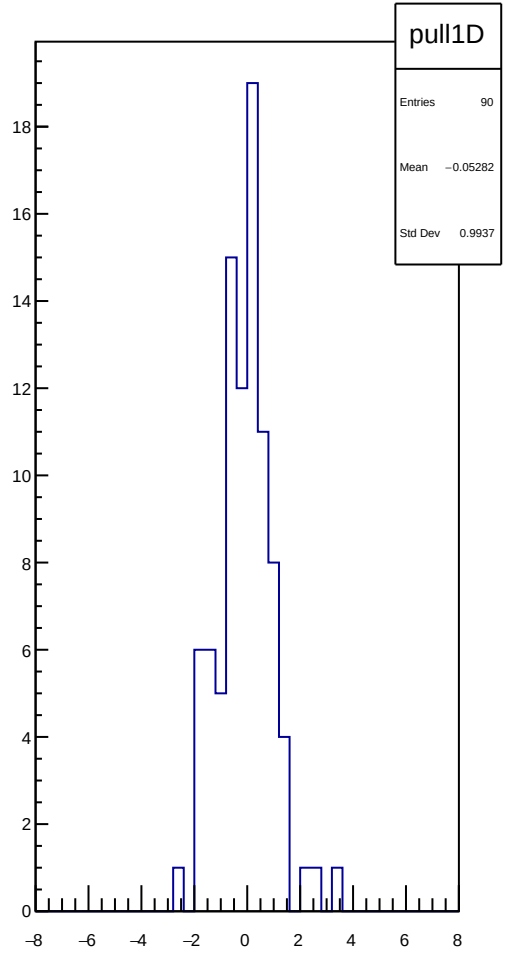

asym_at1_avg_cor_correction_rms vs run
χ^2 / ndf 5.999e+04 / 89
p0 835.4 ± 0.641
1400
1300
1200
1100
1000
900
800
700
600
500

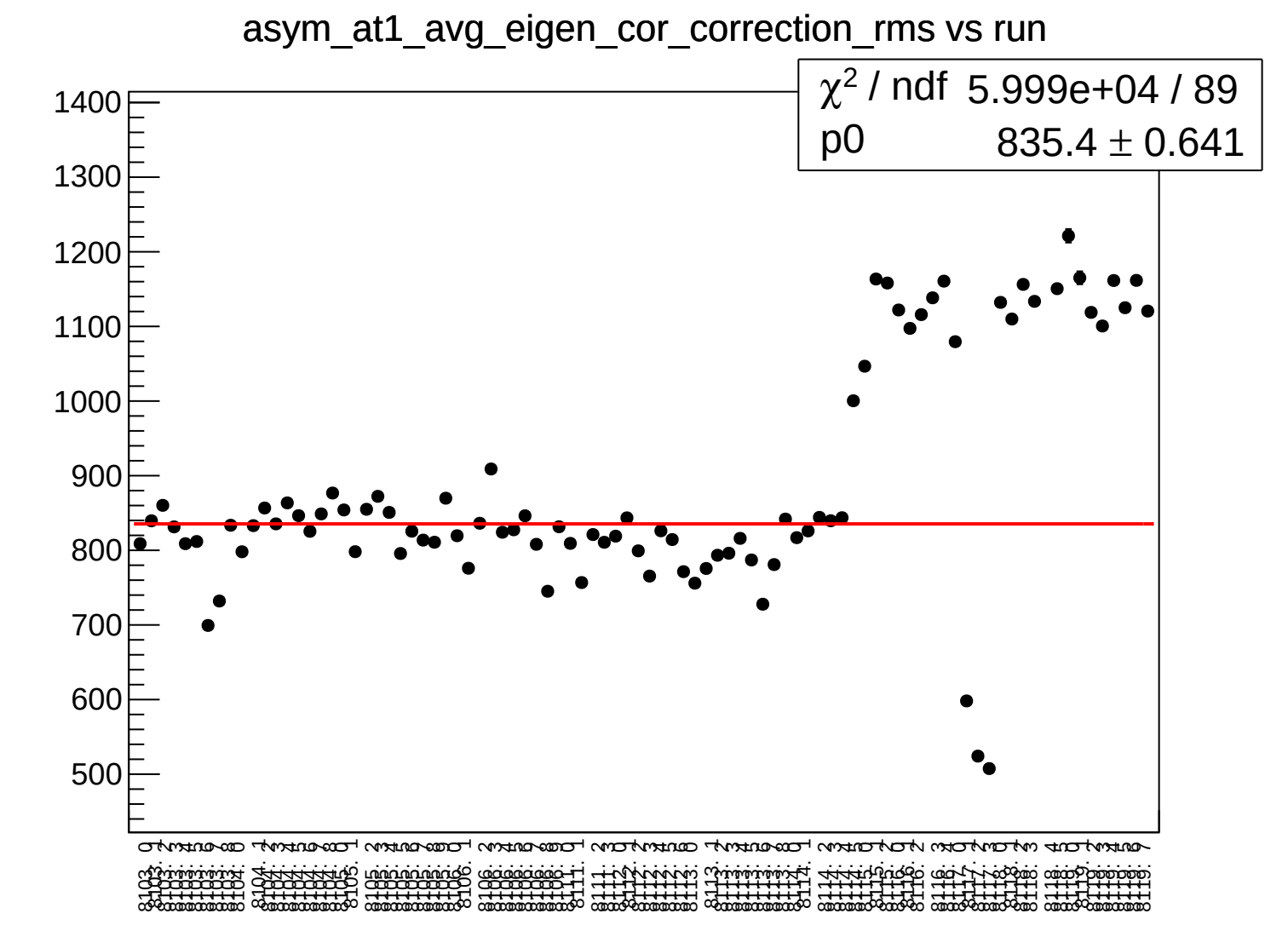

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 90.1 / 89
p0 2146 ± 1925
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −120.1
Std Dev 0
2
1
0
−1
−2

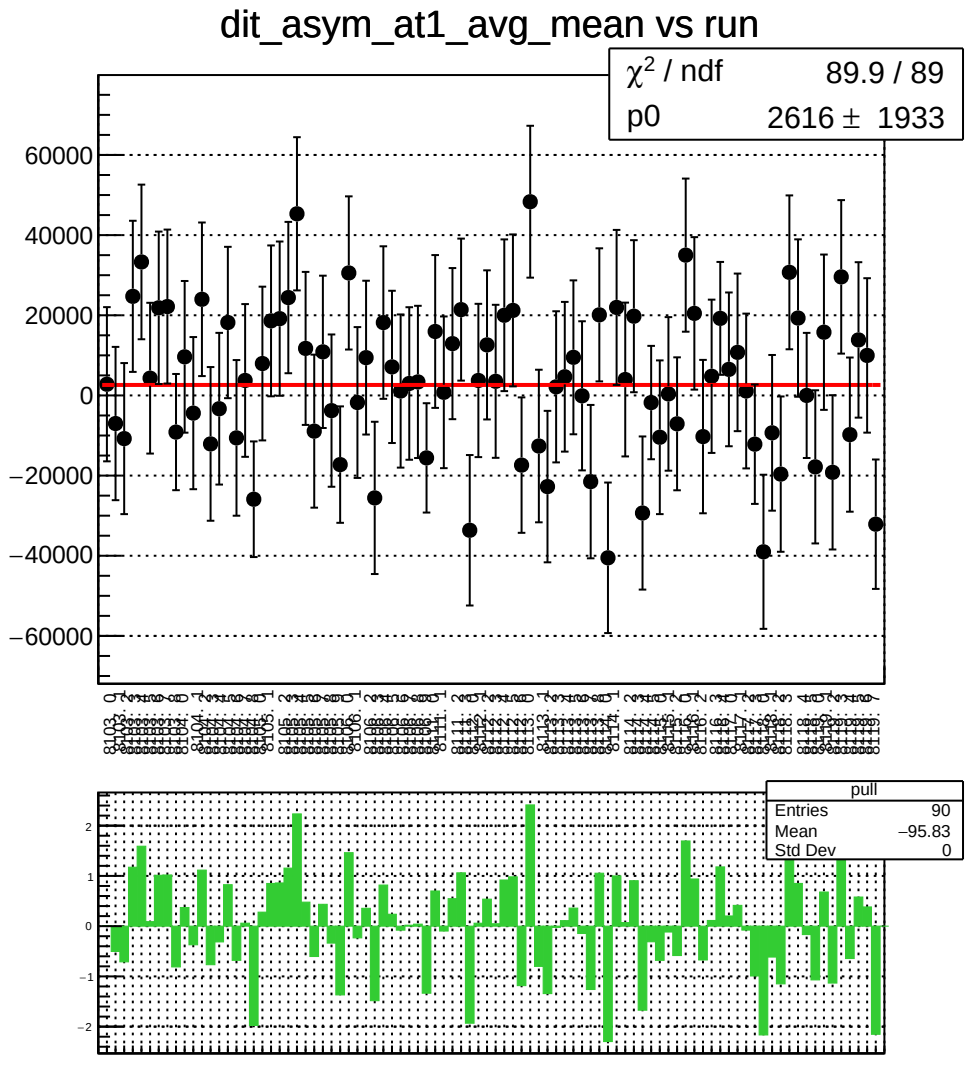

pull1D
Entries 90
Mean 0.02599
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

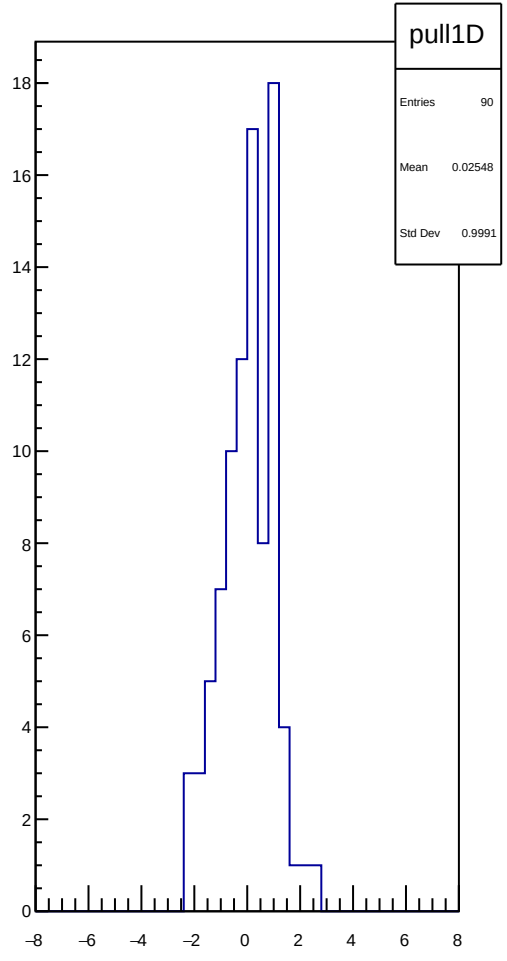

eigen_cor_asym_at1_avg_rms vs run
χ^2 / ndf 145.9 / 89
p0 1805 ± 1.361
1860
1840
1820
1800
1780
1760
1740

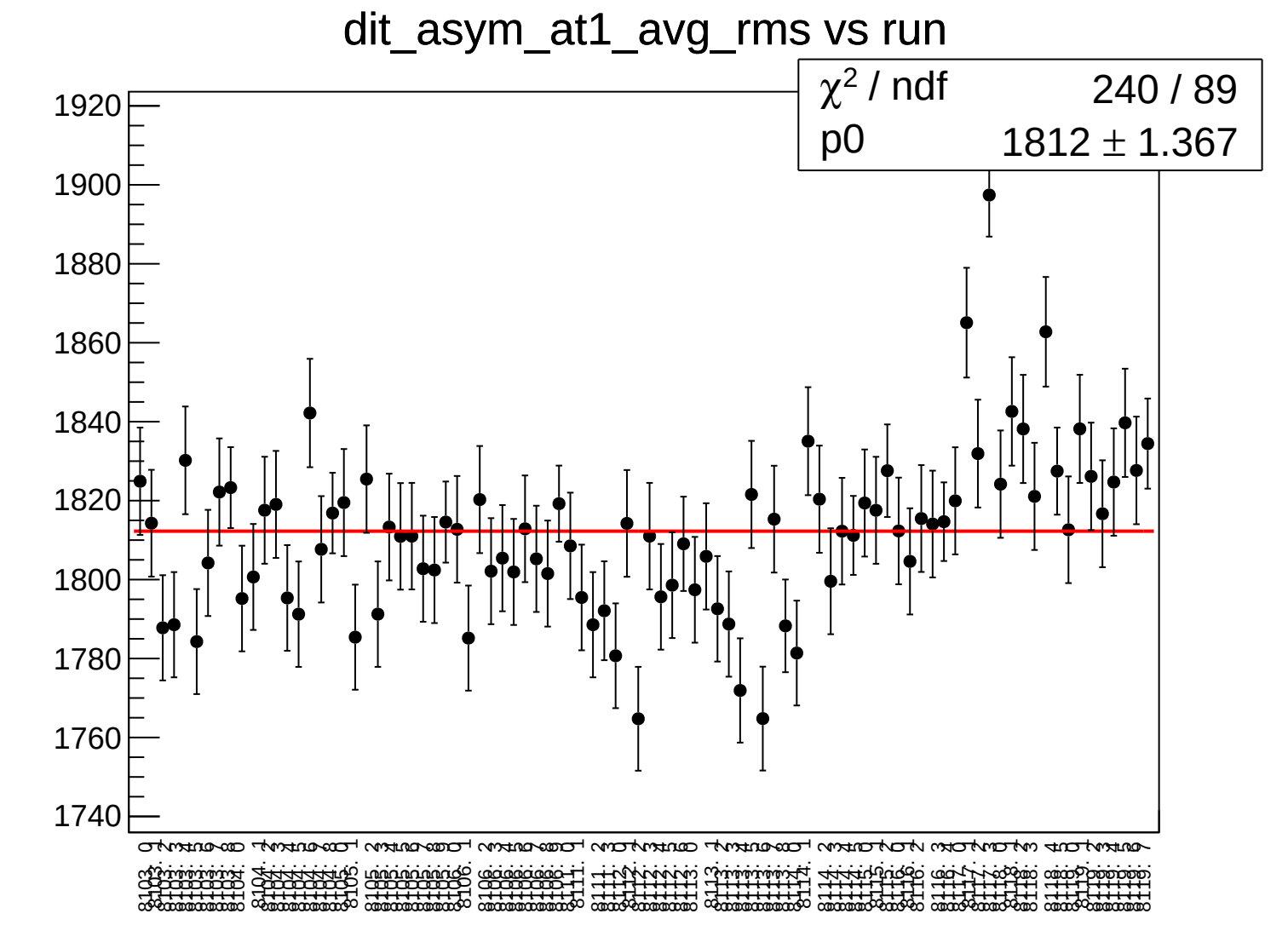

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.13 / 89
p0 −1228 ± 906.5
pull
Entries 90
Mean 169.1
Std Dev 0

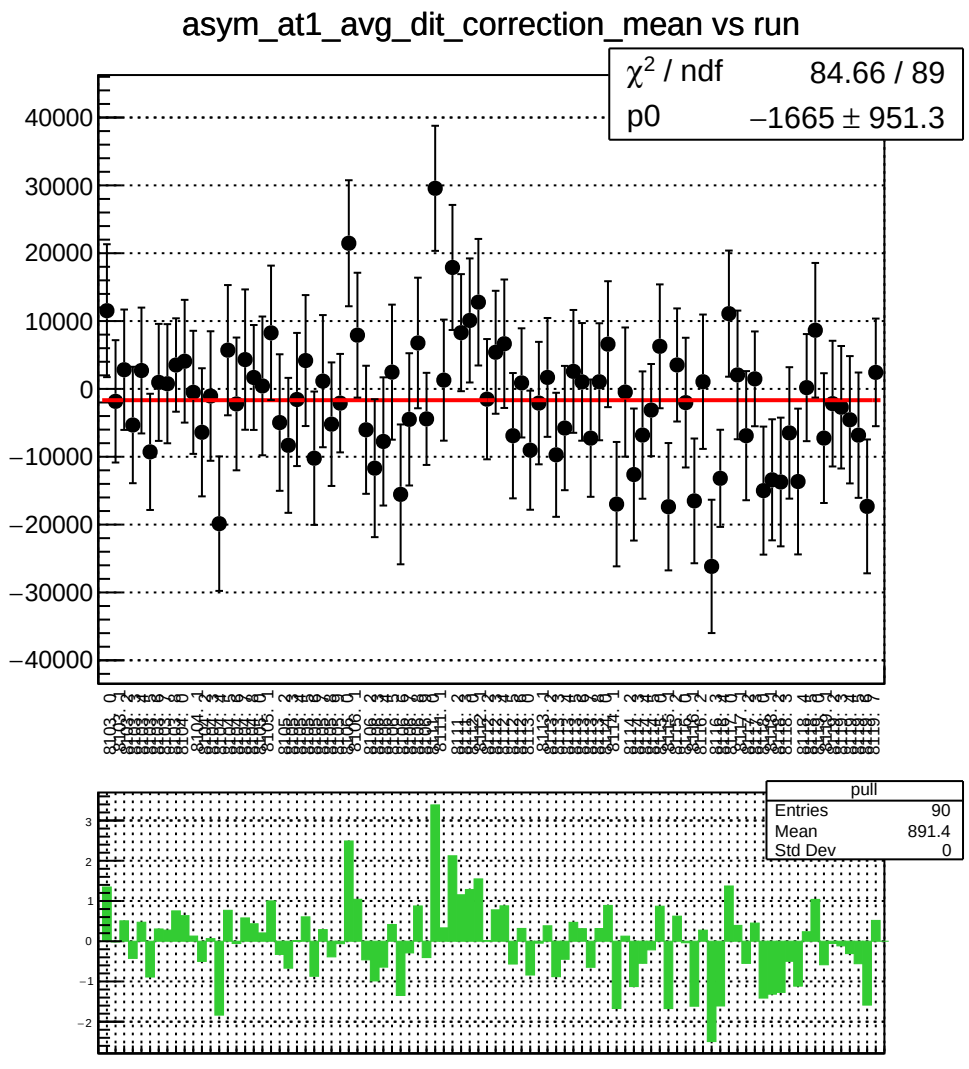

pull1D
Entries 90
Mean −0.05282
Std Dev 0.9937

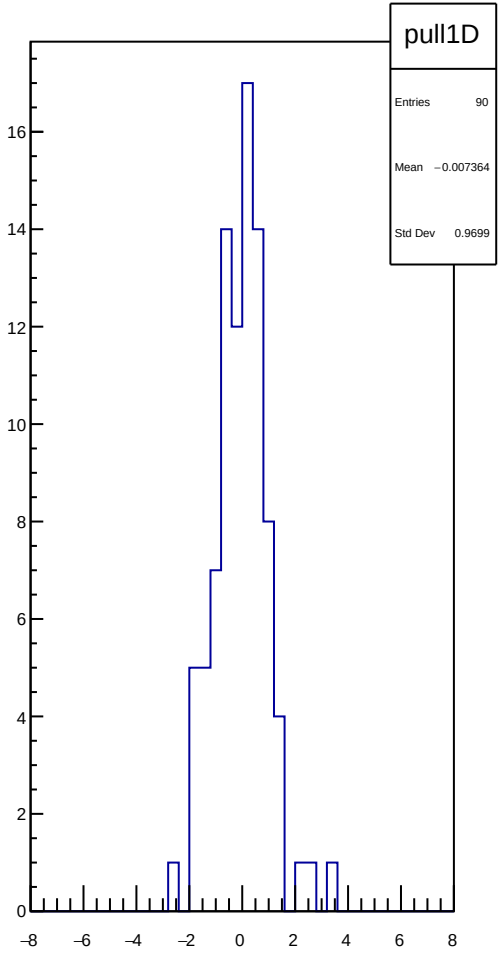

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.999e+04 / 89
p0 835.4 ± 0.641
1400
1300
1200
1100
1000
900
800
700
600
500

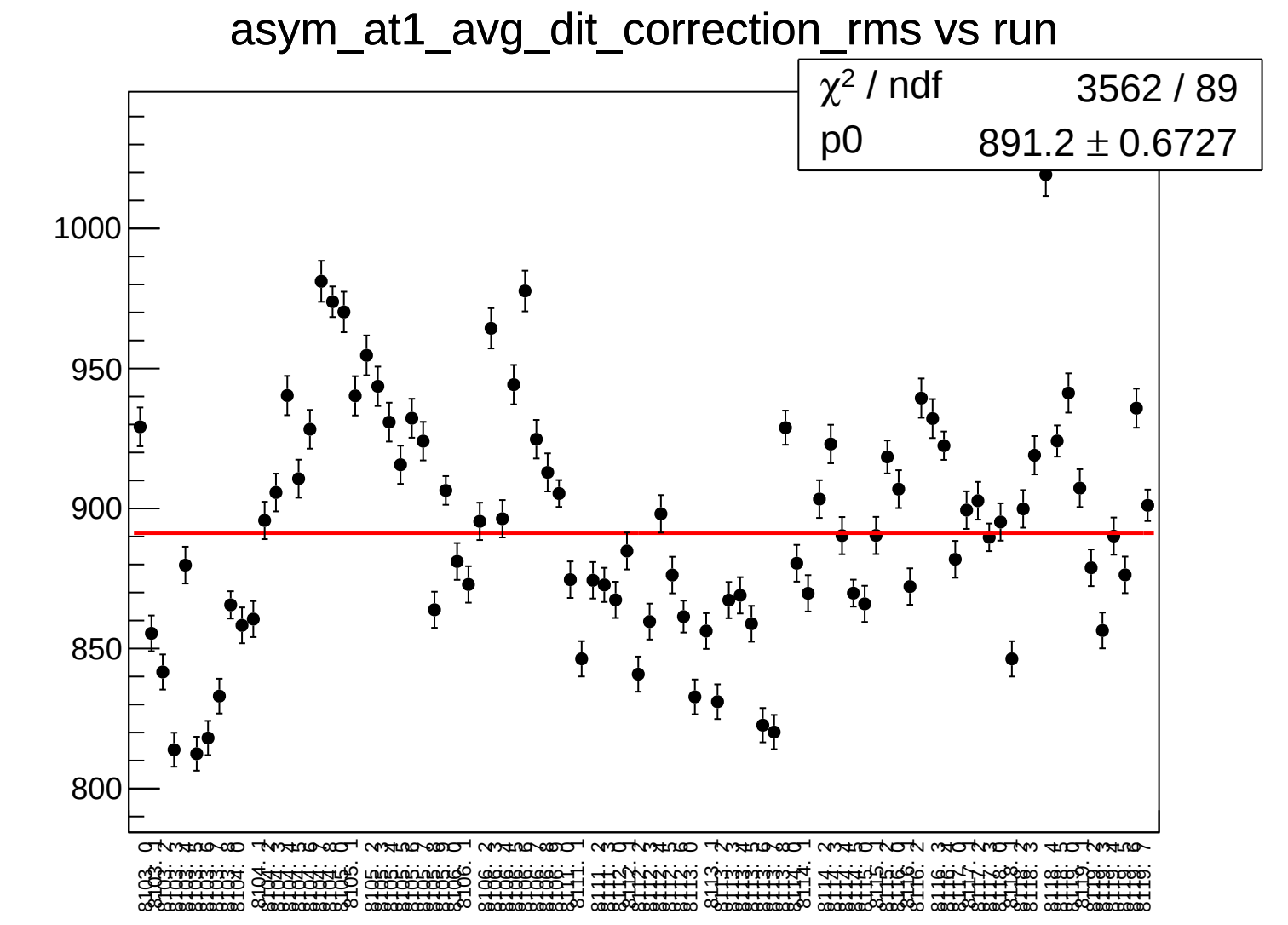

dit_asym_at1_avg_mean vs run
χ² / ndf 89.9 / 89
p0 2616 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −95.83
Std Dev 0
2
1
0
−1
−2

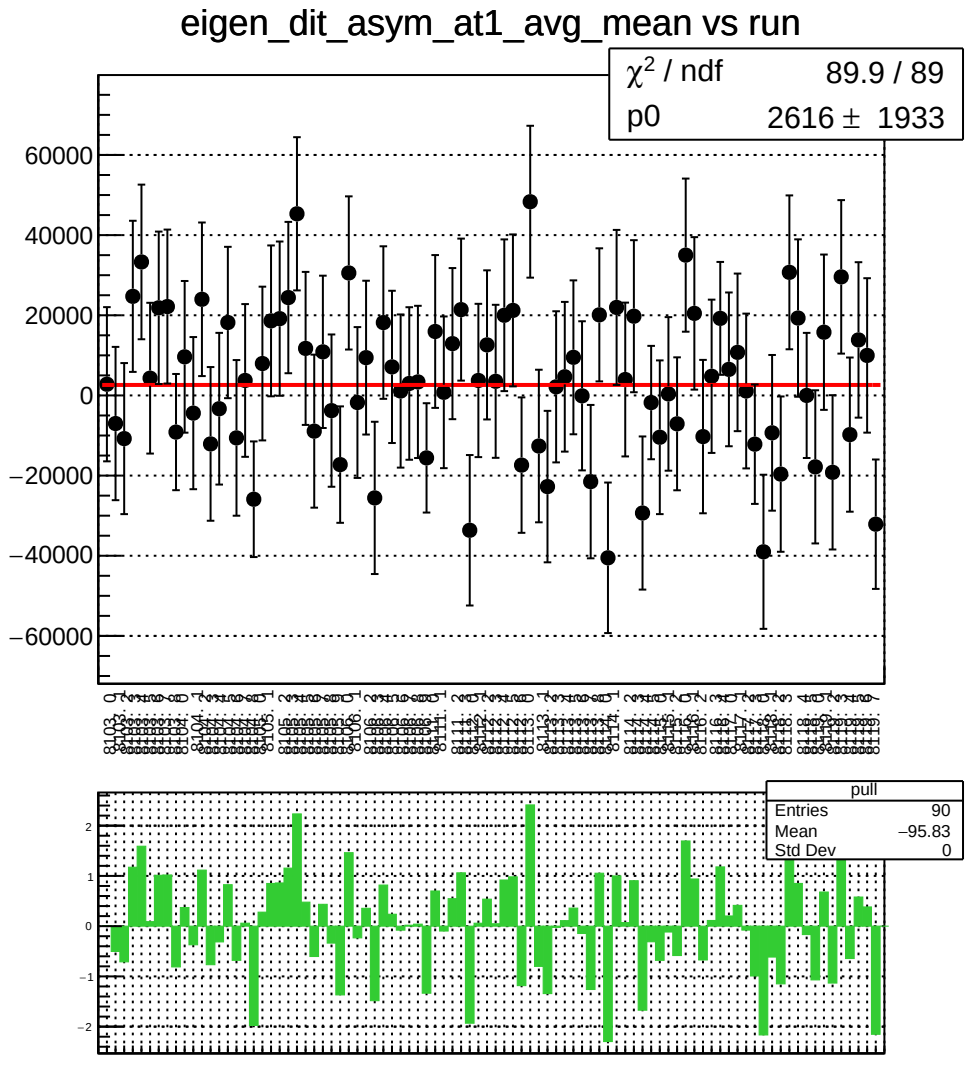

pull1D
Entries 90
Mean 0.02548
Std Dev 0.9991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

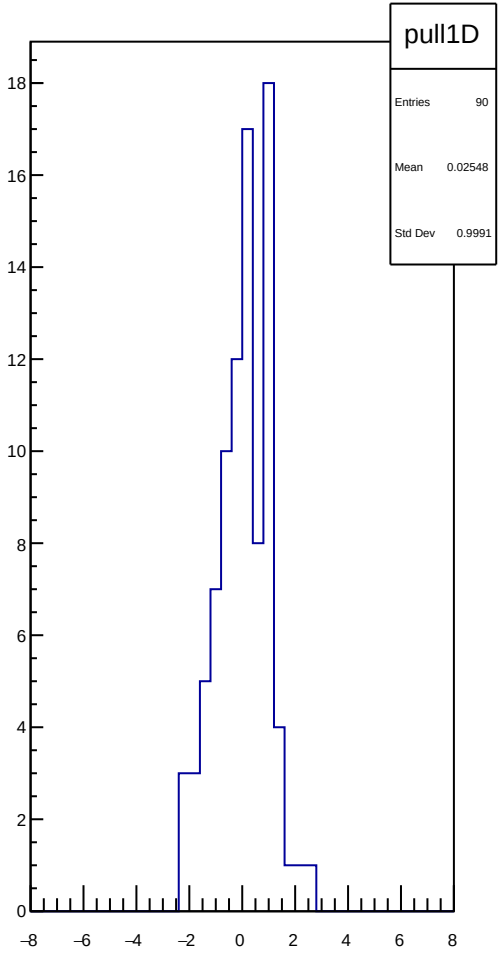

dit_asym_at1_avg_rms vs run
χ² / ndf 240 / 89
p0 1812 ± 1.367
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

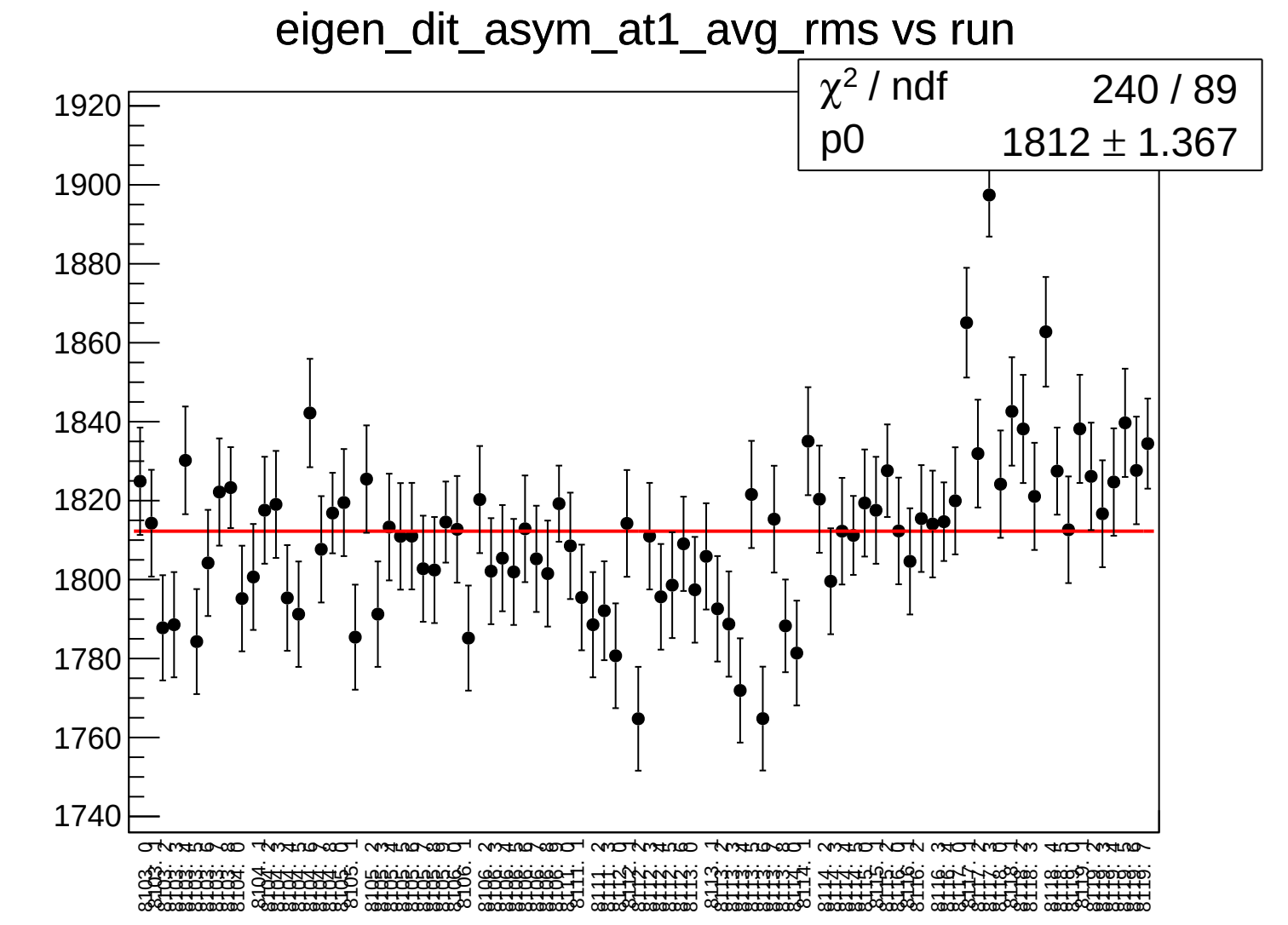

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 84.66 / 89
p0 −1665 ± 951.3
pull
Entries 90
Mean 891.4
Std Dev 0

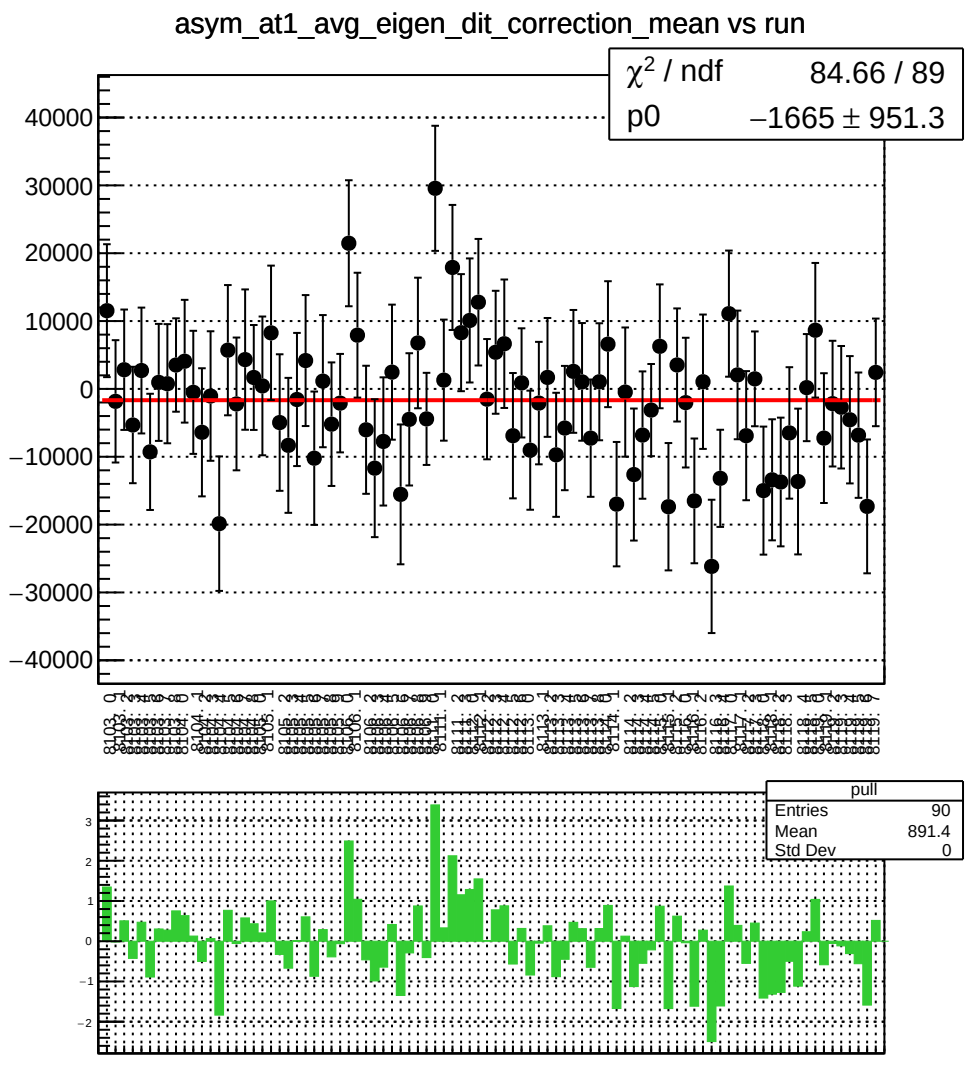

pull1D
Entries 90
Mean −0.007364
Std Dev 0.9699

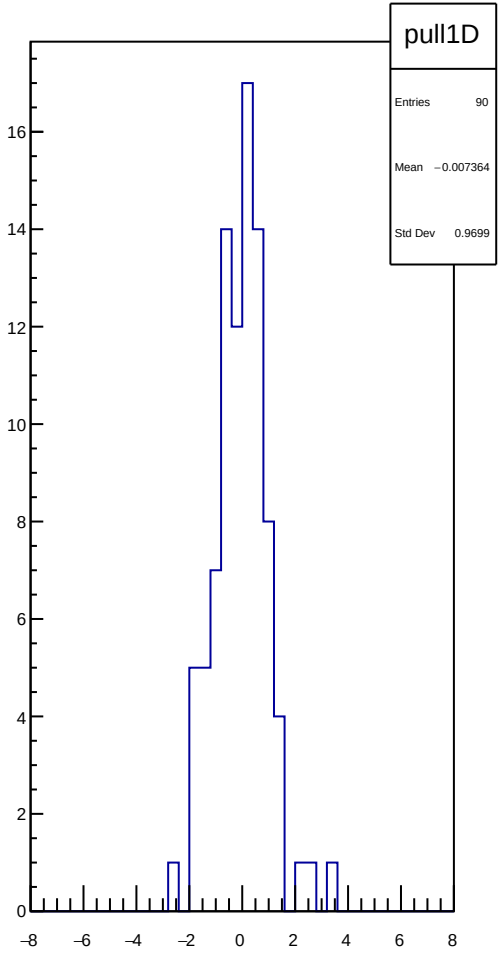

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 3562 / 89
p0 891.2 ± 0.6727
1000
950
900
850
800

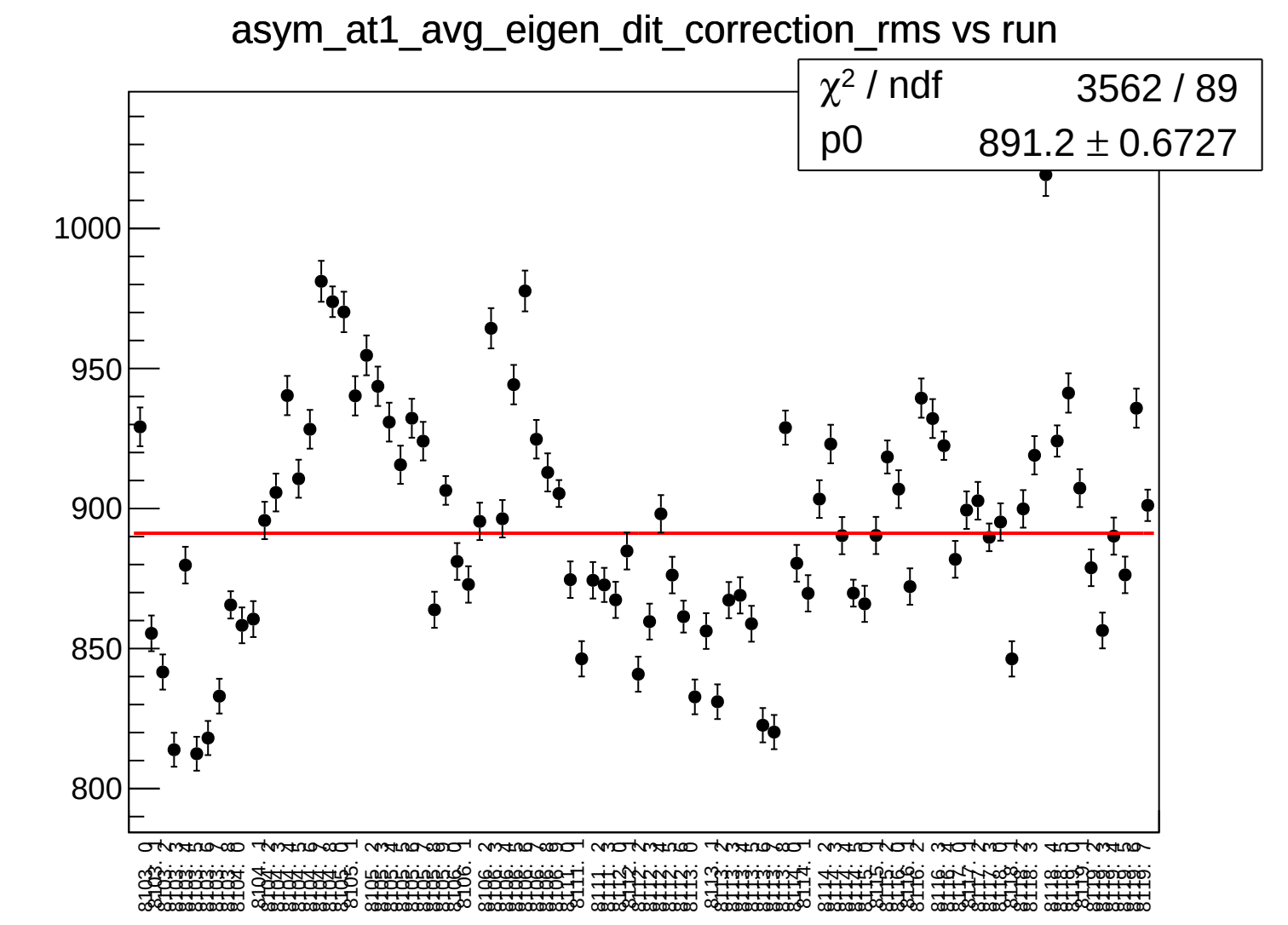

eigen_dit_asym_at1_avg_mean vs run
χ^2 / ndf 89.9 / 89
p0 2616 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −95.83
Std Dev 0
2
1
0
−1
−2

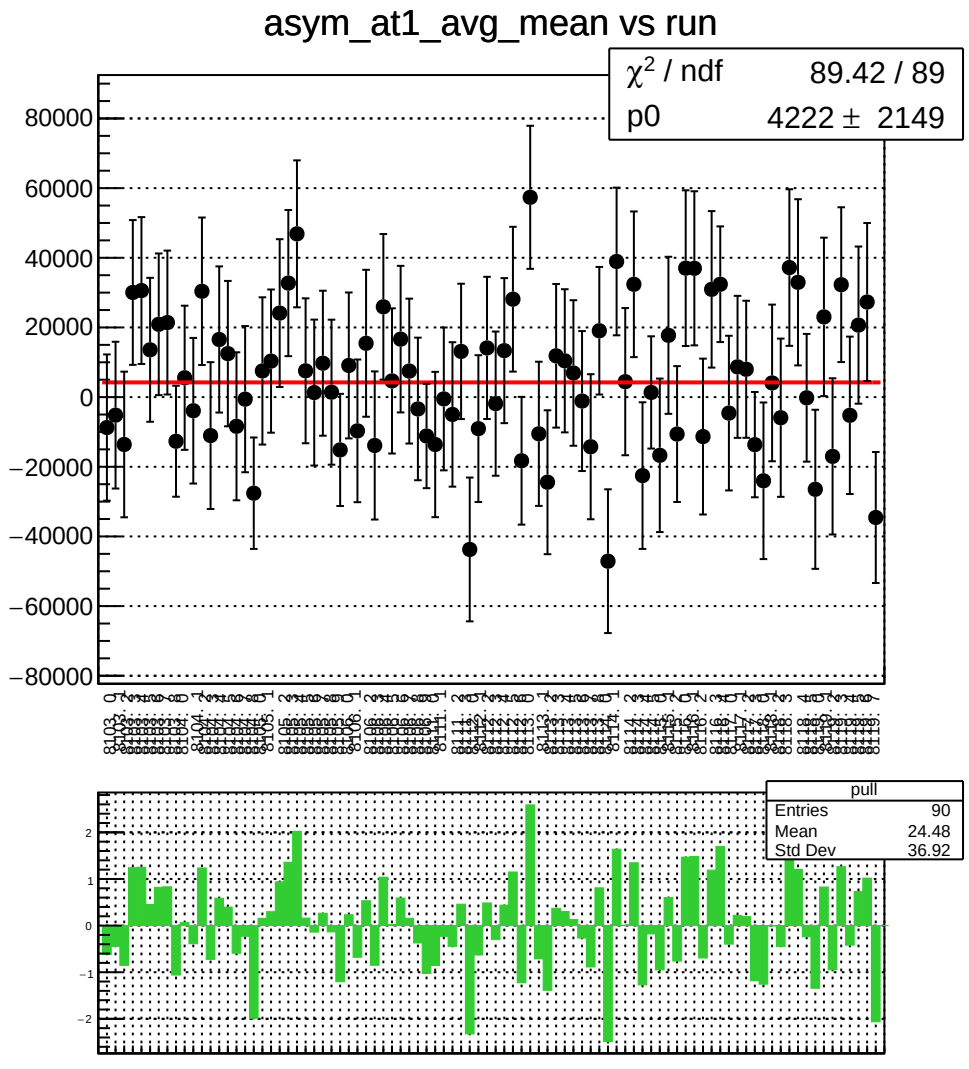

pull1D
Entries 90
Mean 0.02548
Std Dev 0.9991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

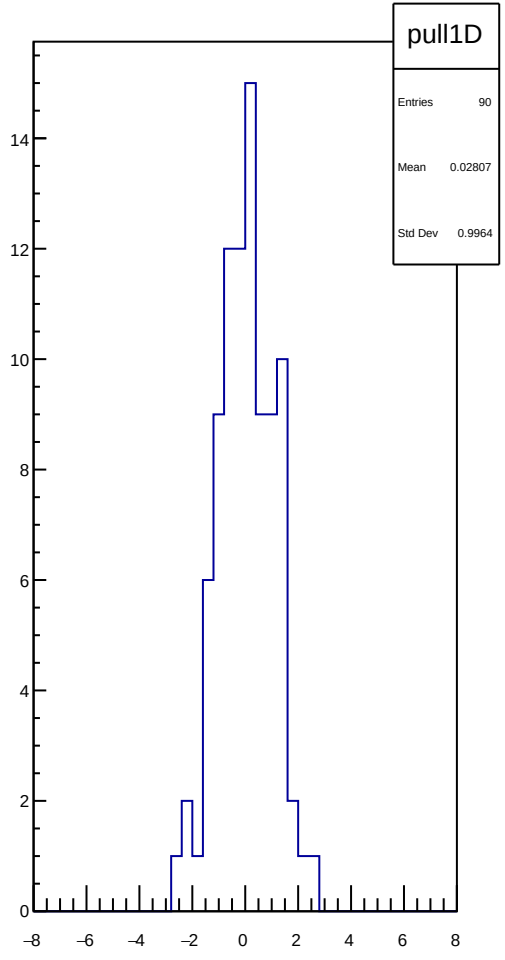

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 240 / 89
p0 1812 ± 1.367
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

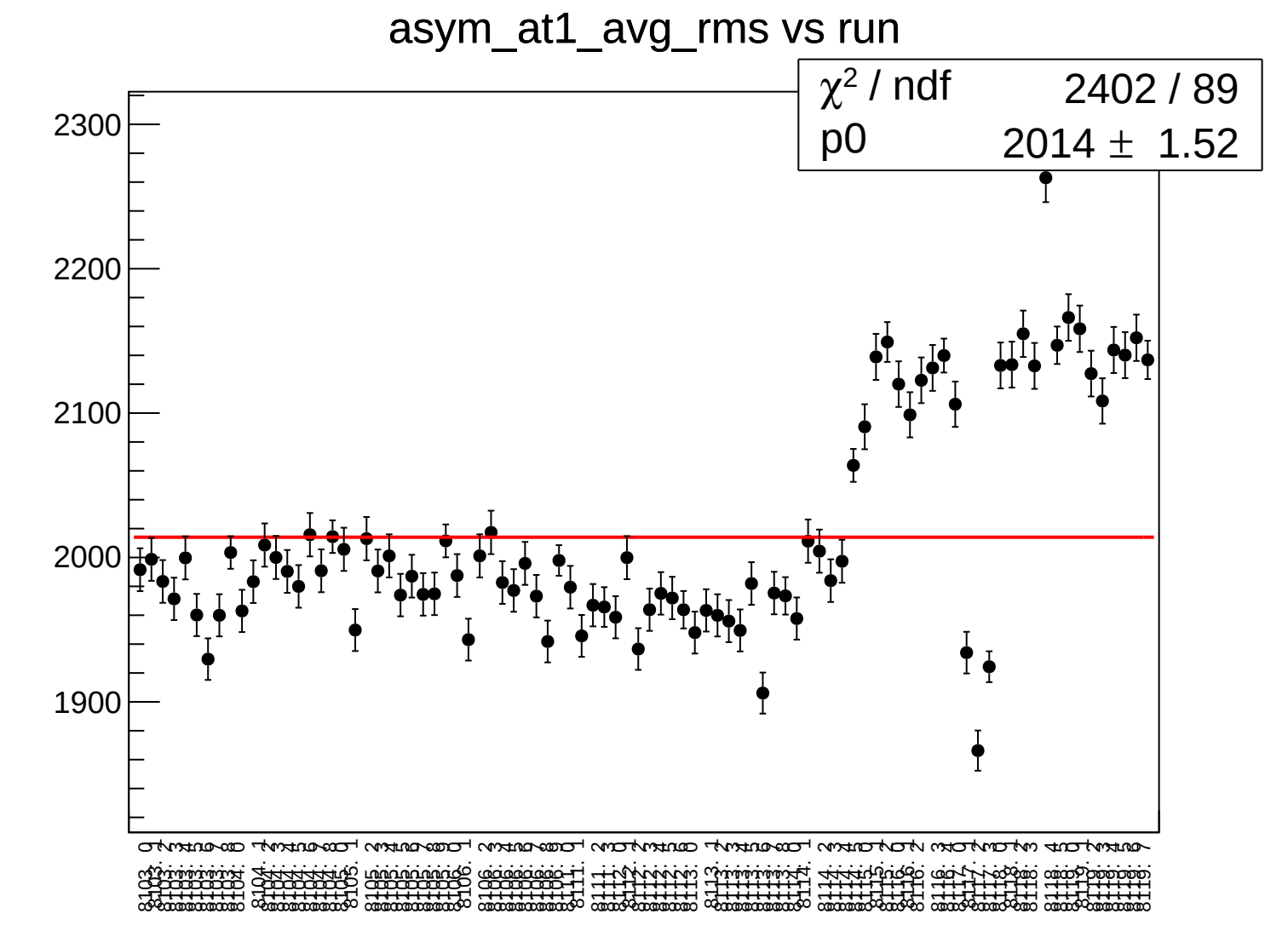

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.66 / 89
p0 −1665 ± 951.3
pull
Entries 90
Mean 891.4
Std Dev 0

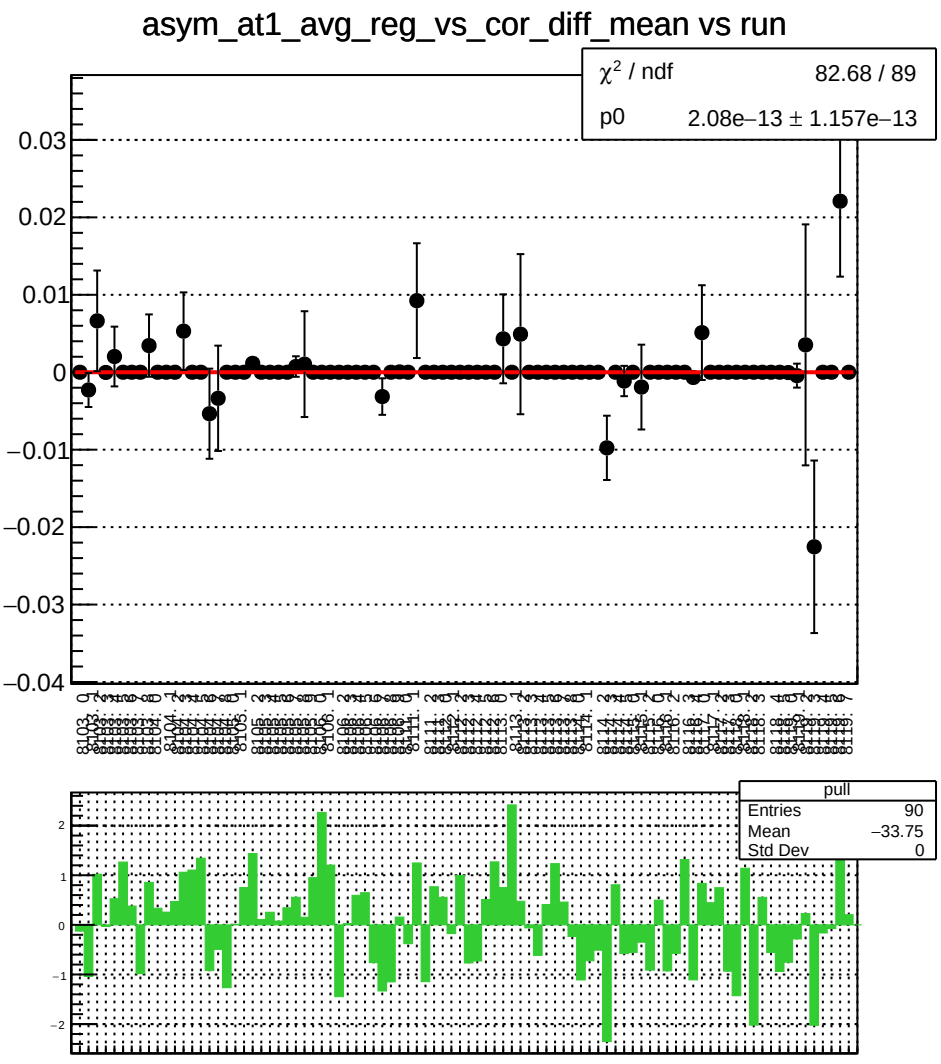

pull1D
Entries 90
Mean −0.007364
Std Dev 0.9699

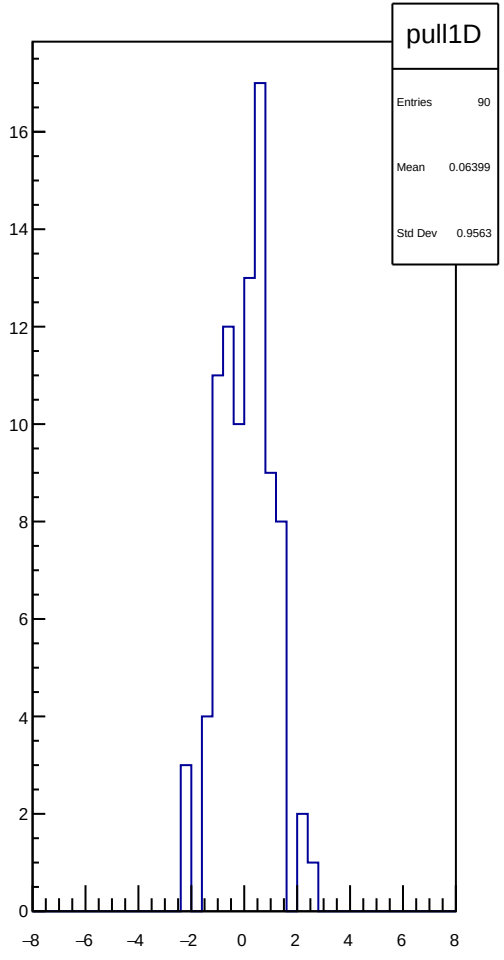

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3562 / 89
p0 891.2 ± 0.6727
1000
950
900
850
800

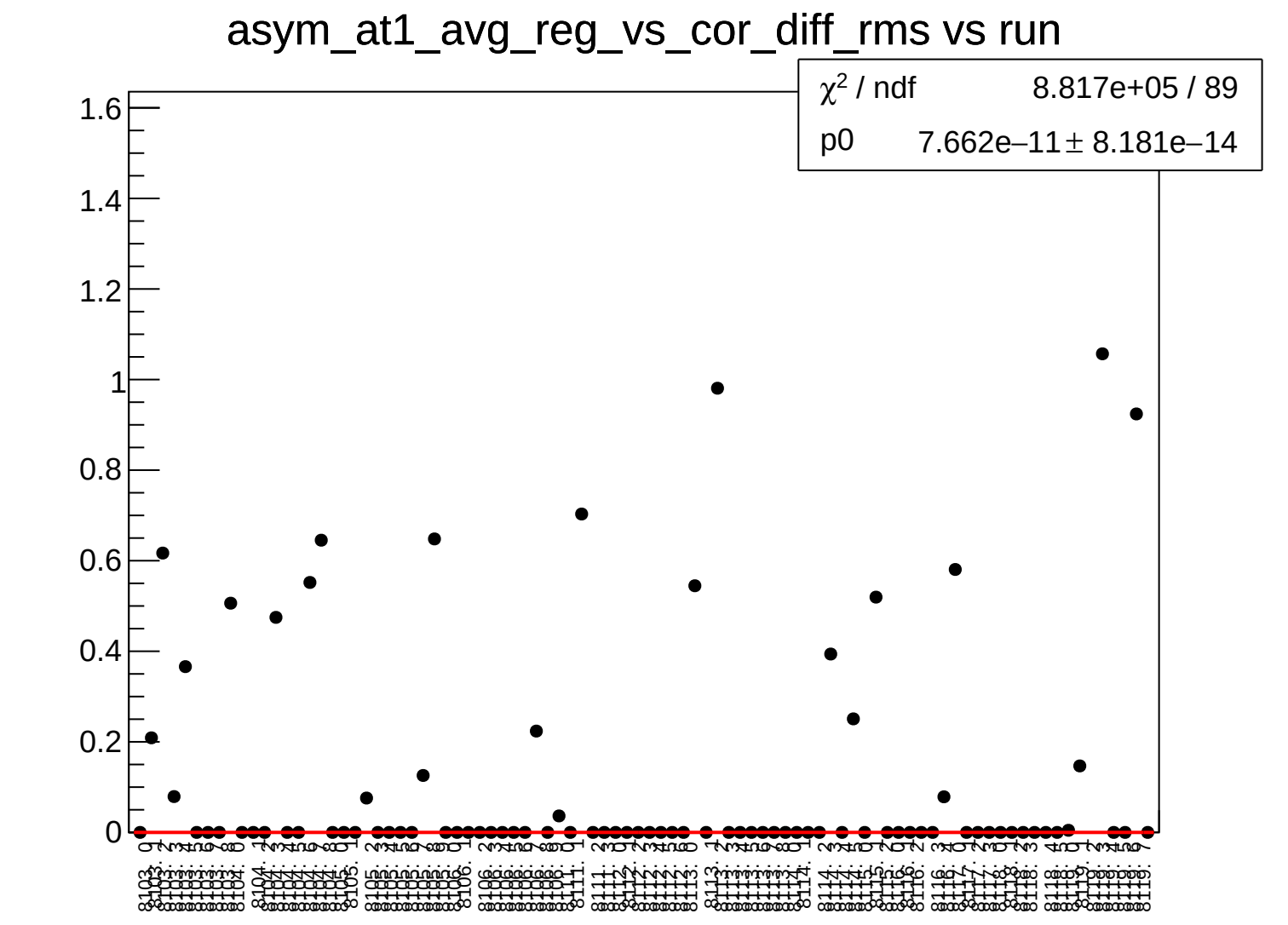

asym_at1_avg_mean vs run
χ² / ndf 89.42 / 89
p0 4222 ± 2149
pull
Entries 90
Mean 24.48
Std Dev 36.92

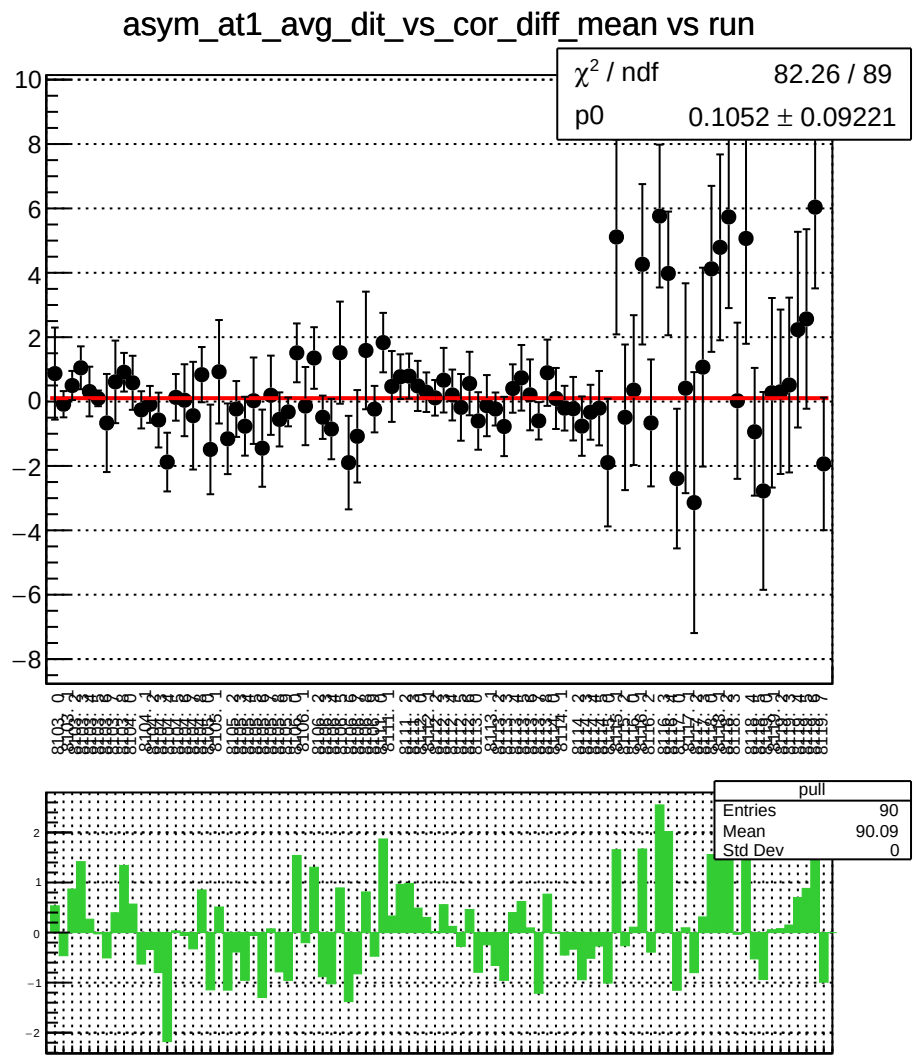

pull1D
Entries 90
Mean 0.02807
Std Dev 0.9964

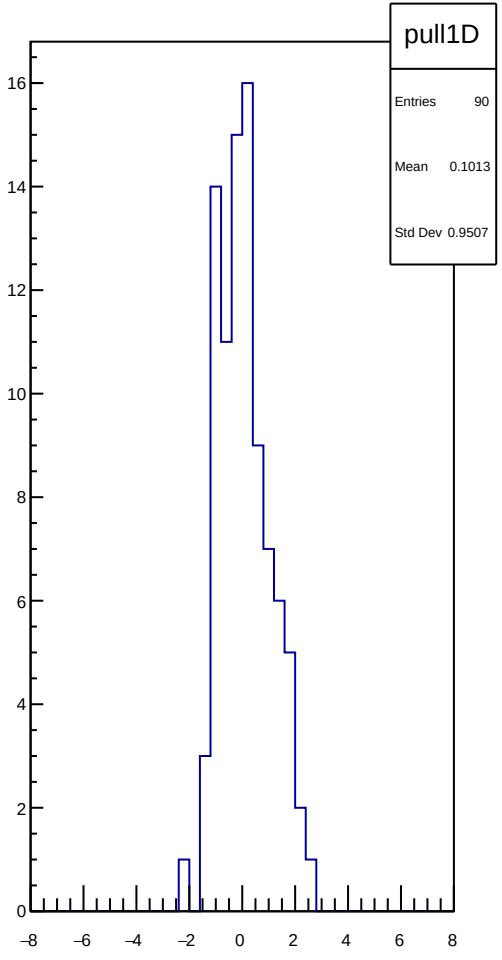

asym_at1_avg_rms vs run
χ² / ndf 2402 / 89
p0 2014 ± 1.52
2300
2200
2100
2000
1900

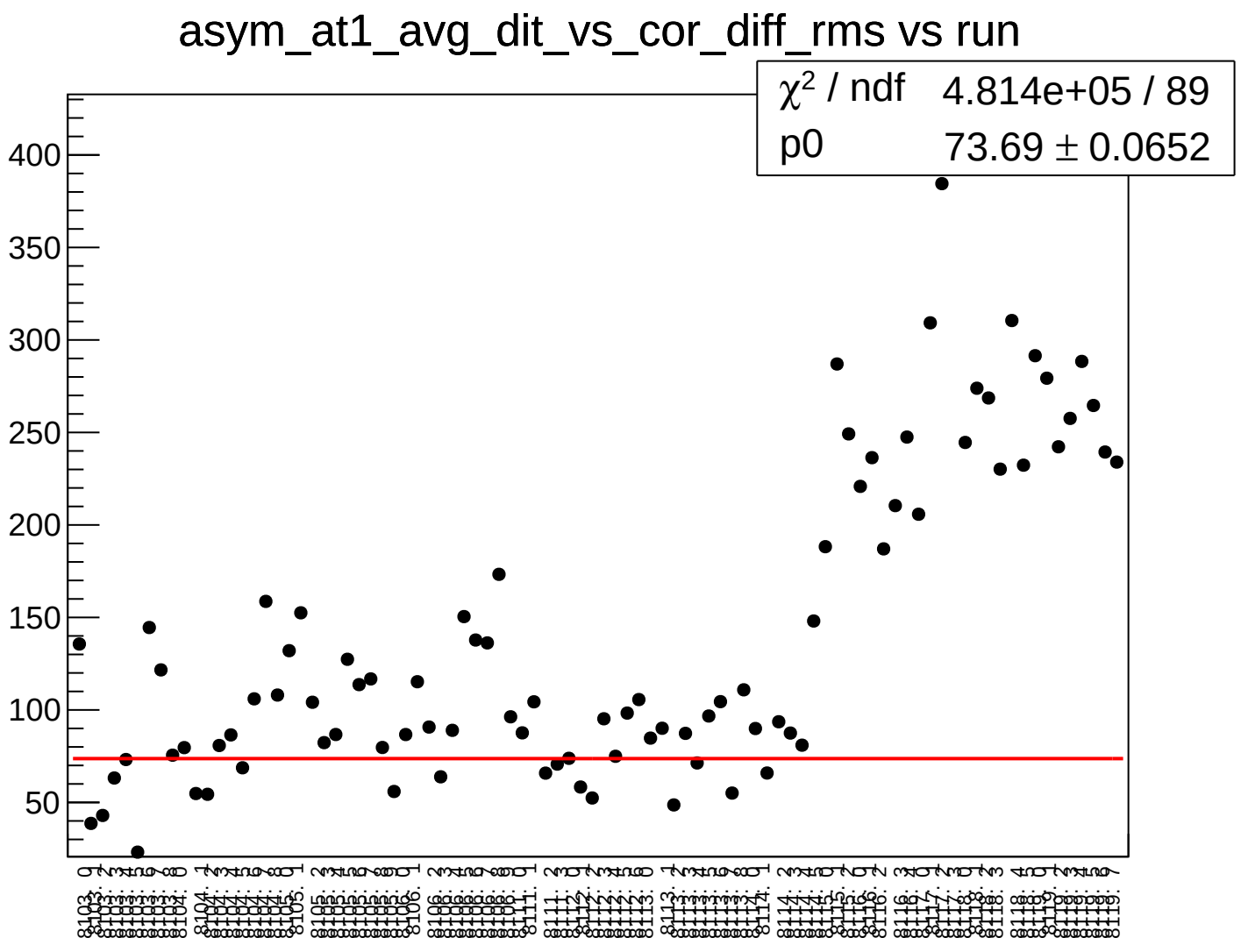

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.68 / 89
p0 2.08e−13 ± 1.157e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 90
Mean −33.75
Std Dev 0
2
1
0
−1
−2

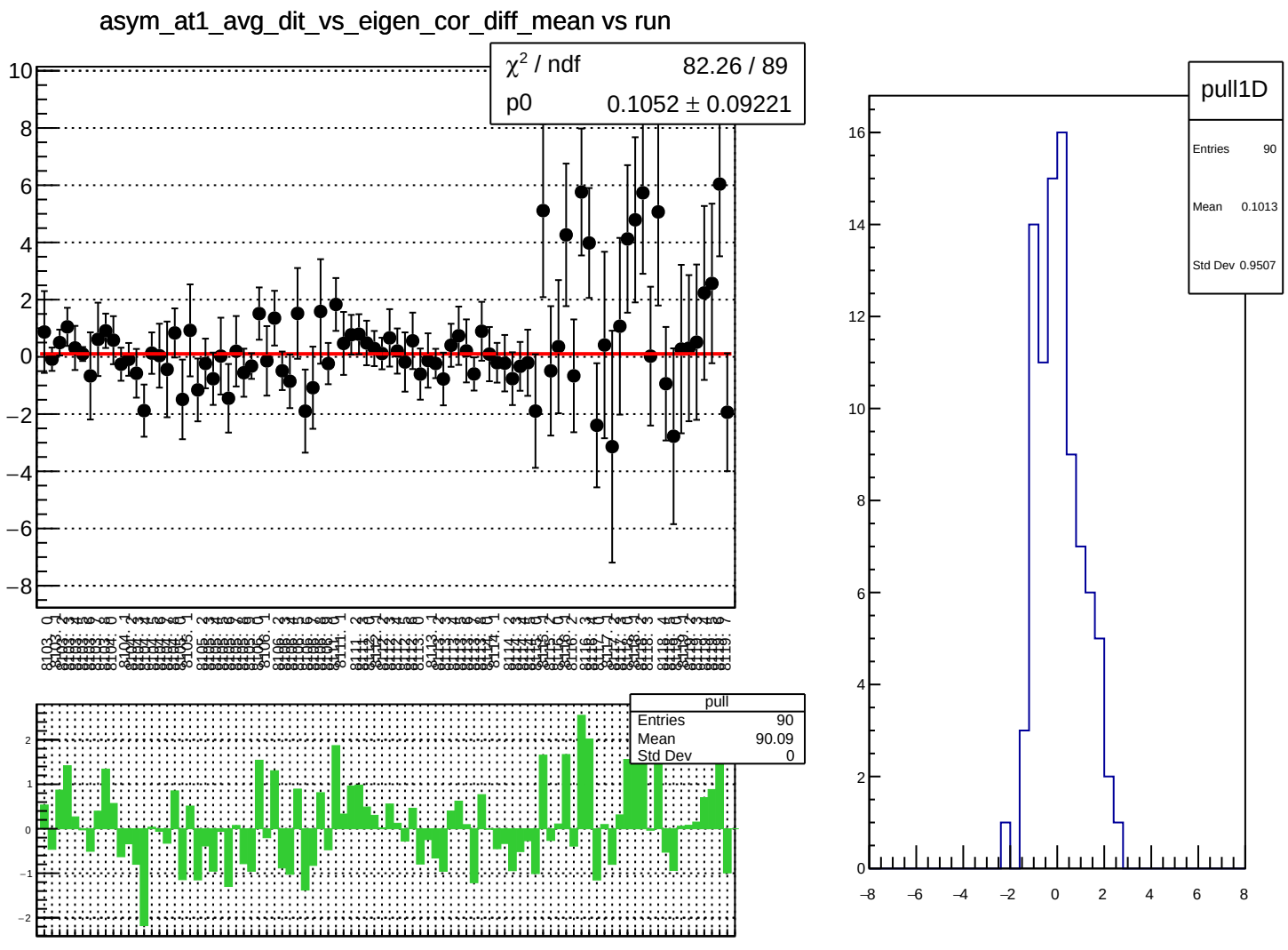

pull1D
Entries 90
Mean 0.06399
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

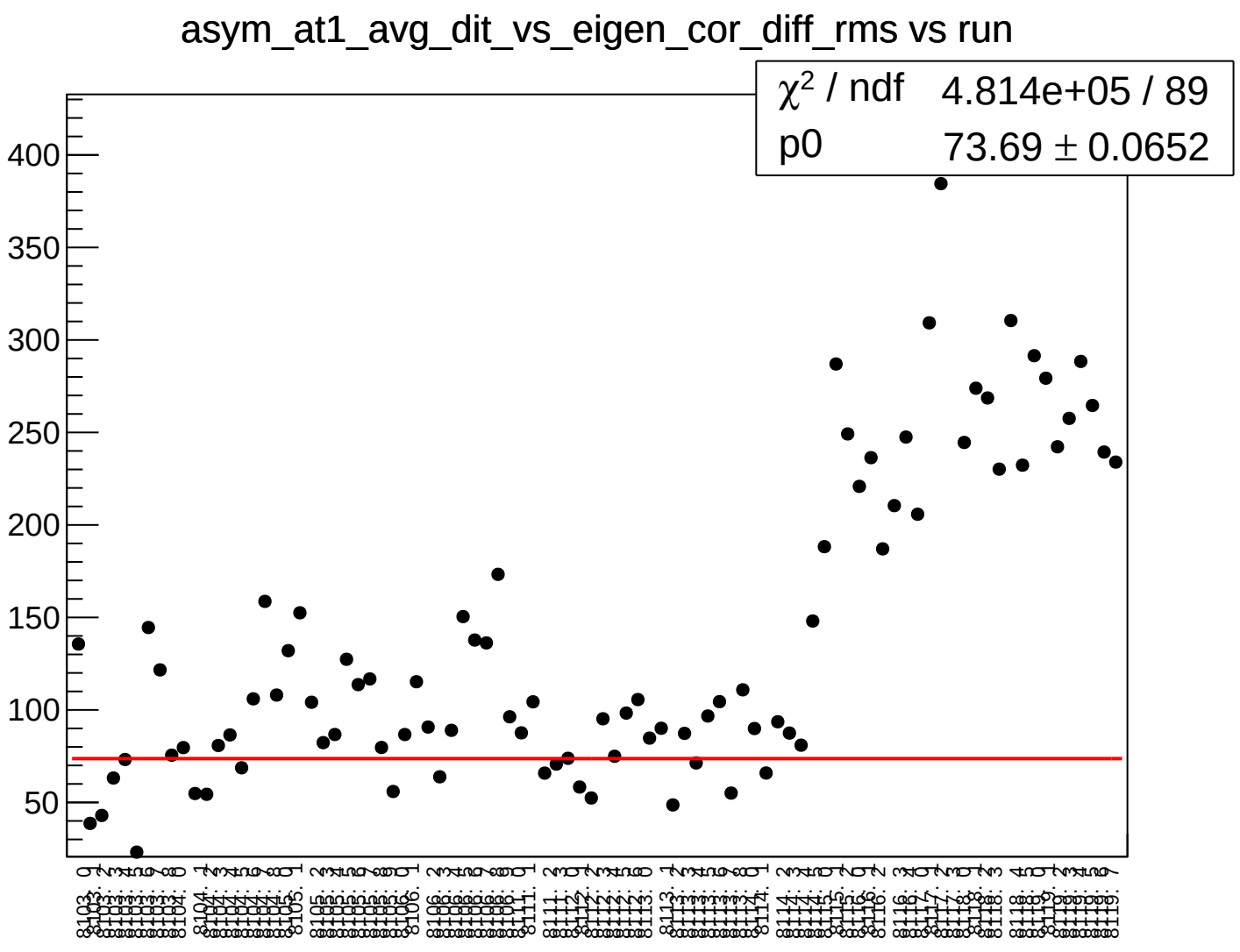

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.817e+05 / 89
p0 7.662e−11 ± 8.181e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

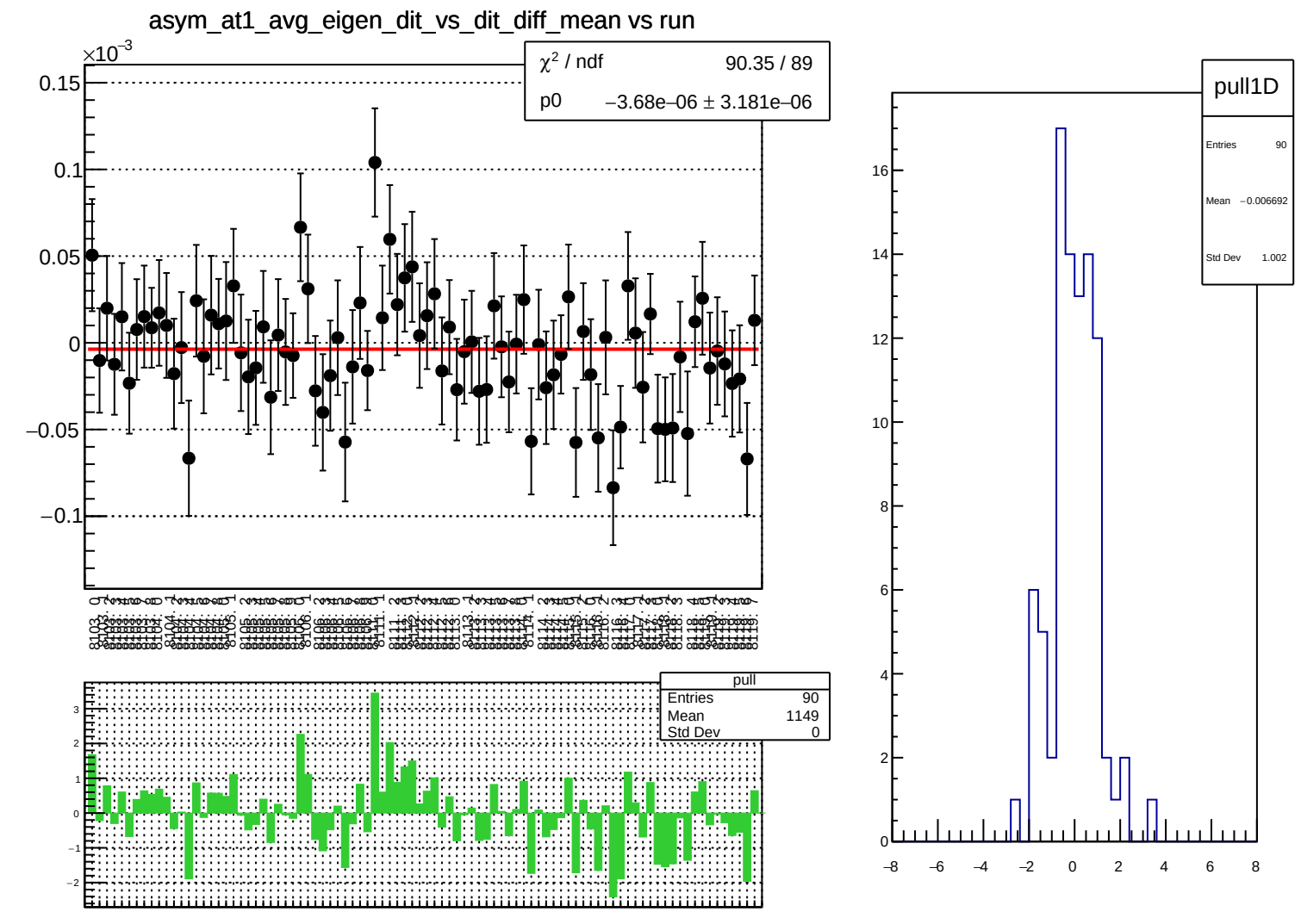

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.26 / 89
p0 0.1052 ± 0.09221
pull
Entries 90
Mean 90.09
Std Dev 0

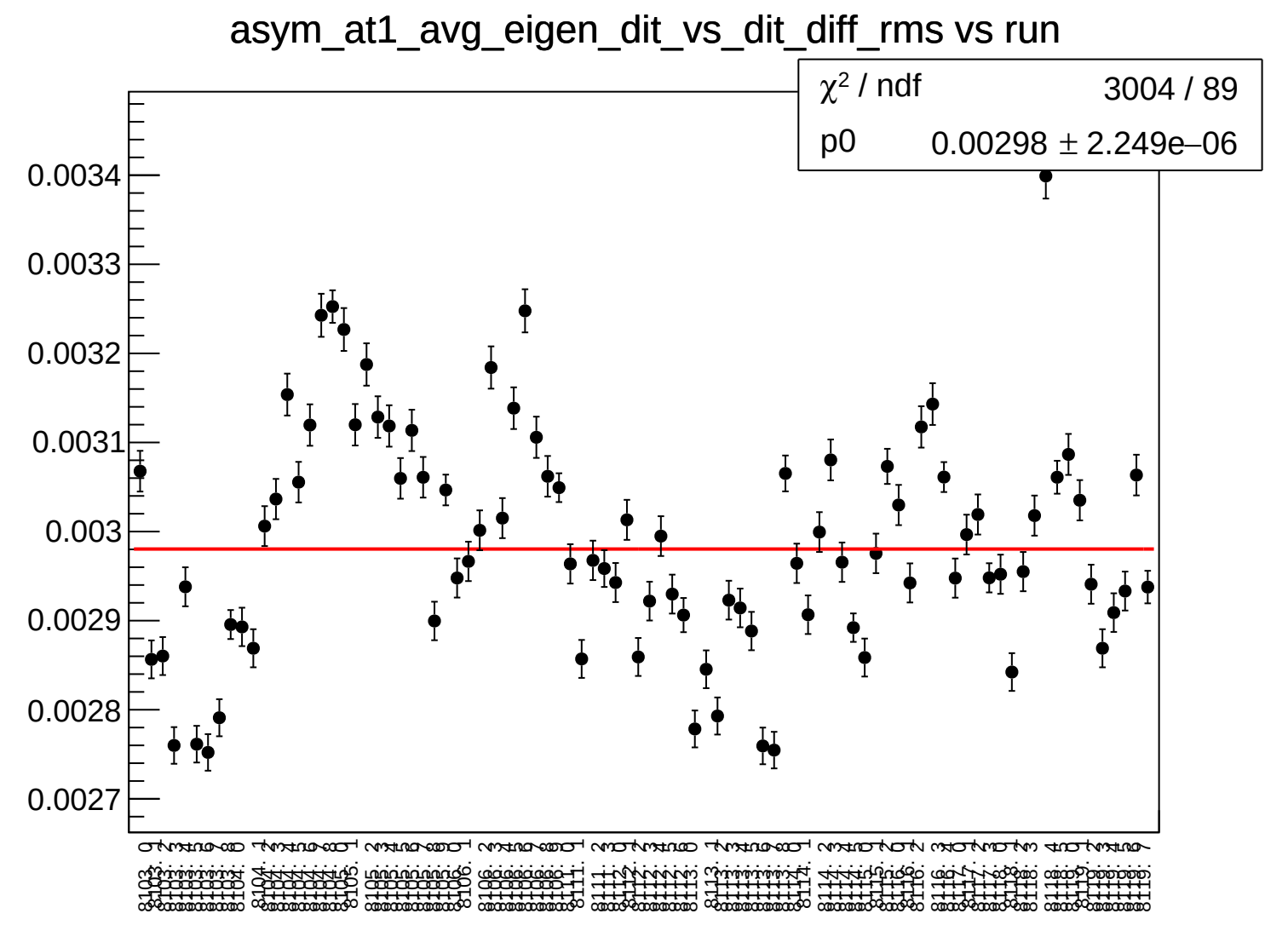

pull1D
Entries 90
Mean 0.1013
Std Dev 0.9507

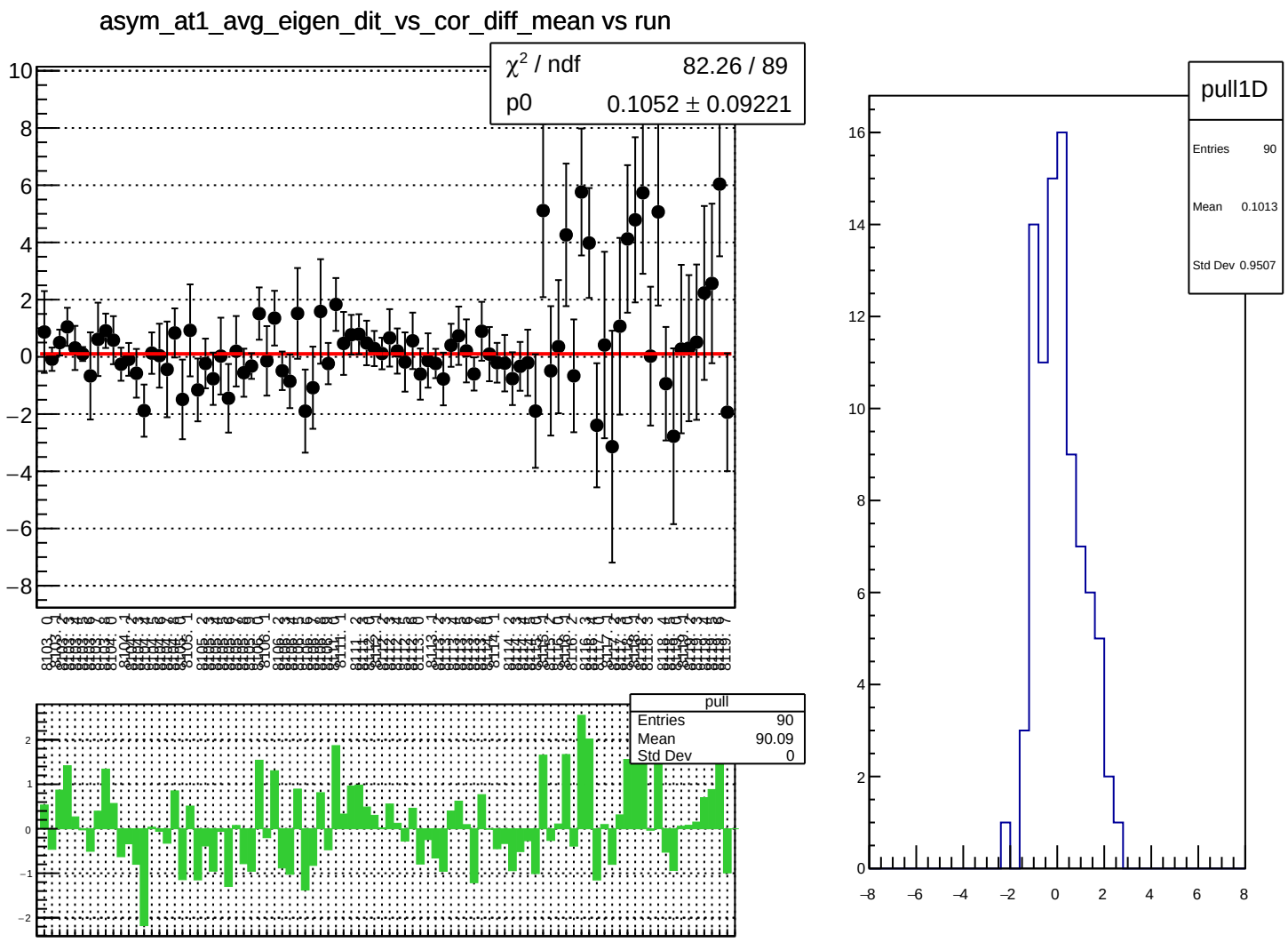

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.814e+05 / 89
p0 73.69 ± 0.0652
400
350
300
250
200
150
100
50

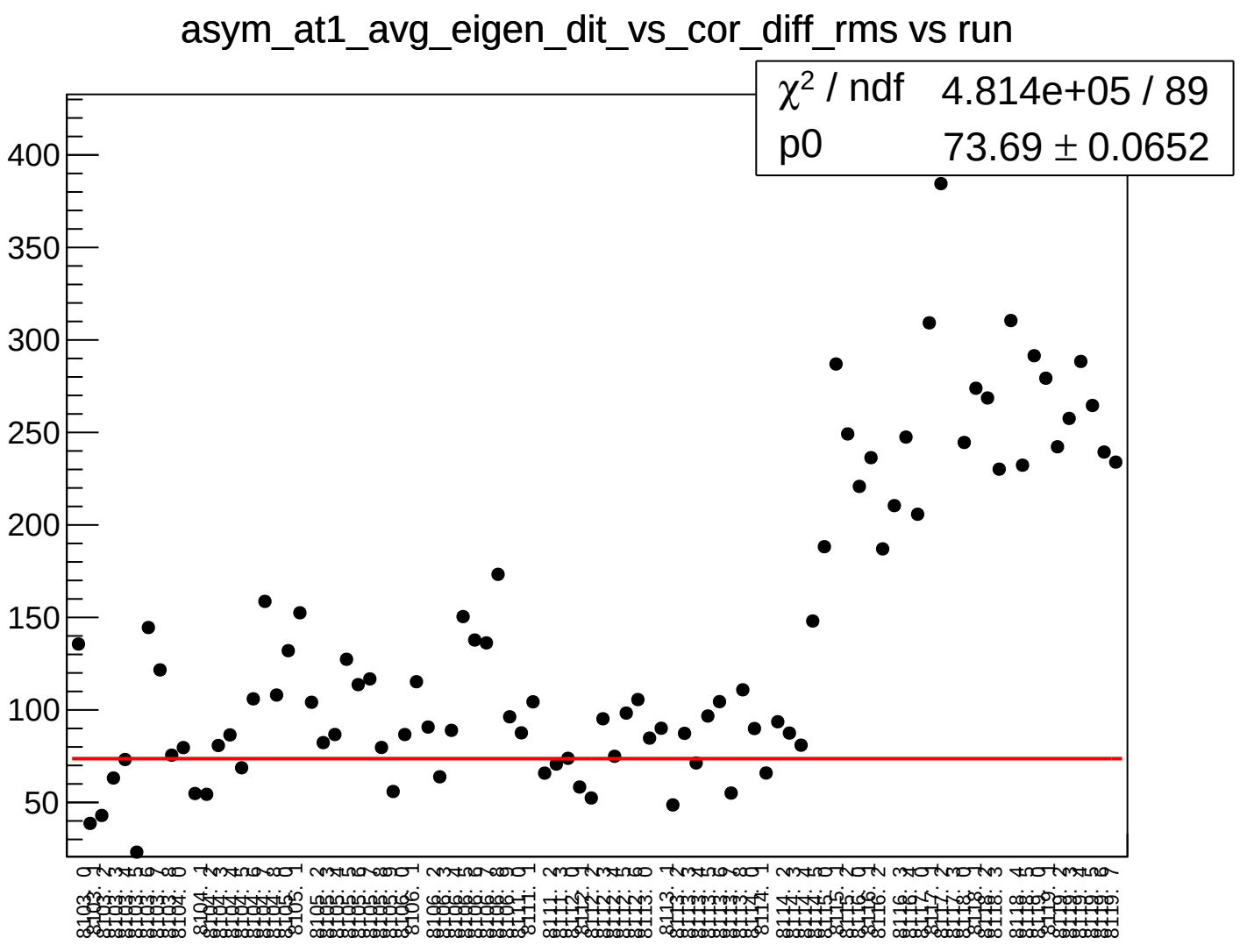

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.26 / 89
p0 0.1052 ± 0.09221
pull
Entries 90
Mean 90.09
Std Dev 0
pull1D
Entries 90
Mean 0.1013
Std Dev 0.9507

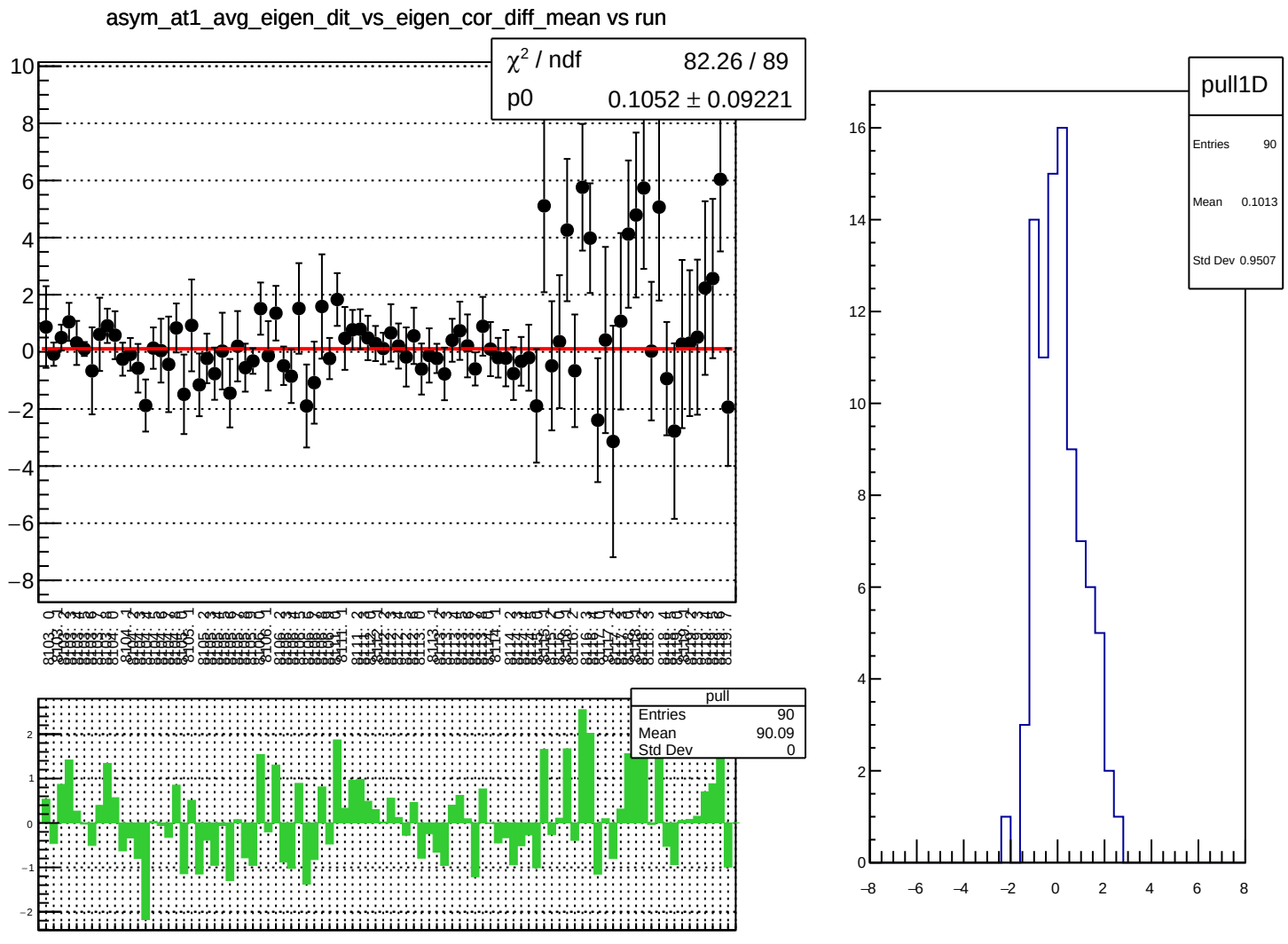

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.814e+05 / 89
p0 73.69 ± 0.0652
400
350
300
250
200
150
100
50

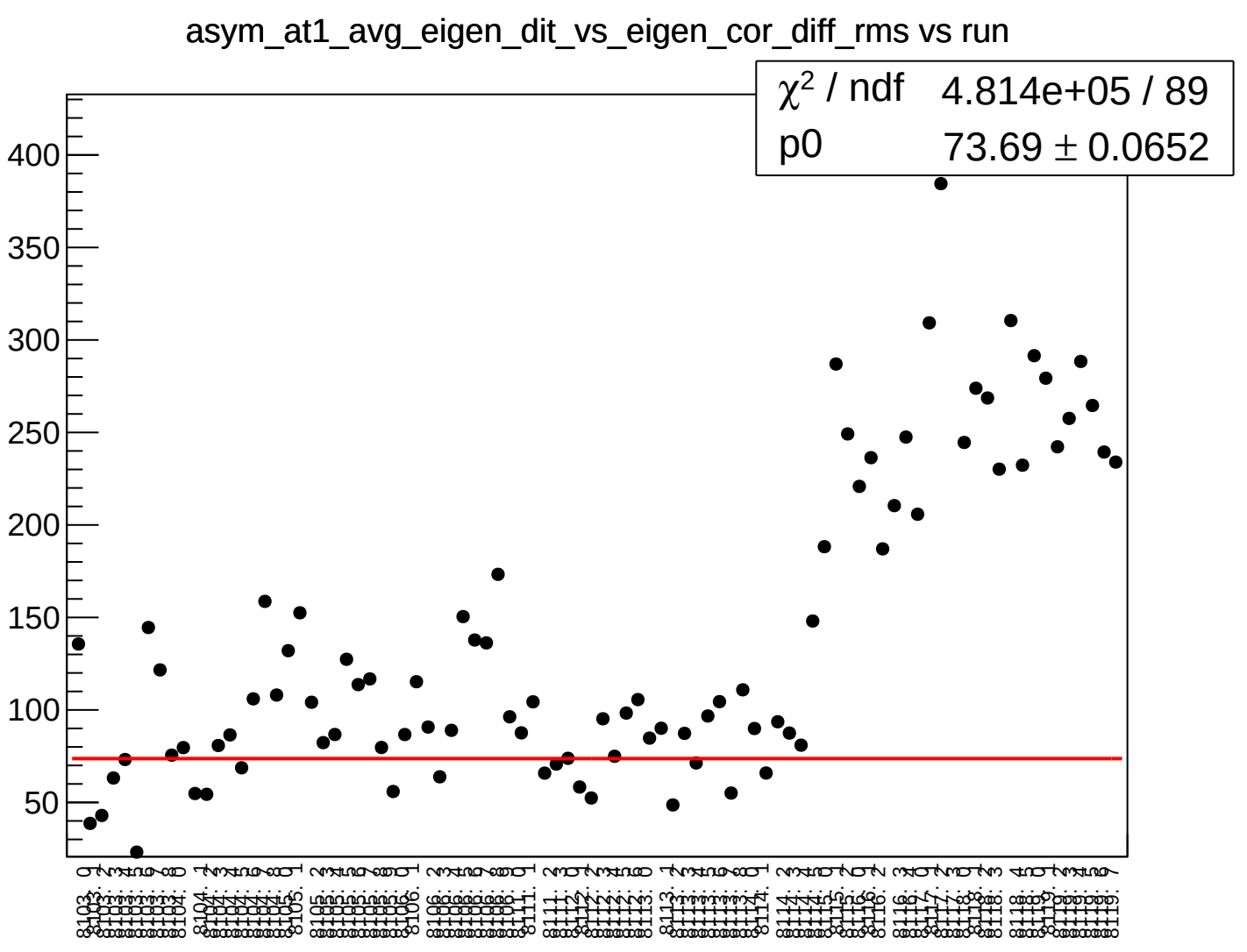

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.35 / 89
p0 −3.68e−06 ± 3.181e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean 1149
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.006692
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

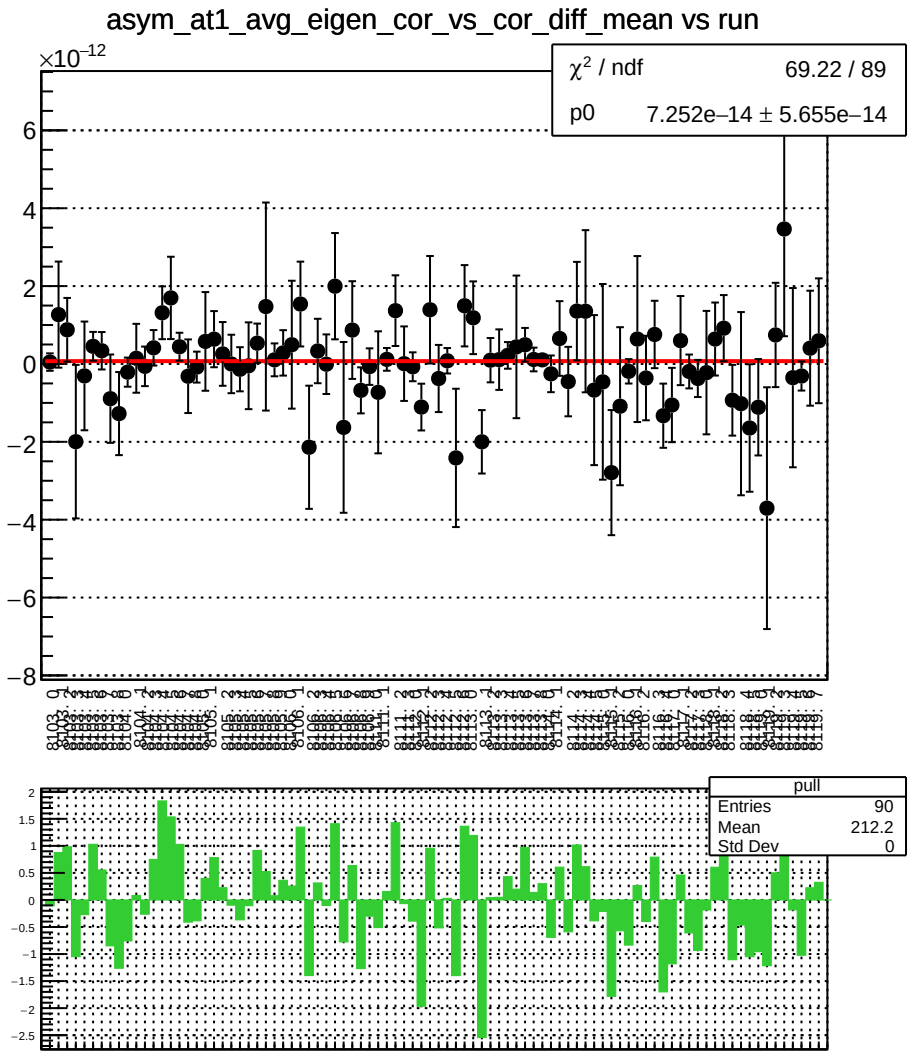

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3004 / 89
p0 0.00298 ± 2.249e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

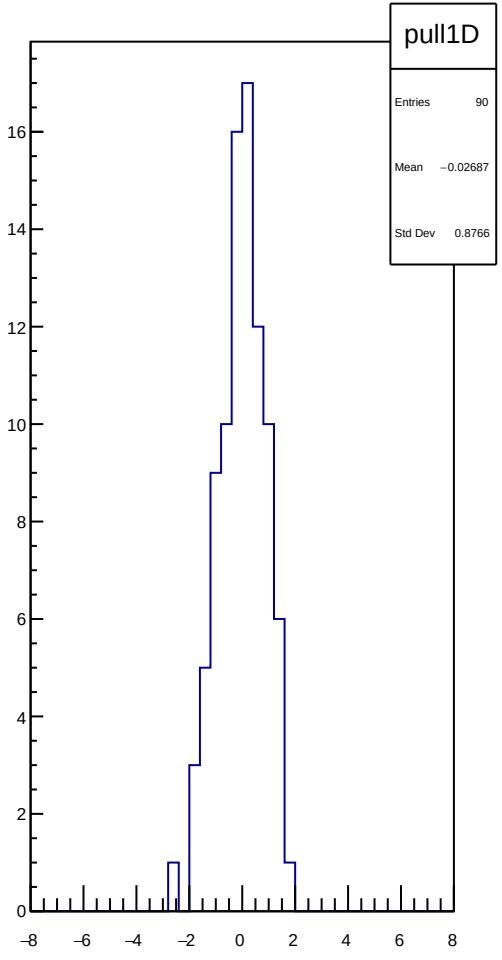

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.26 / 89
p0 0.1052 ± 0.09221
pull
Entries 90
Mean 90.09
Std Dev 0
pull1D
Entries 90
Mean 0.1013
Std Dev 0.9507

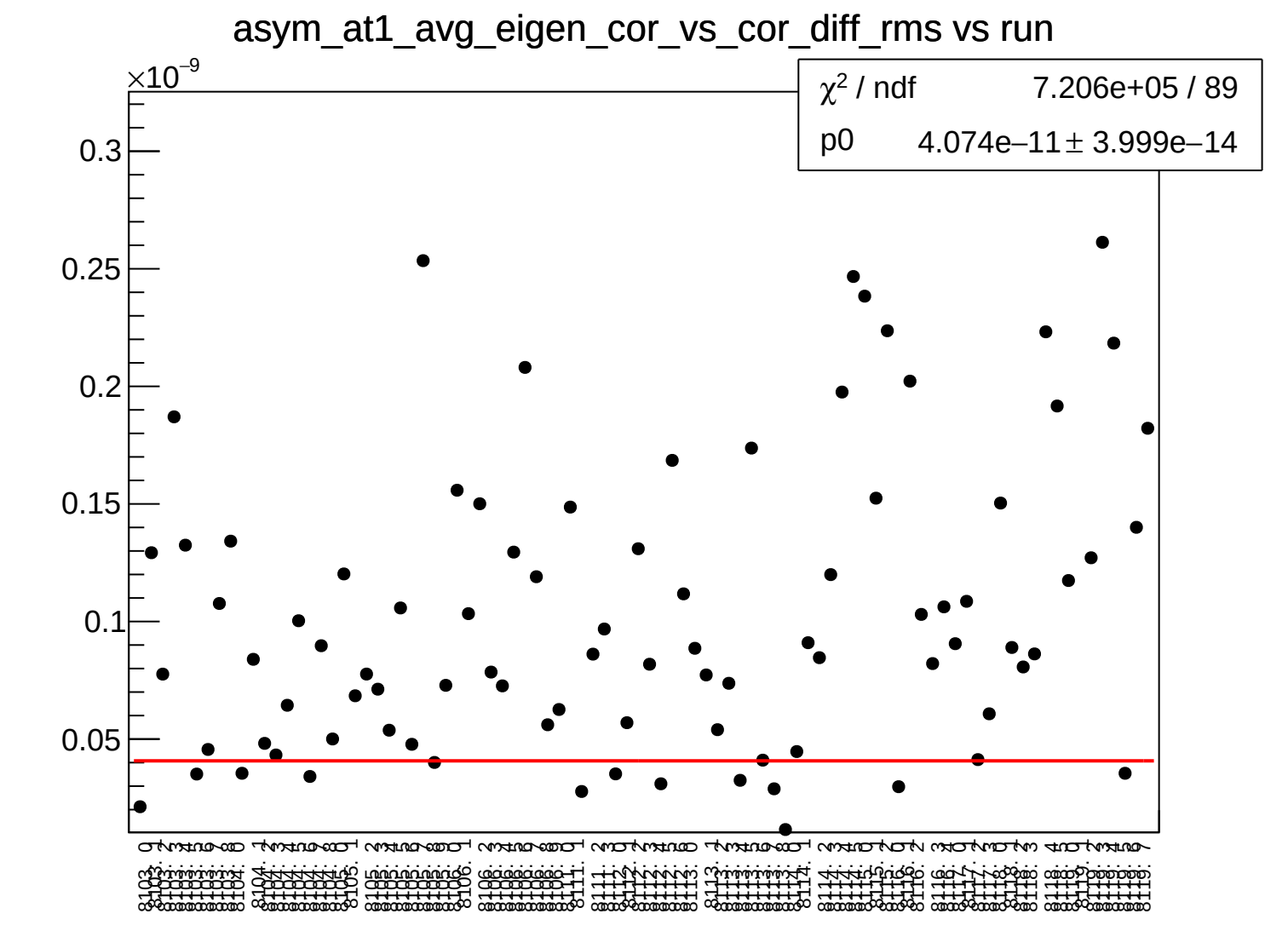

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.814e+05 / 89
p0 73.69 ± 0.0652
400
350
300
250
200
150
100
50

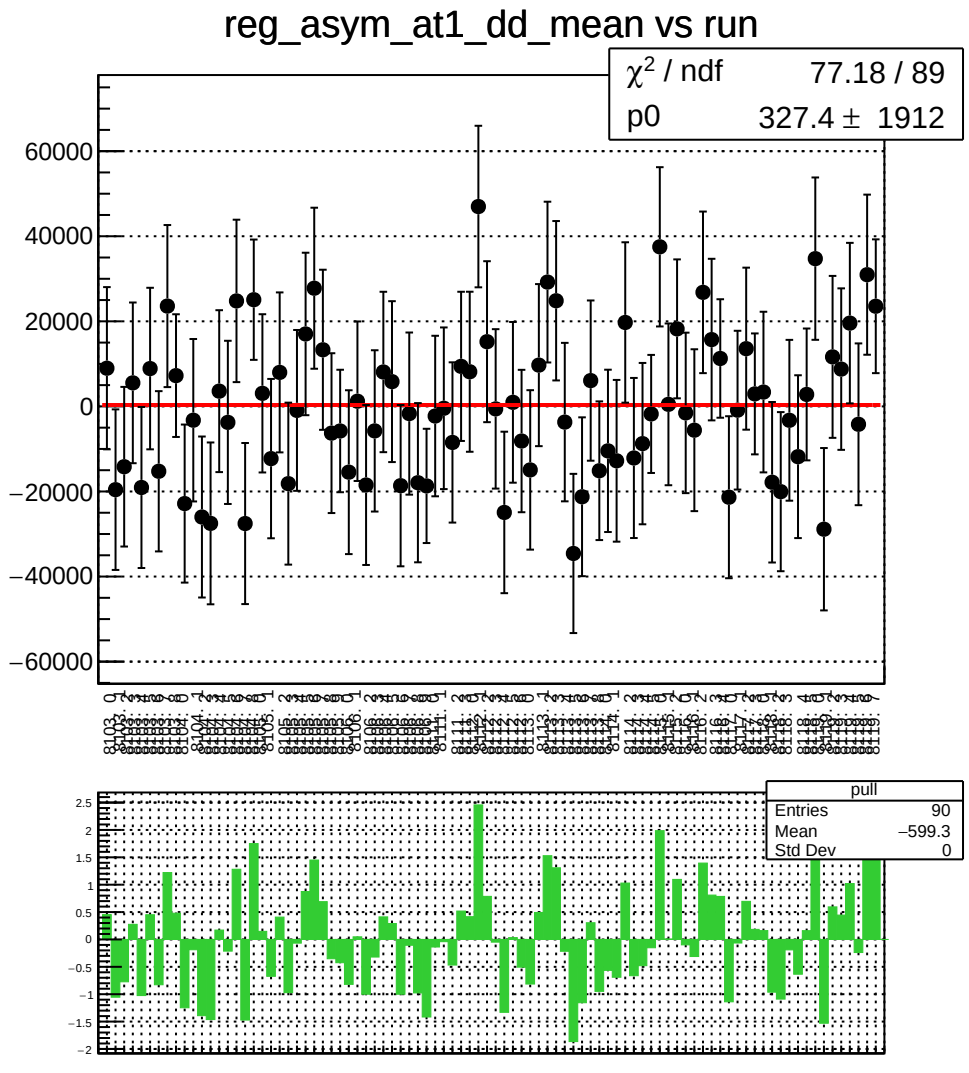

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.26 / 89
p0 0.1052 ± 0.09221
pull
Entries 90
Mean 90.09
Std Dev 0
pull1D
Entries 90
Mean 0.1013
Std Dev 0.9507

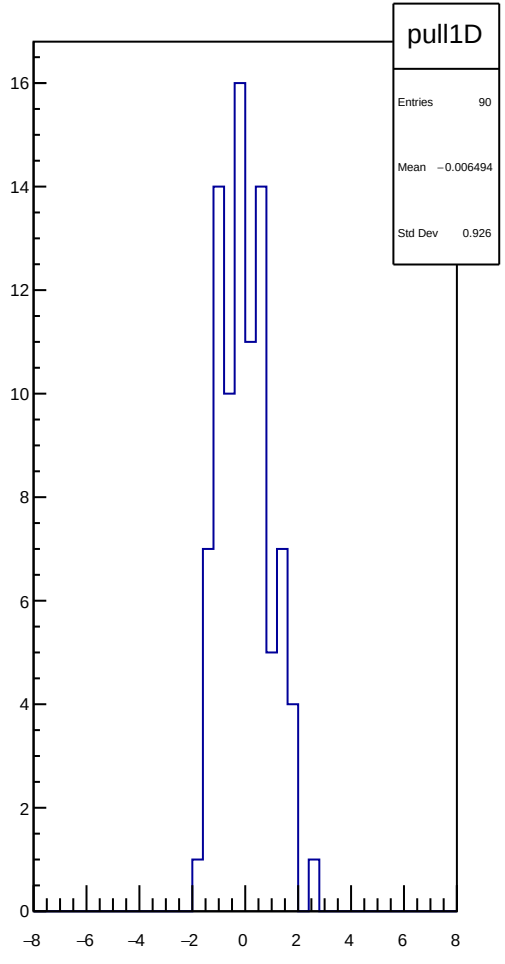

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.814e+05 / 89
p0 73.69 ± 0.0652
400
350
300
250
200
150
100
50

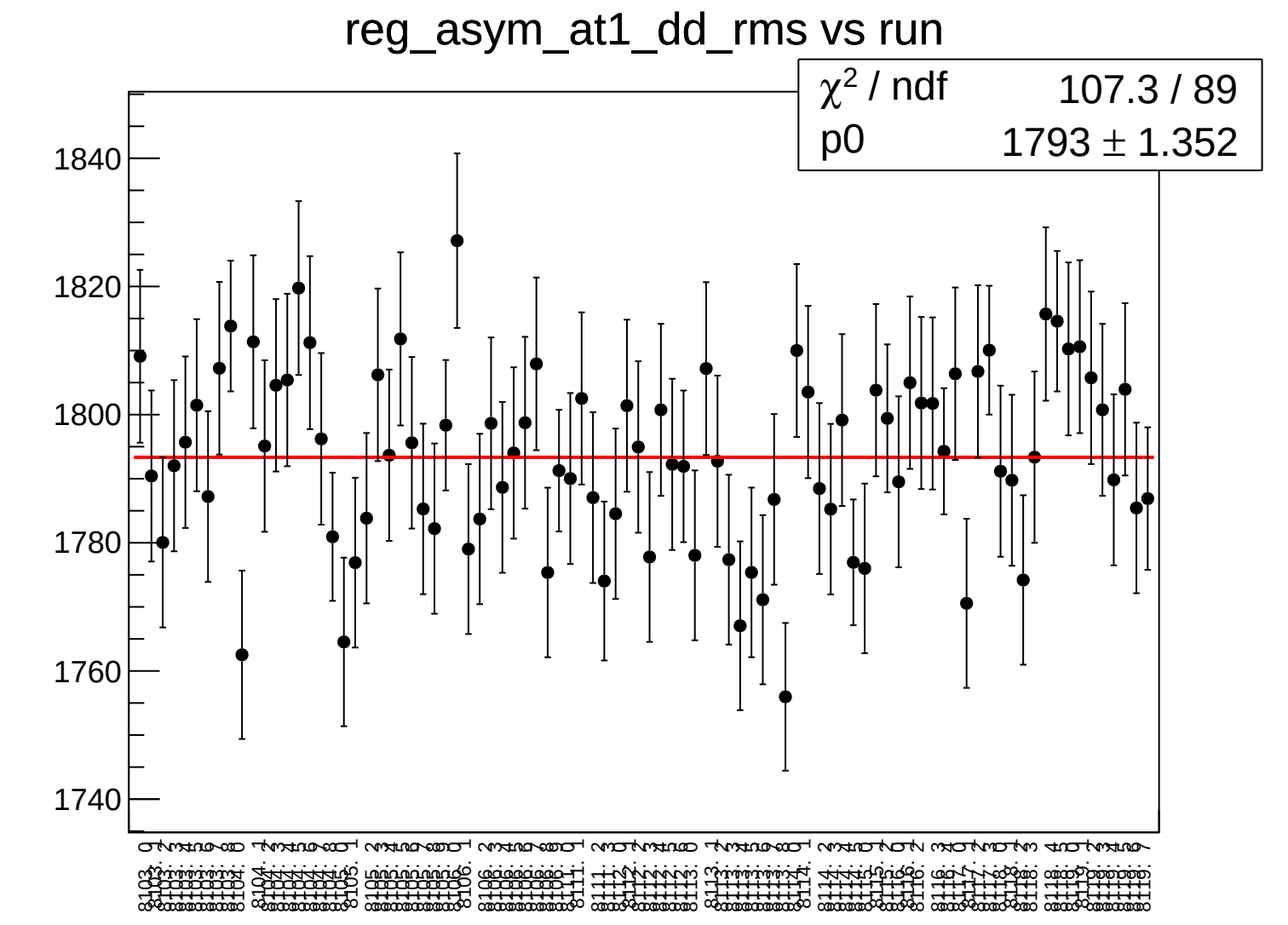

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 69.22 / 89
p0 7.252e−14 ± 5.655e−14
pull
Entries 90
Mean 212.2
Std Dev 0

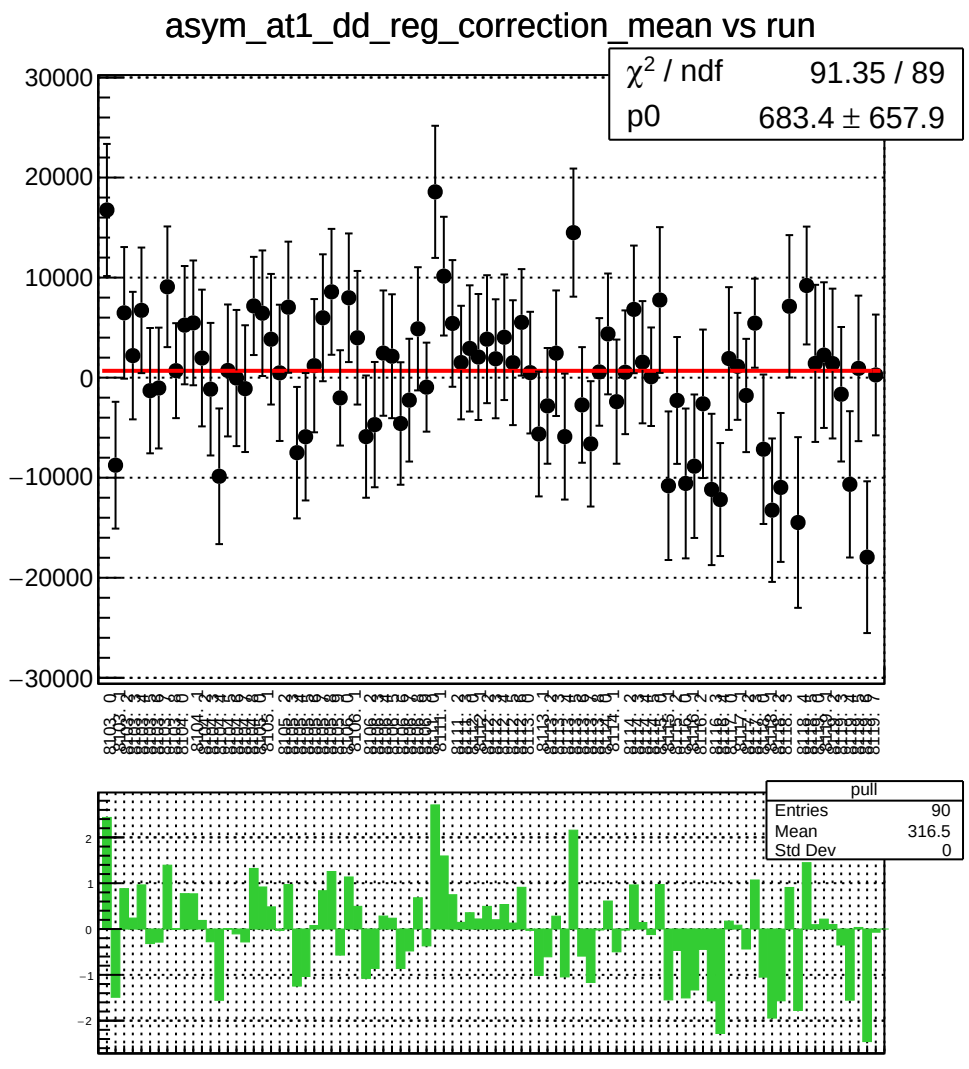

pull1D
Entries 90
Mean −0.02687
Std Dev 0.8766

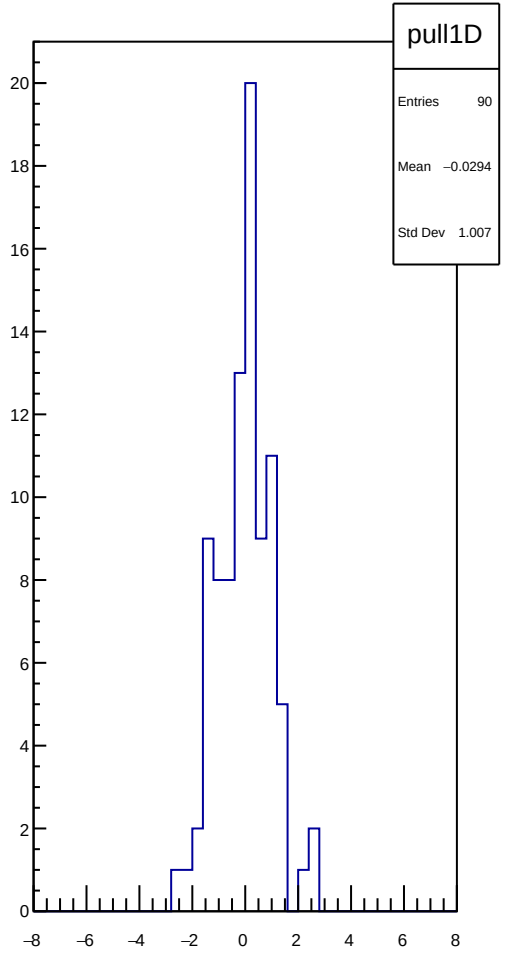

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.206e+05 / 89
p0 4.074e−11 ± 3.999e−14
0.3
0.25
0.2
0.15
0.1
0.05

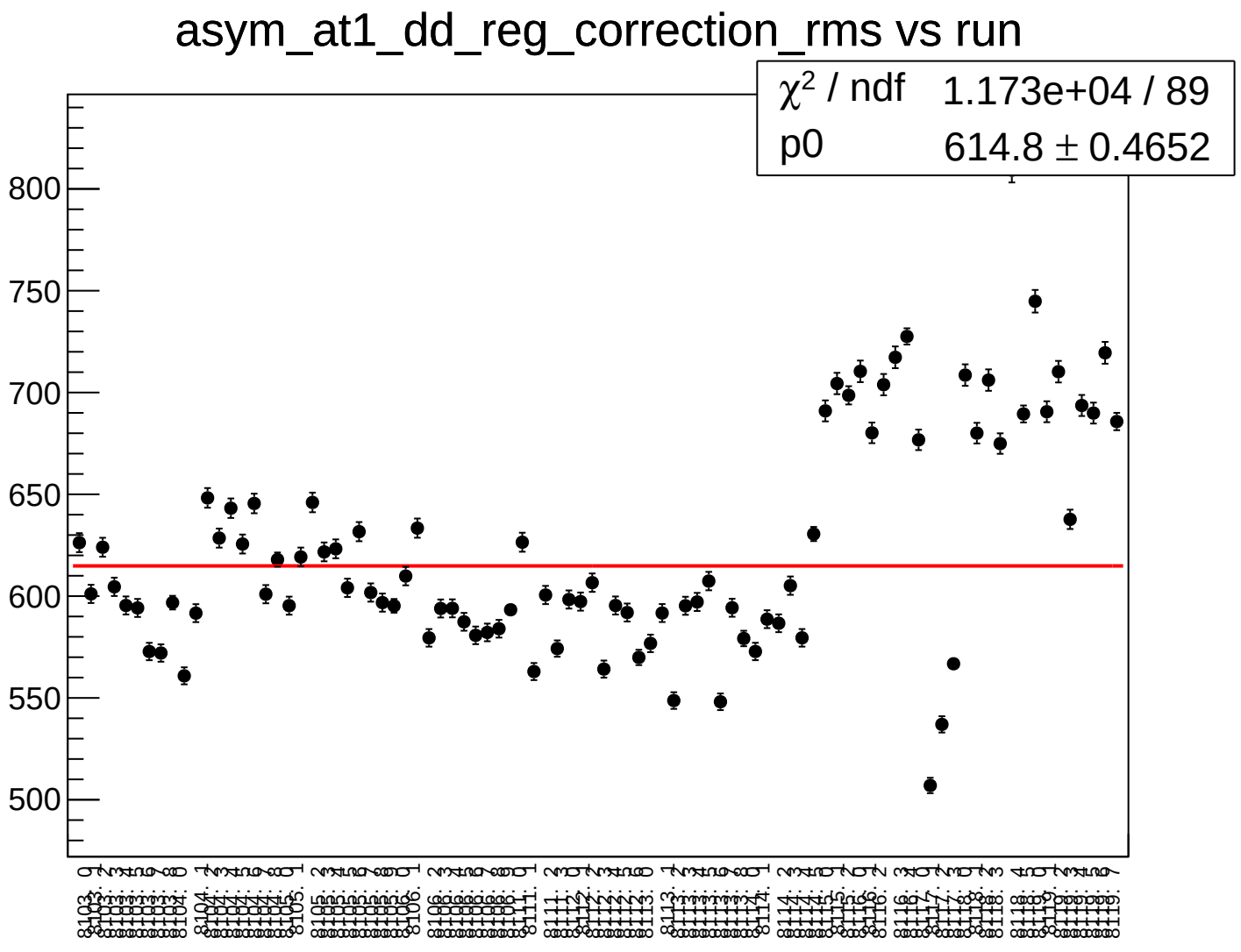

reg_asym_at1_dd_mean vs run
χ² / ndf 77.18 / 89
p0 327.4 ± 1912
pull
Entries 90
Mean −599.3
Std Dev 0

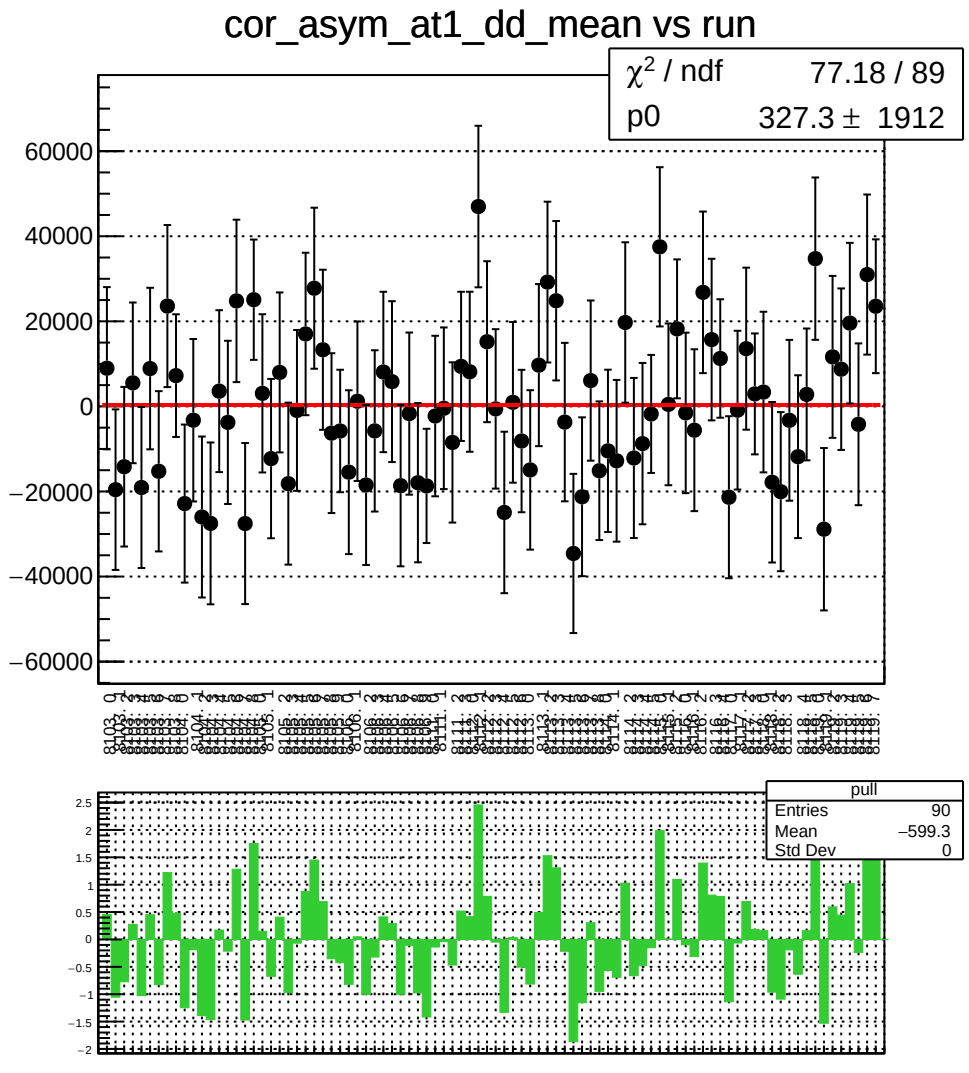

pull1D
Entries 90
Mean −0.006494
Std Dev 0.926

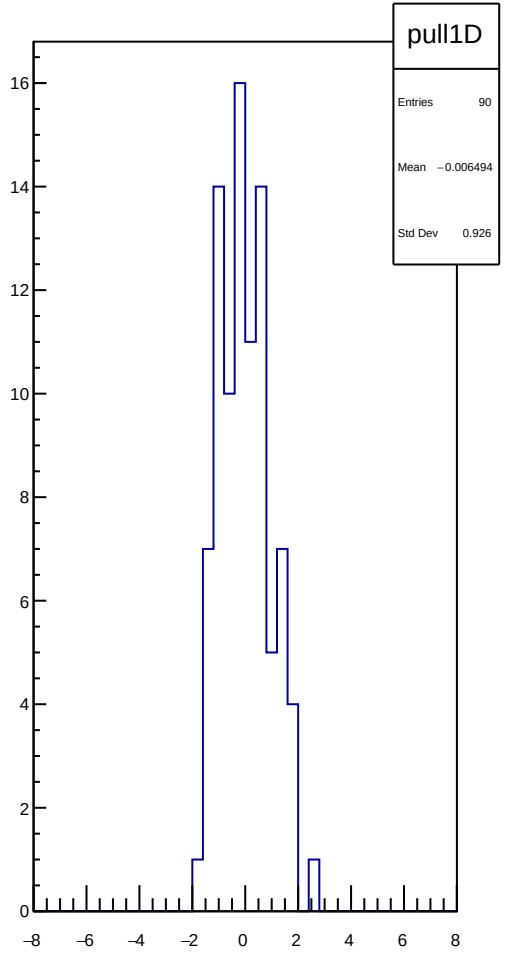

reg_asym_at1_dd_rms vs run
χ^2 / ndf 107.3 / 89
p0 1793 ± 1.352
1840
1820
1800
1780
1760
1740

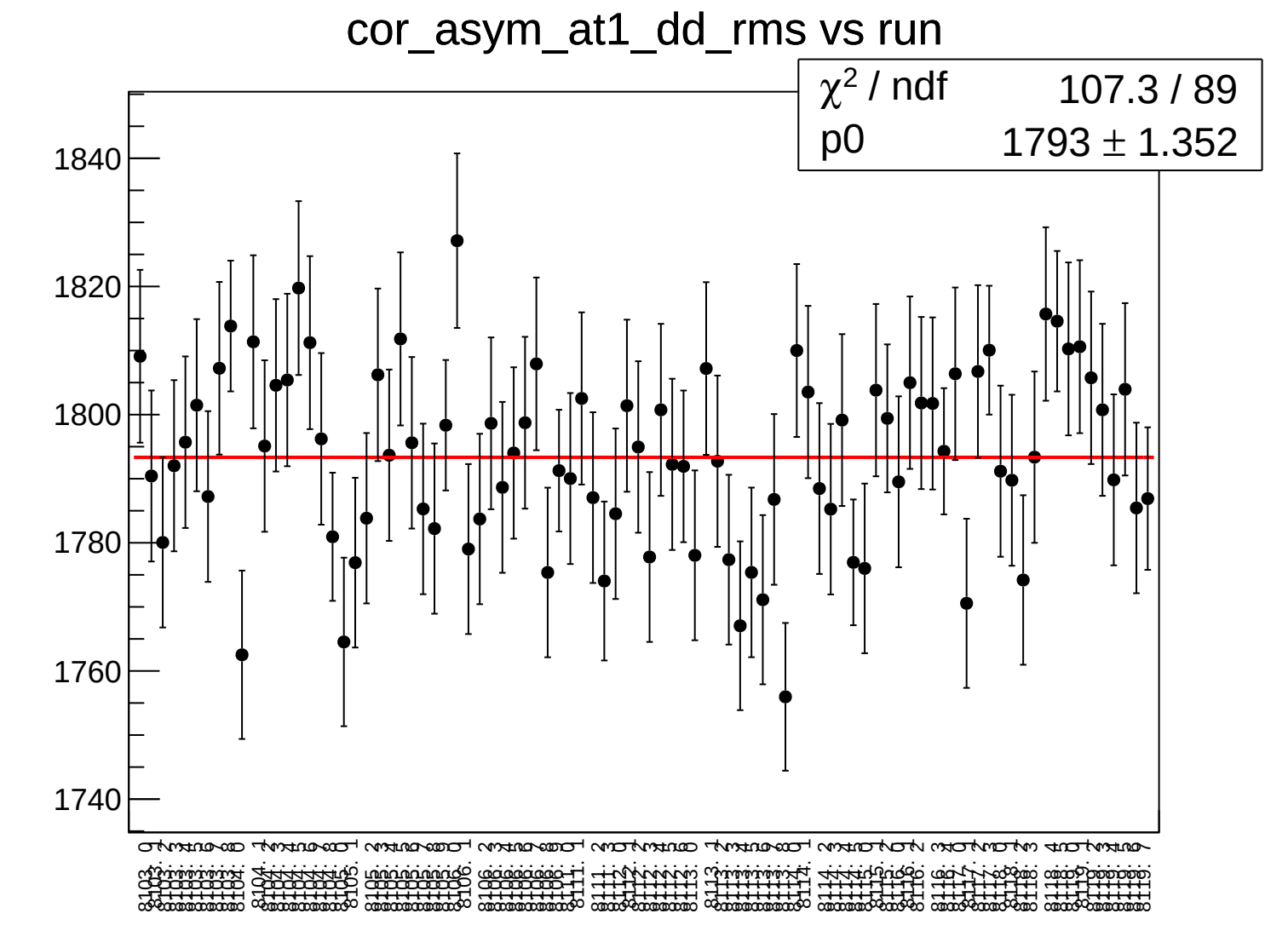

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 91.35 / 89
p0 683.4 ± 657.9
pull
Entries 90
Mean 316.5
Std Dev 0

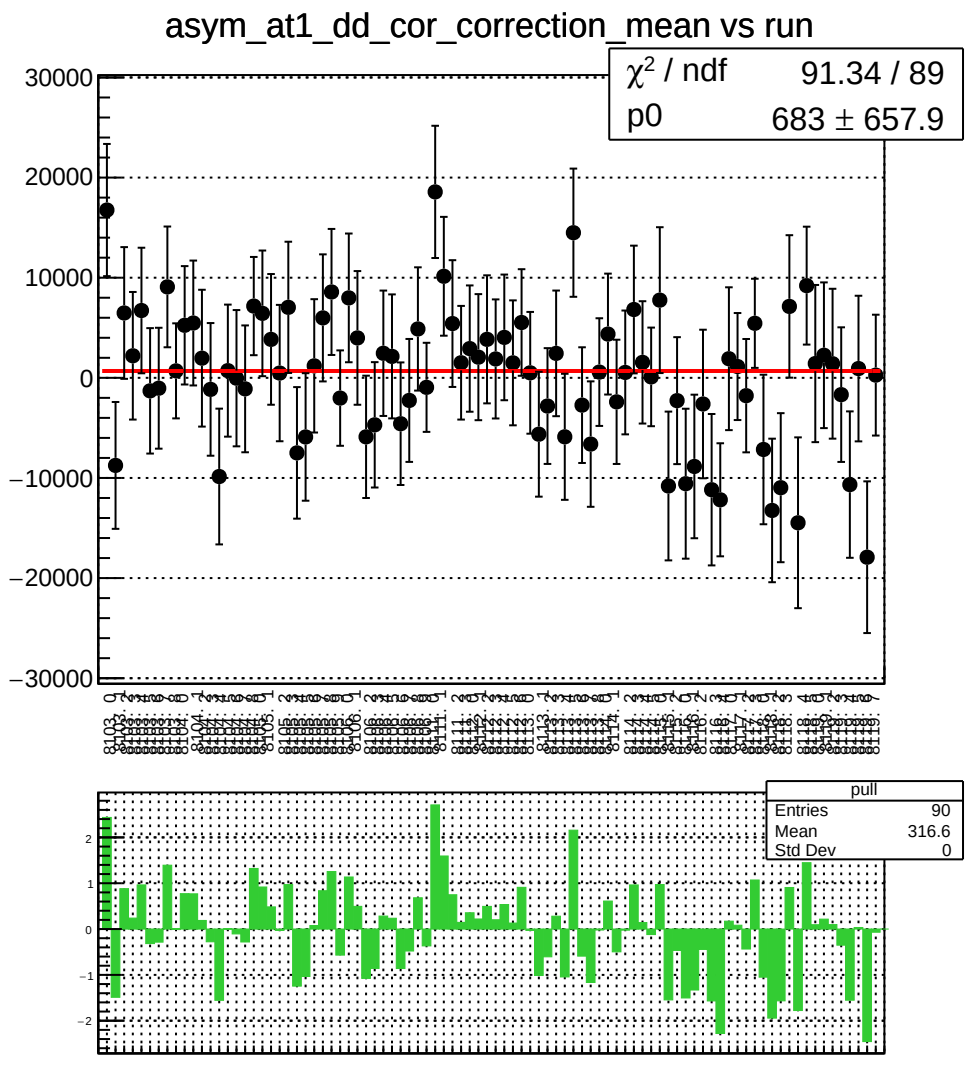

pull1D
Entries 90
Mean −0.0294
Std Dev 1.007

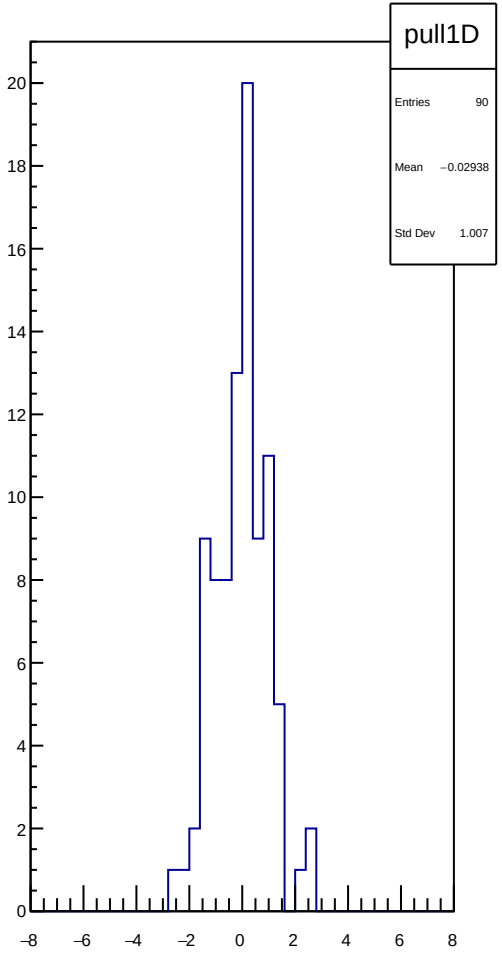

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.173e+04 / 89
p0 614.8 ± 0.4652
800
750
700
650
600
550
500

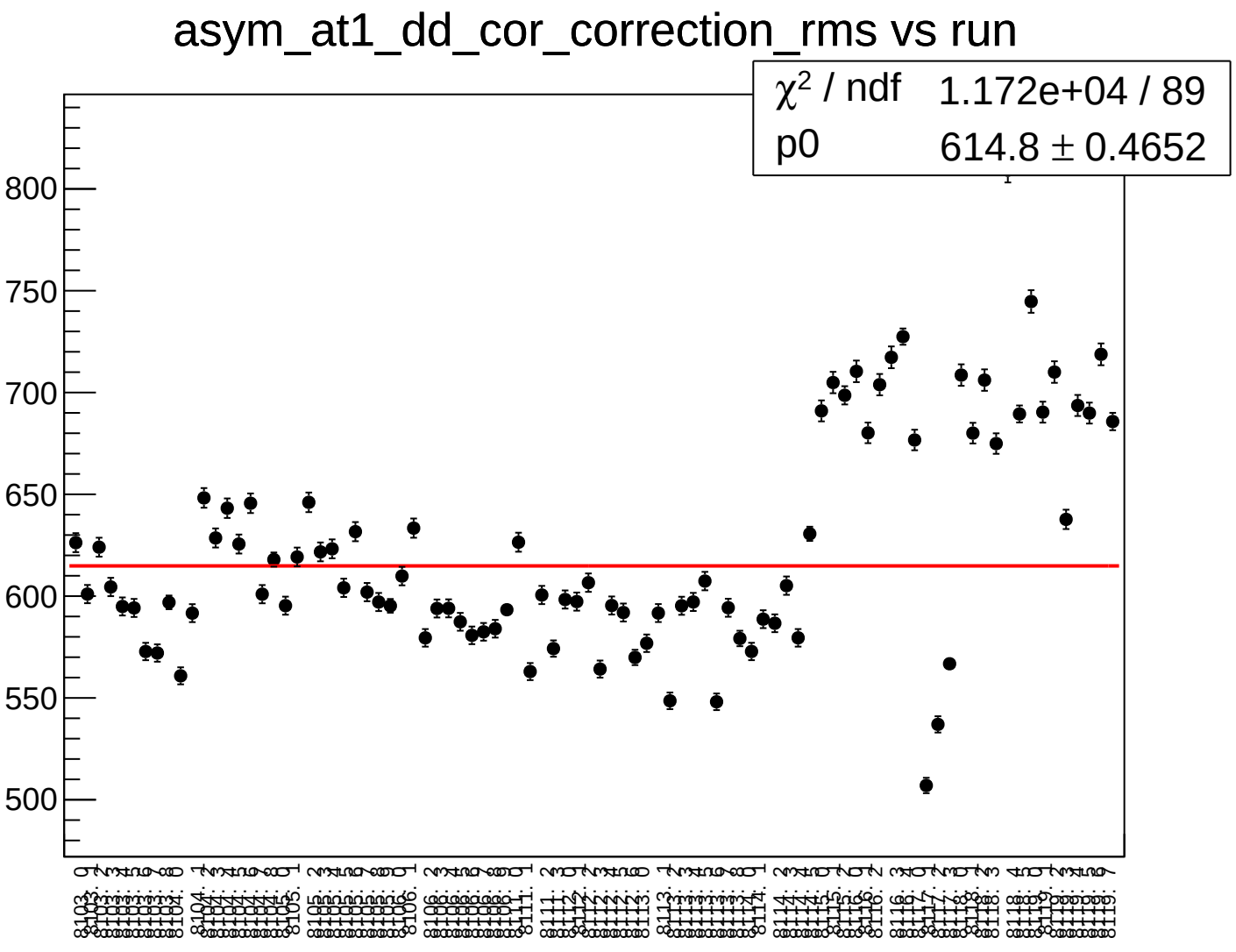

cor_asym_at1_dd_mean vs run
χ² / ndf 77.18 / 89
p0 327.3 ± 1912
pull
Entries 90
Mean −599.3
Std Dev 0

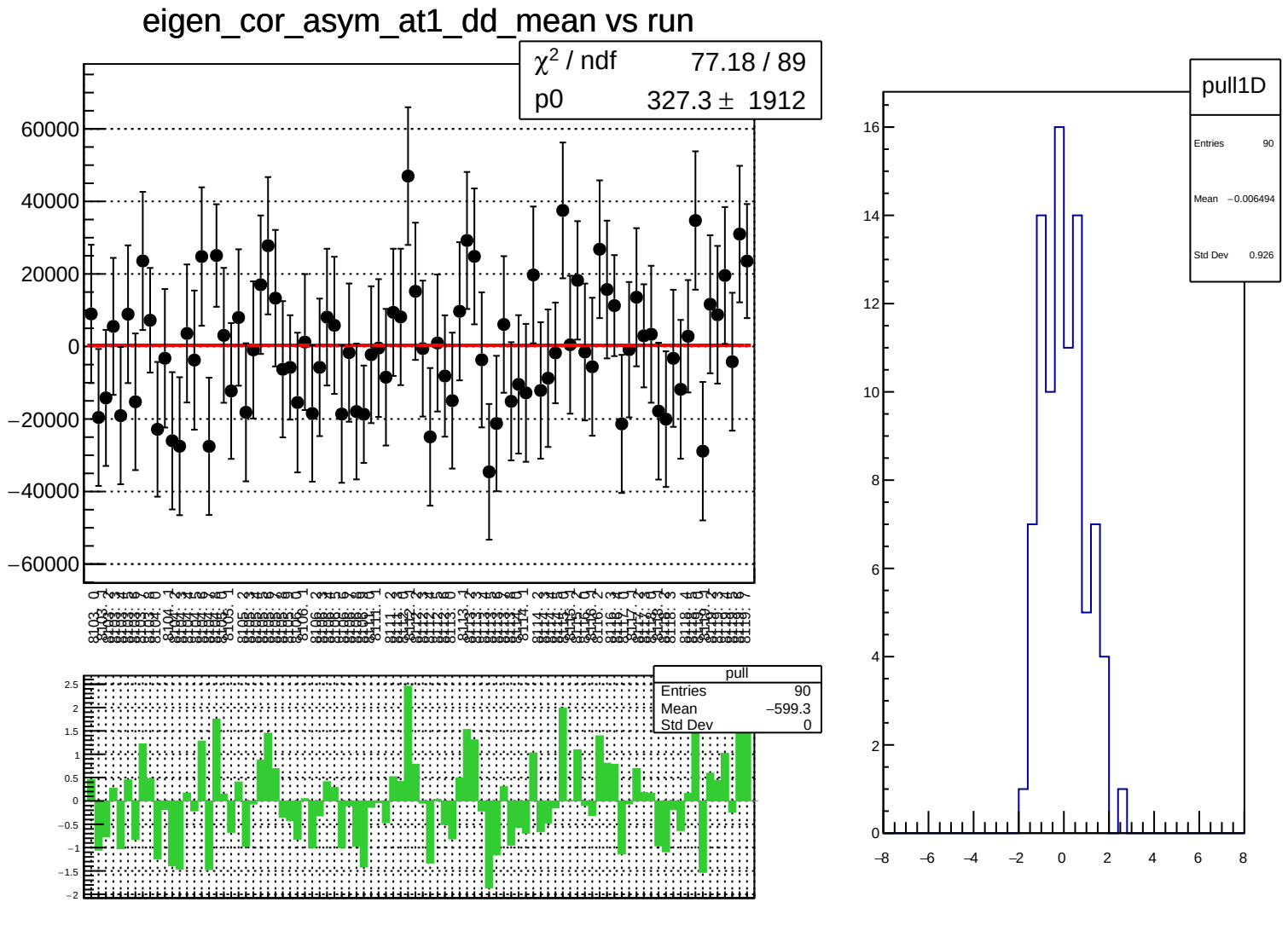

pull1D
Entries 90
Mean −0.006494
Std Dev 0.926

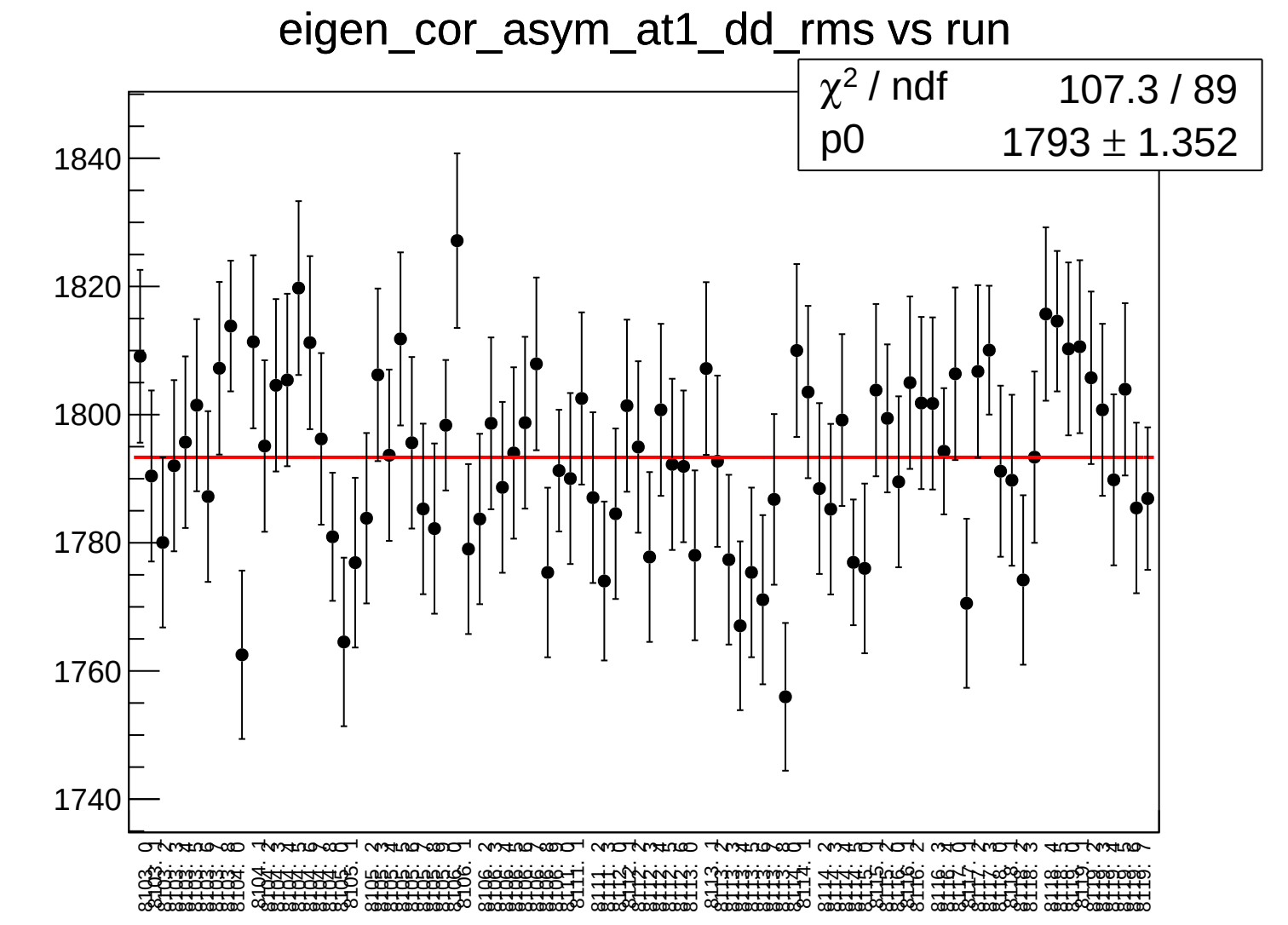

cor_asym_at1_dd_rms vs run
χ^2 / ndf 107.3 / 89
p0 1793 ± 1.352
1840
1820
1800
1780
1760
1740

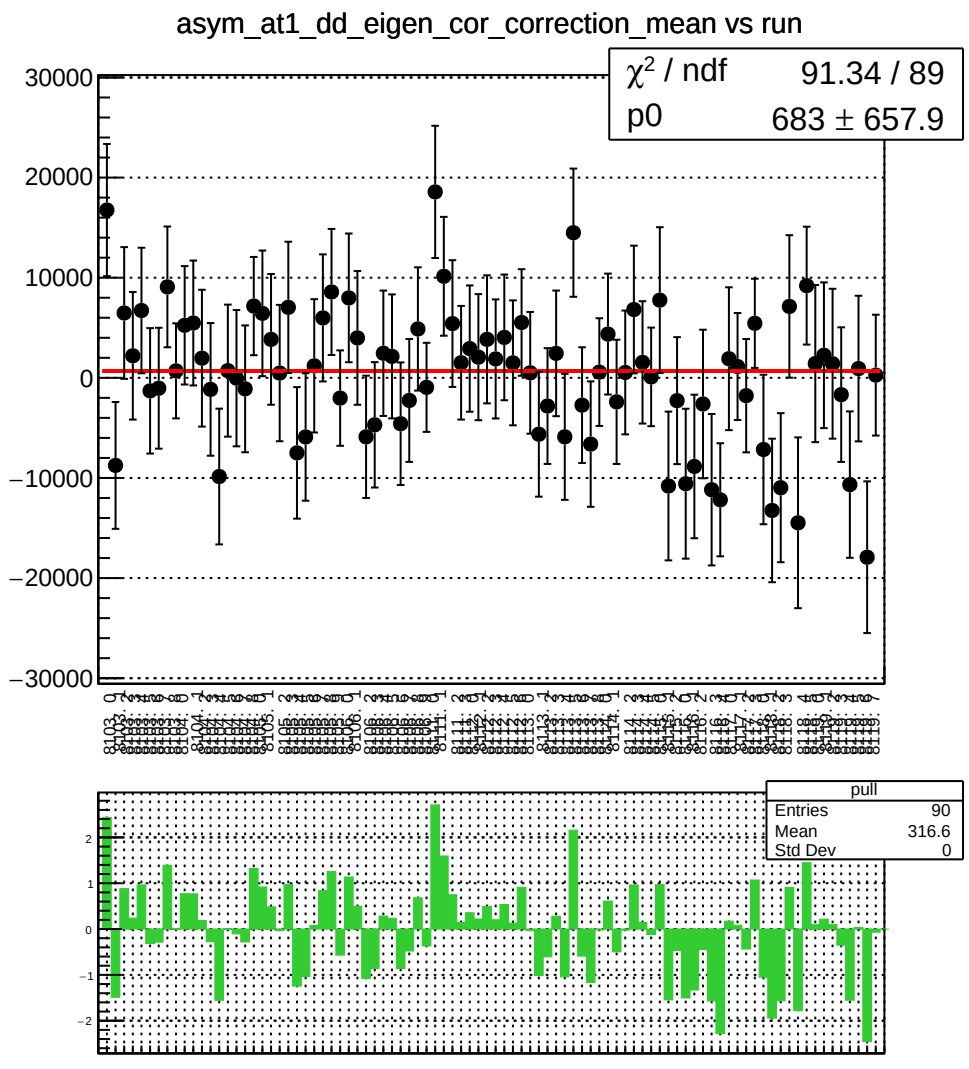

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 91.34 / 89
p0 683 ± 657.9
pull
Entries 90
Mean 316.6
Std Dev 0

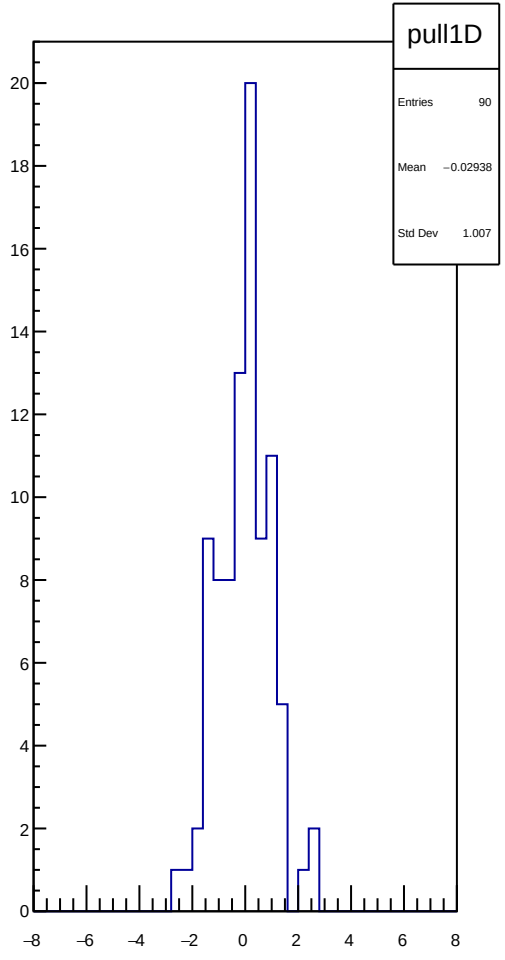

pull1D
Entries 90
Mean −0.02938
Std Dev 1.007

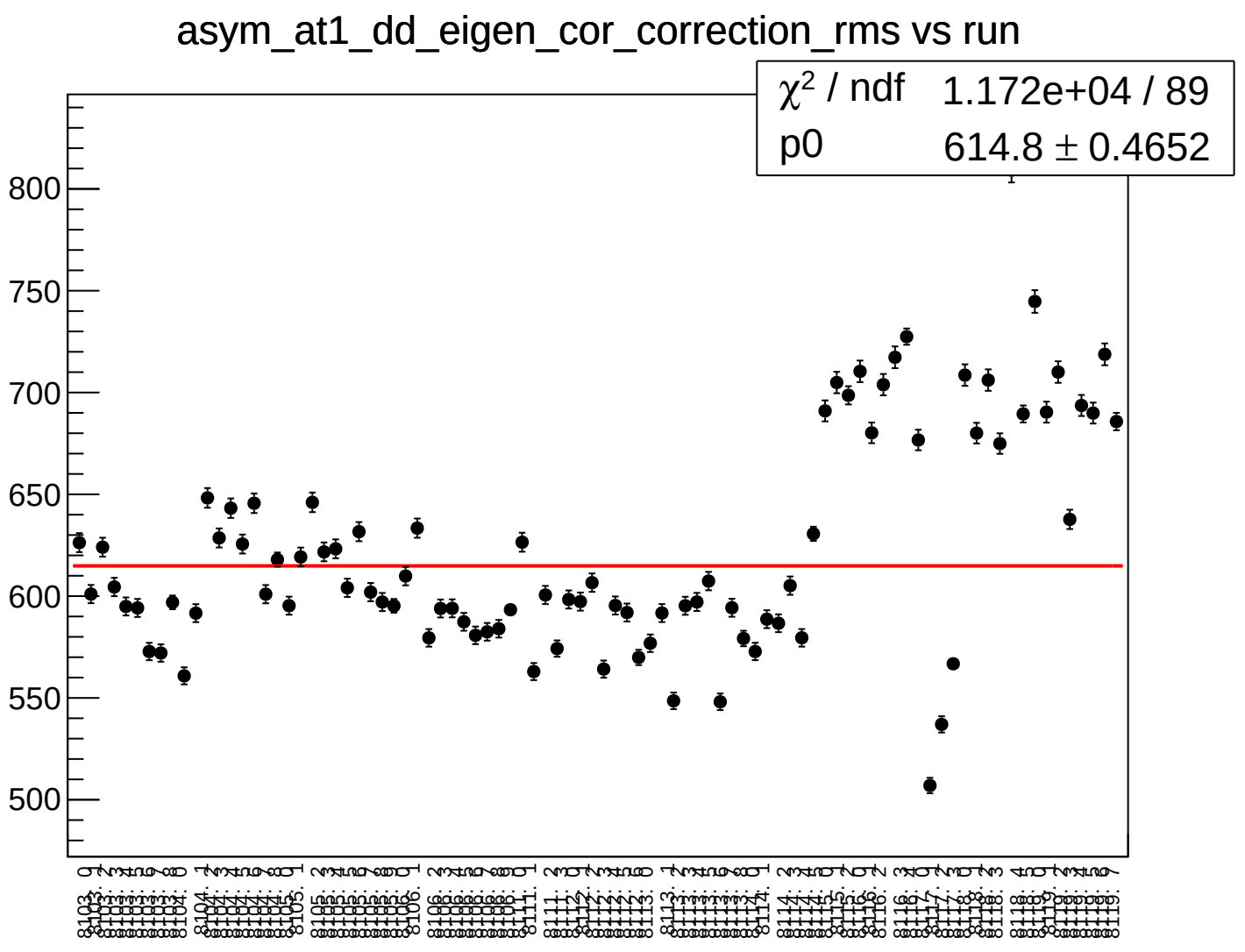

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.172e+04 / 89
p0 614.8 ± 0.4652
800
750
700
650
600
550
500

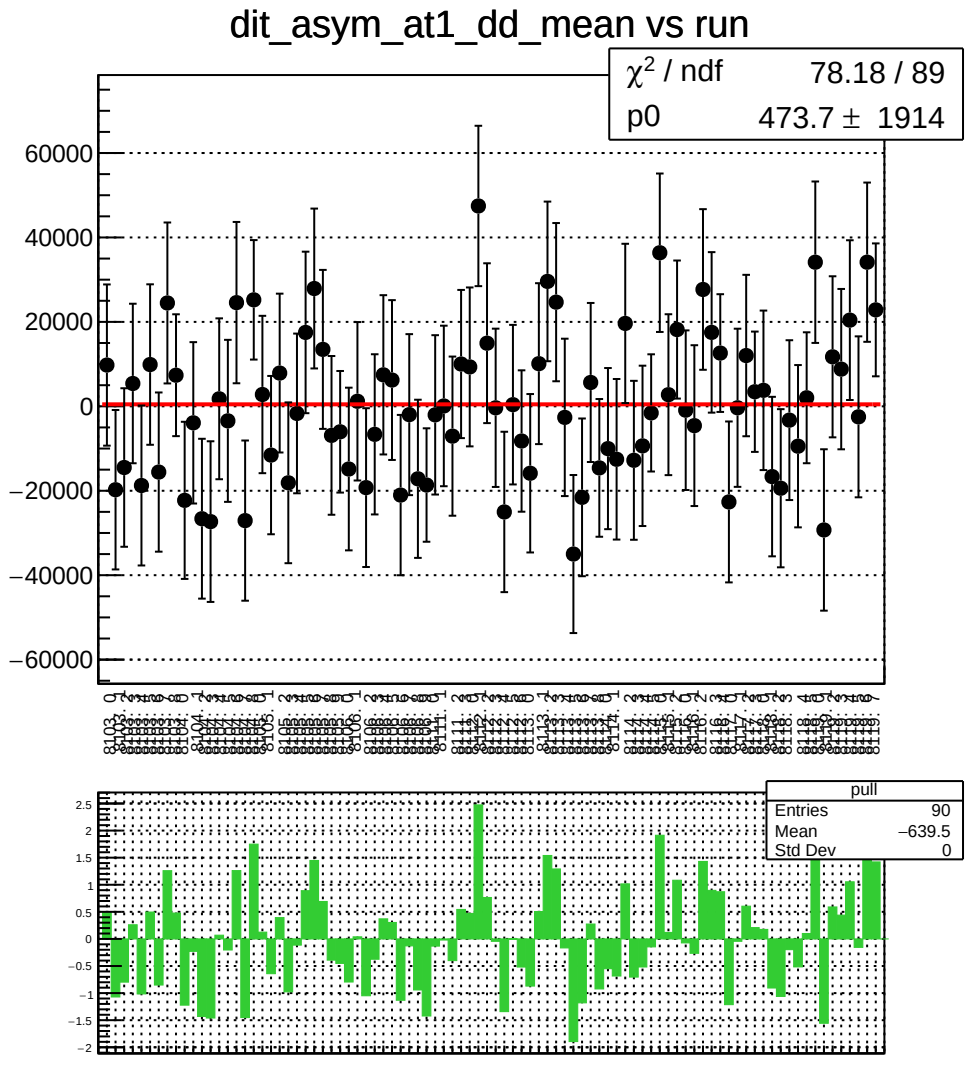

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 77.18 / 89
p0 327.3 ± 1912
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −599.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.006494
Std Dev 0.926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

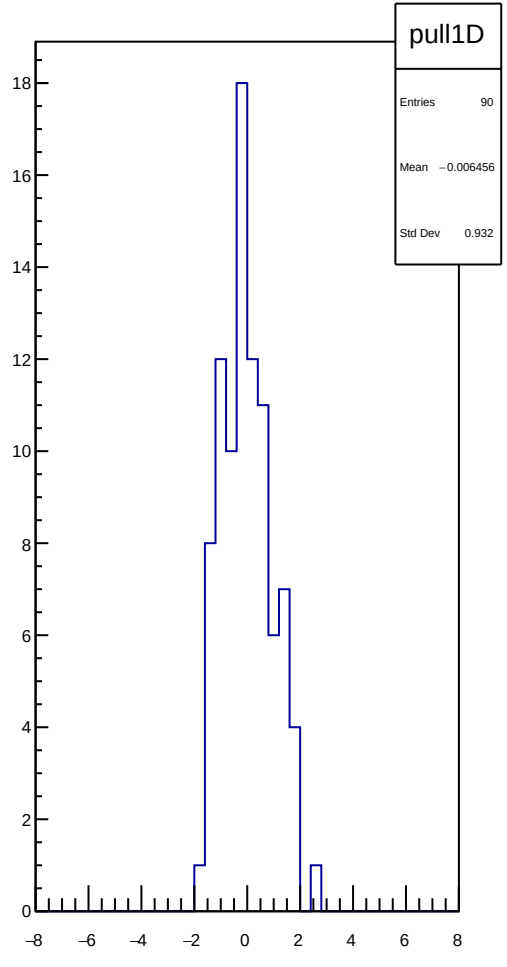

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 107.3 / 89
p0 1793 ± 1.352
1840
1820
1800
1780
1760
1740

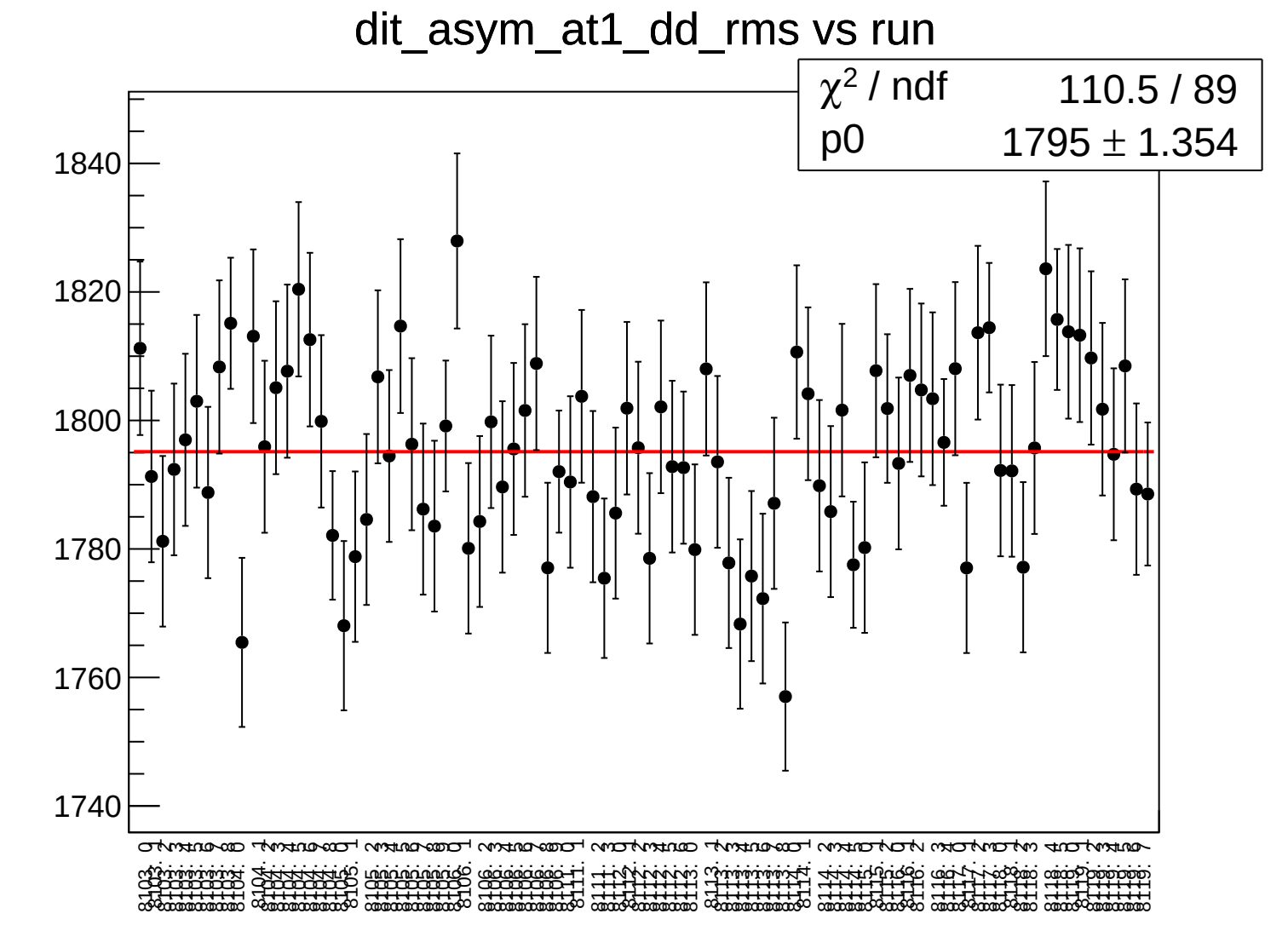

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.34 / 89
p0 683 ± 657.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 316.6
Std Dev 0
2
1
0
−1
−2

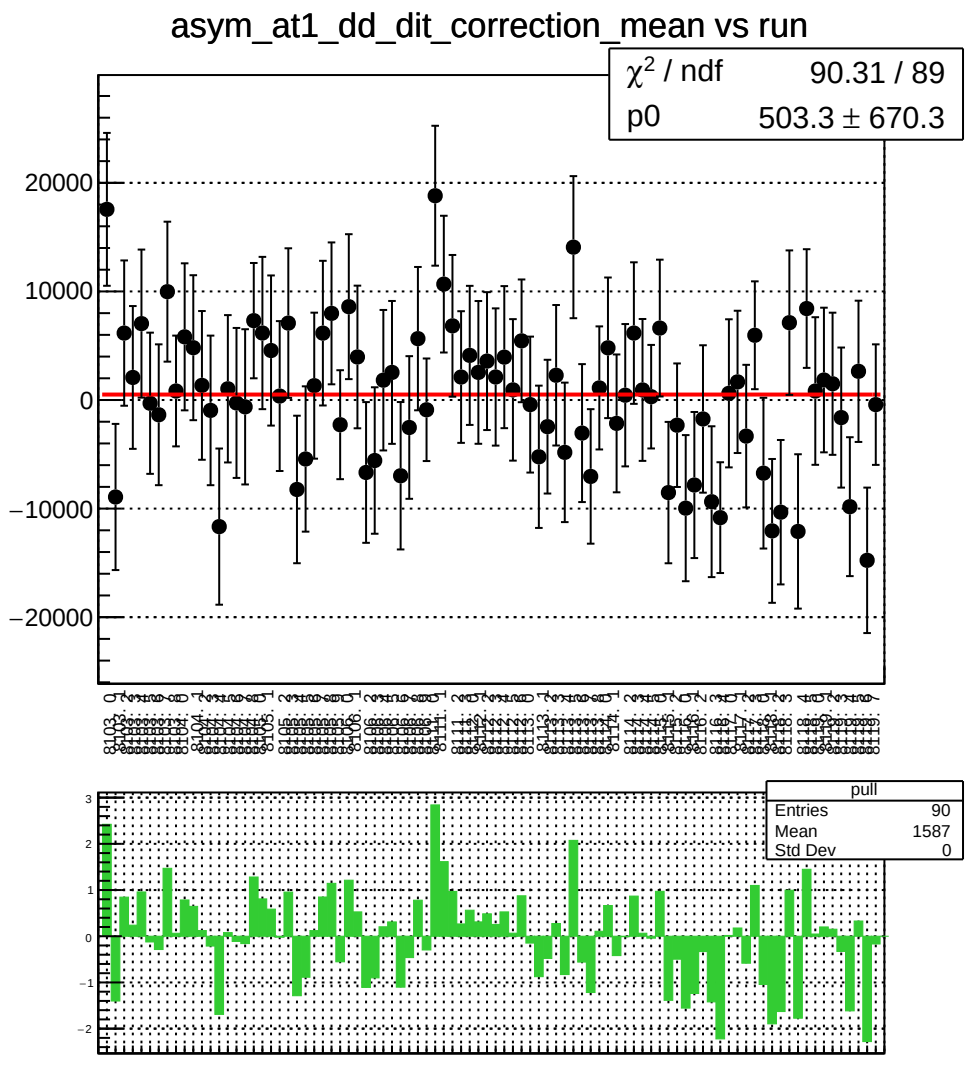

pull1D
Entries 90
Mean −0.02938
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

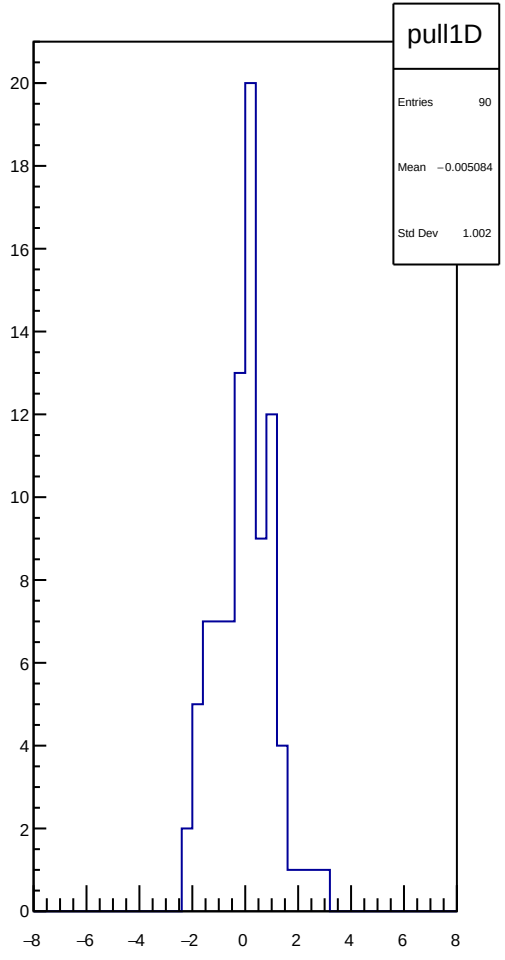

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.172e+04 / 89
p0 614.8 ± 0.4652
800
750
700
650
600
550
500

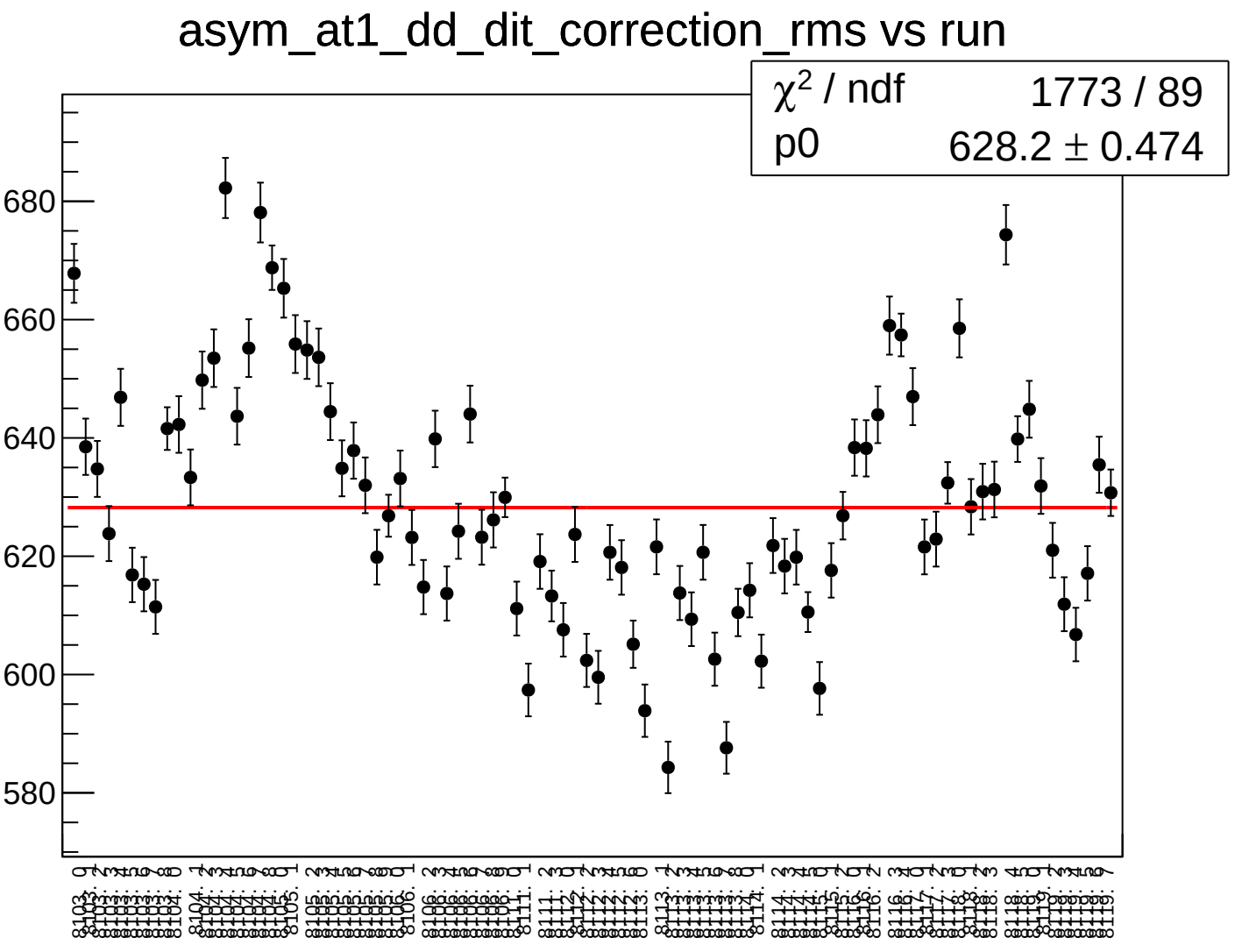

dit_asym_at1_dd_mean vs run
χ² / ndf 78.18 / 89
p0 473.7 ± 1914
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −639.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

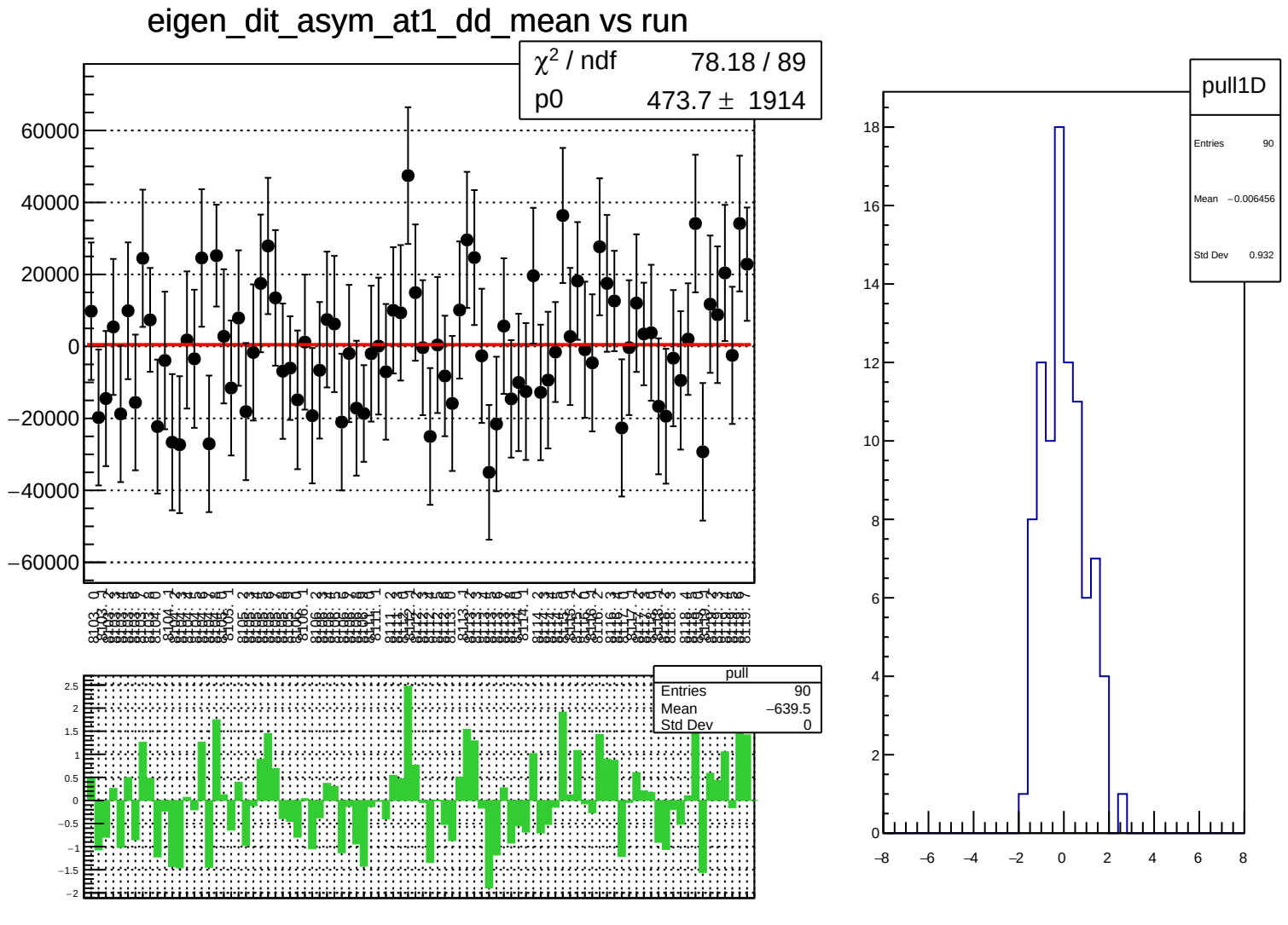

pull1D
Entries 90
Mean −0.006456
Std Dev 0.932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

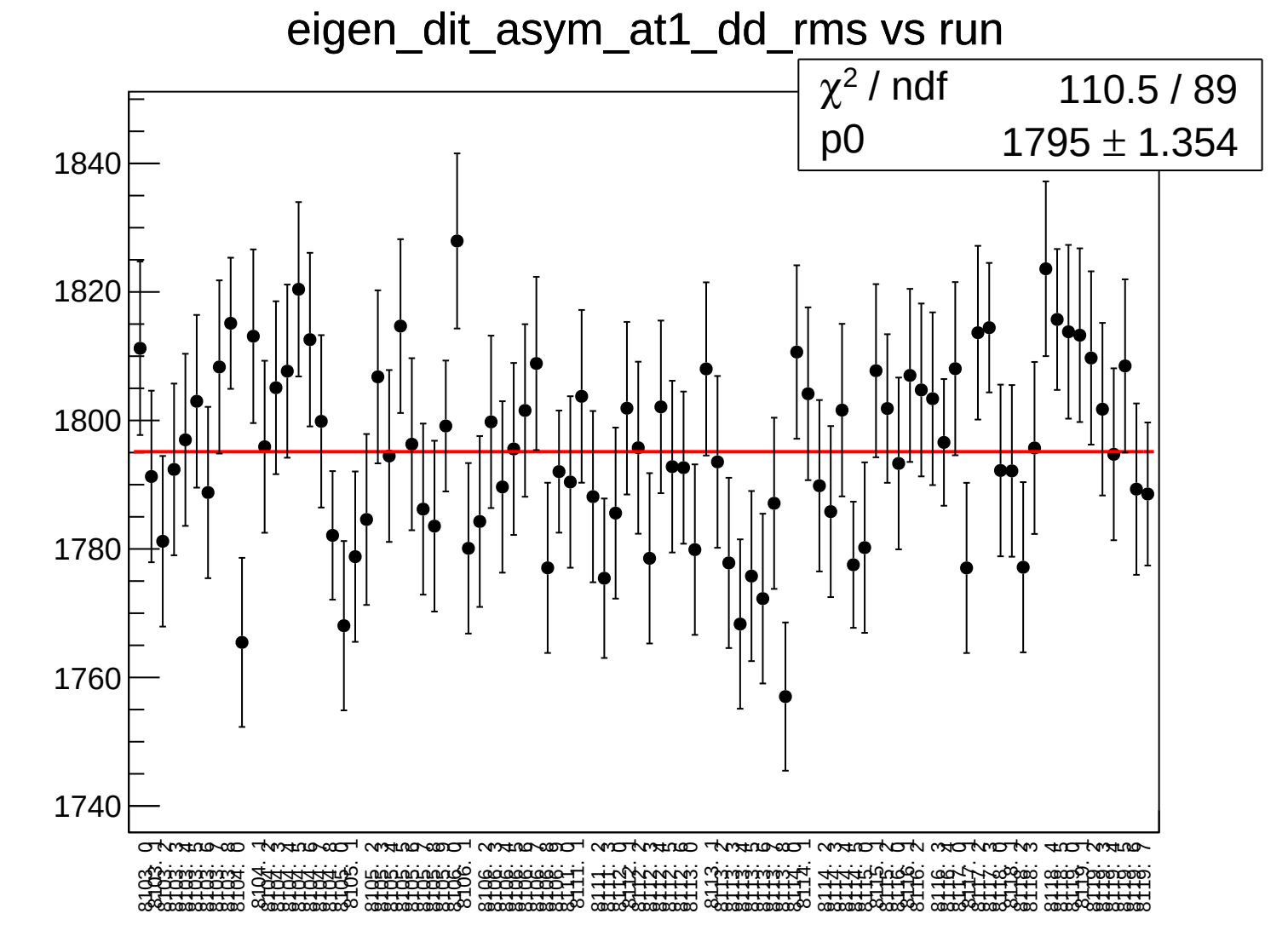

dit_asym_at1_dd_rms vs run
χ^2 / ndf 110.5 / 89
p0 1795 ± 1.354
1840
1820
1800
1780
1760
1740

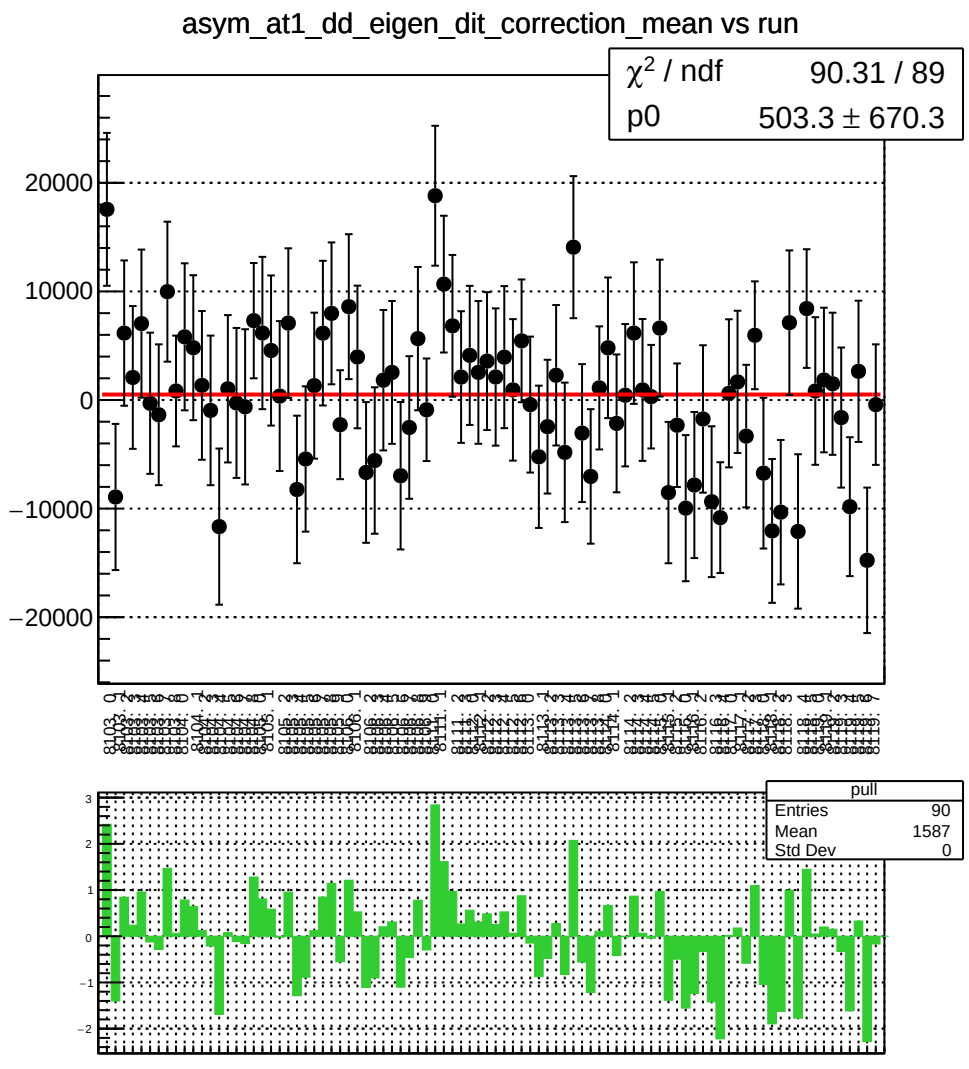

asym_at1_dd_dit_correction_mean vs run
χ^2 / ndf 90.31 / 89
p0 503.3 ± 670.3
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 1587
Std Dev 0
3
2
1
0
−1
−2

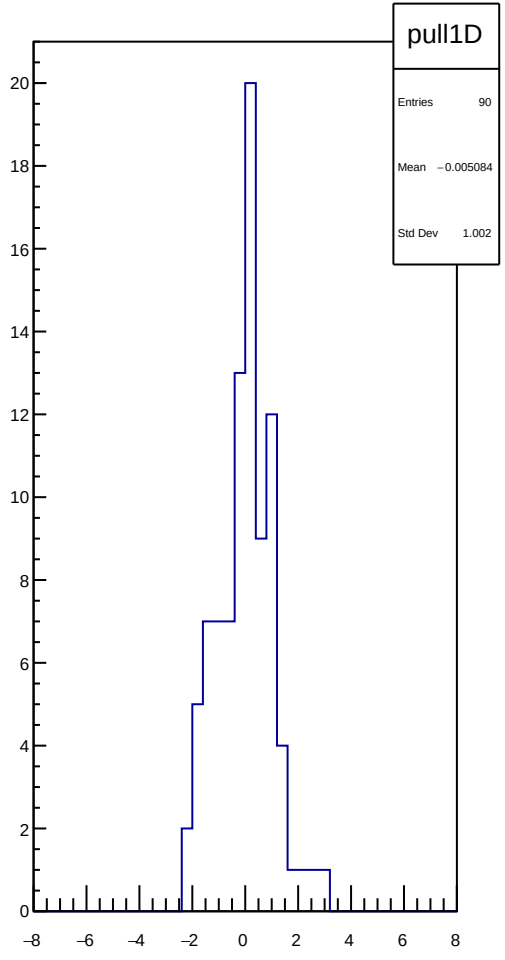

pull1D
Entries 90
Mean −0.005084
Std Dev 1.002
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

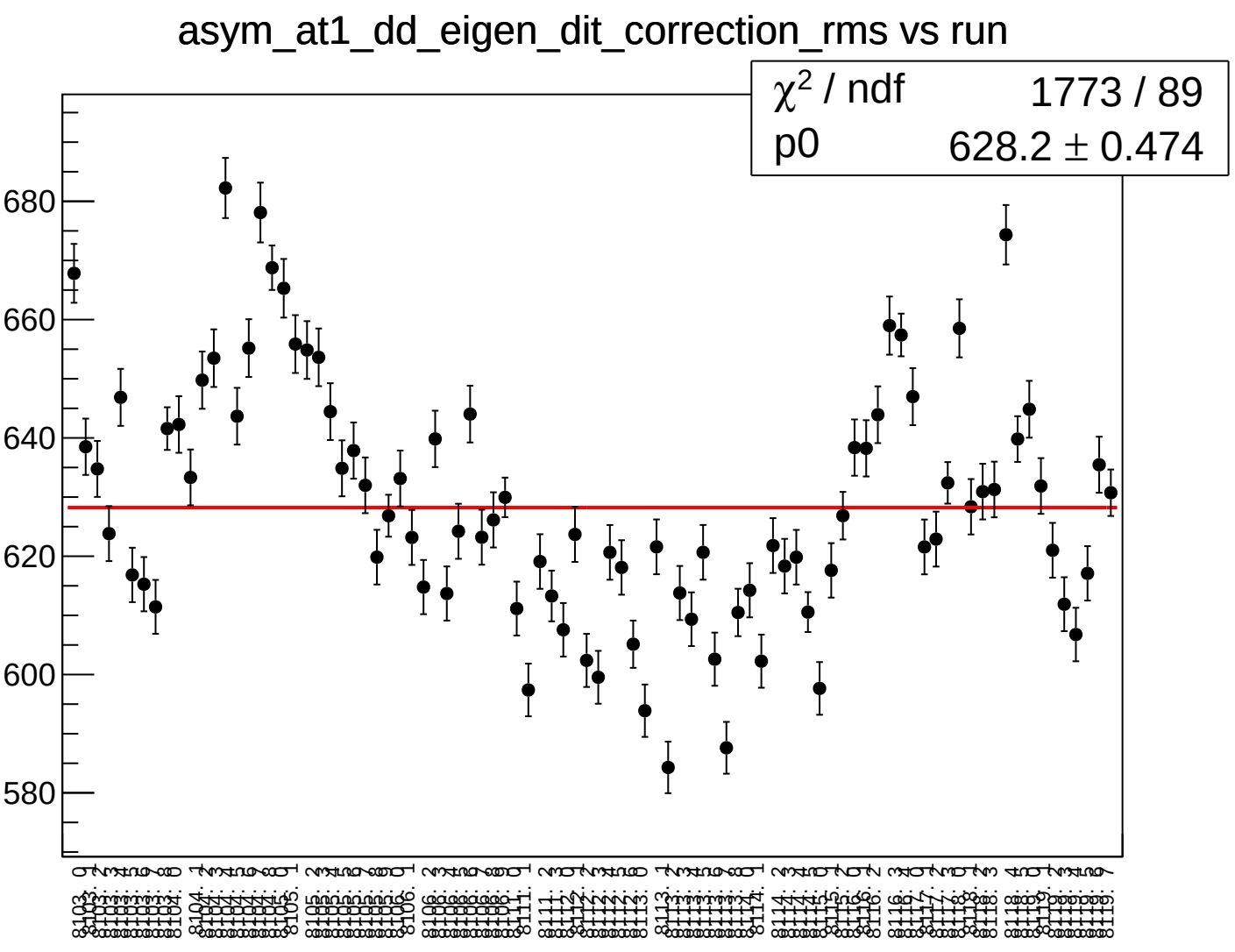

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1773 / 89
p0 628.2 ± 0.474
680
660
640
620
600
580

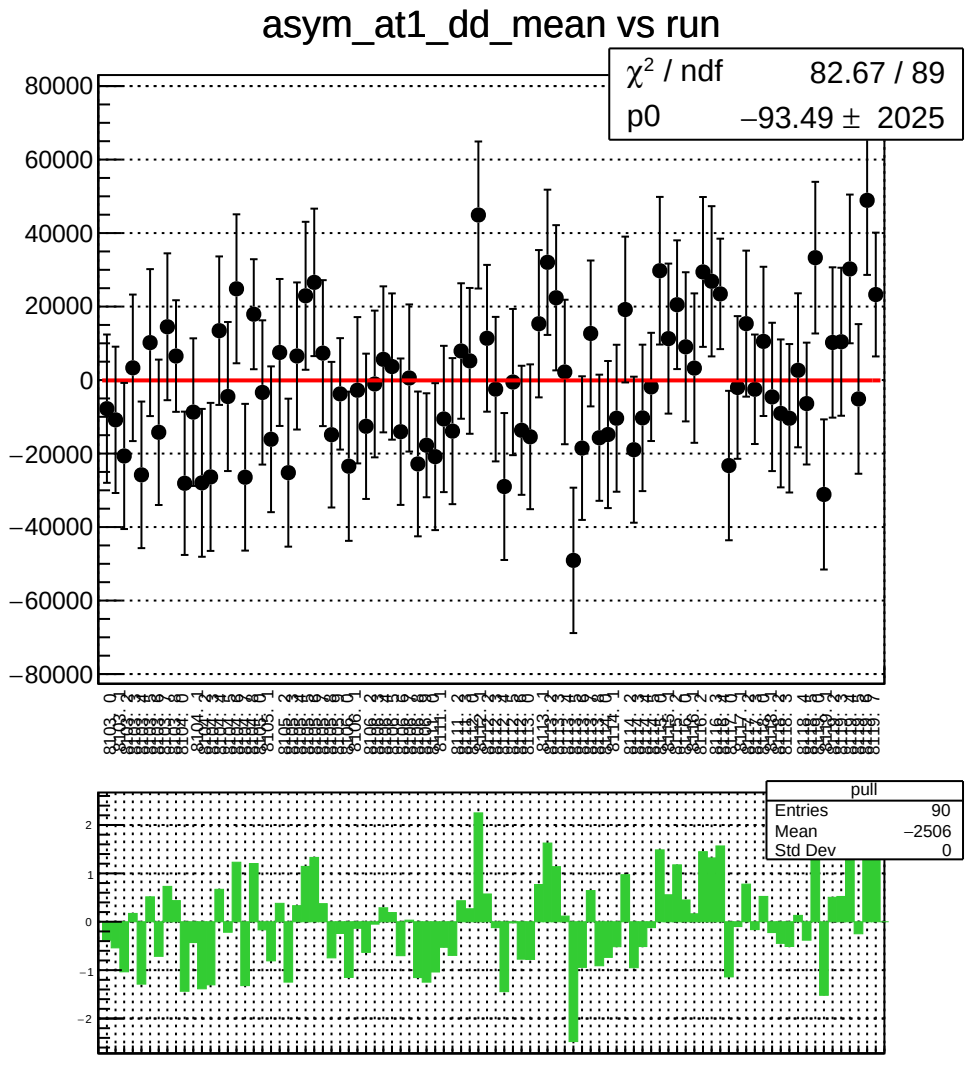

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 78.18 / 89
p0 473.7 ± 1914
pull
Entries 90
Mean −639.5
Std Dev 0
pull1D
Entries 90
Mean −0.006456
Std Dev 0.932

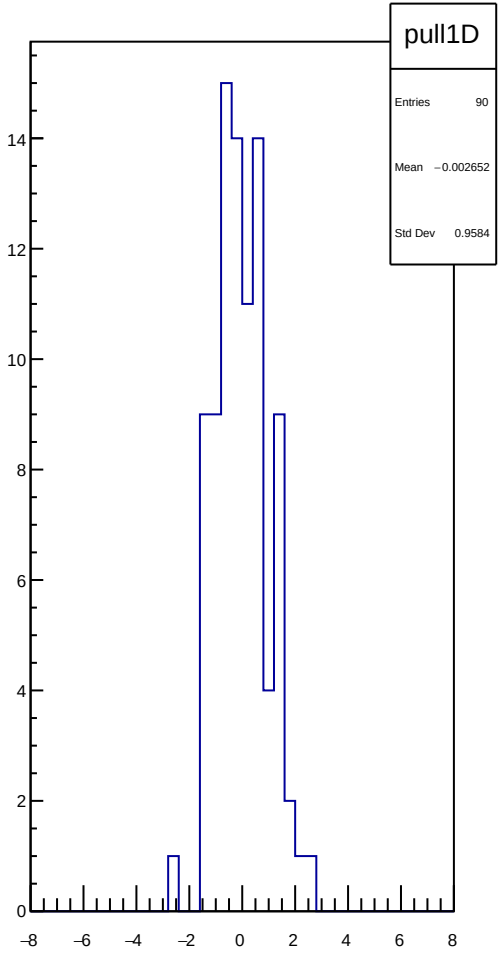

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 110.5 / 89
p0 1795 ± 1.354
1840
1820
1800
1780
1760
1740

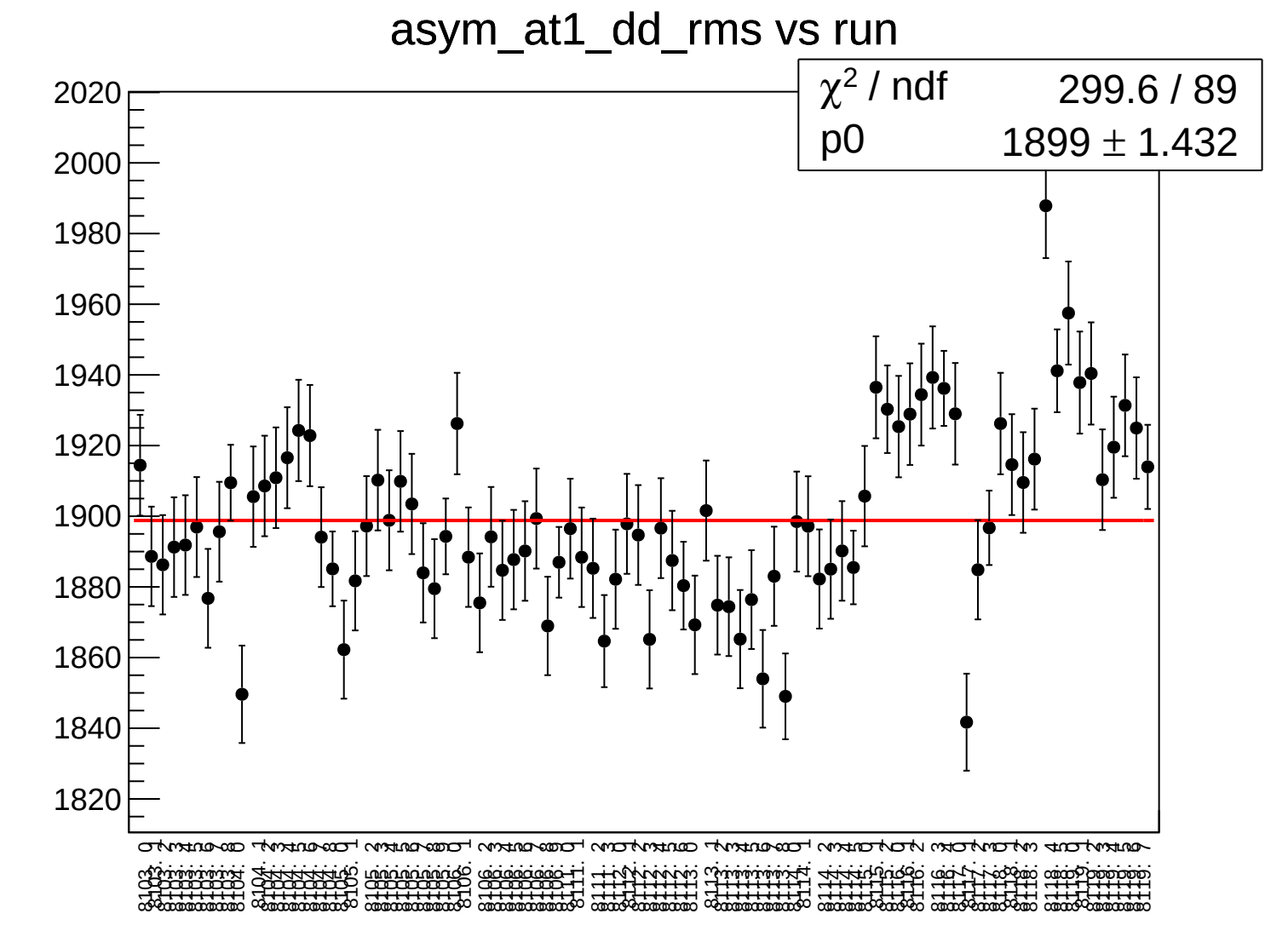

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.31 / 89
p0 503.3 ± 670.3
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 1587
Std Dev 0
3
2
1
0
−1
−2

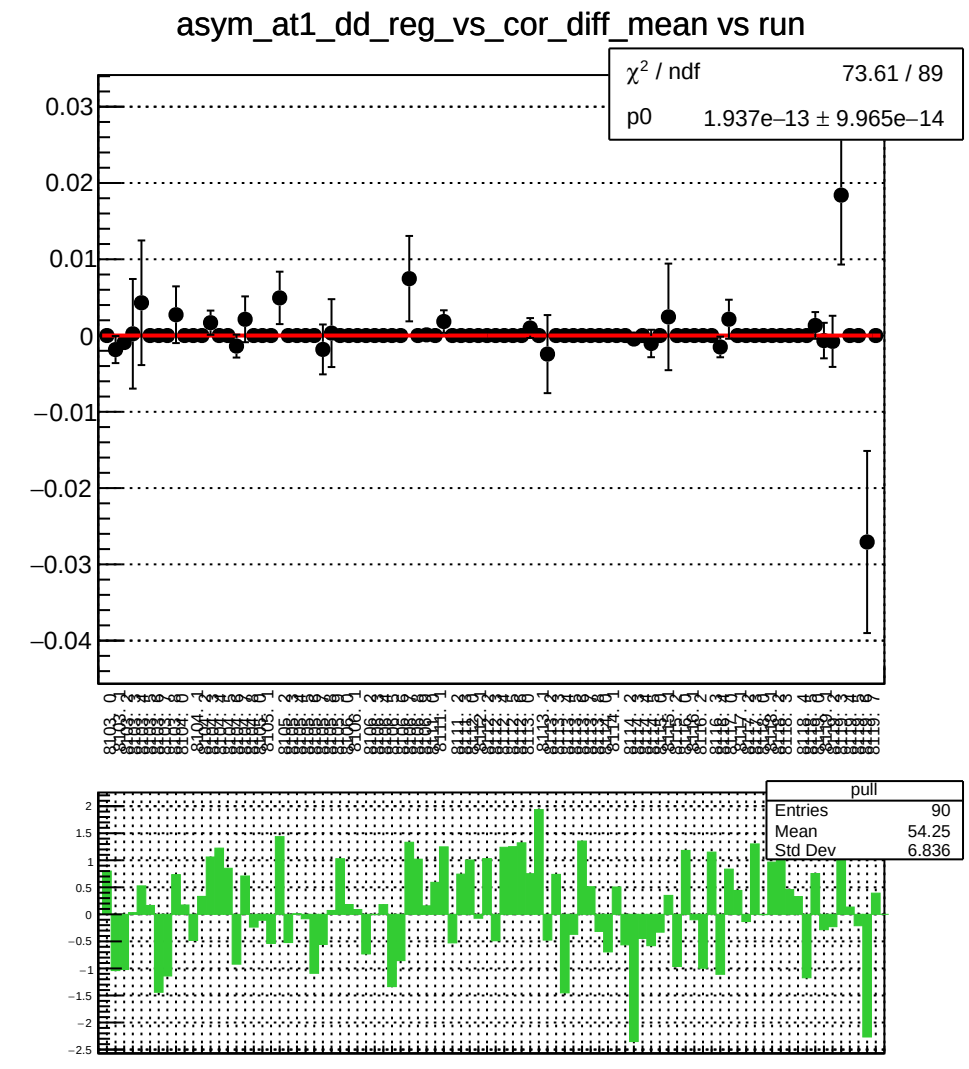

pull1D
Entries 90
Mean −0.005084
Std Dev 1.002
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

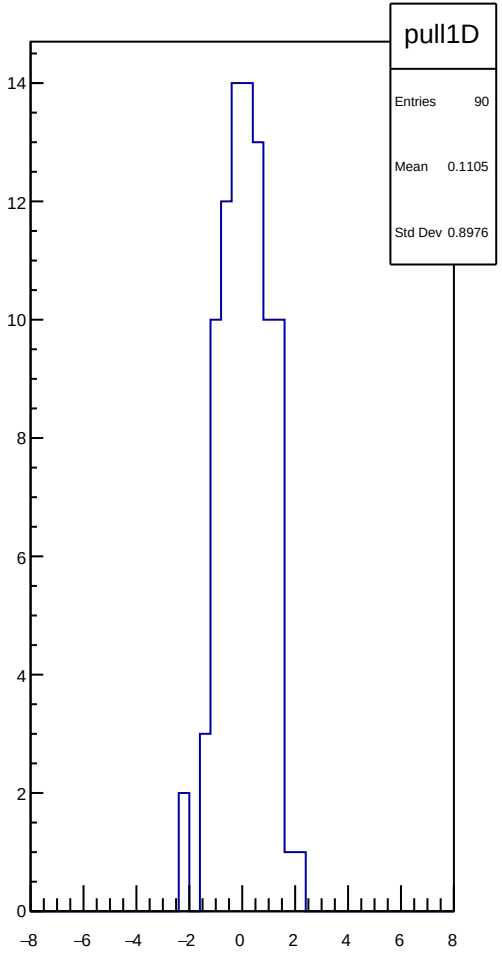

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1773 / 89
p0 628.2 ± 0.474
680
660
640
620
600
580

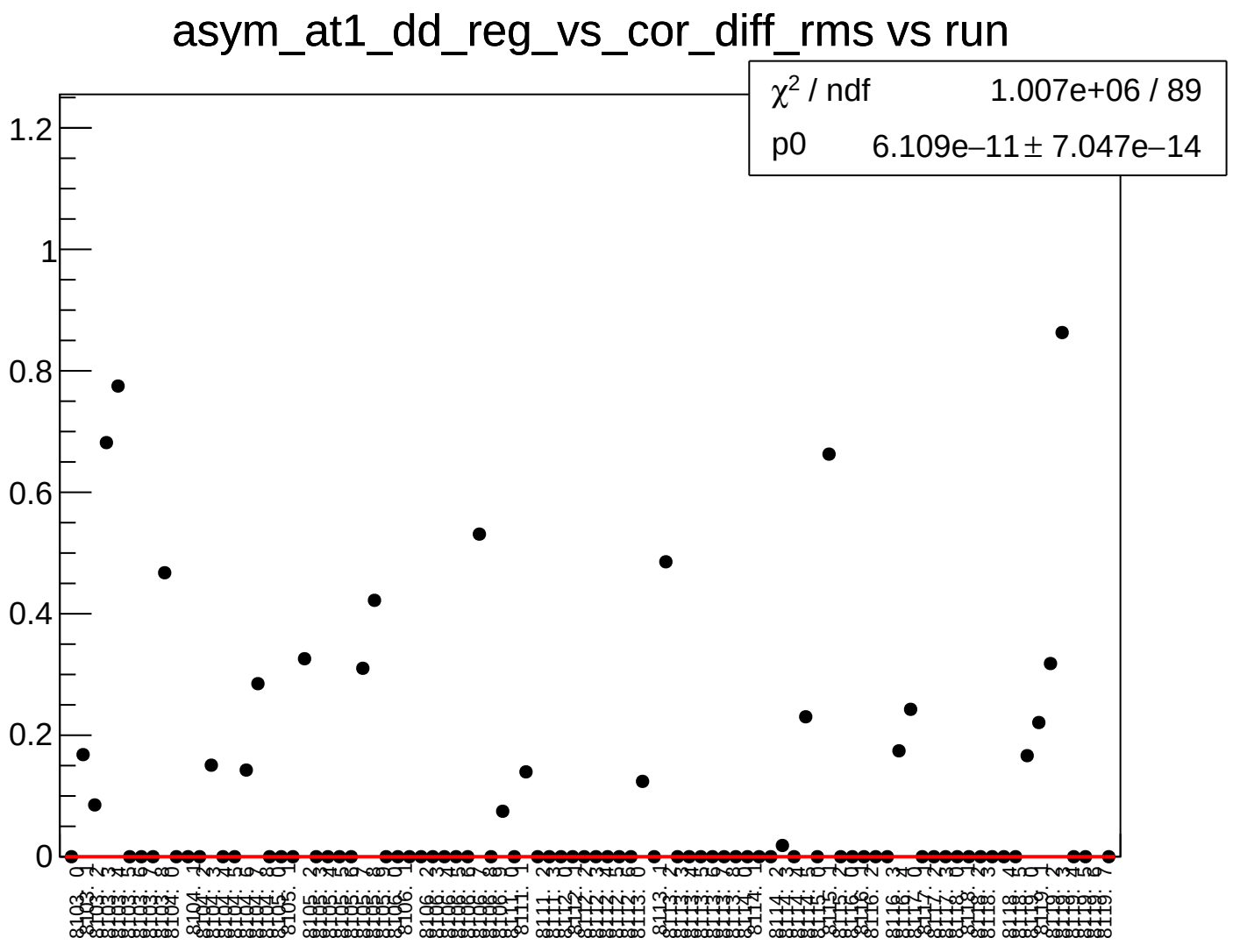

asym_at1_dd_mean vs run
χ² / ndf 82.67 / 89
p0 −93.49 ± 2025
pull
Entries 90
Mean −2506
Std Dev 0

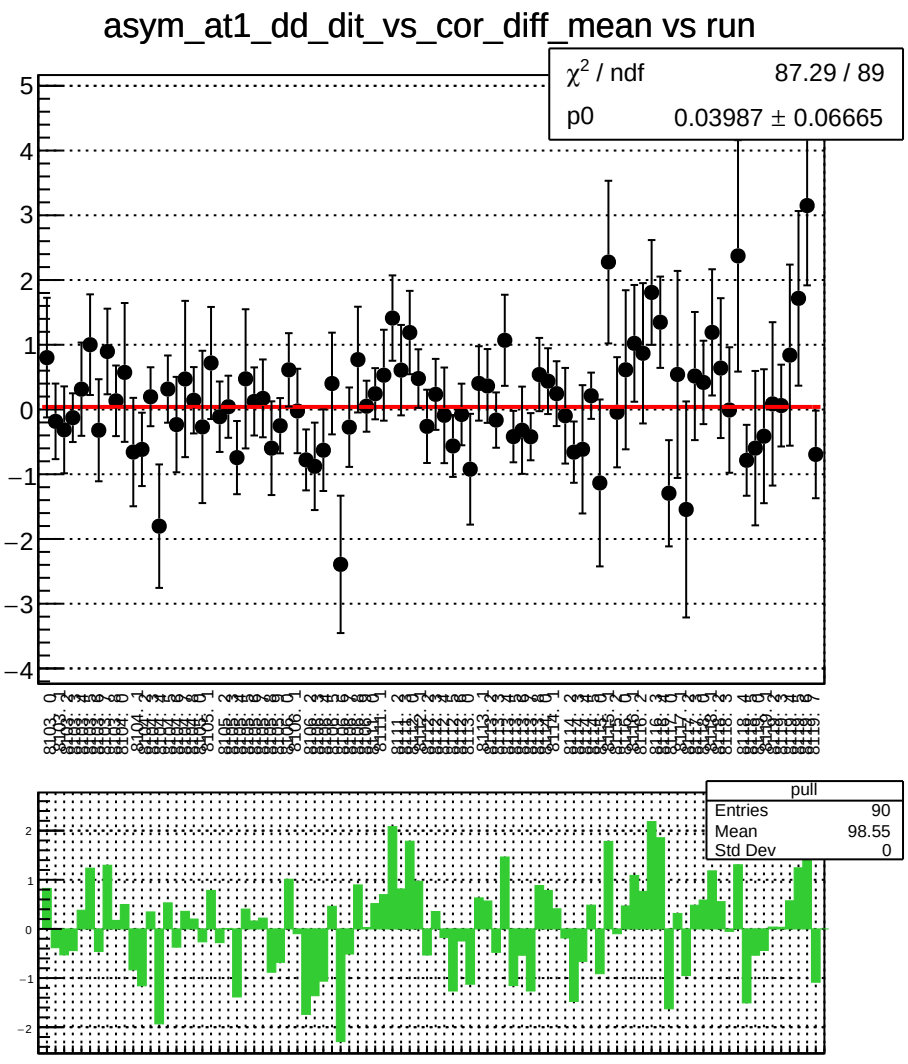

pull1D
Entries 90
Mean −0.002652
Std Dev 0.9584

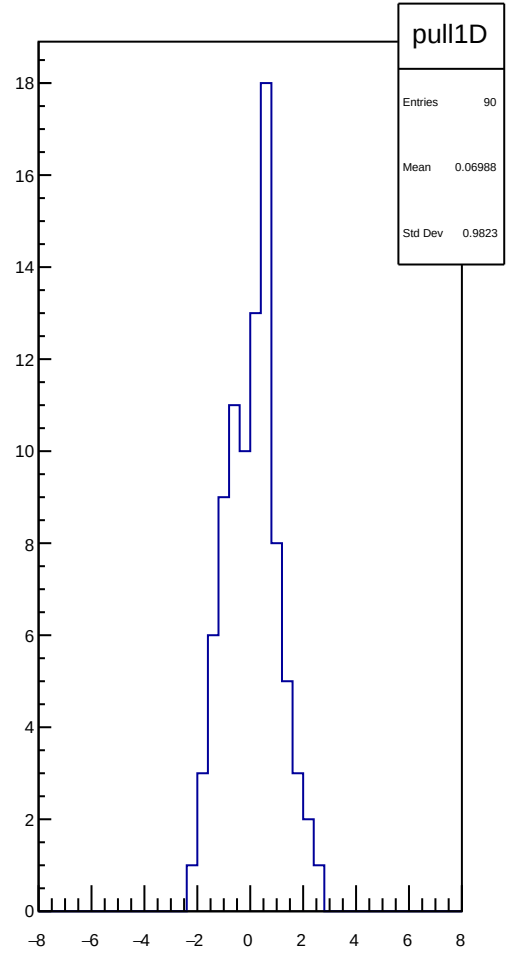

asym_at1_dd_rms vs run
χ^2 / ndf 299.6 / 89
p0 1899 ± 1.432
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

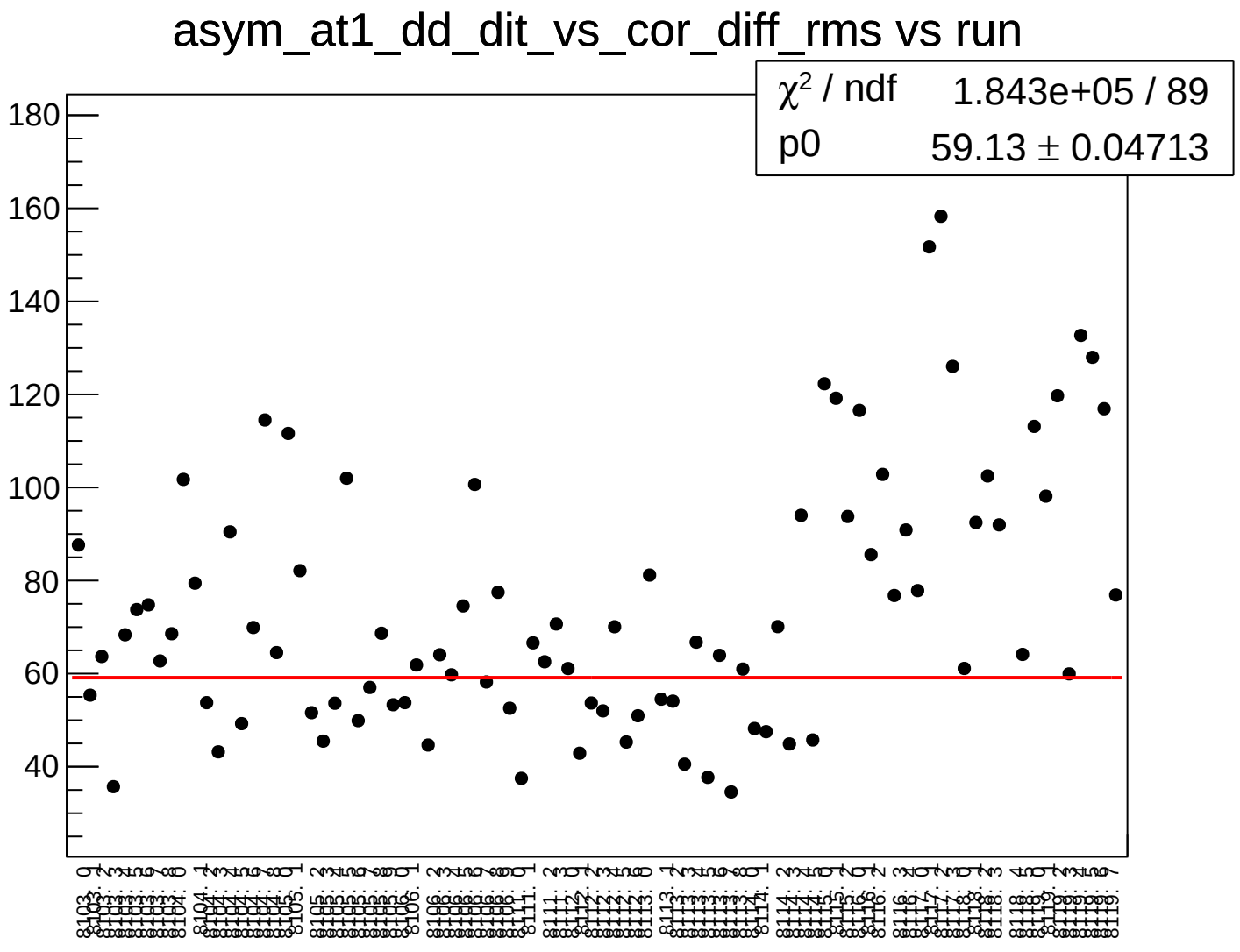

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.61 / 89
p0 1.937e−13 ± 9.965e−14
pull
Entries 90
Mean 54.25
Std Dev 6.836

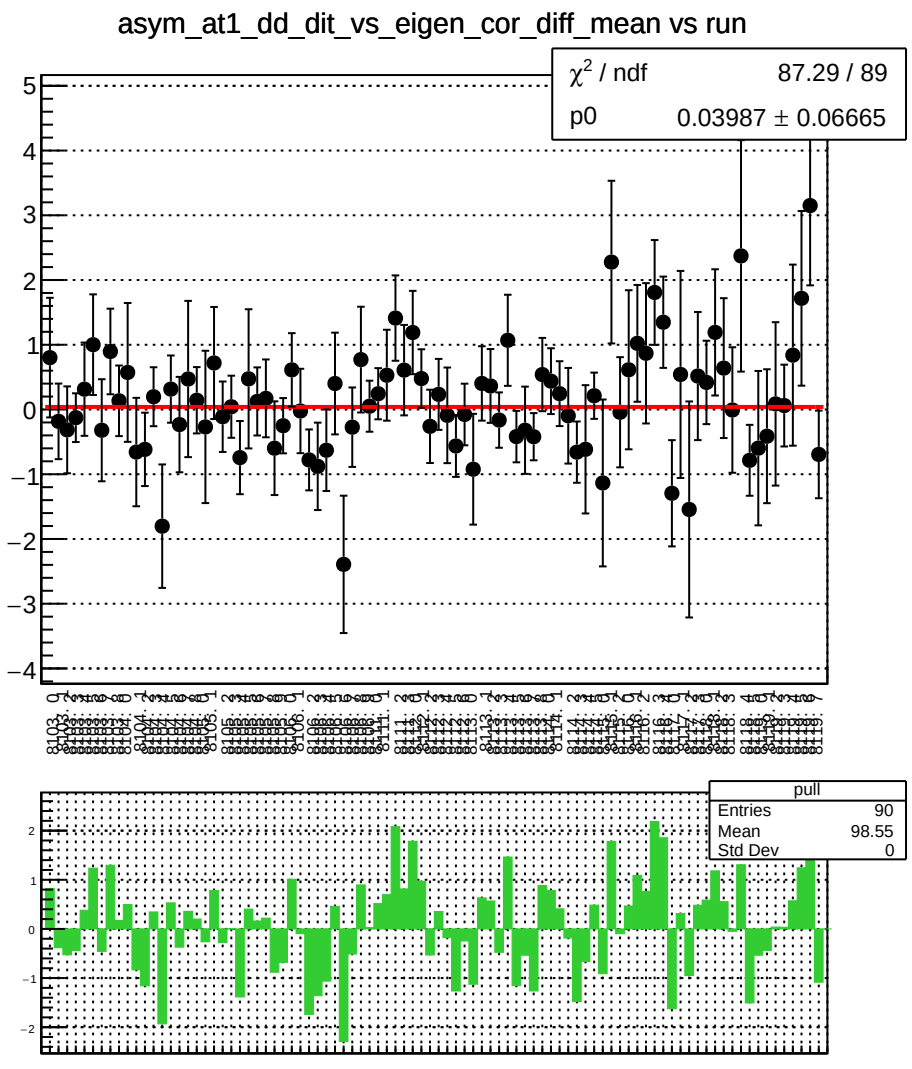

pull1D
Entries 90
Mean 0.1105
Std Dev 0.8976

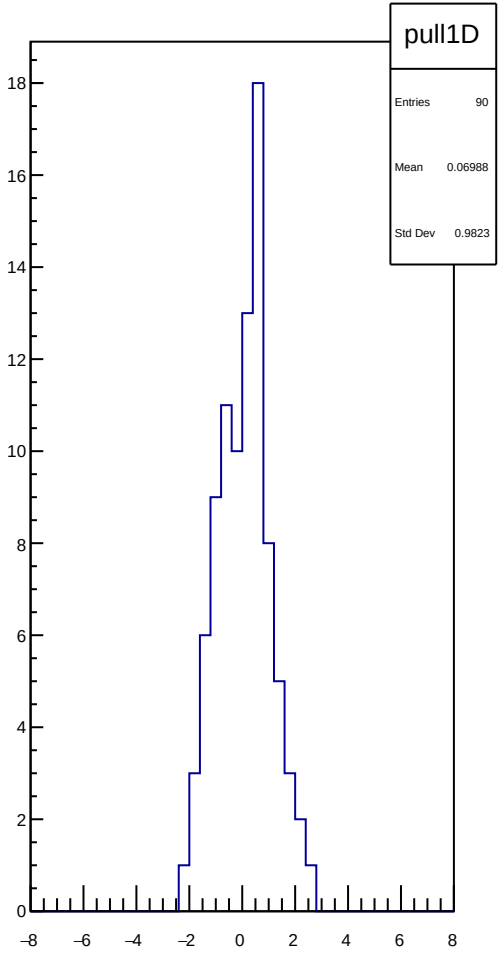

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 89
p0 6.109e−11 ± 7.047e−14
1.2
1
0.8
0.6
0.4
0.2
0

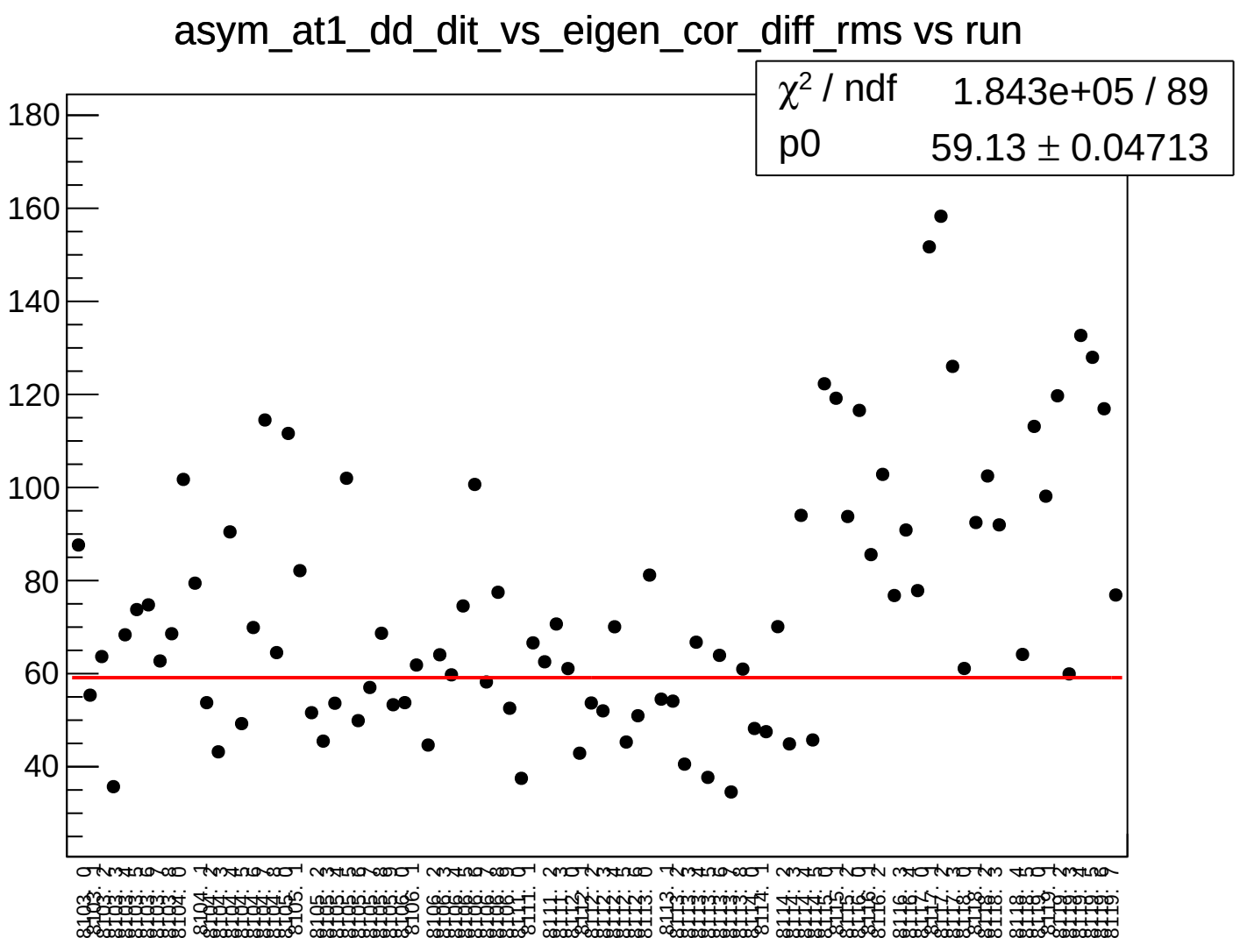

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.29 / 89
p0 0.03987 ± 0.06665
pull
Entries 90
Mean 98.55
Std Dev 0

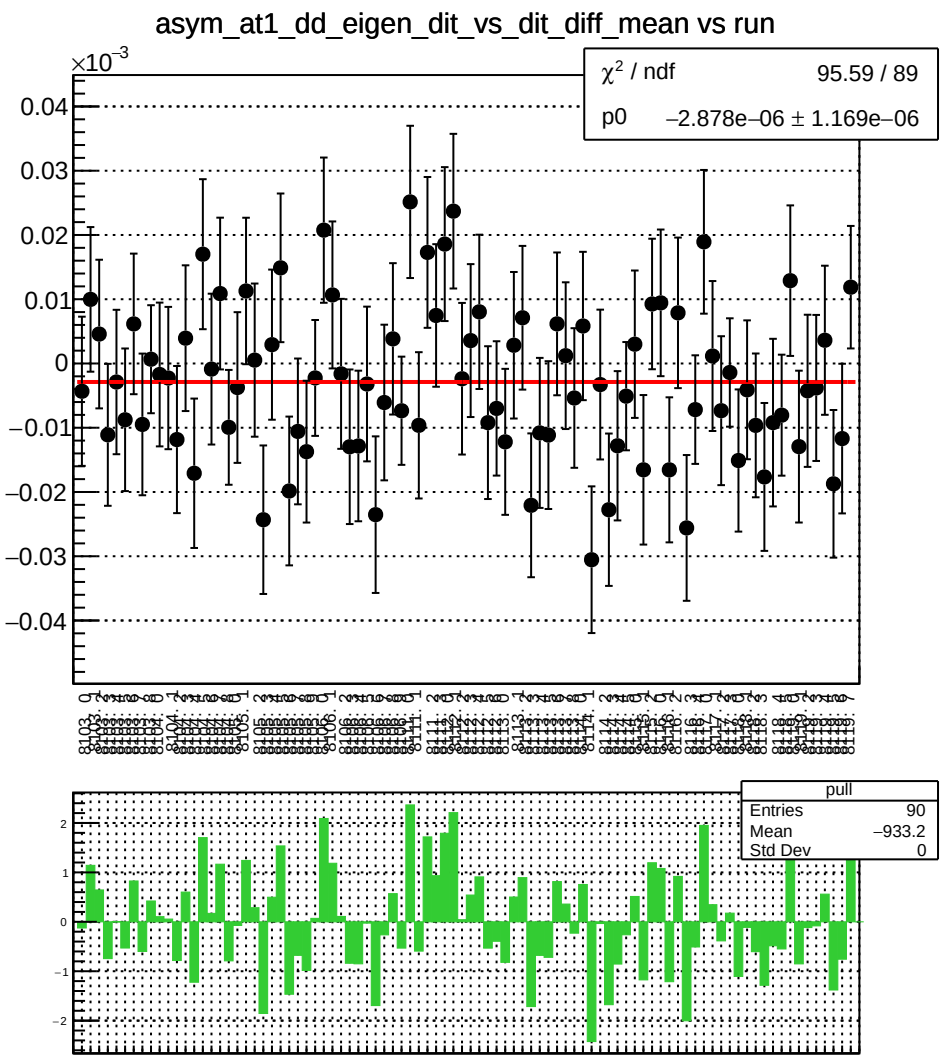

pull1D
Entries 90
Mean 0.06988
Std Dev 0.9823

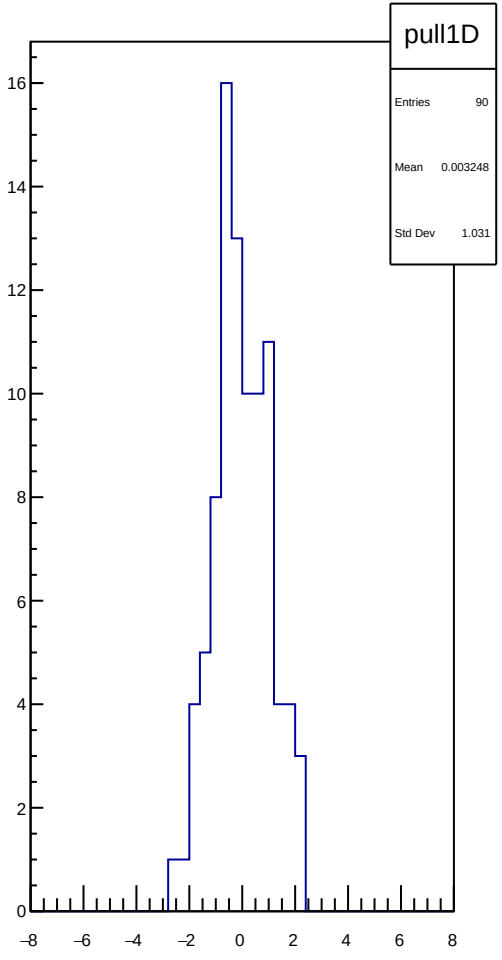

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.843e+05 / 89
p0 59.13 ± 0.04713
180
160
140
120
100
80
60
40

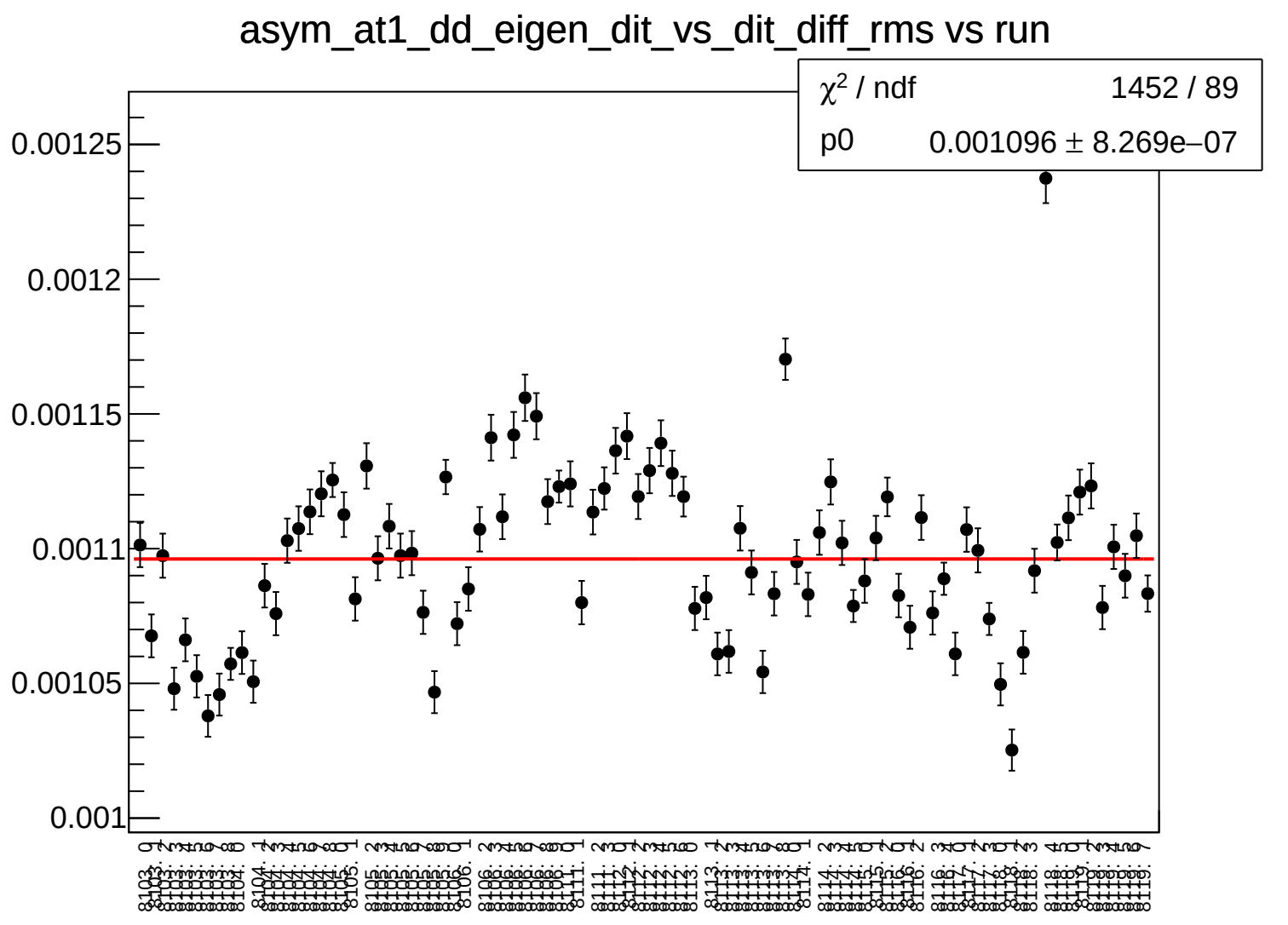

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.29 / 89
p0 0.03987 ± 0.06665
pull
Entries 90
Mean 98.55
Std Dev 0

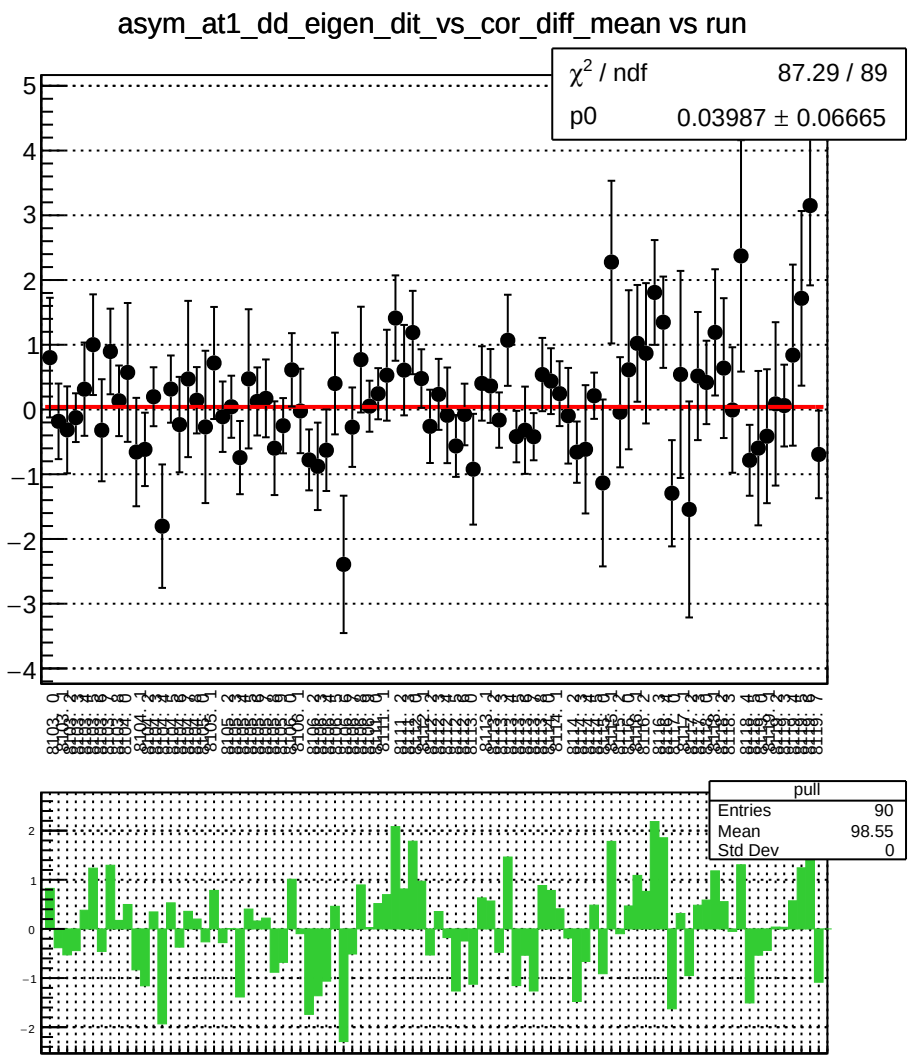

pull1D
Entries 90
Mean 0.06988
Std Dev 0.9823

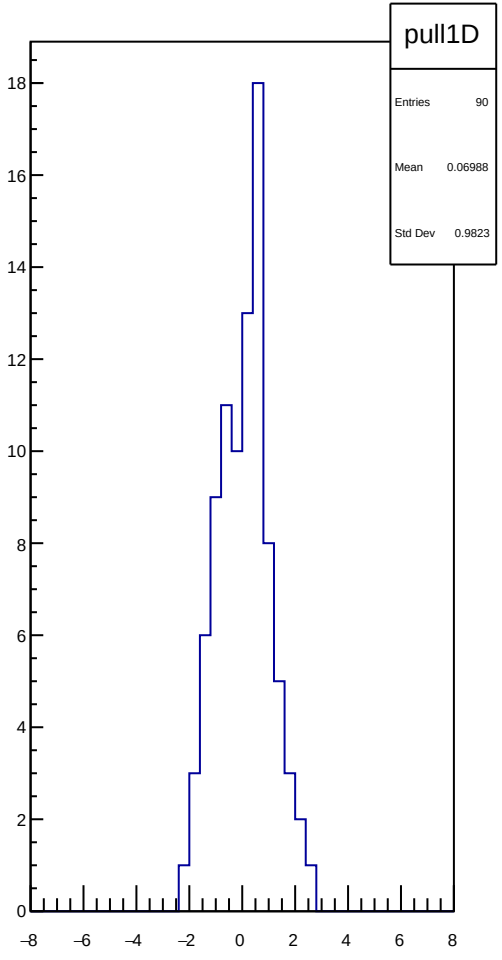

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.843e+05 / 89
p0 59.13 ± 0.04713
180
160
140
120
100
80
60
40

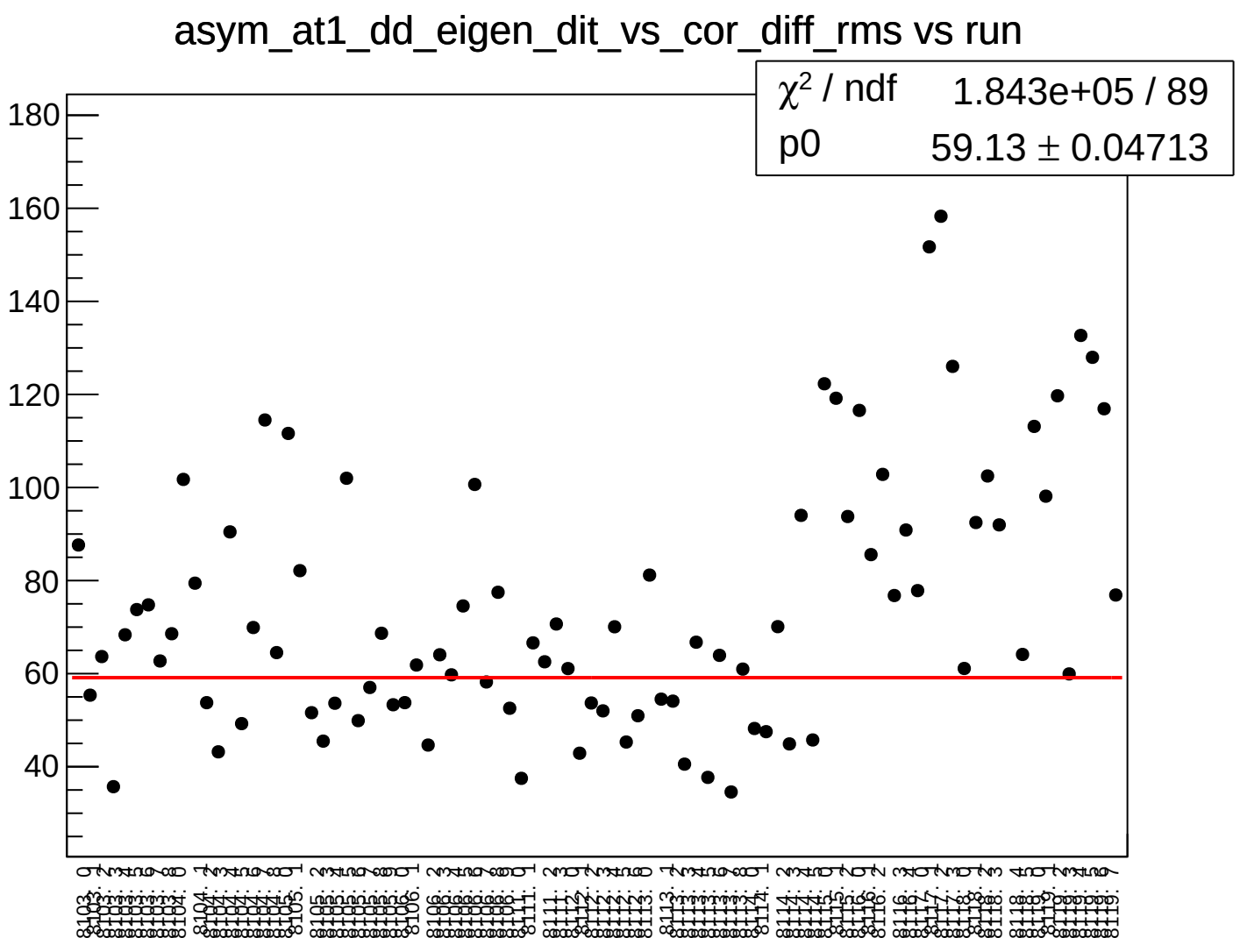

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.59 / 89
p0 −2.878e−06 ± 1.169e−06
pull
Entries 90
Mean −933.2
Std Dev 0

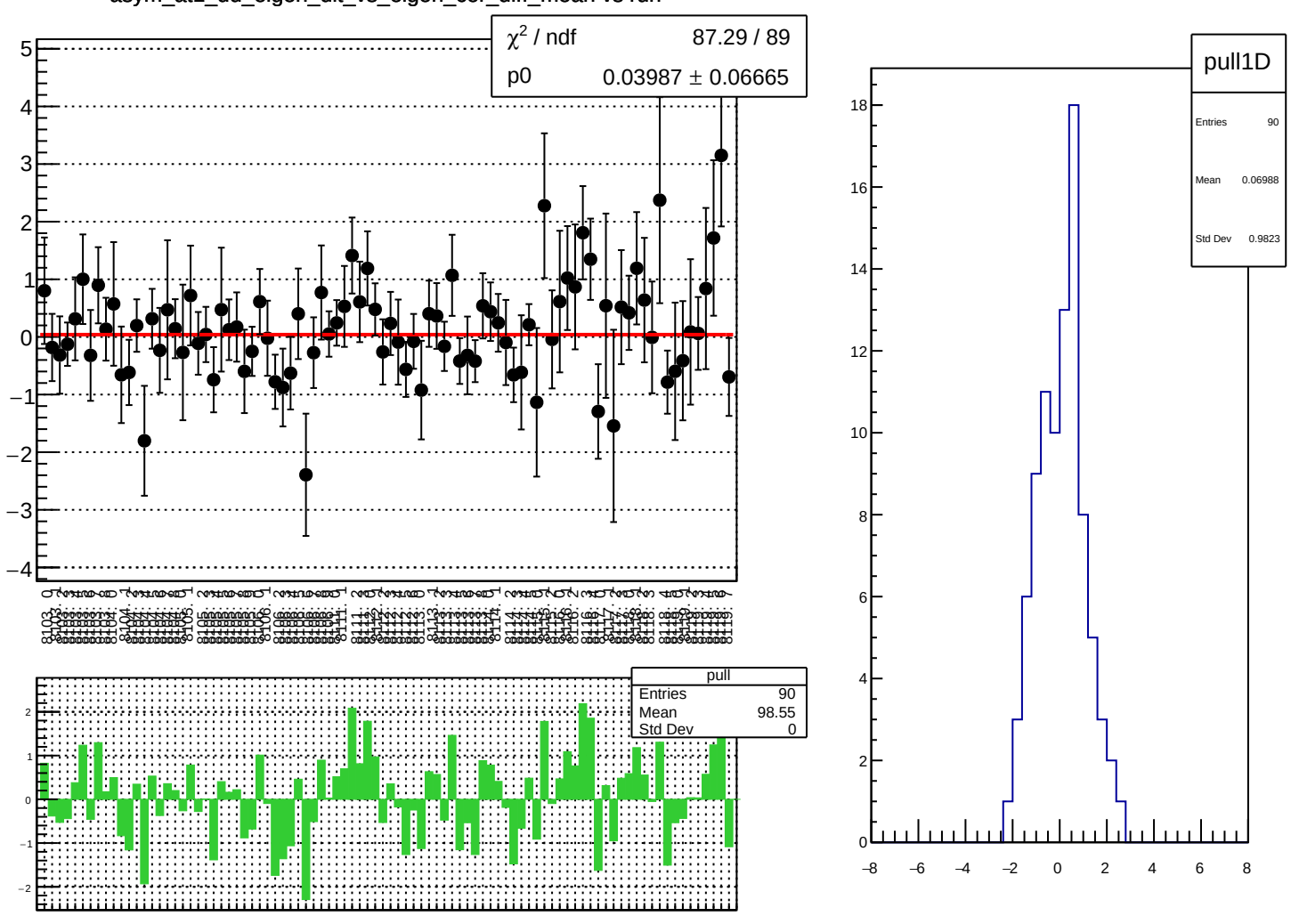

pull1D
Entries 90
Mean 0.003248
Std Dev 1.031

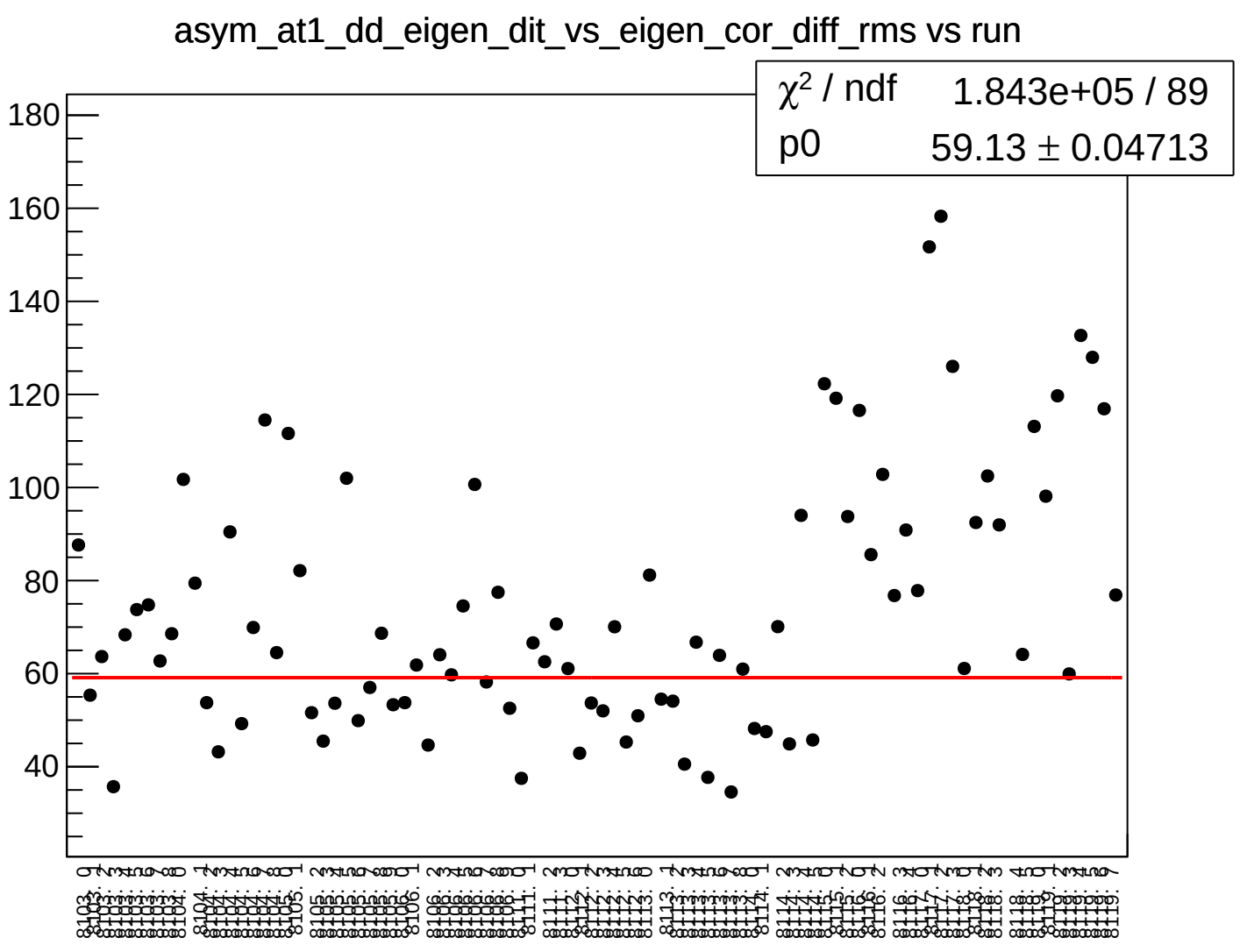

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1452 / 89
p0 0.001096 ± 8.269e−07
0.00125
0.0012
0.00115
0.0011
0.00105
0.001

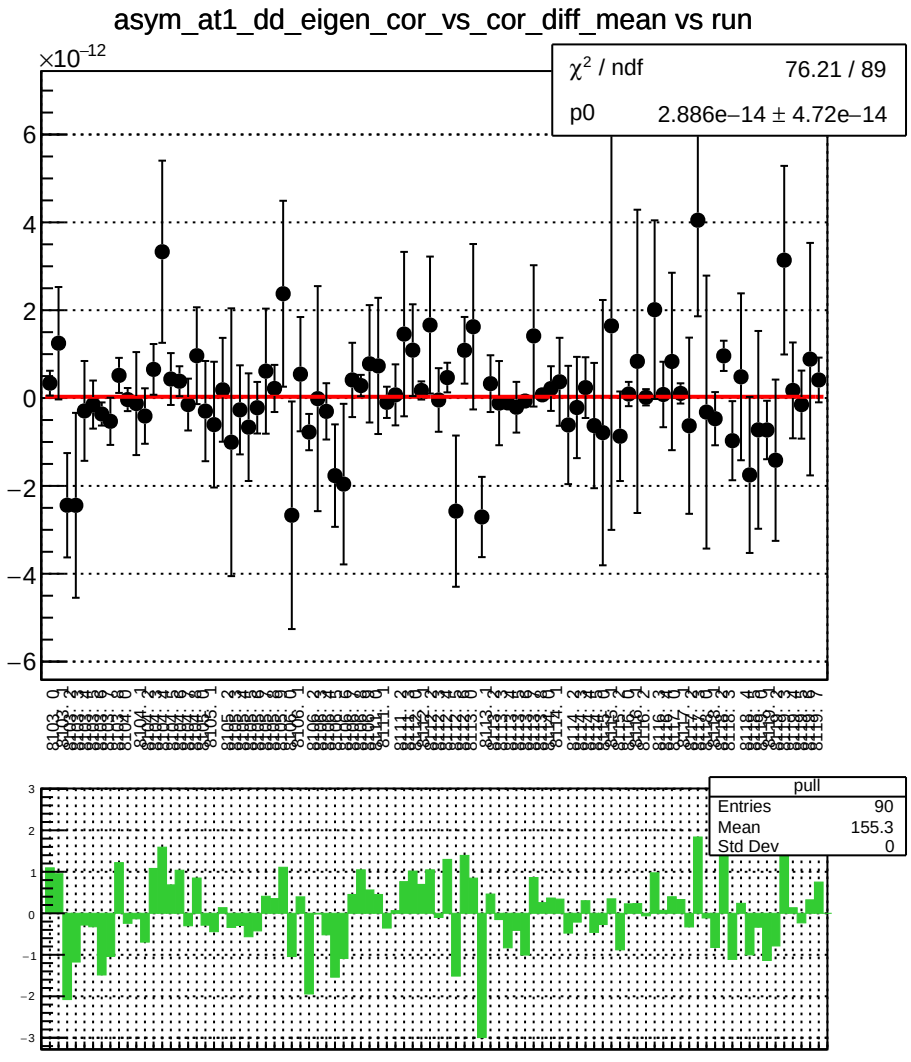

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.29 / 89
p0 0.03987 ± 0.06665
pull
Entries 90
Mean 98.55
Std Dev 0

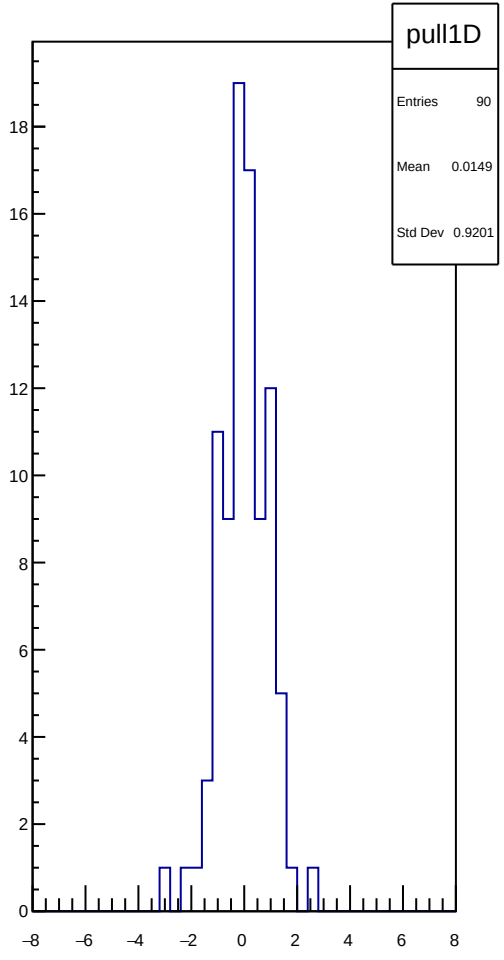

pull1D
Entries 90
Mean 0.06988
Std Dev 0.9823

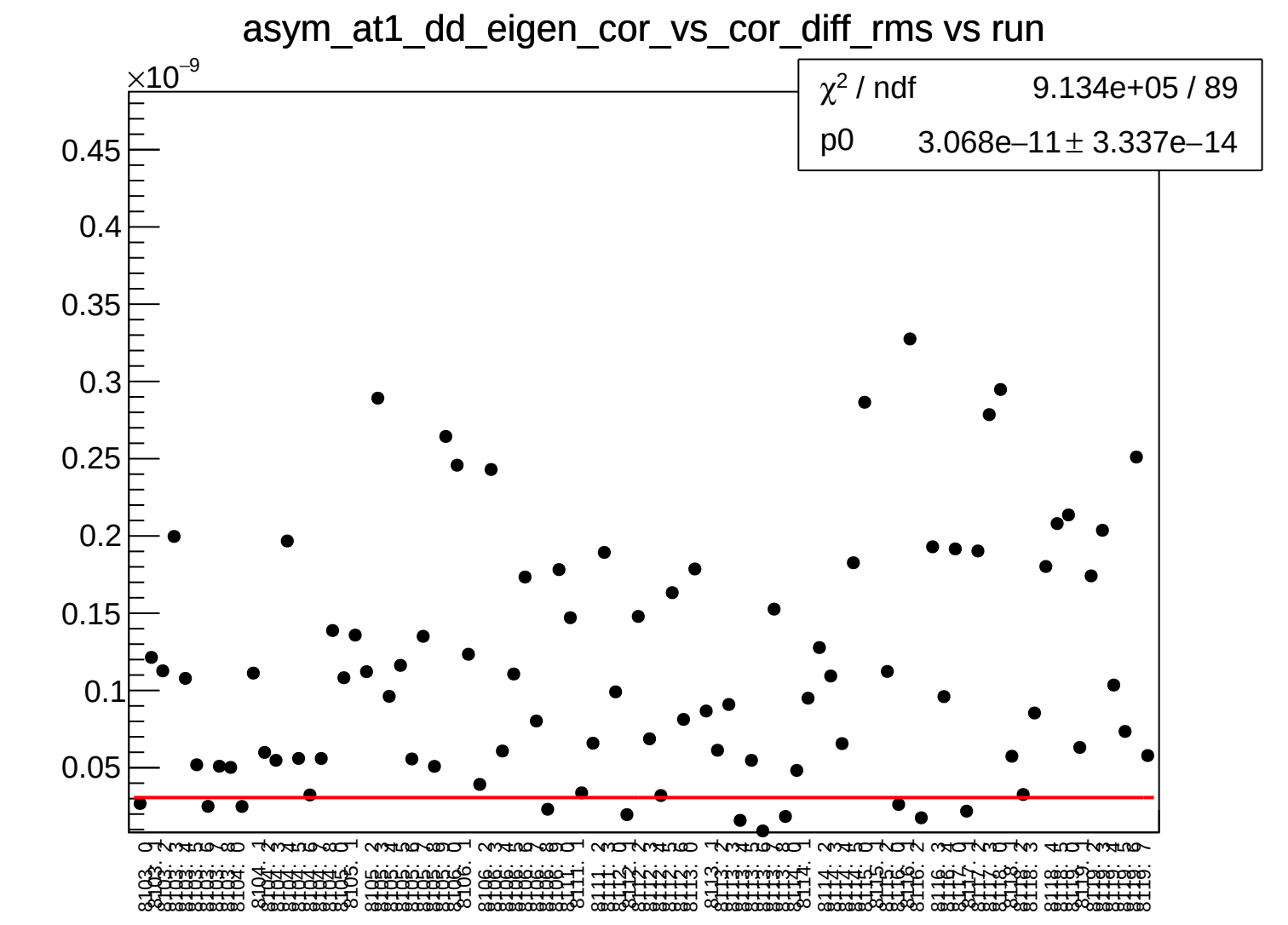

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.843e+05 / 89
p0 59.13 ± 0.04713
180
160
140
120
100
80
60
40

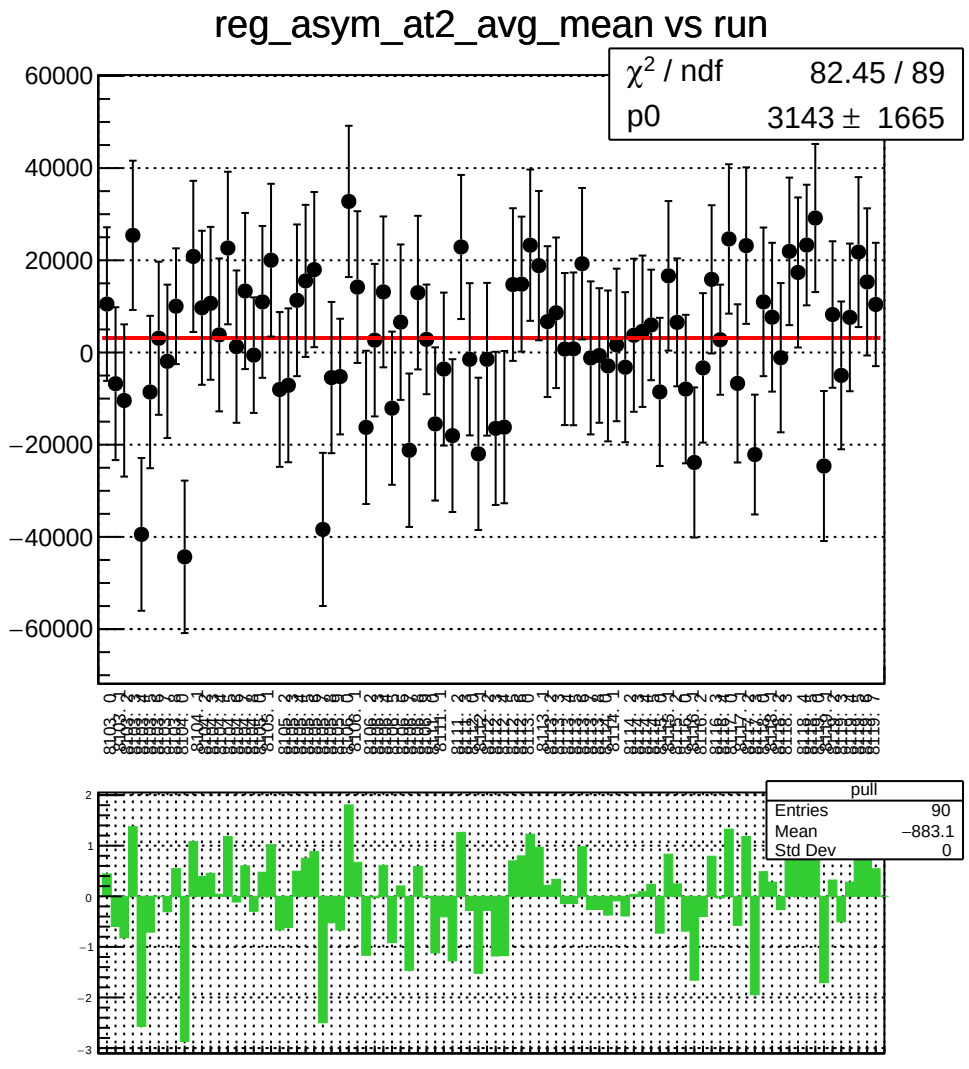

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.29 / 89
p0 0.03987 ± 0.06665
pull
Entries 90
Mean 98.55
Std Dev 0
pull1D
Entries 90
Mean 0.06988
Std Dev 0.9823

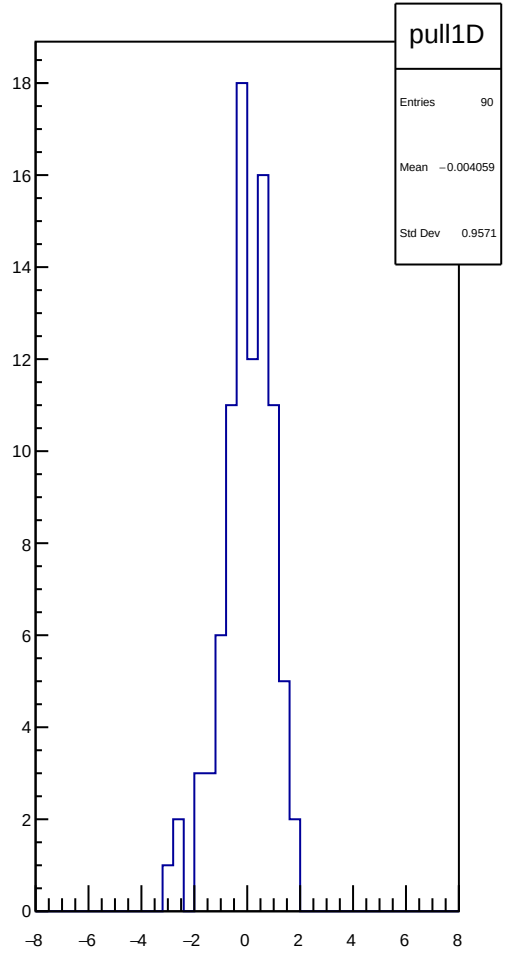

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.843e+05 / 89
p0 59.13 ± 0.04713
180
160
140
120
100
80
60
40

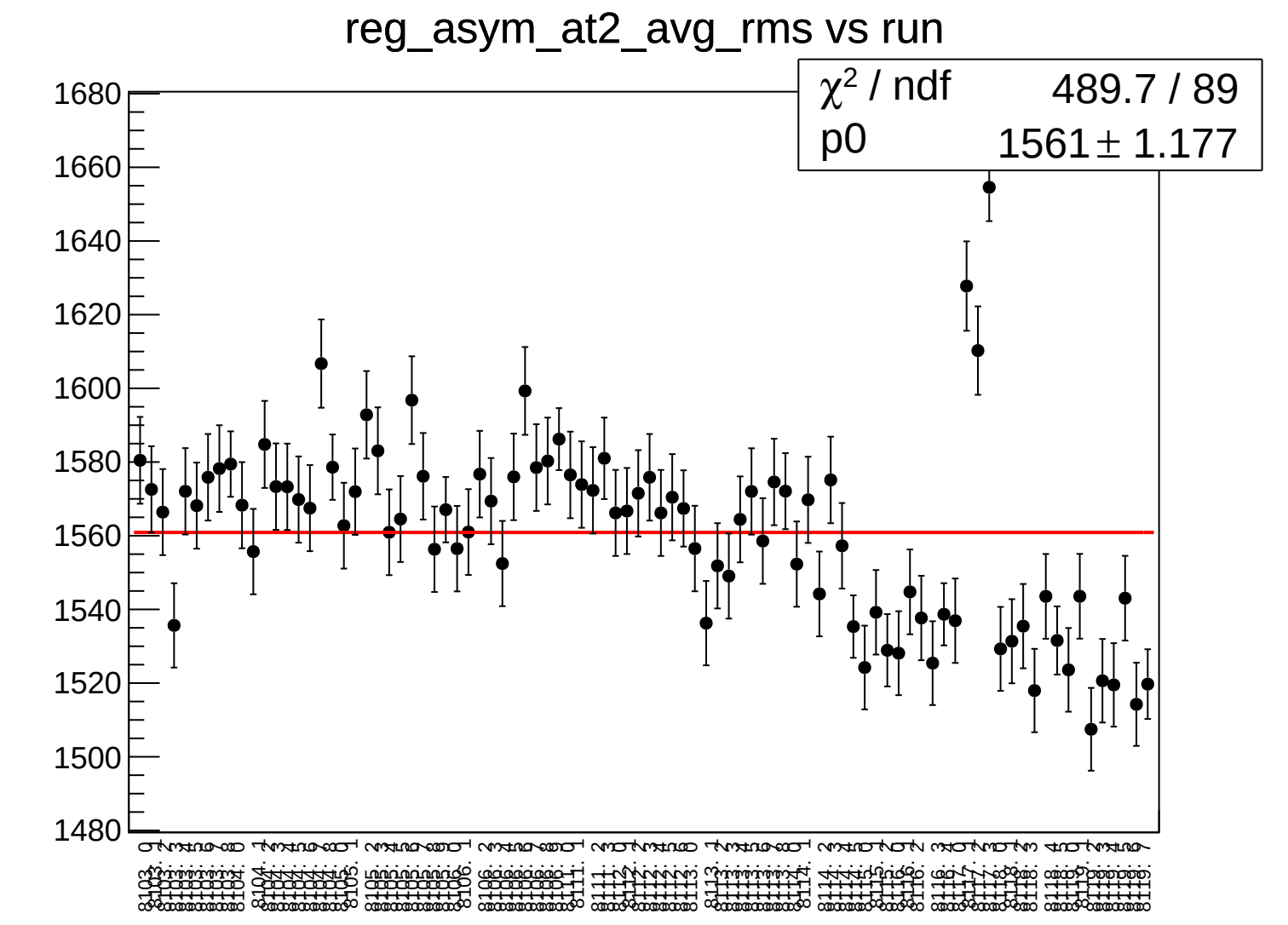

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.21 / 89
p0 2.886e−14 ± 4.72e−14
pull
Entries 90
Mean 155.3
Std Dev 0

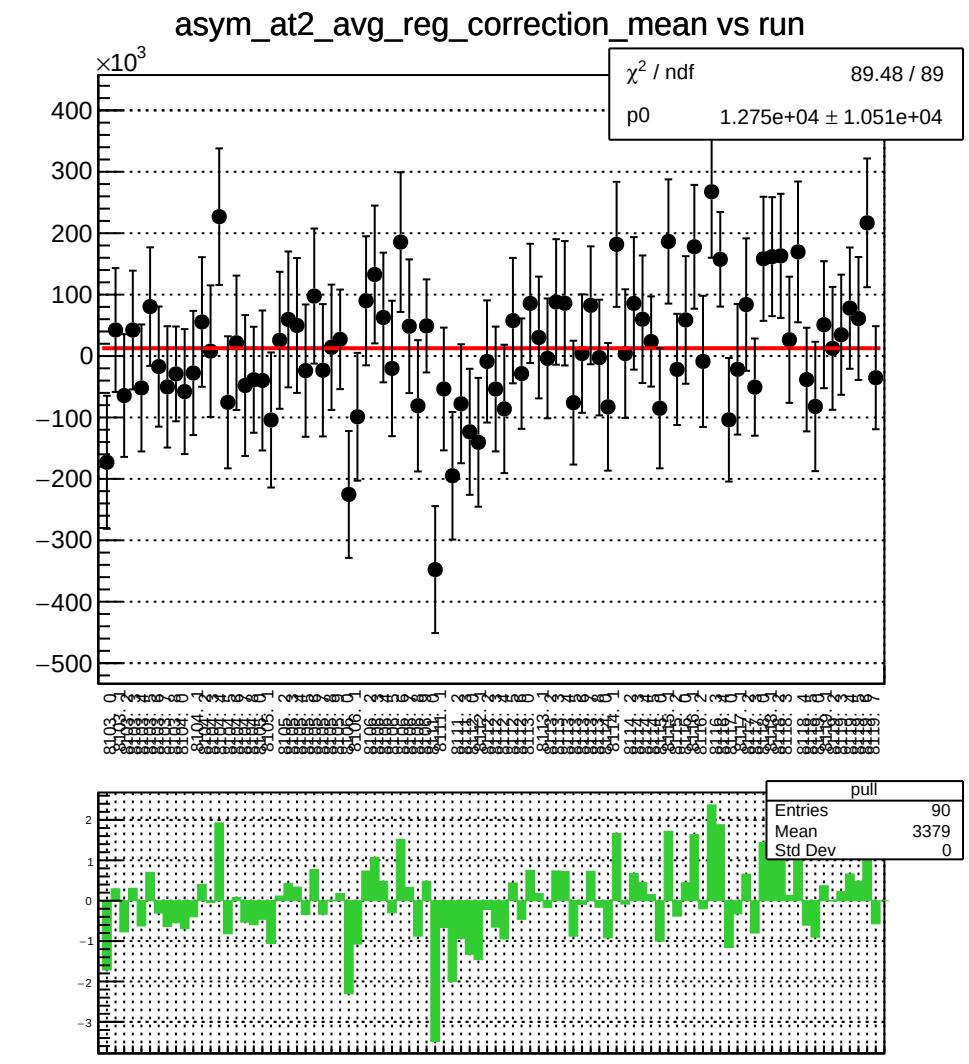

pull1D
Entries 90
Mean 0.0149
Std Dev 0.9201

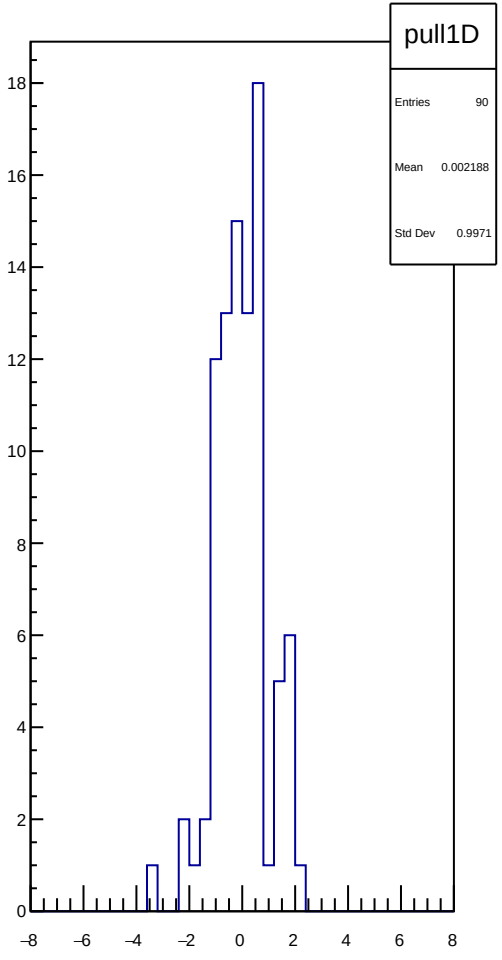

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.134e+05 / 89
p0 3.068e−11 ± 3.337e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

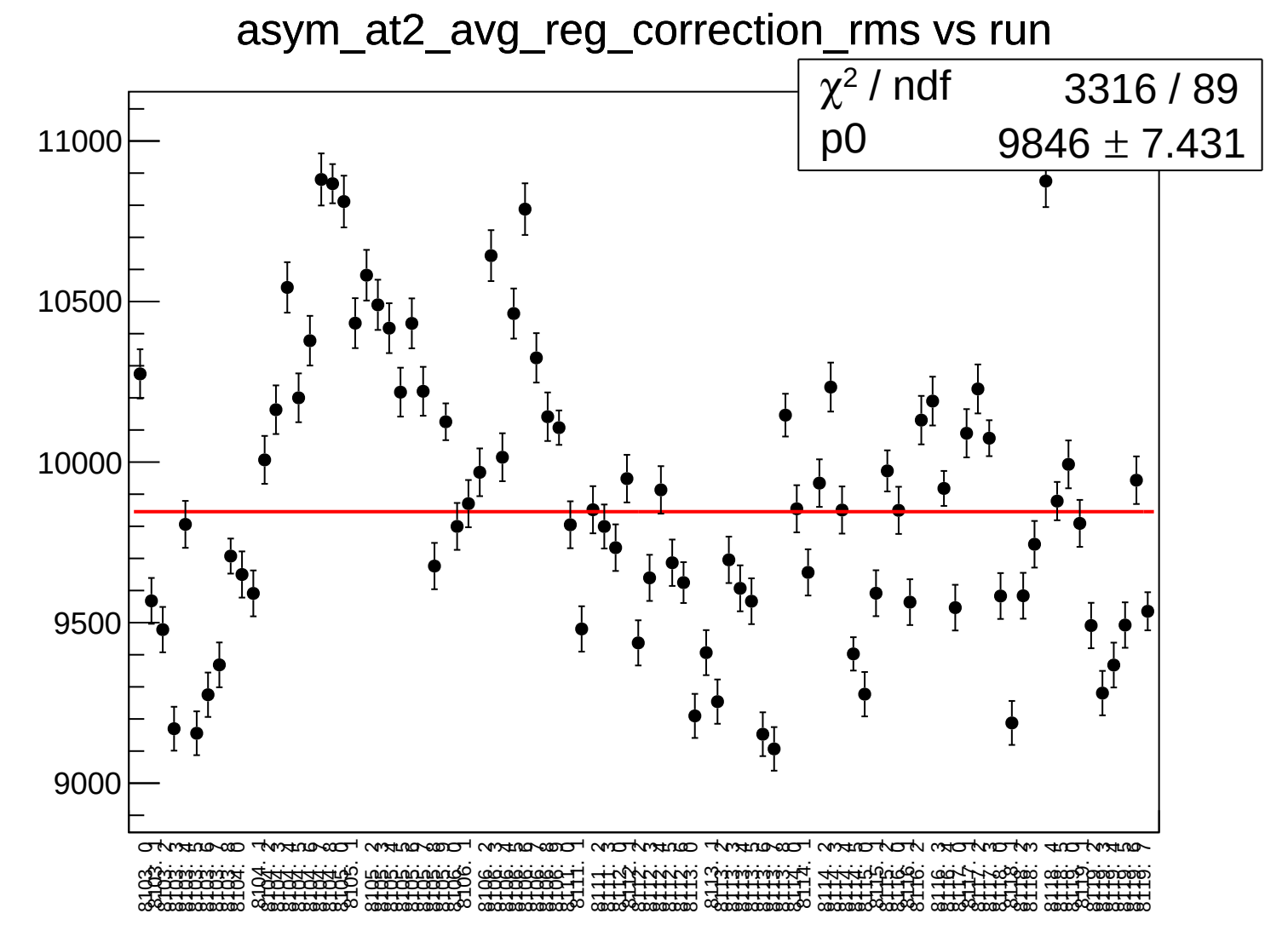

reg_asym_at2_avg_mean vs run
χ² / ndf 82.45 / 89
p0 3143 ± 1665
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −883.1
Std Dev 0
2
1
0
−1
−2
−3

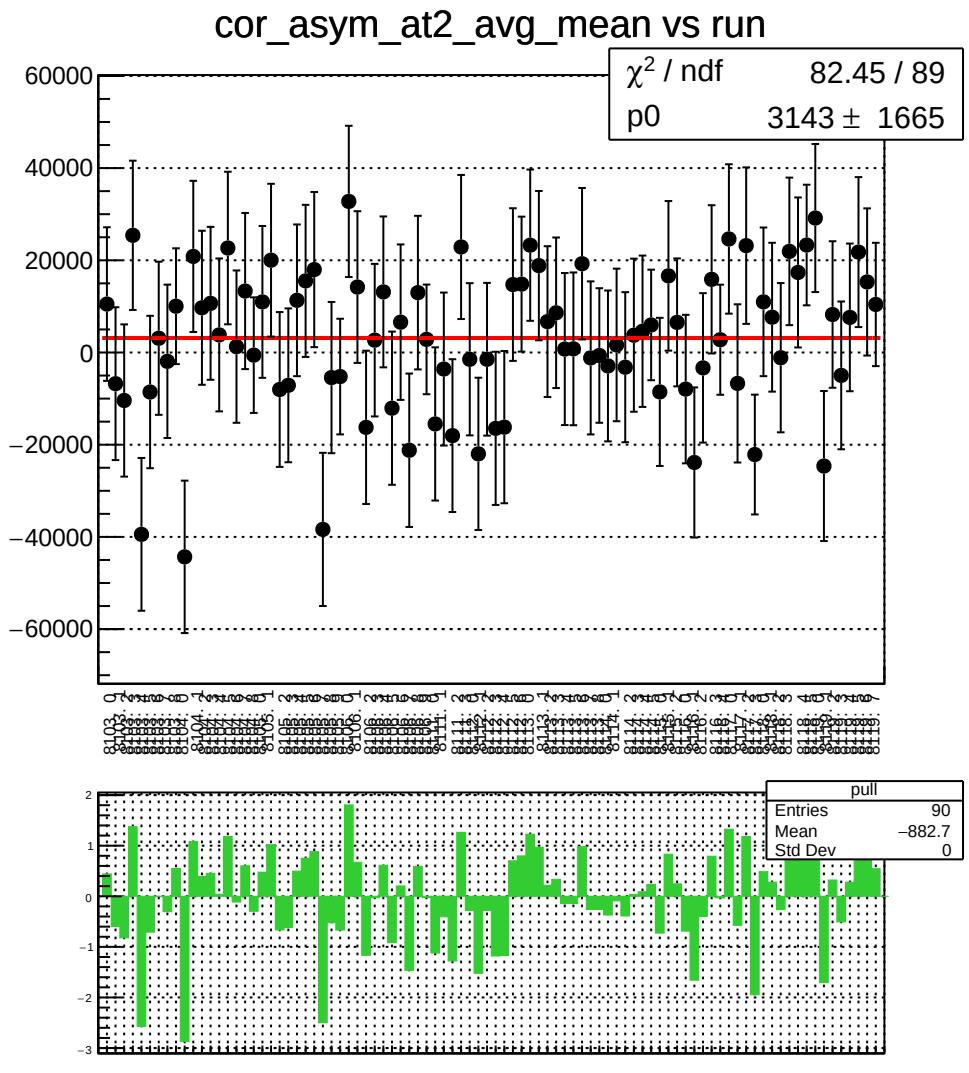

pull1D
Entries 90
Mean −0.004059
Std Dev 0.9571
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

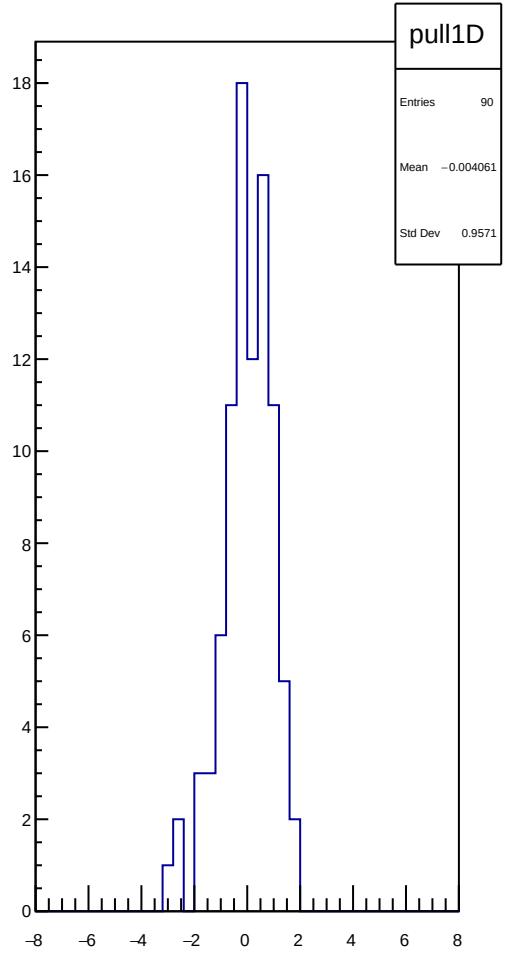

reg_asym_at2_avg_rms vs run
χ² / ndf 489.7 / 89
p0 1561 ± 1.177
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

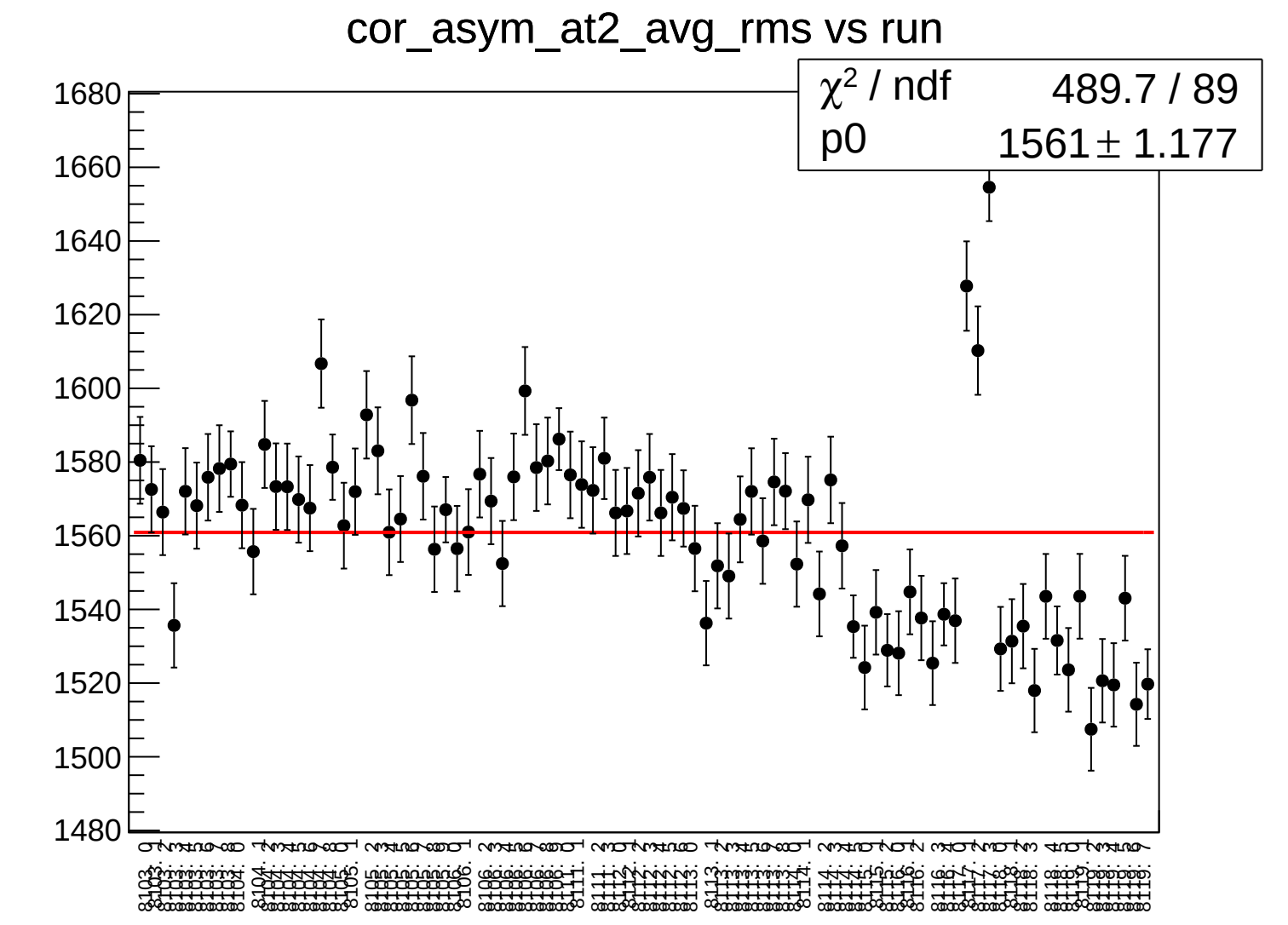

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.48 / 89
p0 1.275e+04 ± 1.051e+04
pull
Entries 90
Mean 3379
Std Dev 0

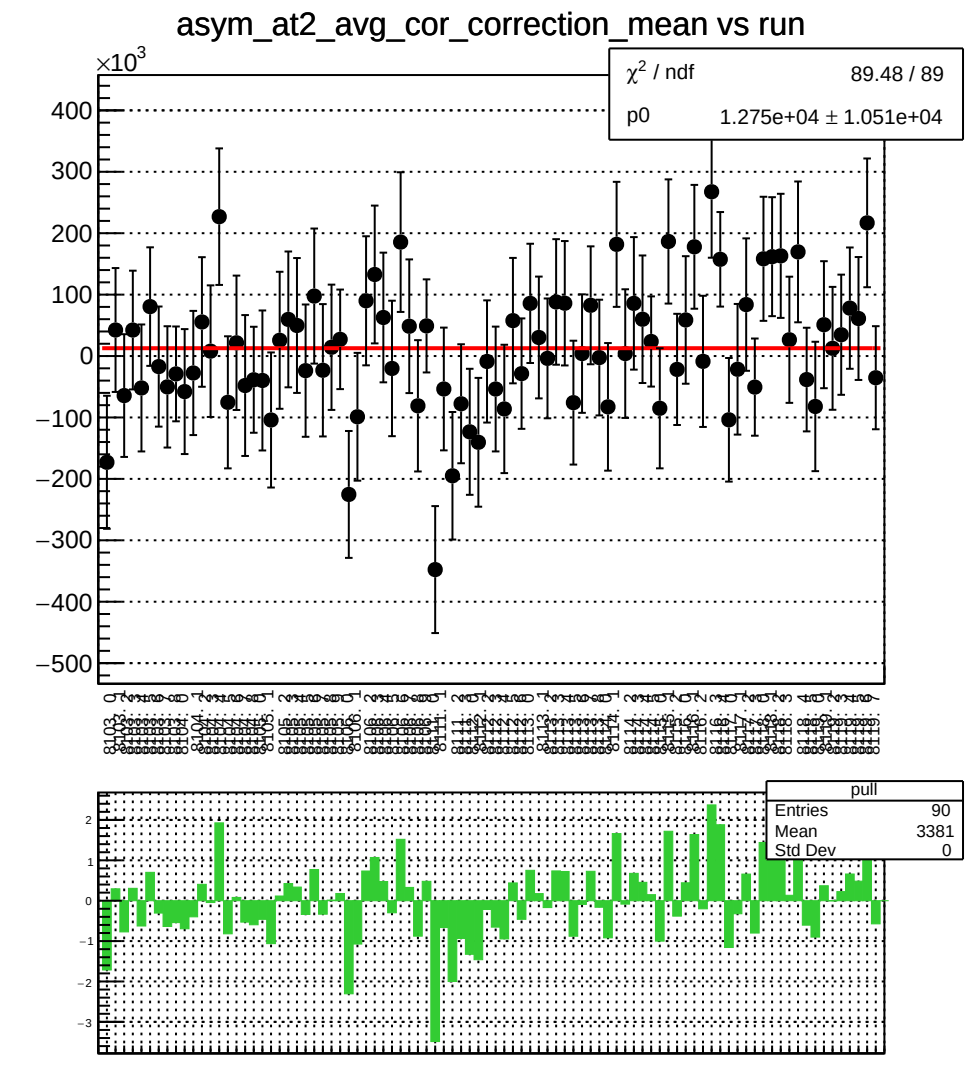

pull1D
Entries 90
Mean 0.002188
Std Dev 0.9971

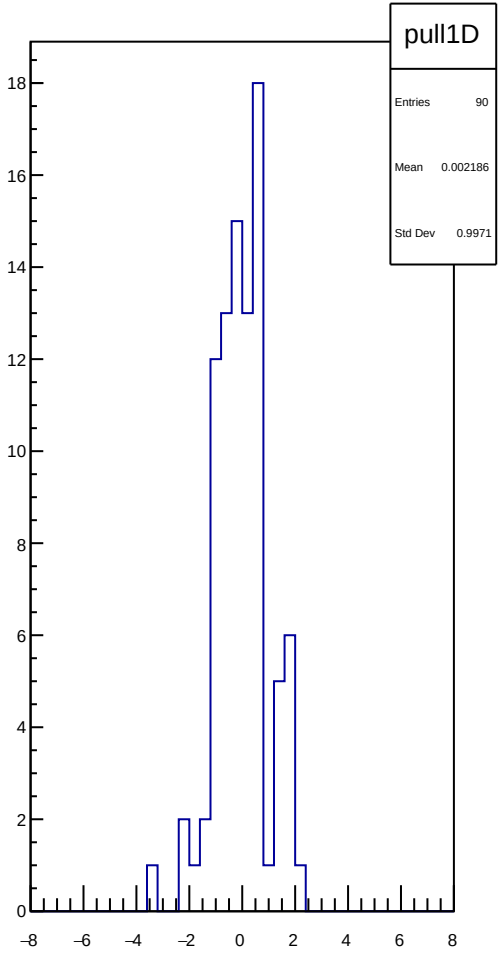

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3316 / 89
p0 9846 ± 7.431
11000
10500
10000
9500
9000

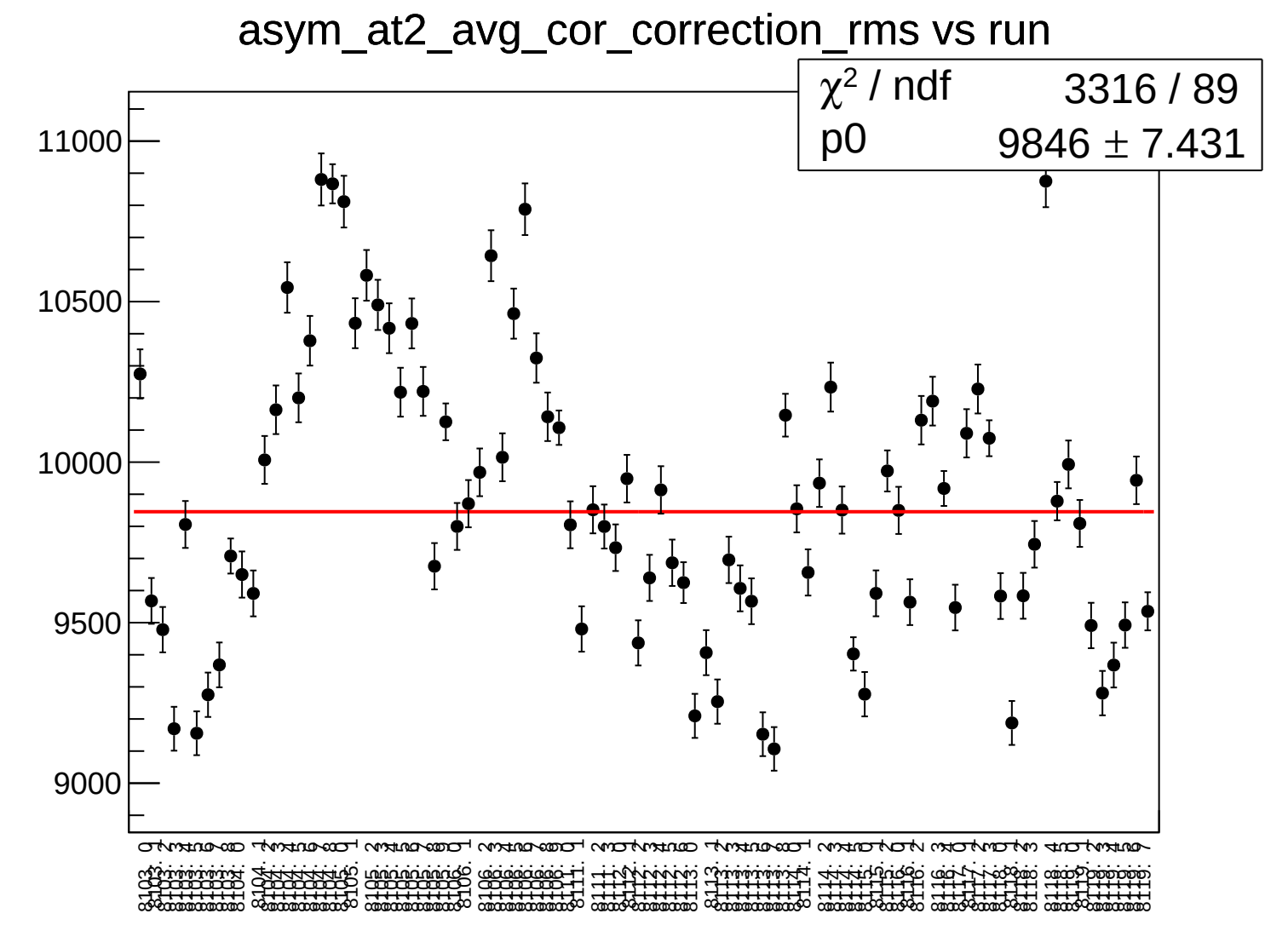

cor_asym_at2_avg_mean vs run
χ² / ndf 82.45 / 89
p0 3143 ± 1665
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −882.7
Std Dev 0
2
1
0
−1
−2
−3

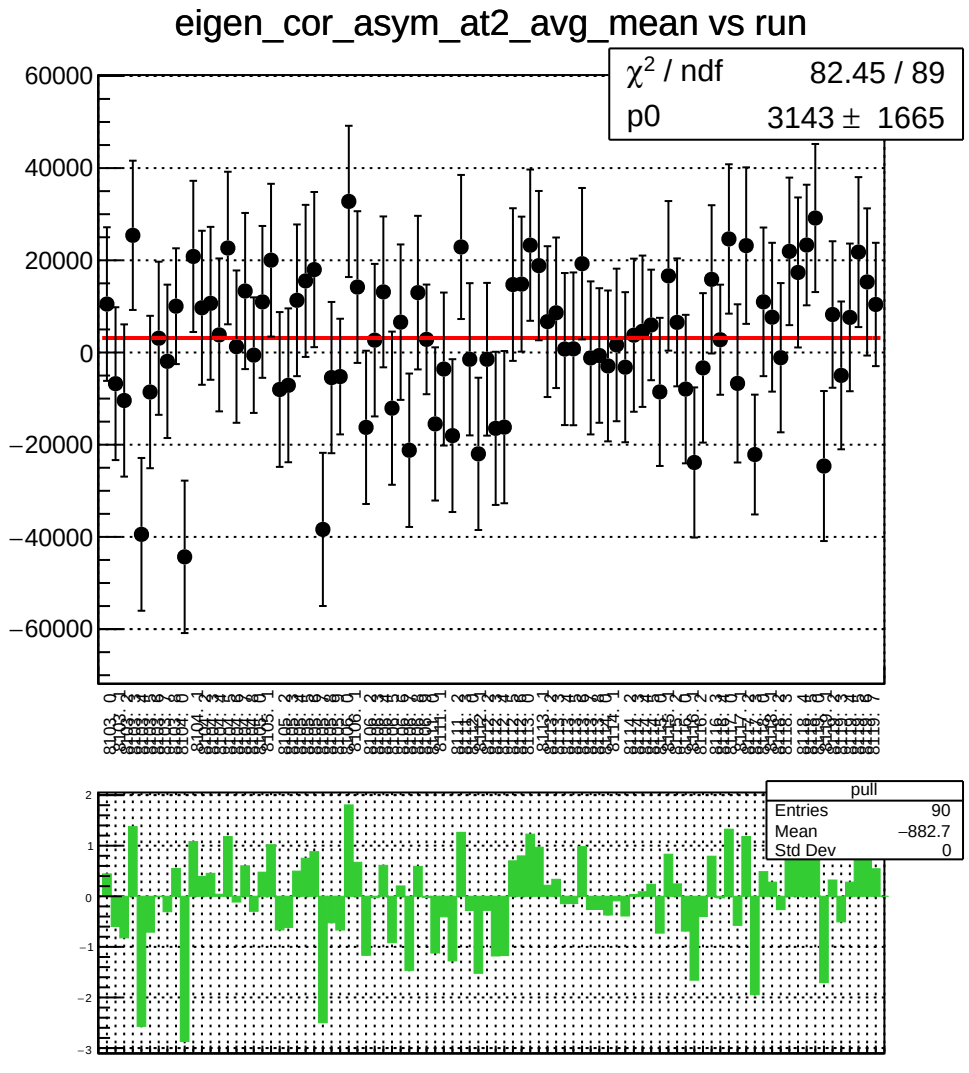

pull1D
Entries 90
Mean −0.004061
Std Dev 0.9571
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

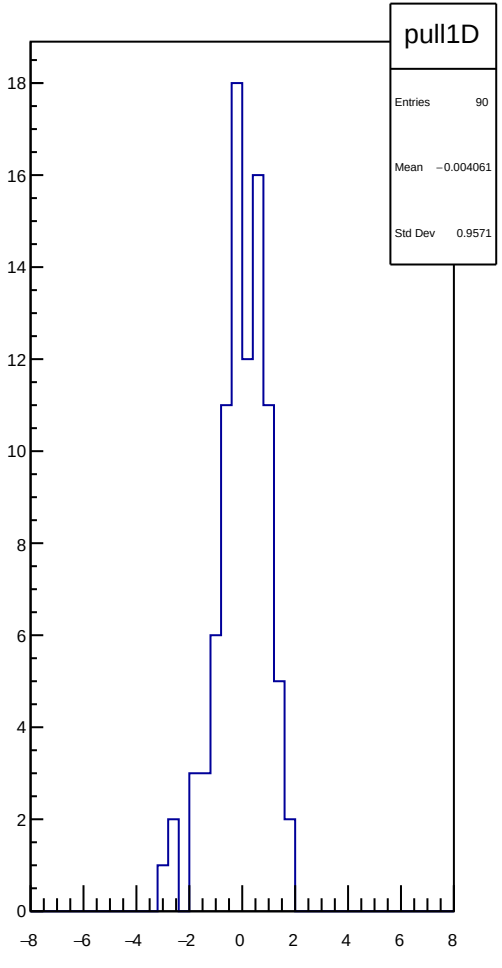

cor_asym_at2_avg_rms vs run
χ² / ndf 489.7 / 89
p0 1561 ± 1.177
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

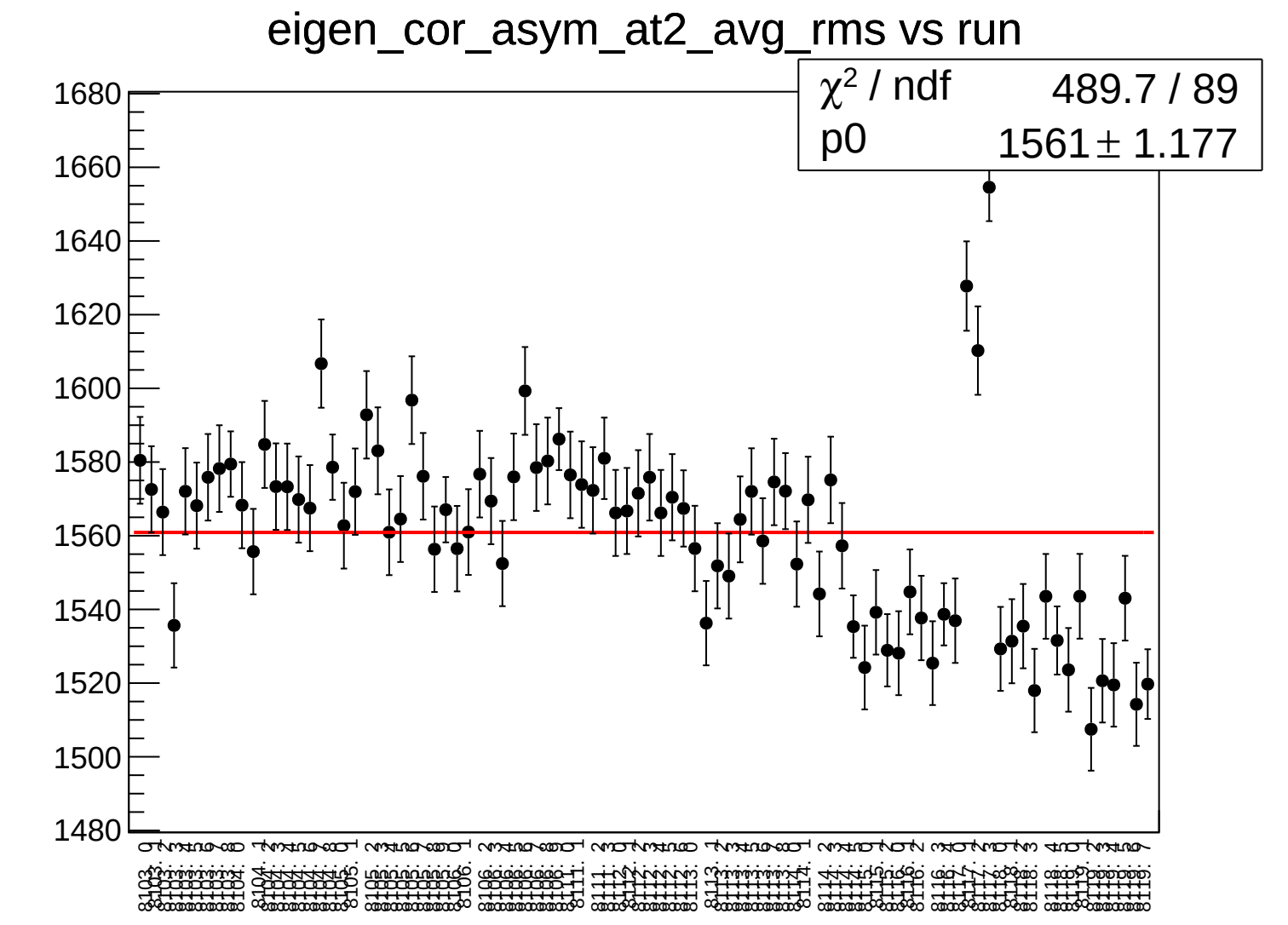

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.48 / 89
p0 1.275e+04 ± 1.051e+04
pull
Entries 90
Mean 3381
Std Dev 0

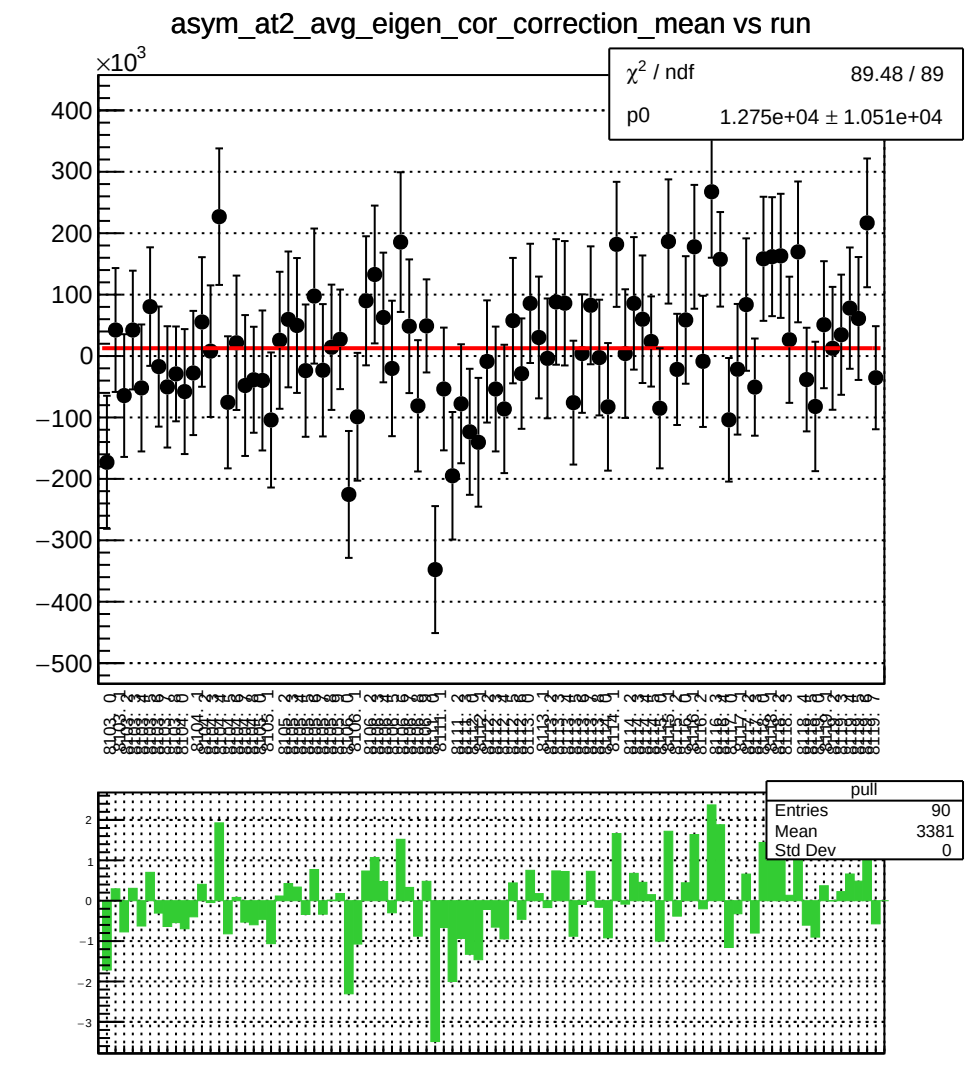

pull1D
Entries 90
Mean 0.002186
Std Dev 0.9971

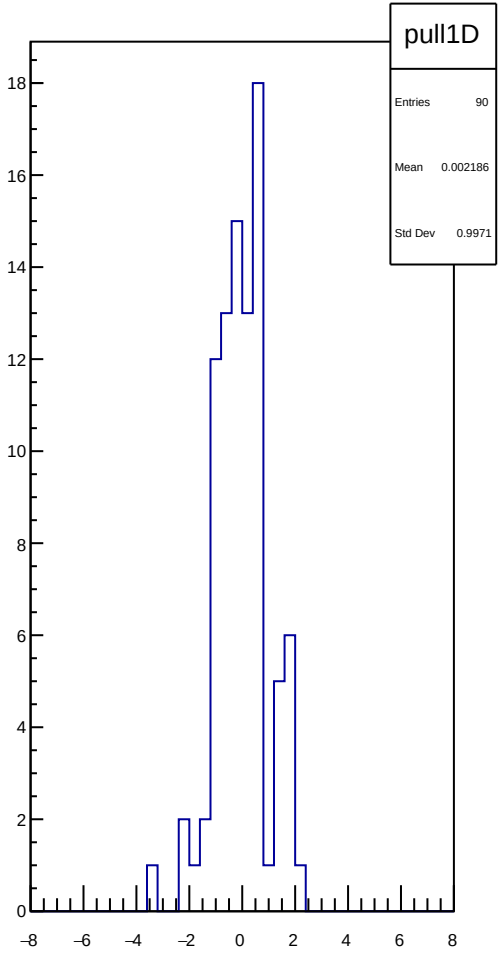

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3316 / 89
p0 9846 ± 7.431
11000
10500
10000
9500
9000

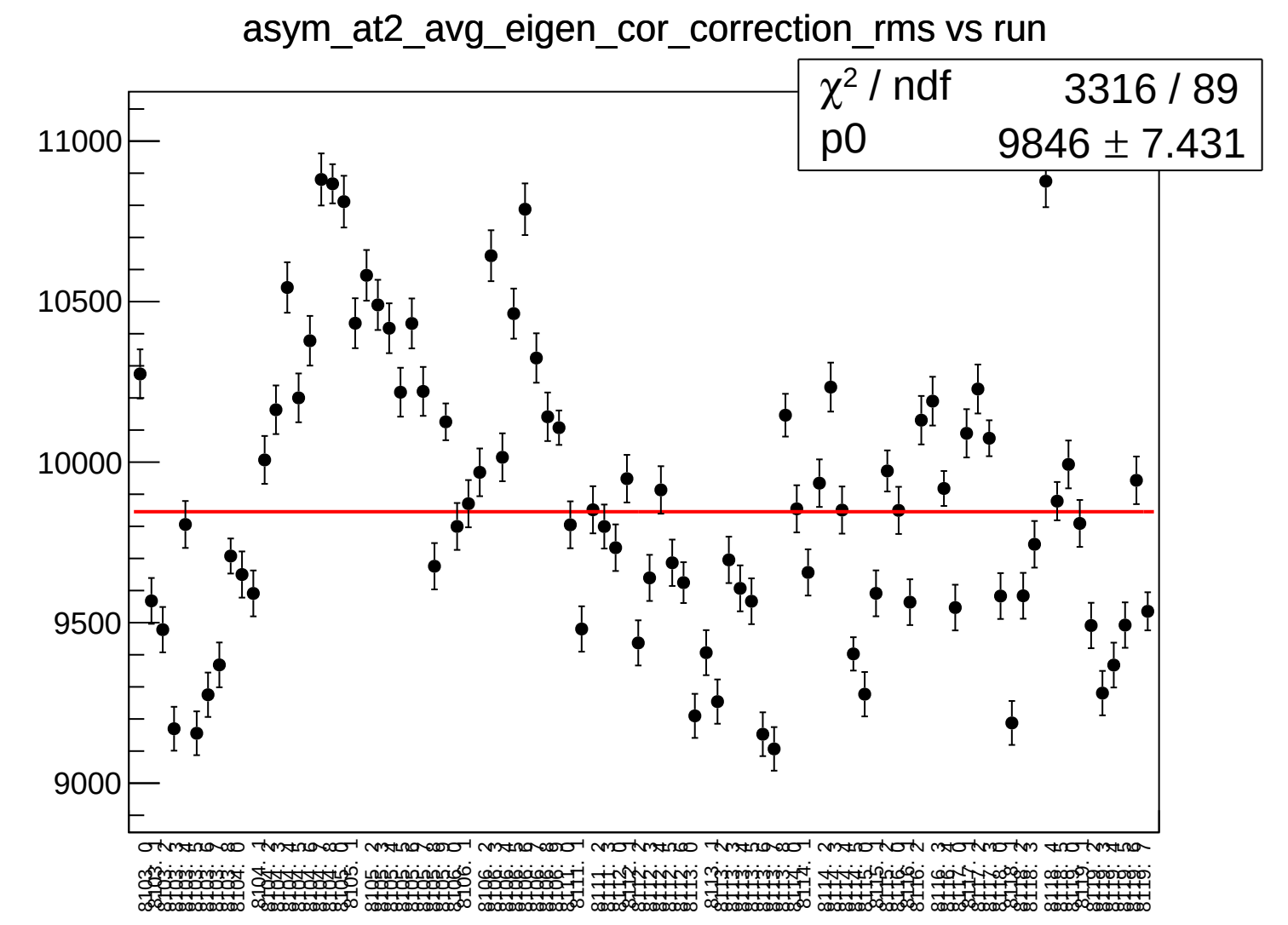

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 82.45 / 89
p0 3143 ± 1665
pull
Entries 90
Mean −882.7
Std Dev 0

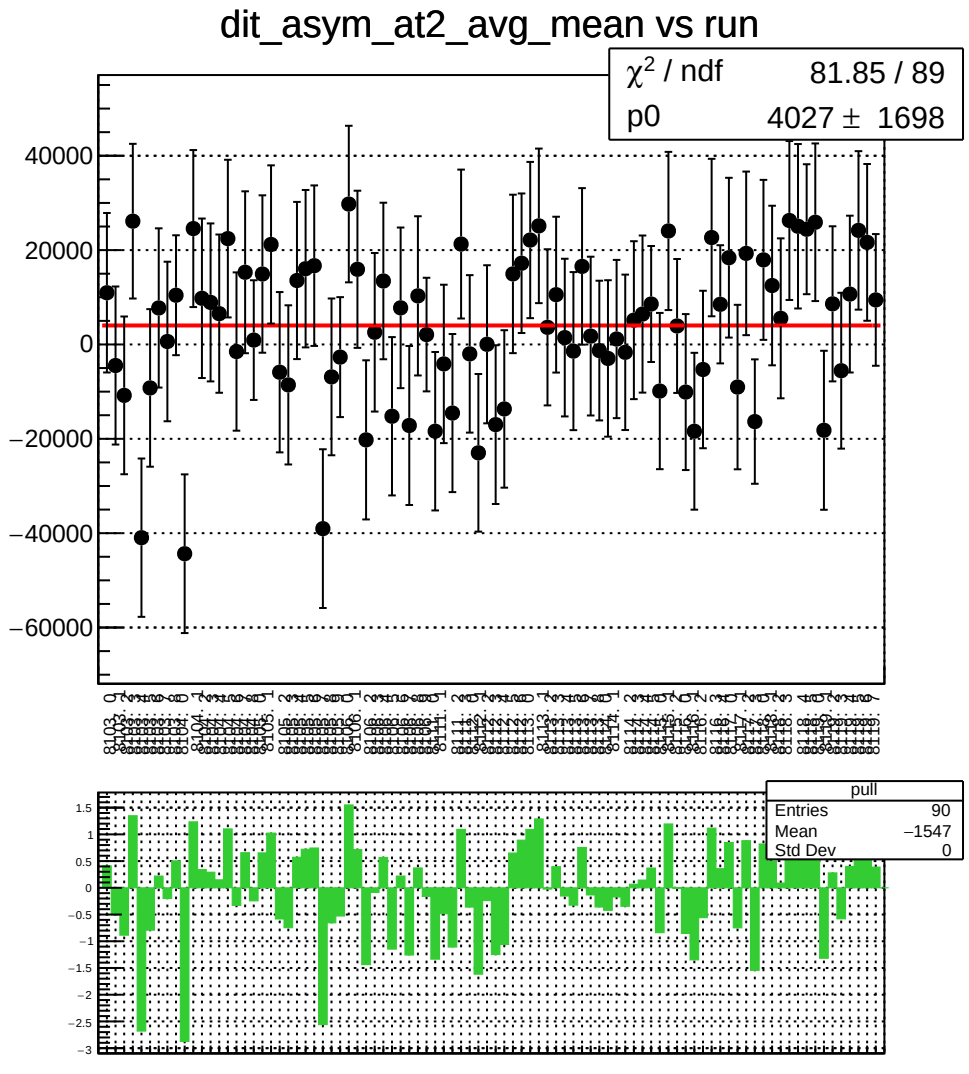

pull1D
Entries 90
Mean −0.004061
Std Dev 0.9571

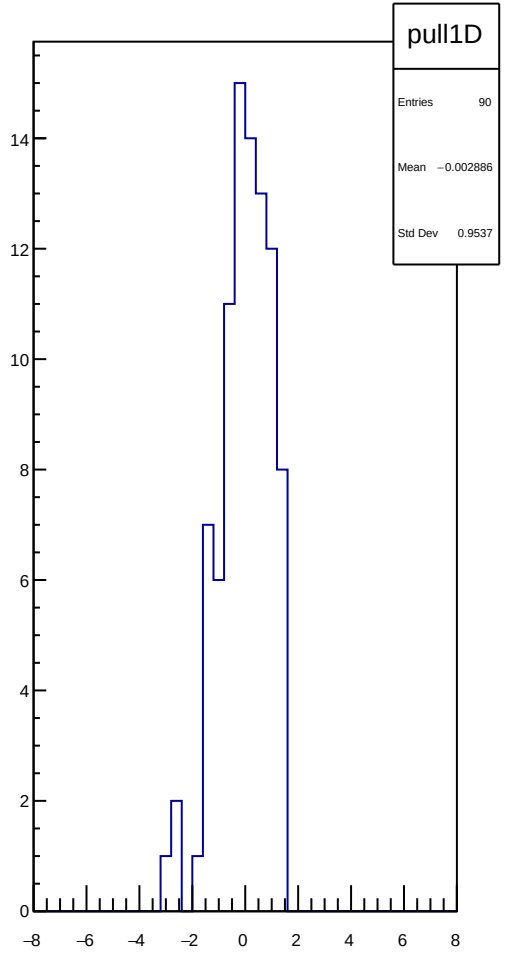

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 489.7 / 89
p0 1561 ± 1.177
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

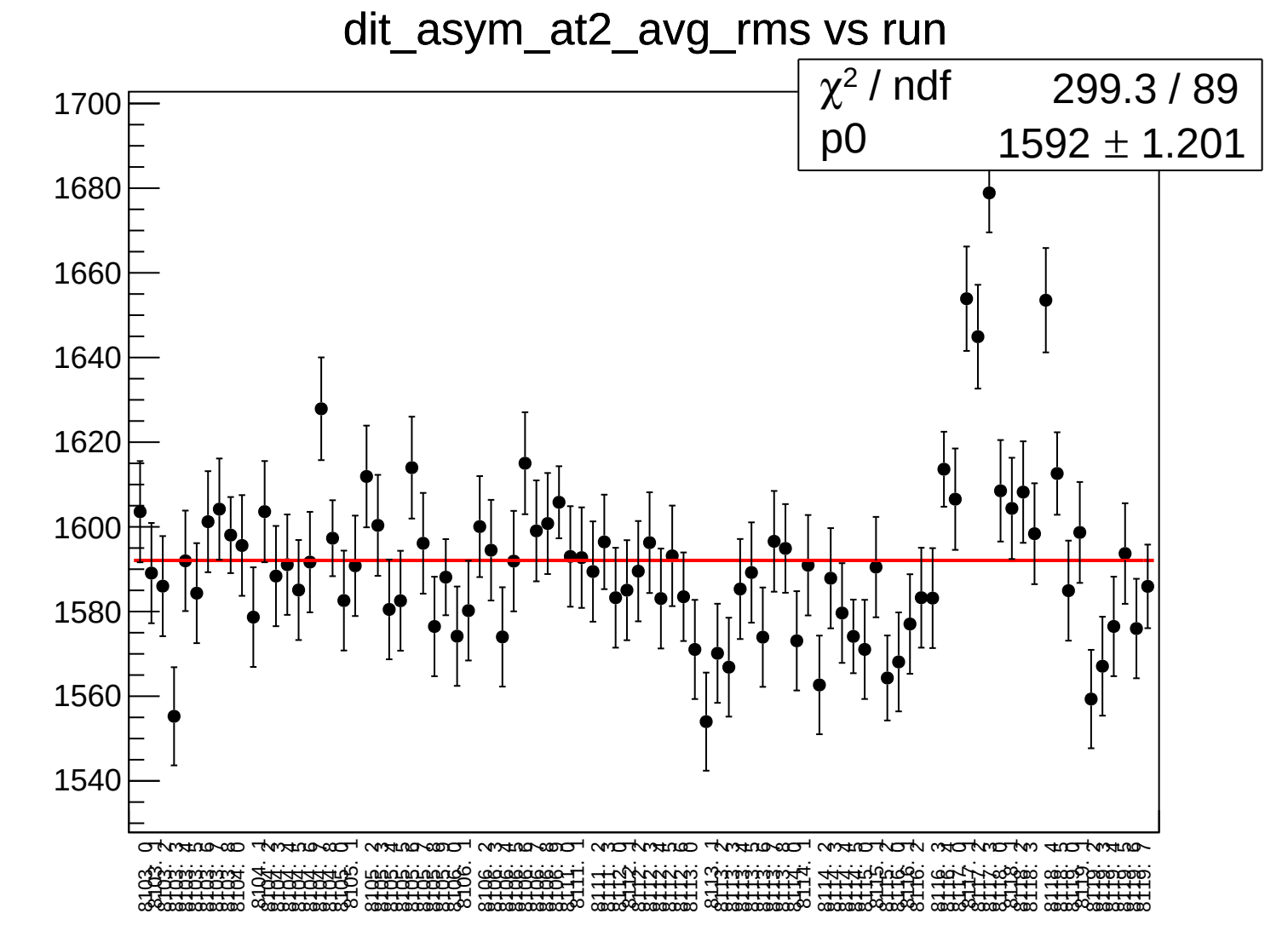

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.48 / 89
p0 1.275e+04 ± 1.051e+04
pull
Entries 90
Mean 3381
Std Dev 0

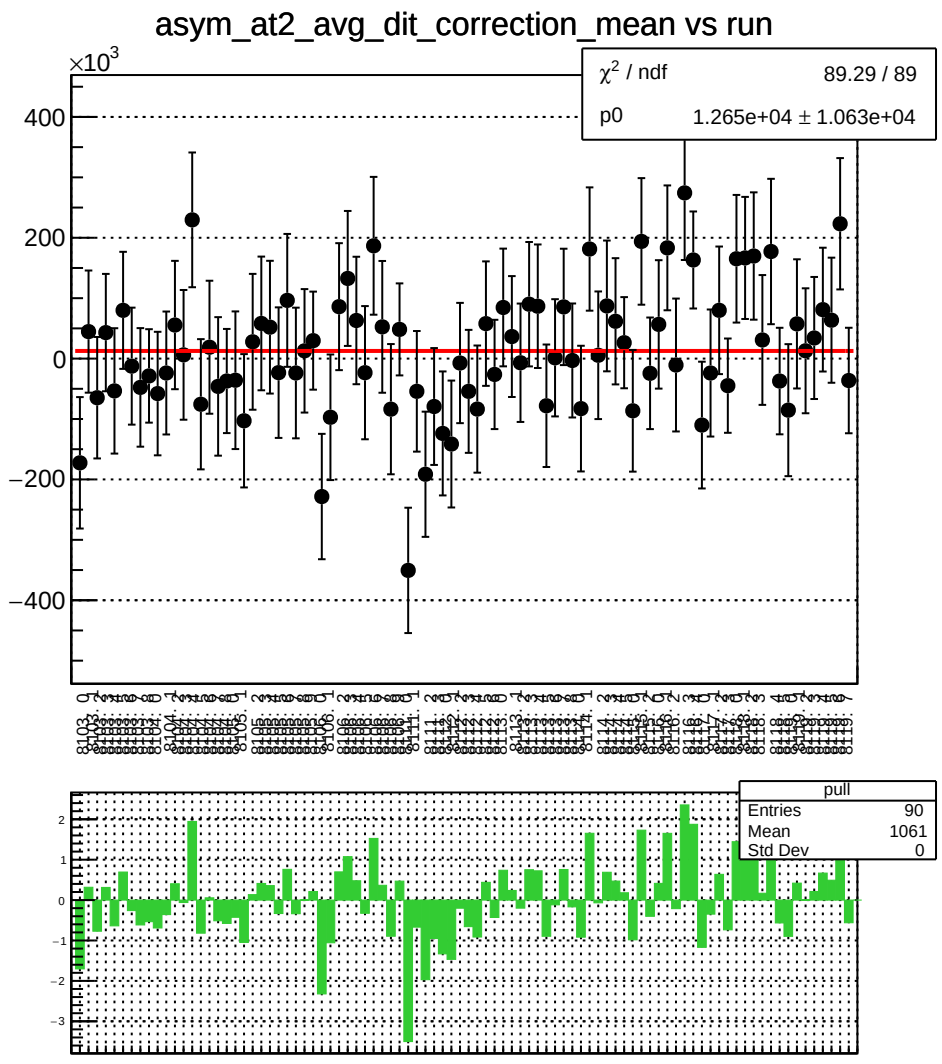

pull1D
Entries 90
Mean 0.002186
Std Dev 0.9971

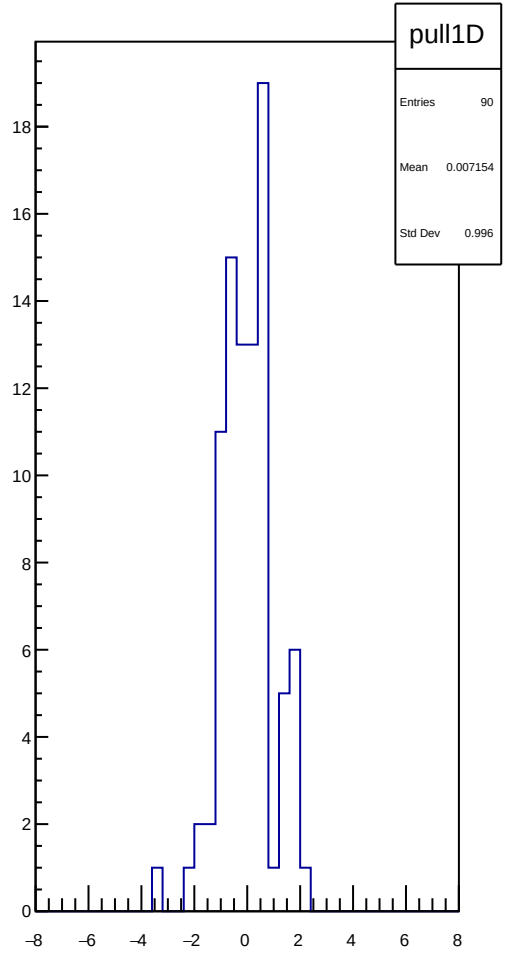

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3316 / 89
p0 9846 ± 7.431
11000
10500
10000
9500
9000

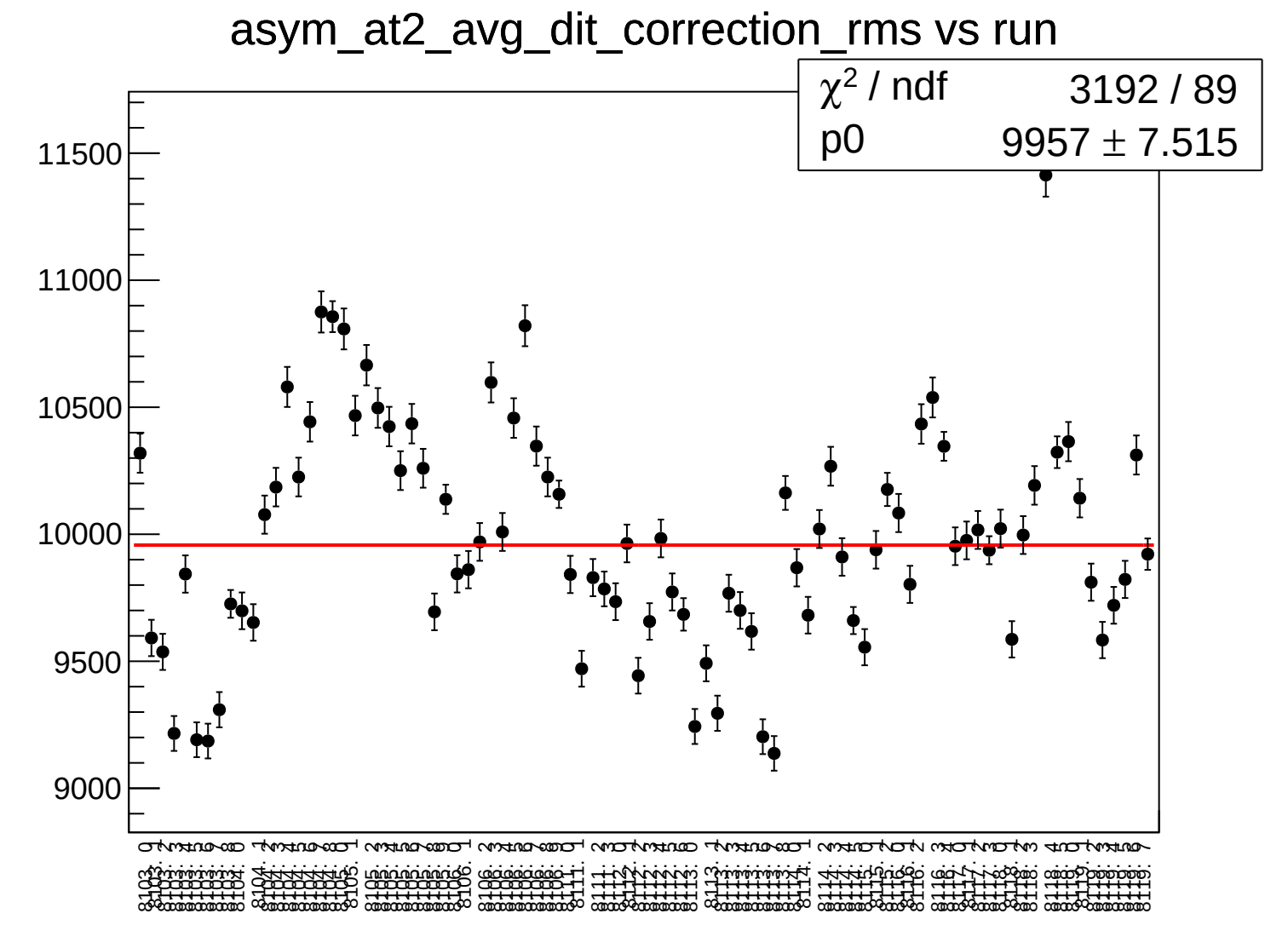

dit_asym_at2_avg_mean vs run
χ² / ndf 81.85 / 89
p0 4027 ± 1698
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1547
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

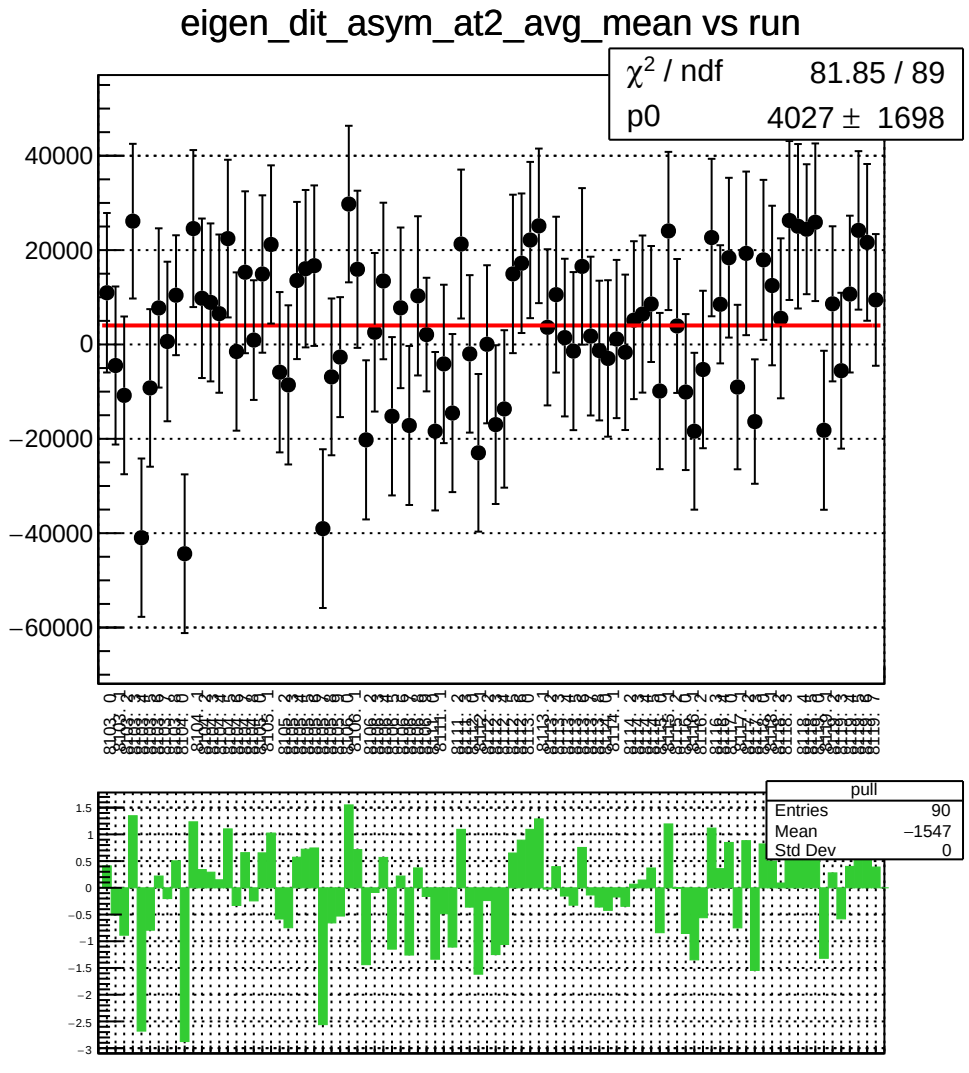

pull1D
Entries 90
Mean −0.002886
Std Dev 0.9537
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

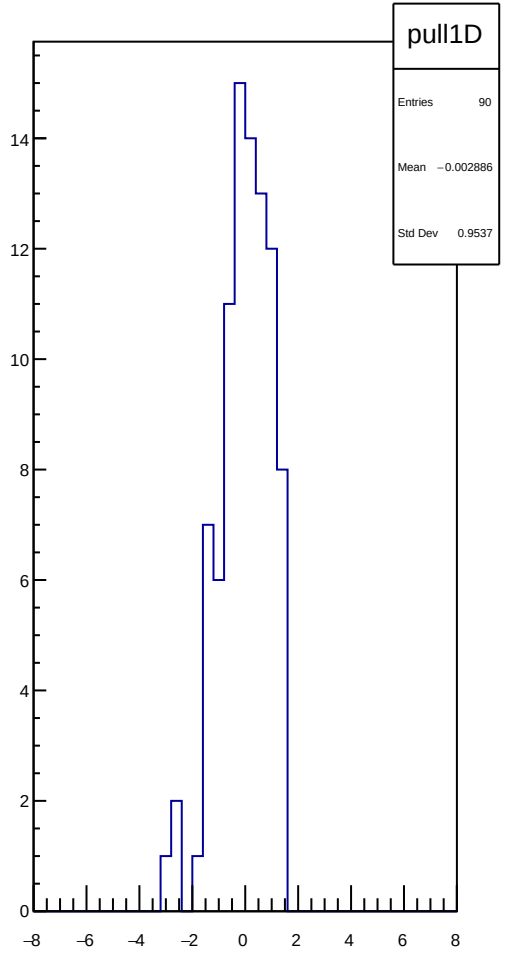

dit_asym_at2_avg_rms vs run
χ² / ndf 299.3 / 89
p0 1592 ± 1.201
1700
1680
1660
1640
1620
1600
1580
1560
1540

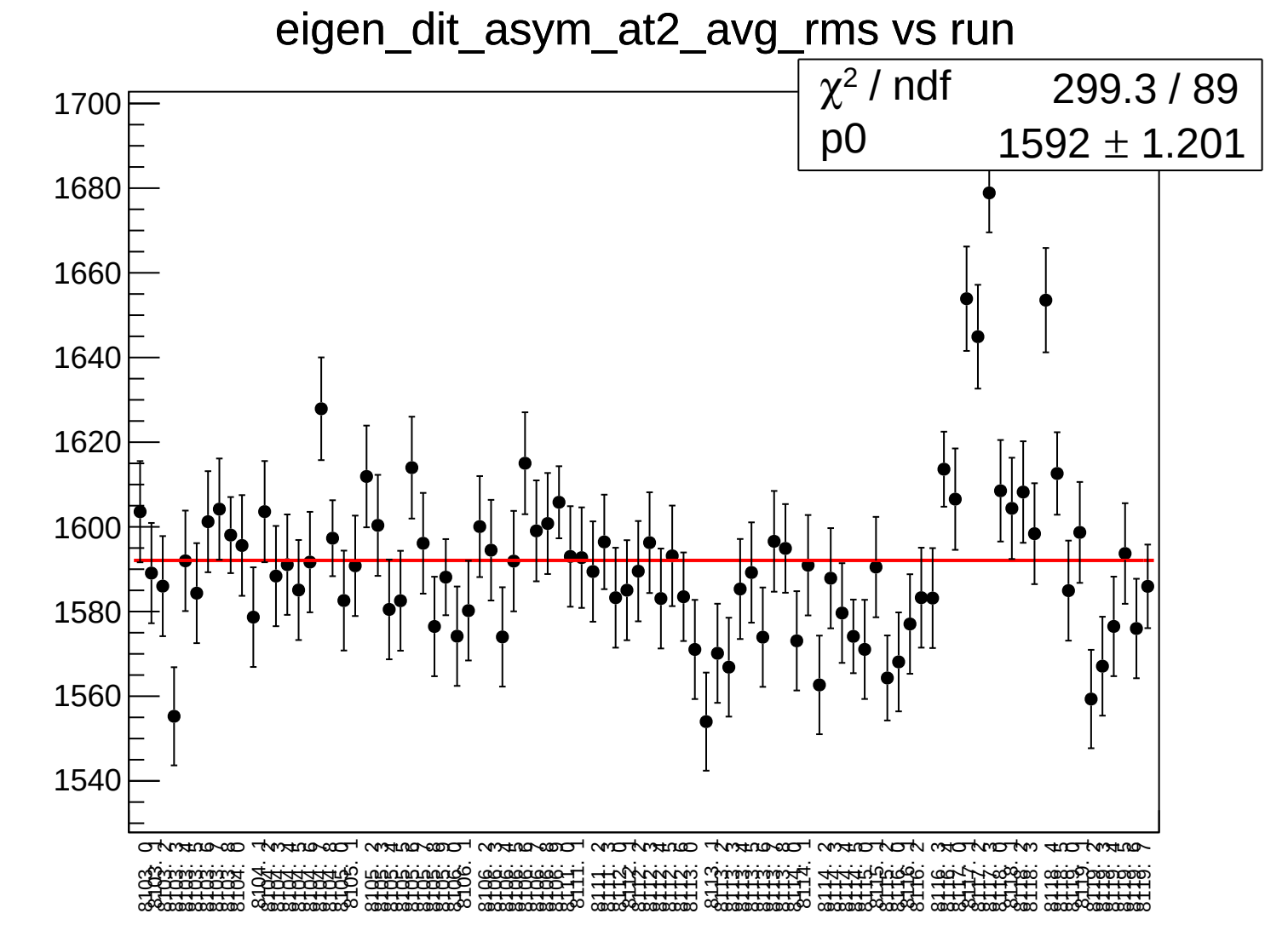

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.29 / 89
p0 1.265e+04 ± 1.063e+04
400
200
0
−200
−400
pull
Entries 90
Mean 1061
Std Dev 0
2
1
0
−1
−2
−3

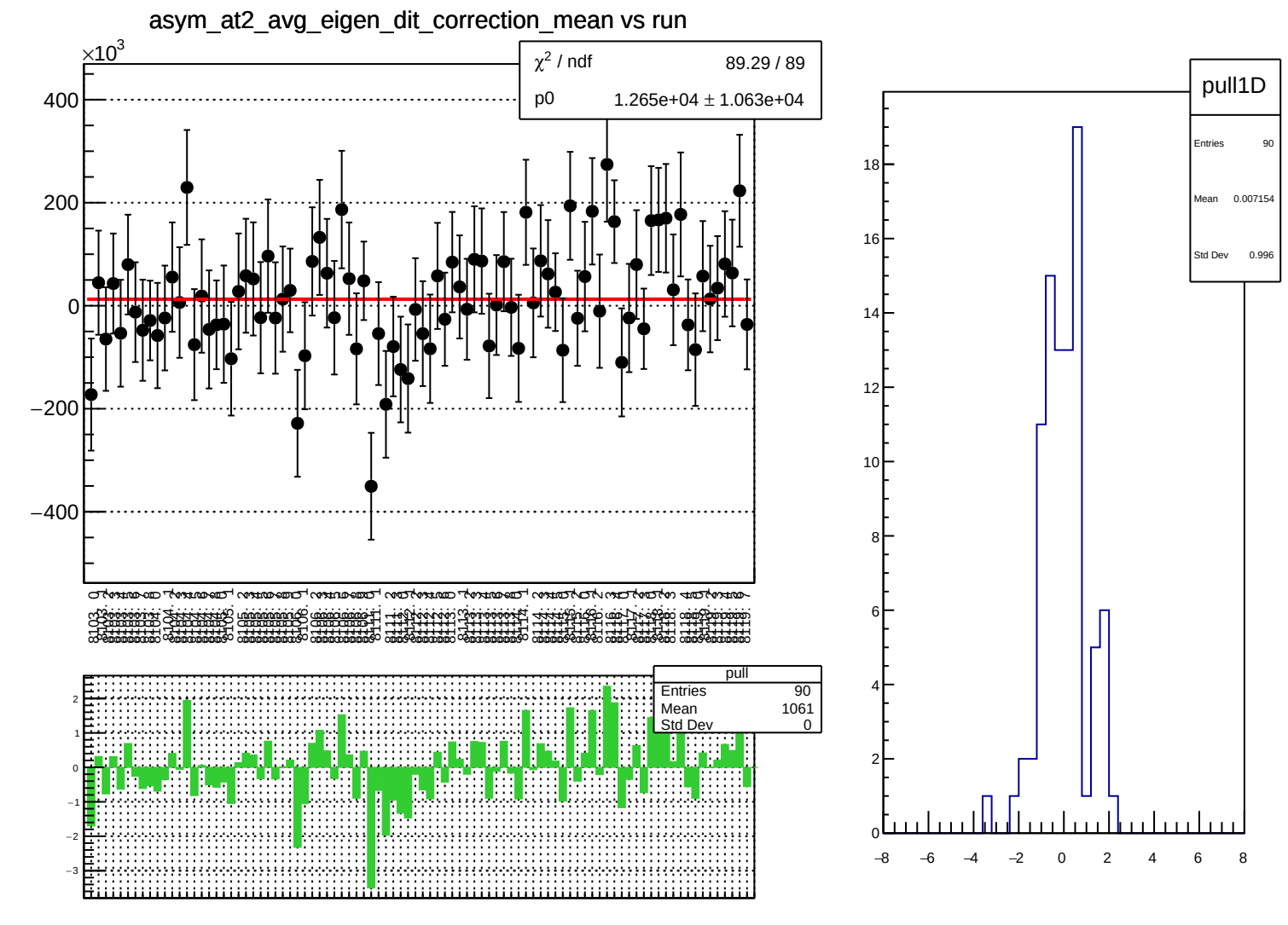

pull1D
Entries 90
Mean 0.007154
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

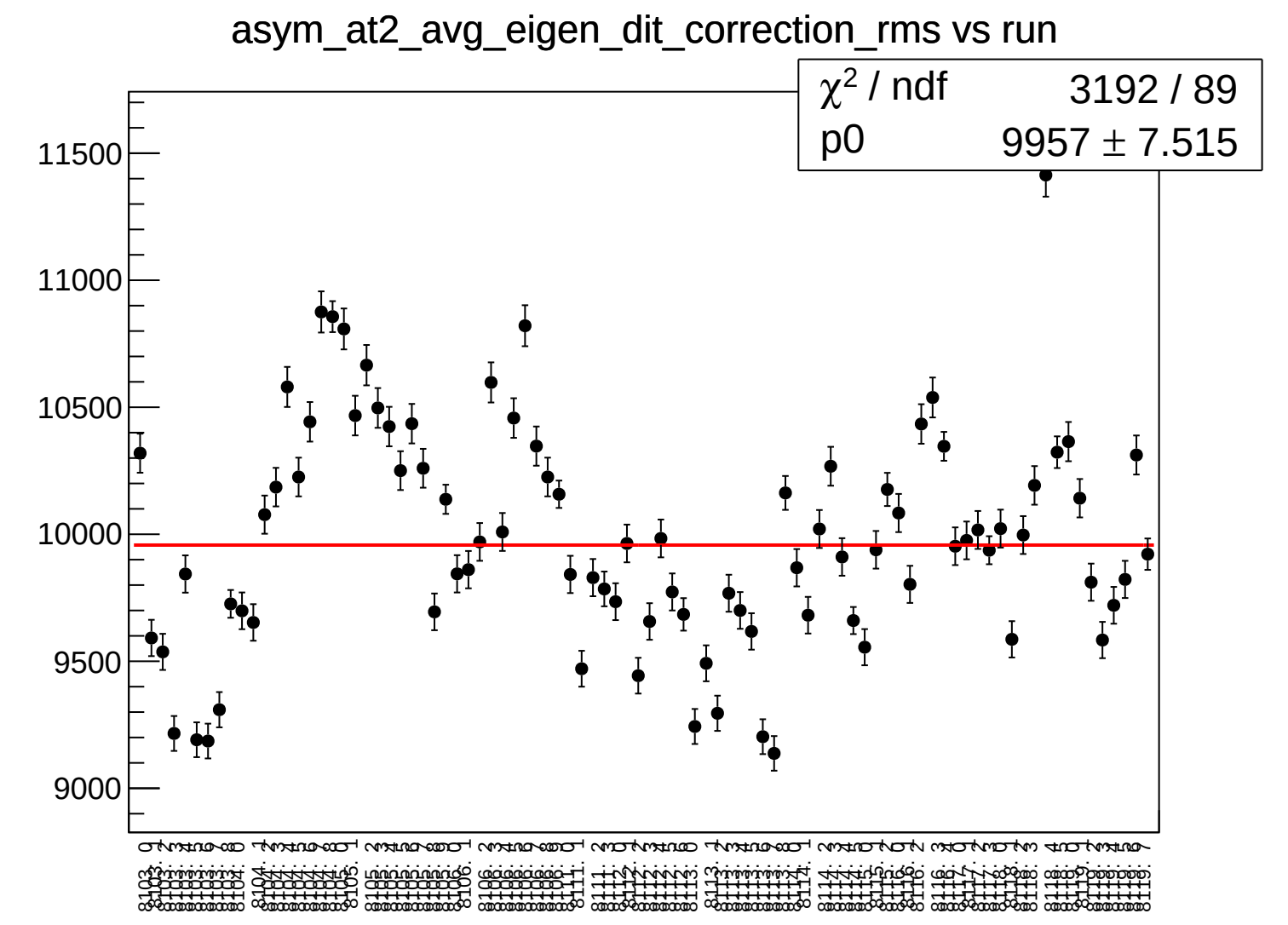

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 3192 / 89
p0 9957 ± 7.515
11500
11000
10500
10000
9500
9000

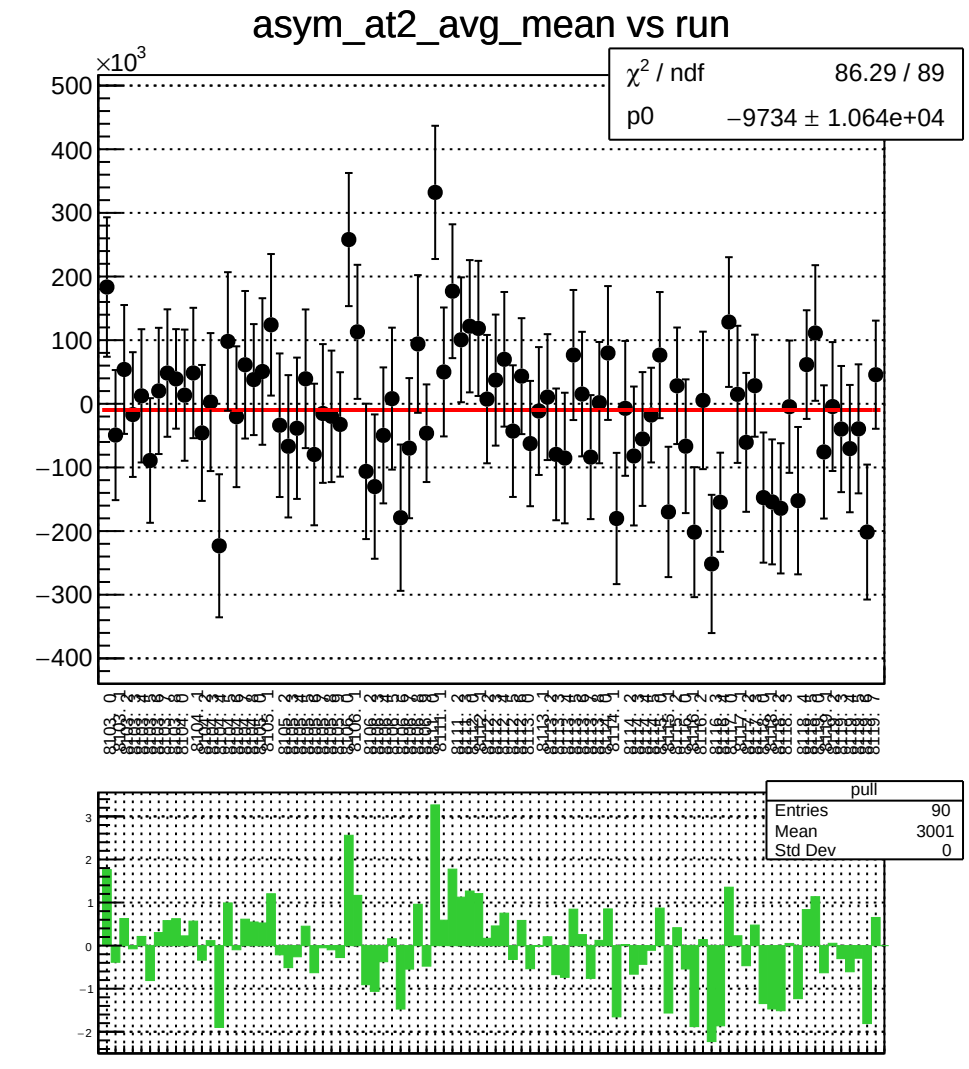

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 81.85 / 89
p0 4027 ± 1698
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1547
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

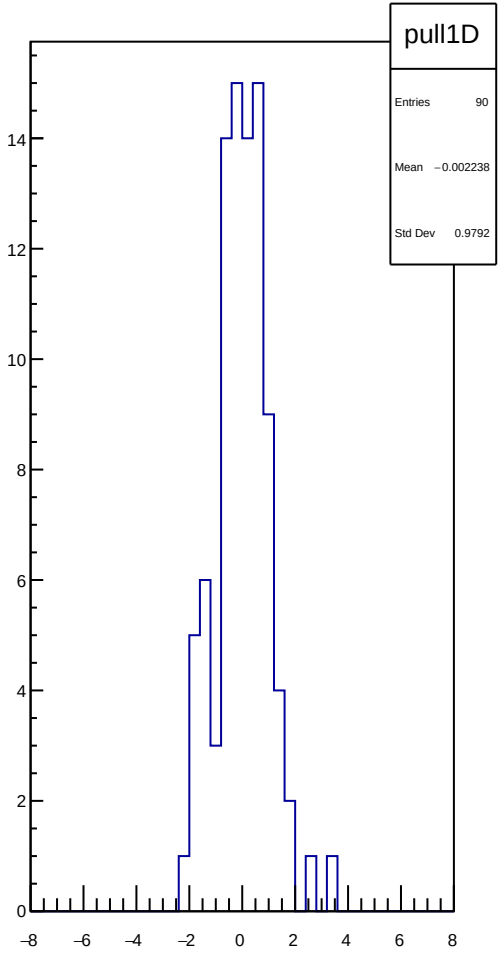

pull1D
Entries 90
Mean −0.002886
Std Dev 0.9537
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

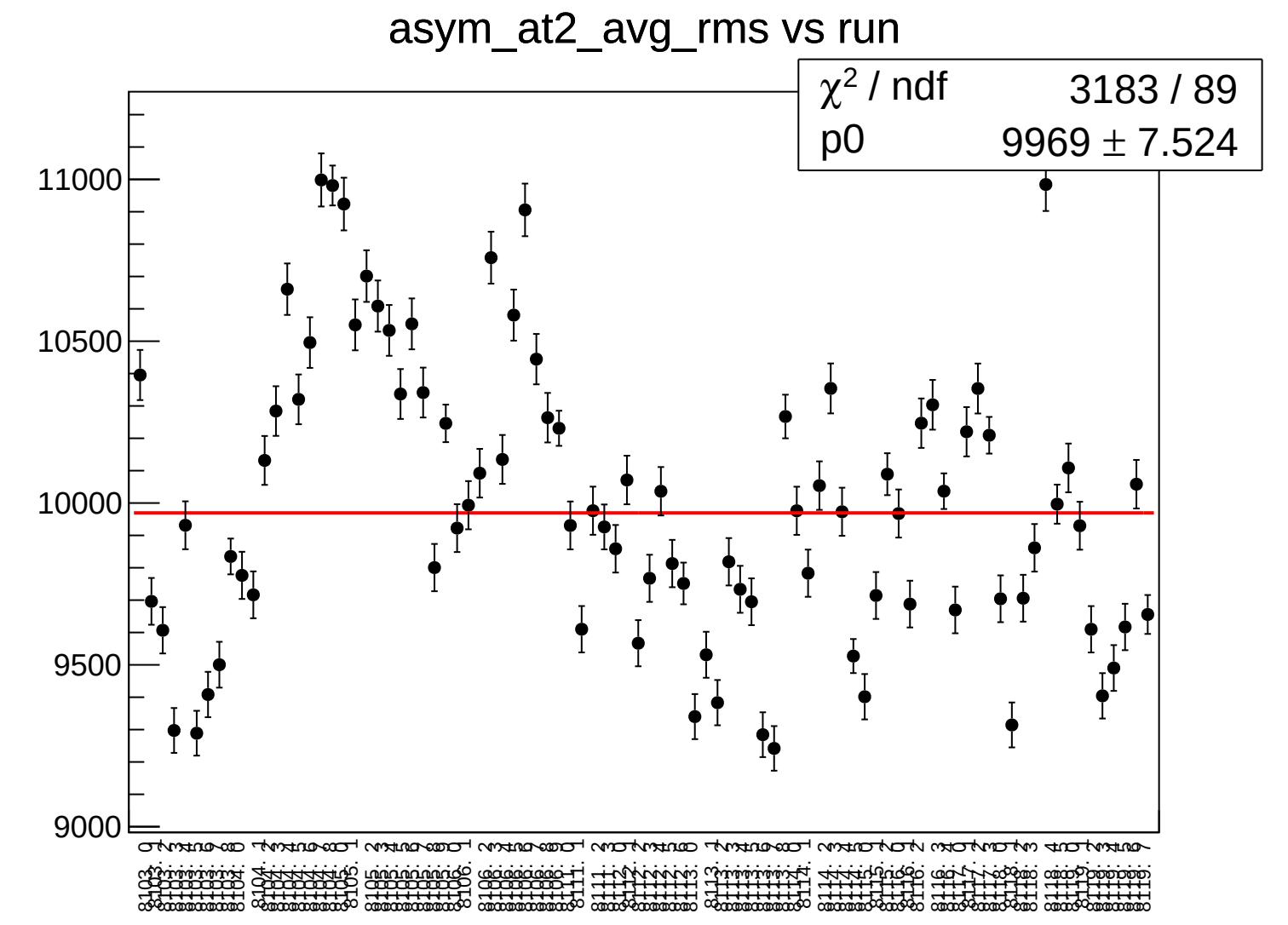

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 299.3 / 89
p0 1592 ± 1.201
1700
1680
1660
1640
1620
1600
1580
1560
1540

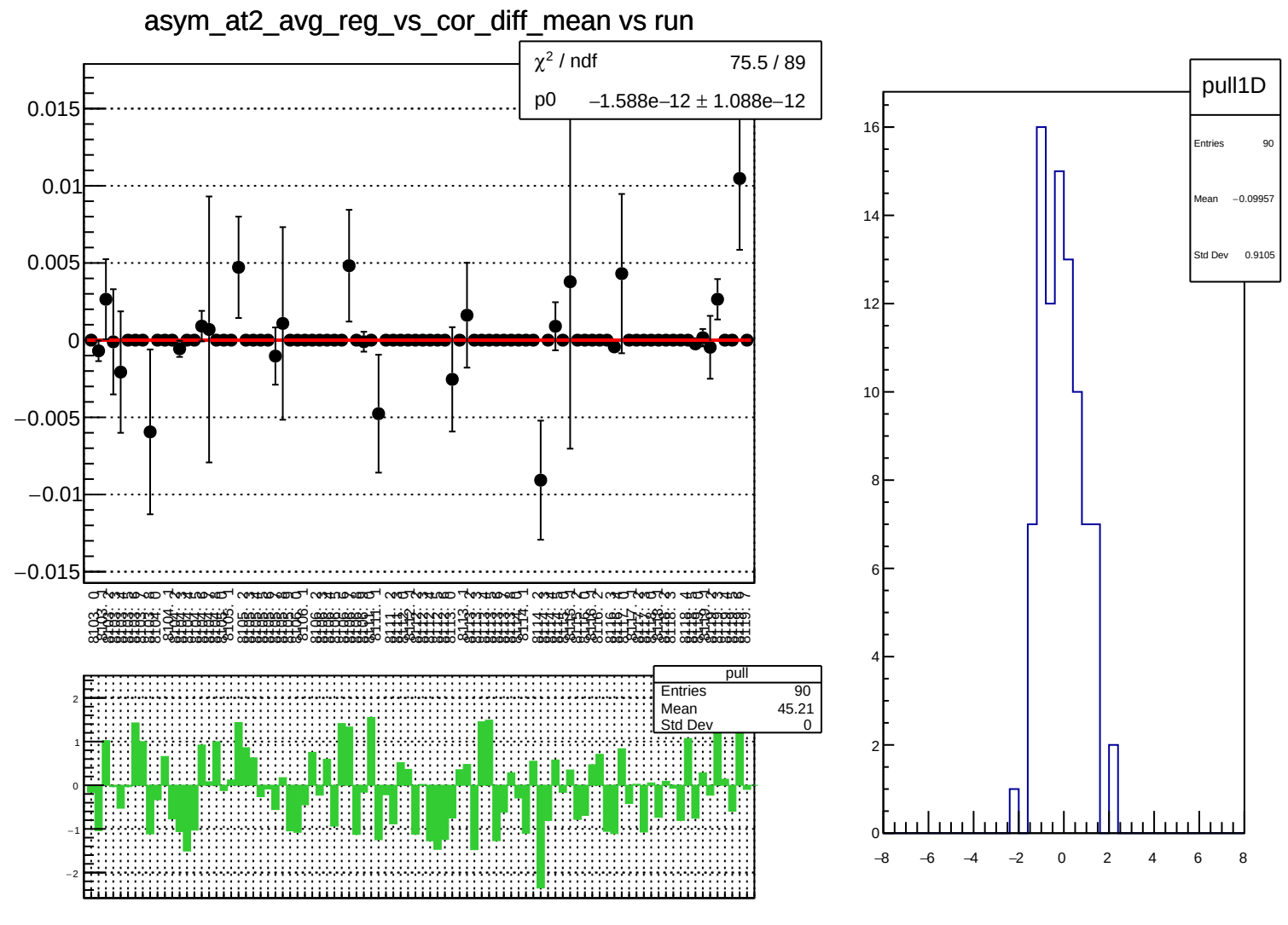

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.29 / 89
p0 1.265e+04 ± 1.063e+04
400
200
0
−200
−400
pull
Entries 90
Mean 1061
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.007154
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

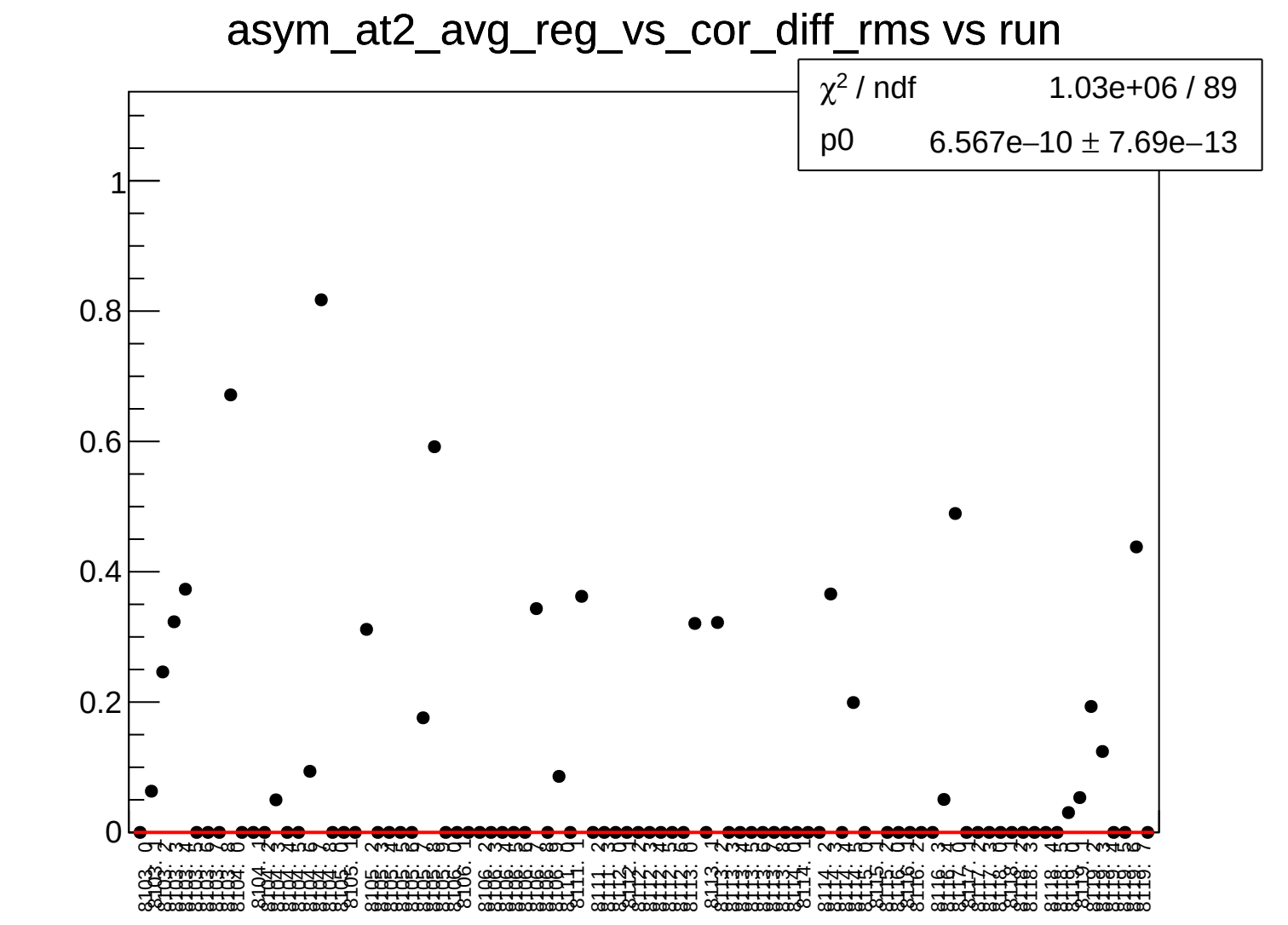

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3192 / 89
p0 9957 ± 7.515
11500
11000
10500
10000
9500
9000

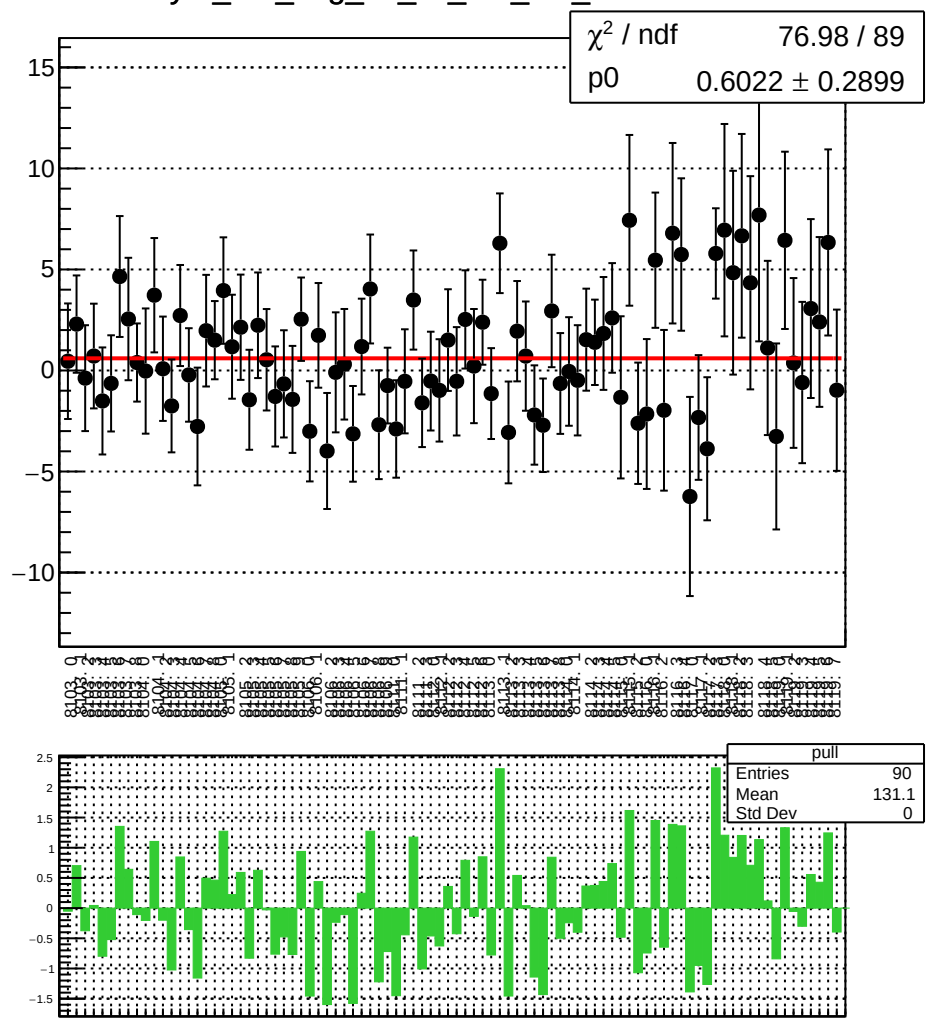

asym_at2_avg_mean vs run
×10^3
χ² / ndf 86.29 / 89
p0 −9734 ± 1.064e+04
pull
Entries 90
Mean 3001
Std Dev 0

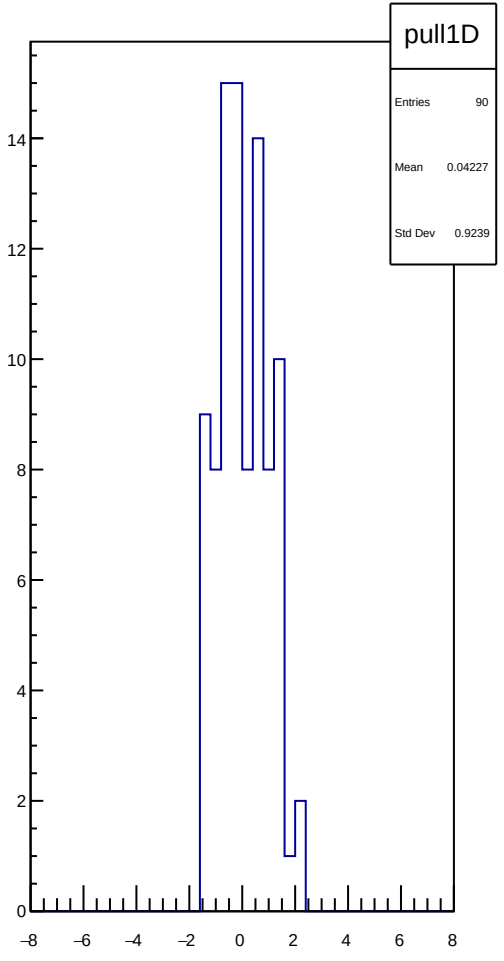

pull1D
Entries 90
Mean −0.002238
Std Dev 0.9792

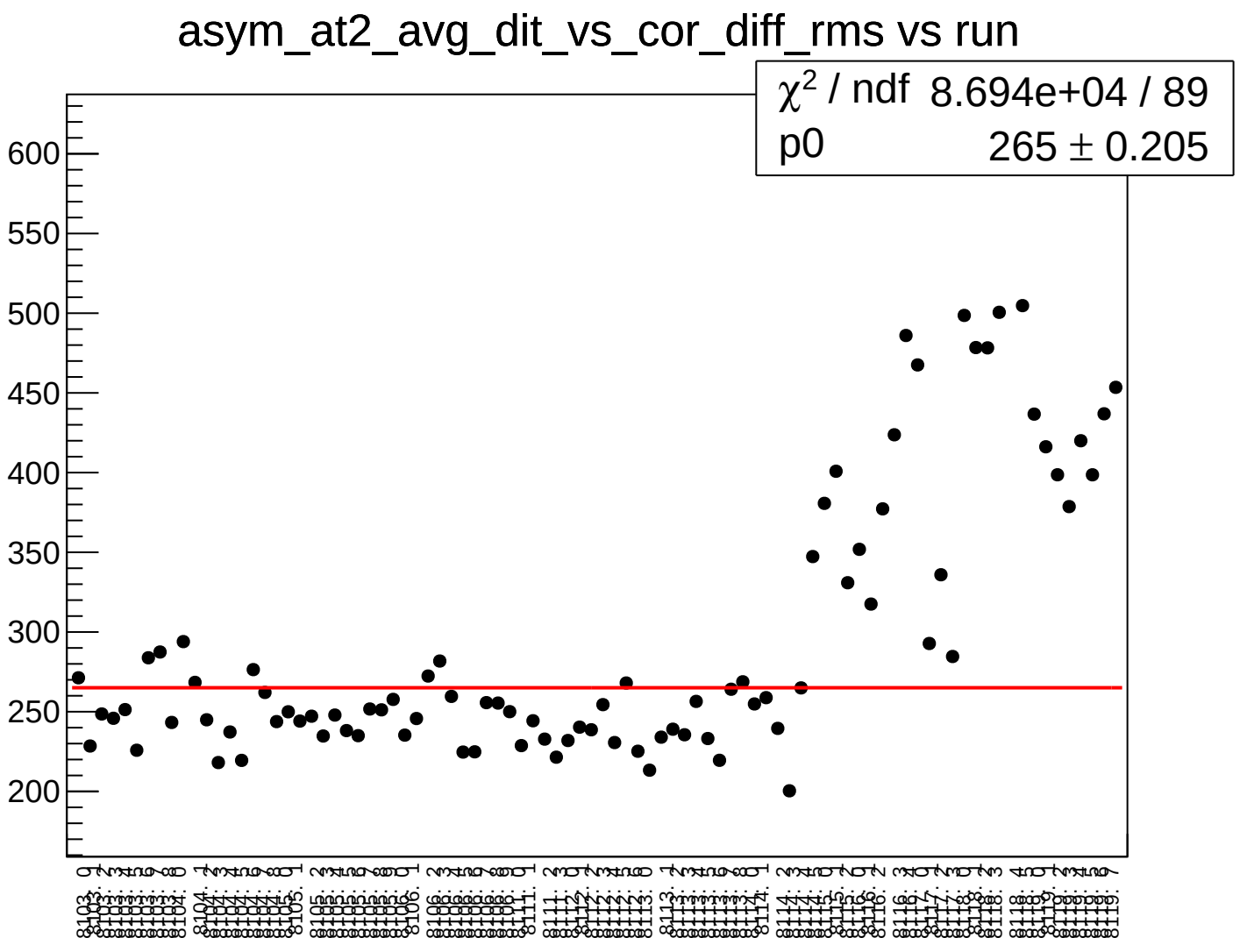

asym_at2_avg_rms vs run
χ² / ndf 3183 / 89
p0 9969 ± 7.524
11000
10500
10000
9500
9000

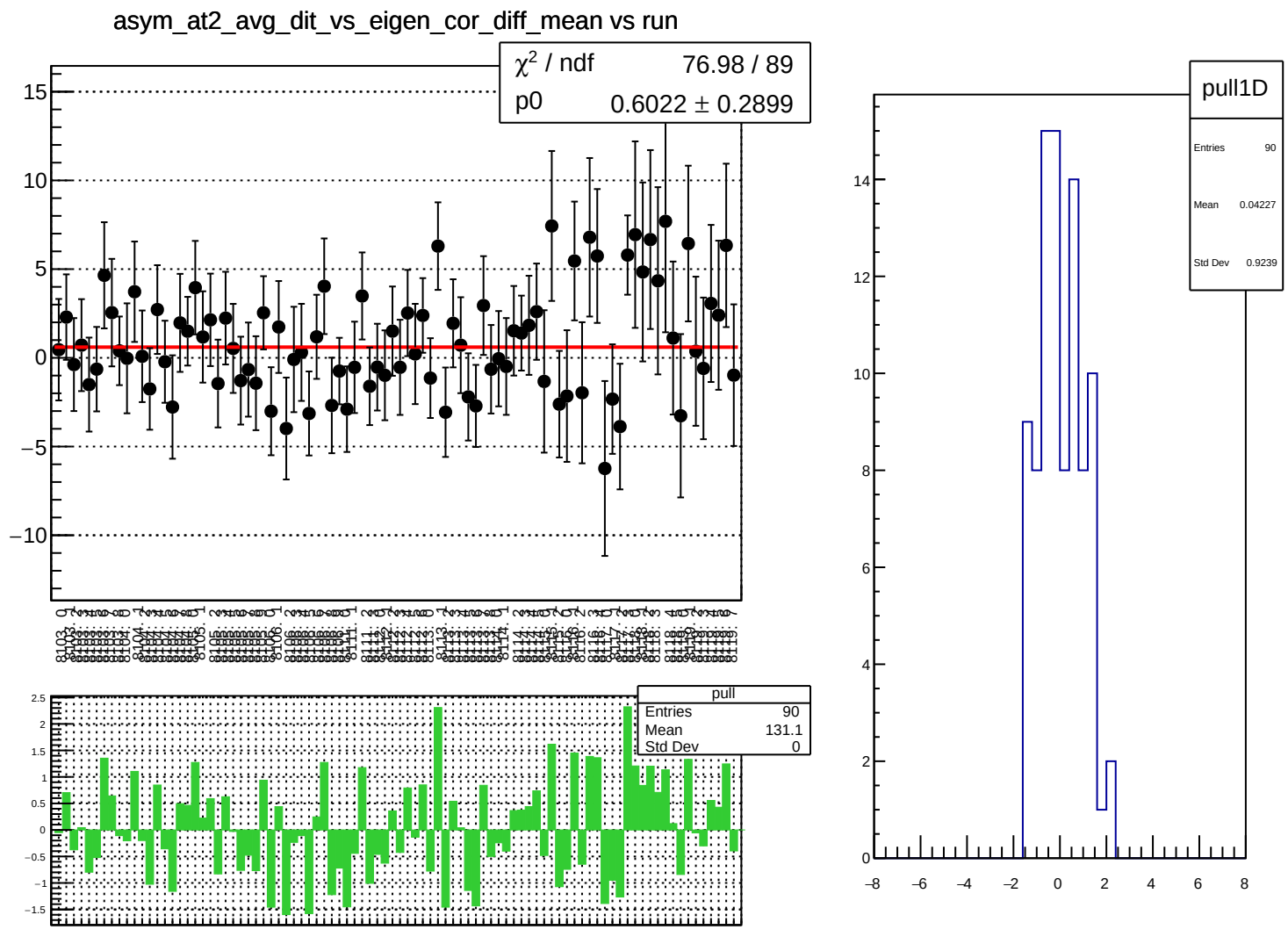

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.5 / 89
p0 −1.588e−12 ± 1.088e−12
pull
Entries 90
Mean 45.21
Std Dev 0
pull1D
Entries 90
Mean −0.09957
Std Dev 0.9105

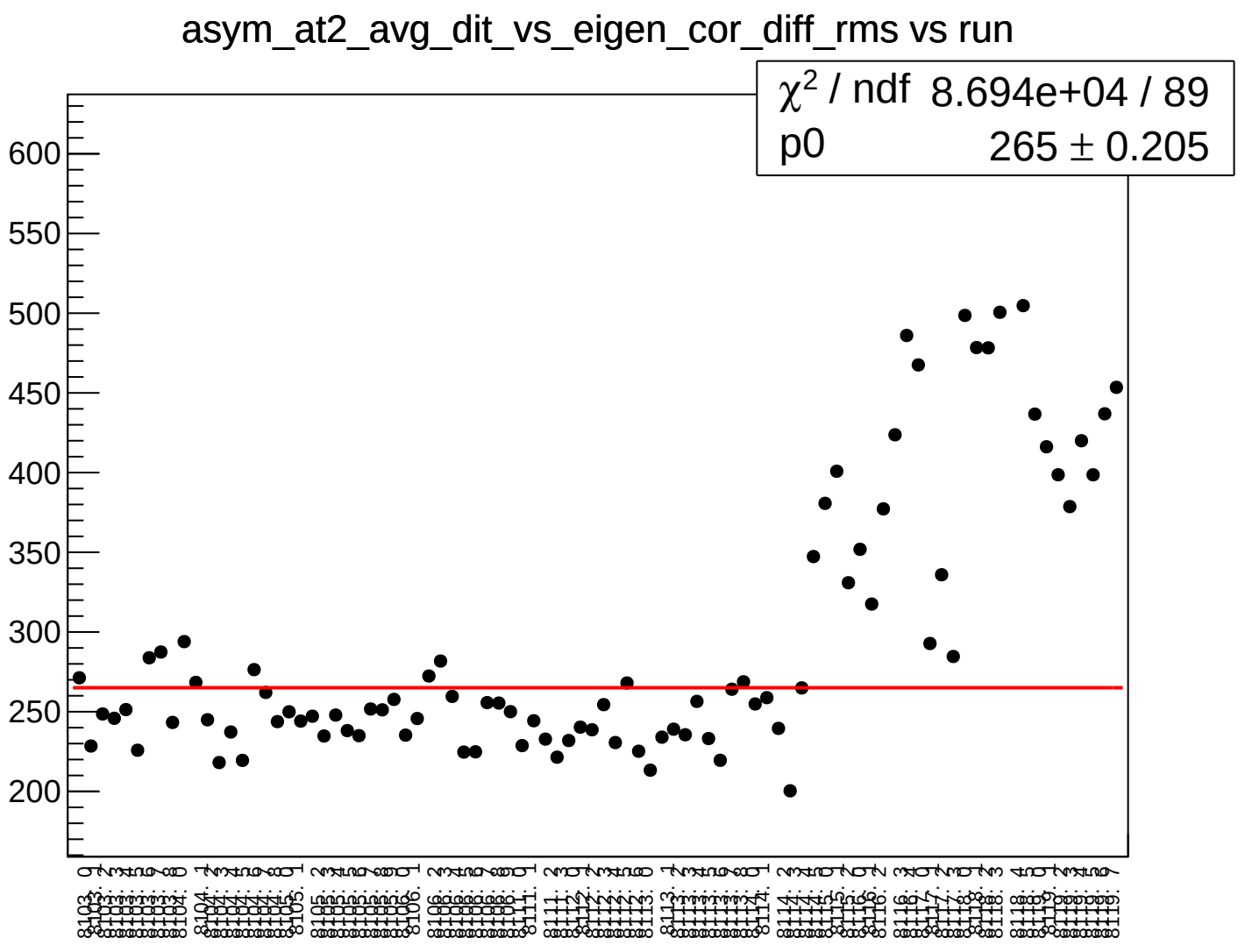

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 89
p0 6.567e−10 ± 7.69e−13
1
0.8
0.6
0.4
0.2
0

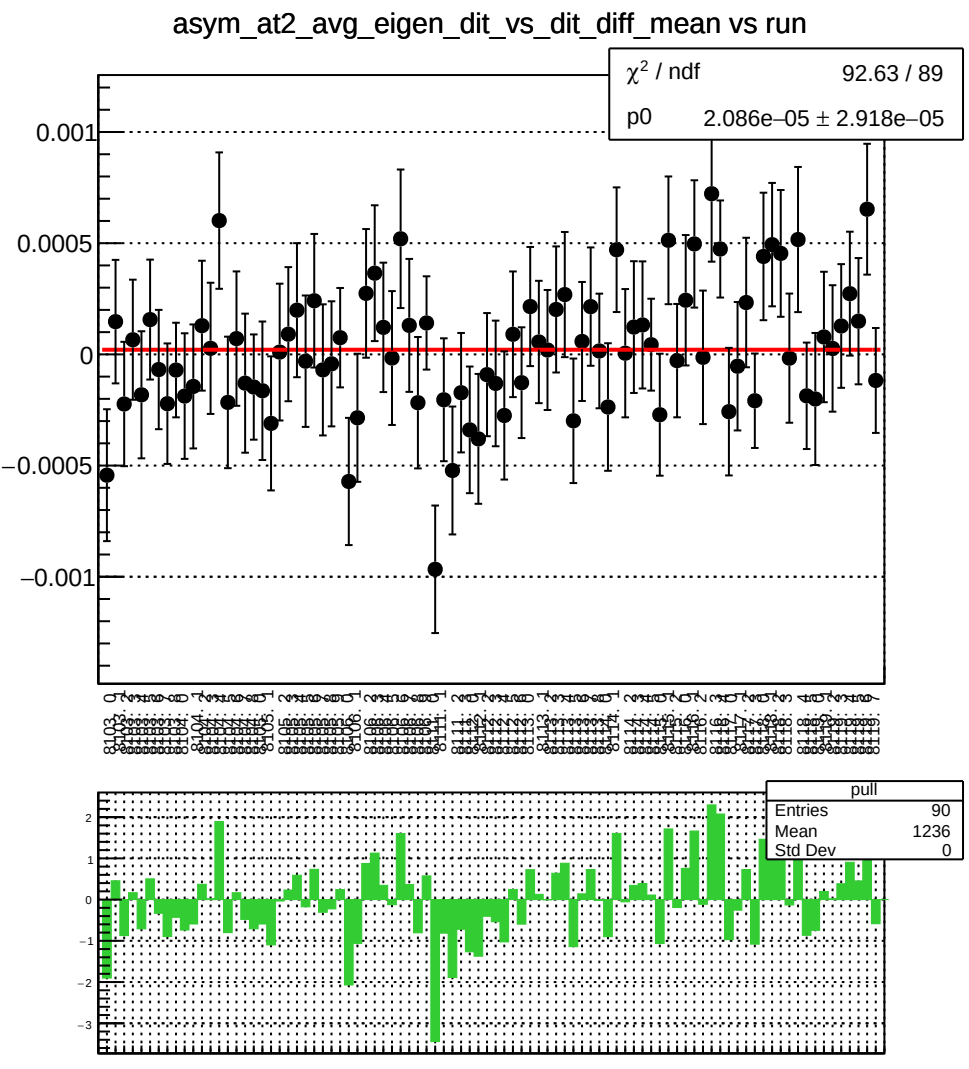

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.98 / 89
p0 0.6022 ± 0.2899
pull
Entries 90
Mean 131.1
Std Dev 0

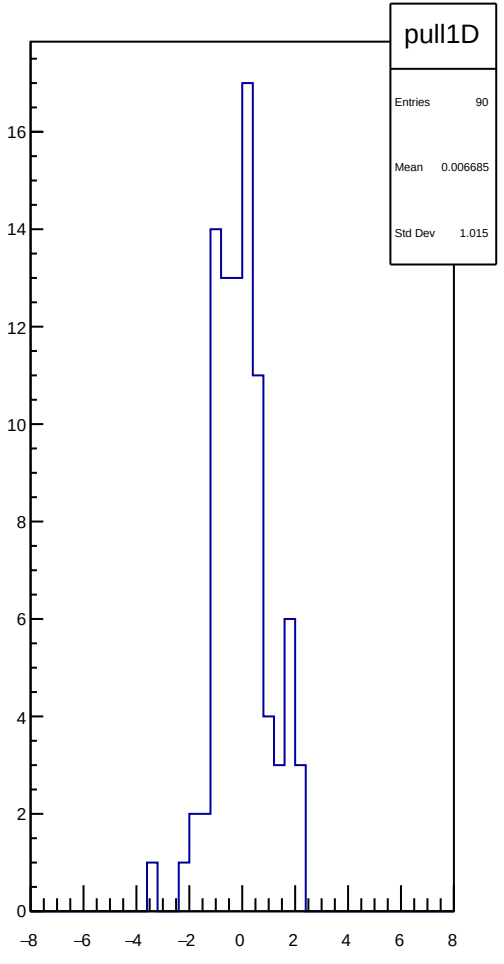

pull1D
Entries 90
Mean 0.04227
Std Dev 0.9239

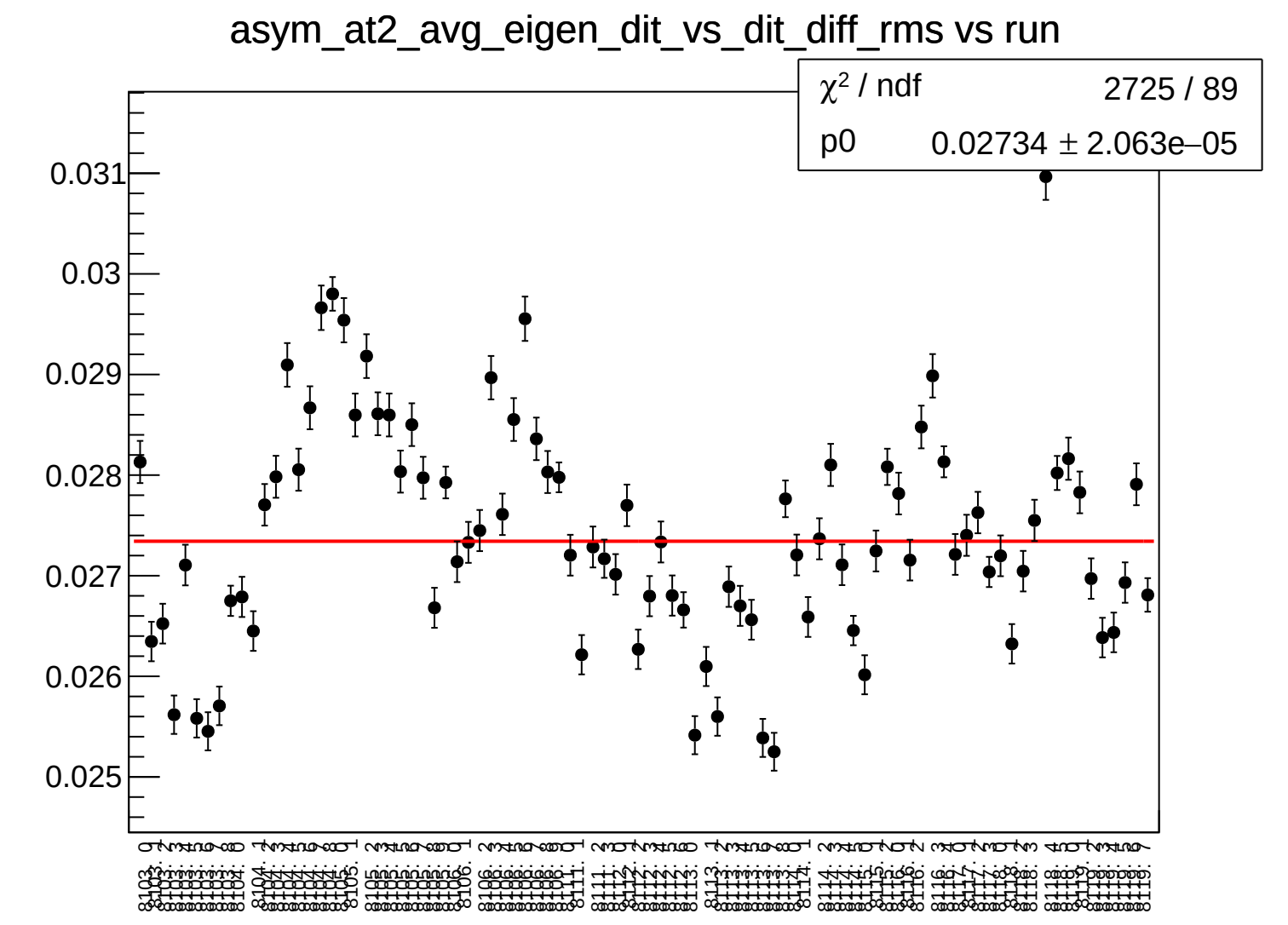

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.694e+04 / 89
p0 265 ± 0.205
600
550
500
450
400
350
300
250
200

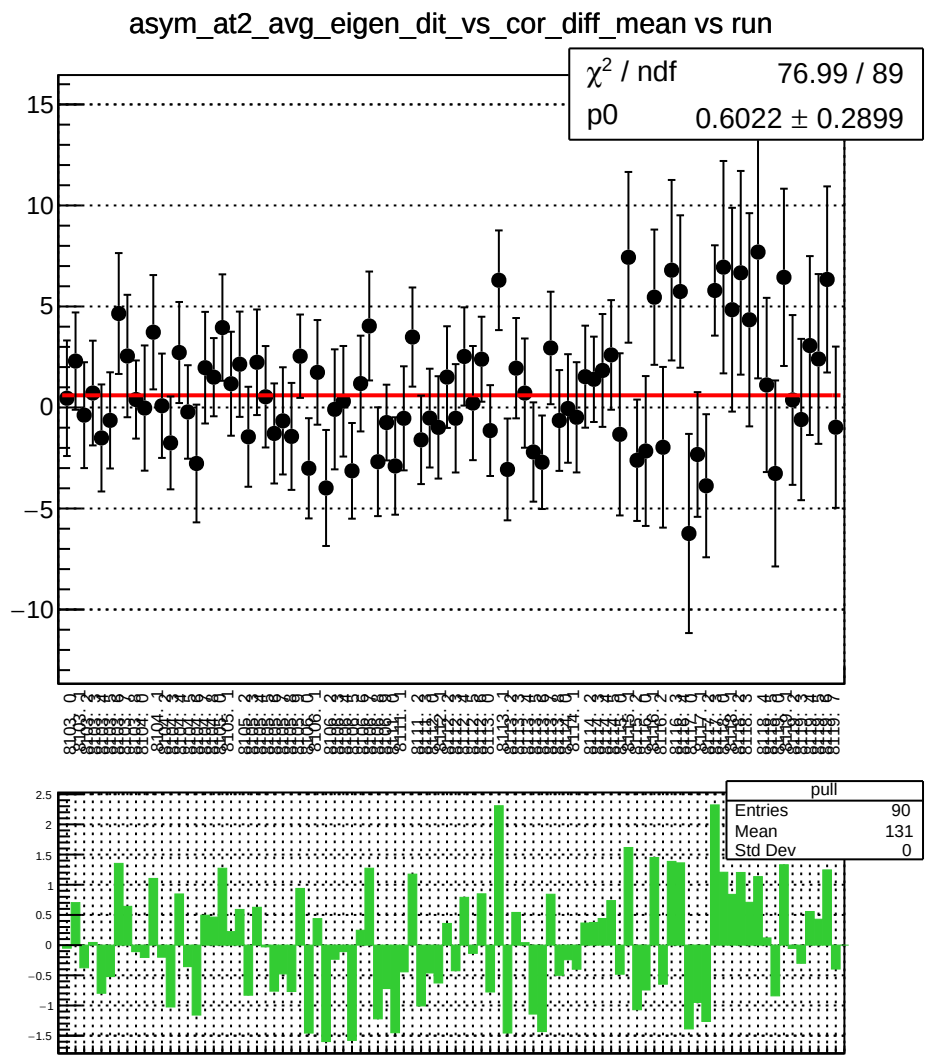

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.98 / 89
p0 0.6022 ± 0.2899
pull
Entries 90
Mean 131.1
Std Dev 0
pull1D
Entries 90
Mean 0.04227
Std Dev 0.9239

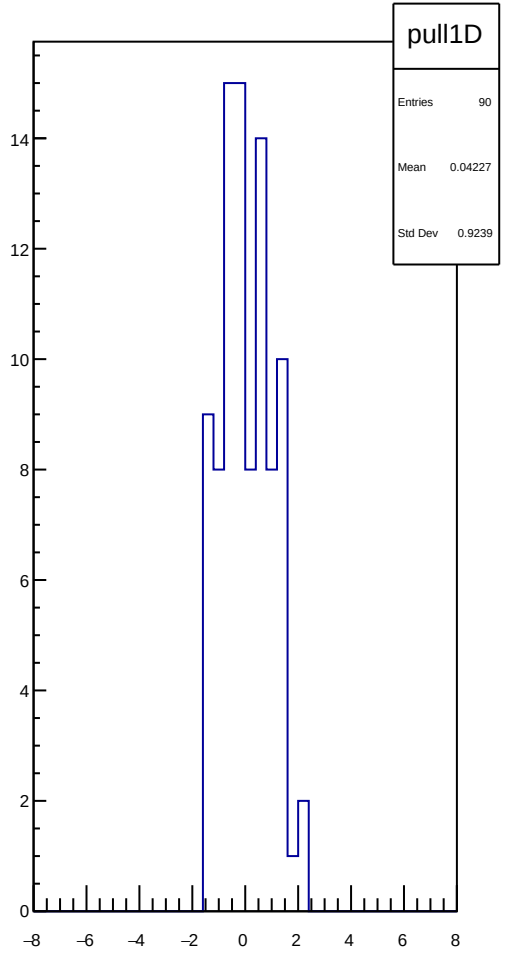

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.694e+04 / 89
p0 265 ± 0.205
600
550
500
450
400
350
300
250
200

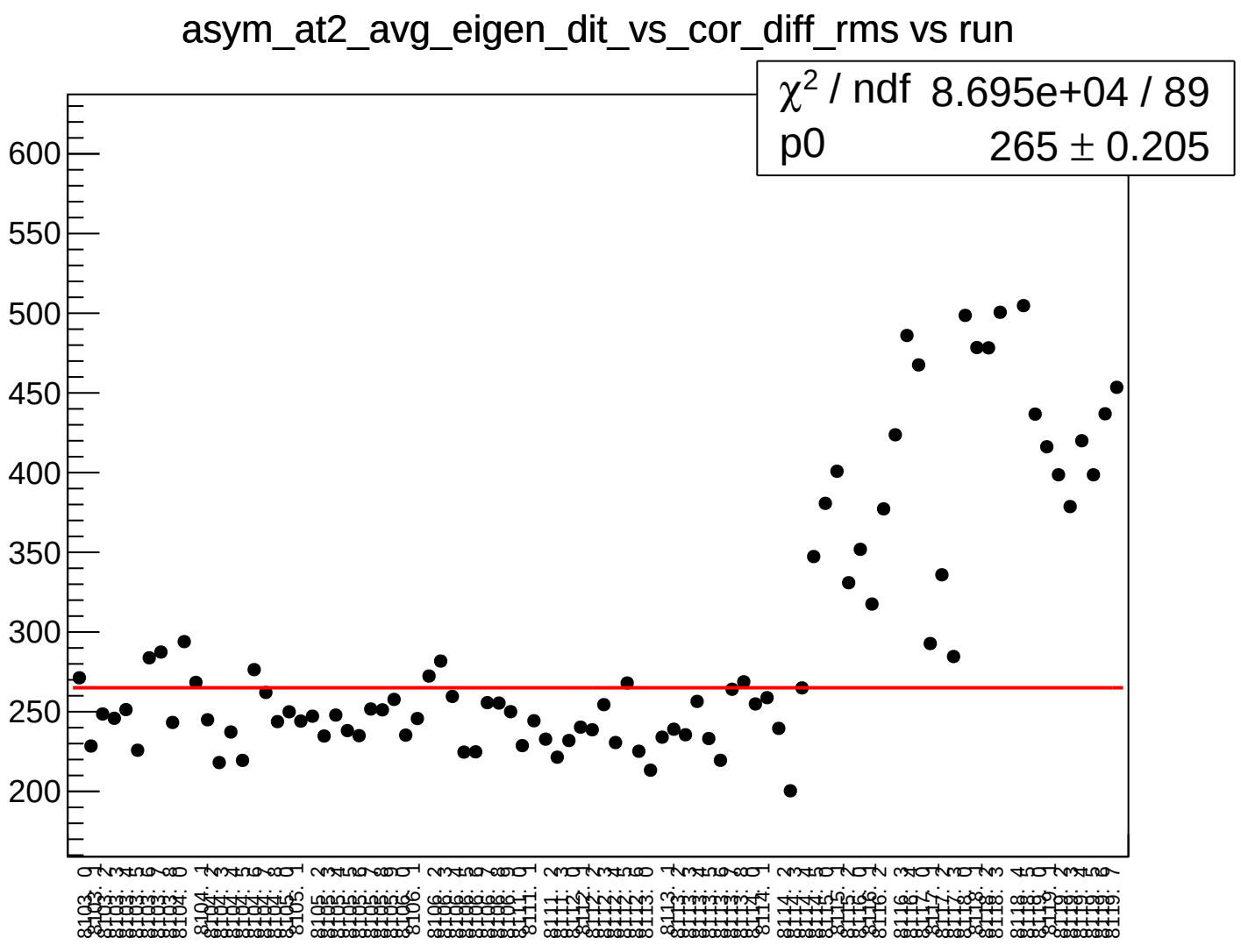

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.63 / 89
p0 2.086e−05 ± 2.918e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 1236
Std Dev 0

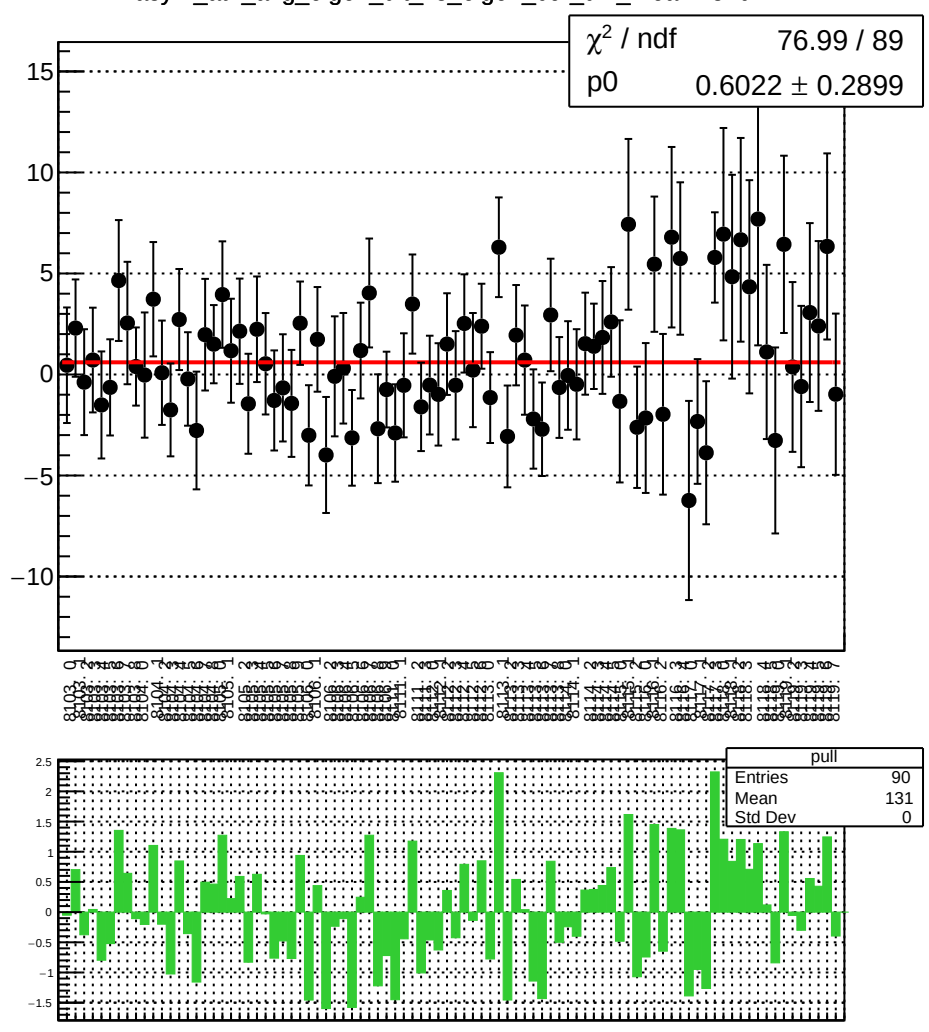

pull1D
Entries 90
Mean 0.006685
Std Dev 1.015

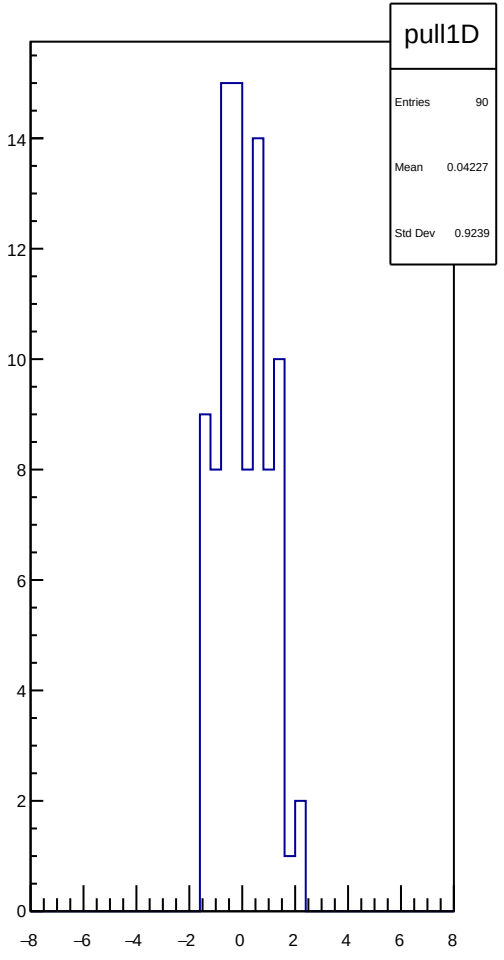

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2725 / 89
p0 0.02734 ± 2.063e−05
0.031
0.03
0.029
0.028
0.027
0.026
0.025

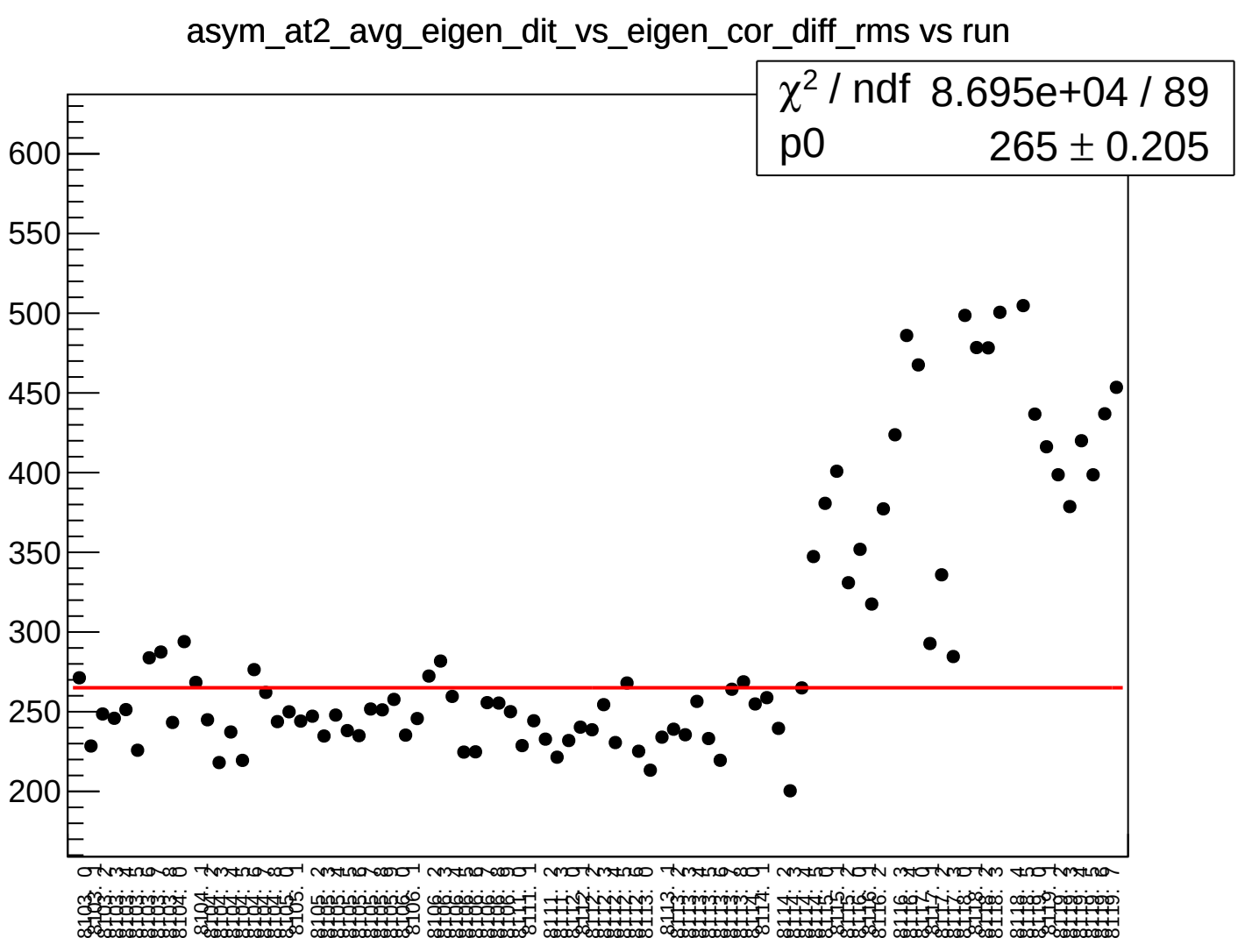

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.99 / 89
p0 0.6022 ± 0.2899
pull
Entries 90
Mean 131
Std Dev 0

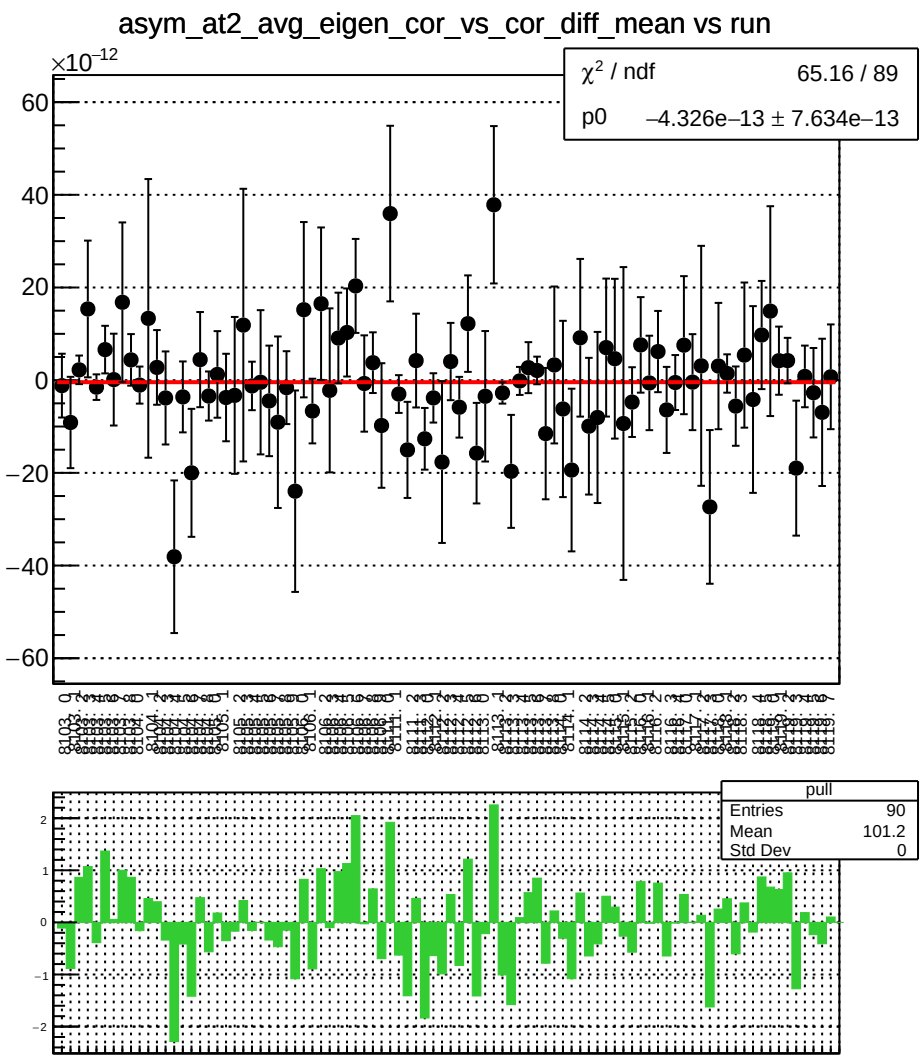

pull1D
Entries 90
Mean 0.04227
Std Dev 0.9239

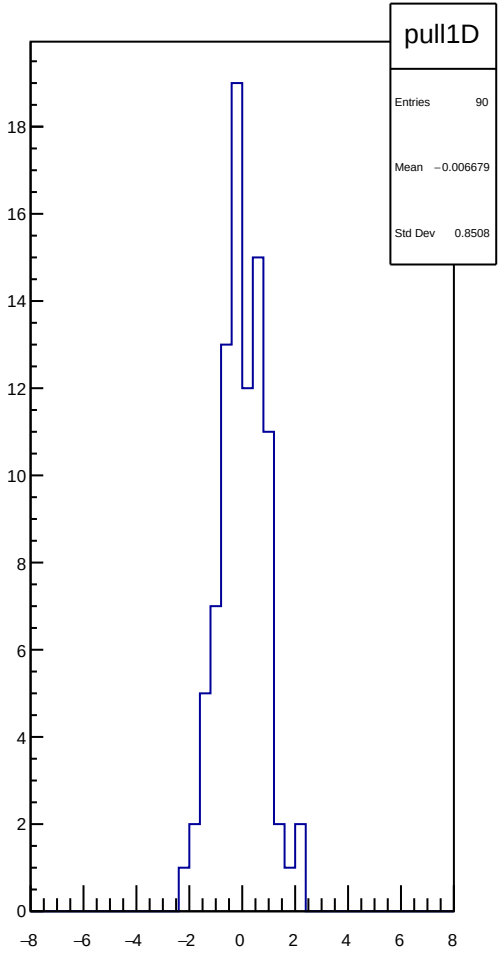

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.695e+04 / 89
p0 265 ± 0.205
600
550
500
450
400
350
300
250
200

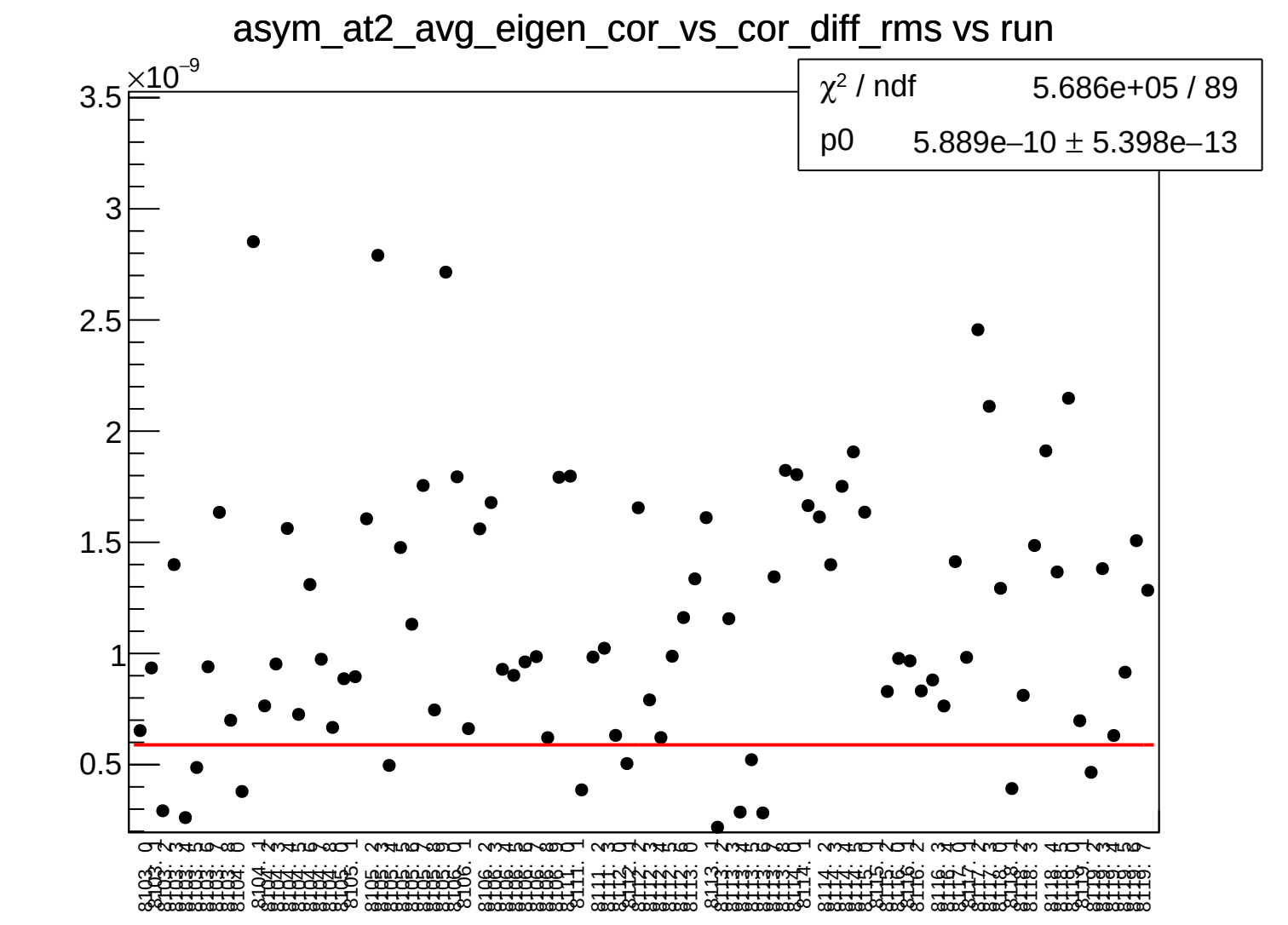

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.99 / 89
p0 0.6022 ± 0.2899
pull
Entries 90
Mean 131
Std Dev 0

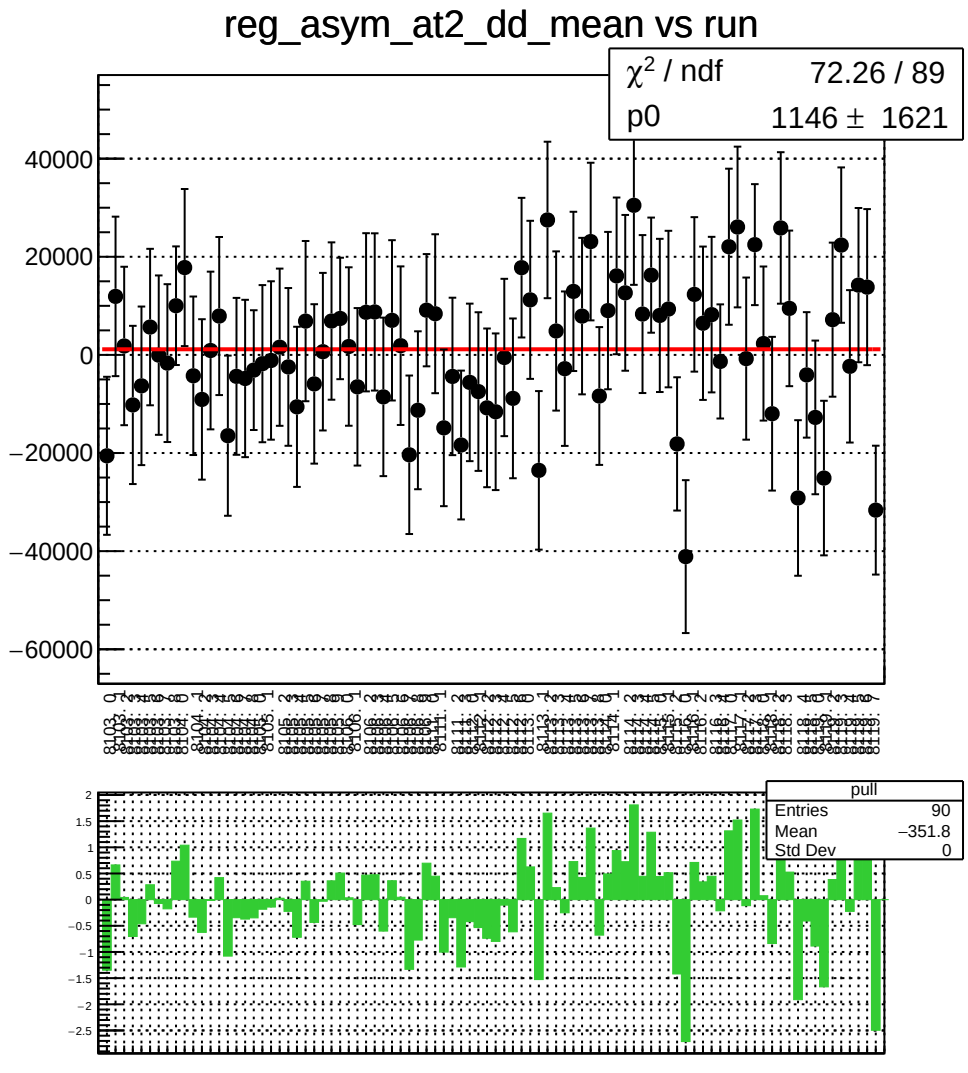

pull1D
Entries 90
Mean 0.04227
Std Dev 0.9239

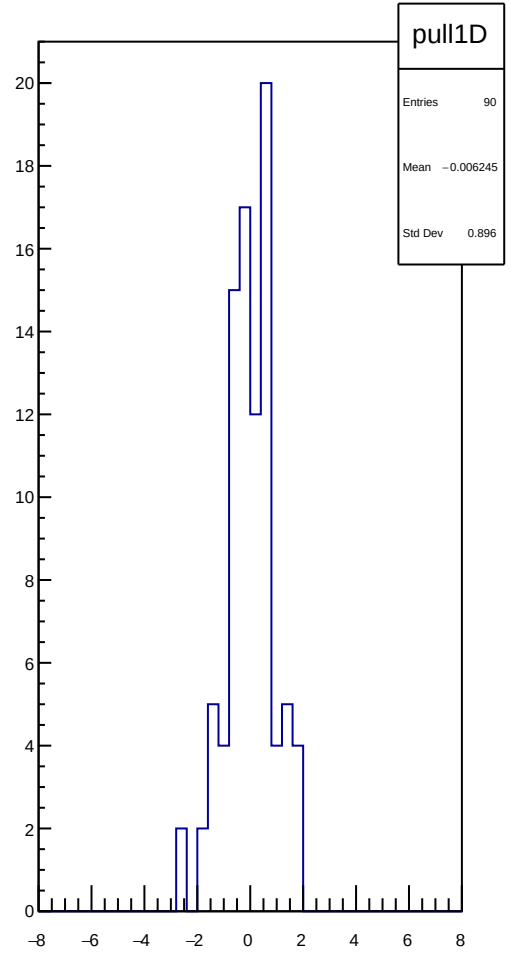

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.695e+04 / 89
p0 265 ± 0.205
600
550
500
450
400
350
300
250
200

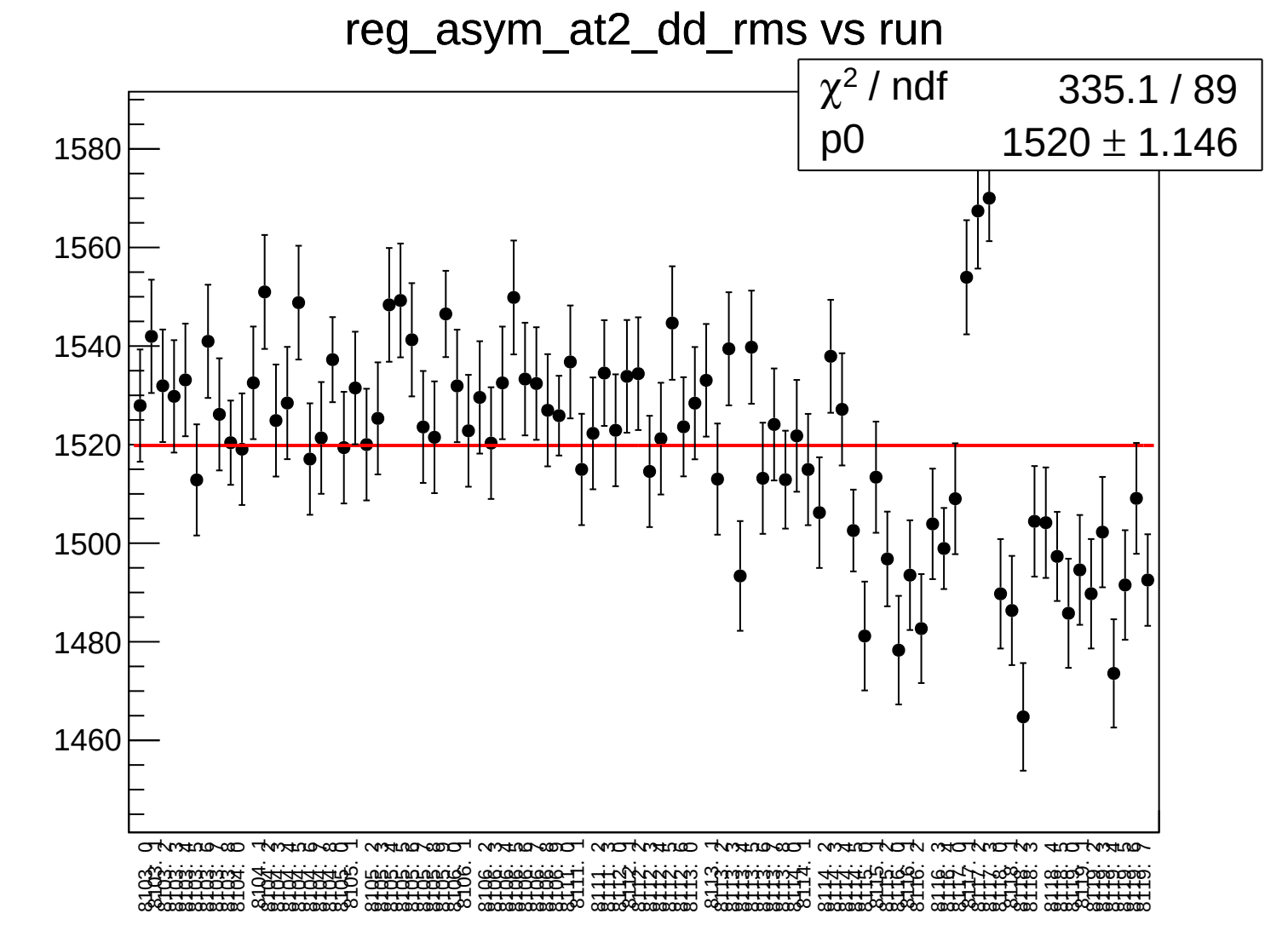

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.16 / 89
p0 −4.326e−13 ± 7.634e−13
pull
Entries 90
Mean 101.2
Std Dev 0

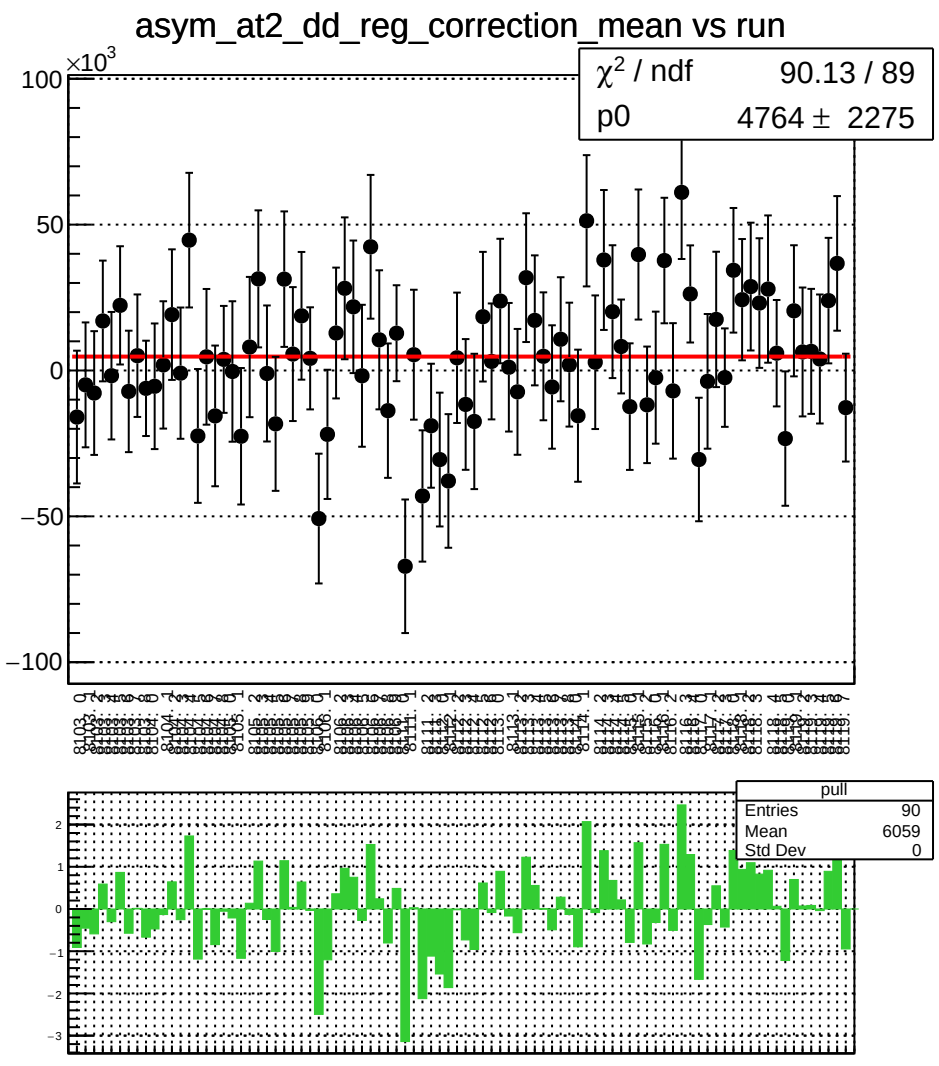

pull1D
Entries 90
Mean −0.006679
Std Dev 0.8508

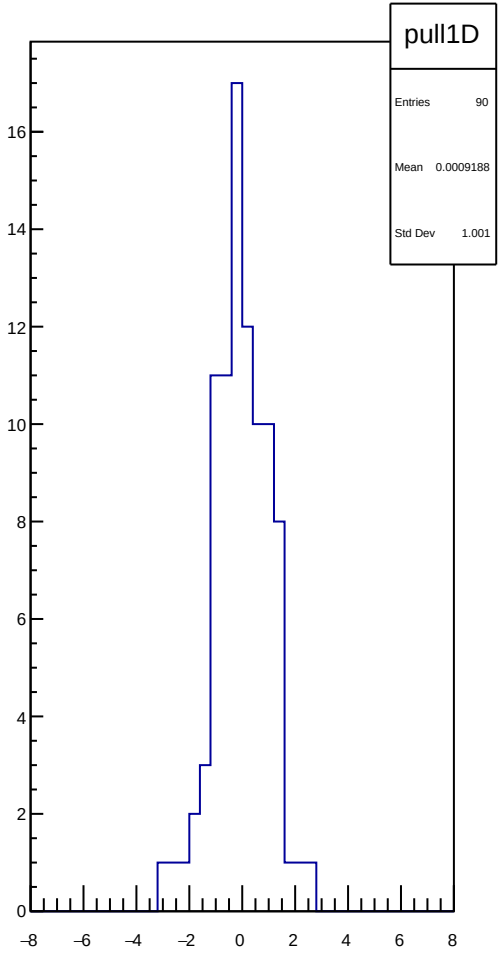

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 5.686e+05 / 89
p0 5.889e−10 ± 5.398e−13

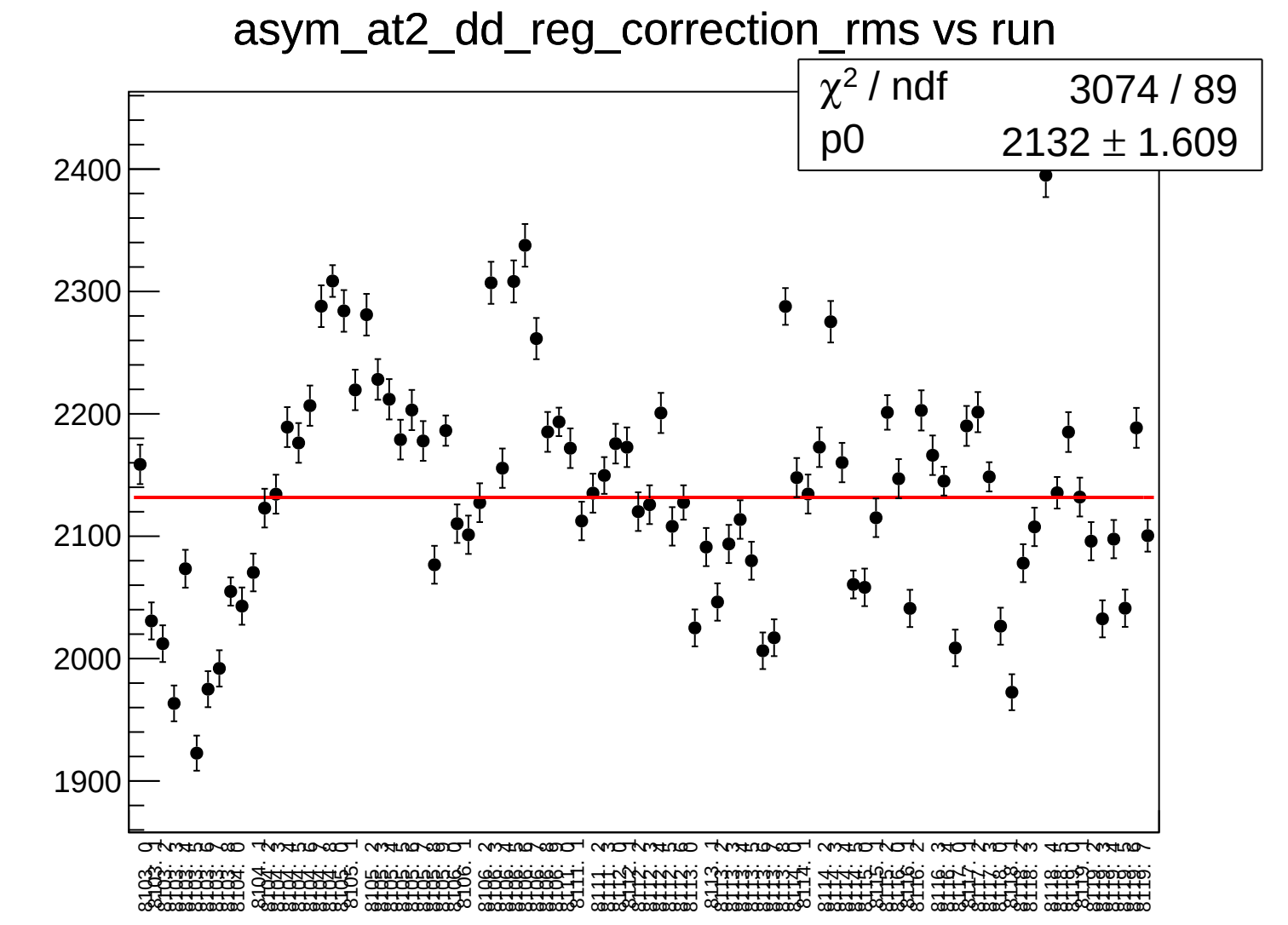

reg_asym_at2_dd_mean vs run
χ² / ndf 72.26 / 89
p0 1146 ± 1621
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −351.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

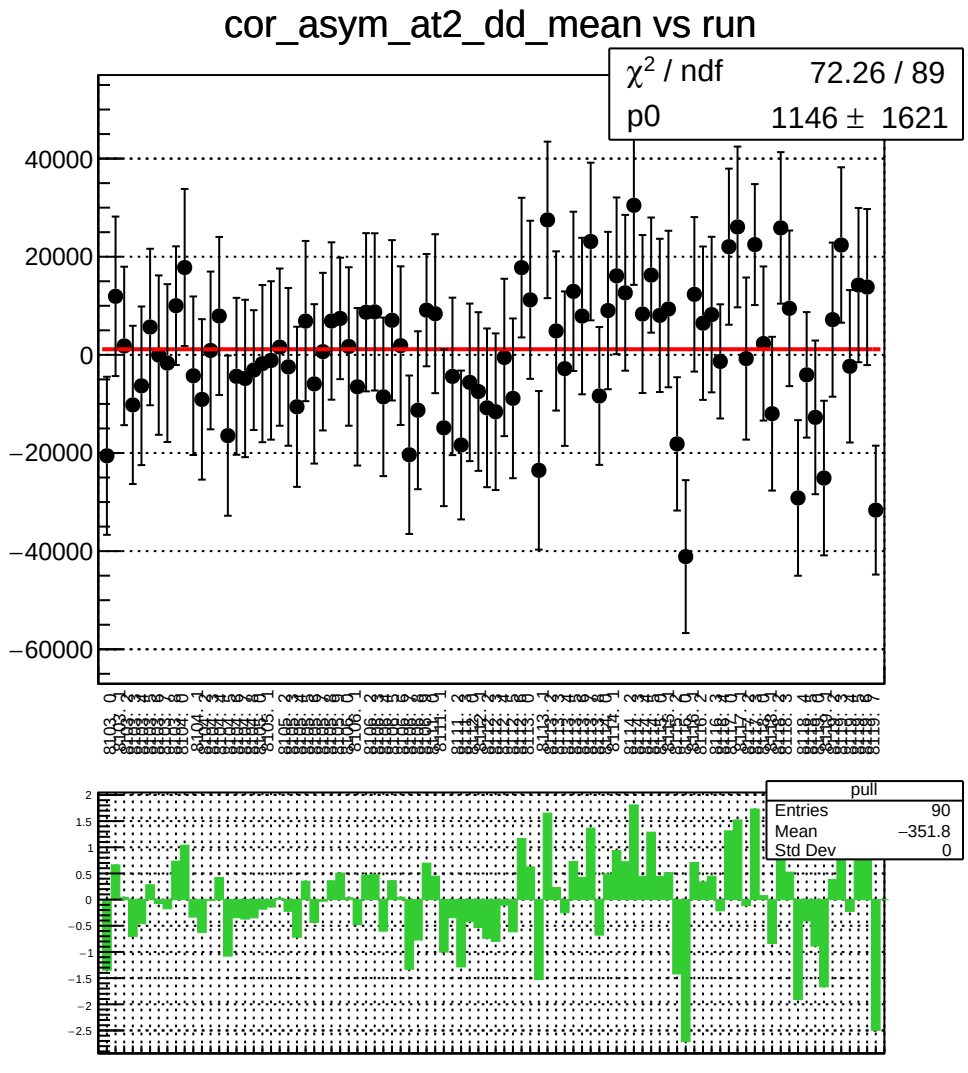

pull1D
Entries 90
Mean −0.006245
Std Dev 0.896
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

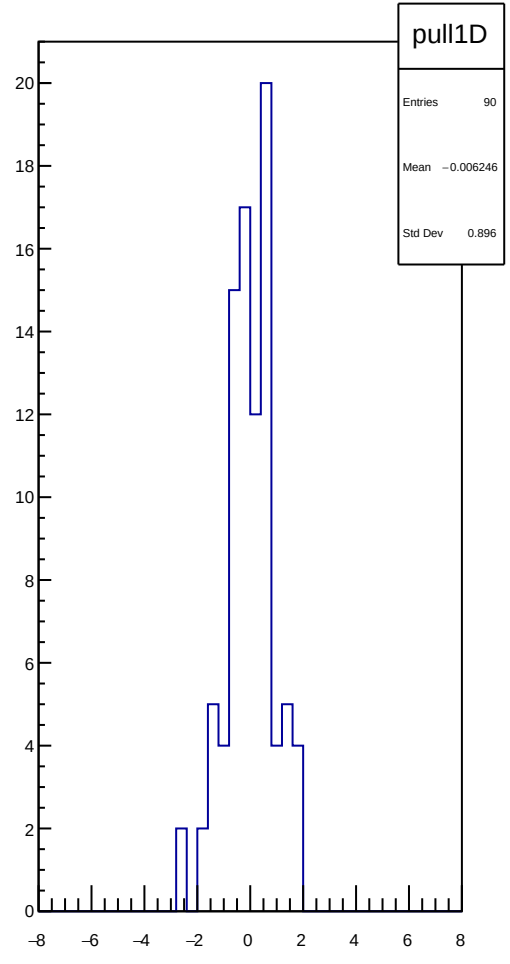

reg_asym_at2_dd_rms vs run
χ^2 / ndf 335.1 / 89
p0 1520 ± 1.146
1580
1560
1540
1520
1500
1480
1460

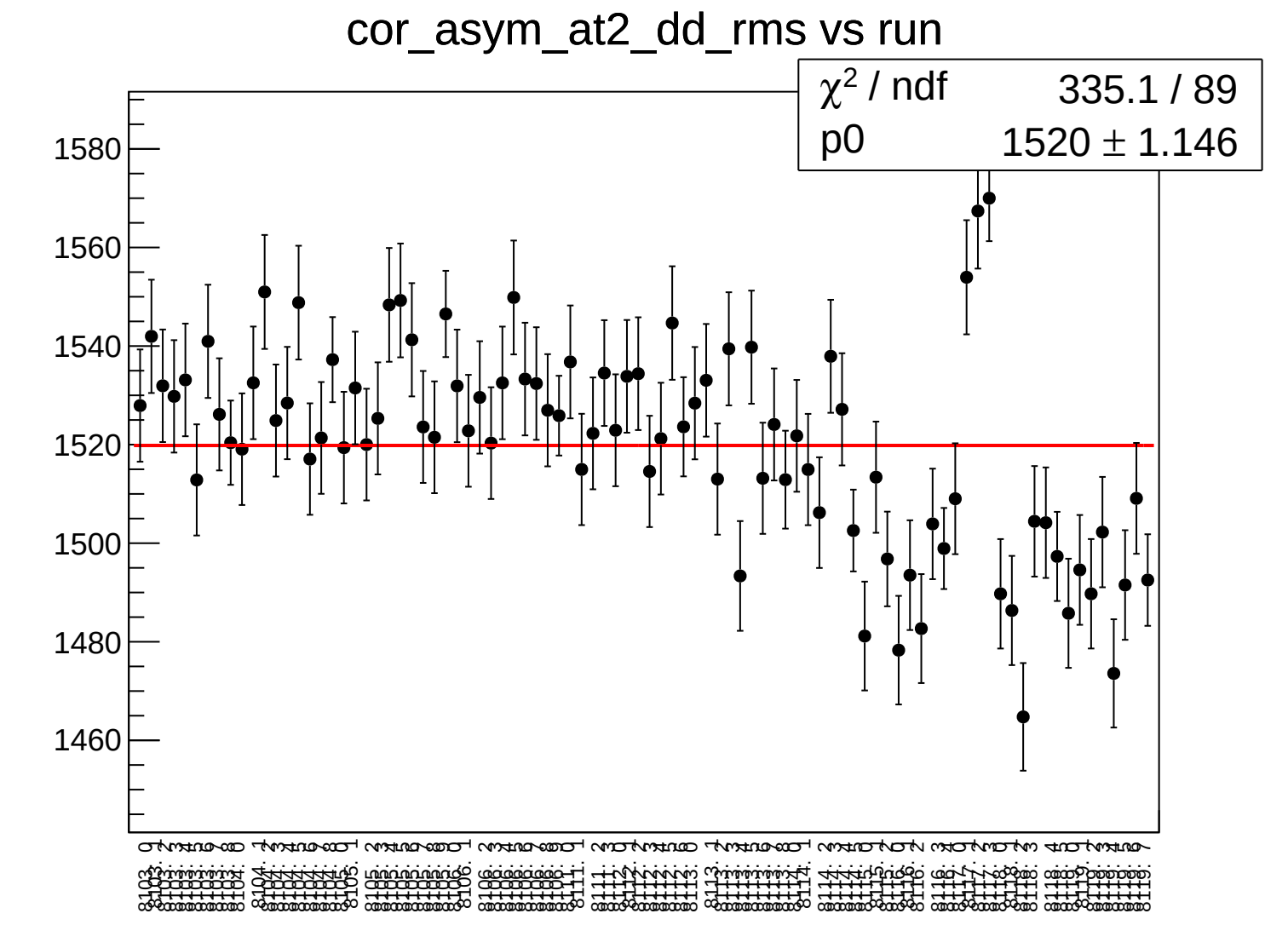

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 90.13 / 89
p0 4764 ± 2275
pull
Entries 90
Mean 6059
Std Dev 0

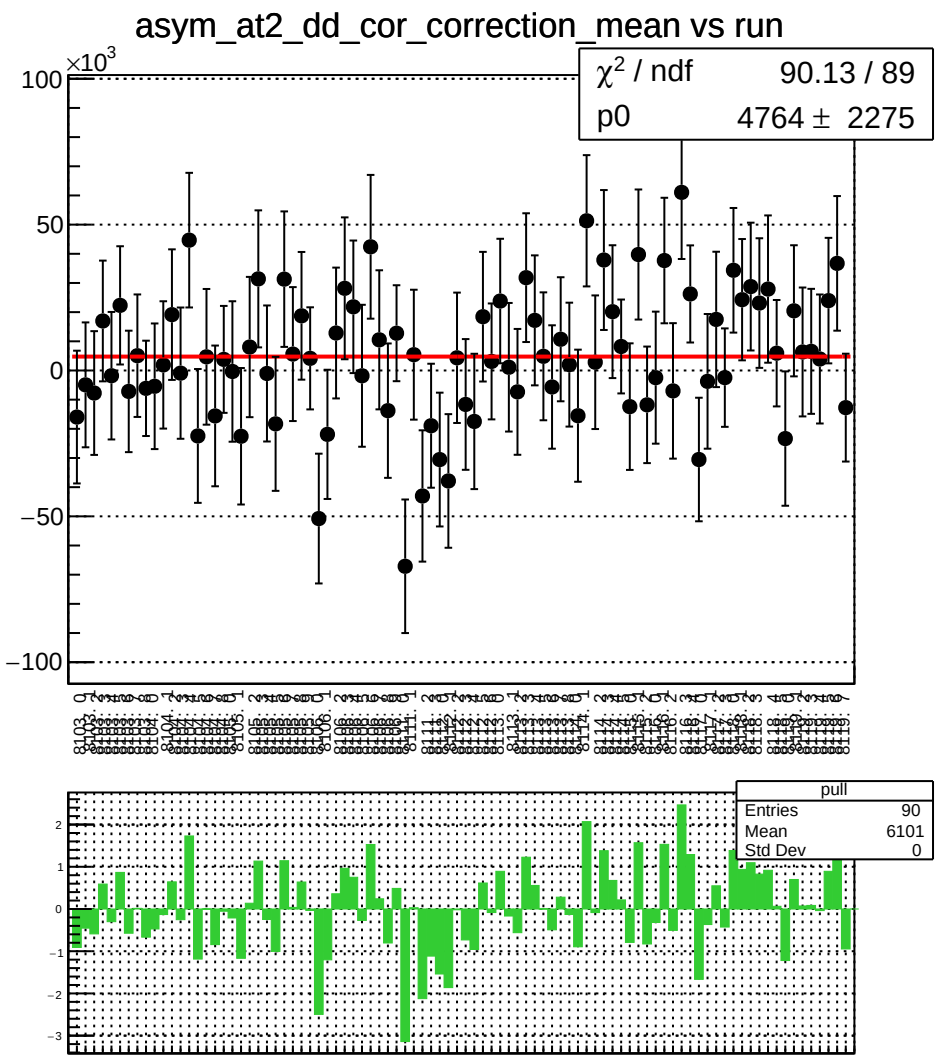

pull1D
Entries 90
Mean 0.0009188
Std Dev 1.001

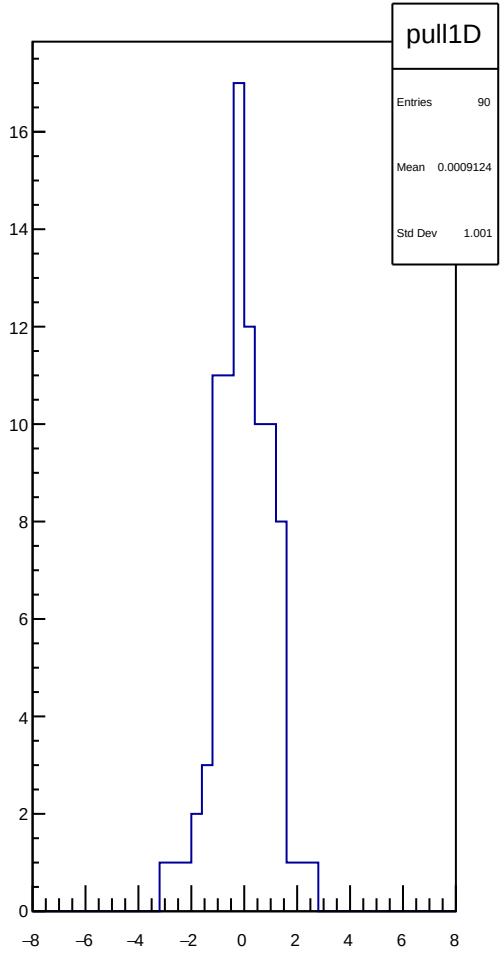

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 3074 / 89
p0 2132 ± 1.609
2400
2300
2200
2100
2000
1900

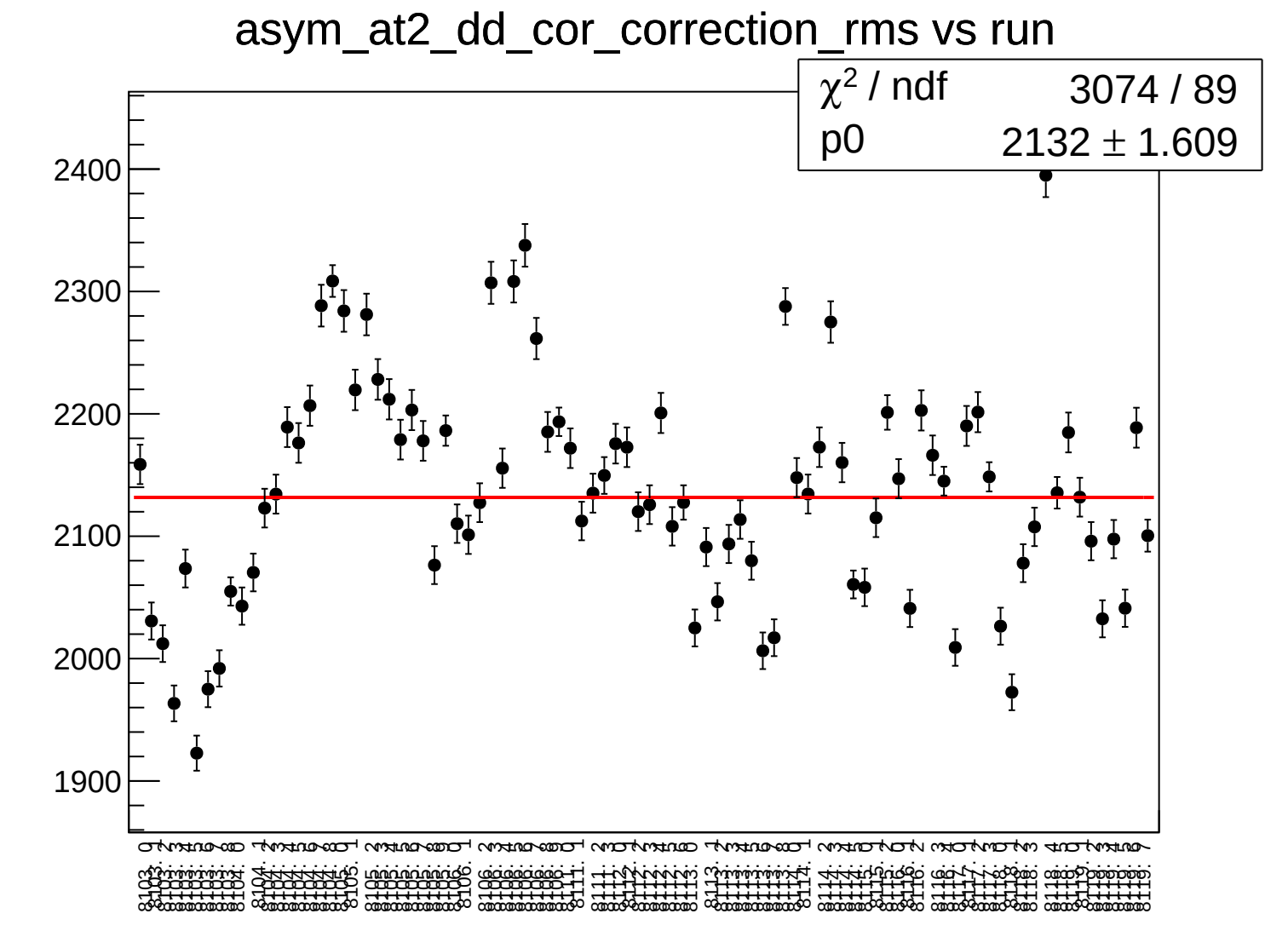

cor_asym_at2_dd_mean vs run
χ² / ndf 72.26 / 89
p0 1146 ± 1621
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −351.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

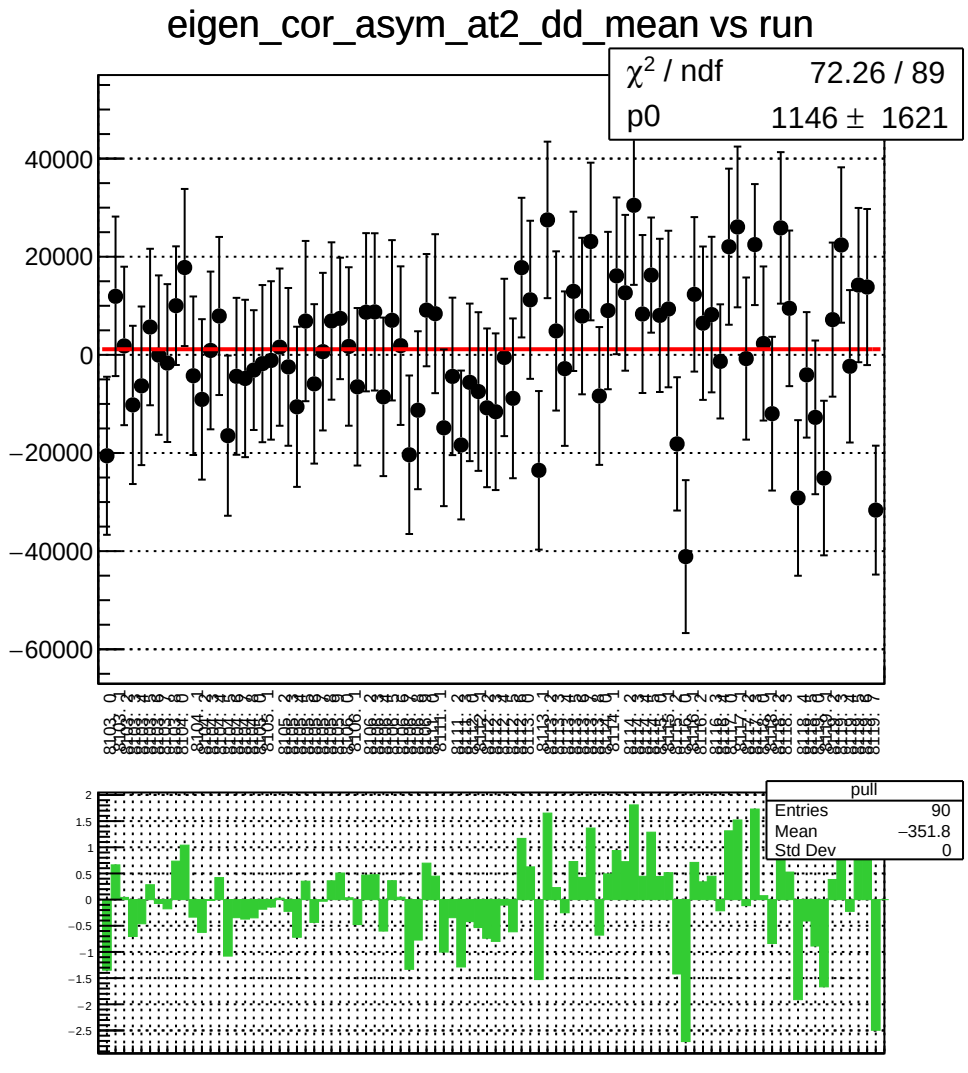

pull1D
Entries 90
Mean −0.006246
Std Dev 0.896
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

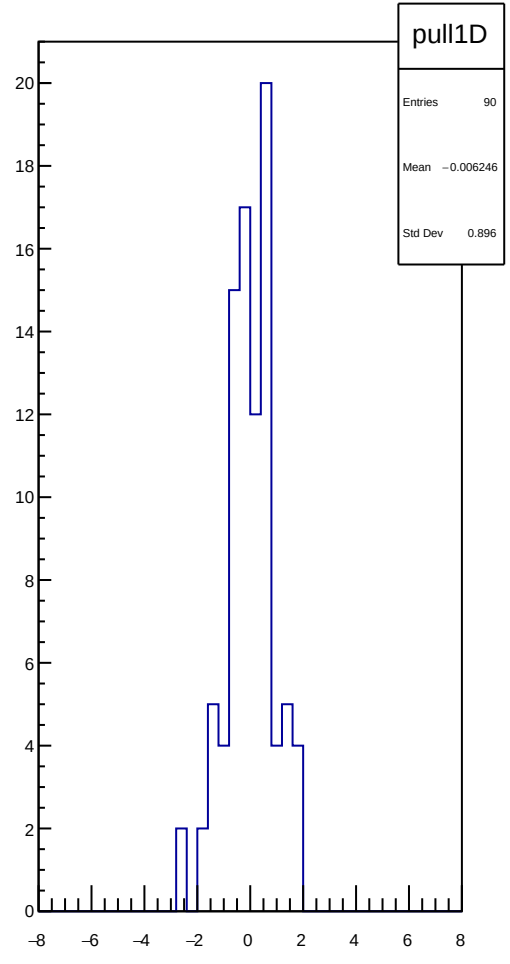

cor_asym_at2_dd_rms vs run
χ^2 / ndf 335.1 / 89
p0 1520 ± 1.146
1580
1560
1540
1520
1500
1480
1460

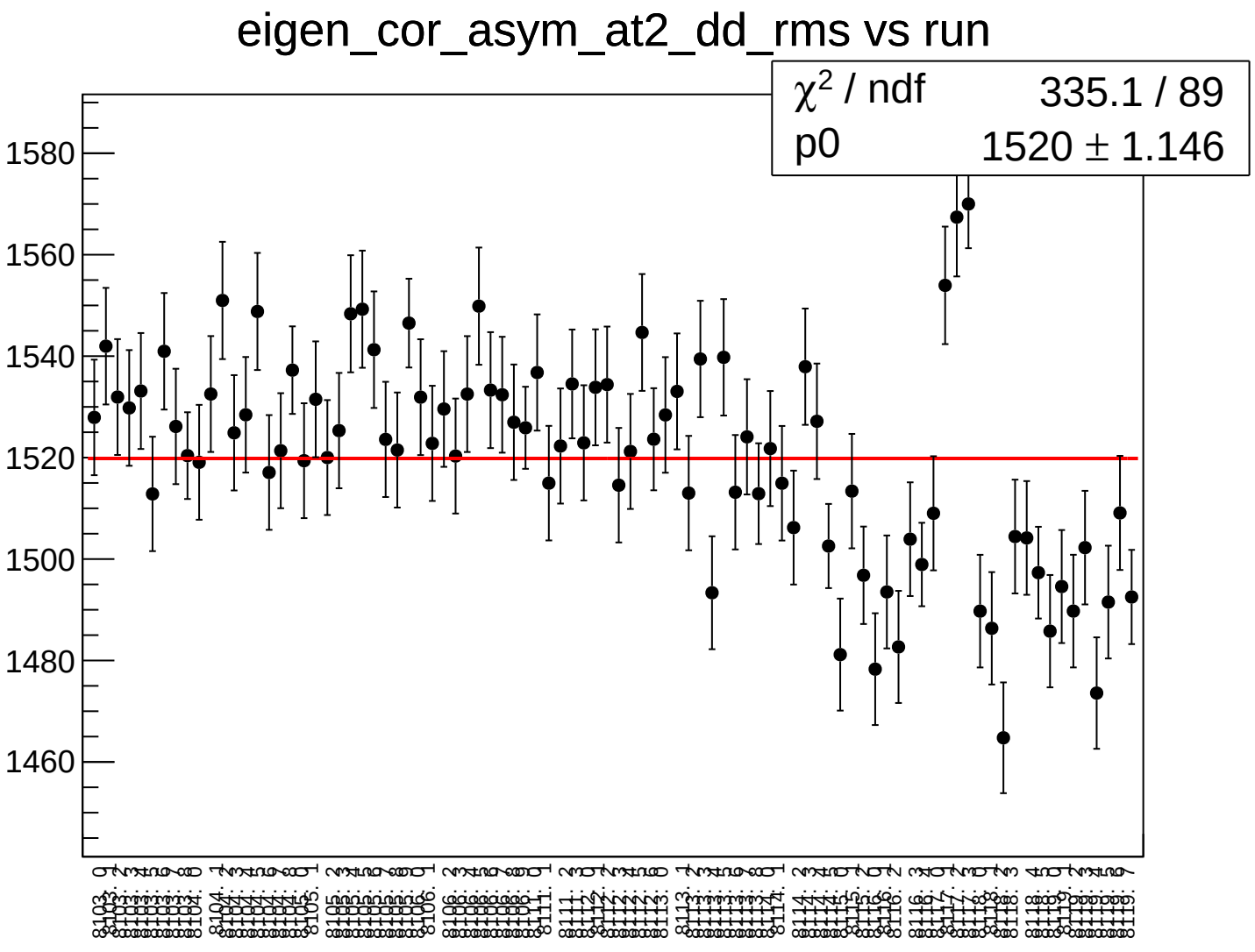

asym_at2_dd_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 90.13 / 89
p0 4764 ± 2275
pull
Entries 90
Mean 6101
Std Dev 0
2
1
0
−1
−2
−3

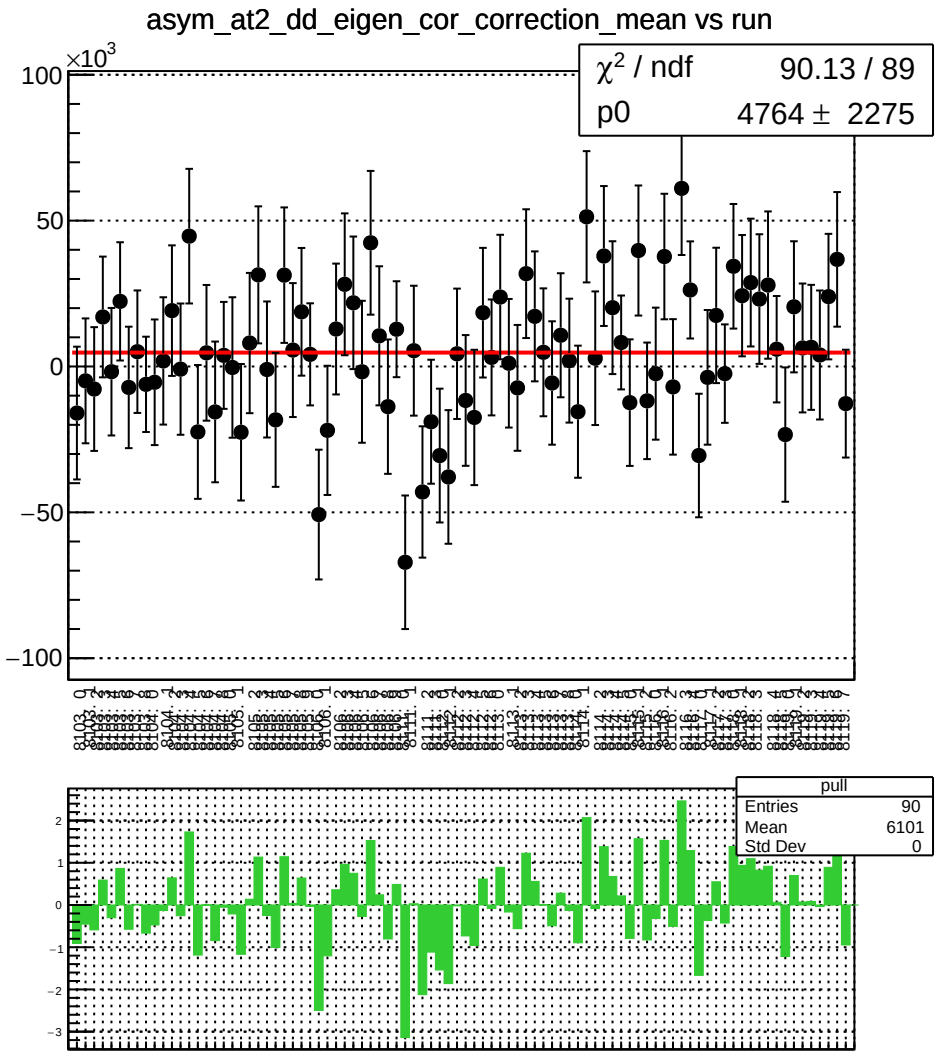

pull1D
Entries 90
Mean 0.0009124
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

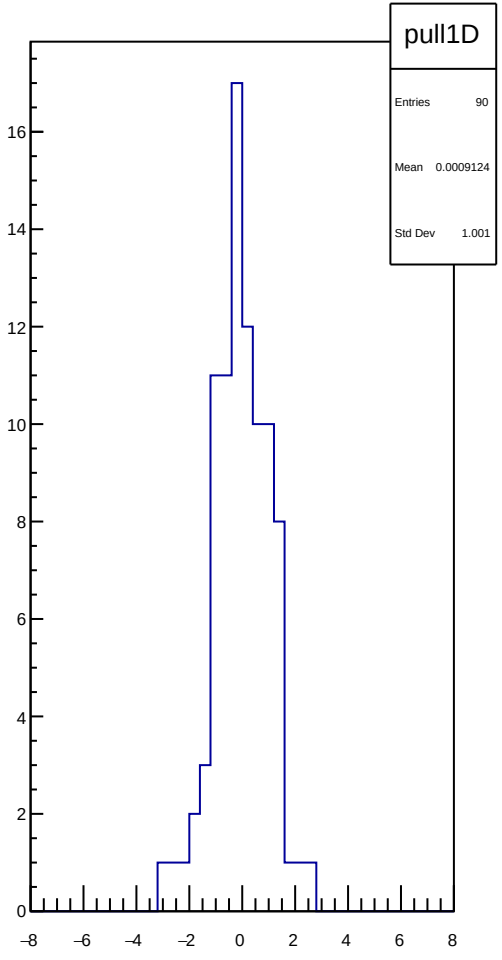

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 3074 / 89
p0 2132 ± 1.609
2400
2300
2200
2100
2000
1900

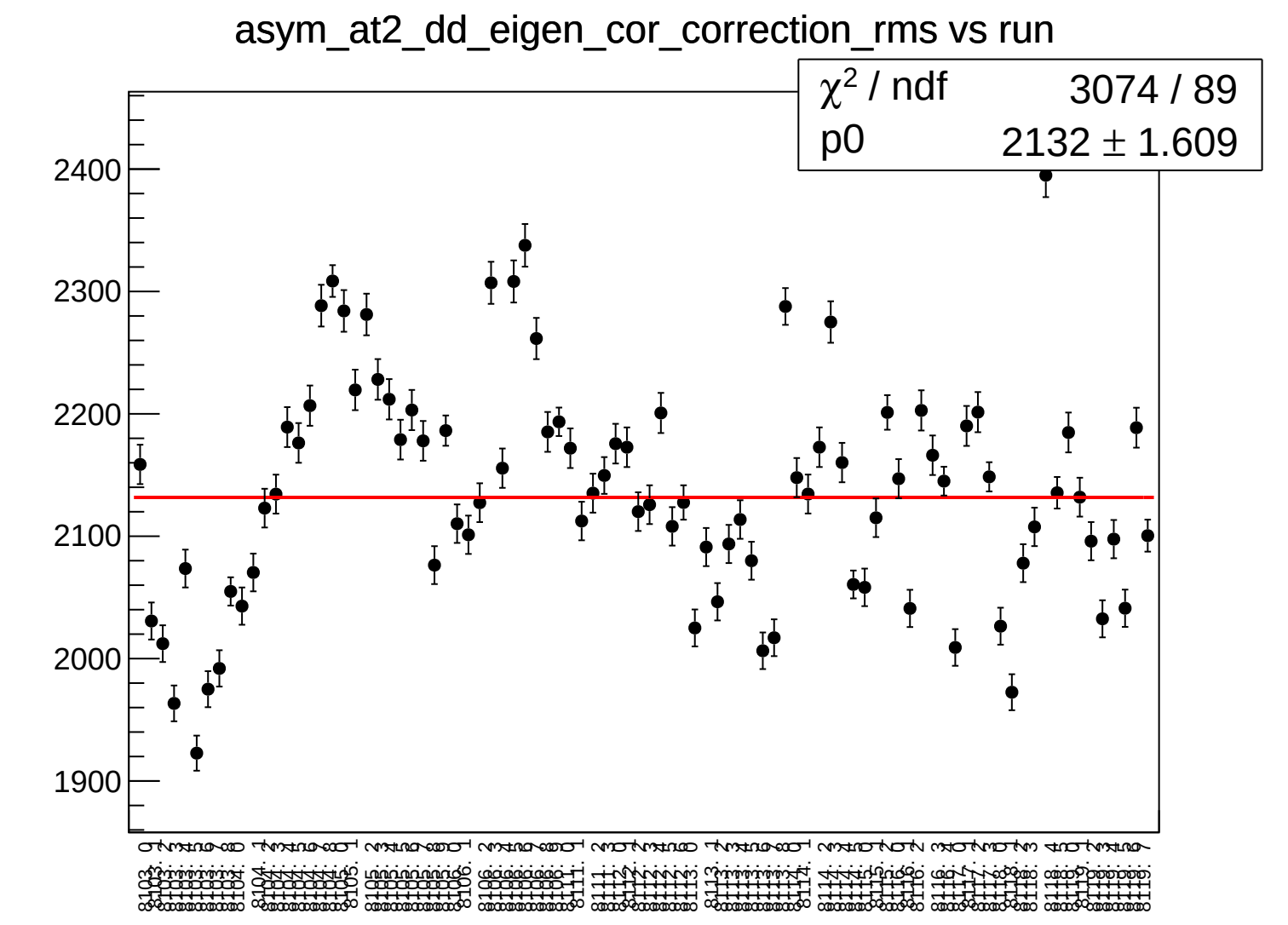

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 72.26 / 89
p0 1146 ± 1621
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −351.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

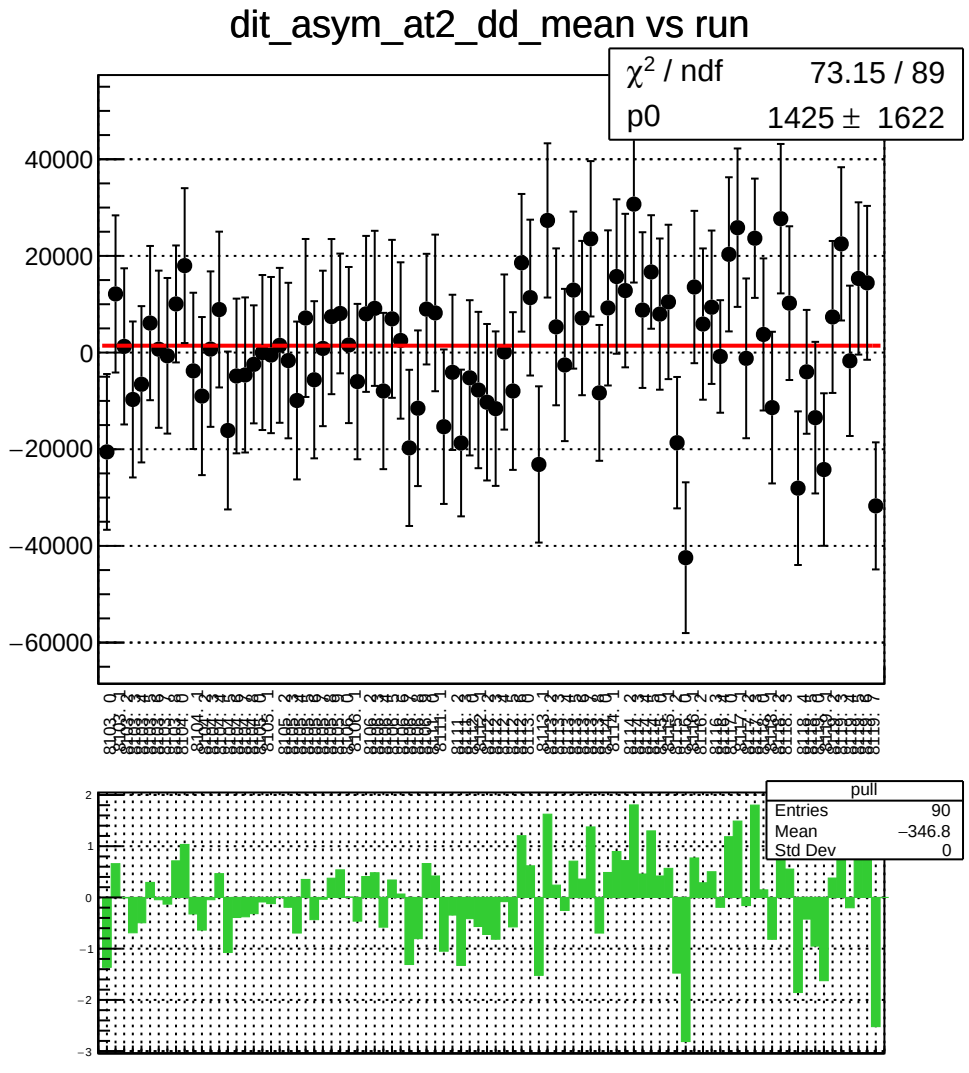

pull1D
Entries 90
Mean −0.006246
Std Dev 0.896
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

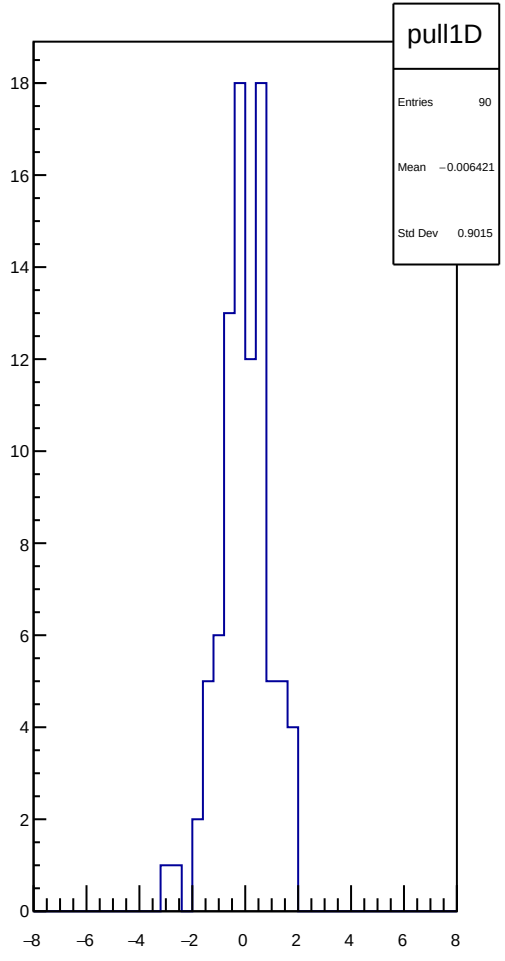

eigen_cor_asym_at2_dd_rms vs run
χ^2 / ndf 335.1 / 89
p0 1520 ± 1.146
1580
1560
1540
1520
1500
1480
1460

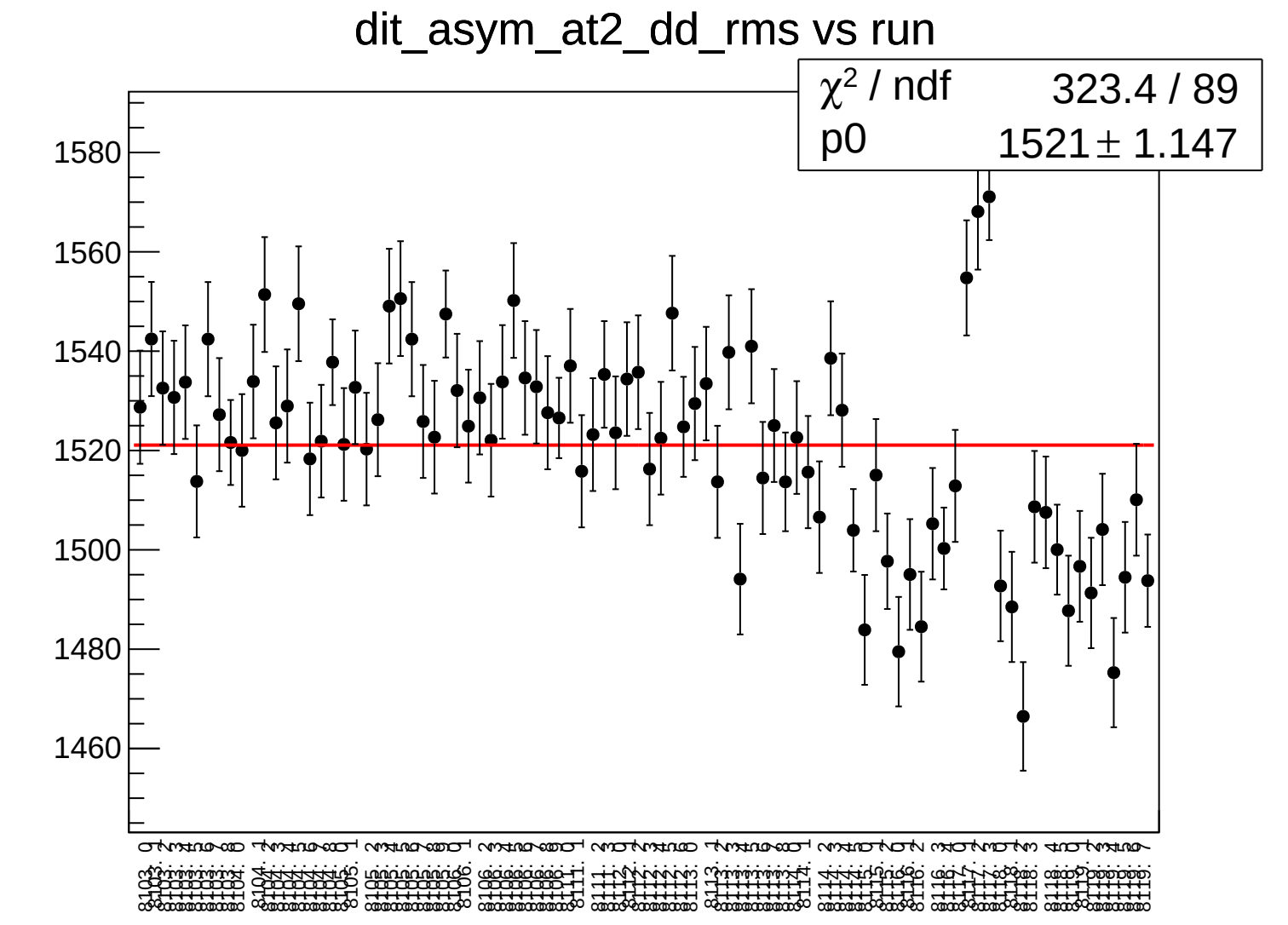

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.13 / 89
p0 4764 ± 2275
pull
Entries 90
Mean 6101
Std Dev 0

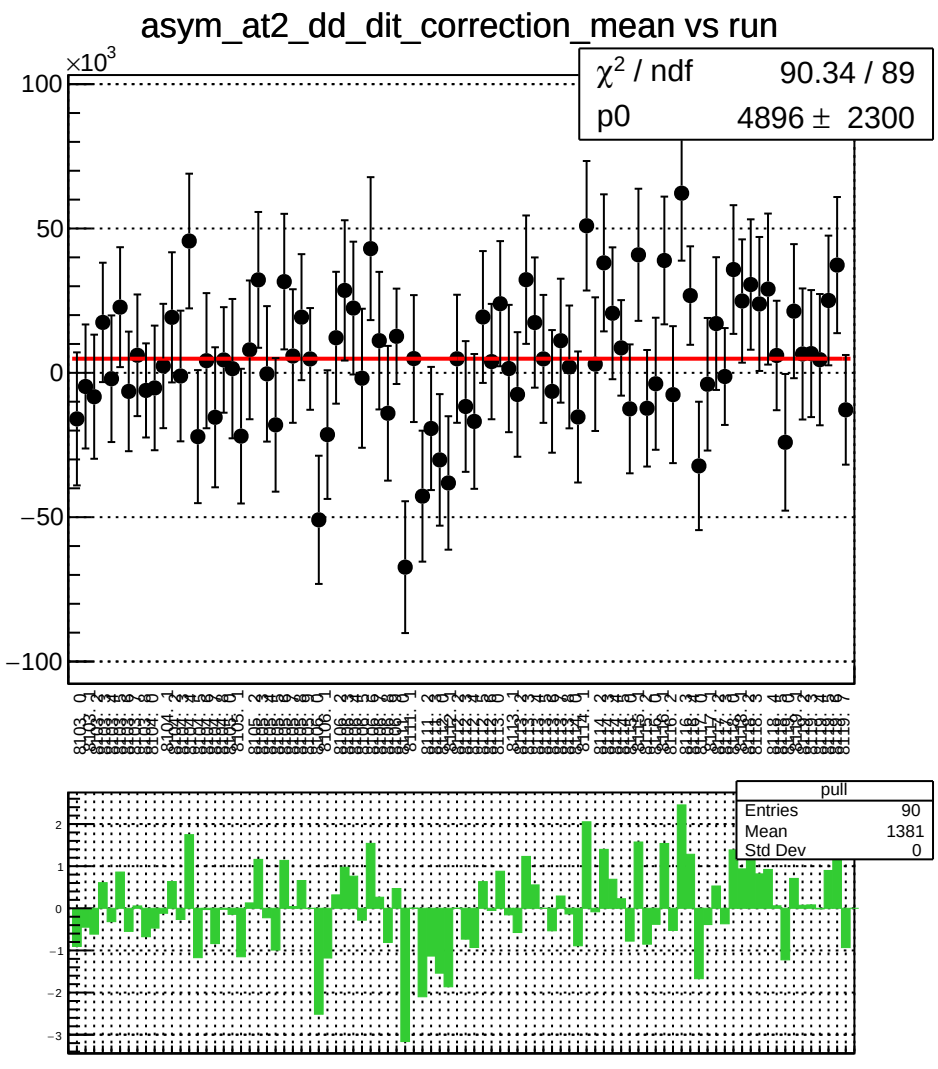

pull1D
Entries 90
Mean 0.0009124
Std Dev 1.001

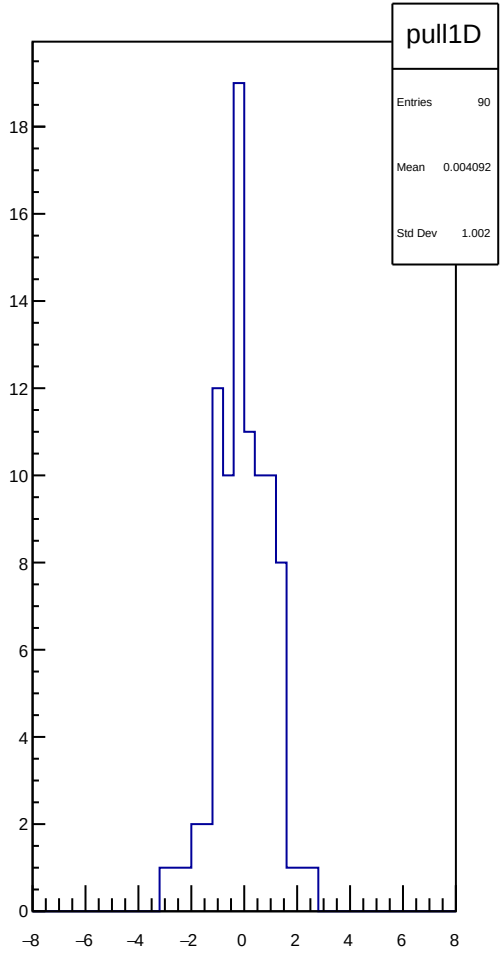

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3074 / 89
p0 2132 ± 1.609
2400
2300
2200
2100
2000
1900

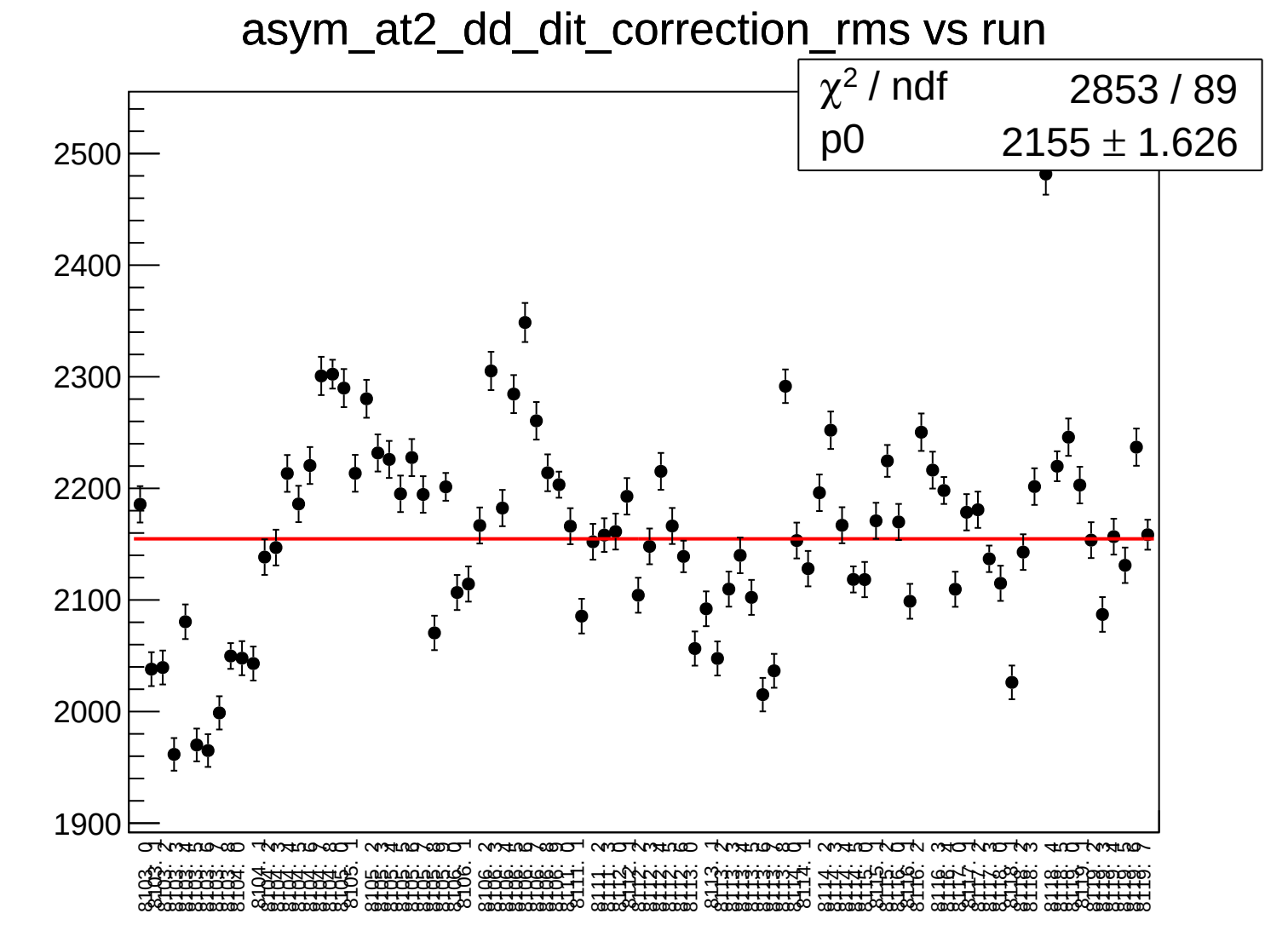

dit_asym_at2_dd_mean vs run
χ² / ndf 73.15 / 89
p0 1425 ± 1622
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −346.8
Std Dev 0
2
1
0
−1
−2
−3

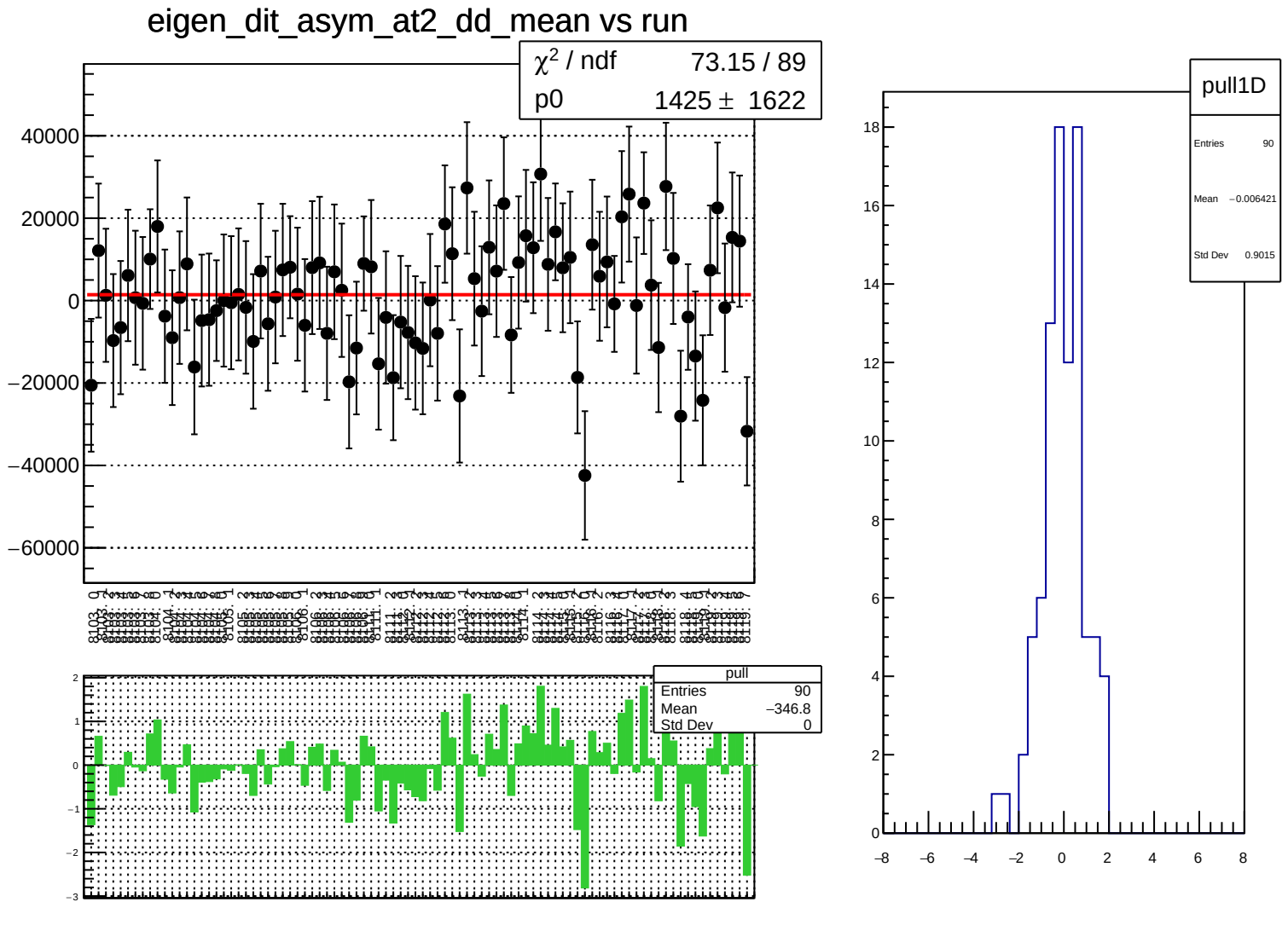

pull1D
Entries 90
Mean −0.006421
Std Dev 0.9015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

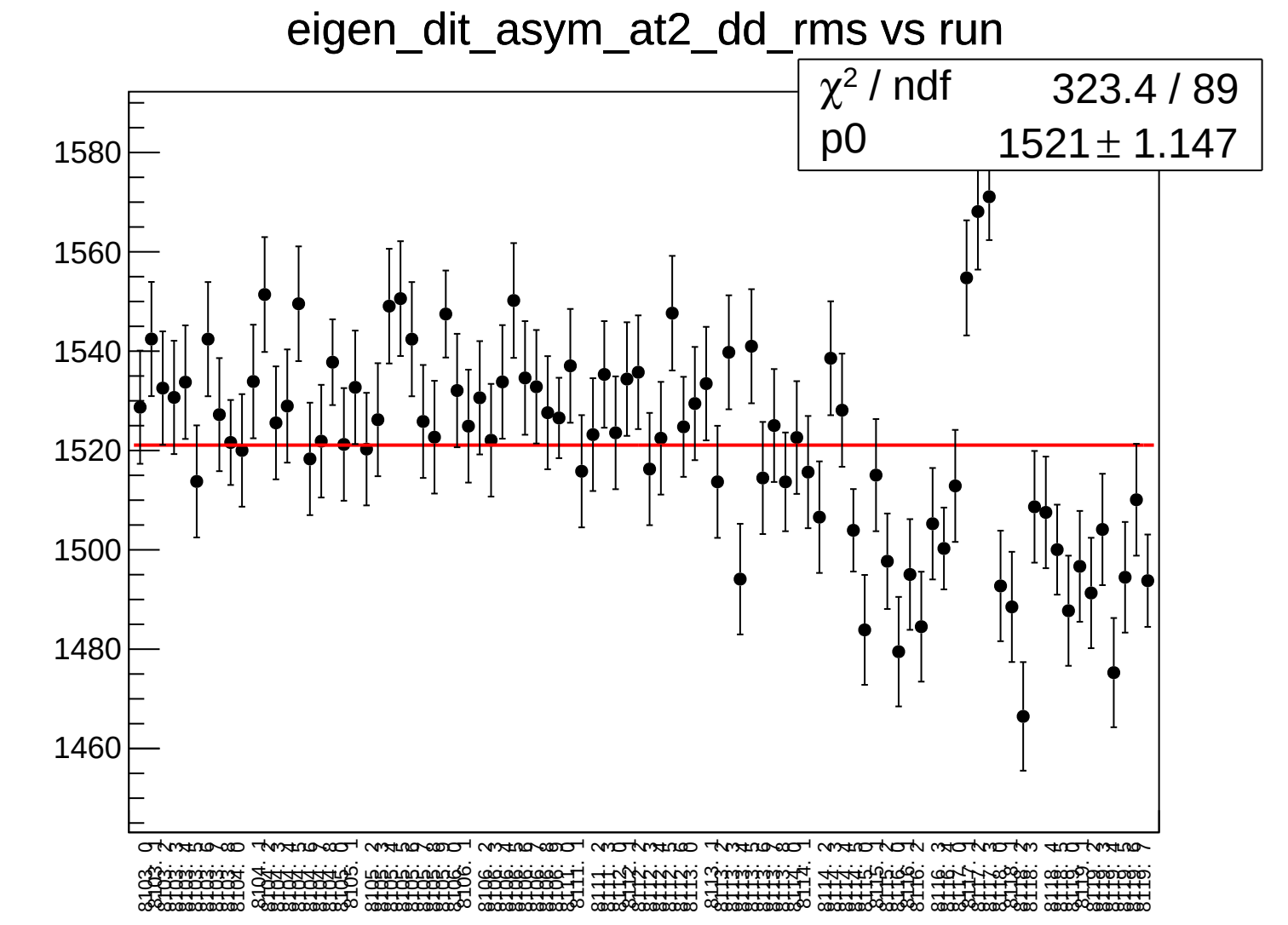

dit_asym_at2_dd_rms vs run
χ² / ndf 323.4 / 89
p0 1521 ± 1.147
1580
1560
1540
1520
1500
1480
1460

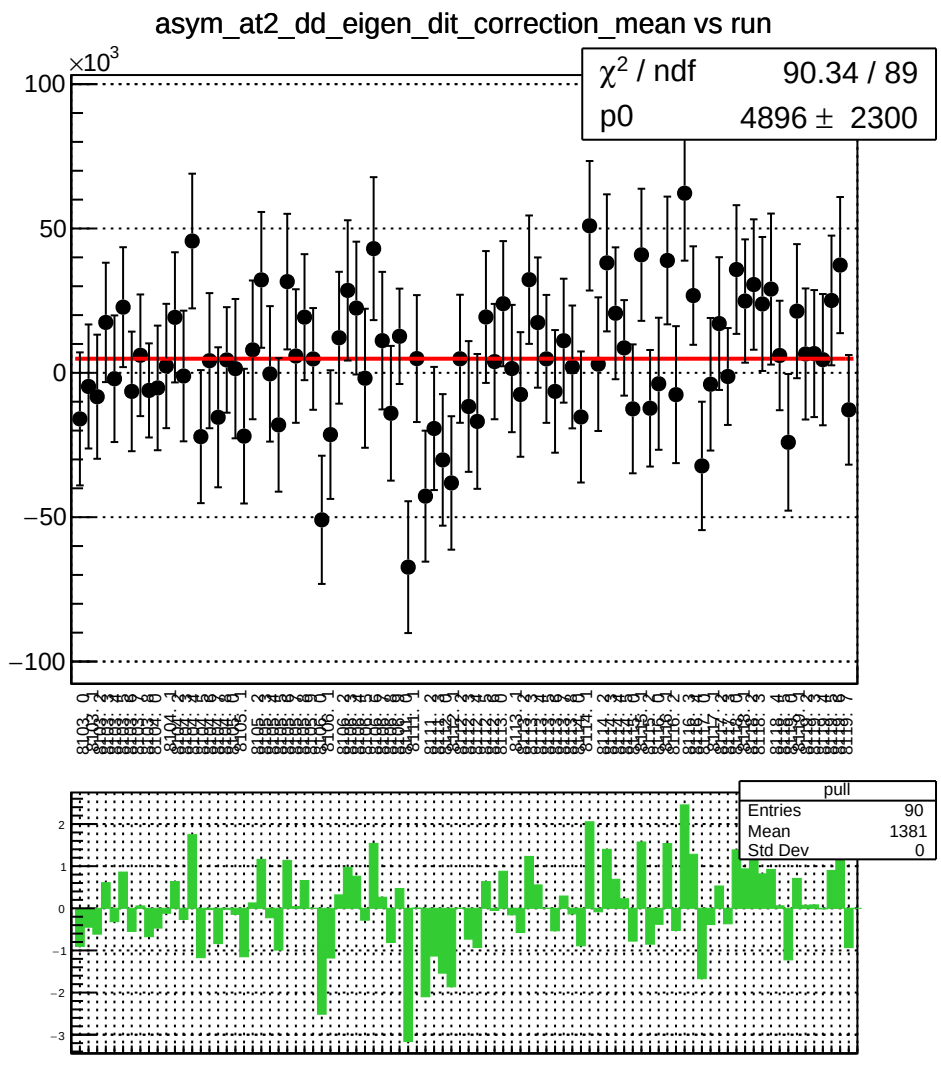

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.34 / 89
p0 4896 ± 2300
100
50
0
−50
−100
pull
Entries 90
Mean 1381
Std Dev 0
2
1
0
−1
−2
−3

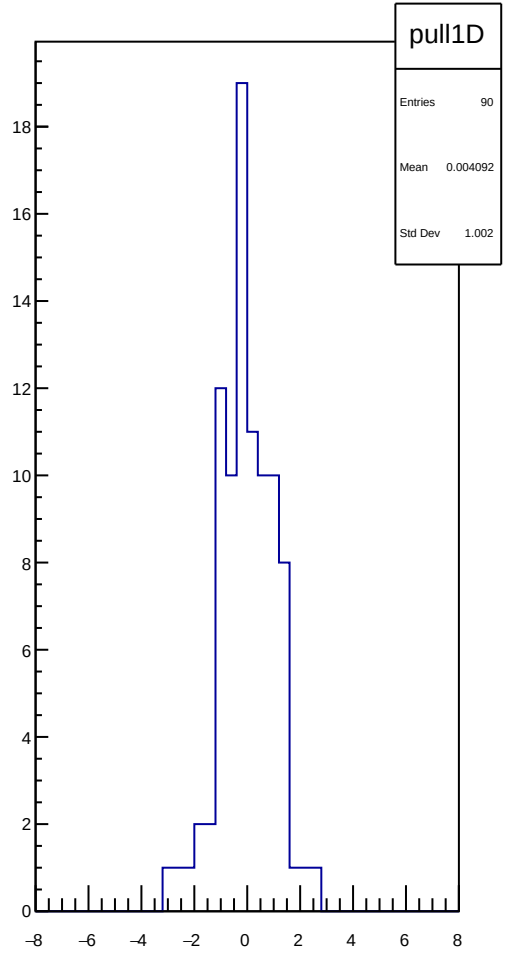

pull1D
Entries 90
Mean 0.004092
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

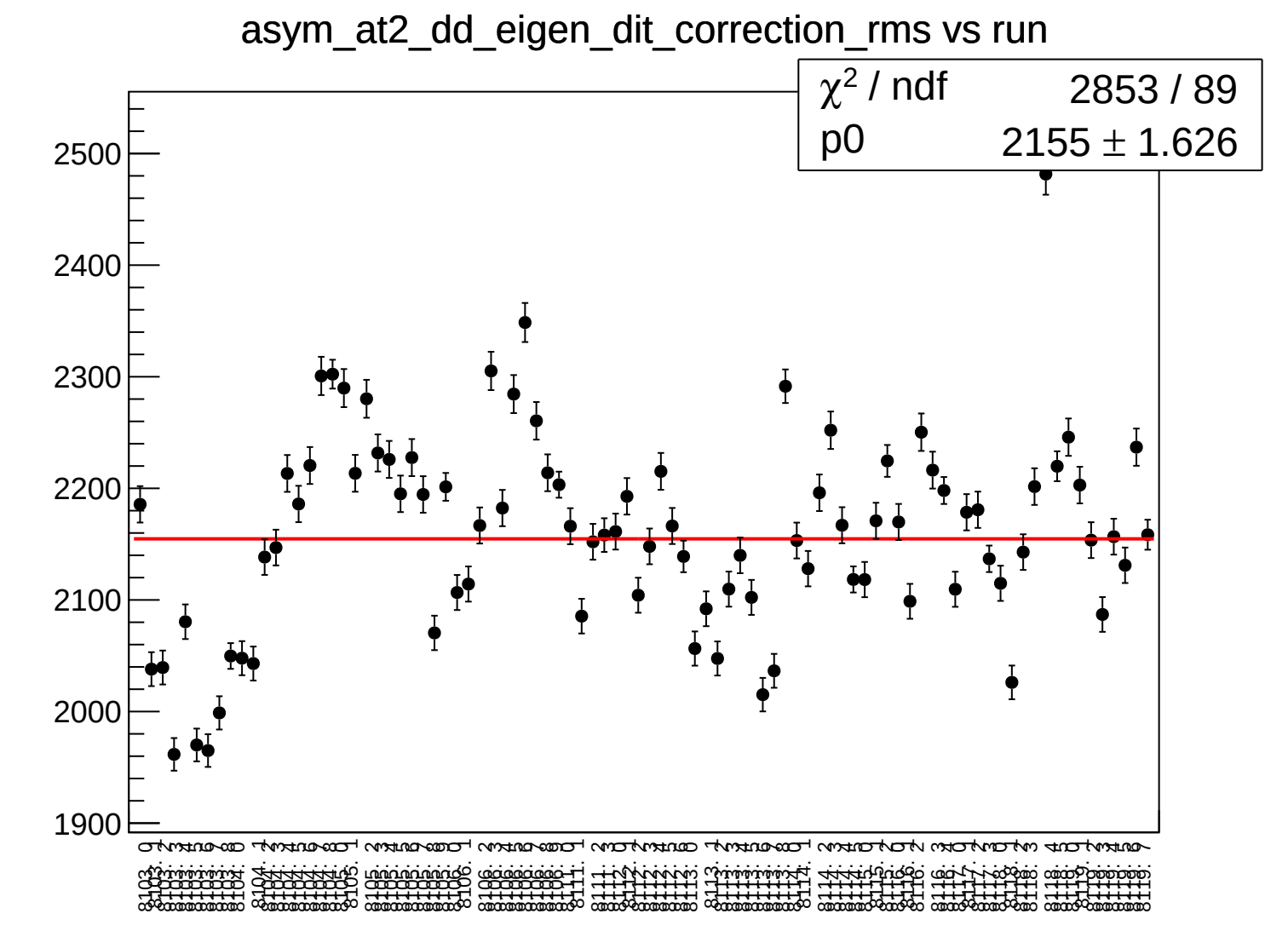

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2853 / 89
p0 2155 ± 1.626
2500
2400
2300
2200
2100
2000
1900

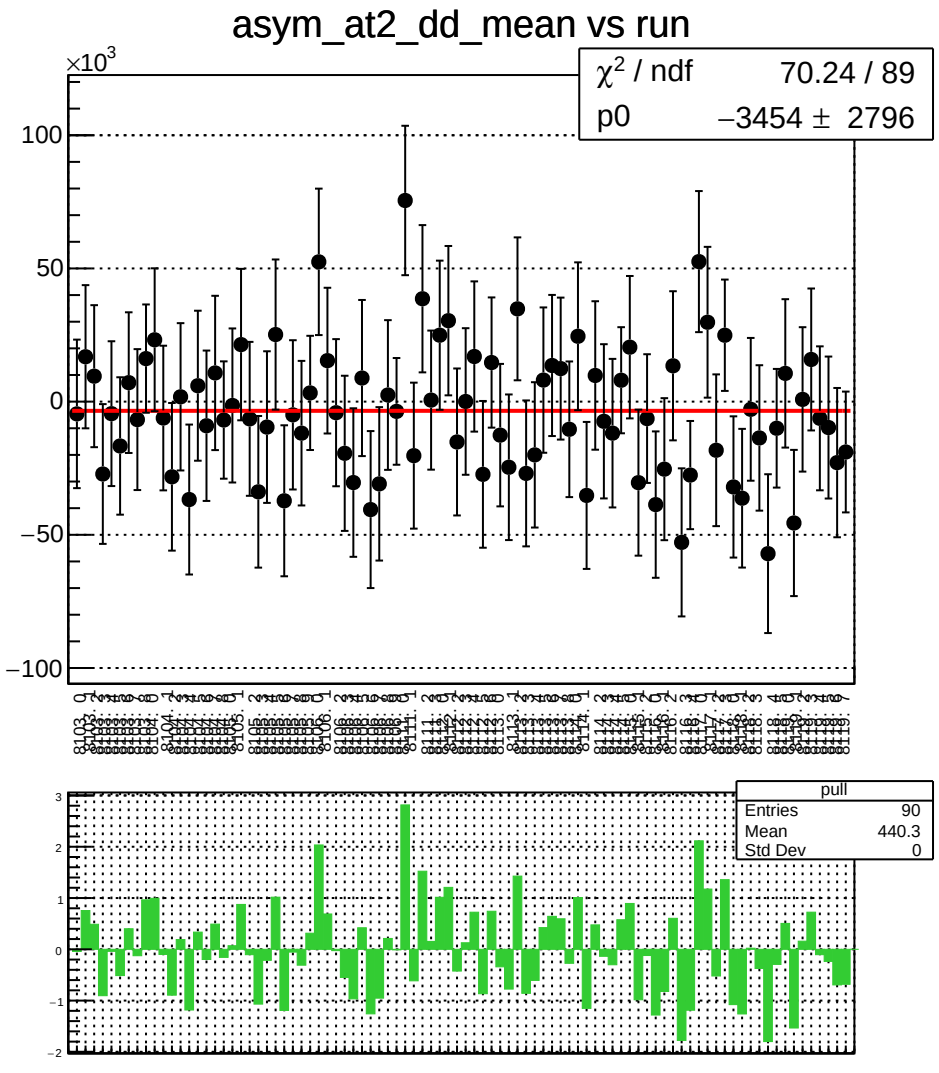

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 73.15 / 89
p0 1425 ± 1622
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −346.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean −0.006421
Std Dev 0.9015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

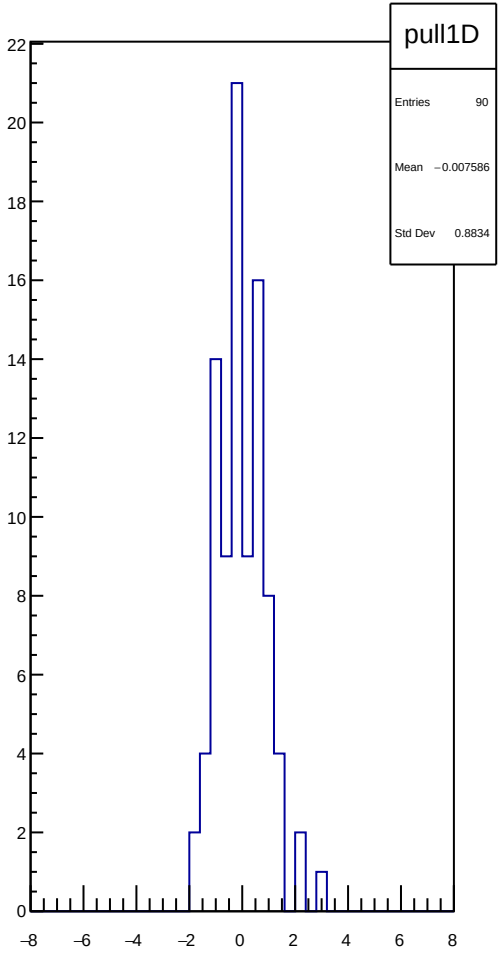

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 323.4 / 89
p0 1521 ± 1.147
1580
1560
1540
1520
1500
1480
1460

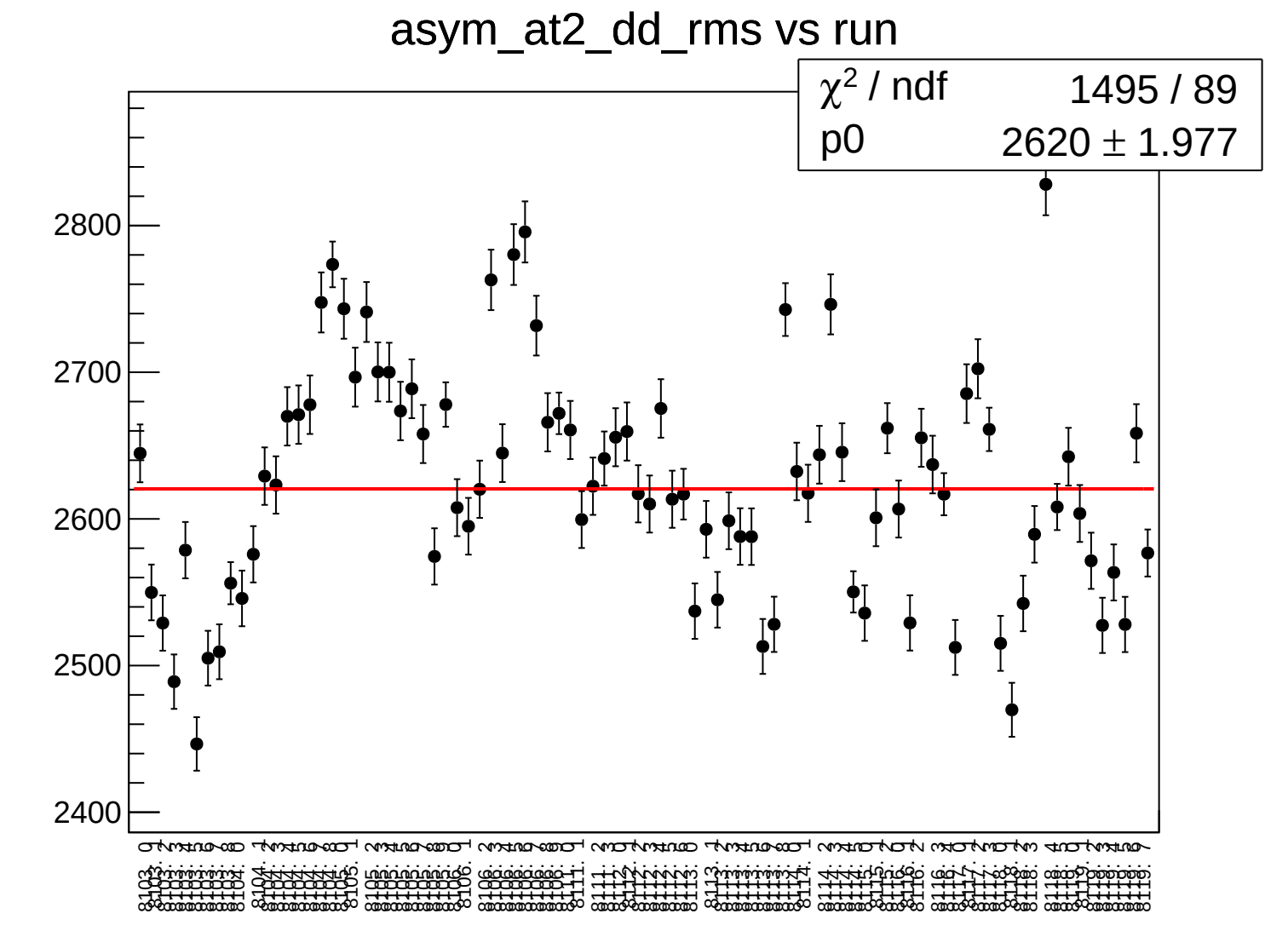

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.34 / 89
p0 4896 ± 2300
100
50
0
−50
−100
pull
Entries 90
Mean 1381
Std Dev 0
2
1
0
−1
−2
−3

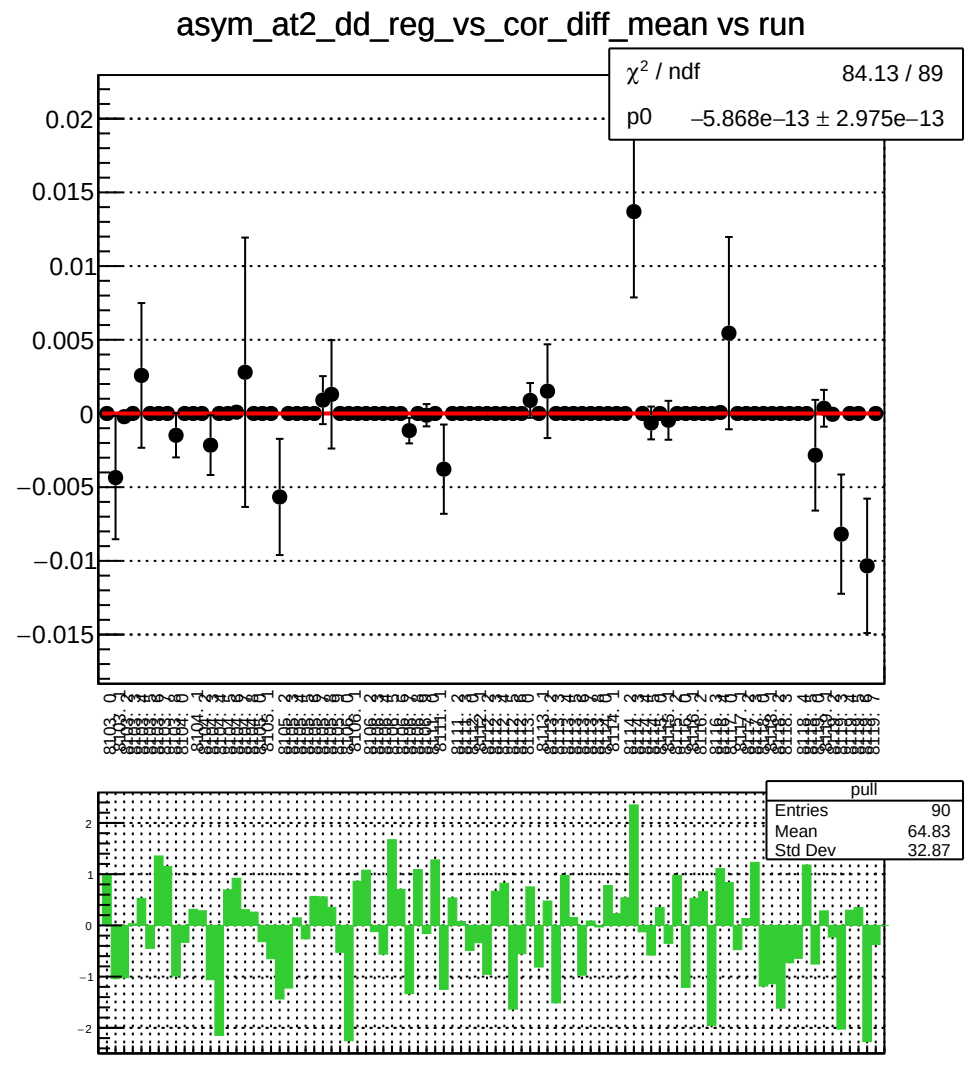

pull1D
Entries 90
Mean 0.004092
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

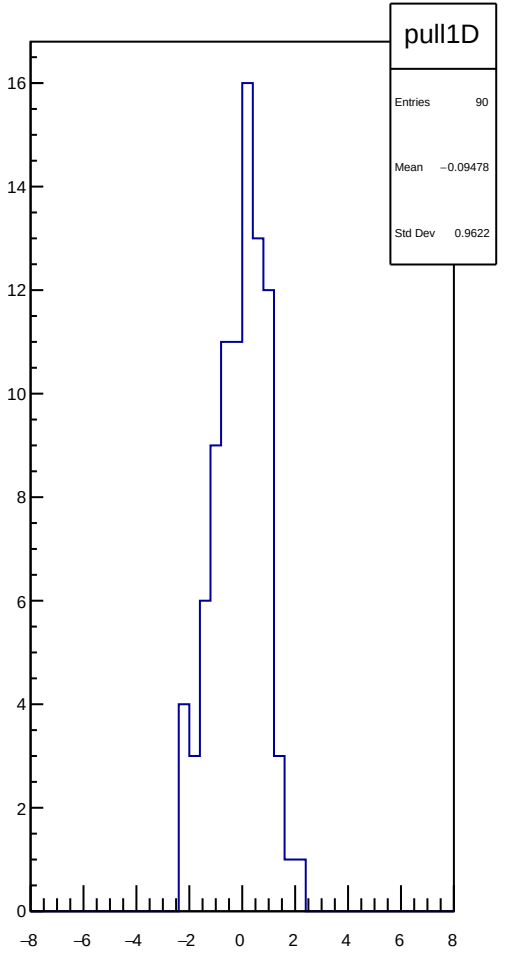

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2853 / 89
p0 2155 ± 1.626
2500
2400
2300
2200
2100
2000
1900

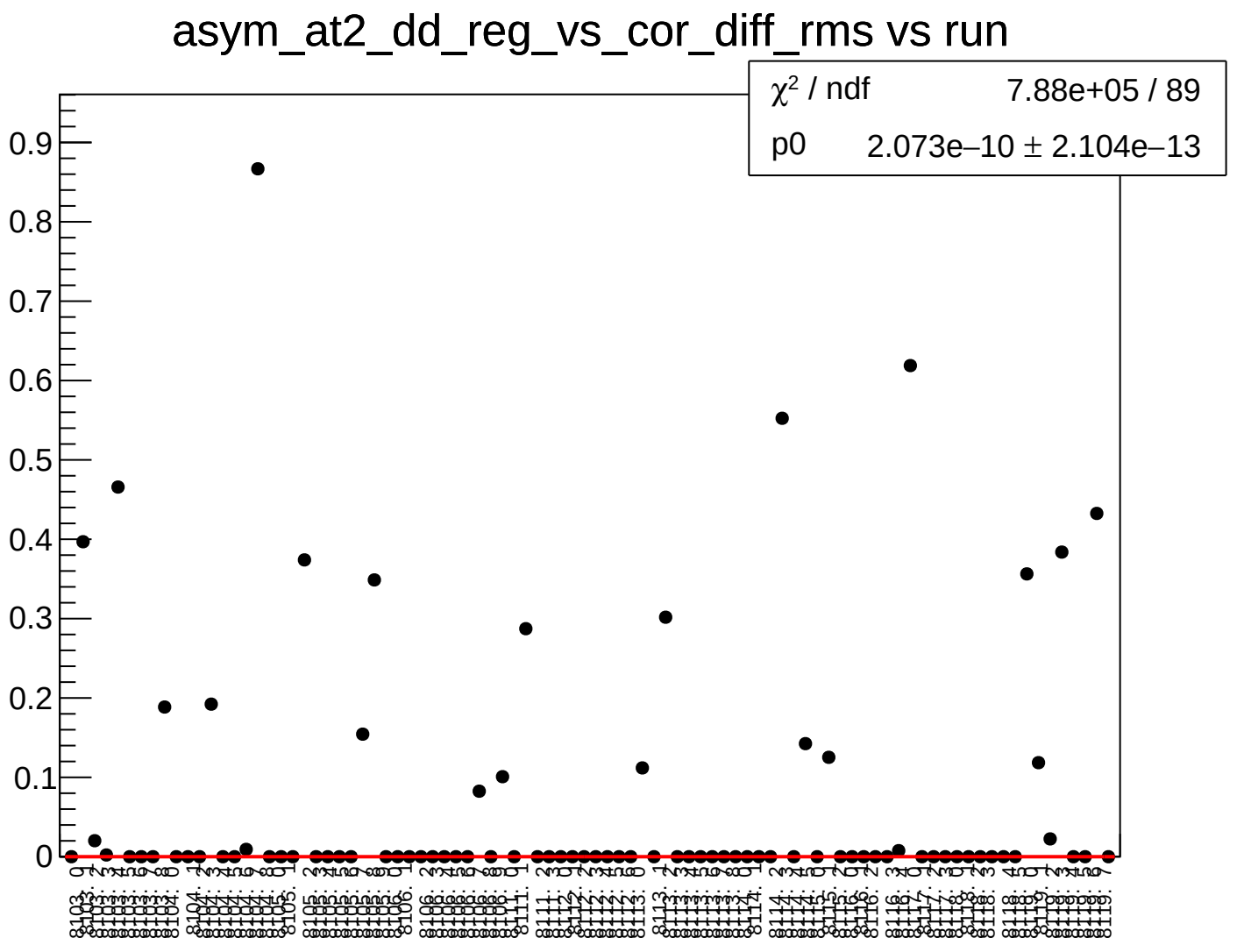

asym_at2_dd_mean vs run
×10^3
χ² / ndf 70.24 / 89
p0 −3454 ± 2796
100
50
0
−50
−100
pull
Entries 90
Mean 440.3
Std Dev 0
3
2
1
0
−1
−2

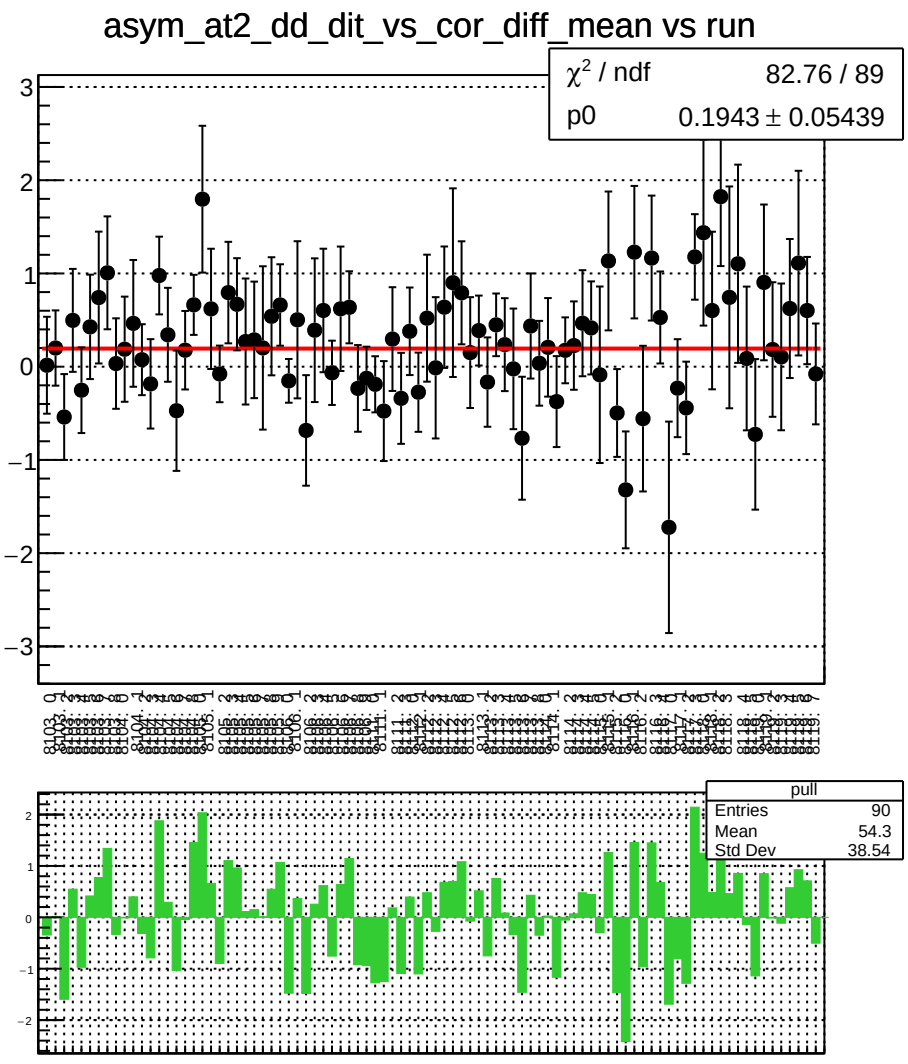

pull1D
Entries 90
Mean −0.007586
Std Dev 0.8834
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

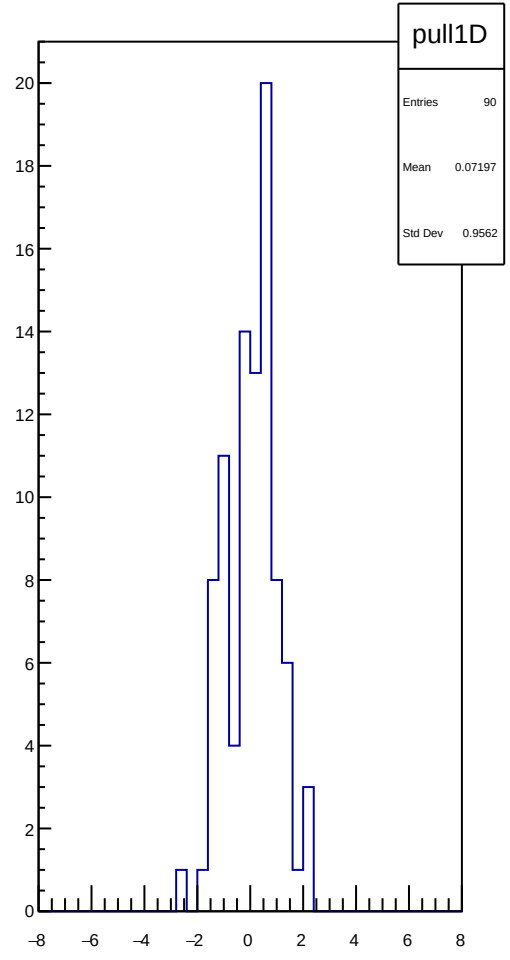

asym_at2_dd_rms vs run
χ^2 / ndf 1495 / 89
p0 2620 ± 1.977
2800
2700
2600
2500
2400

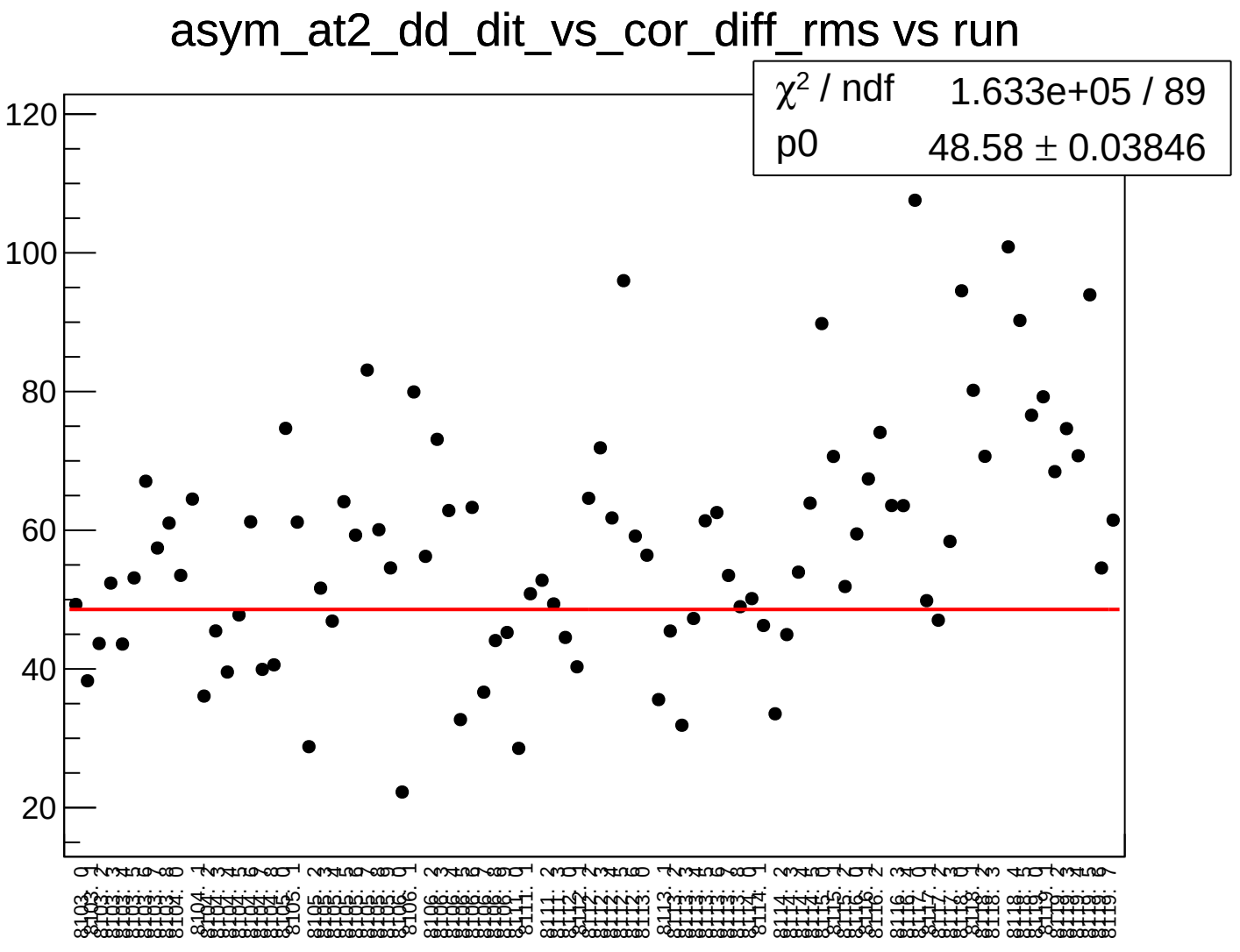

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.13 / 89
p0 −5.868e−13 ± 2.975e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 64.83
Std Dev 32.87
2
1
0
−1
−2

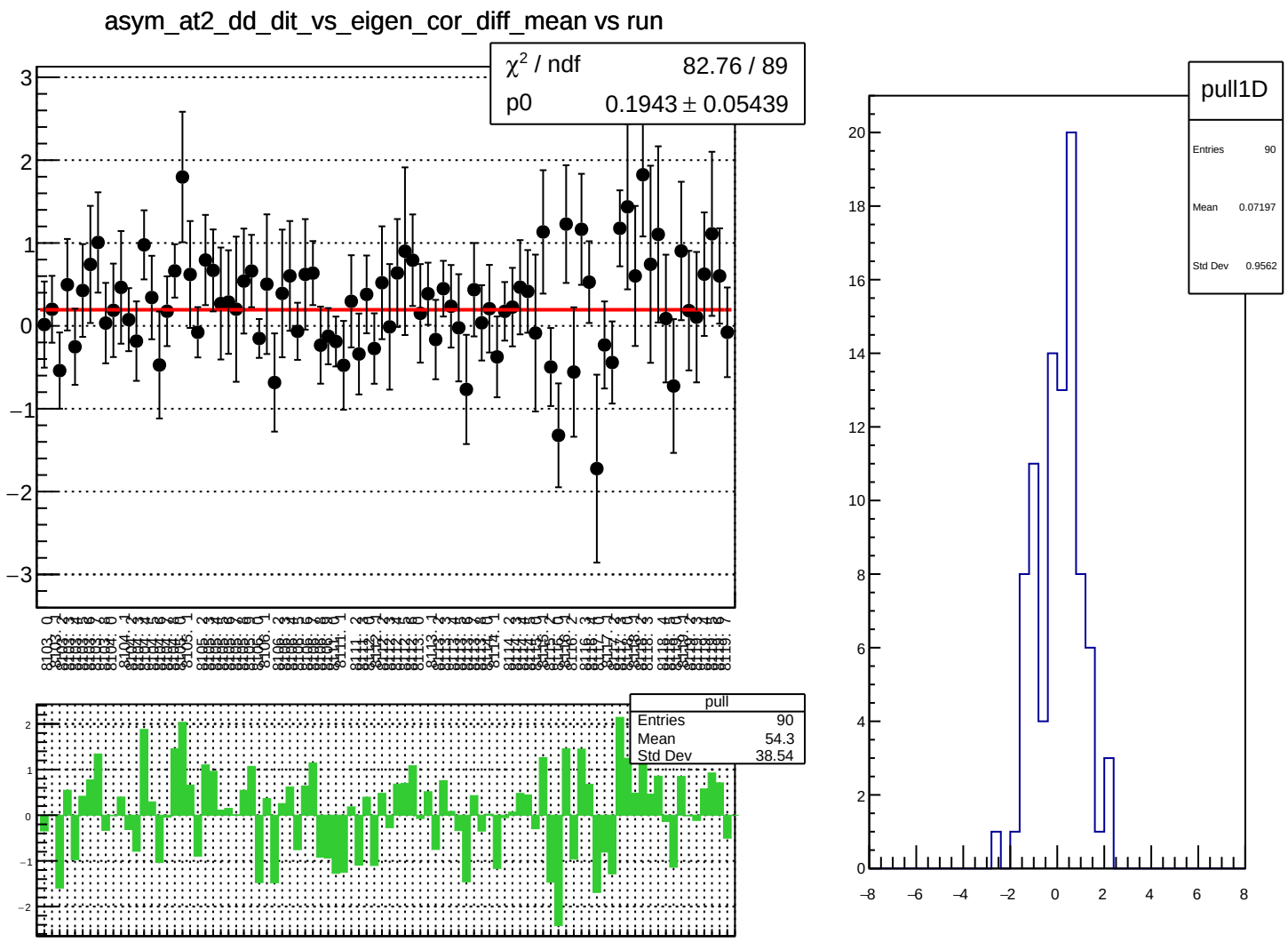

pull1D
Entries 90
Mean −0.09478
Std Dev 0.9622
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

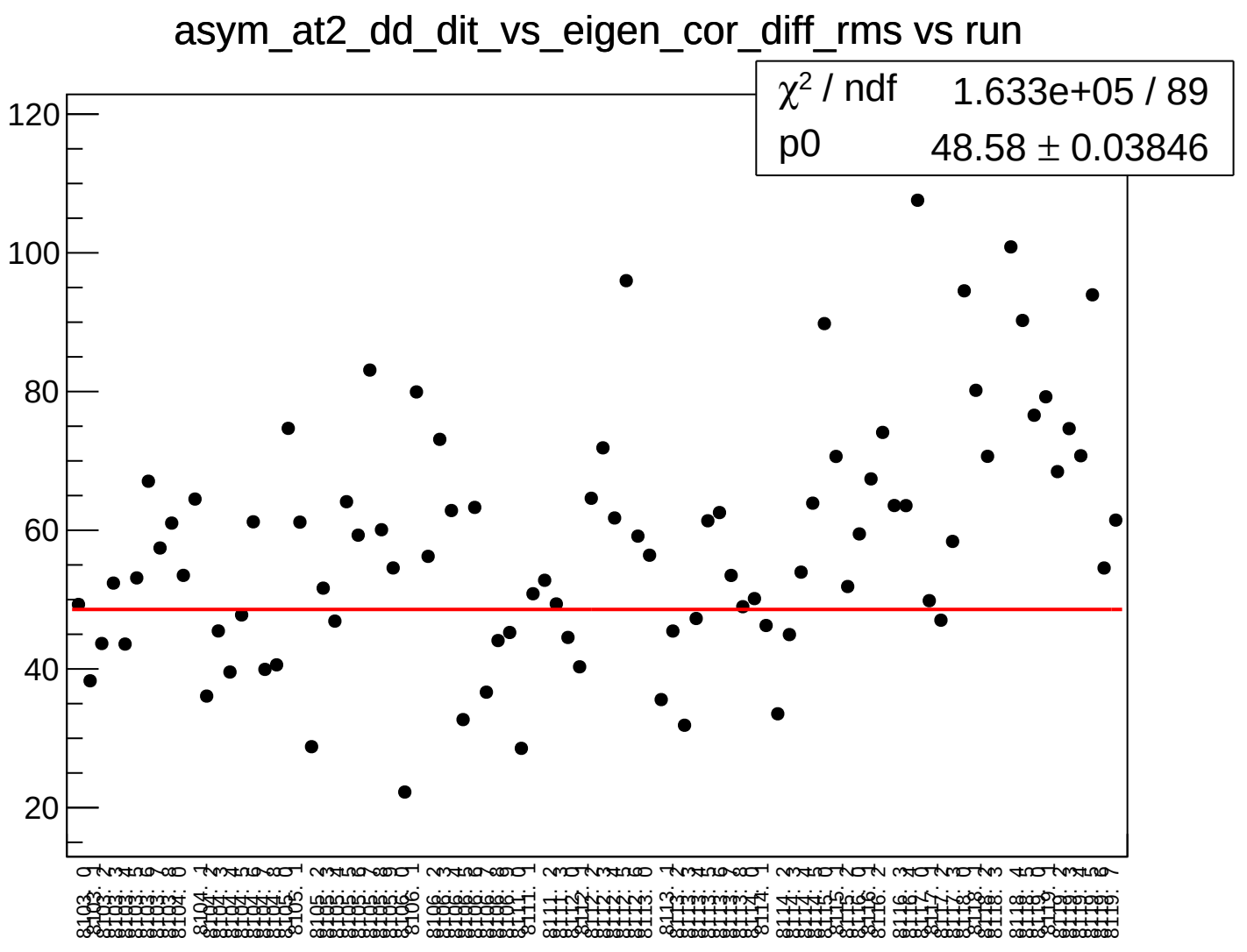

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.88e+05 / 89
p0 2.073e−10 ± 2.104e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

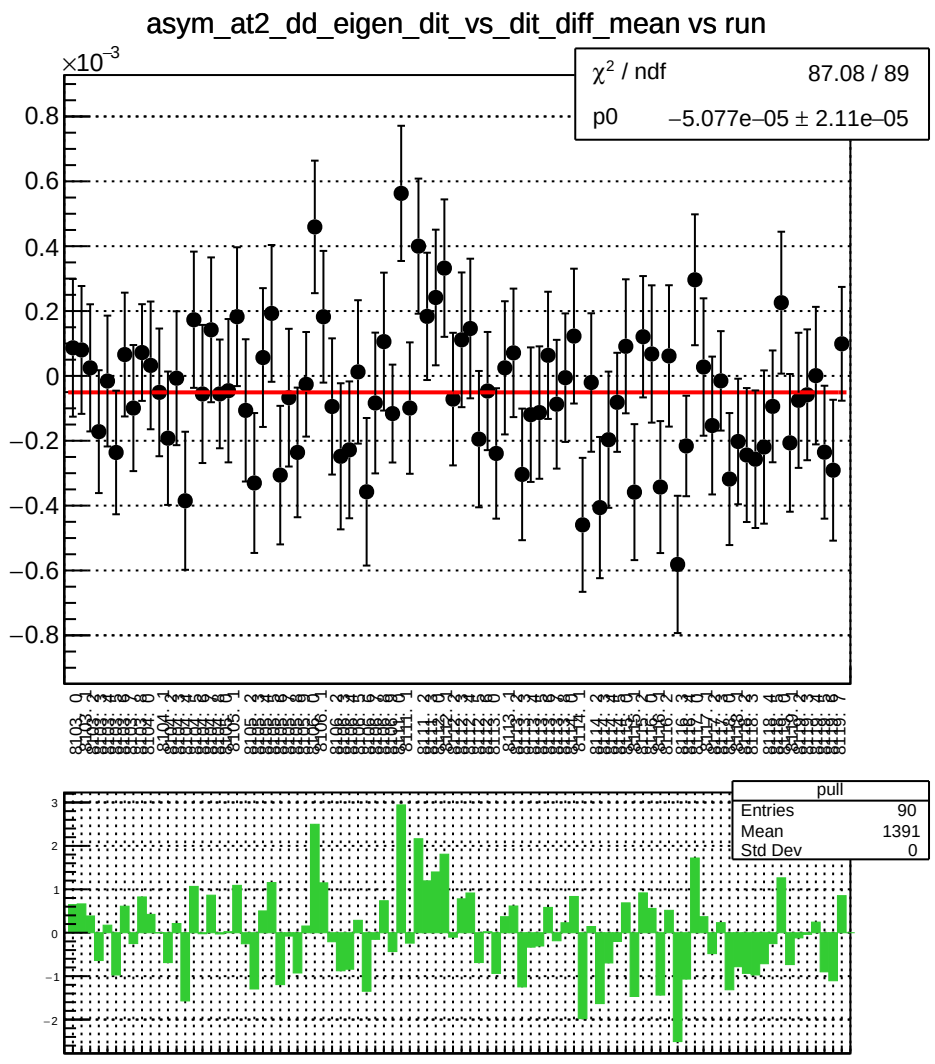

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.76 / 89
p0 0.1943 ± 0.05439
pull
Entries 90
Mean 54.3
Std Dev 38.54

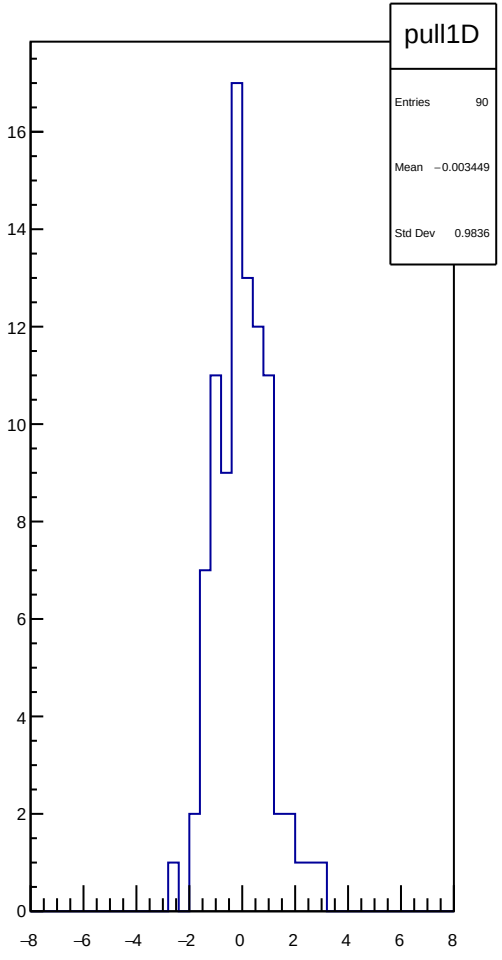

pull1D
Entries 90
Mean 0.07197
Std Dev 0.9562

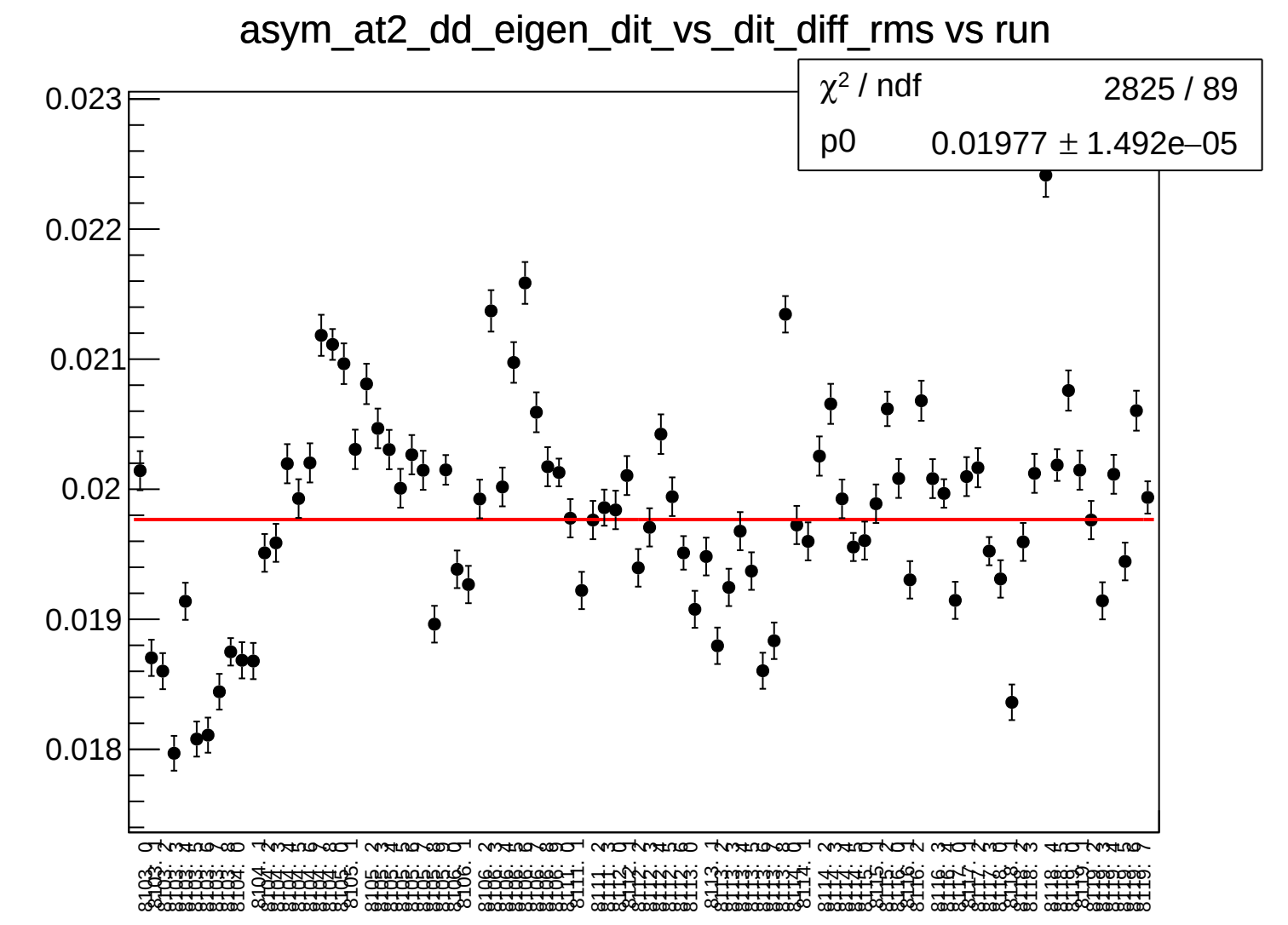

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.633e+05 / 89
p0 48.58 ± 0.03846
120
100
80
60
40
20

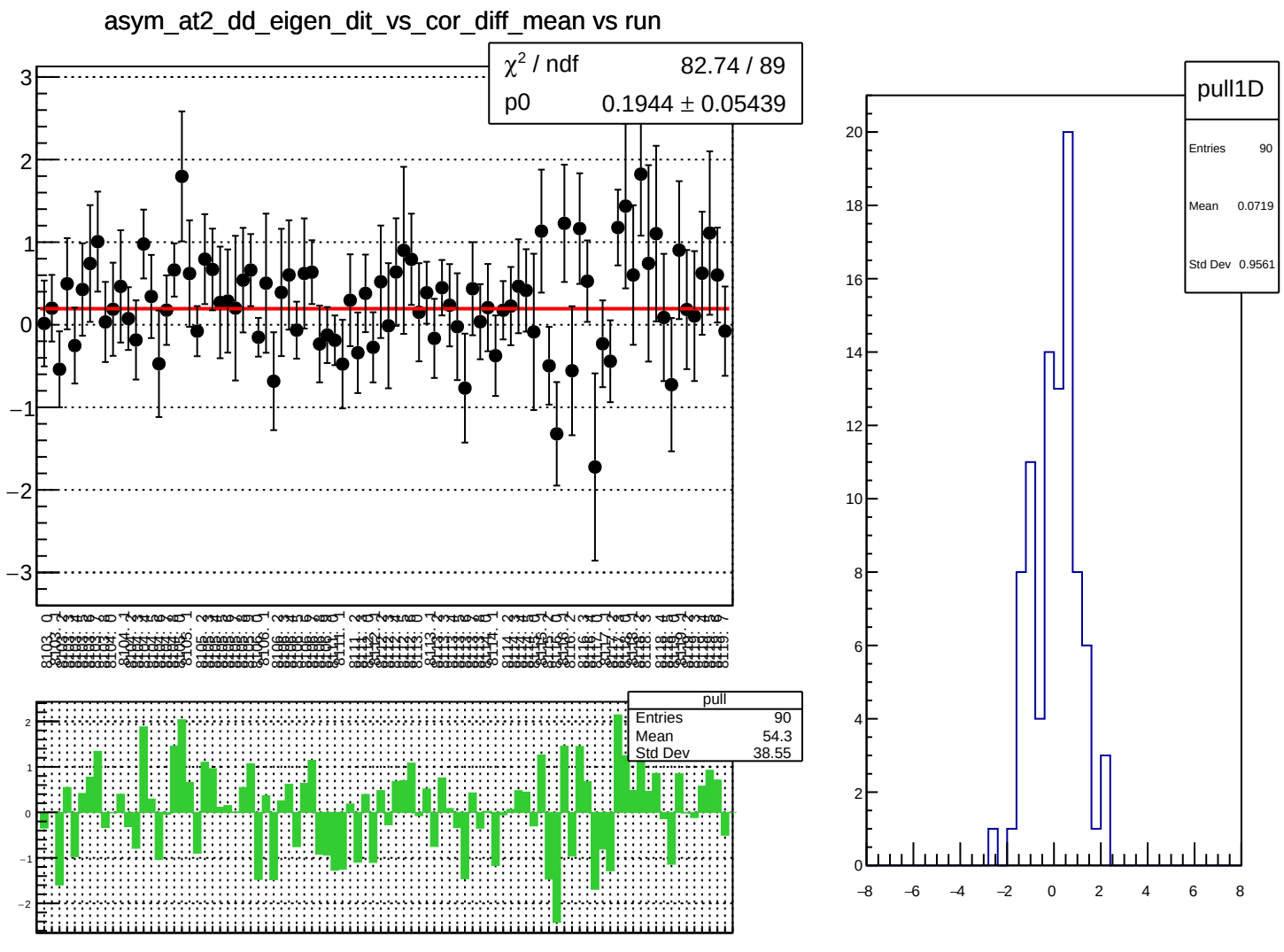

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.76 / 89
p0 0.1943 ± 0.05439
pull
Entries 90
Mean 54.3
Std Dev 38.54
pull1D
Entries 90
Mean 0.07197
Std Dev 0.9562

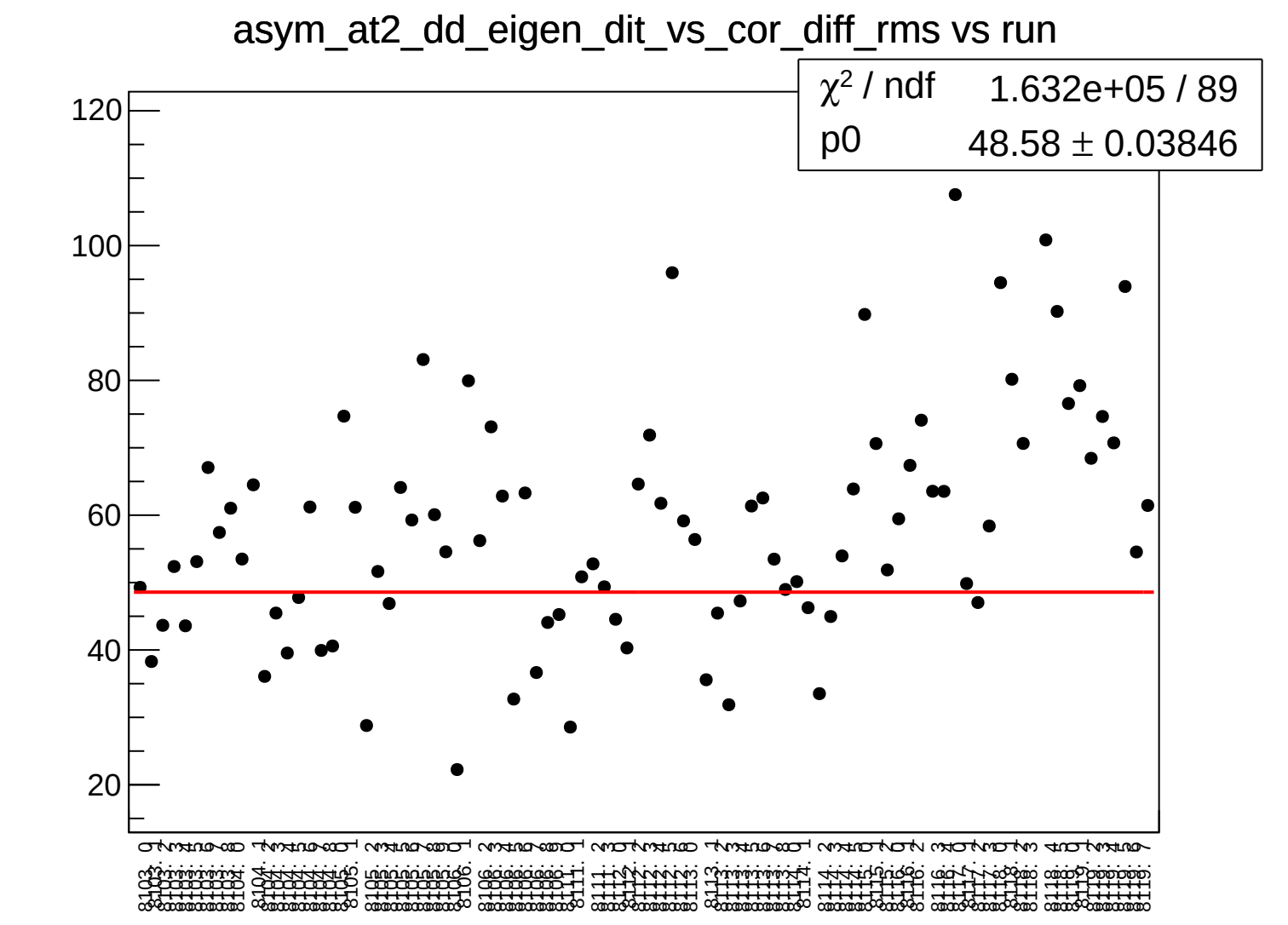

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.633e+05 / 89
p0 48.58 ± 0.03846
120
100
80
60
40
20

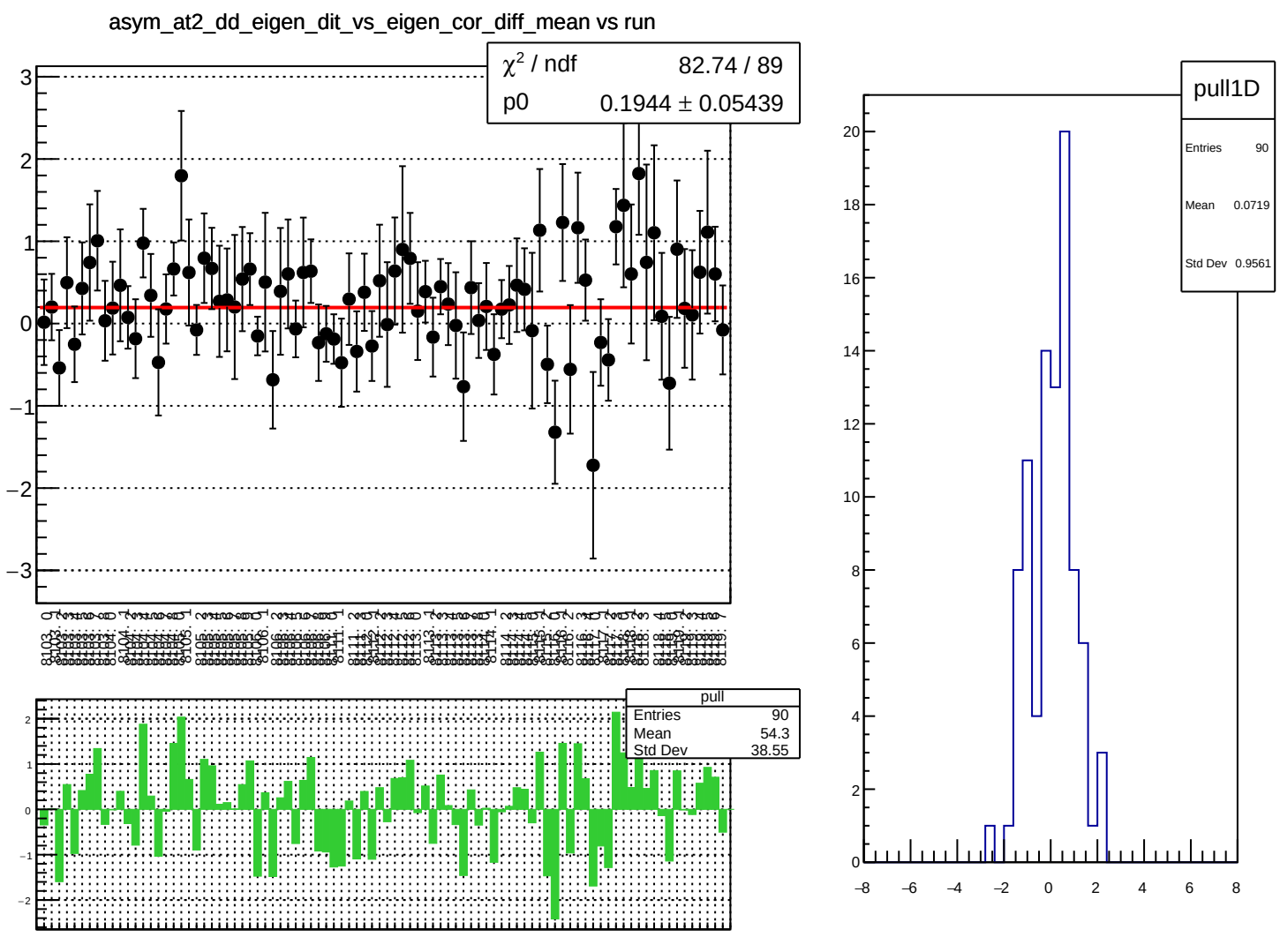

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.08 / 89
p0 −5.077e−05 ± 2.11e−05
pull
Entries 90
Mean 1391
Std Dev 0

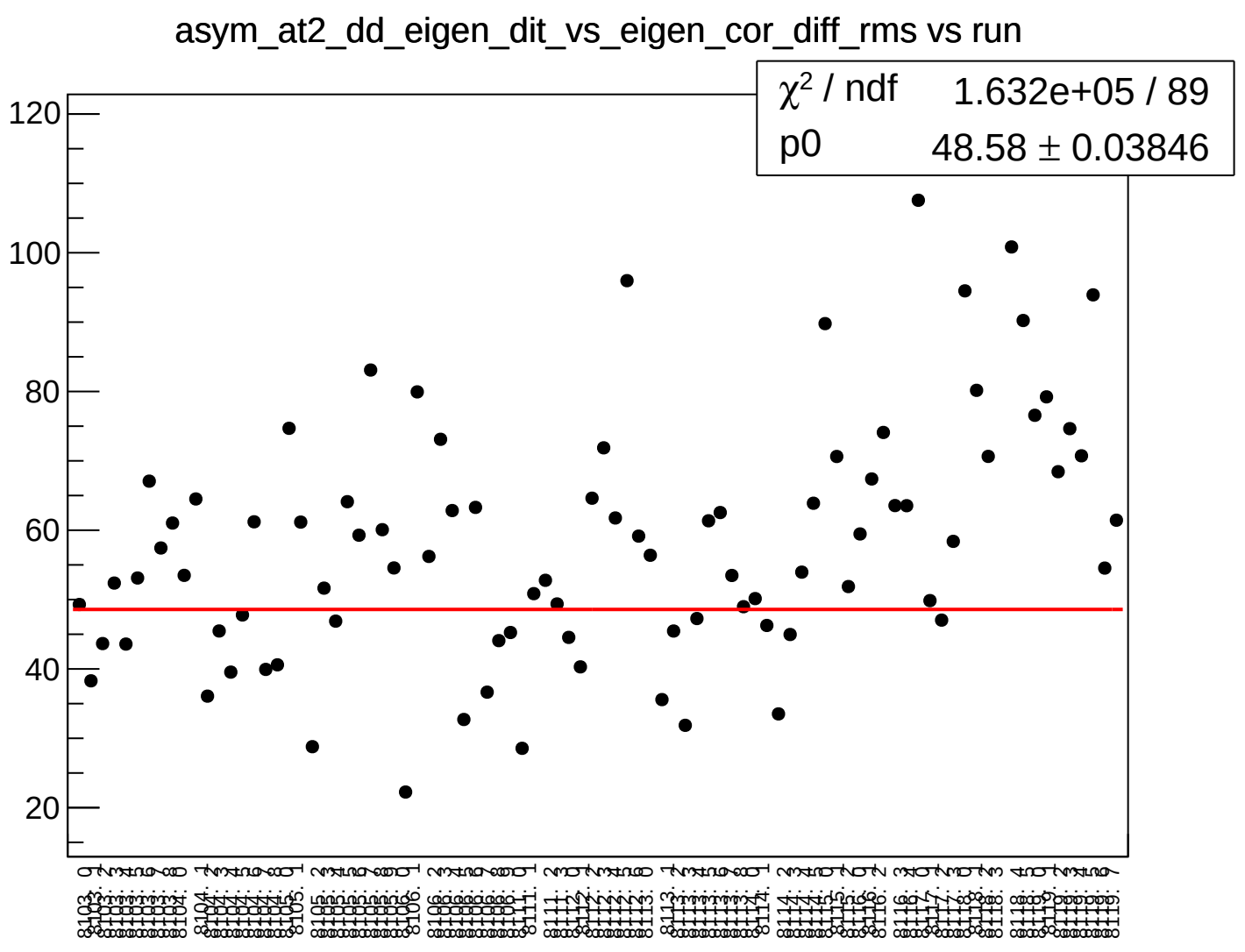

pull1D
Entries 90
Mean −0.003449
Std Dev 0.9836

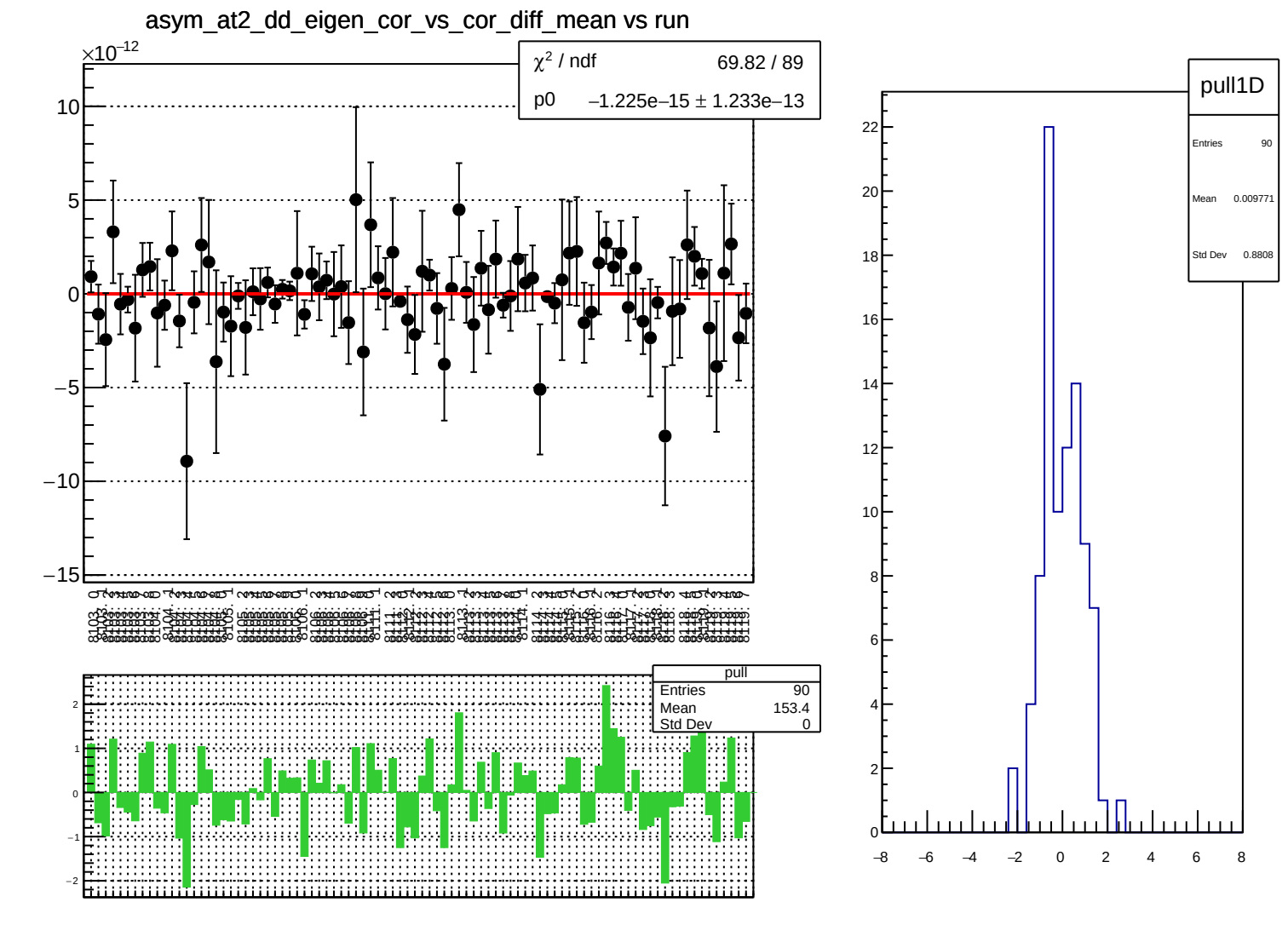

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2825 / 89
p0 0.01977 ± 1.492e−05
0.023
0.022
0.021
0.02
0.019
0.018

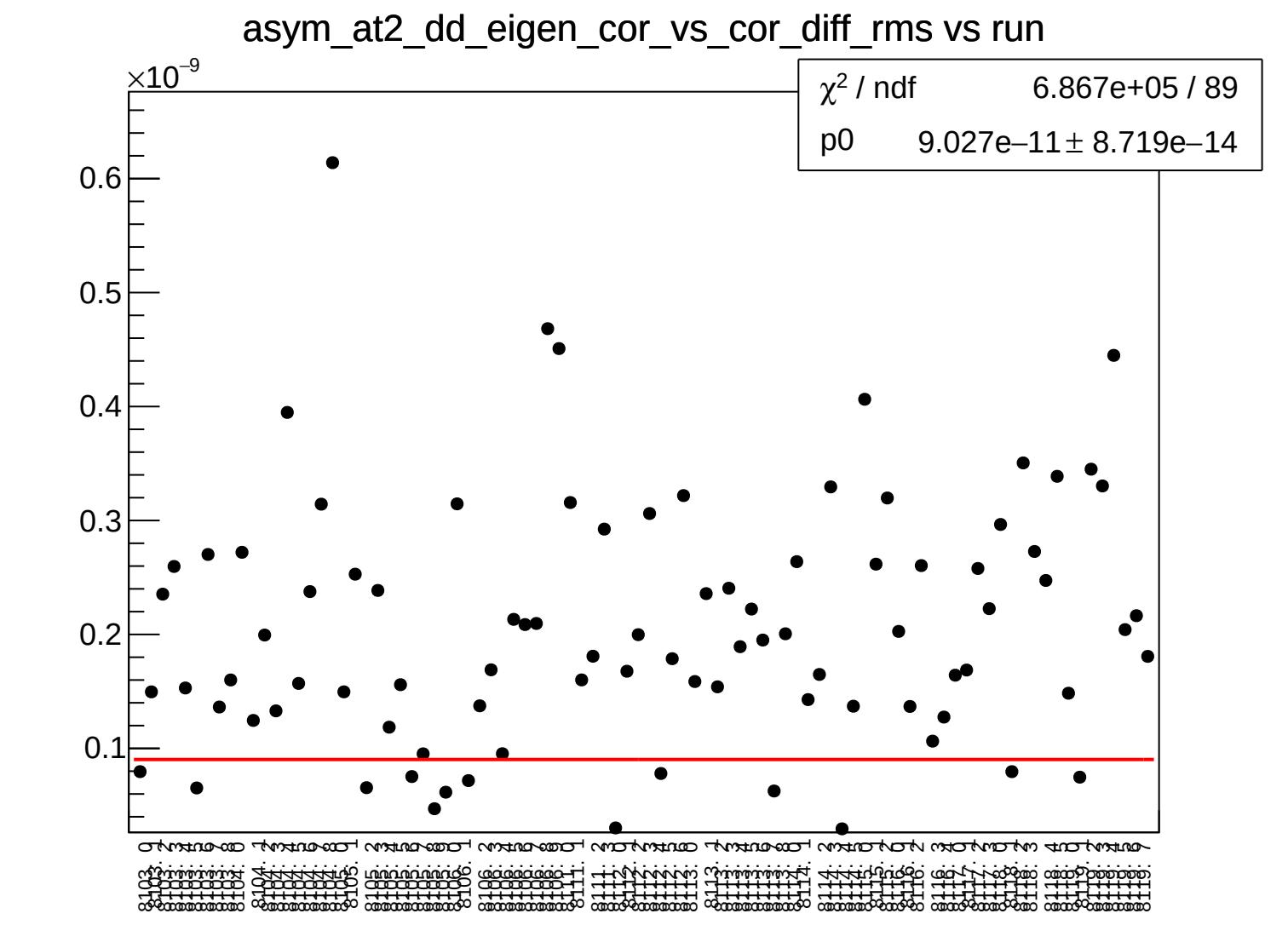

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.74 / 89
p0 0.1944 ± 0.05439
pull
Entries 90
Mean 54.3
Std Dev 38.55
pull1D
Entries 90
Mean 0.0719
Std Dev 0.9561

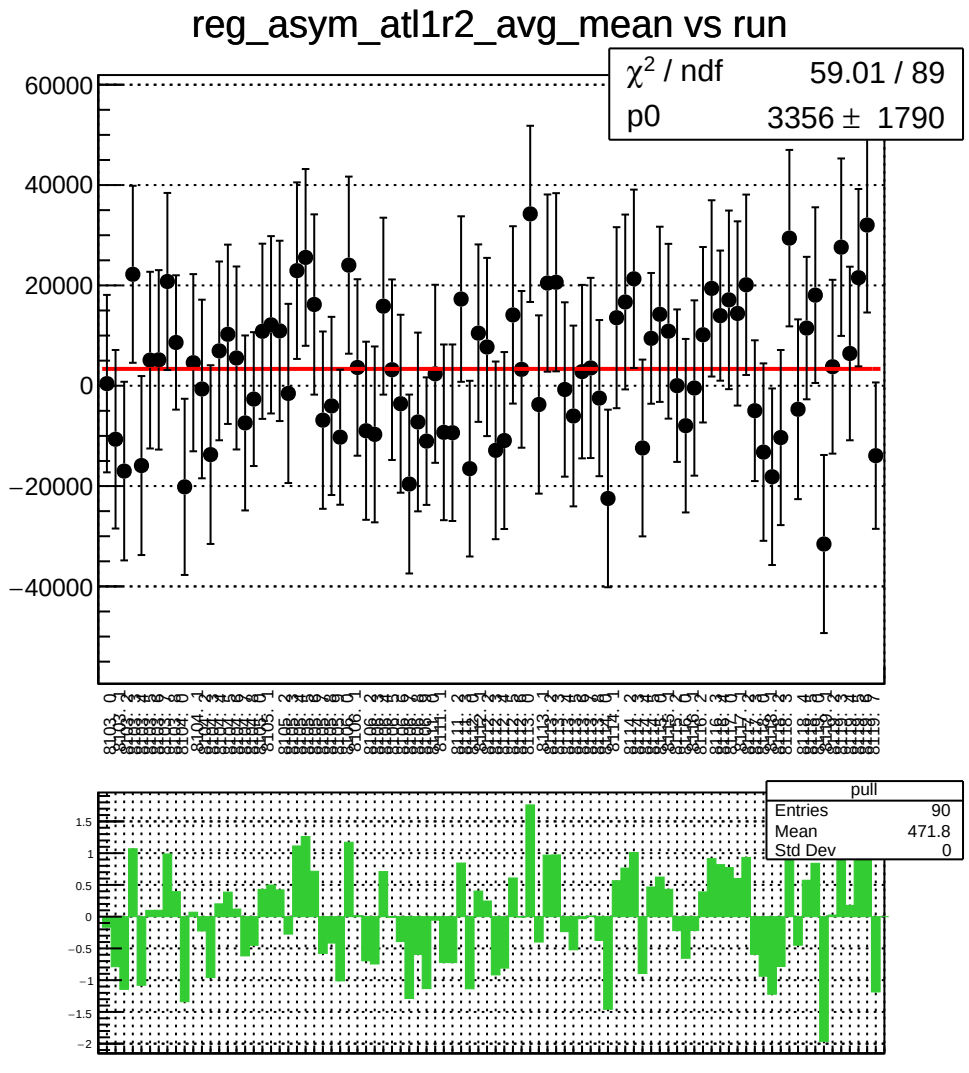

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.632e+05 / 89
p0 48.58 ± 0.03846
120
100
80
60
40
20

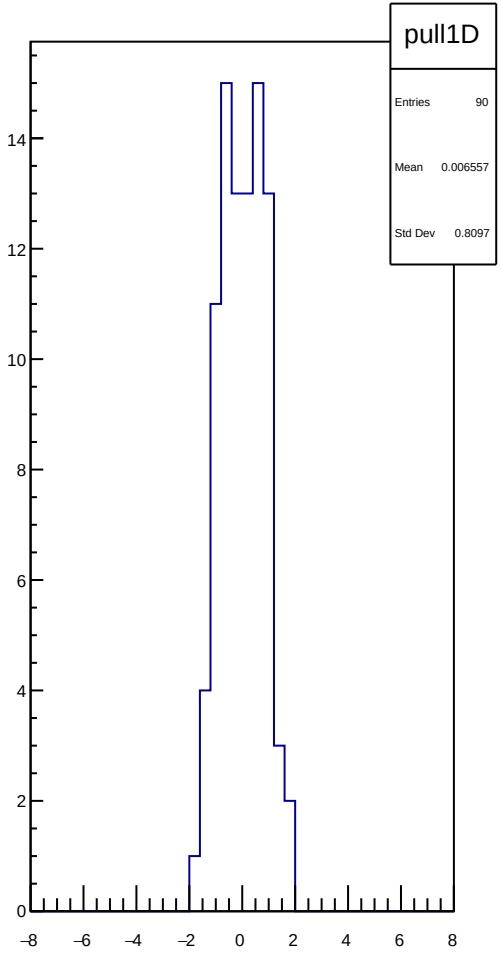

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.74 / 89
p0 0.1944 ± 0.05439
pull
Entries 90
Mean 54.3
Std Dev 38.55
pull1D
Entries 90
Mean 0.0719
Std Dev 0.9561

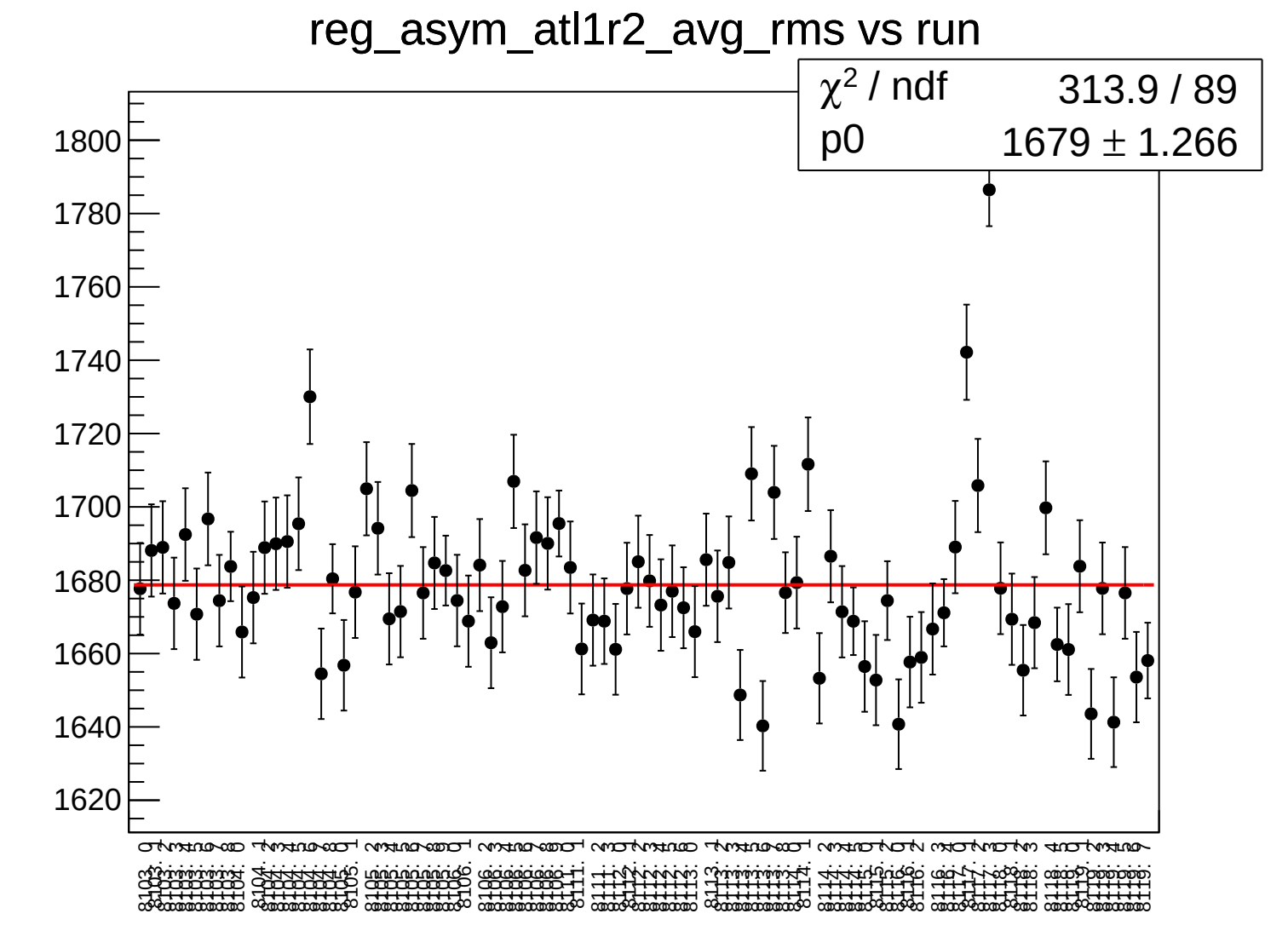

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.632e+05 / 89
p0 48.58 ± 0.03846
120
100
80
60
40
20

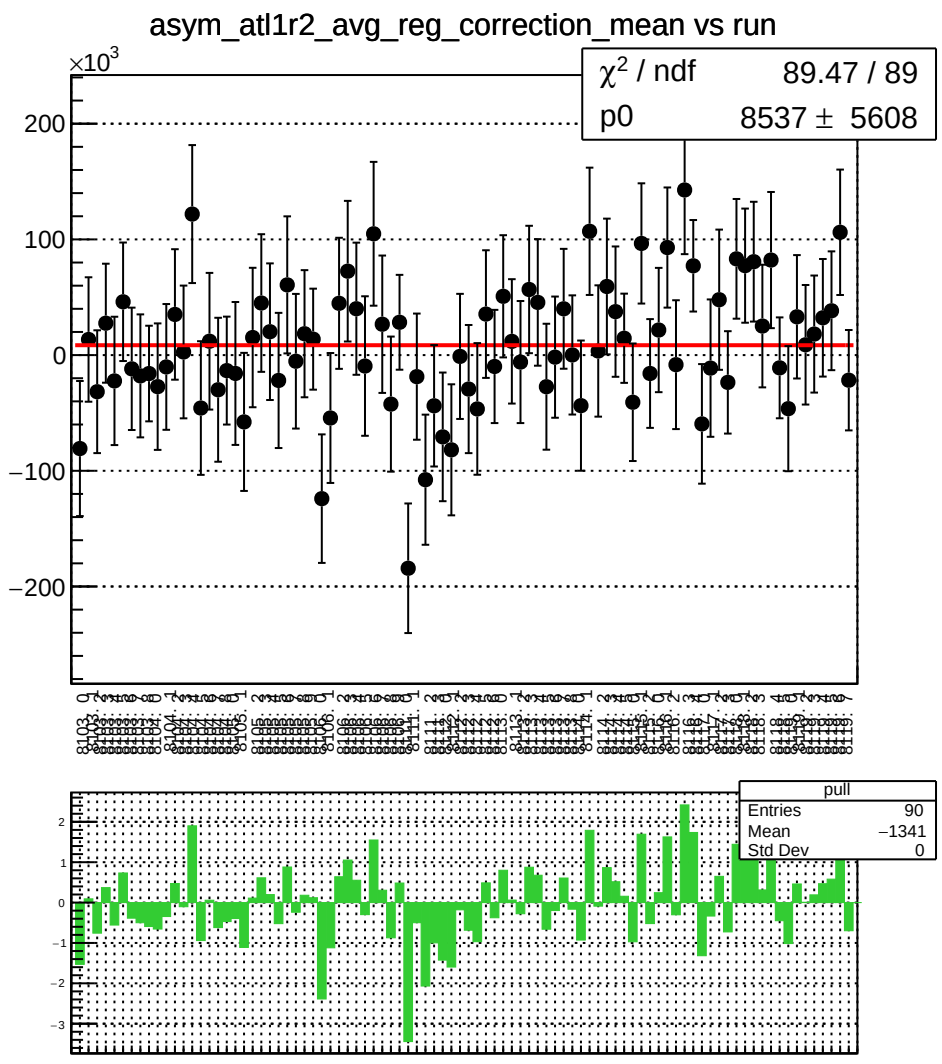

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.82 / 89
p0 −1.225e−15 ± 1.233e−13
pull
Entries 90
Mean 153.4
Std Dev 0
pull1D
Entries 90
Mean 0.009771
Std Dev 0.8808

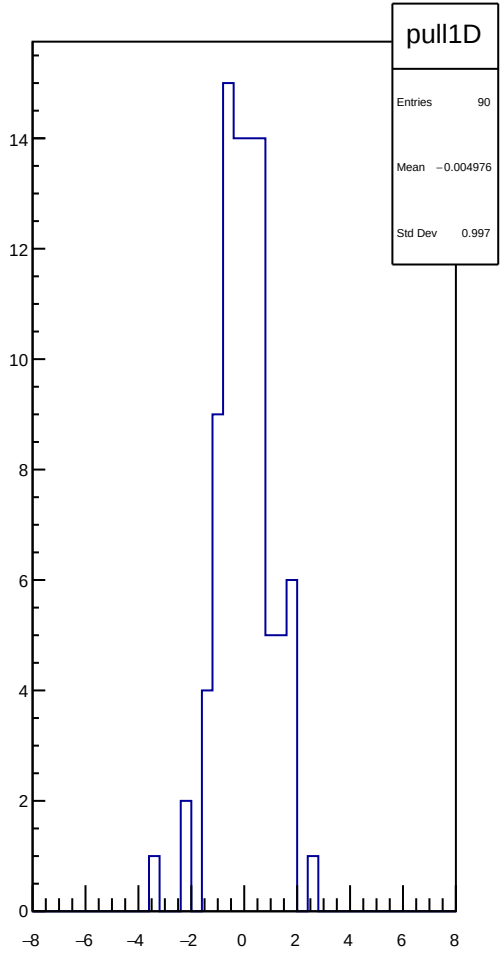

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.867e+05 / 89
p0 9.027e−11 ± 8.719e−14
0.6
0.5
0.4
0.3
0.2
0.1

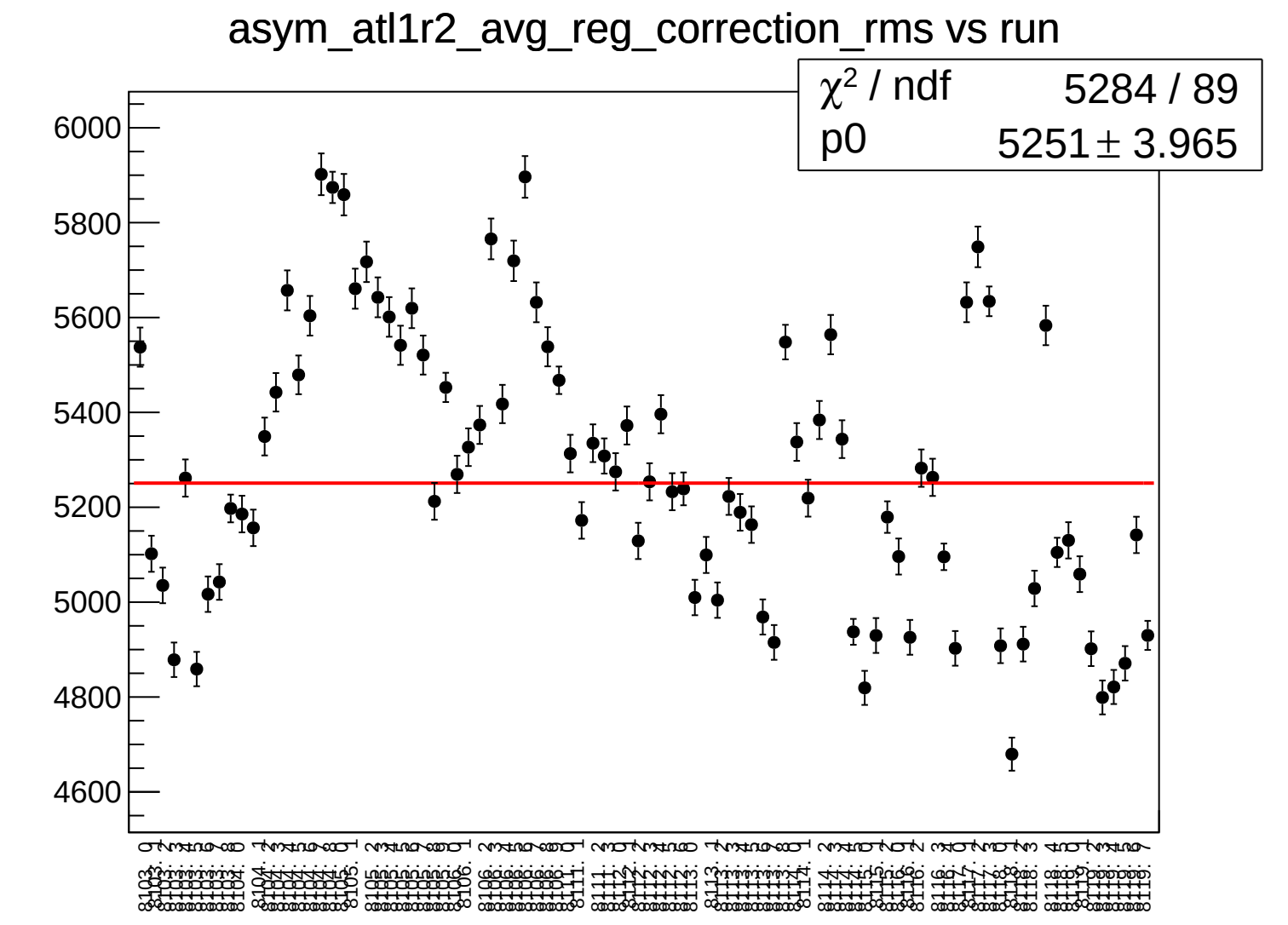

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 59.01 / 89
p0 3356 ± 1790
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 471.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

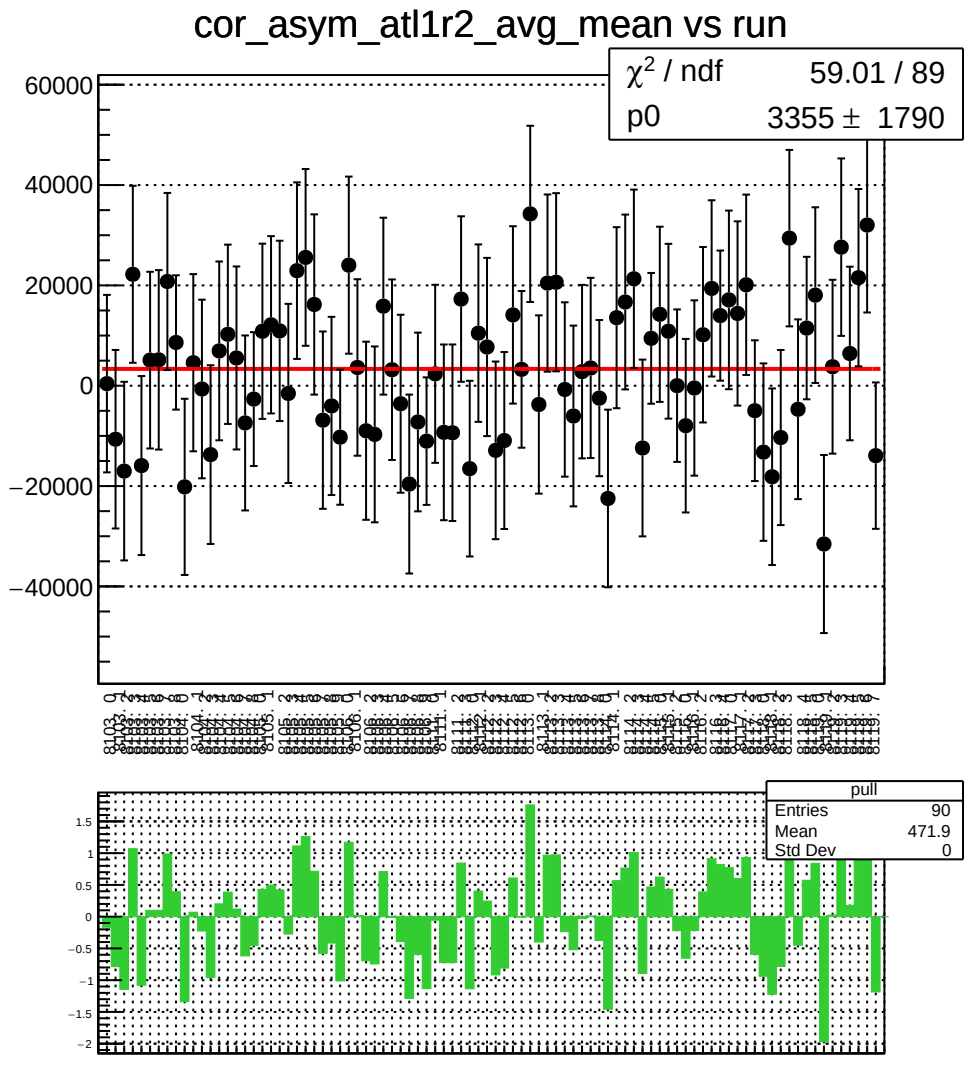

pull1D
Entries 90
Mean 0.006557
Std Dev 0.8097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

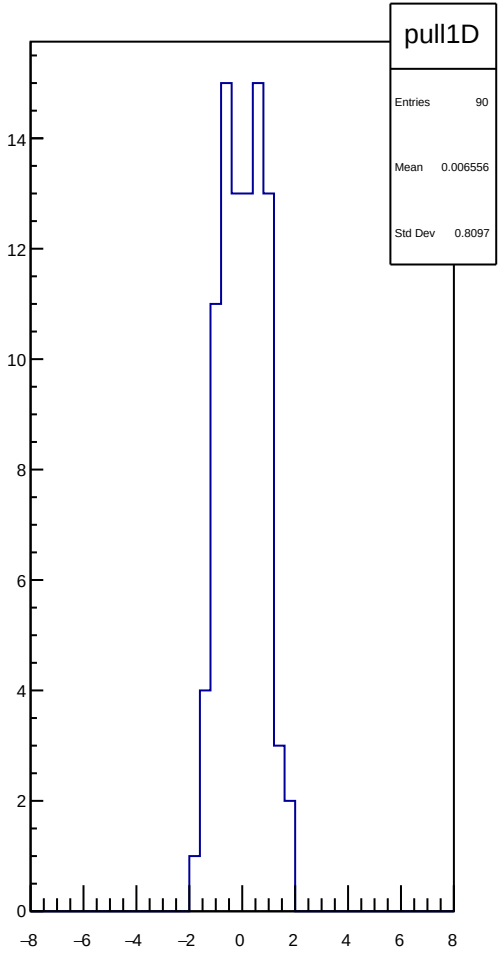

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 313.9 / 89
p0 1679 ± 1.266
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

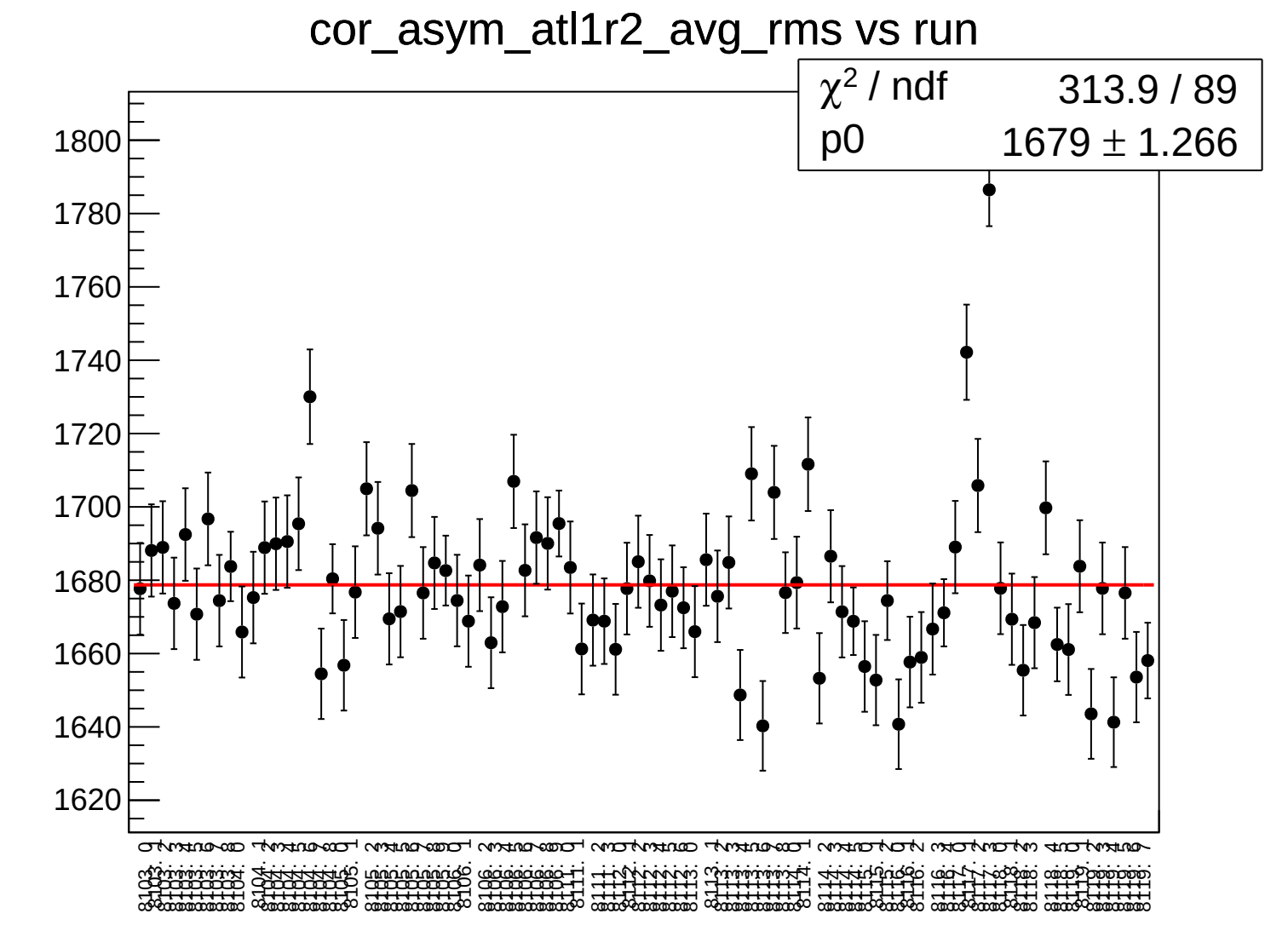

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.47 / 89
p0 8537 ± 5608
200
100
0
−100
−200
pull
Entries 90
Mean −1341
Std Dev 0
2
1
0
−1
−2
−3

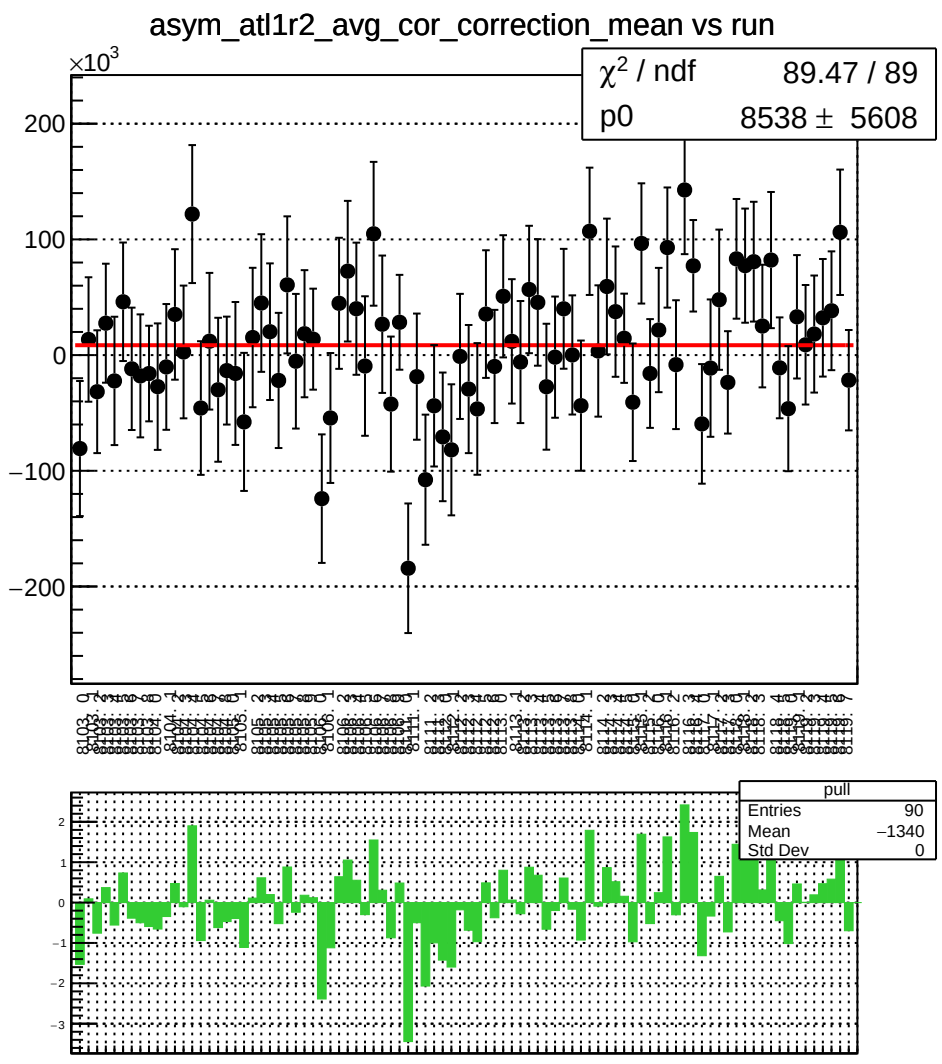

pull1D
Entries 90
Mean −0.004976
Std Dev 0.997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

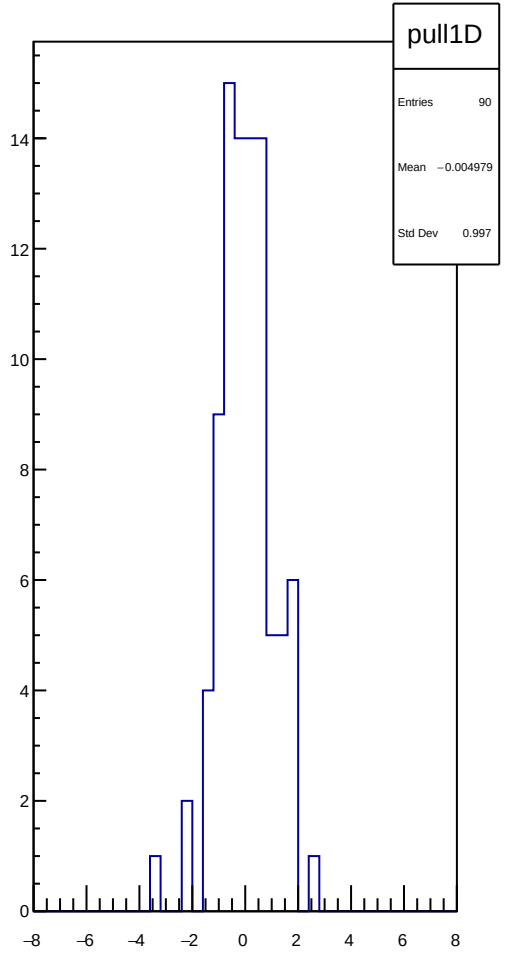

asym_atl1r2_avg_reg_correction_rms vs run
χ^2 / ndf 5284 / 89
p0 5251 ± 3.965
6000
5800
5600
5400
5200
5000
4800
4600

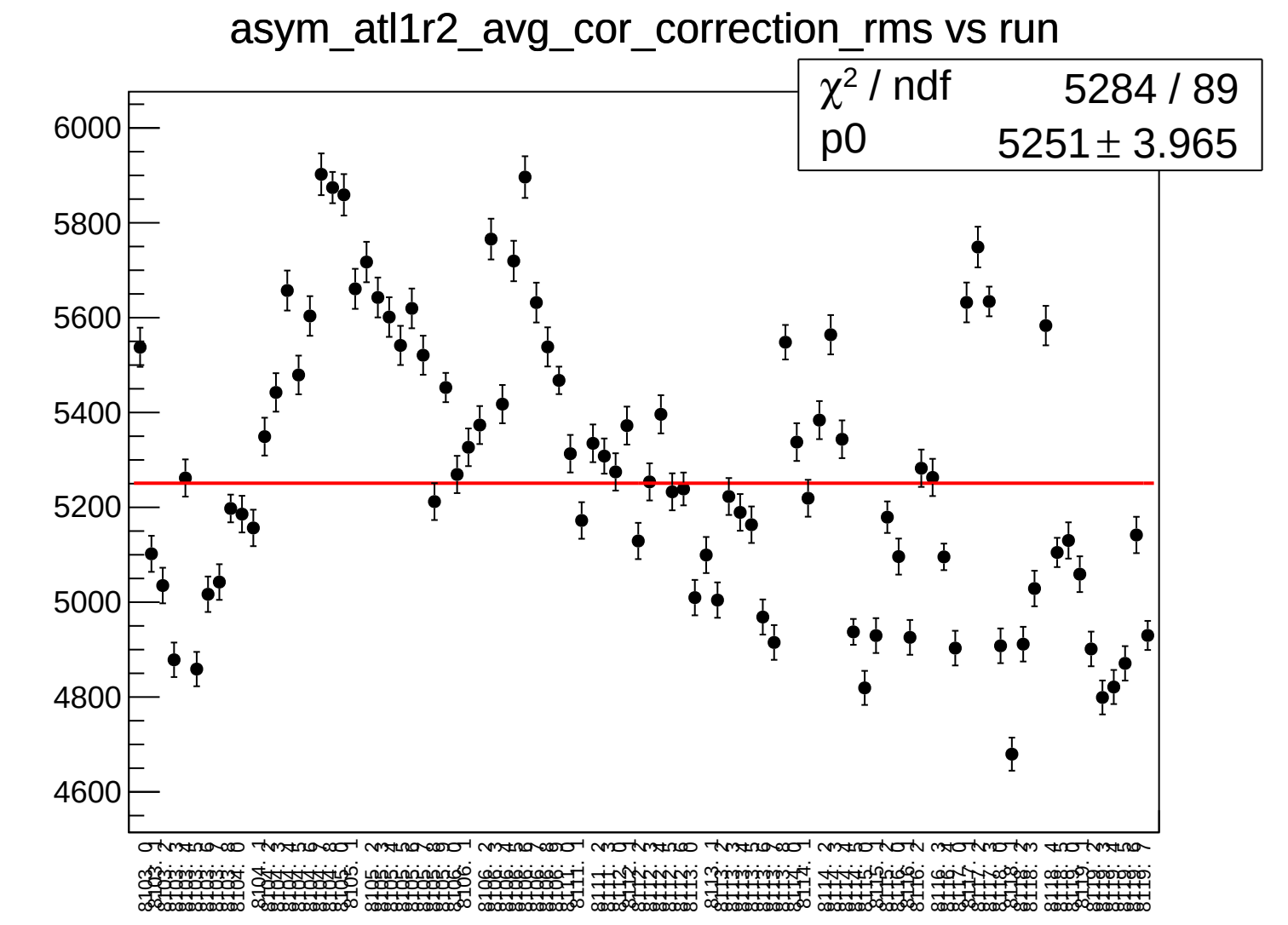

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 59.01 / 89
p0 3355 ± 1790
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 471.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

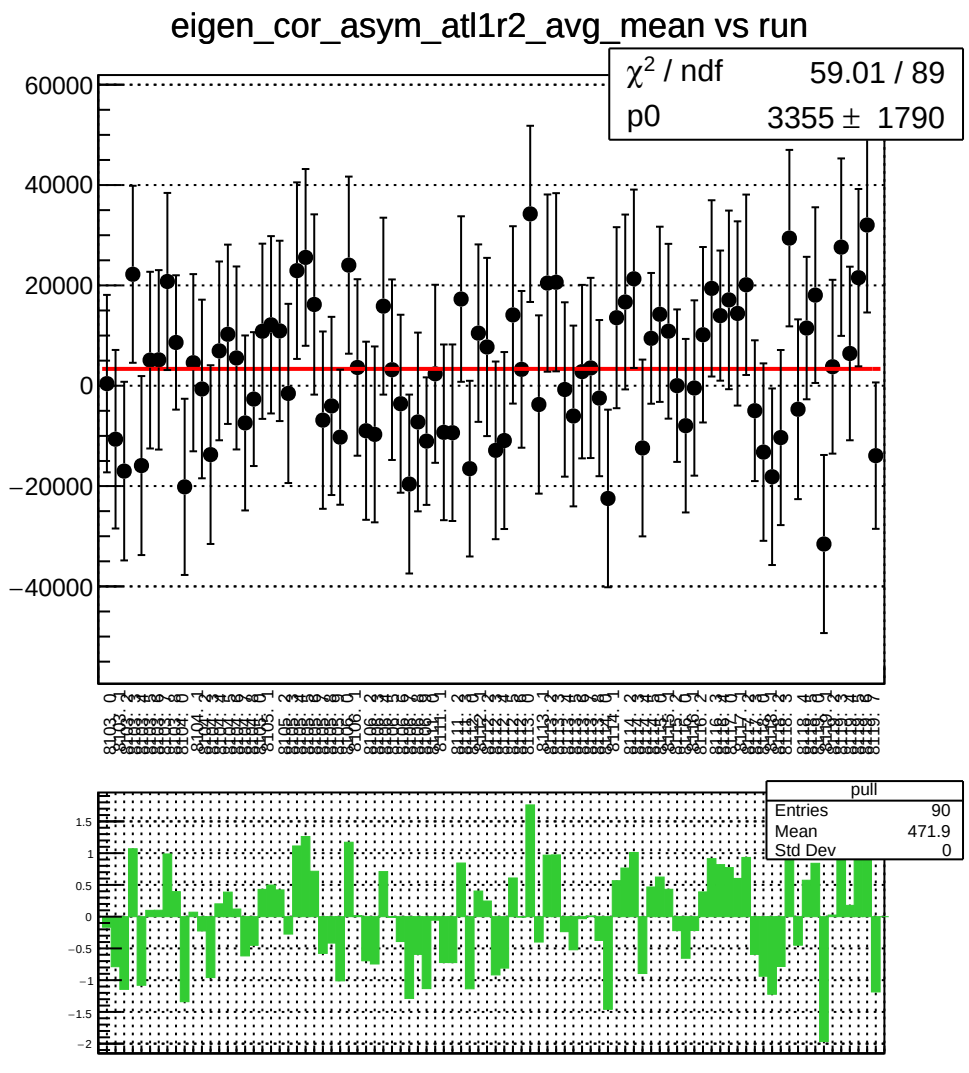

pull1D
Entries 90
Mean 0.006556
Std Dev 0.8097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

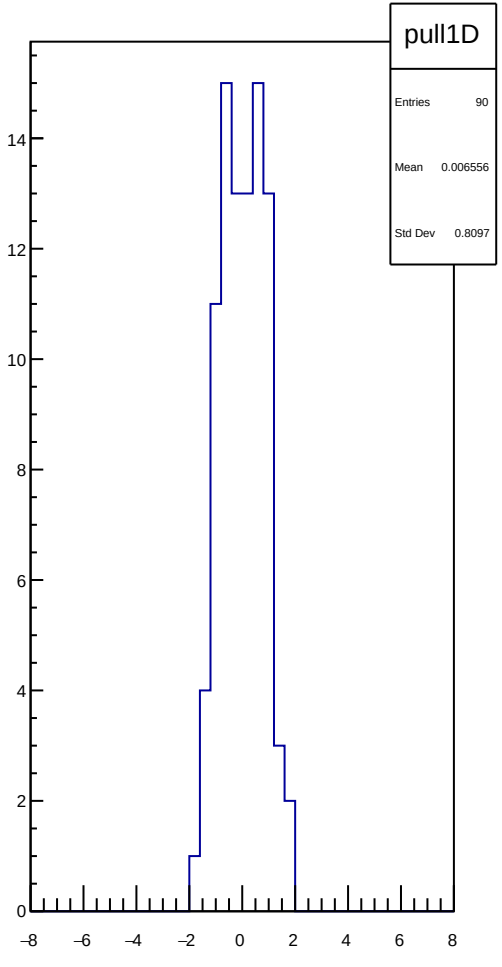

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 313.9 / 89
p0 1679 ± 1.266
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

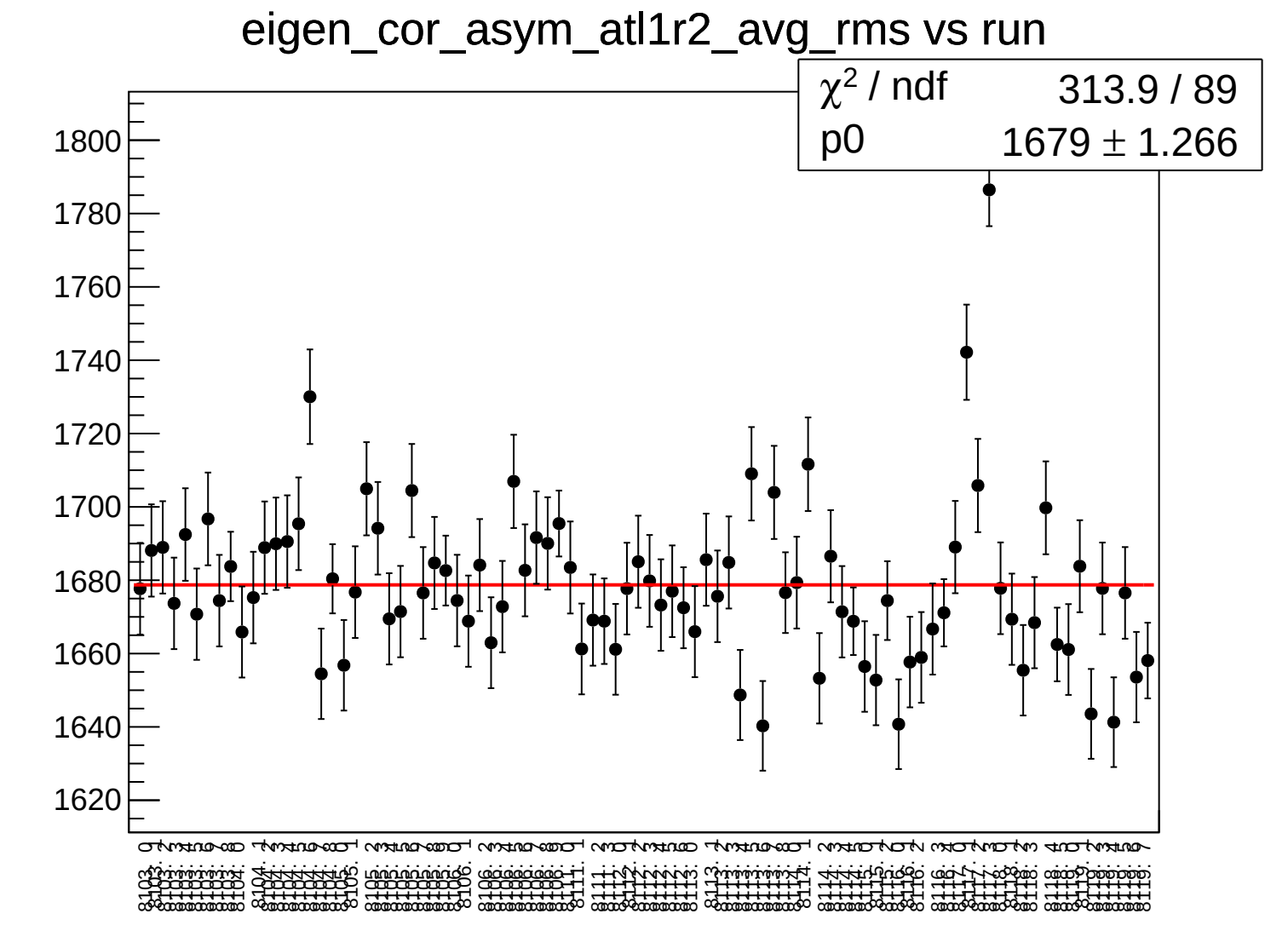

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.47 / 89
p0 8538 ± 5608
200
100
0
−100
−200
pull
Entries 90
Mean −1340
Std Dev 0
2
1
0
−1
−2
−3

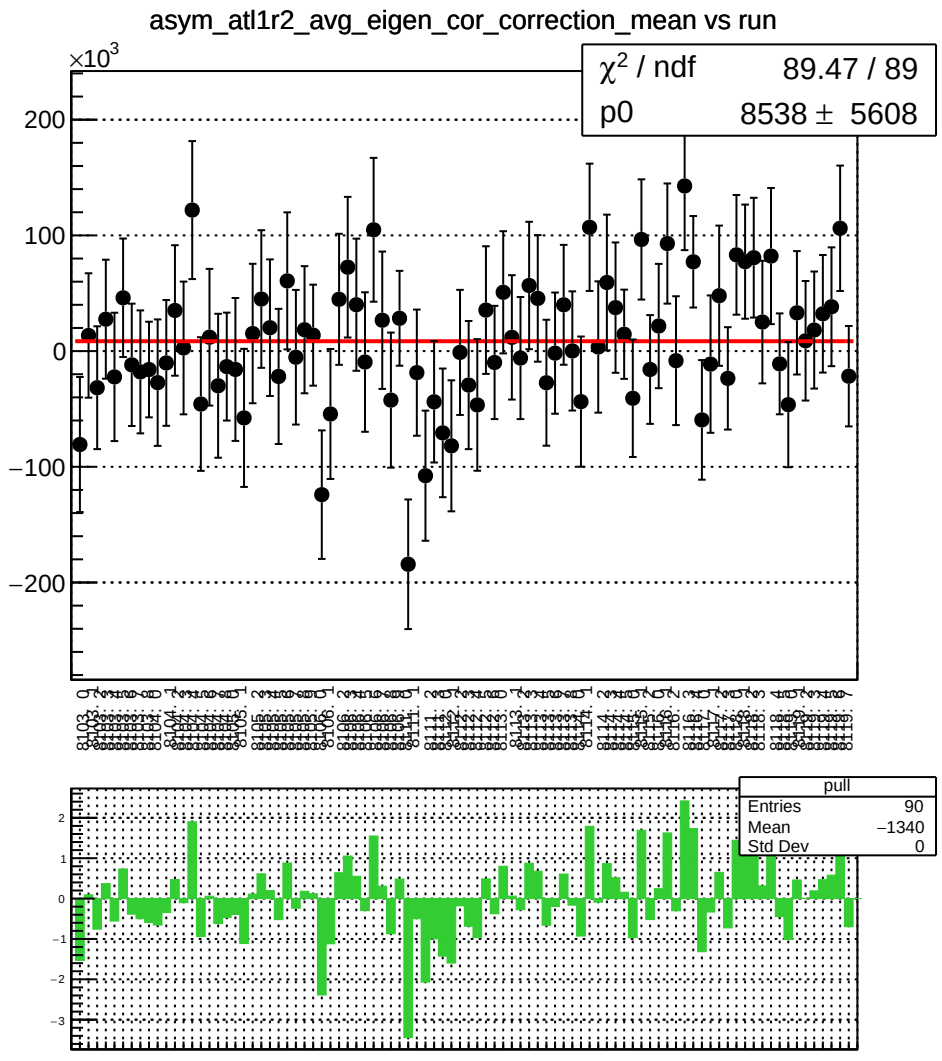

pull1D
Entries 90
Mean −0.004979
Std Dev 0.997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

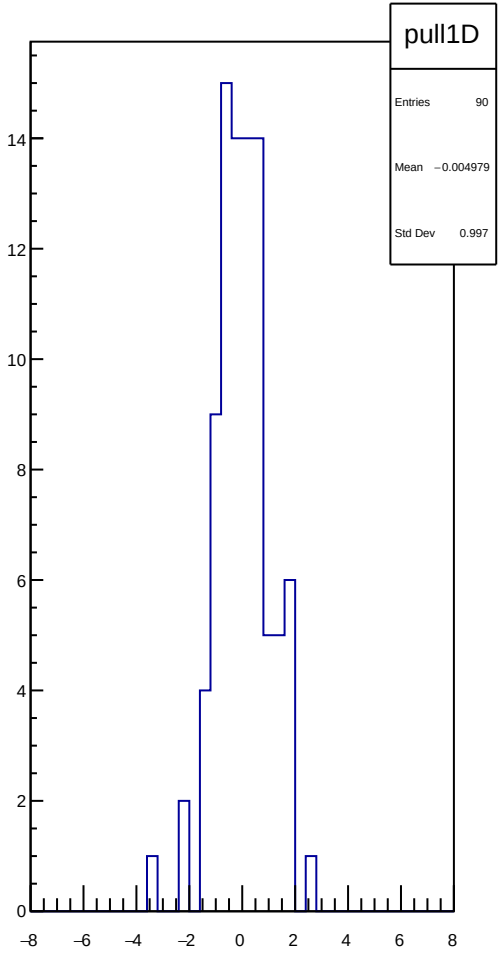

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 5284 / 89
p0 5251 ± 3.965
6000
5800
5600
5400
5200
5000
4800
4600

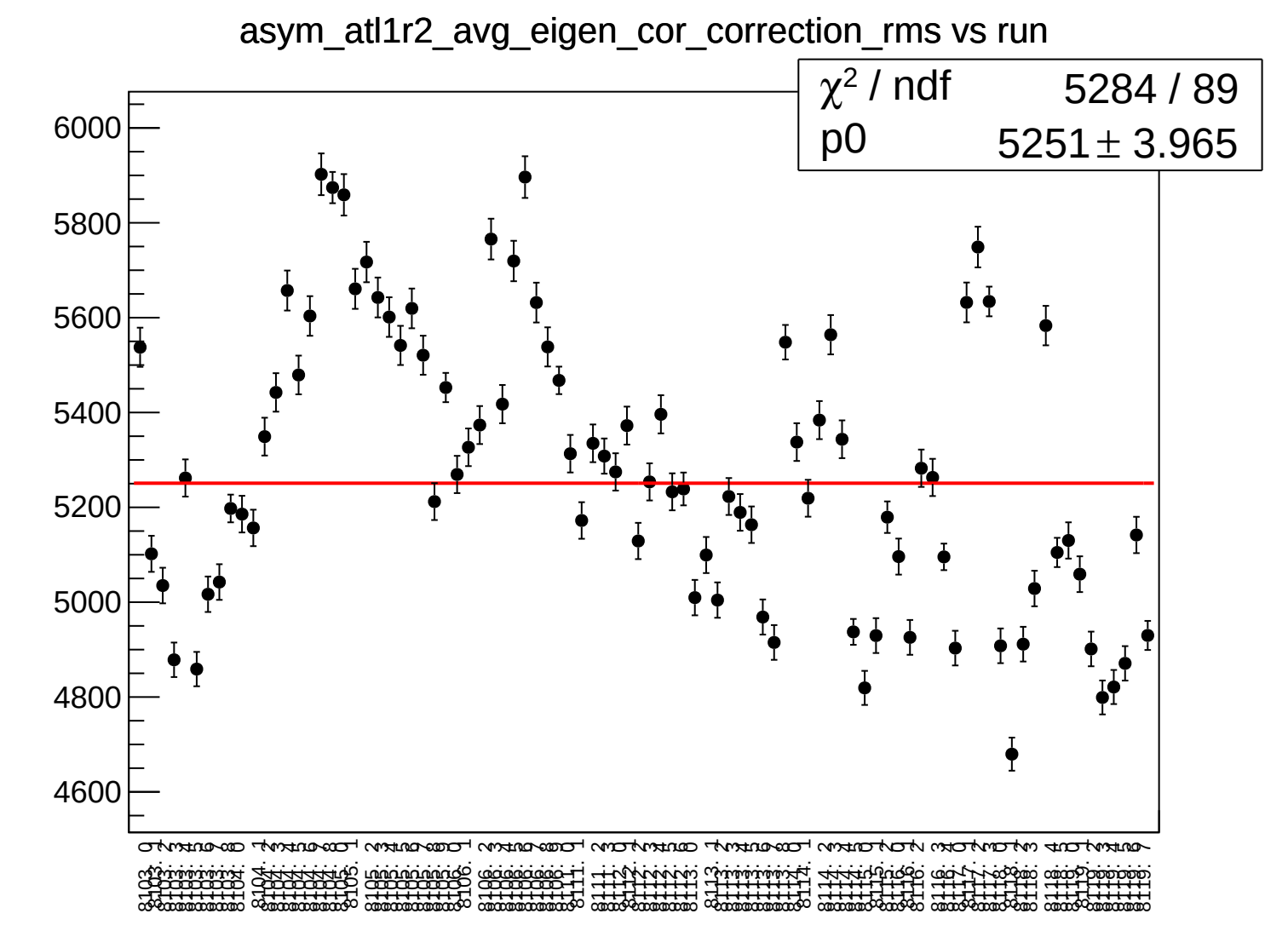

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 59.01 / 89
p0 3355 ± 1790
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 471.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

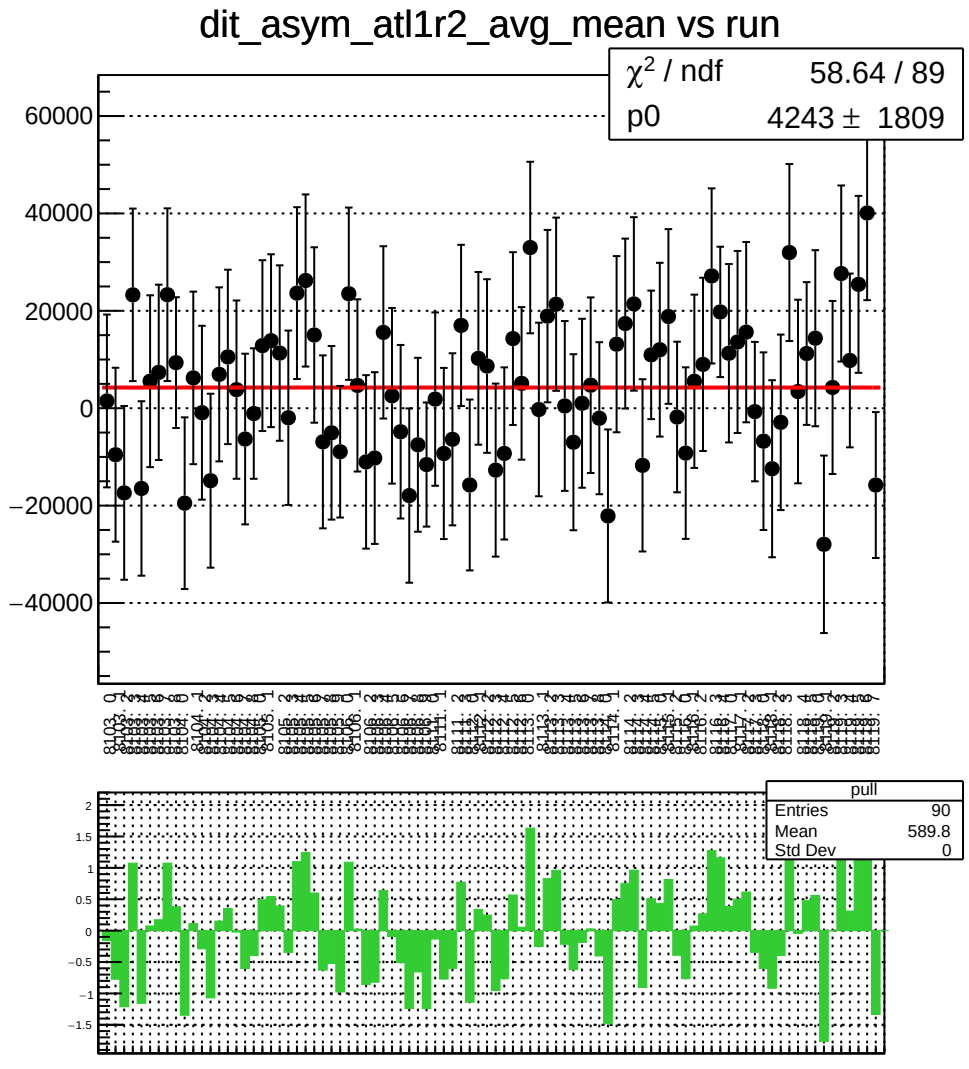

pull1D
Entries 90
Mean 0.006556
Std Dev 0.8097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

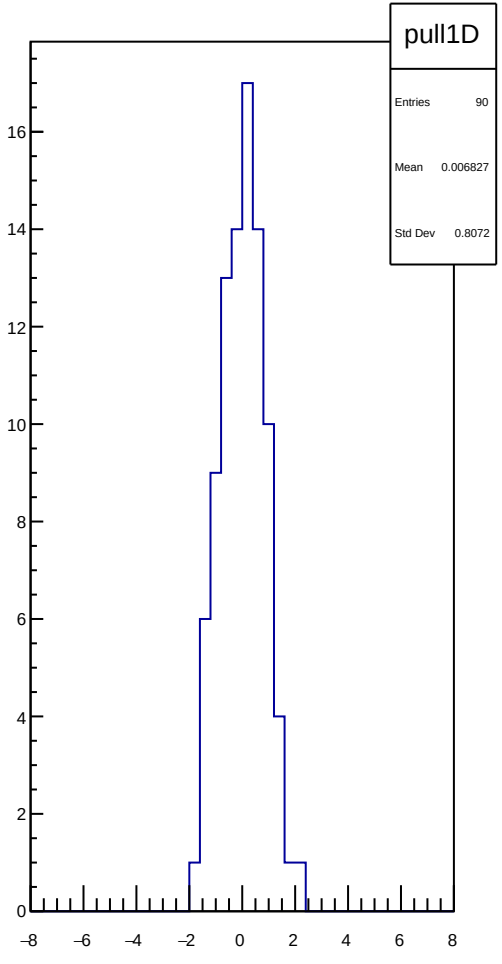

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 313.9 / 89
p0 1679 ± 1.266
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

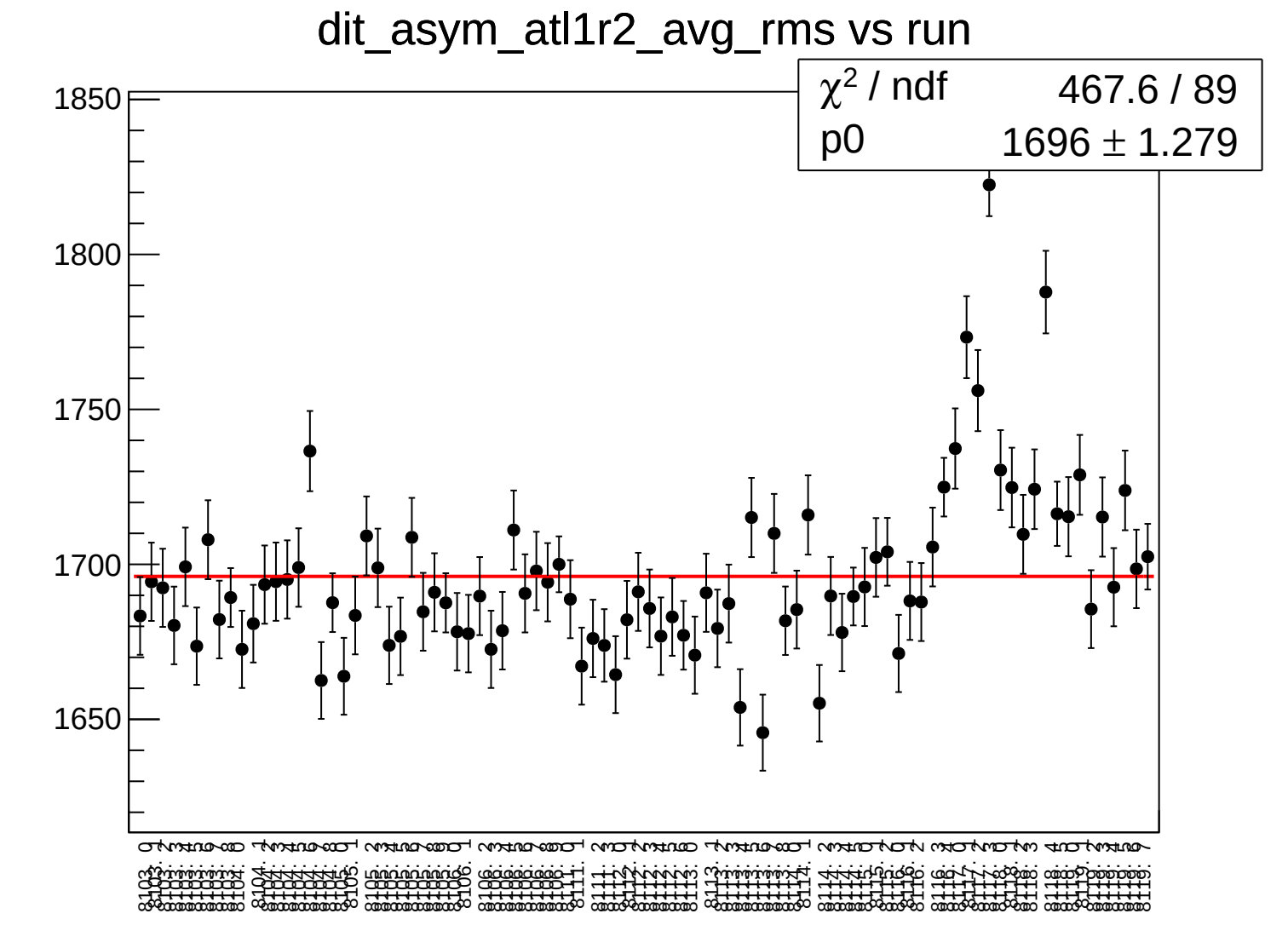

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.47 / 89
p0 8538 ± 5608
200
100
0
−100
−200
pull
Entries 90
Mean −1340
Std Dev 0
2
1
0
−1
−2
−3

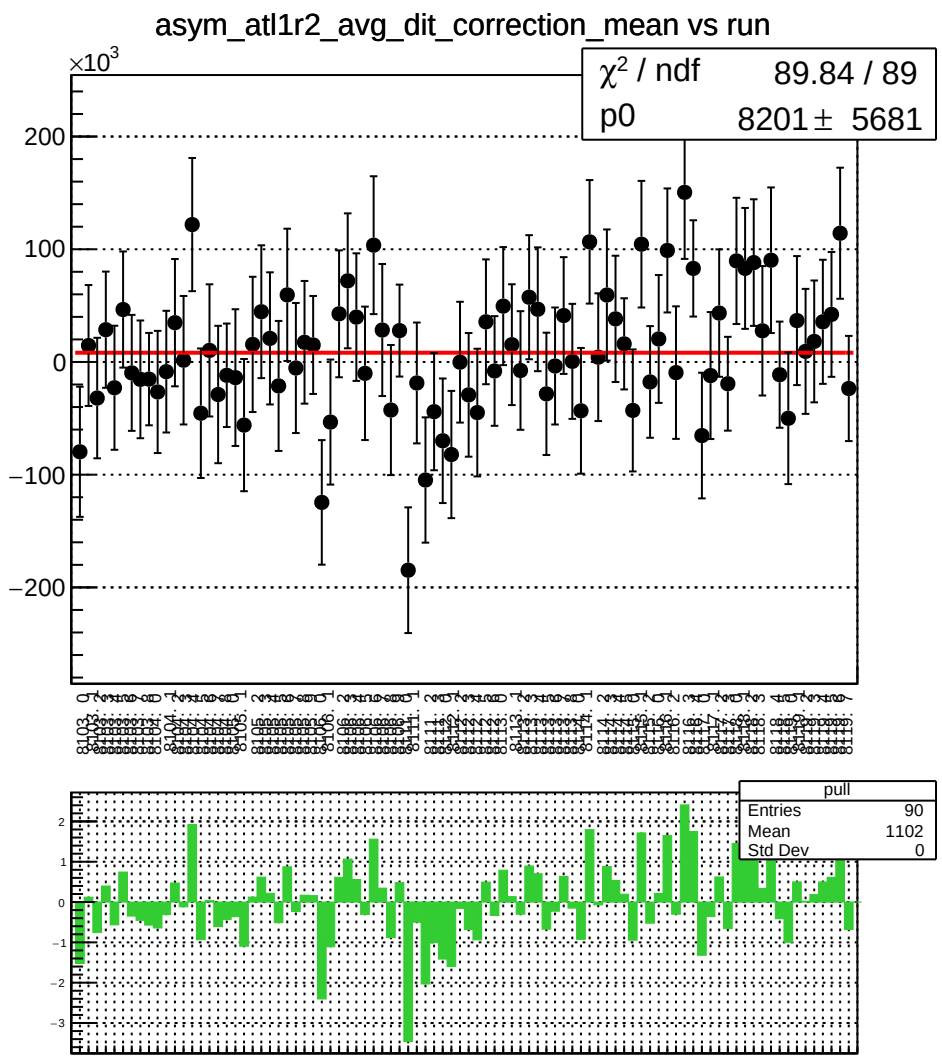

pull1D
Entries 90
Mean −0.004979
Std Dev 0.997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

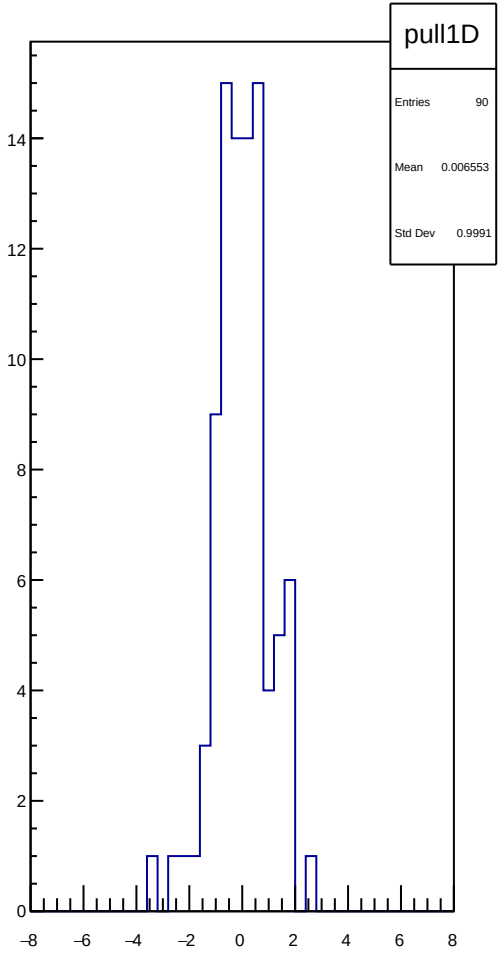

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5284 / 89
p0 5251 ± 3.965
6000
5800
5600
5400
5200
5000
4800
4600

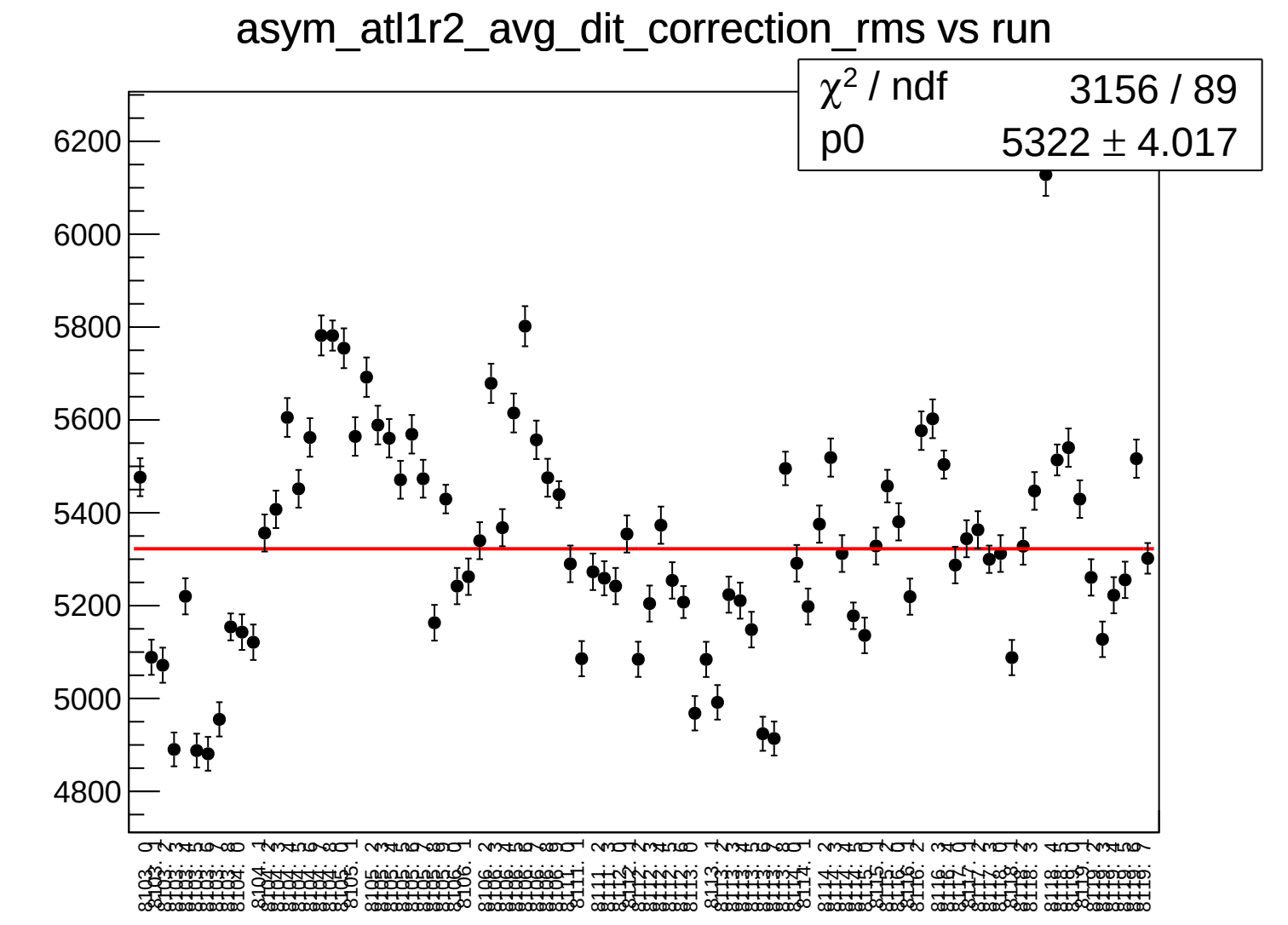

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 58.64 / 89
p0 4243 ± 1809
pull
Entries 90
Mean 589.8
Std Dev 0

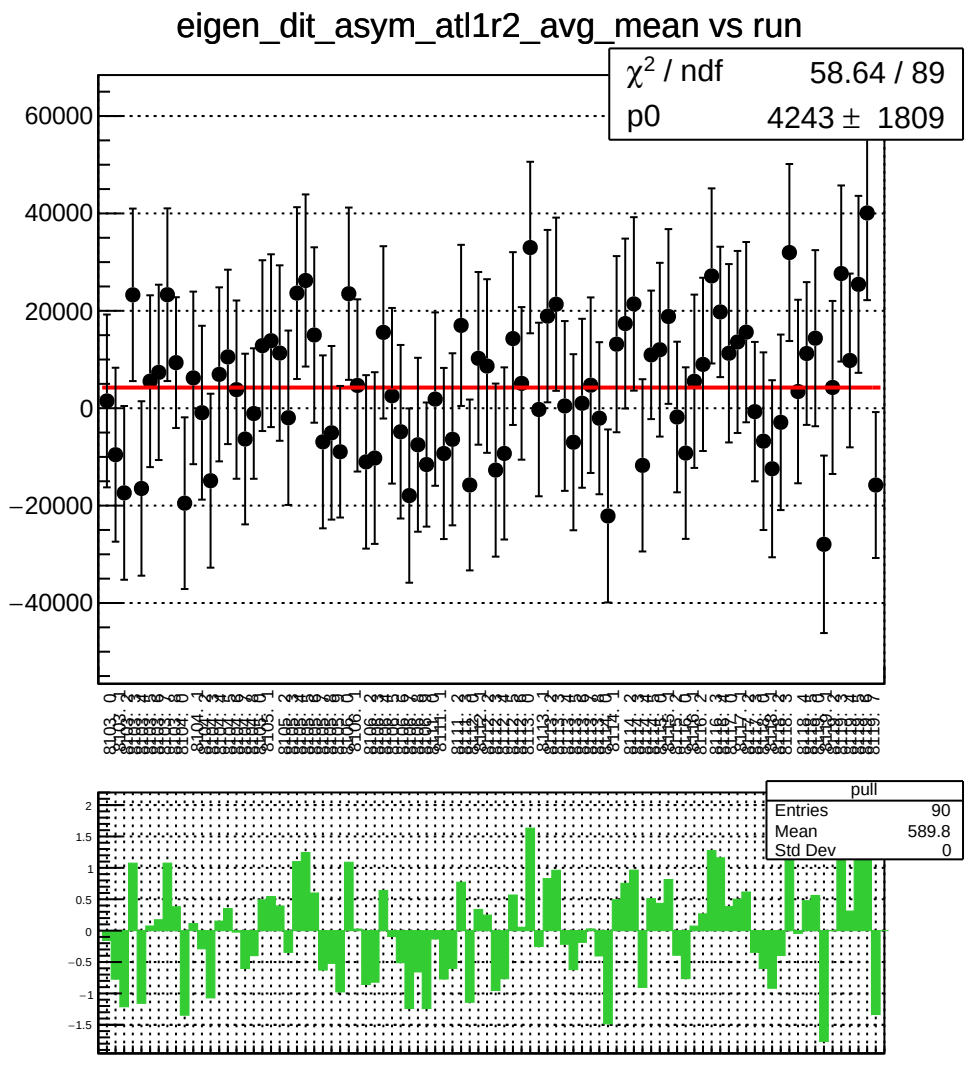

pull1D
Entries 90
Mean 0.006827
Std Dev 0.8072

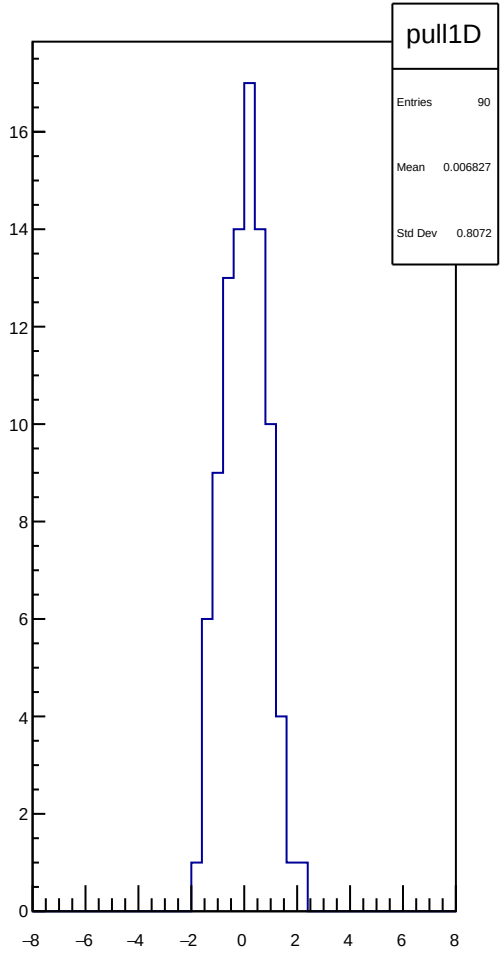

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 467.6 / 89
p0 1696 ± 1.279
1850
1800
1750
1700
1650

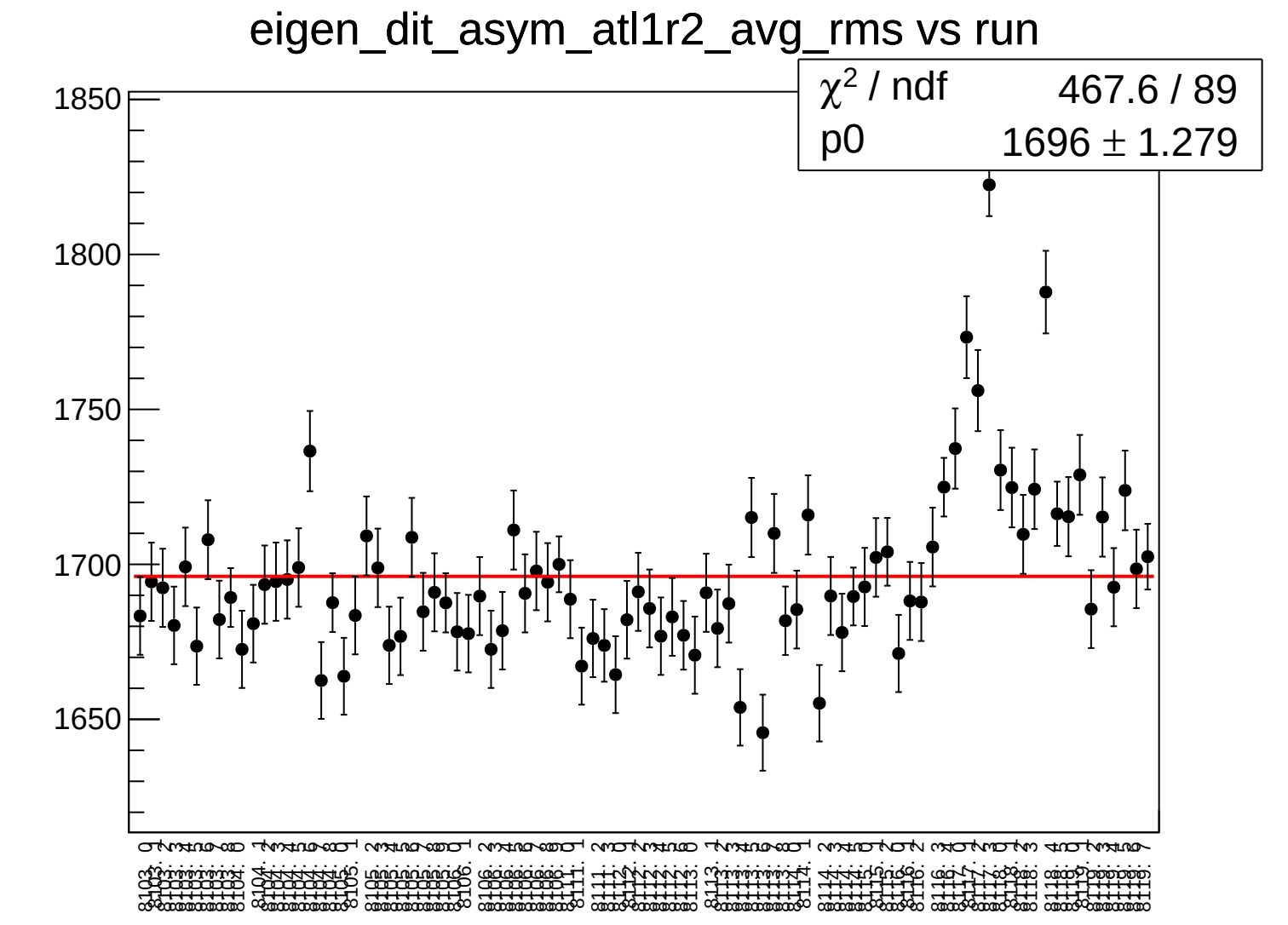

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.84 / 89
p0 8201 ± 5681
200
100
0
−100
−200
pull
Entries 90
Mean 1102
Std Dev 0
2
1
0
−1
−2
−3

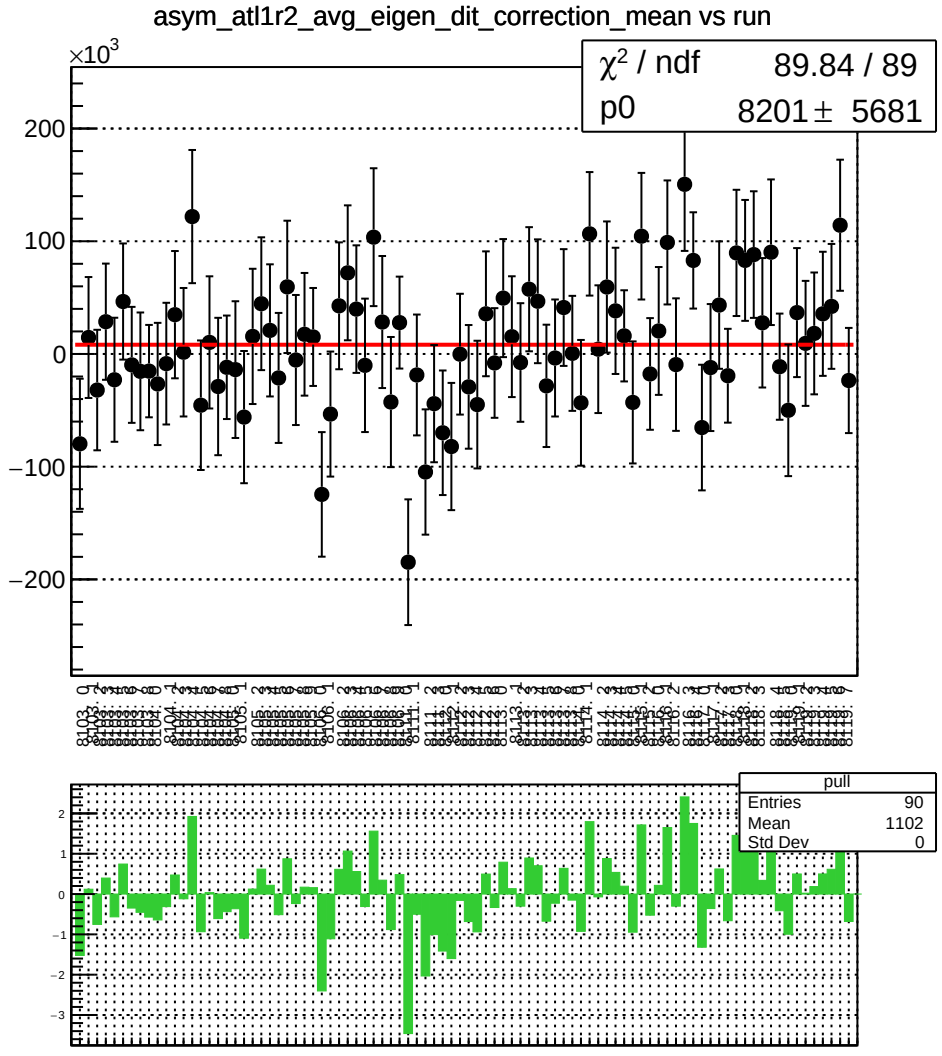

pull1D
Entries 90
Mean 0.006553
Std Dev 0.9991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

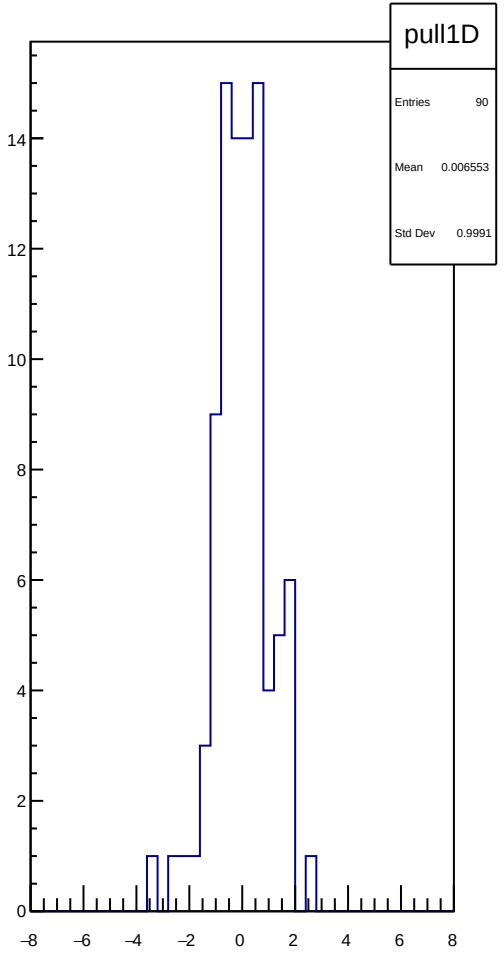

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 3156 / 89
p0 5322 ± 4.017
6200
6000
5800
5600
5400
5200
5000
4800

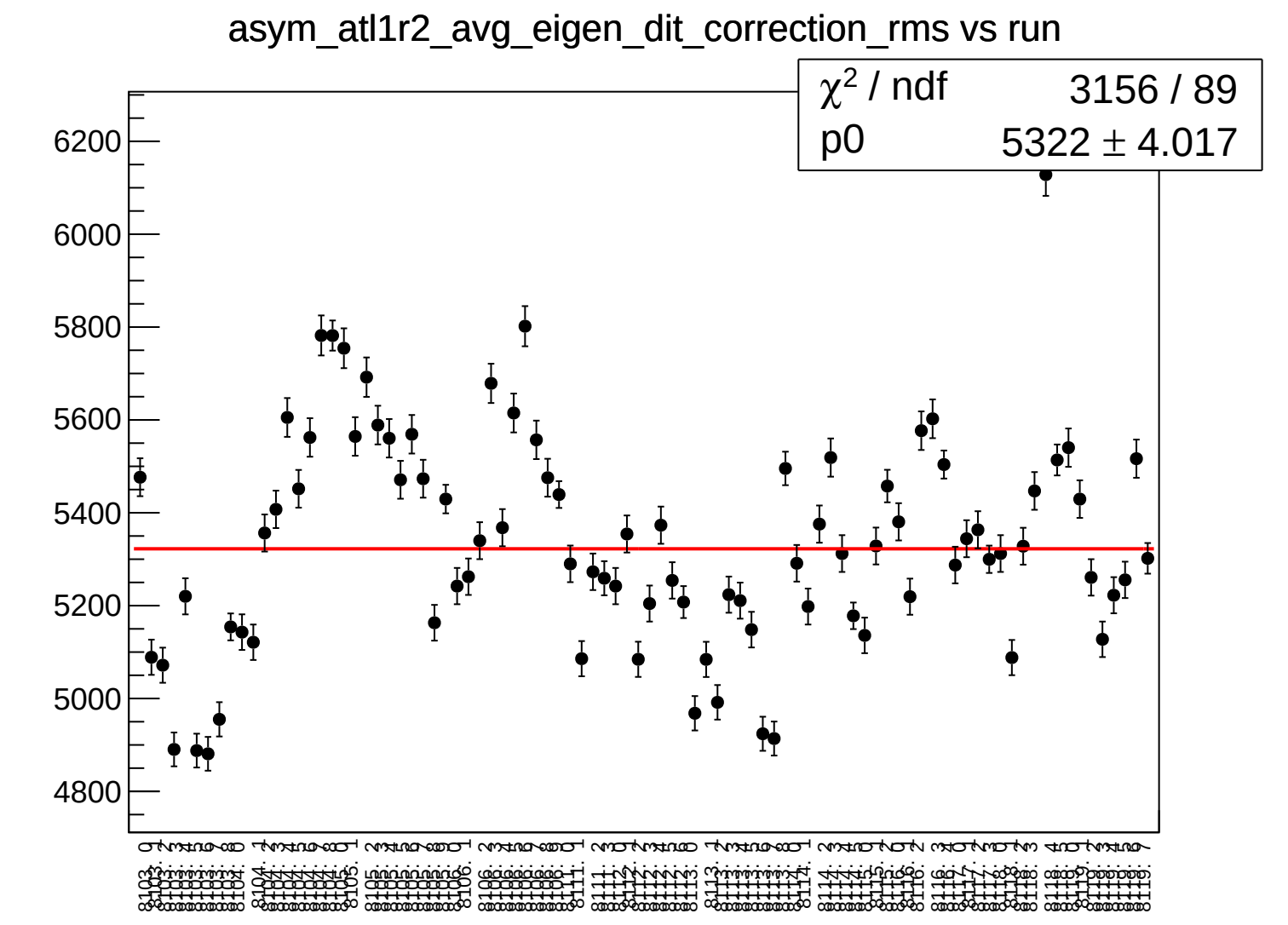

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 58.64 / 89
p0 4243 ± 1809
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 589.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

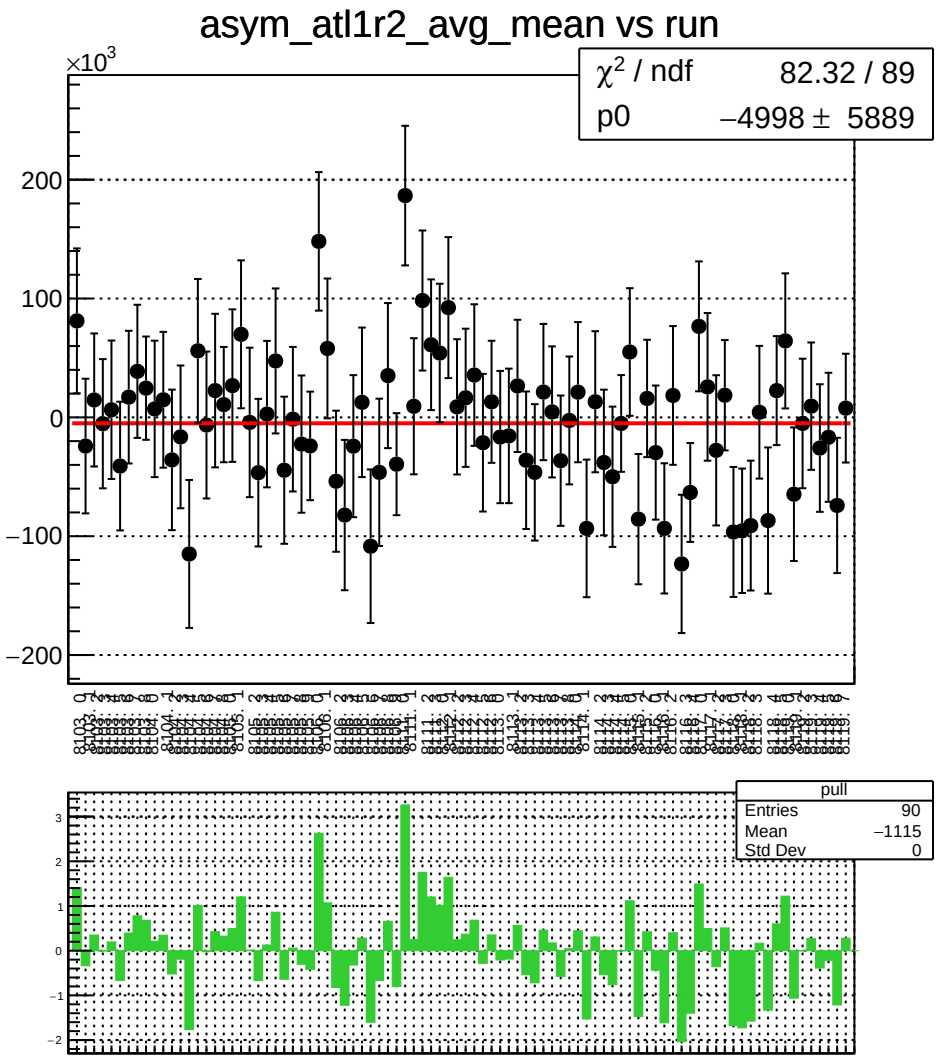

pull1D
Entries 90
Mean 0.006827
Std Dev 0.8072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

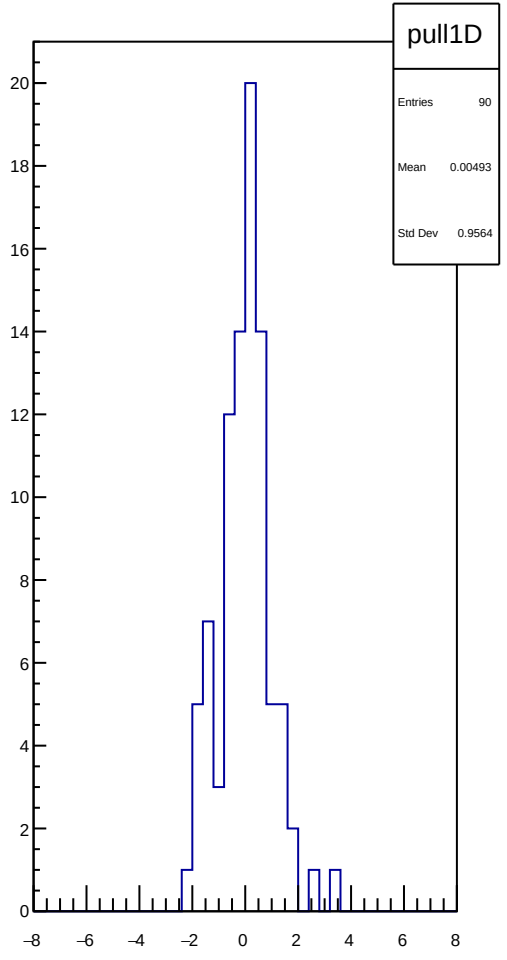

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 467.6 / 89
p0 1696 ± 1.279
1850
1800
1750
1700
1650

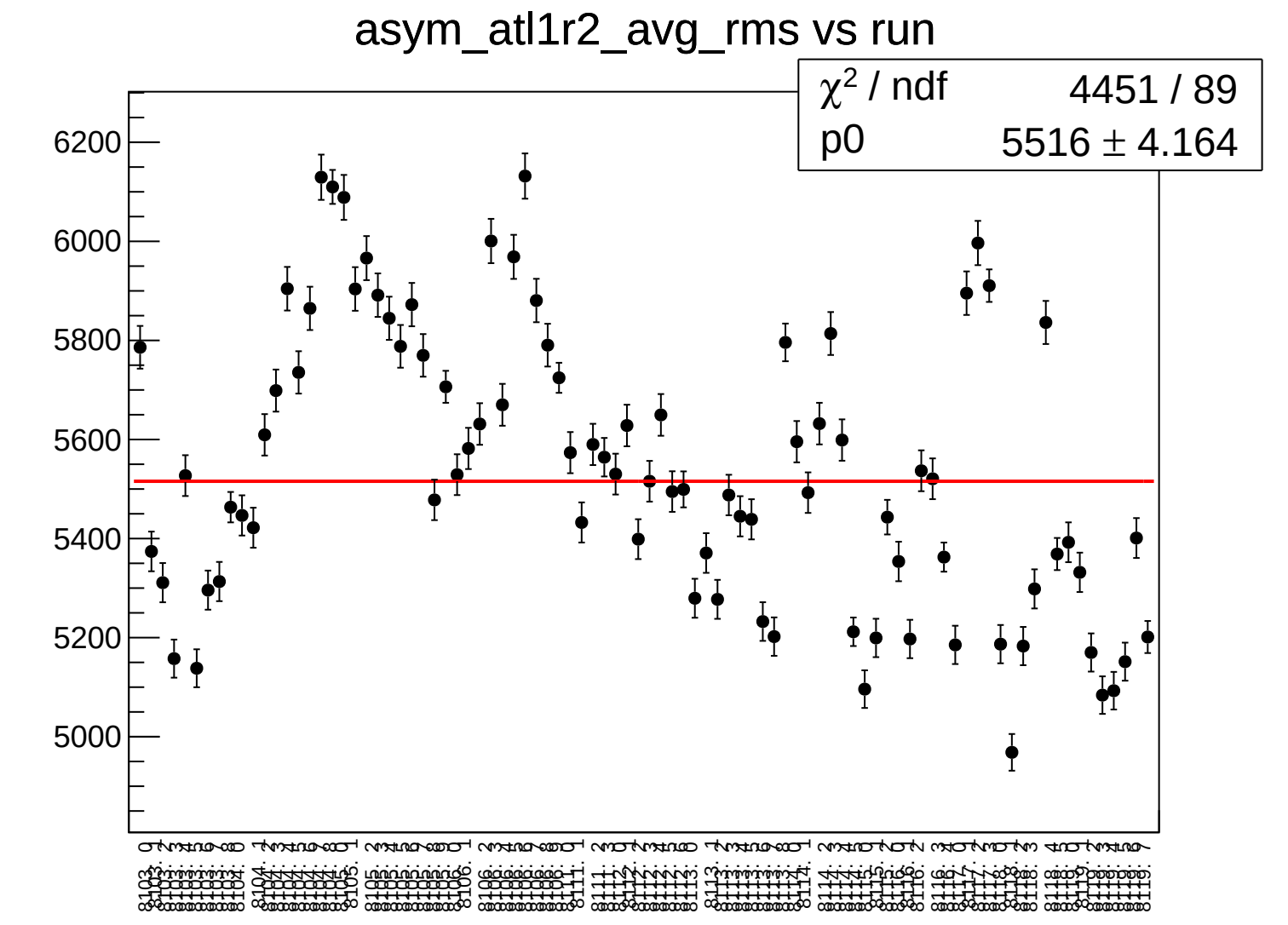

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.84 / 89
p0 8201 ± 5681
200
100
0
−100
−200
pull
Entries 90
Mean 1102
Std Dev 0
2
1
0
−1
−2
−3

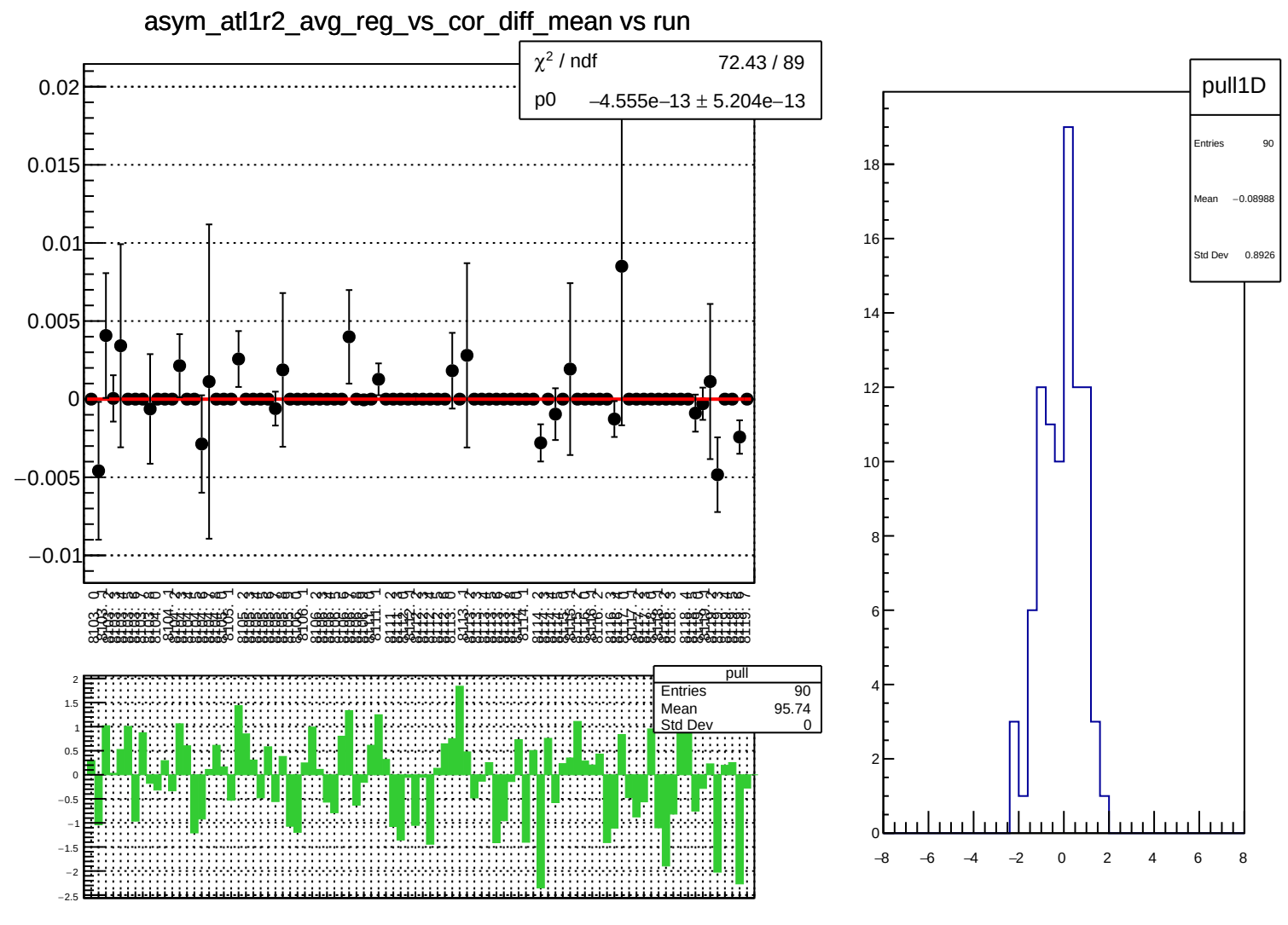

pull1D
Entries 90
Mean 0.006553
Std Dev 0.9991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

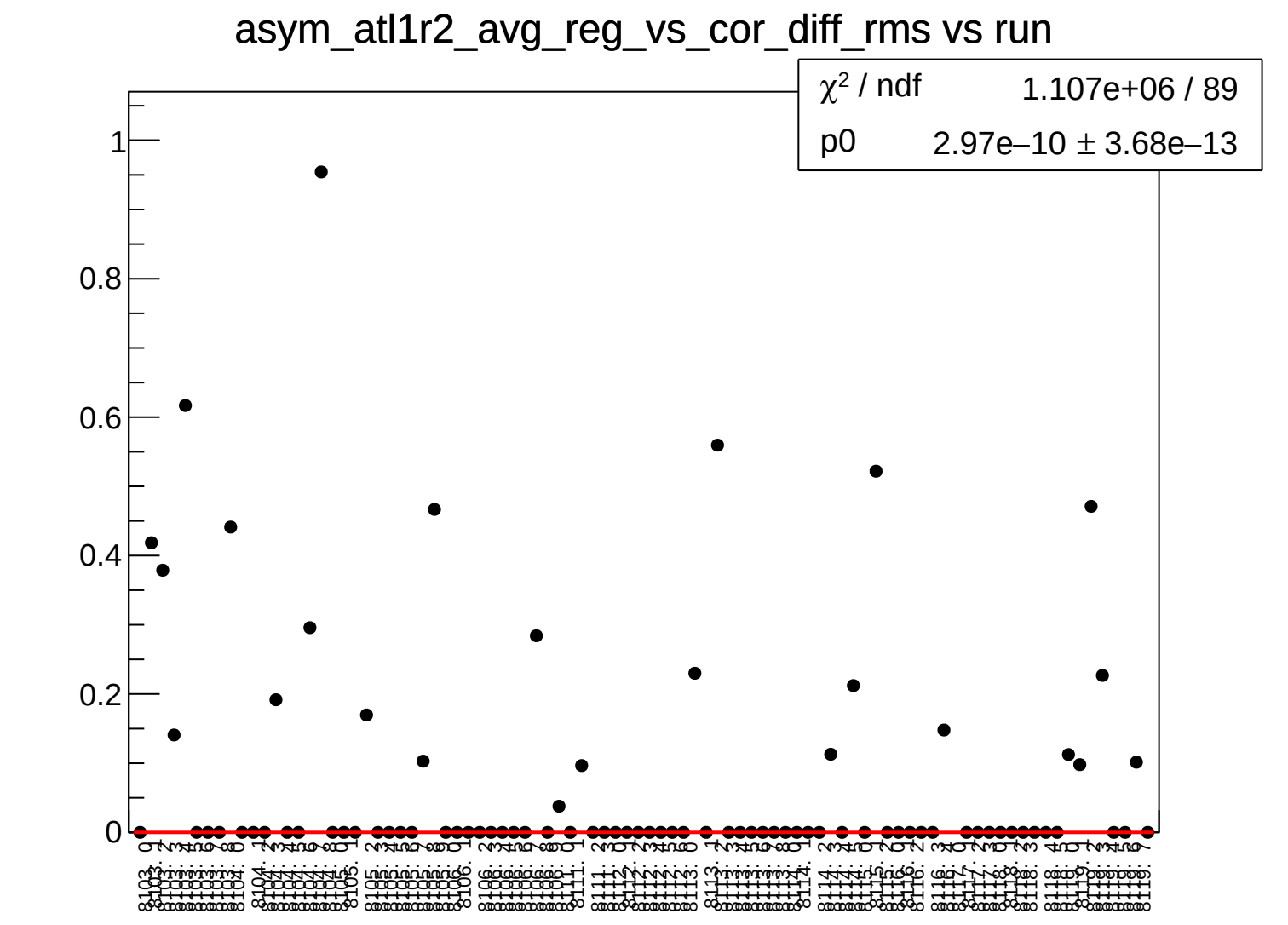

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3156 / 89
p0 5322 ± 4.017
6200
6000
5800
5600
5400
5200
5000
4800

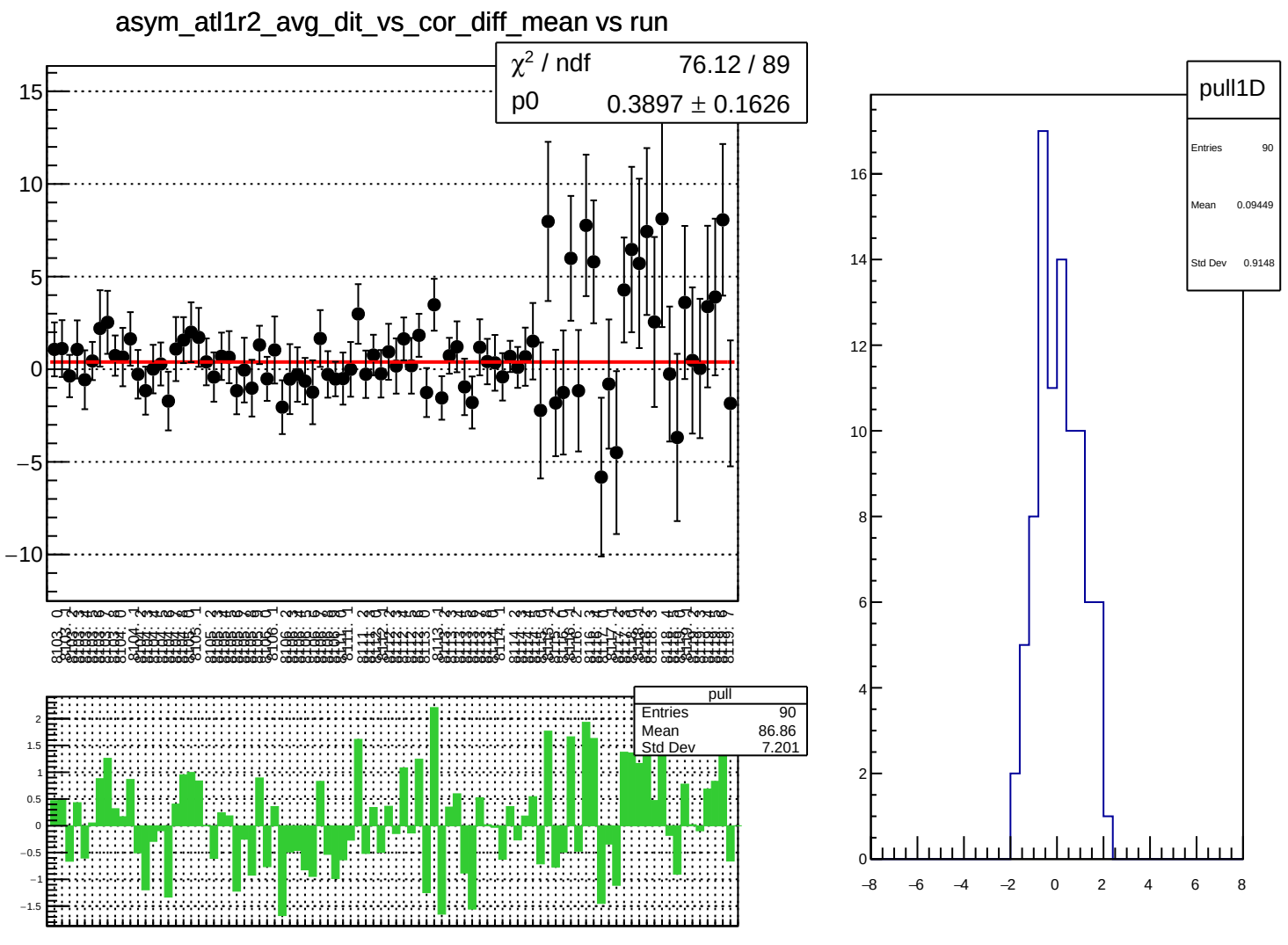

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 82.32 / 89
p0 −4998 ± 5889
200
100
0
−100
−200
pull
Entries 90
Mean −1115
Std Dev 0
3
2
1
0
−1
−2

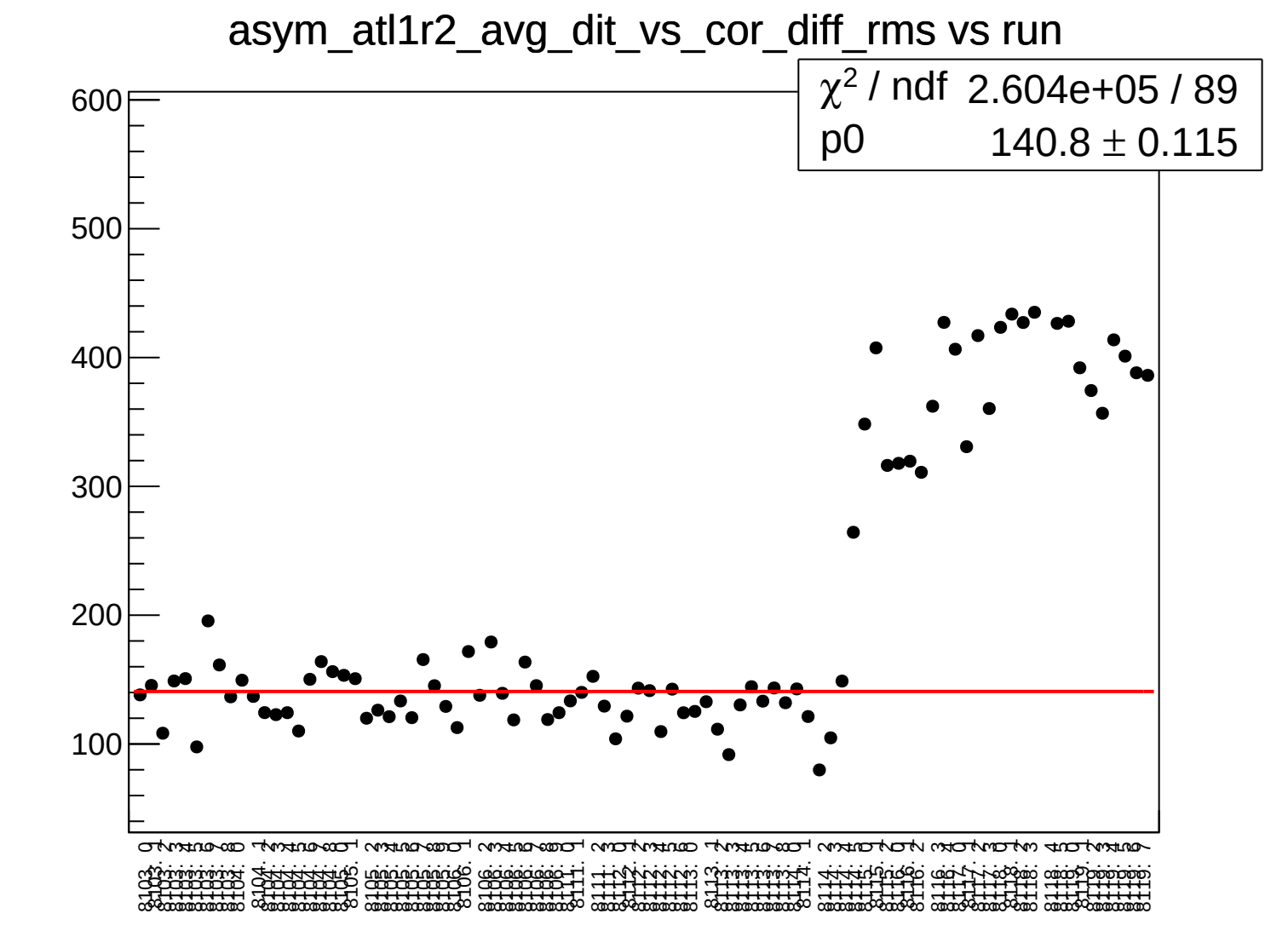

pull1D
Entries 90
Mean 0.00493
Std Dev 0.9564
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

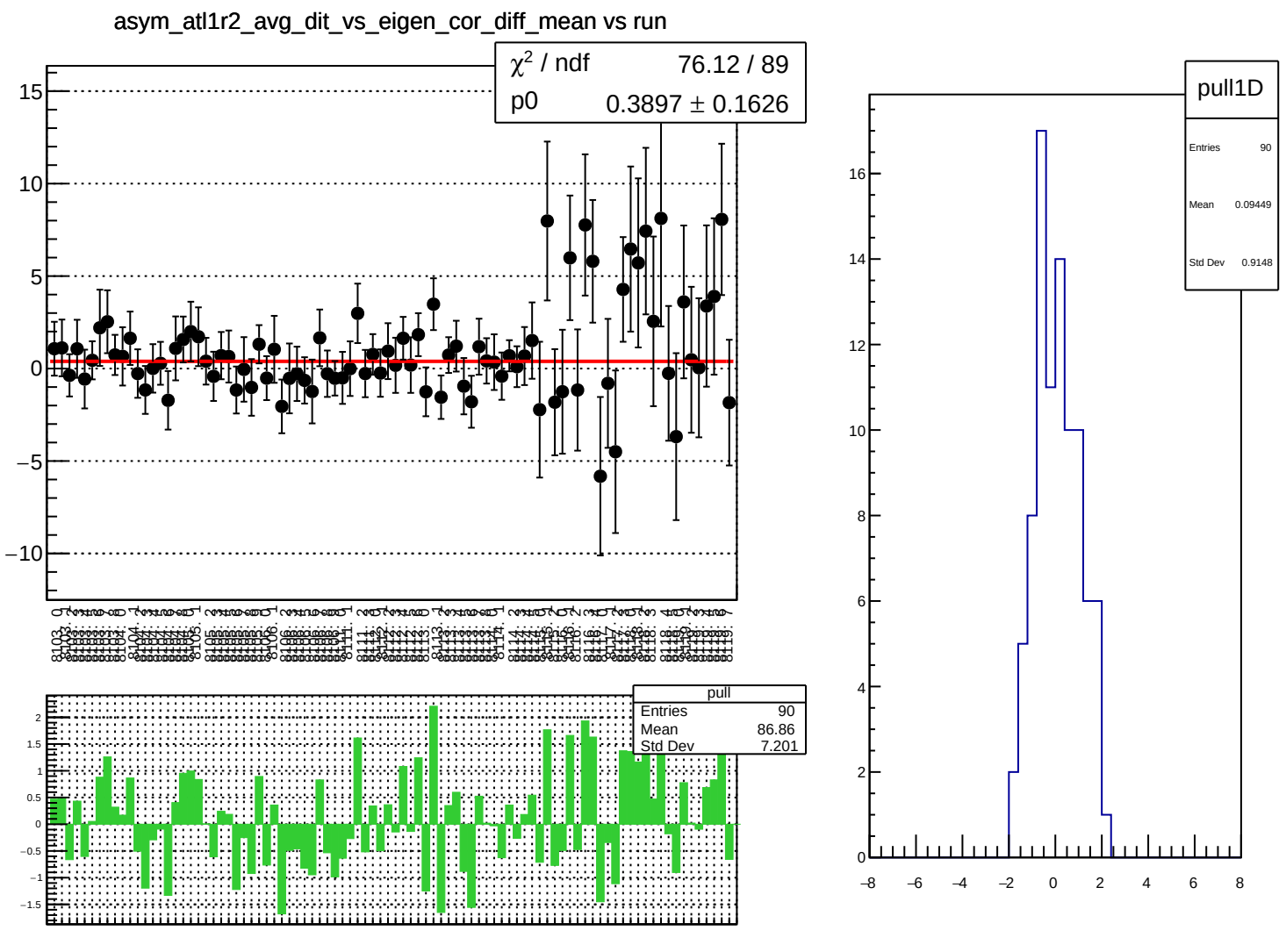

asym_atl1r2_avg_rms vs run
χ² / ndf 4451 / 89
p0 5516 ± 4.164
6200
6000
5800
5600
5400
5200
5000

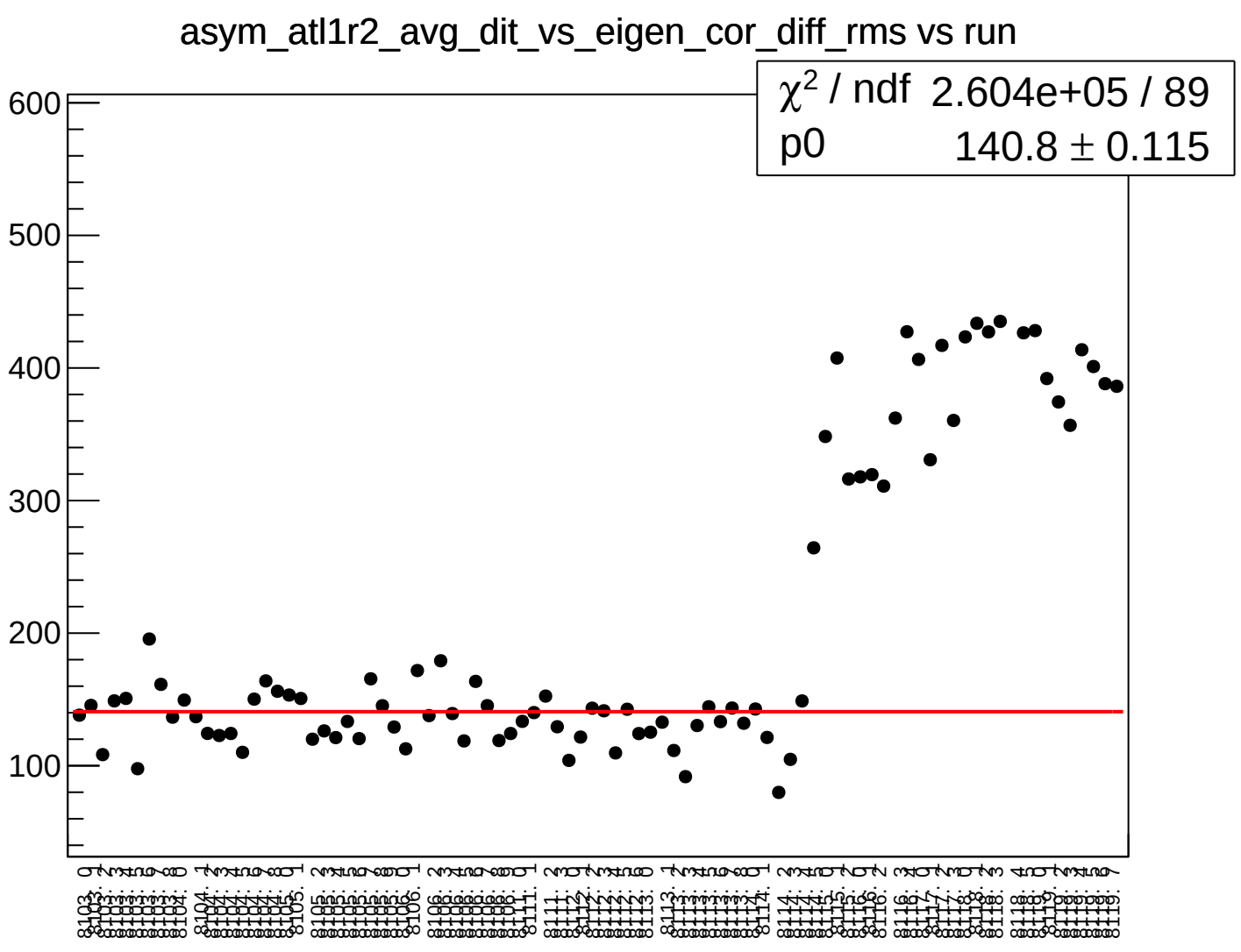

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.43 / 89
p0 −4.555e−13 ± 5.204e−13
pull
Entries 90
Mean 95.74
Std Dev 0
pull1D
Entries 90
Mean −0.08988
Std Dev 0.8926

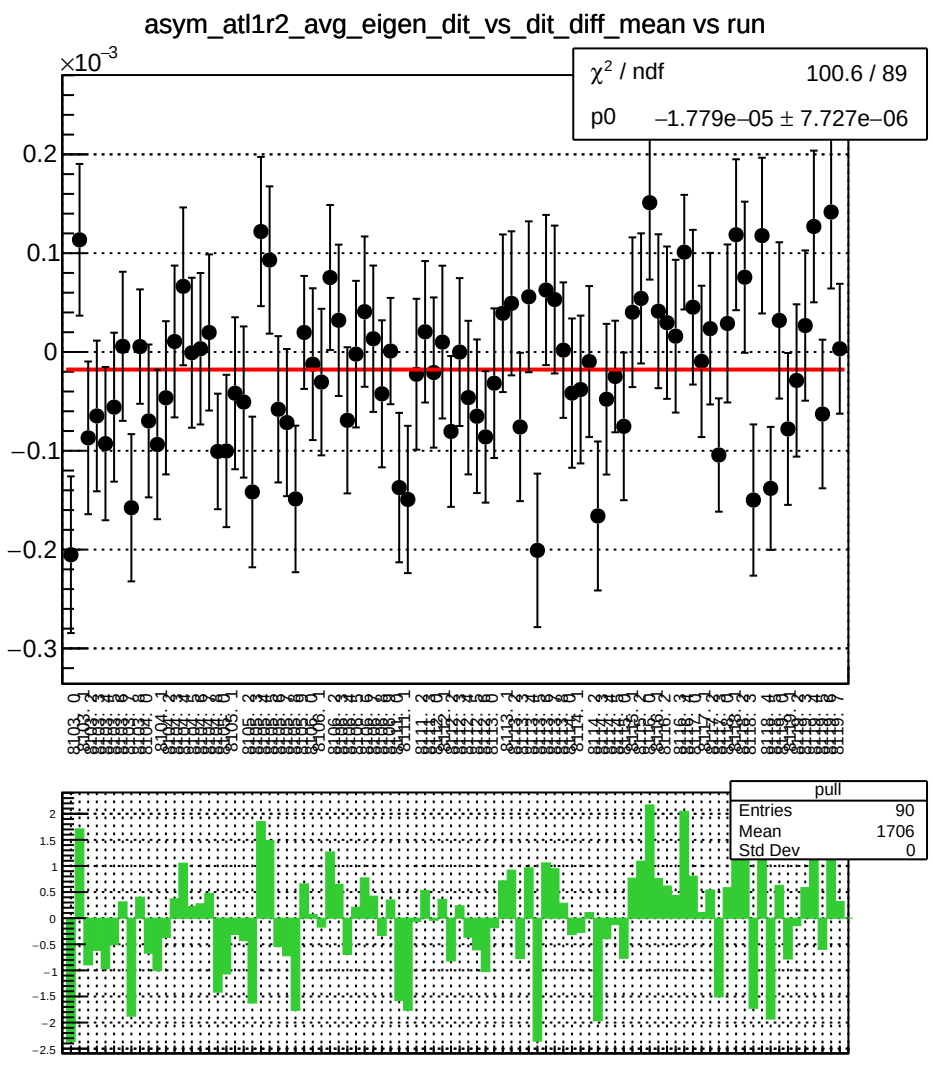

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 89
p0 2.97e−10 ± 3.68e−13
1
0.8
0.6
0.4
0.2
0

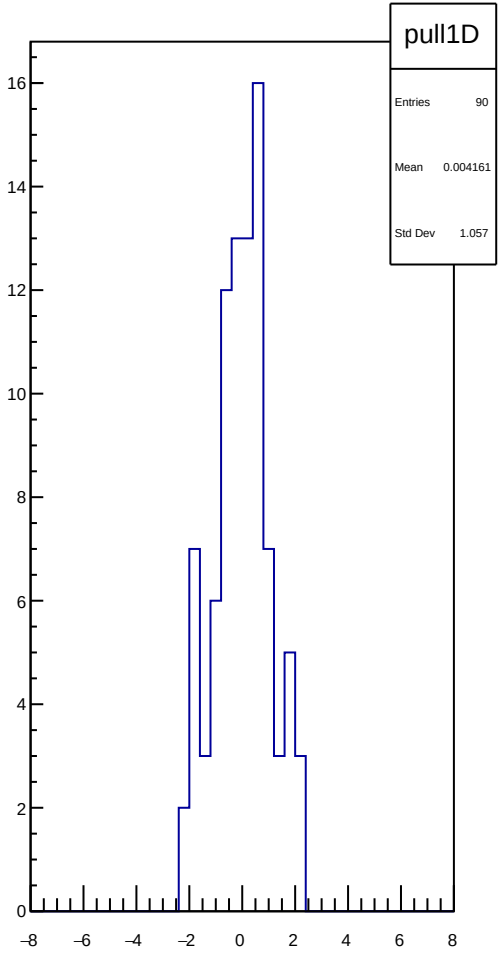

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.12 / 89
p0 0.3897 ± 0.1626
pull
Entries 90
Mean 86.86
Std Dev 7.201
pull1D
Entries 90
Mean 0.09449
Std Dev 0.9148

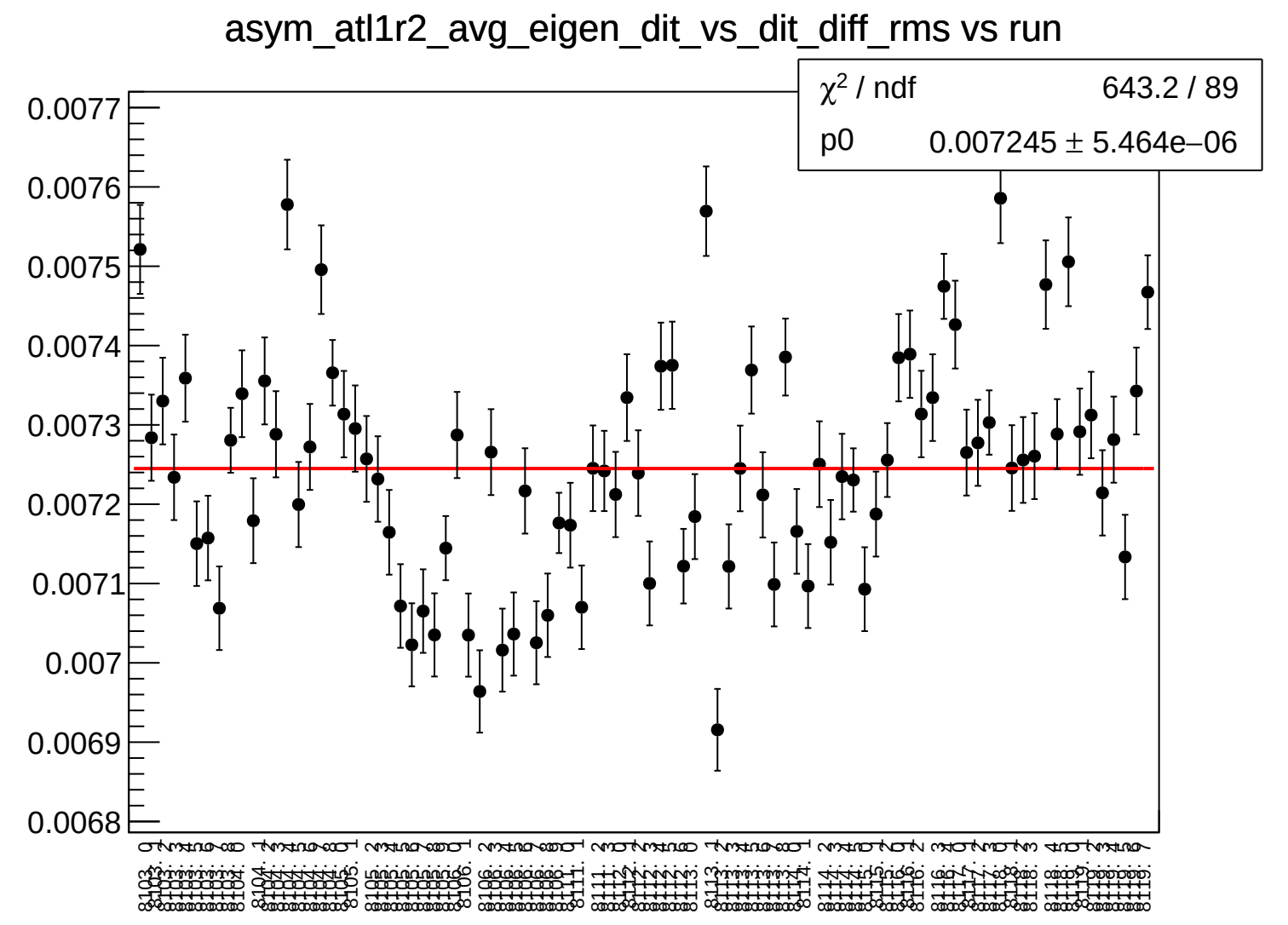

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 89
p0 140.8 ± 0.115
600
500
400
300
200
100

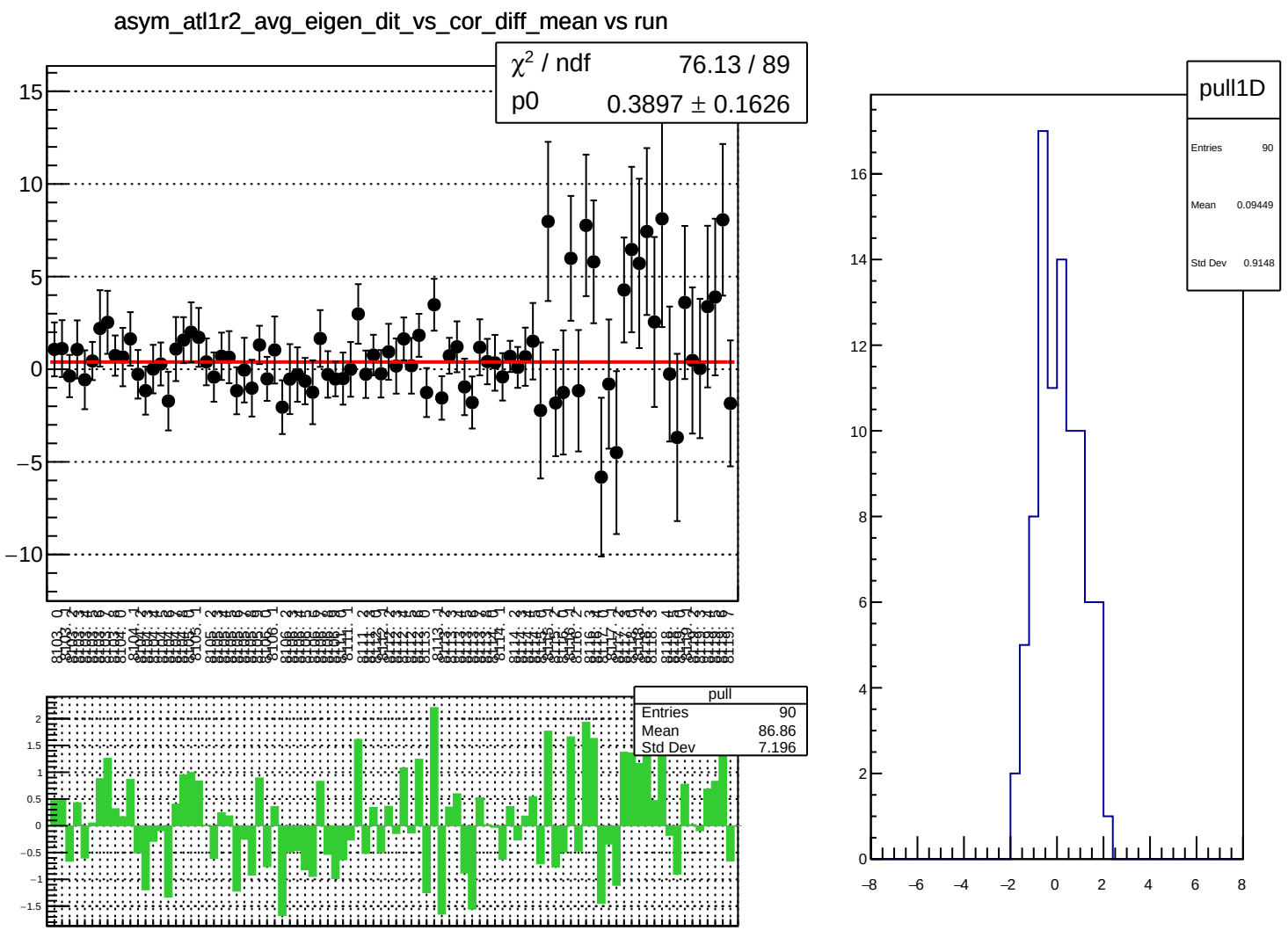

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.12 / 89
p0 0.3897 ± 0.1626
pull
Entries 90
Mean 86.86
Std Dev 7.201
pull1D
Entries 90
Mean 0.09449
Std Dev 0.9148

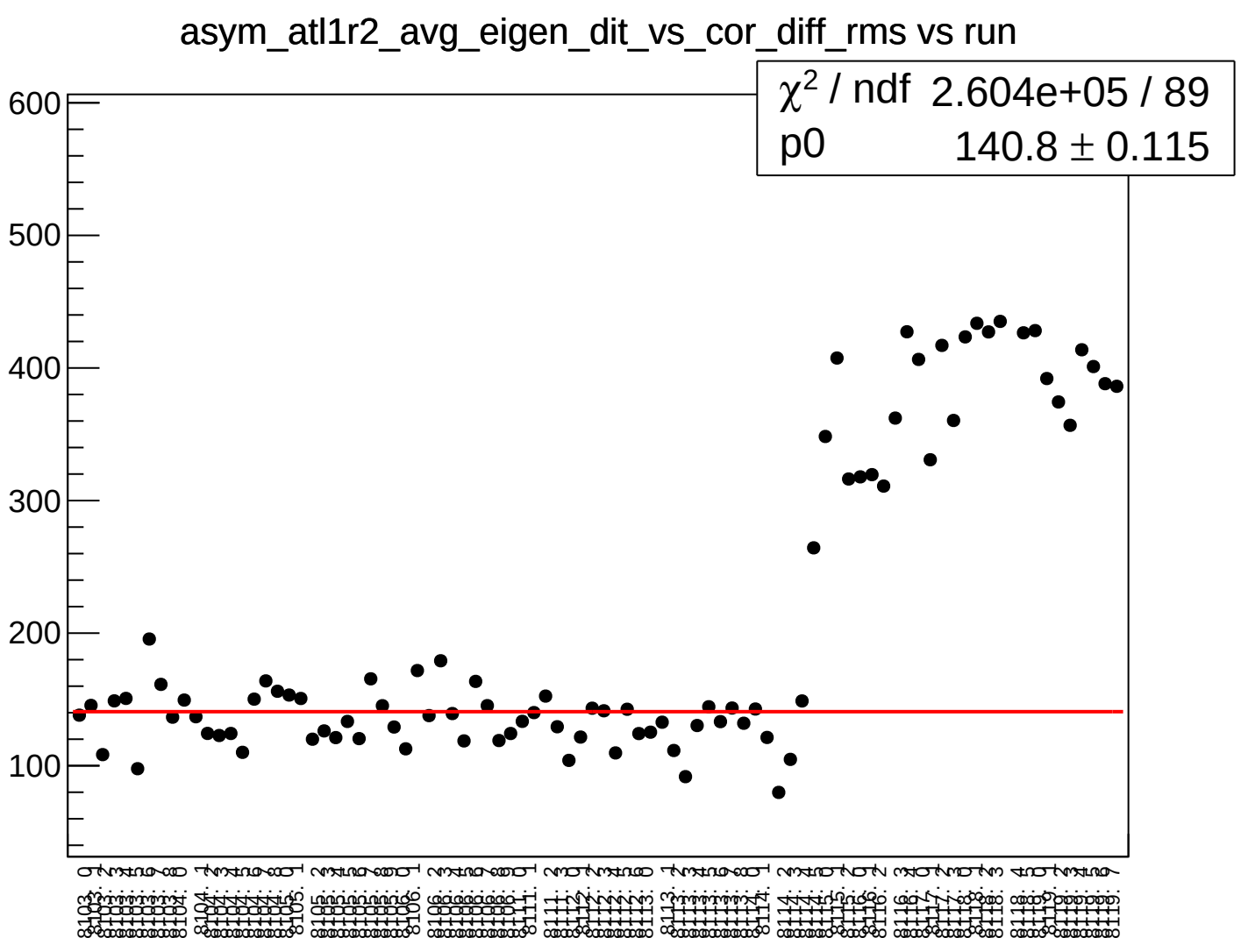

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.604e+05 / 89
p0 140.8 ± 0.115
600
500
400
300
200
100

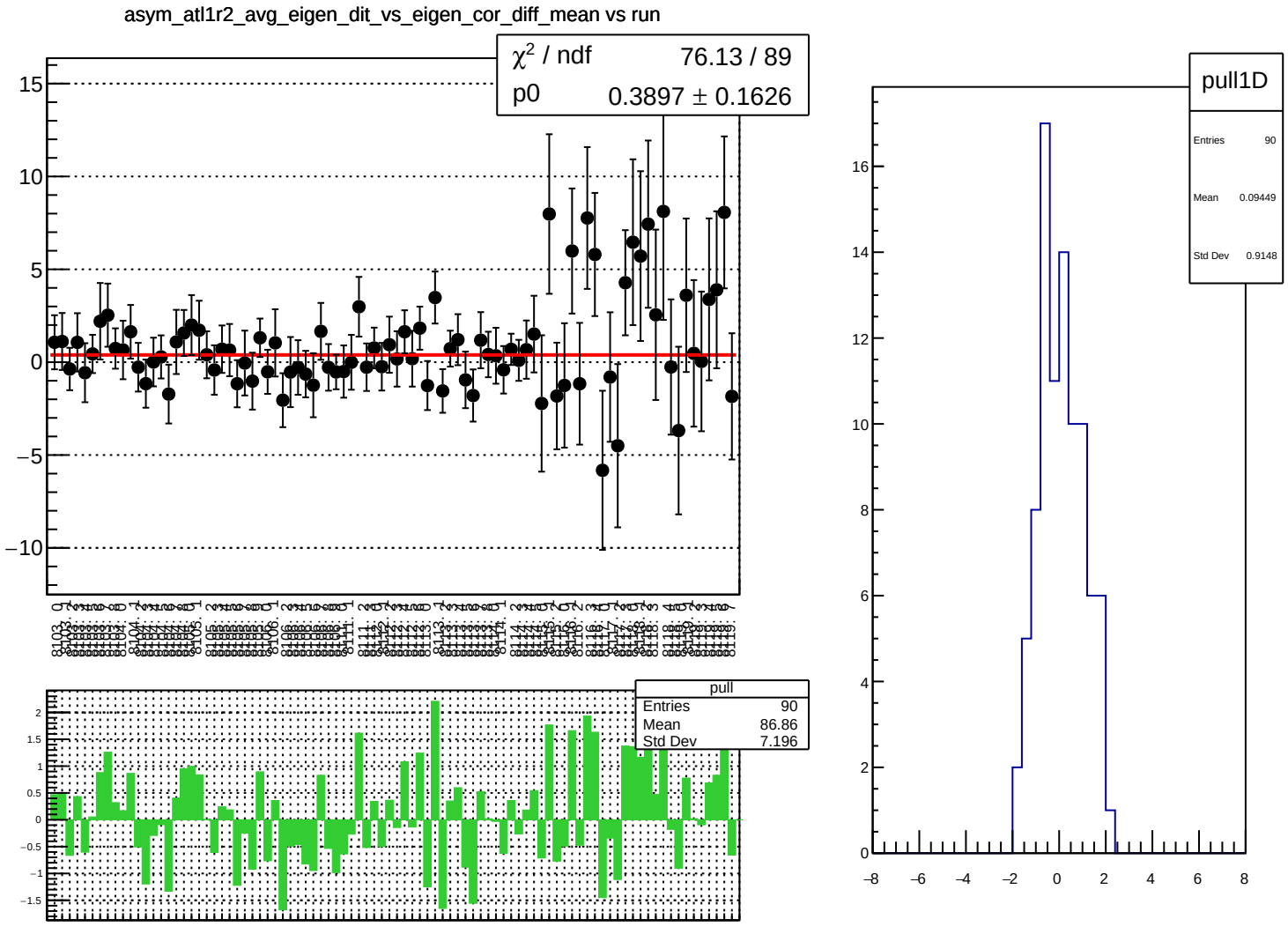

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.6 / 89
p0 −1.779e−05 ± 7.727e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 90
Mean 1706
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

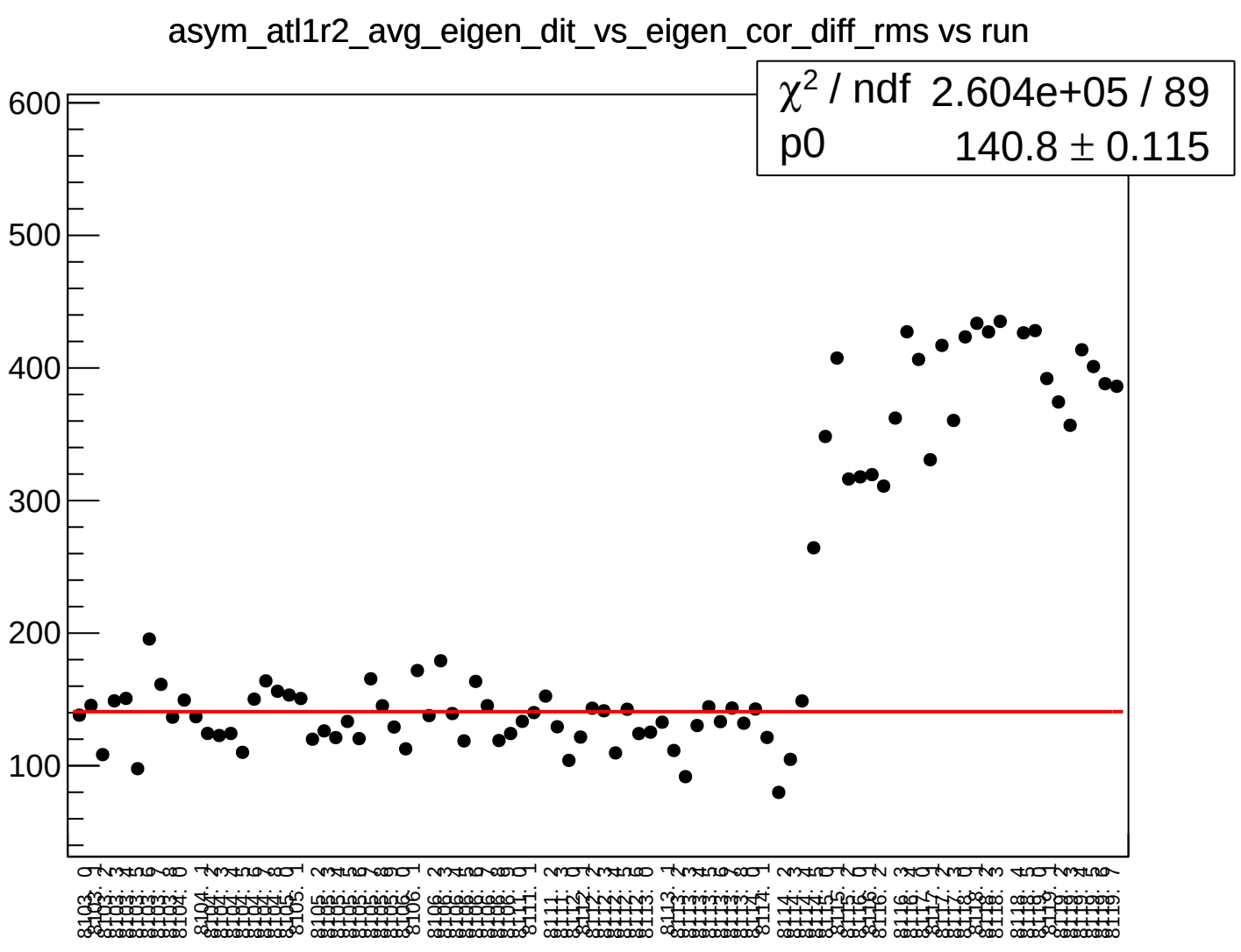

pull1D
Entries 90
Mean 0.004161
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

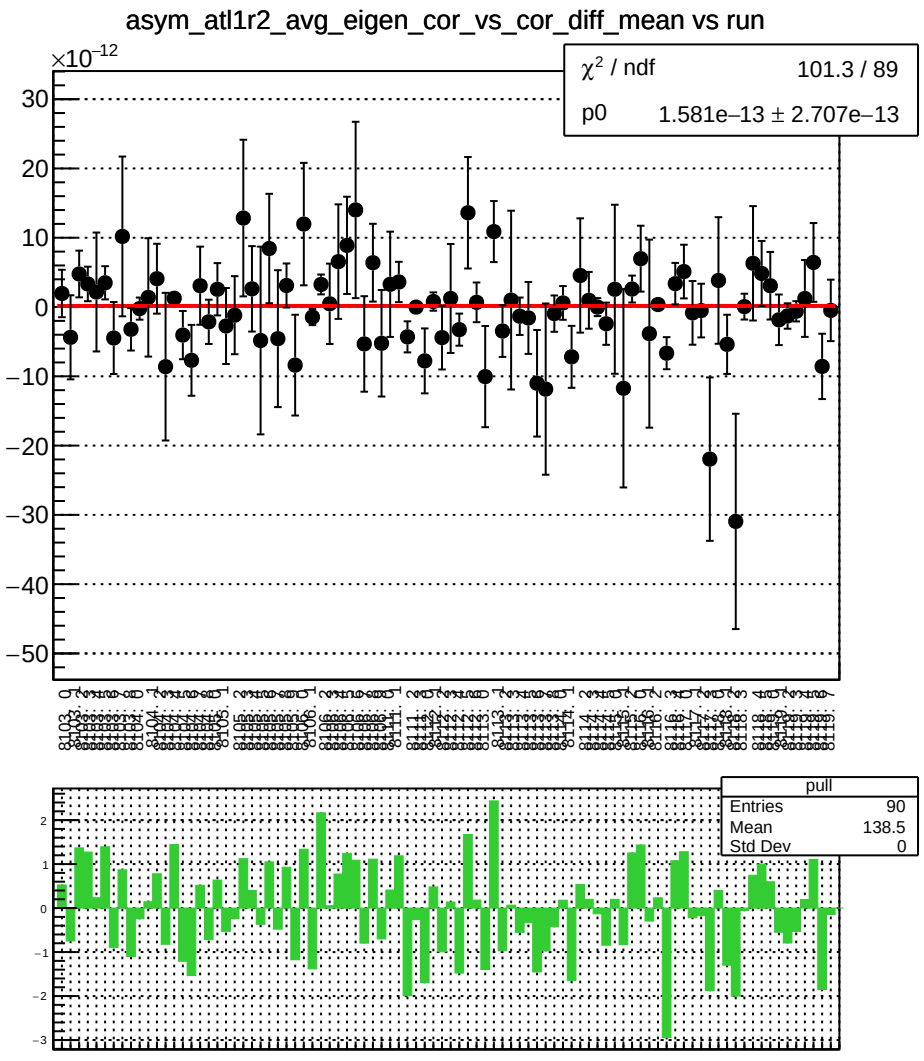

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 643.2 / 89
p0 0.007245 ± 5.464e−06
0.0077
0.0076
0.0075
0.0074
0.0073
0.0072
0.0071
0.007
0.0069
0.0068

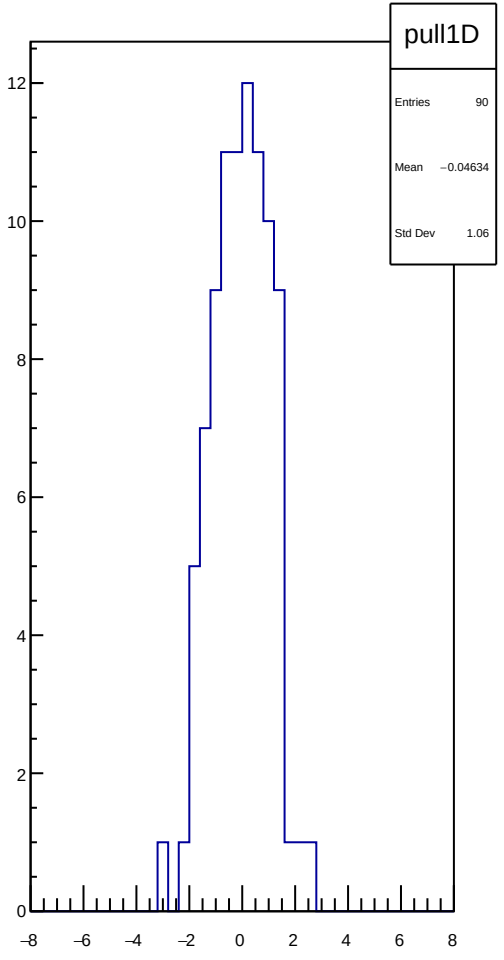

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.13 / 89
p0 0.3897 ± 0.1626
pull
Entries 90
Mean 86.86
Std Dev 7.196
pull1D
Entries 90
Mean 0.09449
Std Dev 0.9148

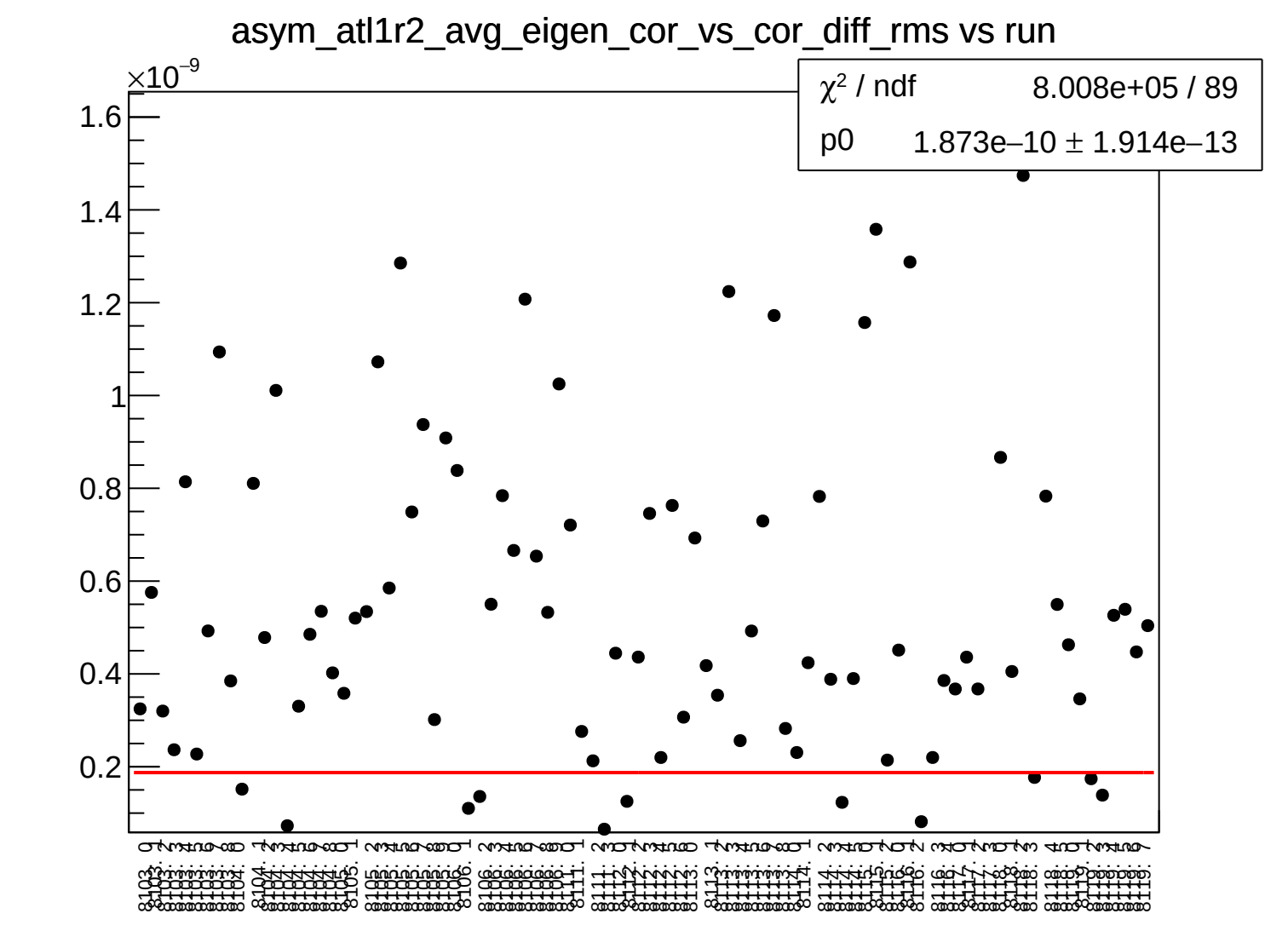

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 89
p0 140.8 ± 0.115
600
500
400
300
200
100

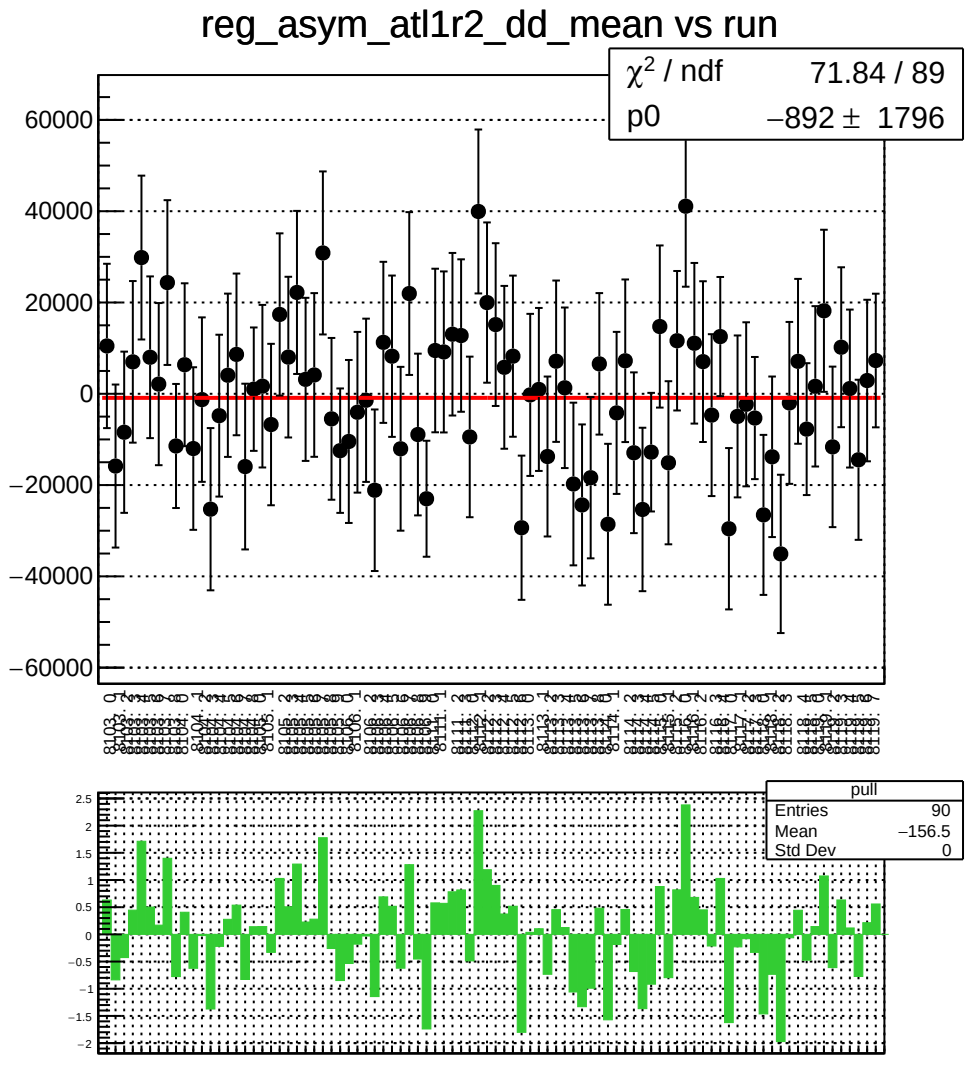

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.13 / 89
p0 0.3897 ± 0.1626
pull
Entries 90
Mean 86.86
Std Dev 7.196
pull1D
Entries 90
Mean 0.09449
Std Dev 0.9148

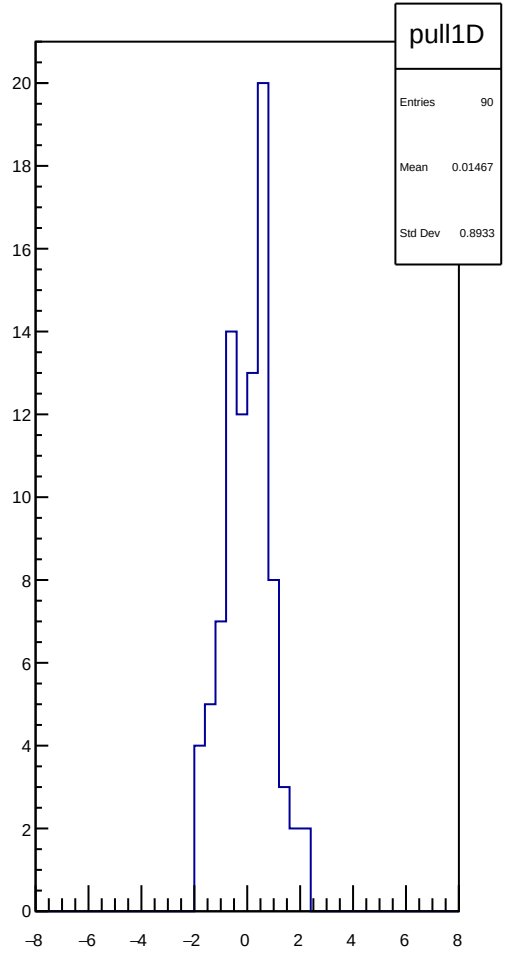

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 89
p0 140.8 ± 0.115
600
500
400
300
200
100

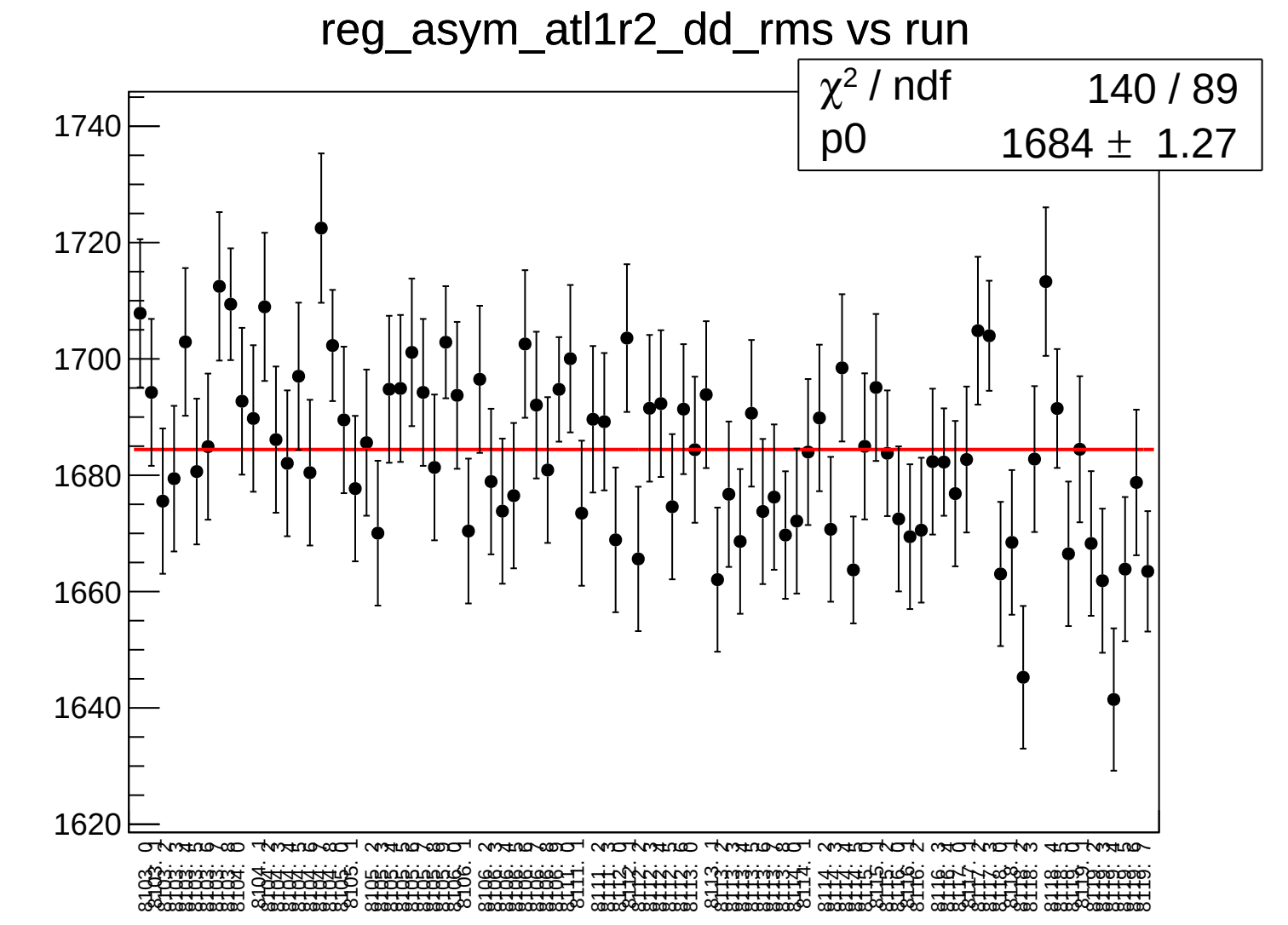

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 101.3 / 89
p0 1.581e−13 ± 2.707e−13
pull
Entries 90
Mean 138.5
Std Dev 0

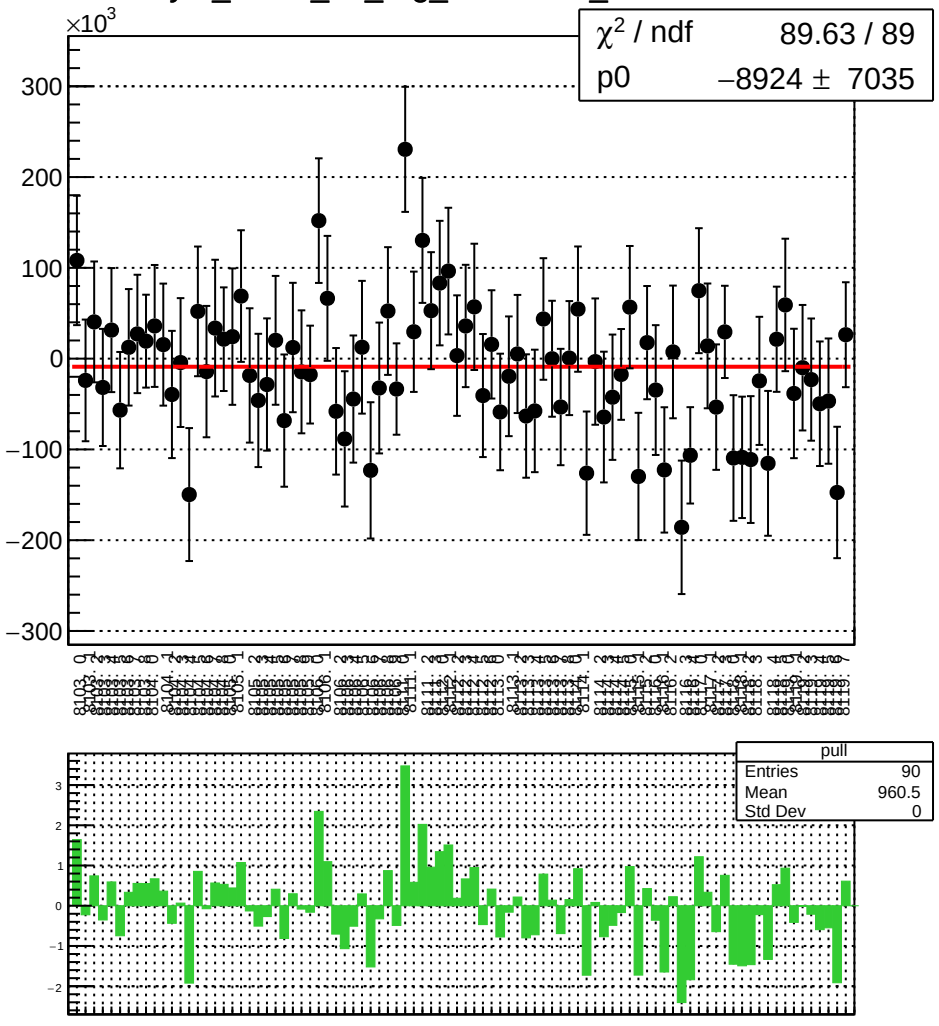

pull1D
Entries 90
Mean −0.04634
Std Dev 1.06

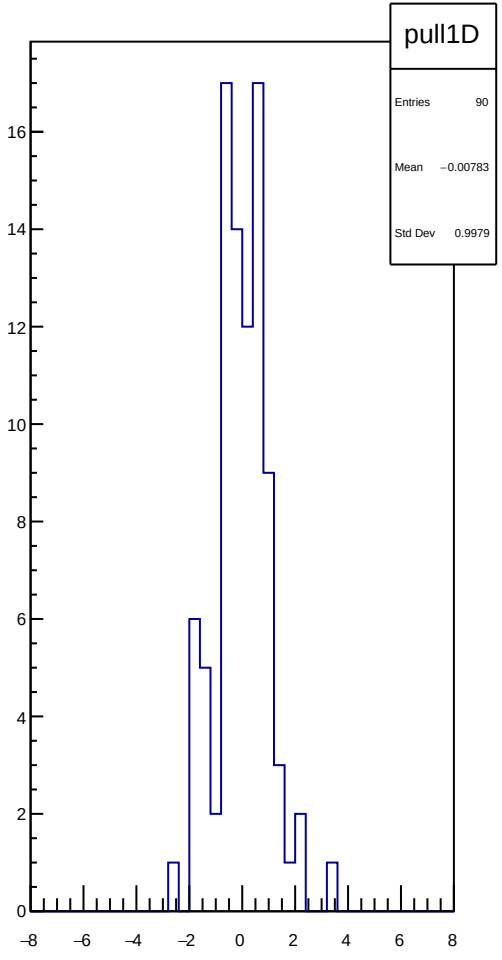

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.008e+05 / 89
p0 1.873e−10 ± 1.914e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

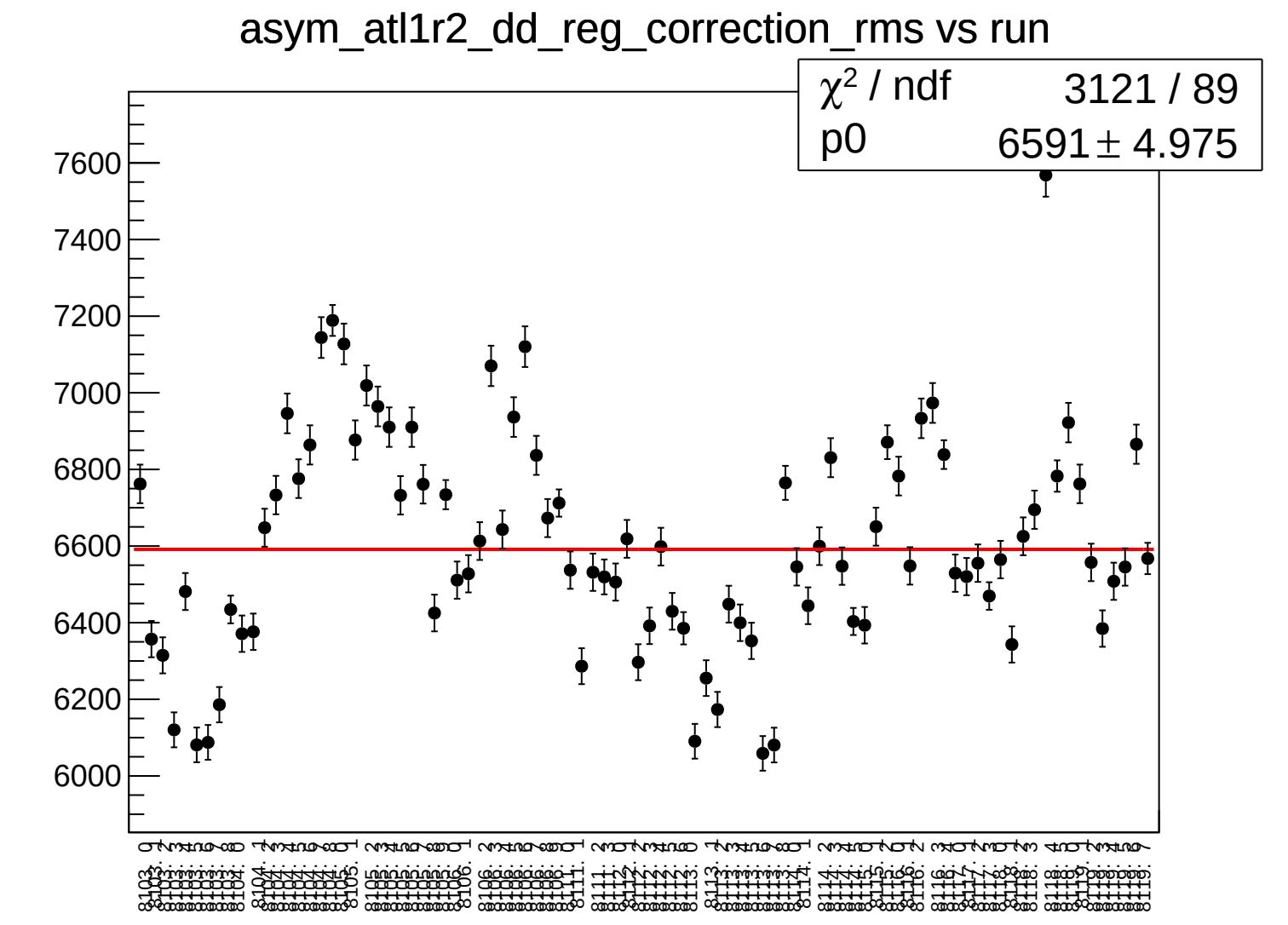

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 71.84 / 89
p0 −892 ± 1796
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −156.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

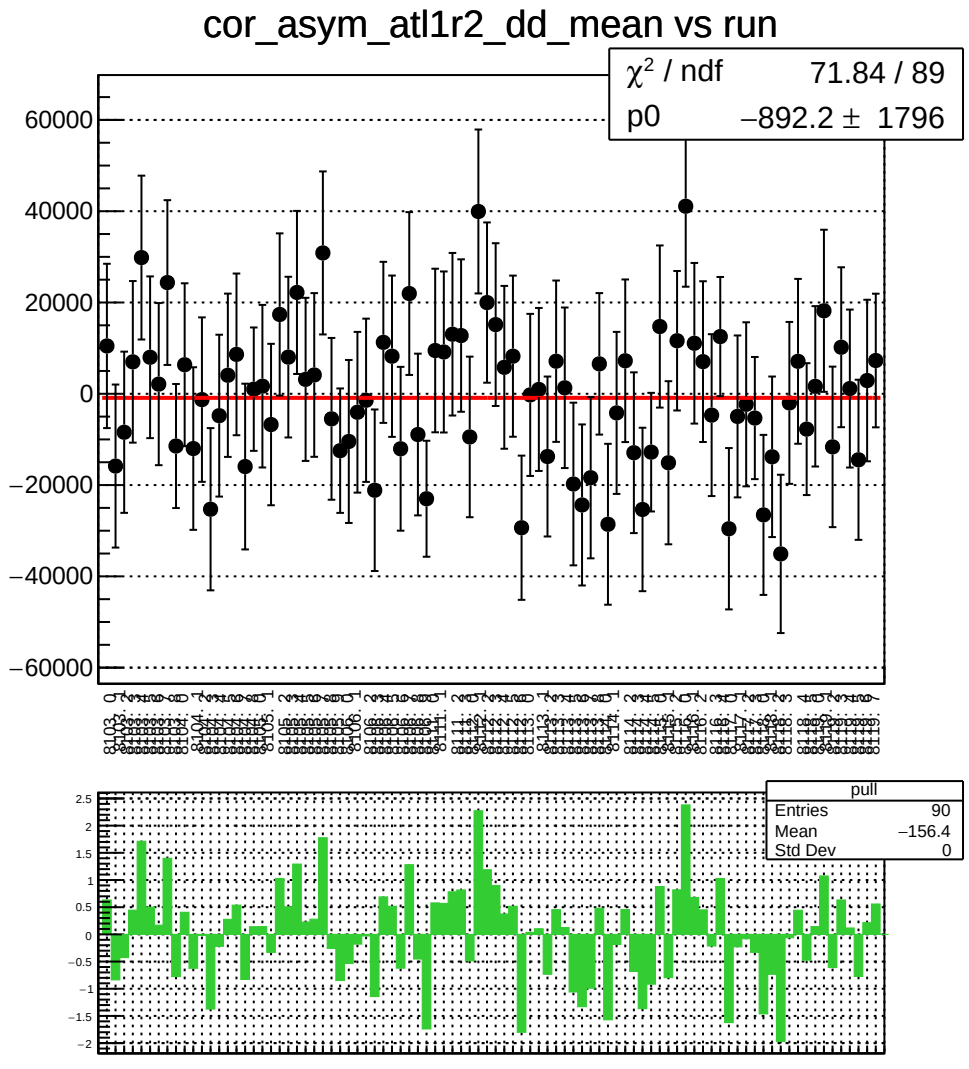

pull1D
Entries 90
Mean 0.01467
Std Dev 0.8933
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

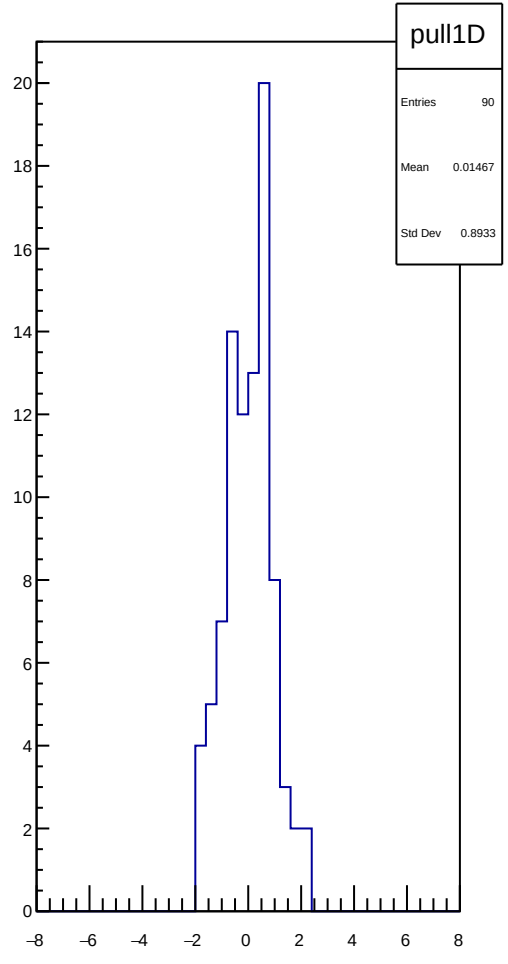

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 140 / 89
p0 1684 ± 1.27
1740
1720
1700
1680
1660
1640
1620

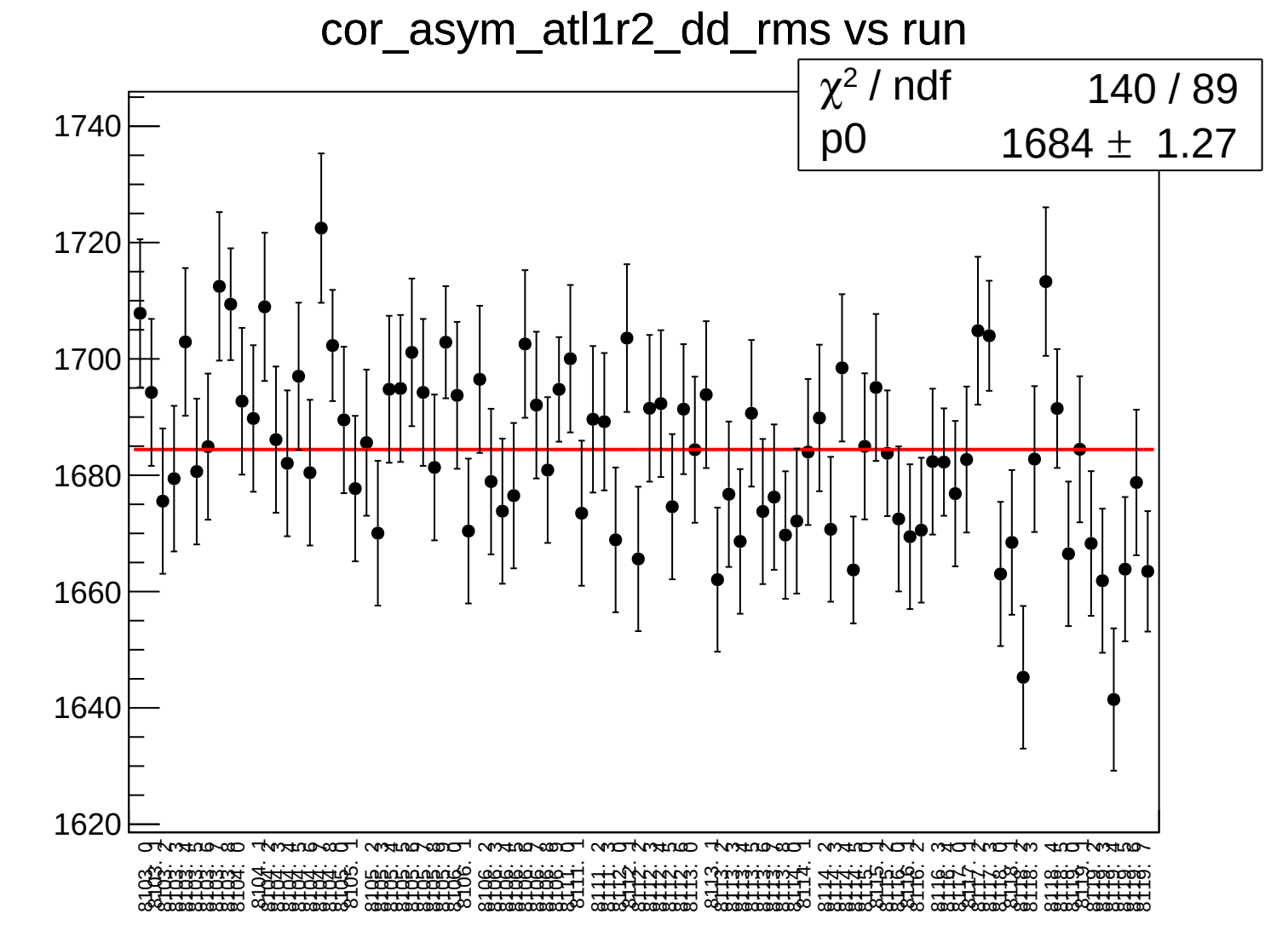

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.63 / 89
p0 −8924 ± 7035
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean 960.5
Std Dev 0
3
2
1
0
−1
−2

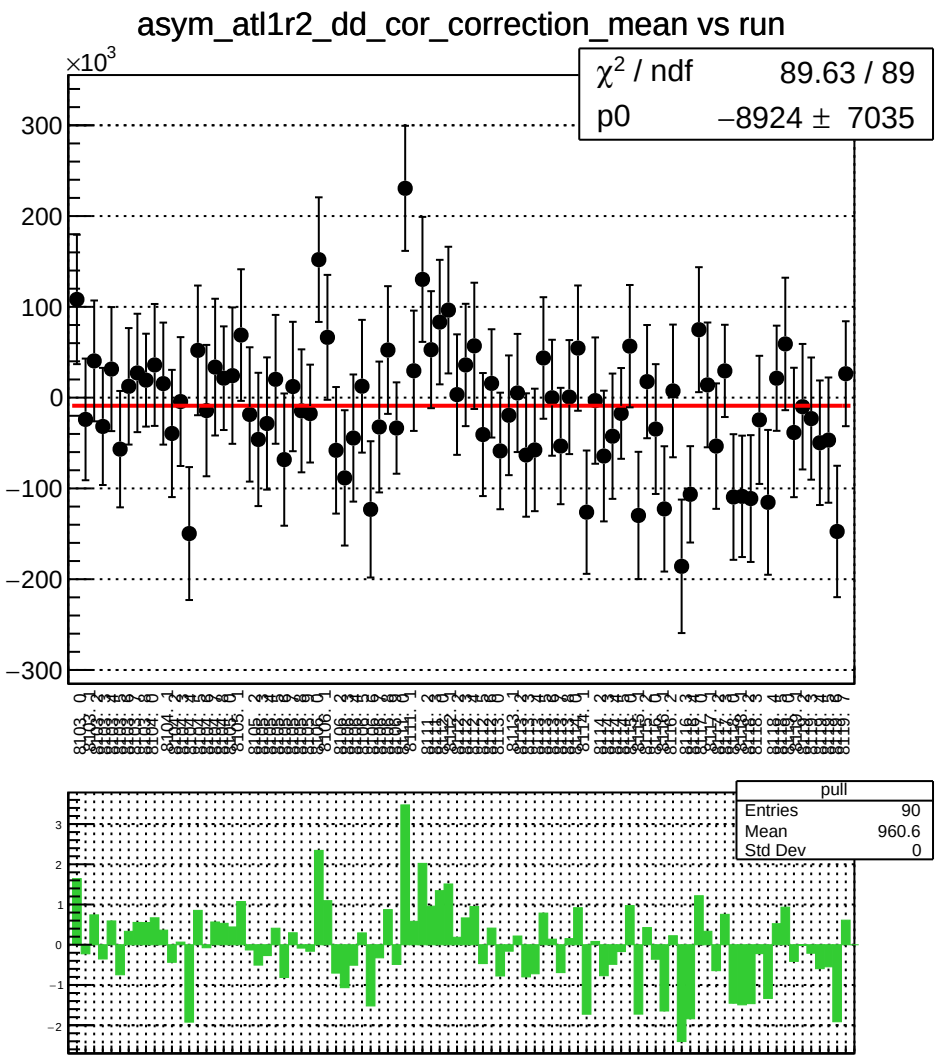

pull1D
Entries 90
Mean −0.00783
Std Dev 0.9979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

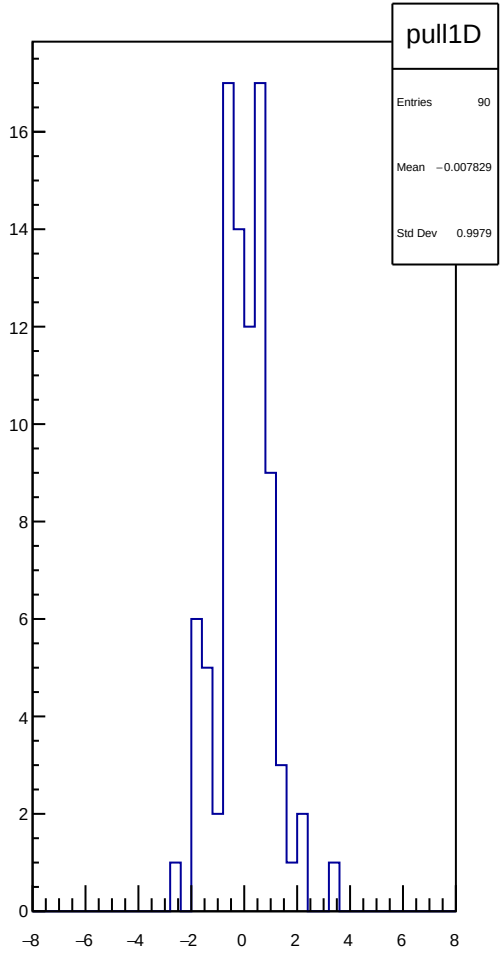

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3121 / 89
p0 6591 ± 4.975
7600
7400
7200
7000
6800
6600
6400
6200
6000

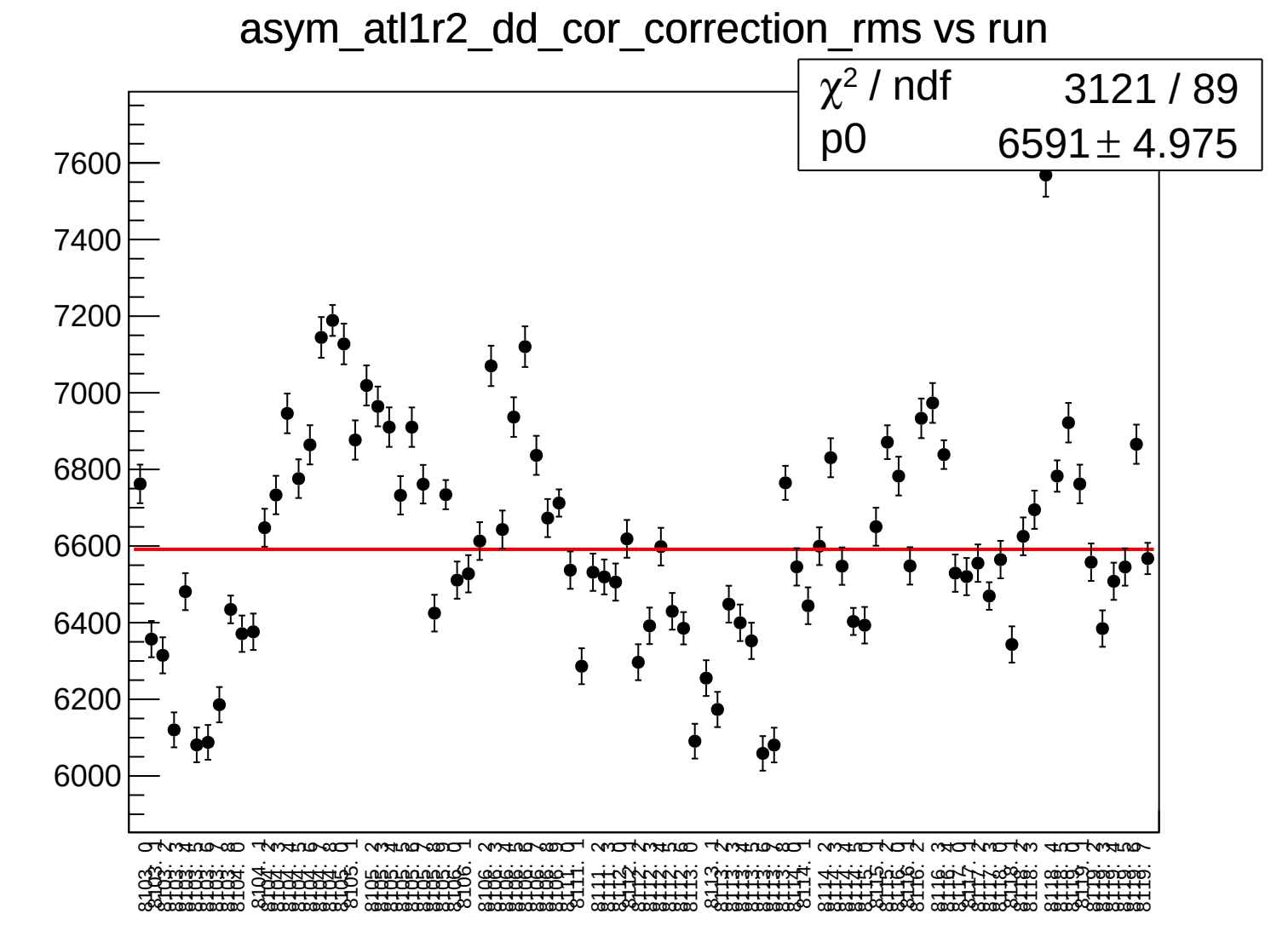

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 71.84 / 89
p0 −892.2 ± 1796
pull
Entries 90
Mean −156.4
Std Dev 0

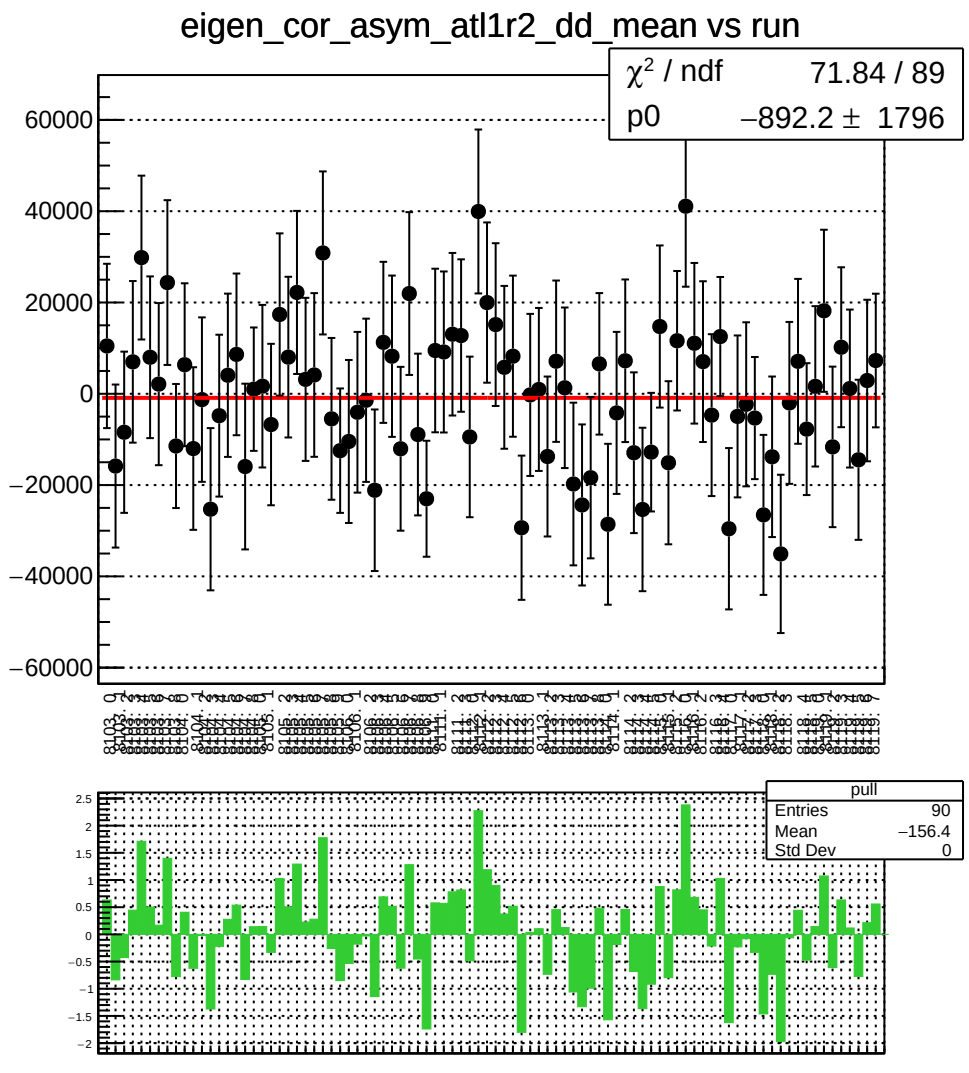

pull1D
Entries 90
Mean 0.01467
Std Dev 0.8933

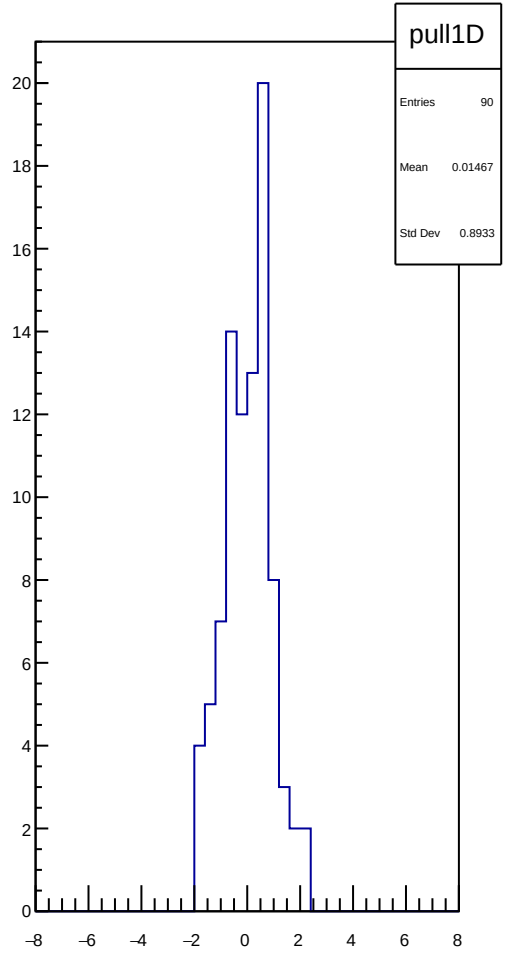

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 140 / 89
p0 1684 ± 1.27
1740
1720
1700
1680
1660
1640
1620

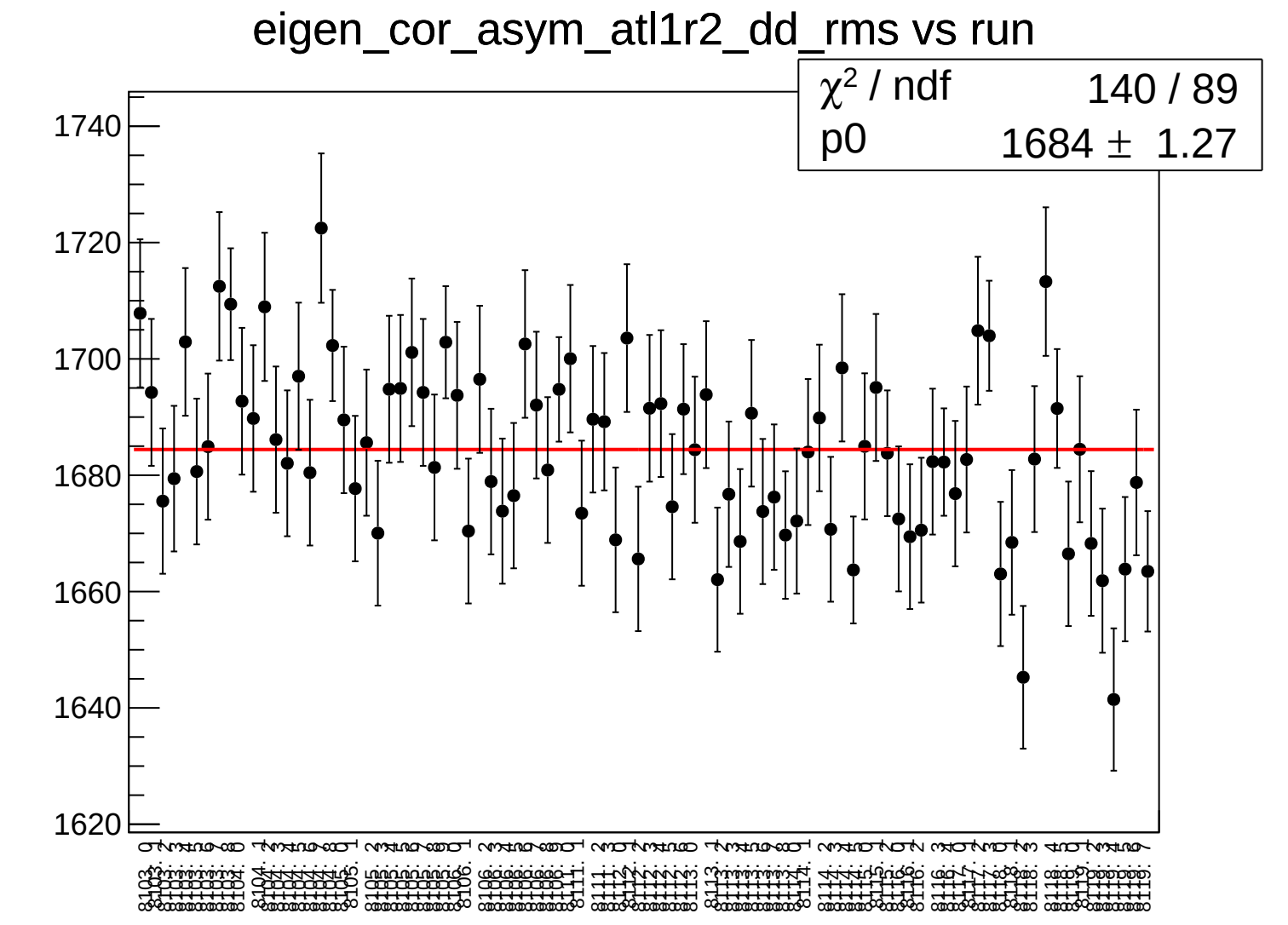

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.63 / 89
p0 −8924 ± 7035
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean 960.6
Std Dev 0
3
2
1
0
−1
−2

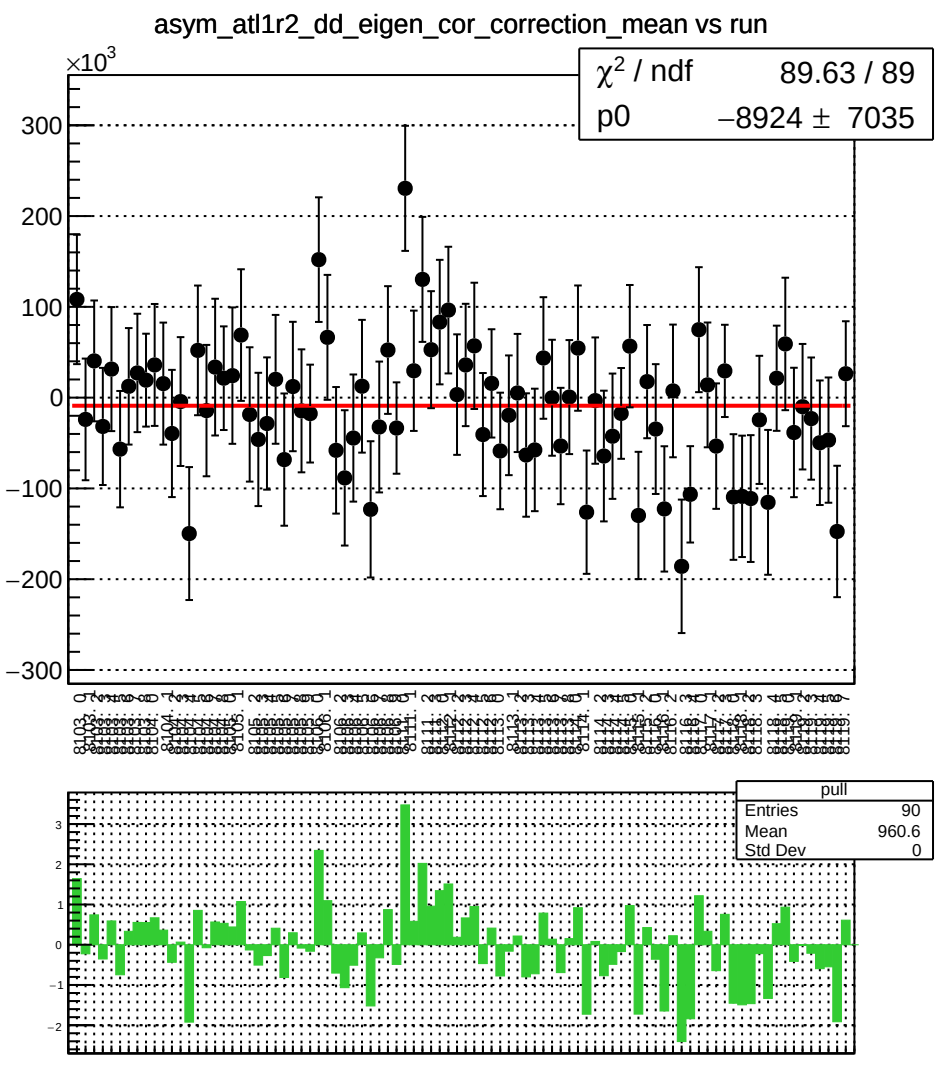

pull1D
Entries 90
Mean −0.007829
Std Dev 0.9979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

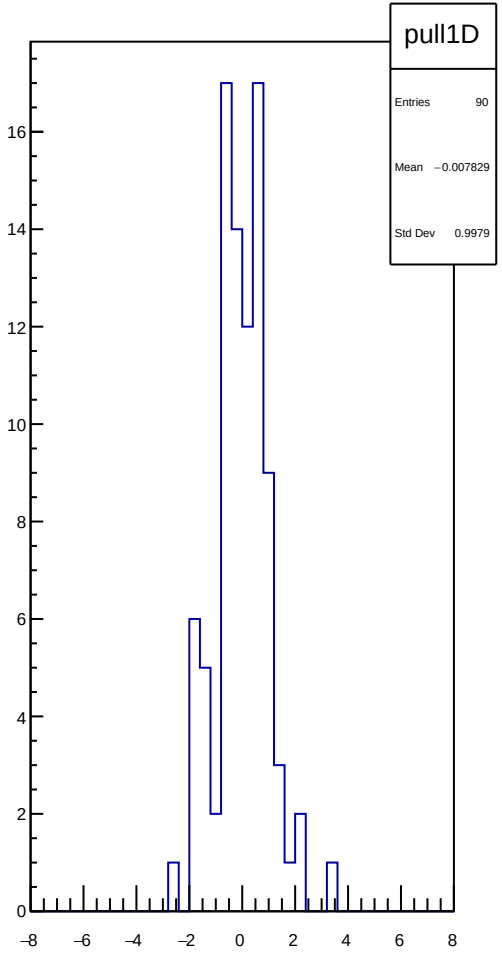

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3121 / 89
p0 6591 ± 4.975
7600
7400
7200
7000
6800
6600
6400
6200
6000

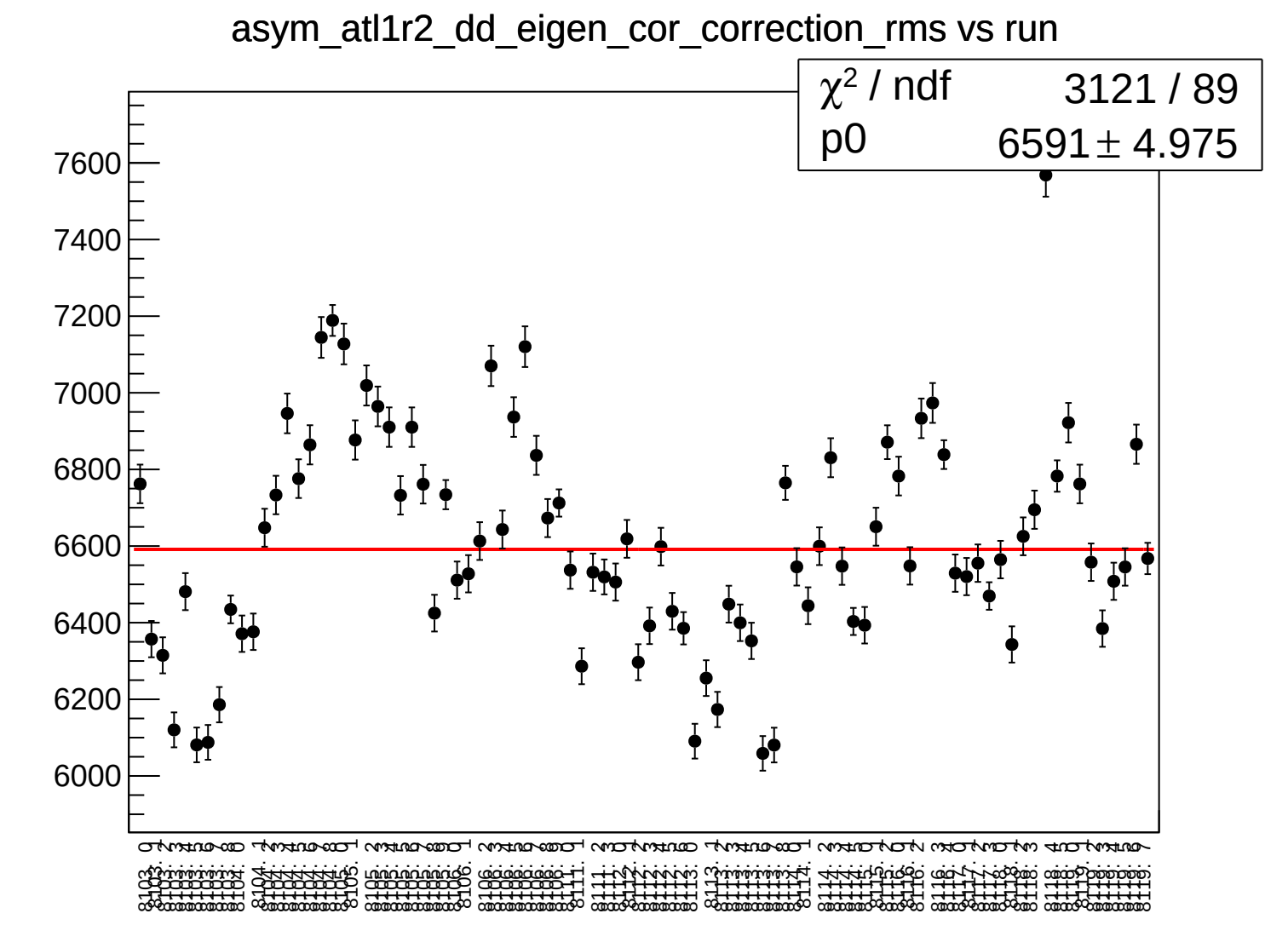

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 71.84 / 89
p0 −892.2 ± 1796
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −156.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

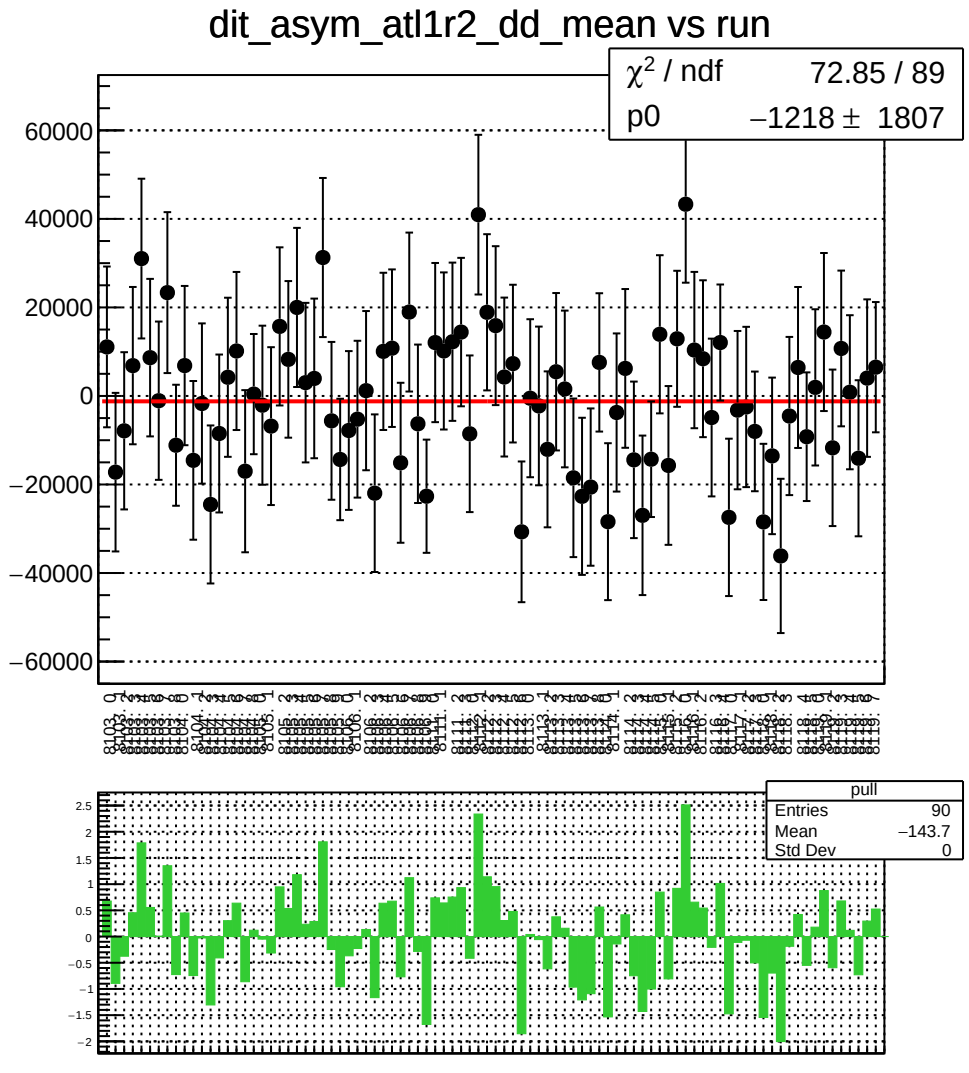

pull1D
Entries 90
Mean 0.01467
Std Dev 0.8933
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

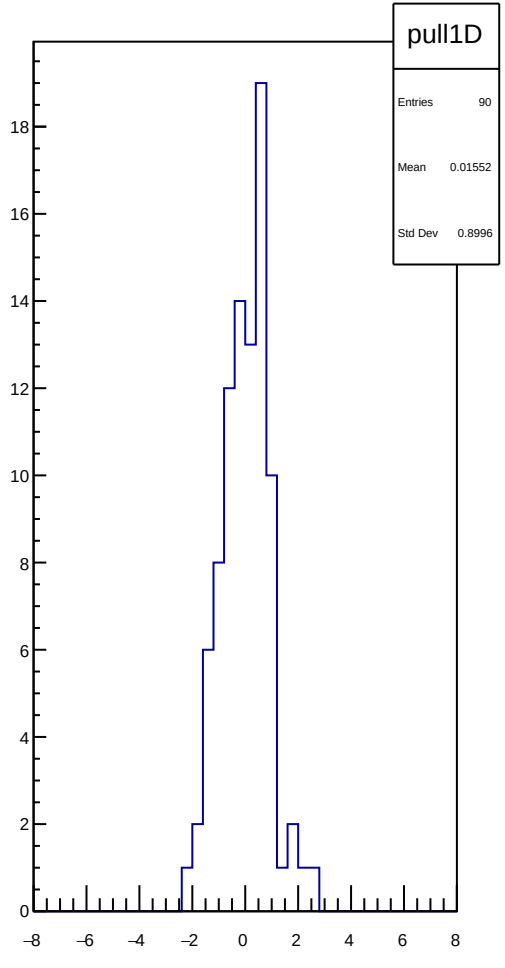

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 140 / 89
p0 1684 ± 1.27
1740
1720
1700
1680
1660
1640
1620

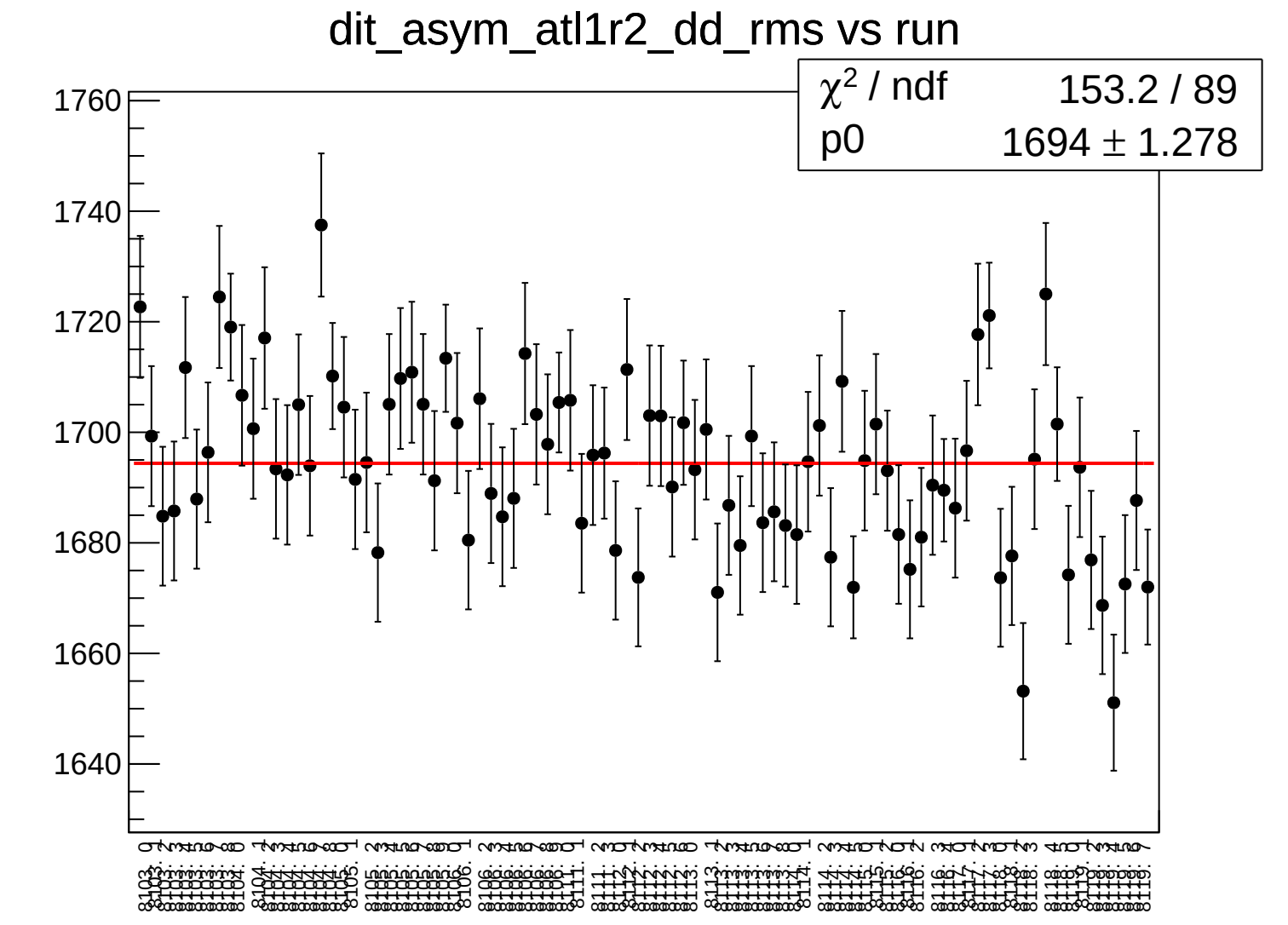

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.63 / 89
p0 −8924 ± 7035
×10³
pull
Entries 90
Mean 960.6
Std Dev 0

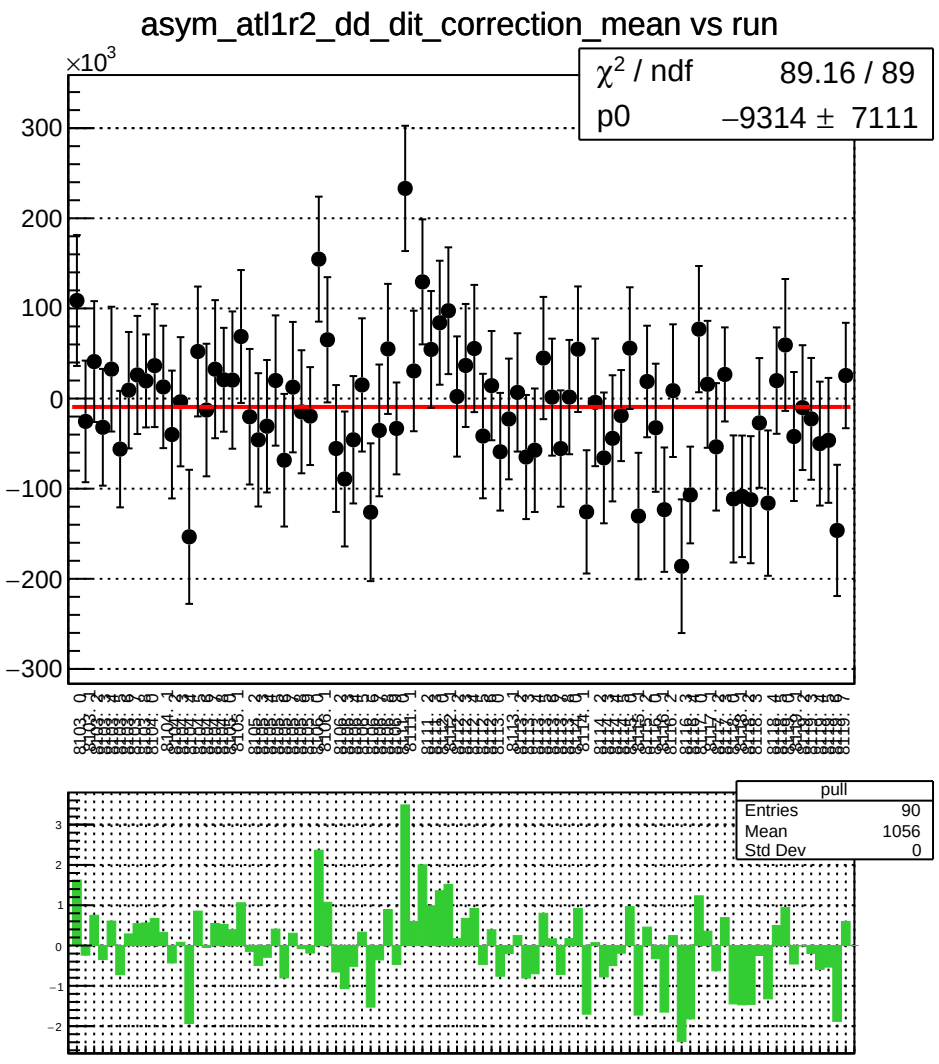

pull1D
Entries 90
Mean −0.007829
Std Dev 0.9979

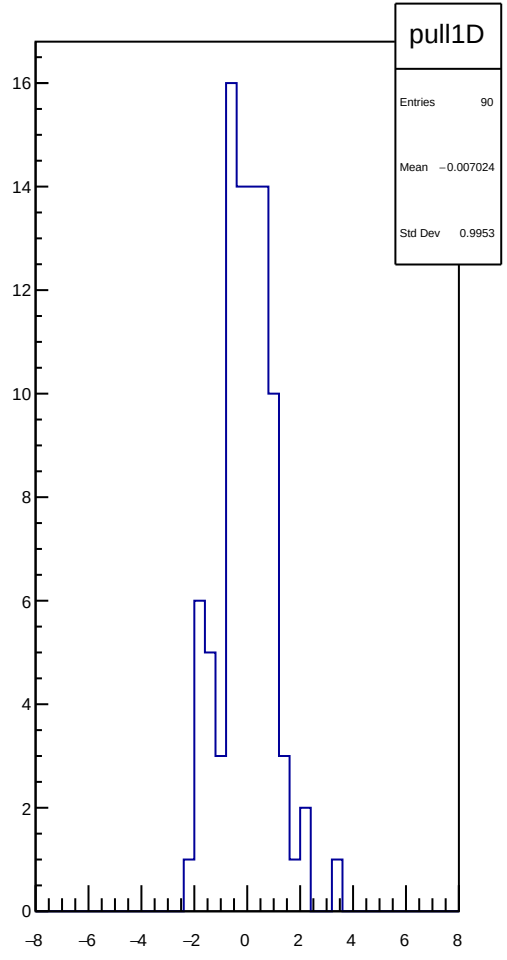

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3121 / 89
p0 6591 ± 4.975
7600
7400
7200
7000
6800
6600
6400
6200
6000

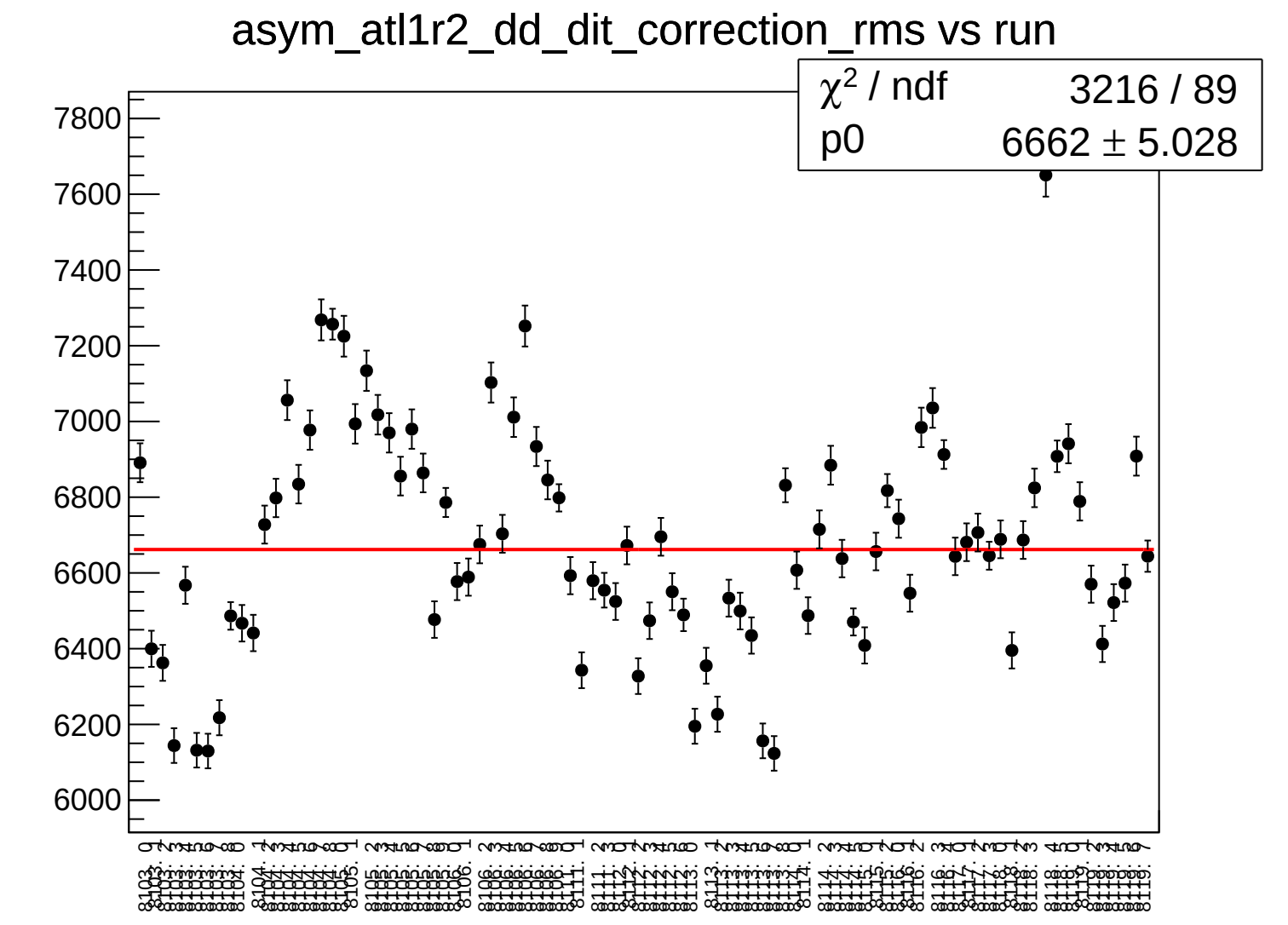

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 72.85 / 89
p0 −1218 ± 1807
pull
Entries 90
Mean −143.7
Std Dev 0

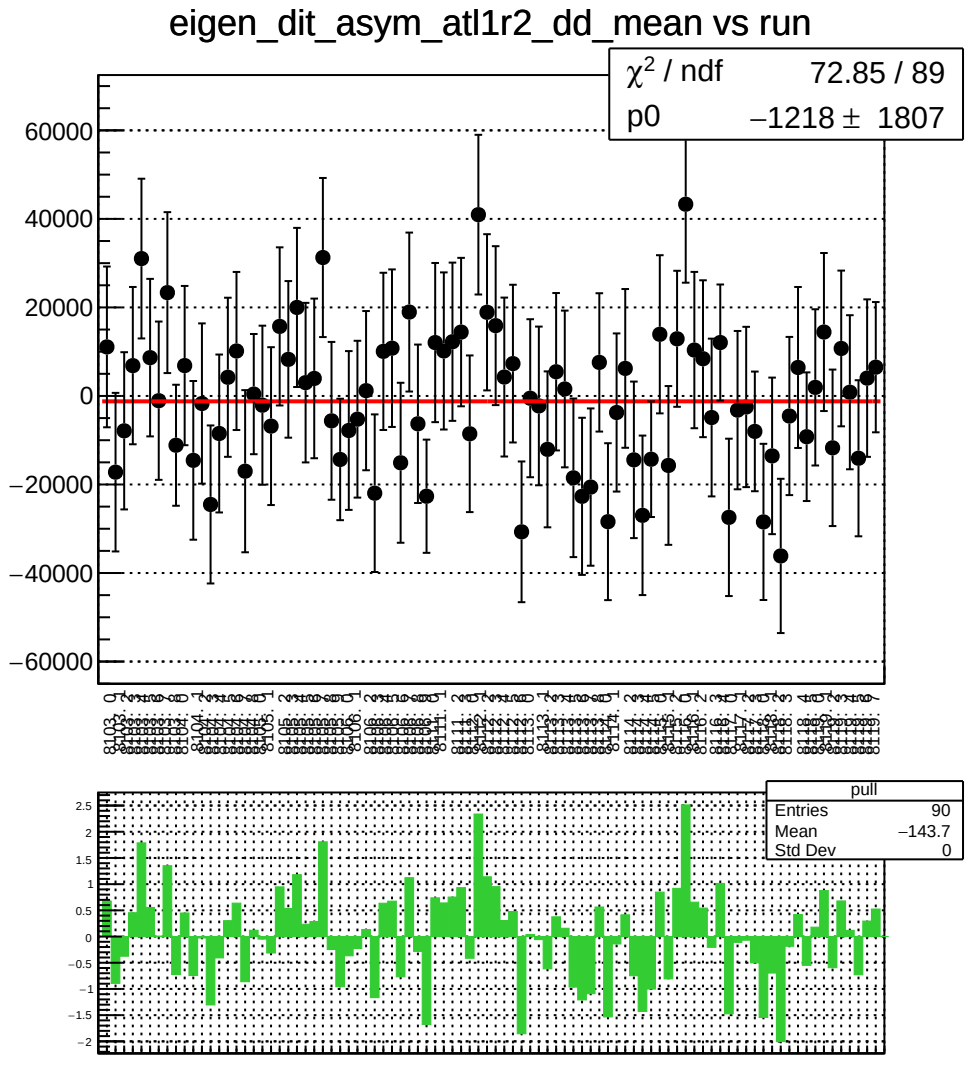

pull1D
Entries 90
Mean 0.01552
Std Dev 0.8996

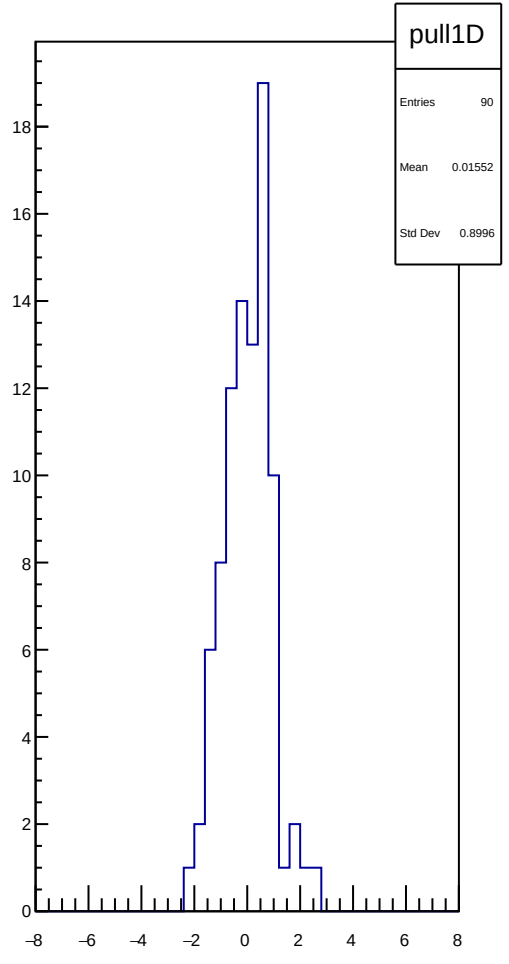

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 153.2 / 89
p0 1694 ± 1.278
1760
1740
1720
1700
1680
1660
1640

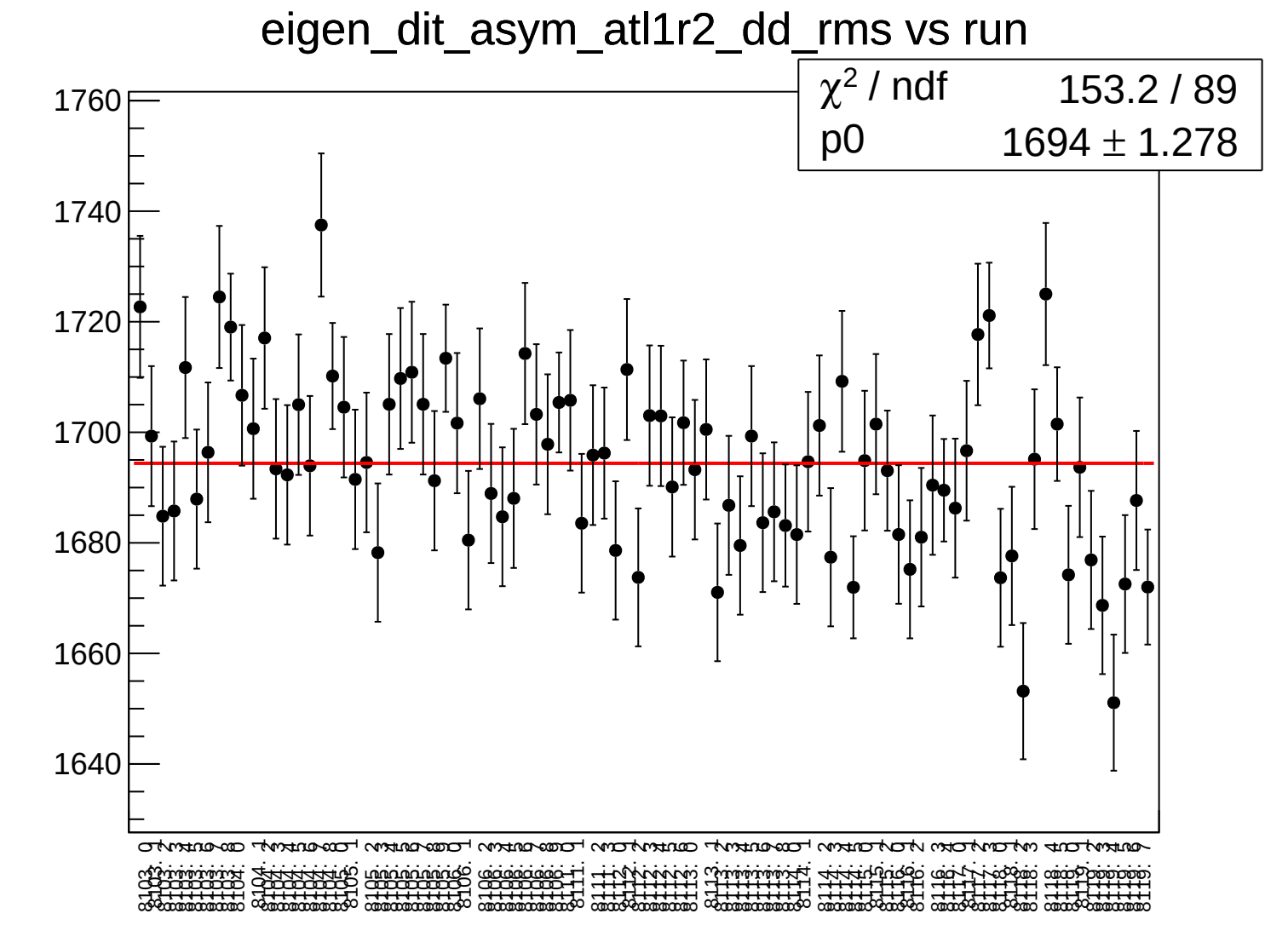

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.16 / 89
p0 −9314 ± 7111
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean 1056
Std Dev 0
3
2
1
0
−1
−2

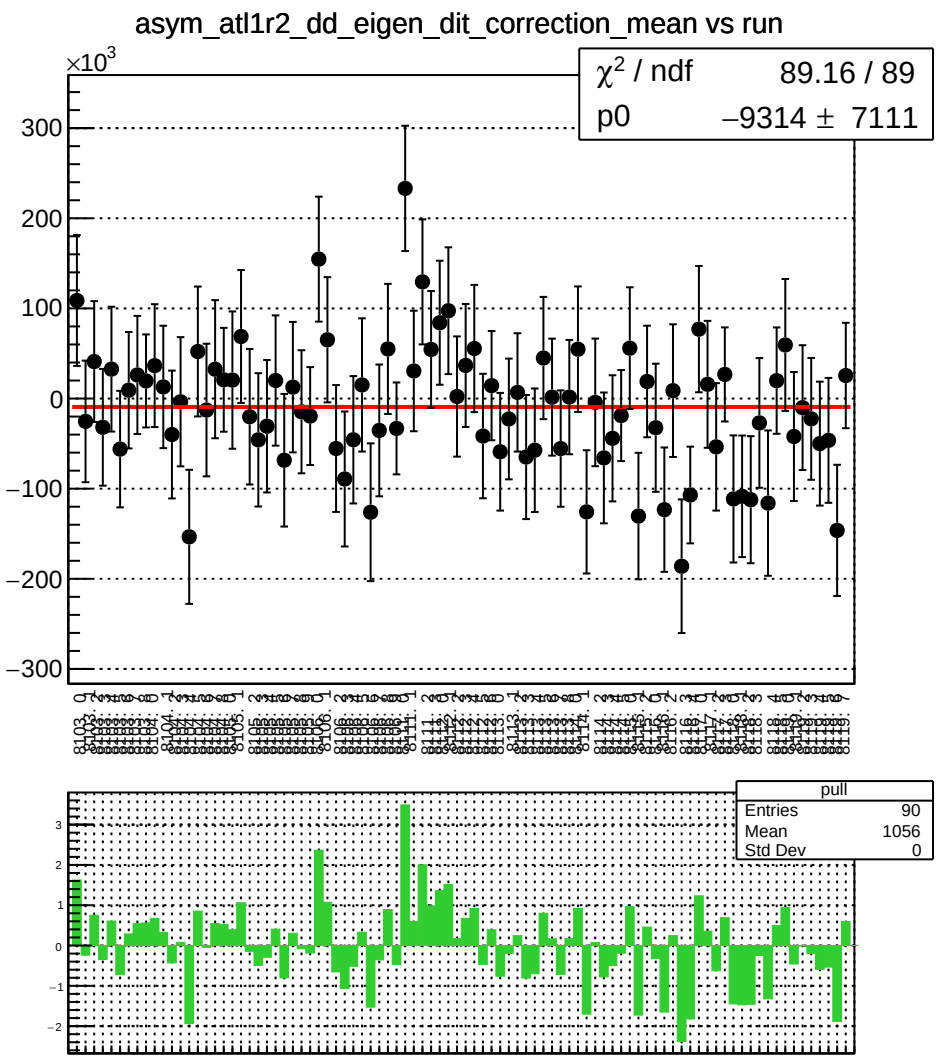

pull1D
Entries 90
Mean −0.007024
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

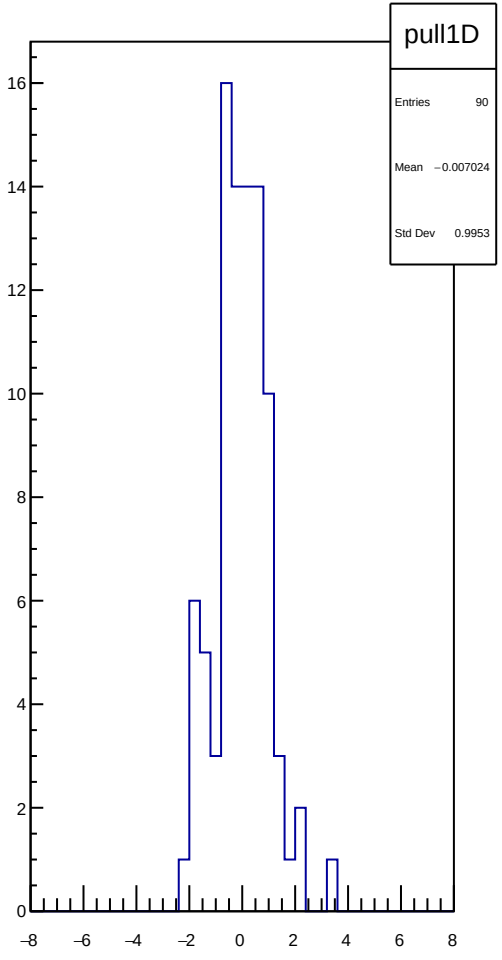

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3216 / 89
p0 6662 ± 5.028
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

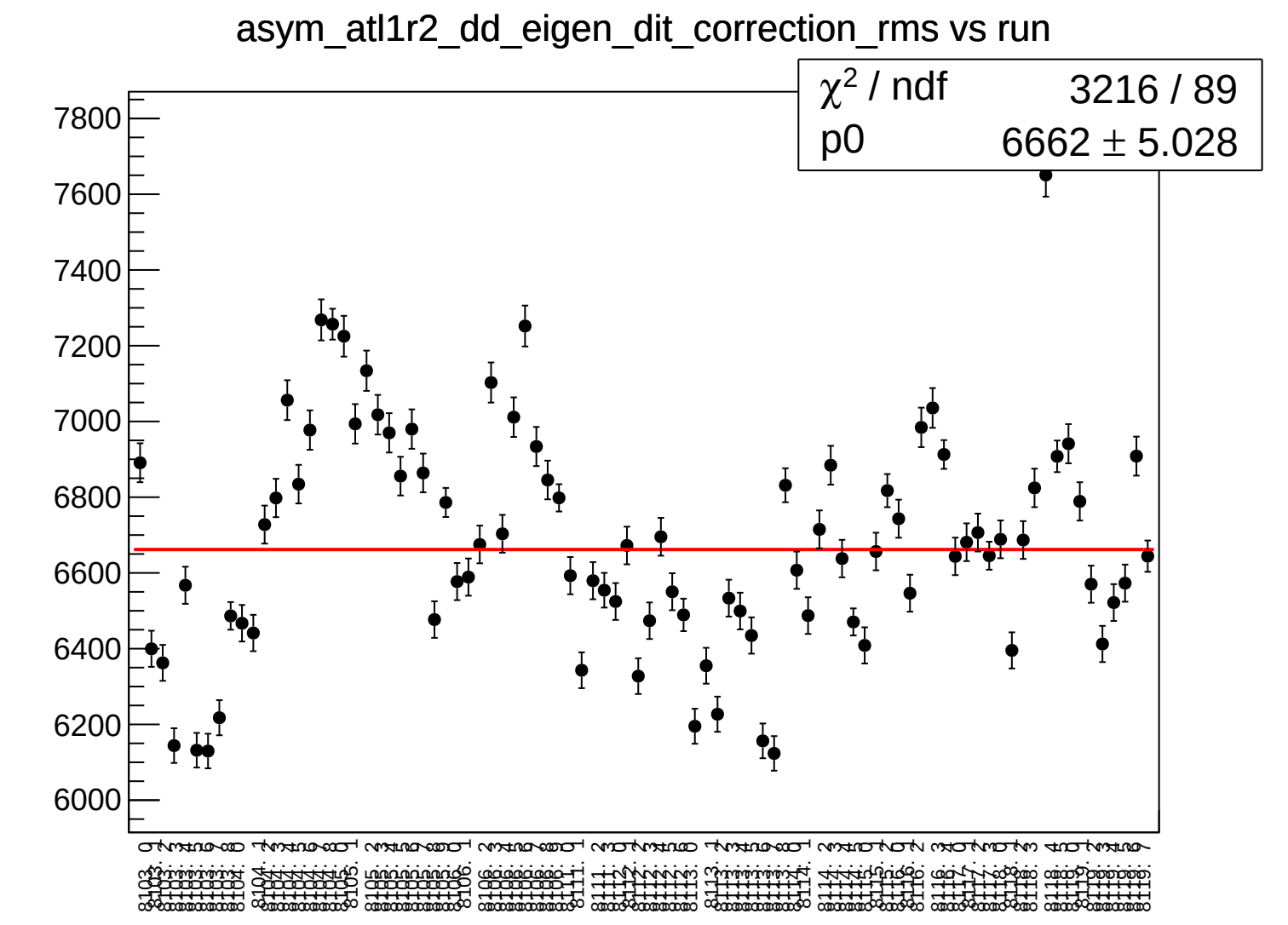

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 72.85 / 89
p0 −1218 ± 1807
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −143.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

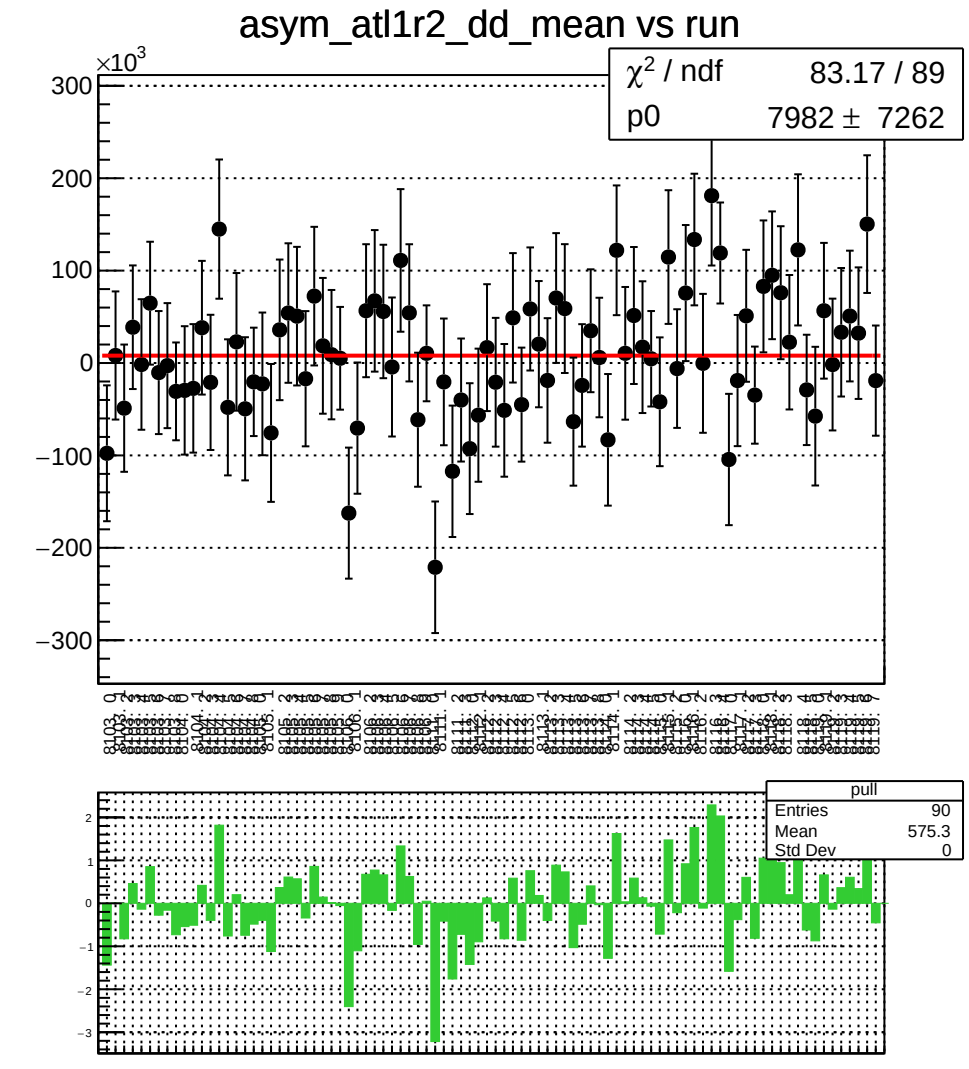

pull1D
Entries 90
Mean 0.01552
Std Dev 0.8996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

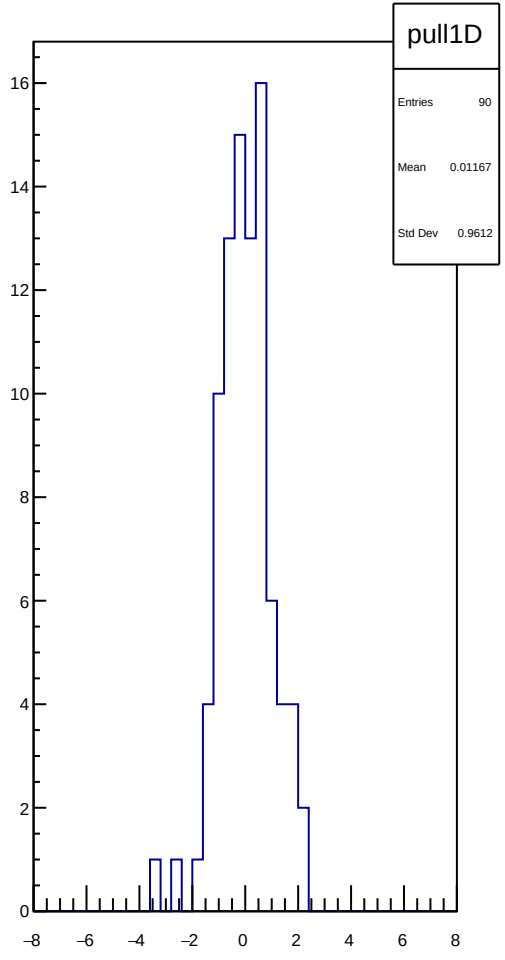

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 153.2 / 89
p0 1694 ± 1.278
1760
1740
1720
1700
1680
1660
1640


asym_atl1r2_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.16 / 89
p0 −9314 ± 7111
×10³
pull
Entries 90
Mean 1056
Std Dev 0

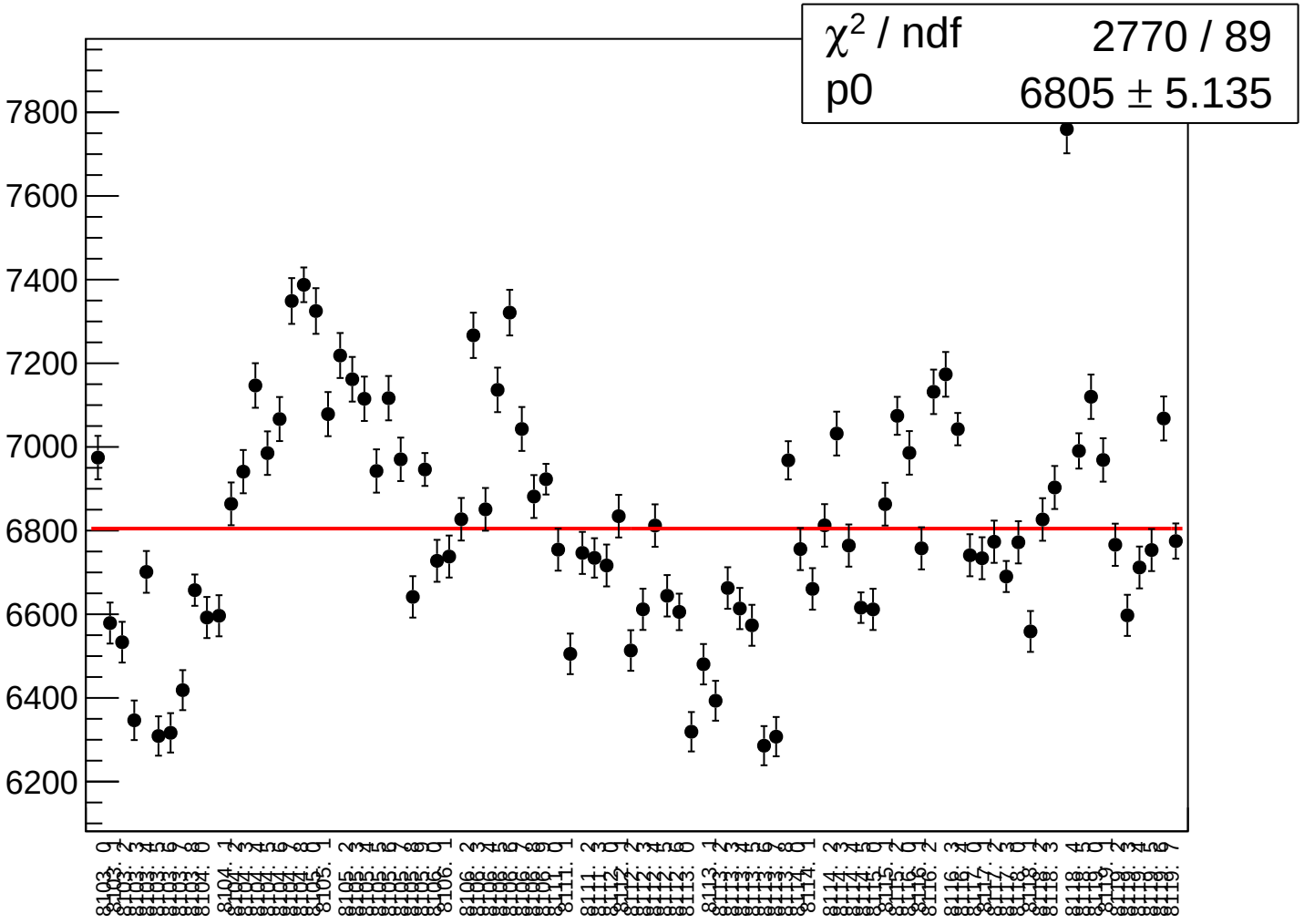

pull1D
Entries 90
Mean −0.007024
Std Dev 0.9953

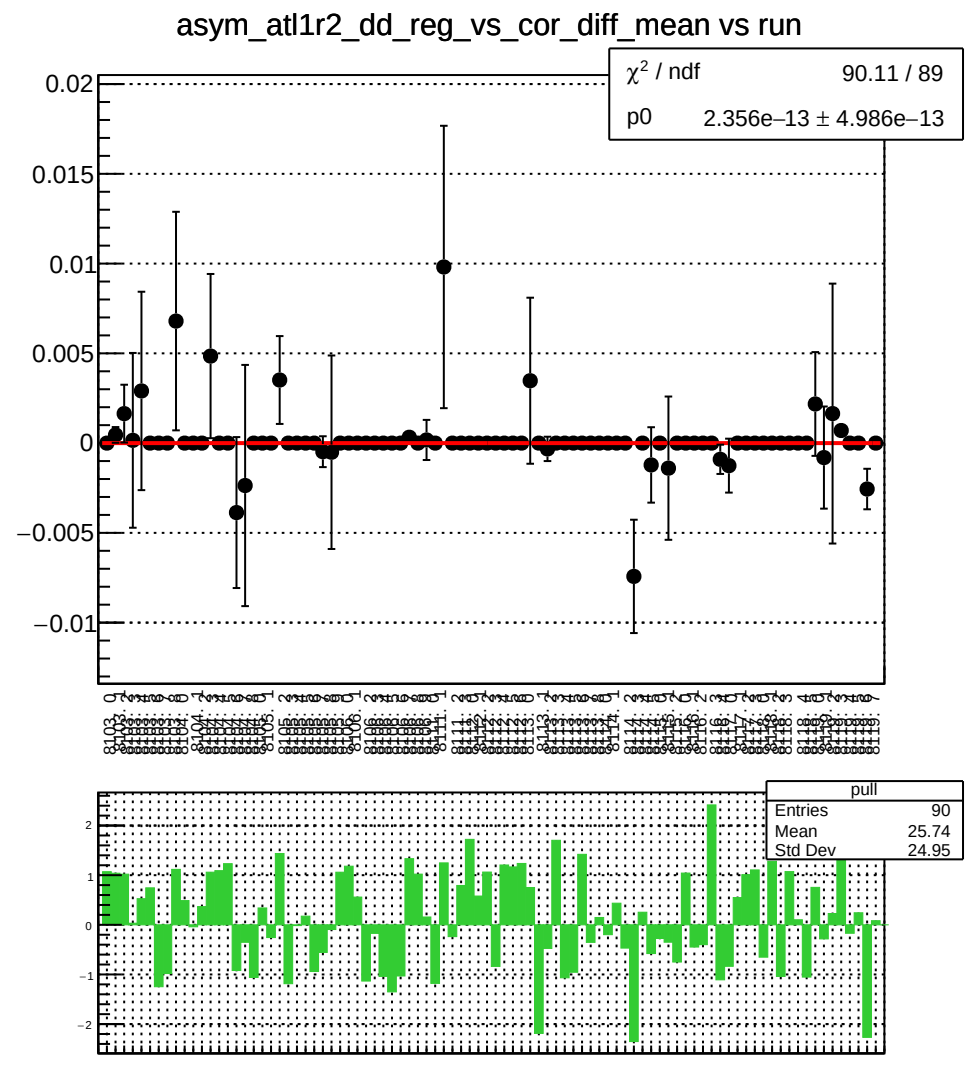

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3216 / 89
p0 6662 ± 5.028
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

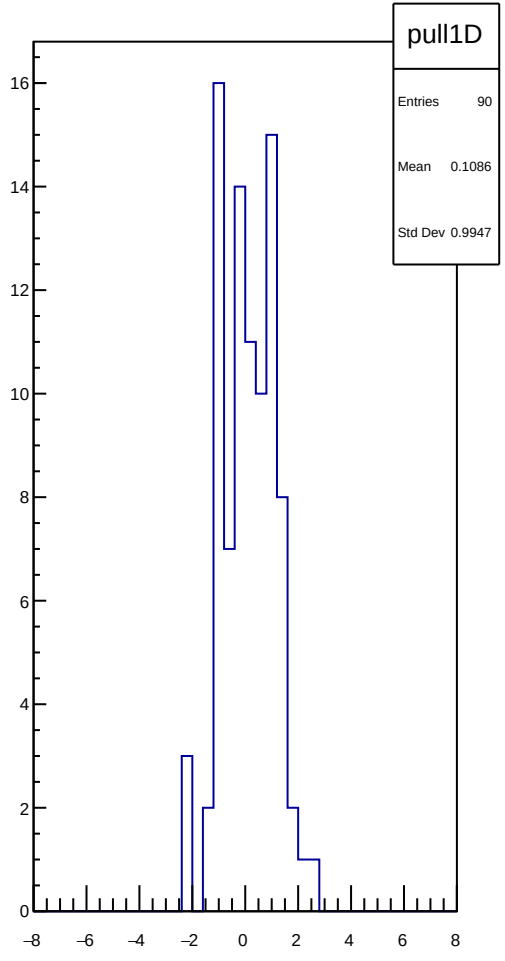

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 83.17 / 89
p0 7982 ± 7262
pull
Entries 90
Mean 575.3
Std Dev 0

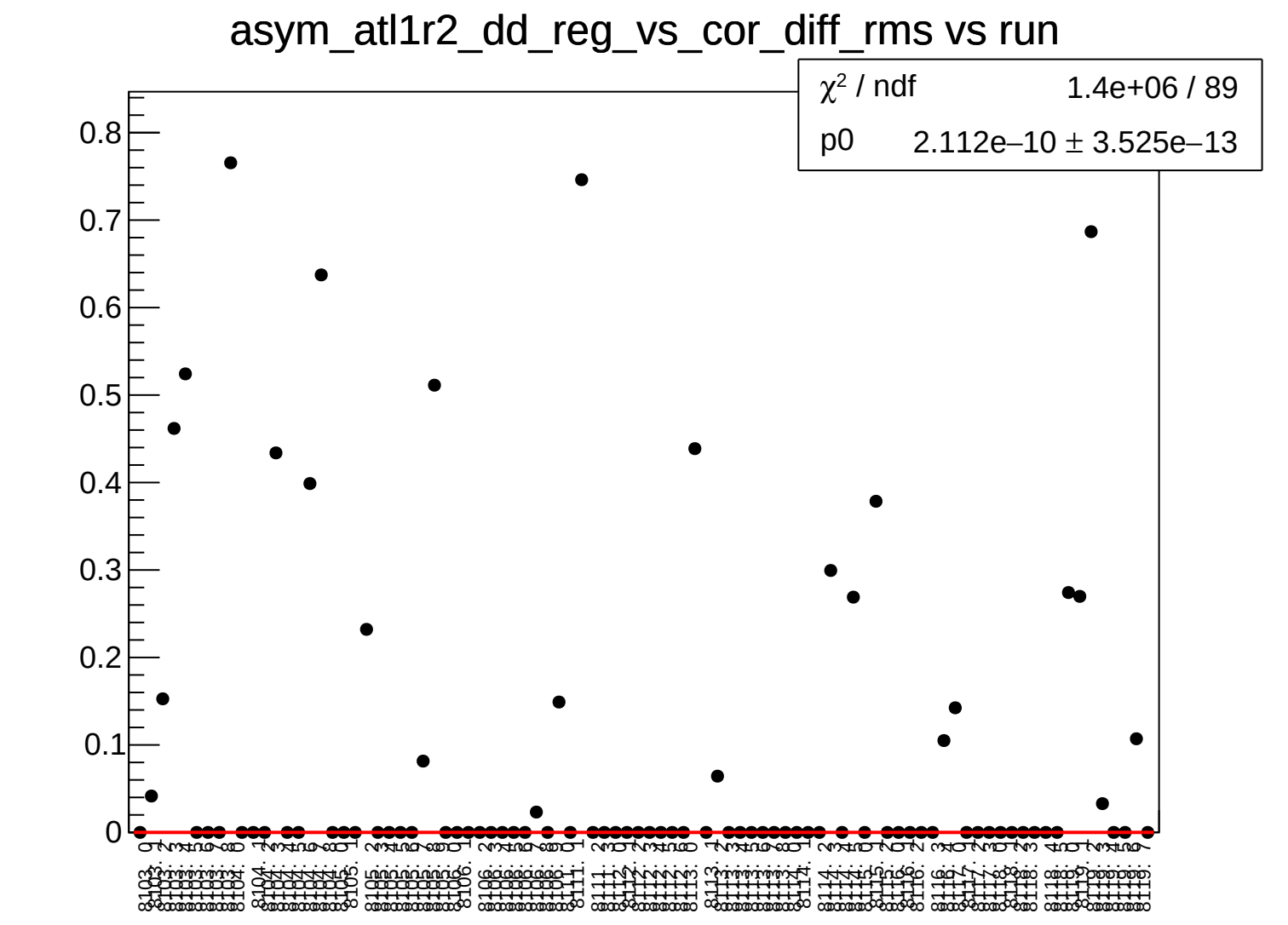

pull1D
Entries 90
Mean 0.01167
Std Dev 0.9612

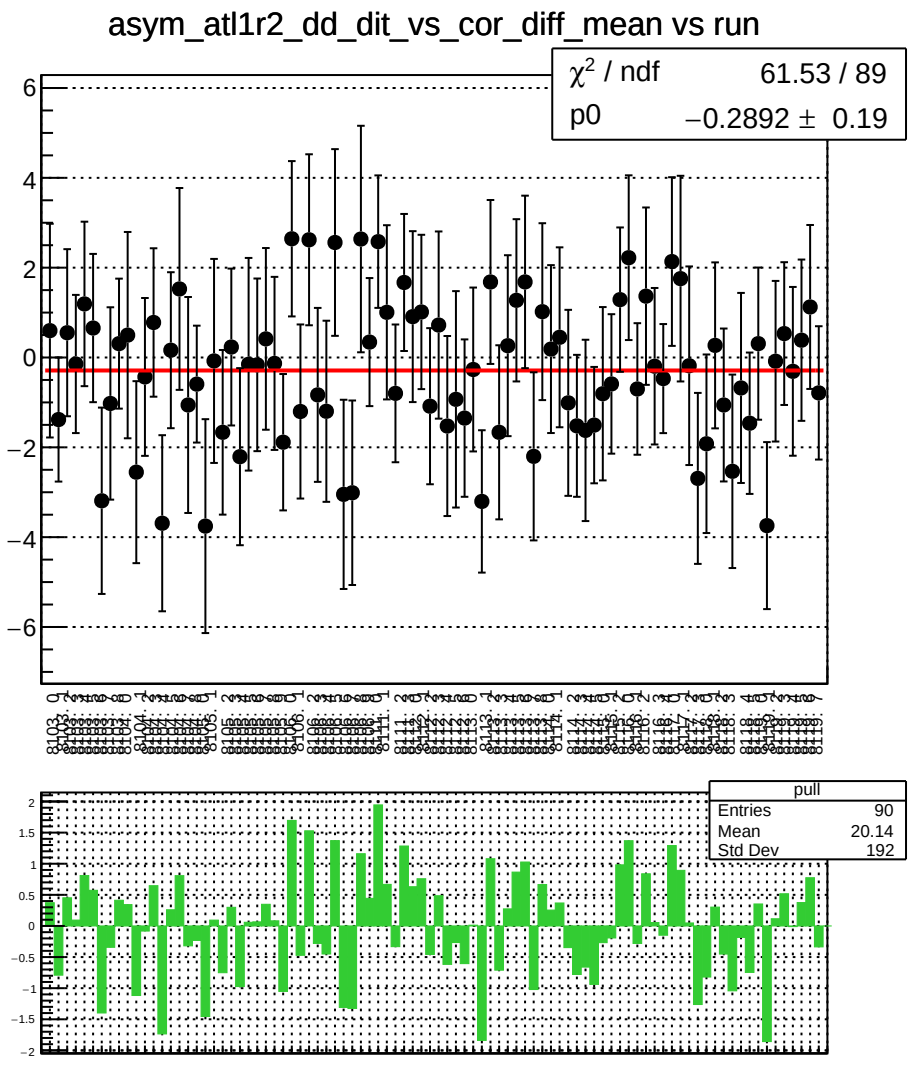
asym_atl1r2_dd_rms vs run

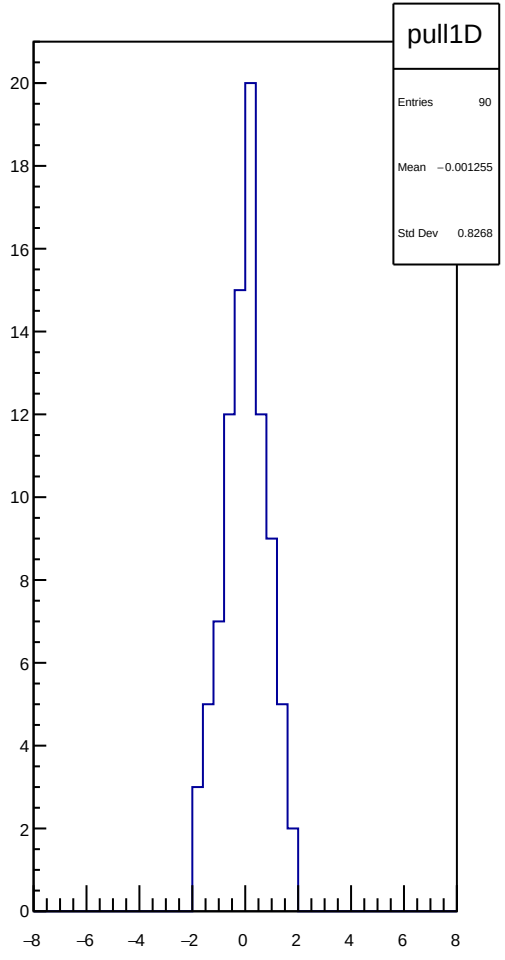


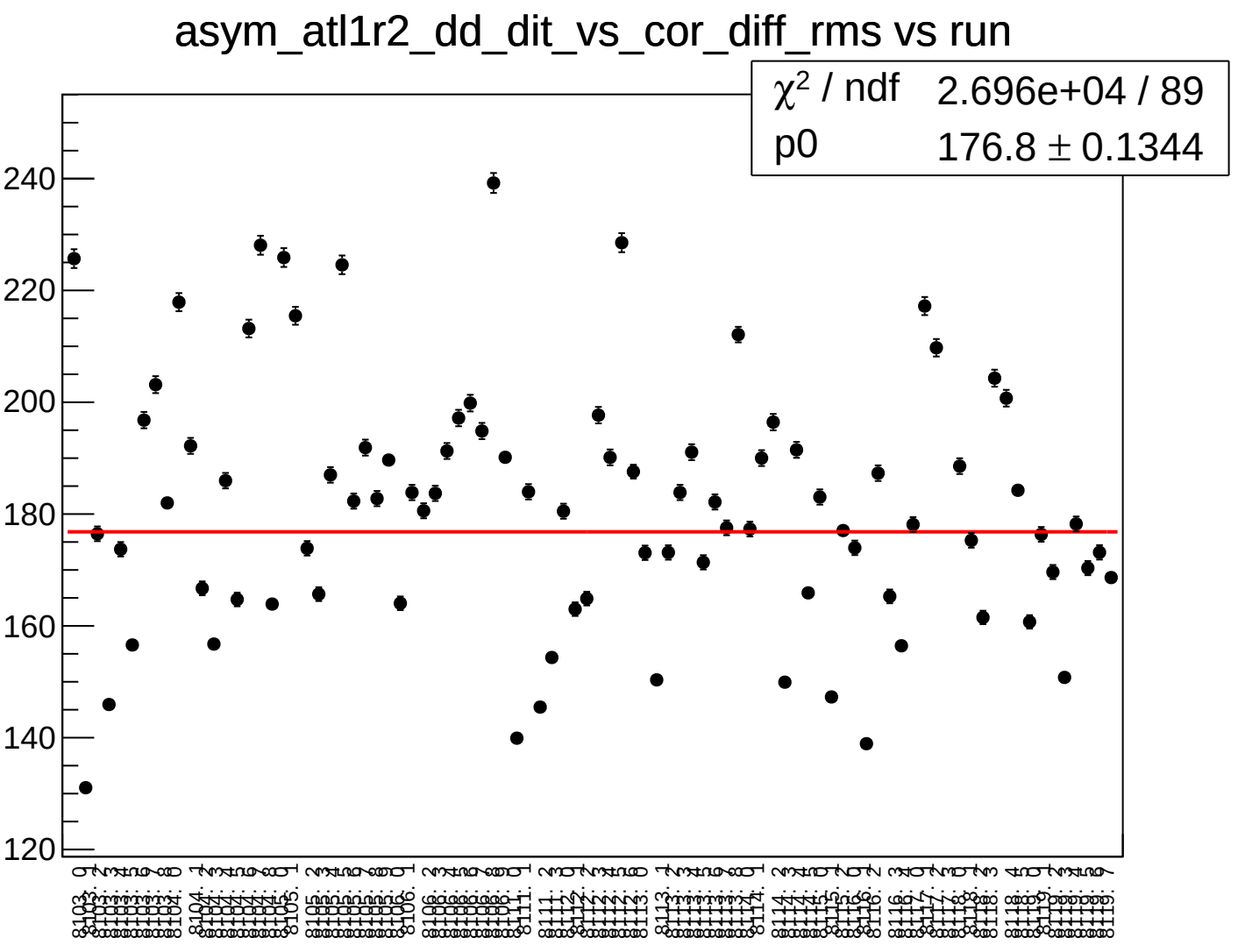

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.11 / 89
p0 2.356e−13 ± 4.986e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean 25.74
Std Dev 24.95
2
1
0
−1
−2

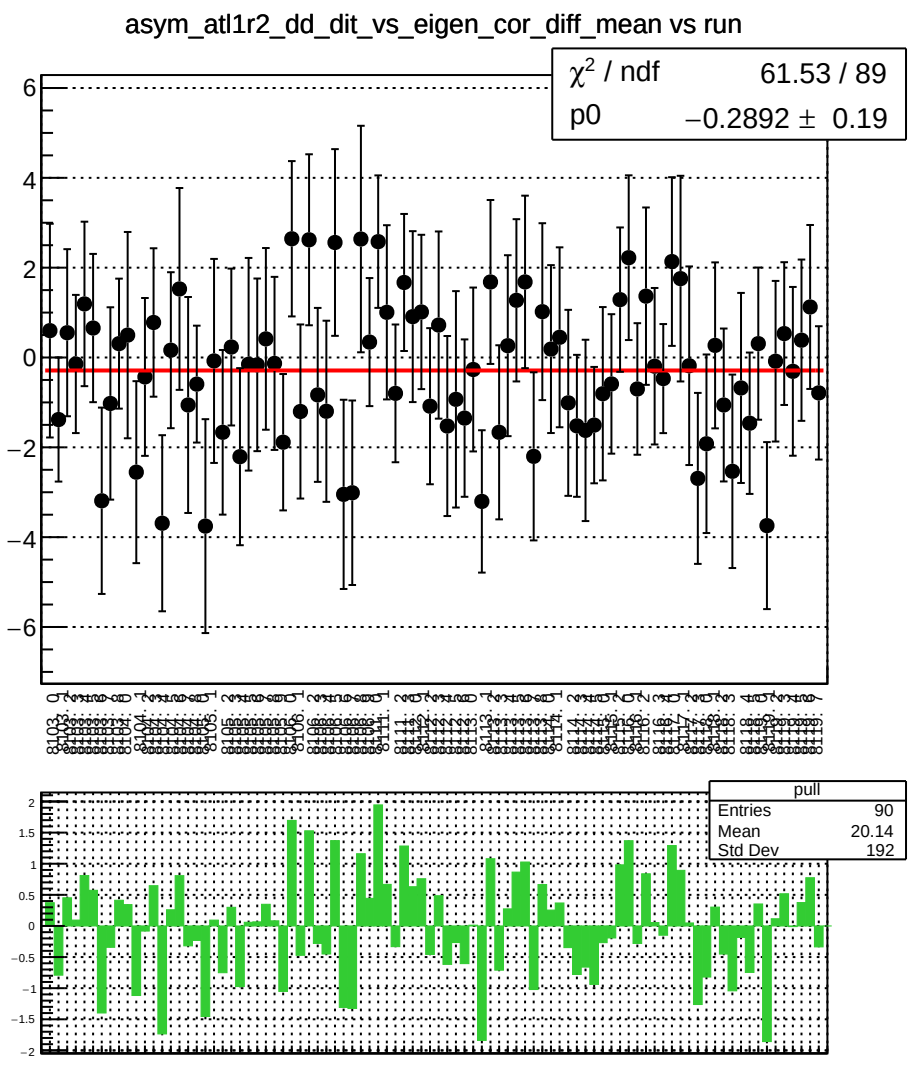

pull1D
Entries 90
Mean 0.1086
Std Dev 0.9947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

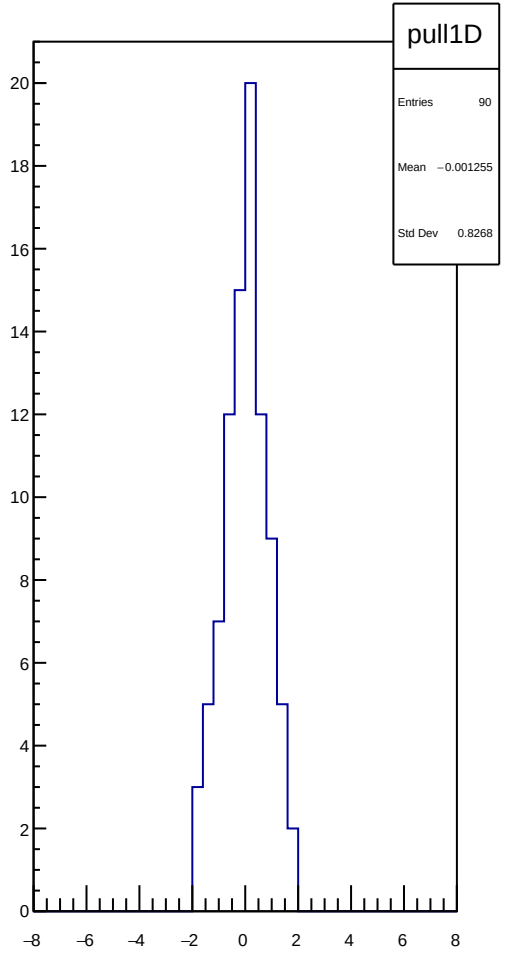

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.4e+06 / 89
p0 2.112e−10 ± 3.525e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

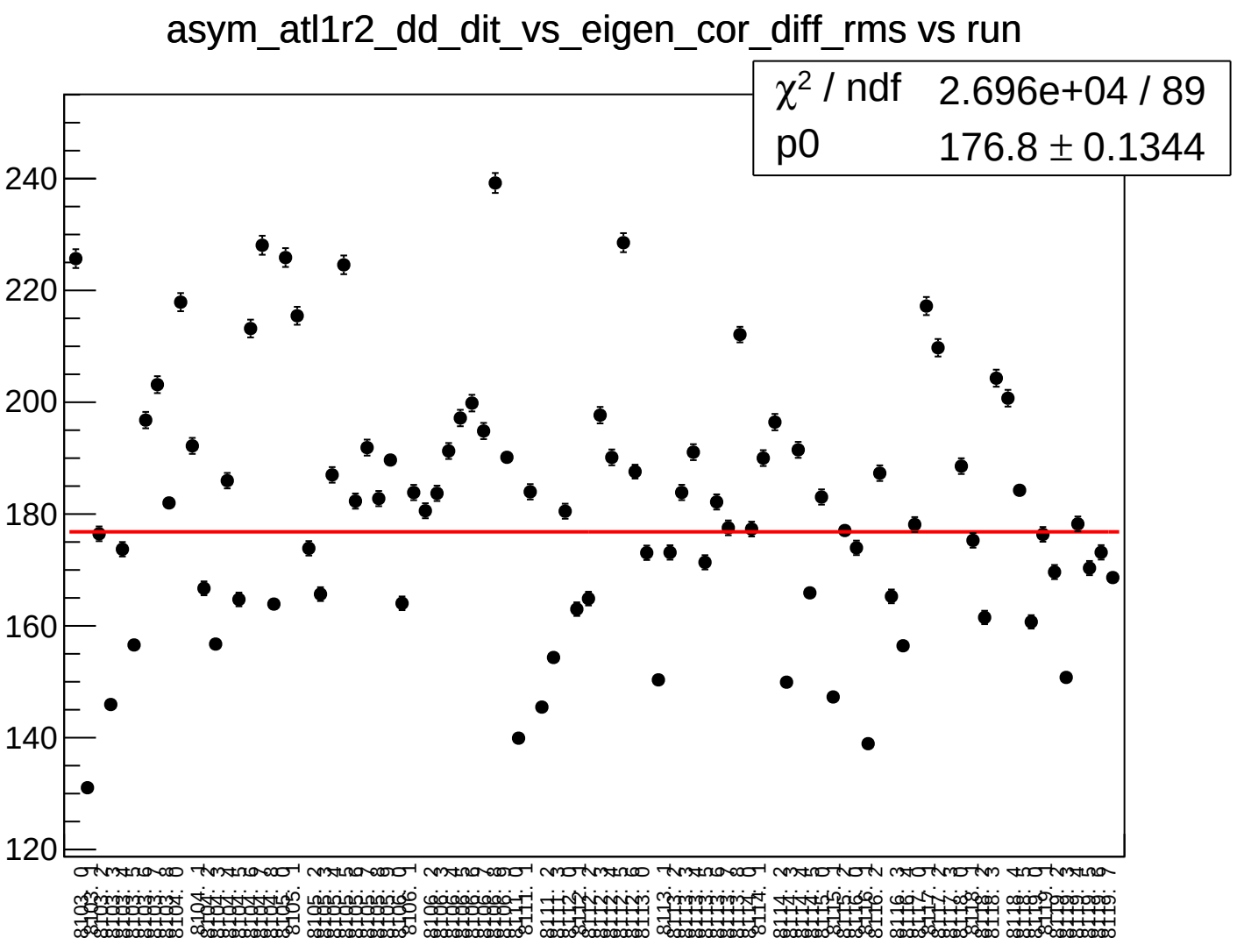

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 89
p0 −0.2892 ± 0.19
pull
Entries 90
Mean 20.14
Std Dev 192

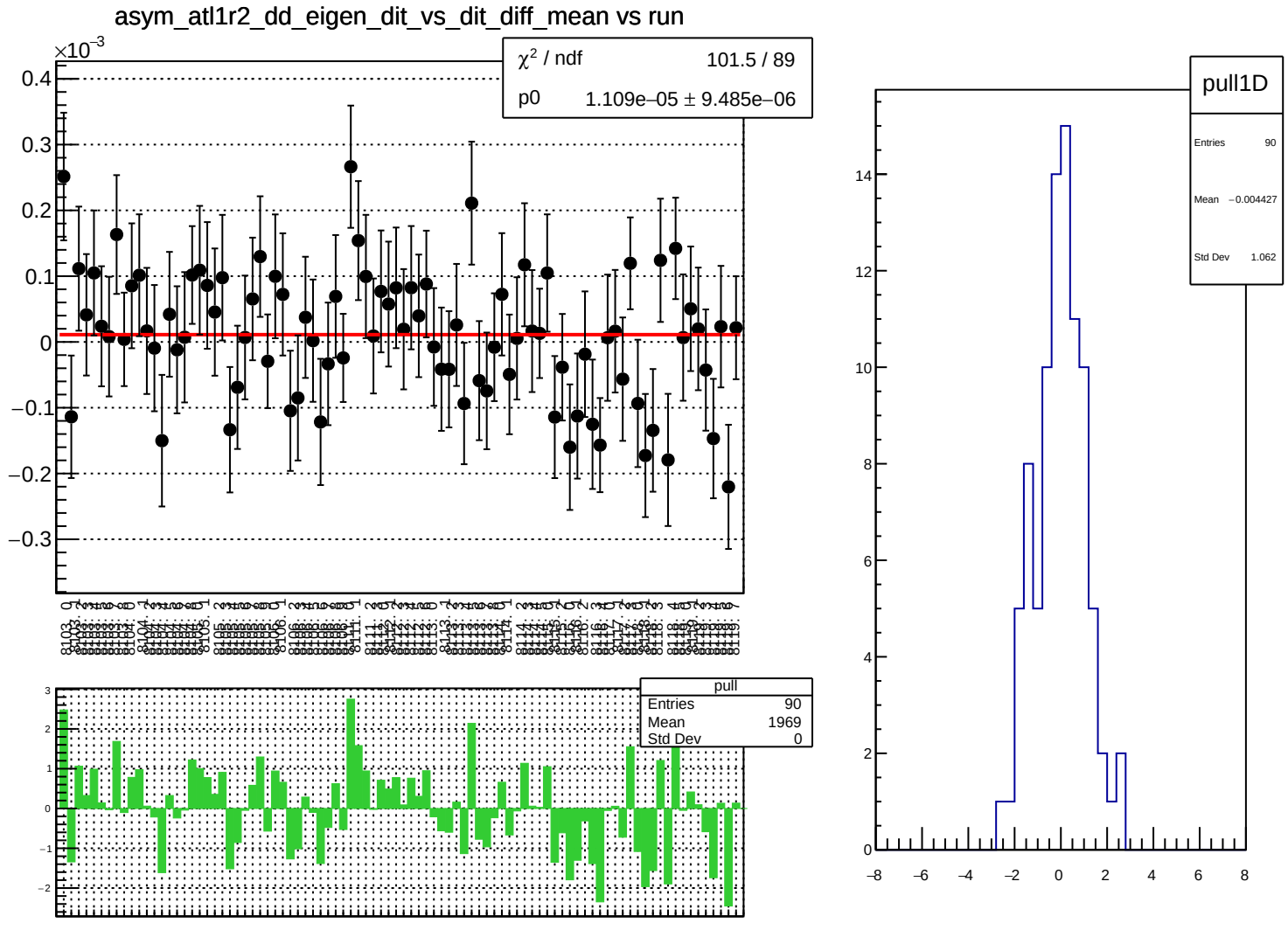

pull1D
Entries 90
Mean −0.001255
Std Dev 0.8268

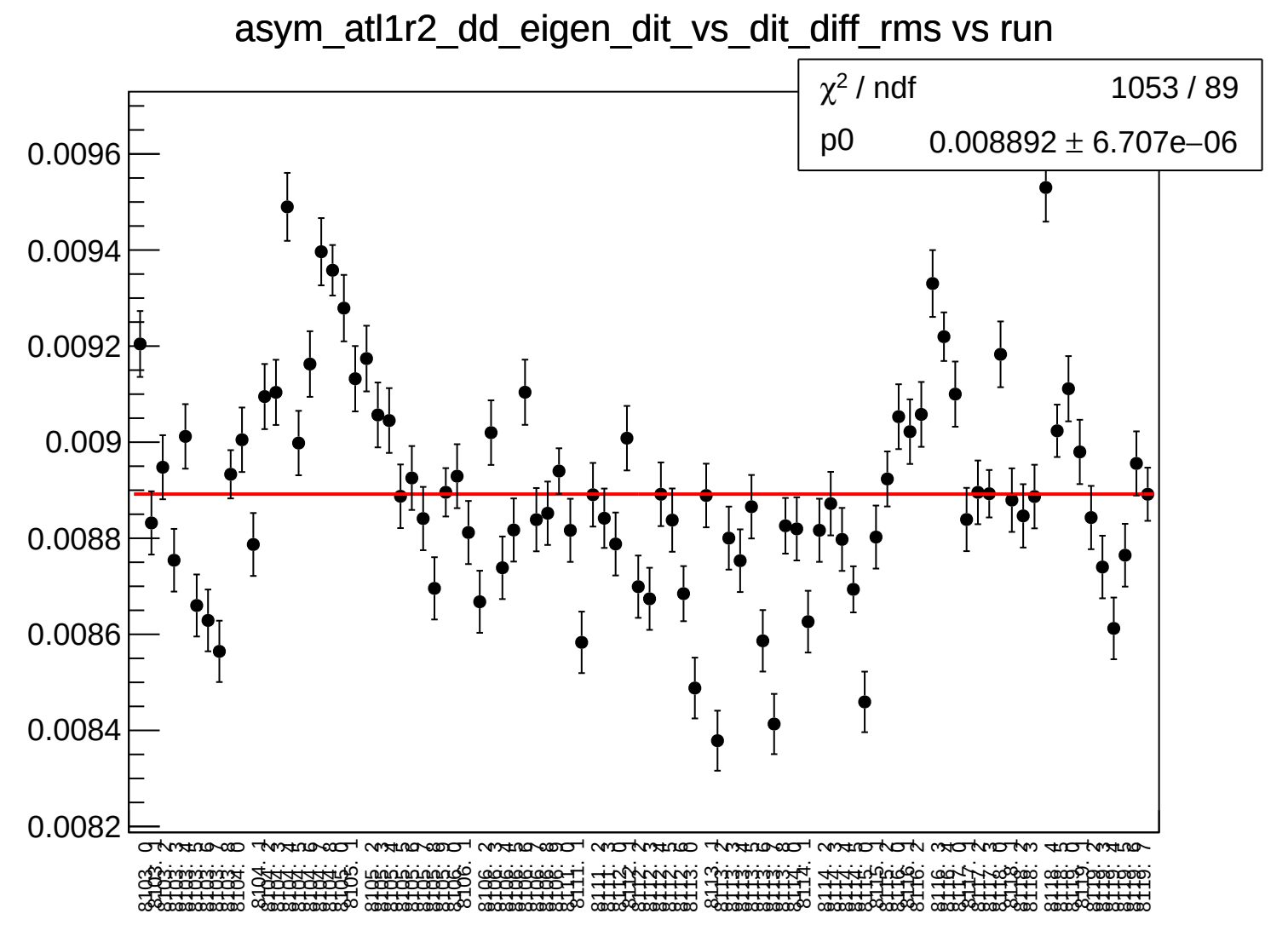

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.696e+04 / 89
p0 176.8 ± 0.1344
240
220
200
180
160
140
120

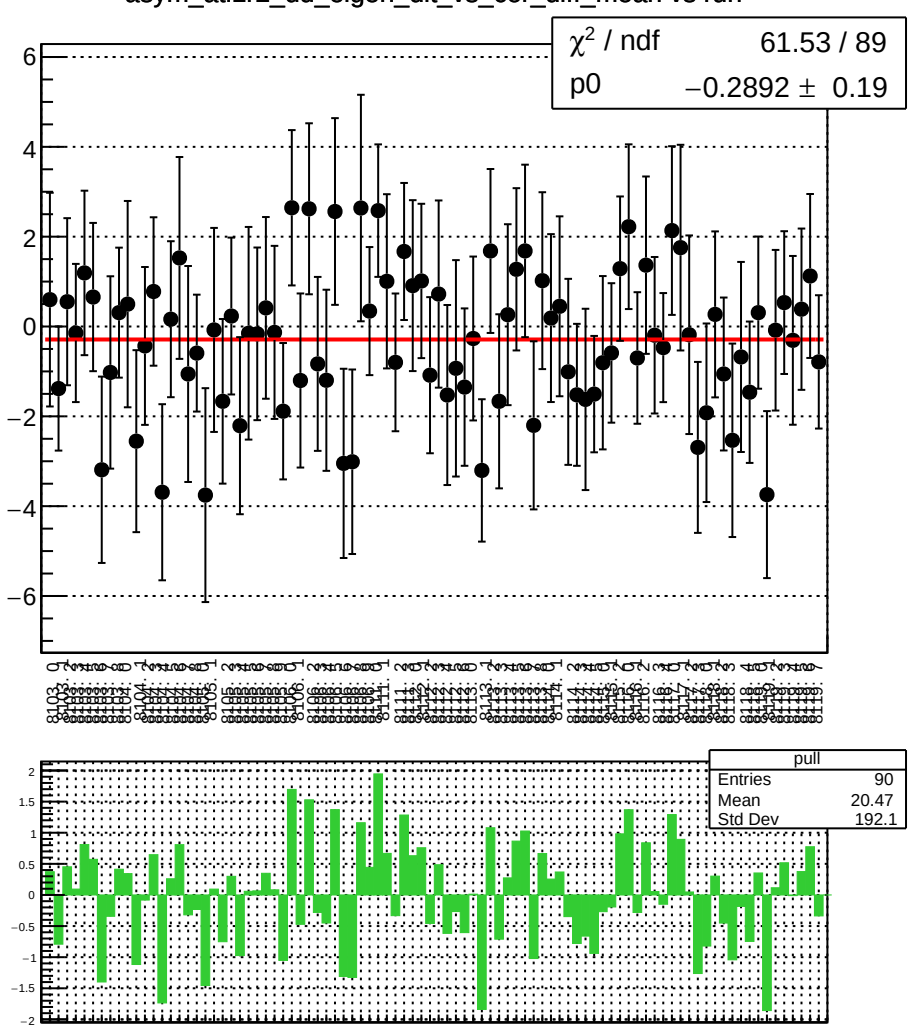

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 89
p0 −0.2892 ± 0.19
pull
Entries 90
Mean 20.14
Std Dev 192

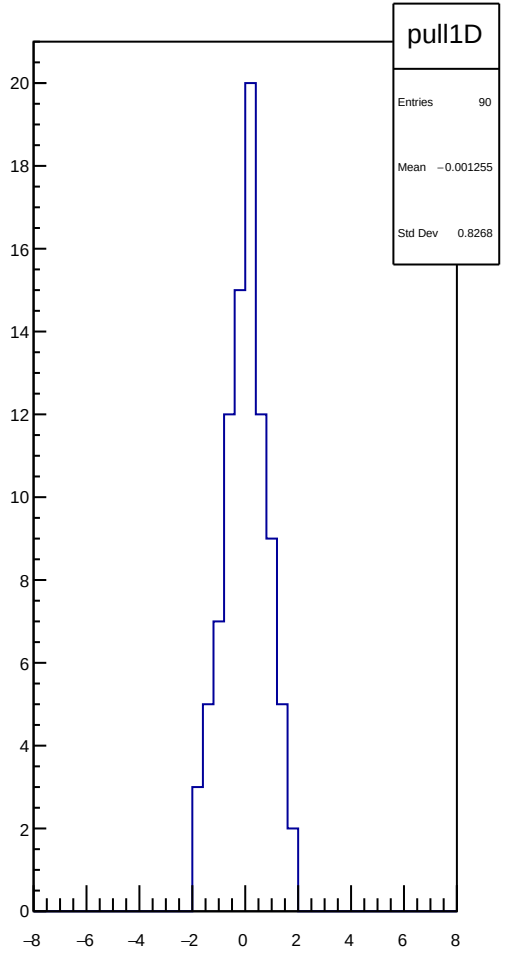

pull1D
Entries 90
Mean −0.001255
Std Dev 0.8268

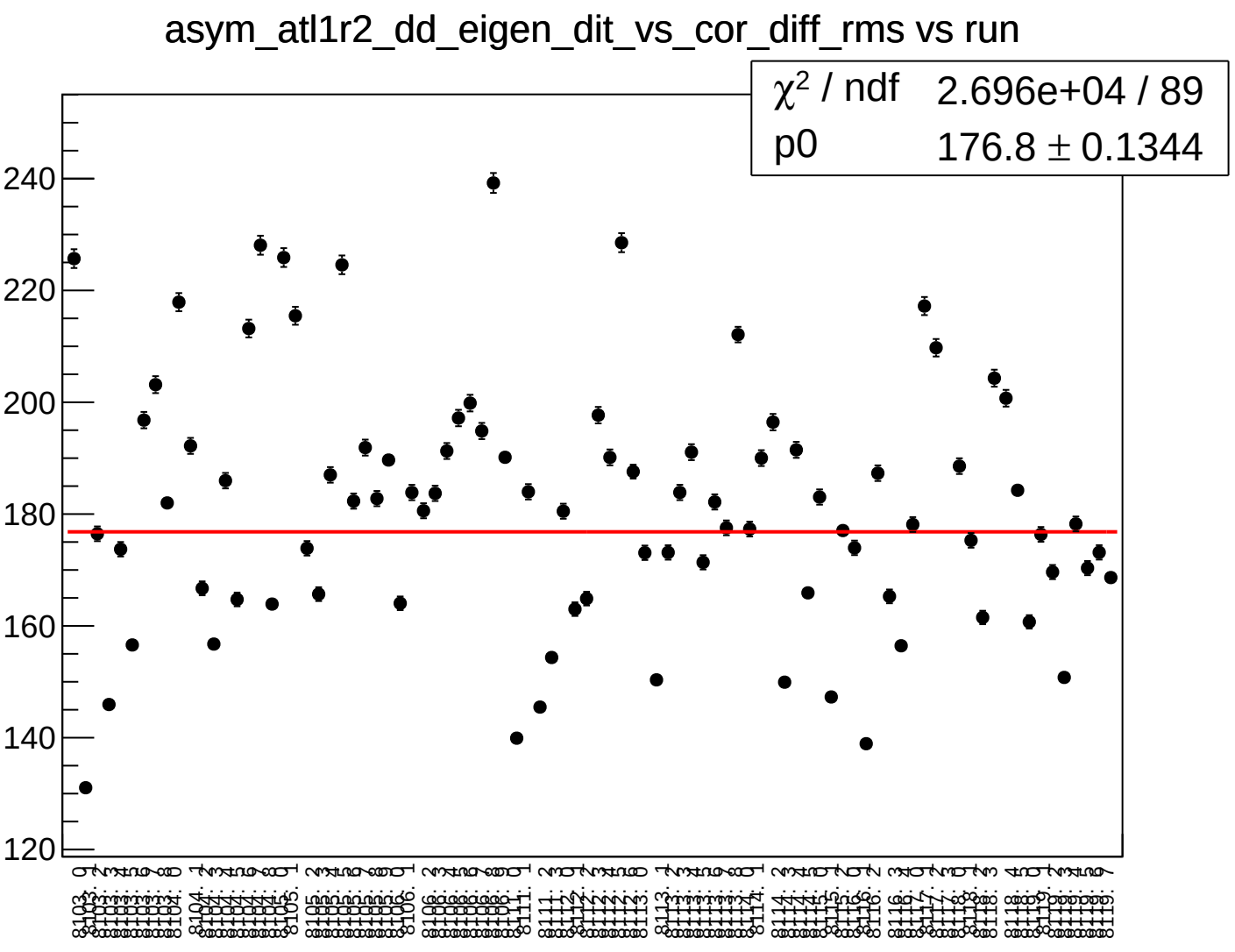

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.696e+04 / 89
p0 176.8 ± 0.1344
240
220
200
180
160
140
120

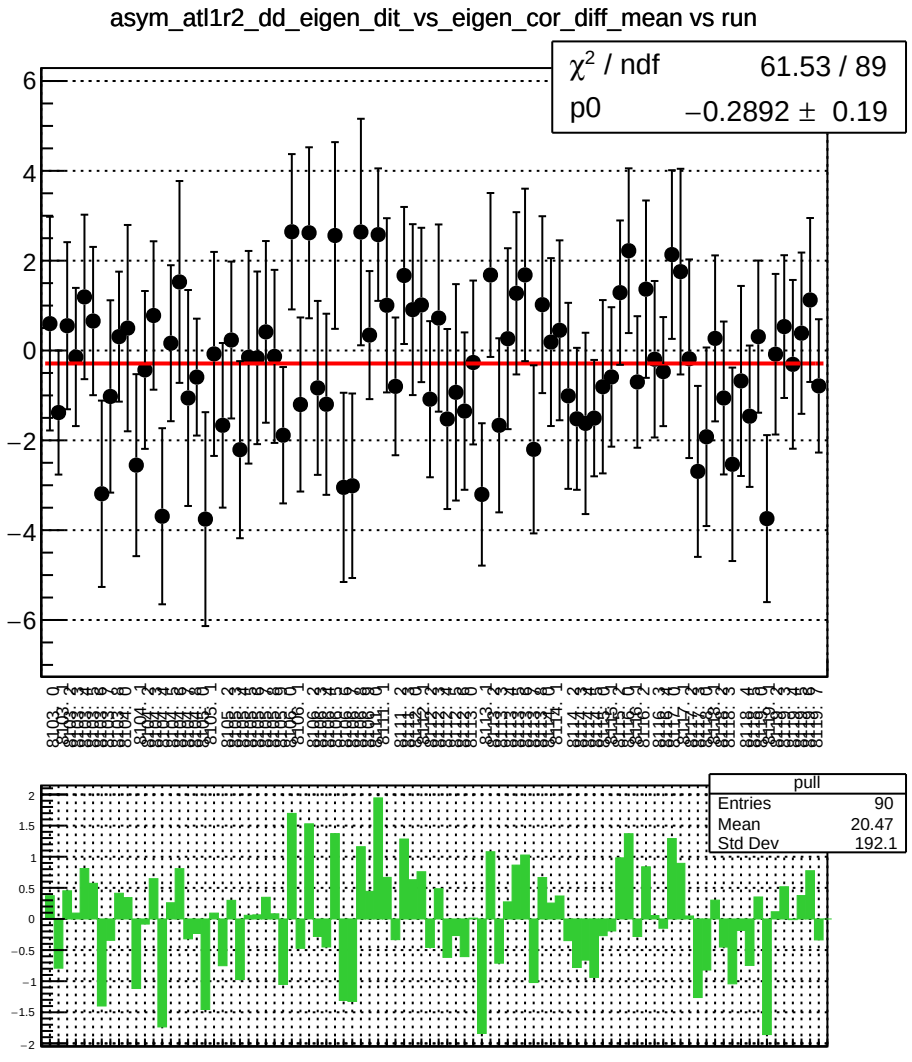

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.5 / 89
p0 1.109e−05 ± 9.485e−06
pull
Entries 90
Mean 1969
Std Dev 0
pull1D
Entries 90
Mean −0.004427
Std Dev 1.062

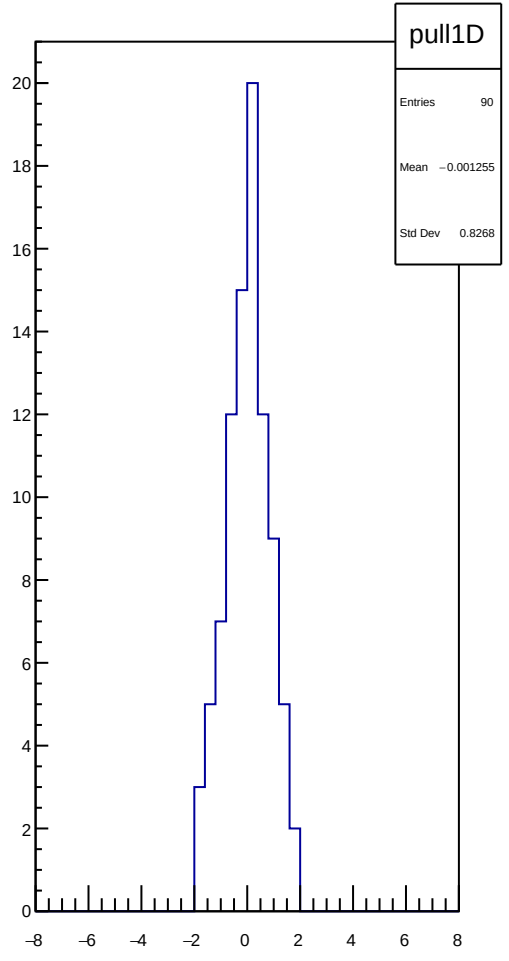

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1053 / 89
p0 0.008892 ± 6.707e−06
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082

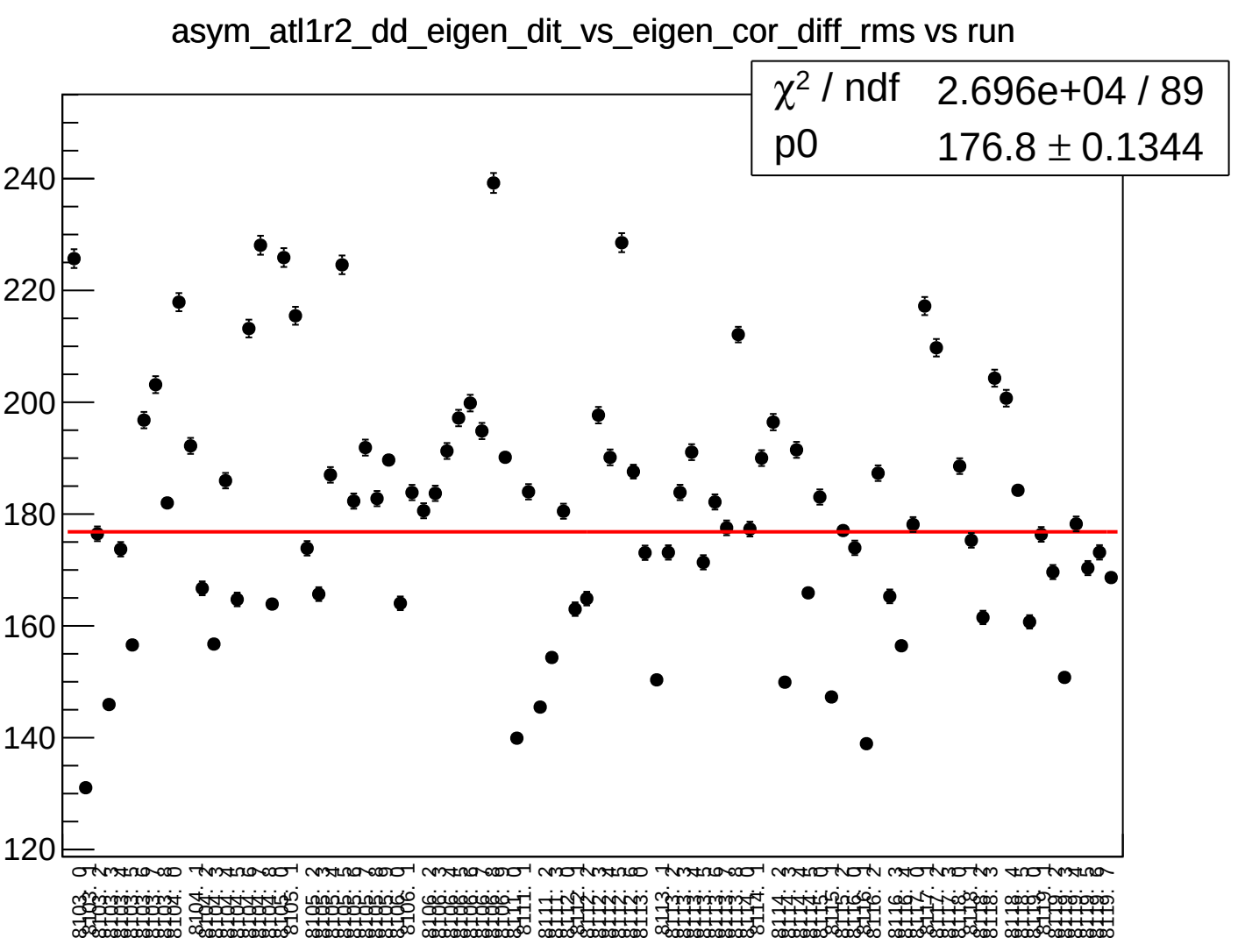

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.53 / 89
p0 −0.2892 ± 0.19
pull
Entries 90
Mean 20.47
Std Dev 192.1

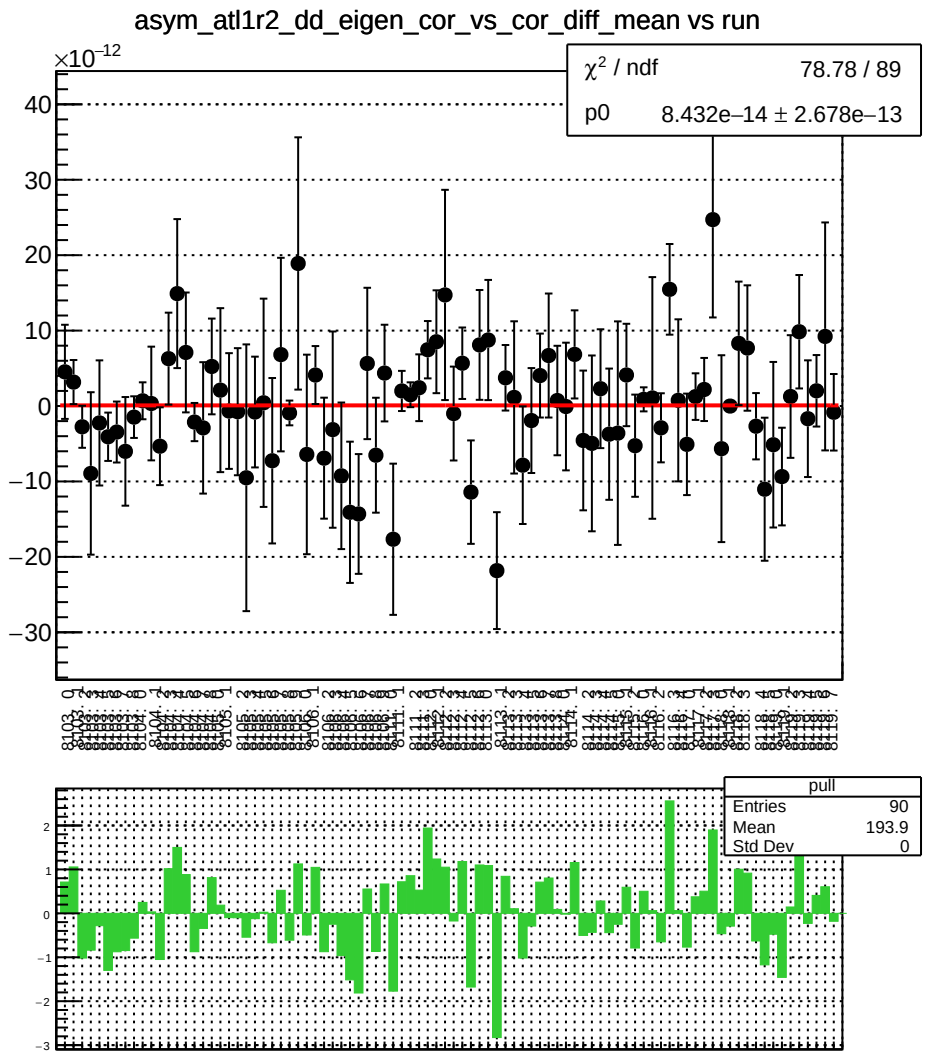

pull1D
Entries 90
Mean −0.001255
Std Dev 0.8268

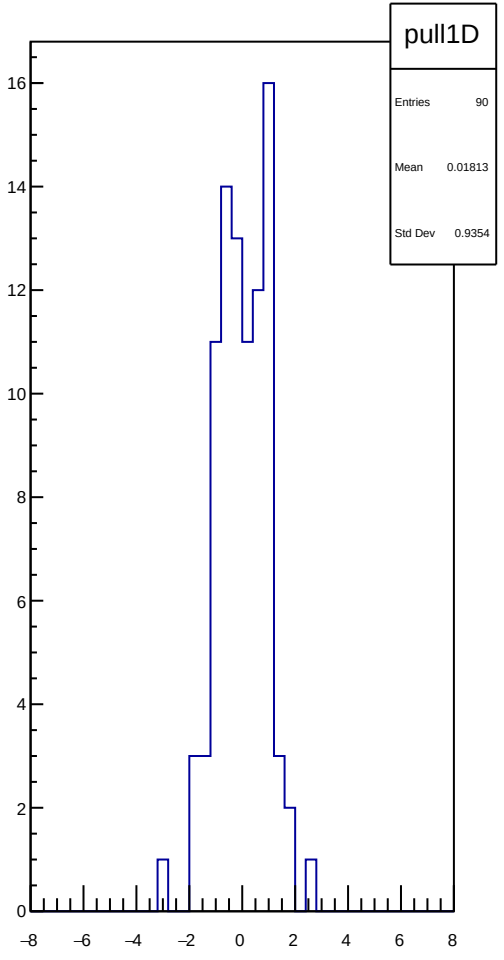

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.696e+04 / 89
p0 176.8 ± 0.1344
240
220
200
180
160
140
120

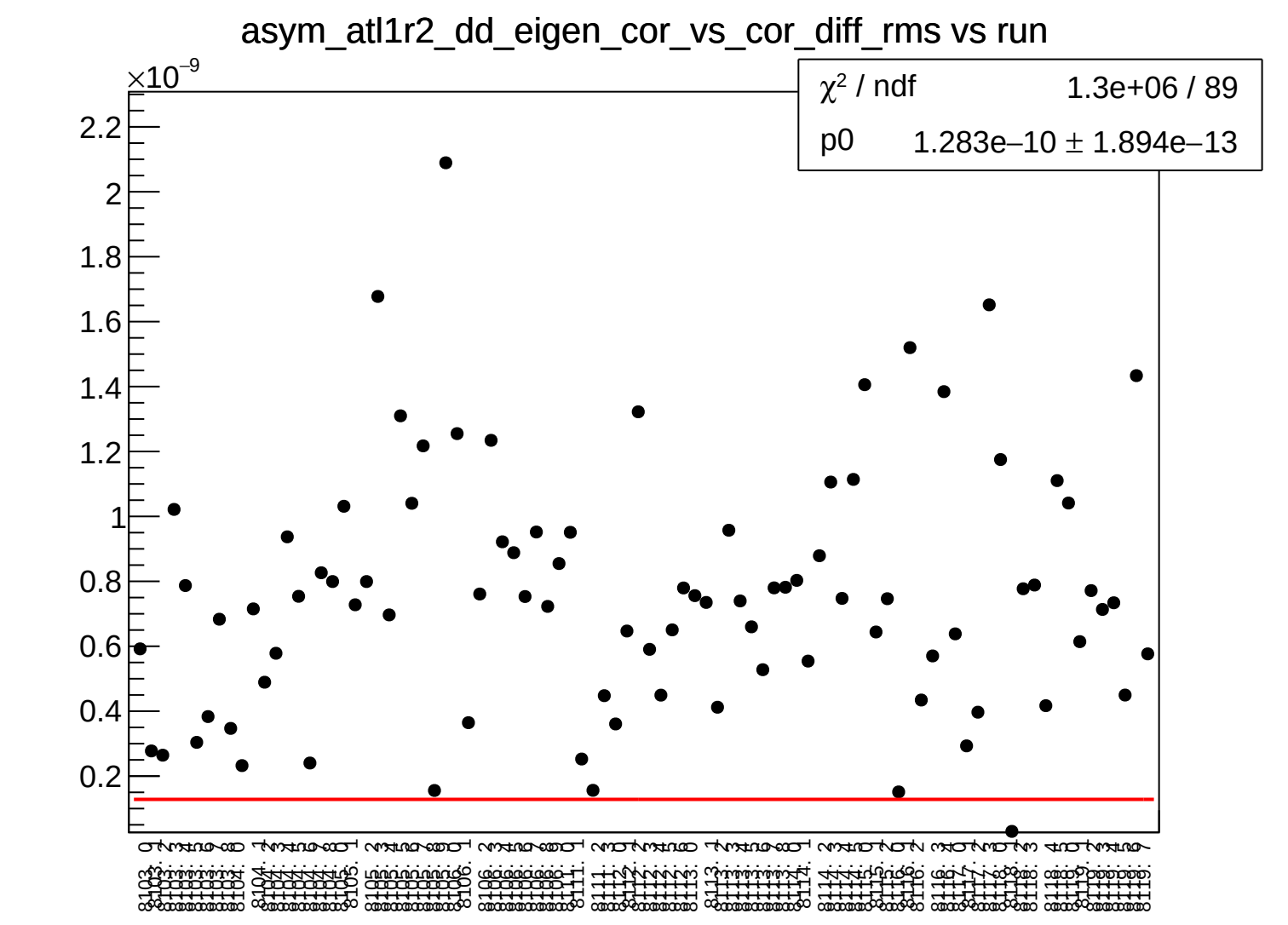

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.53 / 89
p0 −0.2892 ± 0.19
pull
Entries 90
Mean 20.47
Std Dev 192.1

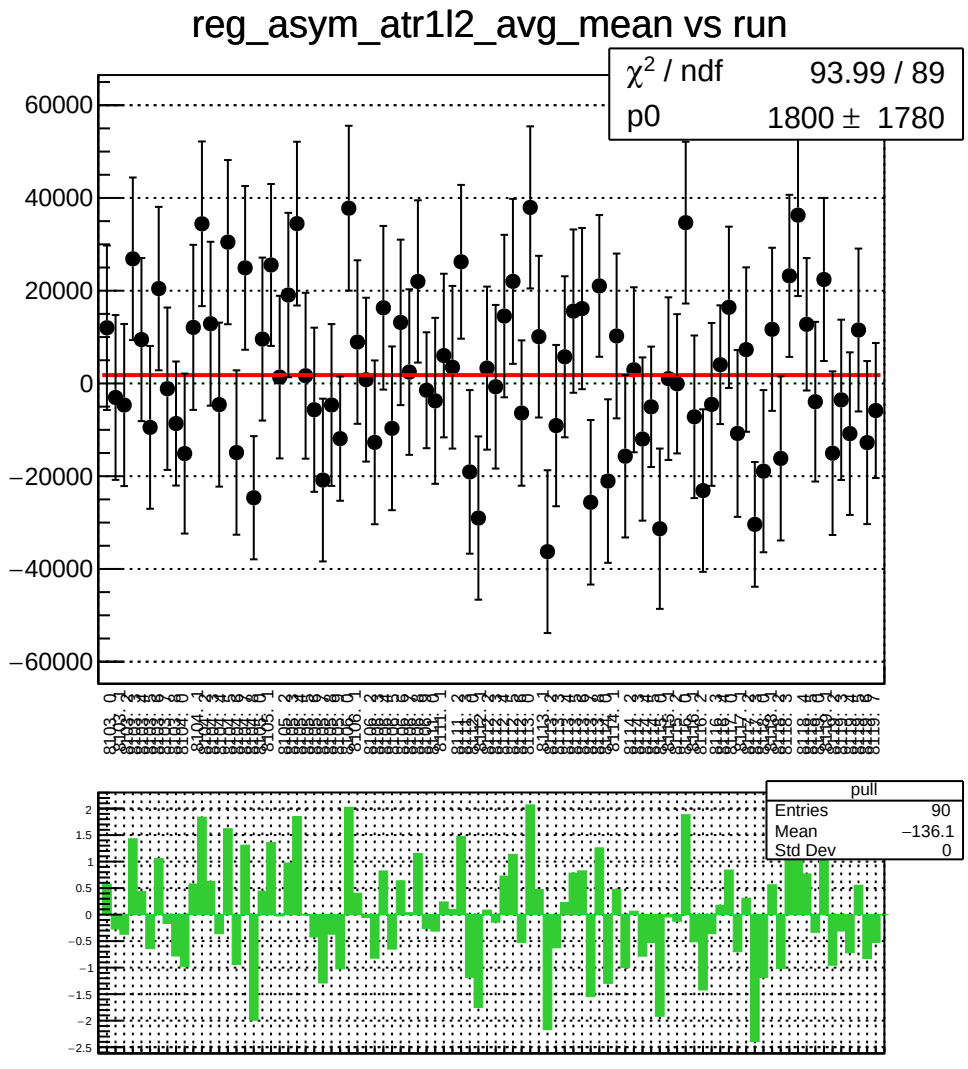

pull1D
Entries 90
Mean −0.001255
Std Dev 0.8268

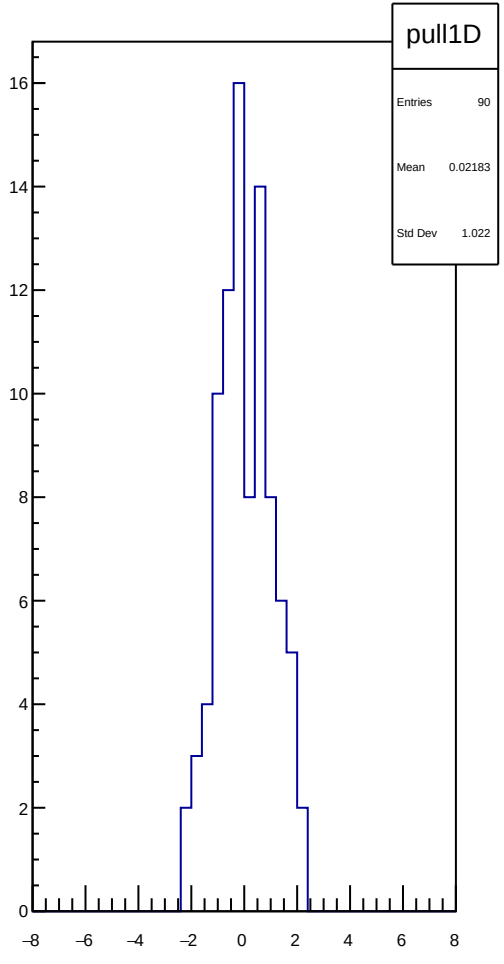

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.696e+04 / 89
p0 176.8 ± 0.1344
240
220
200
180
160
140
120

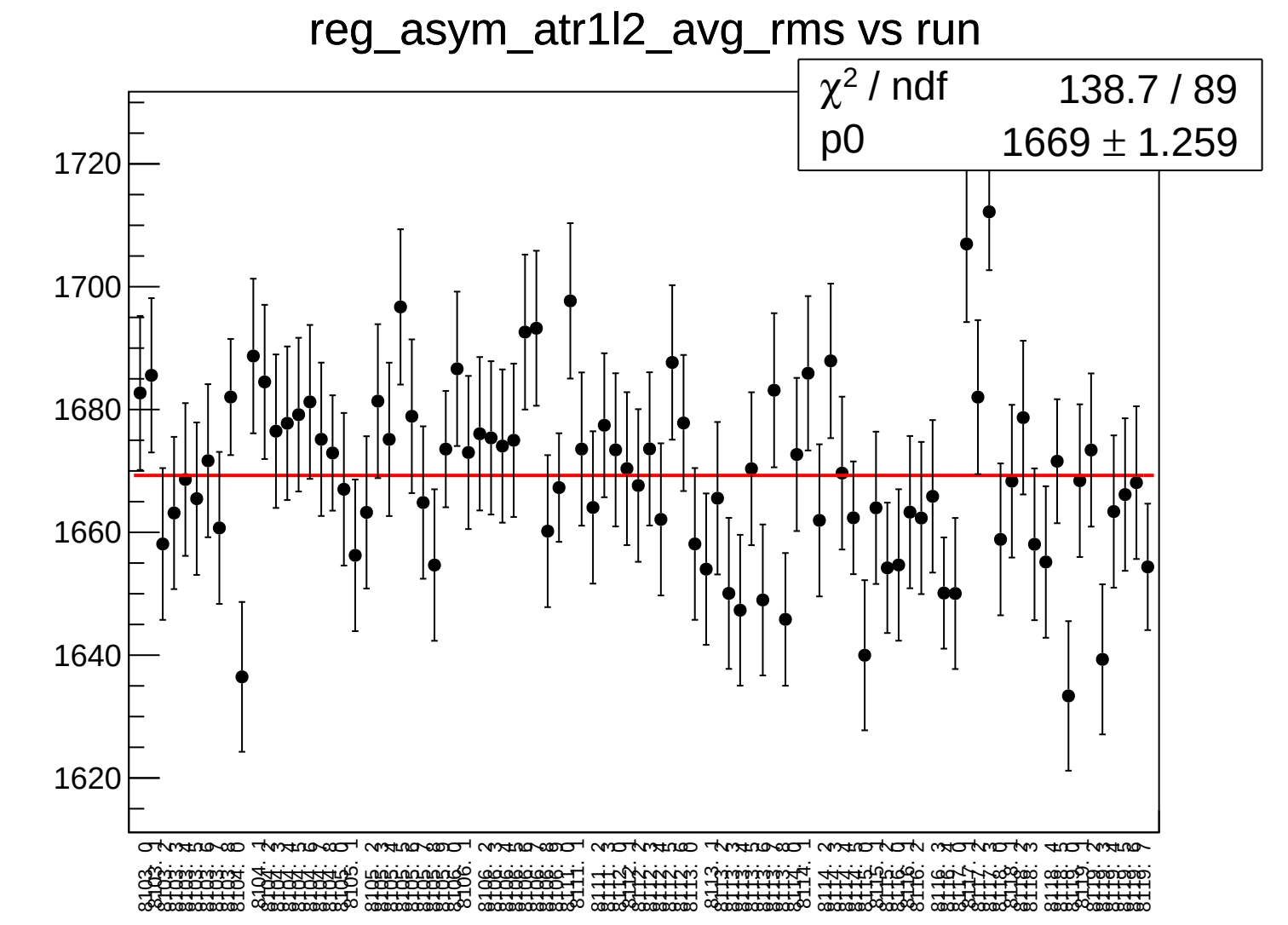

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.78 / 89
p0 8.432e−14 ± 2.678e−13
pull
Entries 90
Mean 193.9
Std Dev 0

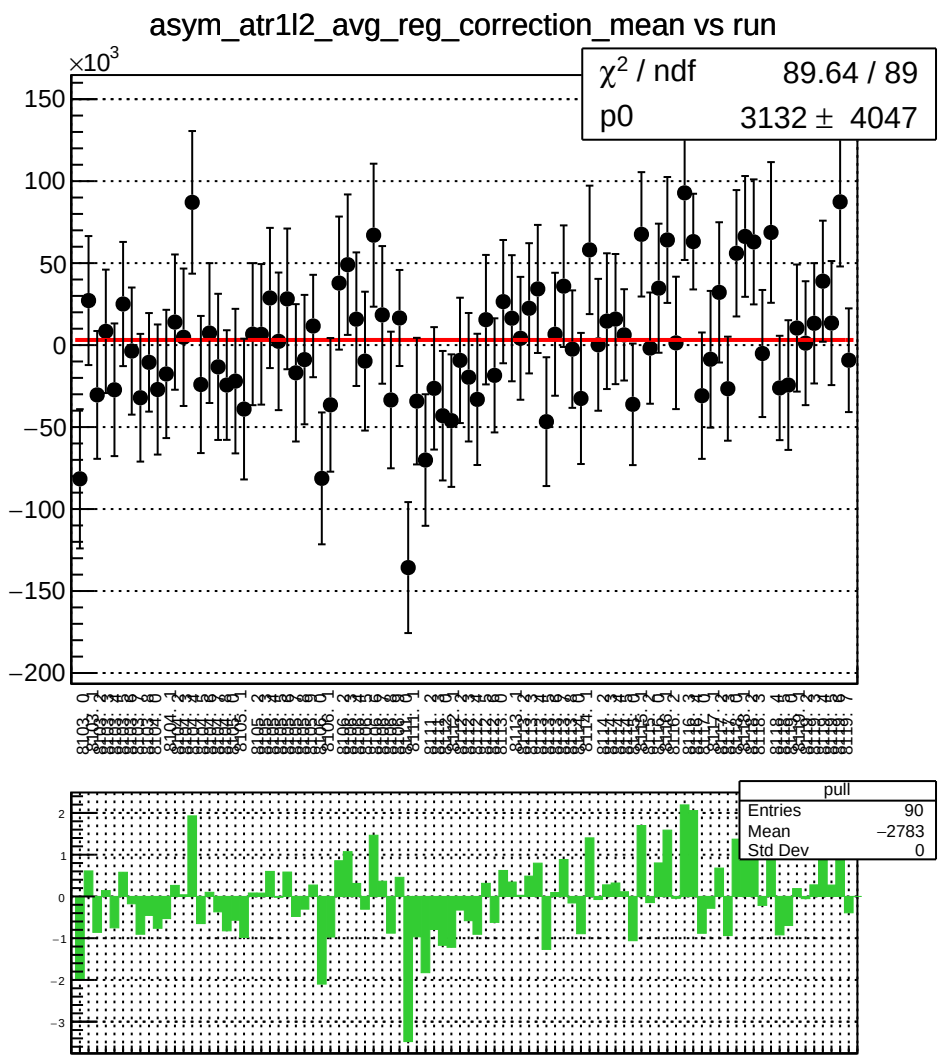

pull1D
Entries 90
Mean 0.01813
Std Dev 0.9354

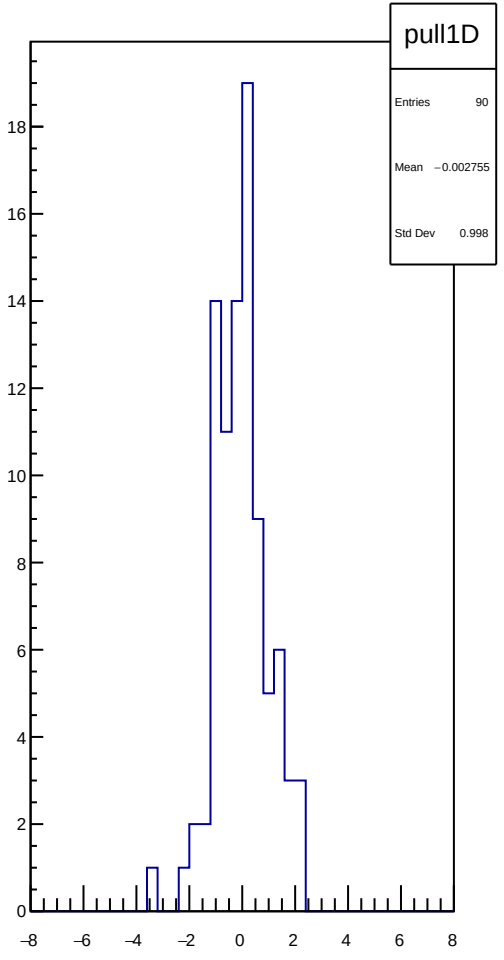

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.3e+06 / 89
p0 1.283e−10 ± 1.894e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

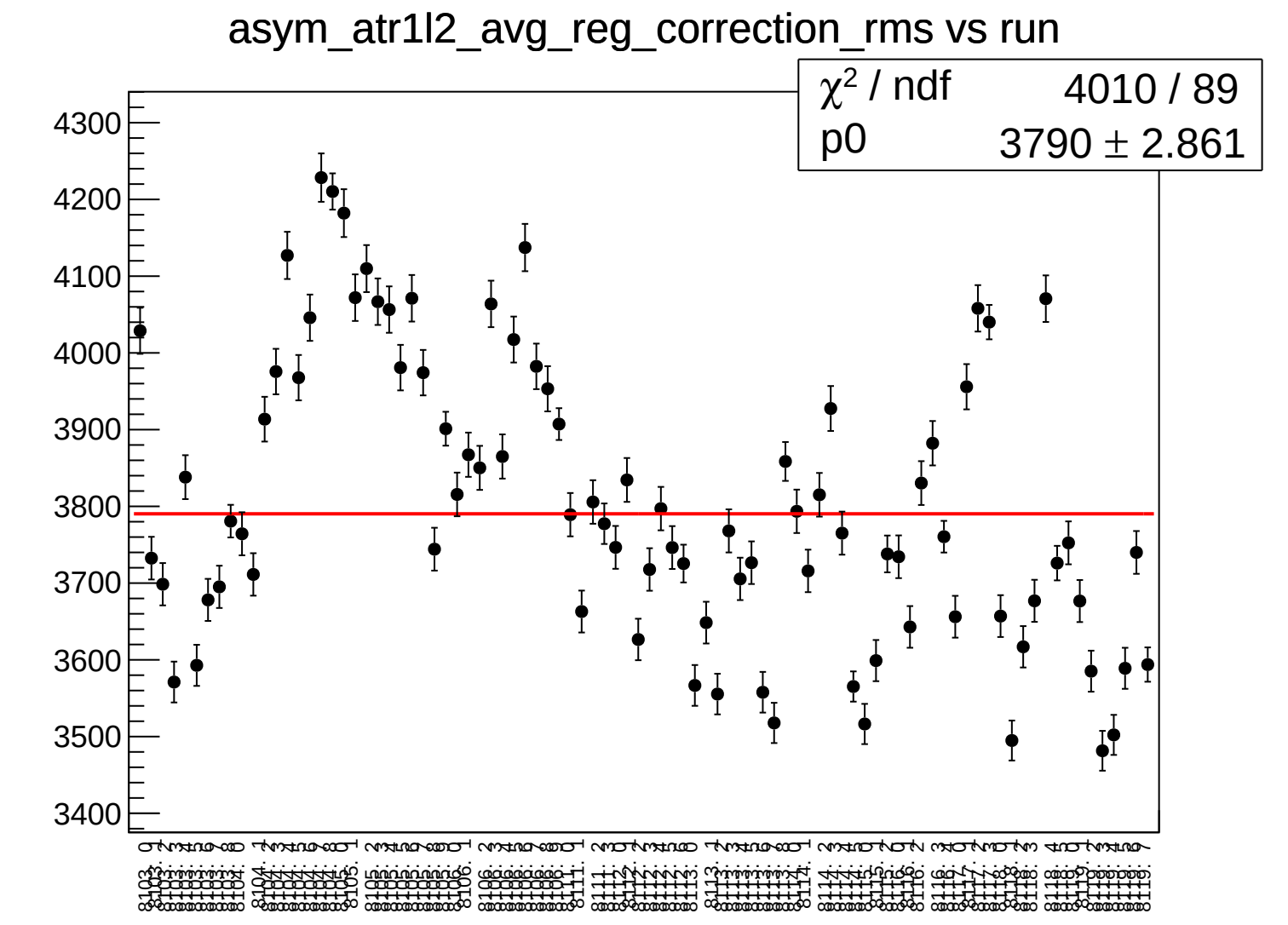

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 93.99 / 89
p0 1800 ± 1780
pull
Entries 90
Mean −136.1
Std Dev 0

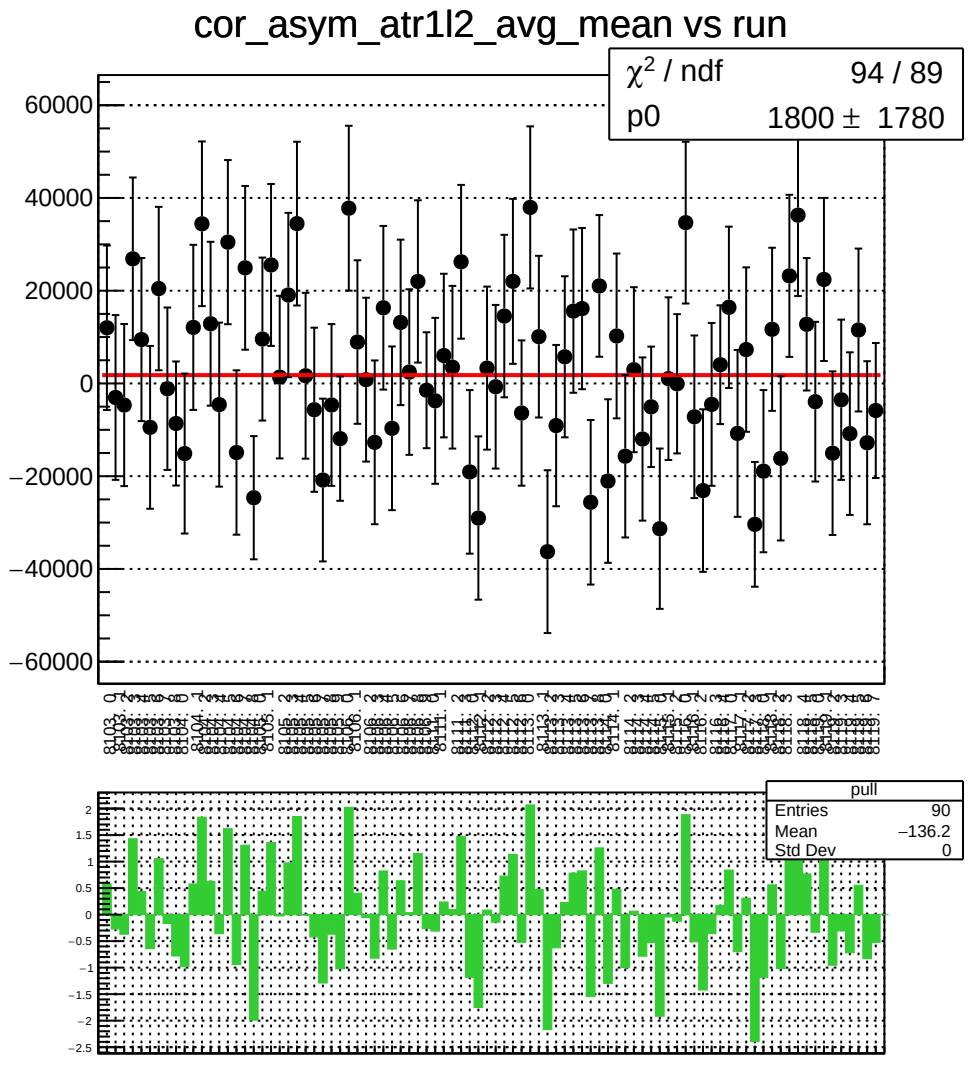

pull1D
Entries 90
Mean 0.02183
Std Dev 1.022

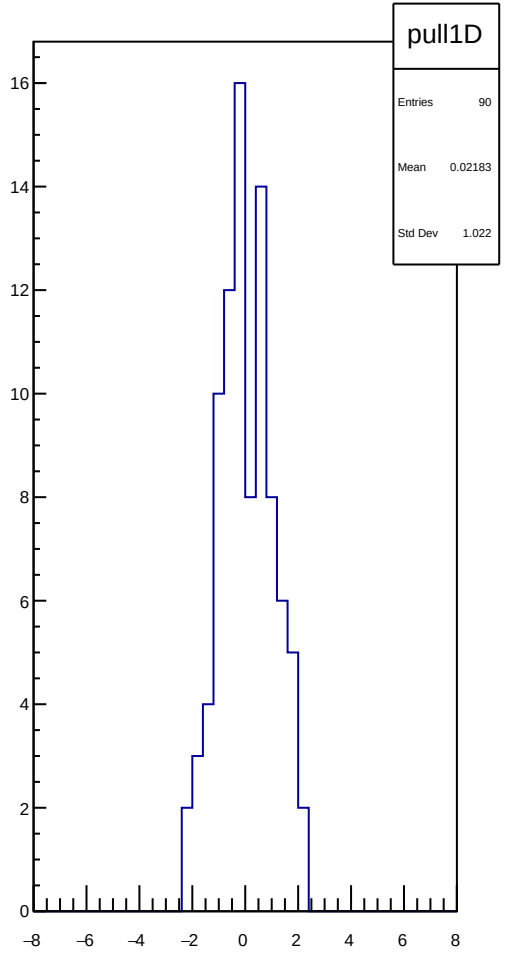

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 138.7 / 89
p0 1669 ± 1.259
1720
1700
1680
1660
1640
1620

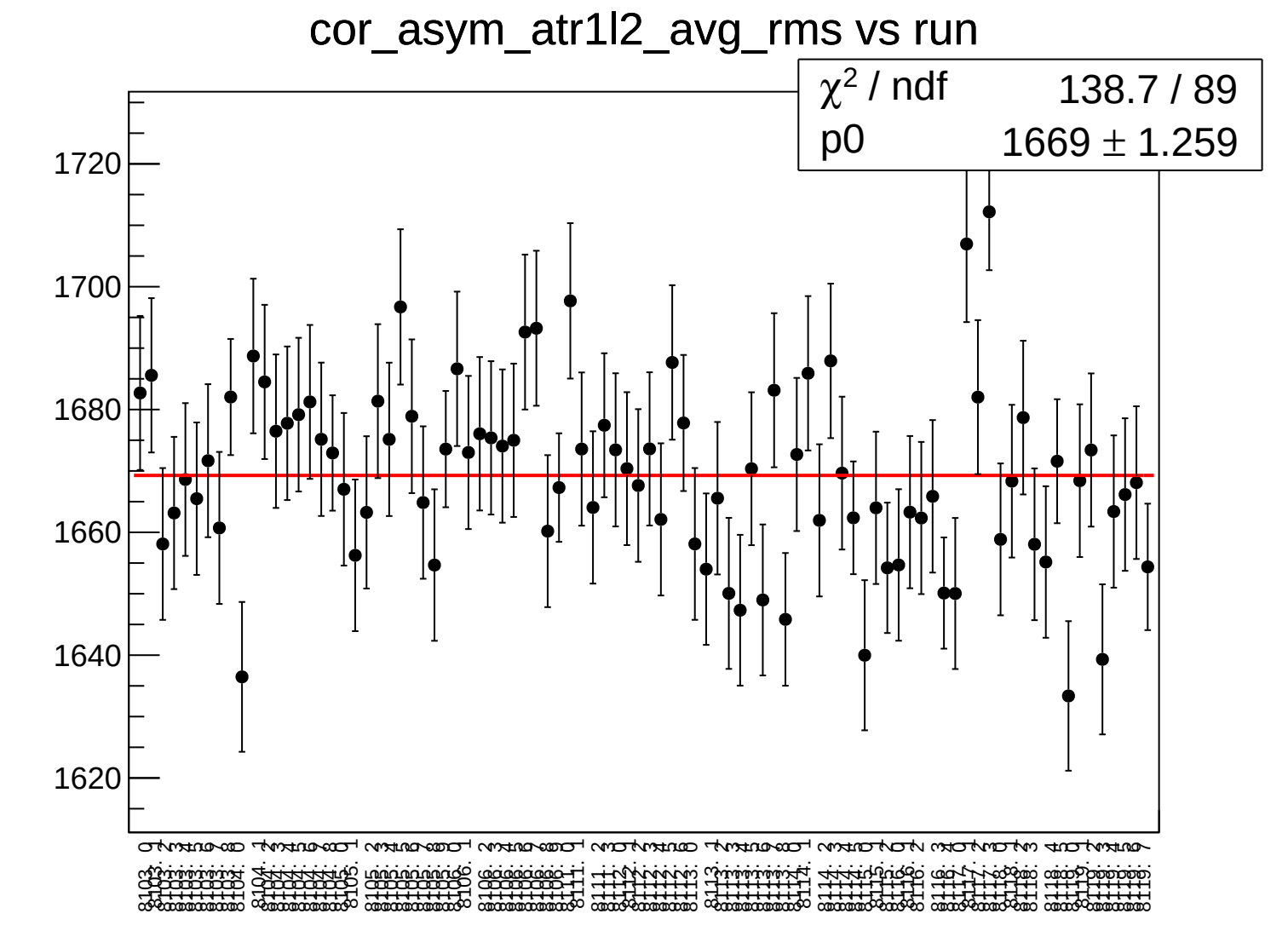

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.64 / 89
p0 3132 ± 4047
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −2783
Std Dev 0
2
1
0
−1
−2
−3

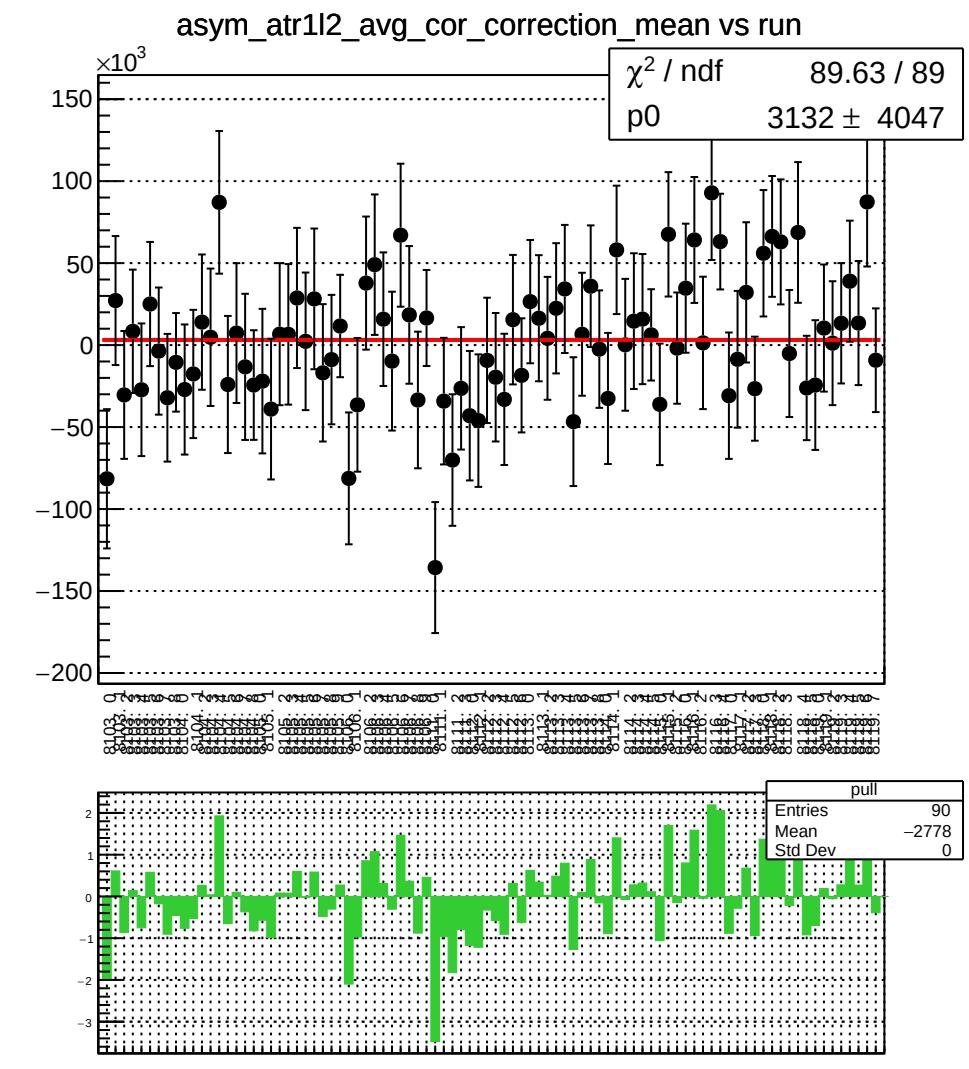

pull1D
Entries 90
Mean −0.002755
Std Dev 0.998
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

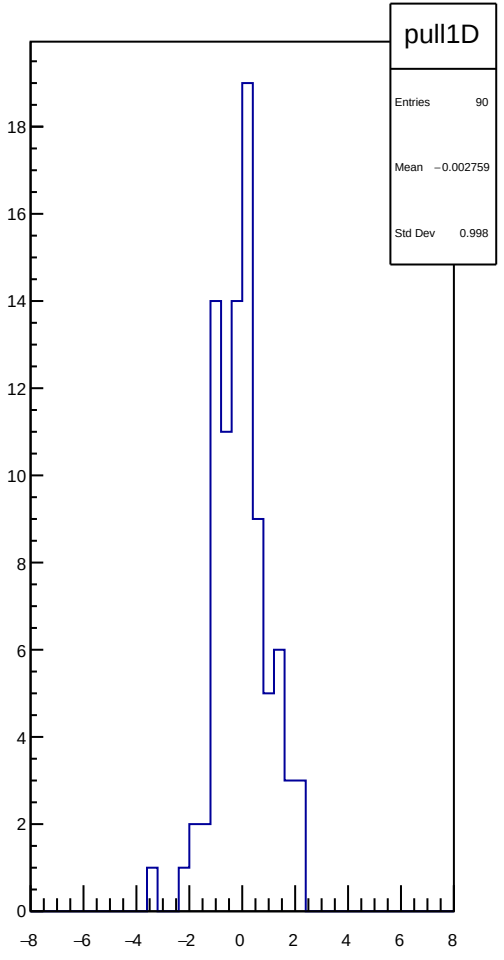

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4010 / 89
p0 3790 ± 2.861
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400


cor_asym_atr1l2_avg_mean vs run
χ² / ndf 94 / 89
p0 1800 ± 1780
pull
Entries 90
Mean −136.2
Std Dev 0


pull1D
Entries 90
Mean 0.02183
Std Dev 1.022


cor_asym_atr1l2_avg_rms vs run
χ² / ndf 138.7 / 89
p0 1669 ± 1.259
1720
1700
1680
1660
1640
1620


asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.63 / 89
p0 3132 ± 4047
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −2778
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean −0.002759
Std Dev 0.998
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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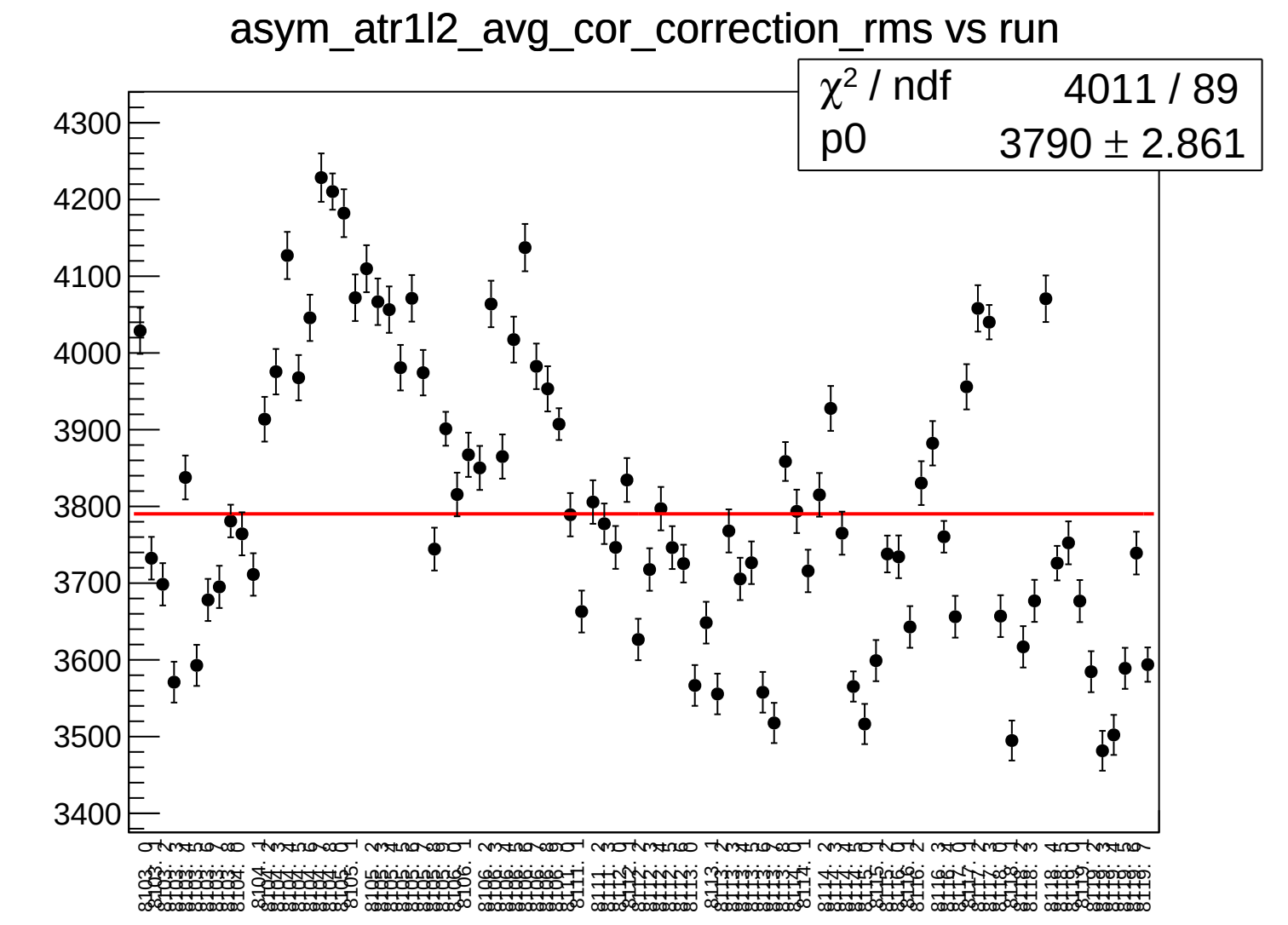
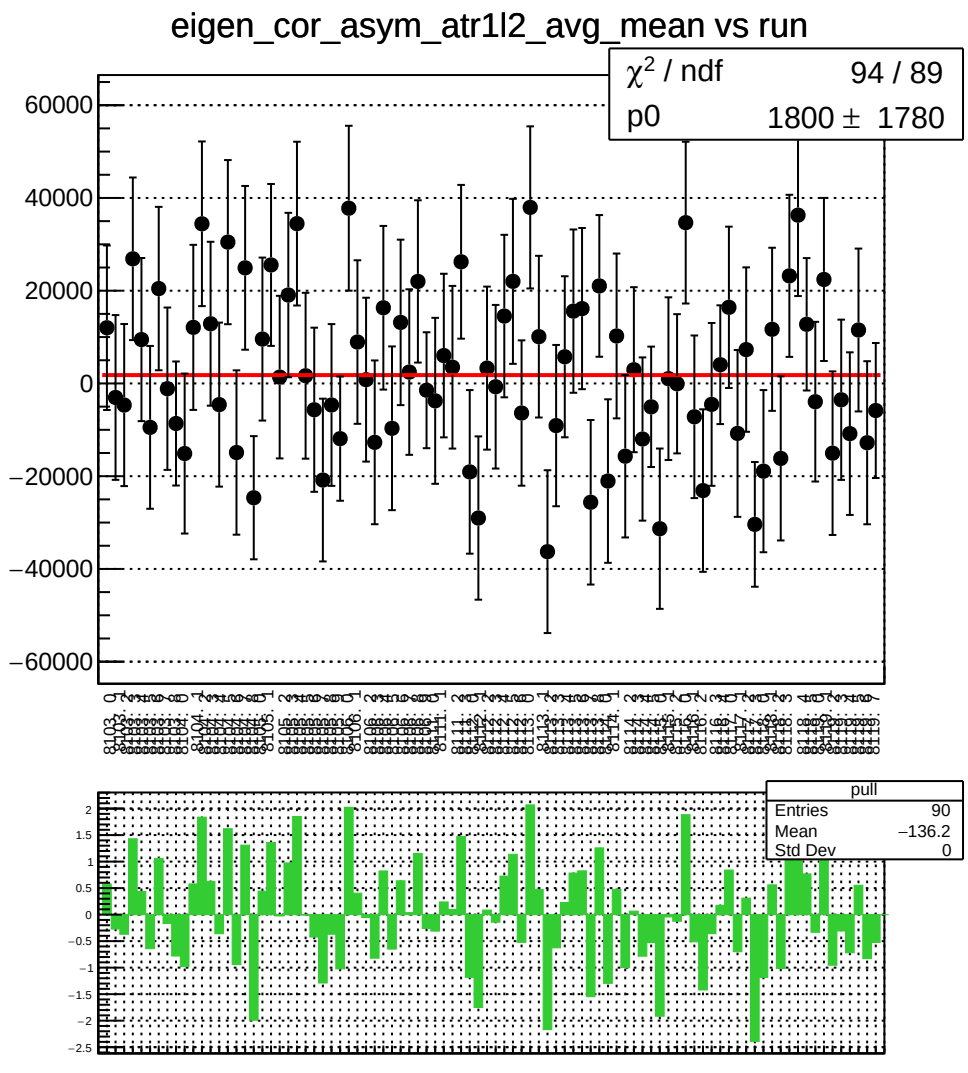
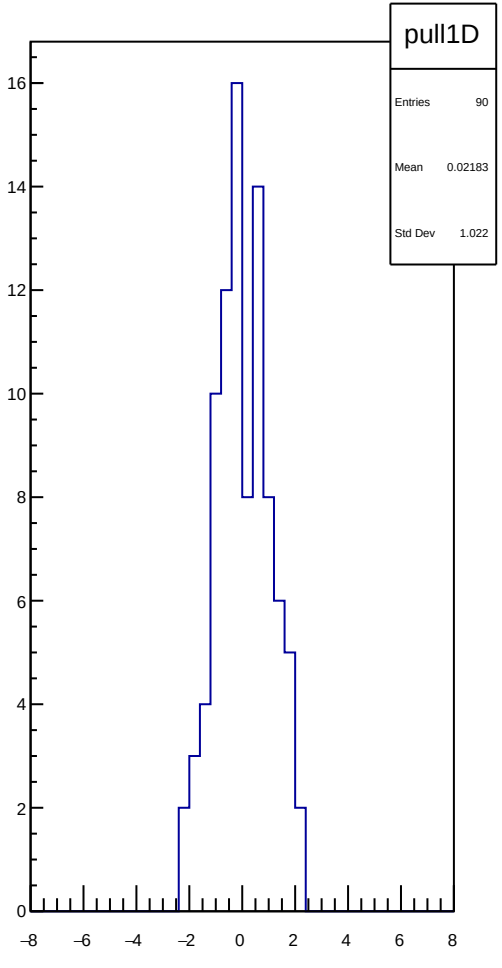
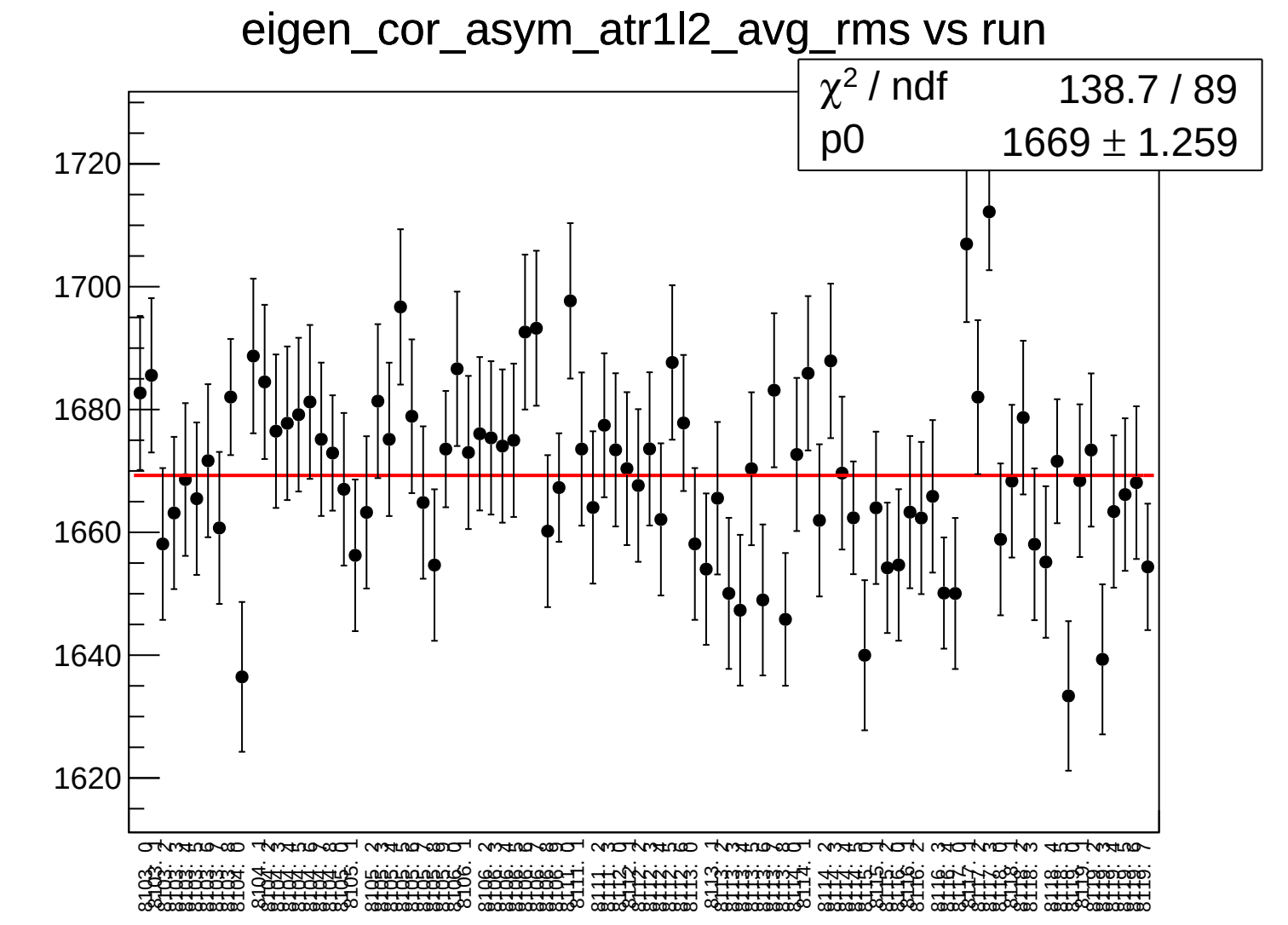
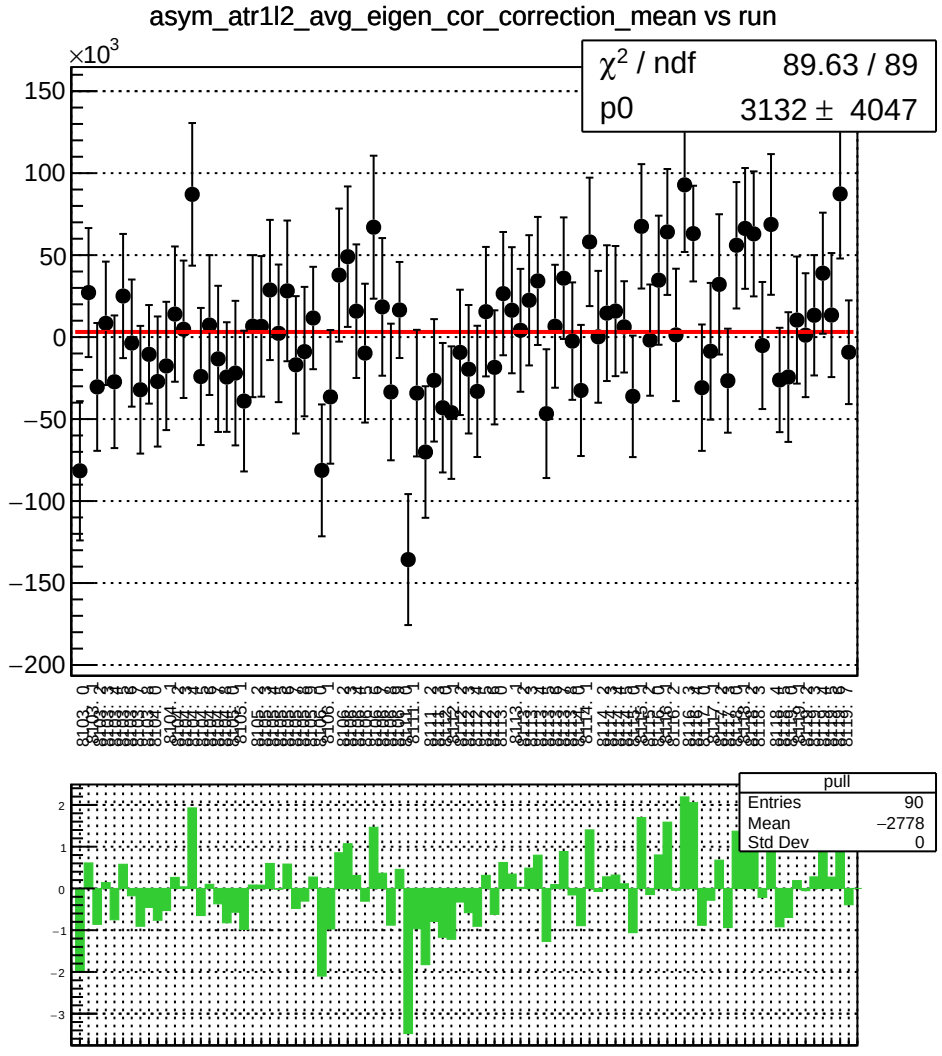
0
2
4
6
8

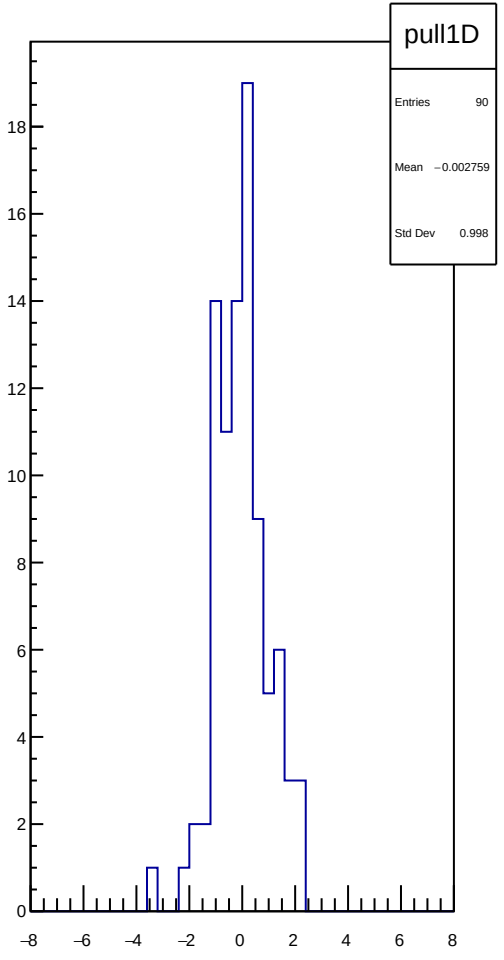

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4011 / 89
p0 3790 ± 2.861
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400

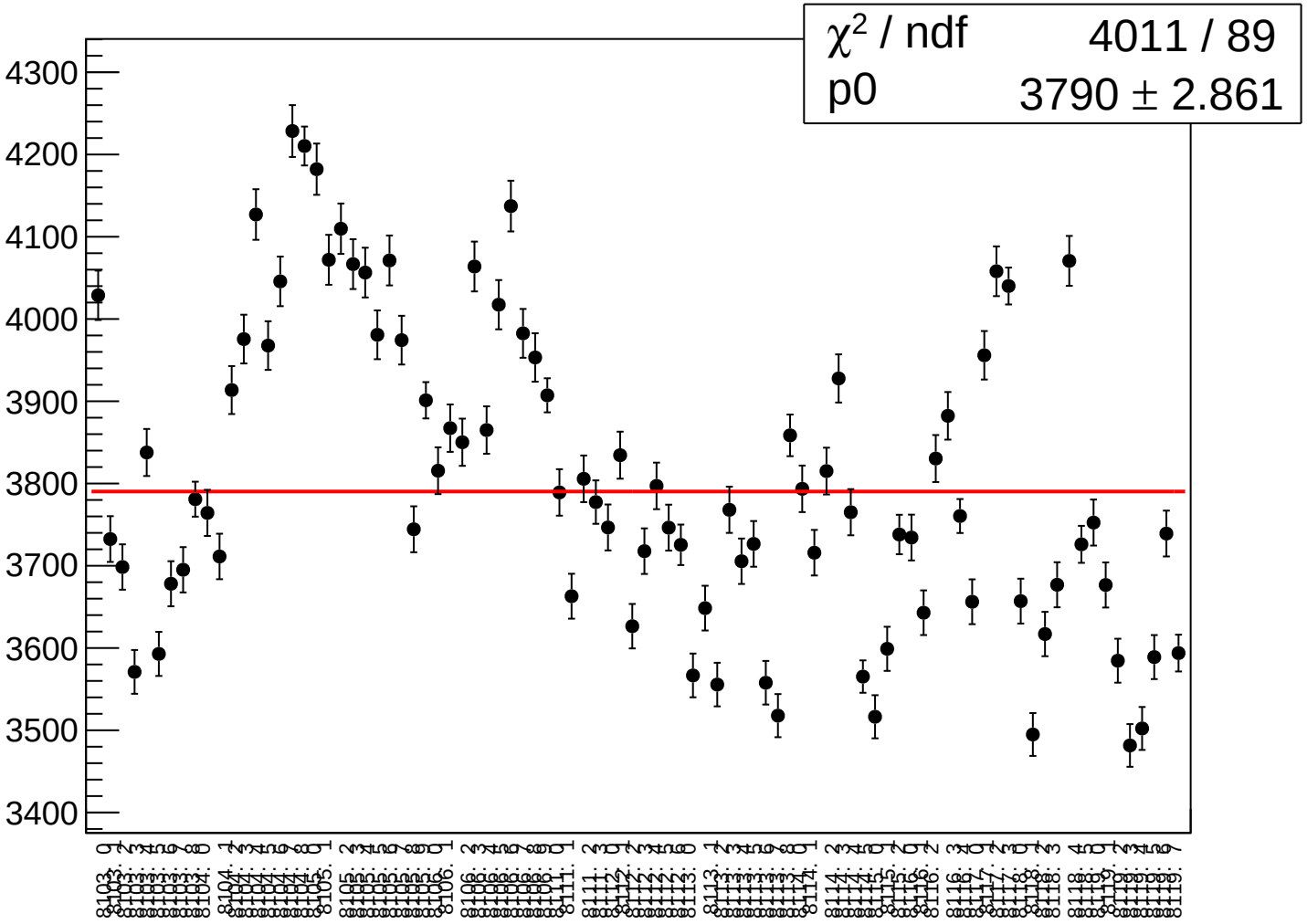

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 94 / 89
p0 1800 ± 1780
pull
Entries 90
Mean −136.2
Std Dev 0

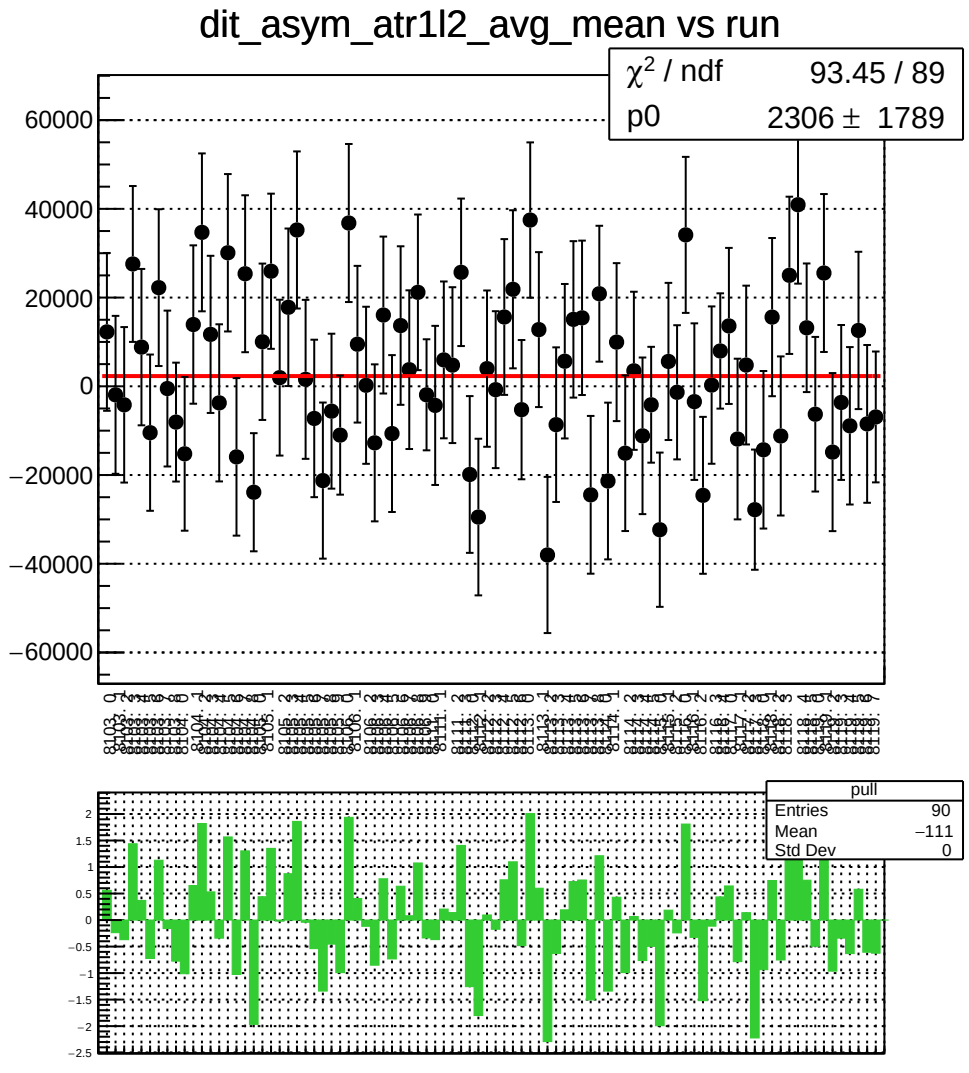

pull1D
Entries 90
Mean 0.02183
Std Dev 1.022

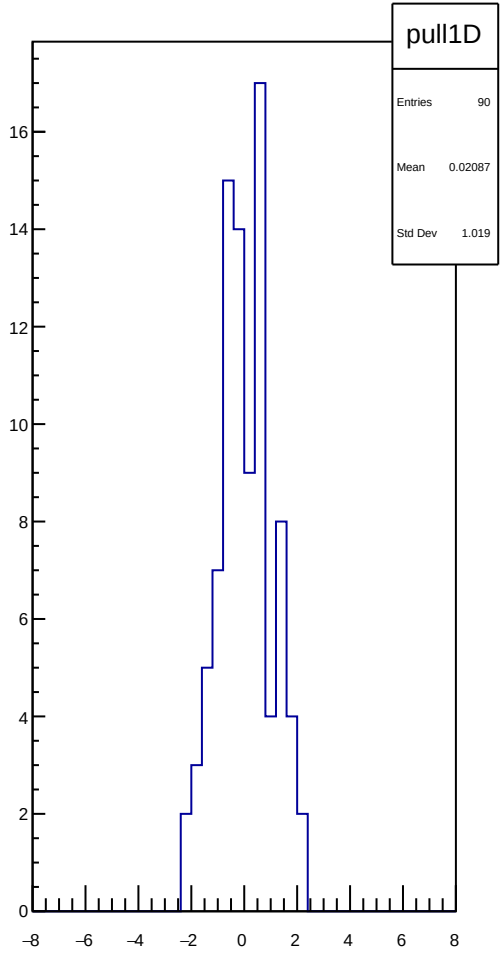

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 138.7 / 89
p0 1669 ± 1.259
1720
1700
1680
1660
1640
1620


asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.63 / 89
p0 3132 ± 4047
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean −2778
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean −0.002759
Std Dev 0.998
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 4011 / 89
p0 3790 ± 2.861
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400


dit_asym_atr1l2_avg_mean vs run
χ² / ndf 93.45 / 89
p0 2306 ± 1789
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.02087
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
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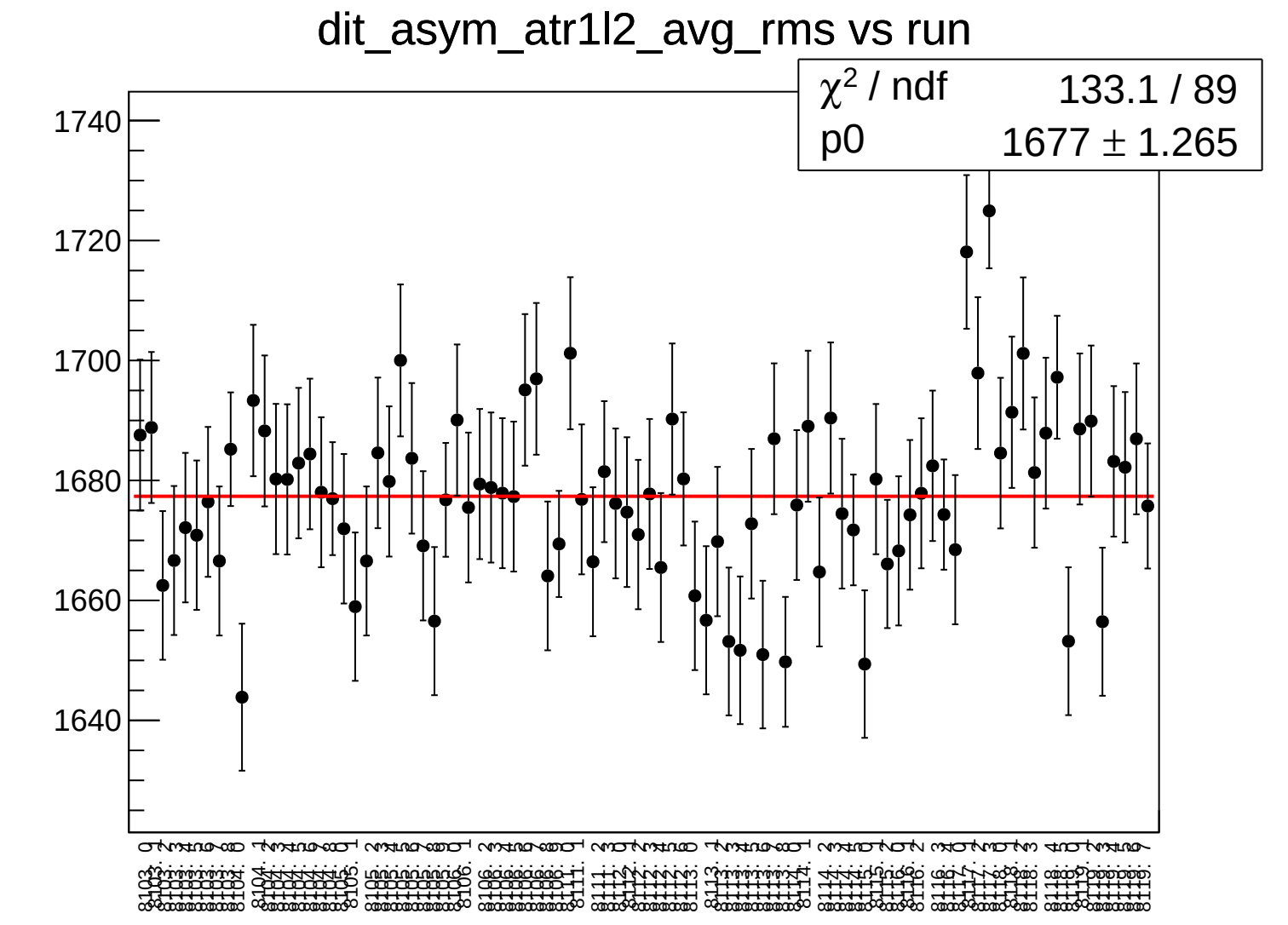
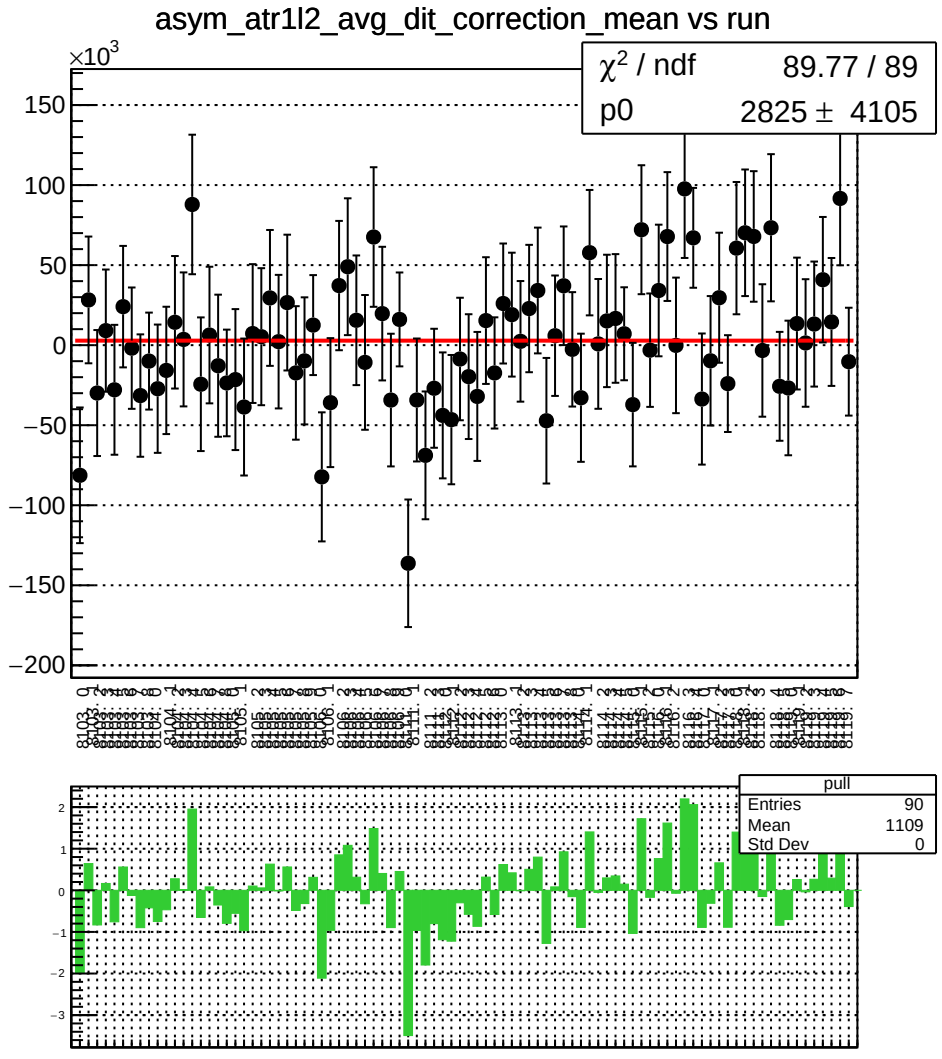
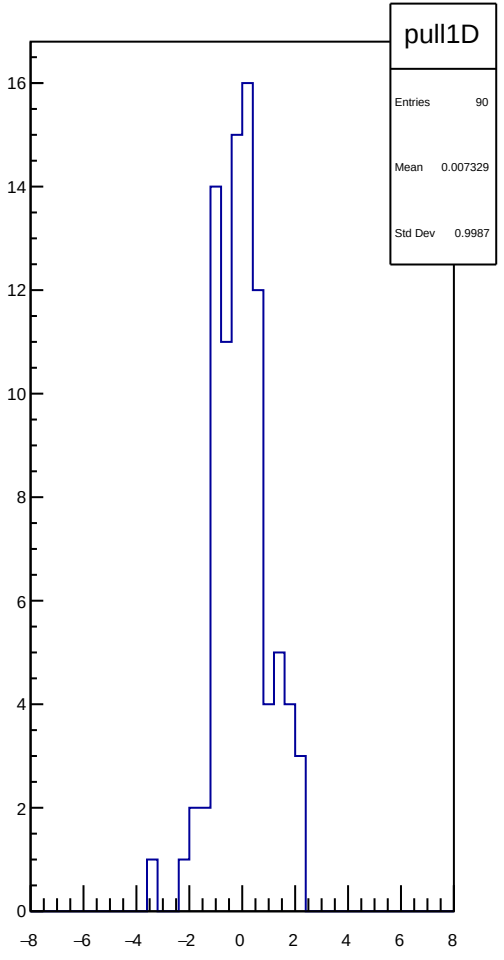
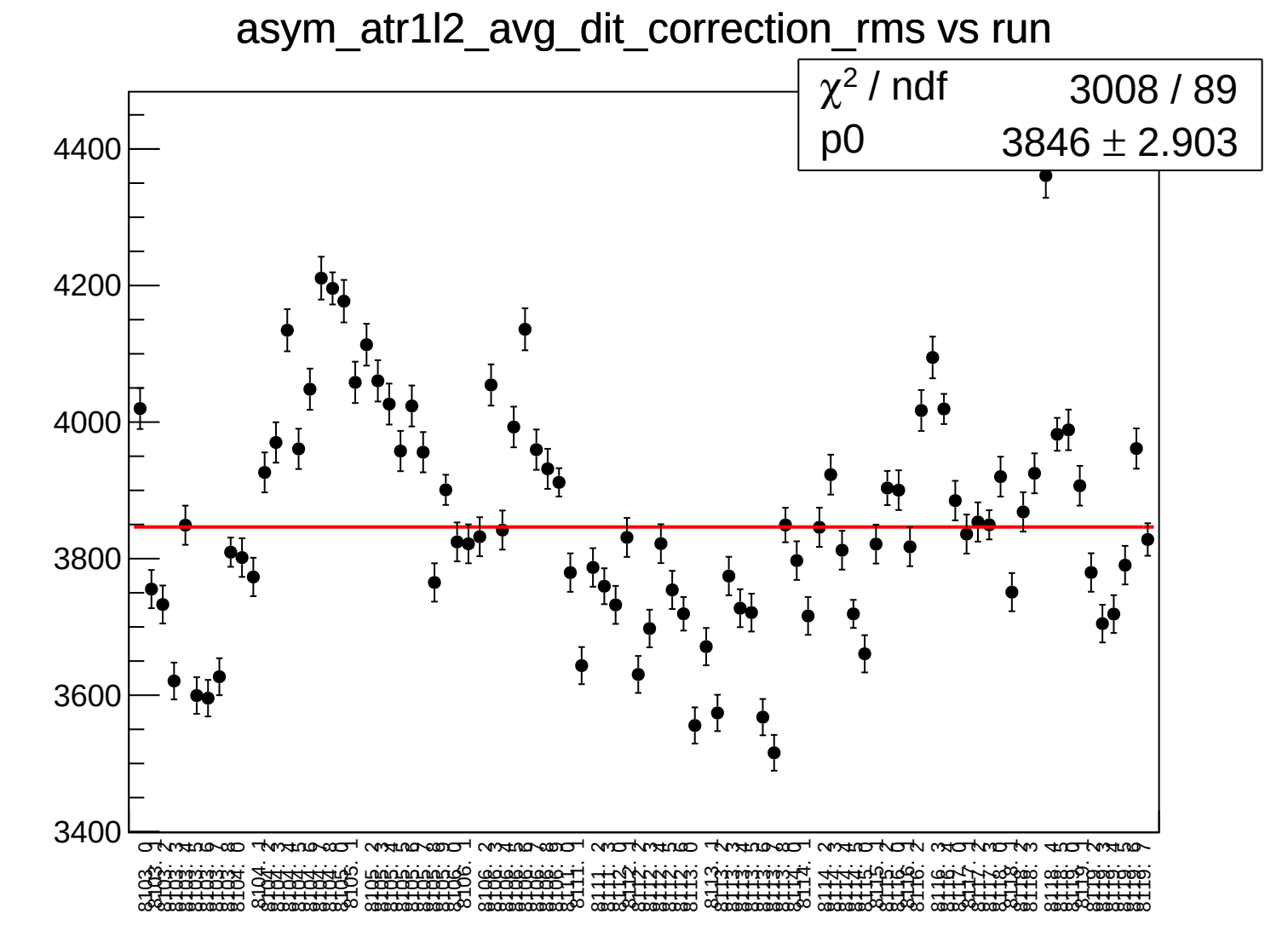
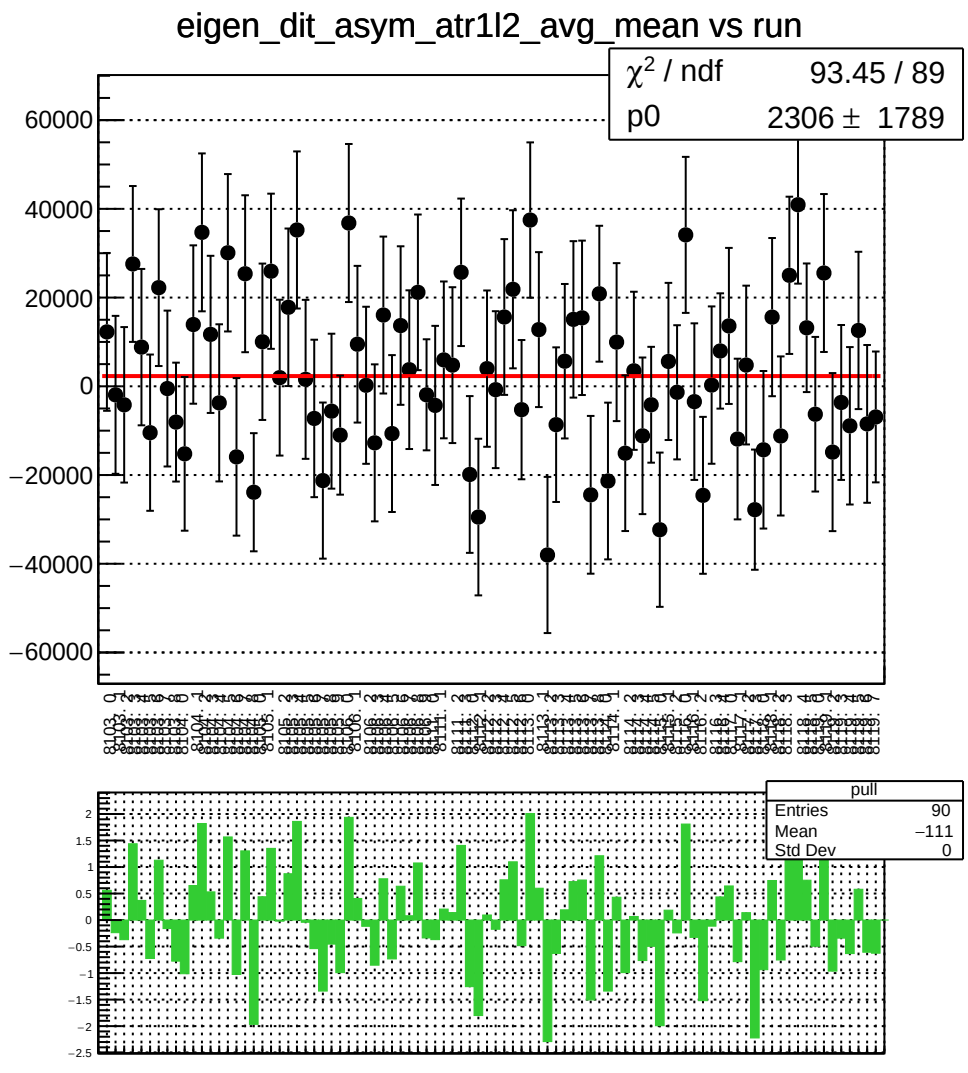
0
2
4
6
8

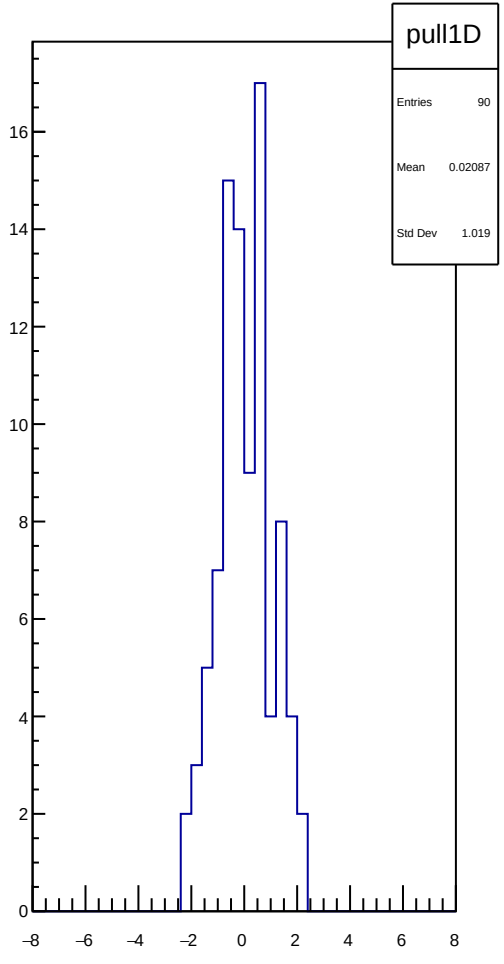

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 133.1 / 89
p0 1677 ± 1.265
1740
1720
1700
1680
1660
1640

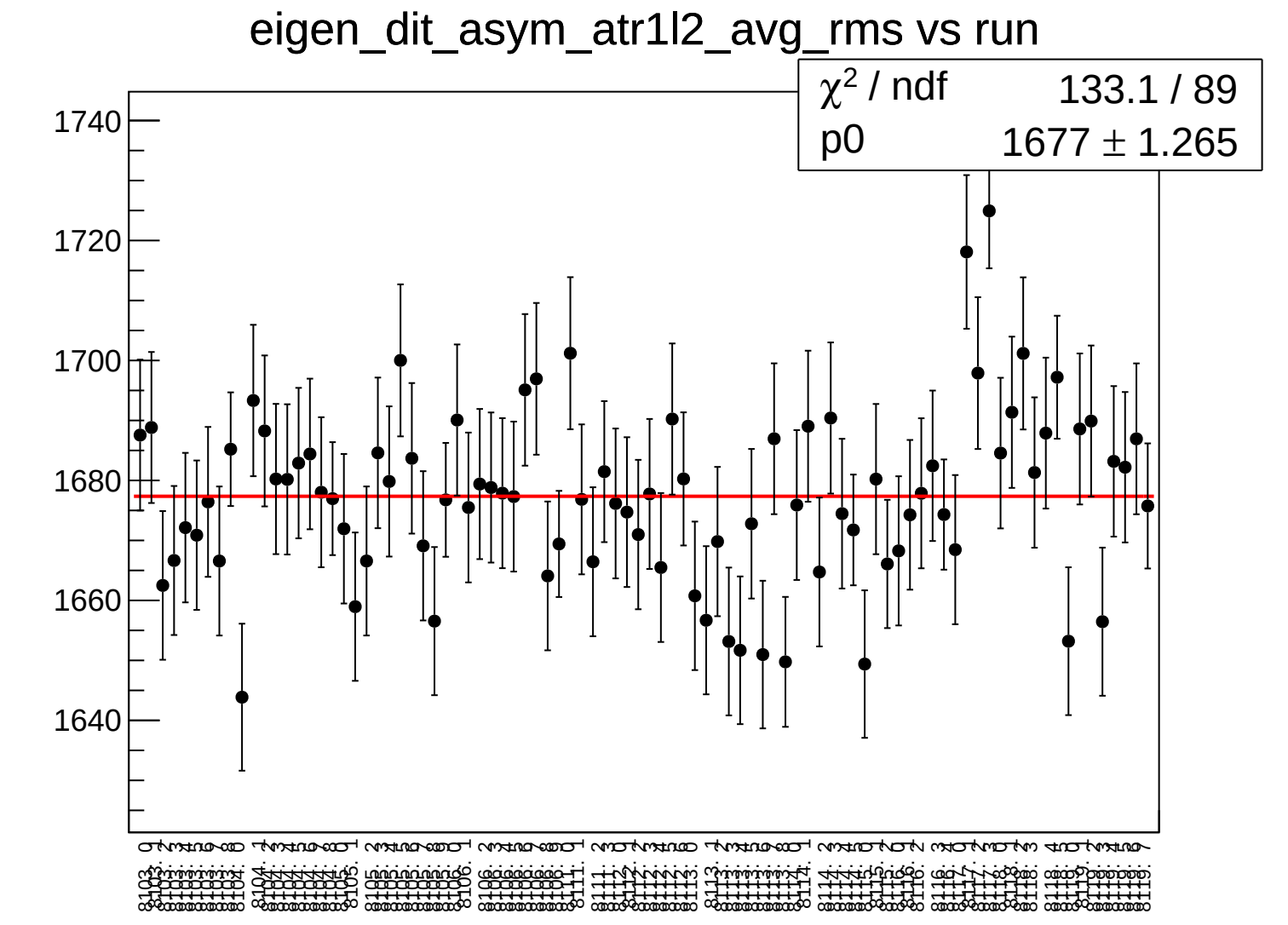

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.77 / 89
p0 2825 ± 4105
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean 1109
Std Dev 0
2
1
0
−1
−2
−3

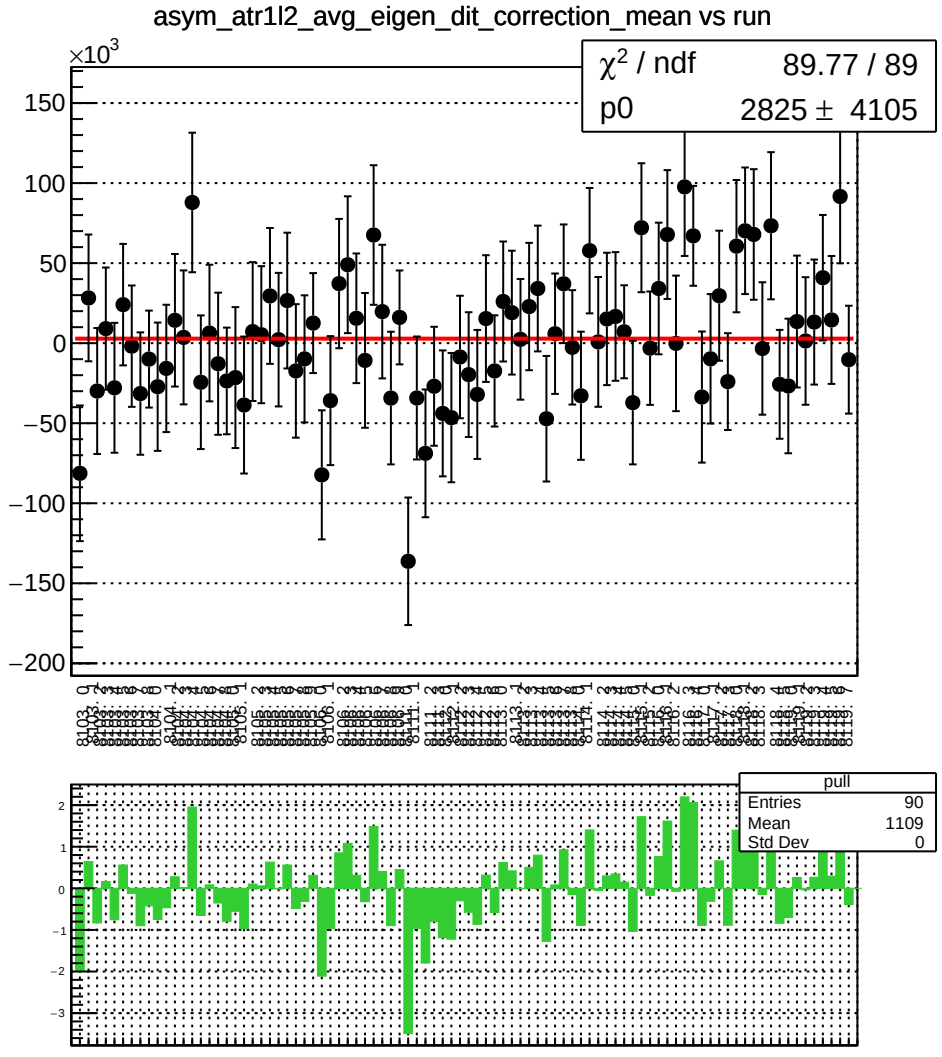

pull1D
Entries 90
Mean 0.007329
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

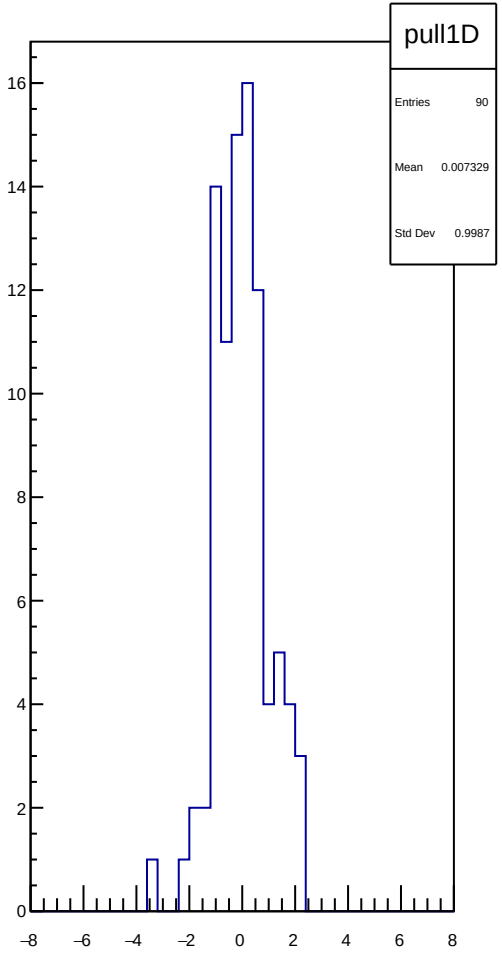

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 3008 / 89
p0 3846 ± 2.903
4400
4200
4000
3800
3600
3400

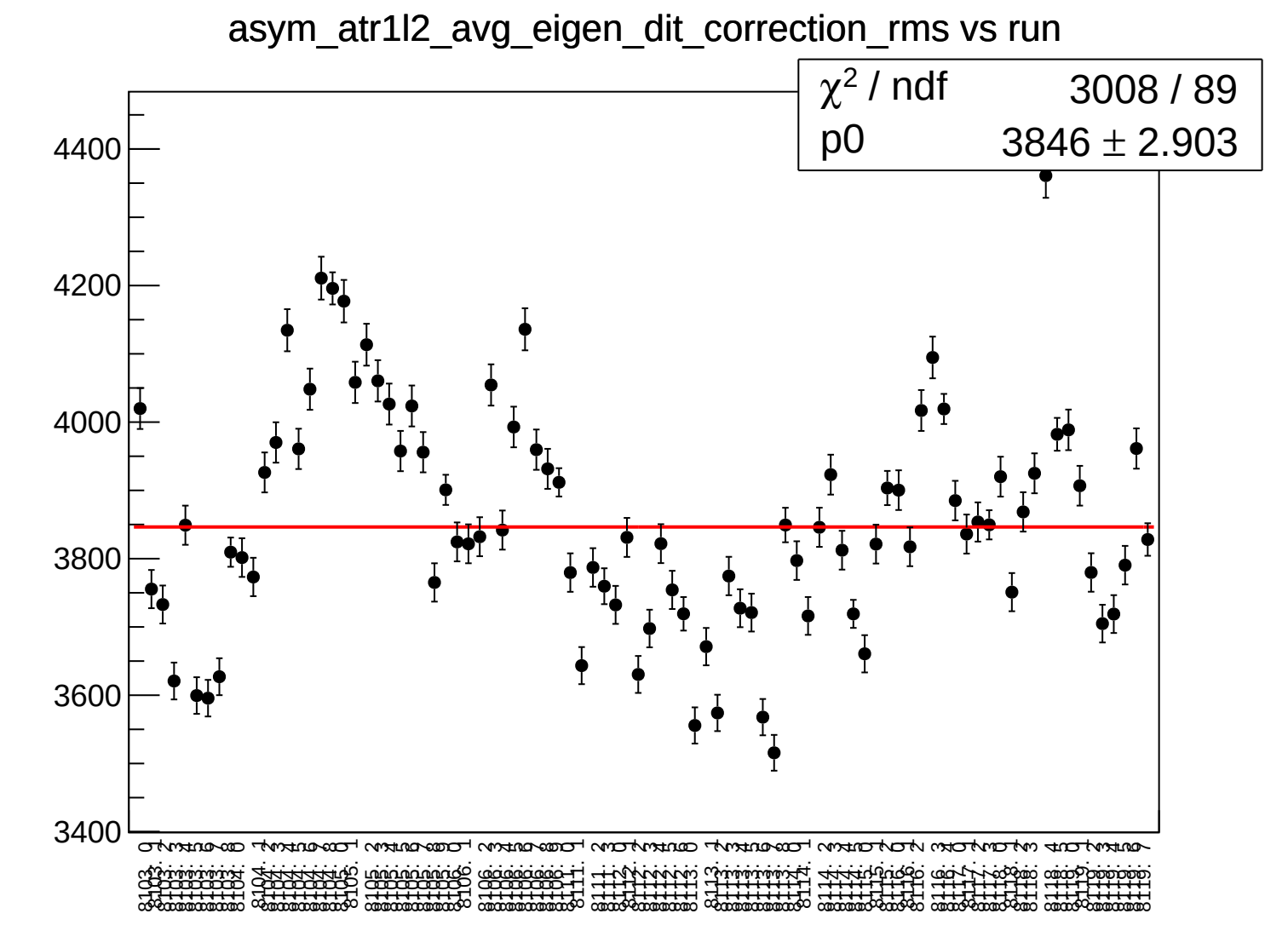

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 93.45 / 89
p0 2306 ± 1789
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

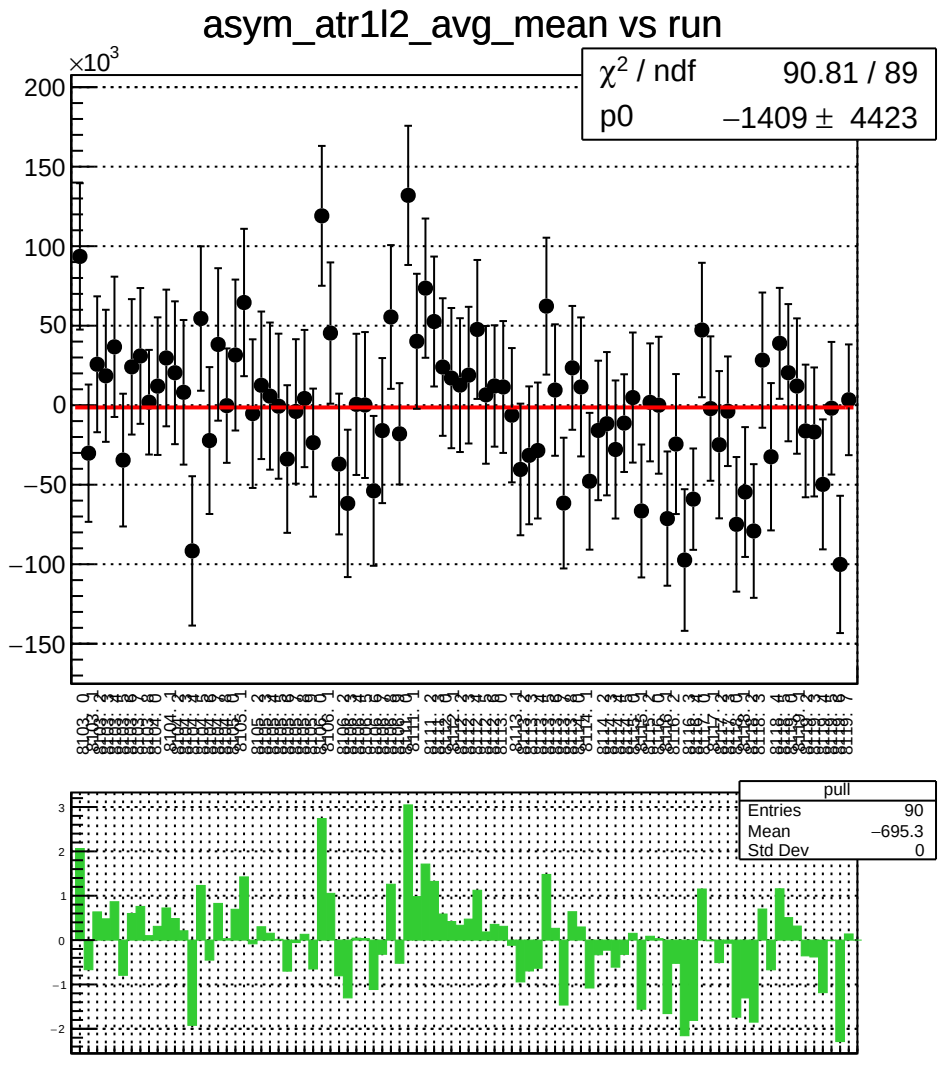

pull1D
Entries 90
Mean 0.02087
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

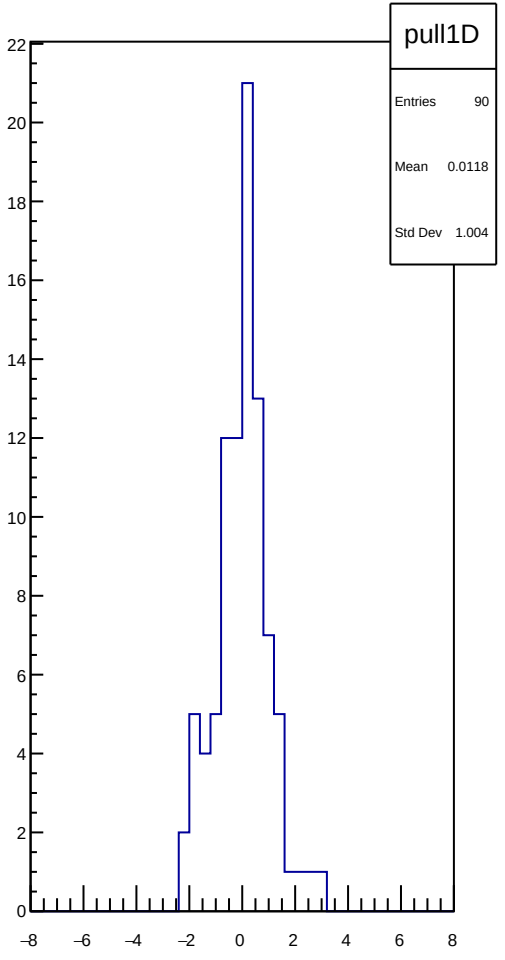

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 133.1 / 89
p0 1677 ± 1.265
1740
1720
1700
1680
1660
1640

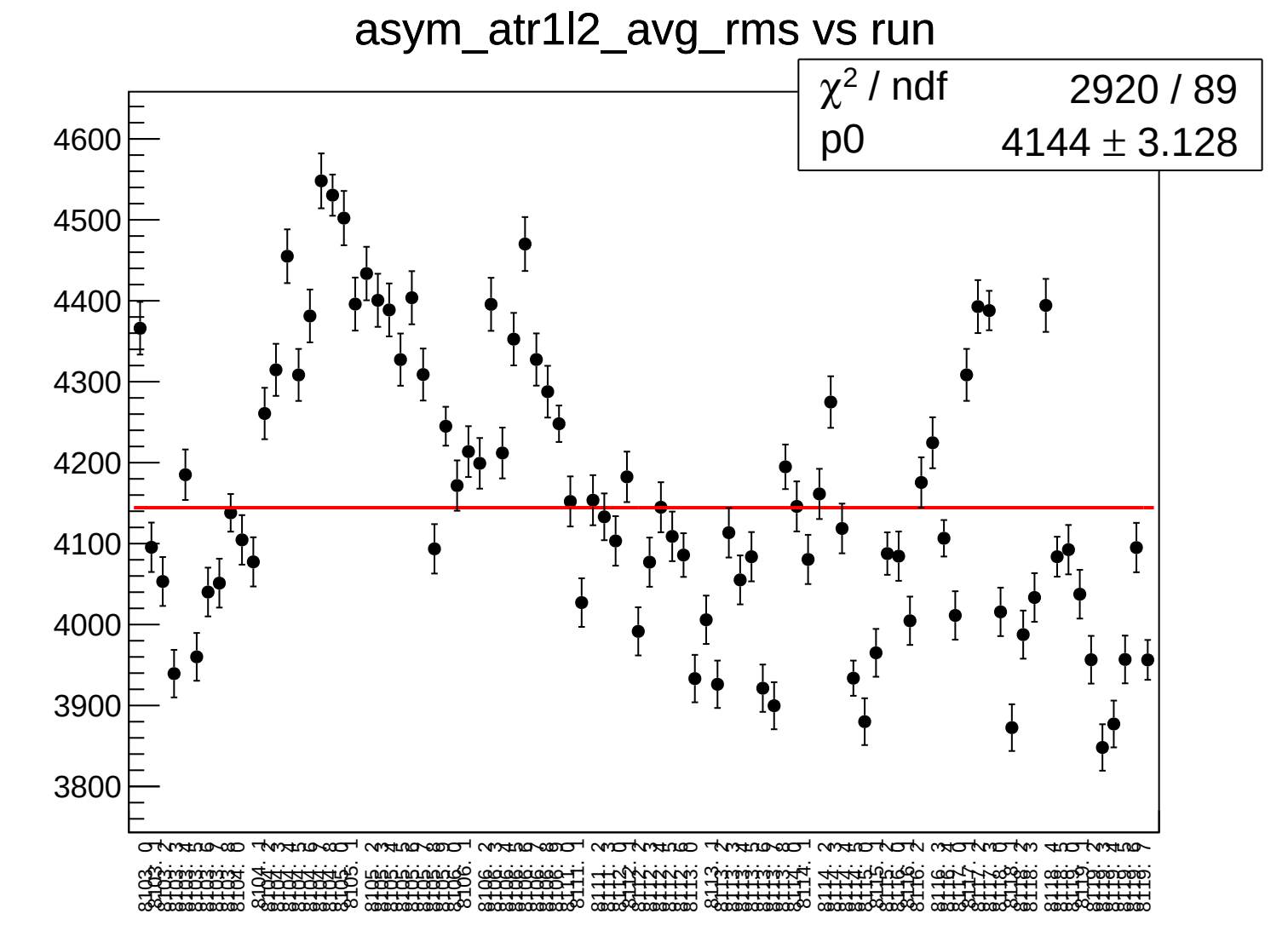

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.77 / 89
p0 2825 ± 4105
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean 1109
Std Dev 0
2
1
0
−1
−2
−3

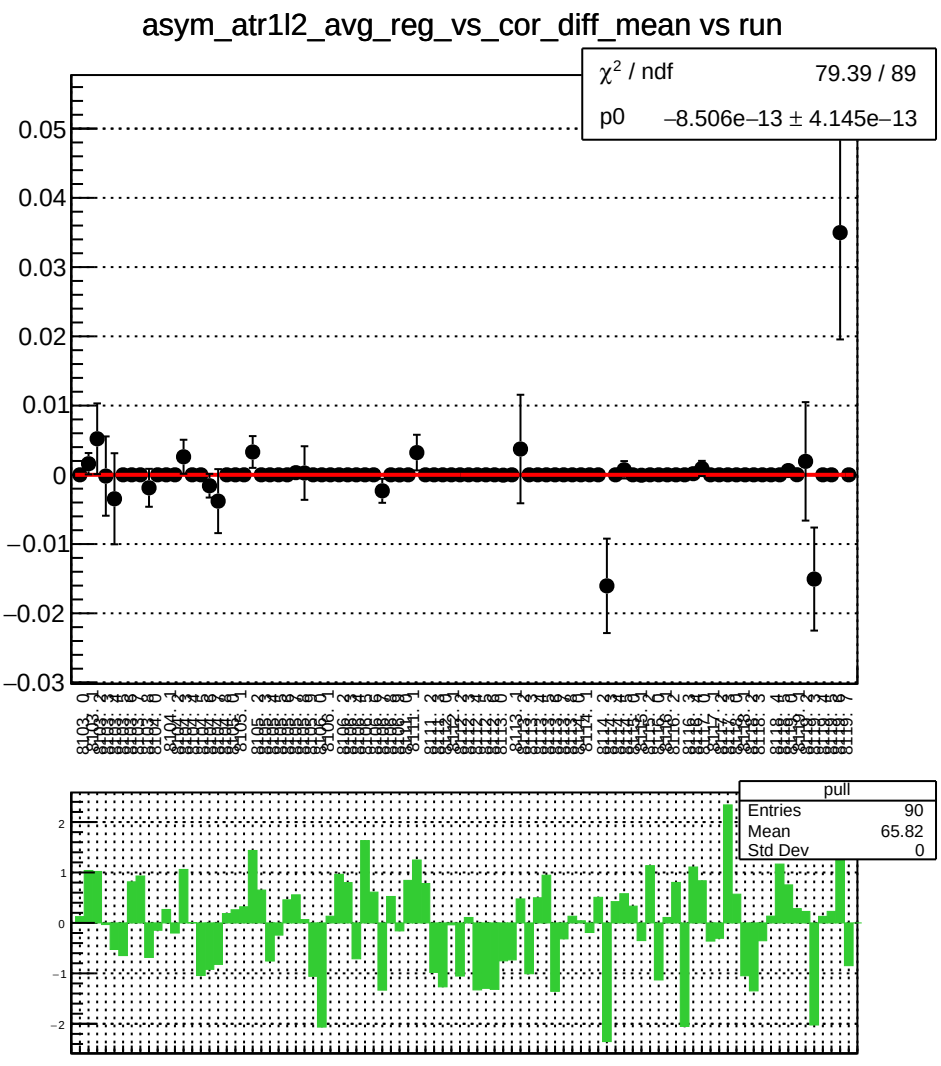

pull1D
Entries 90
Mean 0.007329
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

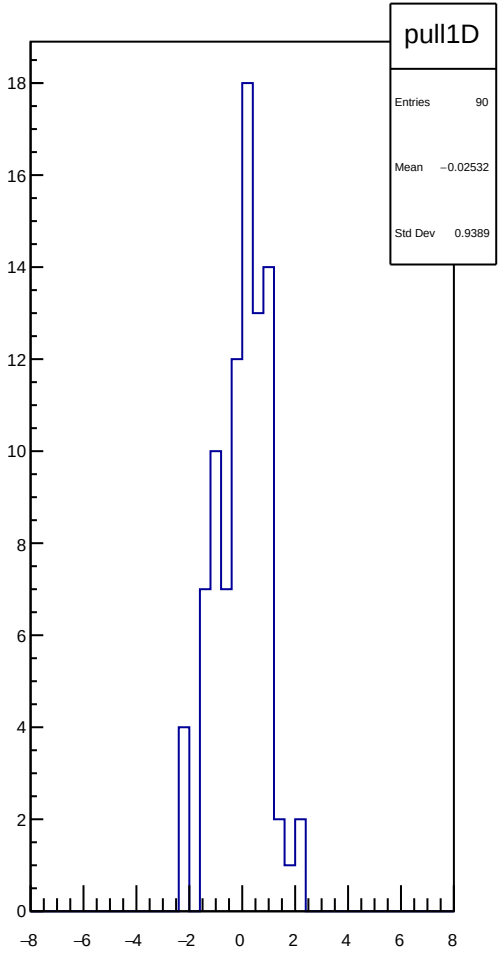

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3008 / 89
p0 3846 ± 2.903
4400
4200
4000
3800
3600
3400

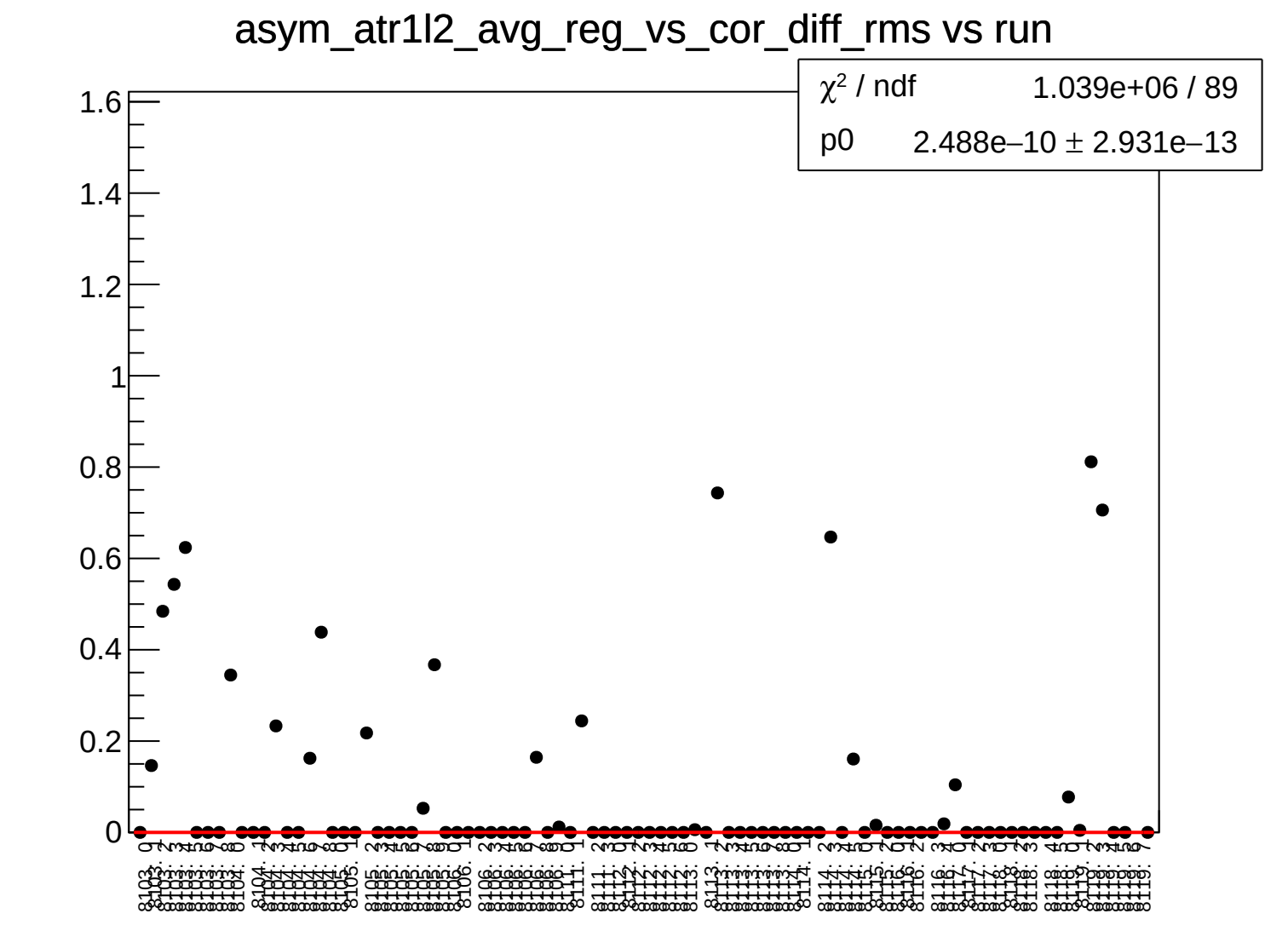

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 90.81 / 89
p0 −1409 ± 4423
pull
Entries 90
Mean −695.3
Std Dev 0

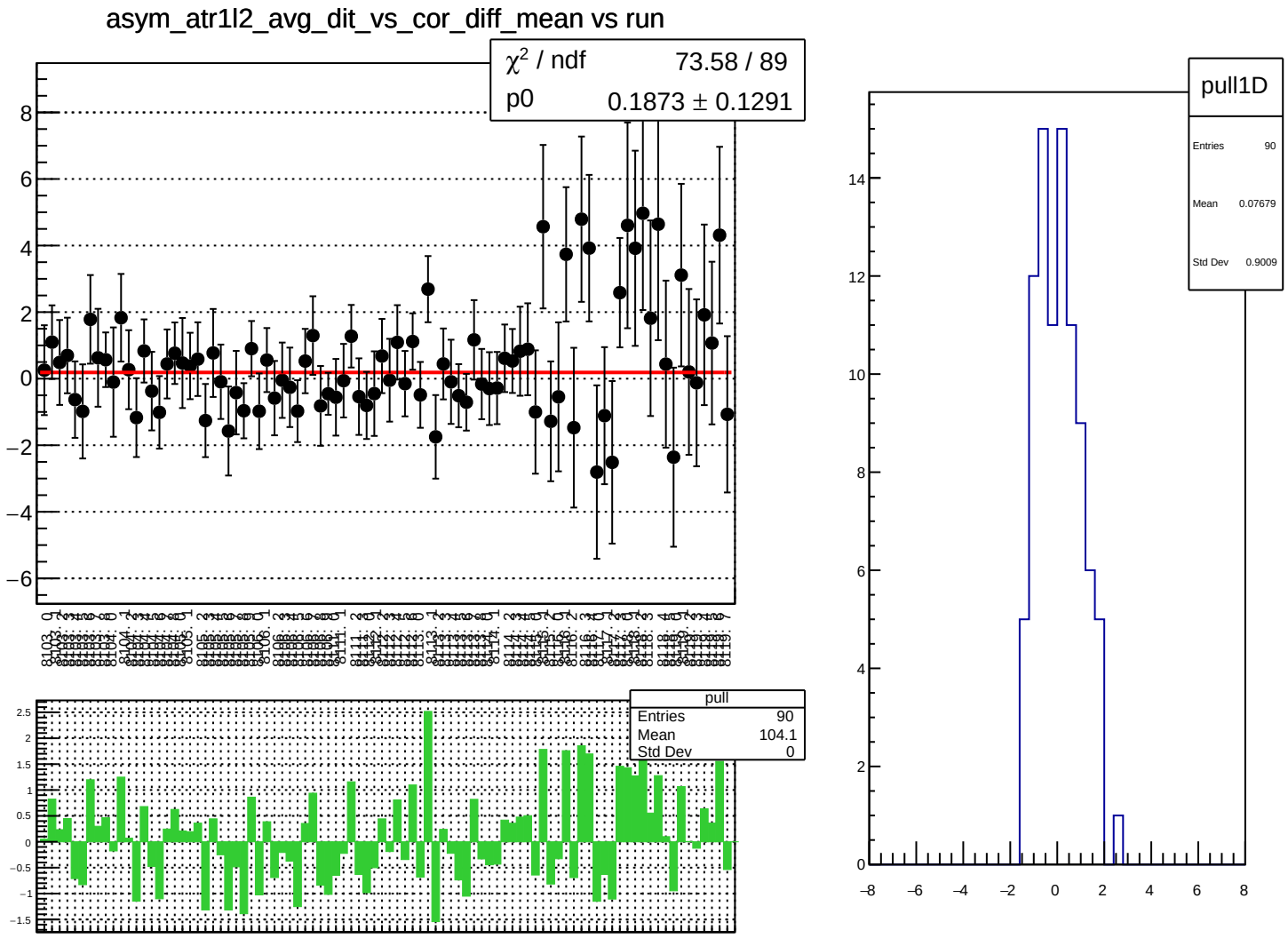

pull1D
Entries 90
Mean 0.0118
Std Dev 1.004

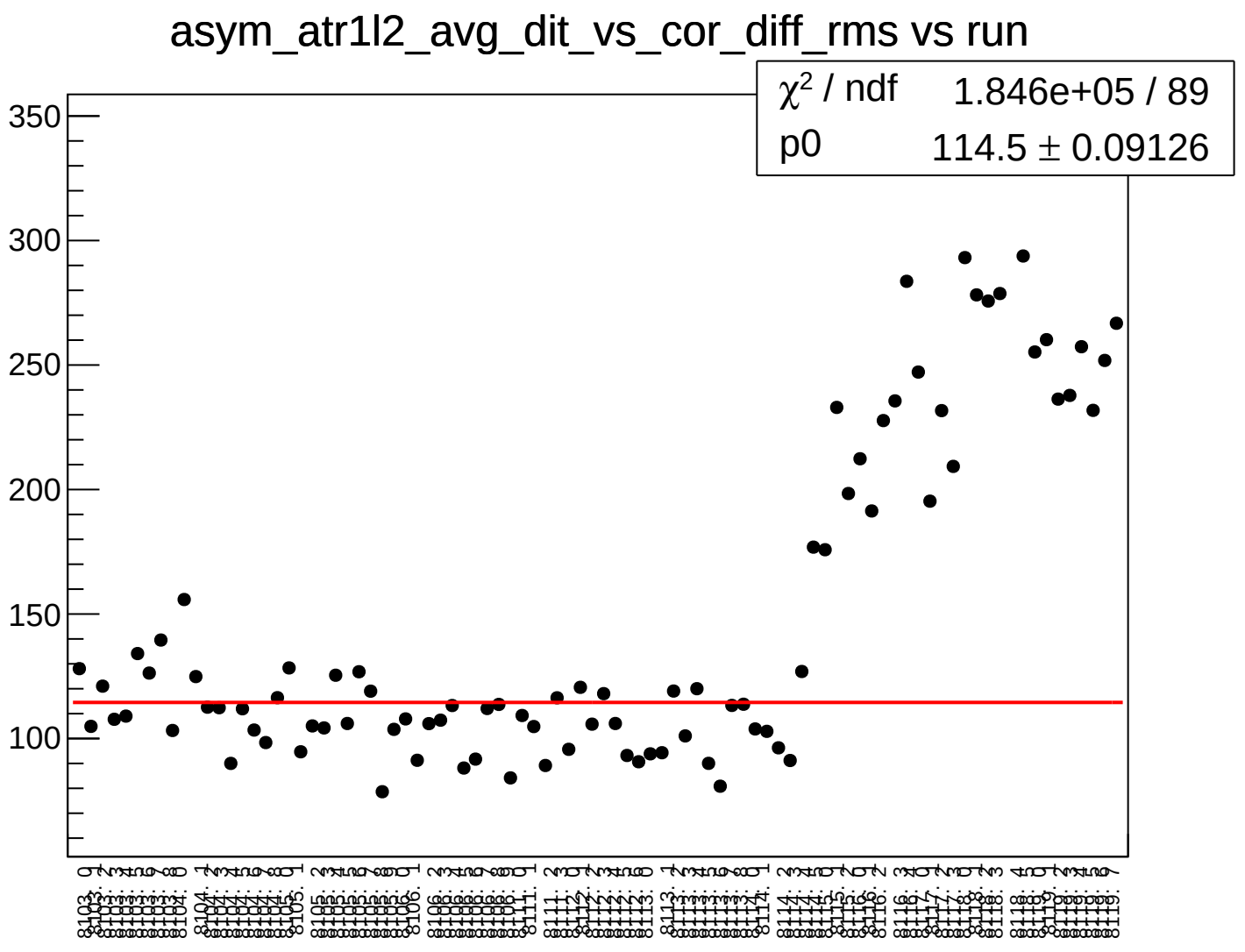

asym_atr1l2_avg_rms vs run
χ² / ndf 2920 / 89
p0 4144 ± 3.128
4600
4500
4400
4300
4200
4100
4000
3900
3800

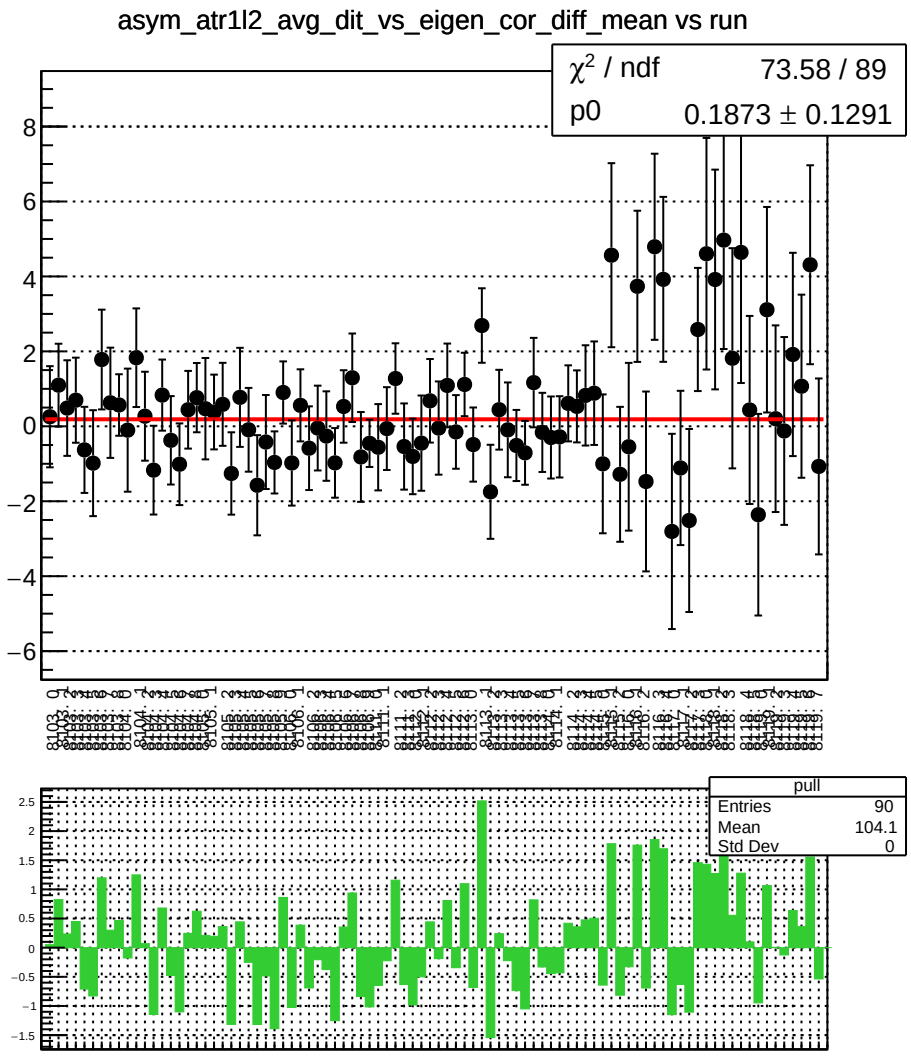

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.39 / 89
p0 −8.506e−13 ± 4.145e−13
pull
Entries 90
Mean 65.82
Std Dev 0

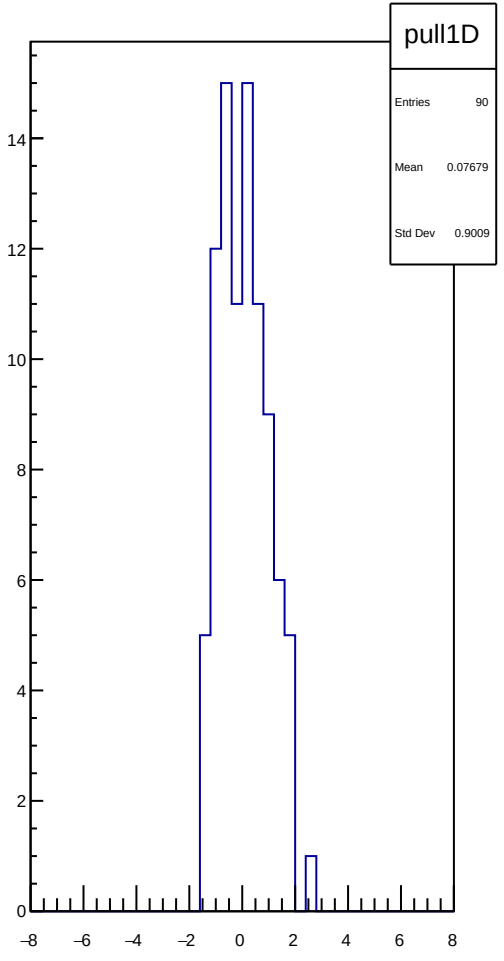

pull1D
Entries 90
Mean −0.02532
Std Dev 0.9389

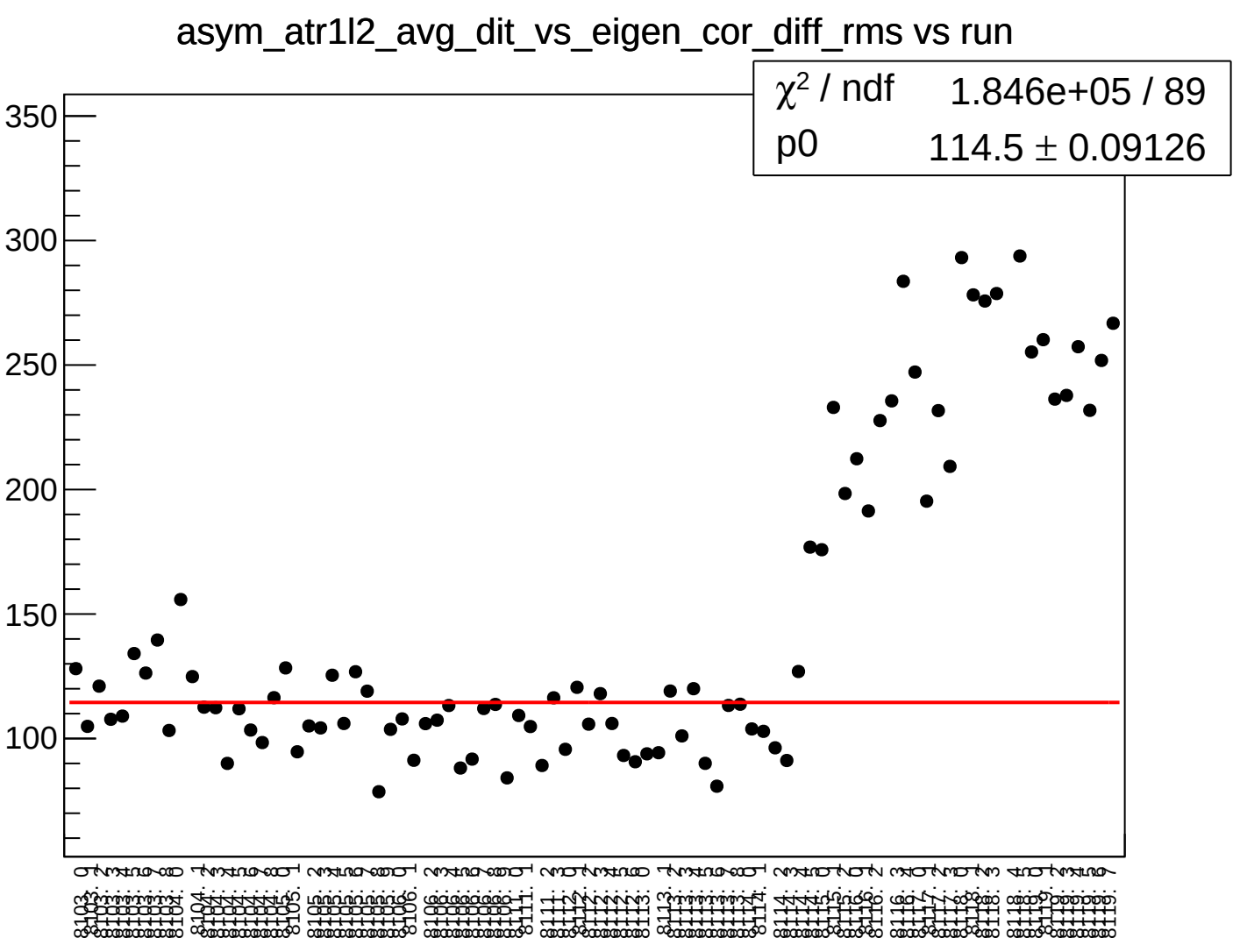

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.039e+06 / 89
p0 2.488e−10 ± 2.931e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

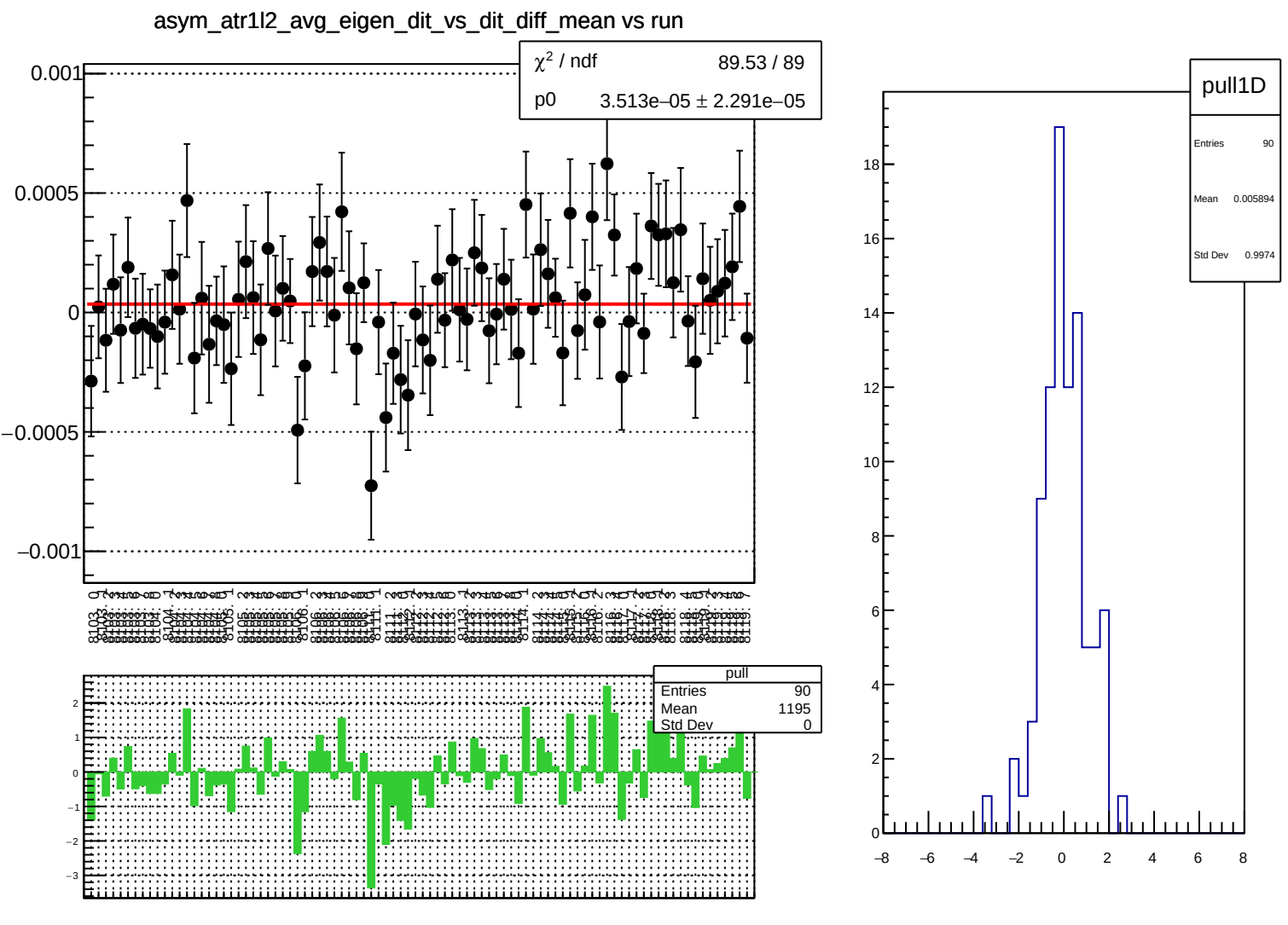

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.58 / 89
p0 0.1873 ± 0.1291
pull
Entries 90
Mean 104.1
Std Dev 0
pull1D
Entries 90
Mean 0.07679
Std Dev 0.9009

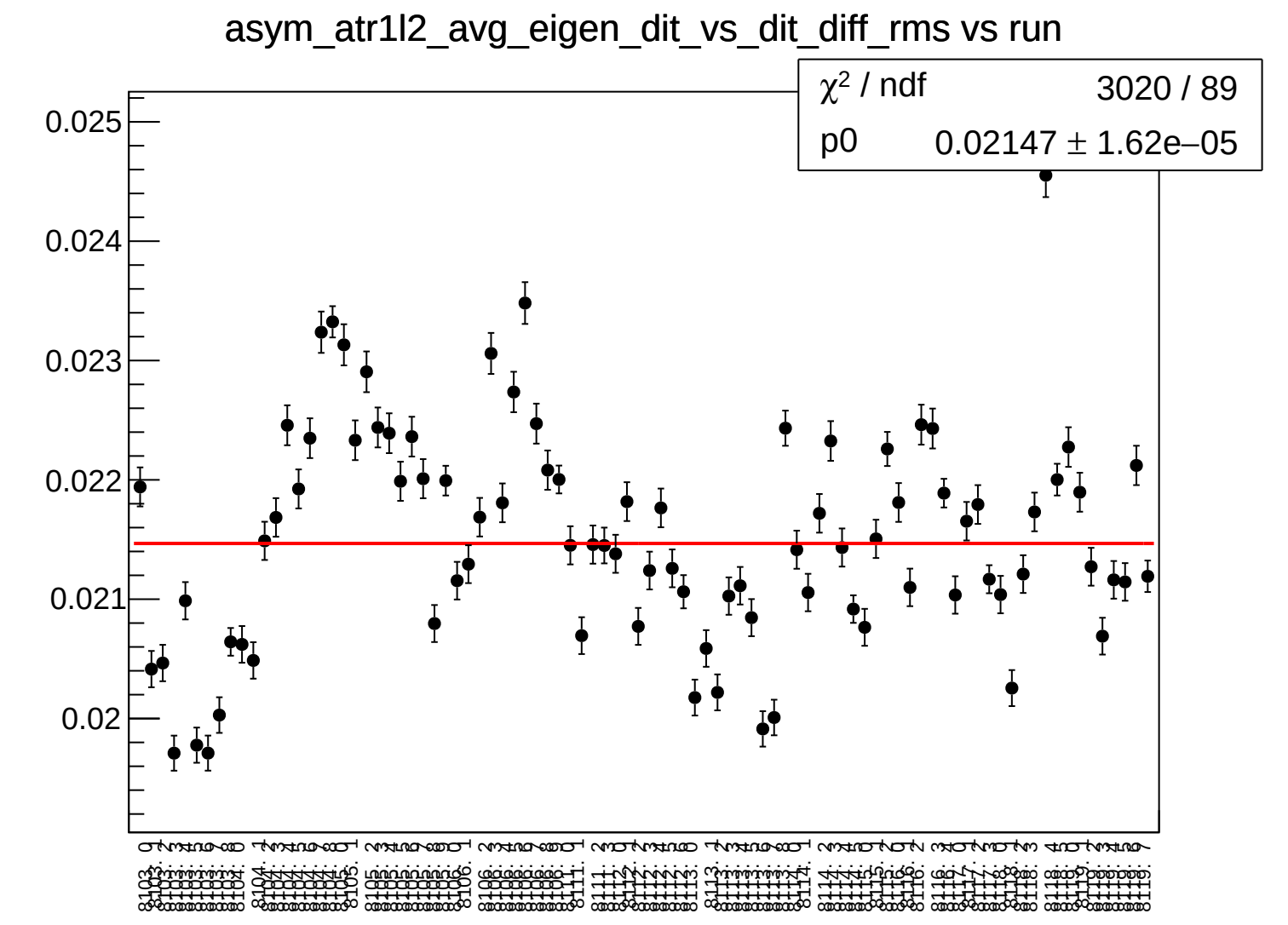

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.846e+05 / 89
p0 114.5 ± 0.09126
350
300
250
200
150
100

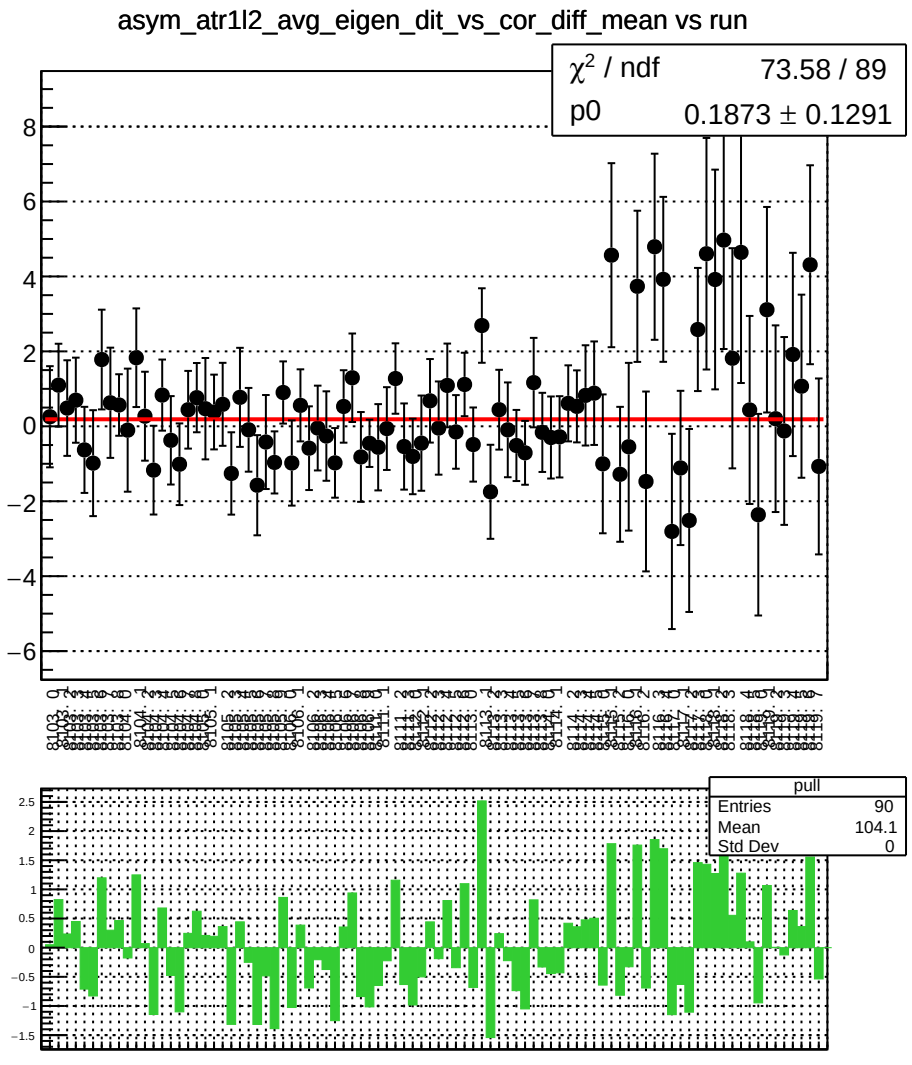

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.58 / 89
p0 0.1873 ± 0.1291
pull
Entries 90
Mean 104.1
Std Dev 0

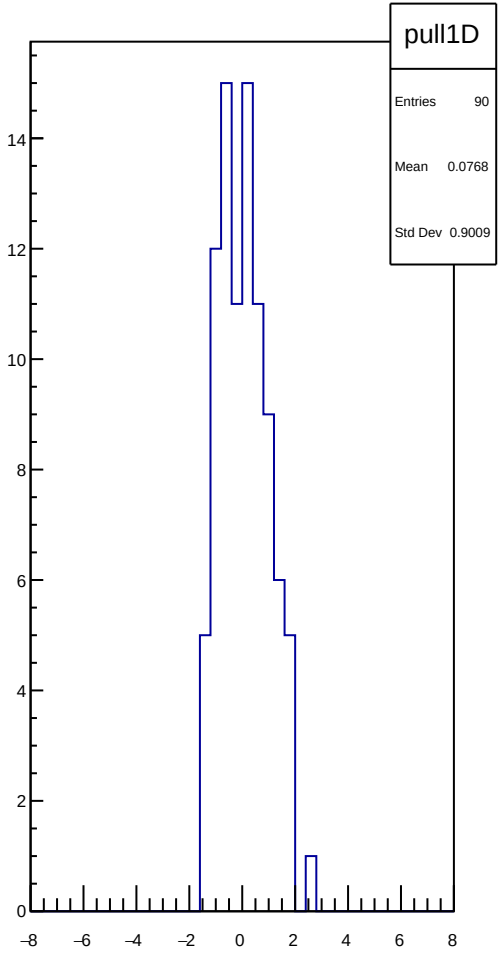

pull1D
Entries 90
Mean 0.07679
Std Dev 0.9009

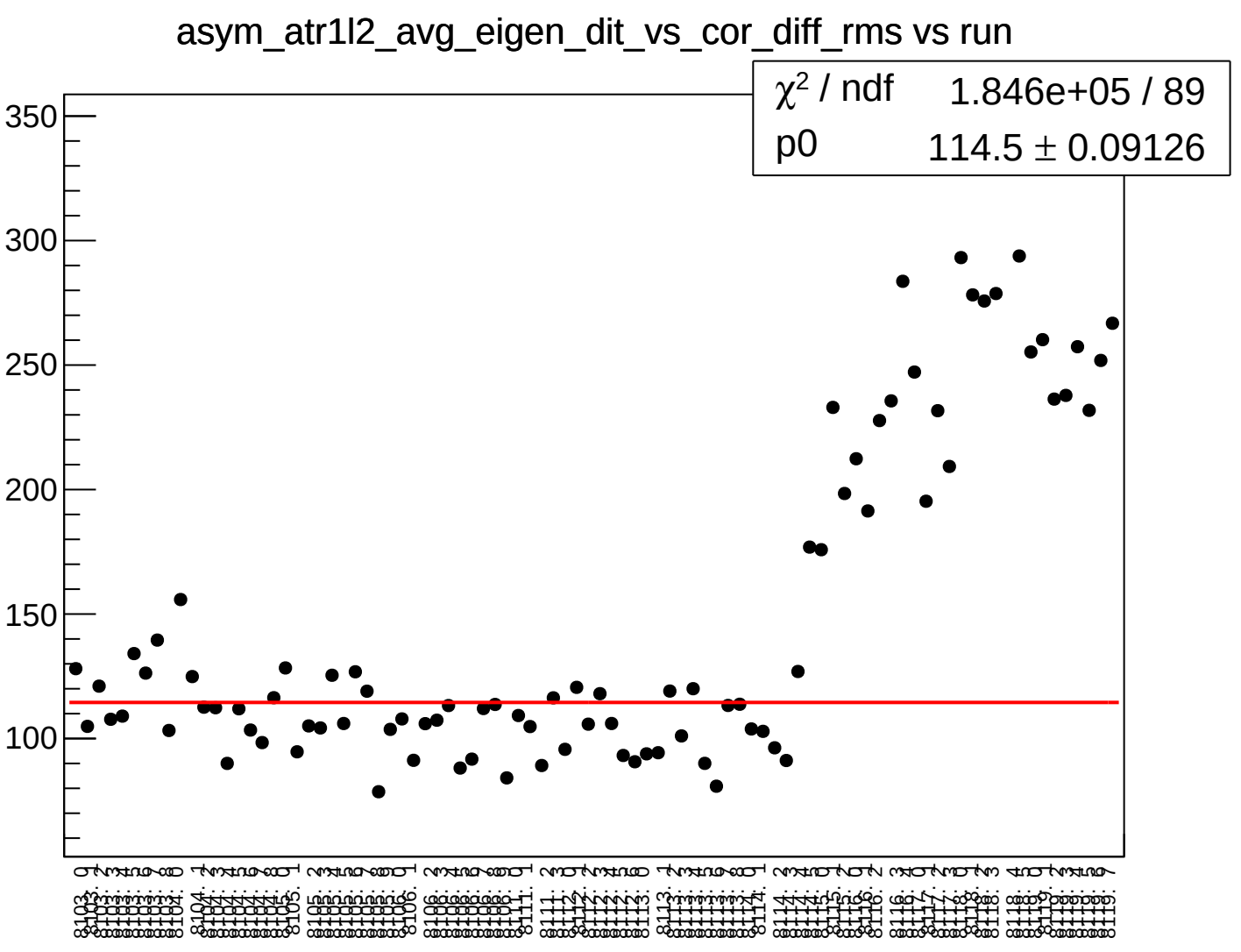

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.846e+05 / 89
p0 114.5 ± 0.09126
350
300
250
200
150
100

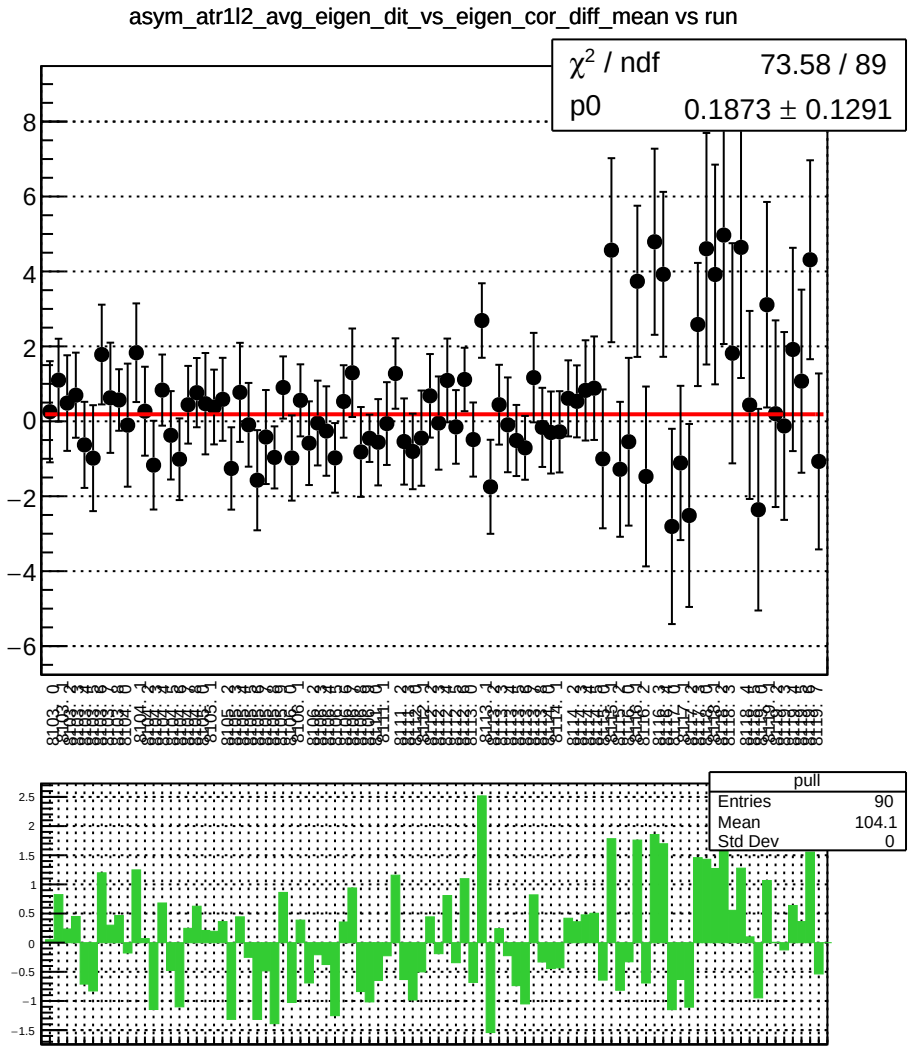

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.53 / 89
p0 3.513e−05 ± 2.291e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 1195
Std Dev 0
pull1D
Entries 90
Mean 0.005894
Std Dev 0.9974

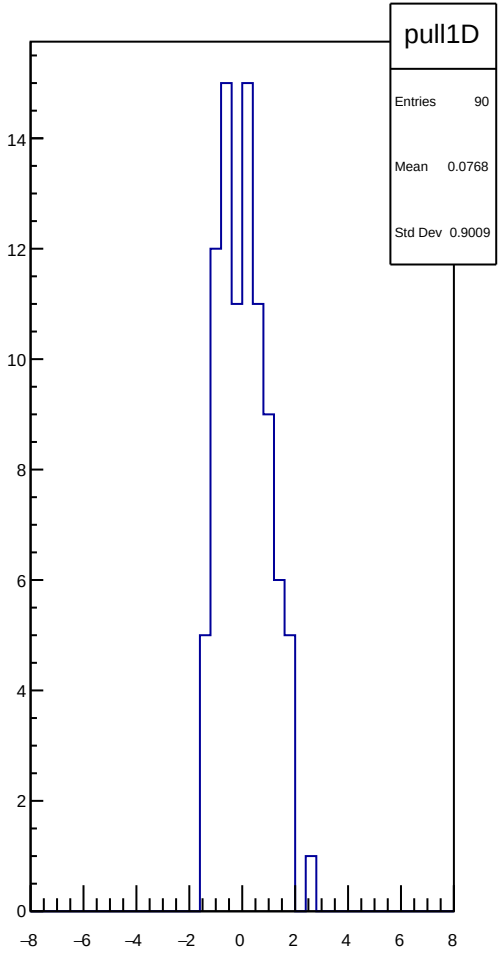

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3020 / 89
p0 0.02147 ± 1.62e−05
0.025
0.024
0.023
0.022
0.021
0.02

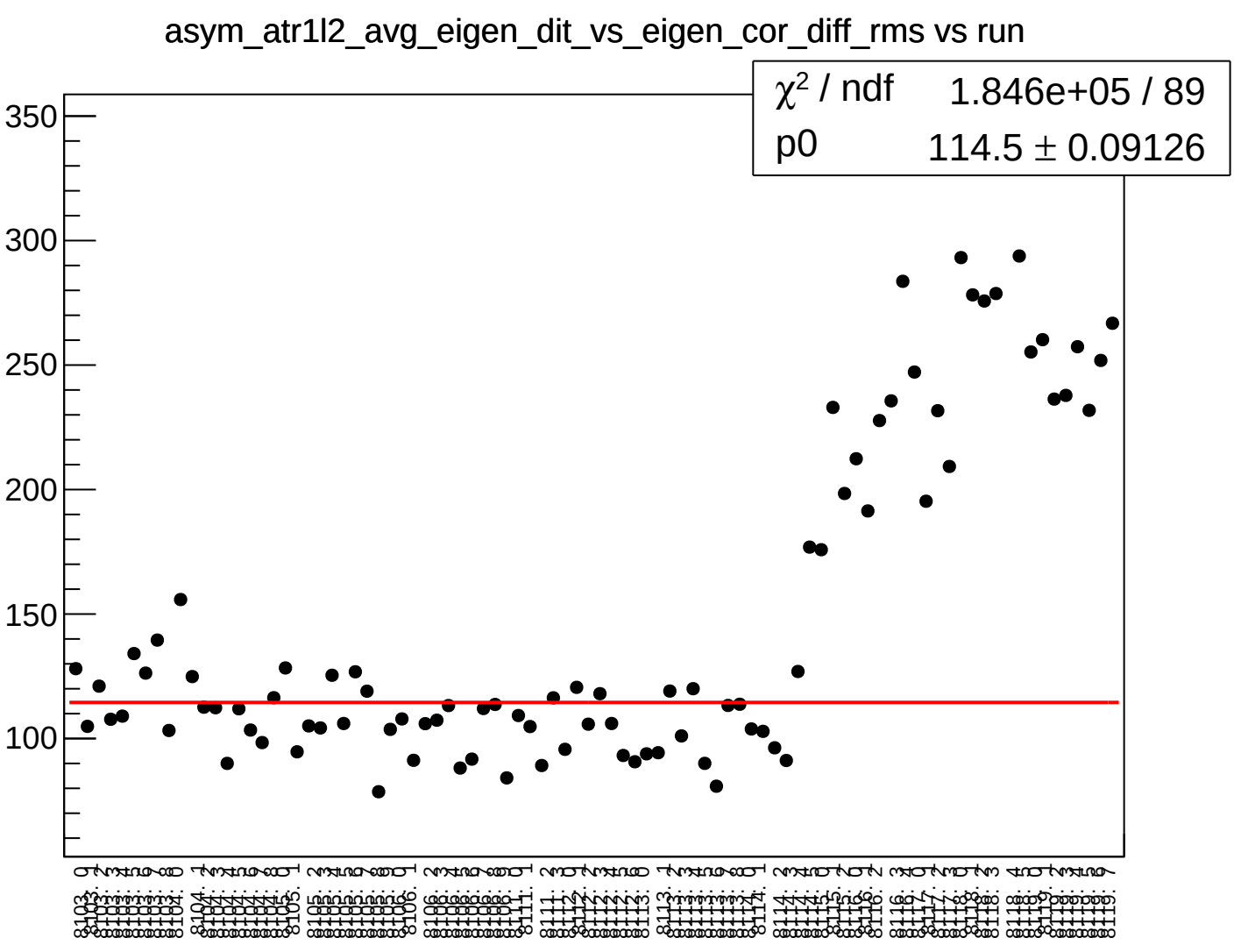

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.58 / 89
p0 0.1873 ± 0.1291
pull
Entries 90
Mean 104.1
Std Dev 0

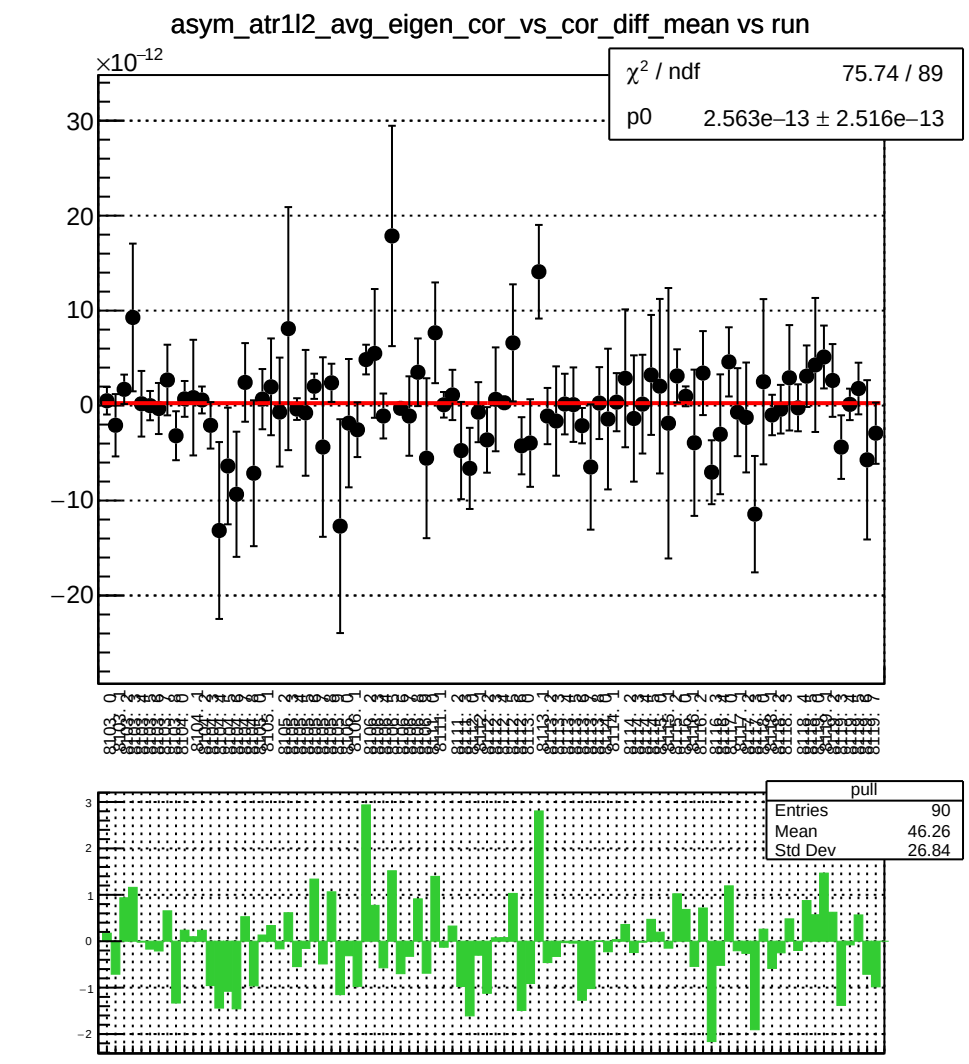

pull1D
Entries 90
Mean 0.0768
Std Dev 0.9009

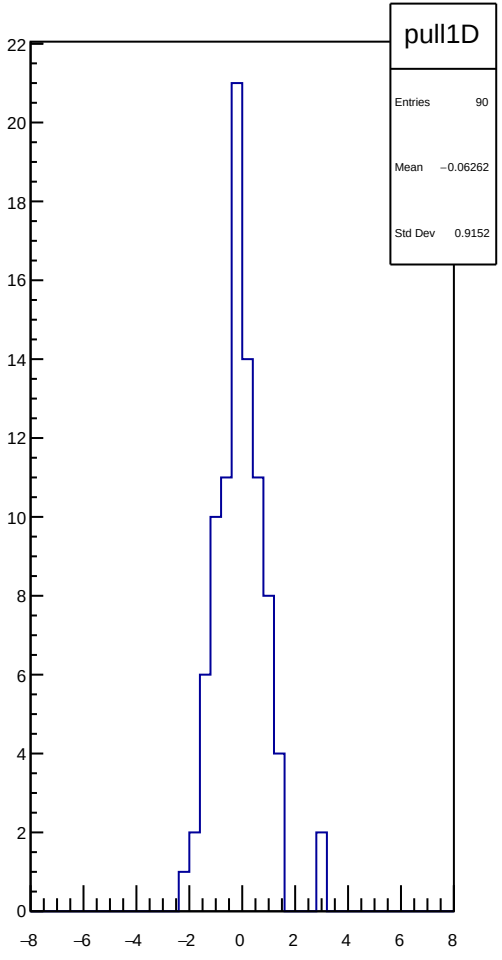

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.846e+05 / 89
p0 114.5 ± 0.09126
350
300
250
200
150
100

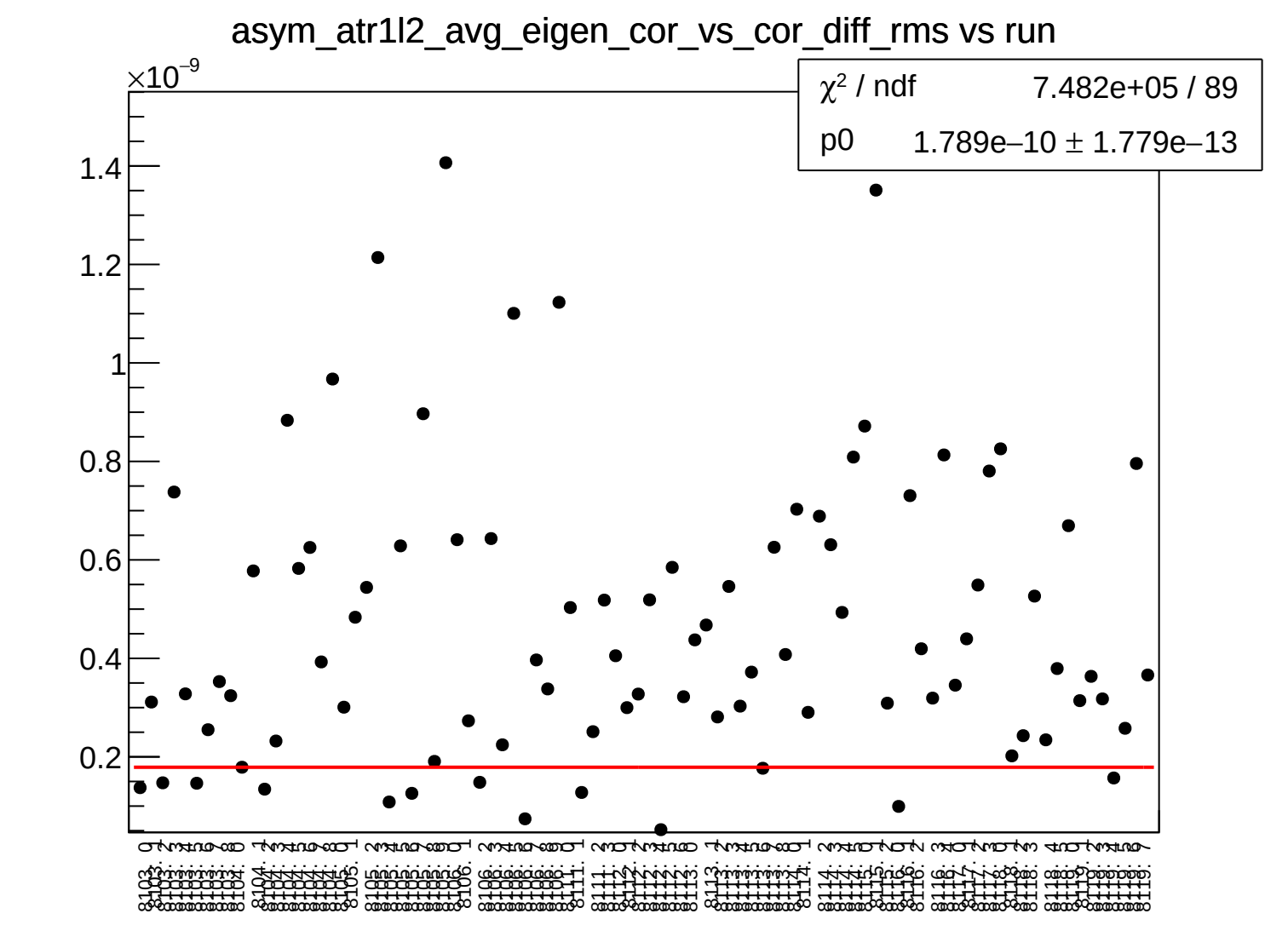

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.58 / 89
p0 0.1873 ± 0.1291
pull
Entries 90
Mean 104.1
Std Dev 0

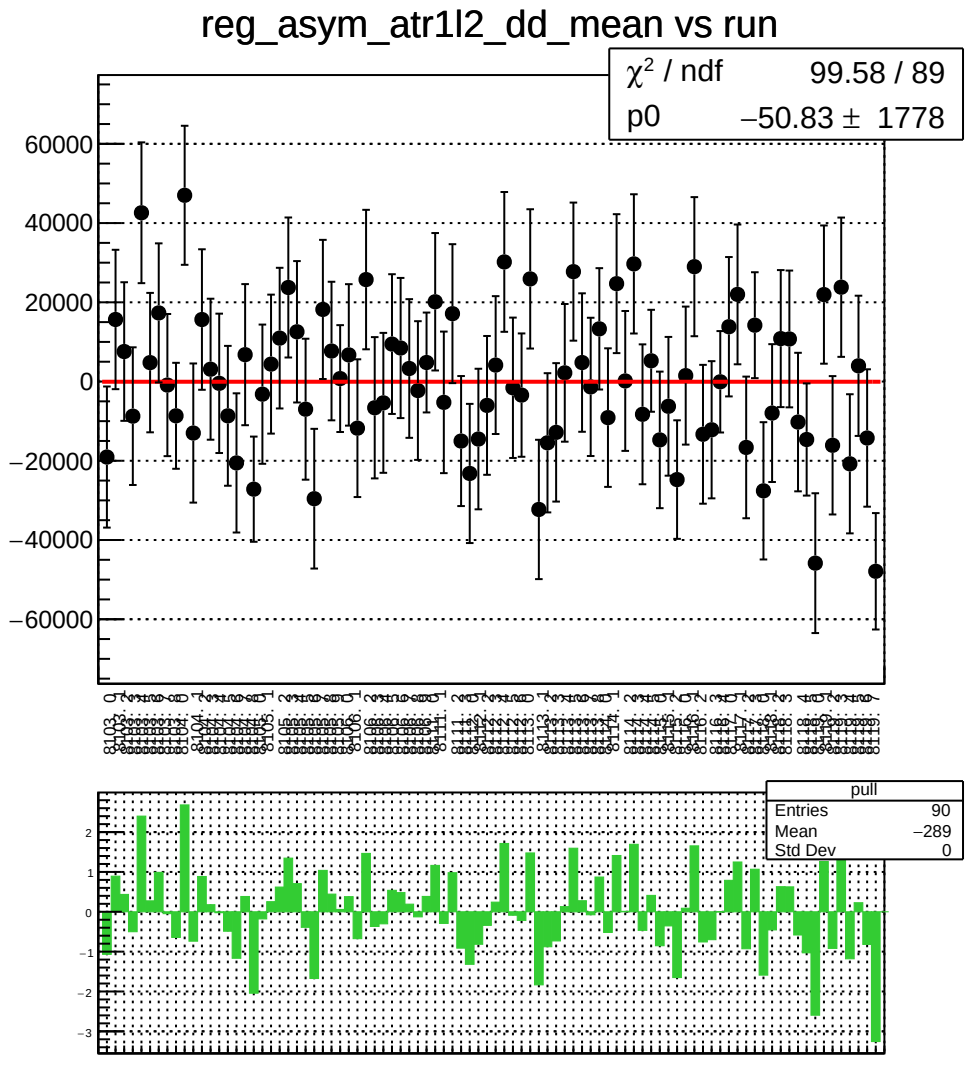

pull1D
Entries 90
Mean 0.0768
Std Dev 0.9009

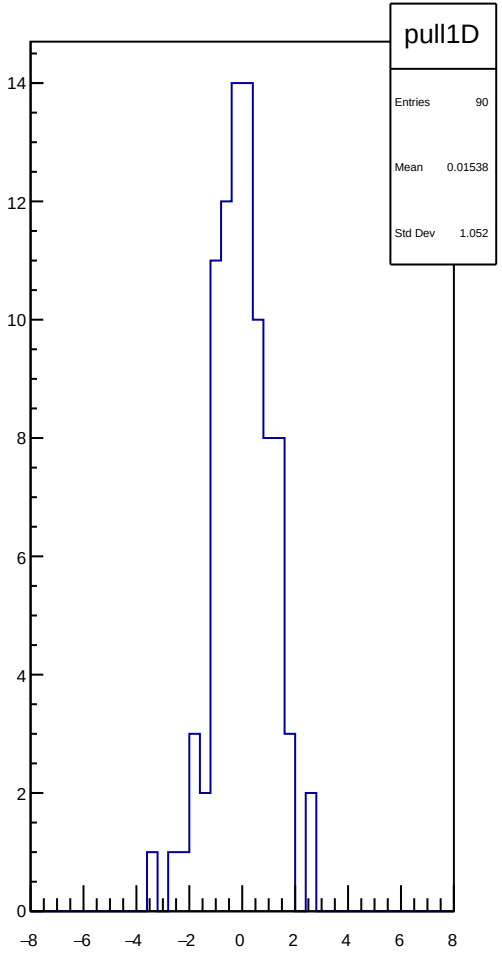

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.846e+05 / 89
p0 114.5 ± 0.09126
350
300
250
200
150
100

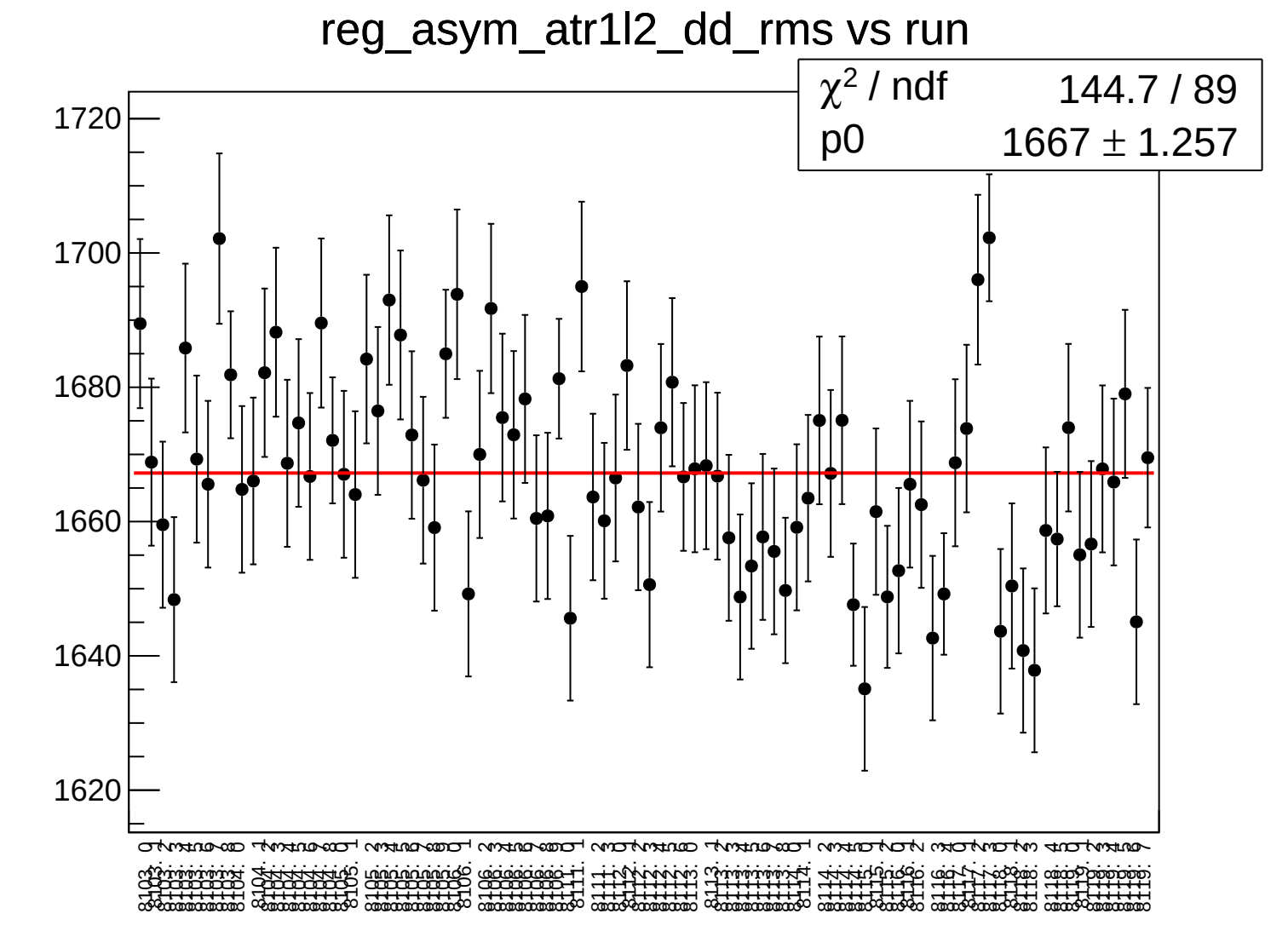

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.74 / 89
p0 2.563e−13 ± 2.516e−13
pull
Entries 90
Mean 46.26
Std Dev 26.84

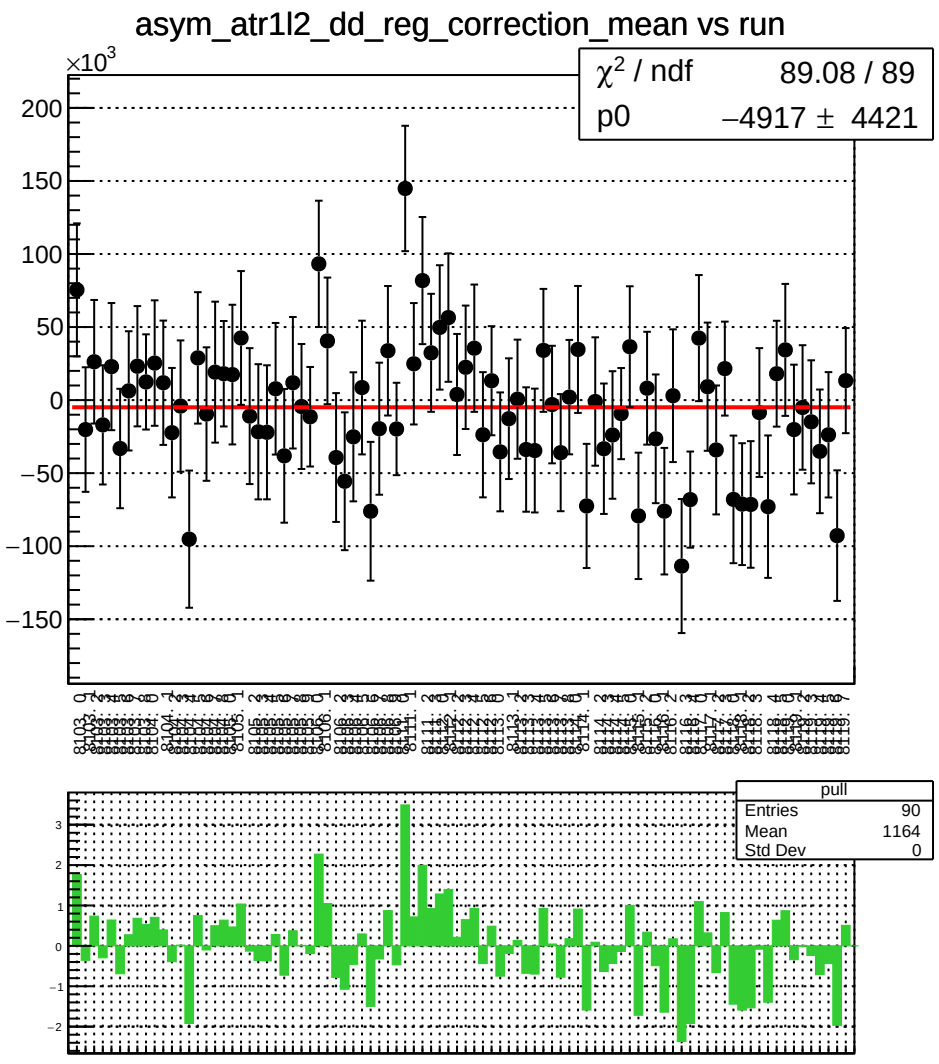

pull1D
Entries 90
Mean −0.06262
Std Dev 0.9152

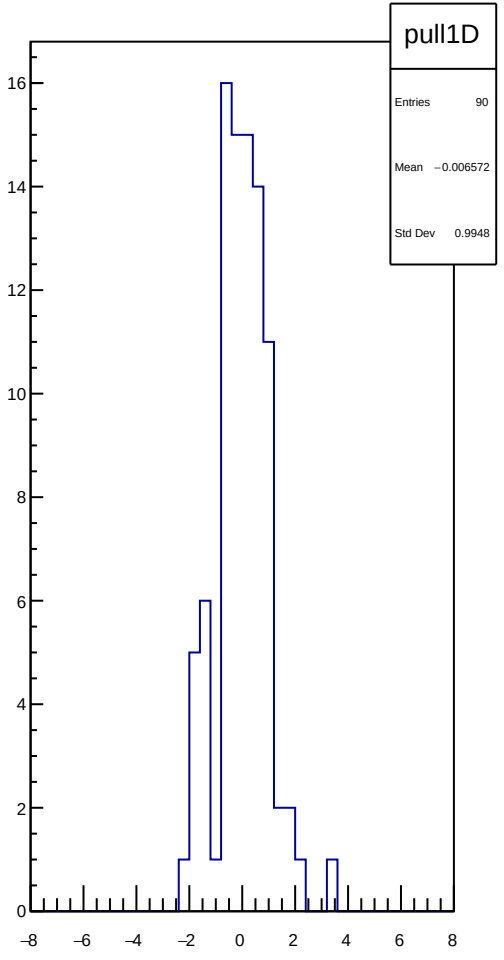

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.482e+05 / 89
p0 1.789e−10 ± 1.779e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

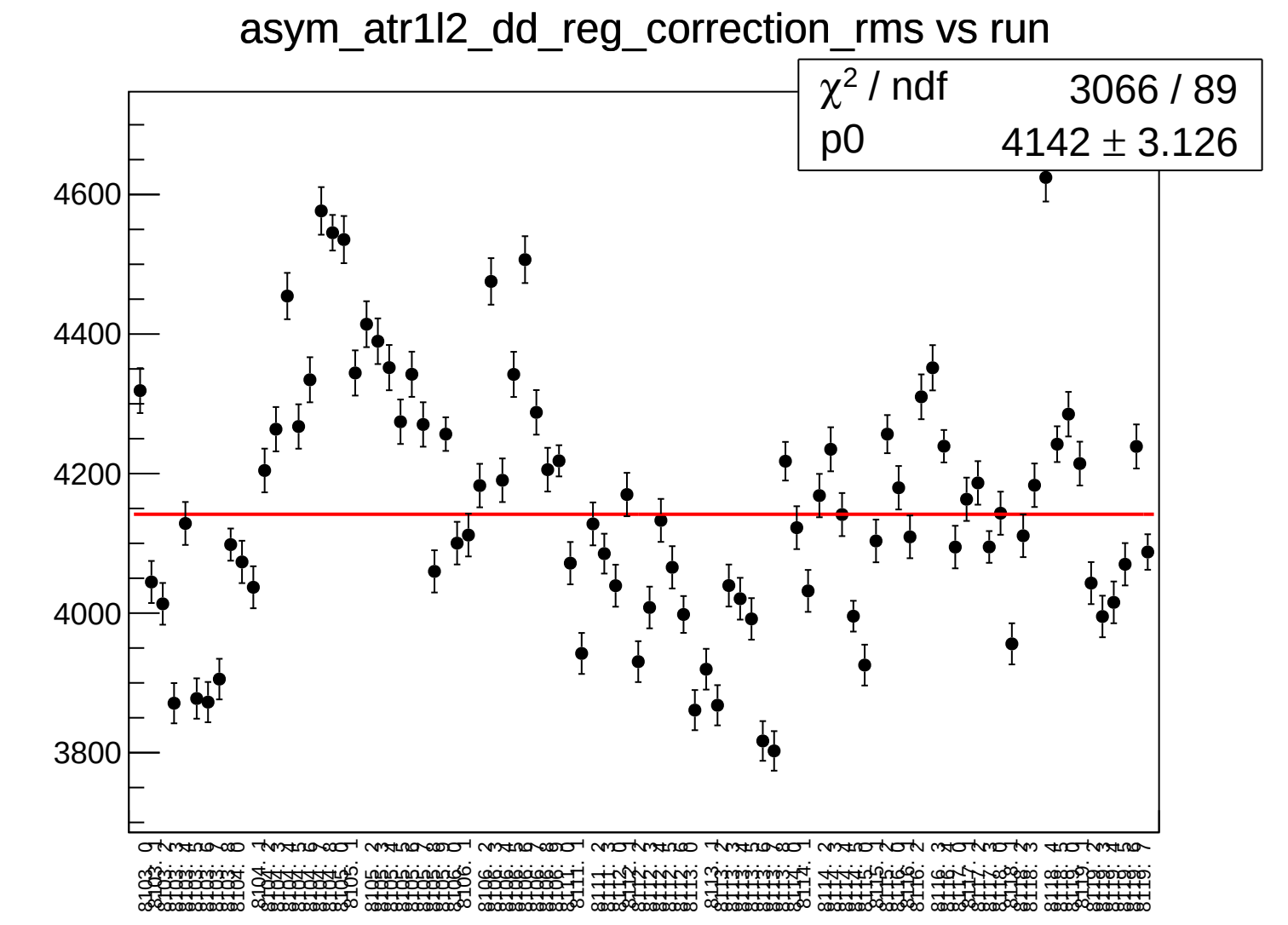

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 99.58 / 89
p0 −50.83 ± 1778
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −289
Std Dev 0
2
1
0
−1
−2
−3

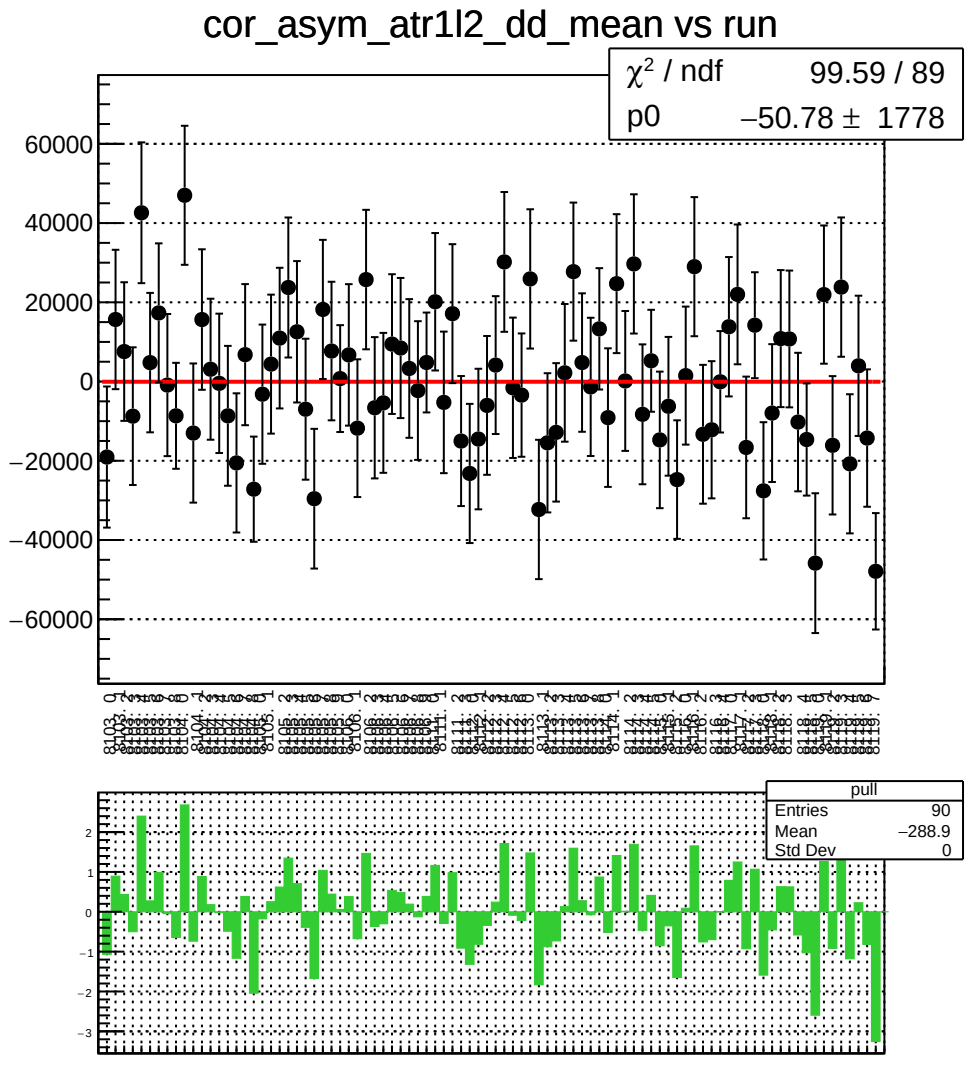

pull1D
Entries 90
Mean 0.01538
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

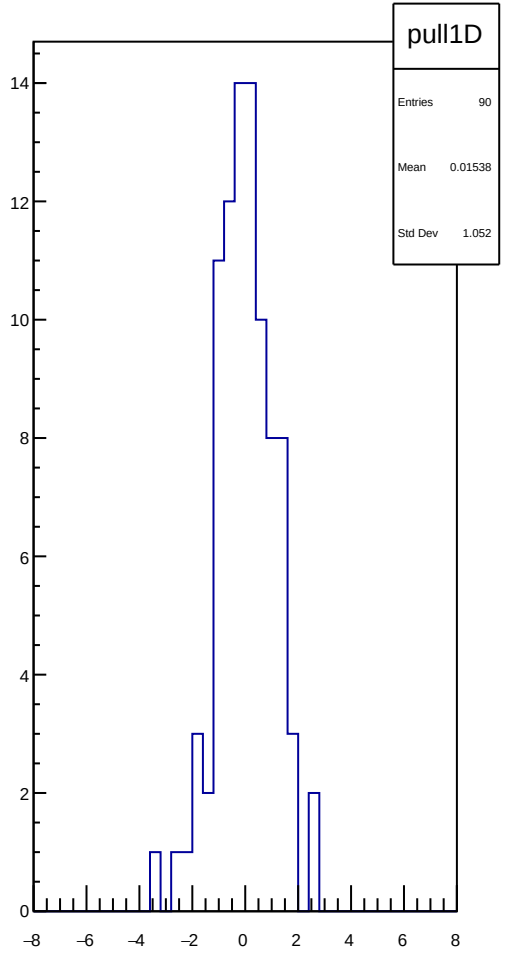

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 144.7 / 89
p0 1667 ± 1.257
1720
1700
1680
1660
1640
1620

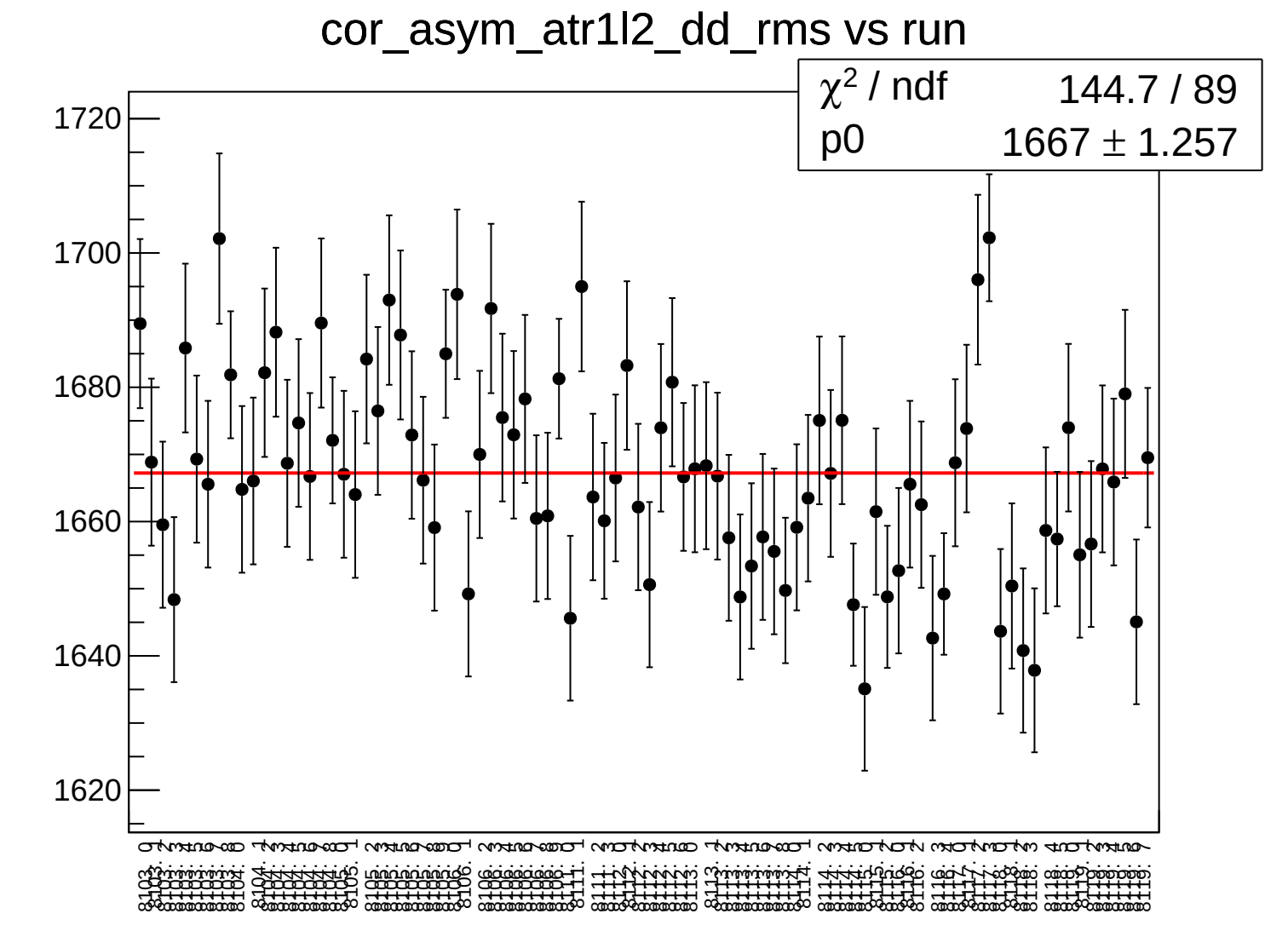

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.08 / 89
p0 −4917 ± 4421
200
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 1164
Std Dev 0
3
2
1
0
−1
−2

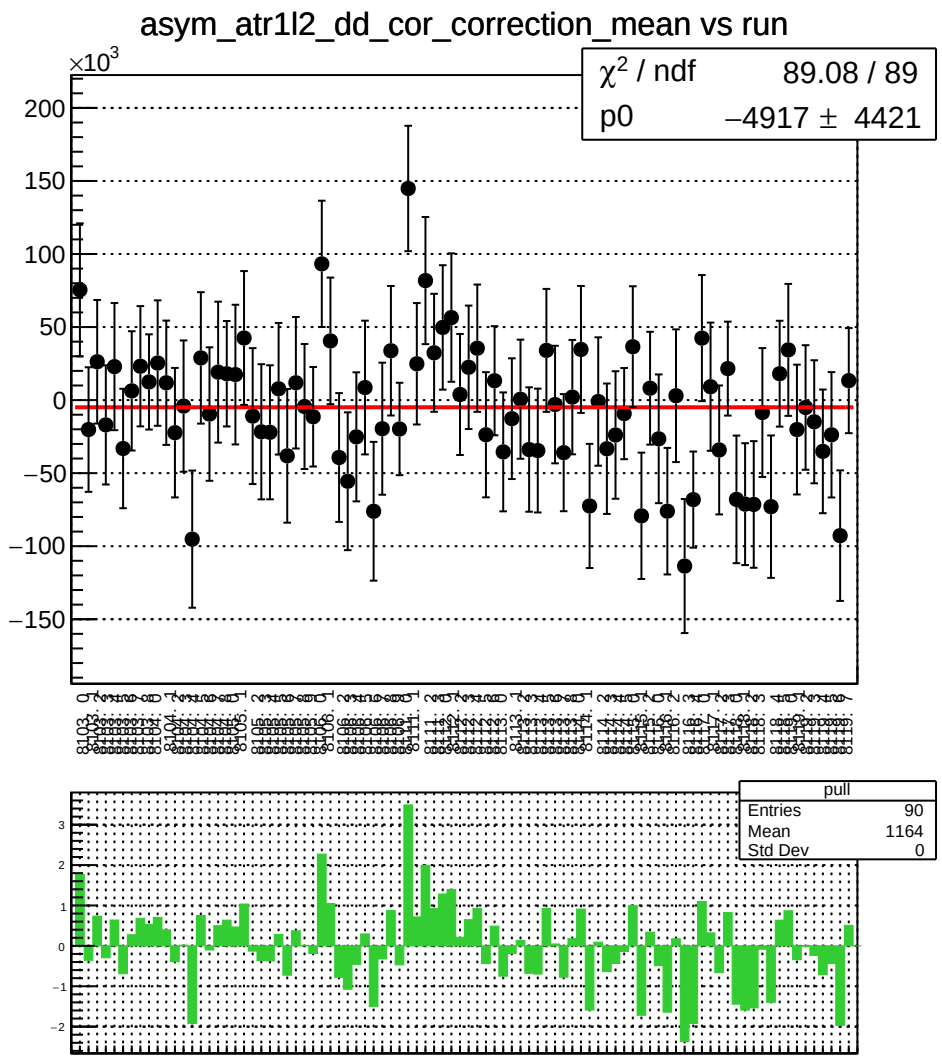

pull1D
Entries 90
Mean −0.006572
Std Dev 0.9948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

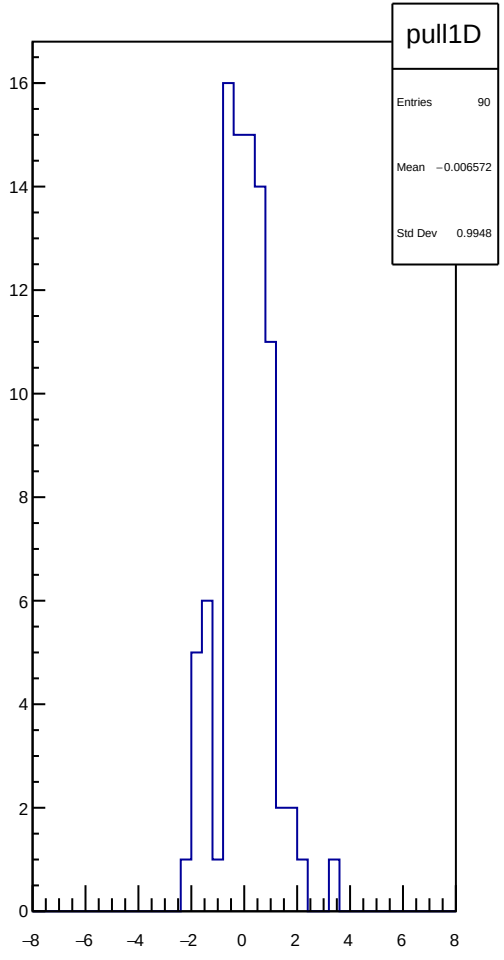

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3066 / 89
p0 4142 ± 3.126
4600
4400
4200
4000
3800

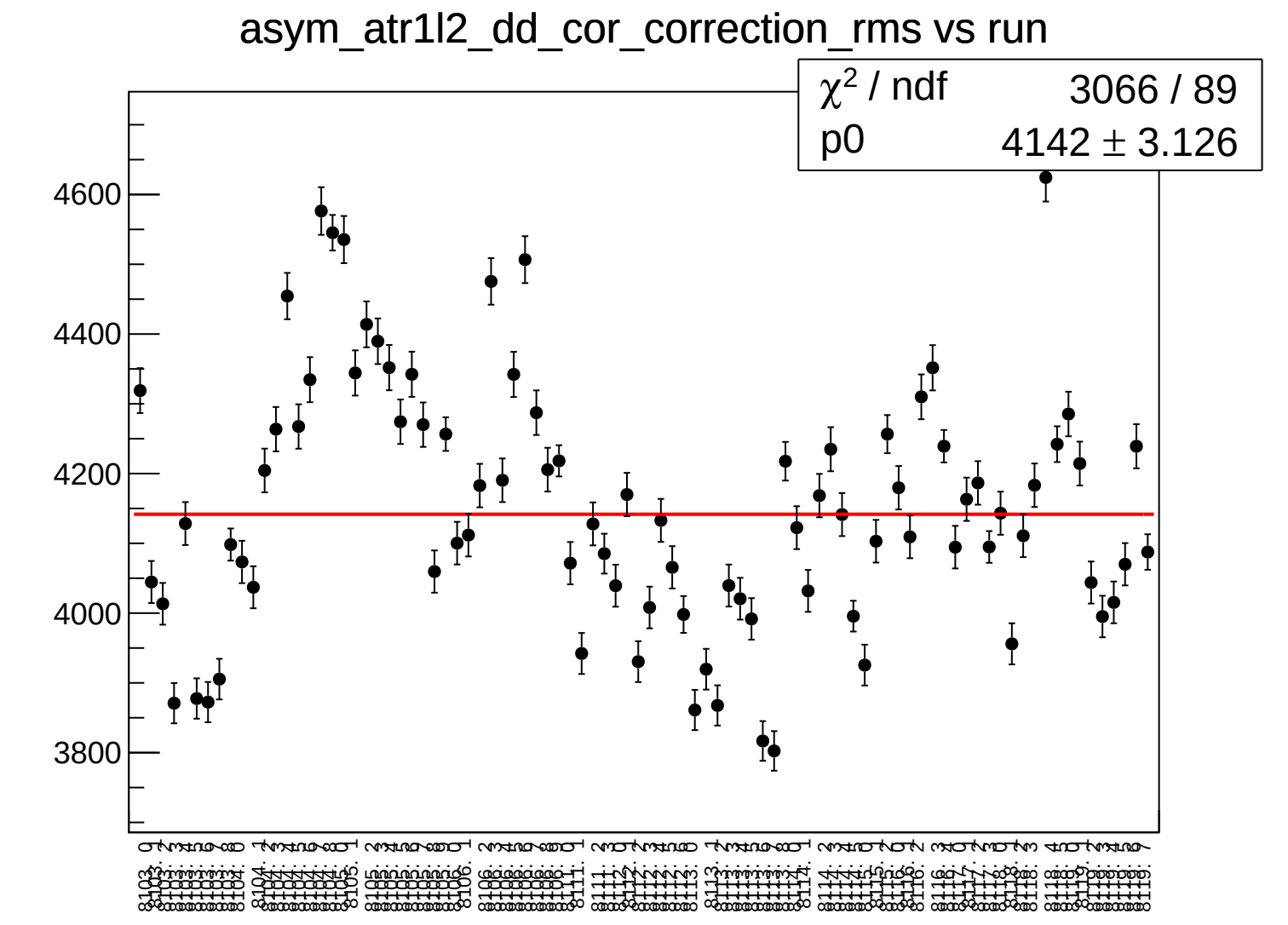

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 99.59 / 89
p0 −50.78 ± 1778
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −288.9
Std Dev 0
2
1
0
−1
−2
−3

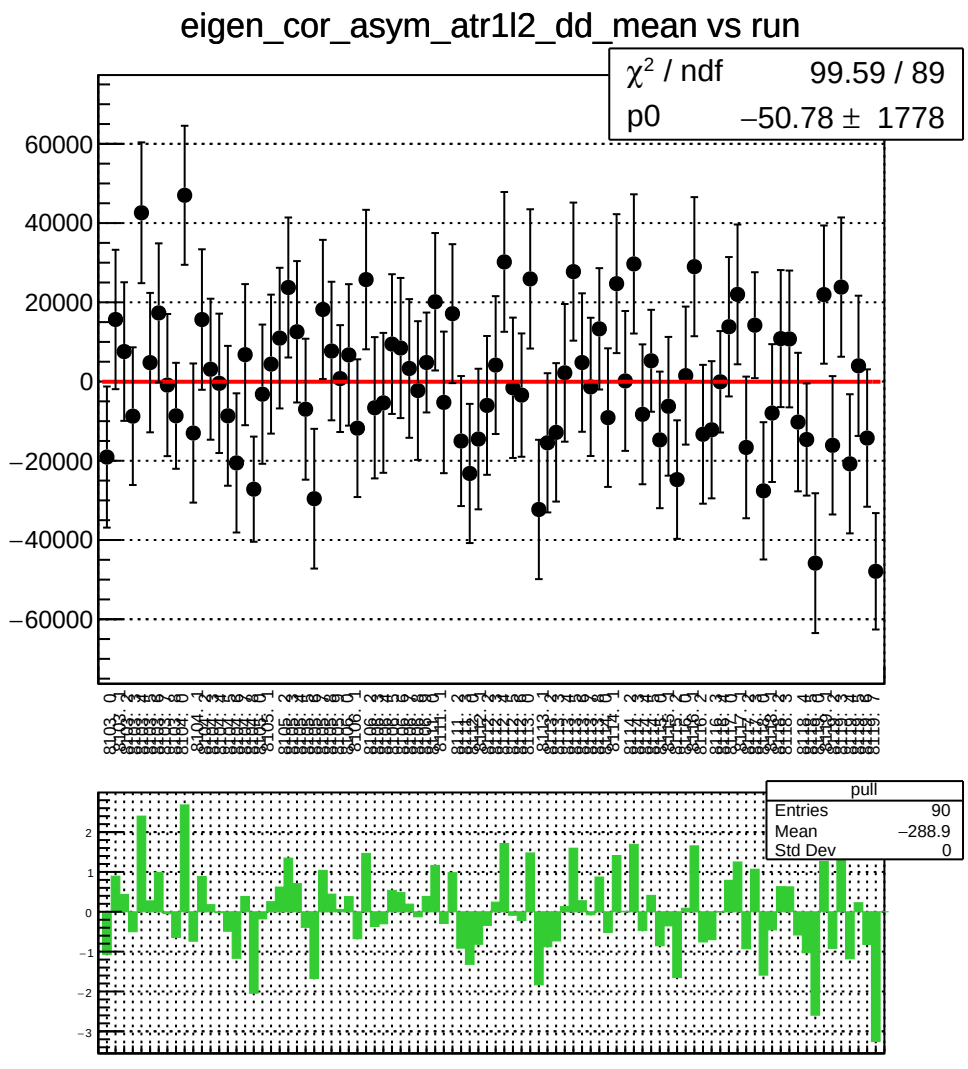

pull1D
Entries 90
Mean 0.01538
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

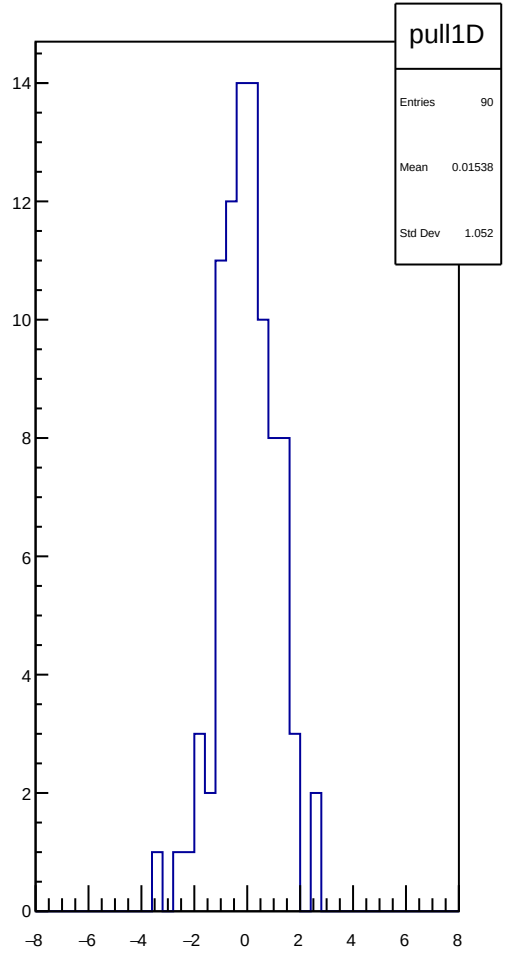

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 144.7 / 89
p0 1667 ± 1.257
1720
1700
1680
1660
1640
1620

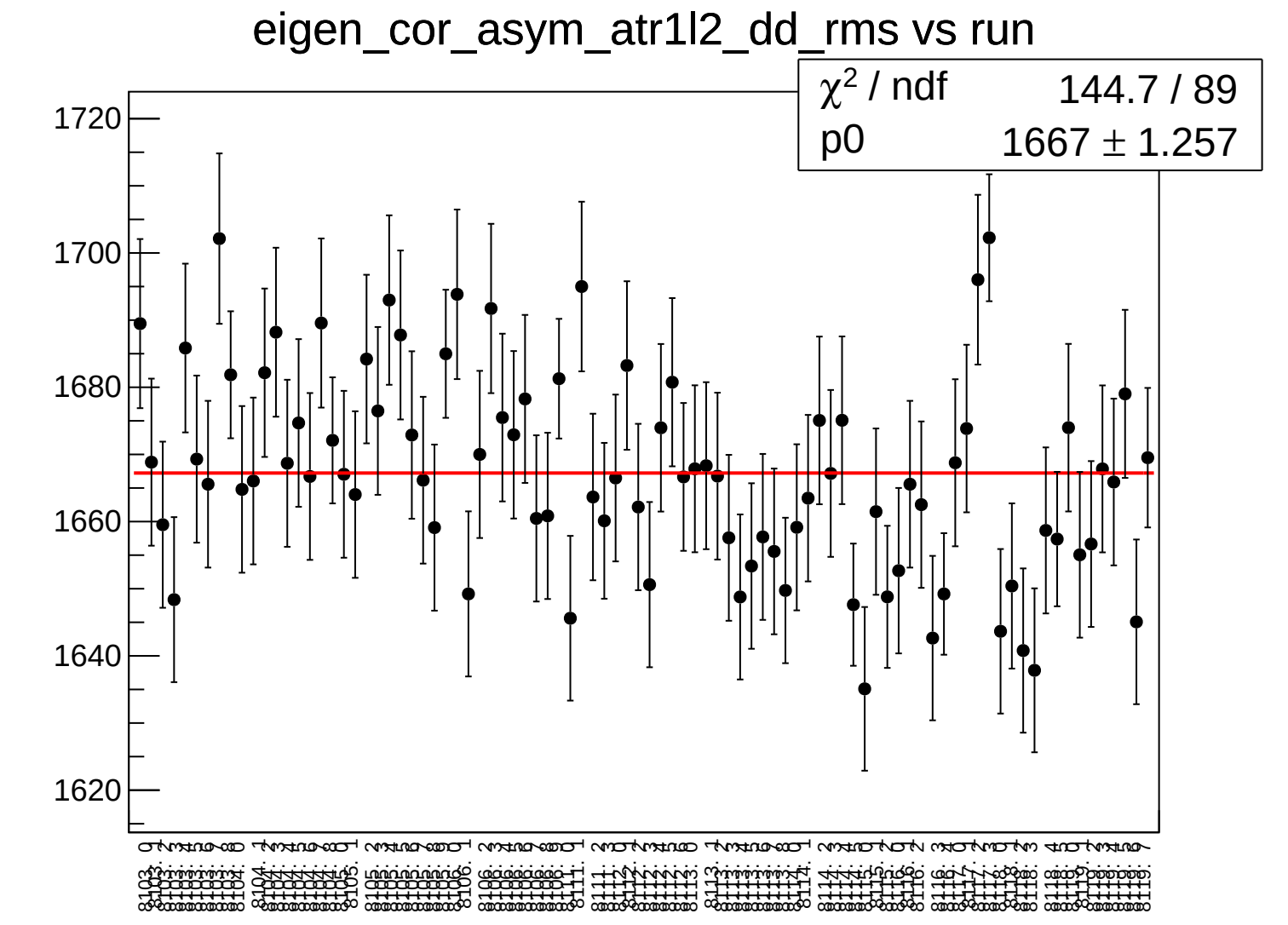

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.08 / 89
p0 −4917 ± 4421
200
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 1164
Std Dev 0
3
2
1
0
−1
−2

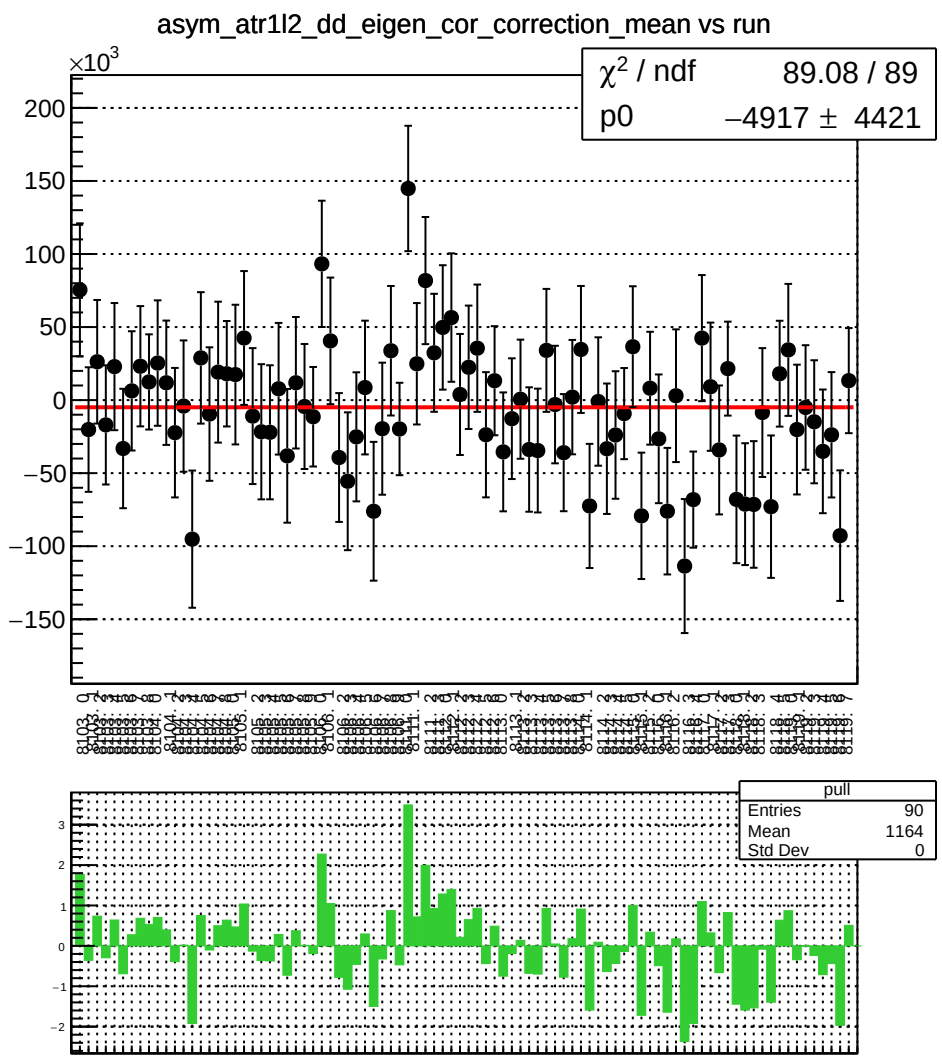

pull1D
Entries 90
Mean −0.006572
Std Dev 0.9948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

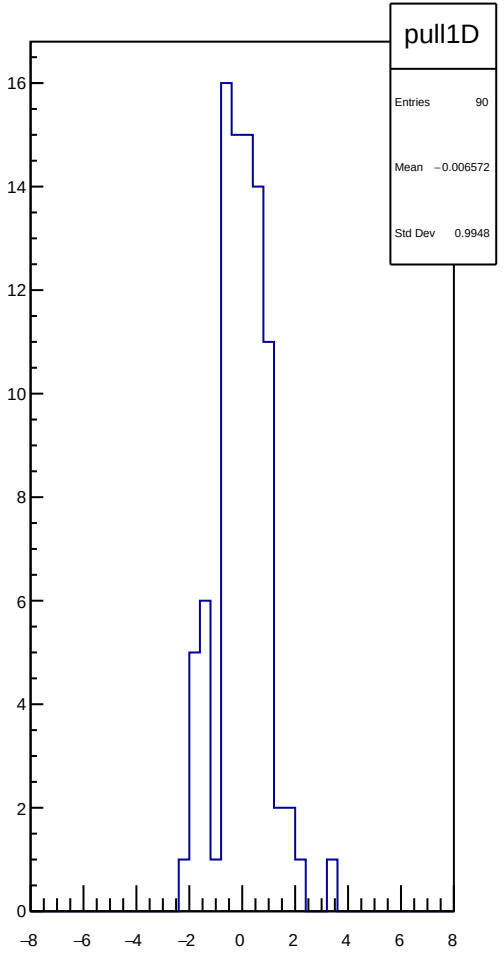

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3066 / 89
p0 4142 ± 3.126
4600
4400
4200
4000
3800

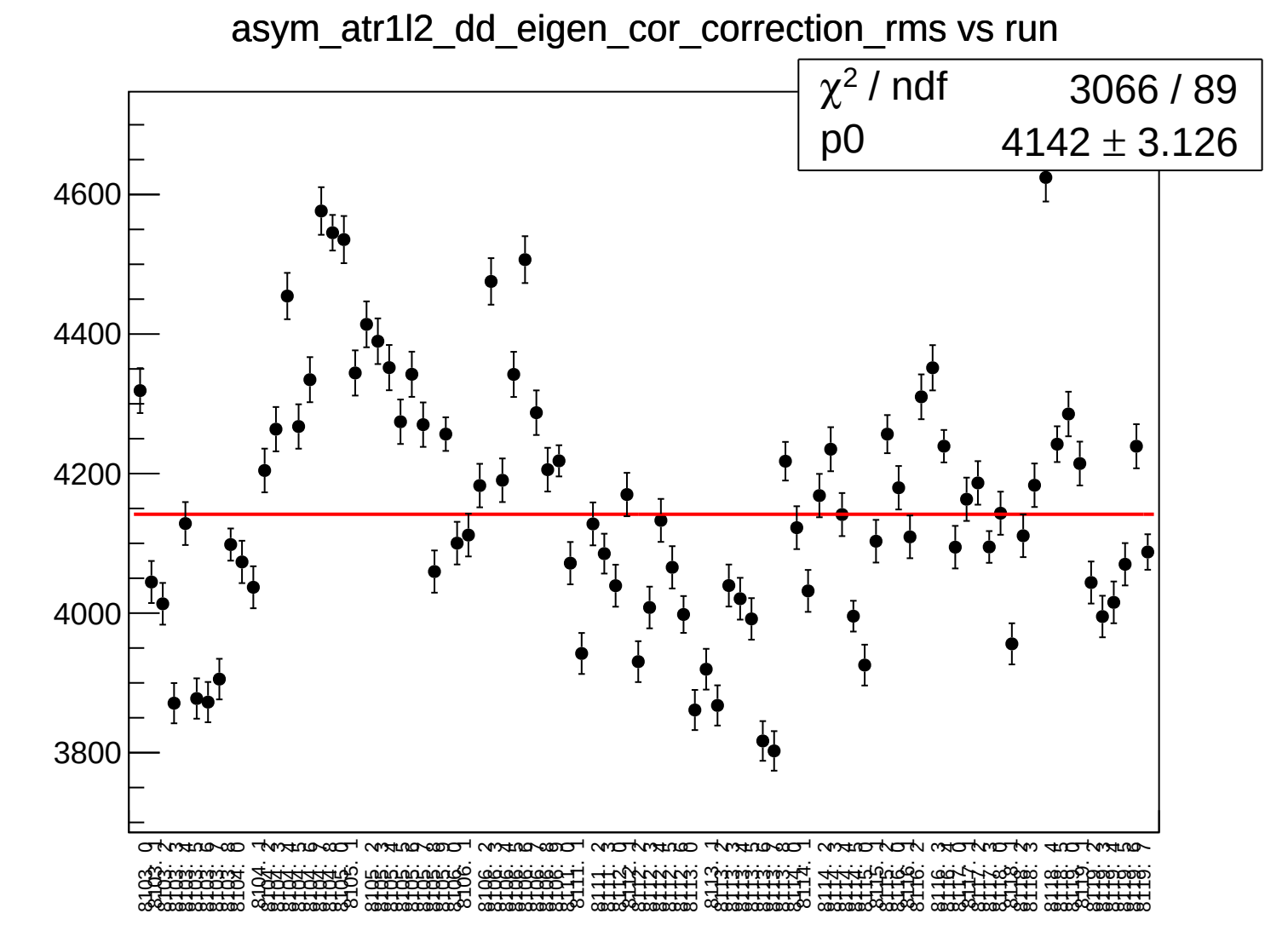

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 99.59 / 89
p0 −50.78 ± 1778
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −288.9
Std Dev 0
2
1
0
−1
−2
−3

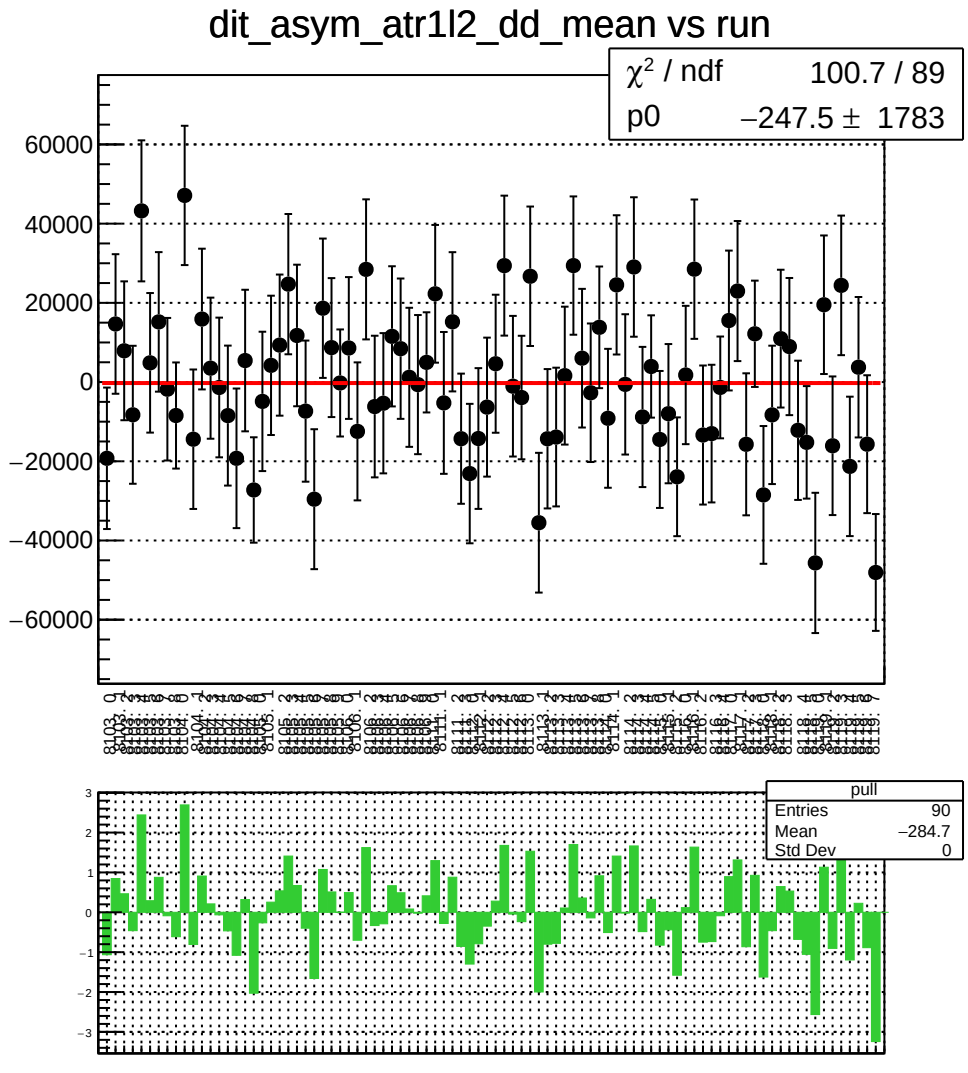

pull1D
Entries 90
Mean 0.01538
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

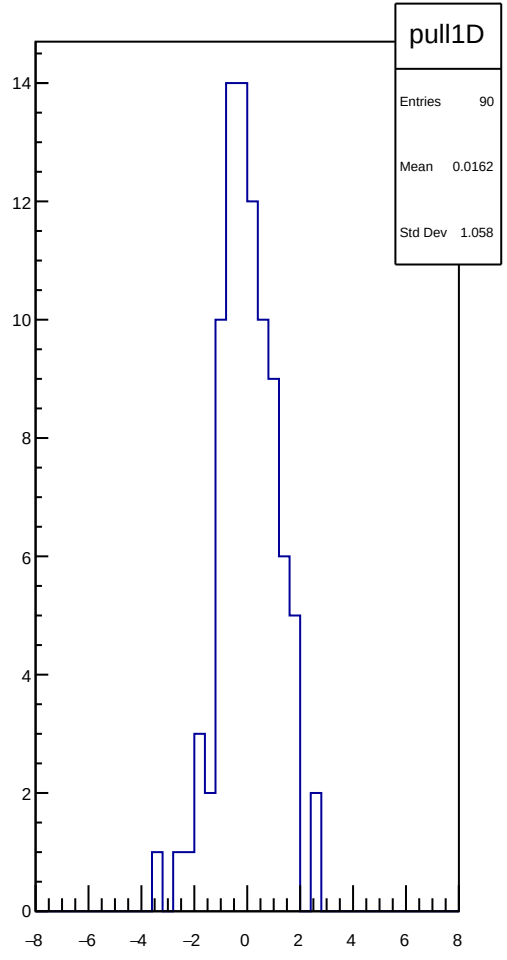

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 144.7 / 89
p0 1667 ± 1.257
1720
1700
1680
1660
1640
1620

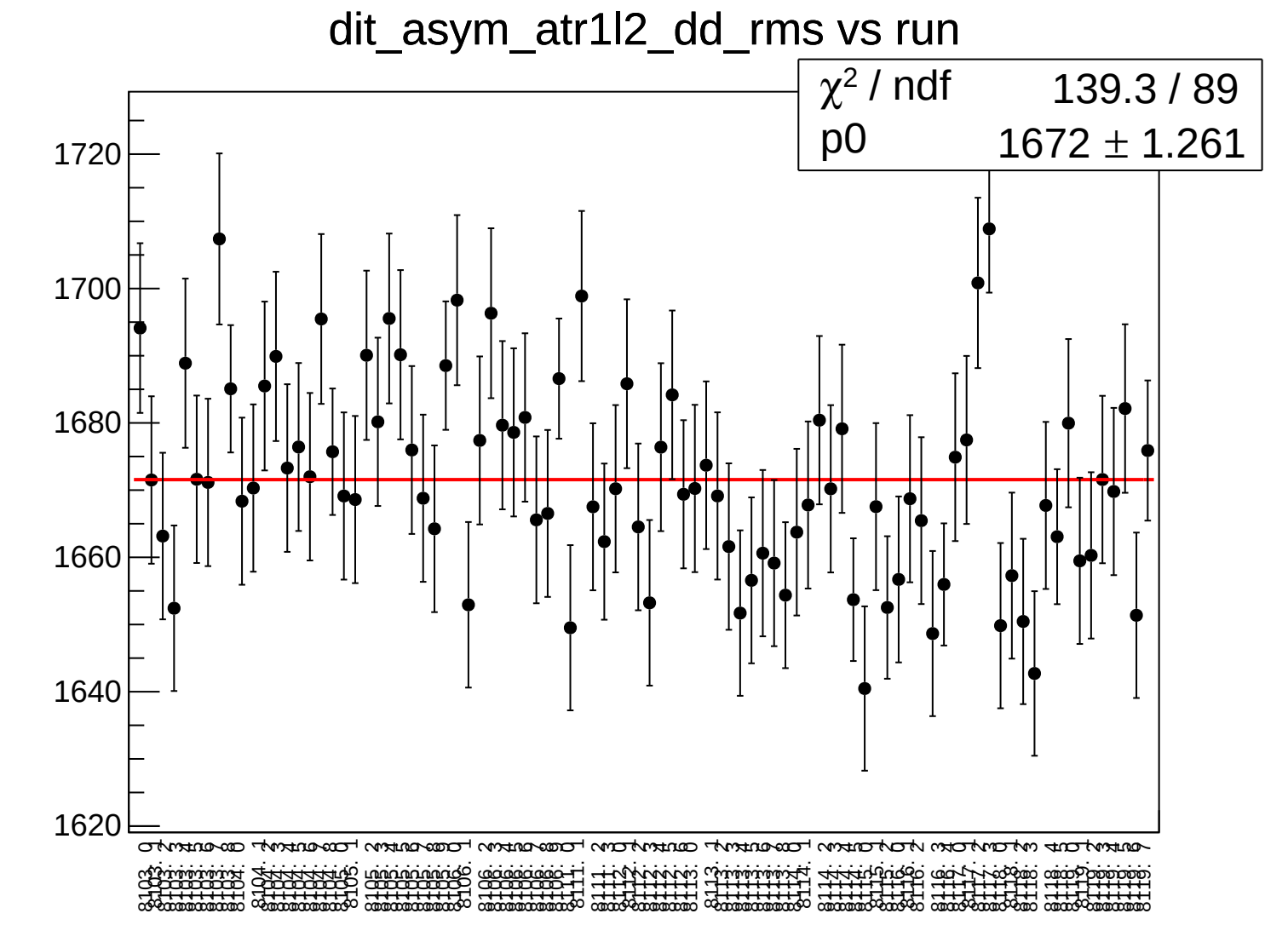

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.08 / 89
p0 −4917 ± 4421
200
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 1164
Std Dev 0
3
2
1
0
−1
−2

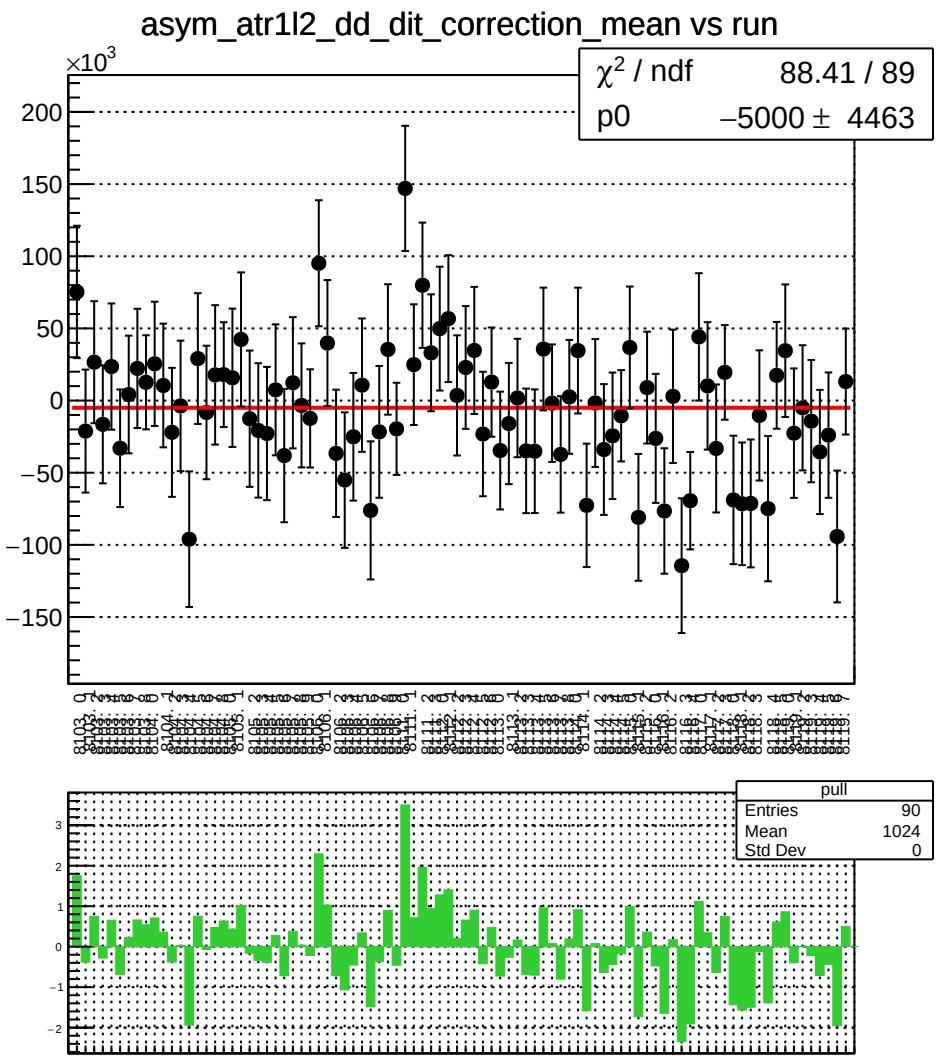

pull1D
Entries 90
Mean −0.006572
Std Dev 0.9948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

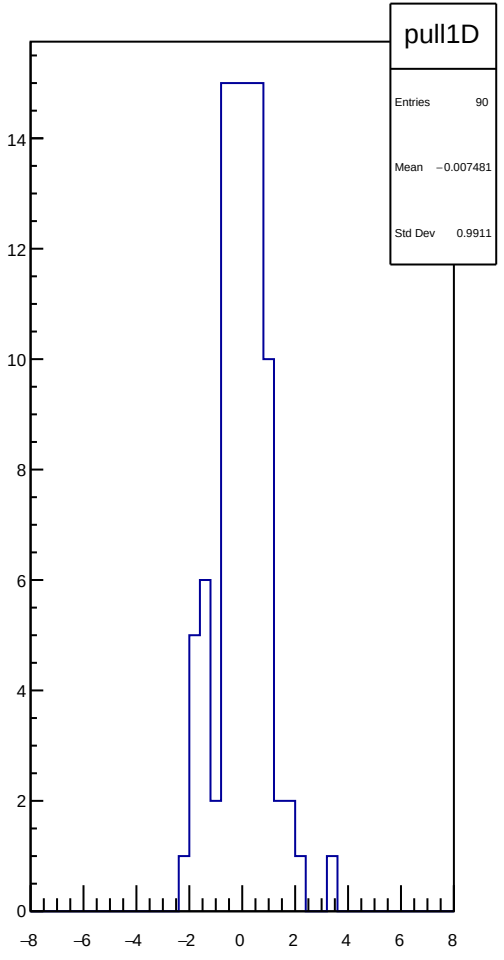

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3066 / 89
p0 4142 ± 3.126
4600
4400
4200
4000
3800

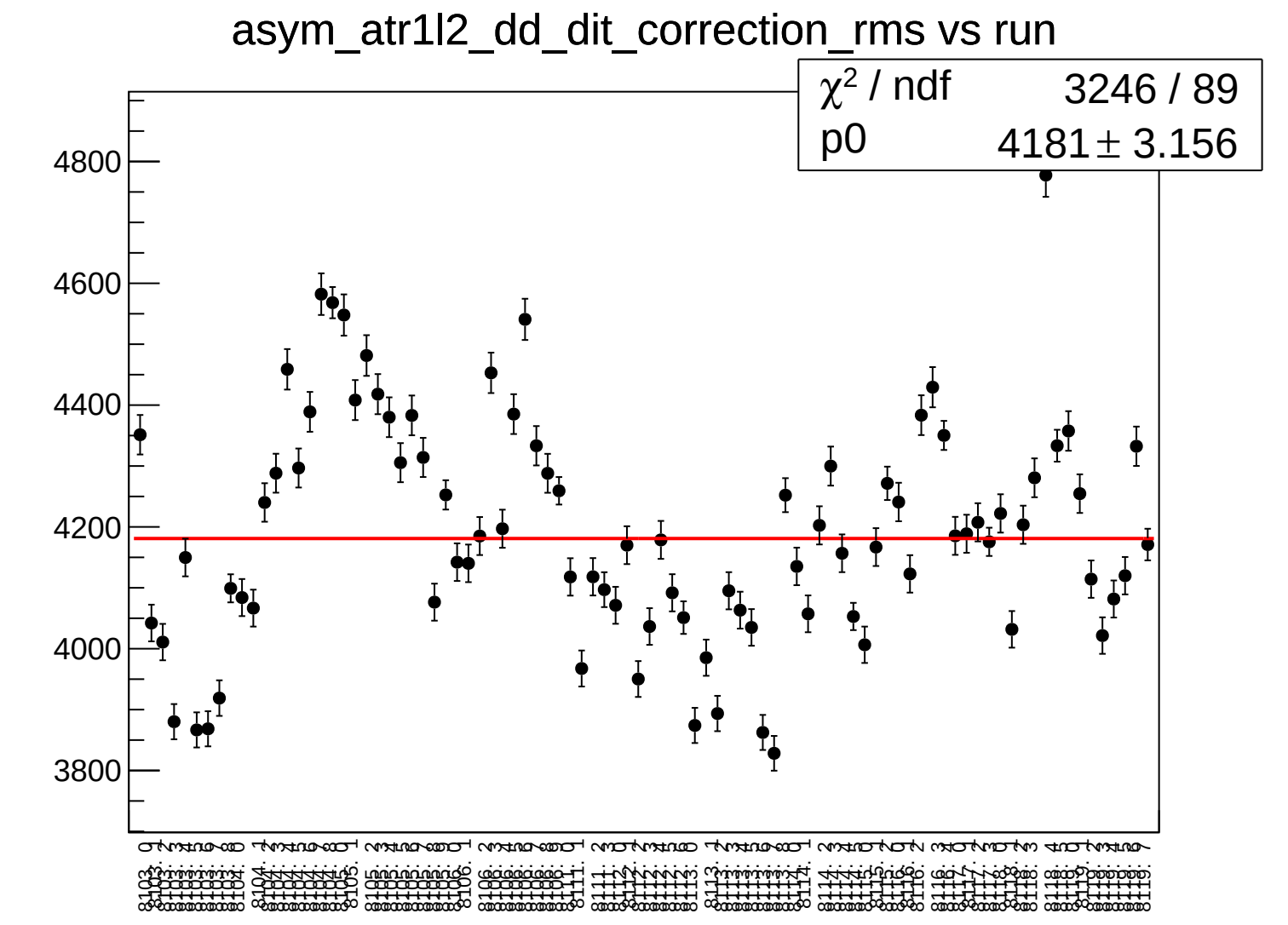

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 100.7 / 89
p0 −247.5 ± 1783
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −284.7
Std Dev 0
3
2
1
0
−1
−2
−3

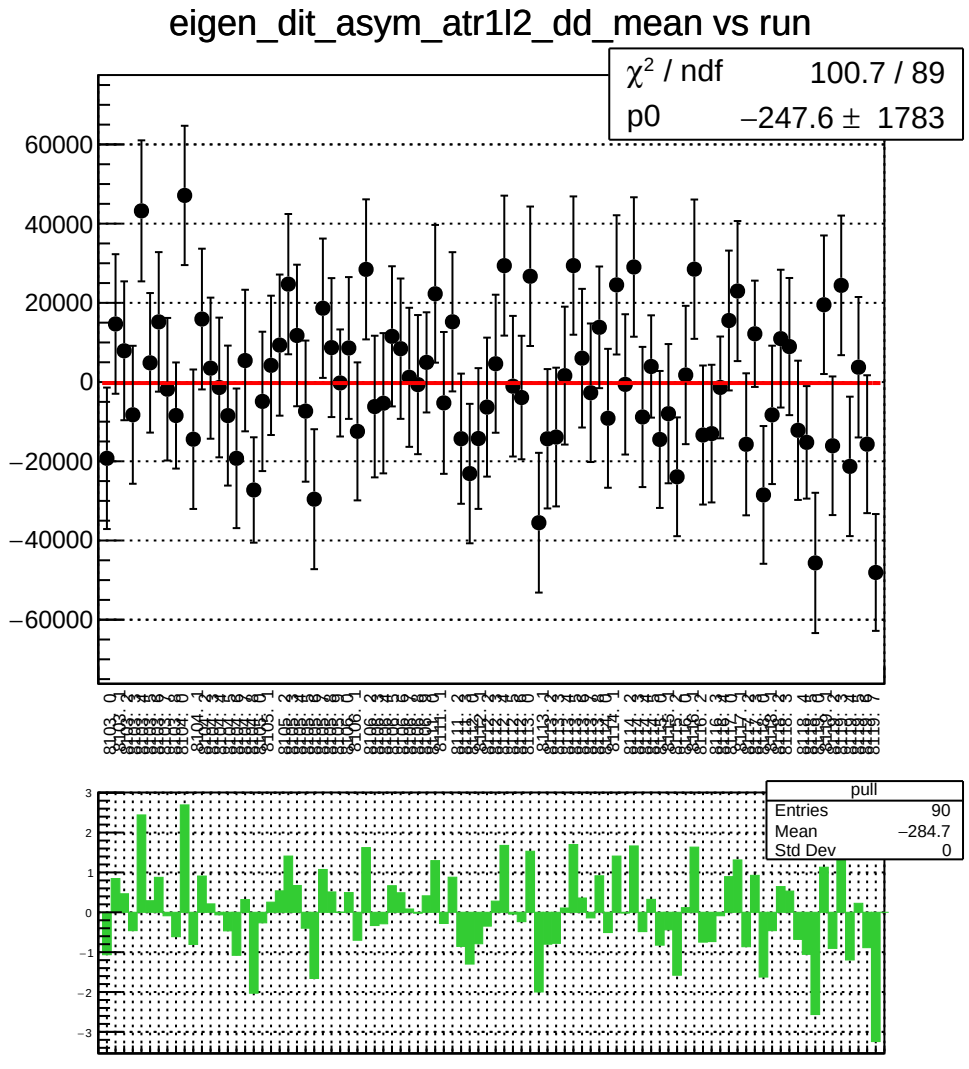

pull1D
Entries 90
Mean 0.0162
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

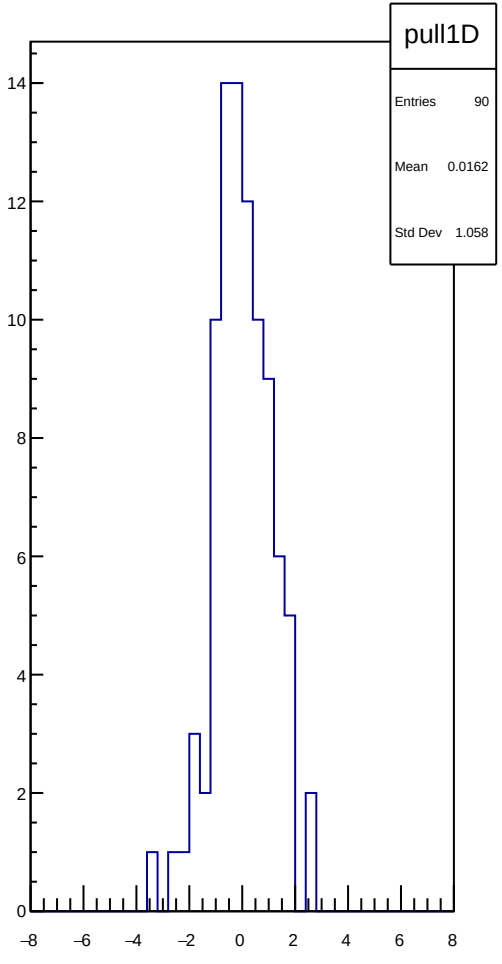

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 139.3 / 89
p0 1672 ± 1.261
1720
1700
1680
1660
1640
1620


asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.41 / 89
p0 −5000 ± 4463
pull
Entries 90
Mean 1024
Std Dev 0


pull1D
Entries 90
Mean −0.007481
Std Dev 0.9911


asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3246 / 89
p0 4181 ± 3.156
4800
4600
4400
4200
4000
3800


eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 100.7 / 89
p0 −247.6 ± 1783
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −284.7
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.0162
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
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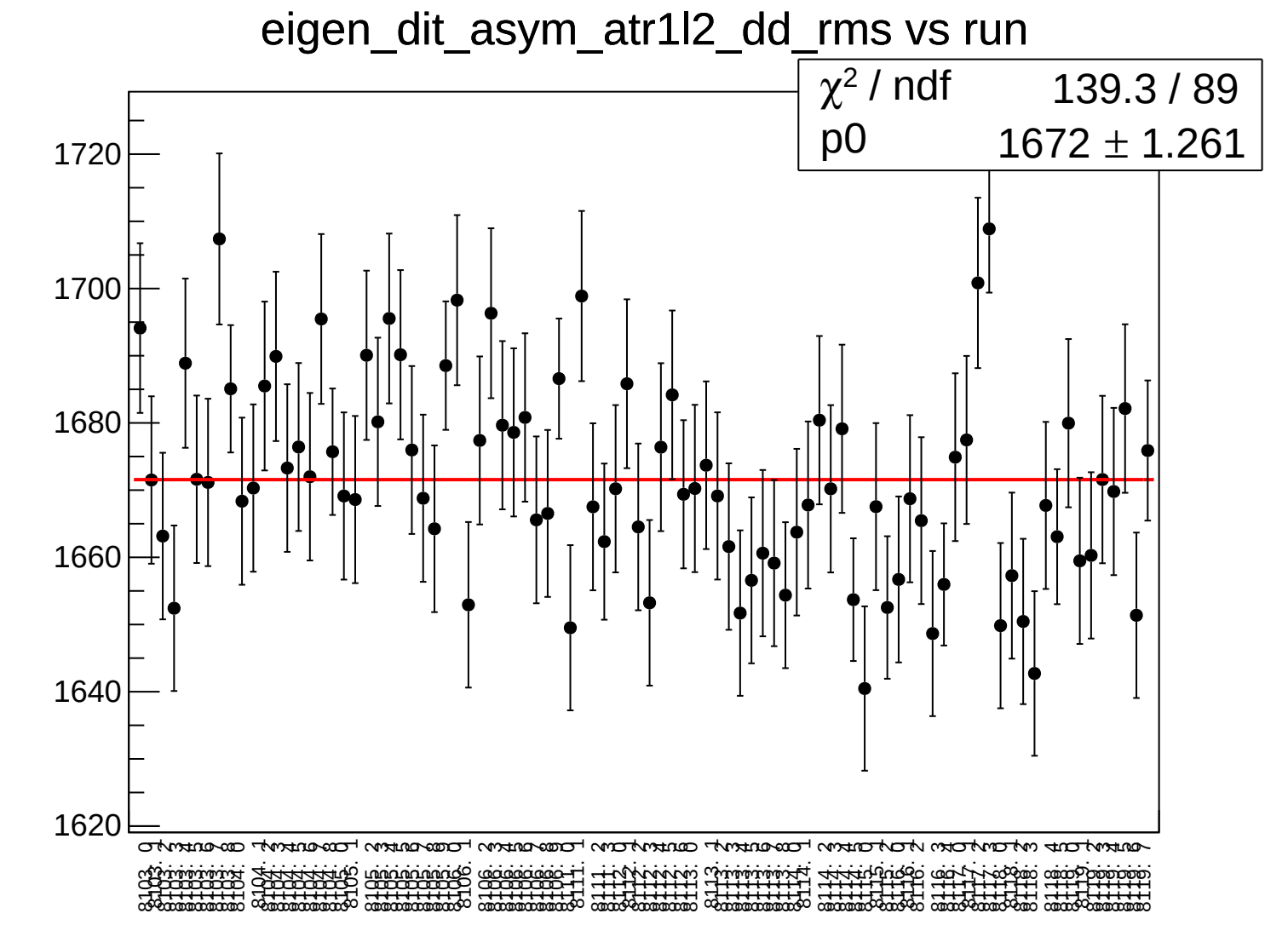
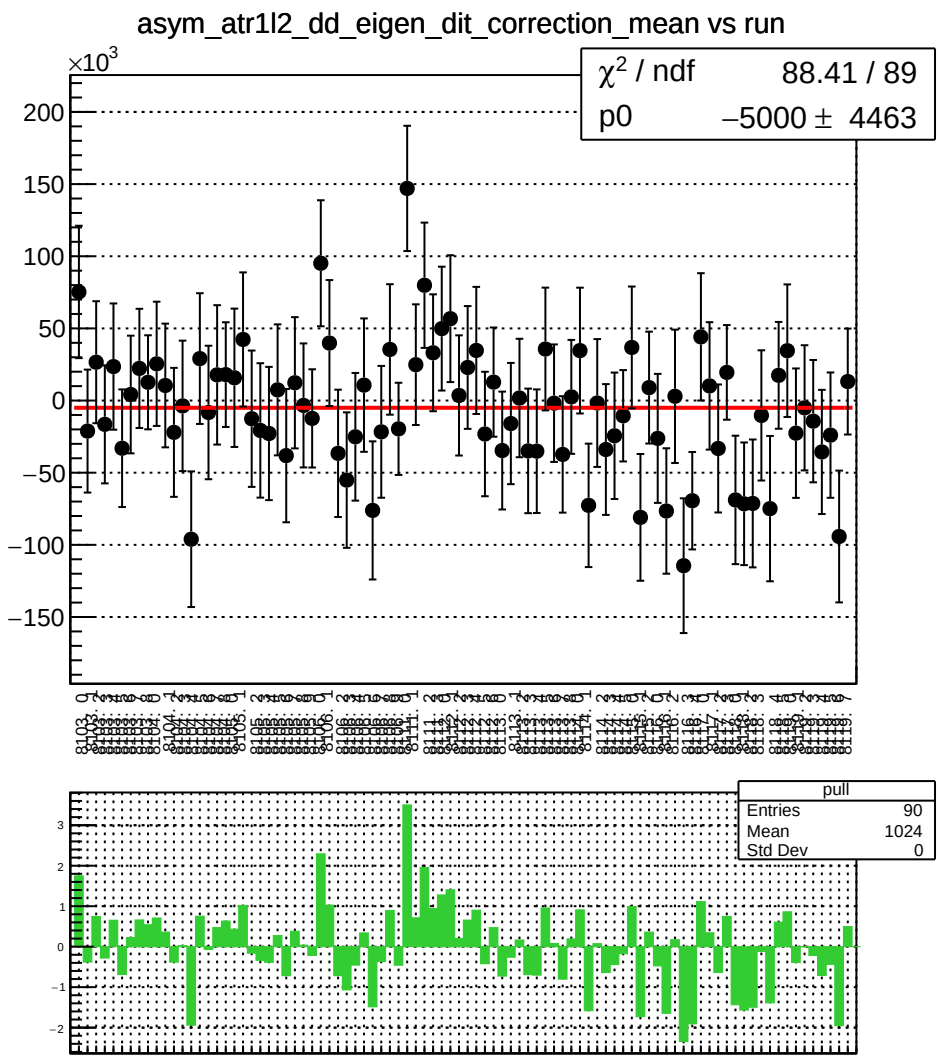
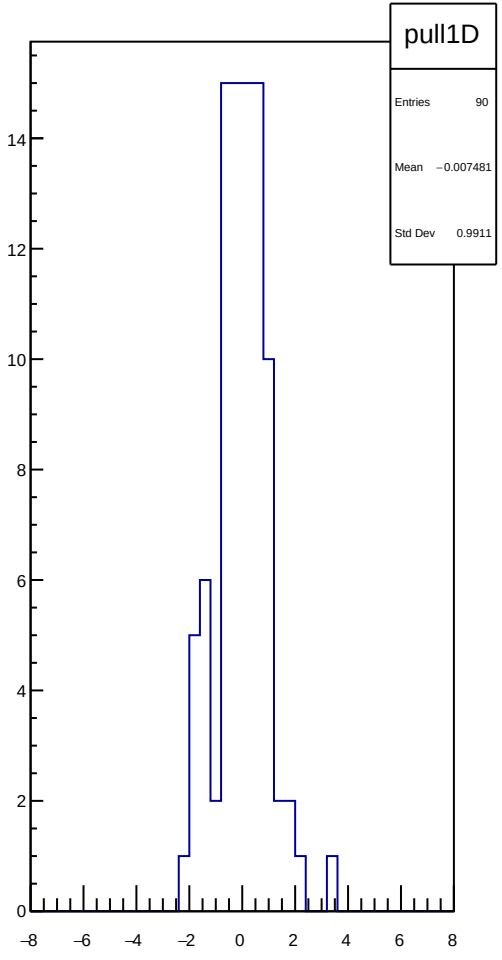
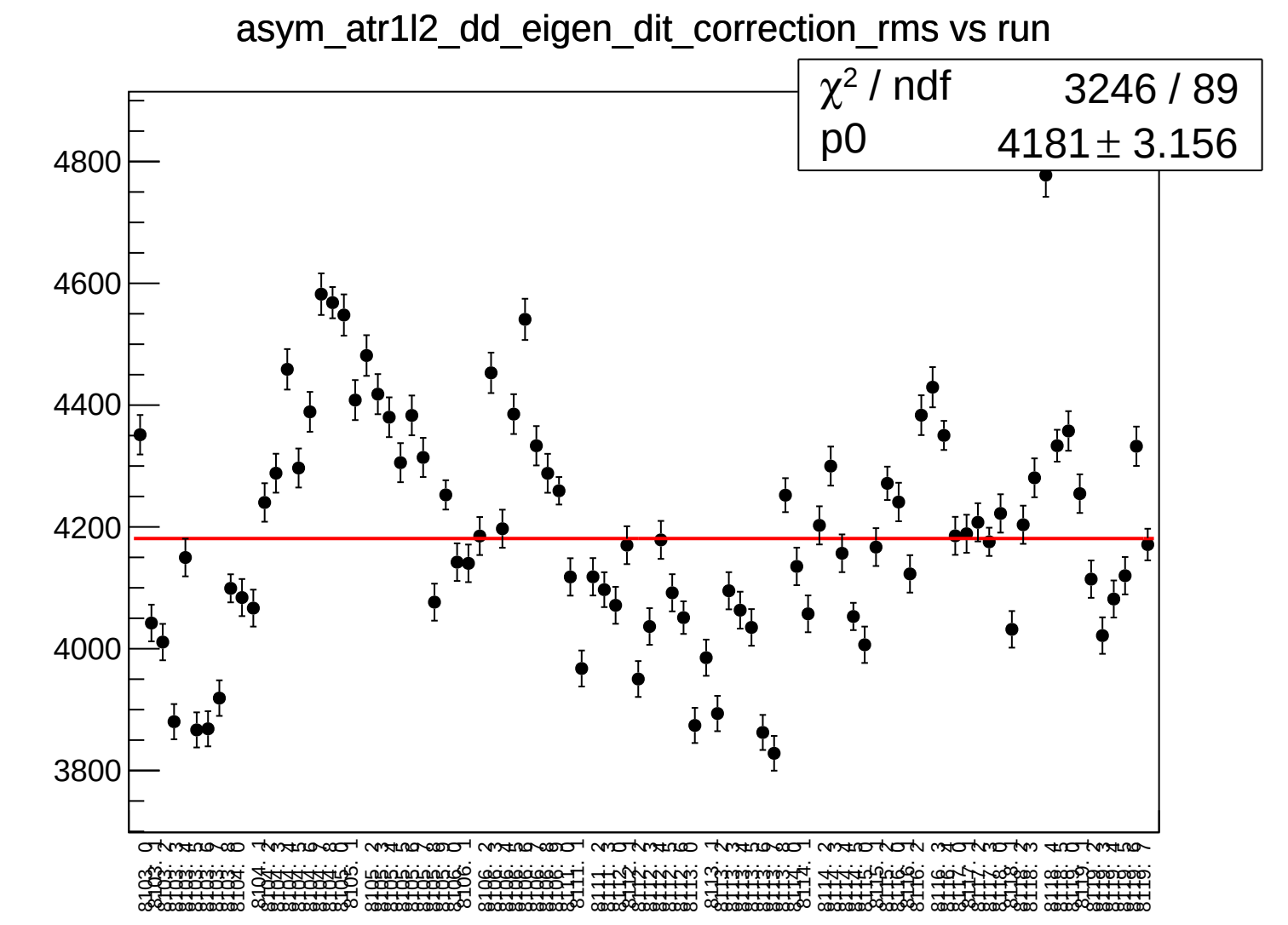
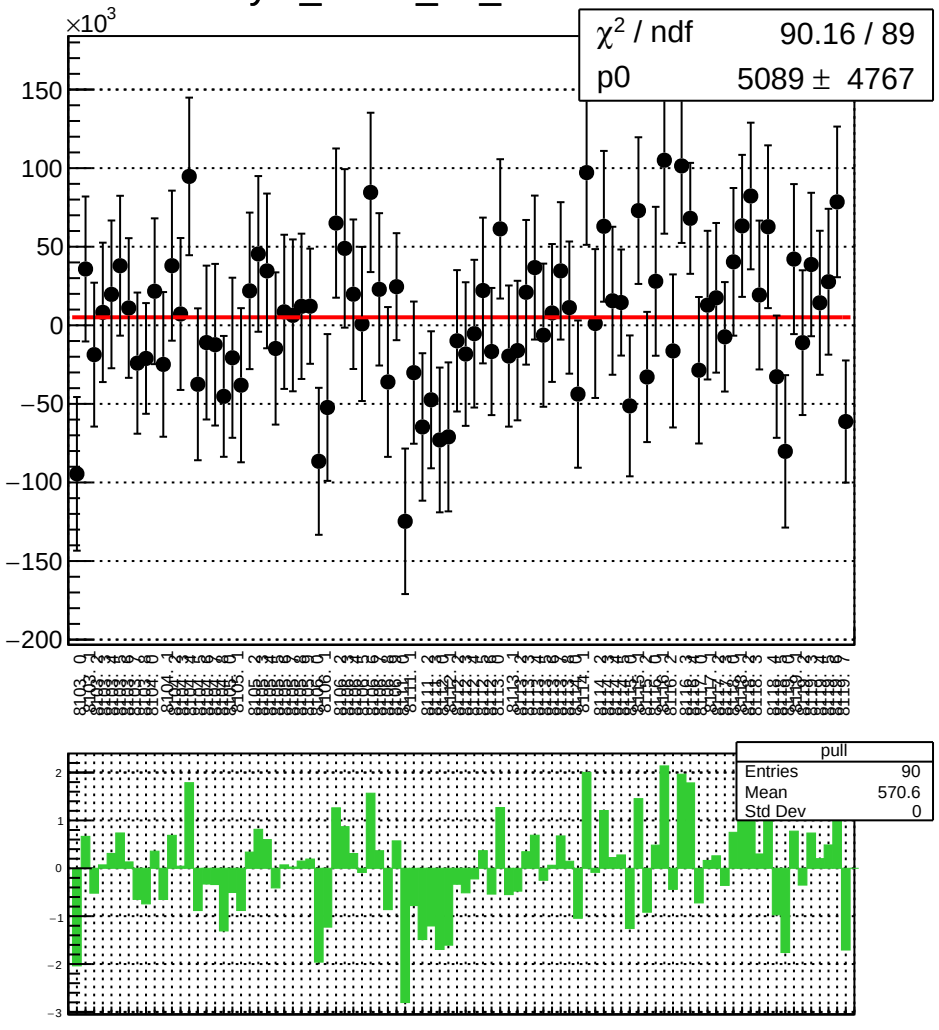
2
4
6
8

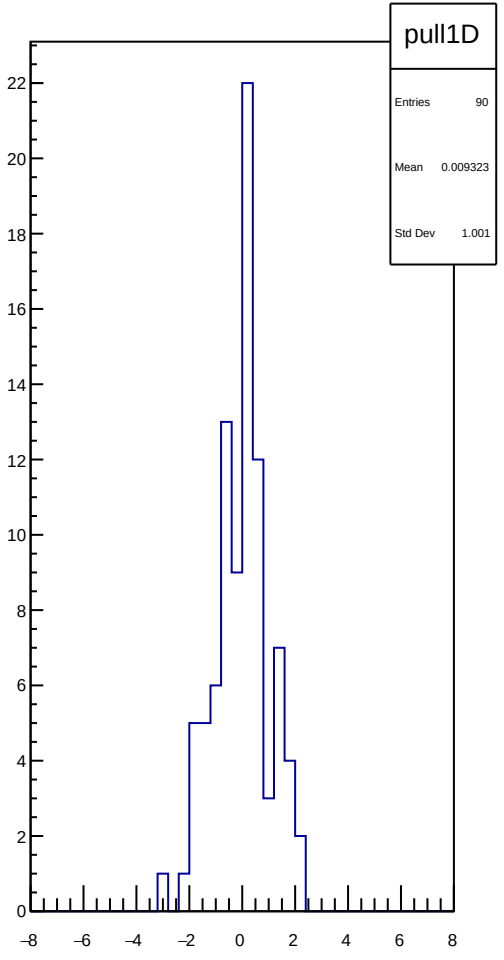

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 139.3 / 89
p0 1672 ± 1.261
1720
1700
1680
1660
1640
1620

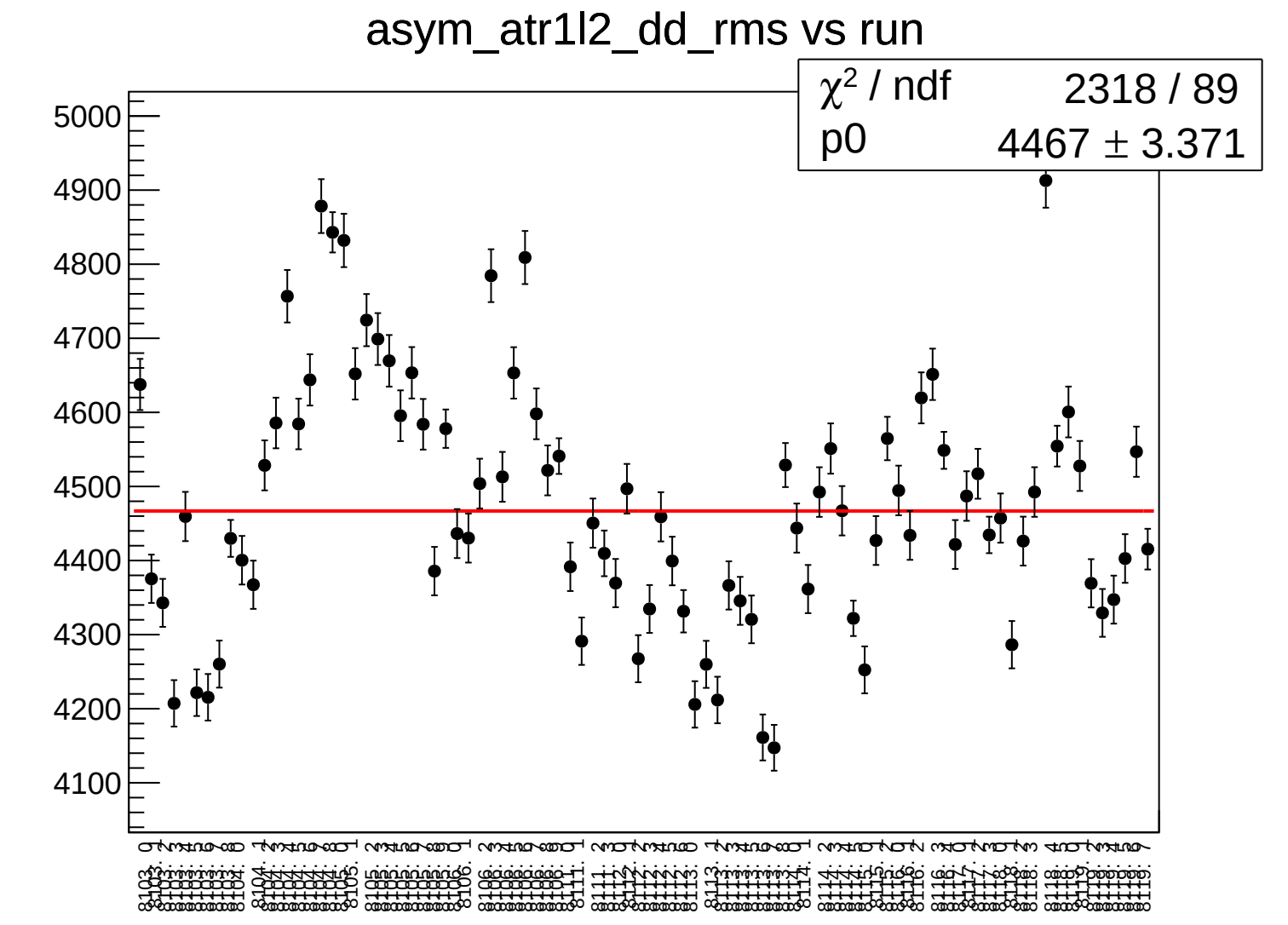

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.41 / 89
p0 −5000 ± 4463
200
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 1024
Std Dev 0
3
2
1
0
−1
−2

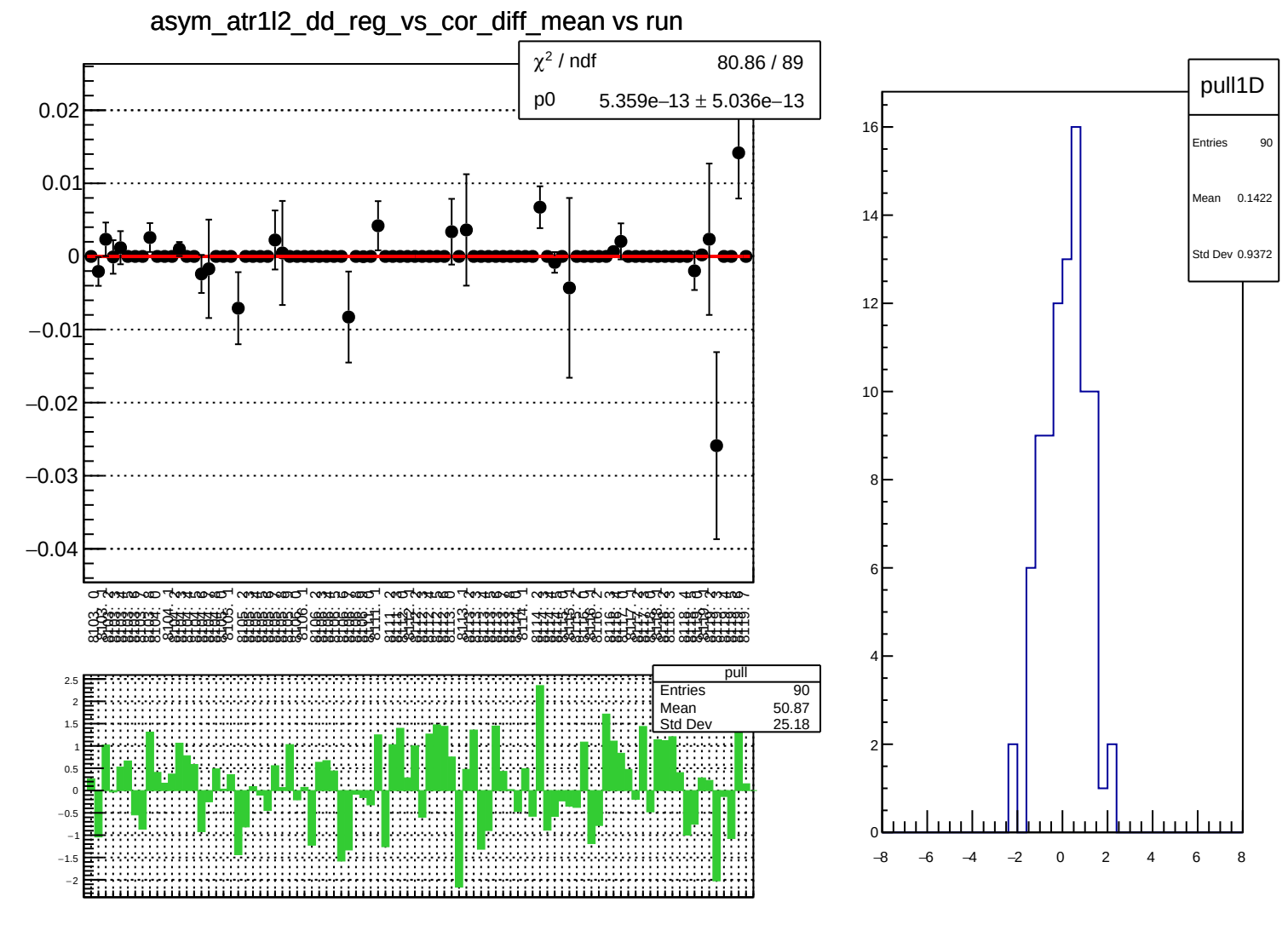

pull1D
Entries 90
Mean −0.007481
Std Dev 0.9911
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

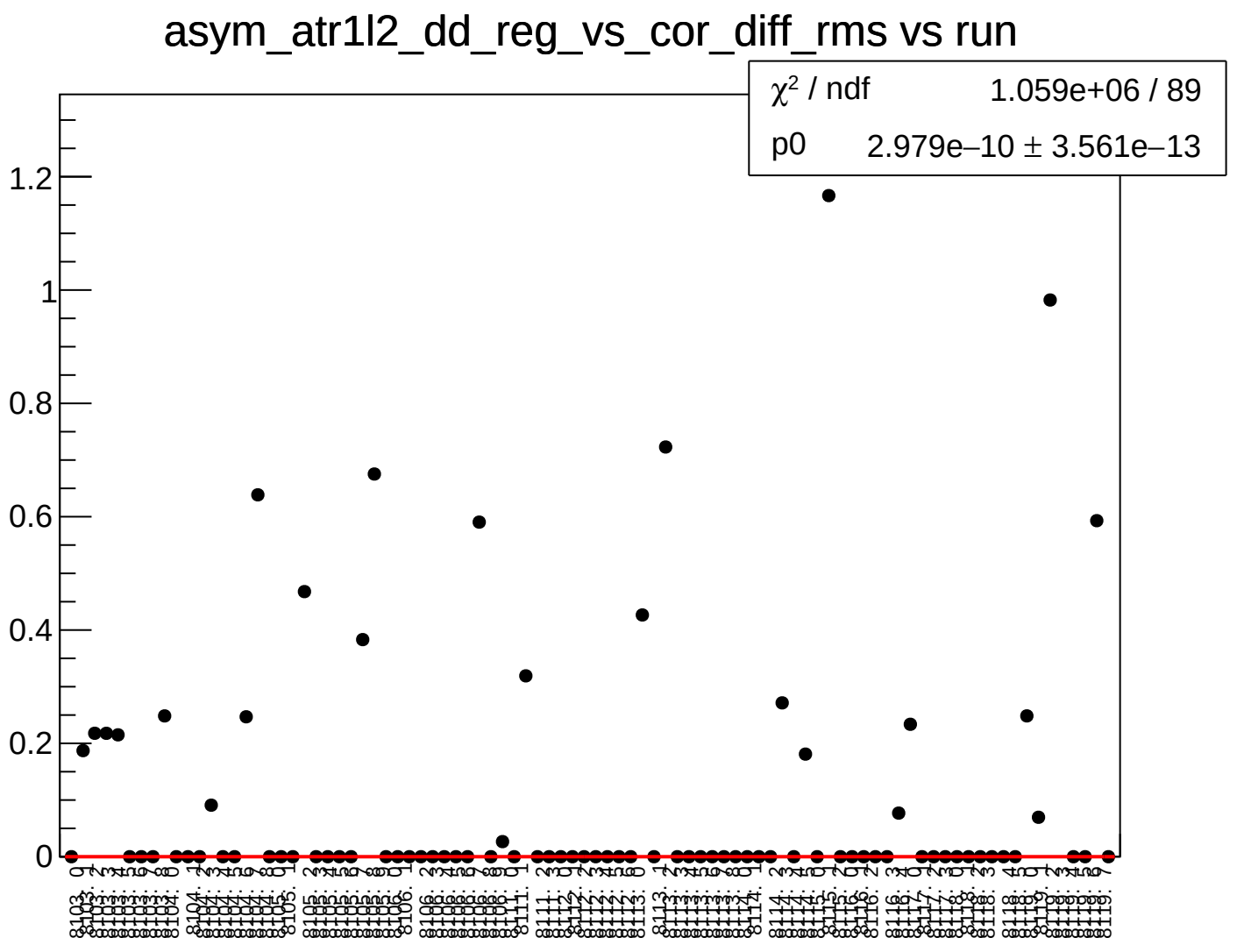

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3246 / 89
p0 4181 ± 3.156
4800
4600
4400
4200
4000
3800

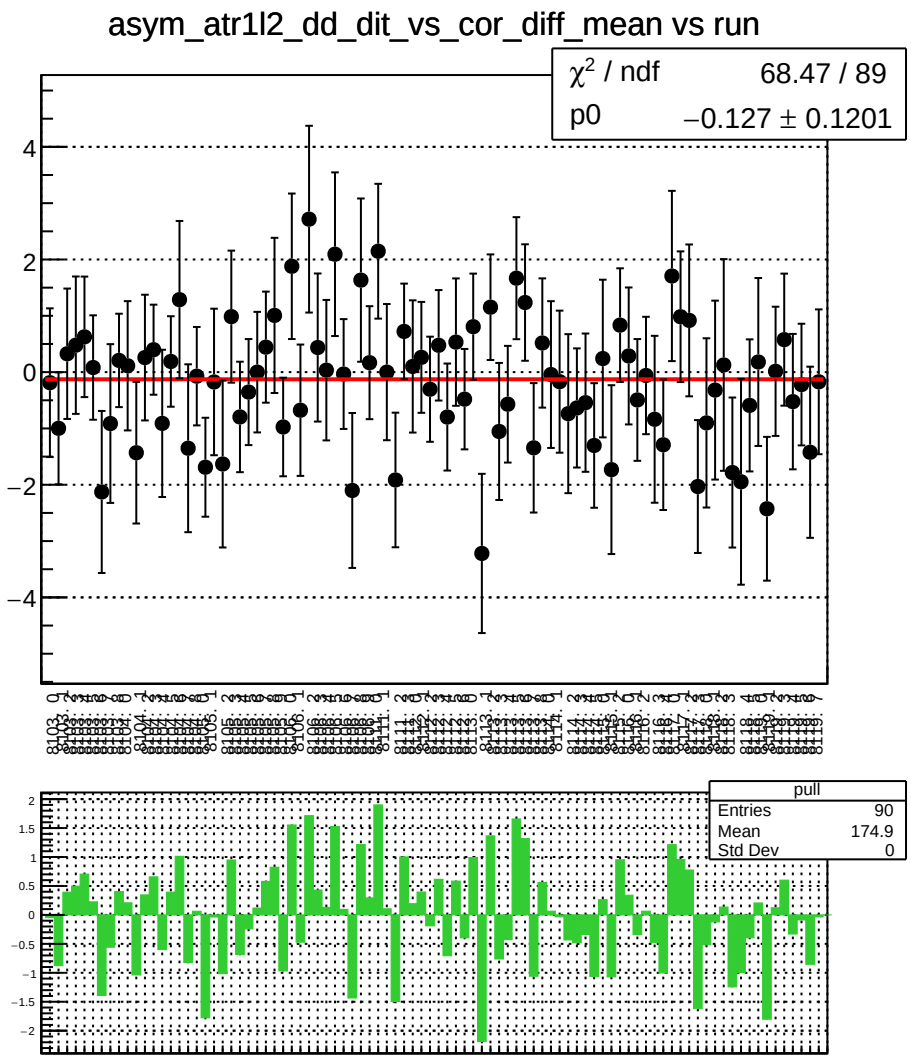

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 90.16 / 89
p0 5089 ± 4767
pull
Entries 90
Mean 570.6
Std Dev 0

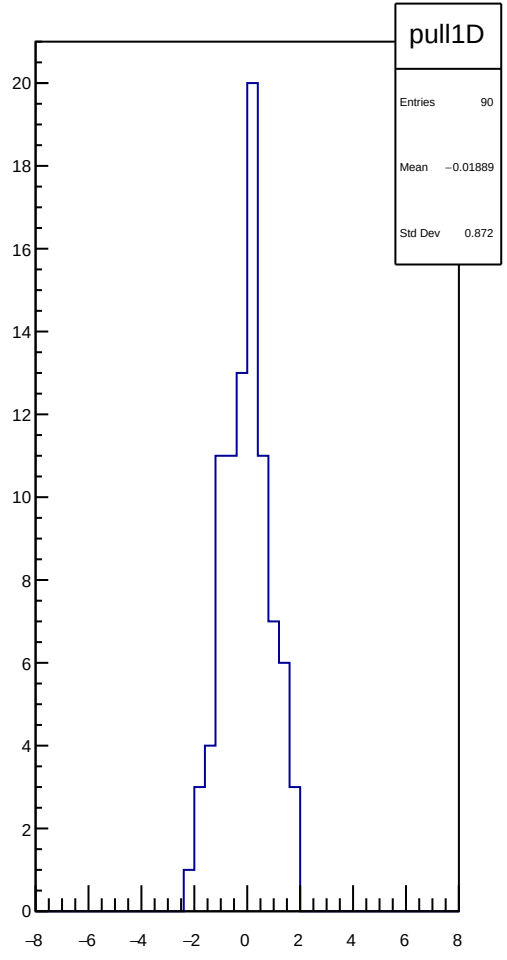

pull1D
Entries 90
Mean 0.009323
Std Dev 1.001

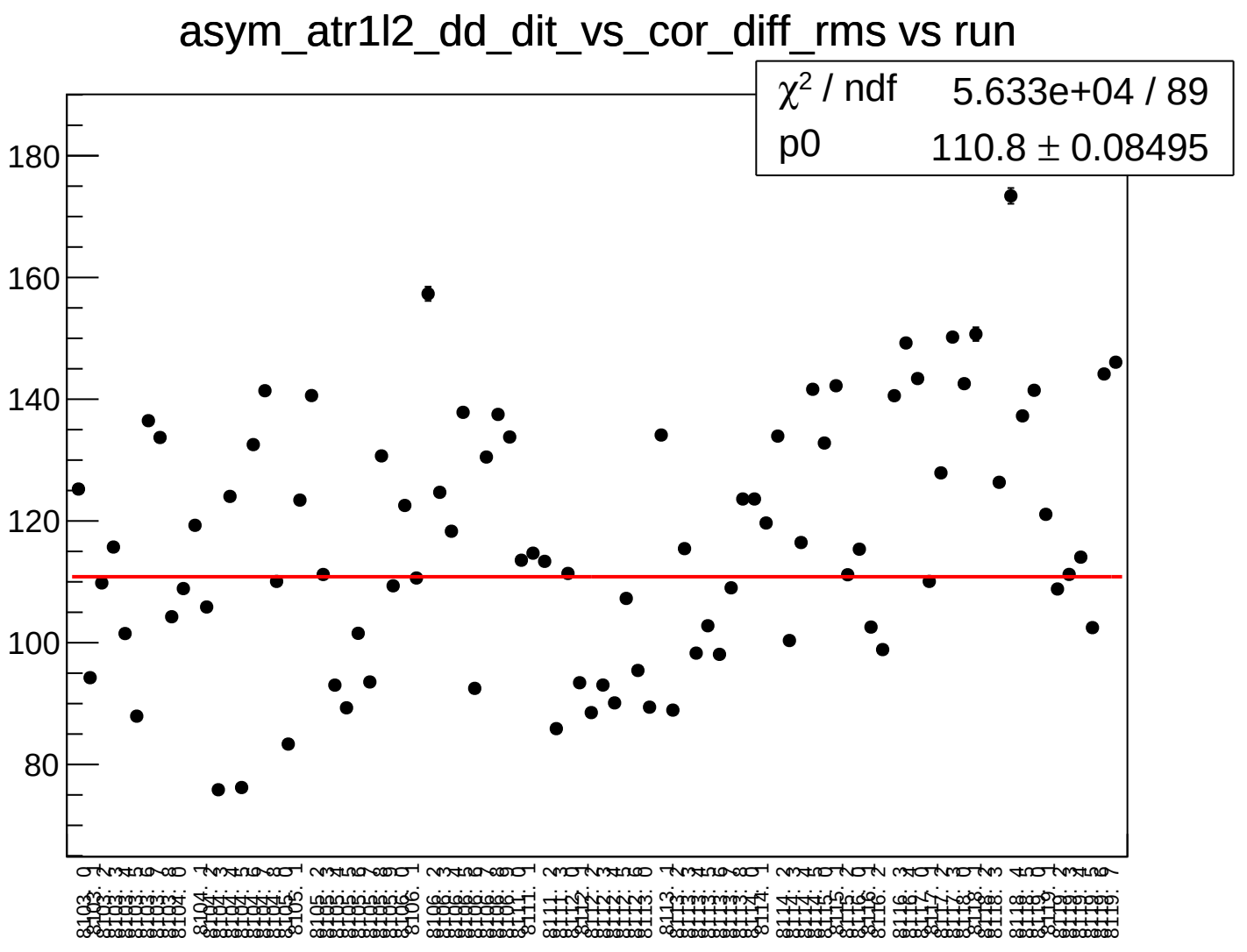

asym_atr1l2_dd_rms vs run
χ² / ndf 2318 / 89
p0 4467 ± 3.371
5000
4900
4800
4700
4600
4500
4400
4300
4200
4100

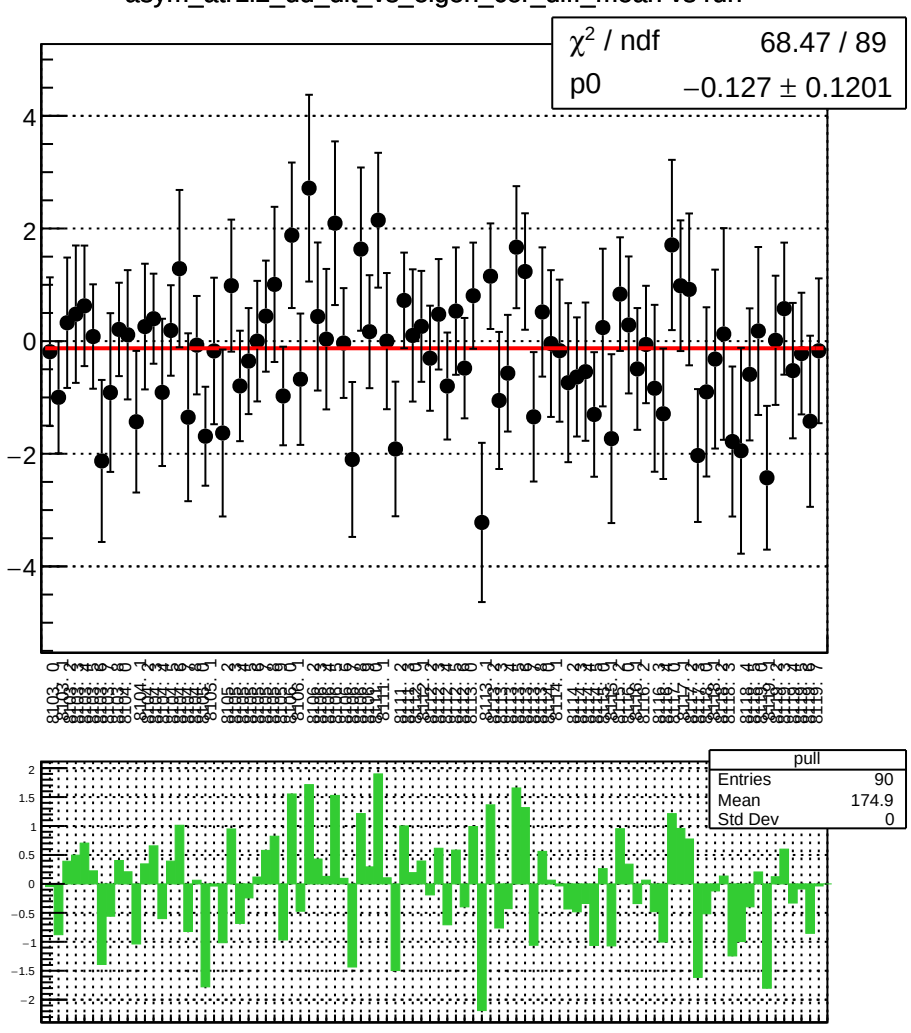

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.86 / 89
p0 5.359e−13 ± 5.036e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 90
Mean 50.87
Std Dev 25.18
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.1422
Std Dev 0.9372
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

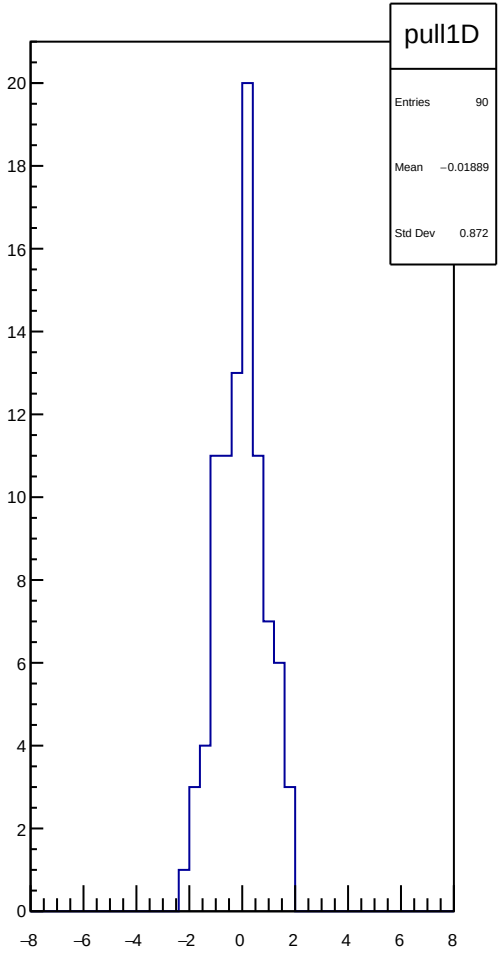

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.059e+06 / 89
p0 2.979e−10 ± 3.561e−13
1.2
1
0.8
0.6
0.4
0.2
0

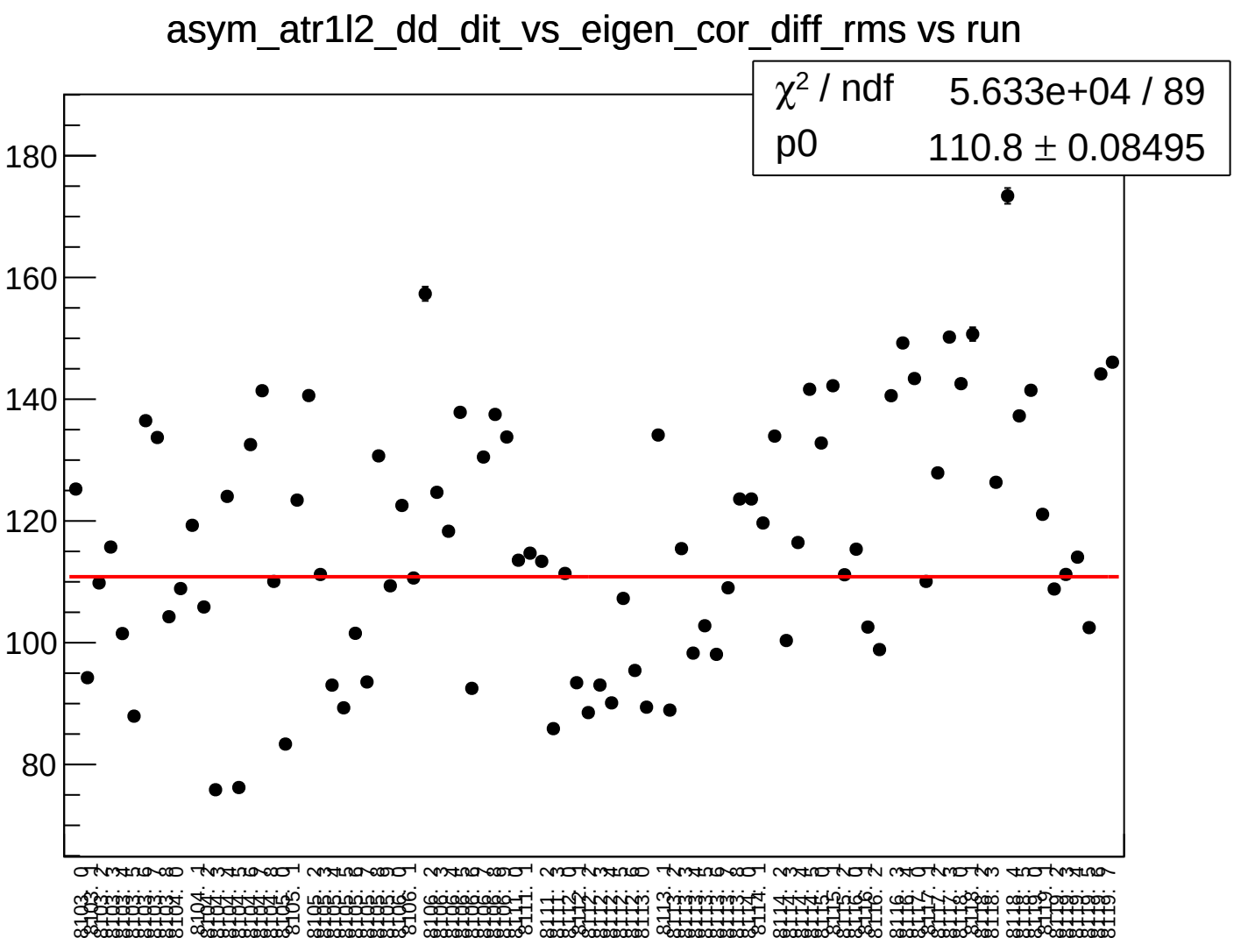

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.47 / 89
p0 −0.127 ± 0.1201
pull
Entries 90
Mean 174.9
Std Dev 0

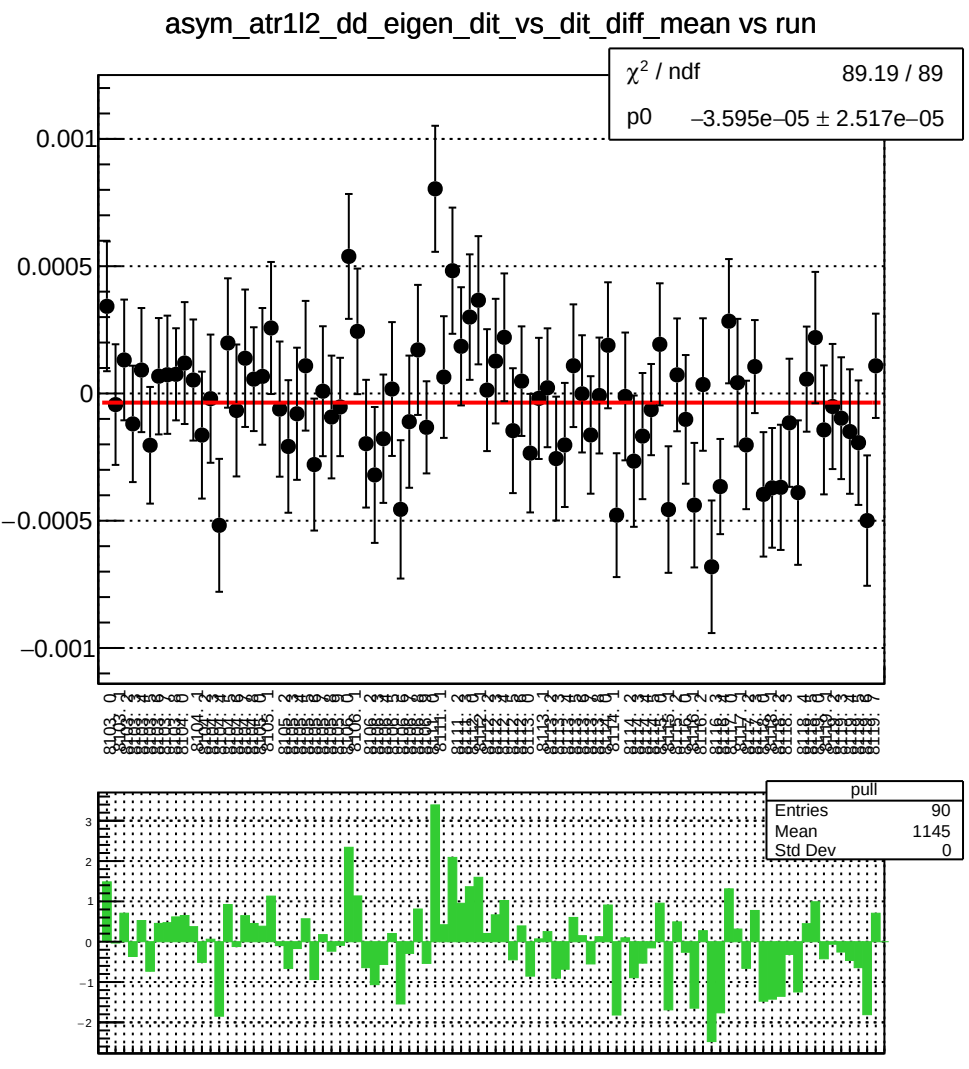

pull1D
Entries 90
Mean −0.01889
Std Dev 0.872

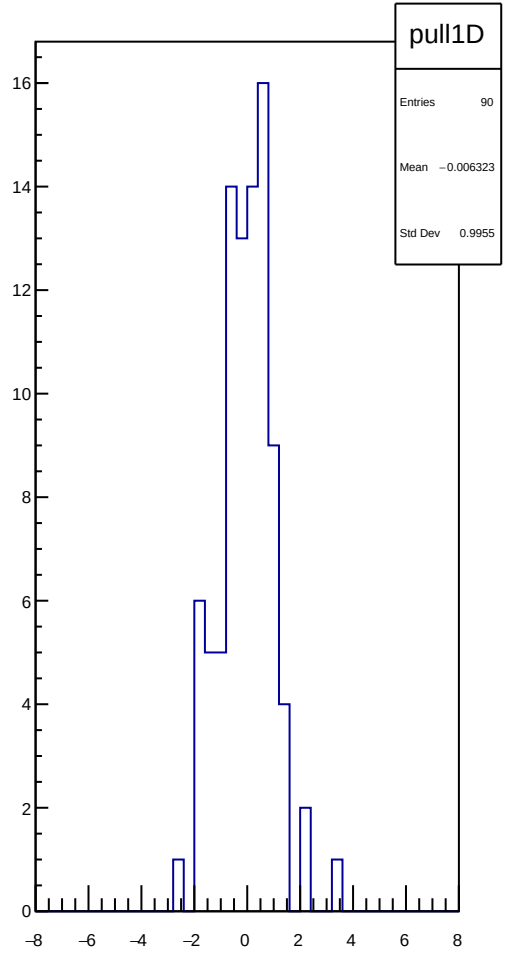

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.633e+04 / 89
p0 110.8 ± 0.08495
180
160
140
120
100
80

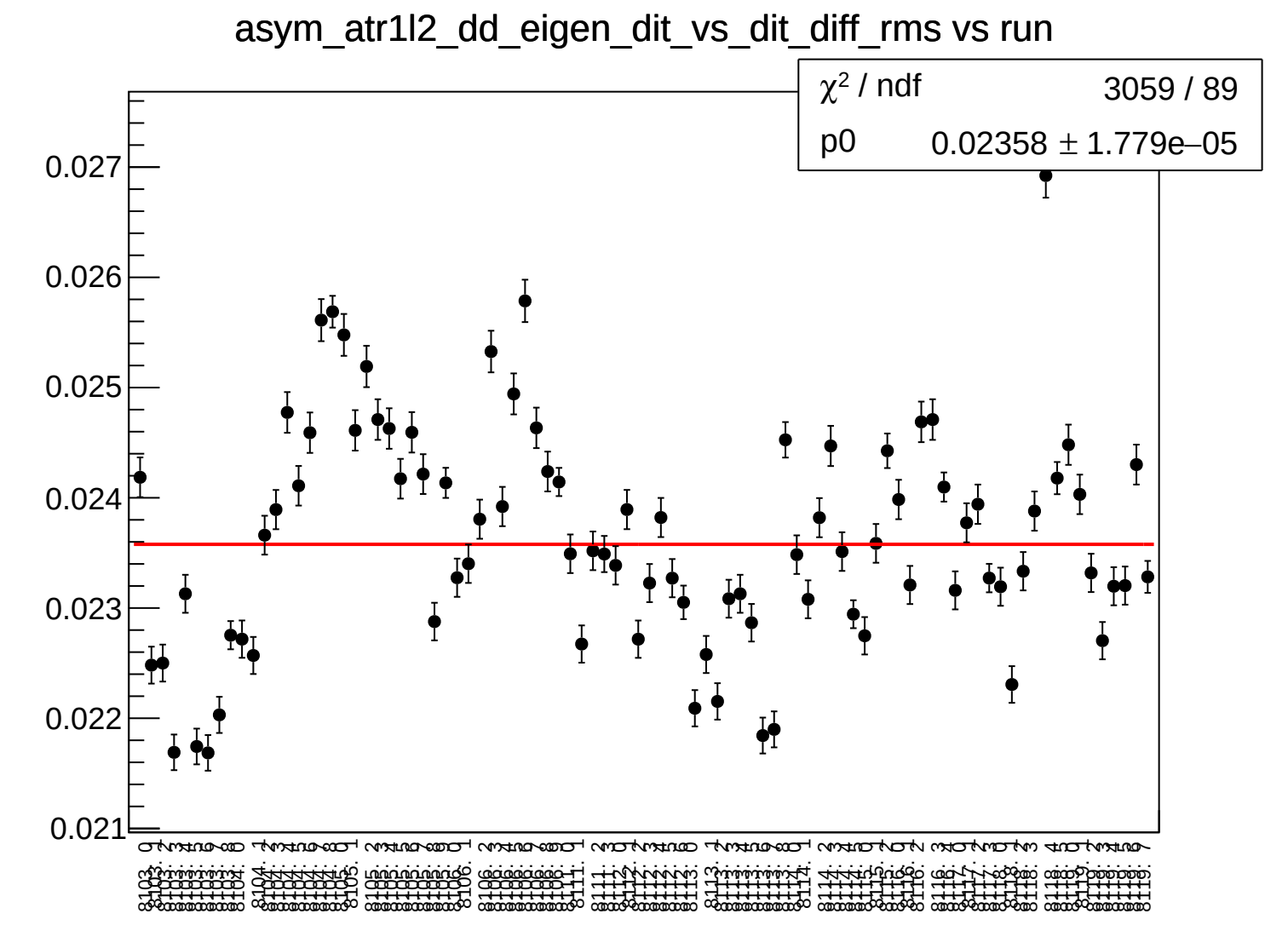

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.47 / 89
p0 −0.127 ± 0.1201
pull
Entries 90
Mean 174.9
Std Dev 0

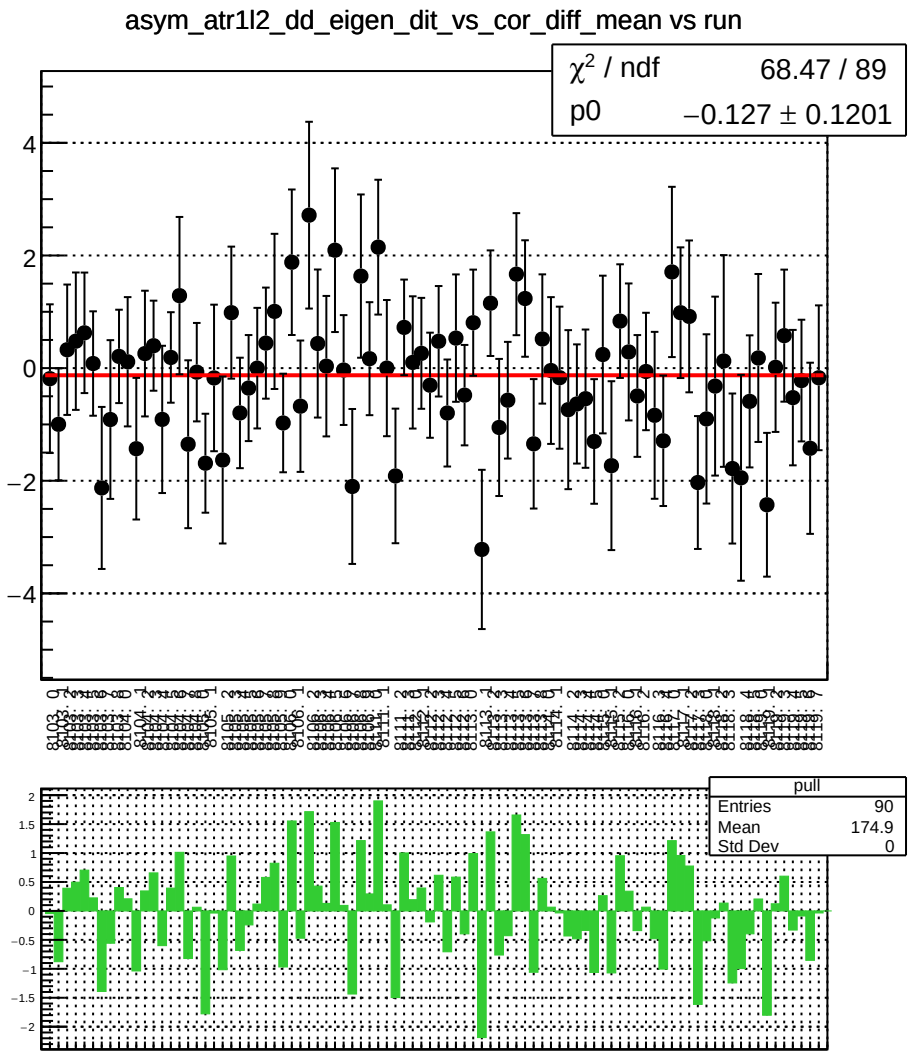

pull1D
Entries 90
Mean −0.01889
Std Dev 0.872

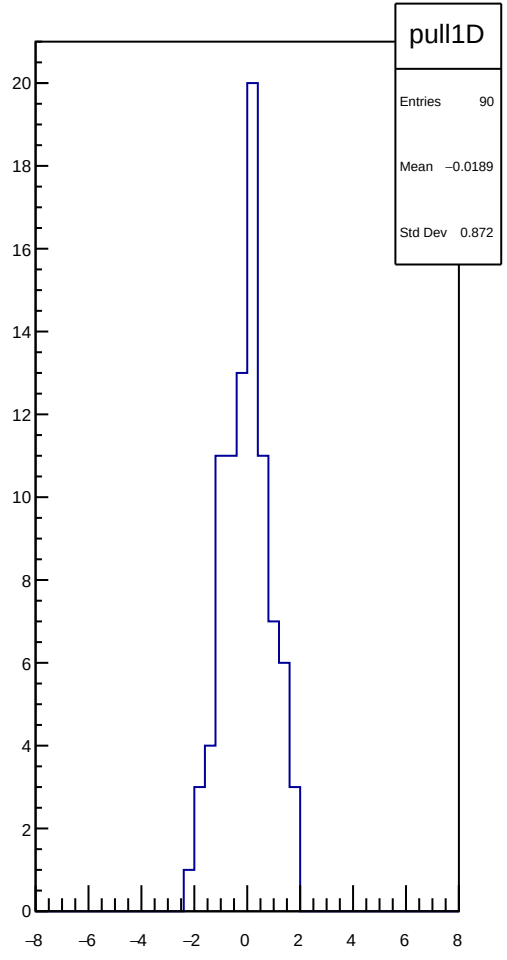

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.633e+04 / 89
p0 110.8 ± 0.08495
180
160
140
120
100
80

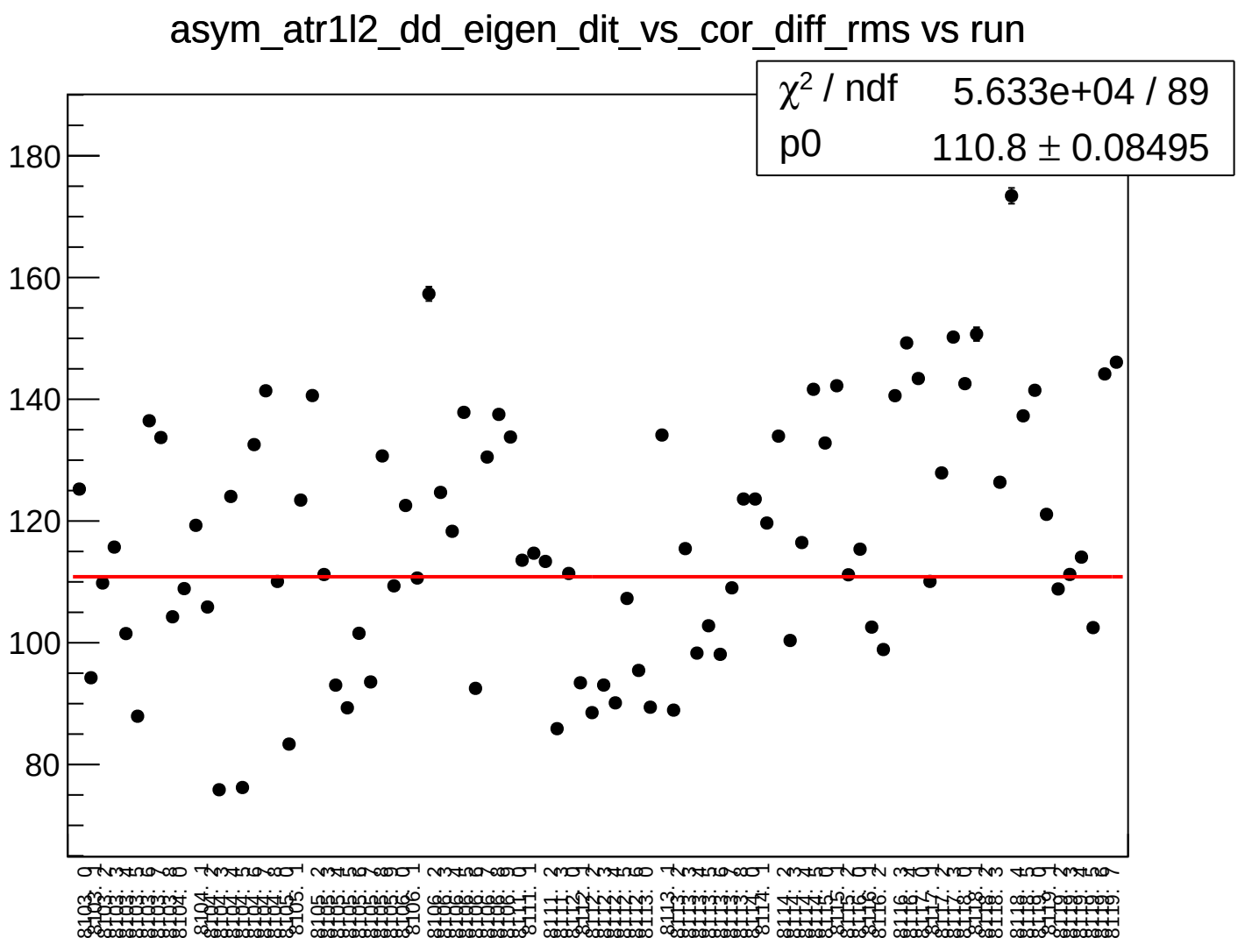

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.19 / 89
p0 −3.595e−05 ± 2.517e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 1145
Std Dev 0
3
2
1
0
−1
−2

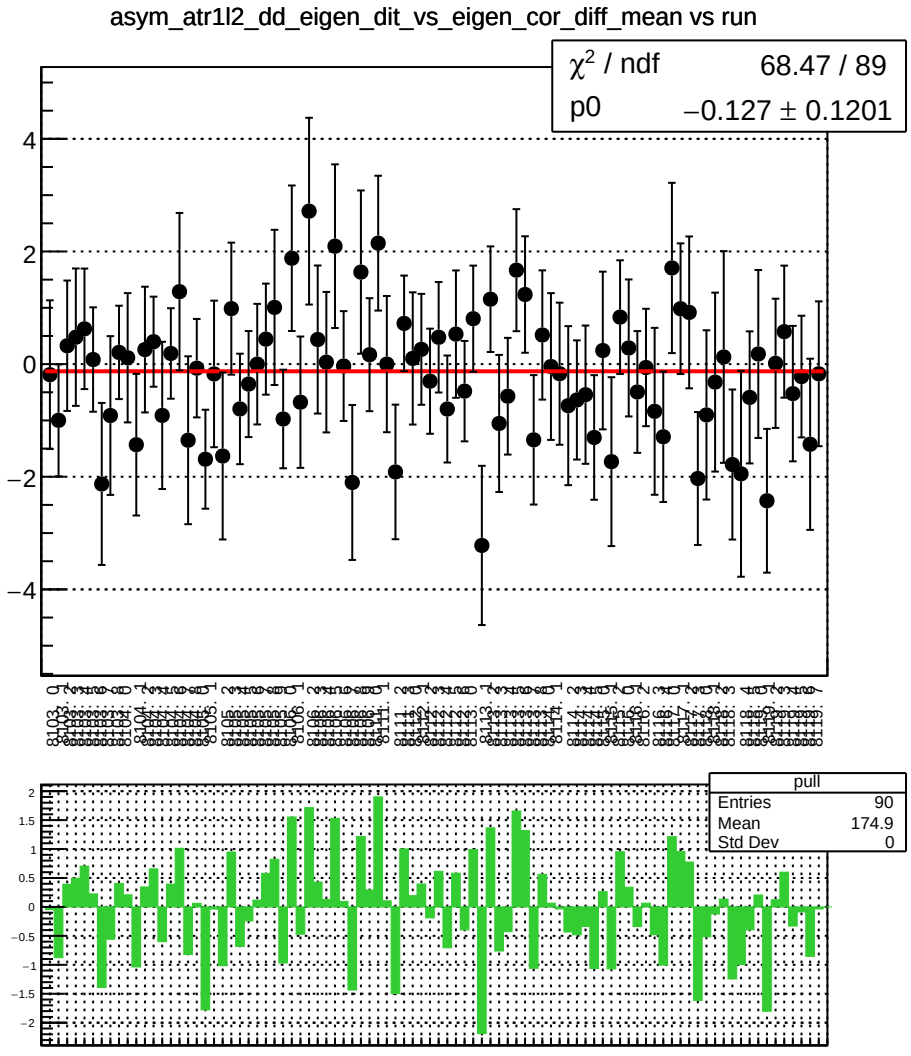

pull1D
Entries 90
Mean −0.006323
Std Dev 0.9955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

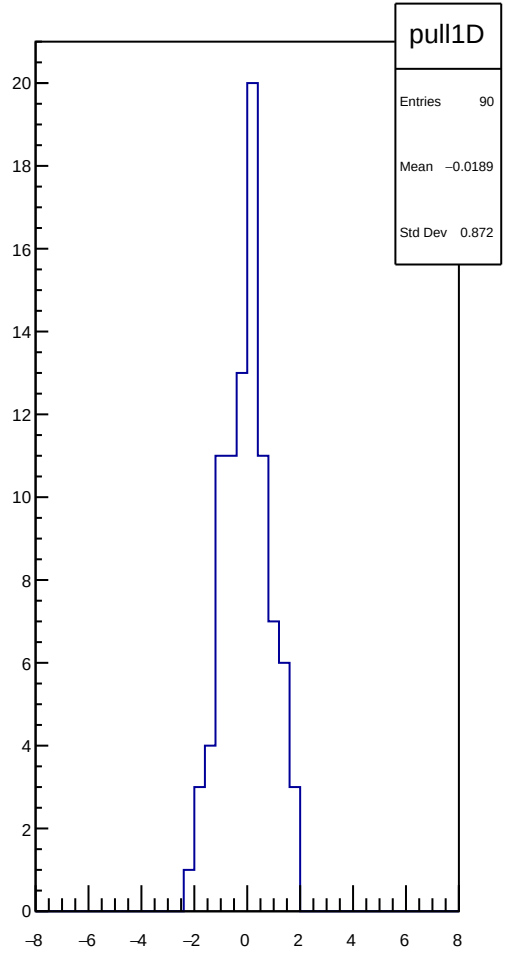

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3059 / 89
p0 0.02358 ± 1.779e−05
0.027
0.026
0.025
0.024
0.023
0.022
0.021

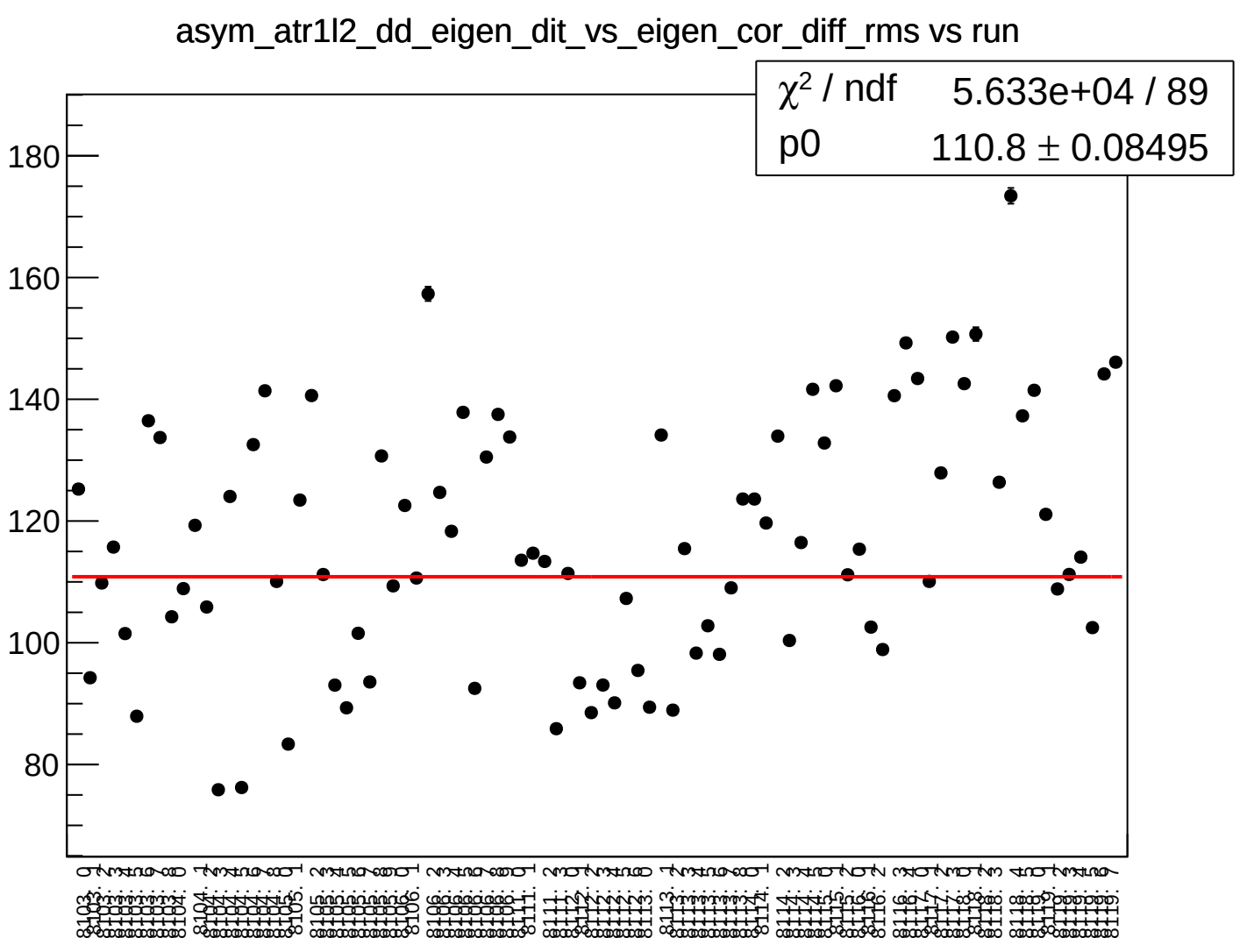

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.47 / 89
p0 −0.127 ± 0.1201
pull
Entries 90
Mean 174.9
Std Dev 0

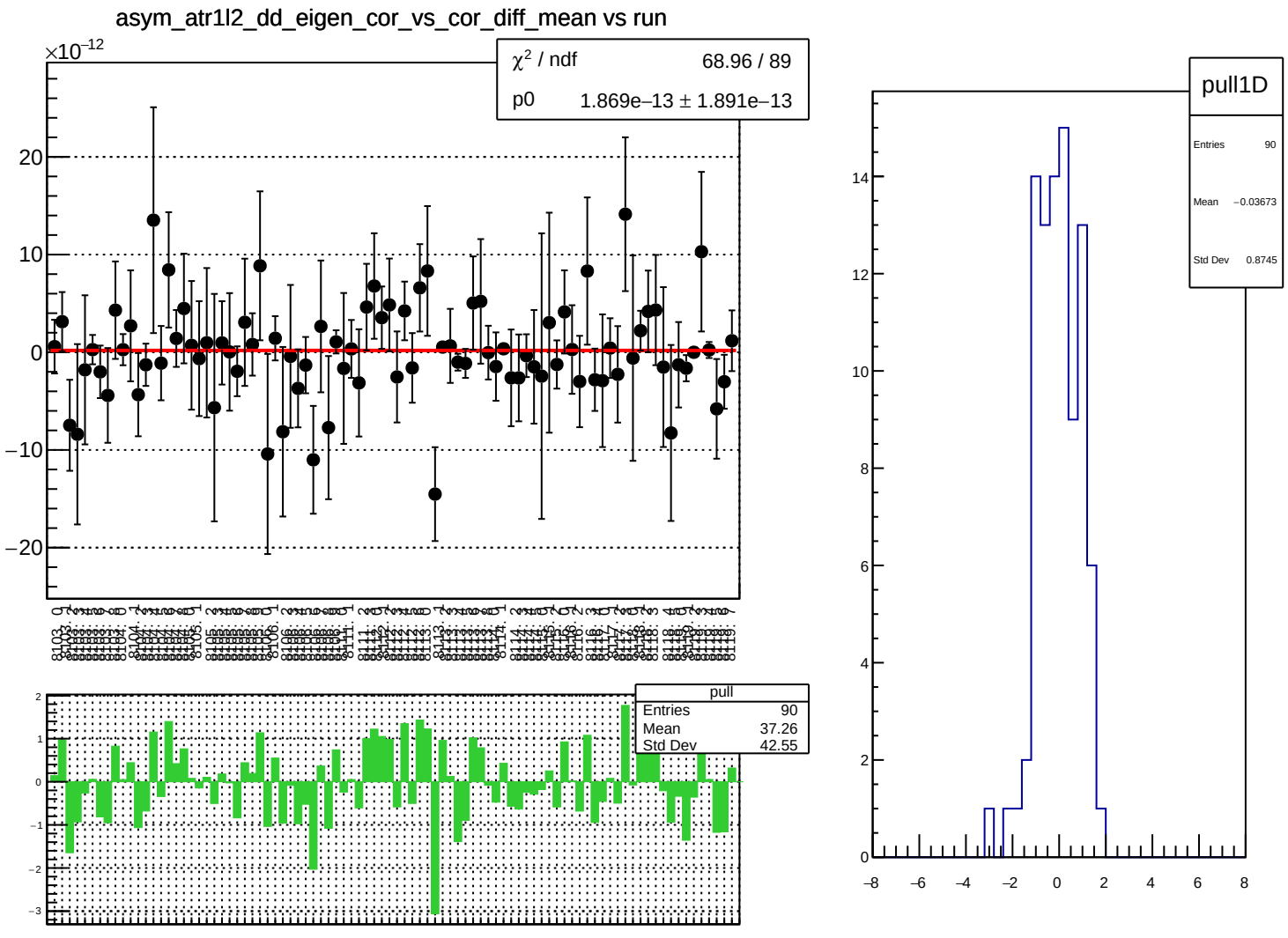

pull1D
Entries 90
Mean −0.0189
Std Dev 0.872

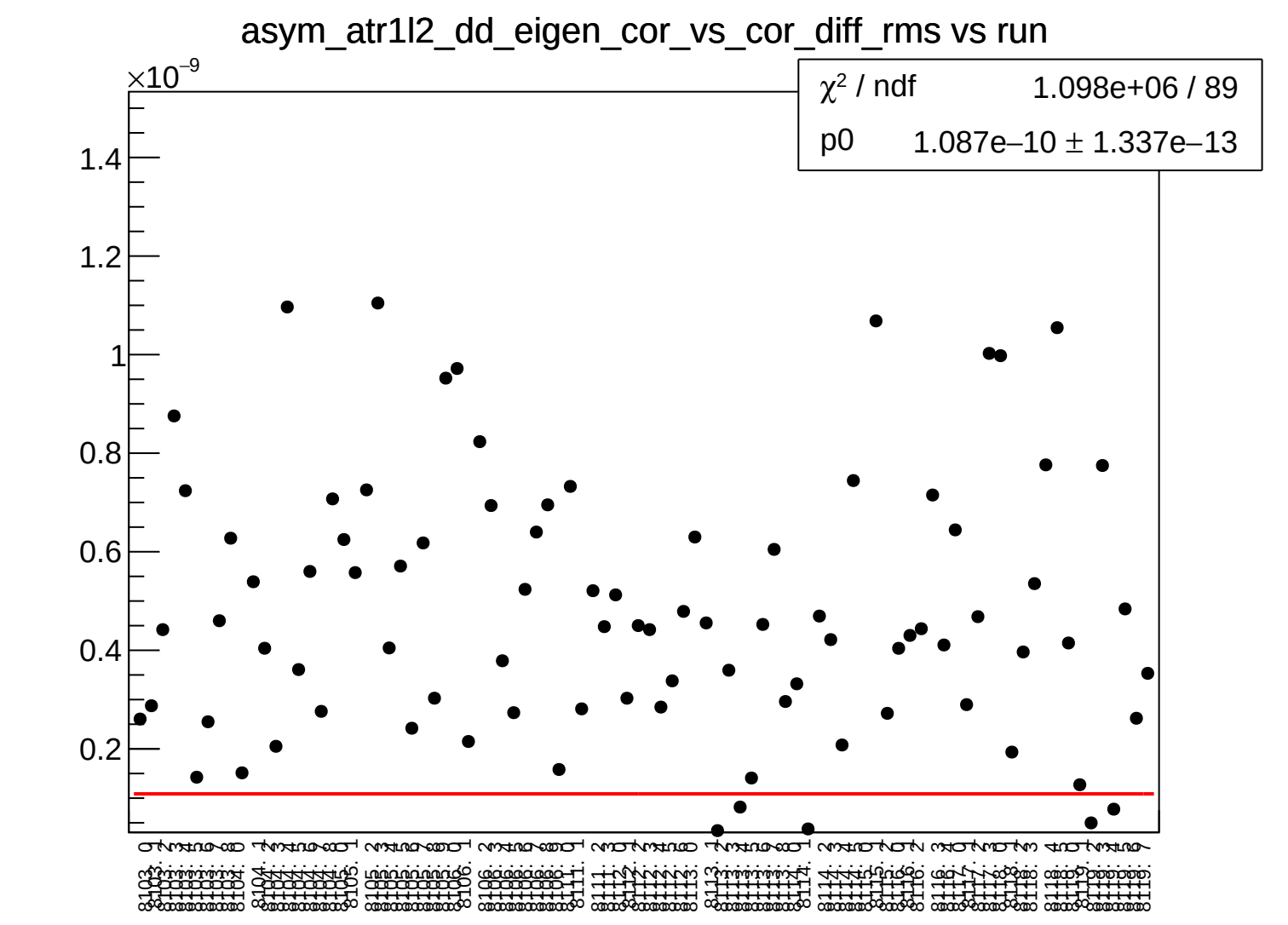

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.633e+04 / 89
p0 110.8 ± 0.08495
180
160
140
120
100
80

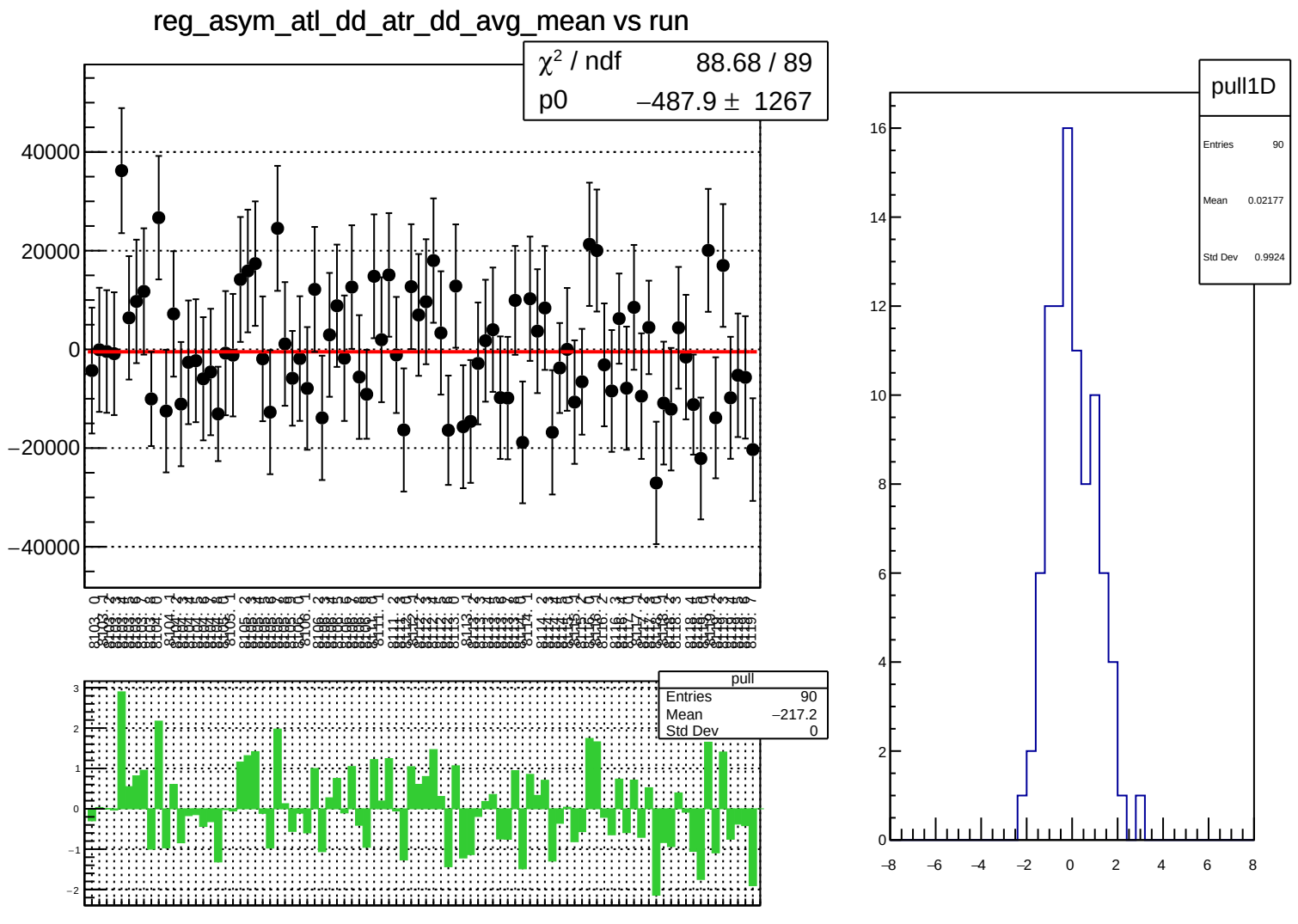

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.47 / 89
p0 −0.127 ± 0.1201
pull
Entries 90
Mean 174.9
Std Dev 0

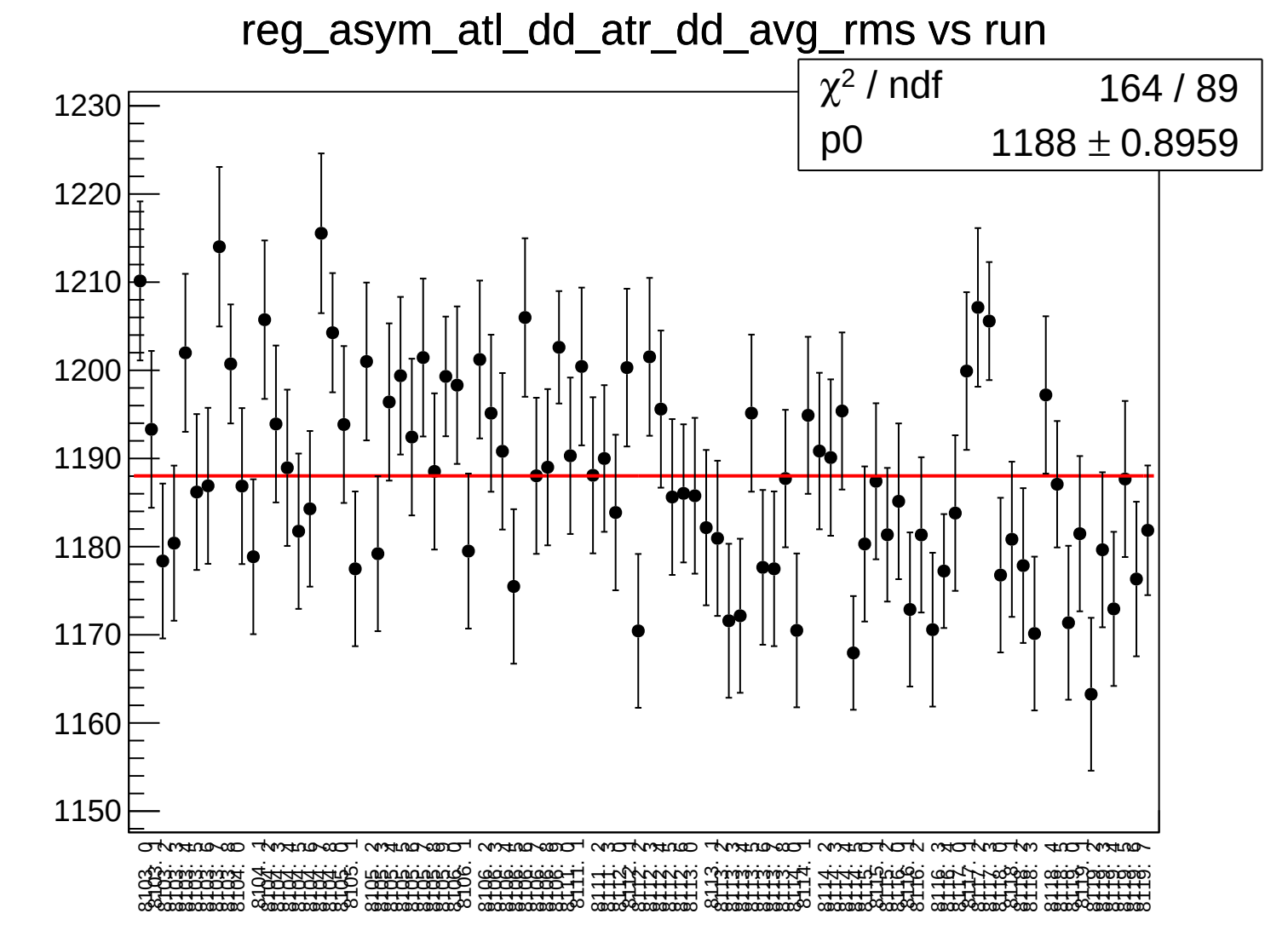

pull1D
Entries 90
Mean −0.0189
Std Dev 0.872

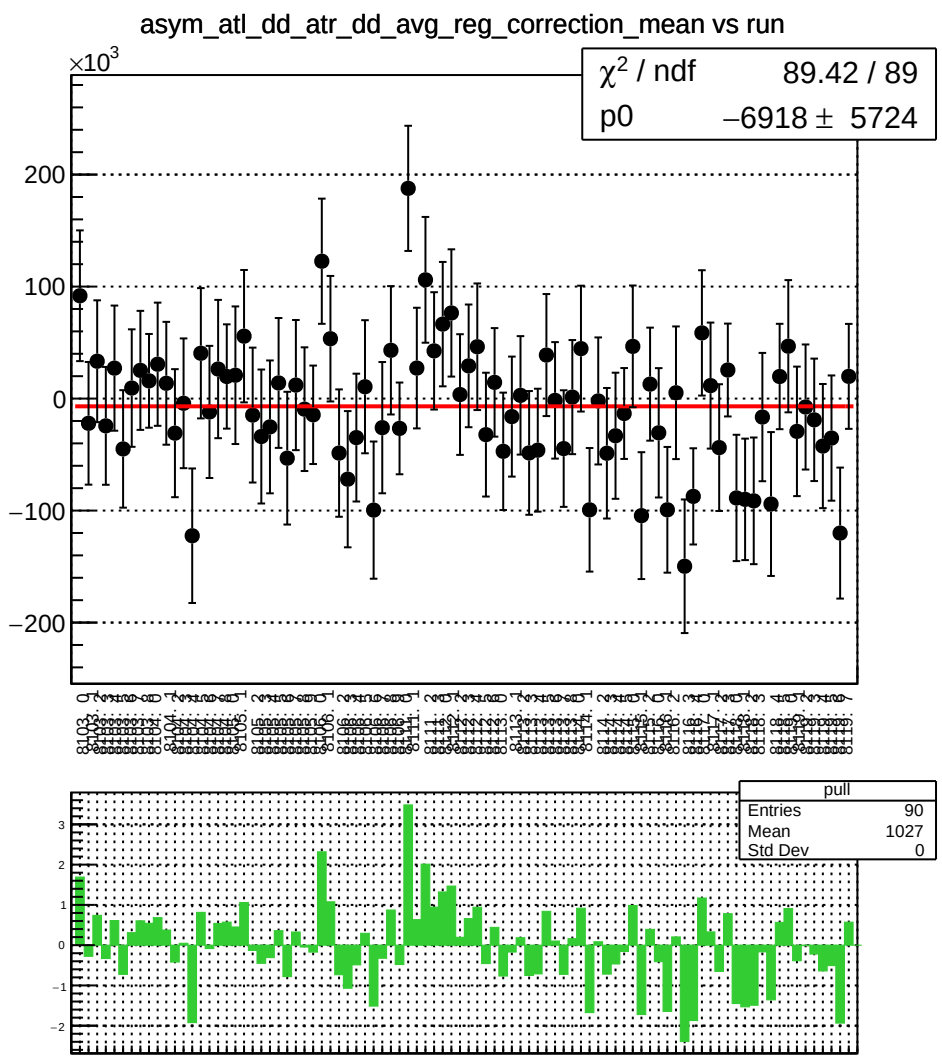

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.633e+04 / 89
p0 110.8 ± 0.08495
180
160
140
120
100
80

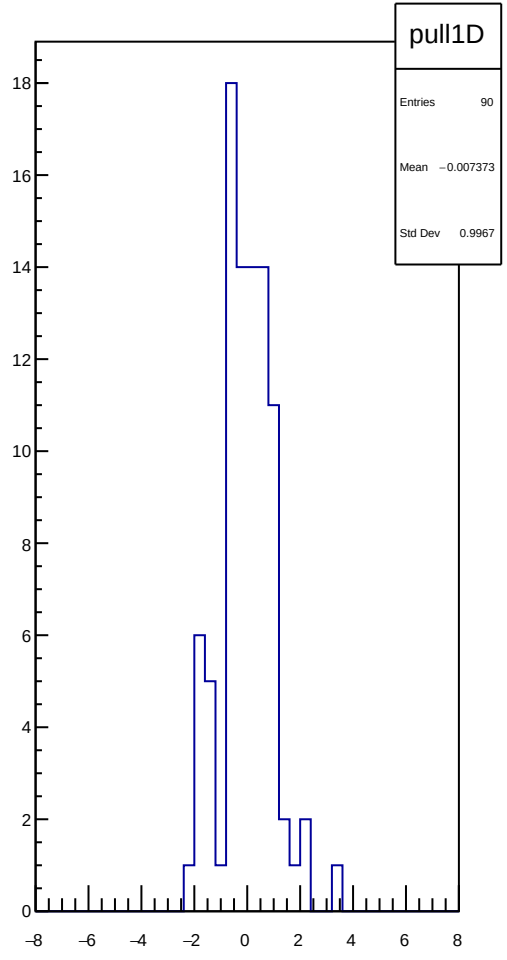

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.96 / 89
p0 1.869e−13 ± 1.891e−13
20
10
0
−10
−20
pull
Entries 90
Mean 37.26
Std Dev 42.55
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean −0.03673
Std Dev 0.8745
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

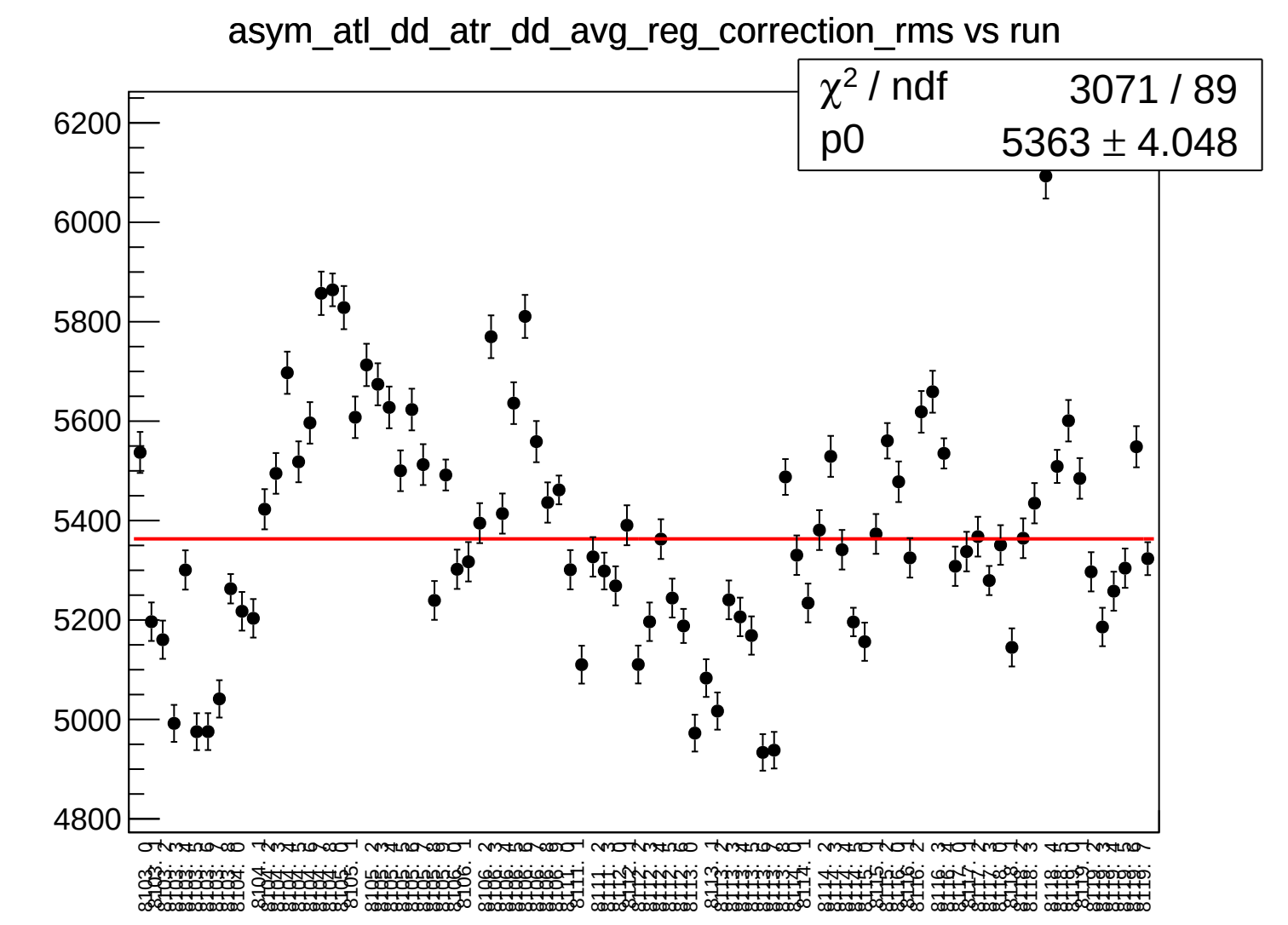

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.098e+06 / 89
p0 1.087e−10 ± 1.337e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

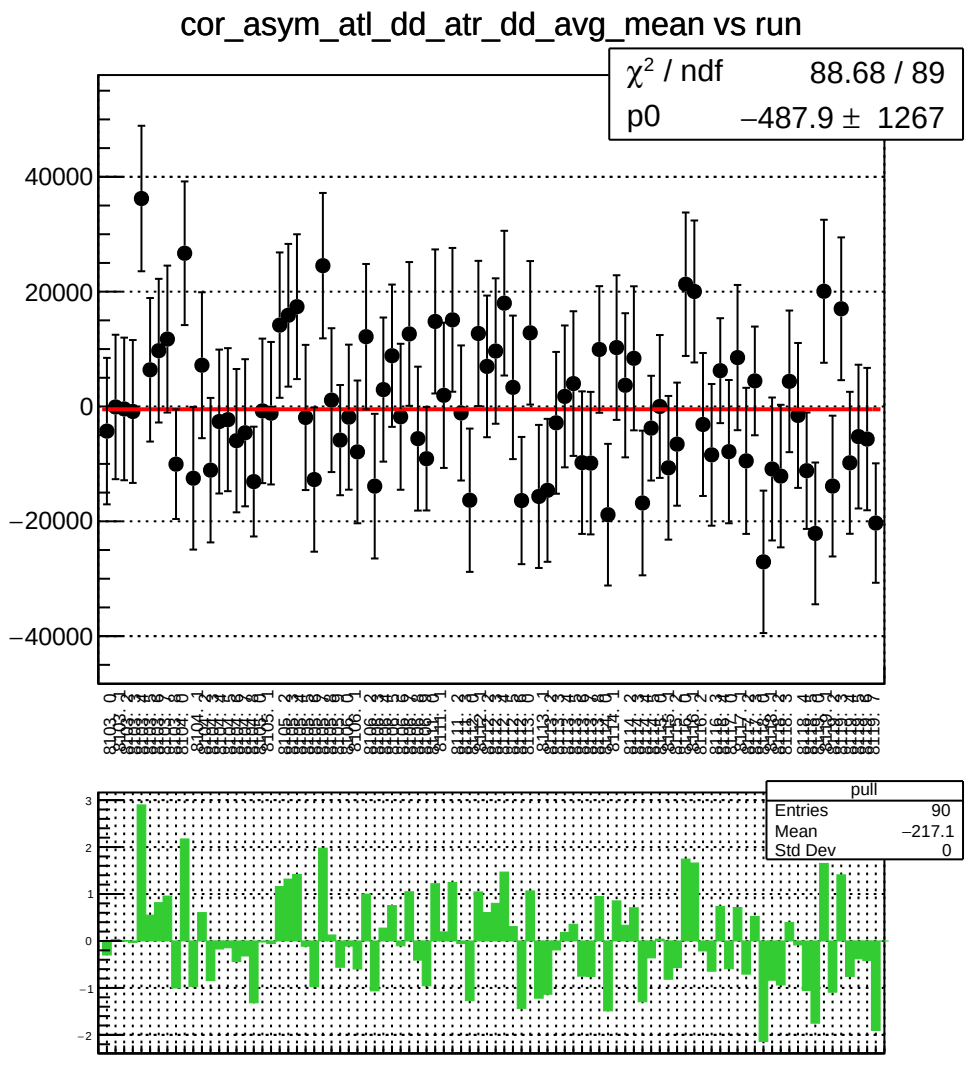

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 88.68 / 89
p0 −487.9 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −217.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.02177
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

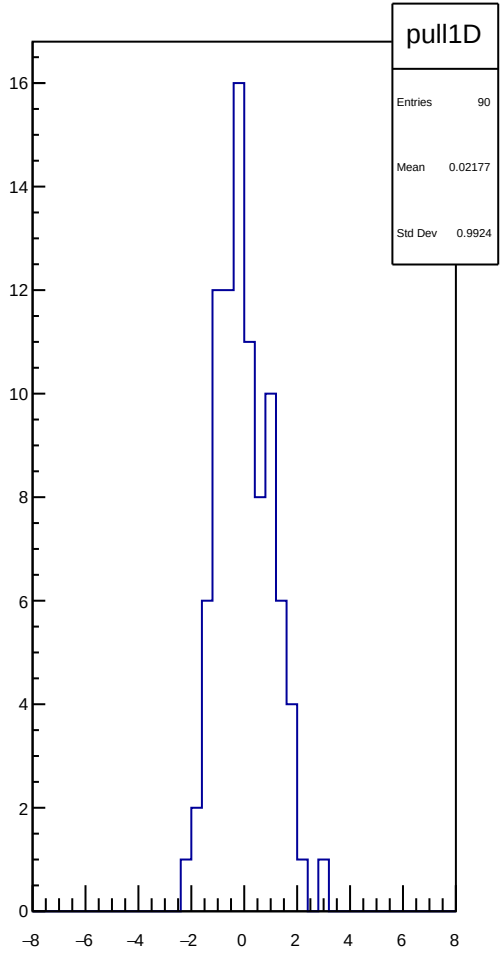

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 164 / 89
p0 1188 ± 0.8959
1230
1220
1210
1200
1190
1180
1170
1160
1150

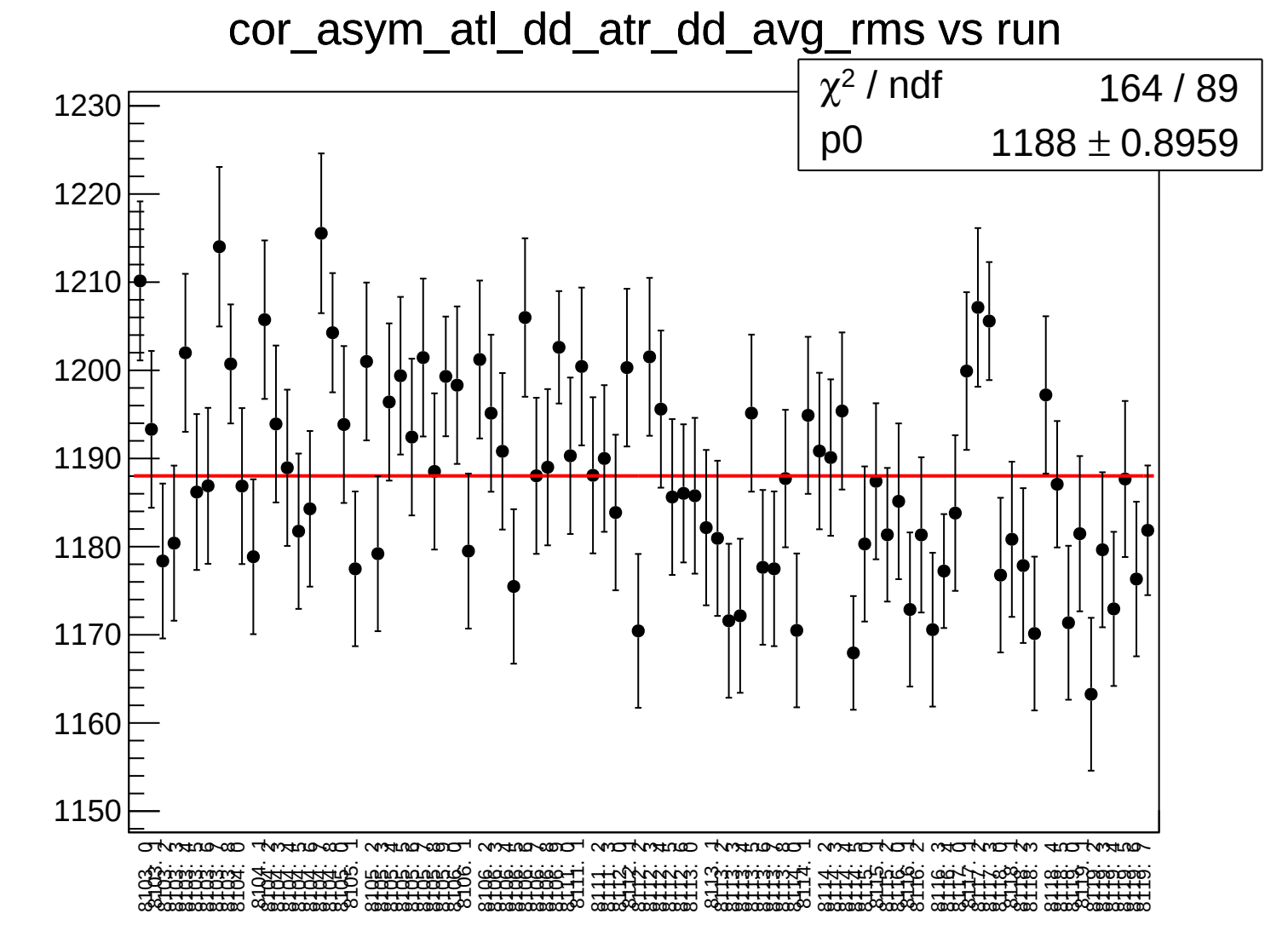

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.42 / 89
p0 −6918 ± 5724
200
100
0
−100
−200
pull
Entries 90
Mean 1027
Std Dev 0
3
2
1
0
−1
−2

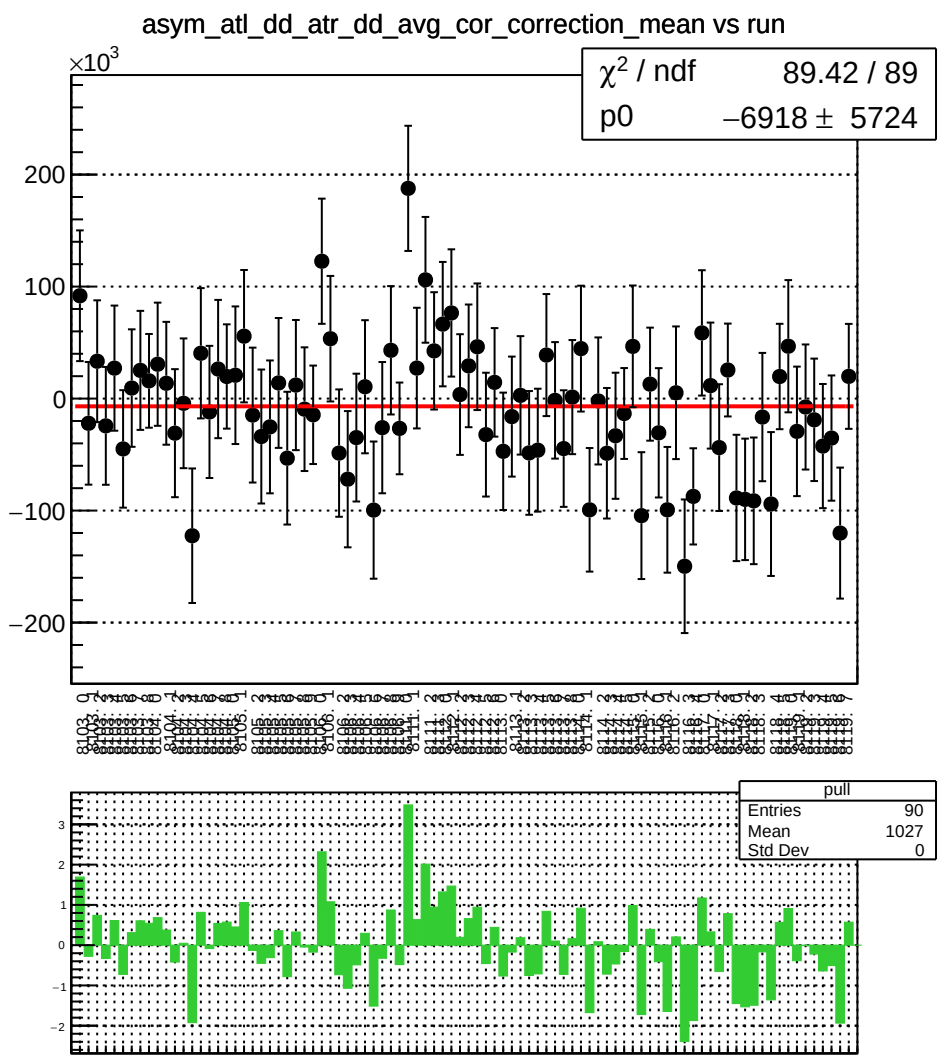

pull1D
Entries 90
Mean −0.007373
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

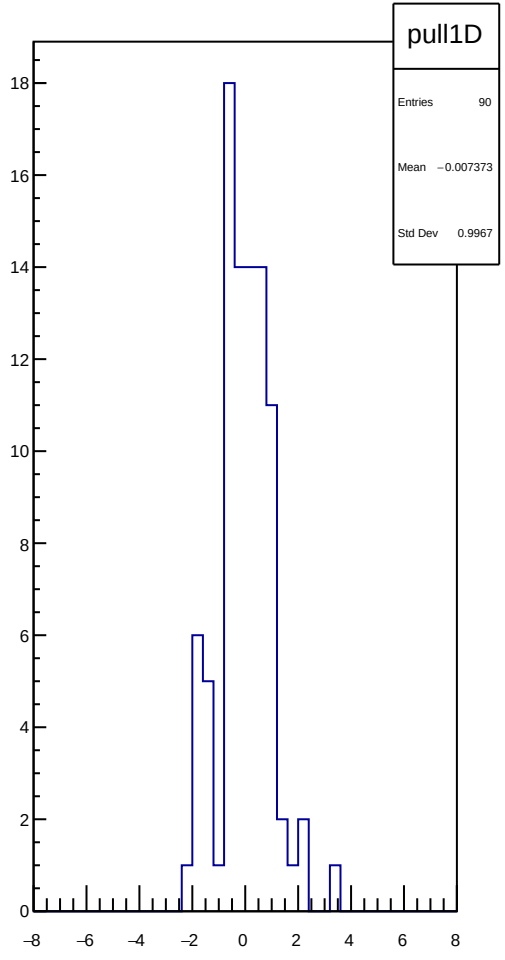

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3071 / 89
p0 5363 ± 4.048
6200
6000
5800
5600
5400
5200
5000
4800

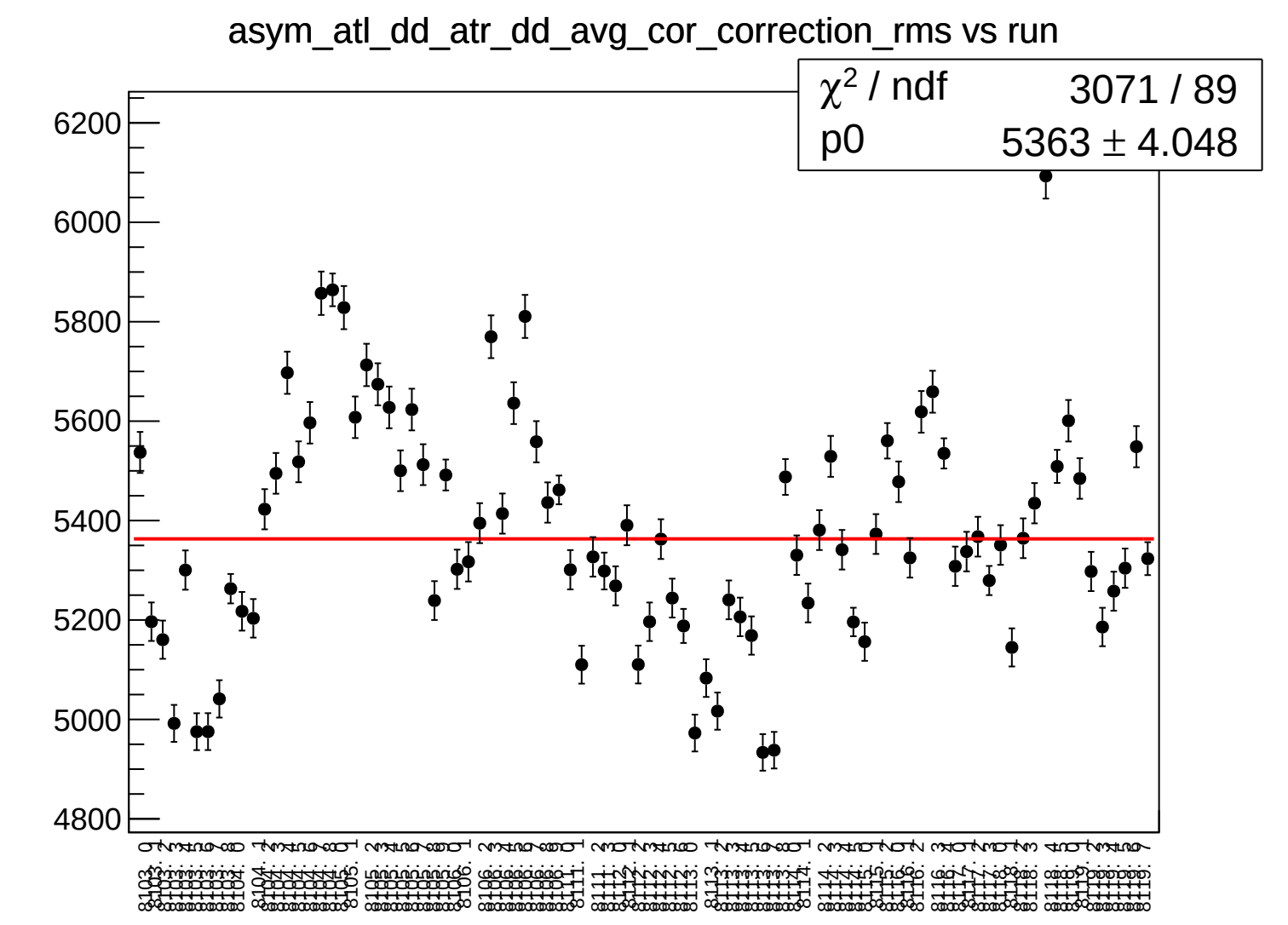

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 88.68 / 89
p0 −487.9 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −217.1
Std Dev 0
3
2
1
0
−1
−2

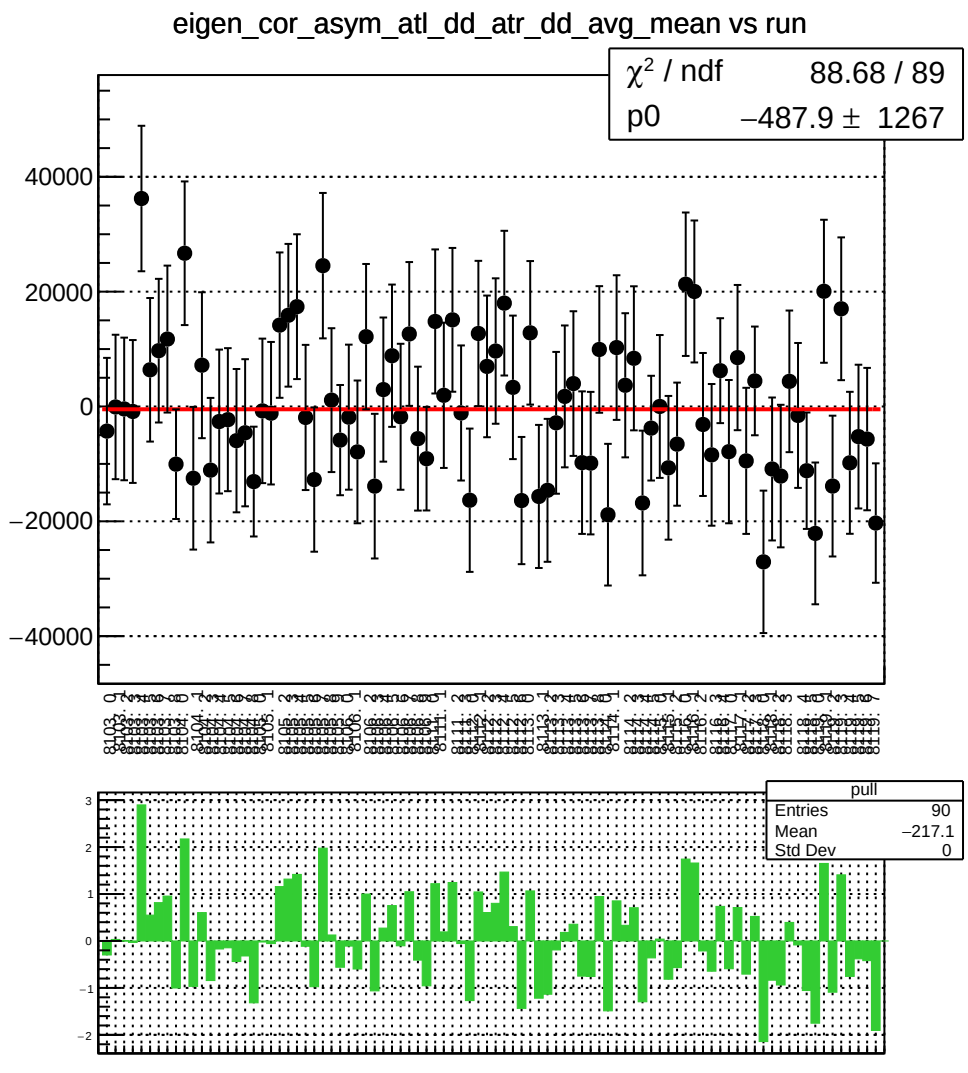

pull1D
Entries 90
Mean 0.02177
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

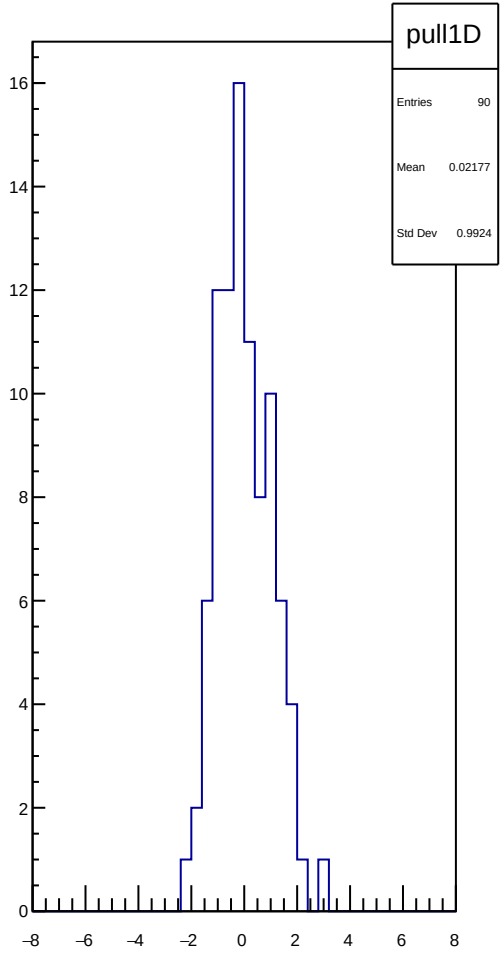

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 164 / 89
p0 1188 ± 0.8959
1230
1220
1210
1200
1190
1180
1170
1160
1150

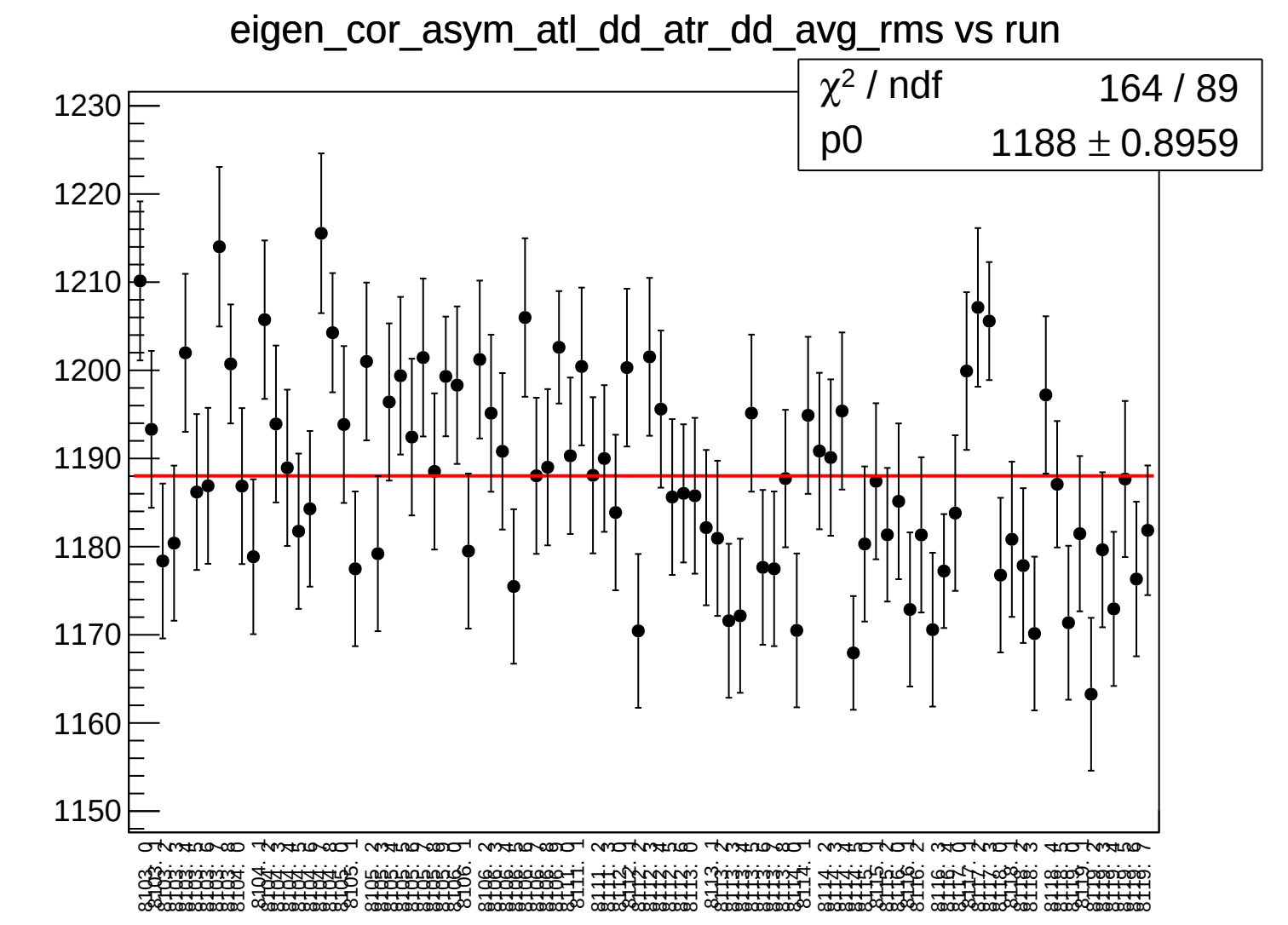

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.42 / 89
p0 −6918 ± 5724
200
100
0
−100
−200
pull
Entries 90
Mean 1027
Std Dev 0
3
2
1
0
−1
−2

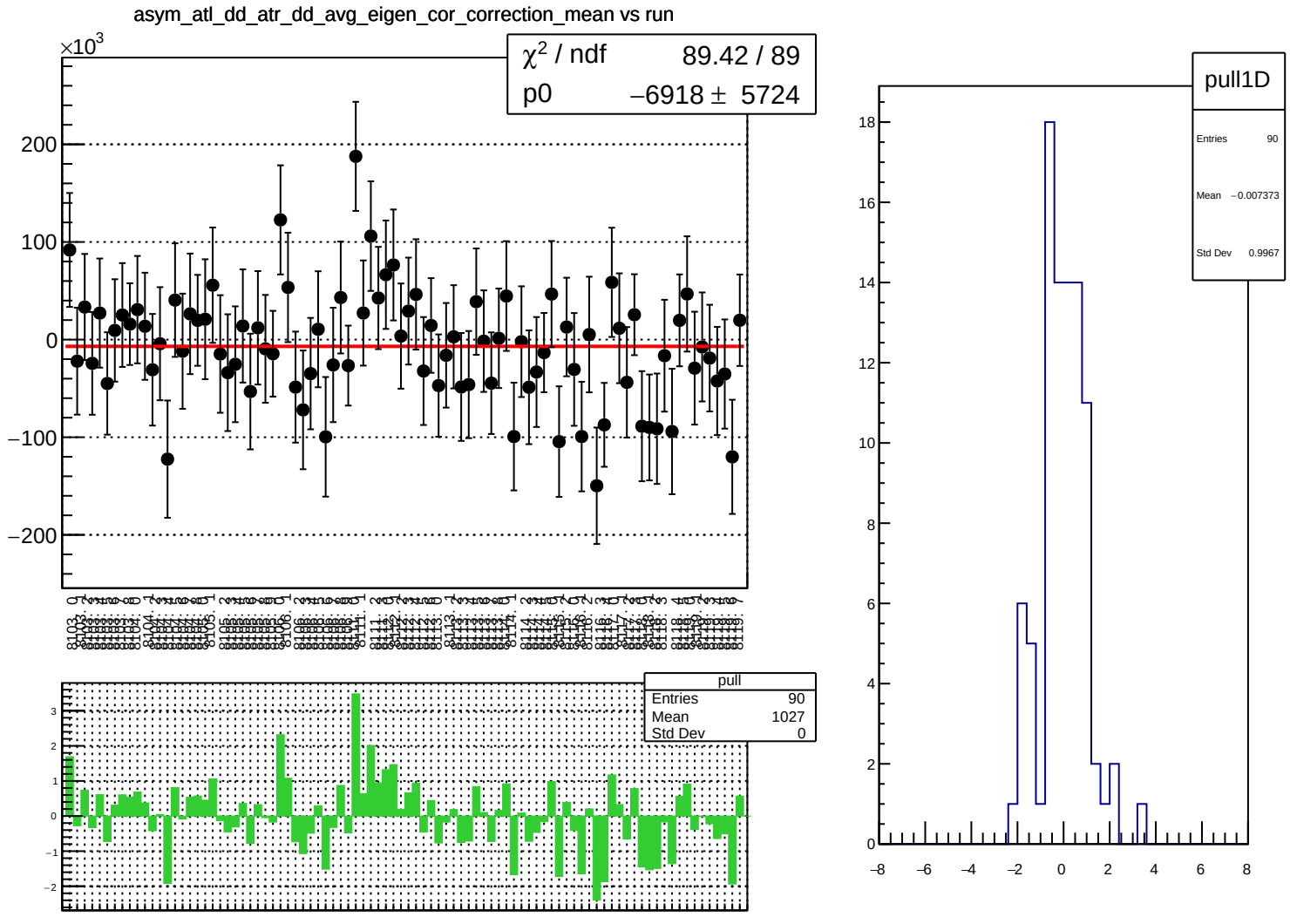

pull1D
Entries 90
Mean −0.007373
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

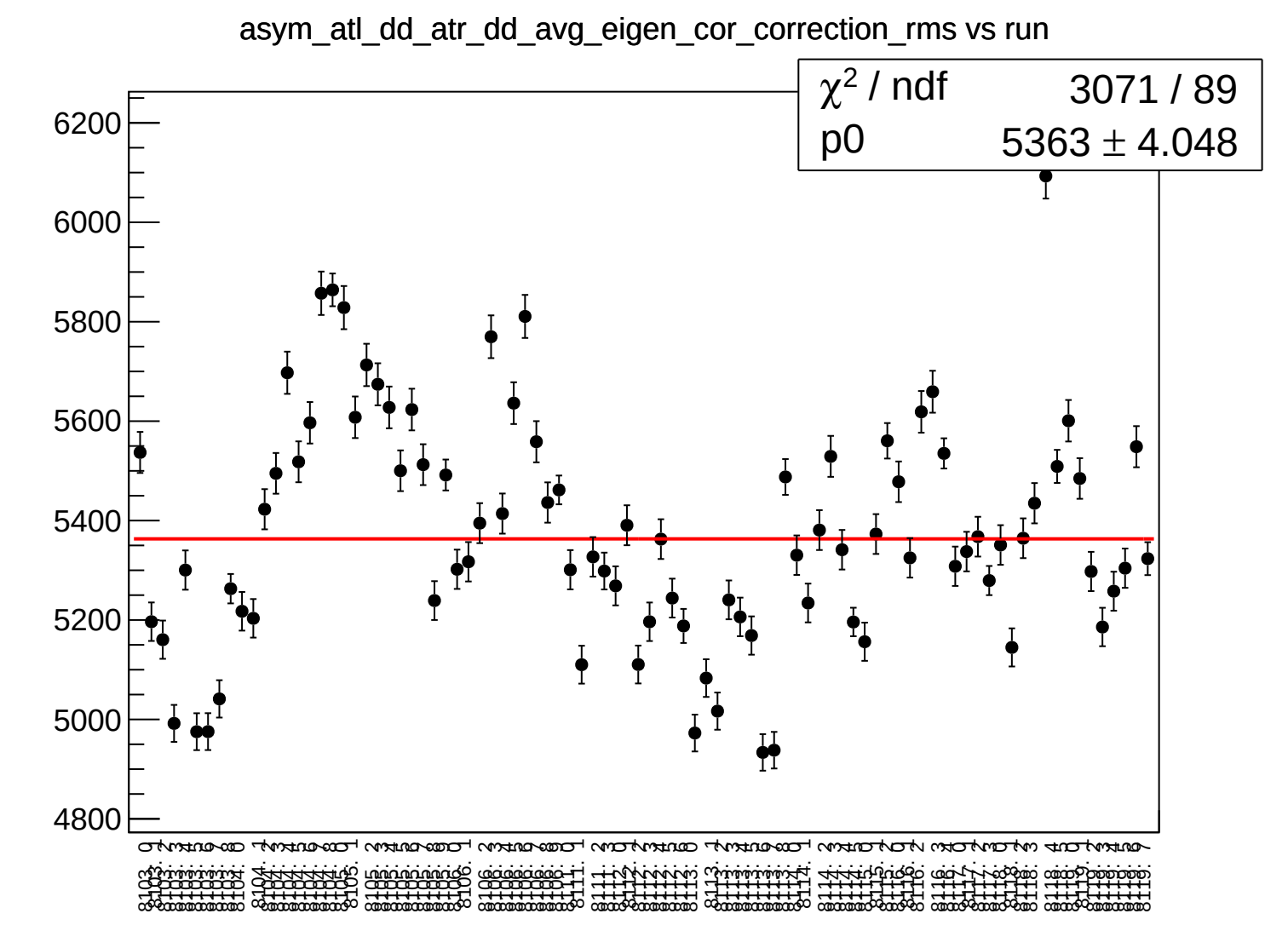

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 3071 / 89
p0 5363 ± 4.048
6200
6000
5800
5600
5400
5200
5000
4800

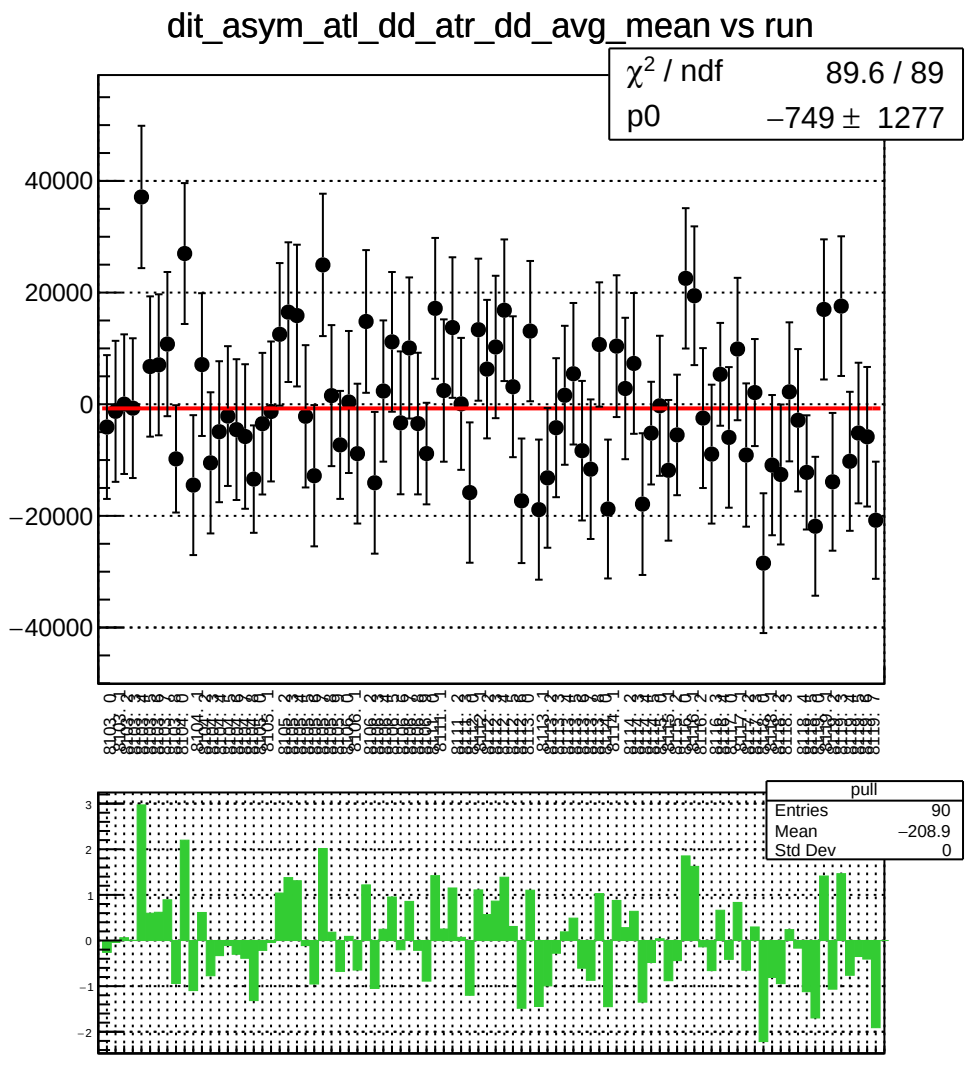

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 88.68 / 89
p0 −487.9 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −217.1
Std Dev 0
3
2
1
0
−1
−2

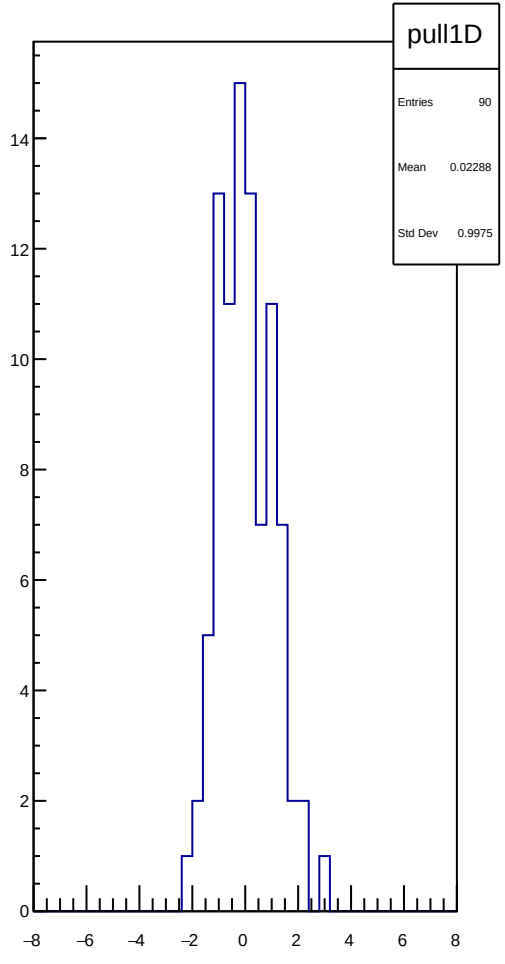

pull1D
Entries 90
Mean 0.02177
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

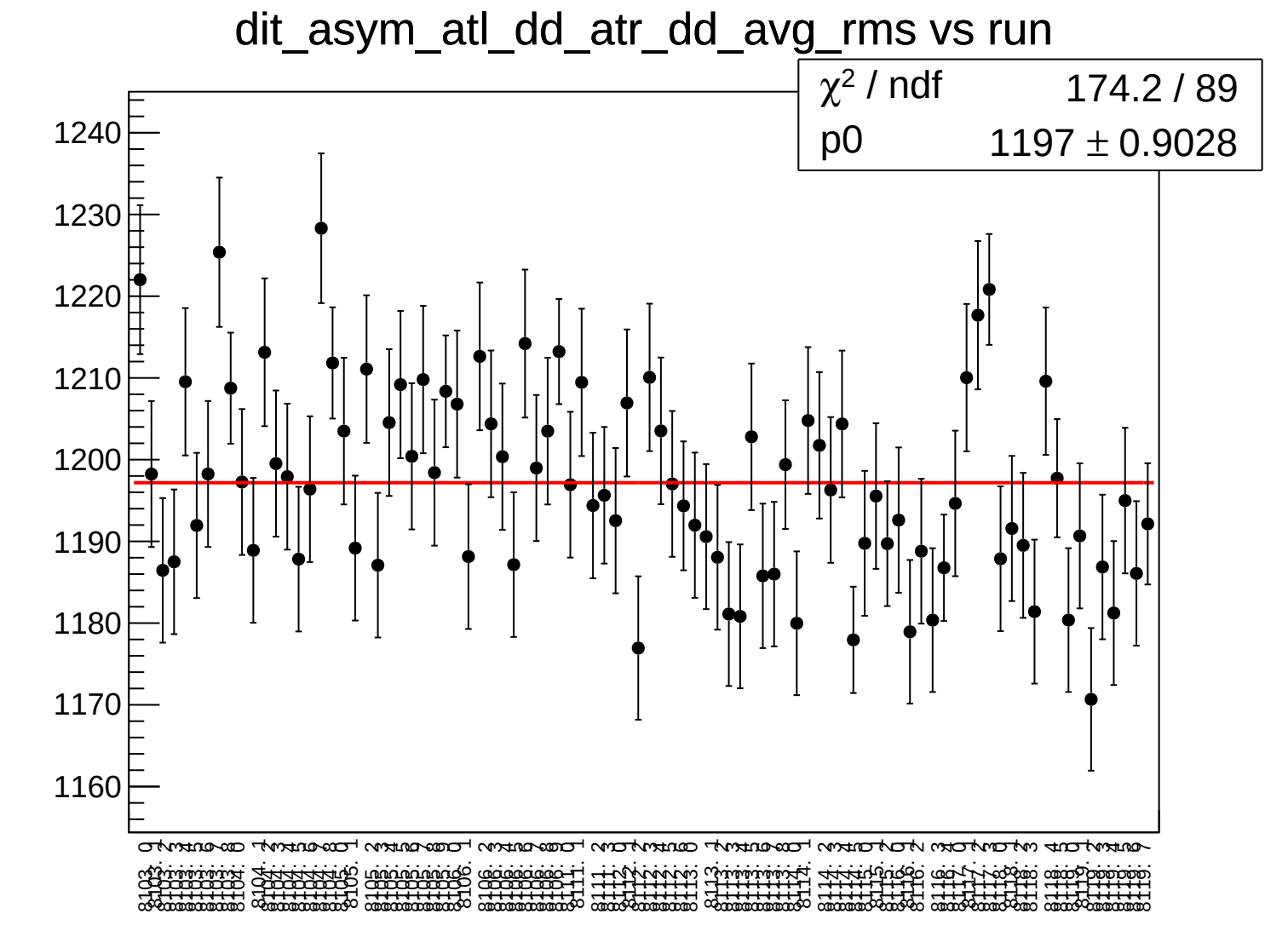

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 164 / 89
p0 1188 ± 0.8959
1230
1220
1210
1200
1190
1180
1170
1160
1150

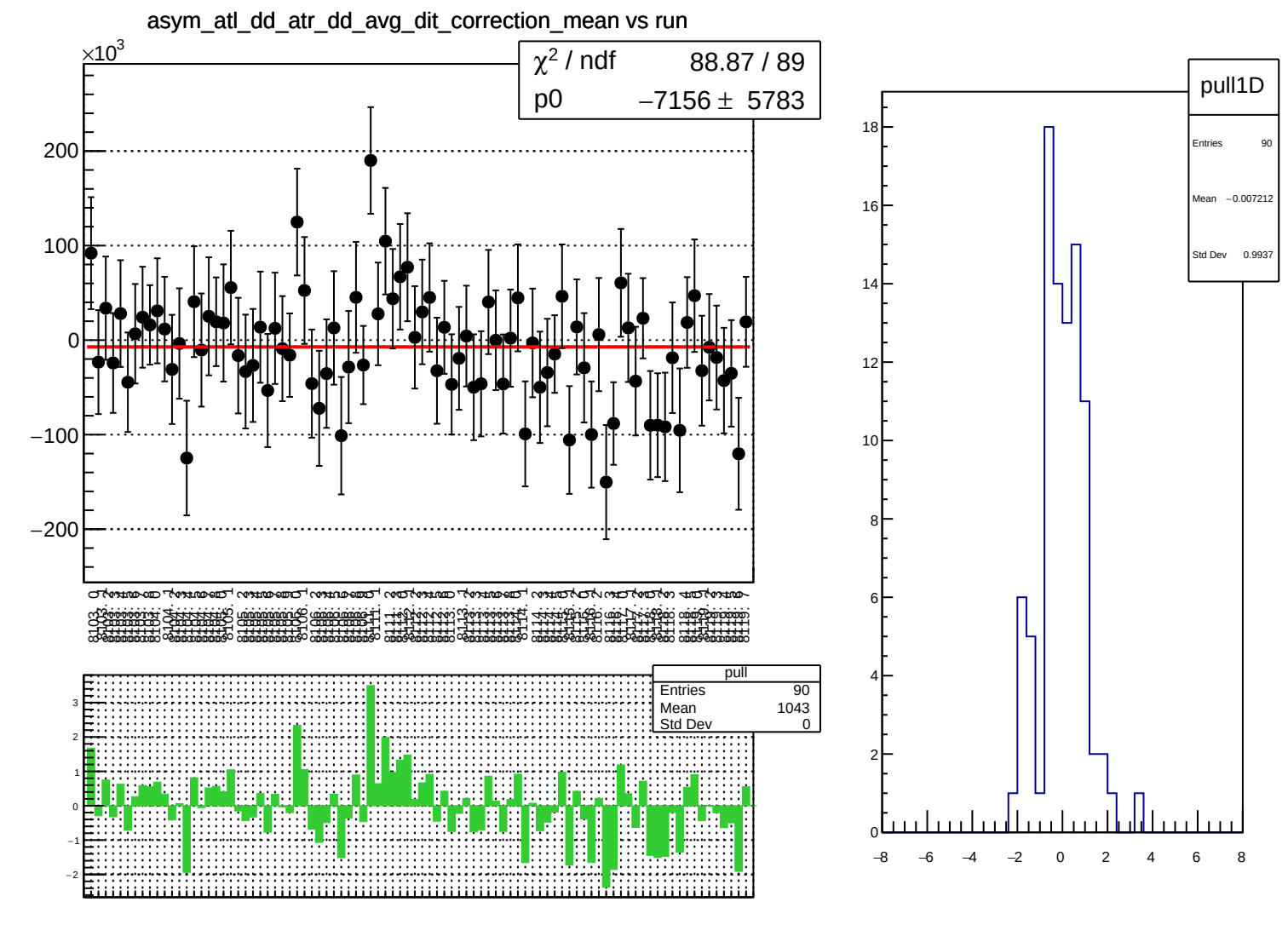

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.42 / 89
p0 −6918 ± 5724
200
100
0
−100
−200
pull
Entries 90
Mean 1027
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007373
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

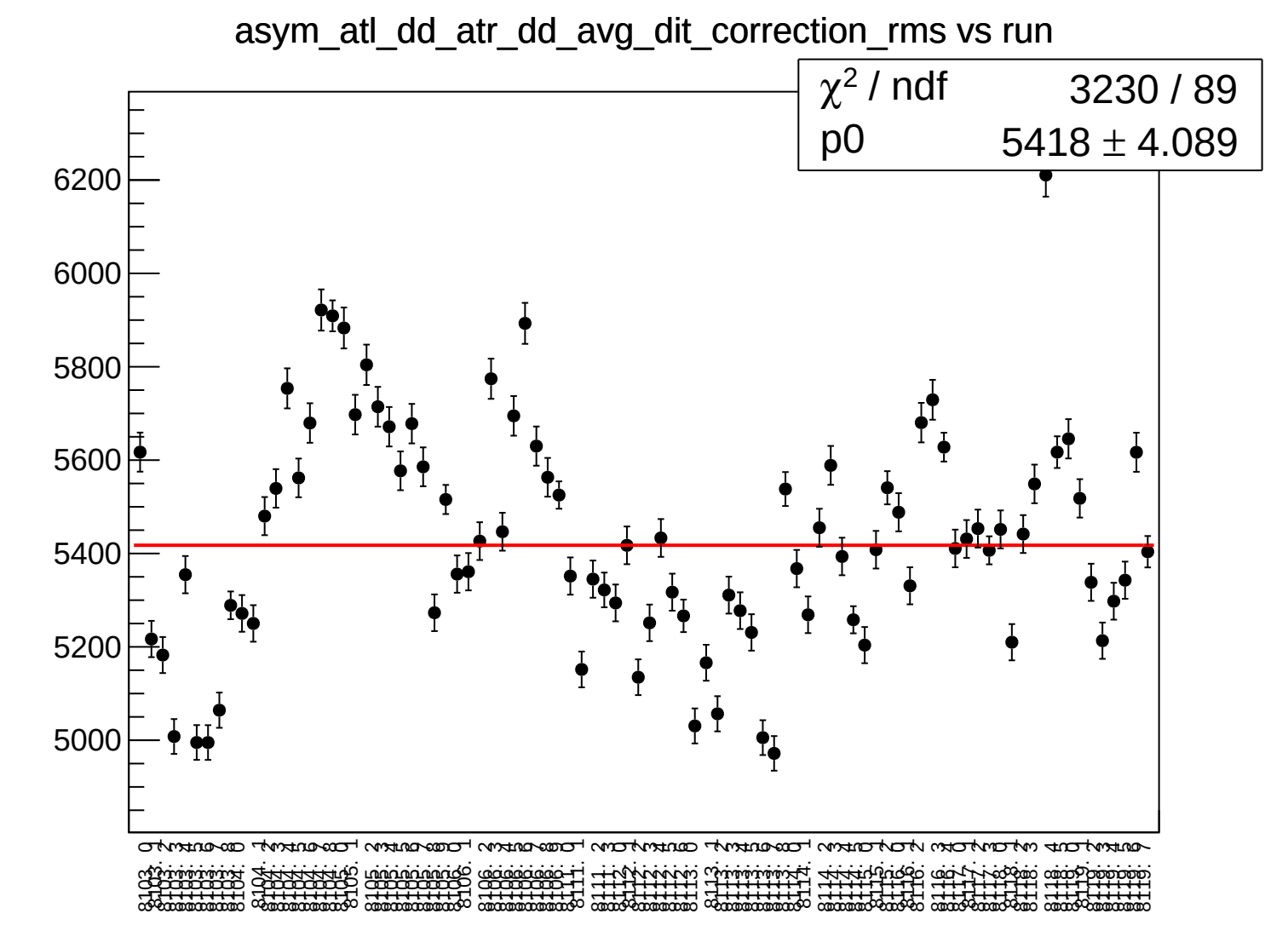

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3071 / 89
p0 5363 ± 4.048
6200
6000
5800
5600
5400
5200
5000
4800

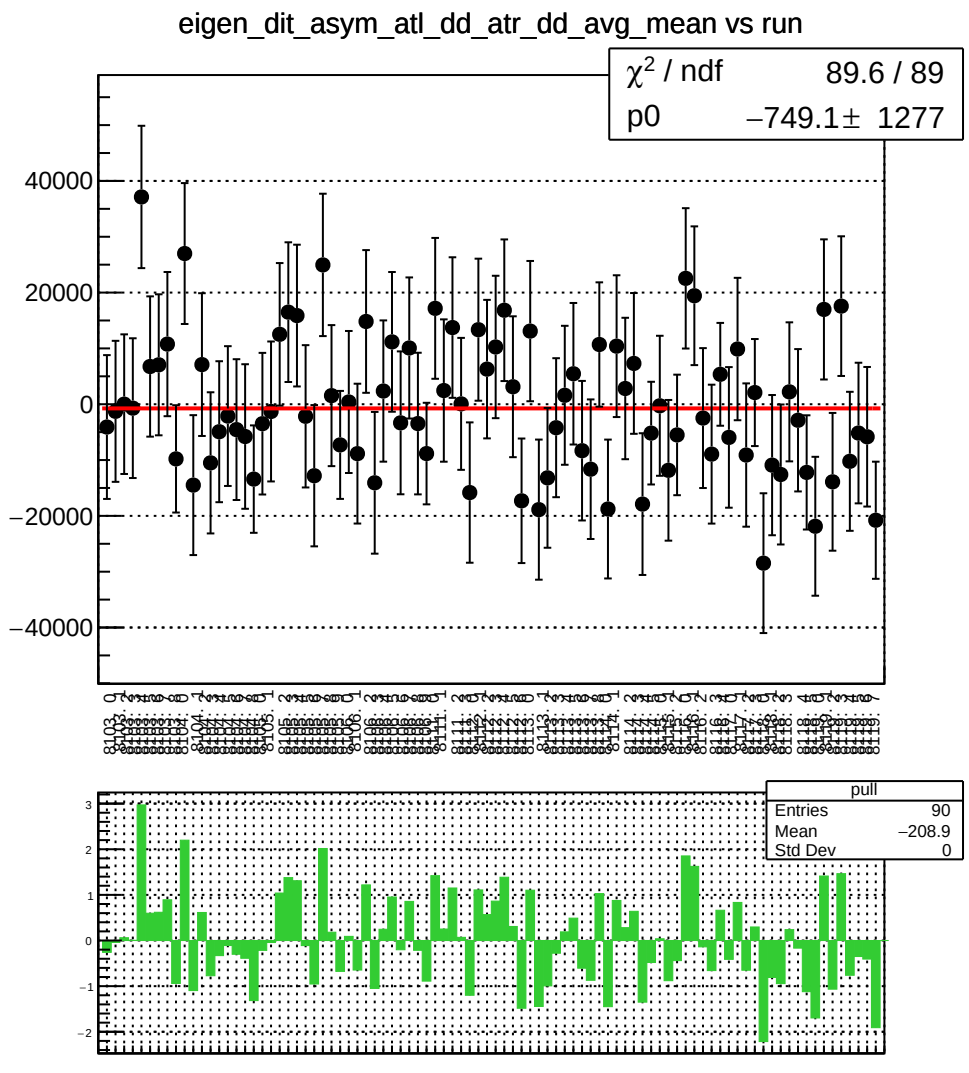

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.6 / 89
p0 −749 ± 1277
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −208.9
Std Dev 0
3
2
1
0
−1
−2

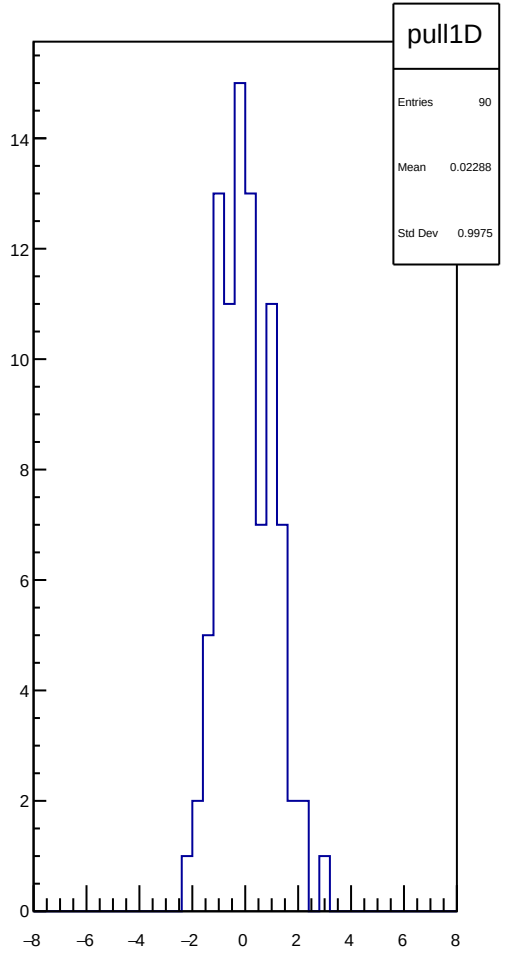

pull1D
Entries 90
Mean 0.02288
Std Dev 0.9975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

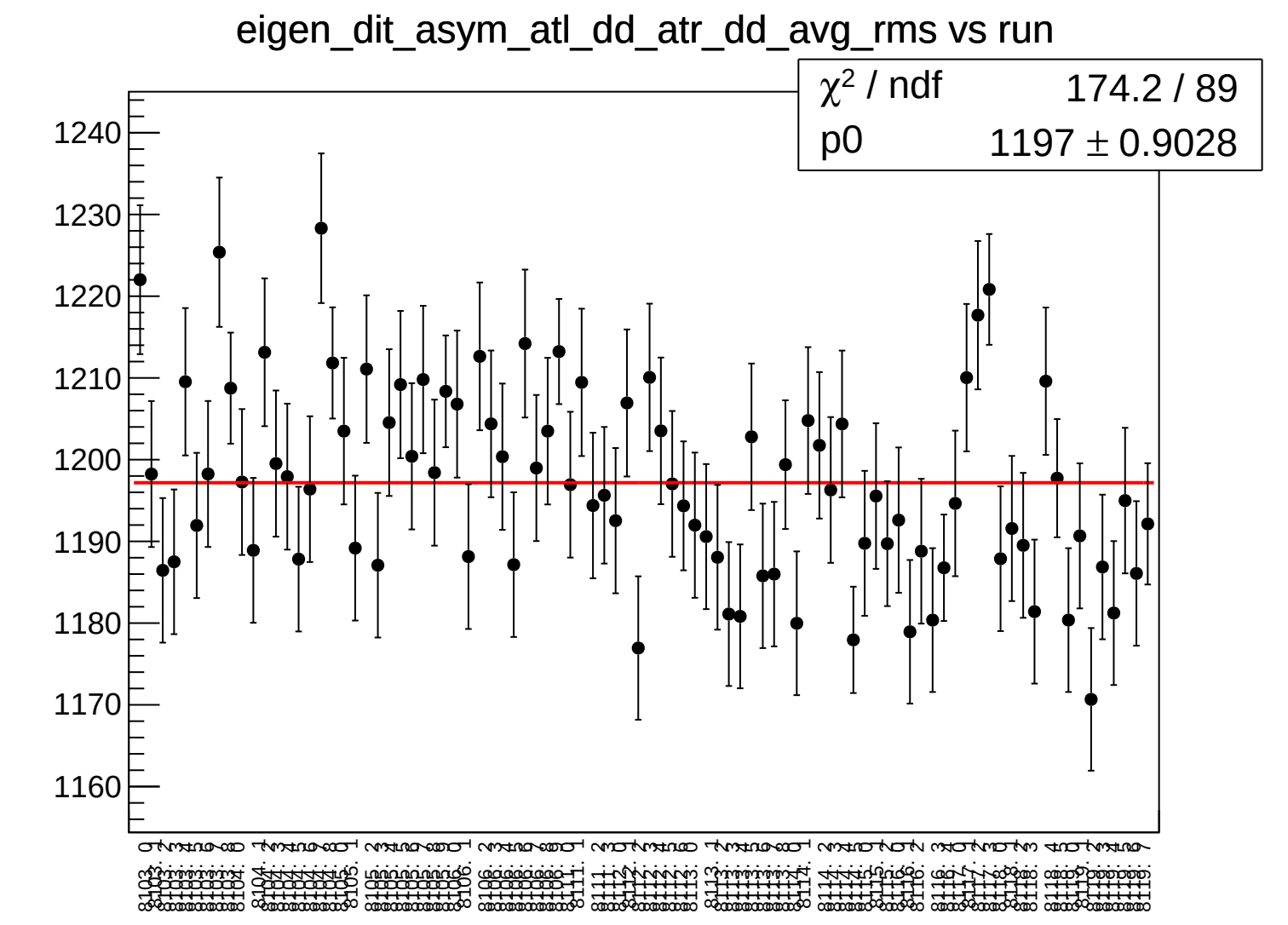

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 174.2 / 89
p0 1197 ± 0.9028
1240
1230
1220
1210
1200
1190
1180
1170
1160

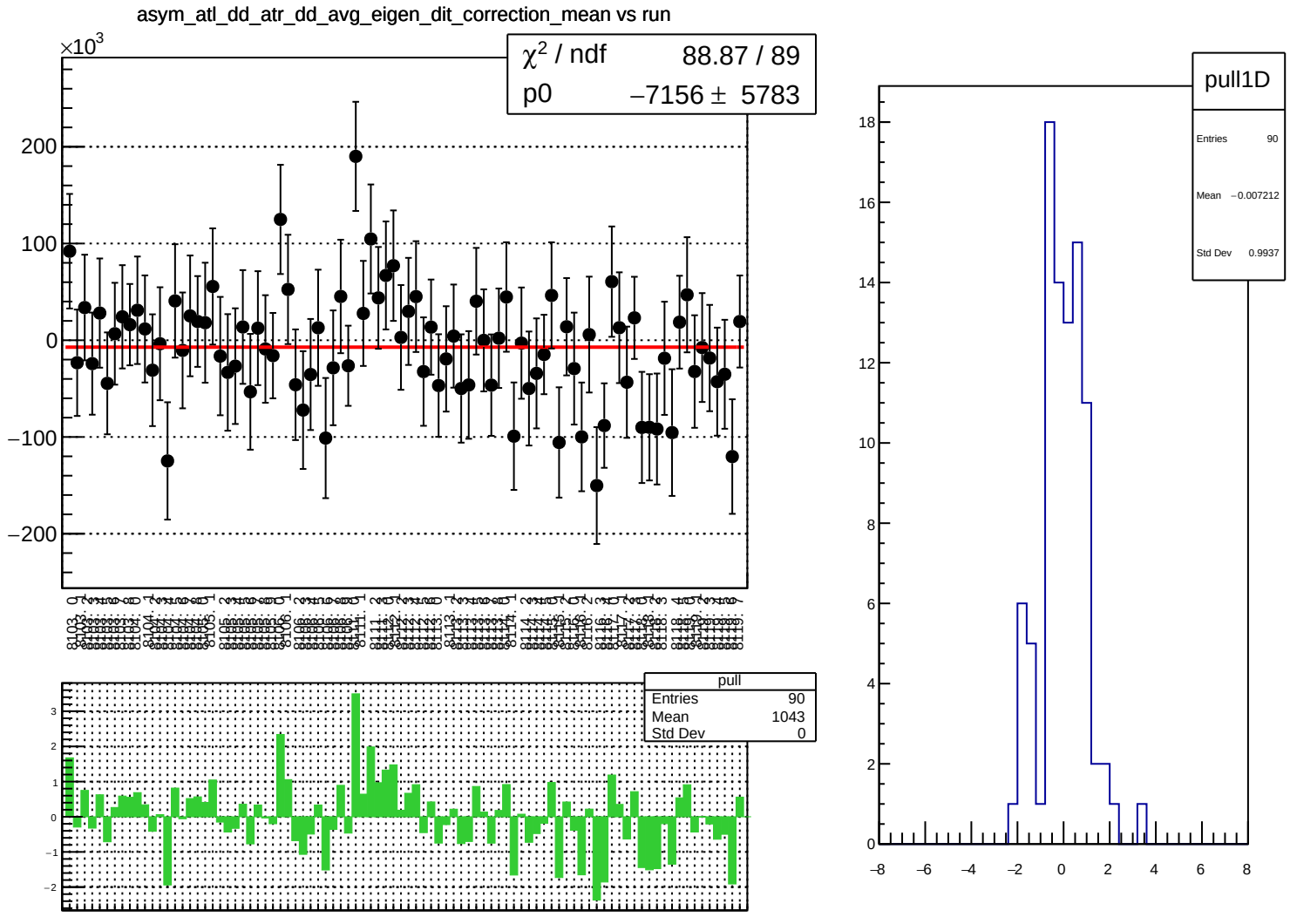

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.87 / 89
p0 −7156 ± 5783
200
100
0
−100
−200
pull
Entries 90
Mean 1043
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007212
Std Dev 0.9937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

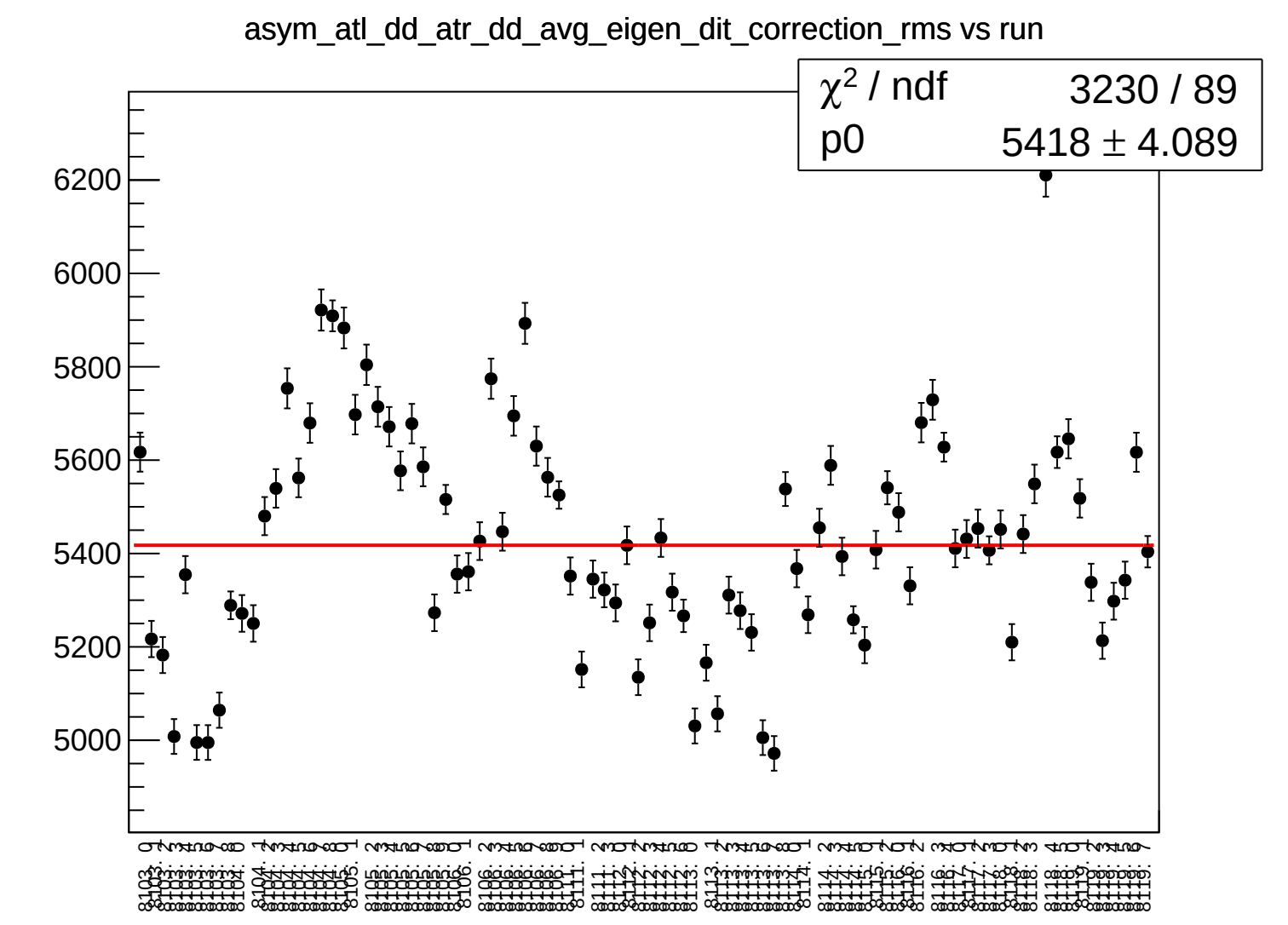

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3230 / 89
p0 5418 ± 4.089
6200
6000
5800
5600
5400
5200
5000

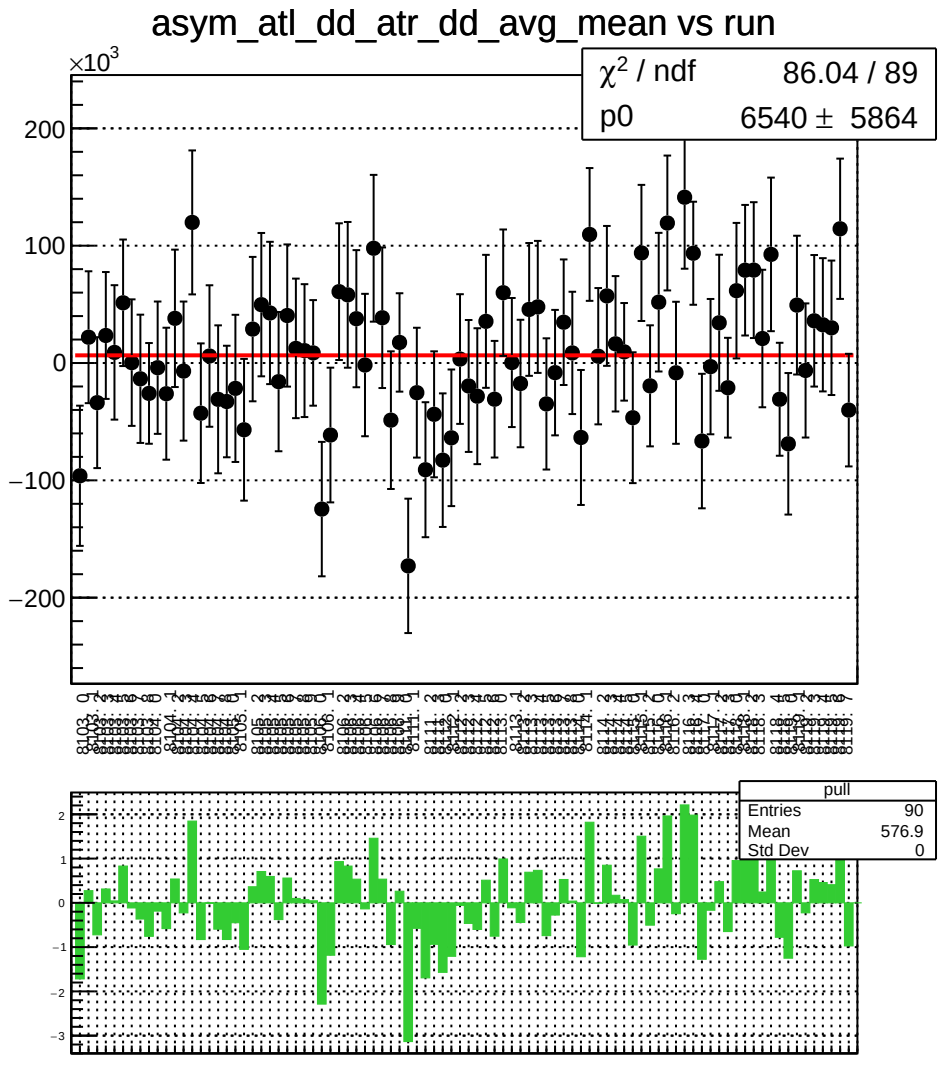

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.6 / 89
p0 −749.1± 1277
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −208.9
Std Dev 0
3
2
1
0
−1
−2

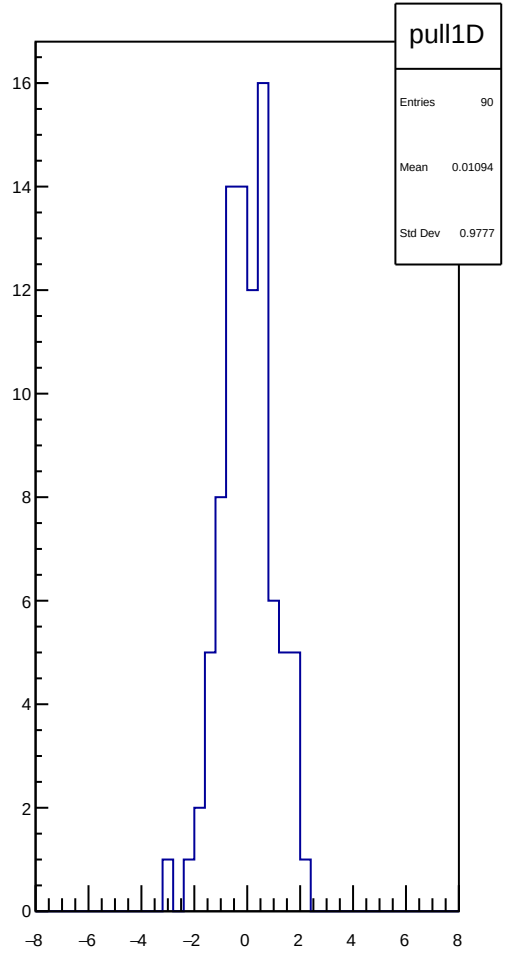

pull1D
Entries 90
Mean 0.02288
Std Dev 0.9975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

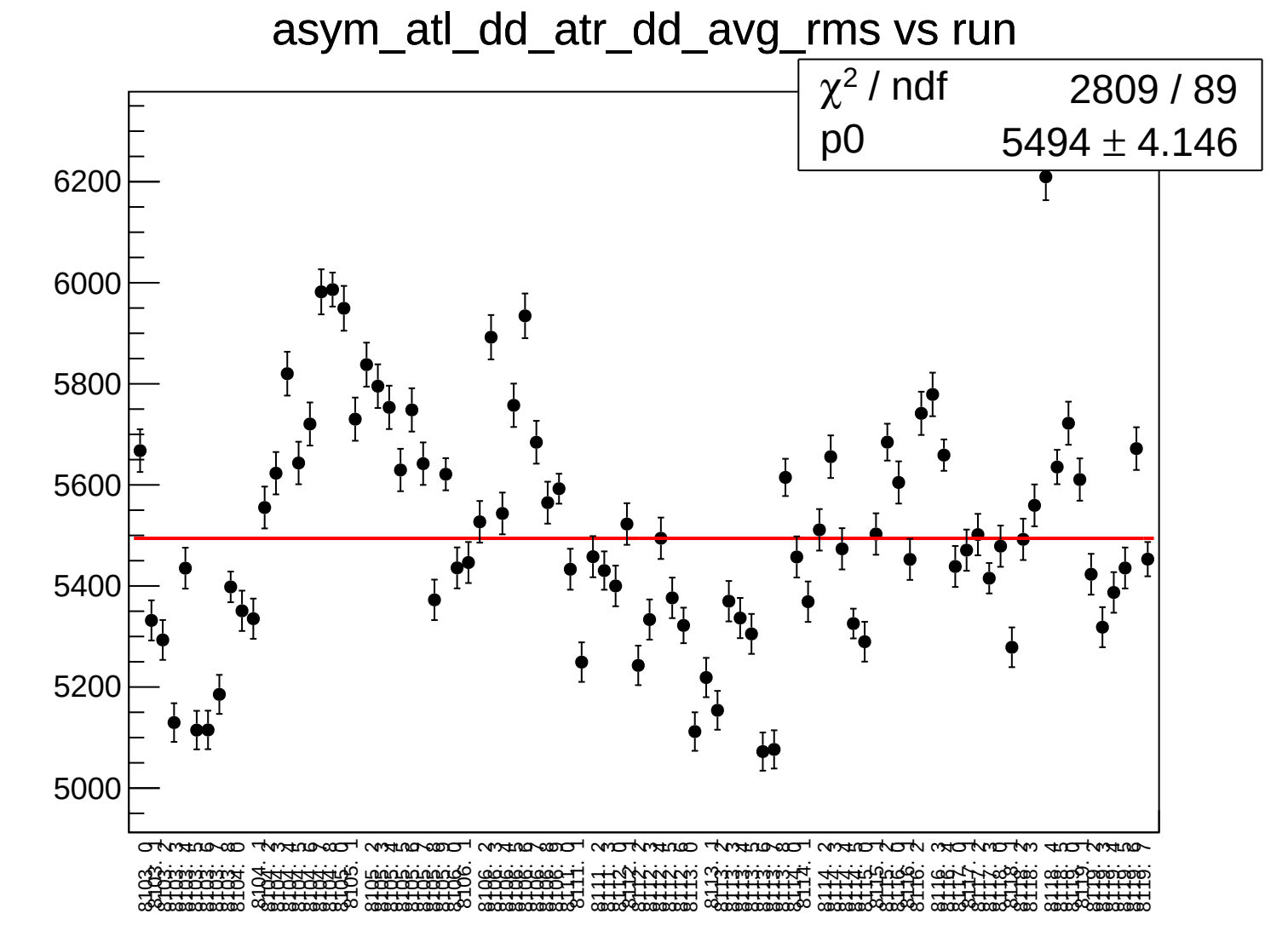

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 174.2 / 89
p0 1197 ± 0.9028
1240
1230
1220
1210
1200
1190
1180
1170
1160

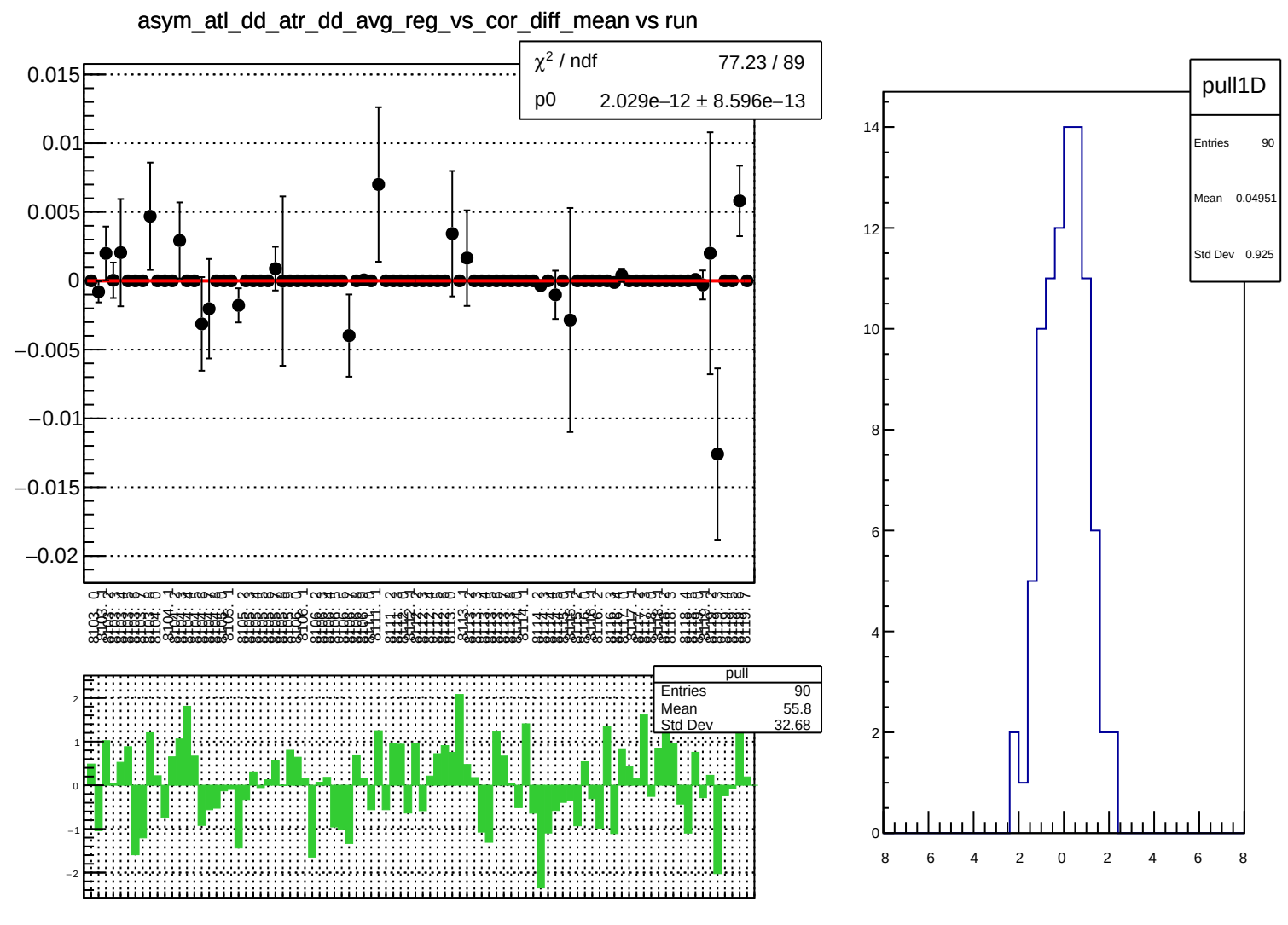

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.87 / 89
p0 −7156 ± 5783
200
100
0
−100
−200
pull
Entries 90
Mean 1043
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007212
Std Dev 0.9937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

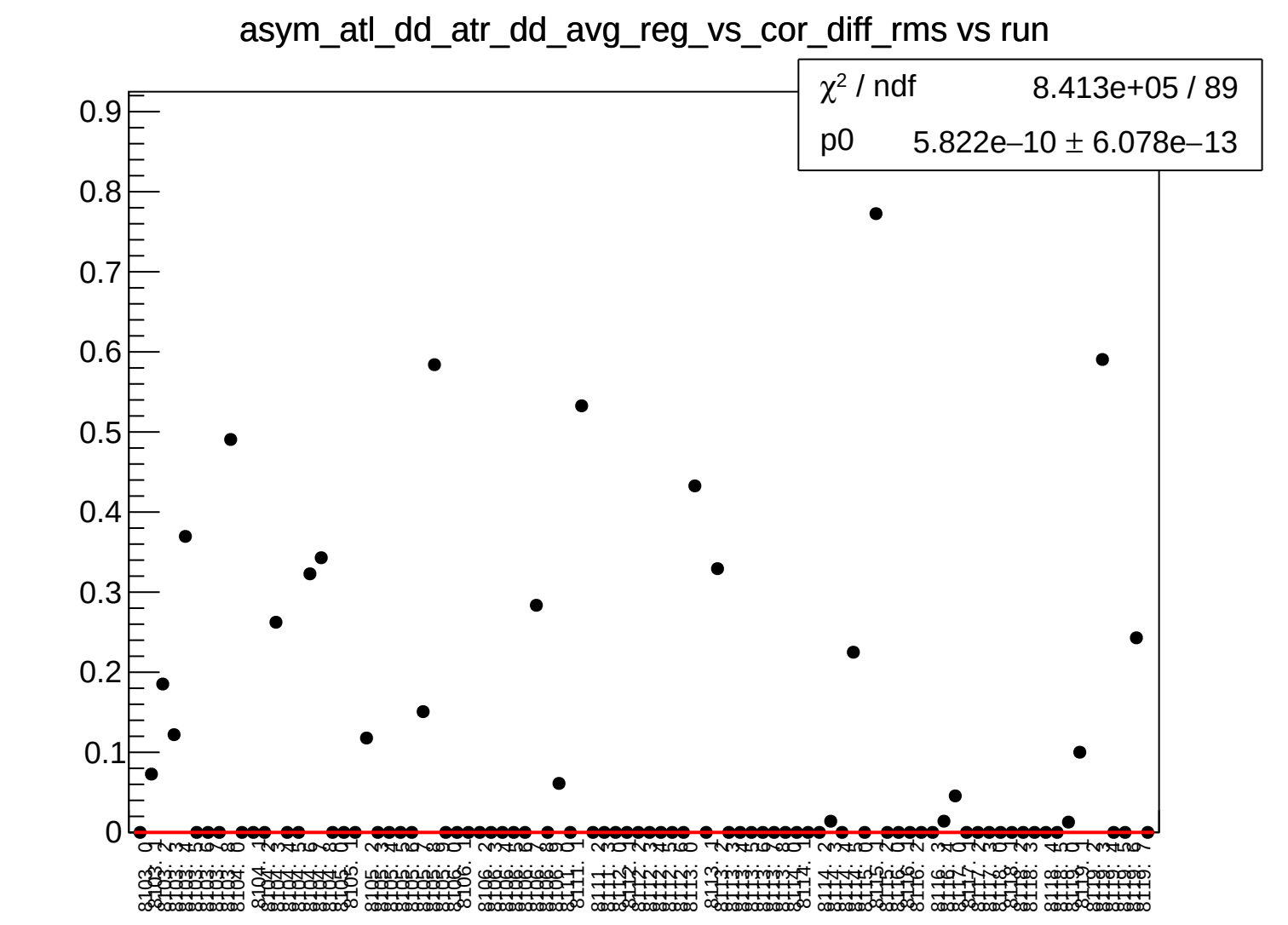

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3230 / 89
p0 5418 ± 4.089
6200
6000
5800
5600
5400
5200
5000

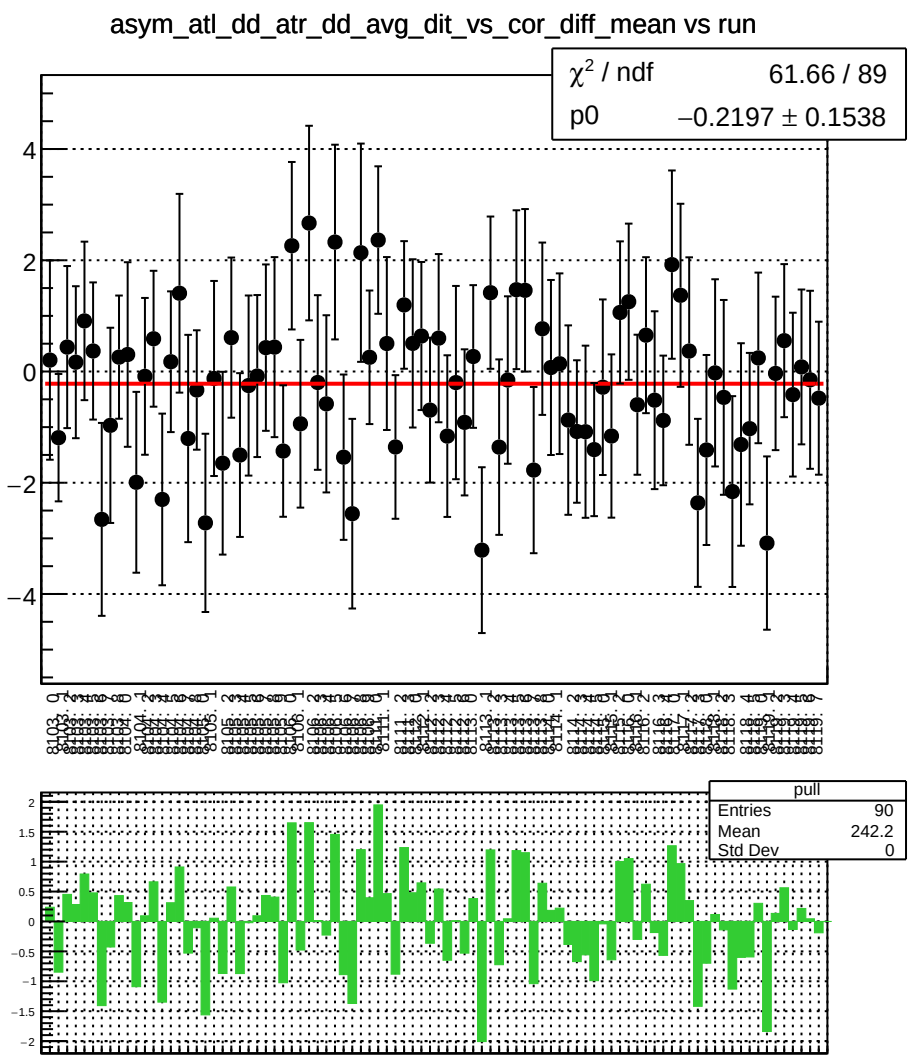

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 86.04 / 89
p0 6540 ± 5864
200
100
0
−100
−200
pull
Entries 90
Mean 576.9
Std Dev 0
2
1
0
−1
−2
−3

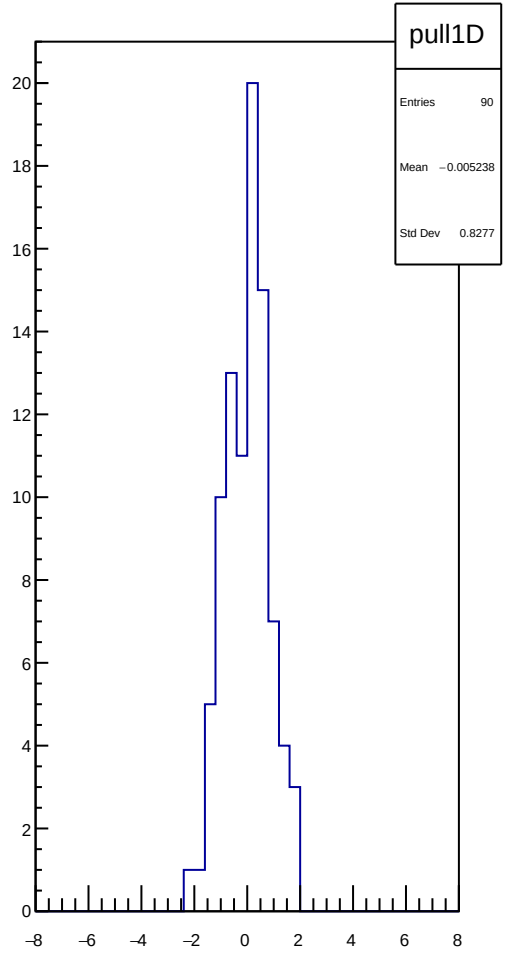

pull1D
Entries 90
Mean 0.01094
Std Dev 0.9777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

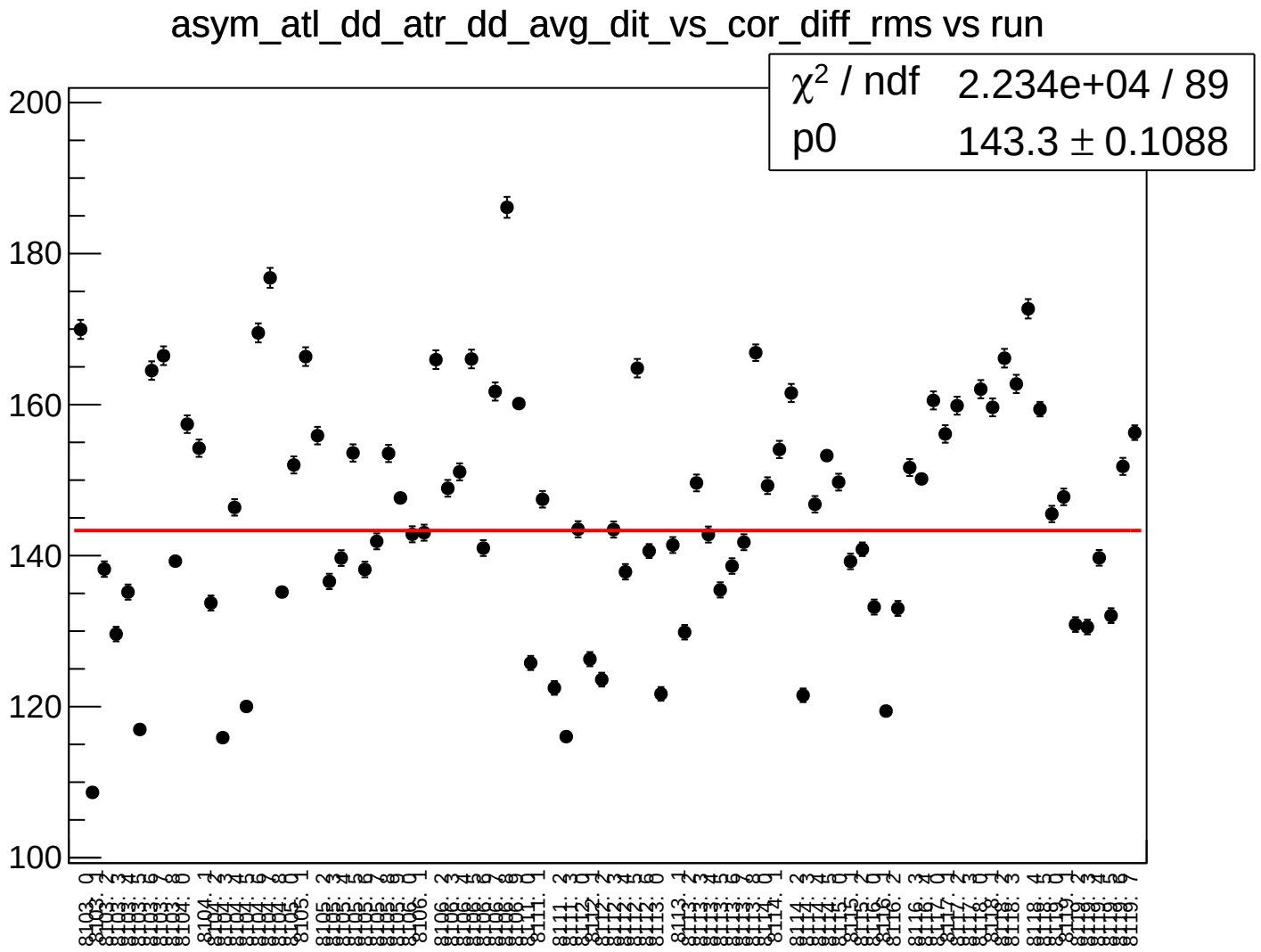

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2809 / 89
p0 5494 ± 4.146
6200
6000
5800
5600
5400
5200
5000

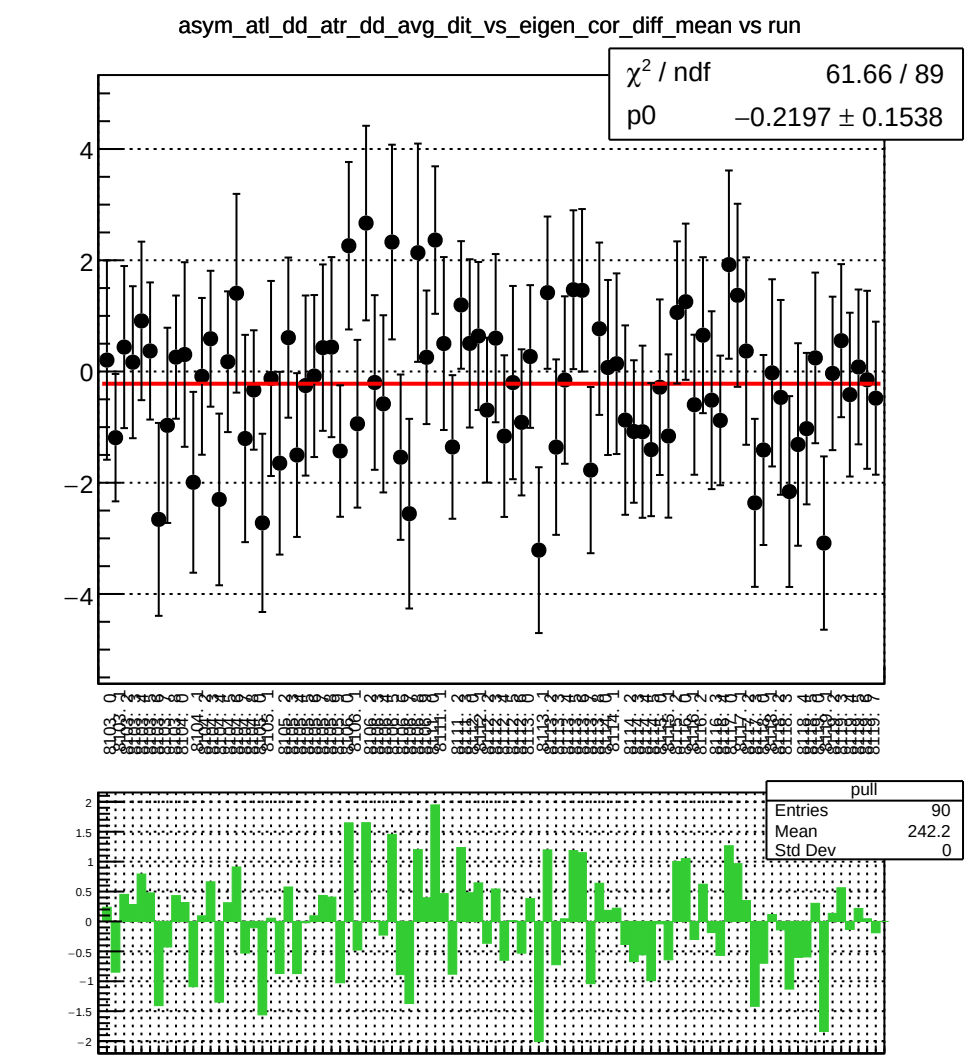

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.23 / 89
p0 2.029e−12 ± 8.596e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 90
Mean 55.8
Std Dev 32.68
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.04951
Std Dev 0.925
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

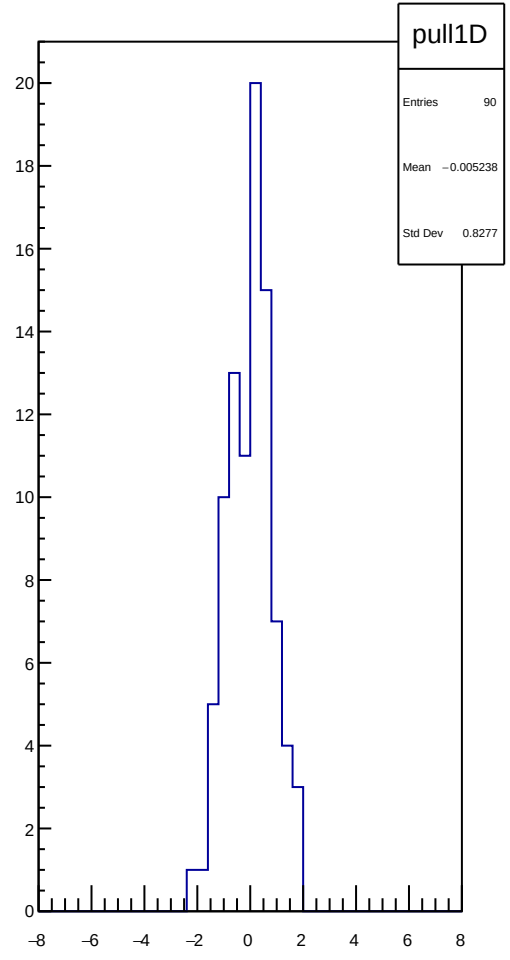

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.413e+05 / 89
p0 5.822e−10 ± 6.078e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

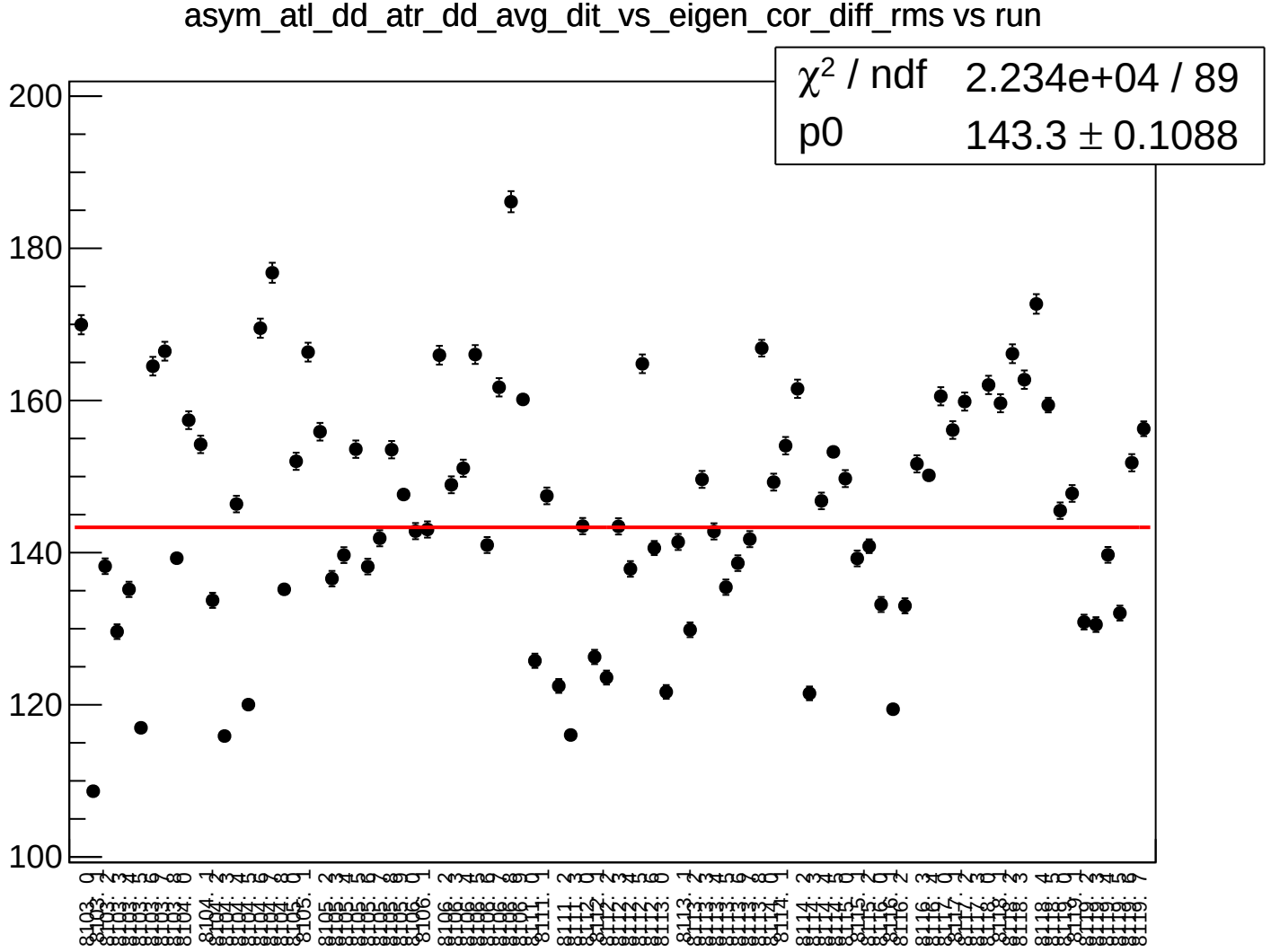

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 61.66 / 89
p0 −0.2197 ± 0.1538
pull
Entries 90
Mean 242.2
Std Dev 0

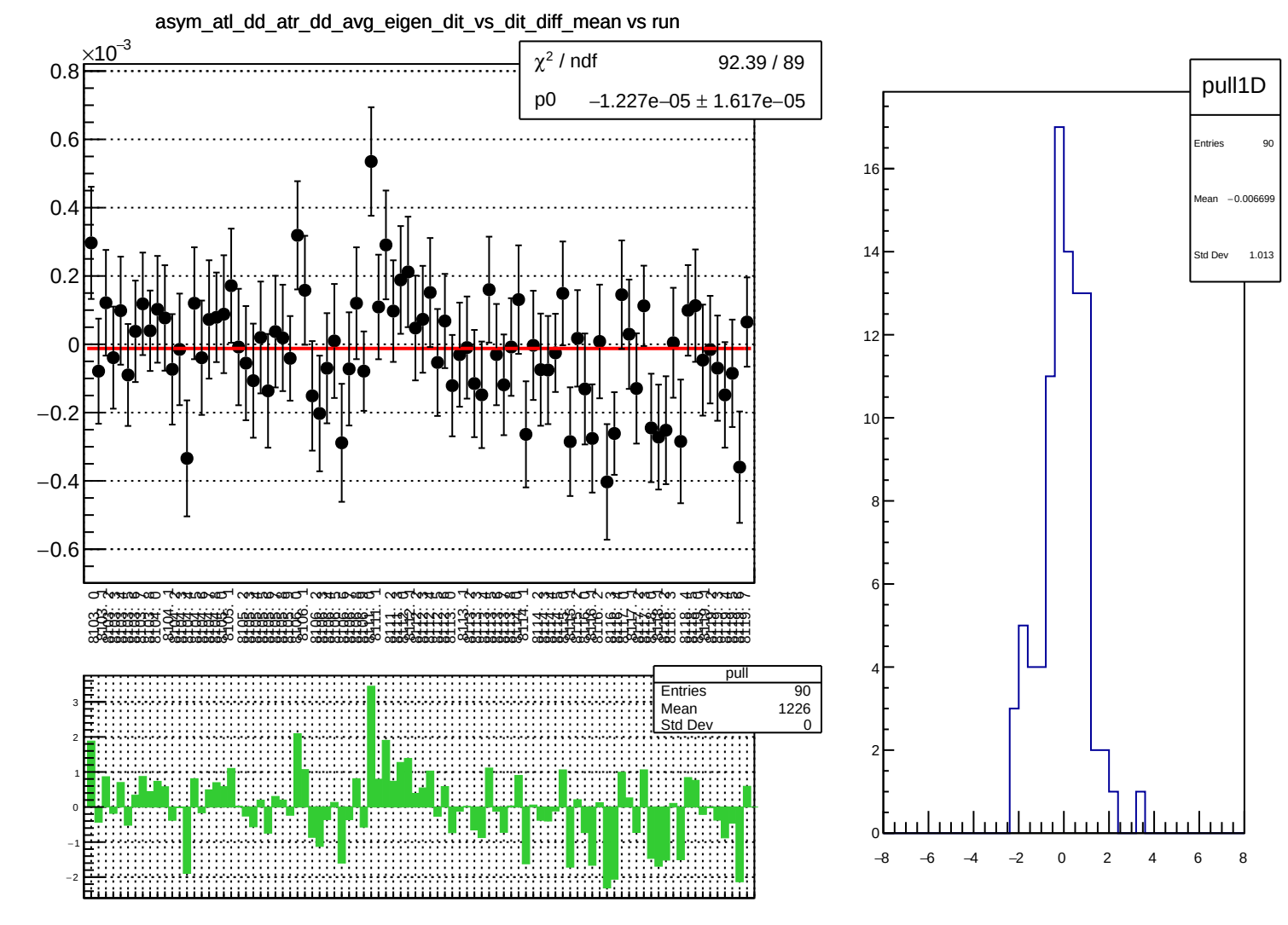

pull1D
Entries 90
Mean −0.005238
Std Dev 0.8277

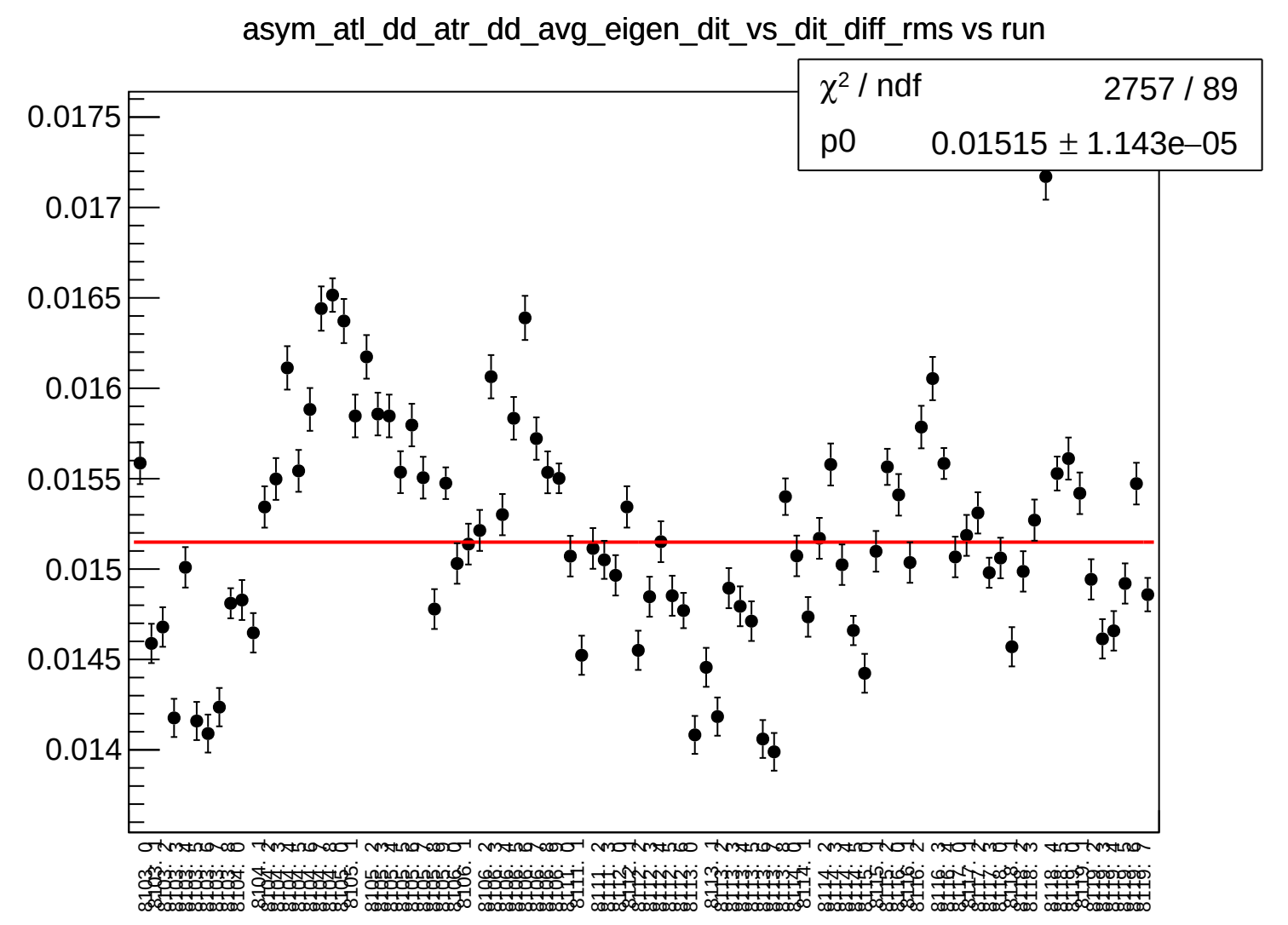

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

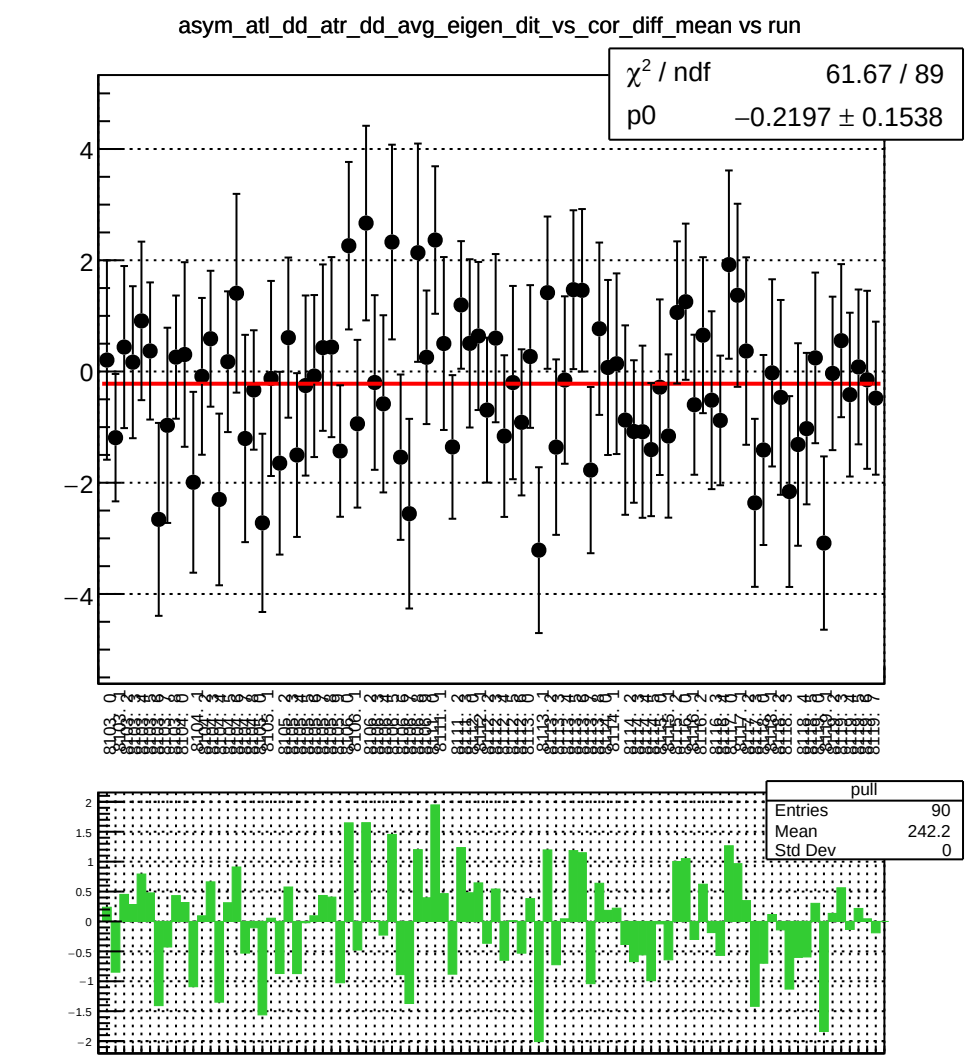

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.66 / 89
p0 −0.2197 ± 0.1538
pull
Entries 90
Mean 242.2
Std Dev 0

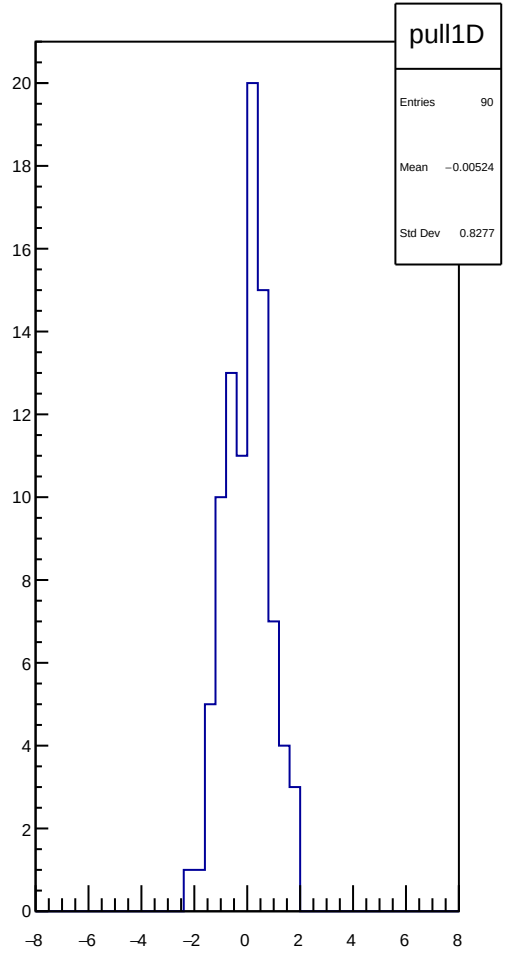

pull1D
Entries 90
Mean −0.005238
Std Dev 0.8277

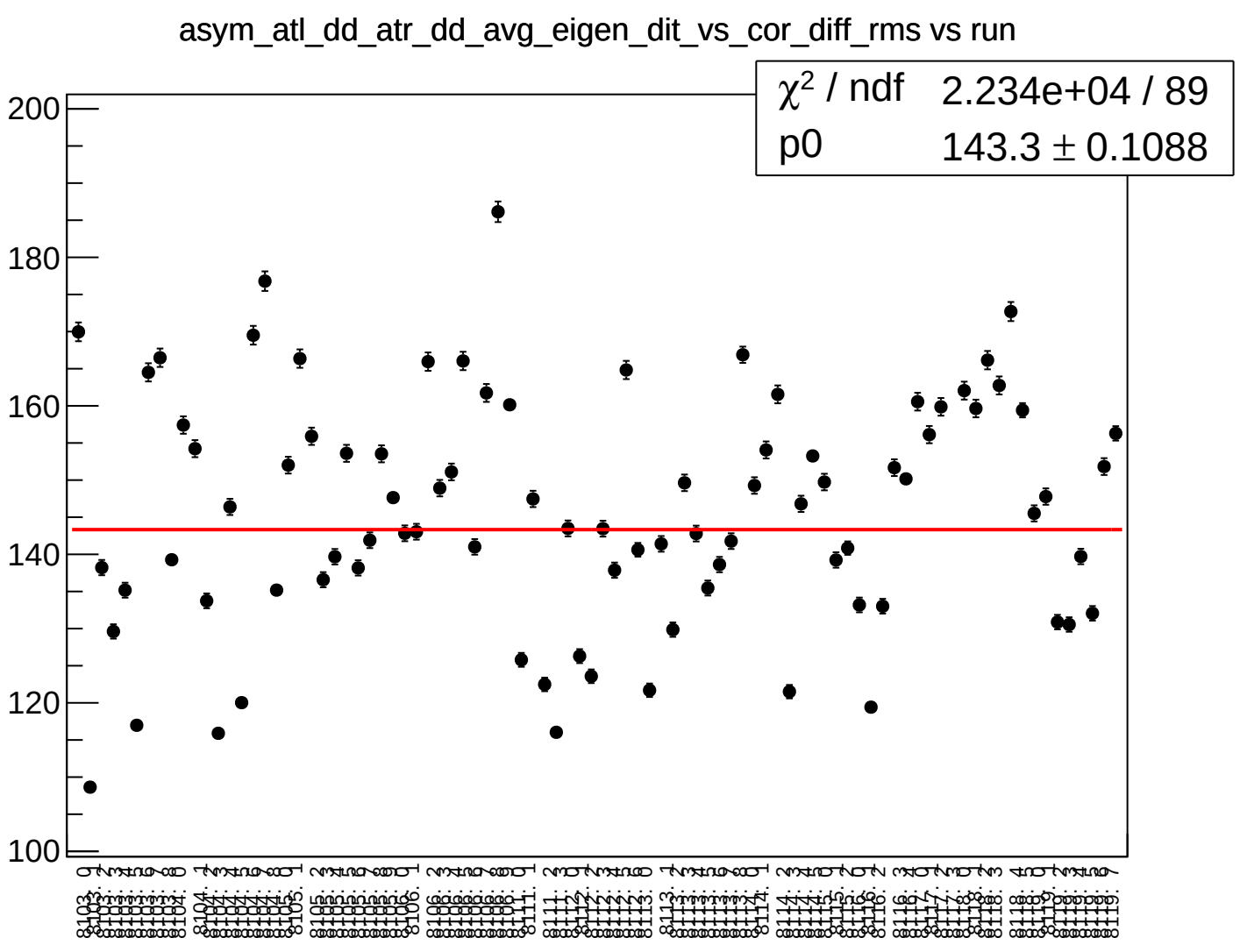

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

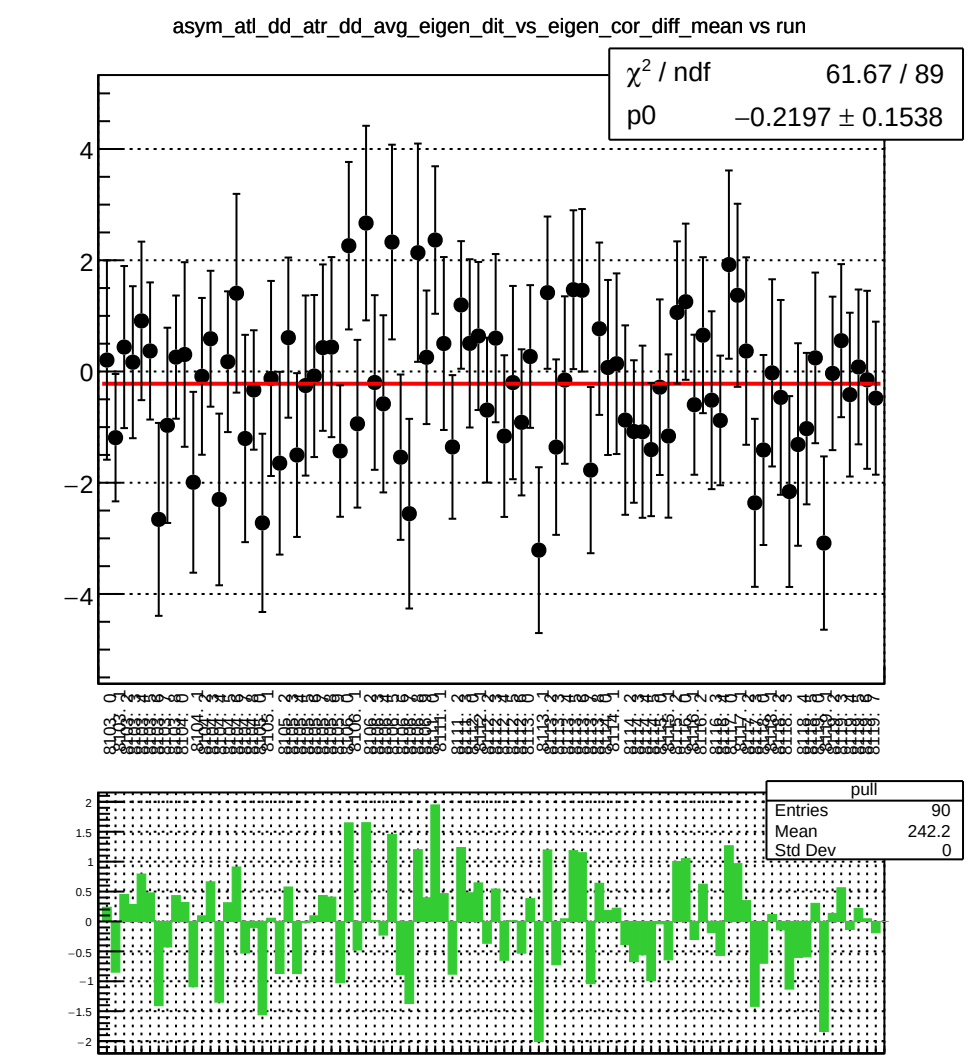

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.39 / 89
p0 −1.227e−05 ± 1.617e−05
pull
Entries 90
Mean 1226
Std Dev 0
pull1D
Entries 90
Mean −0.006699
Std Dev 1.013

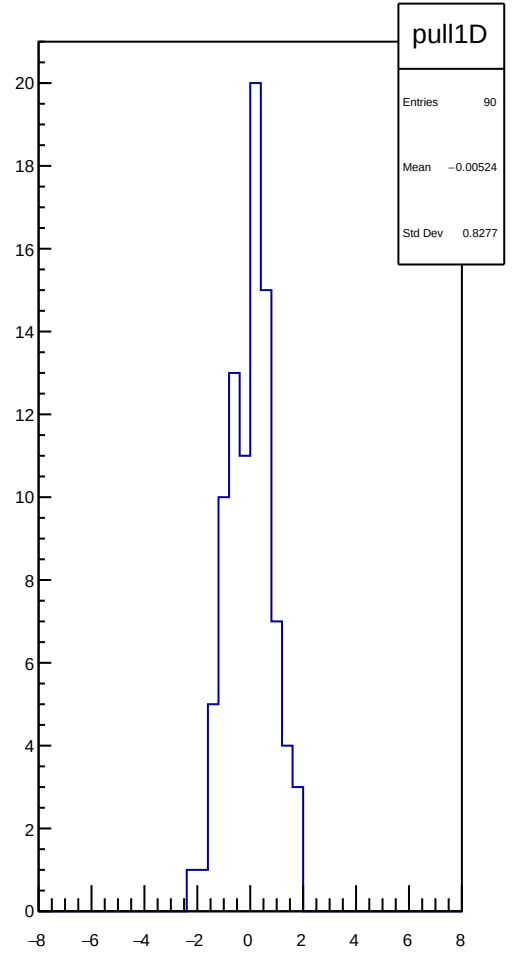

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2757 / 89
p0 0.01515 ± 1.143e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

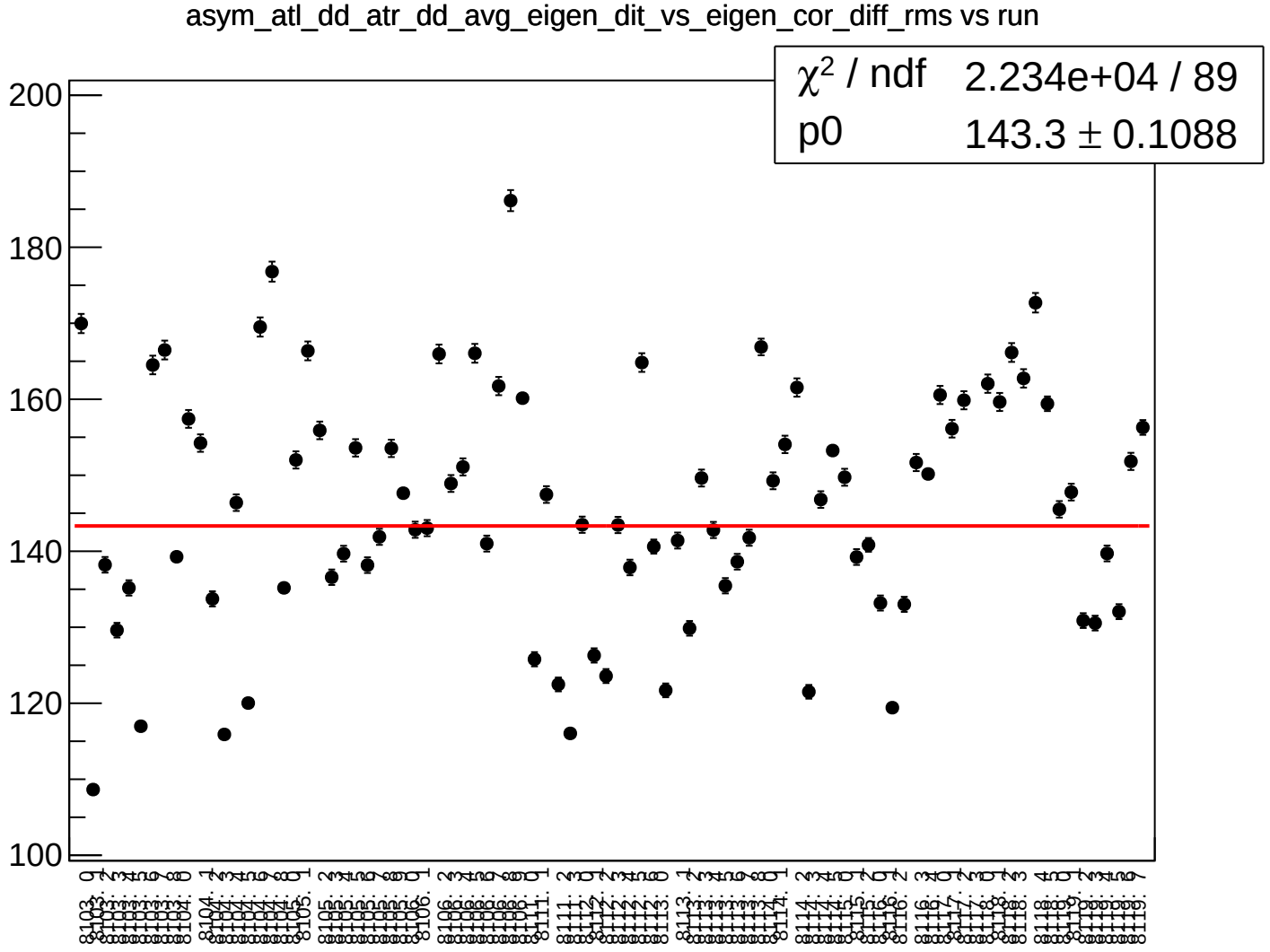

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.67 / 89
p0 −0.2197 ± 0.1538
pull
Entries 90
Mean 242.2
Std Dev 0

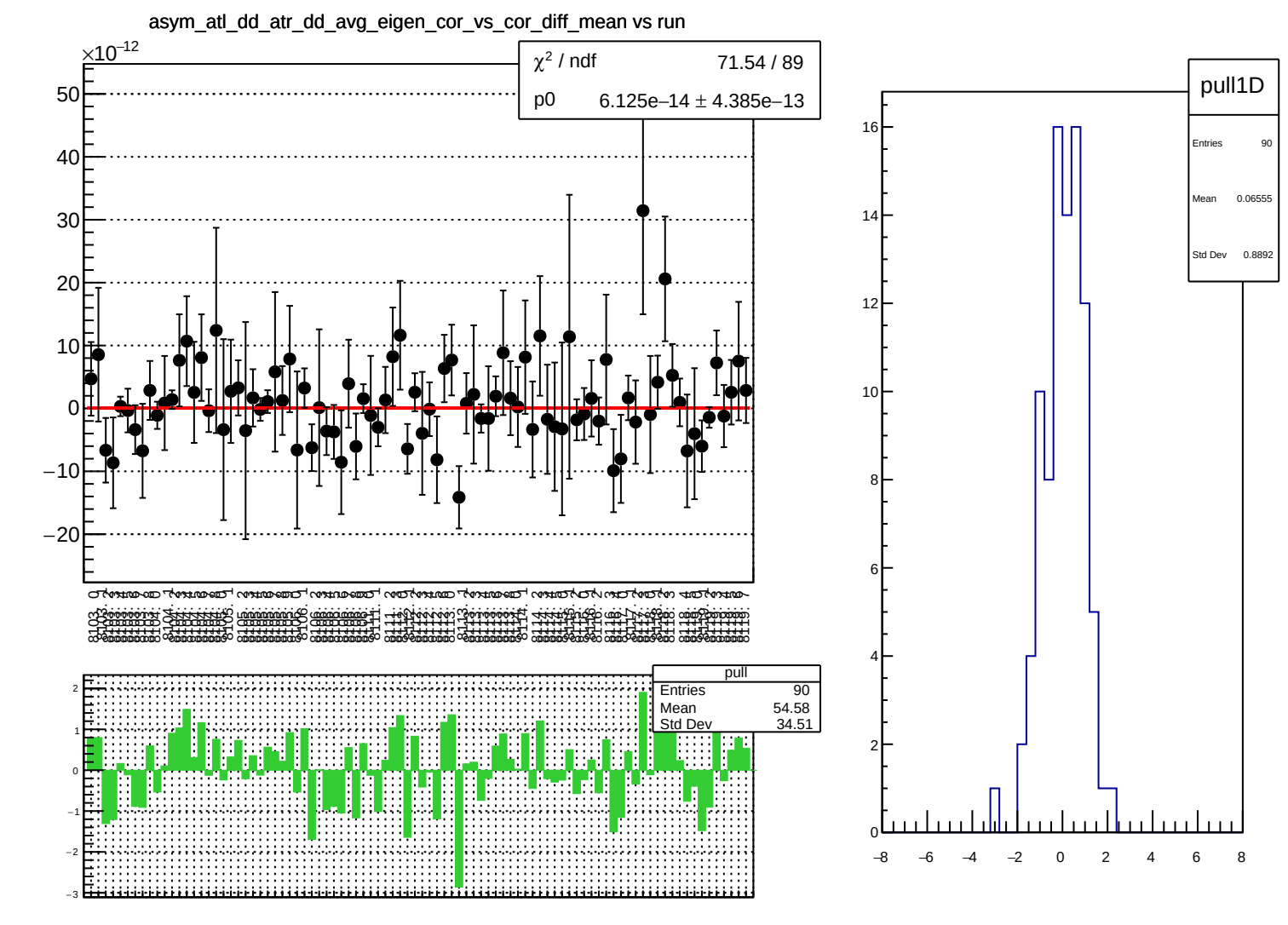

pull1D
Entries 90
Mean −0.00524
Std Dev 0.8277

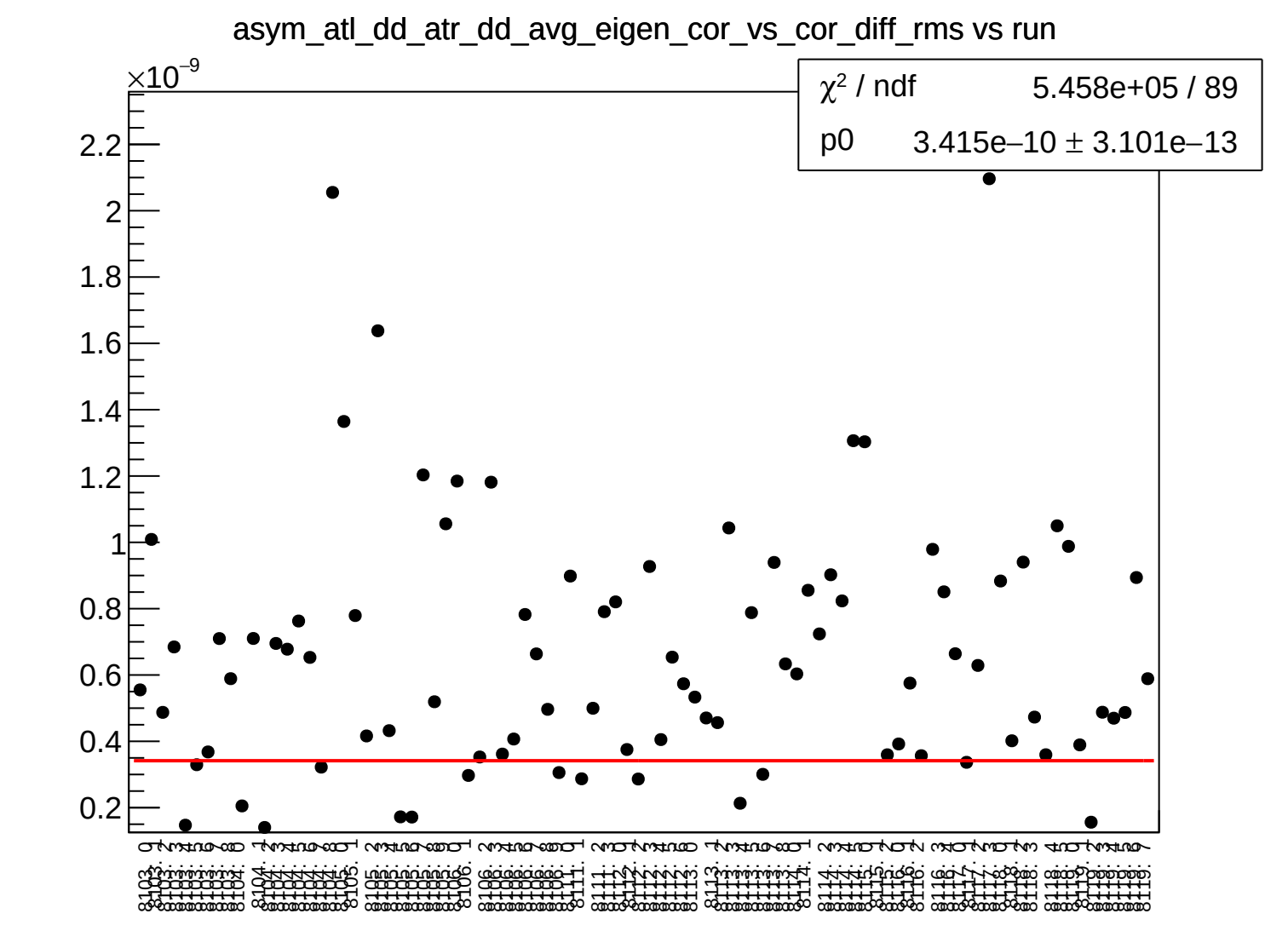

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

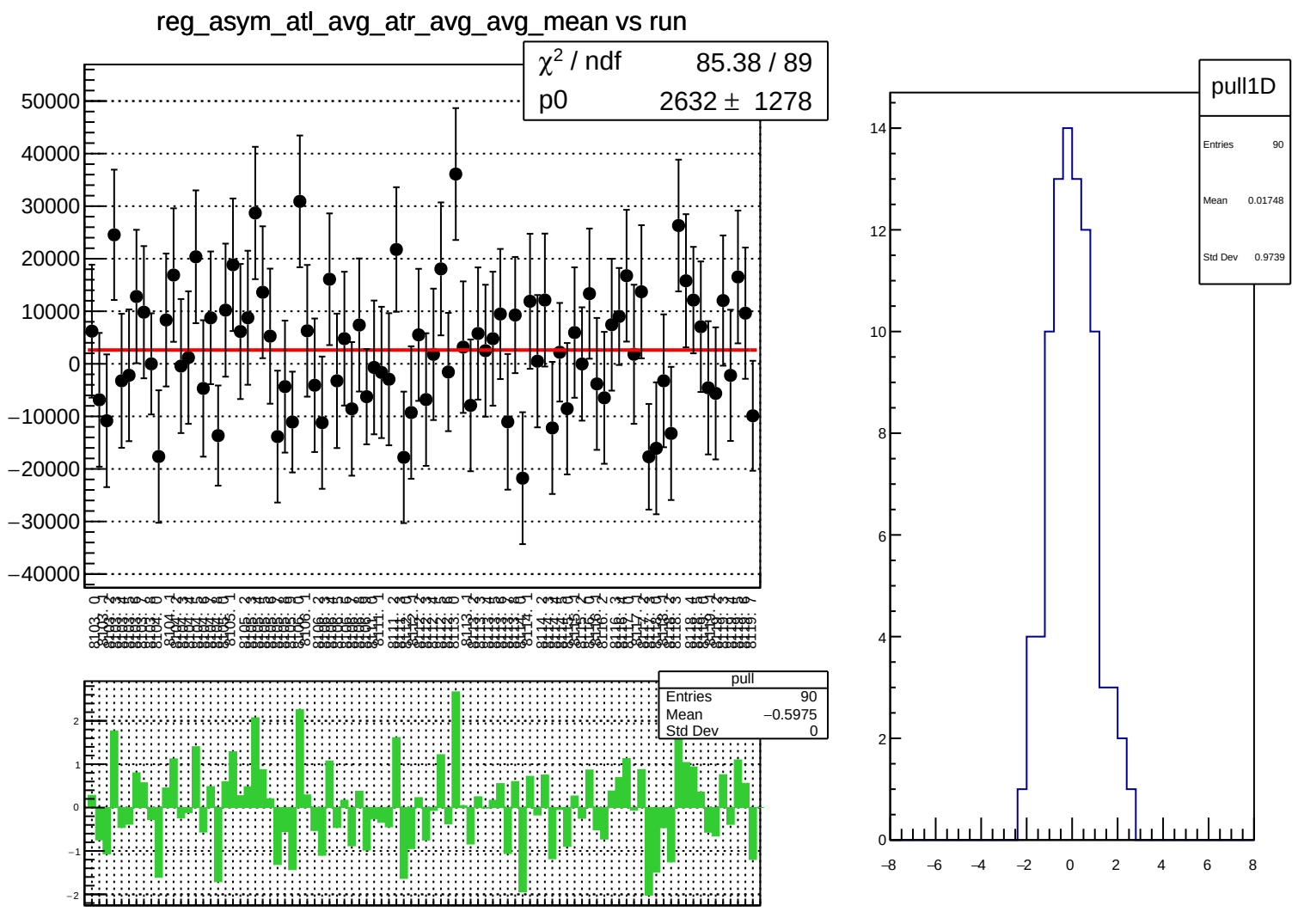

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.67 / 89
p0 −0.2197 ± 0.1538
pull
Entries 90
Mean 242.2
Std Dev 0

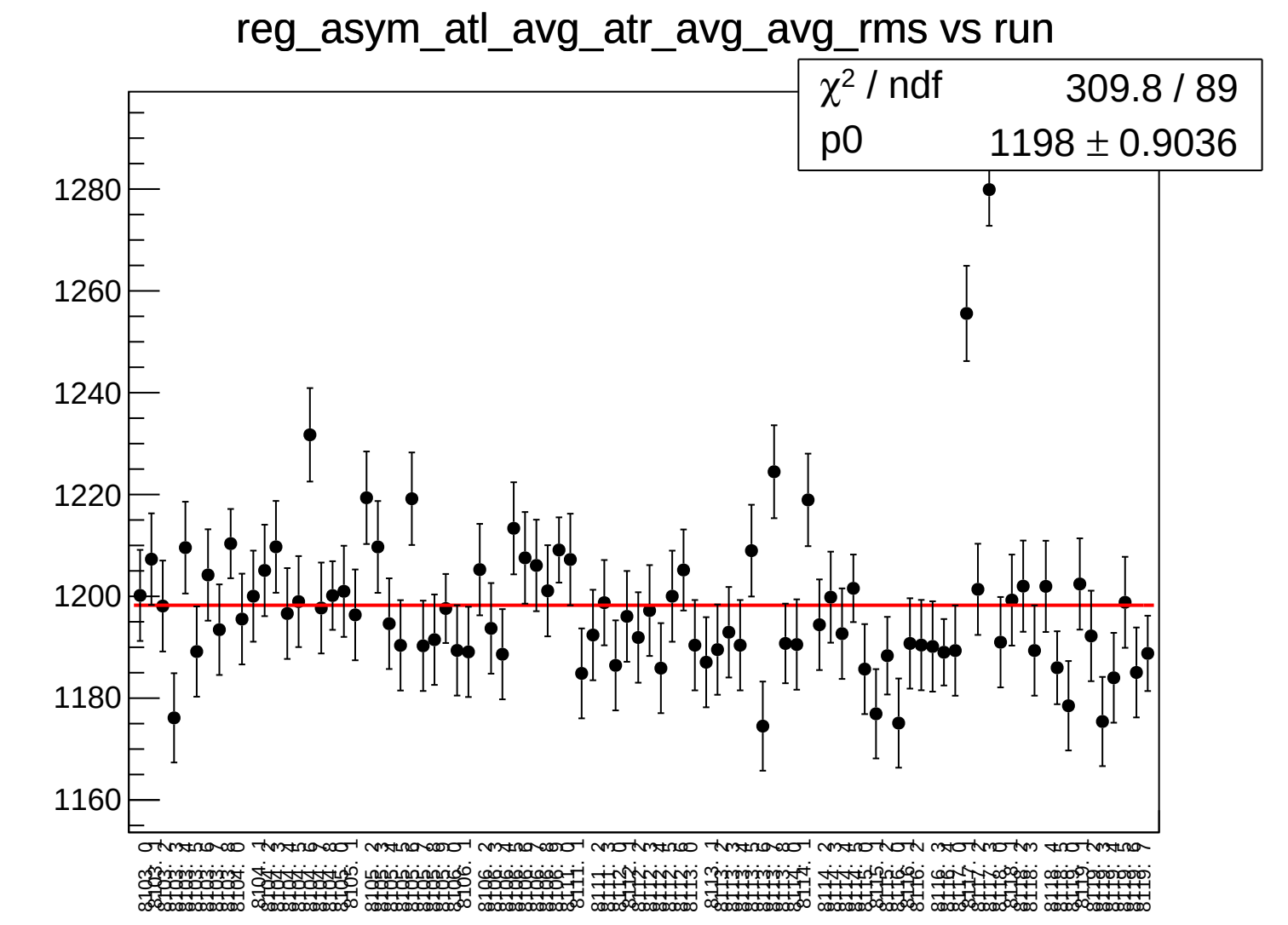

pull1D
Entries 90
Mean −0.00524
Std Dev 0.8277

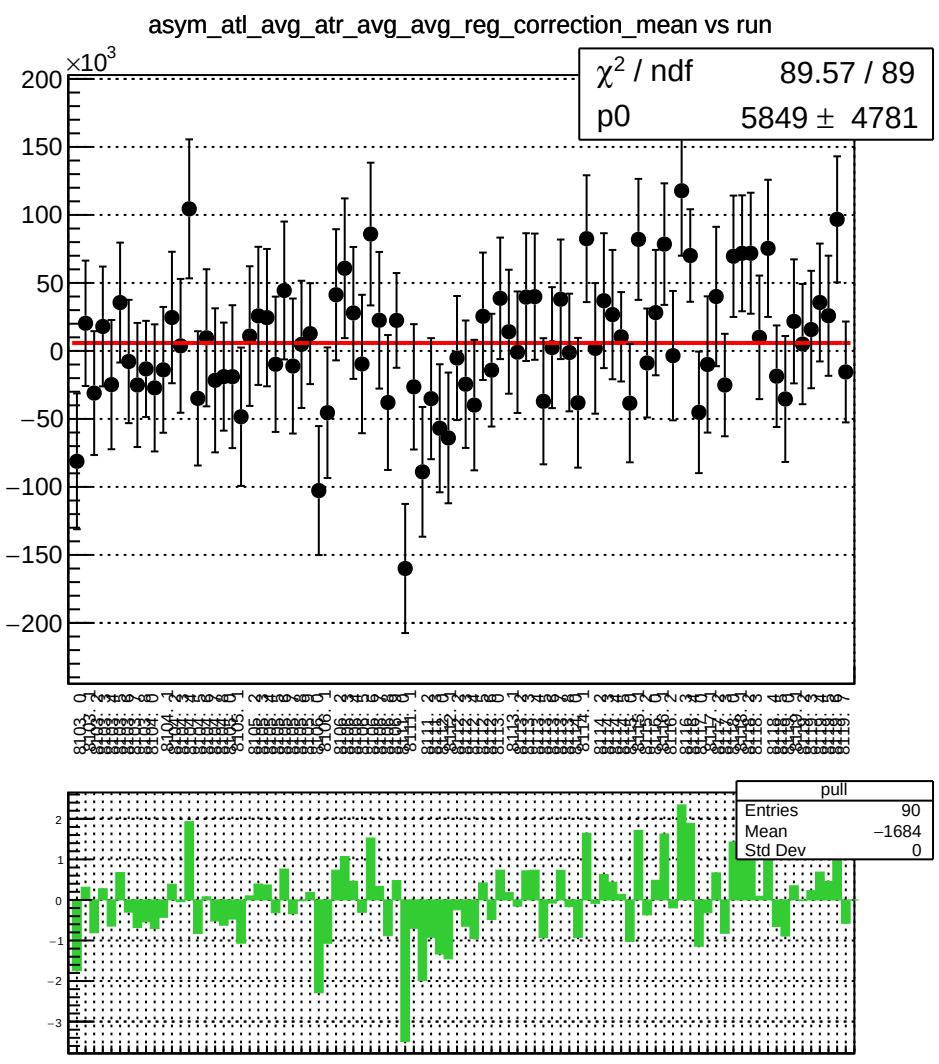

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

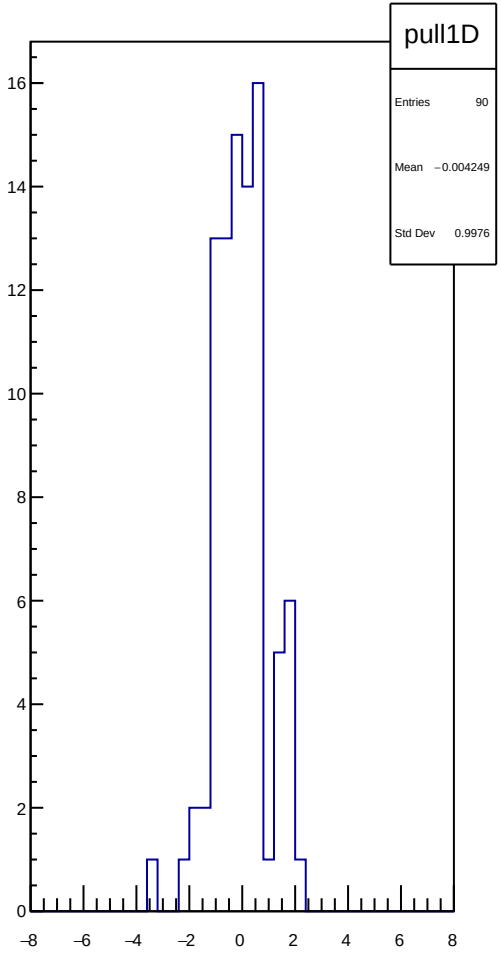

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 71.54 / 89
p0 6.125e−14 ± 4.385e−13
pull
Entries 90
Mean 54.58
Std Dev 34.51
pull1D
Entries 90
Mean 0.06555
Std Dev 0.8892

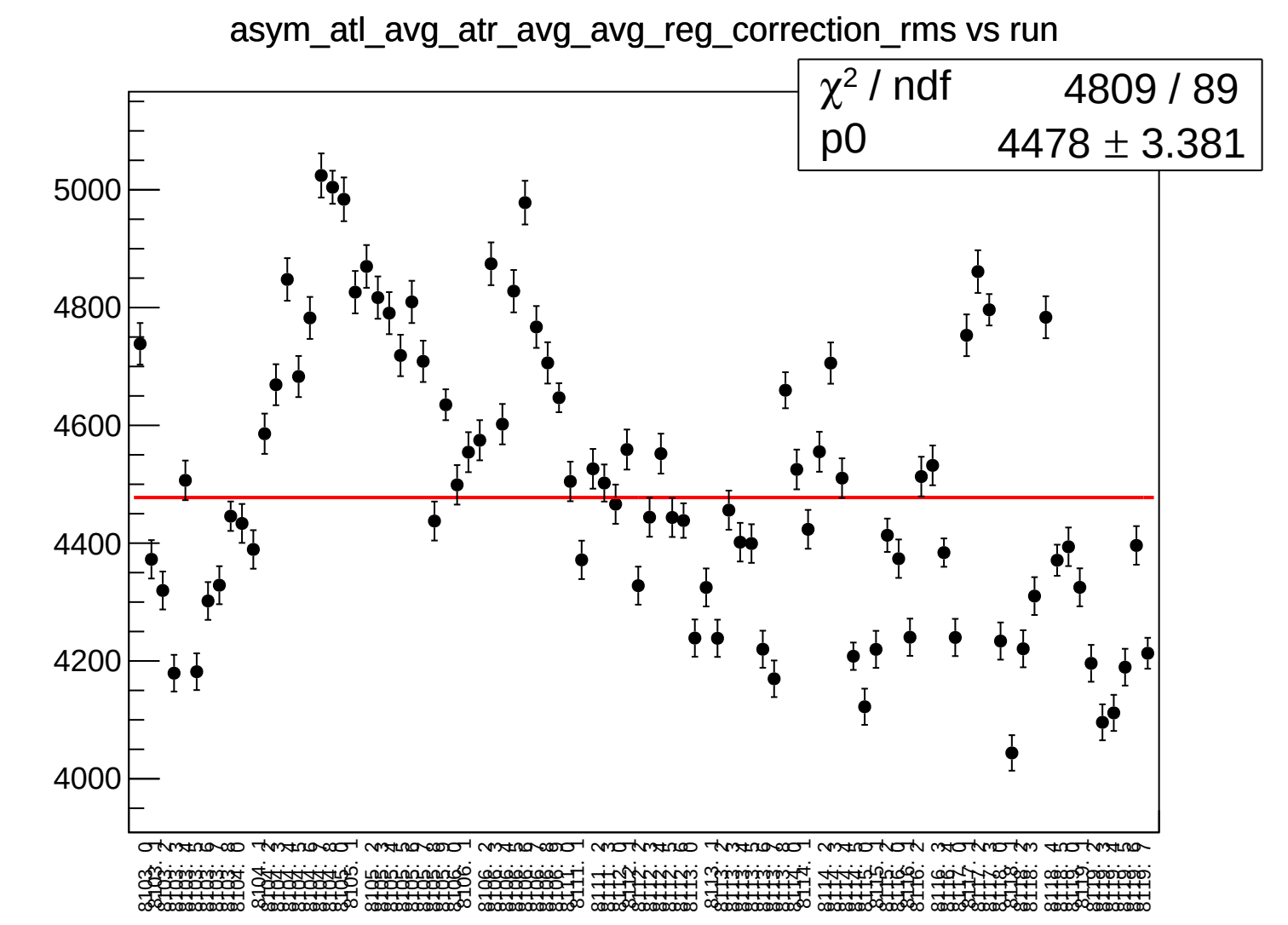

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.458e+05 / 89
p0 3.415e−10 ± 3.101e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

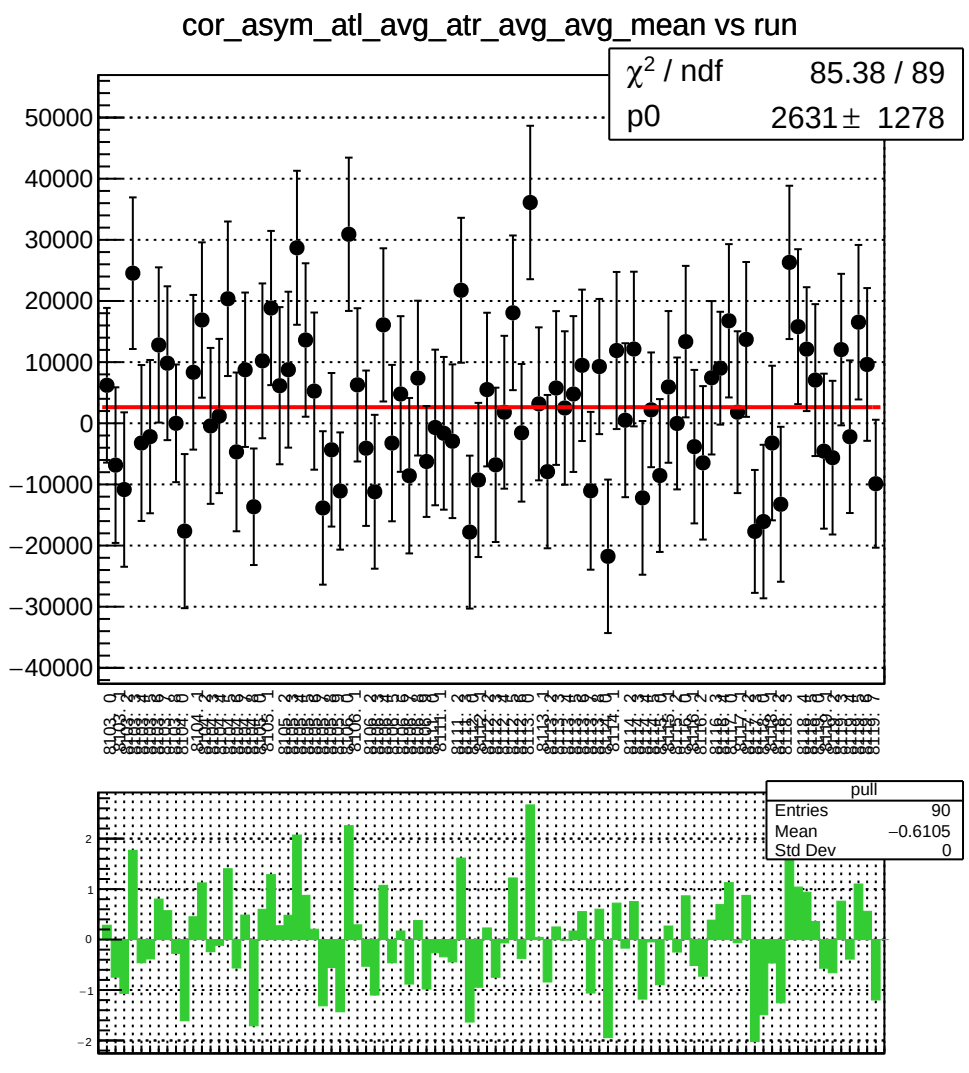

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 85.38 / 89
p0 2632 ± 1278
pull
Entries 90
Mean −0.5975
Std Dev 0
pull1D
Entries 90
Mean 0.01748
Std Dev 0.9739

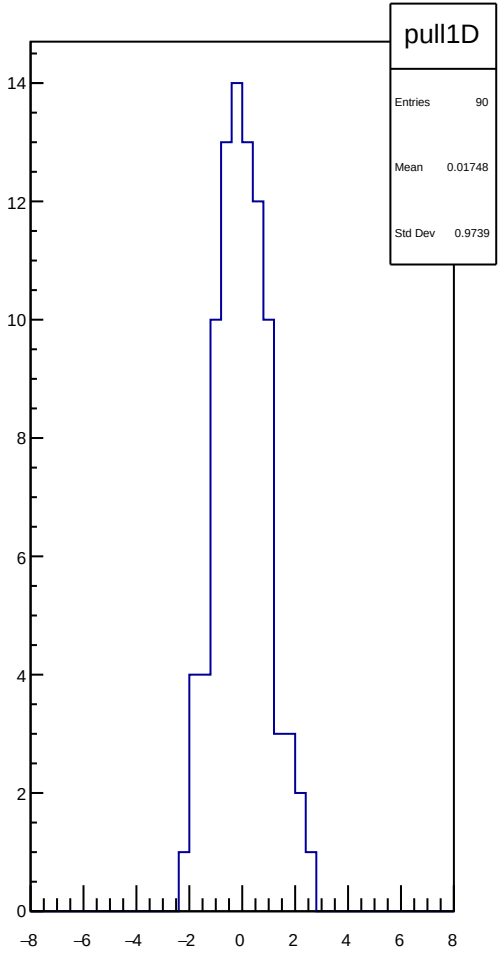

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 309.8 / 89
p0 1198 ± 0.9036
1280
1260
1240
1220
1200
1180
1160

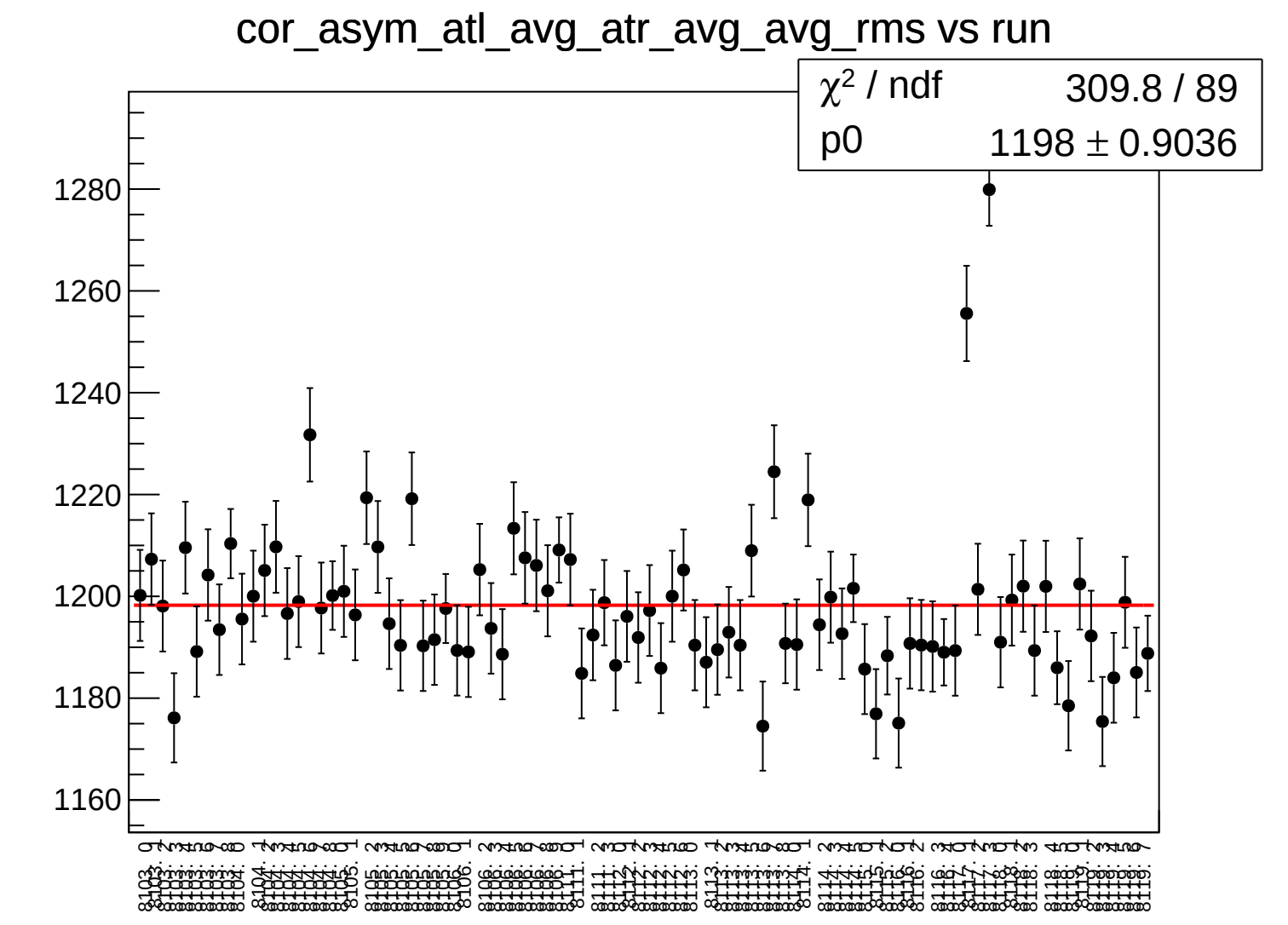

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.57 / 89
p0 5849 ± 4781
pull
Entries 90
Mean −1684
Std Dev 0

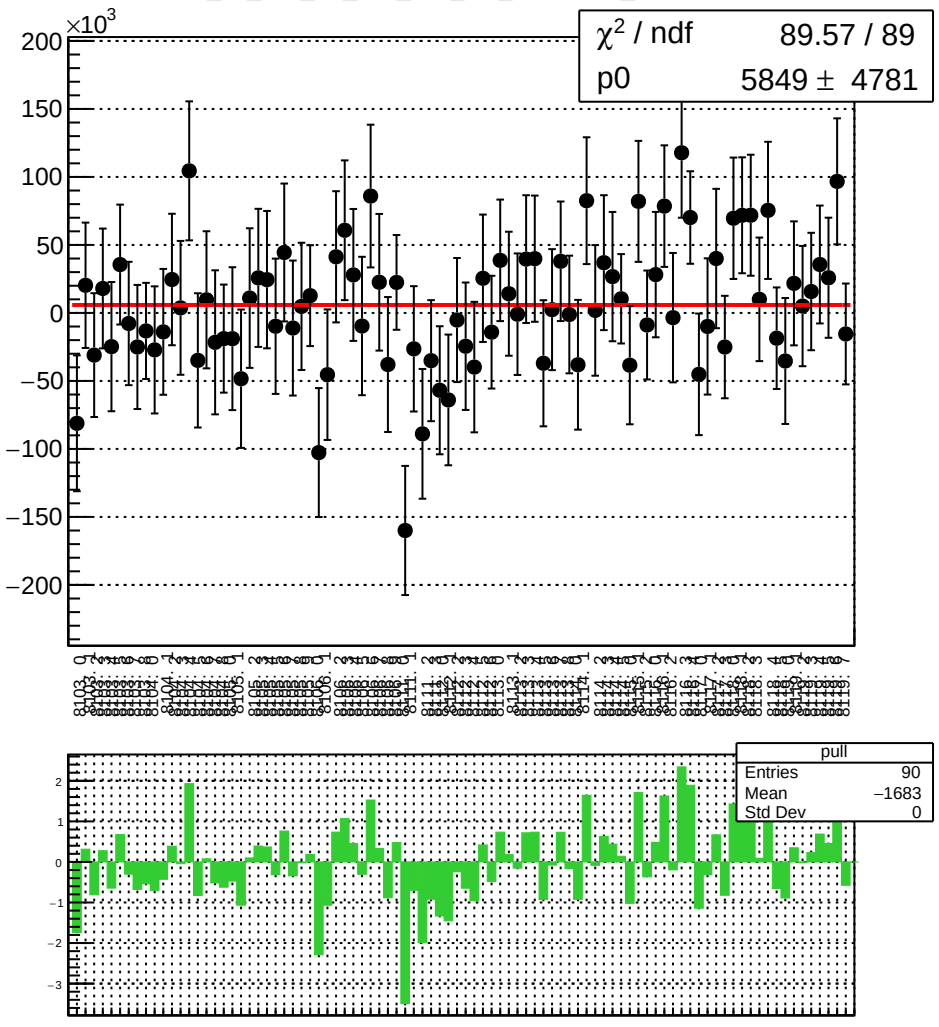

pull1D
Entries 90
Mean −0.004249
Std Dev 0.9976

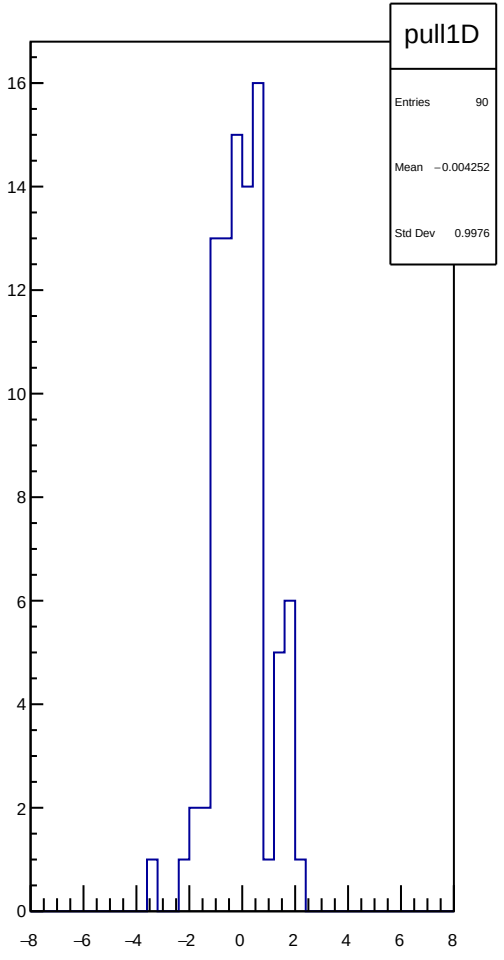

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4809 / 89
p0 4478 ± 3.381
5000
4800
4600
4400
4200
4000

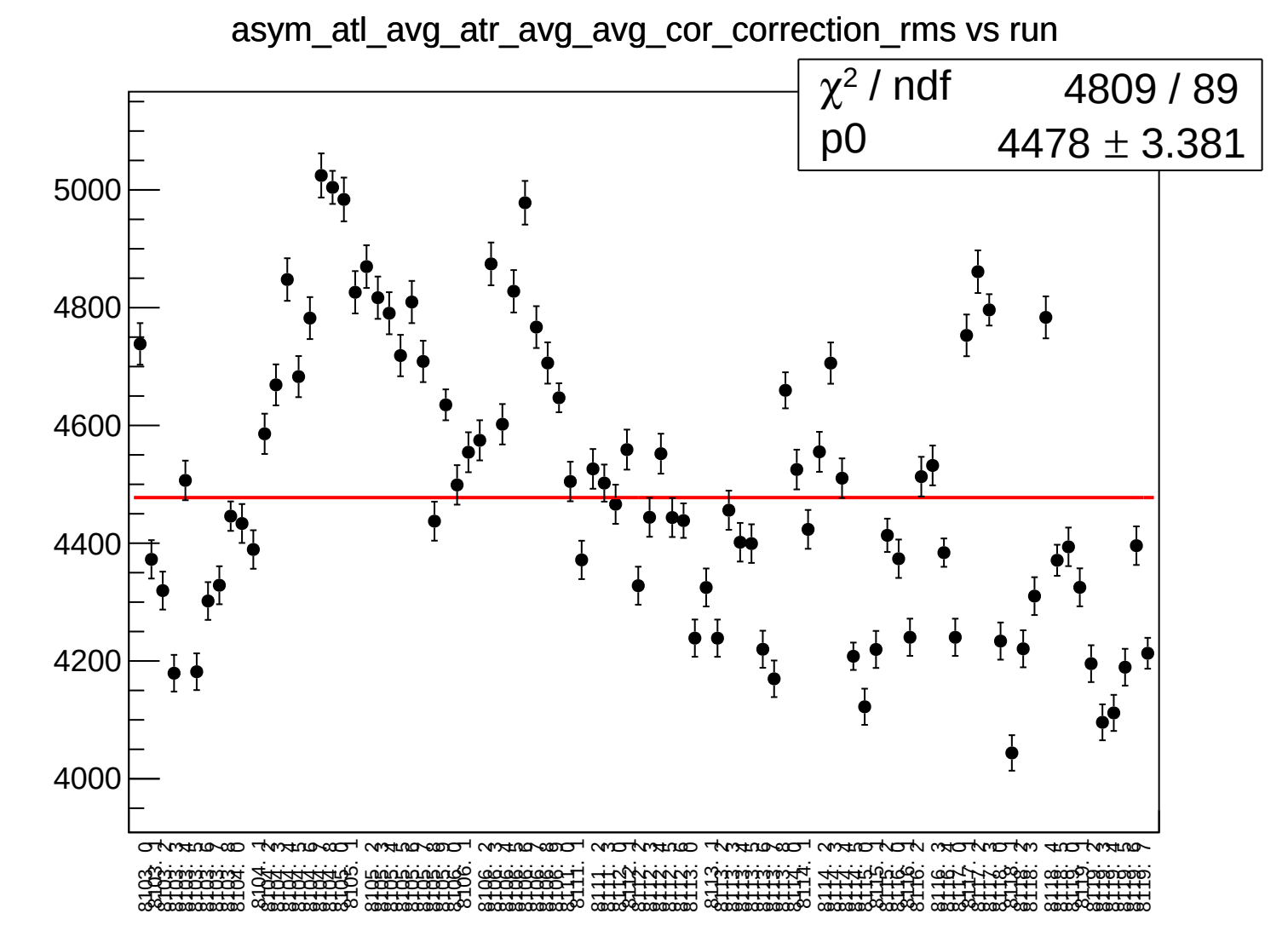

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 85.38 / 89
p0 2631 ± 1278
pull
Entries 90
Mean −0.6105
Std Dev 0

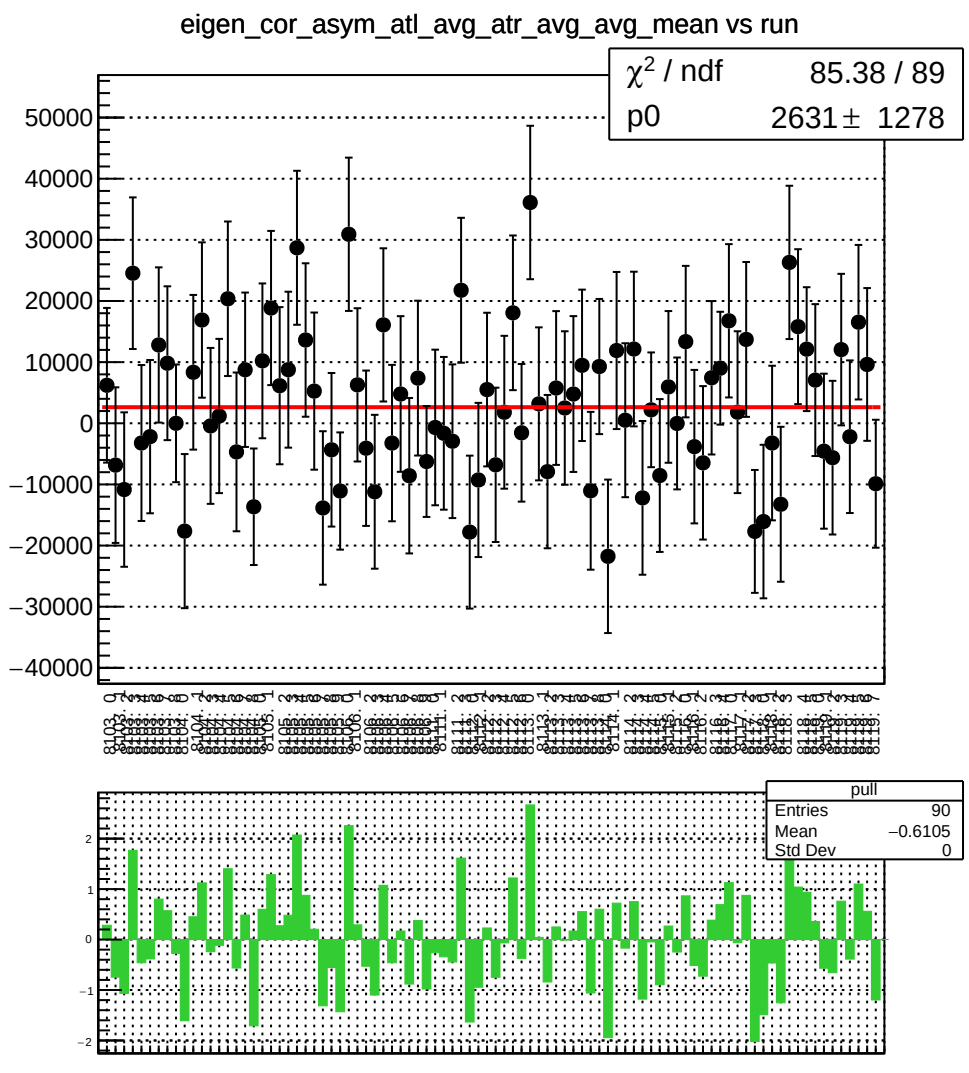

pull1D
Entries 90
Mean 0.01748
Std Dev 0.9739

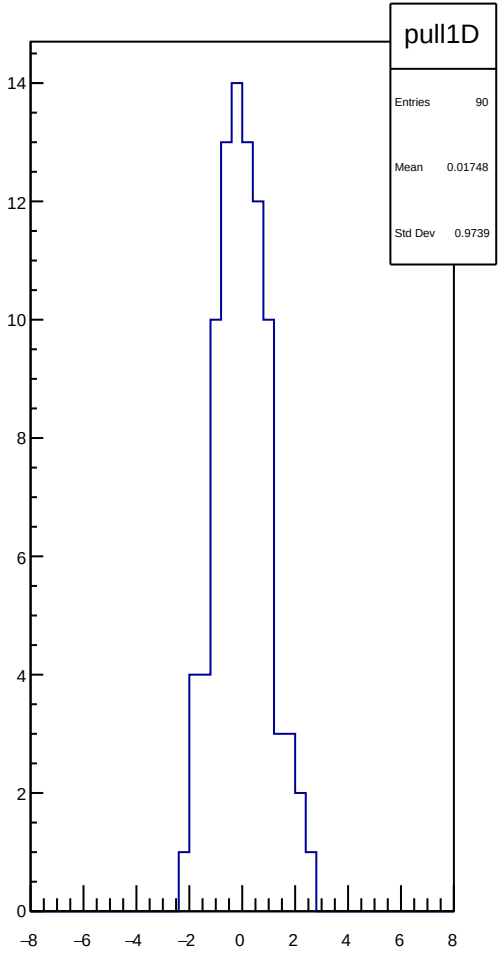

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 309.8 / 89
p0 1198 ± 0.9036
1280
1260
1240
1220
1200
1180
1160

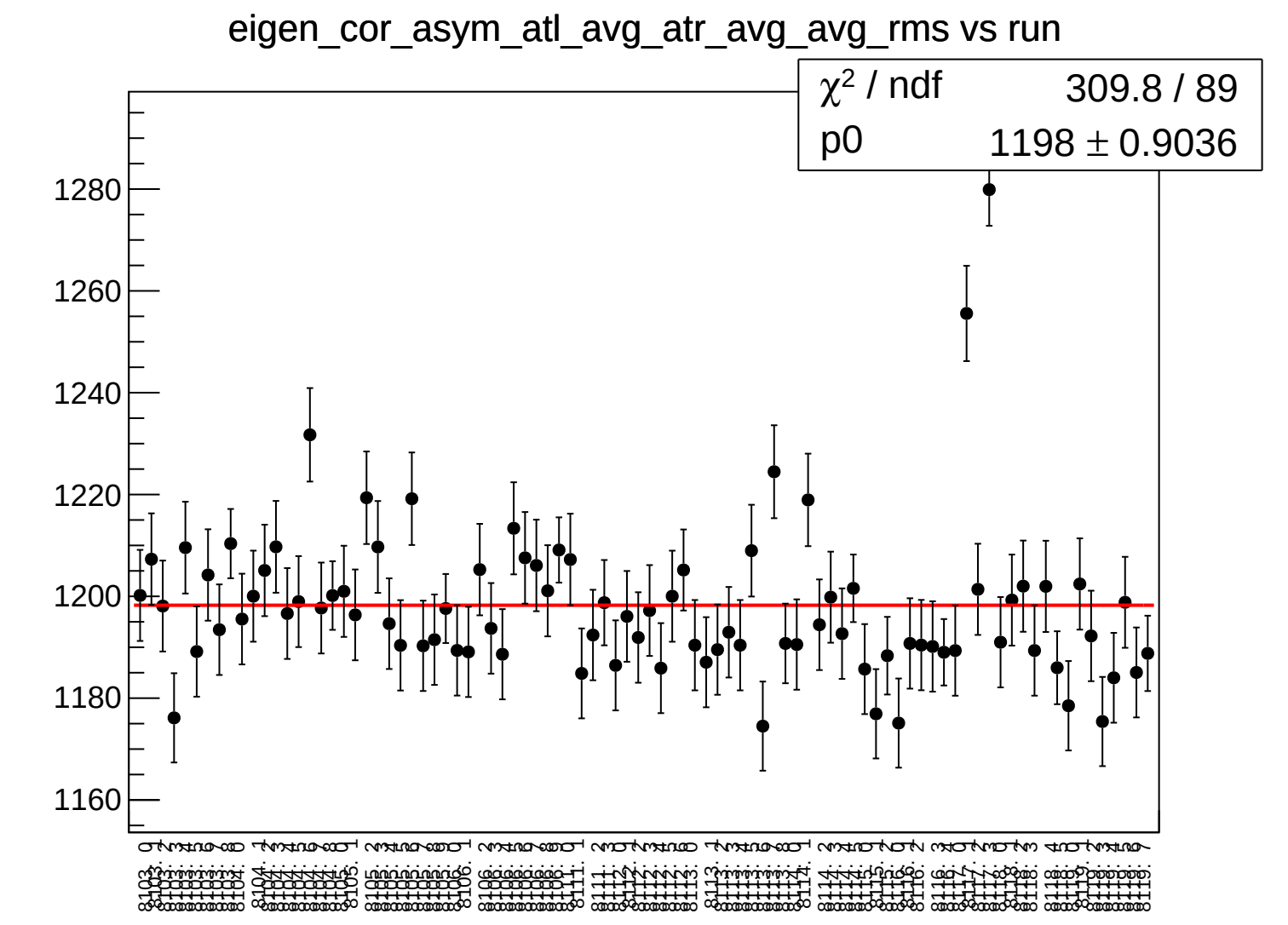

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.57 / 89
p0 5849 ± 4781
pull
Entries 90
Mean −1683
Std Dev 0

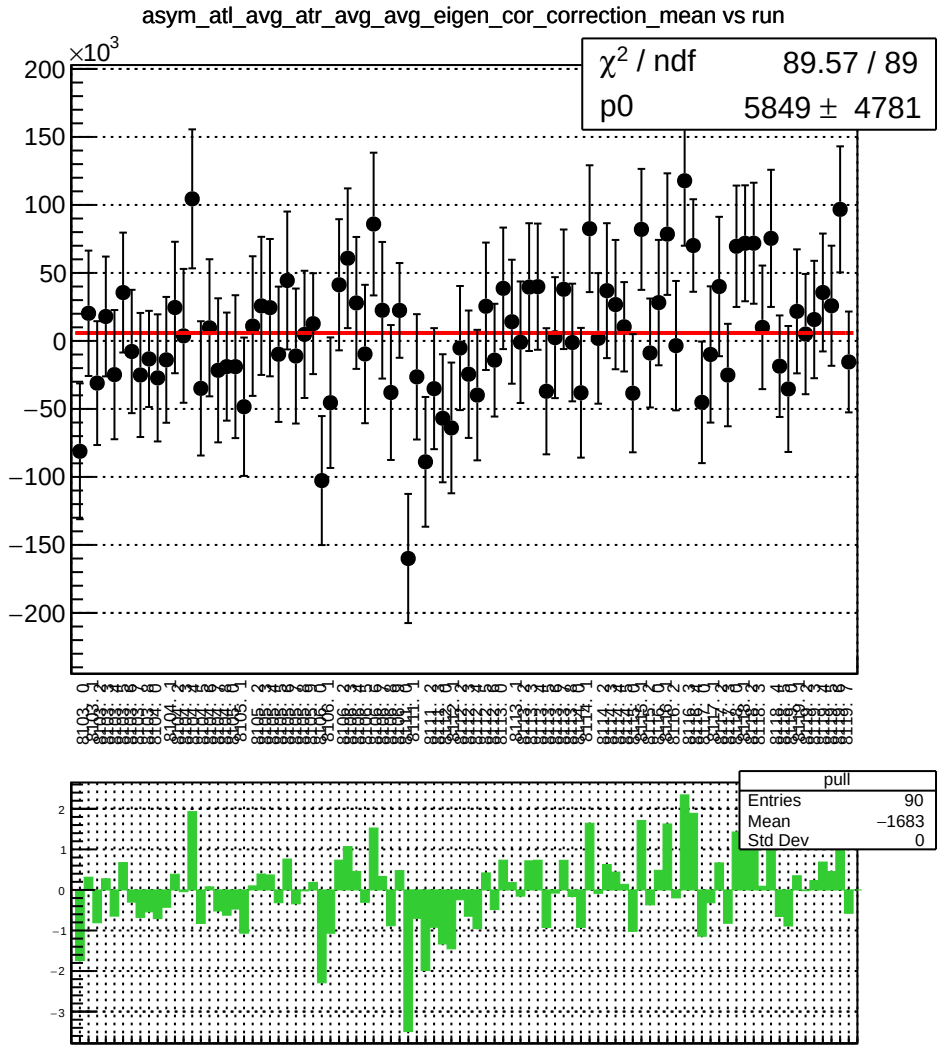

pull1D
Entries 90
Mean −0.004252
Std Dev 0.9976

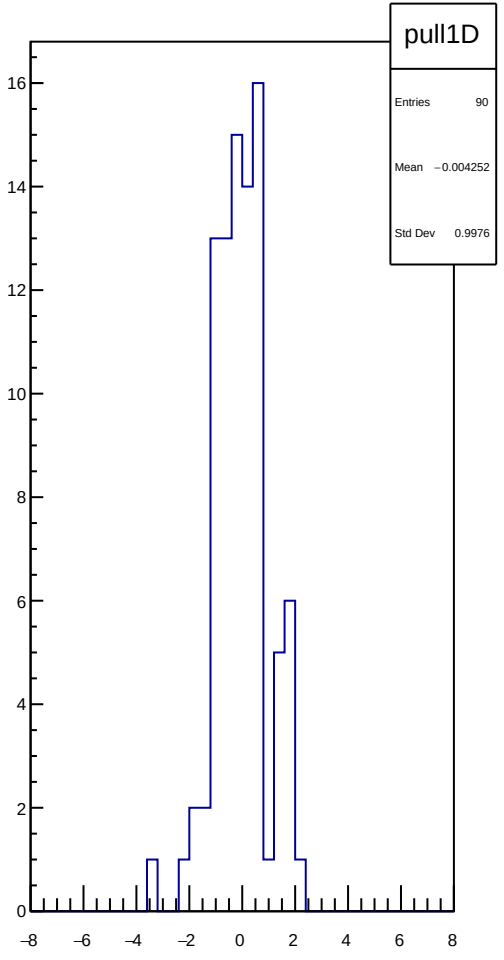

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4809 / 89
p0 4478 ± 3.381
5000
4800
4600
4400
4200
4000

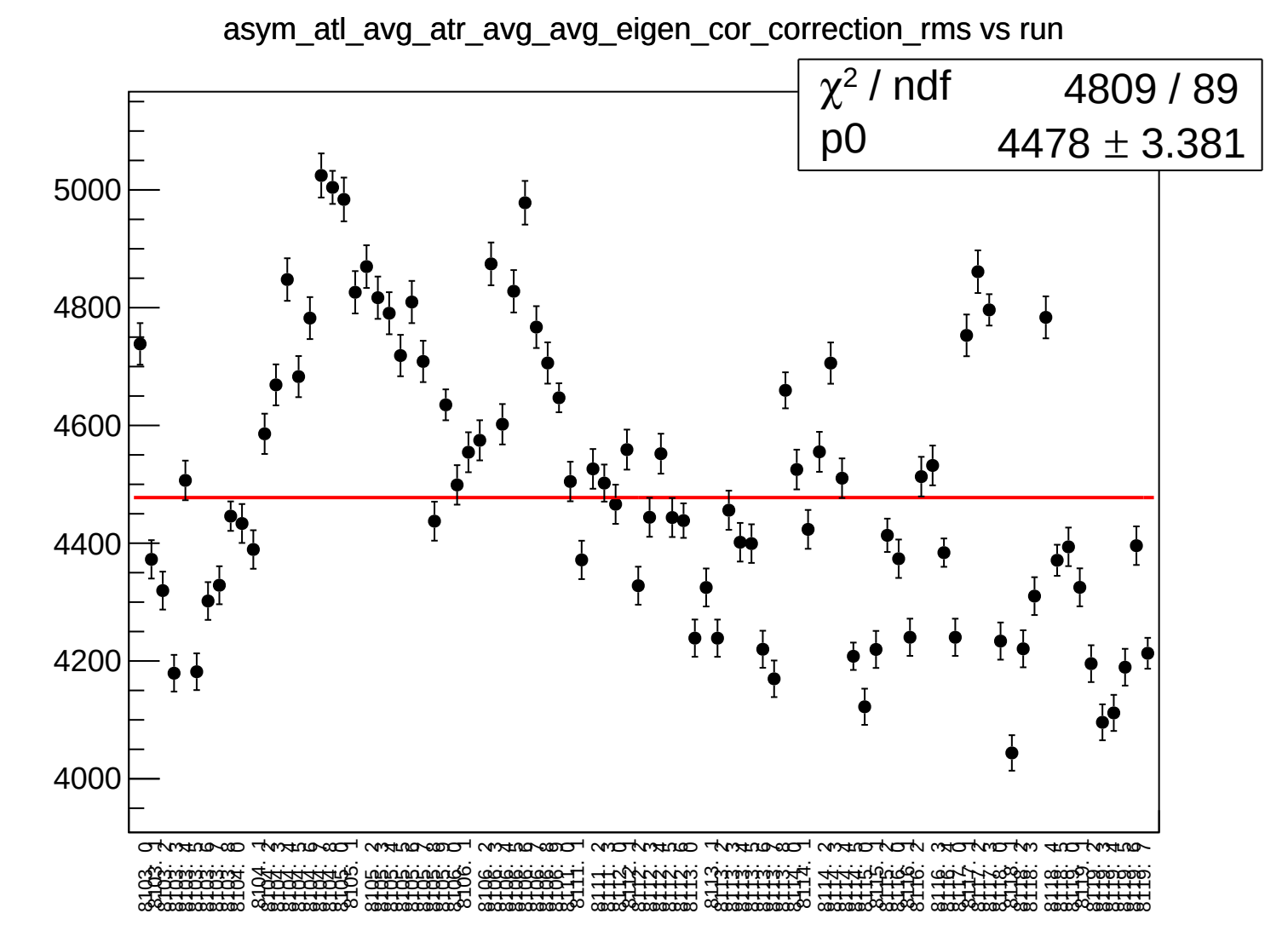

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 85.38 / 89
p0 2631 ± 1278
pull
Entries 90
Mean −0.6105
Std Dev 0

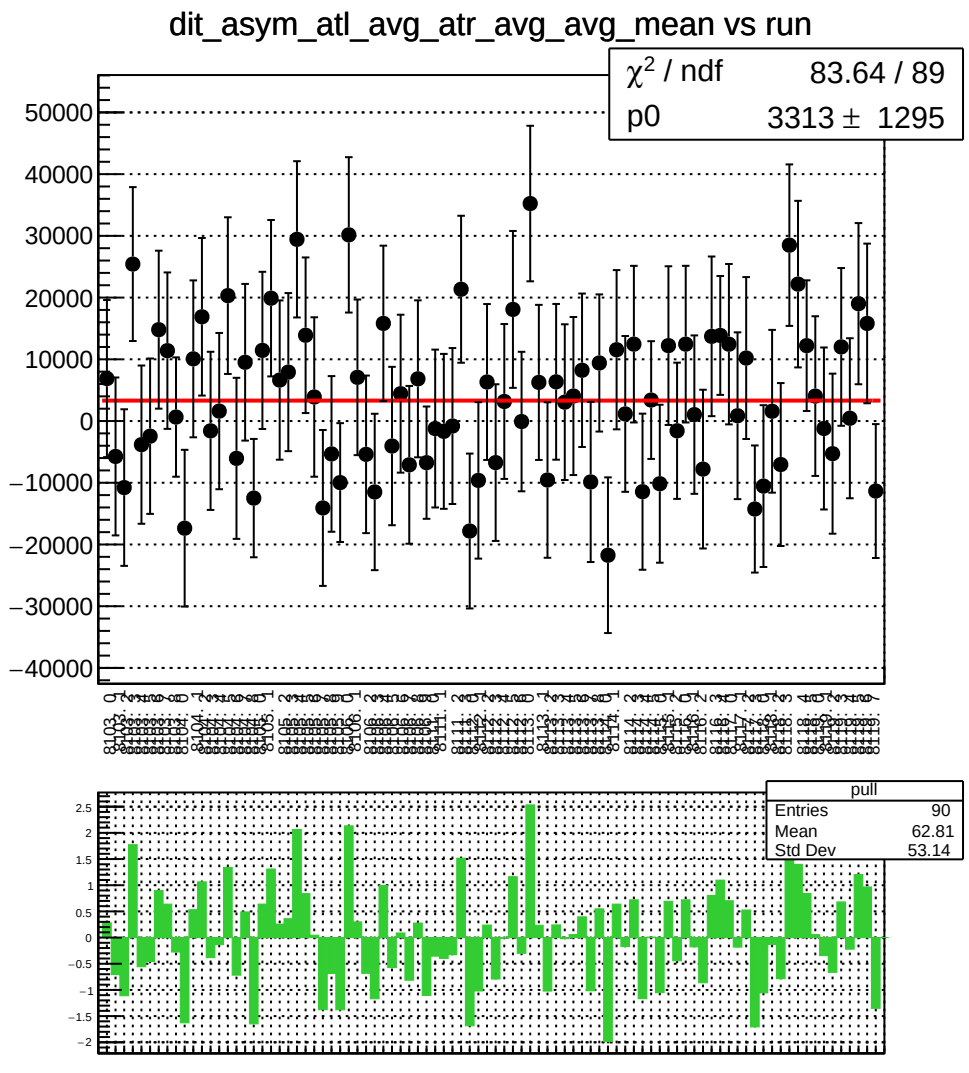

pull1D
Entries 90
Mean 0.01748
Std Dev 0.9739

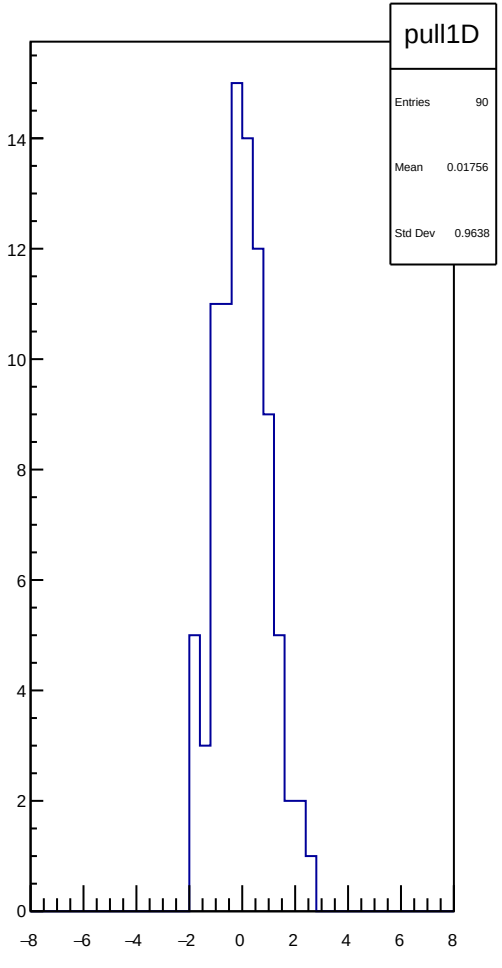

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 309.8 / 89
p0 1198 ± 0.9036
1280
1260
1240
1220
1200
1180
1160

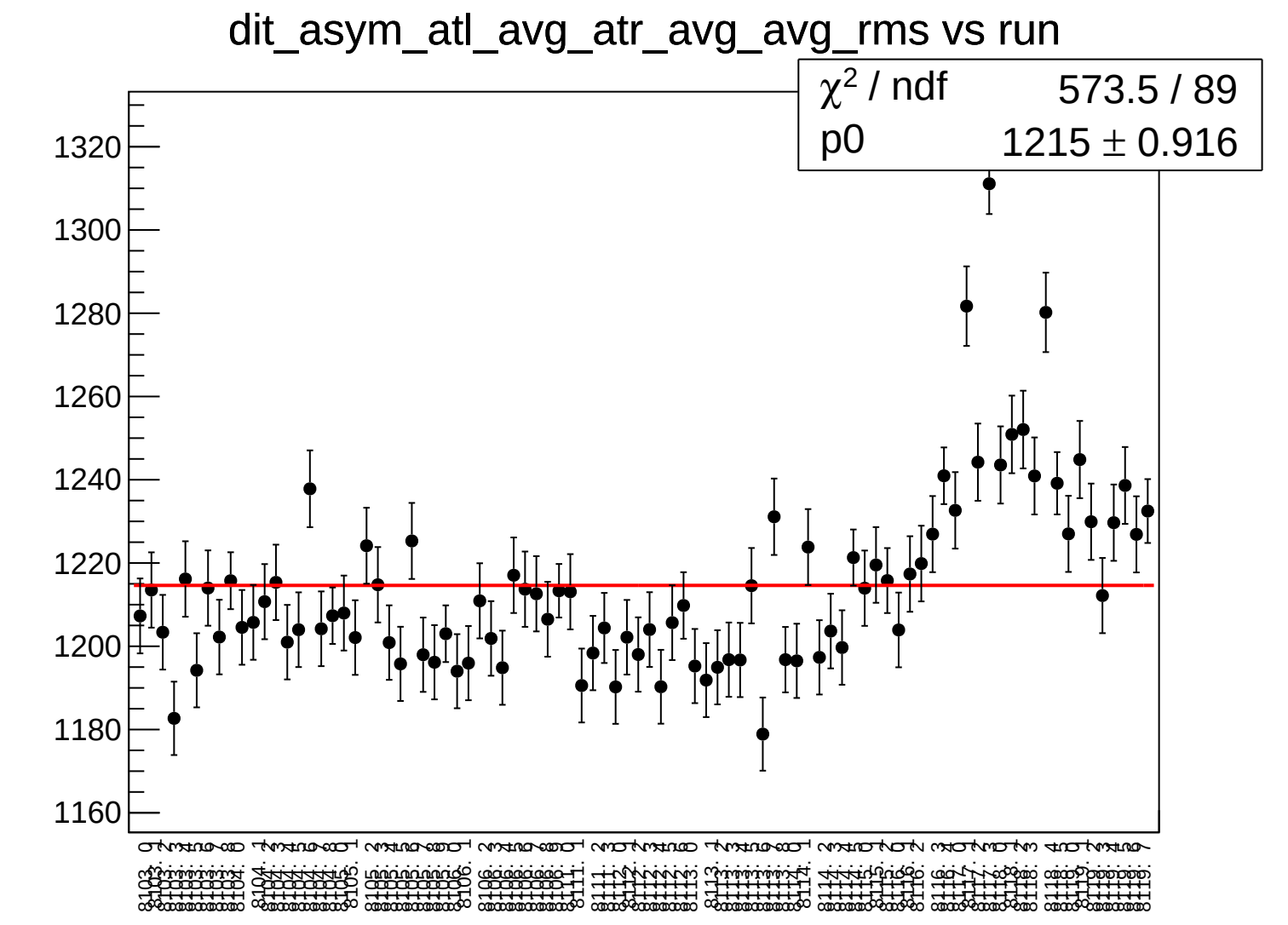

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.57 / 89
p0 5849 ± 4781
pull
Entries 90
Mean −1683
Std Dev 0

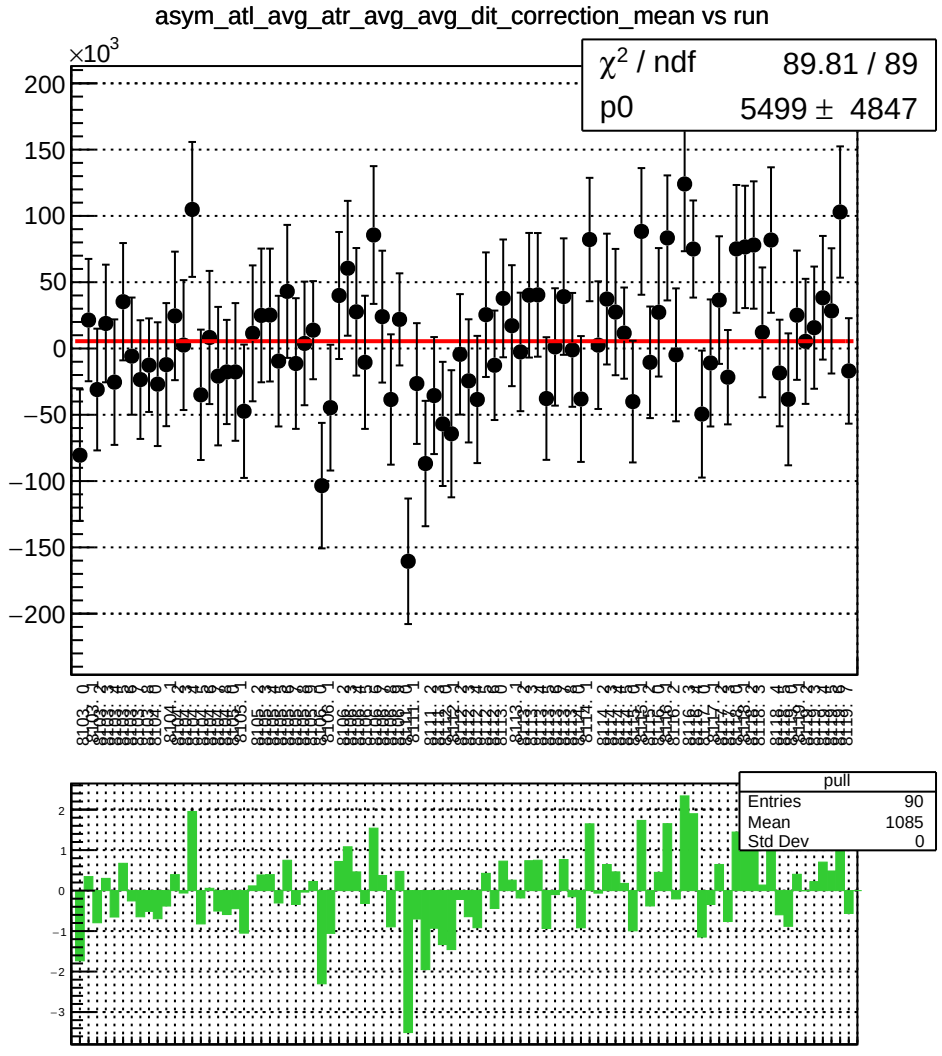

pull1D
Entries 90
Mean −0.004252
Std Dev 0.9976

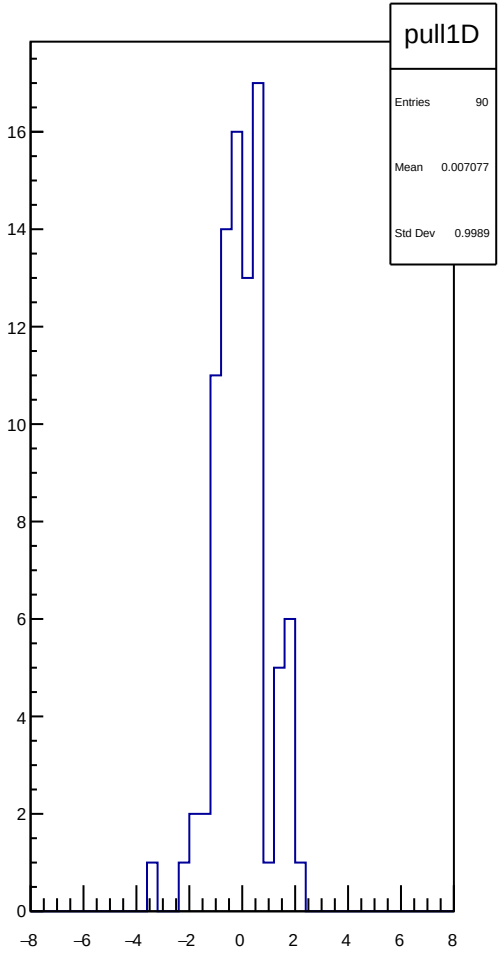

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4809 / 89
p0 4478 ± 3.381
5000
4800
4600
4400
4200
4000

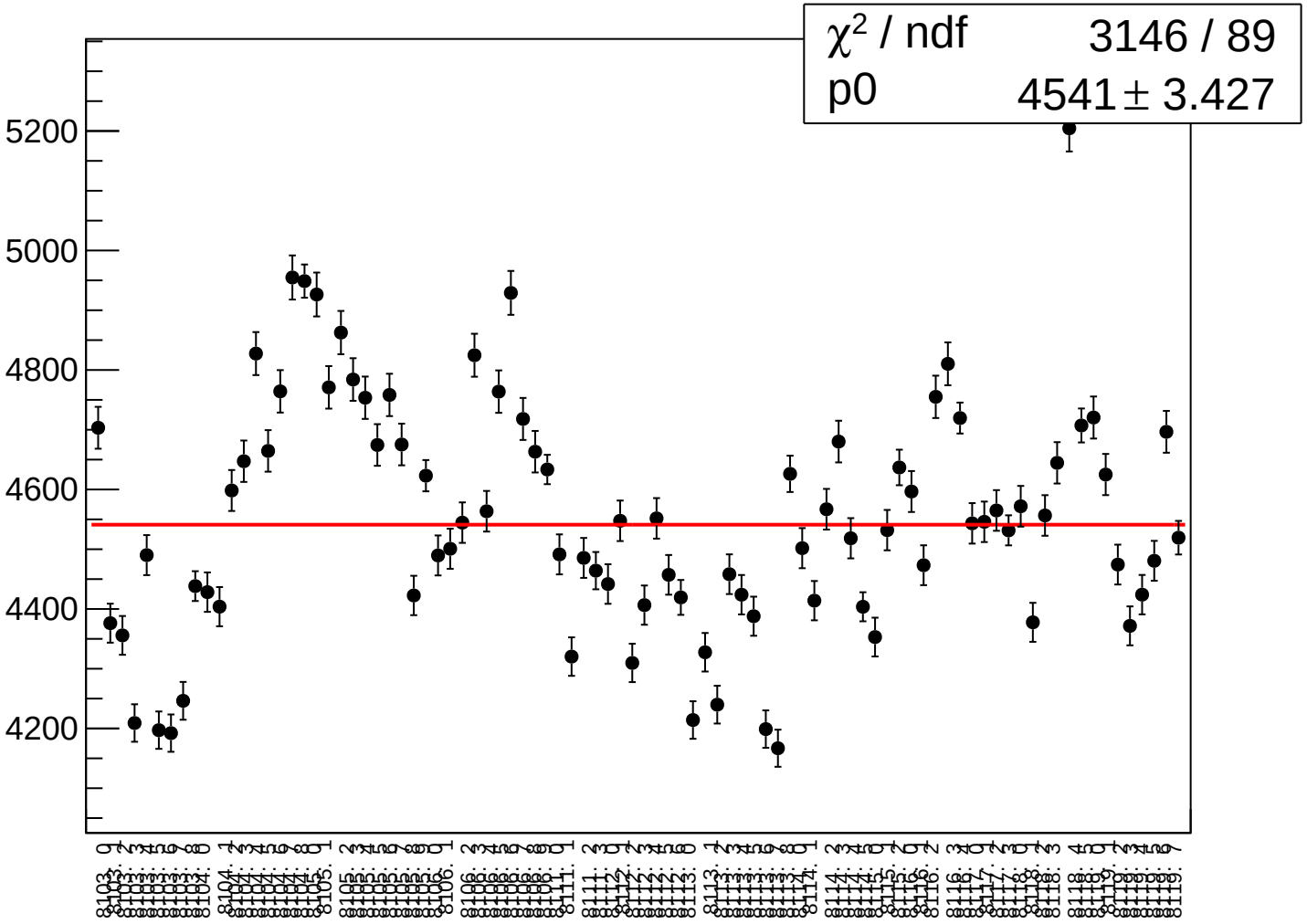

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.64 / 89
p0 3313 ± 1295
pull
Entries 90
Mean 62.81
Std Dev 53.14

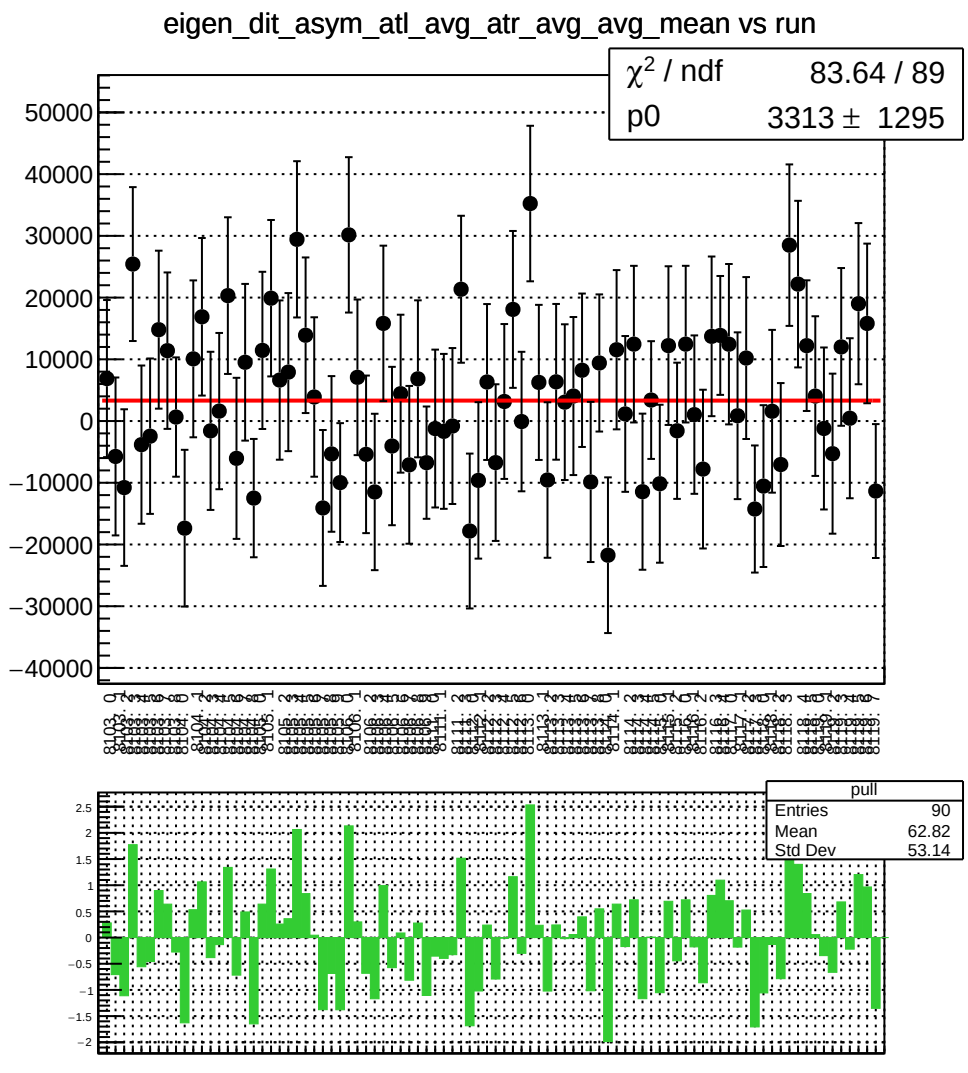

pull1D
Entries 90
Mean 0.01756
Std Dev 0.9638

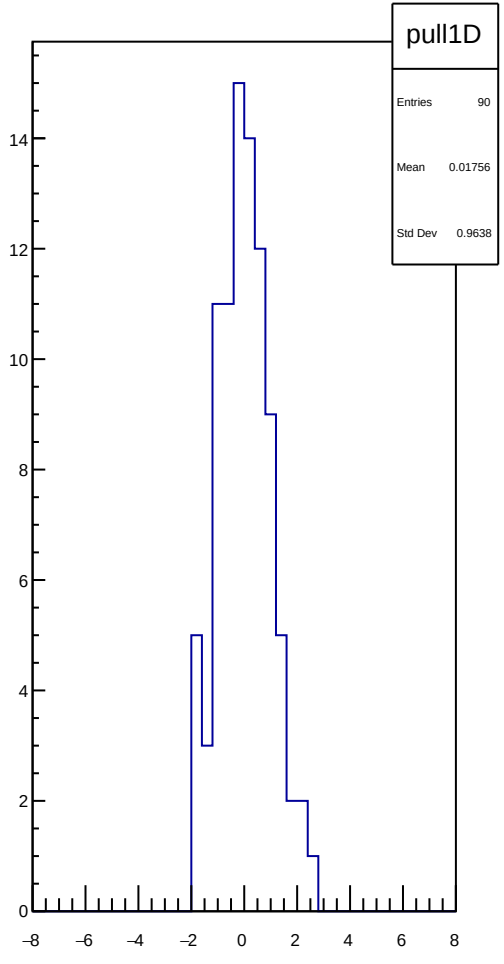

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 573.5 / 89
p0 1215 ± 0.916
1320
1300
1280
1260
1240
1220
1200
1180
1160

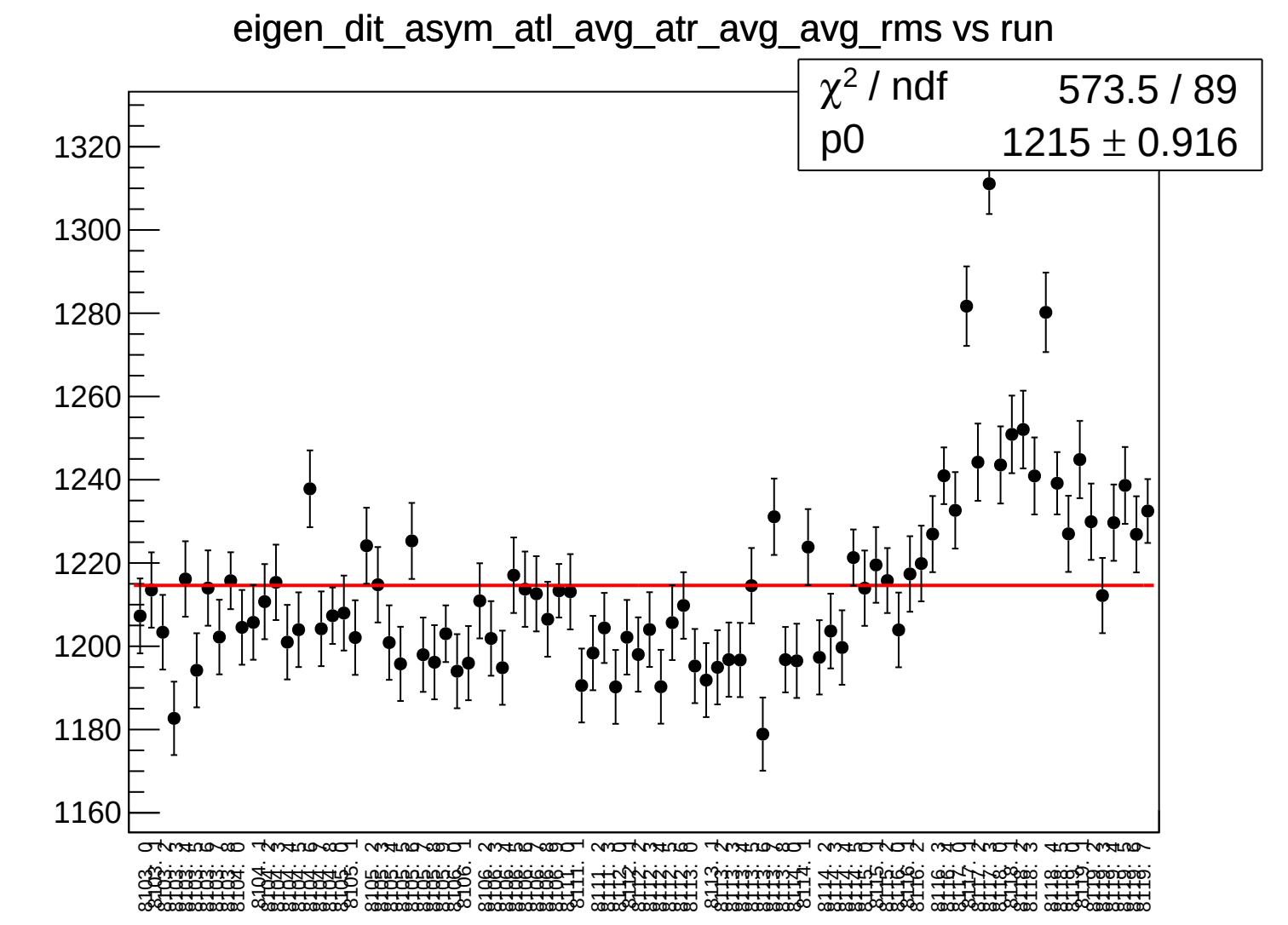

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.81 / 89
p0 5499 ± 4847
pull
Entries 90
Mean 1085
Std Dev 0

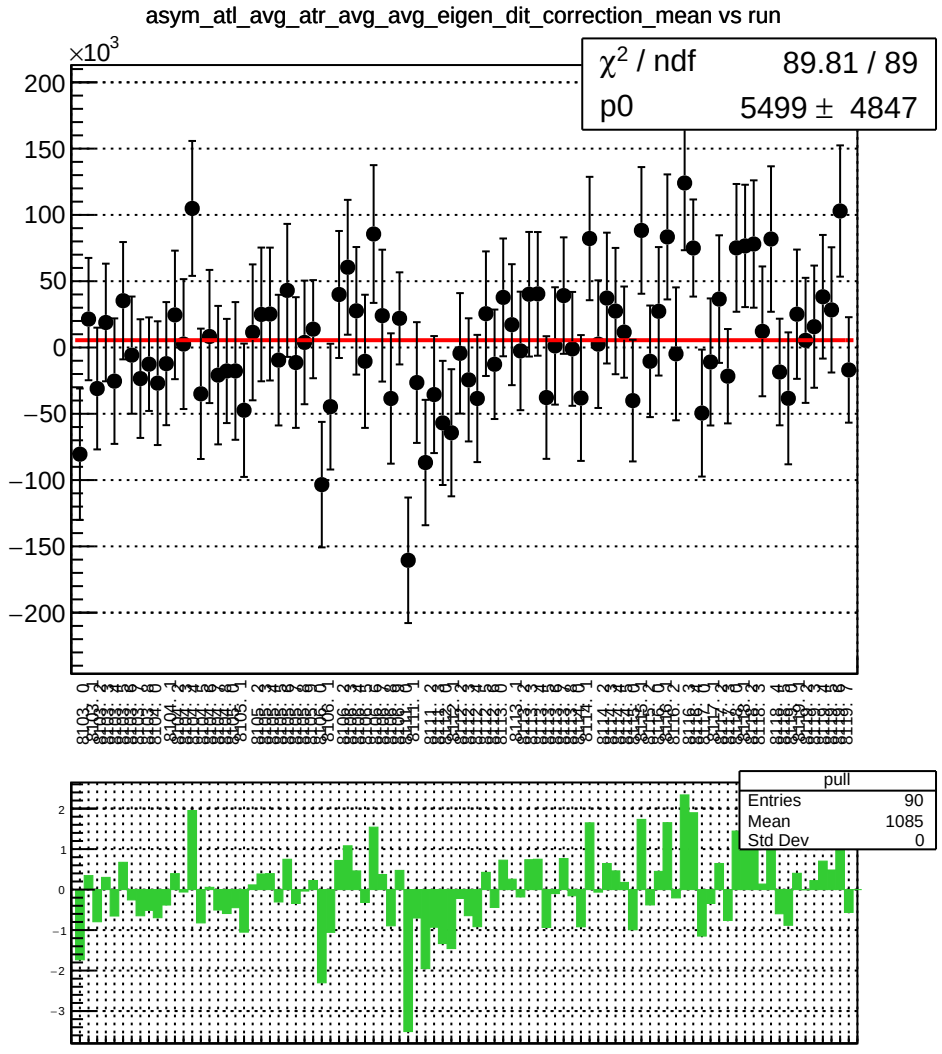

pull1D
Entries 90
Mean 0.007077
Std Dev 0.9989

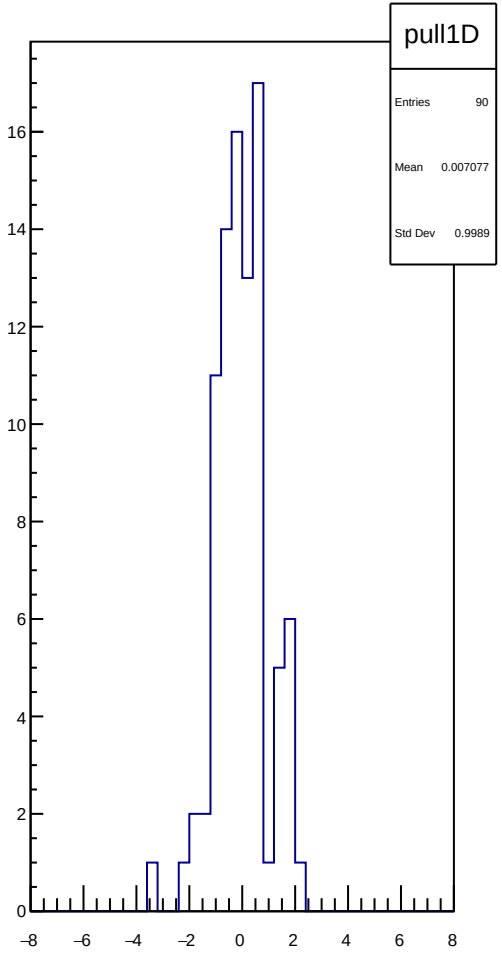

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 3146 / 89
p0 4541 ± 3.427
5200
5000
4800
4600
4400
4200

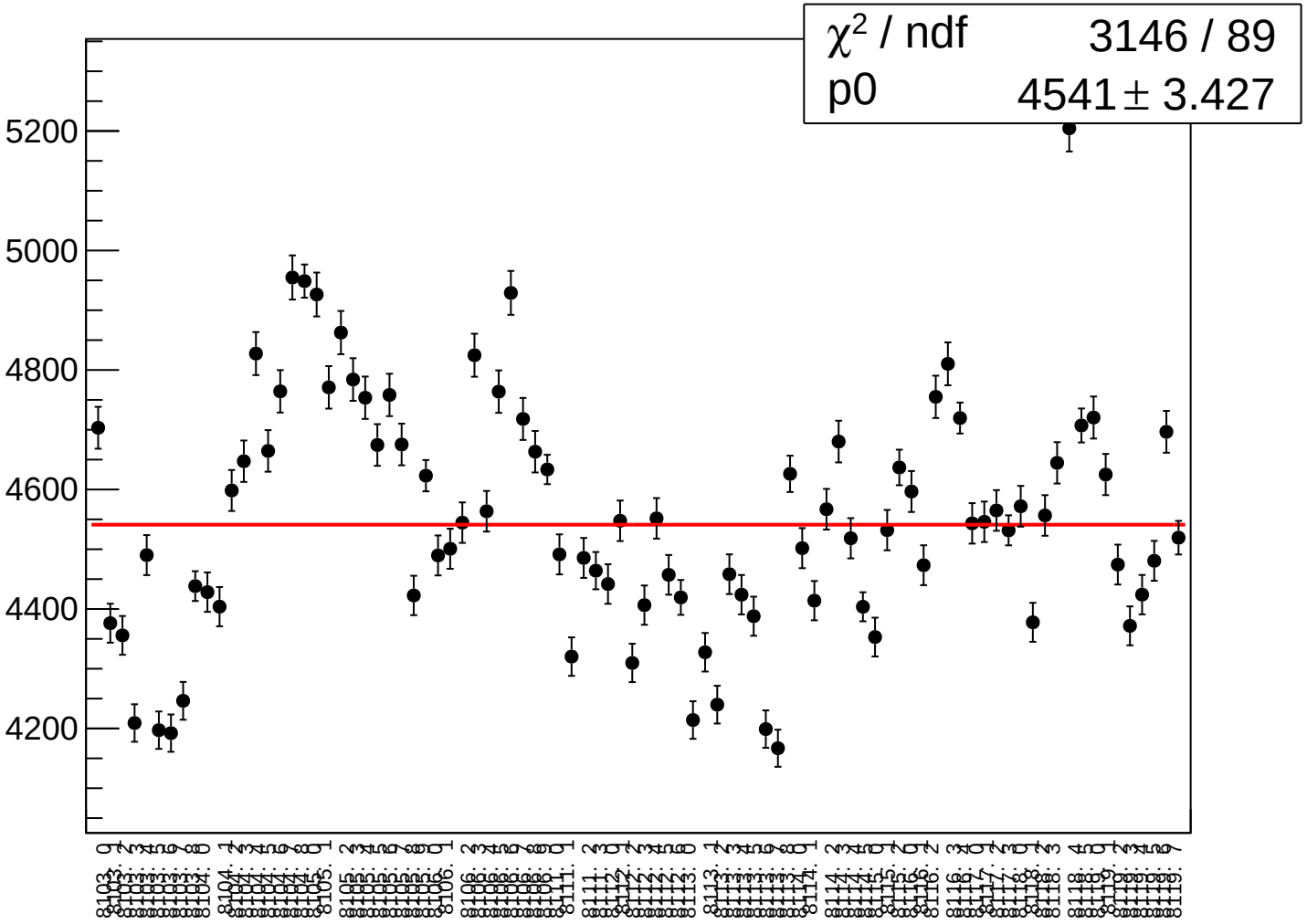

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.64 / 89
p0 3313 ± 1295
pull
Entries 90
Mean 62.82
Std Dev 53.14

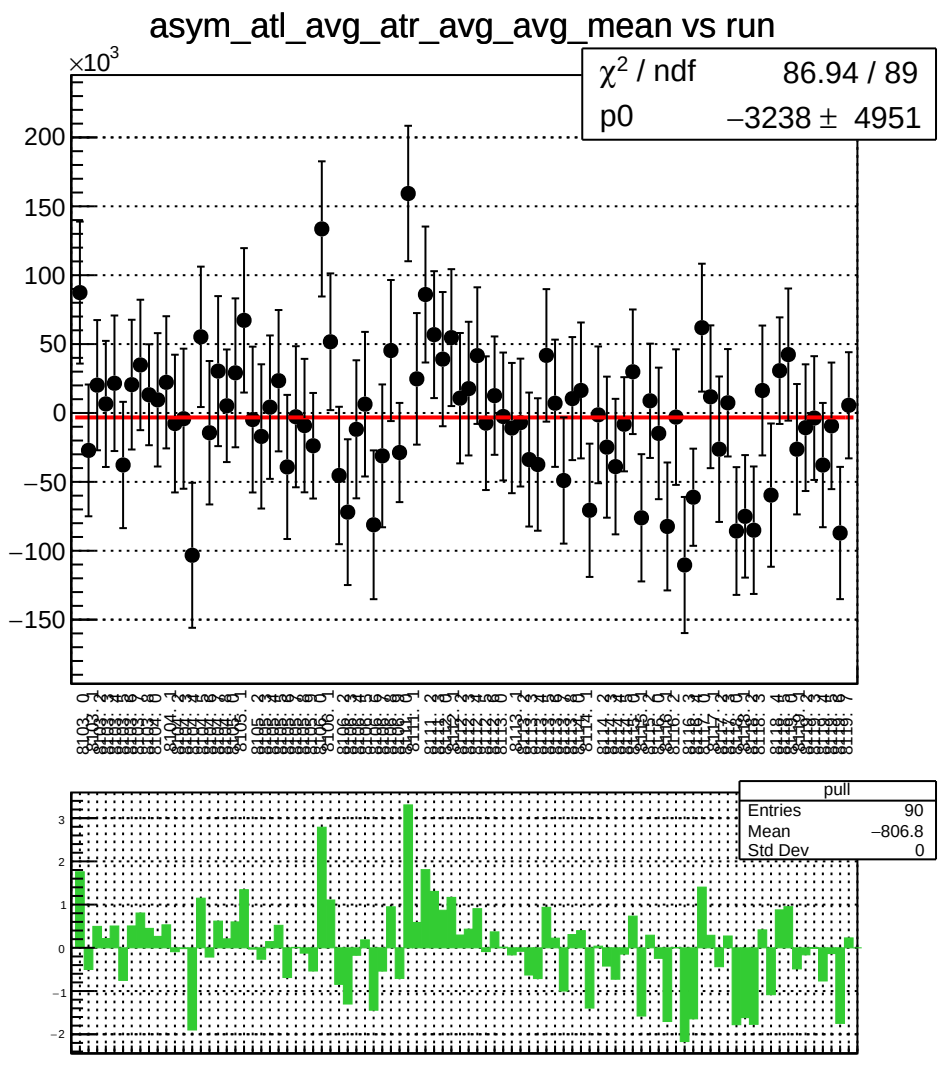

pull1D
Entries 90
Mean 0.01756
Std Dev 0.9638

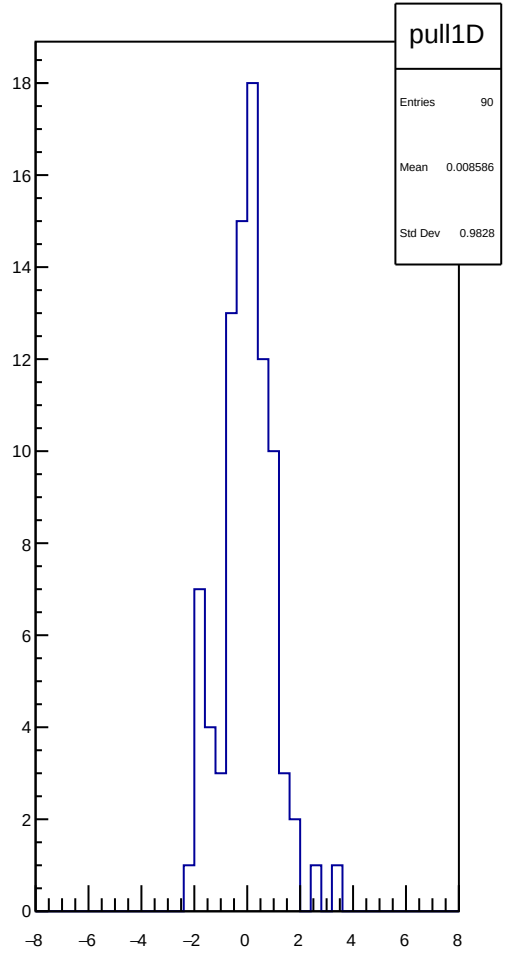

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 573.5 / 89
p0 1215 ± 0.916
1320
1300
1280
1260
1240
1220
1200
1180
1160

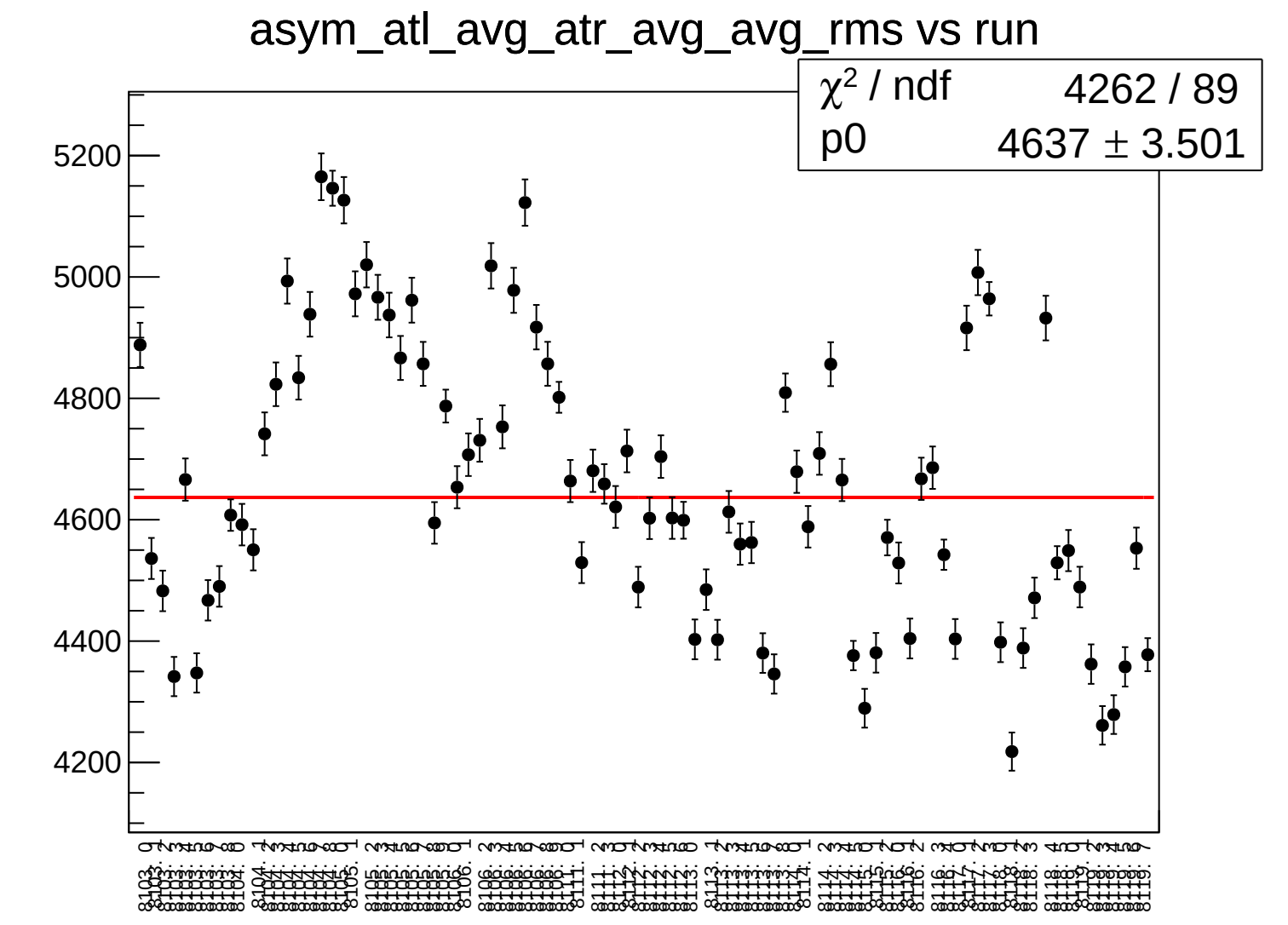

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 89.81 / 89
p0 5499 ± 4847
pull
Entries 90
Mean 1085
Std Dev 0

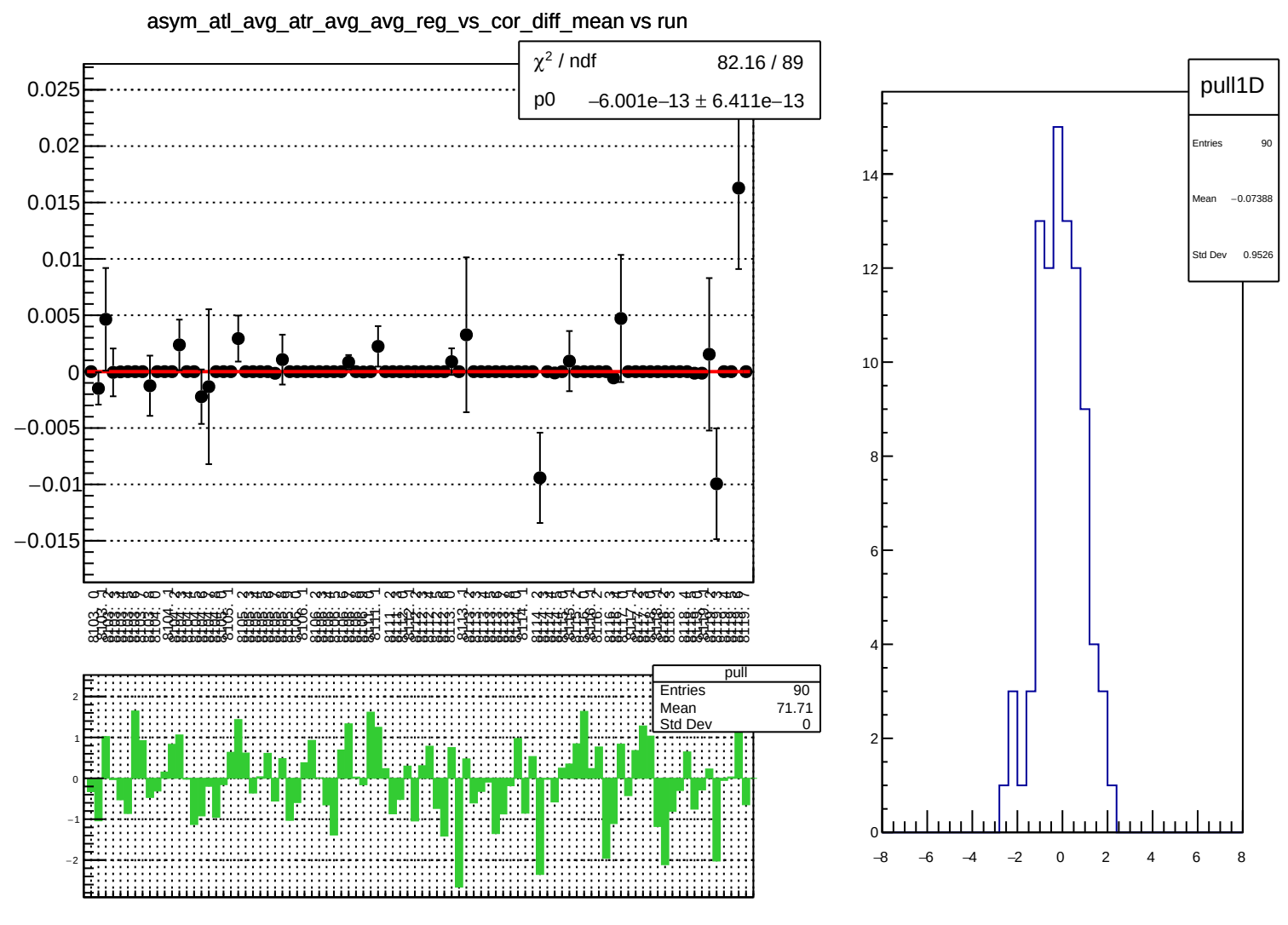

pull1D
Entries 90
Mean 0.007077
Std Dev 0.9989

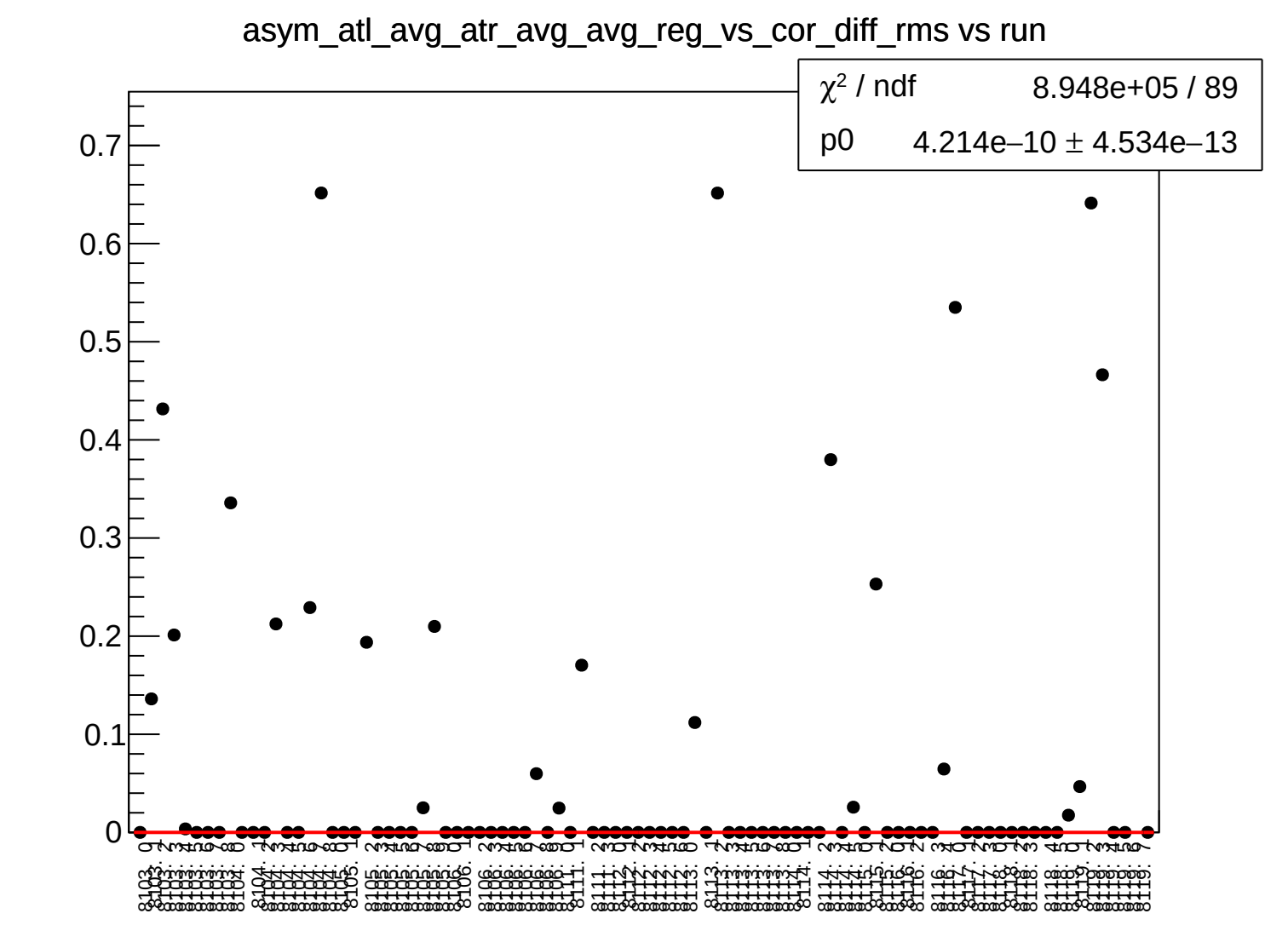

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3146 / 89
p0 4541 ± 3.427
5200
5000
4800
4600
4400
4200

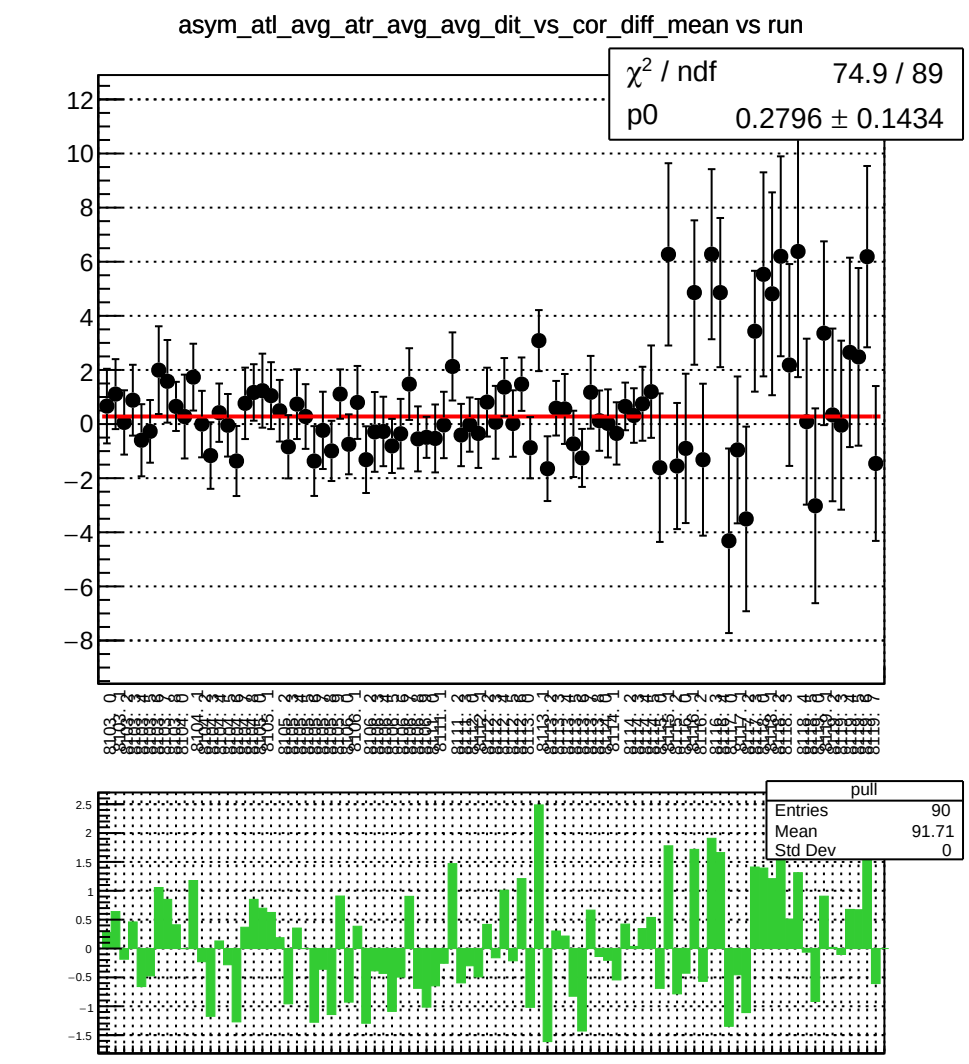

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 86.94 / 89
p0 −3238 ± 4951
200
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −806.8
Std Dev 0
3
2
1
0
−1
−2

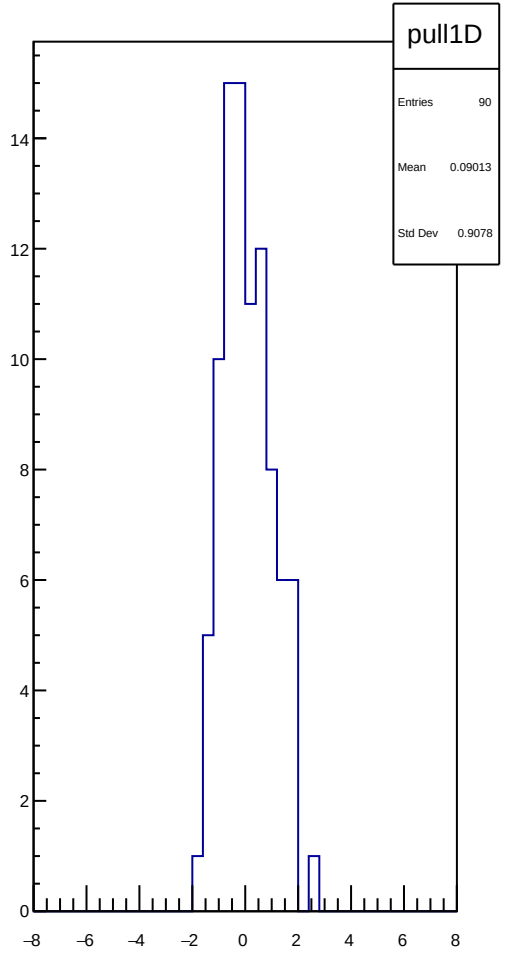

pull1D
Entries 90
Mean 0.008586
Std Dev 0.9828
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

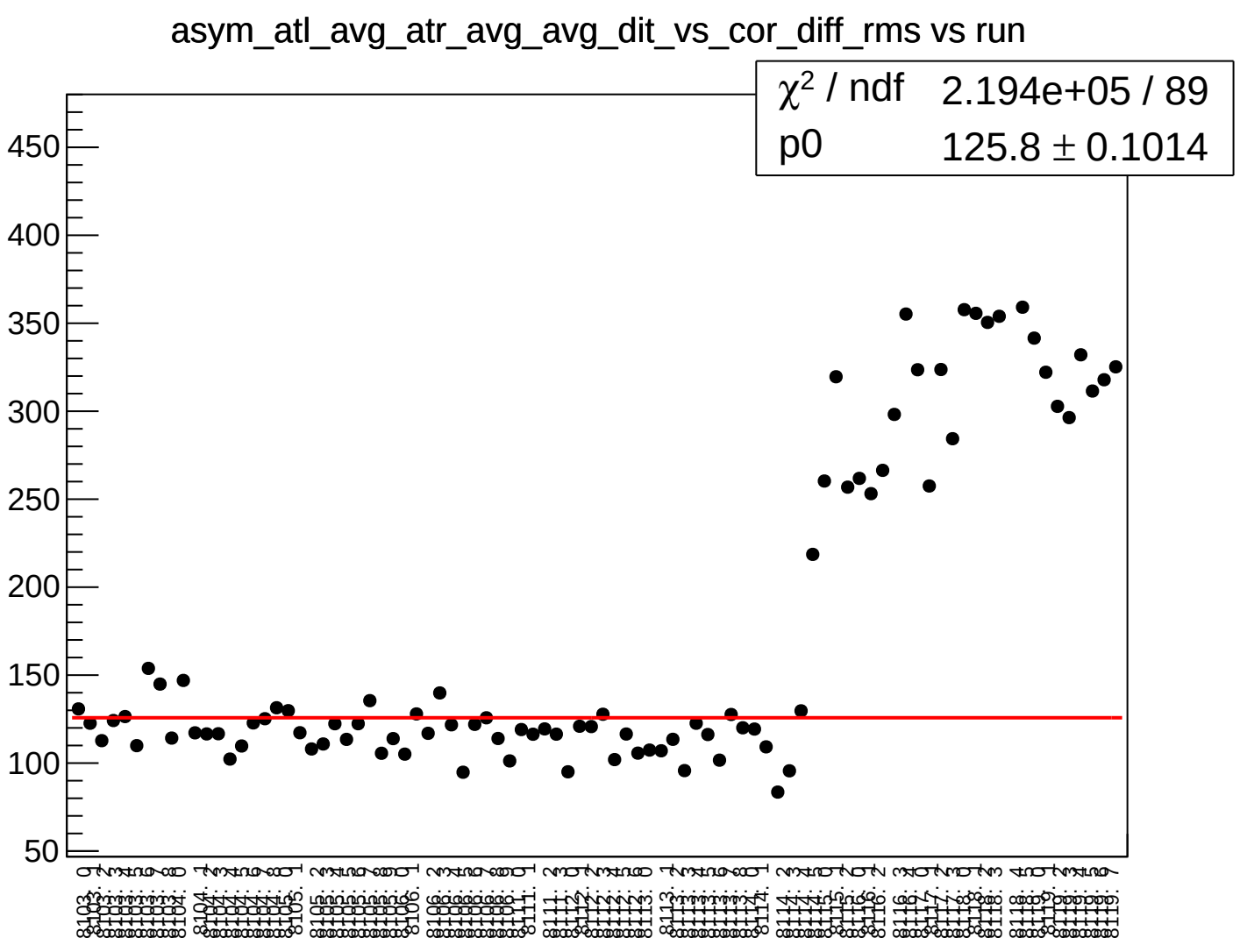

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4262 / 89
p0 4637 ± 3.501
5200
5000
4800
4600
4400
4200

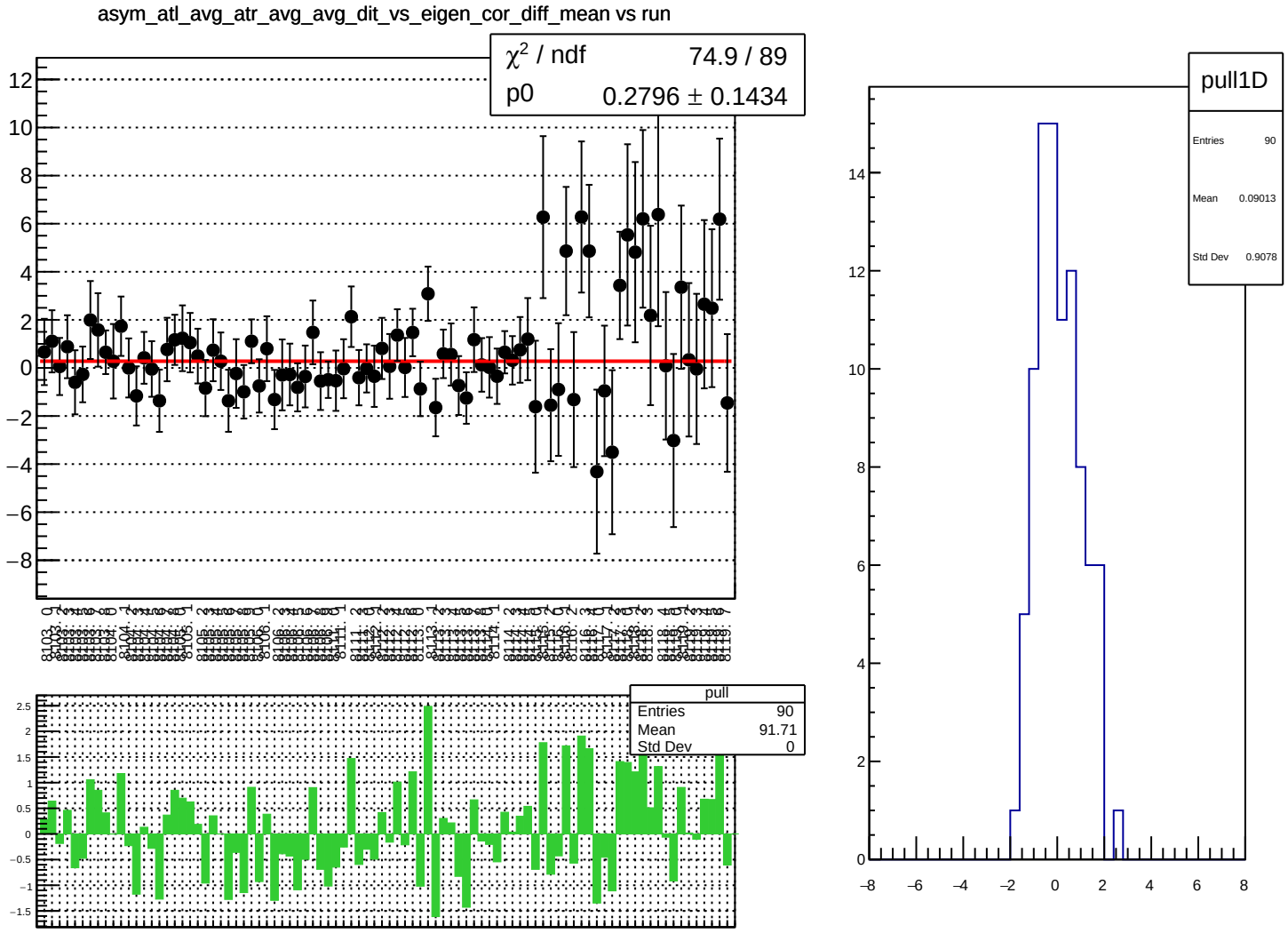

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.16 / 89
p0 −6.001e−13 ± 6.411e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 71.71
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.07388
Std Dev 0.9526
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

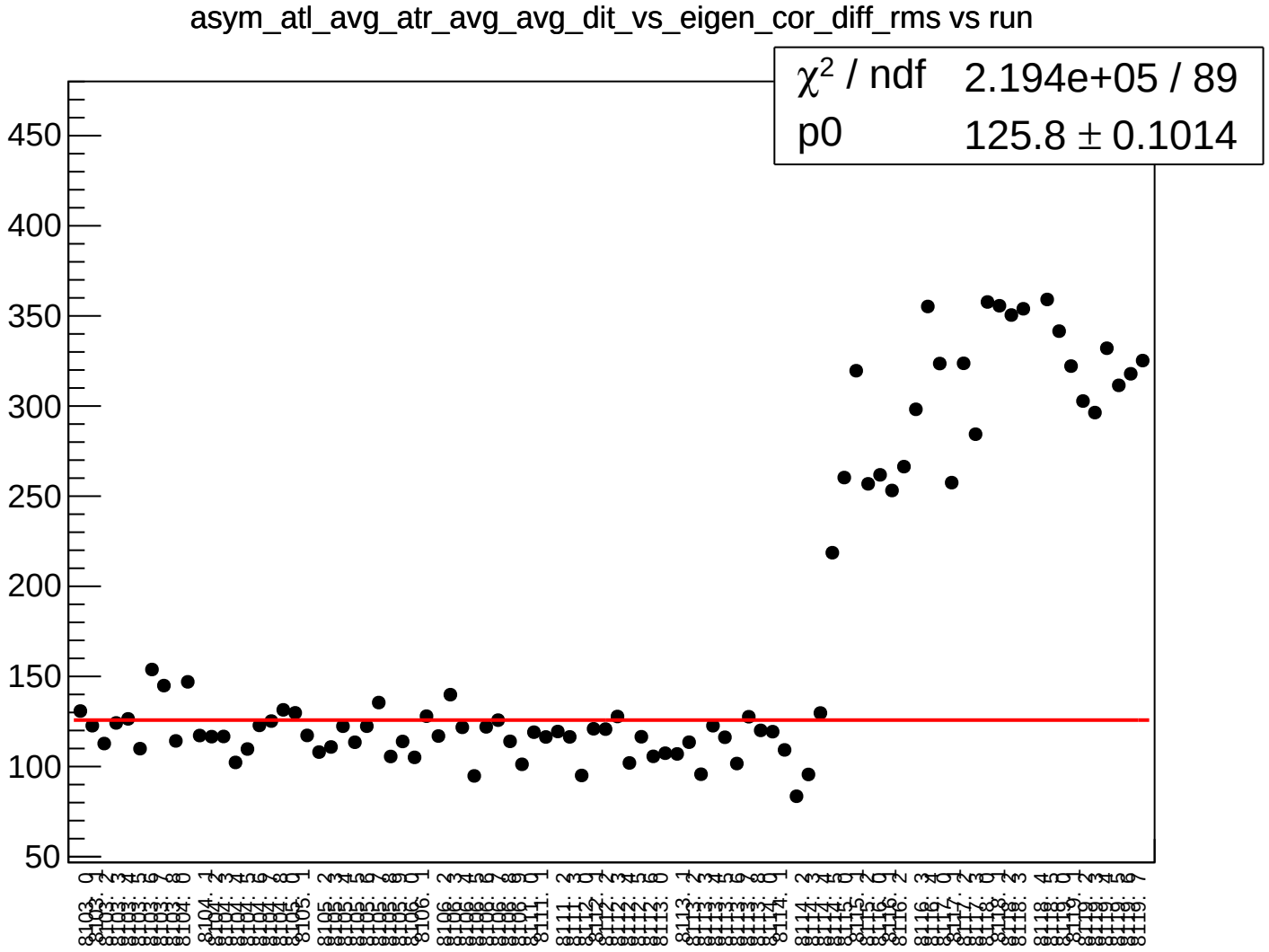

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.948e+05 / 89
p0 4.214e−10 ± 4.534e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

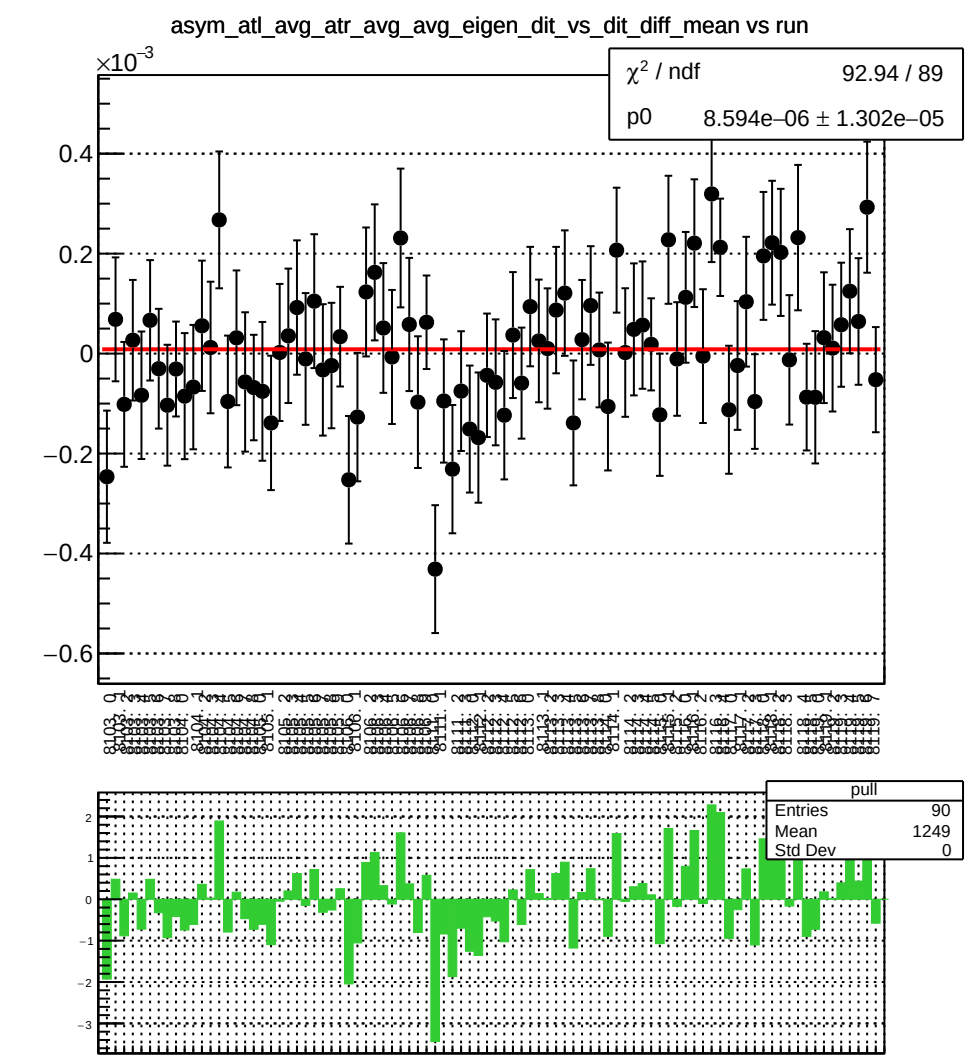

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.9 / 89
p0 0.2796 ± 0.1434
pull
Entries 90
Mean 91.71
Std Dev 0

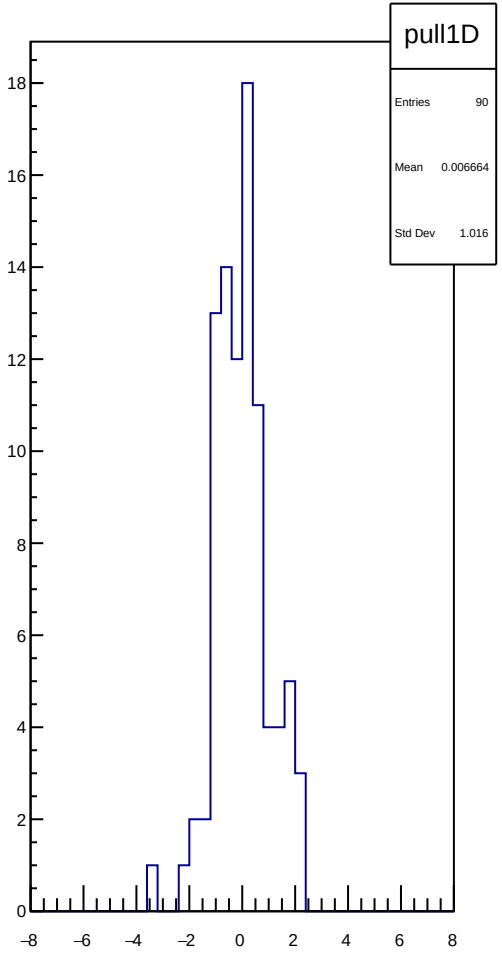

pull1D
Entries 90
Mean 0.09013
Std Dev 0.9078

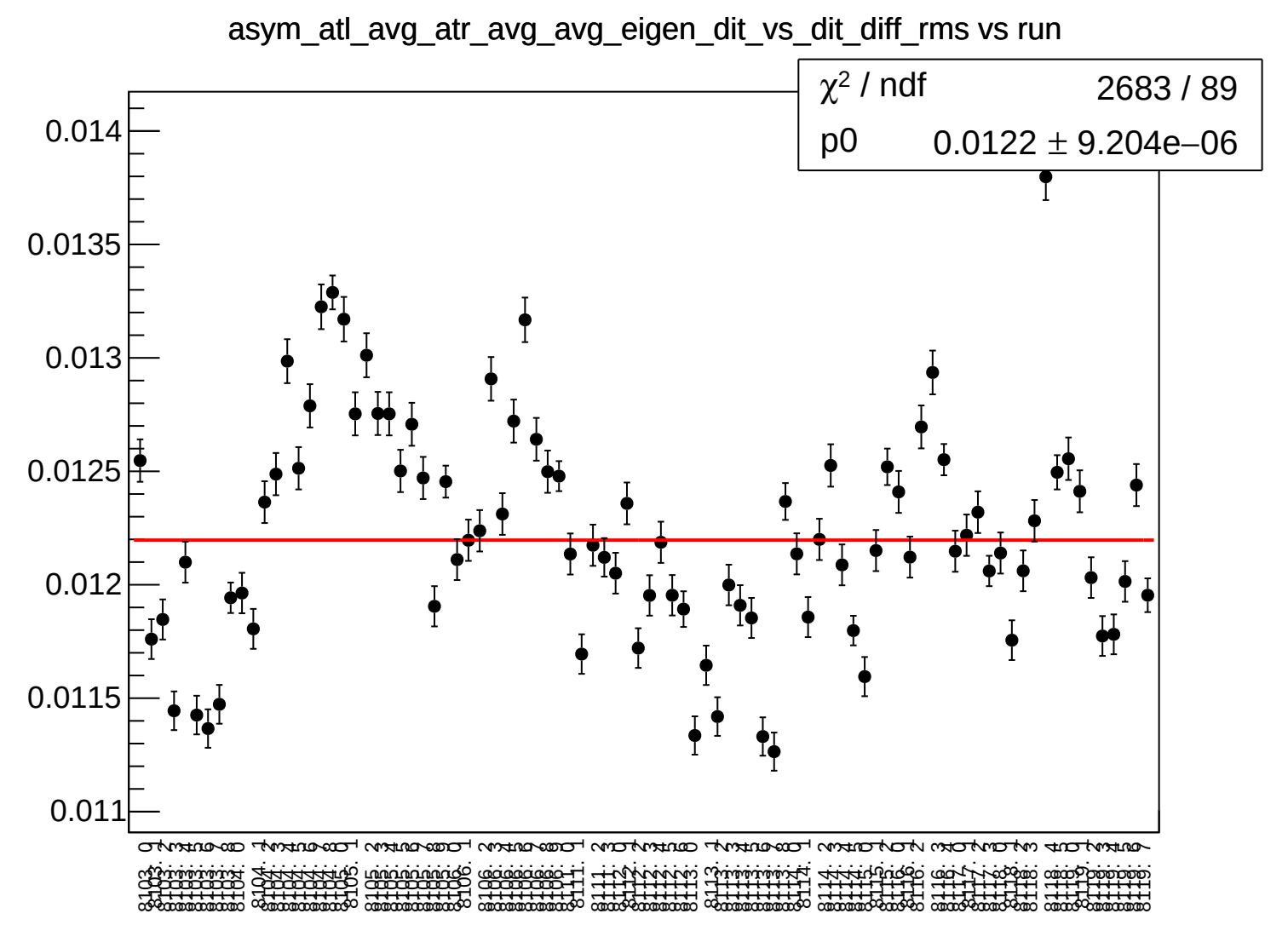

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.194e+05 / 89
p0 125.8 ± 0.1014
450
400
350
300
250
200
150
100
50

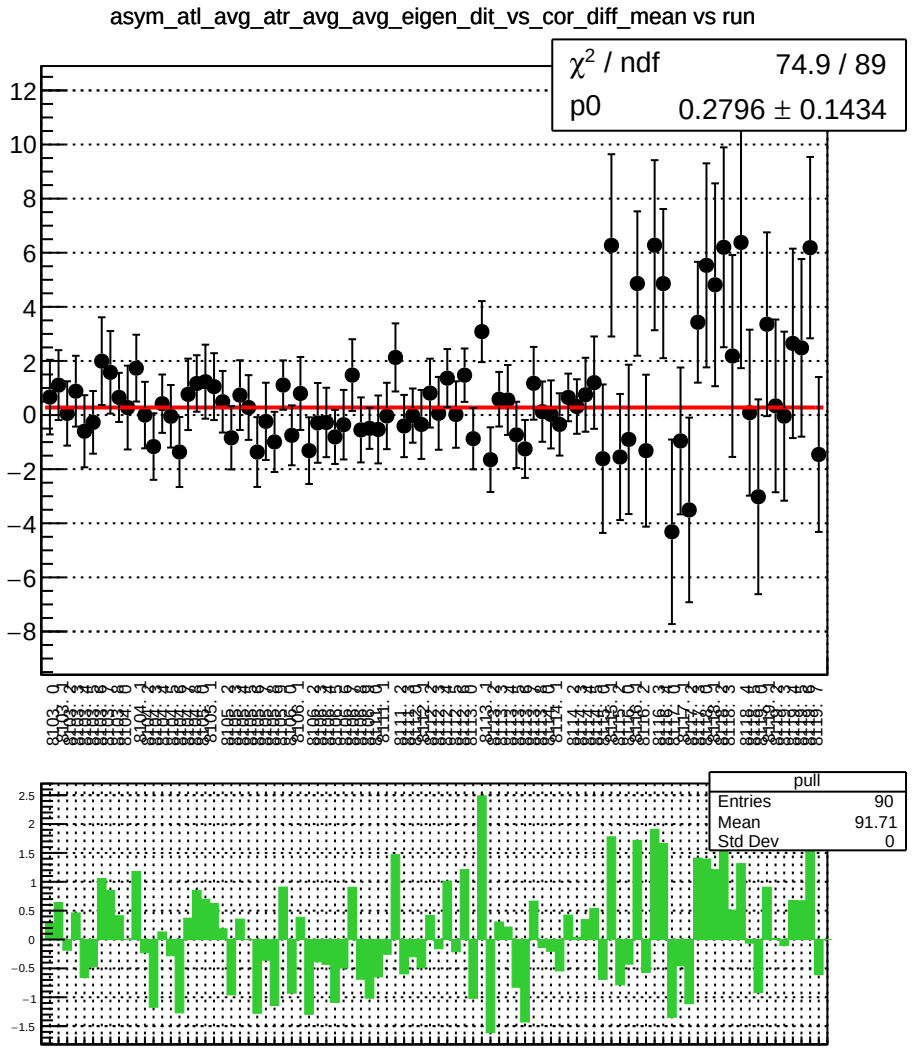

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.9 / 89
p0 0.2796 ± 0.1434
pull
Entries 90
Mean 91.71
Std Dev 0
pull1D
Entries 90
Mean 0.09013
Std Dev 0.9078

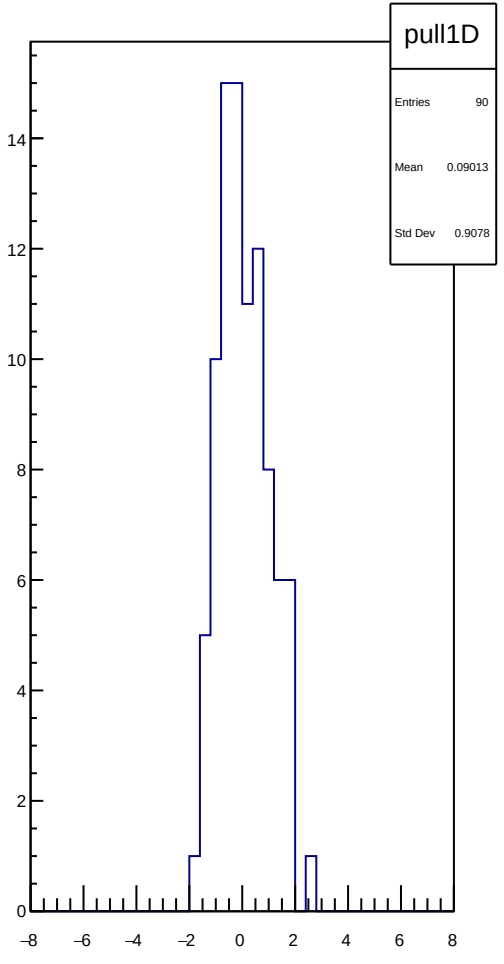

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.194e+05 / 89
p0 125.8 ± 0.1014
450
400
350
300
250
200
150
100
50

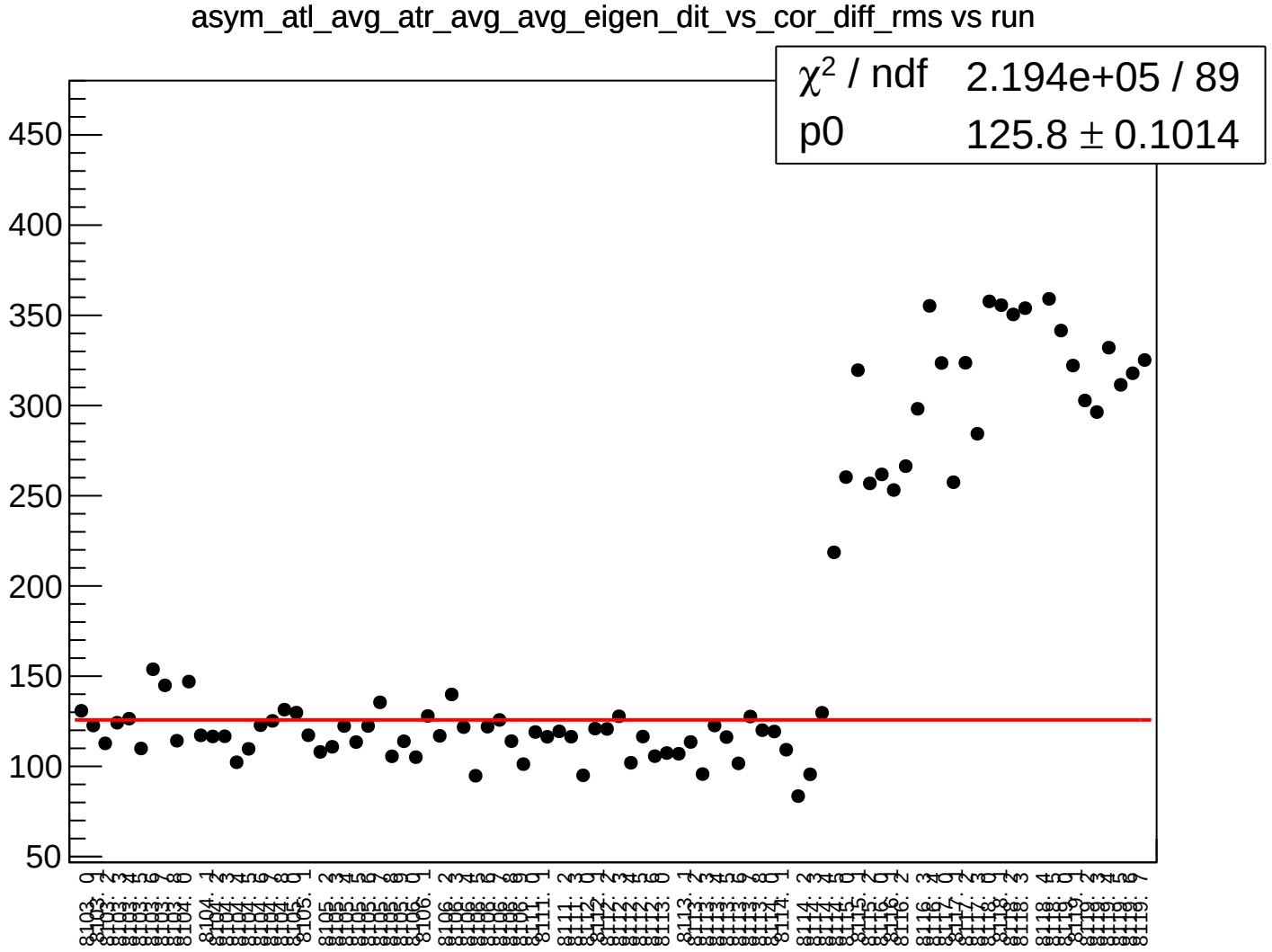

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.94 / 89
p0 8.594e−06 ± 1.302e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 90
Mean 1249
Std Dev 0
2
1
0
−1
−2
−3

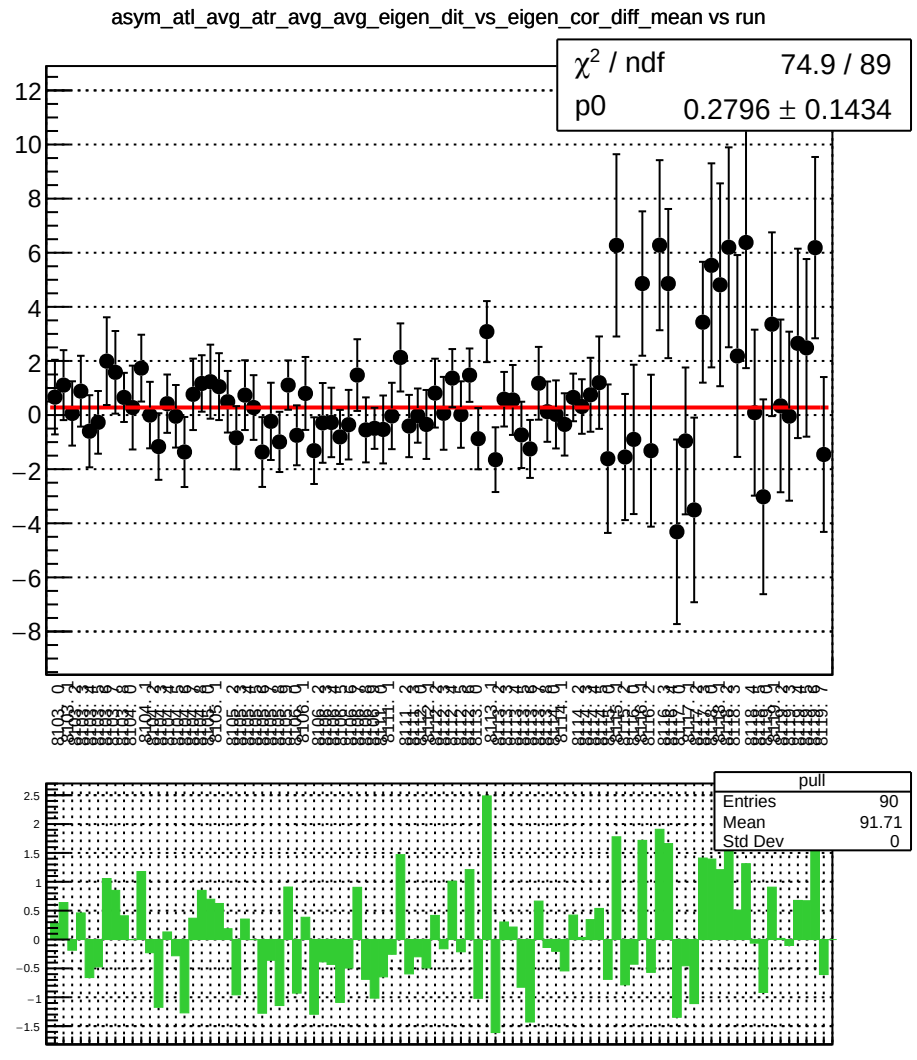

pull1D
Entries 90
Mean 0.006664
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

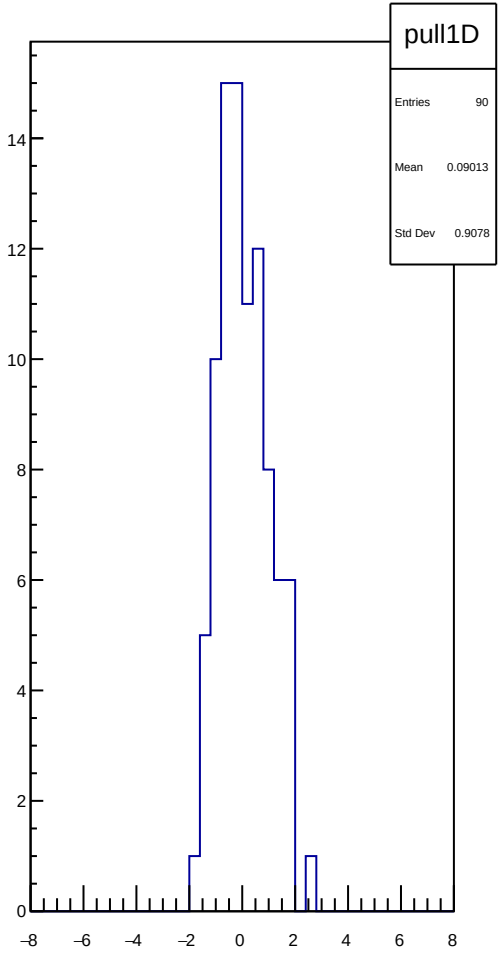

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2683 / 89
p0 0.0122 ± 9.204e−06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

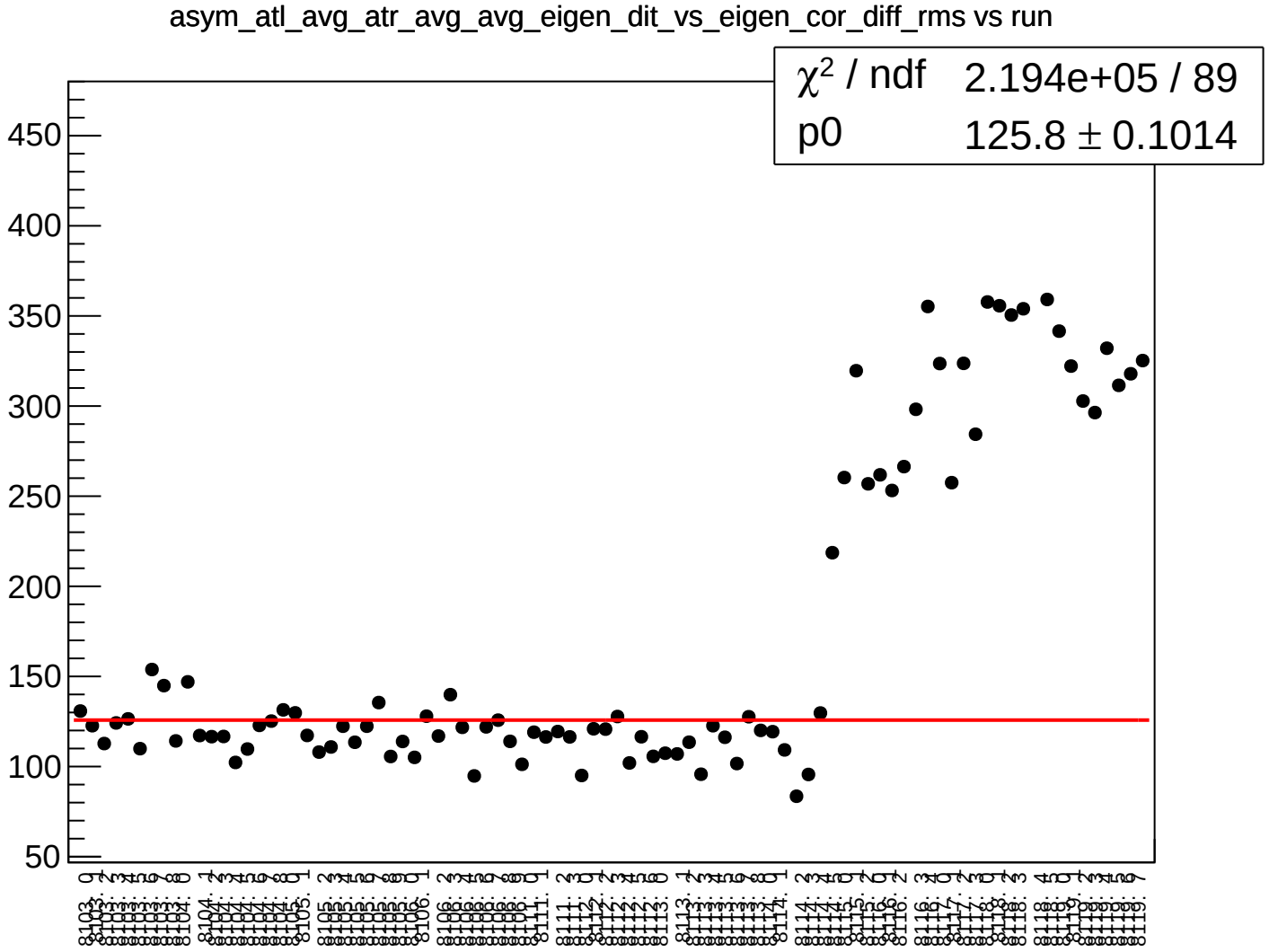

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.9 / 89
p0 0.2796 ± 0.1434
pull
Entries 90
Mean 91.71
Std Dev 0

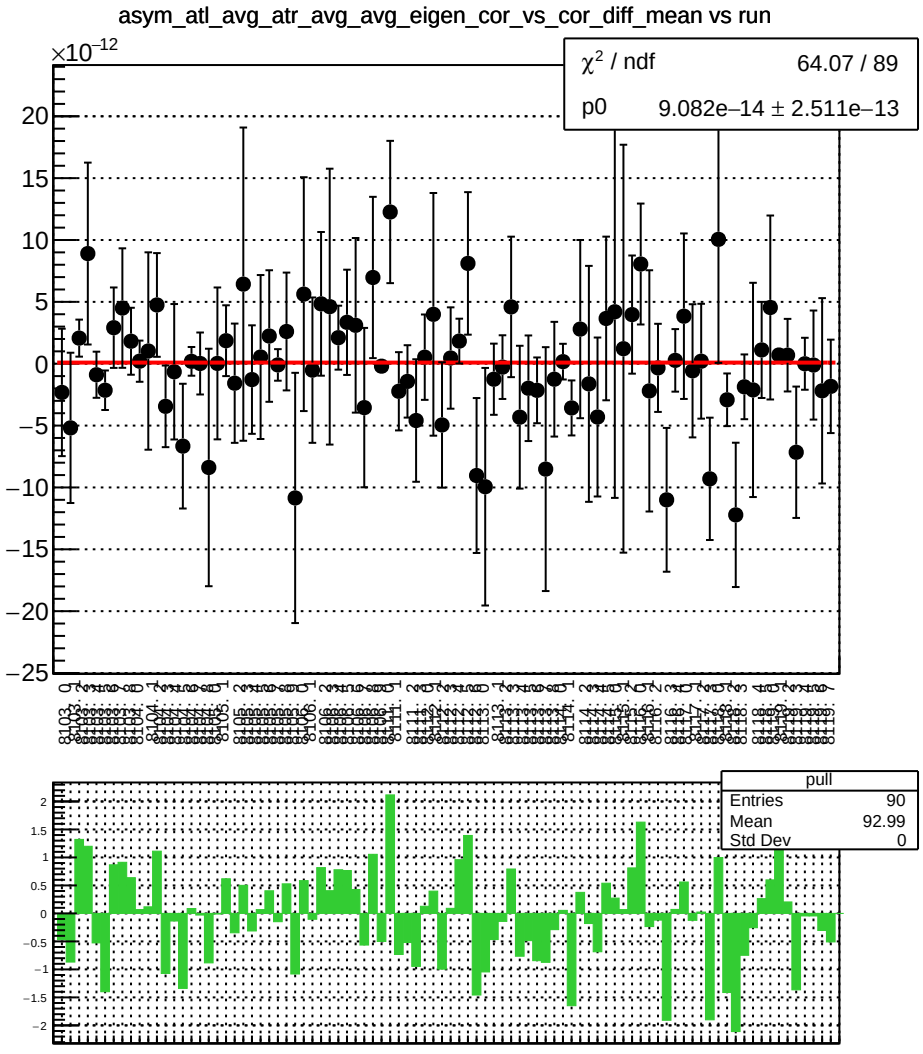

pull1D
Entries 90
Mean 0.09013
Std Dev 0.9078

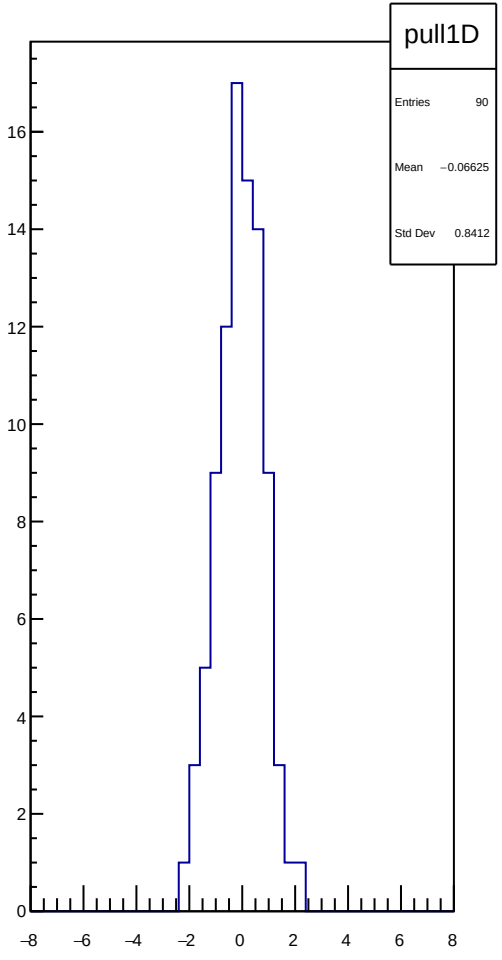

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.194e+05 / 89
p0 125.8 ± 0.1014
450
400
350
300
250
200
150
100
50

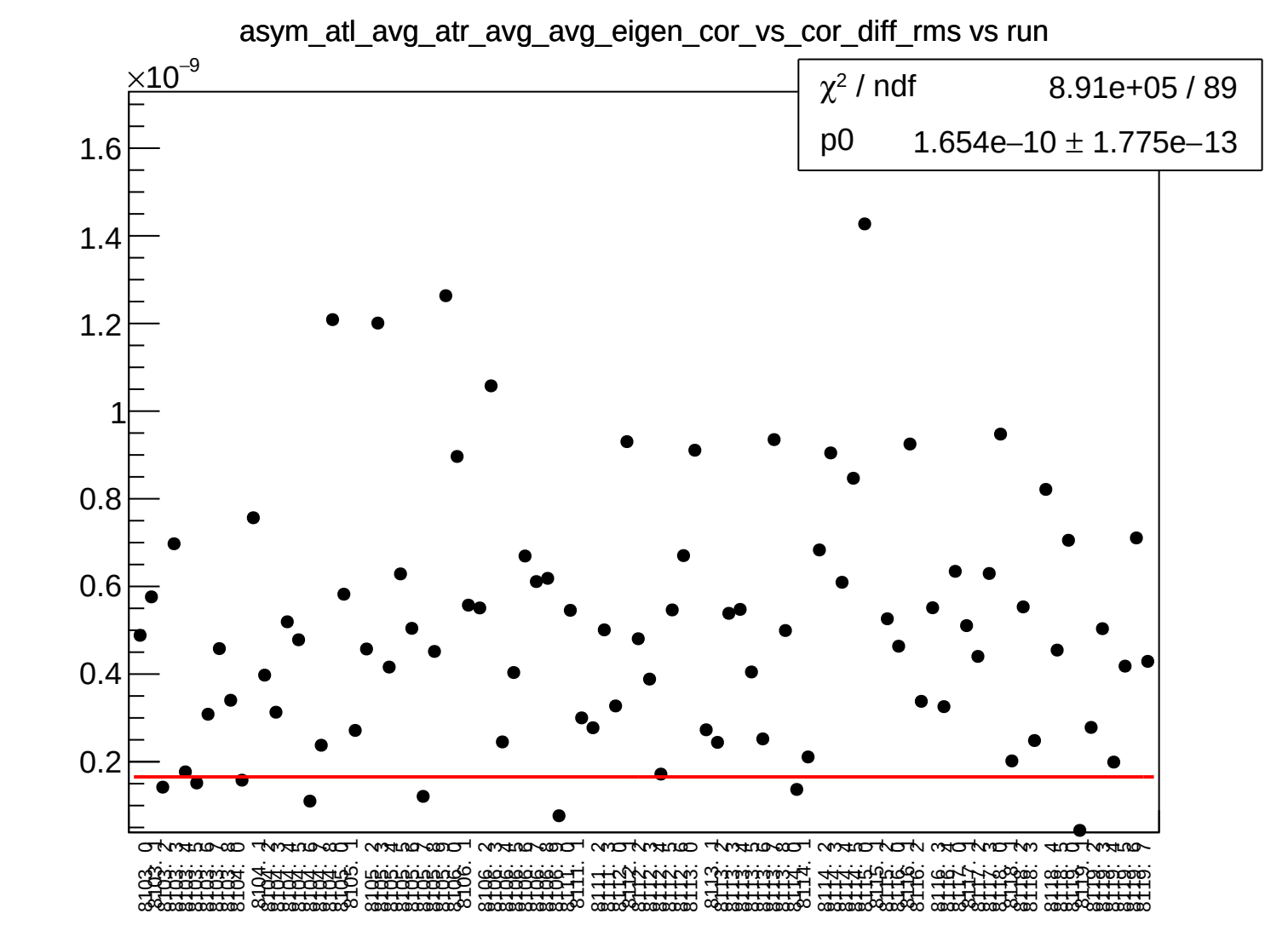

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.9 / 89
p0 0.2796 ± 0.1434
pull
Entries 90
Mean 91.71
Std Dev 0

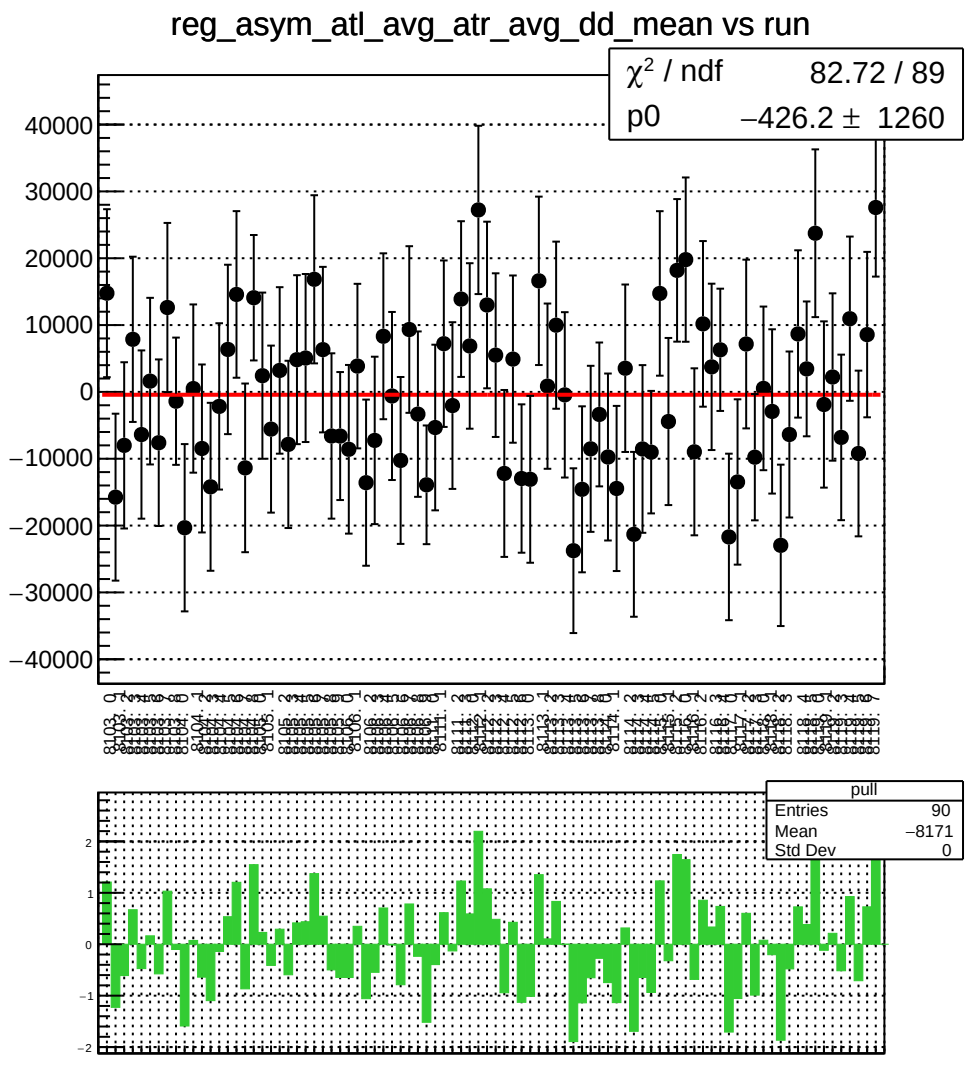

pull1D
Entries 90
Mean 0.09013
Std Dev 0.9078

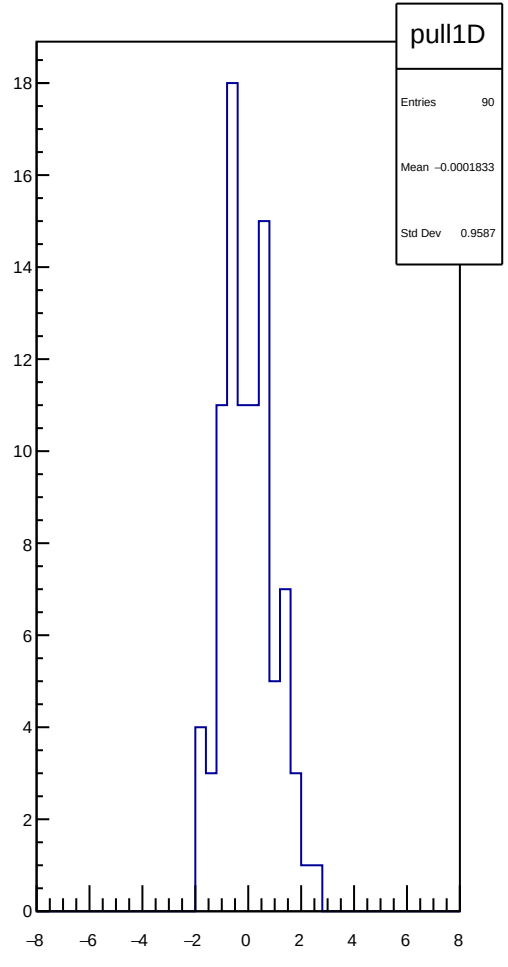

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.194e+05 / 89
p0 125.8 ± 0.1014
450
400
350
300
250
200
150
100
50

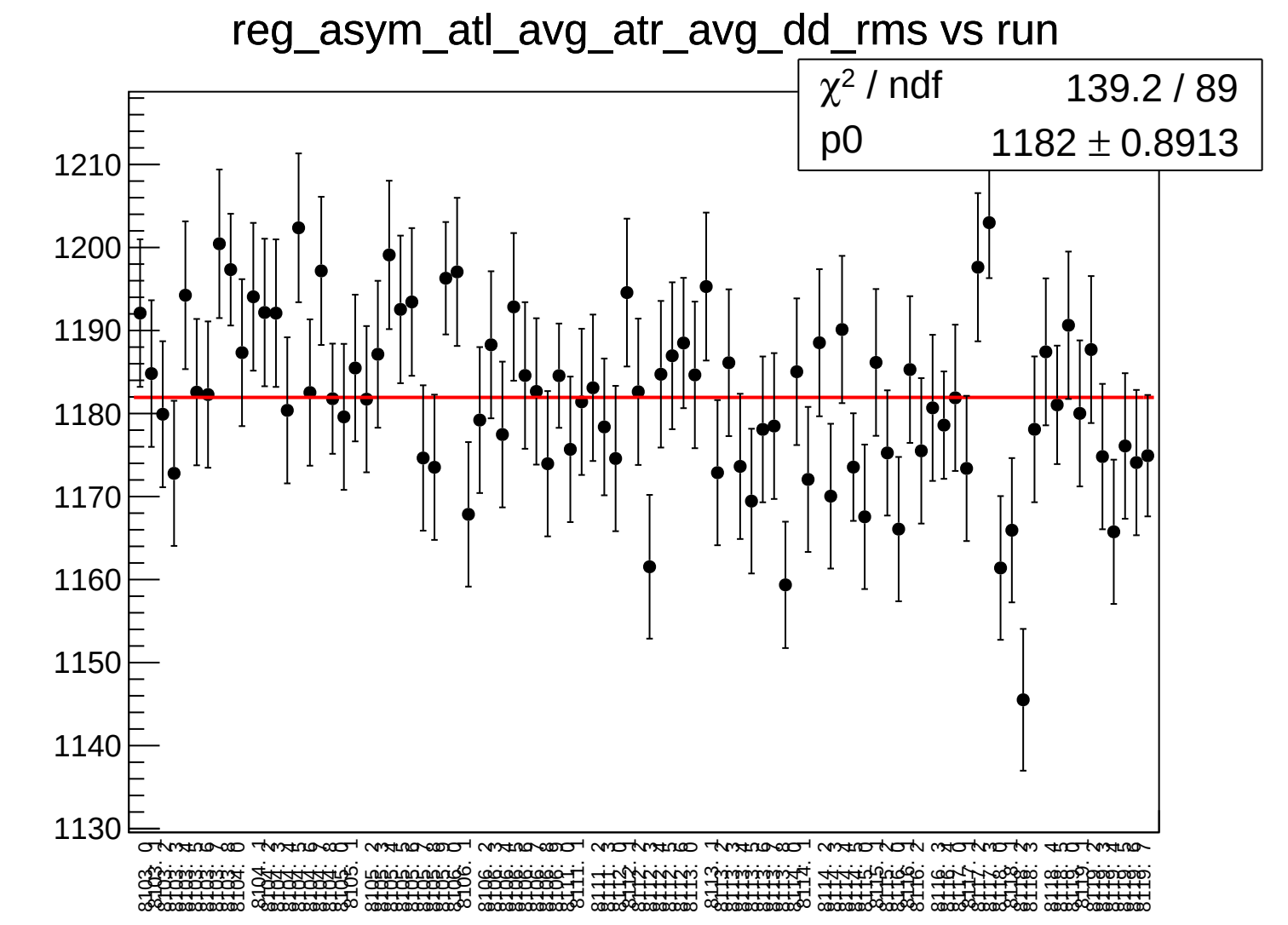

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.07 / 89
p0 9.082e−14 ± 2.511e−13
pull
Entries 90
Mean 92.99
Std Dev 0

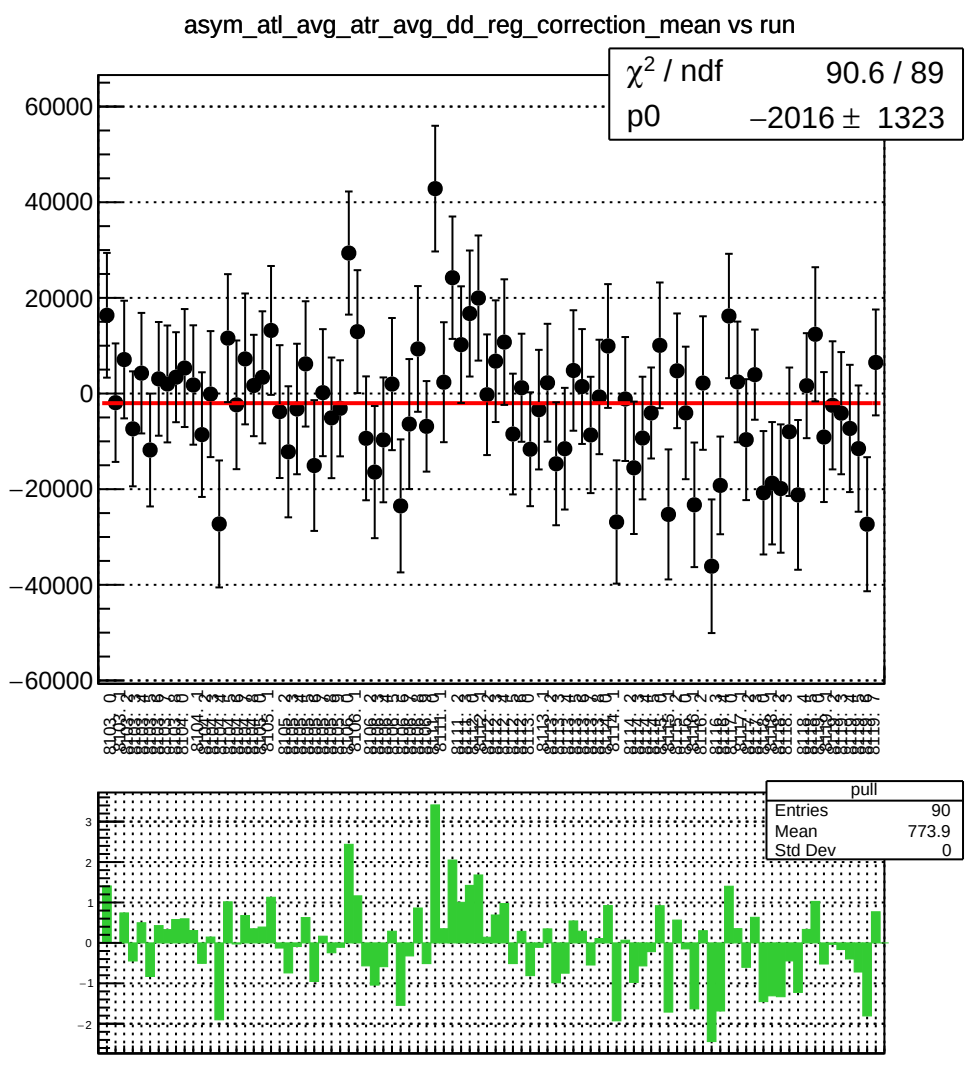

pull1D
Entries 90
Mean −0.06625
Std Dev 0.8412

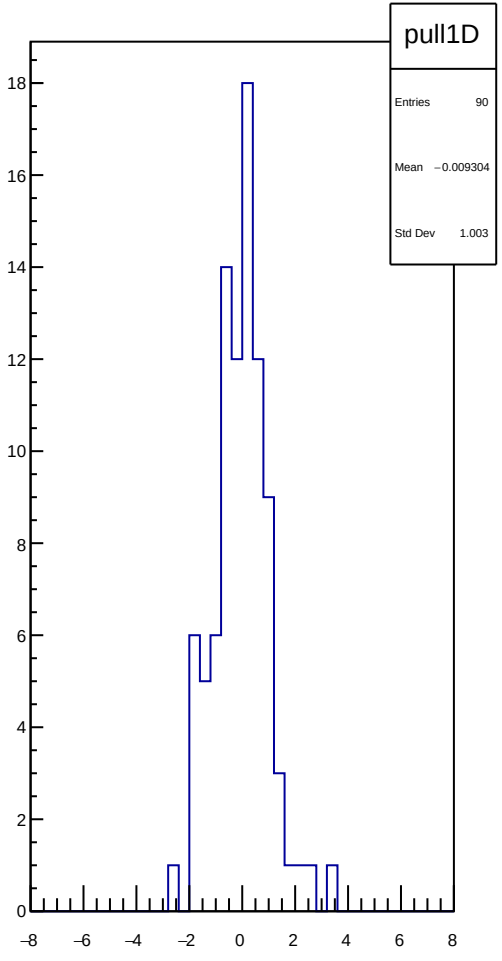

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.91e+05 / 89
p0 1.654e−10 ± 1.775e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

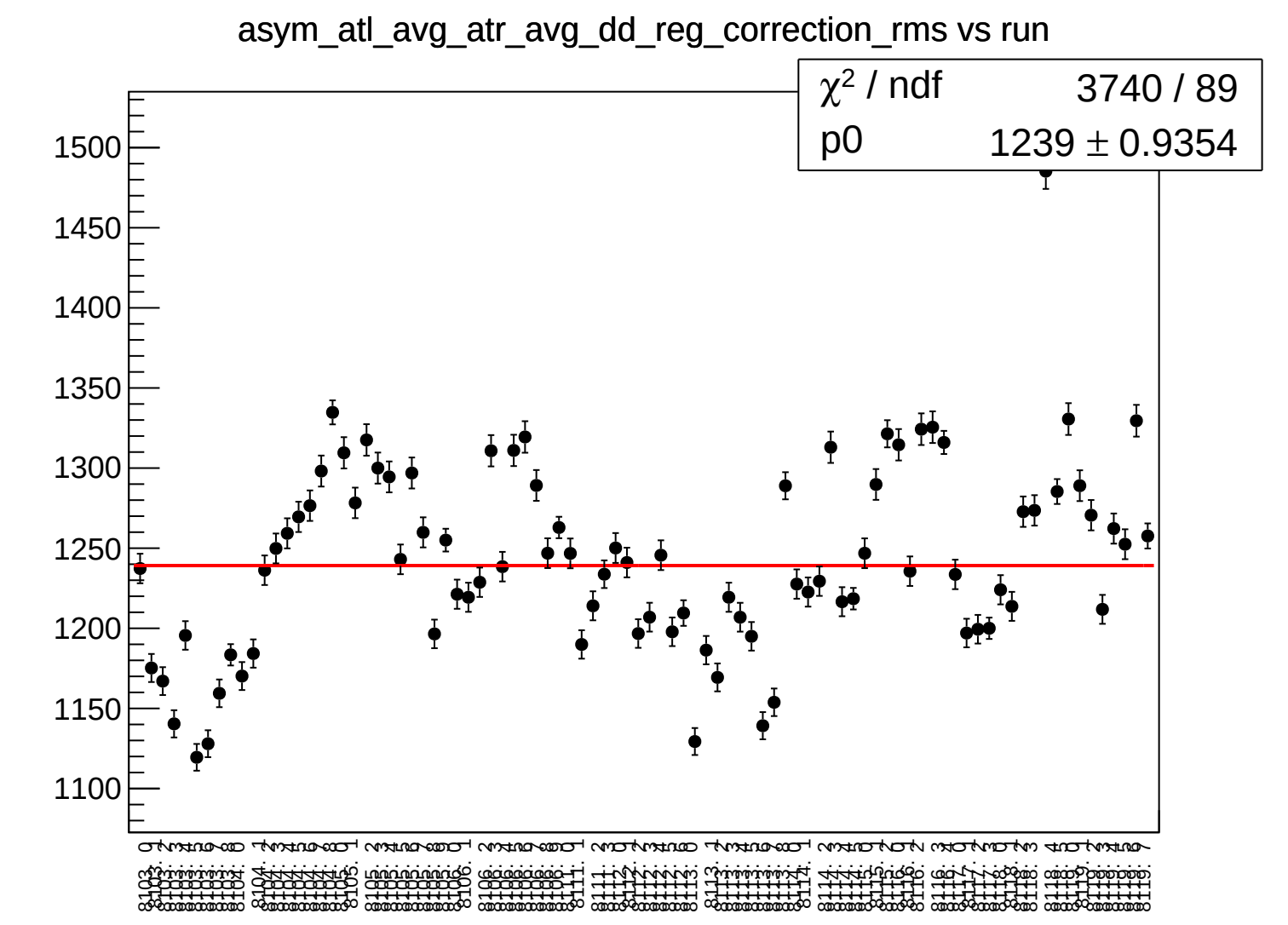

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.72 / 89
p0 −426.2 ± 1260
pull
Entries 90
Mean −8171
Std Dev 0

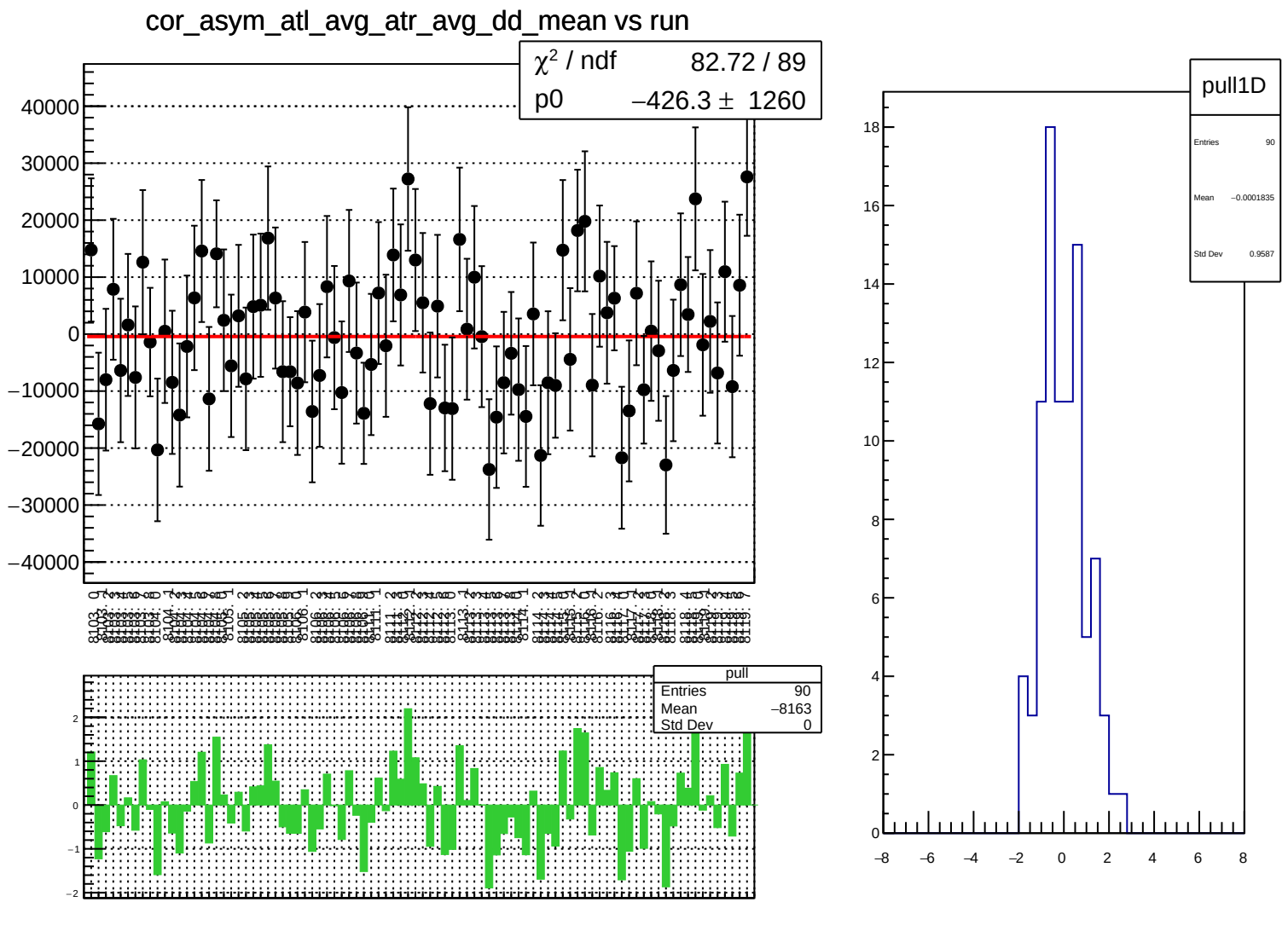

pull1D
Entries 90
Mean −0.0001833
Std Dev 0.9587

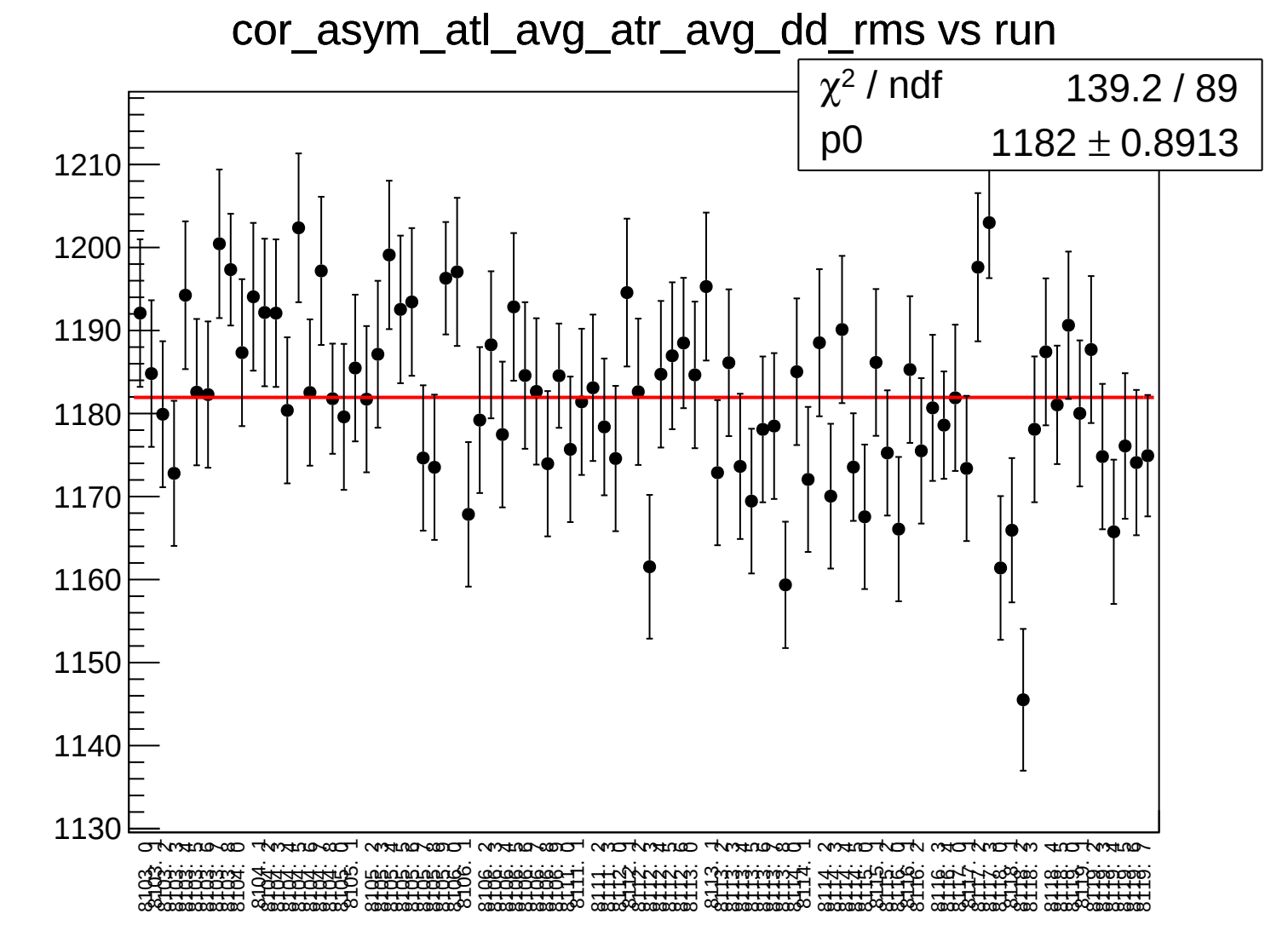

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 139.2 / 89
p0 1182 ± 0.8913
1210
1200
1190
1180
1170
1160
1150
1140
1130

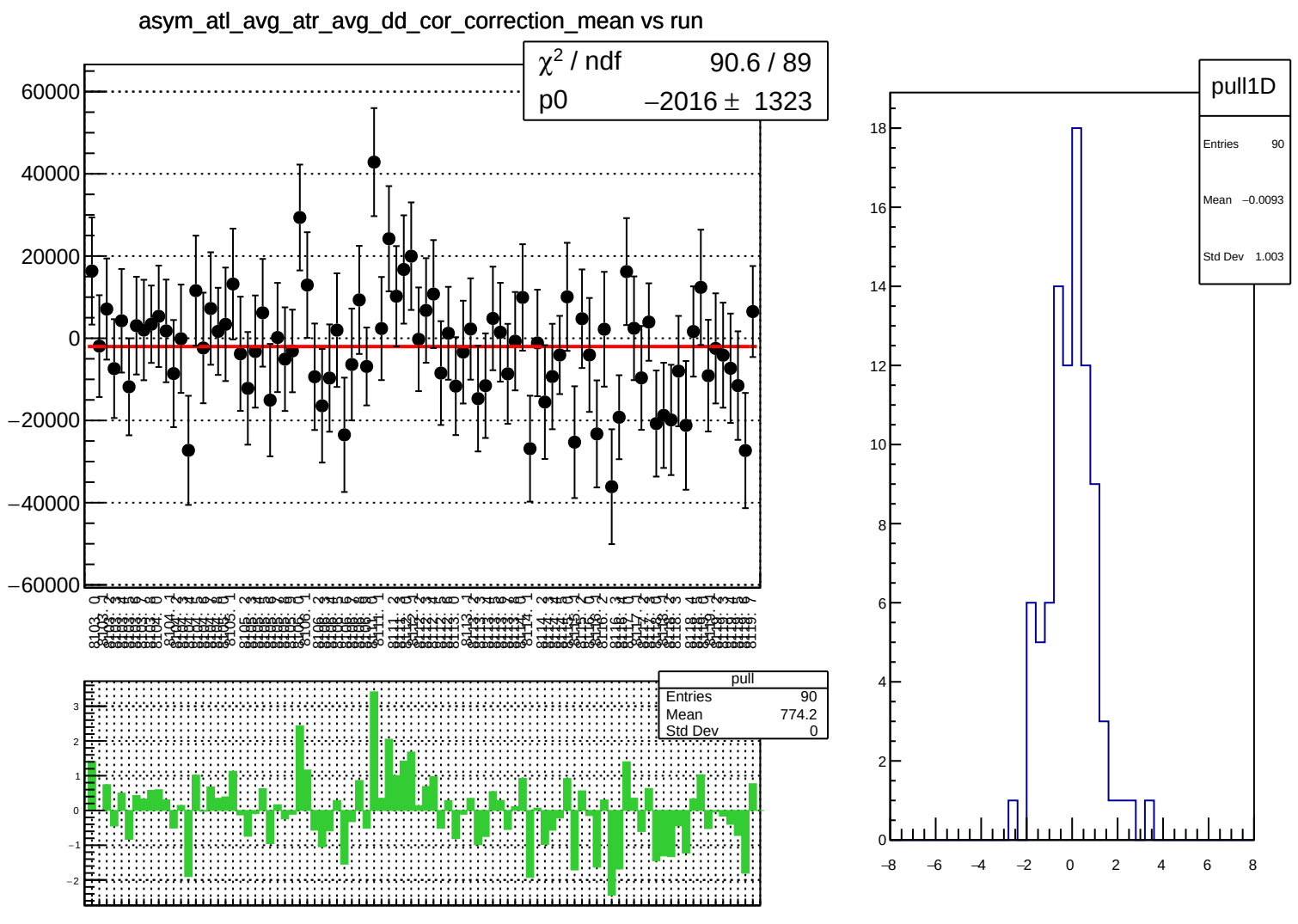

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 90.6 / 89
p0 −2016 ± 1323
pull
Entries 90
Mean 773.9
Std Dev 0

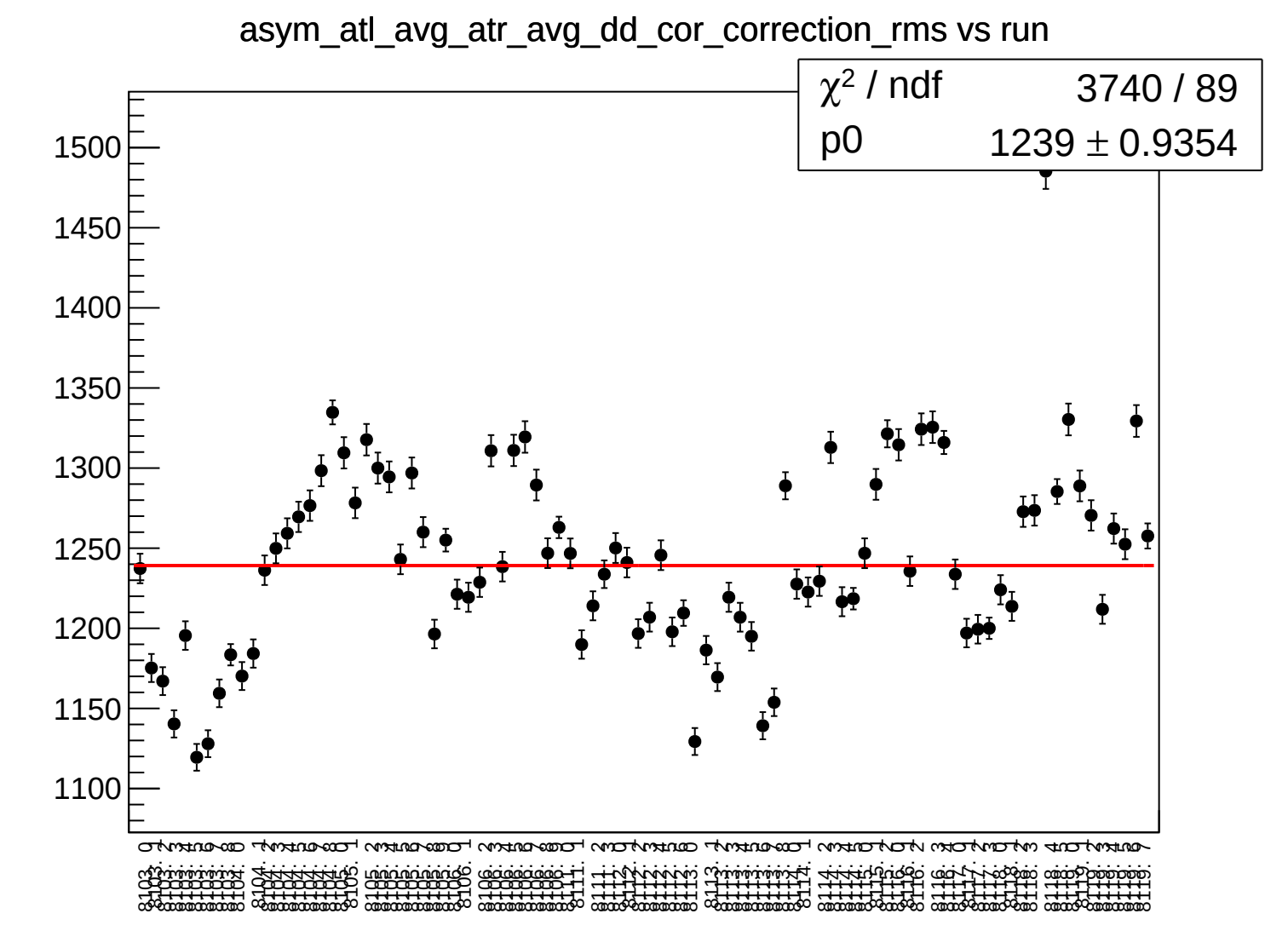

pull1D
Entries 90
Mean −0.009304
Std Dev 1.003

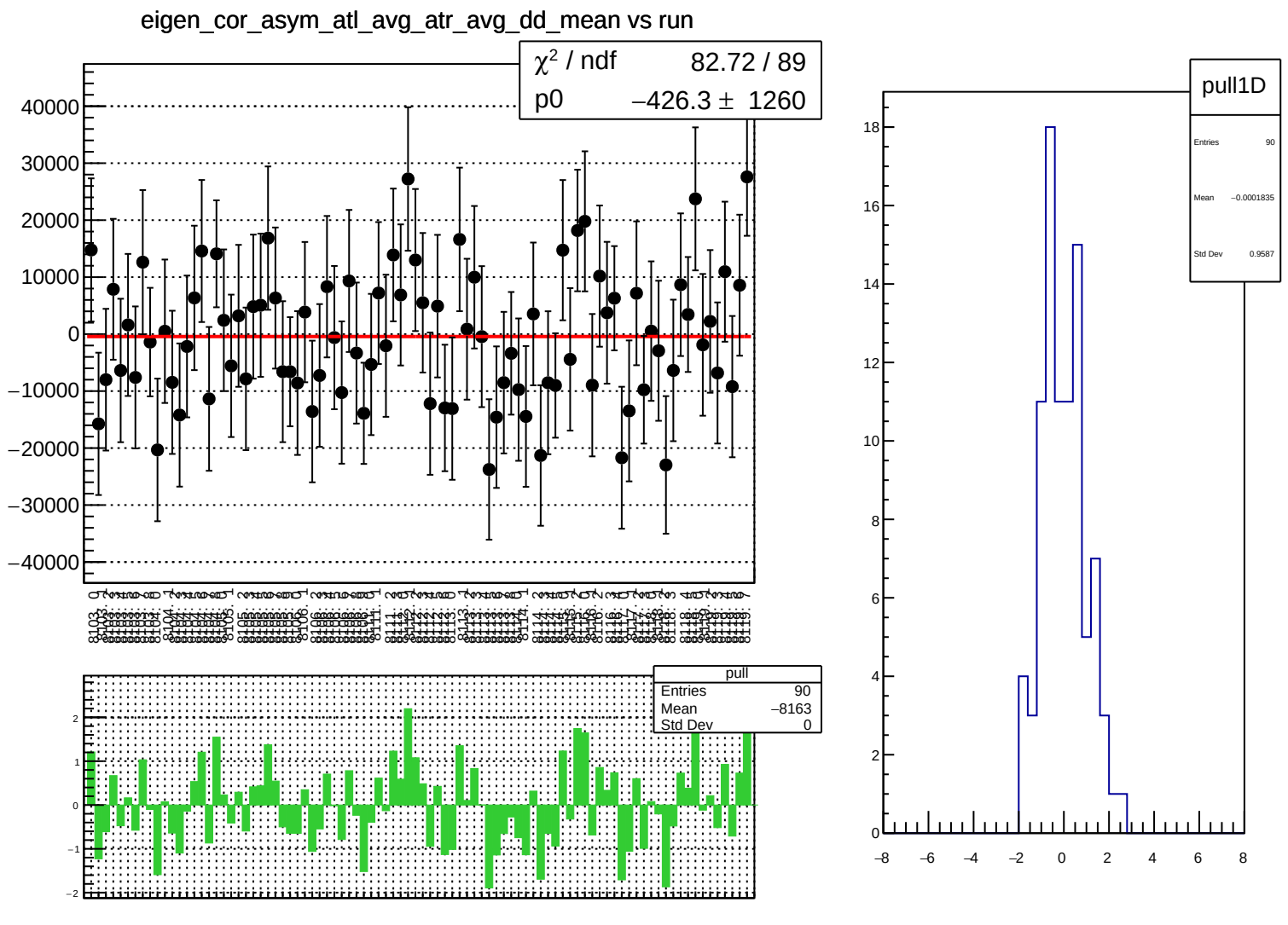

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 3740 / 89
p0 1239 ± 0.9354
1500
1450
1400
1350
1300
1250
1200
1150
1100

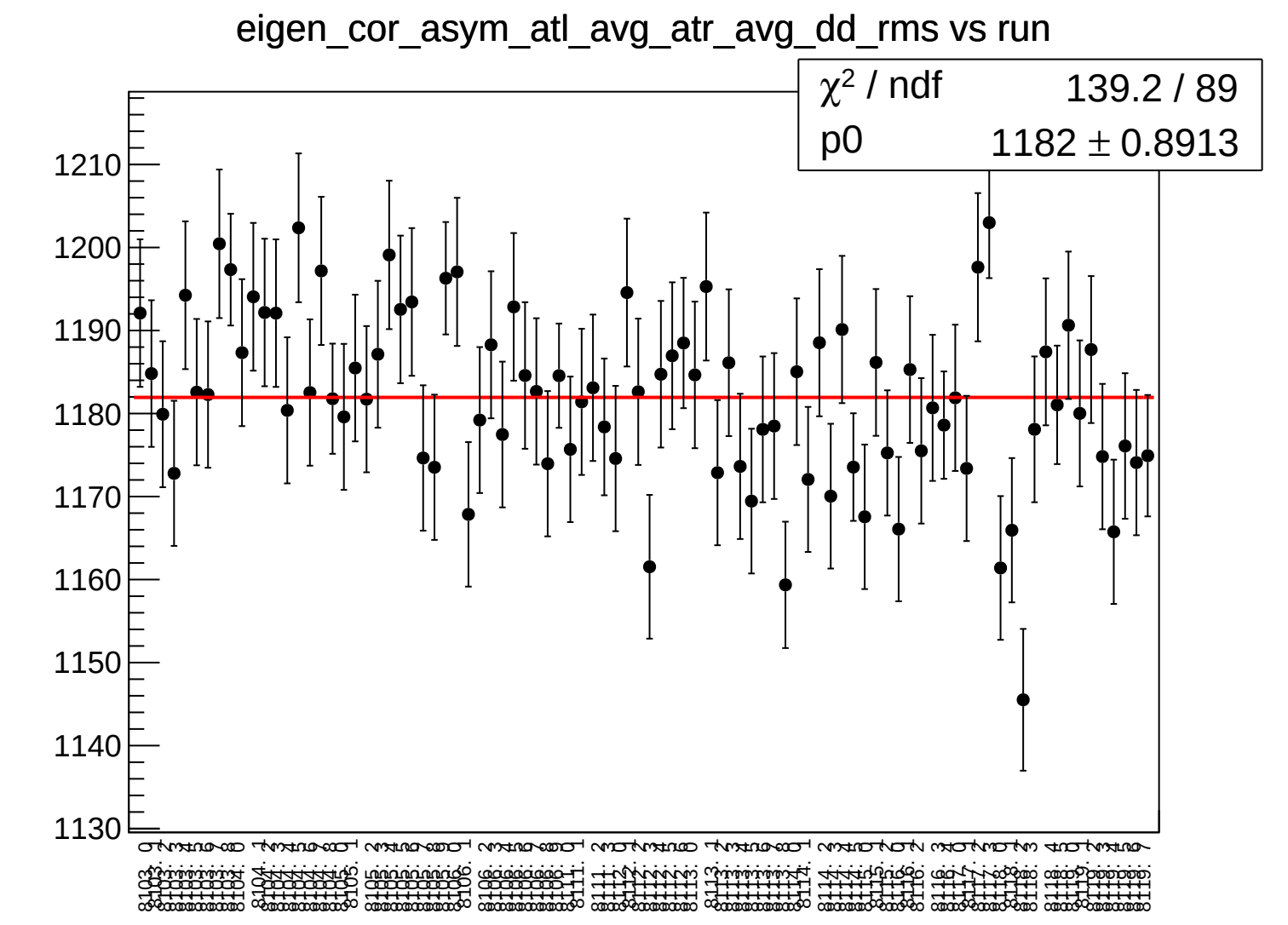

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.72 / 89
p0 −426.3 ± 1260
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −8163
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0001835
Std Dev 0.9587
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

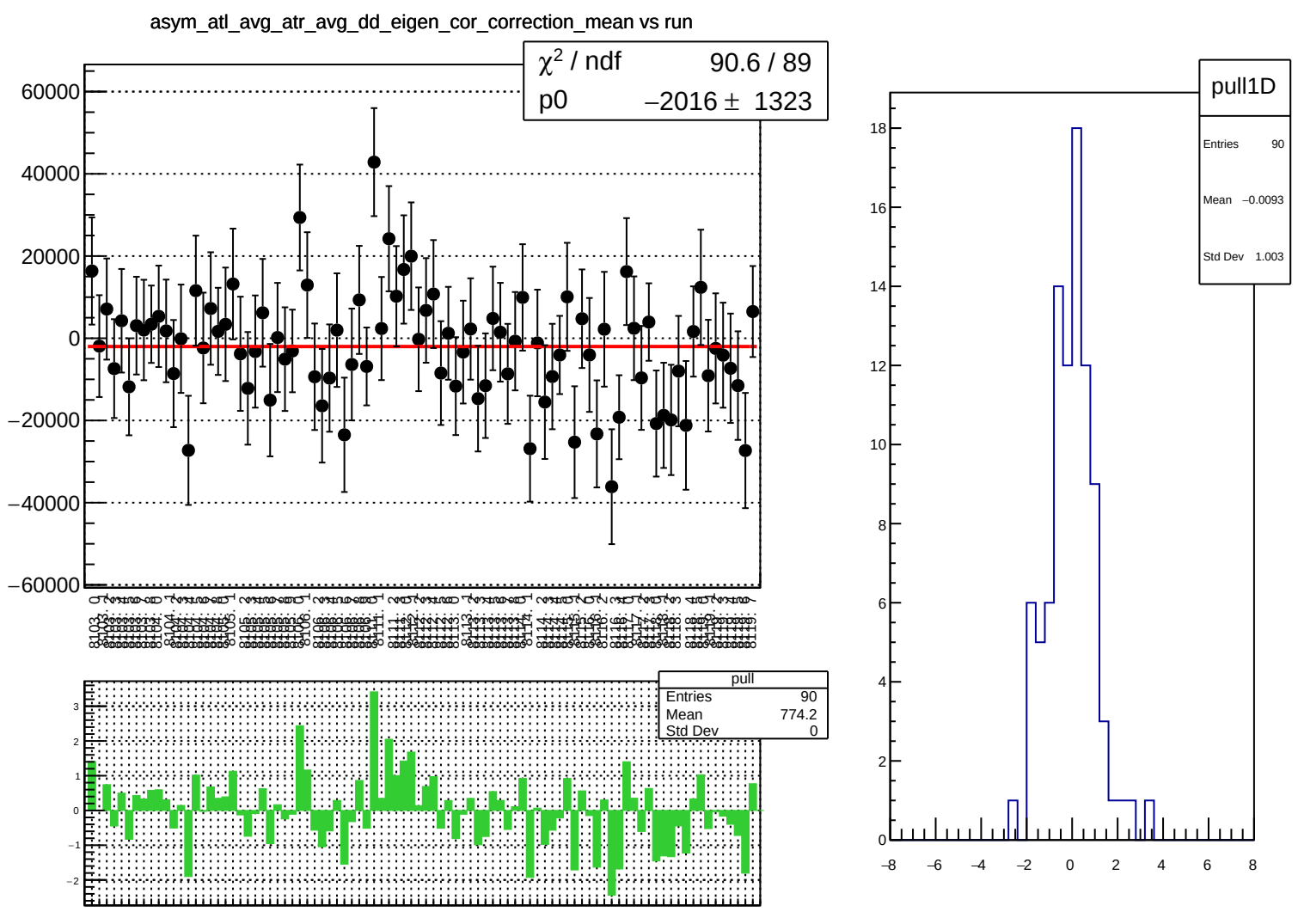

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 139.2 / 89
p0 1182 ± 0.8913
1210
1200
1190
1180
1170
1160
1150
1140
1130

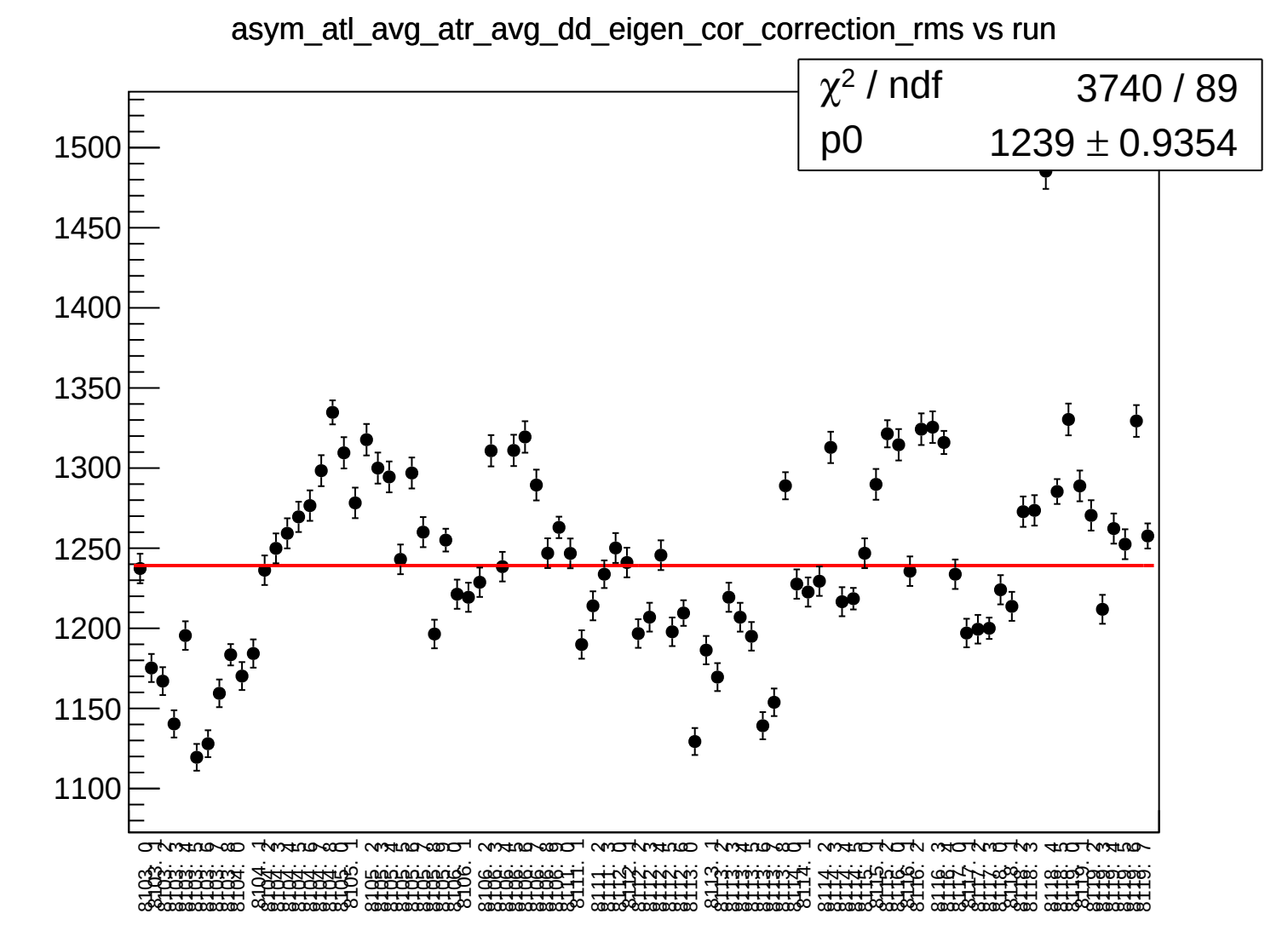

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 90.6 / 89
p0 −2016 ± 1323
pull
Entries 90
Mean 774.2
Std Dev 0
pull1D
Entries 90
Mean −0.0093
Std Dev 1.003

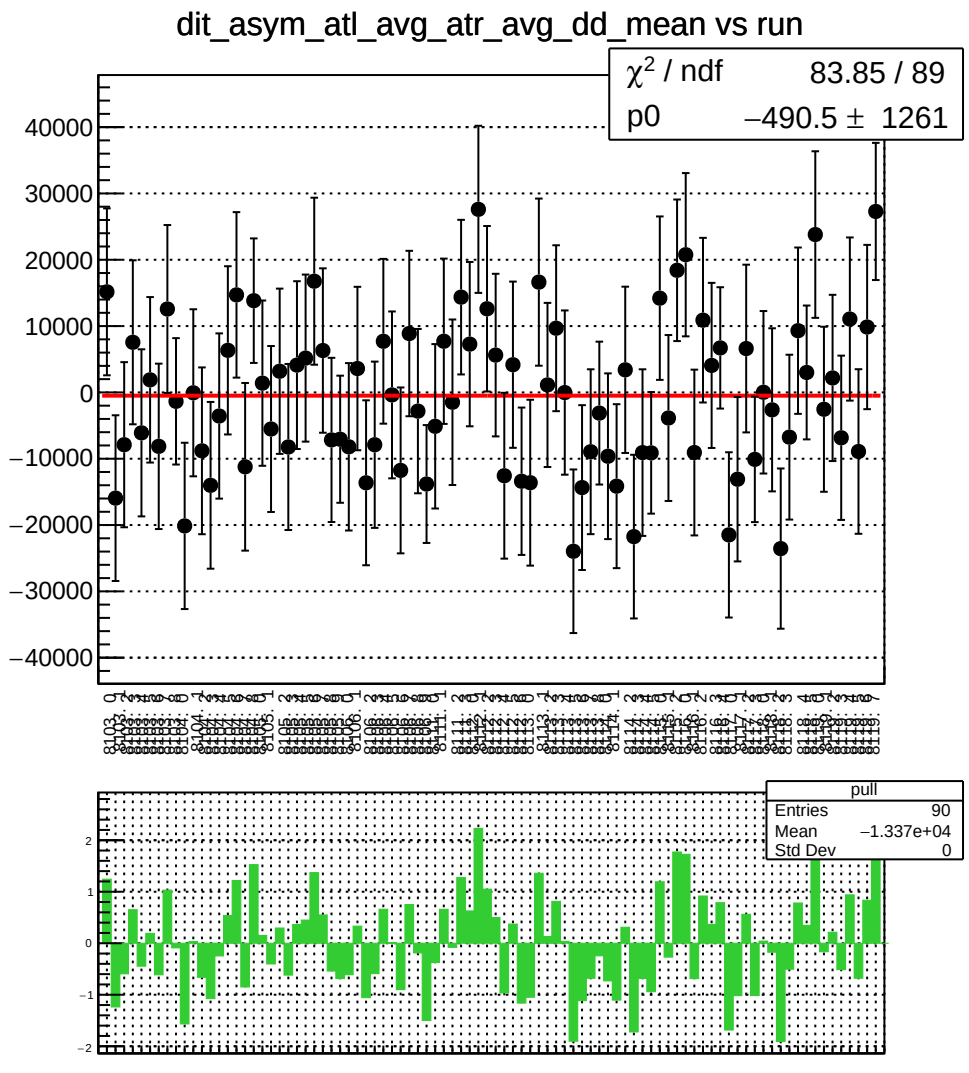

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 3740 / 89
p0 1239 ± 0.9354
1500
1450
1400
1350
1300
1250
1200
1150
1100

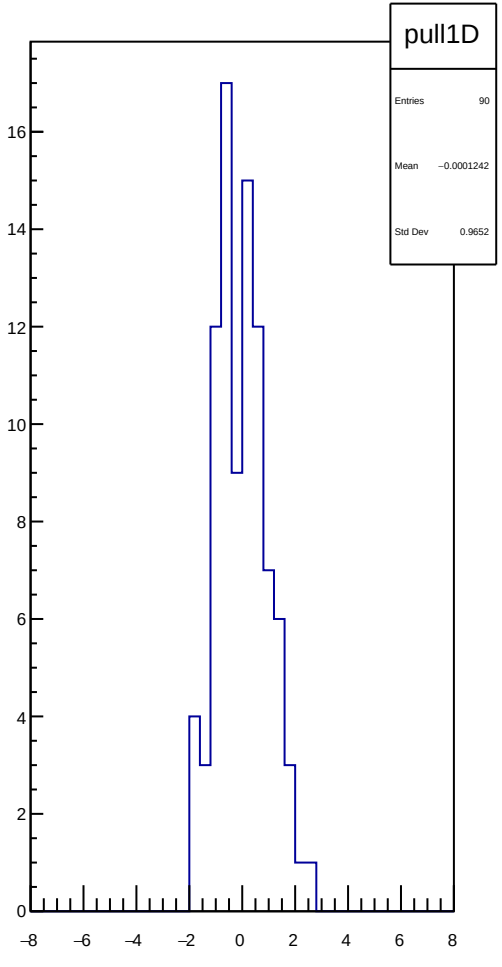

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.72 / 89
p0 −426.3 ± 1260
pull
Entries 90
Mean −8163
Std Dev 0
pull1D
Entries 90
Mean −0.0001835
Std Dev 0.9587

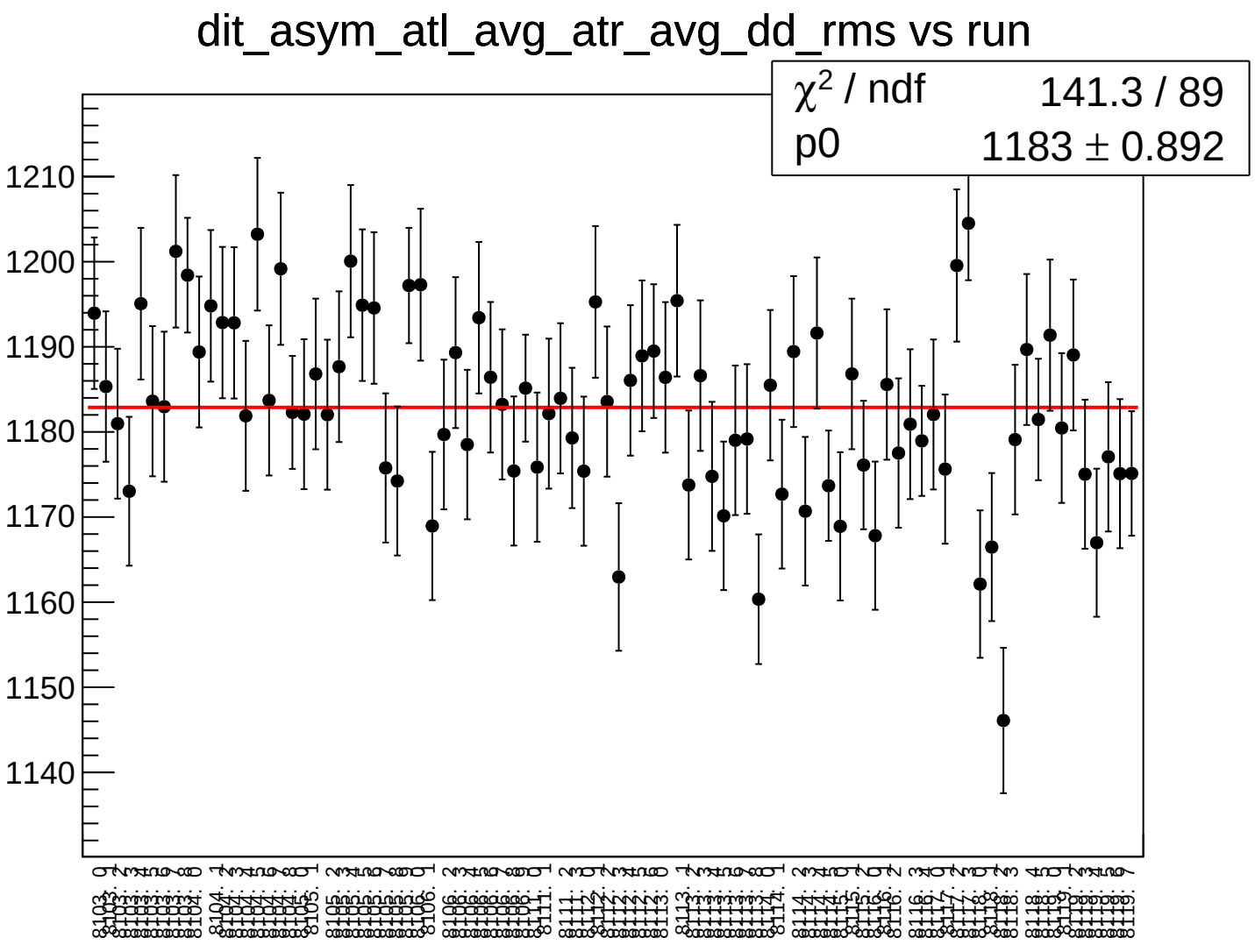

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 139.2 / 89
p0 1182 ± 0.8913
1210
1200
1190
1180
1170
1160
1150
1140
1130

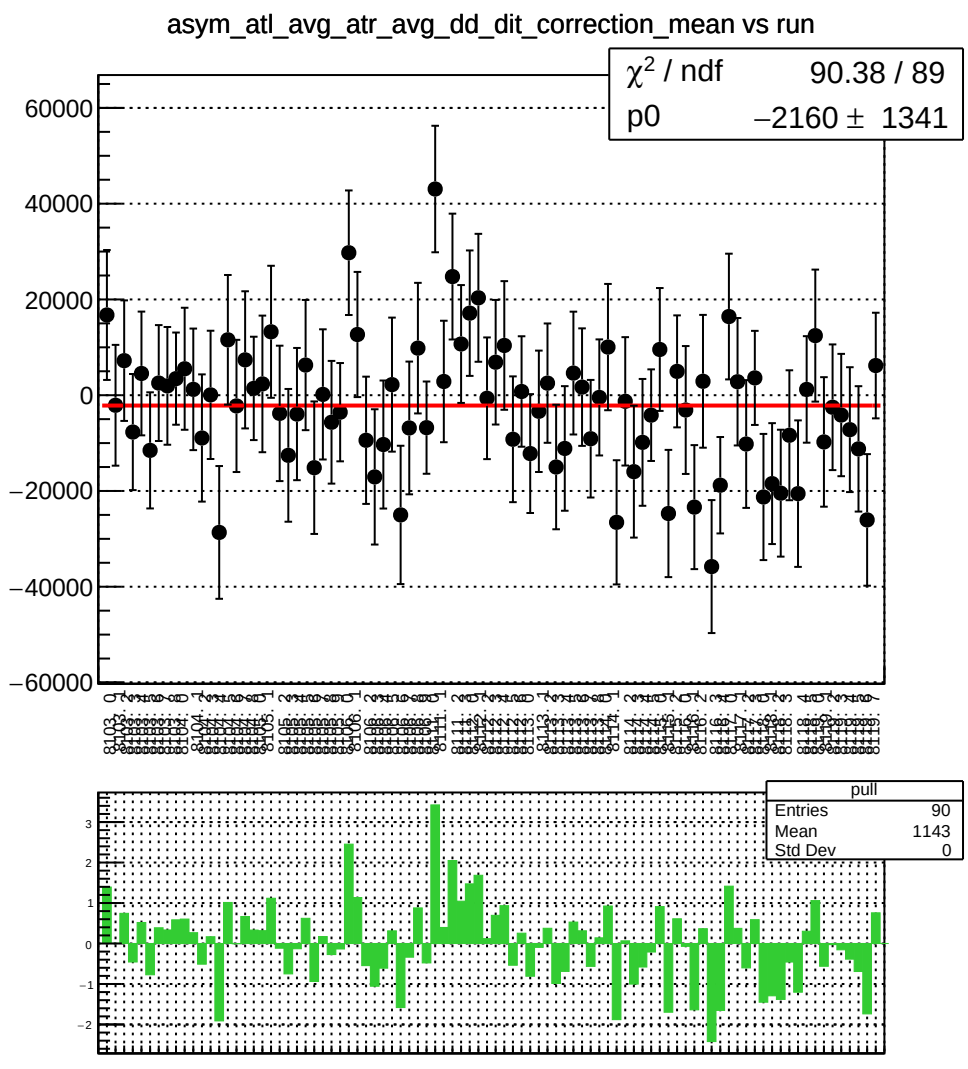

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.6 / 89
p0 −2016 ± 1323
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 774.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0093
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

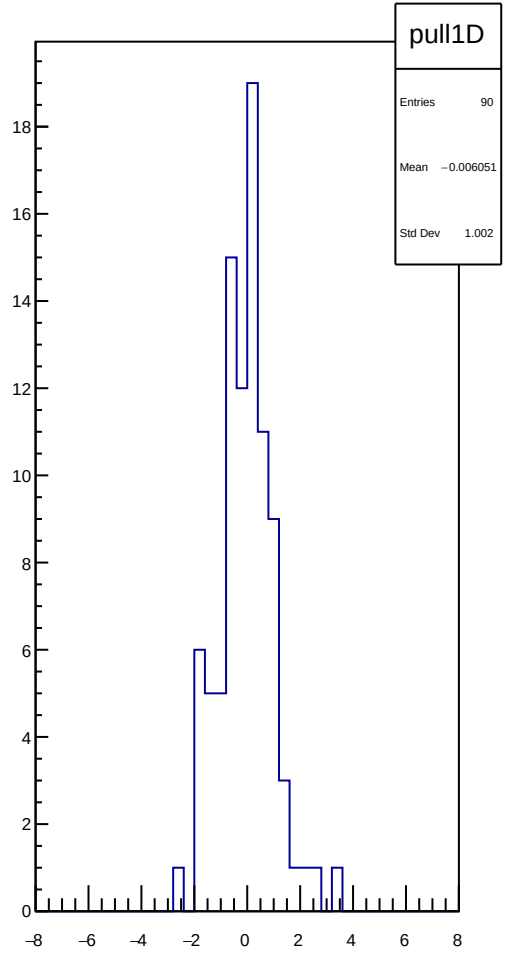

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3740 / 89
p0 1239 ± 0.9354
1500
1450
1400
1350
1300
1250
1200
1150
1100

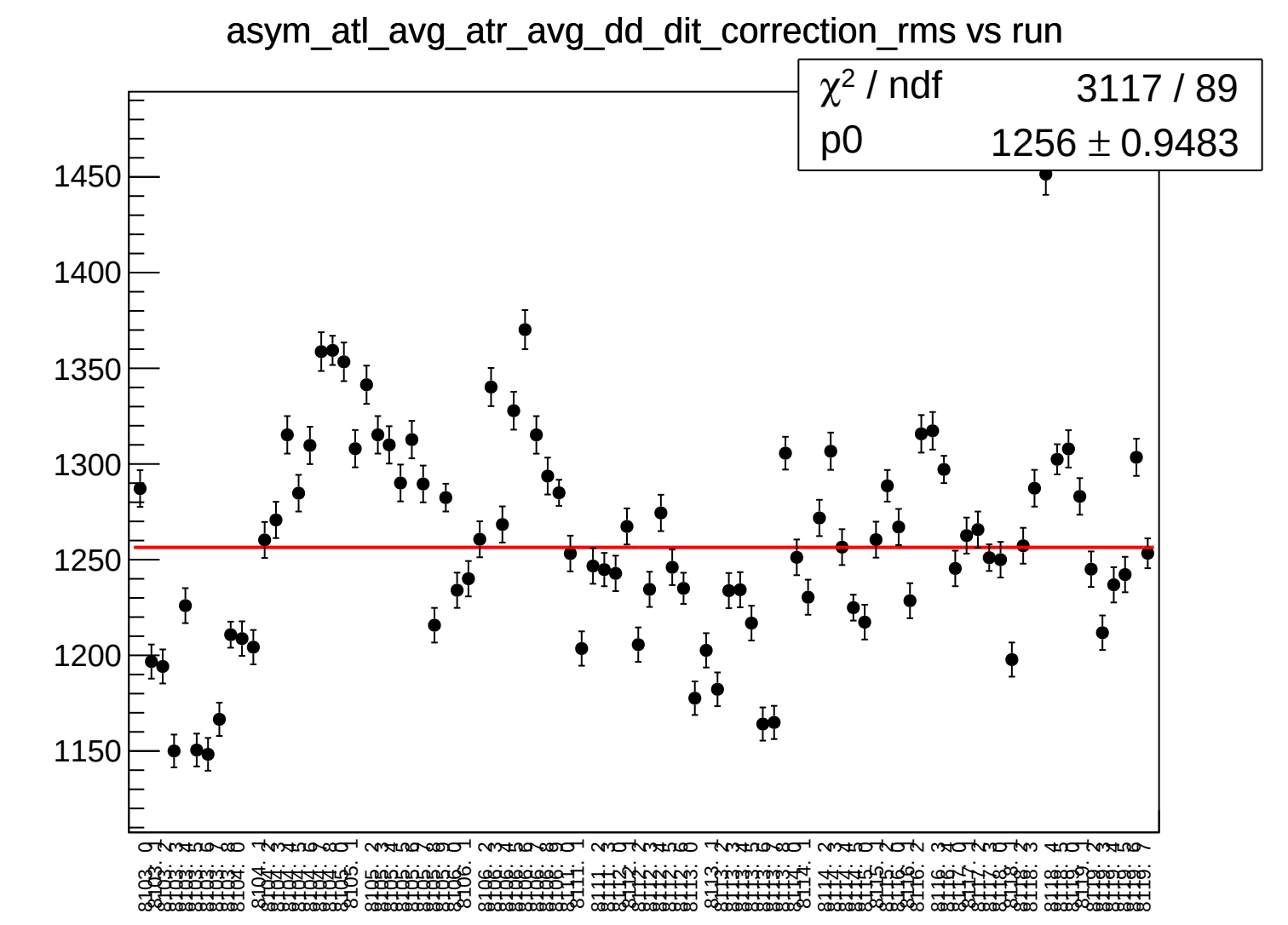

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.85 / 89
p0 −490.5 ± 1261
pull
Entries 90
Mean −1.337e+04
Std Dev 0

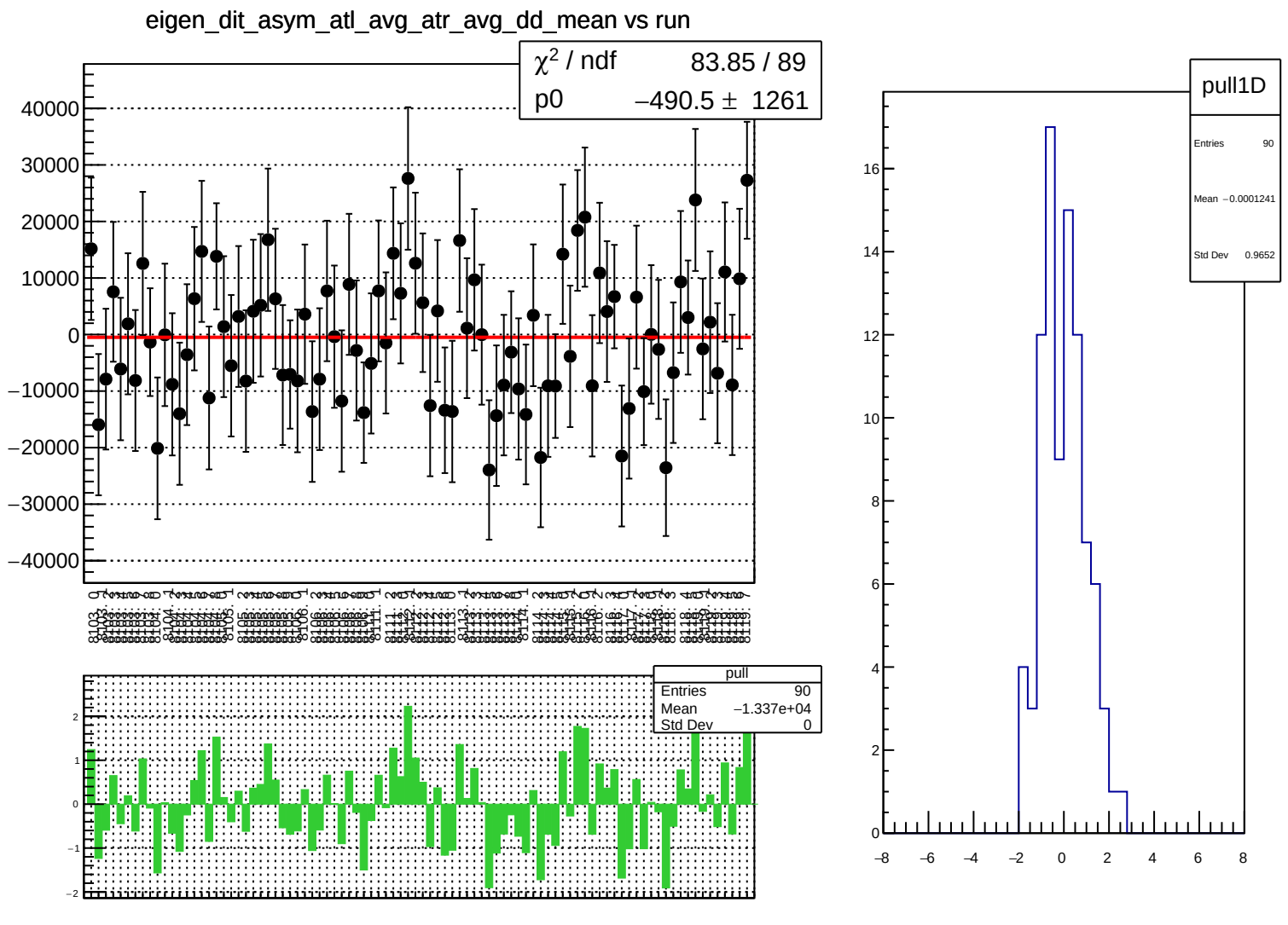

pull1D
Entries 90
Mean −0.0001242
Std Dev 0.9652

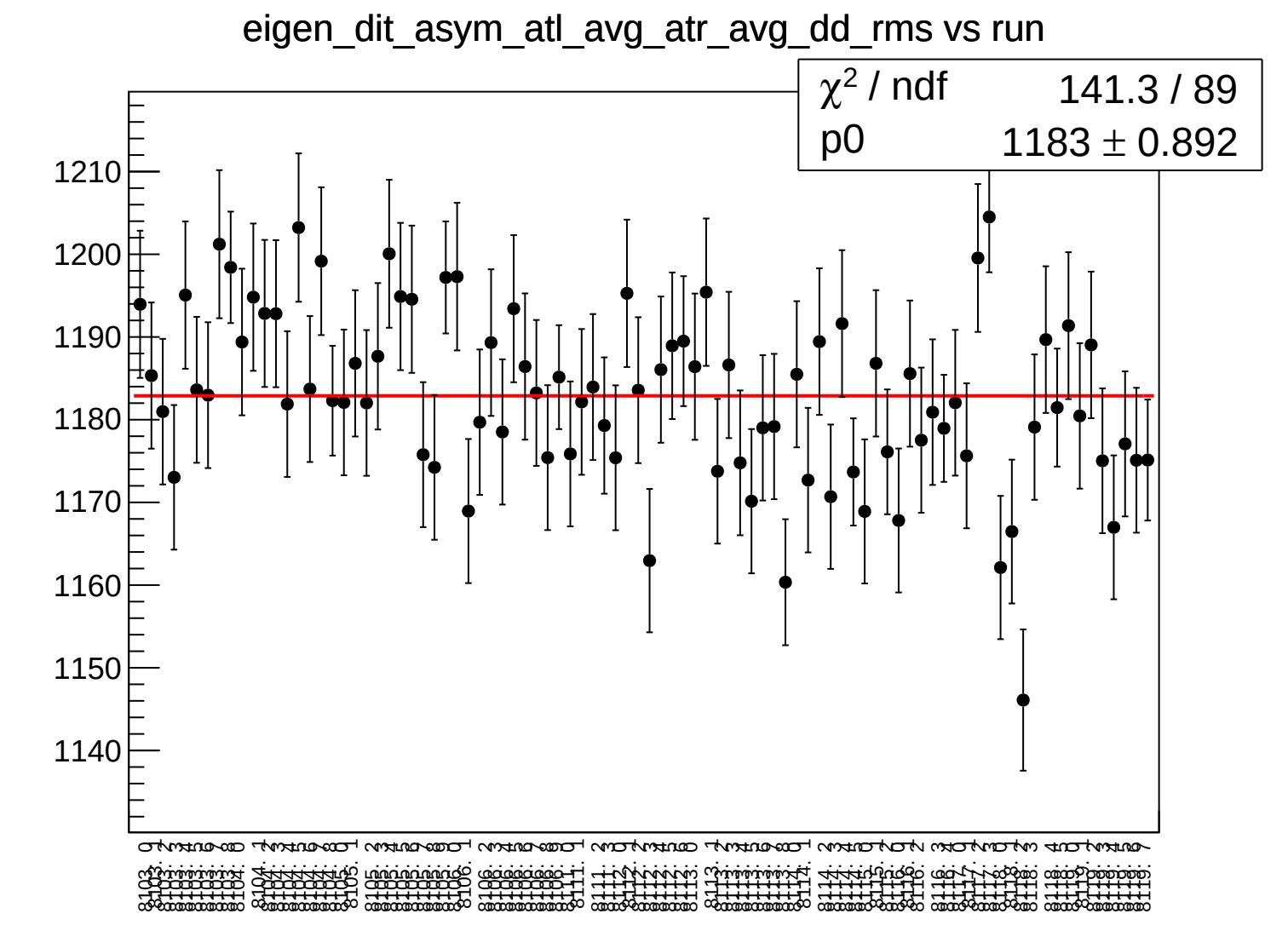

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 141.3 / 89
p0 1183 ± 0.892
1210
1200
1190
1180
1170
1160
1150
1140

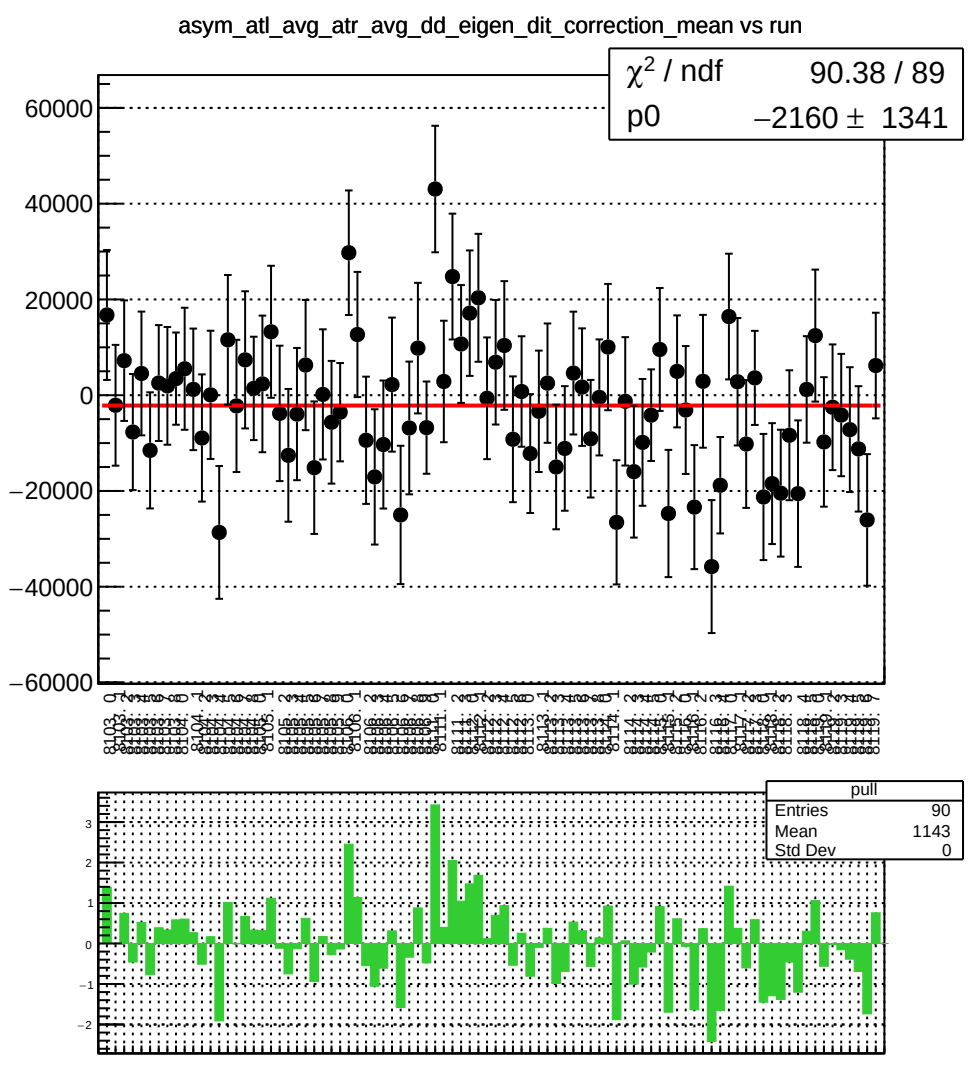

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 90.38 / 89
p0 −2160 ± 1341
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1143
Std Dev 0
3
2
1
0
−1
−2

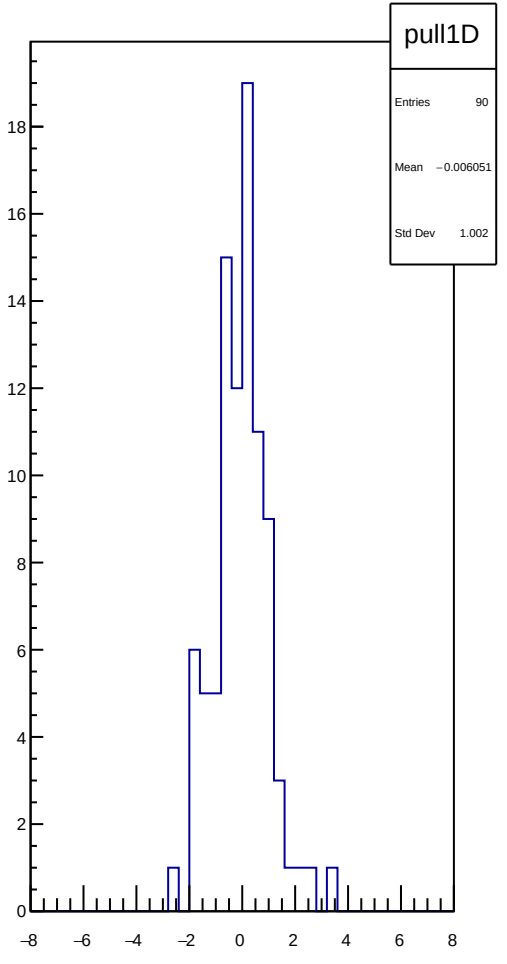

pull1D
Entries 90
Mean −0.006051
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

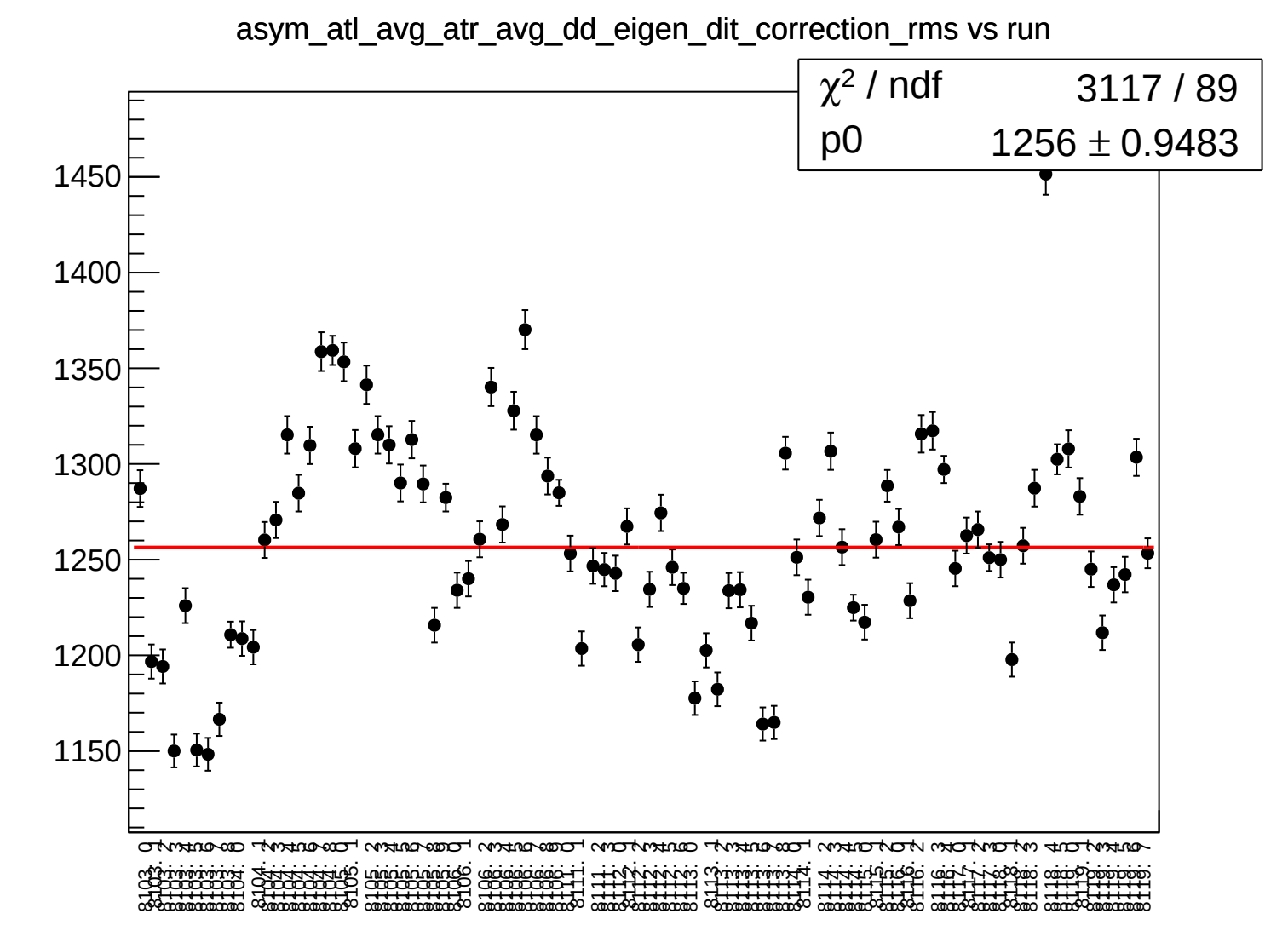

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3117 / 89
p0 1256 ± 0.9483
1450
1400
1350
1300
1250
1200
1150

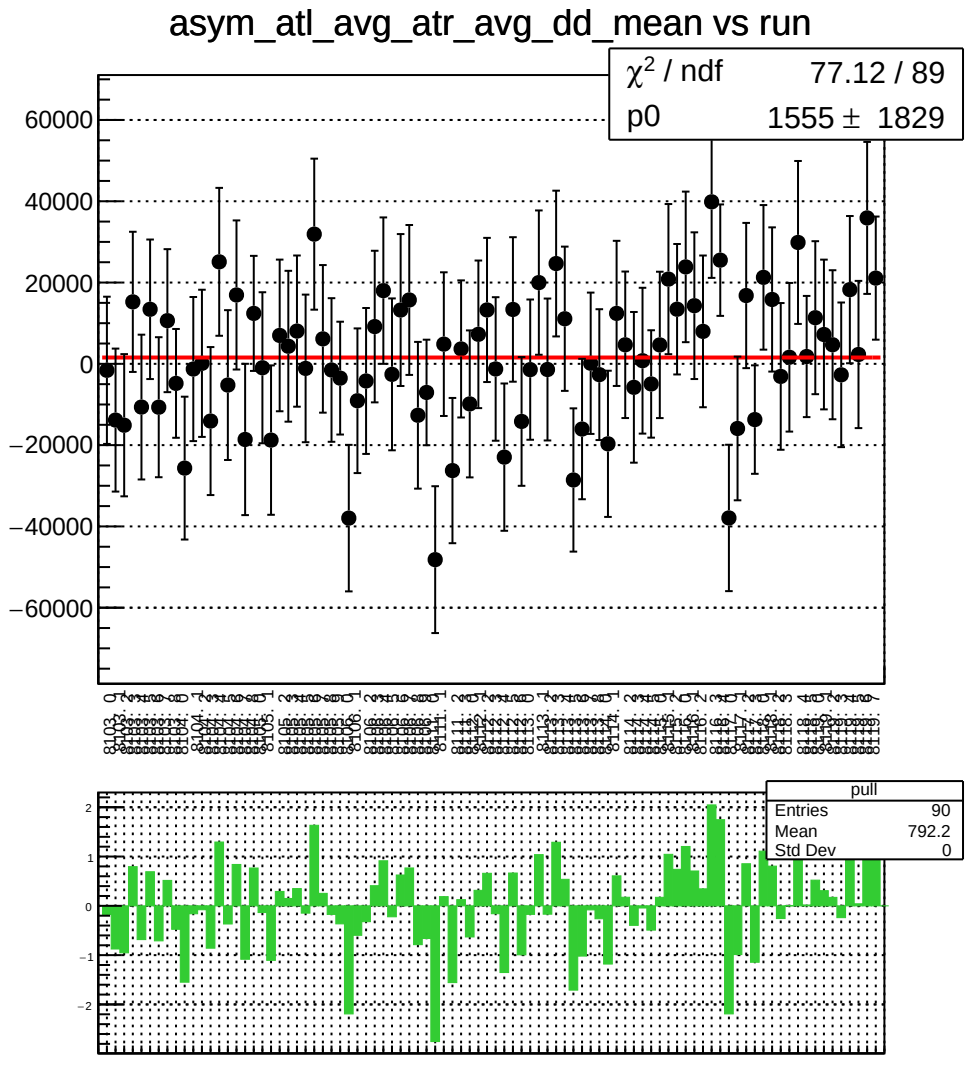

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.85 / 89
p0 −490.5 ± 1261
pull
Entries 90
Mean −1.337e+04
Std Dev 0
pull1D
Entries 90
Mean −0.0001241
Std Dev 0.9652

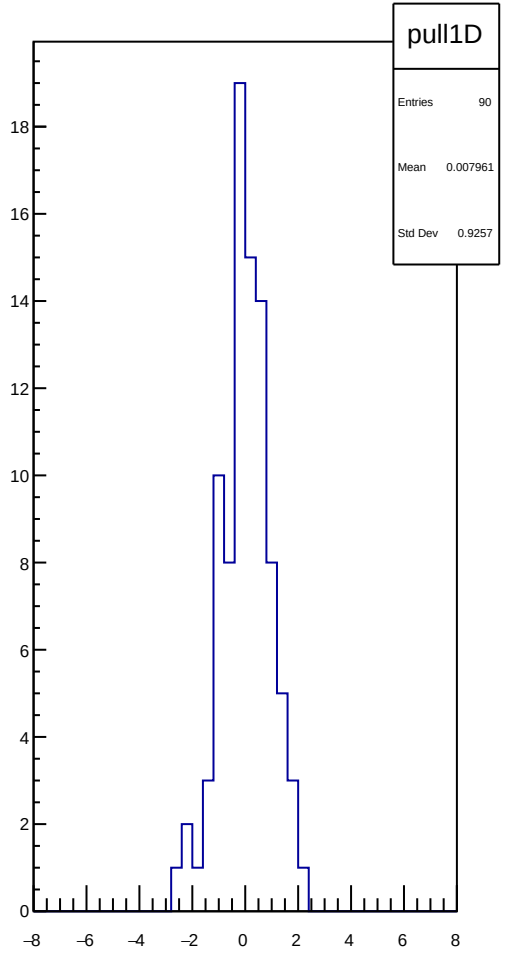

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 141.3 / 89
p0 1183 ± 0.892
1210
1200
1190
1180
1170
1160
1150
1140

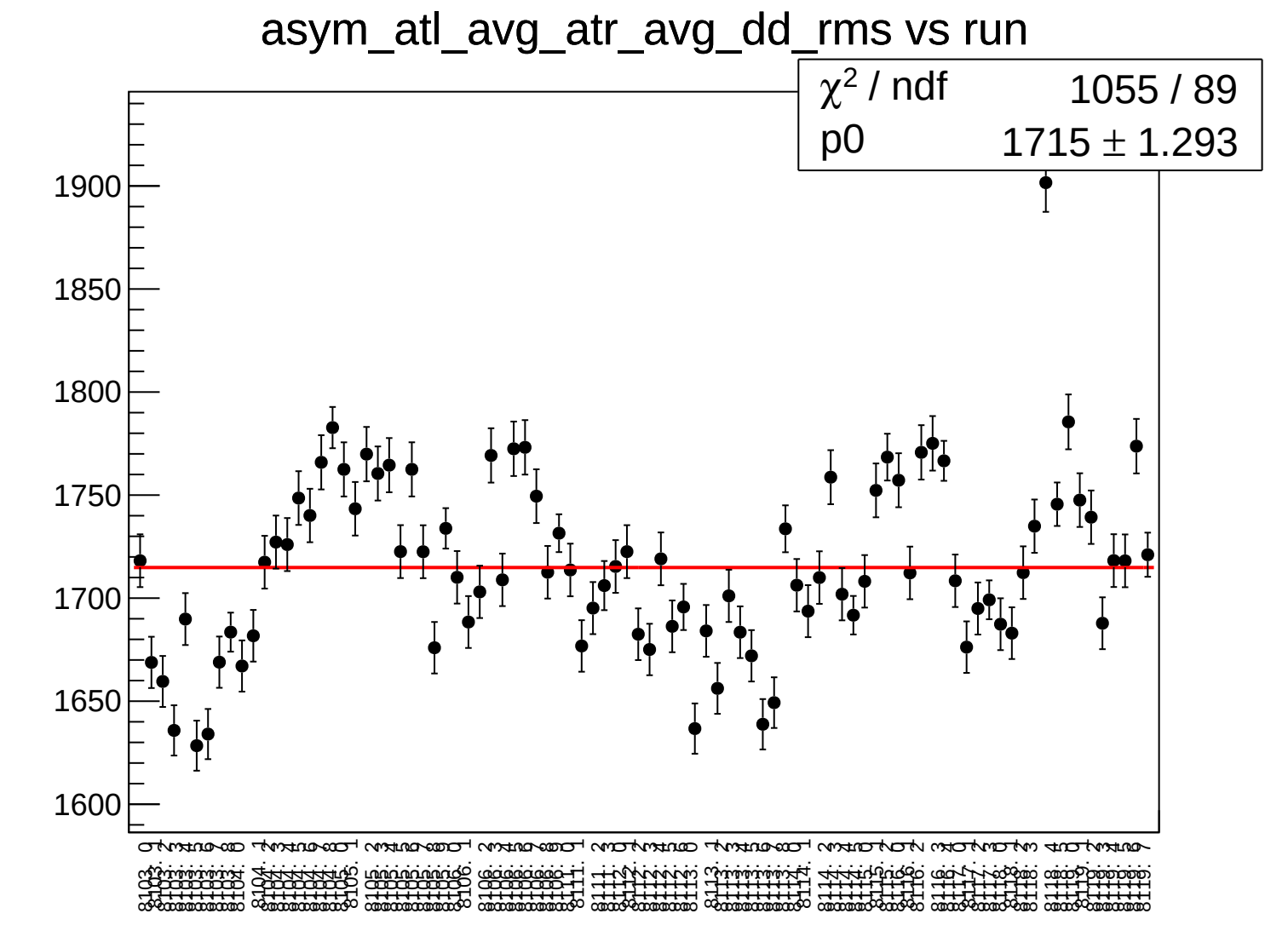

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.38 / 89
p0 −2160 ± 1341
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1143
Std Dev 0
3
2
1
0
−1
−2

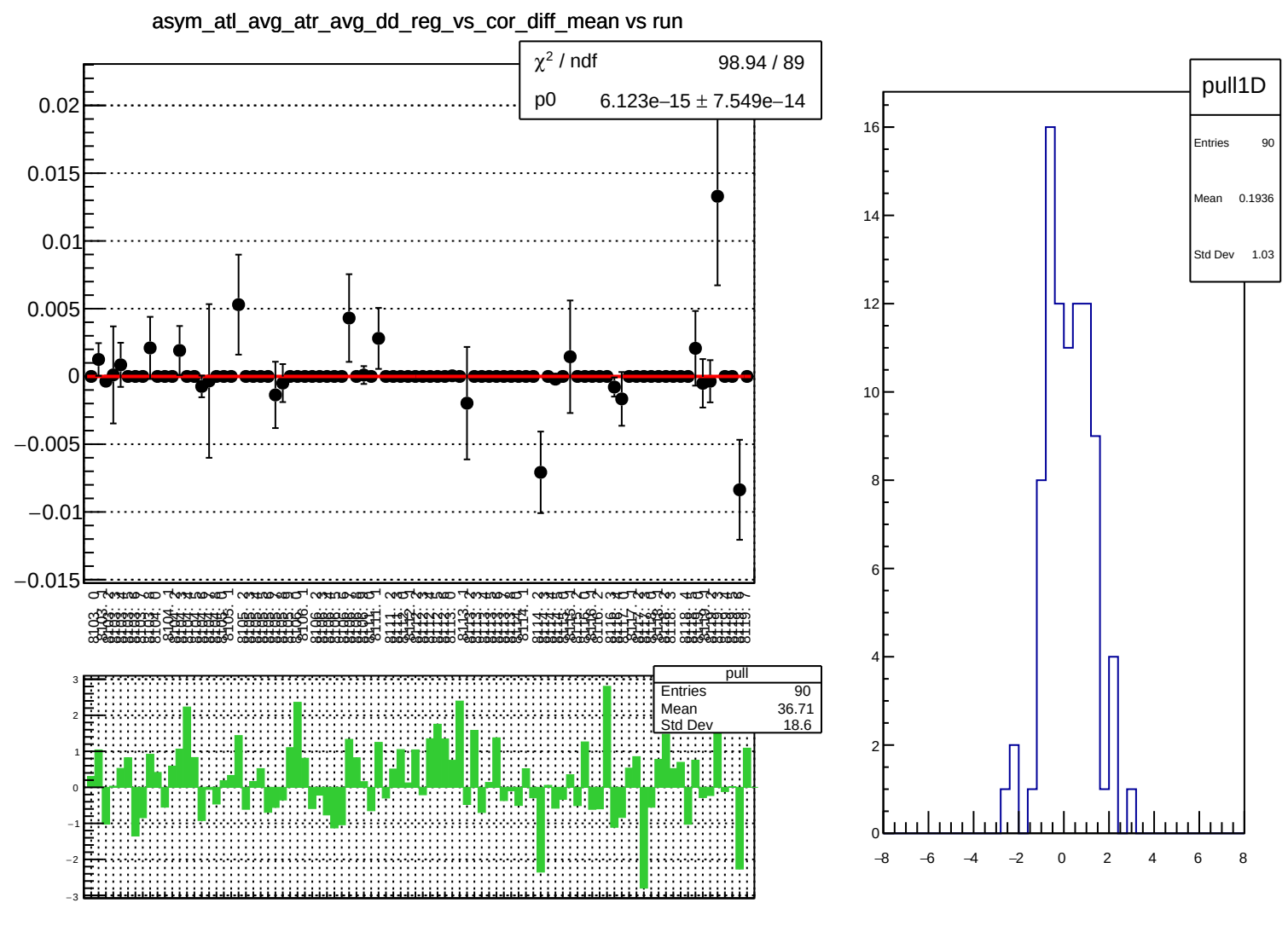

pull1D
Entries 90
Mean −0.006051
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

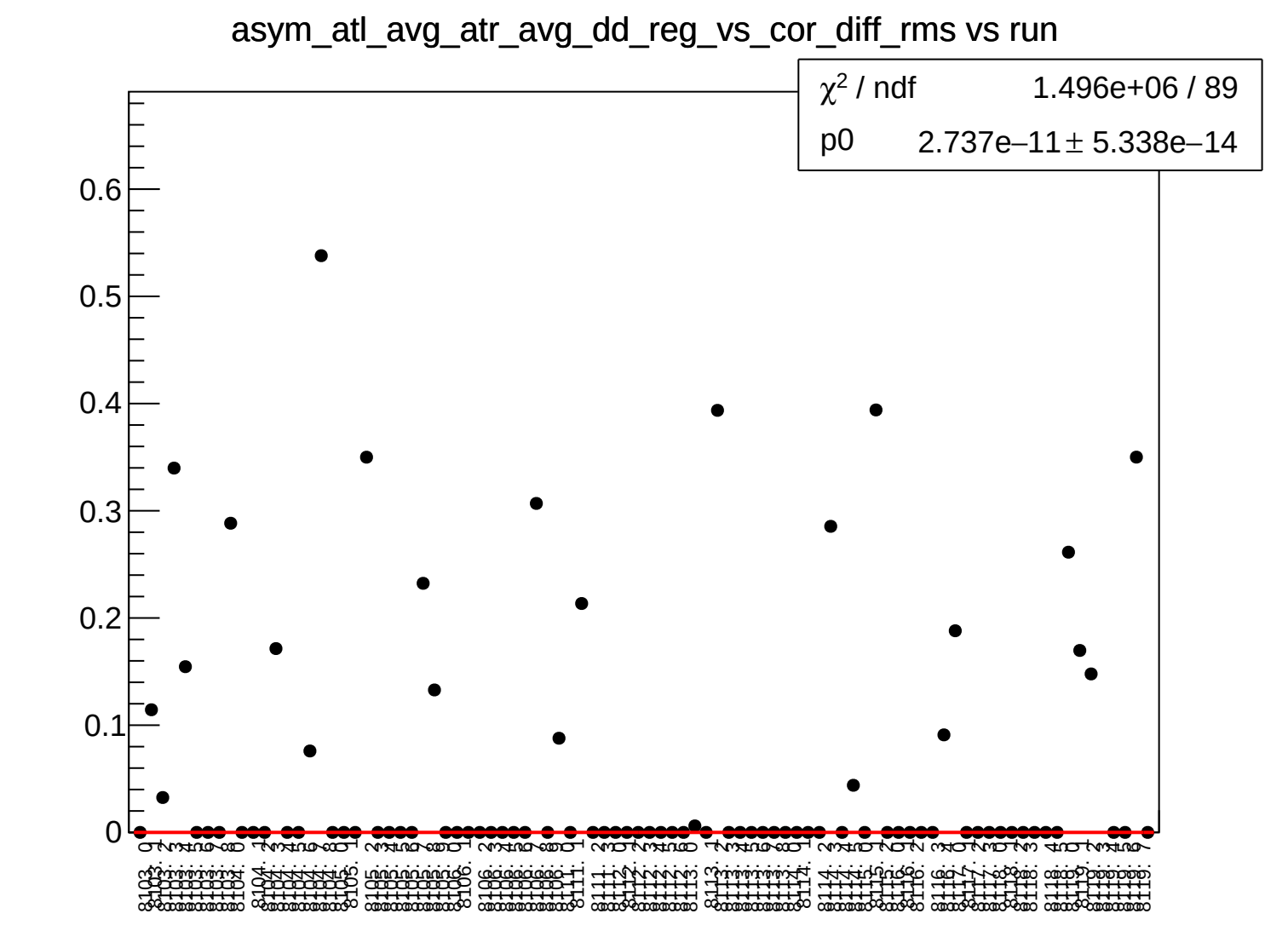

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3117 / 89
p0 1256 ± 0.9483
1450
1400
1350
1300
1250
1200
1150

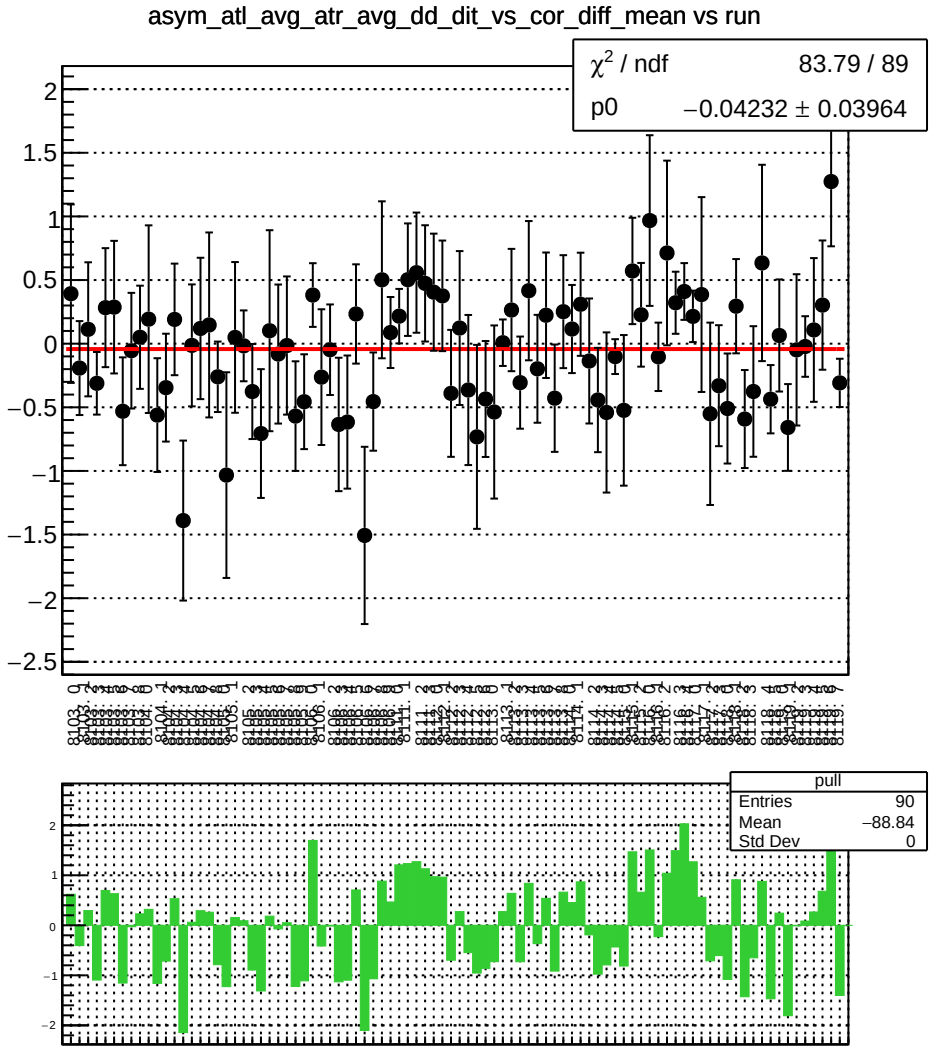

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.12 / 89
p0 1555 ± 1829
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 792.2
Std Dev 0
2
1
0
−1
−2

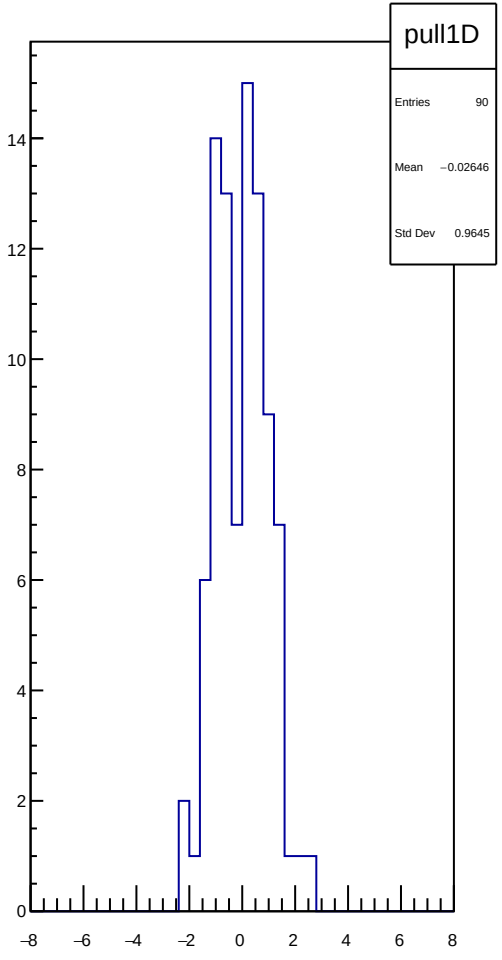

pull1D
Entries 90
Mean 0.007961
Std Dev 0.9257
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

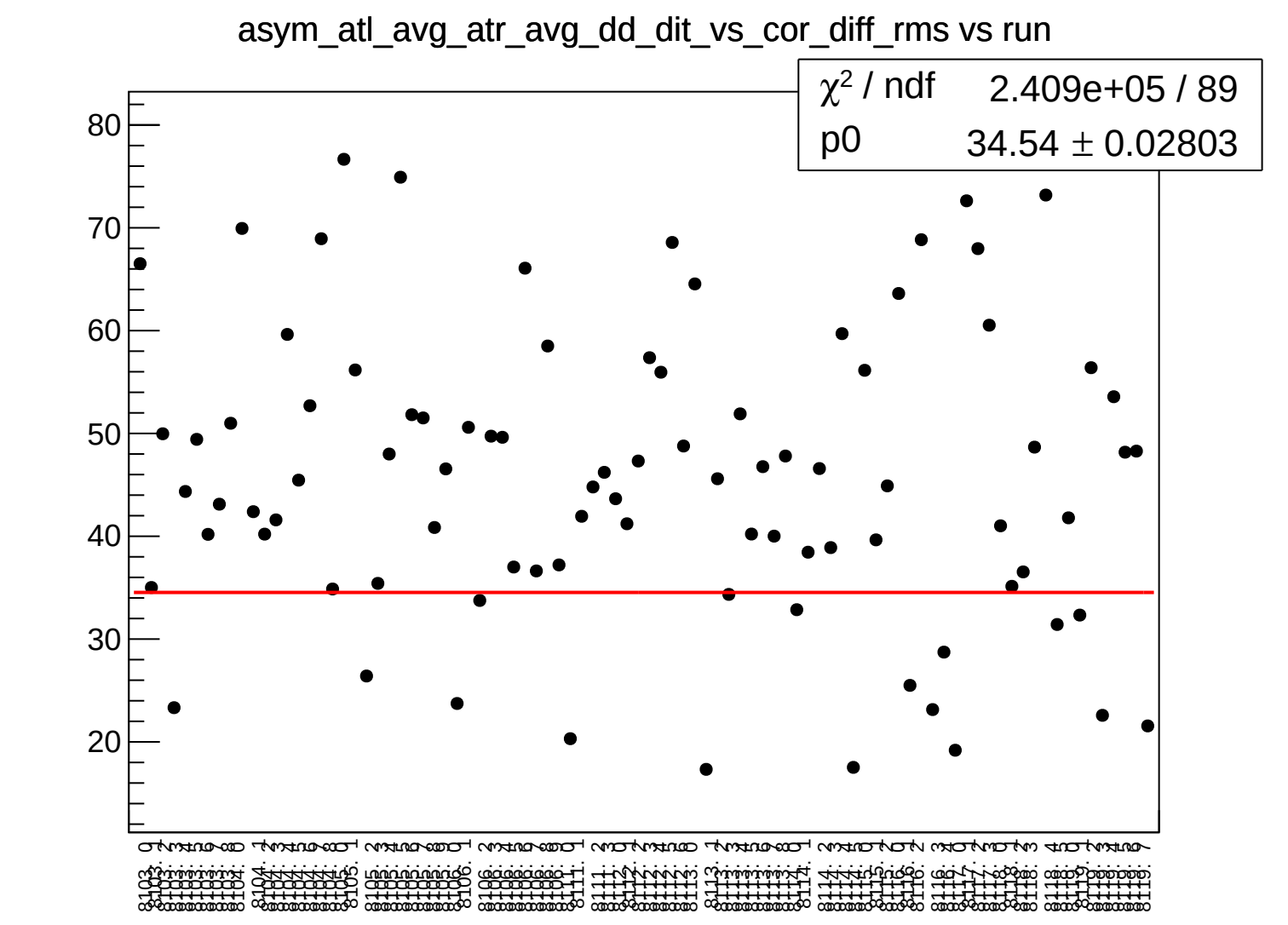

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1055 / 89
p0 1715 ± 1.293
1900
1850
1800
1750
1700
1650
1600

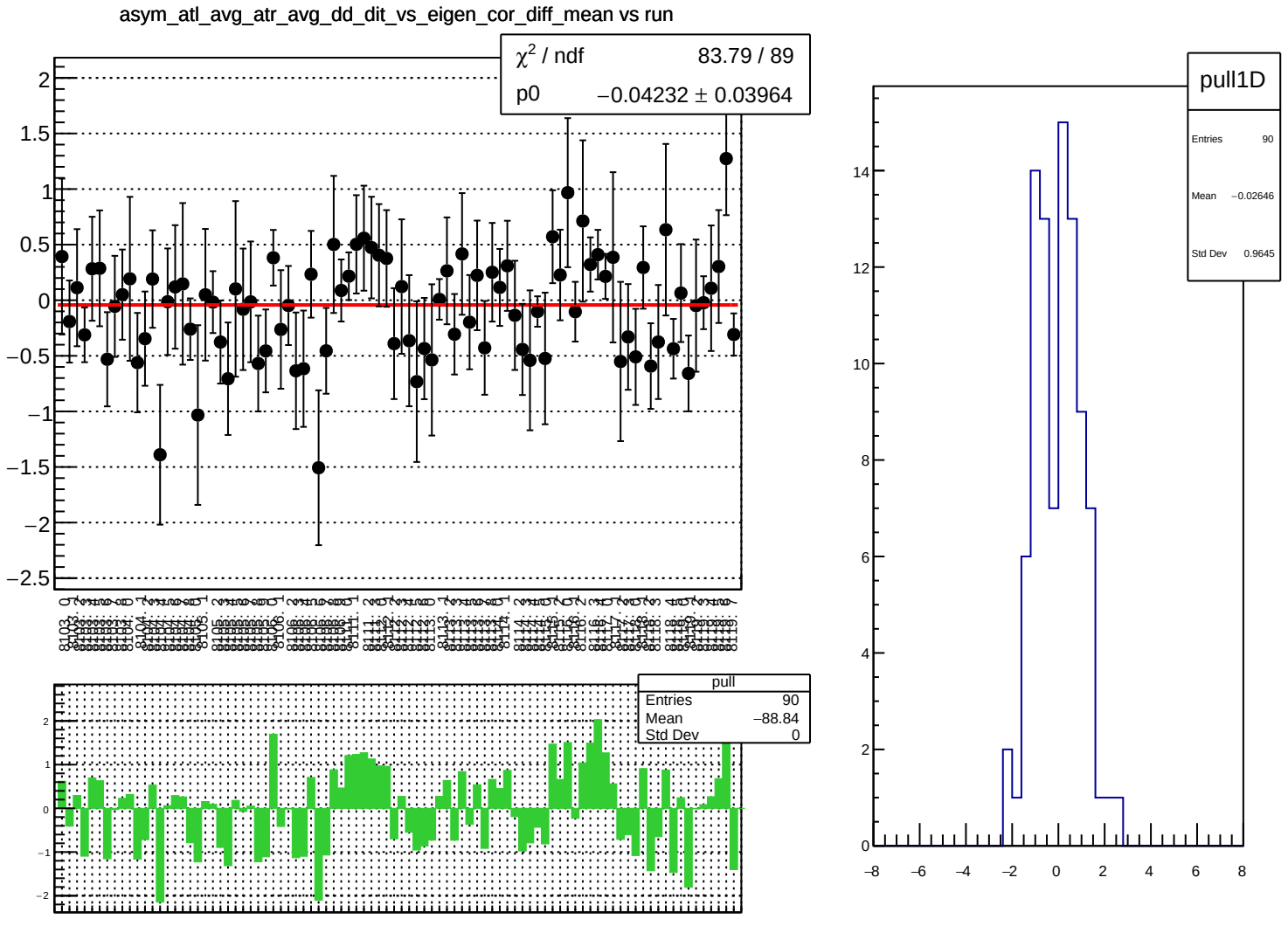

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.94 / 89
p0 6.123e−15 ± 7.549e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 36.71
Std Dev 18.6
3
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.1936
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

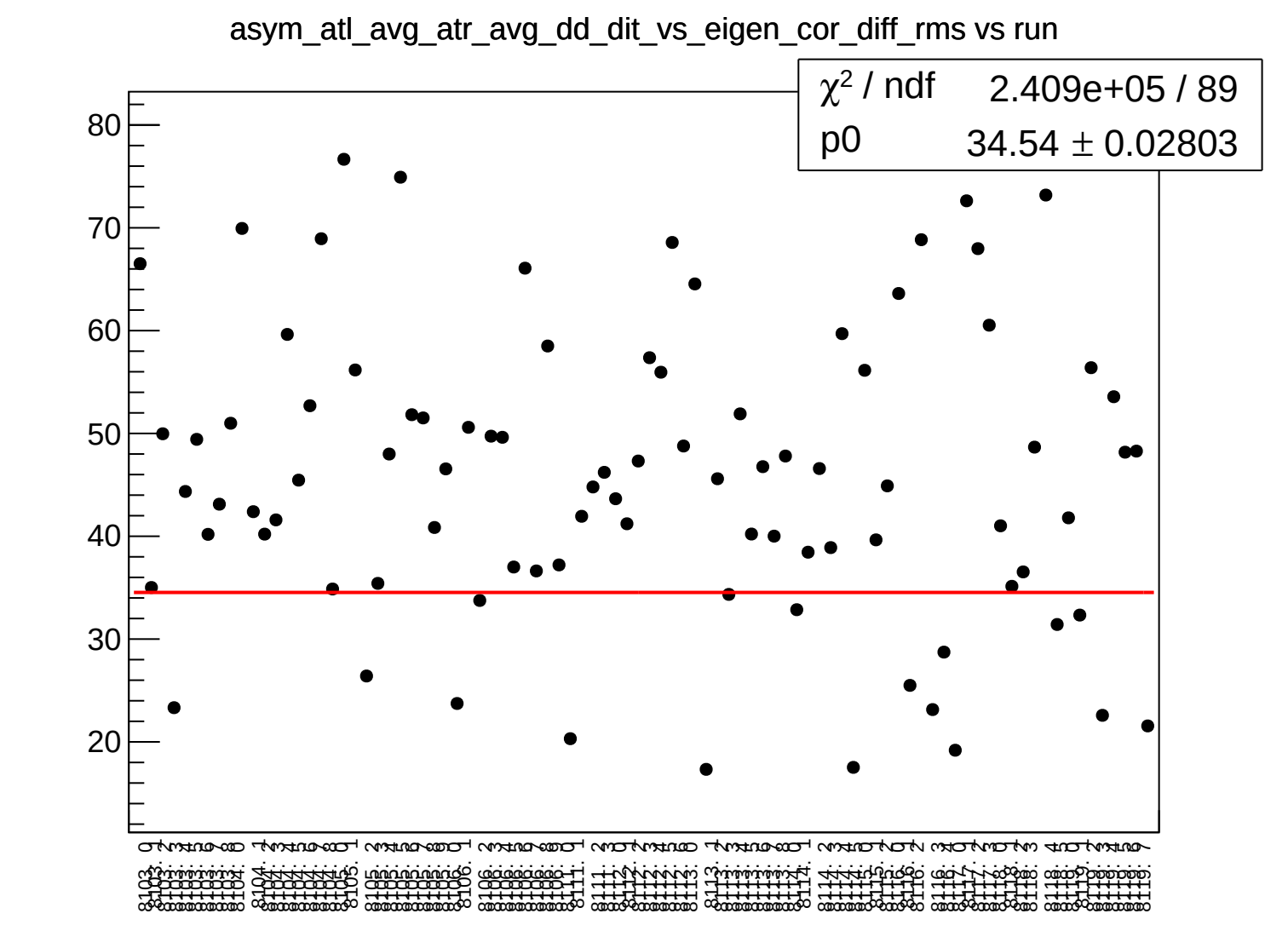

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.496e+06 / 89
p0 2.737e−11 ± 5.338e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

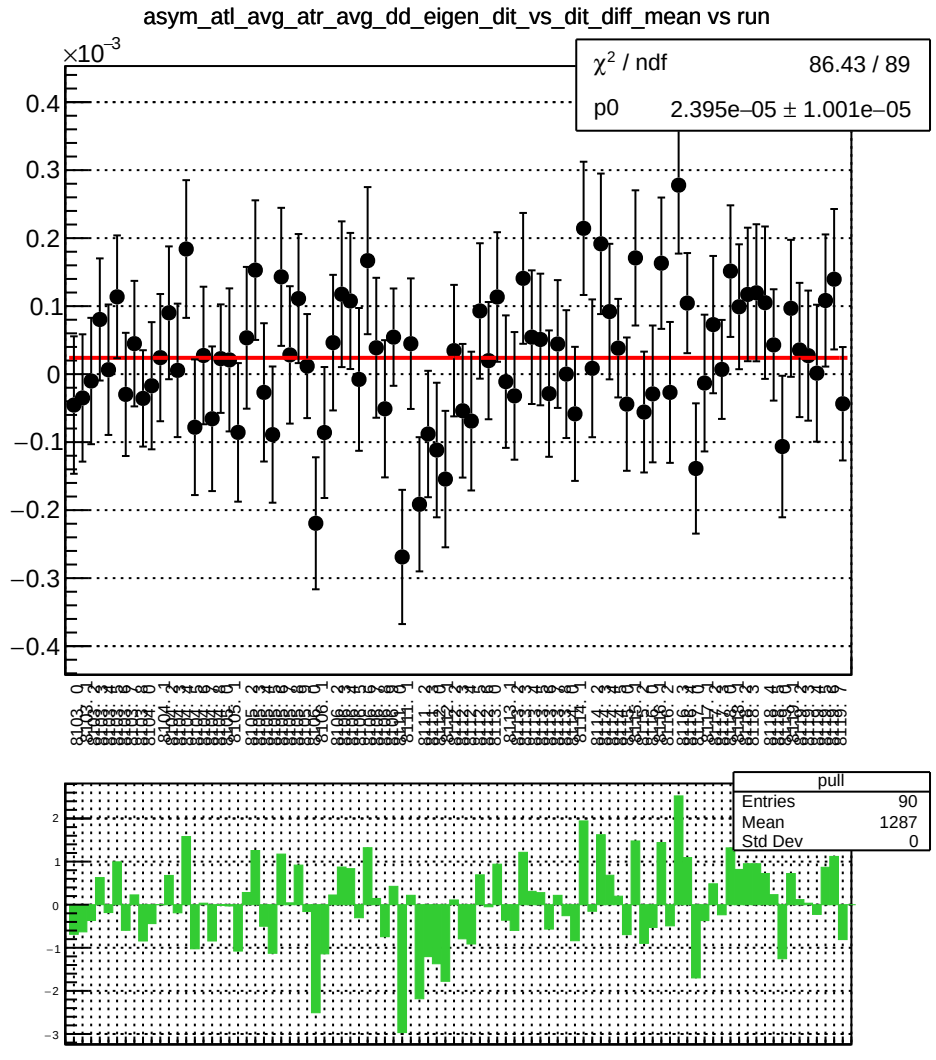

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.79 / 89
p0 −0.04232 ± 0.03964
pull
Entries 90
Mean −88.84
Std Dev 0

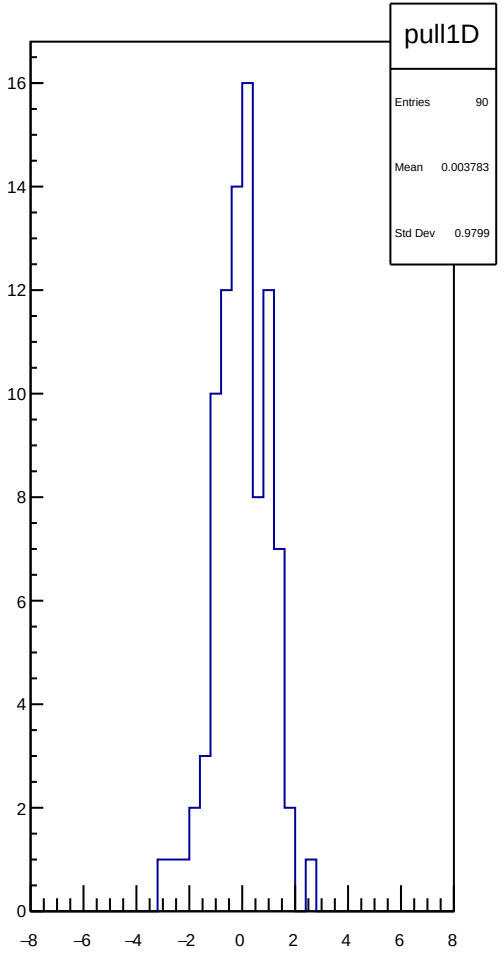

pull1D
Entries 90
Mean −0.02646
Std Dev 0.9645

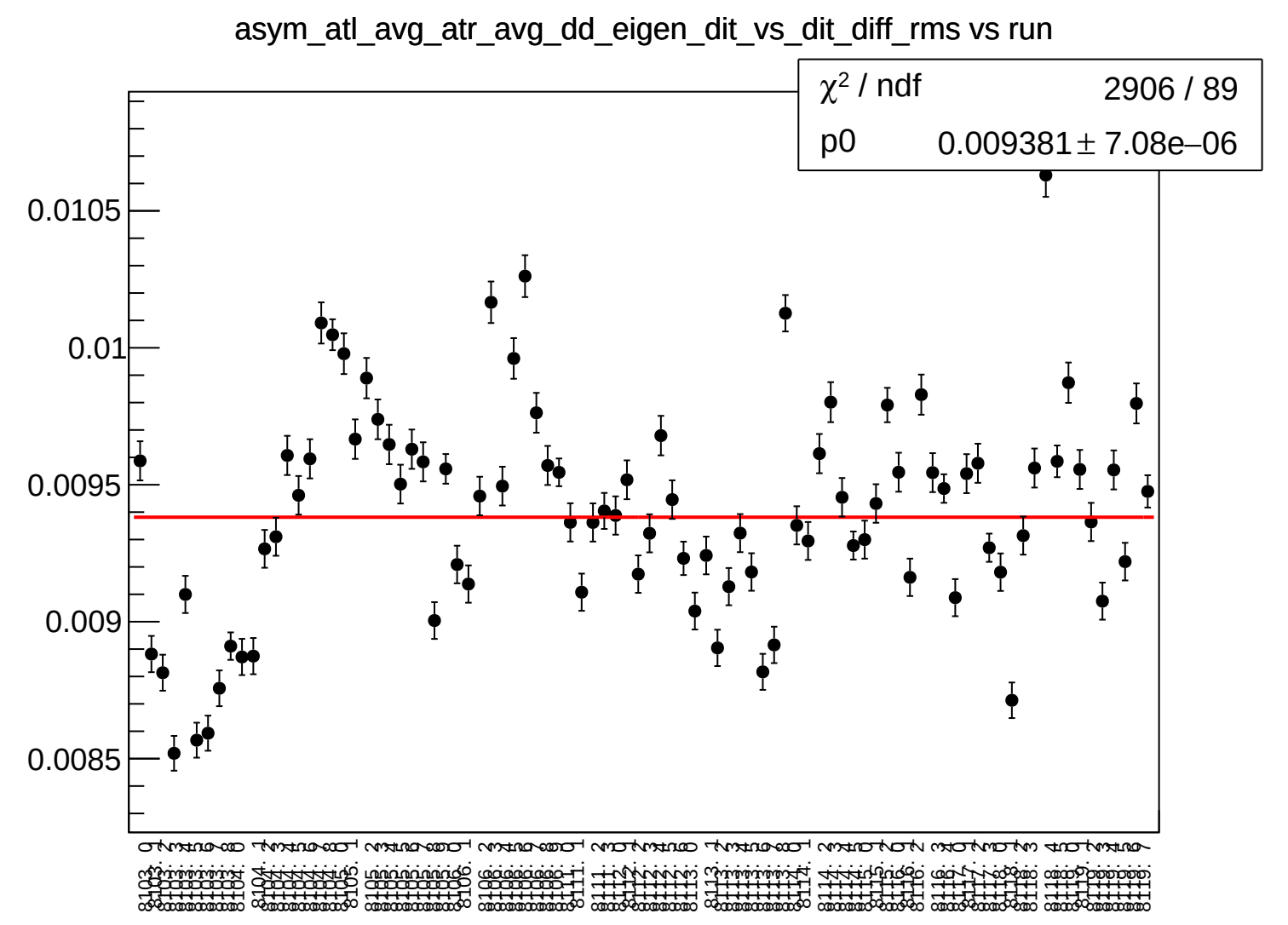

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.409e+05 / 89
p0 34.54 ± 0.02803
80
70
60
50
40
30
20

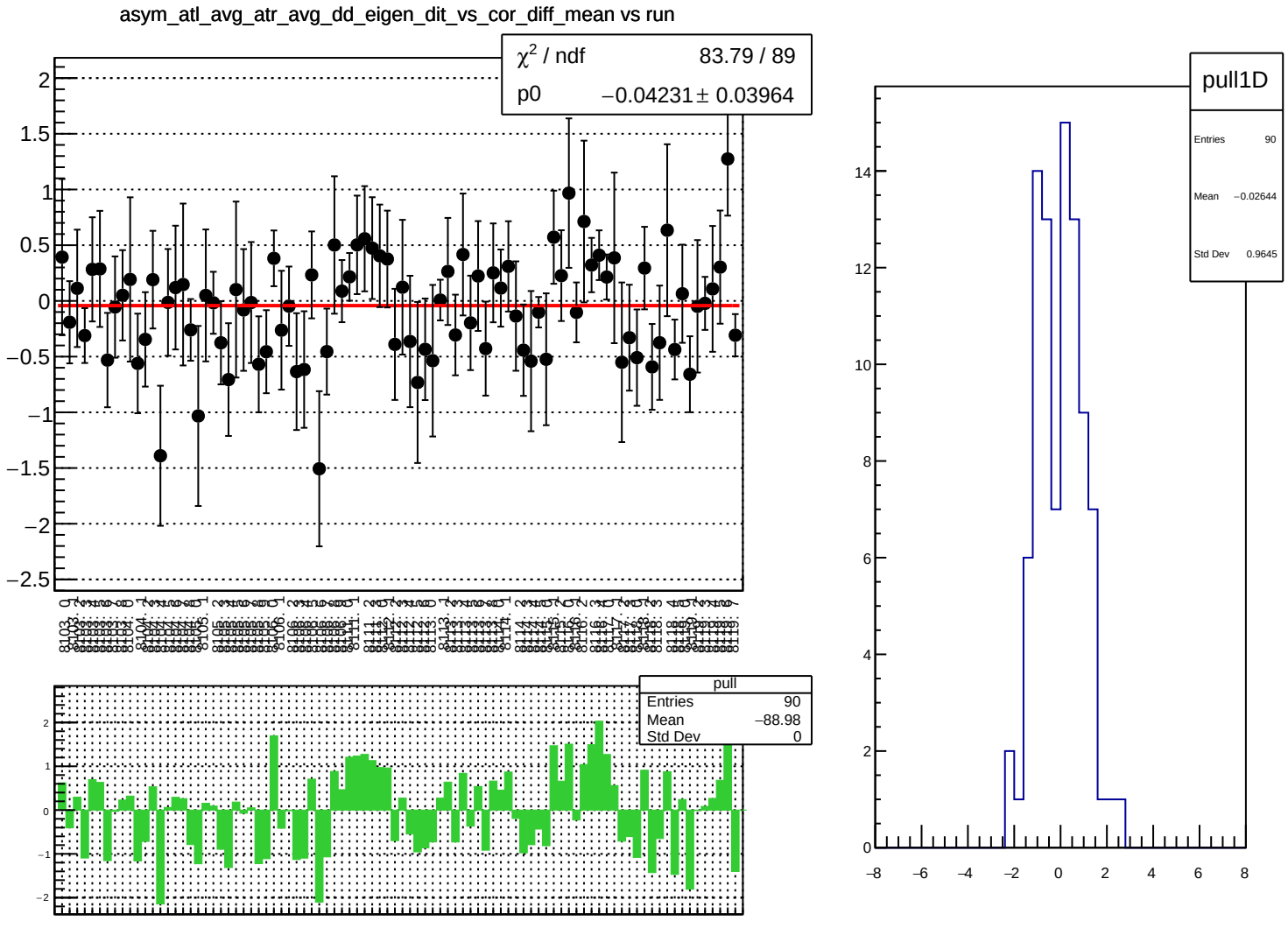

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.79 / 89
p0 −0.04232 ± 0.03964
pull
Entries 90
Mean −88.84
Std Dev 0
pull1D
Entries 90
Mean −0.02646
Std Dev 0.9645

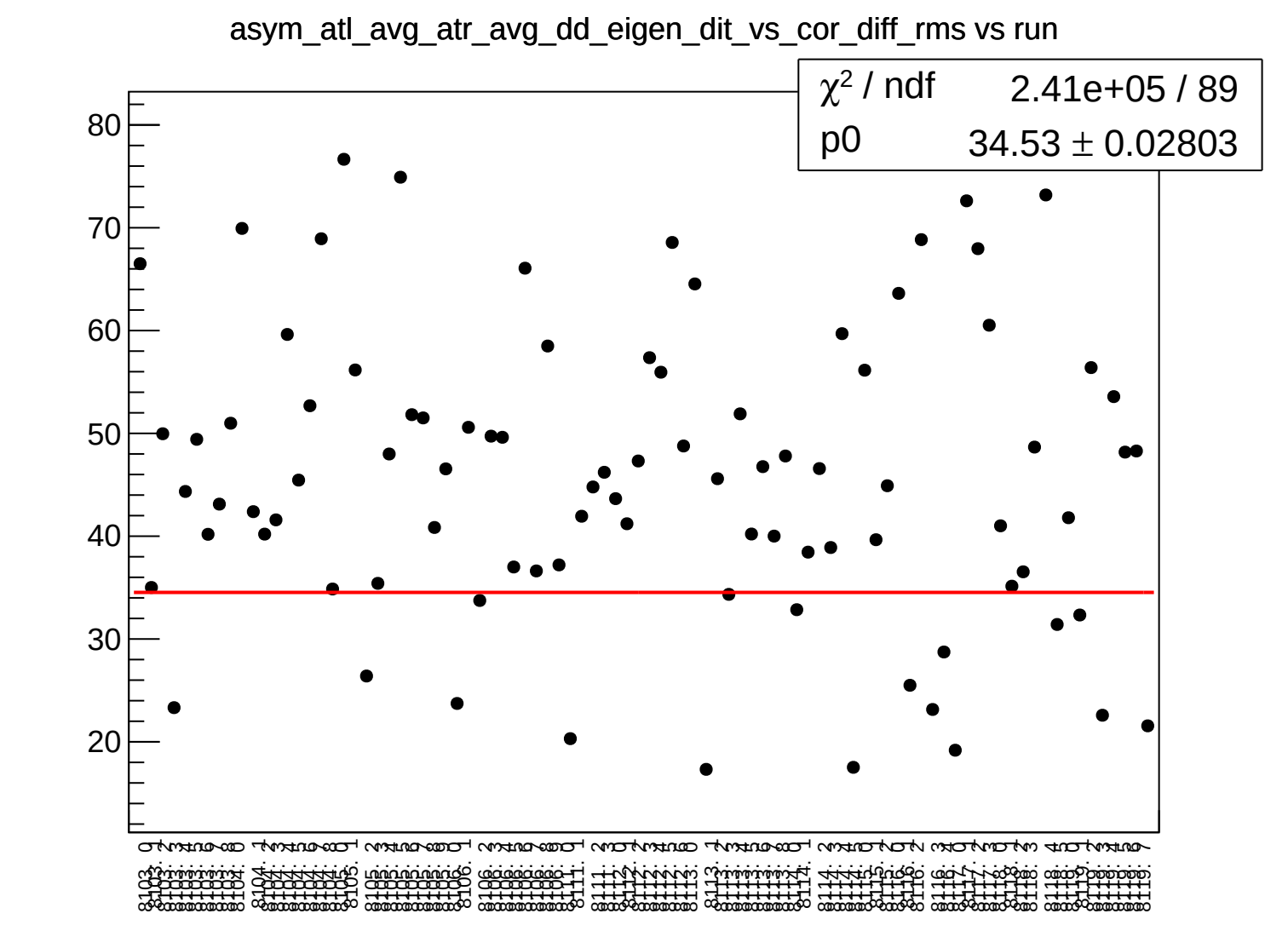

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.409e+05 / 89
p0 34.54 ± 0.02803
80
70
60
50
40
30
20

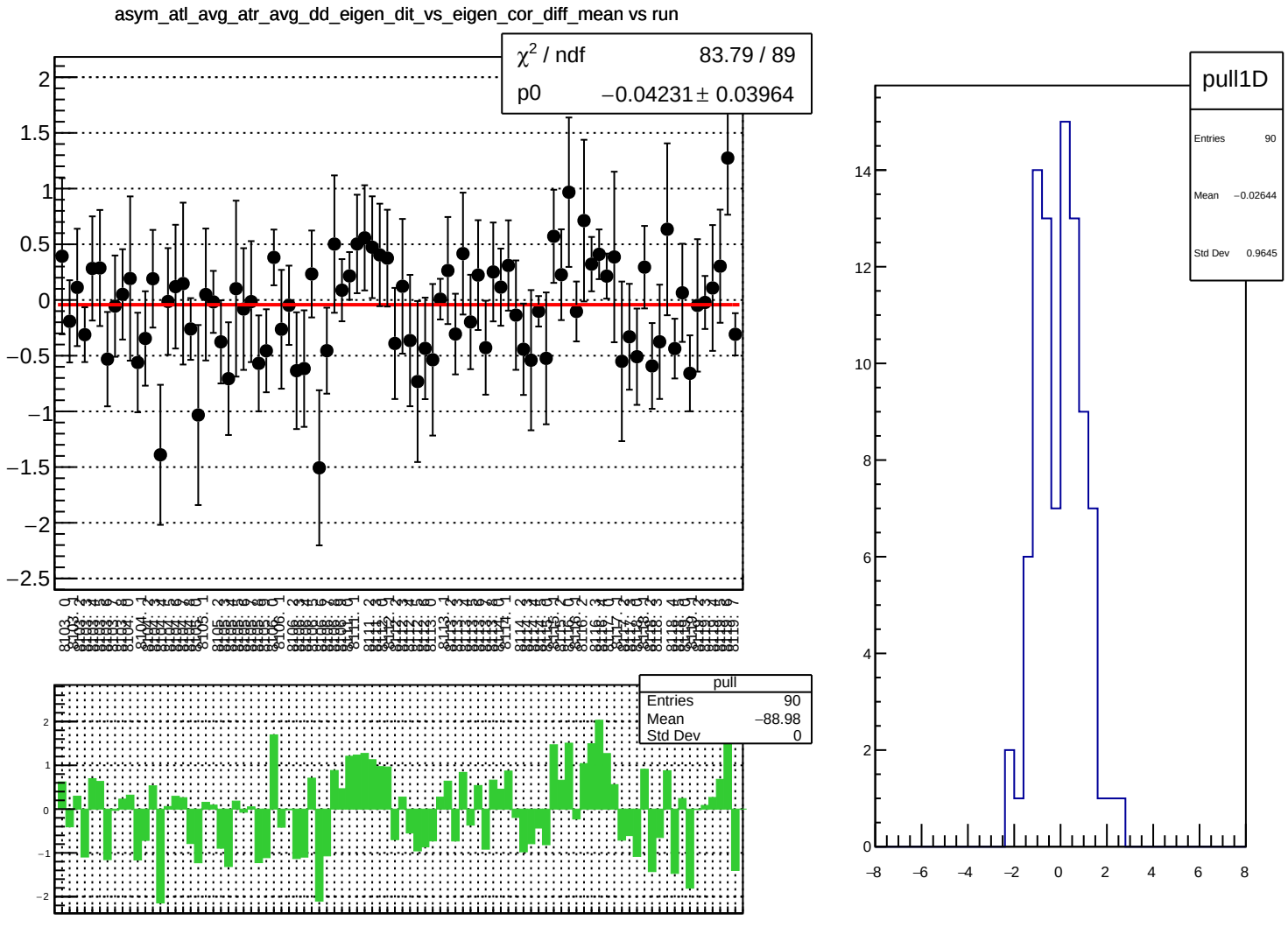

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.43 / 89
p0 2.395e−05 ± 1.001e−05
pull
Entries 90
Mean 1287
Std Dev 0

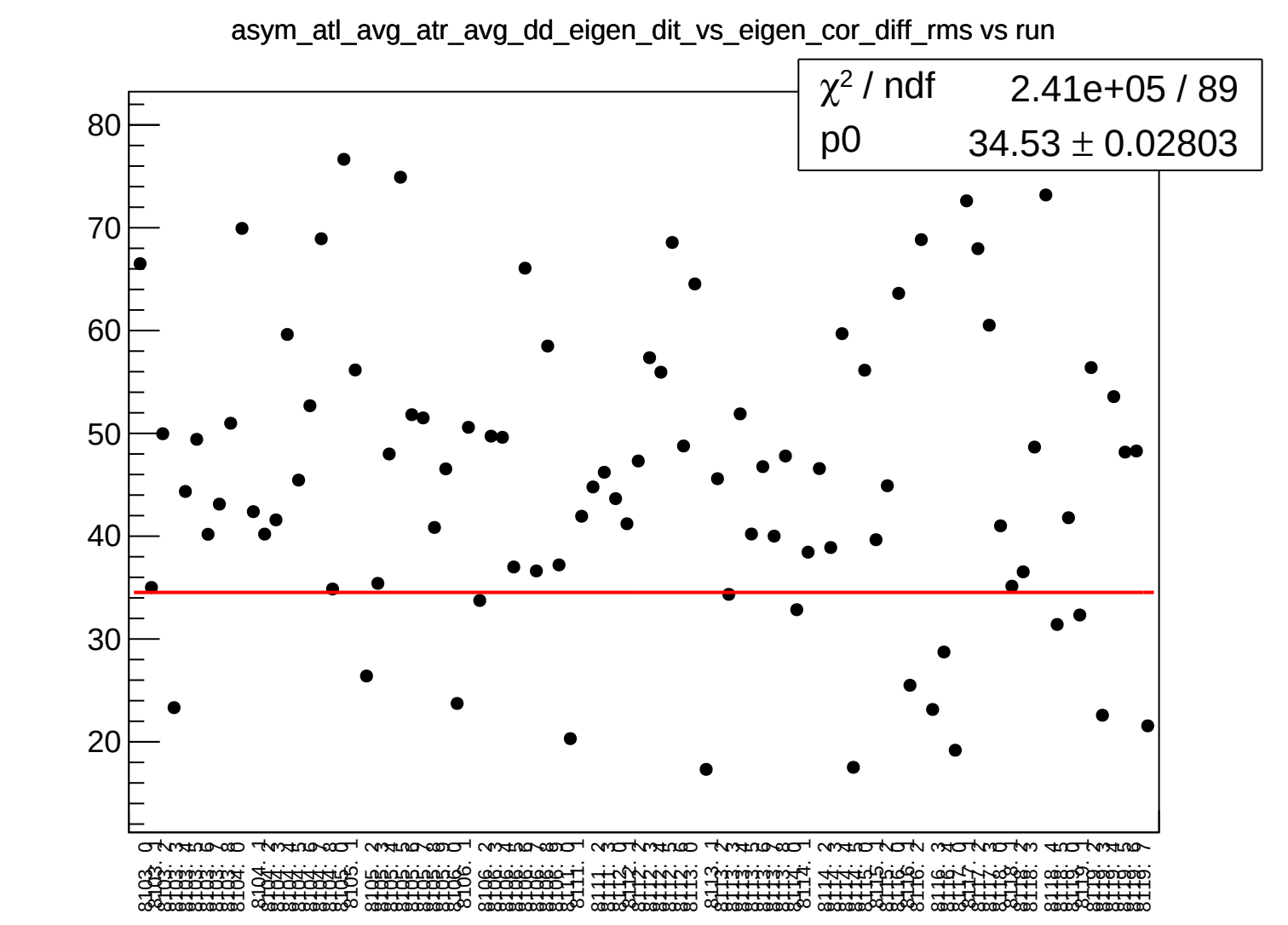

pull1D
Entries 90
Mean 0.003783
Std Dev 0.9799

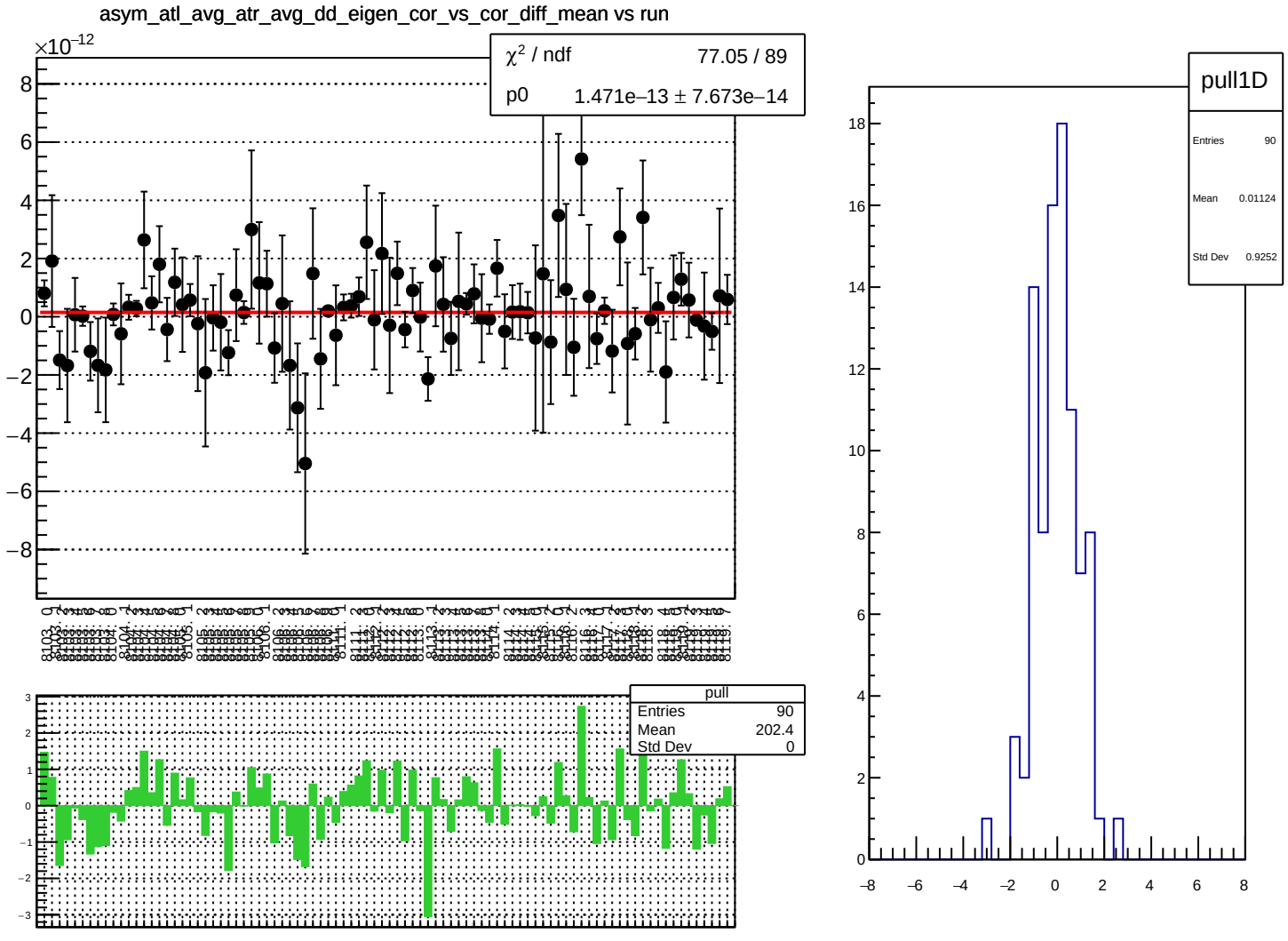

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2906 / 89
p0 0.009381 ± 7.08e–06
0.0105
0.01
0.0095
0.009
0.0085

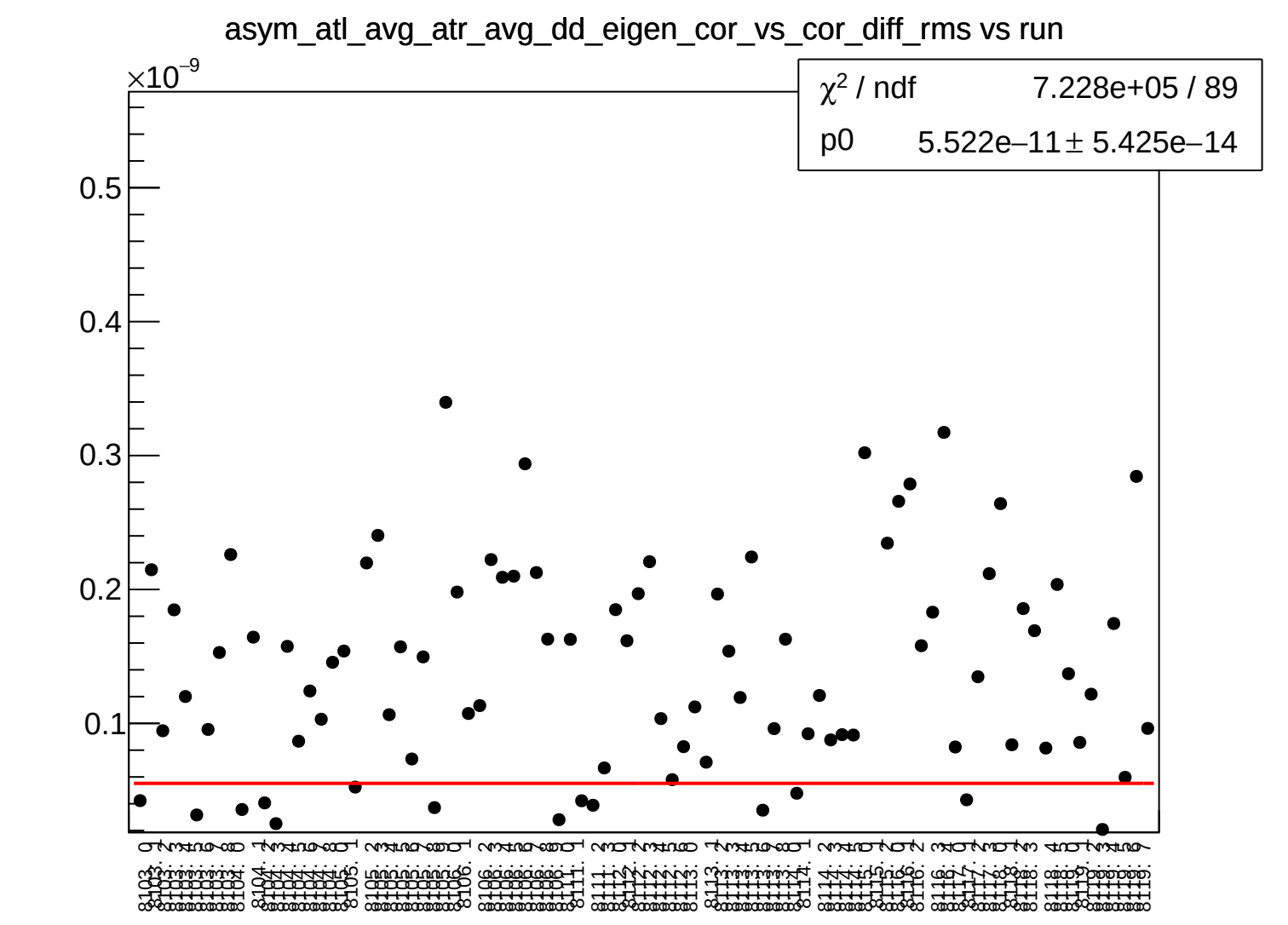

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.79 / 89
p0 −0.04231 ± 0.03964
pull
Entries 90
Mean −88.98
Std Dev 0
pull1D
Entries 90
Mean −0.02644
Std Dev 0.9645

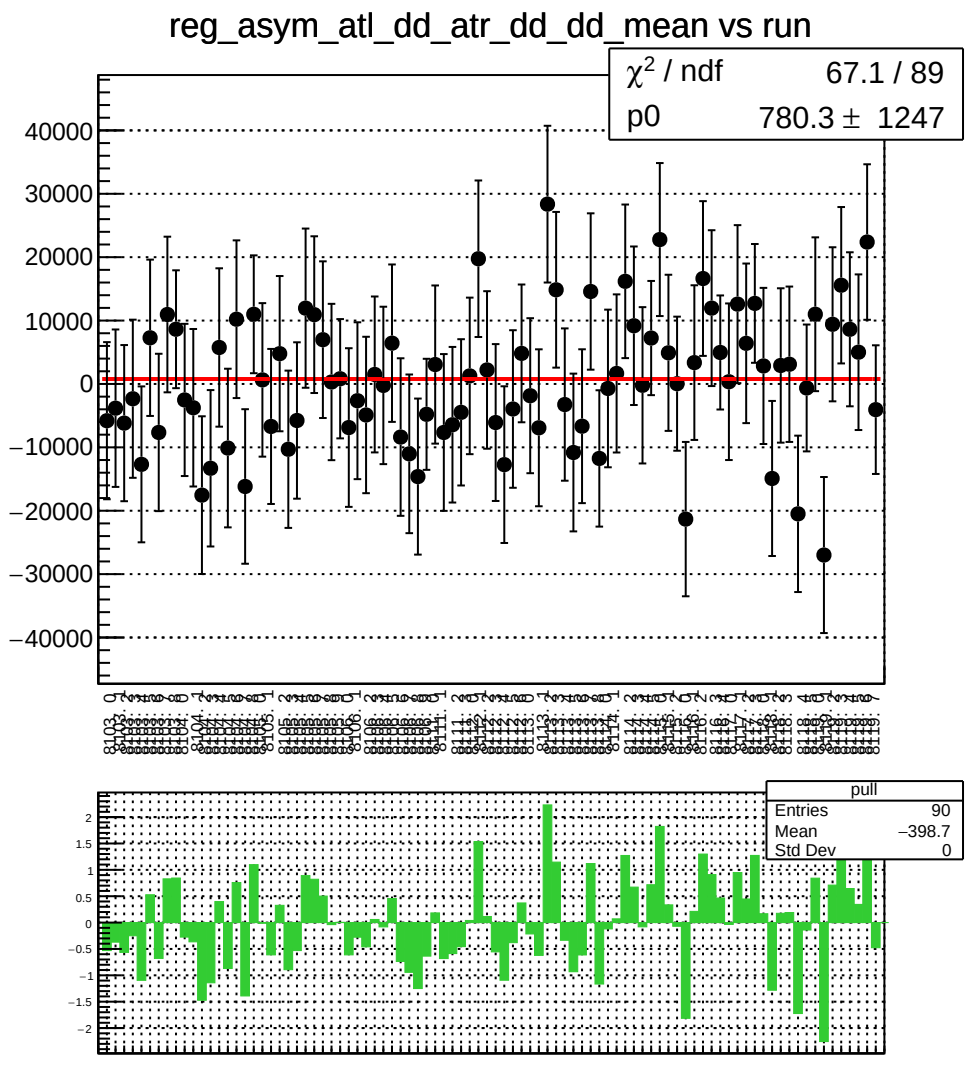

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.41e+05 / 89
p0 34.53 ± 0.02803
80
70
60
50
40
30
20

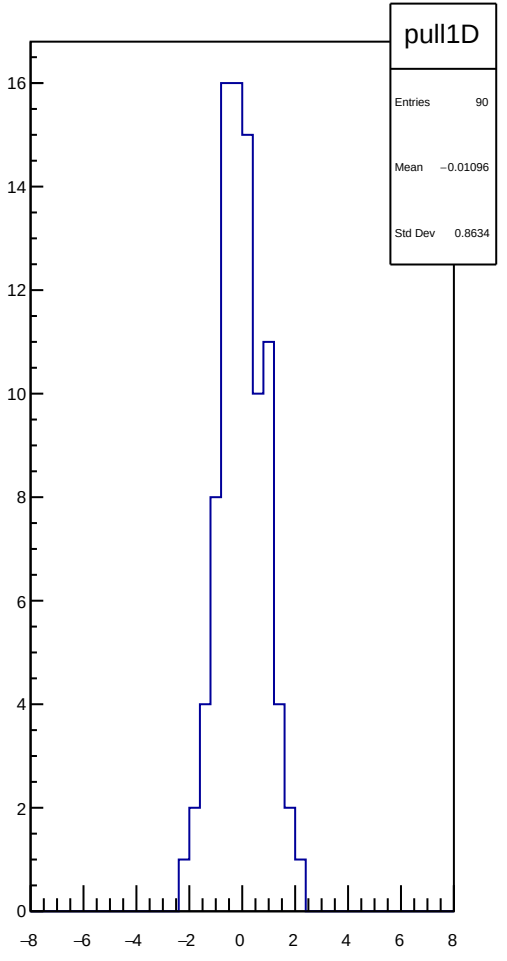

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.79 / 89
p0 −0.04231 ± 0.03964
pull
Entries 90
Mean −88.98
Std Dev 0
pull1D
Entries 90
Mean −0.02644
Std Dev 0.9645


asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.41e+05 / 89
p0 34.53 ± 0.02803
80
70
60
50
40
30
20

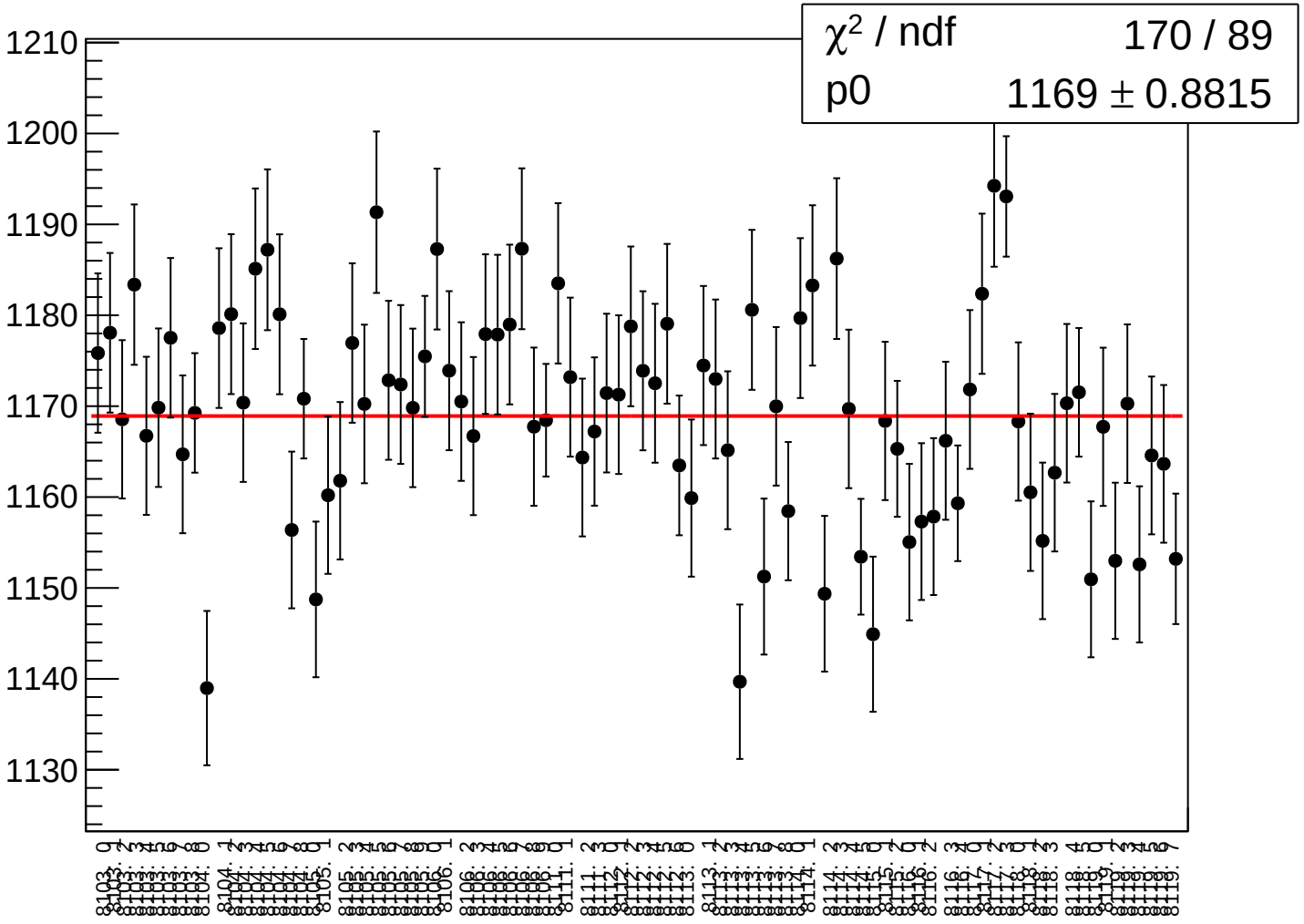

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.05 / 89
p0 1.471e−13 ± 7.673e−14
pull
Entries 90
Mean 202.4
Std Dev 0
pull1D
Entries 90
Mean 0.01124
Std Dev 0.9252

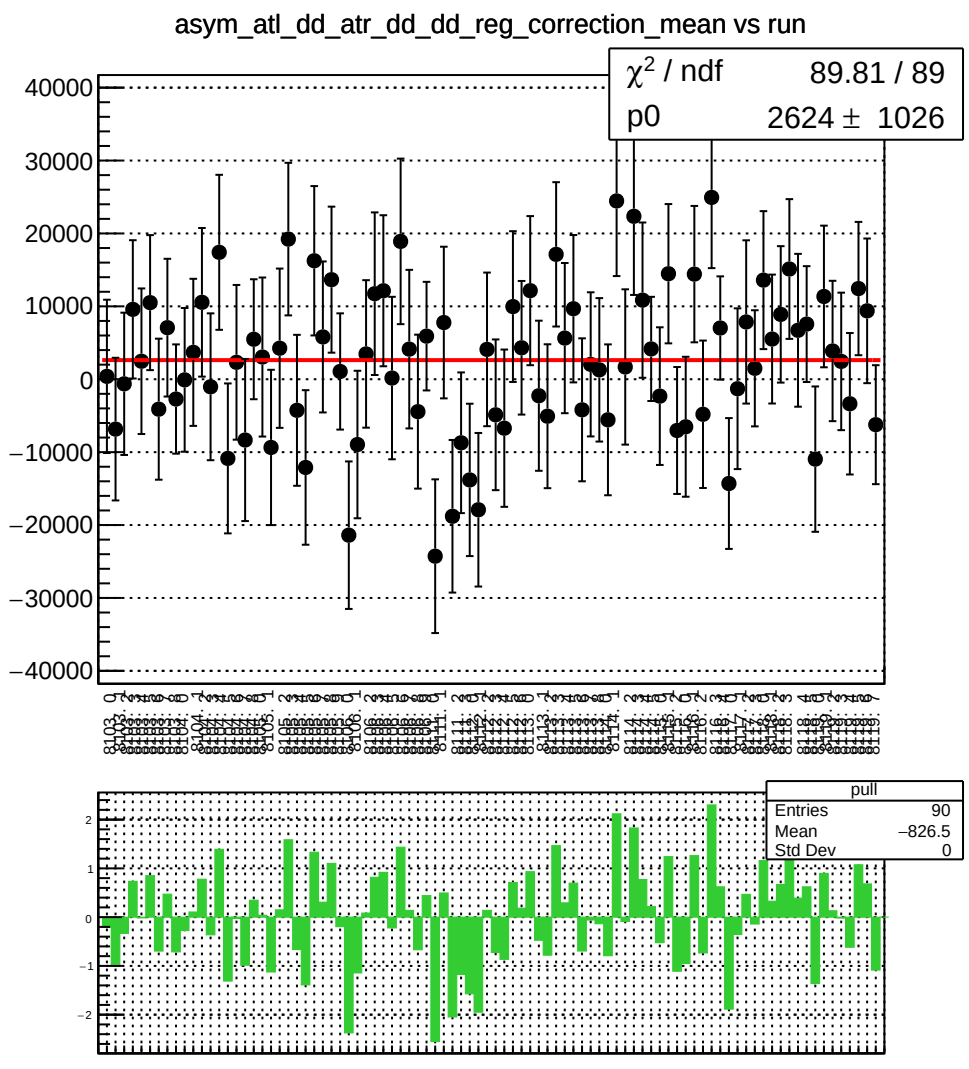

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.228e+05 / 89
p0 5.522e−11 ± 5.425e−14
0.5
0.4
0.3
0.2
0.1

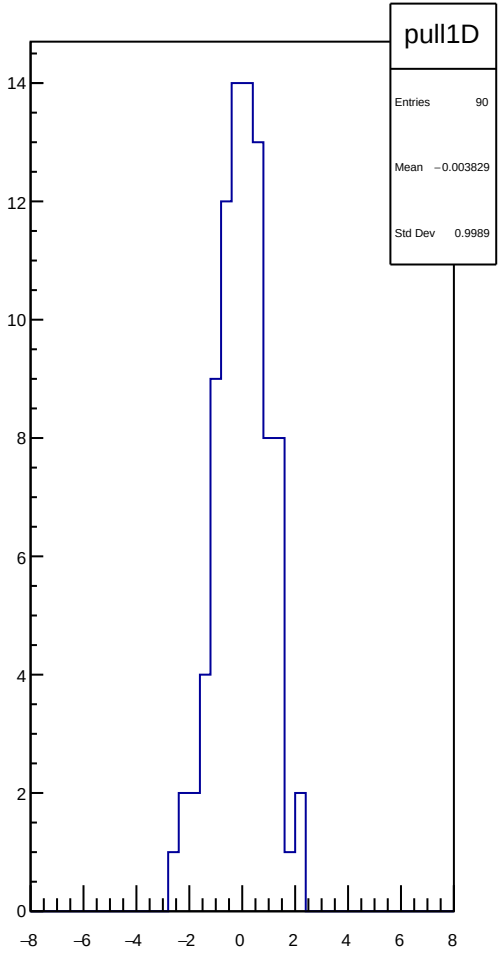

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 67.1 / 89
p0 780.3 ± 1247
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −398.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

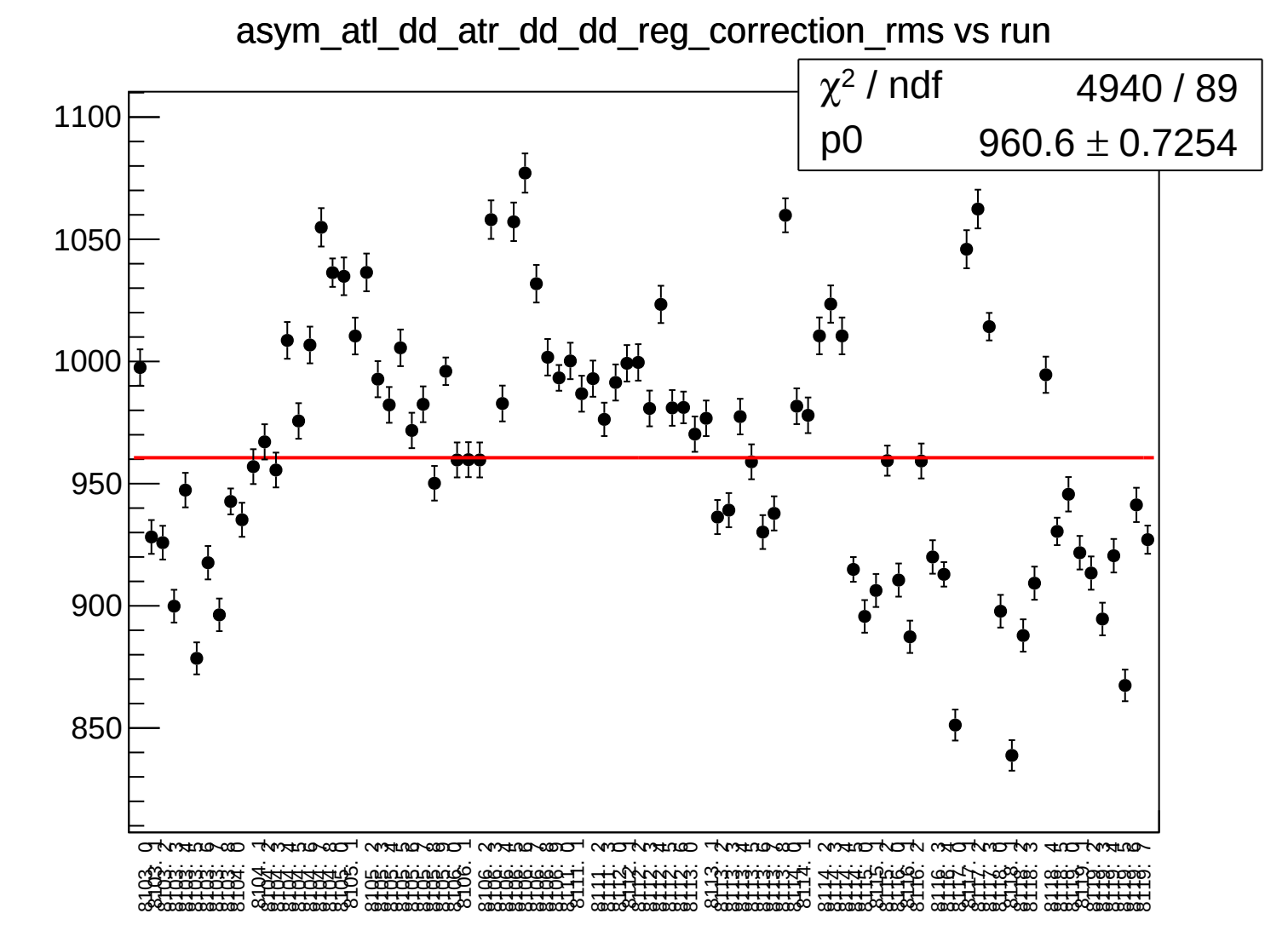

pull1D
Entries 90
Mean −0.01096
Std Dev 0.8634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

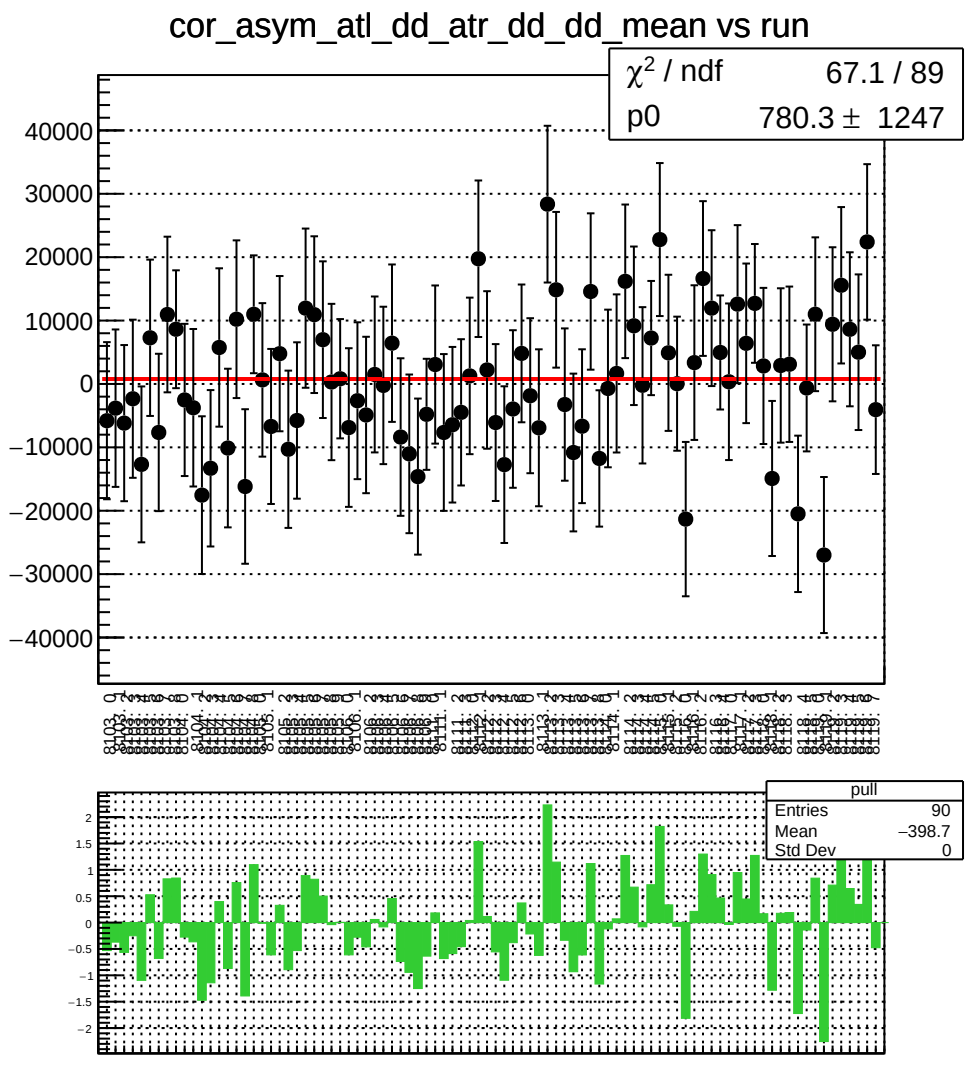
reg_asym_atl_dd_atr_dd_dd_rms vs run

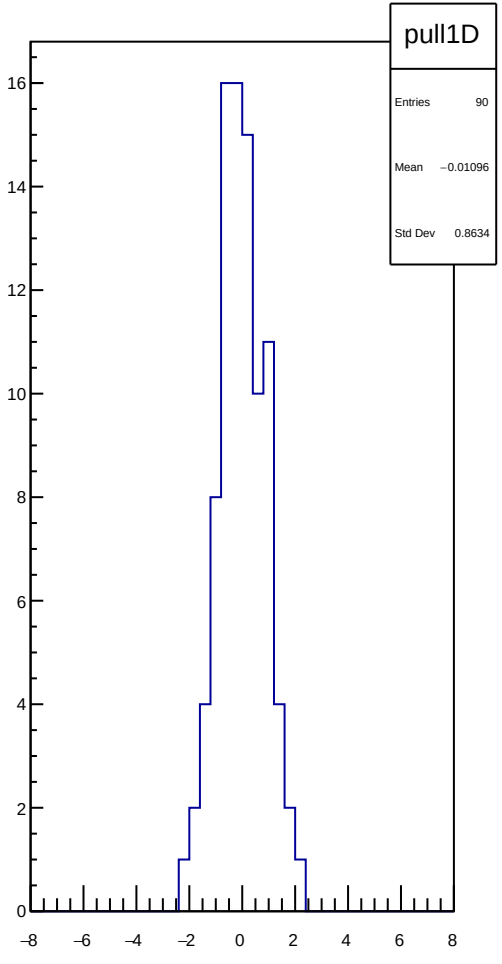


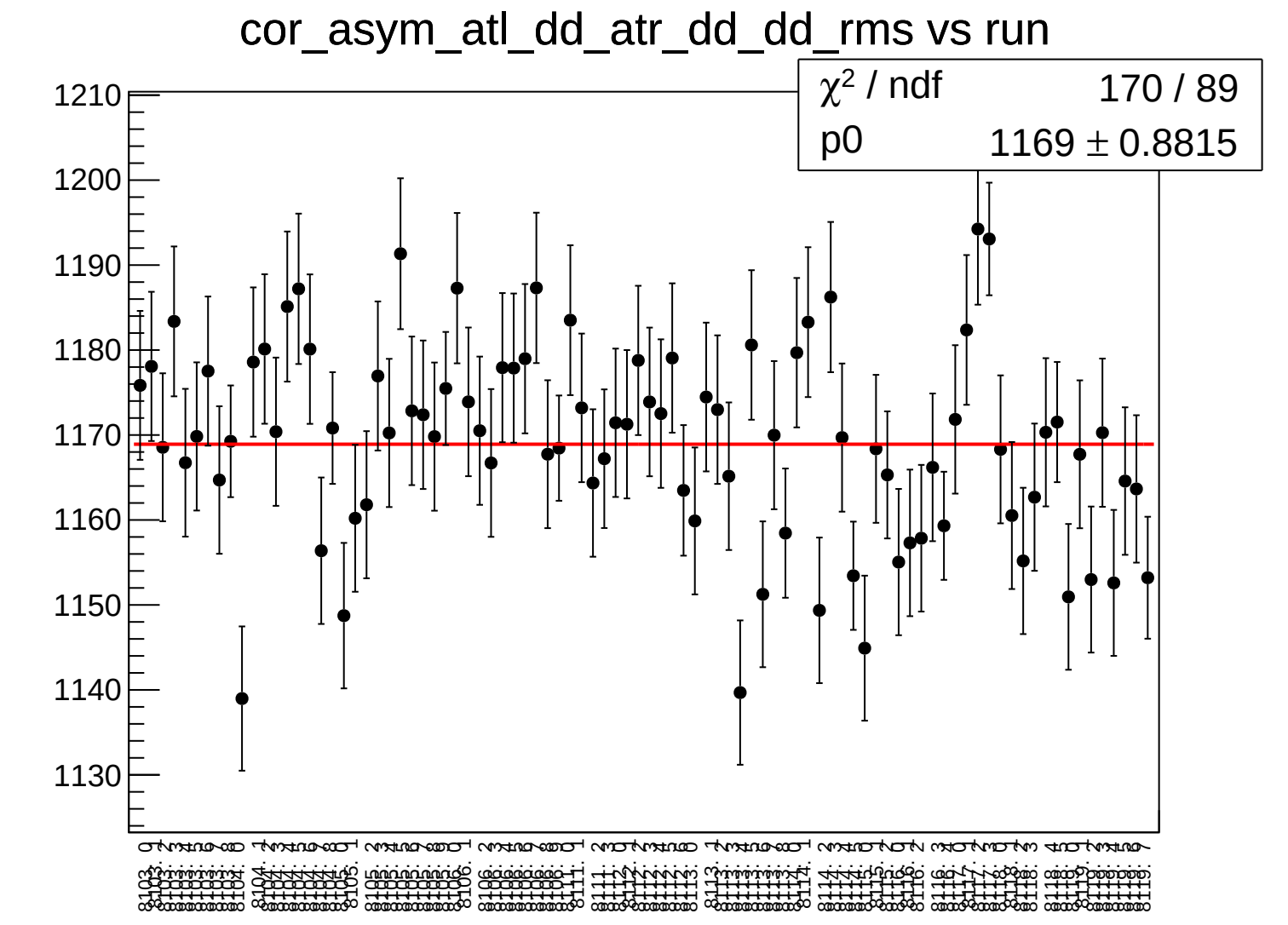

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 89.81 / 89
p0 2624 ± 1026
pull
Entries 90
Mean −826.5
Std Dev 0

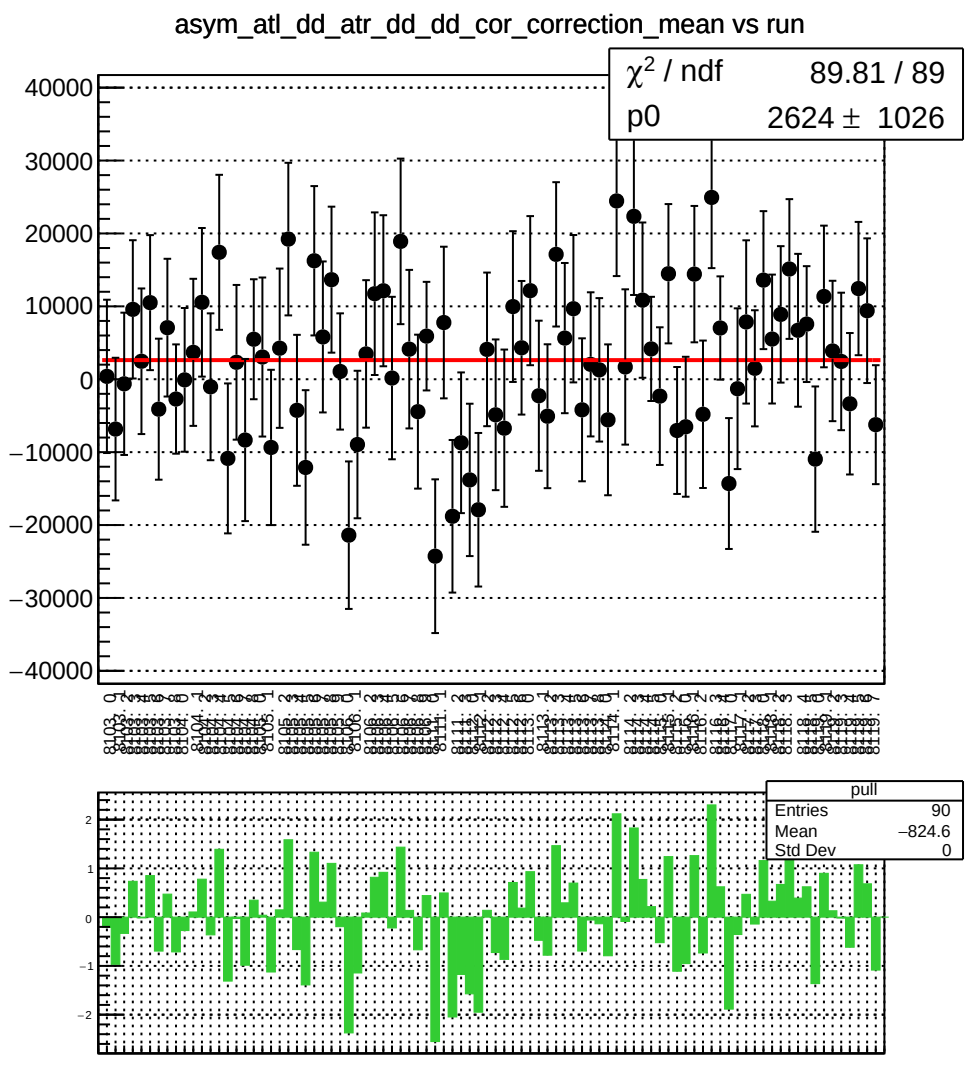

pull1D
Entries 90
Mean −0.003829
Std Dev 0.9989

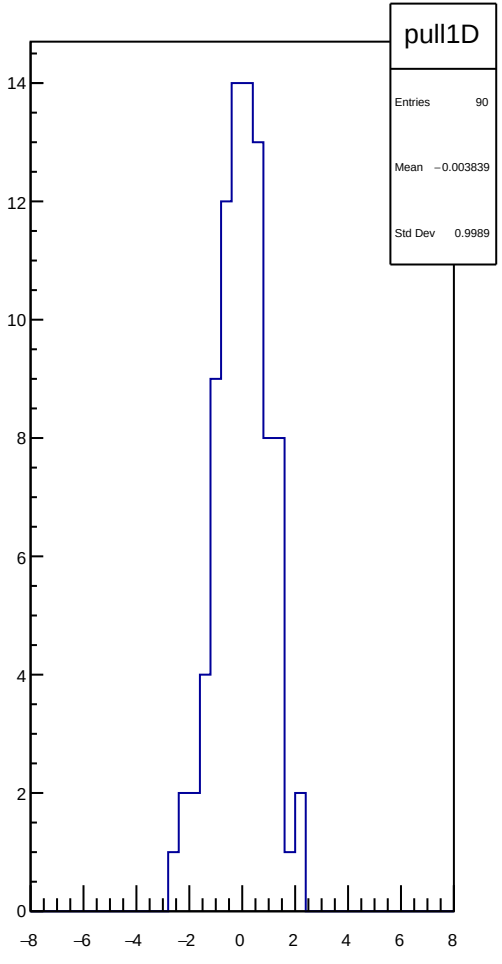

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4940 / 89
p0 960.6 ± 0.7254
1100
1050
1000
950
900
850

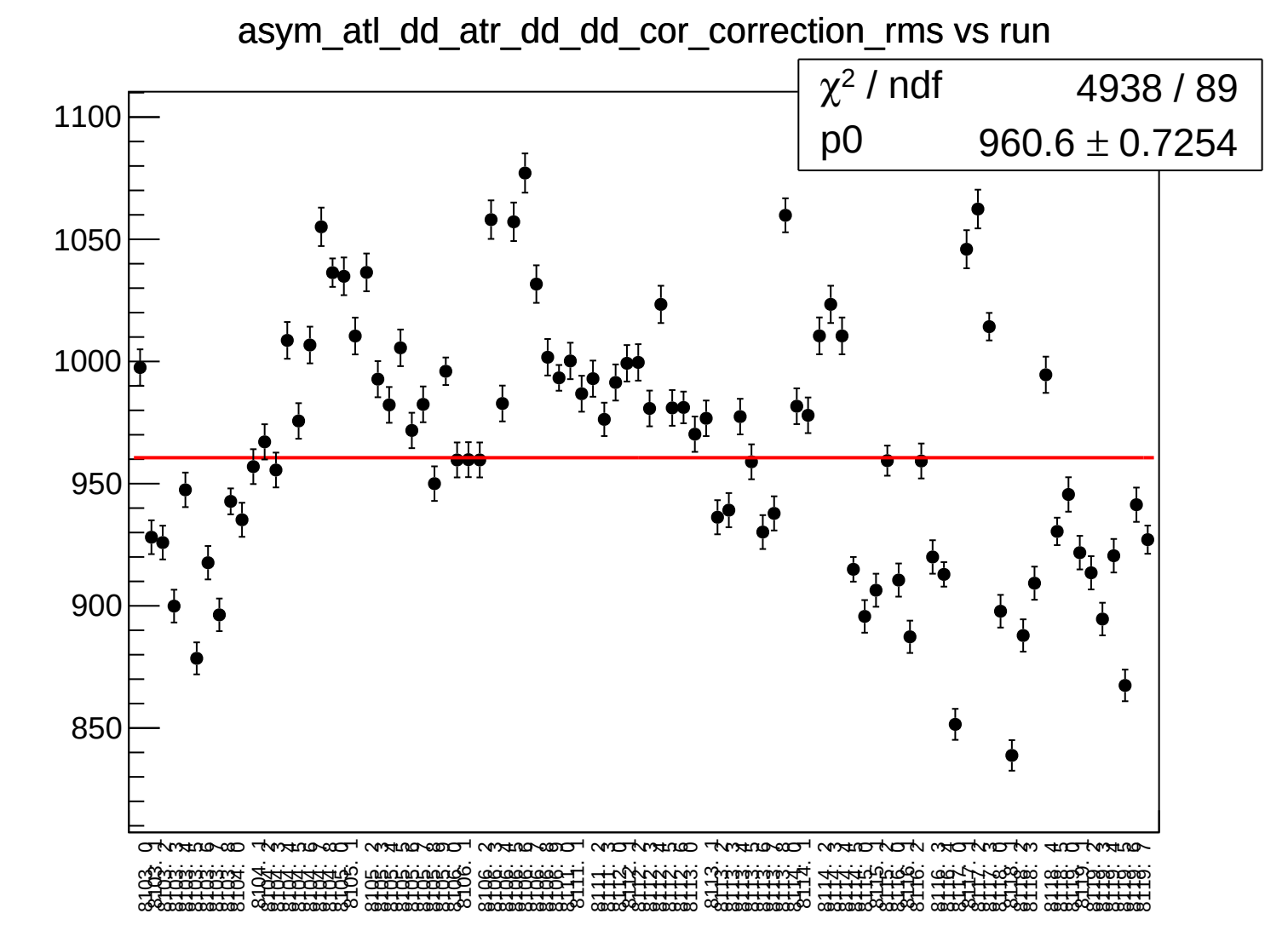

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 67.1 / 89
p0 780.3 ± 1247
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −398.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

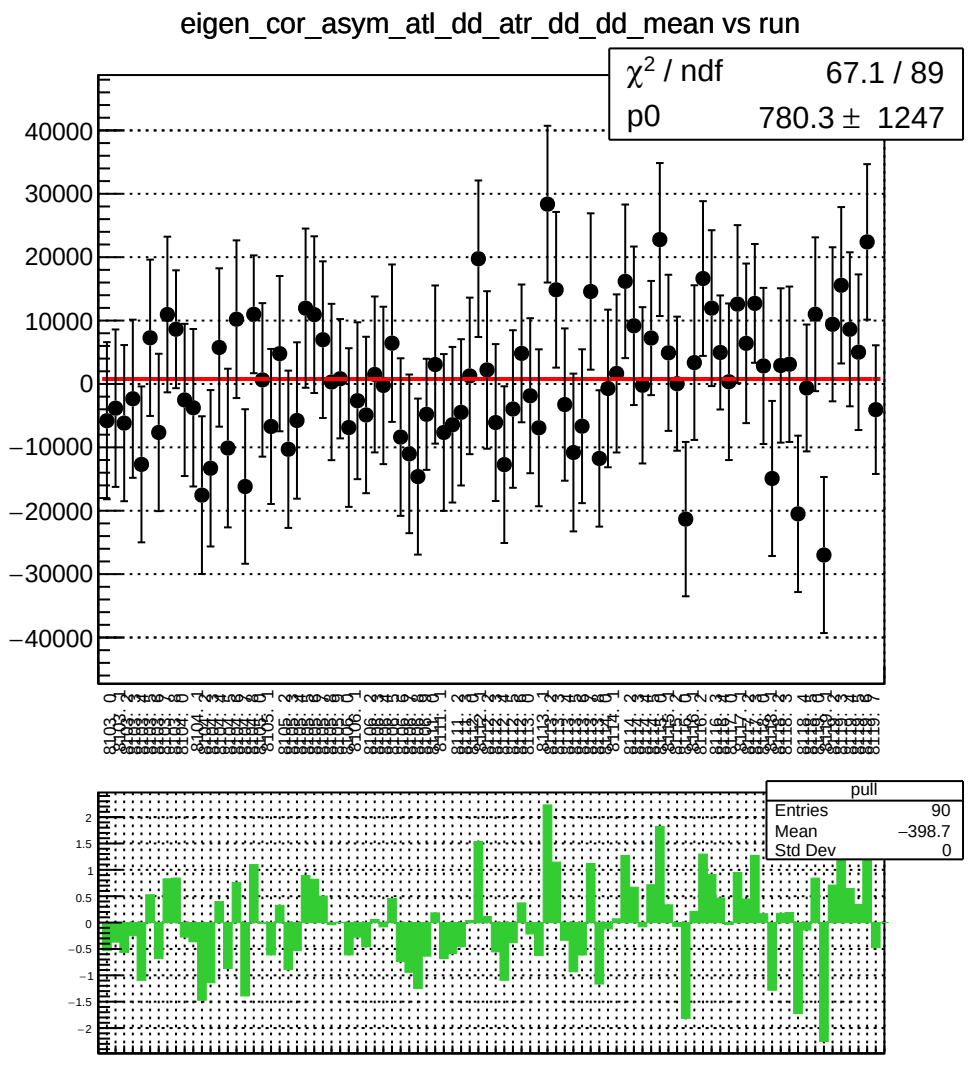

pull1D
Entries 90
Mean −0.01096
Std Dev 0.8634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

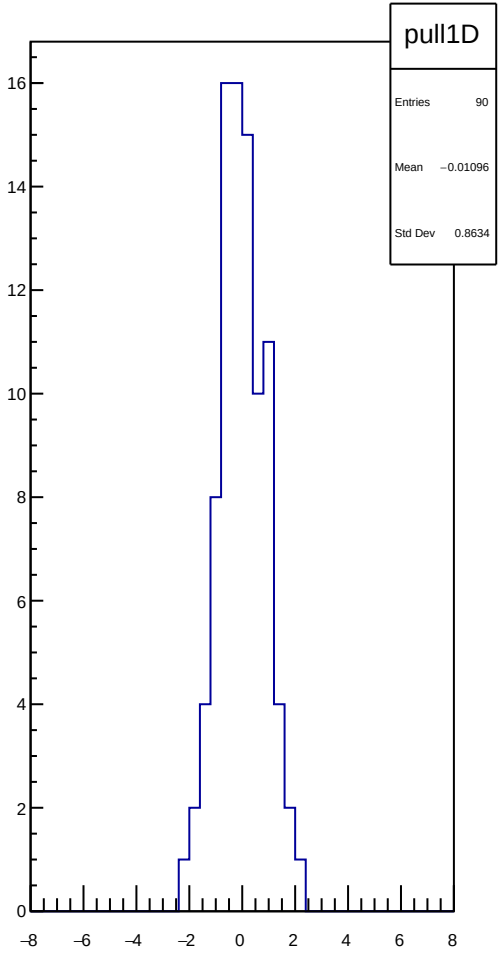

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 170 / 89
p0 1169 ± 0.8815
1210
1200
1190
1180
1170
1160
1150
1140
1130

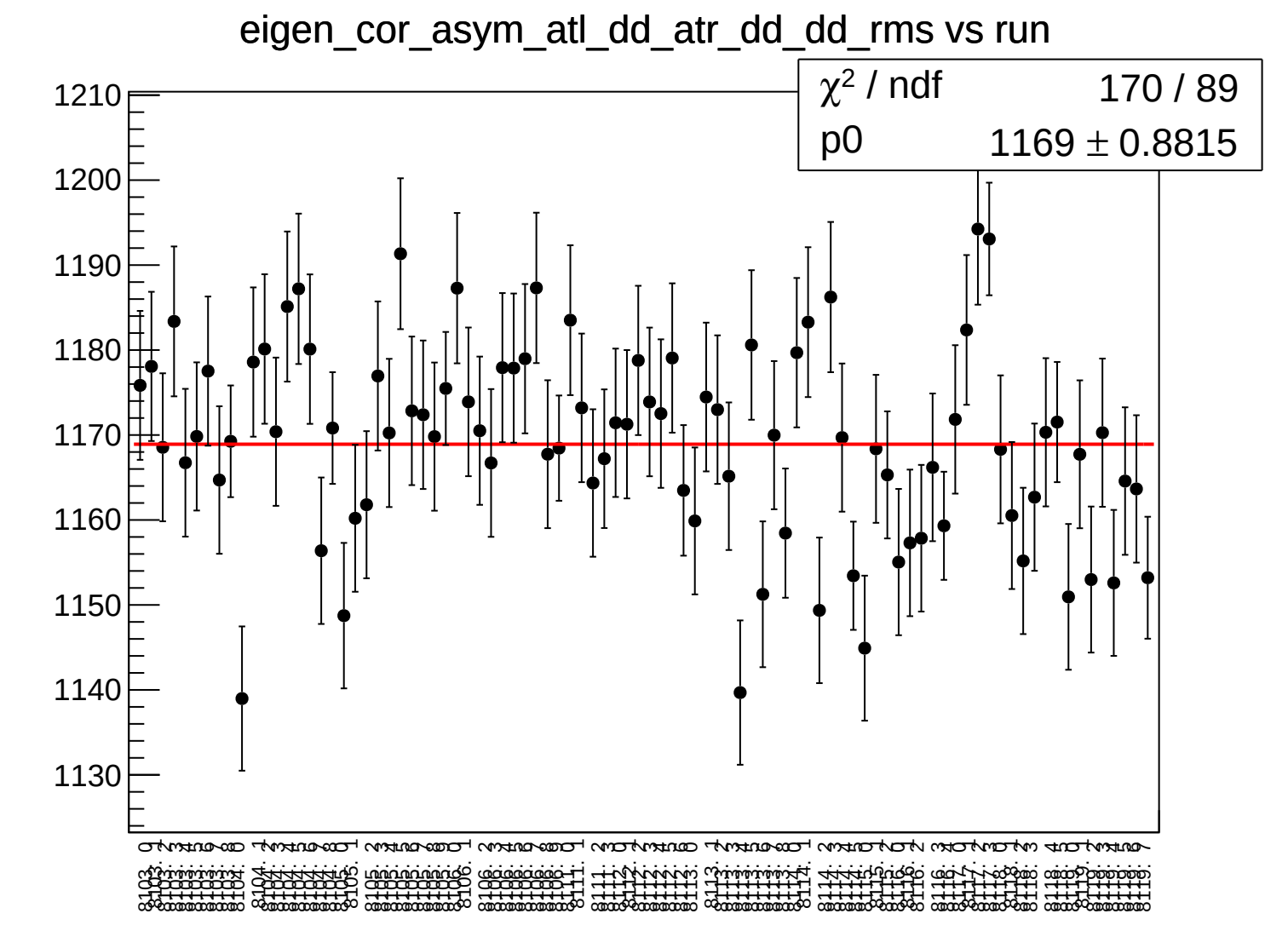

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 89.81 / 89
p0 2624 ± 1026
pull
Entries 90
Mean −824.6
Std Dev 0

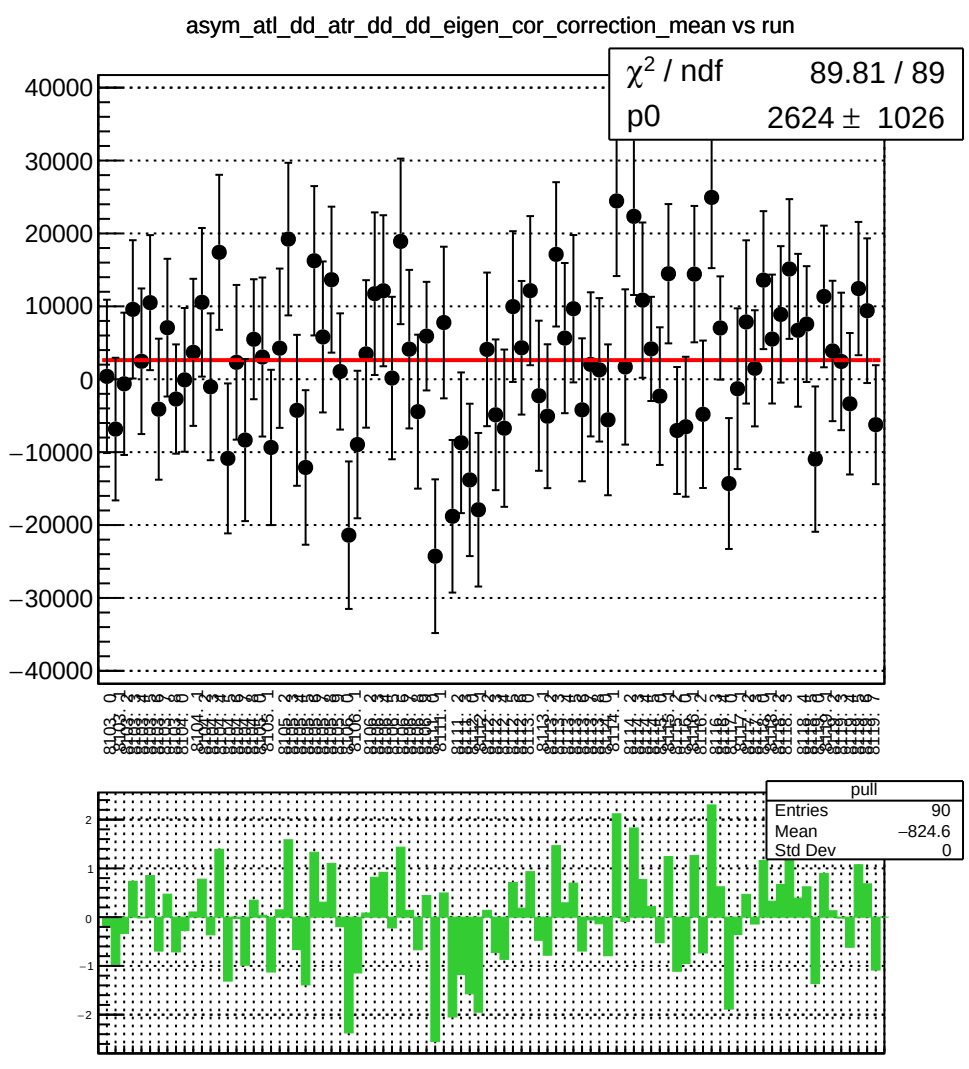

pull1D
Entries 90
Mean −0.003839
Std Dev 0.9989

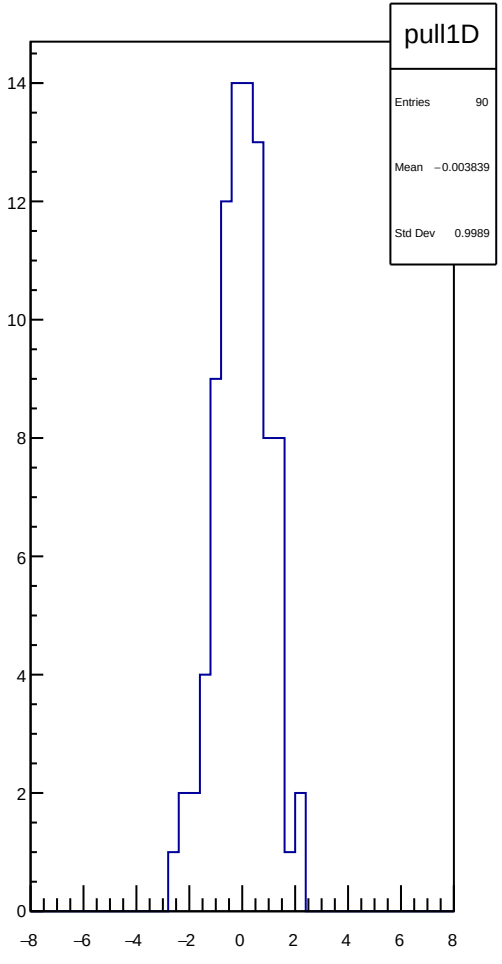

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 4938 / 89
p0 960.6 ± 0.7254
1100
1050
1000
950
900
850

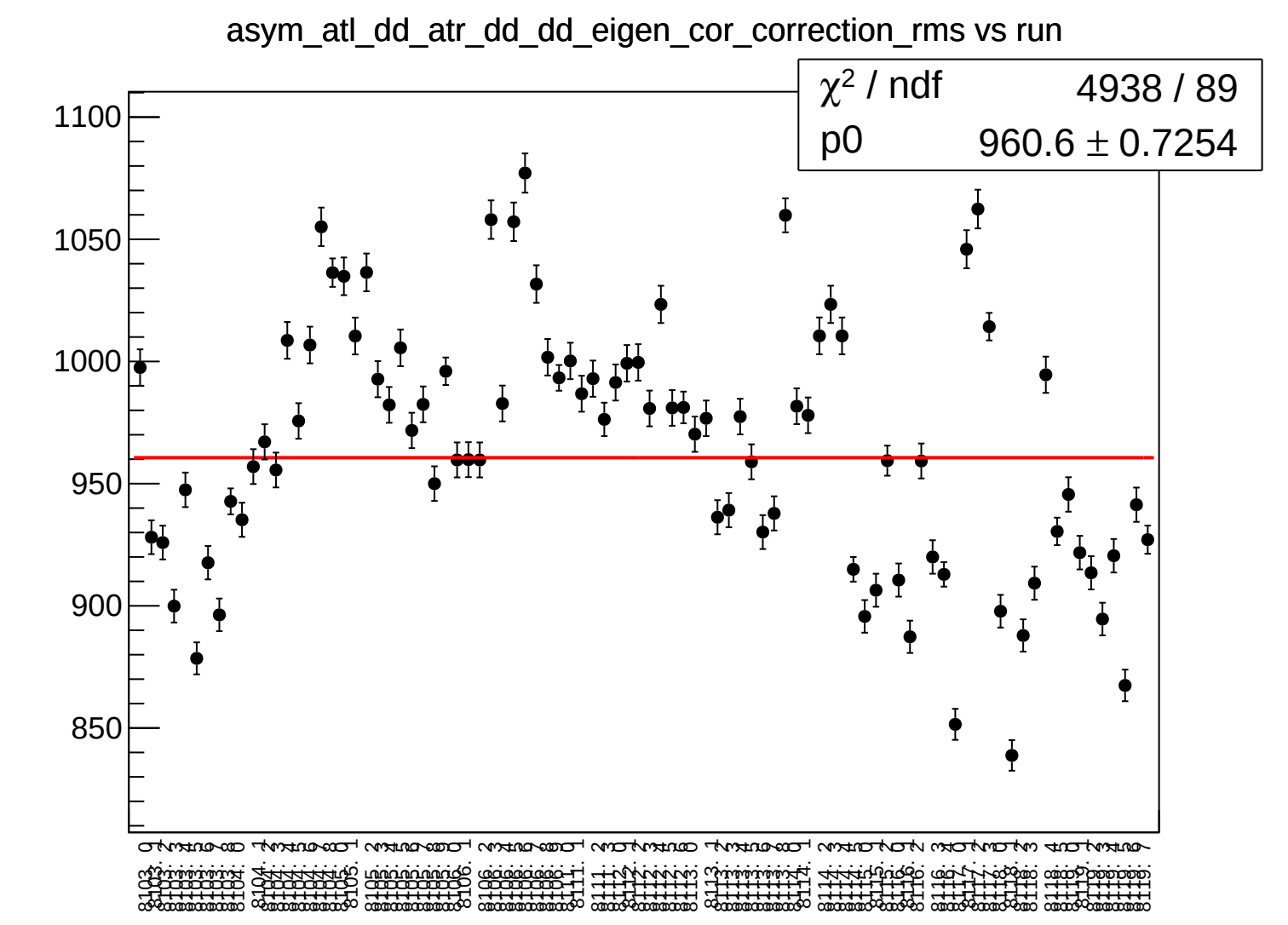

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 67.1 / 89
p0 780.3 ± 1247
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −398.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

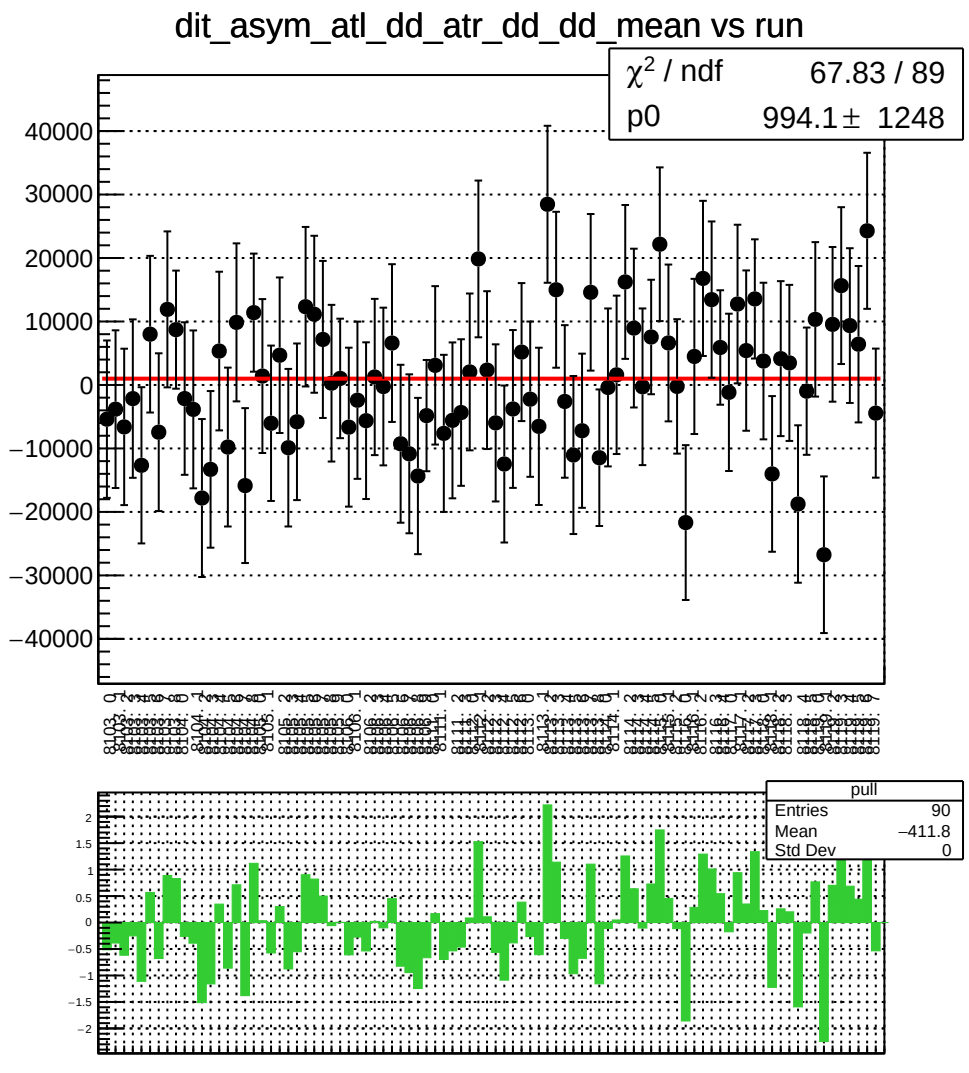

pull1D
Entries 90
Mean −0.01096
Std Dev 0.8634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

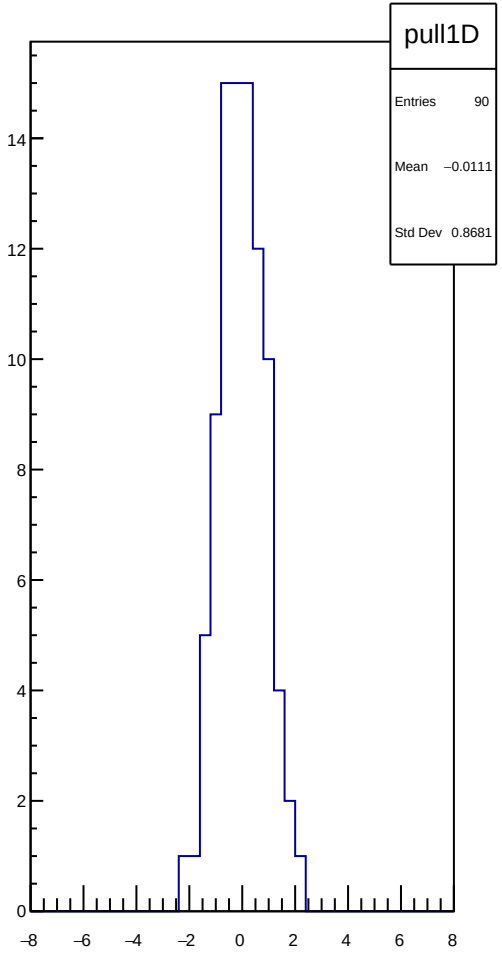

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 170 / 89
p0 1169 ± 0.8815
1210
1200
1190
1180
1170
1160
1150
1140
1130

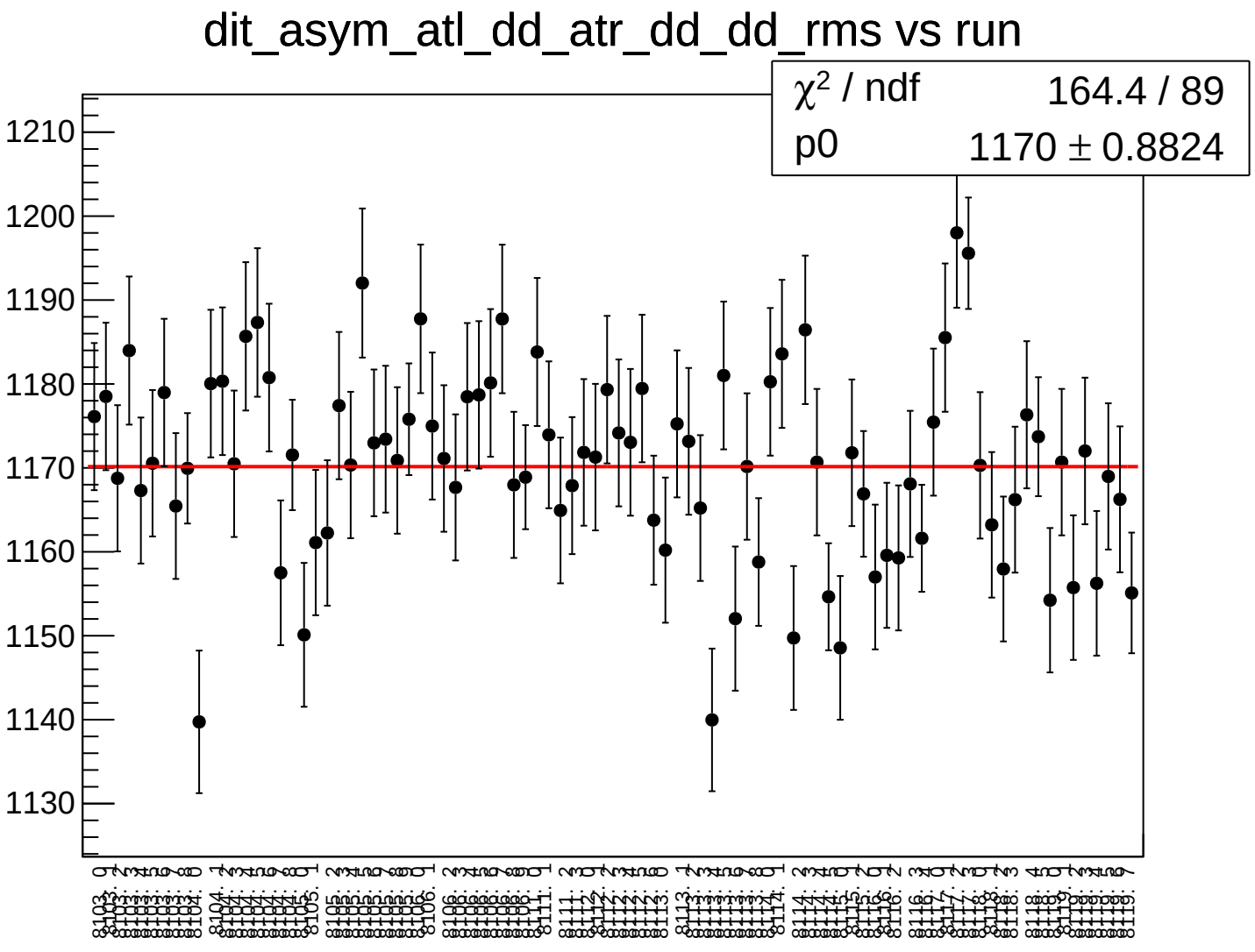

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.81 / 89
p0 2624 ± 1026
pull
Entries 90
Mean −824.6
Std Dev 0

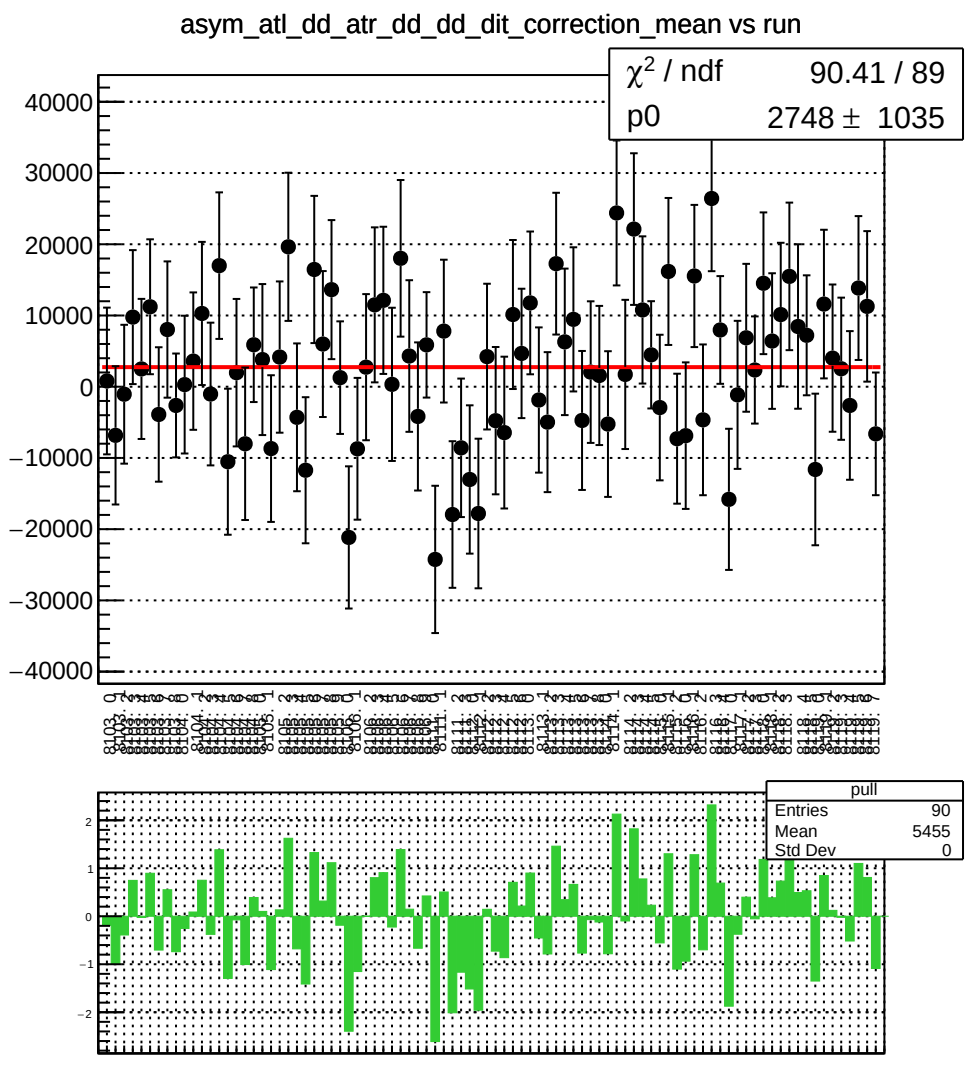

pull1D
Entries 90
Mean −0.003839
Std Dev 0.9989

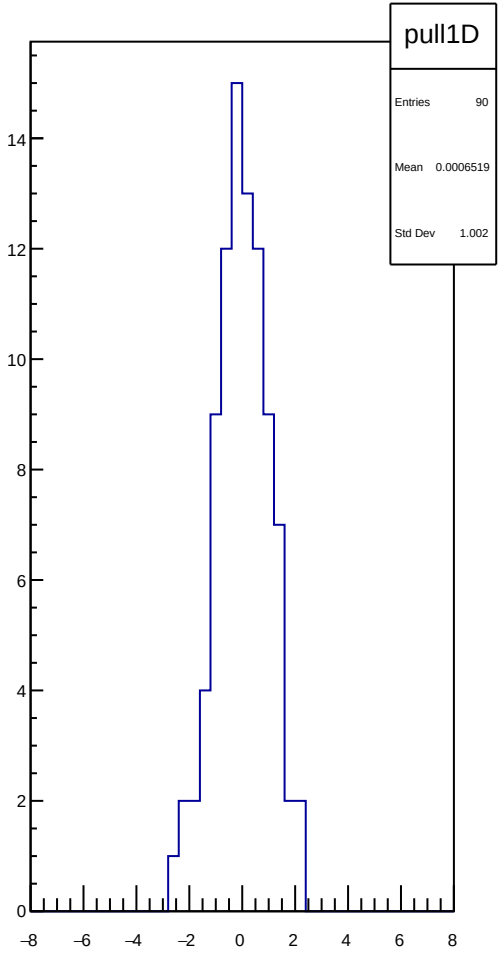

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4938 / 89
p0 960.6 ± 0.7254
1100
1050
1000
950
900
850

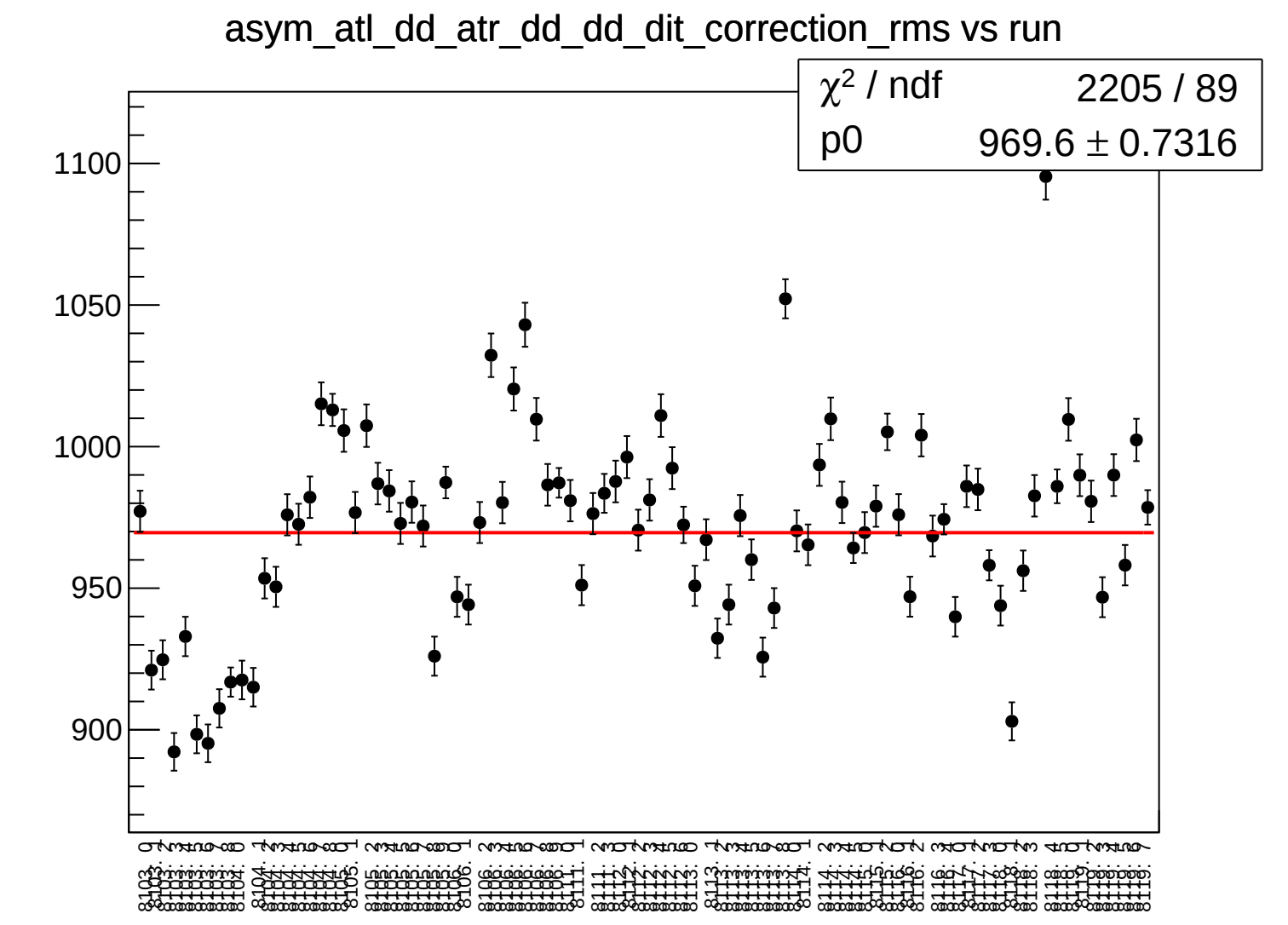

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 67.83 / 89
p0 994.1 ± 1248
pull
Entries 90
Mean −411.8
Std Dev 0

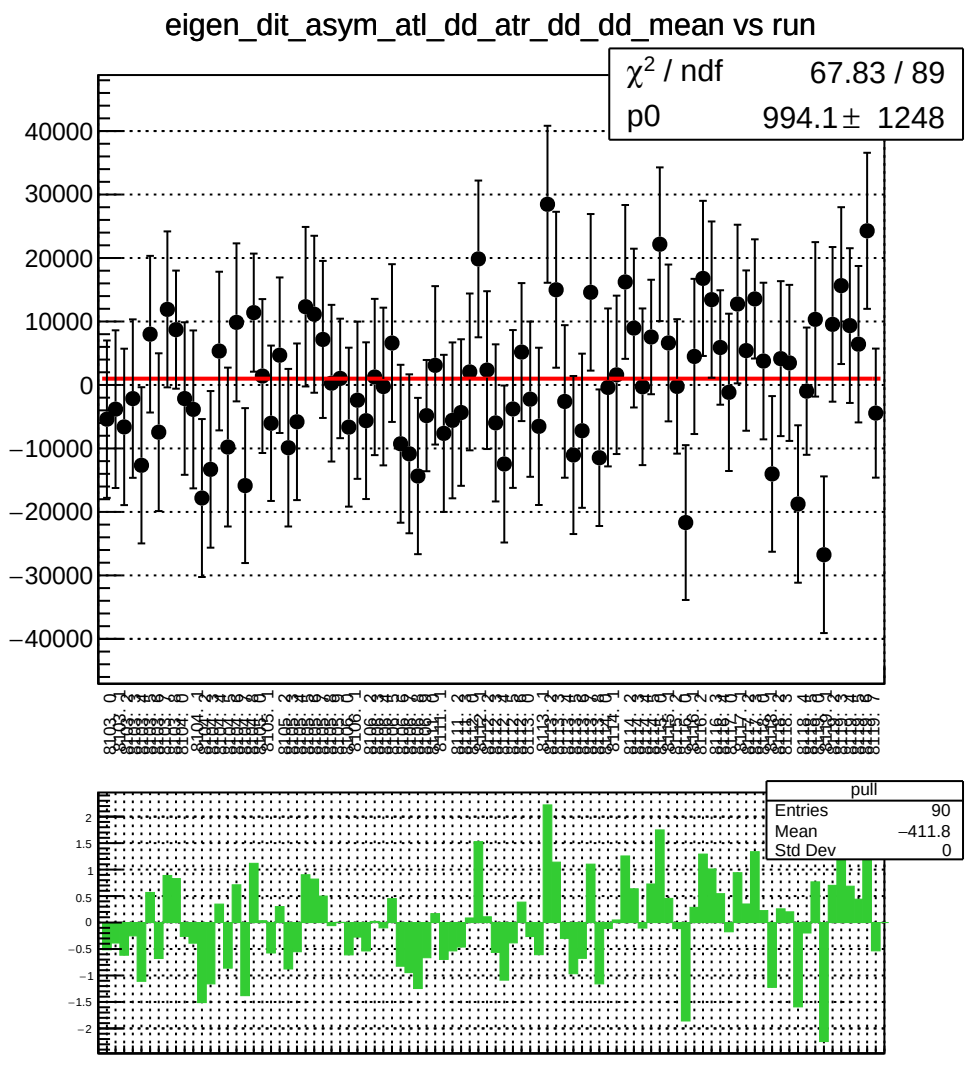

pull1D
Entries 90
Mean −0.0111
Std Dev 0.8681

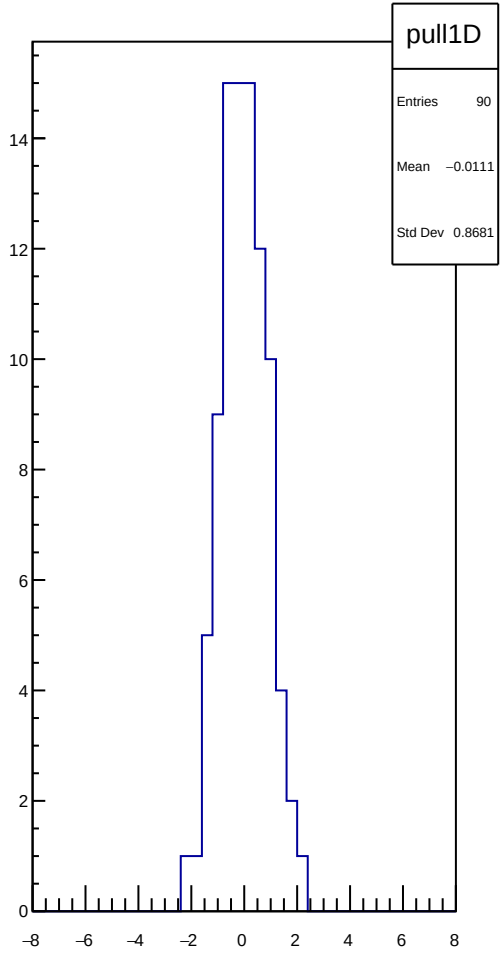

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 164.4 / 89
p0 1170 ± 0.8824
1210
1200
1190
1180
1170
1160
1150
1140
1130

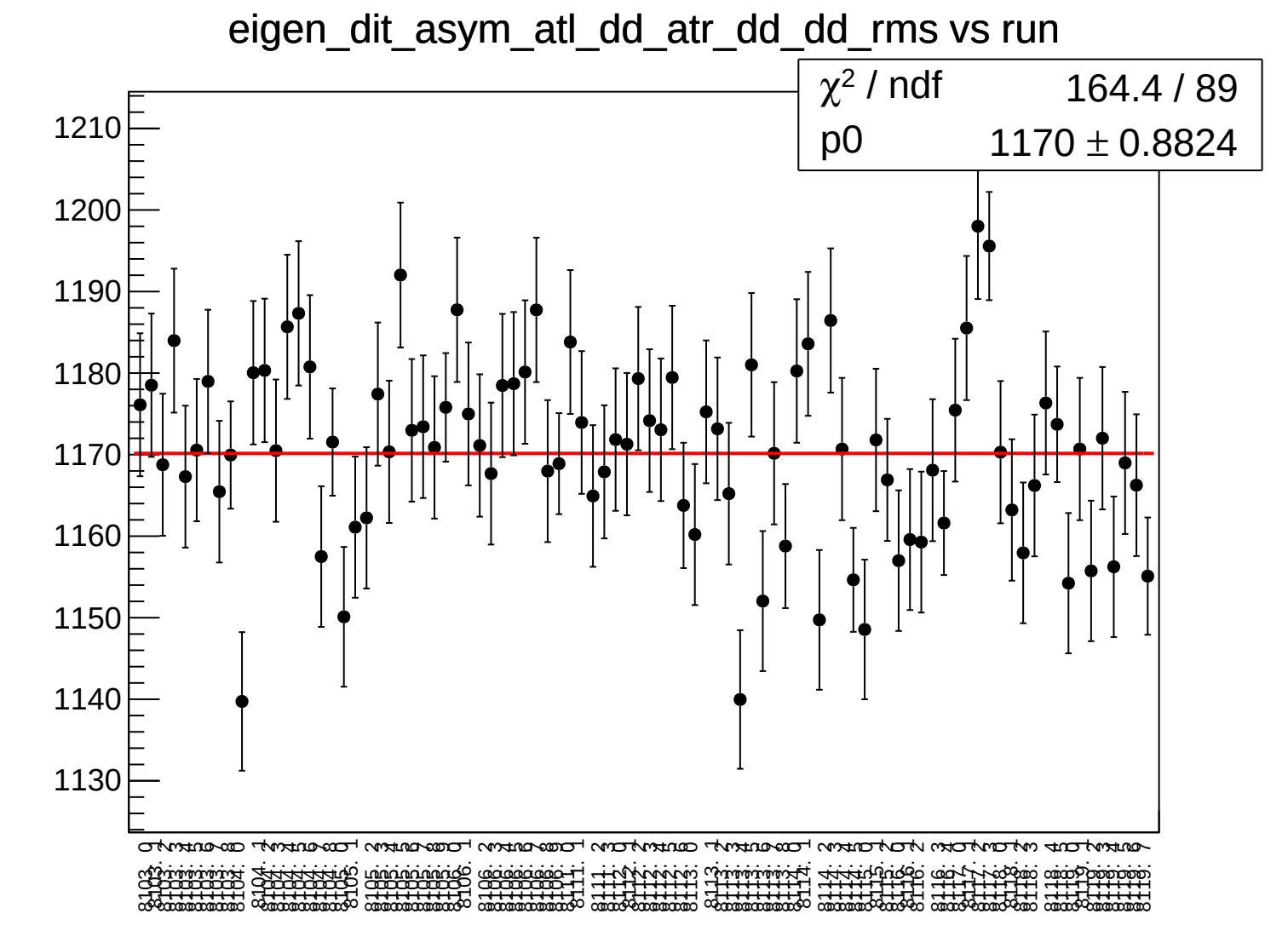

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 90.41 / 89
p0 2748 ± 1035
pull
Entries 90
Mean 5455
Std Dev 0

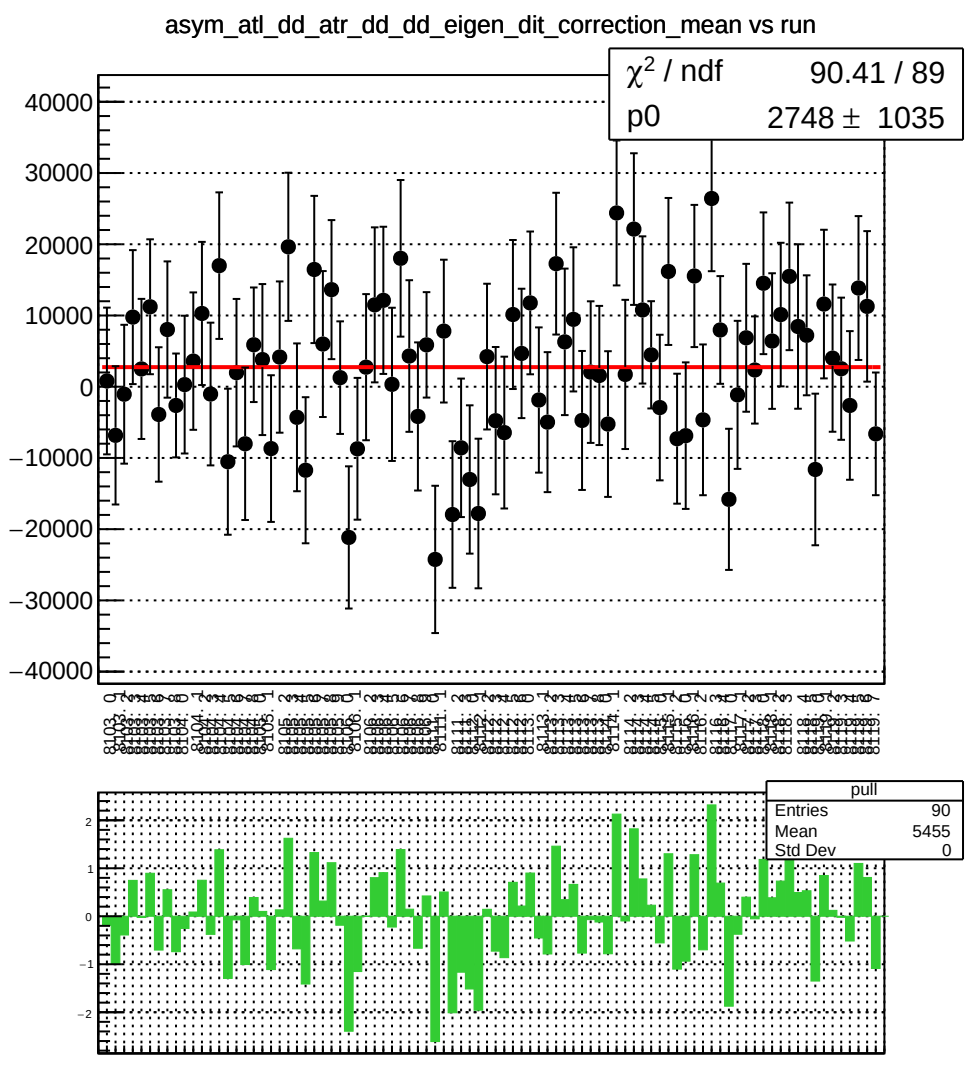

pull1D
Entries 90
Mean 0.0006519
Std Dev 1.002

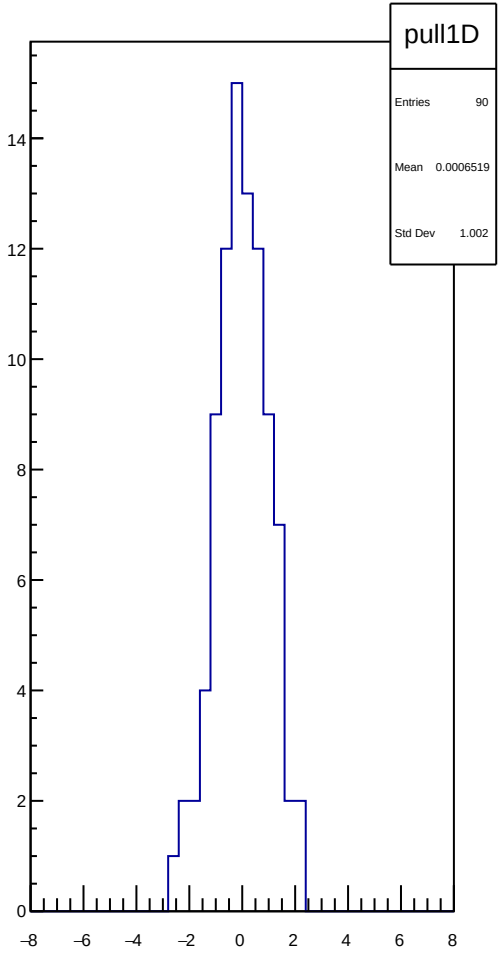

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2205 / 89
p0 969.6 ± 0.7316
1100
1050
1000
950
900

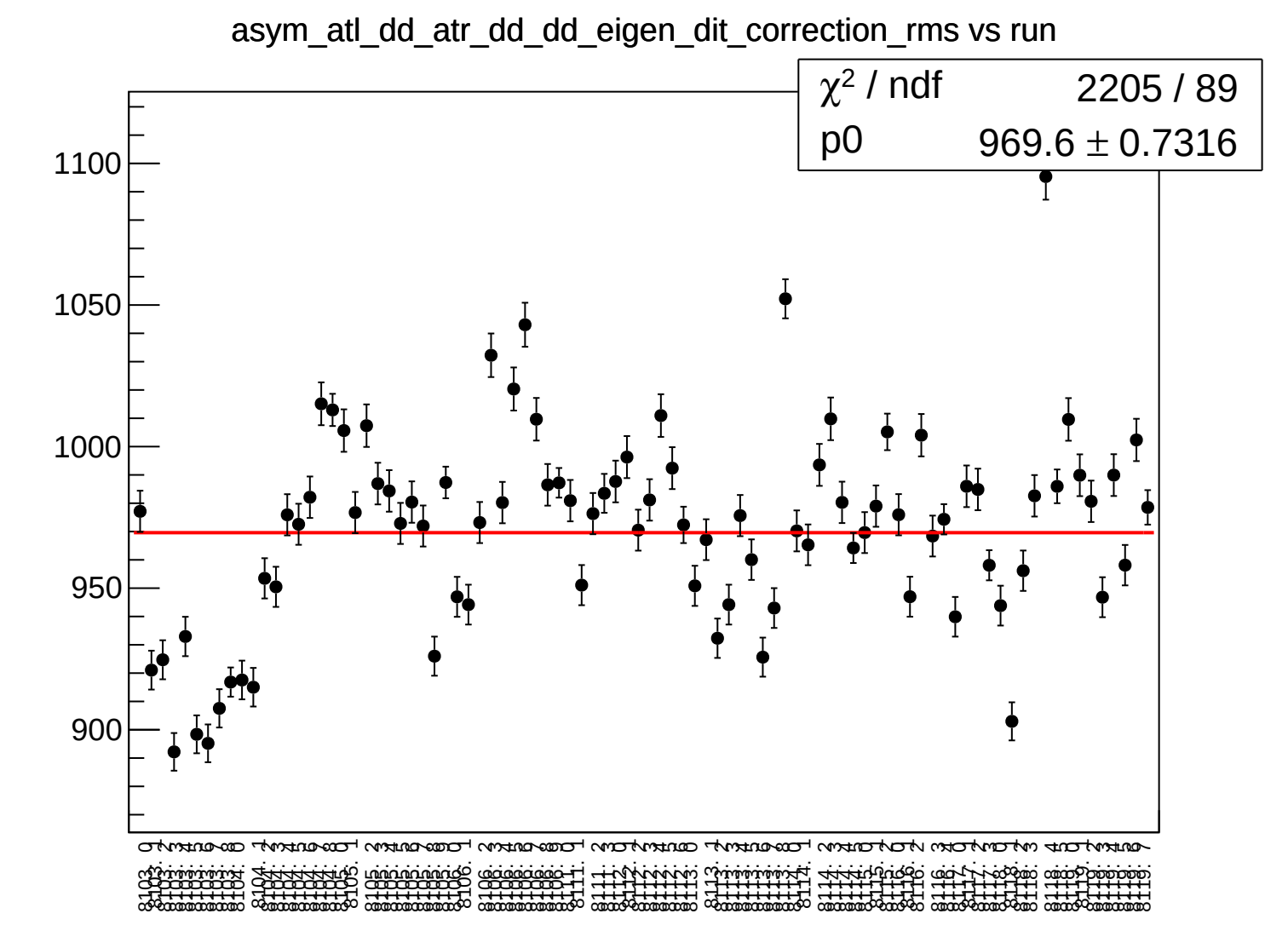

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 67.83 / 89
p0 994.1 ± 1248
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −411.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

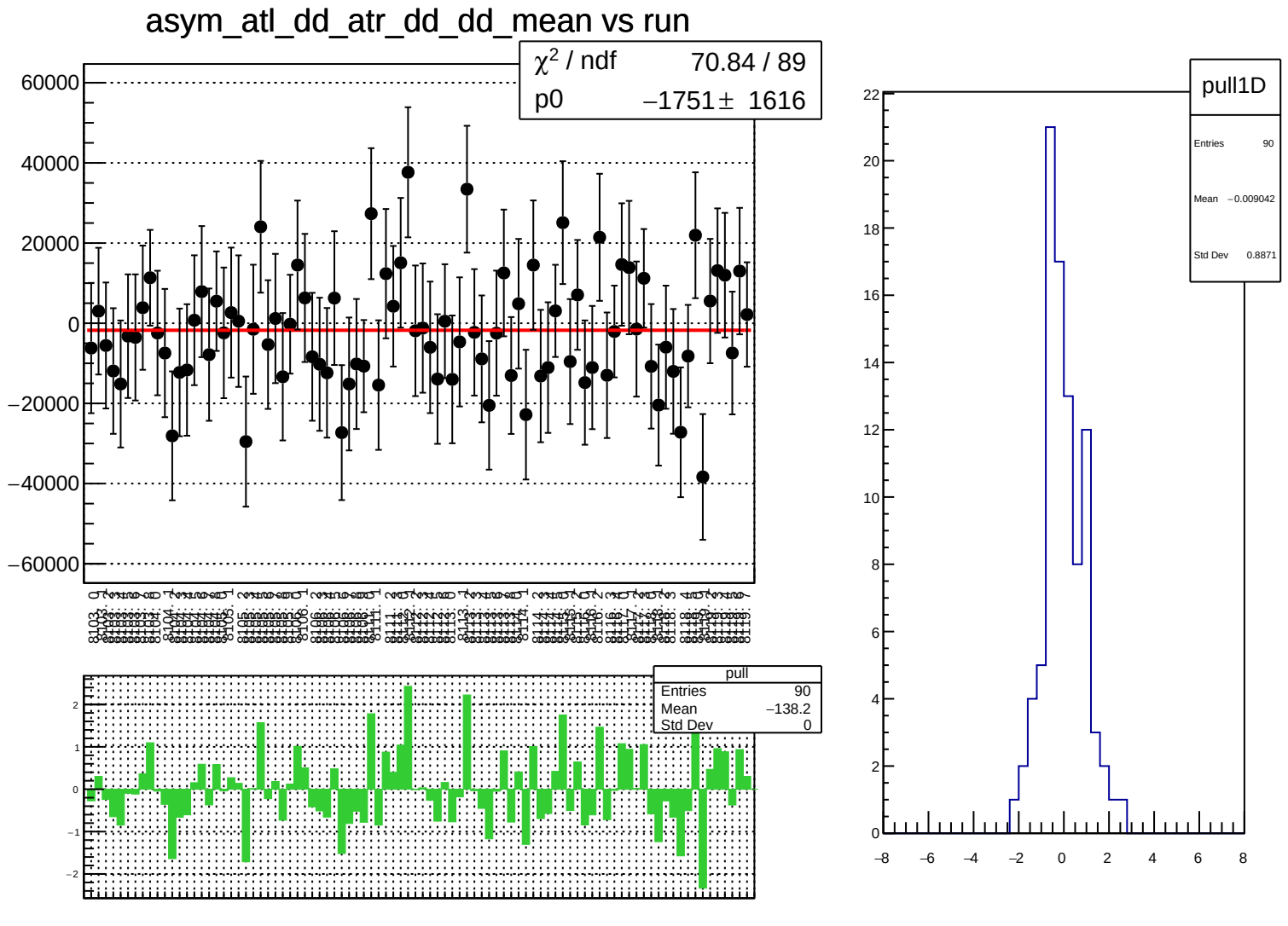

pull1D
Entries 90
Mean −0.0111
Std Dev 0.8681
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

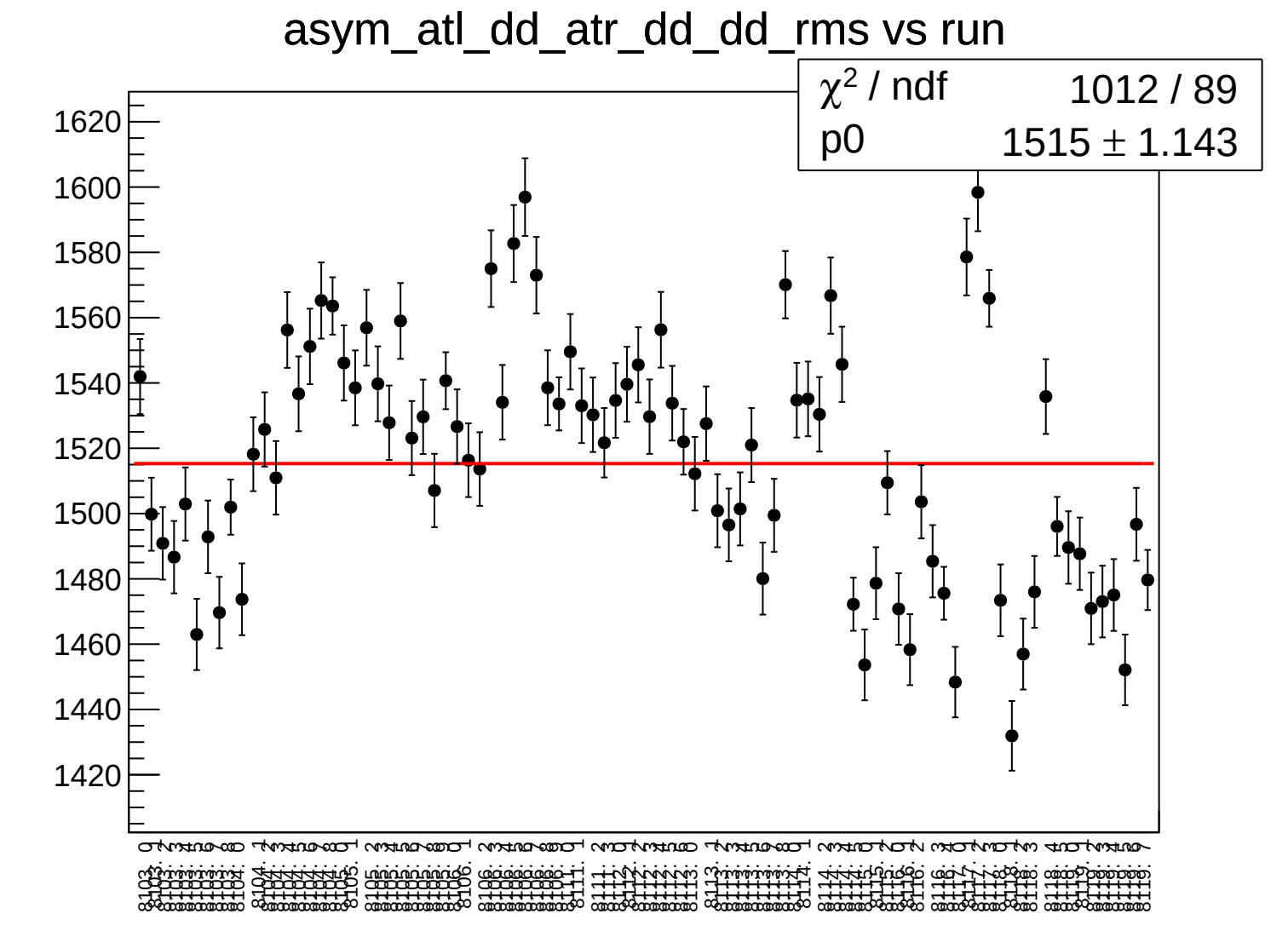

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 164.4 / 89
p0 1170 ± 0.8824
1210
1200
1190
1180
1170
1160
1150
1140
1130

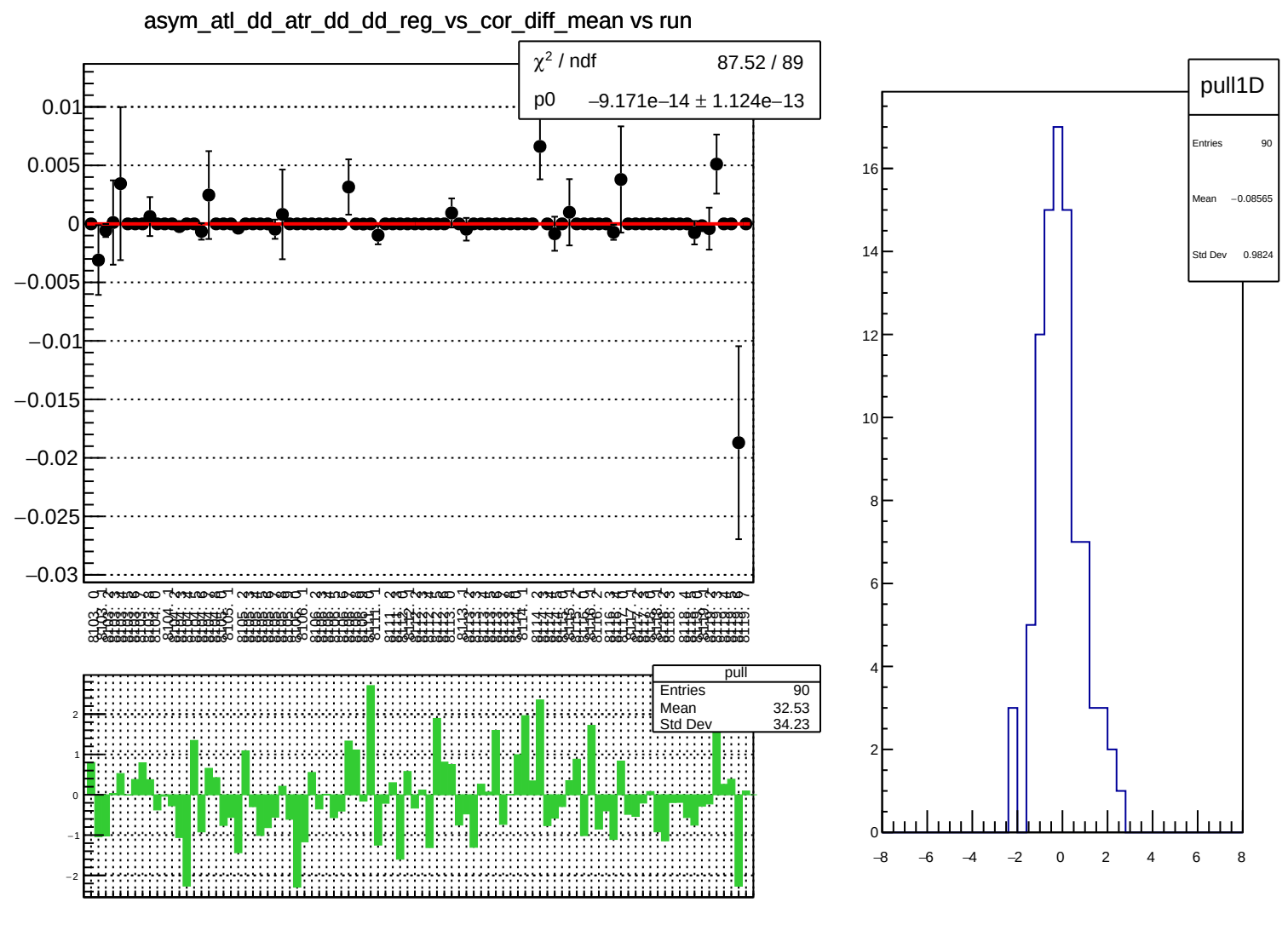

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.41 / 89
p0 2748 ± 1035
pull
Entries 90
Mean 5455
Std Dev 0

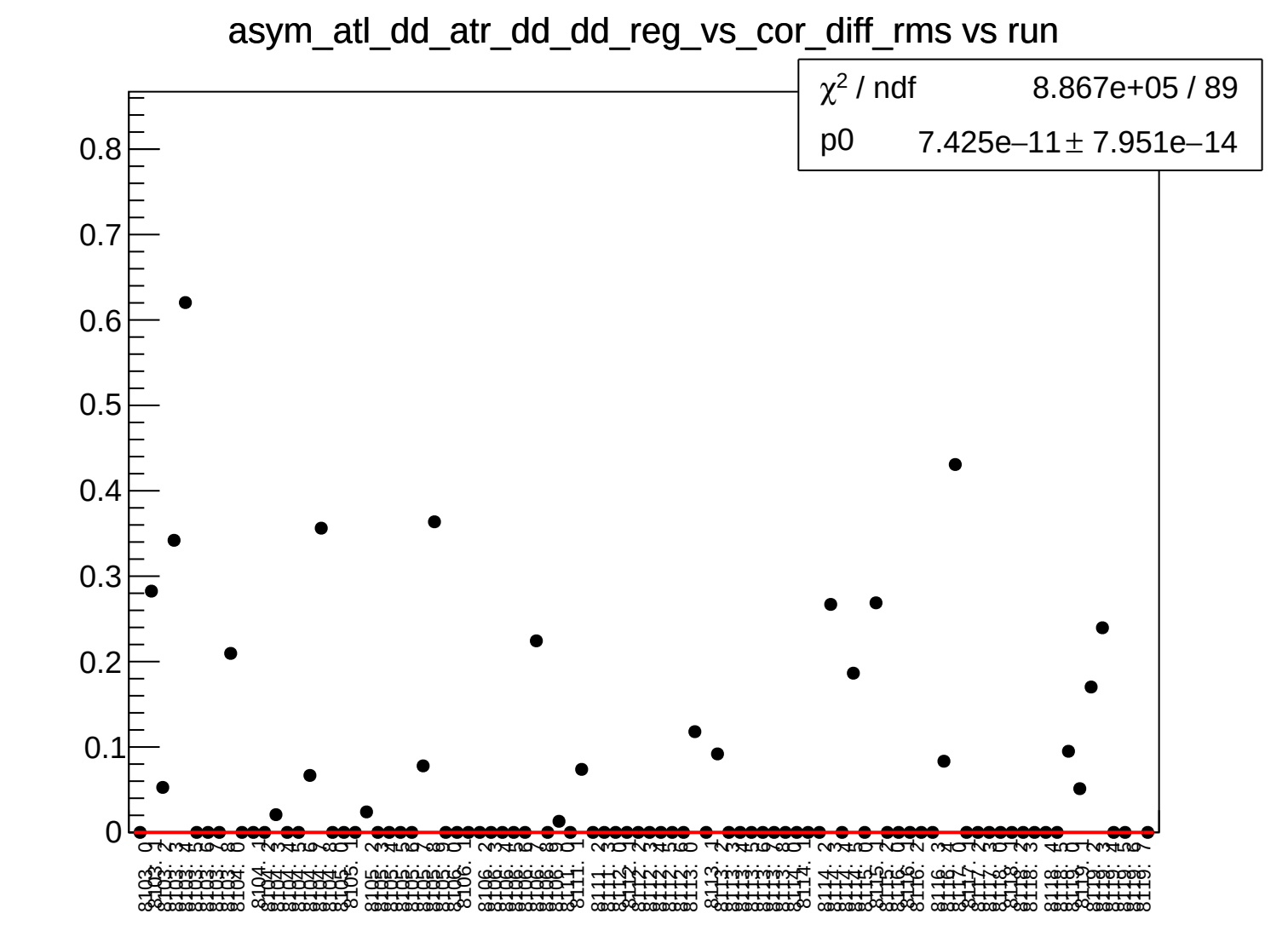

pull1D
Entries 90
Mean 0.0006519
Std Dev 1.002

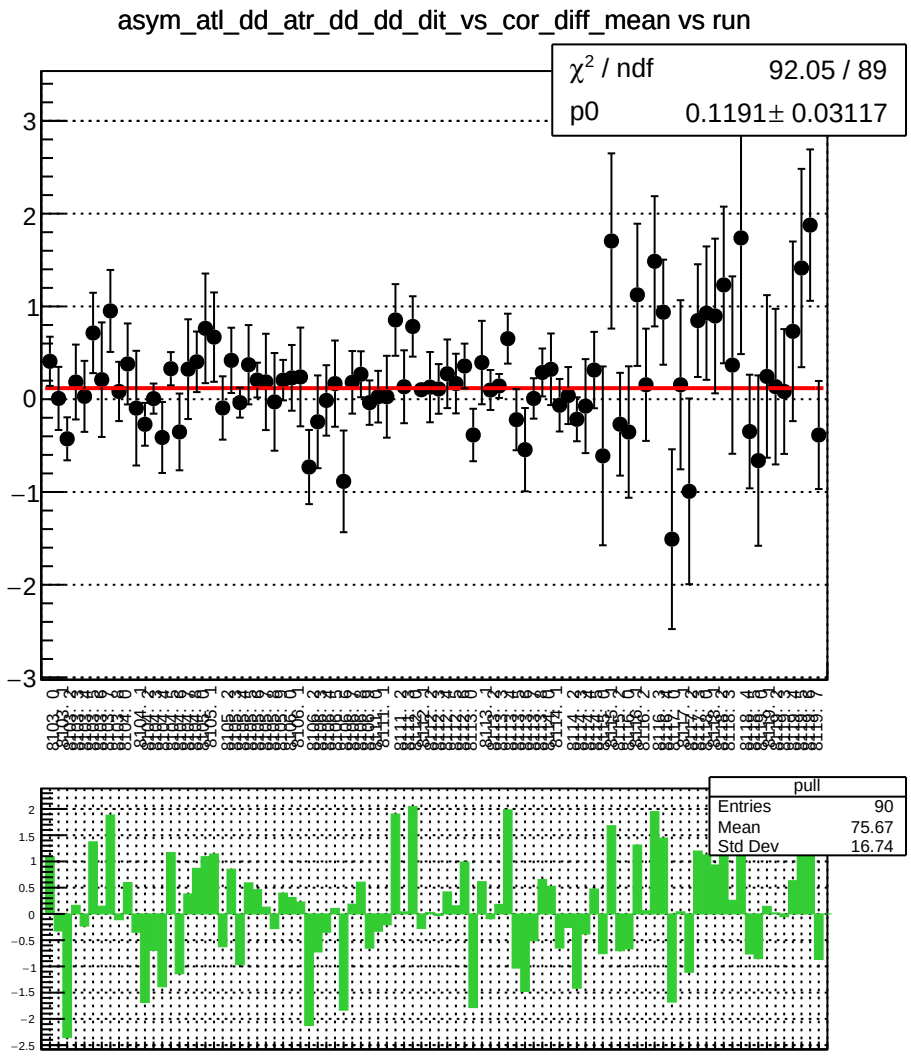

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2205 / 89
p0 969.6 ± 0.7316
1100
1050
1000
950
900

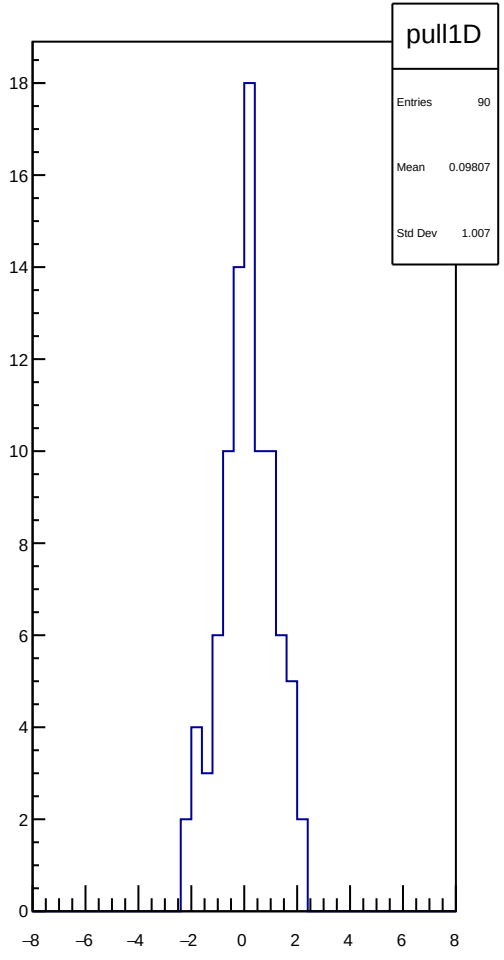

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 70.84 / 89
p0 −1751 ± 1616
pull
Entries 90
Mean −138.2
Std Dev 0
pull1D
Entries 90
Mean −0.009042
Std Dev 0.8871

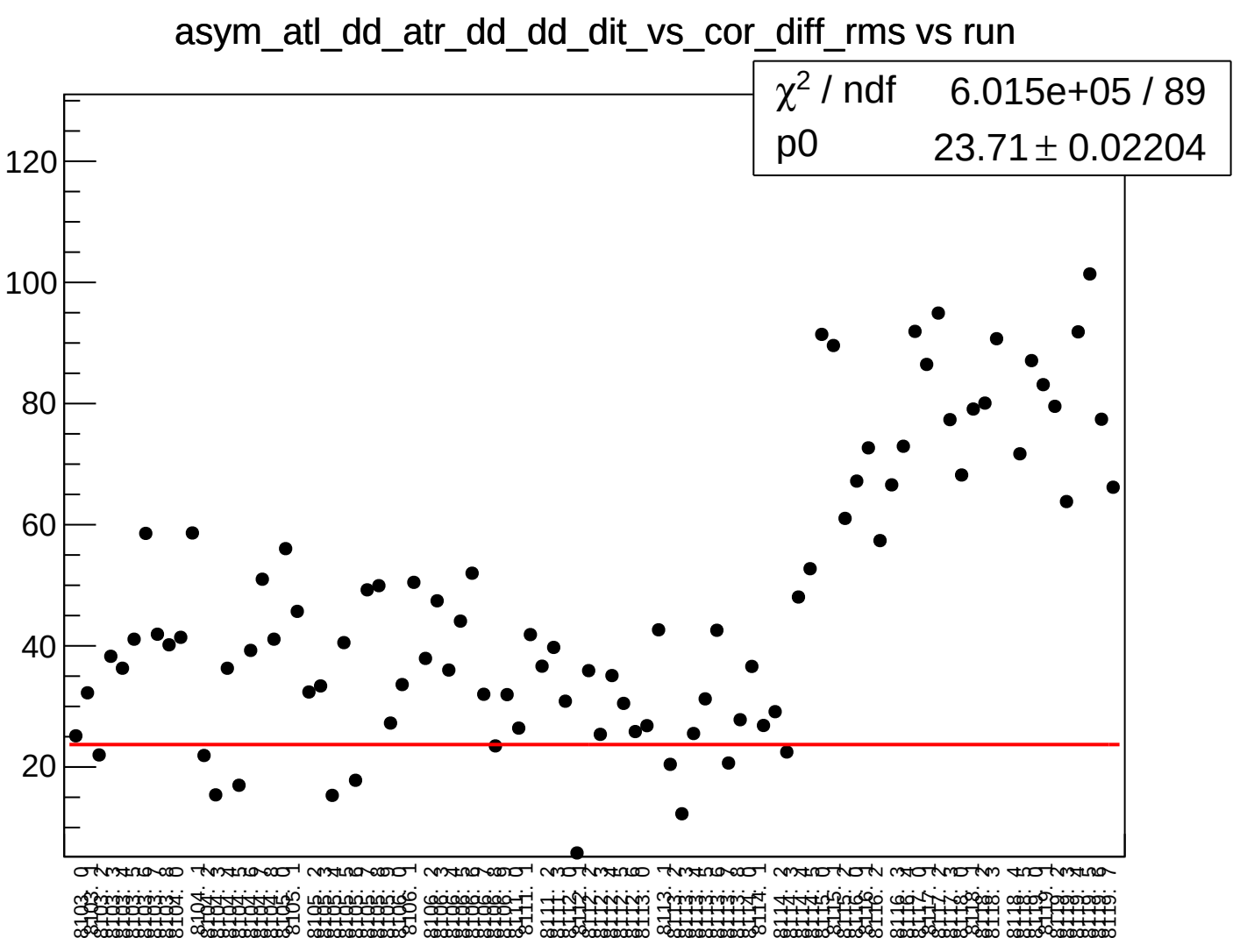

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1012 / 89
p0 1515 ± 1.143
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440
1420

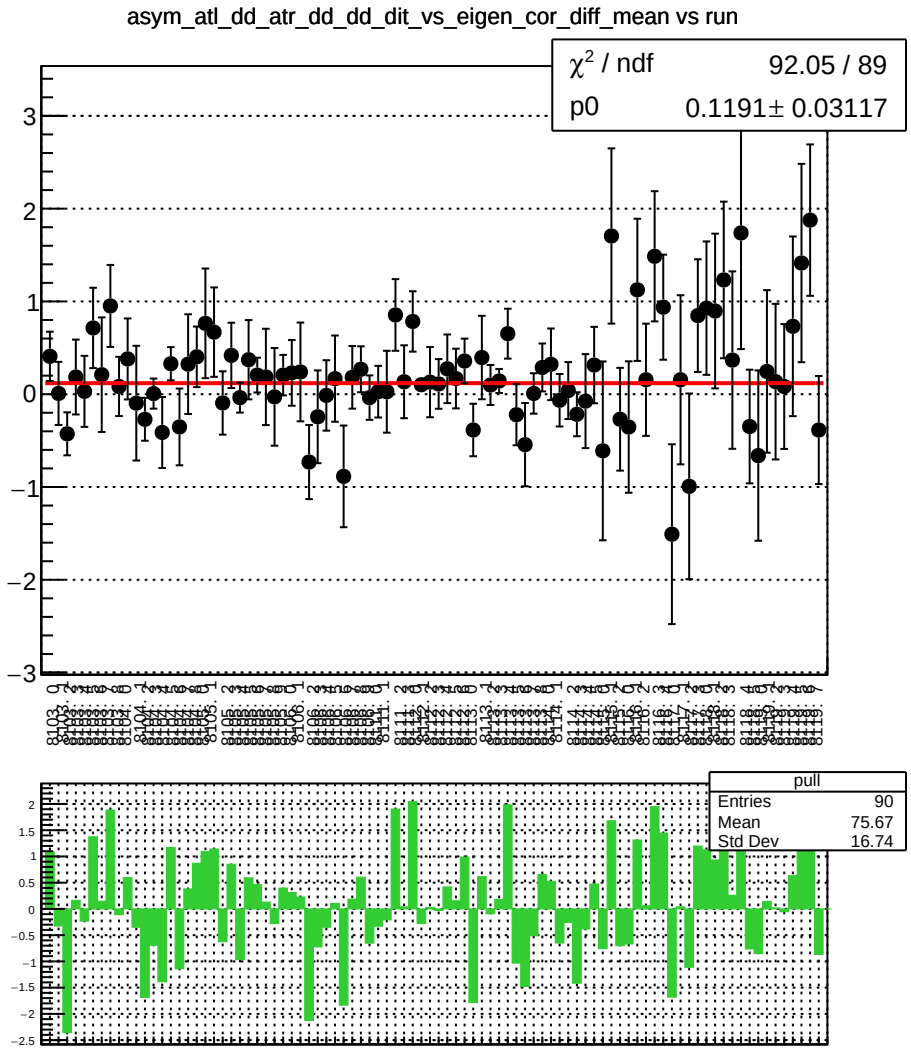

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.52 / 89
p0 −9.171e−14 ± 1.124e−13
pull
Entries 90
Mean 32.53
Std Dev 34.23
pull1D
Entries 90
Mean −0.08565
Std Dev 0.9824

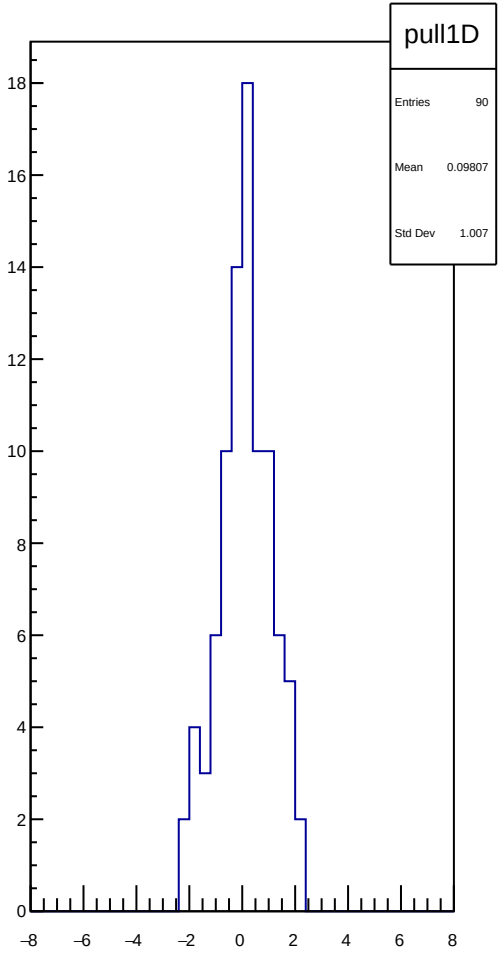

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.867e+05 / 89
p0 7.425e−11 ± 7.951e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

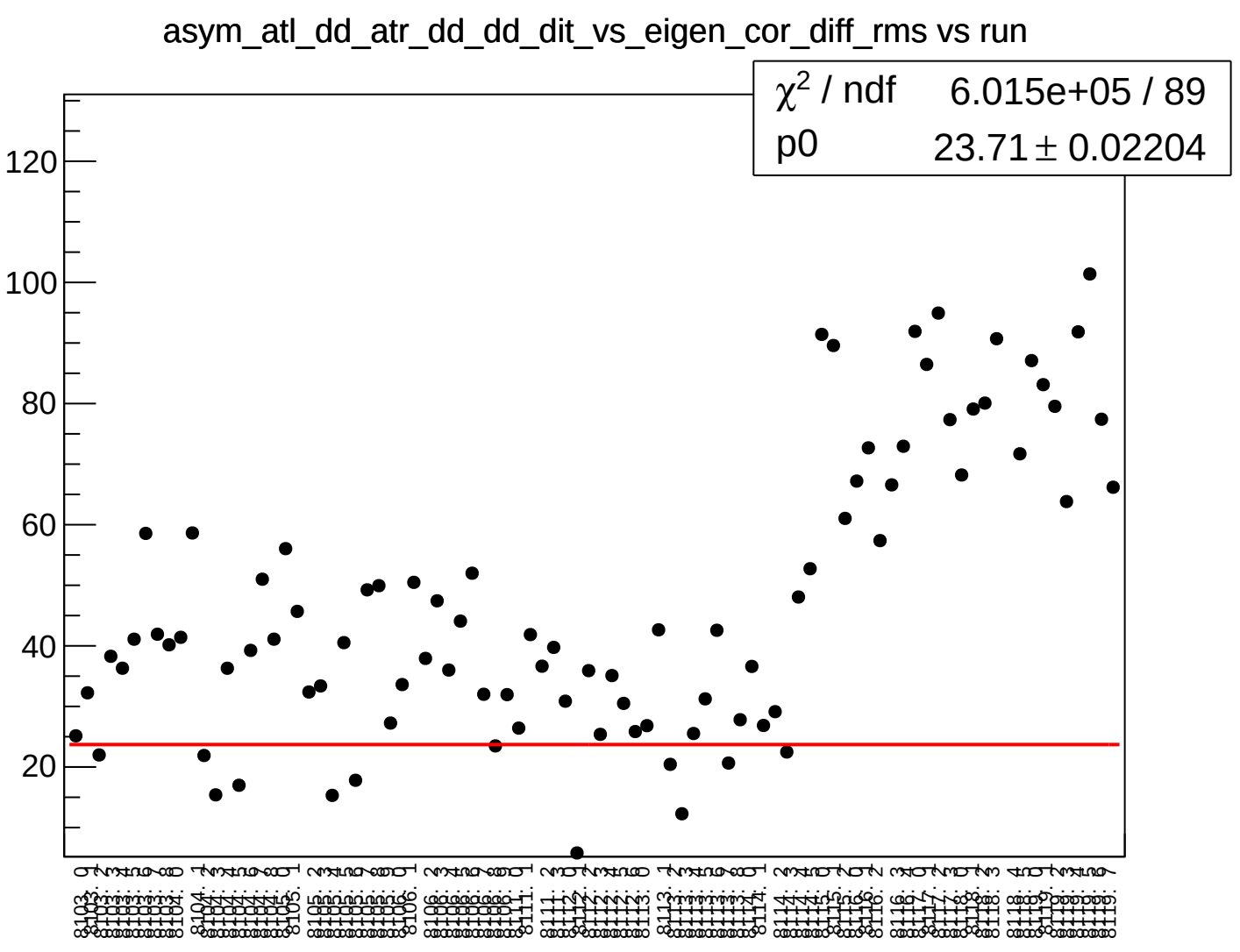

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.05 / 89
p0 0.1191± 0.03117
pull
Entries 90
Mean 75.67
Std Dev 16.74

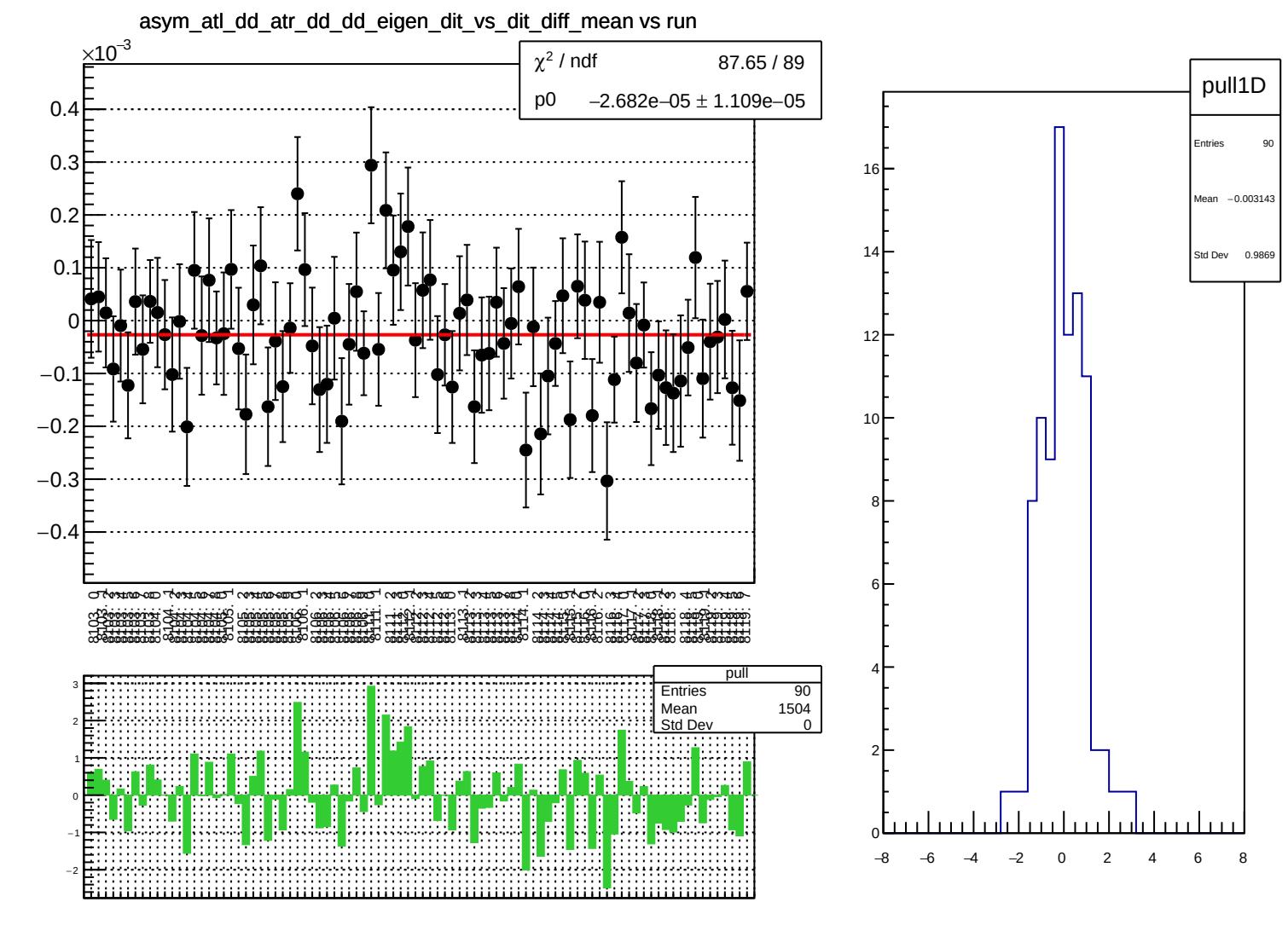

pull1D
Entries 90
Mean 0.09807
Std Dev 1.007

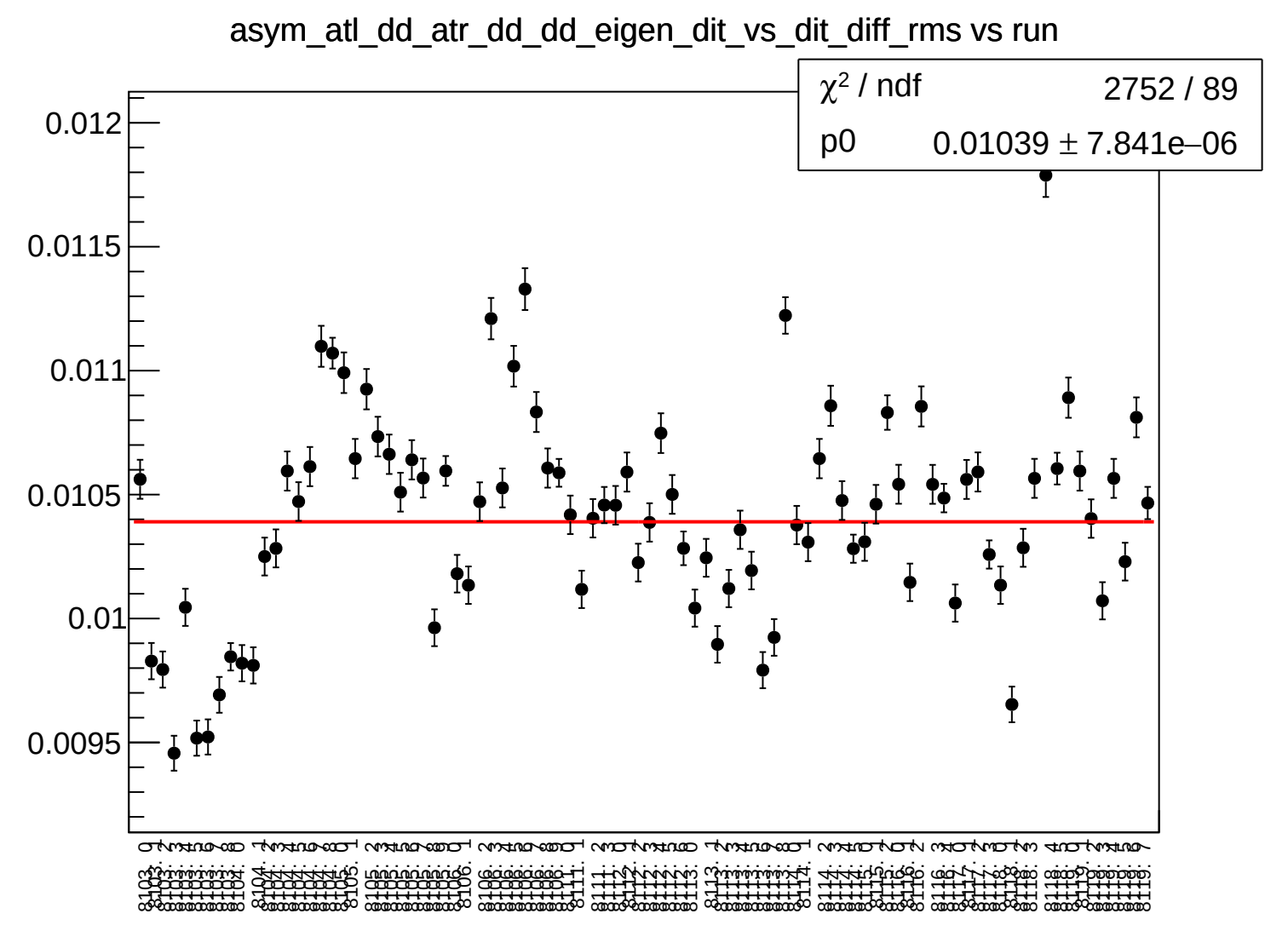

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.015e+05 / 89
p0 23.71 ± 0.02204
120
100
80
60
40
20

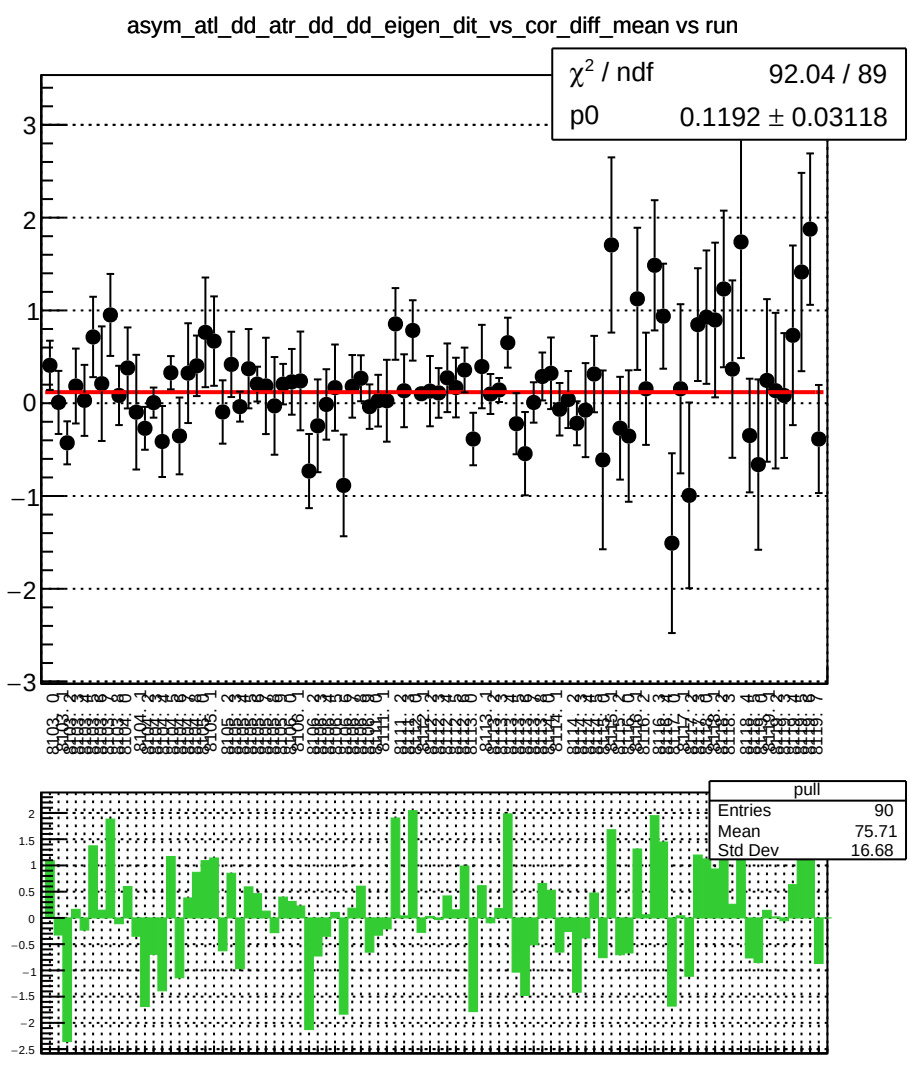

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.05 / 89
p0 0.1191± 0.03117
pull
Entries 90
Mean 75.67
Std Dev 16.74

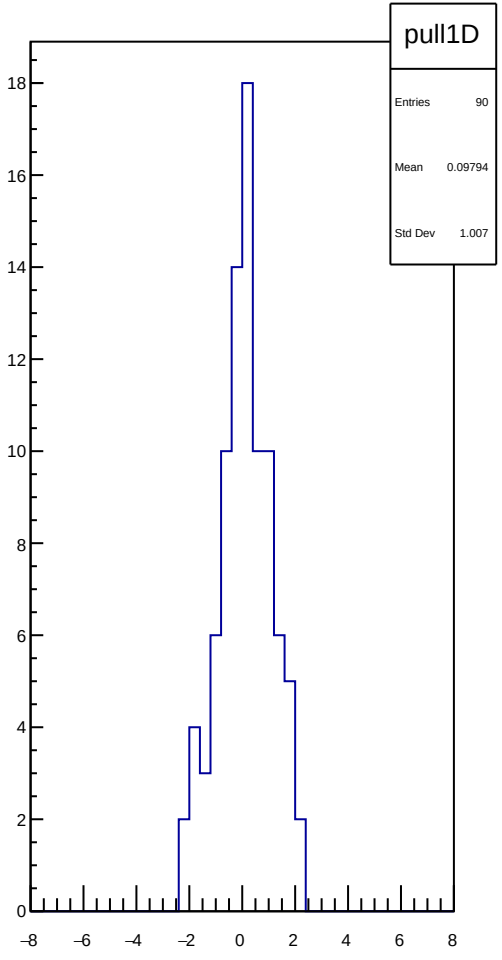

pull1D
Entries 90
Mean 0.09807
Std Dev 1.007

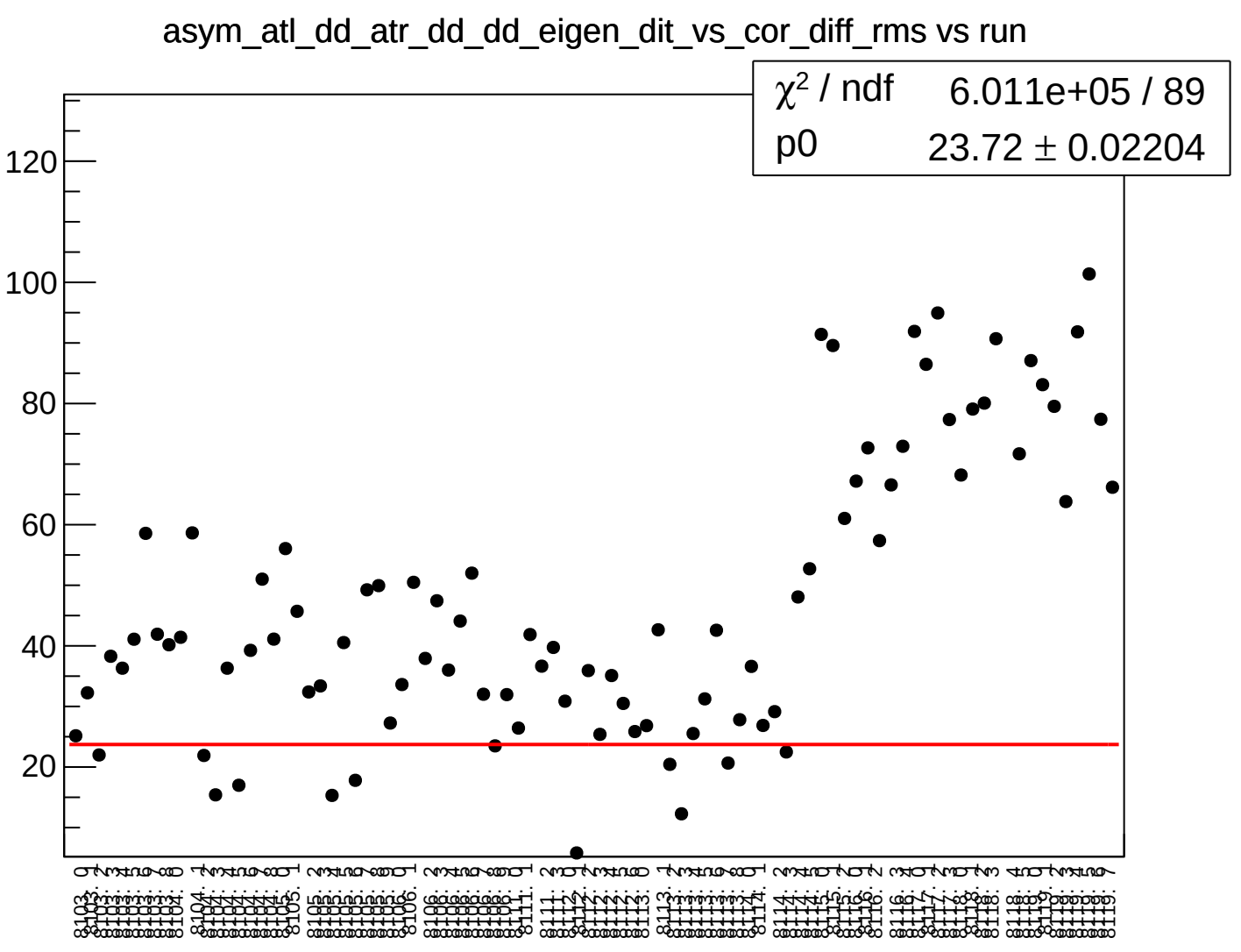

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.015e+05 / 89
p0 23.71 ± 0.02204
120
100
80
60
40
20

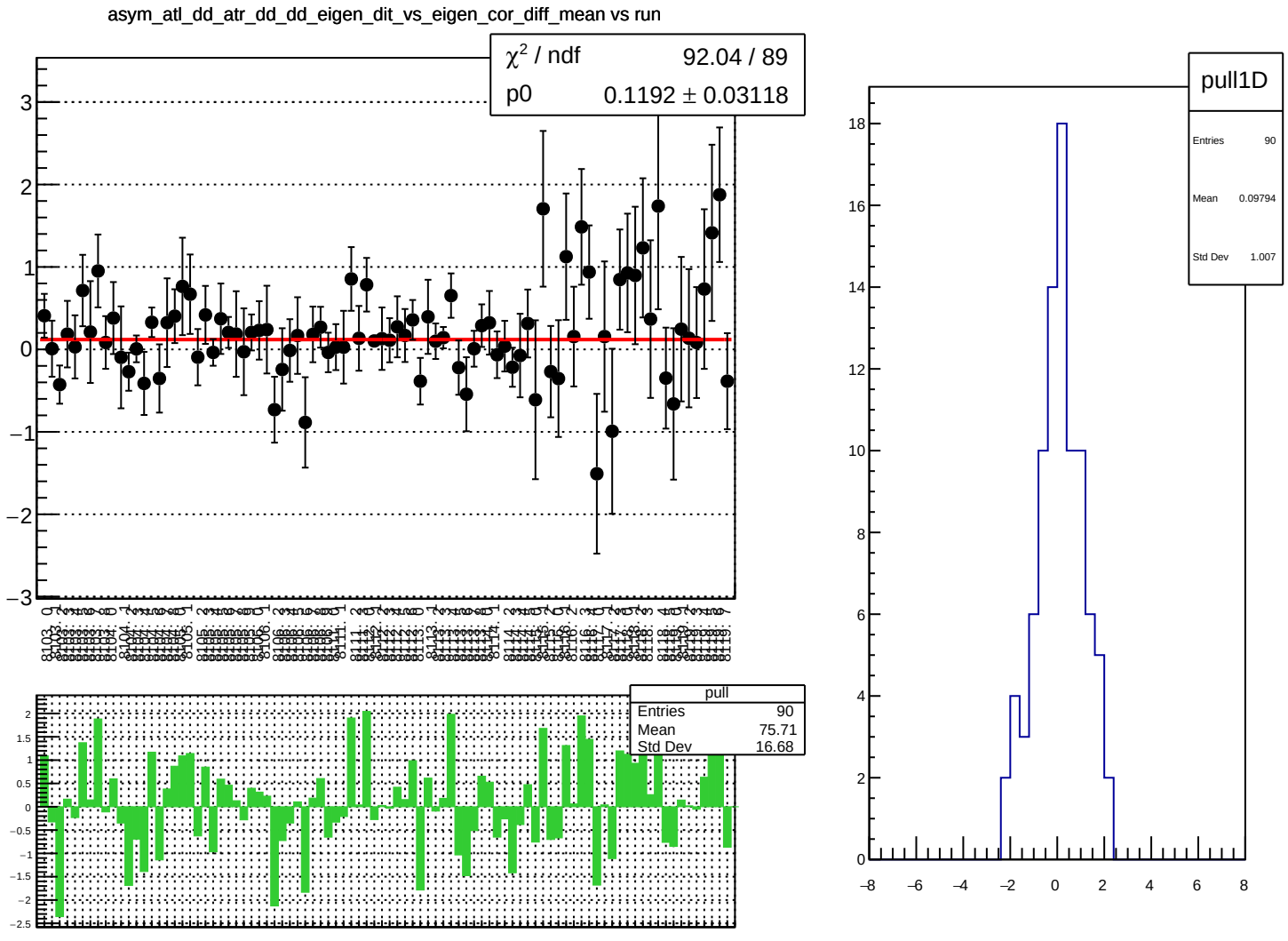

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.65 / 89
p0 −2.682e−05 ± 1.109e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 90
Mean 1504
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003143
Std Dev 0.9869
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

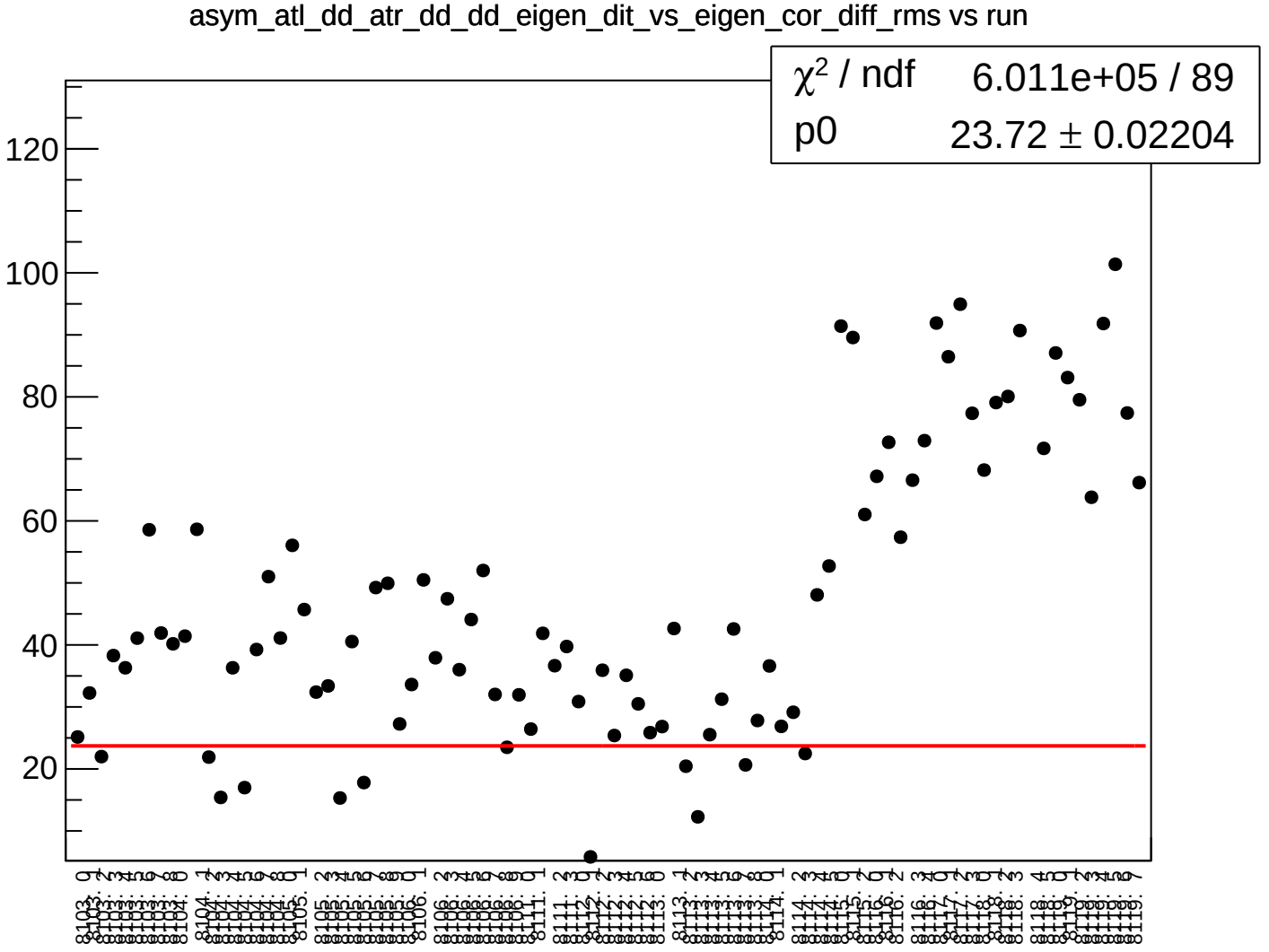

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2752 / 89
p0 0.01039 ± 7.841e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095

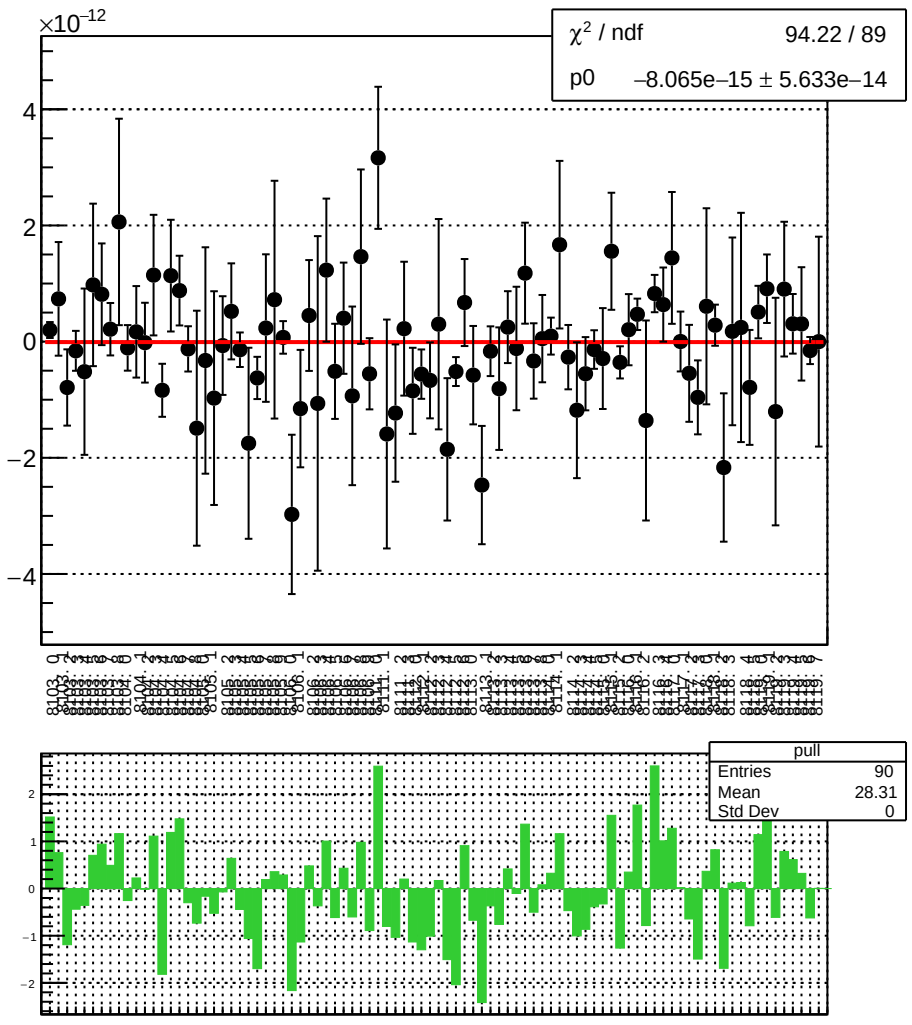

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.04 / 89
p0 0.1192 ± 0.03118
pull
Entries 90
Mean 75.71
Std Dev 16.68

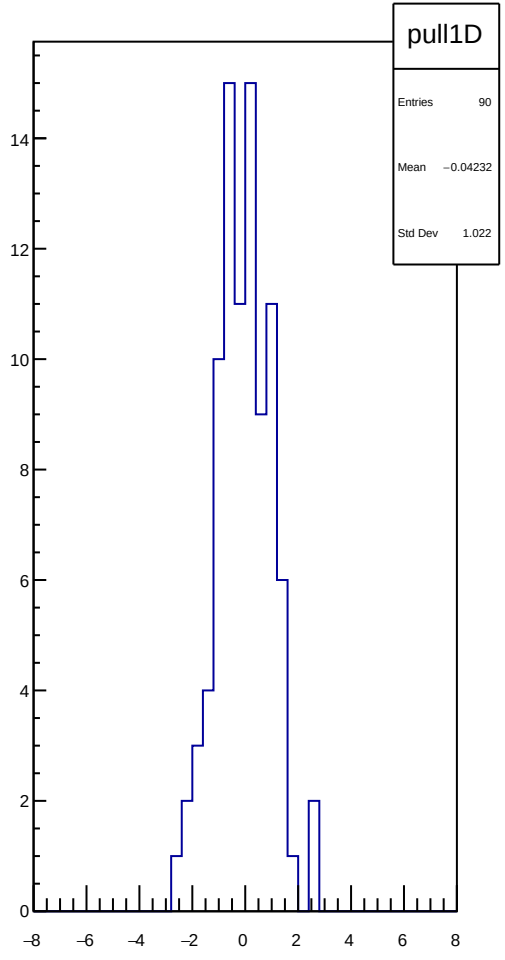

pull1D
Entries 90
Mean 0.09794
Std Dev 1.007

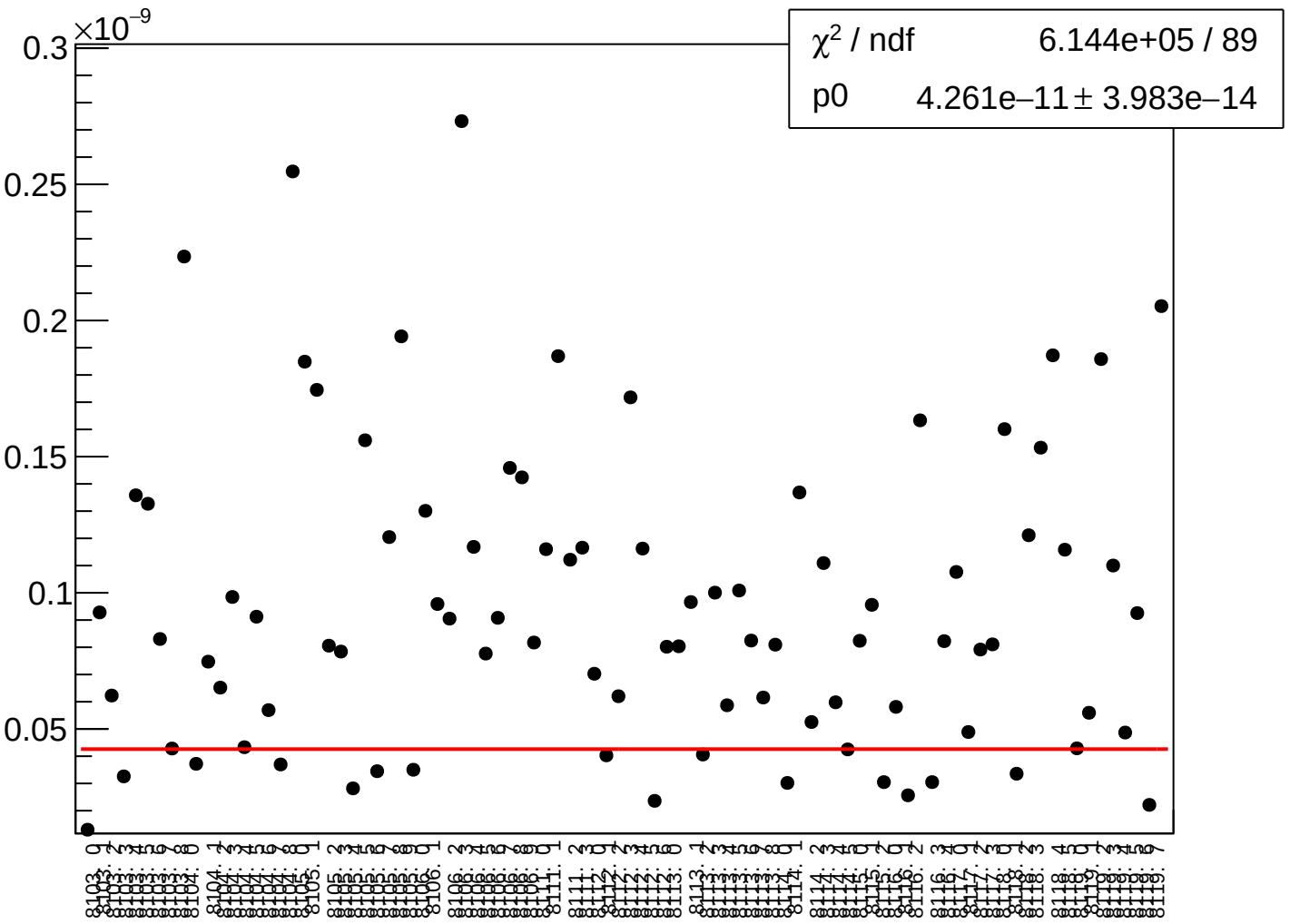

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.011e+05 / 89
p0 23.72 ± 0.02204
120
100
80
60
40
20

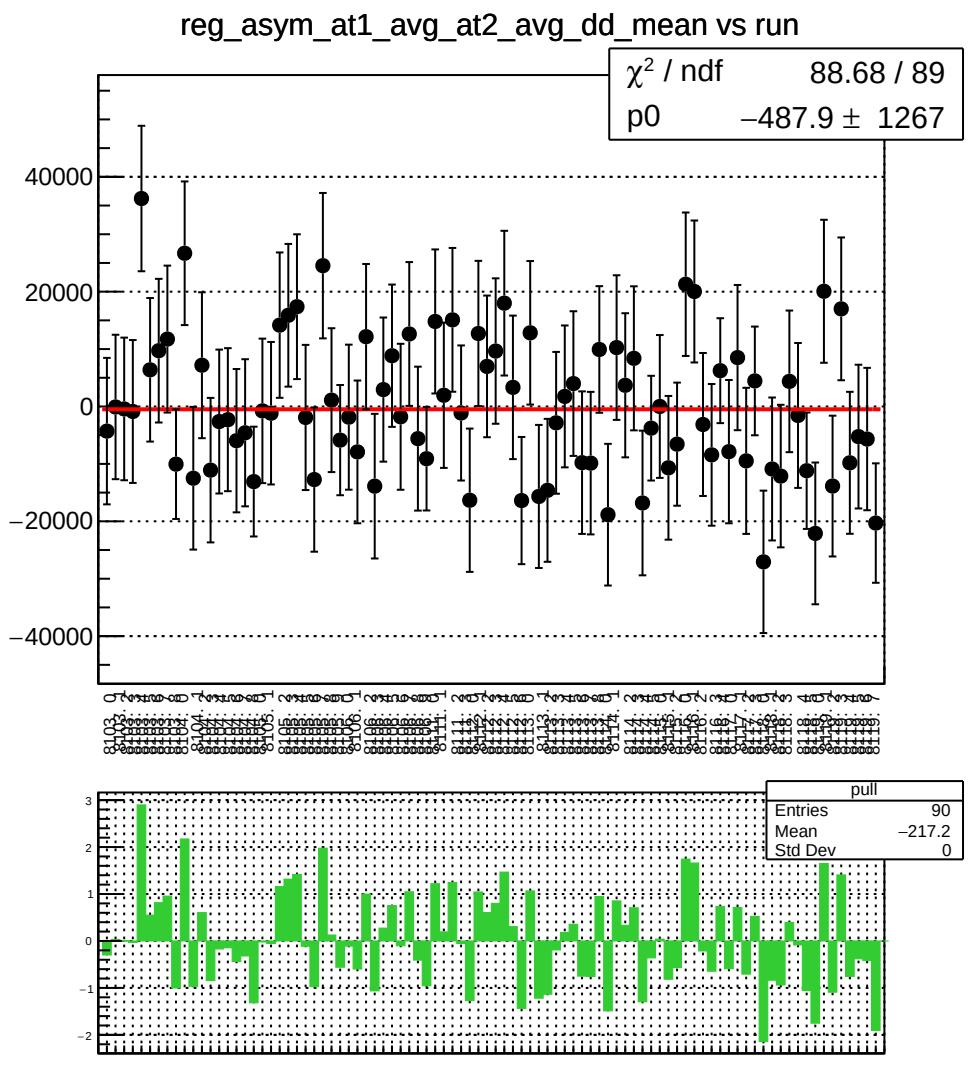

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.04 / 89
p0 0.1192 ± 0.03118
pull
Entries 90
Mean 75.71
Std Dev 16.68
pull1D
Entries 90
Mean 0.09794
Std Dev 1.007

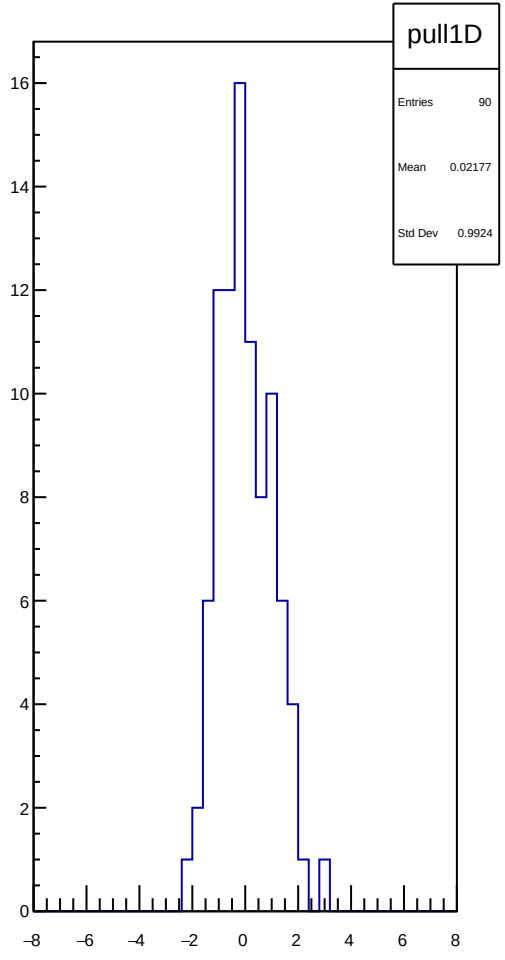

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.011e+05 / 89
p0 23.72 ± 0.02204
120
100
80
60
40
20

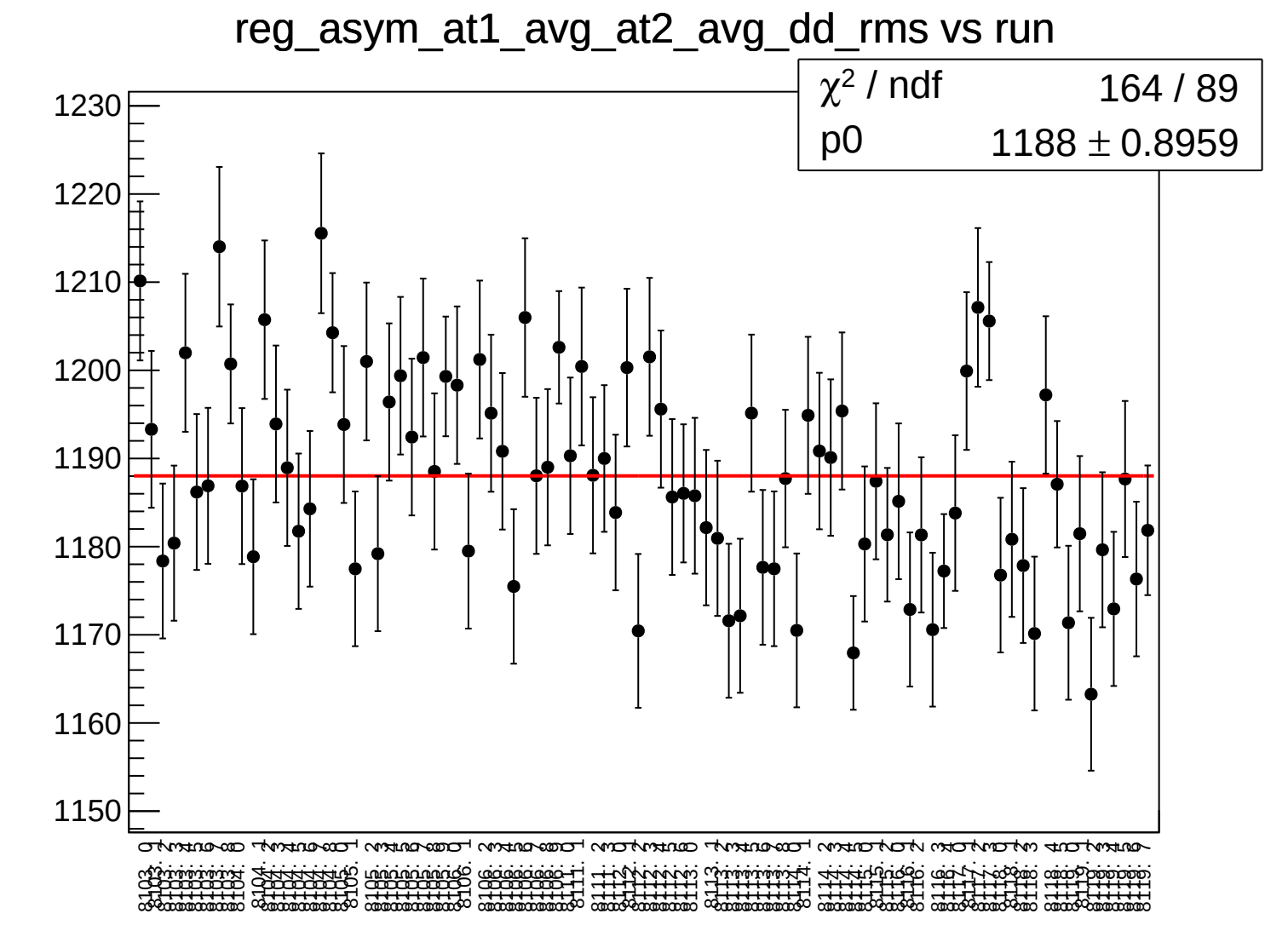

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.22 / 89
p0 −8.065e−15 ± 5.633e−14
pull
Entries 90
Mean 28.31
Std Dev 0

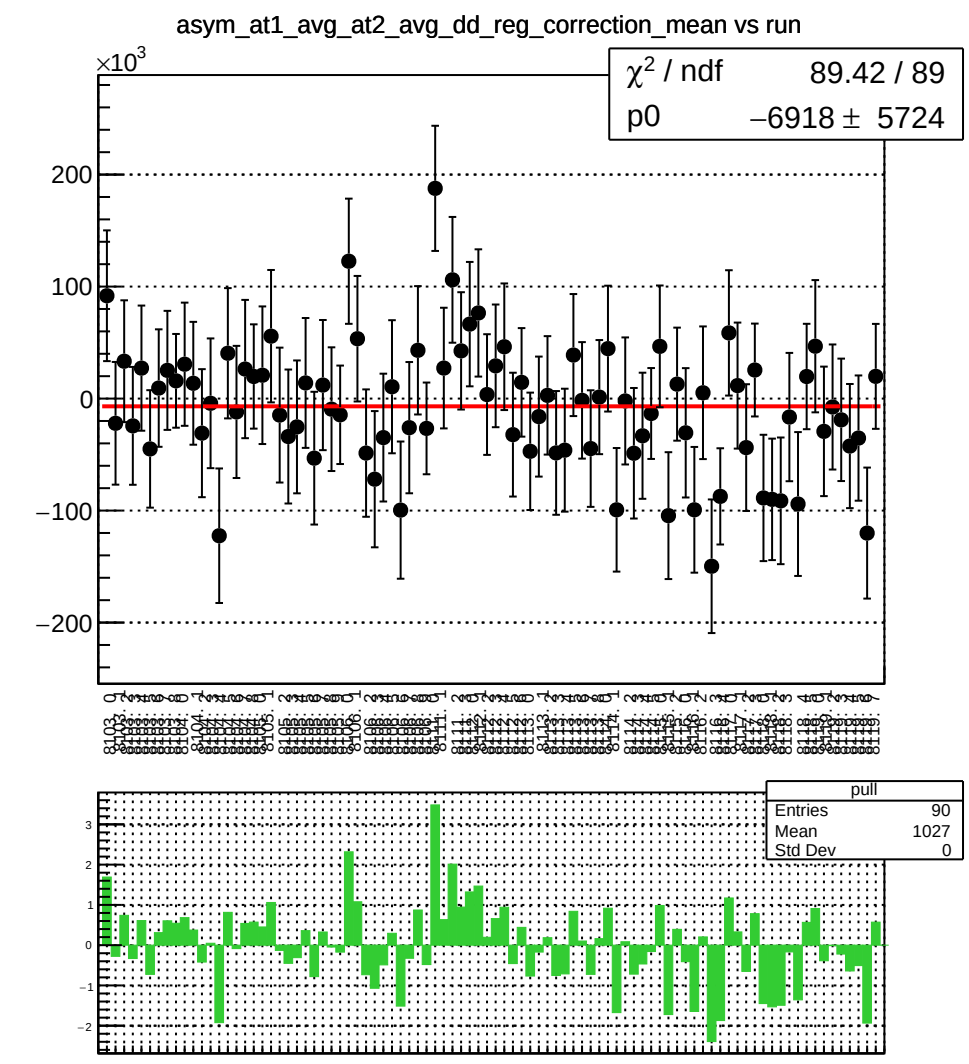

pull1D
Entries 90
Mean −0.04232
Std Dev 1.022

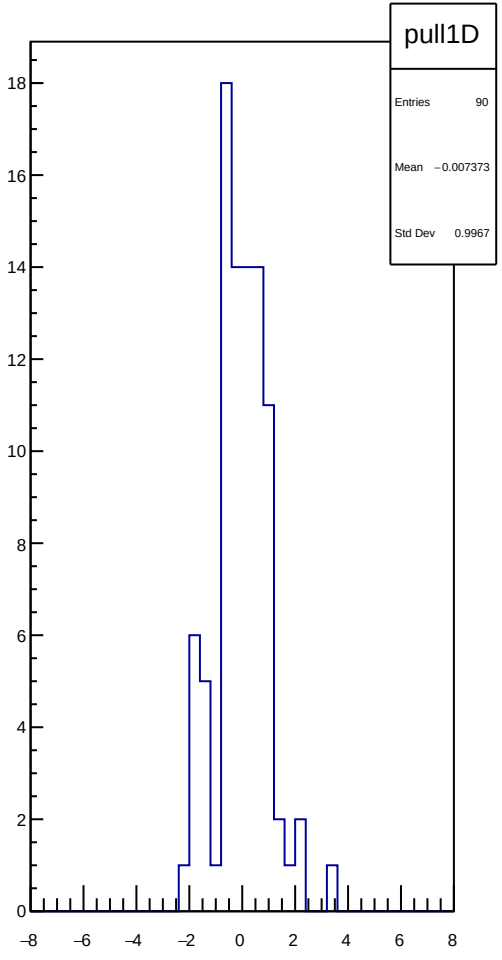

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.144e+05 / 89
p0 4.261e−11 ± 3.983e−14

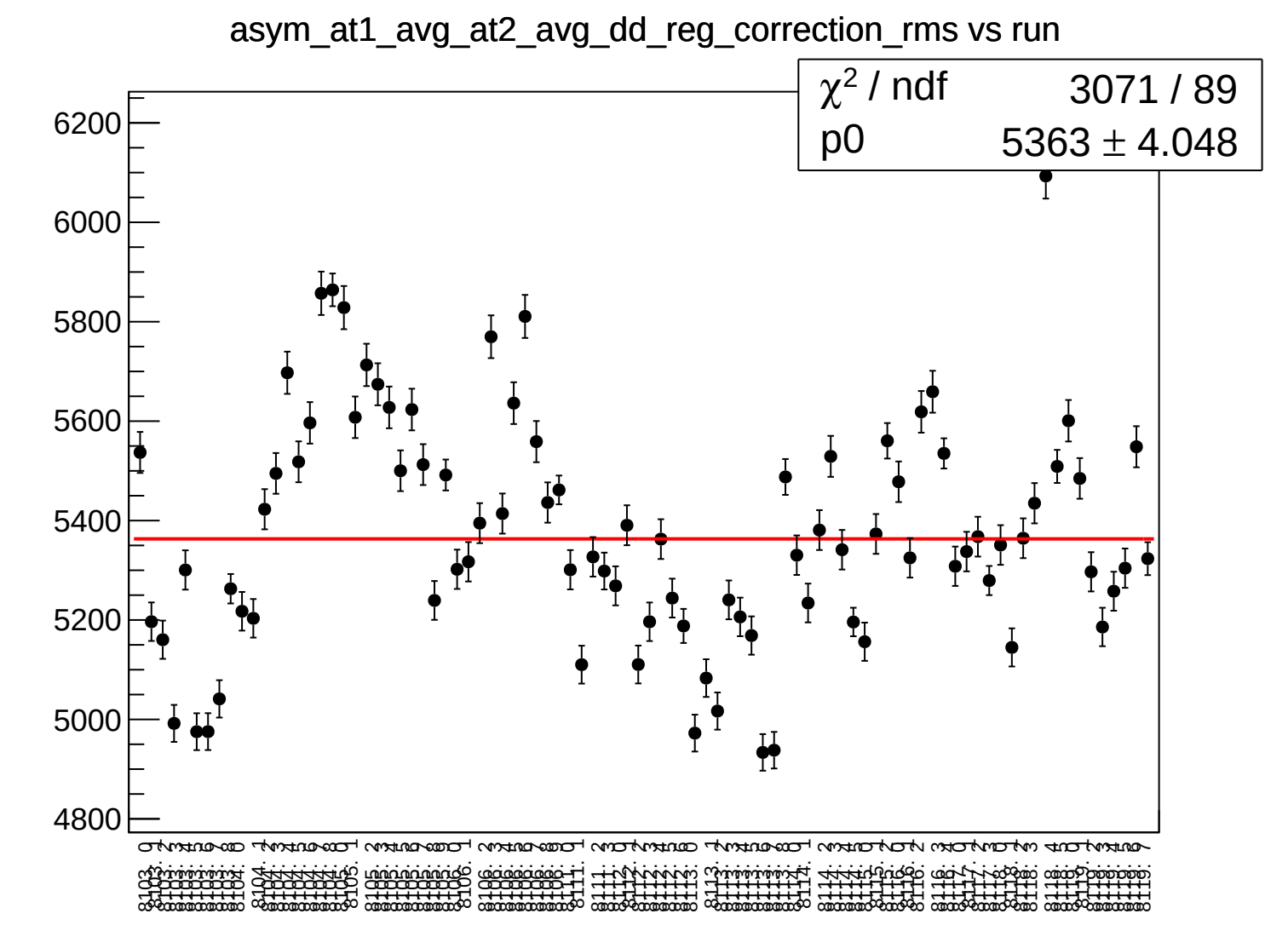

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 88.68 / 89
p0 −487.9 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −217.2
Std Dev 0
3
2
1
0
−1
−2

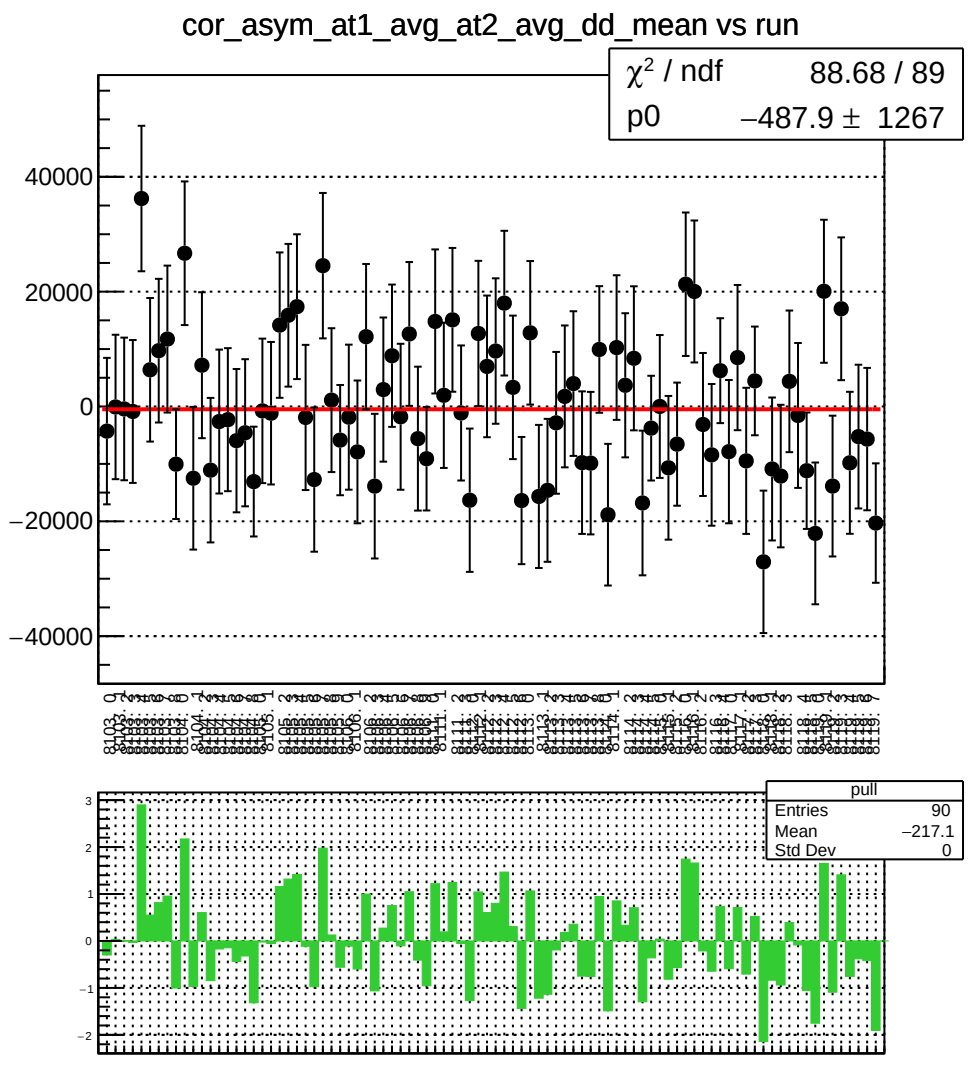

pull1D
Entries 90
Mean 0.02177
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

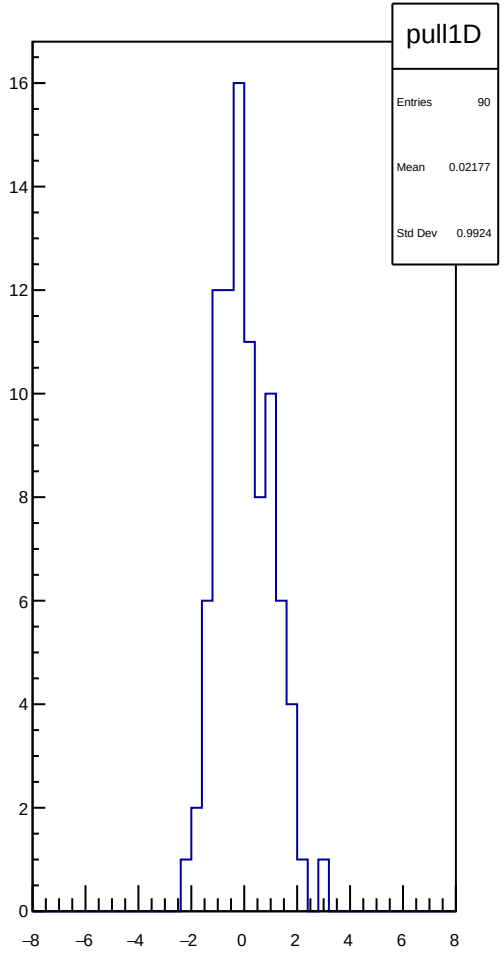

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 164 / 89
p0 1188 ± 0.8959
1230
1220
1210
1200
1190
1180
1170
1160
1150

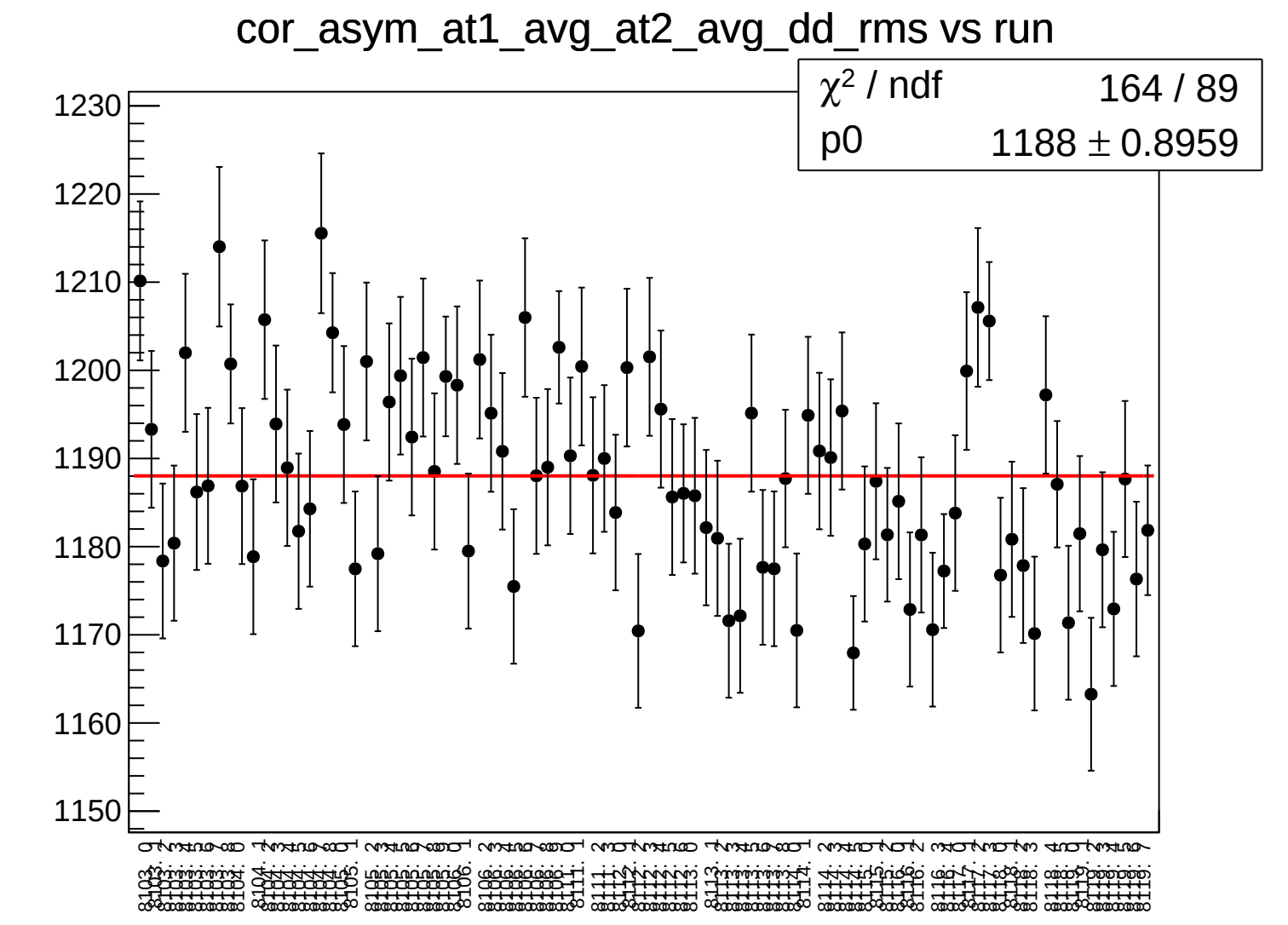

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.42 / 89
p0 −6918 ± 5724
200
100
0
−100
−200
pull
Entries 90
Mean 1027
Std Dev 0
3
2
1
0
−1
−2

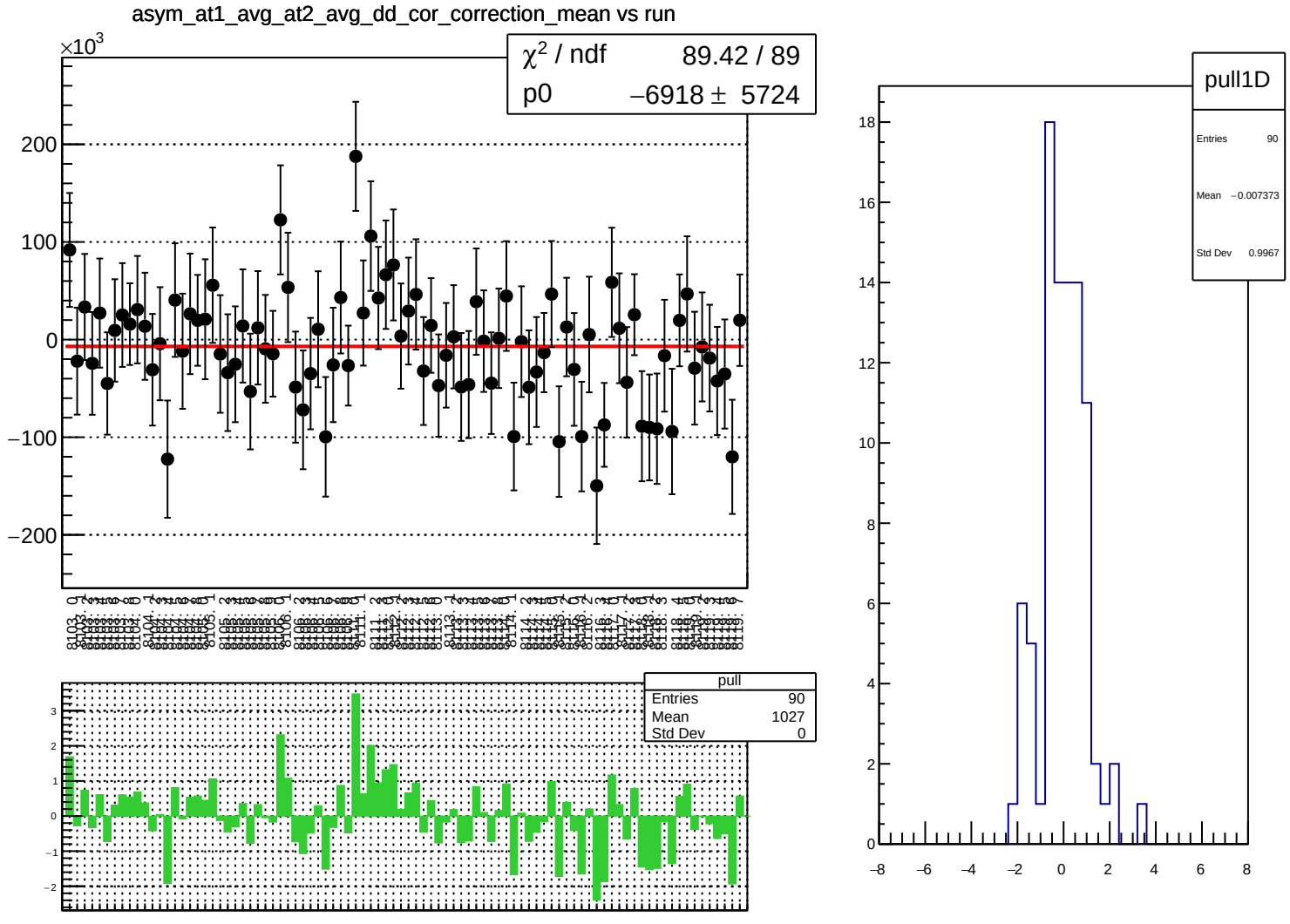

pull1D
Entries 90
Mean −0.007373
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

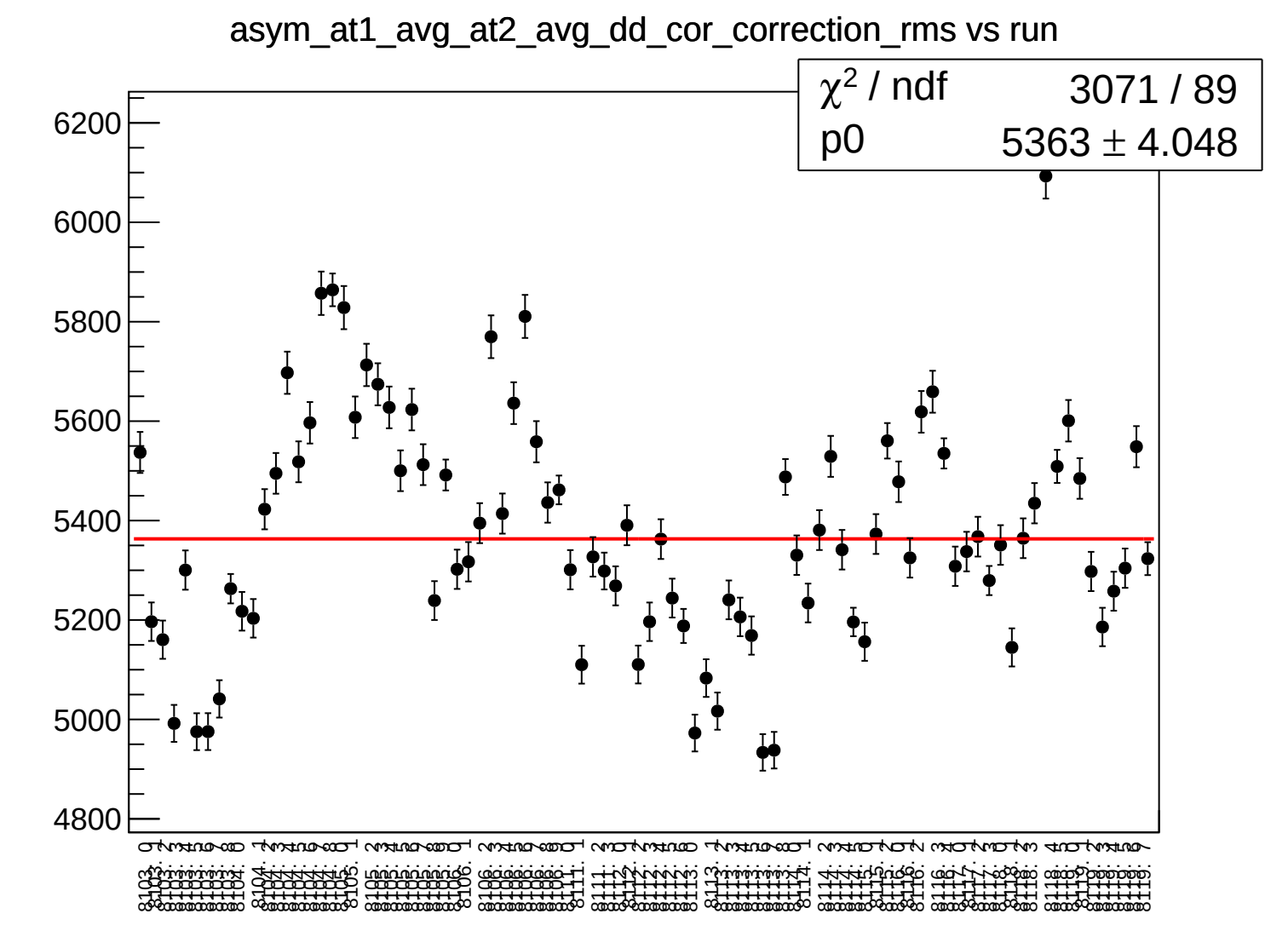

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 3071 / 89
p0 5363 ± 4.048
6200
6000
5800
5600
5400
5200
5000
4800

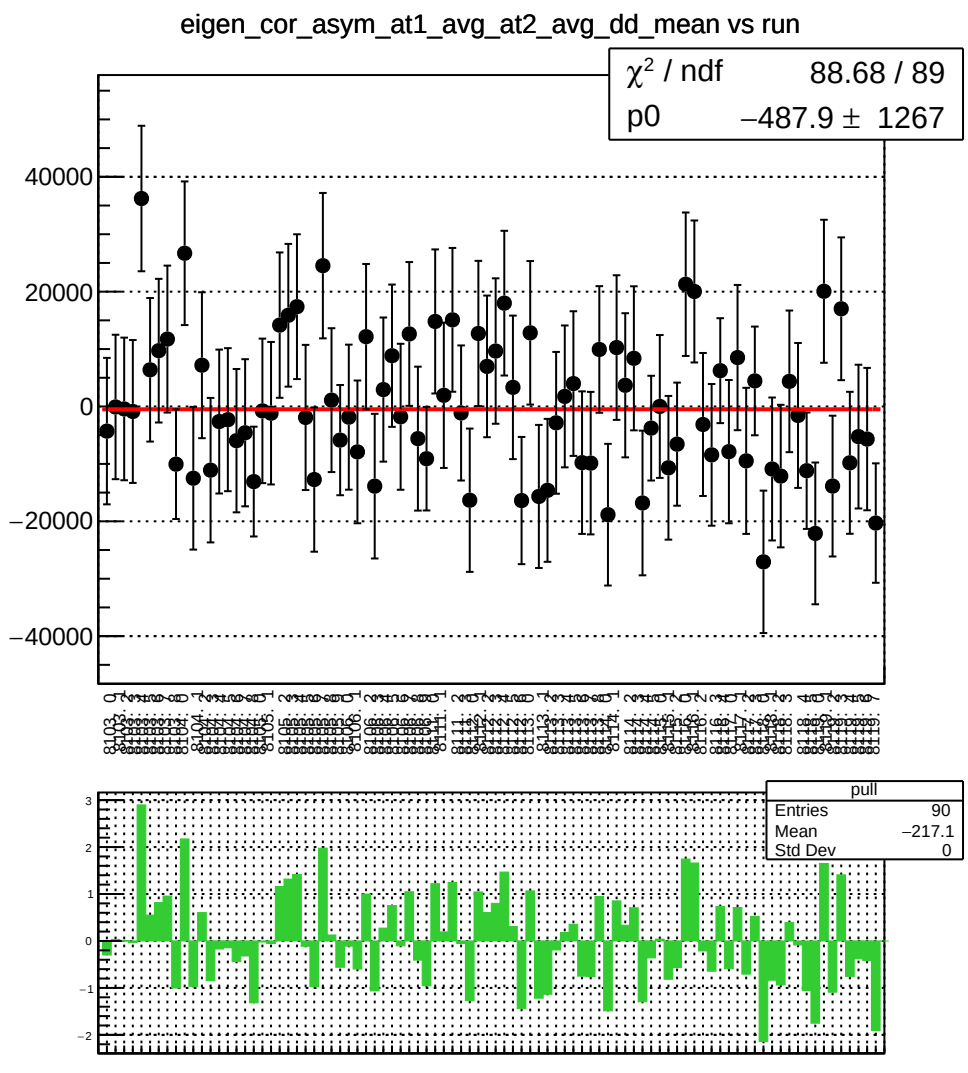

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 88.68 / 89
p0 −487.9 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −217.1
Std Dev 0
3
2
1
0
−1
−2

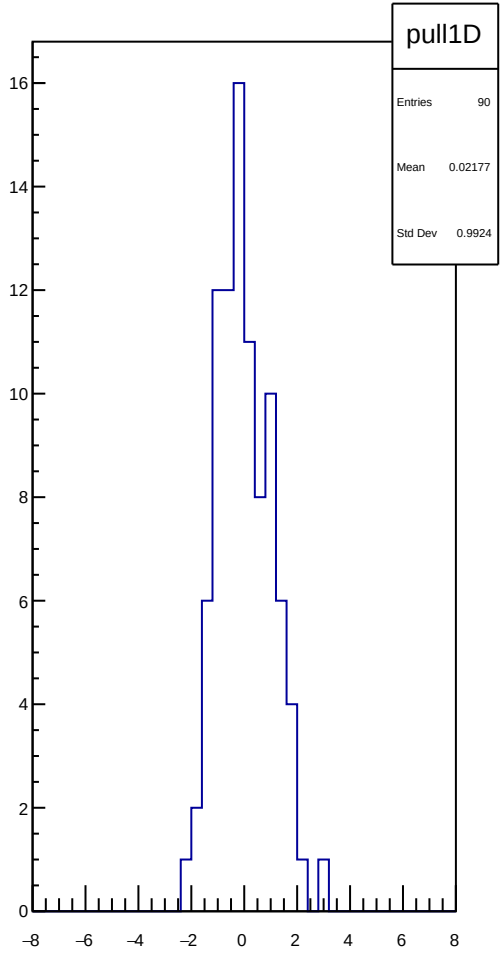

pull1D
Entries 90
Mean 0.02177
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

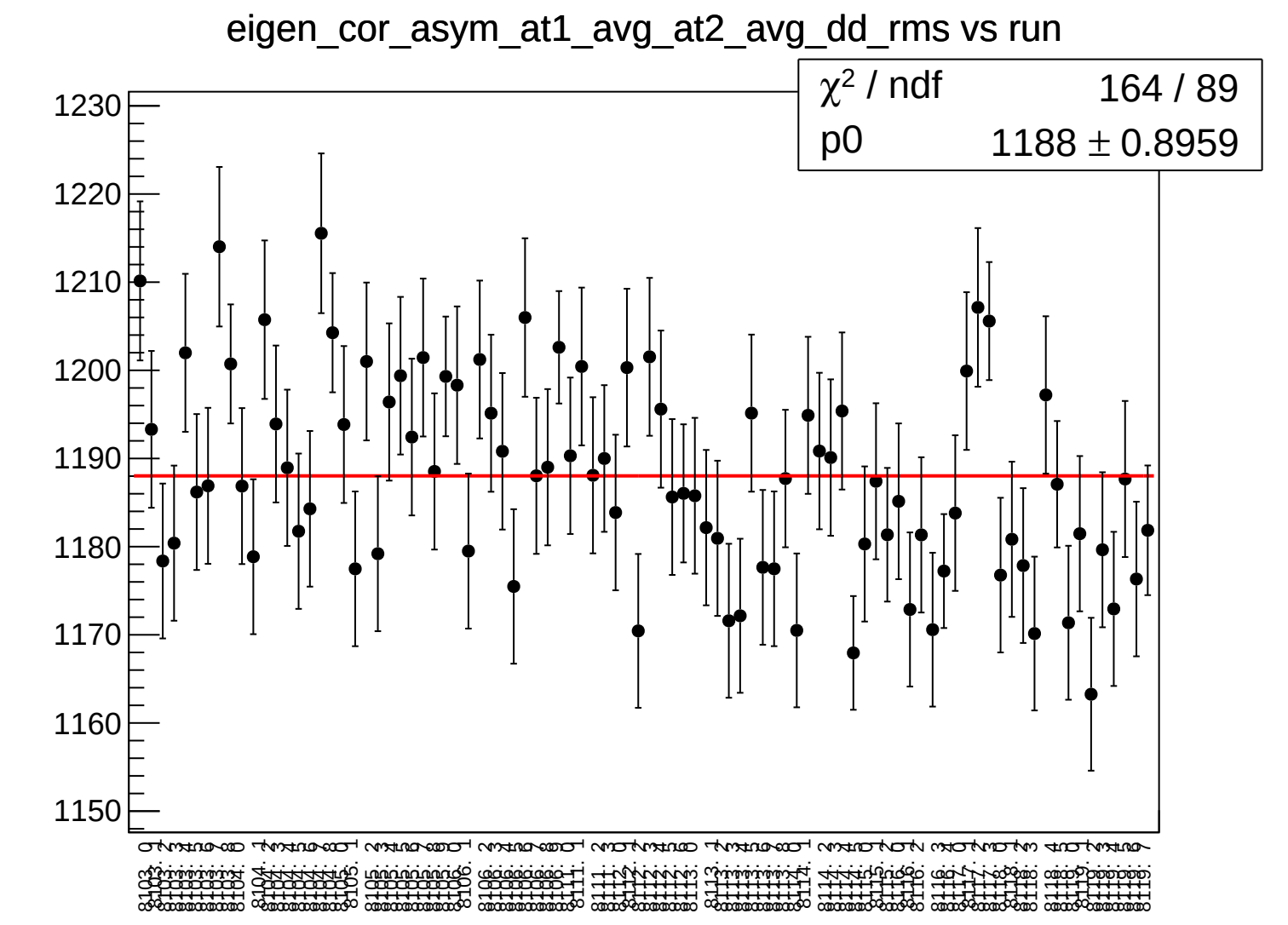

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 164 / 89
p0 1188 ± 0.8959
1230
1220
1210
1200
1190
1180
1170
1160
1150

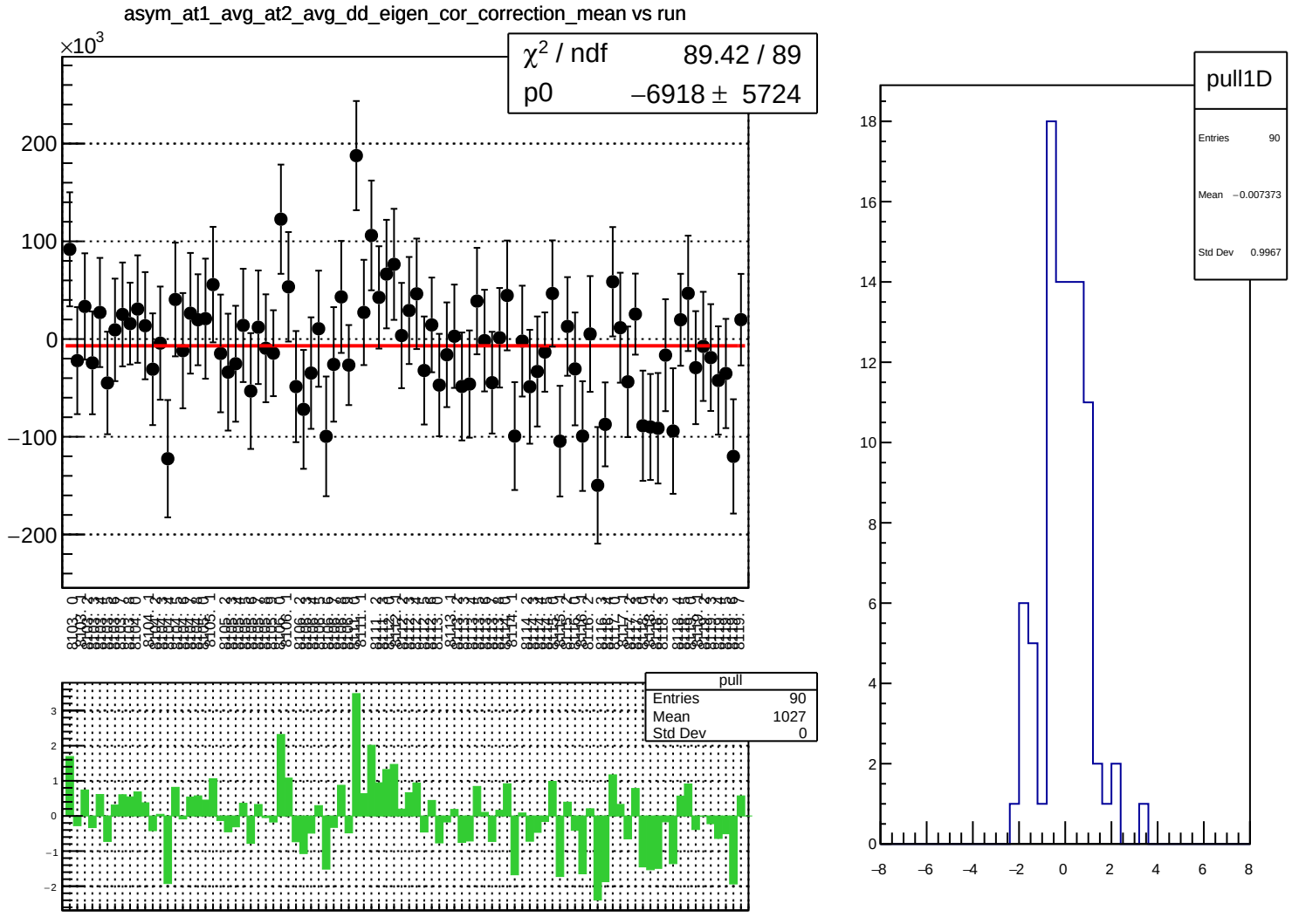

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.42 / 89
p0 −6918 ± 5724
200
100
0
−100
−200
pull
Entries 90
Mean 1027
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007373
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

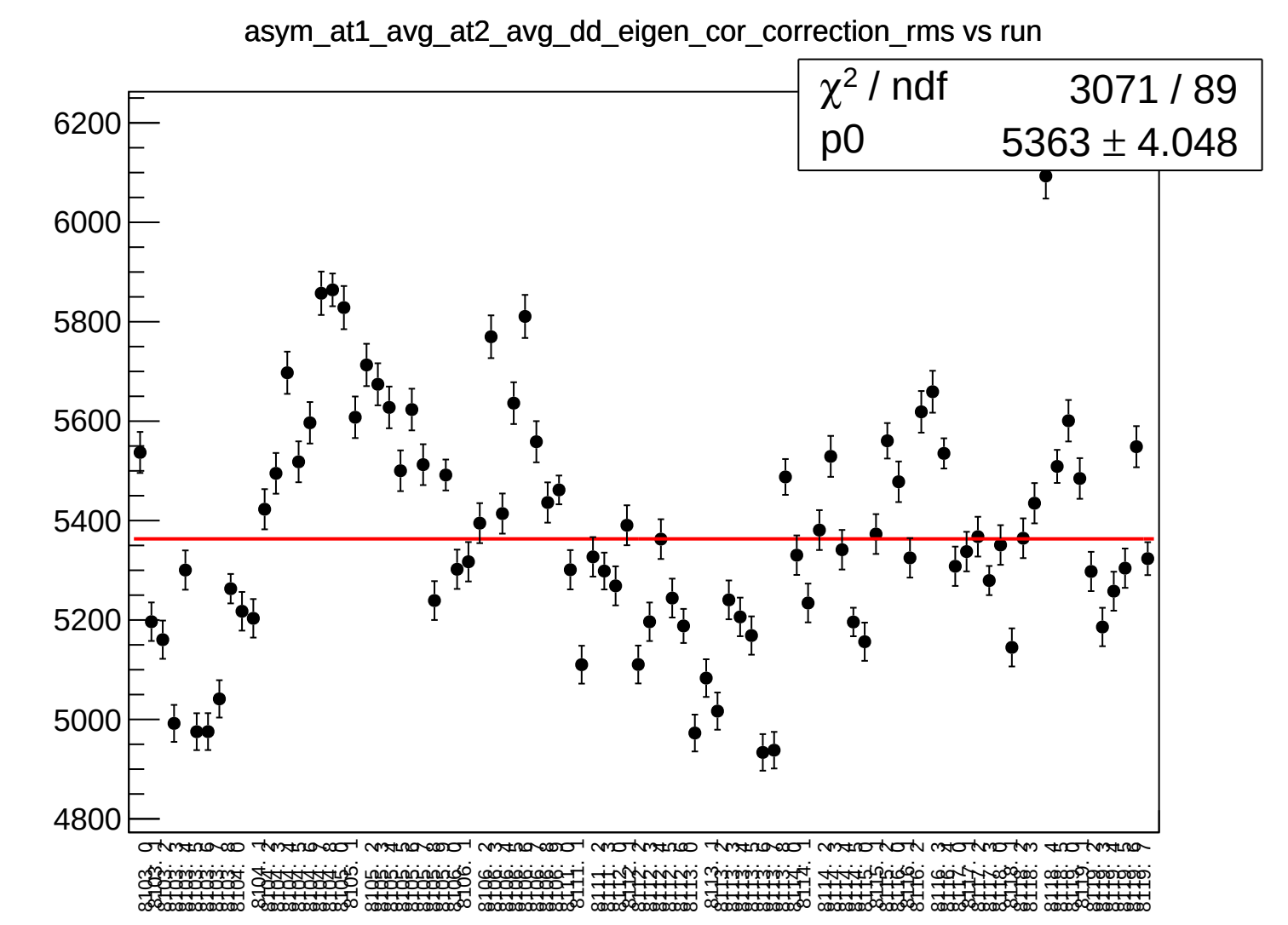

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3071 / 89
p0 5363 ± 4.048
6200
6000
5800
5600
5400
5200
5000
4800

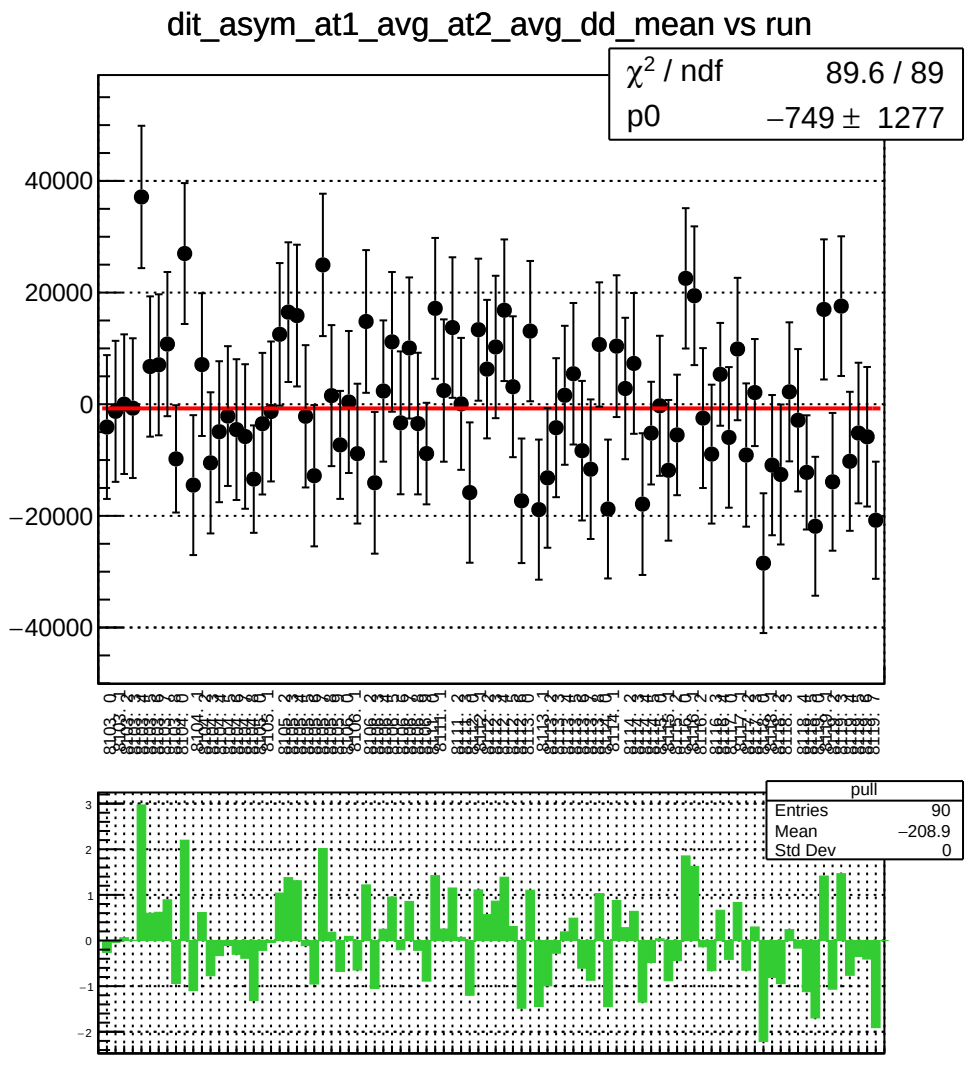

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 88.68 / 89
p0 −487.9 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −217.1
Std Dev 0
3
2
1
0
−1
−2

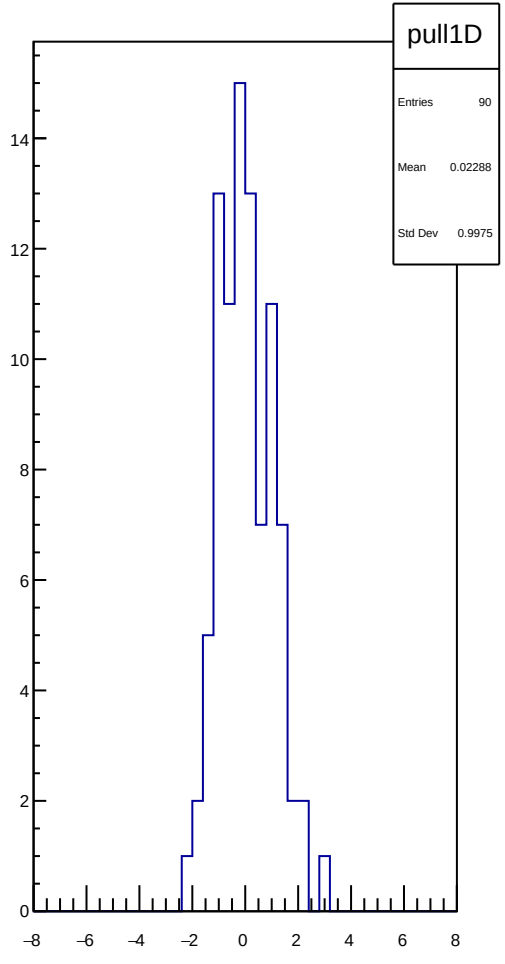

pull1D
Entries 90
Mean 0.02177
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

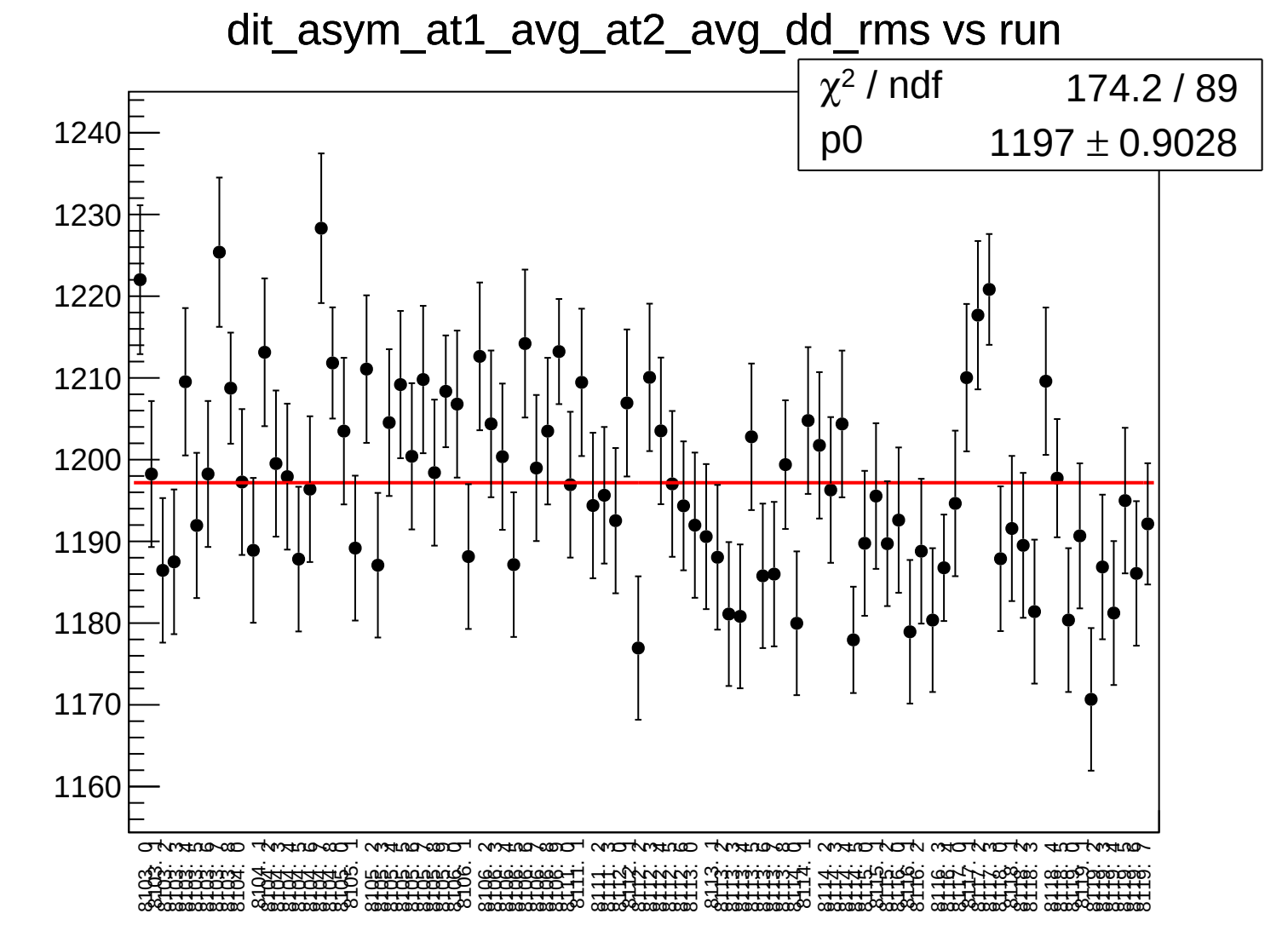

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 164 / 89
p0 1188 ± 0.8959
1230
1220
1210
1200
1190
1180
1170
1160
1150

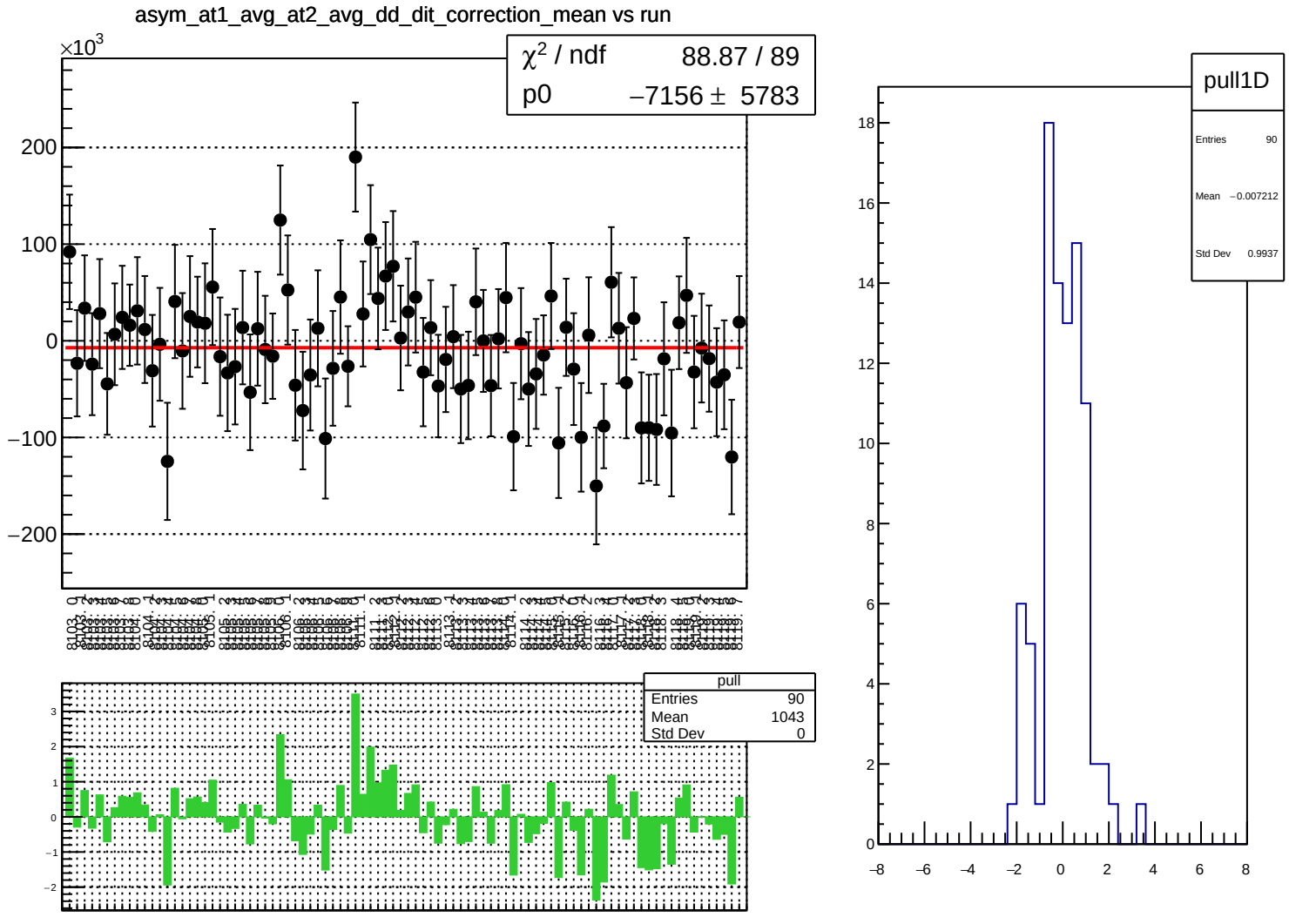

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.42 / 89
p0 −6918 ± 5724
200
100
0
−100
−200
pull
Entries 90
Mean 1027
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007373
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

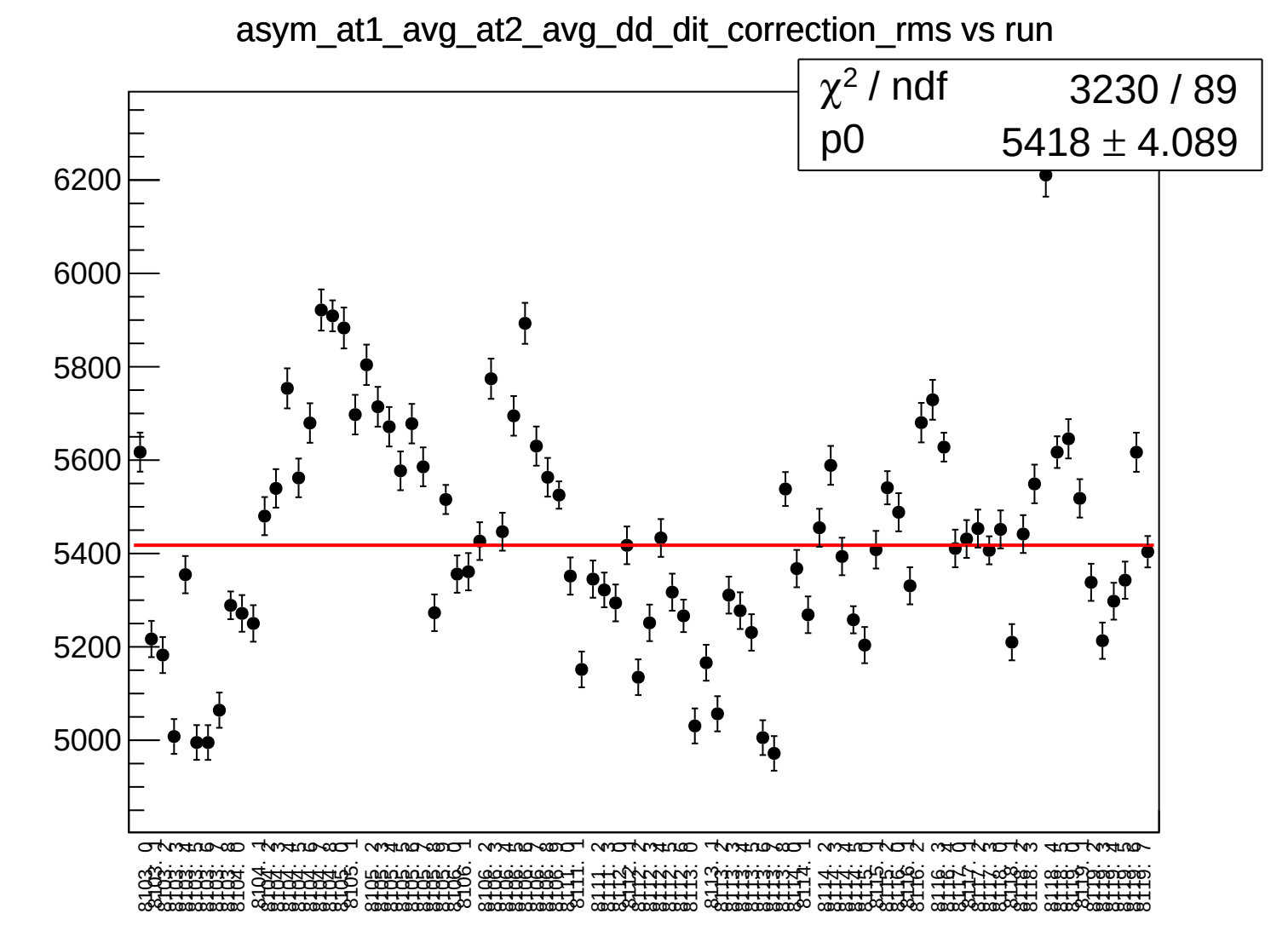

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3071 / 89
p0 5363 ± 4.048
6200
6000
5800
5600
5400
5200
5000
4800

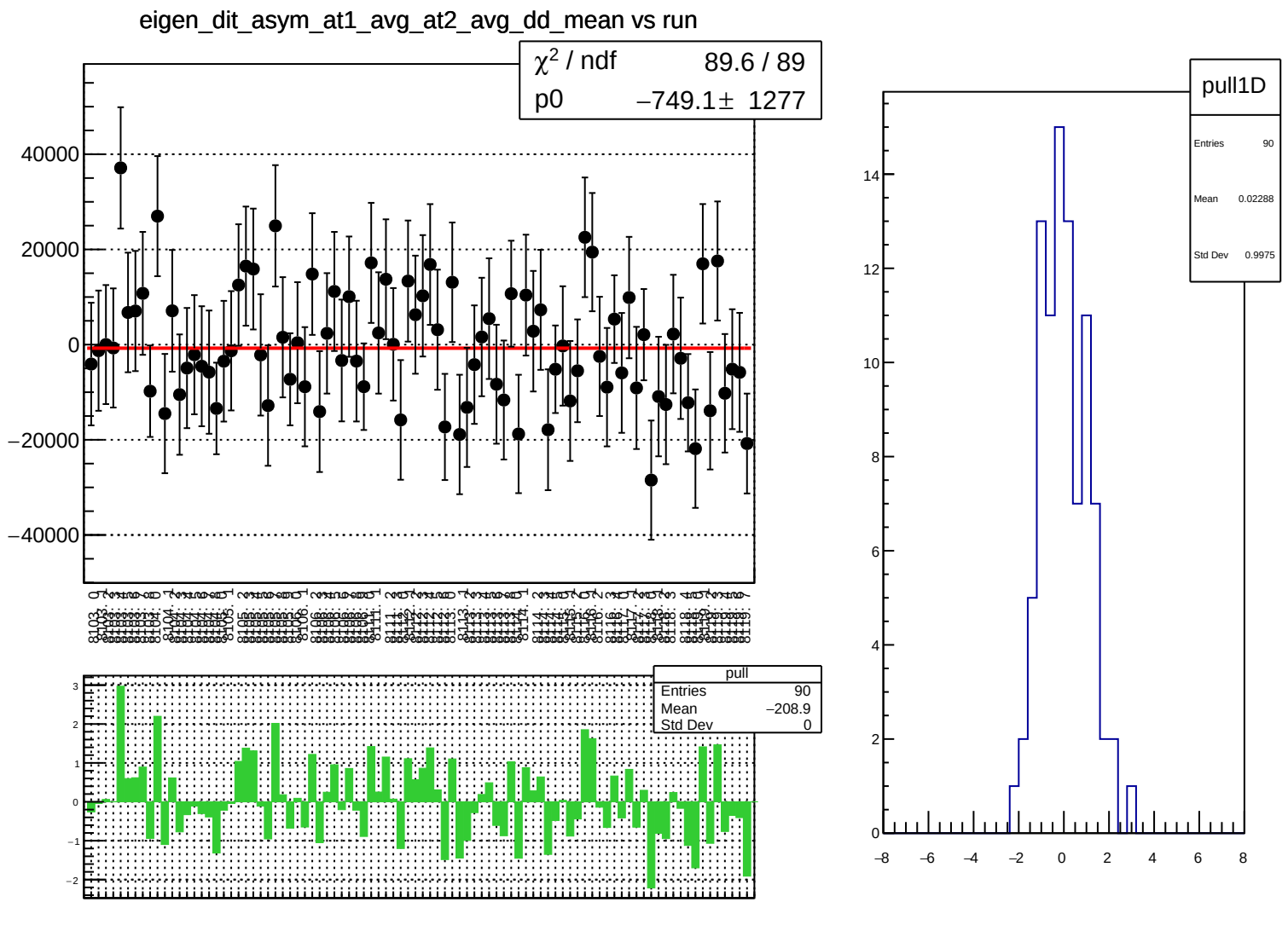

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.6 / 89
p0 −749 ± 1277
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −208.9
Std Dev 0
3
2
1
0
−1
−2

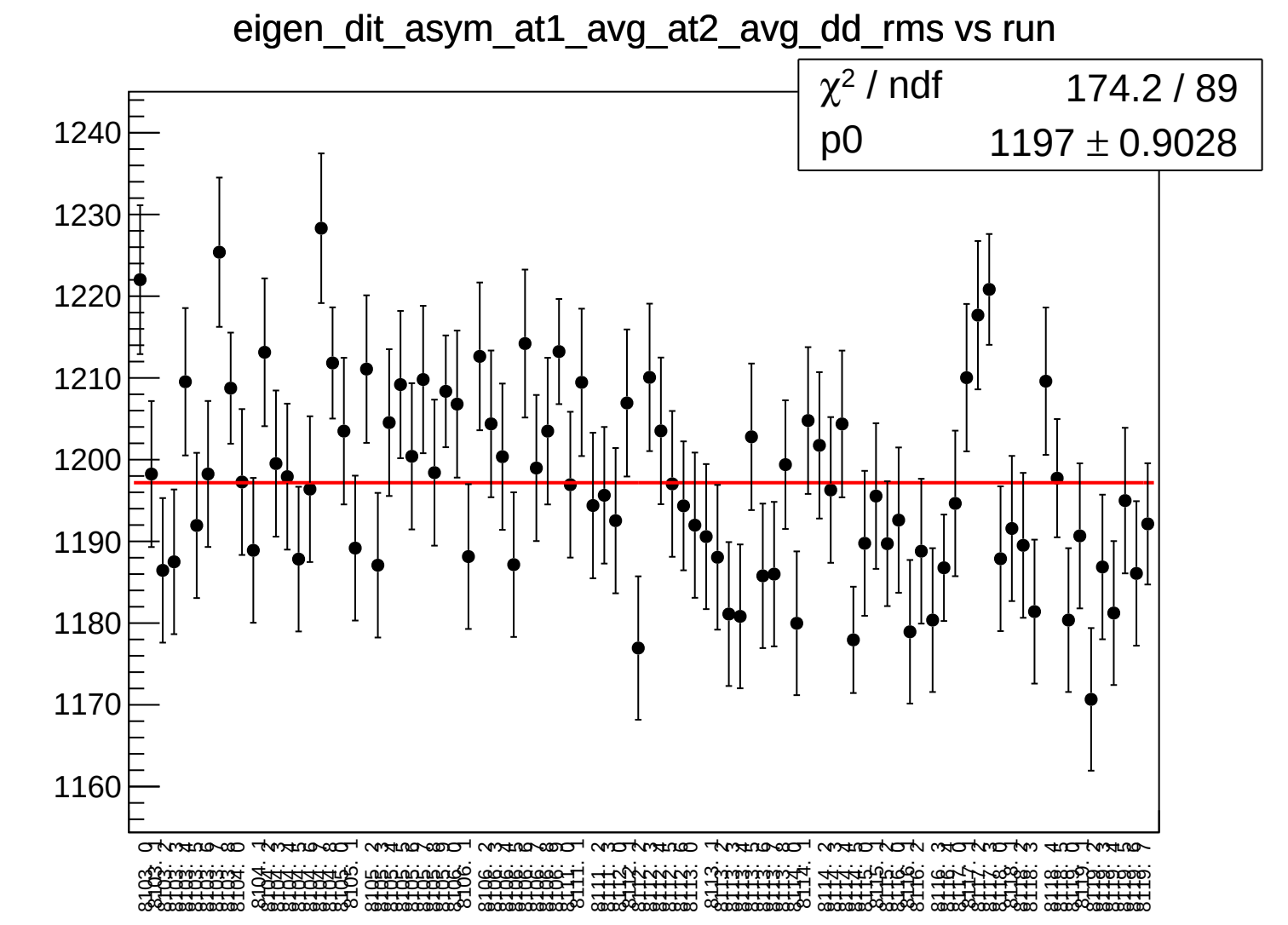

pull1D
Entries 90
Mean 0.02288
Std Dev 0.9975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

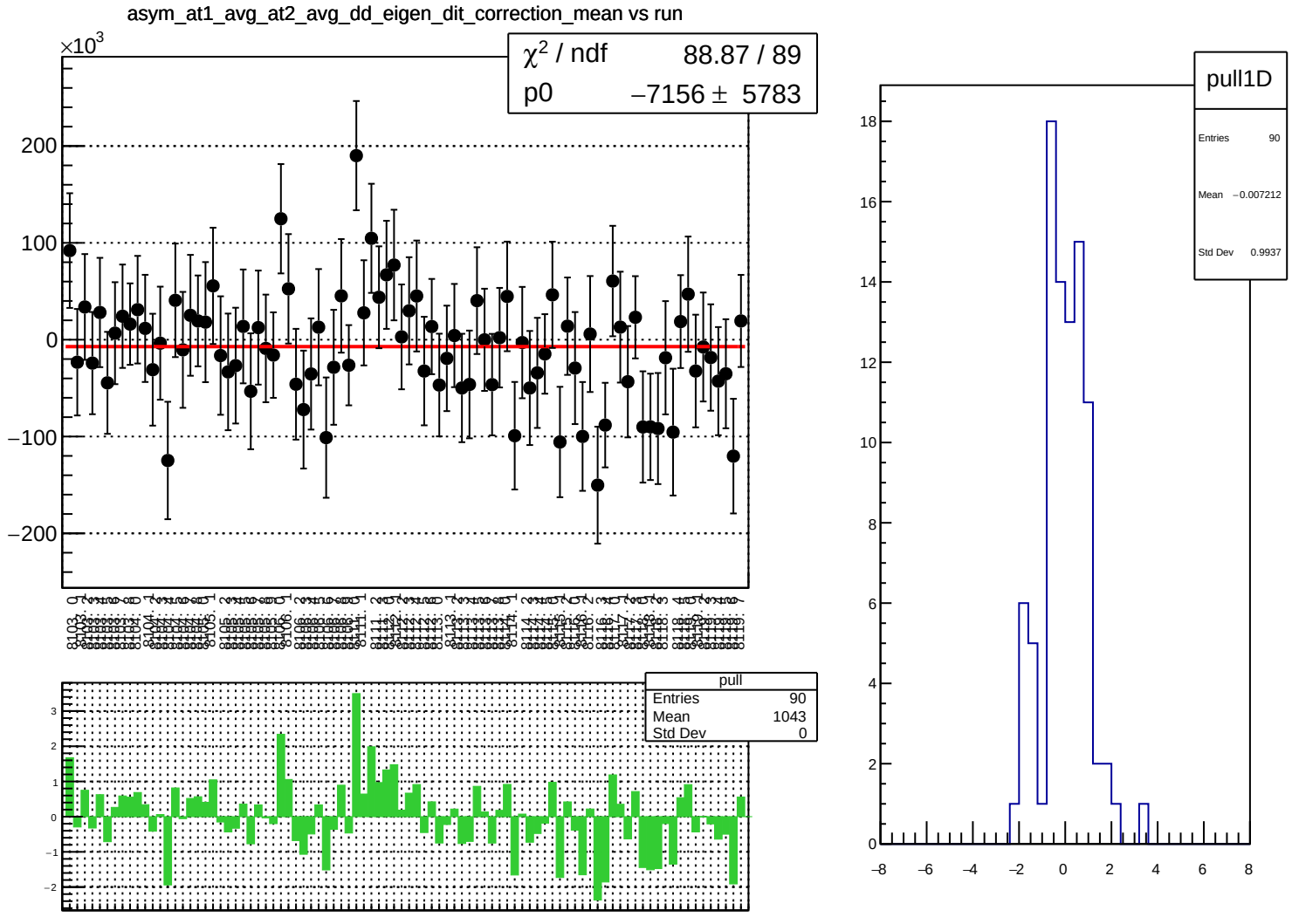

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 174.2 / 89
p0 1197 ± 0.9028
1240
1230
1220
1210
1200
1190
1180
1170
1160

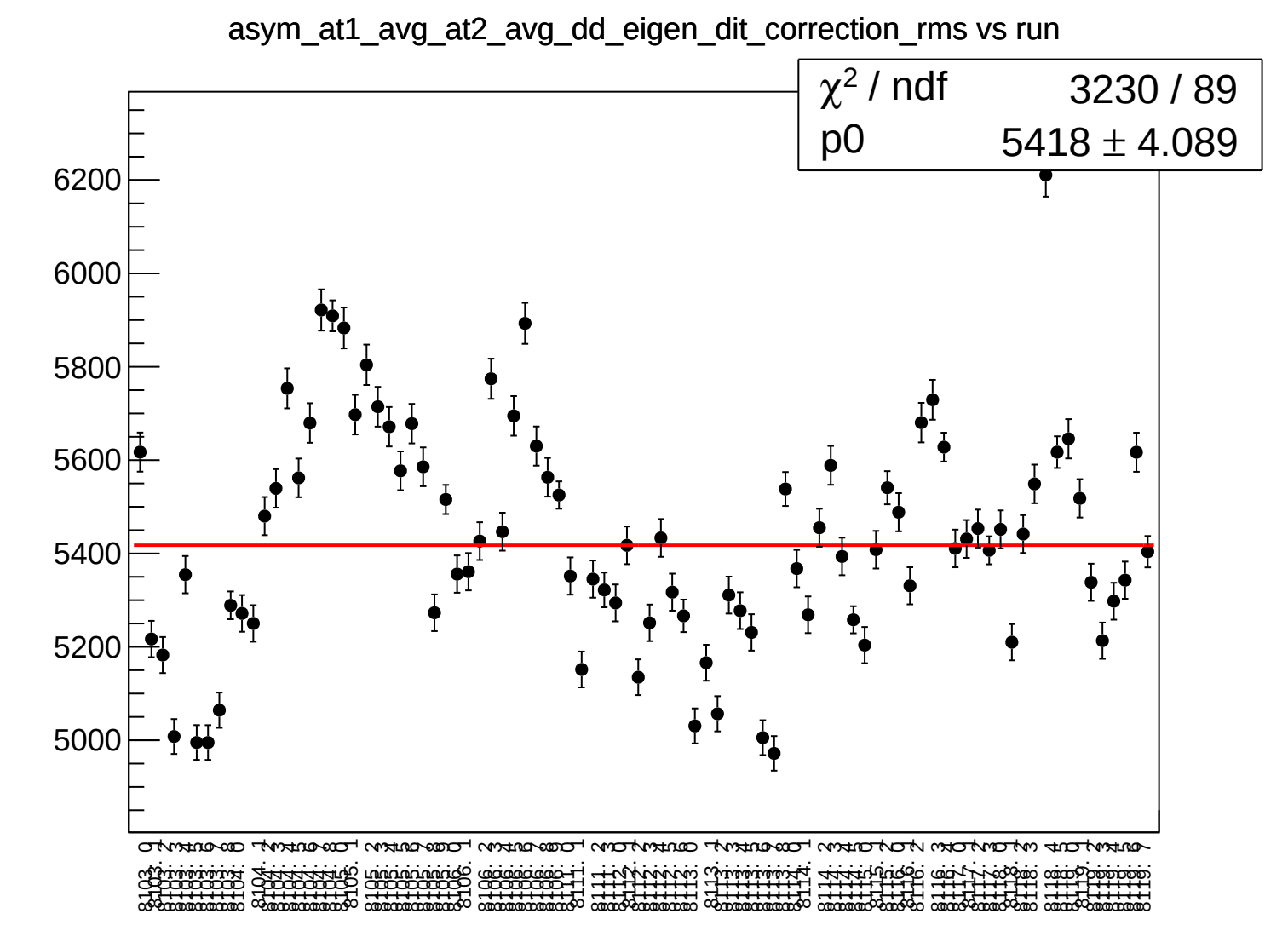

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.87 / 89
p0 −7156 ± 5783
200
100
0
−100
−200
pull
Entries 90
Mean 1043
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007212
Std Dev 0.9937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

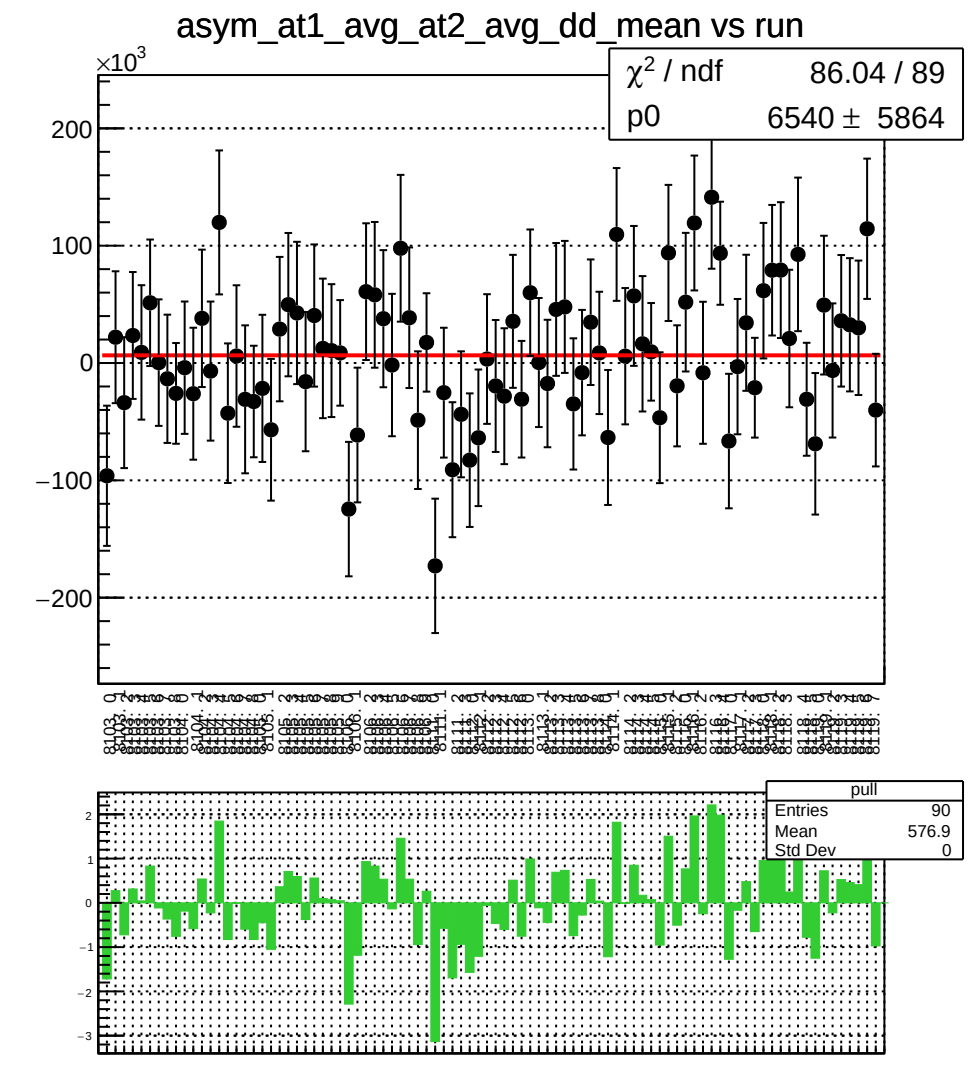

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3230 / 89
p0 5418 ± 4.089
6200
6000
5800
5600
5400
5200
5000

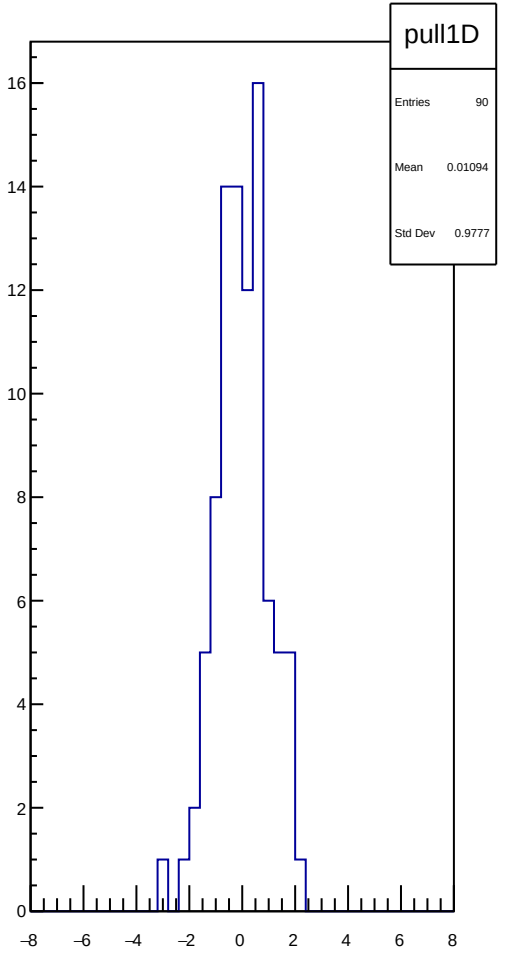

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.6 / 89
p0 −749.1± 1277
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −208.9
Std Dev 0
pull1D
Entries 90
Mean 0.02288
Std Dev 0.9975

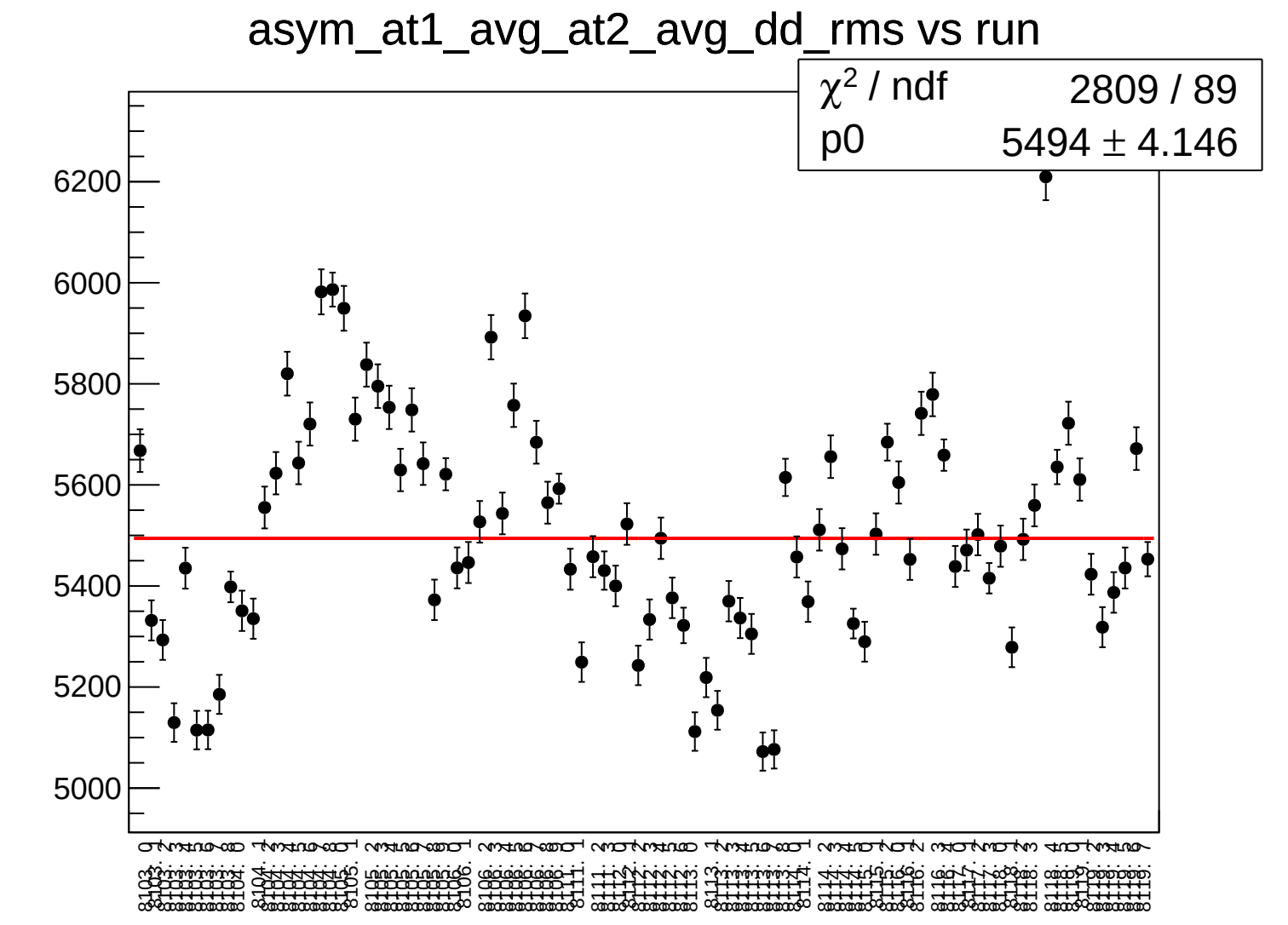

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 174.2 / 89
p0 1197 ± 0.9028
1240
1230
1220
1210
1200
1190
1180
1170
1160

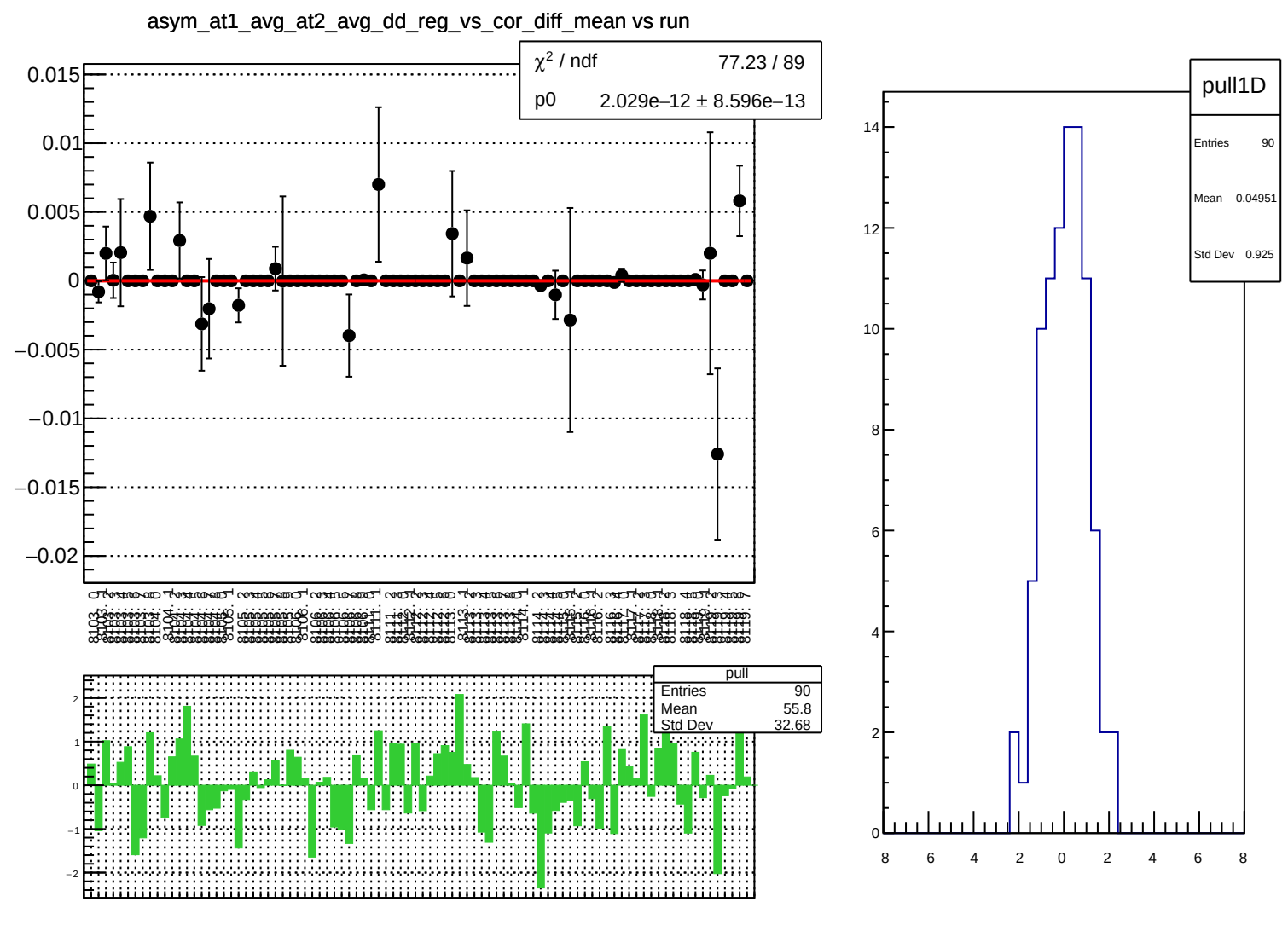

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.87 / 89
p0 −7156 ± 5783
200
100
0
−100
−200
pull
Entries 90
Mean 1043
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007212
Std Dev 0.9937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

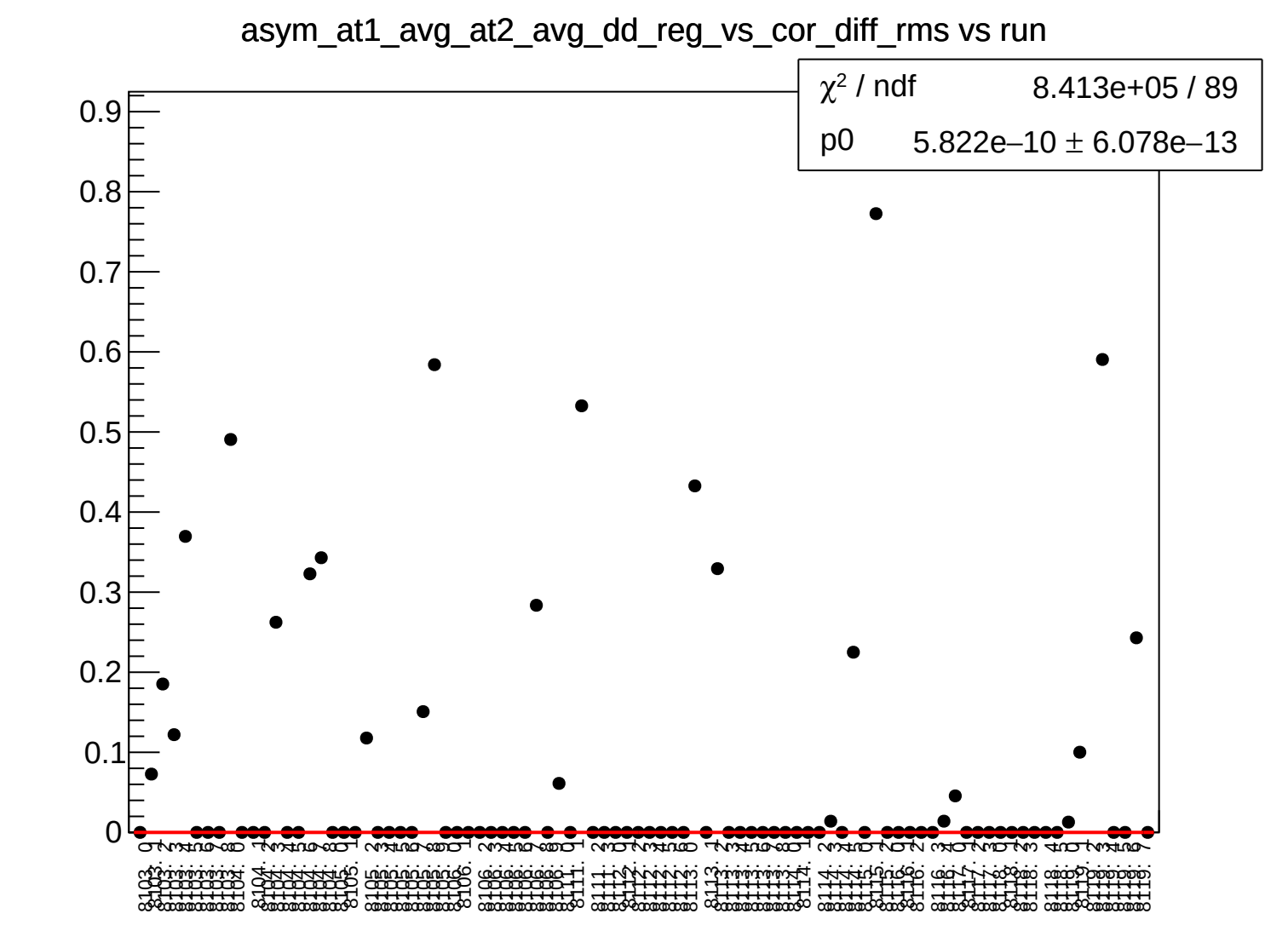

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3230 / 89
p0 5418 ± 4.089
6200
6000
5800
5600
5400
5200
5000

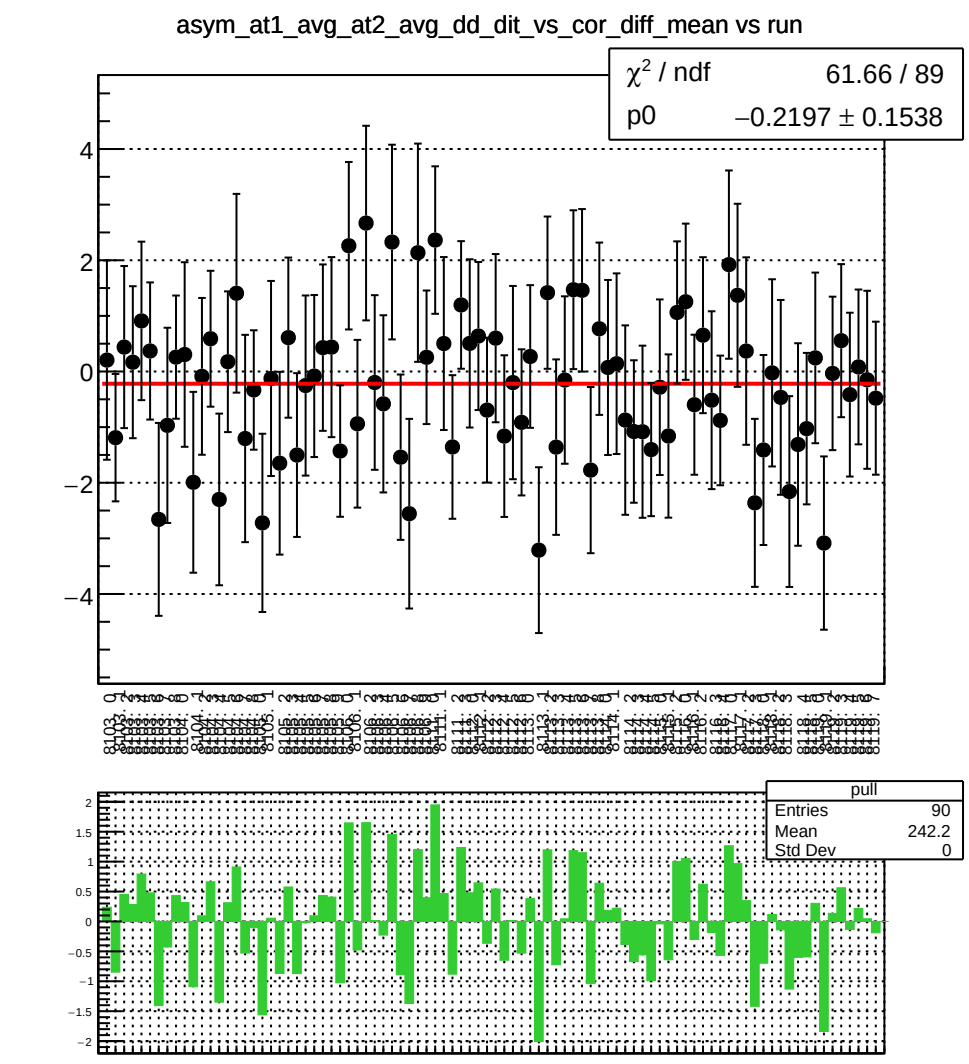

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 86.04 / 89
p0 6540 ± 5864
200
100
0
−100
−200
pull
Entries 90
Mean 576.9
Std Dev 0
2
1
0
−1
−2
−3

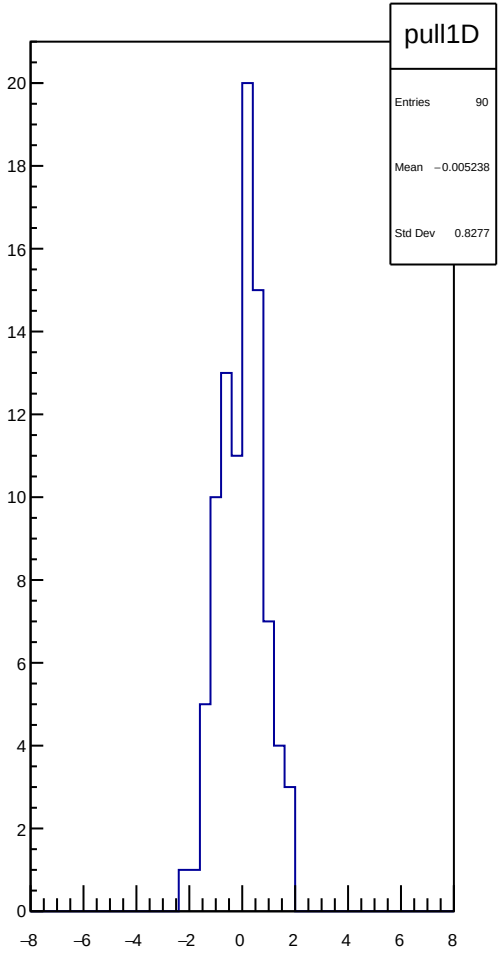

pull1D
Entries 90
Mean 0.01094
Std Dev 0.9777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

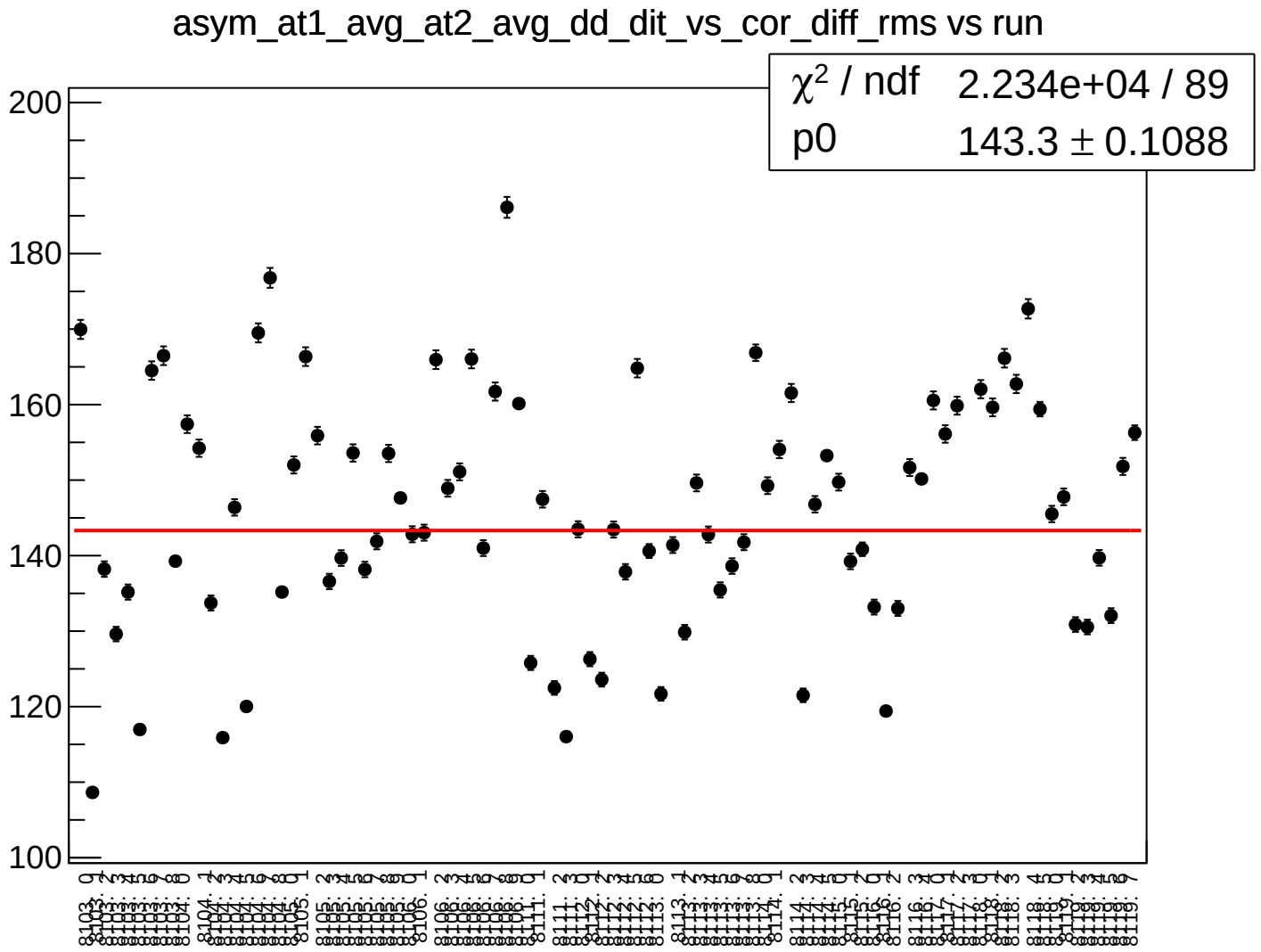

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2809 / 89
p0 5494 ± 4.146
6200
6000
5800
5600
5400
5200
5000


asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.23 / 89
p0 2.029e−12 ± 8.596e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 90
Mean 55.8
Std Dev 32.68
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.04951
Std Dev 0.925
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

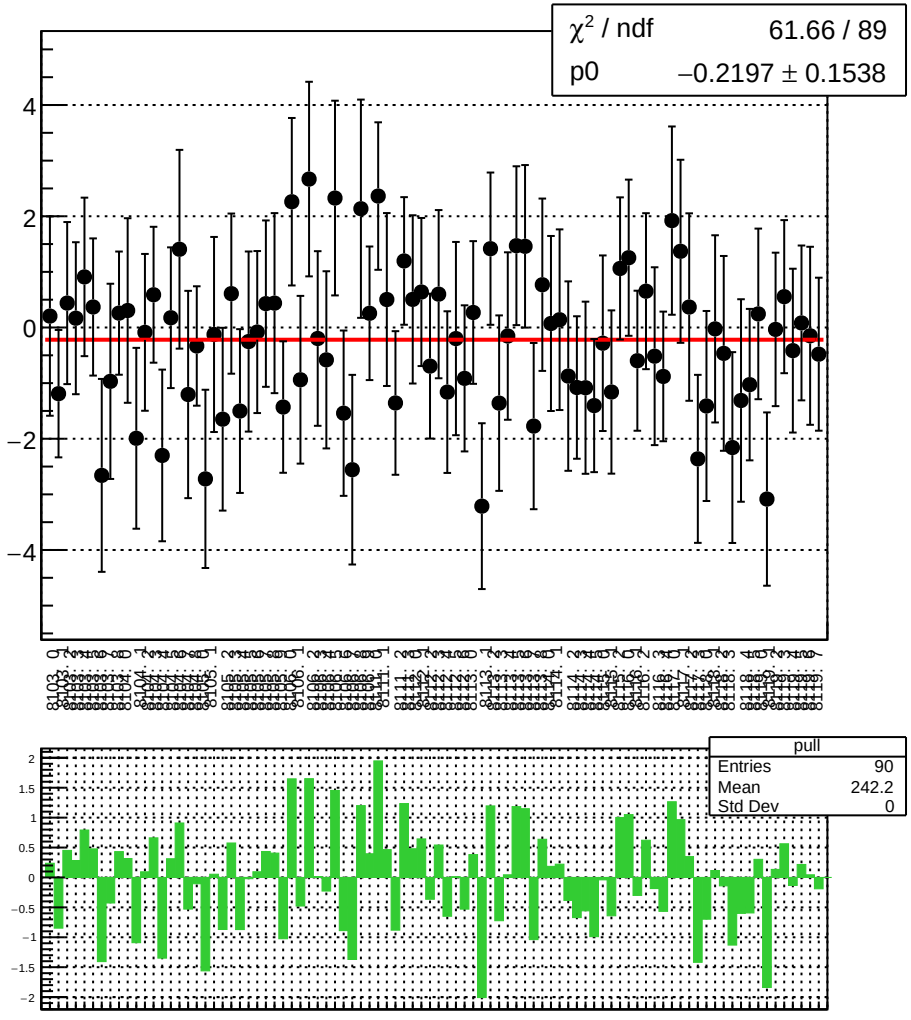

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.413e+05 / 89
p0 5.822e−10 ± 6.078e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

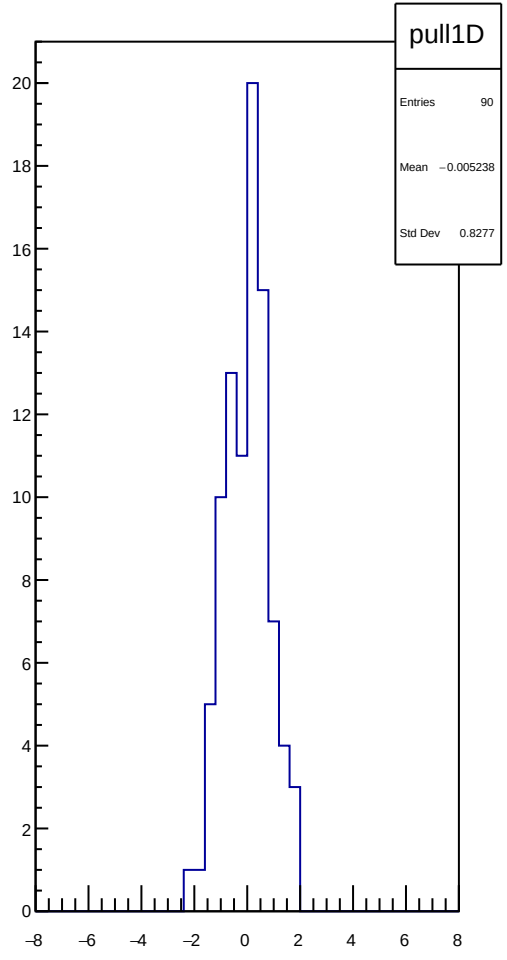

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.66 / 89
p0 −0.2197 ± 0.1538
pull
Entries 90
Mean 242.2
Std Dev 0

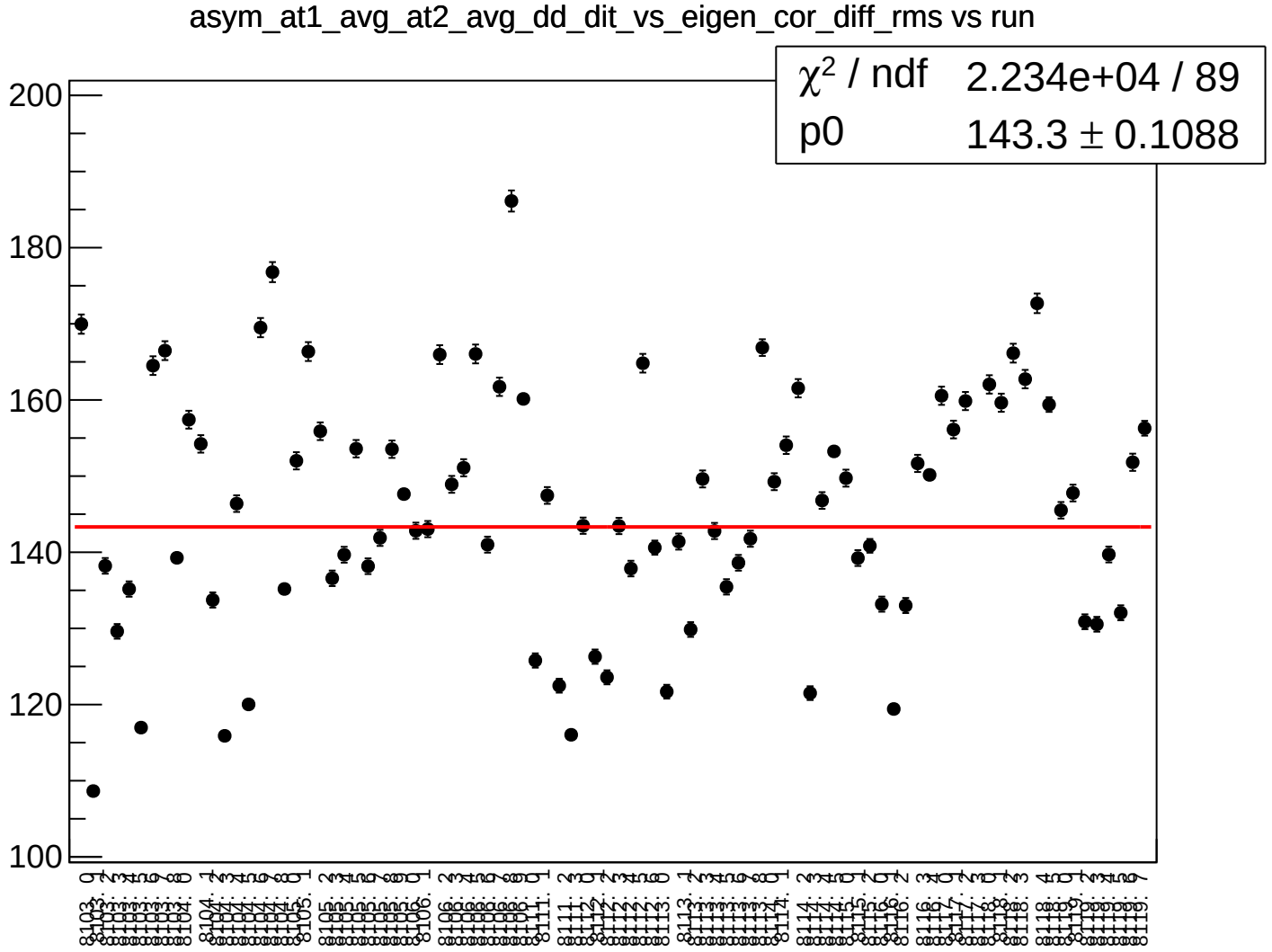

pull1D
Entries 90
Mean −0.005238
Std Dev 0.8277

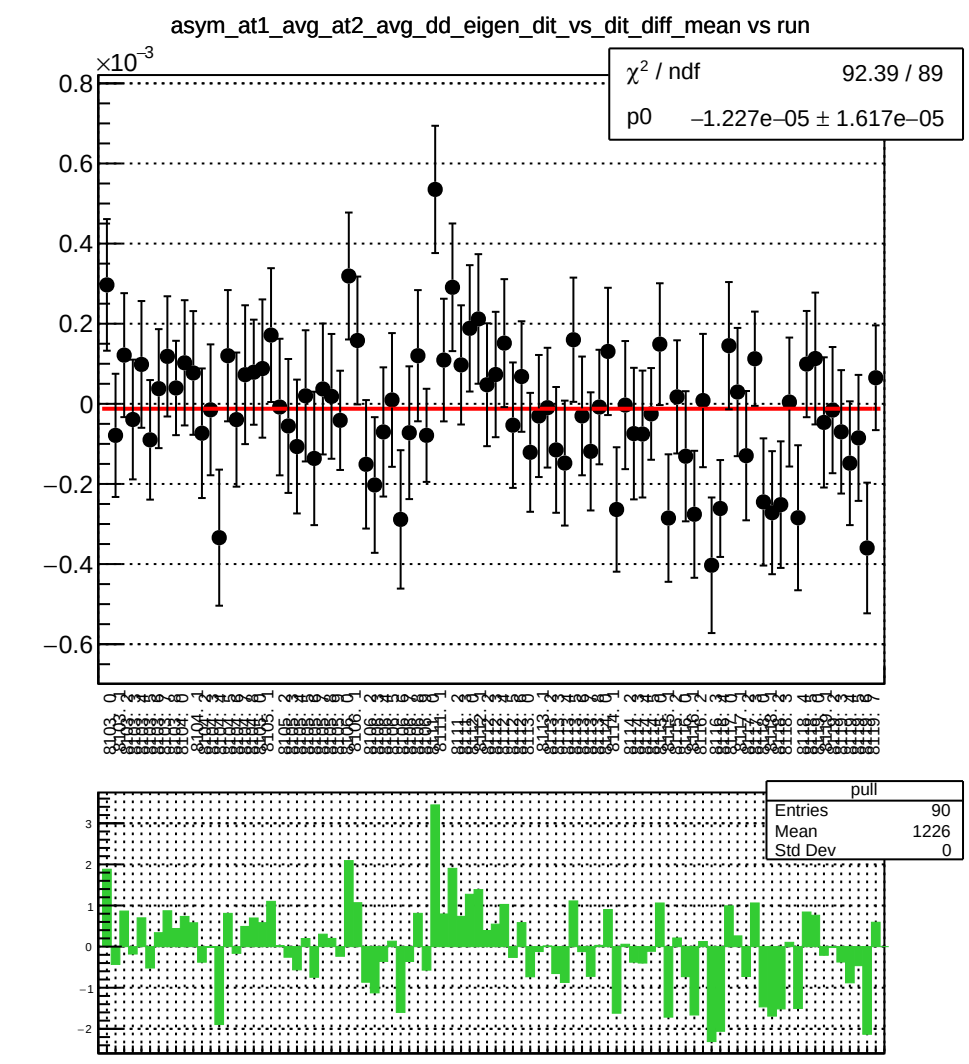

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

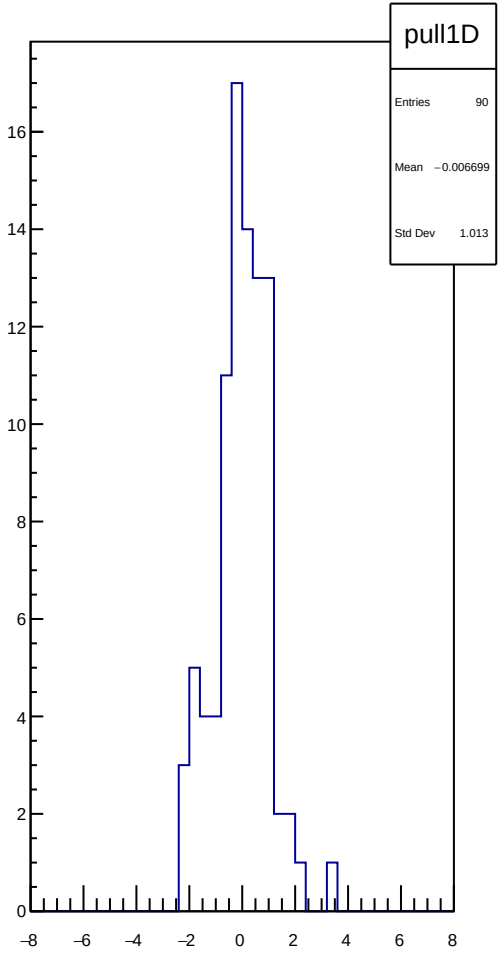
asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run

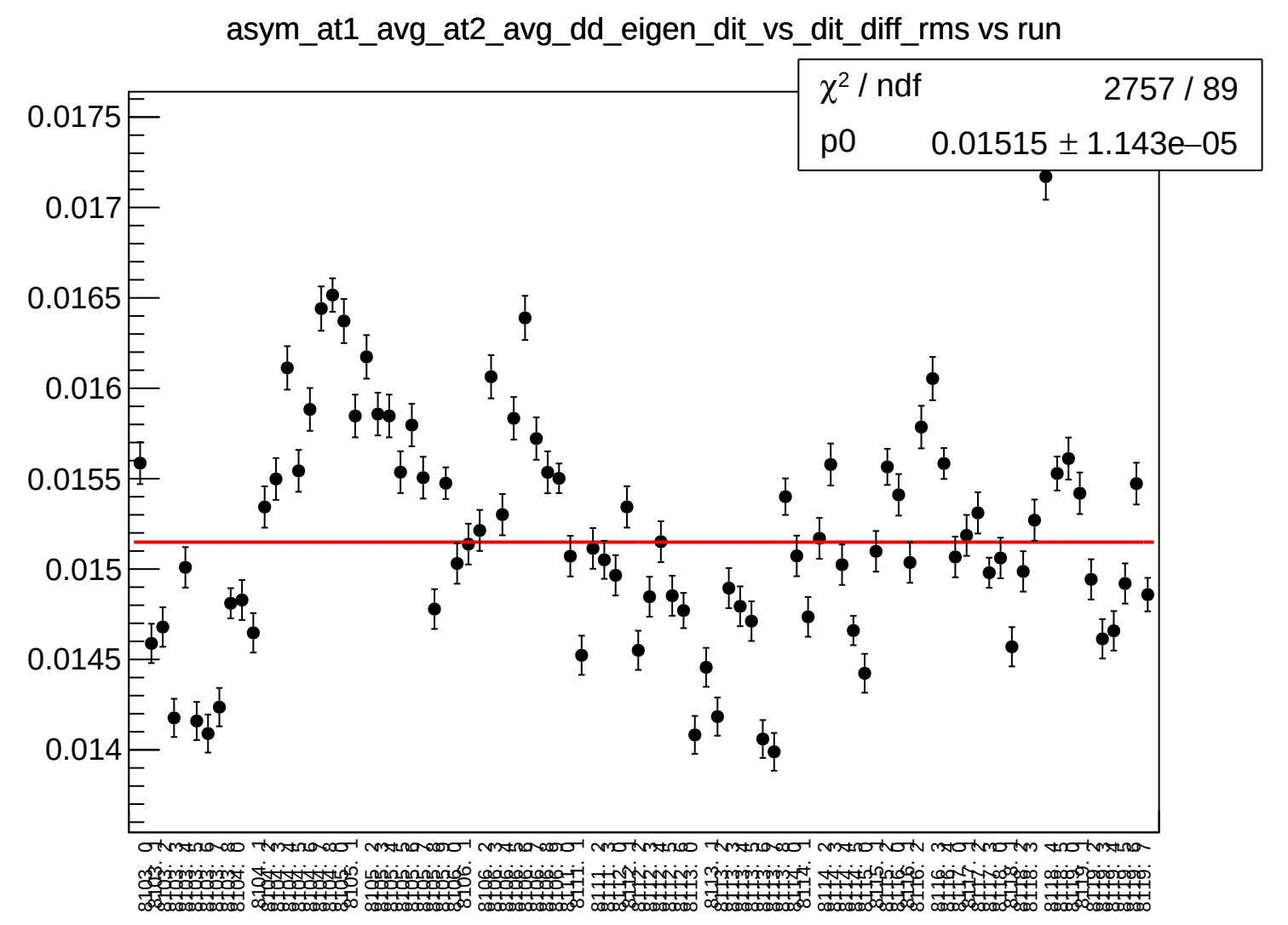




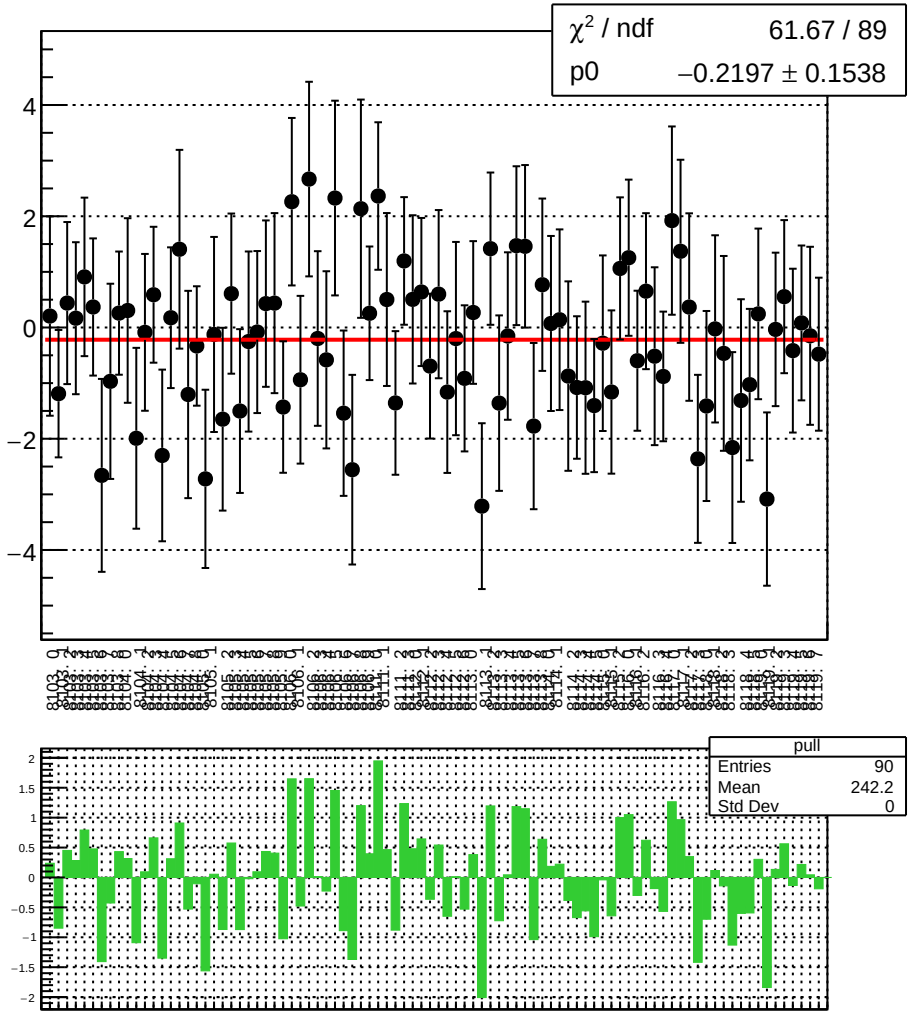

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

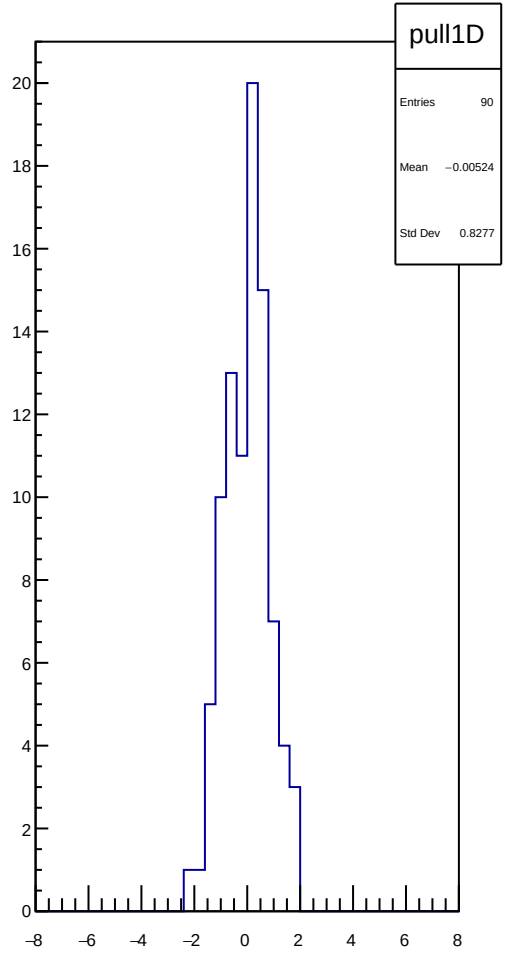

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.39 / 89
p0 −1.227e−05 ± 1.617e−05
pull
Entries 90
Mean 1226
Std Dev 0

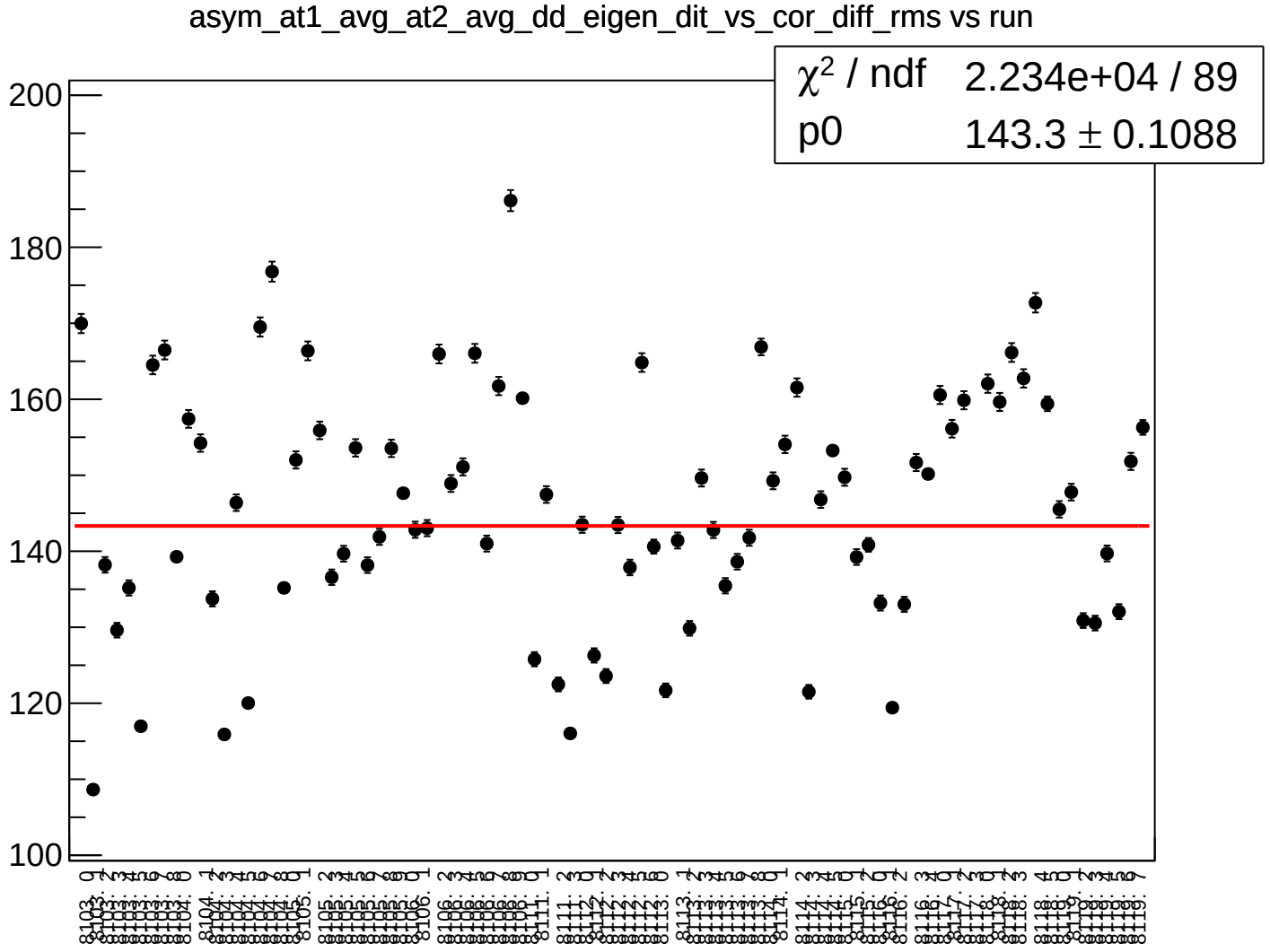

pull1D
Entries 90
Mean −0.006699
Std Dev 1.013


asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2757 / 89
p0 0.01515 ± 1.143e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

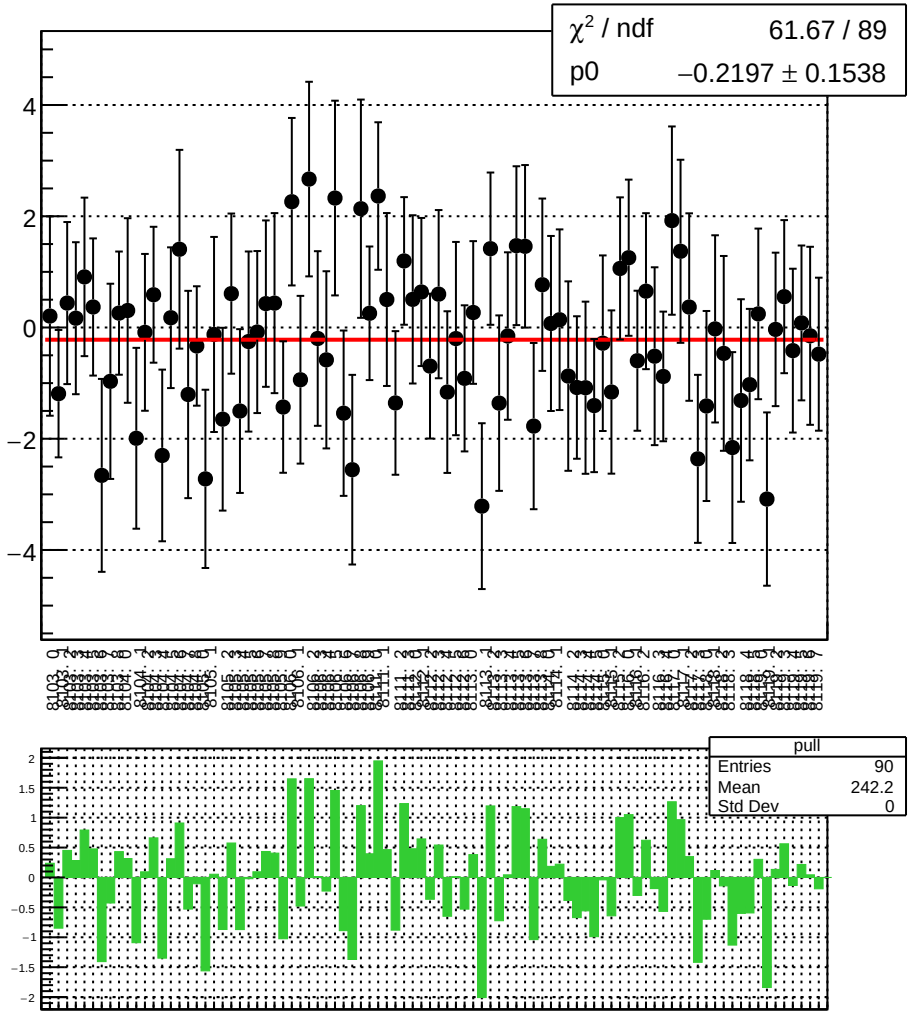
asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run

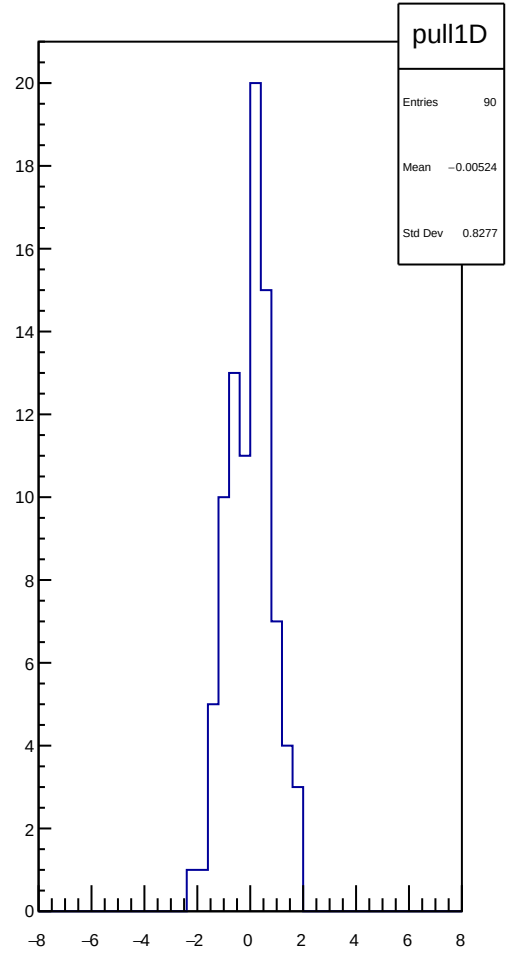


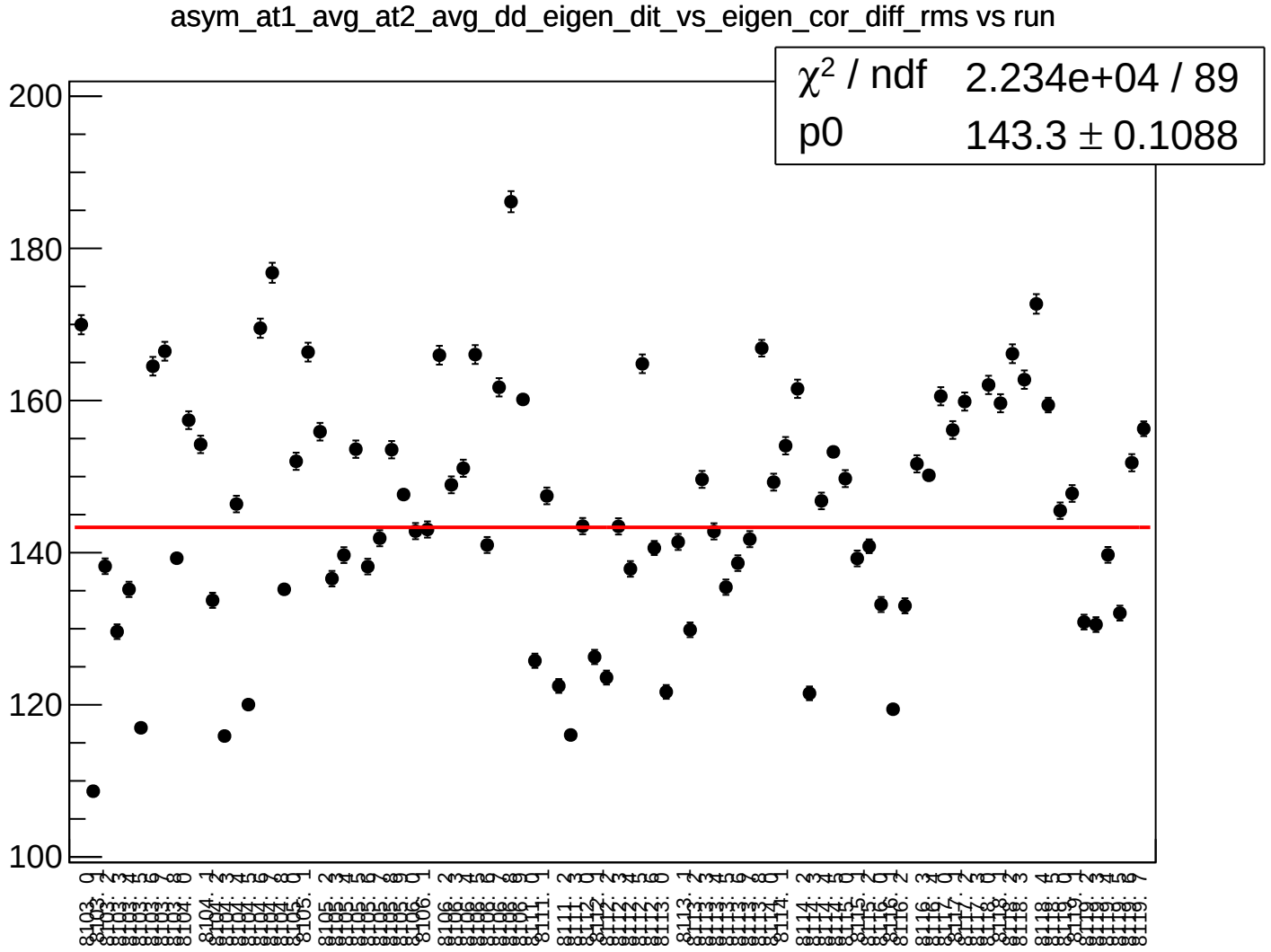


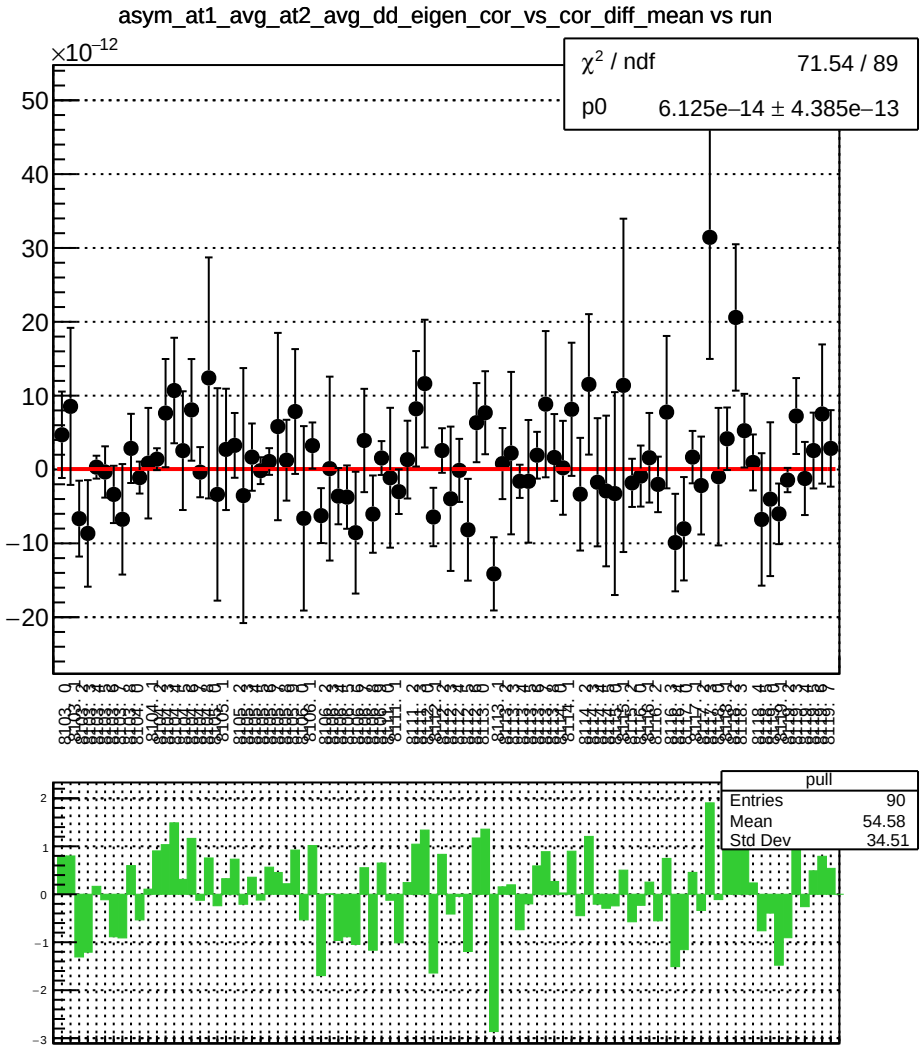

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

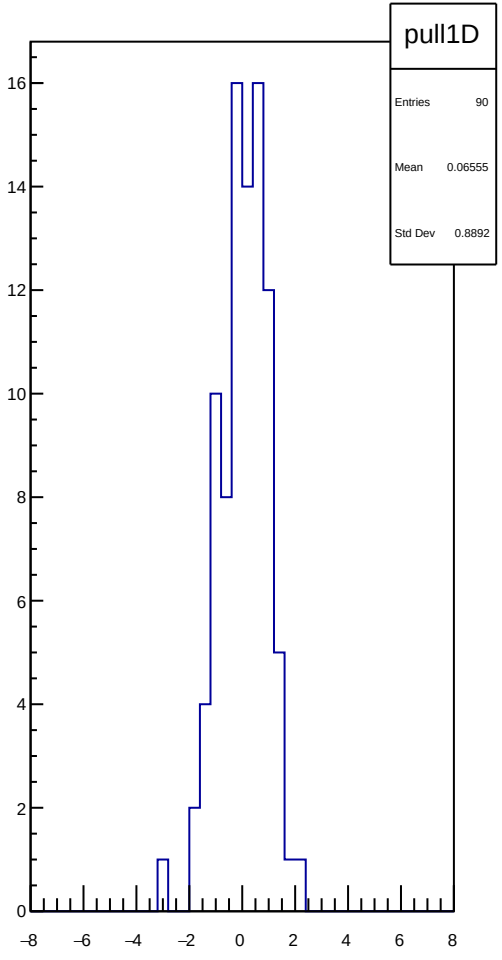
asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

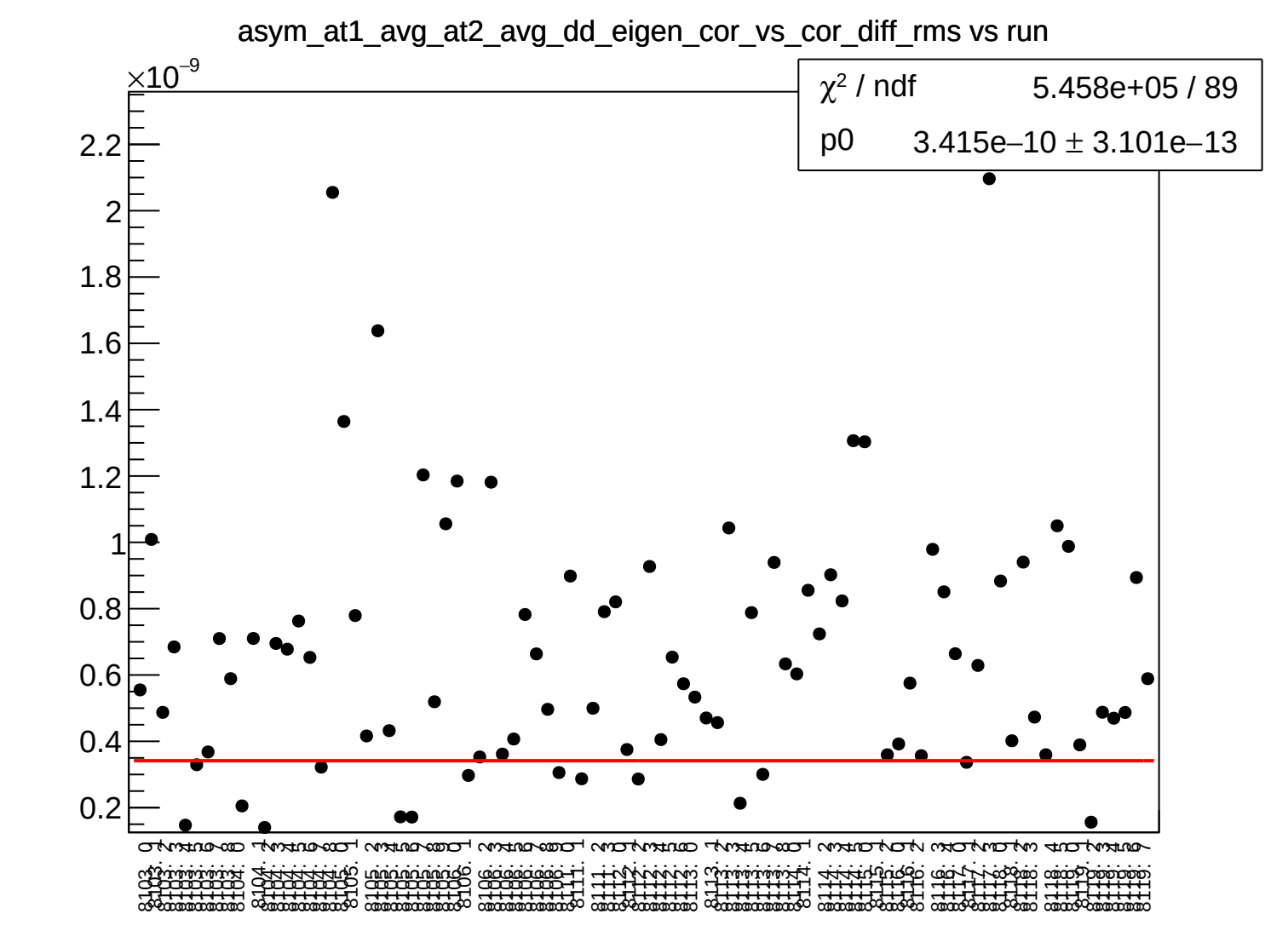


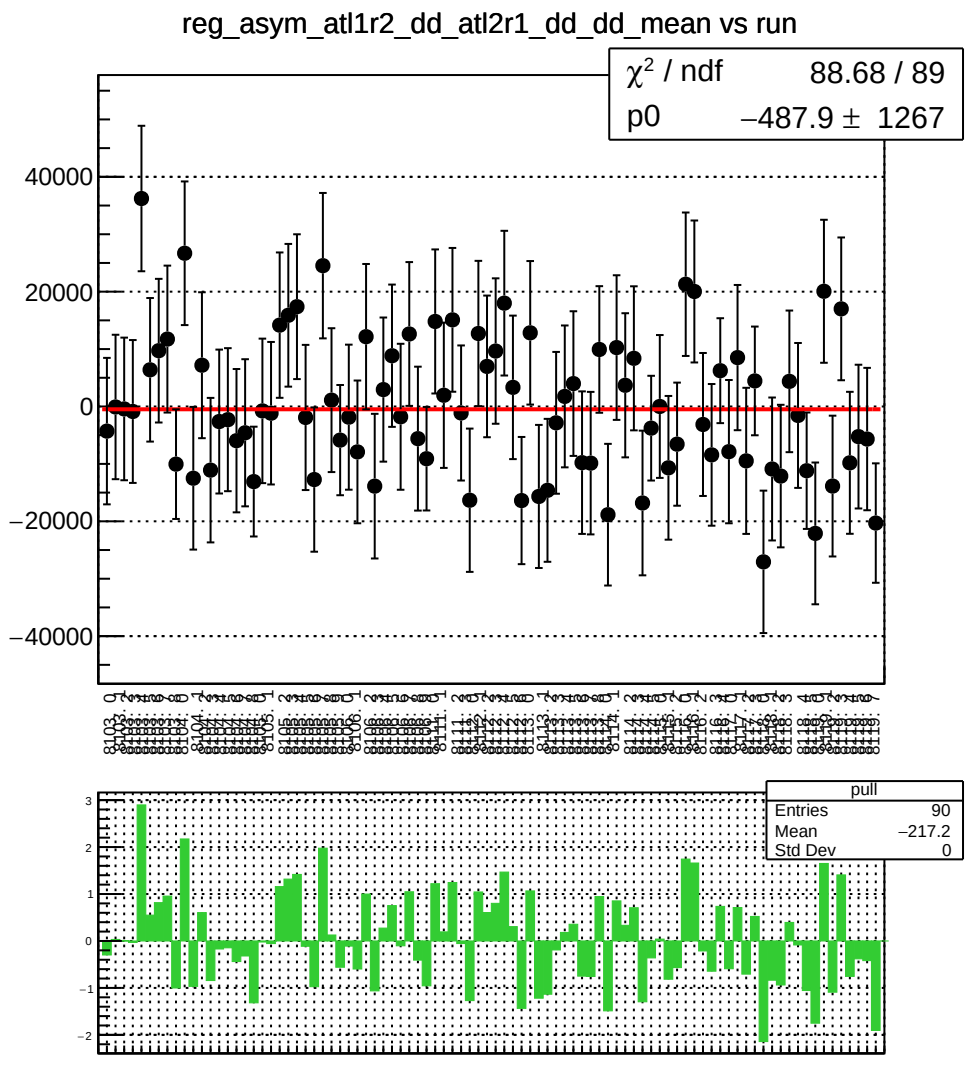


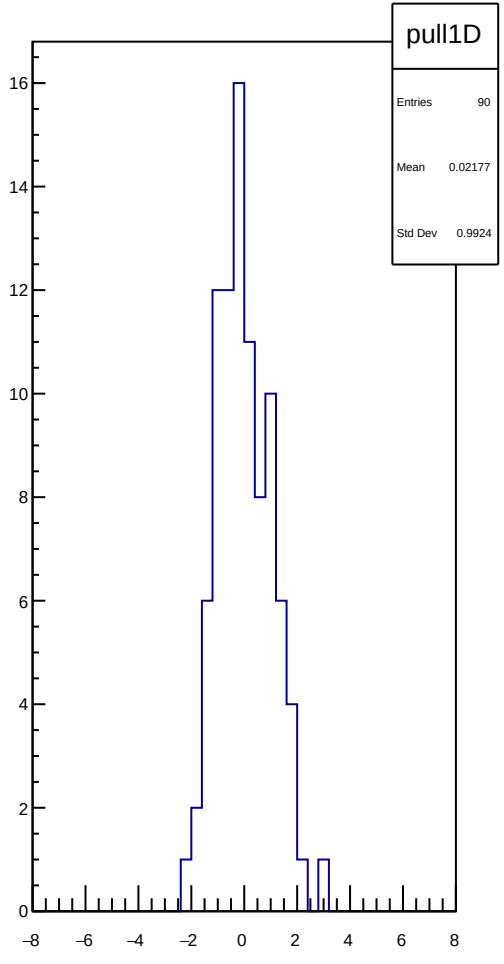

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

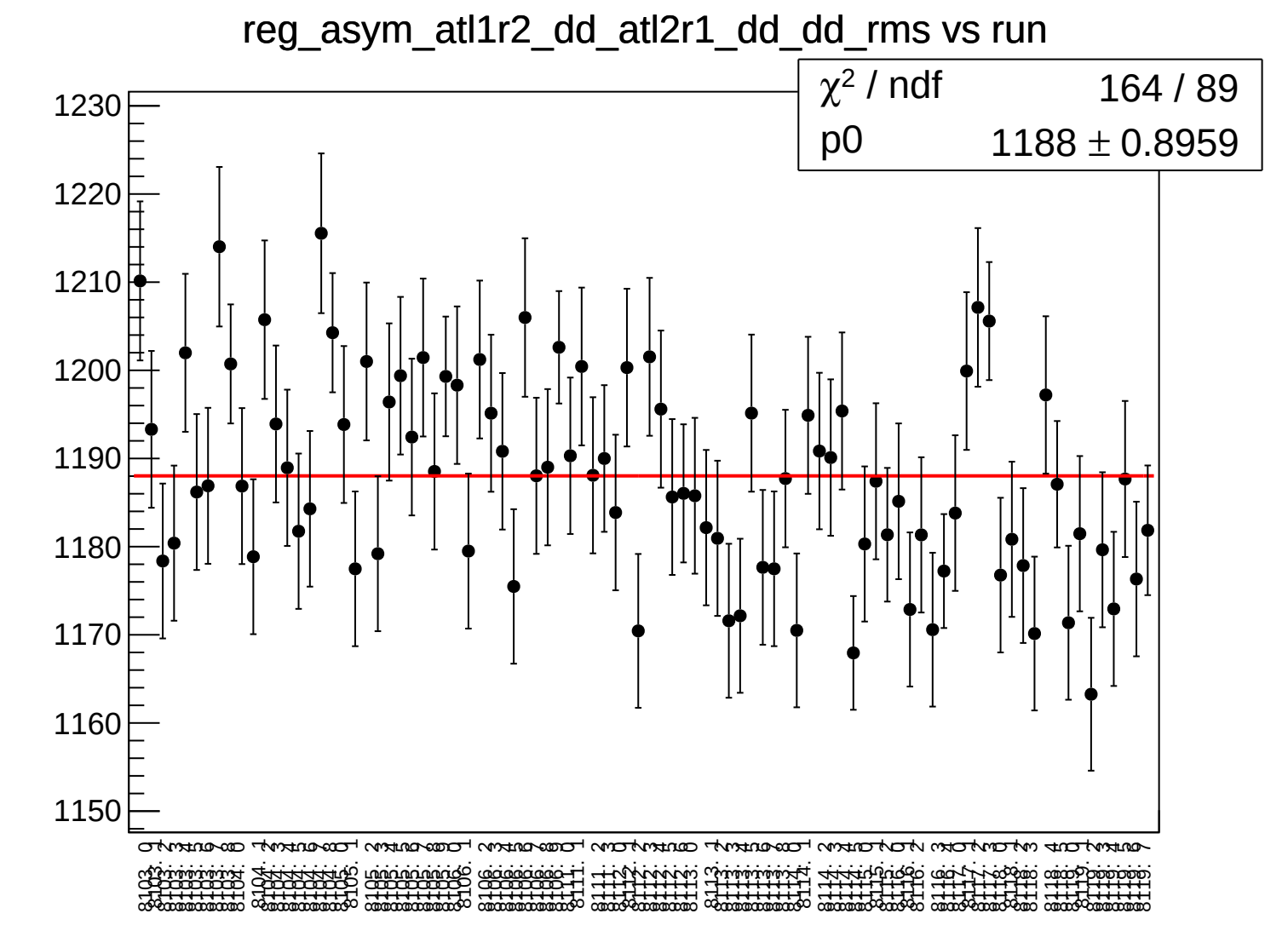

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.54 / 89
p0 6.125e−14 ± 4.385e−13
pull
Entries 90
Mean 54.58
Std Dev 34.51

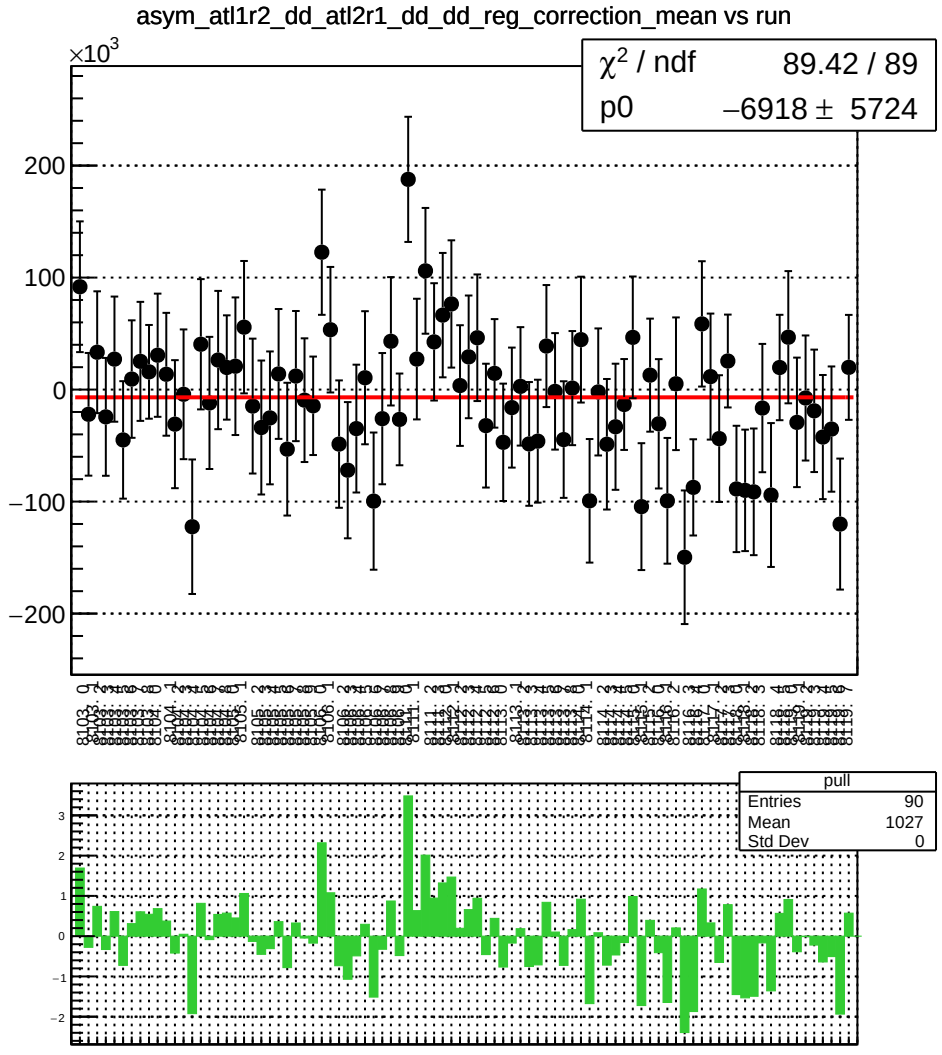

pull1D
Entries 90
Mean 0.06555
Std Dev 0.8892

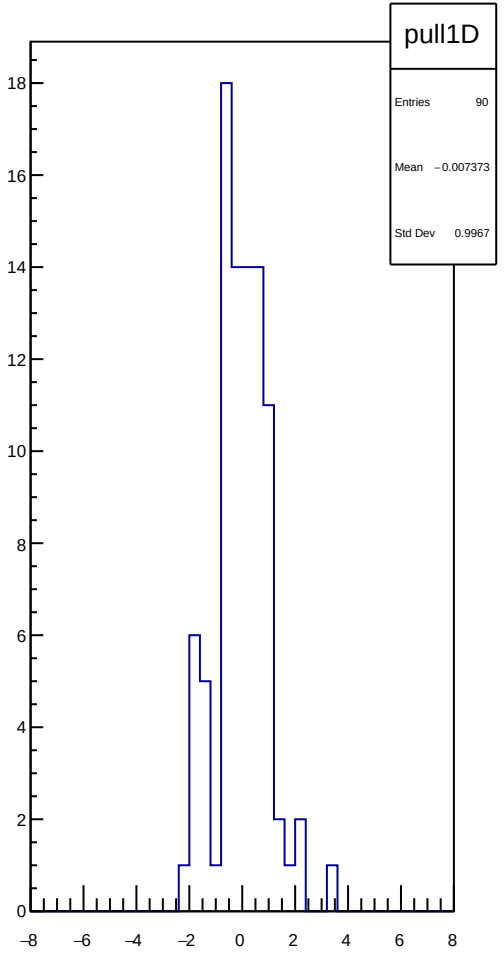

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.458e+05 / 89
p0 3.415e−10 ± 3.101e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

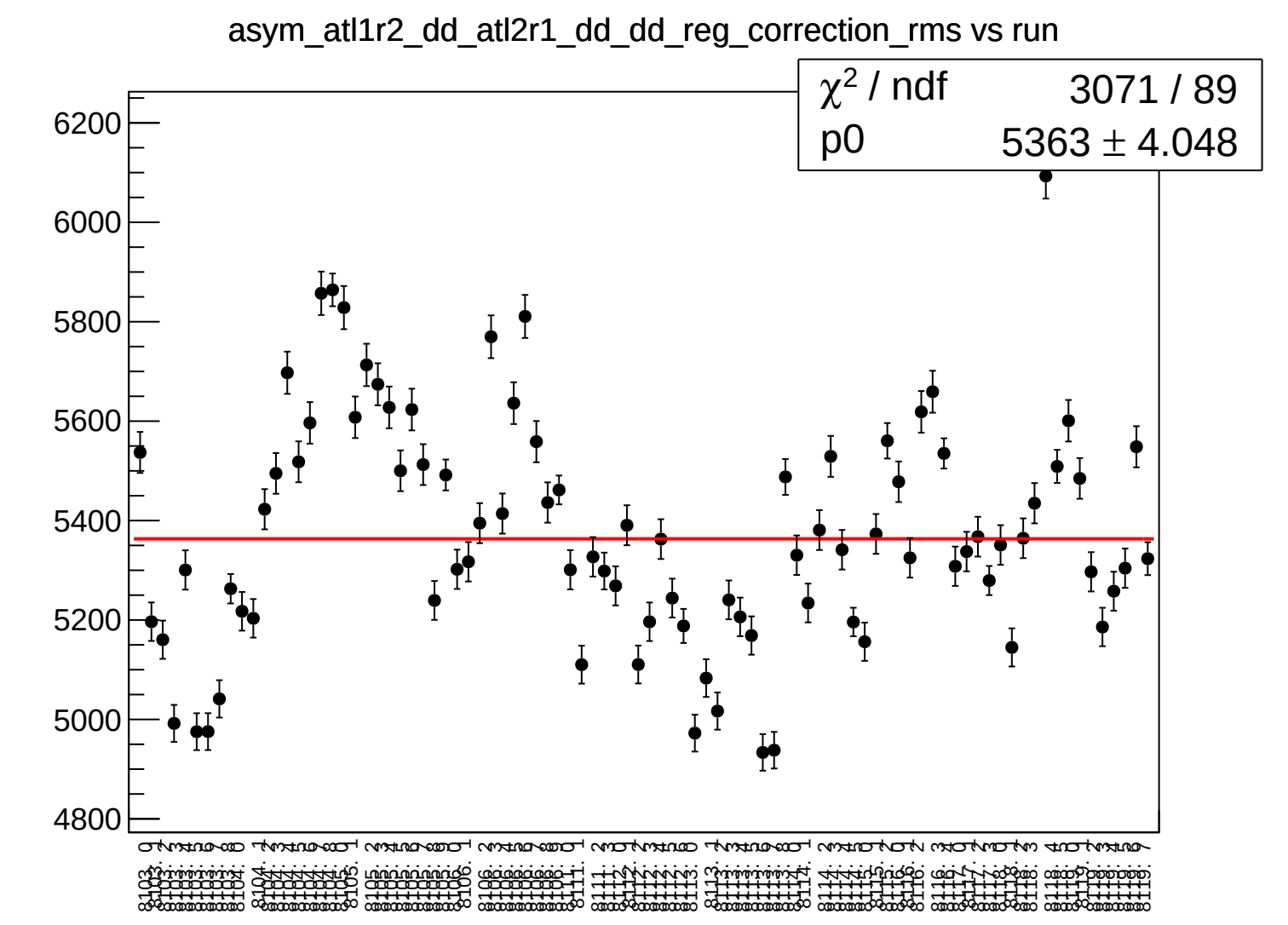

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 88.68 / 89
p0 −487.9 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −217.2
Std Dev 0
3
2
1
0
−1
−2

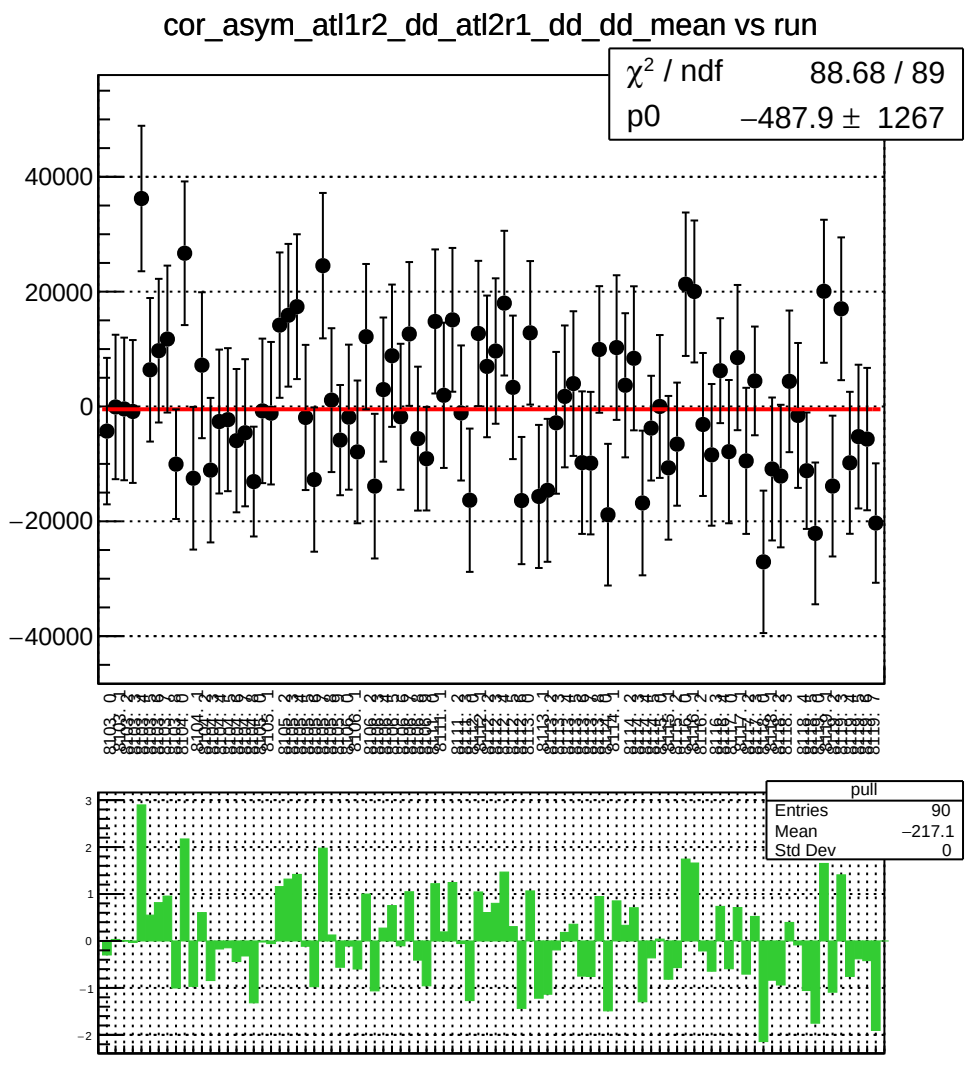

pull1D
Entries 90
Mean 0.02177
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

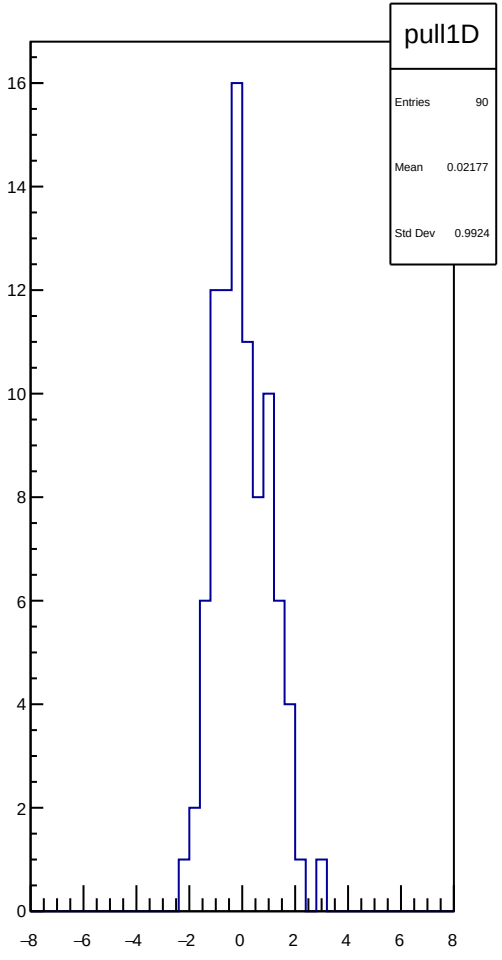

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 164 / 89
p0 1188 ± 0.8959
1230
1220
1210
1200
1190
1180
1170
1160
1150

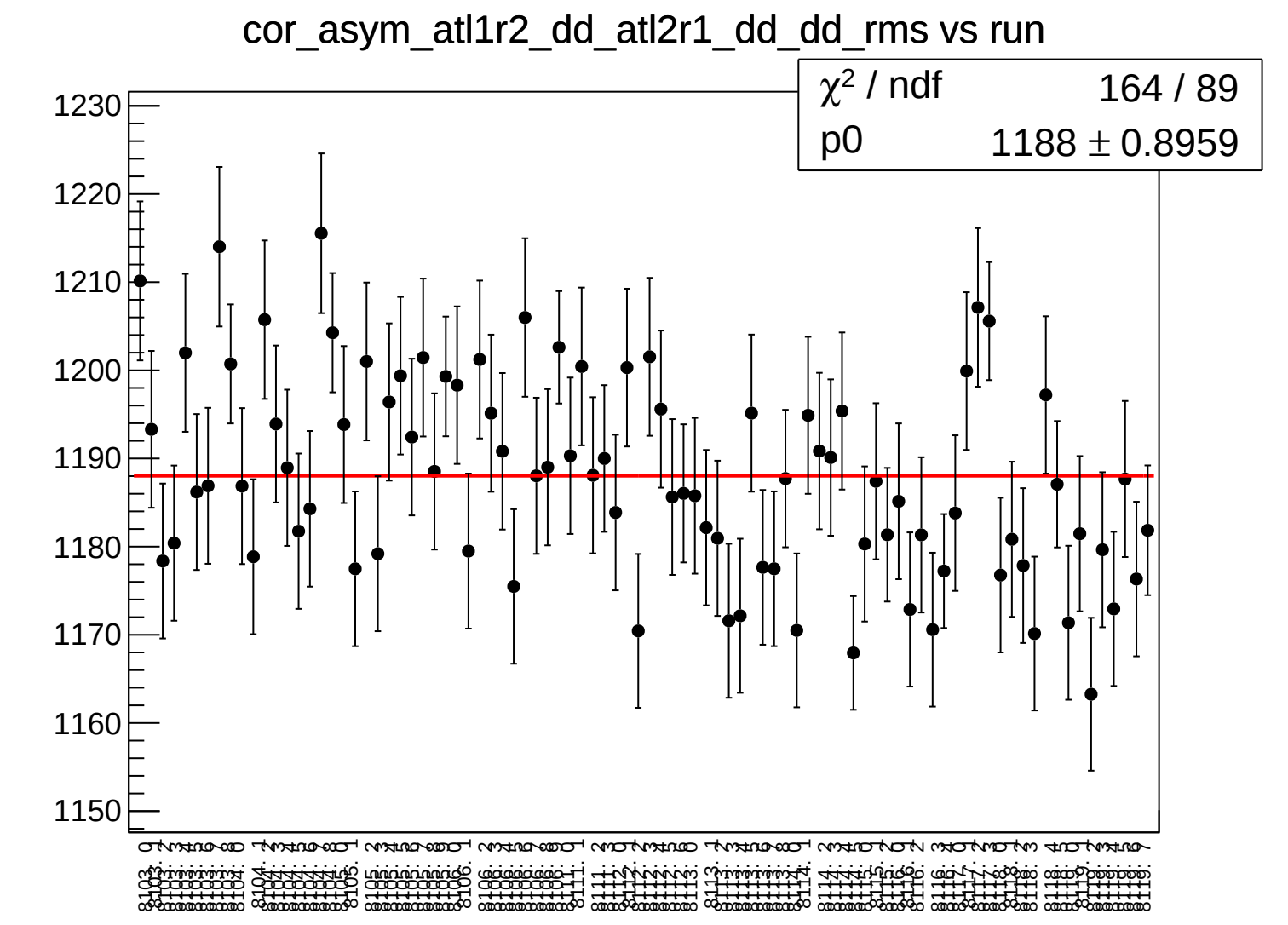

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.42 / 89
p0 −6918 ± 5724
200
100
0
−100
−200
pull
Entries 90
Mean 1027
Std Dev 0
3
2
1
0
−1
−2

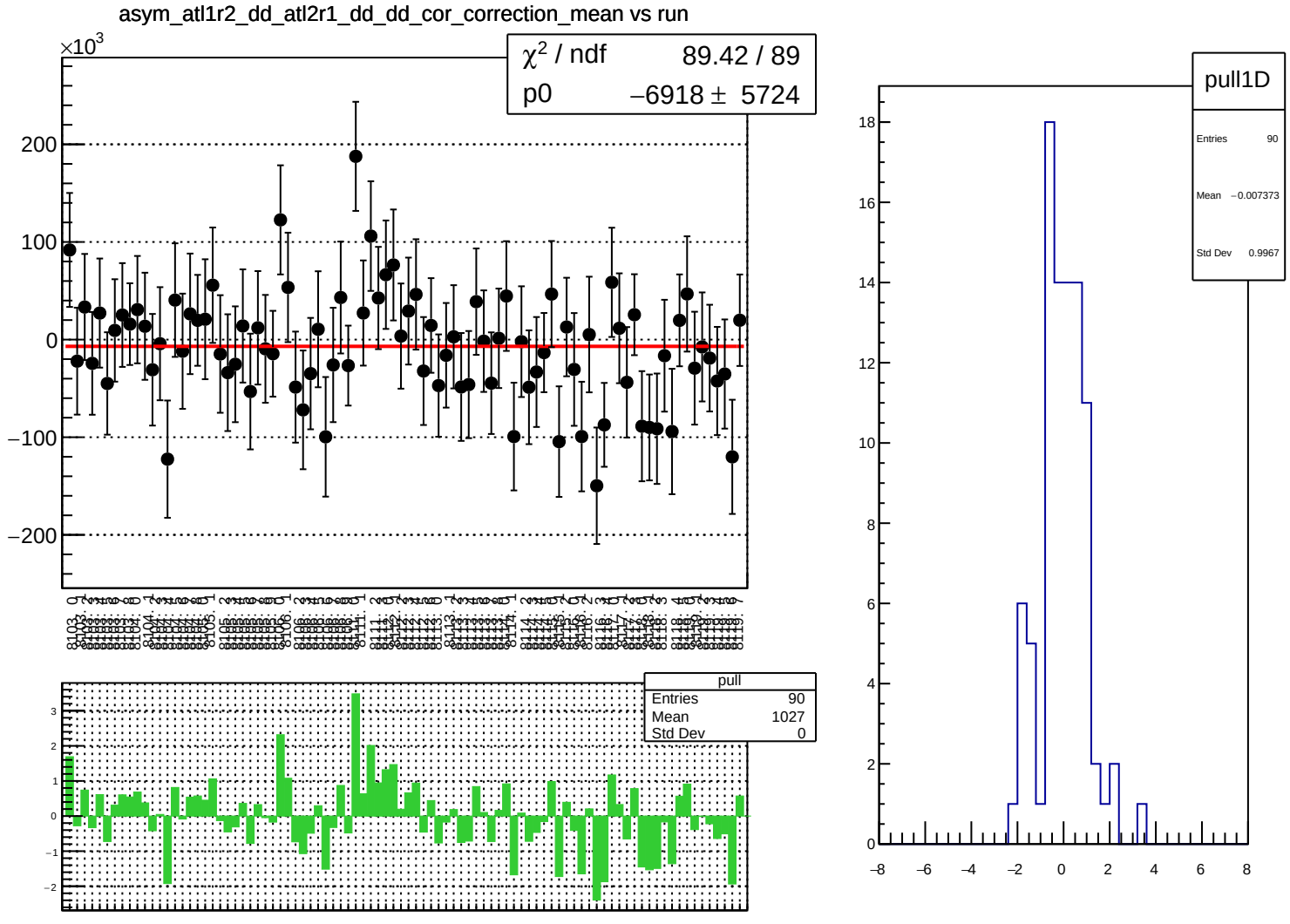

pull1D
Entries 90
Mean −0.007373
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

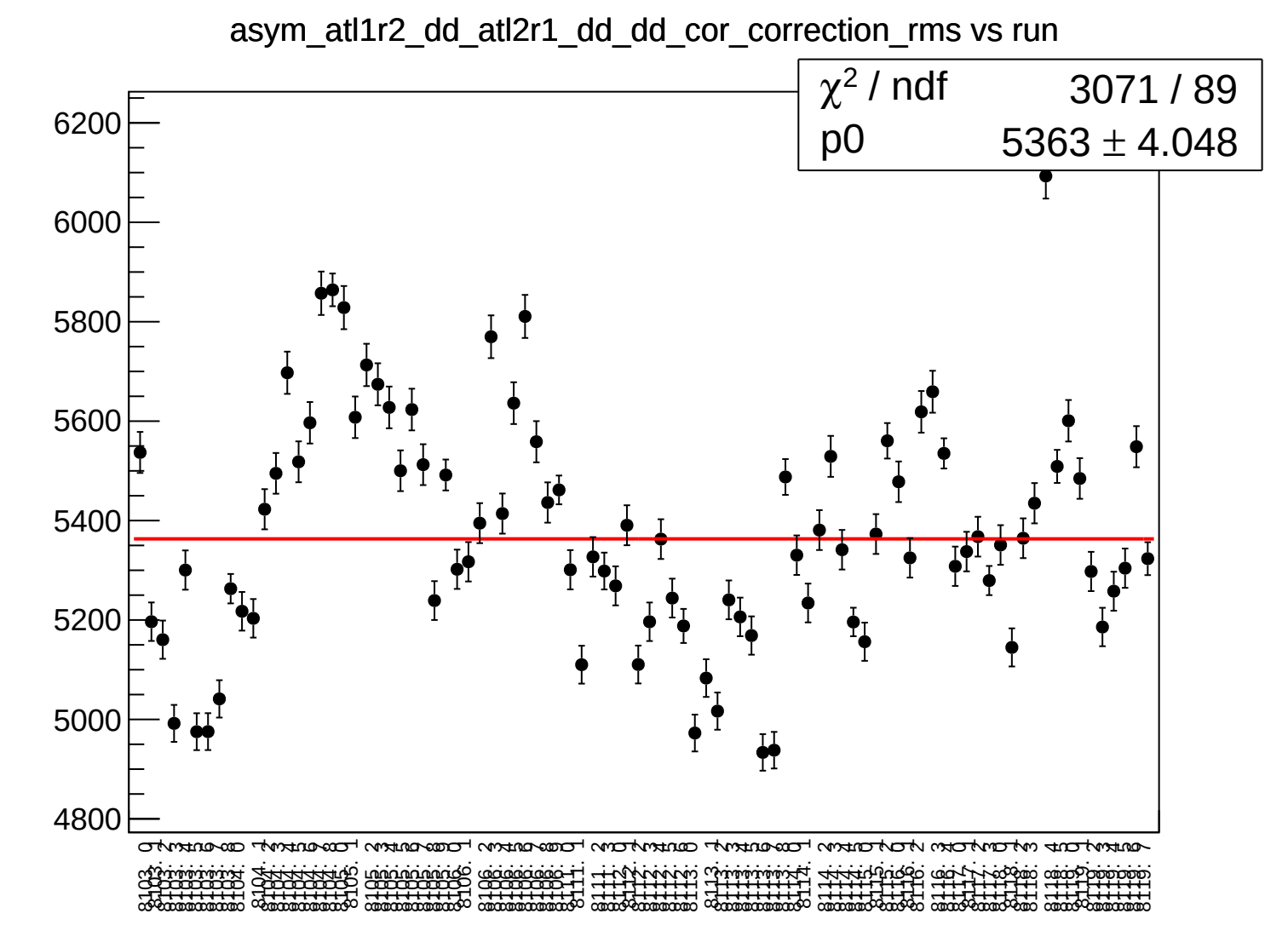

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3071 / 89
p0 5363 ± 4.048
6200
6000
5800
5600
5400
5200
5000
4800

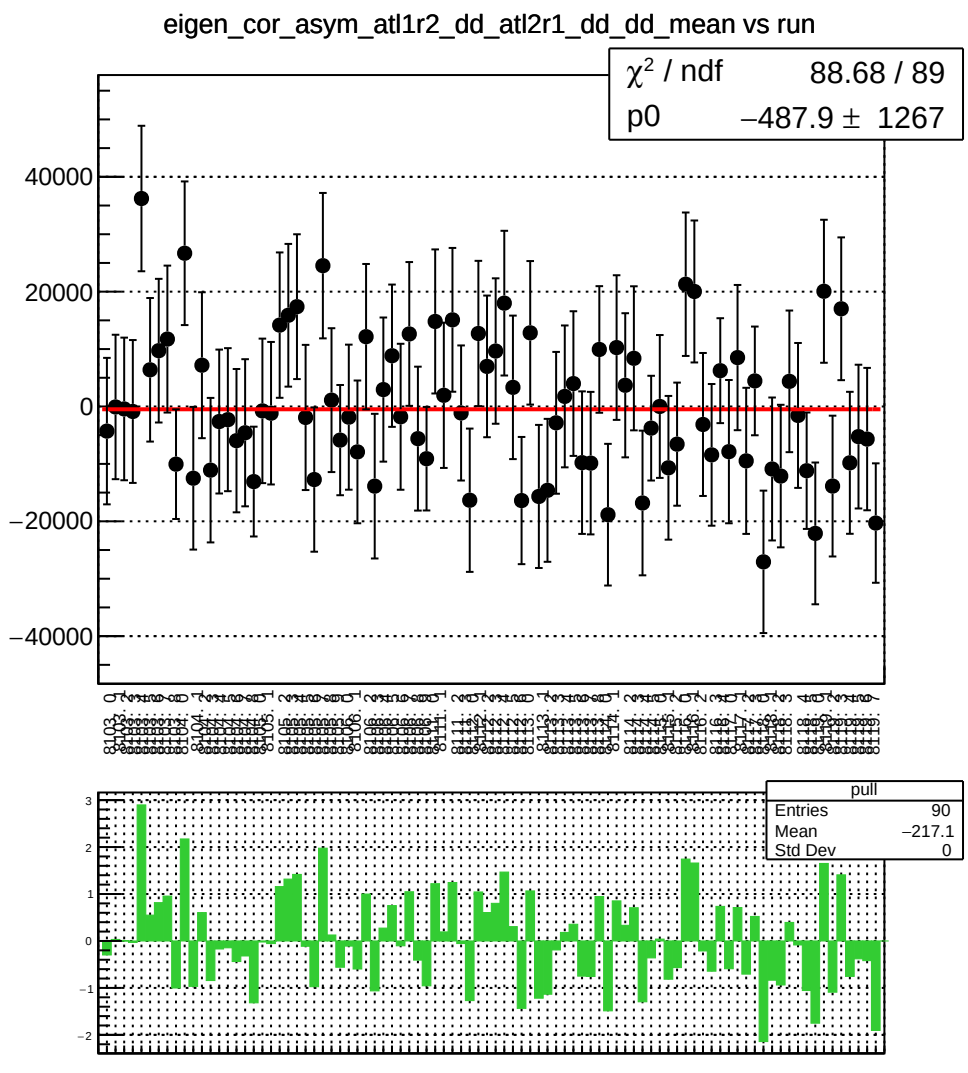

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 88.68 / 89
p0 −487.9 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −217.1
Std Dev 0
3
2
1
0
−1
−2

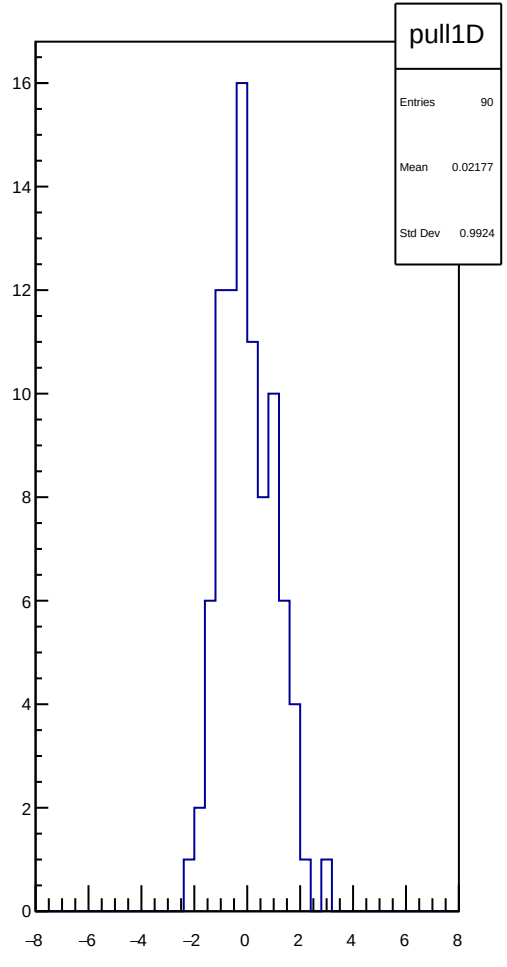

pull1D
Entries 90
Mean 0.02177
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

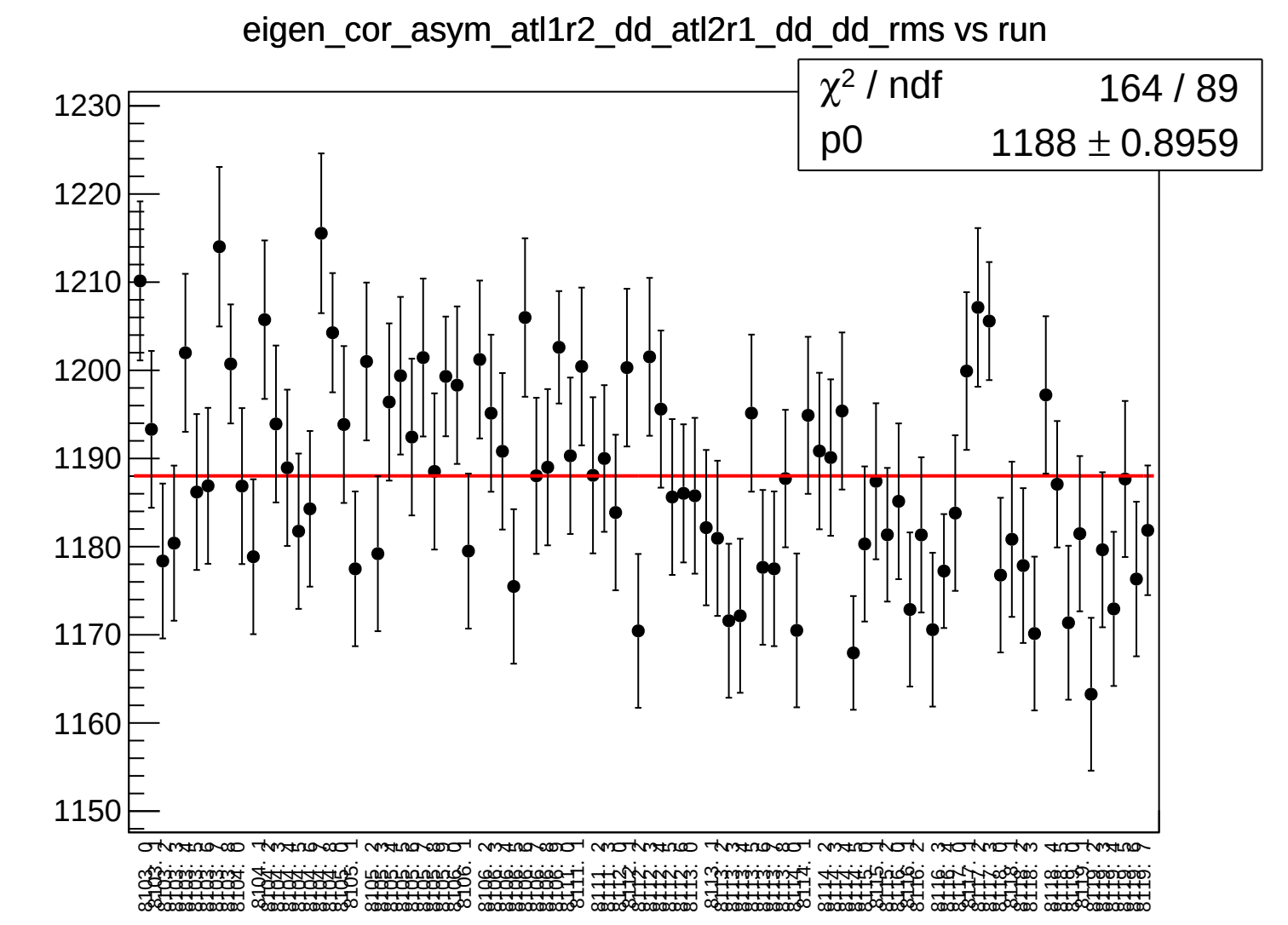

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 164 / 89
p0 1188 ± 0.8959
1230
1220
1210
1200
1190
1180
1170
1160
1150

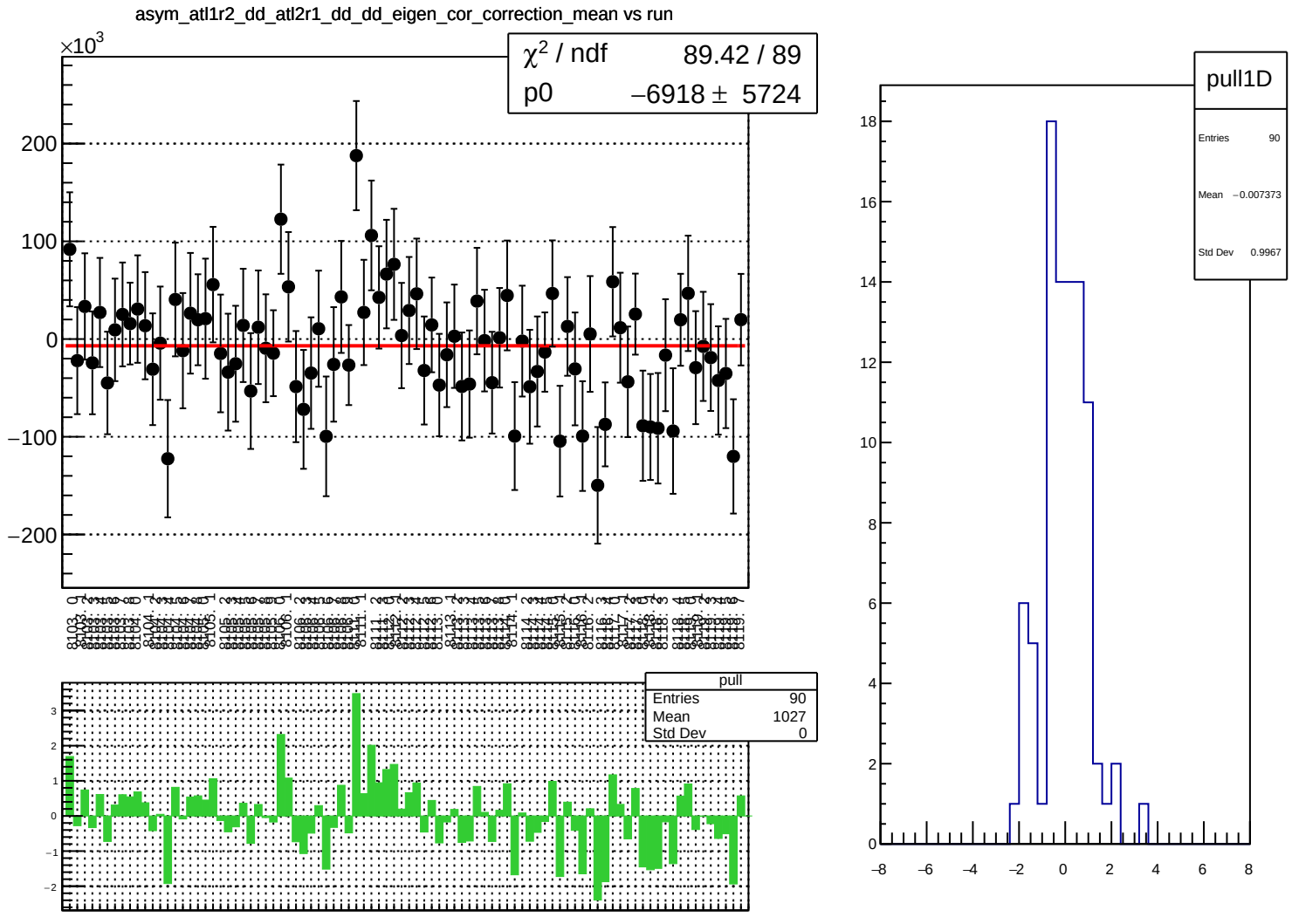

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.42 / 89
p0 −6918 ± 5724
200
100
0
−100
−200
pull
Entries 90
Mean 1027
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007373
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

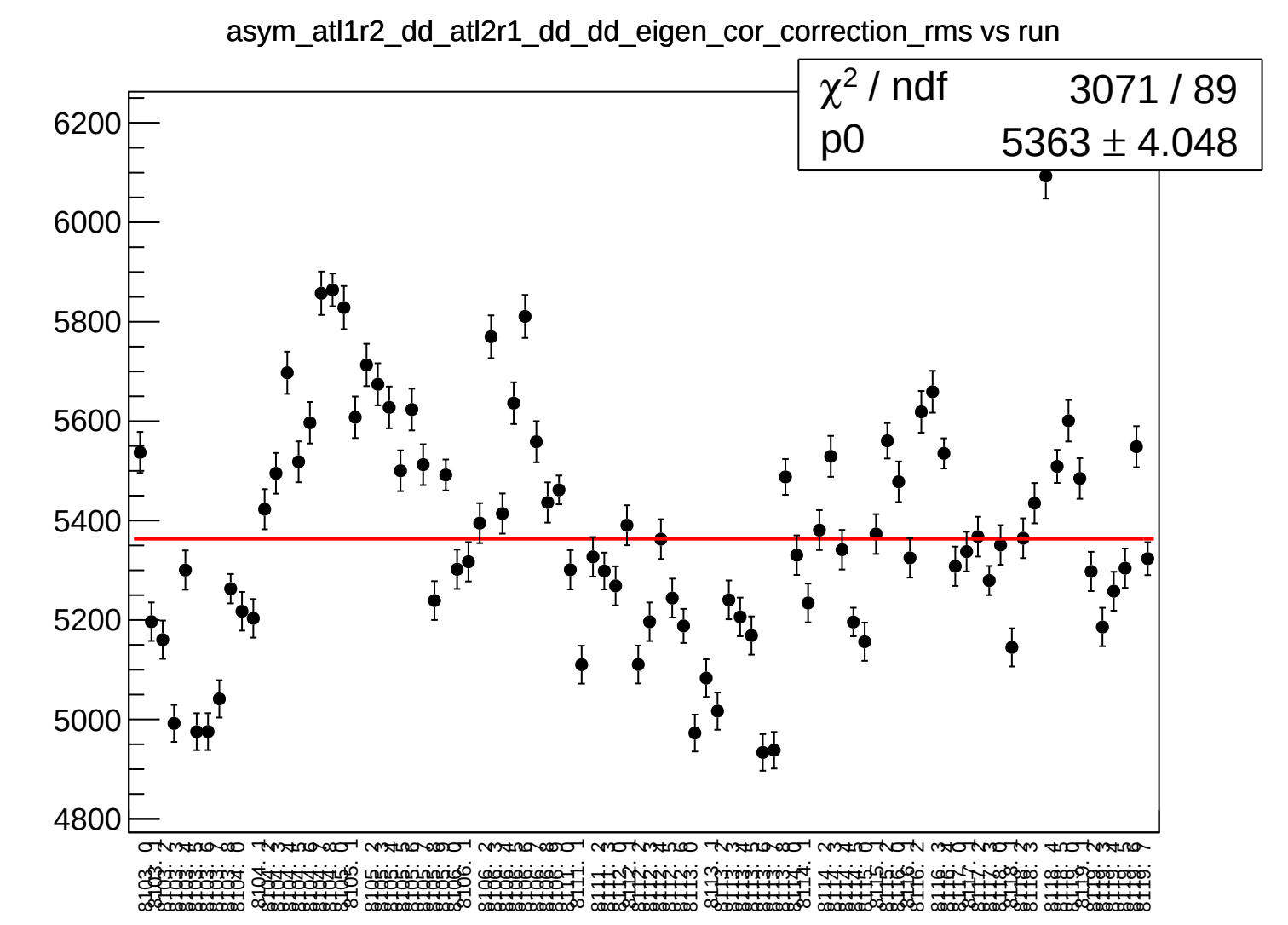

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3071 / 89
p0 5363 ± 4.048
6200
6000
5800
5600
5400
5200
5000
4800

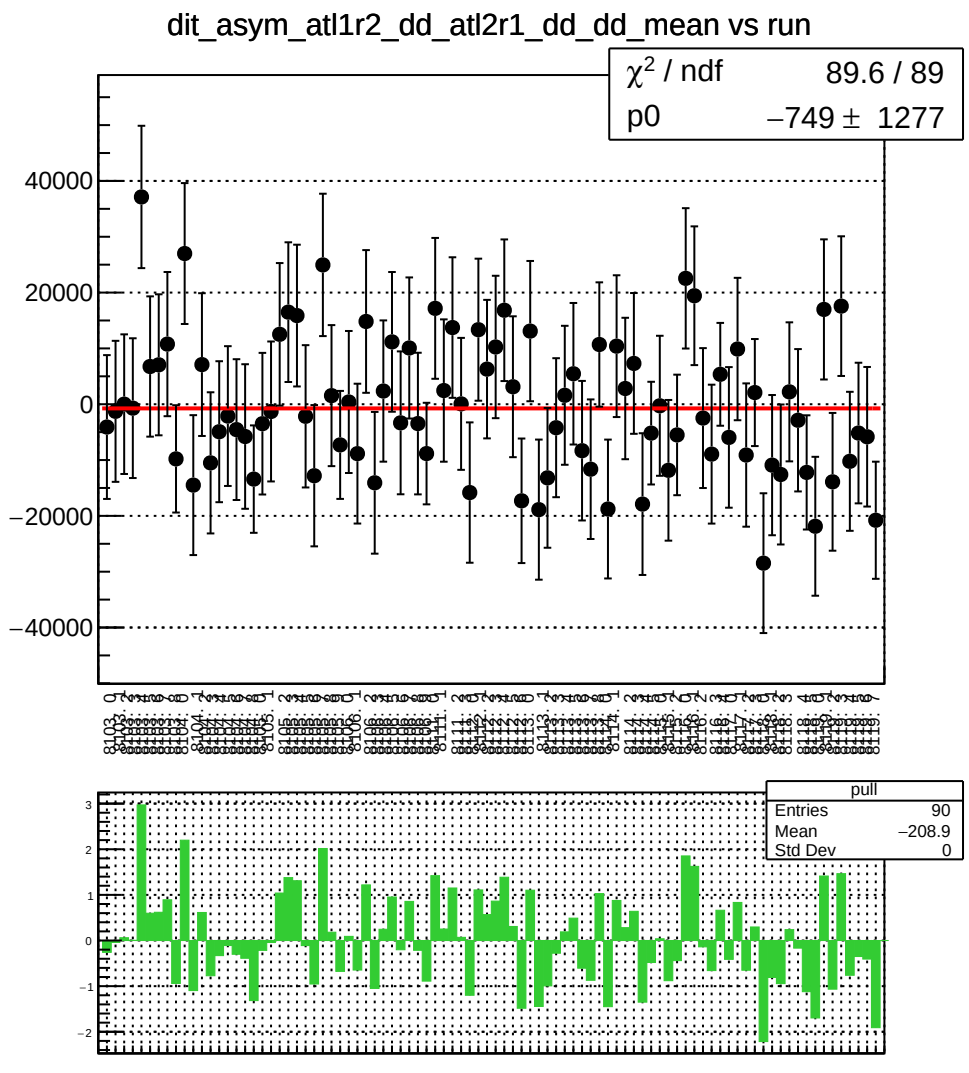

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 88.68 / 89
p0 −487.9 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −217.1
Std Dev 0
3
2
1
0
−1
−2

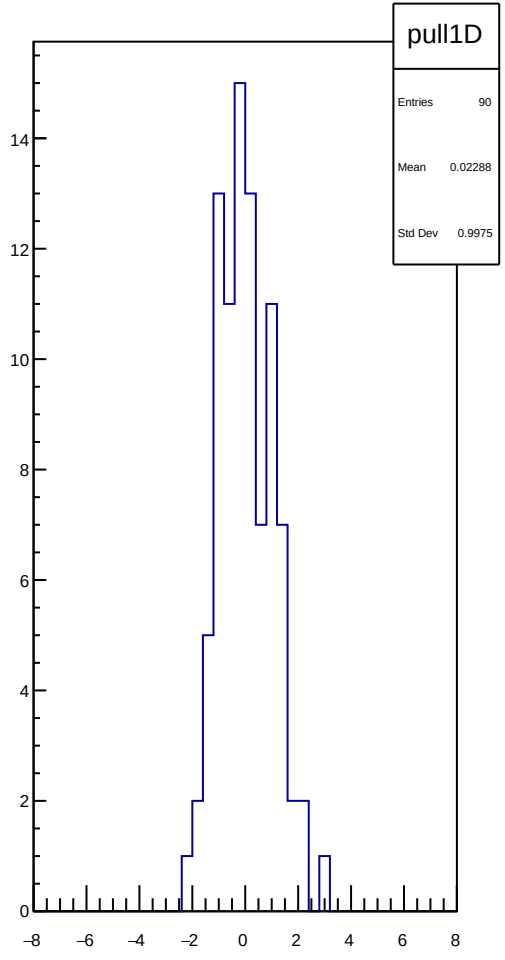

pull1D
Entries 90
Mean 0.02177
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

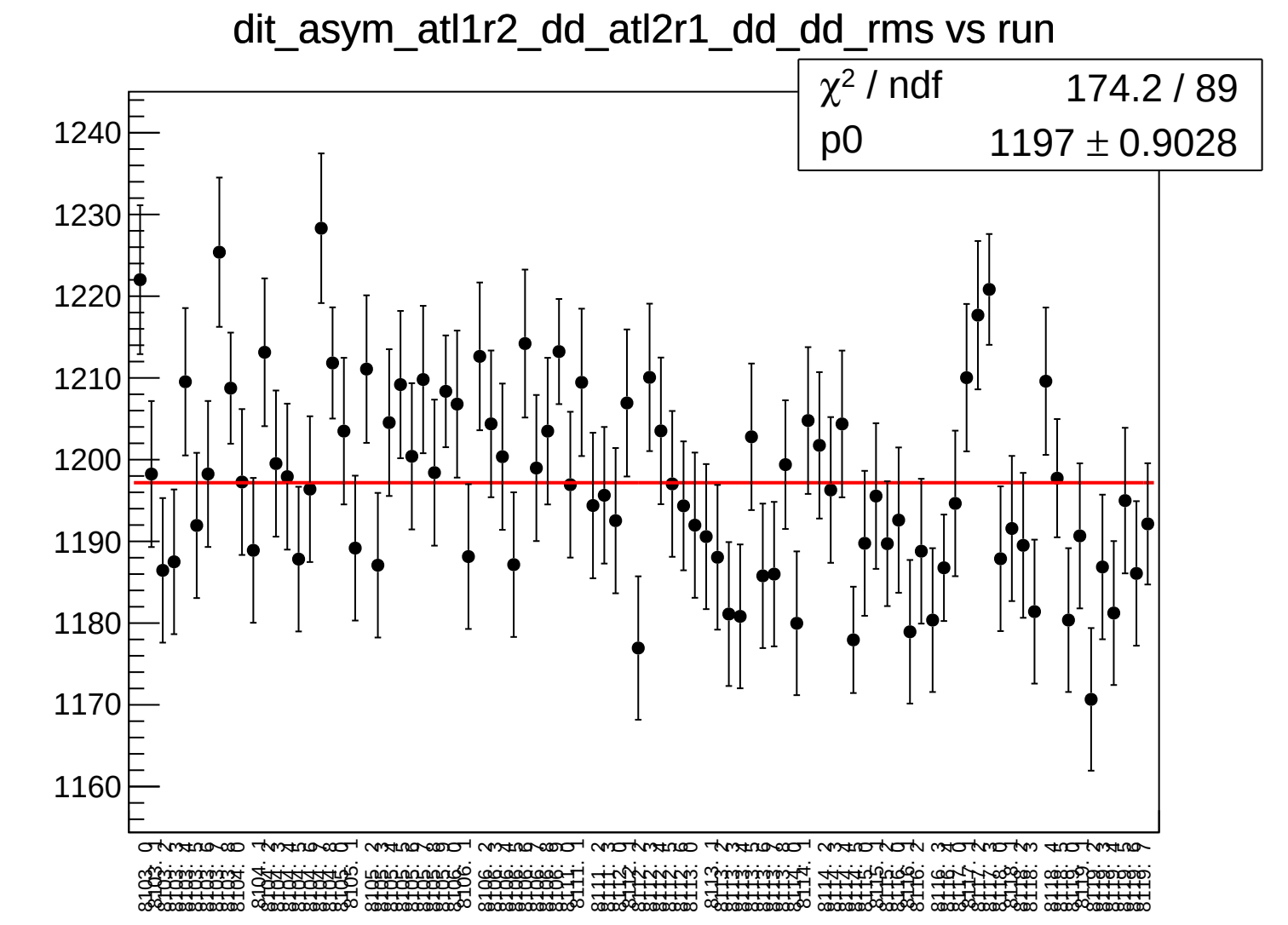

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 164 / 89
p0 1188 ± 0.8959
1230
1220
1210
1200
1190
1180
1170
1160
1150

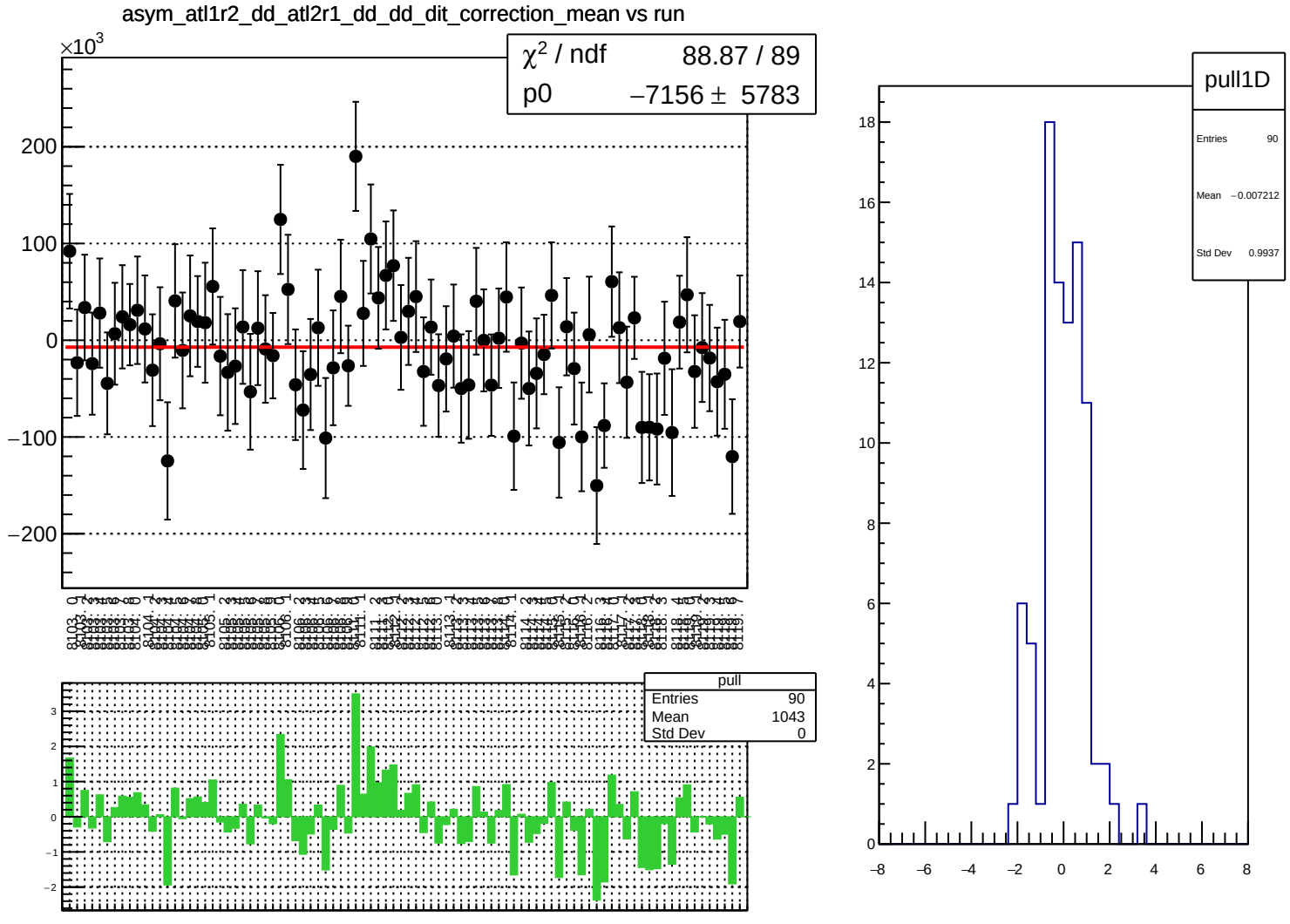

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.42 / 89
p0 −6918 ± 5724
200
100
0
−100
−200
pull
Entries 90
Mean 1027
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007373
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

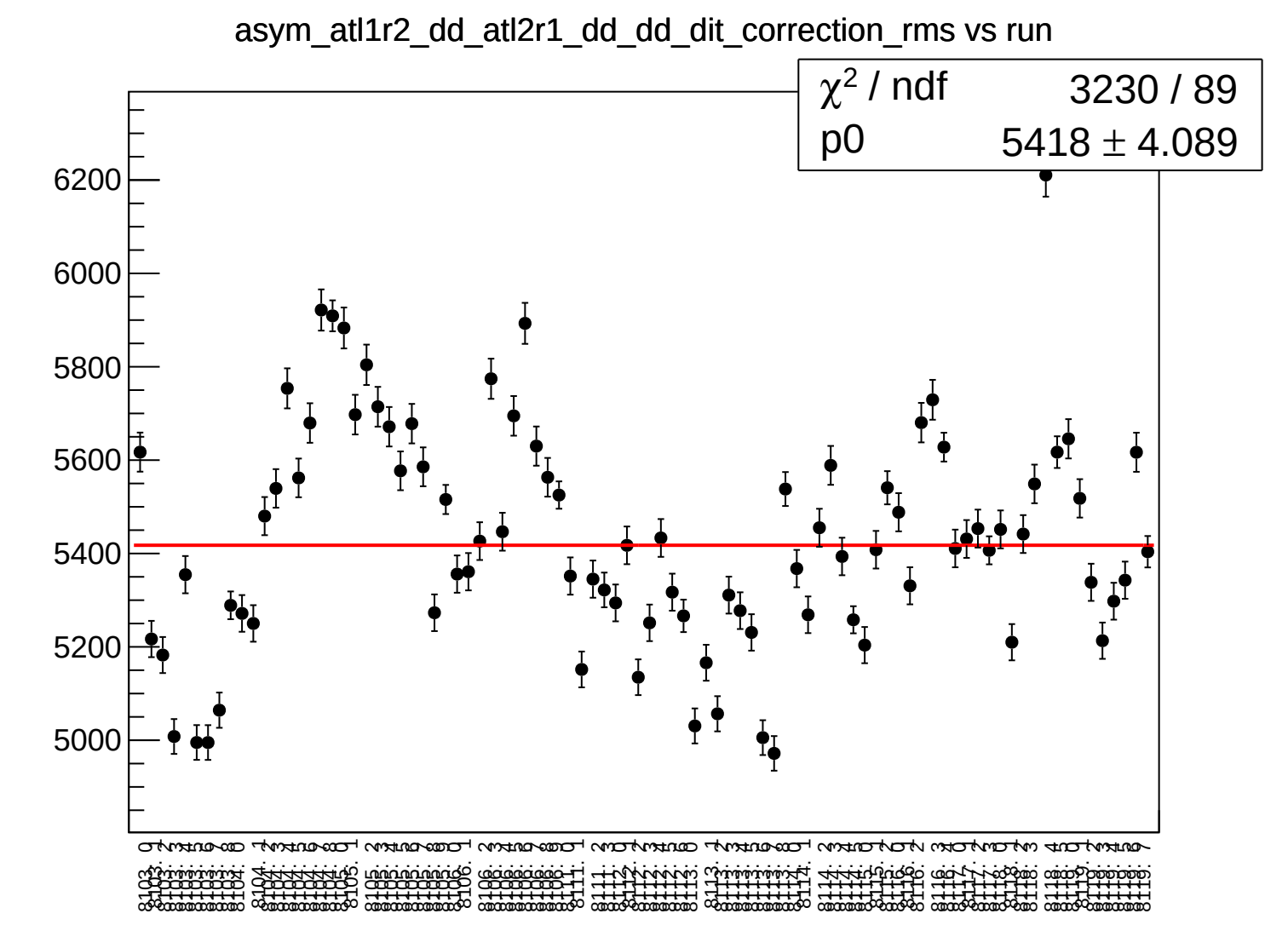

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3071 / 89
p0 5363 ± 4.048
6200
6000
5800
5600
5400
5200
5000
4800

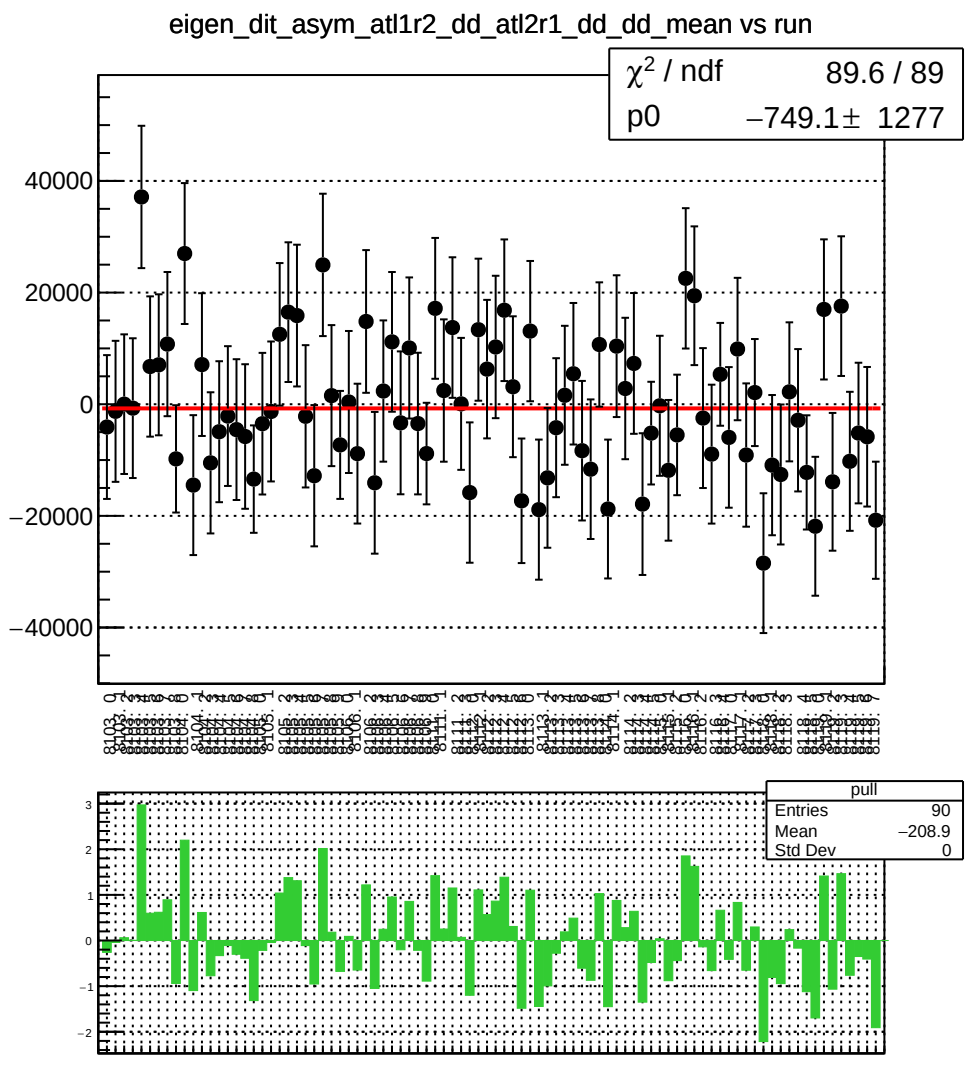

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.6 / 89
p0 −749 ± 1277
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −208.9
Std Dev 0
3
2
1
0
−1
−2

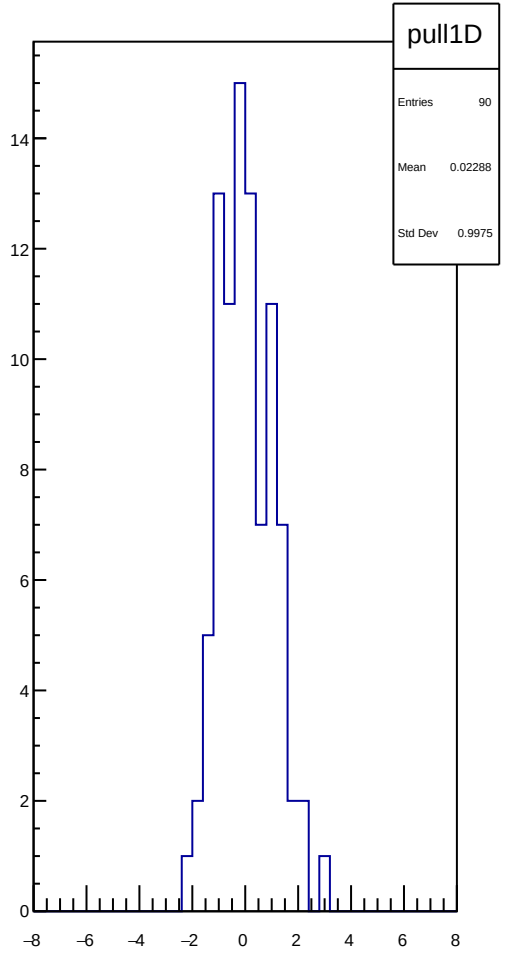

pull1D
Entries 90
Mean 0.02288
Std Dev 0.9975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

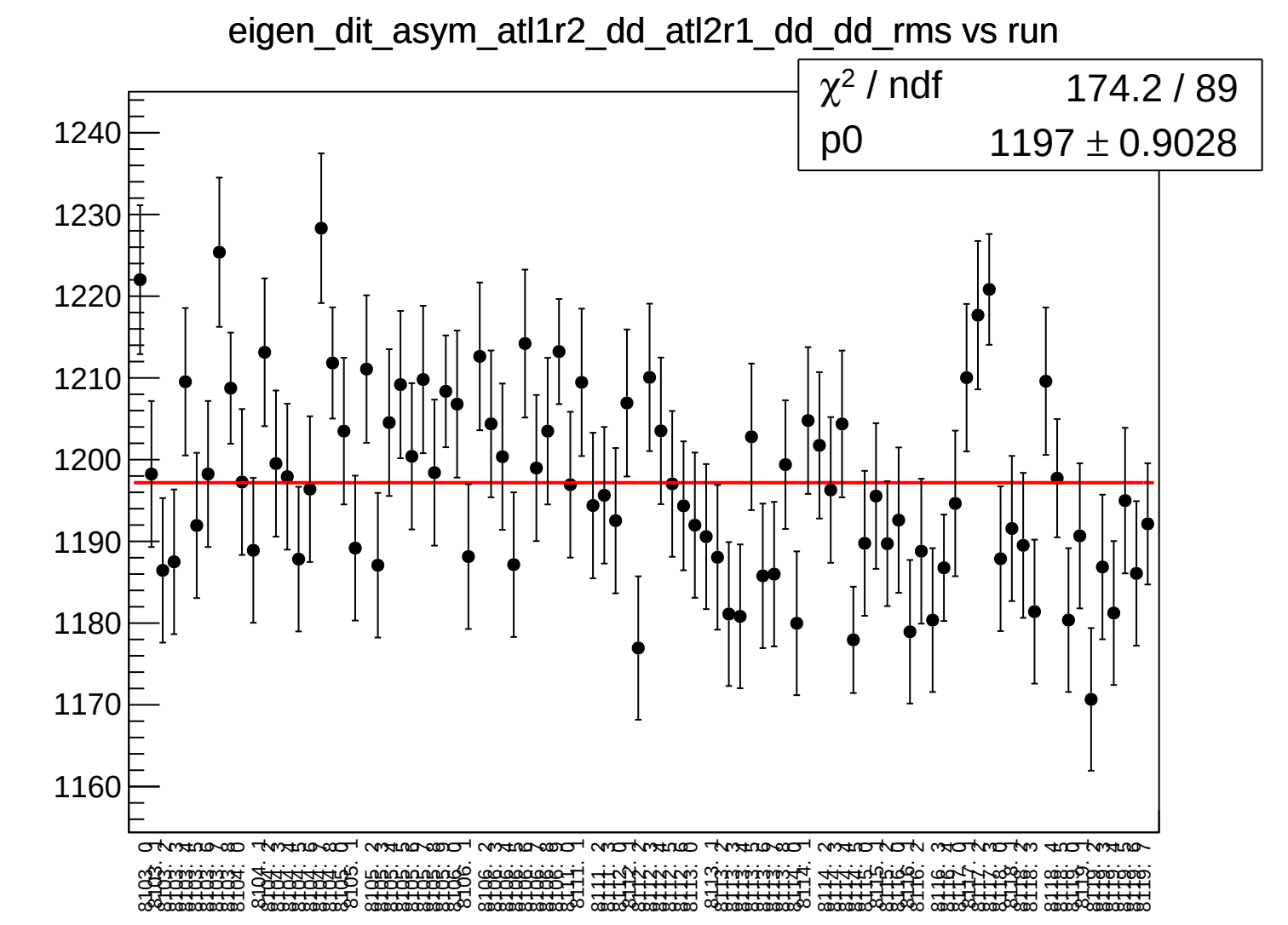

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 174.2 / 89
p0 1197 ± 0.9028
1240
1230
1220
1210
1200
1190
1180
1170
1160

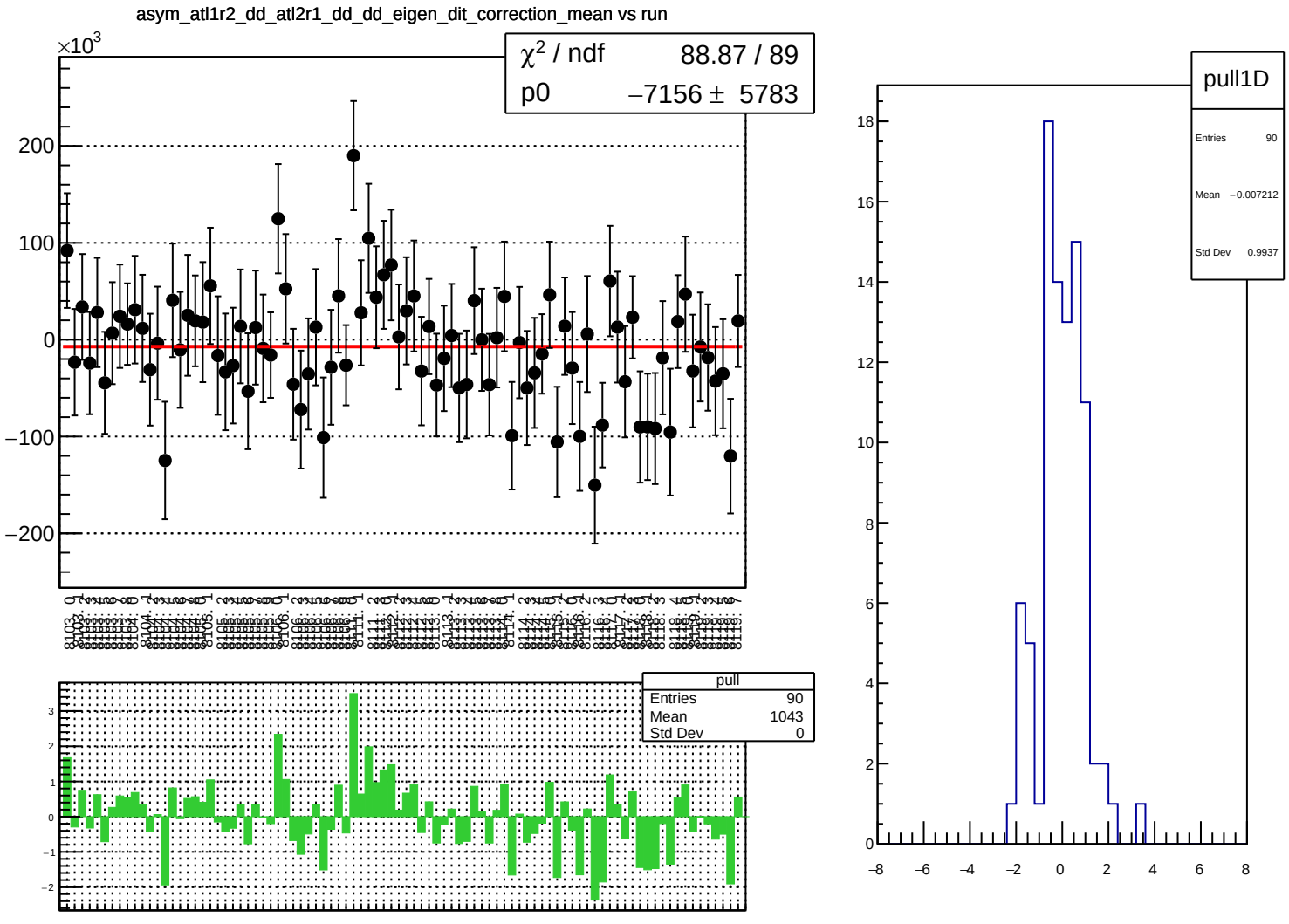

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.87 / 89
p0 −7156 ± 5783
200
100
0
−100
−200
pull
Entries 90
Mean 1043
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007212
Std Dev 0.9937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

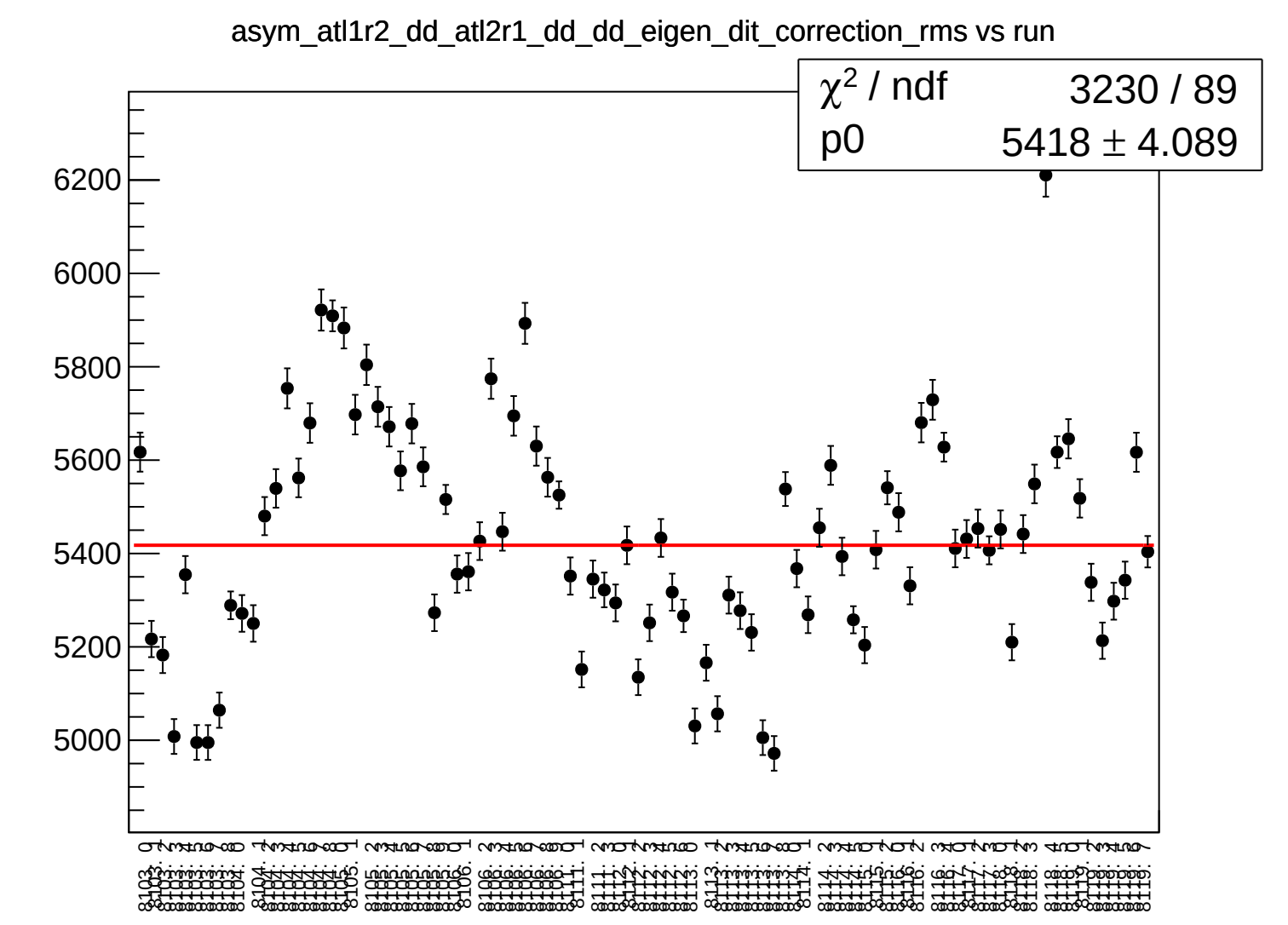

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3230 / 89
p0 5418 ± 4.089
6200
6000
5800
5600
5400
5200
5000

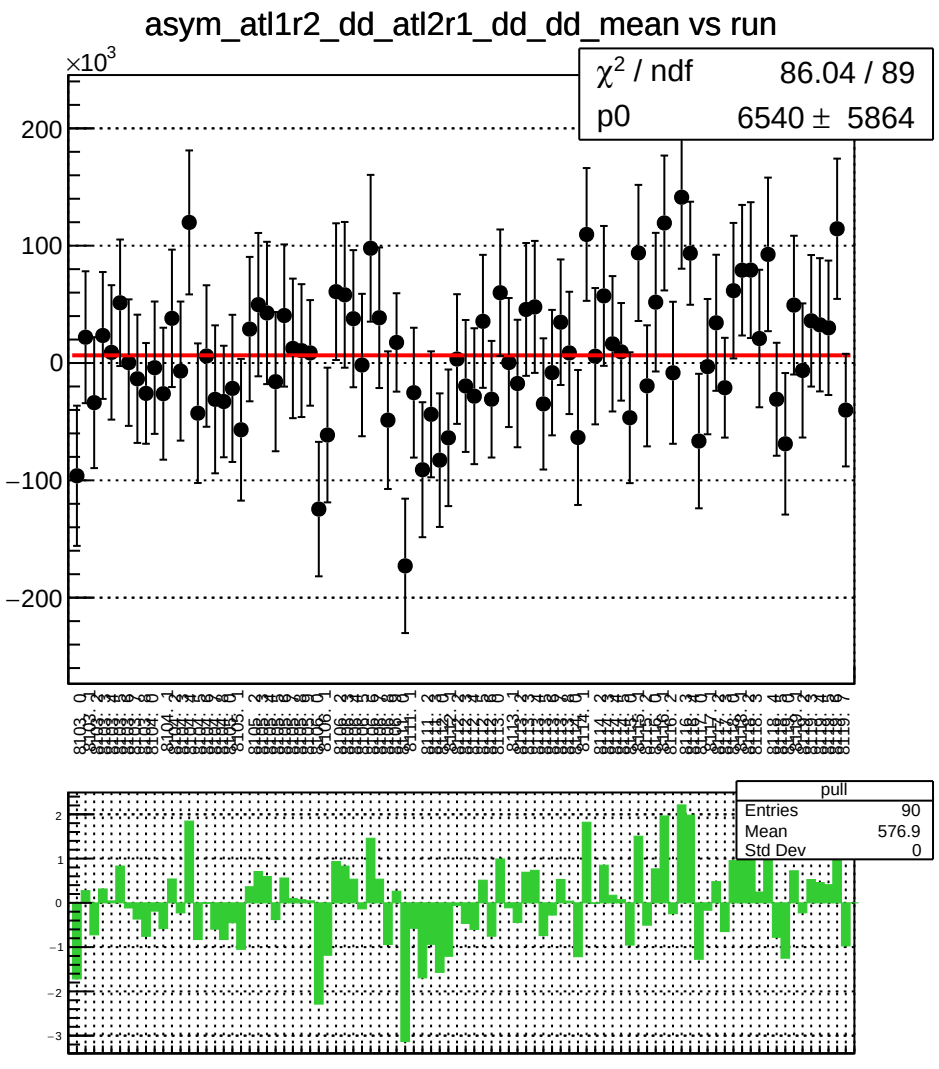

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.6 / 89
p0 −749.1± 1277
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −208.9
Std Dev 0
3
2
1
0
−1
−2

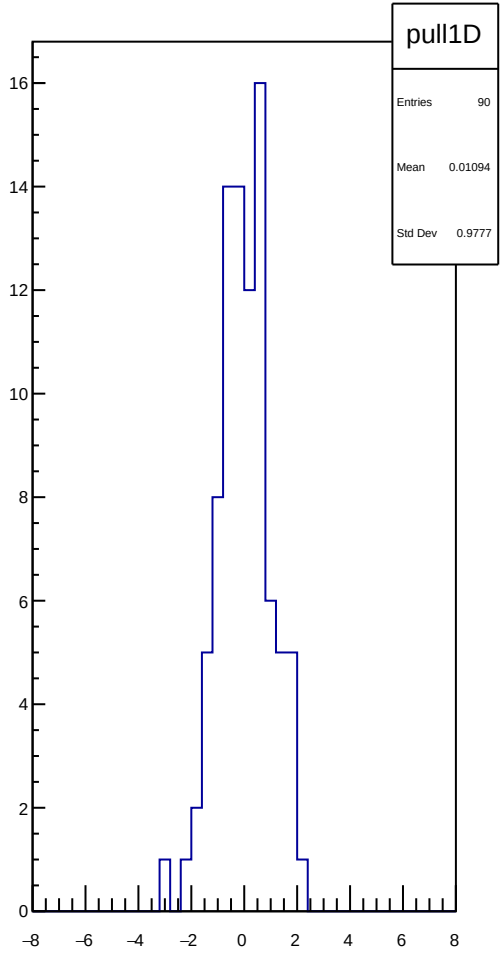

pull1D
Entries 90
Mean 0.02288
Std Dev 0.9975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

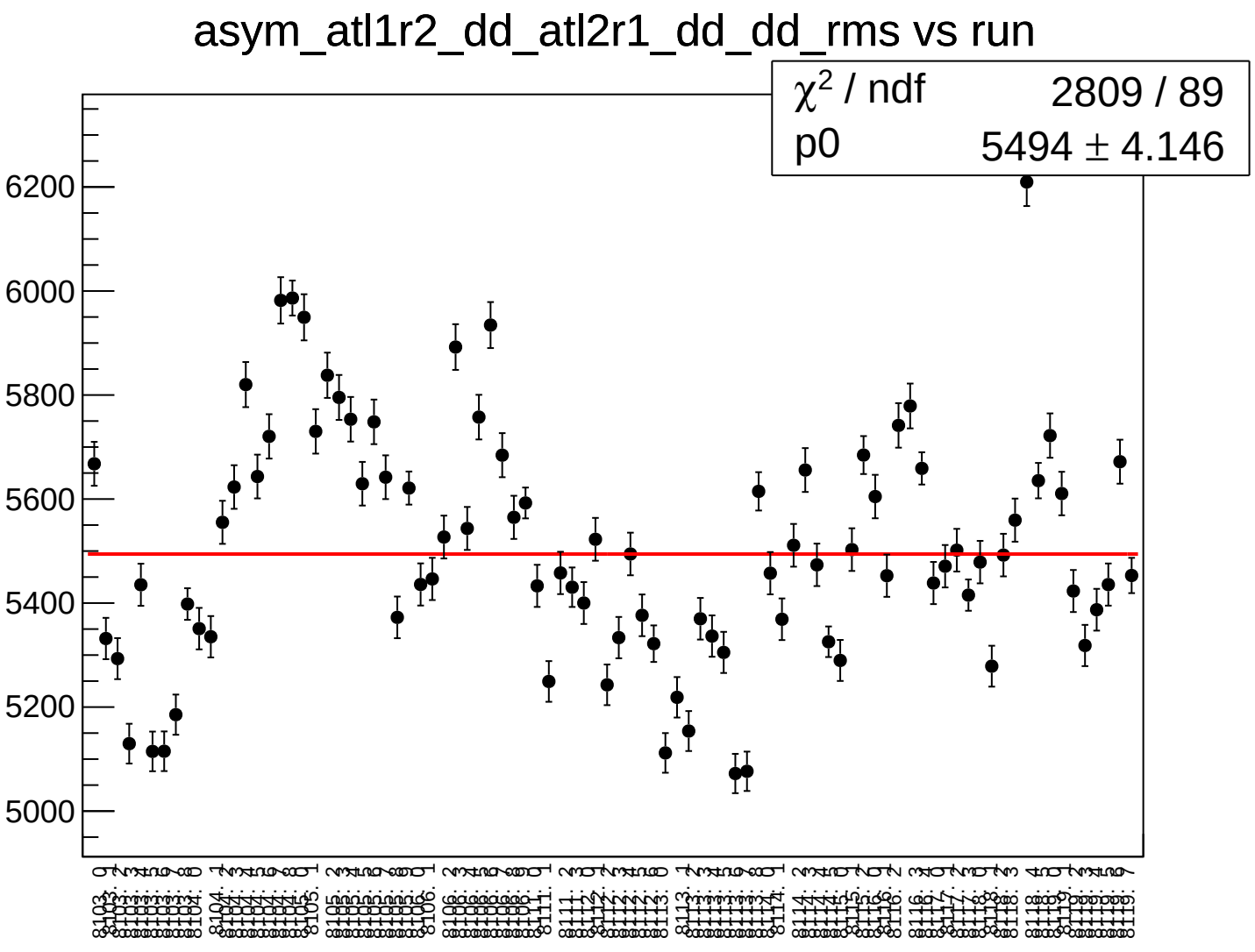

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 174.2 / 89
p0 1197 ± 0.9028
1240
1230
1220
1210
1200
1190
1180
1170
1160

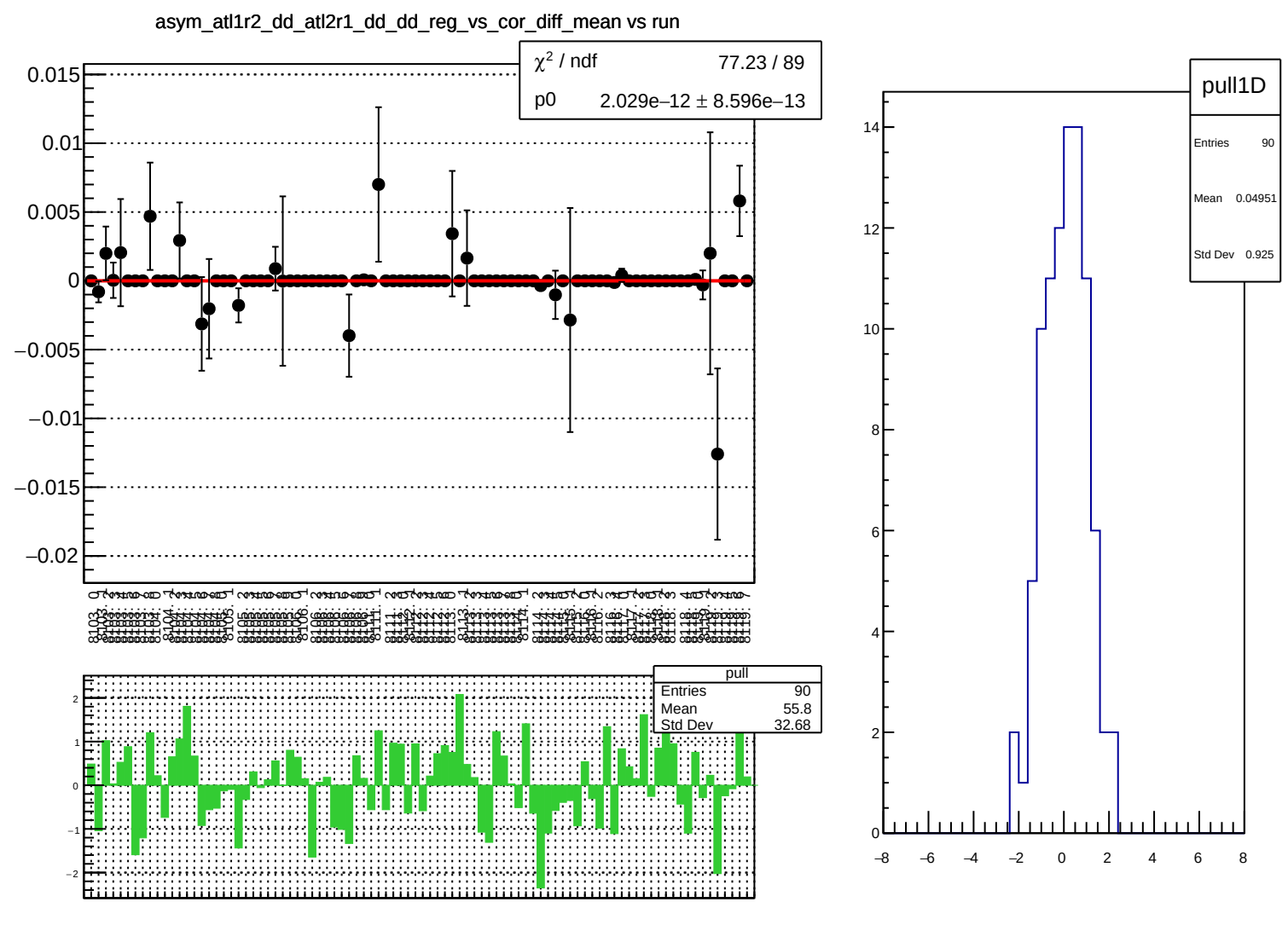

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.87 / 89
p0 −7156 ± 5783
200
100
0
−100
−200
pull
Entries 90
Mean 1043
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007212
Std Dev 0.9937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

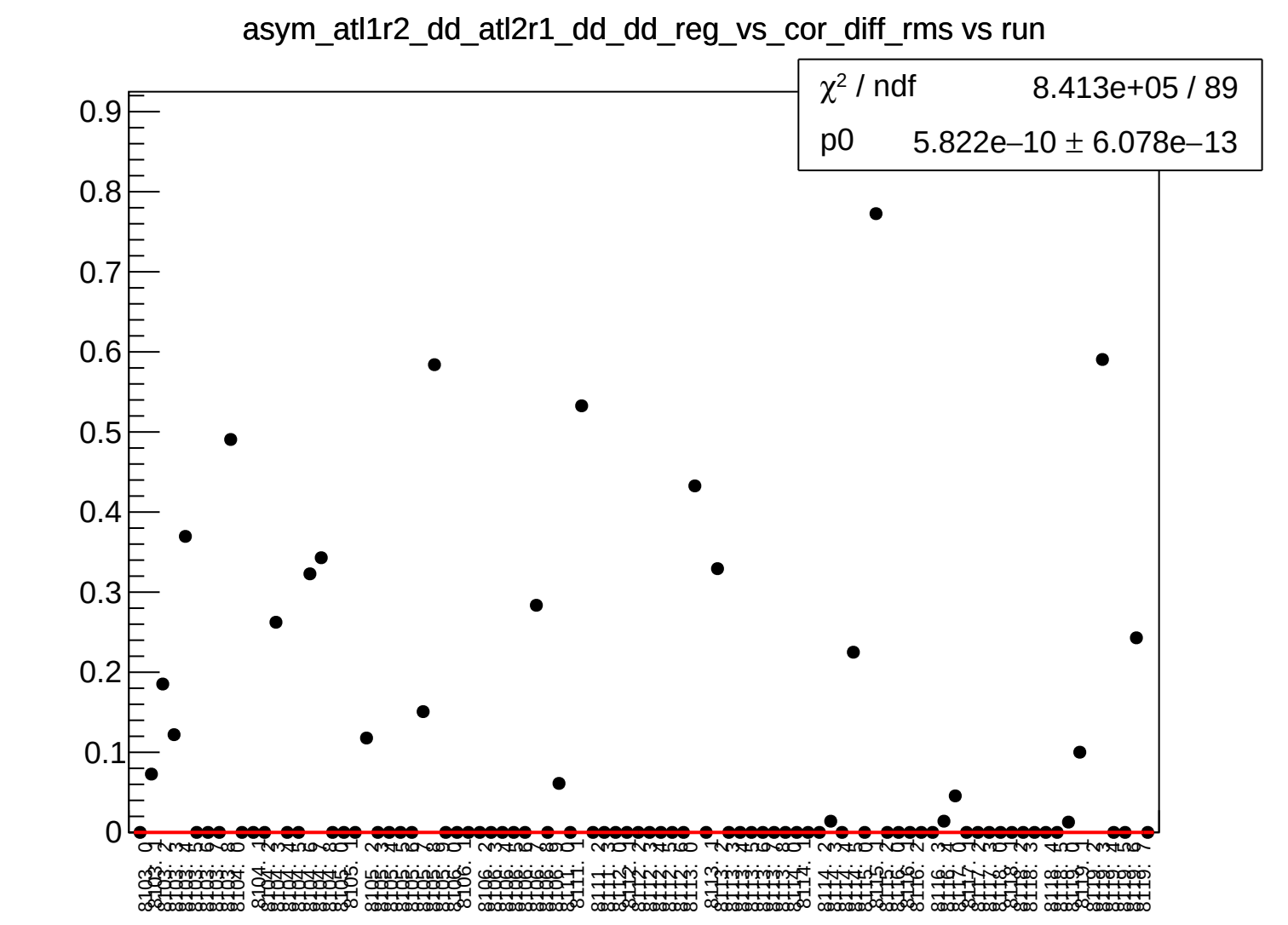

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3230 / 89
p0 5418 ± 4.089
6200
6000
5800
5600
5400
5200
5000


asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 86.04 / 89
p0 6540 ± 5864
200
100
0
−100
−200
pull
Entries 90
Mean 576.9
Std Dev 0
2
1
0
−1
−2
−3

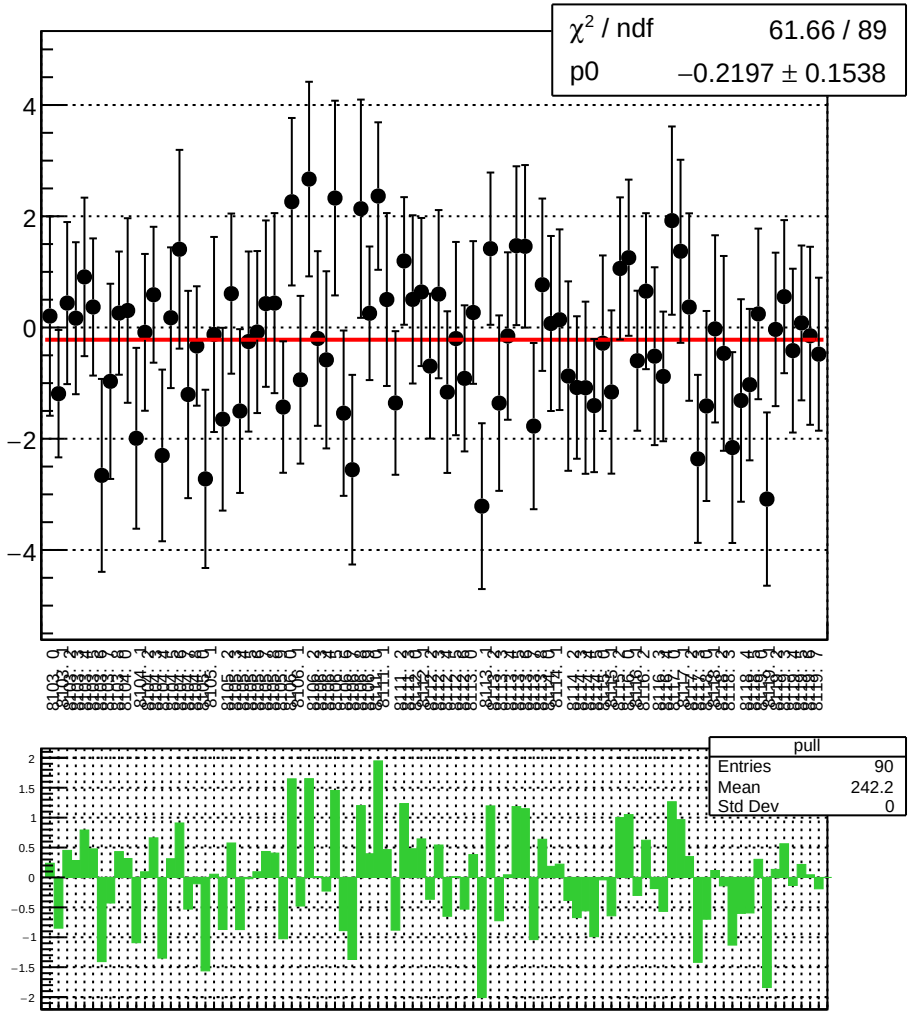

pull1D
Entries 90
Mean 0.01094
Std Dev 0.9777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

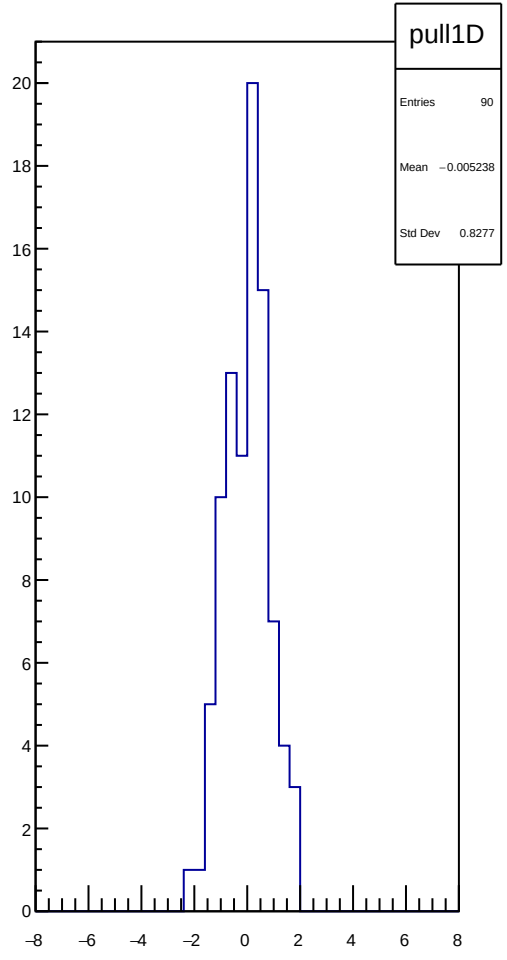

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2809 / 89
p0 5494 ± 4.146
6200
6000
5800
5600
5400
5200
5000

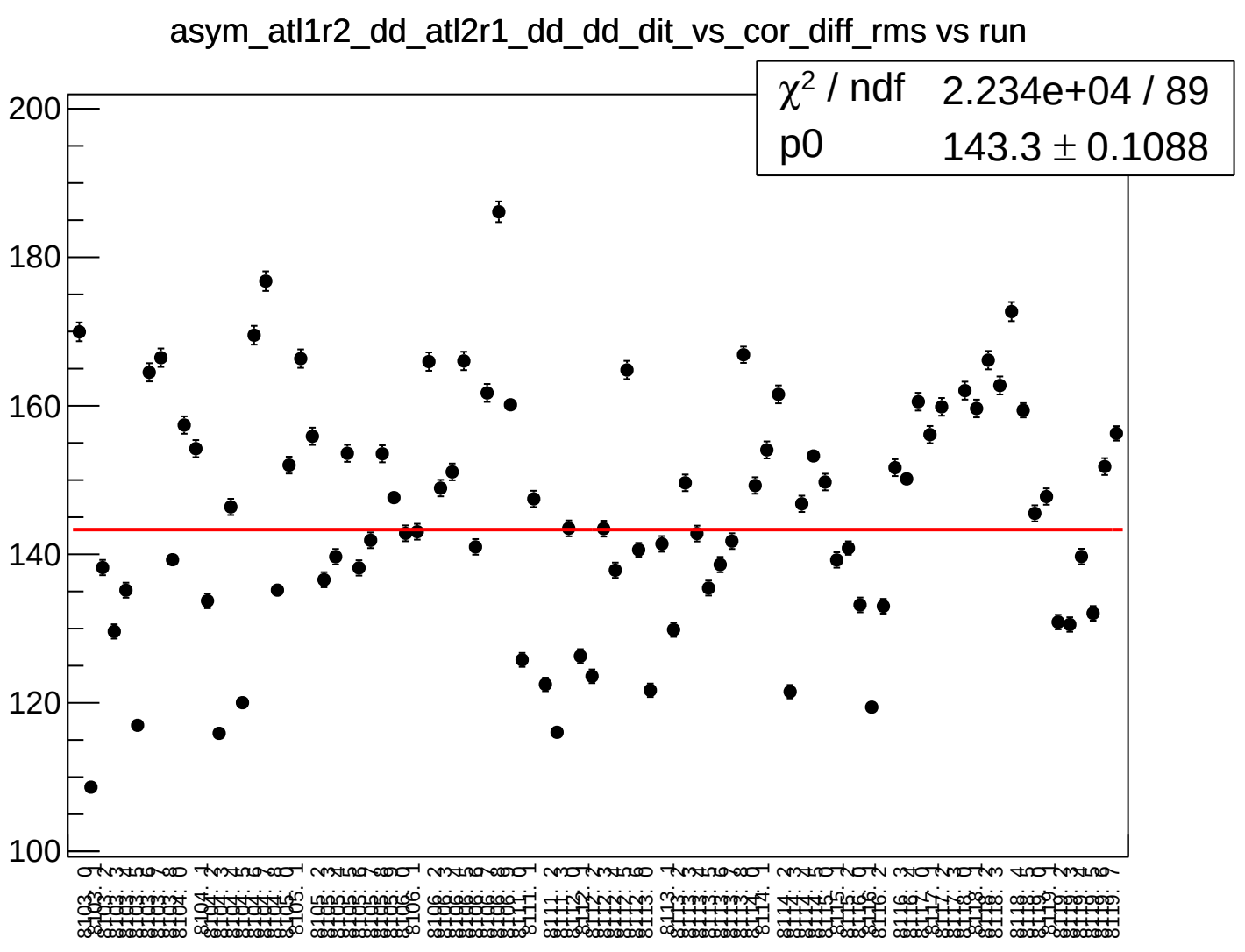

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.23 / 89
p0 2.029e−12 ± 8.596e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 90
Mean 55.8
Std Dev 32.68
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.04951
Std Dev 0.925
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

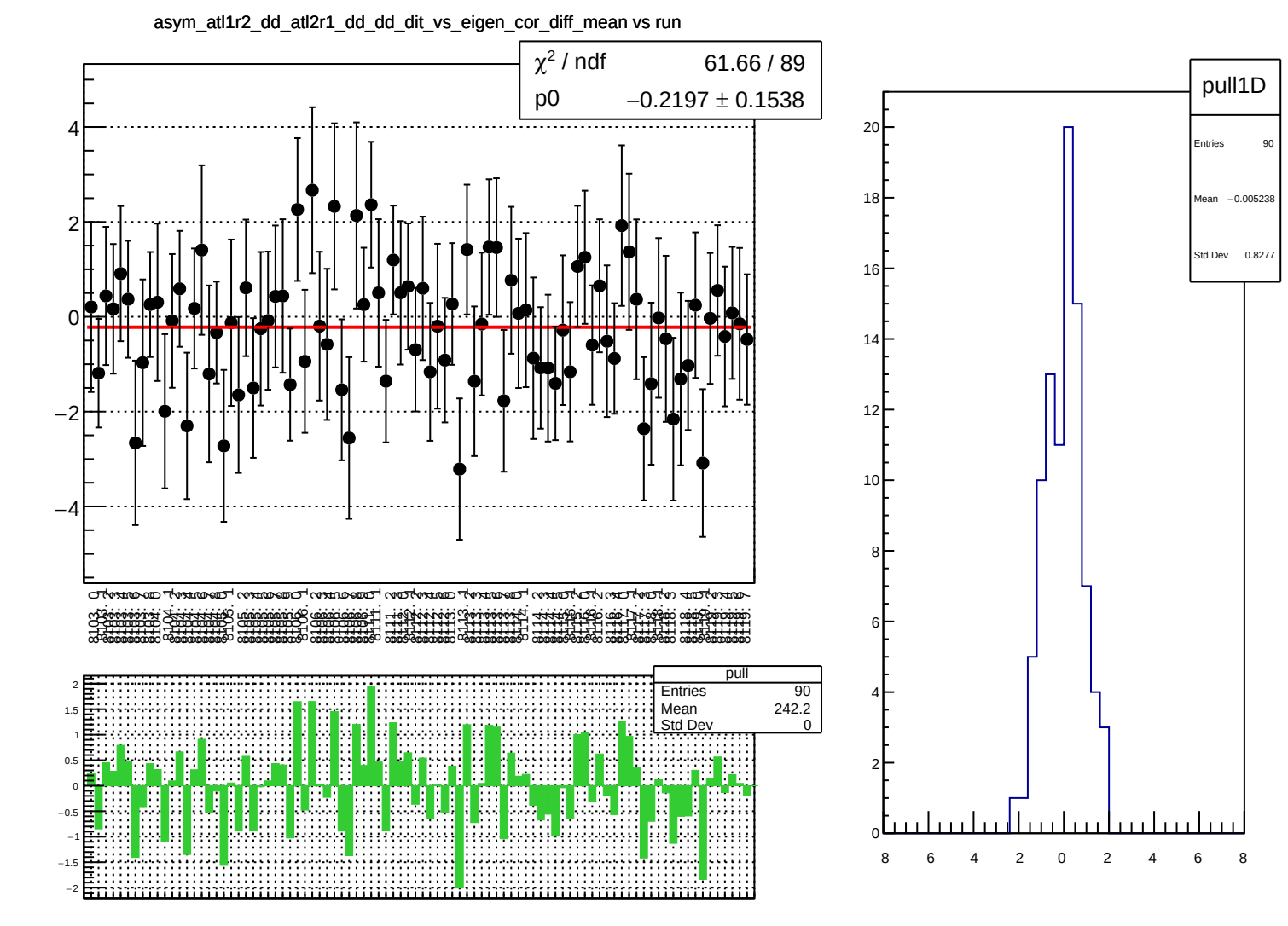

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.413e+05 / 89
p0 5.822e−10 ± 6.078e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

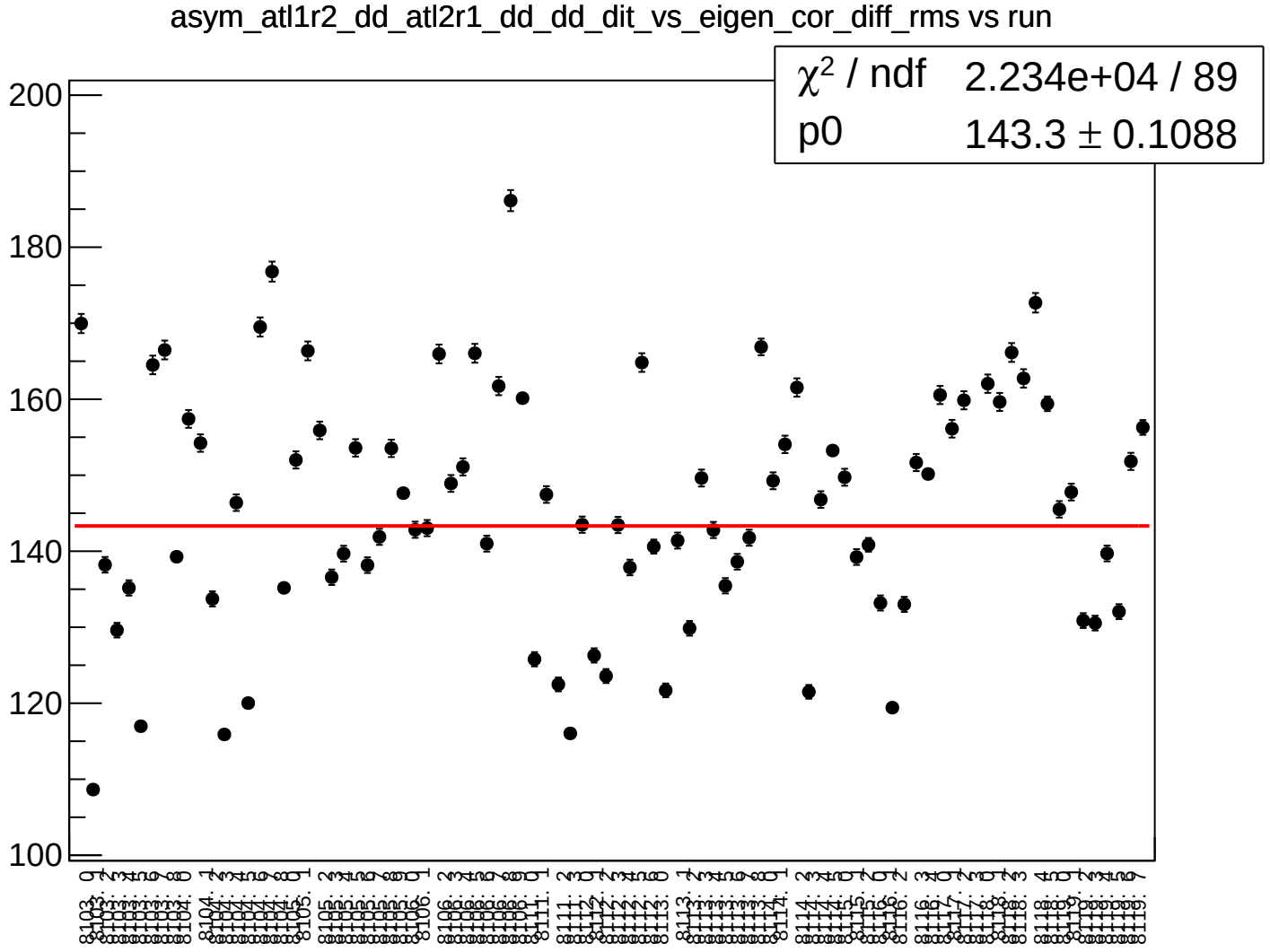
asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run

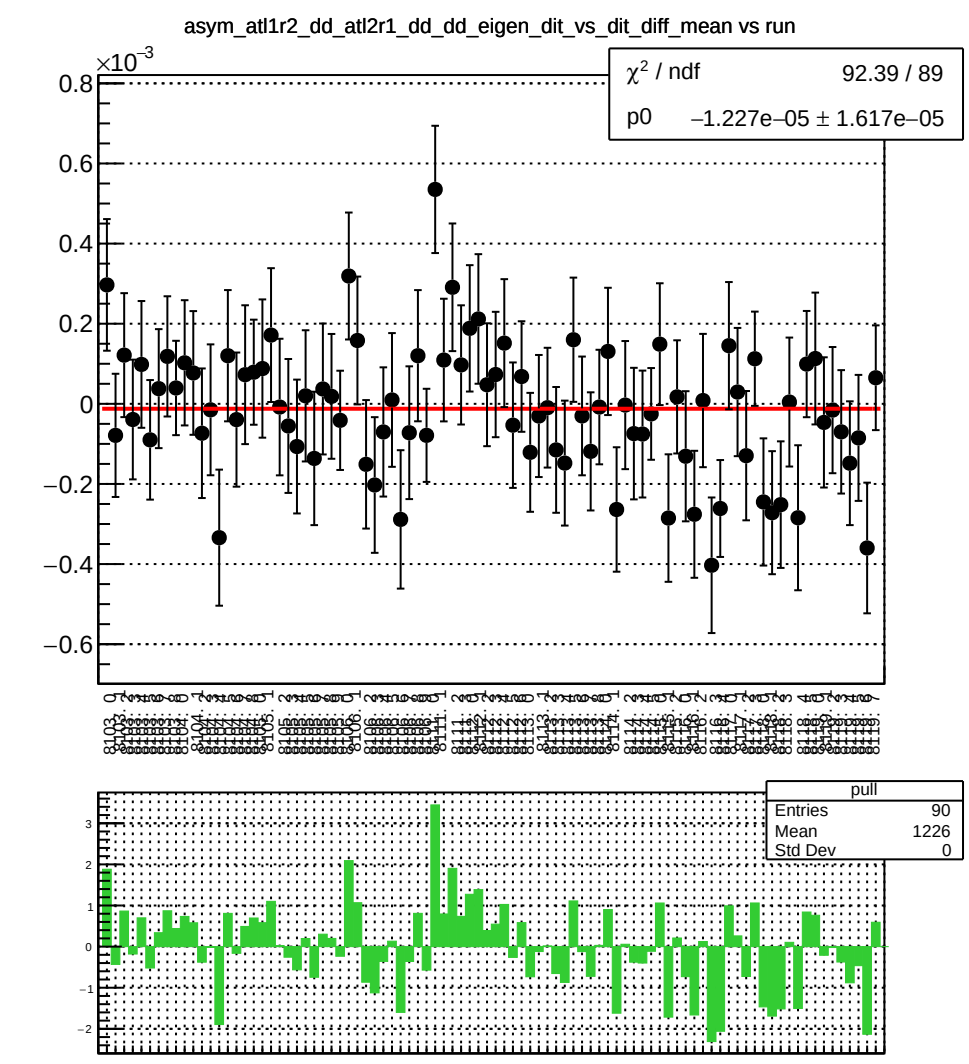


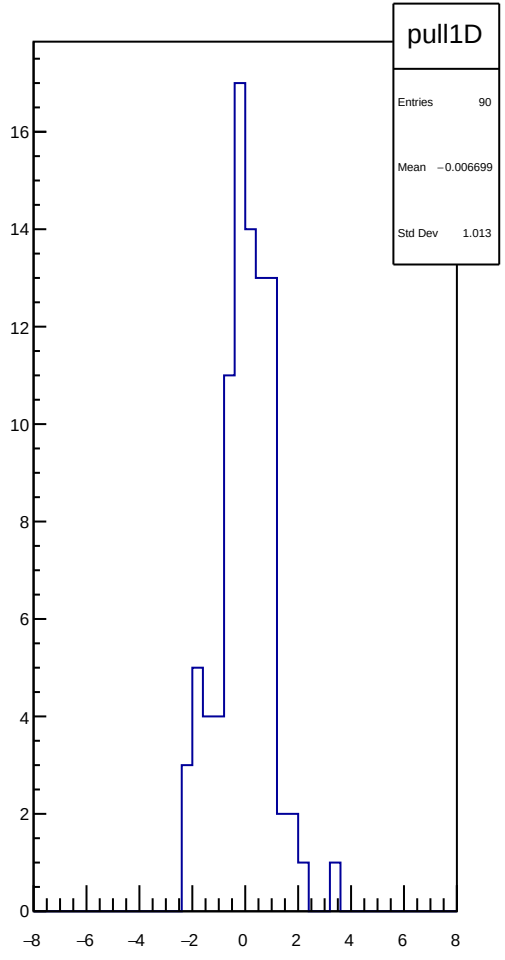


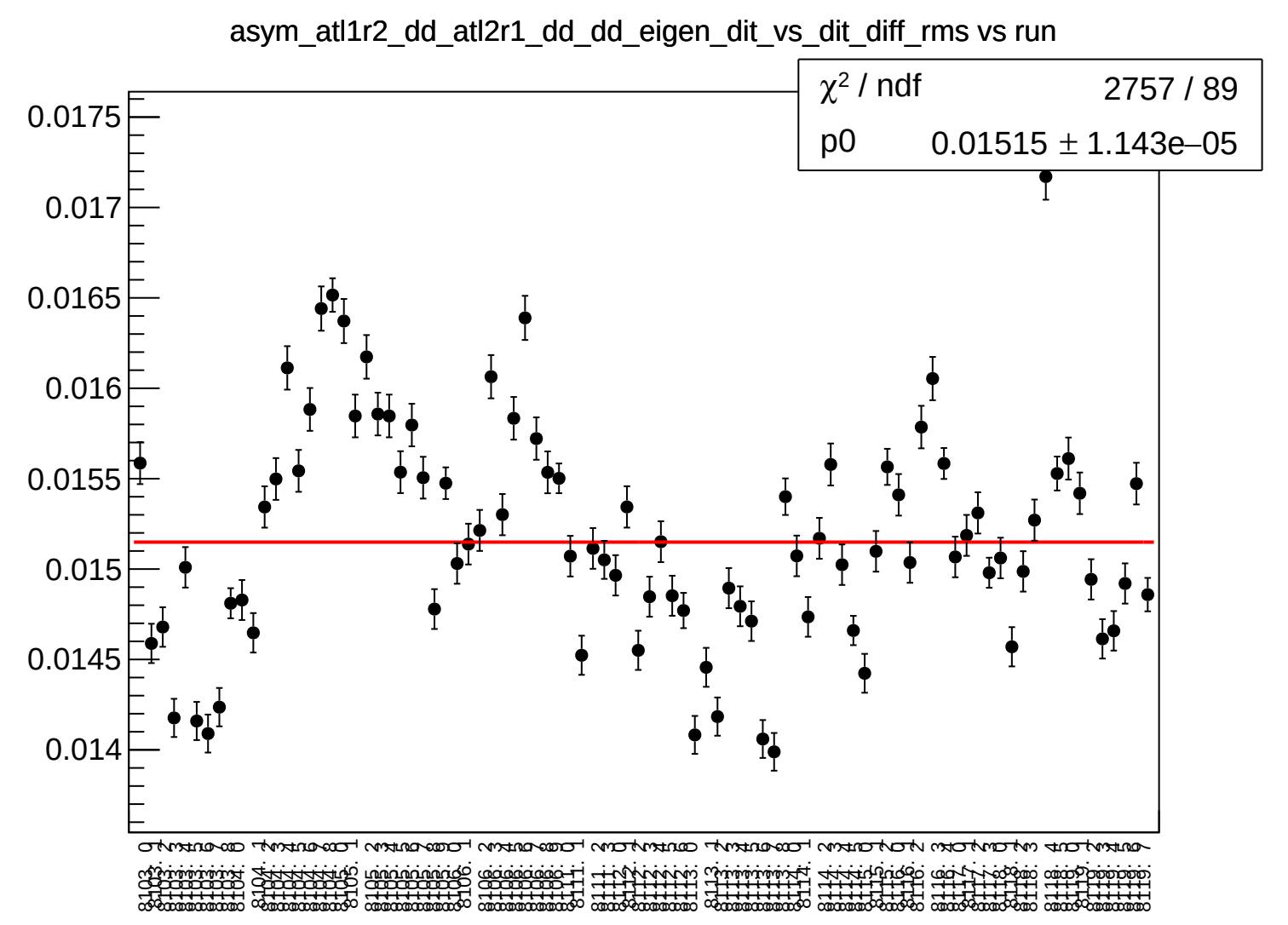

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

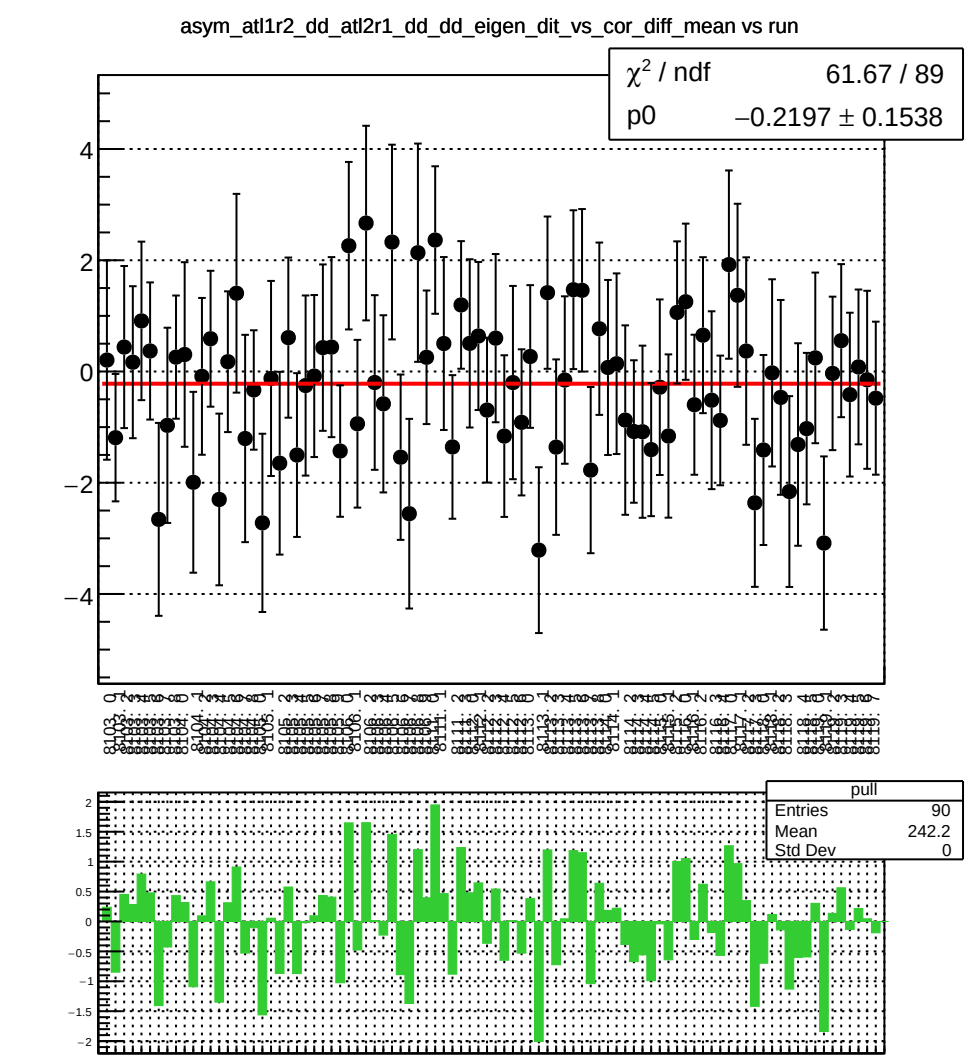

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.66 / 89
p0 −0.2197 ± 0.1538
pull
Entries 90
Mean 242.2
Std Dev 0
pull1D
Entries 90
Mean −0.005238
Std Dev 0.8277

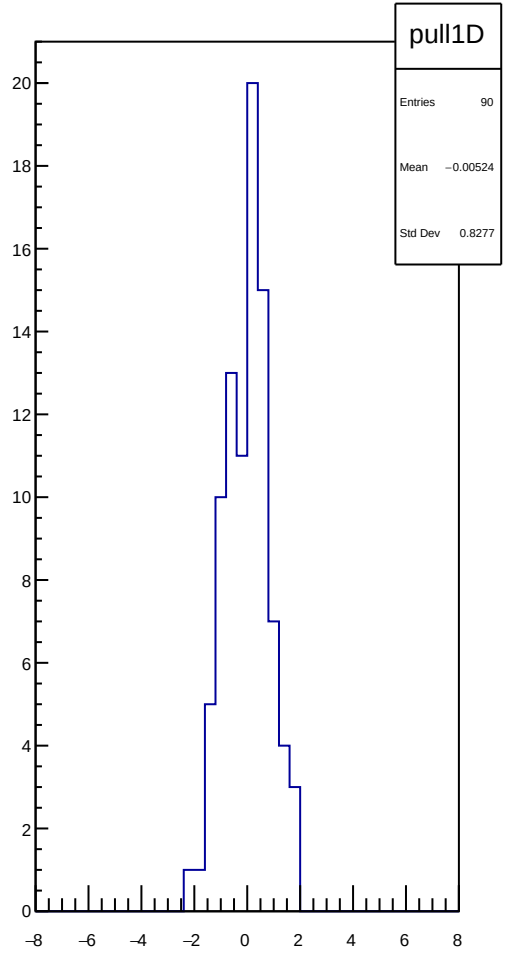

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

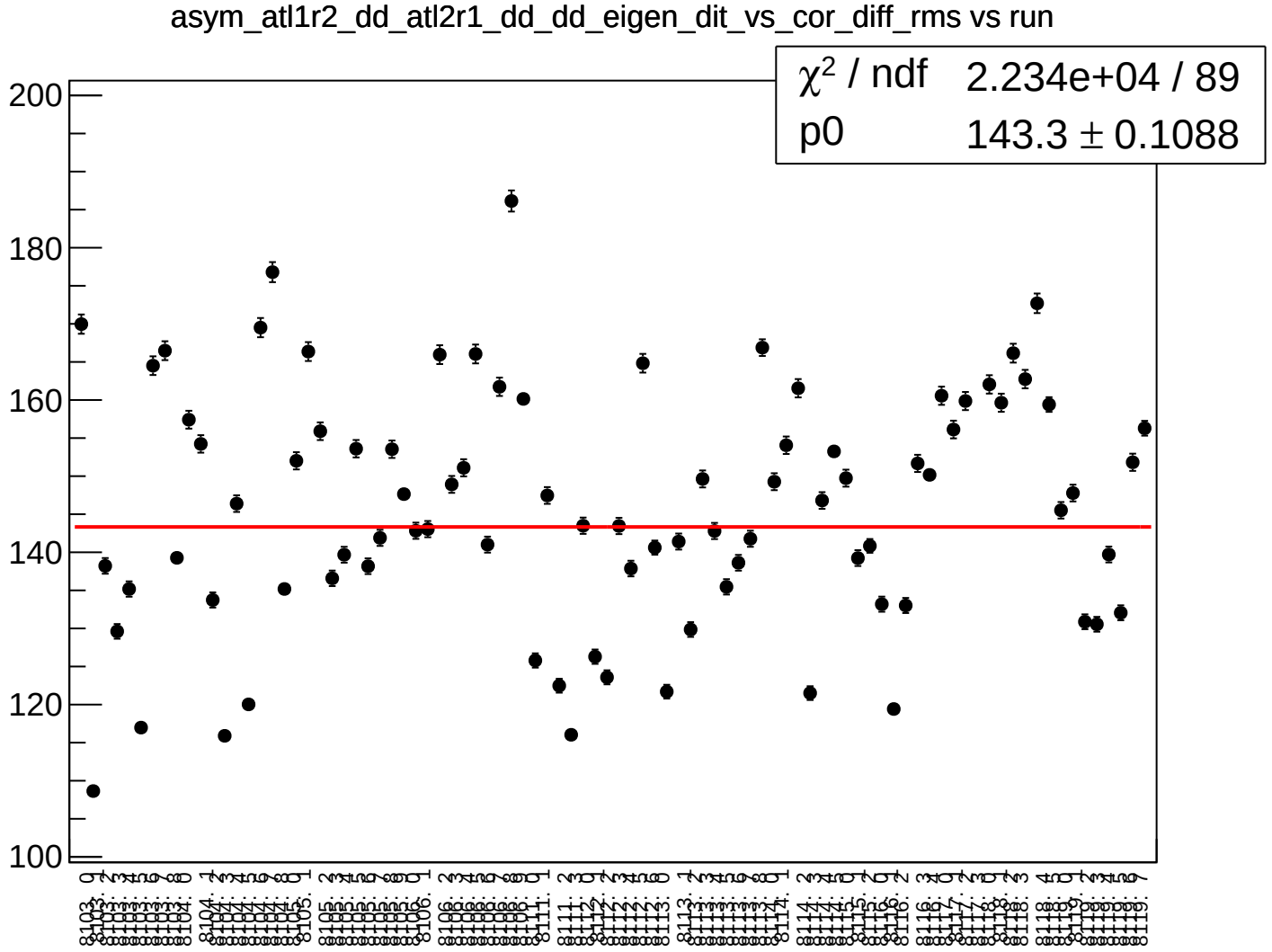

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.39 / 89
p0 −1.227e−05 ± 1.617e−05
pull
Entries 90
Mean 1226
Std Dev 0

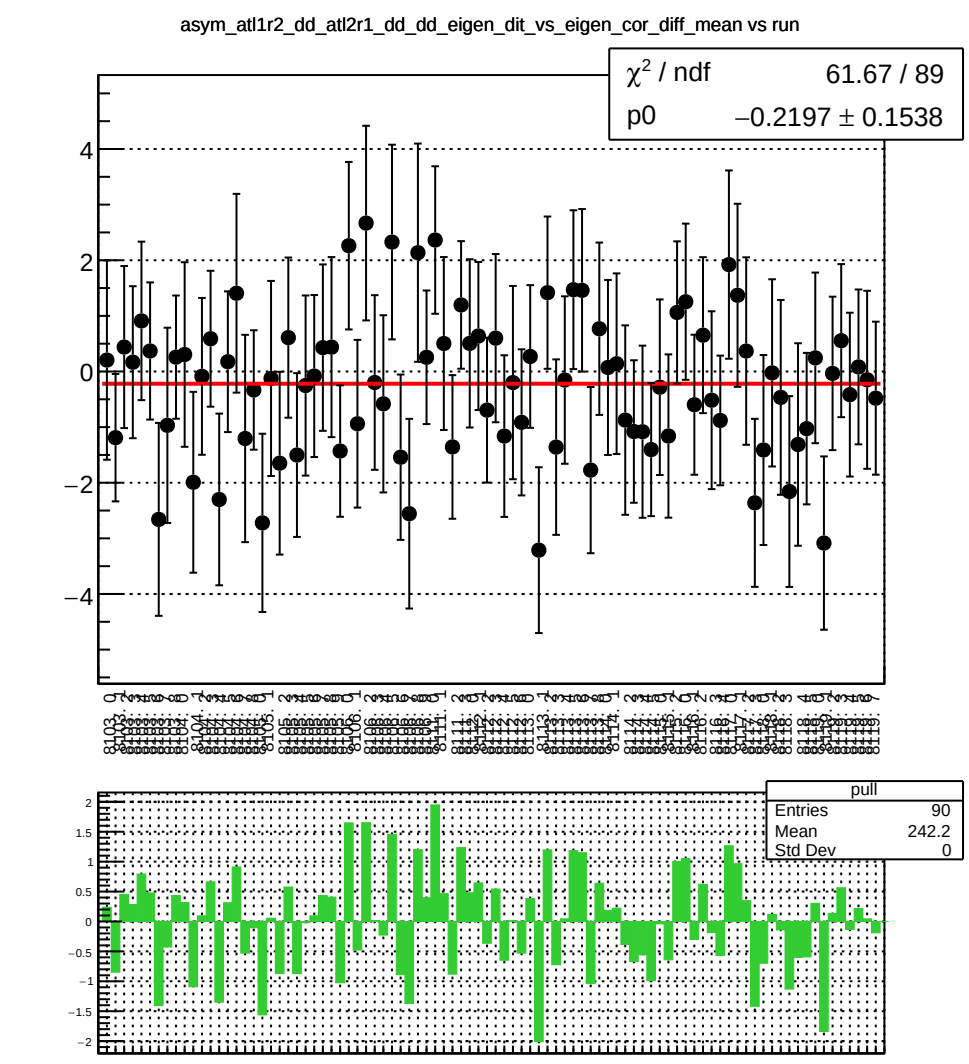

pull1D
Entries 90
Mean −0.006699
Std Dev 1.013

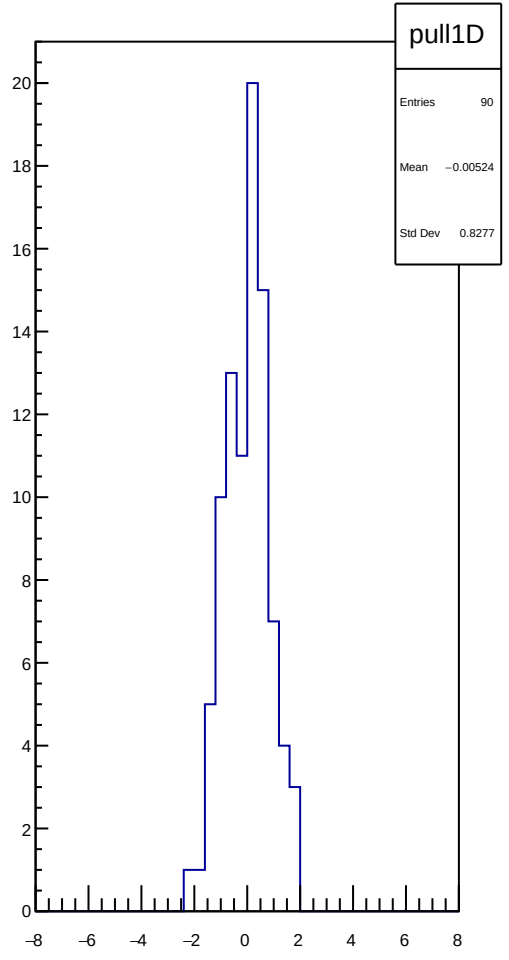

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2757 / 89
p0 0.01515 ± 1.143e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

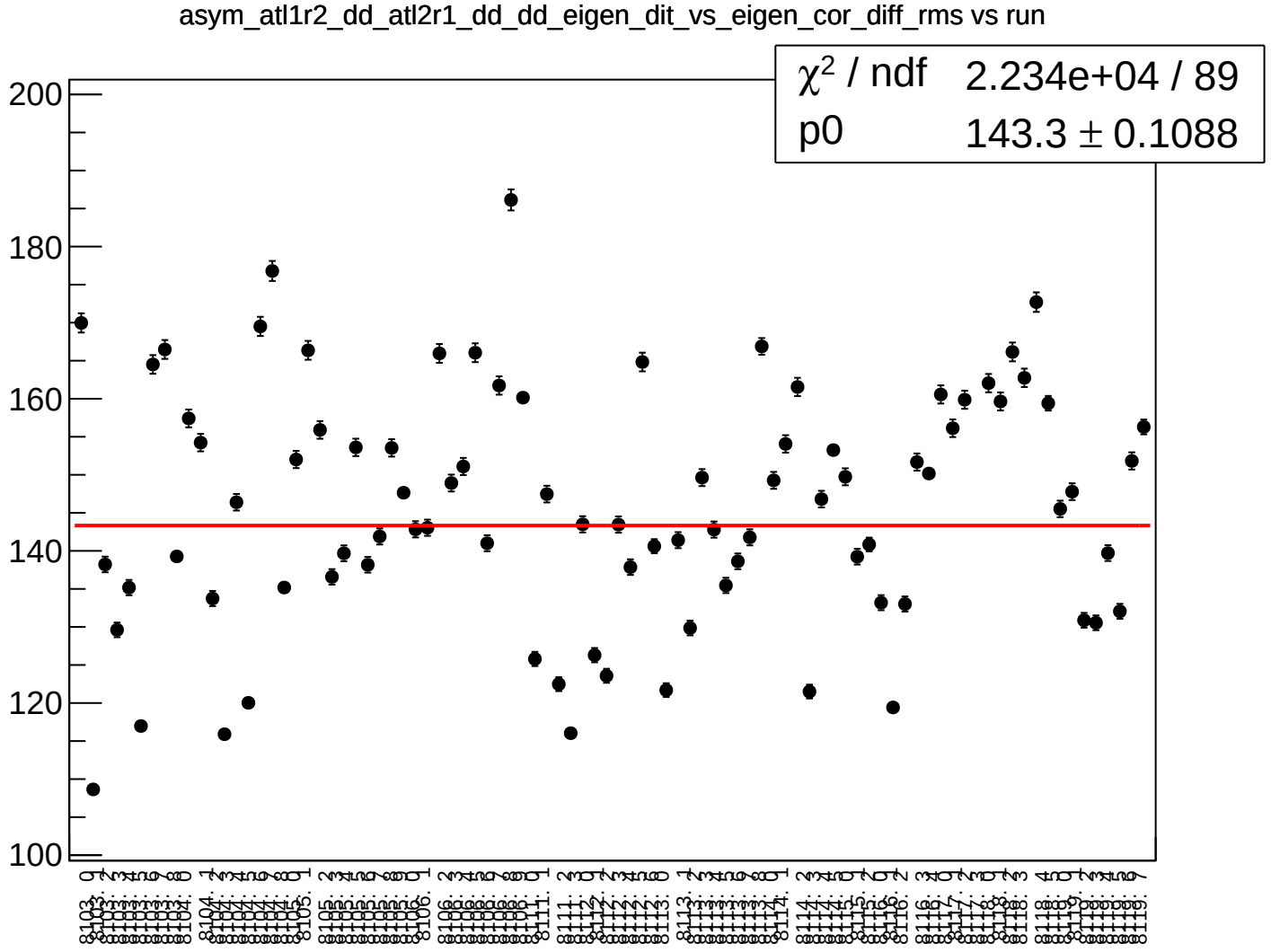

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.67 / 89
p0 −0.2197 ± 0.1538
pull
Entries 90
Mean 242.2
Std Dev 0

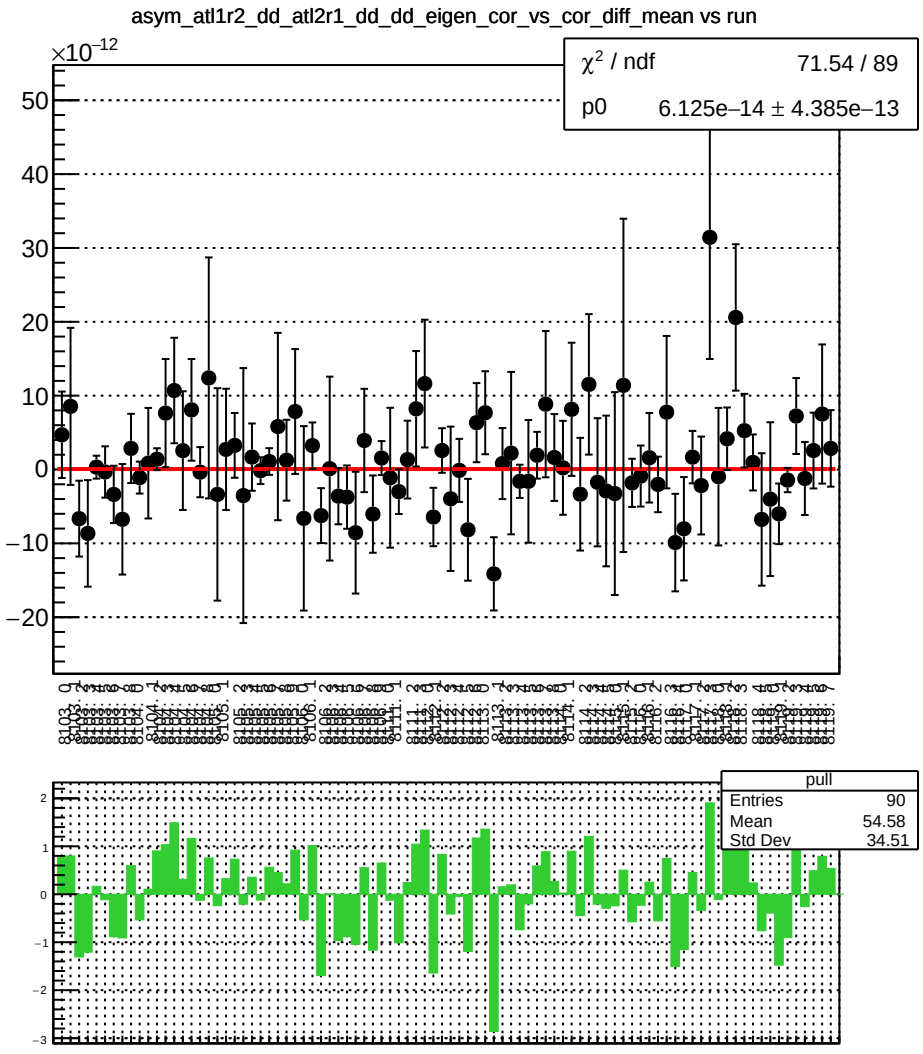

pull1D
Entries 90
Mean −0.00524
Std Dev 0.8277

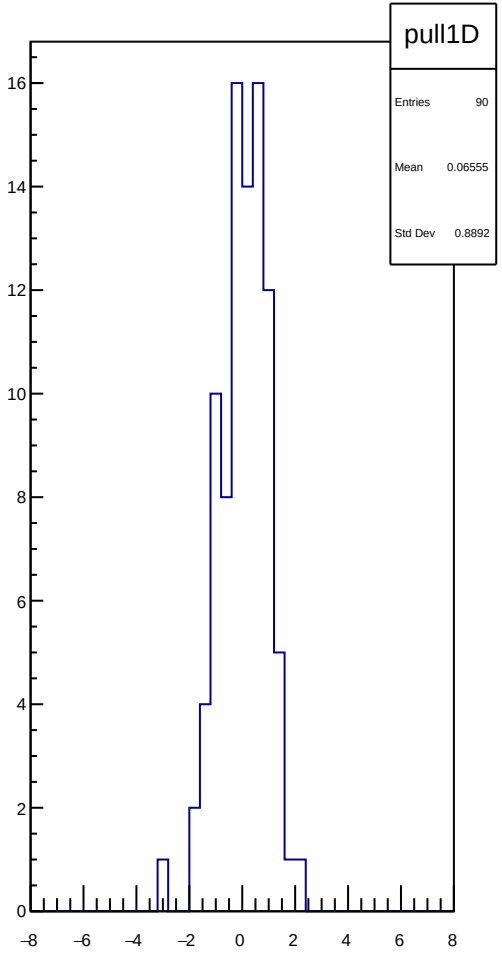

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

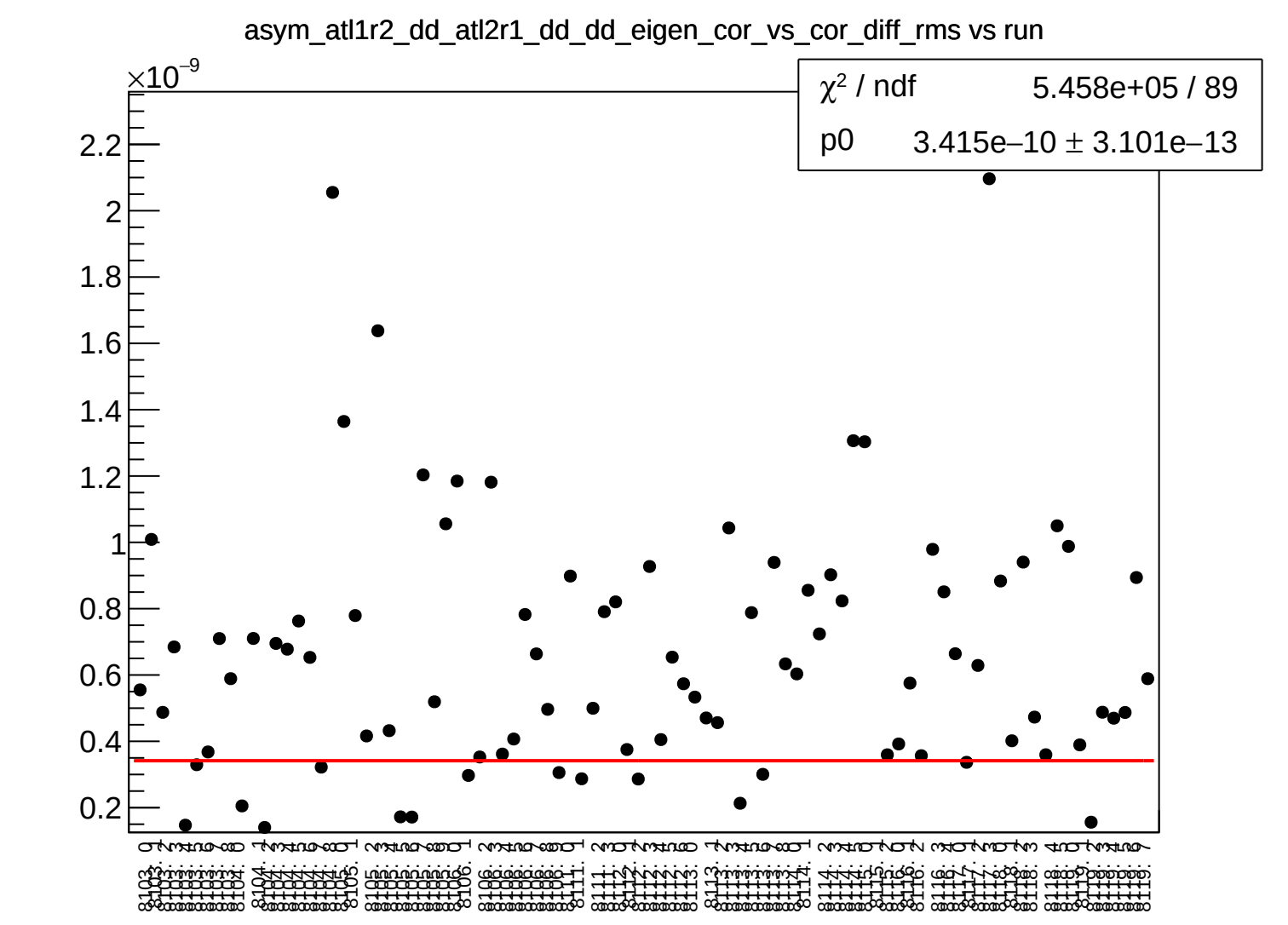

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.67 / 89
p0 −0.2197 ± 0.1538
pull
Entries 90
Mean 242.2
Std Dev 0

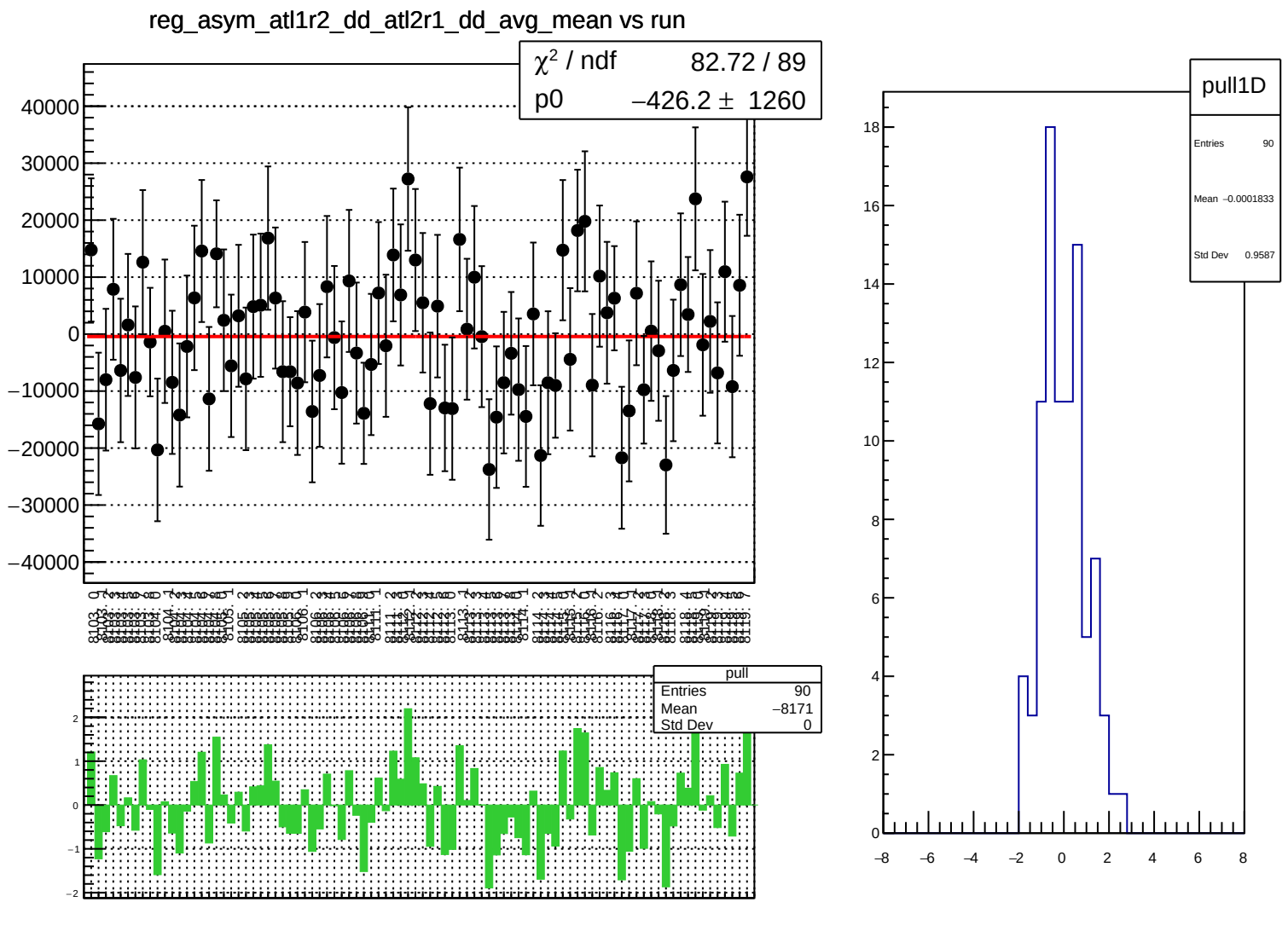

pull1D
Entries 90
Mean −0.00524
Std Dev 0.8277

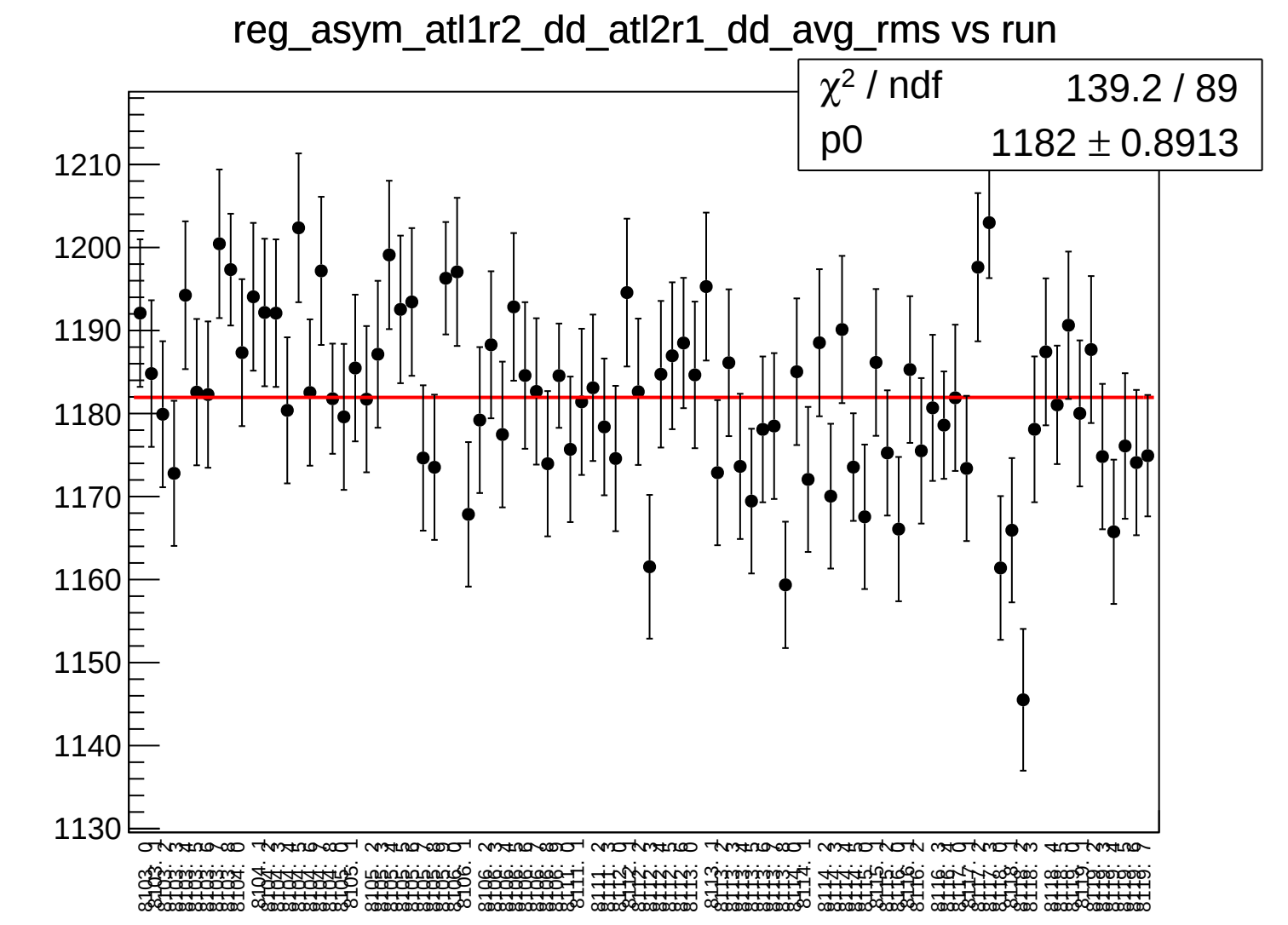

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.234e+04 / 89
p0 143.3 ± 0.1088
200
180
160
140
120
100

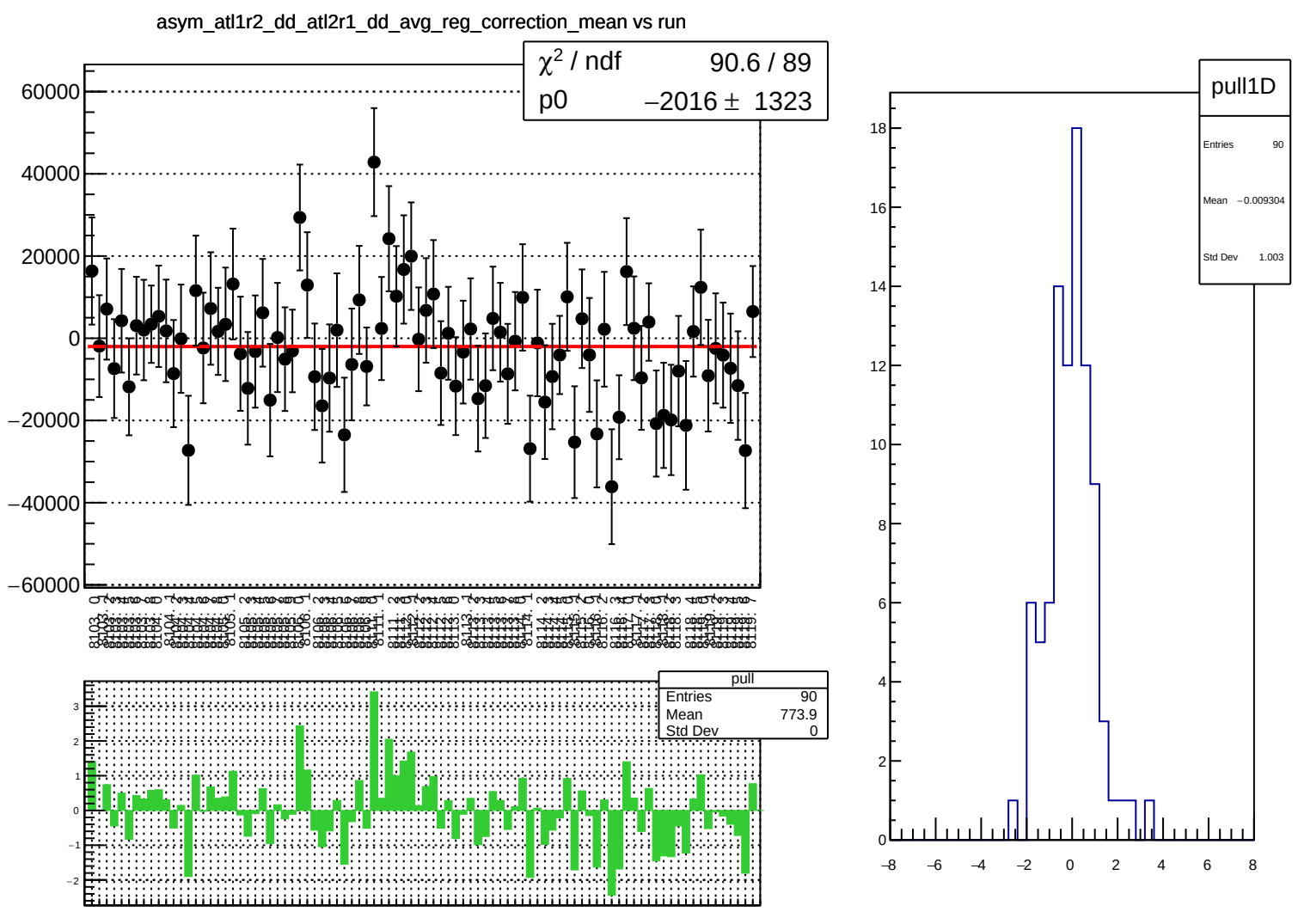

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 71.54 / 89
p0 6.125e−14 ± 4.385e−13
pull
Entries 90
Mean 54.58
Std Dev 34.51

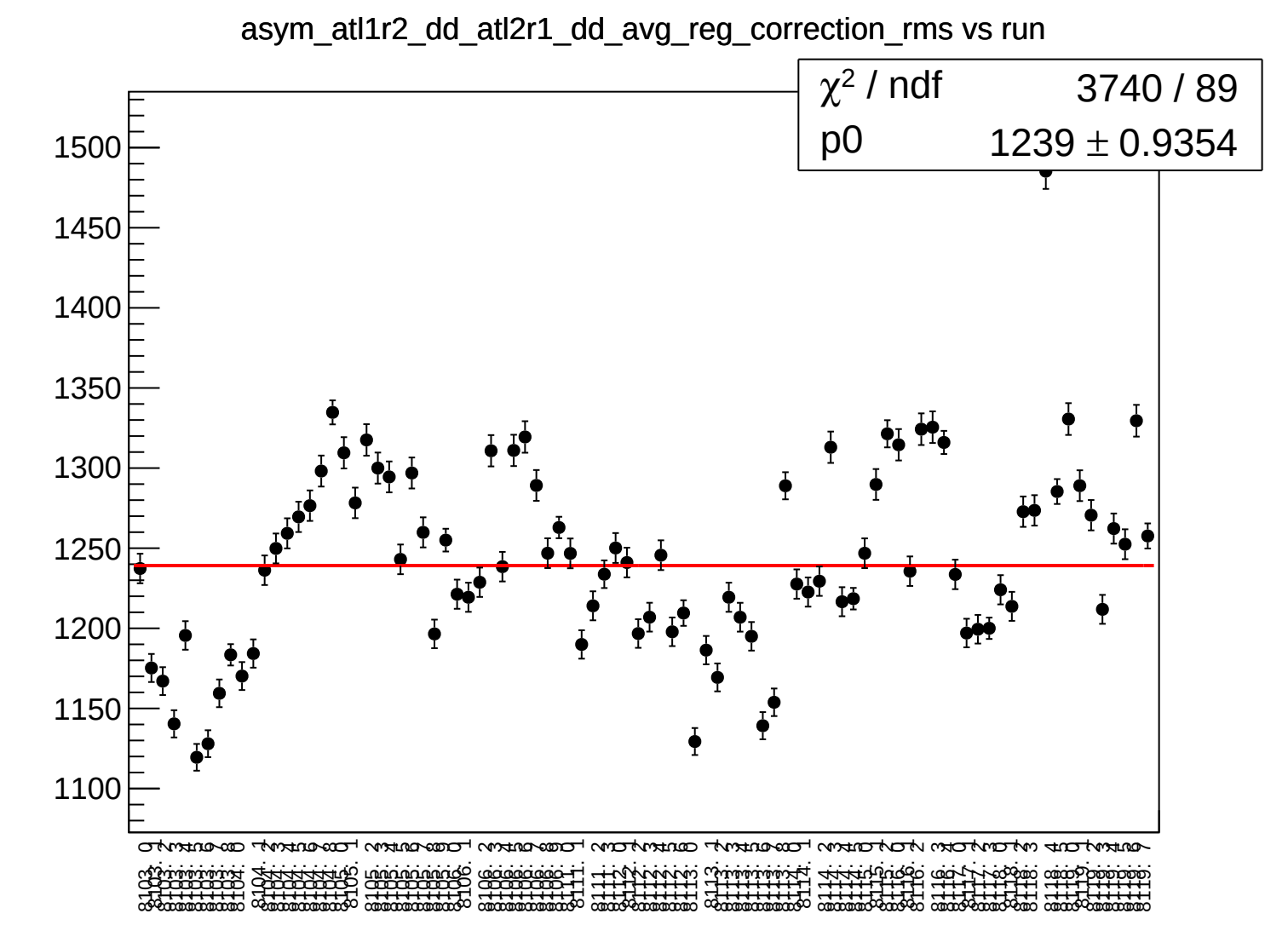

pull1D
Entries 90
Mean 0.06555
Std Dev 0.8892

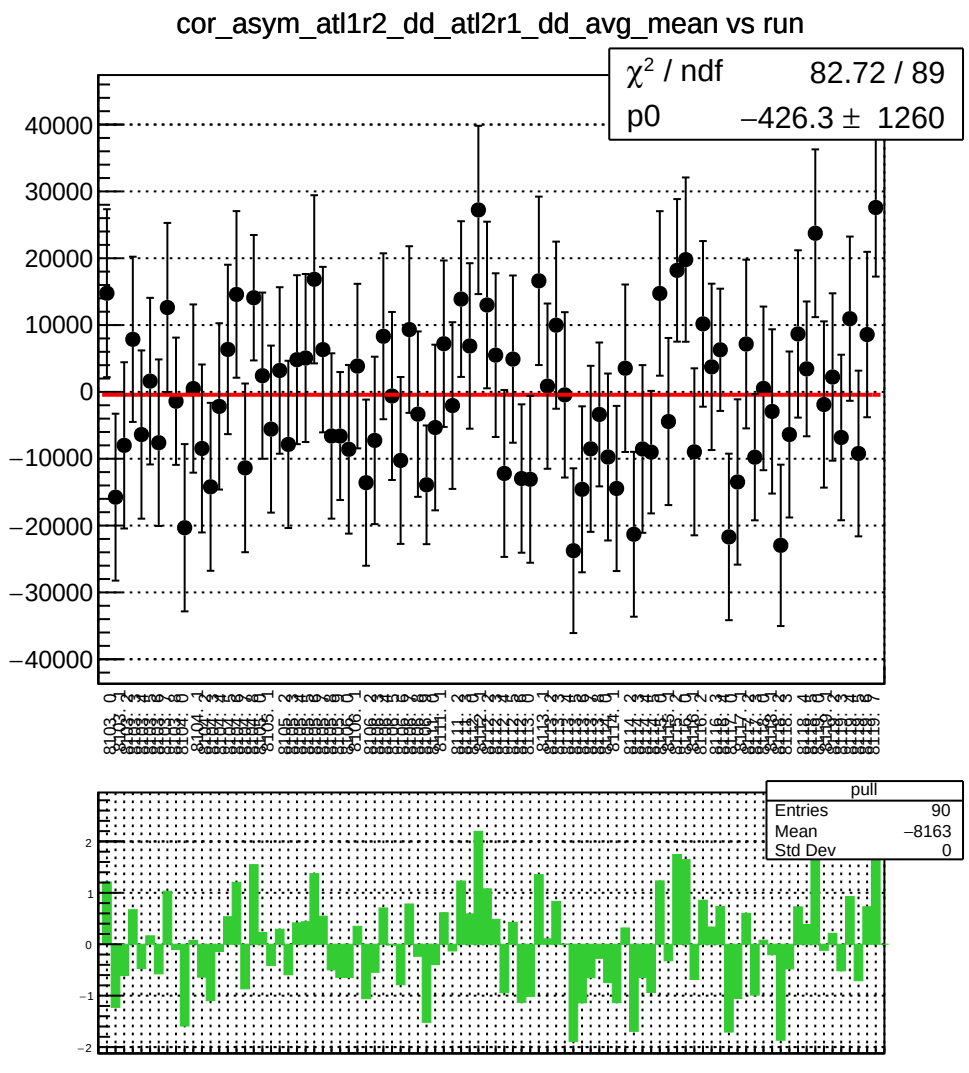

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.458e+05 / 89
p0 3.415e−10 ± 3.101e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

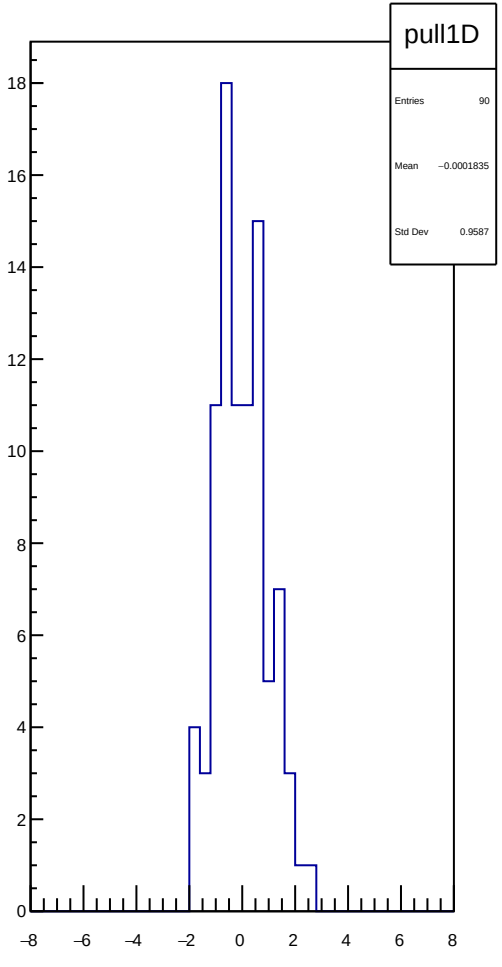

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.72 / 89
p0 −426.2 ± 1260
pull
Entries 90
Mean −8171
Std Dev 0
pull1D
Entries 90
Mean −0.0001833
Std Dev 0.9587

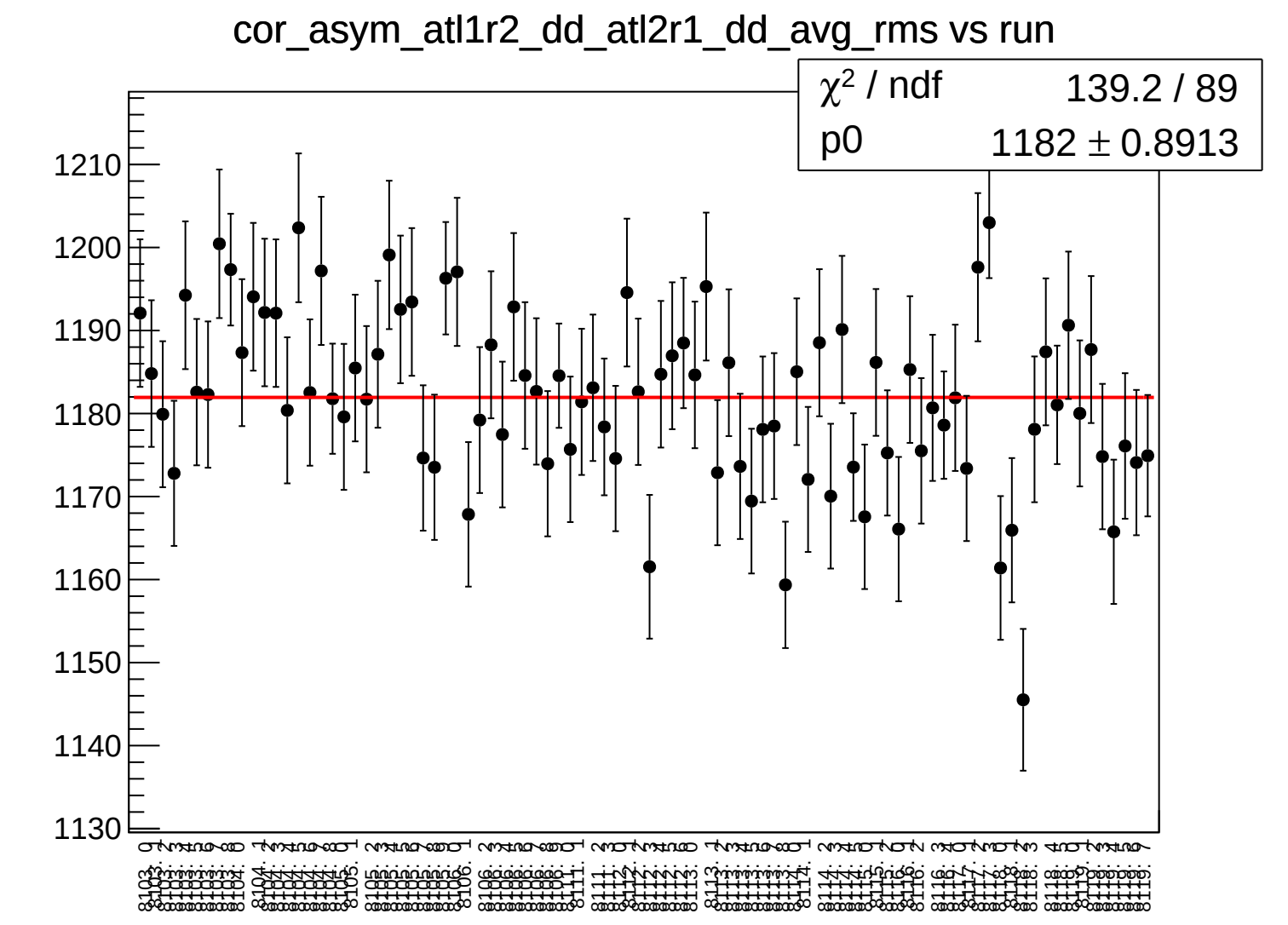

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 139.2 / 89
p0 1182 ± 0.8913
1210
1200
1190
1180
1170
1160
1150
1140
1130

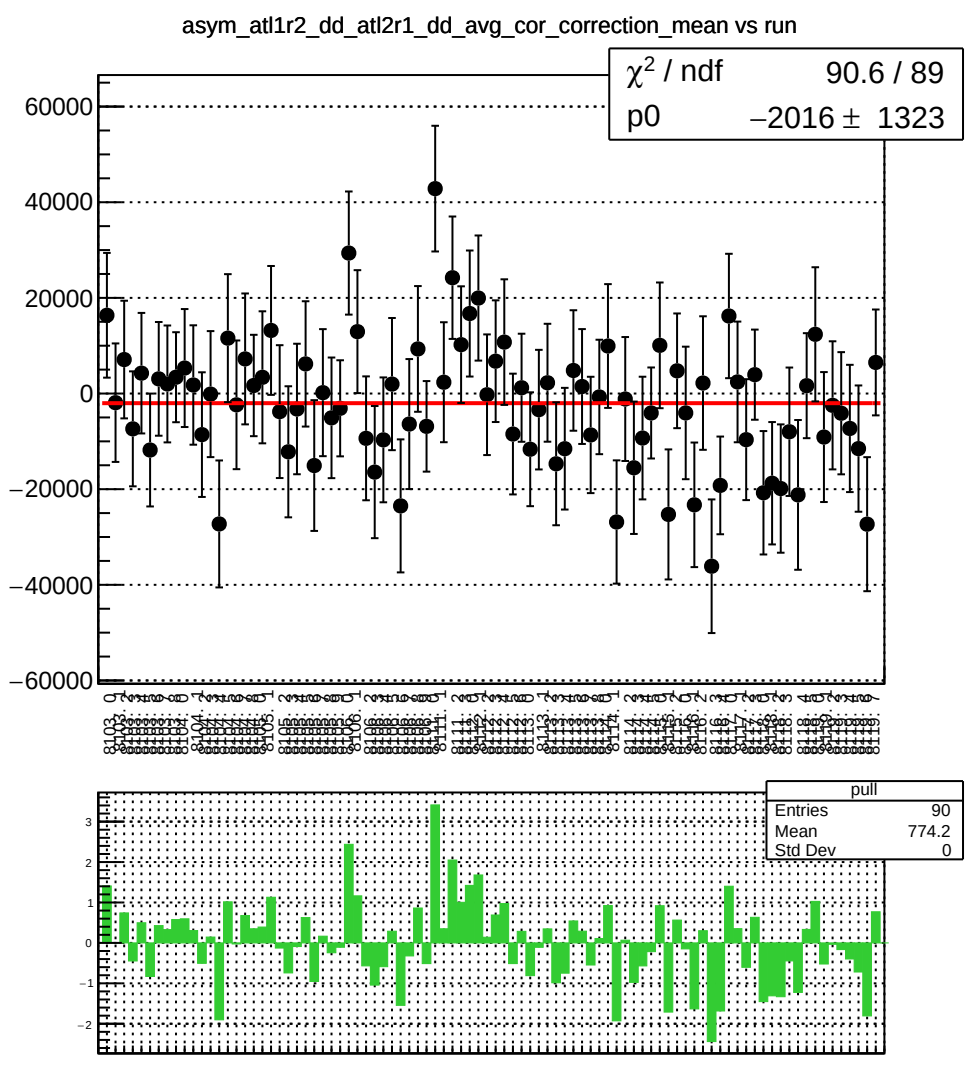

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 90.6 / 89
p0 −2016 ± 1323
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 773.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.009304
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

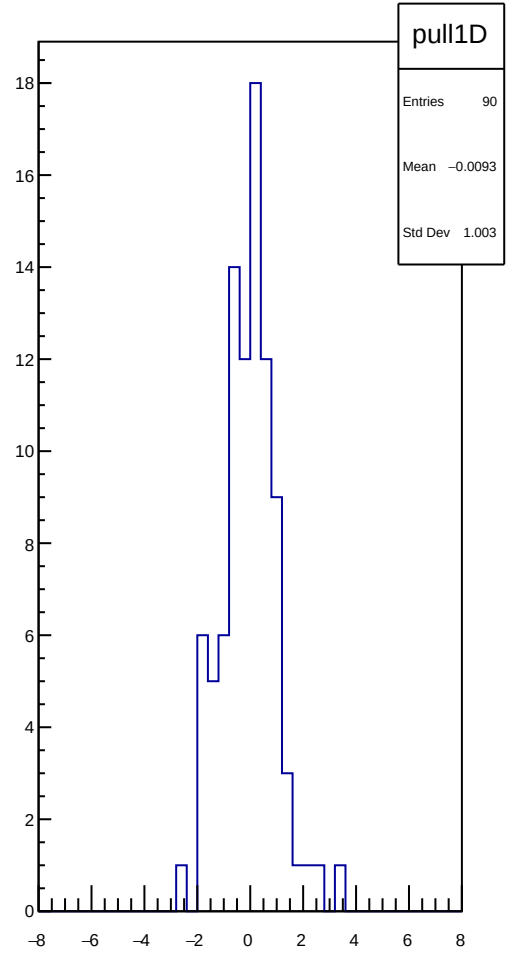

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 3740 / 89
p0 1239 ± 0.9354
1500
1450
1400
1350
1300
1250
1200
1150
1100

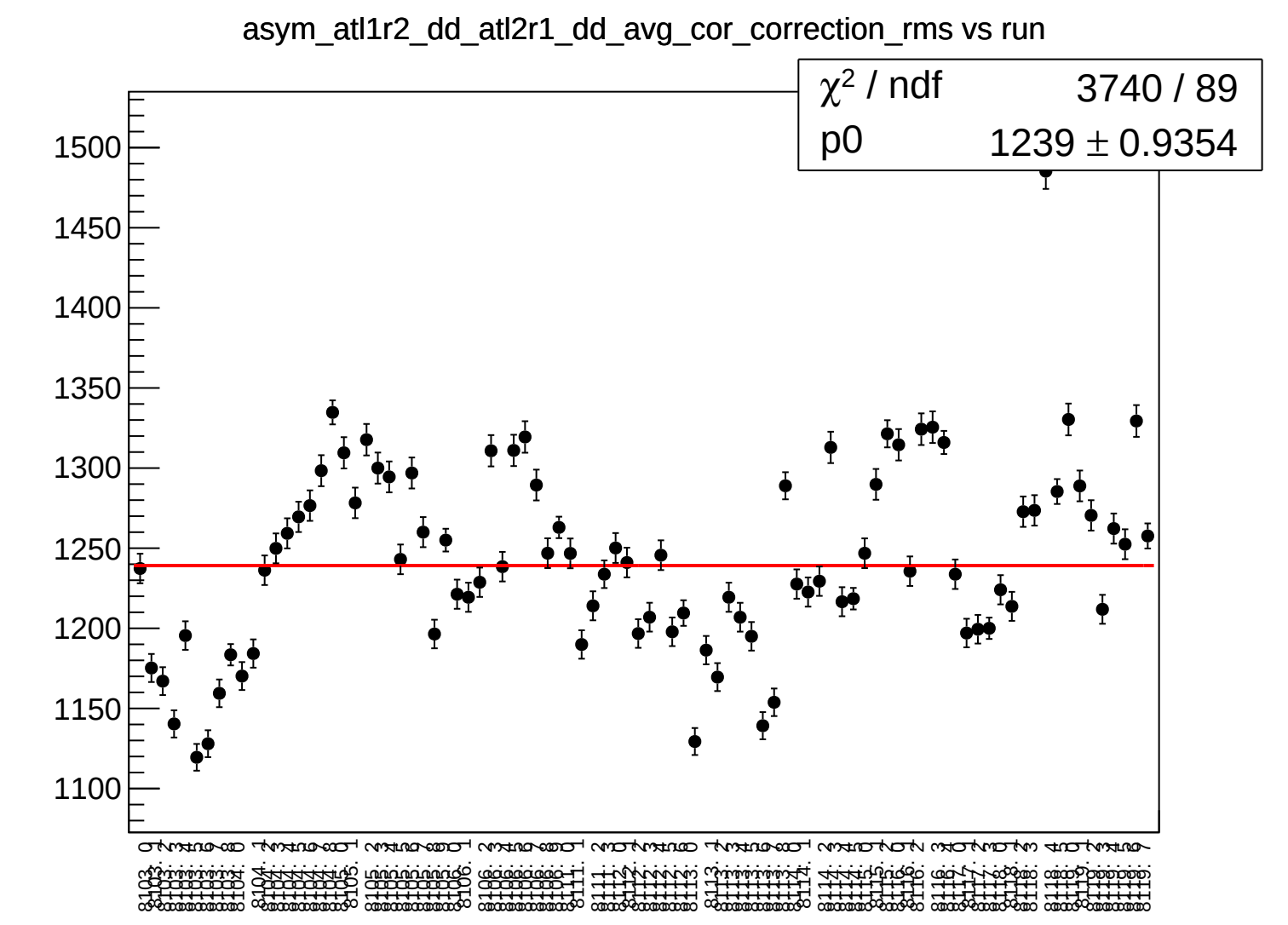

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.72 / 89
p0 −426.3 ± 1260
pull
Entries 90
Mean −8163
Std Dev 0

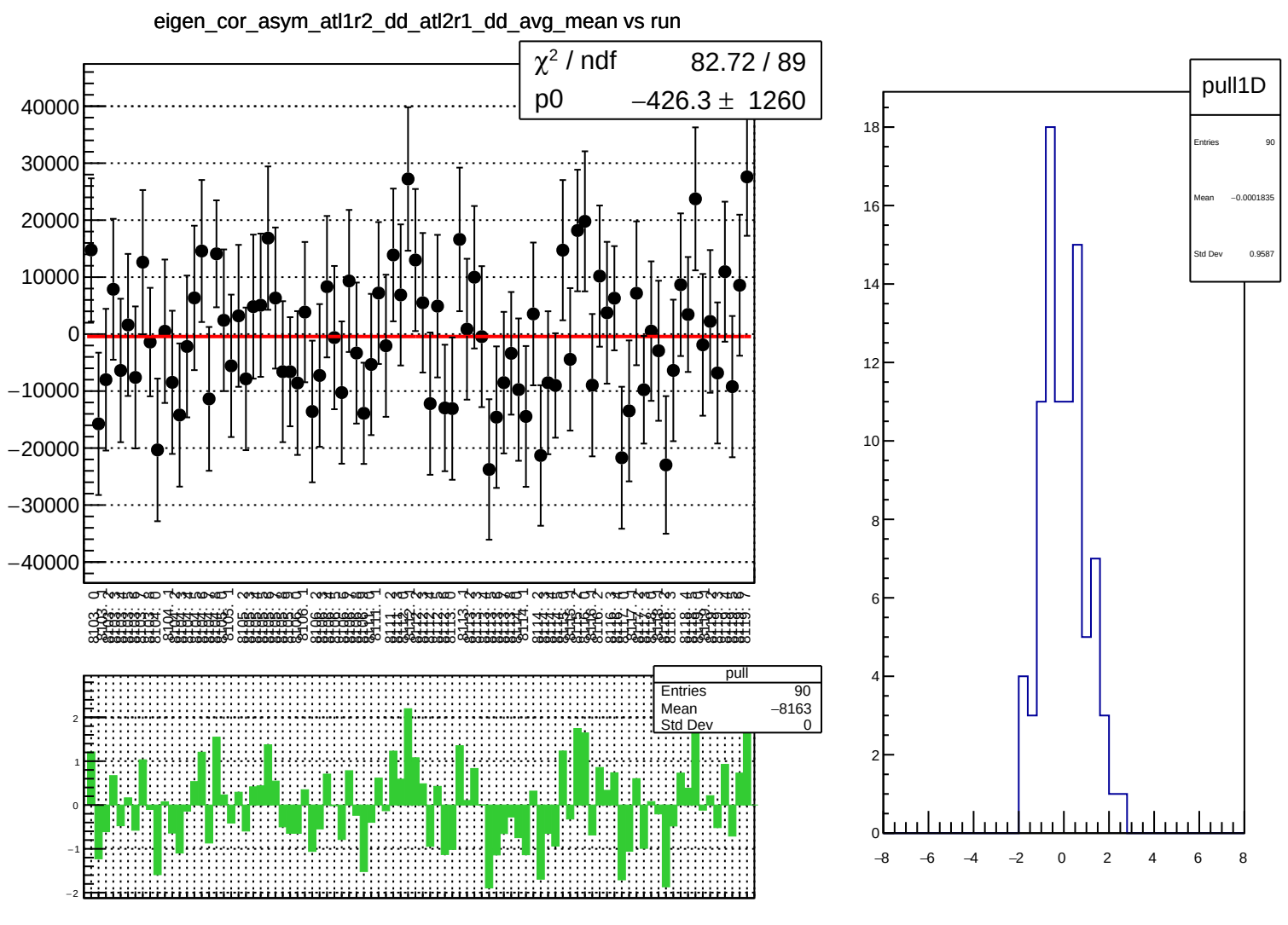

pull1D
Entries 90
Mean −0.0001835
Std Dev 0.9587

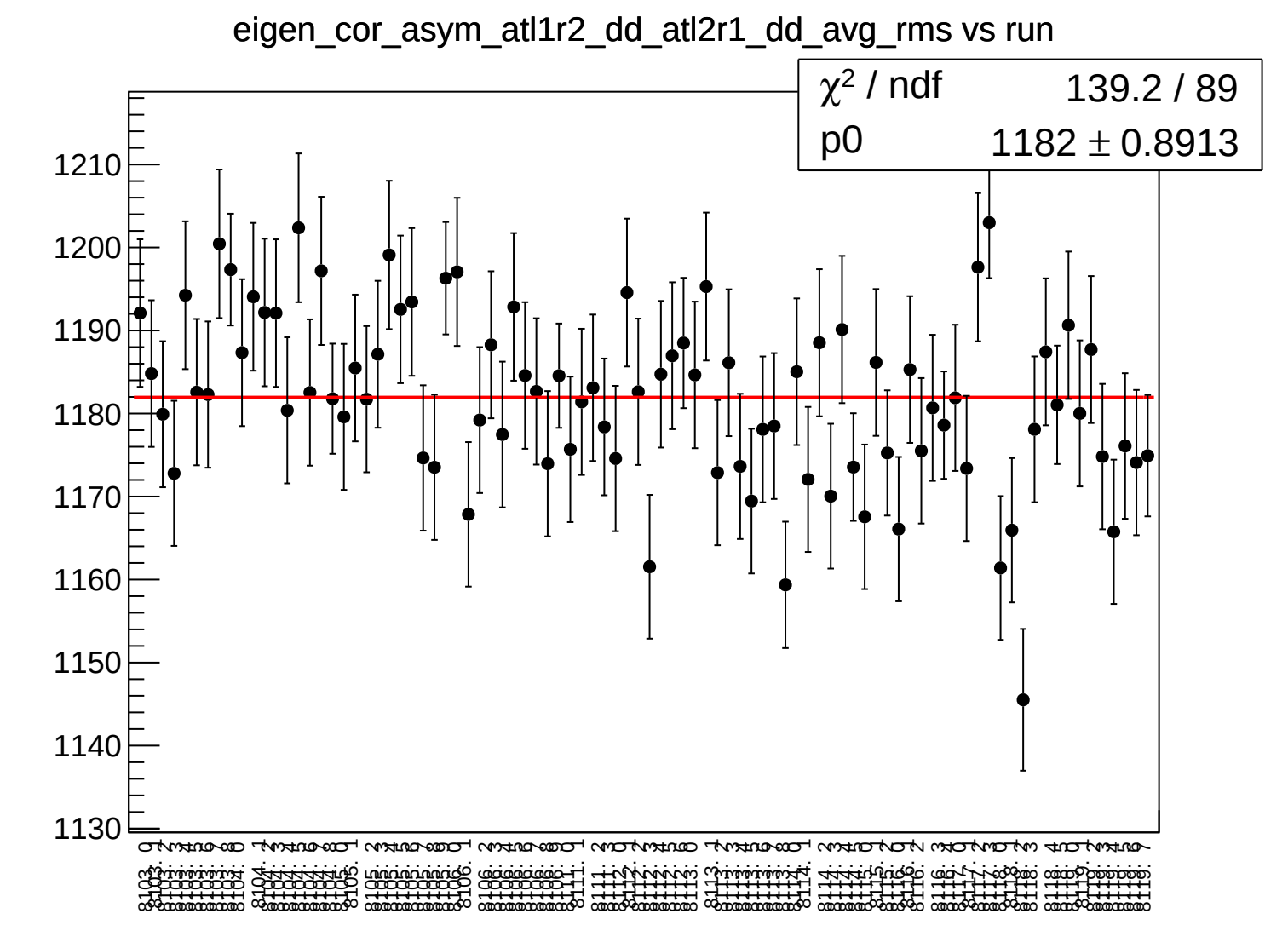

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 139.2 / 89
p0 1182 ± 0.8913
1210
1200
1190
1180
1170
1160
1150
1140
1130

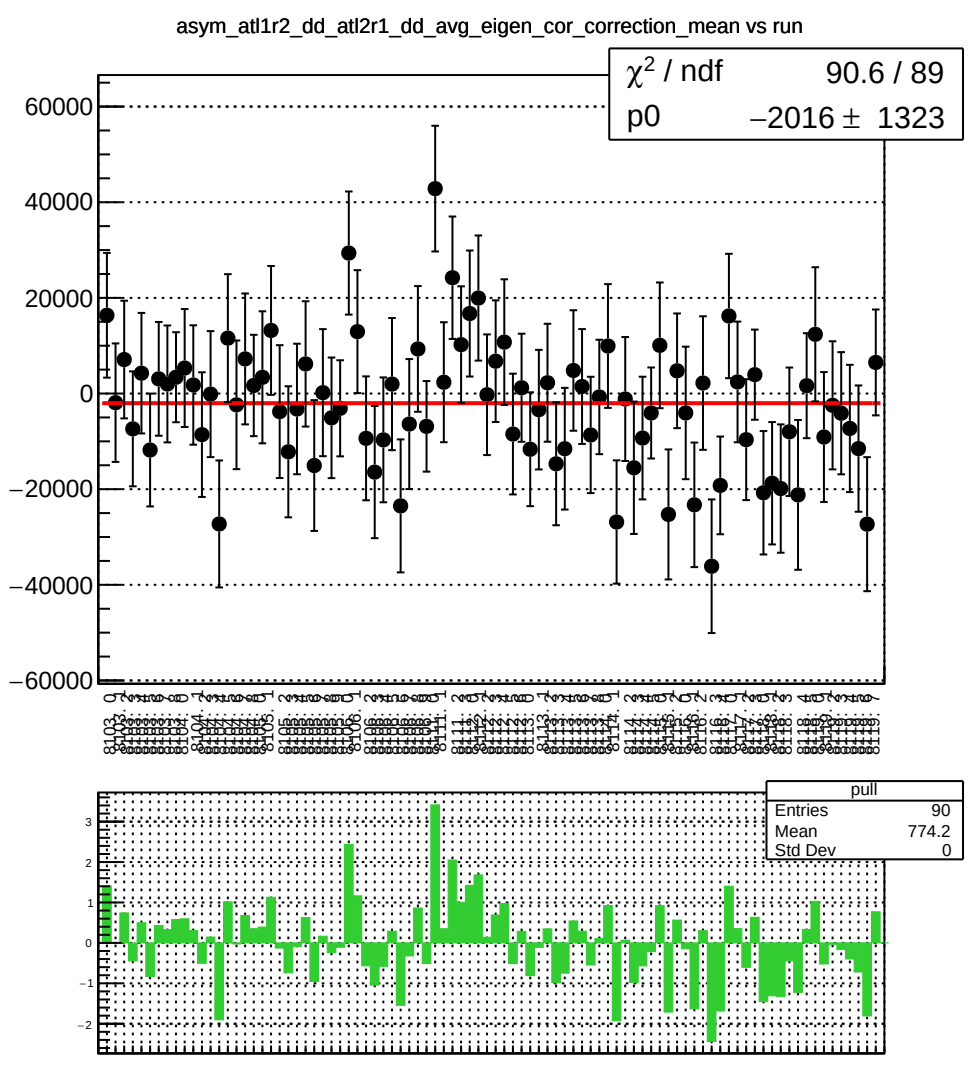

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 90.6 / 89
p0 −2016 ± 1323
pull
Entries 90
Mean 774.2
Std Dev 0

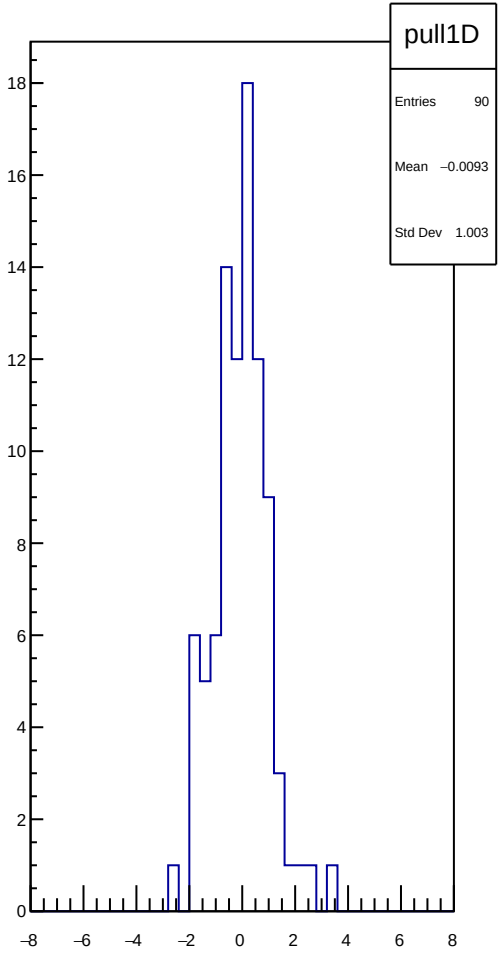

pull1D
Entries 90
Mean −0.0093
Std Dev 1.003

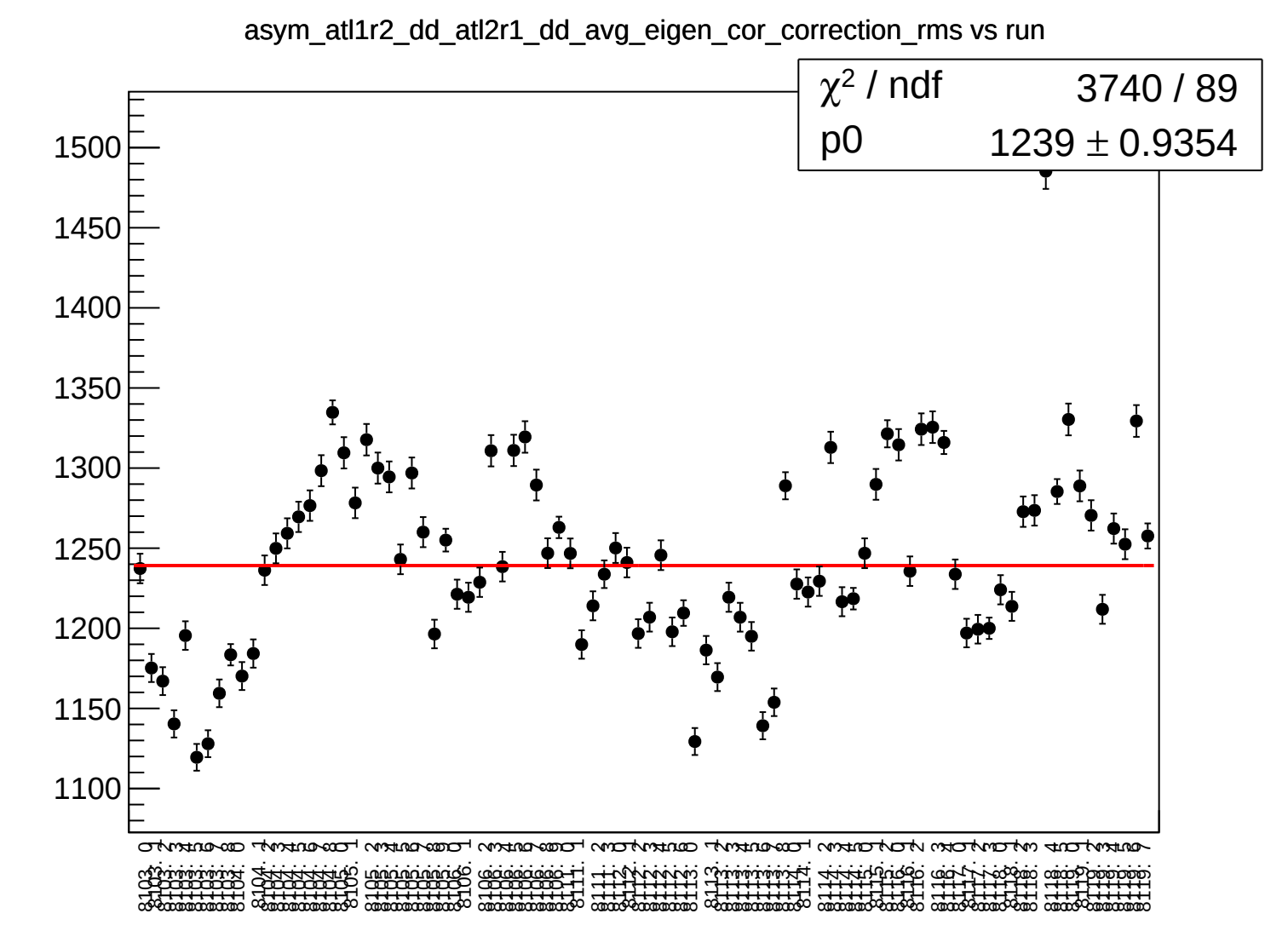

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 3740 / 89
p0 1239 ± 0.9354
1500
1450
1400
1350
1300
1250
1200
1150
1100

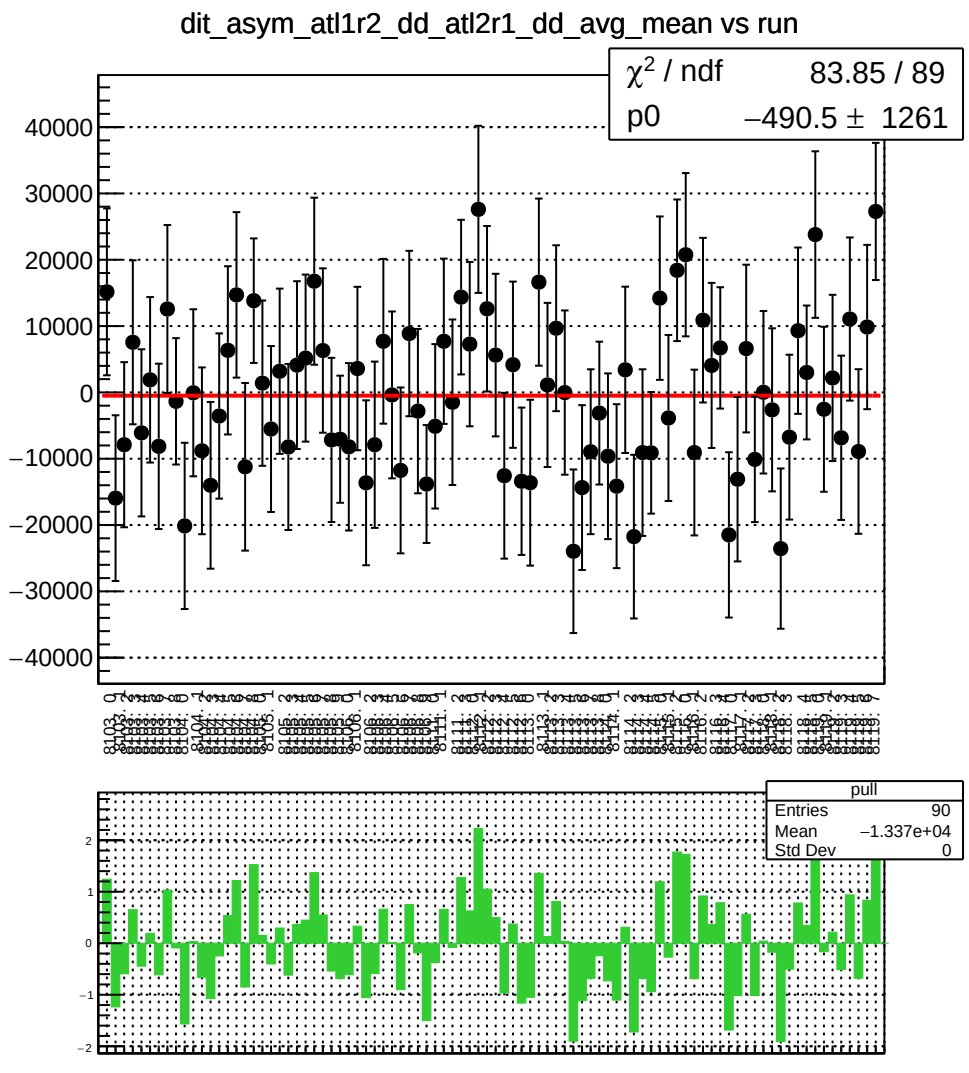

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.72 / 89
p0 −426.3 ± 1260
pull
Entries 90
Mean −8163
Std Dev 0
pull1D
Entries 90
Mean −0.0001835
Std Dev 0.9587

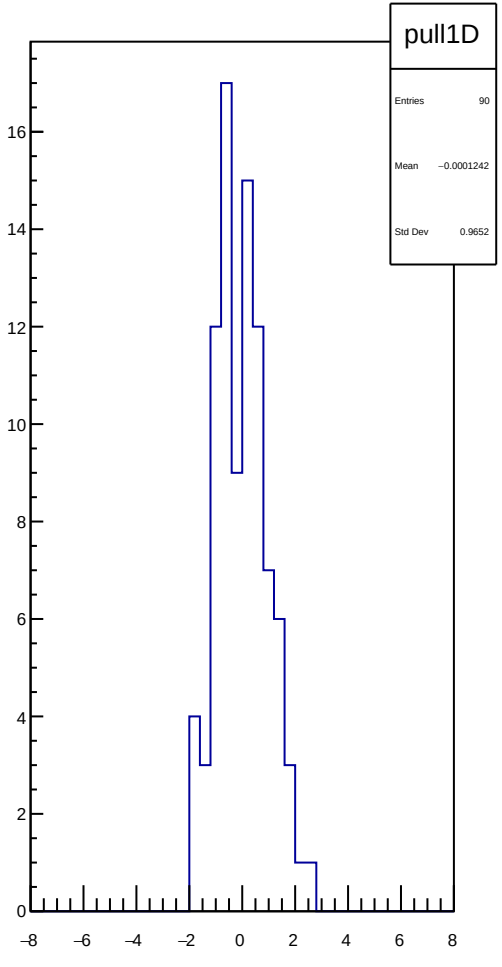

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 139.2 / 89
p0 1182 ± 0.8913
1210
1200
1190
1180
1170
1160
1150
1140
1130

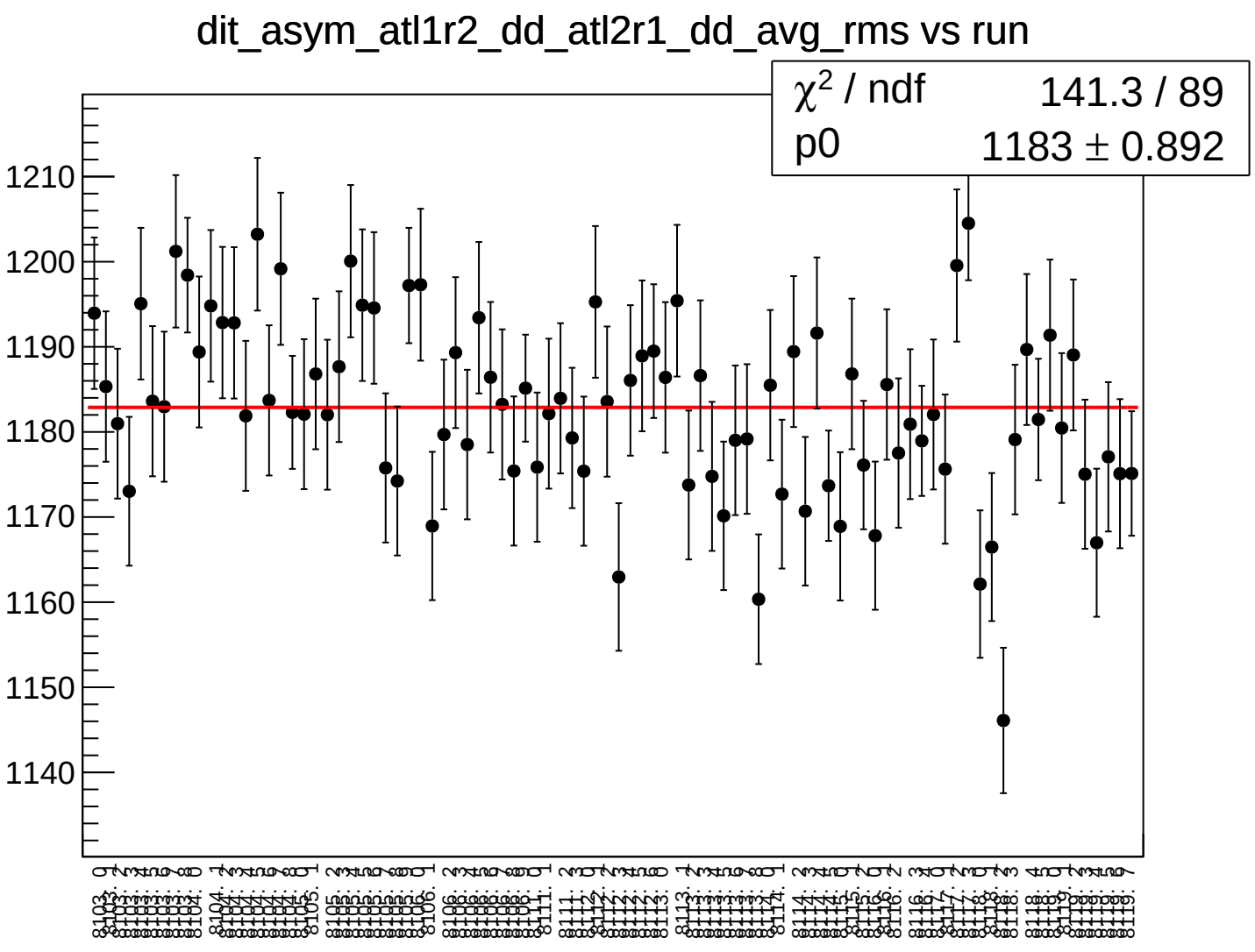

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.6 / 89
p0 −2016 ± 1323
pull
Entries 90
Mean 774.2
Std Dev 0

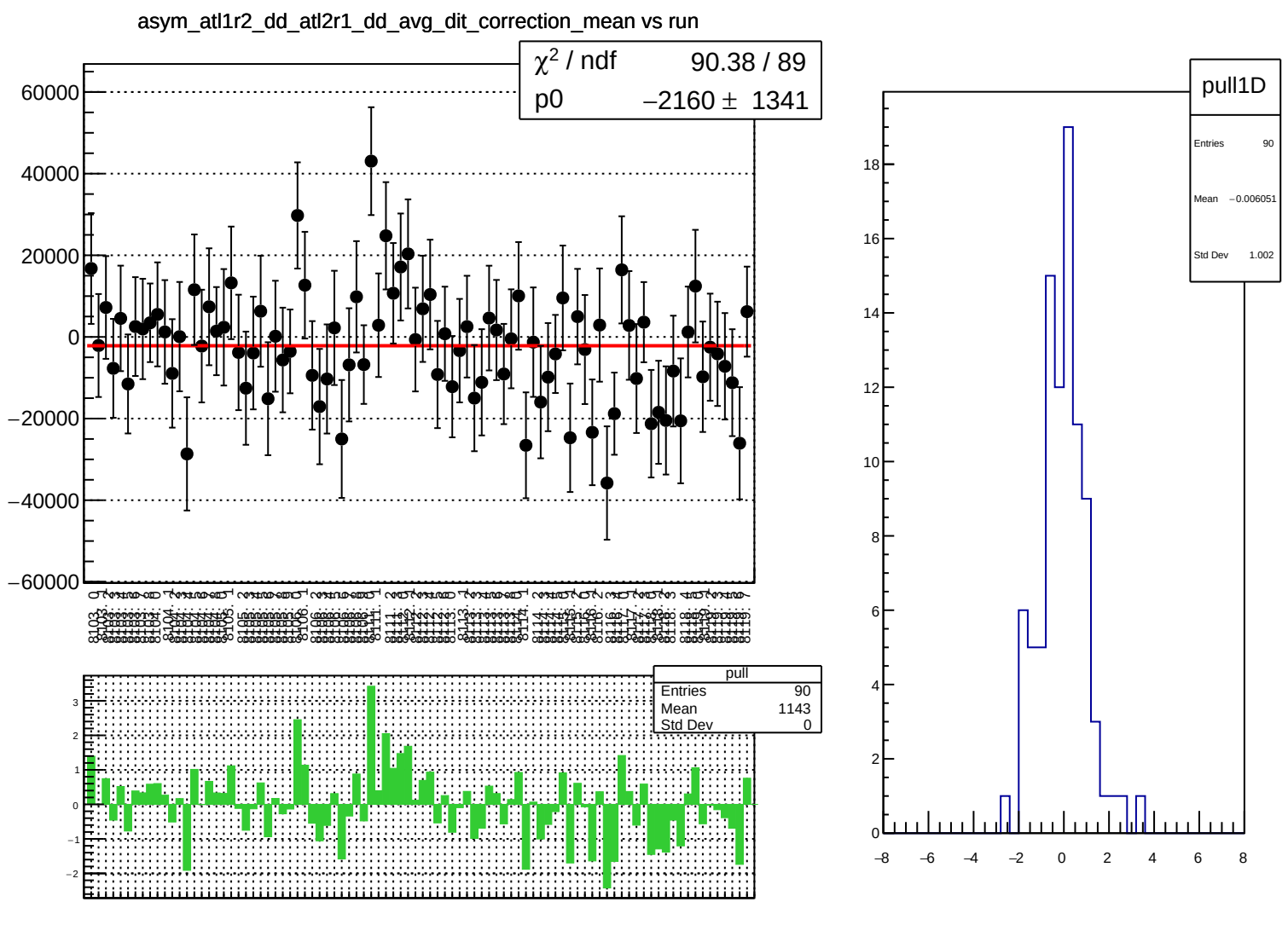

pull1D
Entries 90
Mean −0.0093
Std Dev 1.003

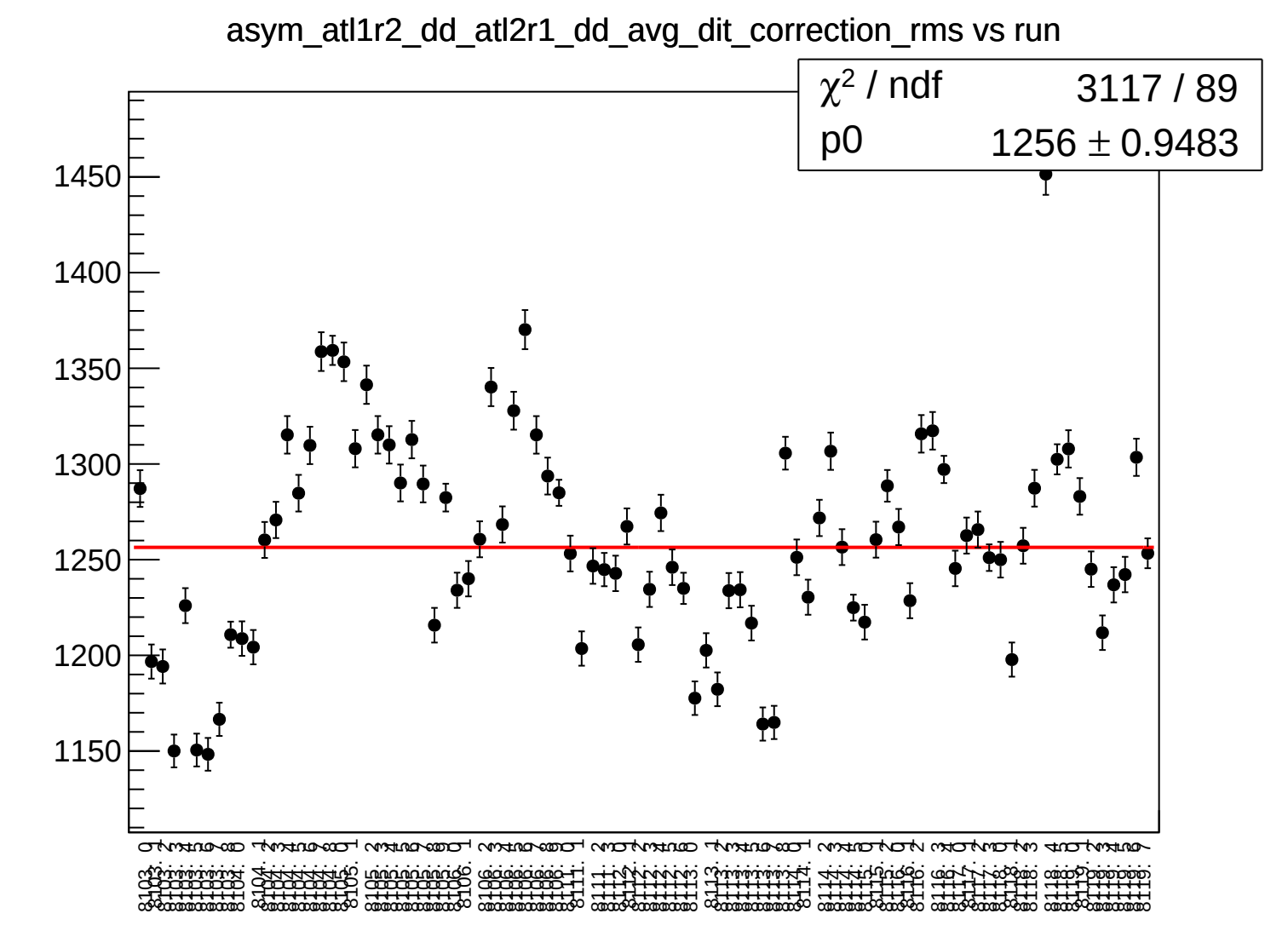

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3740 / 89
p0 1239 ± 0.9354
1500
1450
1400
1350
1300
1250
1200
1150
1100

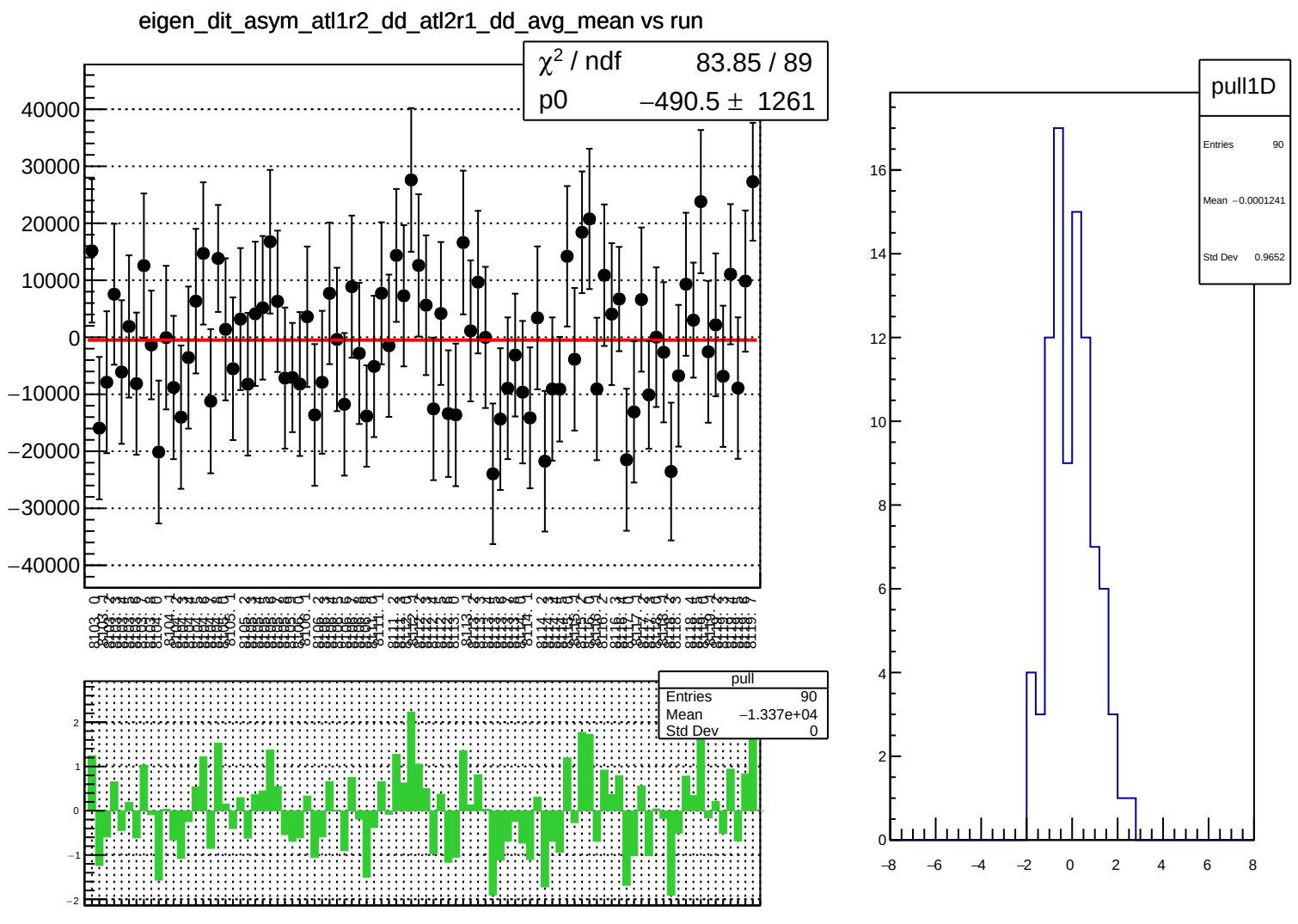

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.85 / 89
p0 −490.5 ± 1261
pull
Entries 90
Mean −1.337e+04
Std Dev 0

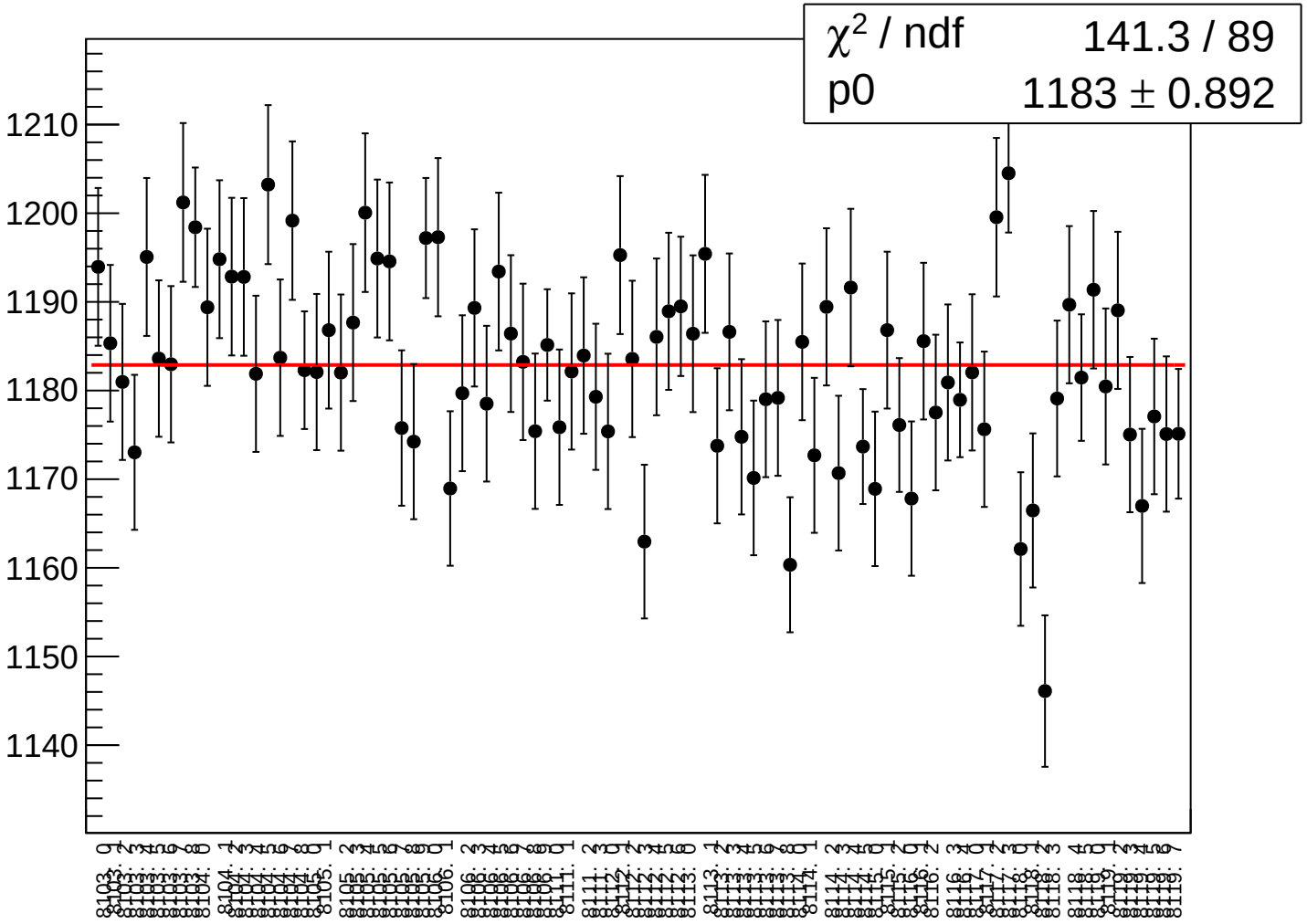

pull1D
Entries 90
Mean −0.0001242
Std Dev 0.9652

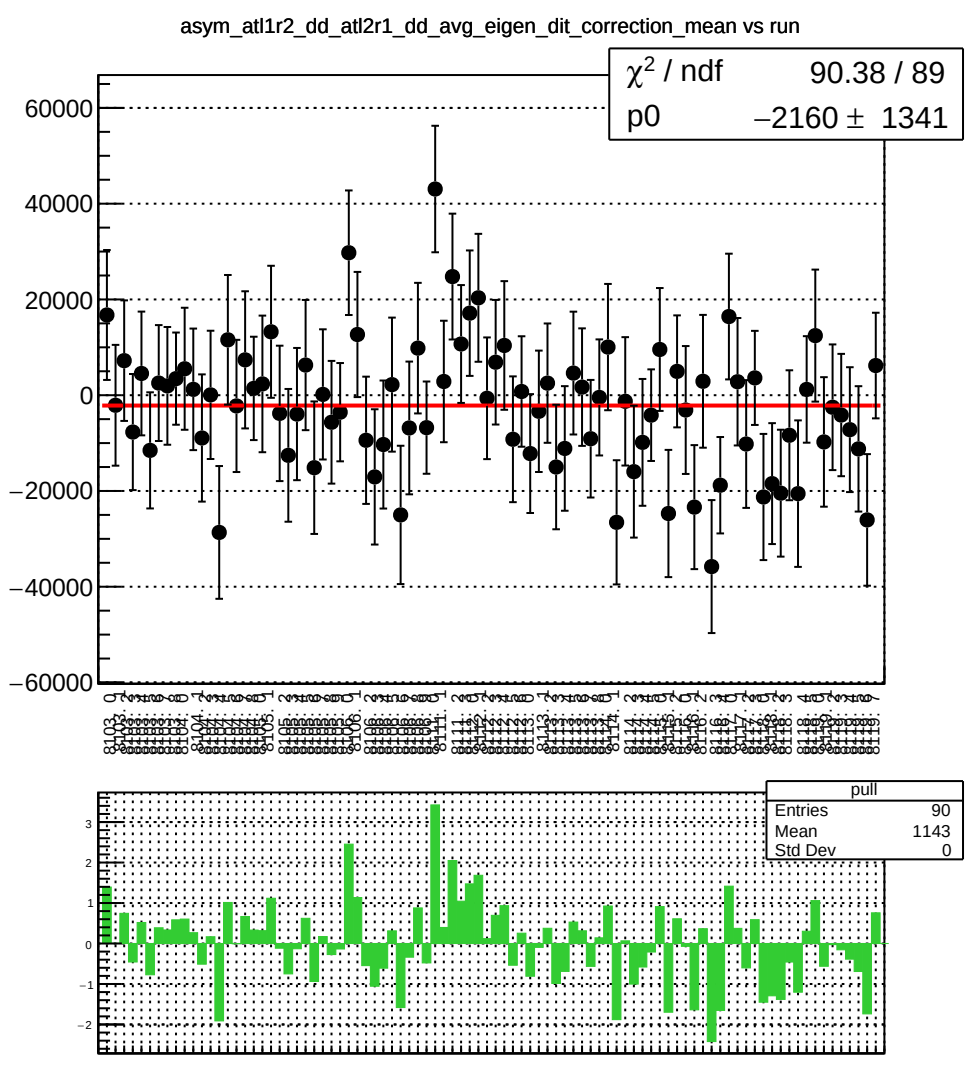

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 141.3 / 89
p0 1183 ± 0.892
1210
1200
1190
1180
1170
1160
1150
1140

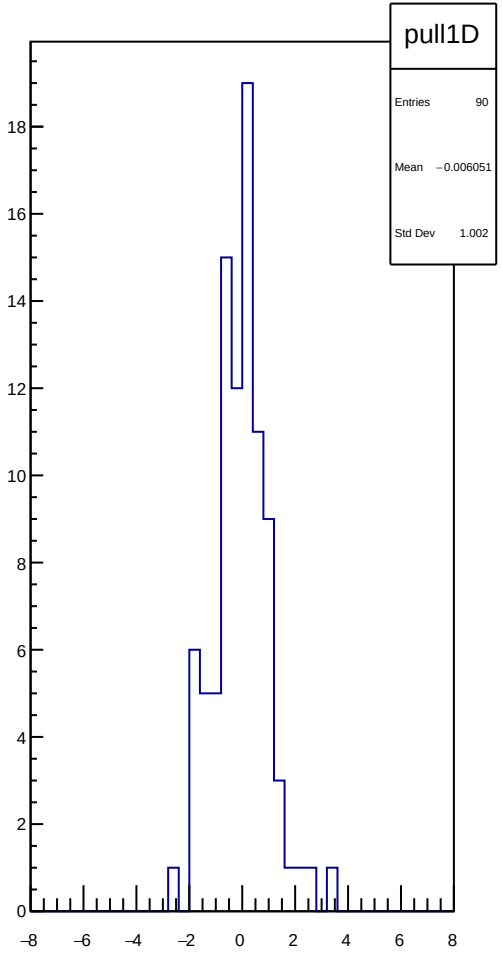

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 90.38 / 89
p0 −2160 ± 1341
pull
Entries 90
Mean 1143
Std Dev 0
pull1D
Entries 90
Mean −0.006051
Std Dev 1.002

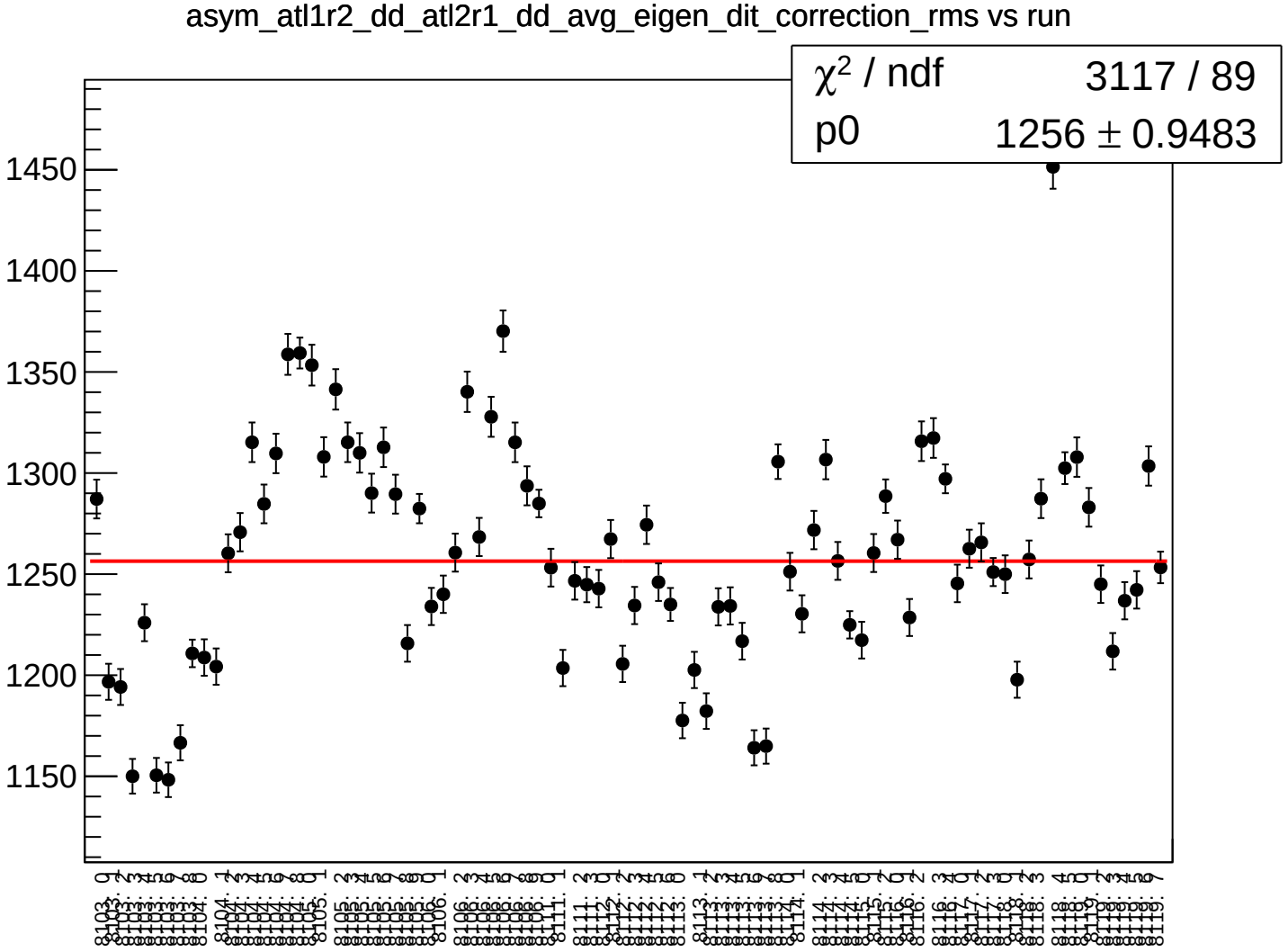

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3117 / 89
p0 1256 ± 0.9483
1450
1400
1350
1300
1250
1200
1150

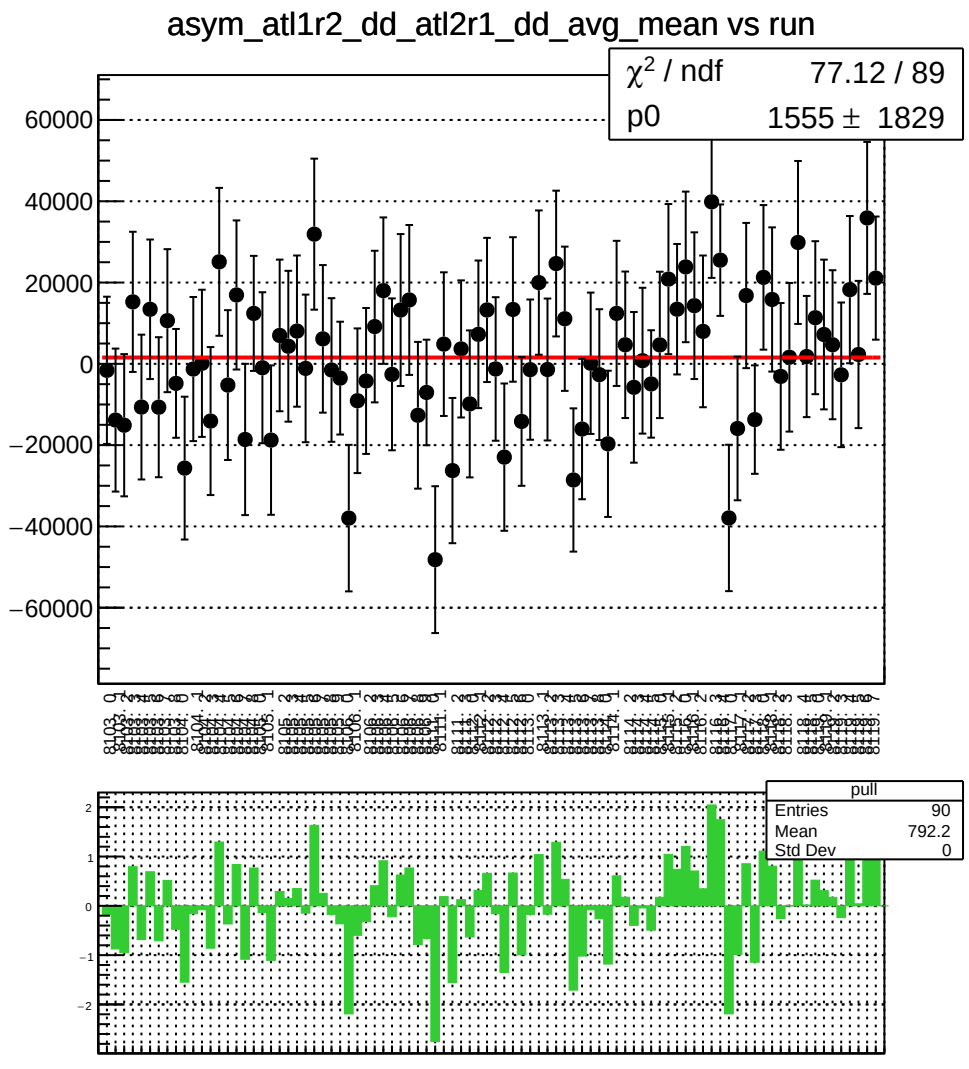

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.85 / 89
p0 −490.5 ± 1261
pull
Entries 90
Mean −1.337e+04
Std Dev 0
pull1D
Entries 90
Mean −0.0001241
Std Dev 0.9652

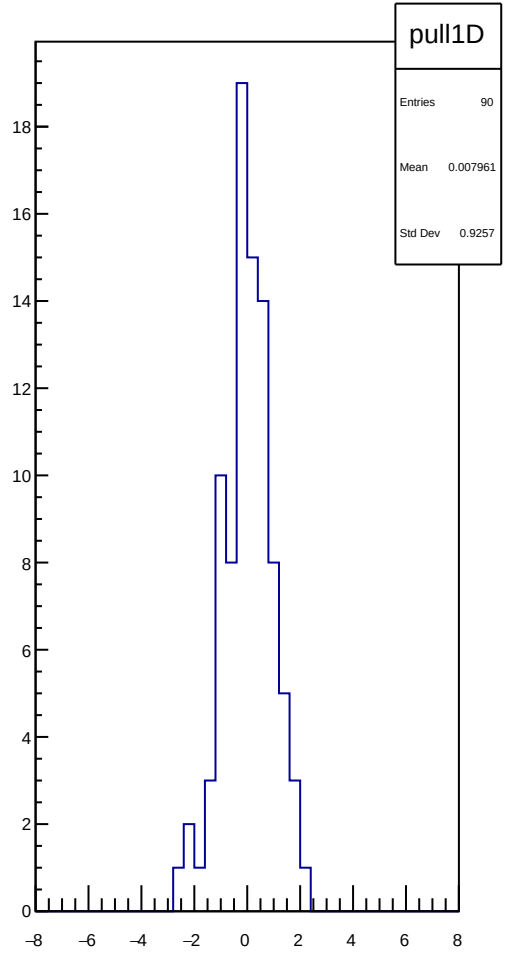

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 141.3 / 89
p0 1183 ± 0.892
1210
1200
1190
1180
1170
1160
1150
1140

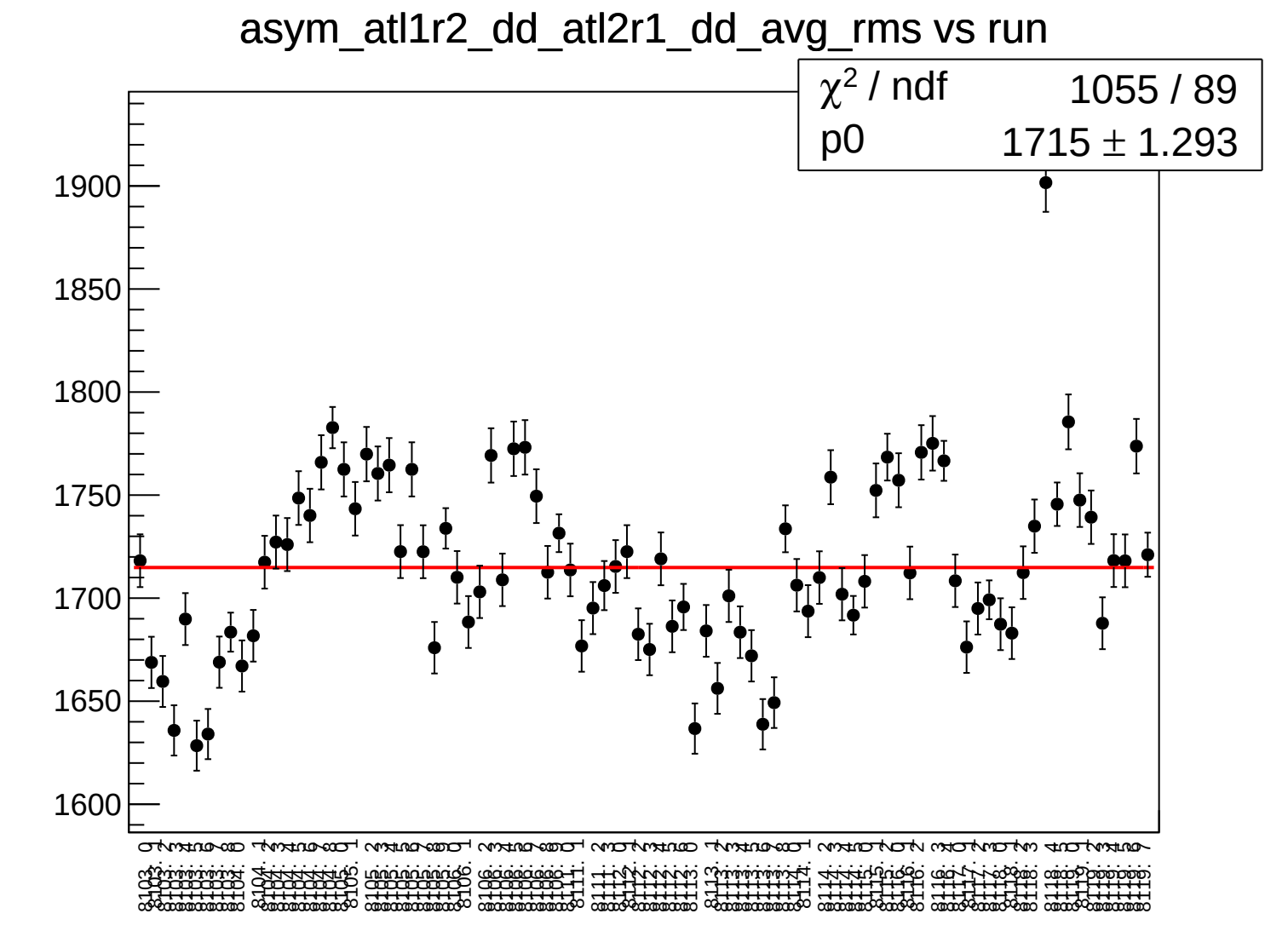

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.38 / 89
p0 −2160 ± 1341
pull
Entries 90
Mean 1143
Std Dev 0

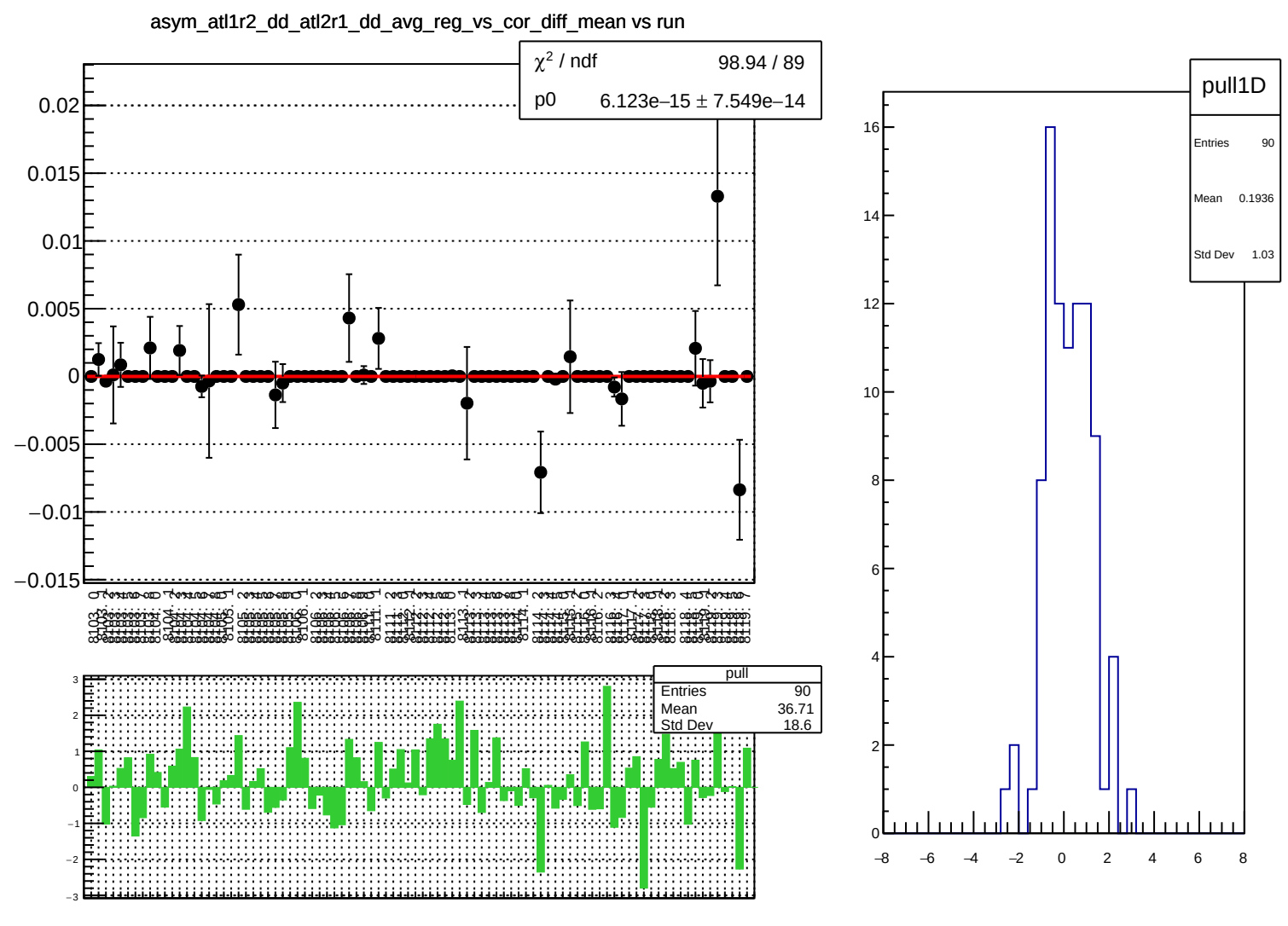

pull1D
Entries 90
Mean −0.006051
Std Dev 1.002

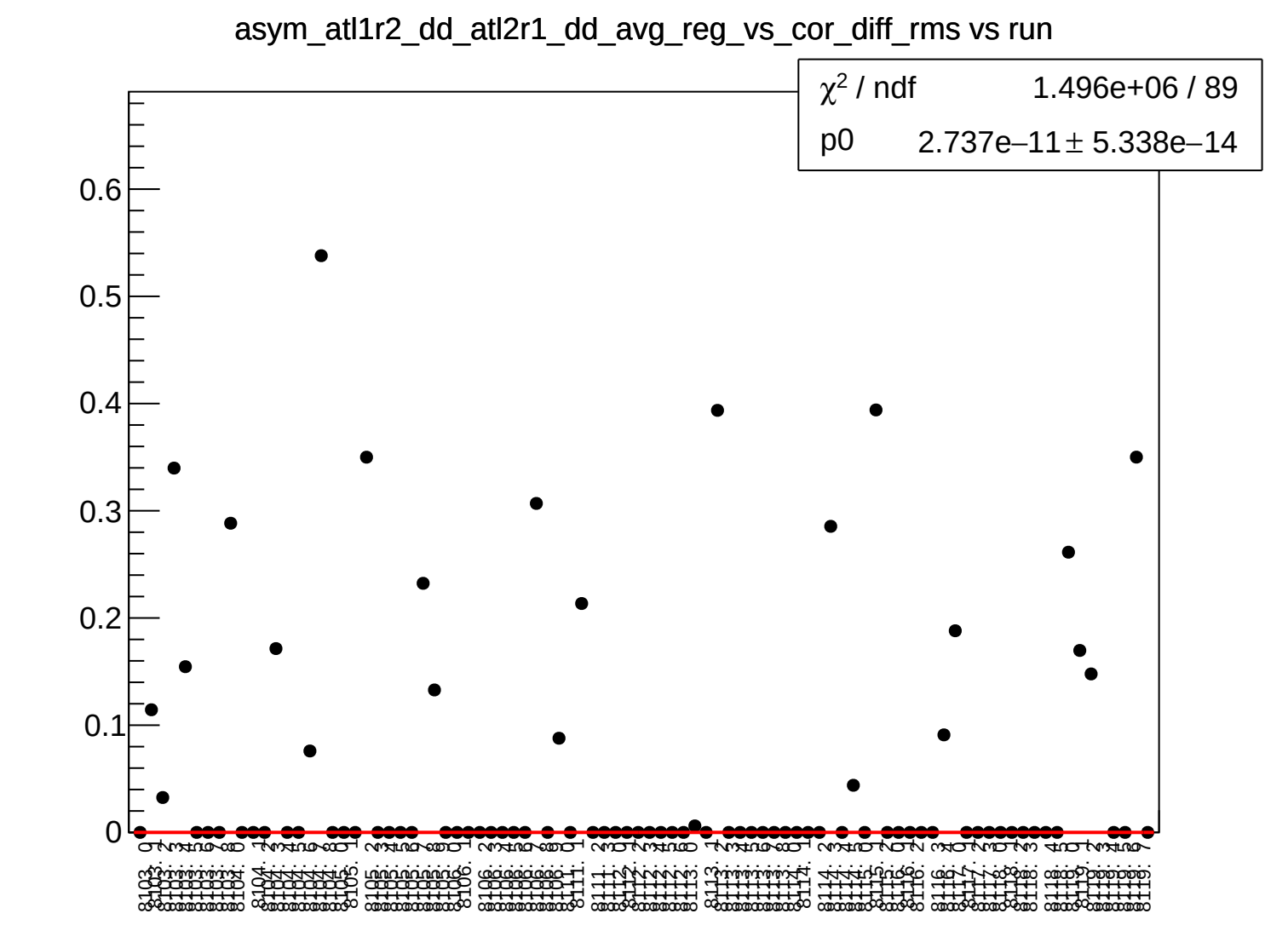

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3117 / 89
p0 1256 ± 0.9483
1450
1400
1350
1300
1250
1200
1150

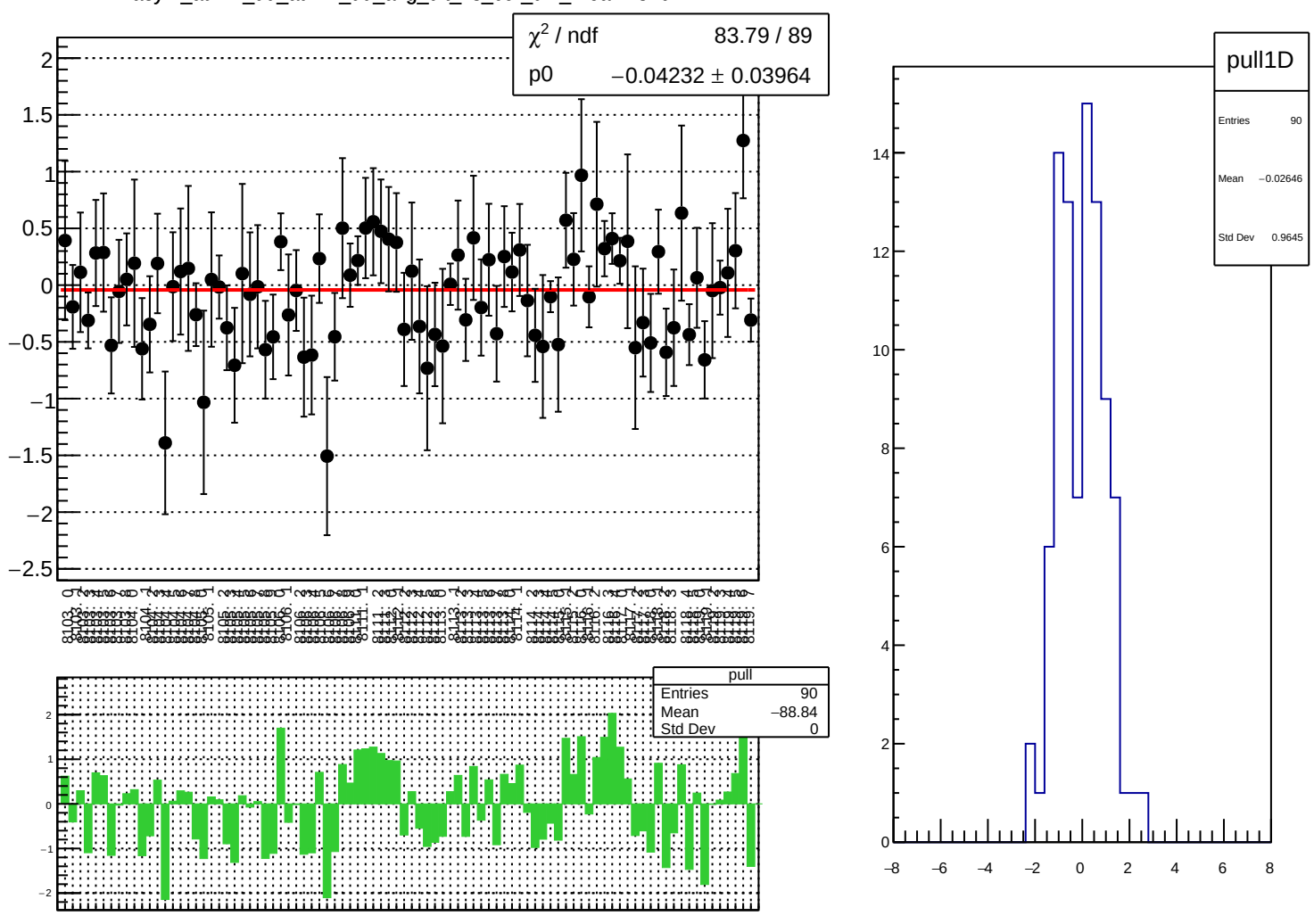

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.12 / 89
p0 1555 ± 1829
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 792.2
Std Dev 0
2
1
0
−1
−2

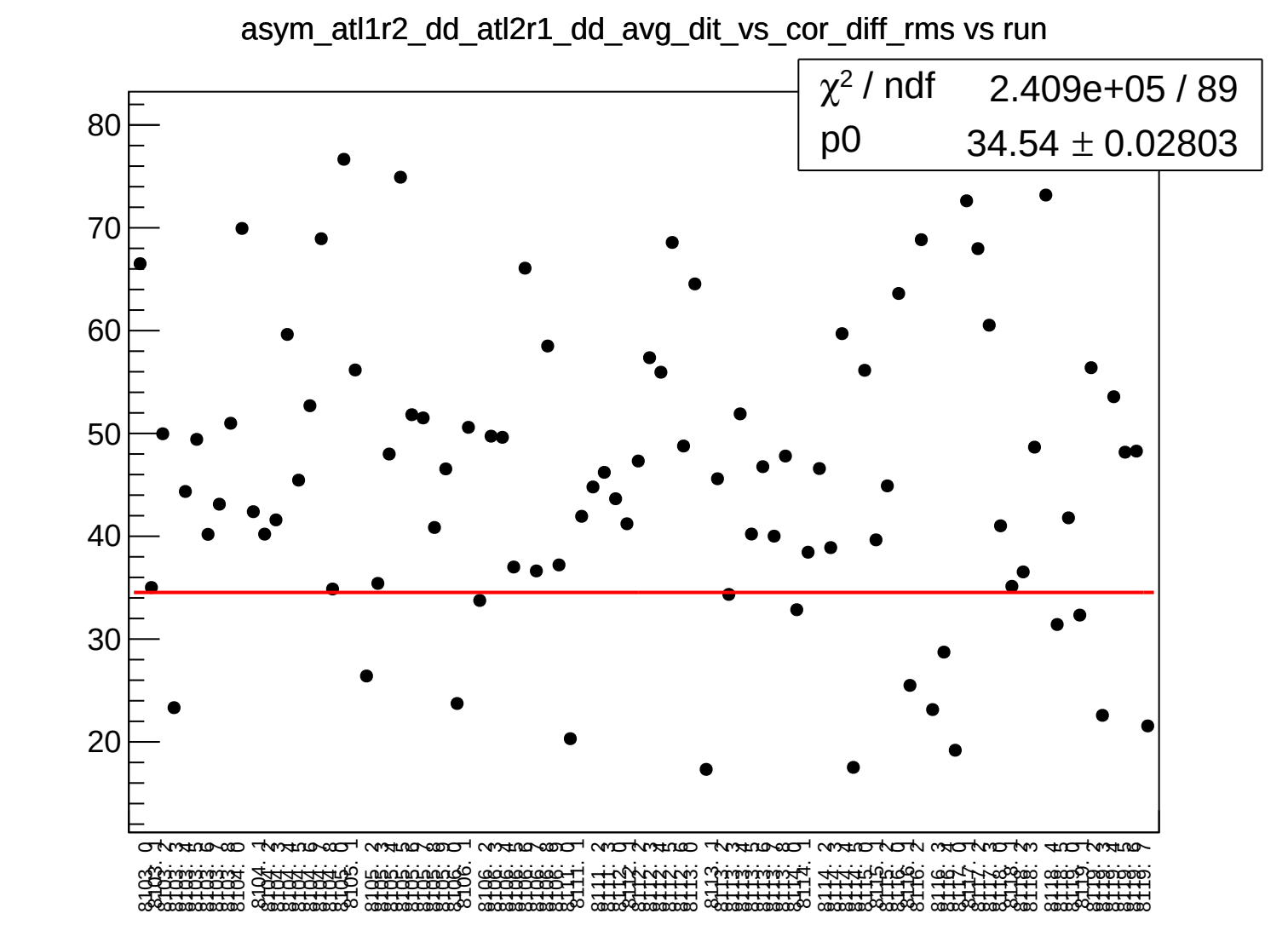

pull1D
Entries 90
Mean 0.007961
Std Dev 0.9257
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

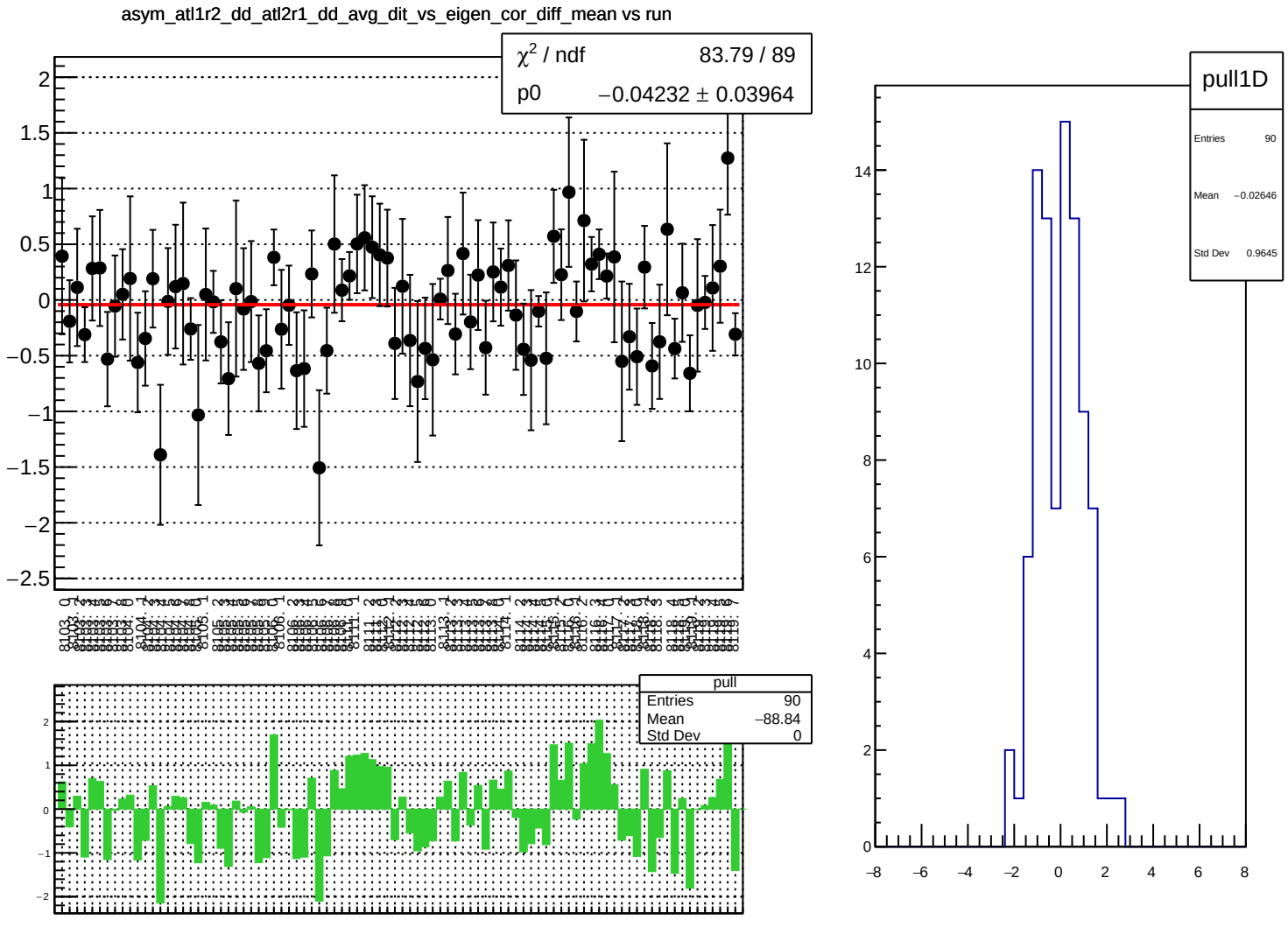

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1055 / 89
p0 1715 ± 1.293
1900
1850
1800
1750
1700
1650
1600

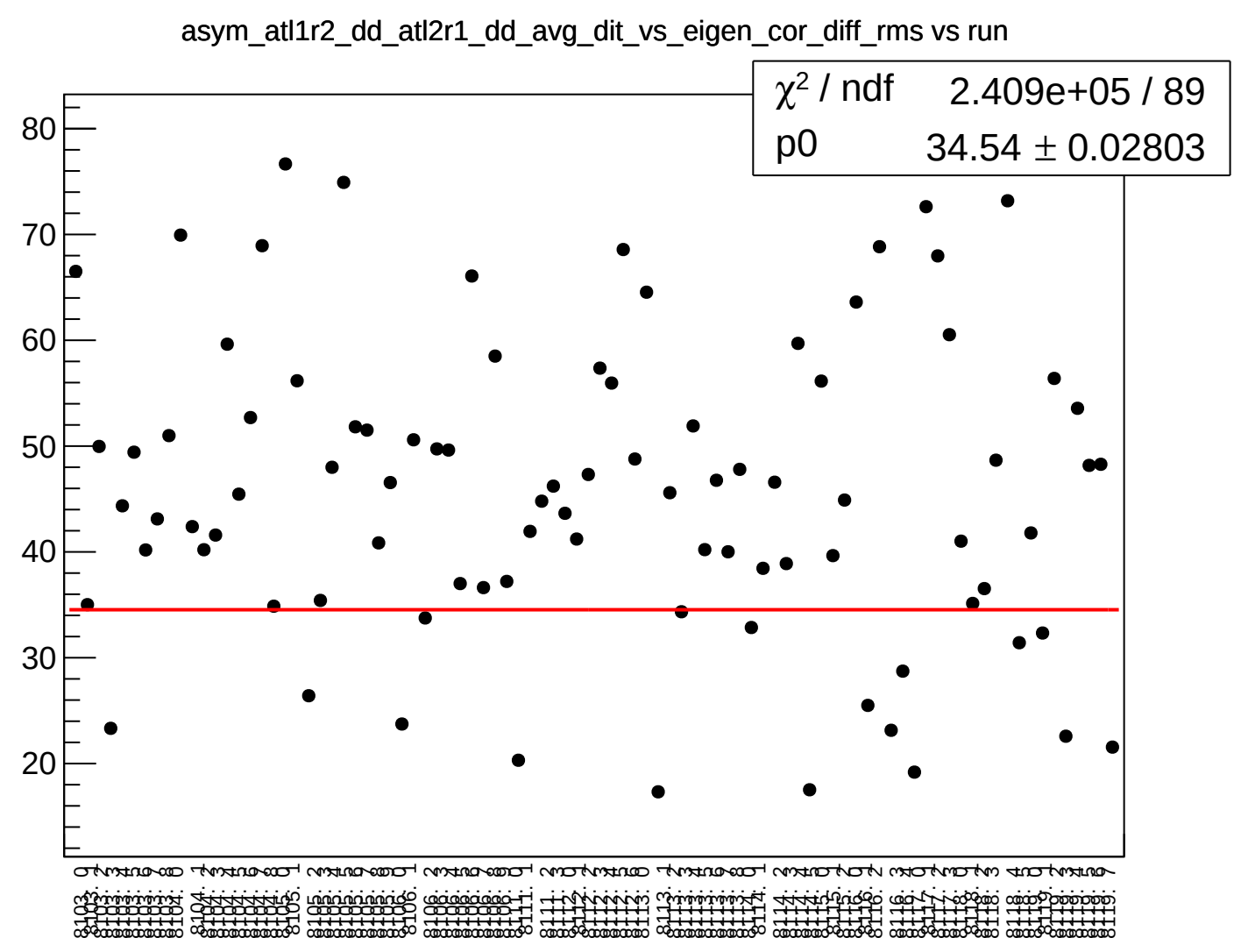

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.94 / 89
p0 6.123e−15 ± 7.549e−14
pull
Entries 90
Mean 36.71
Std Dev 18.6
pull1D
Entries 90
Mean 0.1936
Std Dev 1.03

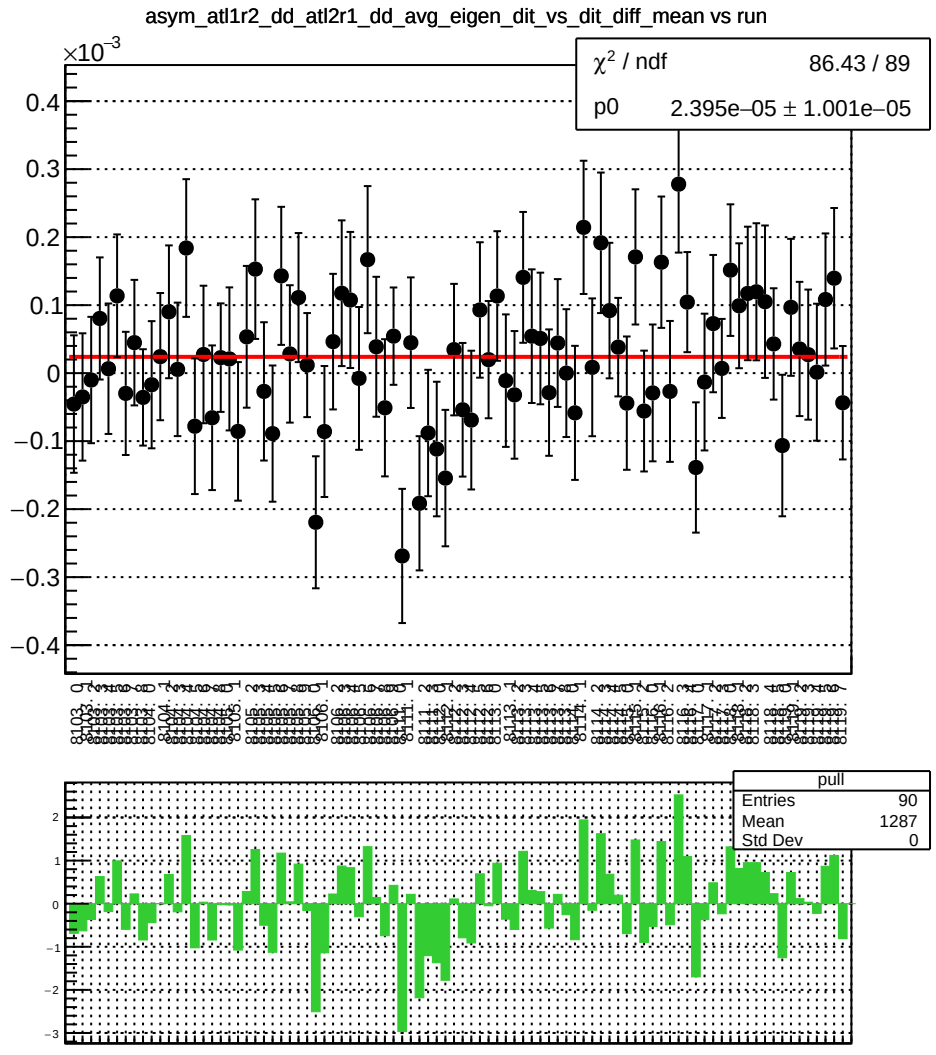

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.496e+06 / 89
p0 2.737e−11 ± 5.338e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

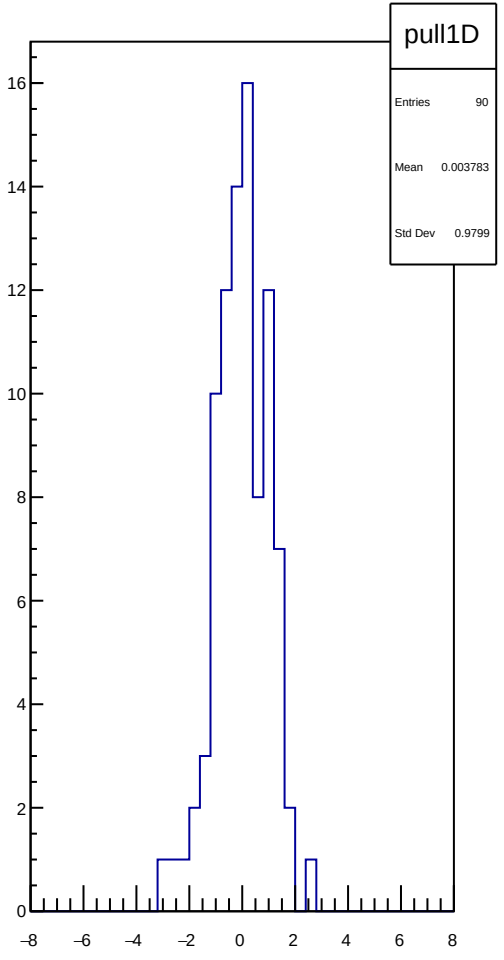

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.79 / 89
p0 −0.04232 ± 0.03964
pull
Entries 90
Mean −88.84
Std Dev 0
pull1D
Entries 90
Mean −0.02646
Std Dev 0.9645

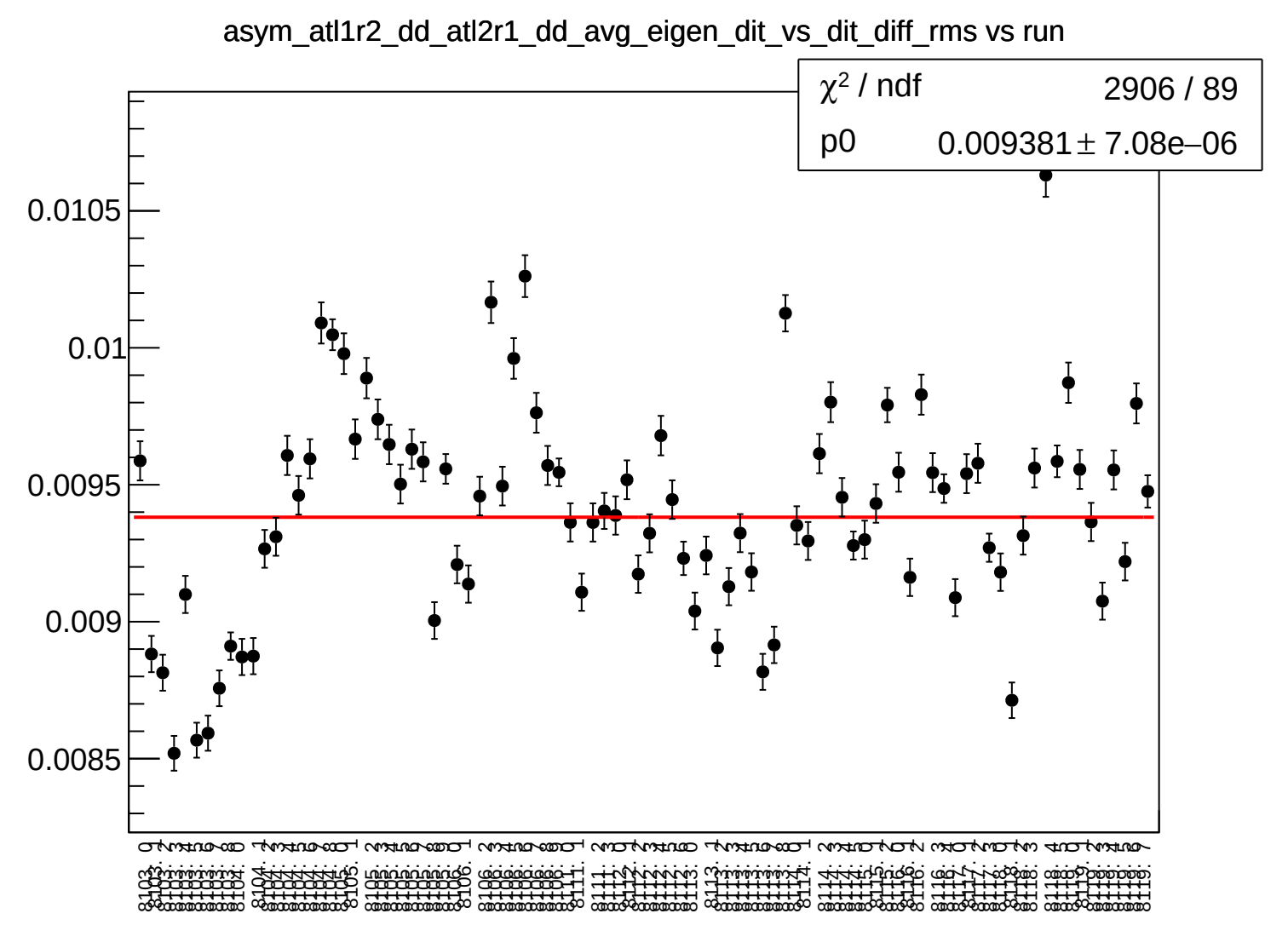

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.409e+05 / 89
p0 34.54 ± 0.02803
80
70
60
50
40
30
20

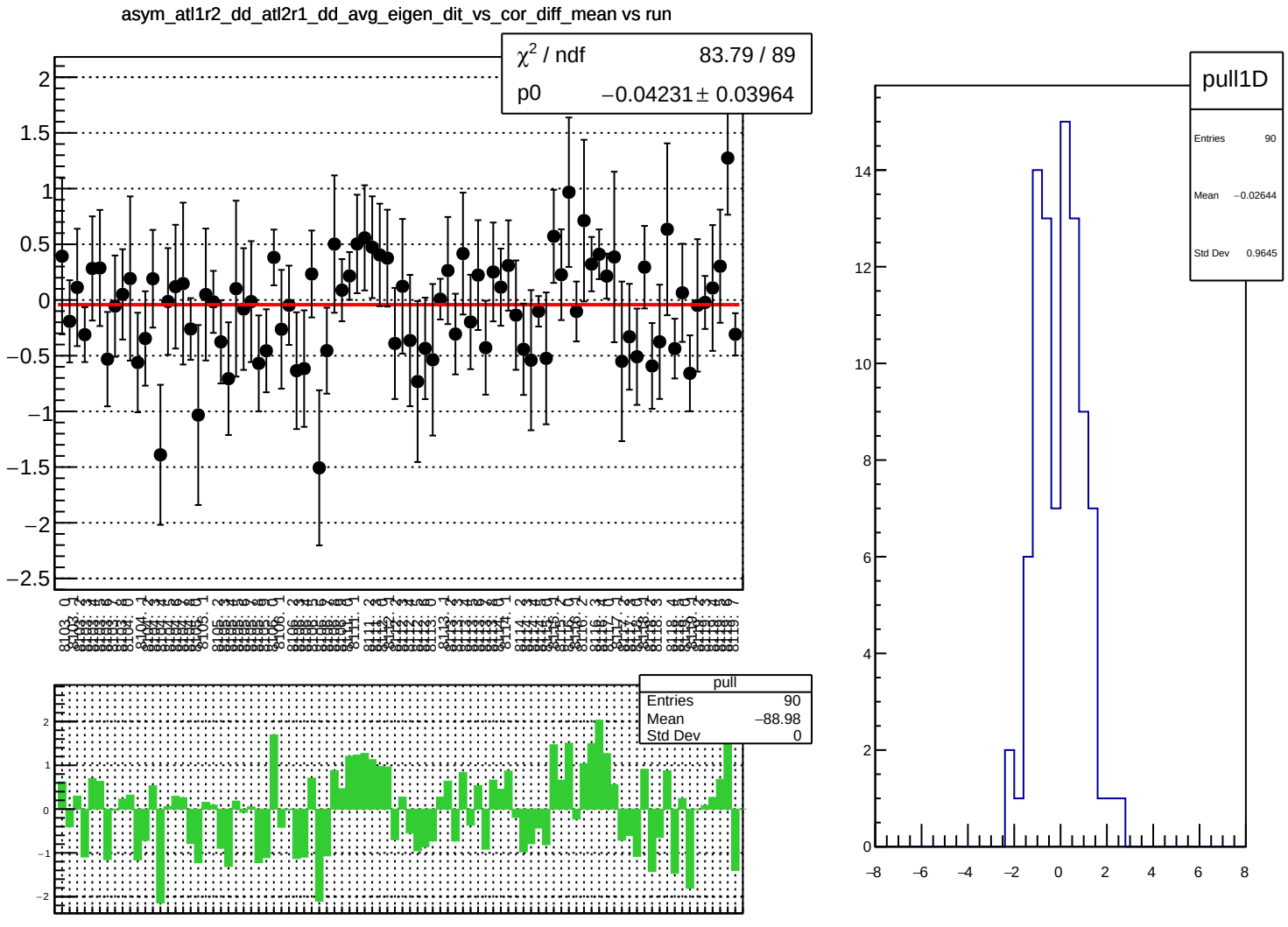

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.79 / 89
p0 −0.04232 ± 0.03964
pull
Entries 90
Mean −88.84
Std Dev 0
pull1D
Entries 90
Mean −0.02646
Std Dev 0.9645

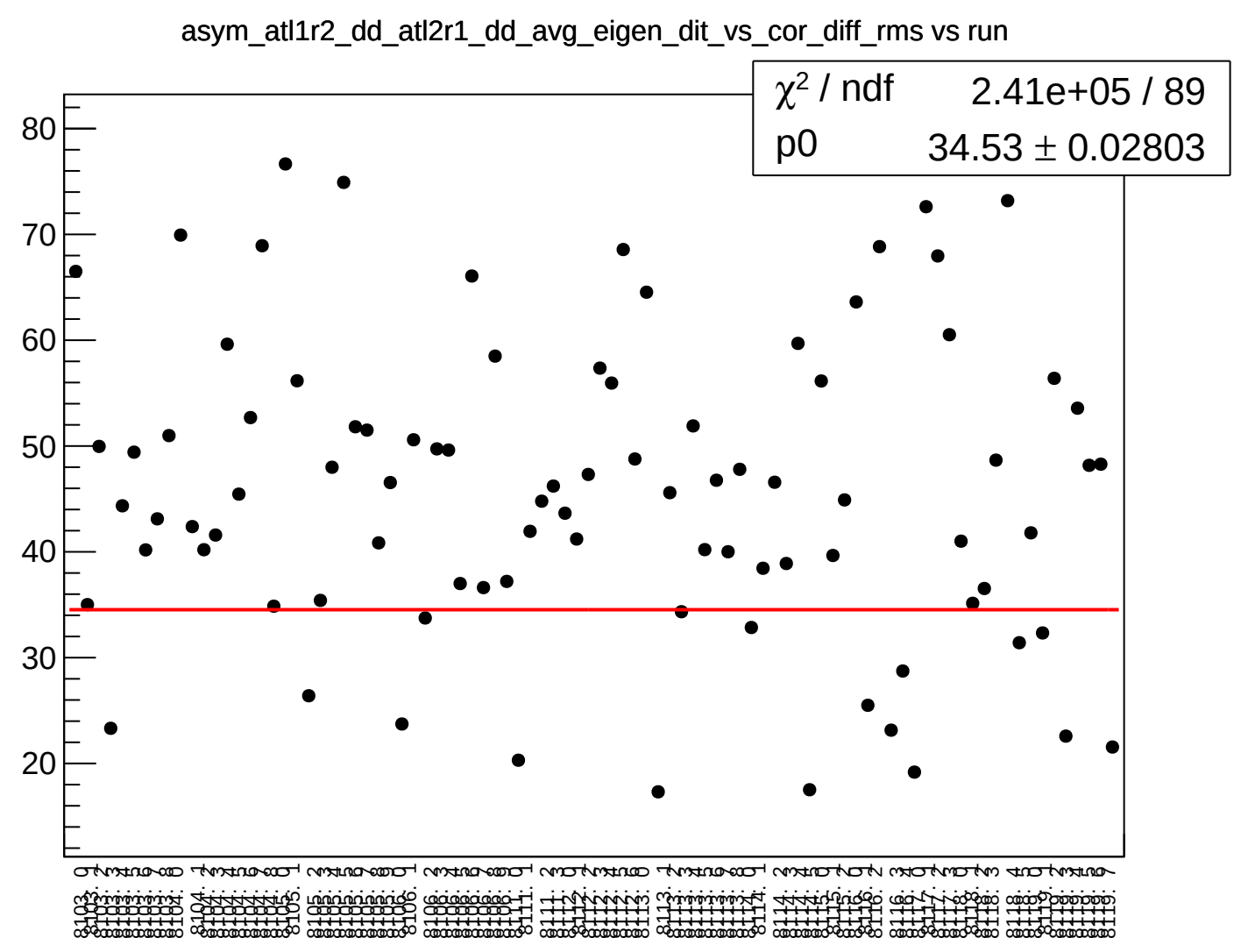

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.409e+05 / 89
p0 34.54 ± 0.02803
80
70
60
50
40
30
20

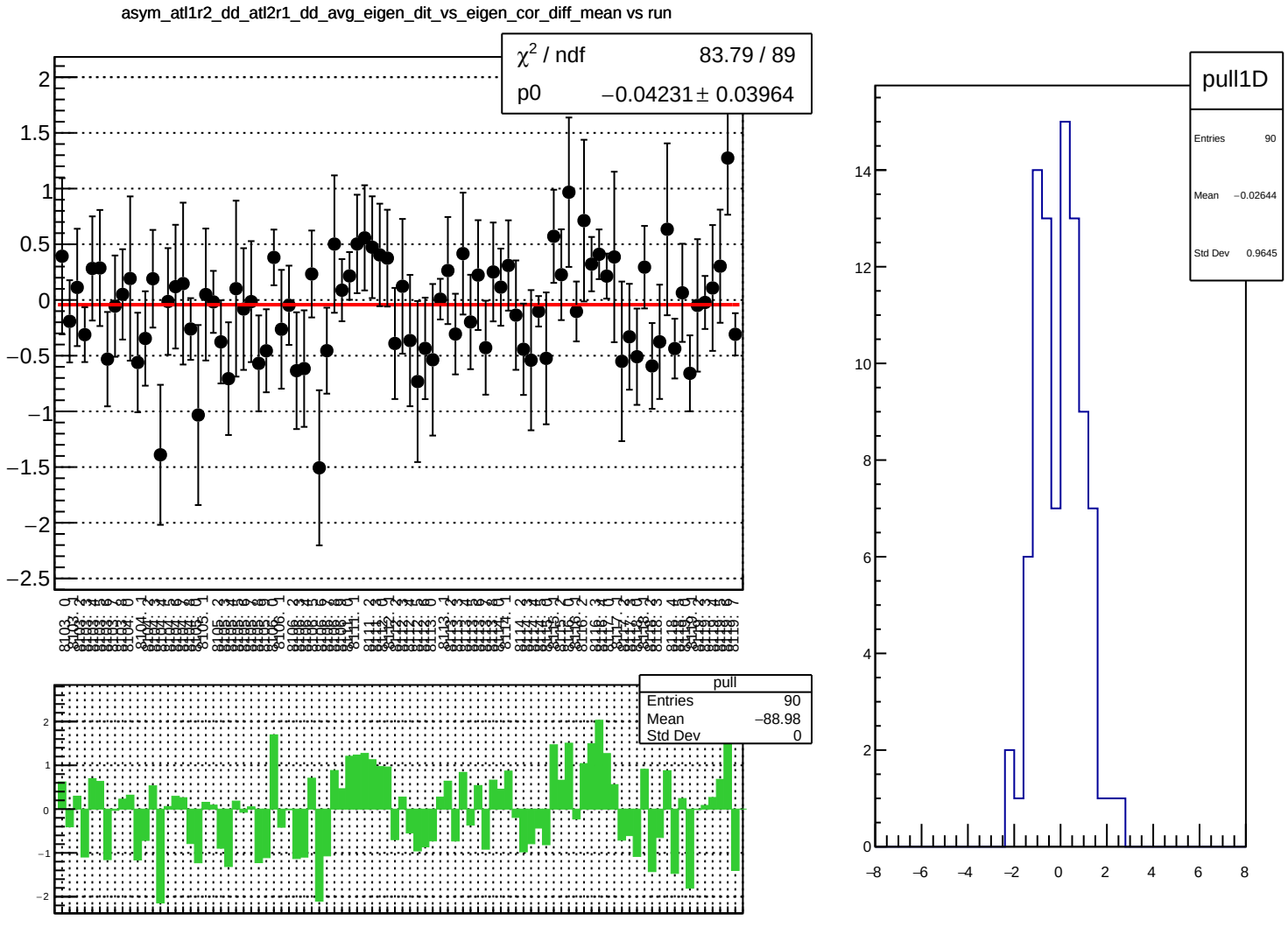

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.43 / 89
p0 2.395e−05 ± 1.001e−05
pull
Entries 90
Mean 1287
Std Dev 0

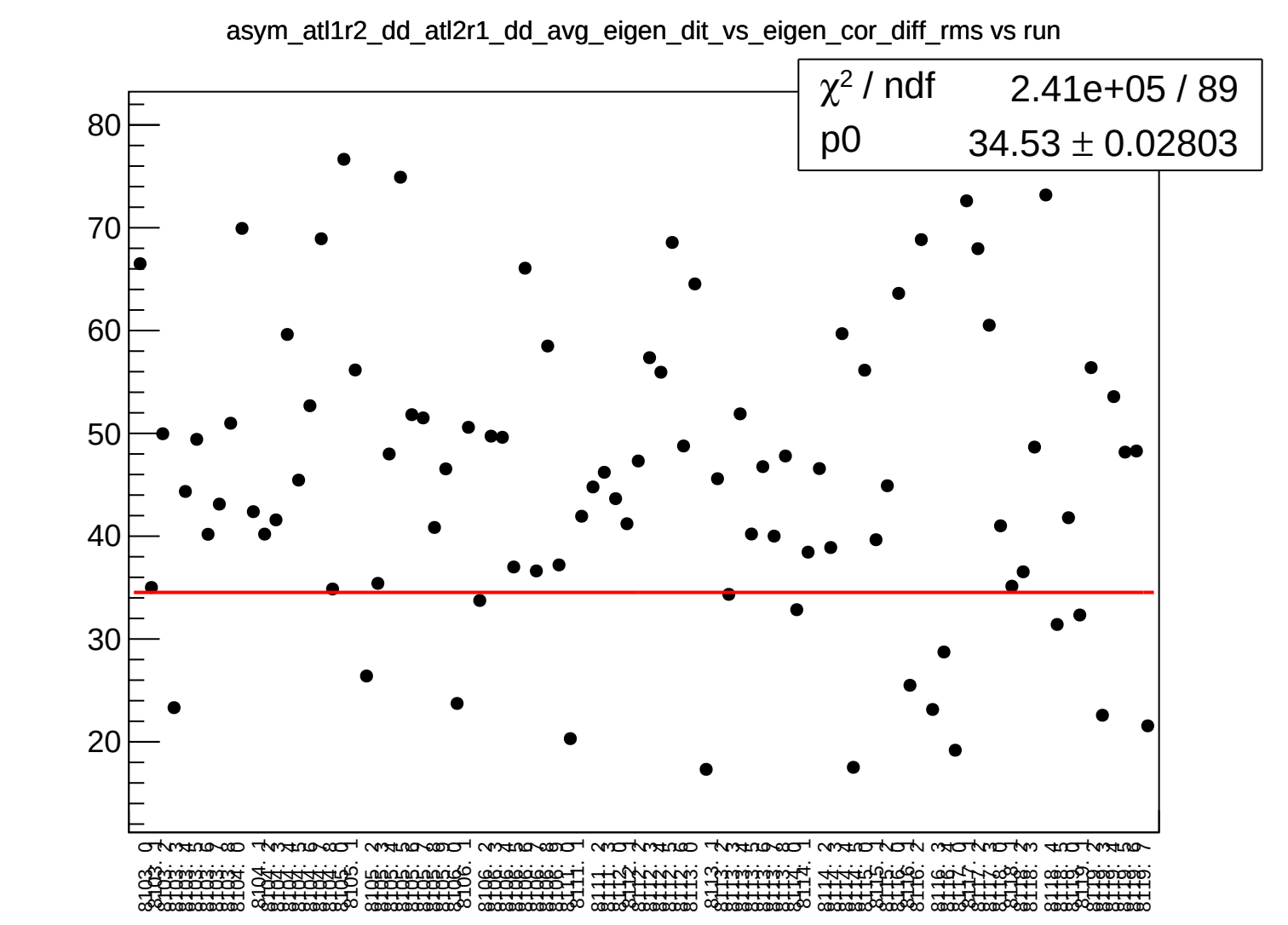

pull1D
Entries 90
Mean 0.003783
Std Dev 0.9799

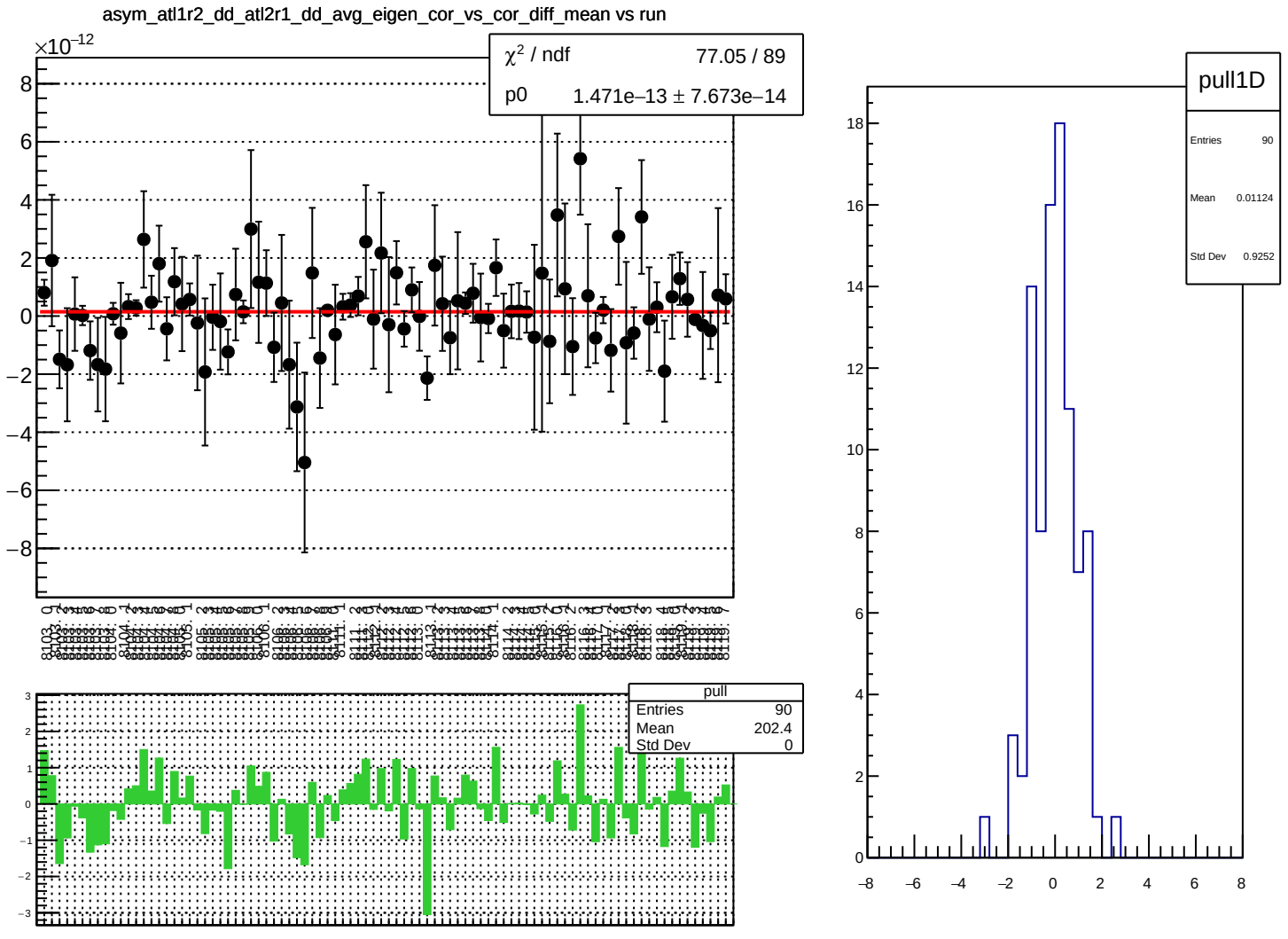

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2906 / 89
p0 0.009381 ± 7.08e–06
0.0105
0.01
0.0095
0.009
0.0085

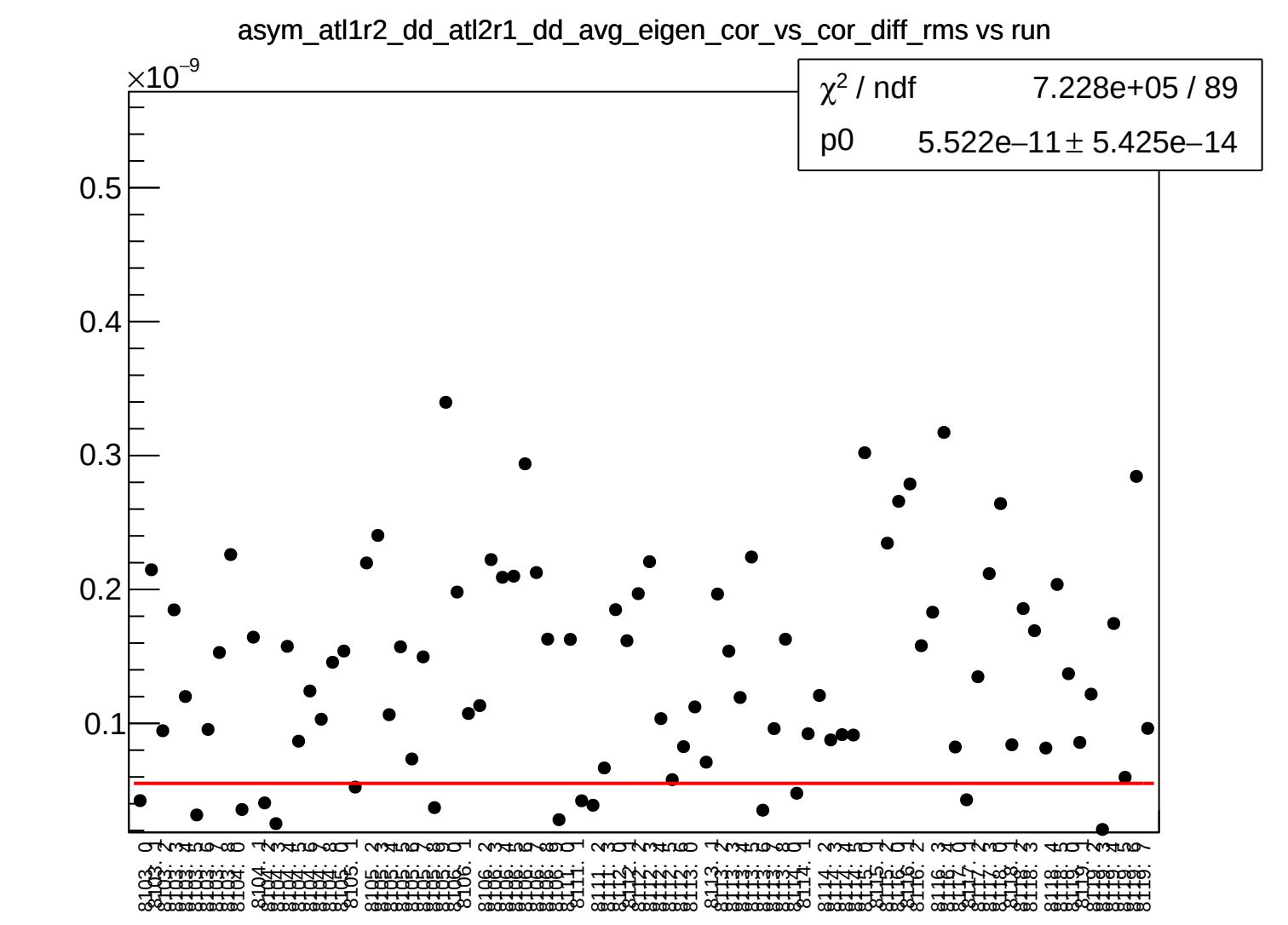

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.79 / 89
p0 −0.04231 ± 0.03964
pull
Entries 90
Mean −88.98
Std Dev 0
pull1D
Entries 90
Mean −0.02644
Std Dev 0.9645

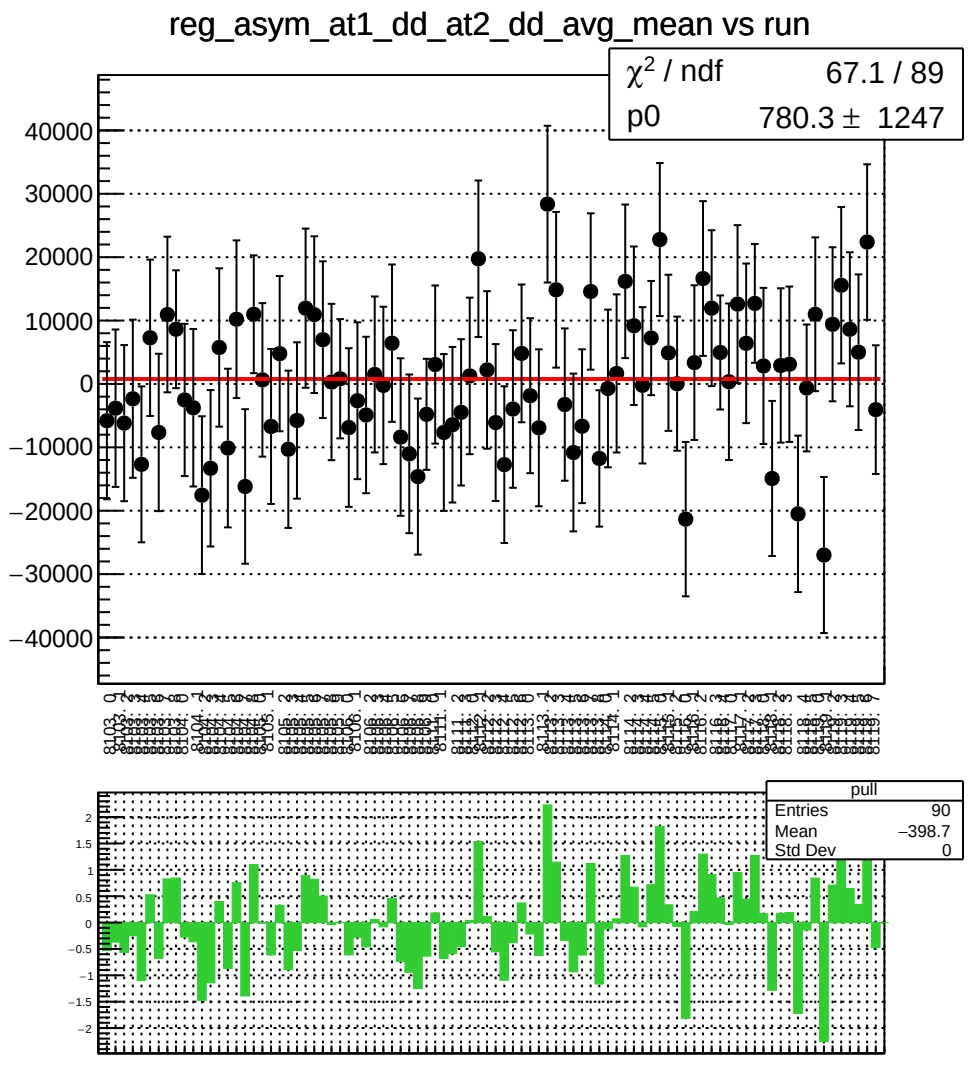

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.41e+05 / 89
p0 34.53 ± 0.02803
80
70
60
50
40
30
20

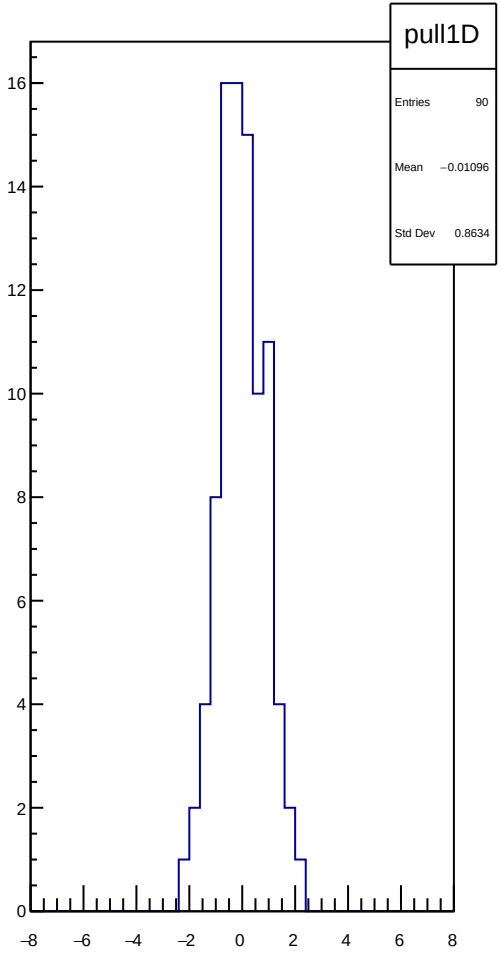

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.79 / 89
p0 −0.04231 ± 0.03964
pull
Entries 90
Mean −88.98
Std Dev 0
pull1D
Entries 90
Mean −0.02644
Std Dev 0.9645

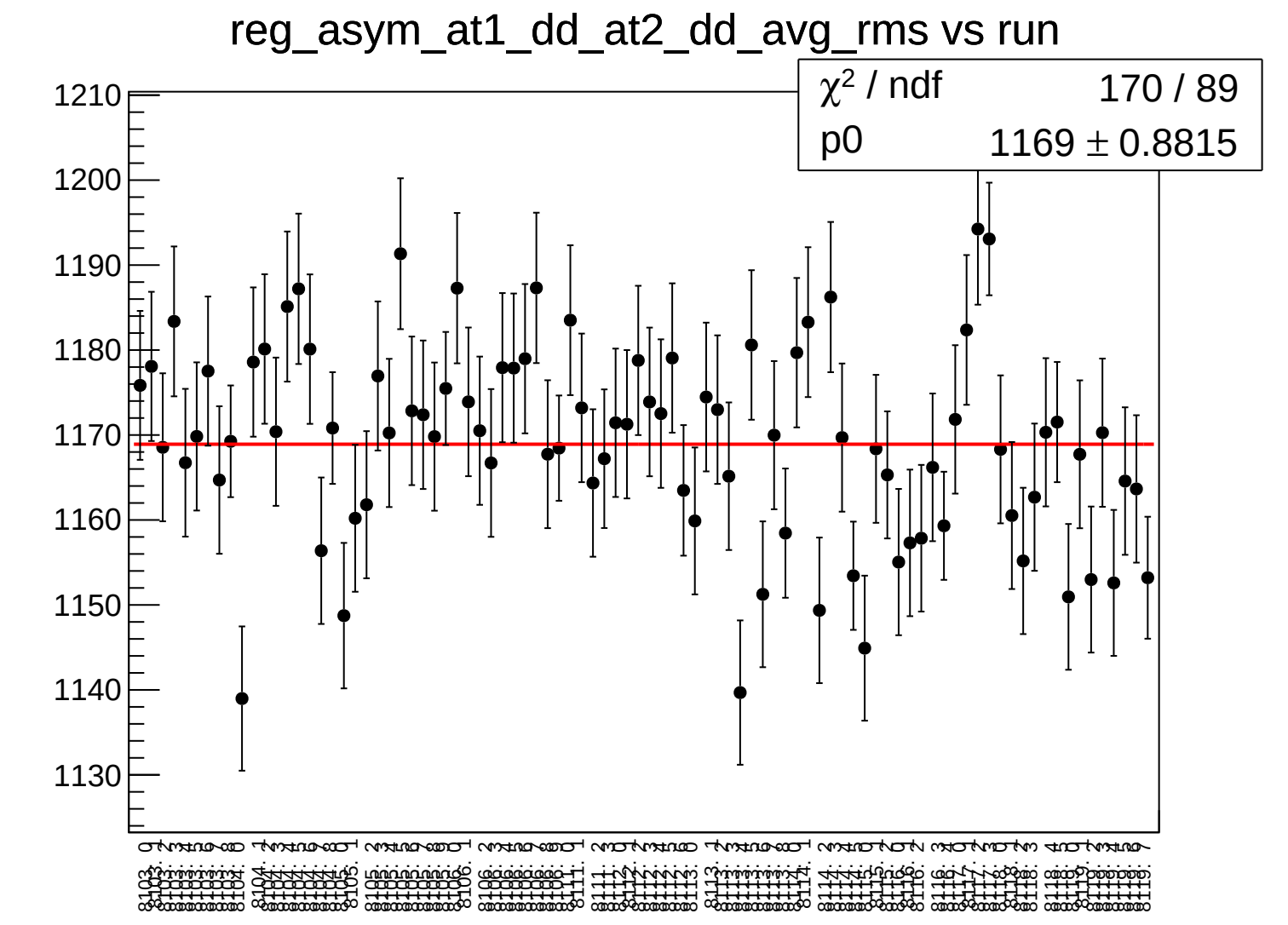

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.41e+05 / 89
p0 34.53 ± 0.02803
80
70
60
50
40
30
20

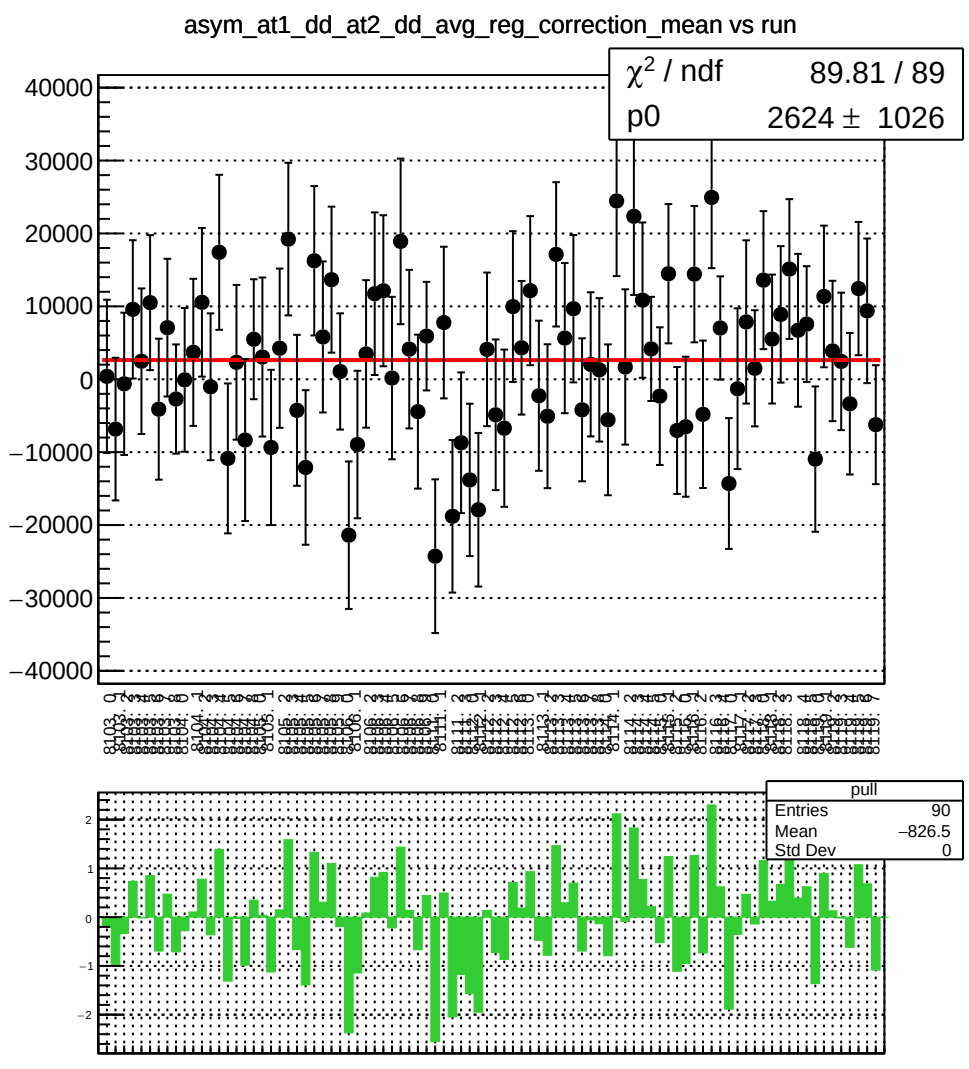

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.05 / 89
p0 1.471e−13 ± 7.673e−14
pull
Entries 90
Mean 202.4
Std Dev 0
pull1D
Entries 90
Mean 0.01124
Std Dev 0.9252

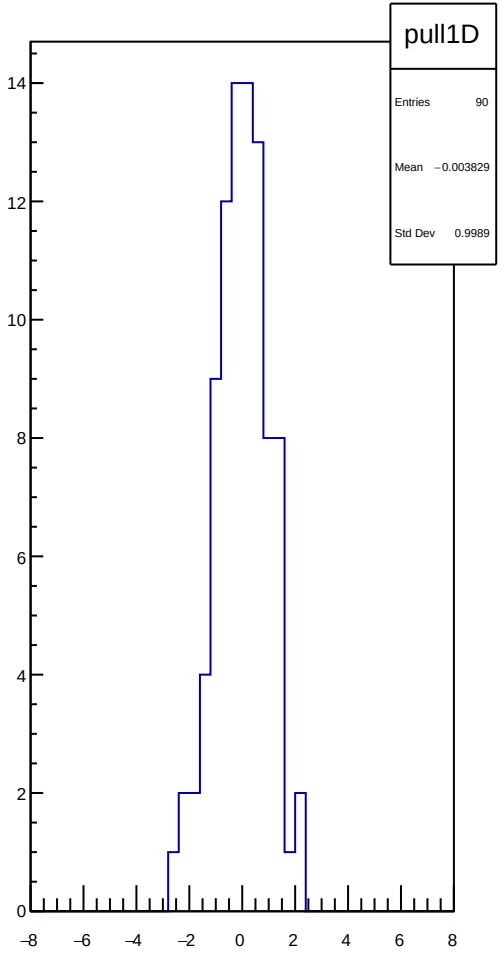

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.228e+05 / 89
p0 5.522e−11 ± 5.425e−14
0.5
0.4
0.3
0.2
0.1

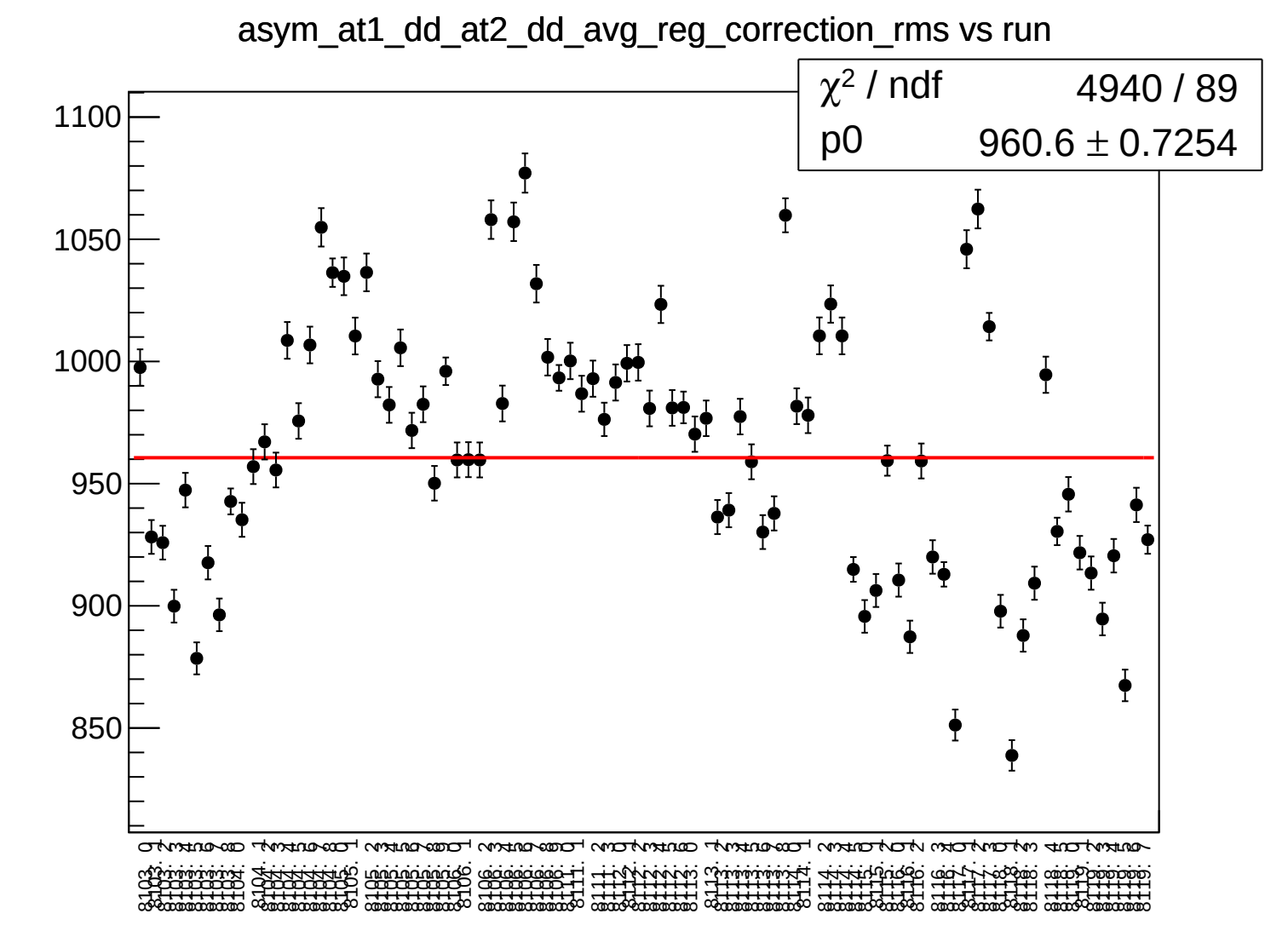

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 67.1 / 89
p0 780.3 ± 1247
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −398.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

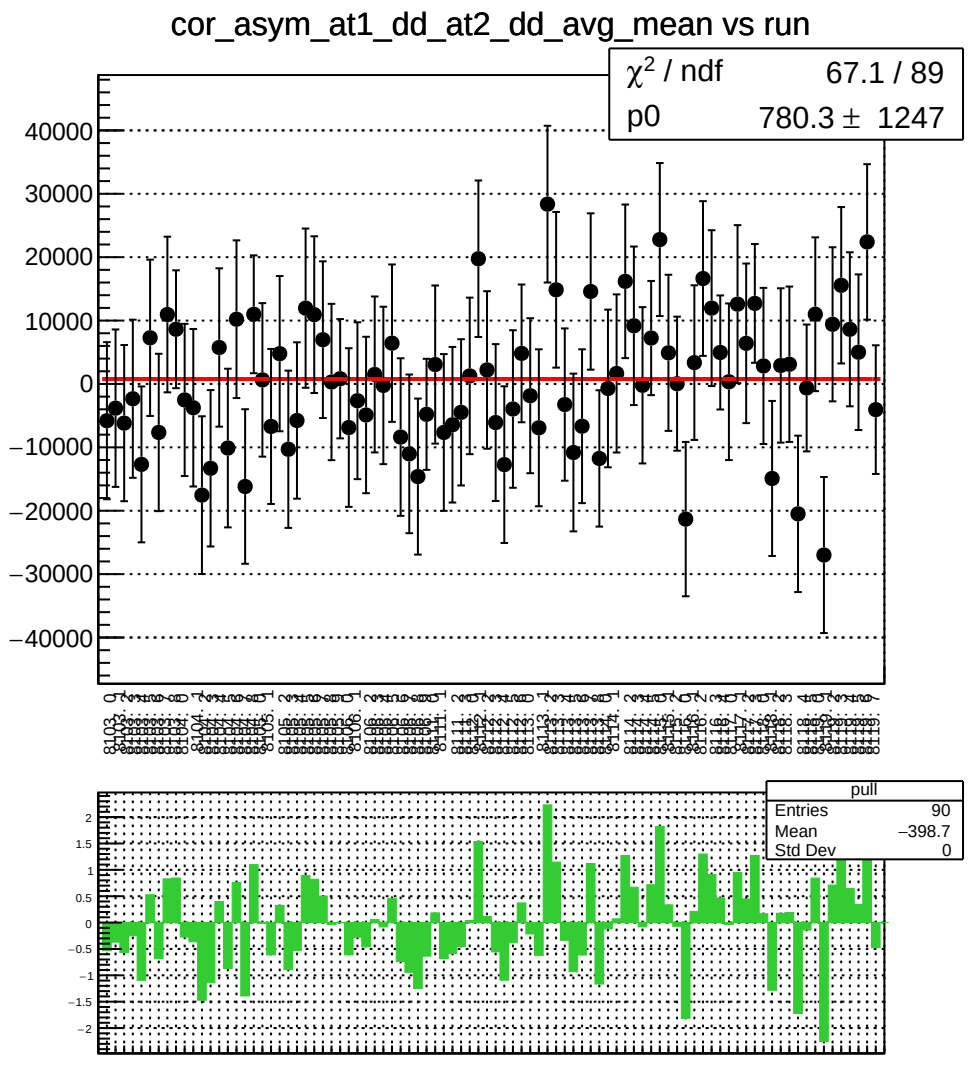

pull1D
Entries 90
Mean −0.01096
Std Dev 0.8634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

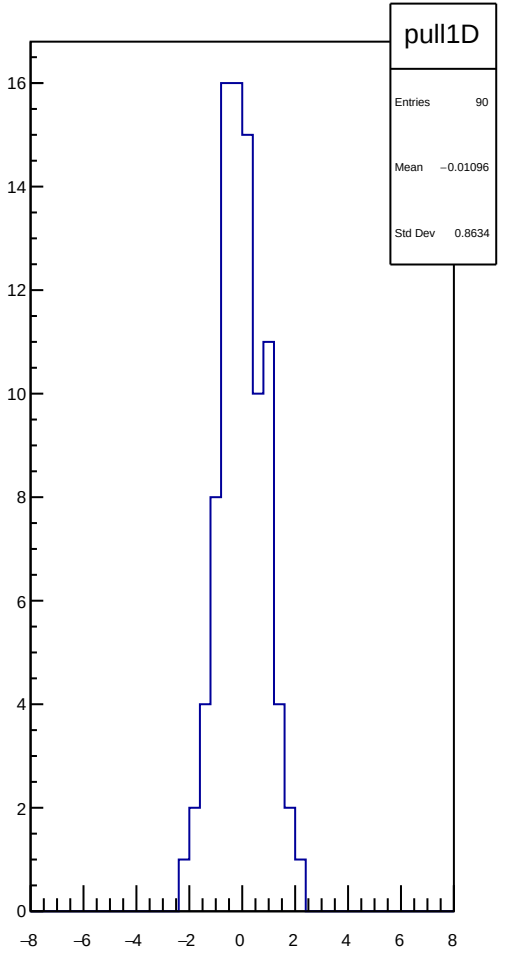

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 170 / 89
p0 1169 ± 0.8815
1210
1200
1190
1180
1170
1160
1150
1140
1130

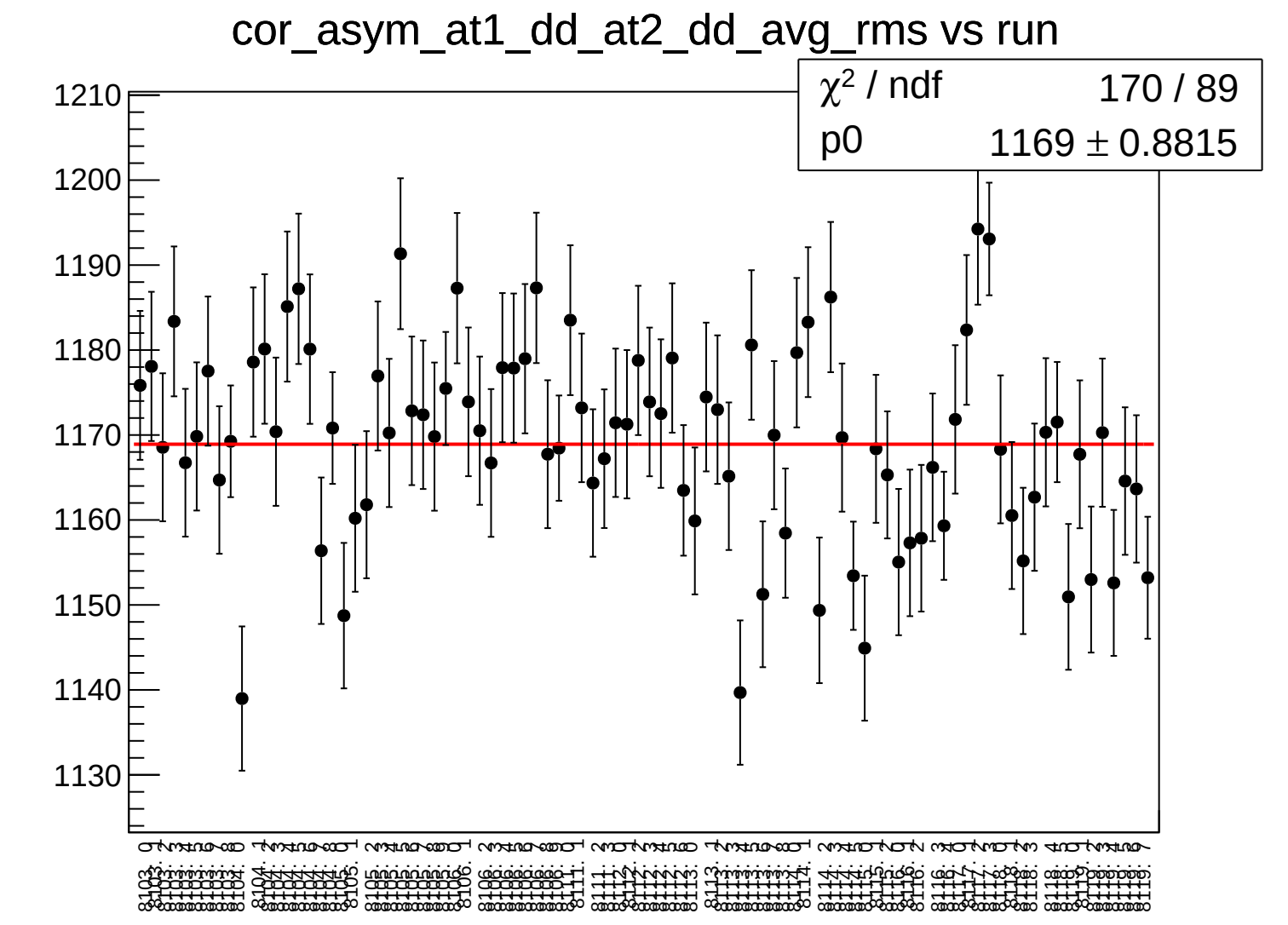

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 89.81 / 89
p0 2624 ± 1026
pull
Entries 90
Mean −826.5
Std Dev 0

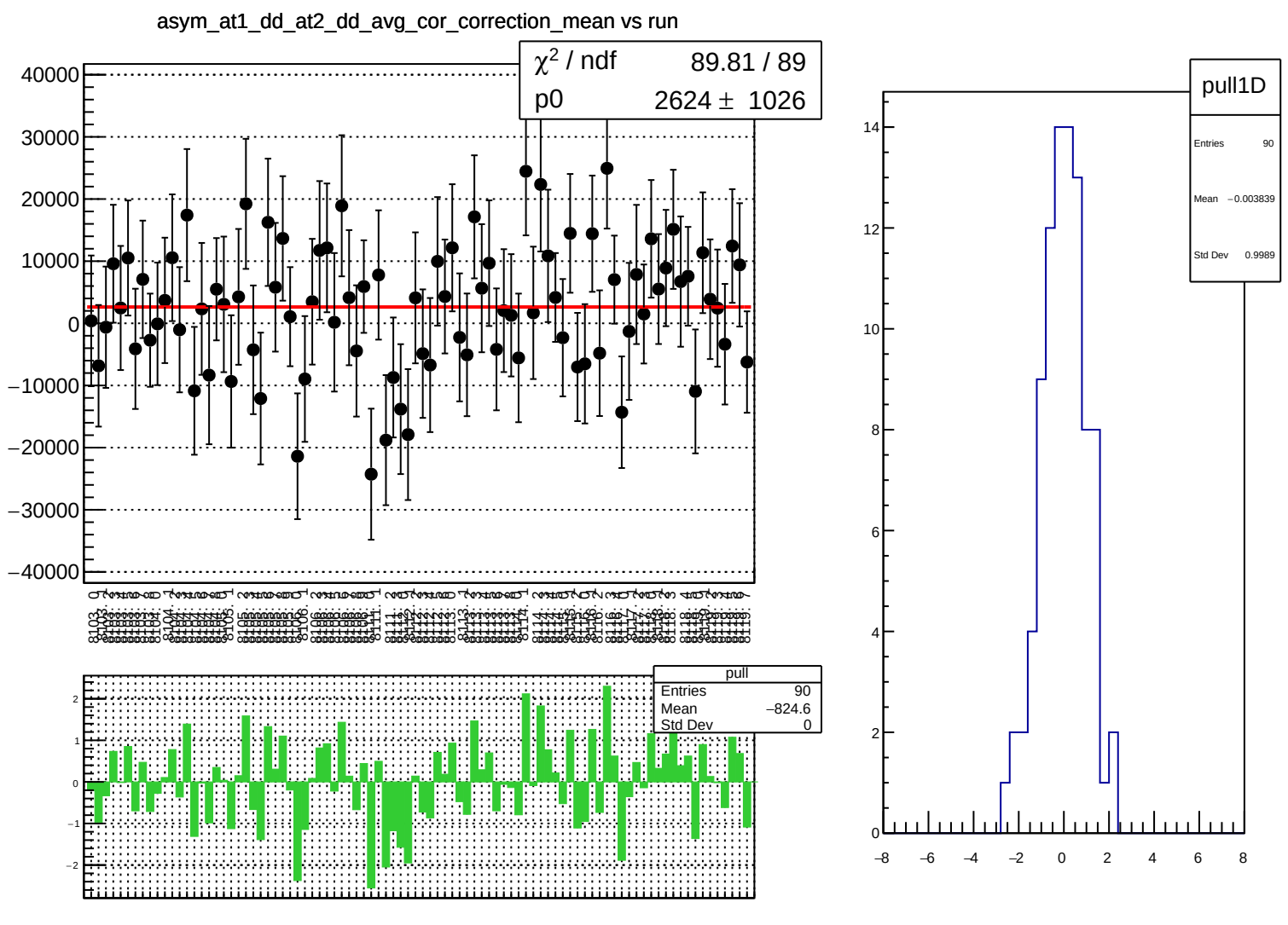

pull1D
Entries 90
Mean −0.003829
Std Dev 0.9989

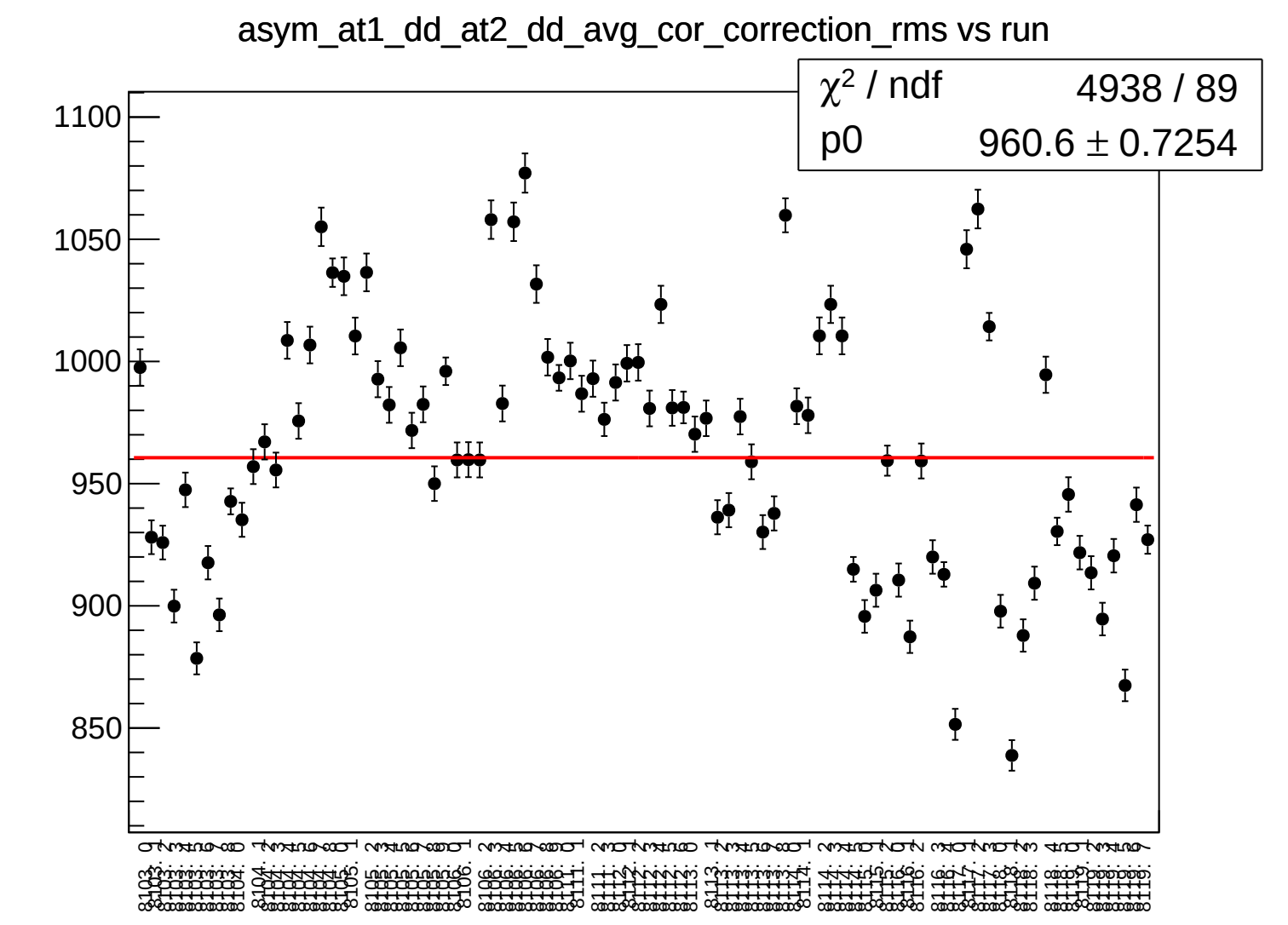

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4940 / 89
p0 960.6 ± 0.7254
1100
1050
1000
950
900
850

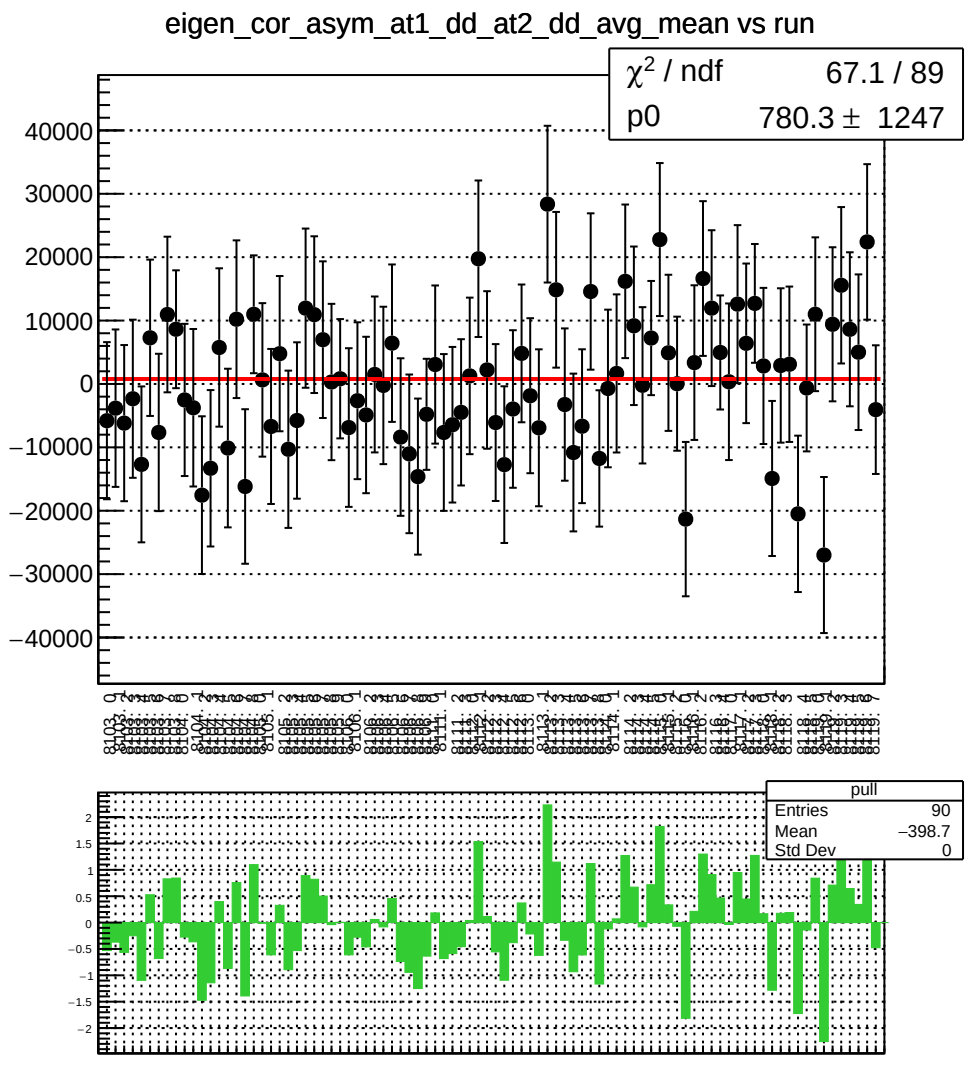

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 67.1 / 89
p0 780.3 ± 1247
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −398.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

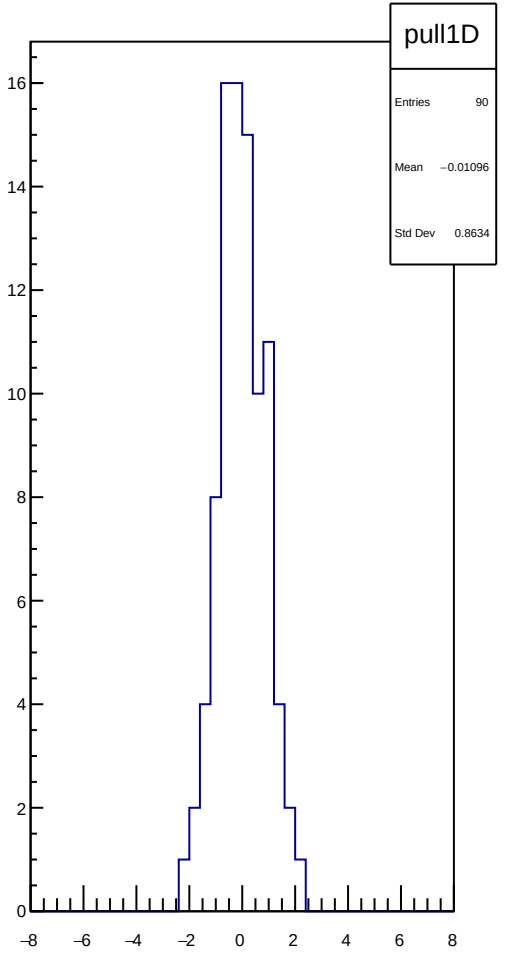

pull1D
Entries 90
Mean −0.01096
Std Dev 0.8634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

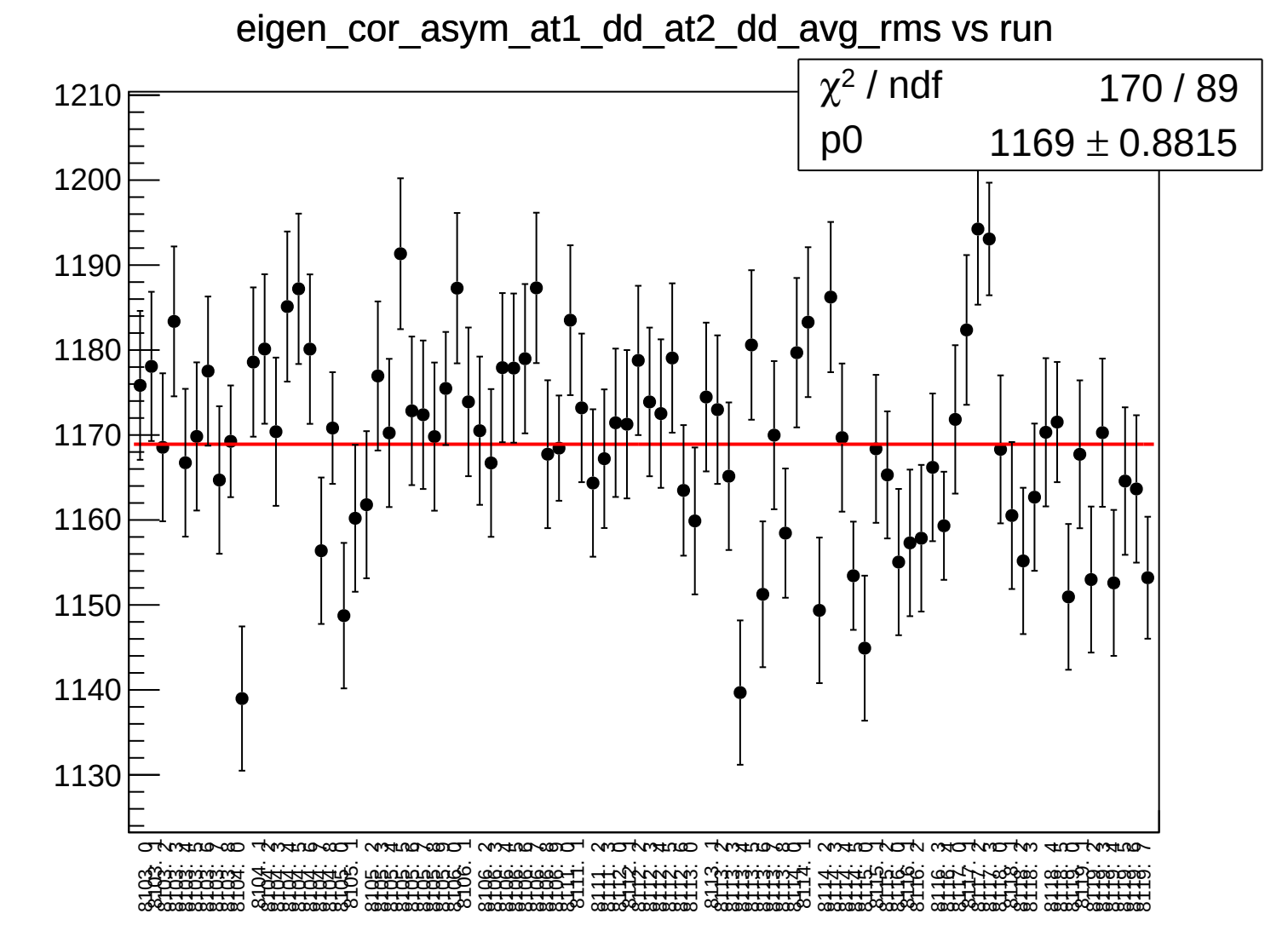

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 170 / 89
p0 1169 ± 0.8815
1210
1200
1190
1180
1170
1160
1150
1140
1130

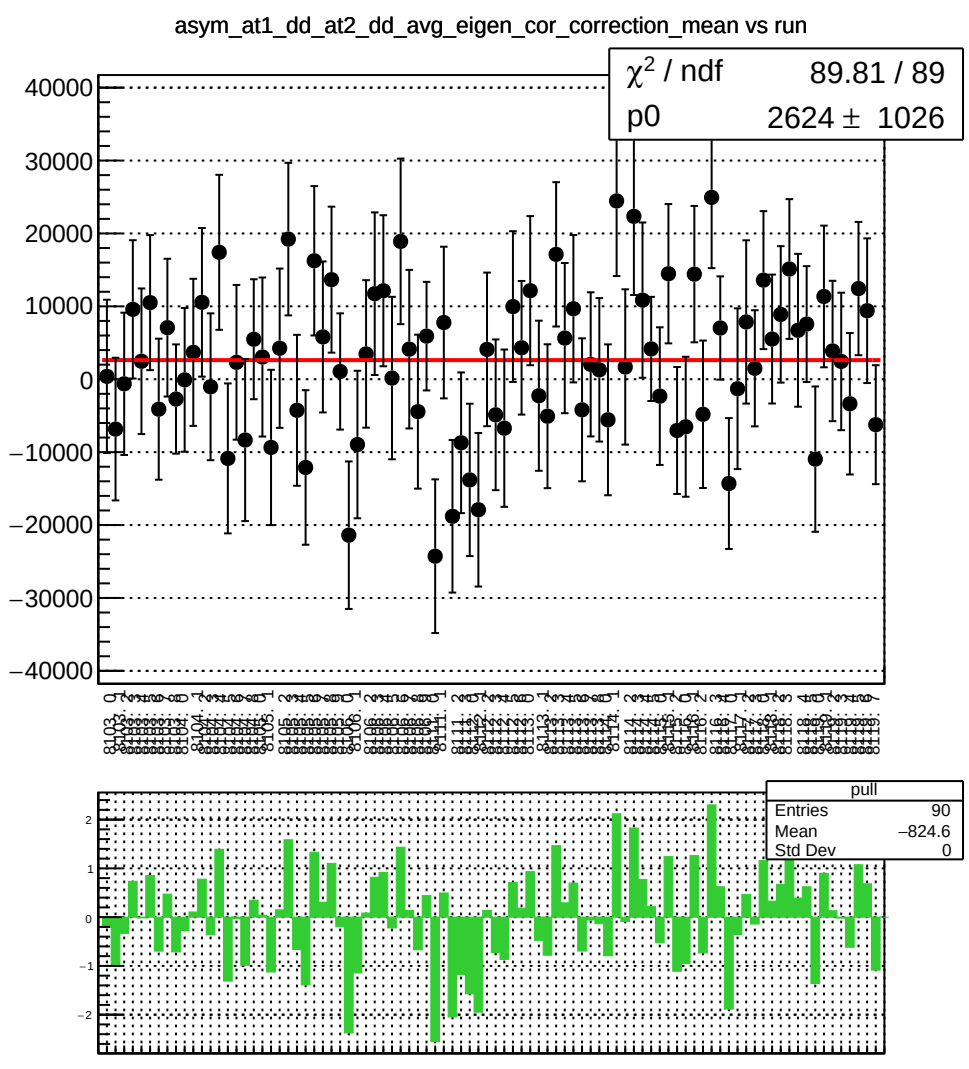

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 89.81 / 89
p0 2624 ± 1026
pull
Entries 90
Mean −824.6
Std Dev 0
pull1D
Entries 90
Mean −0.003839
Std Dev 0.9989

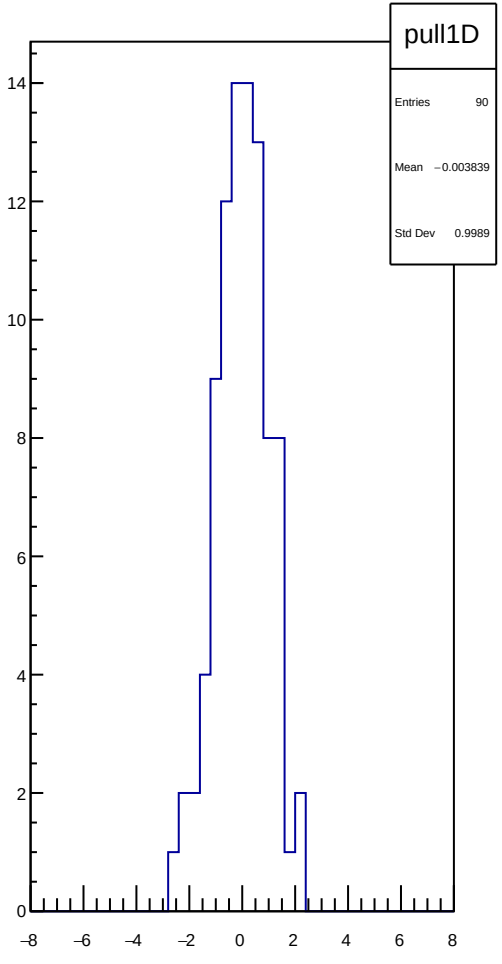

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 4938 / 89
p0 960.6 ± 0.7254
1100
1050
1000
950
900
850

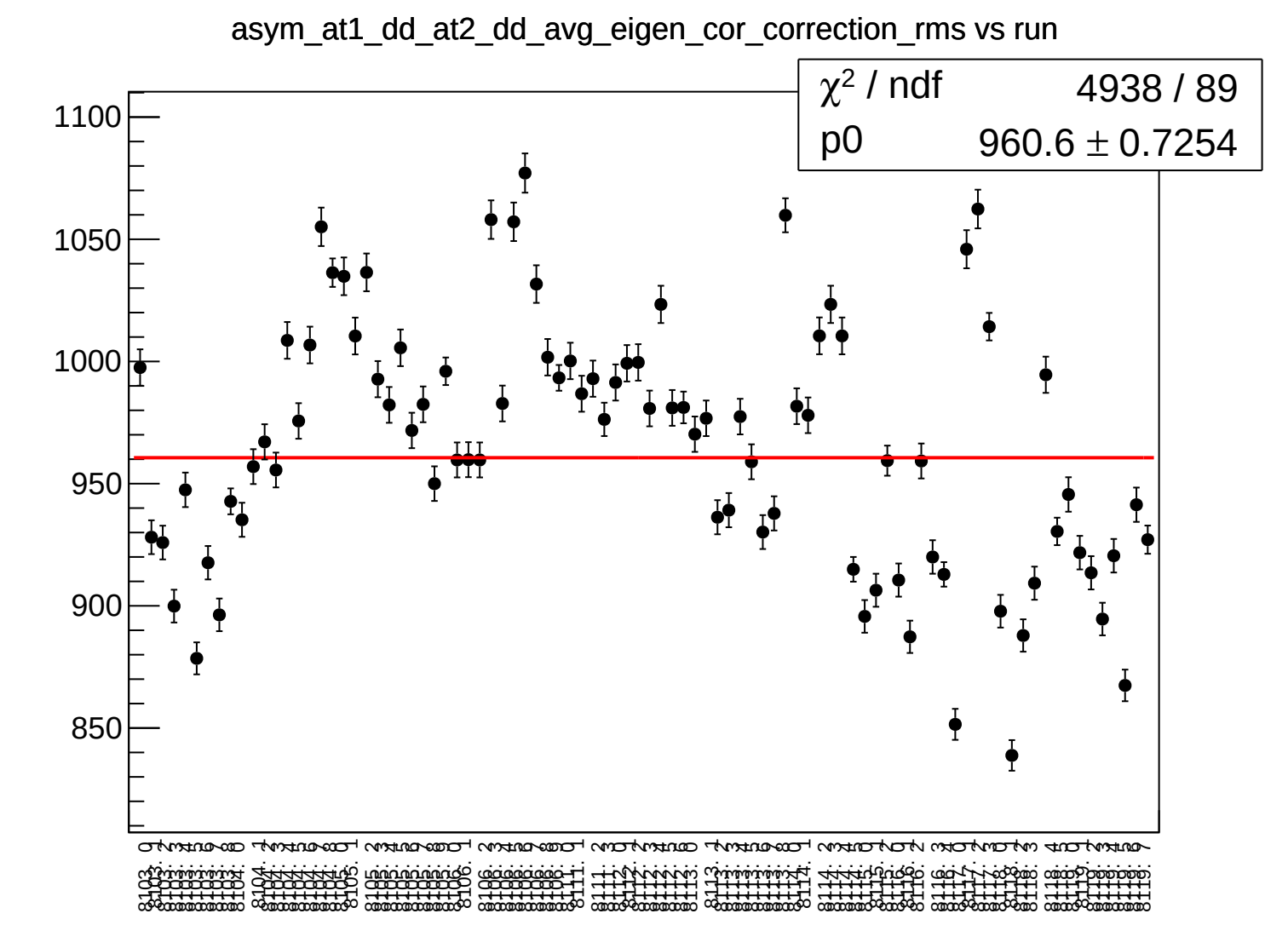

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 67.1 / 89
p0 780.3 ± 1247
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −398.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

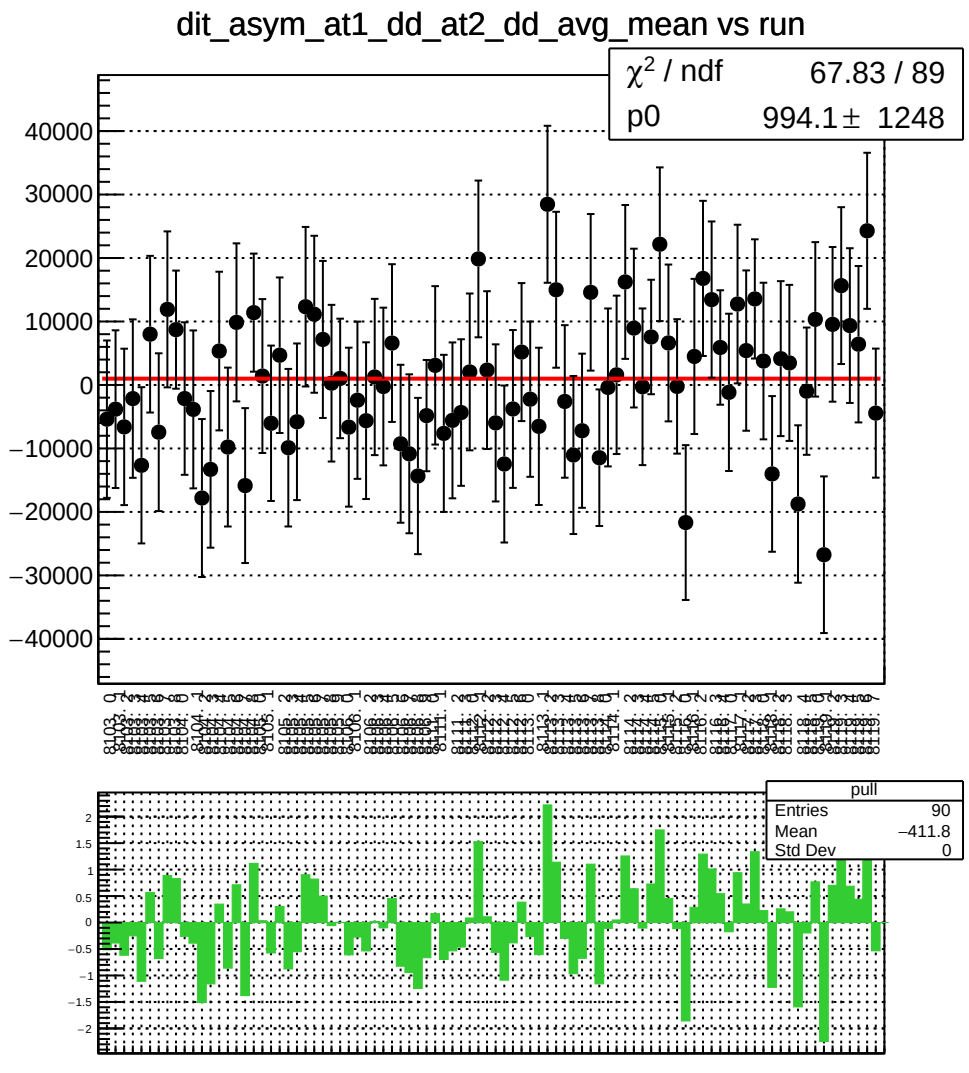

pull1D
Entries 90
Mean −0.01096
Std Dev 0.8634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

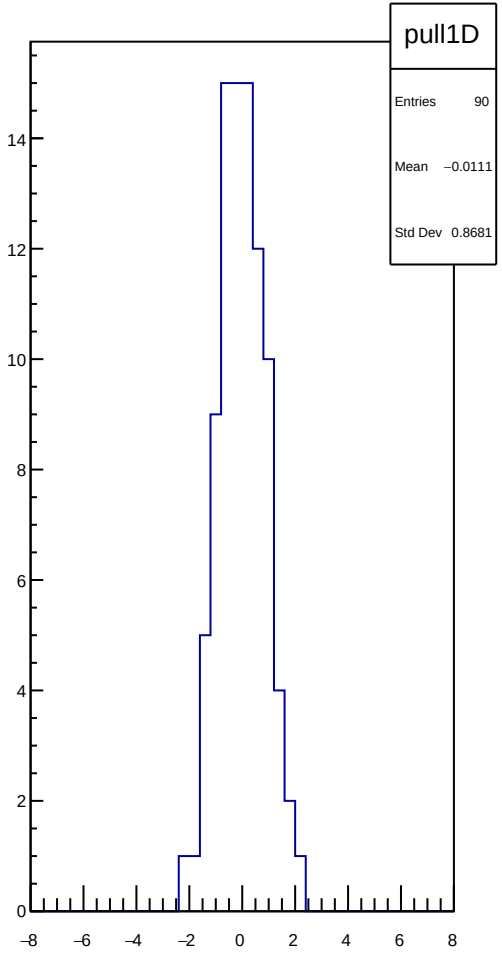

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 170 / 89
p0 1169 ± 0.8815
1210
1200
1190
1180
1170
1160
1150
1140
1130

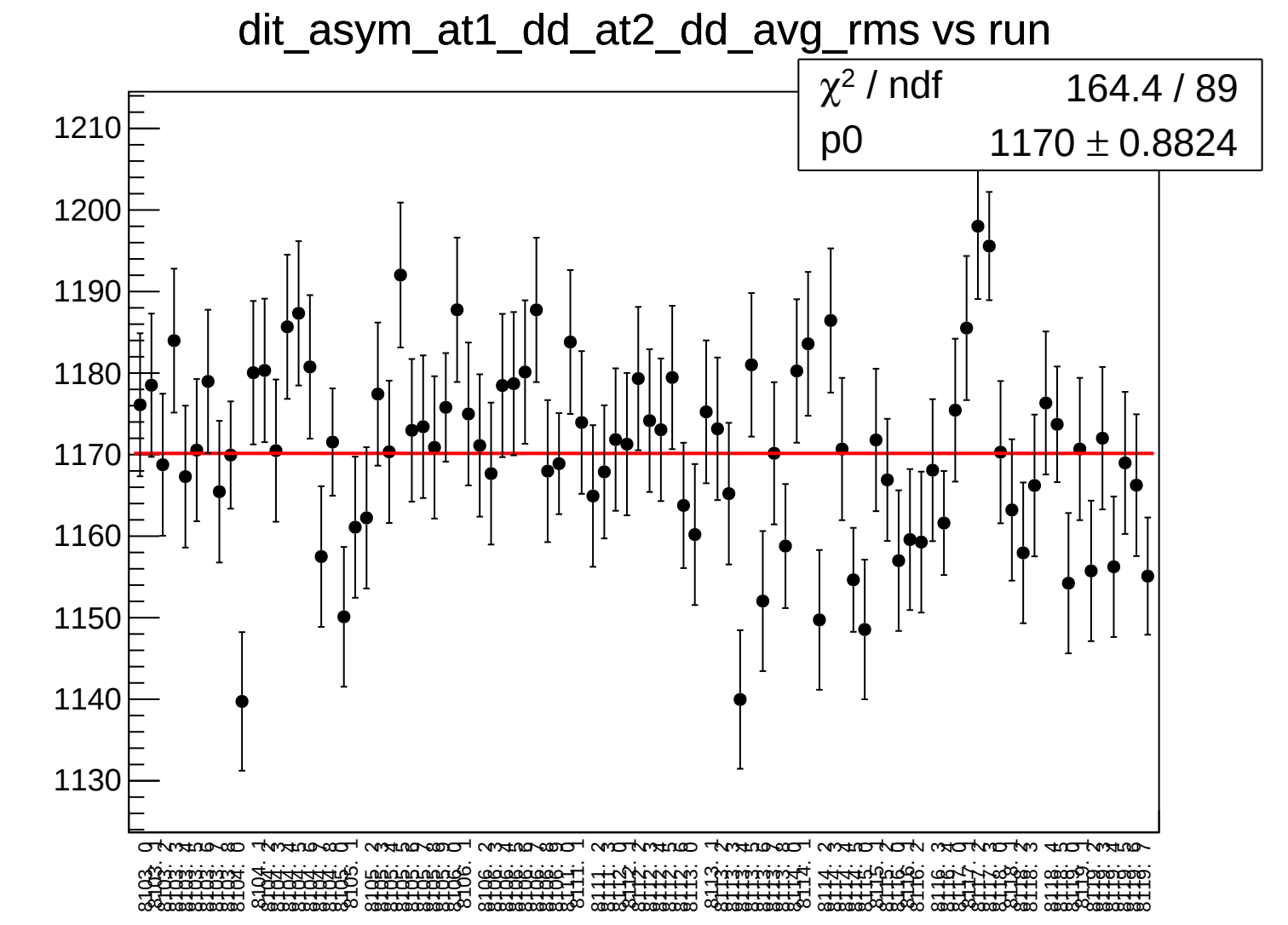

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.81 / 89
p0 2624 ± 1026
pull
Entries 90
Mean −824.6
Std Dev 0

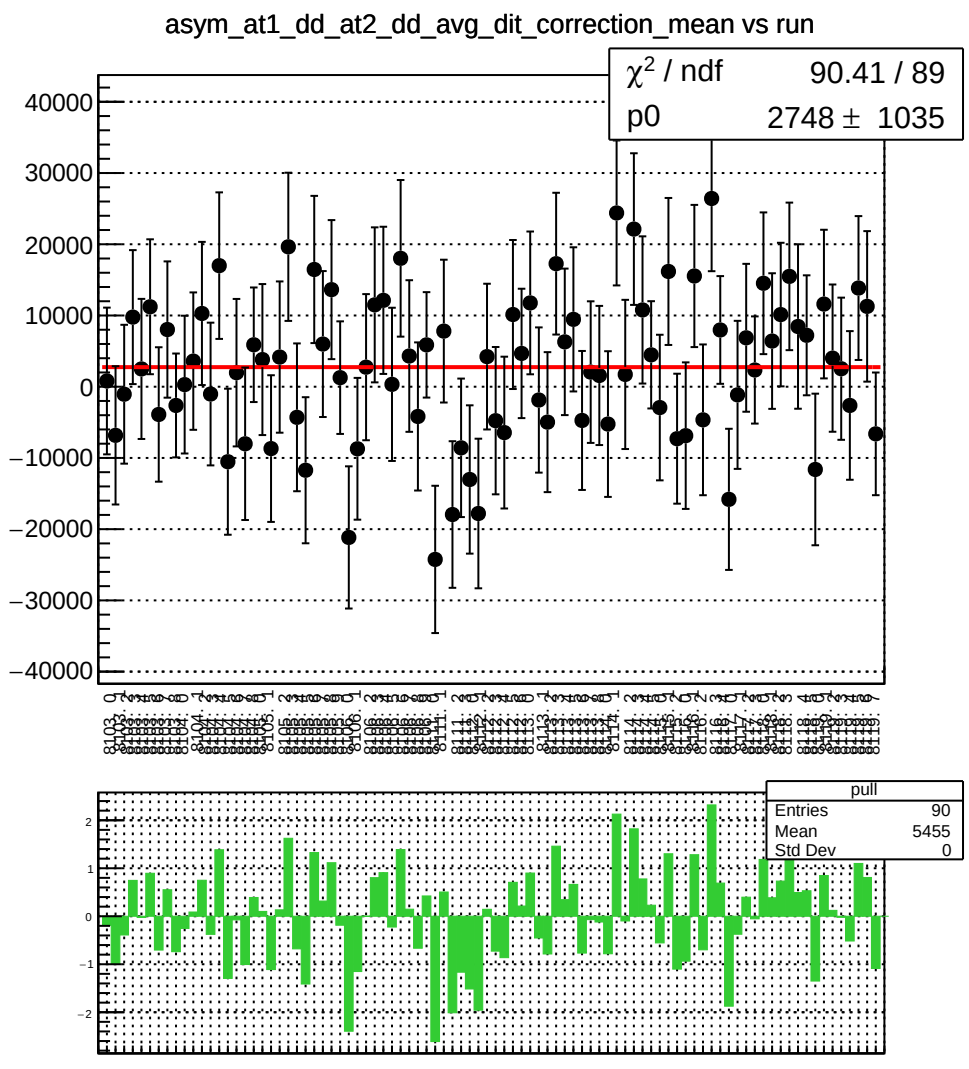

pull1D
Entries 90
Mean −0.003839
Std Dev 0.9989

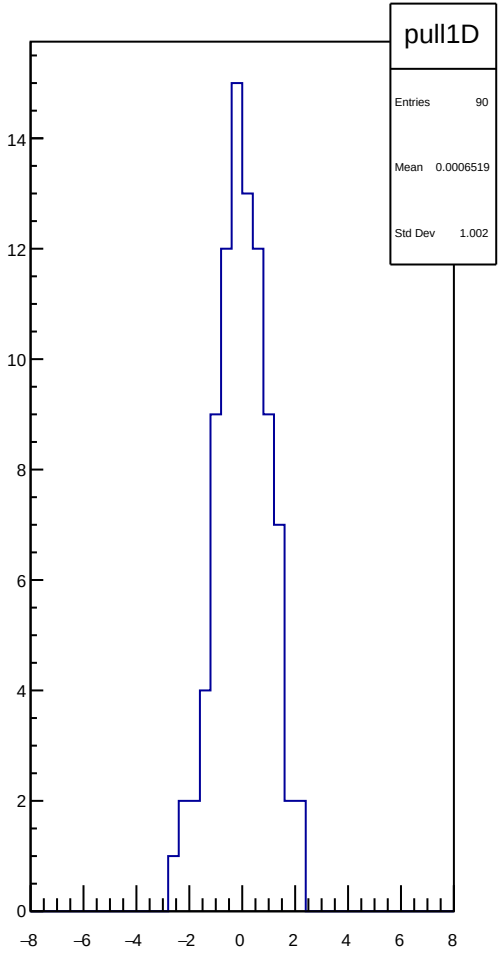

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4938 / 89
p0 960.6 ± 0.7254
1100
1050
1000
950
900
850

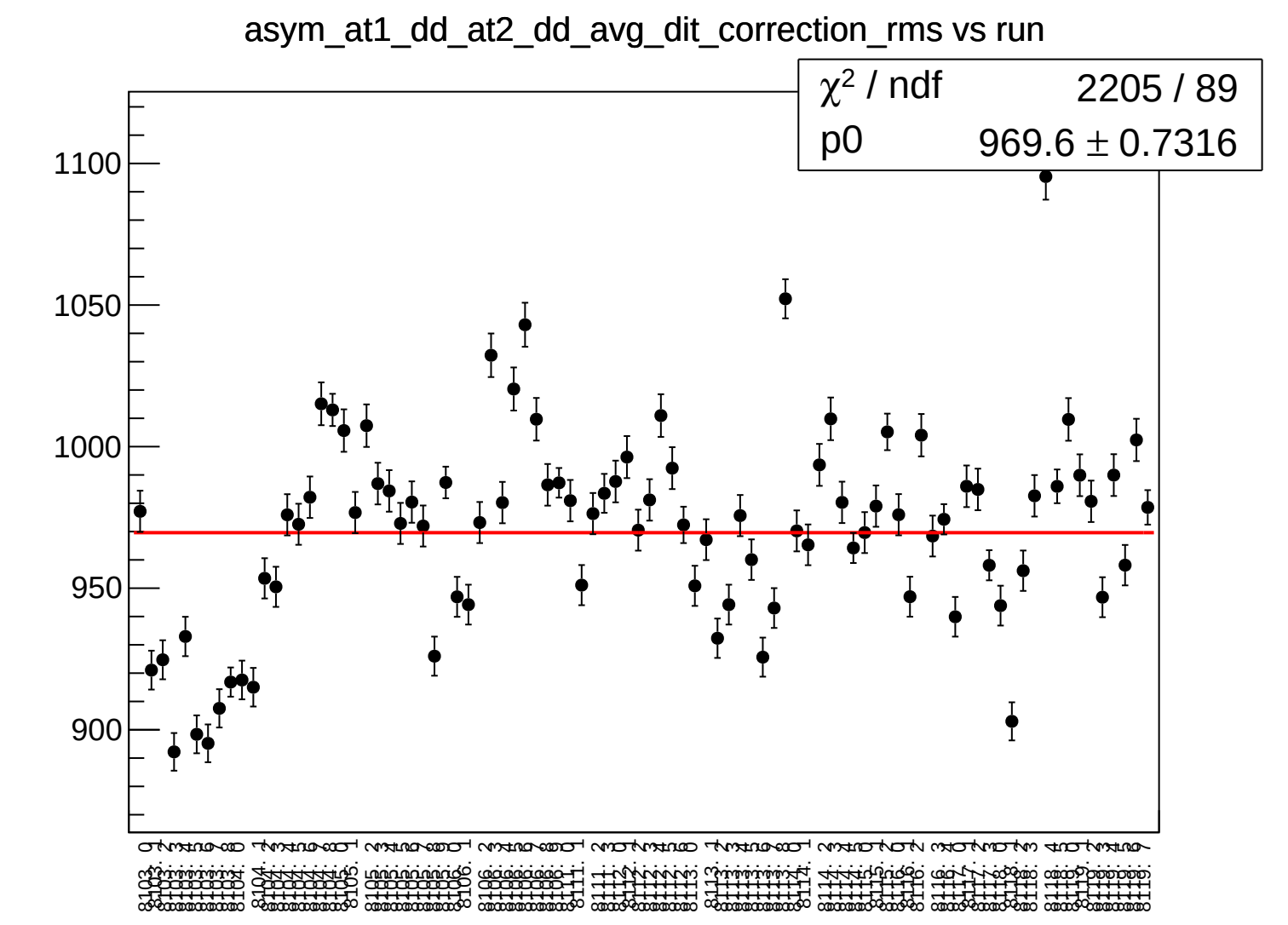

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 67.83 / 89
p0 994.1 ± 1248
pull
Entries 90
Mean −411.8
Std Dev 0

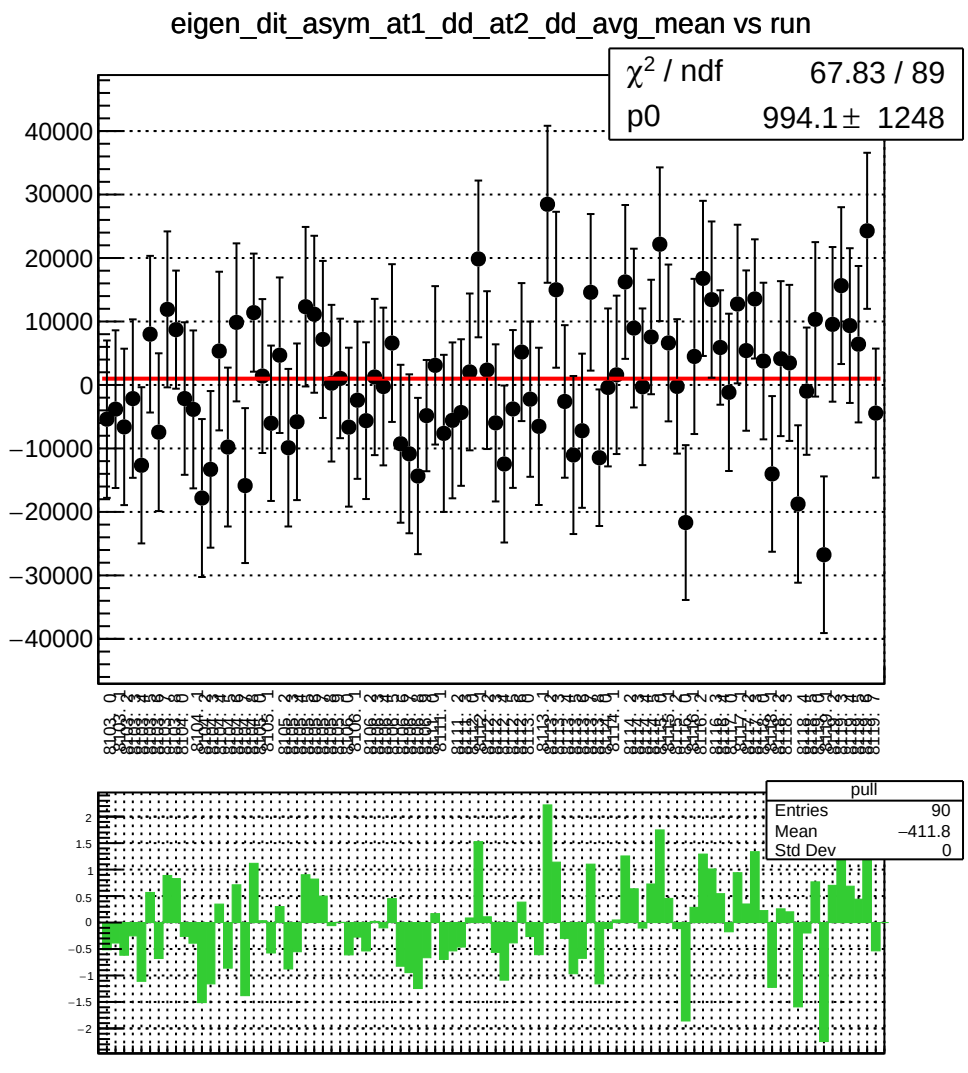

pull1D
Entries 90
Mean −0.0111
Std Dev 0.8681

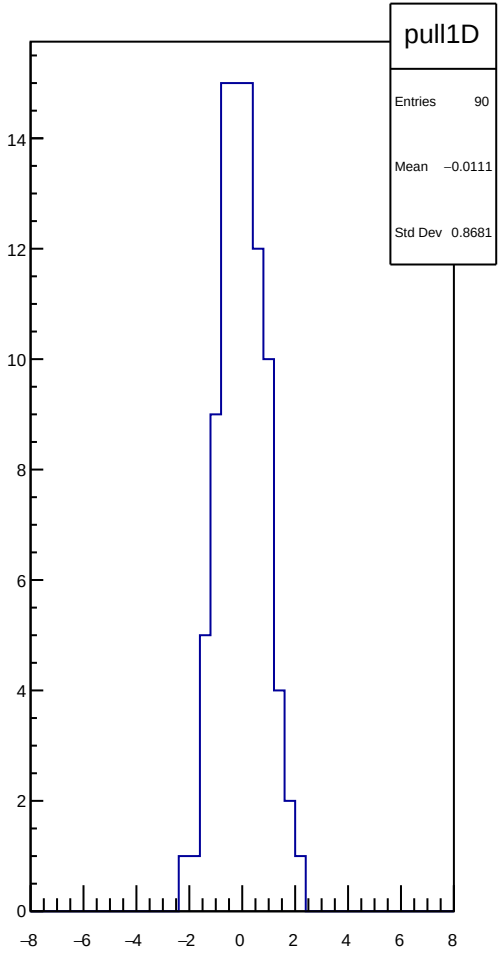

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 164.4 / 89
p0 1170 ± 0.8824
1210
1200
1190
1180
1170
1160
1150
1140
1130

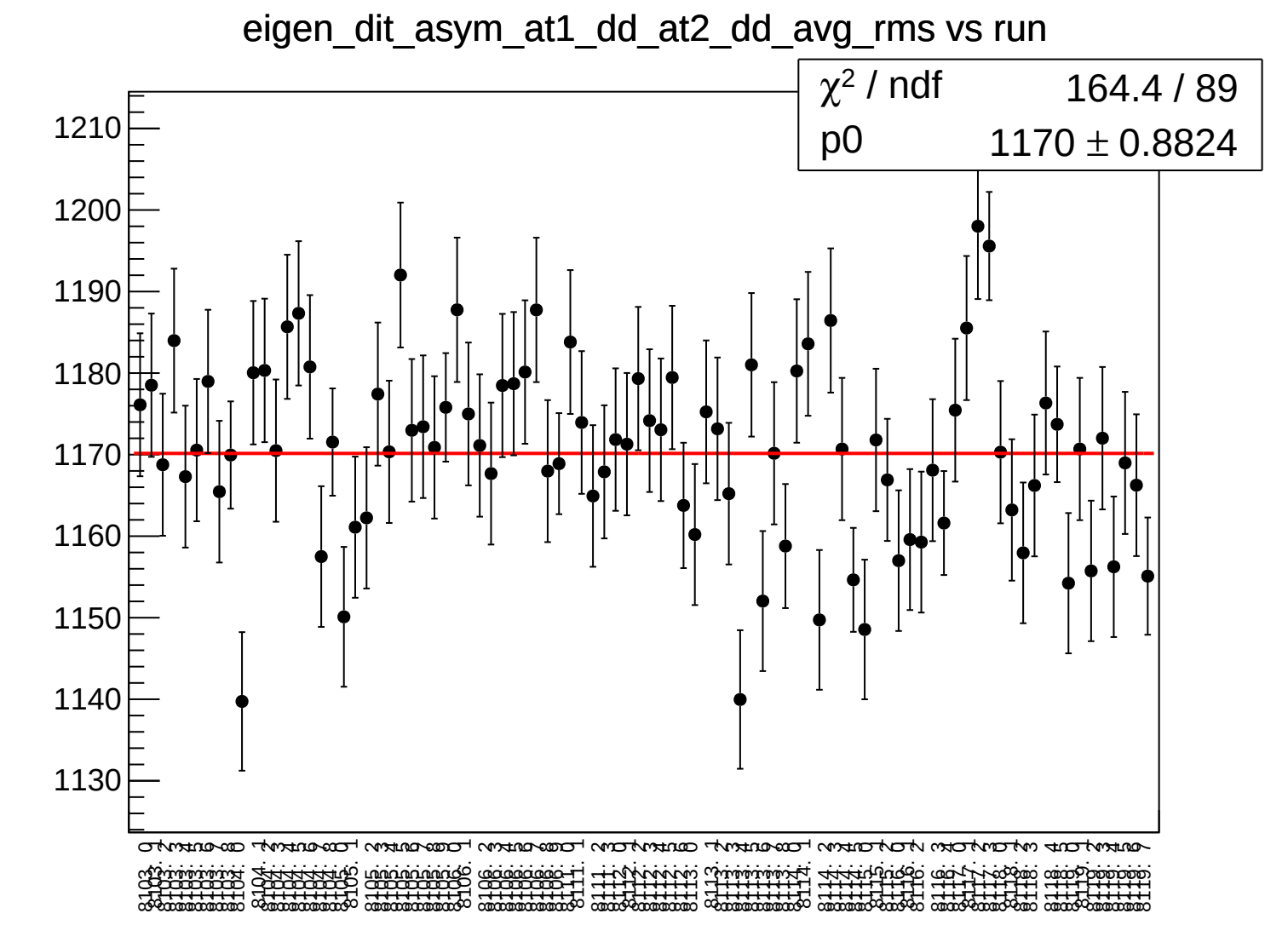

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 90.41 / 89
p0 2748 ± 1035
pull
Entries 90
Mean 5455
Std Dev 0

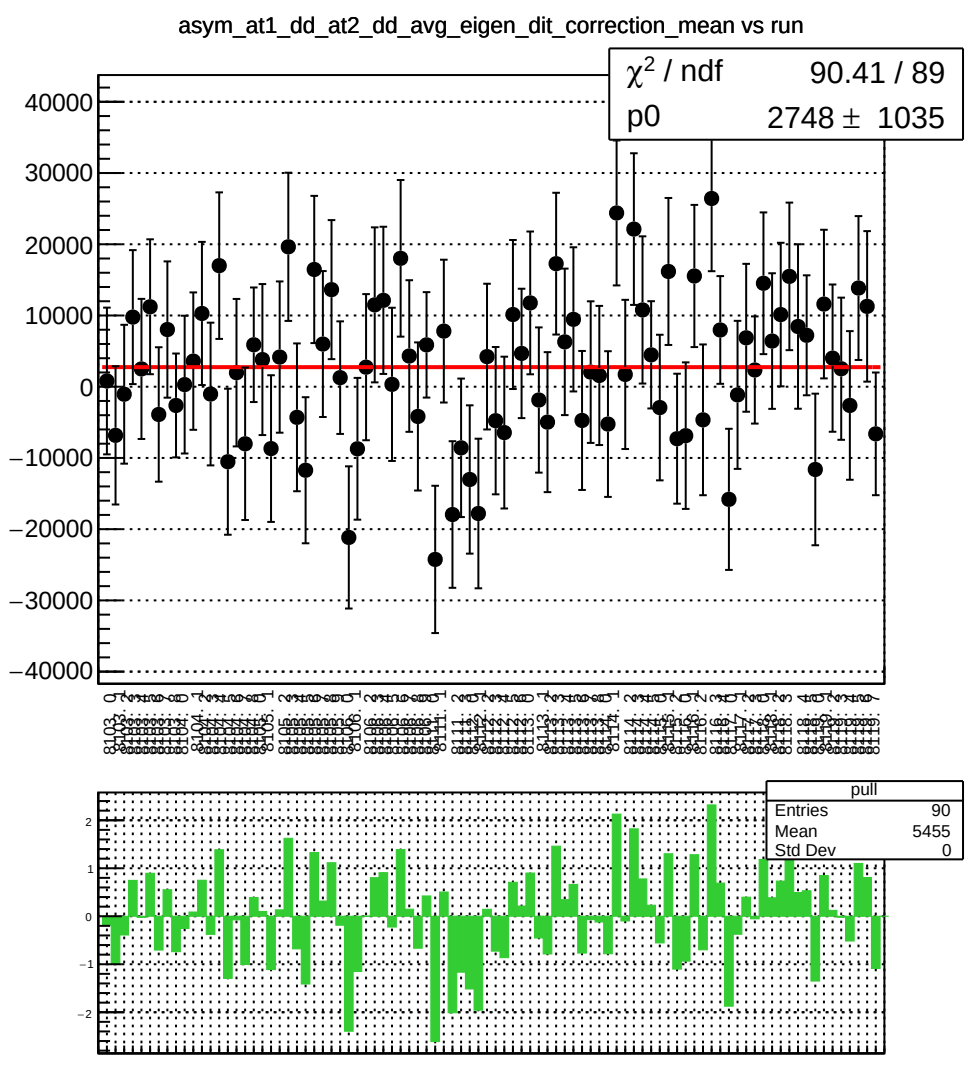

pull1D
Entries 90
Mean 0.0006519
Std Dev 1.002

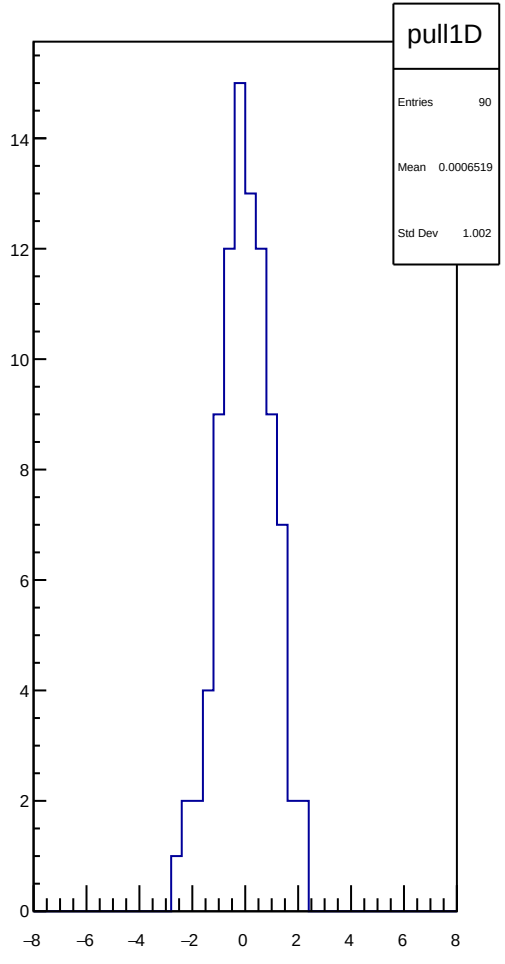

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2205 / 89
p0 969.6 ± 0.7316
1100
1050
1000
950
900

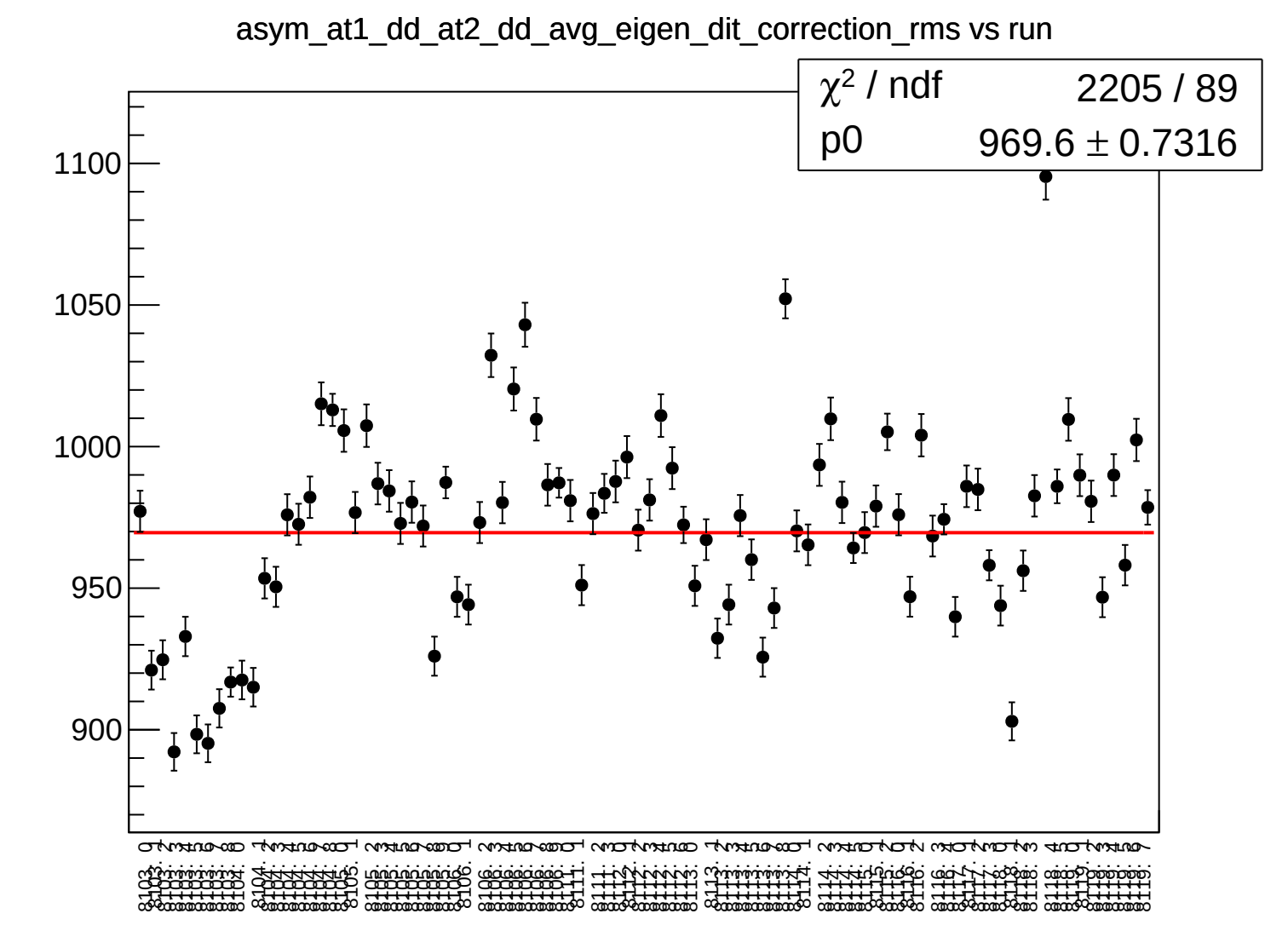

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 67.83 / 89
p0 994.1 ± 1248
pull
Entries 90
Mean −411.8
Std Dev 0

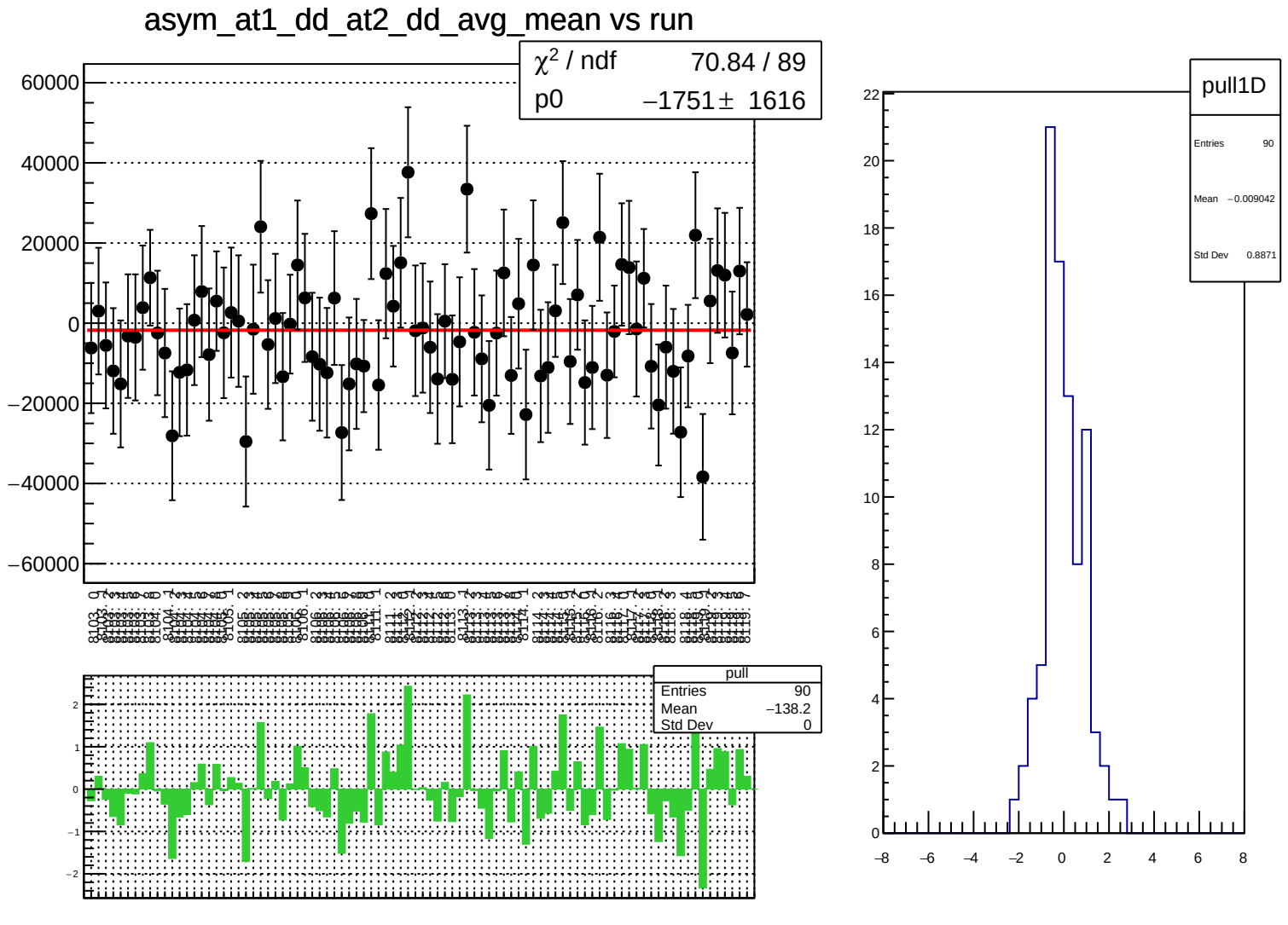

pull1D
Entries 90
Mean −0.0111
Std Dev 0.8681

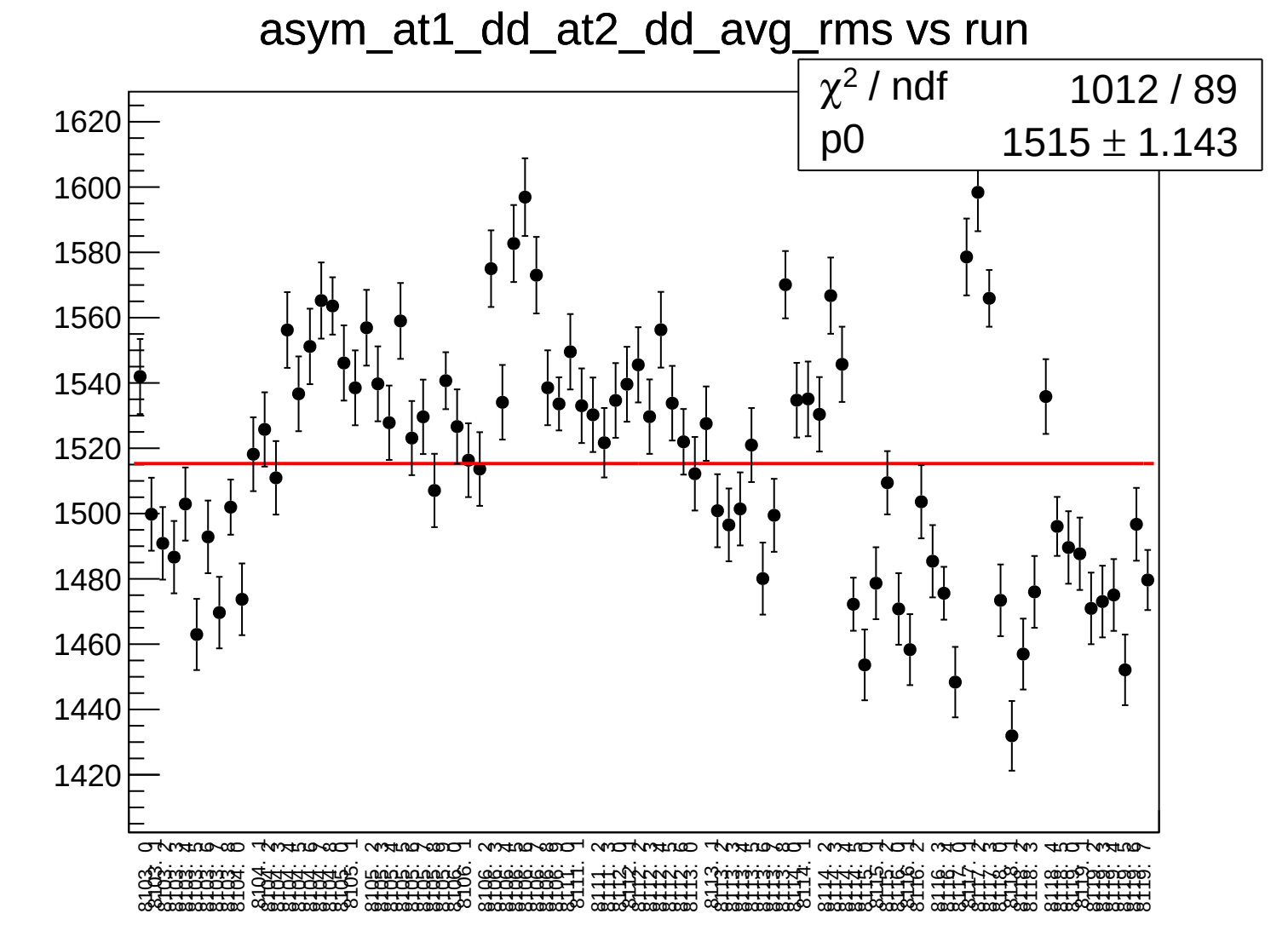

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 164.4 / 89
p0 1170 ± 0.8824
1210
1200
1190
1180
1170
1160
1150
1140
1130

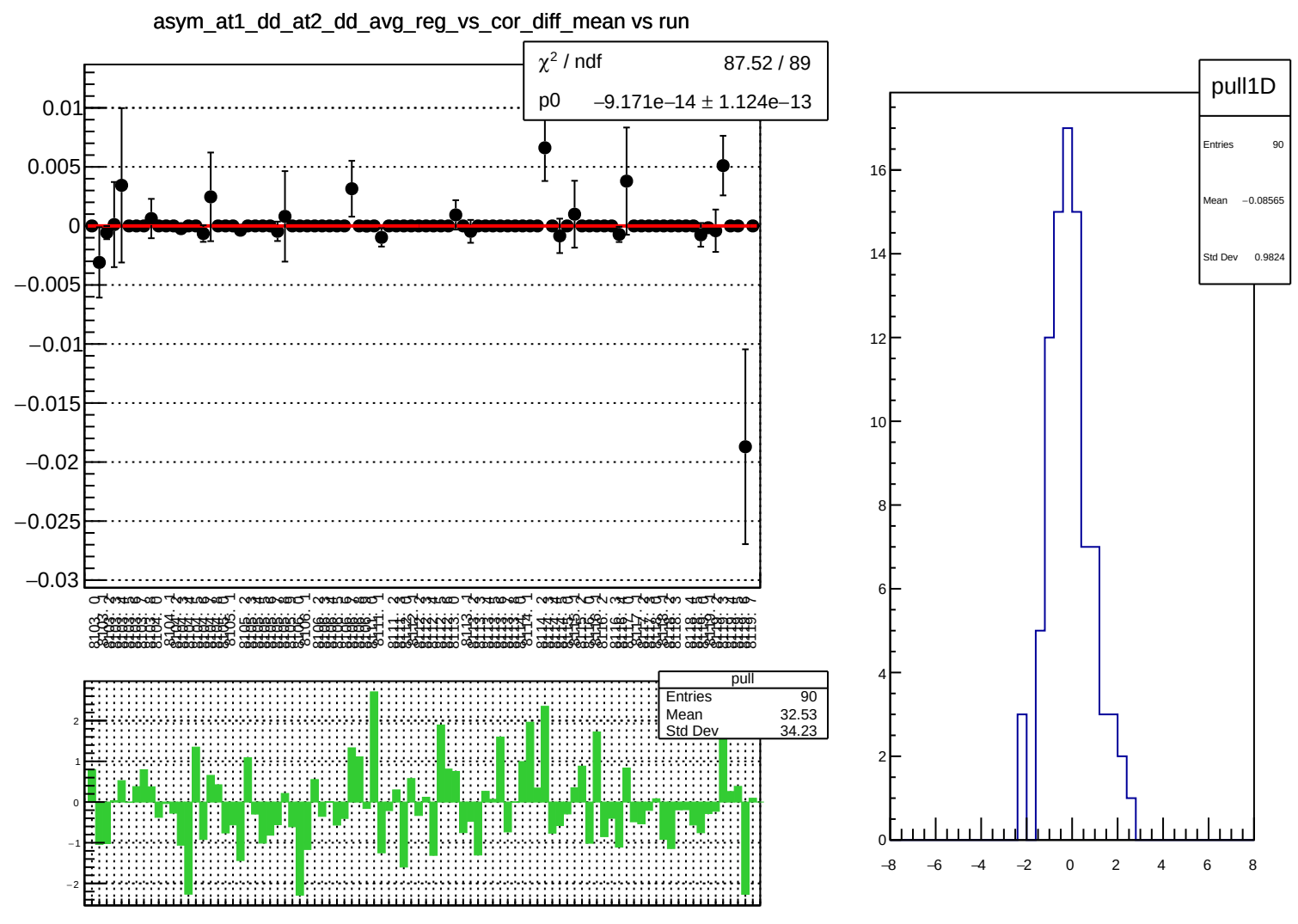

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.41 / 89
p0 2748 ± 1035
pull
Entries 90
Mean 5455
Std Dev 0

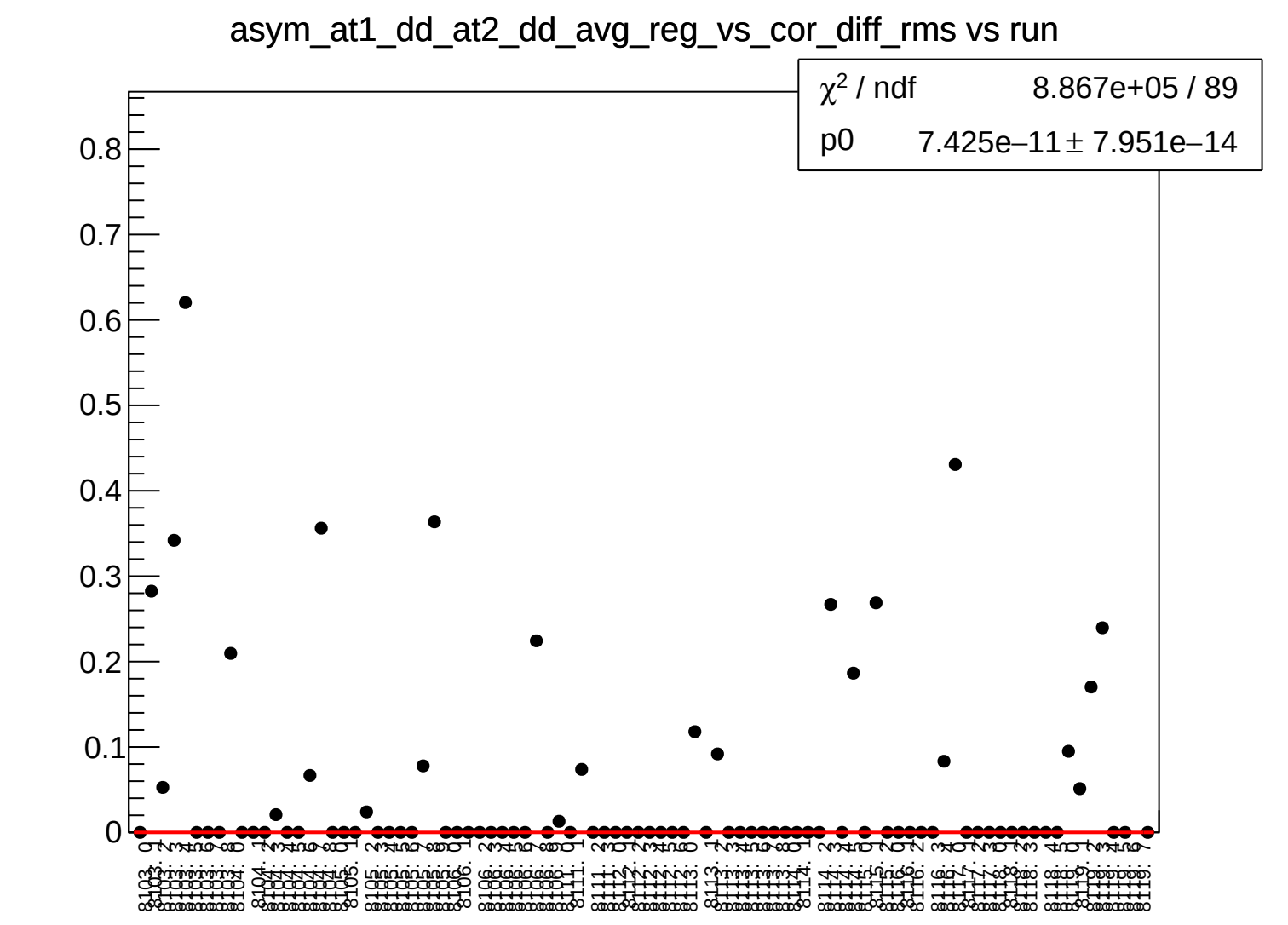

pull1D
Entries 90
Mean 0.0006519
Std Dev 1.002

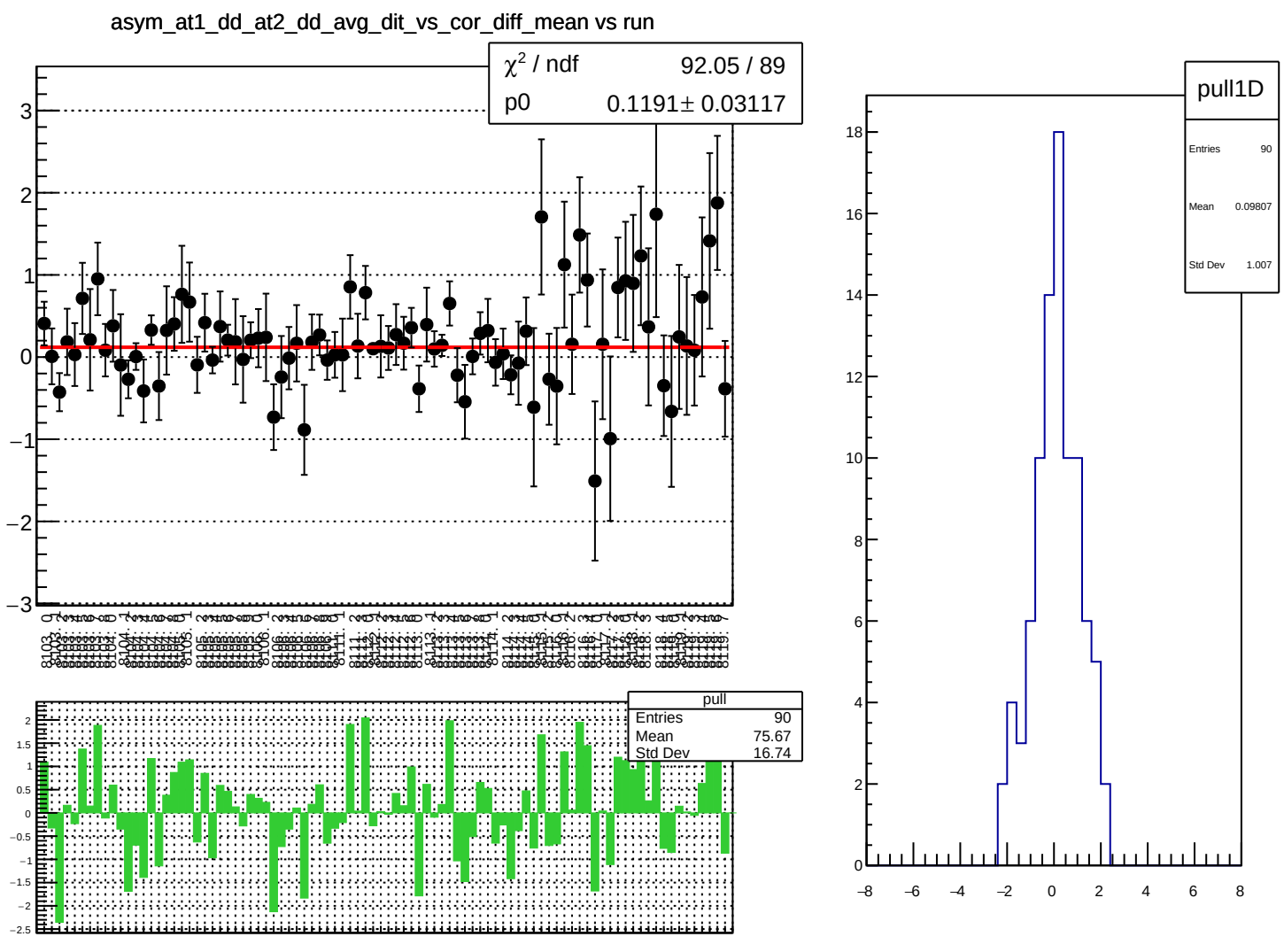

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2205 / 89
p0 969.6 ± 0.7316
1100
1050
1000
950
900

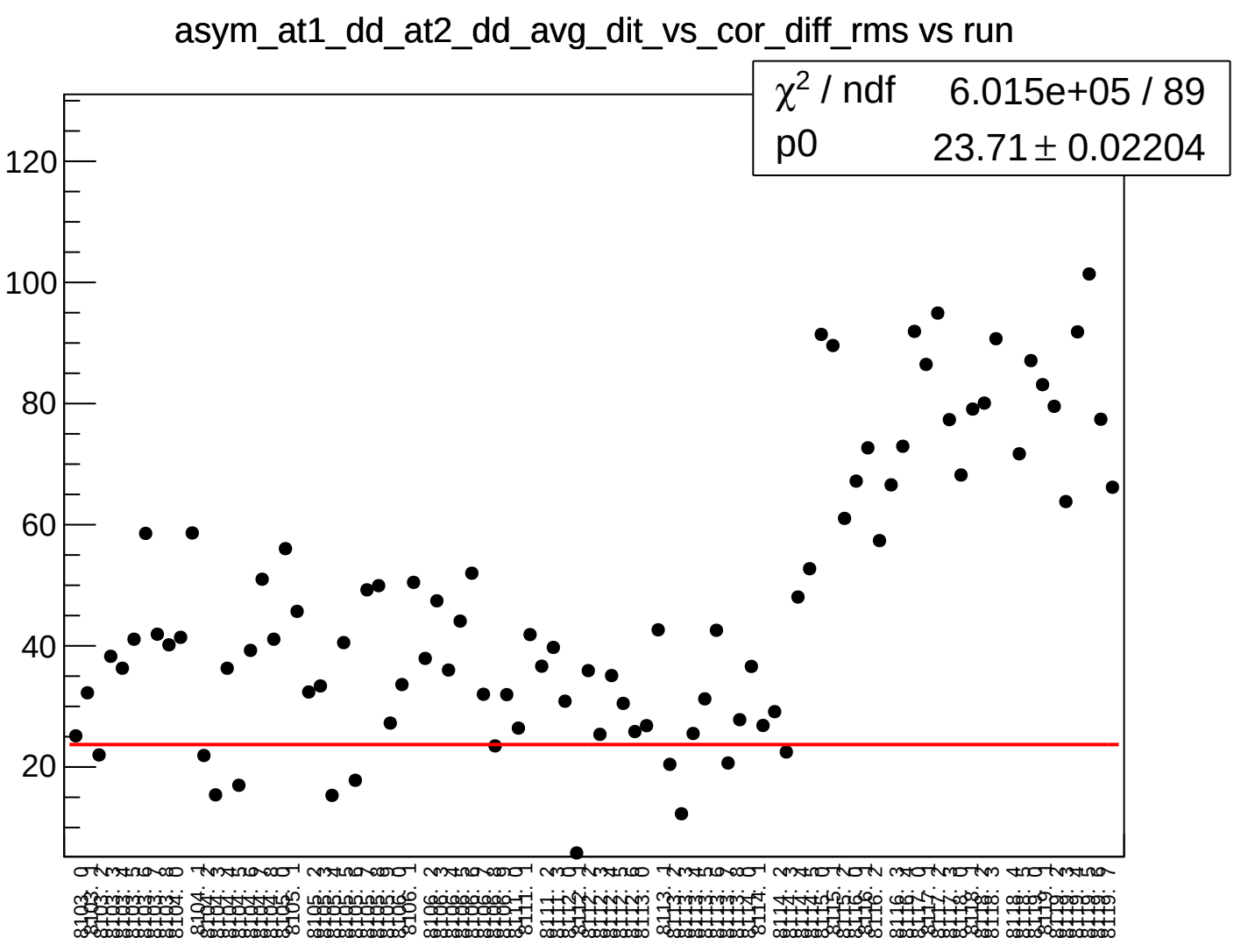

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 70.84 / 89
p0 −1751 ± 1616
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −138.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.009042
Std Dev 0.8871
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

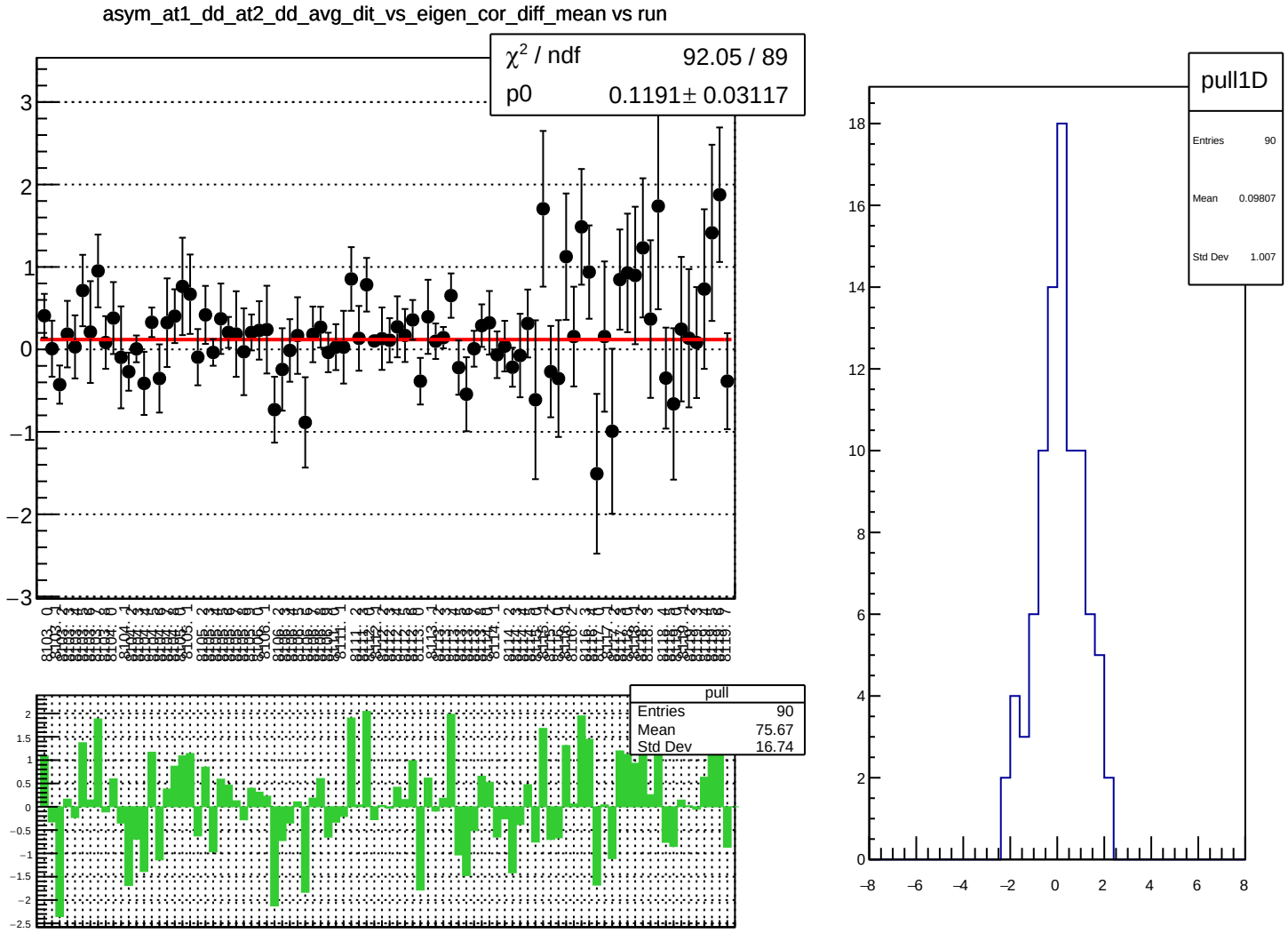

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1012 / 89
p0 1515 ± 1.143
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440
1420

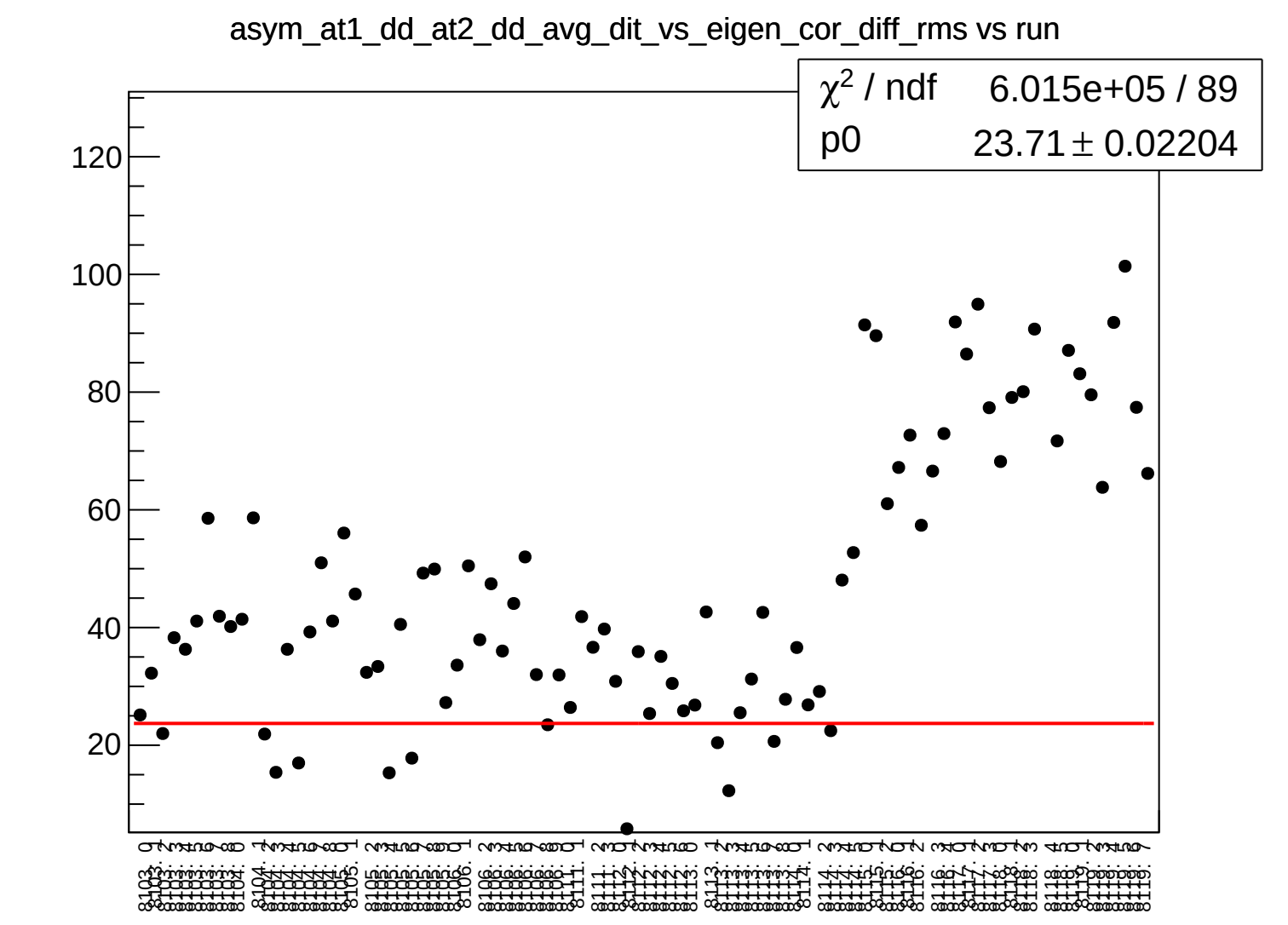

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.52 / 89
p0 −9.171e−14 ± 1.124e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
pull
Entries 90
Mean 32.53
Std Dev 34.23
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.08565
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

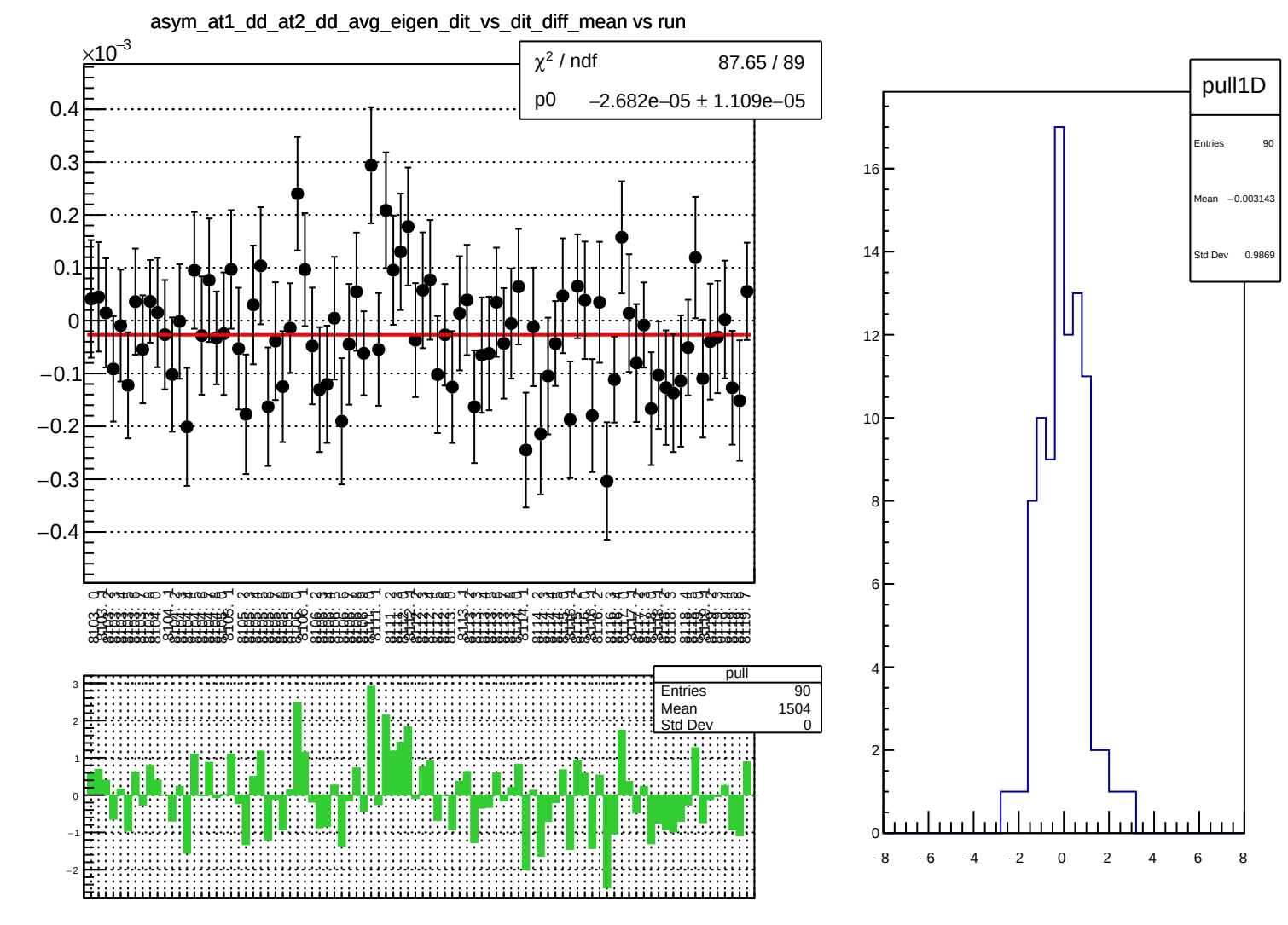

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.867e+05 / 89
p0 7.425e−11 ± 7.951e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

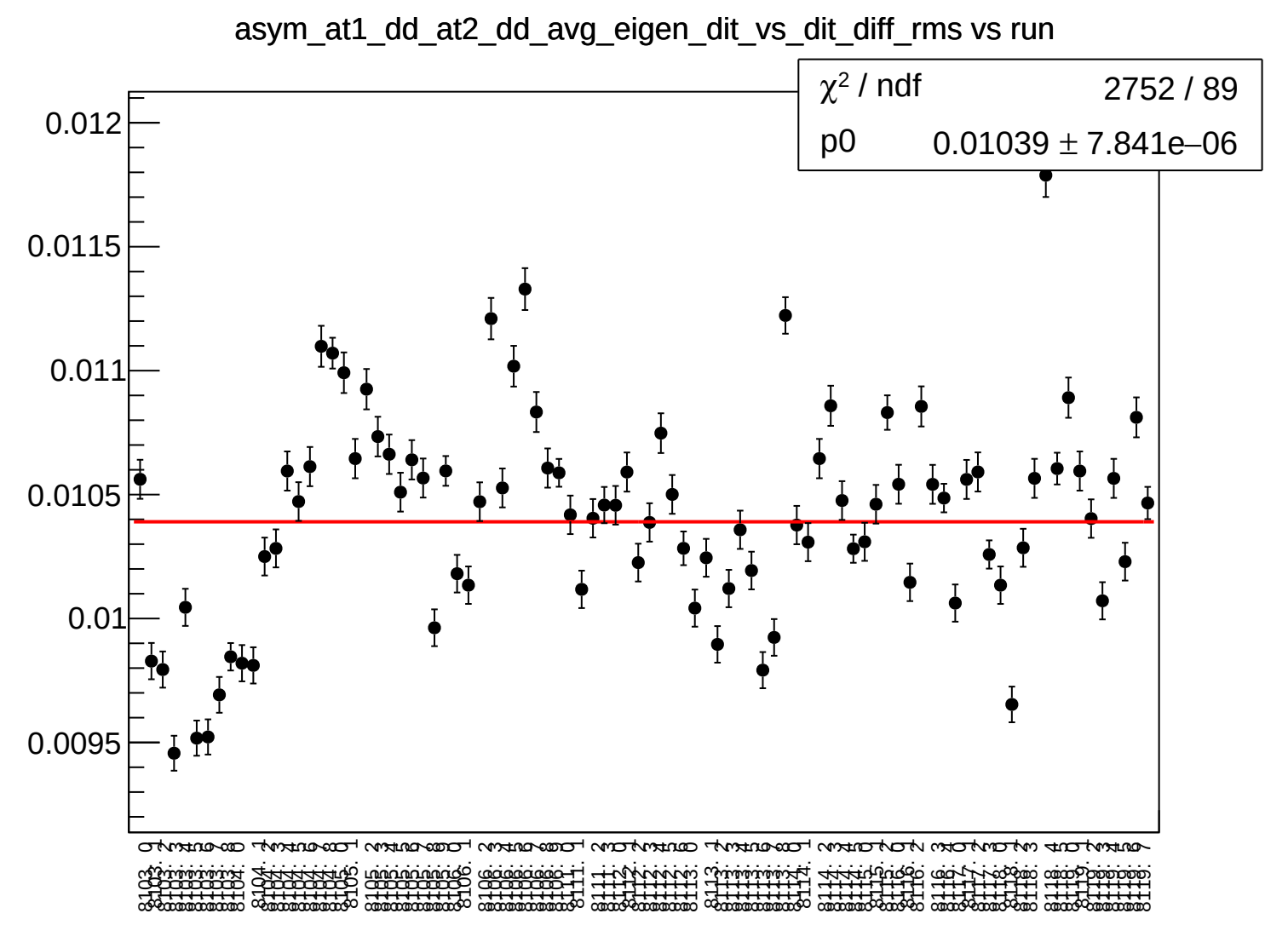

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.05 / 89
p0 0.1191± 0.03117
pull
Entries 90
Mean 75.67
Std Dev 16.74
pull1D
Entries 90
Mean 0.09807
Std Dev 1.007

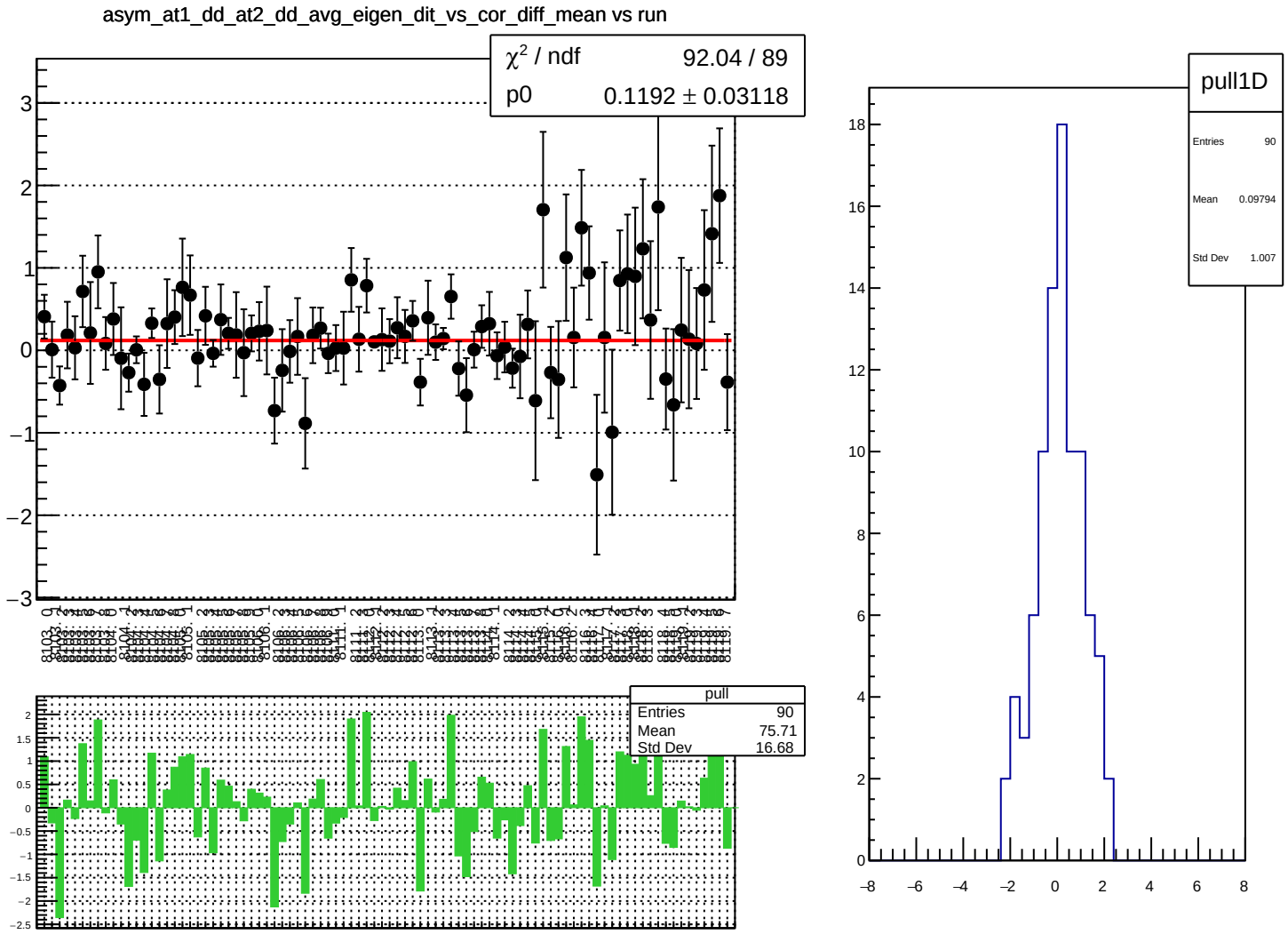

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.015e+05 / 89
p0 23.71 ± 0.02204
120
100
80
60
40
20

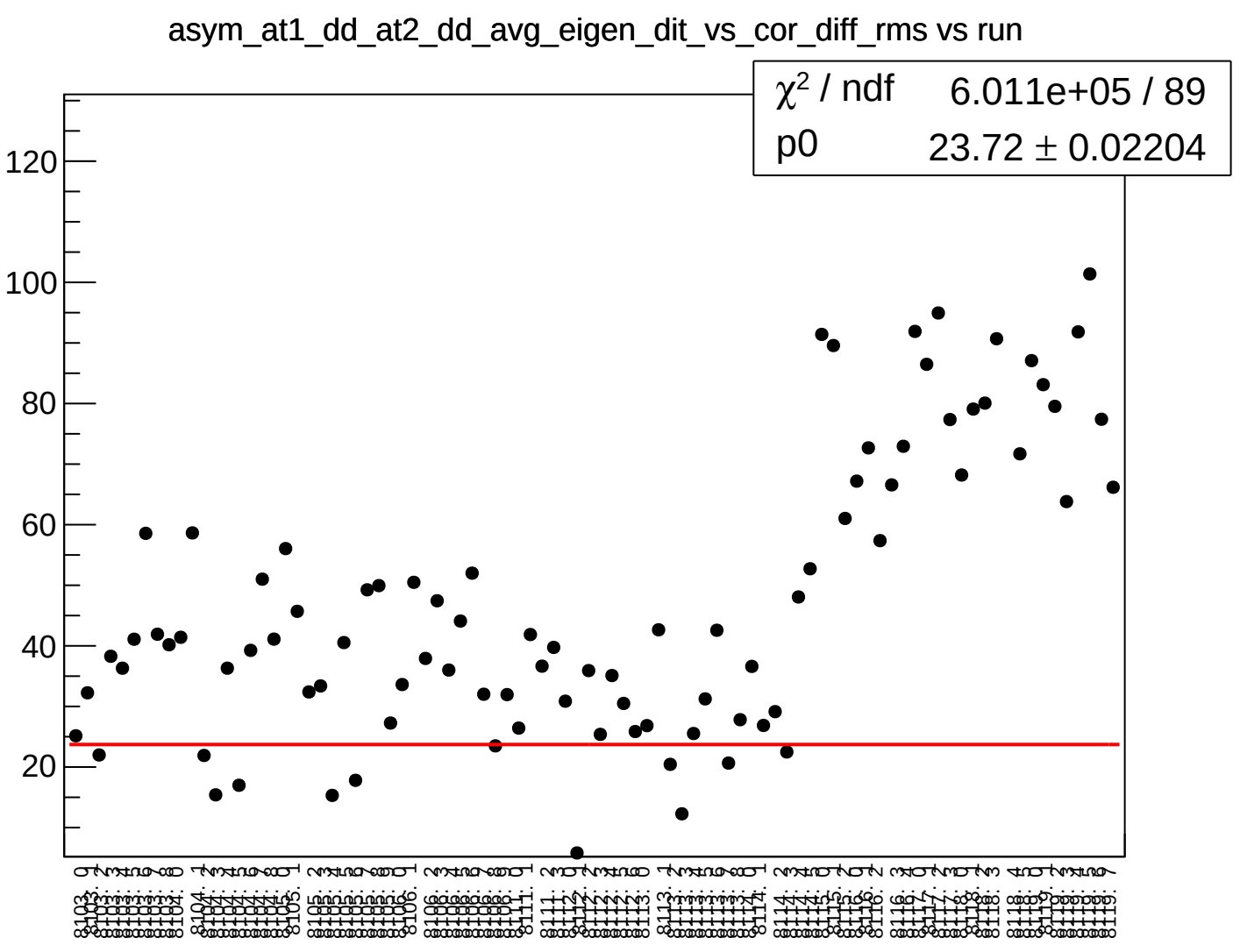

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.05 / 89
p0 0.1191± 0.03117
pull
Entries 90
Mean 75.67
Std Dev 16.74
pull1D
Entries 90
Mean 0.09807
Std Dev 1.007

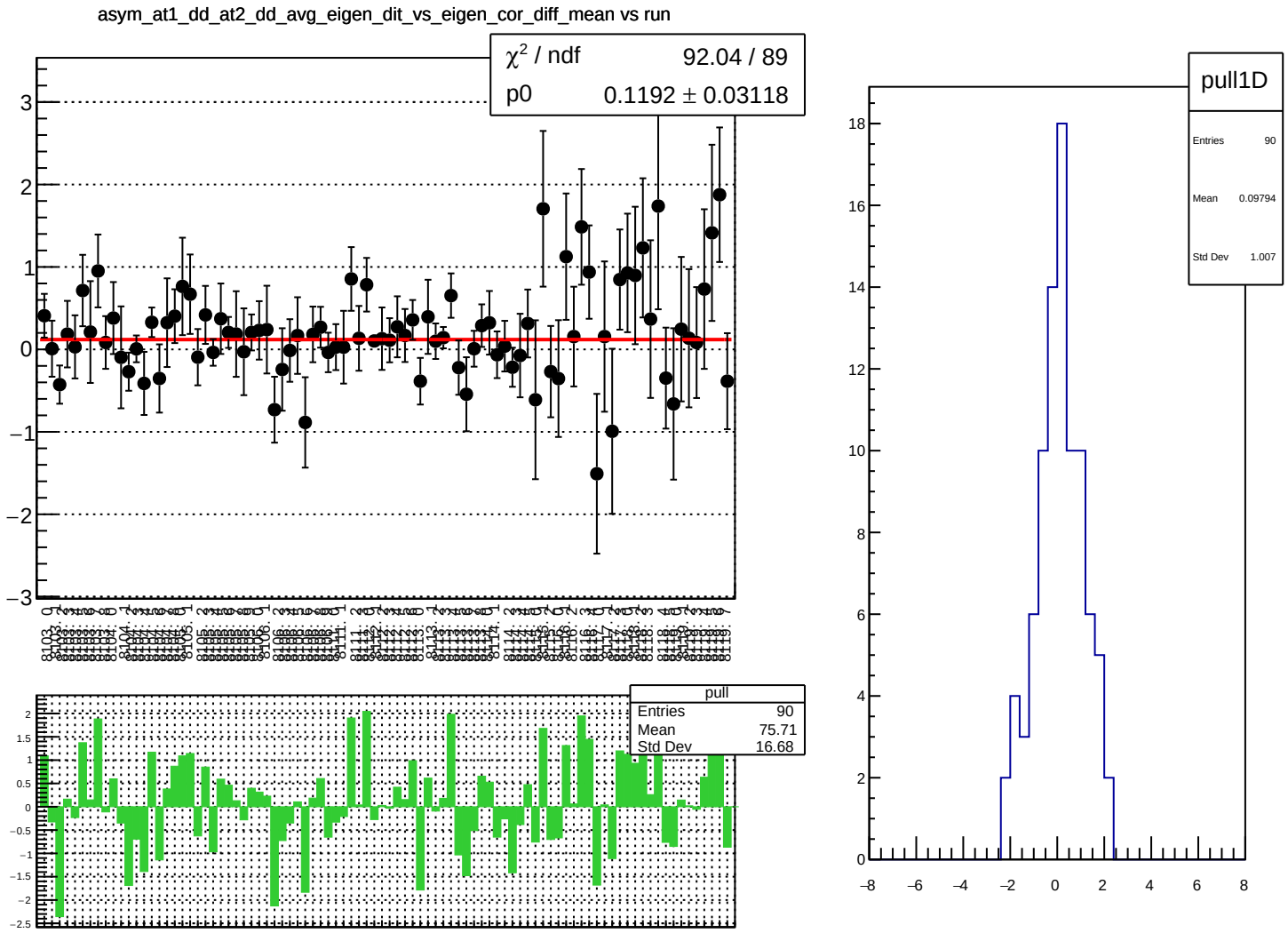

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.015e+05 / 89
p0 23.71 ± 0.02204
120
100
80
60
40
20

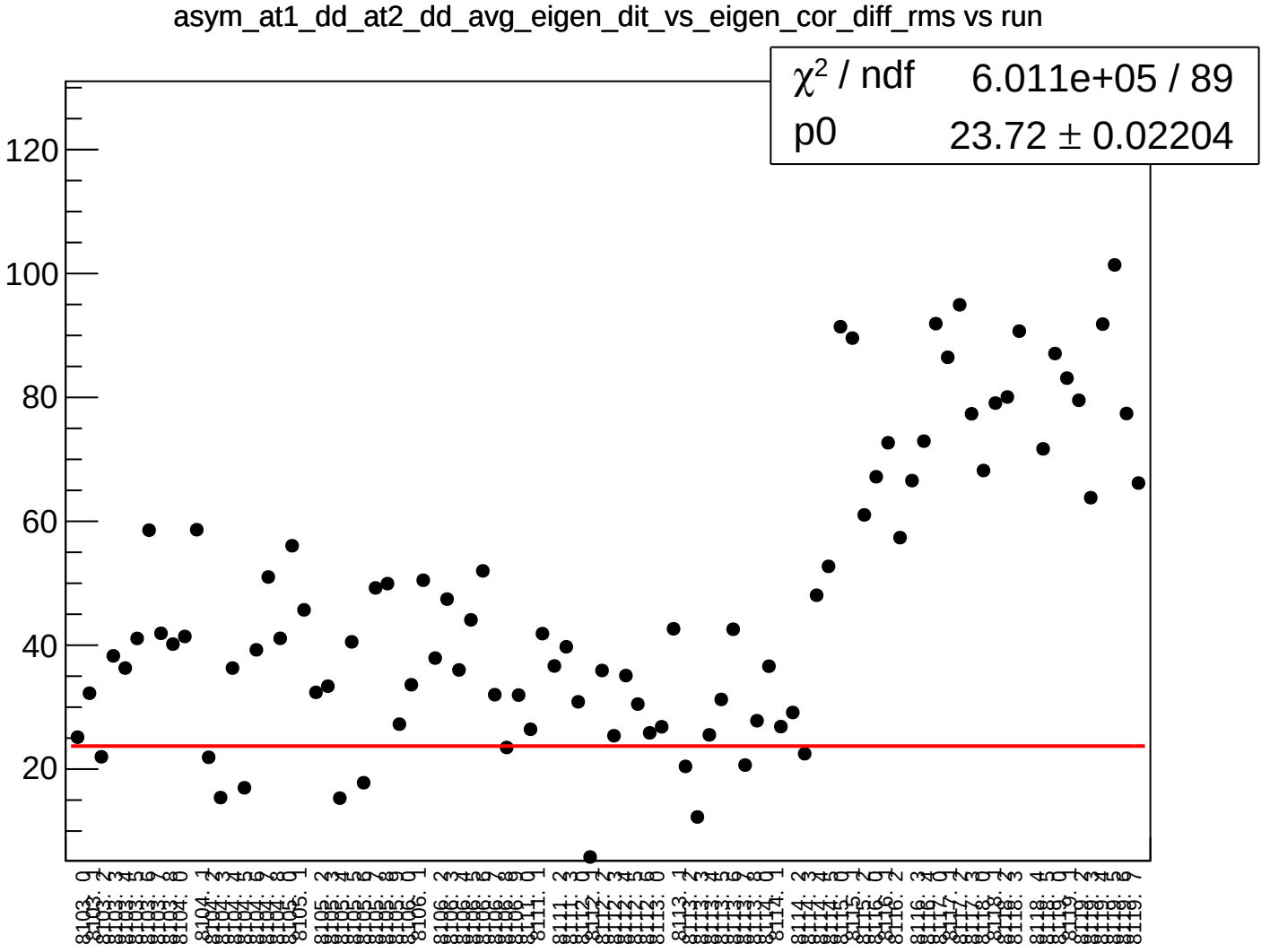

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.65 / 89
p0 −2.682e−05 ± 1.109e−05
pull
Entries 90
Mean 1504
Std Dev 0
pull1D
Entries 90
Mean −0.003143
Std Dev 0.9869

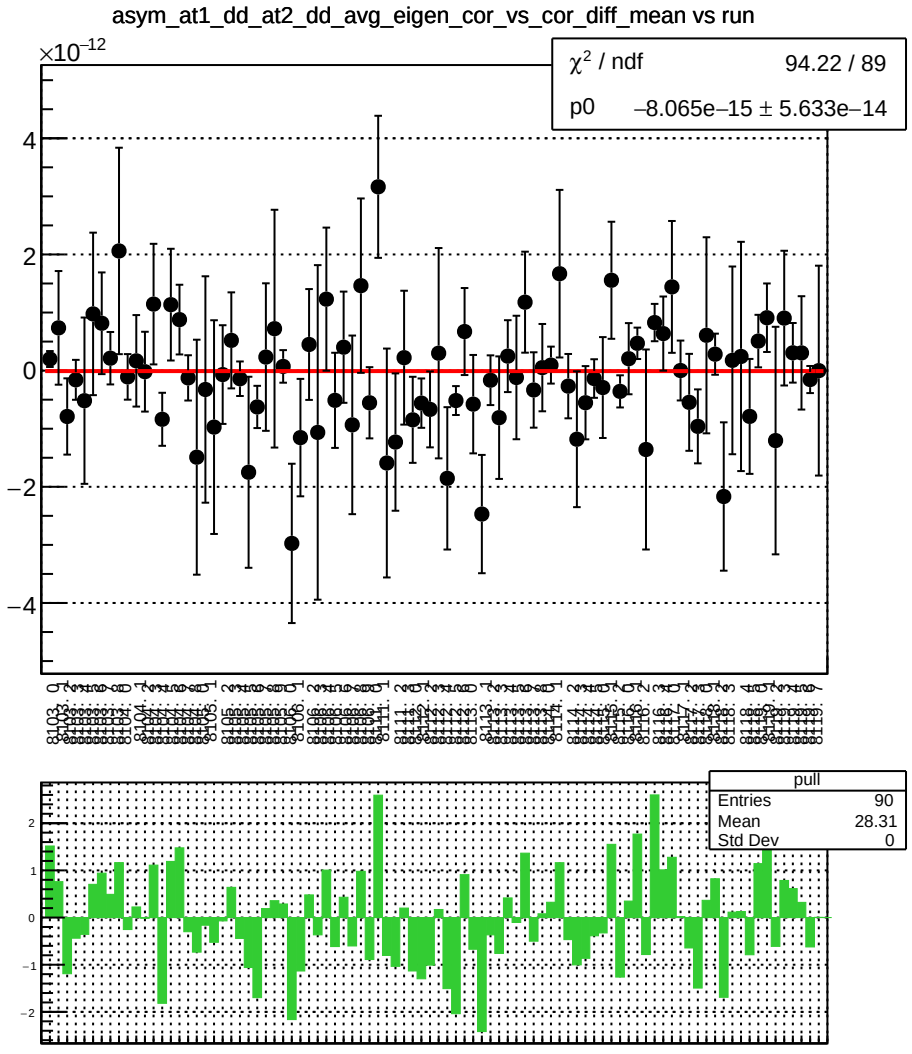

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2752 / 89
p0 0.01039 ± 7.841e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095

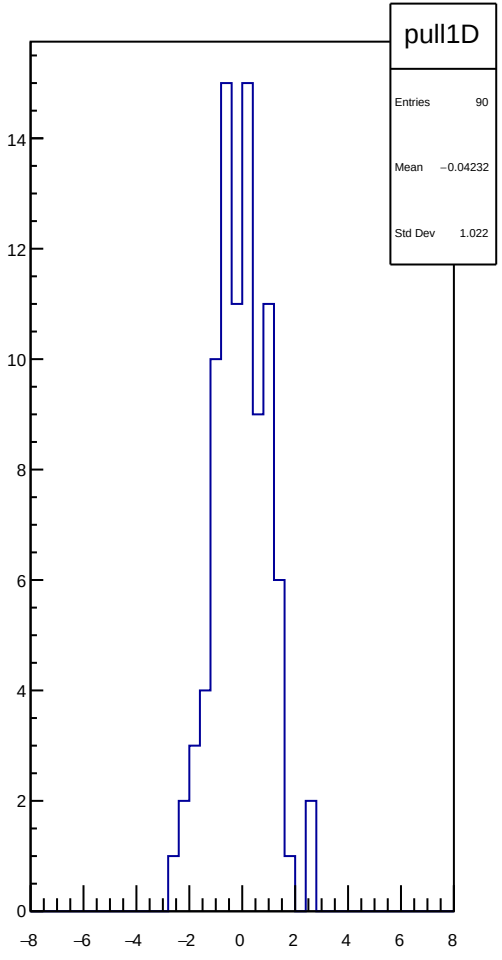

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.04 / 89
p0 0.1192 ± 0.03118
pull
Entries 90
Mean 75.71
Std Dev 16.68
pull1D
Entries 90
Mean 0.09794
Std Dev 1.007

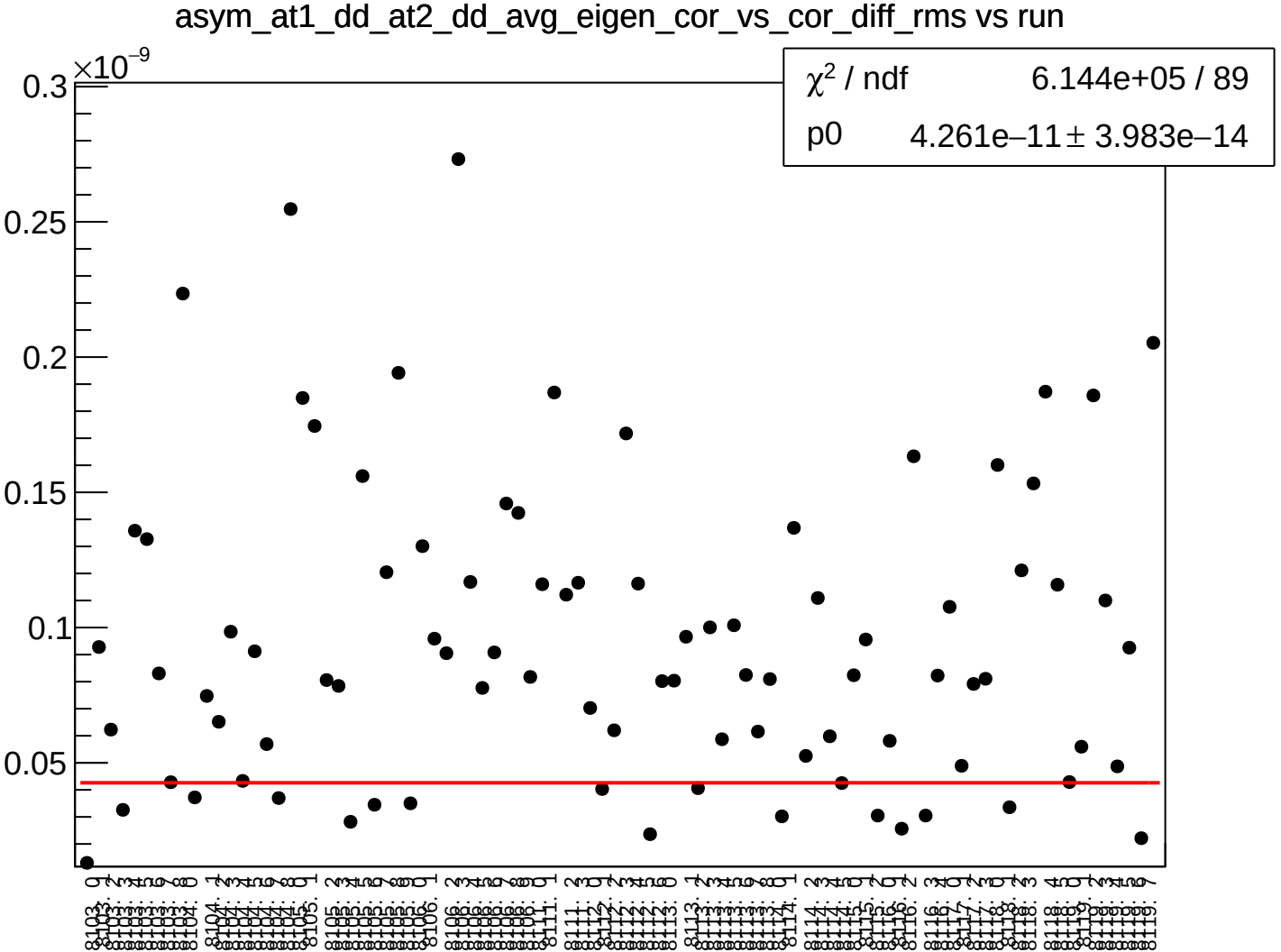

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.011e+05 / 89
p0 23.72 ± 0.02204
120
100
80
60
40
20

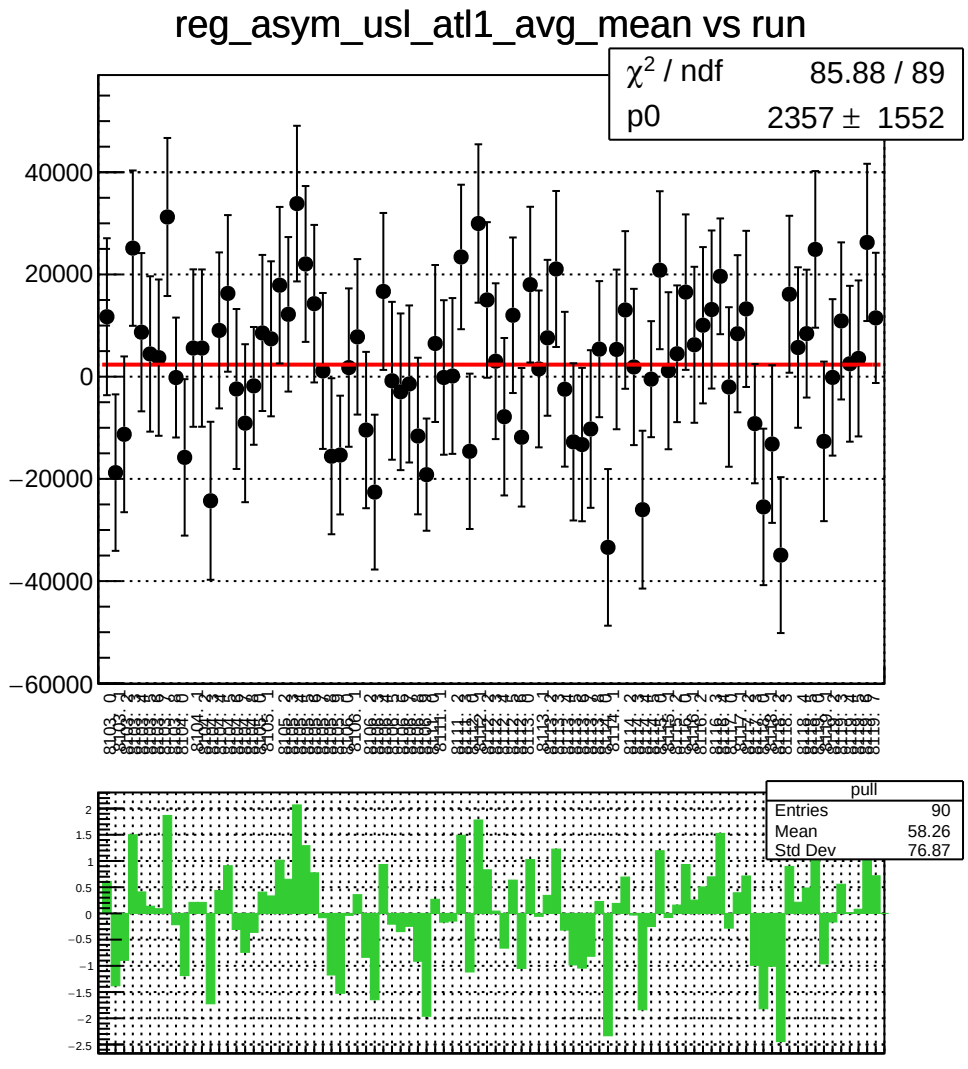

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.04 / 89
p0 0.1192 ± 0.03118
pull
Entries 90
Mean 75.71
Std Dev 16.68
pull1D
Entries 90
Mean 0.09794
Std Dev 1.007

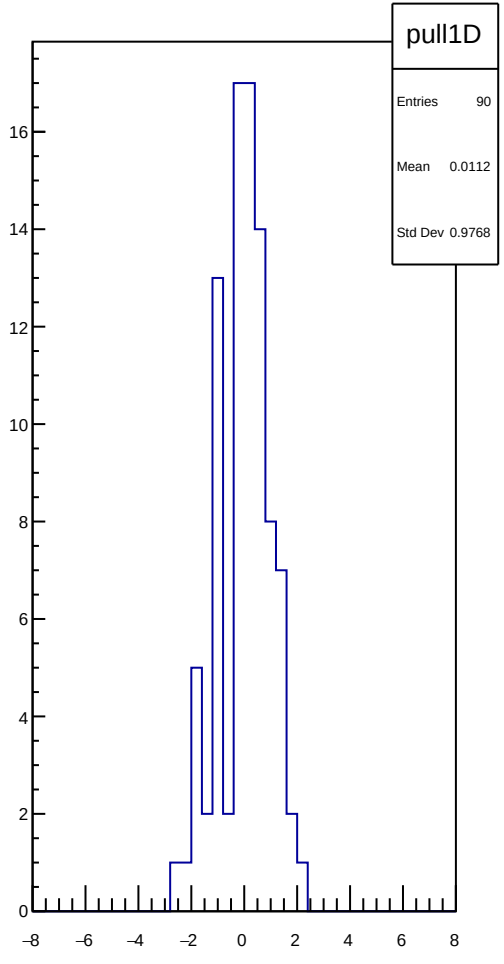

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.011e+05 / 89
p0 23.72 ± 0.02204
120
100
80
60
40
20

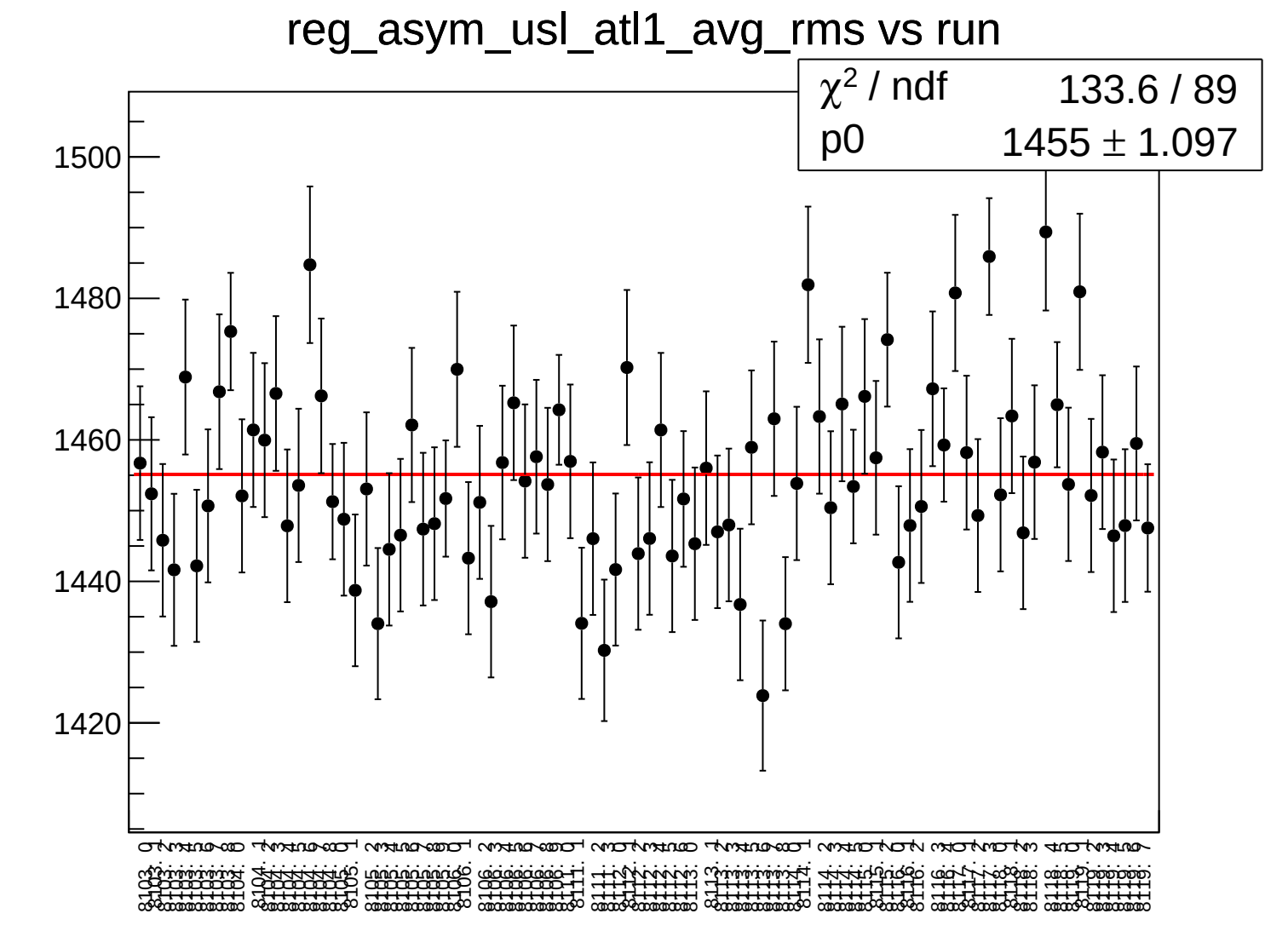

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.22 / 89
p0 −8.065e−15 ± 5.633e−14
pull
Entries 90
Mean 28.31
Std Dev 0

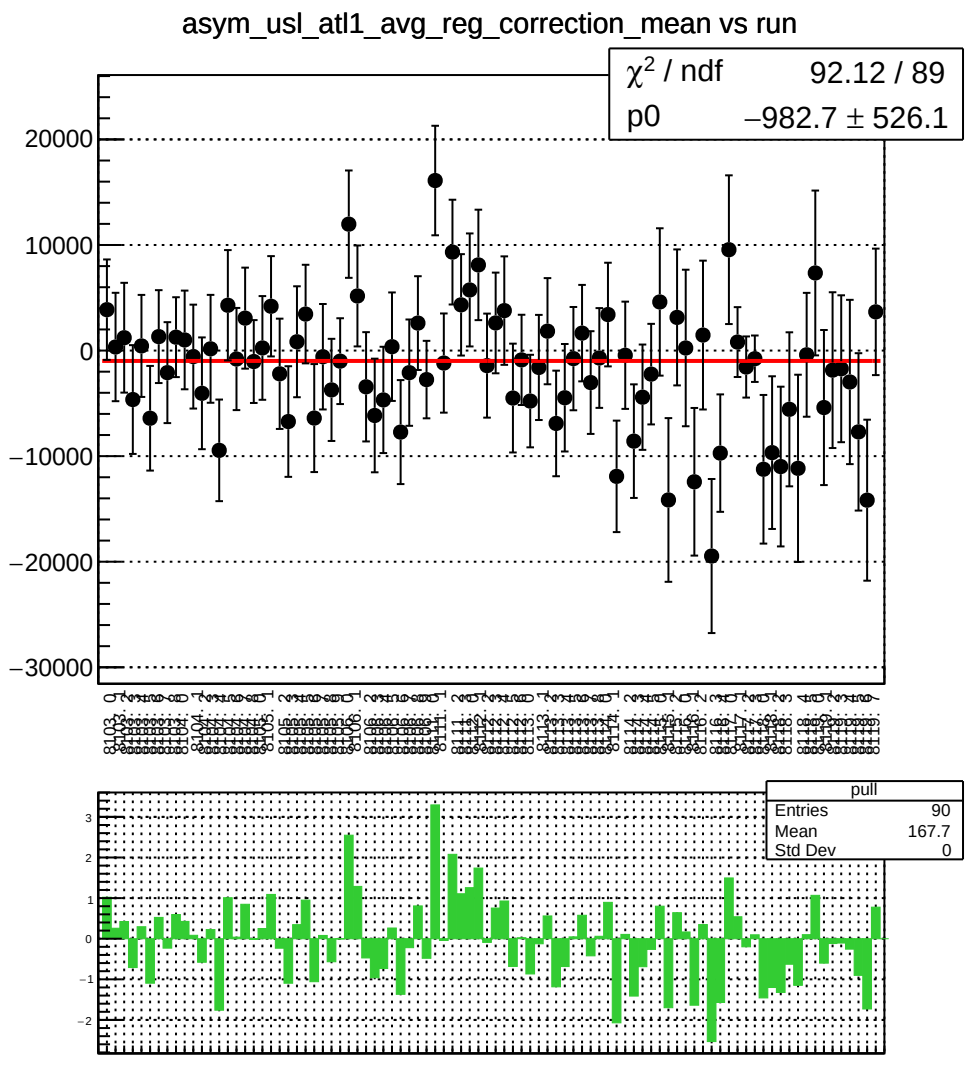

pull1D
Entries 90
Mean −0.04232
Std Dev 1.022

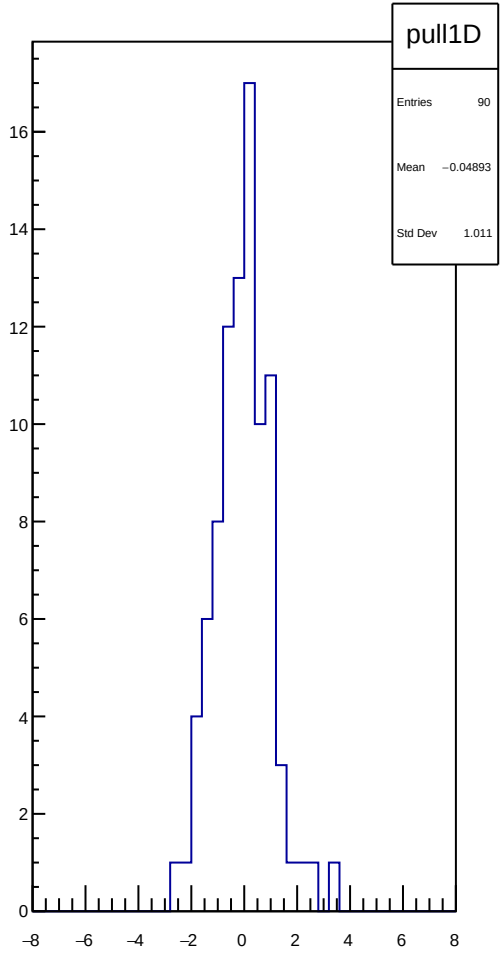

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.144e+05 / 89
p0 4.261e−11 ± 3.983e−14

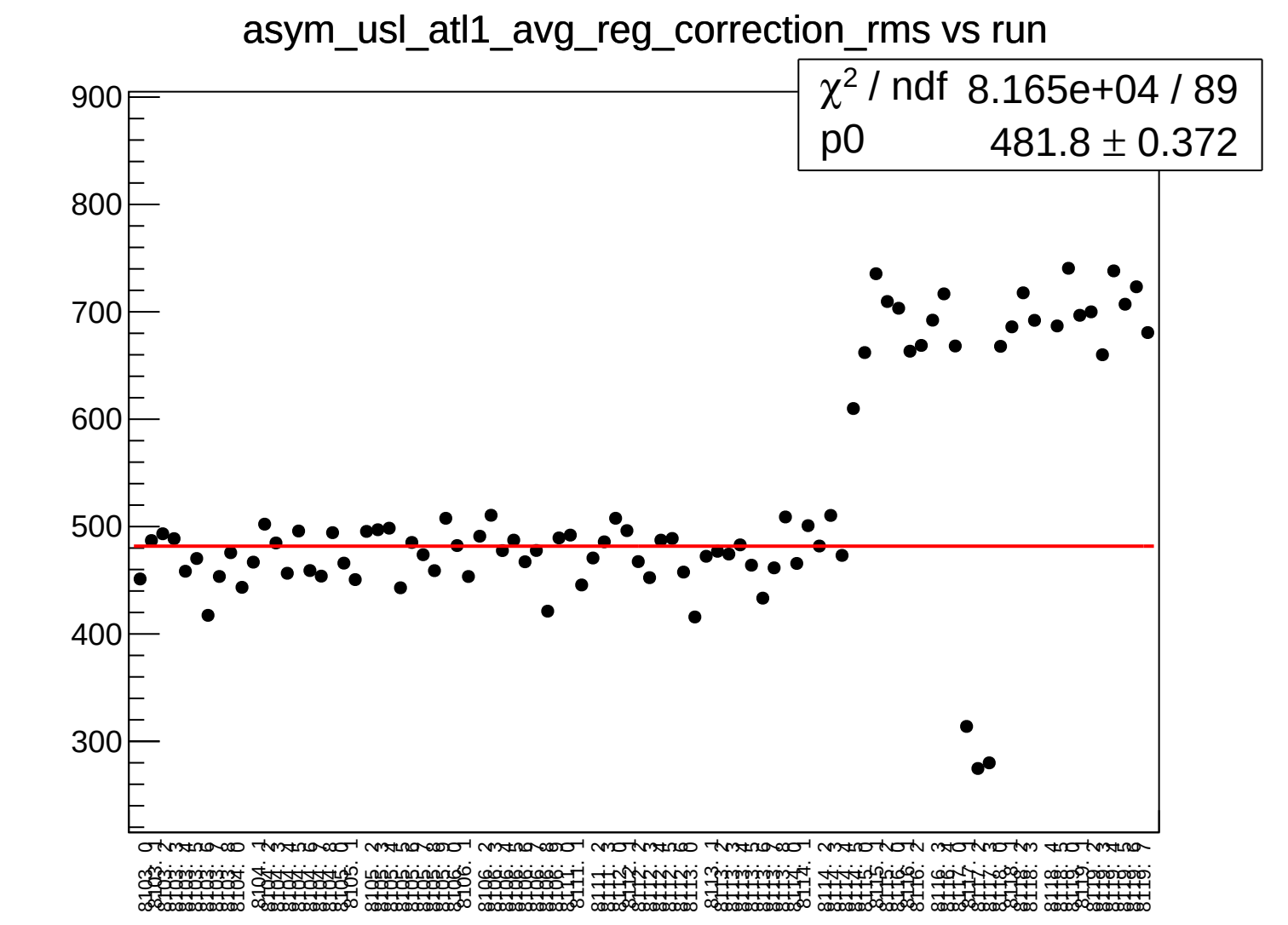

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 85.88 / 89
p0 2357 ± 1552
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 58.26
Std Dev 76.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

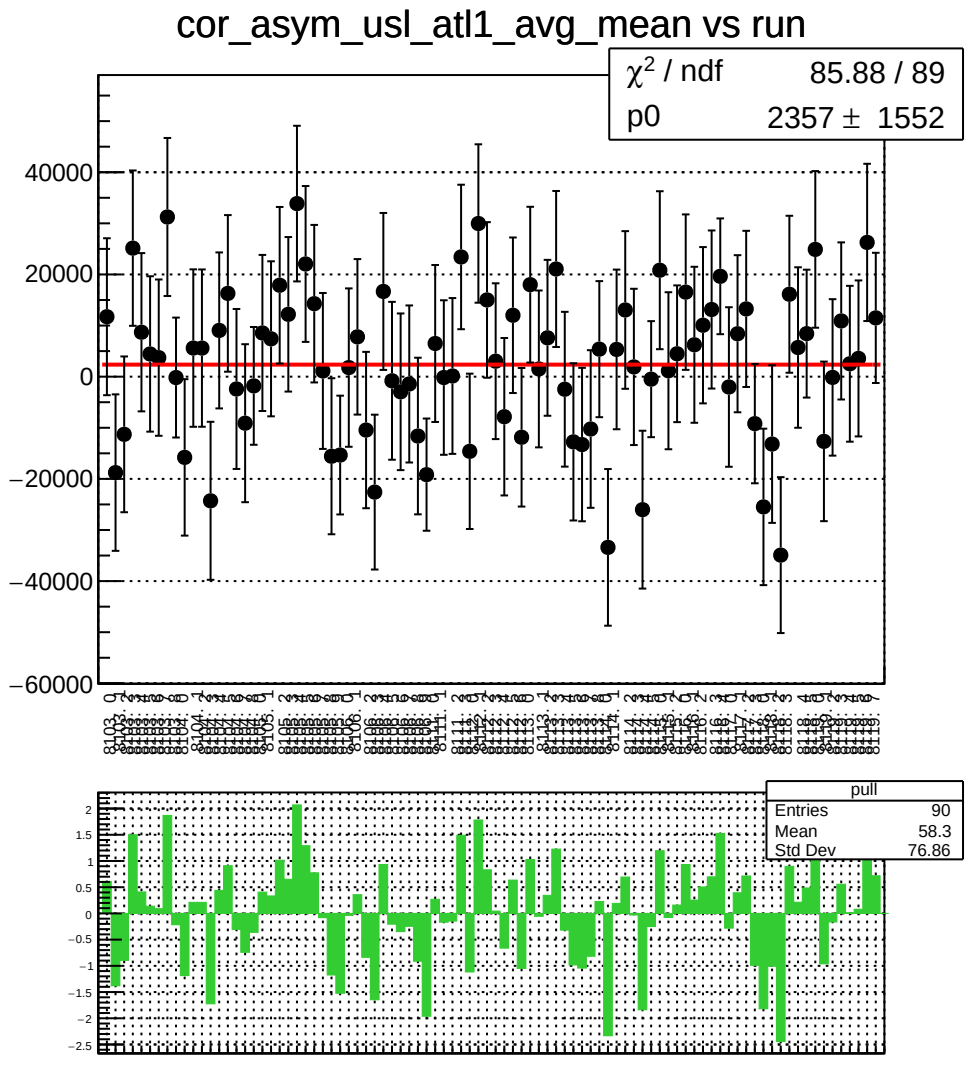

pull1D
Entries 90
Mean 0.0112
Std Dev 0.9768
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

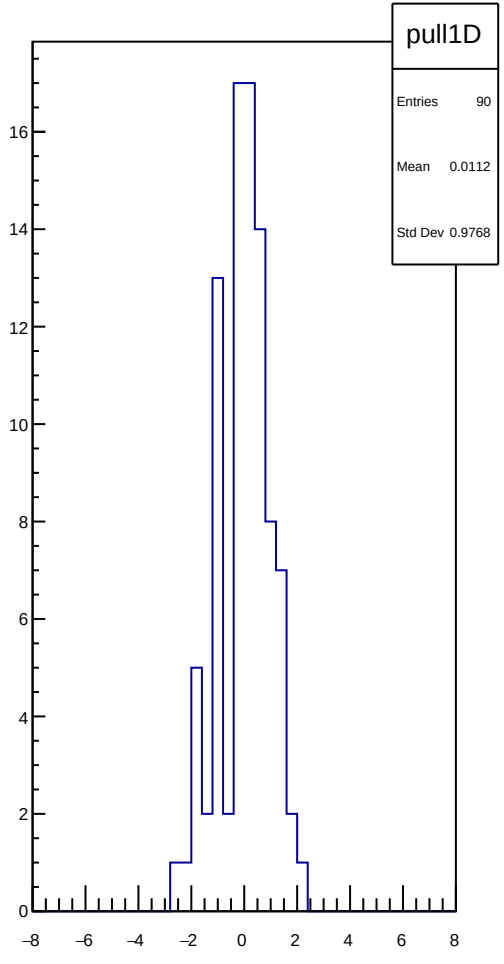

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 133.6 / 89
p0 1455 ± 1.097
1500
1480
1460
1440
1420


asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 92.12 / 89
p0 −982.7 ± 526.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 167.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.04893
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 8.165e+04 / 89
p0 481.8 ± 0.372
900
800
700
600
500
400
300


cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 85.88 / 89
p0 2357 ± 1552
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 58.3
Std Dev 76.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.0112
Std Dev 0.9768
16
14
12
10
8
6
4
2
0
−8
−6
−4
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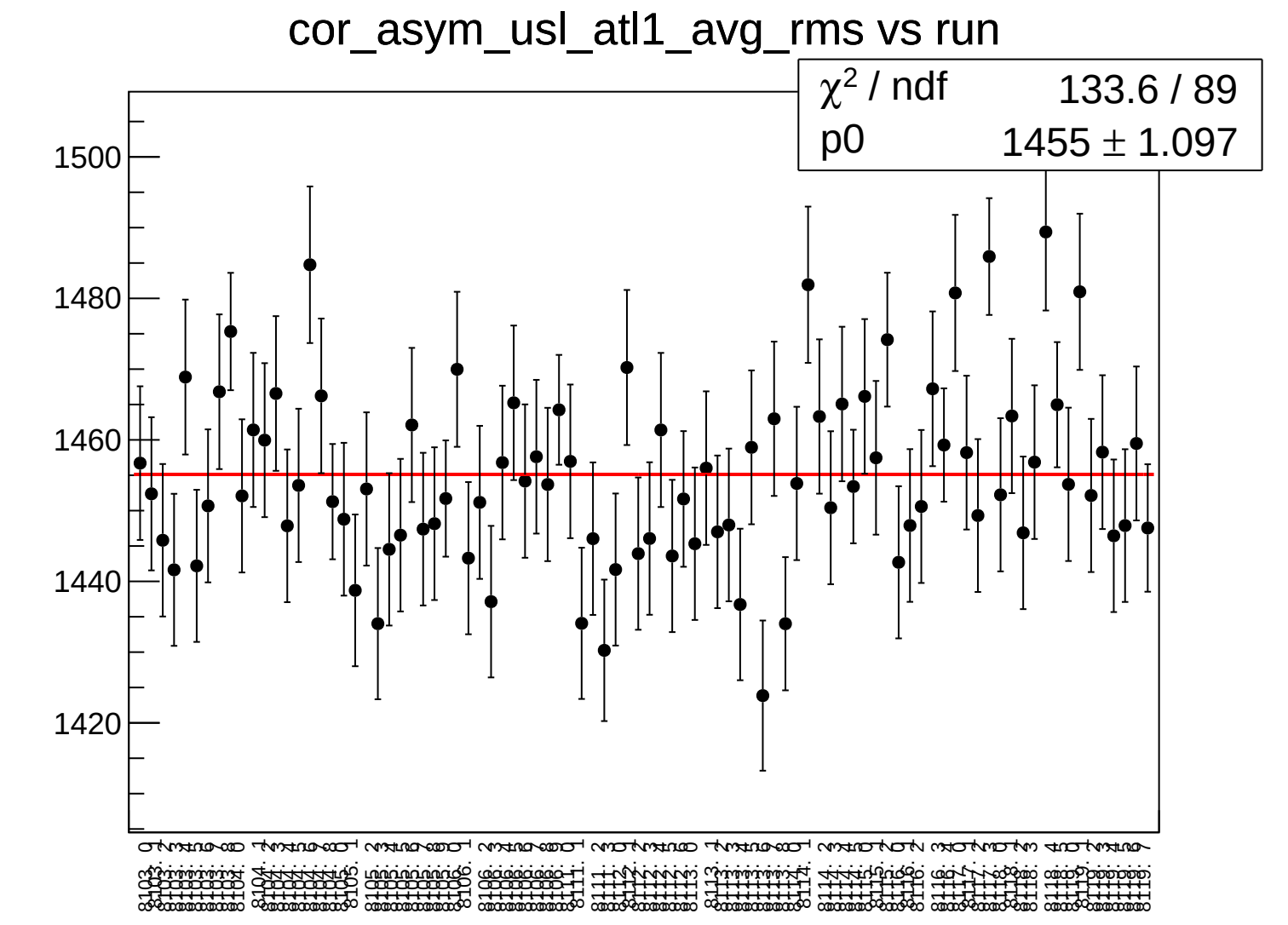
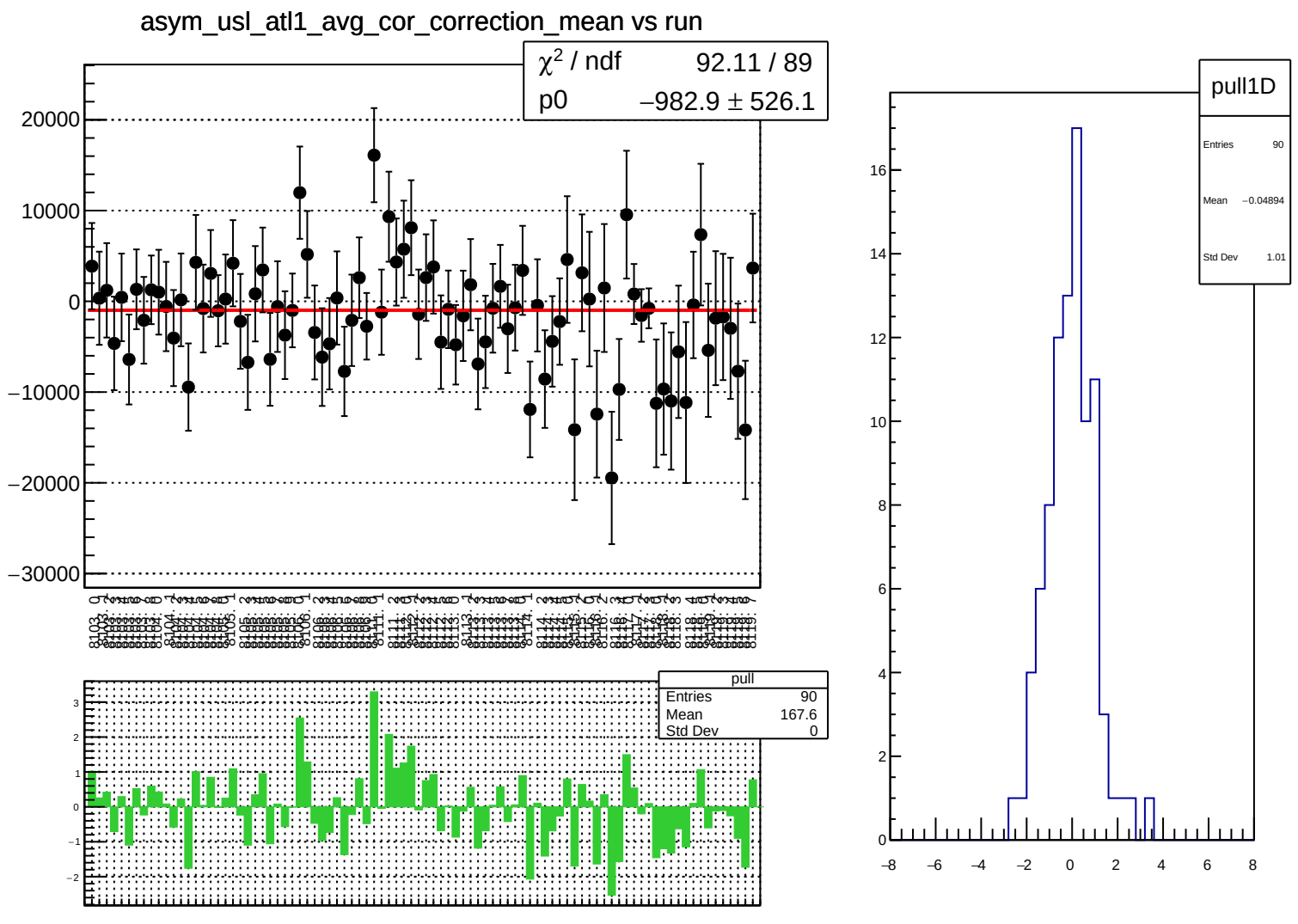
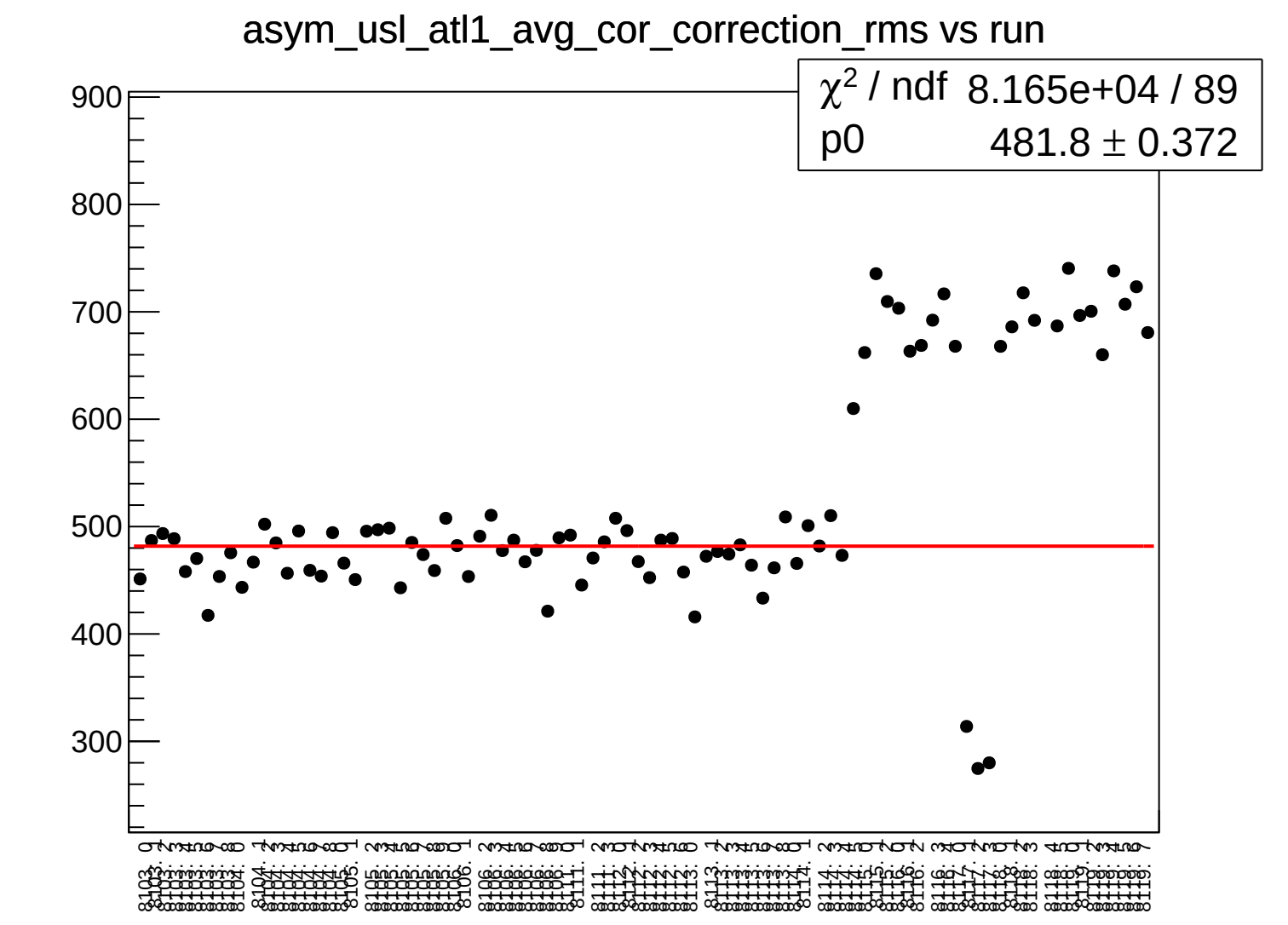
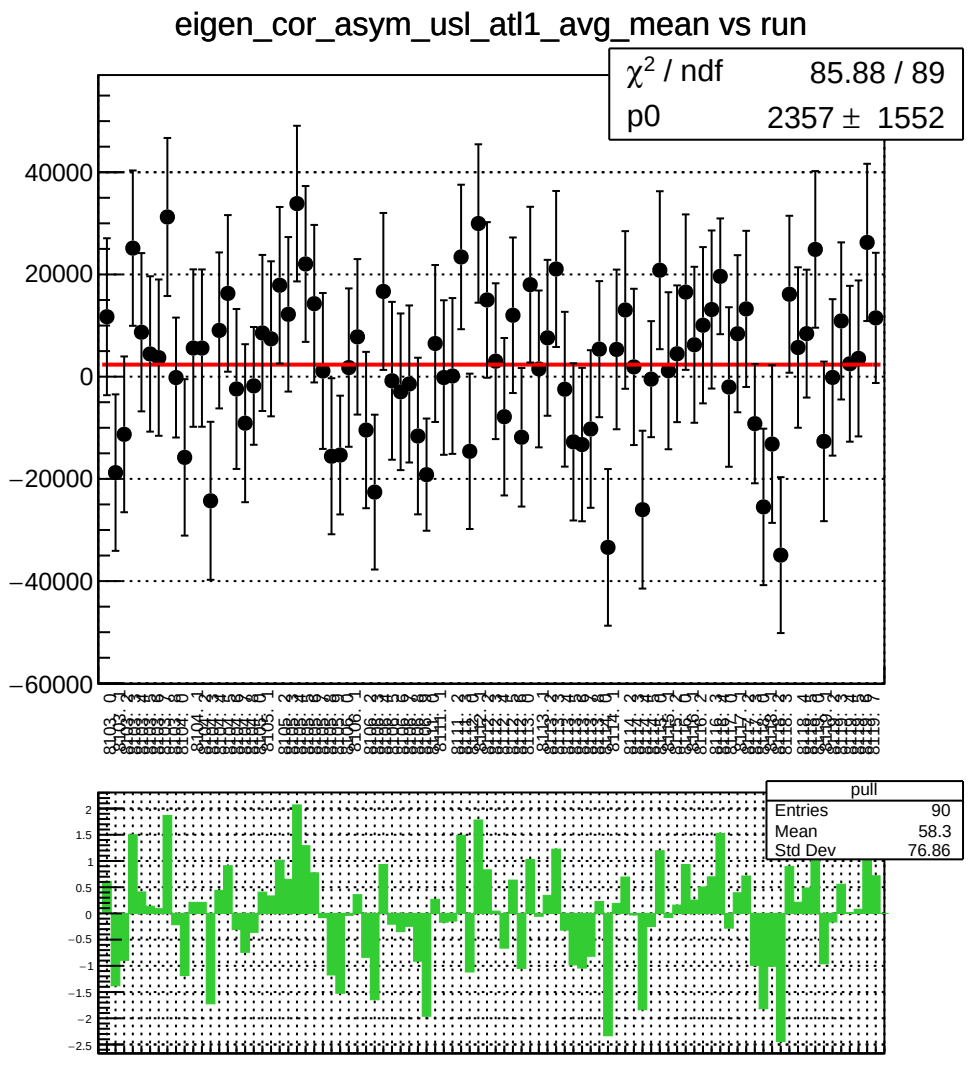
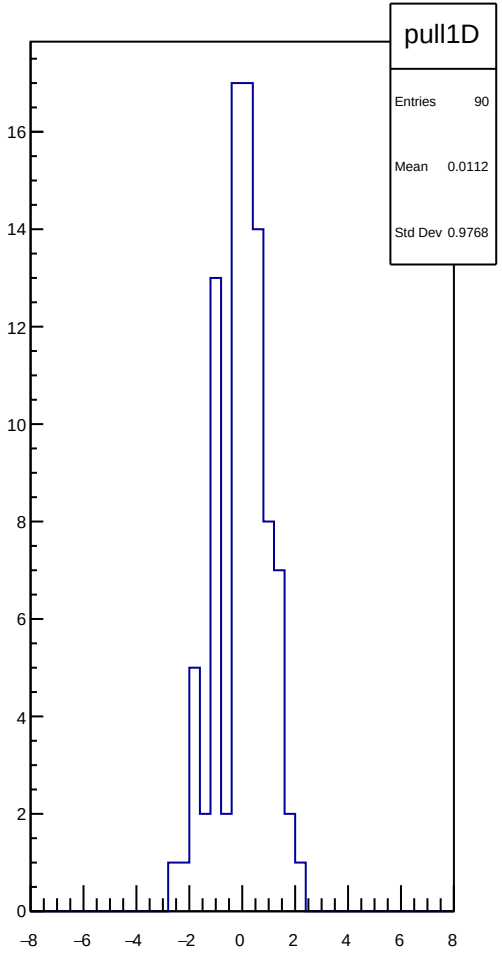
0
2
4
6
8


cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 133.6 / 89
p0 1455 ± 1.097
1500
1480
1460
1440
1420


asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 92.11 / 89
p0 −982.9 ± 526.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 167.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.04894
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ^2 / ndf 8.165e+04 / 89
p0 481.8 ± 0.372
900
800
700
600
500
400
300


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 85.88 / 89
p0 2357 ± 1552
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 58.3
Std Dev 76.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.0112
Std Dev 0.9768
16
14
12
10
8
6
4
2
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−8
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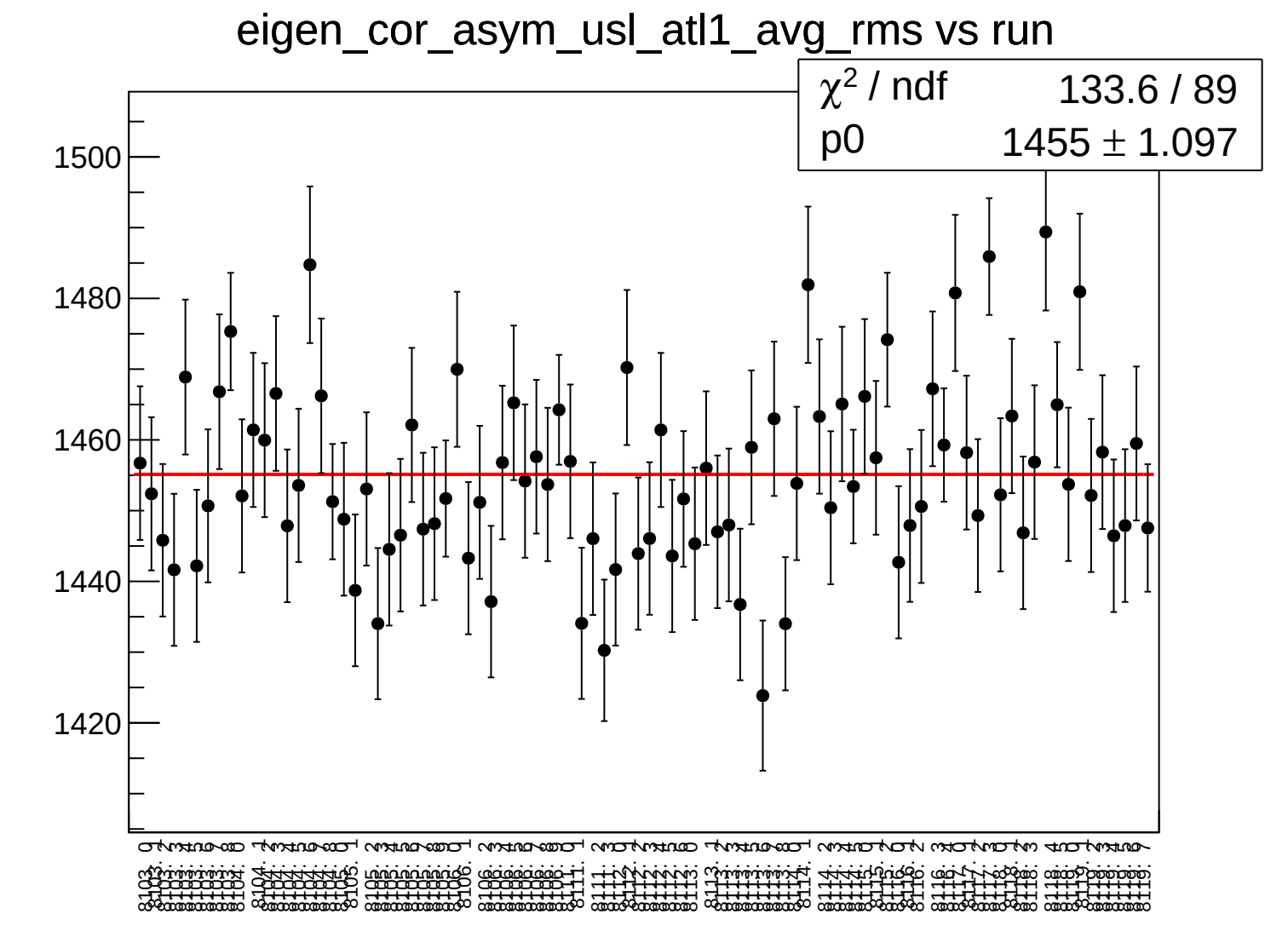
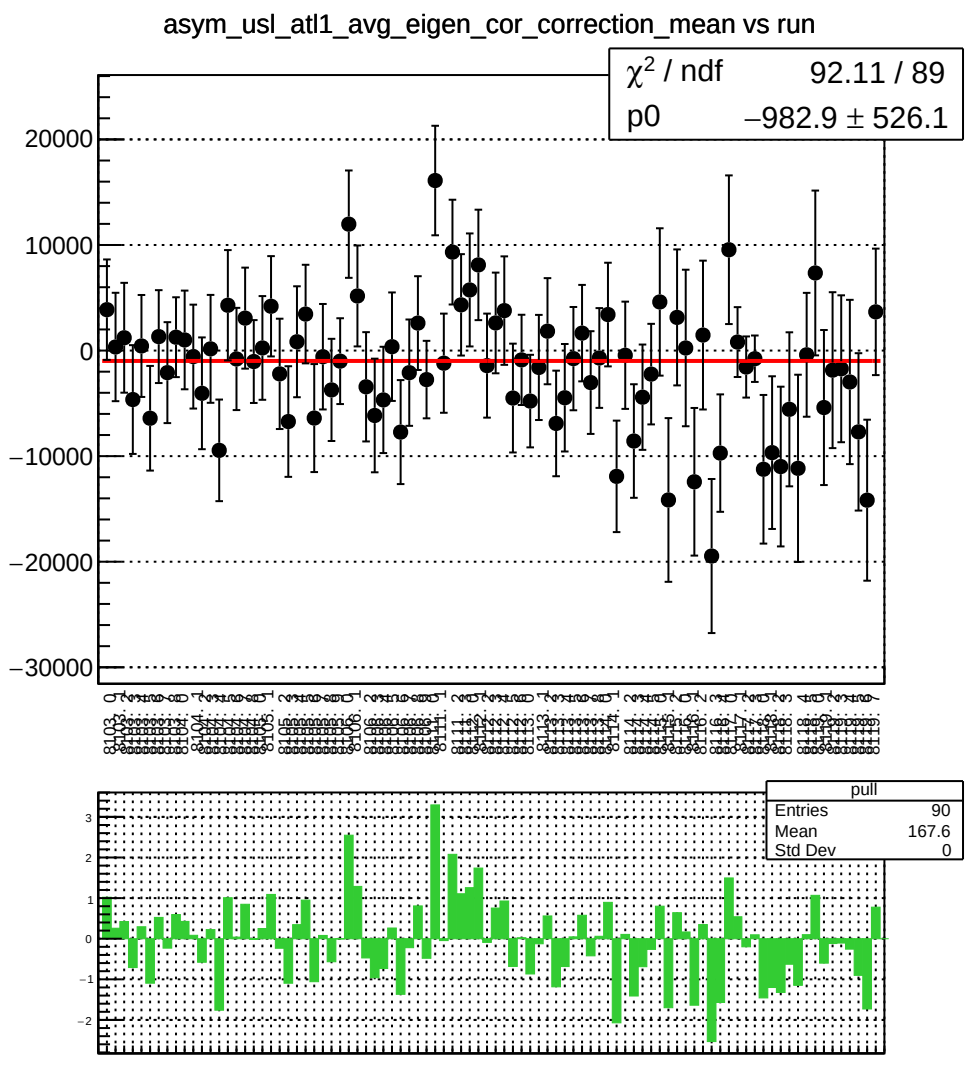
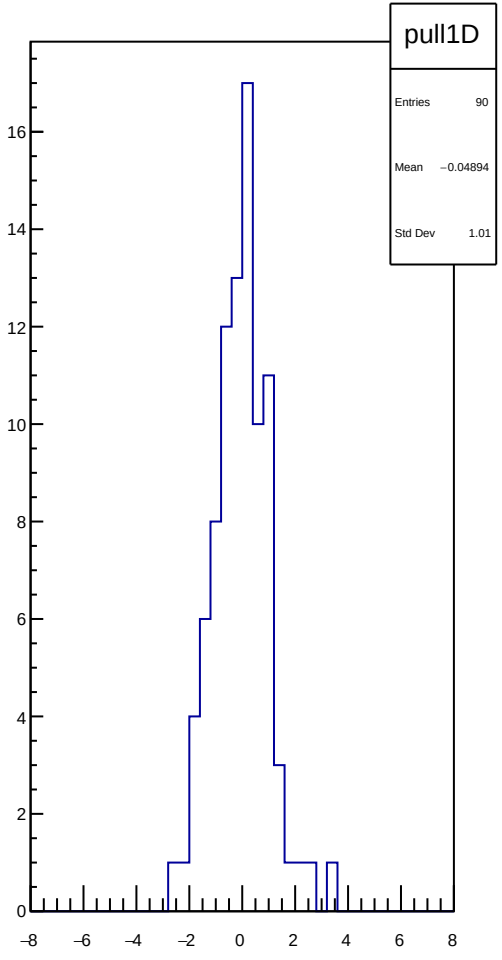
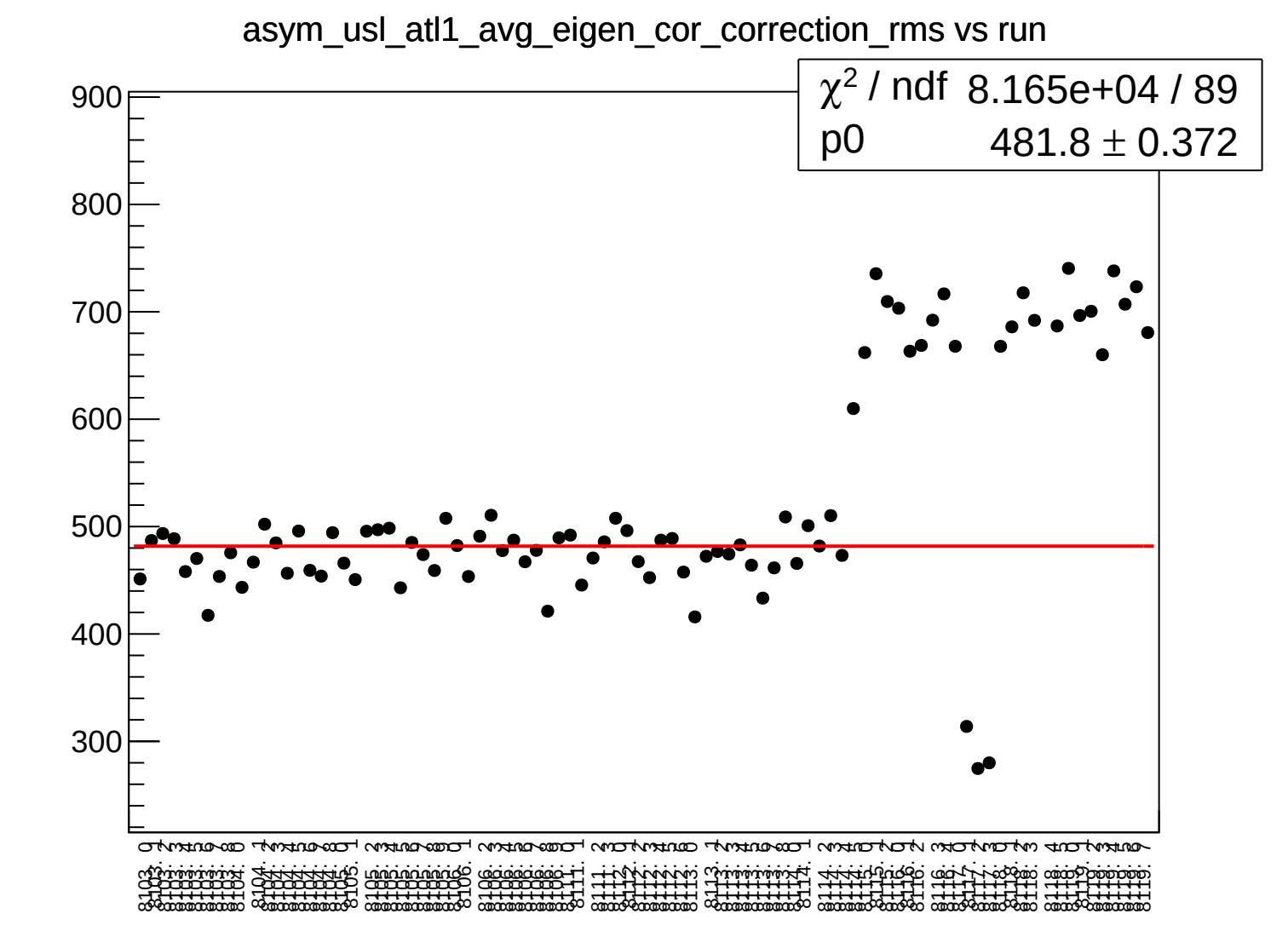
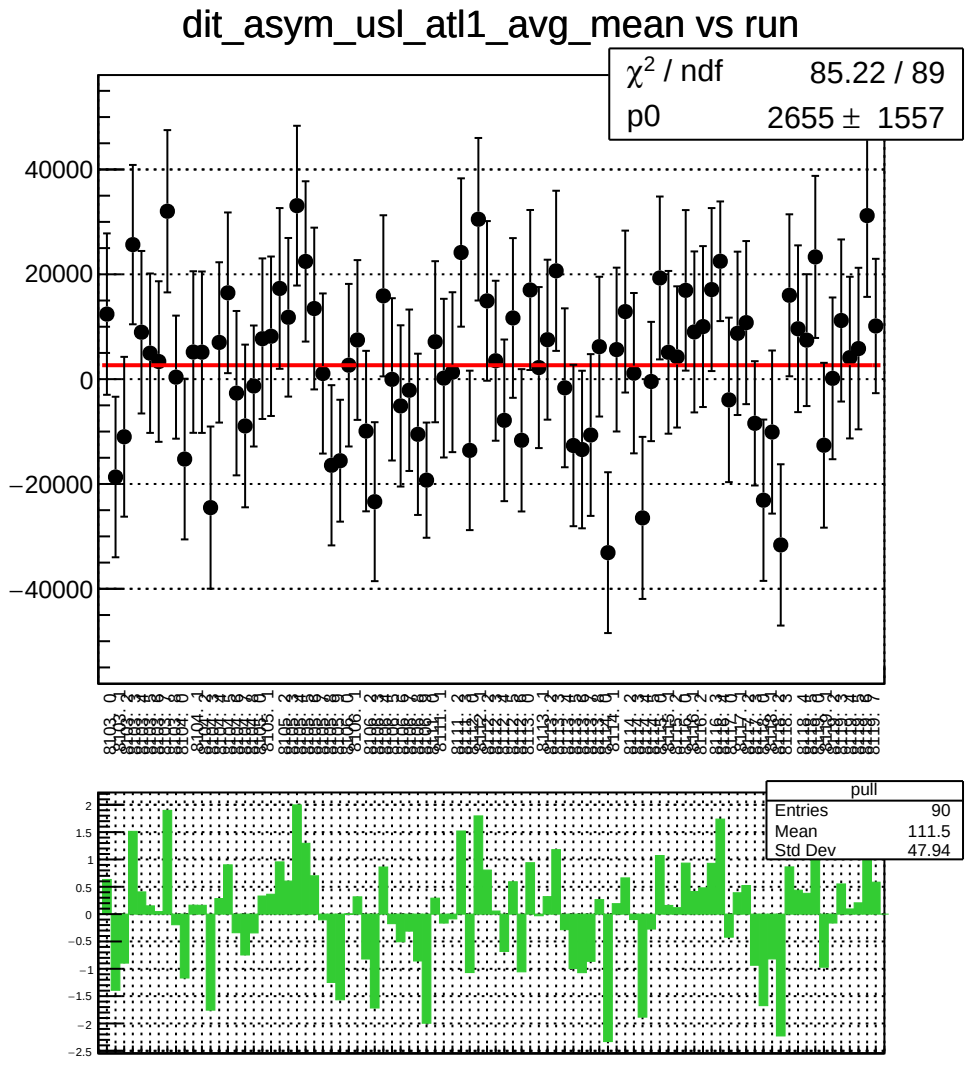
2
4
6
8

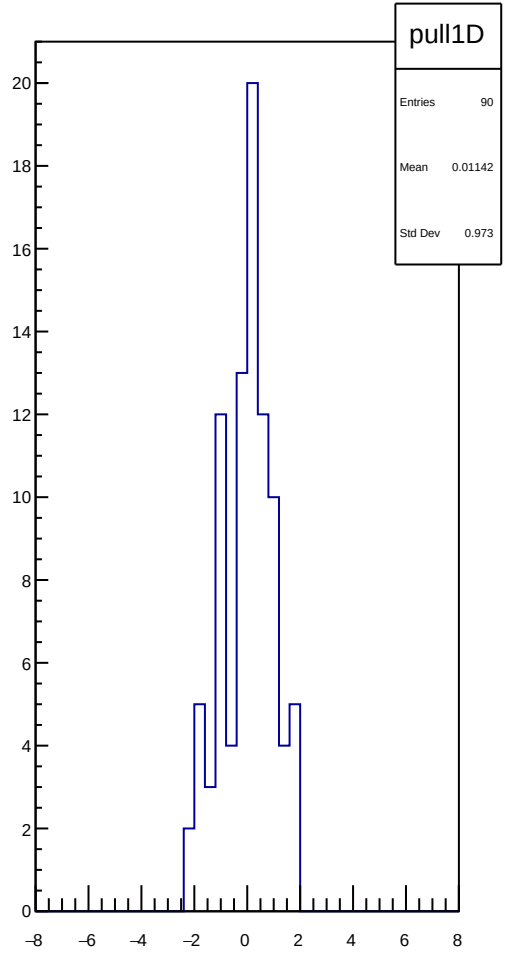

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 133.6 / 89
p0 1455 ± 1.097
1500
1480
1460
1440
1420

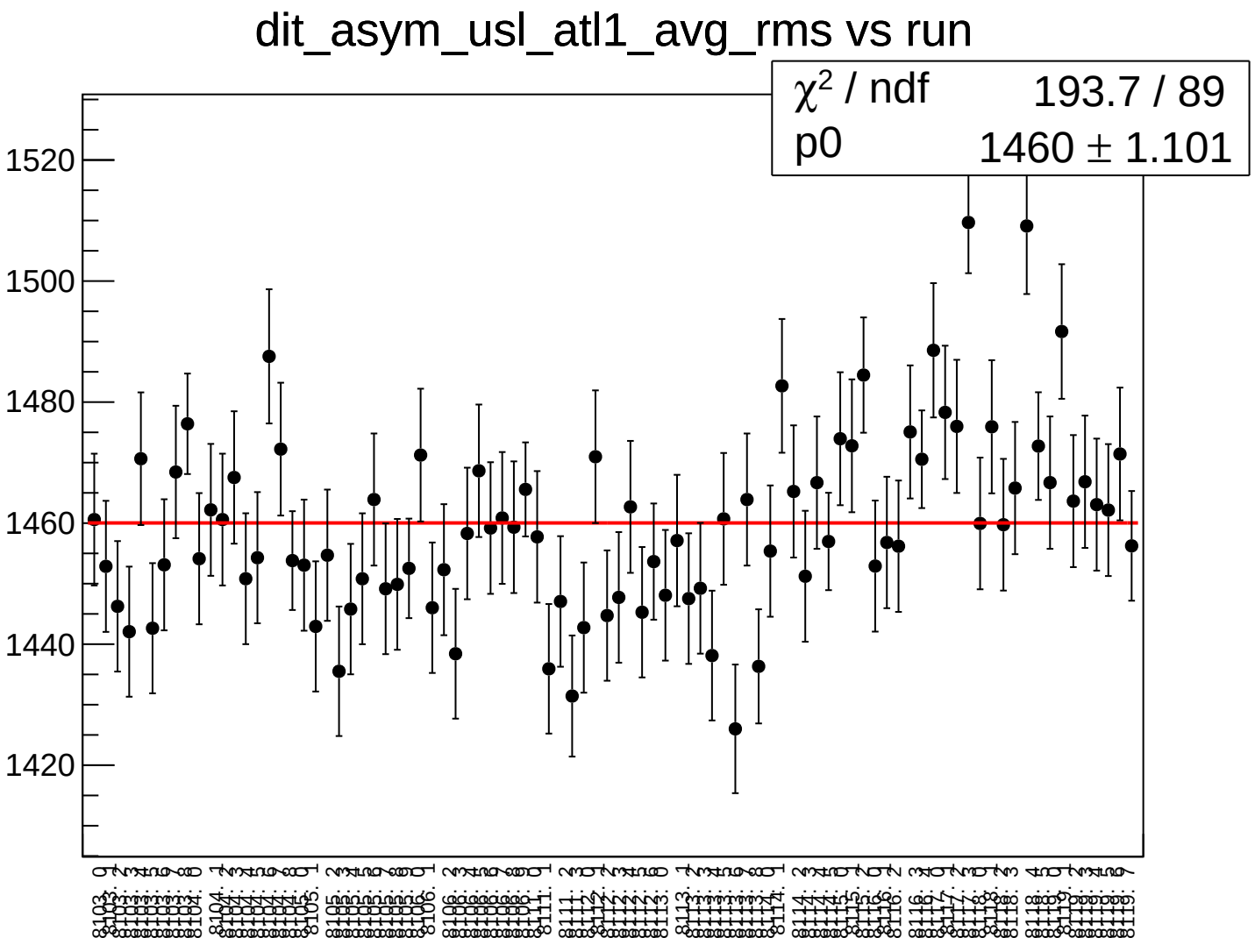

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.11 / 89
p0 −982.9 ± 526.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 167.6
Std Dev 0
3
2
1
0
−1
−2

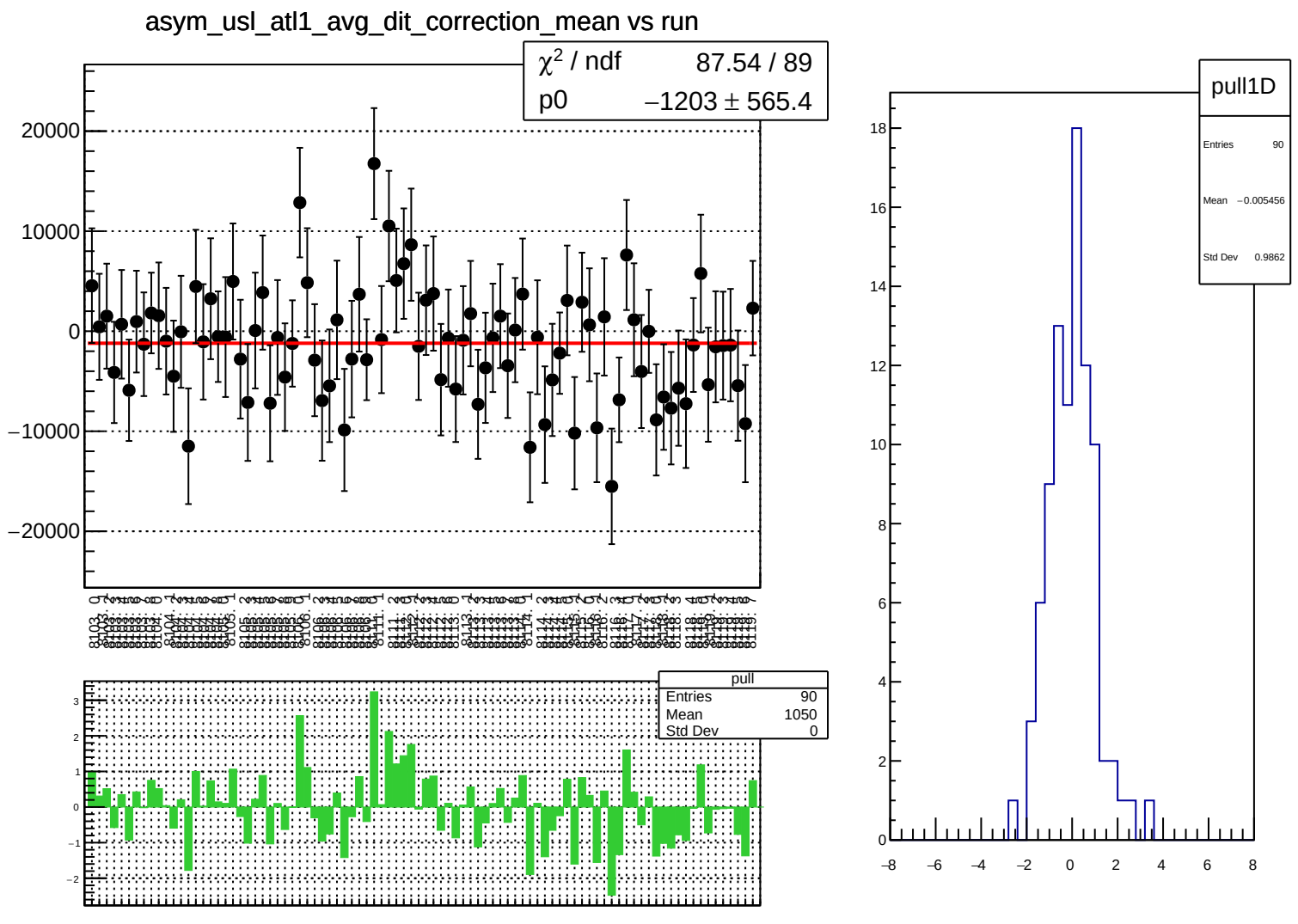

pull1D
Entries 90
Mean −0.04894
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

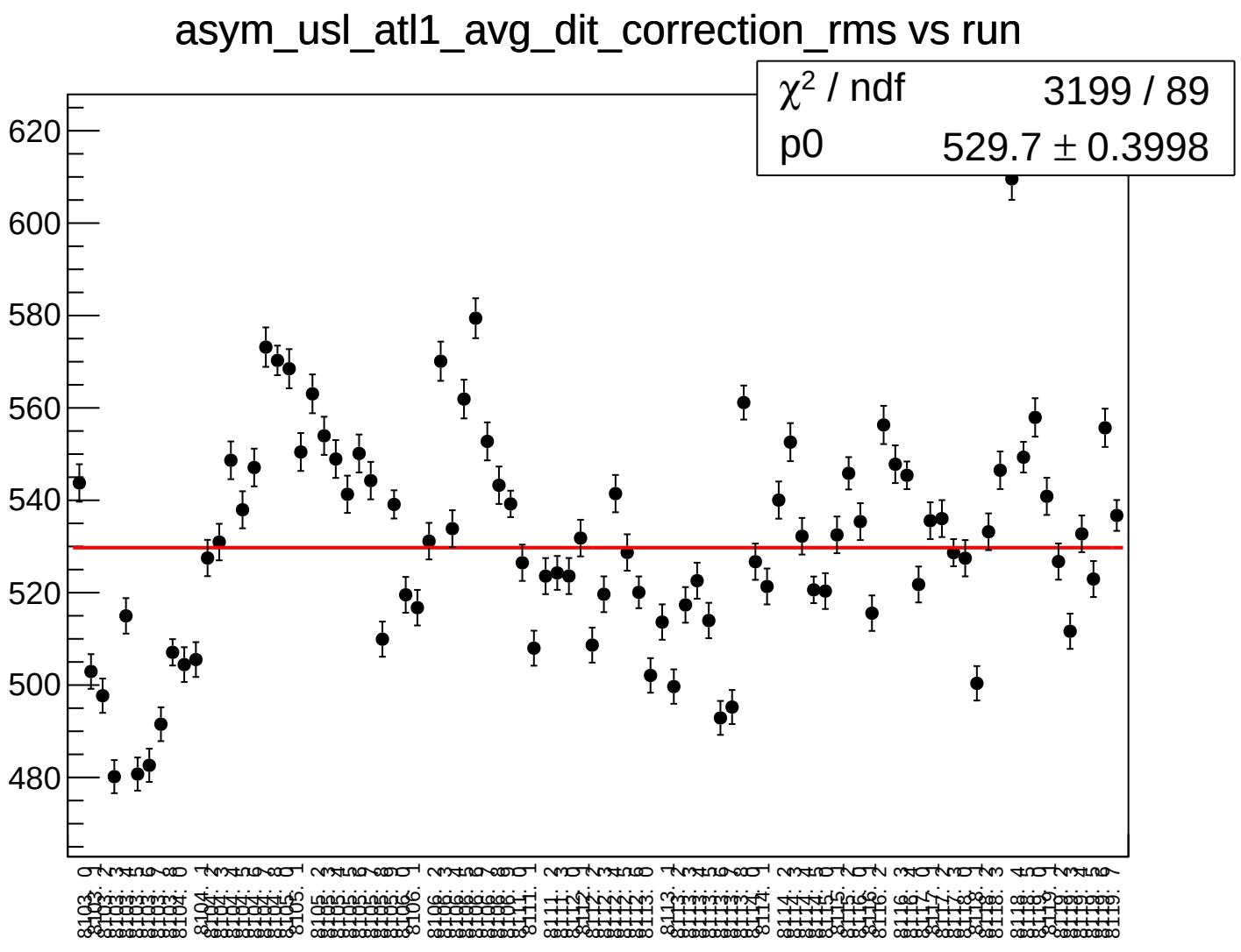

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 8.165e+04 / 89
p0 481.8 ± 0.372
900
800
700
600
500
400
300

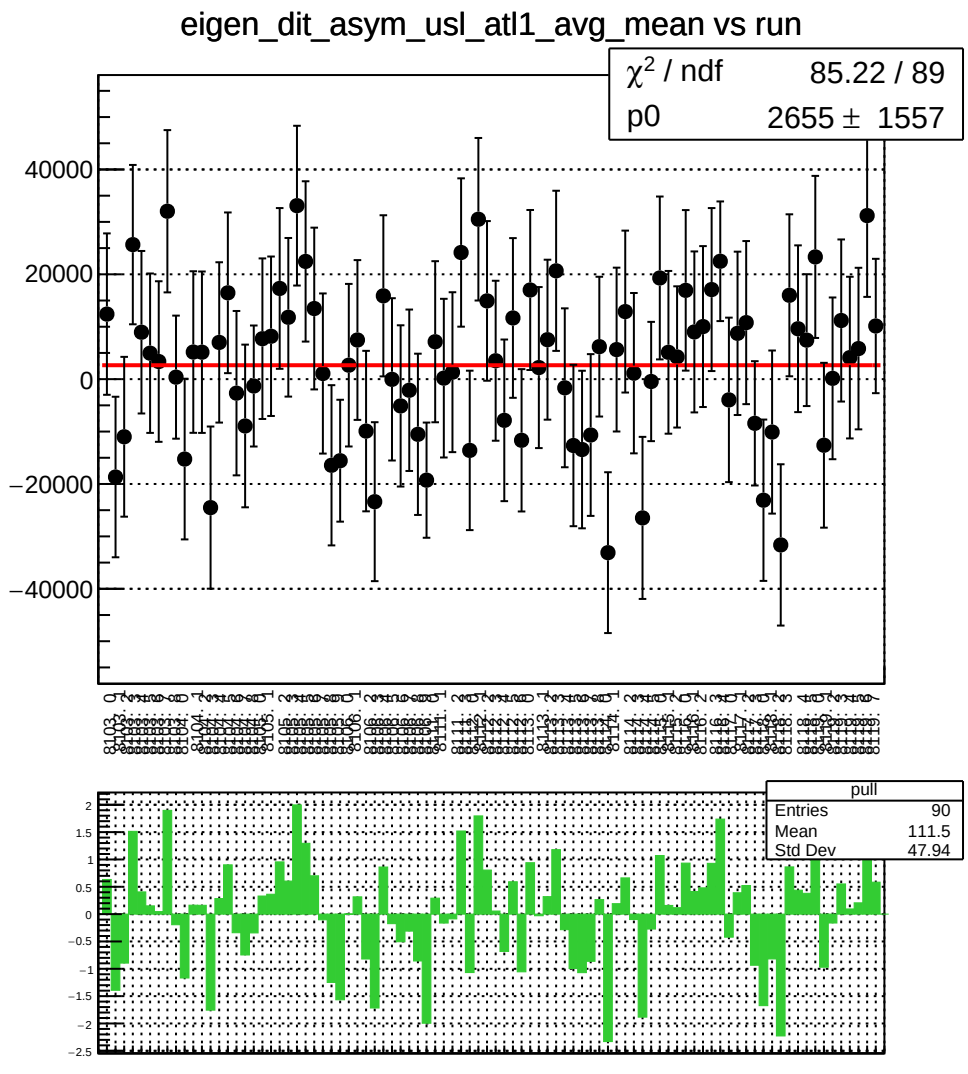

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 85.22 / 89
p0 2655 ± 1557
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 111.5
Std Dev 47.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

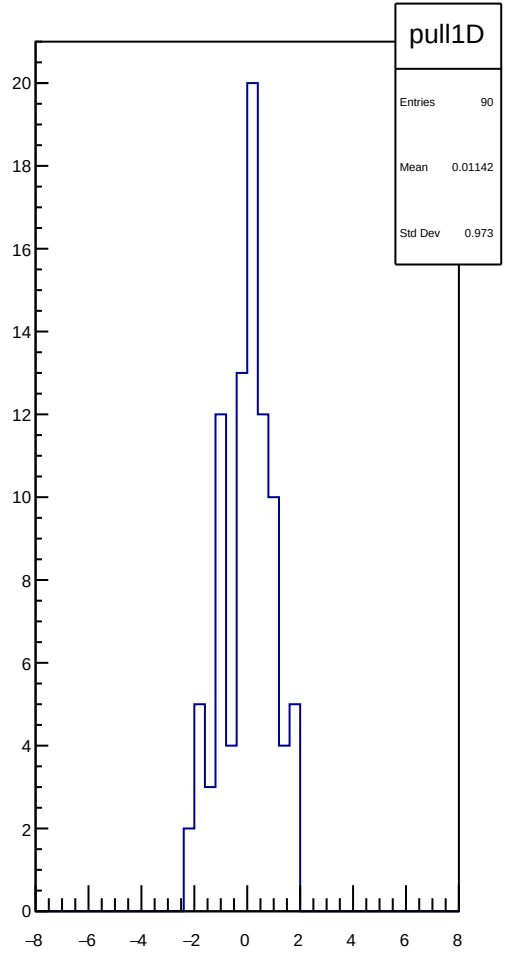

pull1D
Entries 90
Mean 0.01142
Std Dev 0.973
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

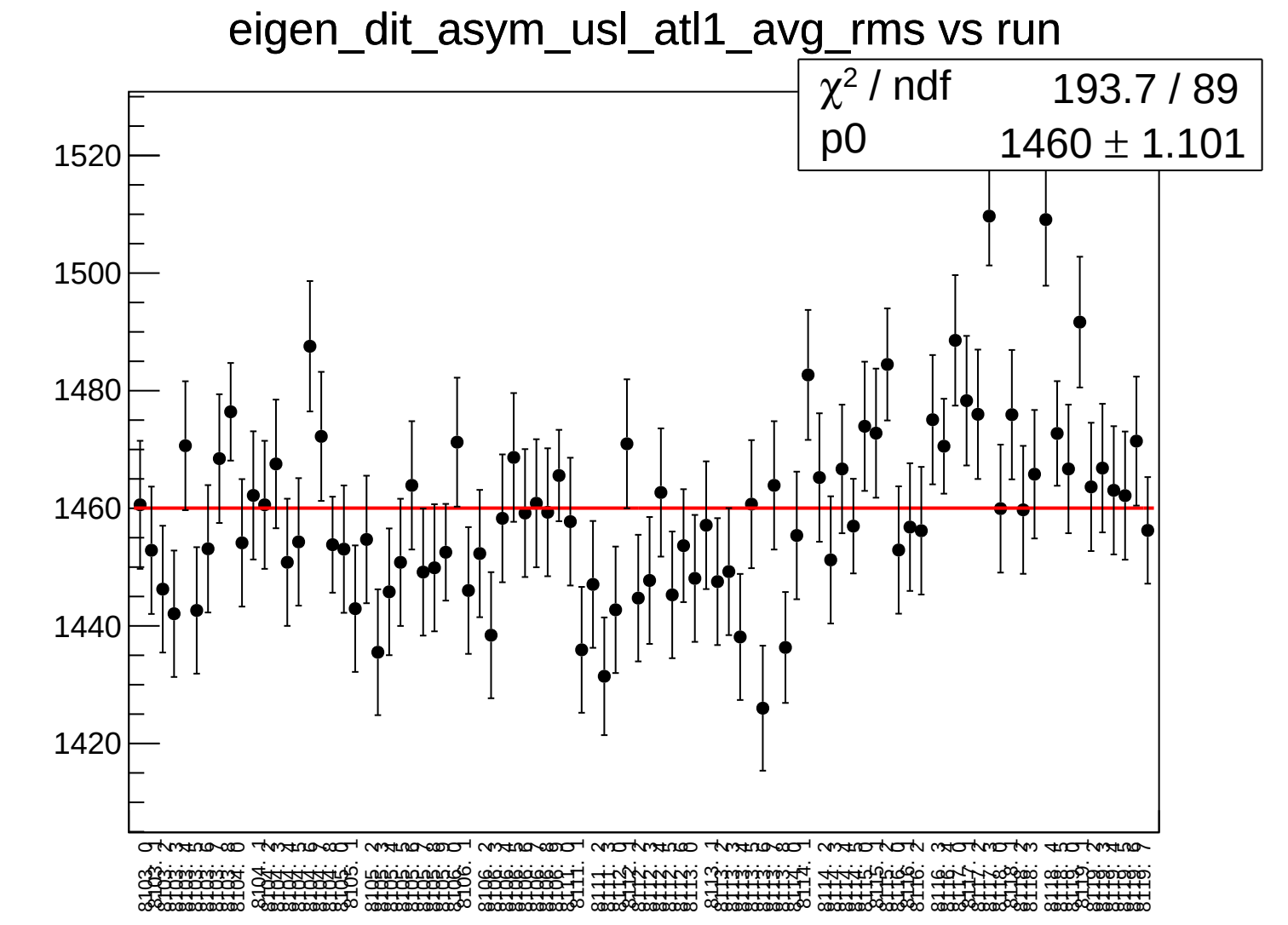

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 193.7 / 89
p0 1460 ± 1.101
1520
1500
1480
1460
1440
1420

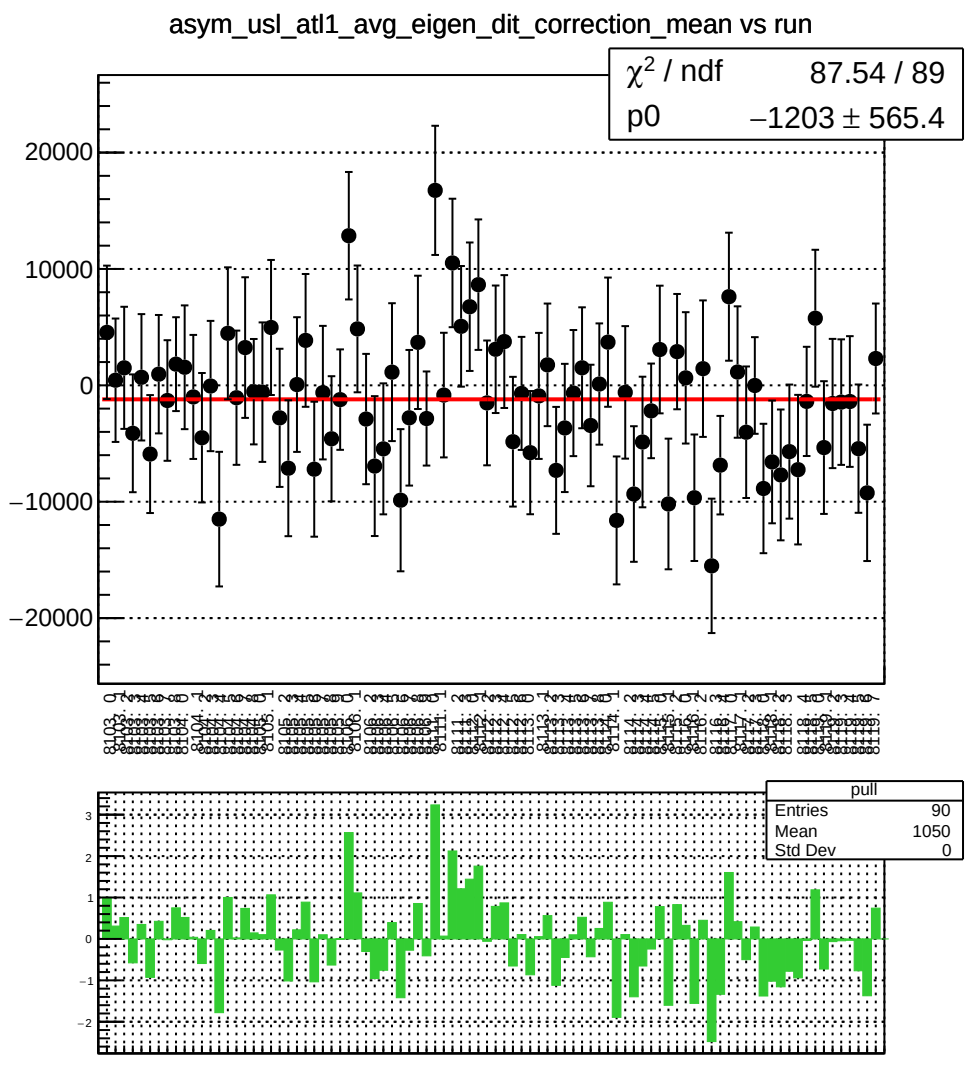

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 87.54 / 89
p0 −1203 ± 565.4
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 1050
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.005456
Std Dev 0.9862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

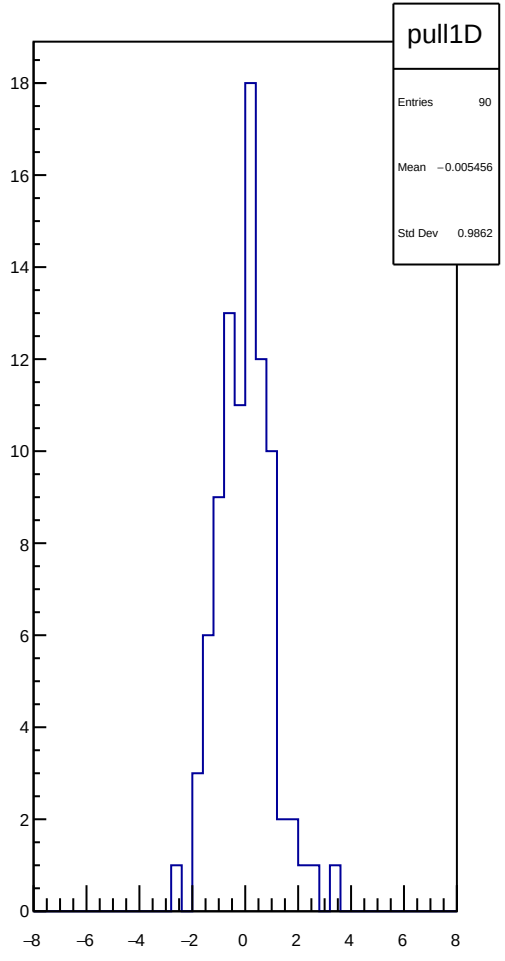

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 3199 / 89
p0 529.7 ± 0.3998
620
600
580
560
540
520
500
480

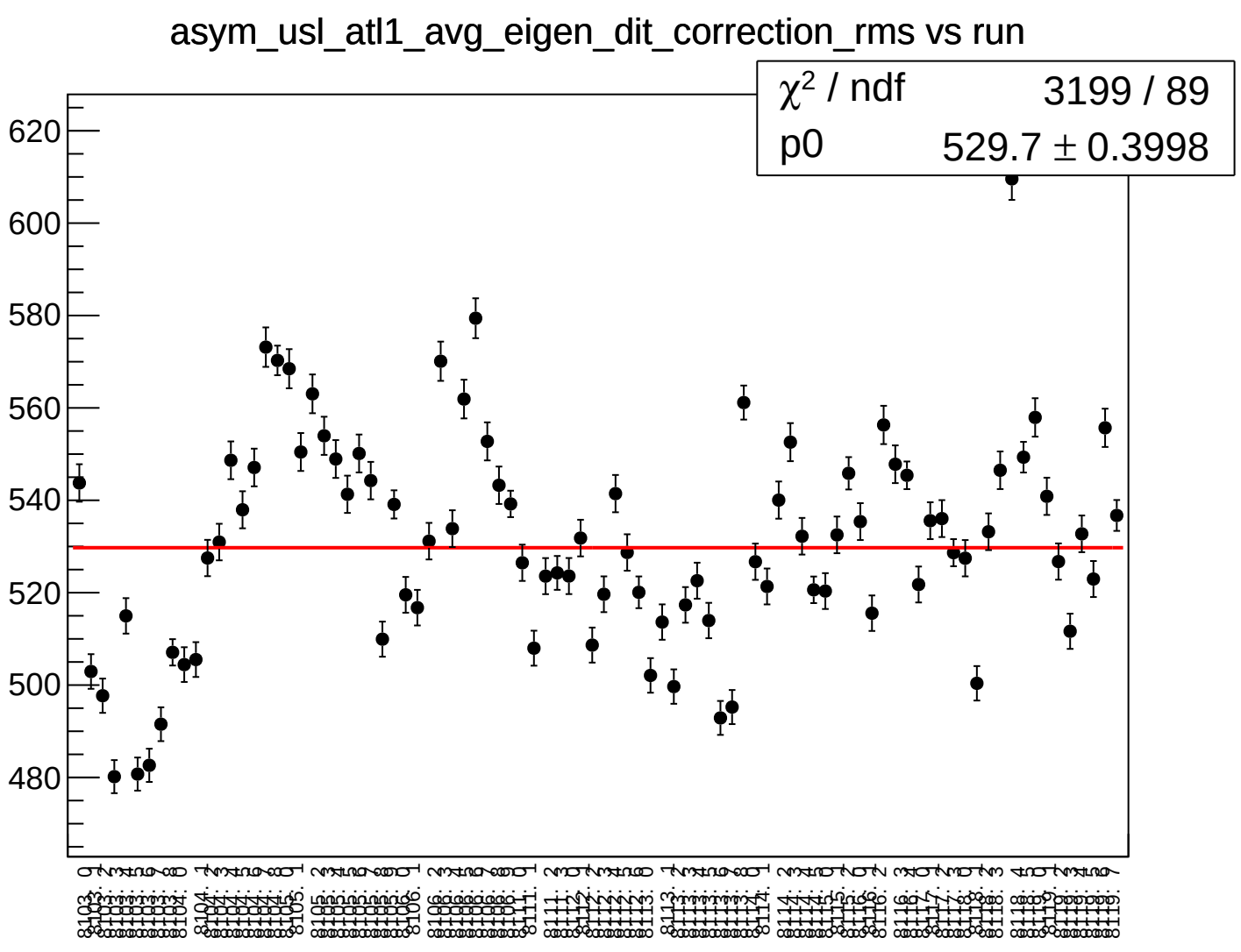

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 85.22 / 89
p0 2655 ± 1557
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 111.5
Std Dev 47.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

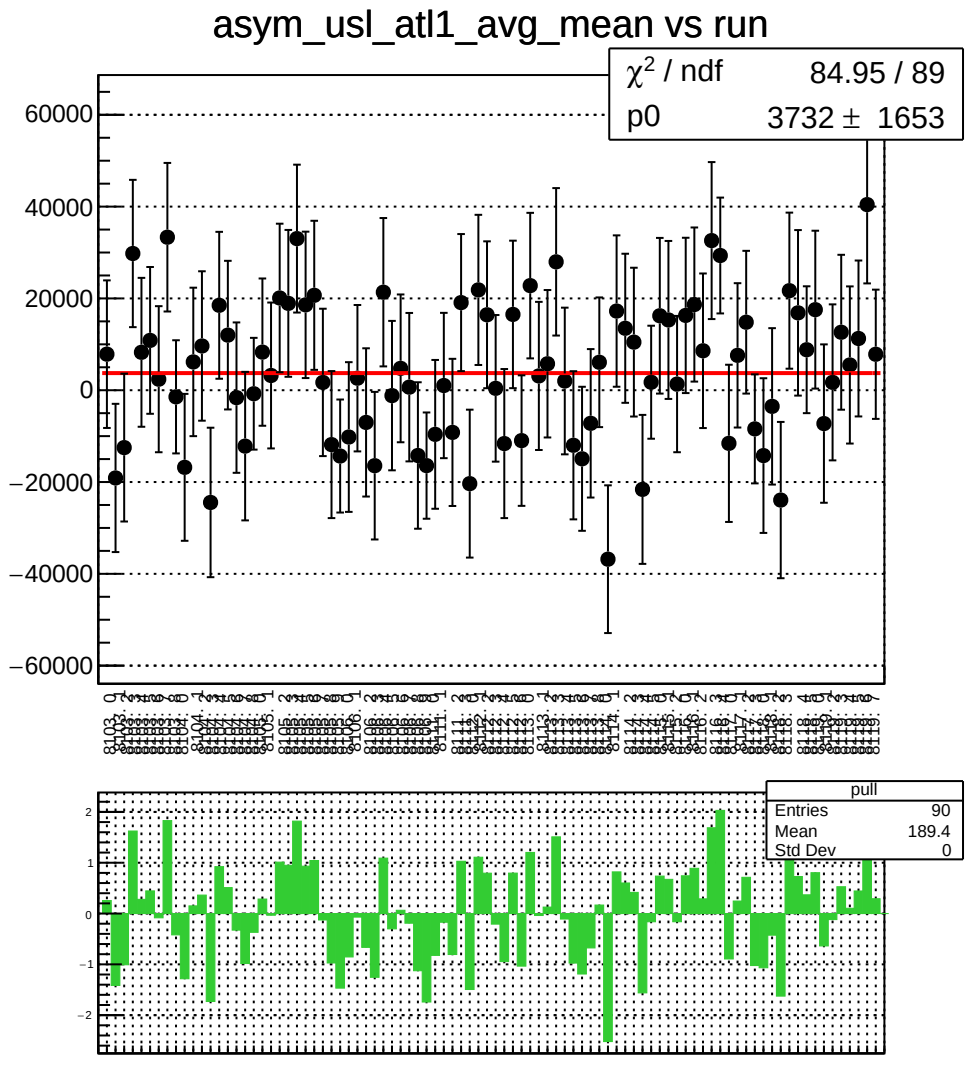

pull1D
Entries 90
Mean 0.01142
Std Dev 0.973
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

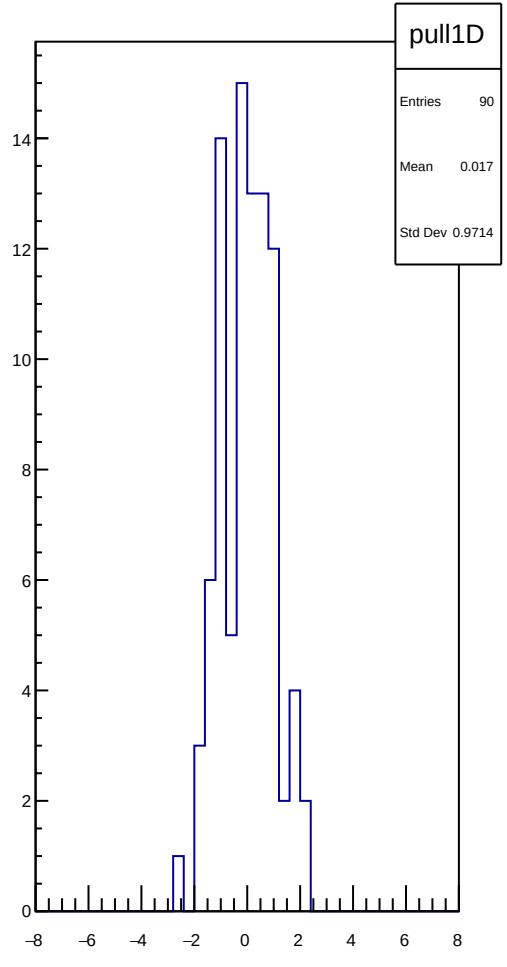

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 193.7 / 89
p0 1460 ± 1.101
1520
1500
1480
1460
1440
1420

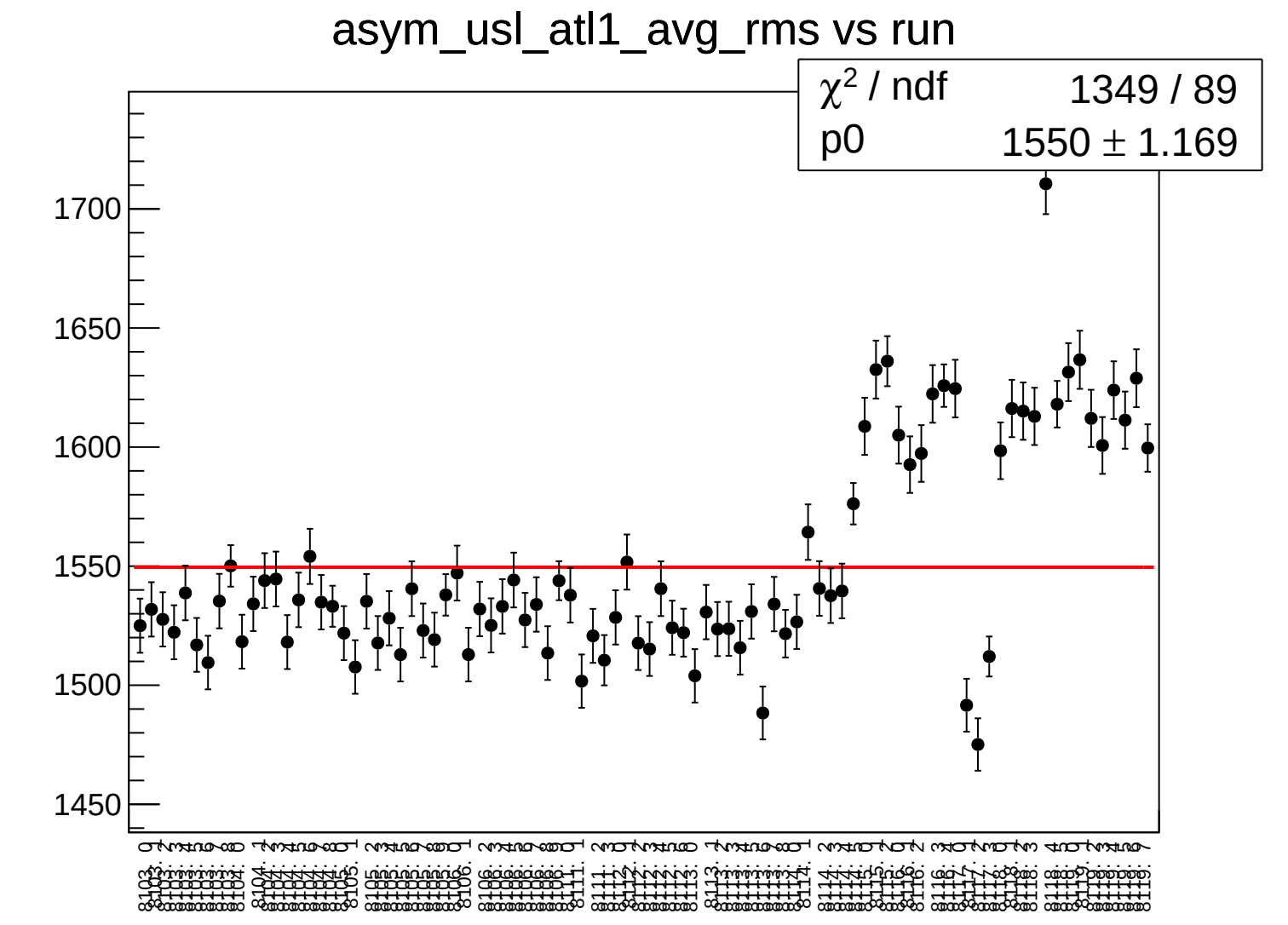

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.54 / 89
p0 −1203 ± 565.4
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 1050
Std Dev 0
3
2
1
0
−1
−2

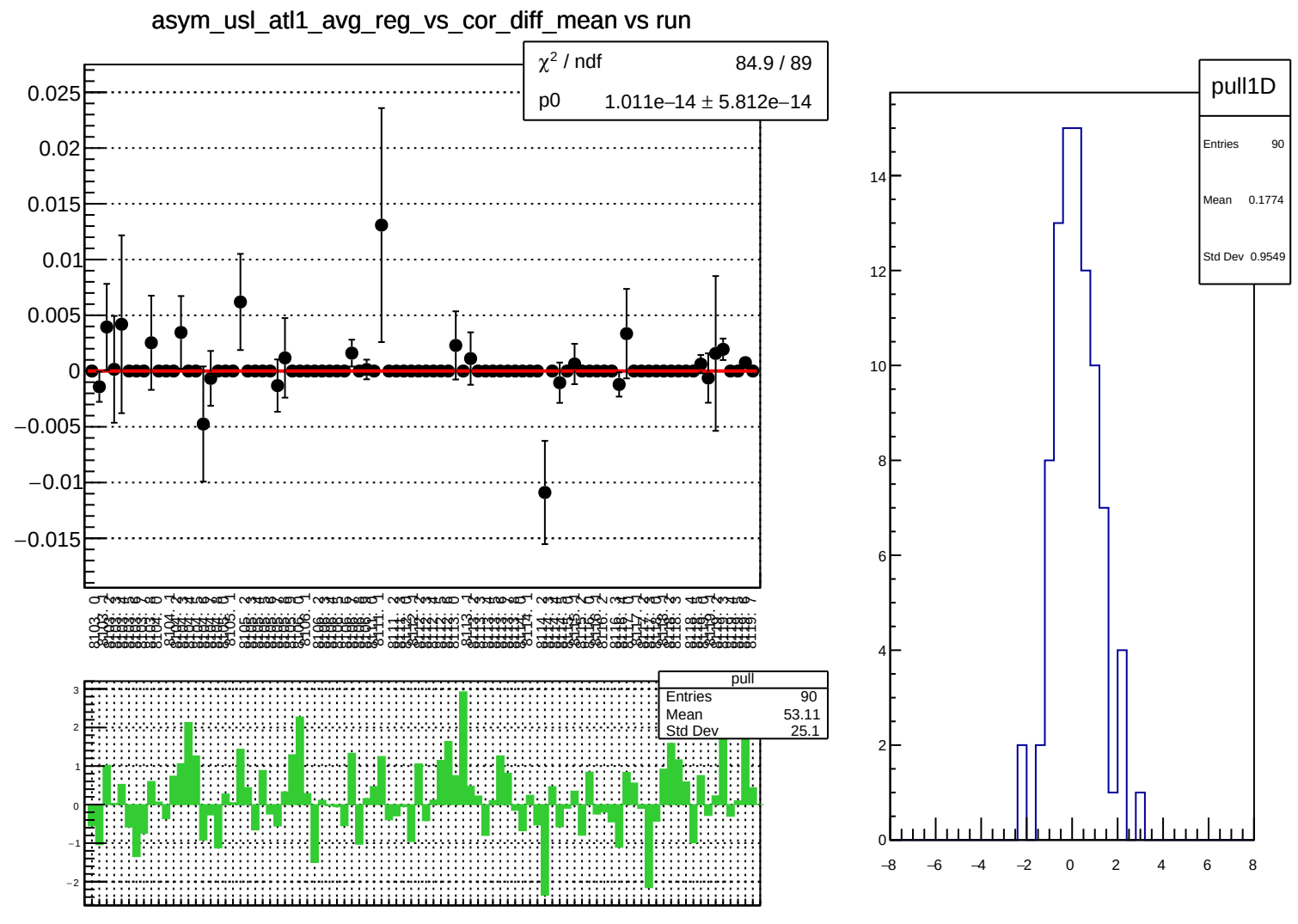

pull1D
Entries 90
Mean −0.005456
Std Dev 0.9862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

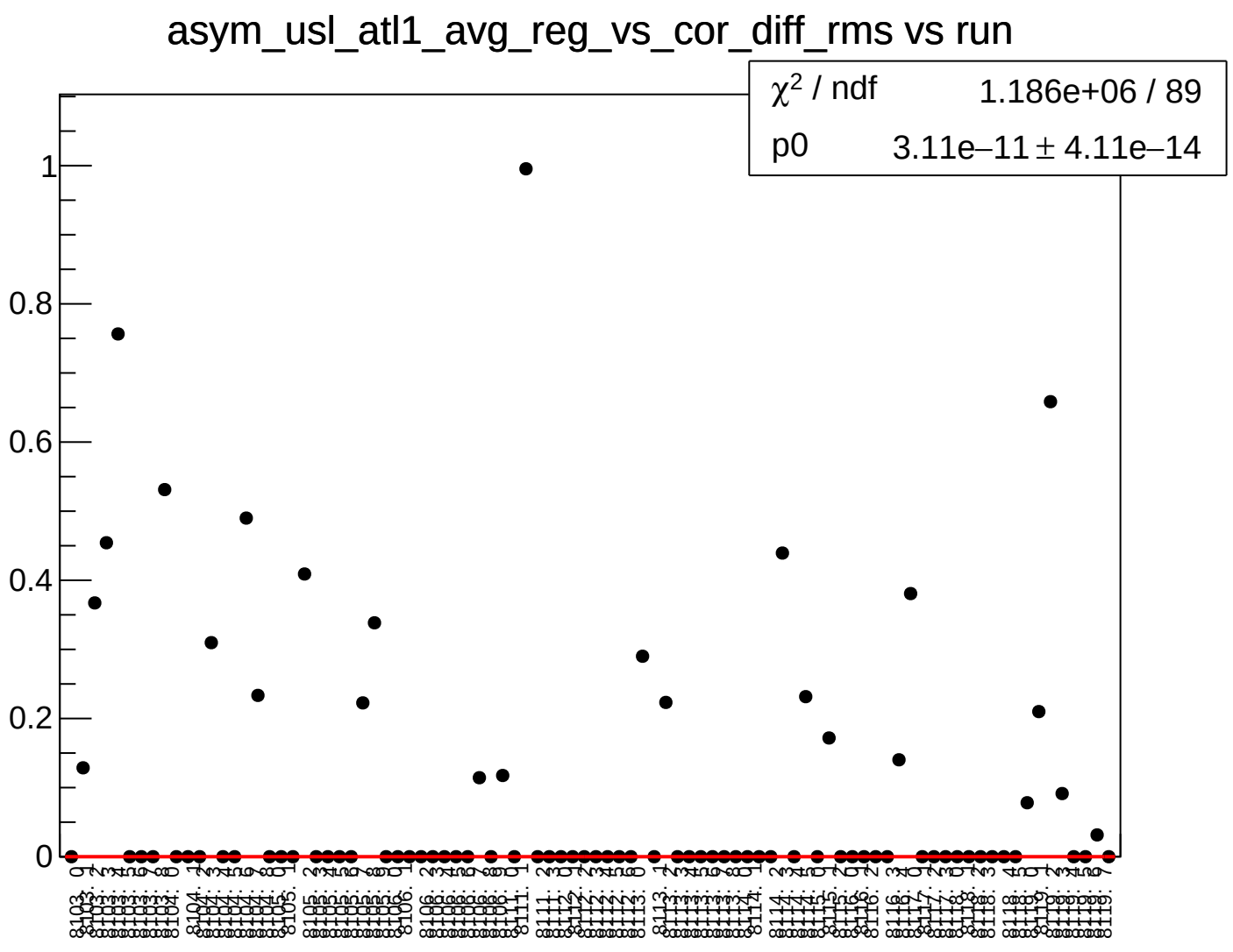

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3199 / 89
p0 529.7 ± 0.3998
620
600
580
560
540
520
500
480

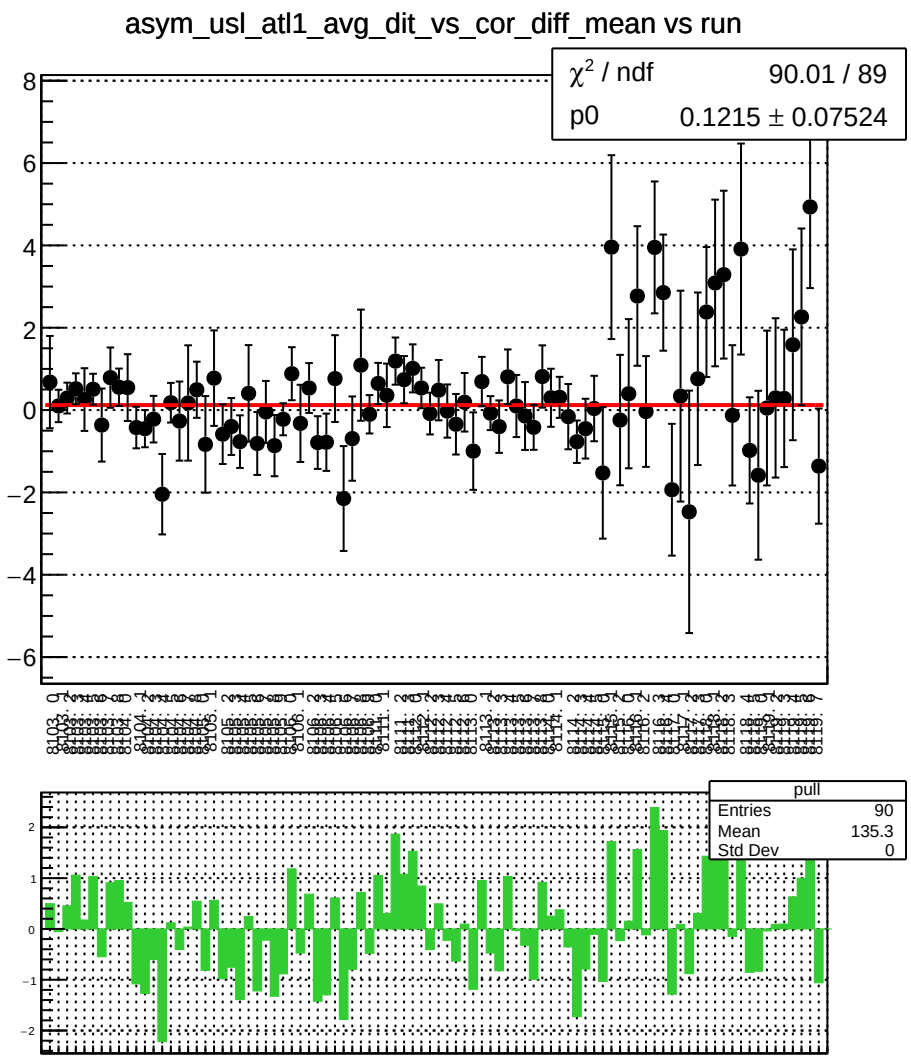

asym_usl_atl1_avg_mean vs run
χ² / ndf 84.95 / 89
p0 3732 ± 1653
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 189.4
Std Dev 0
2
1
0
−1
−2

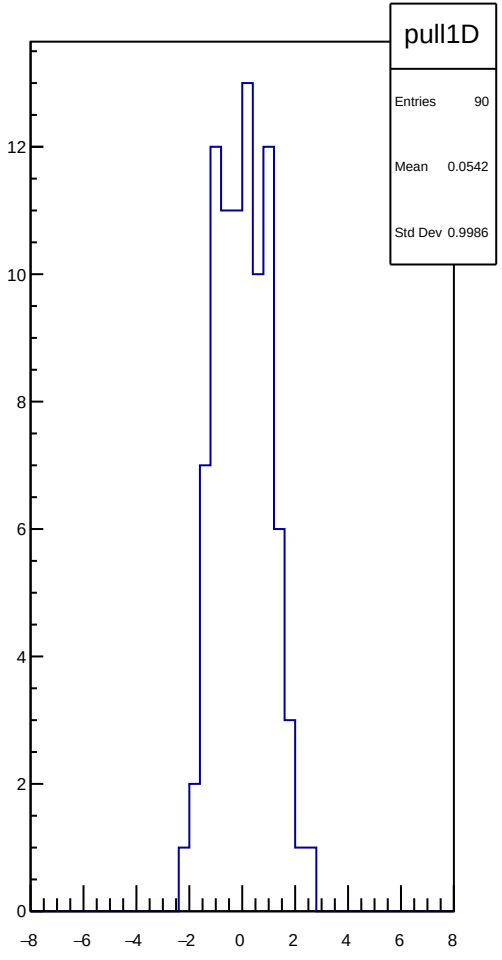

pull1D
Entries 90
Mean 0.017
Std Dev 0.9714
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

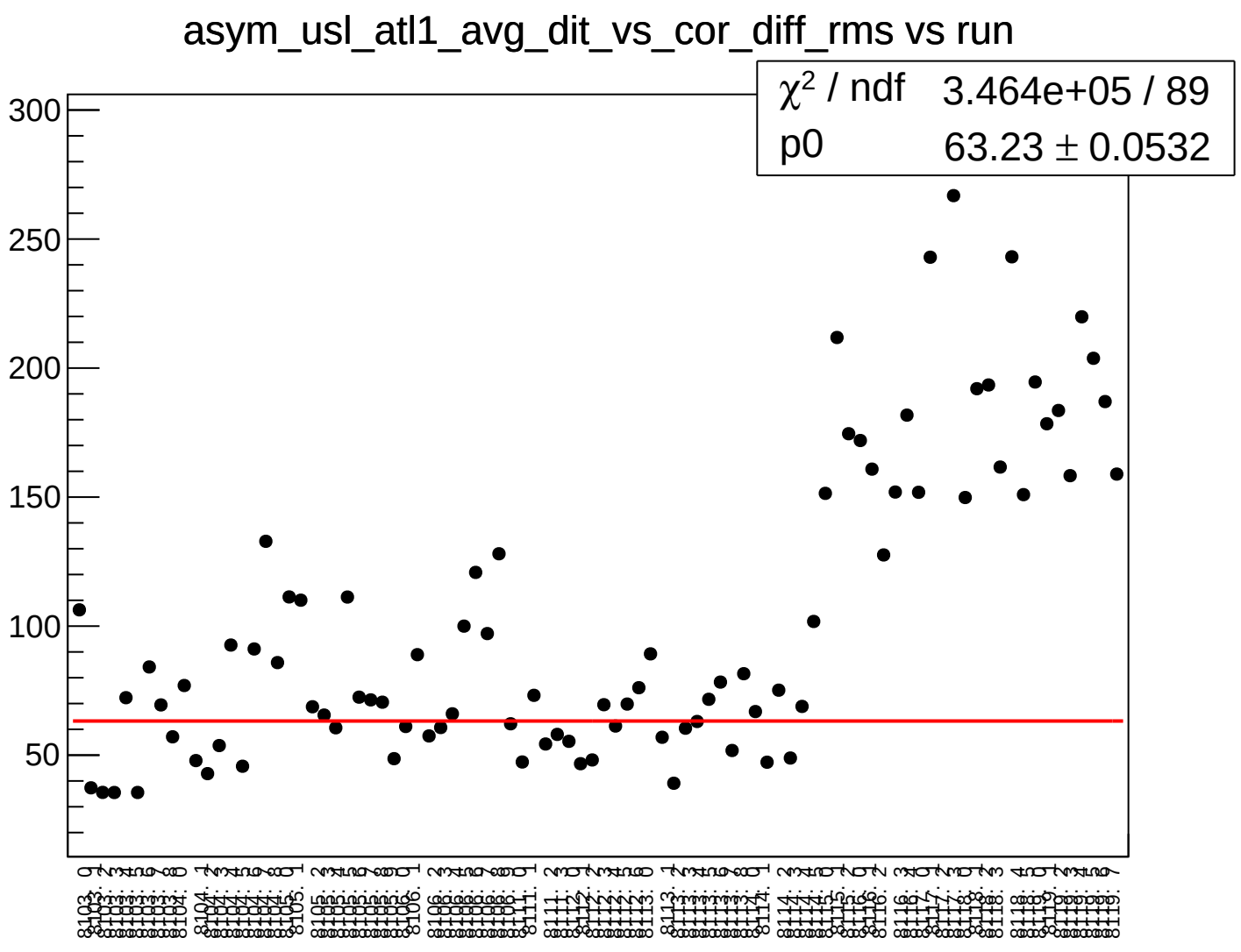

asym_usl_atl1_avg_rms vs run
χ² / ndf 1349 / 89
p0 1550 ± 1.169
1700
1650
1600
1550
1500
1450

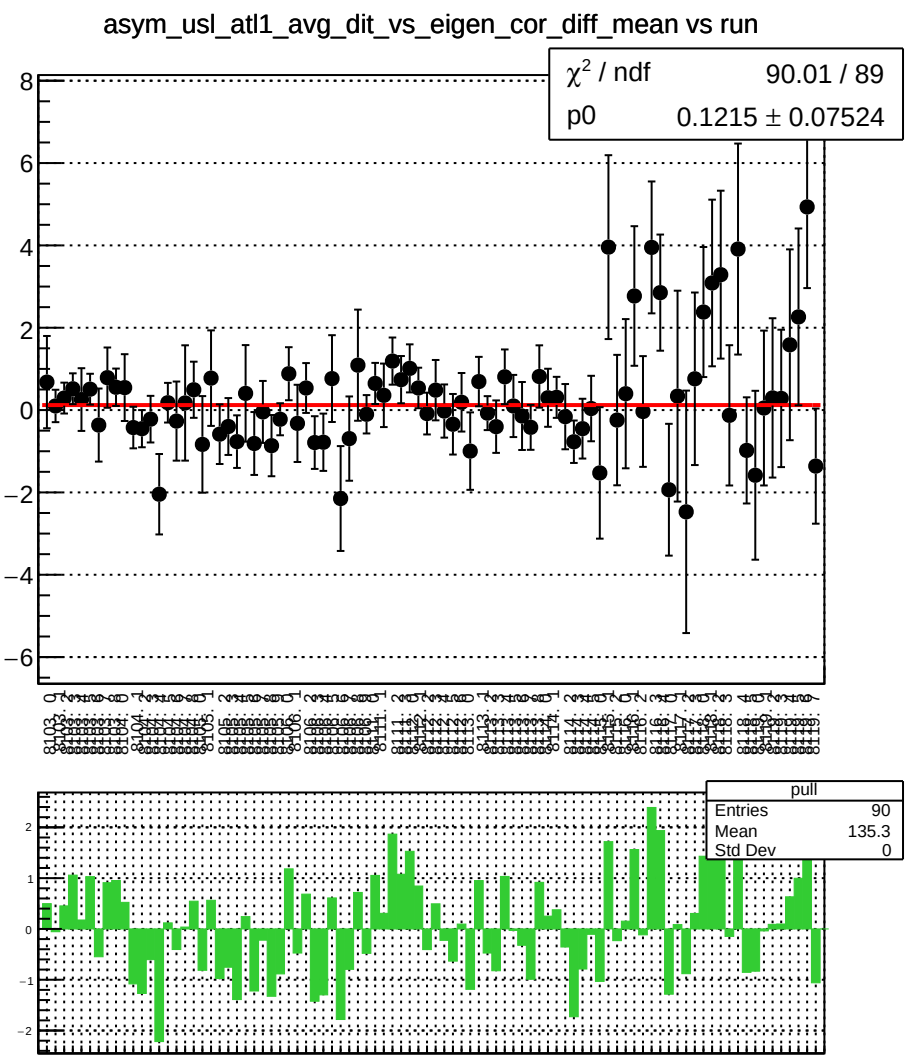

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.9 / 89
p0 1.011e−14 ± 5.812e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 53.11
Std Dev 25.1
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.1774
Std Dev 0.9549
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

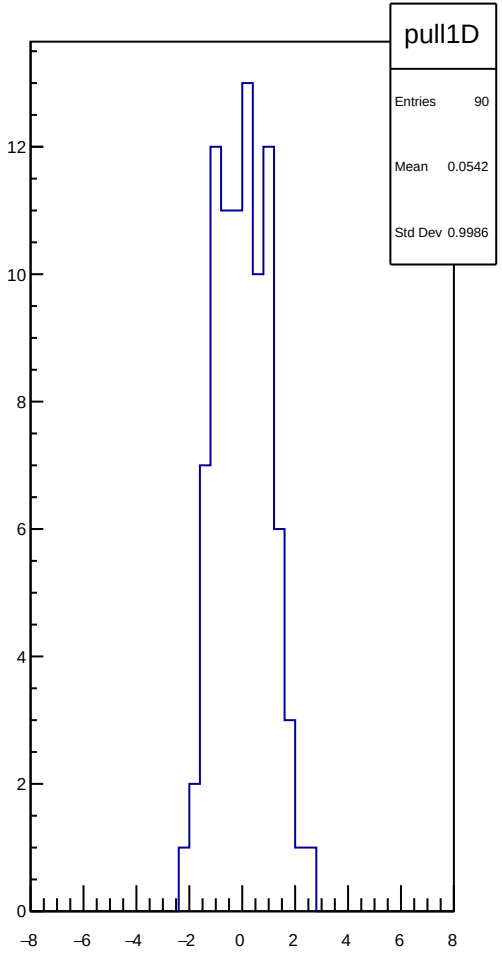

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.186e+06 / 89
p0 3.11e−11 ± 4.11e−14
1
0.8
0.6
0.4
0.2
0

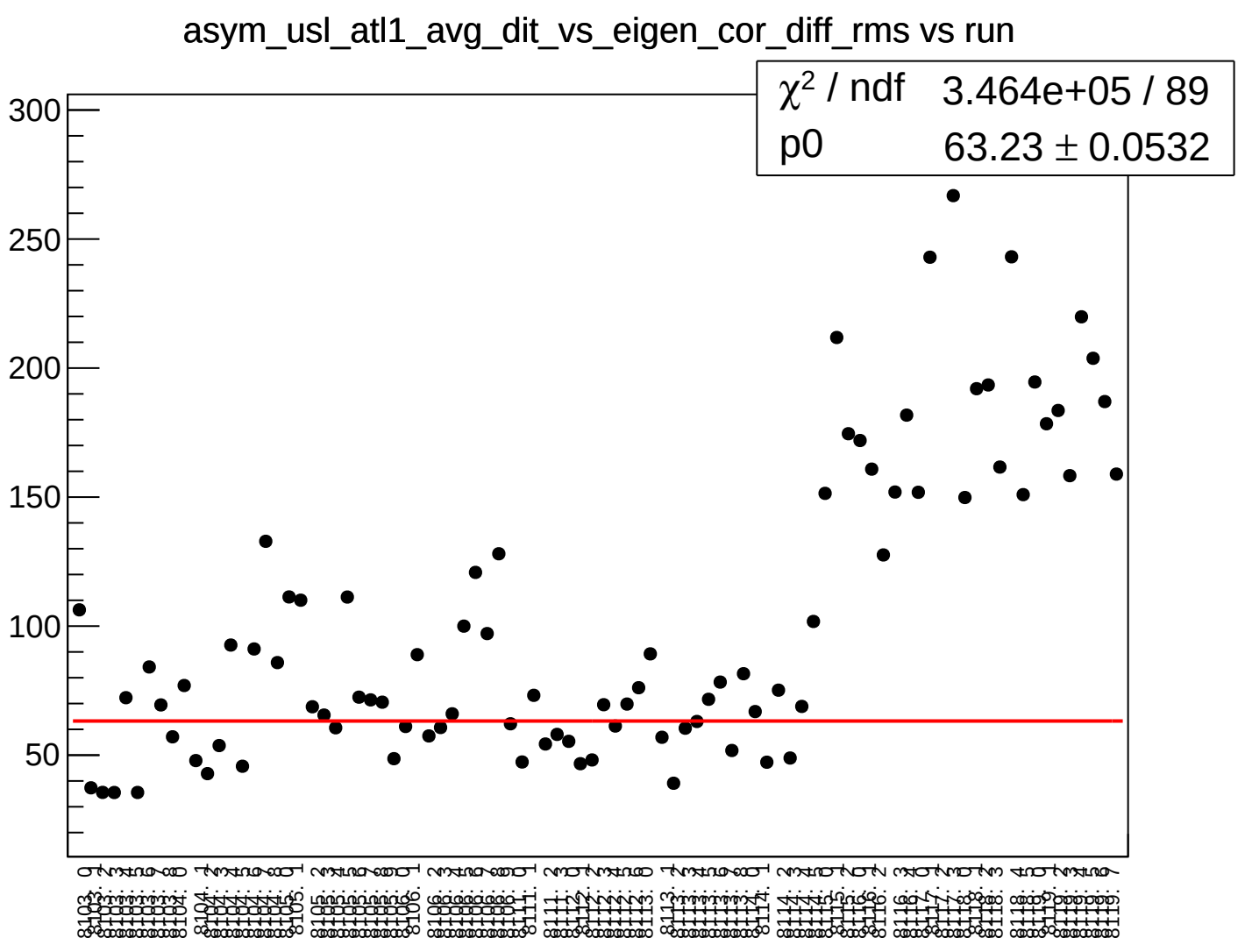

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.01 / 89
p0 0.1215 ± 0.07524
pull
Entries 90
Mean 135.3
Std Dev 0

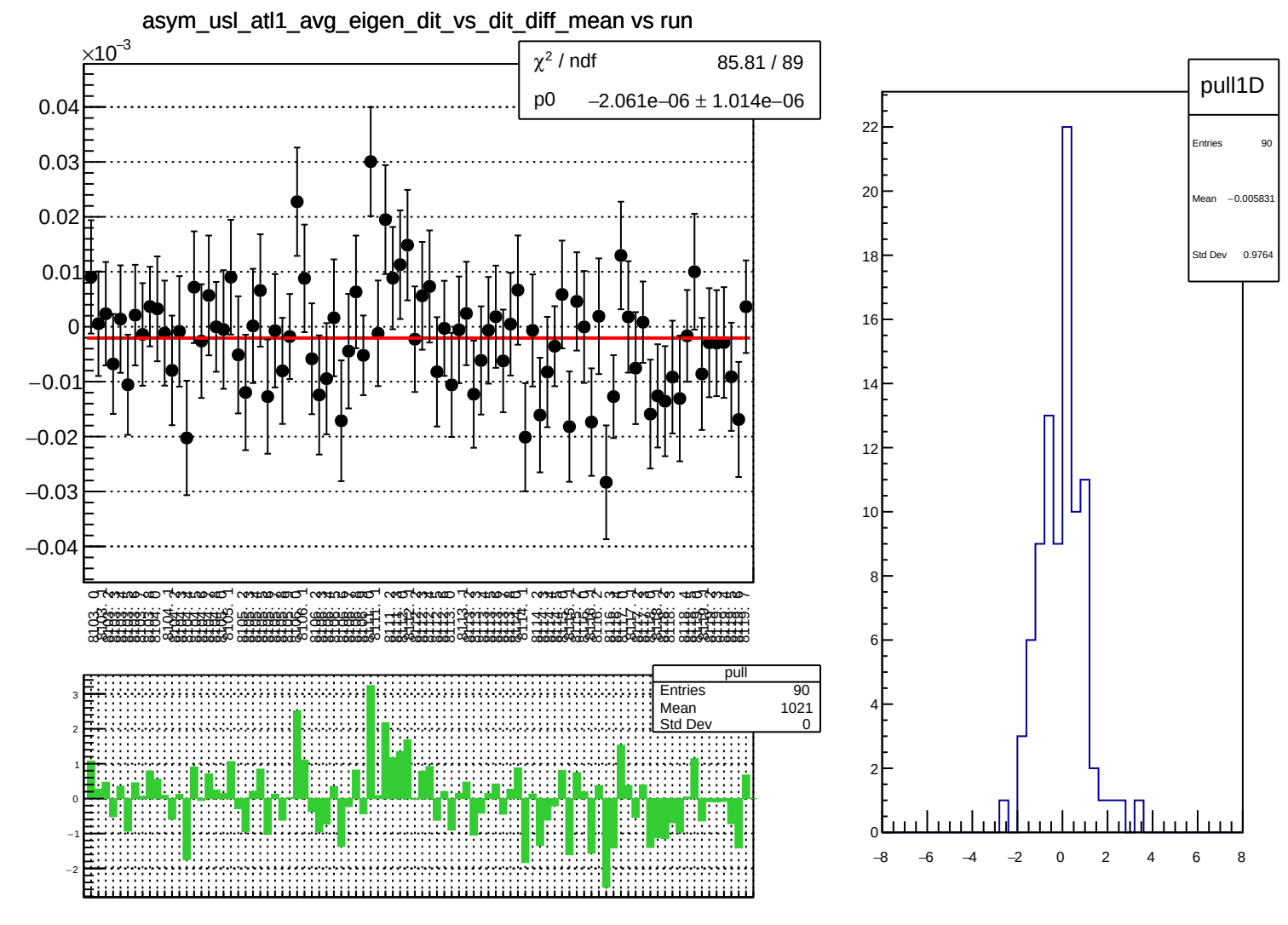

pull1D
Entries 90
Mean 0.0542
Std Dev 0.9986

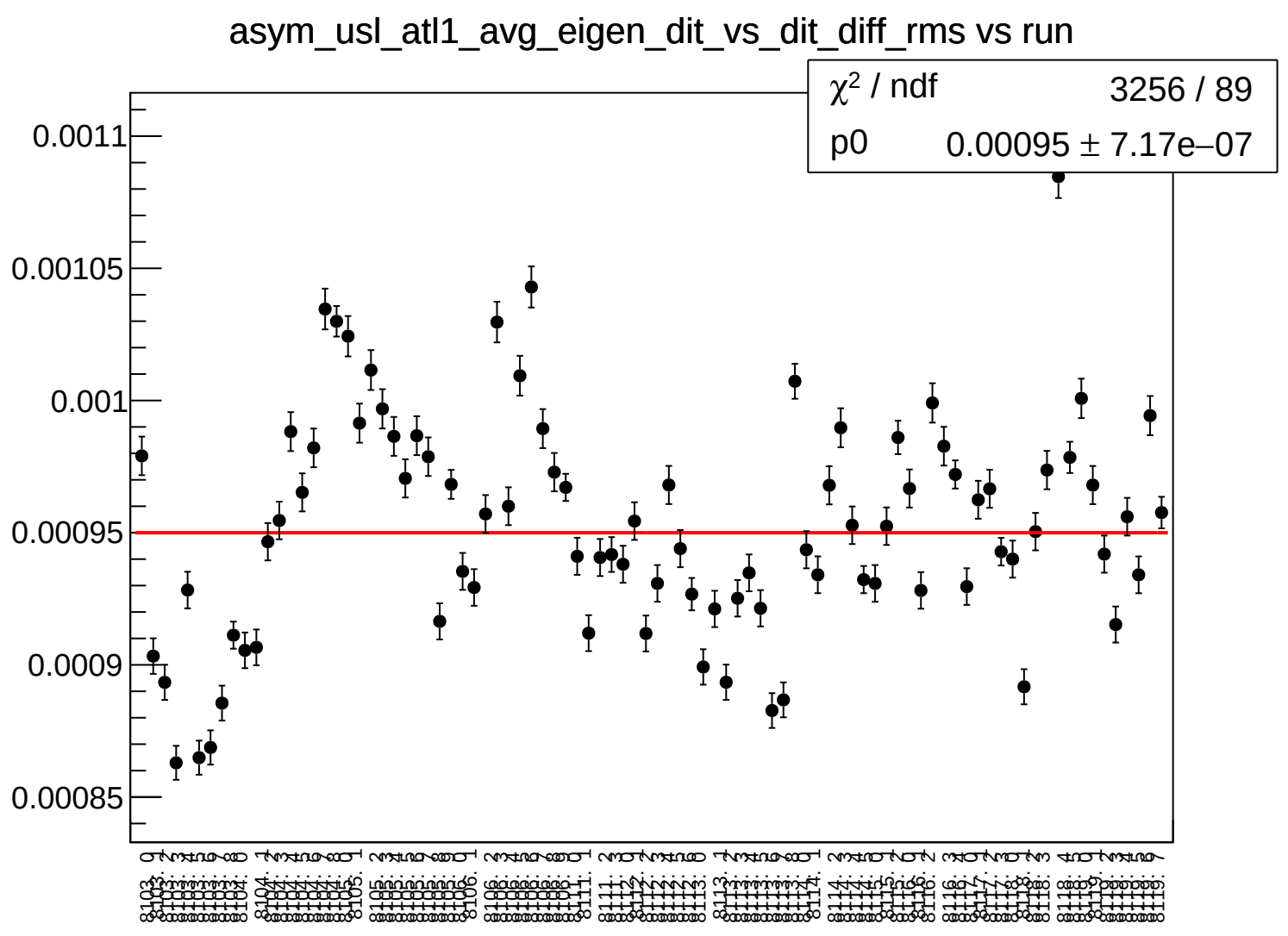

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.464e+05 / 89
p0 63.23 ± 0.0532
300
250
200
150
100
50

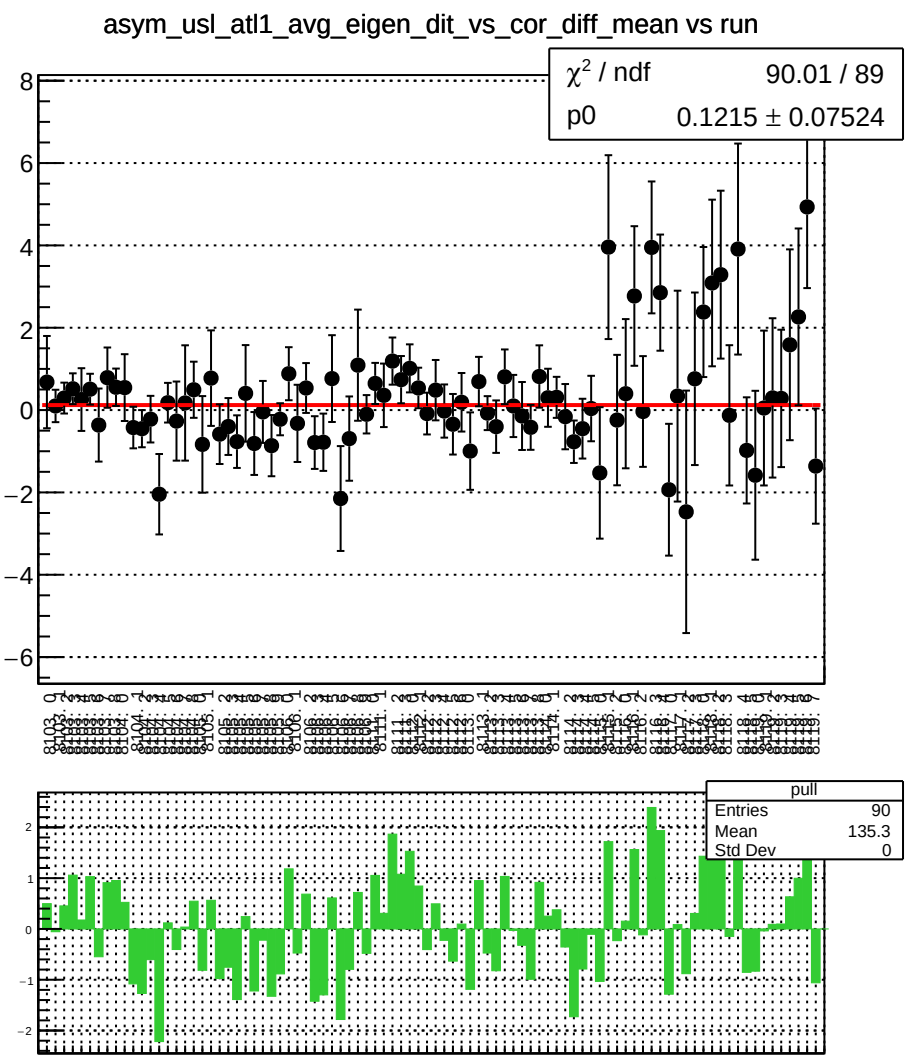

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.01 / 89
p0 0.1215 ± 0.07524
pull
Entries 90
Mean 135.3
Std Dev 0

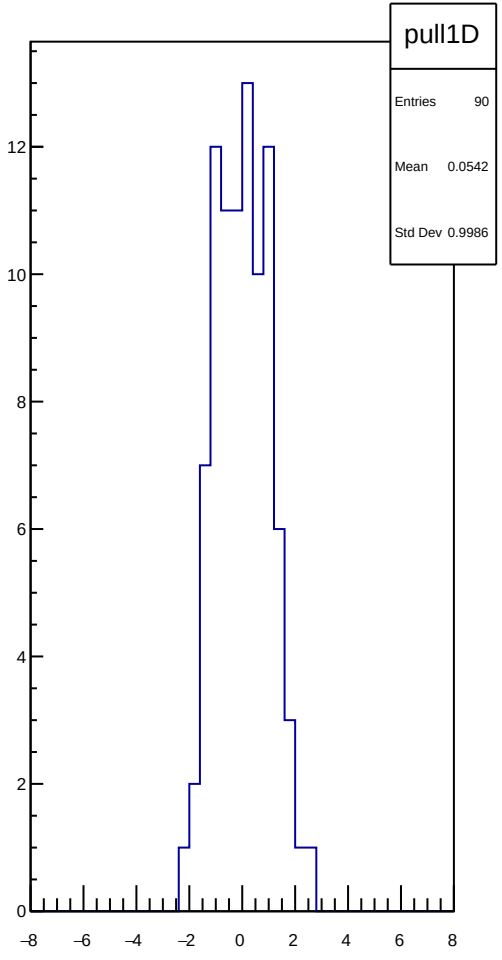

pull1D
Entries 90
Mean 0.0542
Std Dev 0.9986

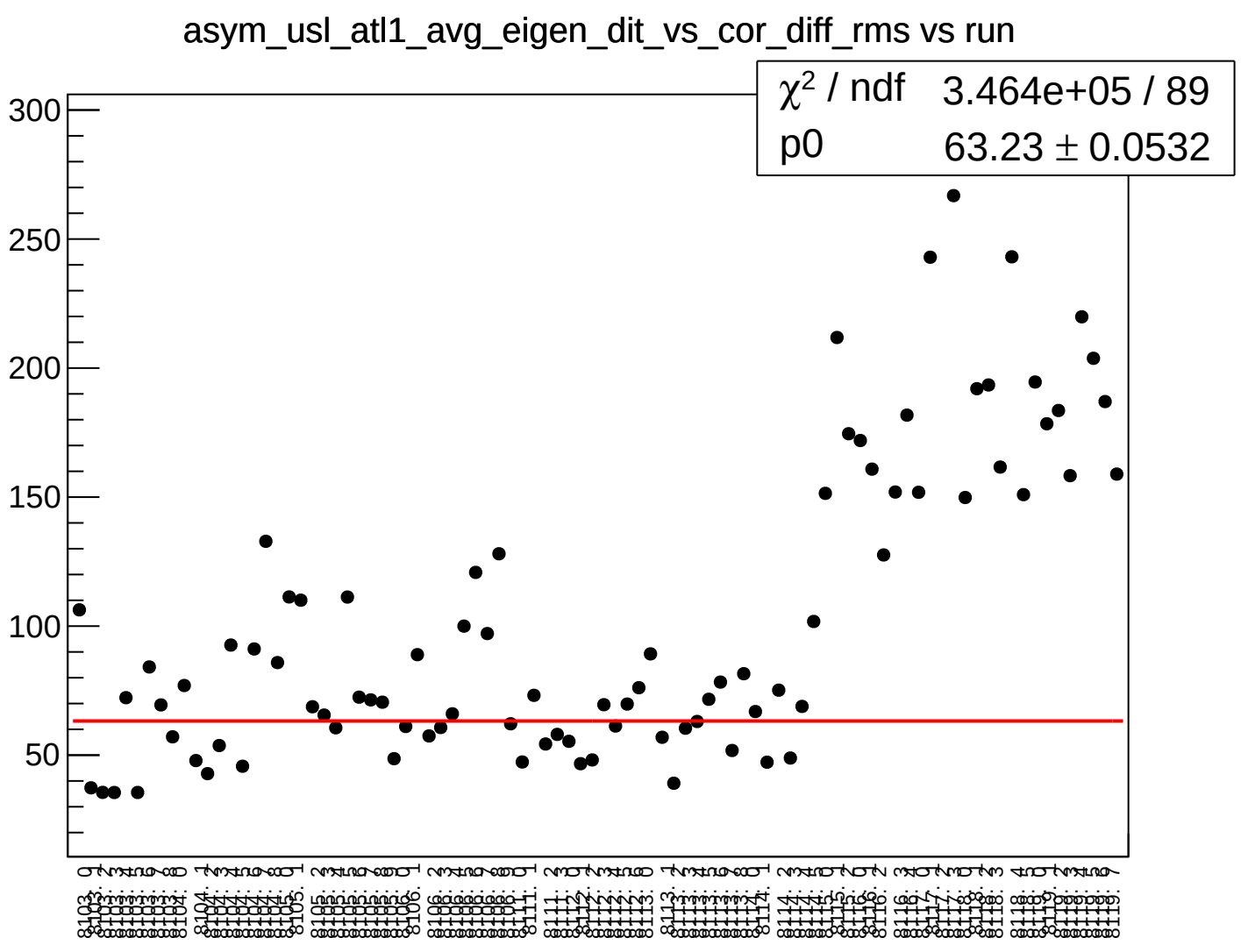

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.464e+05 / 89
p0 63.23 ± 0.0532
300
250
200
150
100
50

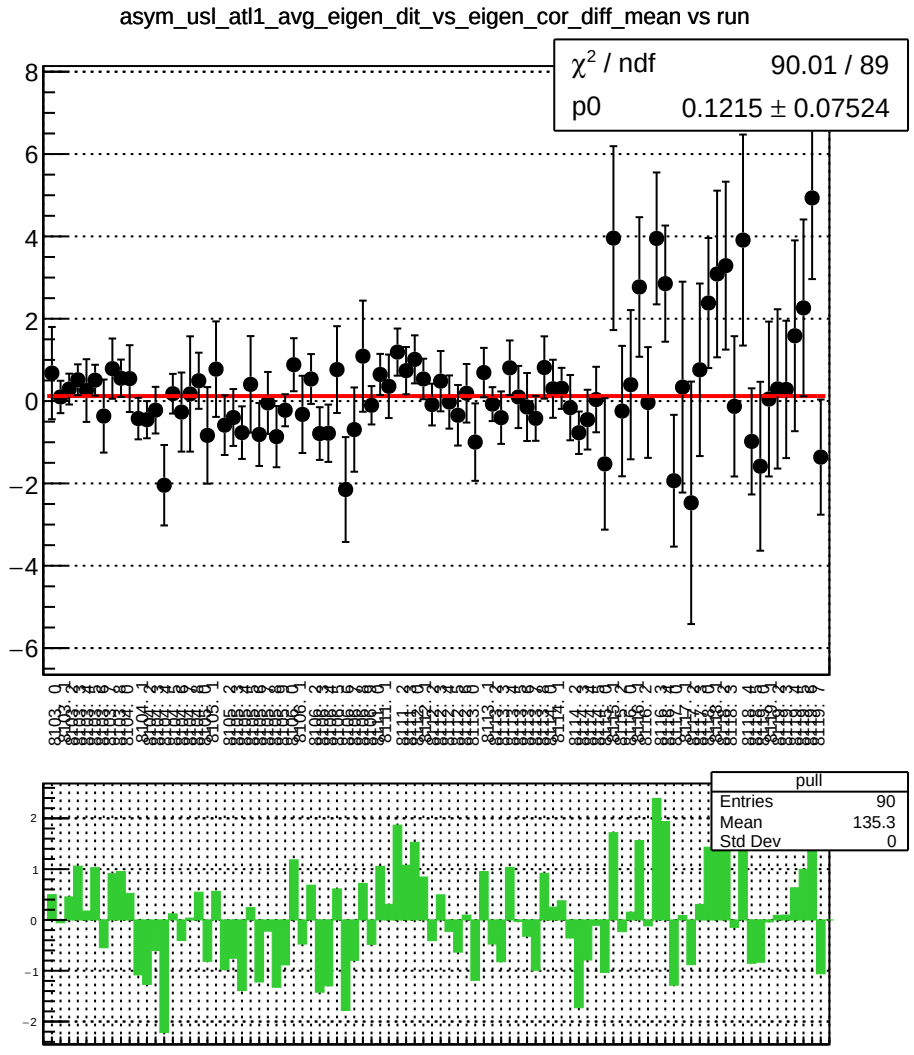

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.81 / 89
p0 −2.061e−06 ± 1.014e−06
pull
Entries 90
Mean 1021
Std Dev 0
pull1D
Entries 90
Mean −0.005831
Std Dev 0.9764

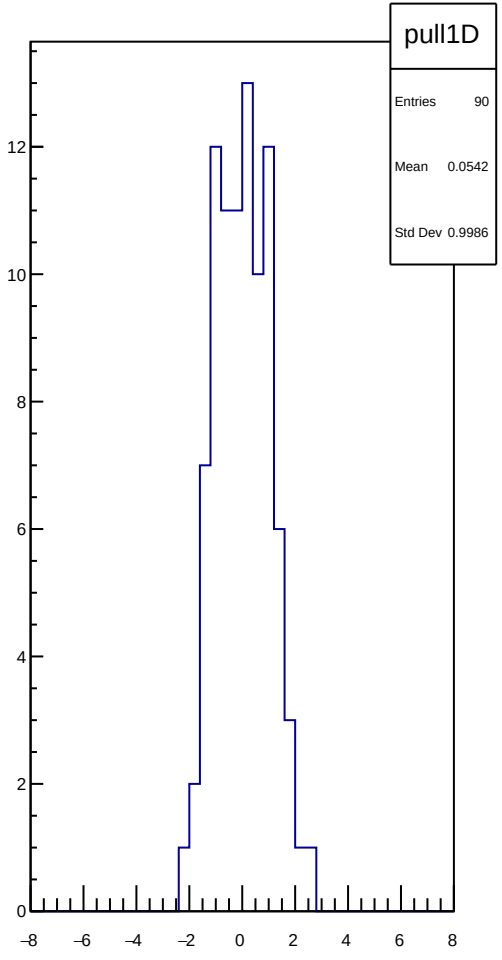

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3256 / 89
p0 0.00095 ± 7.17e–07
0.0011
0.00105
0.001
0.00095
0.0009
0.00085

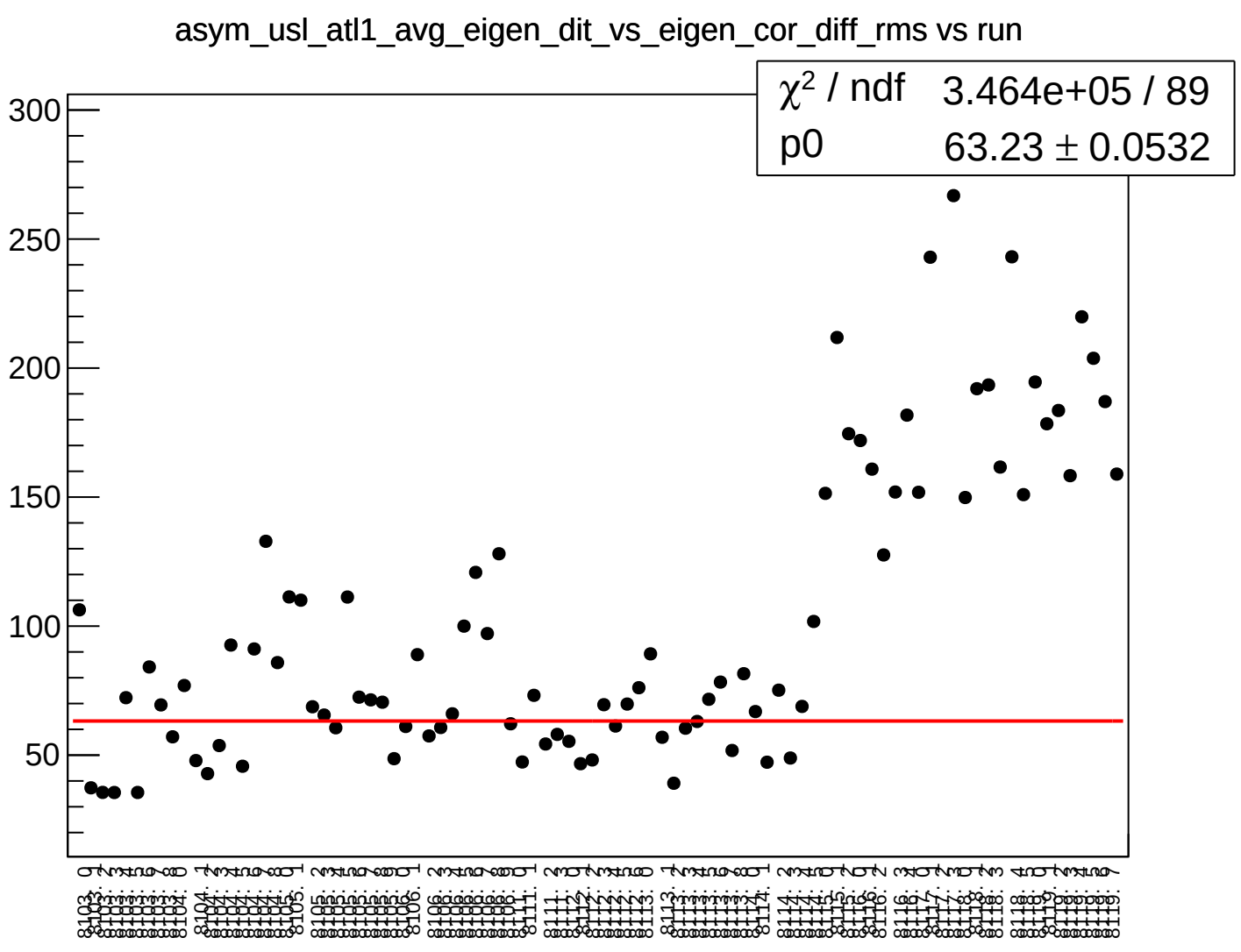

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.01 / 89
p0 0.1215 ± 0.07524
pull
Entries 90
Mean 135.3
Std Dev 0

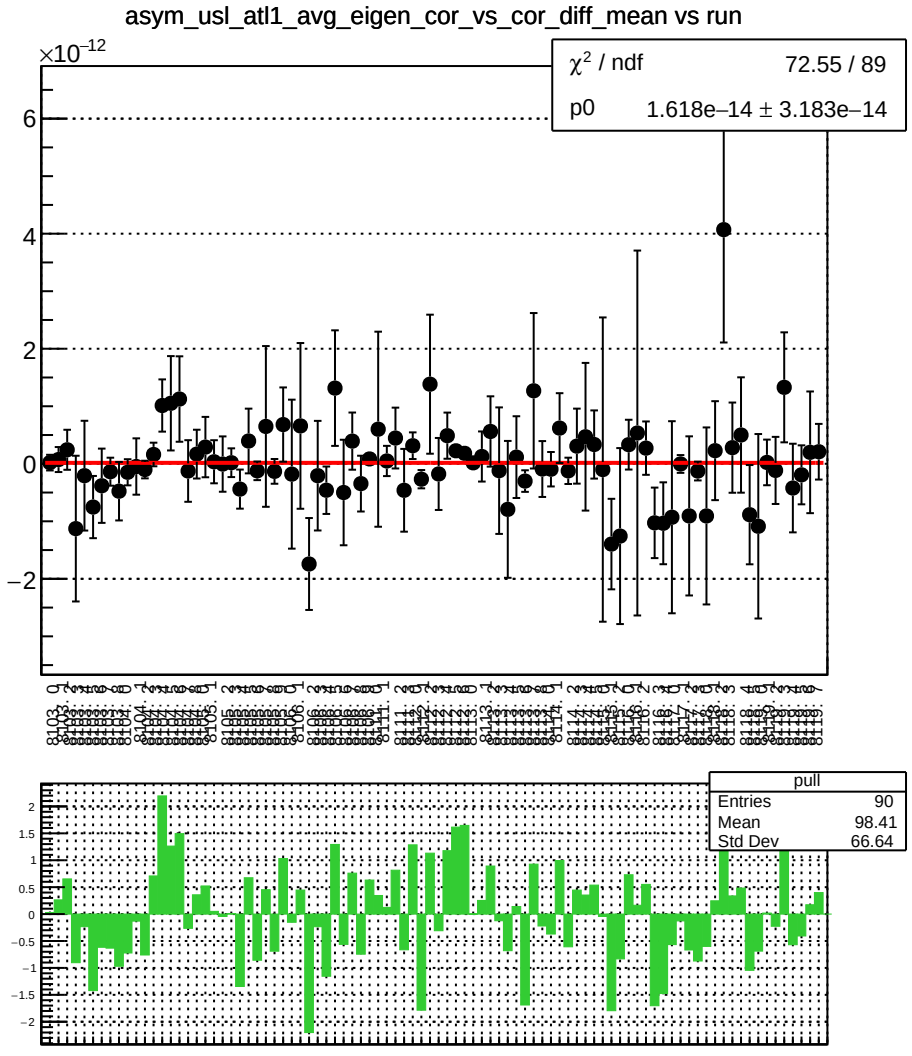

pull1D
Entries 90
Mean 0.0542
Std Dev 0.9986

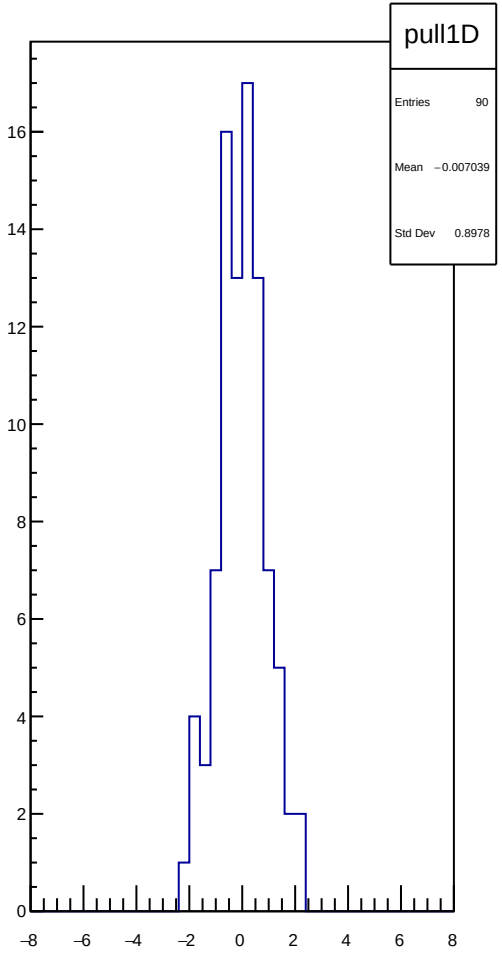

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.464e+05 / 89
p0 63.23 ± 0.0532
300
250
200
150
100
50

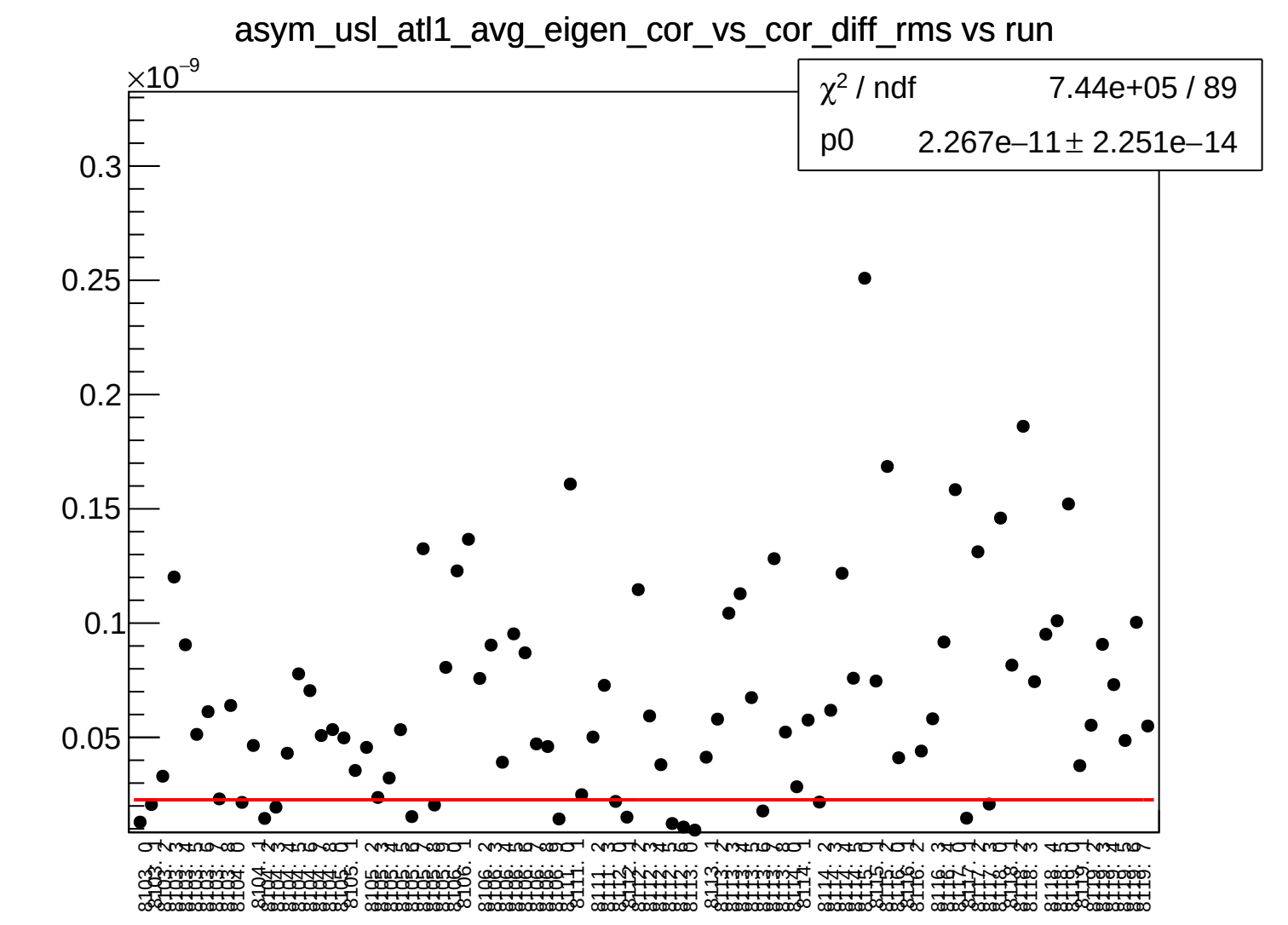

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.01 / 89
p0 0.1215 ± 0.07524
pull
Entries 90
Mean 135.3
Std Dev 0

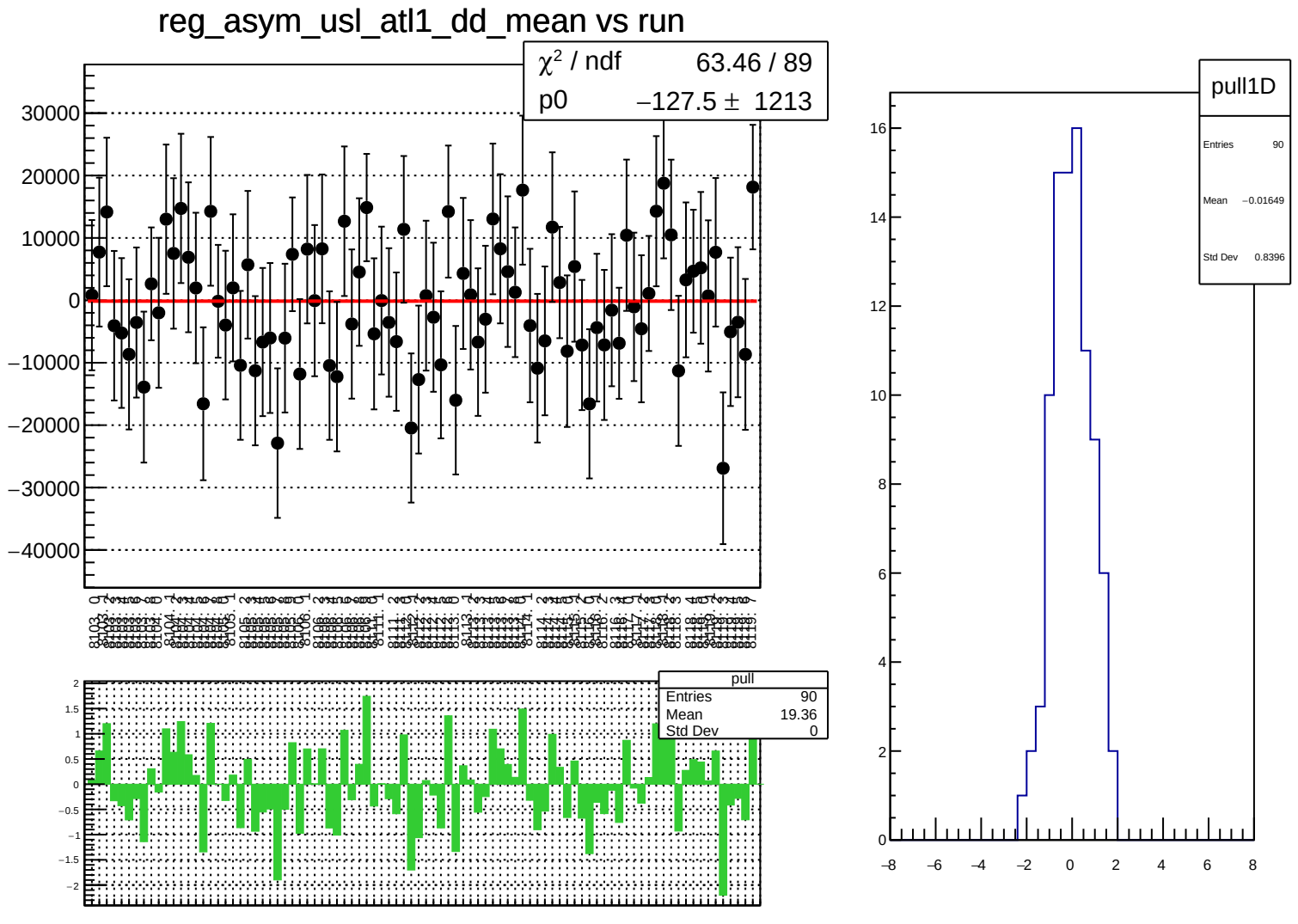

pull1D
Entries 90
Mean 0.0542
Std Dev 0.9986

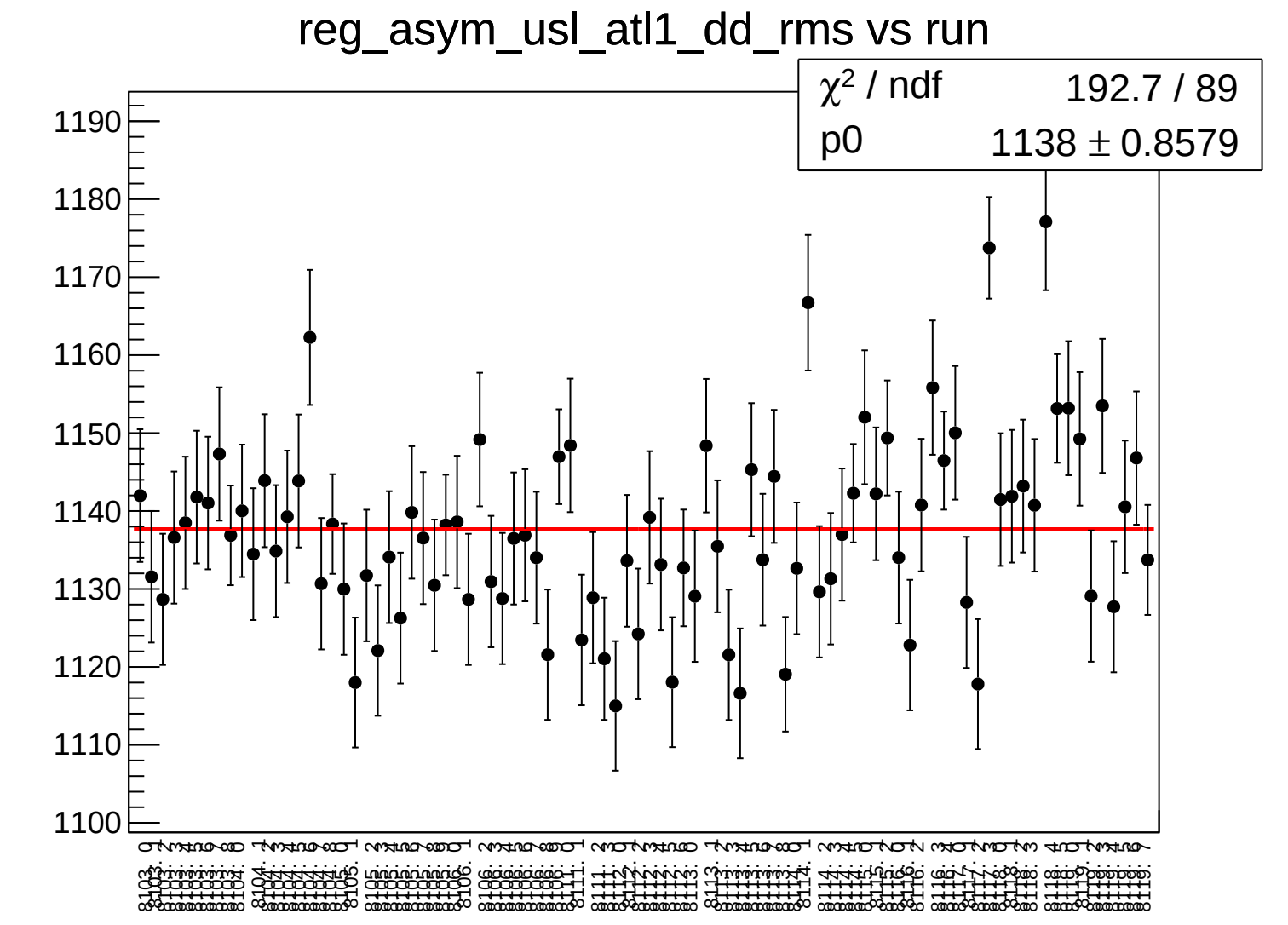

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.464e+05 / 89
p0 63.23 ± 0.0532
300
250
200
150
100
50

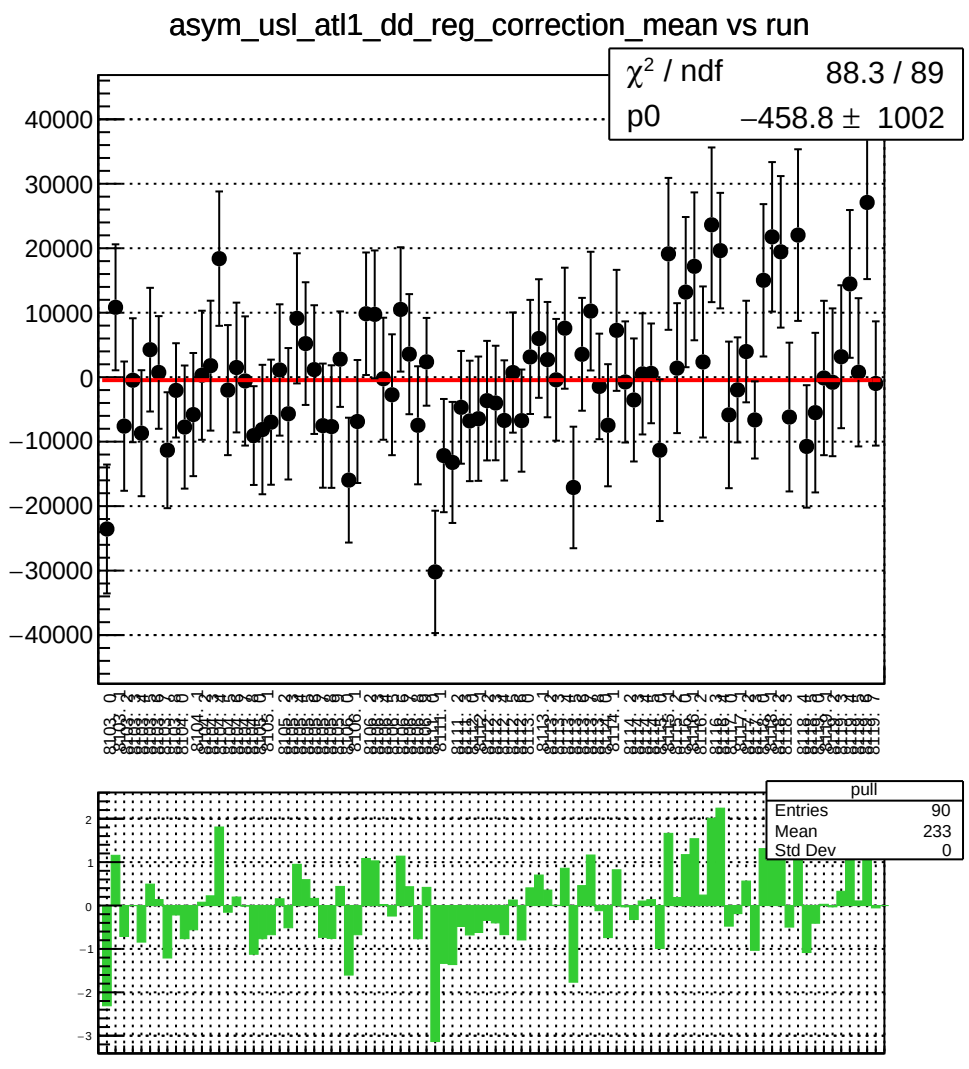

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.55 / 89
p0 1.618e−14 ± 3.183e−14
pull
Entries 90
Mean 98.41
Std Dev 66.64

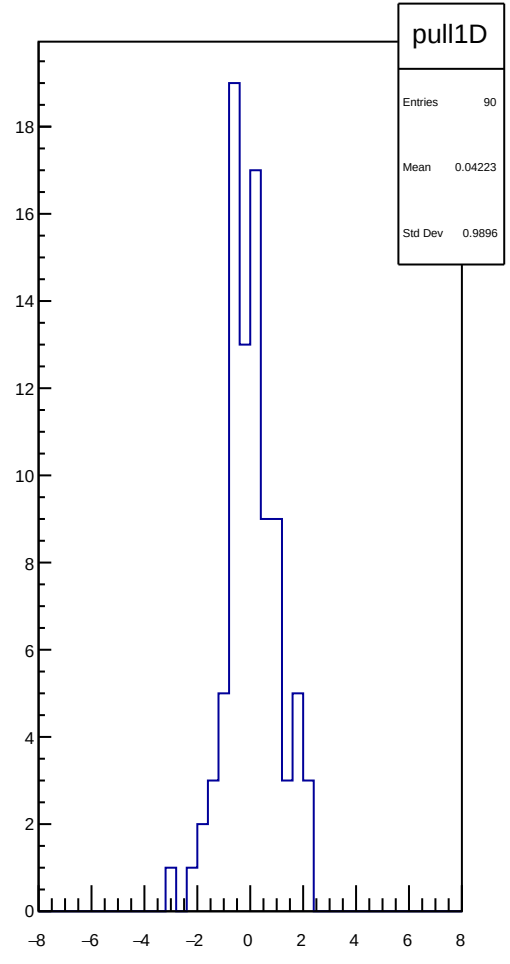

pull1D
Entries 90
Mean −0.007039
Std Dev 0.8978

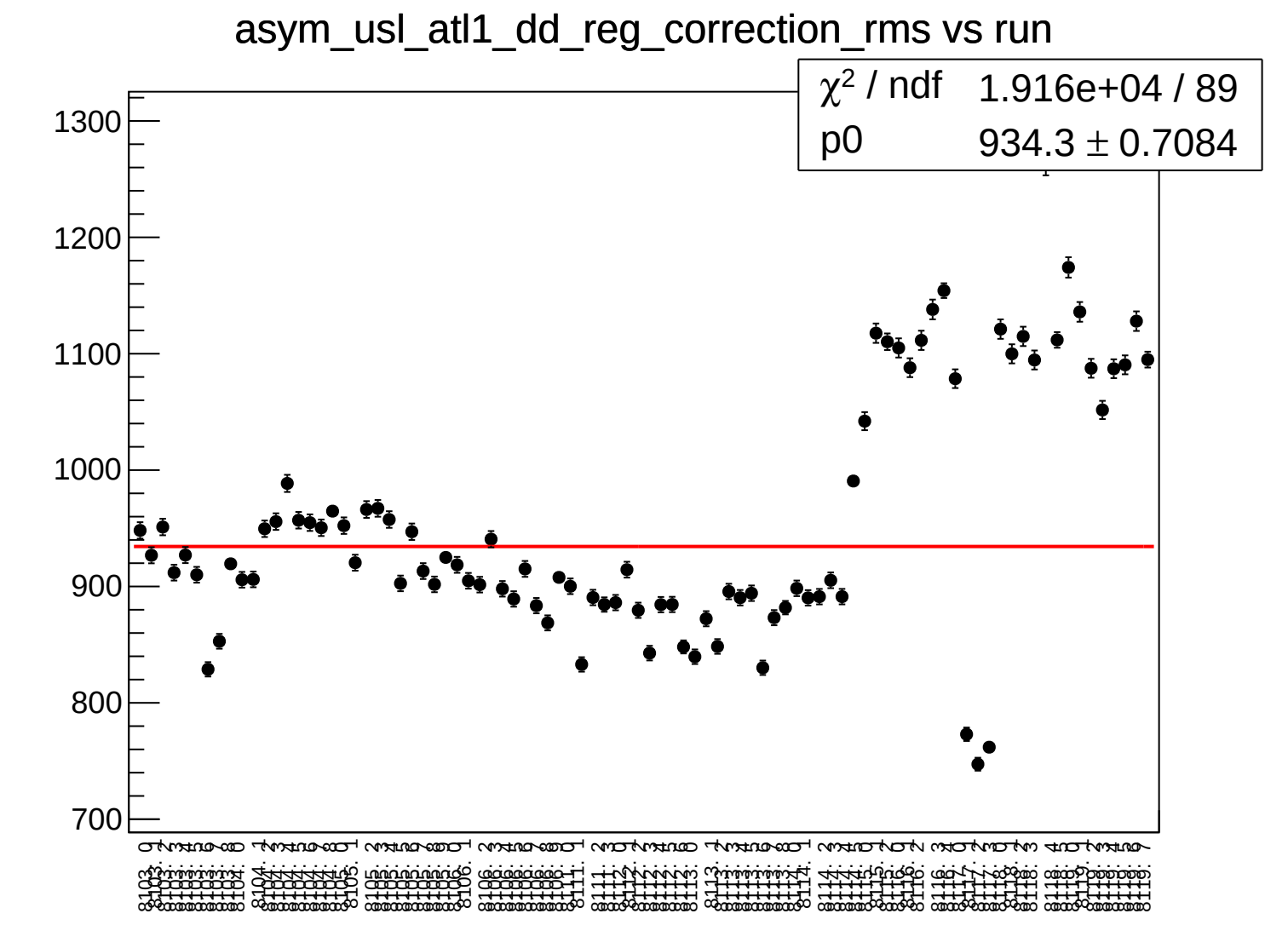

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.44e+05 / 89
p0 2.267e−11 ± 2.251e−14
0.3
0.25
0.2
0.15
0.1
0.05

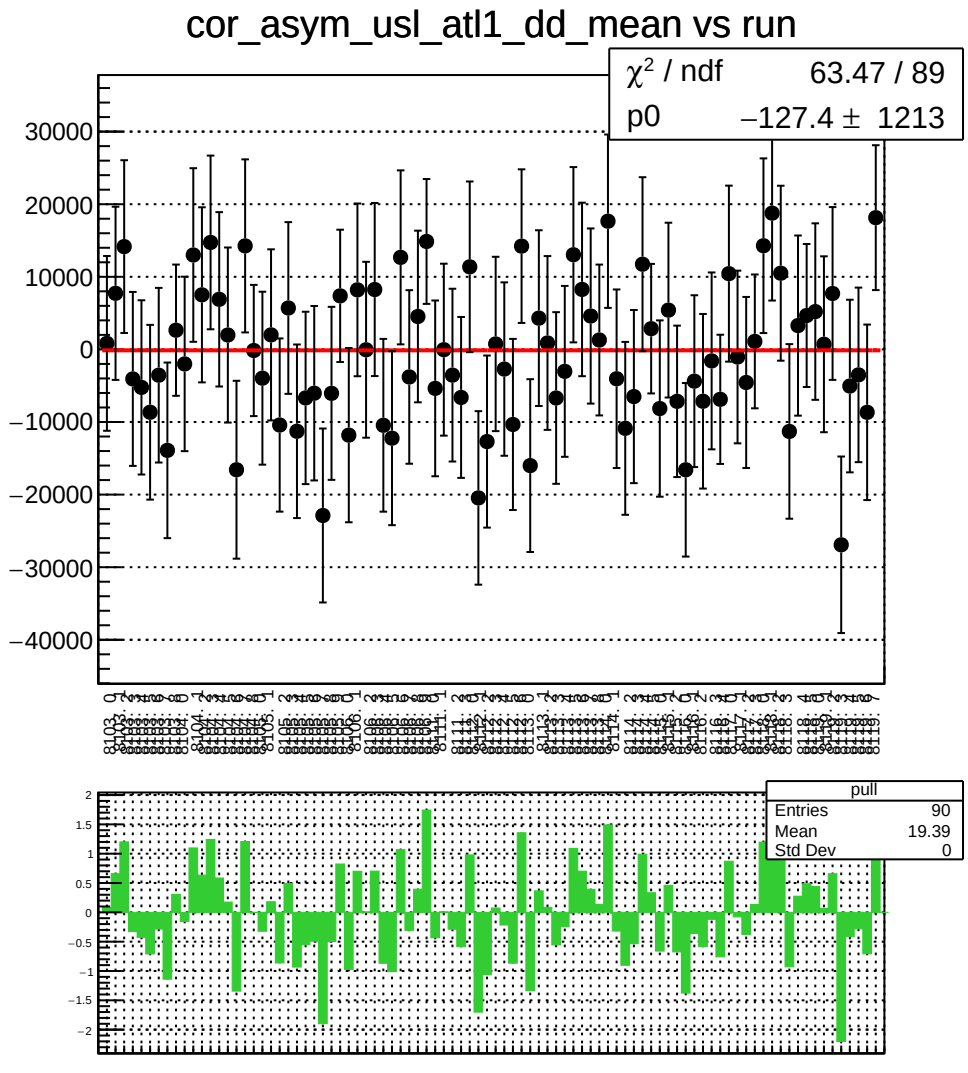

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 63.46 / 89
p0 −127.5 ± 1213
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 19.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.01649
Std Dev 0.8396
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

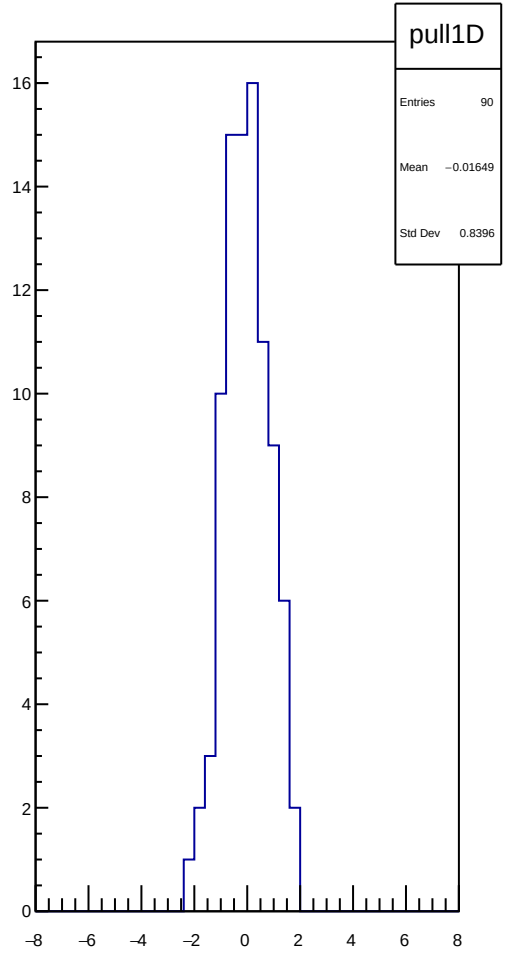

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 192.7 / 89
p0 1138 ± 0.8579
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100

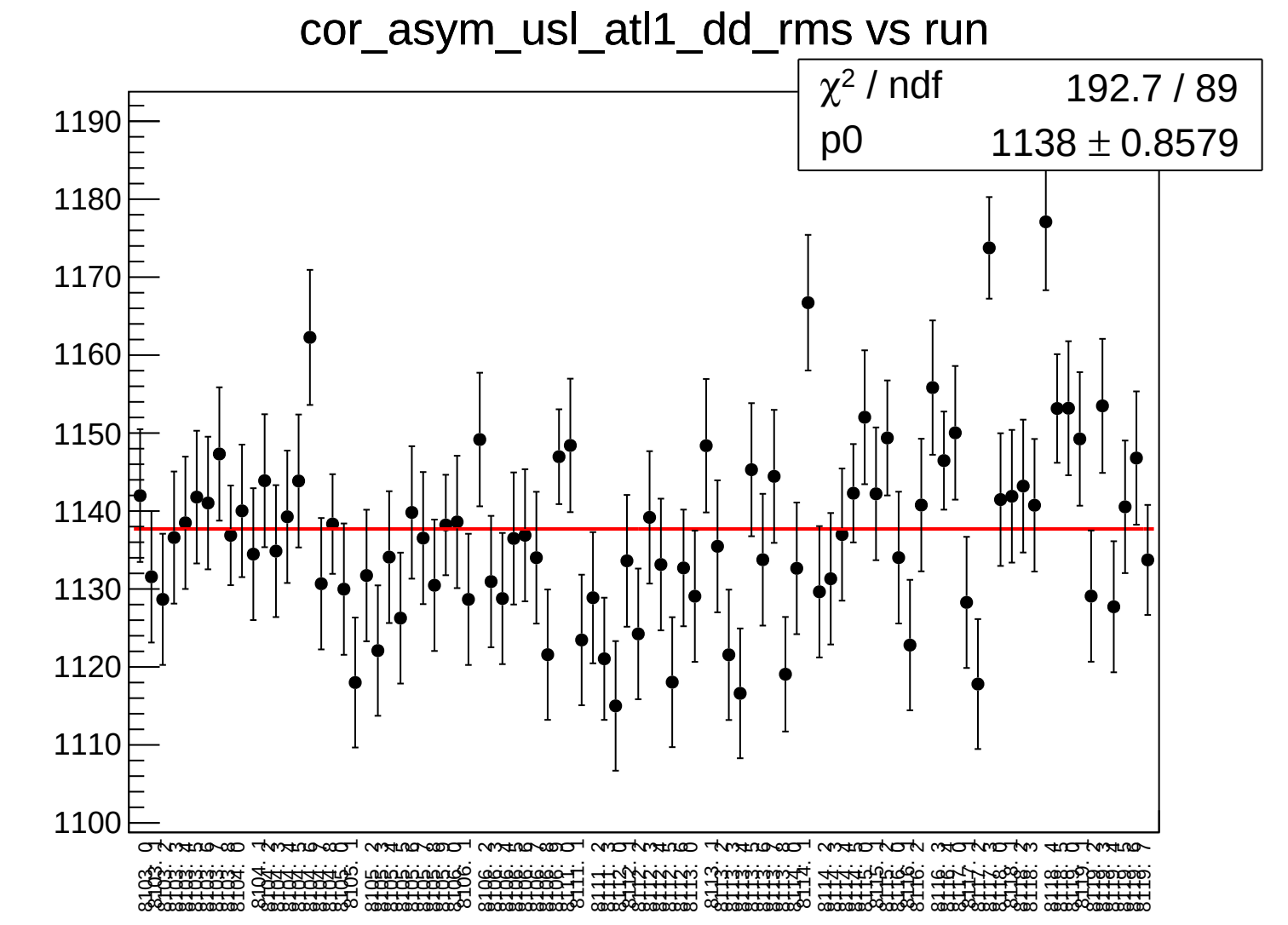

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 88.3 / 89
p0 −458.8 ± 1002
pull
Entries 90
Mean 233
Std Dev 0

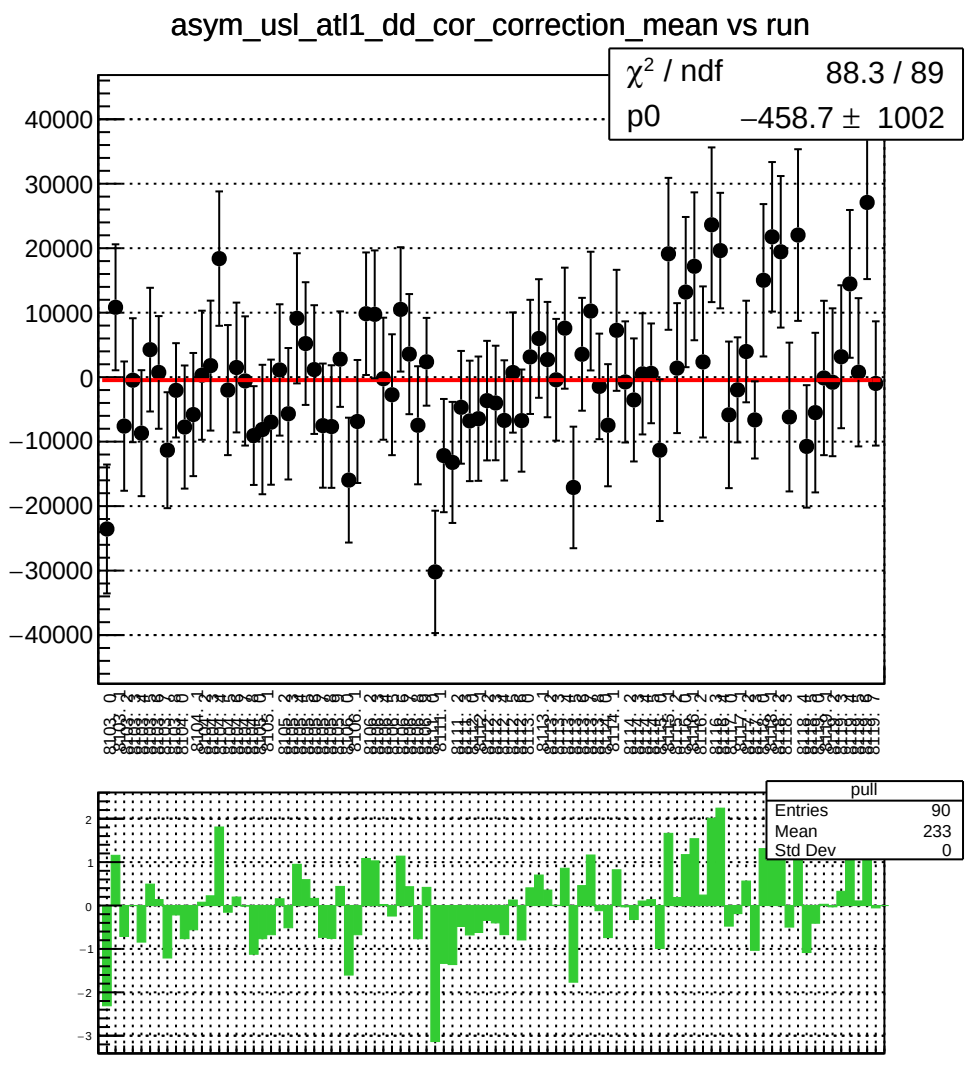

pull1D
Entries 90
Mean 0.04223
Std Dev 0.9896

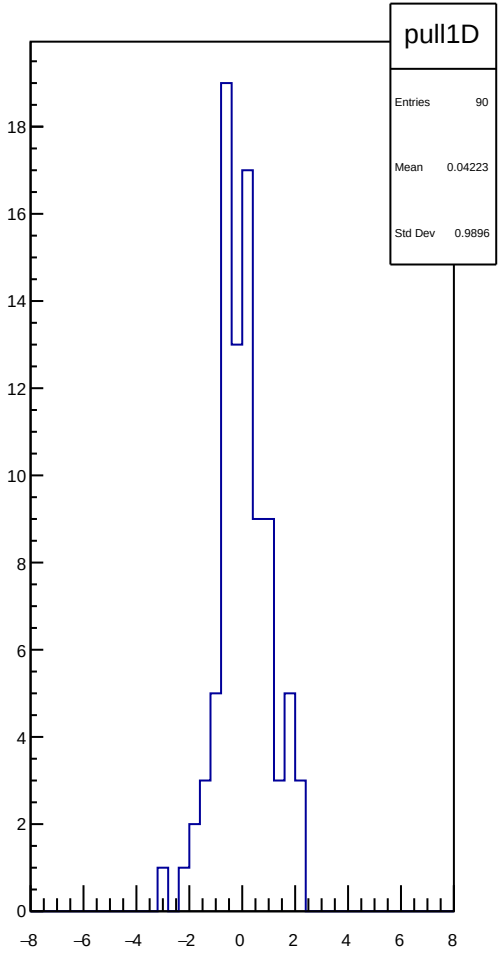

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.916e+04 / 89
p0 934.3 ± 0.7084
1300
1200
1100
1000
900
800
700

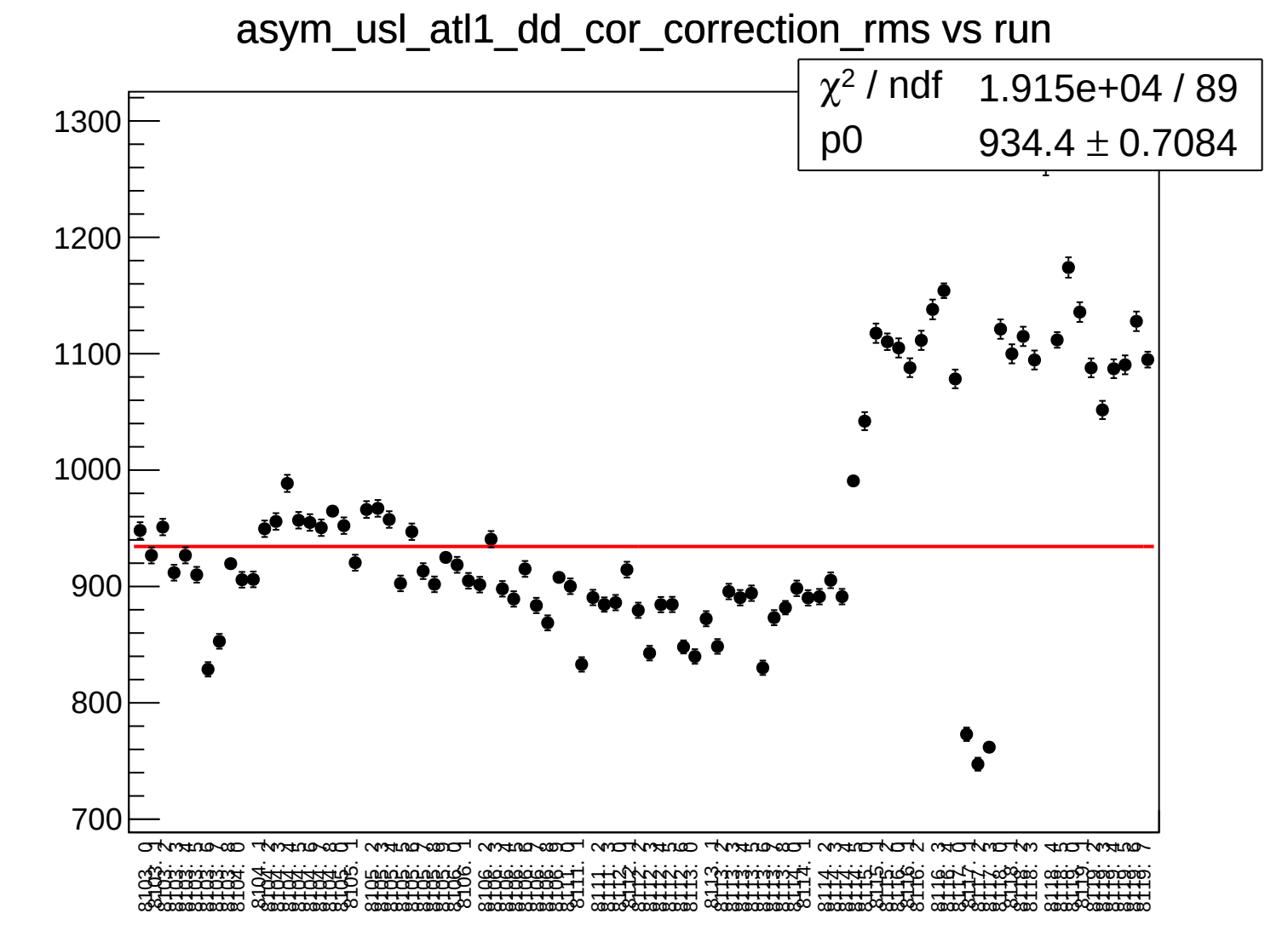

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 63.47 / 89
p0 −127.4 ± 1213
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 19.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

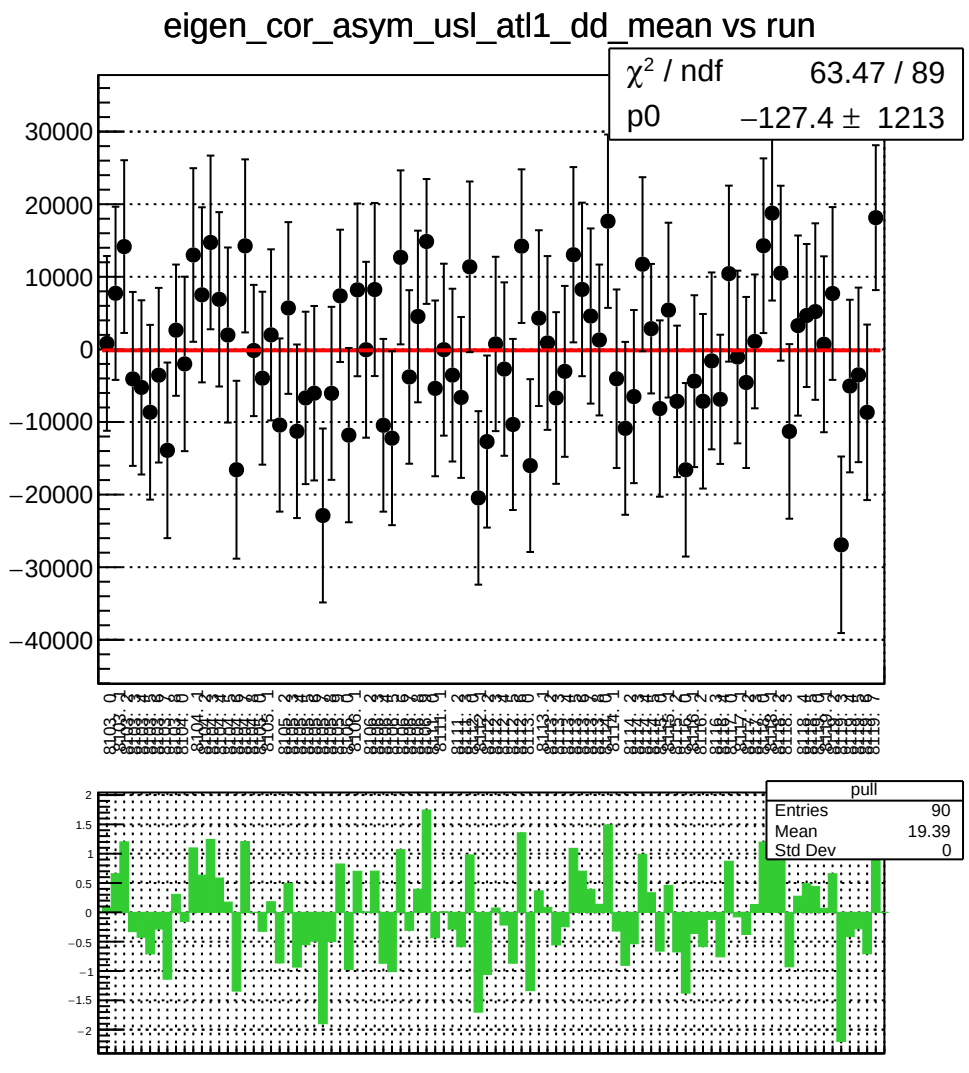

pull1D
Entries 90
Mean −0.01649
Std Dev 0.8396
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

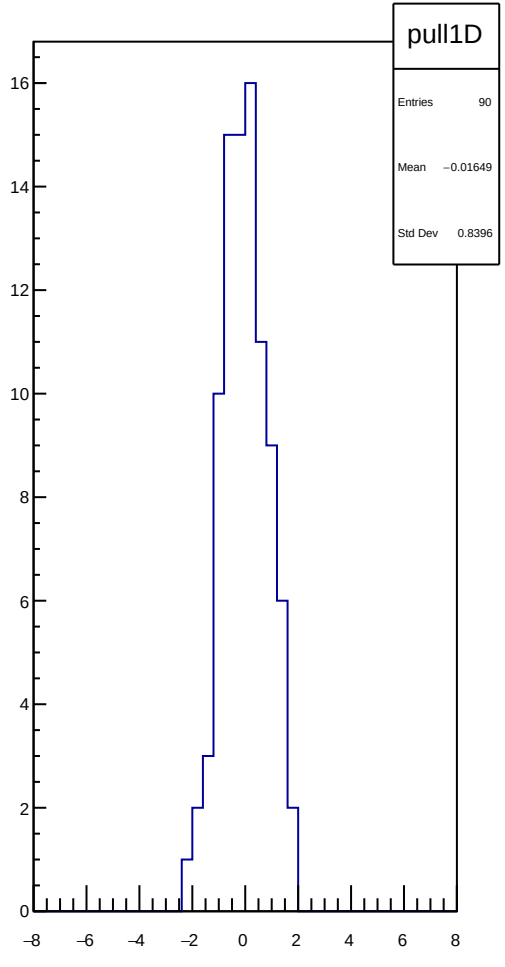

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 192.7 / 89
p0 1138 ± 0.8579
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100

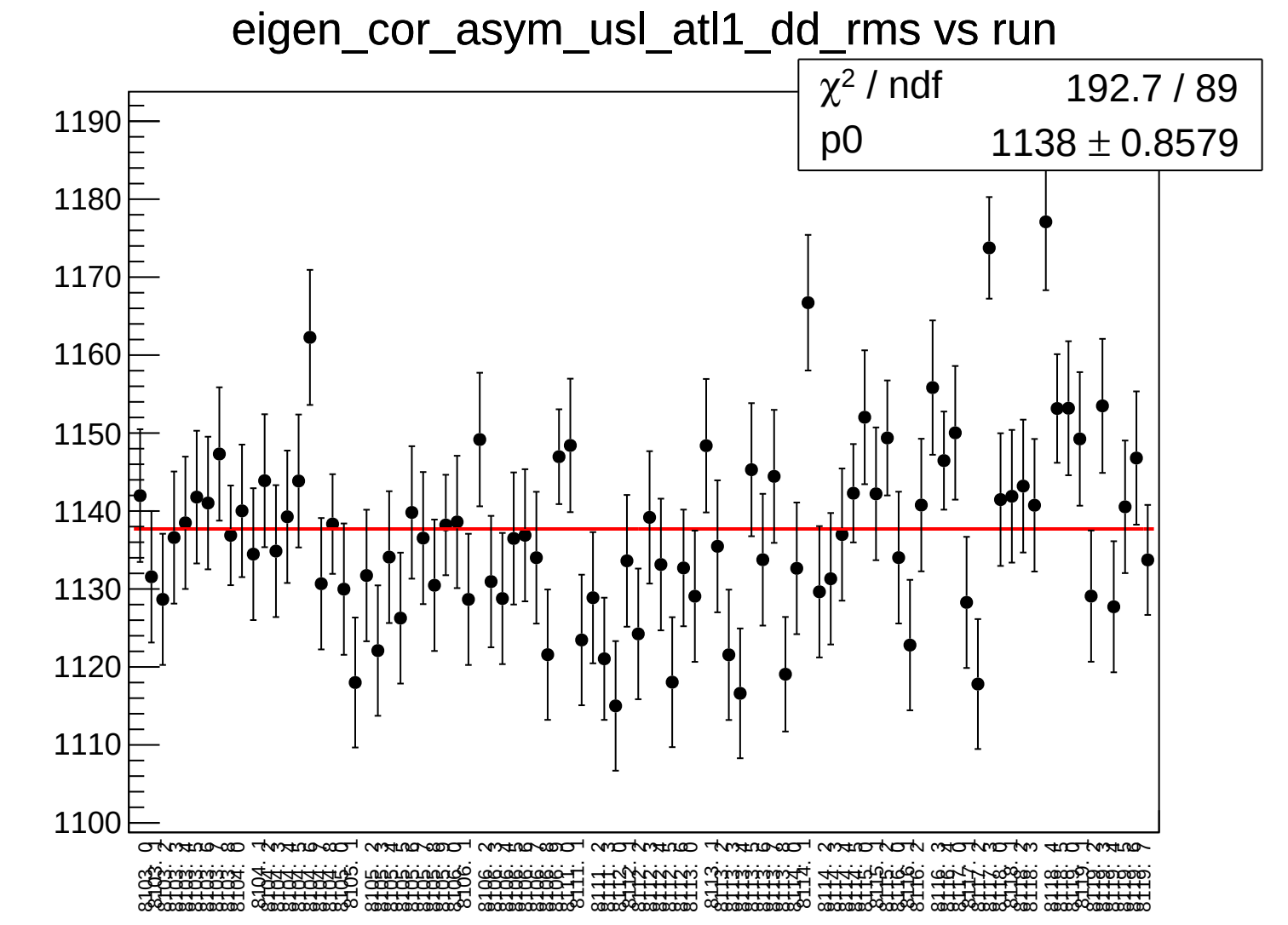

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 88.3 / 89
p0 −458.7 ± 1002
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 233
Std Dev 0
2
1
0
−1
−2
−3

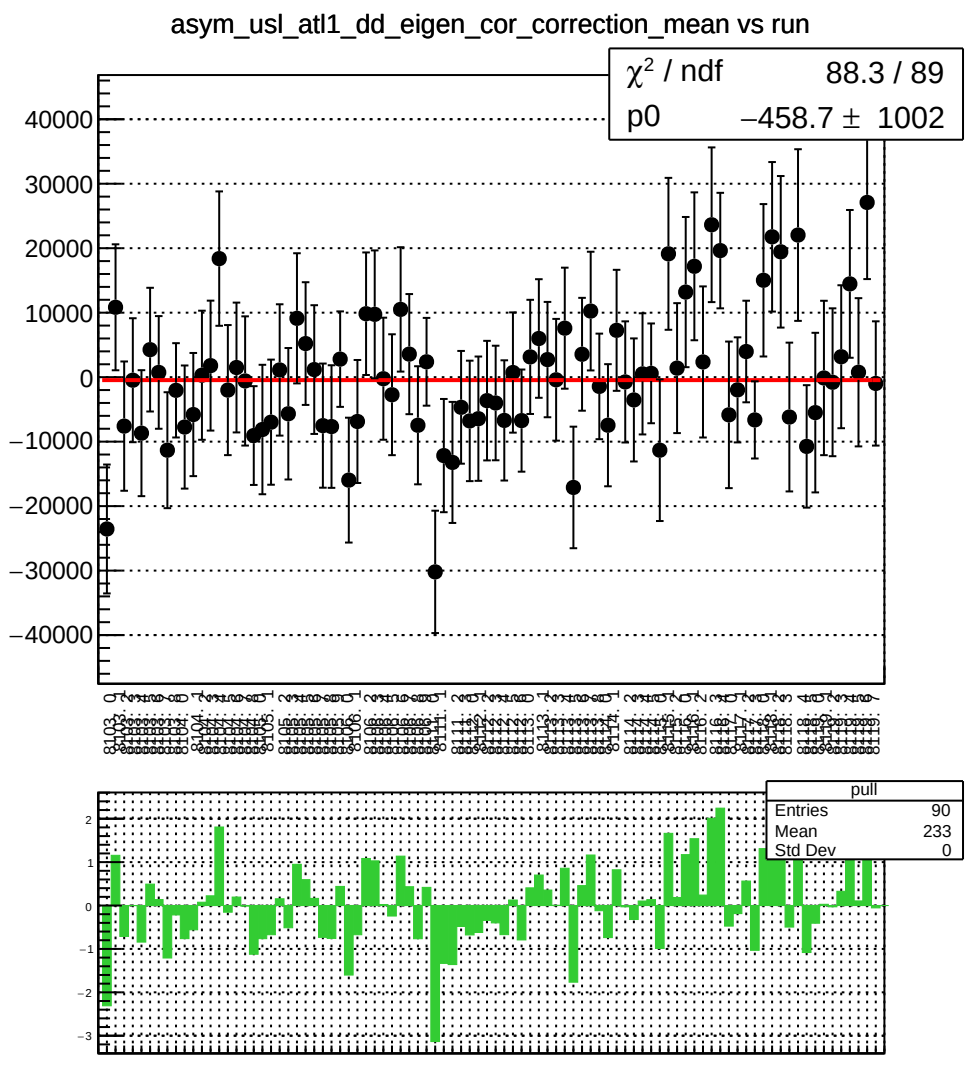

pull1D
Entries 90
Mean 0.04223
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

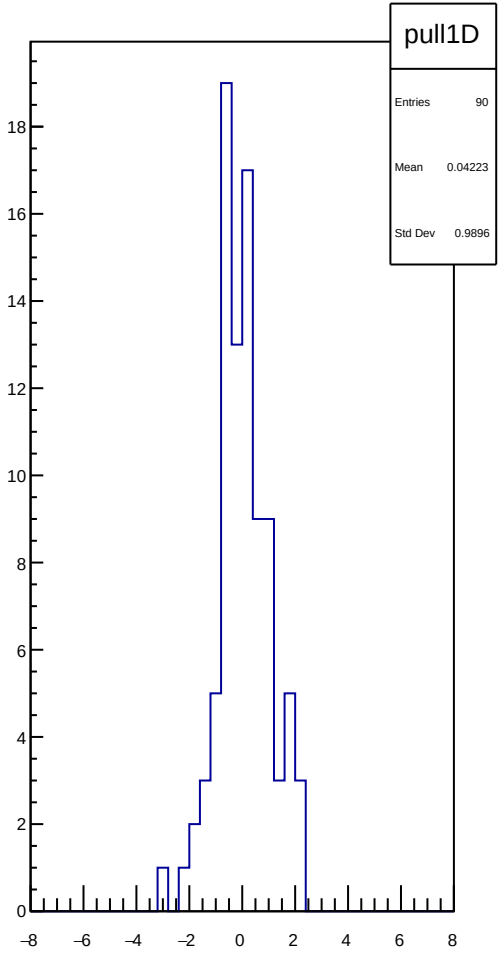

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.915e+04 / 89
p0 934.4 ± 0.7084
1300
1200
1100
1000
900
800
700

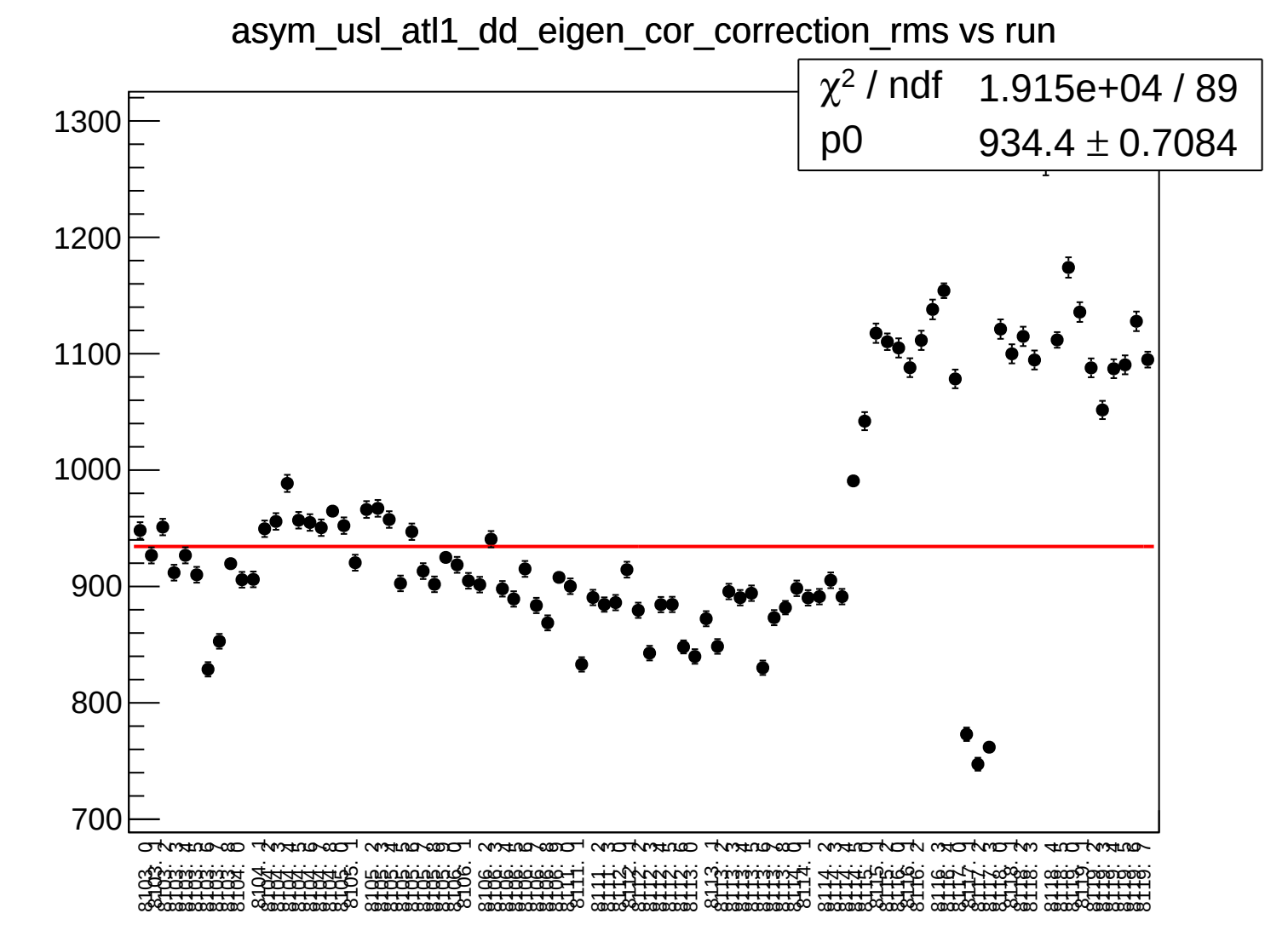

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 63.47 / 89
p0 −127.4 ± 1213
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 19.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

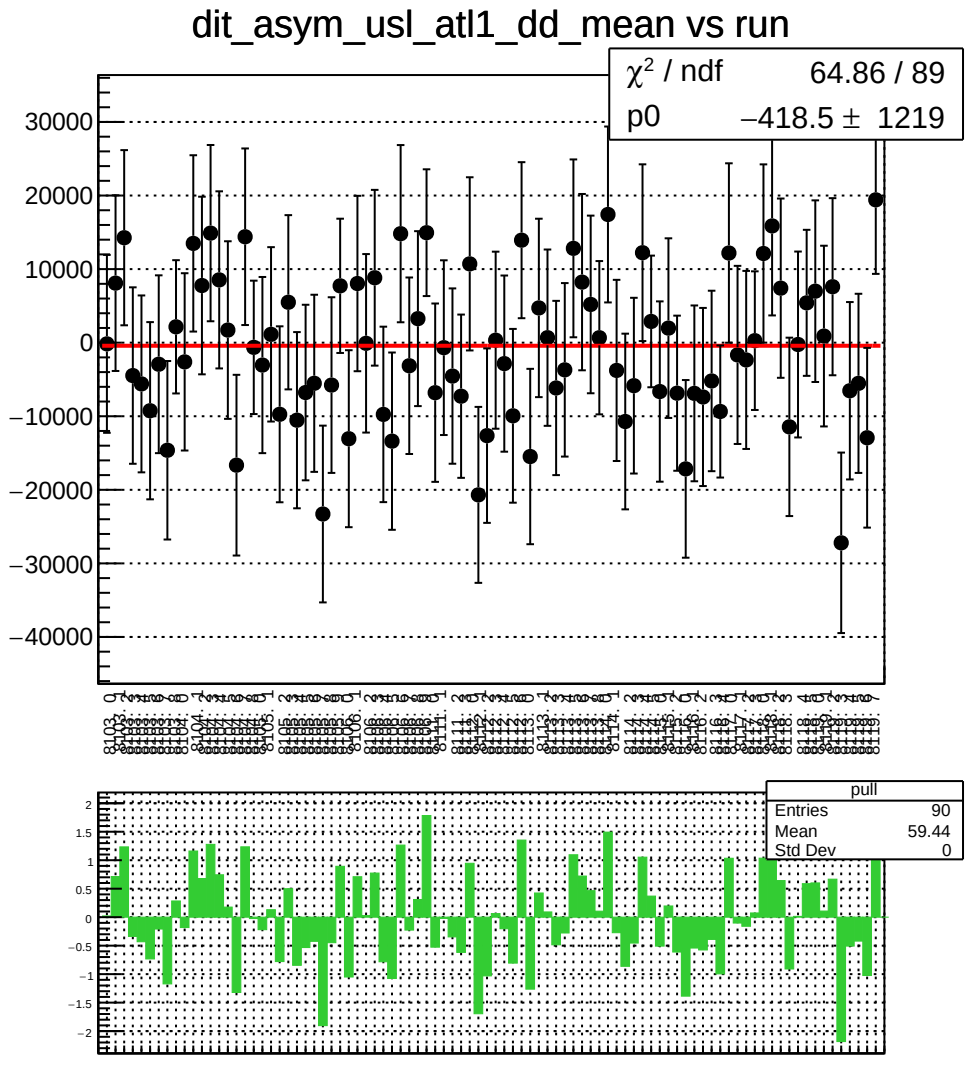

pull1D
Entries 90
Mean −0.01649
Std Dev 0.8396
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

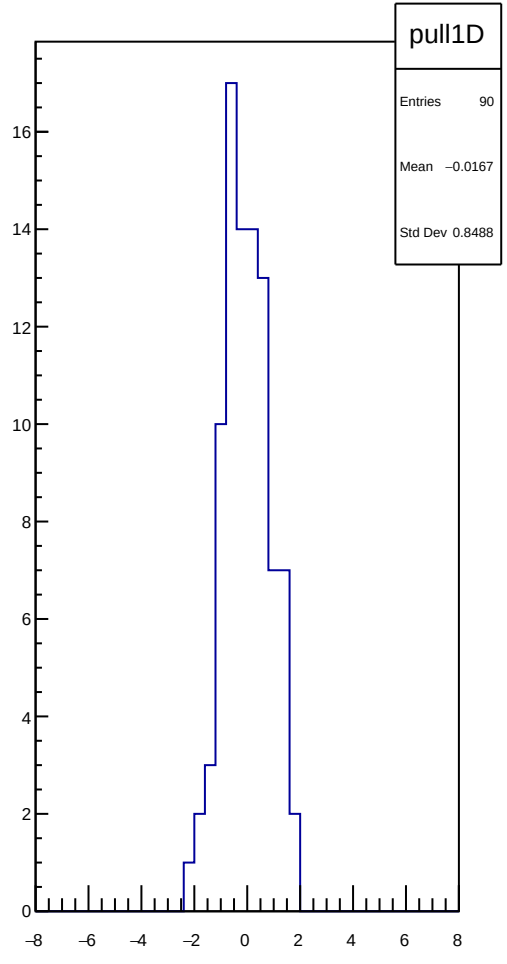

eigen_cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 192.7 / 89
p0 1138 ± 0.8579
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100

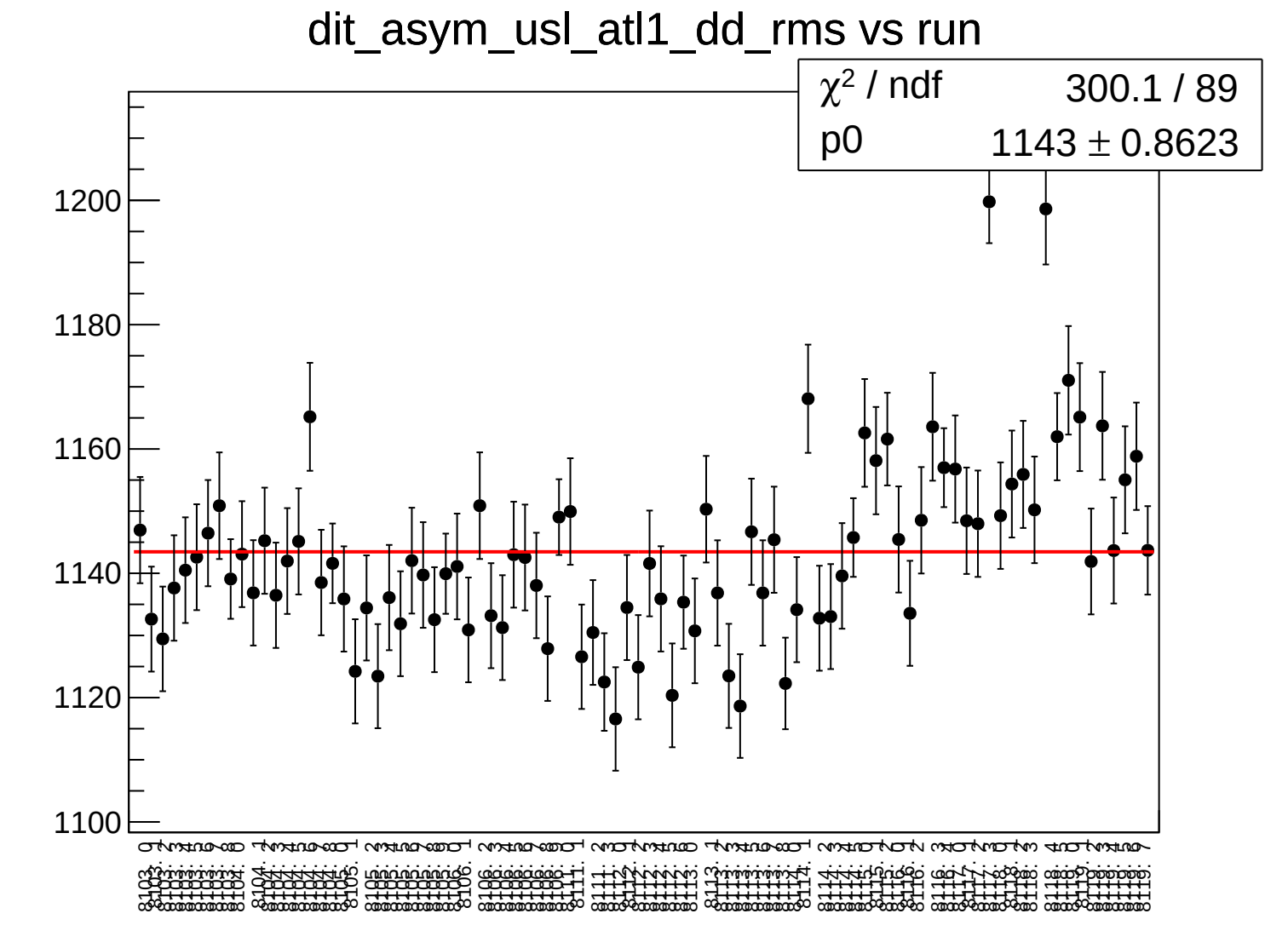

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.3 / 89
p0 −458.7 ± 1002
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 233
Std Dev 0
2
1
0
−1
−2
−3

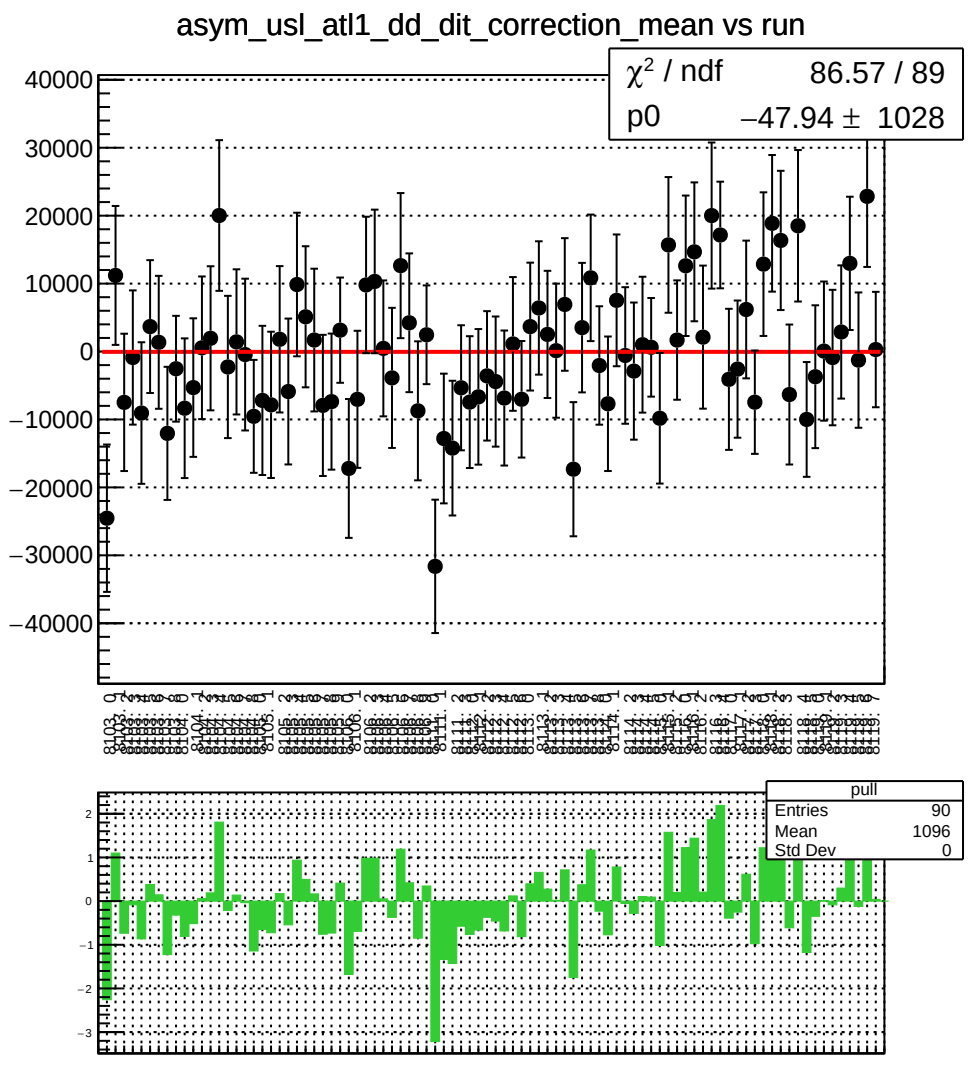

pull1D
Entries 90
Mean 0.04223
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

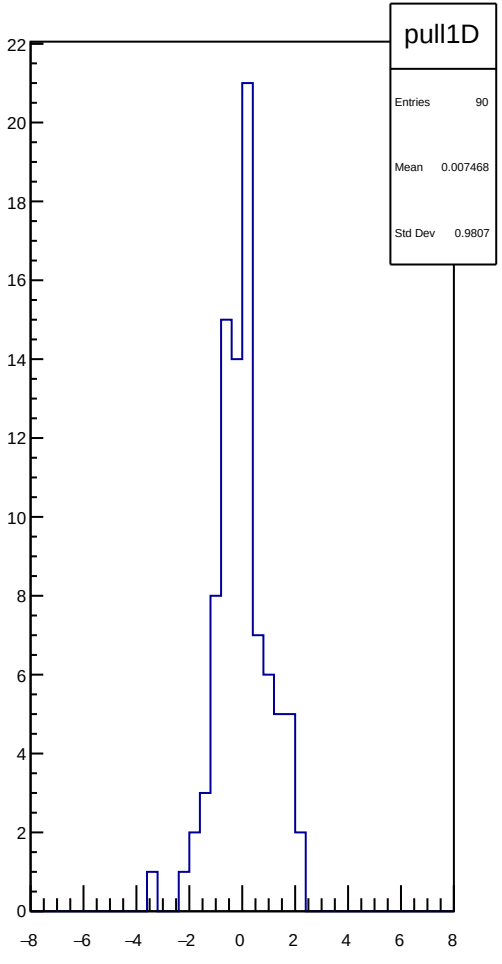

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.915e+04 / 89
p0 934.4 ± 0.7084
1300
1200
1100
1000
900
800
700

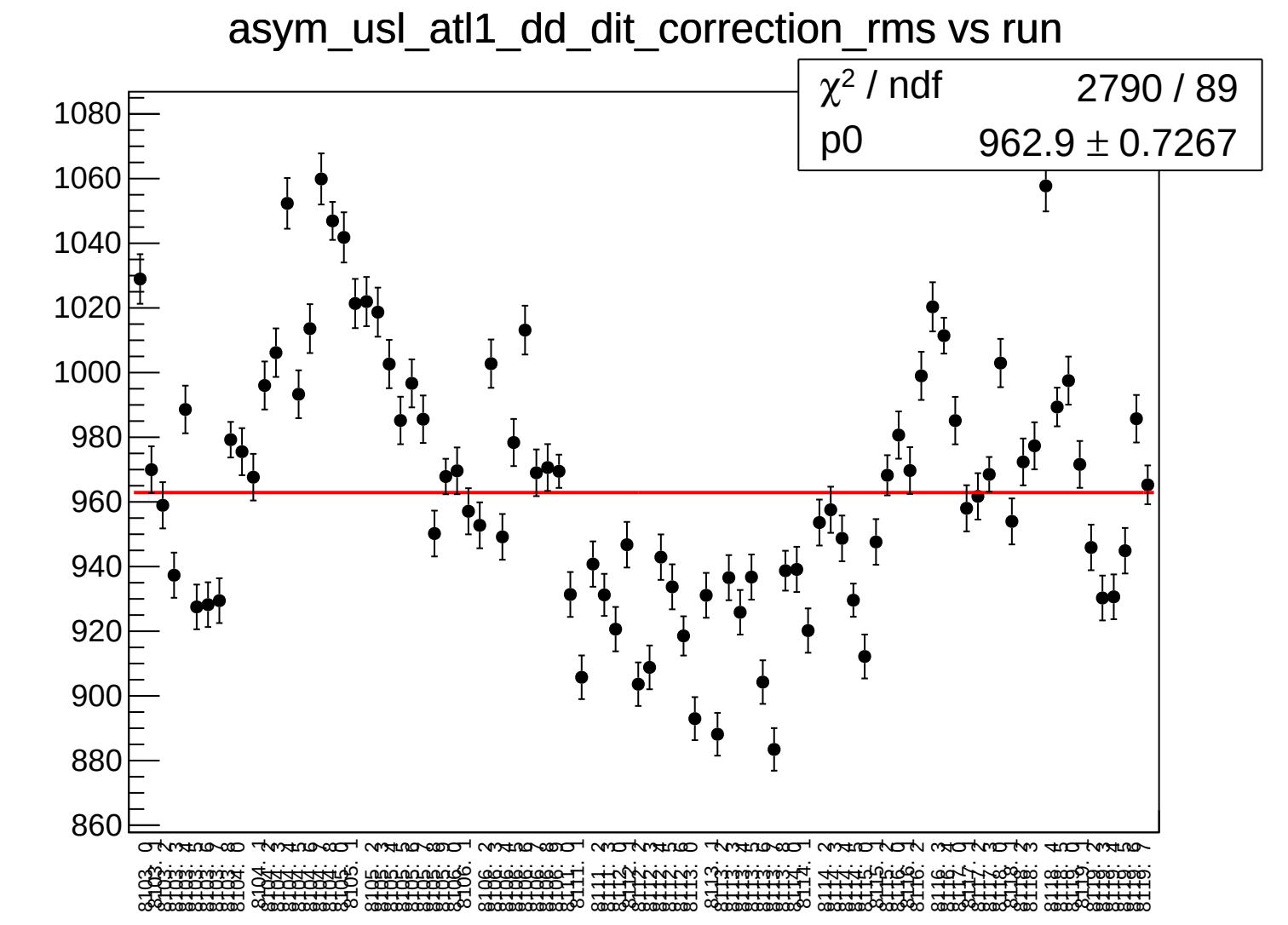

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.86 / 89
p0 −418.5 ± 1219
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 59.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

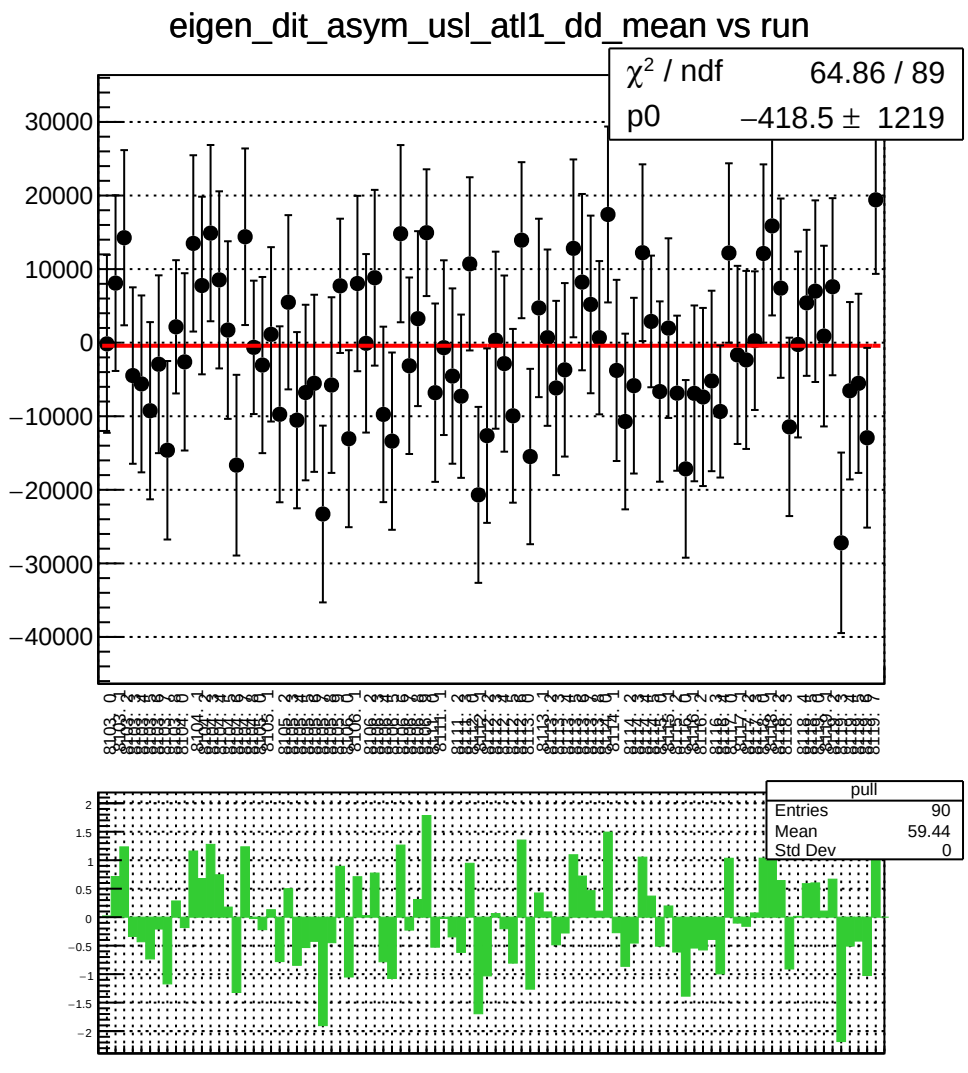

pull1D
Entries 90
Mean −0.0167
Std Dev 0.8488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

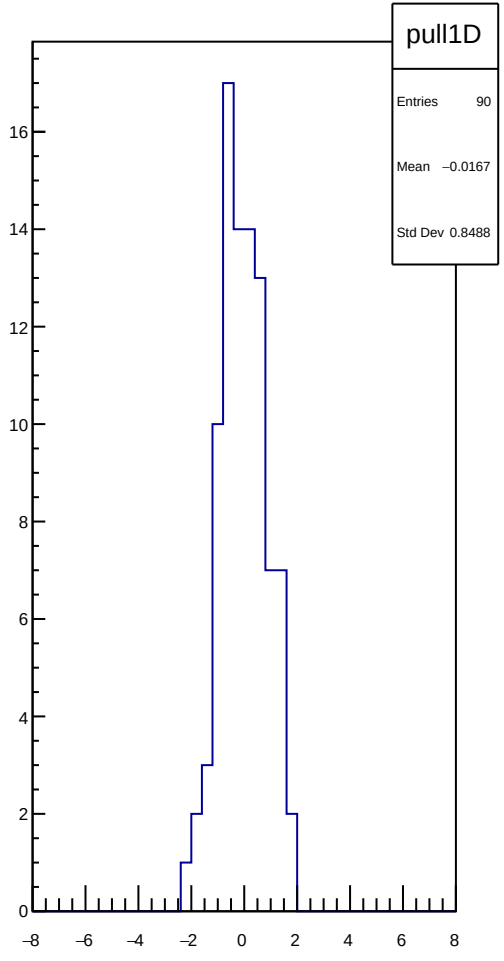

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 300.1 / 89
p0 1143 ± 0.8623
1200
1180
1160
1140
1120
1100

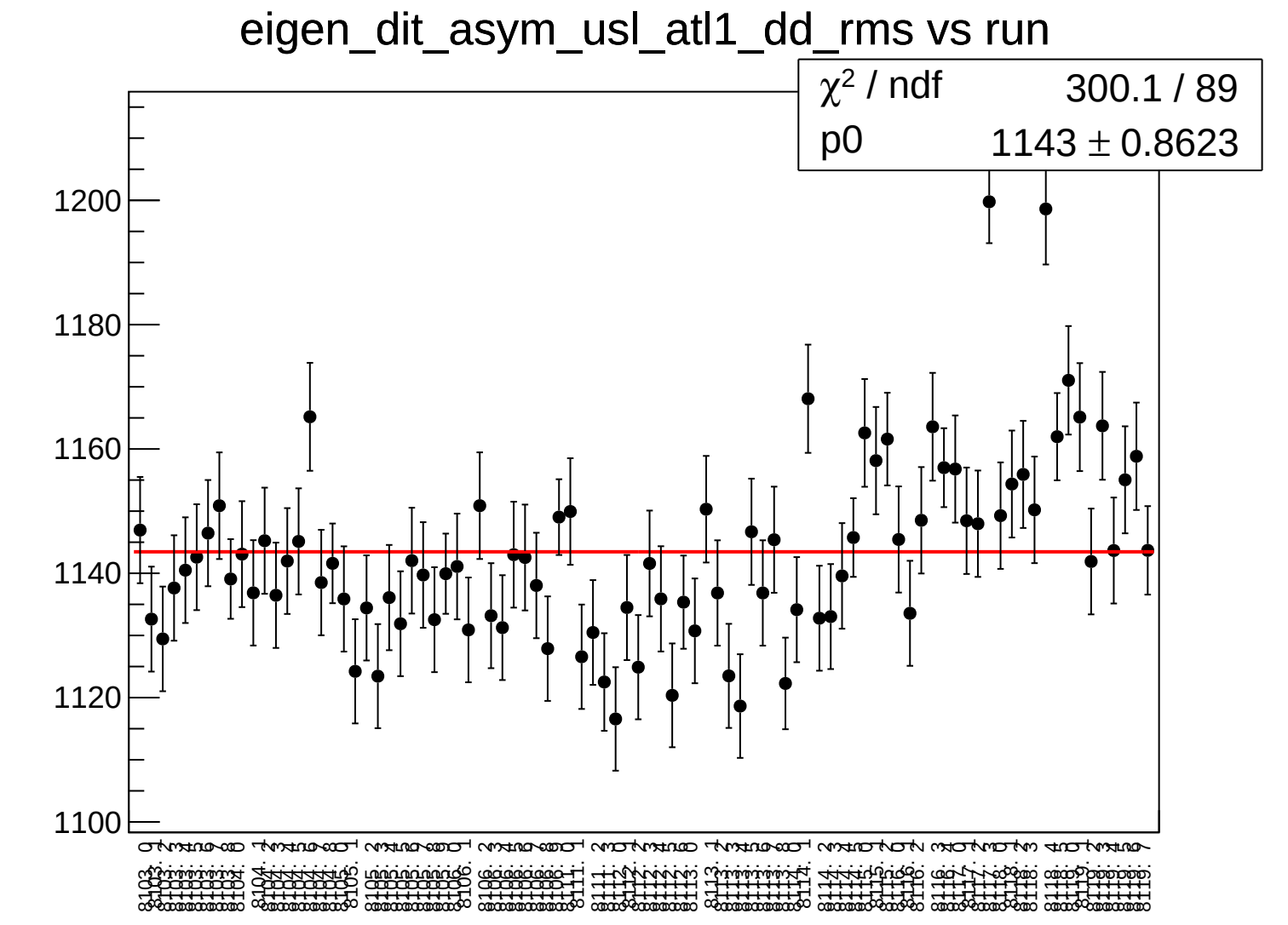

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 86.57 / 89
p0 −47.94 ± 1028
pull
Entries 90
Mean 1096
Std Dev 0

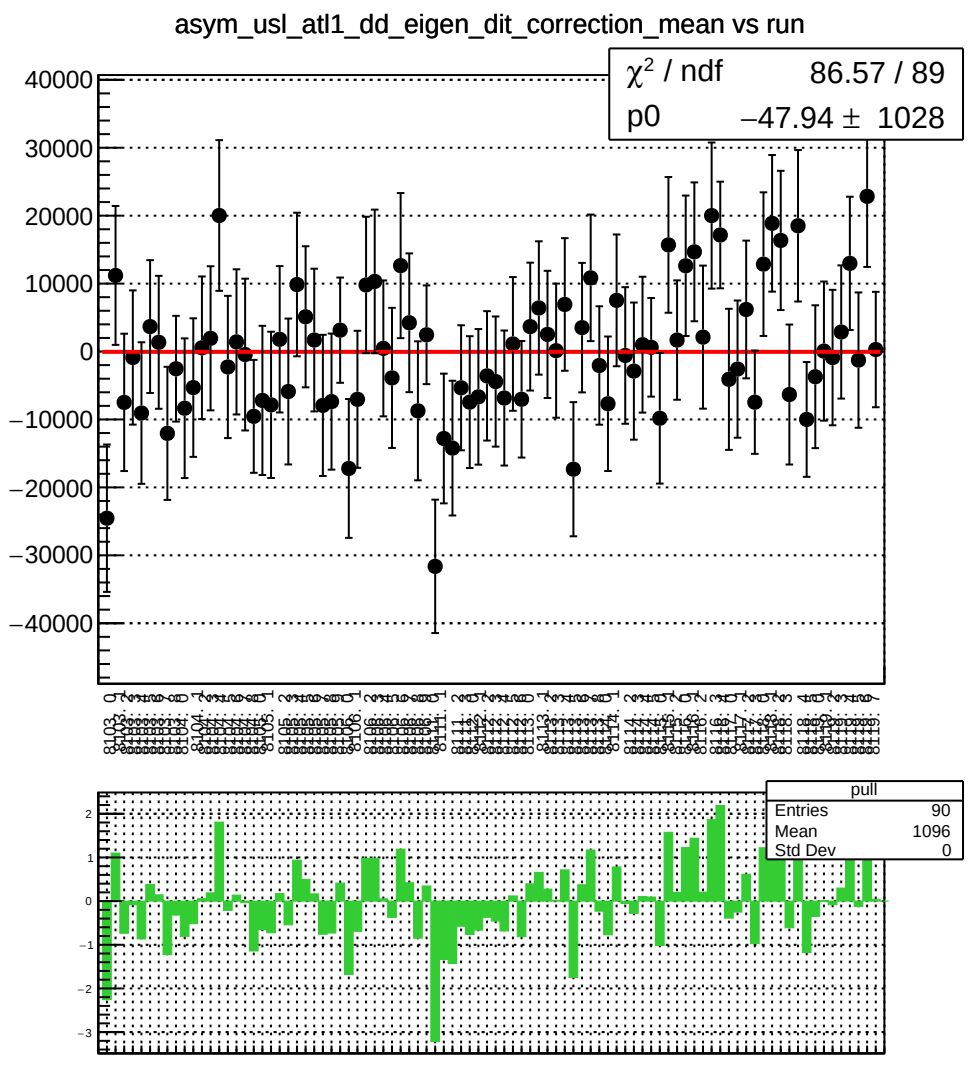

pull1D
Entries 90
Mean 0.007468
Std Dev 0.9807

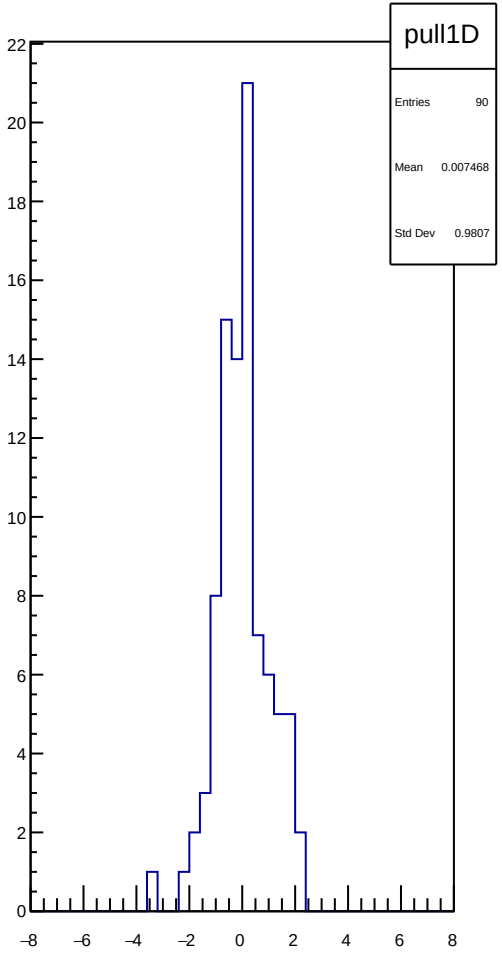

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 2790 / 89
p0 962.9 ± 0.7267
1080
1060
1040
1020
1000
980
960
940
920
900
880
860

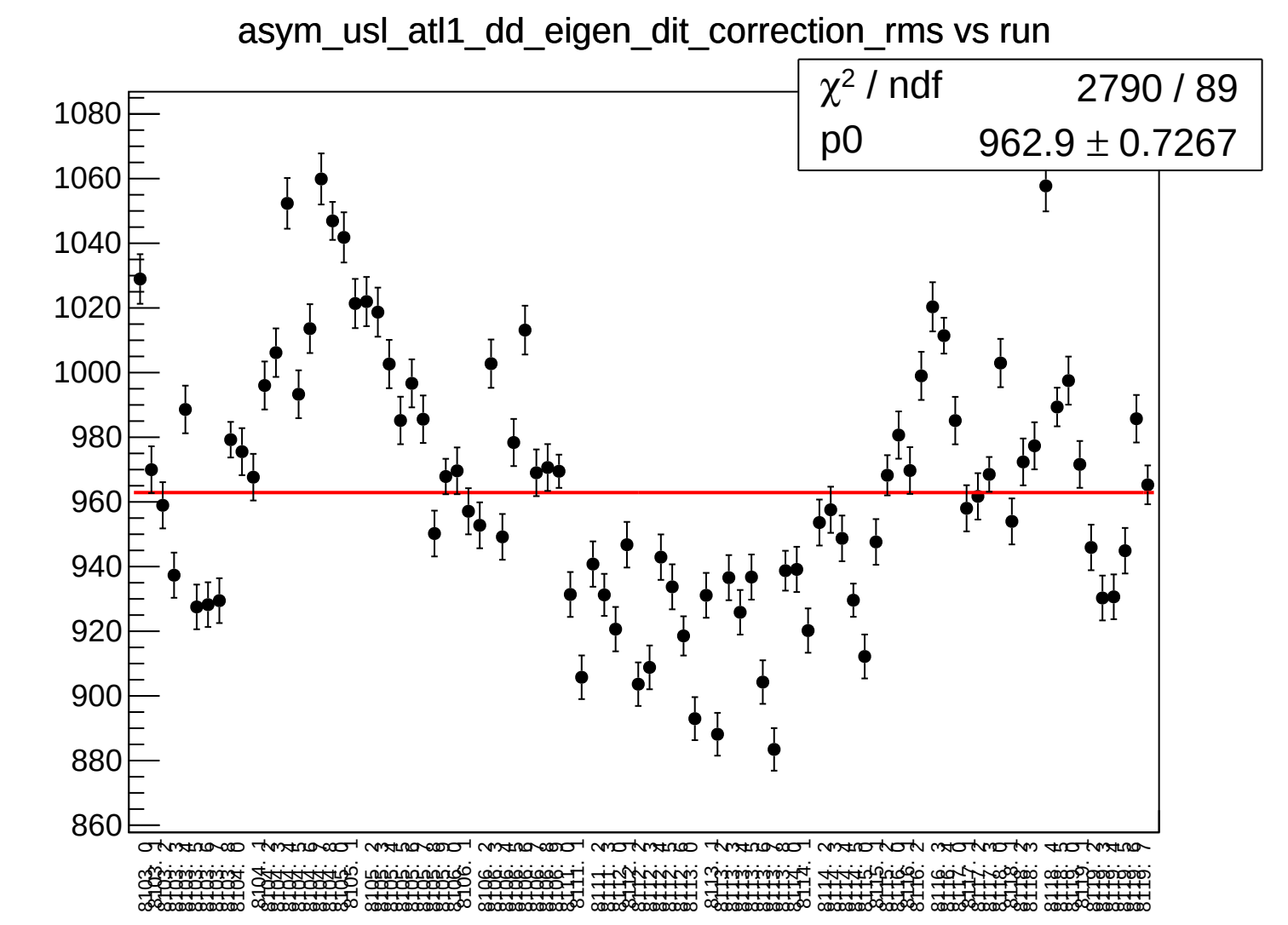

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 64.86 / 89
p0 −418.5 ± 1219
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 59.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

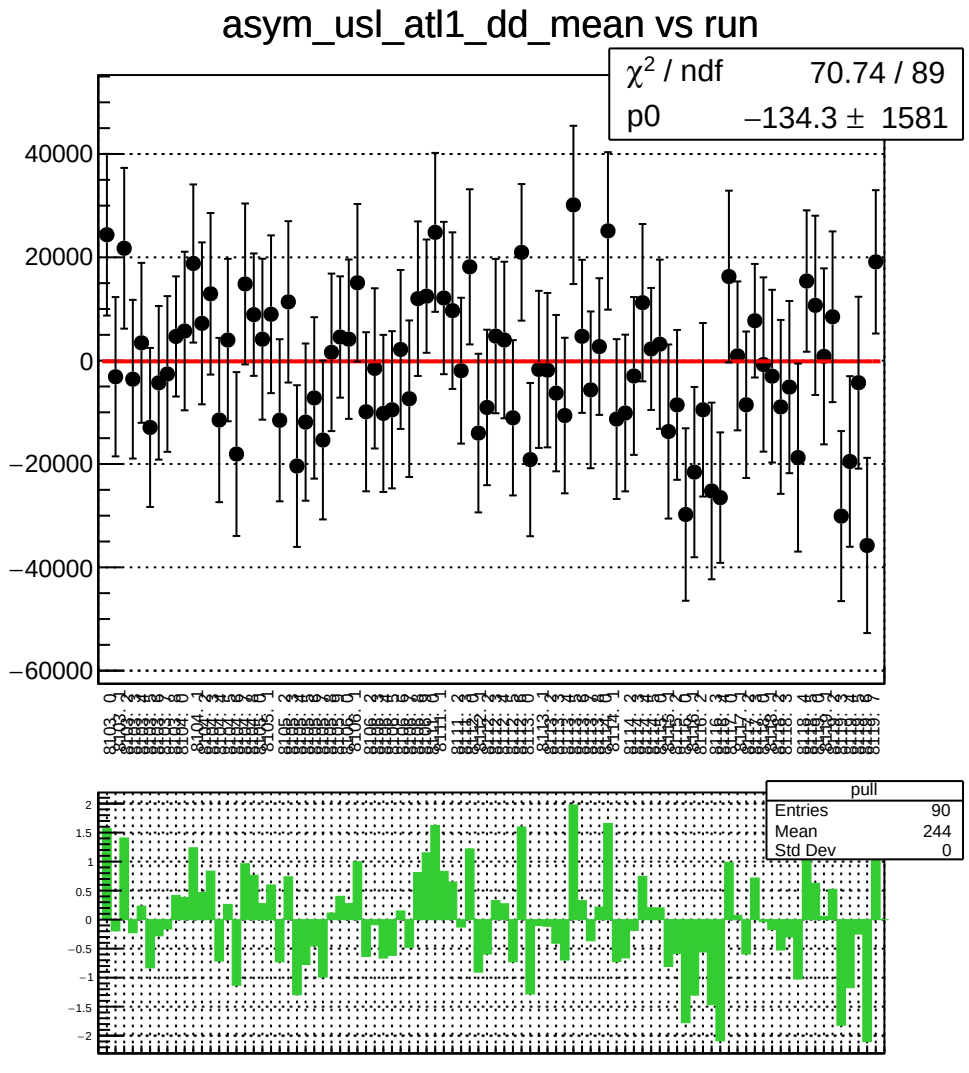

pull1D
Entries 90
Mean −0.0167
Std Dev 0.8488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

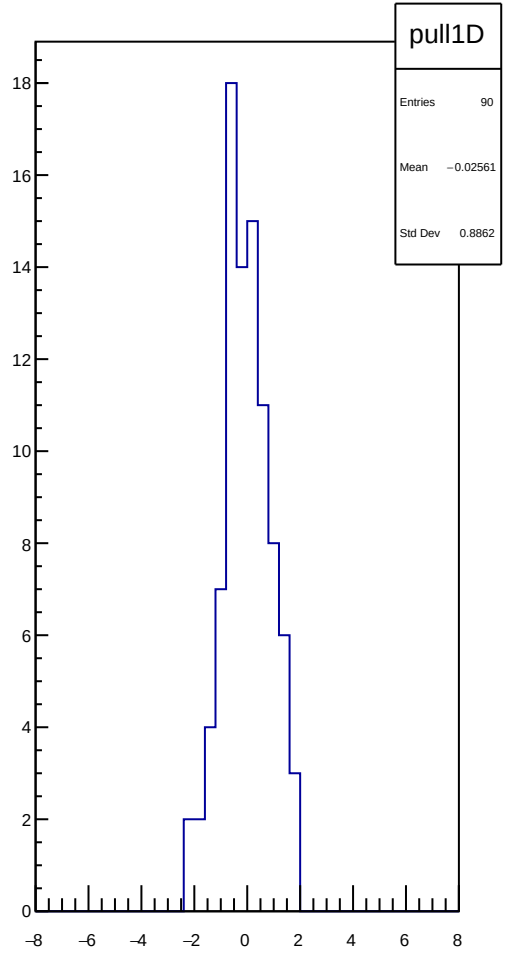

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 300.1 / 89
p0 1143 ± 0.8623
1200
1180
1160
1140
1120
1100

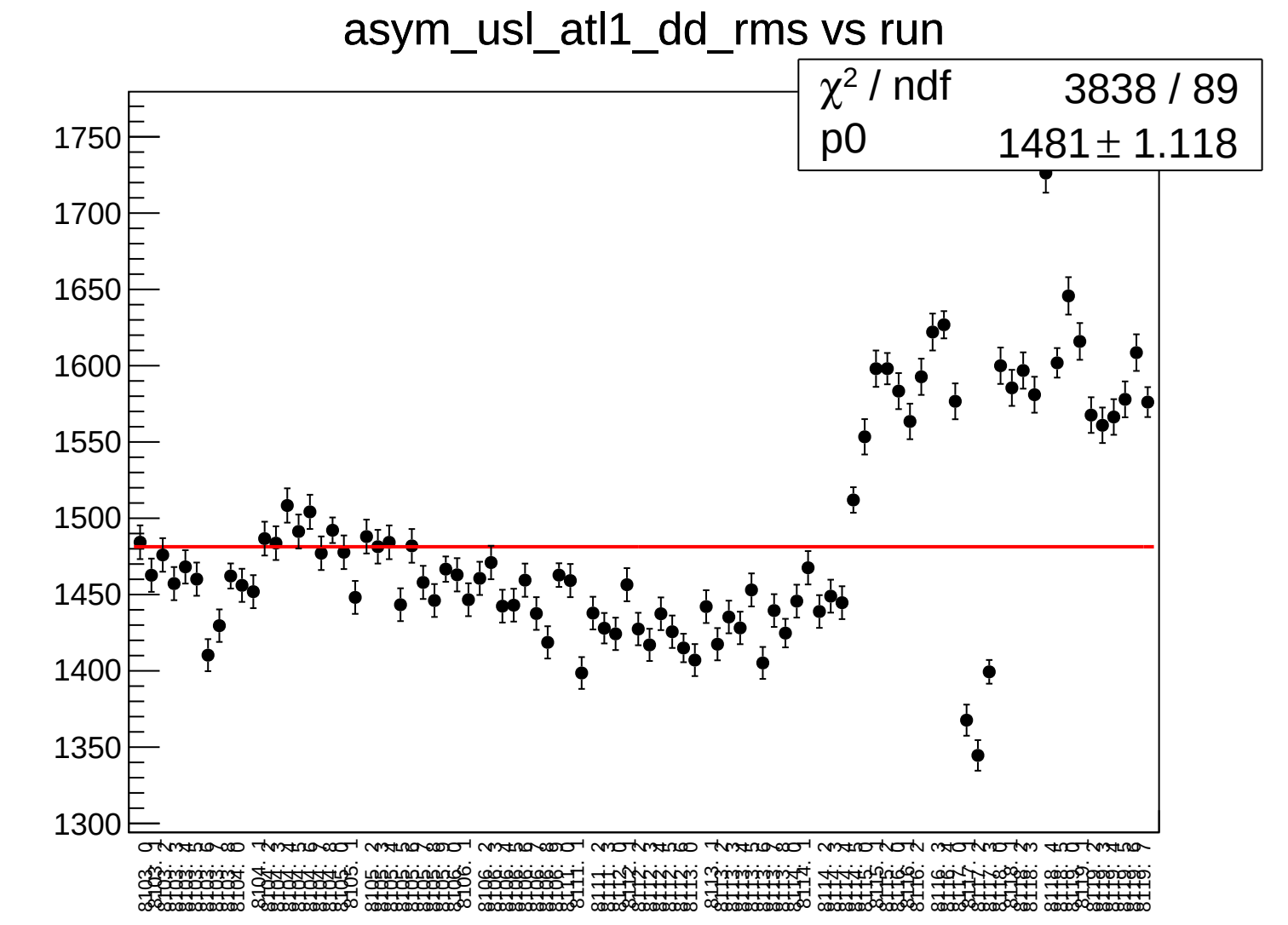

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.57 / 89
p0 −47.94 ± 1028
pull
Entries 90
Mean 1096
Std Dev 0

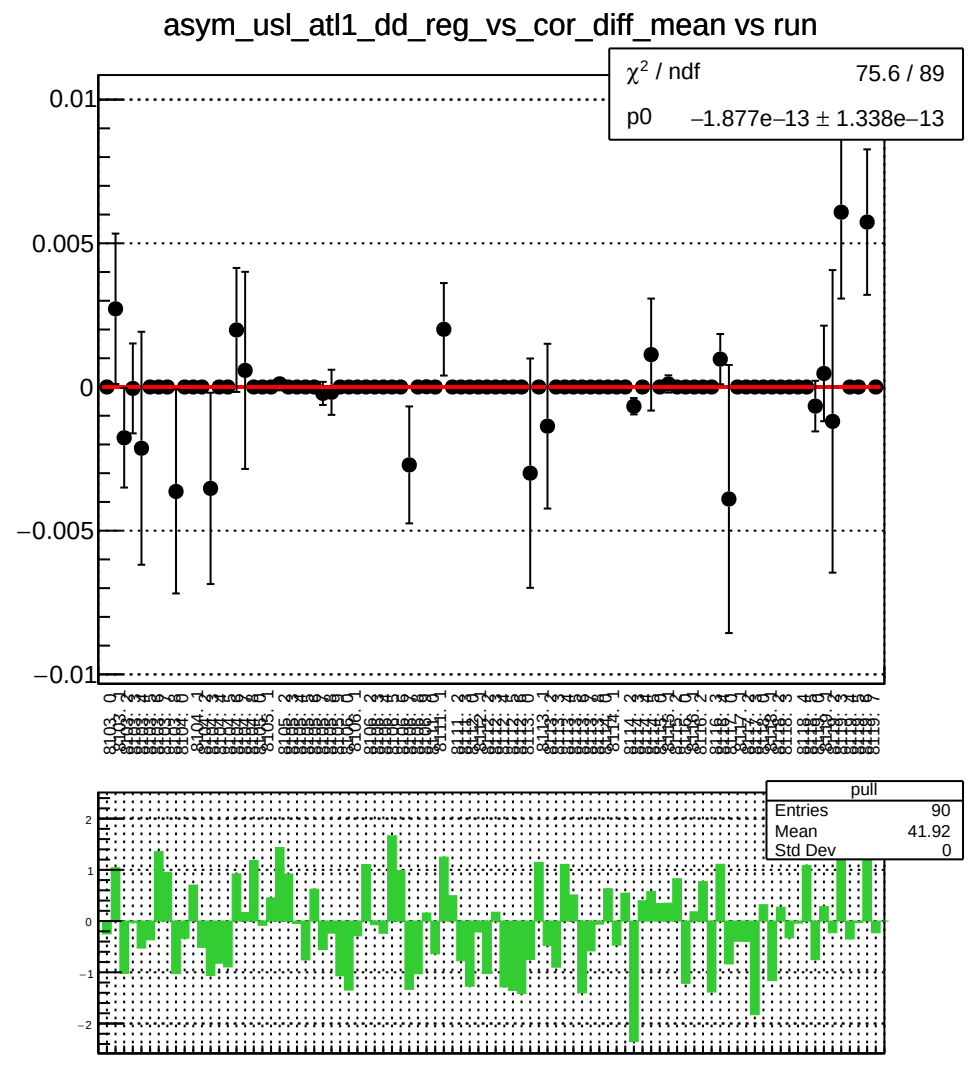

pull1D
Entries 90
Mean 0.007468
Std Dev 0.9807

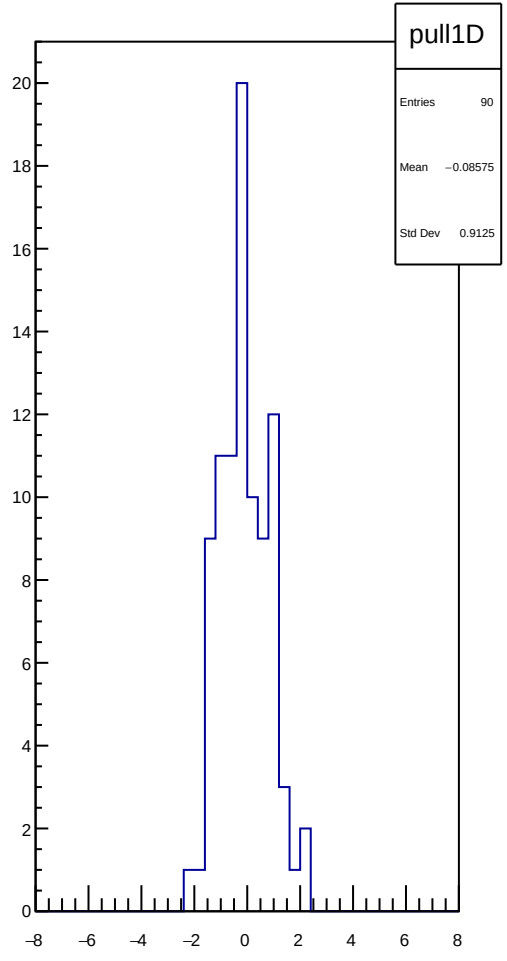

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2790 / 89
p0 962.9 ± 0.7267
1080
1060
1040
1020
1000
980
960
940
920
900
880
860

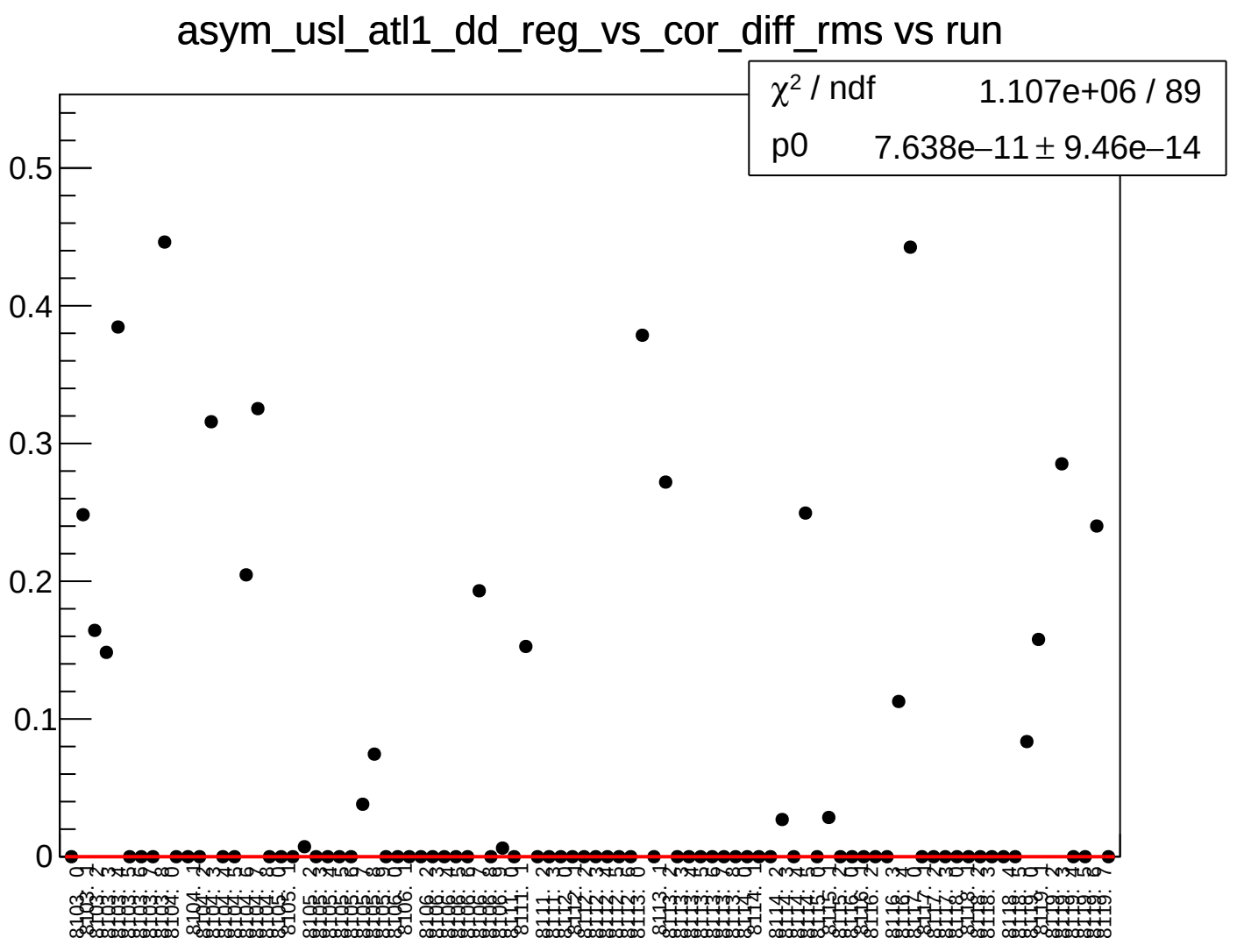

asym_usl_atl1_dd_mean vs run
χ² / ndf 70.74 / 89
p0 −134.3 ± 1581
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 244
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

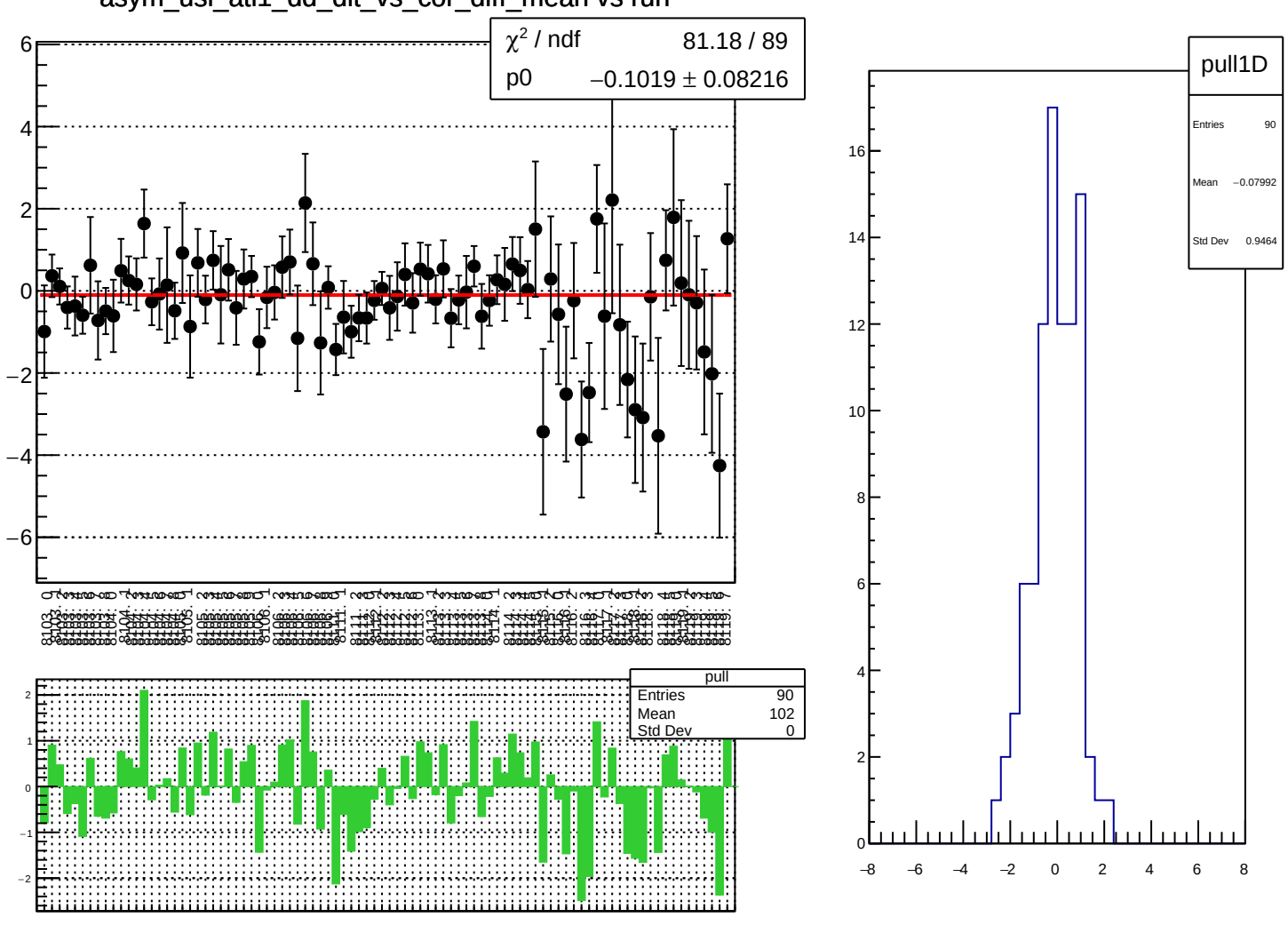

pull1D
Entries 90
Mean −0.02561
Std Dev 0.8862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

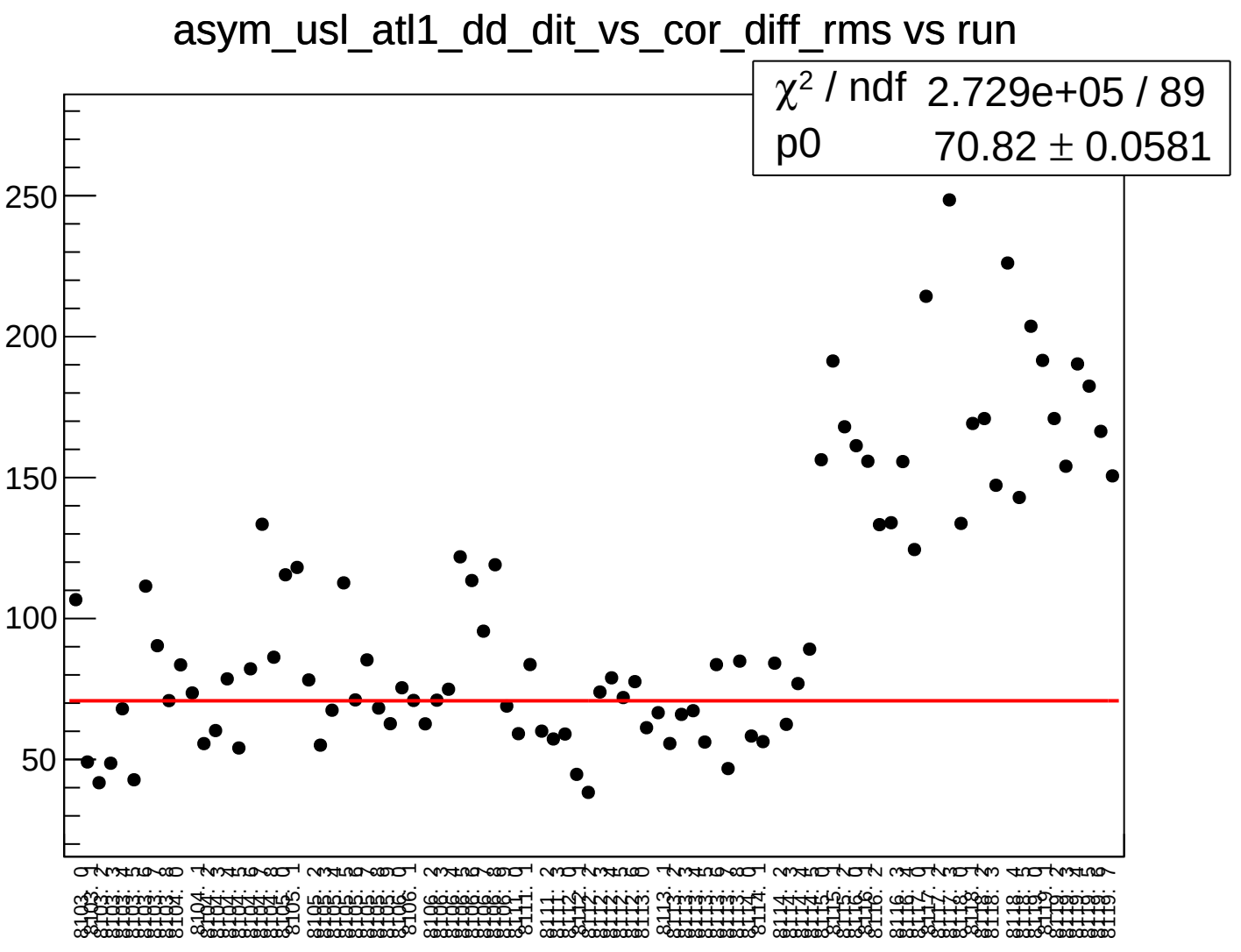

asym_usl_atl1_dd_rms vs run
χ² / ndf 3838 / 89
p0 1481 ± 1.118
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

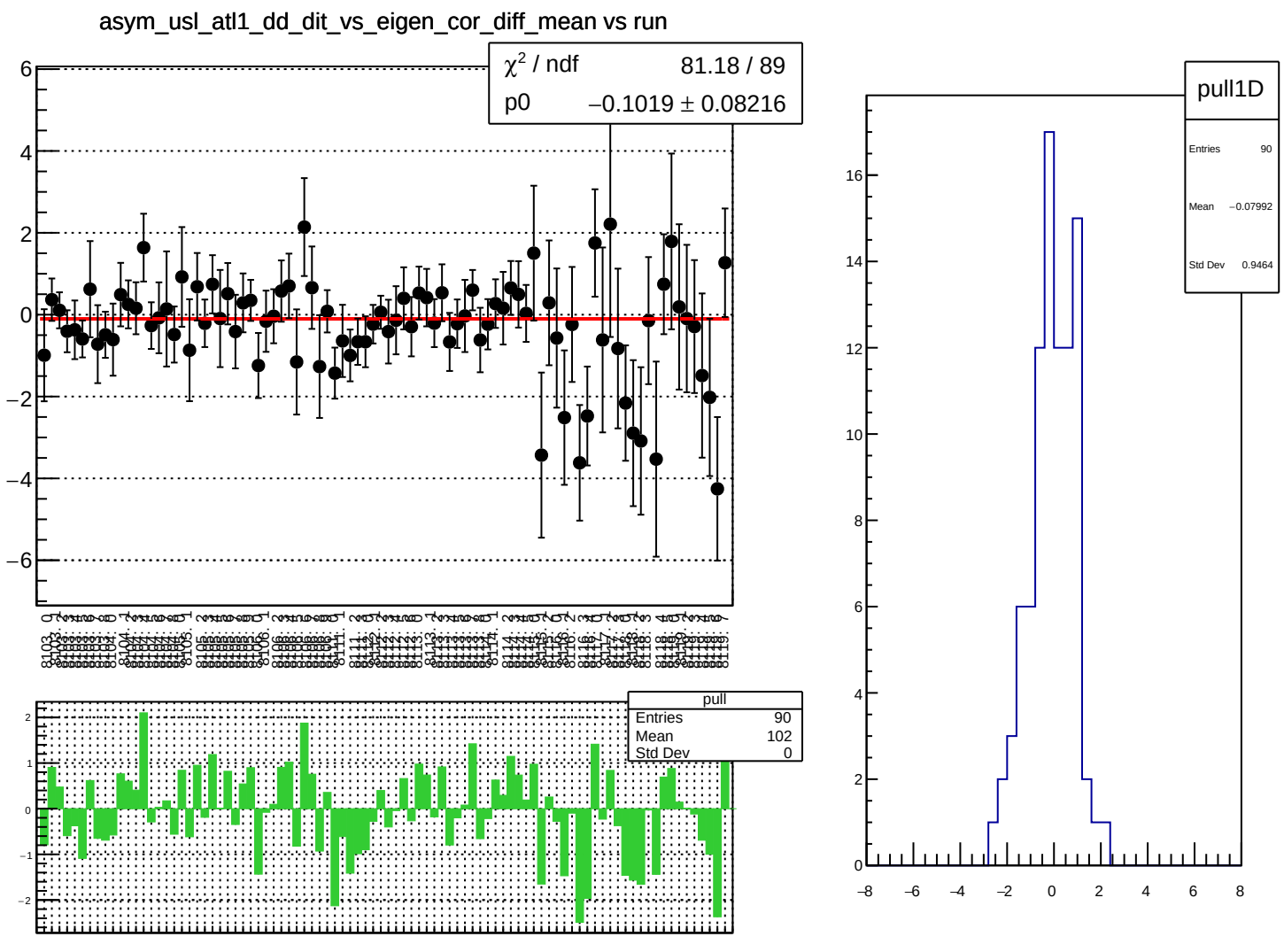

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.6 / 89
p0 −1.877e−13 ± 1.338e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean 41.92
Std Dev 0
2
1
0
−1
−2

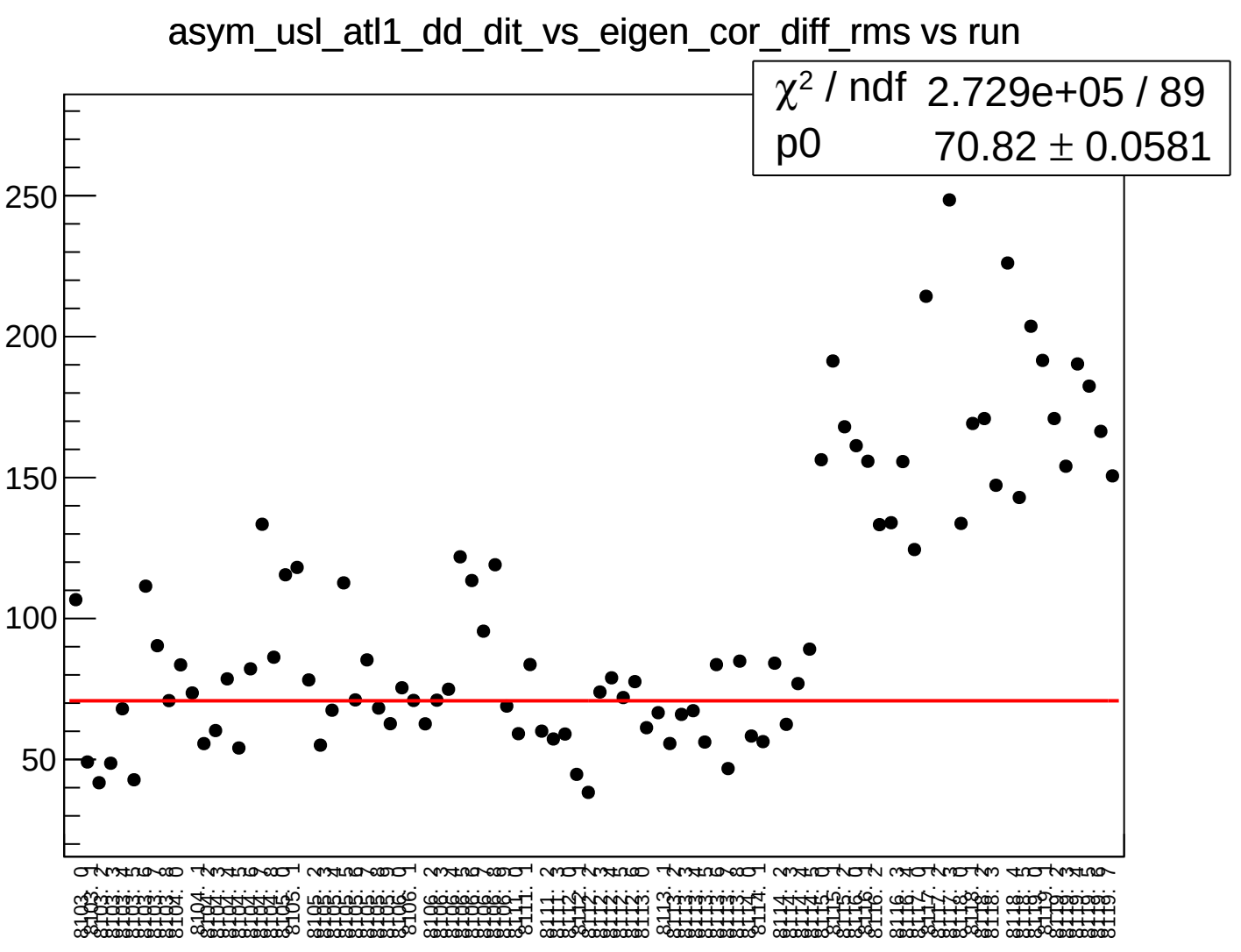

pull1D
Entries 90
Mean −0.08575
Std Dev 0.9125
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

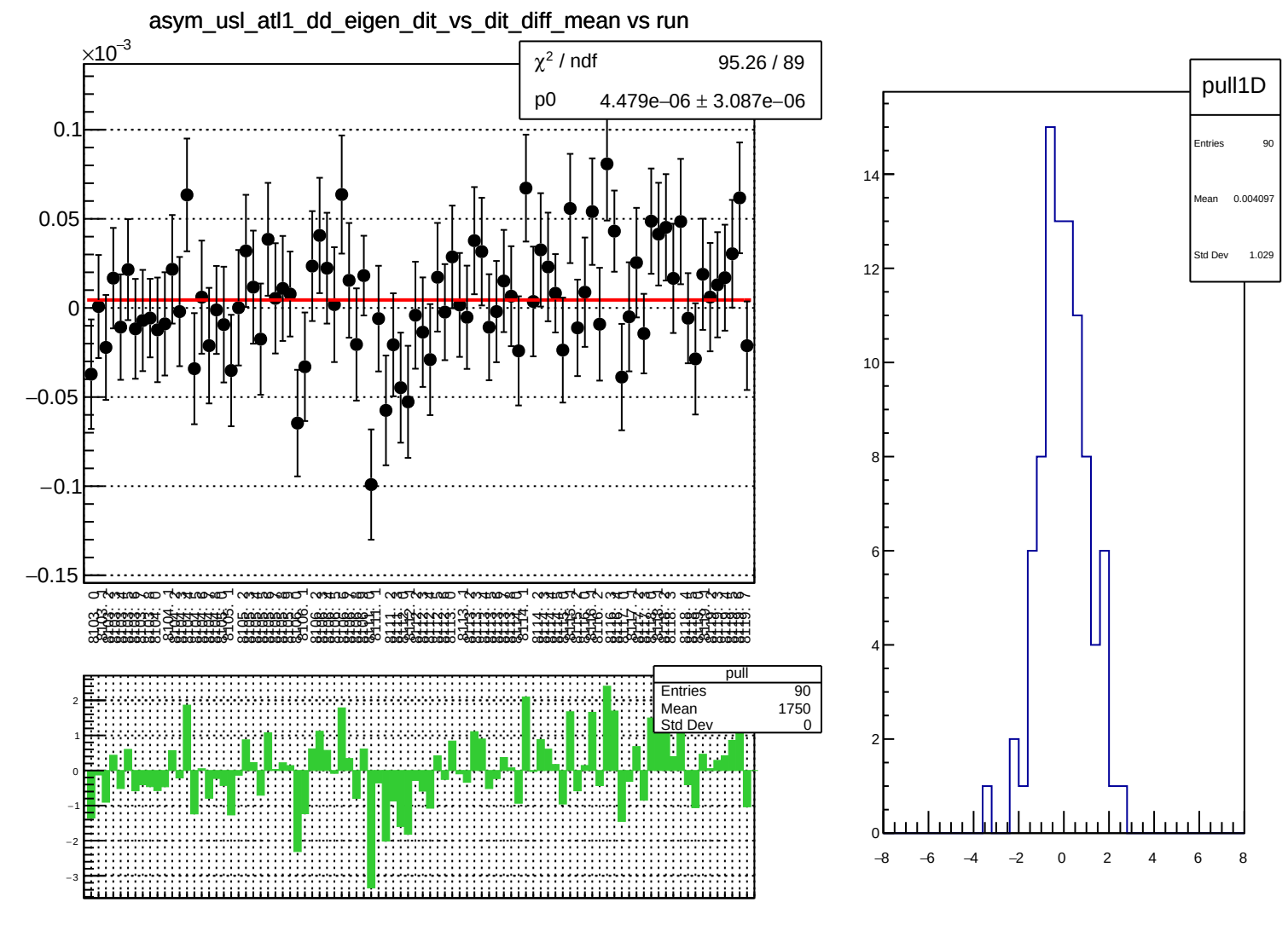

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 89
p0 7.638e−11 ± 9.46e−14
0.5
0.4
0.3
0.2
0.1
0

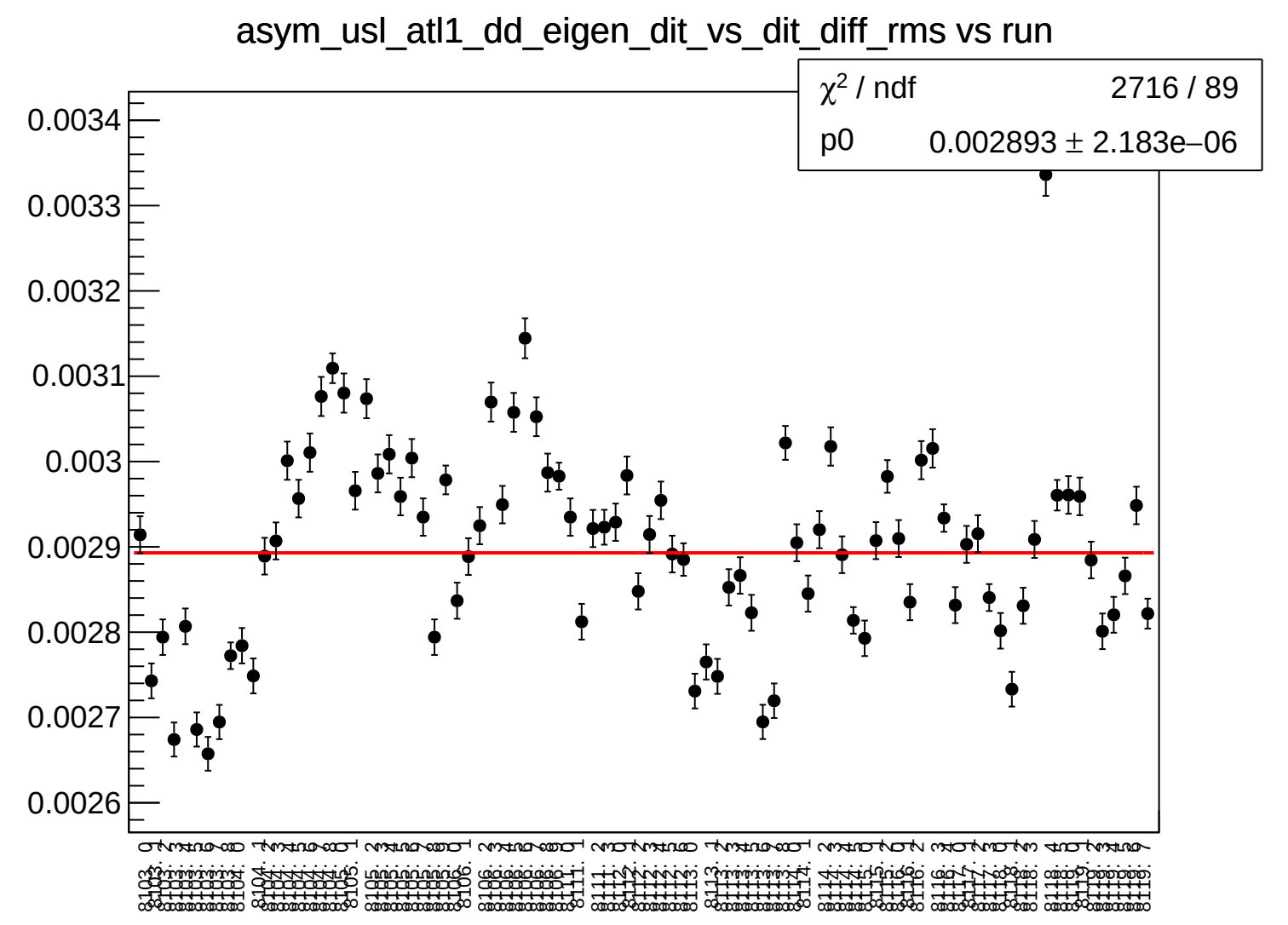

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.18 / 89
p0 −0.1019 ± 0.08216
pull
Entries 90
Mean 102
Std Dev 0
pull1D
Entries 90
Mean −0.07992
Std Dev 0.9464

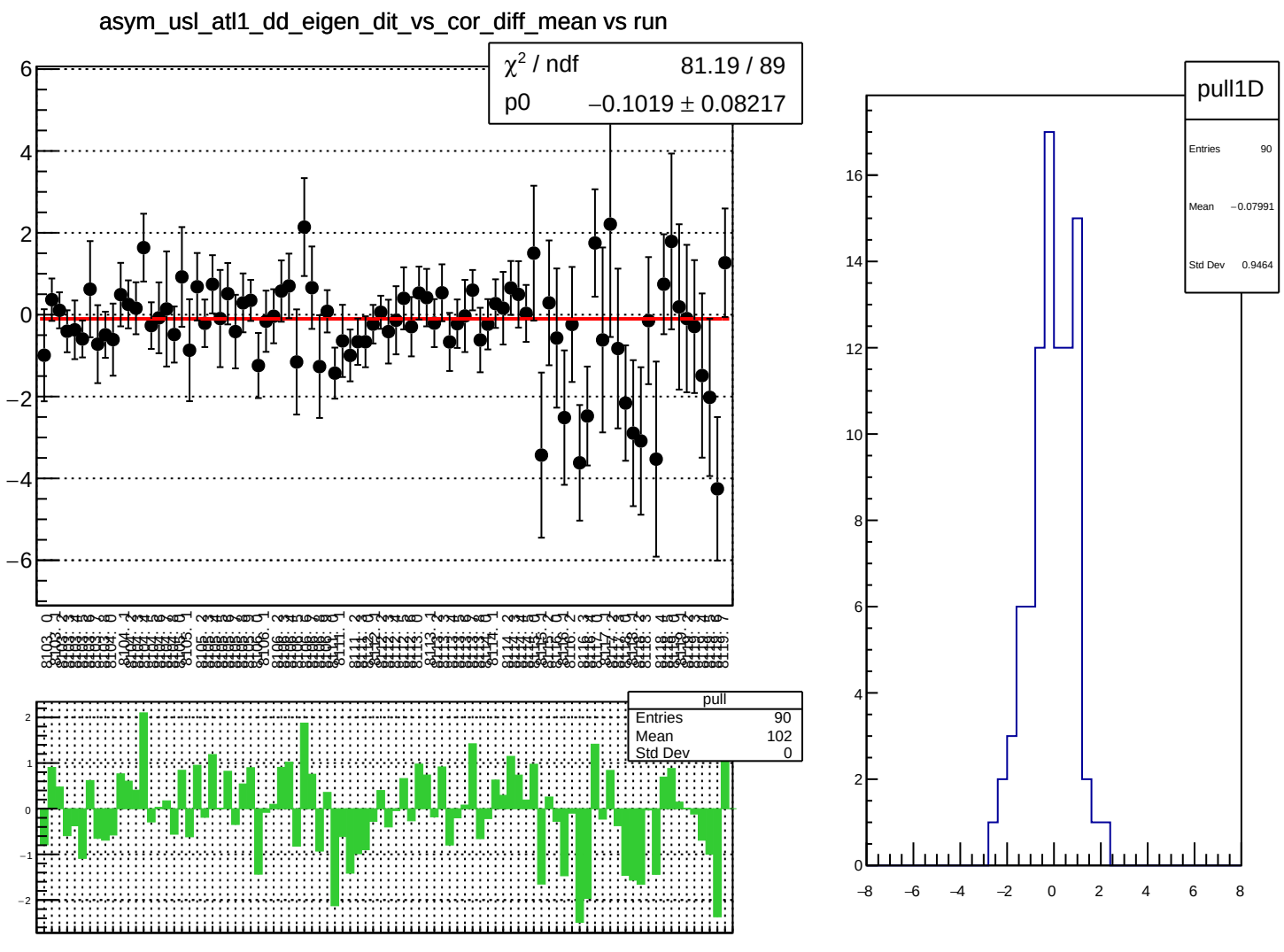

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.729e+05 / 89
p0 70.82 ± 0.0581
250
200
150
100
50

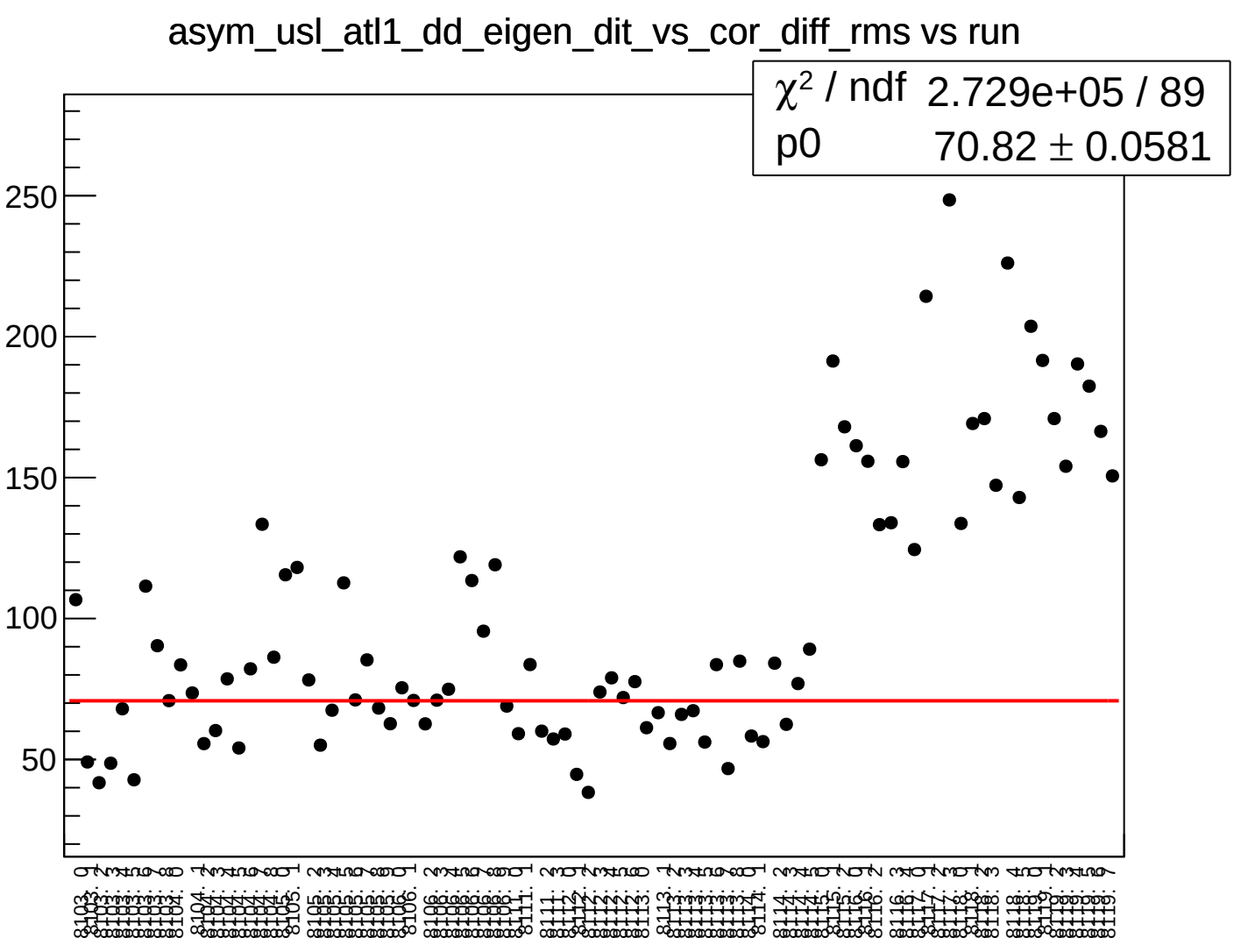

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.18 / 89
p0 −0.1019 ± 0.08216
pull
Entries 90
Mean 102
Std Dev 0
pull1D
Entries 90
Mean −0.07992
Std Dev 0.9464

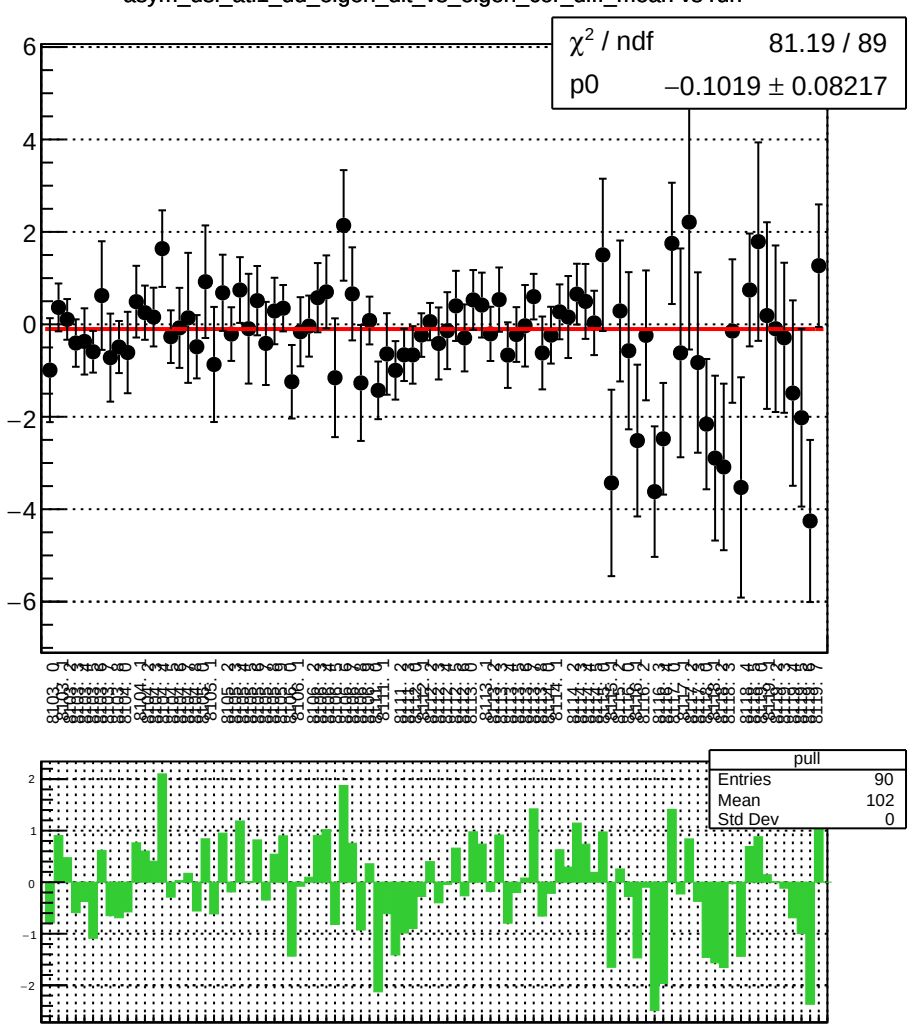

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.729e+05 / 89
p0 70.82 ± 0.0581
250
200
150
100
50

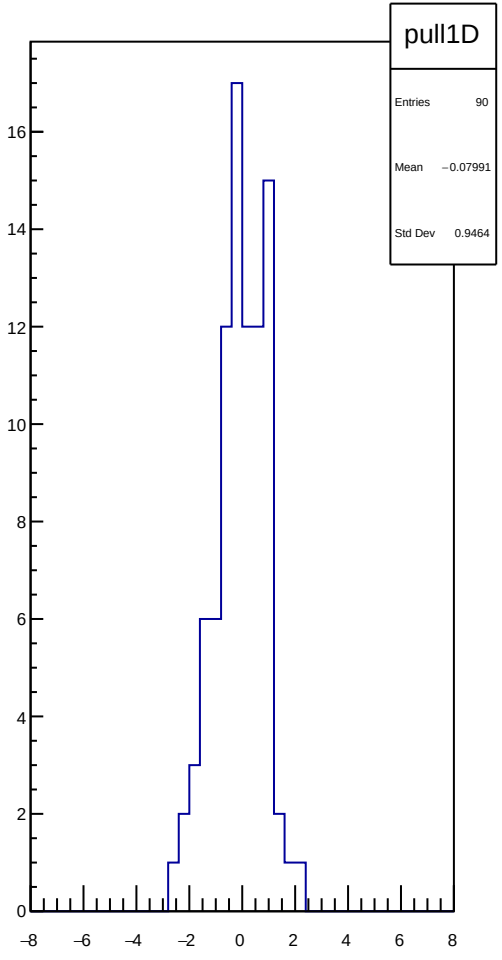

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.26 / 89
p0 4.479e−06 ± 3.087e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 90
Mean 1750
Std Dev 0
pull1D
Entries 90
Mean 0.004097
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

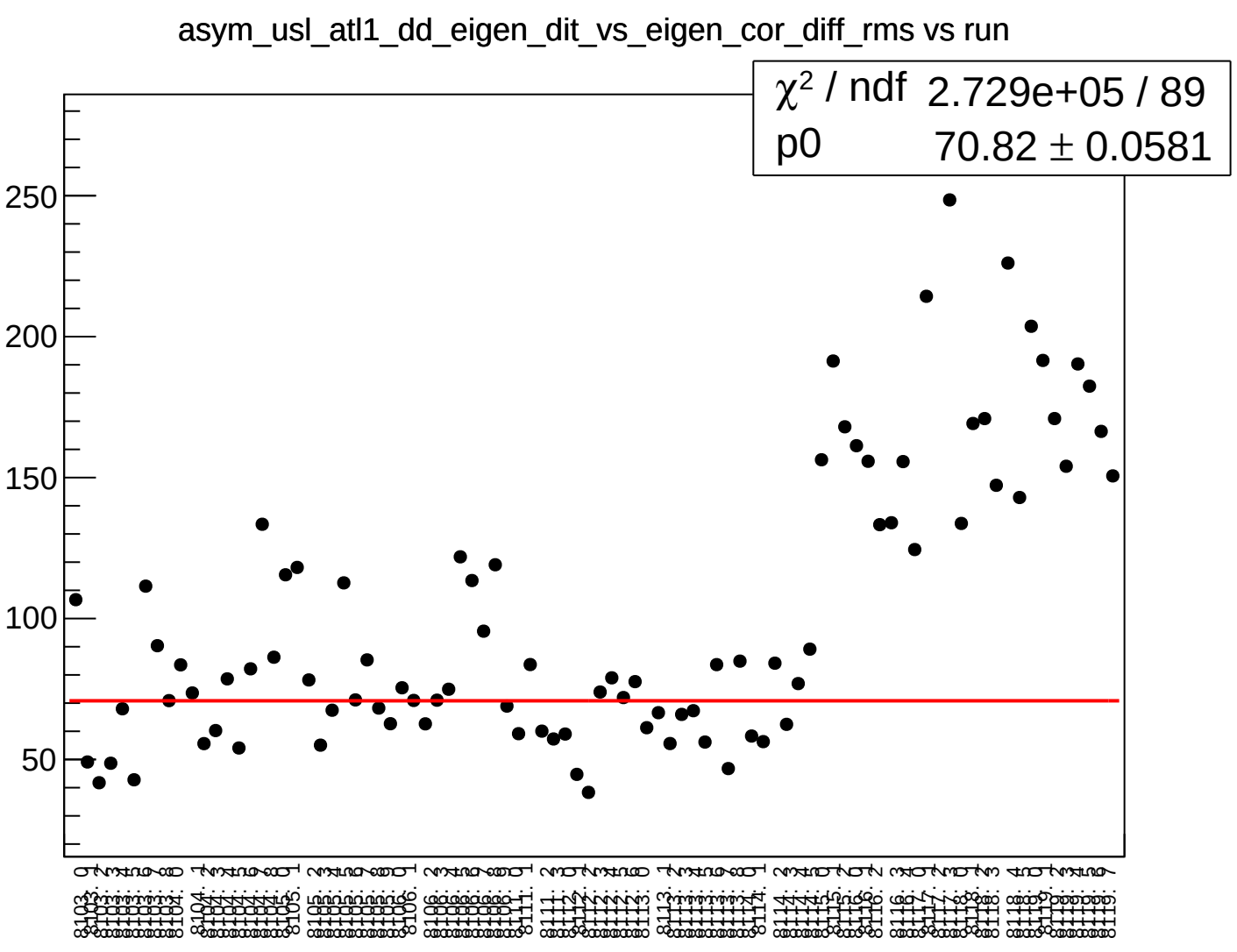

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2716 / 89
p0 0.002893 ± 2.183e−06
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

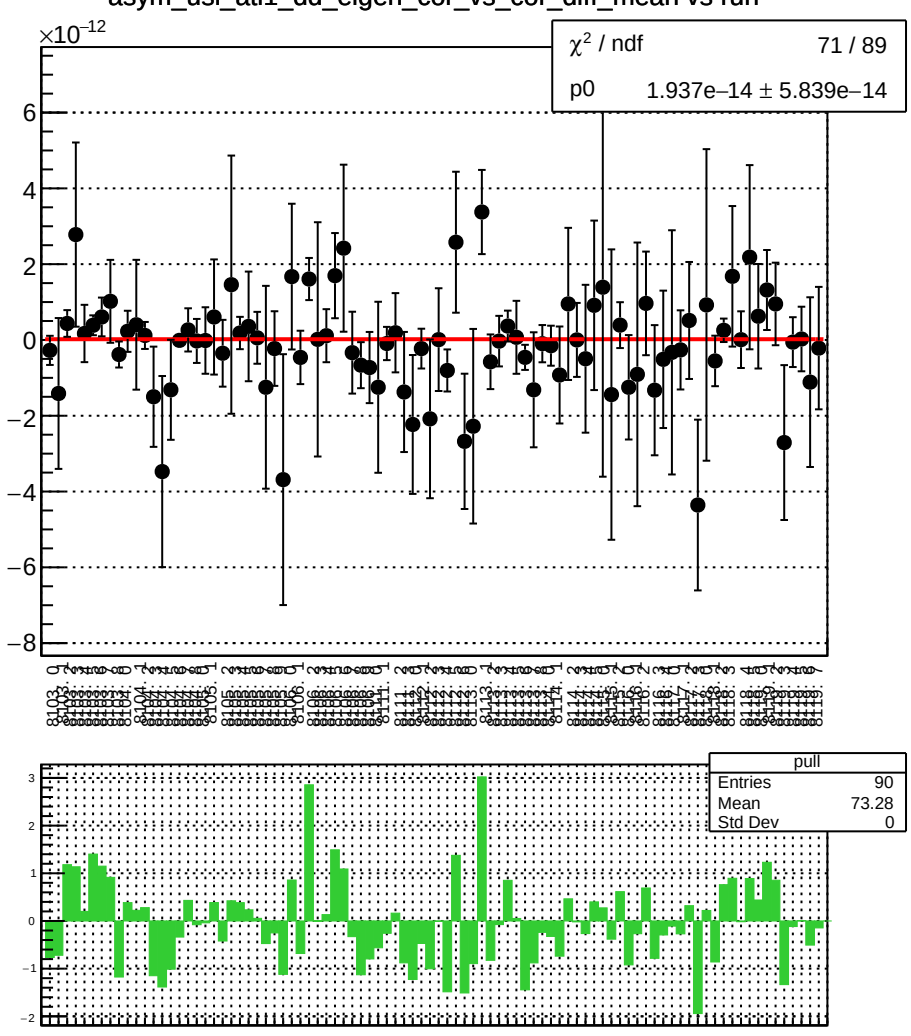

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.19 / 89
p0 −0.1019 ± 0.08217
pull
Entries 90
Mean 102
Std Dev 0
pull1D
Entries 90
Mean −0.07991
Std Dev 0.9464

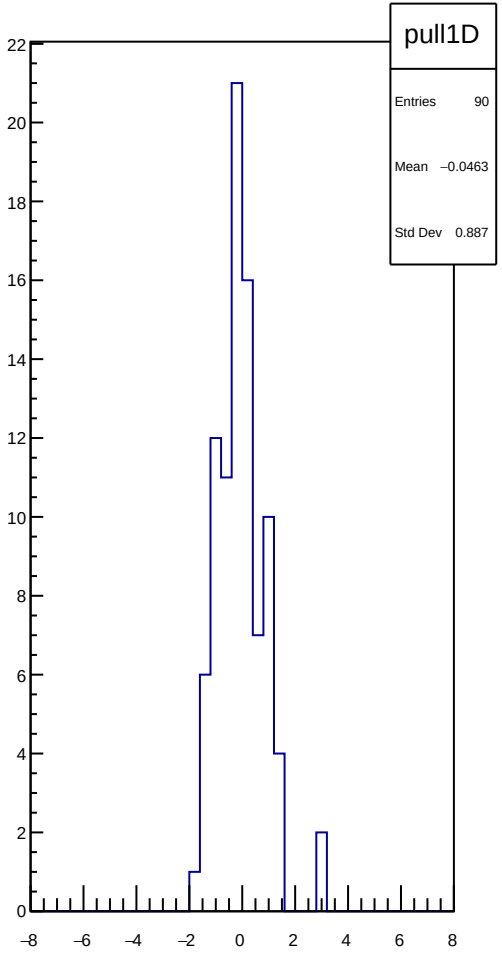

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.729e+05 / 89
p0 70.82 ± 0.0581
250
200
150
100
50

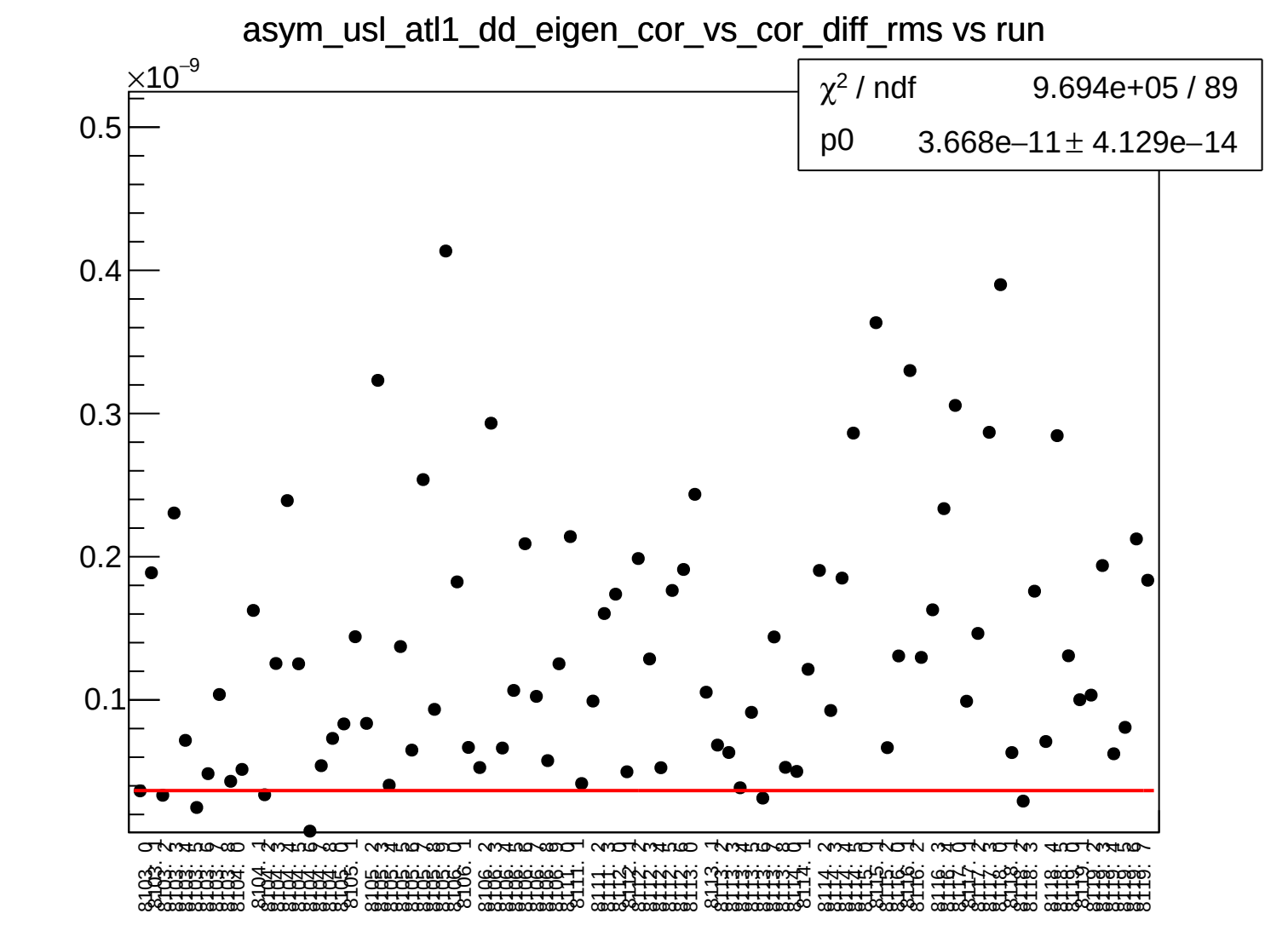

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.19 / 89
p0 −0.1019 ± 0.08217
pull
Entries 90
Mean 102
Std Dev 0

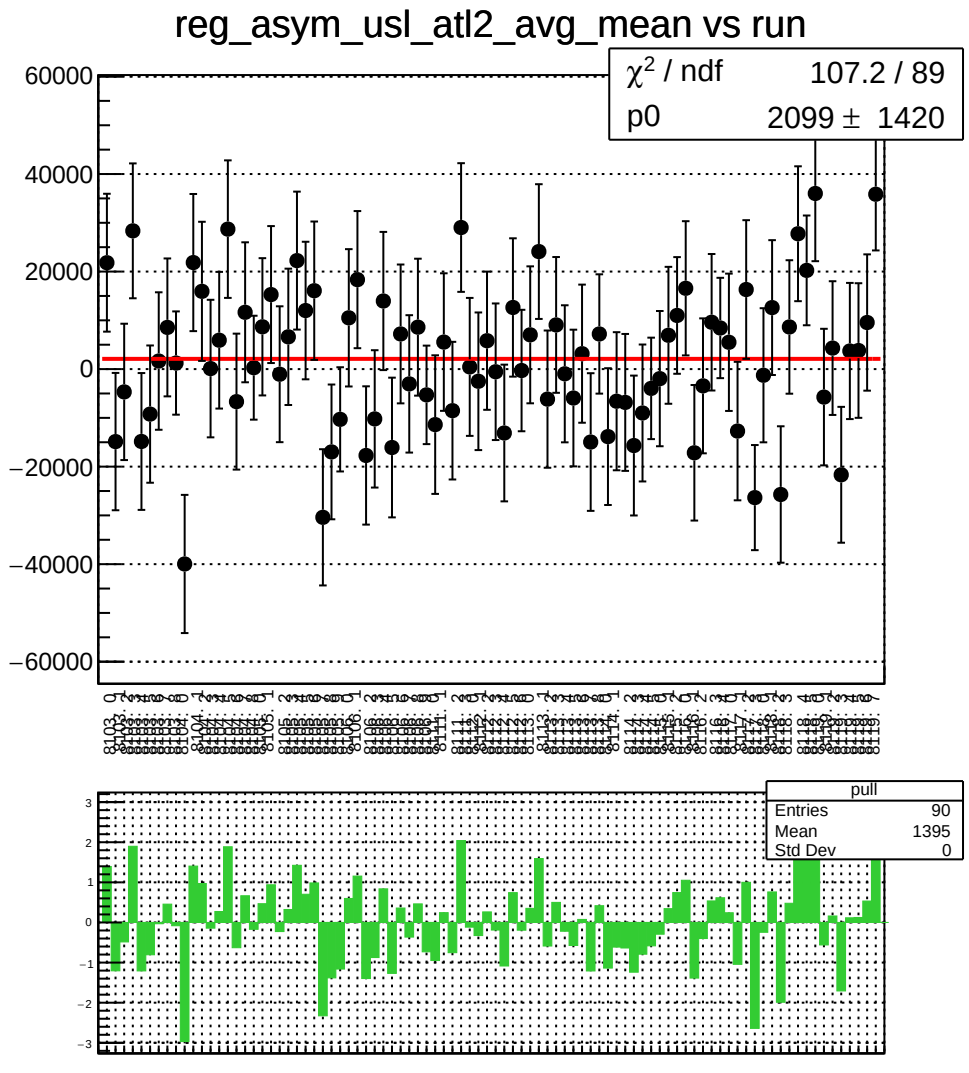

pull1D
Entries 90
Mean −0.07991
Std Dev 0.9464

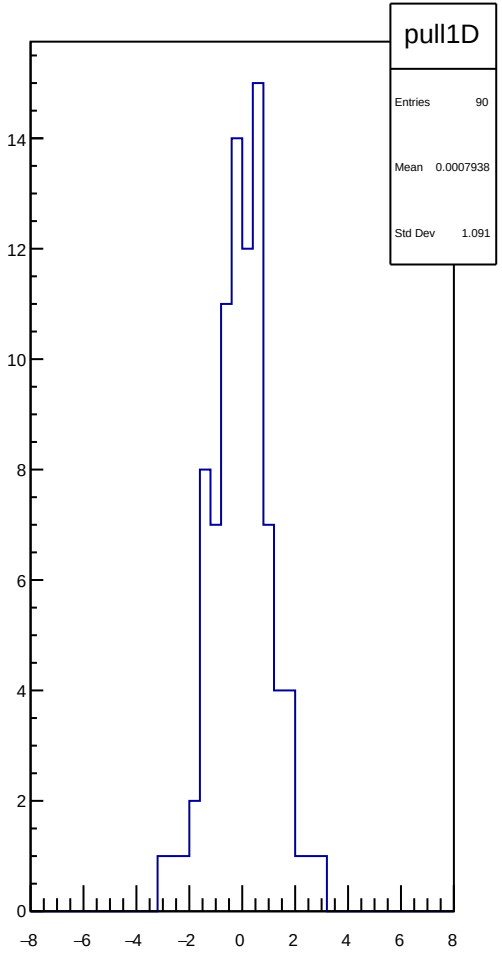

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.729e+05 / 89
p0 70.82 ± 0.0581
250
200
150
100
50

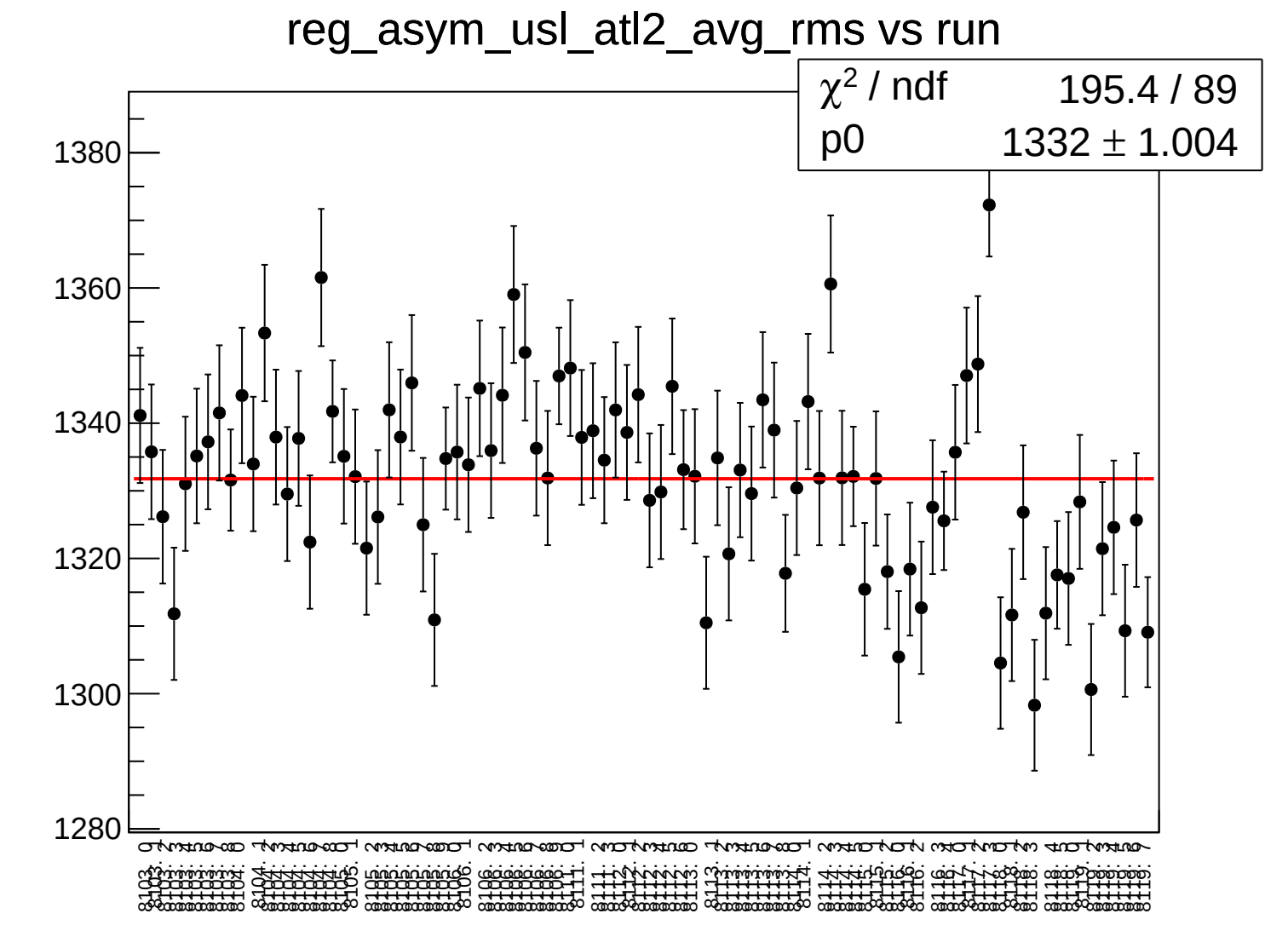

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71 / 89
p0 1.937e−14 ± 5.839e−14
pull
Entries 90
Mean 73.28
Std Dev 0

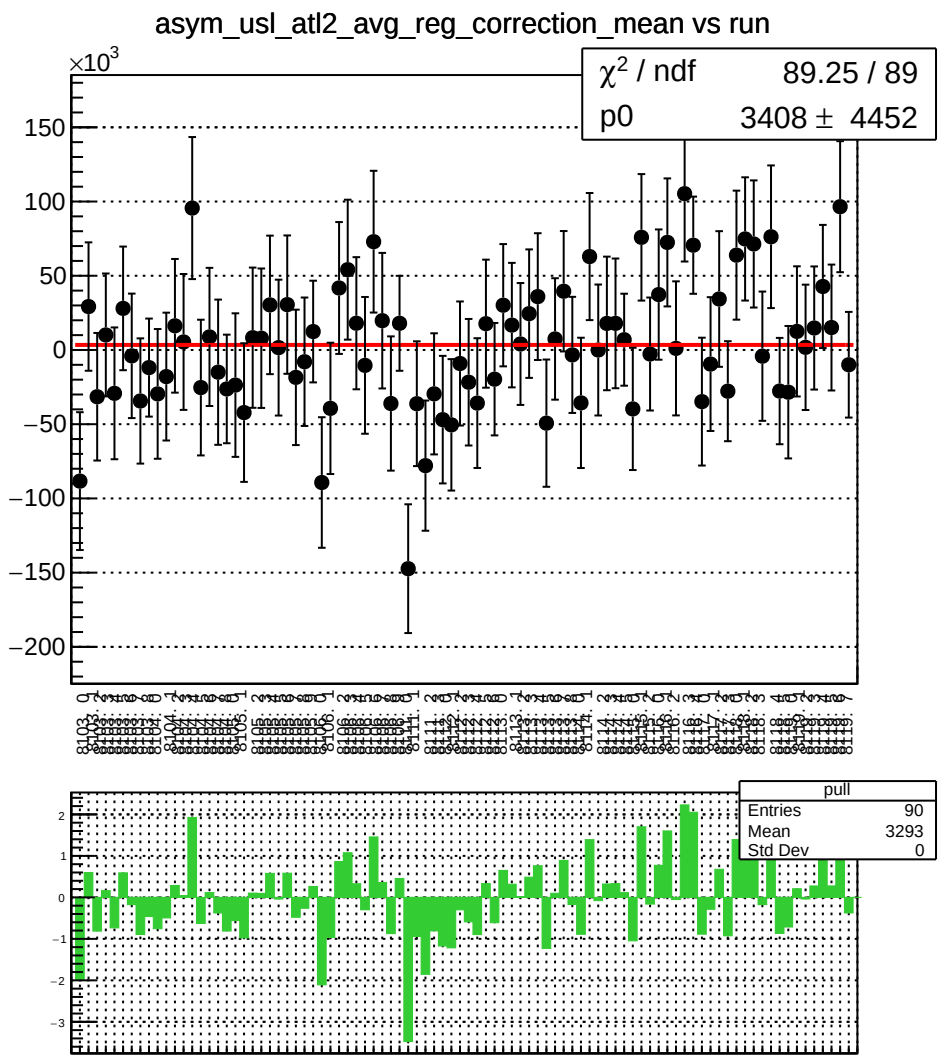

pull1D
Entries 90
Mean −0.0463
Std Dev 0.887

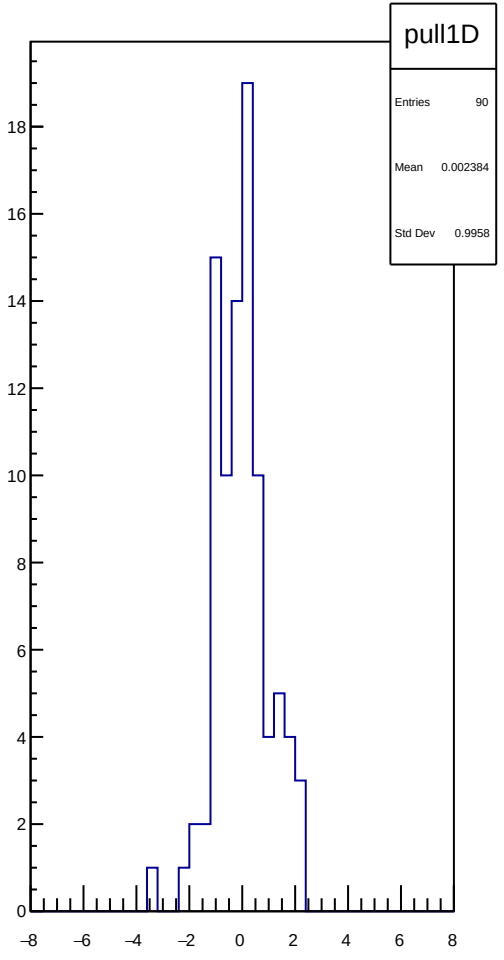

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.694e+05 / 89
p0 3.668e−11 ± 4.129e−14
0.5
0.4
0.3
0.2
0.1

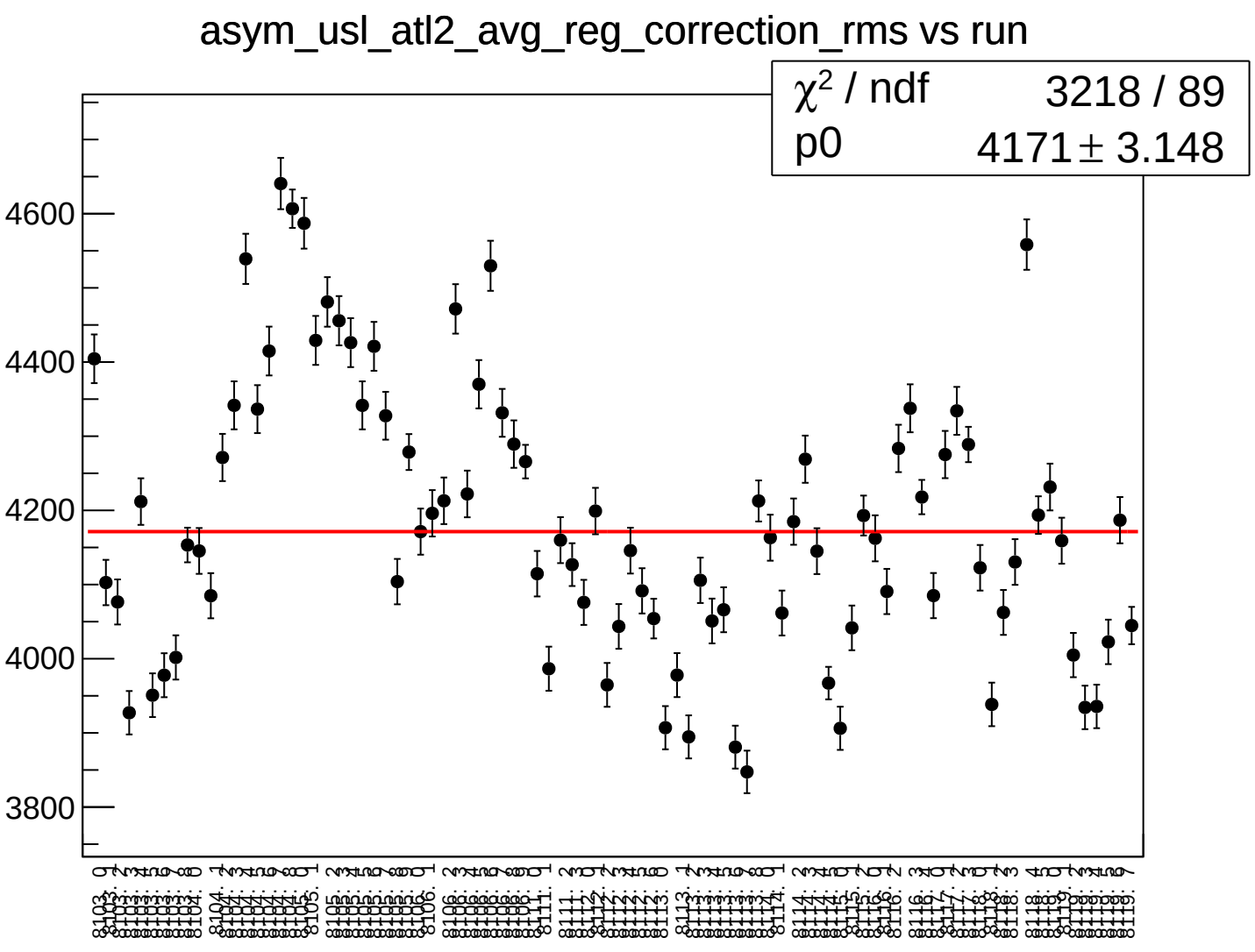

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 107.2 / 89
p0 2099 ± 1420
pull
Entries 90
Mean 1395
Std Dev 0

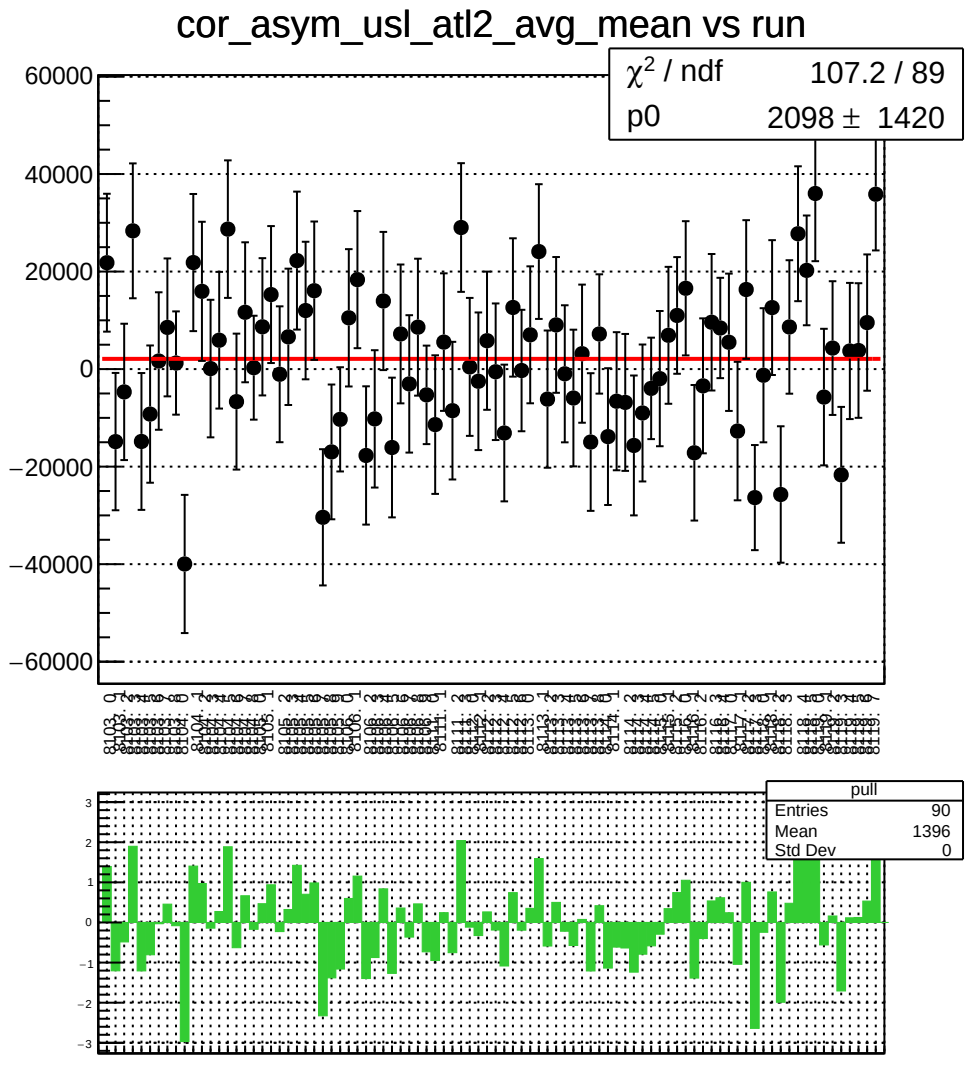

pull1D
Entries 90
Mean 0.0007938
Std Dev 1.091

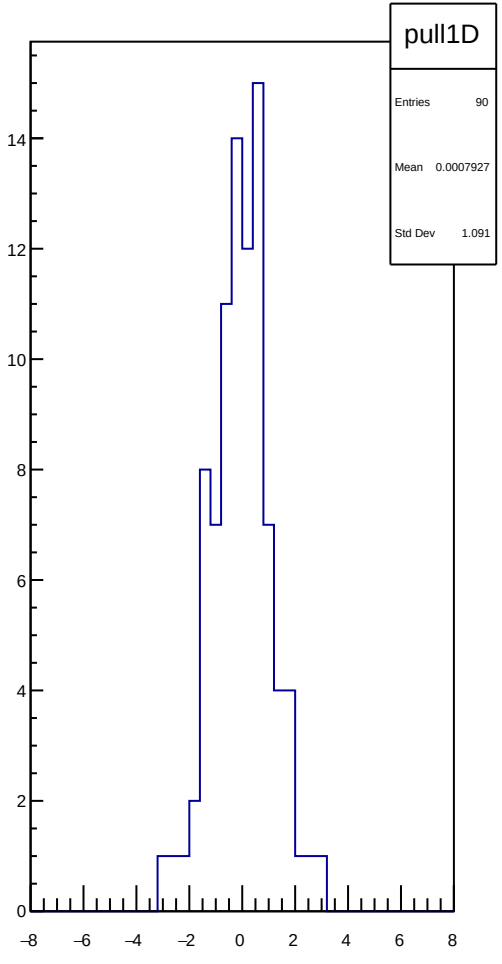

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 195.4 / 89
p0 1332 ± 1.004
1380
1360
1340
1320
1300
1280

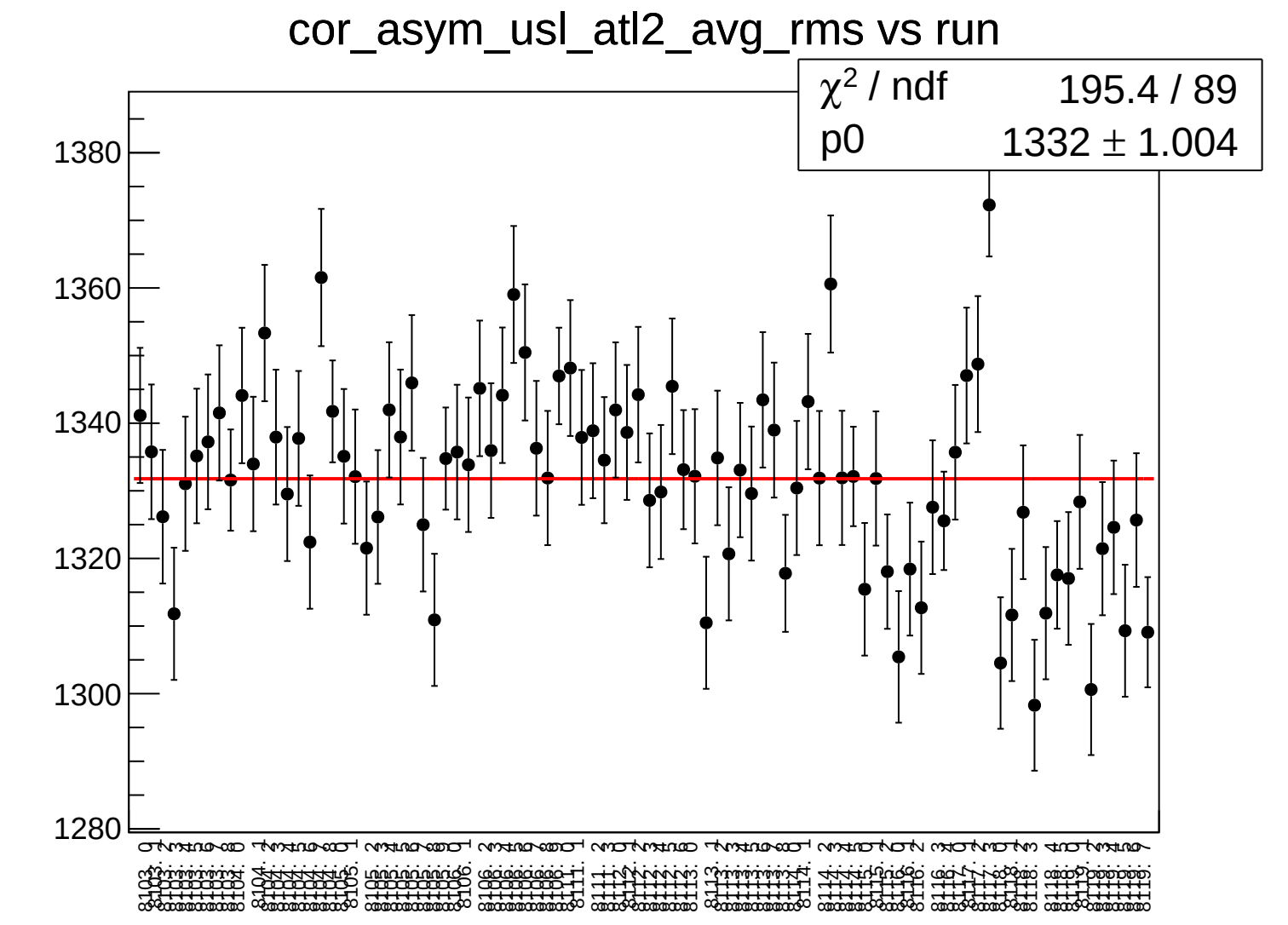

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.25 / 89
p0 3408 ± 4452
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean 3293
Std Dev 0
2
1
0
−1
−2
−3

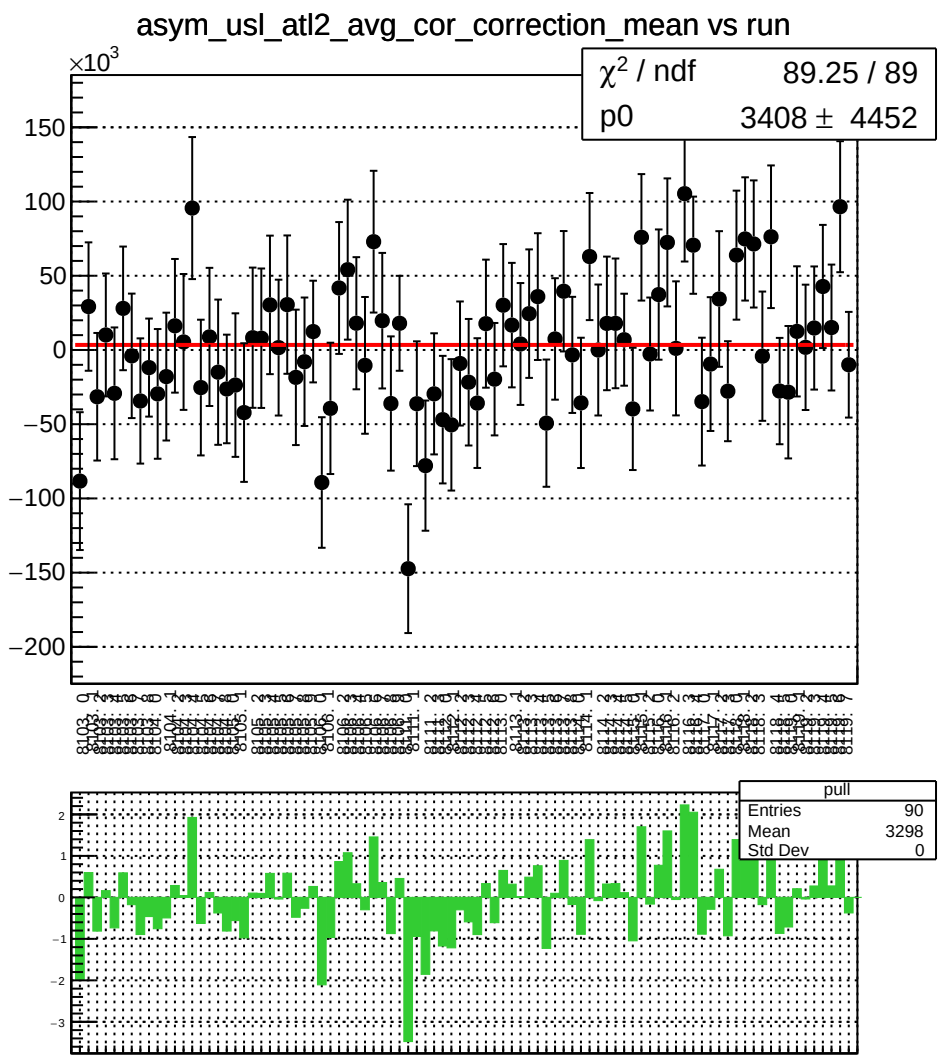

pull1D
Entries 90
Mean 0.002384
Std Dev 0.9958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

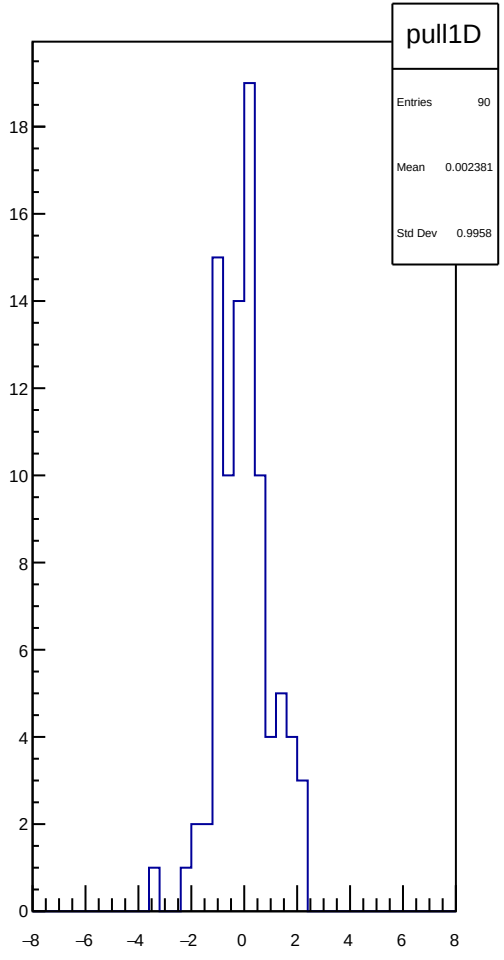

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3218 / 89
p0 4171 ± 3.148
4600
4400
4200
4000
3800

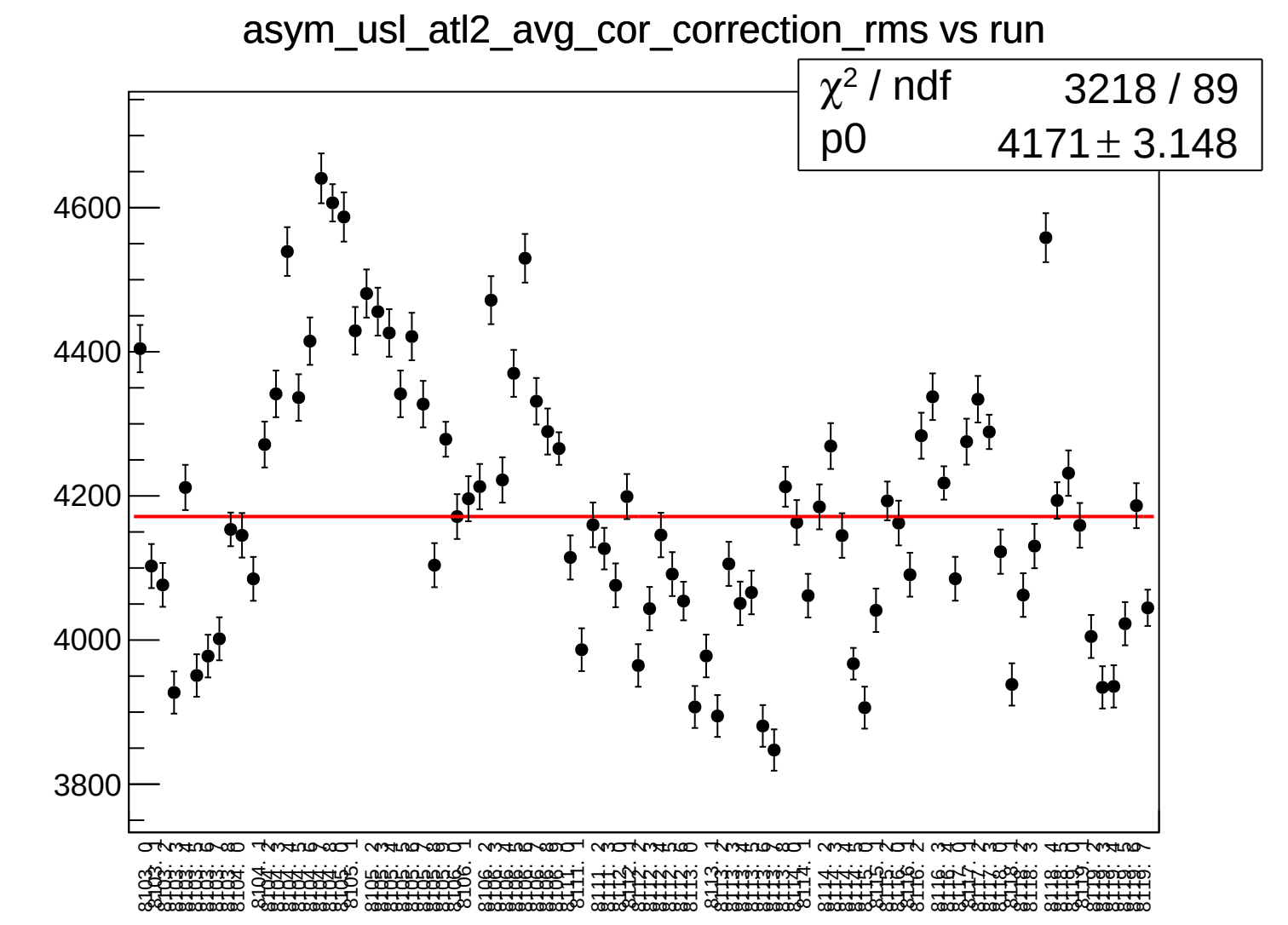

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 107.2 / 89
p0 2098 ± 1420
pull
Entries 90
Mean 1396
Std Dev 0

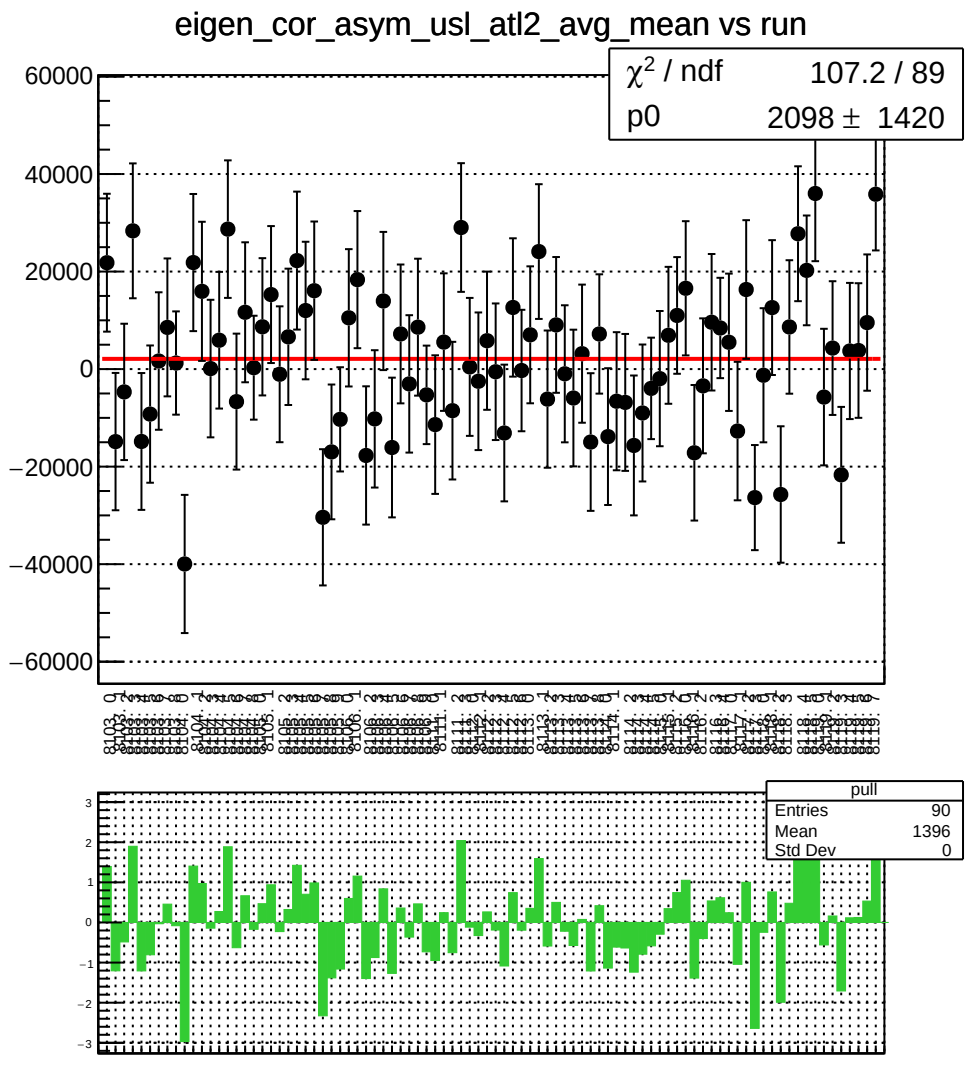

pull1D
Entries 90
Mean 0.0007927
Std Dev 1.091

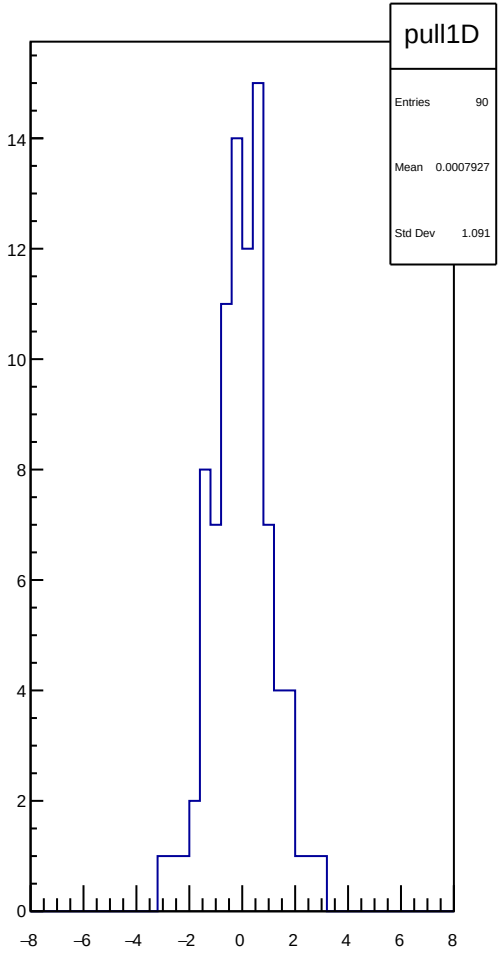

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 195.4 / 89
p0 1332 ± 1.004
1380
1360
1340
1320
1300
1280

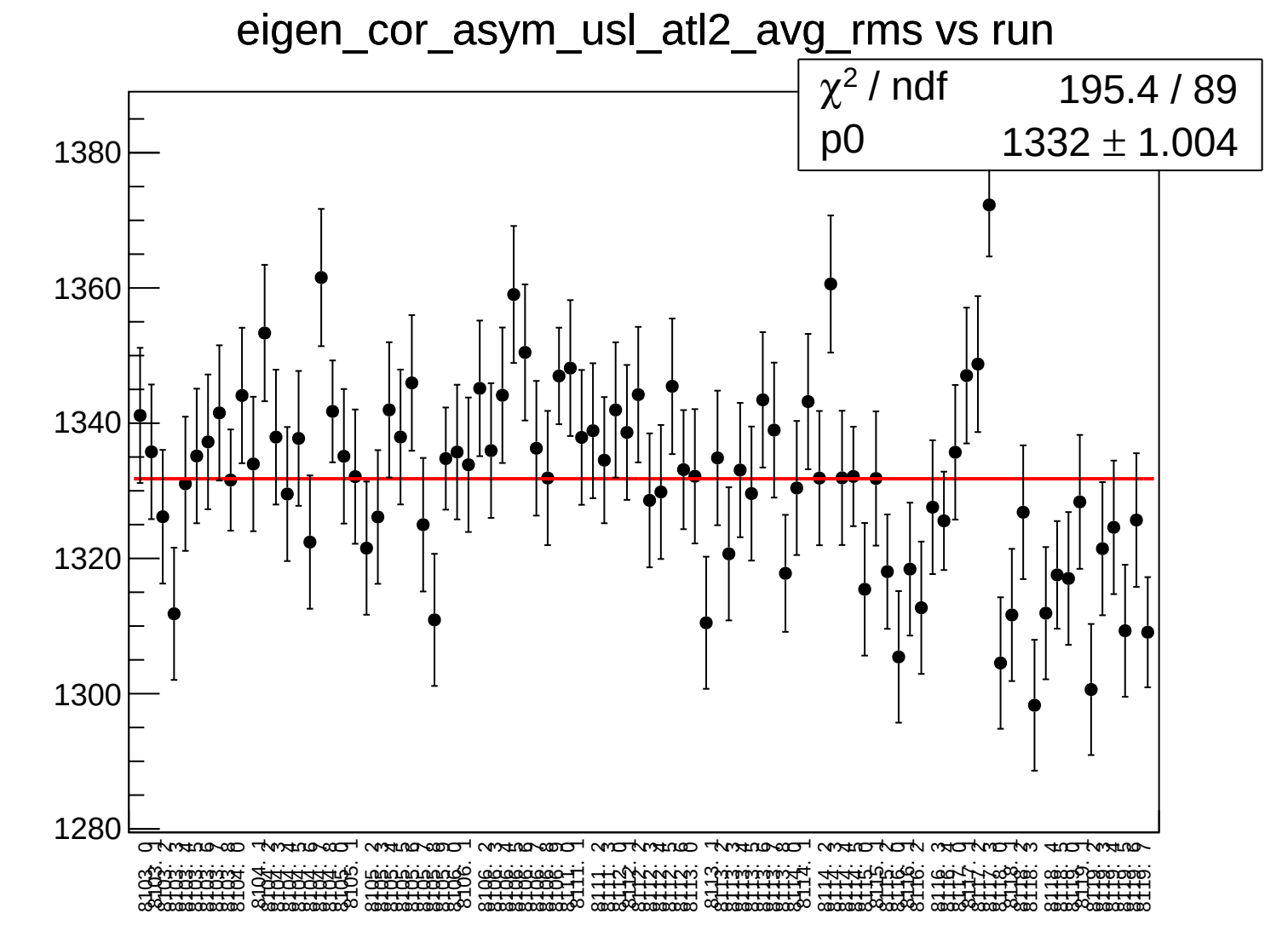

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.25 / 89
p0 3408 ± 4452
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean 3298
Std Dev 0
2
1
0
−1
−2
−3

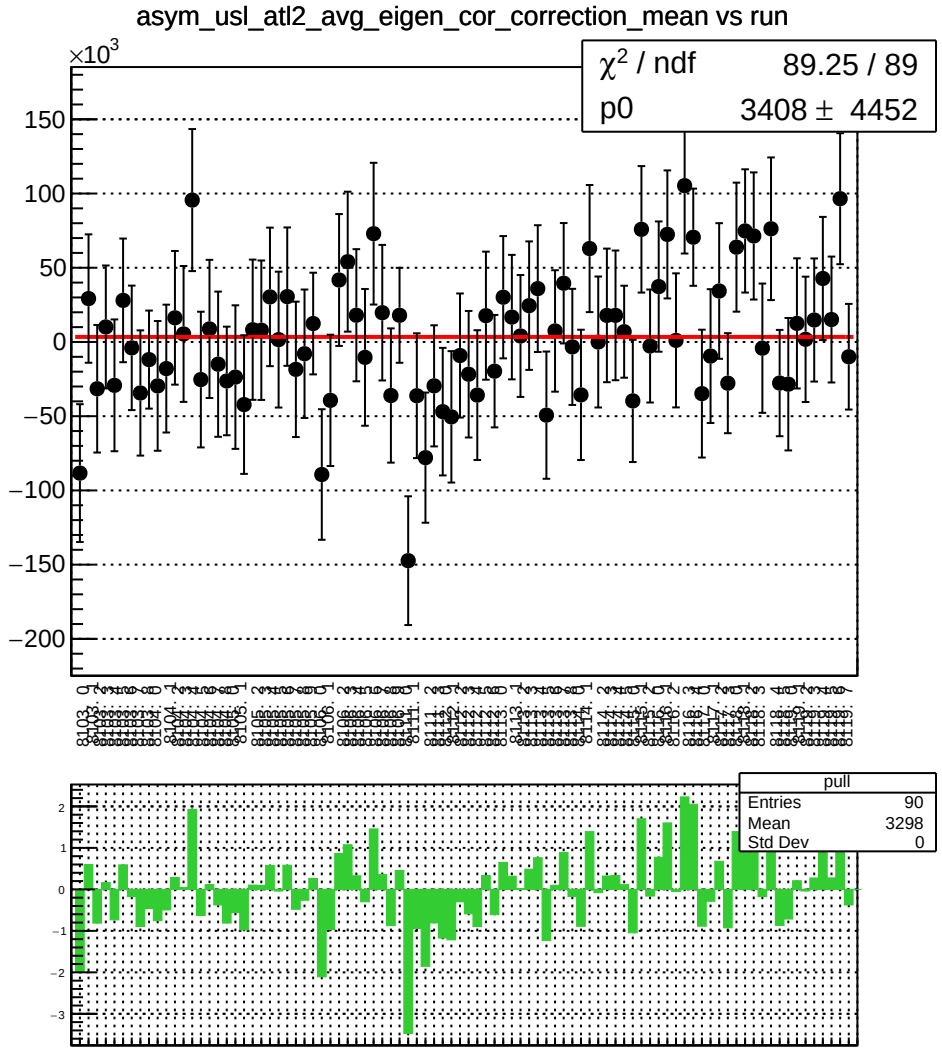

pull1D
Entries 90
Mean 0.002381
Std Dev 0.9958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

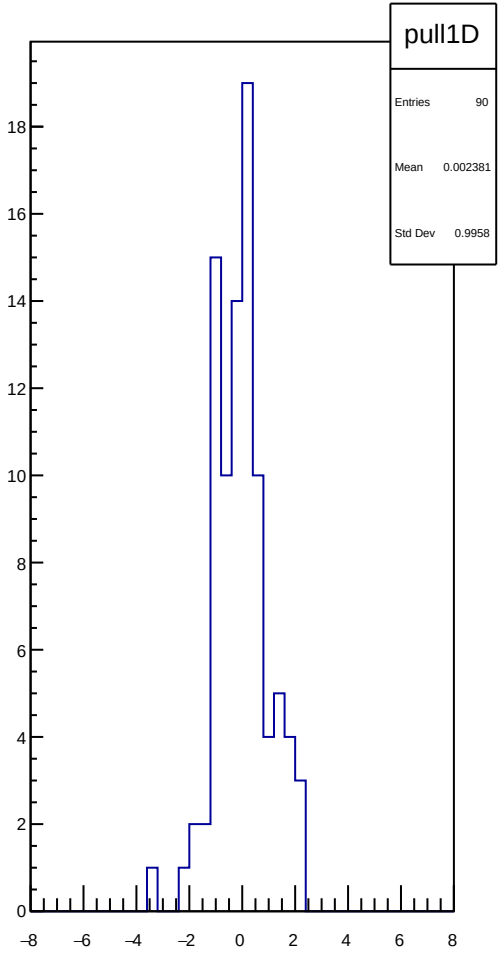

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 3218 / 89
p0 4171 ± 3.148
4600
4400
4200
4000
3800


eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 107.2 / 89
p0 2098 ± 1420
pull
Entries 90
Mean 1396
Std Dev 0


pull1D
Entries 90
Mean 0.0007927
Std Dev 1.091


eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 195.4 / 89
p0 1332 ± 1.004
1380
1360
1340
1320
1300
1280


asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.25 / 89
p0 3408 ± 4452
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean 3298
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.002381
Std Dev 0.9958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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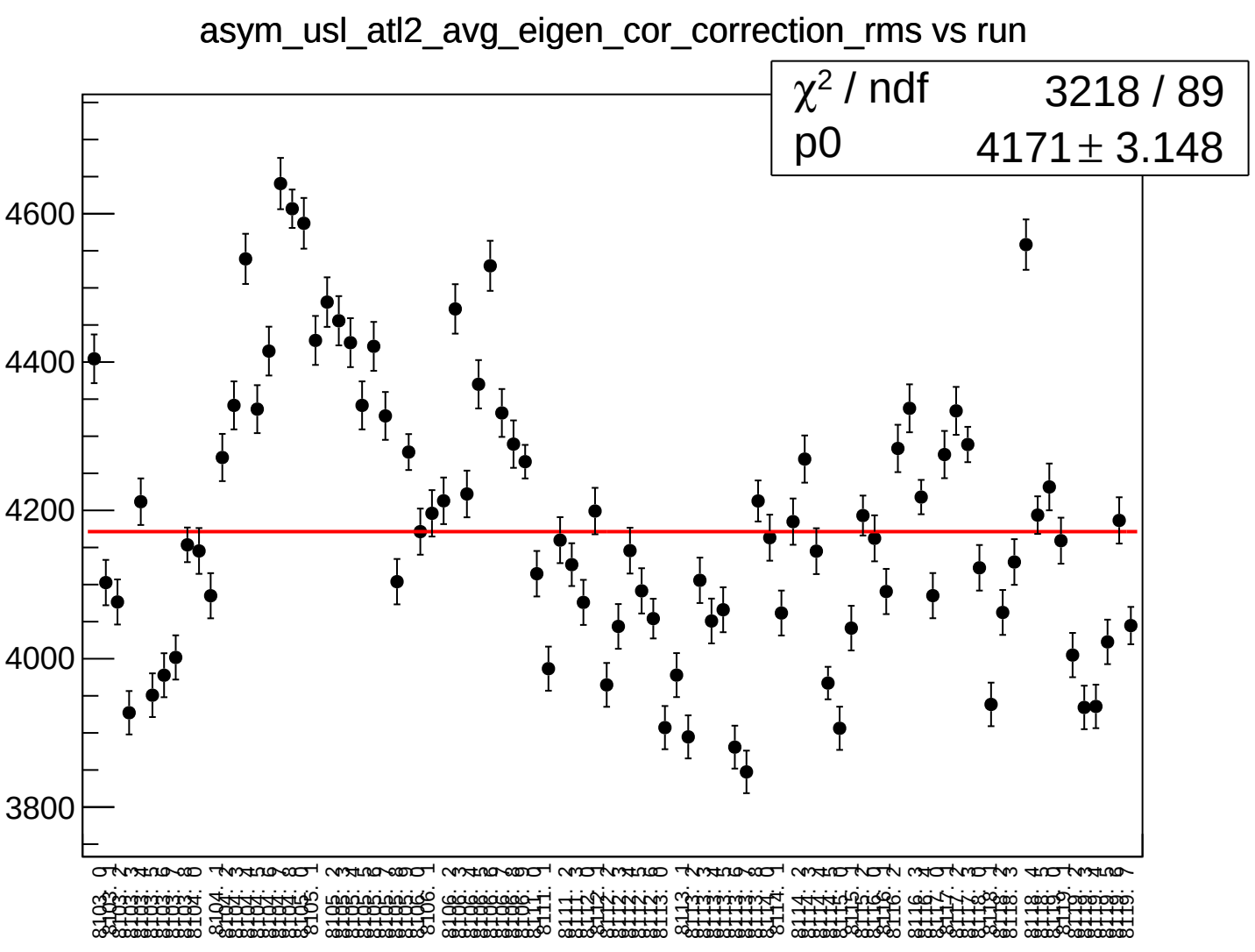
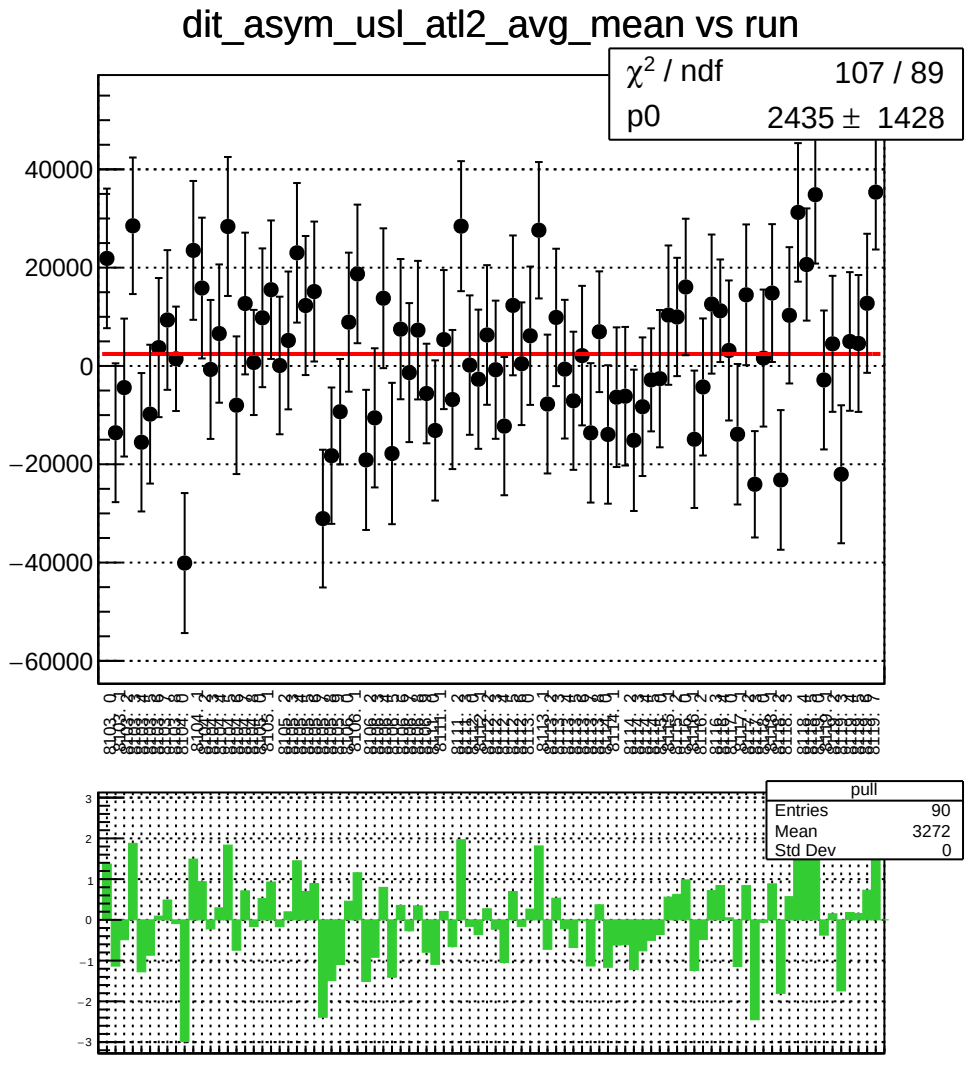
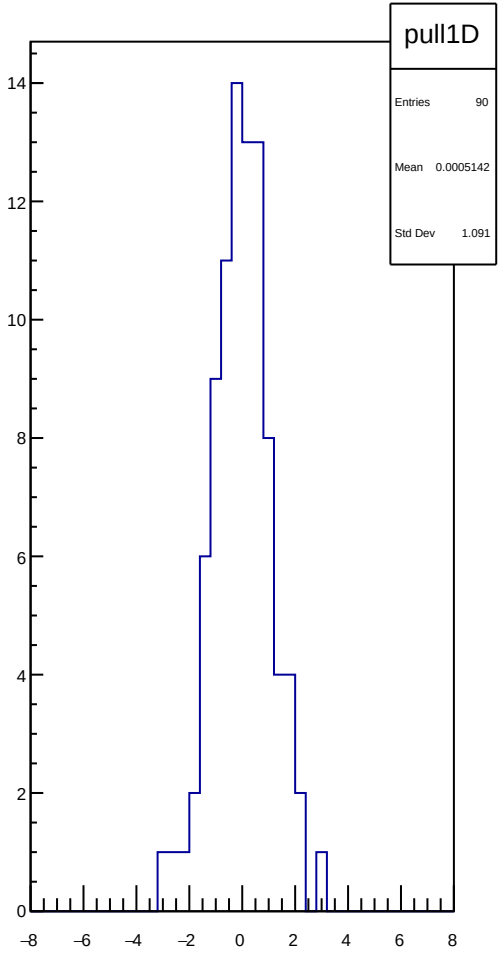
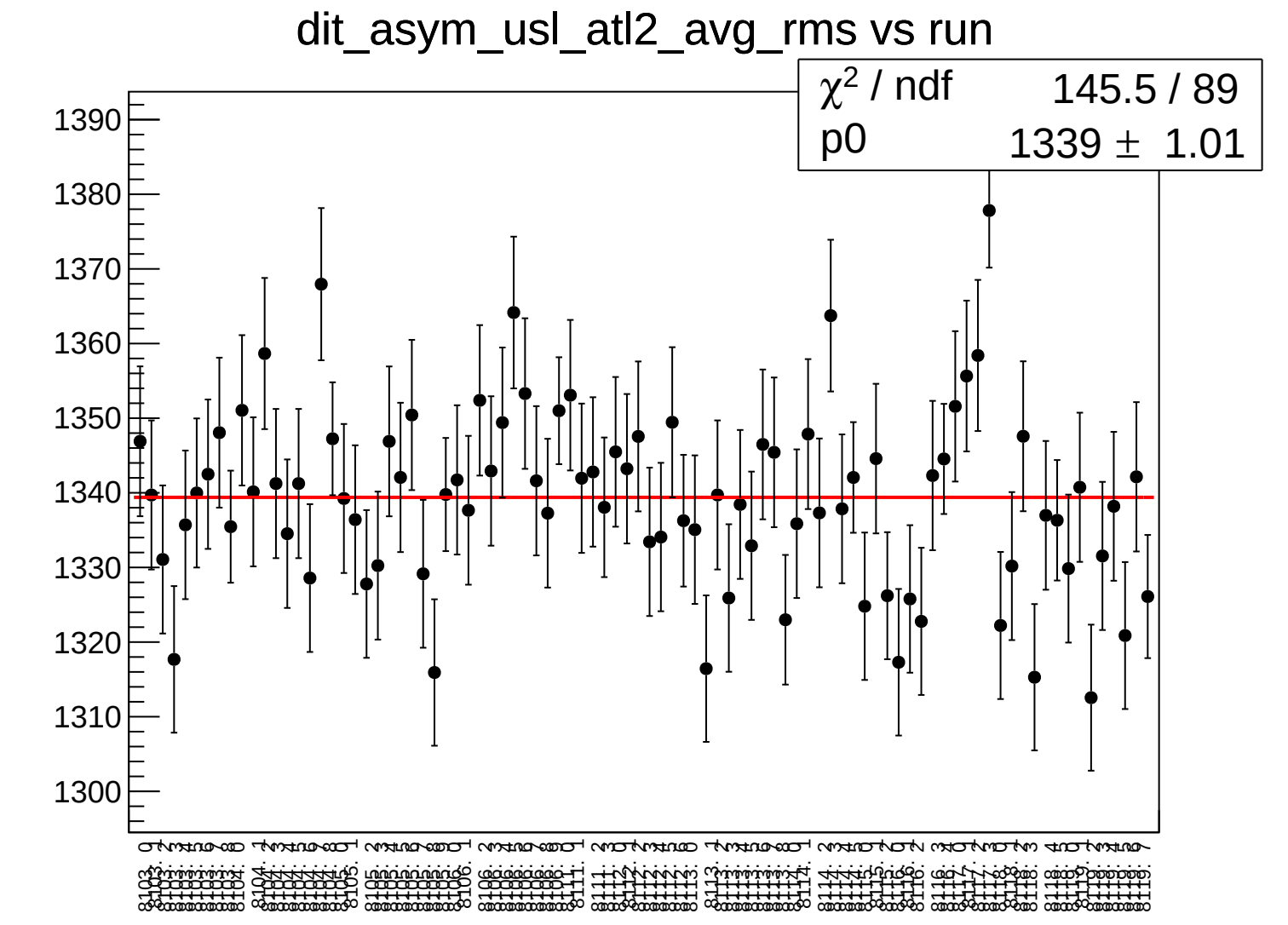
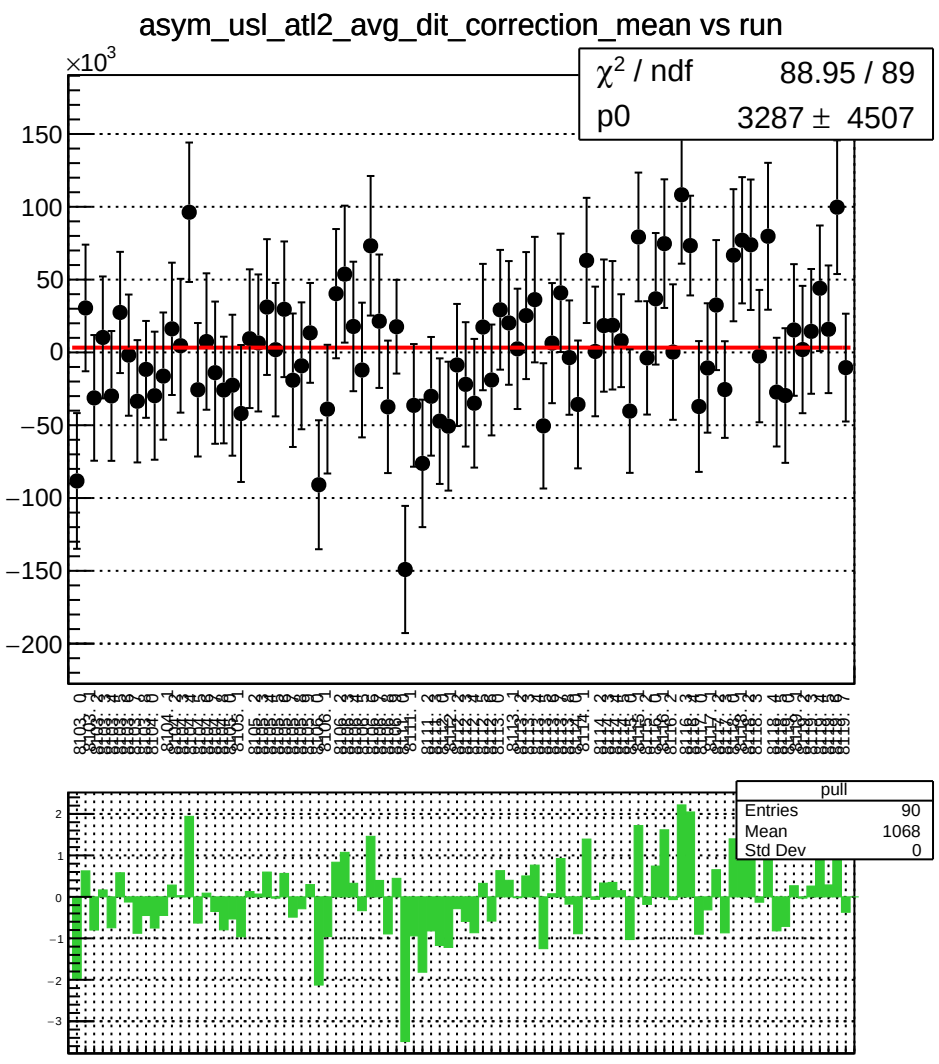
0
2
4
6
8

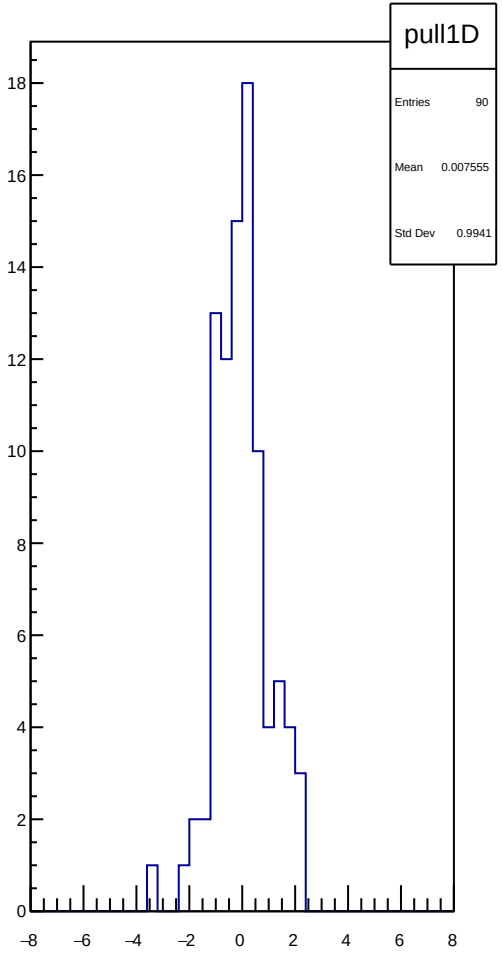

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3218 / 89
p0 4171 ± 3.148
4600
4400
4200
4000
3800

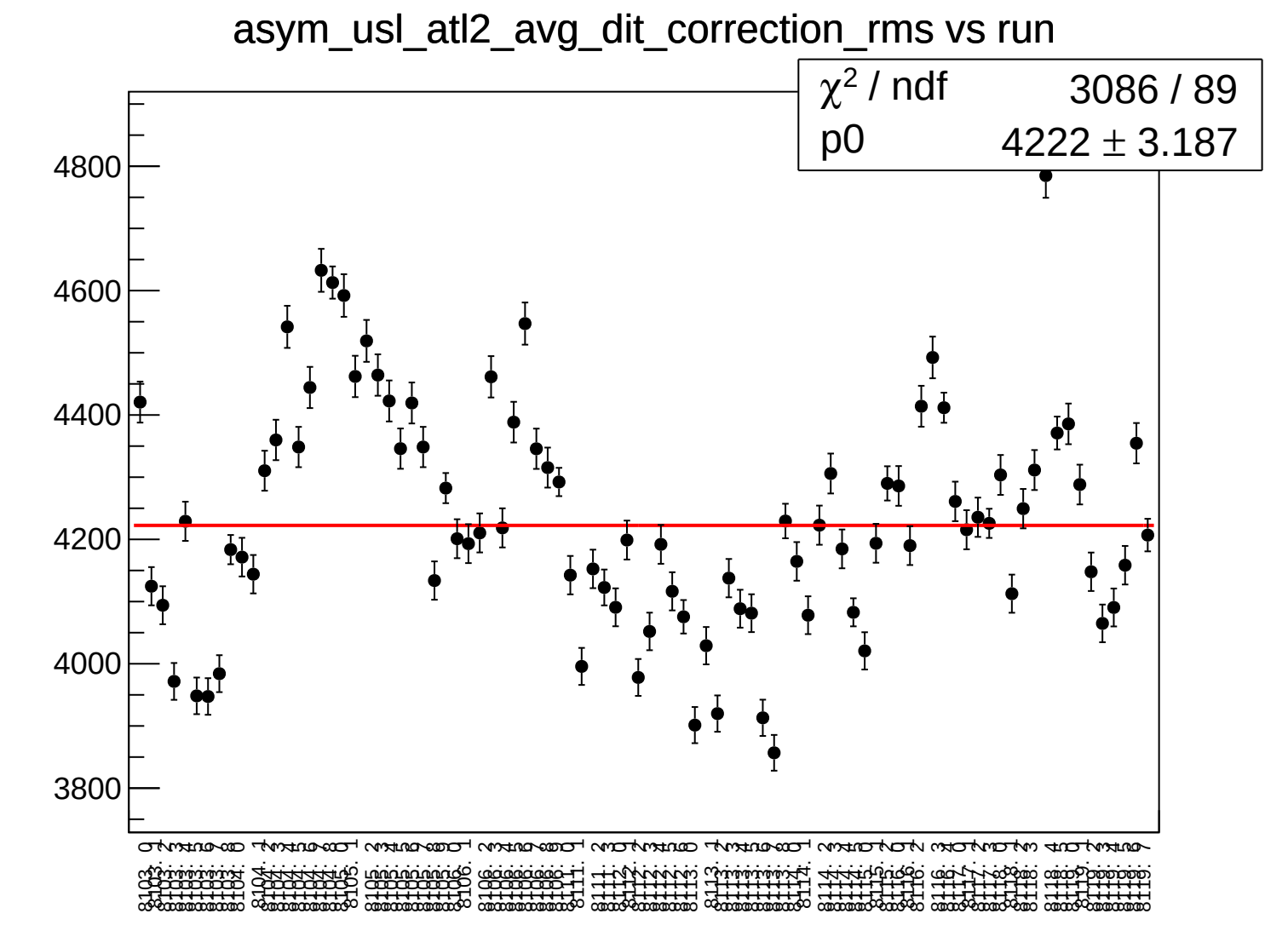

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 107 / 89
p0 2435 ± 1428
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 3272
Std Dev 0
3
2
1
0
−1
−2
−3

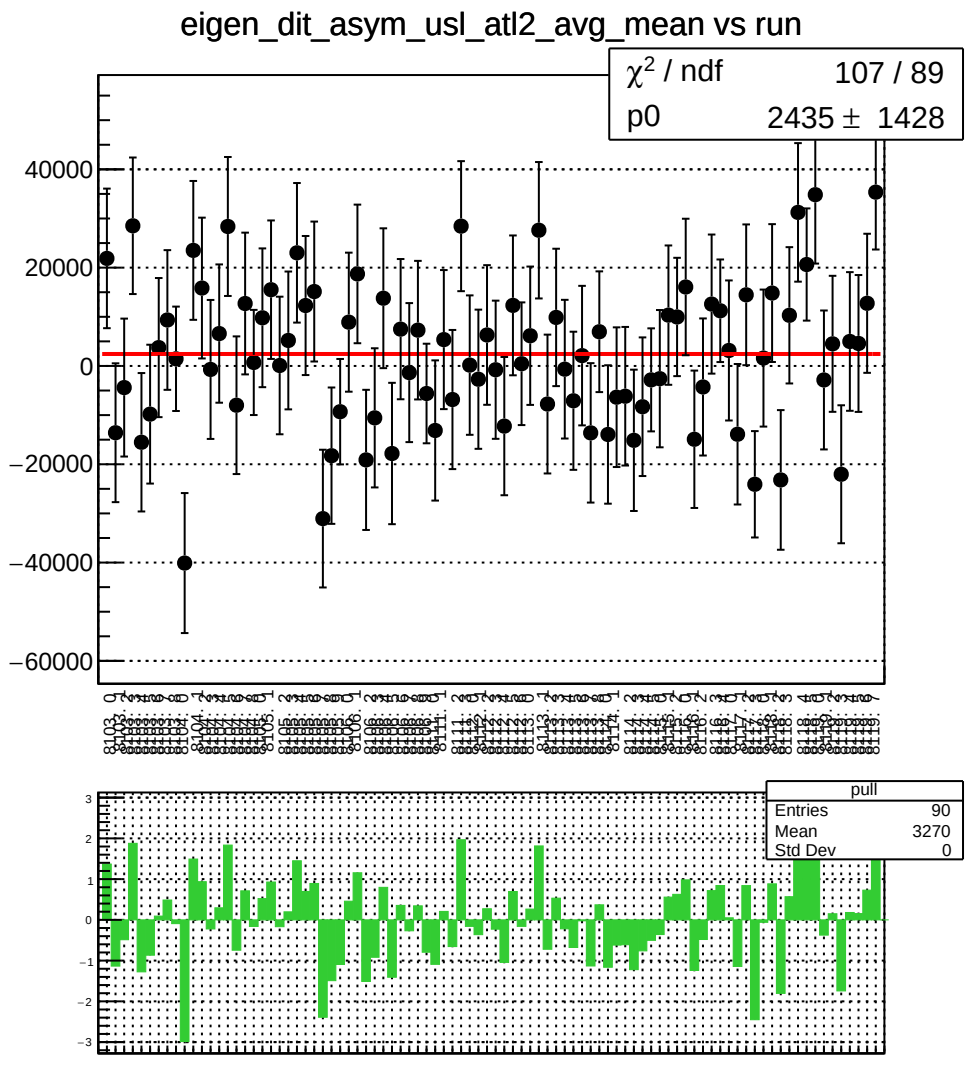

pull1D
Entries 90
Mean 0.0005142
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

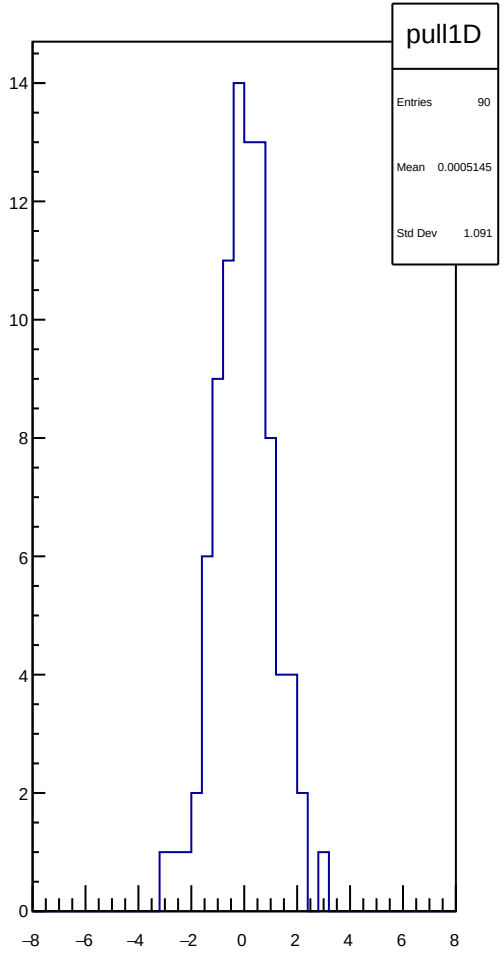

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 145.5 / 89
p0 1339 ± 1.01
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300

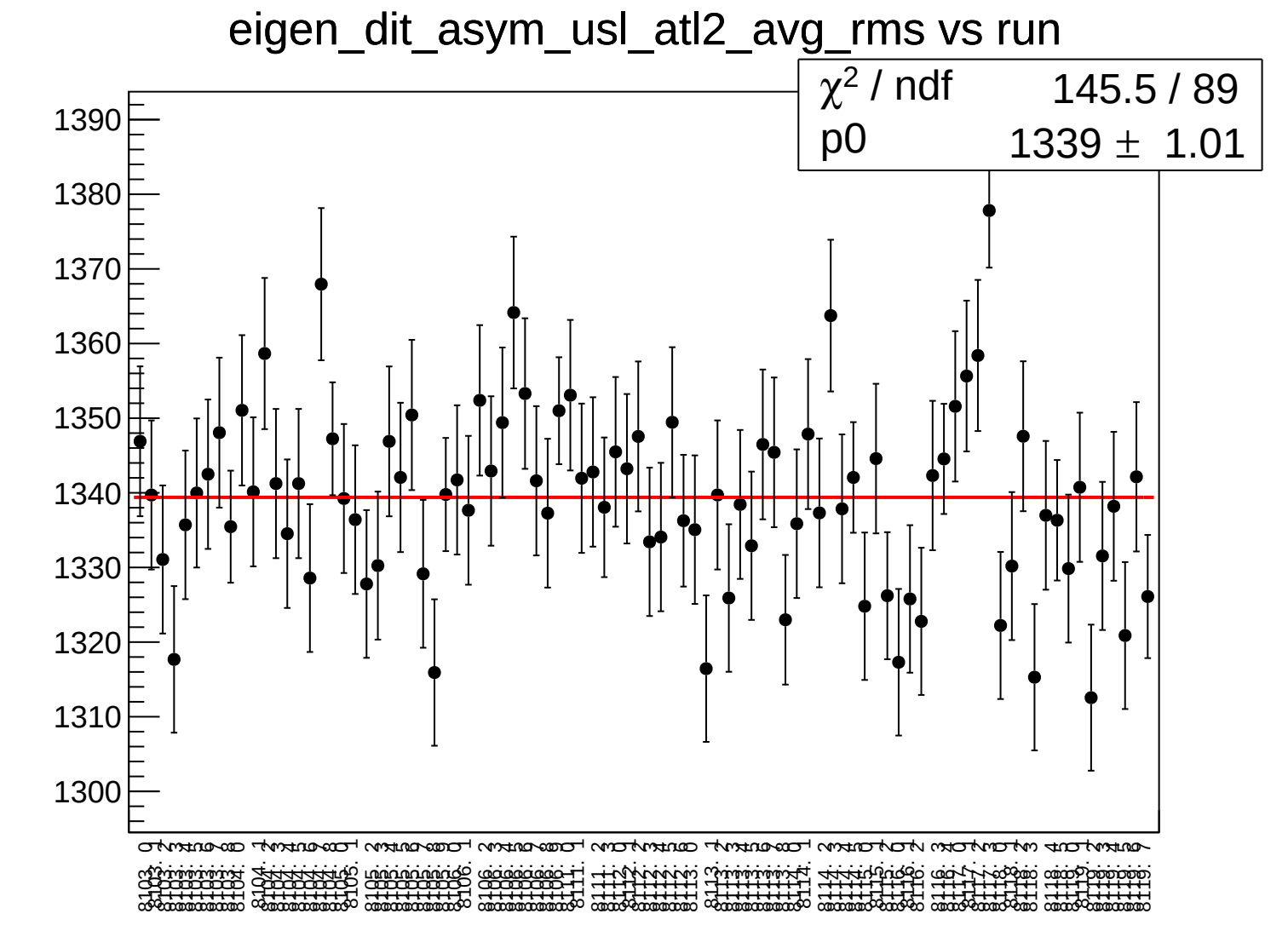

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.95 / 89
p0 3287 ± 4507
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean 1068
Std Dev 0
2
1
0
−1
−2
−3

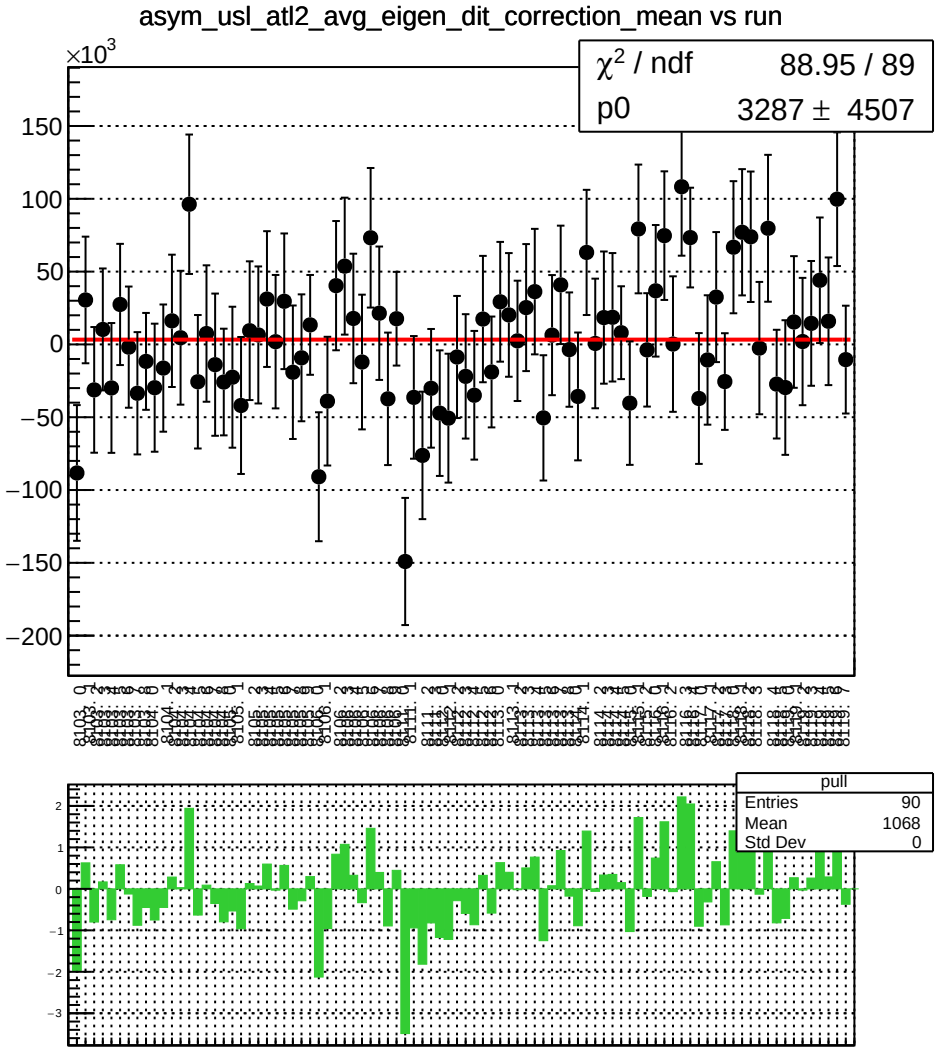

pull1D
Entries 90
Mean 0.007555
Std Dev 0.9941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

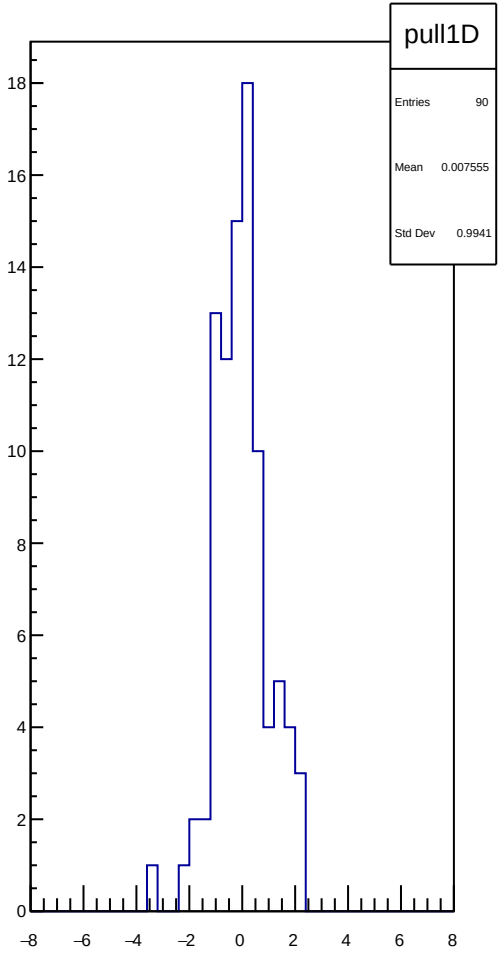

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 3086 / 89
p0 4222 ± 3.187
4800
4600
4400
4200
4000
3800

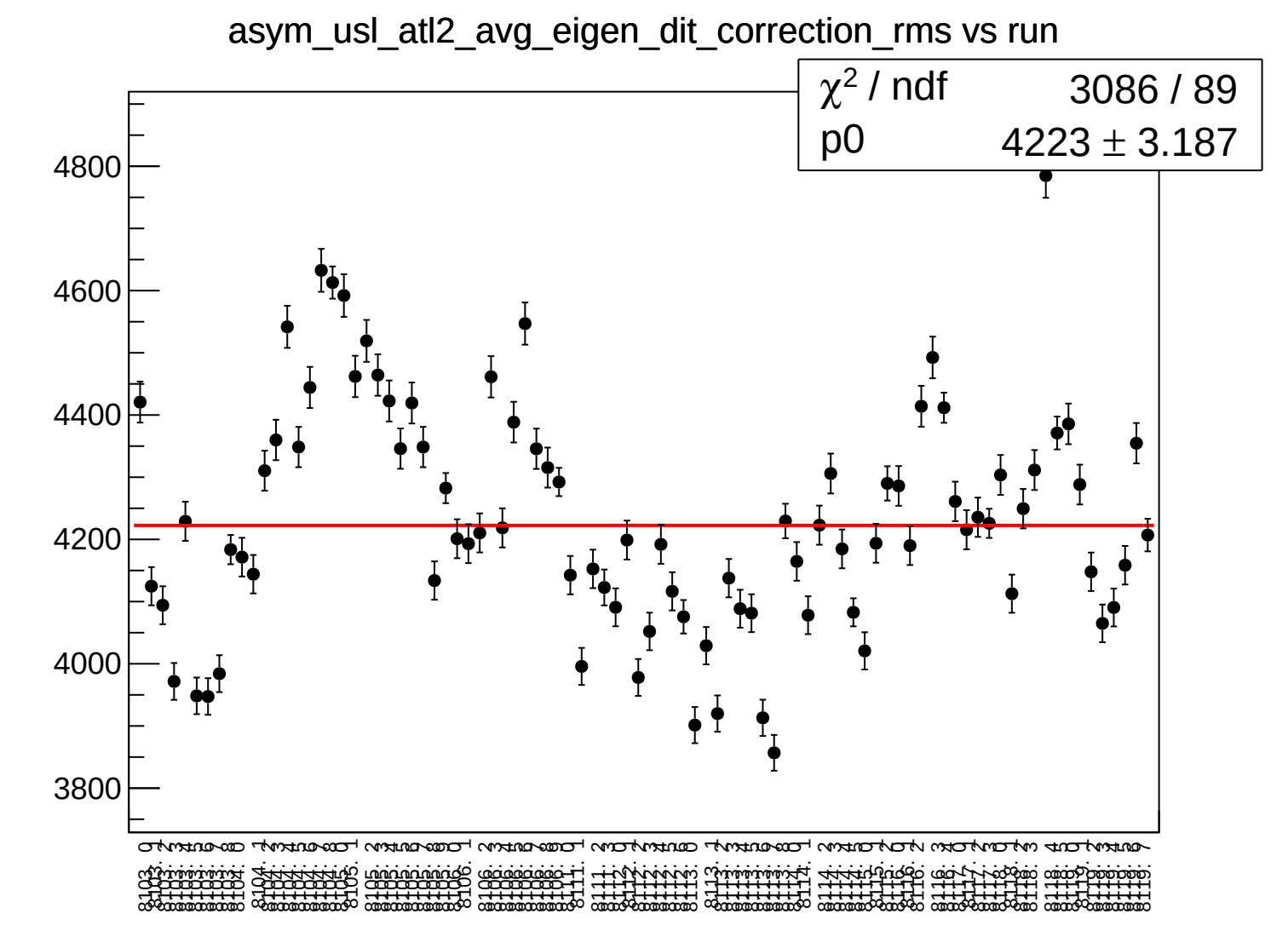

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 107 / 89
p0 2435 ± 1428
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 3270
Std Dev 0
3
2
1
0
−1
−2
−3

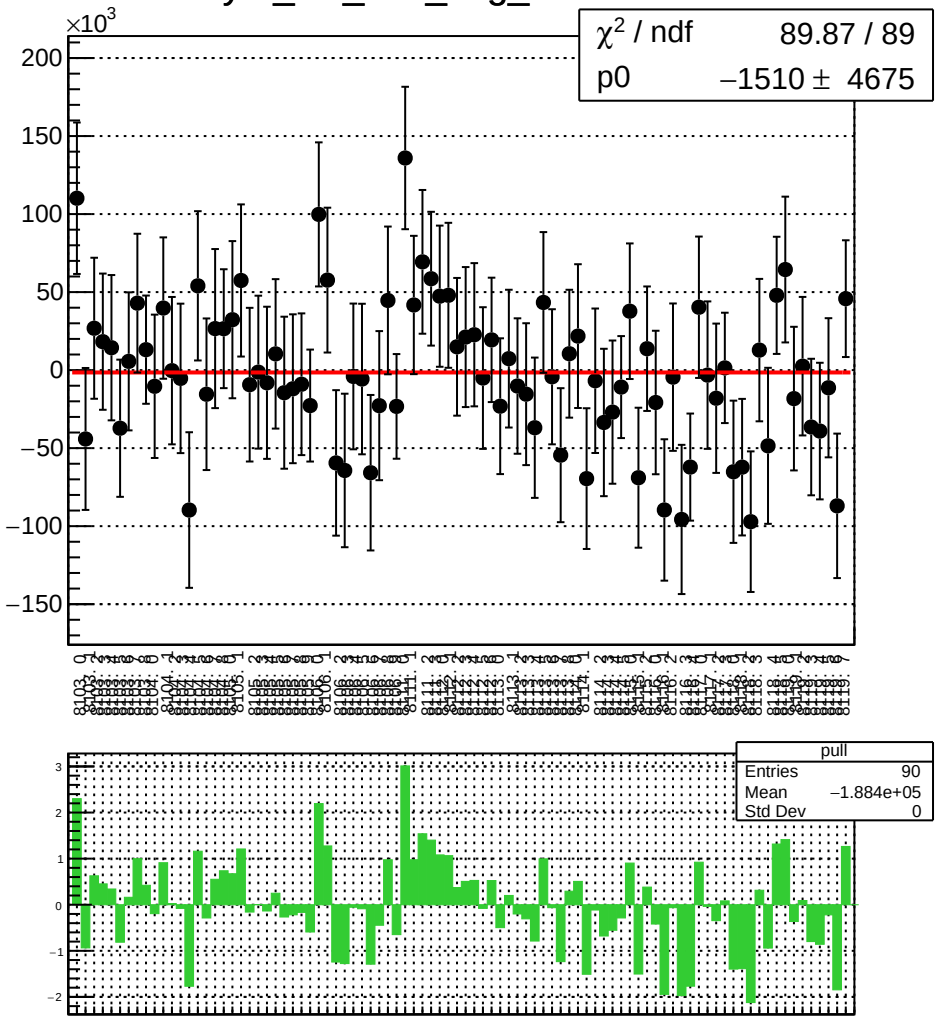

pull1D
Entries 90
Mean 0.0005145
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

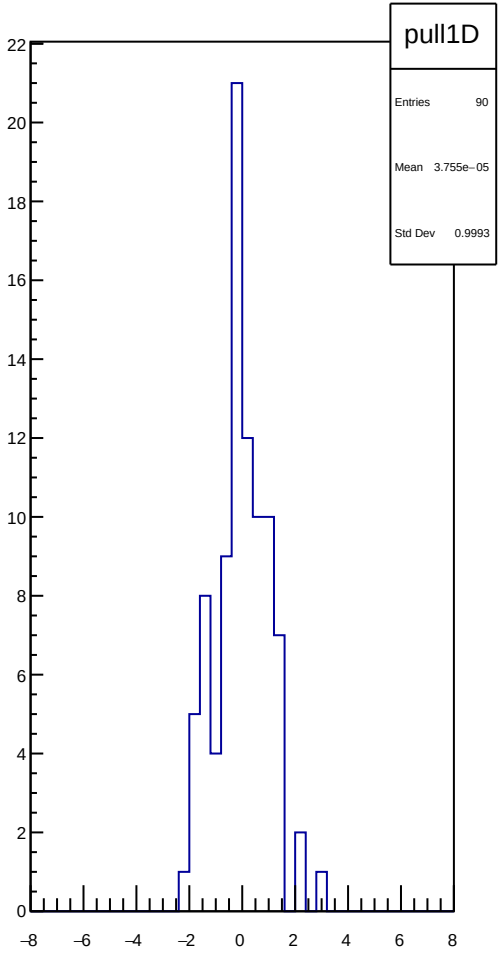

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 145.5 / 89
p0 1339 ± 1.01
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300

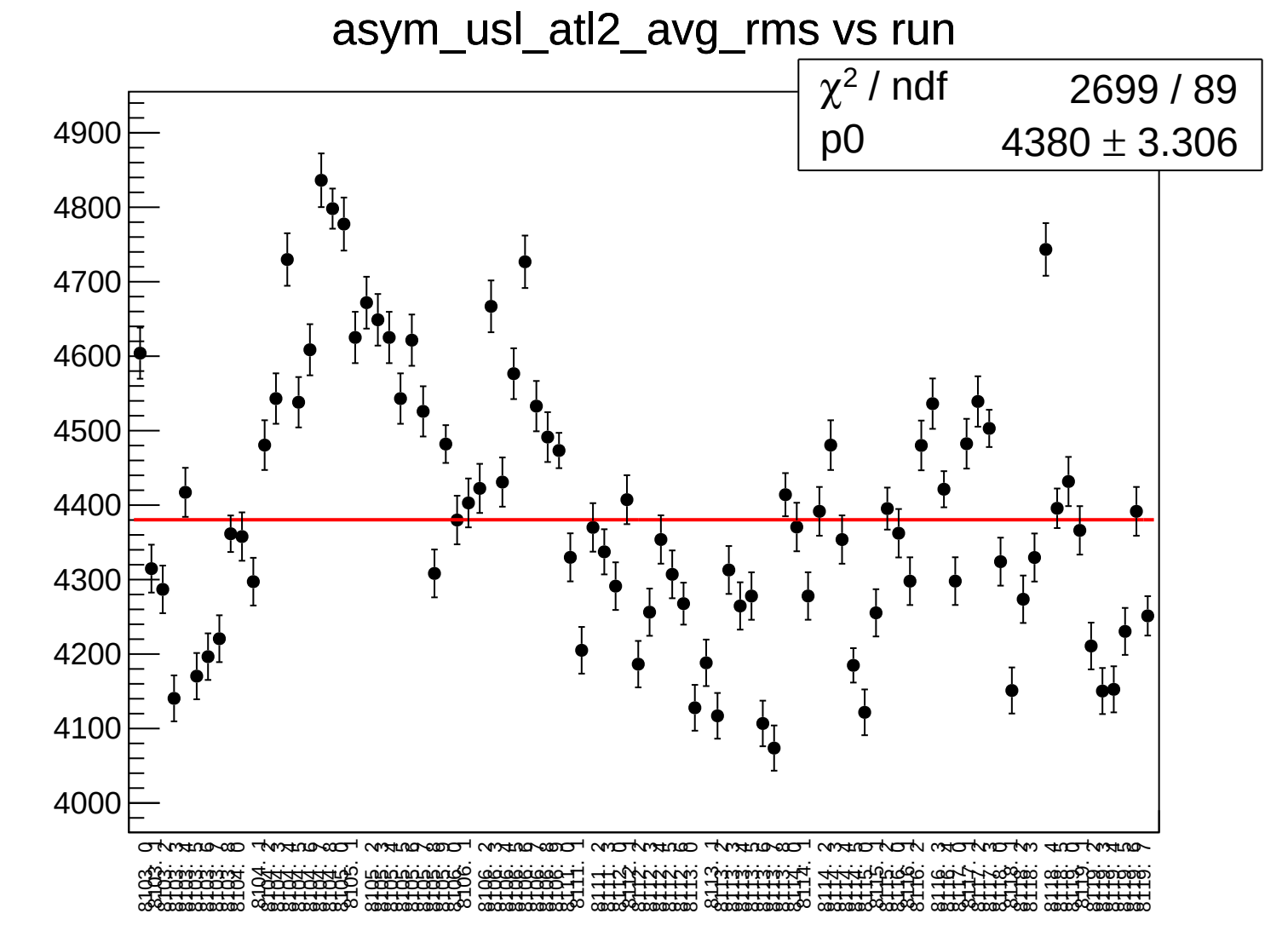

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.95 / 89
p0 3287 ± 4507
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean 1068
Std Dev 0
2
1
0
−1
−2
−3

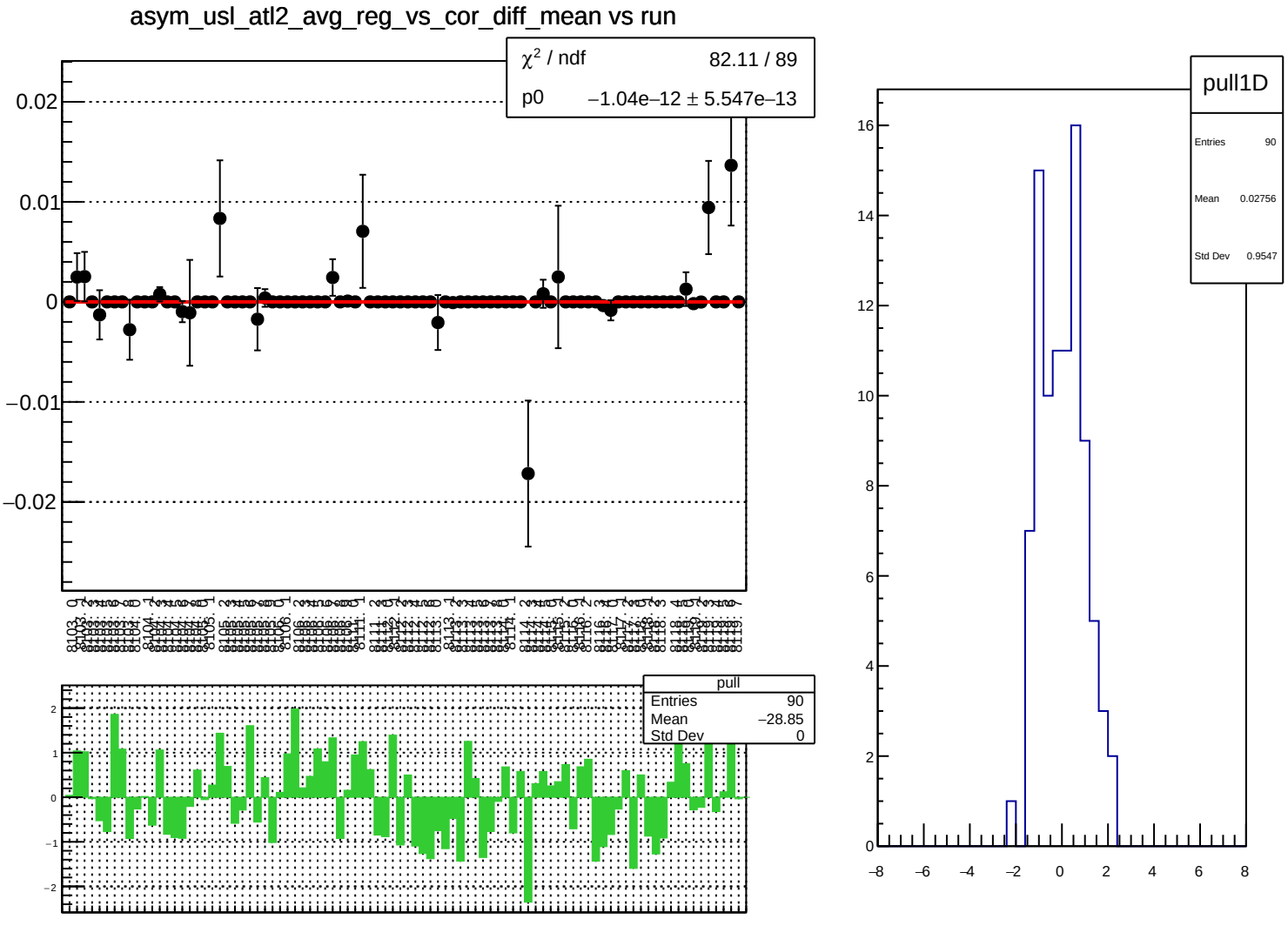

pull1D
Entries 90
Mean 0.007555
Std Dev 0.9941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

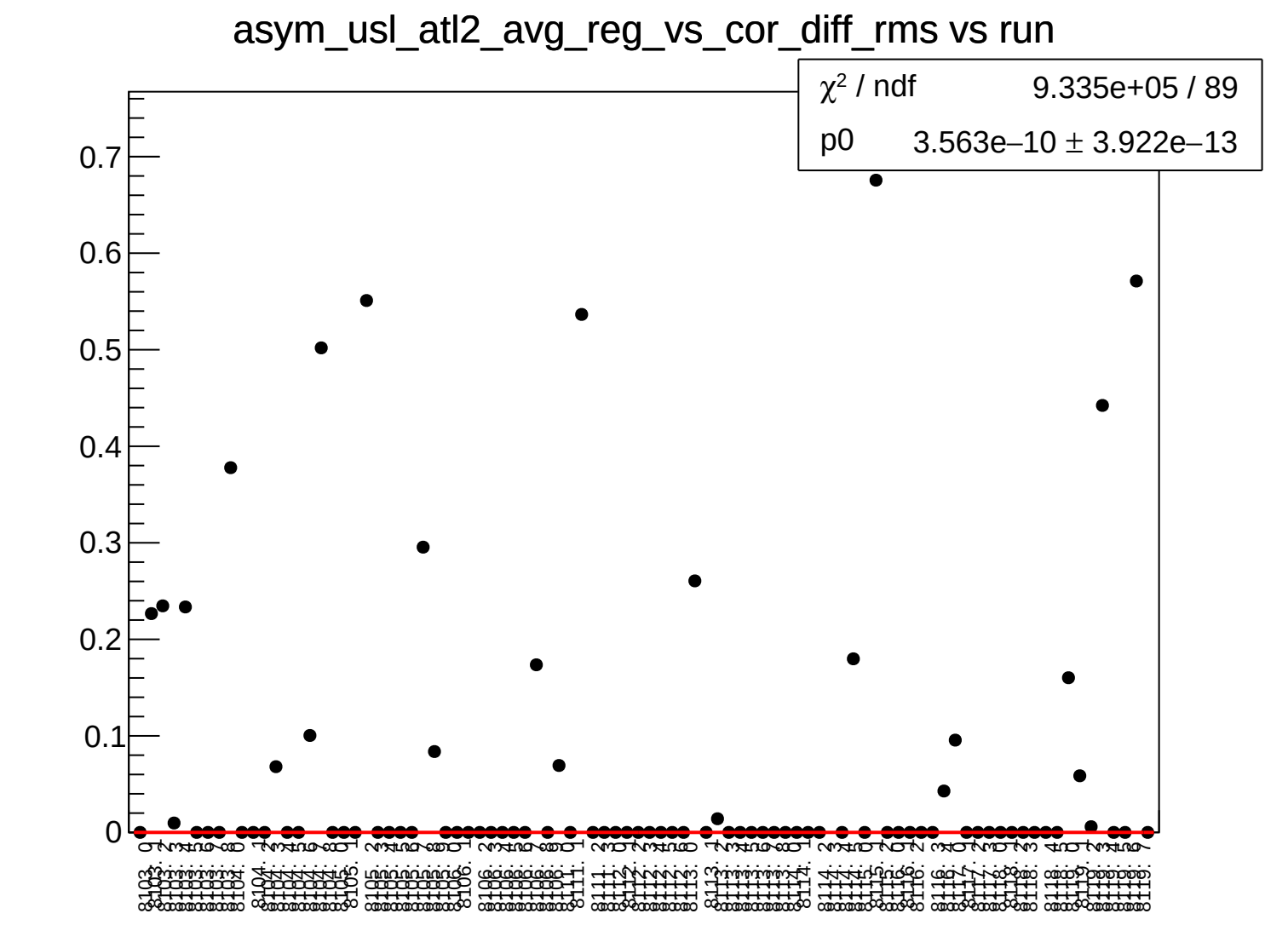

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3086 / 89
p0 4223 ± 3.187
4800
4600
4400
4200
4000
3800

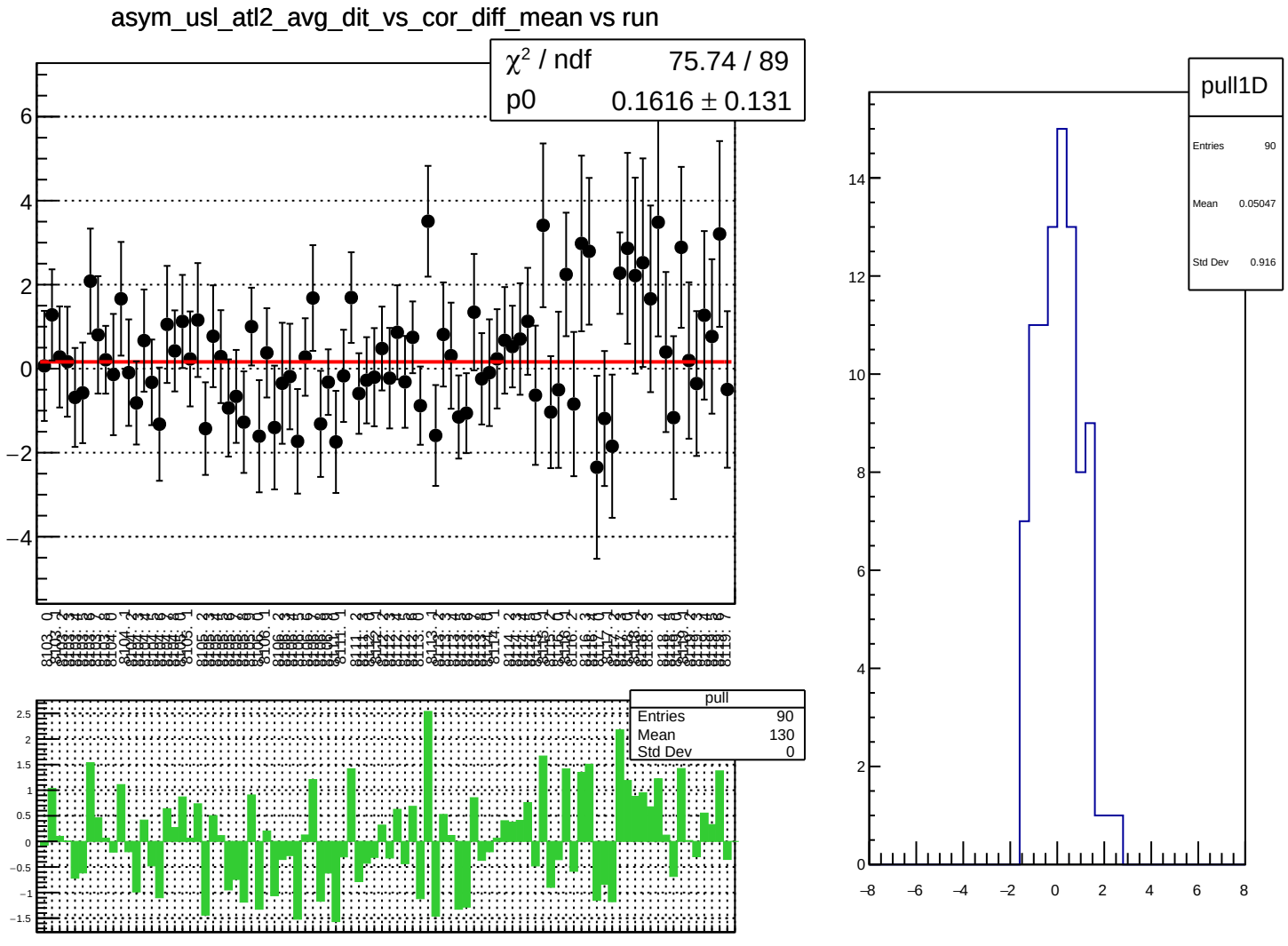

asym_usl_atl2_avg_mean vs run
χ² / ndf 89.87 / 89
p0 −1510 ± 4675
pull
Entries 90
Mean −1.884e+05
Std Dev 0

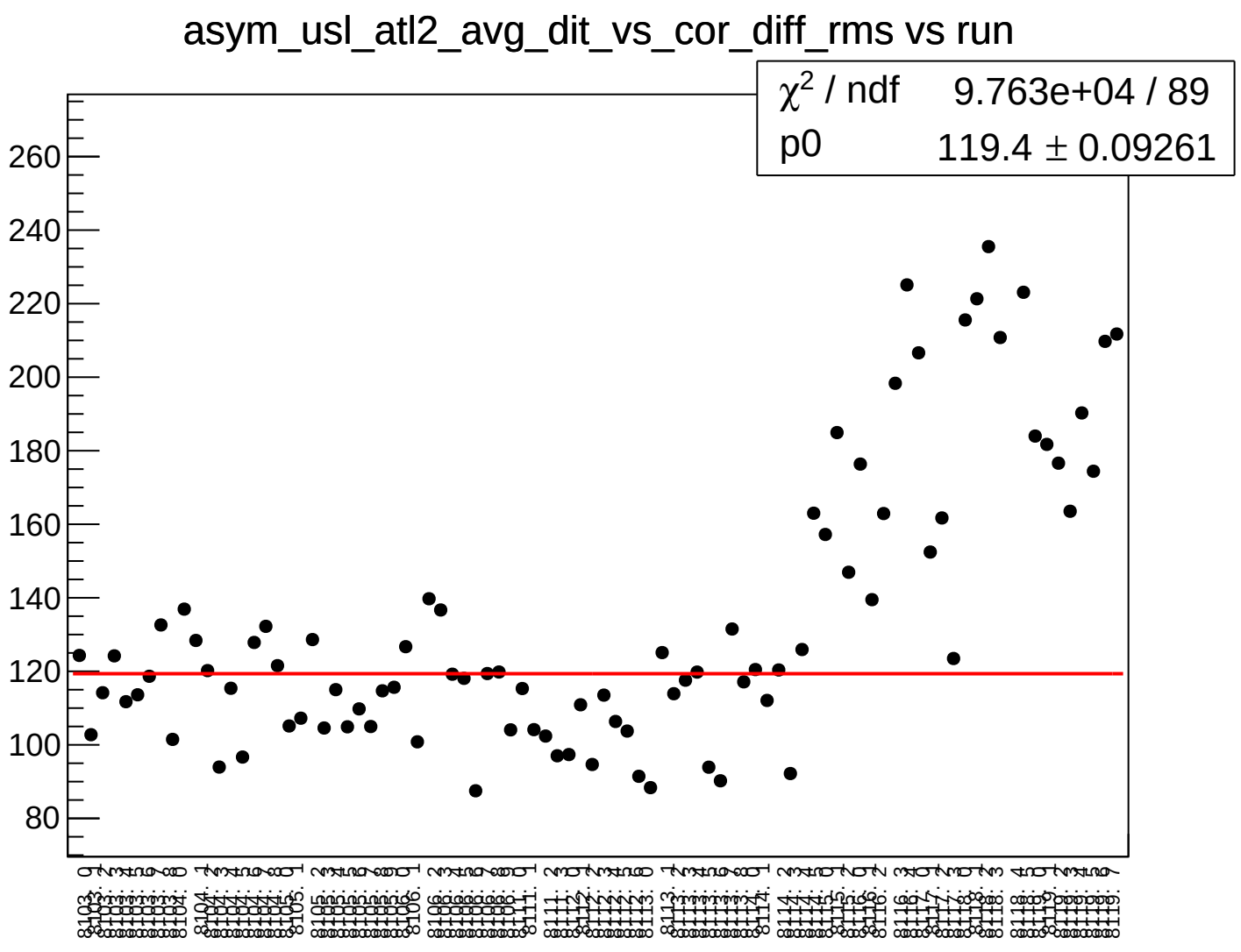

pull1D
Entries 90
Mean 3.755e−05
Std Dev 0.9993

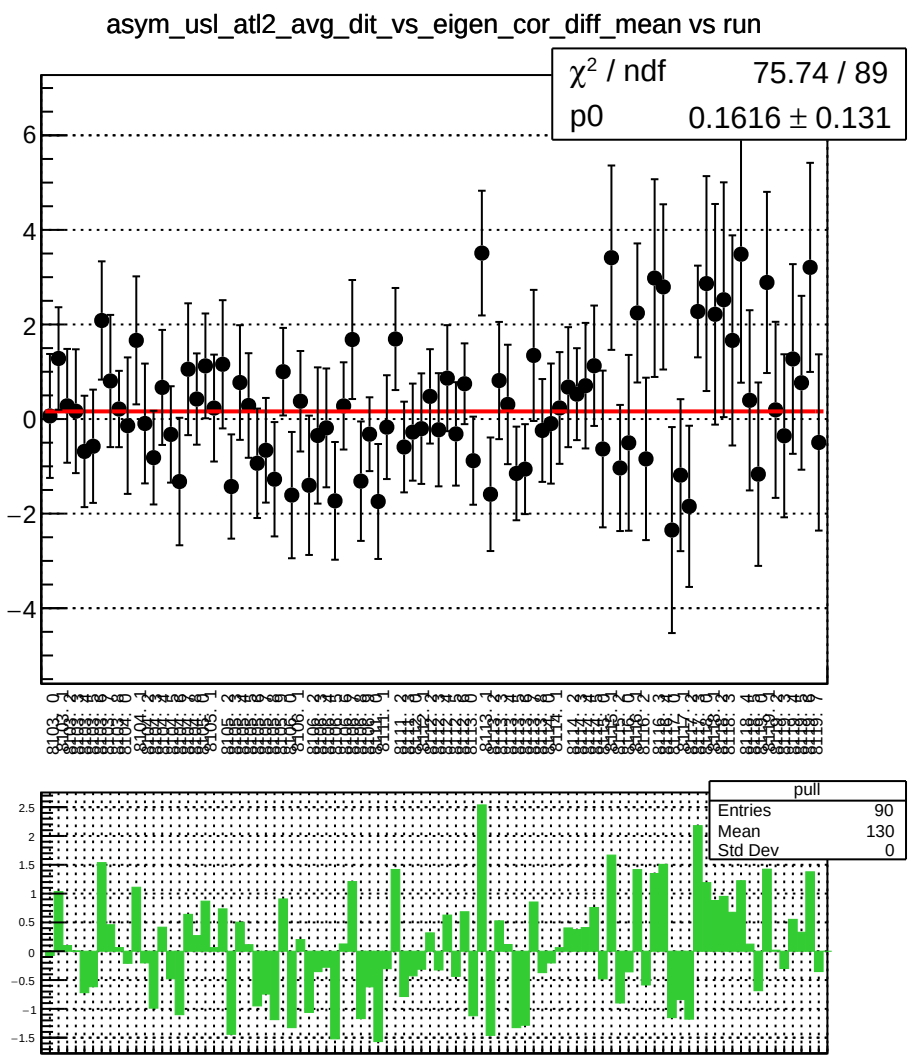

asym_usl_atl2_avg_rms vs run
χ² / ndf 2699 / 89
p0 4380 ± 3.306
4900
4800
4700
4600
4500
4400
4300
4200
4100
4000

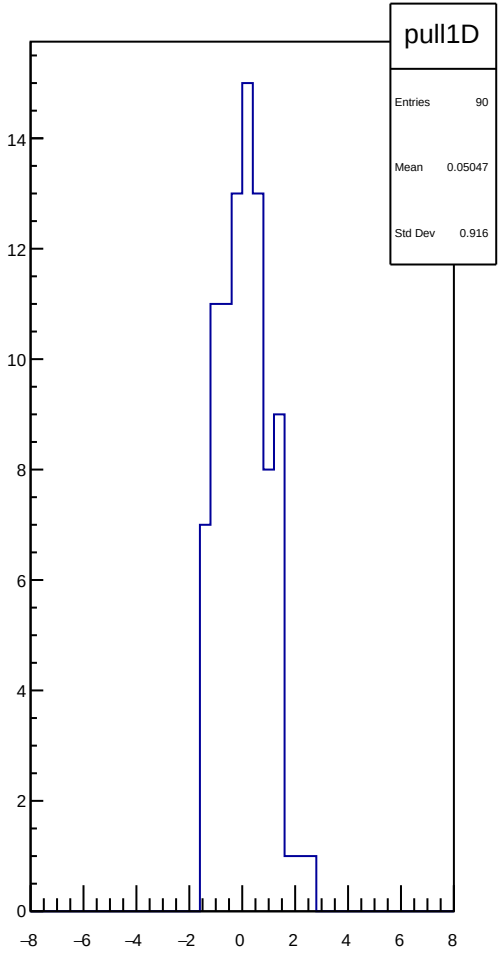

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.11 / 89
p0 −1.04e−12 ± 5.547e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean −28.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.02756
Std Dev 0.9547
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

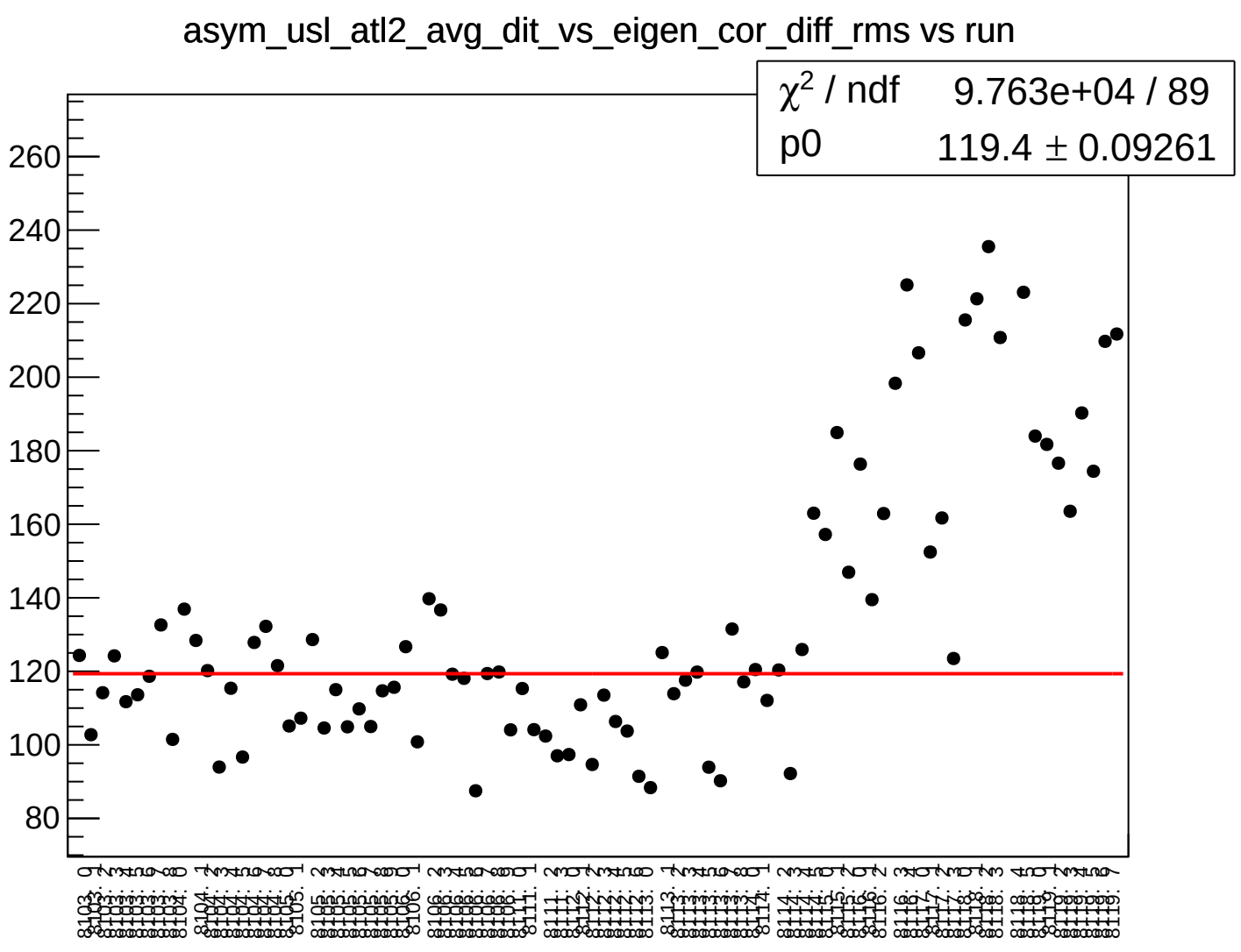

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.335e+05 / 89
p0 3.563e−10 ± 3.922e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

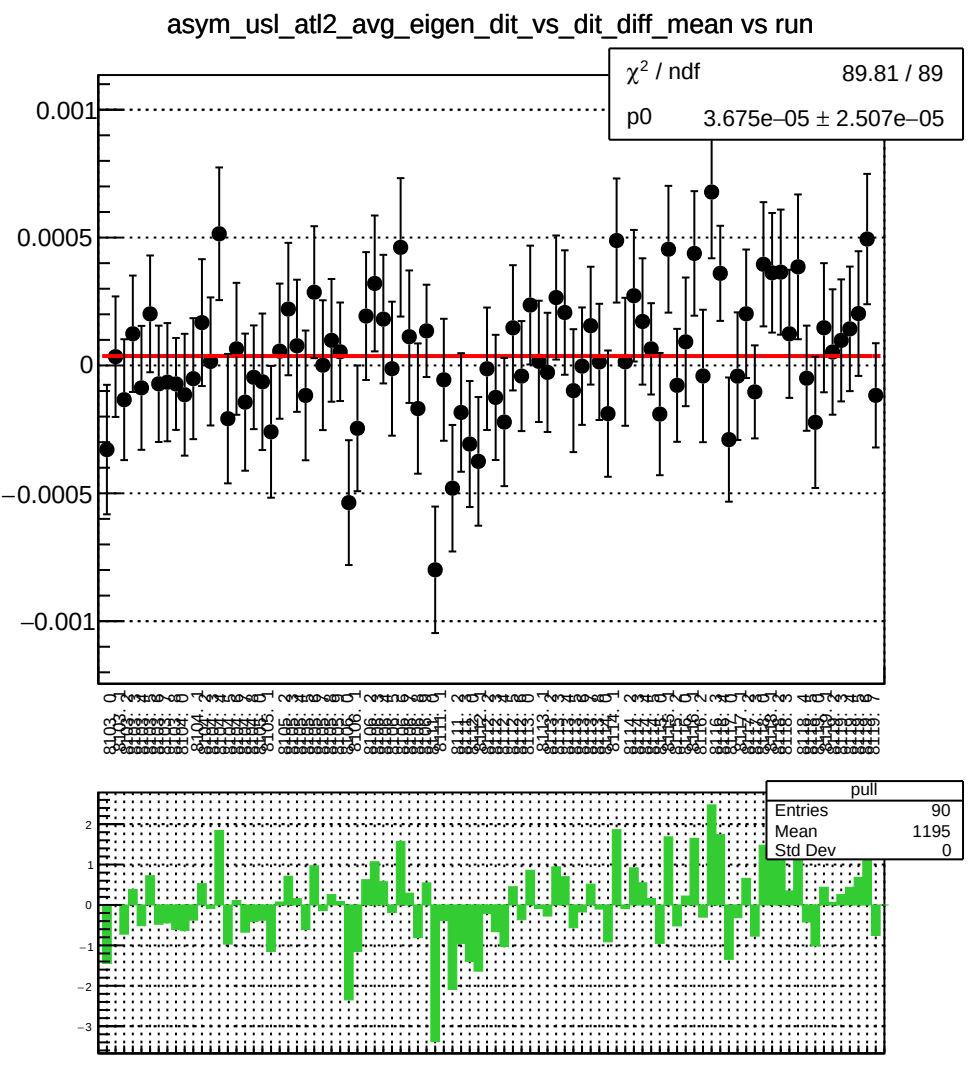

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.74 / 89
p0 0.1616 ± 0.131
pull
Entries 90
Mean 130
Std Dev 0
pull1D
Entries 90
Mean 0.05047
Std Dev 0.916

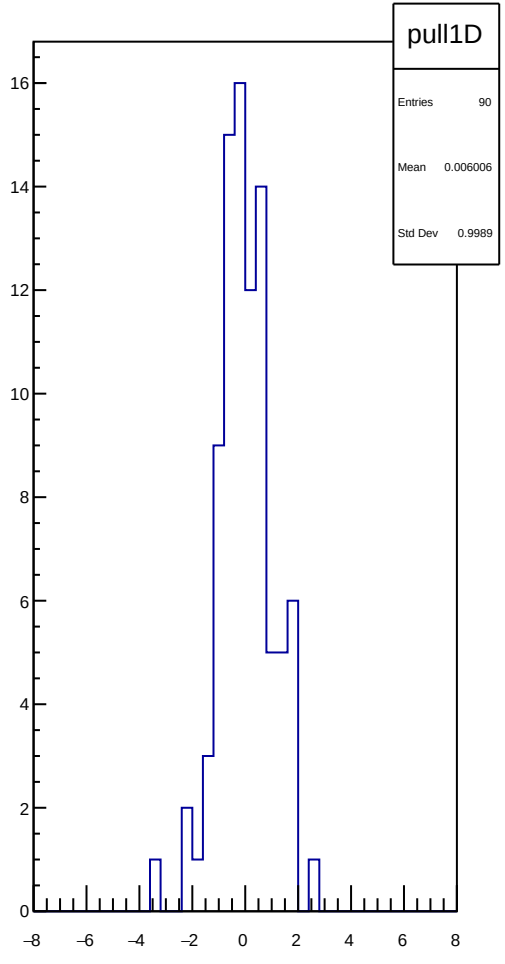

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.763e+04 / 89
p0 119.4 ± 0.09261
260
240
220
200
180
160
140
120
100
80

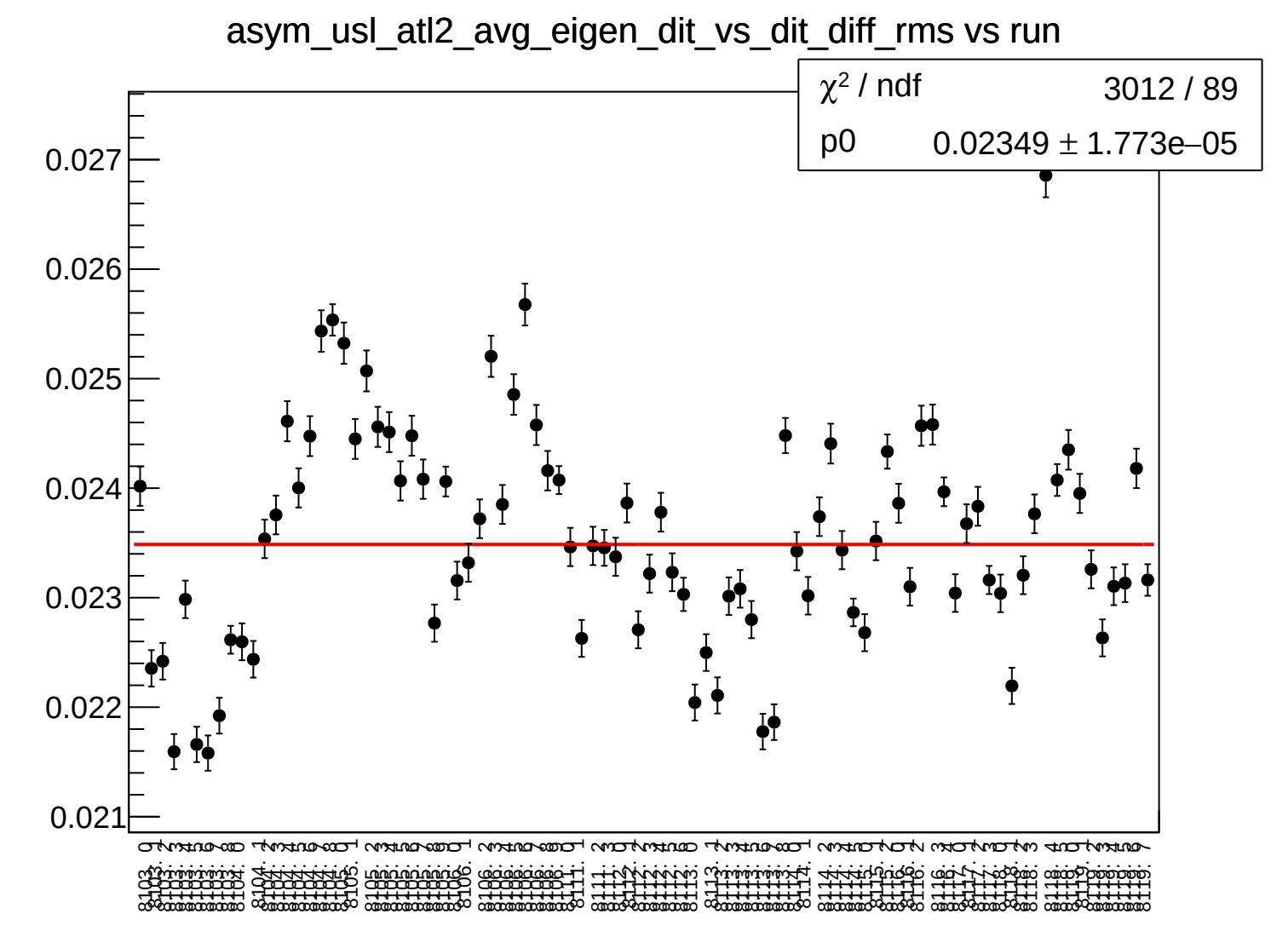

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.74 / 89
p0 0.1616 ± 0.131
pull
Entries 90
Mean 130
Std Dev 0

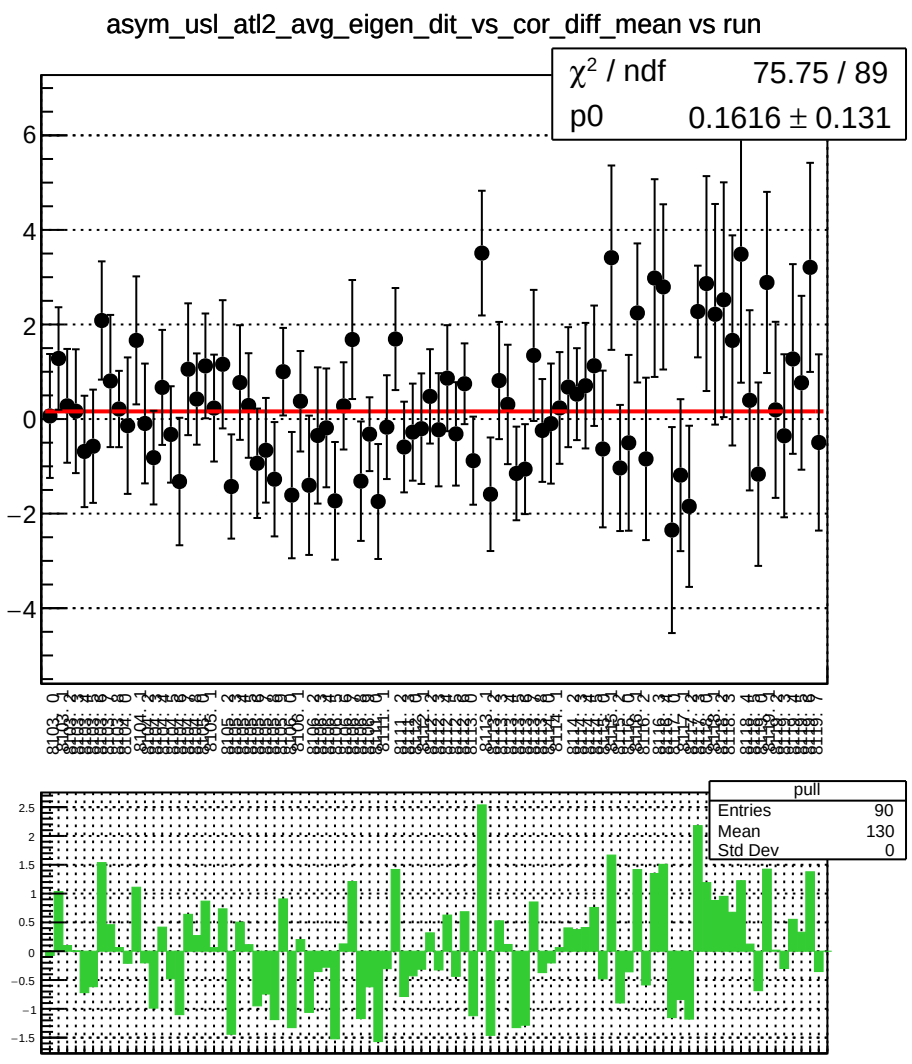

pull1D
Entries 90
Mean 0.05047
Std Dev 0.916

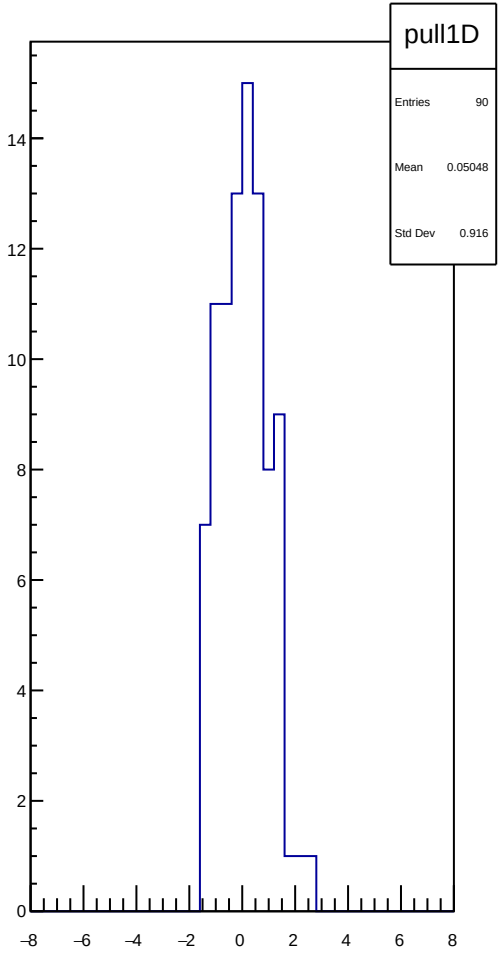

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.763e+04 / 89
p0 119.4 ± 0.09261
260
240
220
200
180
160
140
120
100
80

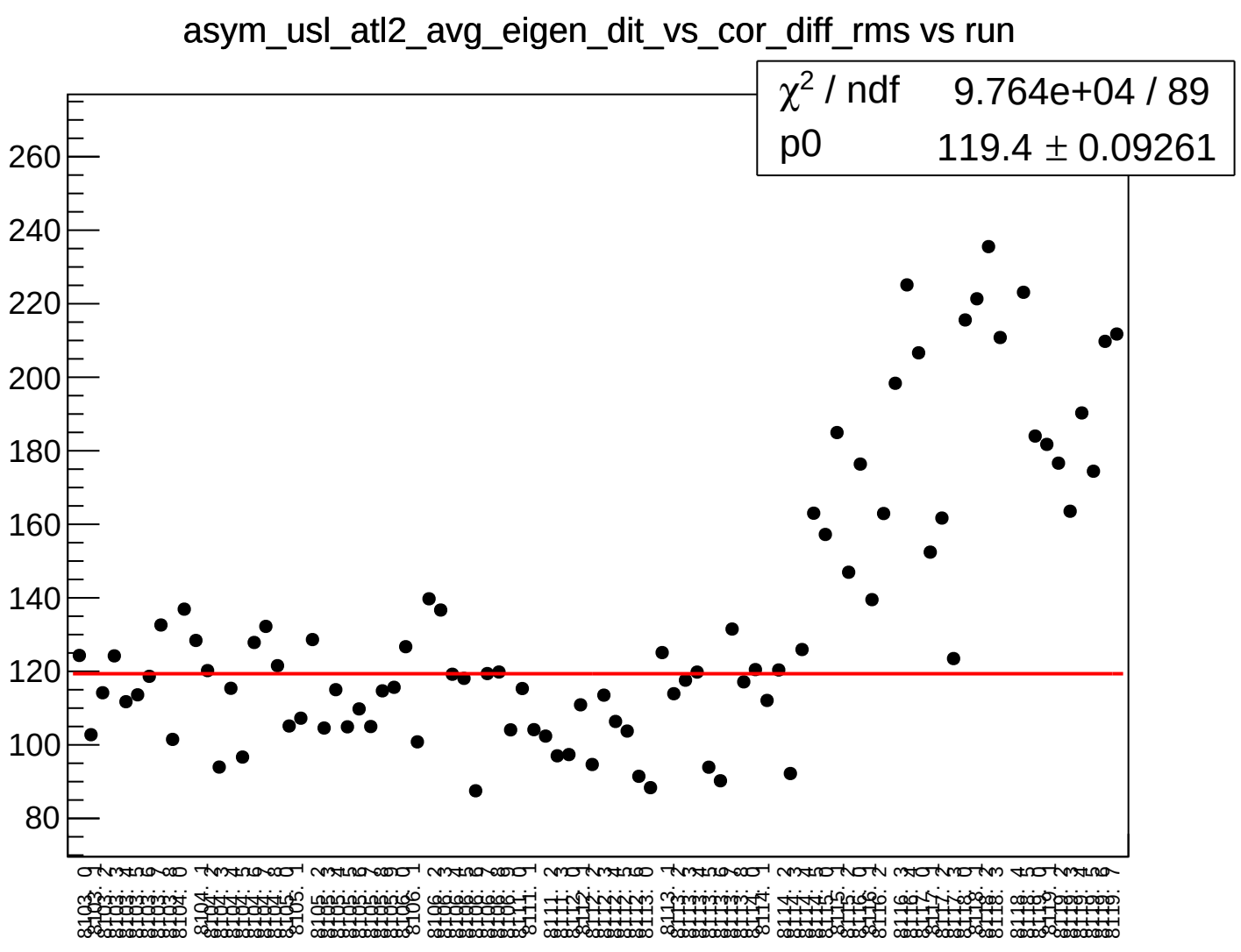

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.81 / 89
p0 3.675e−05 ± 2.507e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 1195
Std Dev 0
2
1
0
−1
−2
−3

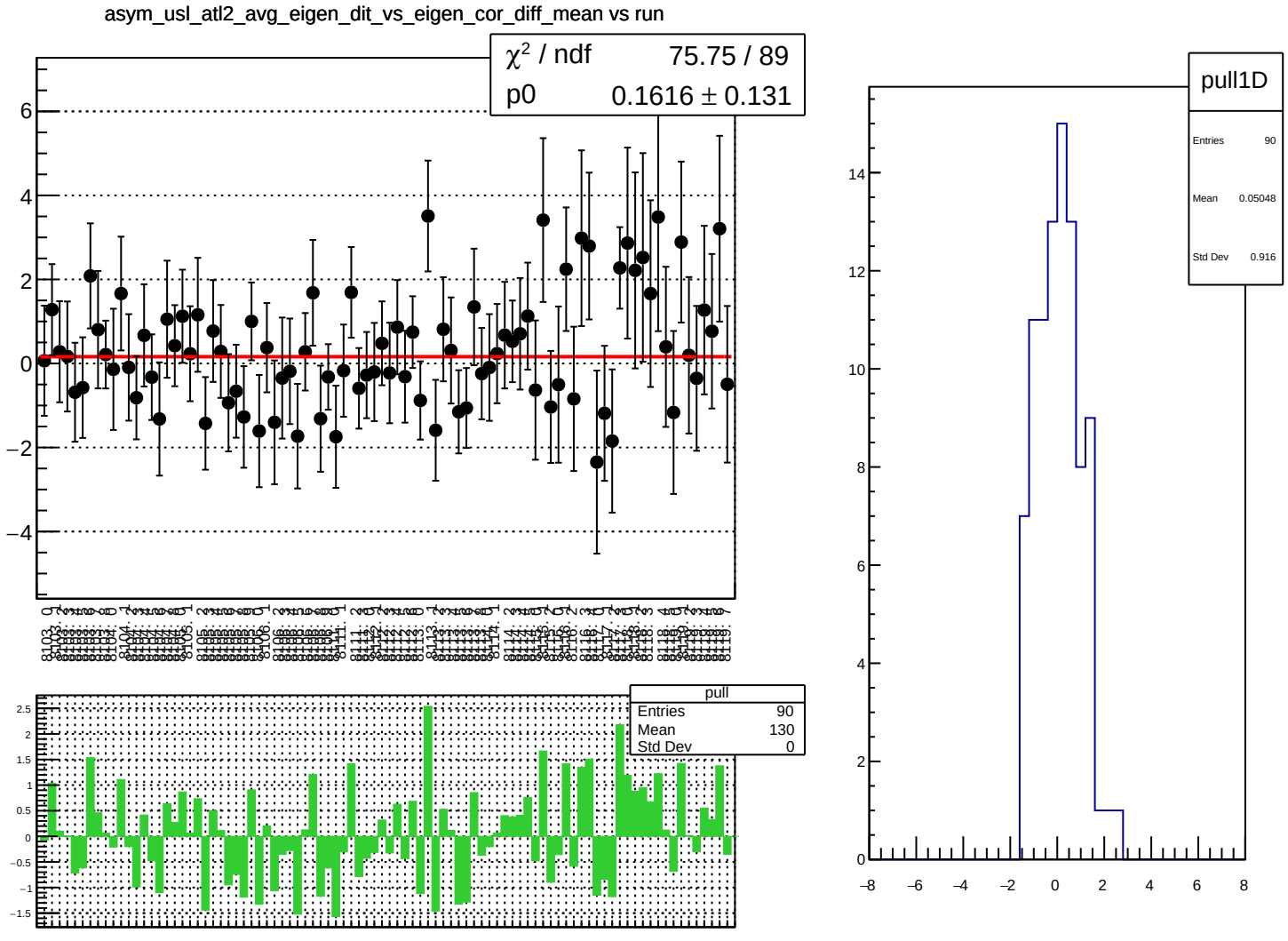

pull1D
Entries 90
Mean 0.006006
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

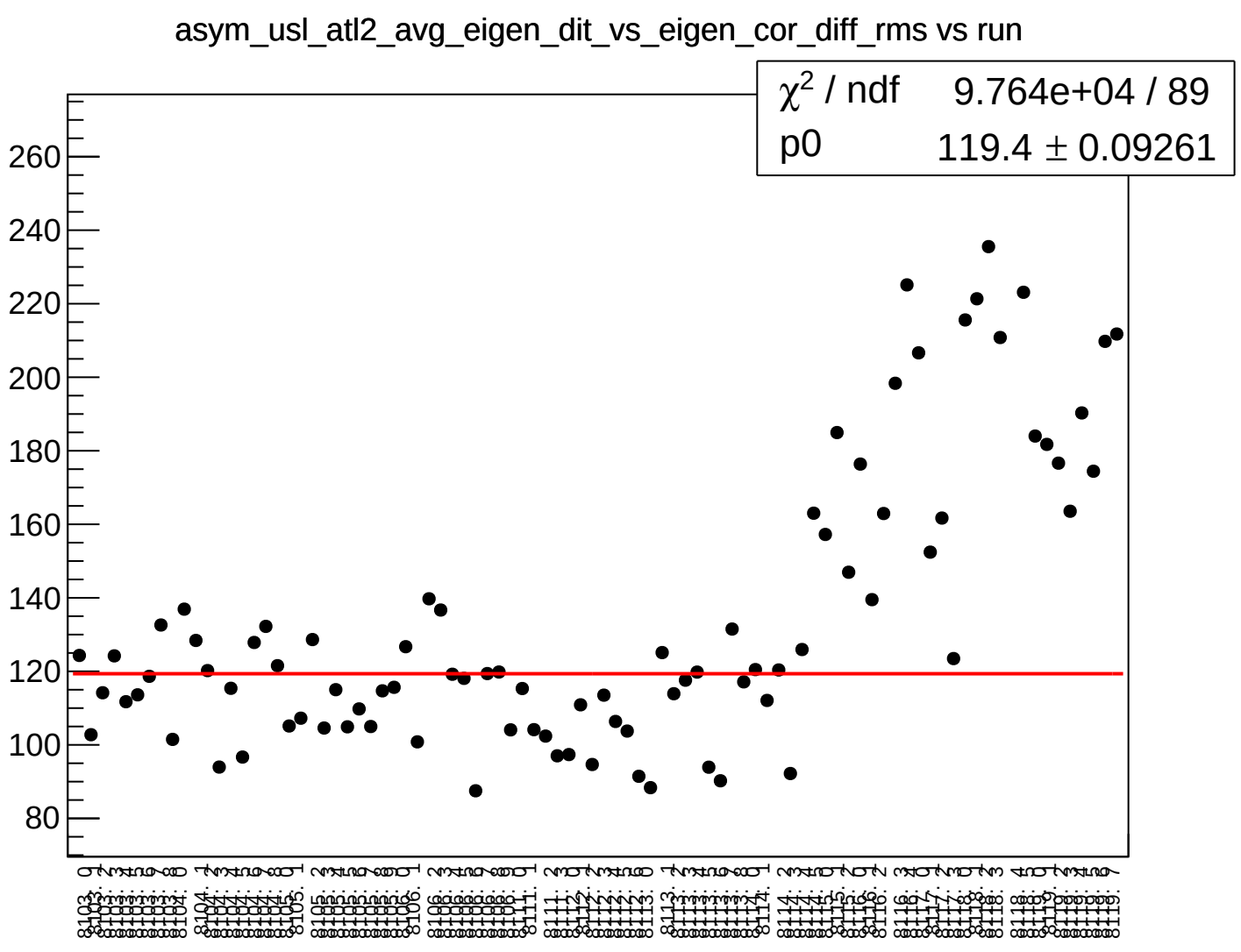

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3012 / 89
p0 0.02349 ± 1.773e−05
0.027
0.026
0.025
0.024
0.023
0.022
0.021

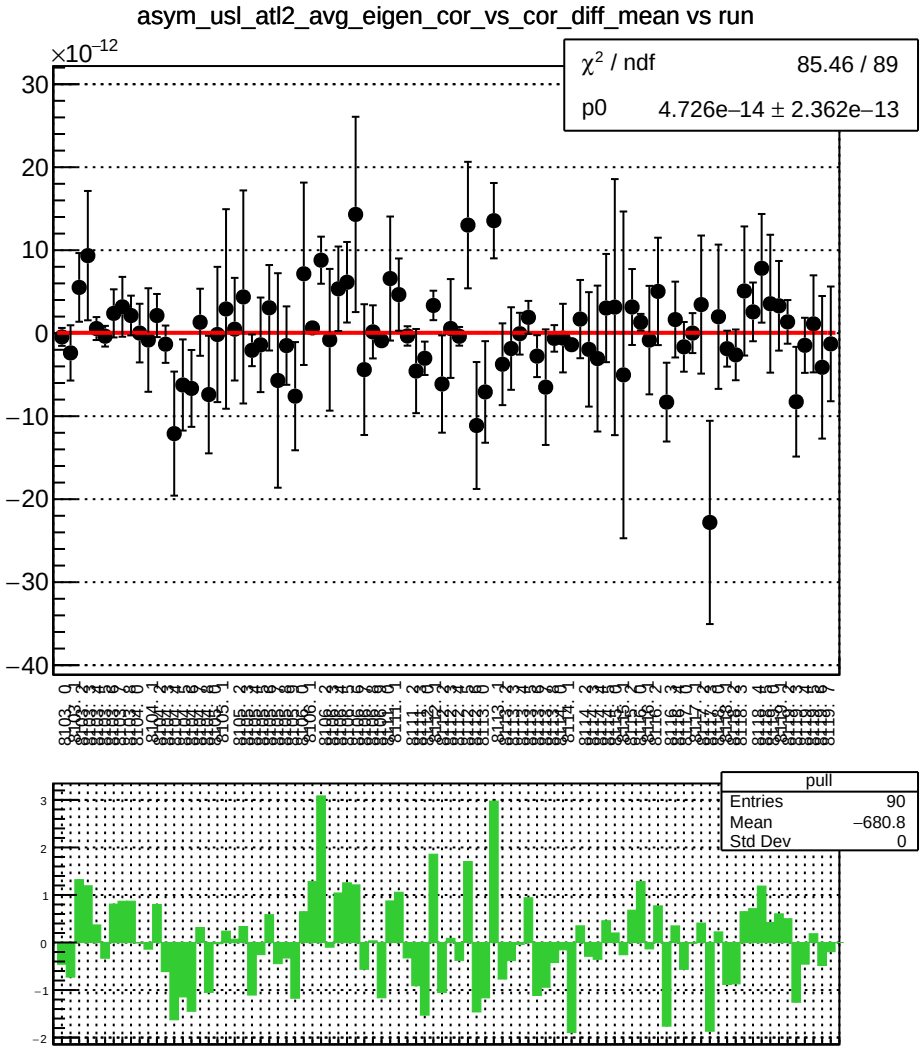

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.75 / 89
p0 0.1616 ± 0.131
pull
Entries 90
Mean 130
Std Dev 0

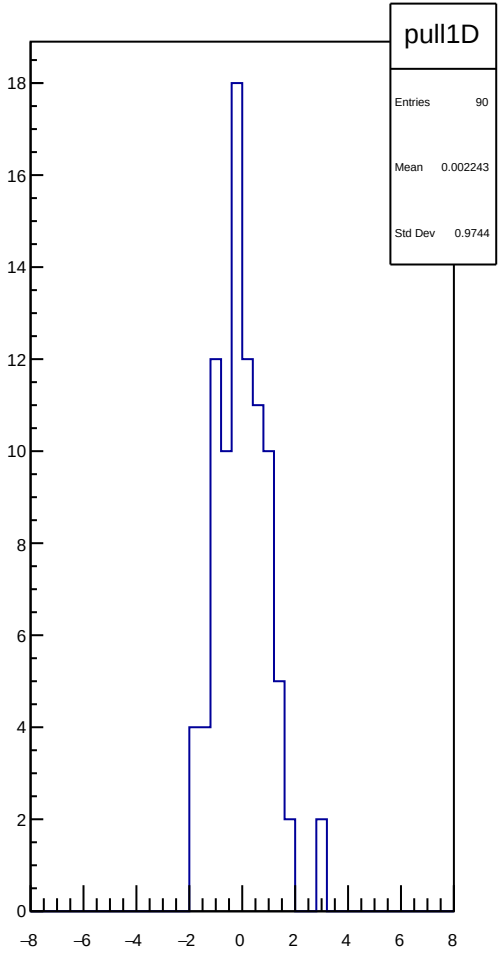

pull1D
Entries 90
Mean 0.05048
Std Dev 0.916

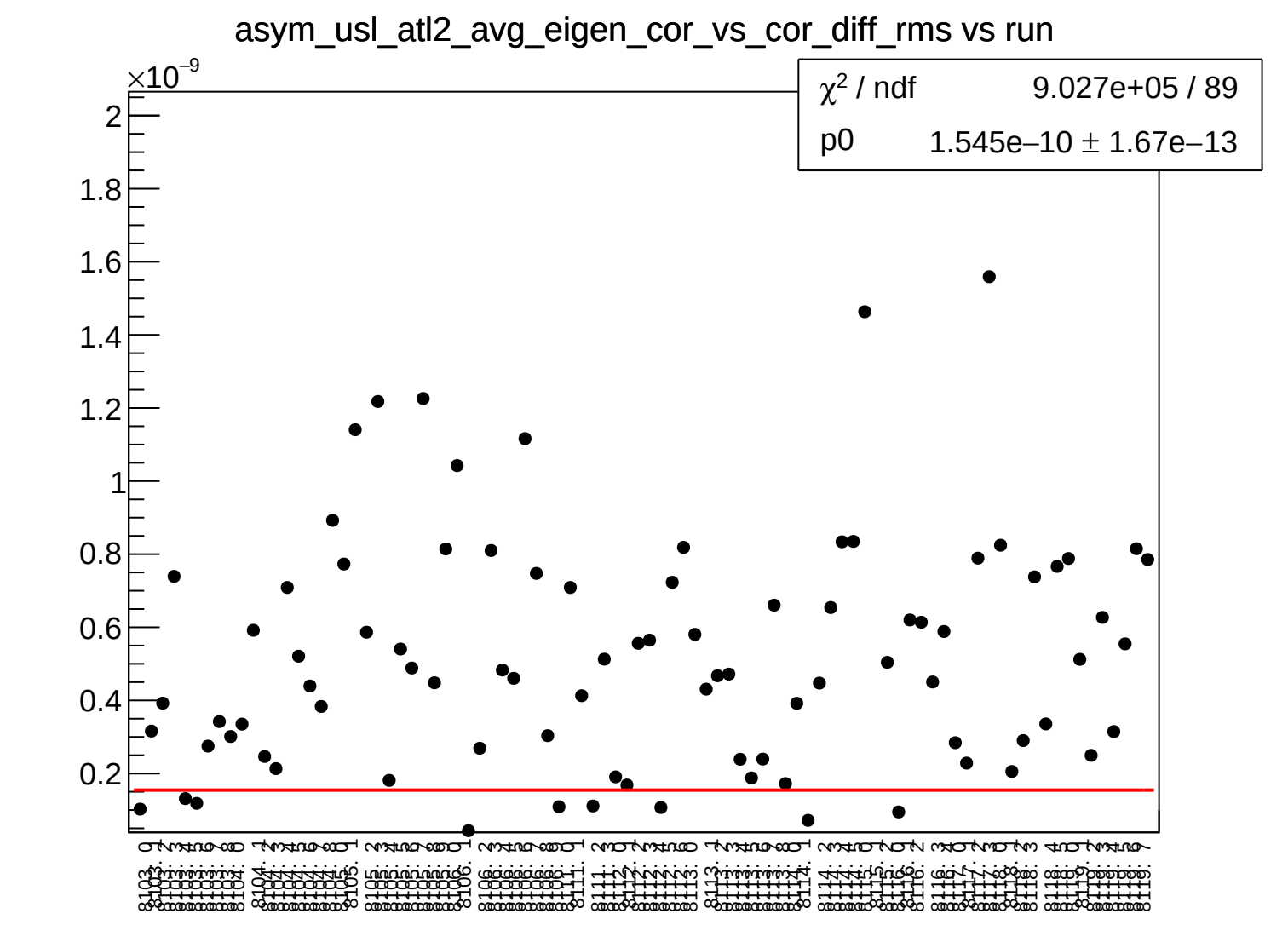

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.764e+04 / 89
p0 119.4 ± 0.09261
260
240
220
200
180
160
140
120
100
80

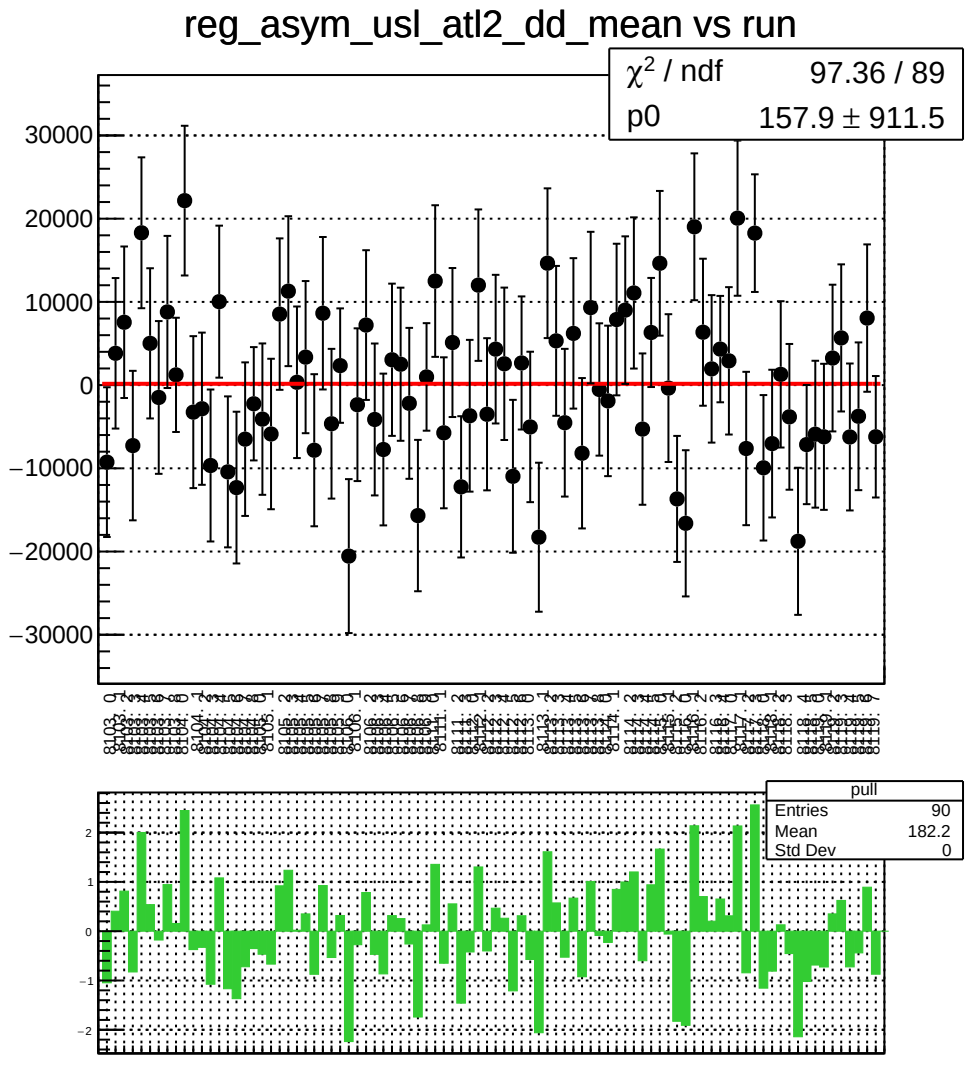

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.75 / 89
p0 0.1616 ± 0.131
pull
Entries 90
Mean 130
Std Dev 0
pull1D
Entries 90
Mean 0.05048
Std Dev 0.916

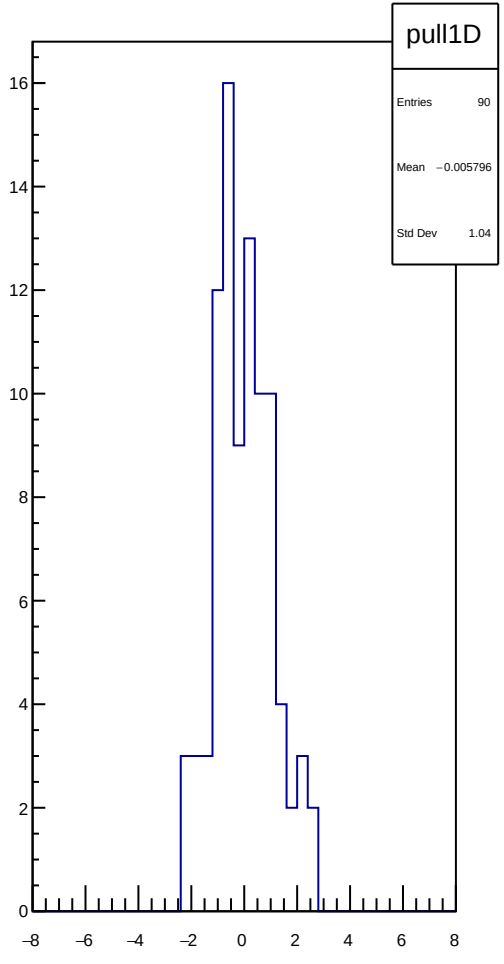

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.764e+04 / 89
p0 119.4 ± 0.09261
260
240
220
200
180
160
140
120
100
80

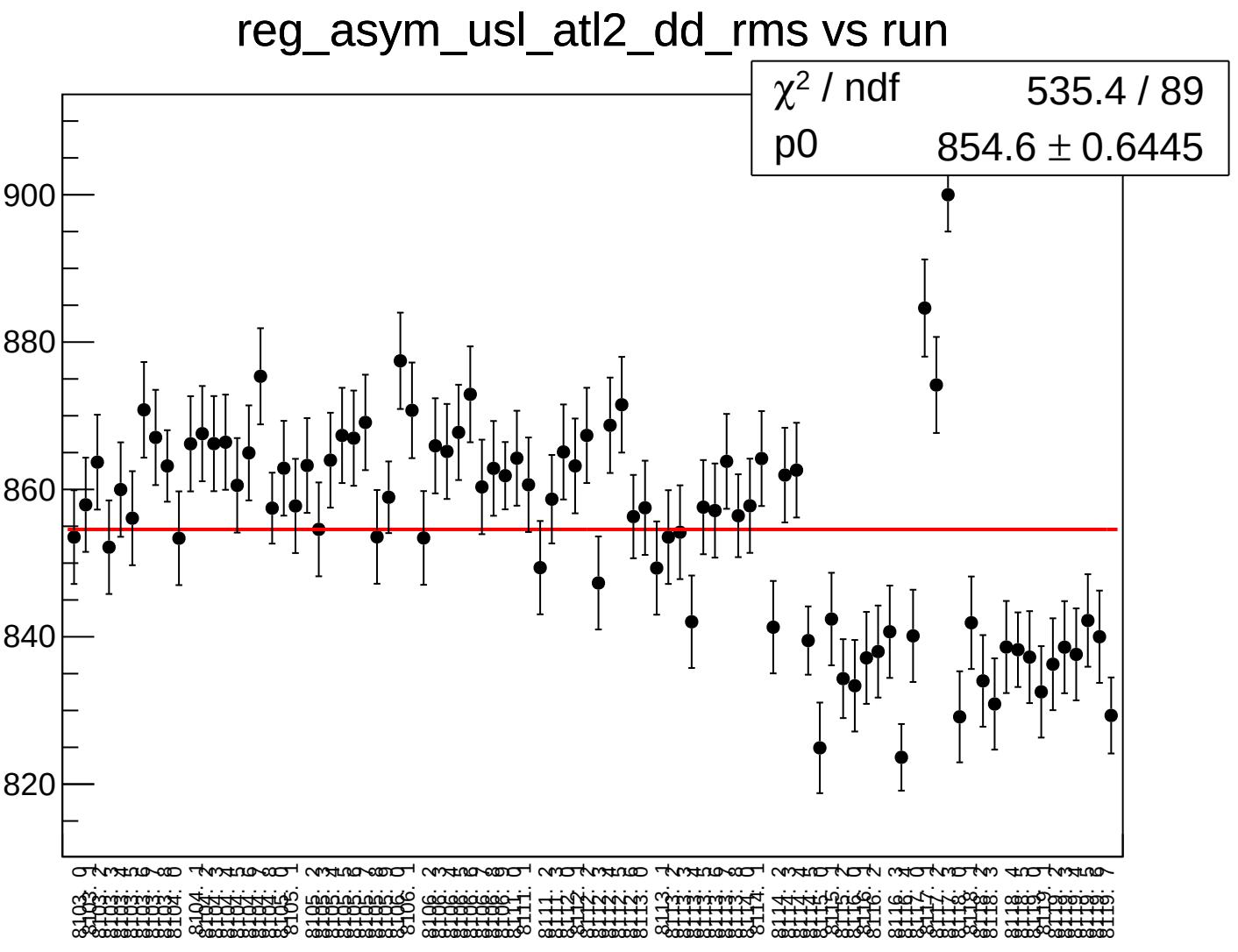

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.46 / 89
p0 4.726e−14 ± 2.362e−13
pull
Entries 90
Mean −680.8
Std Dev 0

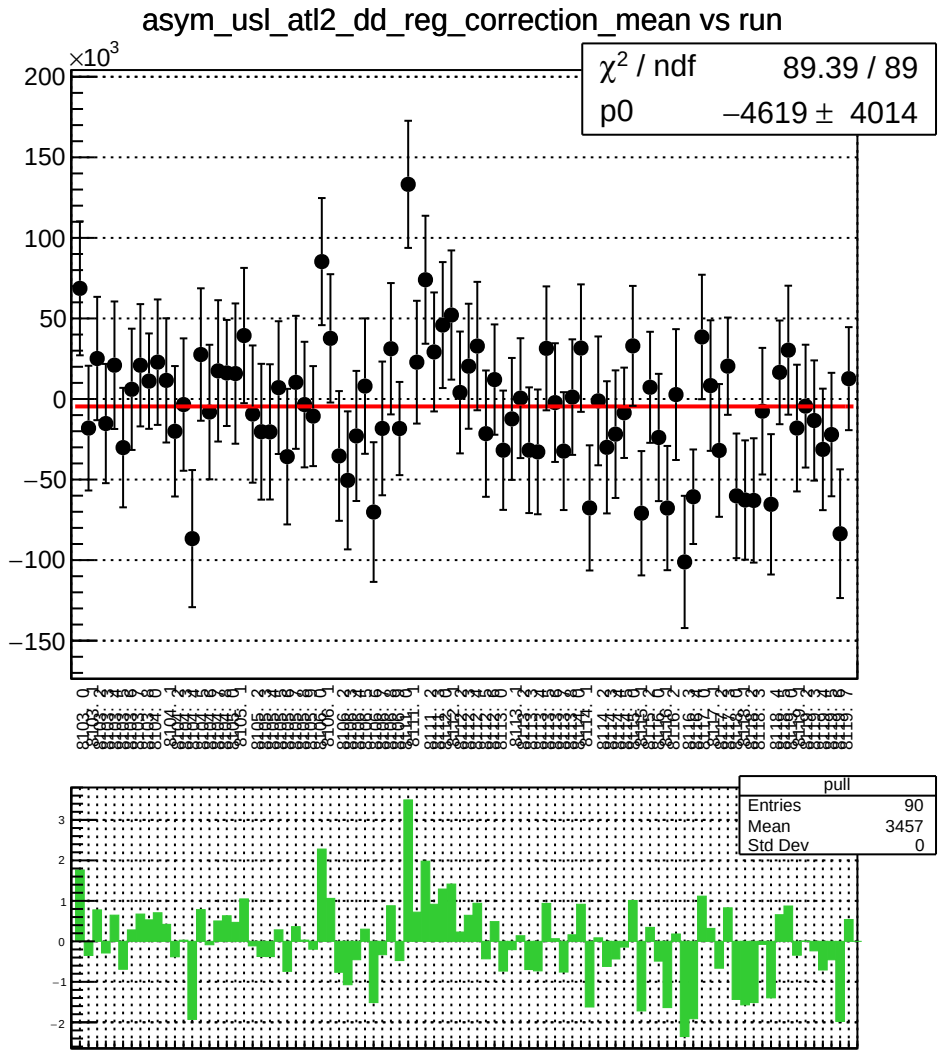

pull1D
Entries 90
Mean 0.002243
Std Dev 0.9744

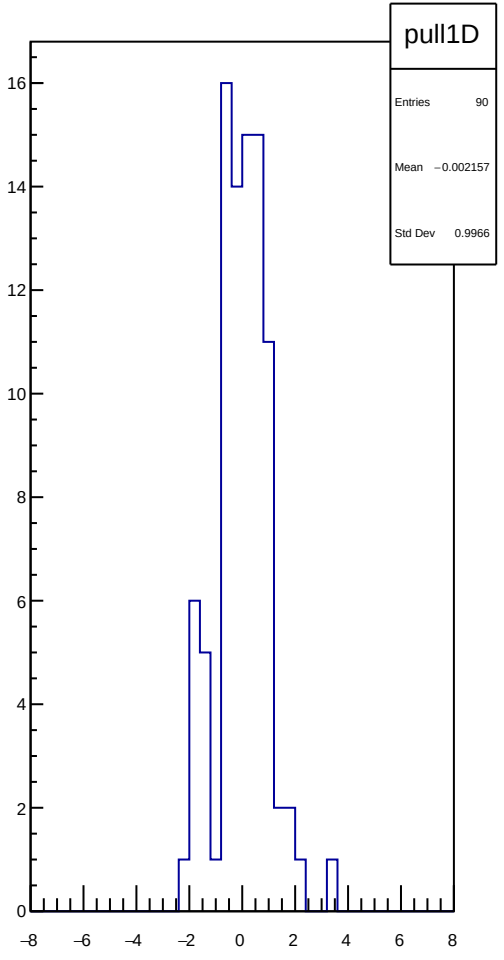

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.027e+05 / 89
p0 1.545e−10 ± 1.67e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

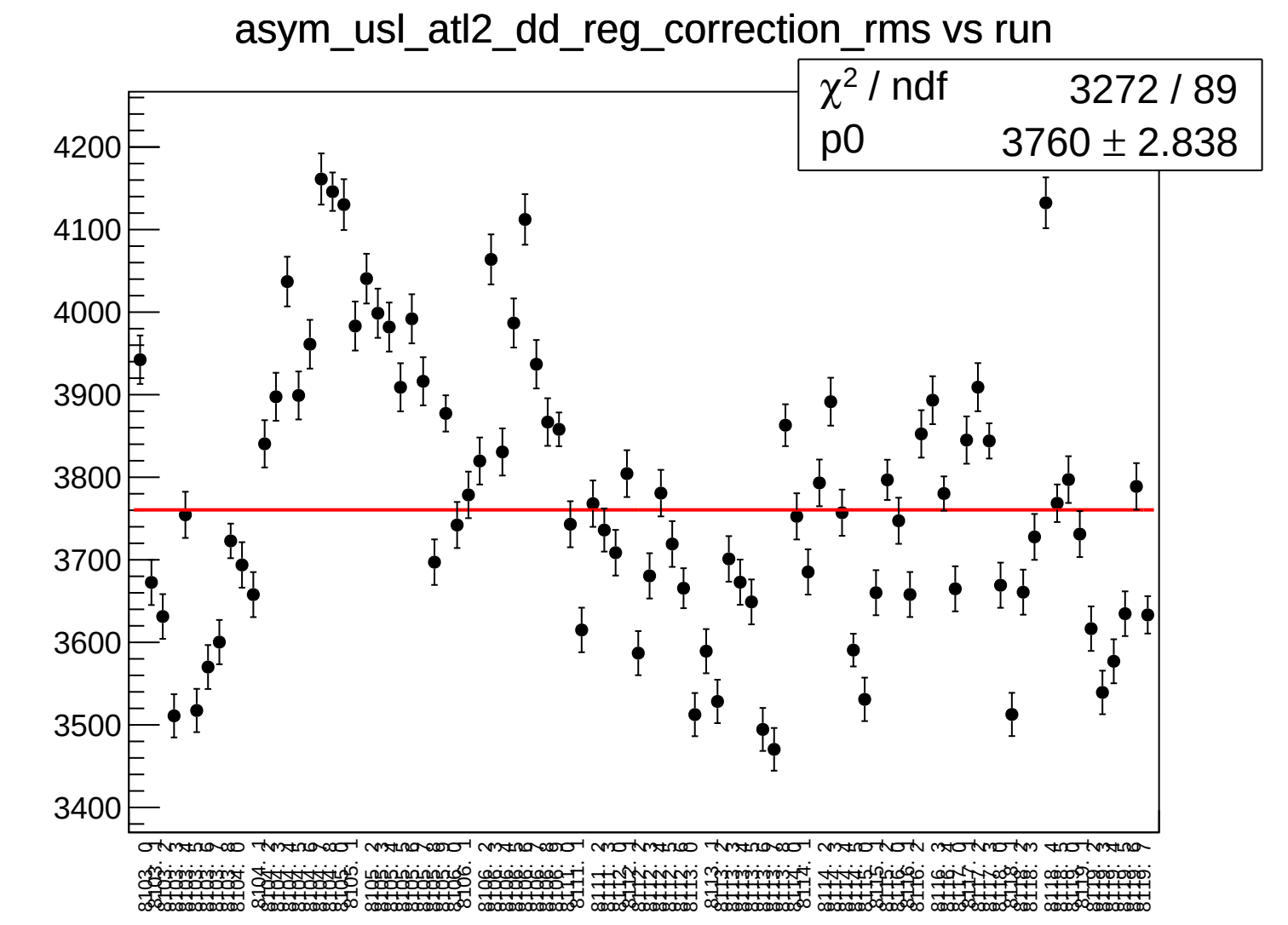

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 97.36 / 89
p0 157.9 ± 911.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 182.2
Std Dev 0
2
1
0
−1
−2

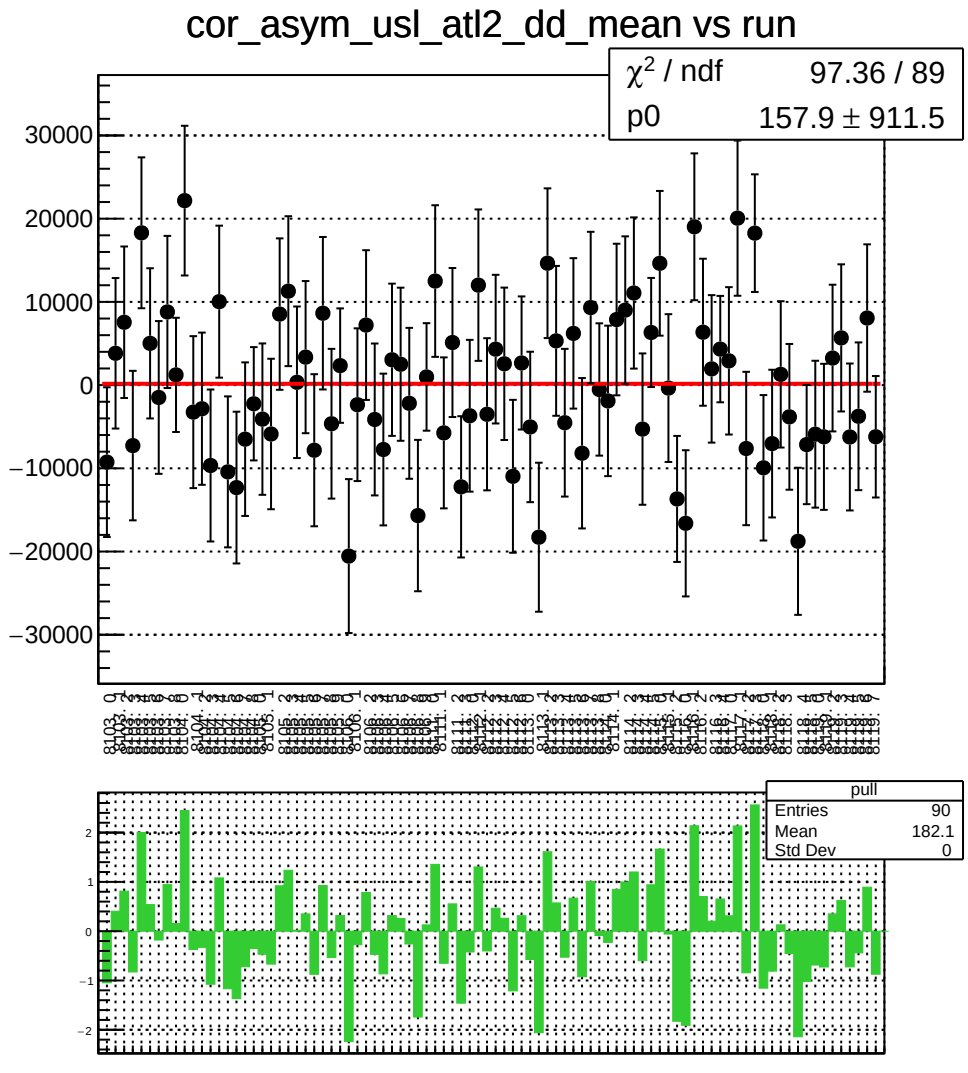

pull1D
Entries 90
Mean −0.005796
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

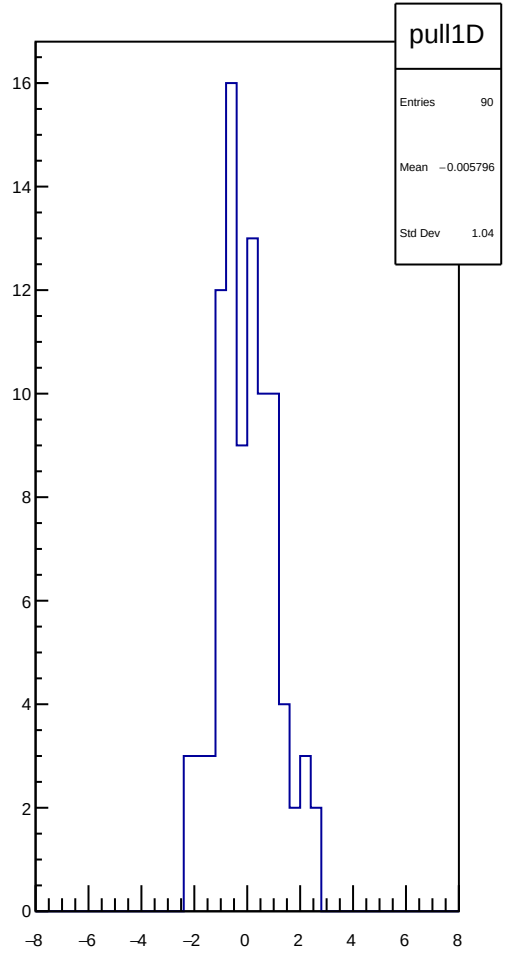

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 535.4 / 89
p0 854.6 ± 0.6445
900
880
860
840
820

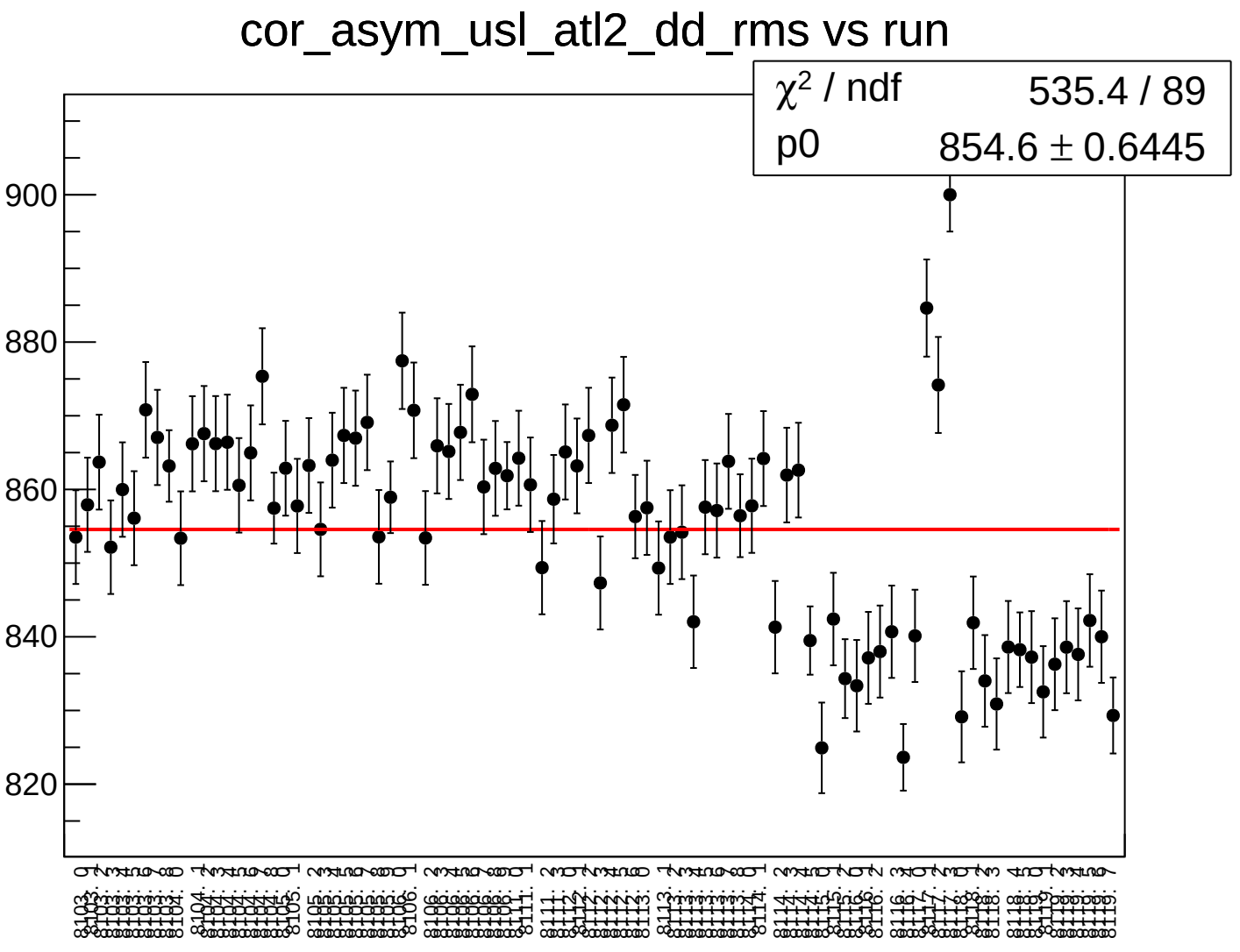

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 89.39 / 89
p0 −4619 ± 4014
×10³
pull
Entries 90
Mean 3457
Std Dev 0

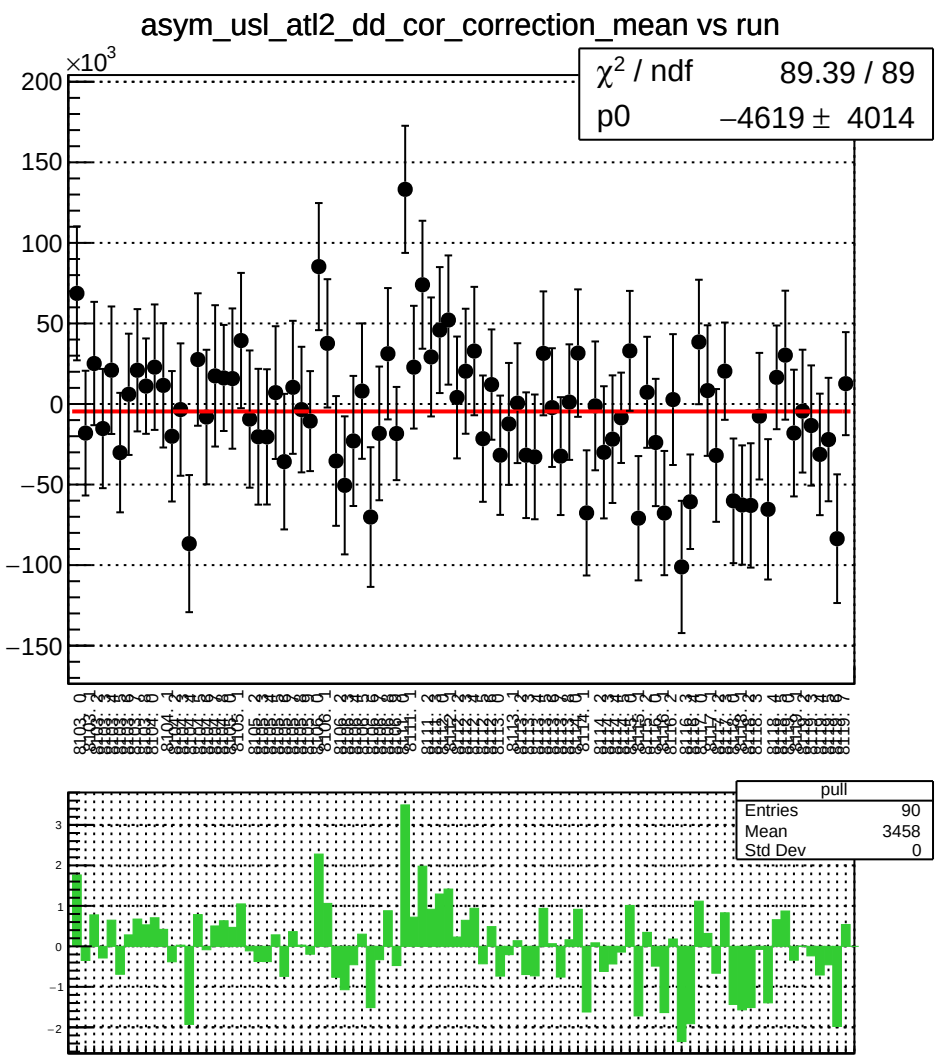

pull1D
Entries 90
Mean −0.002157
Std Dev 0.9966

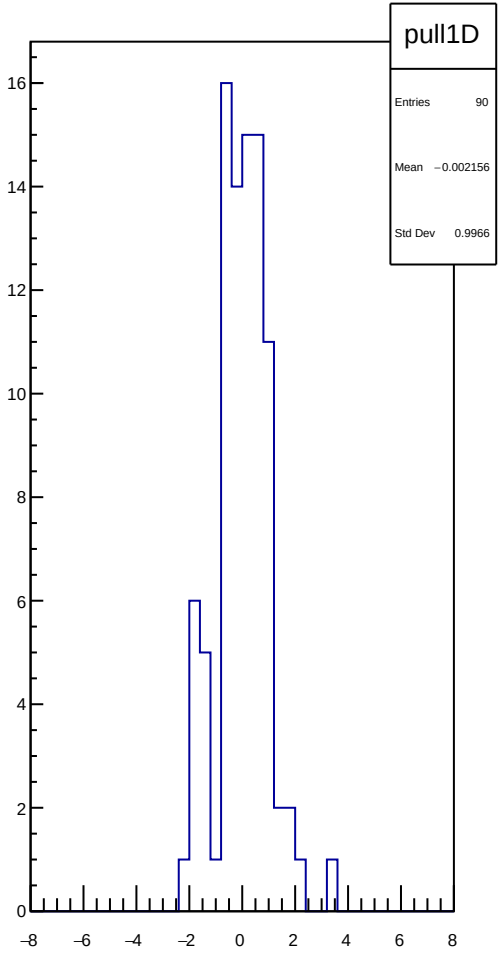

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 3272 / 89
p0 3760 ± 2.838
4200
4100
4000
3900
3800
3700
3600
3500
3400

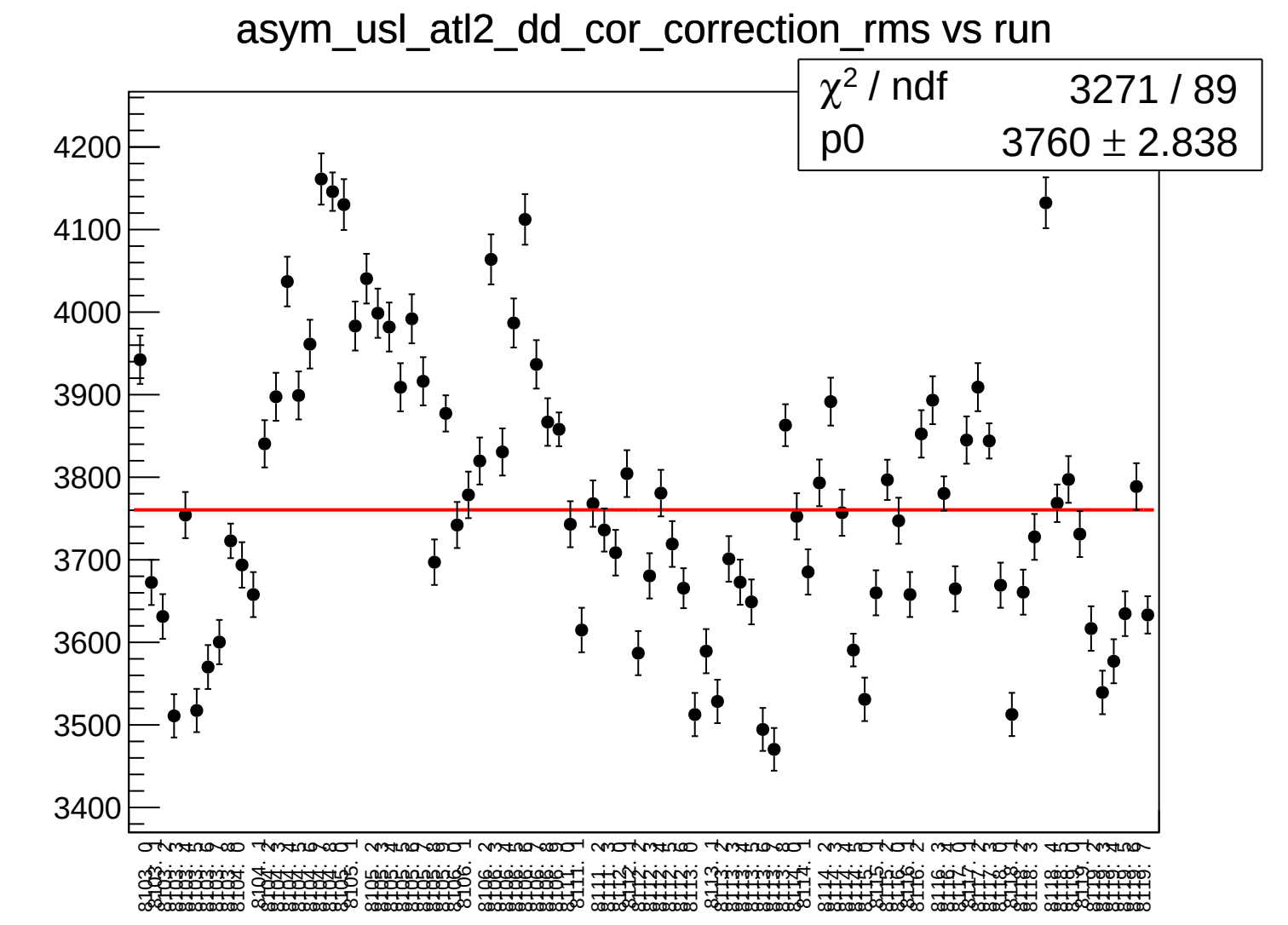

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 97.36 / 89
p0 157.9 ± 911.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 182.1
Std Dev 0
2
1
0
−1
−2

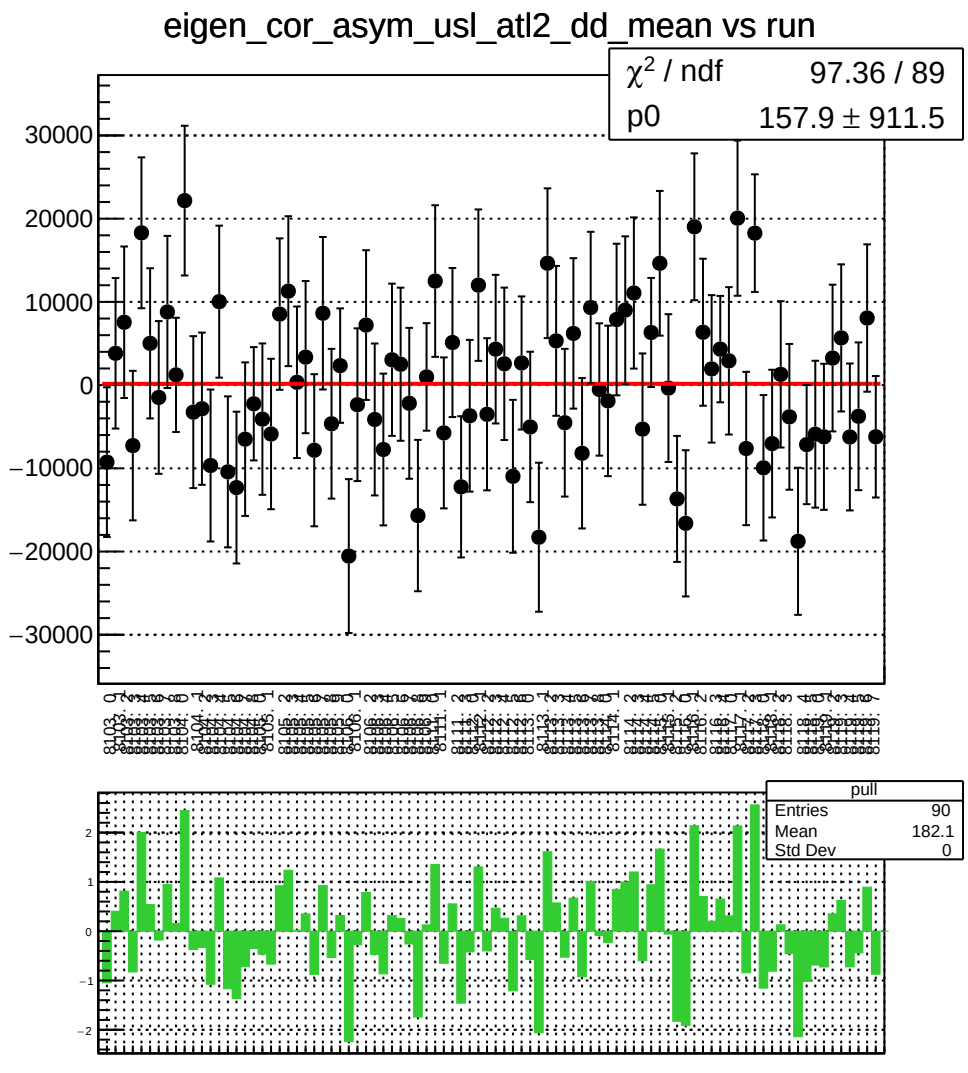

pull1D
Entries 90
Mean −0.005796
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

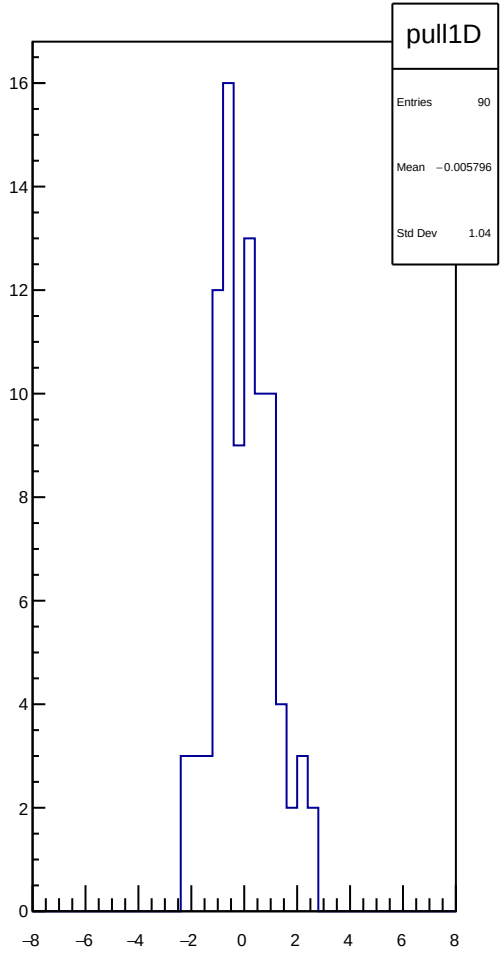

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 535.4 / 89
p0 854.6 ± 0.6445
900
880
860
840
820

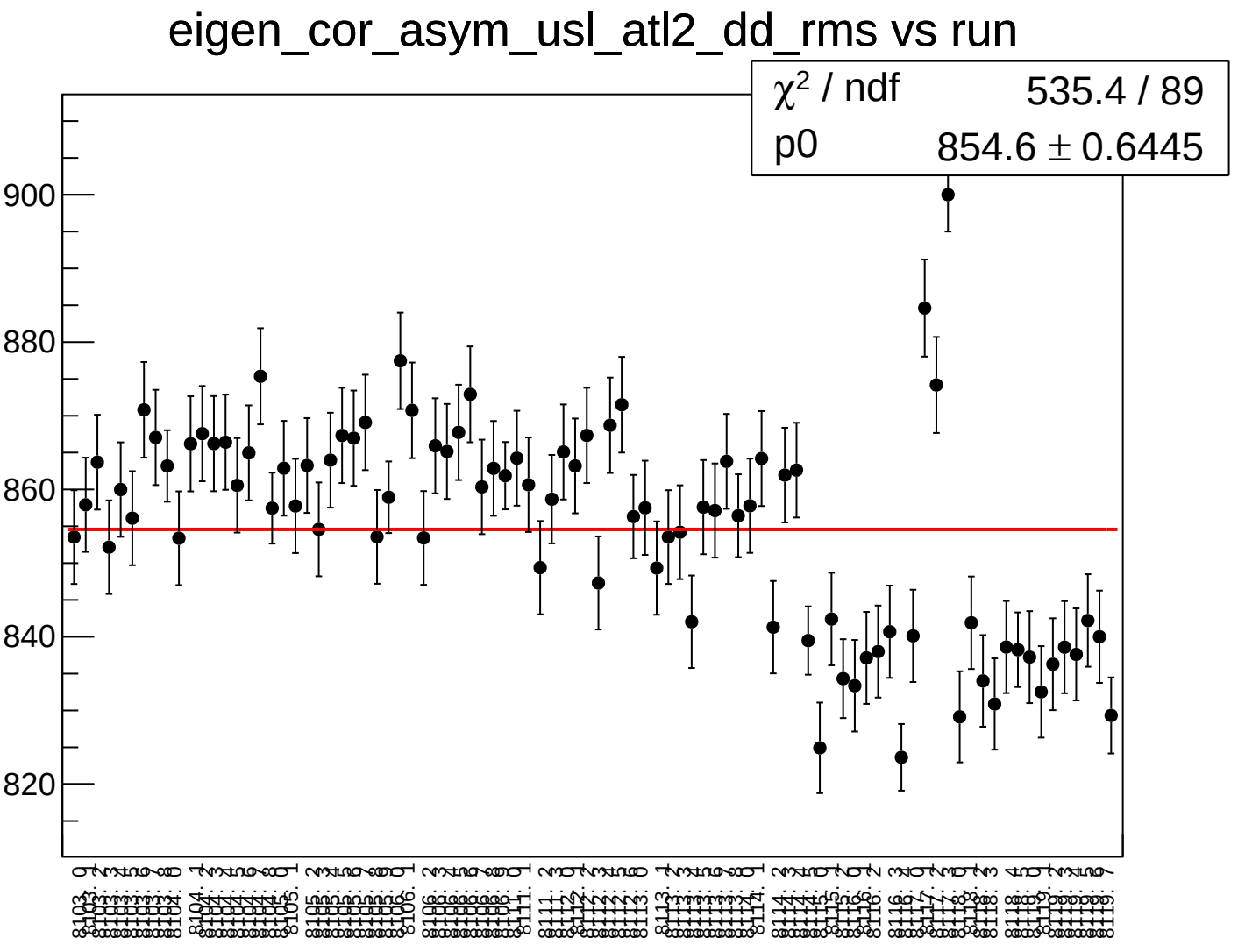

asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 89.39 / 89
p0 −4619 ± 4014
×10³
pull
Entries 90
Mean 3458
Std Dev 0

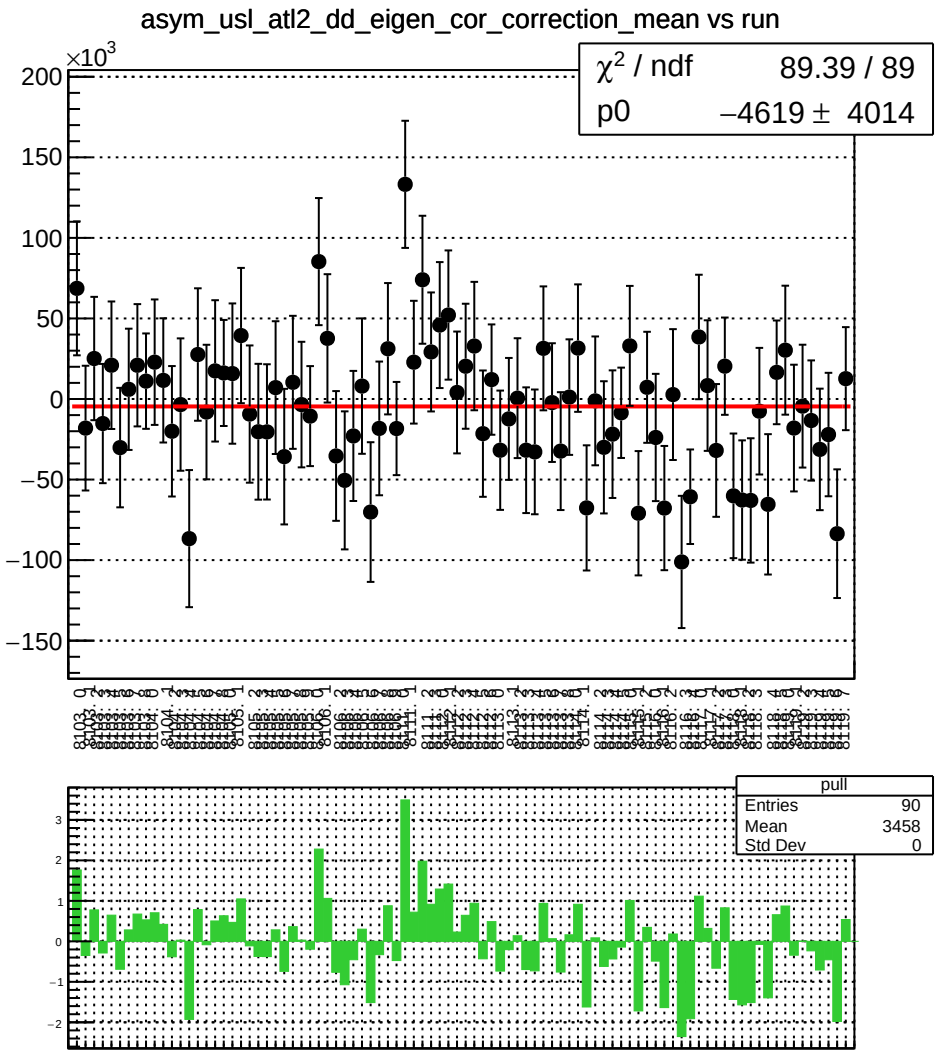

pull1D
Entries 90
Mean −0.002156
Std Dev 0.9966

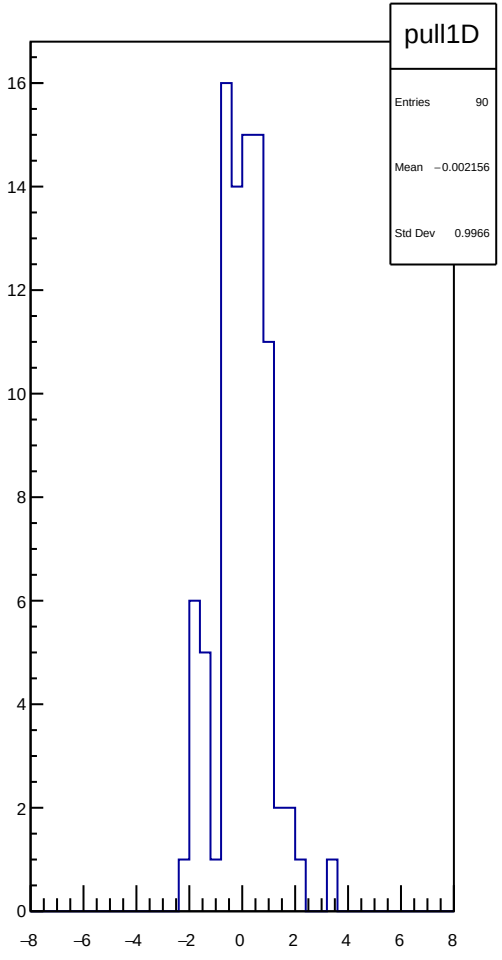

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 3271 / 89
p0 3760 ± 2.838
4200
4100
4000
3900
3800
3700
3600
3500
3400

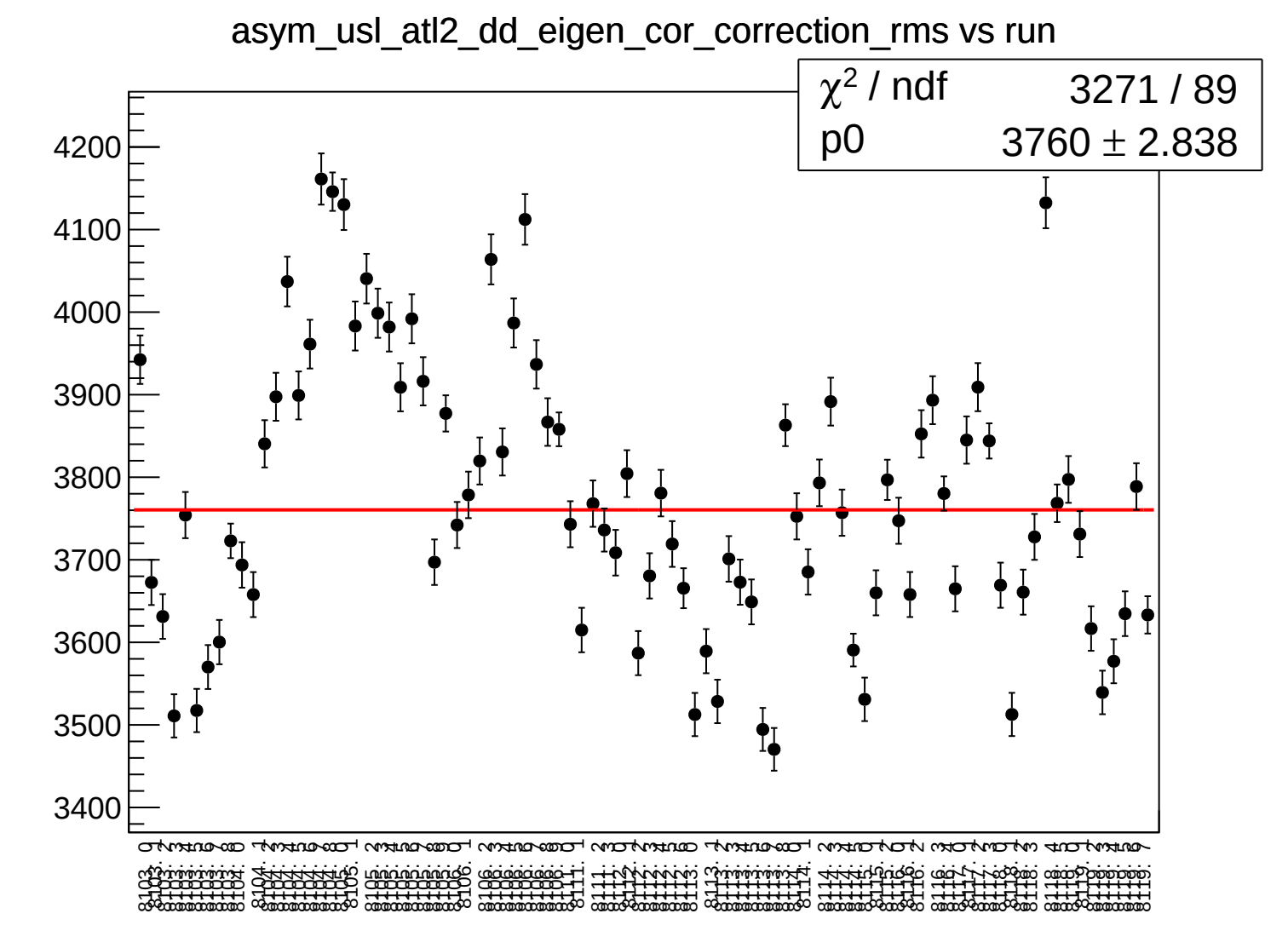

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 97.36 / 89
p0 157.9 ± 911.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 182.1
Std Dev 0
2
1
0
−1
−2

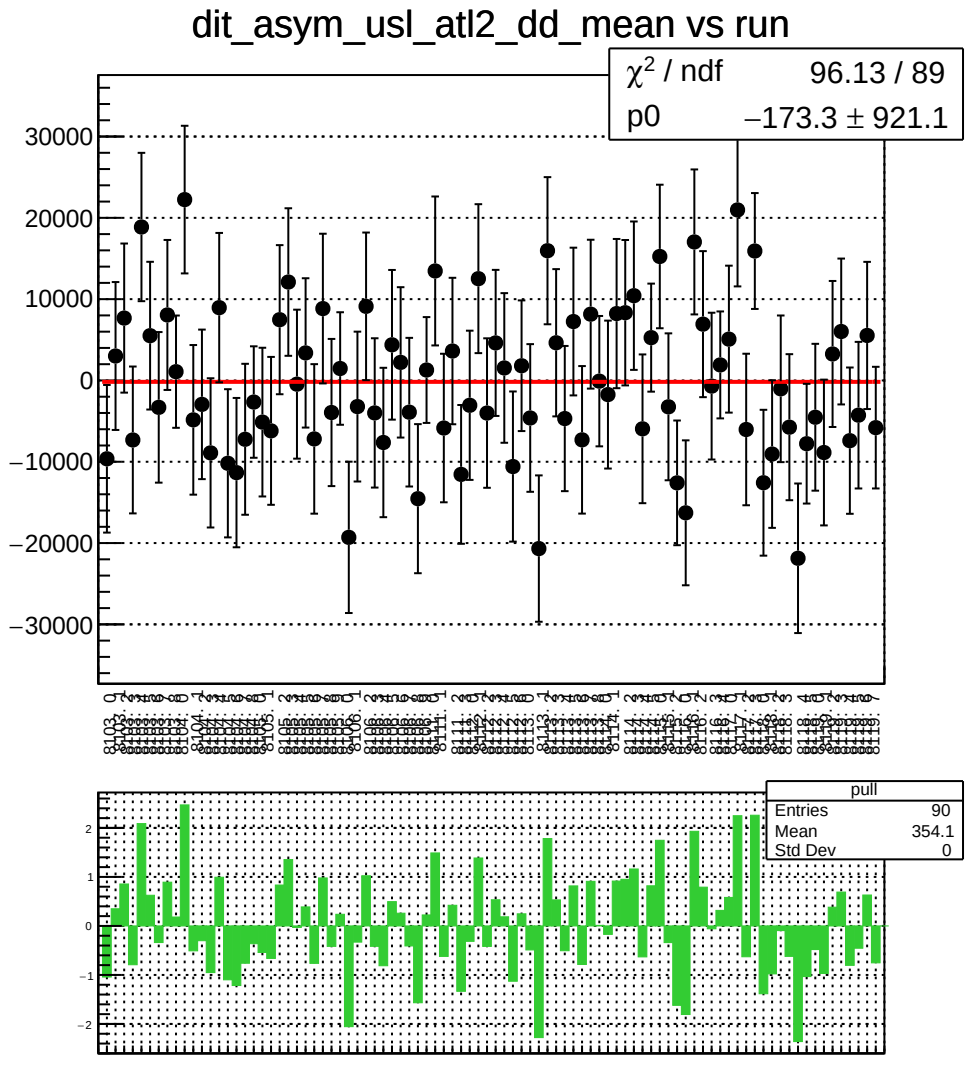

pull1D
Entries 90
Mean −0.005796
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

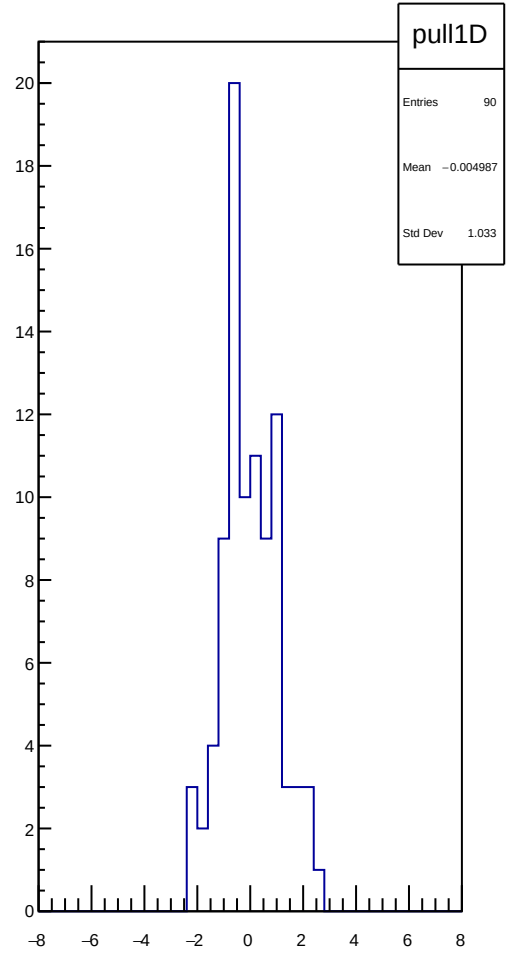

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 535.4 / 89
p0 854.6 ± 0.6445
900
880
860
840
820

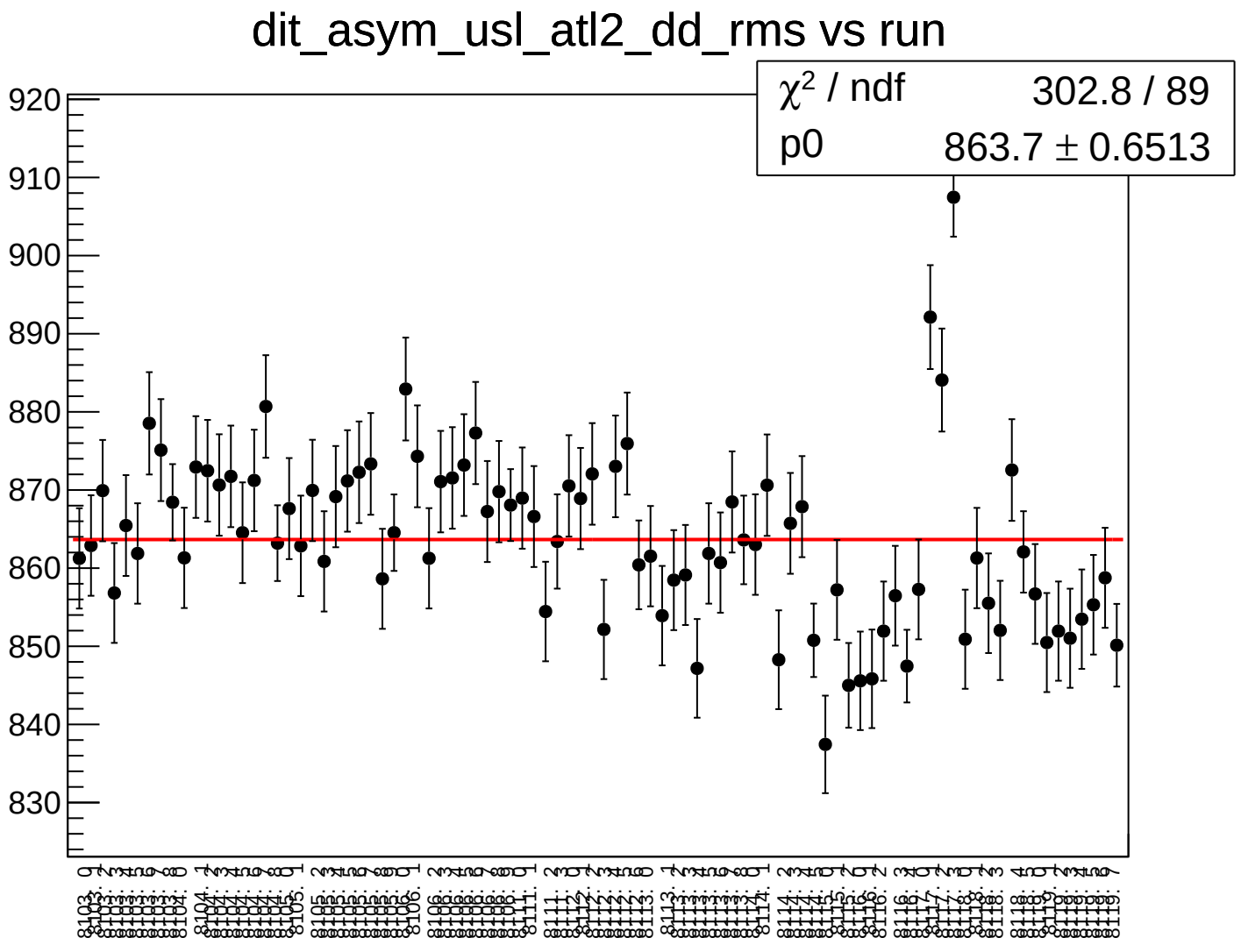

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.39 / 89
p0 −4619 ± 4014
×10³
pull
Entries 90
Mean 3458
Std Dev 0

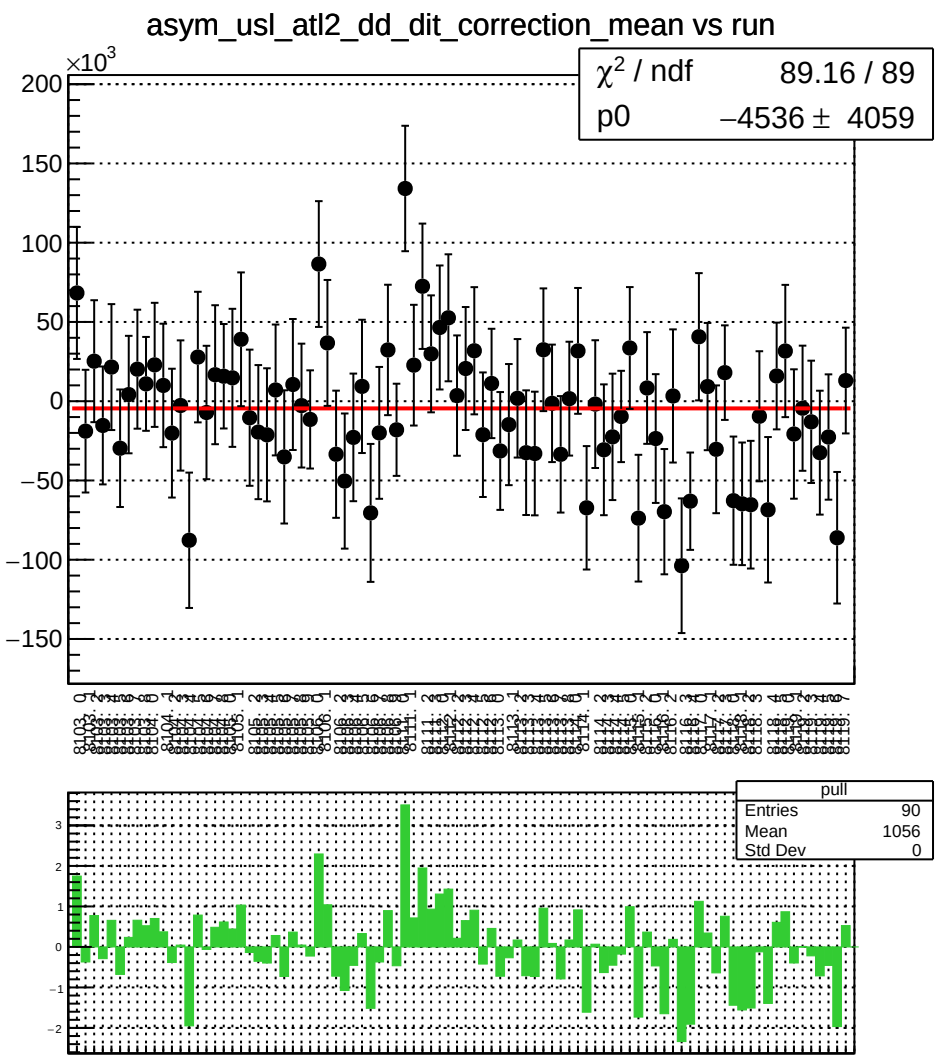

pull1D
Entries 90
Mean −0.002156
Std Dev 0.9966

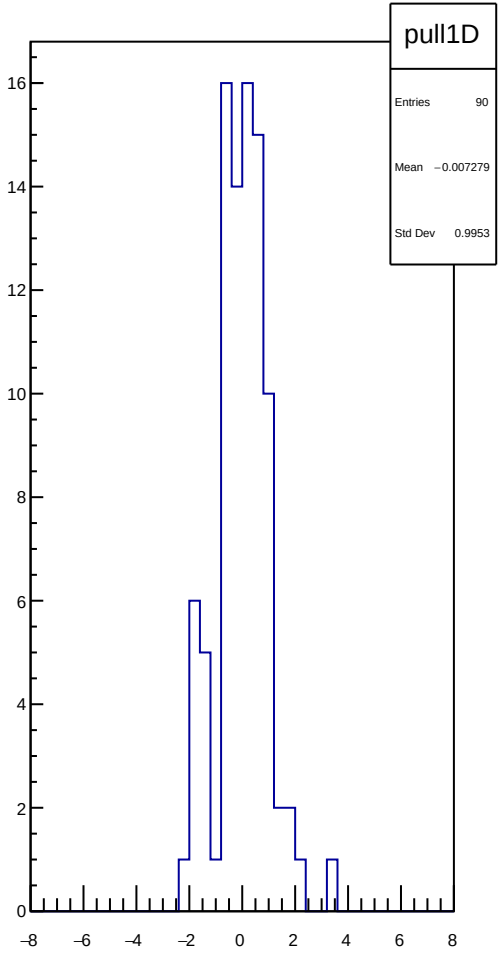

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3271 / 89
p0 3760 ± 2.838
4200
4100
4000
3900
3800
3700
3600
3500
3400

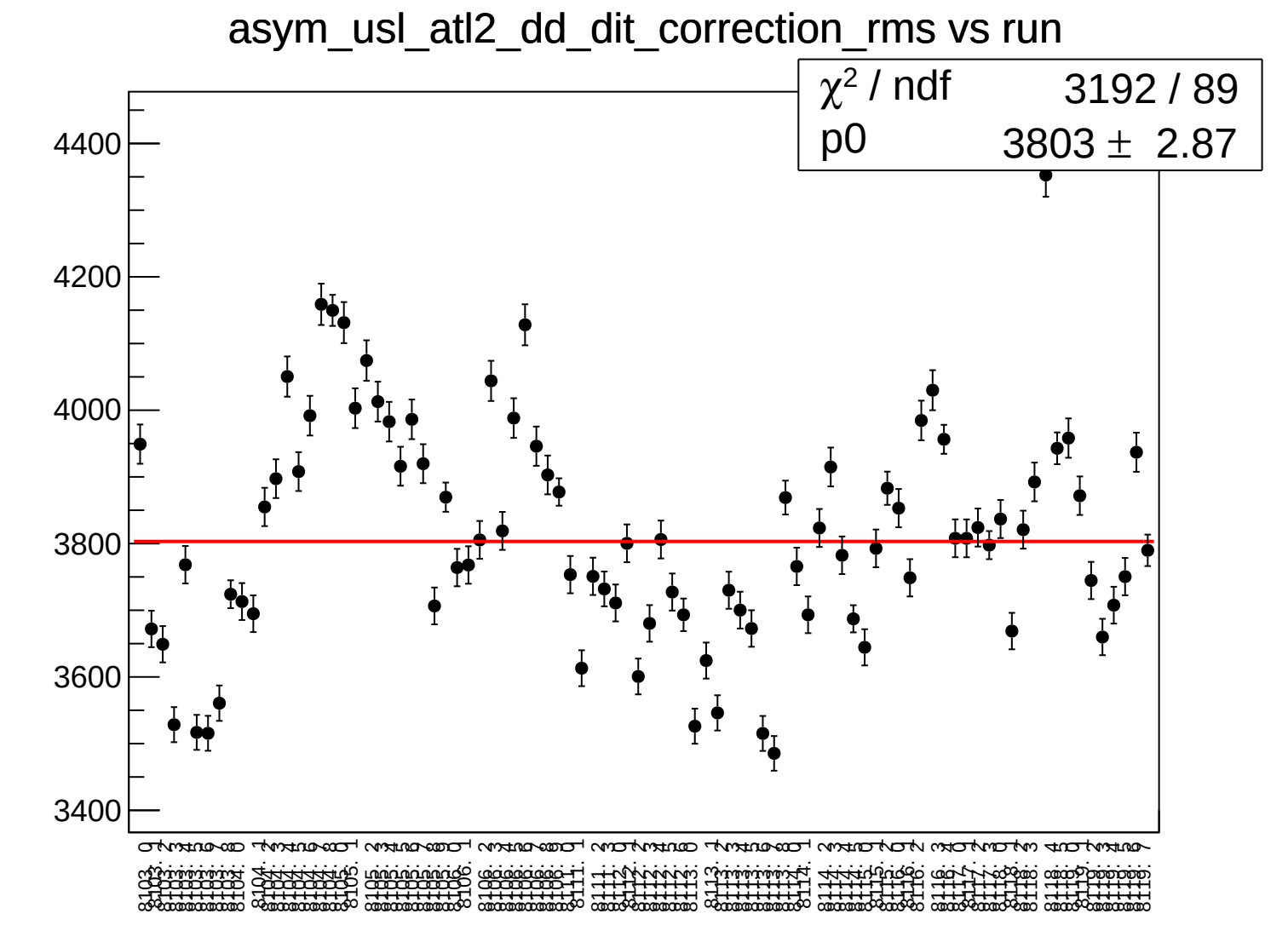

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 96.13 / 89
p0 −173.3 ± 921.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 354.1
Std Dev 0
2
1
0
−1
−2

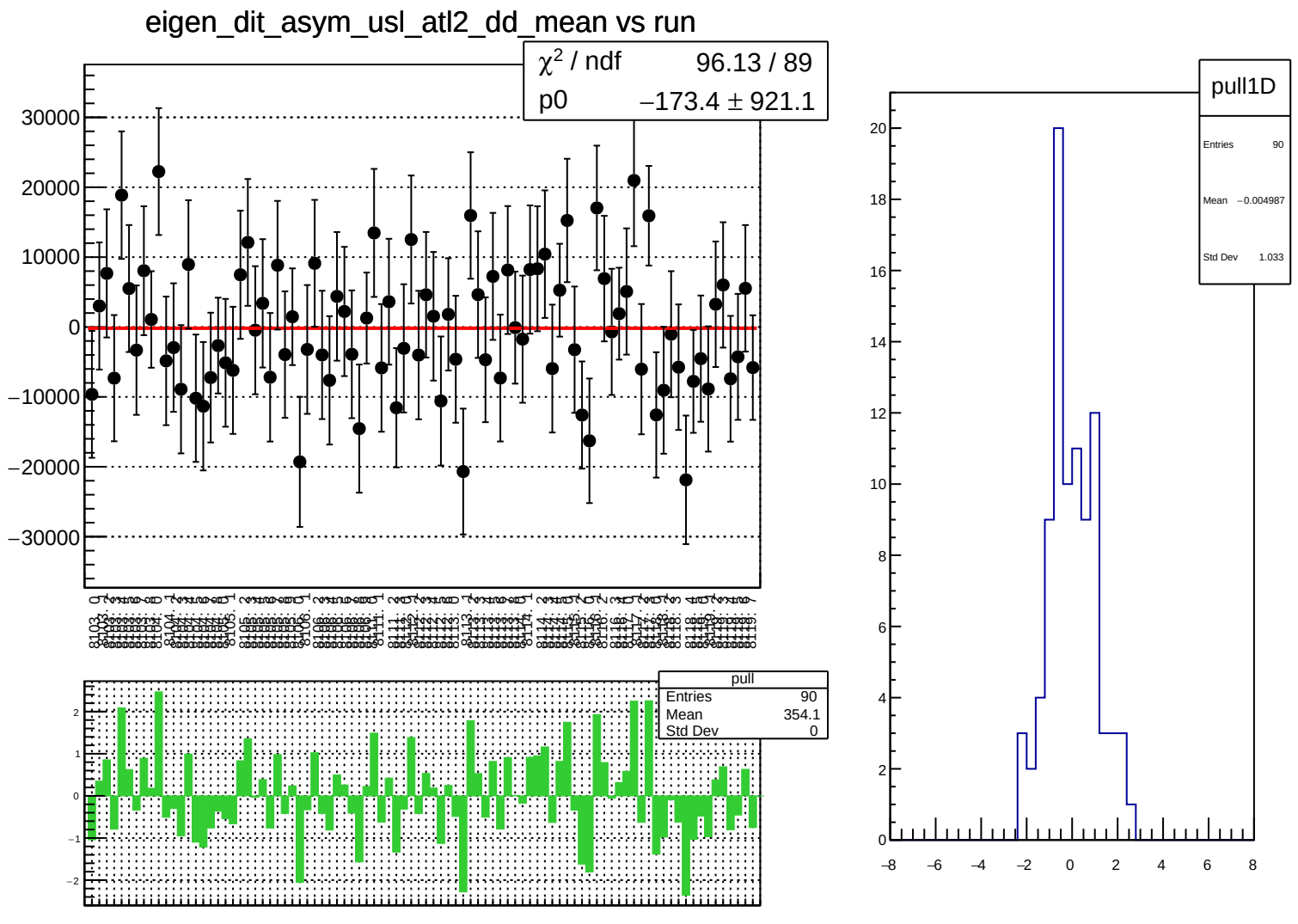

pull1D
Entries 90
Mean −0.004987
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

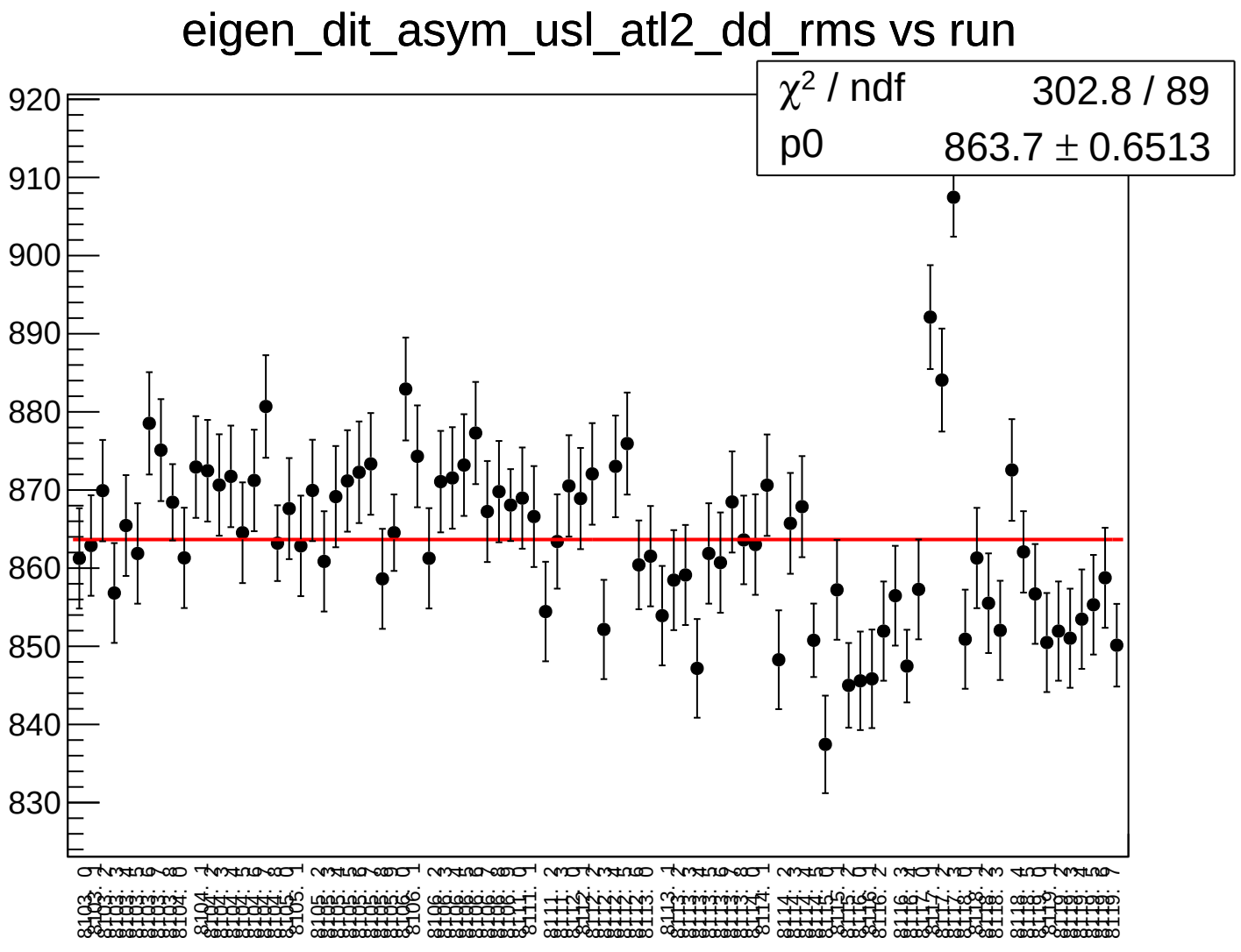

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 302.8 / 89
p0 863.7 ± 0.6513
920
910
900
890
880
870
860
850
840
830

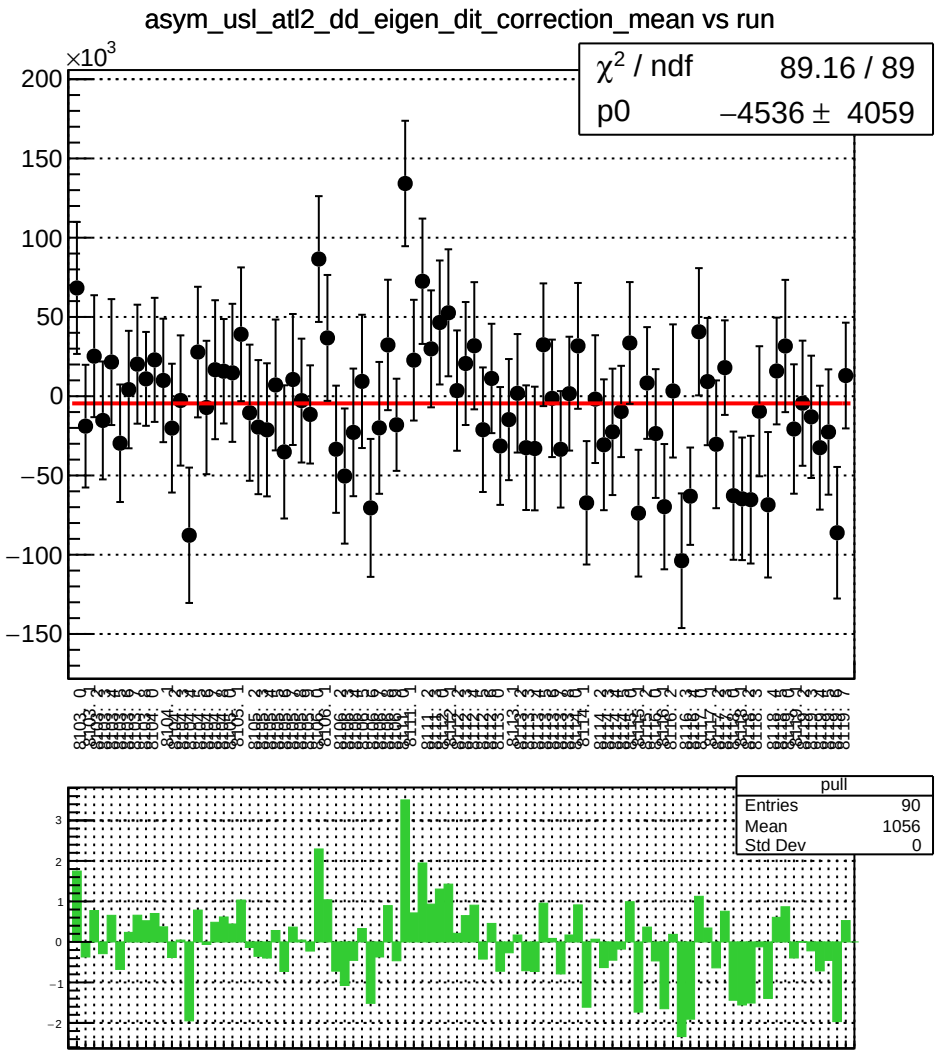

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.16 / 89
p0 −4536 ± 4059
200
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 1056
Std Dev 0
3
2
1
0
−1
−2

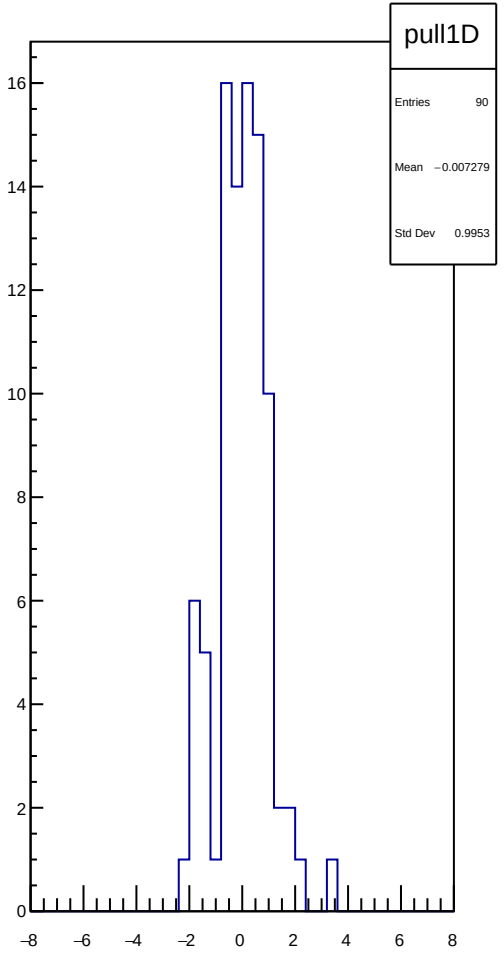

pull1D
Entries 90
Mean −0.007279
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

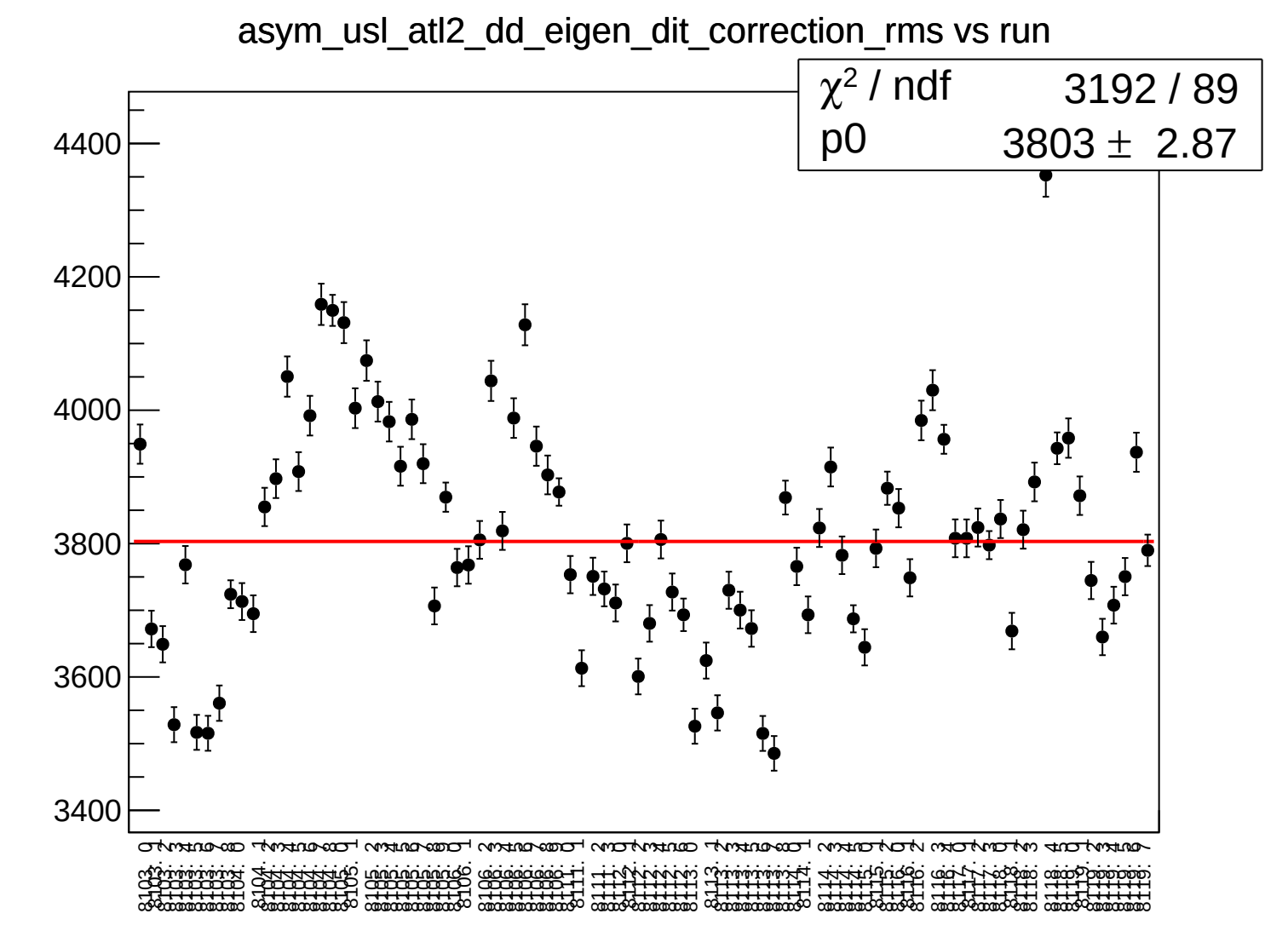

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 3192 / 89
p0 3803 ± 2.87
4400
4200
4000
3800
3600
3400

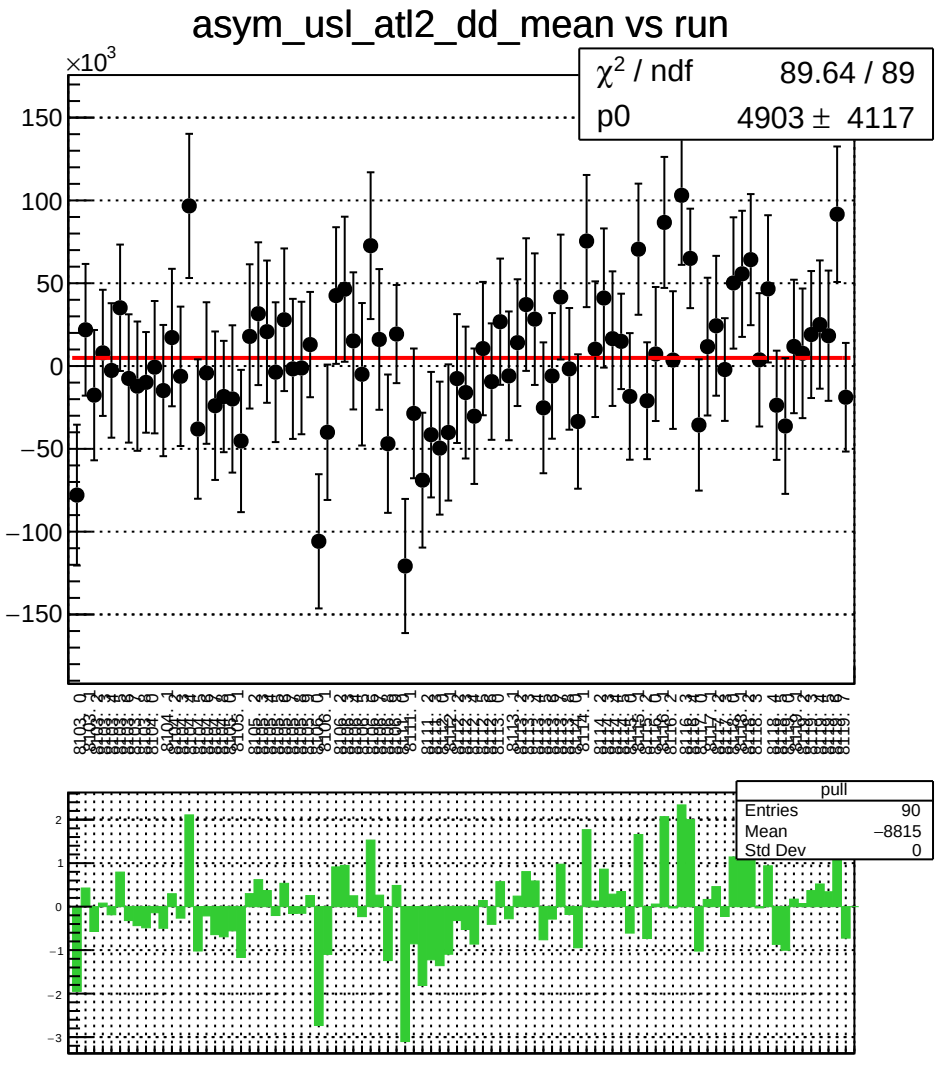

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 96.13 / 89
p0 −173.4 ± 921.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 354.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004987
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

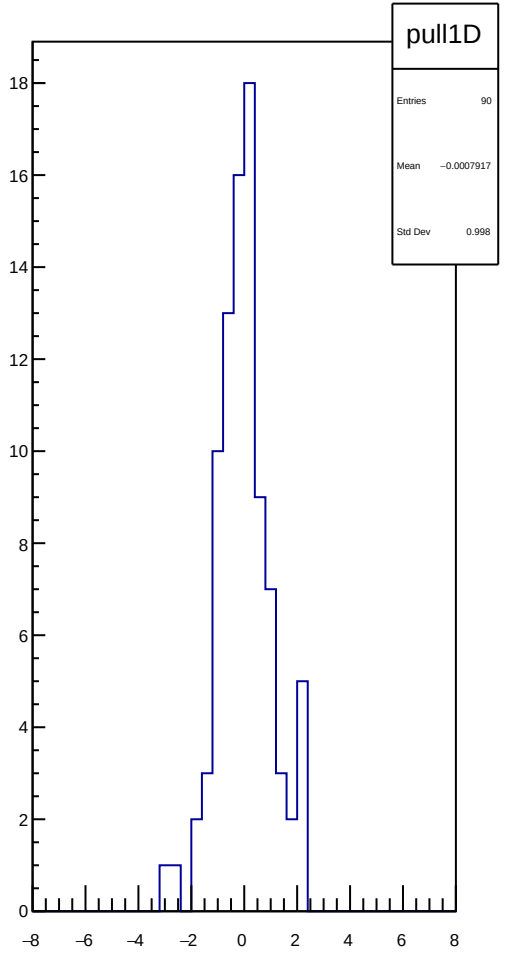

eigen_dit_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 302.8 / 89
p0 863.7 ± 0.6513
920
910
900
890
880
870
860
850
840
830

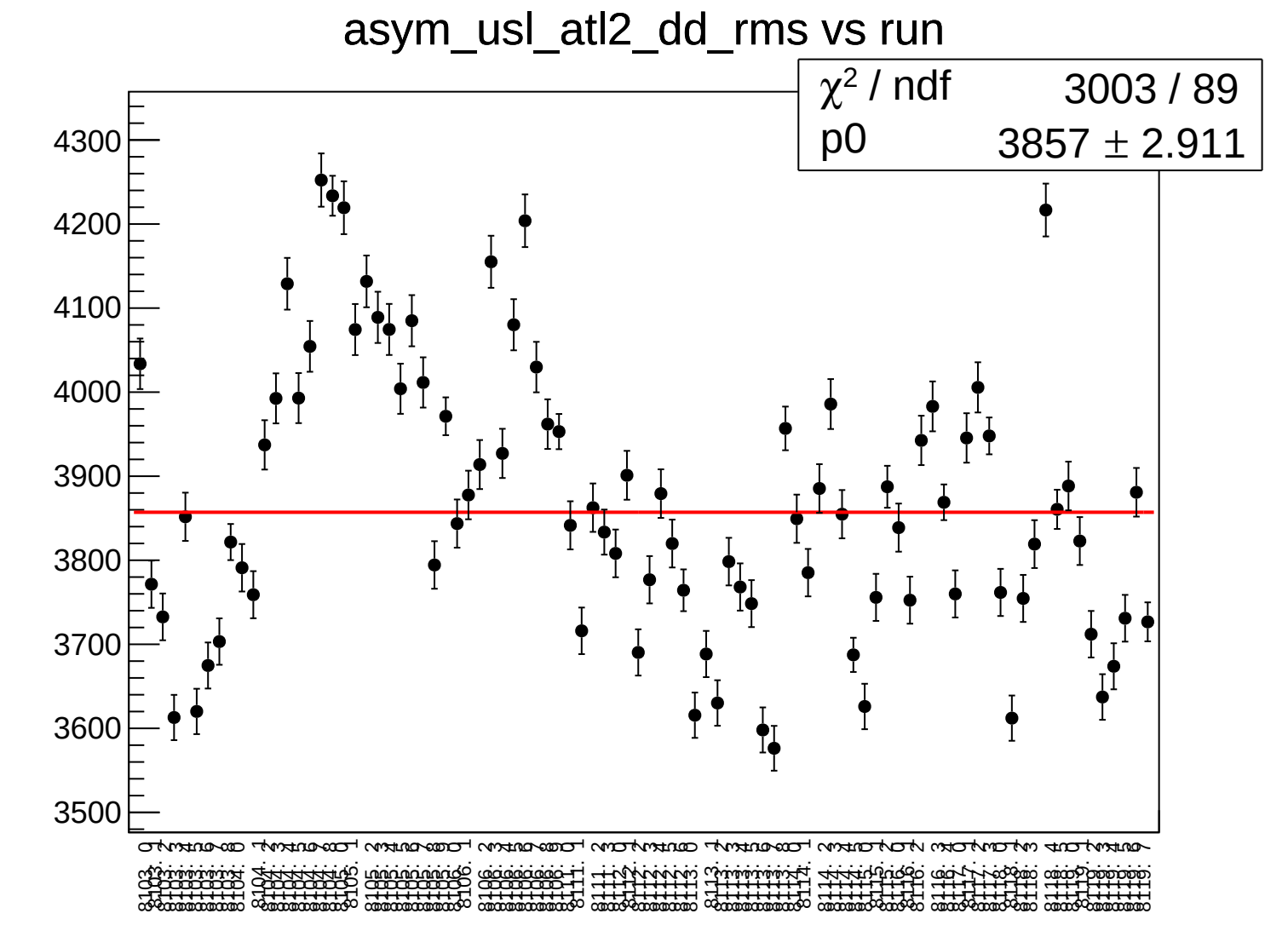

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.16 / 89
p0 −4536 ± 4059
pull
Entries 90
Mean 1056
Std Dev 0

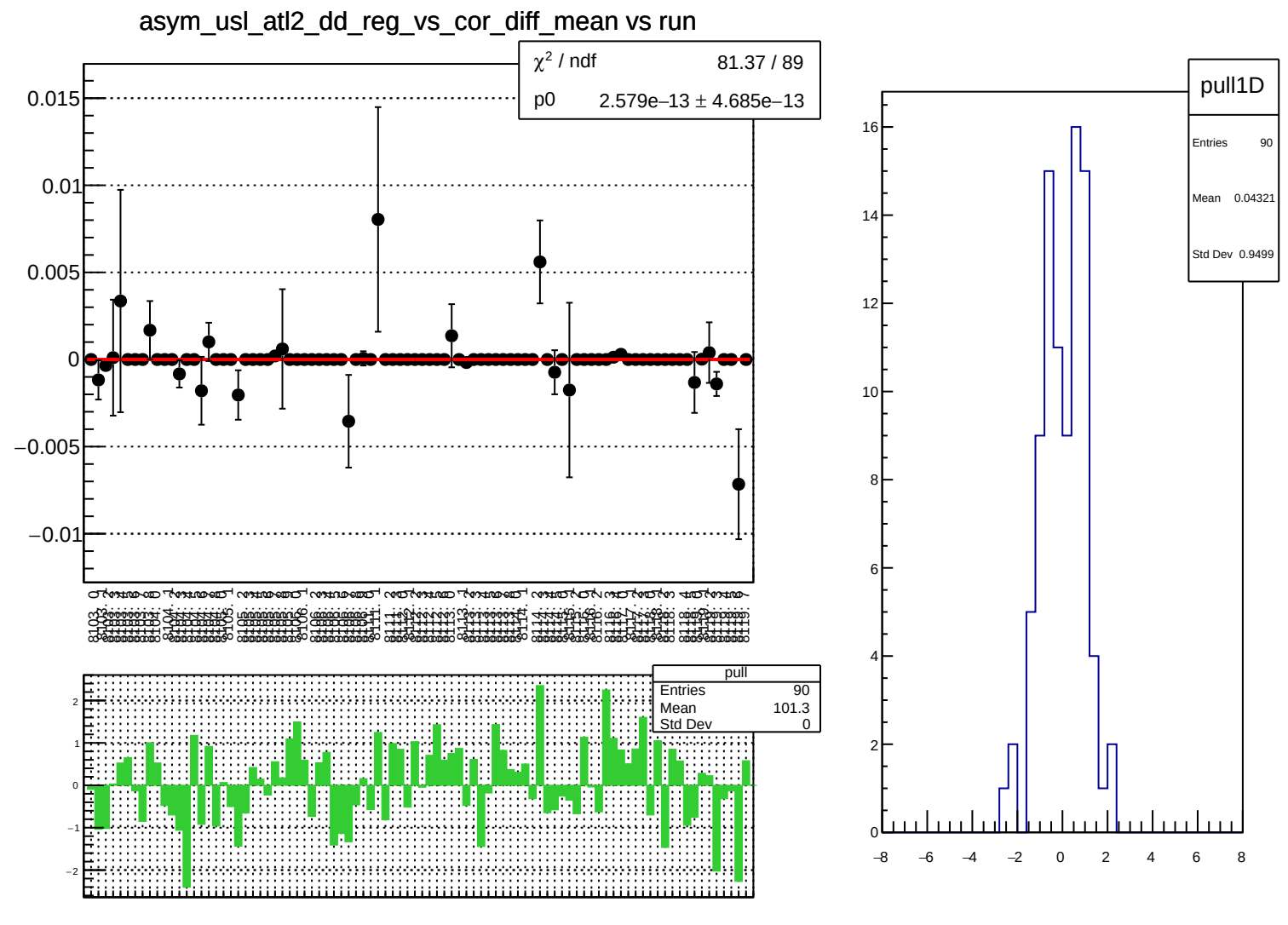

pull1D
Entries 90
Mean −0.007279
Std Dev 0.9953

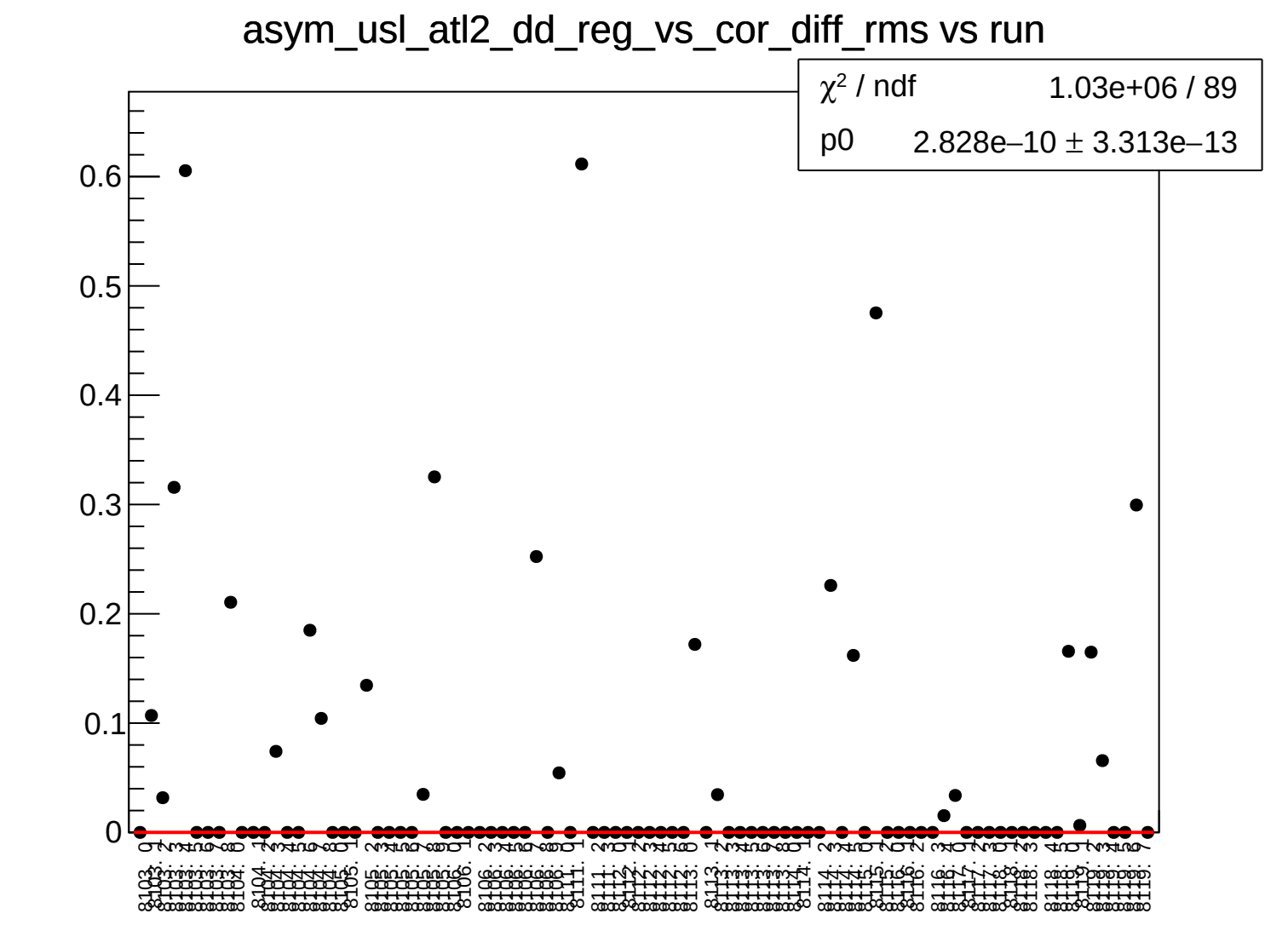

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3192 / 89
p0 3803 ± 2.87
4400
4200
4000
3800
3600
3400

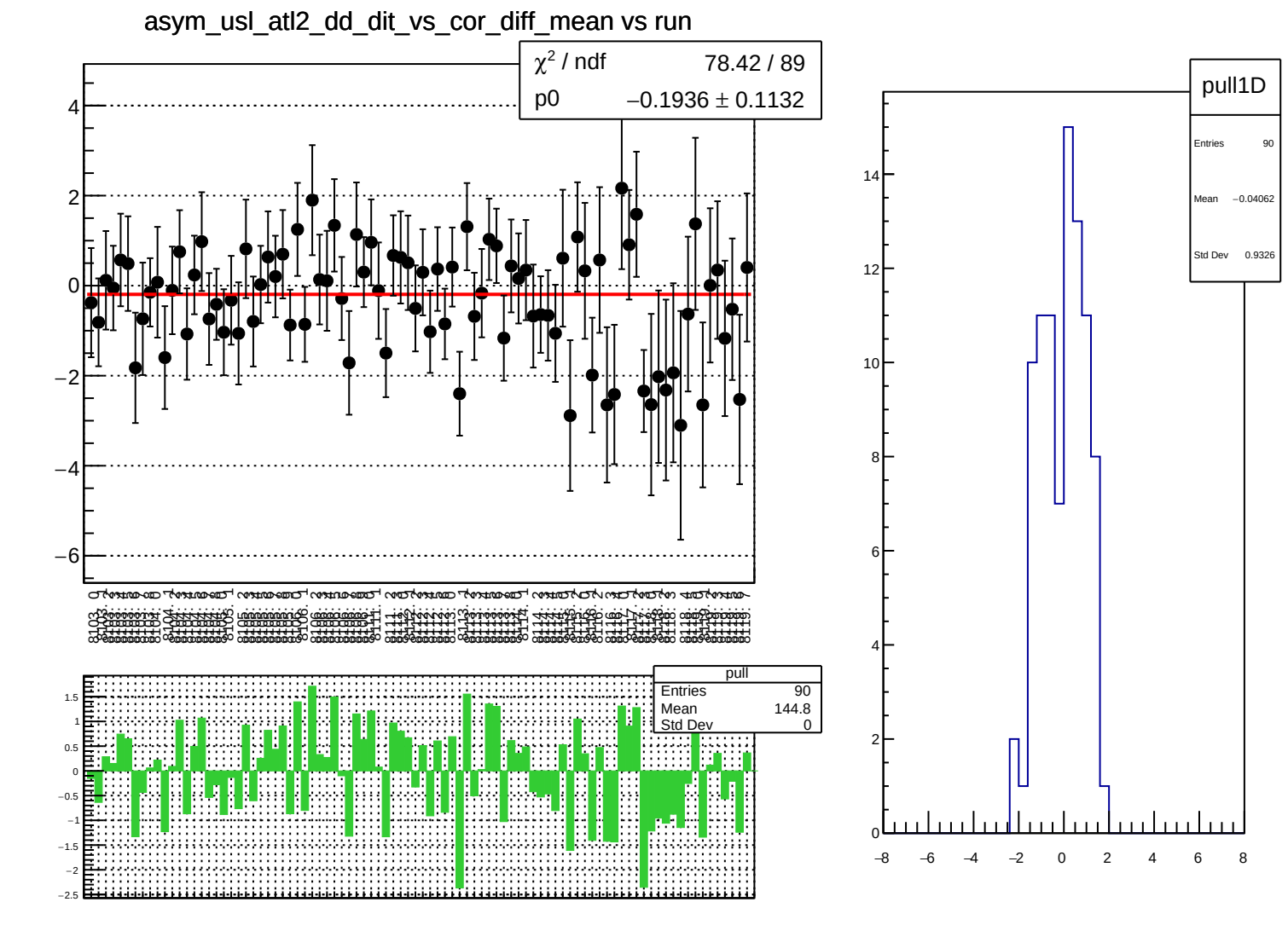

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 89.64 / 89
p0 4903 ± 4117
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −8815
Std Dev 0
2
1
0
−1
−2
−3

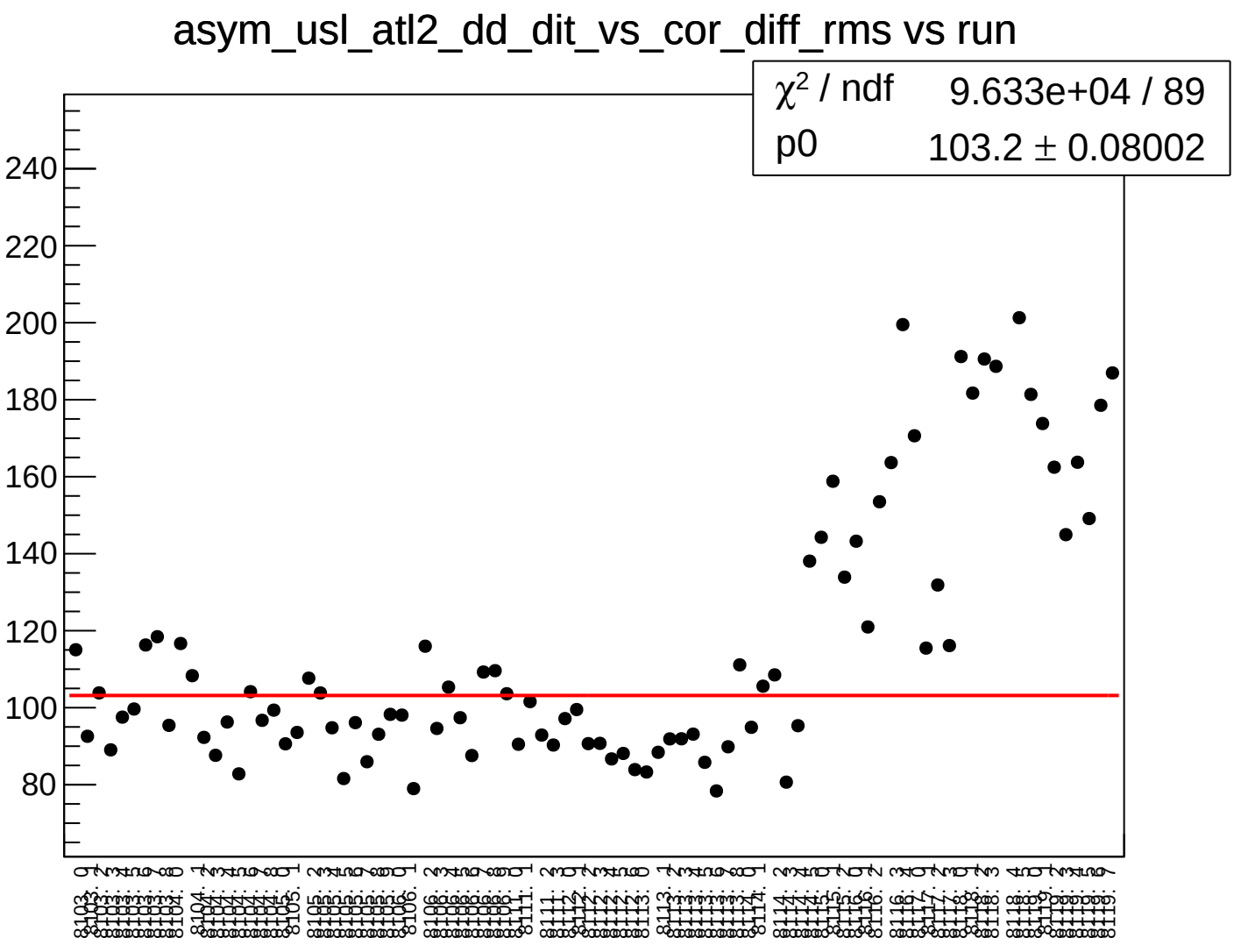

pull1D
Entries 90
Mean −0.0007917
Std Dev 0.998
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

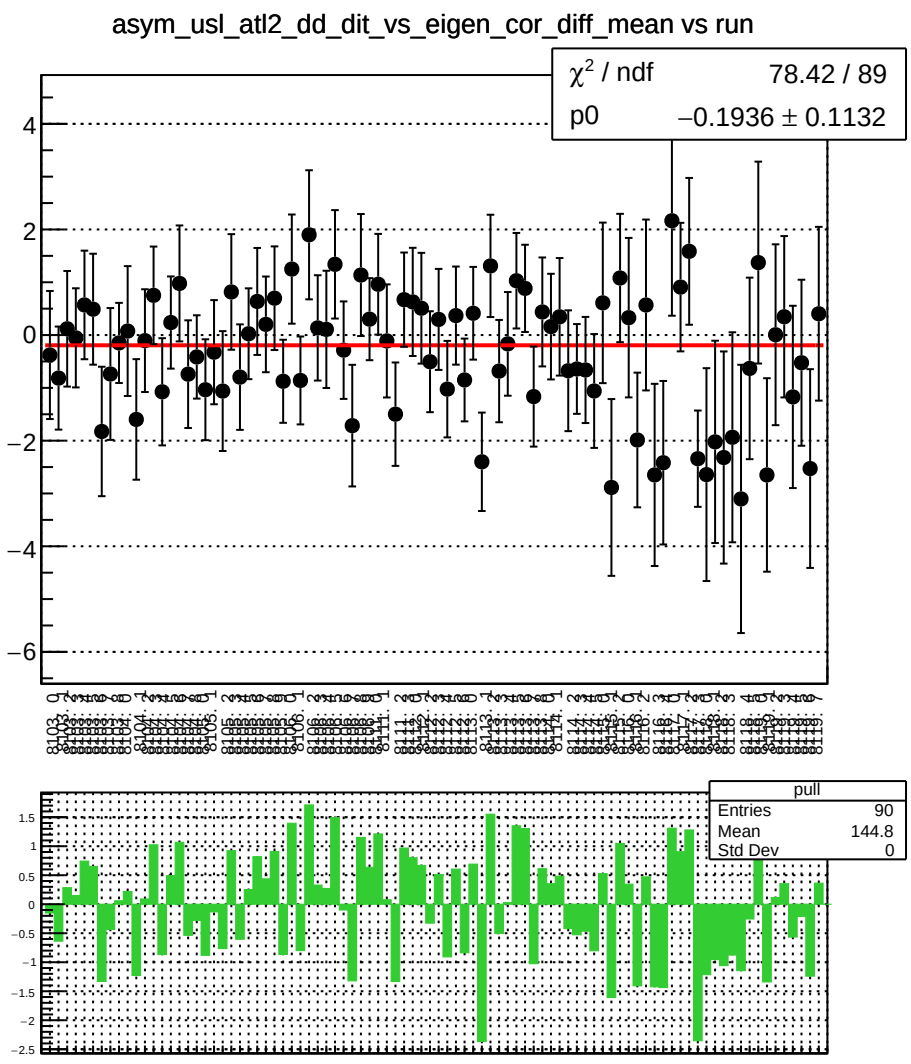

asym_usl_atl2_dd_rms vs run
χ² / ndf 3003 / 89
p0 3857 ± 2.911
4300
4200
4100
4000
3900
3800
3700
3600
3500

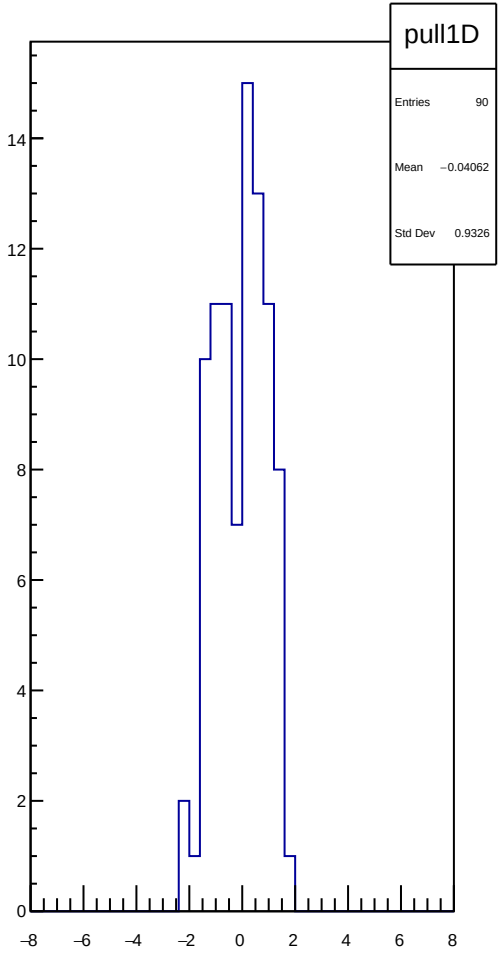

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.37 / 89
p0 2.579e−13 ± 4.685e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean 101.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.04321
Std Dev 0.9499
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

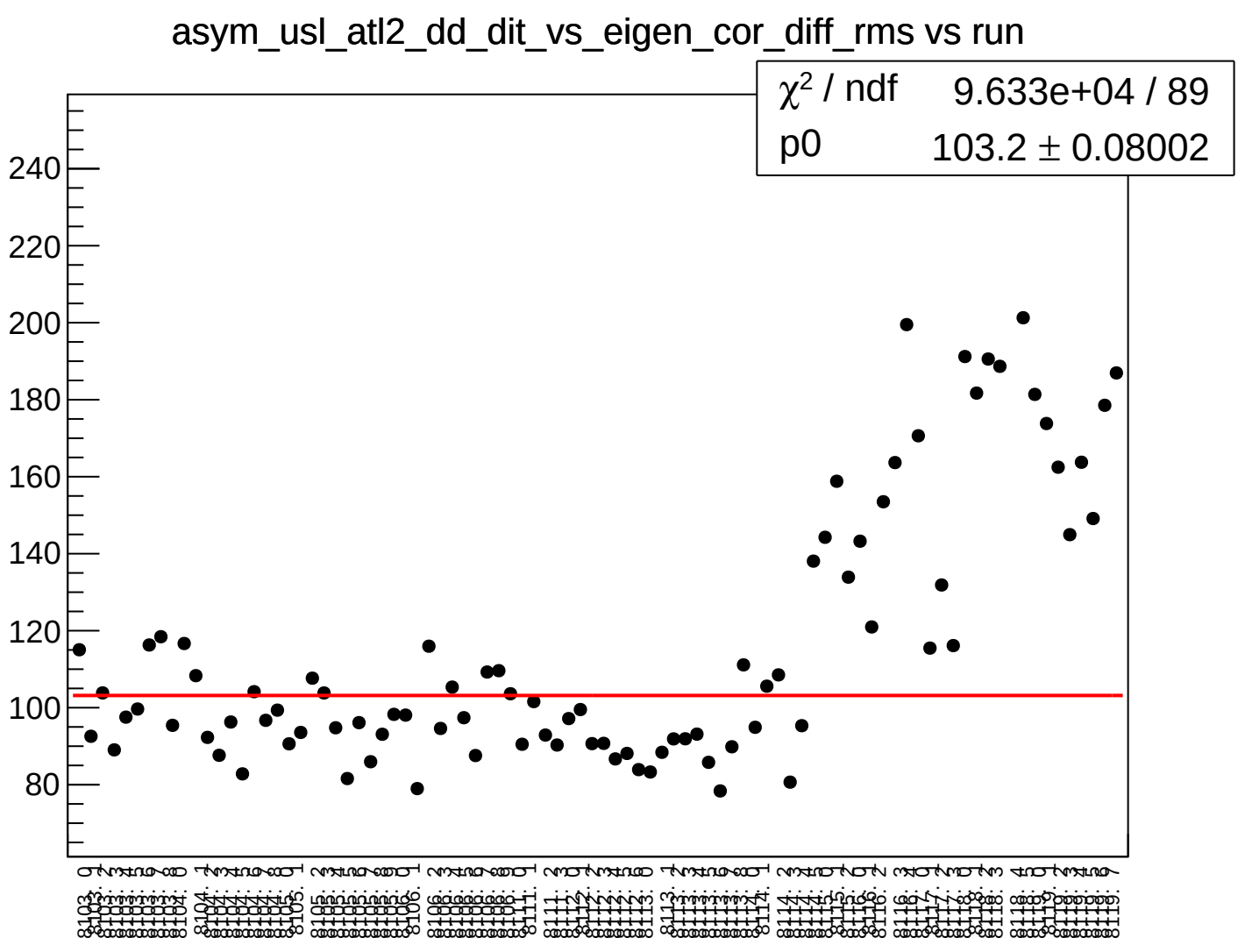

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 89
p0 2.828e−10 ± 3.313e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

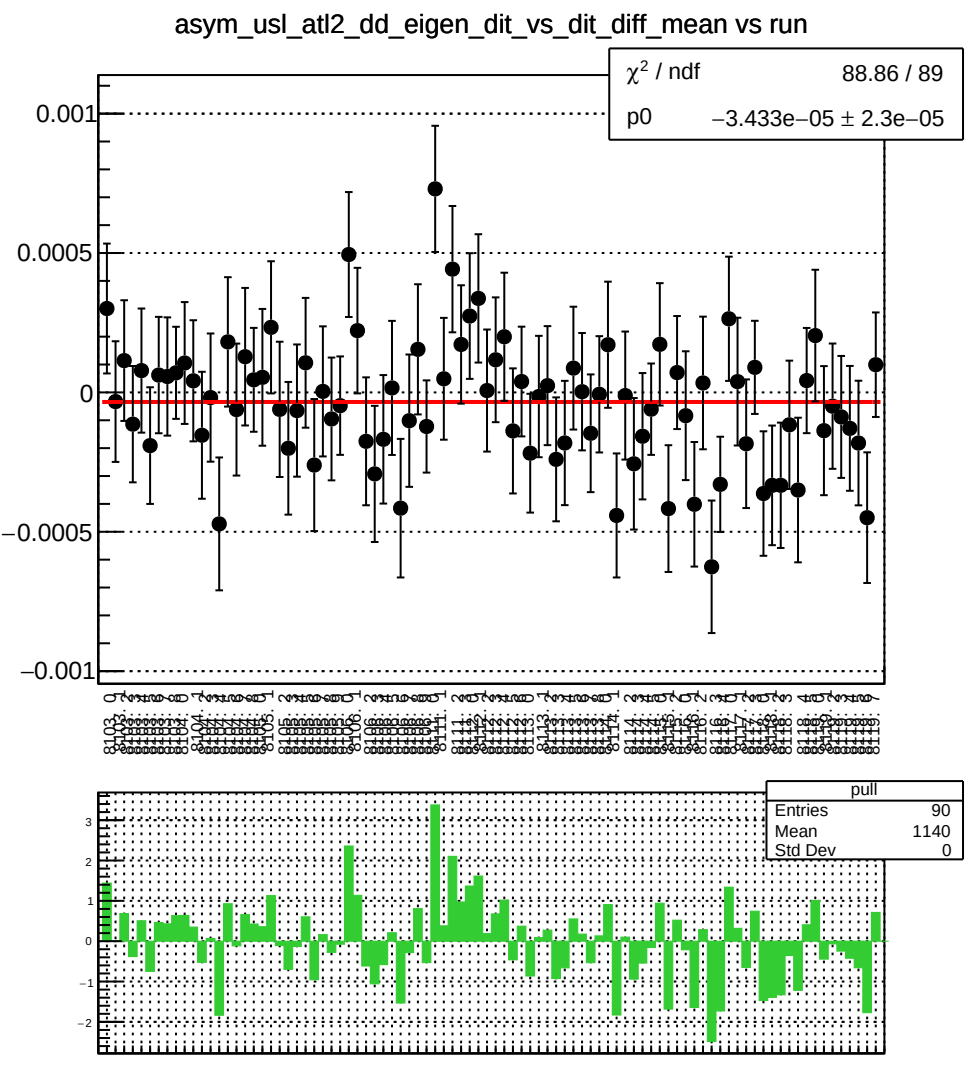

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.42 / 89
p0 −0.1936 ± 0.1132
pull
Entries 90
Mean 144.8
Std Dev 0
pull1D
Entries 90
Mean −0.04062
Std Dev 0.9326

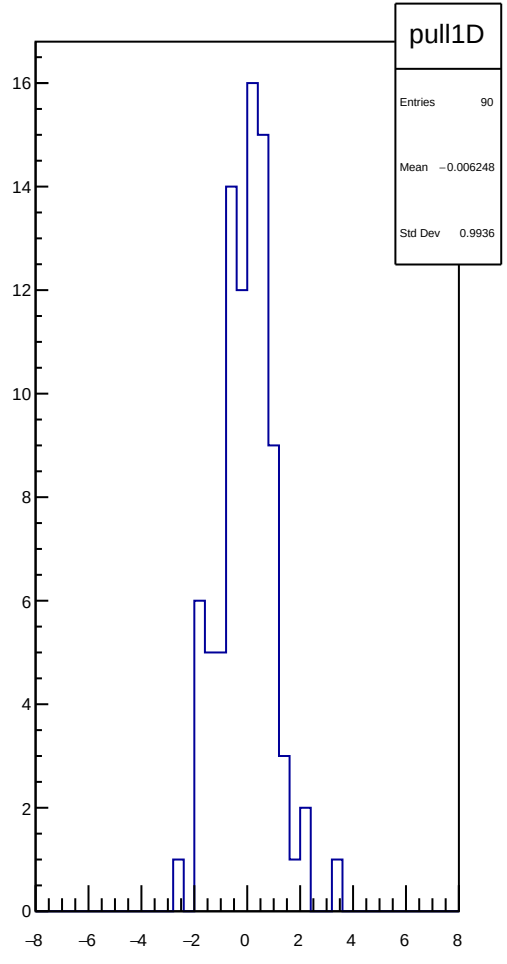

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.633e+04 / 89
p0 103.2 ± 0.08002
240
220
200
180
160
140
120
100
80

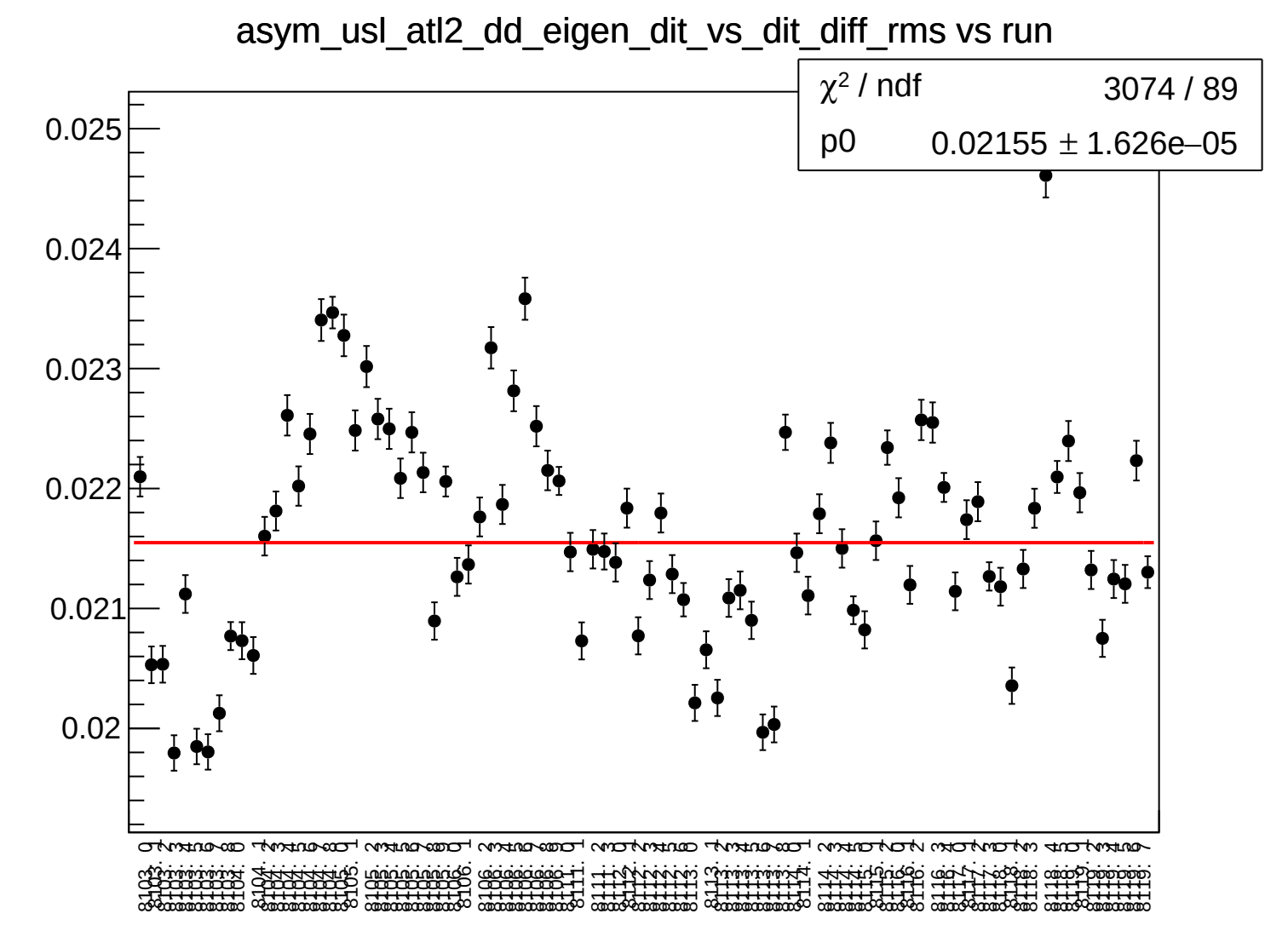

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.42 / 89
p0 −0.1936 ± 0.1132
pull
Entries 90
Mean 144.8
Std Dev 0

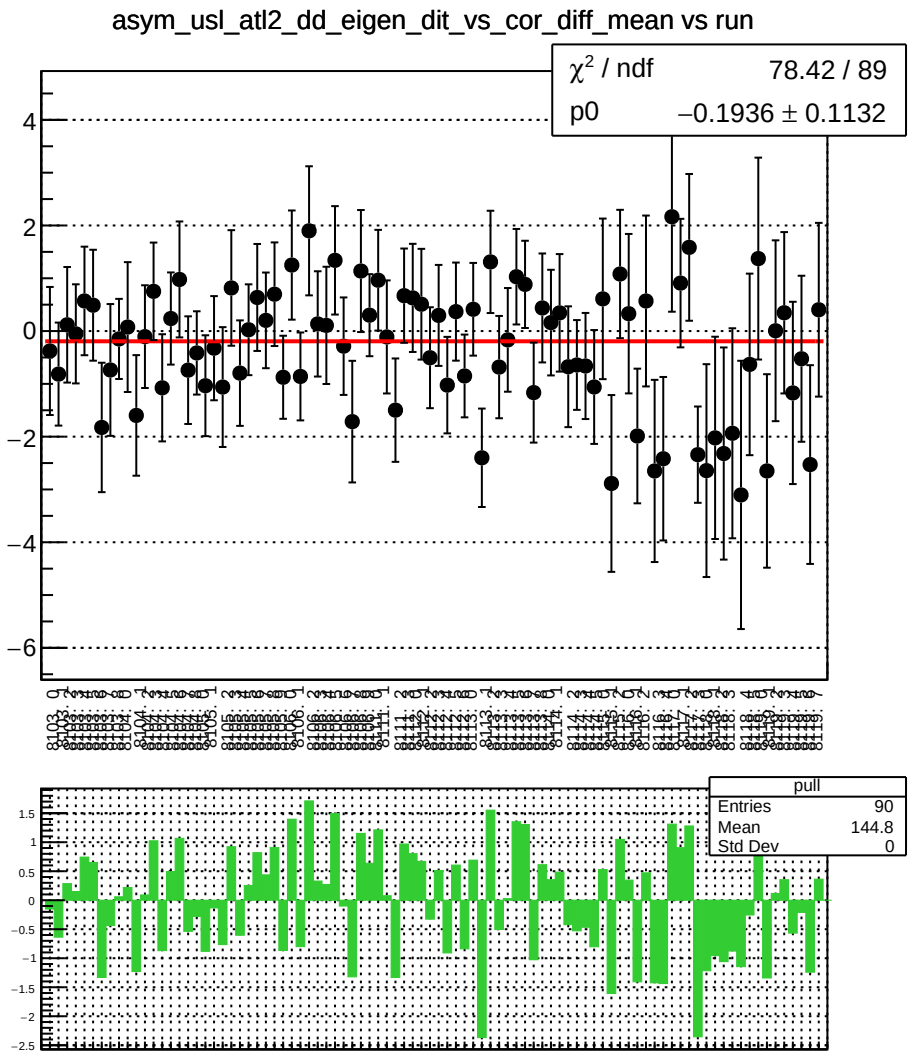

pull1D
Entries 90
Mean −0.04062
Std Dev 0.9326

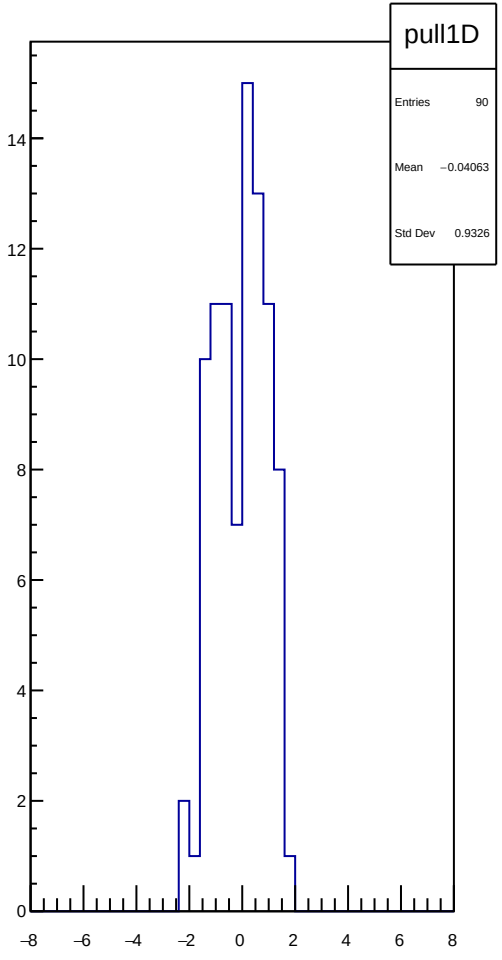

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.633e+04 / 89
p0 103.2 ± 0.08002
240
220
200
180
160
140
120
100
80

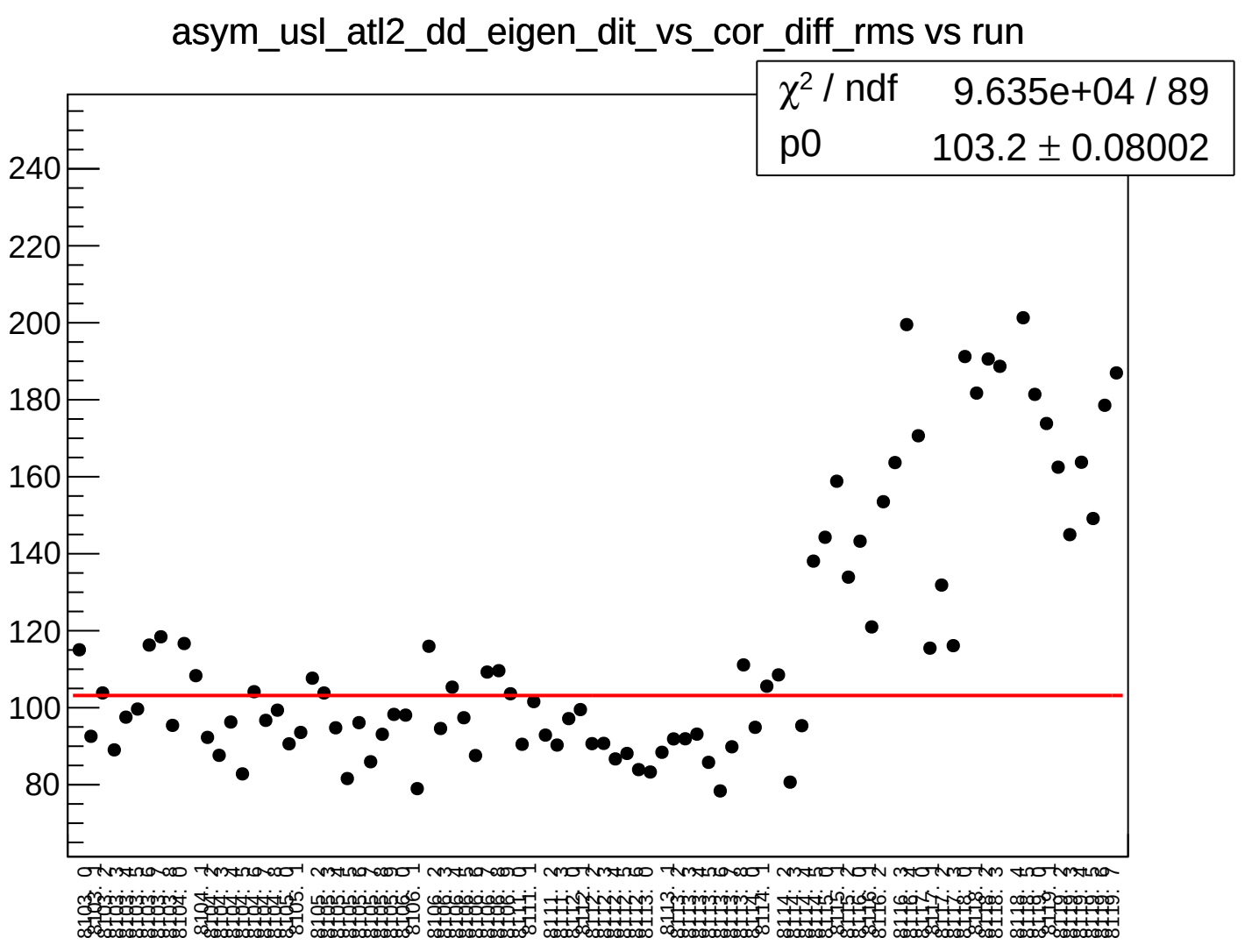

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.86 / 89
p0 −3.433e−05 ± 2.3e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 1140
Std Dev 0
3
2
1
0
−1
−2

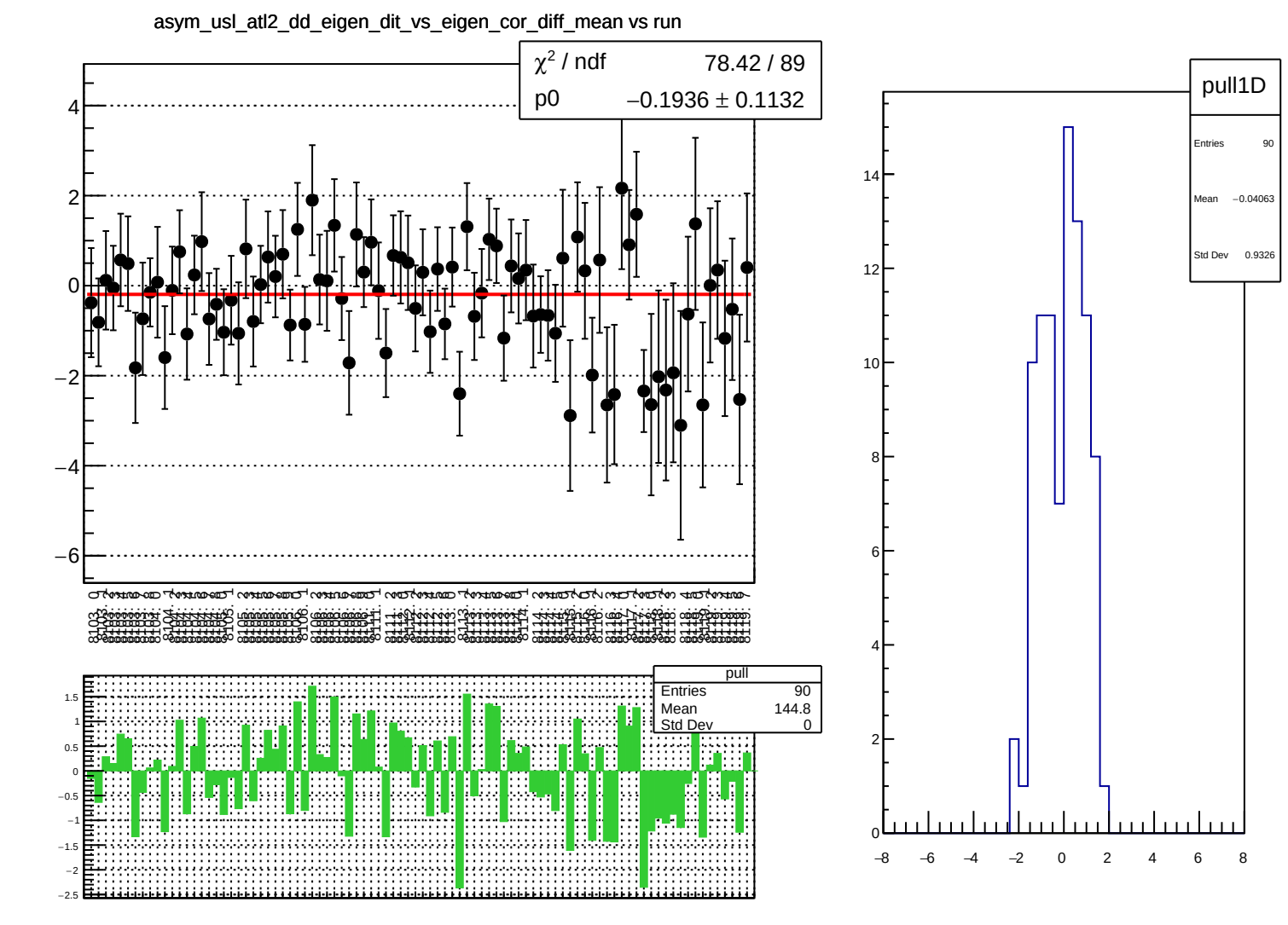

pull1D
Entries 90
Mean −0.006248
Std Dev 0.9936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

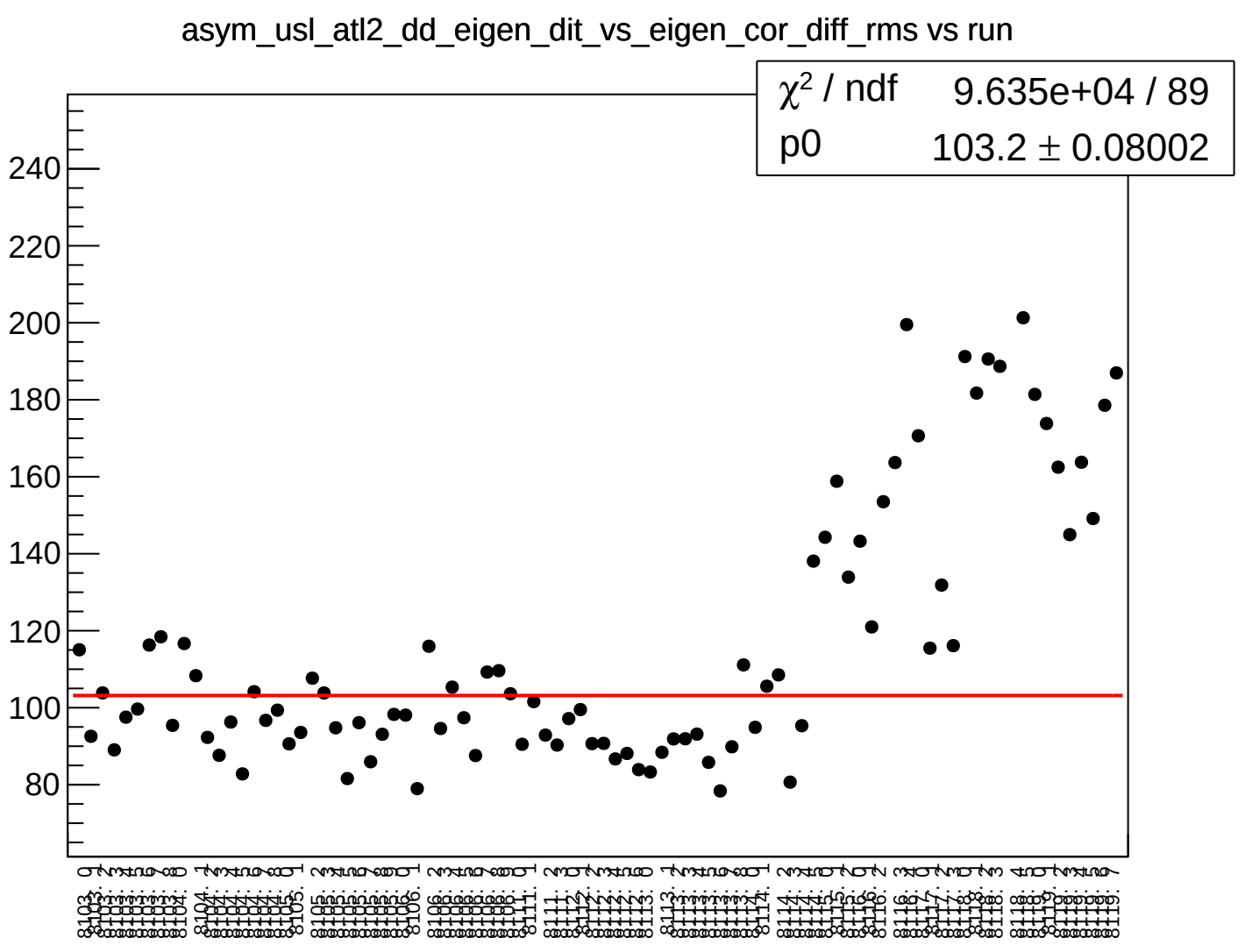

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3074 / 89
p0 0.02155 ± 1.626e−05
0.025
0.024
0.023
0.022
0.021
0.02

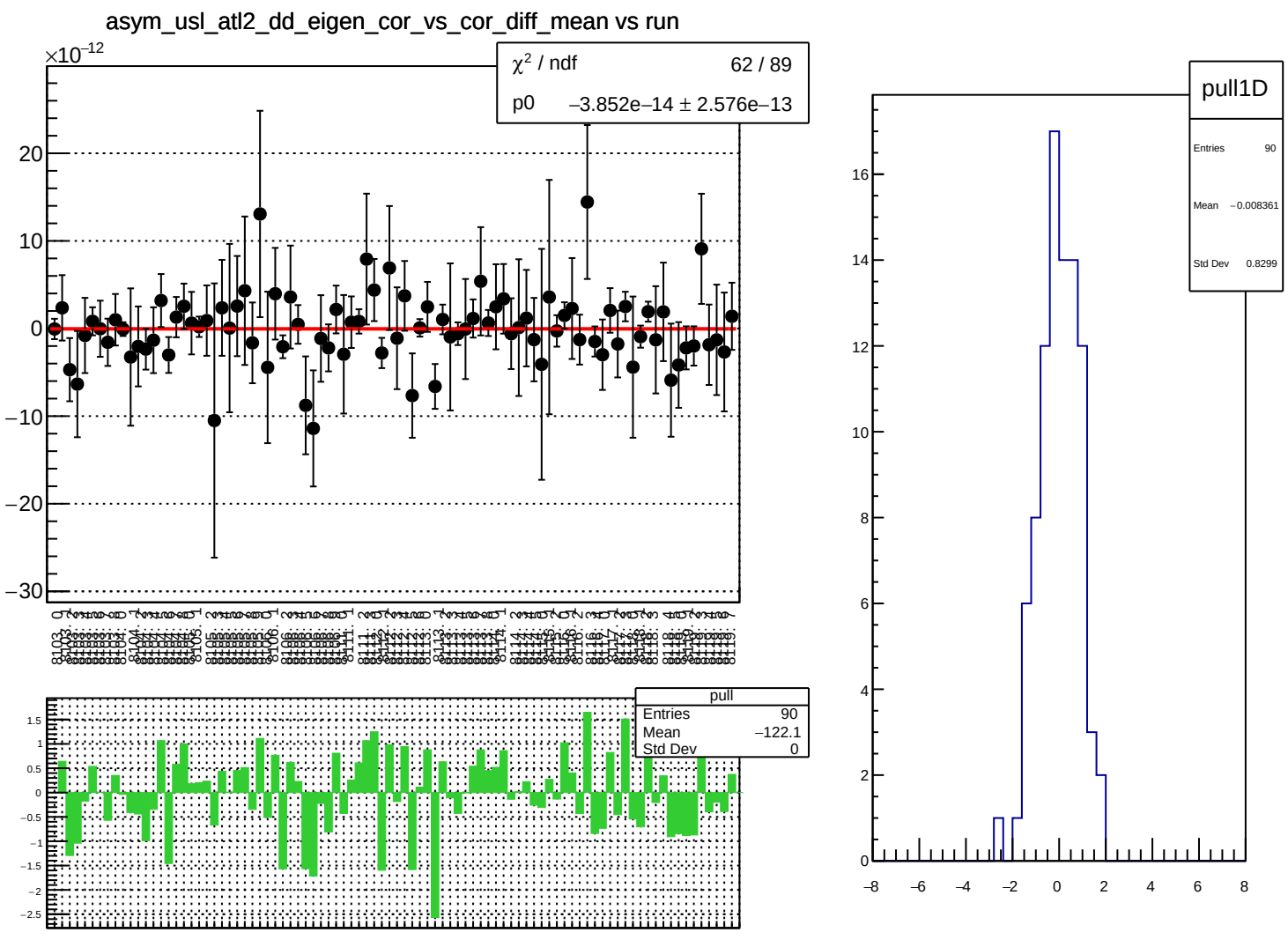

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.42 / 89
p0 −0.1936 ± 0.1132
pull
Entries 90
Mean 144.8
Std Dev 0

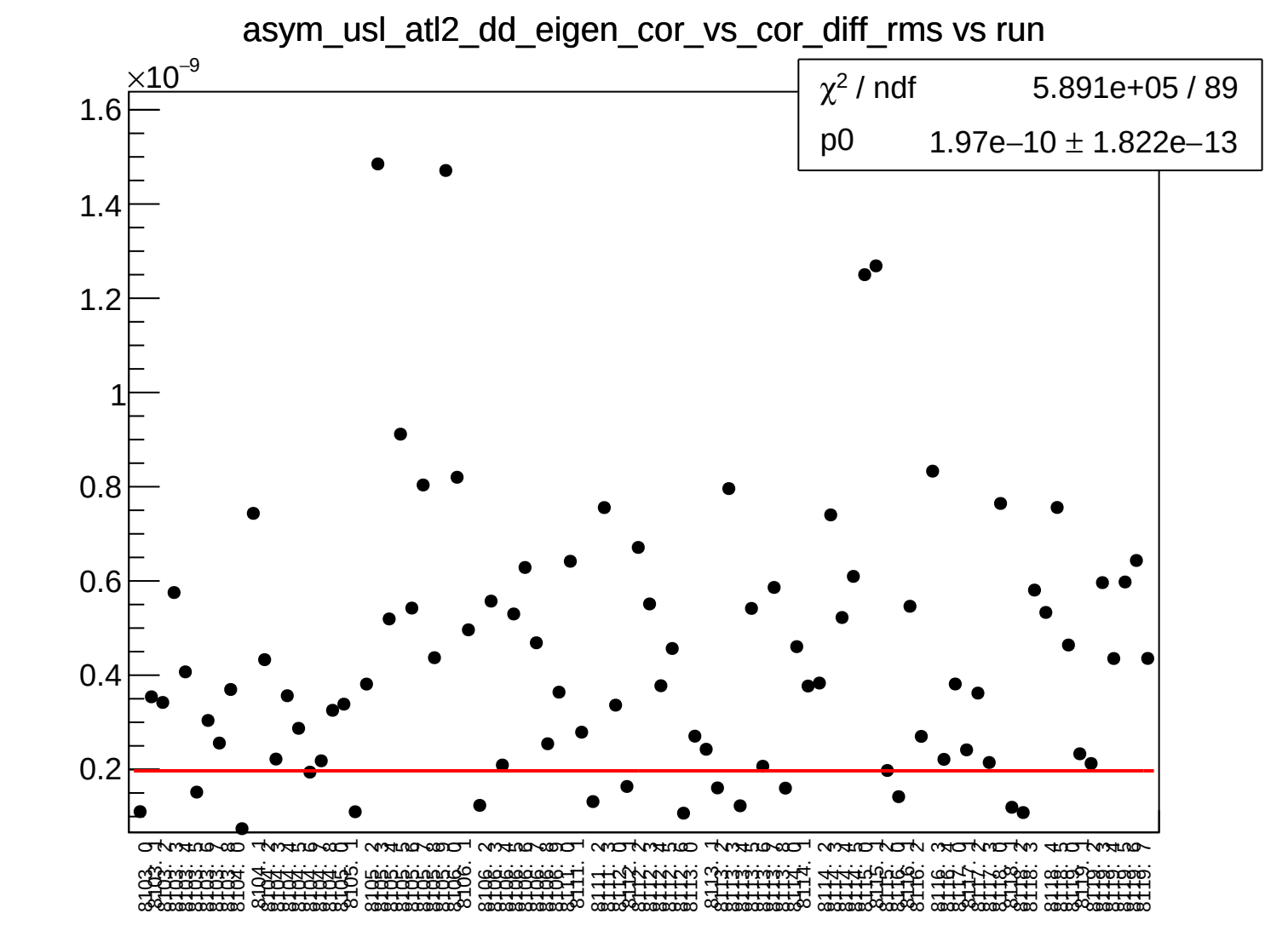

pull1D
Entries 90
Mean −0.04063
Std Dev 0.9326

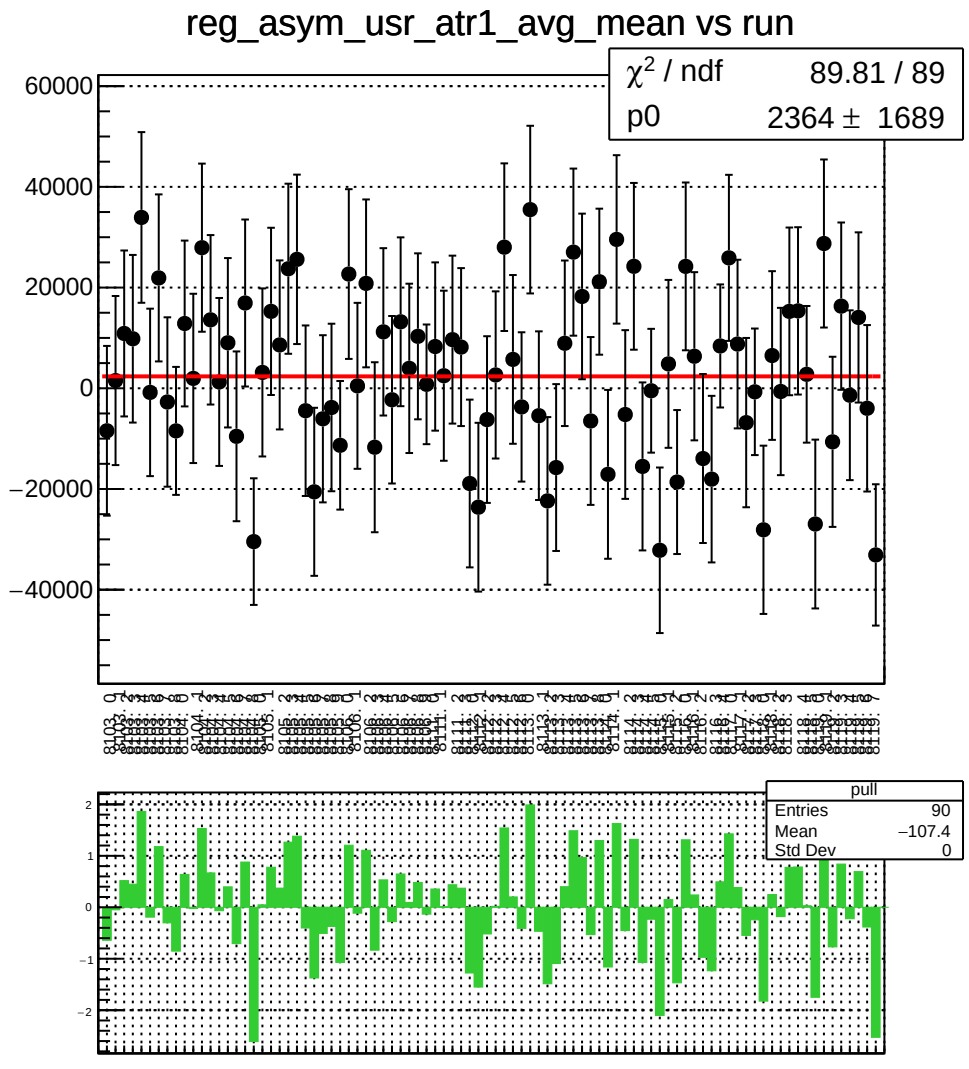

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.635e+04 / 89
p0 103.2 ± 0.08002
240
220
200
180
160
140
120
100
80

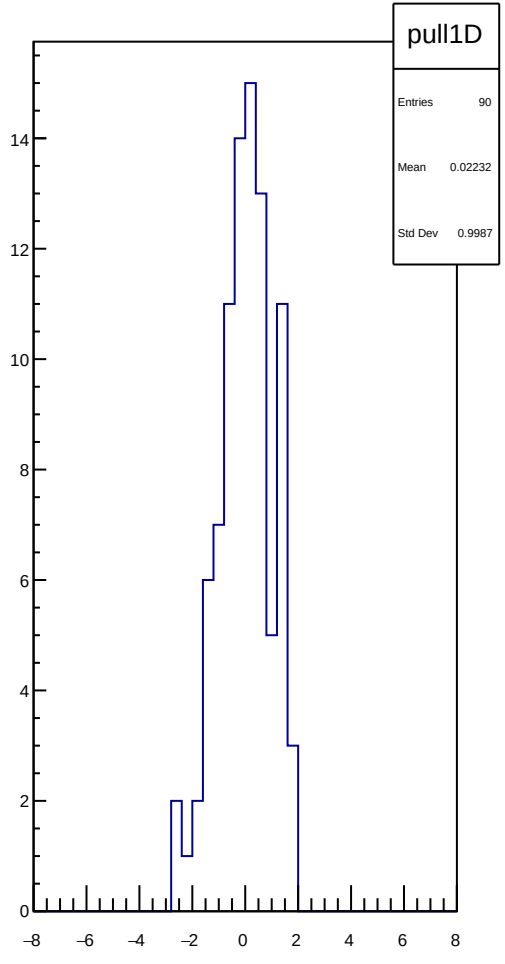

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.42 / 89
p0 −0.1936 ± 0.1132
pull
Entries 90
Mean 144.8
Std Dev 0
pull1D
Entries 90
Mean −0.04063
Std Dev 0.9326

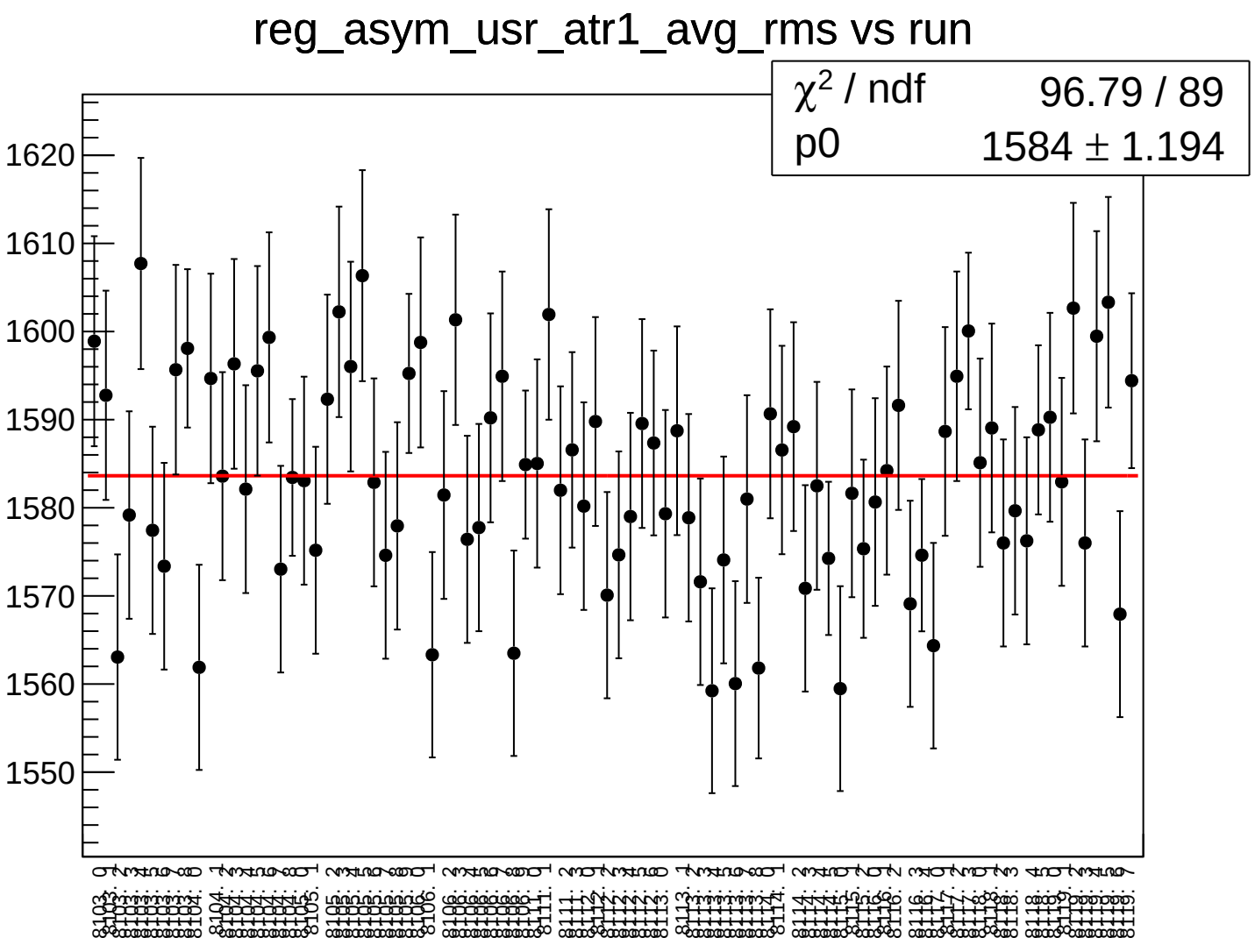

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.635e+04 / 89
p0 103.2 ± 0.08002
240
220
200
180
160
140
120
100
80

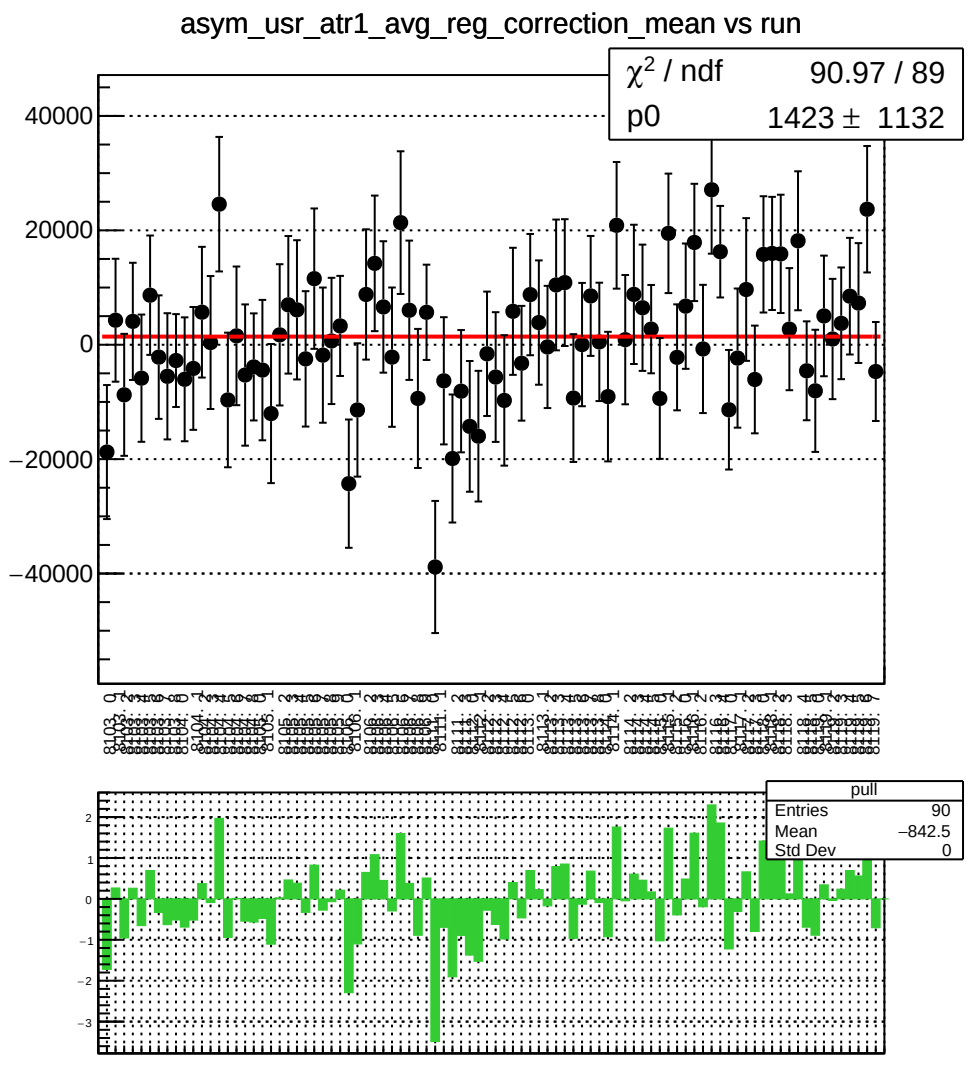

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 62 / 89
p0 −3.852e−14 ± 2.576e−13
pull
Entries 90
Mean −122.1
Std Dev 0
pull1D
Entries 90
Mean −0.008361
Std Dev 0.8299

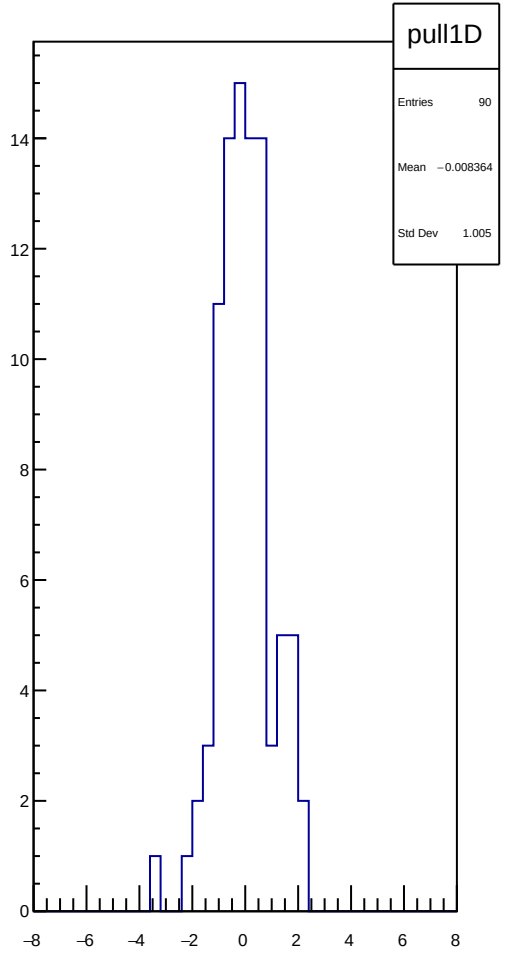

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.891e+05 / 89
p0 1.97e−10 ± 1.822e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

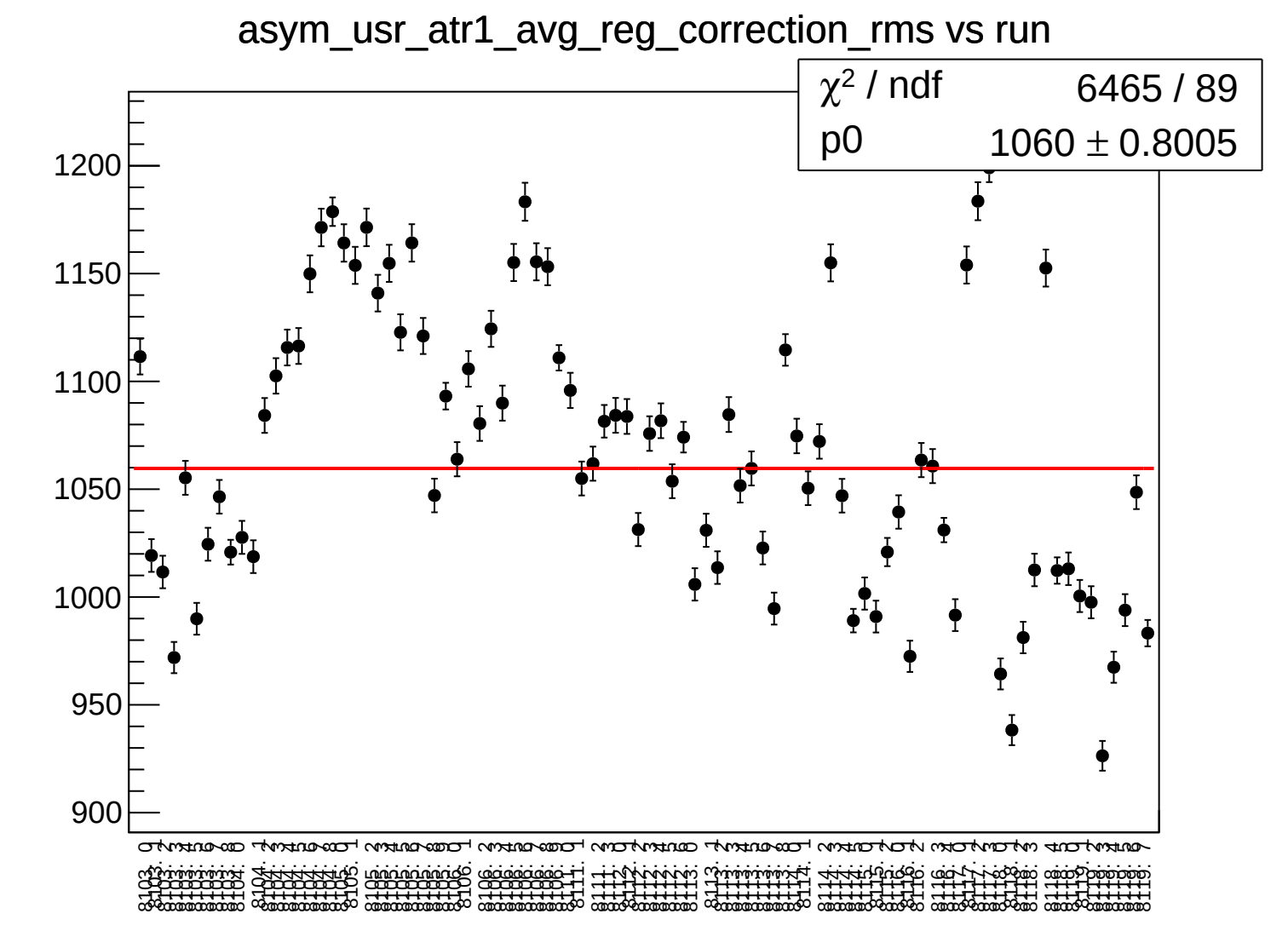

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 89.81 / 89
p0 2364 ± 1689
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −107.4
Std Dev 0
2
1
0
−1
−2

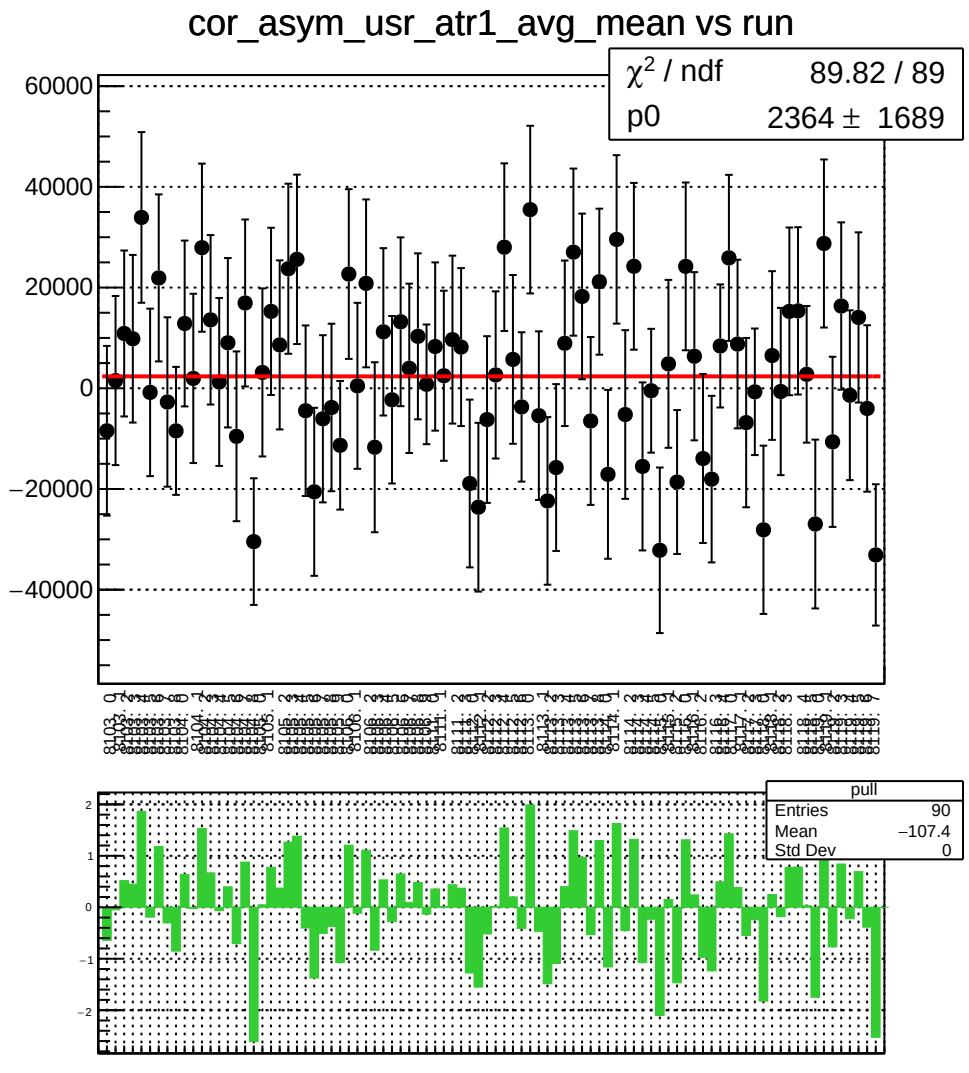

pull1D
Entries 90
Mean 0.02232
Std Dev 0.9987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

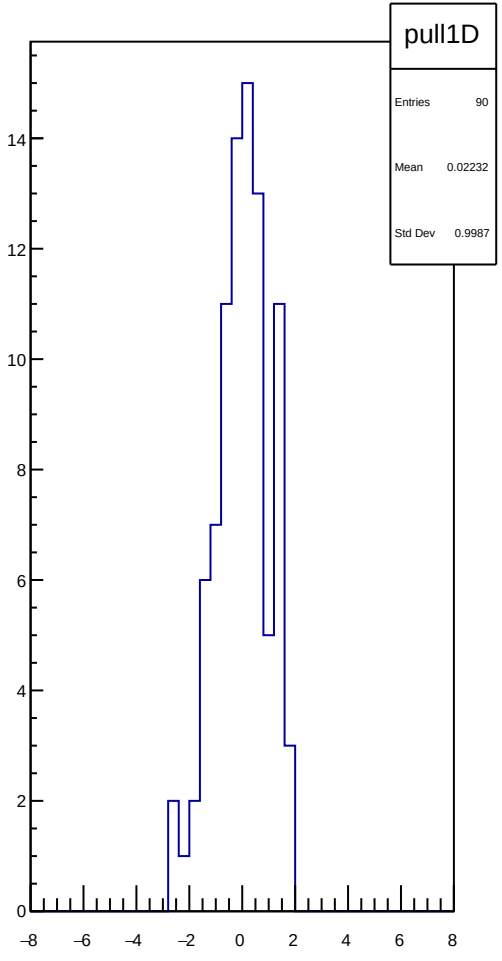

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 96.79 / 89
p0 1584 ± 1.194
1620
1610
1600
1590
1580
1570
1560
1550

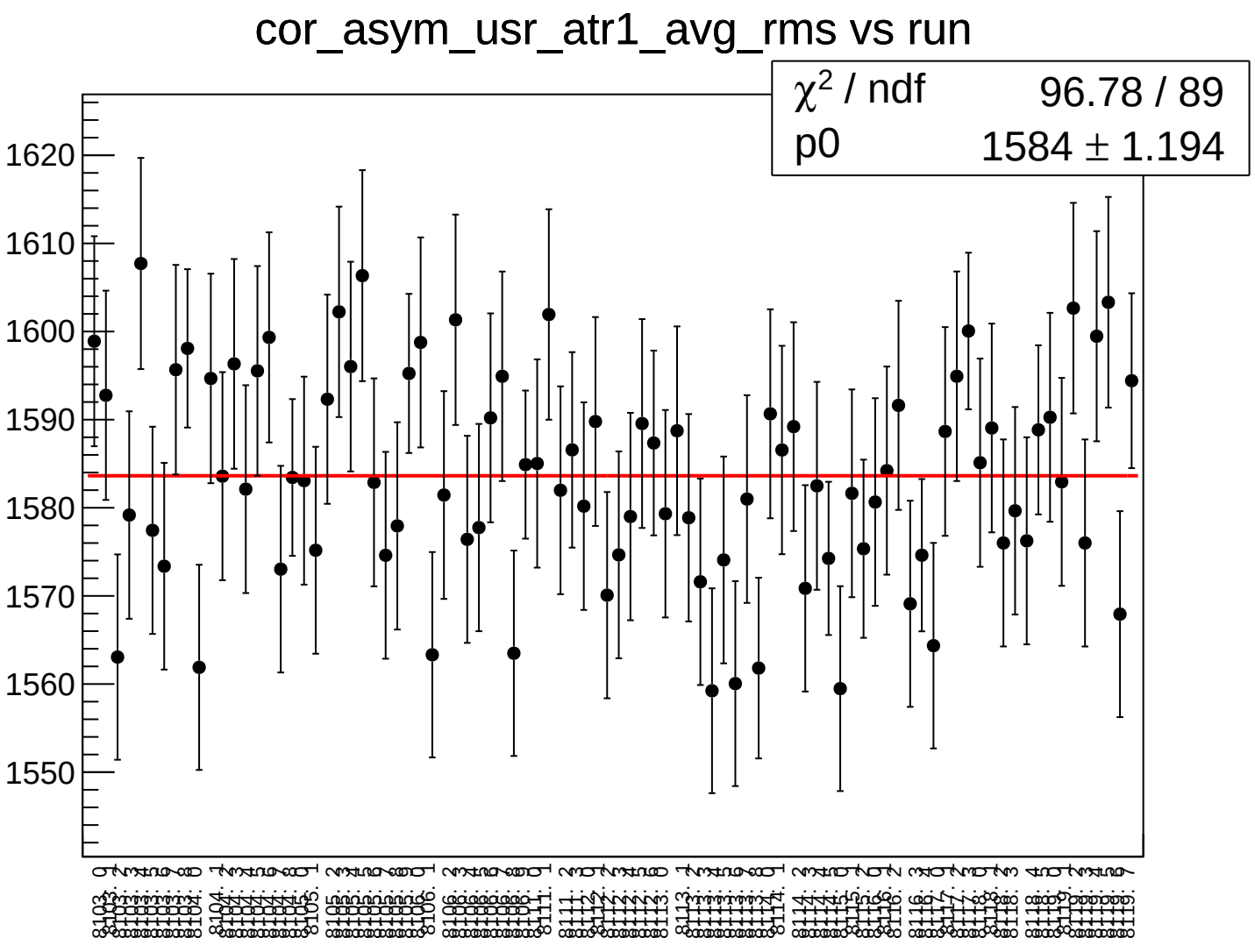

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 90.97 / 89
p0 1423 ± 1132
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −842.5
Std Dev 0
2
1
0
−1
−2
−3

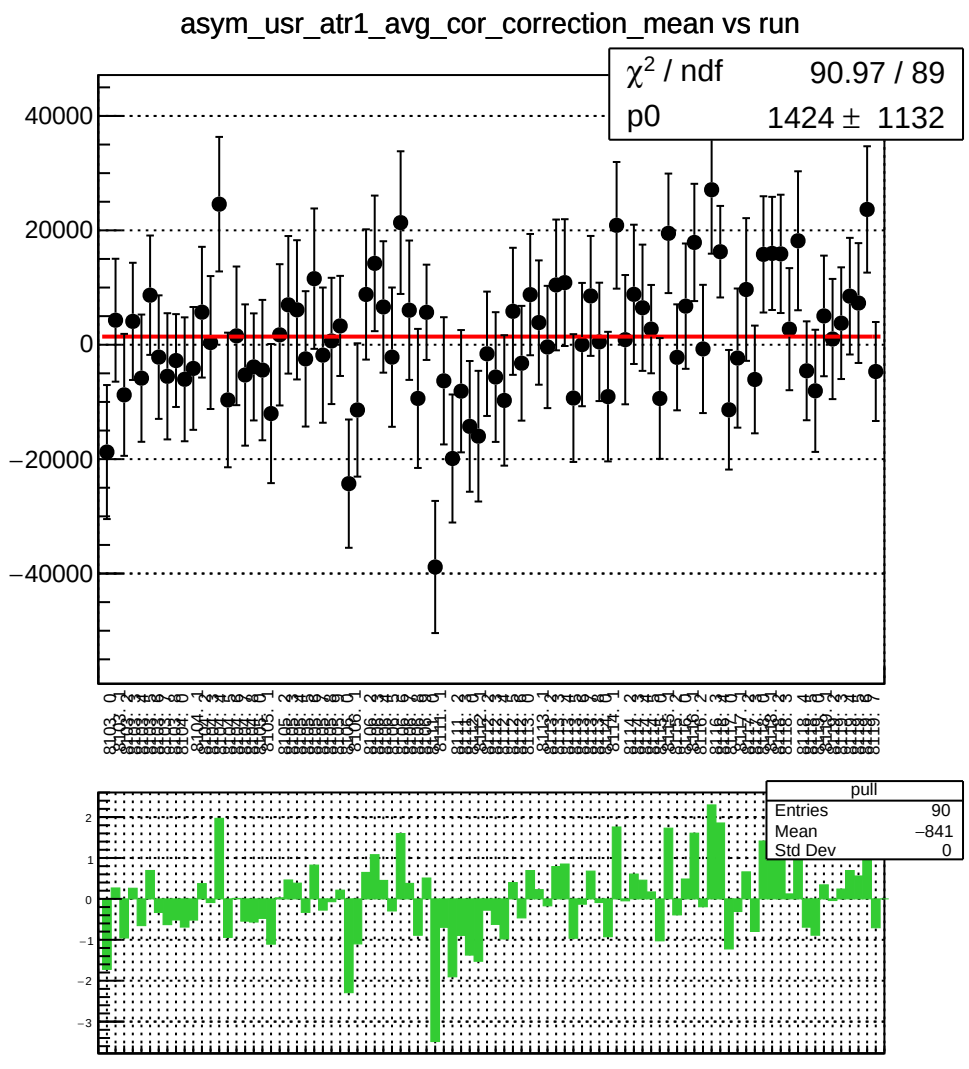

pull1D
Entries 90
Mean −0.008364
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

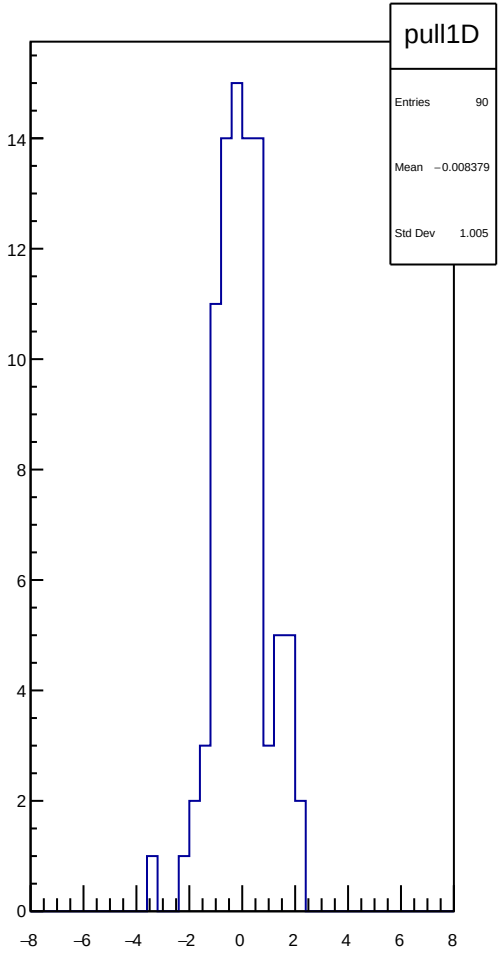

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 6465 / 89
p0 1060 ± 0.8005
1200
1150
1100
1050
1000
950
900

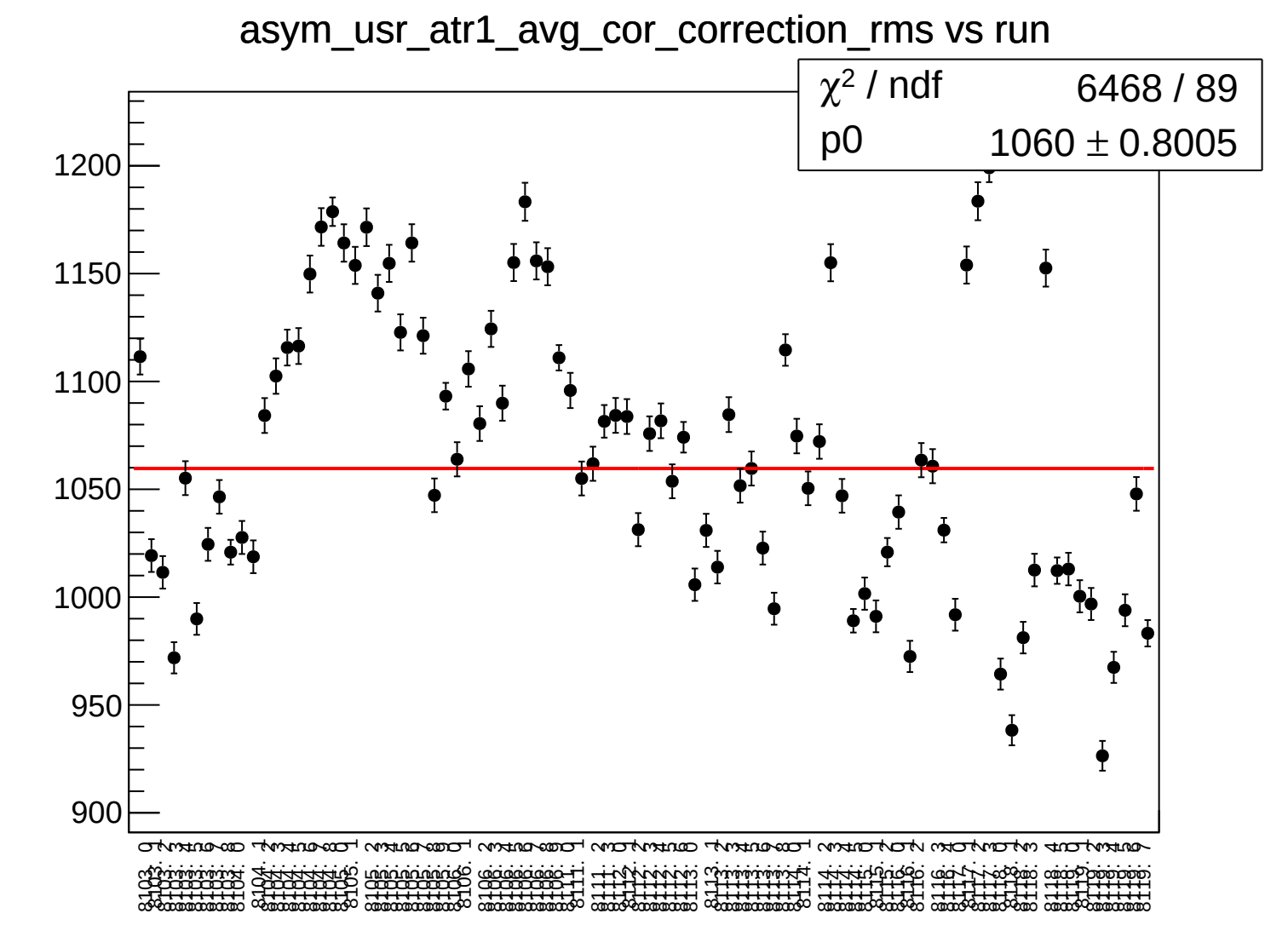

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 89.82 / 89
p0 2364 ± 1689
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −107.4
Std Dev 0
2
1
0
−1
−2

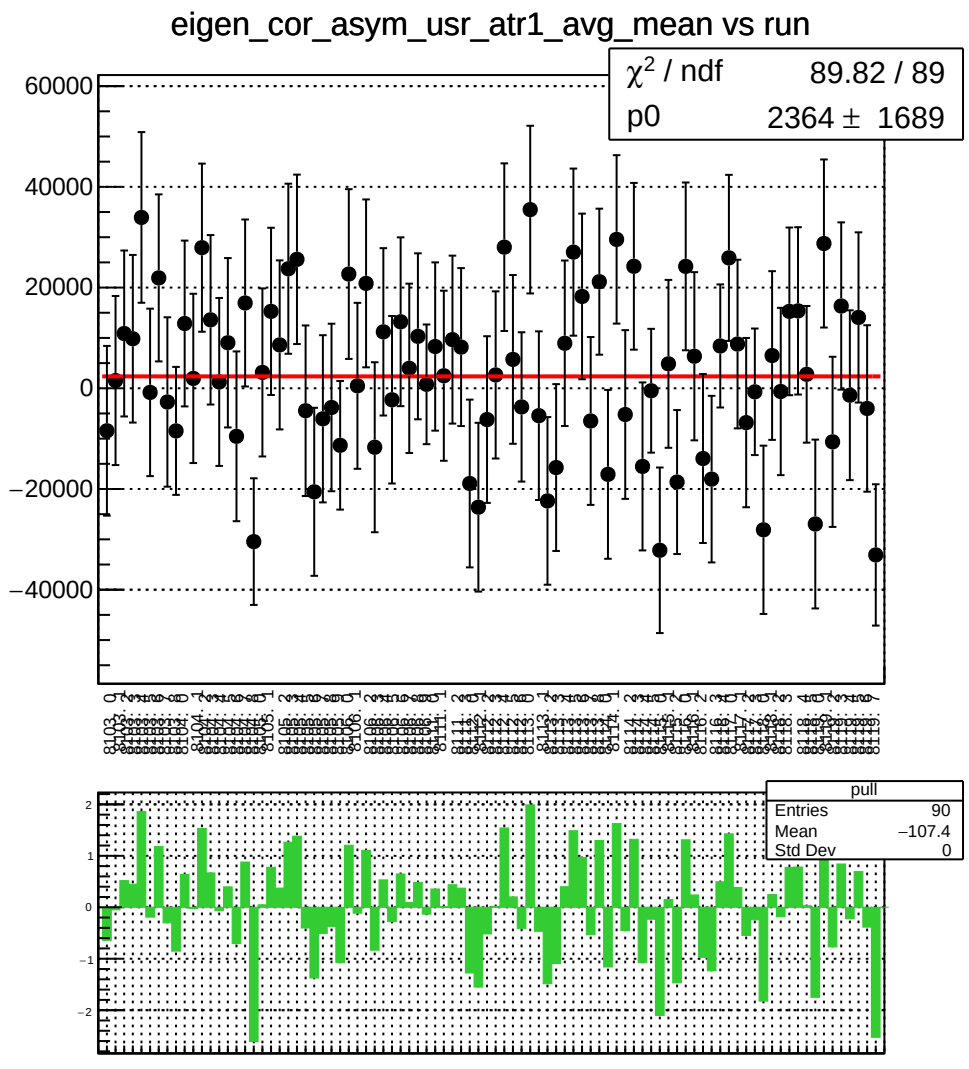

pull1D
Entries 90
Mean 0.02232
Std Dev 0.9987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

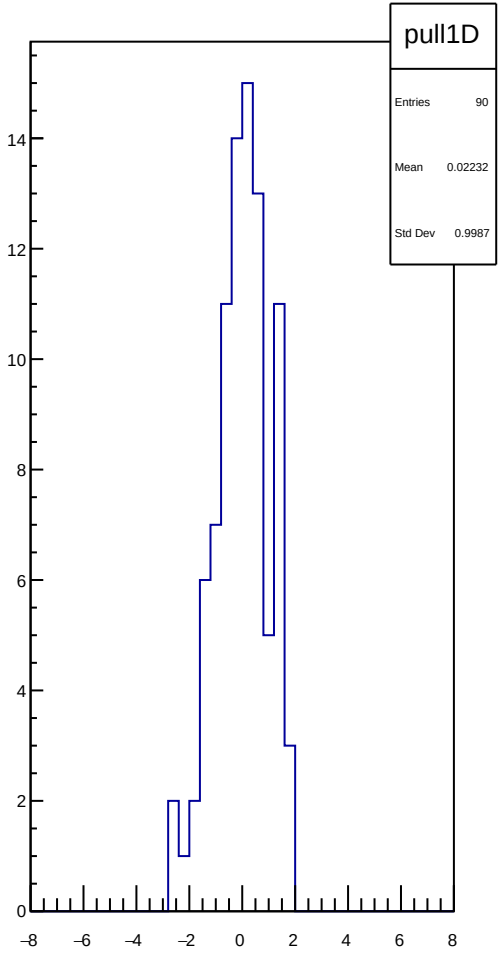

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 96.78 / 89
p0 1584 ± 1.194
1620
1610
1600
1590
1580
1570
1560
1550

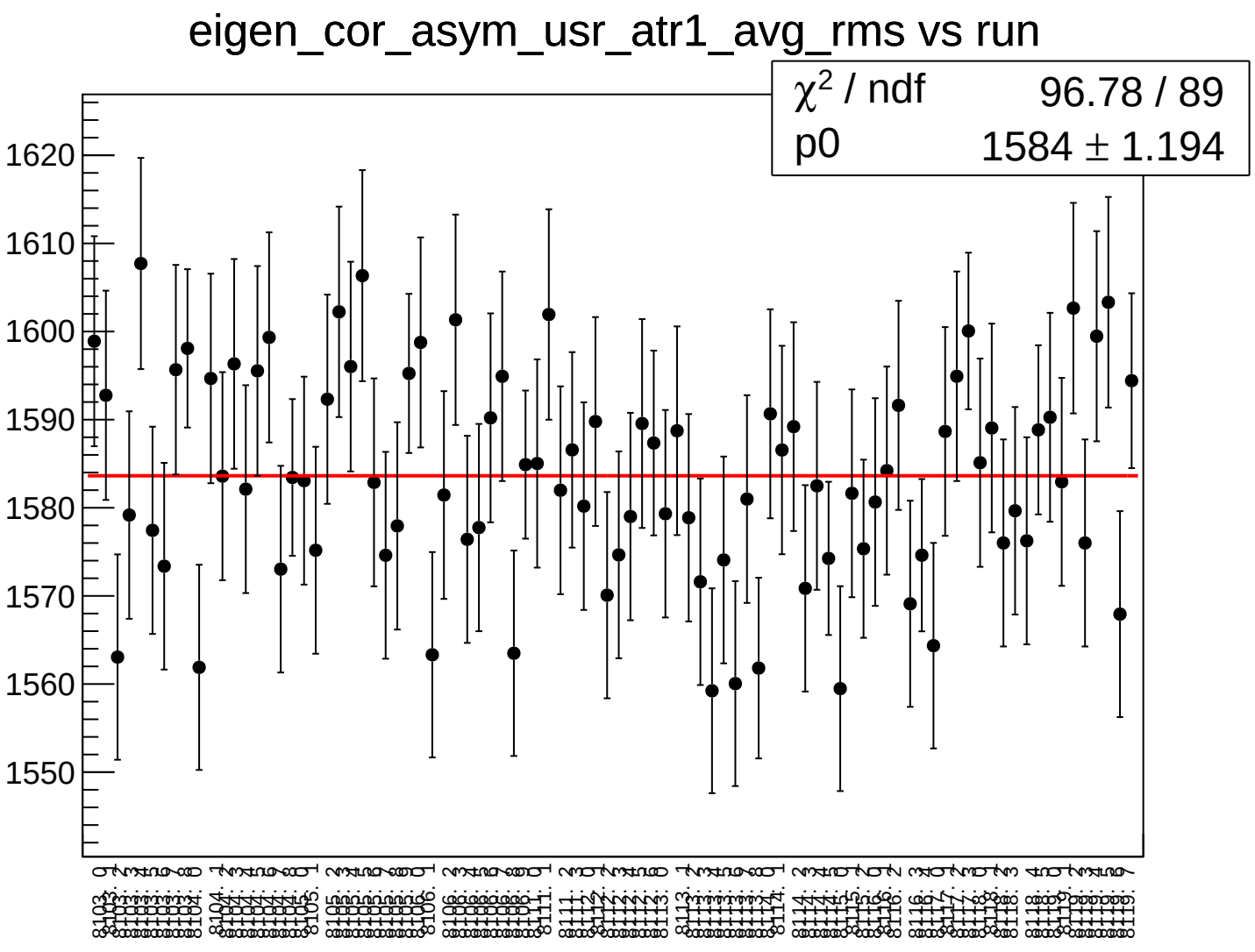

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 90.97 / 89
p0 1424 ± 1132
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −841
Std Dev 0
2
1
0
−1
−2
−3

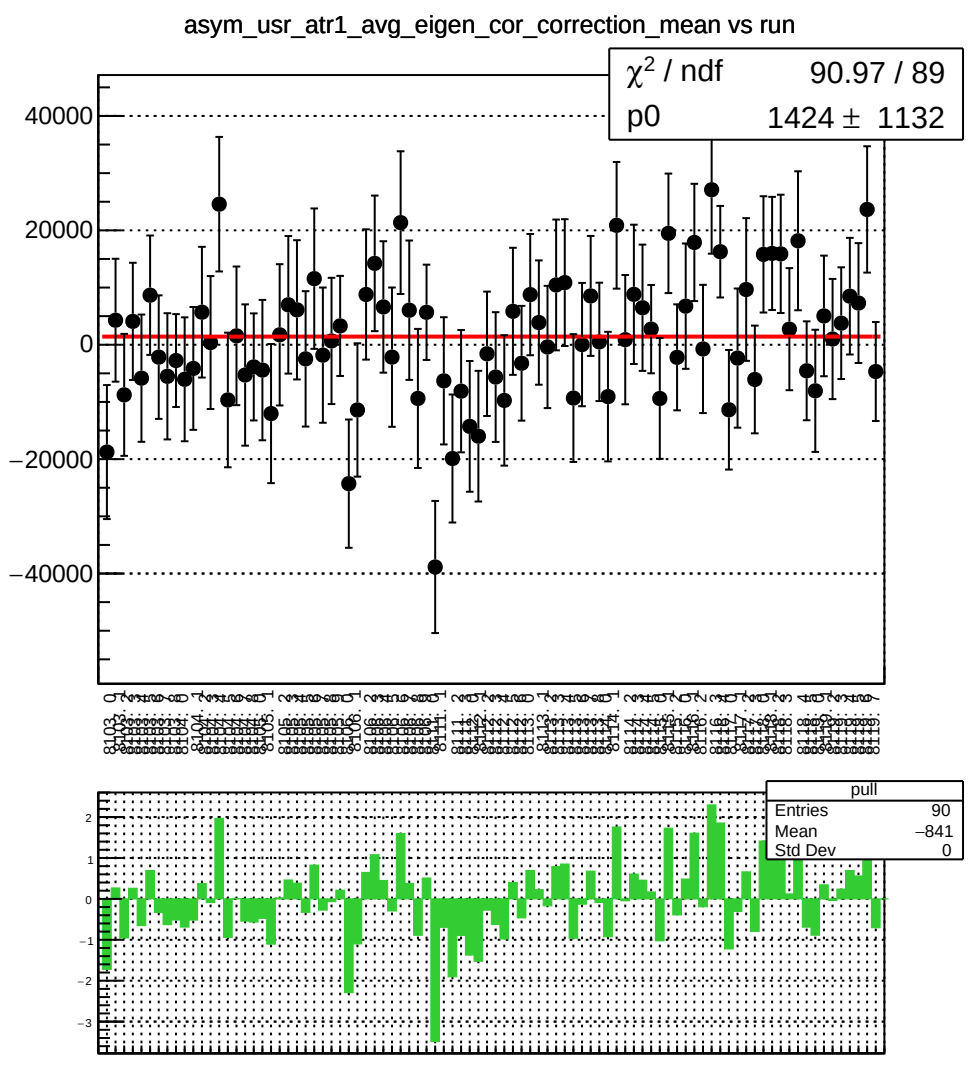

pull1D
Entries 90
Mean −0.008379
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

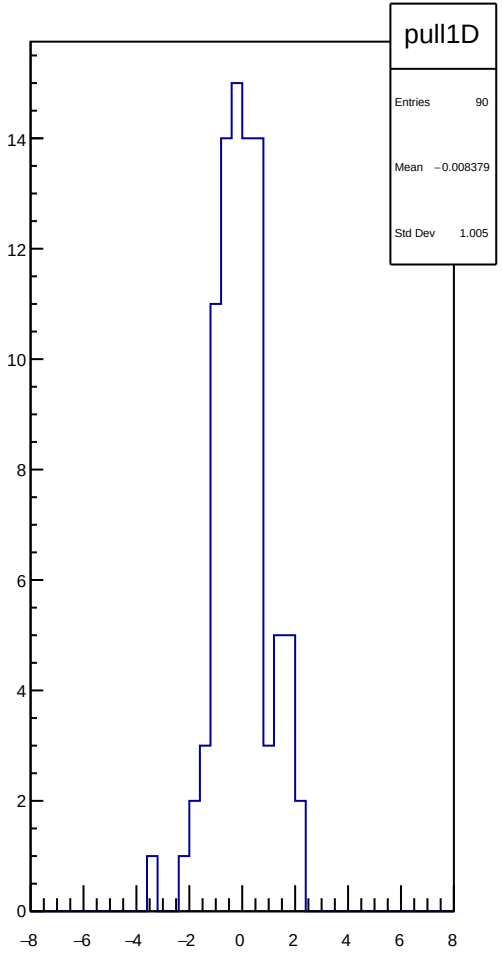

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 6468 / 89
p0 1060 ± 0.8005
1200
1150
1100
1050
1000
950
900

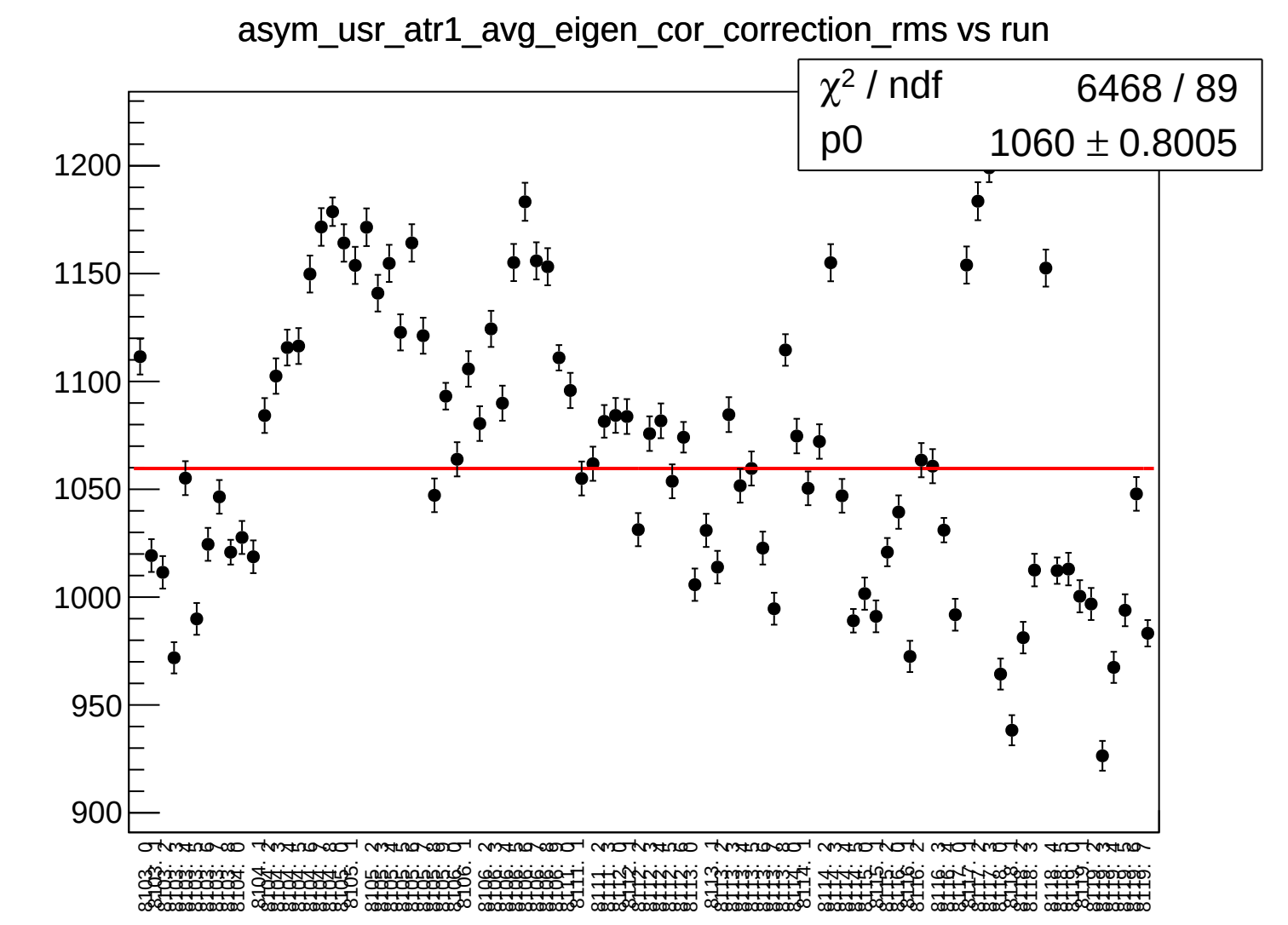

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 89.82 / 89
p0 2364 ± 1689
pull
Entries 90
Mean −107.4
Std Dev 0

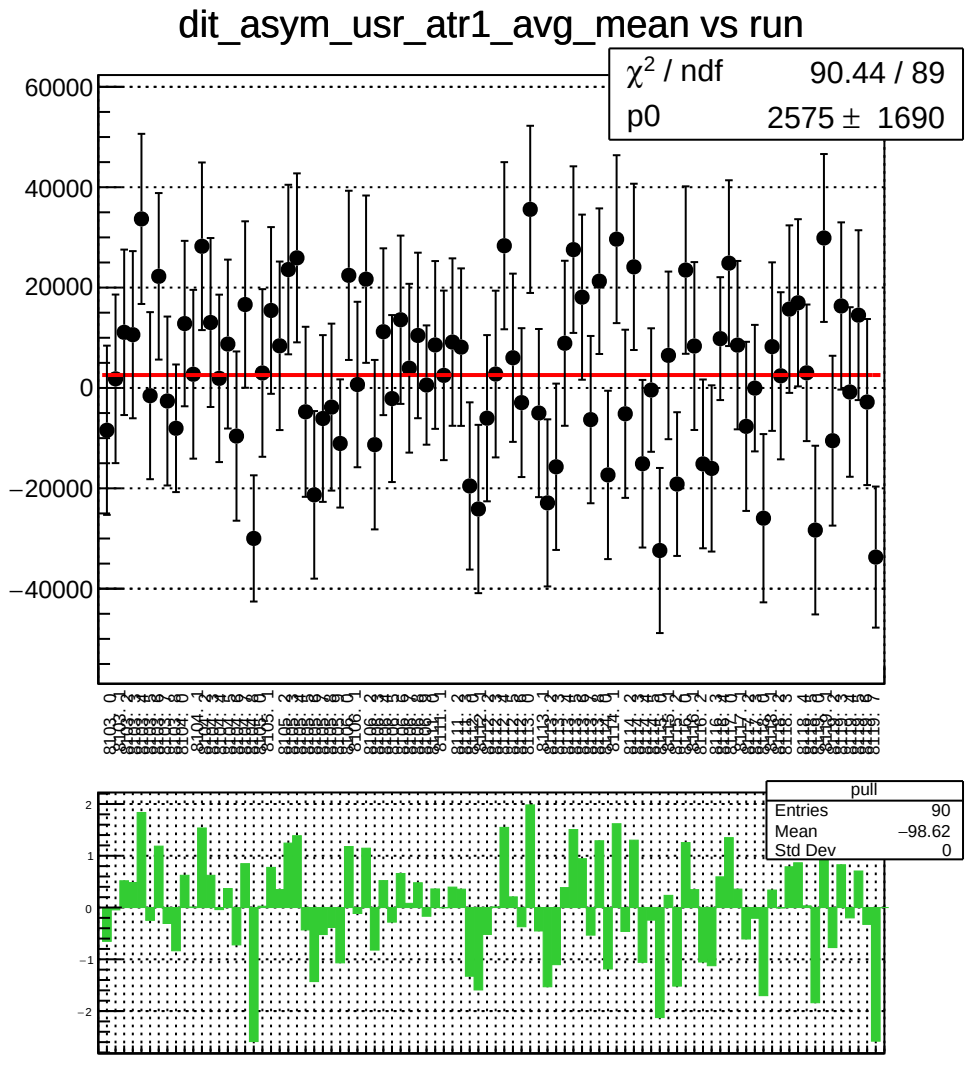

pull1D
Entries 90
Mean 0.02232
Std Dev 0.9987

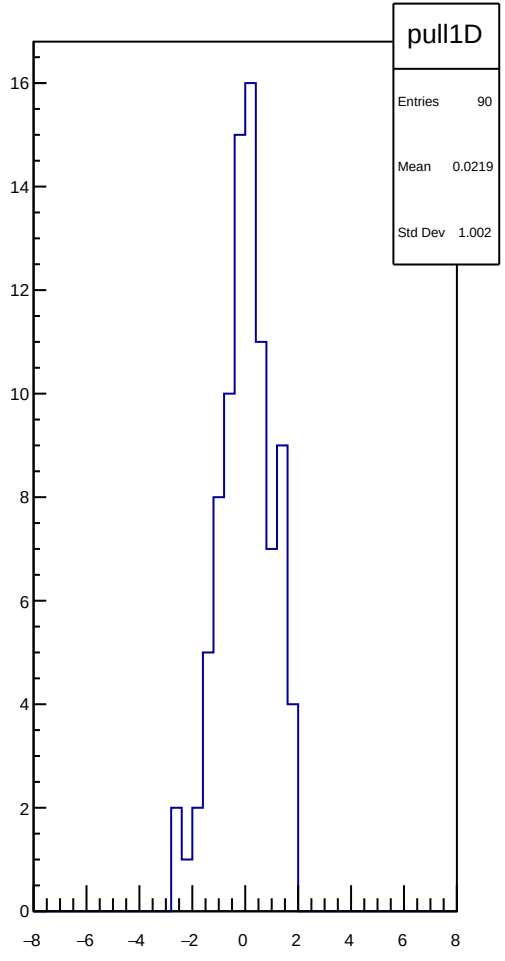

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 96.78 / 89
p0 1584 ± 1.194
1620
1610
1600
1590
1580
1570
1560
1550

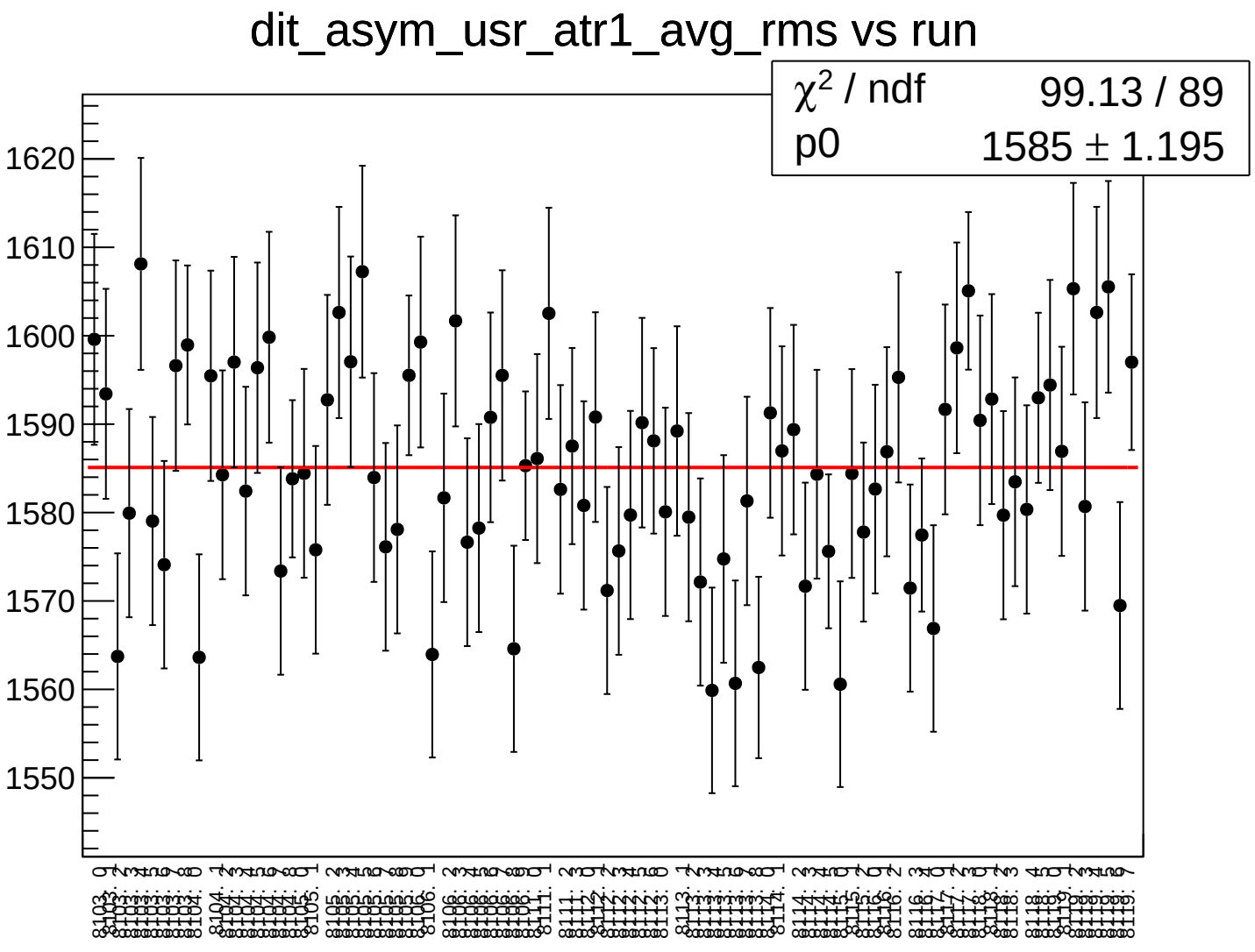

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.97 / 89
p0 1424 ± 1132
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −841
Std Dev 0
2
1
0
−1
−2
−3

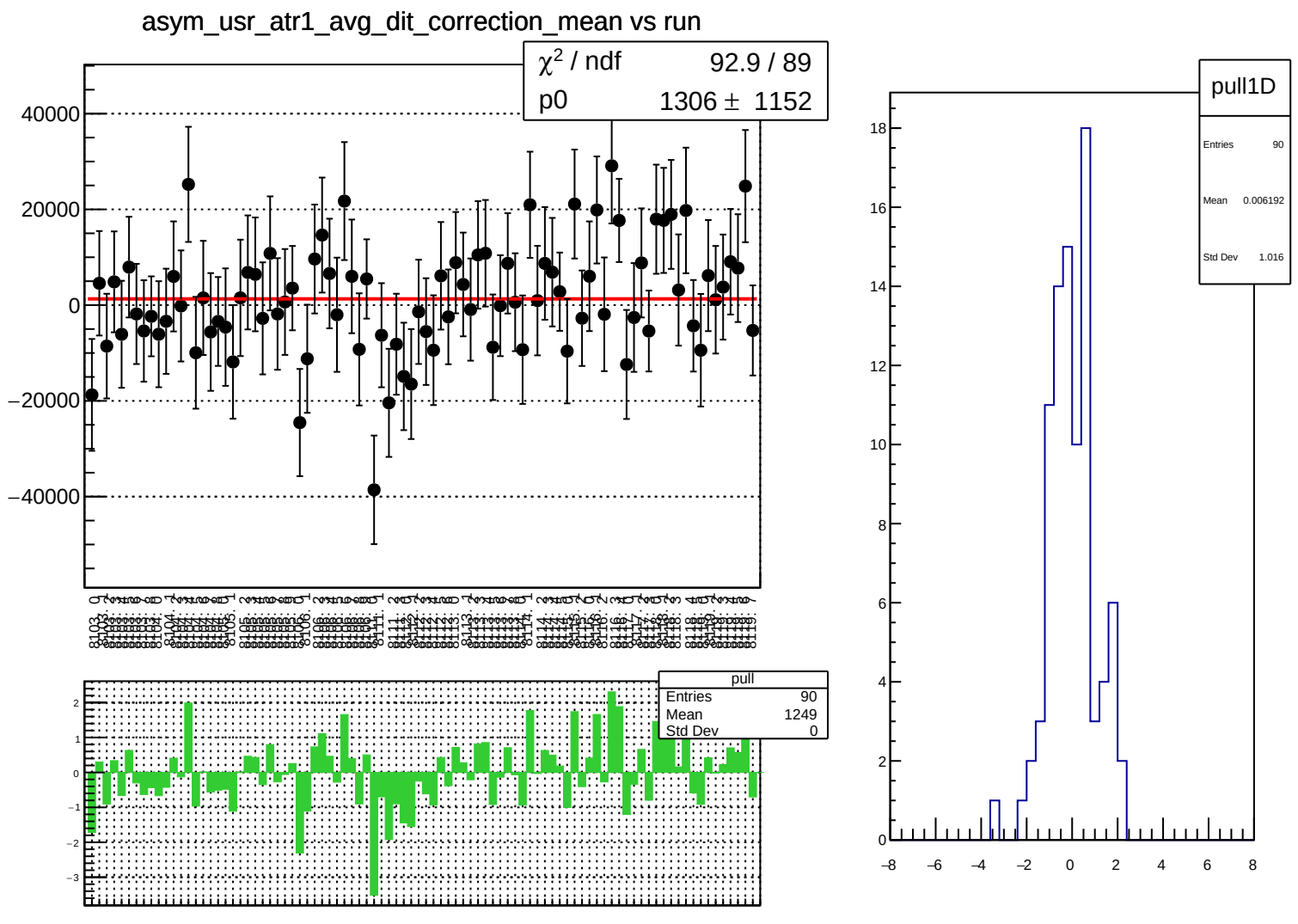

pull1D
Entries 90
Mean −0.008379
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

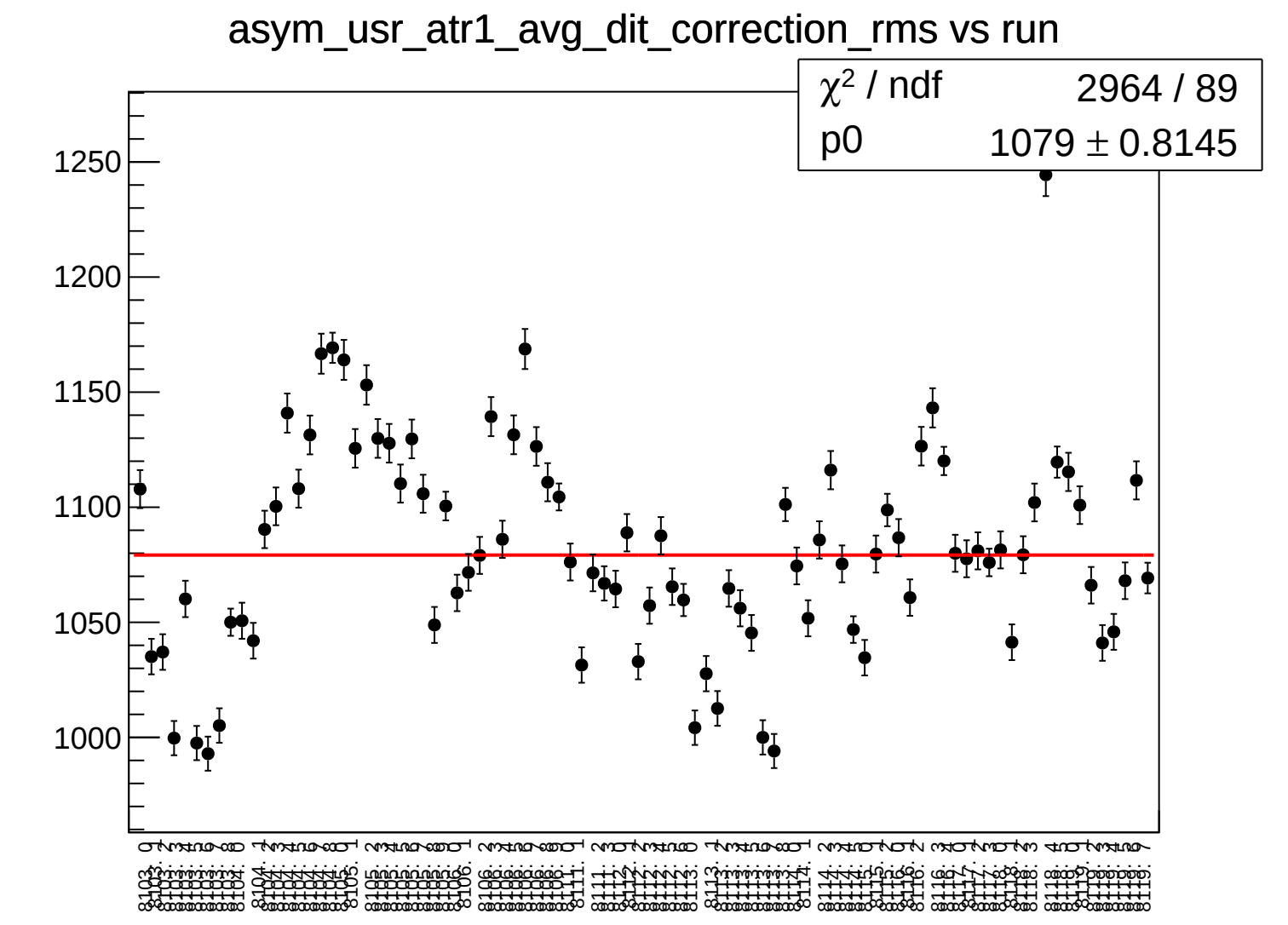

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6468 / 89
p0 1060 ± 0.8005
1200
1150
1100
1050
1000
950
900

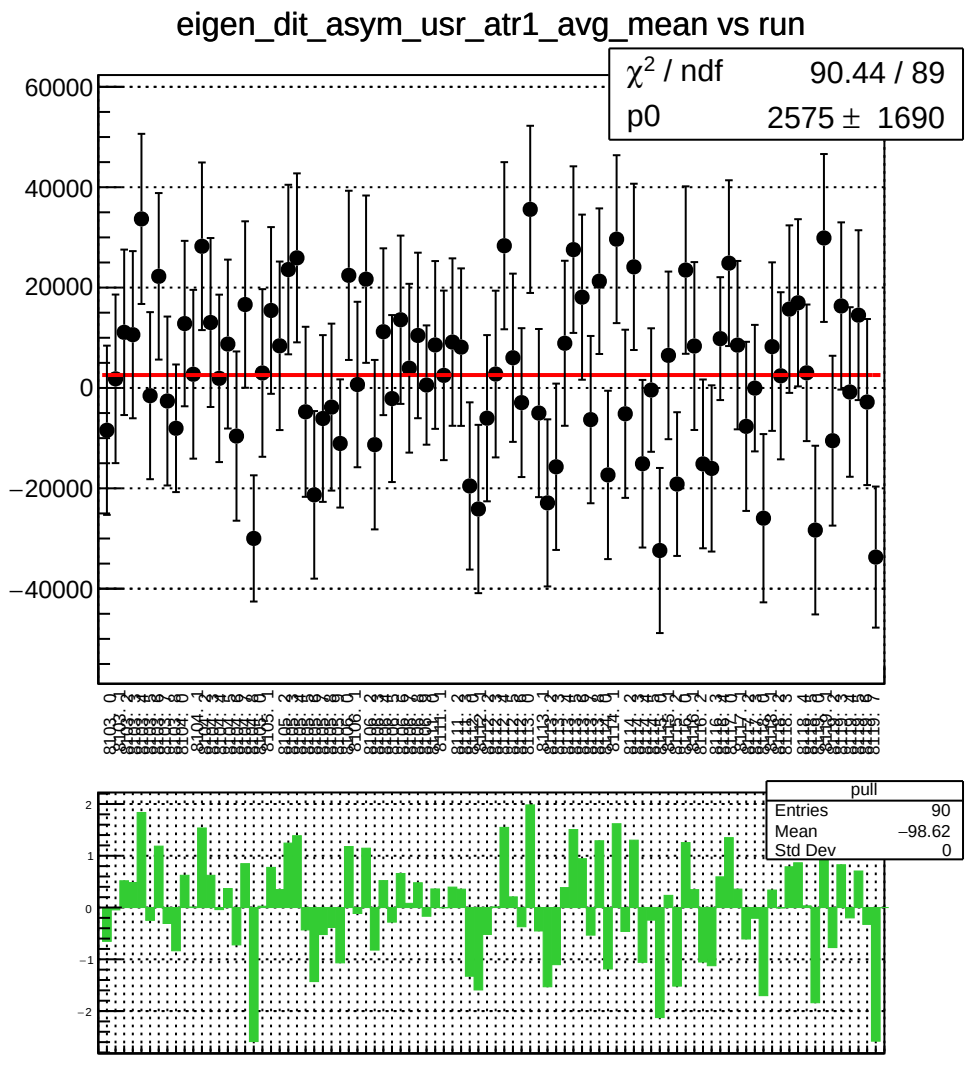

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 90.44 / 89
p0 2575 ± 1690
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −98.62
Std Dev 0
2
1
0
−1
−2

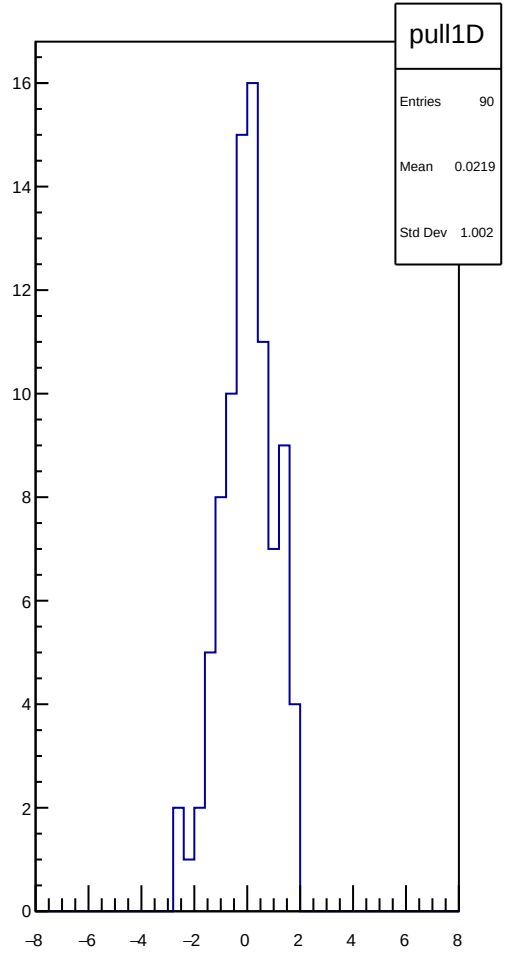

pull1D
Entries 90
Mean 0.0219
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

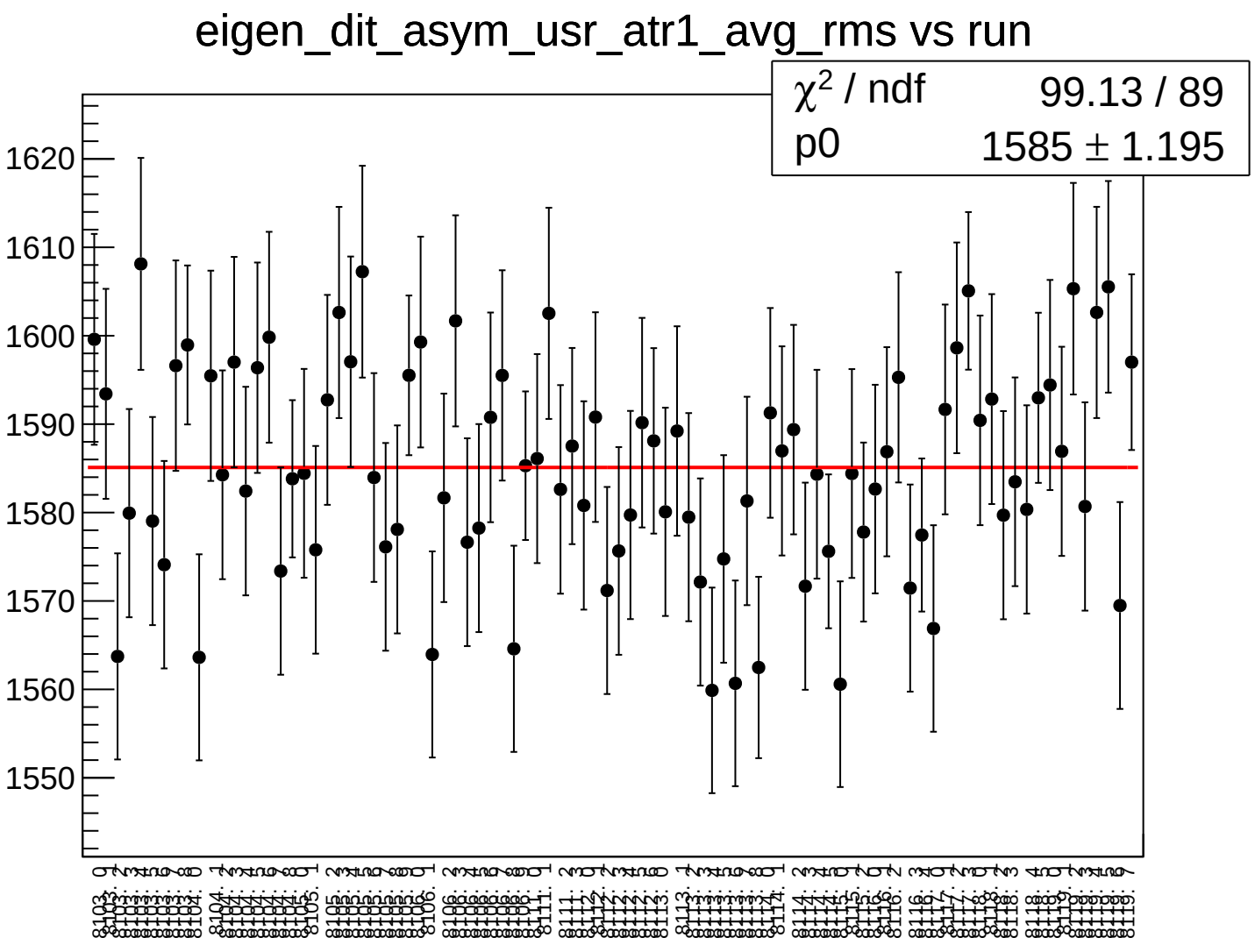

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 99.13 / 89
p0 1585 ± 1.195
1620
1610
1600
1590
1580
1570
1560
1550

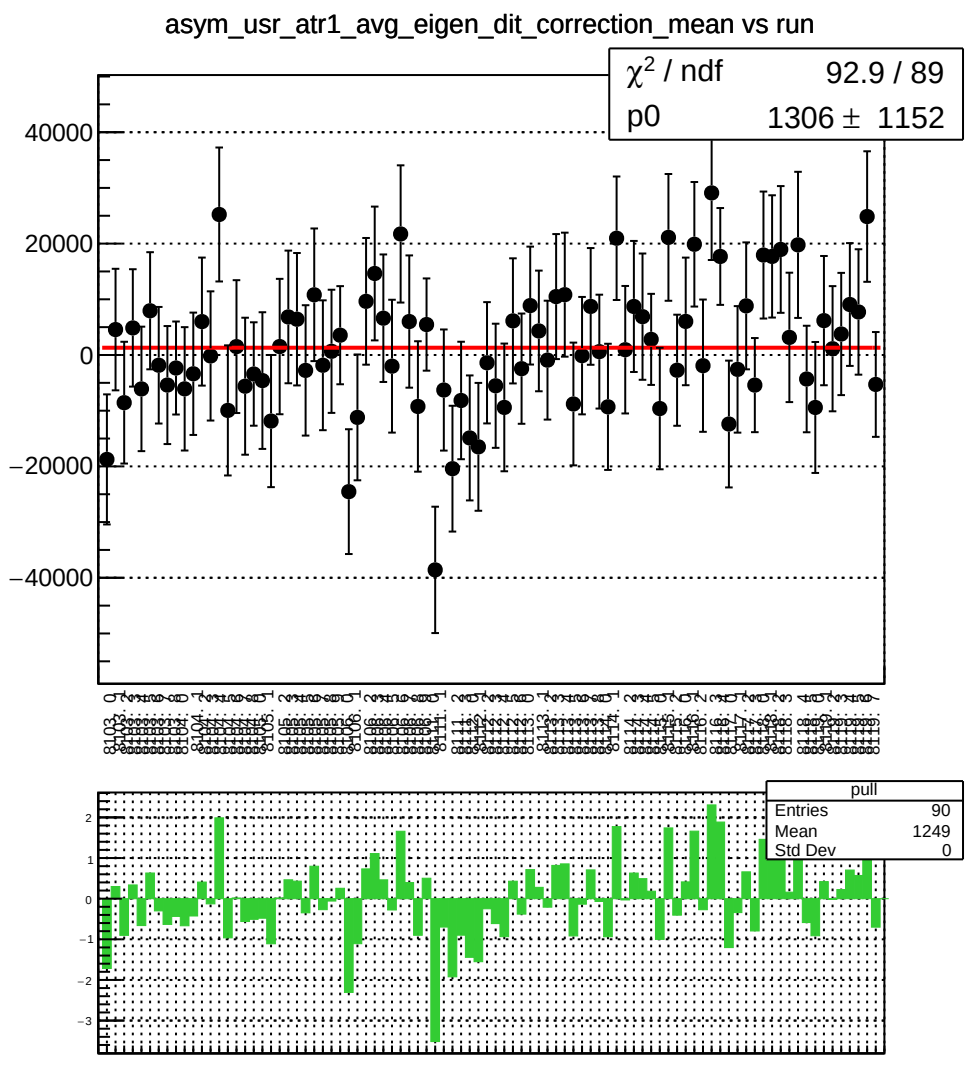

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 92.9 / 89
p0 1306 ± 1152
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1249
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.006192
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

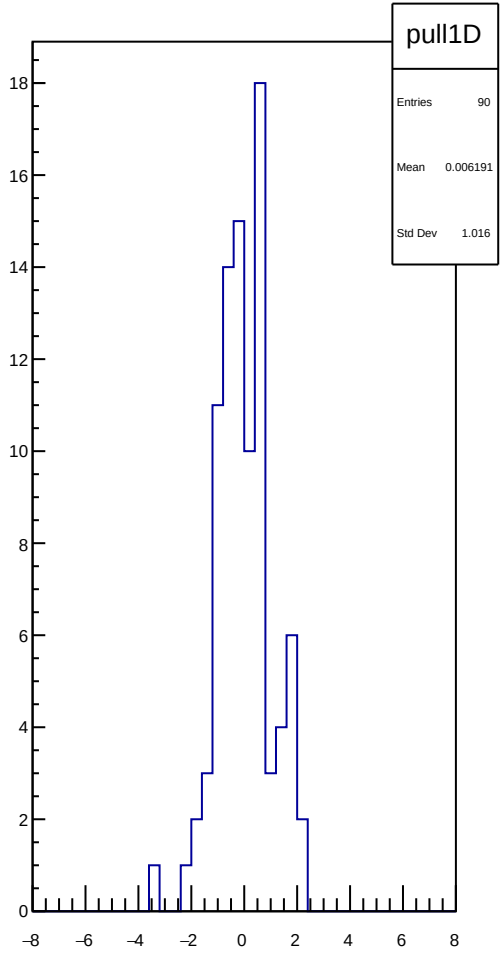

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2964 / 89
p0 1079 ± 0.8145
1250
1200
1150
1100
1050
1000

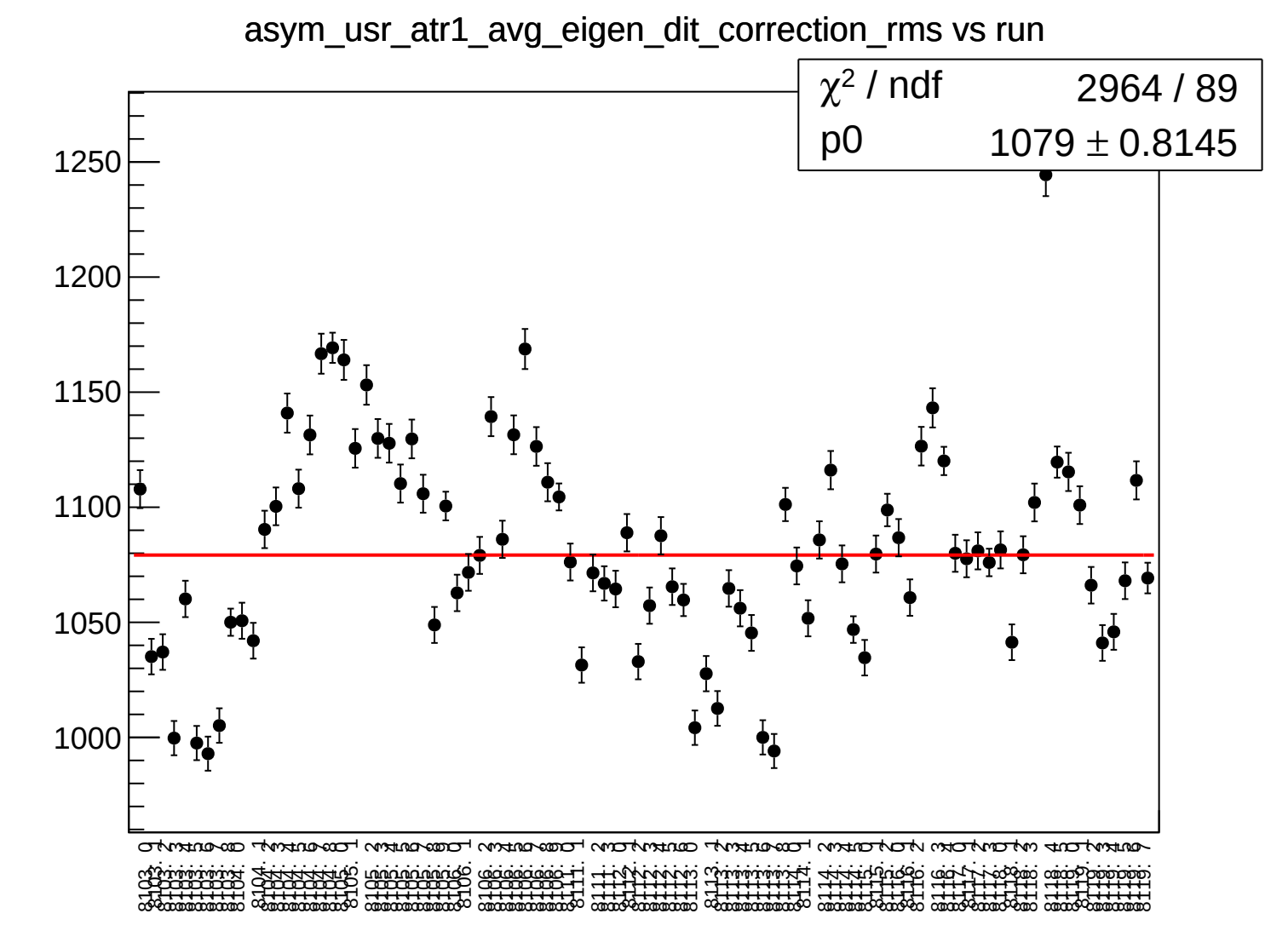

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 90.44 / 89
p0 2575 ± 1690
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −98.62
Std Dev 0
2
1
0
−1
−2

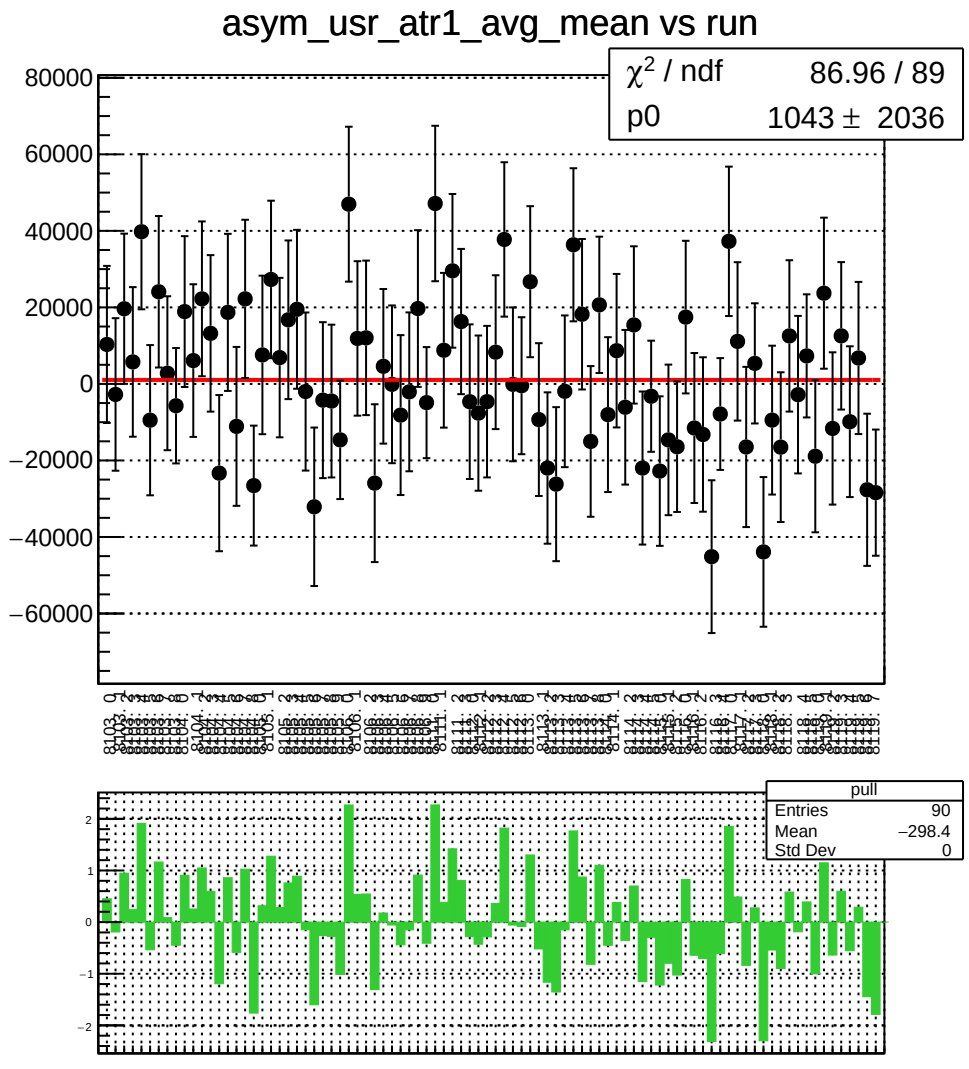

pull1D
Entries 90
Mean 0.0219
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

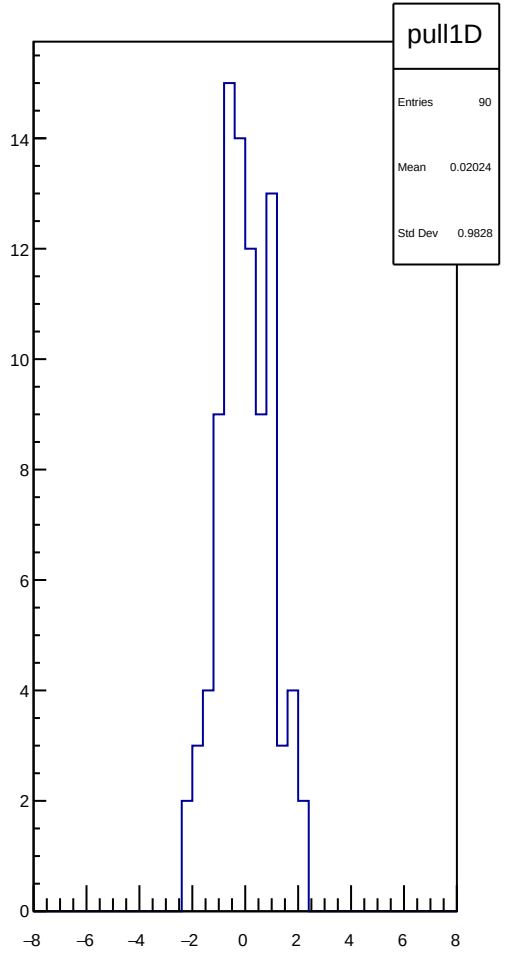

eigen_dit_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 99.13 / 89
p0 1585 ± 1.195
1620
1610
1600
1590
1580
1570
1560
1550

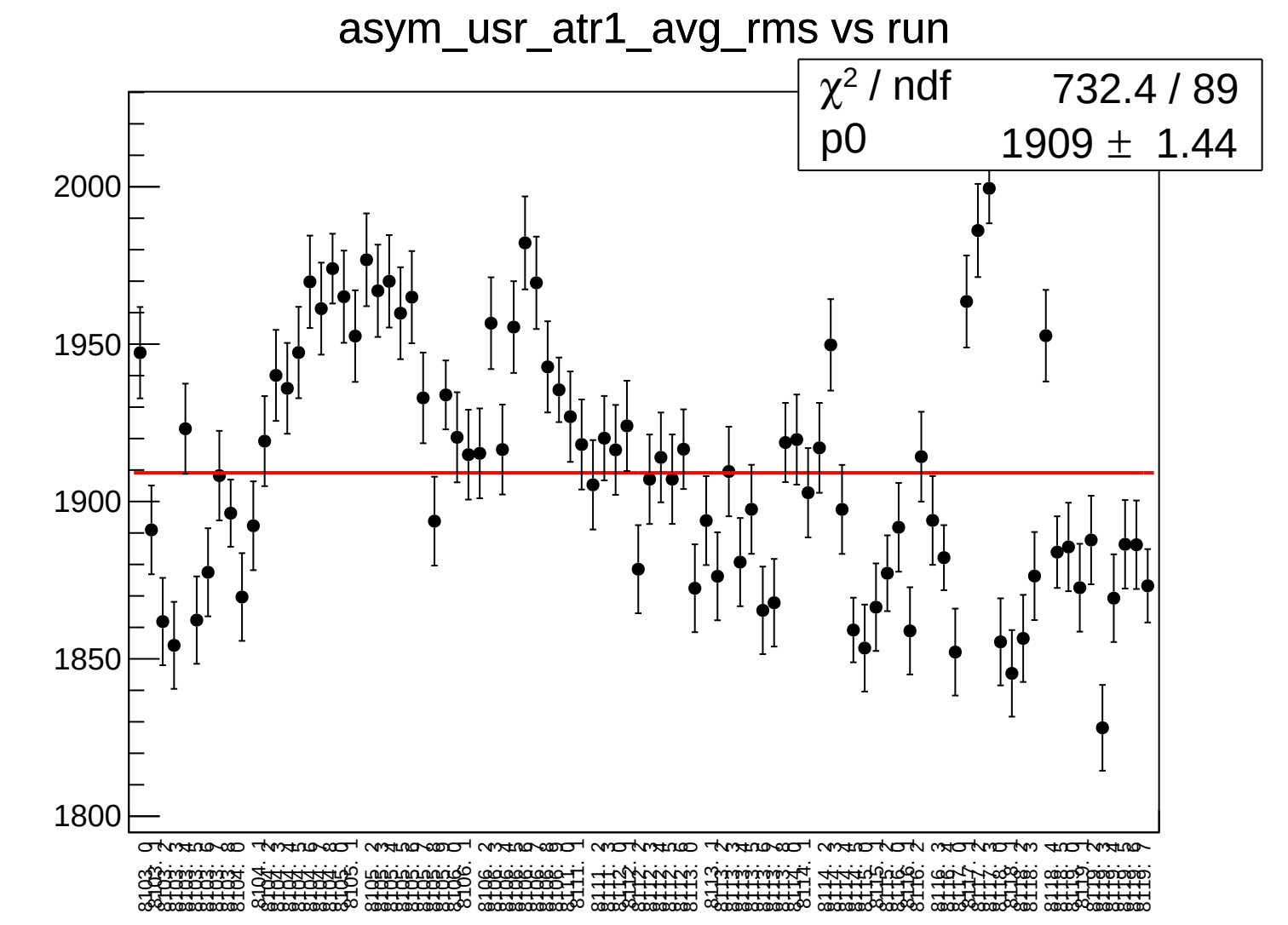

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.9 / 89
p0 1306 ± 1152
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1249
Std Dev 0
2
1
0
−1
−2
−3

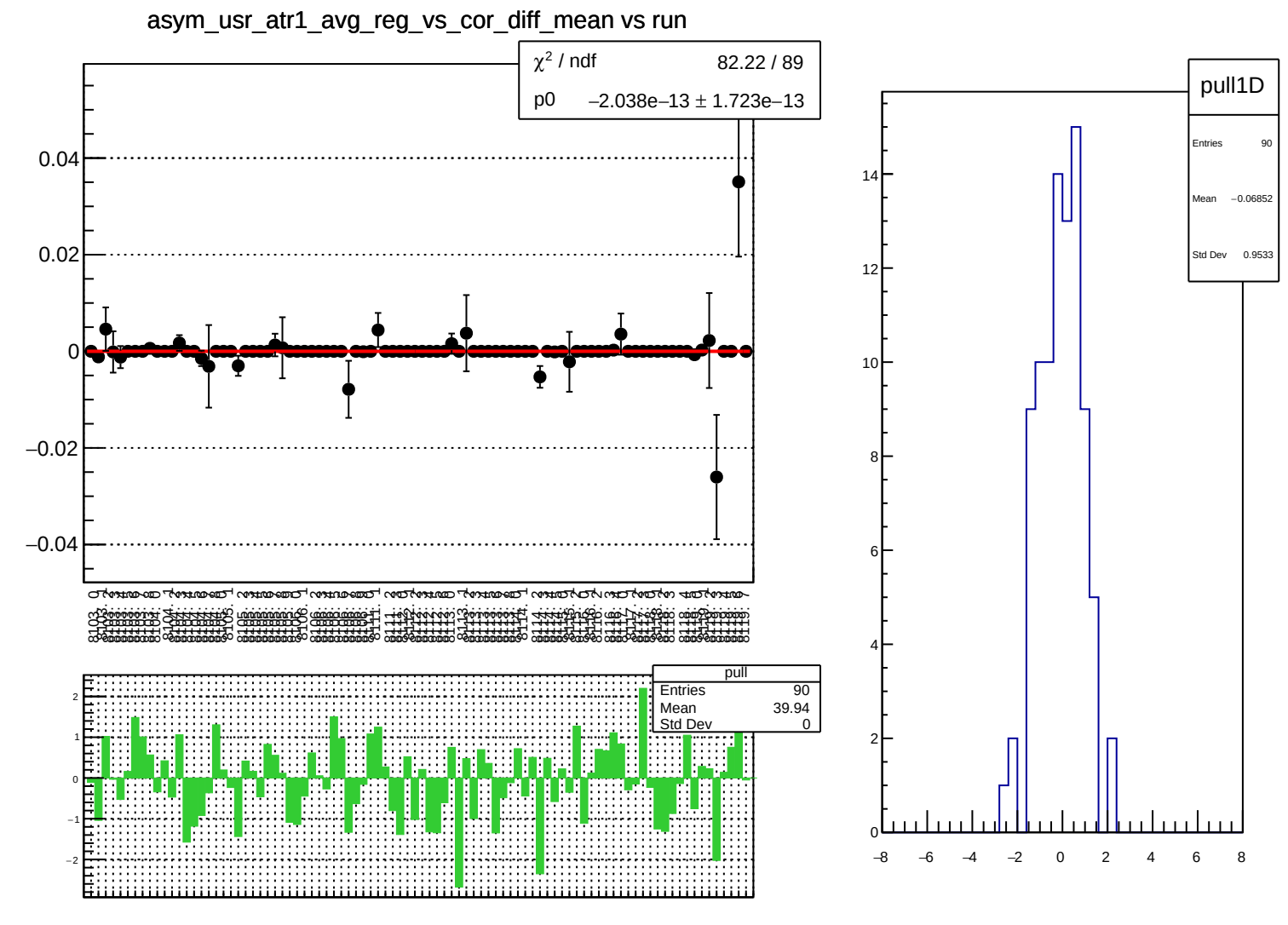

pull1D
Entries 90
Mean 0.006191
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

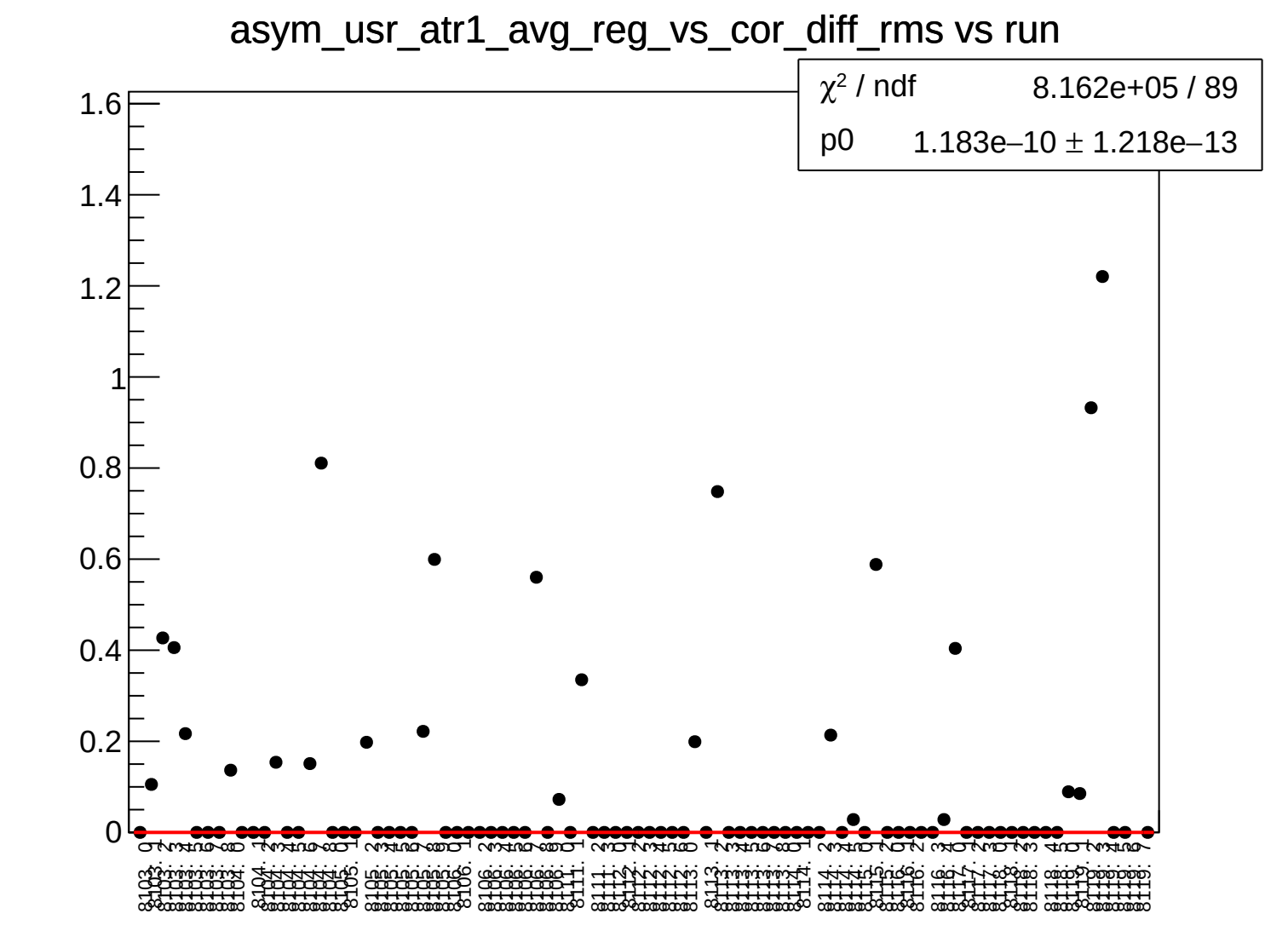

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2964 / 89
p0 1079 ± 0.8145
1250
1200
1150
1100
1050
1000

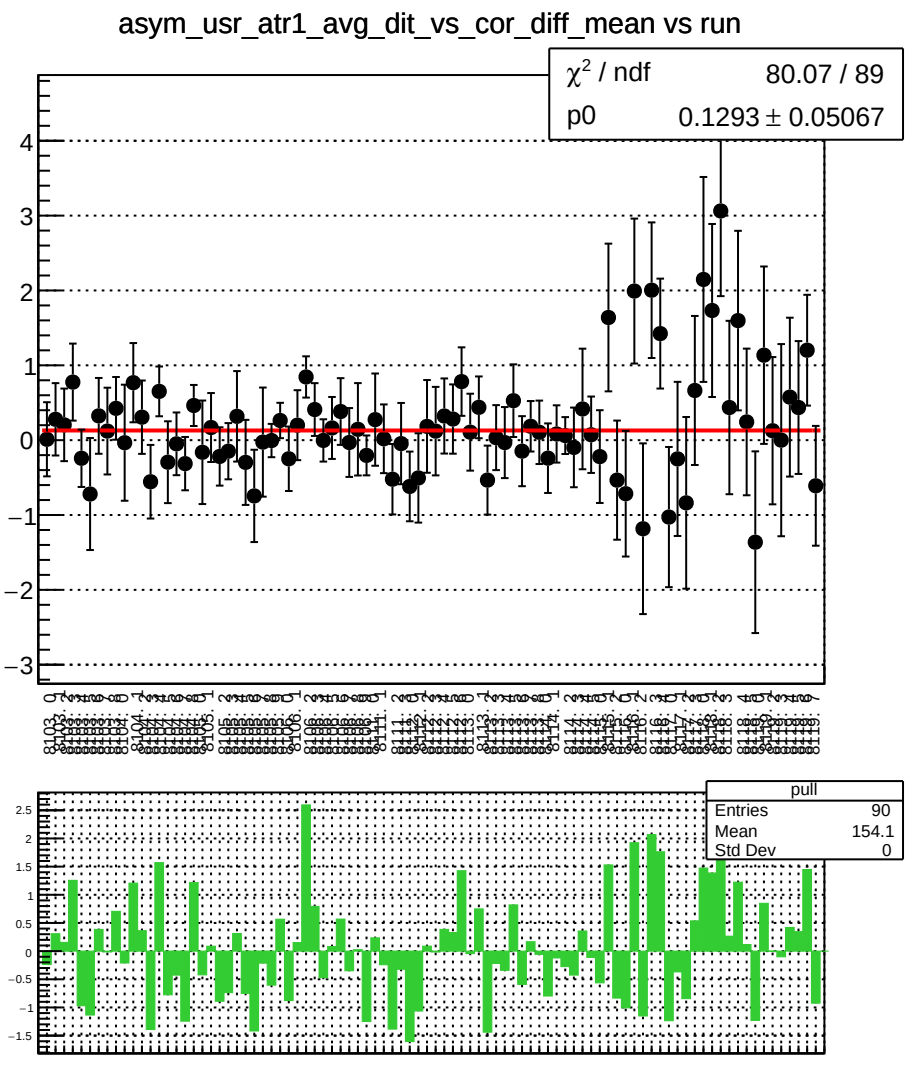

asym_usr_atr1_avg_mean vs run
χ² / ndf 86.96 / 89
p0 1043 ± 2036
pull
Entries 90
Mean −298.4
Std Dev 0

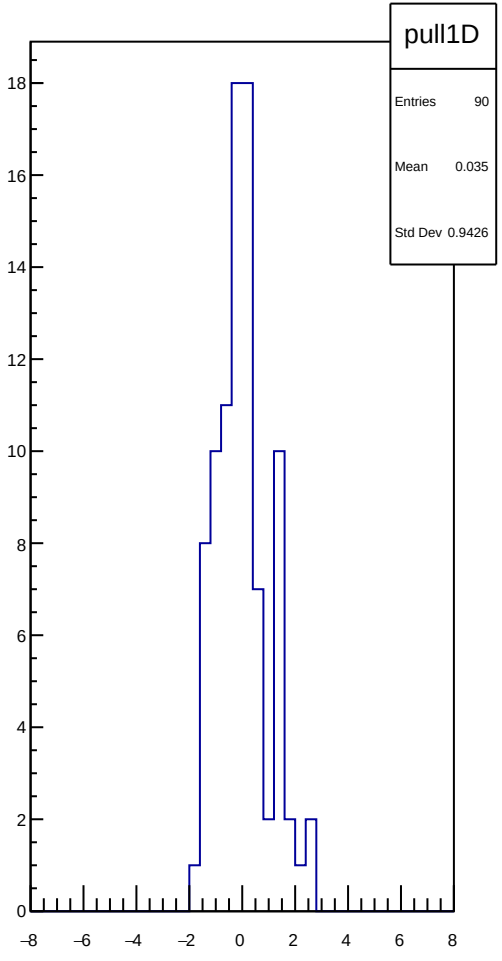

pull1D
Entries 90
Mean 0.02024
Std Dev 0.9828

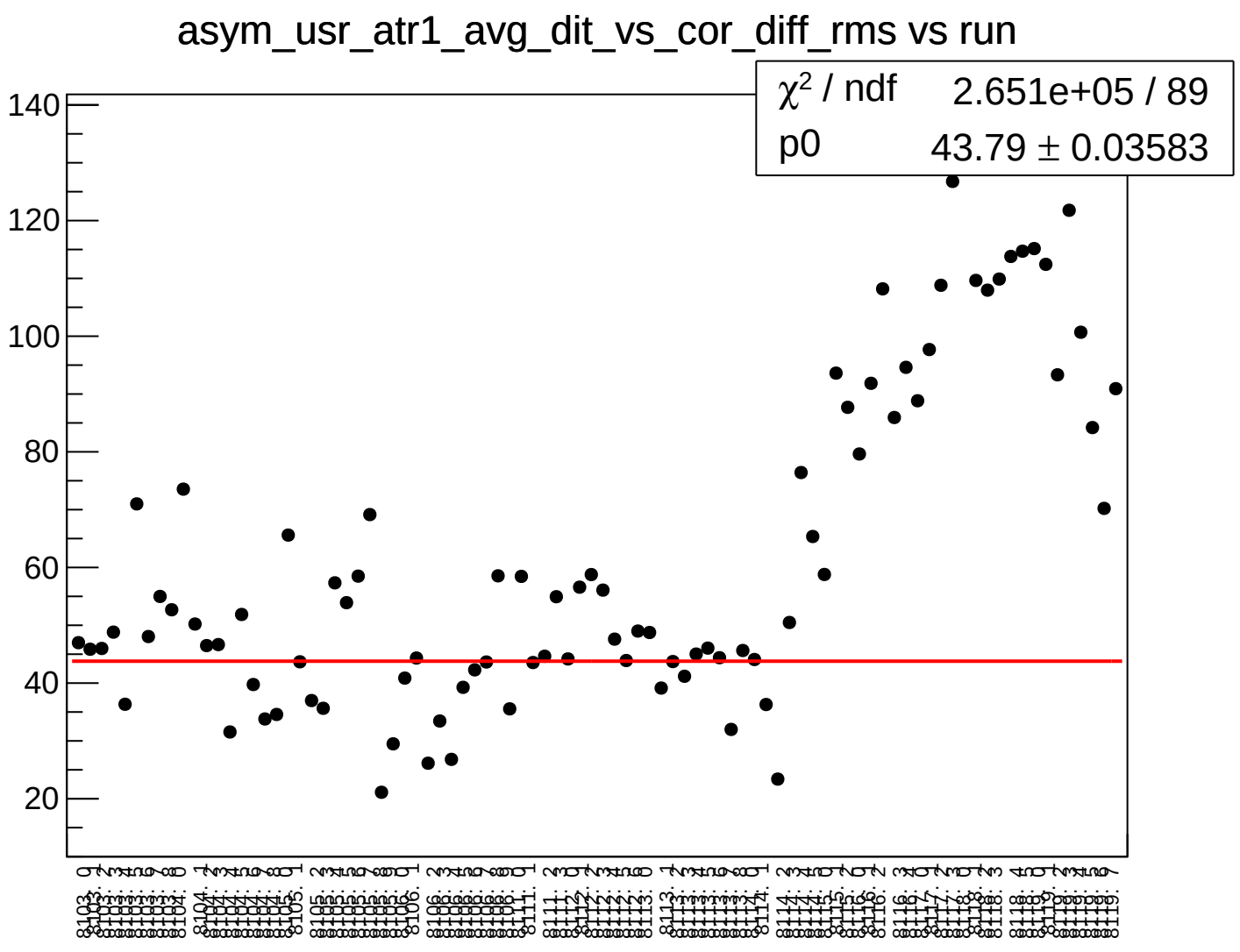

asym_usr_atr1_avg_rms vs run
χ² / ndf 732.4 / 89
p0 1909 ± 1.44
2000
1950
1900
1850
1800

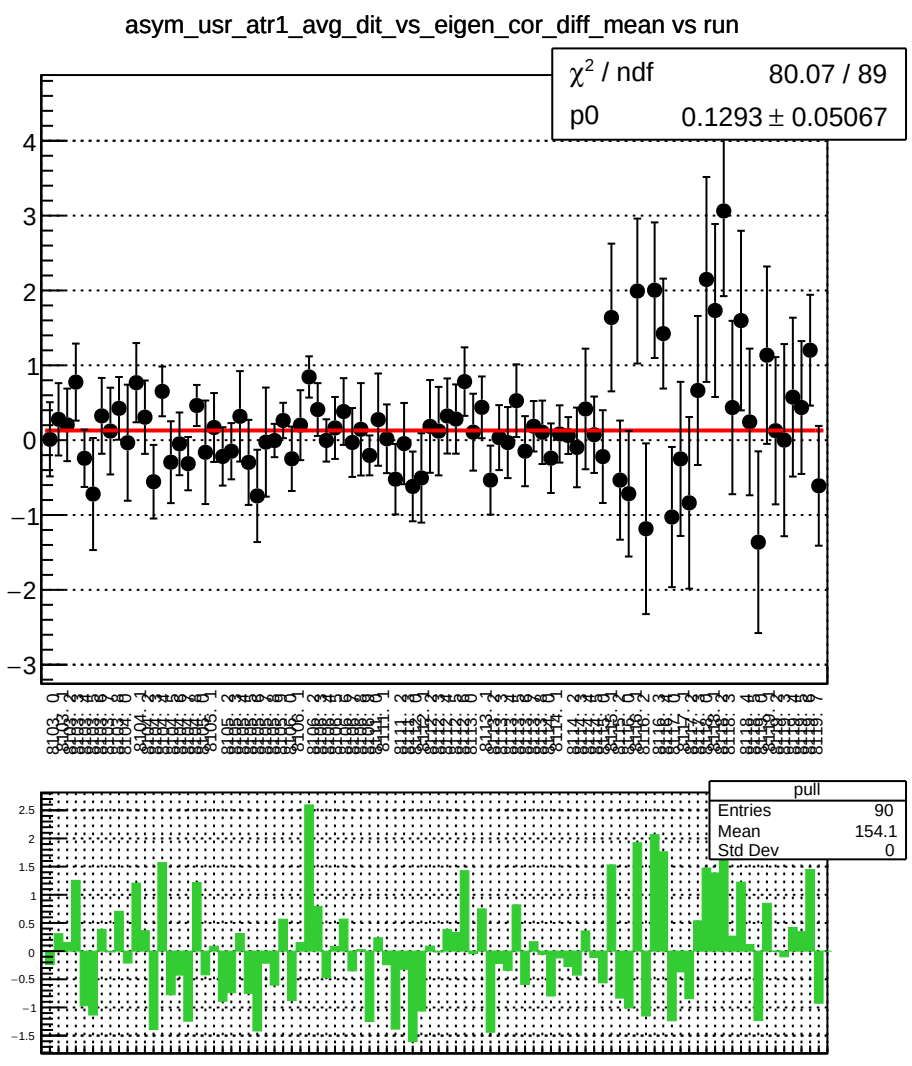

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 89
p0 −2.038e−13 ± 1.723e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 90
Mean 39.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.06852
Std Dev 0.9533
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

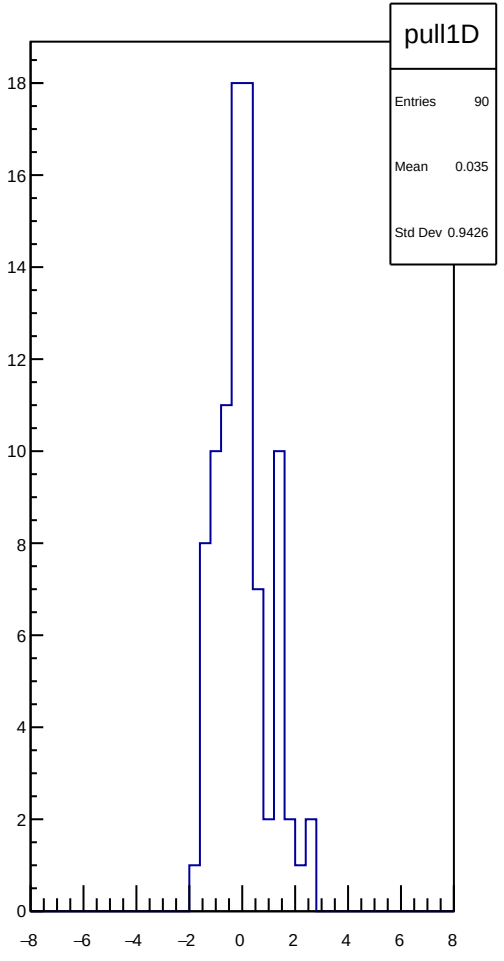

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.162e+05 / 89
p0 1.183e−10 ± 1.218e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

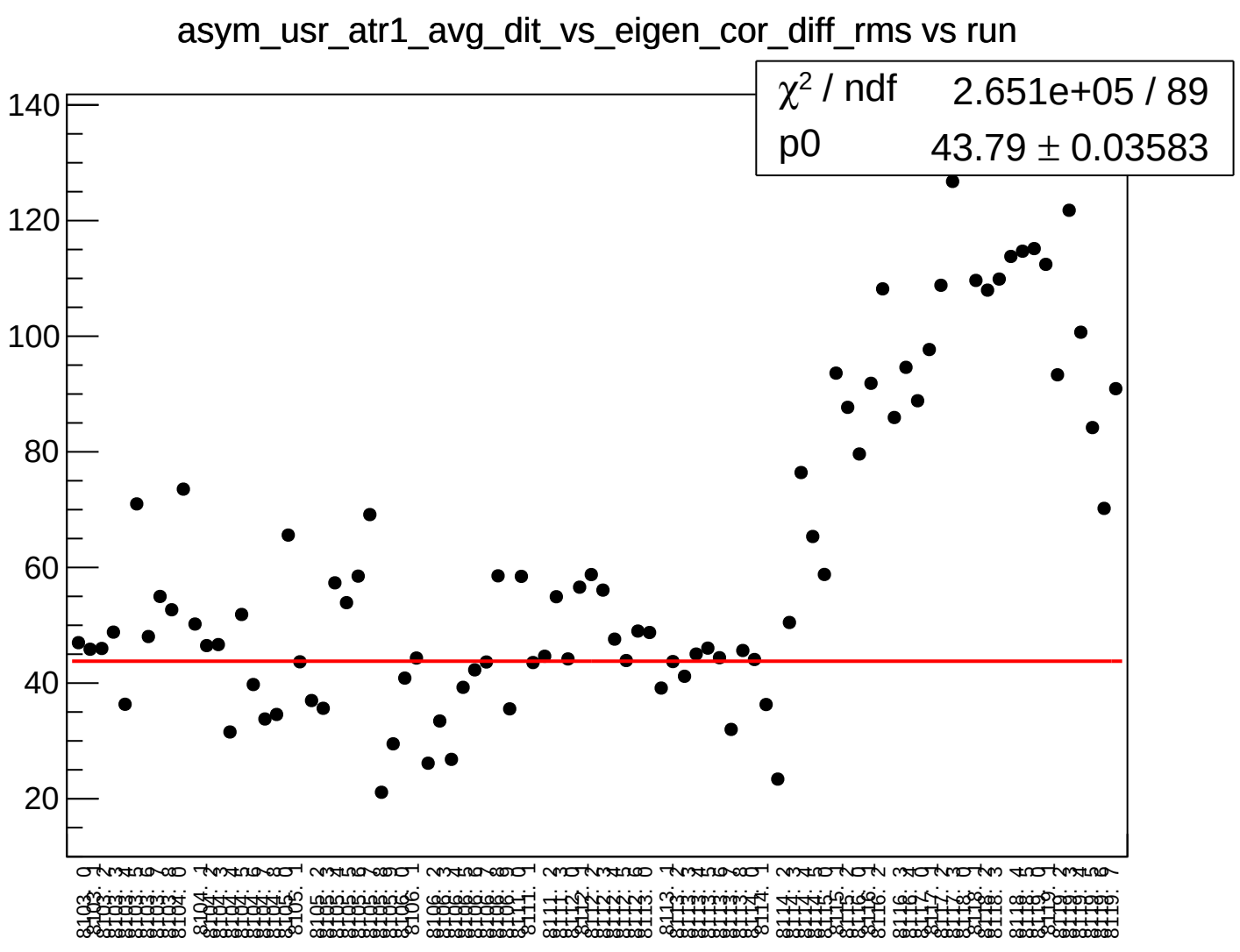

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.07 / 89
p0 0.1293 ± 0.05067
pull
Entries 90
Mean 154.1
Std Dev 0

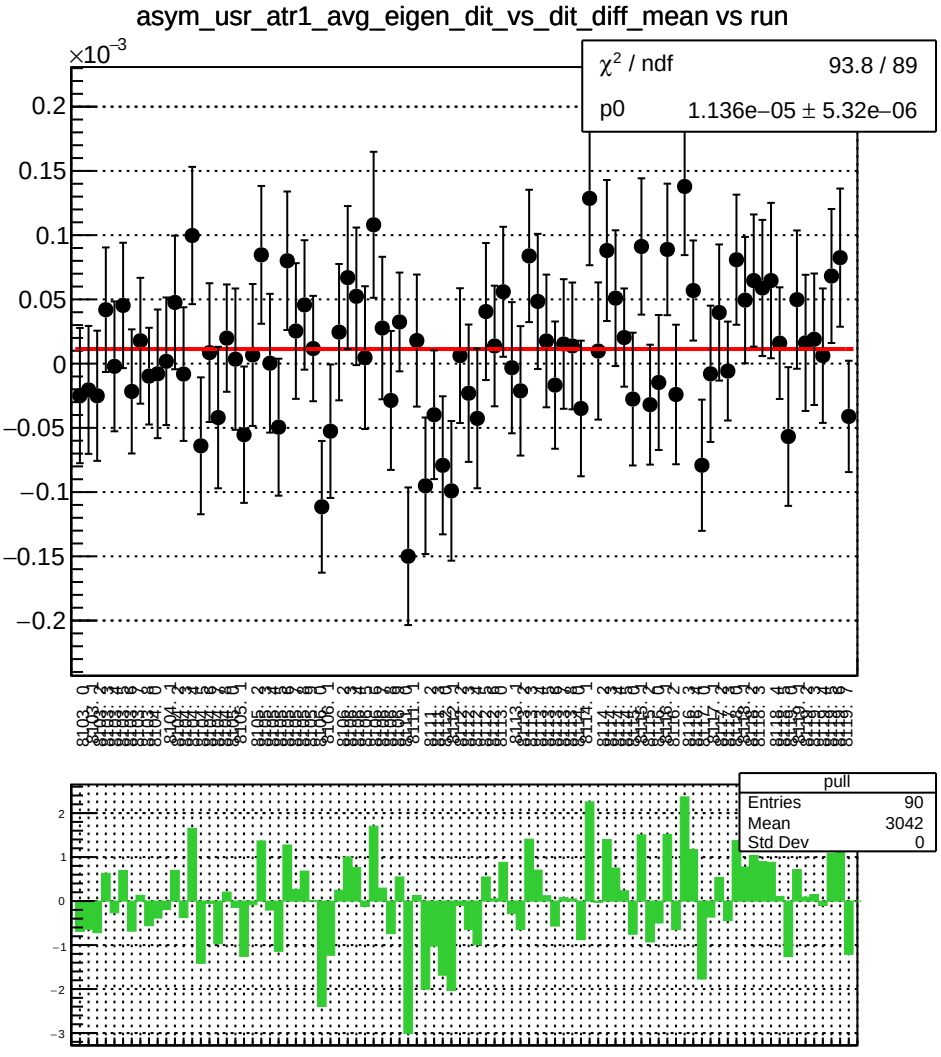

pull1D
Entries 90
Mean 0.035
Std Dev 0.9426

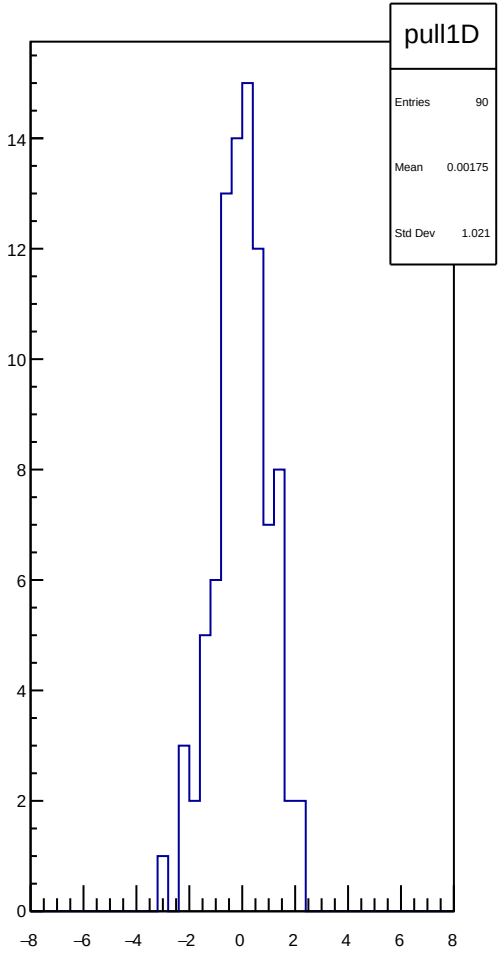

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.651e+05 / 89
p0 43.79 ± 0.03583
140
120
100
80
60
40
20

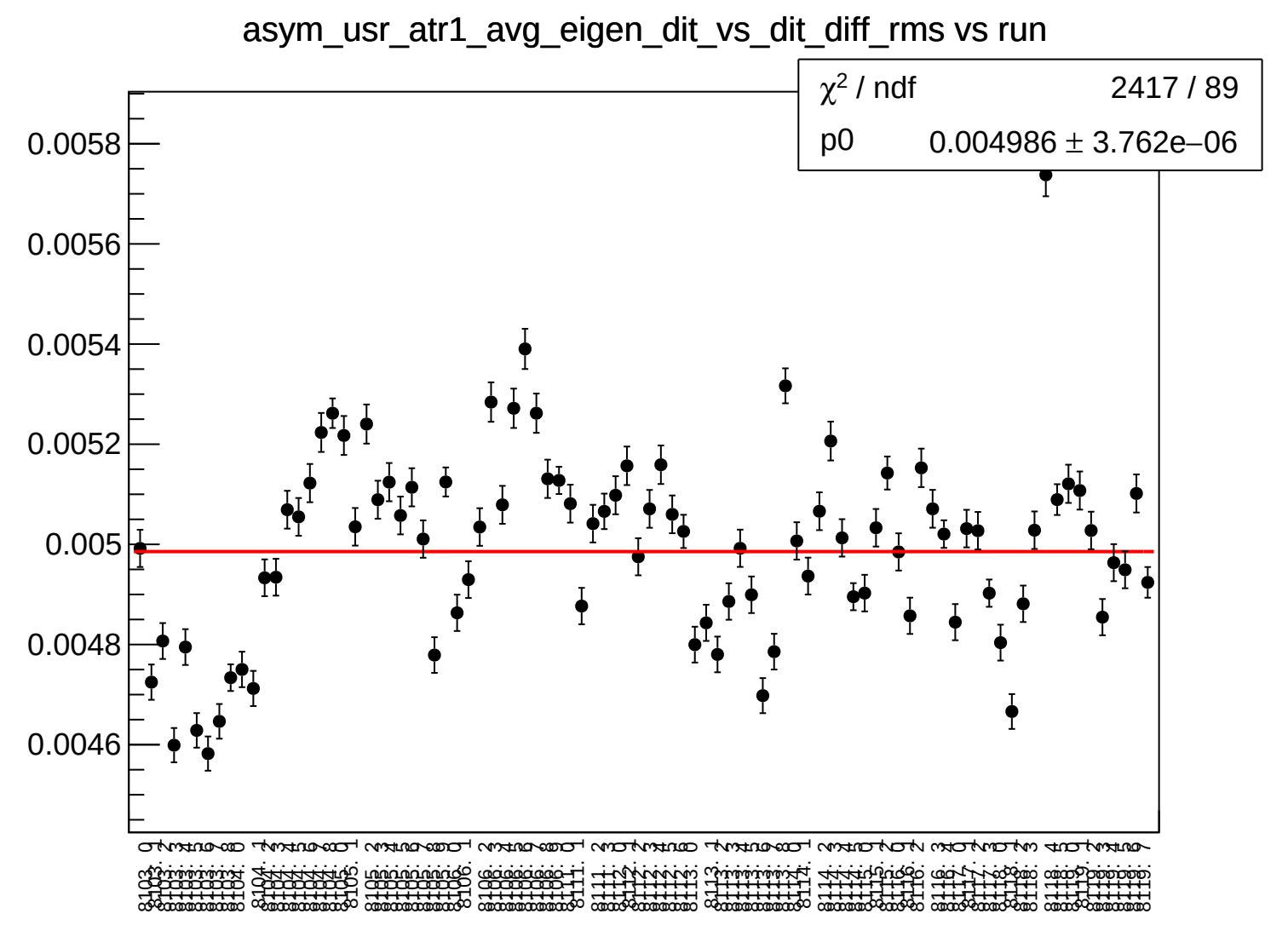

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.07 / 89
p0 0.1293 ± 0.05067
pull
Entries 90
Mean 154.1
Std Dev 0

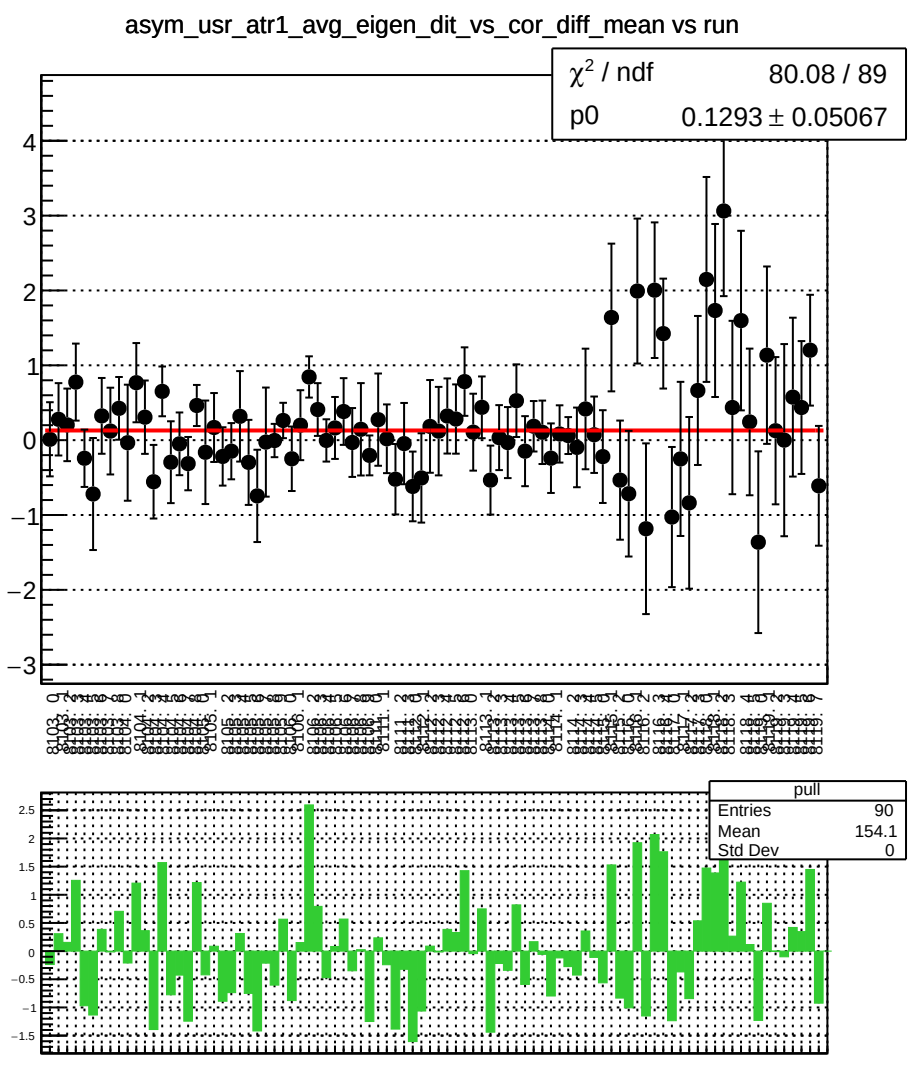

pull1D
Entries 90
Mean 0.035
Std Dev 0.9426

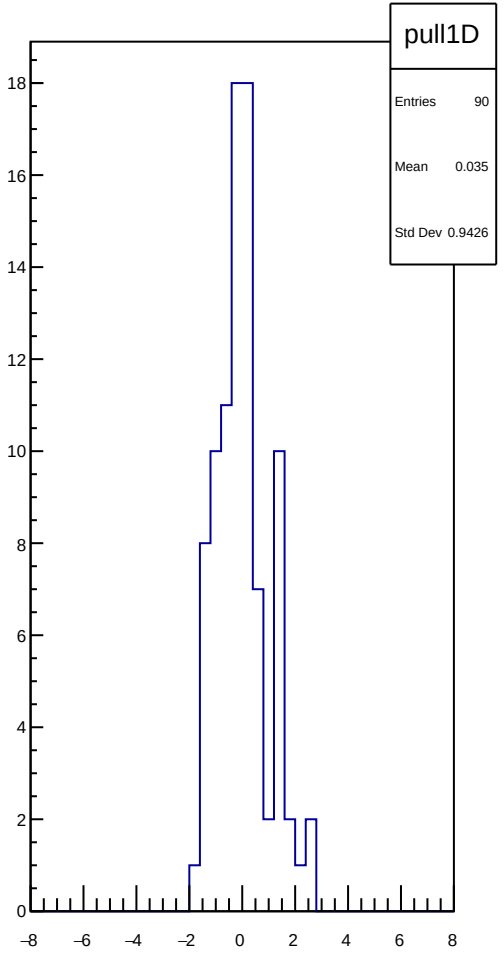

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.651e+05 / 89
p0 43.79 ± 0.03583
140
120
100
80
60
40
20

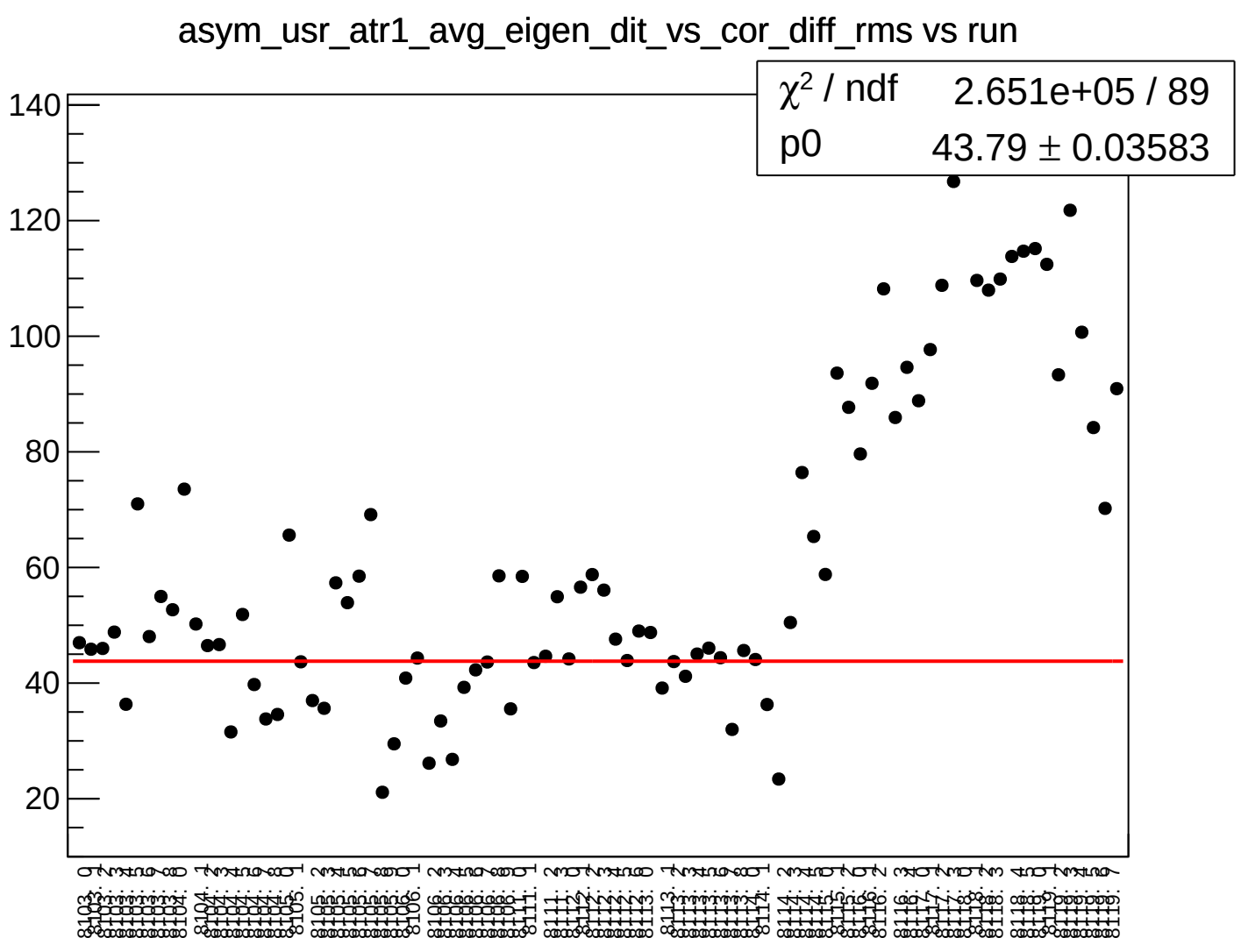

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.8 / 89
p0 1.136e−05 ± 5.32e−06
pull
Entries 90
Mean 3042
Std Dev 0

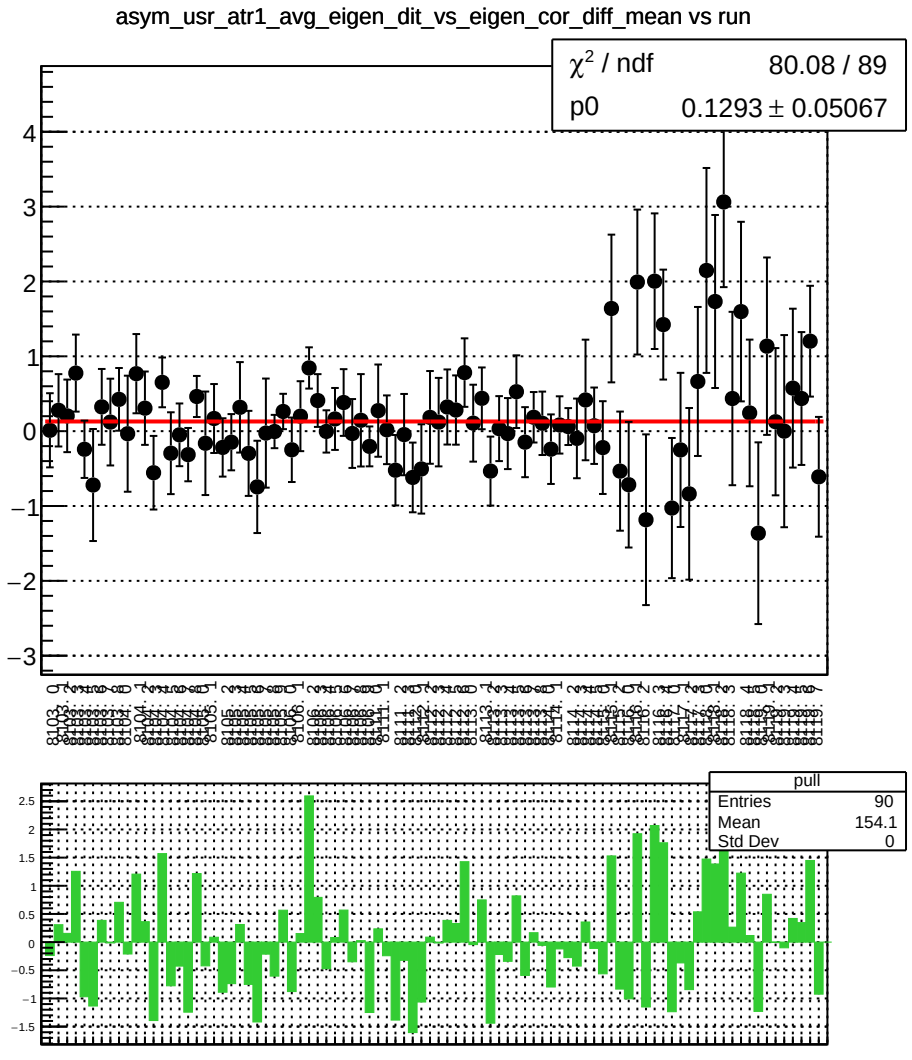

pull1D
Entries 90
Mean 0.00175
Std Dev 1.021

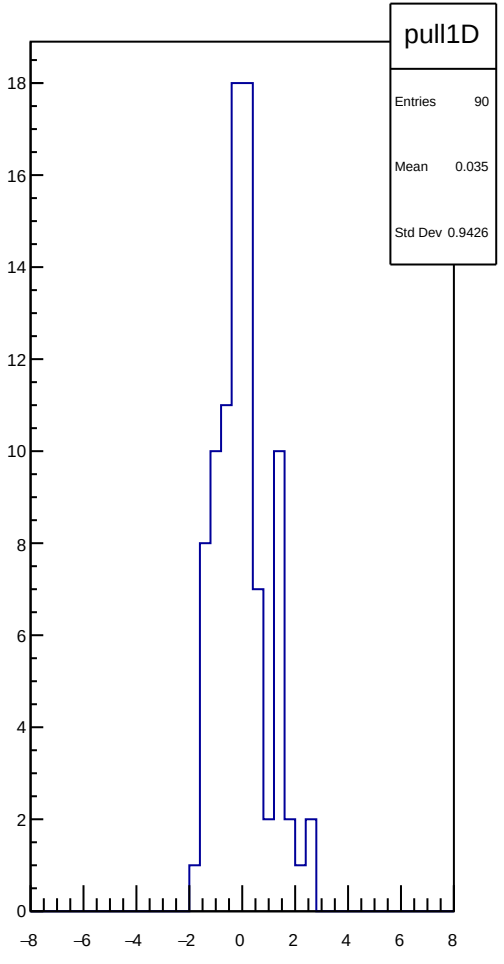

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2417 / 89
p0 0.004986 ± 3.762e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

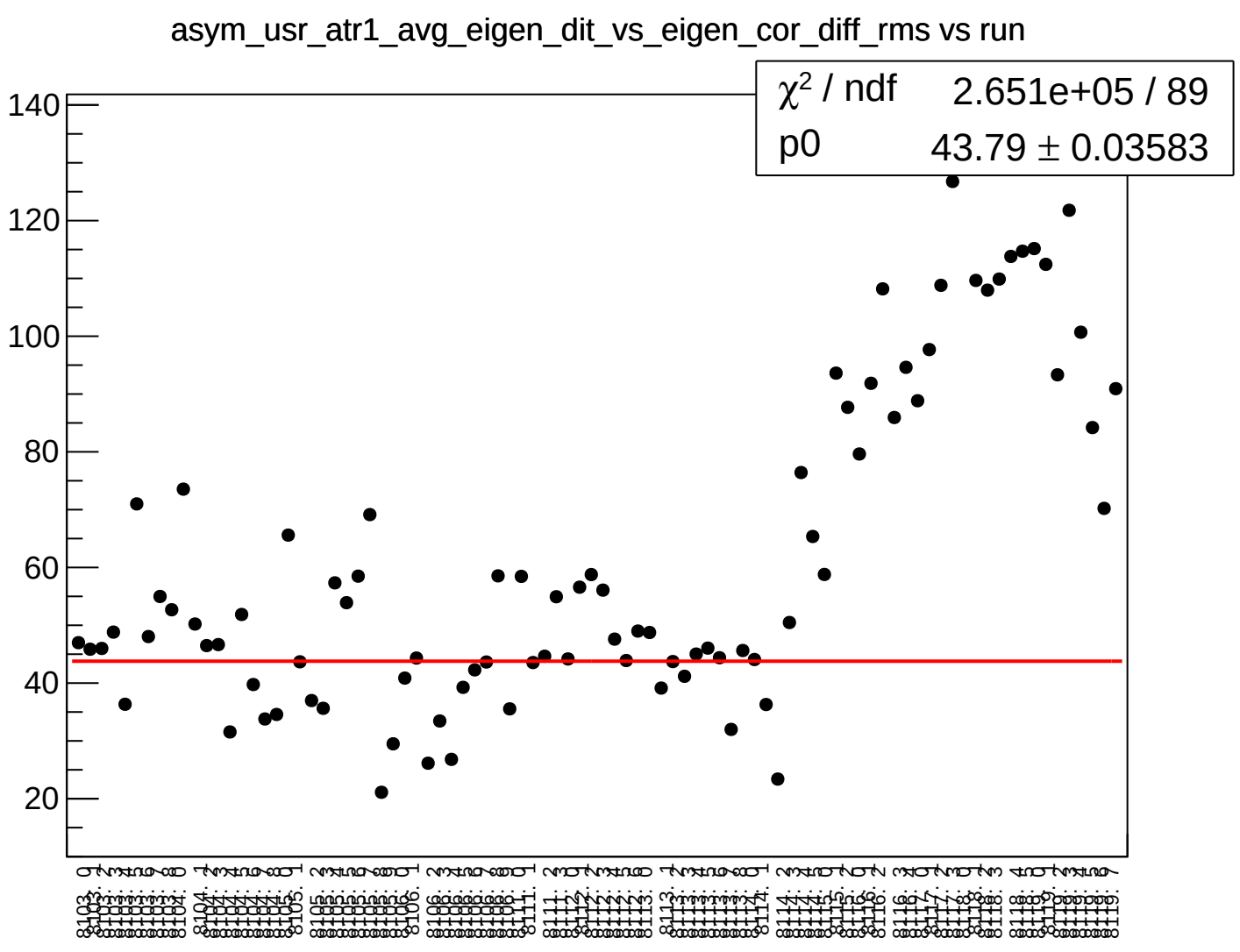

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.08 / 89
p0 0.1293 ± 0.05067
pull
Entries 90
Mean 154.1
Std Dev 0

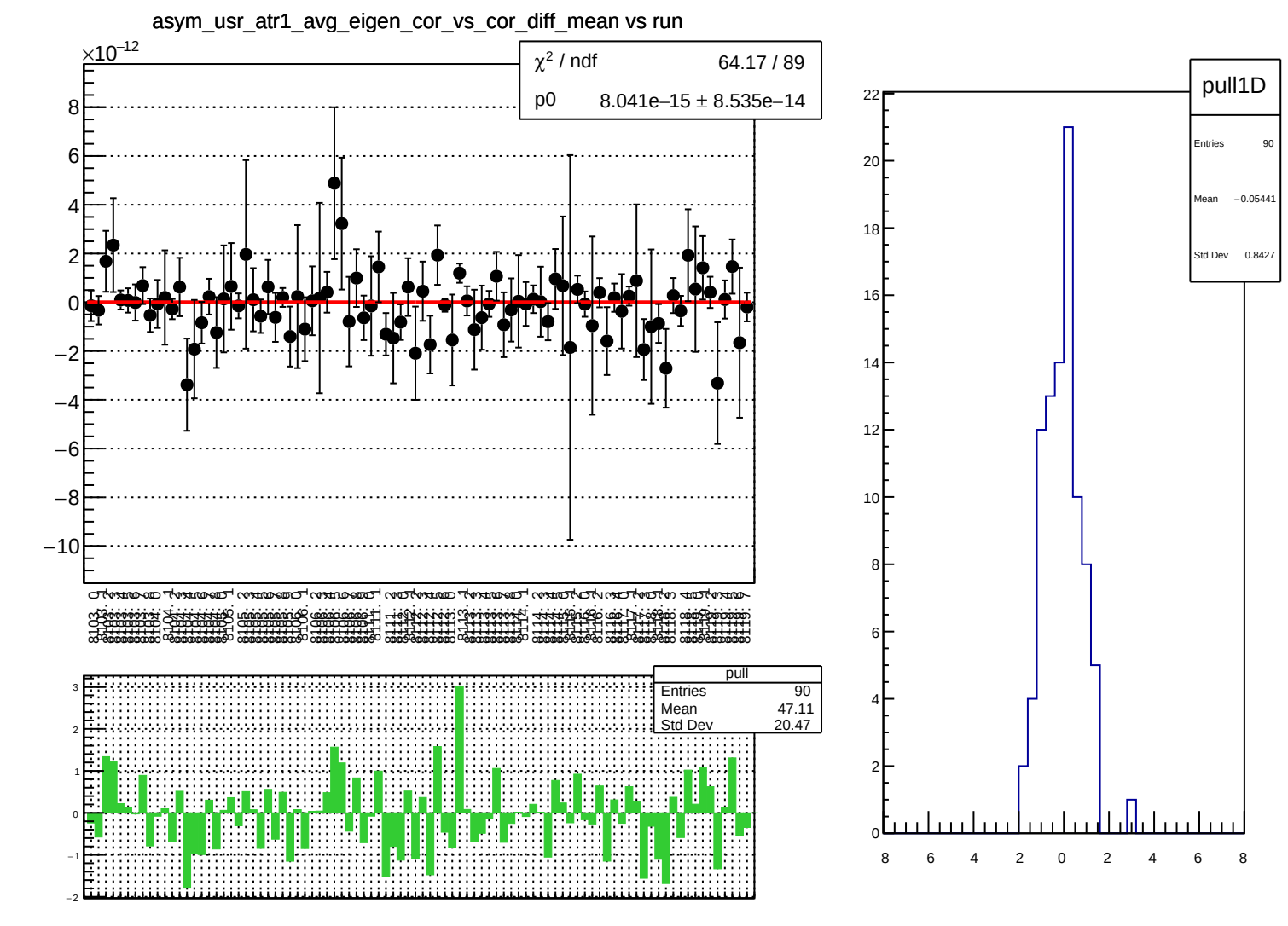

pull1D
Entries 90
Mean 0.035
Std Dev 0.9426

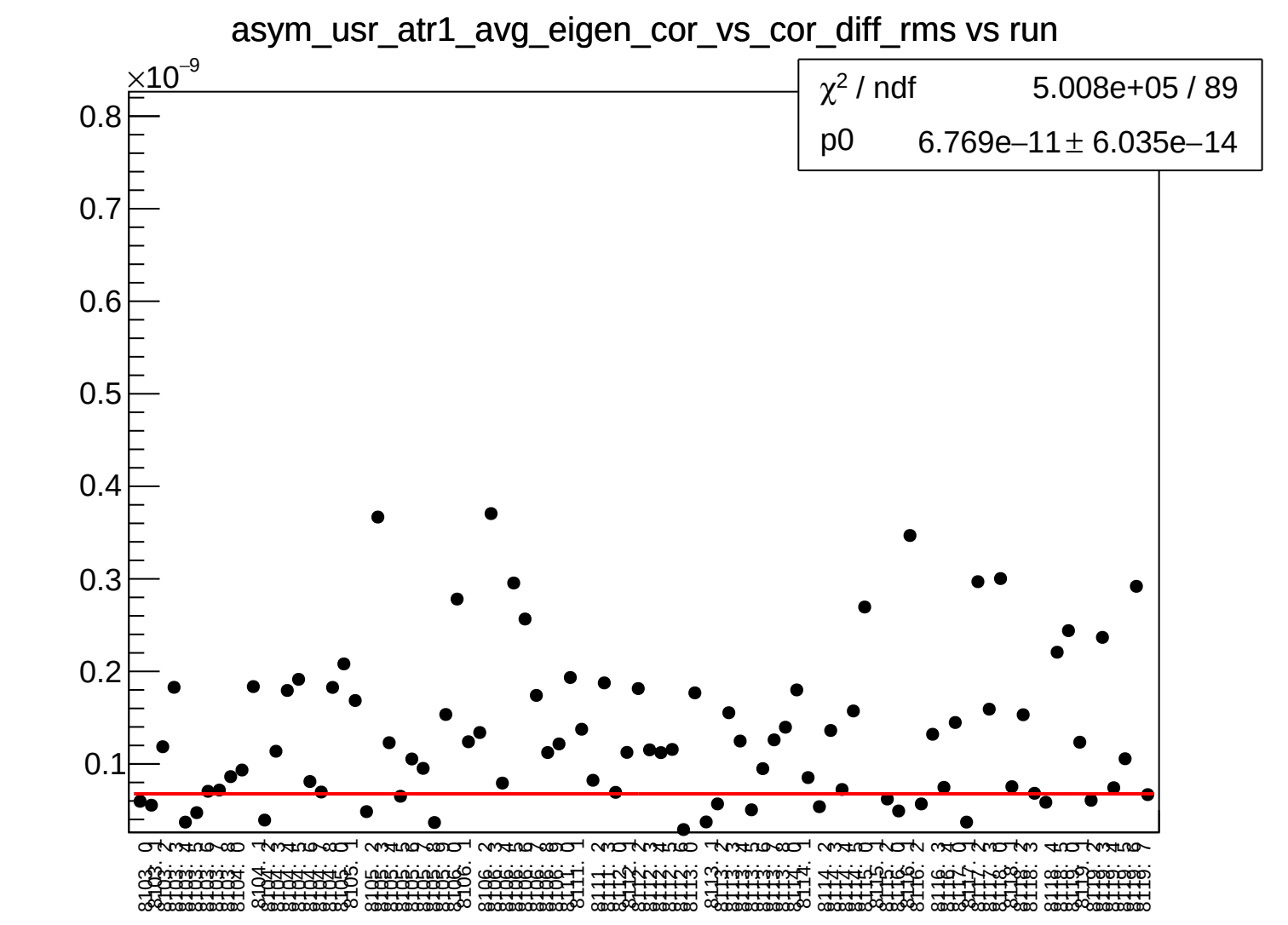

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.651e+05 / 89
p0 43.79 ± 0.03583
140
120
100
80
60
40
20

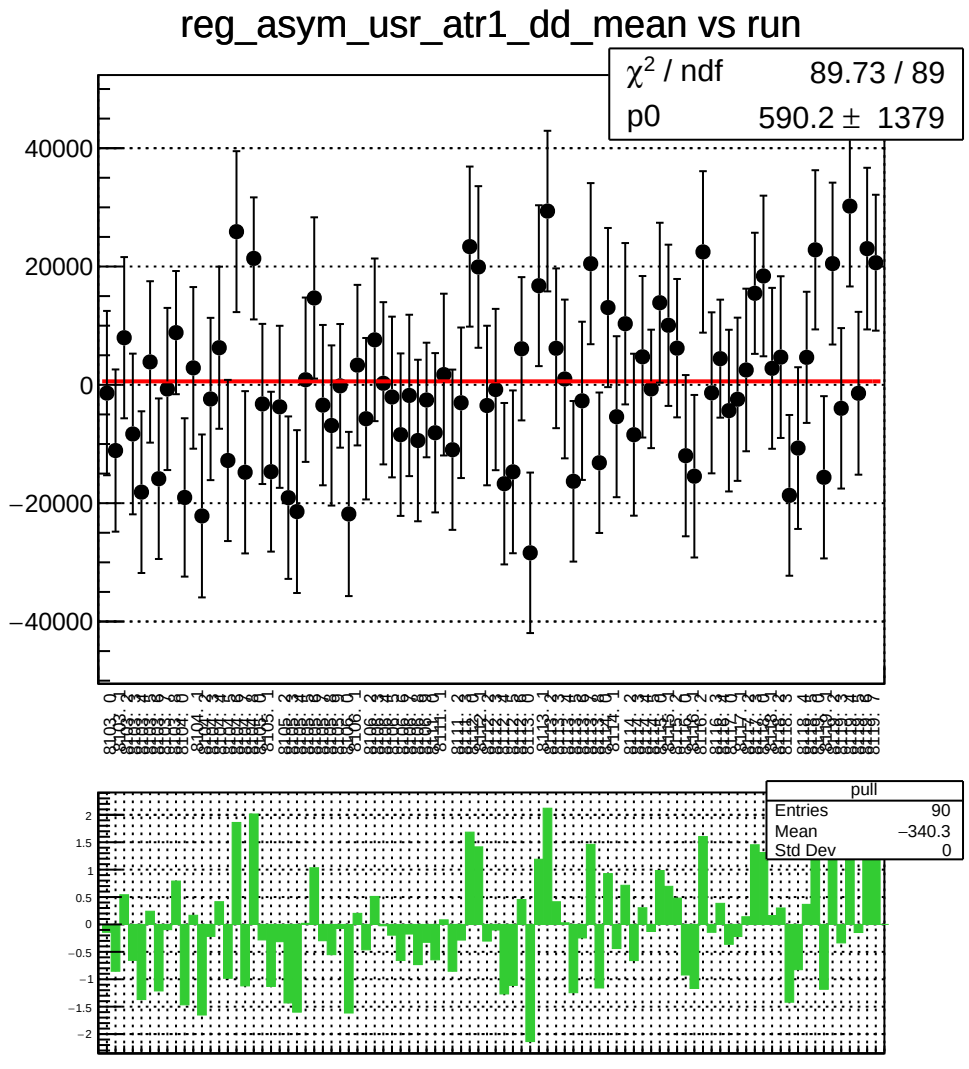

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.08 / 89
p0 0.1293 ± 0.05067
pull
Entries 90
Mean 154.1
Std Dev 0

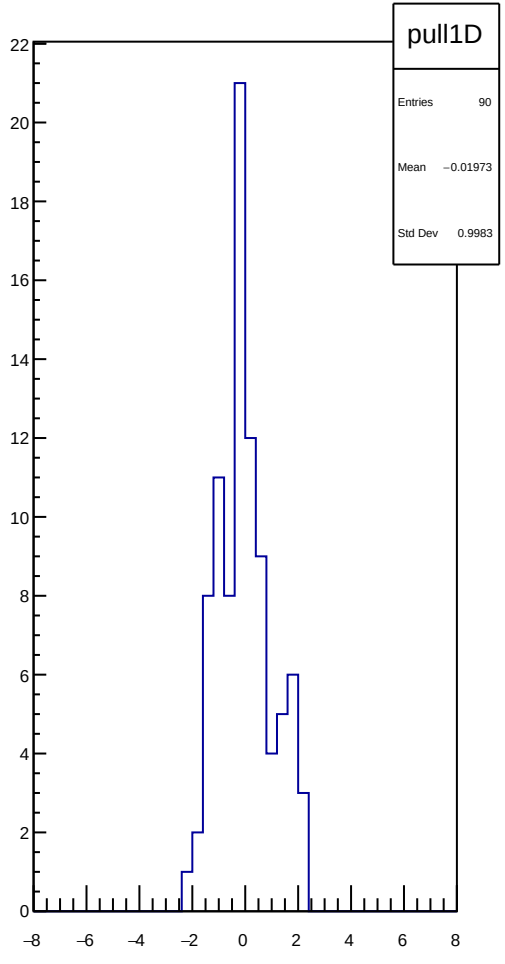

pull1D
Entries 90
Mean 0.035
Std Dev 0.9426

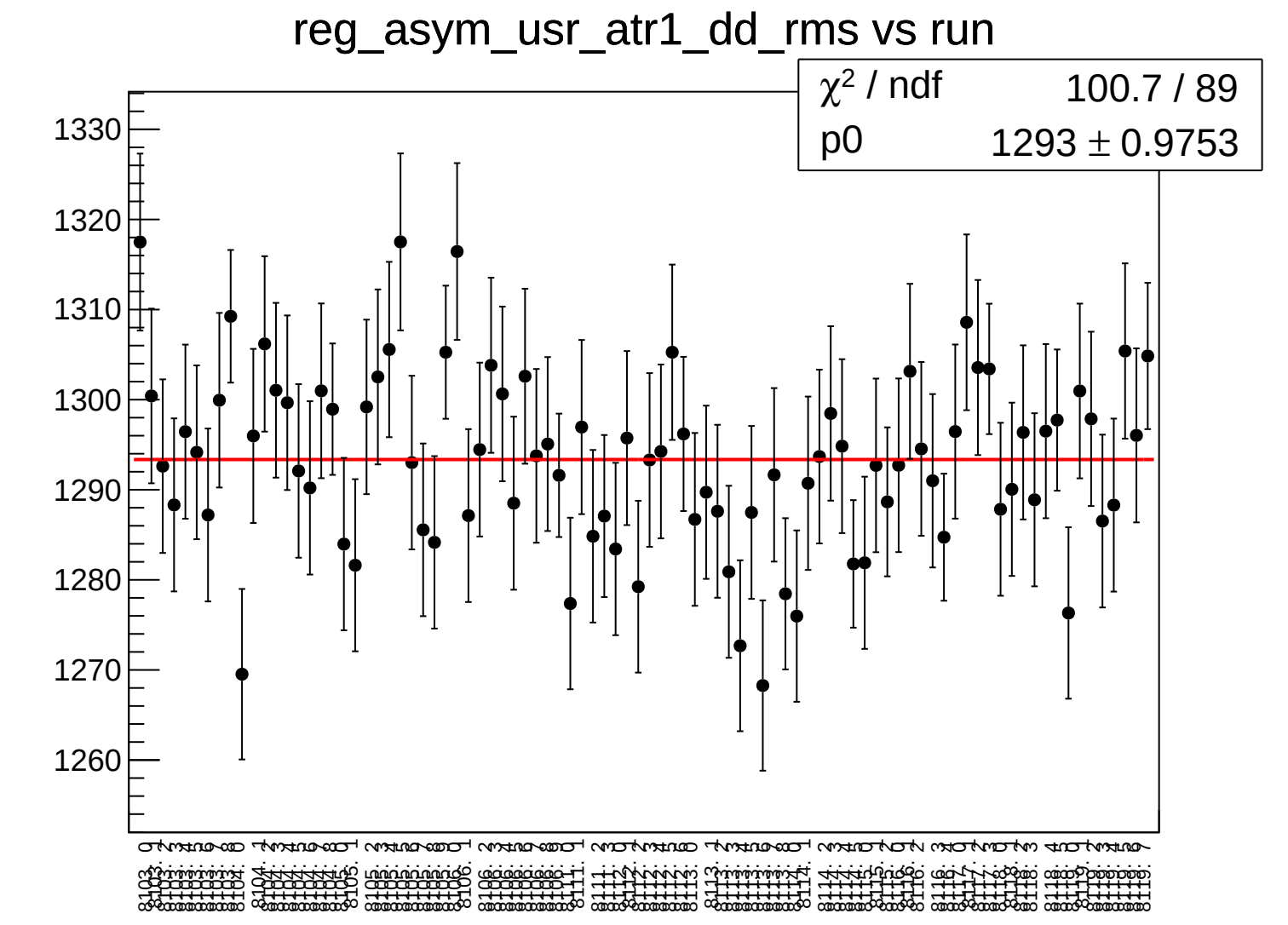

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.651e+05 / 89
p0 43.79 ± 0.03583
140
120
100
80
60
40
20

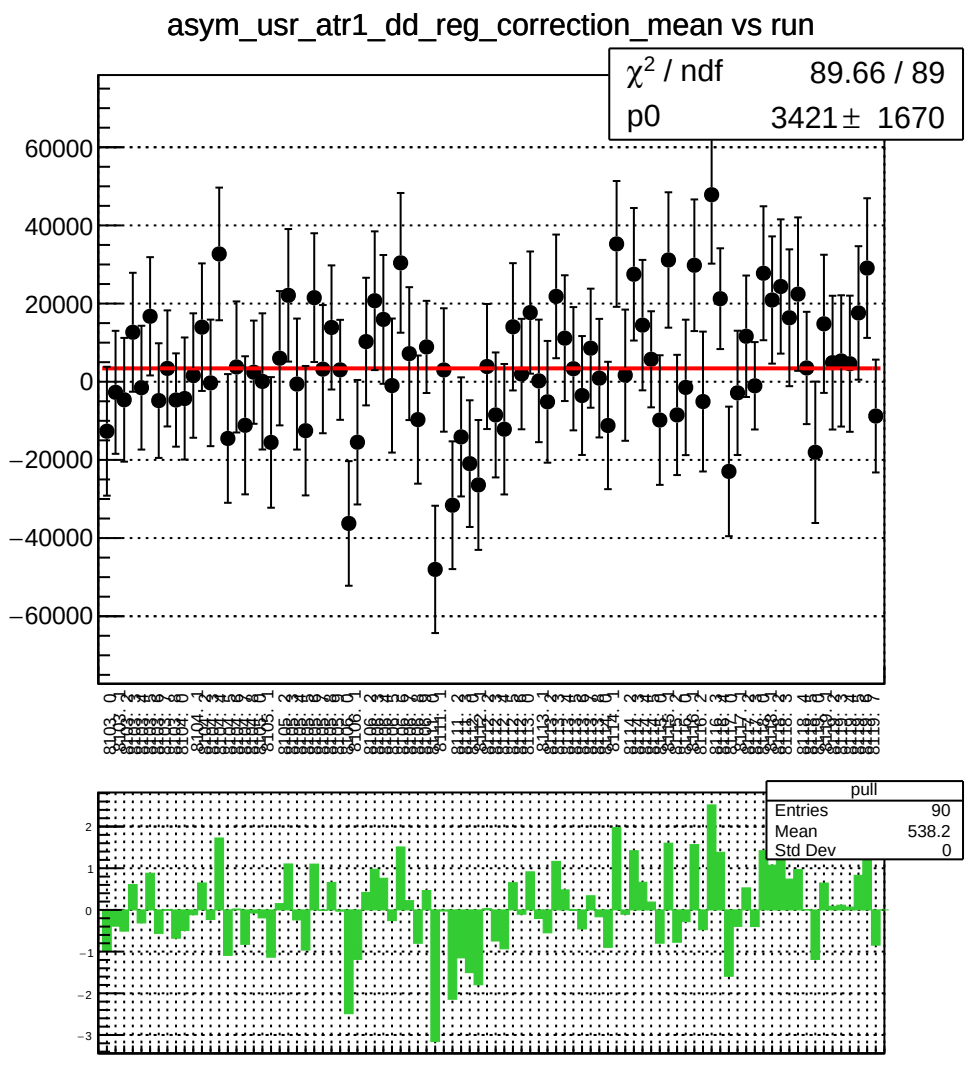

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 64.17 / 89
p0 8.041e−15 ± 8.535e−14
pull
Entries 90
Mean 47.11
Std Dev 20.47
pull1D
Entries 90
Mean −0.05441
Std Dev 0.8427

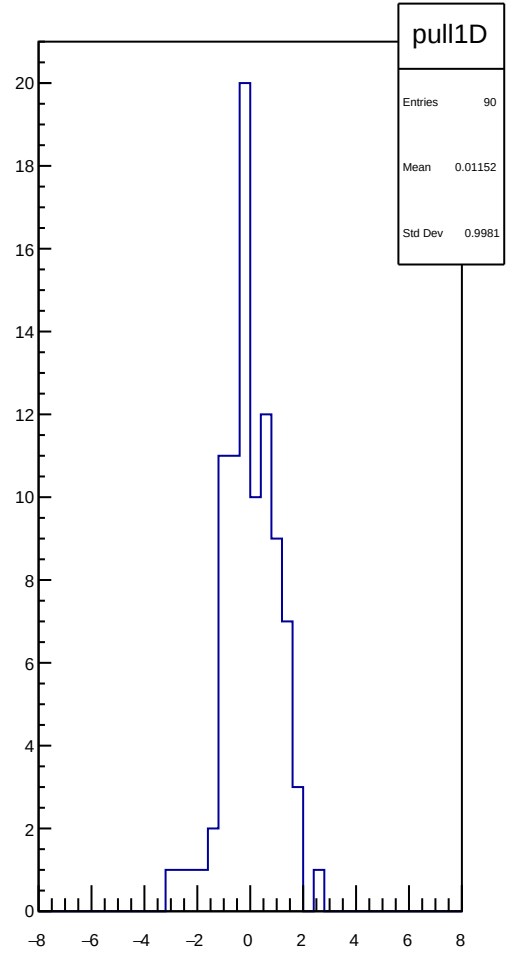

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.008e+05 / 89
p0 6.769e−11 ± 6.035e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

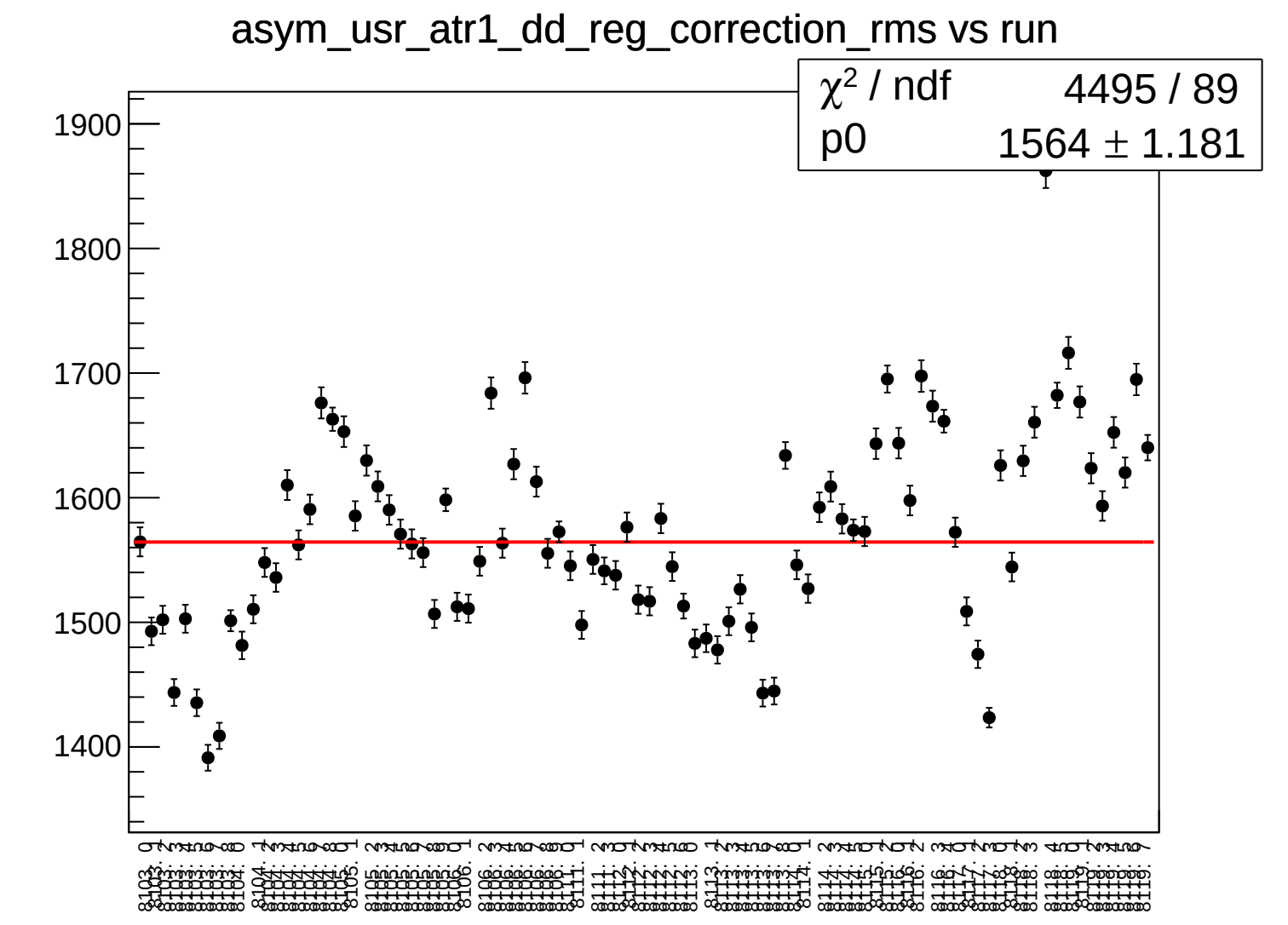

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.73 / 89
p0 590.2 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −340.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

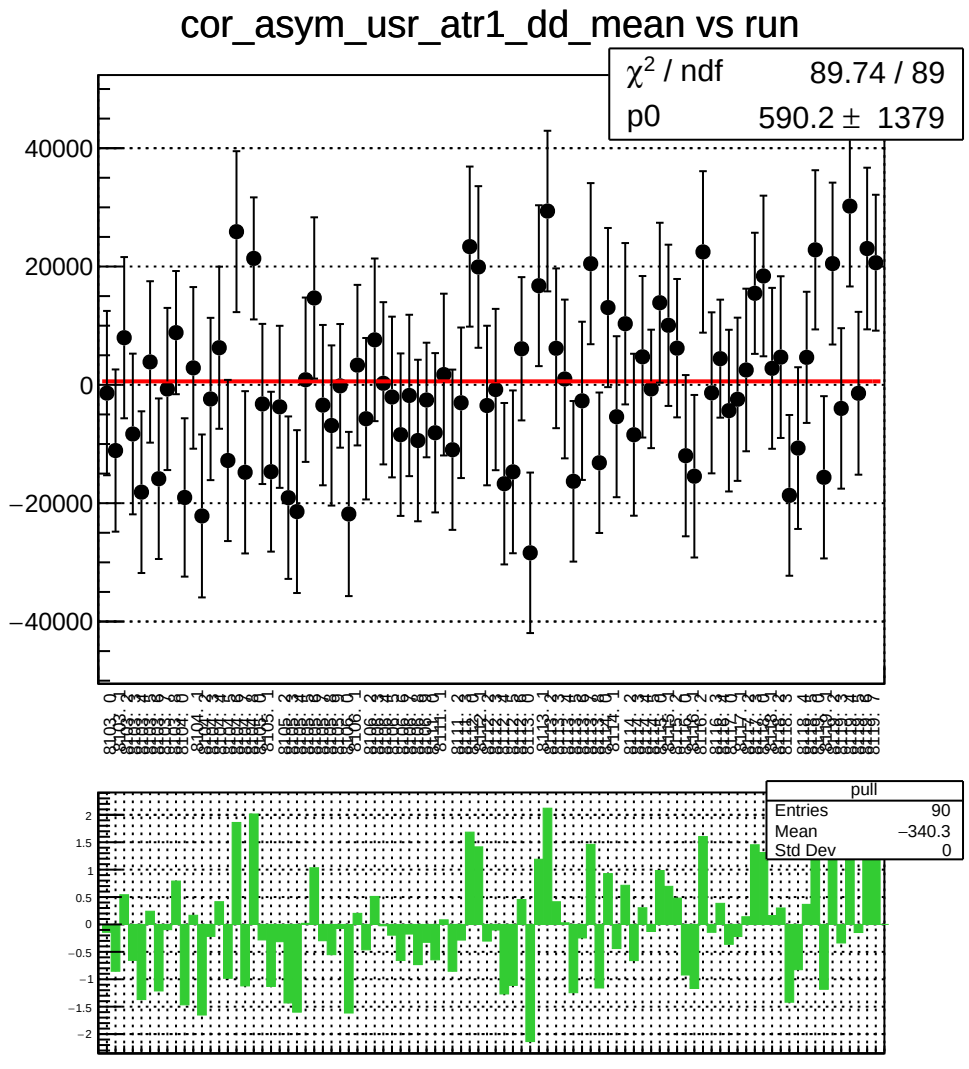

pull1D
Entries 90
Mean −0.01973
Std Dev 0.9983
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

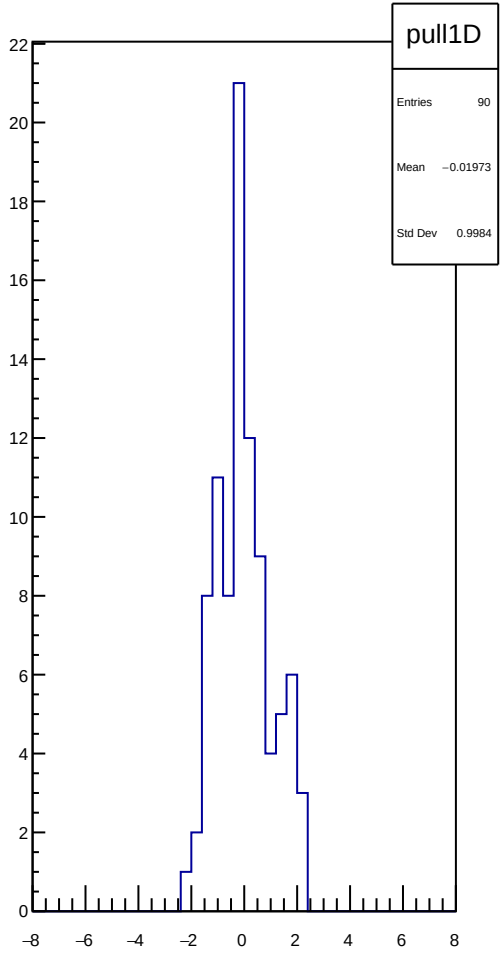

reg_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 100.7 / 89
p0 1293 ± 0.9753
1330
1320
1310
1300
1290
1280
1270
1260

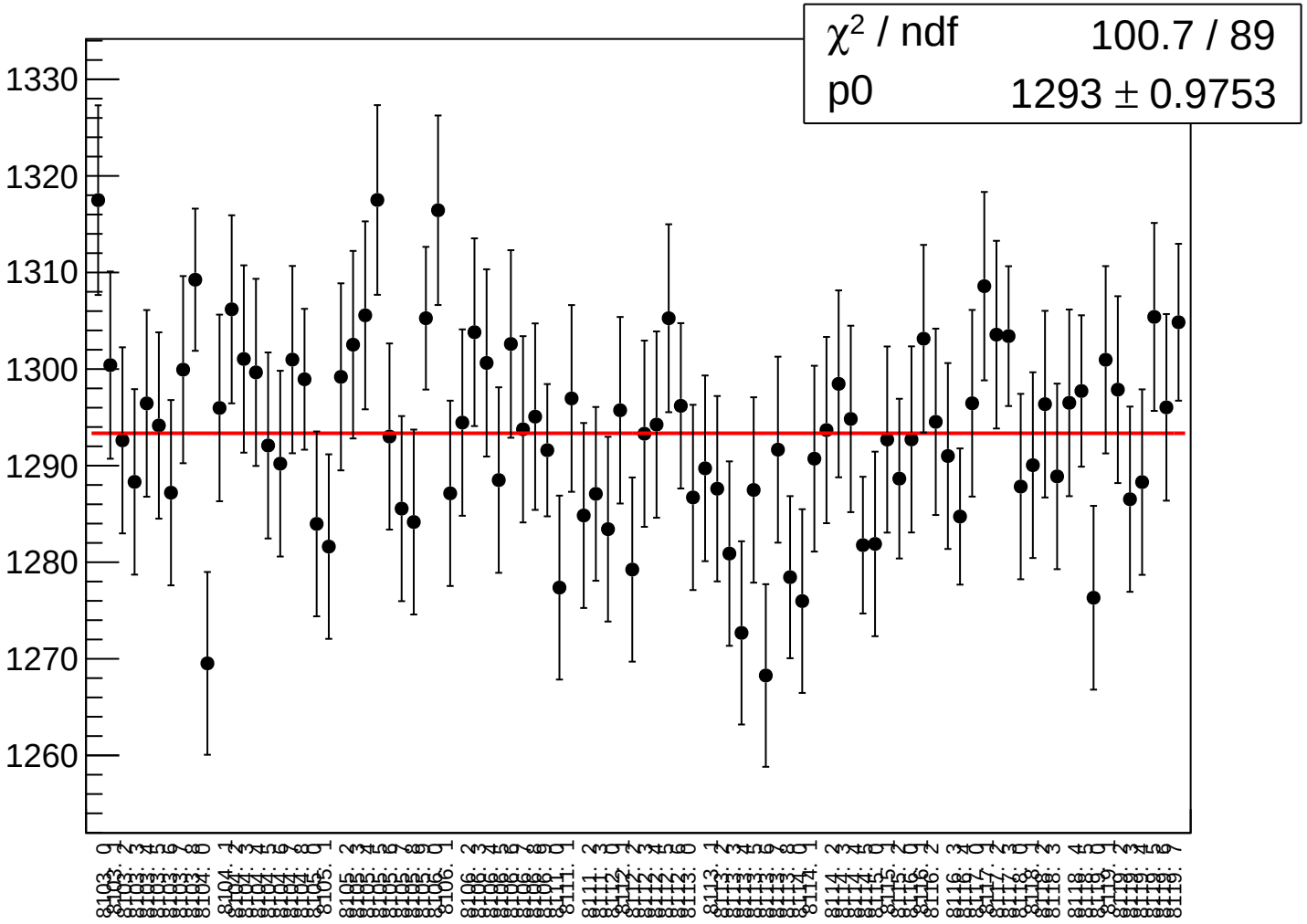

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 89.66 / 89
p0 3421 ± 1670
pull
Entries 90
Mean 538.2
Std Dev 0

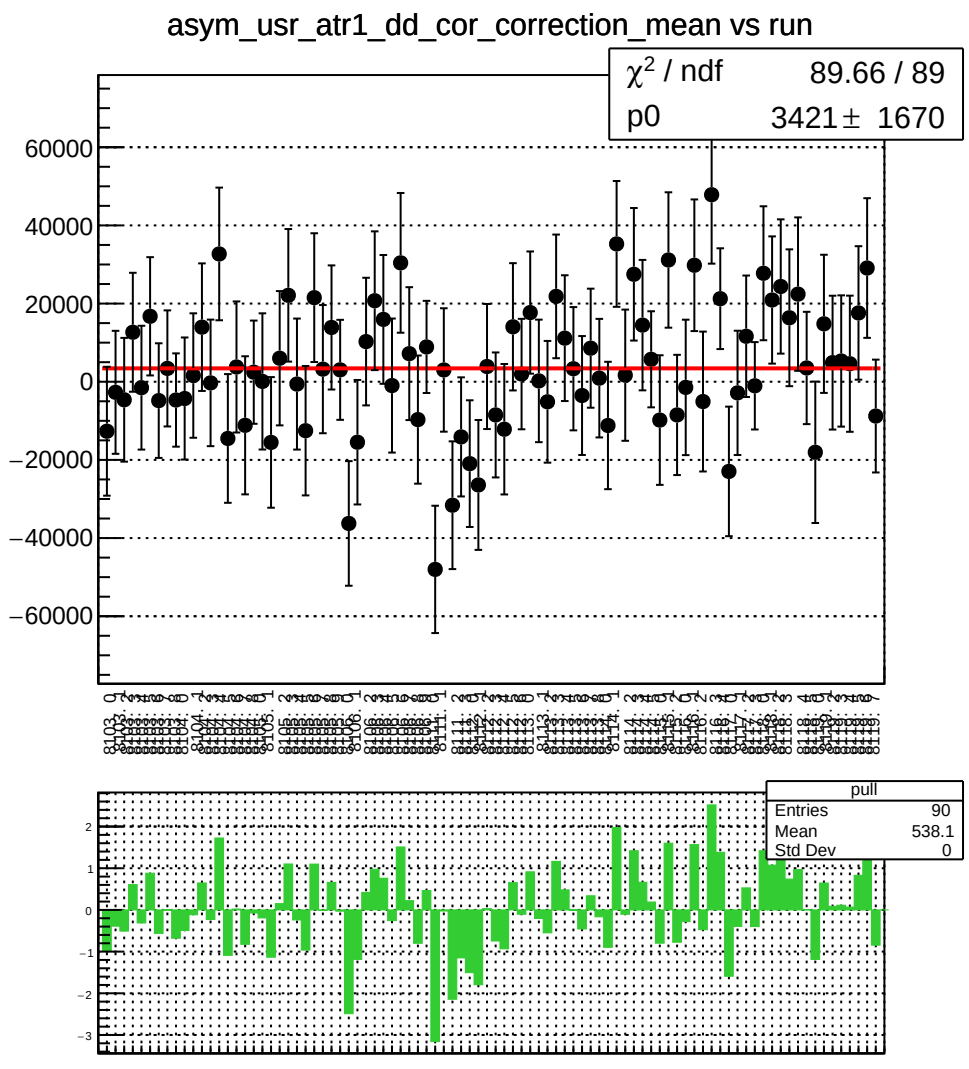

pull1D
Entries 90
Mean 0.01152
Std Dev 0.9981

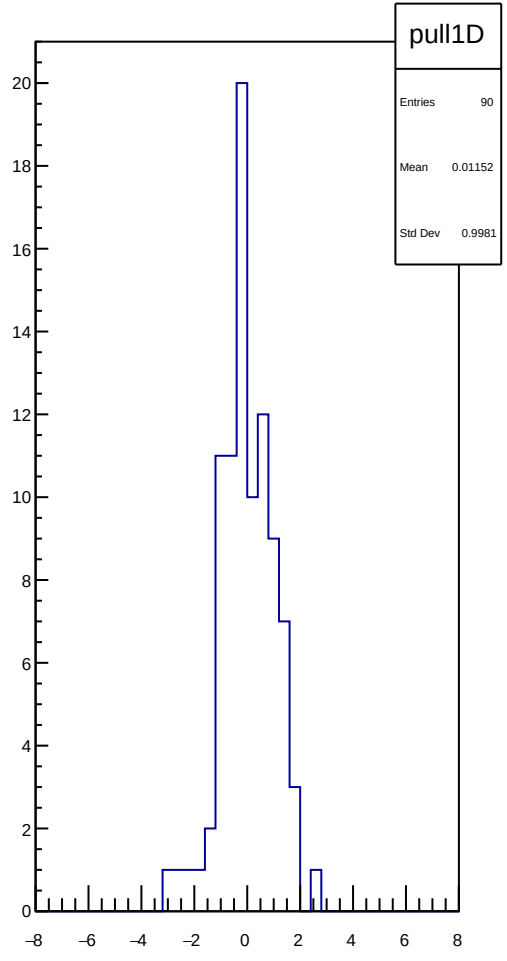

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4495 / 89
p0 1564 ± 1.181
1900
1800
1700
1600
1500
1400

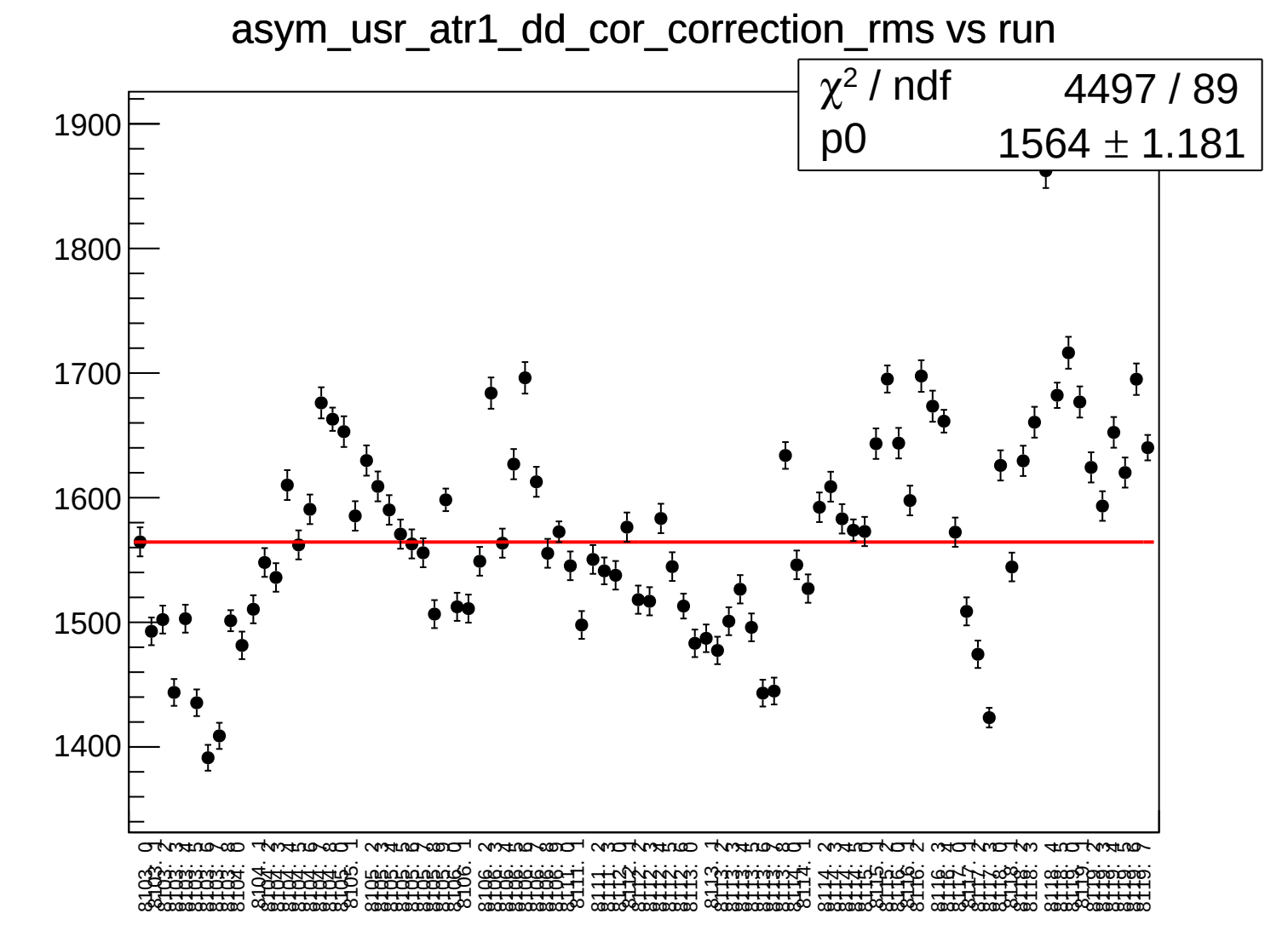

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.74 / 89
p0 590.2 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −340.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

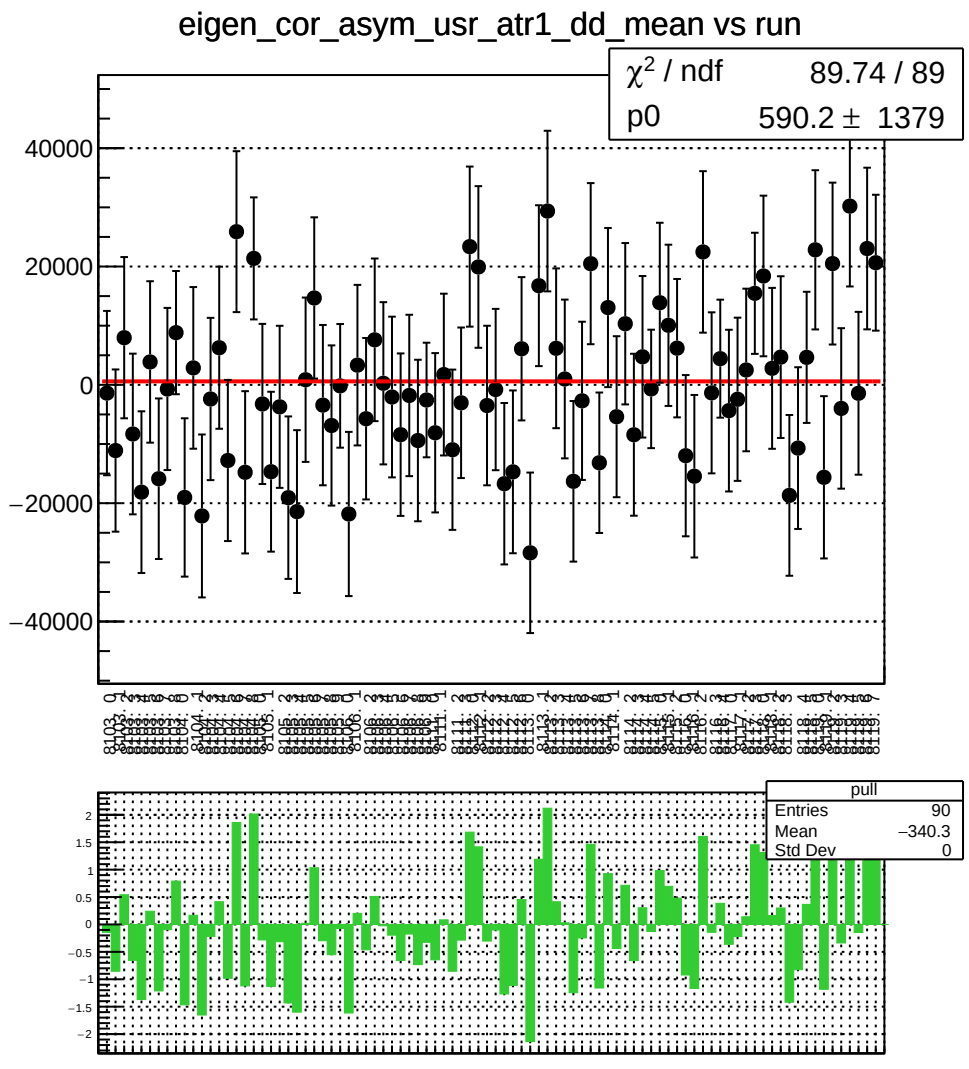

pull1D
Entries 90
Mean −0.01973
Std Dev 0.9984
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

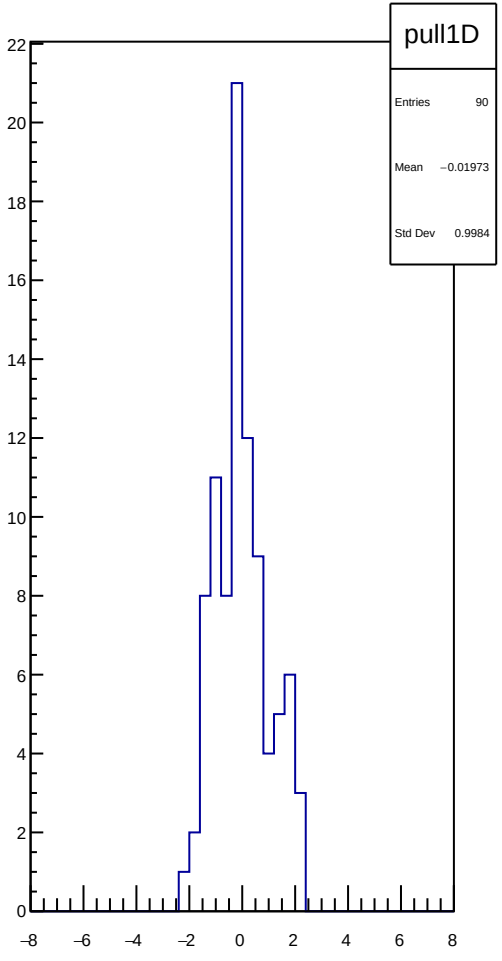

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 100.7 / 89
p0 1293 ± 0.9753
1330
1320
1310
1300
1290
1280
1270
1260

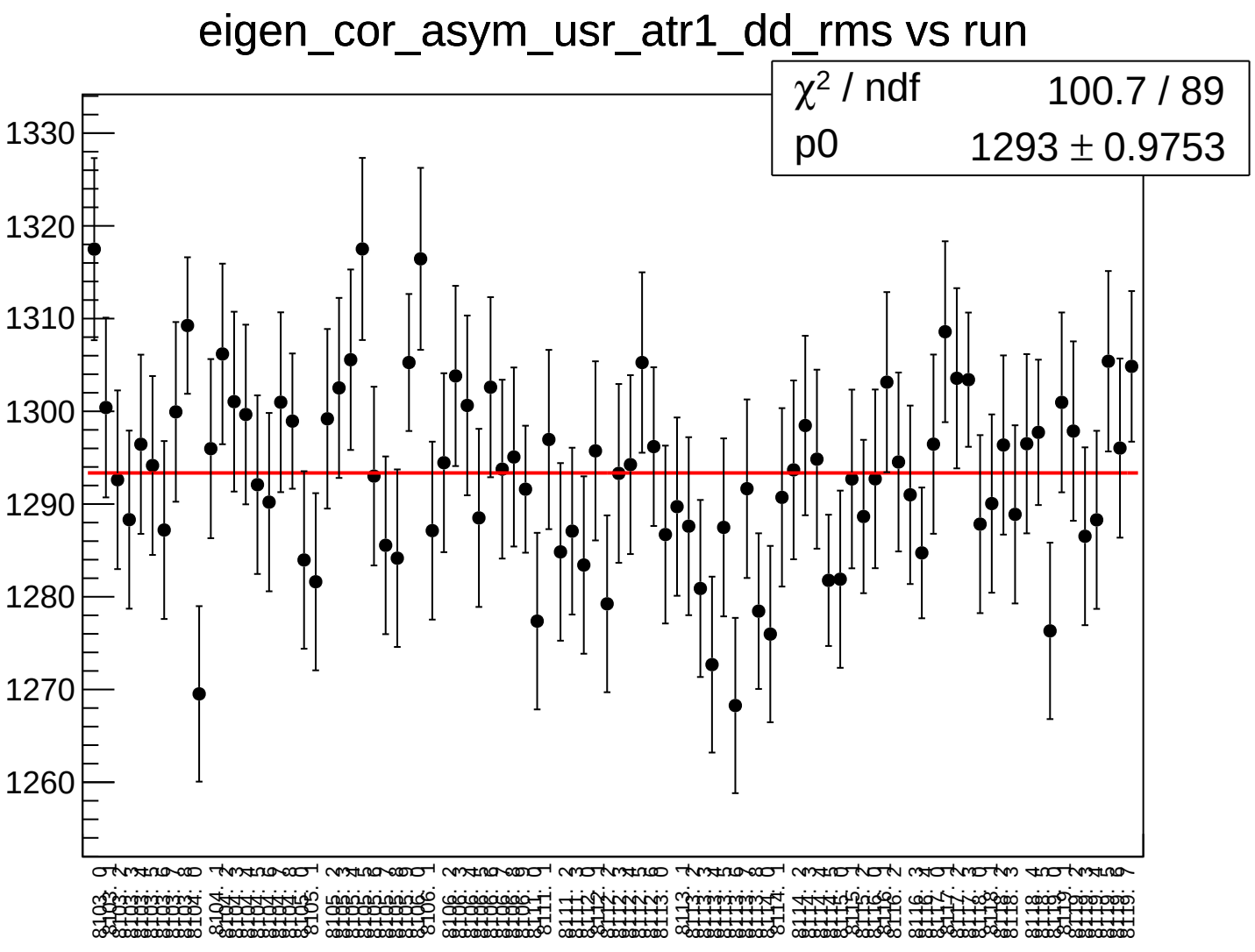

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 89.66 / 89
p0 3421 ± 1670
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 538.1
Std Dev 0
2
1
0
−1
−2
−3

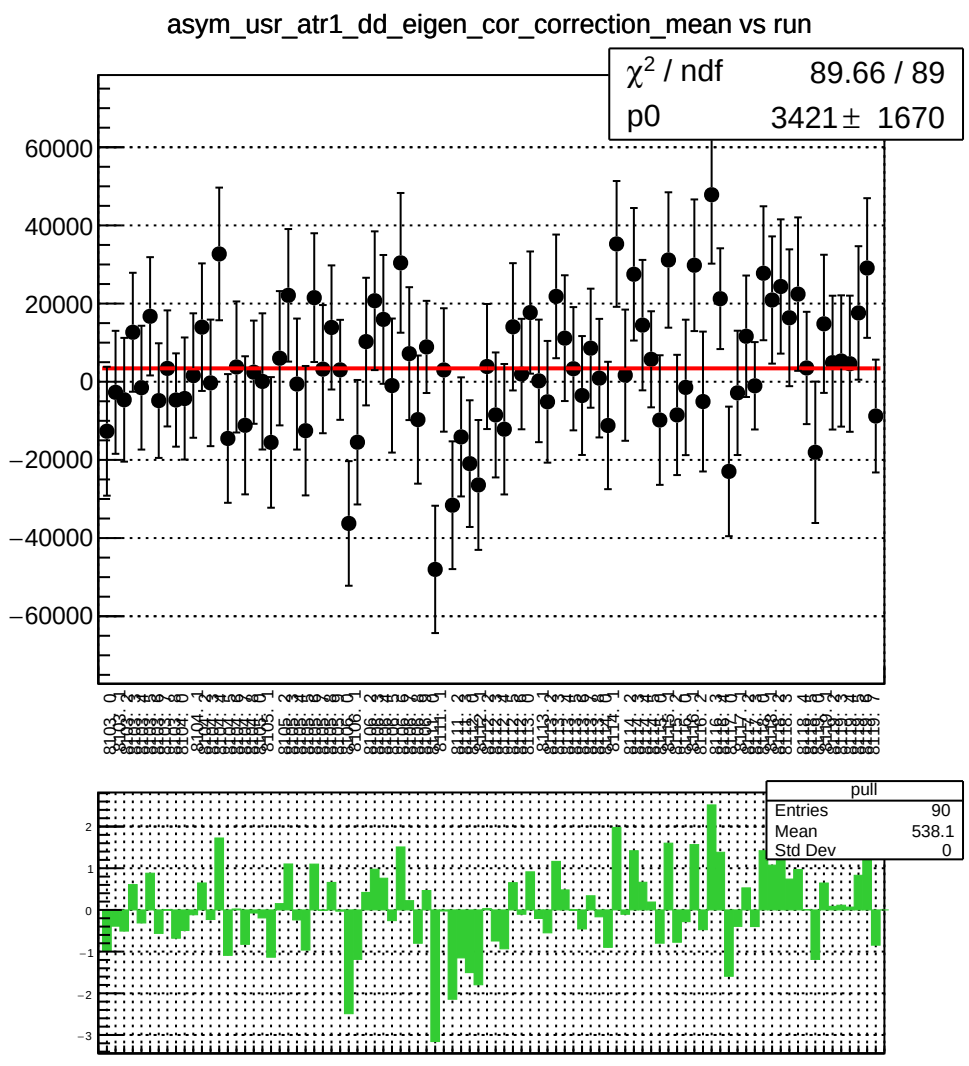

pull1D
Entries 90
Mean 0.01152
Std Dev 0.9981
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

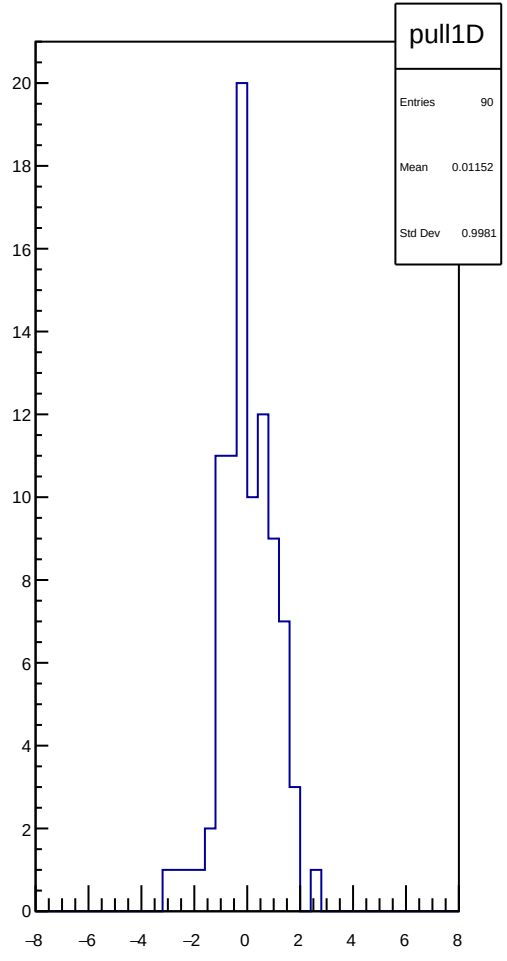

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4497 / 89
p0 1564 ± 1.181
1900
1800
1700
1600
1500
1400

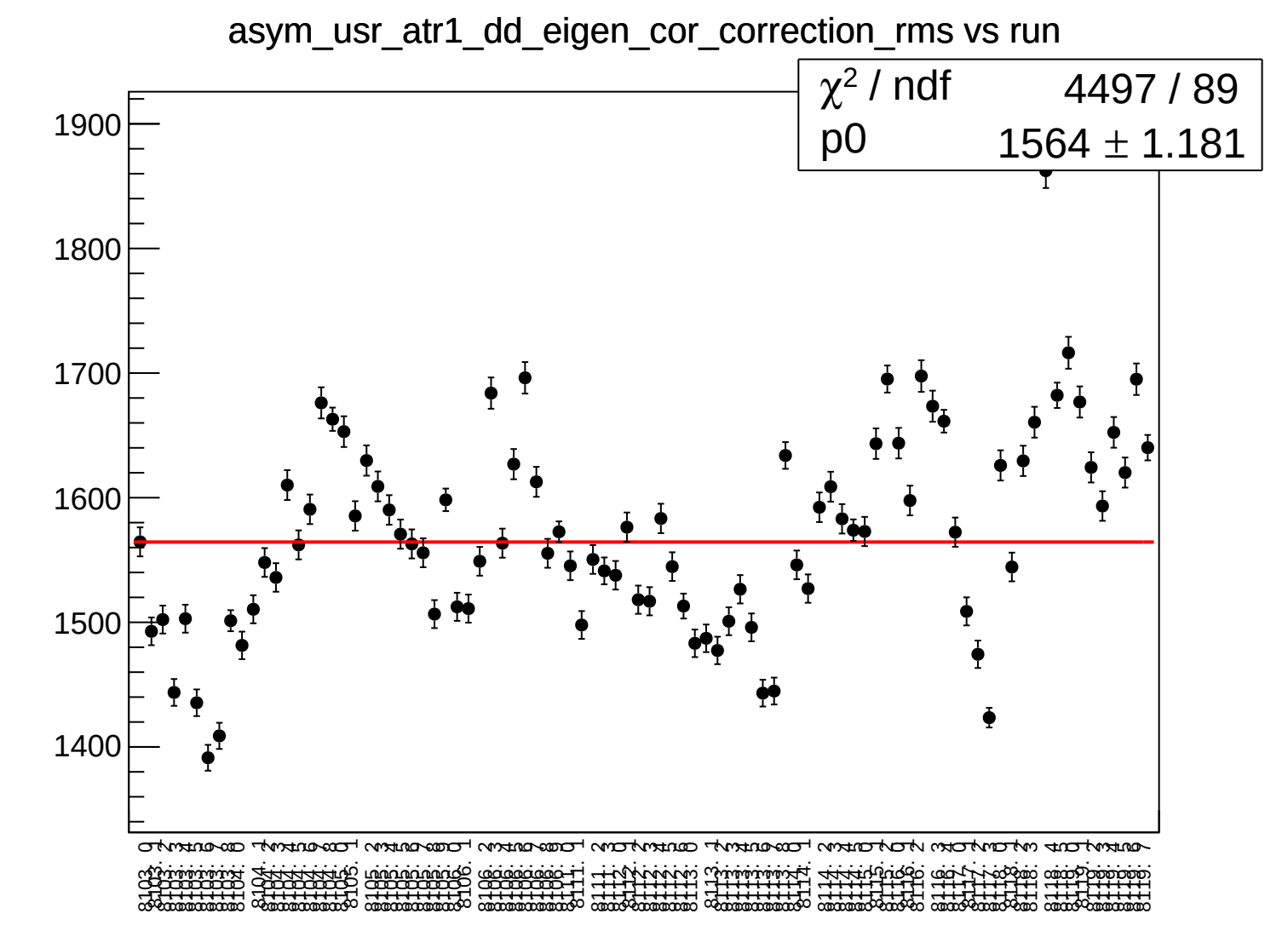

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.74 / 89
p0 590.2 ± 1379
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −340.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

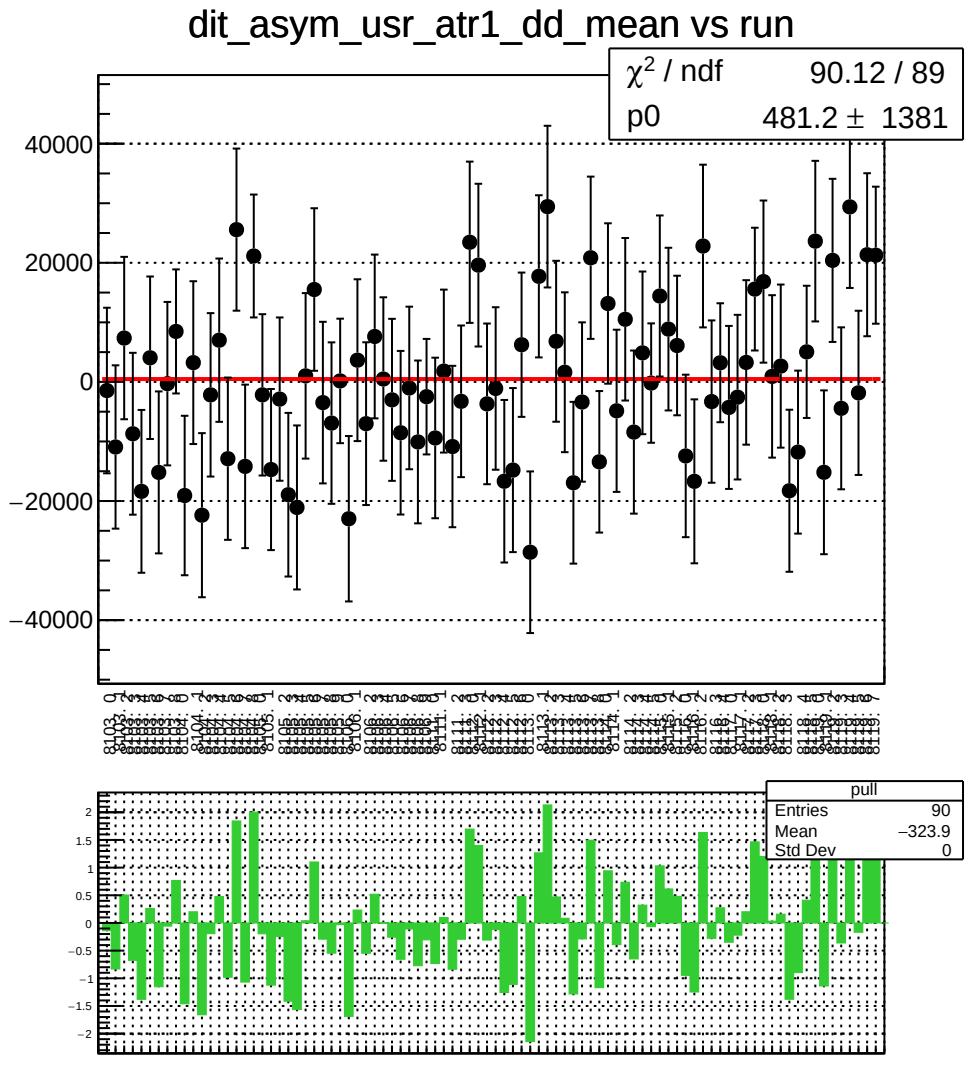

pull1D
Entries 90
Mean −0.01973
Std Dev 0.9984
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

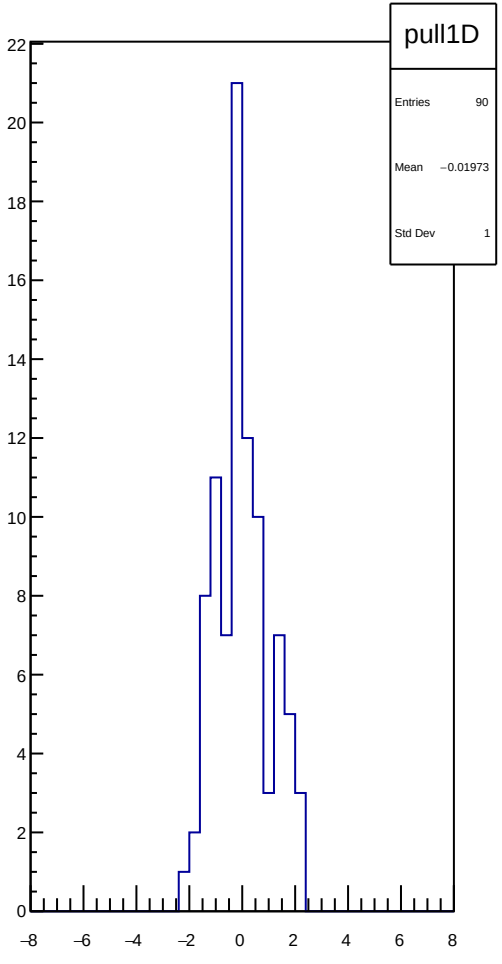

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 100.7 / 89
p0 1293 ± 0.9753
1330
1320
1310
1300
1290
1280
1270
1260

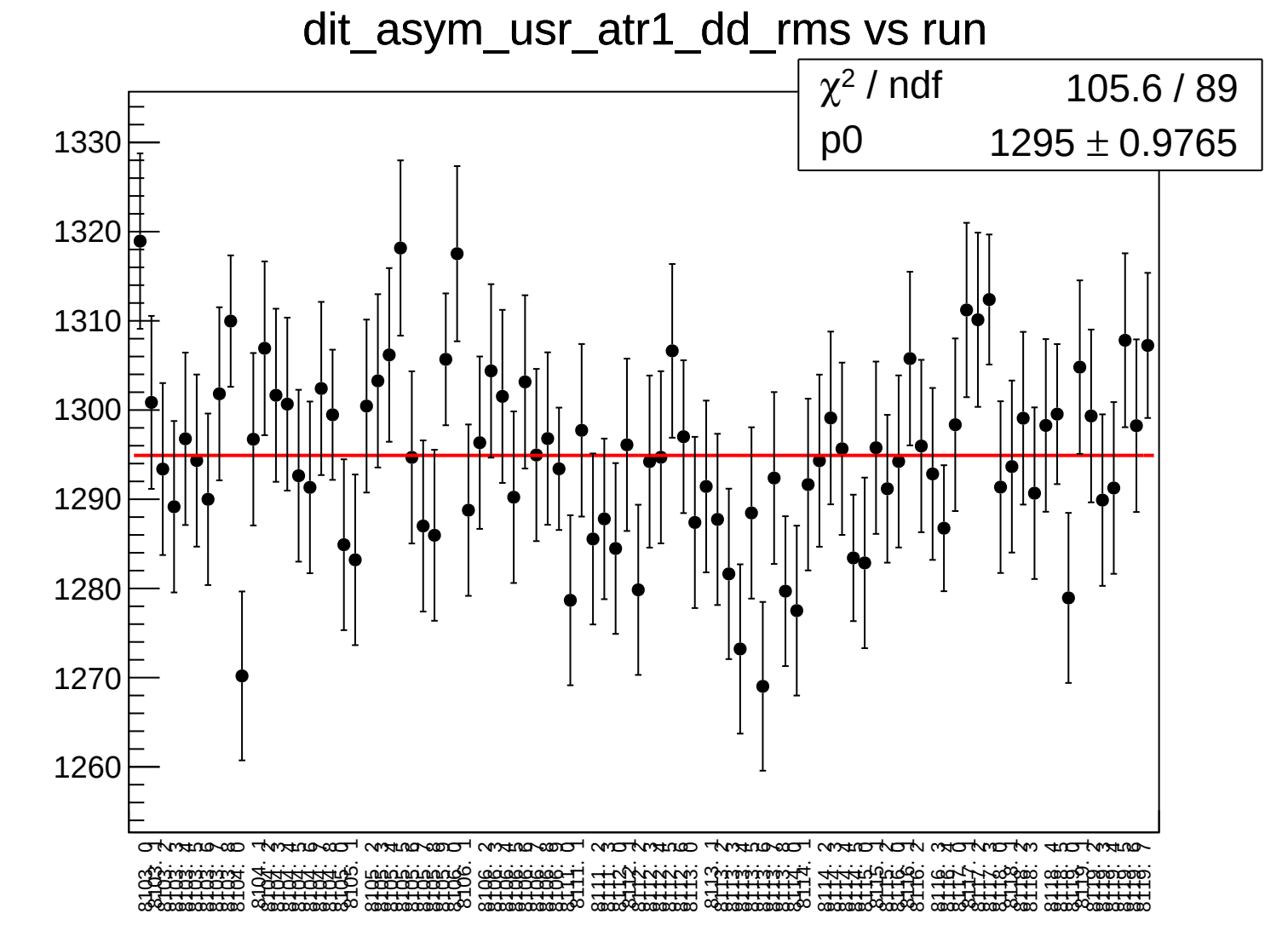

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.66 / 89
p0 3421 ± 1670
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 538.1
Std Dev 0
2
1
0
−1
−2
−3

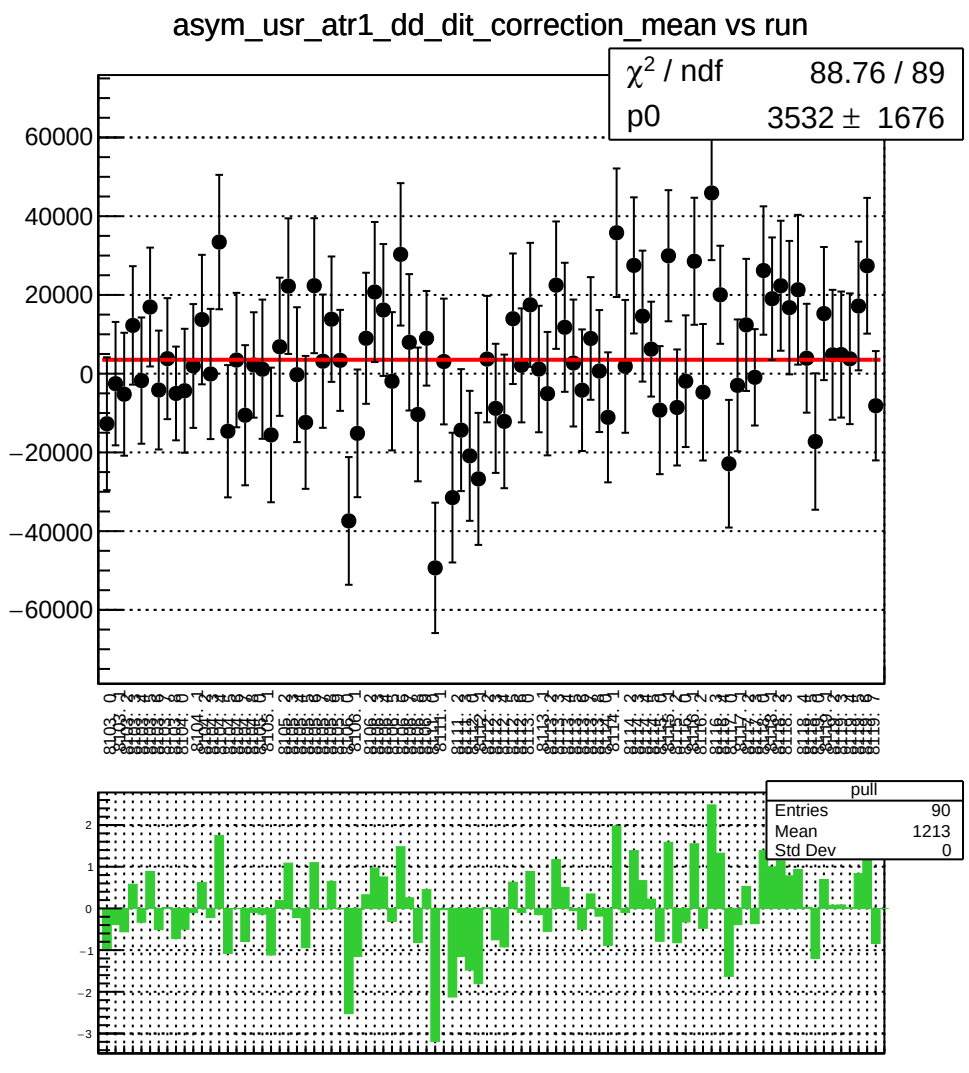

pull1D
Entries 90
Mean 0.01152
Std Dev 0.9981
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

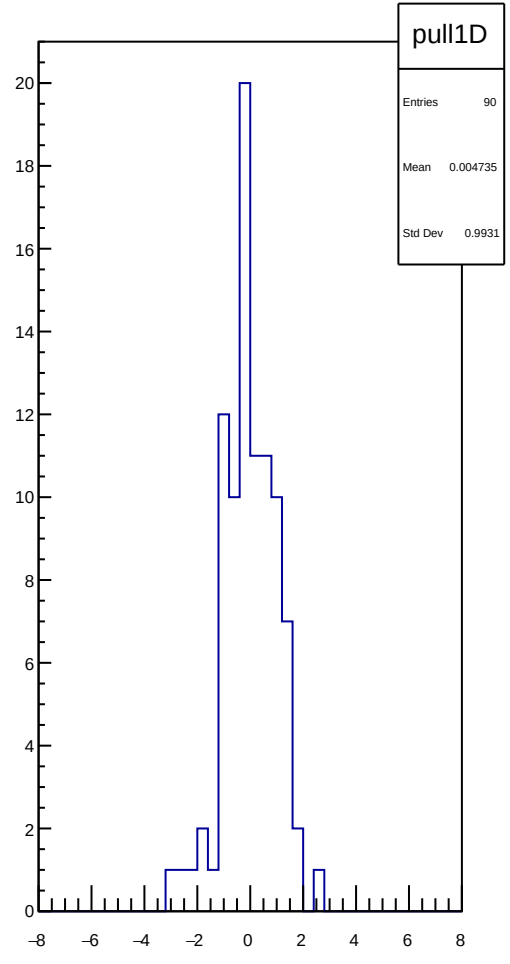

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4497 / 89
p0 1564 ± 1.181
1900
1800
1700
1600
1500
1400

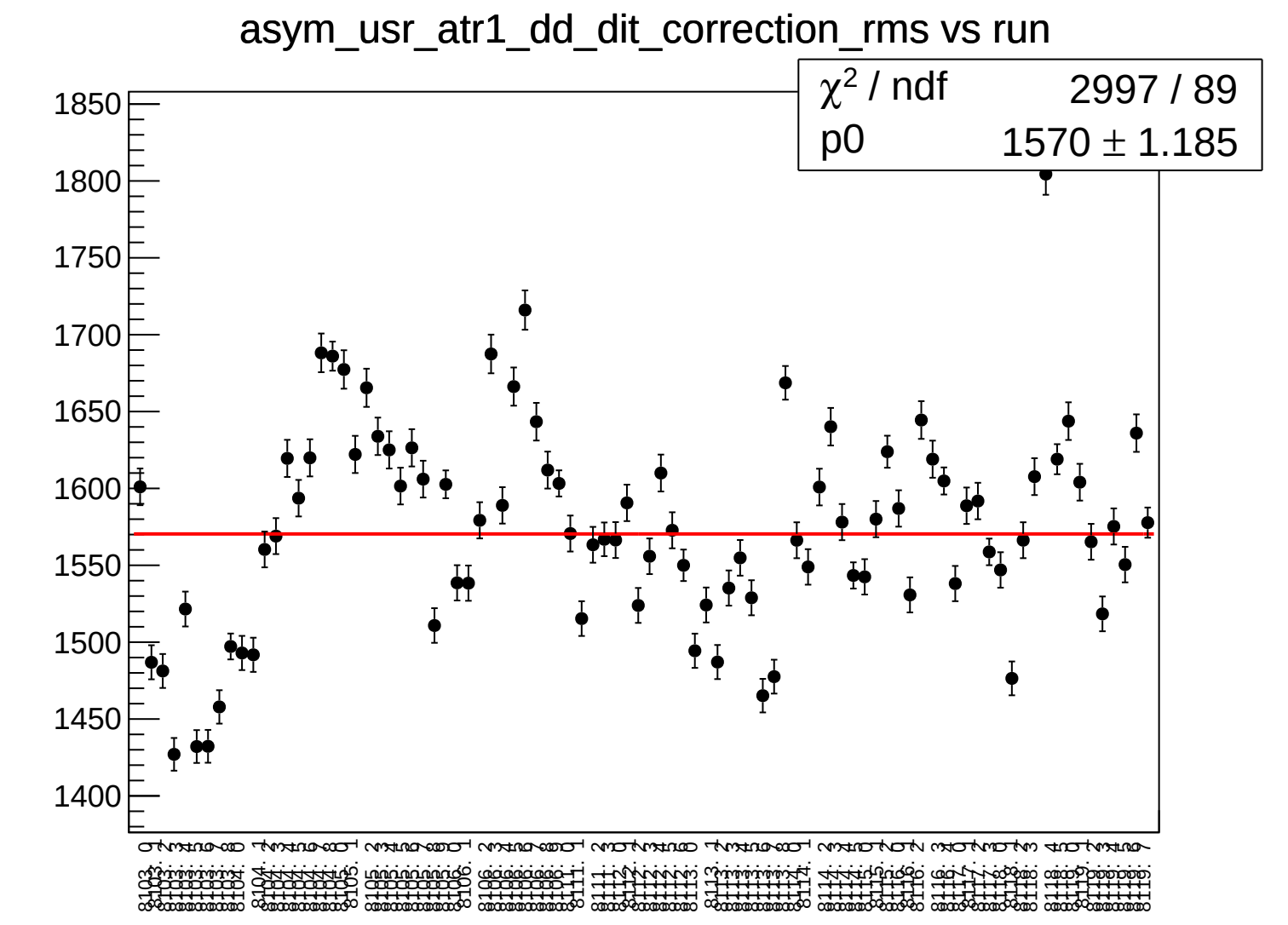

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 90.12 / 89
p0 481.2 ± 1381
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −323.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

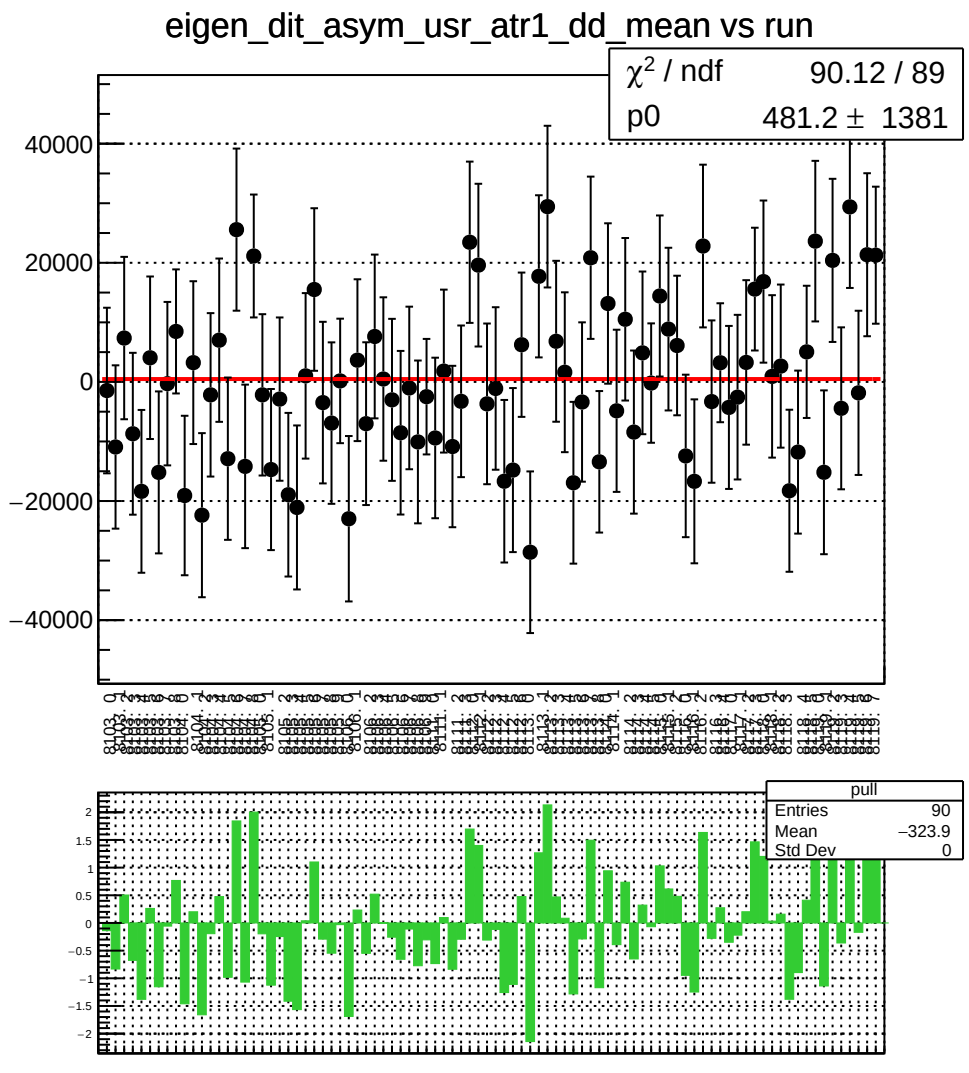

pull1D
Entries 90
Mean −0.01973
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

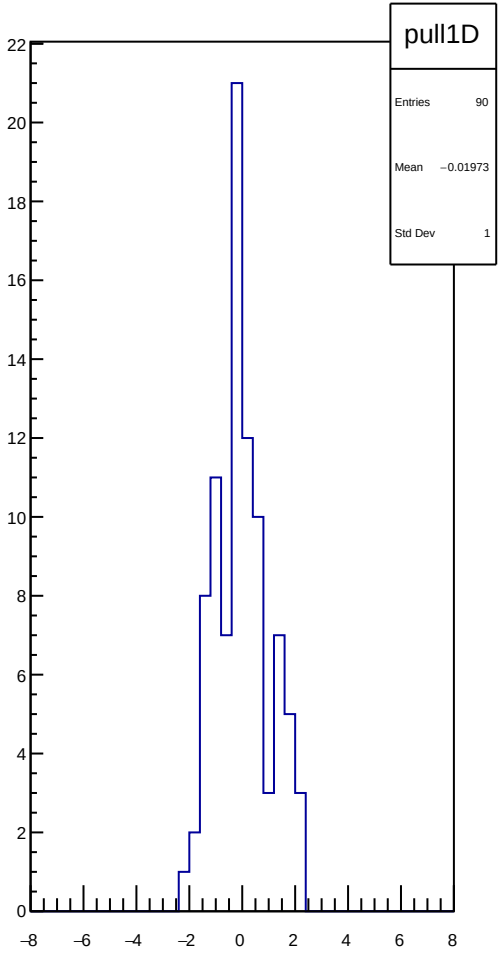

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 105.6 / 89
p0 1295 ± 0.9765
1330
1320
1310
1300
1290
1280
1270
1260

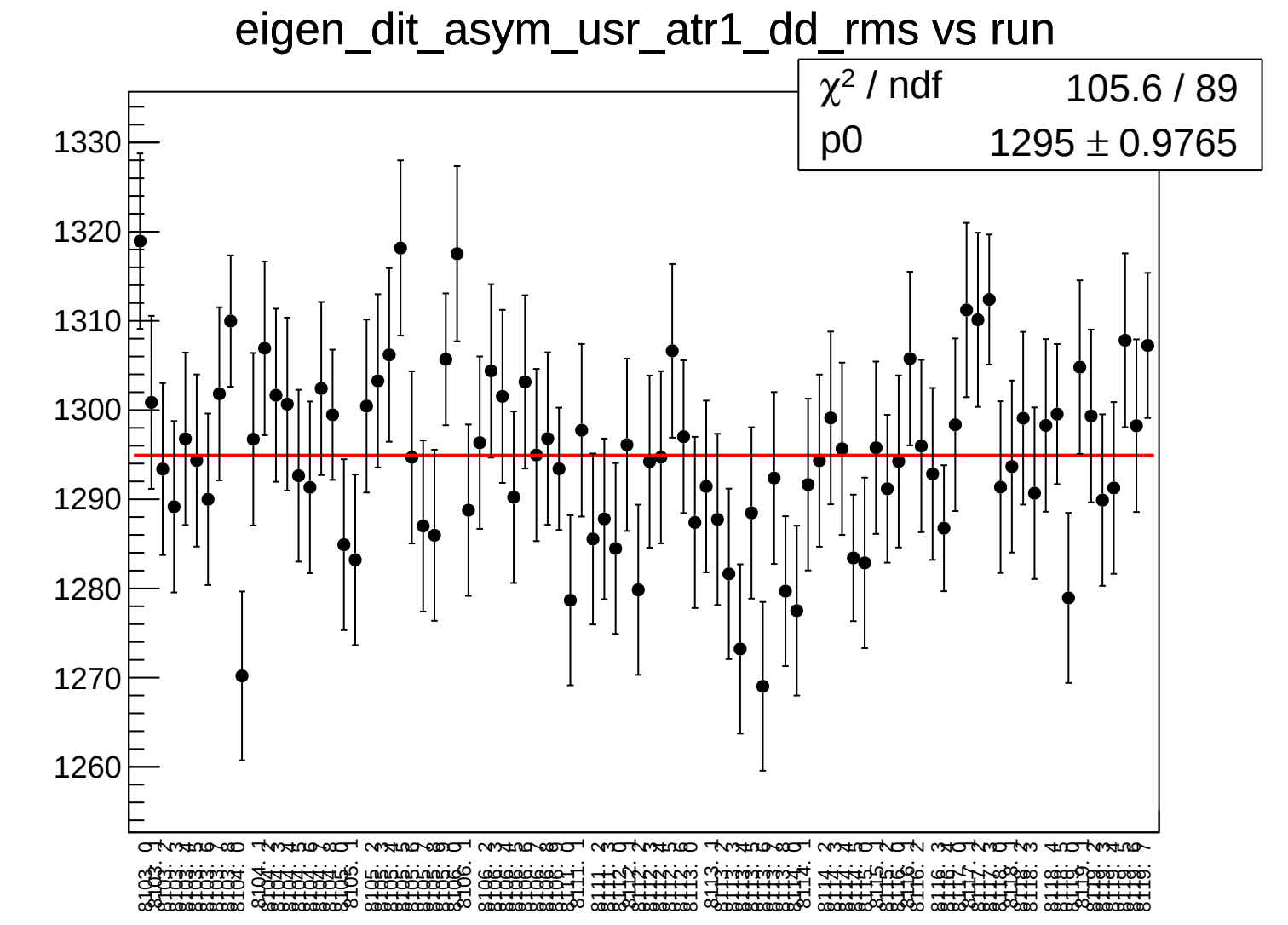

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 88.76 / 89
p0 3532 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1213
Std Dev 0
2
1
0
−1
−2
−3

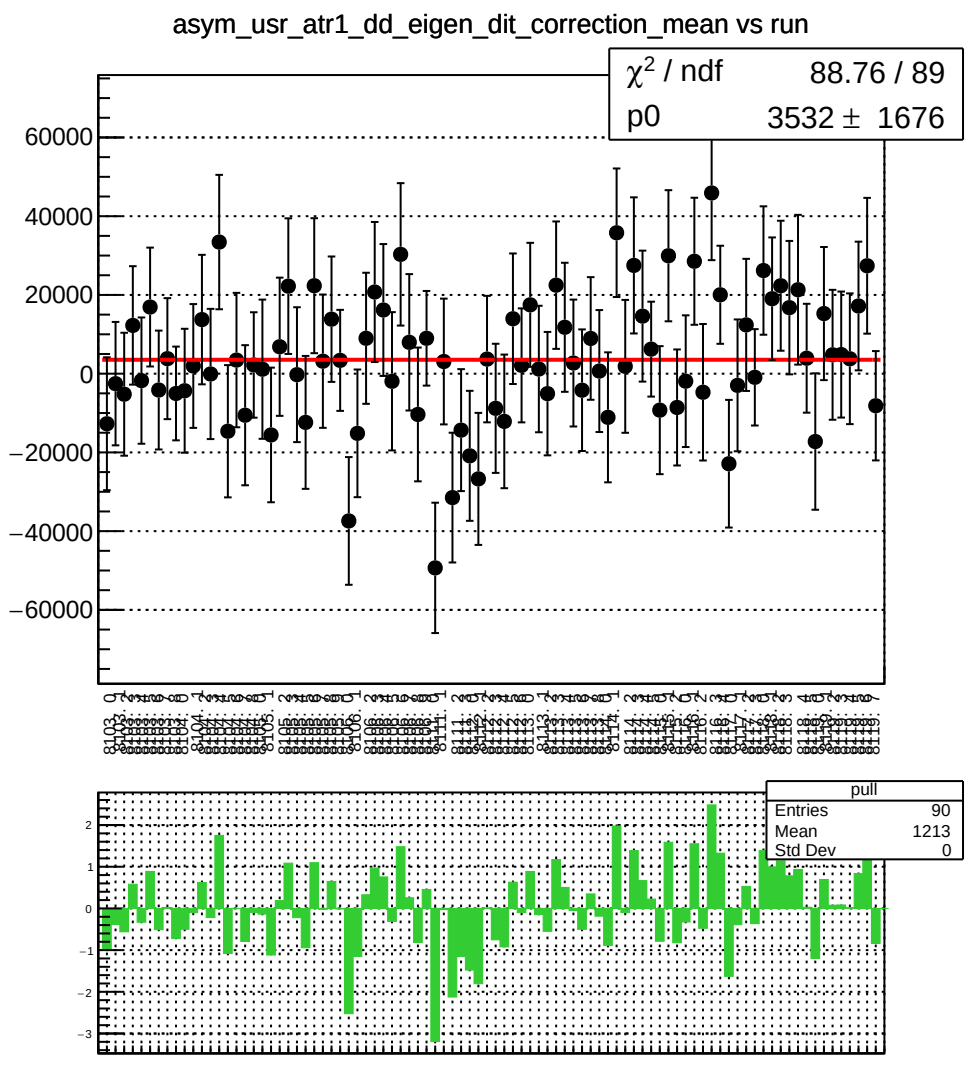

pull1D
Entries 90
Mean 0.004735
Std Dev 0.9931
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

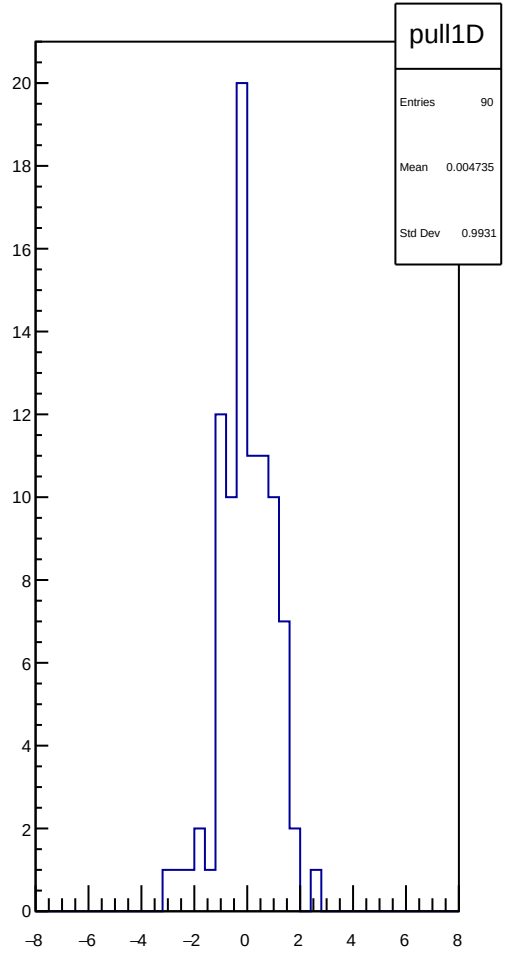

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2997 / 89
p0 1570 ± 1.185
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

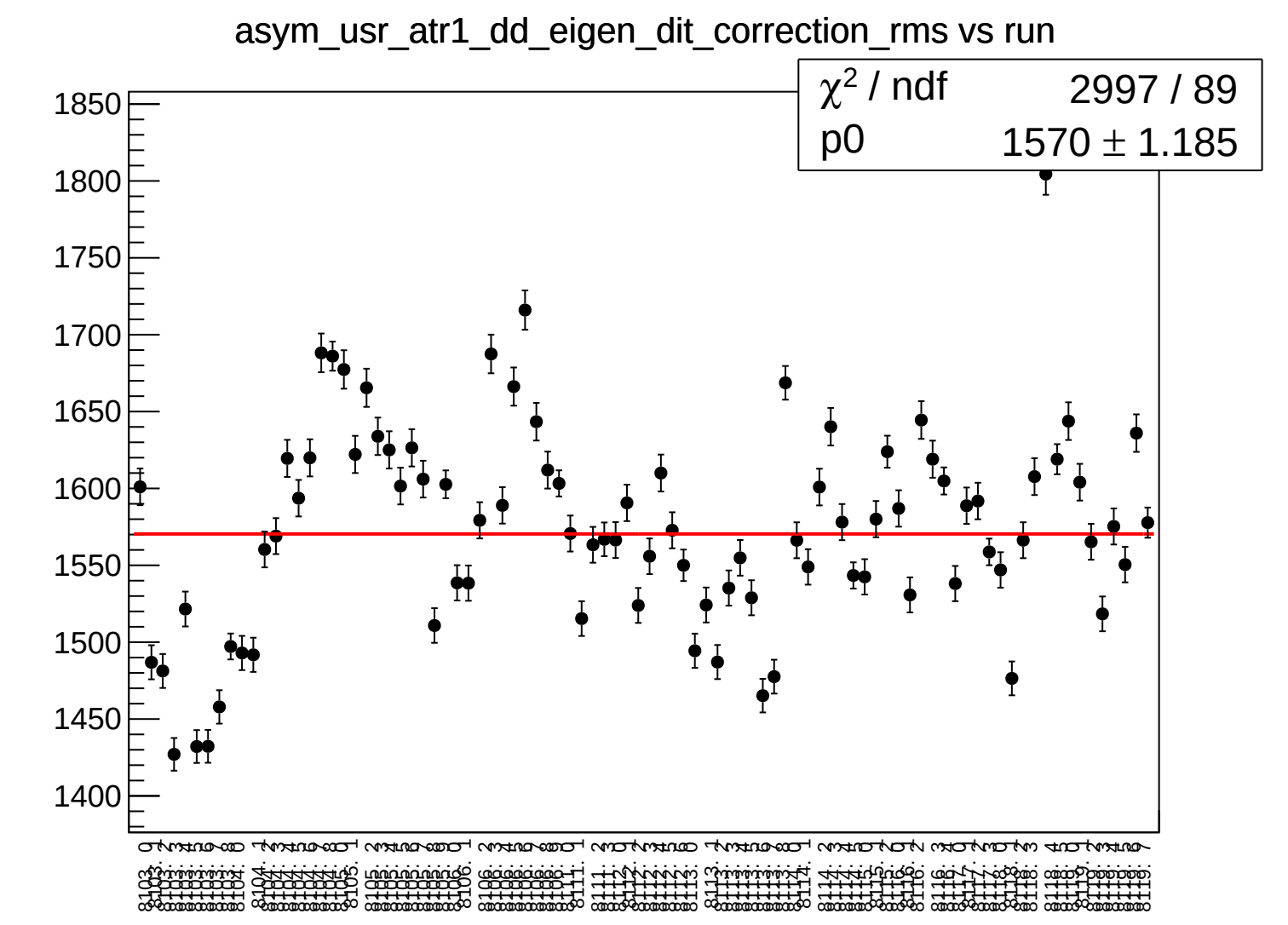

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 90.12 / 89
p0 481.2 ± 1381
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −323.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

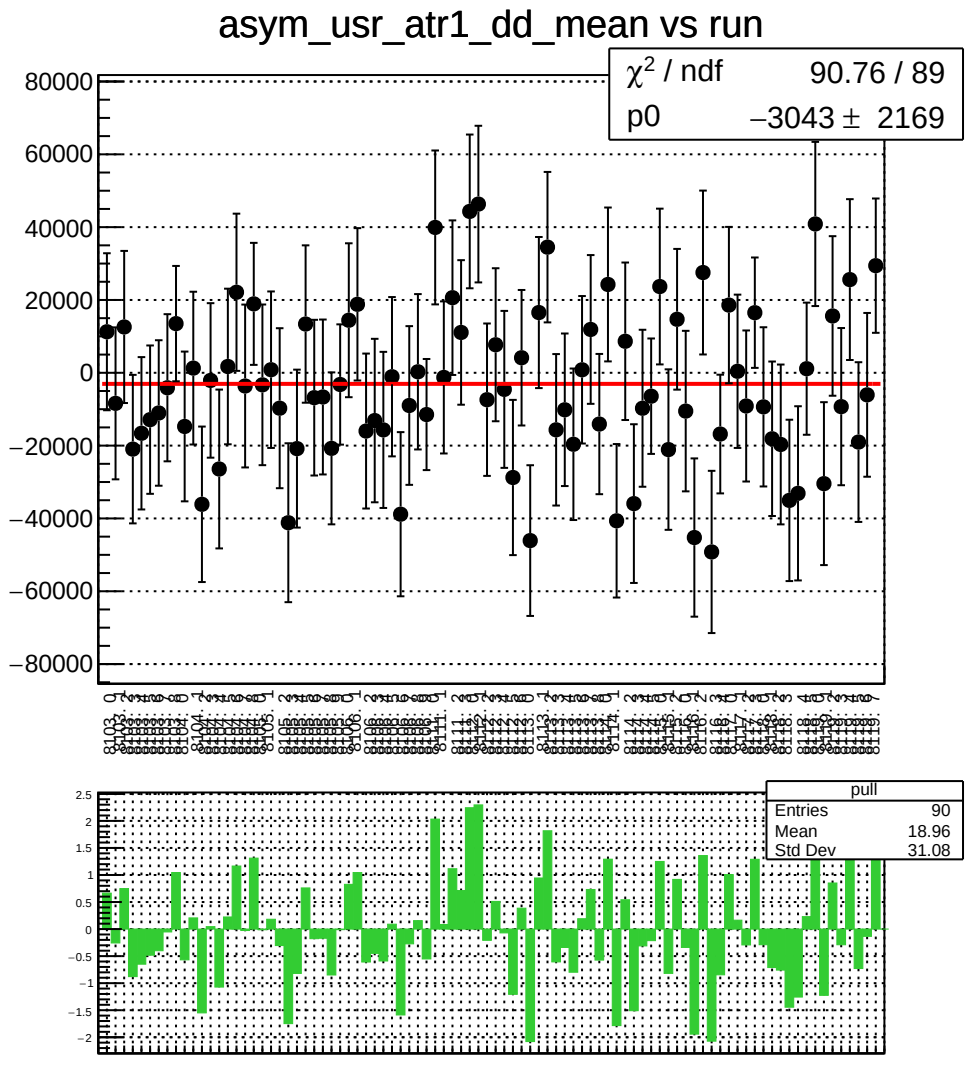

pull1D
Entries 90
Mean −0.01973
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

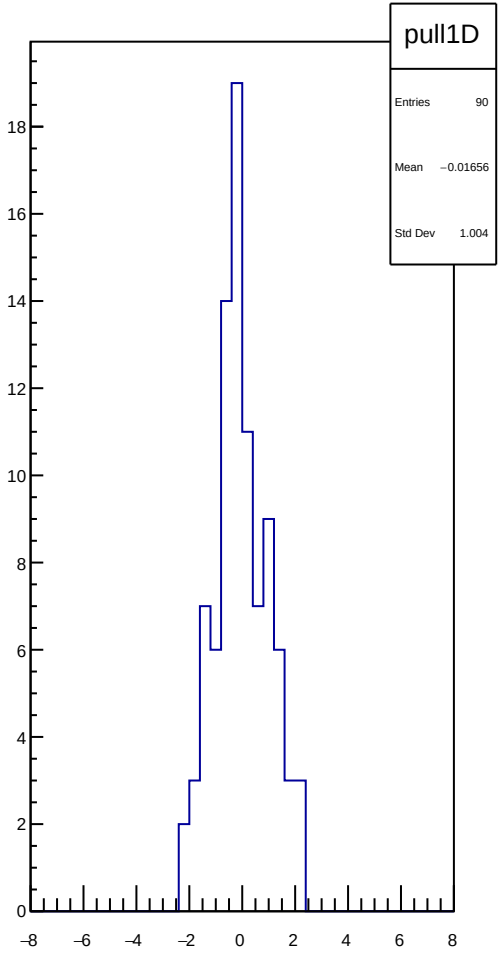

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 105.6 / 89
p0 1295 ± 0.9765
1330
1320
1310
1300
1290
1280
1270
1260

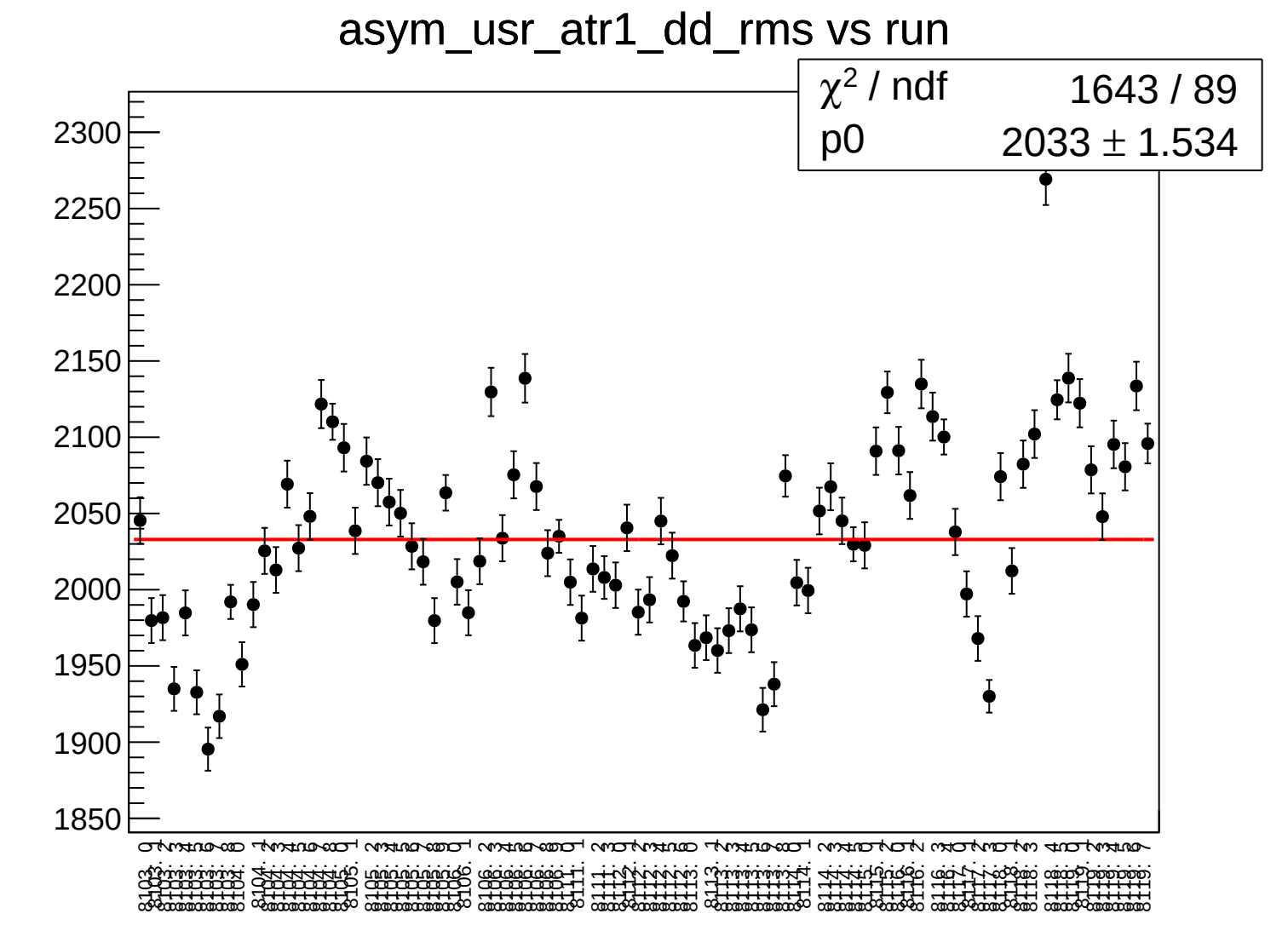

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.76 / 89
p0 3532 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1213
Std Dev 0
2
1
0
−1
−2
−3

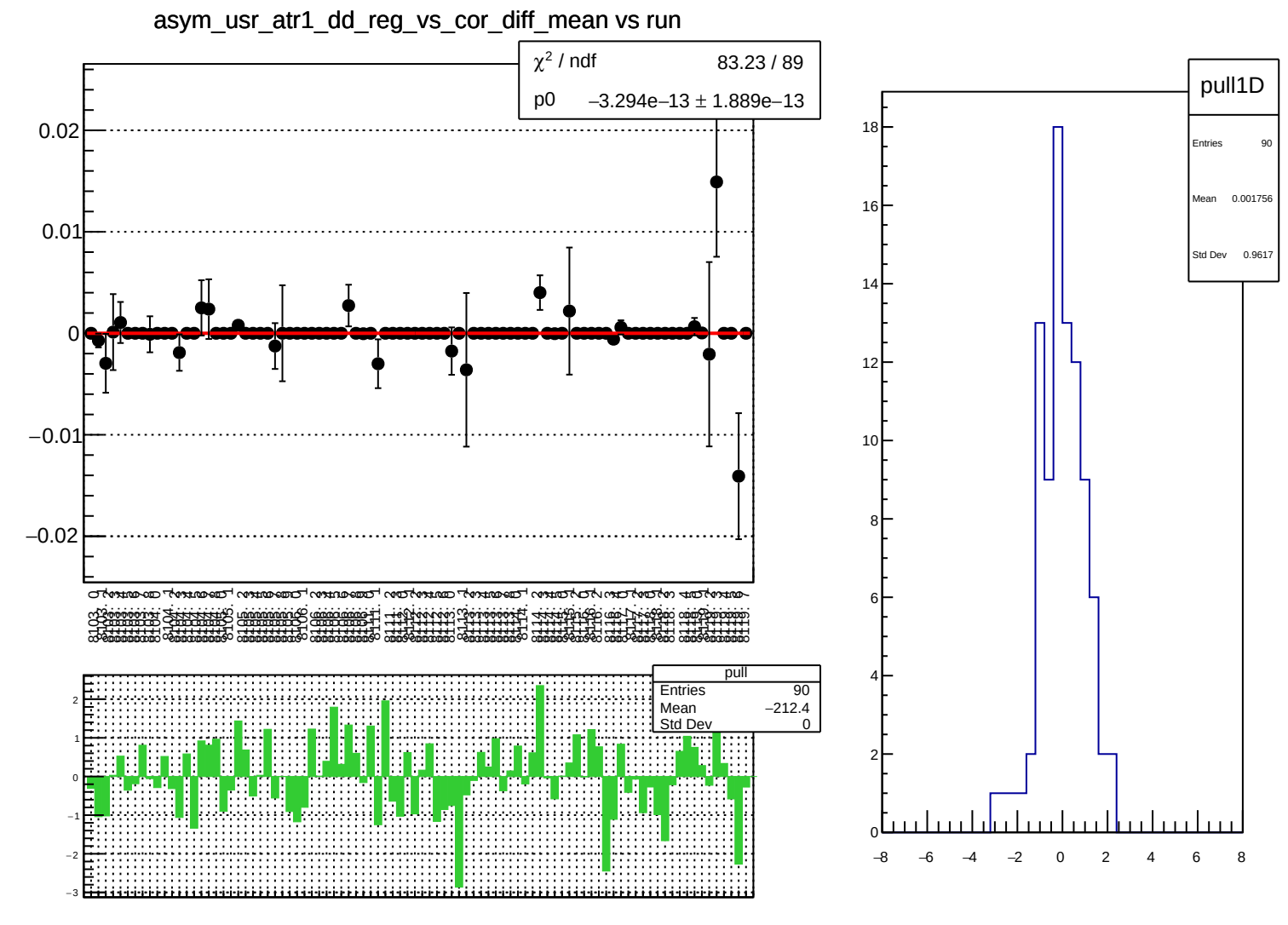

pull1D
Entries 90
Mean 0.004735
Std Dev 0.9931
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

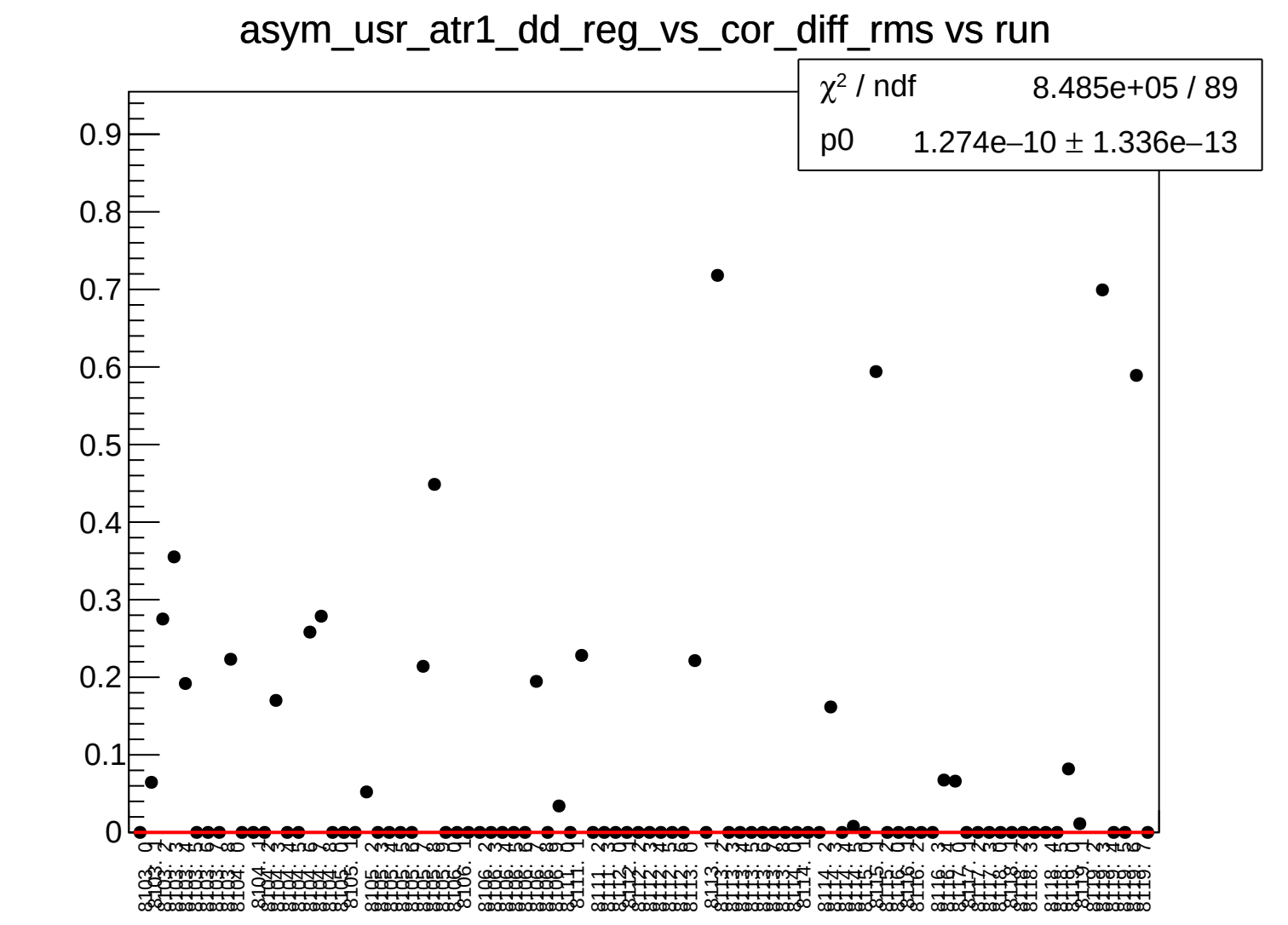

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2997 / 89
p0 1570 ± 1.185
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

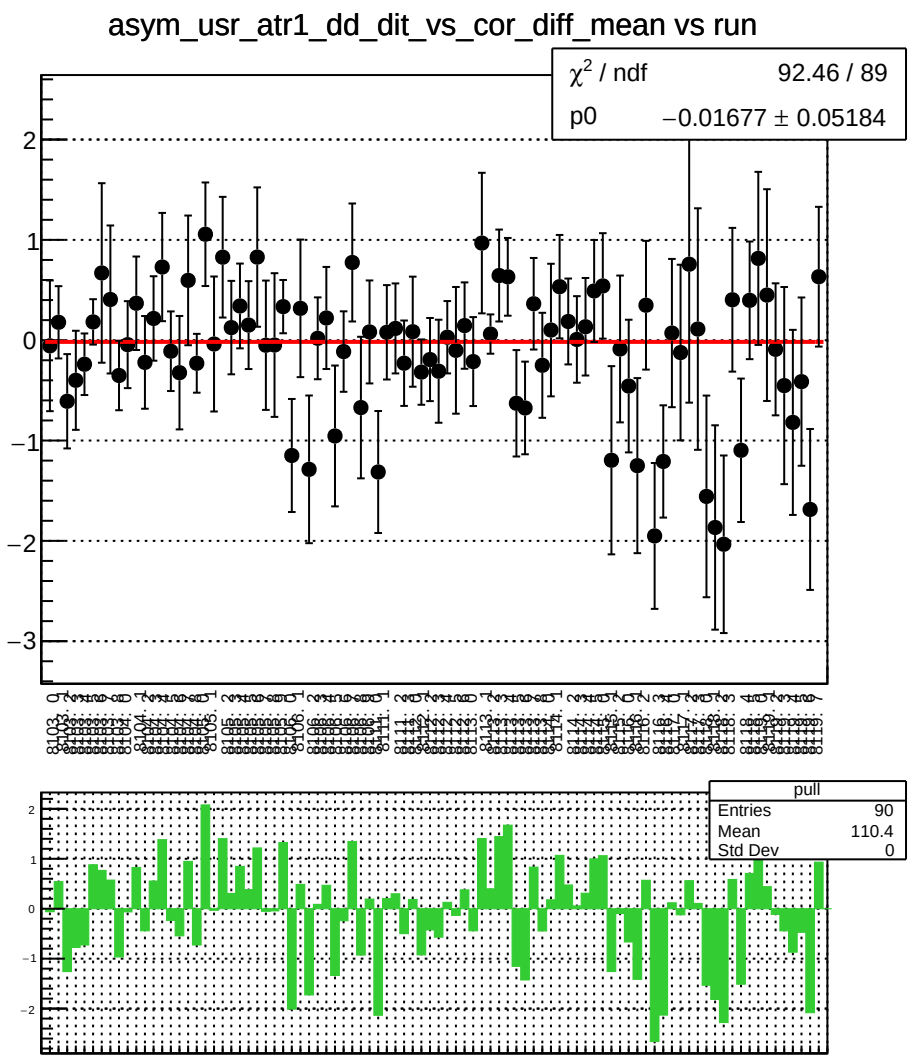

asym_usr_atr1_dd_mean vs run
χ² / ndf 90.76 / 89
p0 −3043 ± 2169
pull
Entries 90
Mean 18.96
Std Dev 31.08

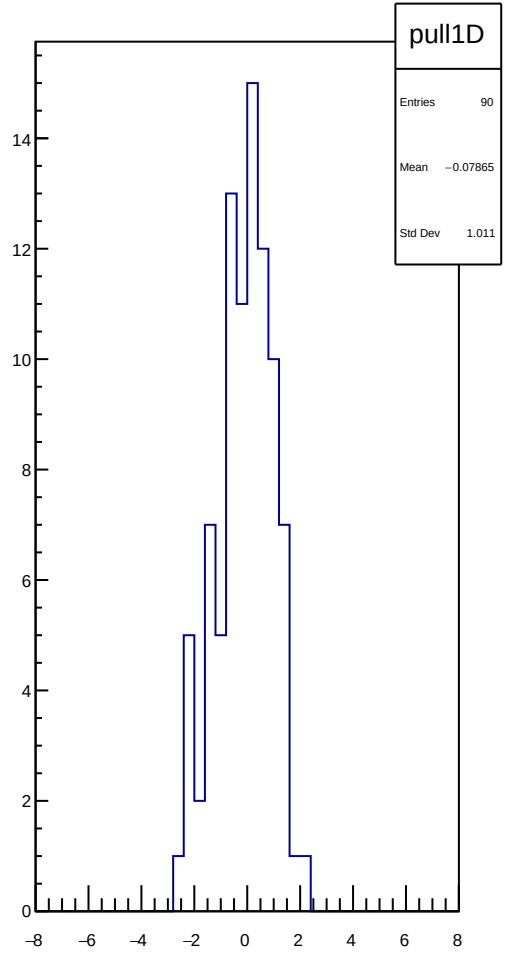

pull1D
Entries 90
Mean −0.01656
Std Dev 1.004

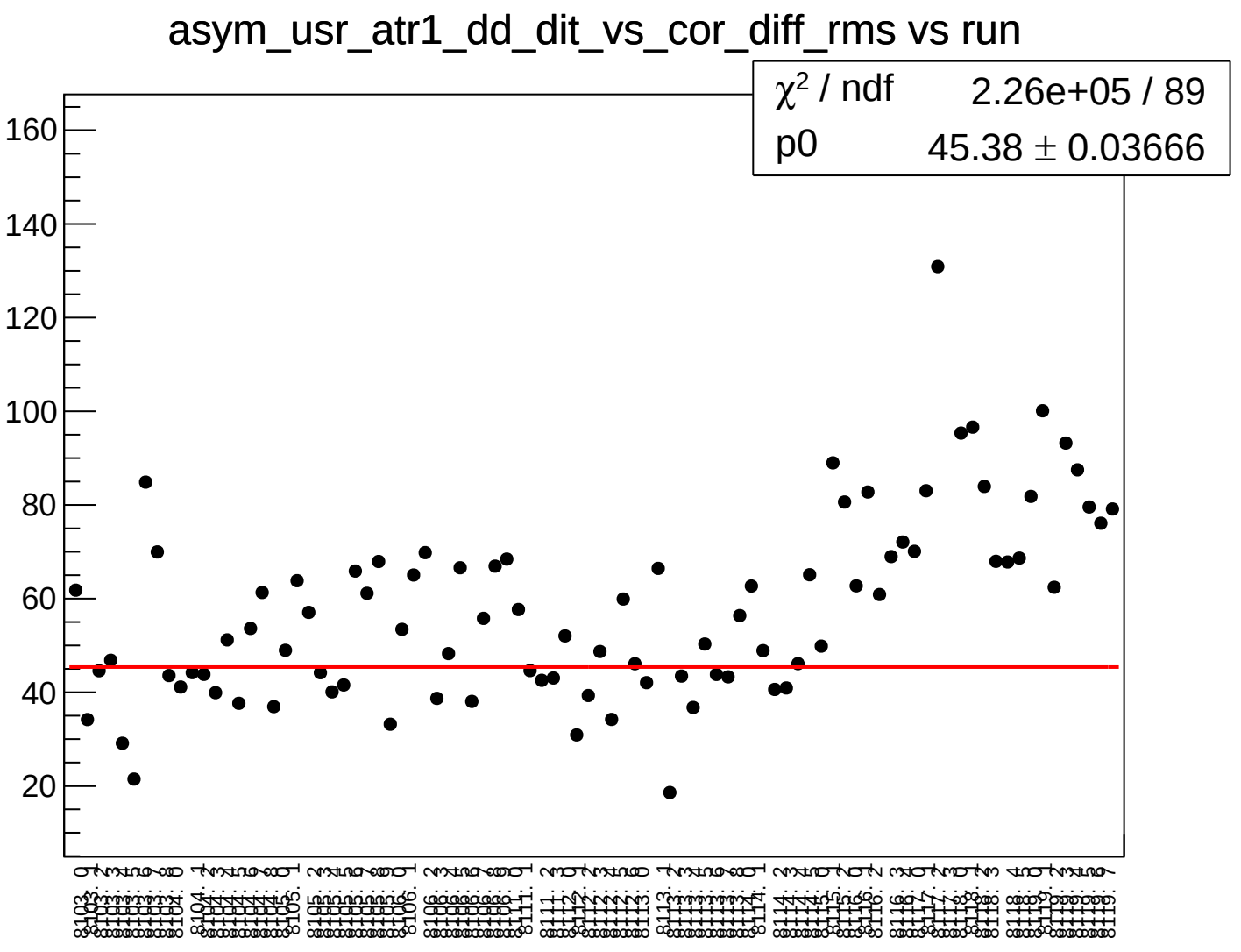

asym_usr_atr1_dd_rms vs run
χ² / ndf 1643 / 89
p0 2033 ± 1.534
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850

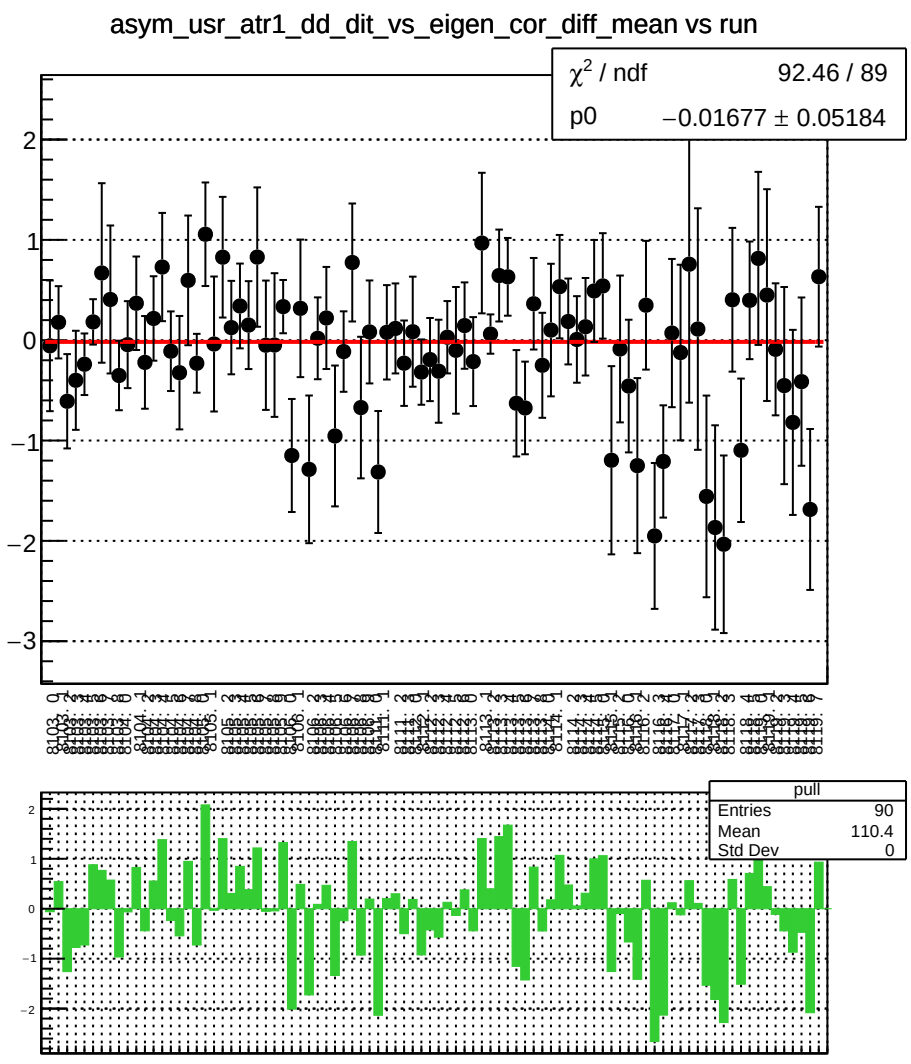

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.23 / 89
p0 −3.294e−13 ± 1.889e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean −212.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.001756
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

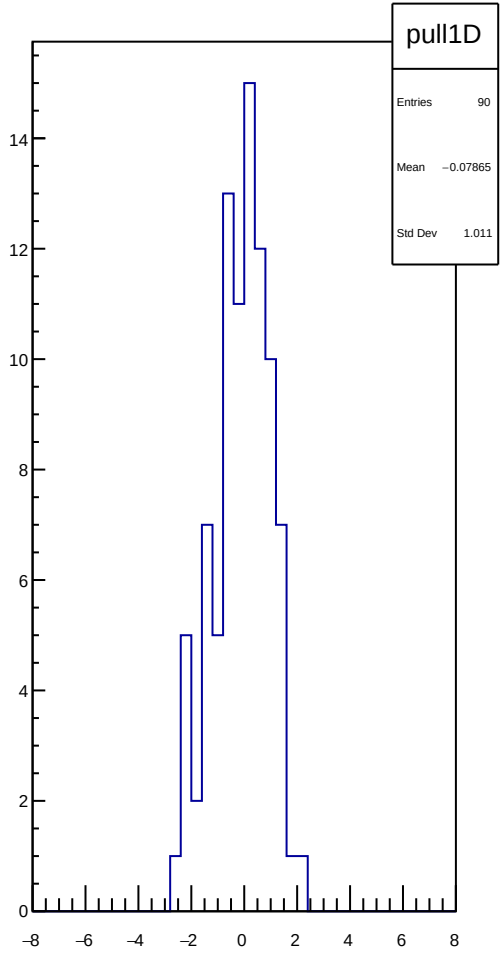

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.485e+05 / 89
p0 1.274e−10 ± 1.336e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

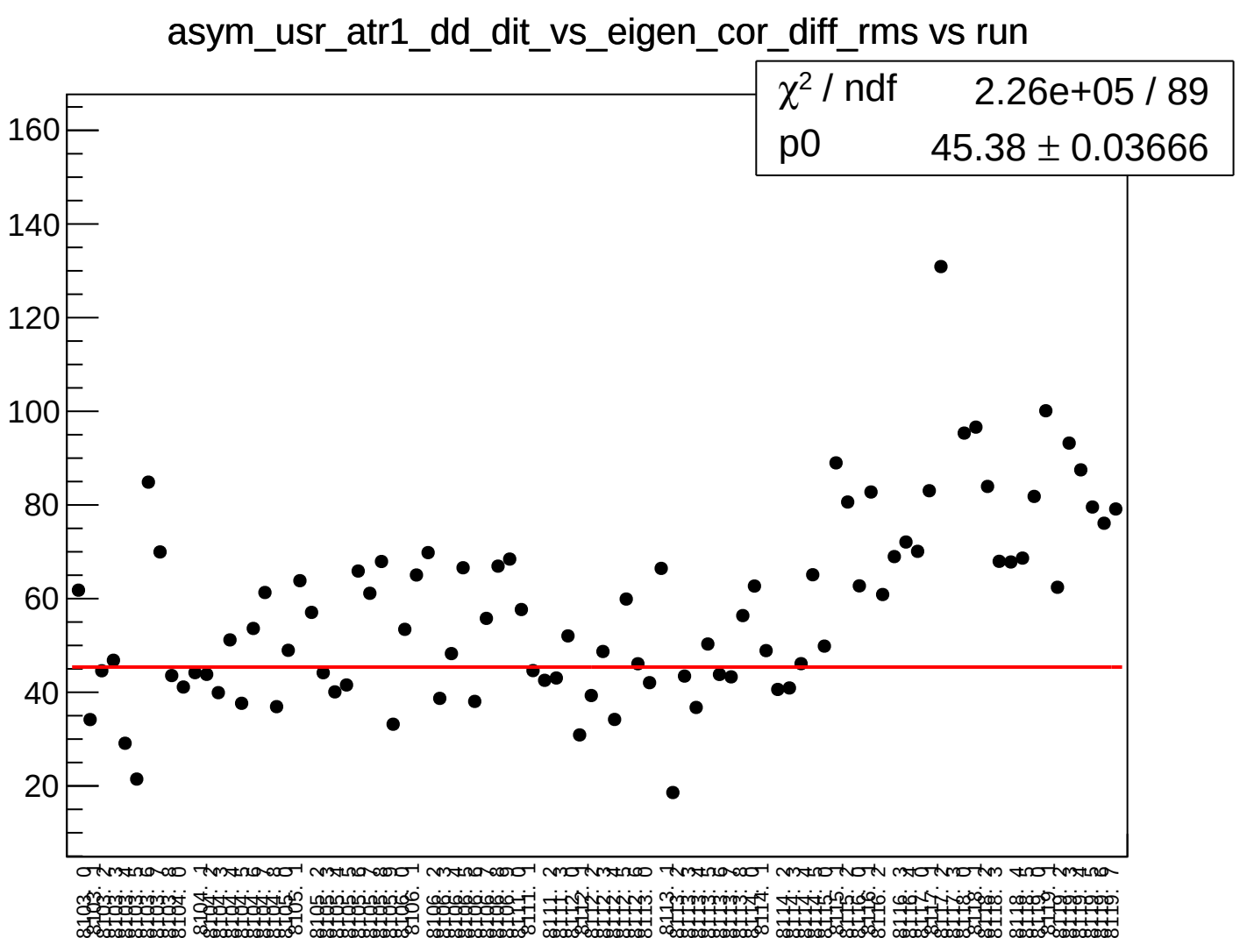

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.46 / 89
p0 −0.01677 ± 0.05184
pull
Entries 90
Mean 110.4
Std Dev 0

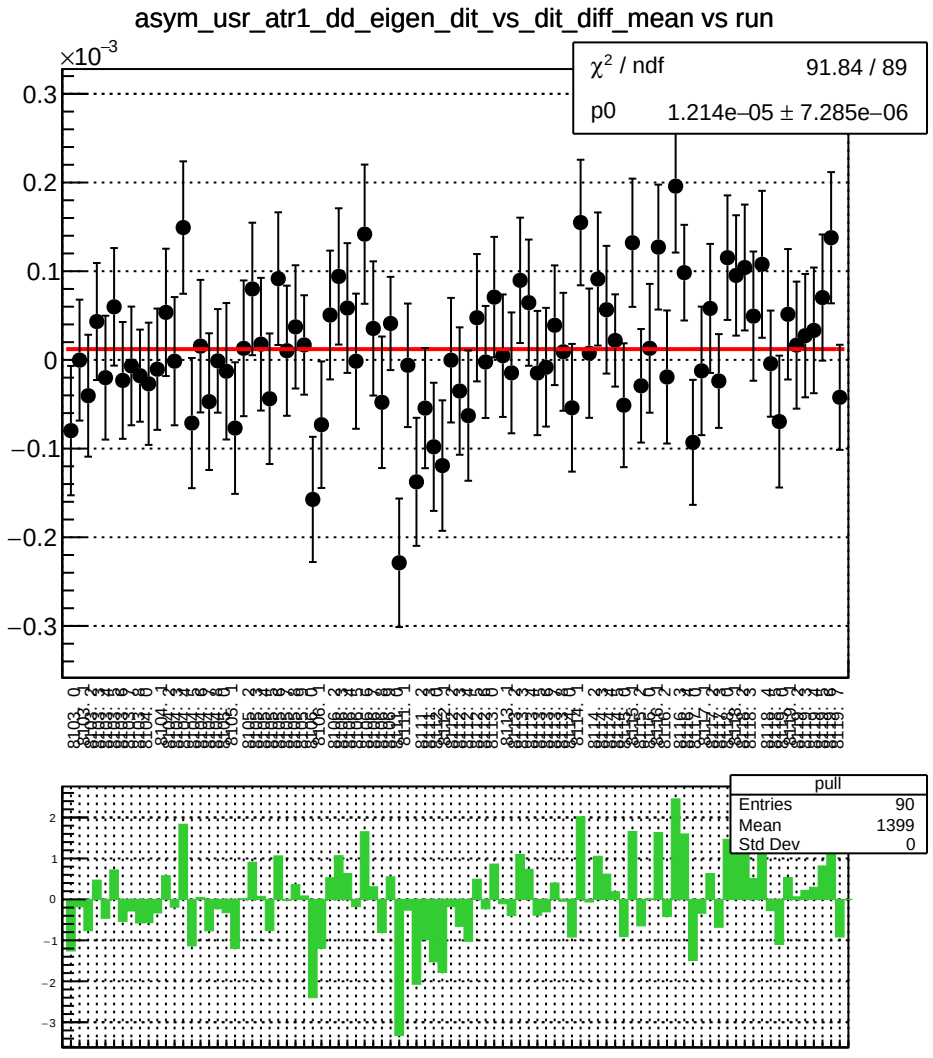

pull1D
Entries 90
Mean −0.07865
Std Dev 1.011

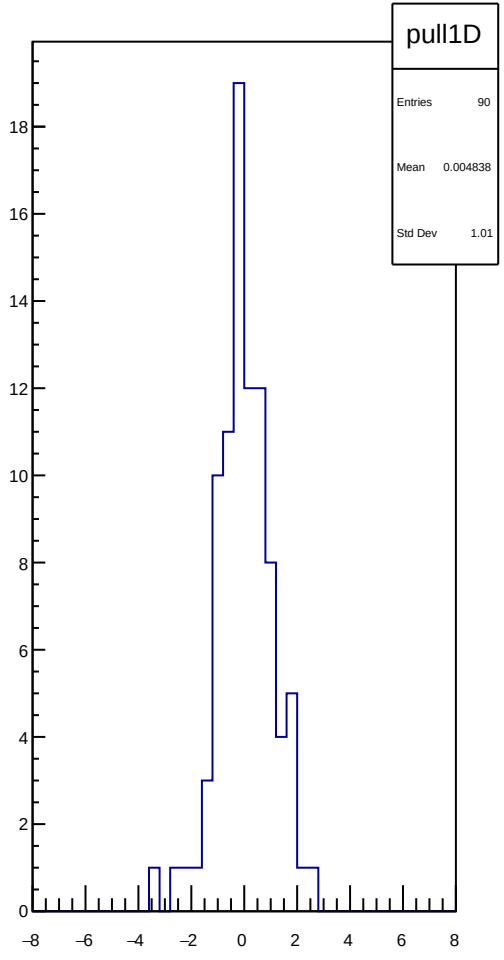

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 89
p0 45.38 ± 0.03666
160
140
120
100
80
60
40
20

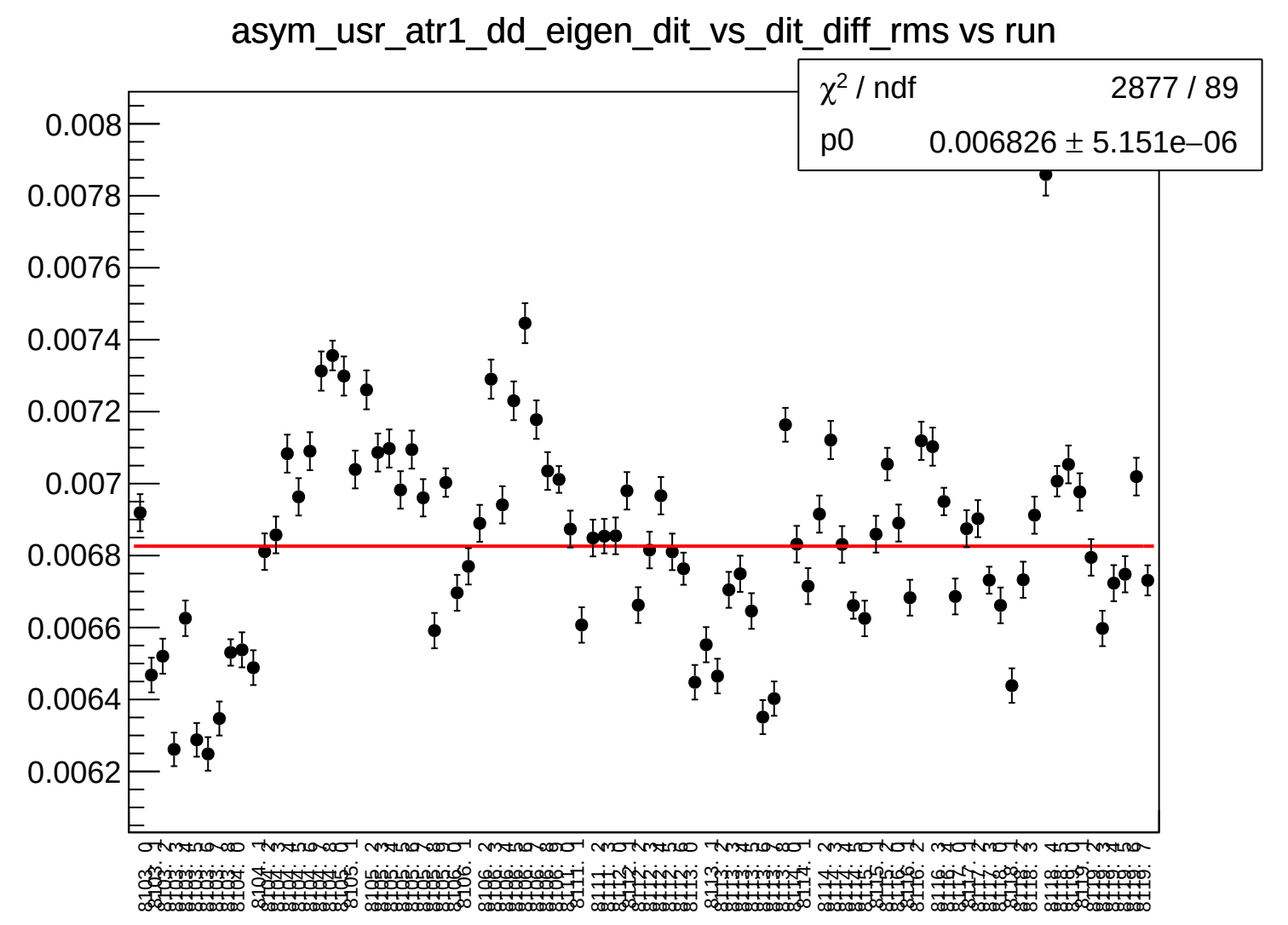

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.46 / 89
p0 −0.01677 ± 0.05184
pull
Entries 90
Mean 110.4
Std Dev 0

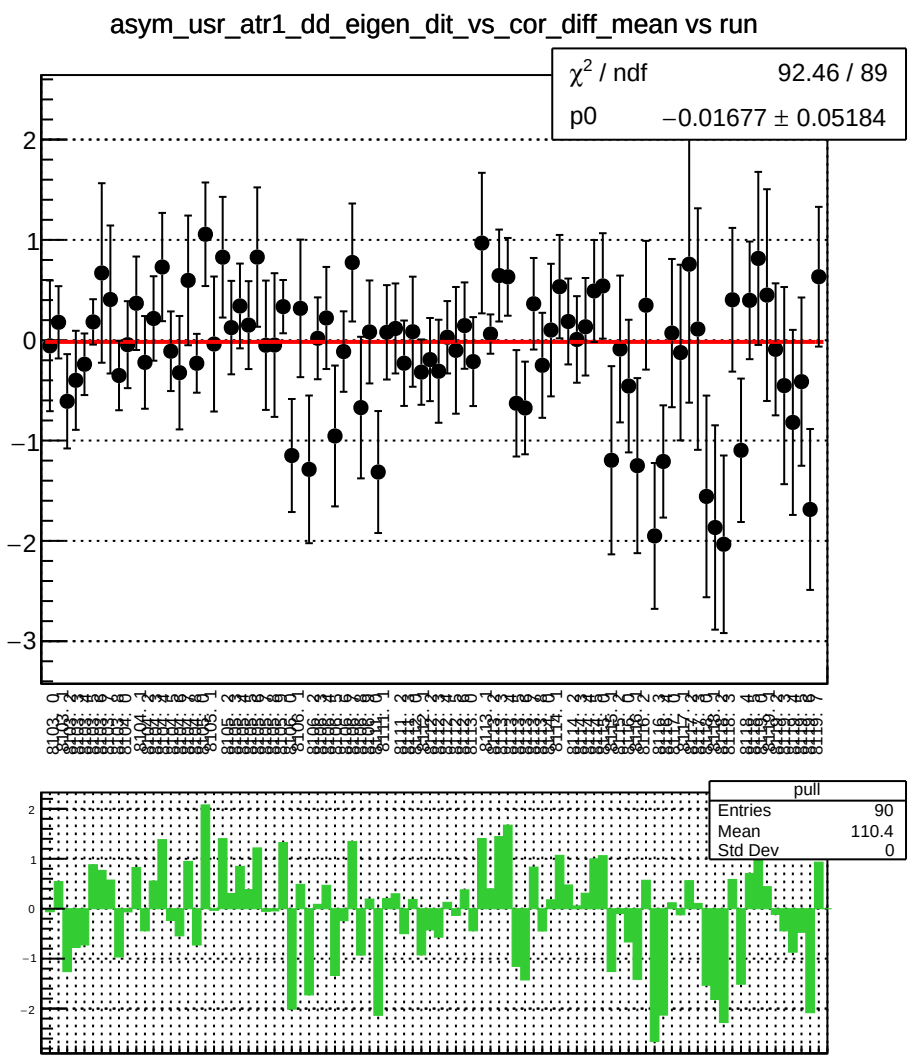

pull1D
Entries 90
Mean −0.07865
Std Dev 1.011

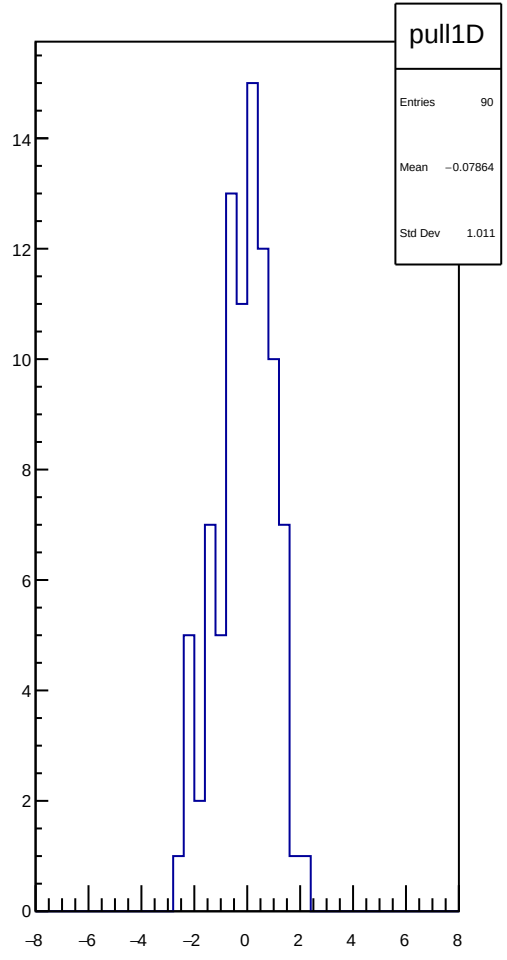

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.26e+05 / 89
p0 45.38 ± 0.03666
160
140
120
100
80
60
40
20

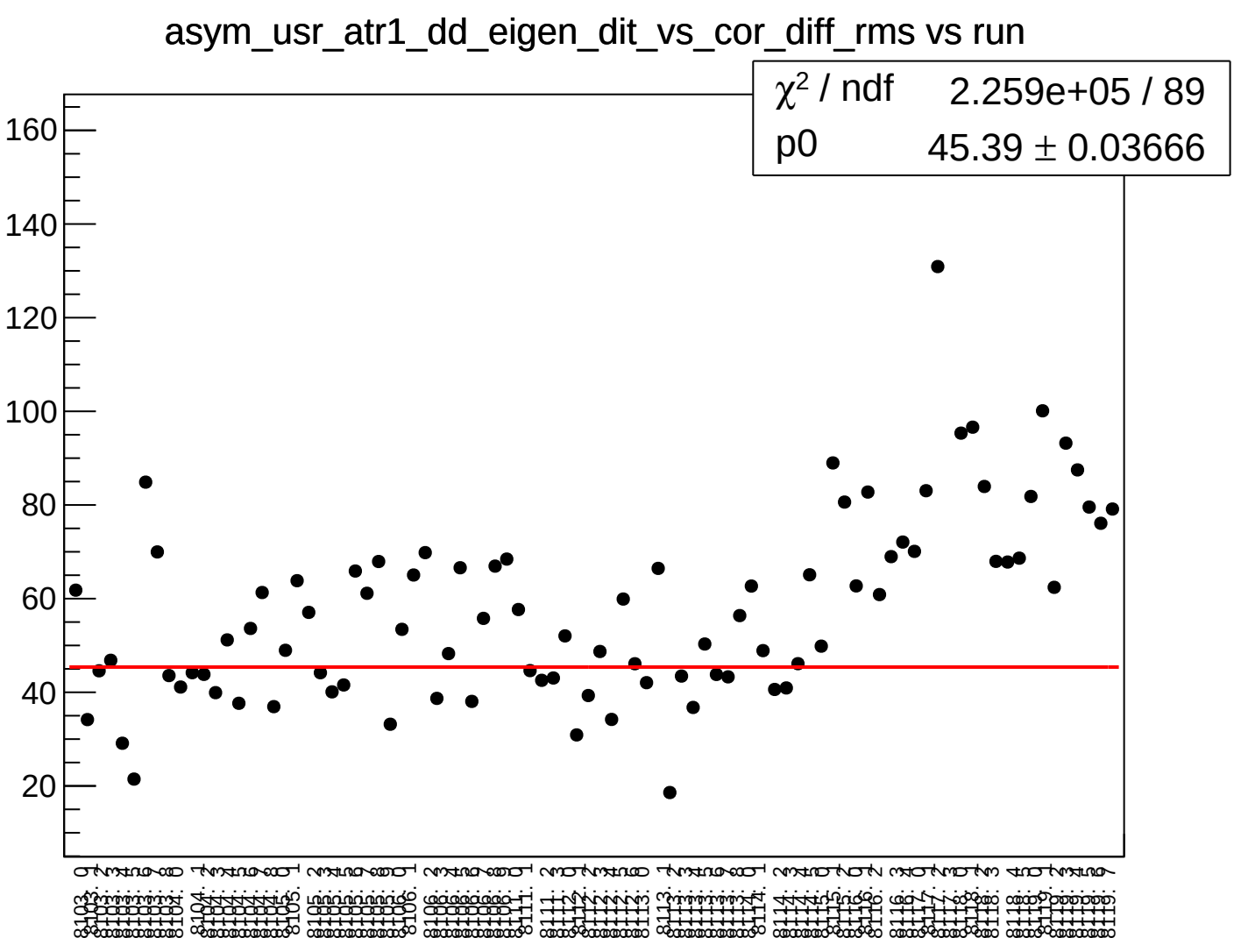

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.84 / 89
p0 1.214e−05 ± 7.285e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 90
Mean 1399
Std Dev 0
2
1
0
−1
−2
−3

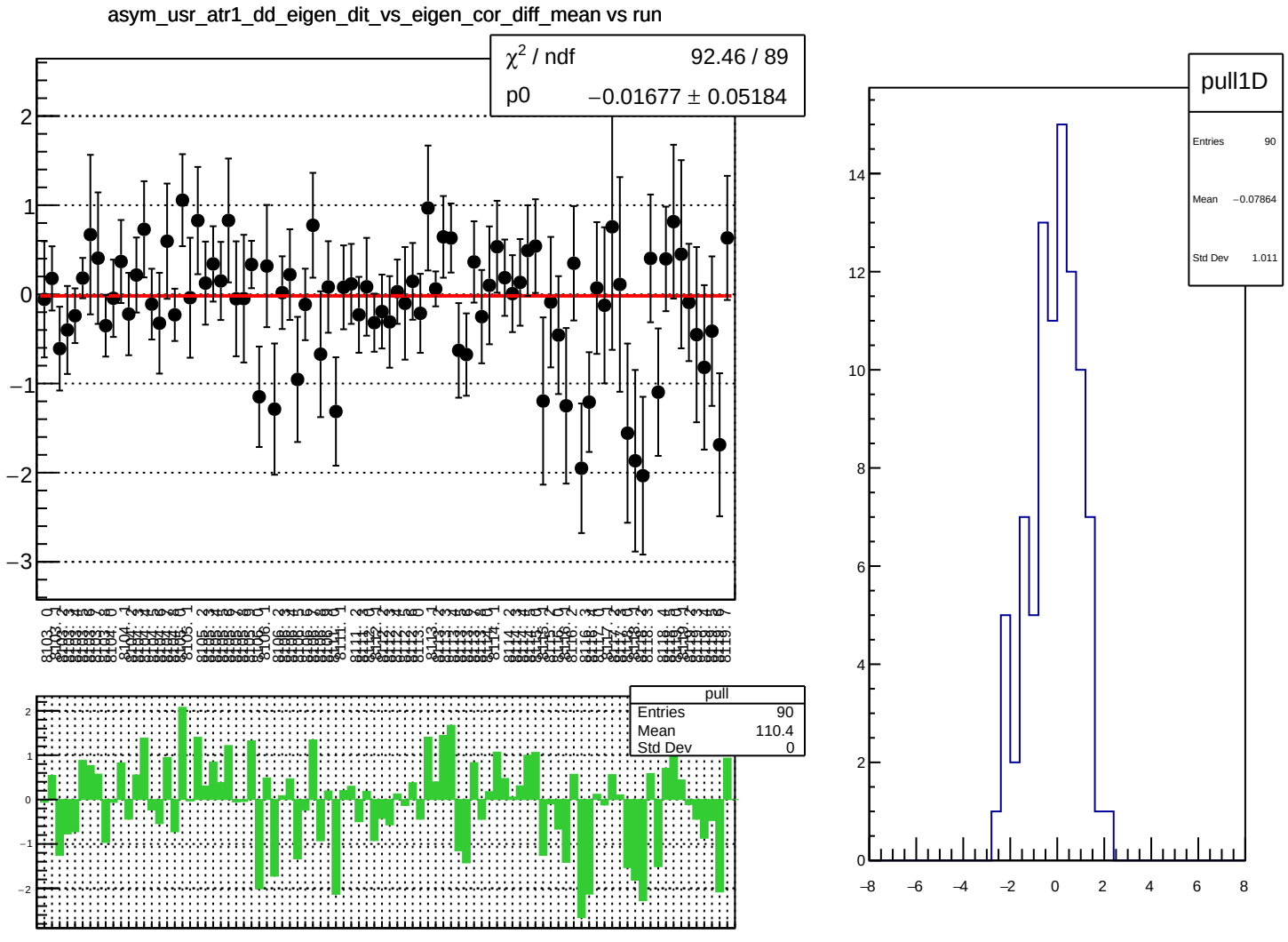

pull1D
Entries 90
Mean 0.004838
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

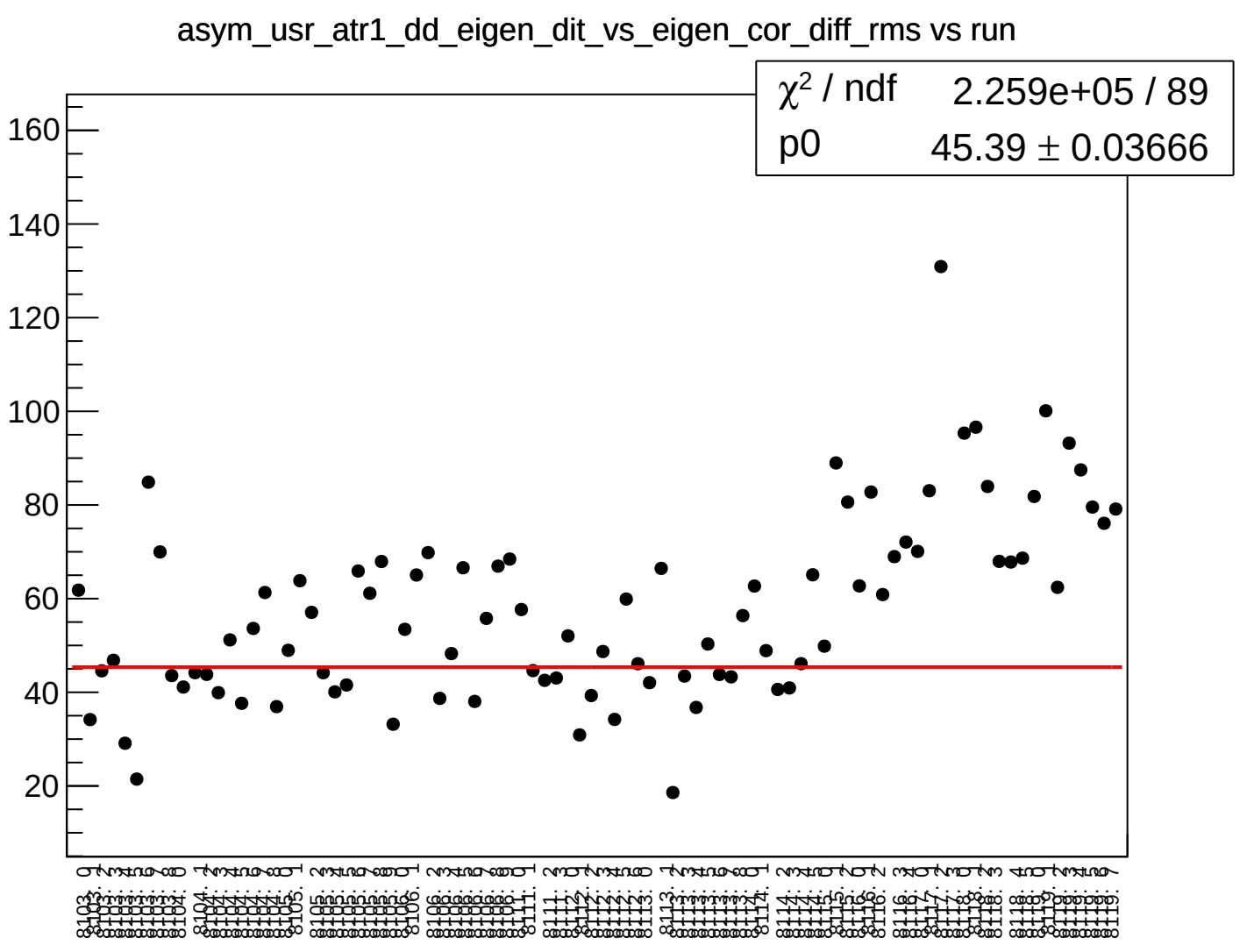

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2877 / 89
p0 0.006826 ± 5.151e−06
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

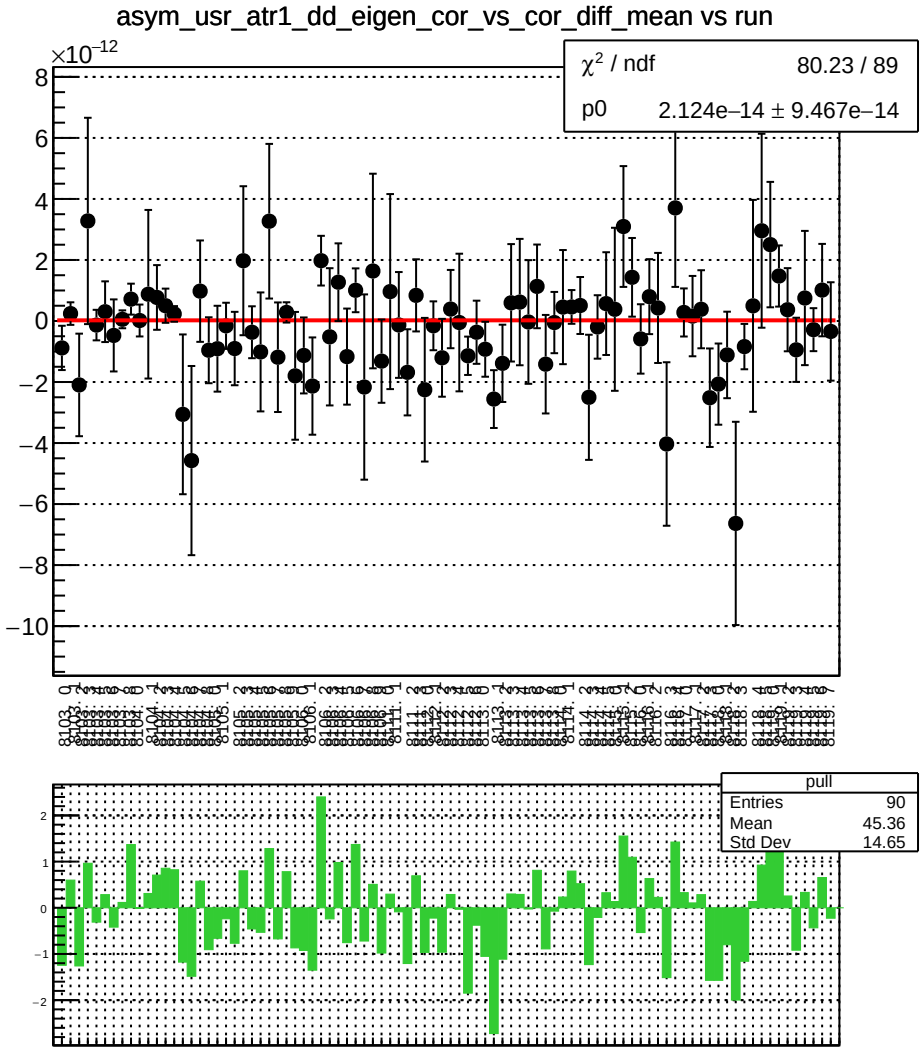

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.46 / 89
p0 −0.01677 ± 0.05184
pull
Entries 90
Mean 110.4
Std Dev 0

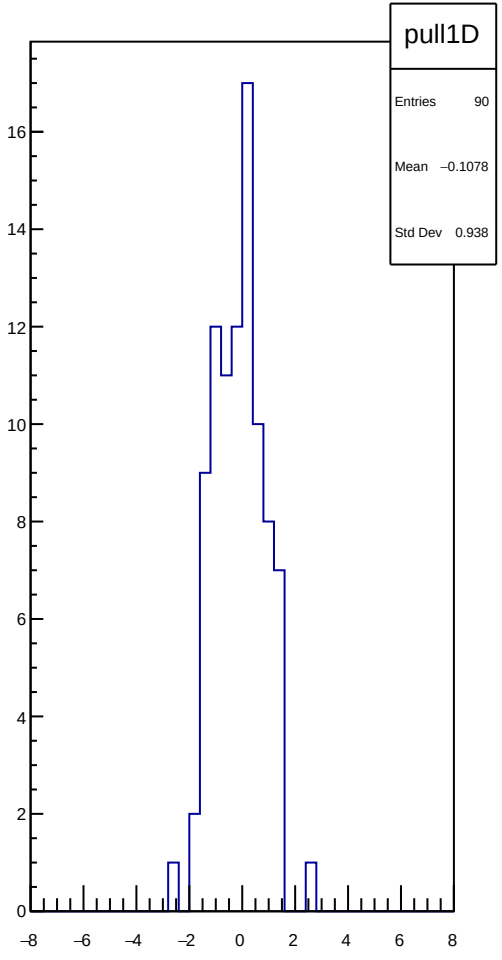

pull1D
Entries 90
Mean −0.07864
Std Dev 1.011

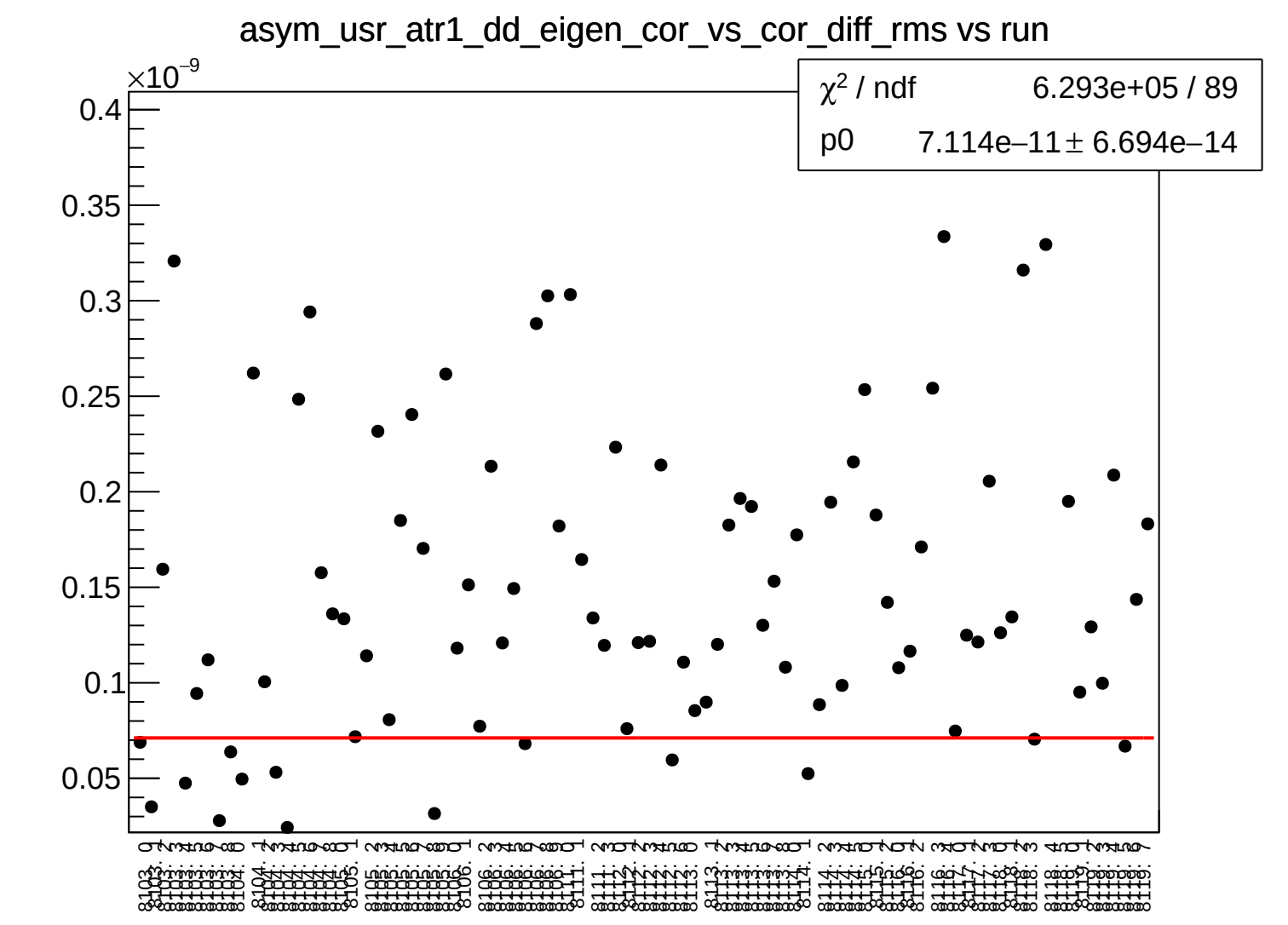

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.259e+05 / 89
p0 45.39 ± 0.03666
160
140
120
100
80
60
40
20

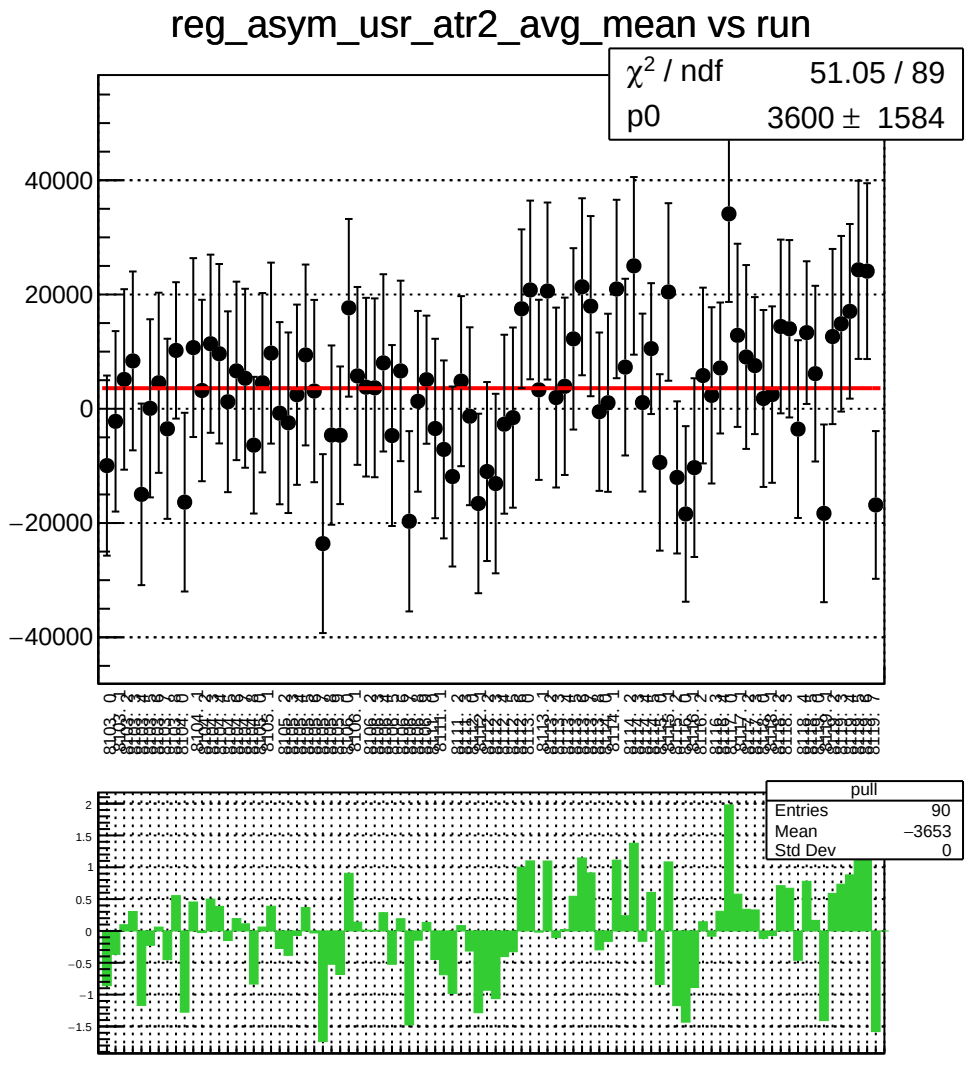

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.46 / 89
p0 −0.01677 ± 0.05184
pull
Entries 90
Mean 110.4
Std Dev 0
pull1D
Entries 90
Mean −0.07864
Std Dev 1.011

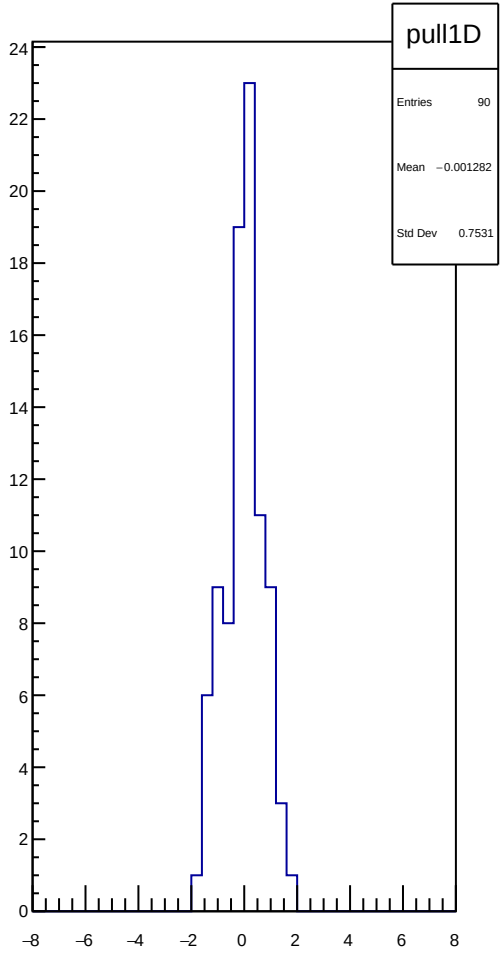

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.259e+05 / 89
p0 45.39 ± 0.03666
160
140
120
100
80
60
40
20

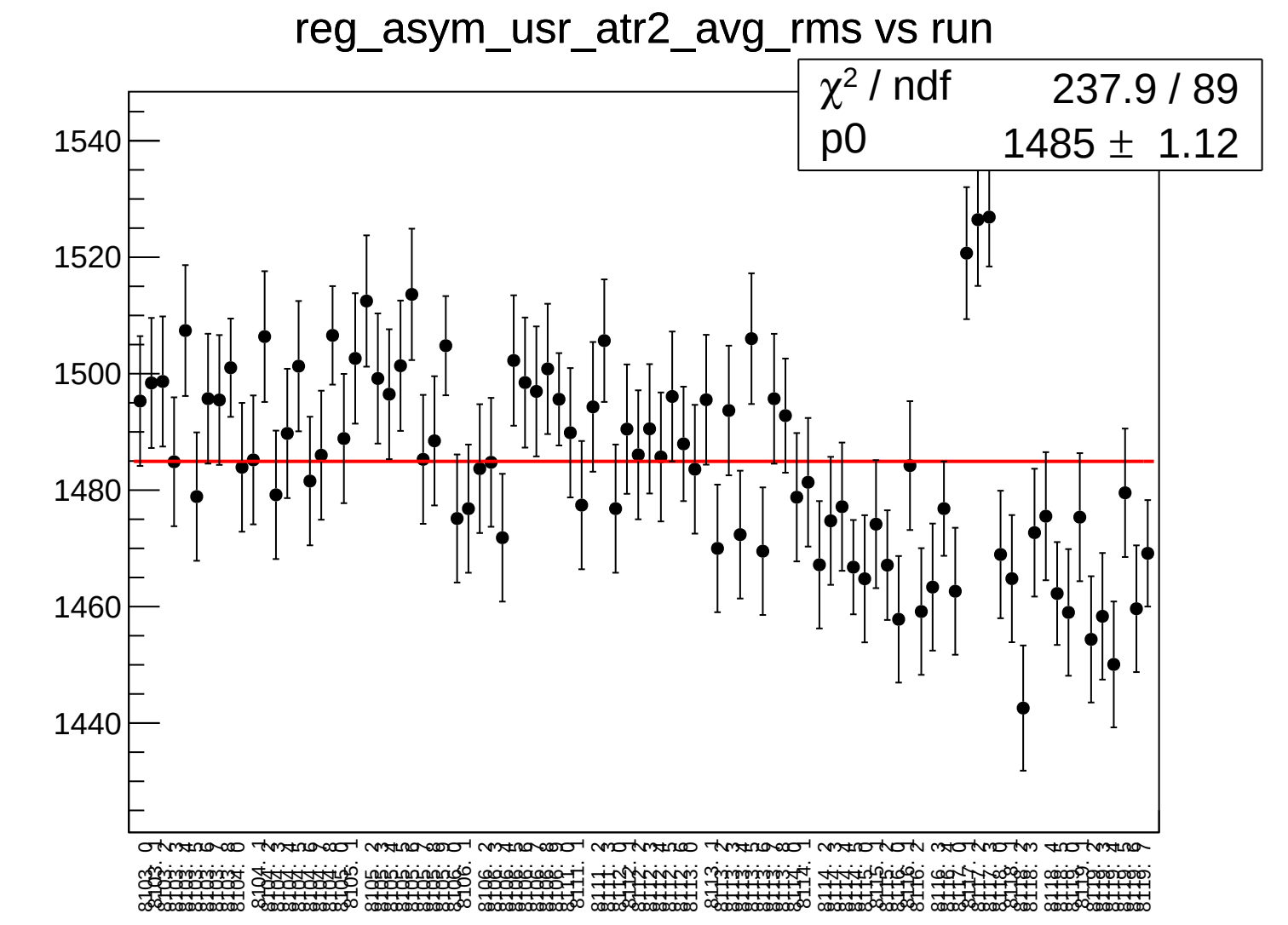

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.23 / 89
p0 2.124e−14 ± 9.467e−14
pull
Entries 90
Mean 45.36
Std Dev 14.65

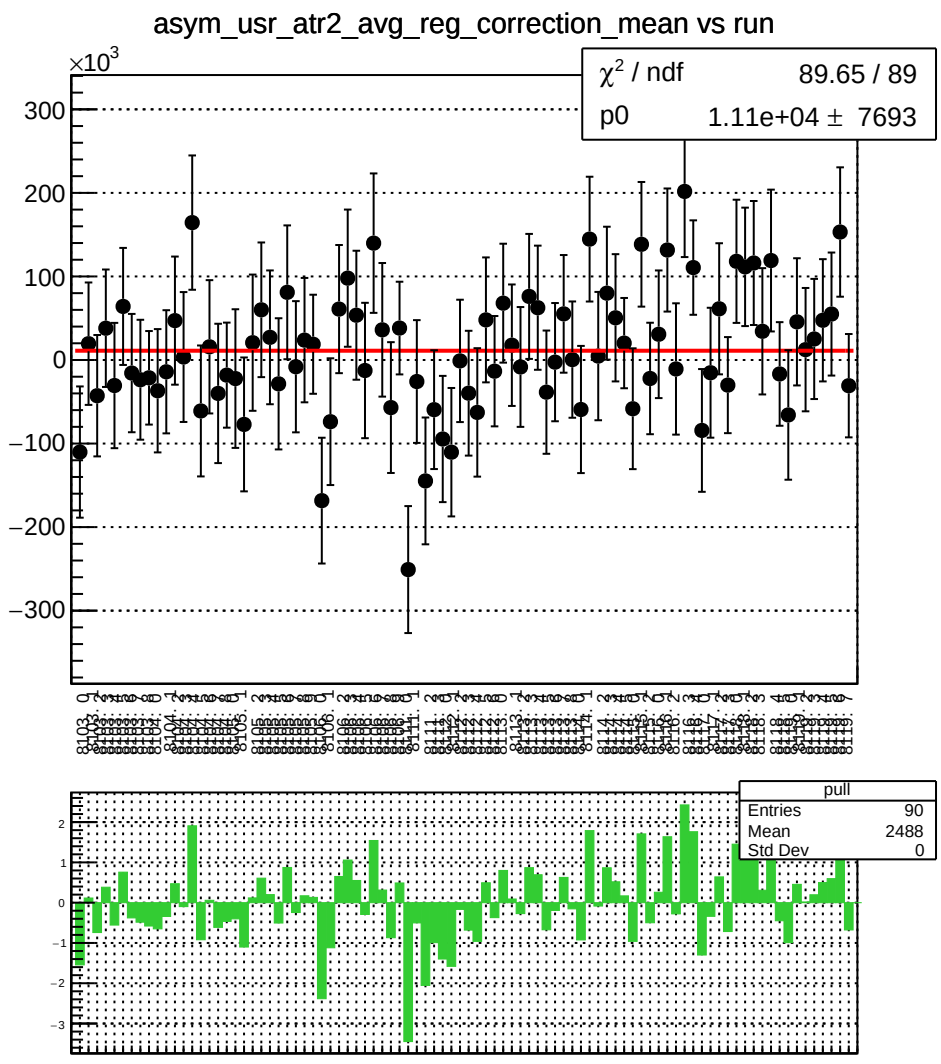

pull1D
Entries 90
Mean −0.1078
Std Dev 0.938

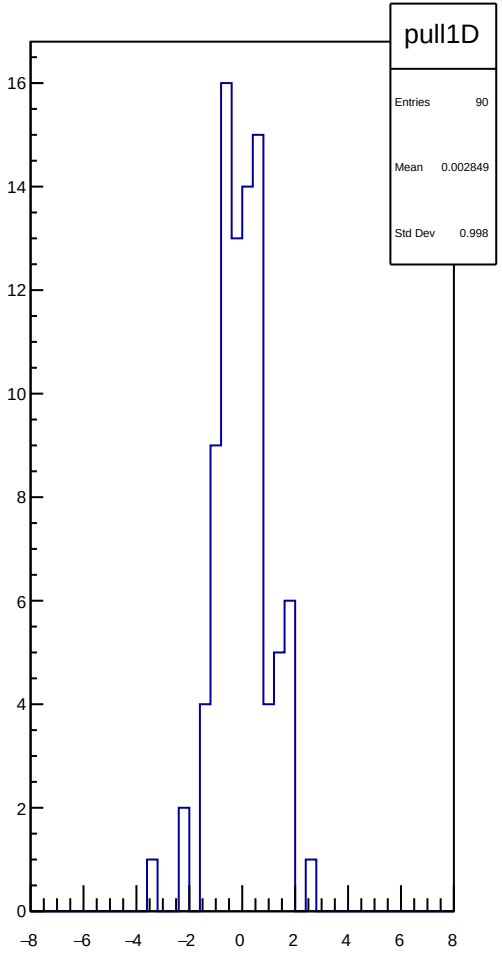

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.293e+05 / 89
p0 7.114e−11 ± 6.694e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

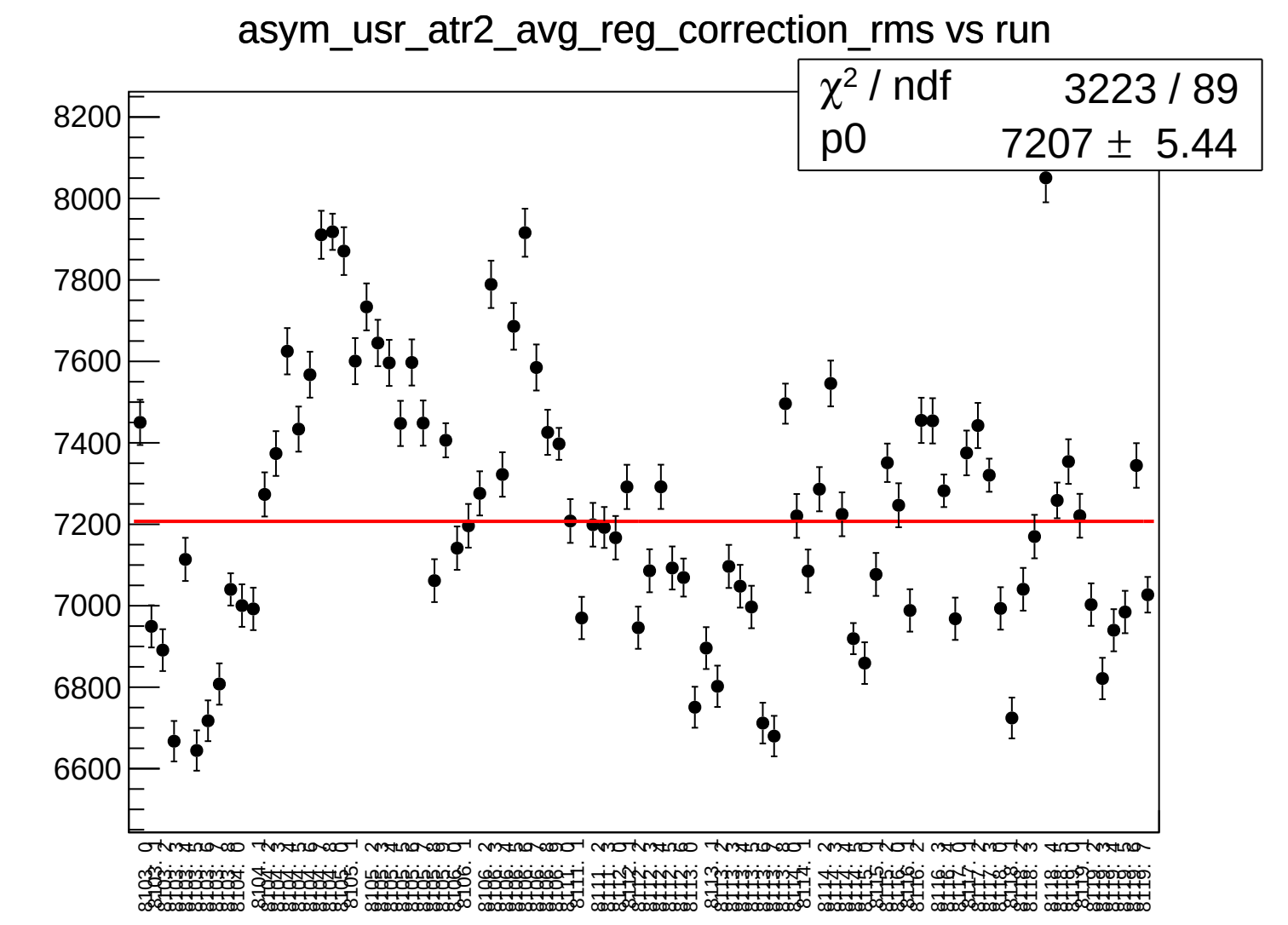

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.05 / 89
p0 3600 ± 1584
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −3653
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

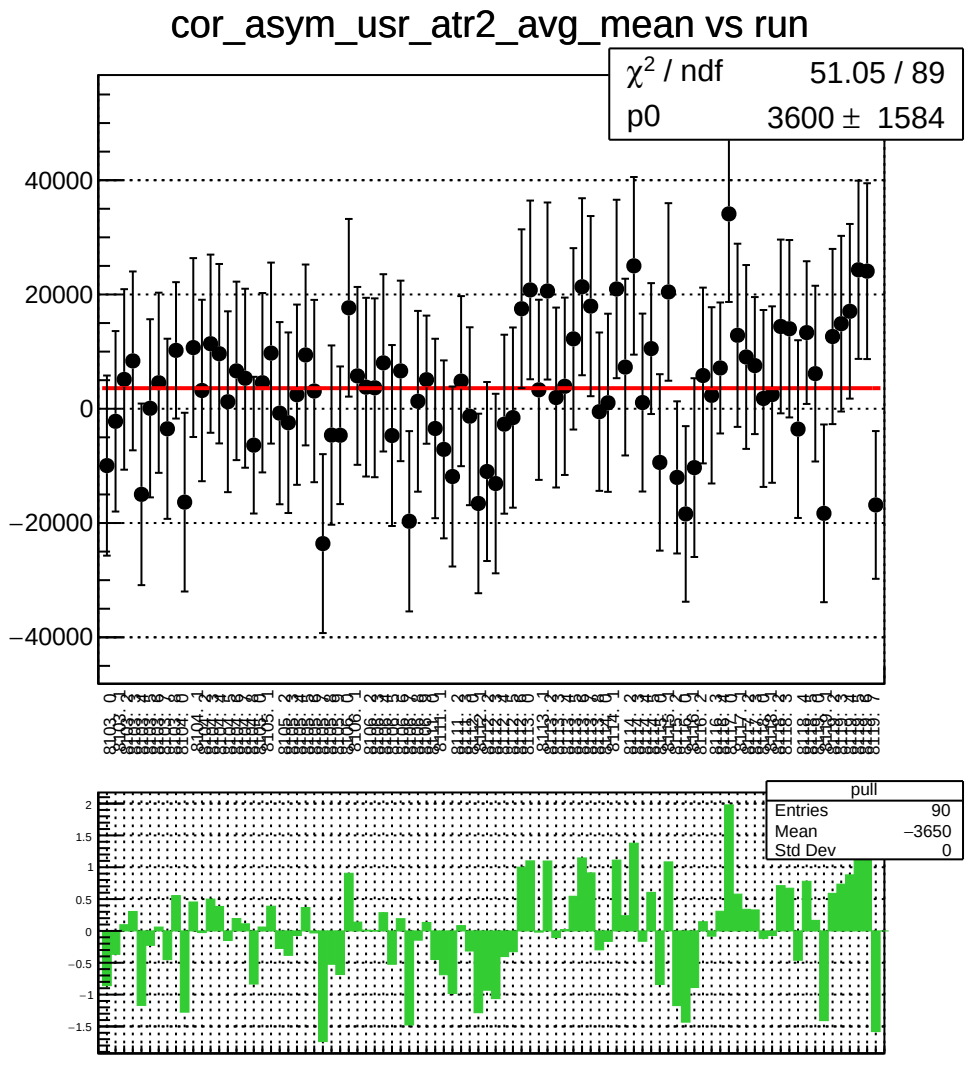

pull1D
Entries 90
Mean −0.001282
Std Dev 0.7531
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

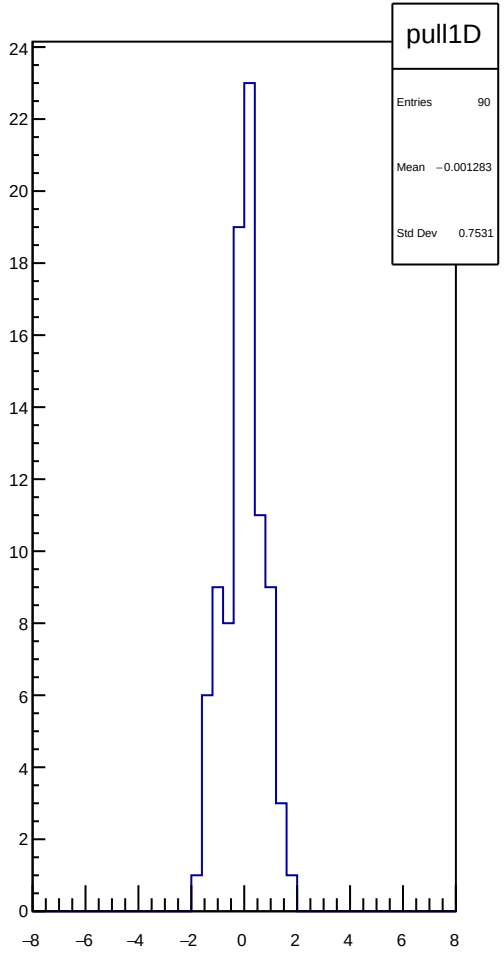

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 237.9 / 89
p0 1485 ± 1.12
1540
1520
1500
1480
1460
1440

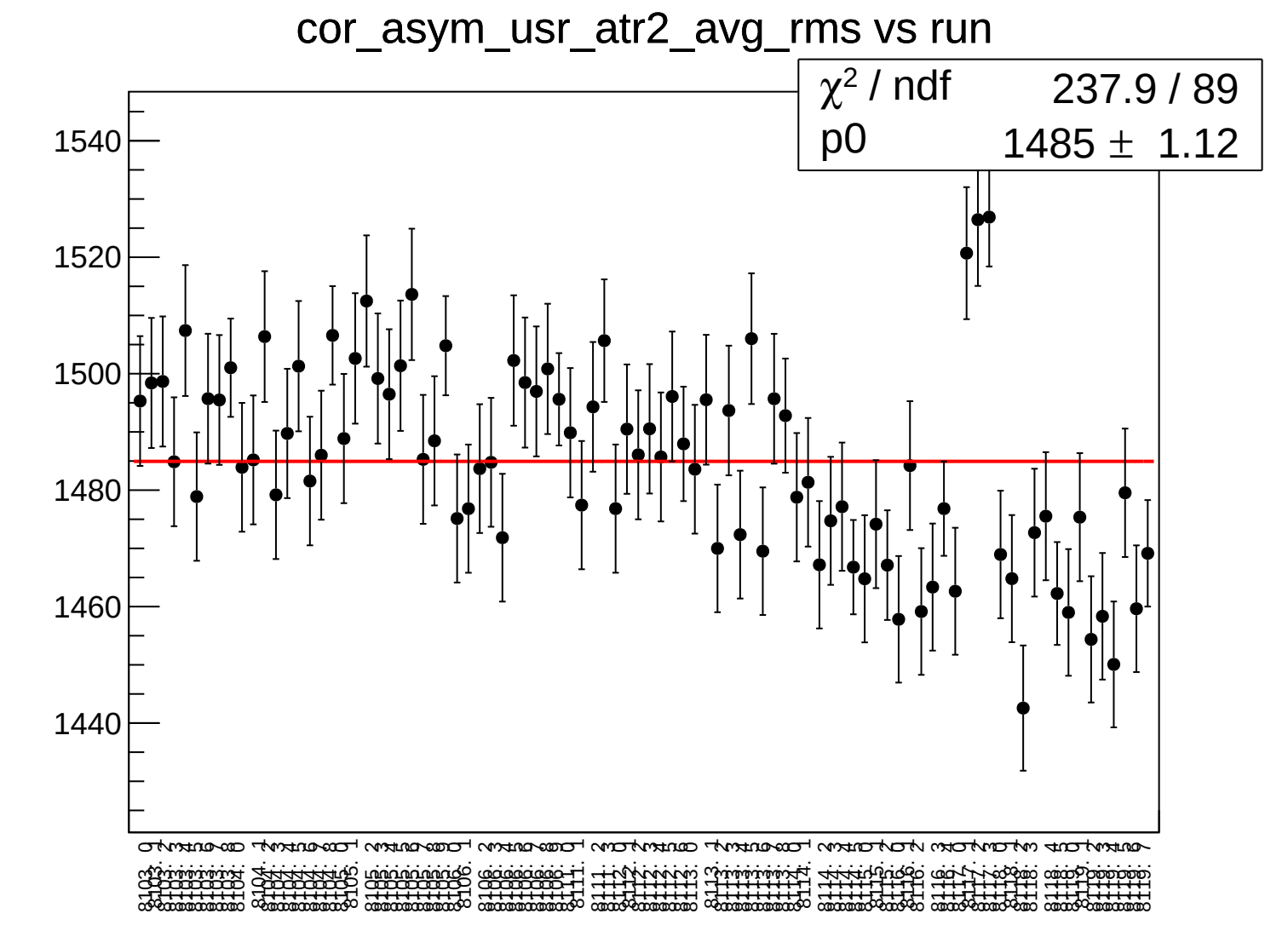

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.65 / 89
p0 1.11e+04 ± 7693
pull
Entries 90
Mean 2488
Std Dev 0

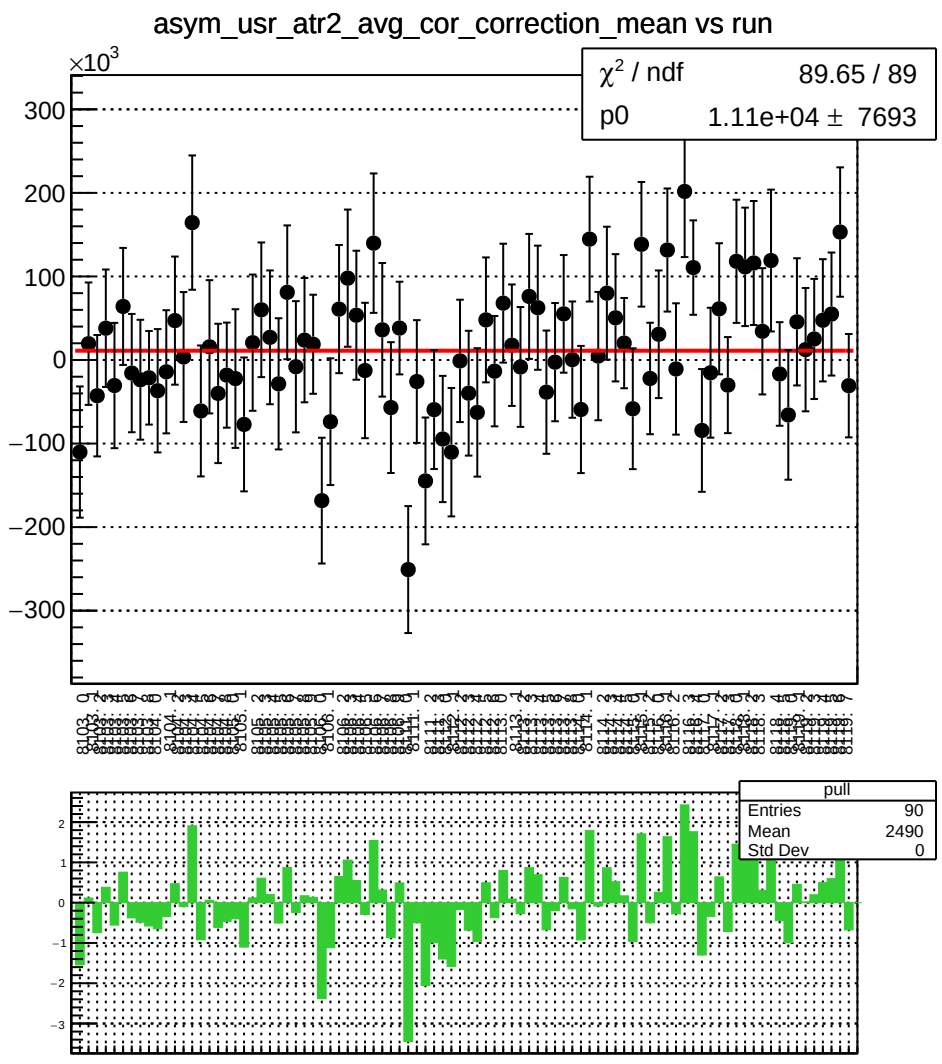

pull1D
Entries 90
Mean 0.002849
Std Dev 0.998

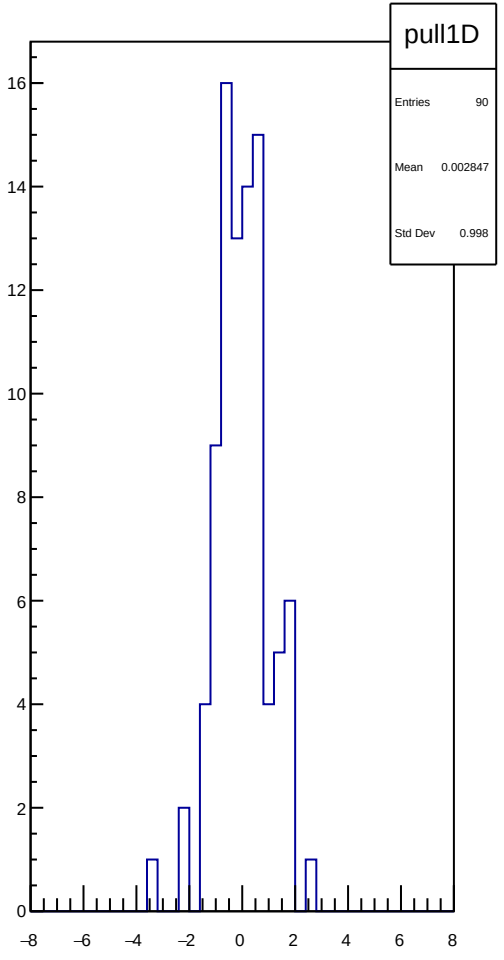

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3223 / 89
p0 7207 ± 5.44
8200
8000
7800
7600
7400
7200
7000
6800
6600

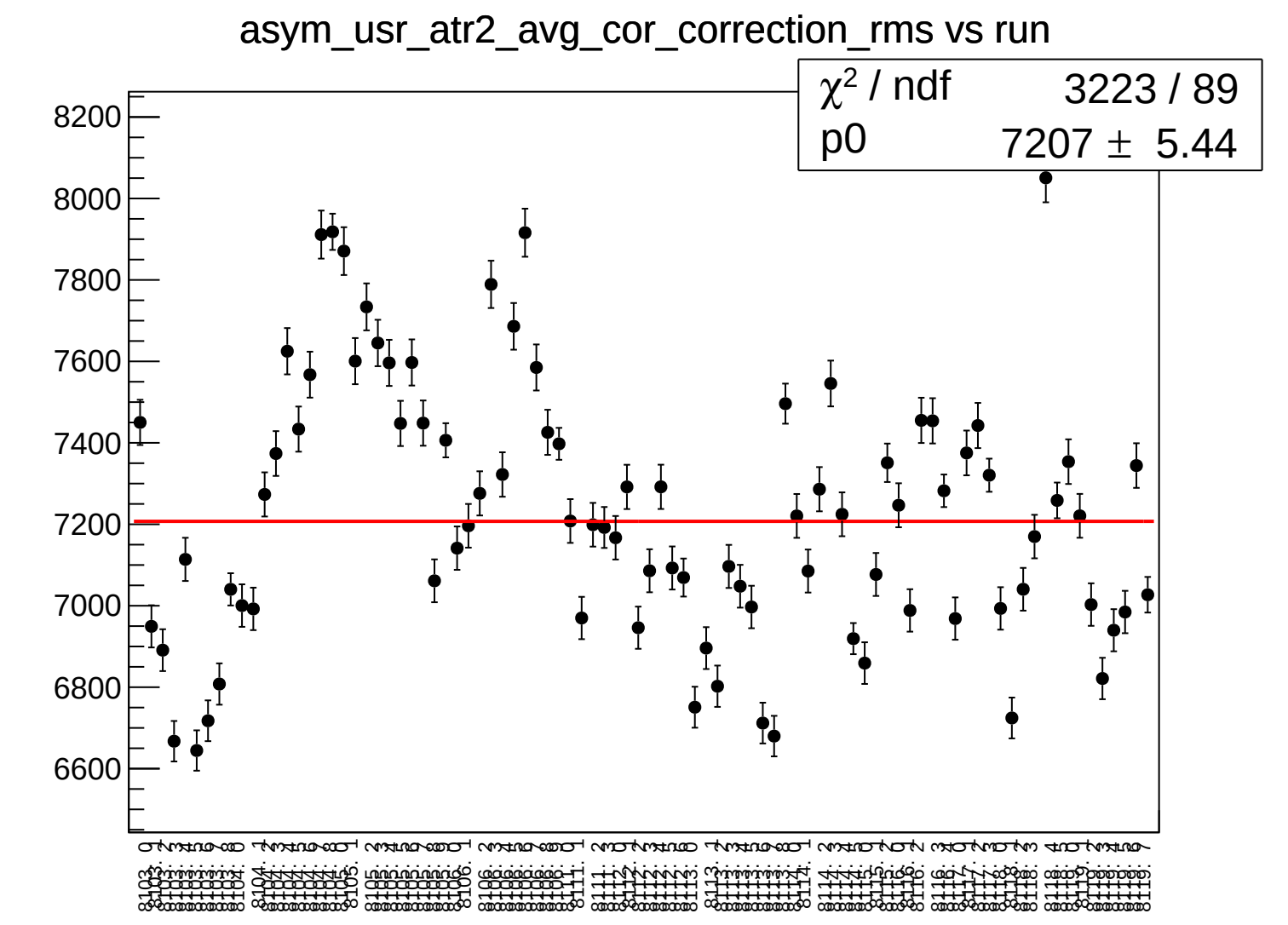

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.05 / 89
p0 3600 ± 1584
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −3650
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

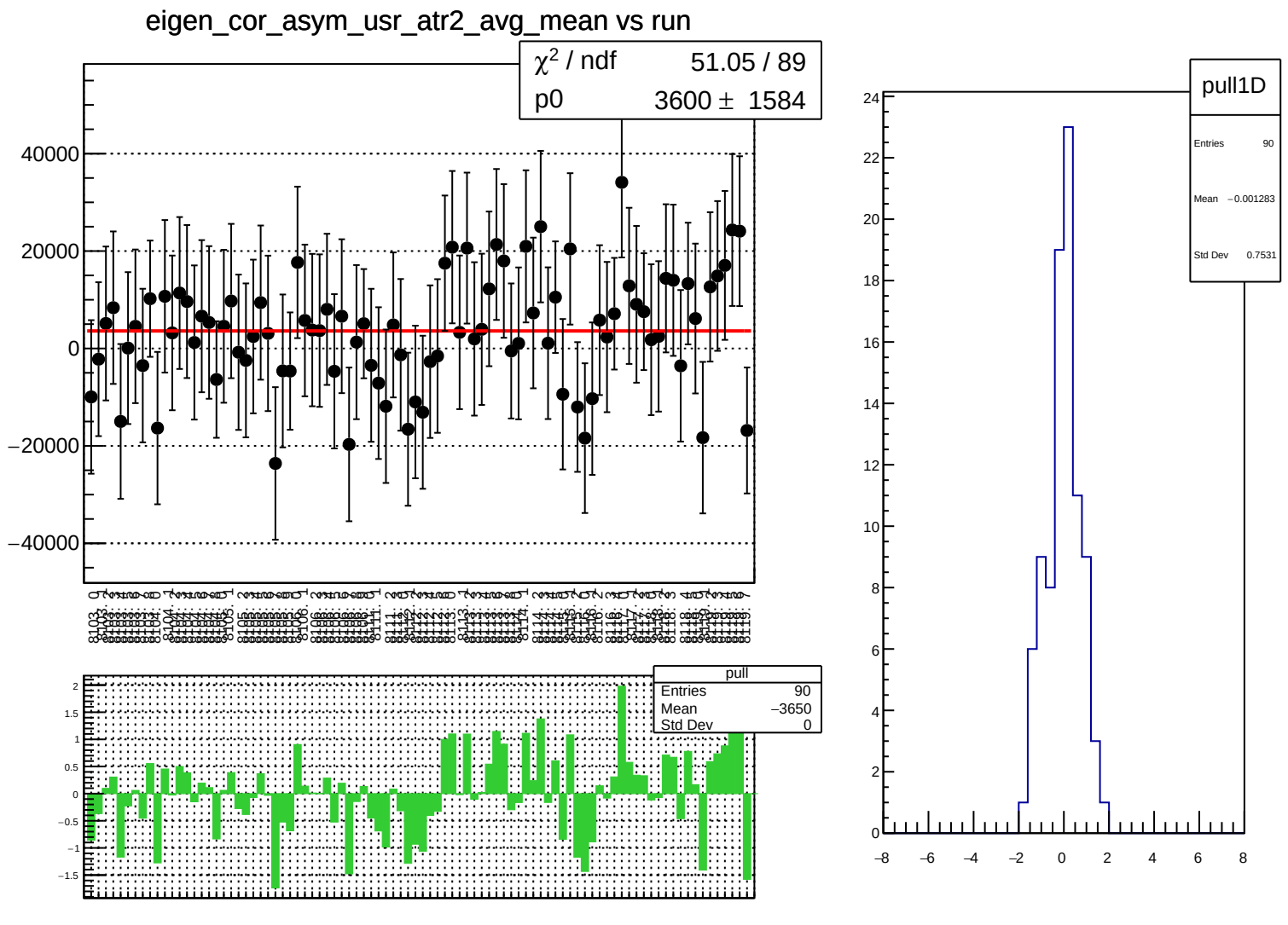

pull1D
Entries 90
Mean −0.001283
Std Dev 0.7531
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

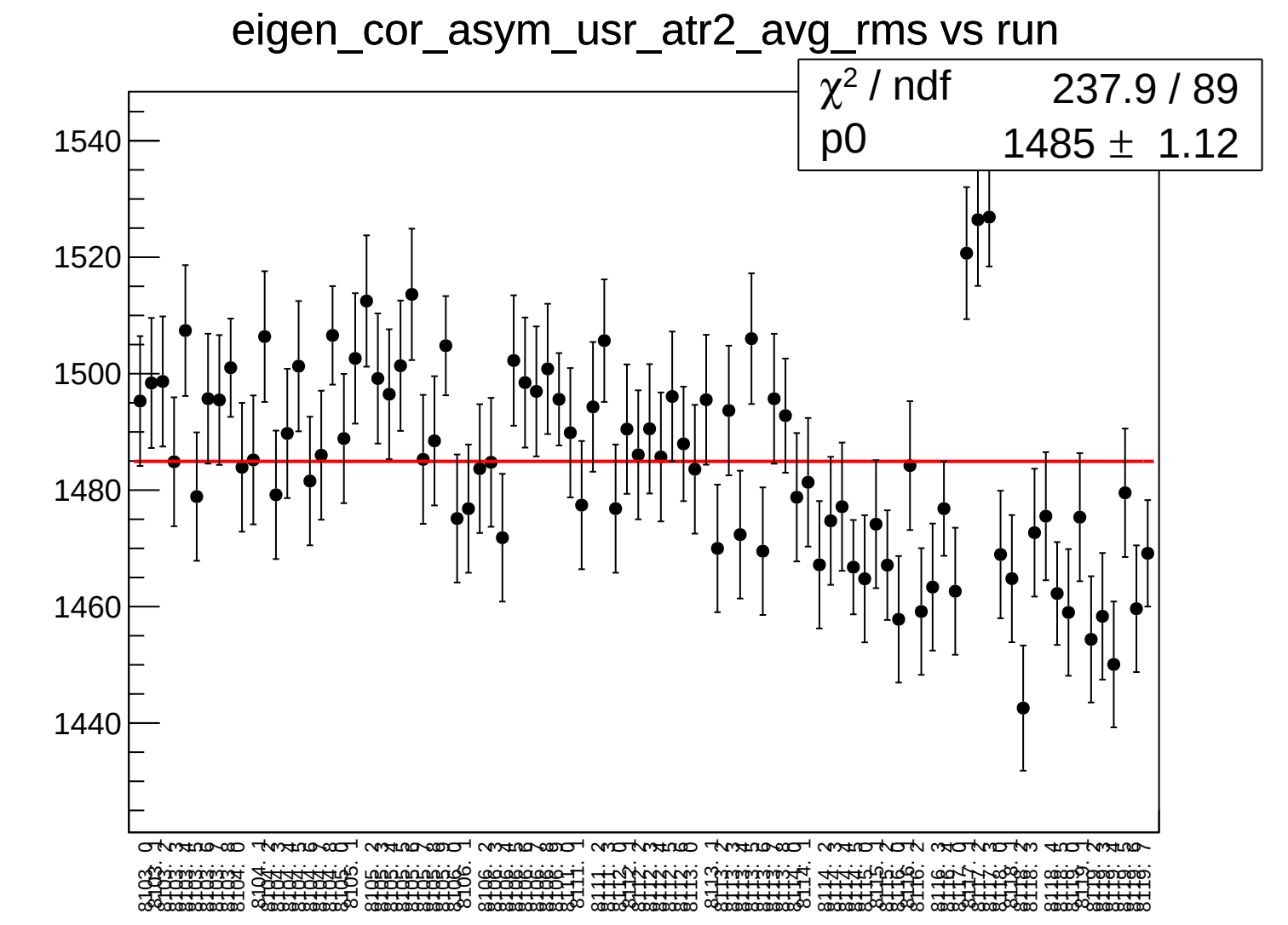

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 237.9 / 89
p0 1485 ± 1.12
1540
1520
1500
1480
1460
1440

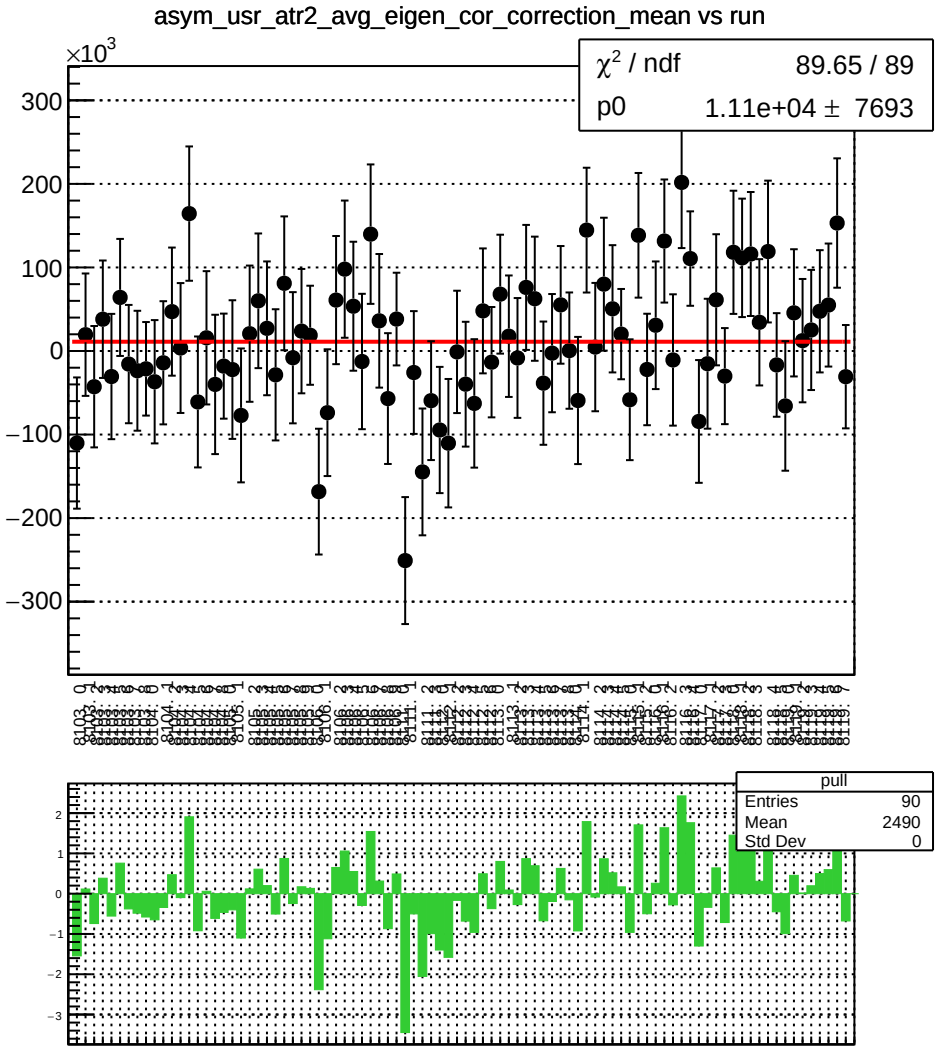

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.65 / 89
p0 1.11e+04 ± 7693
pull
Entries 90
Mean 2490
Std Dev 0

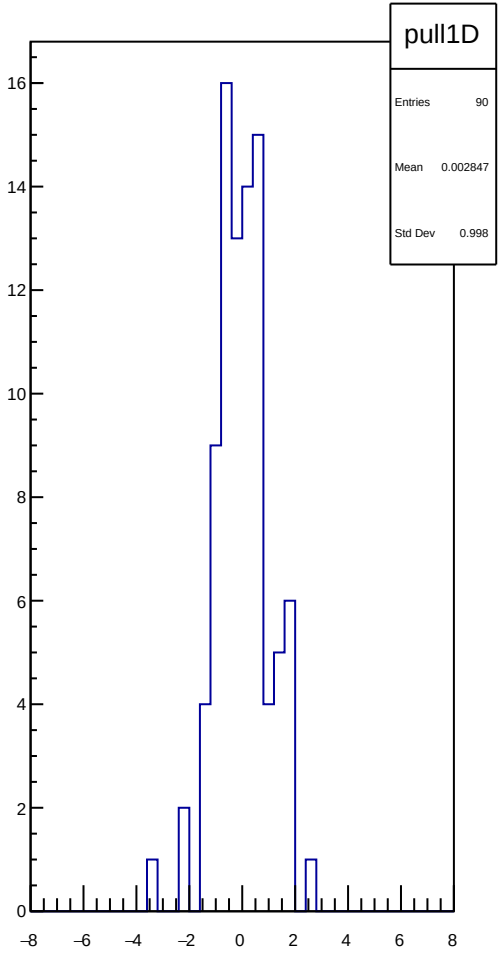

pull1D
Entries 90
Mean 0.002847
Std Dev 0.998

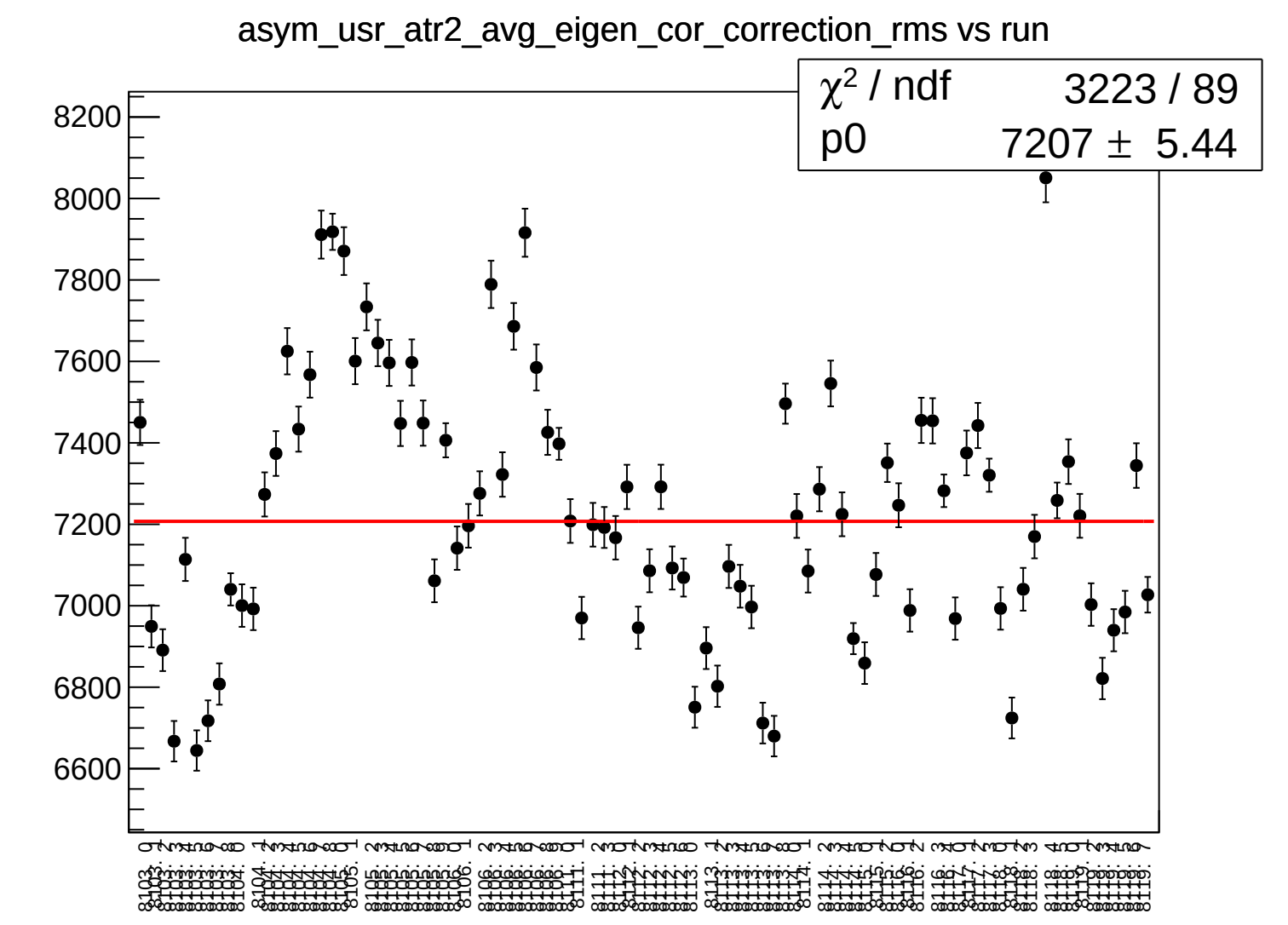

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 3223 / 89
p0 7207 ± 5.44
8200
8000
7800
7600
7400
7200
7000
6800
6600

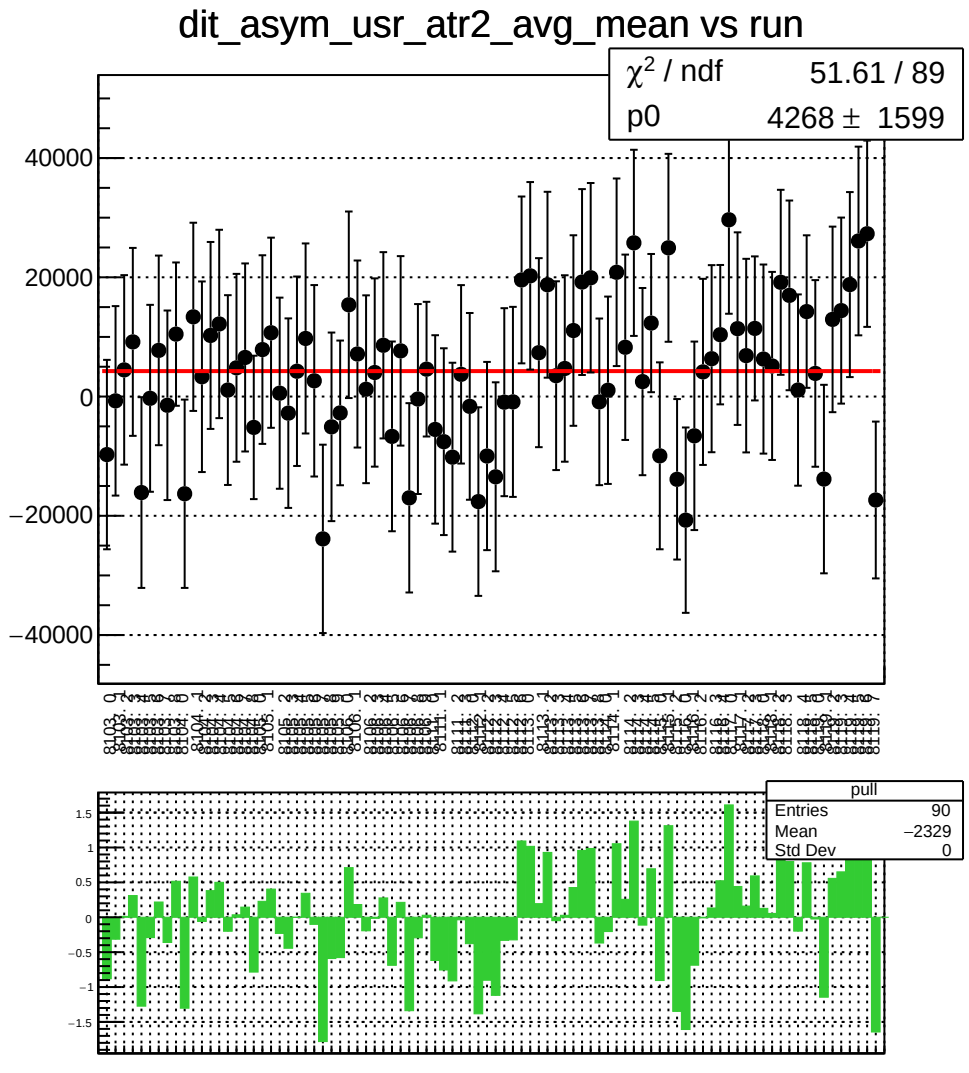

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.05 / 89
p0 3600 ± 1584
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −3650
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.001283
Std Dev 0.7531
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

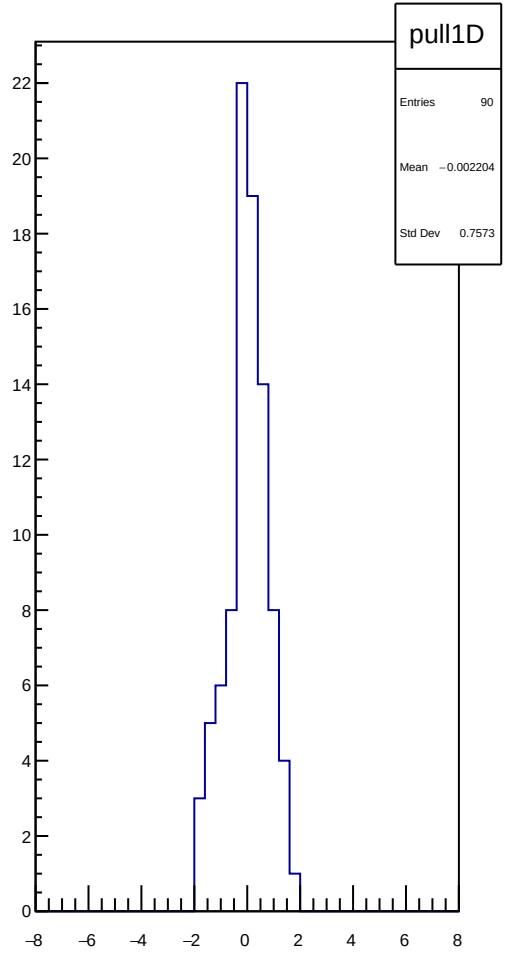

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 237.9 / 89
p0 1485 ± 1.12
1540
1520
1500
1480
1460
1440

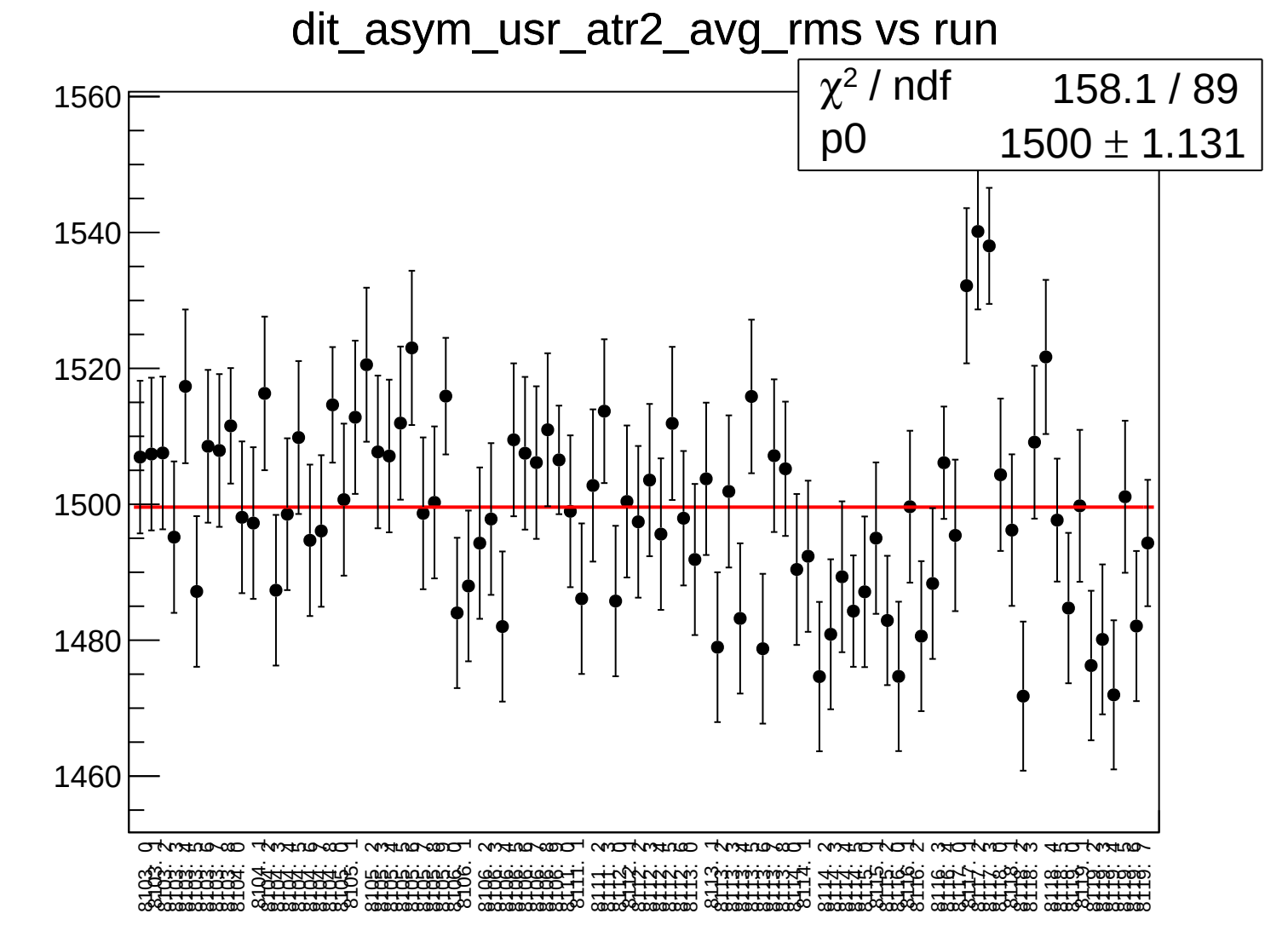

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.65 / 89
p0 1.11e+04 ± 7693
pull
Entries 90
Mean 2490
Std Dev 0

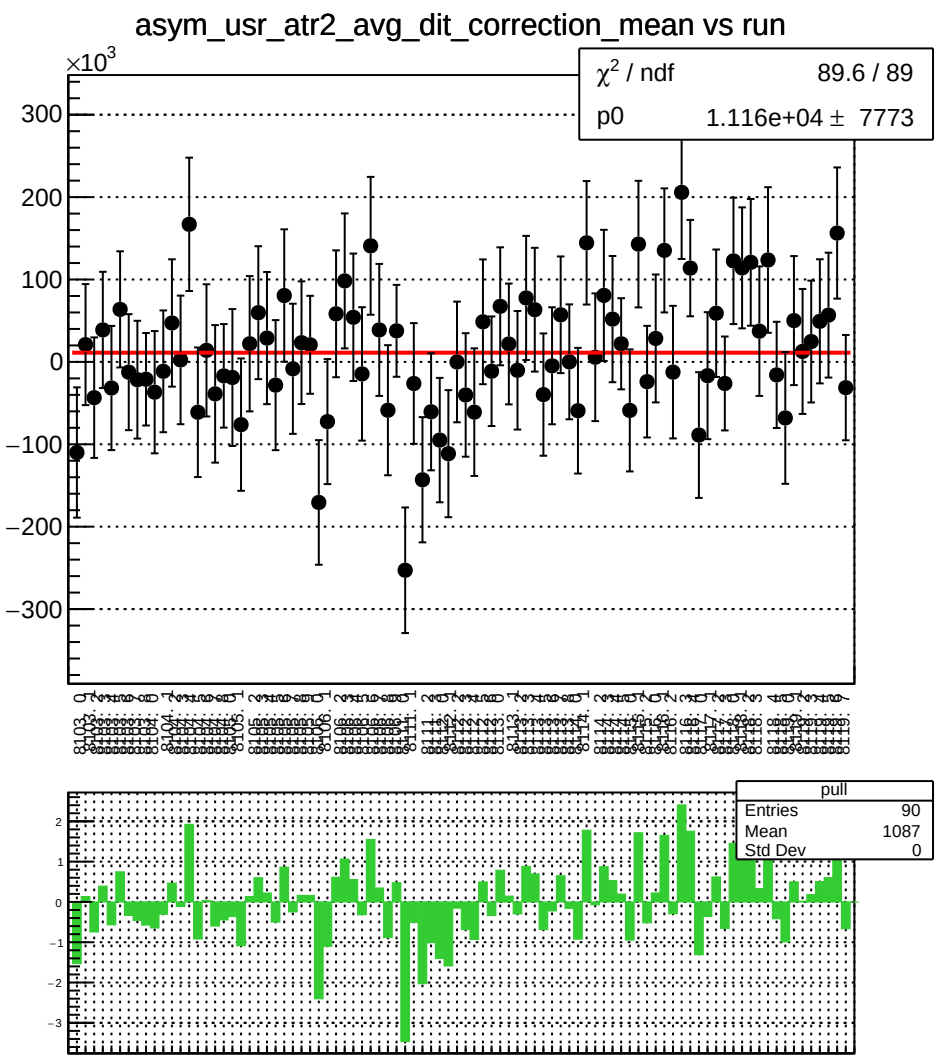

pull1D
Entries 90
Mean 0.002847
Std Dev 0.998

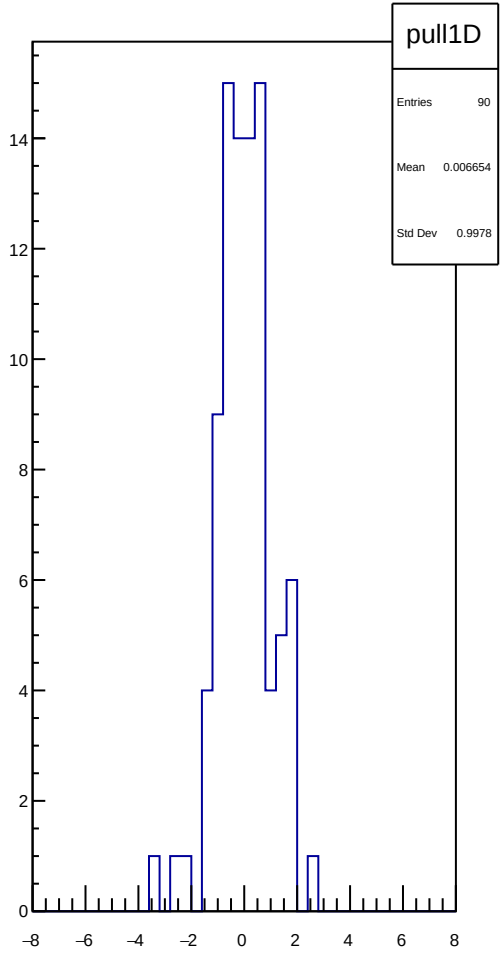

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3223 / 89
p0 7207 ± 5.44
8200
8000
7800
7600
7400
7200
7000
6800
6600

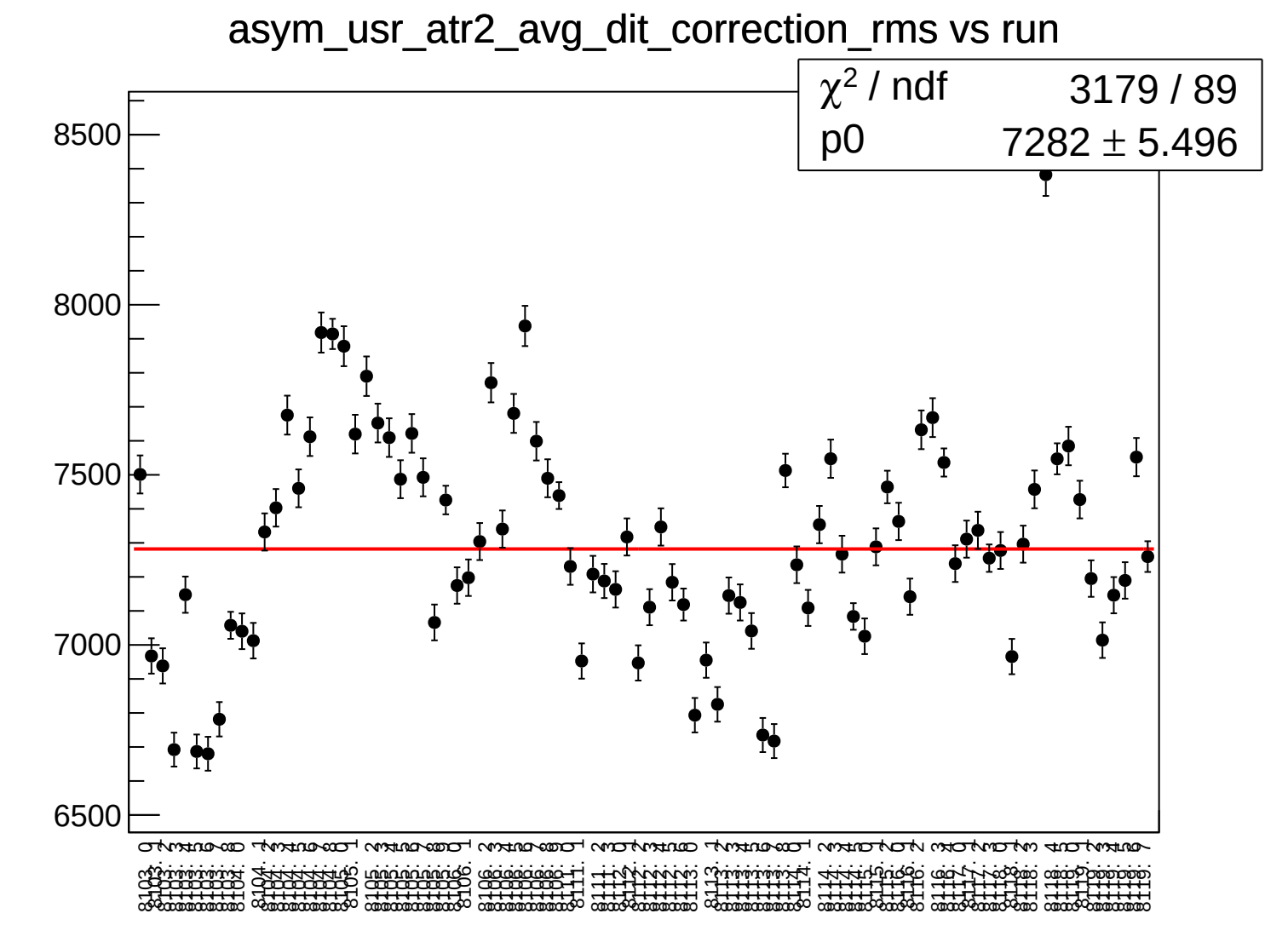

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.61 / 89
p0 4268 ± 1599
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −2329
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

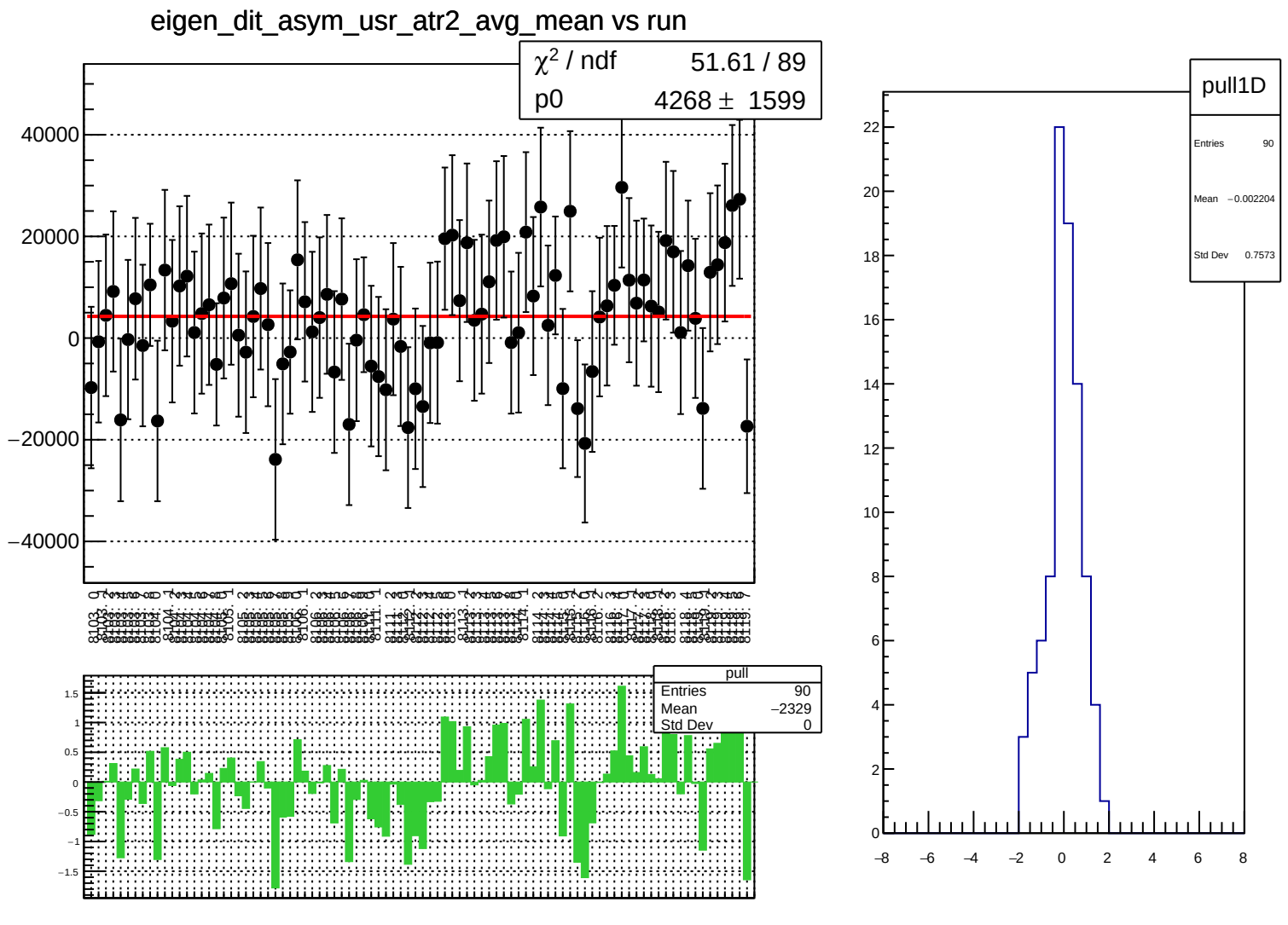

pull1D
Entries 90
Mean −0.002204
Std Dev 0.7573
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

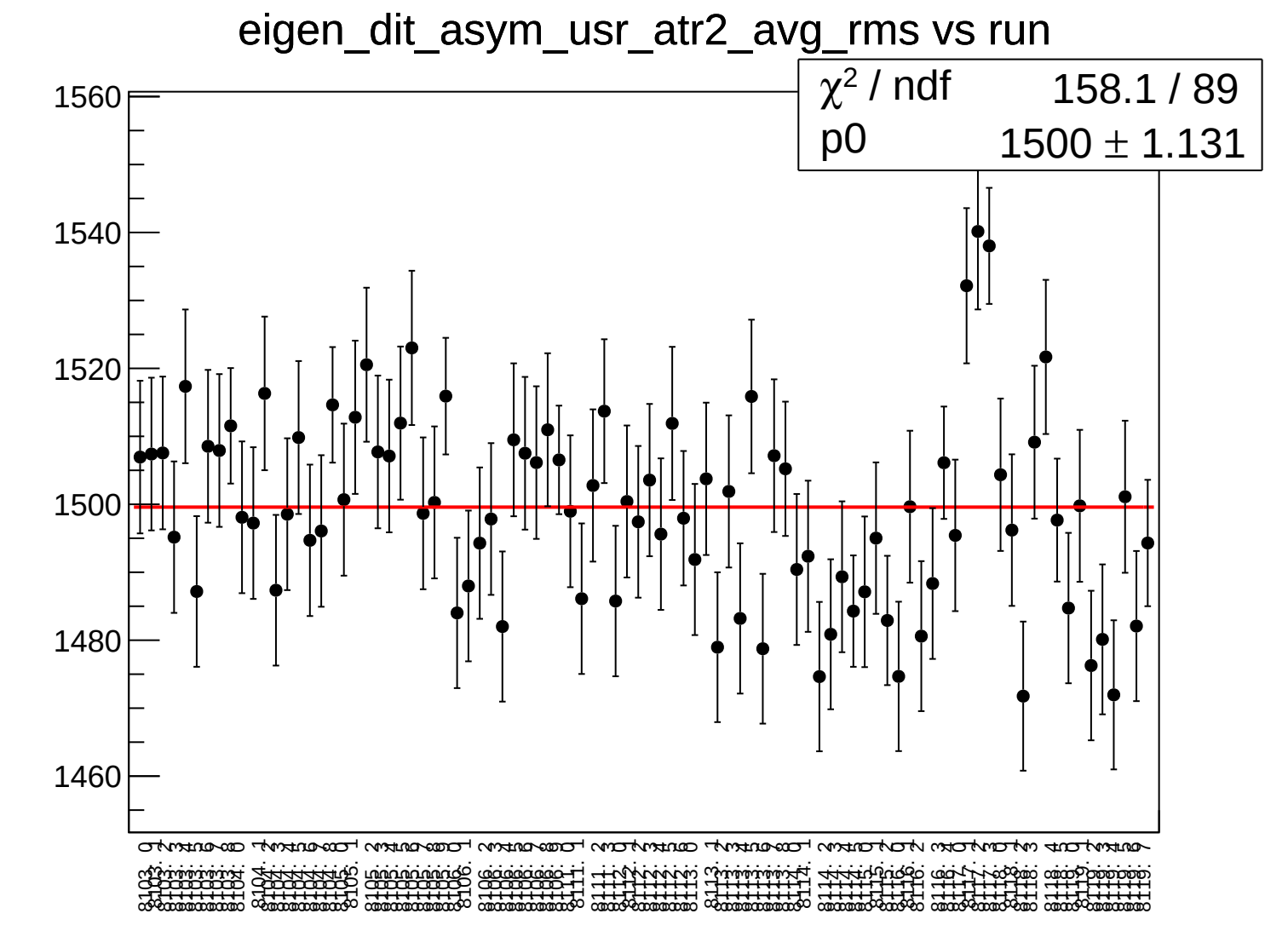

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 158.1 / 89
p0 1500 ± 1.131
1560
1540
1520
1500
1480
1460

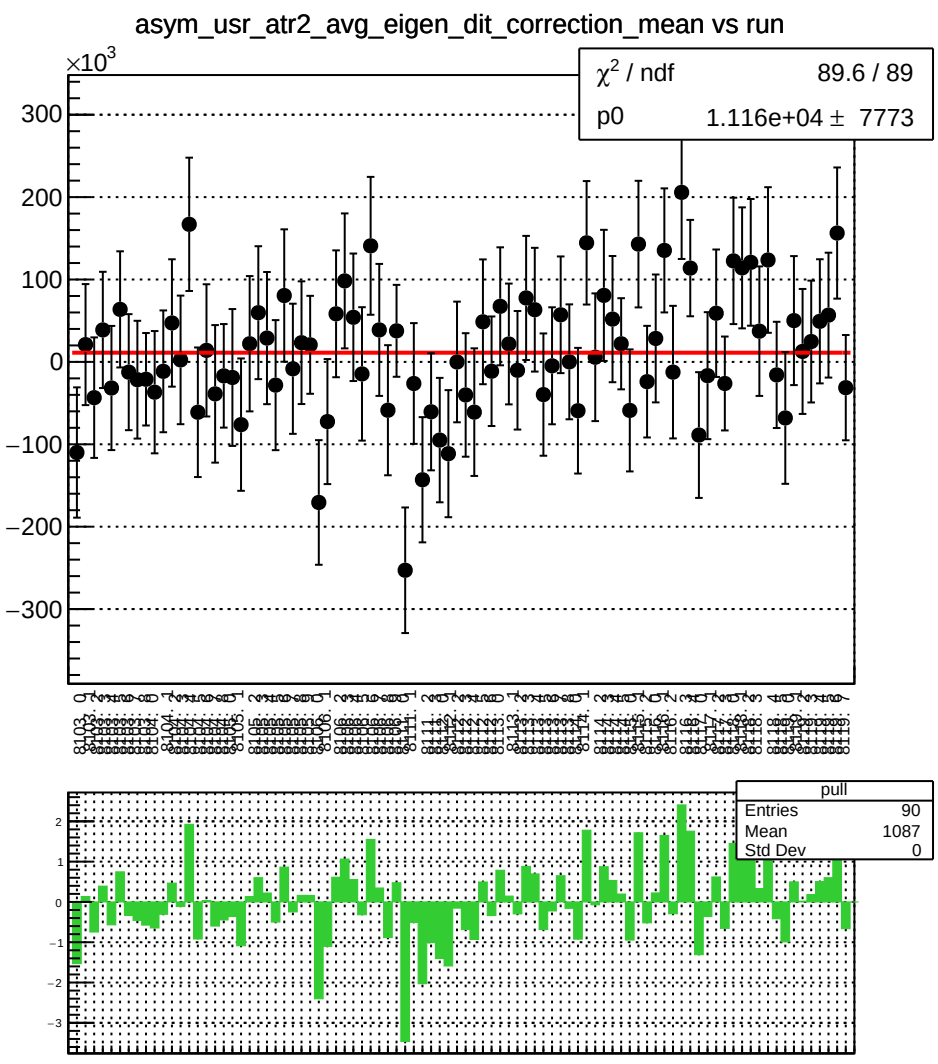

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.6 / 89
p0 1.116e+04 ± 7773
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean 1087
Std Dev 0
2
1
0
−1
−2
−3

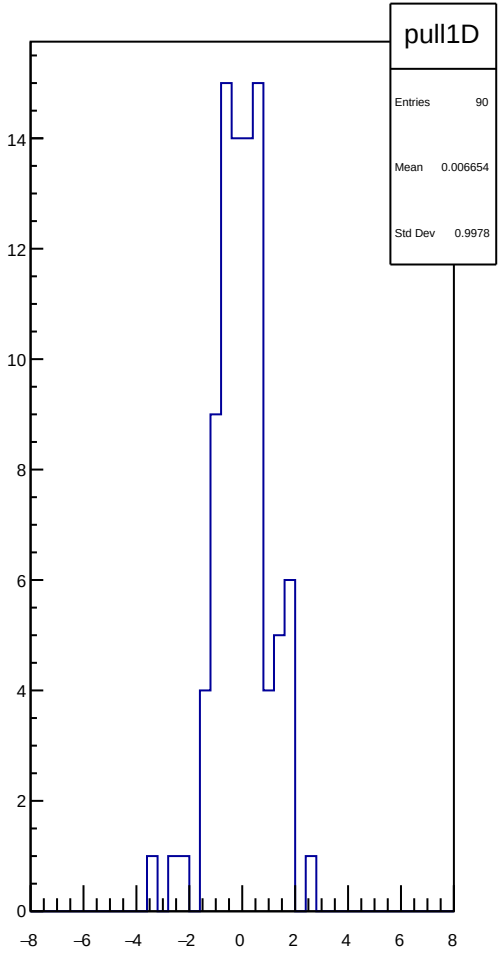

pull1D
Entries 90
Mean 0.006654
Std Dev 0.9978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

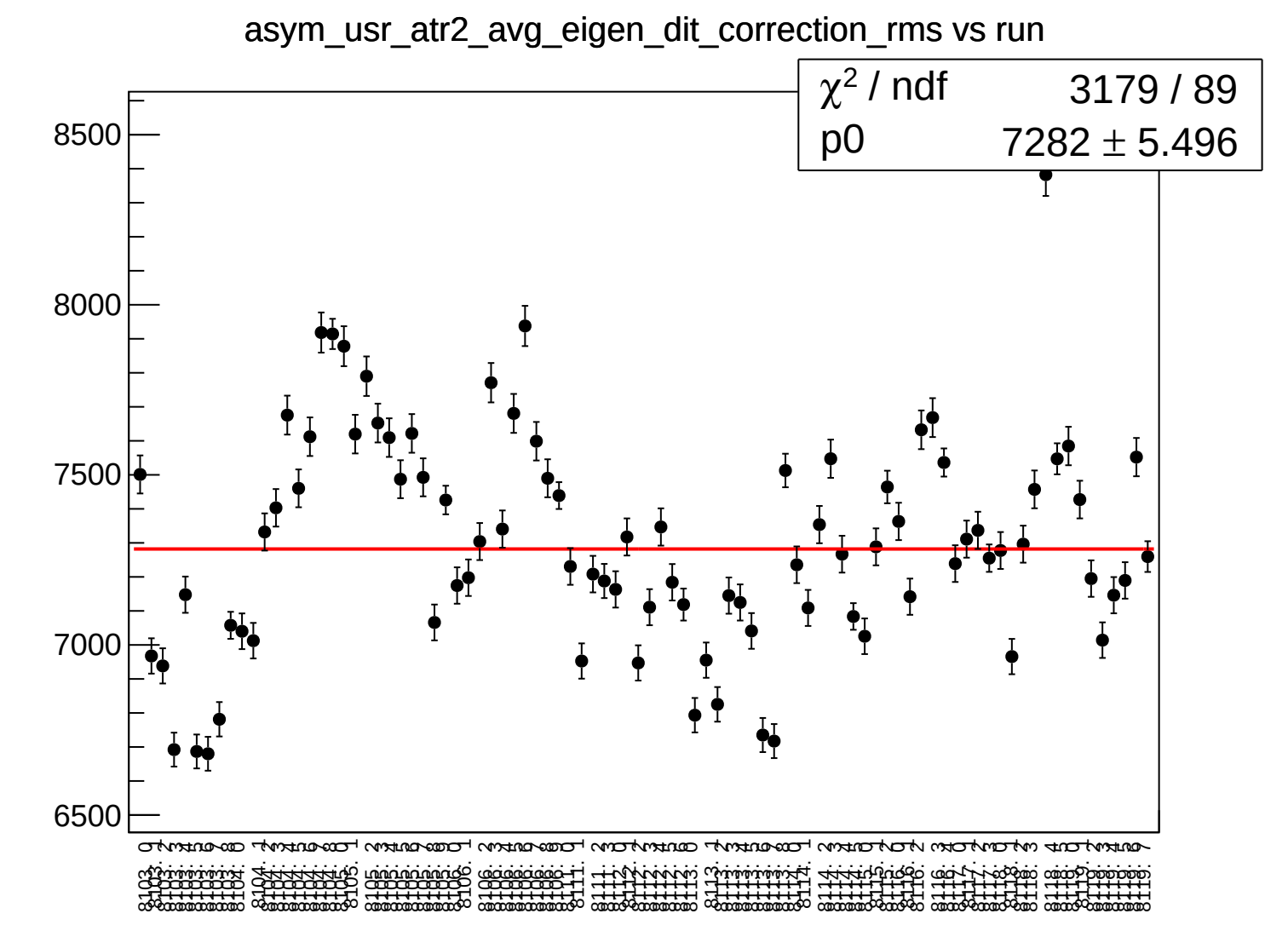

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 3179 / 89
p0 7282 ± 5.496
8500
8000
7500
7000
6500

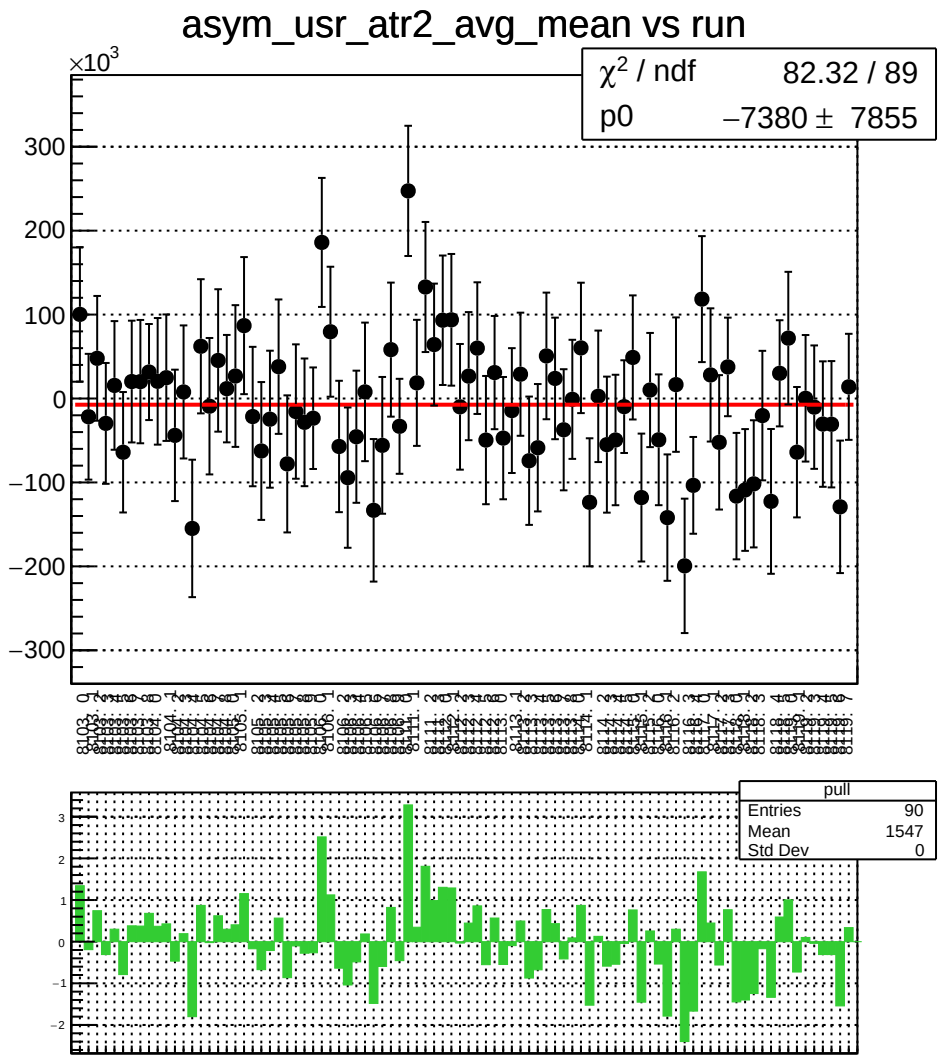

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.61 / 89
p0 4268 ± 1599
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −2329
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.002204
Std Dev 0.7573
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

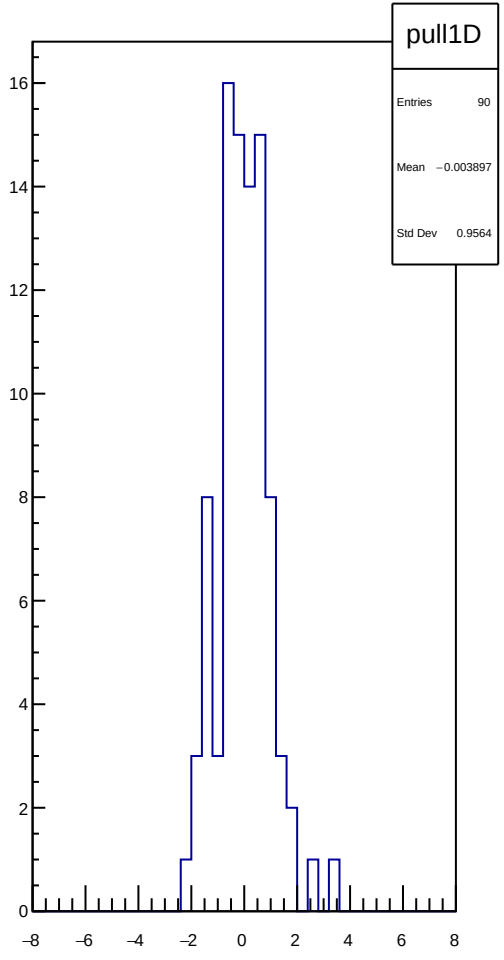

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 158.1 / 89
p0 1500 ± 1.131
1560
1540
1520
1500
1480
1460

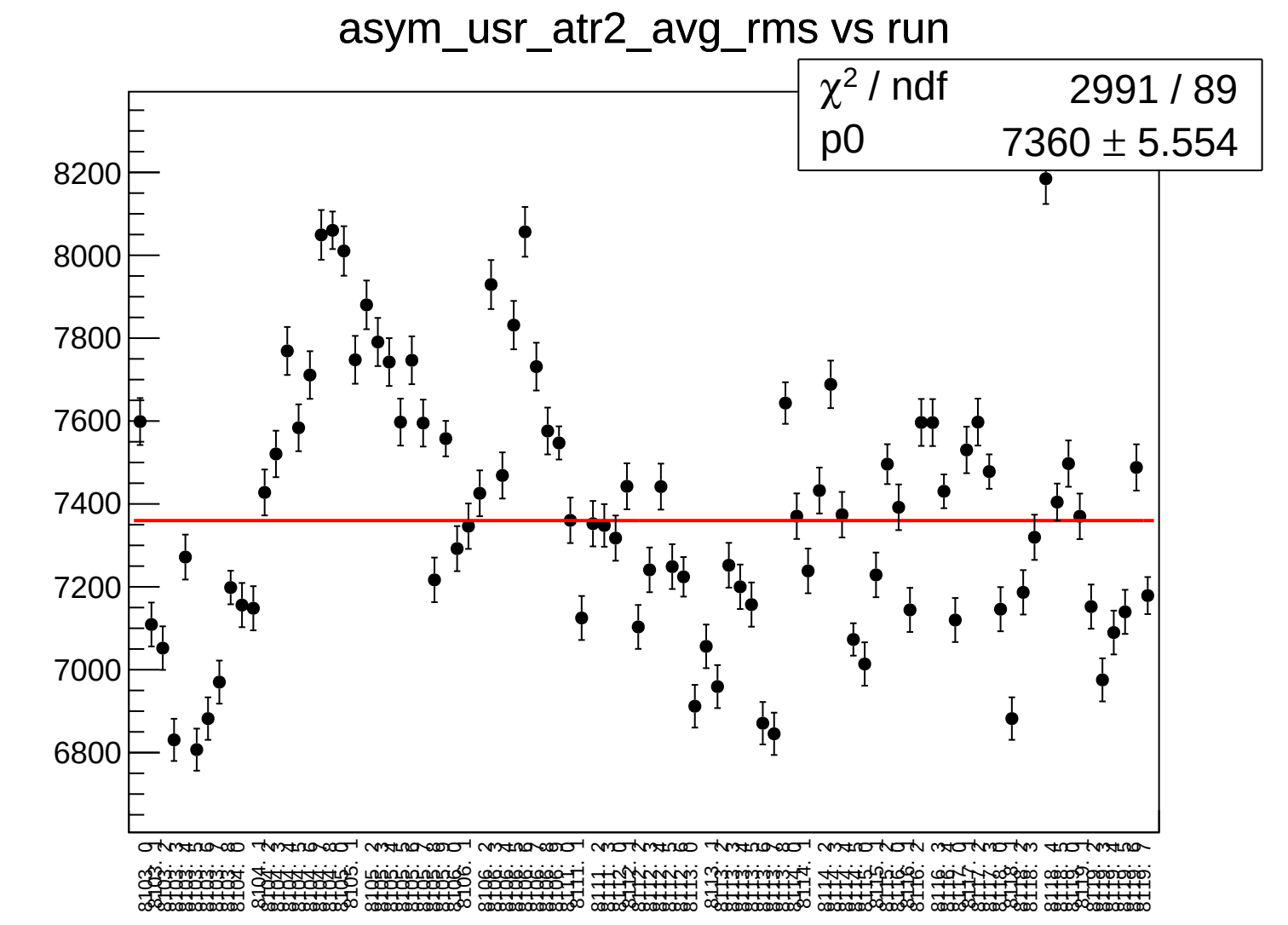

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.6 / 89
p0 1.116e+04 ± 7773
pull
Entries 90
Mean 1087
Std Dev 0

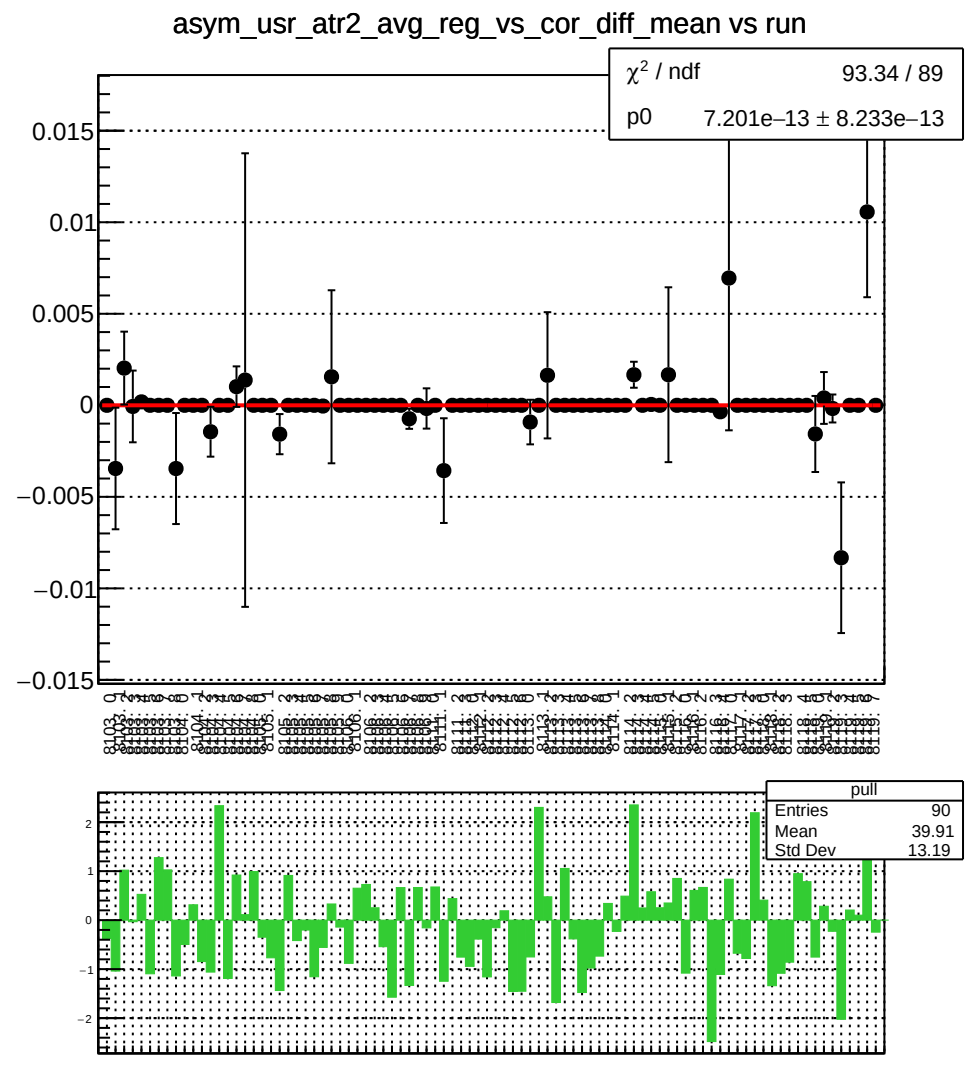

pull1D
Entries 90
Mean 0.006654
Std Dev 0.9978

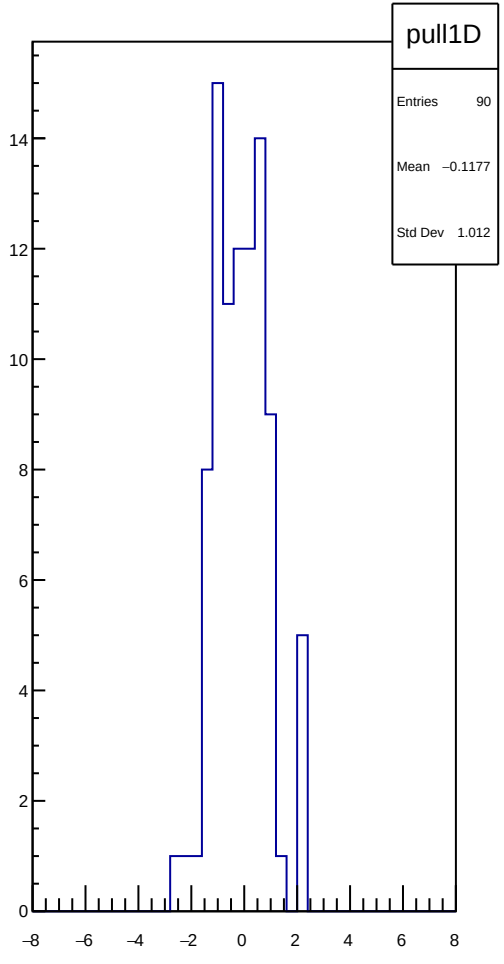

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3179 / 89
p0 7282 ± 5.496
8500
8000
7500
7000
6500

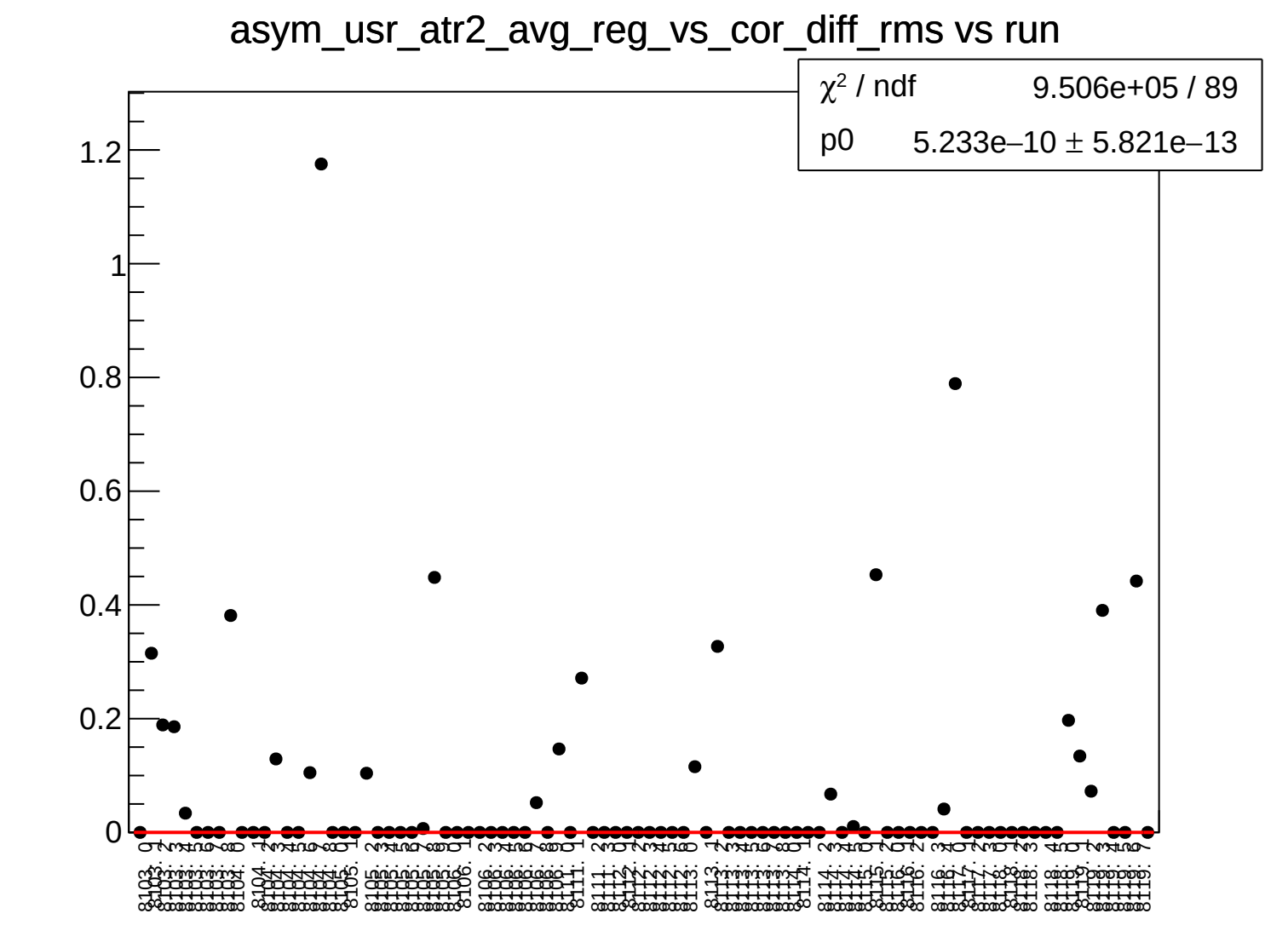

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 82.32 / 89
p0 −7380 ± 7855
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean 1547
Std Dev 0
3
2
1
0
−1
−2

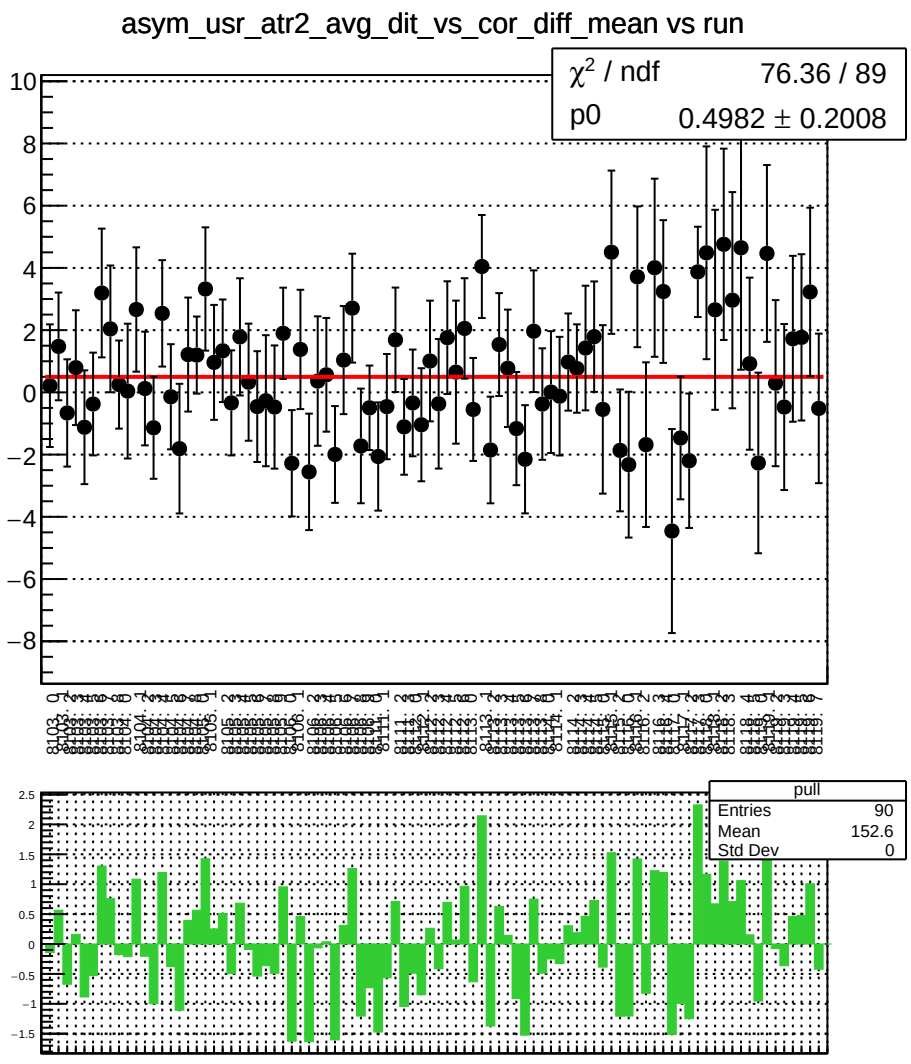

pull1D
Entries 90
Mean −0.003897
Std Dev 0.9564
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

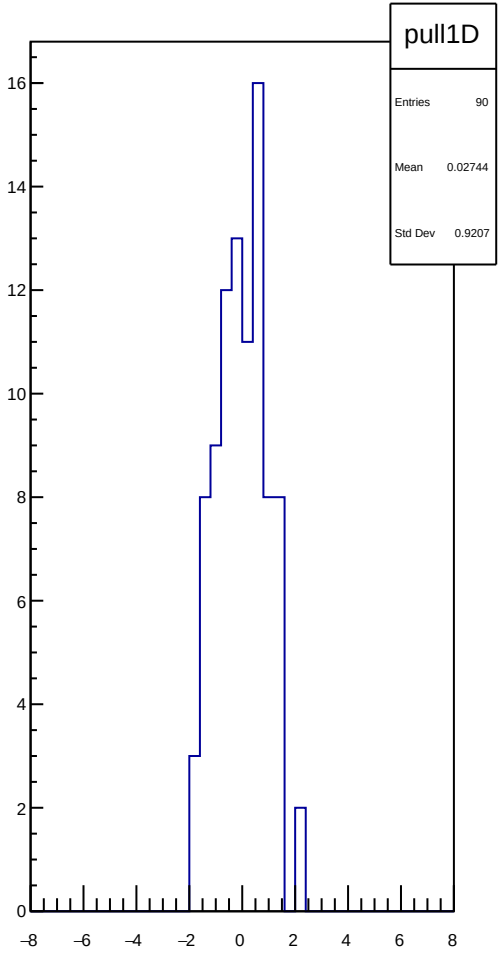

asym_usr_atr2_avg_rms vs run
χ² / ndf 2991 / 89
p0 7360 ± 5.554
8200
8000
7800
7600
7400
7200
7000
6800

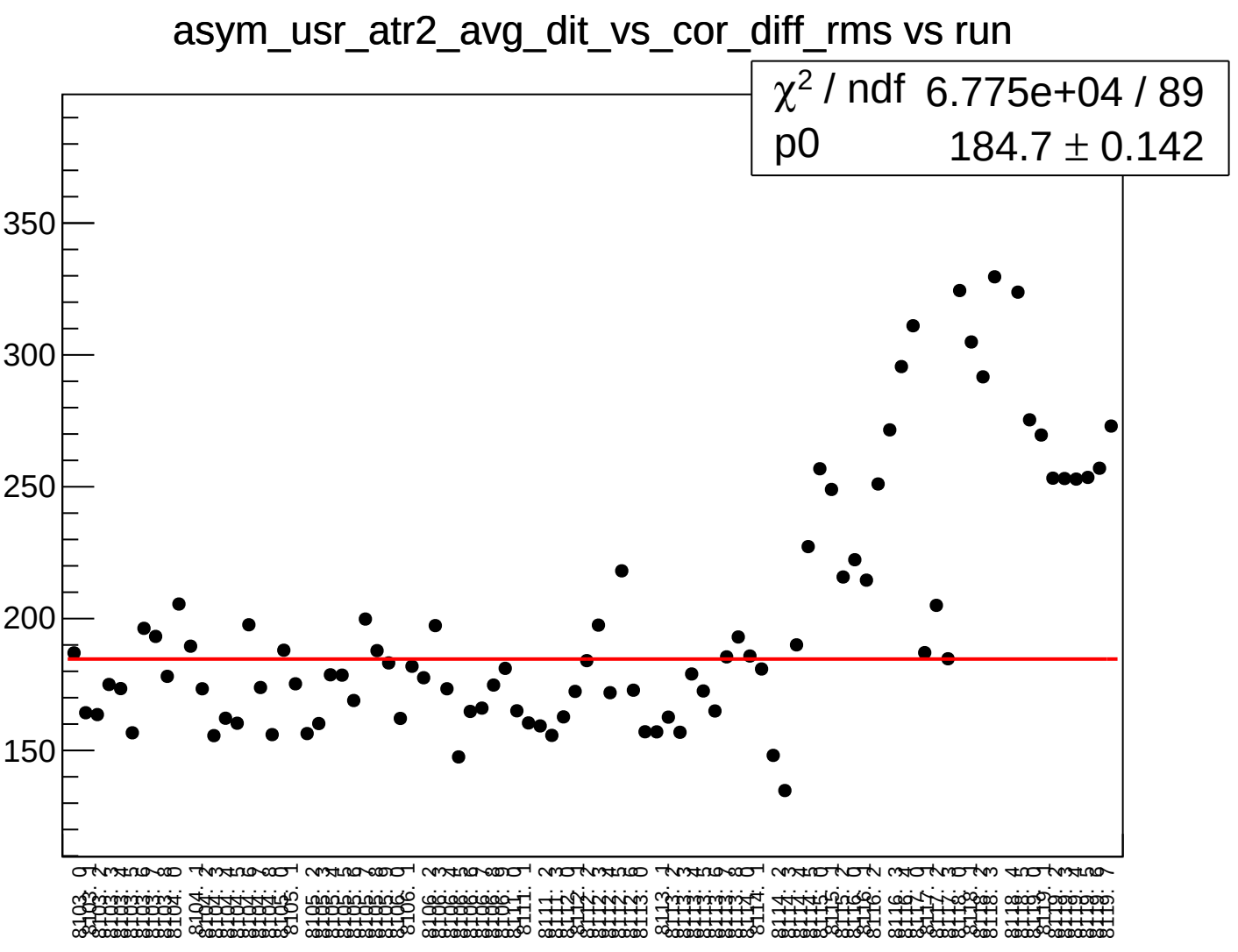

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.34 / 89
p0 7.201e−13 ± 8.233e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 39.91
Std Dev 13.19
2
1
0
−1
−2

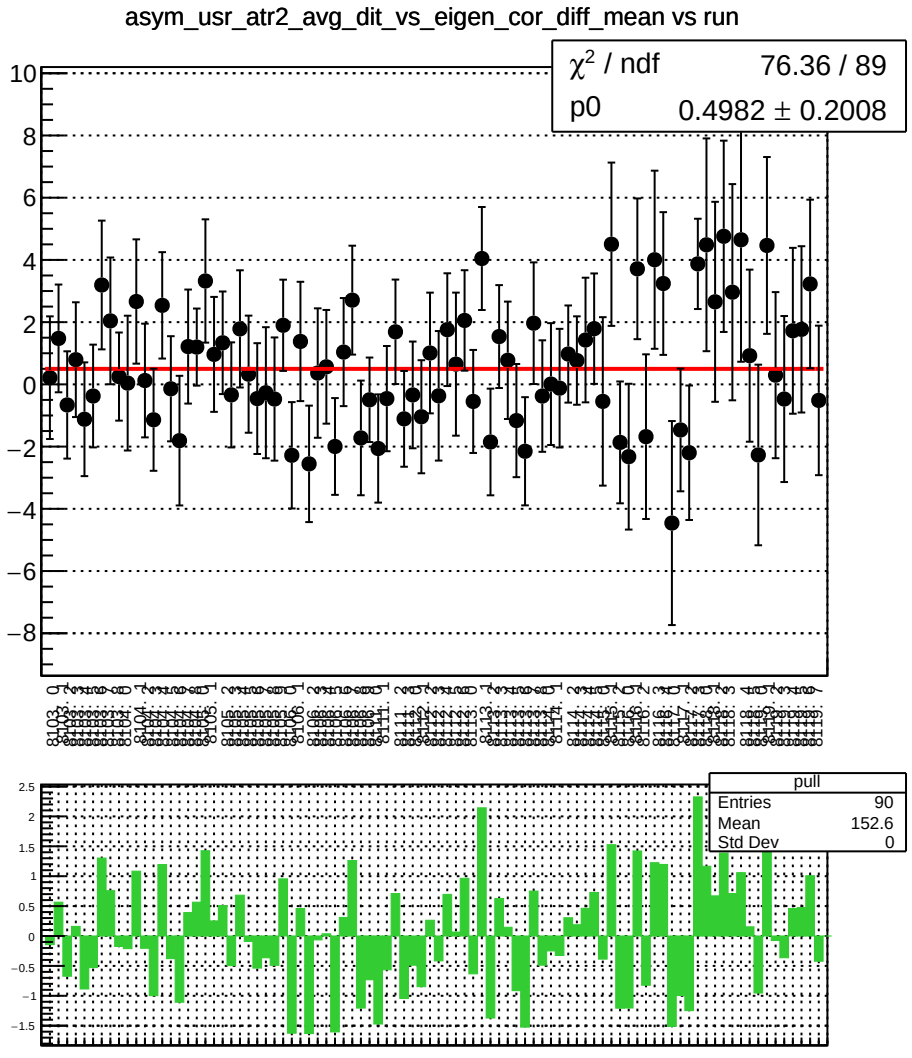

pull1D
Entries 90
Mean −0.1177
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

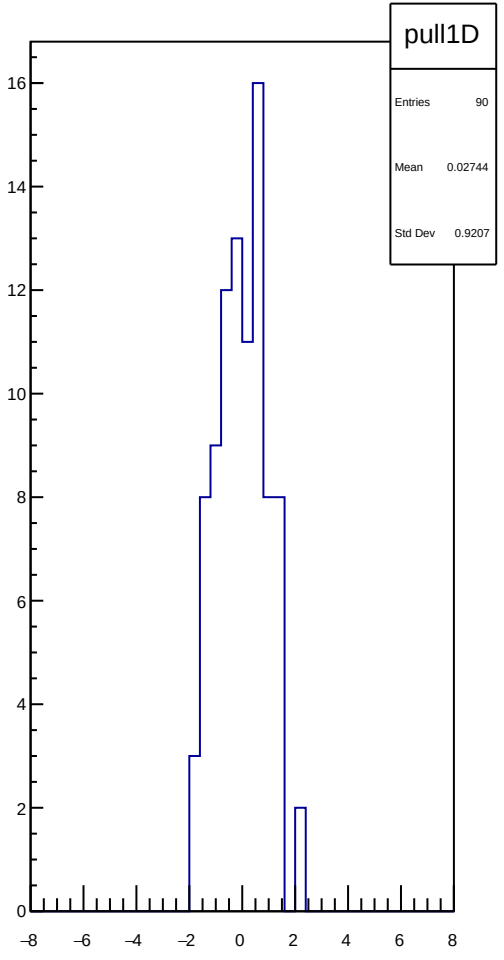

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.506e+05 / 89
p0 5.233e−10 ± 5.821e−13
1.2
1
0.8
0.6
0.4
0.2
0

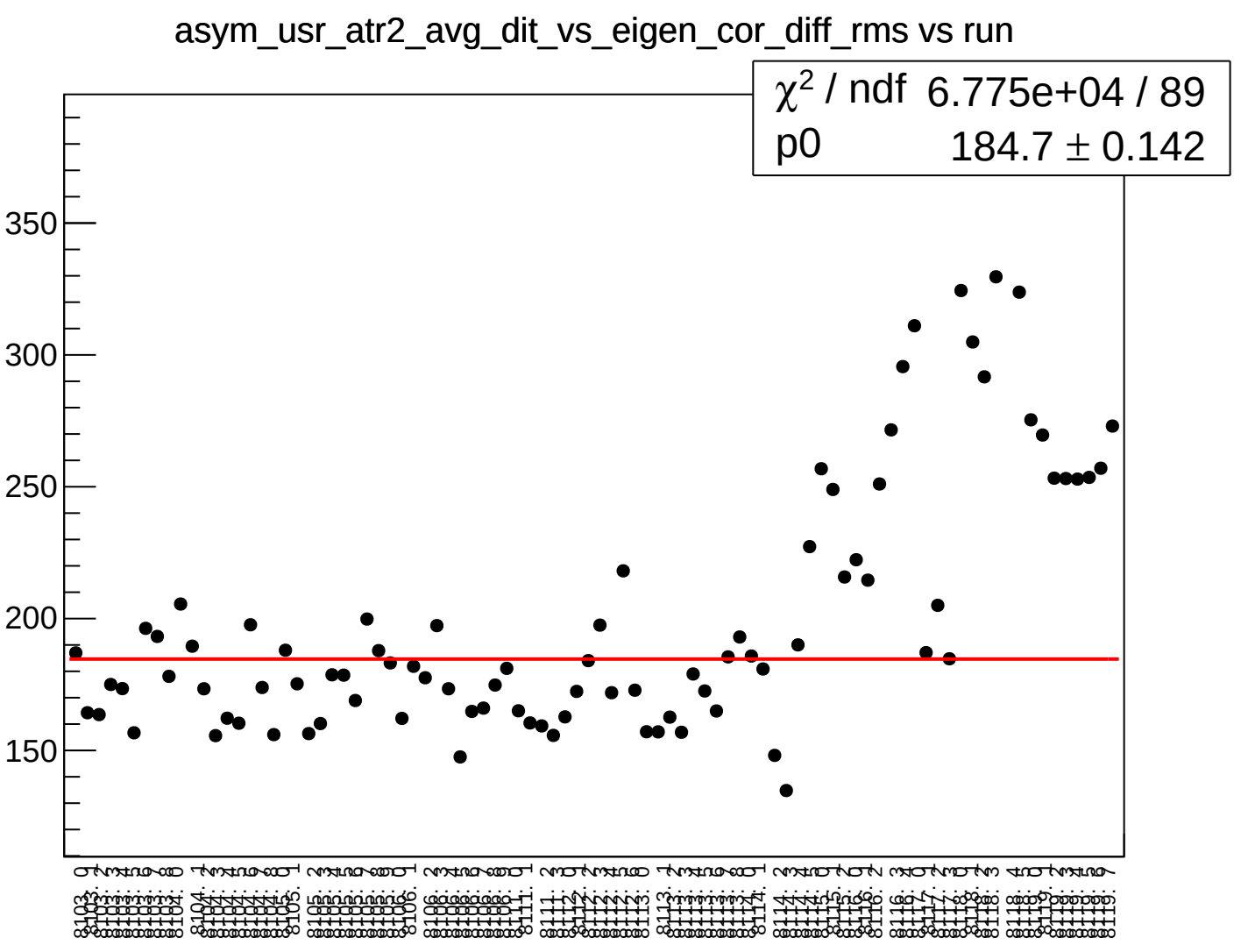

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.36 / 89
p0 0.4982 ± 0.2008
pull
Entries 90
Mean 152.6
Std Dev 0

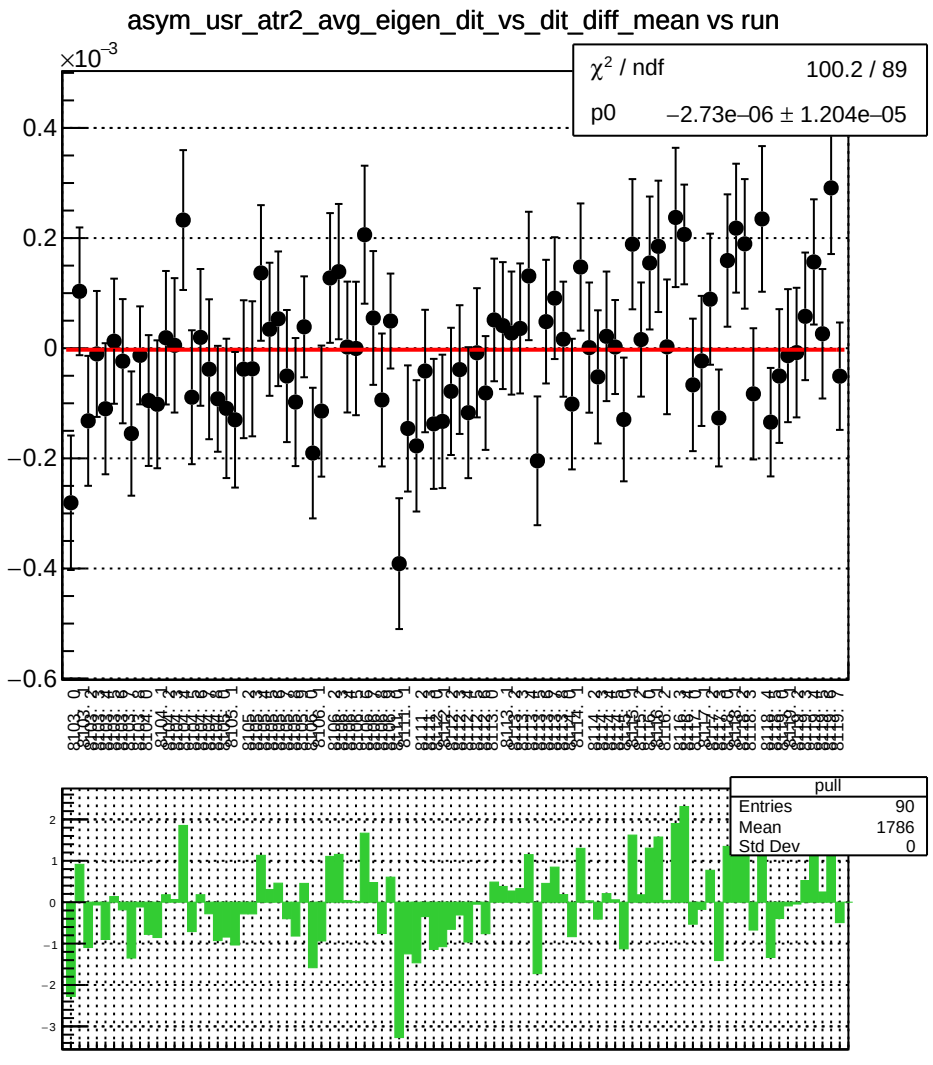

pull1D
Entries 90
Mean 0.02744
Std Dev 0.9207

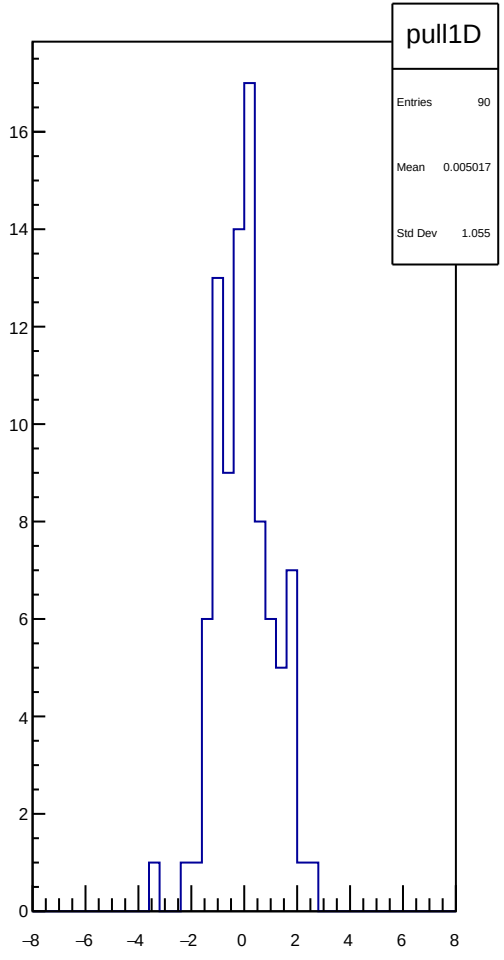

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.775e+04 / 89
p0 184.7 ± 0.142
350
300
250
200
150

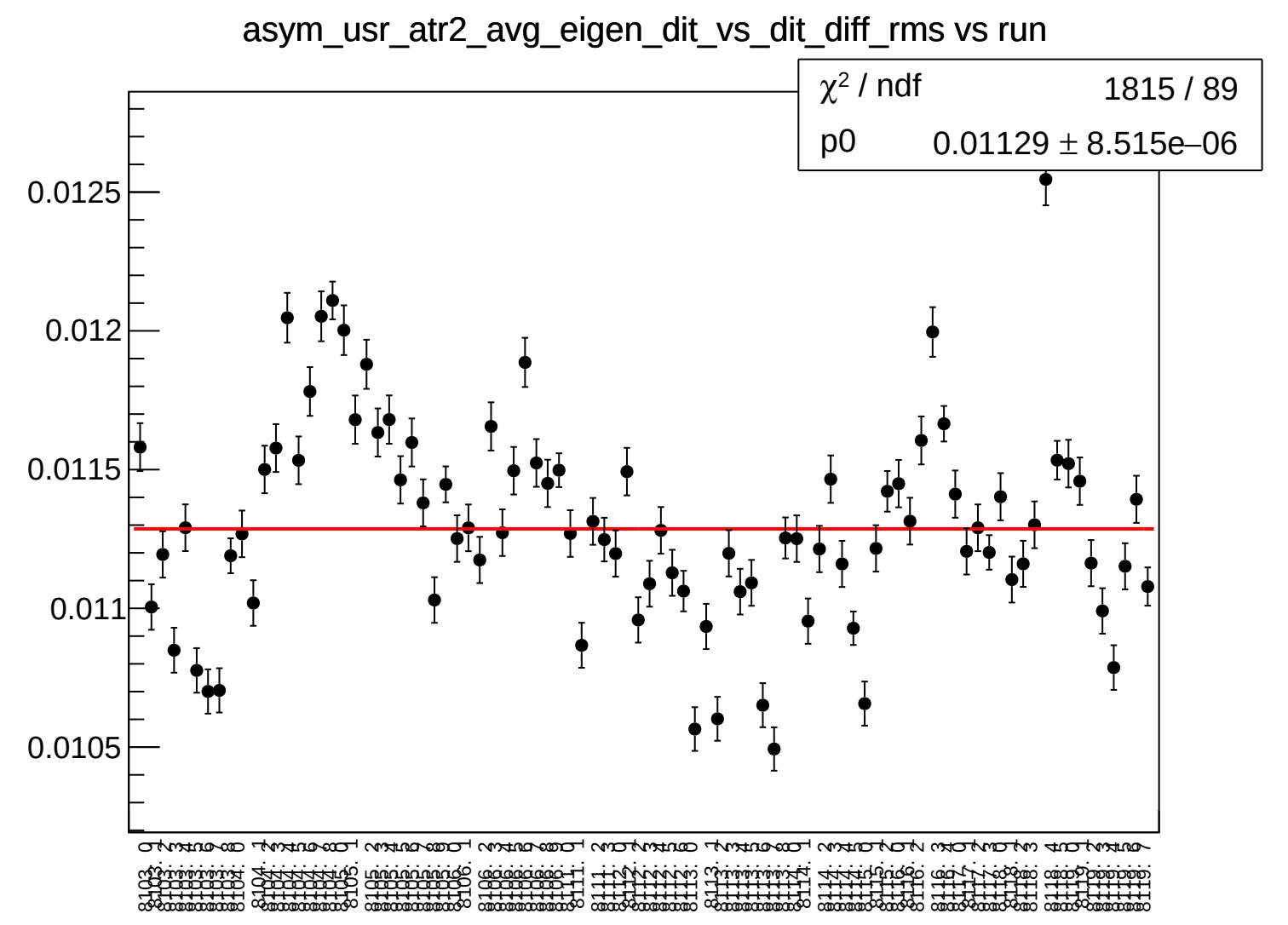

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.36 / 89
p0 0.4982 ± 0.2008
pull
Entries 90
Mean 152.6
Std Dev 0

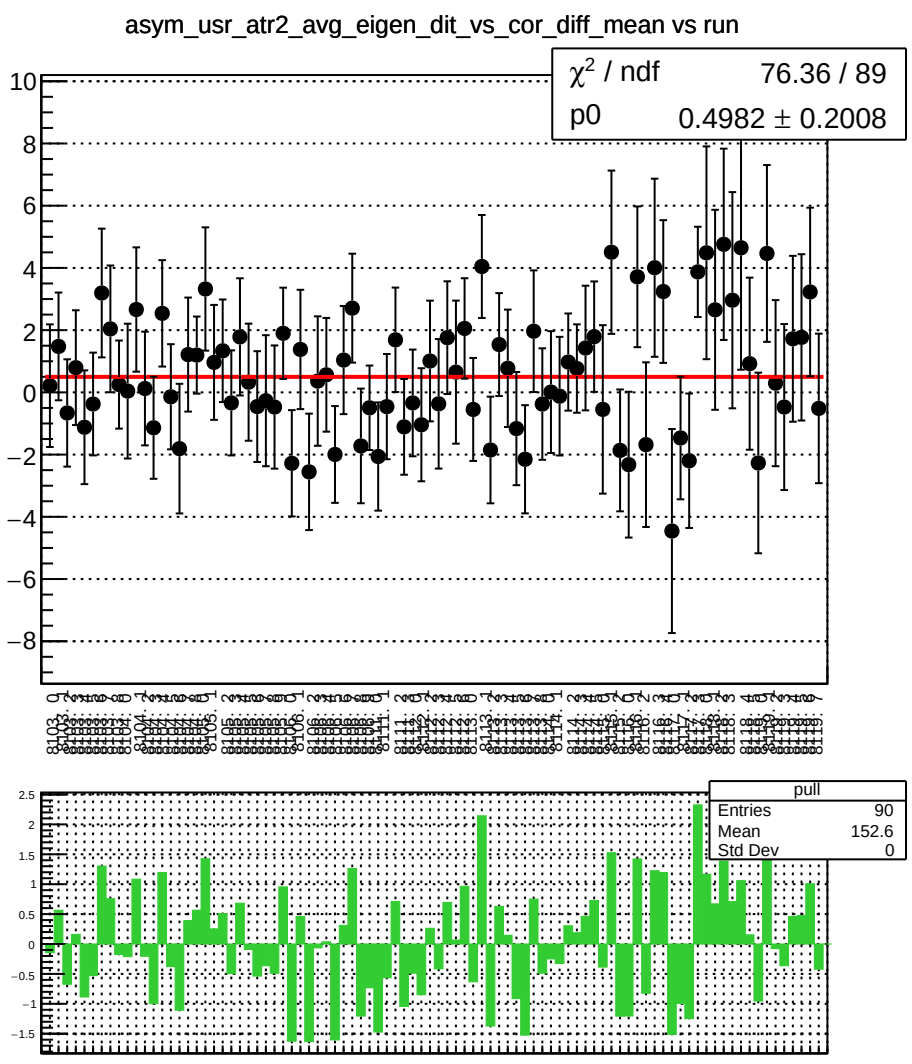

pull1D
Entries 90
Mean 0.02744
Std Dev 0.9207

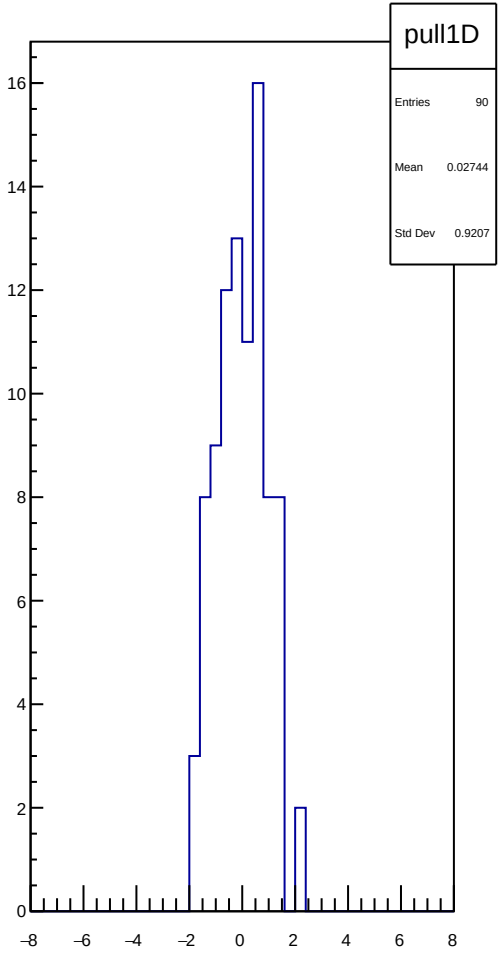

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.775e+04 / 89
p0 184.7 ± 0.142
350
300
250
200
150

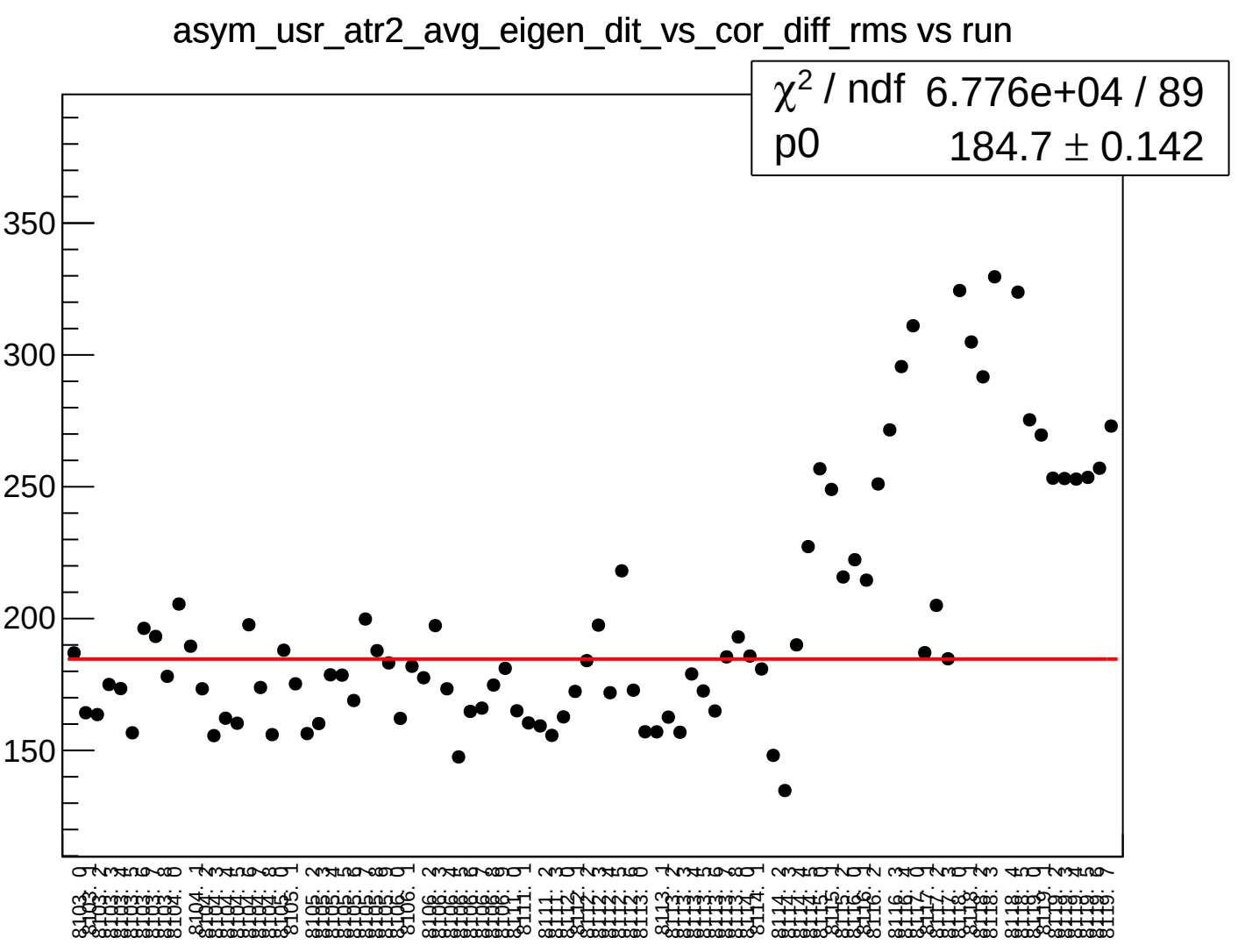

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.2 / 89
p0 −2.73e−06 ± 1.204e−05
pull
Entries 90
Mean 1786
Std Dev 0

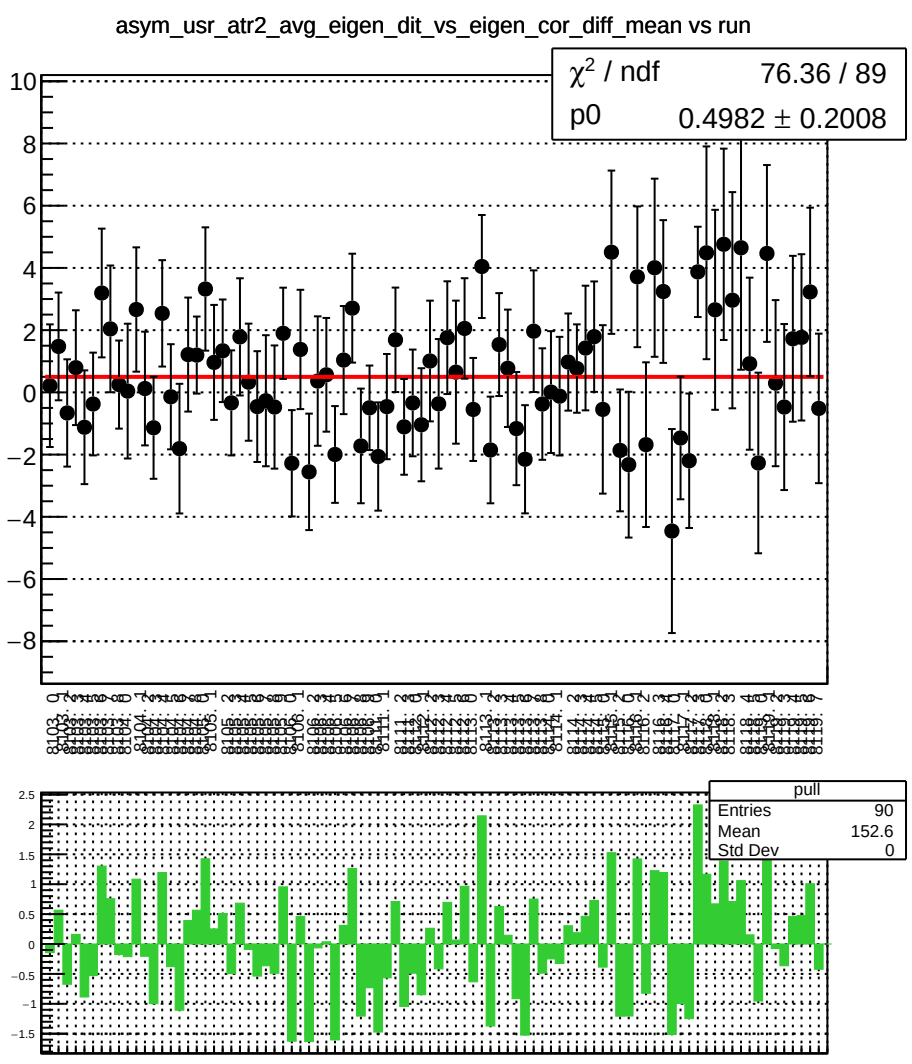

pull1D
Entries 90
Mean 0.005017
Std Dev 1.055

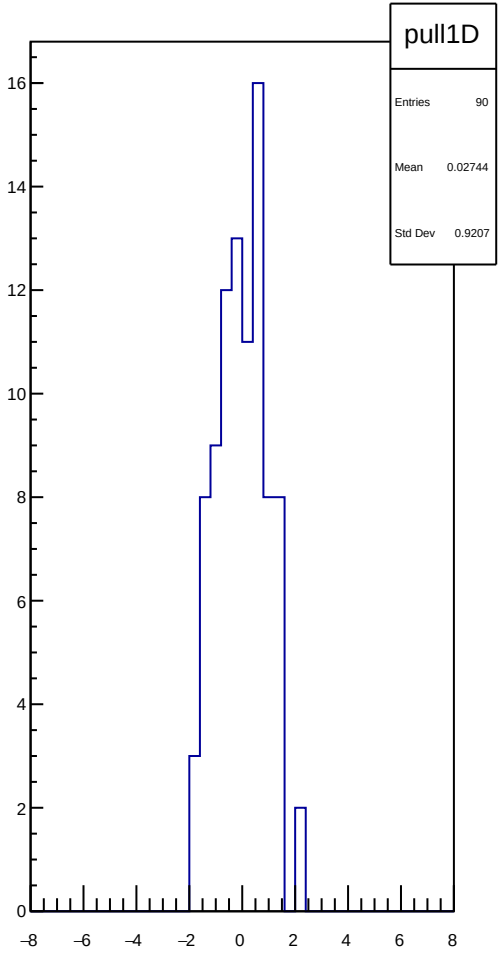

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1815 / 89
p0 0.01129 ± 8.515e–06
0.0125
0.012
0.0115
0.011
0.0105

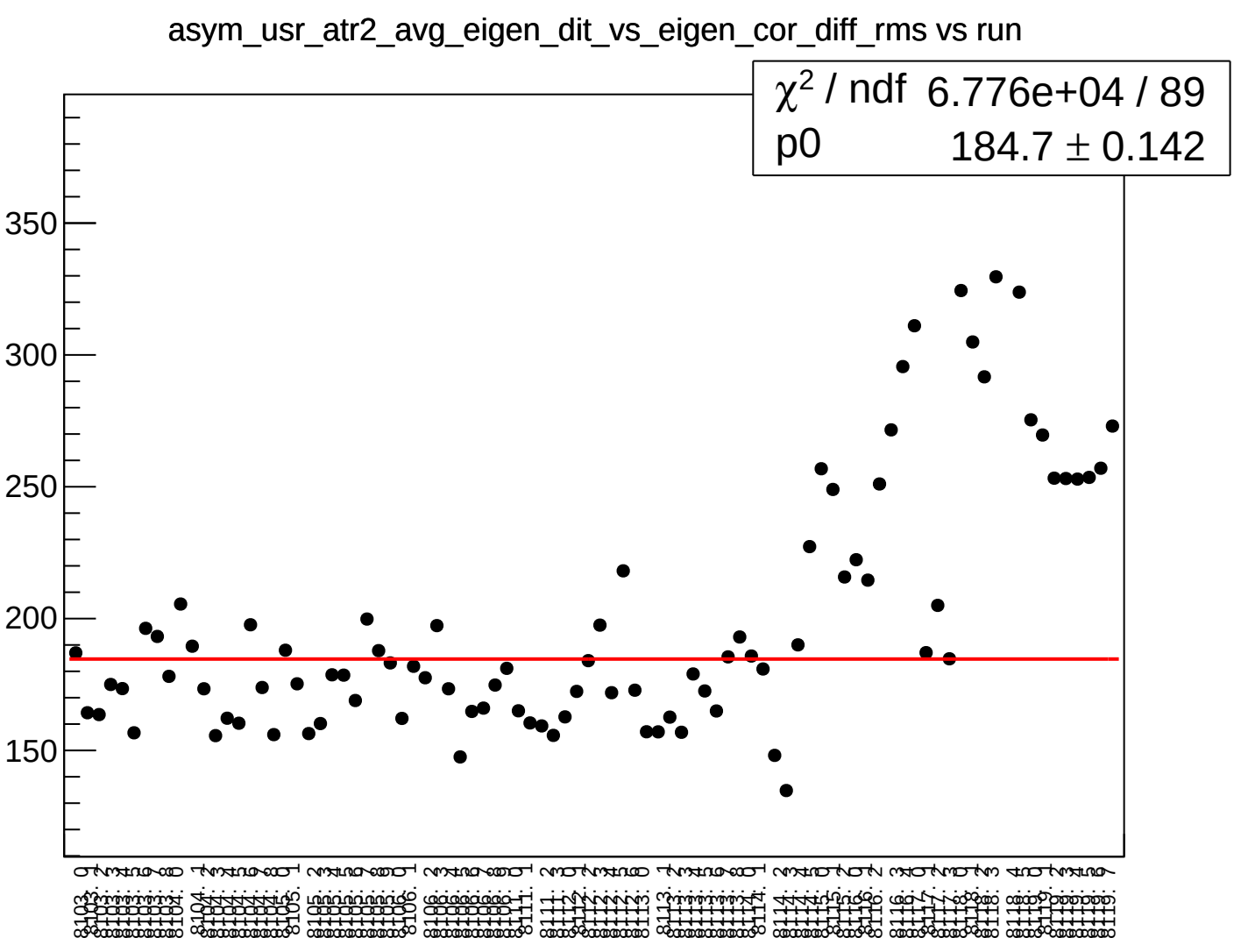

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.36 / 89
p0 0.4982 ± 0.2008
pull
Entries 90
Mean 152.6
Std Dev 0

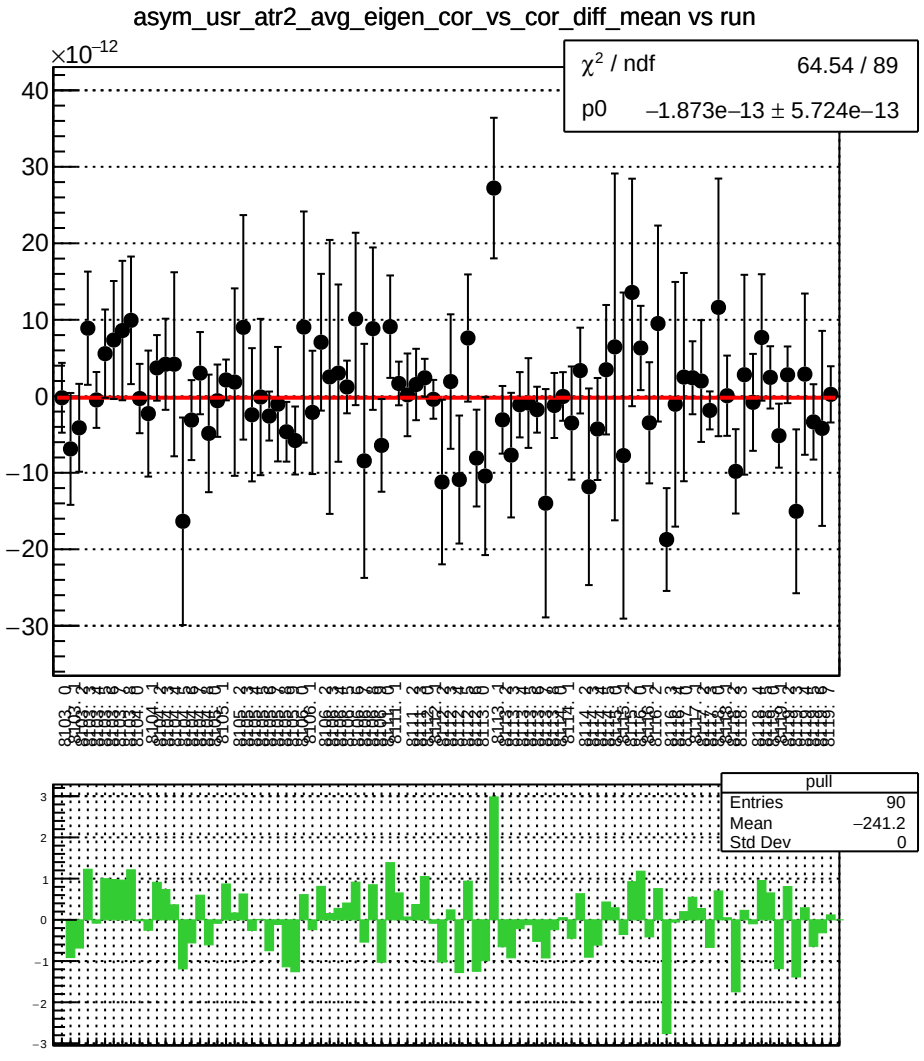

pull1D
Entries 90
Mean 0.02744
Std Dev 0.9207

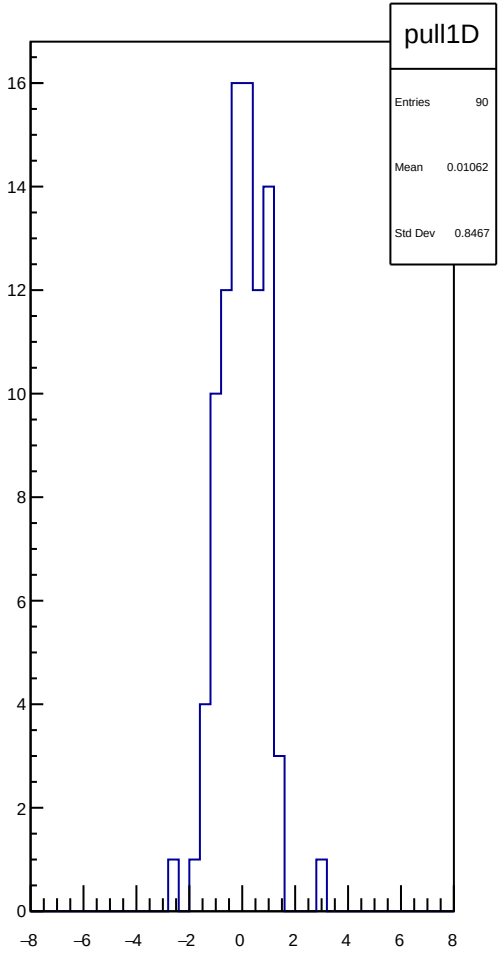

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.776e+04 / 89
p0 184.7 ± 0.142
350
300
250
200
150

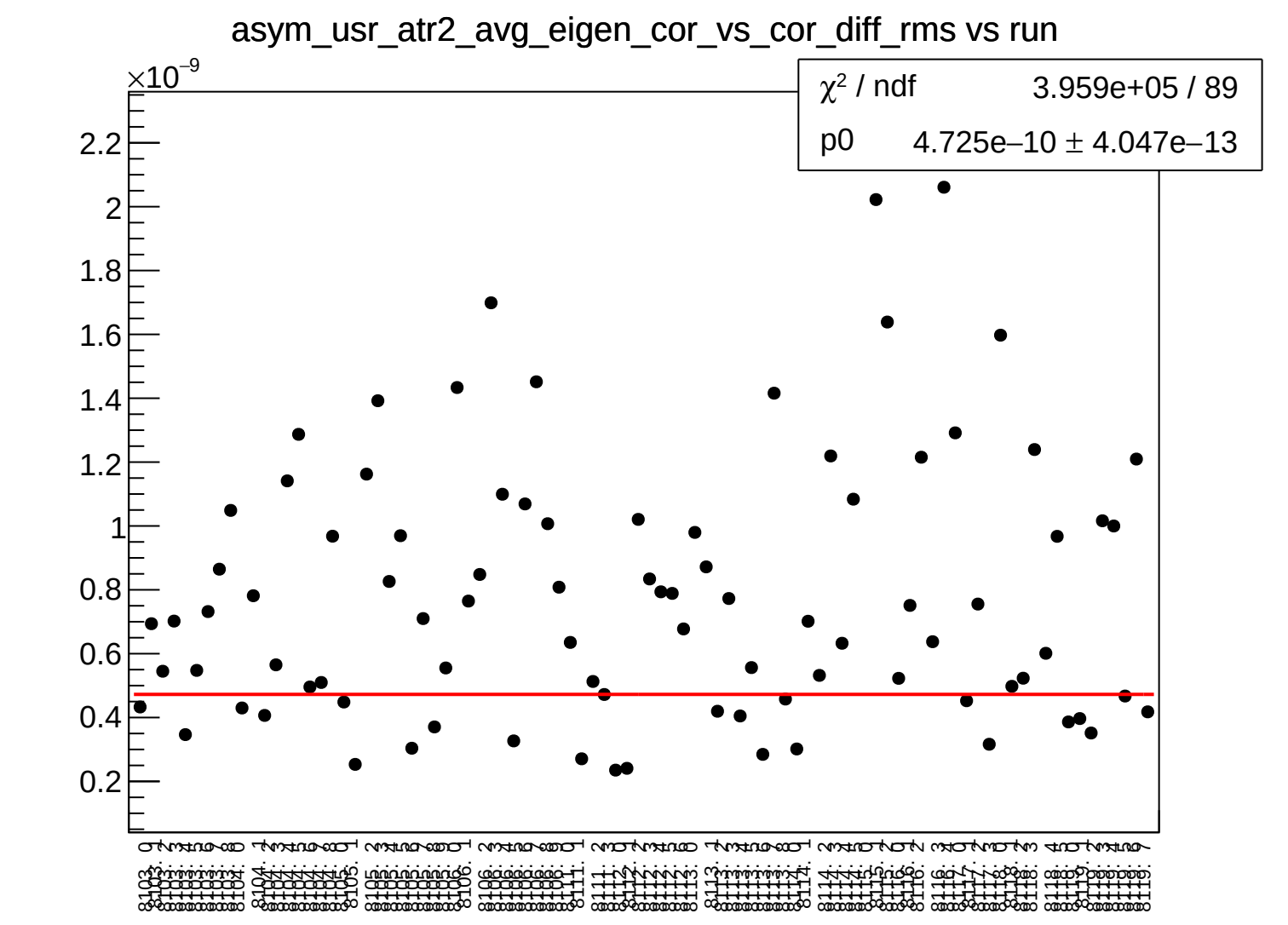

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.36 / 89
p0 0.4982 ± 0.2008
pull
Entries 90
Mean 152.6
Std Dev 0

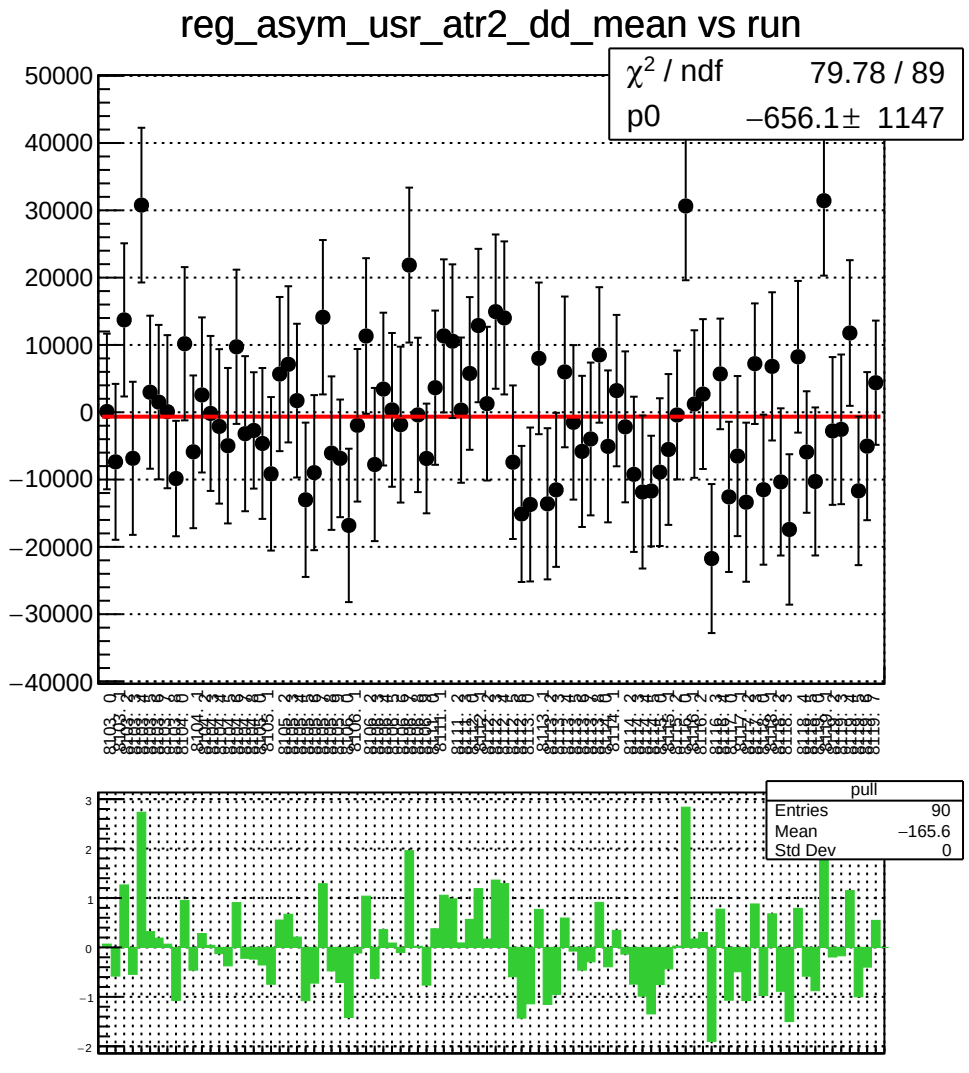

pull1D
Entries 90
Mean 0.02744
Std Dev 0.9207

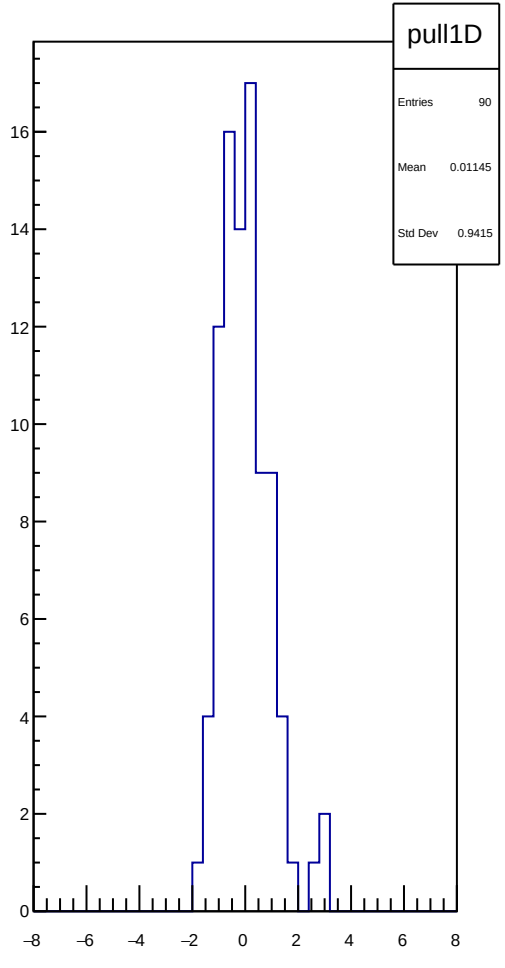

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.776e+04 / 89
p0 184.7 ± 0.142
350
300
250
200
150

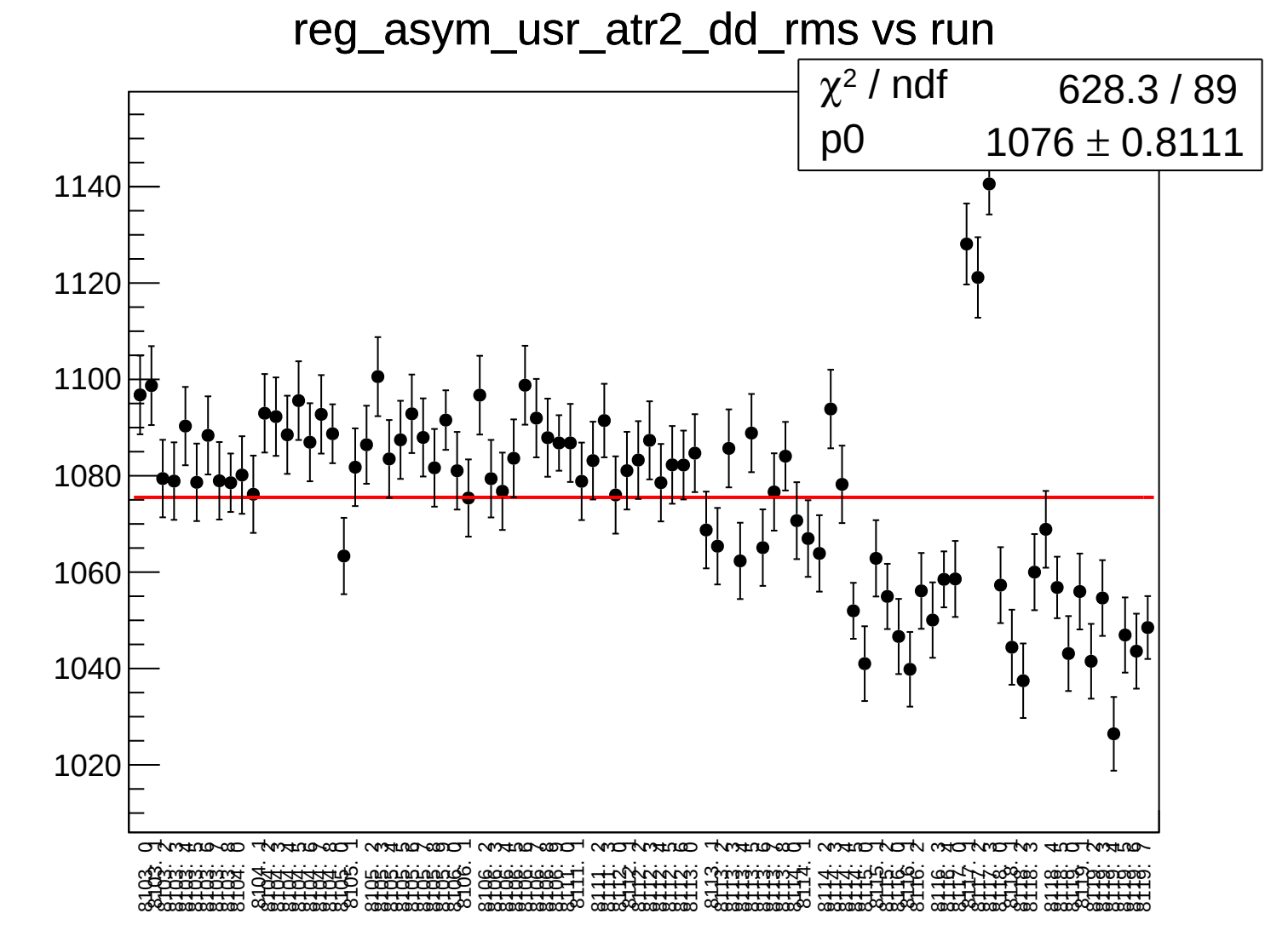

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 64.54 / 89
p0 −1.873e−13 ± 5.724e−13
pull
Entries 90
Mean −241.2
Std Dev 0

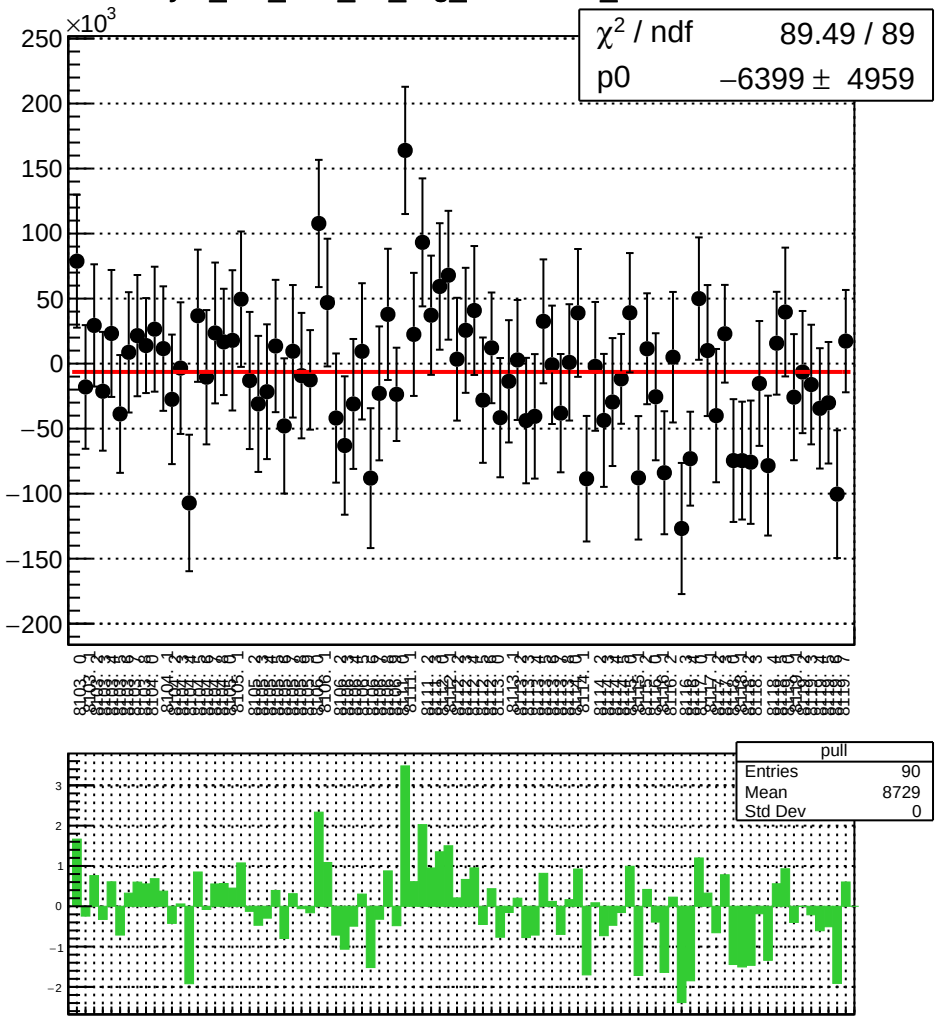

pull1D
Entries 90
Mean 0.01062
Std Dev 0.8467

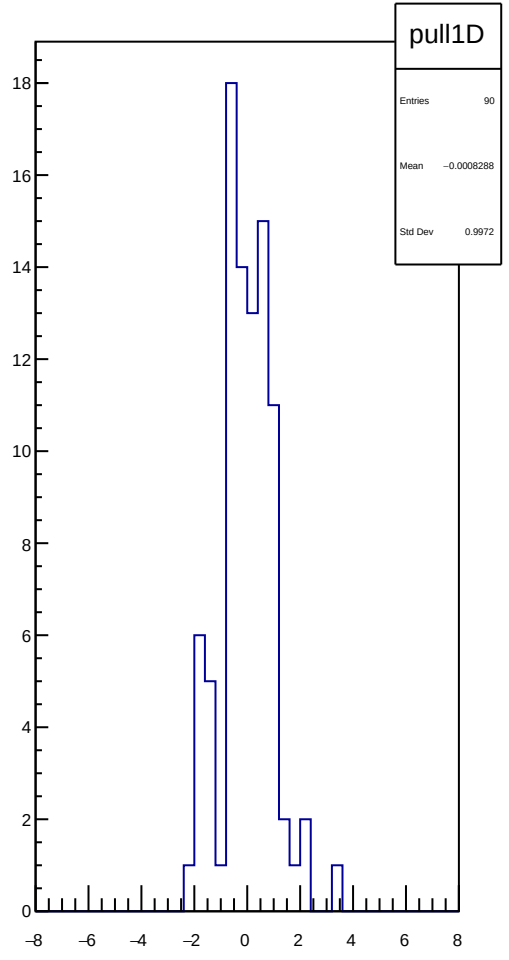

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.959e+05 / 89
p0 4.725e−10 ± 4.047e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

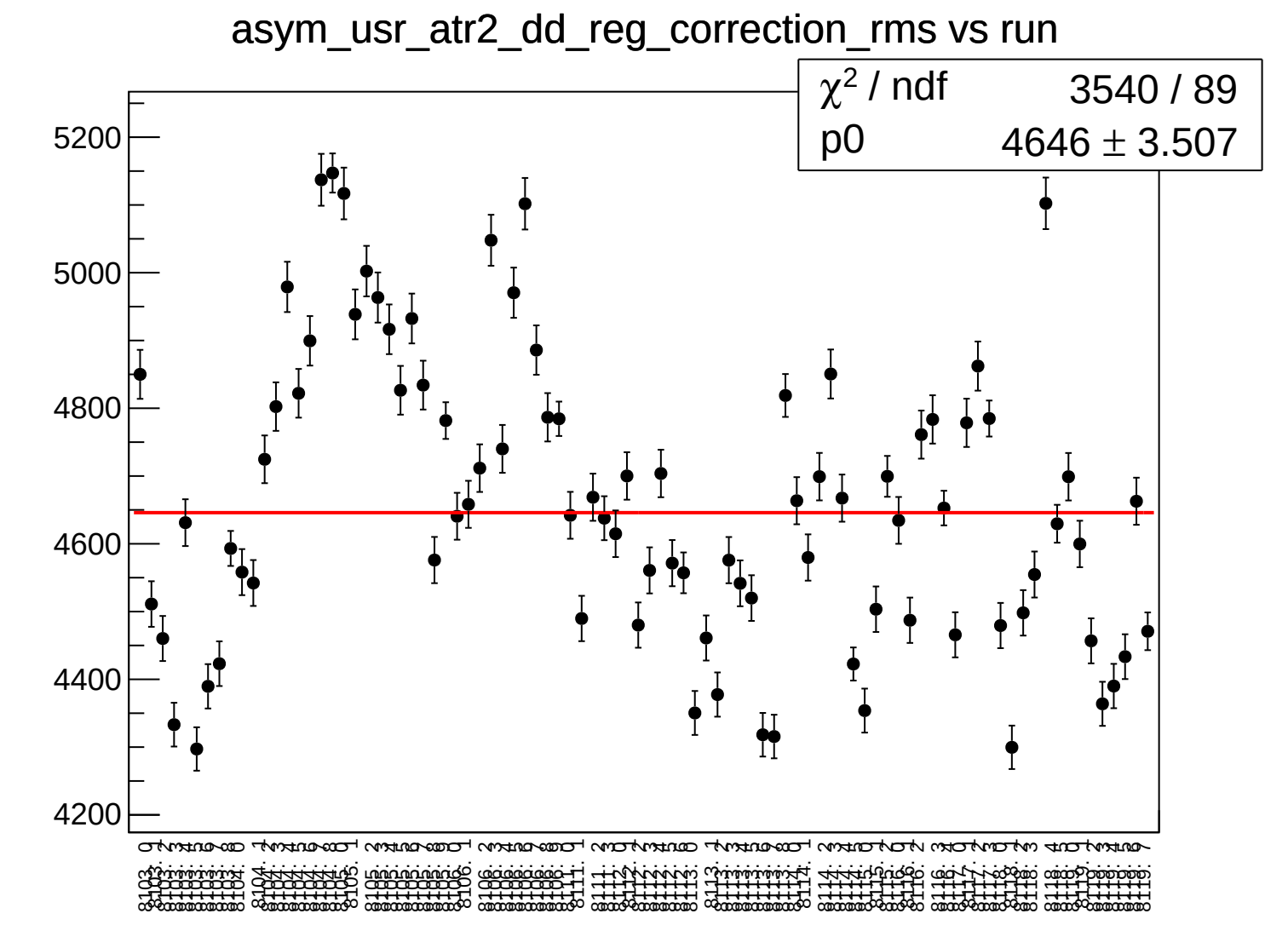

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 79.78 / 89
p0 −656.1± 1147
pull
Entries 90
Mean −165.6
Std Dev 0

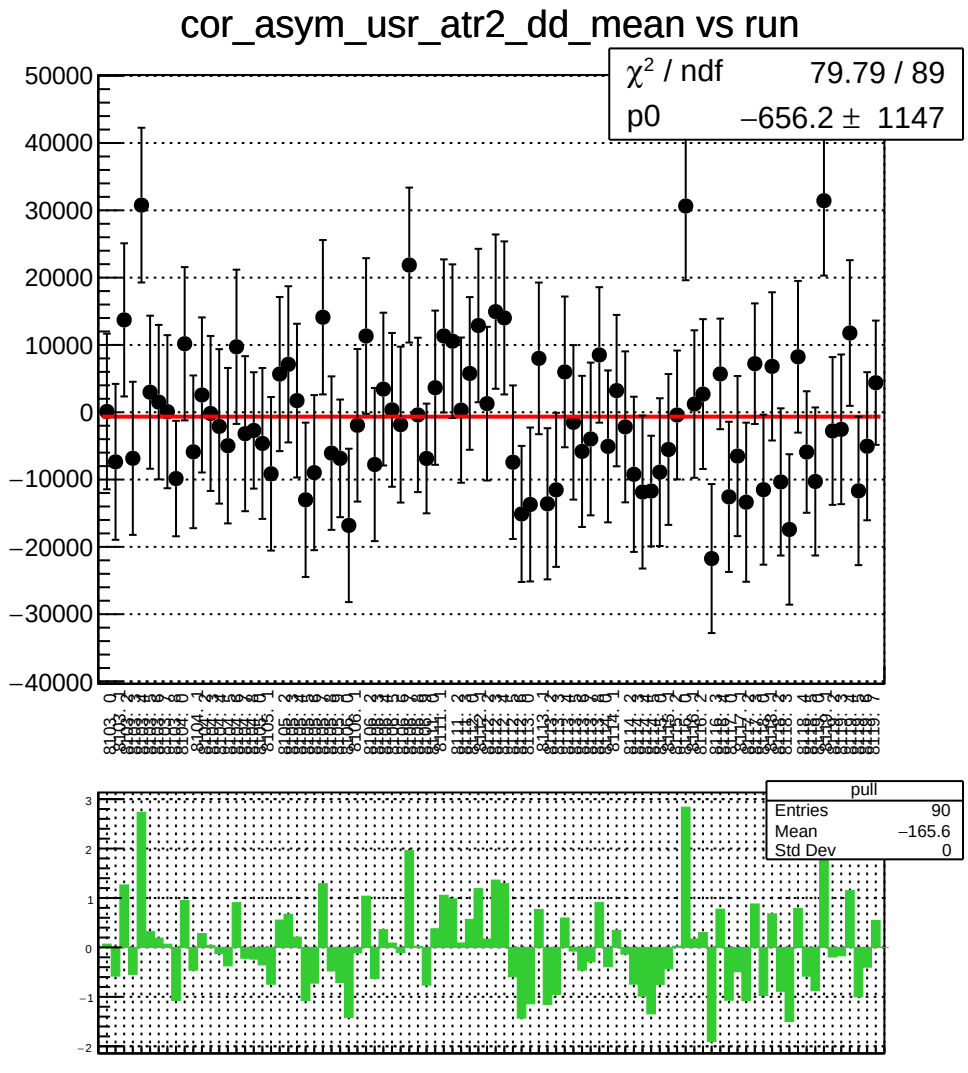

pull1D
Entries 90
Mean 0.01145
Std Dev 0.9415

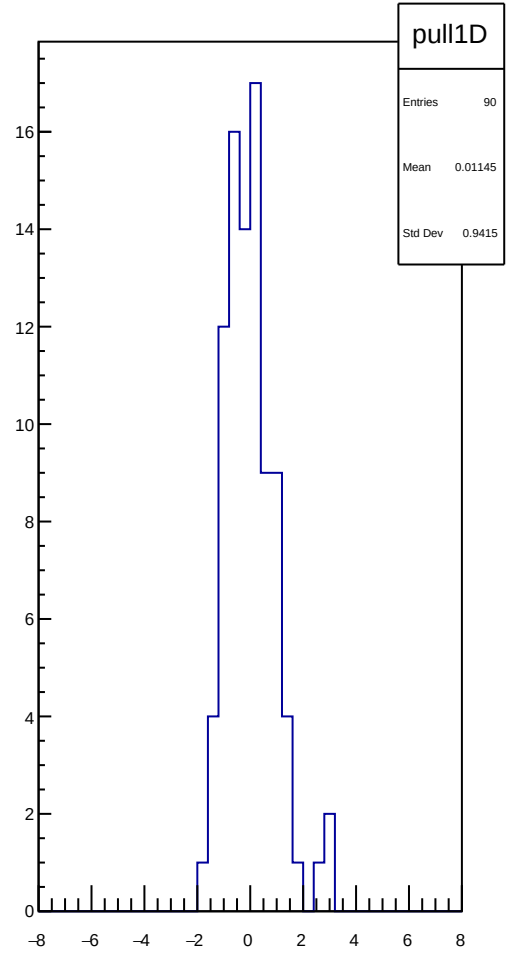

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 628.3 / 89
p0 1076 ± 0.8111
1140
1120
1100
1080
1060
1040
1020

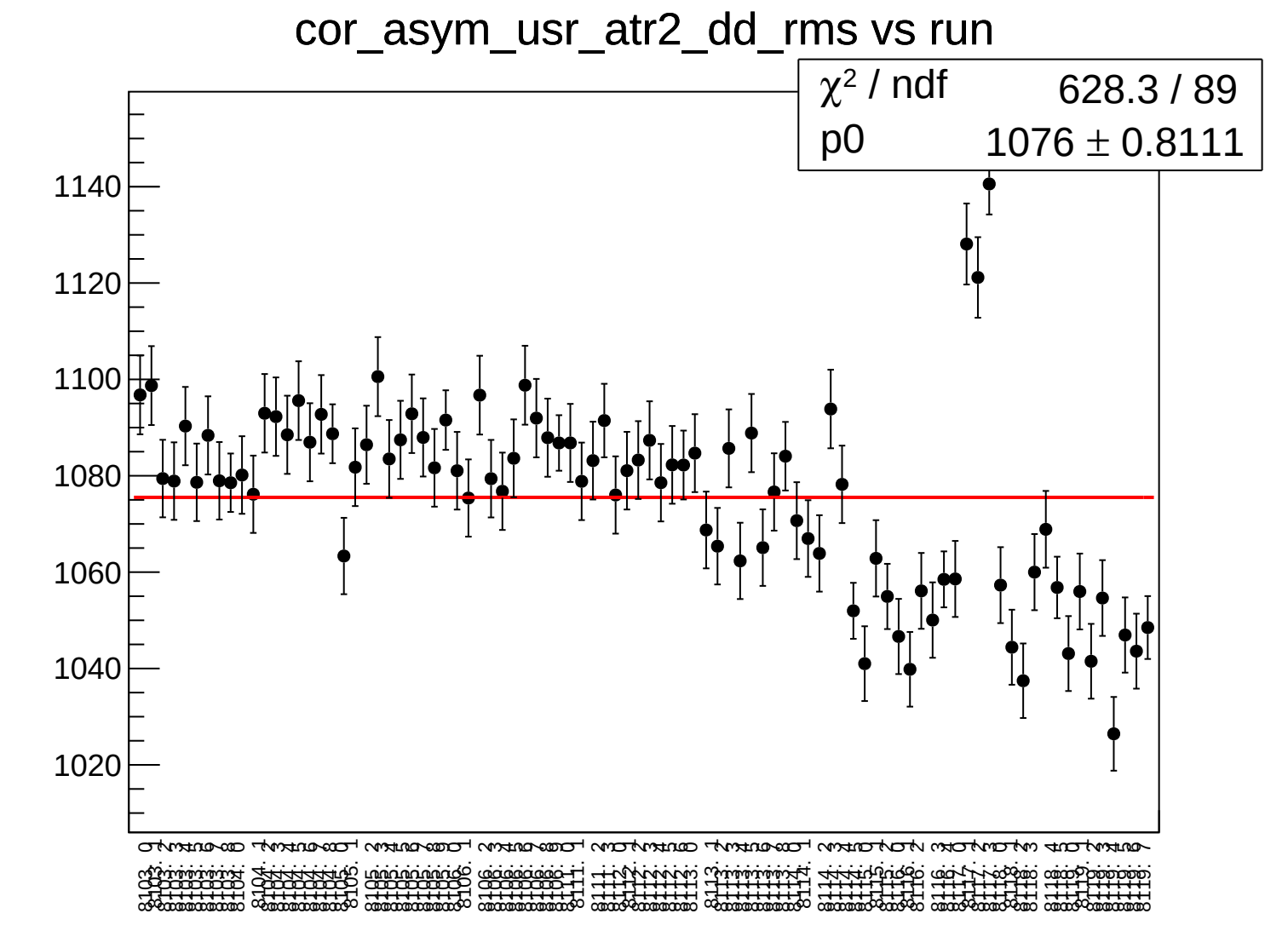

asym_usr_atr2_dd_reg_correction_mean vs run
χ² / ndf 89.49 / 89
p0 −6399 ± 4959
pull
Entries 90
Mean 8729
Std Dev 0

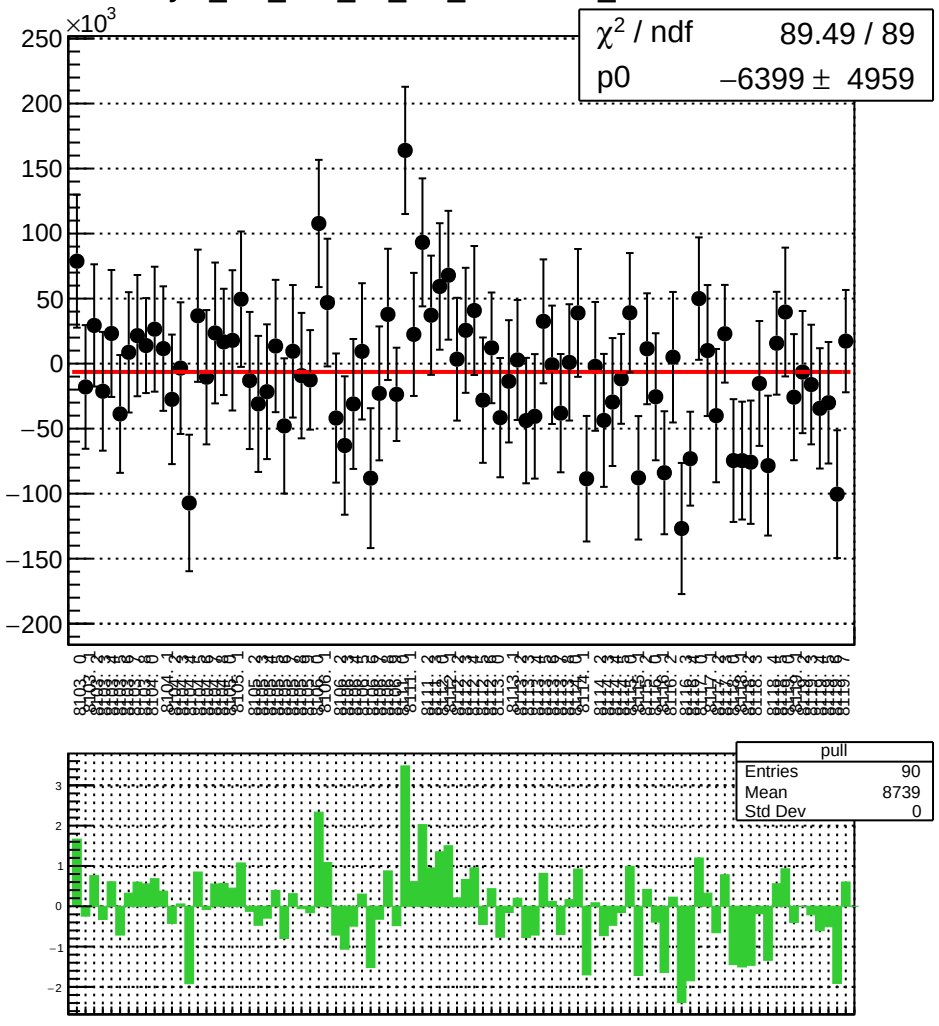

pull1D
Entries 90
Mean −0.0008288
Std Dev 0.9972

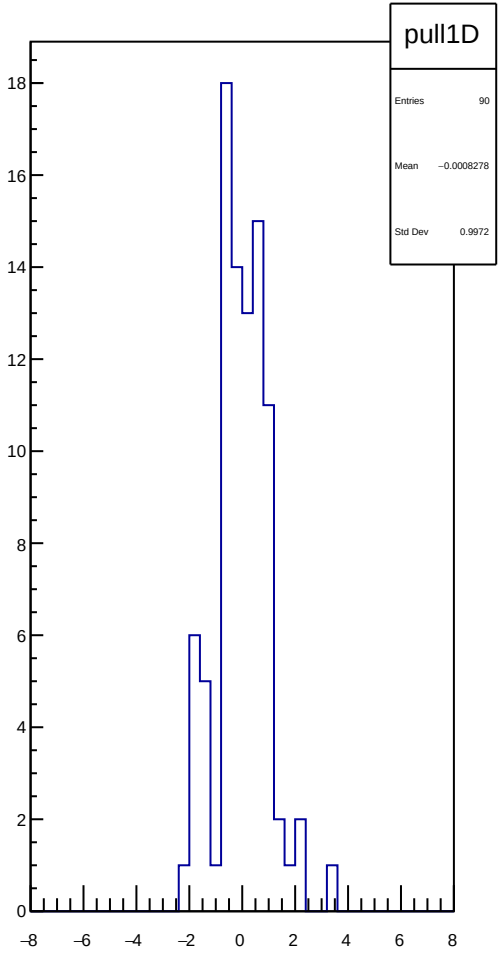

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3540 / 89
p0 4646 ± 3.507
5200
5000
4800
4600
4400
4200

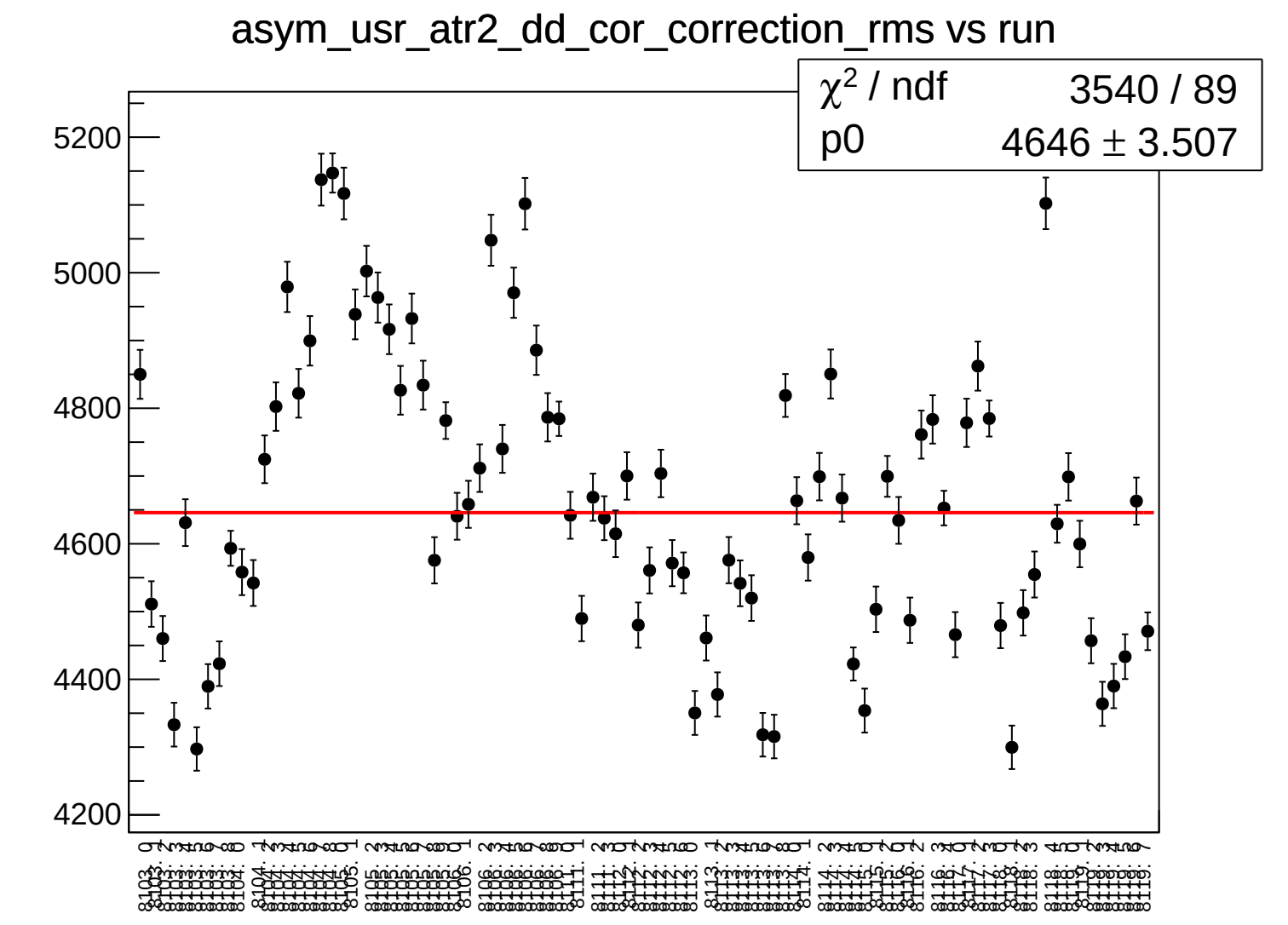

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 79.79 / 89
p0 −656.2 ± 1147
pull
Entries 90
Mean −165.6
Std Dev 0

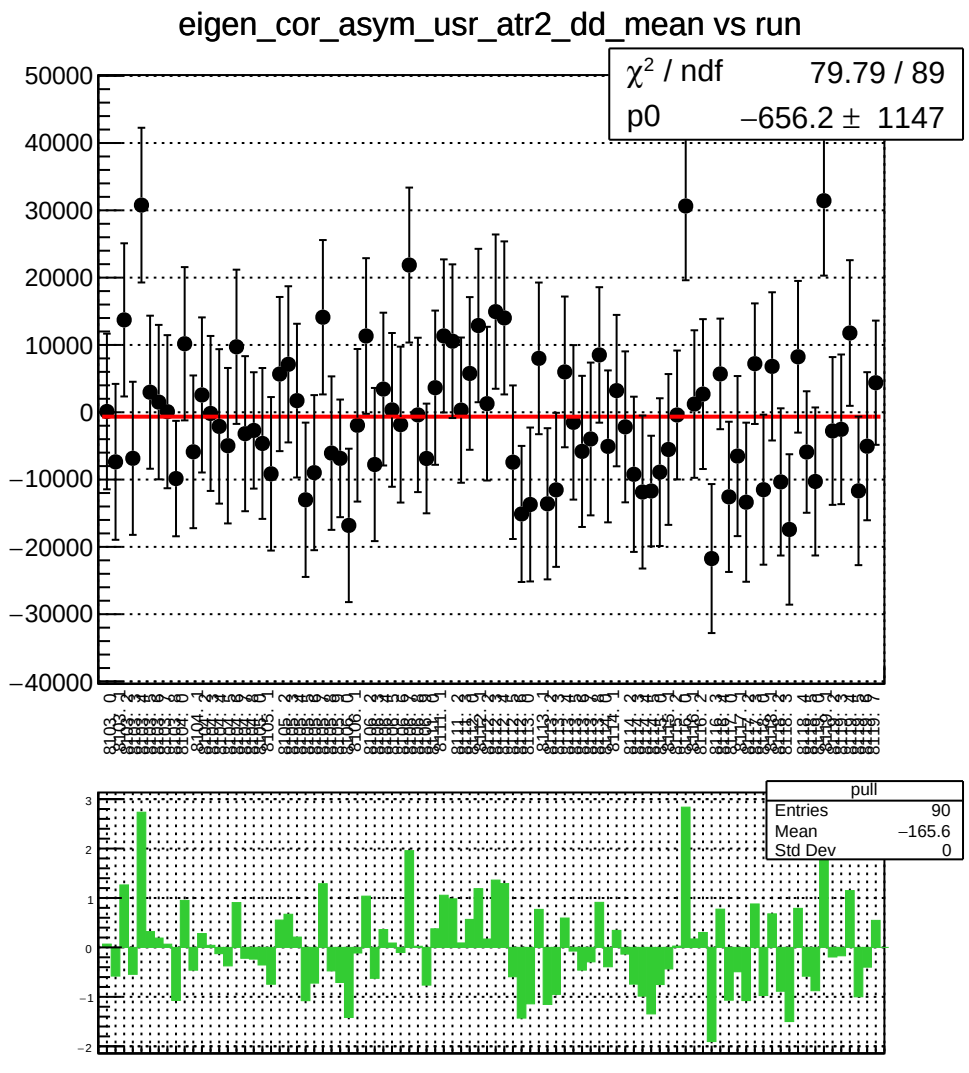

pull1D
Entries 90
Mean 0.01145
Std Dev 0.9415

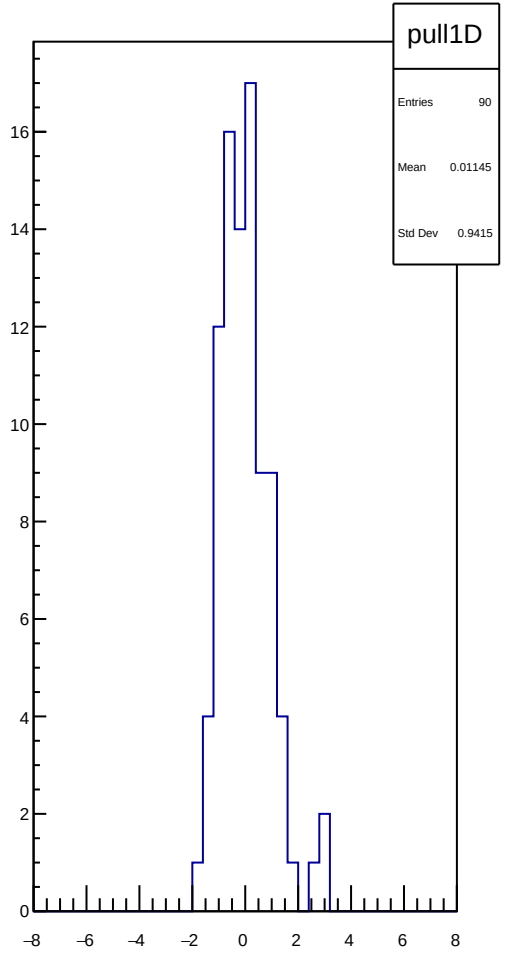

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 628.3 / 89
p0 1076 ± 0.8111
1140
1120
1100
1080
1060
1040
1020

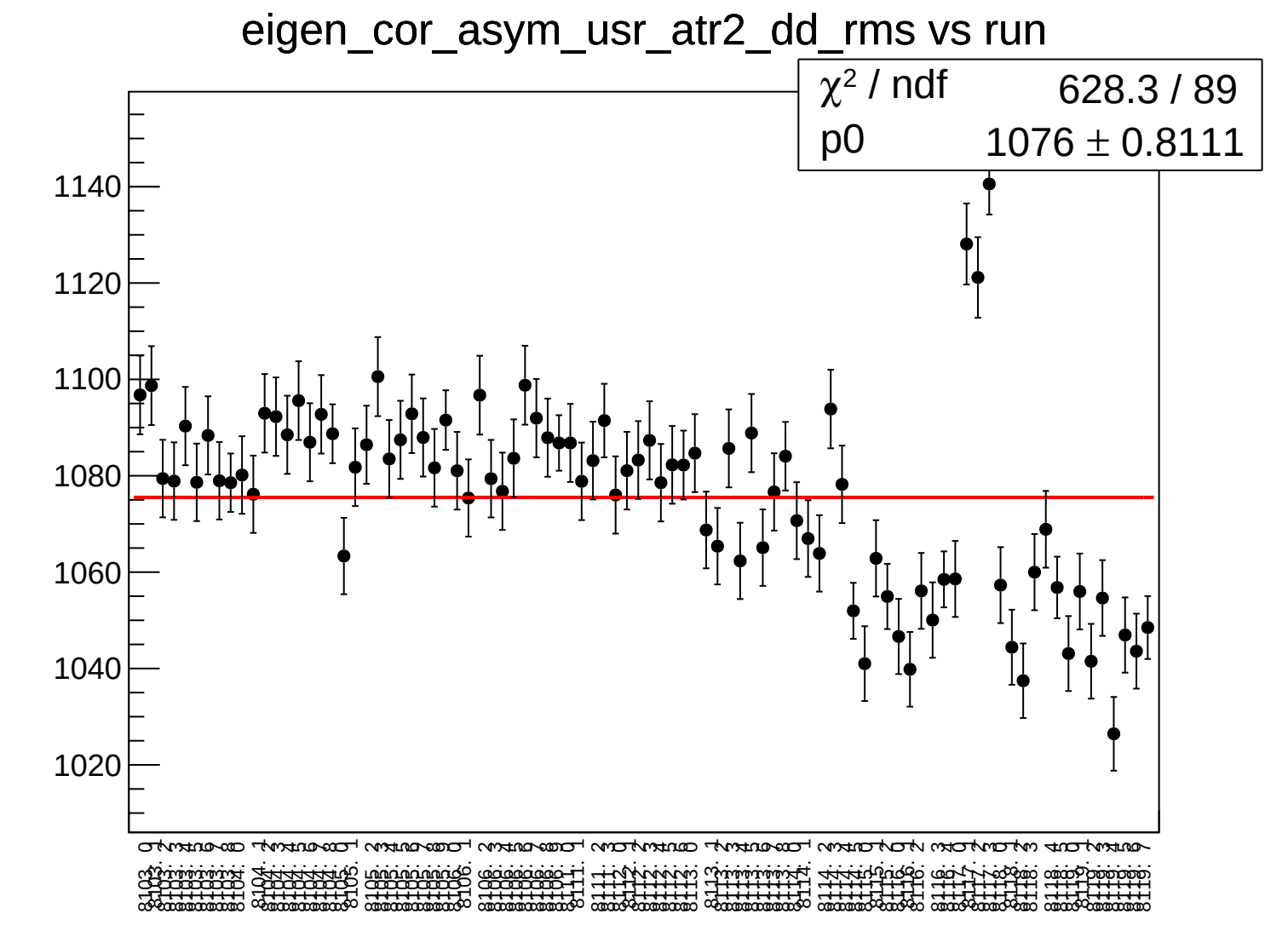

asym_usr_atr2_dd_cor_correction_mean vs run
χ² / ndf 89.49 / 89
p0 −6399 ± 4959
×10³
pull
Entries 90
Mean 8739
Std Dev 0

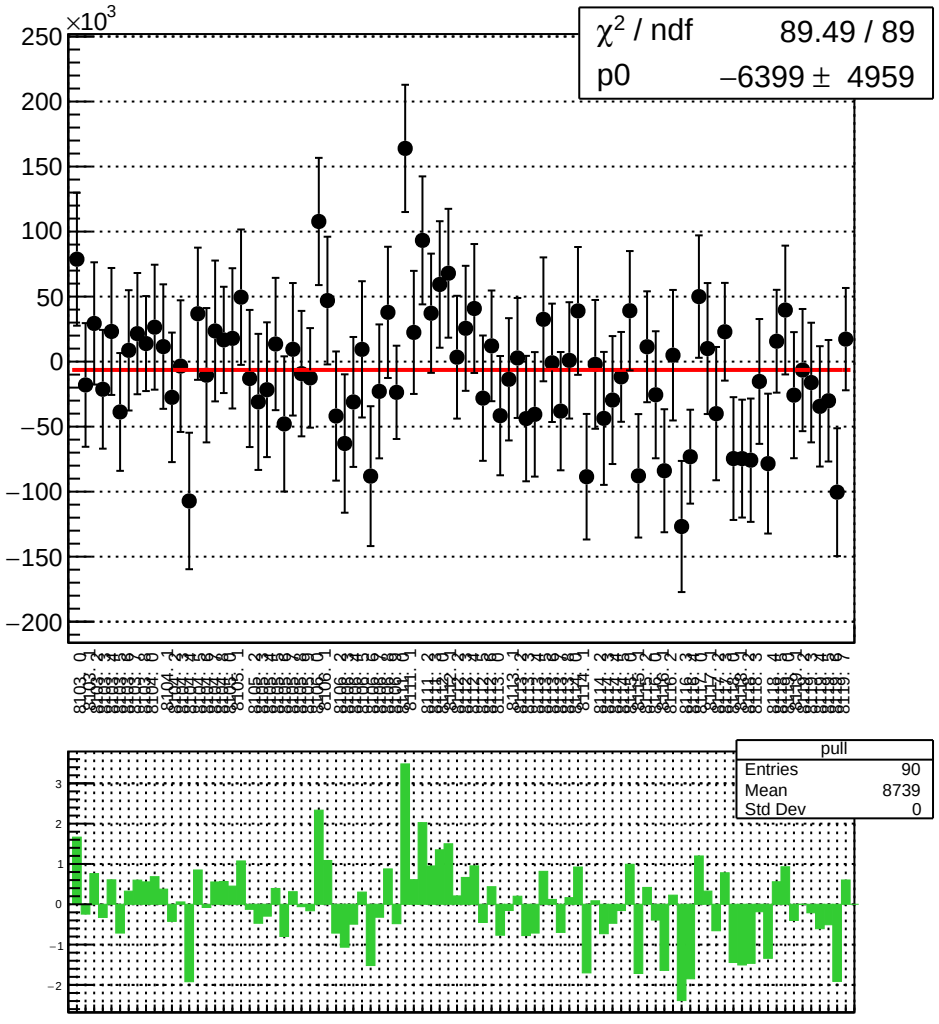

pull1D
Entries 90
Mean −0.0008278
Std Dev 0.9972

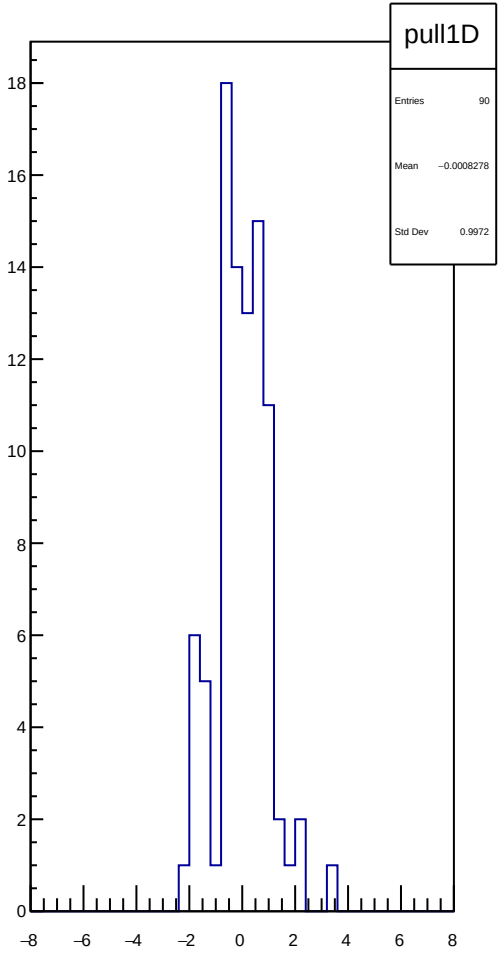

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3540 / 89
p0 4646 ± 3.507
5200
5000
4800
4600
4400
4200

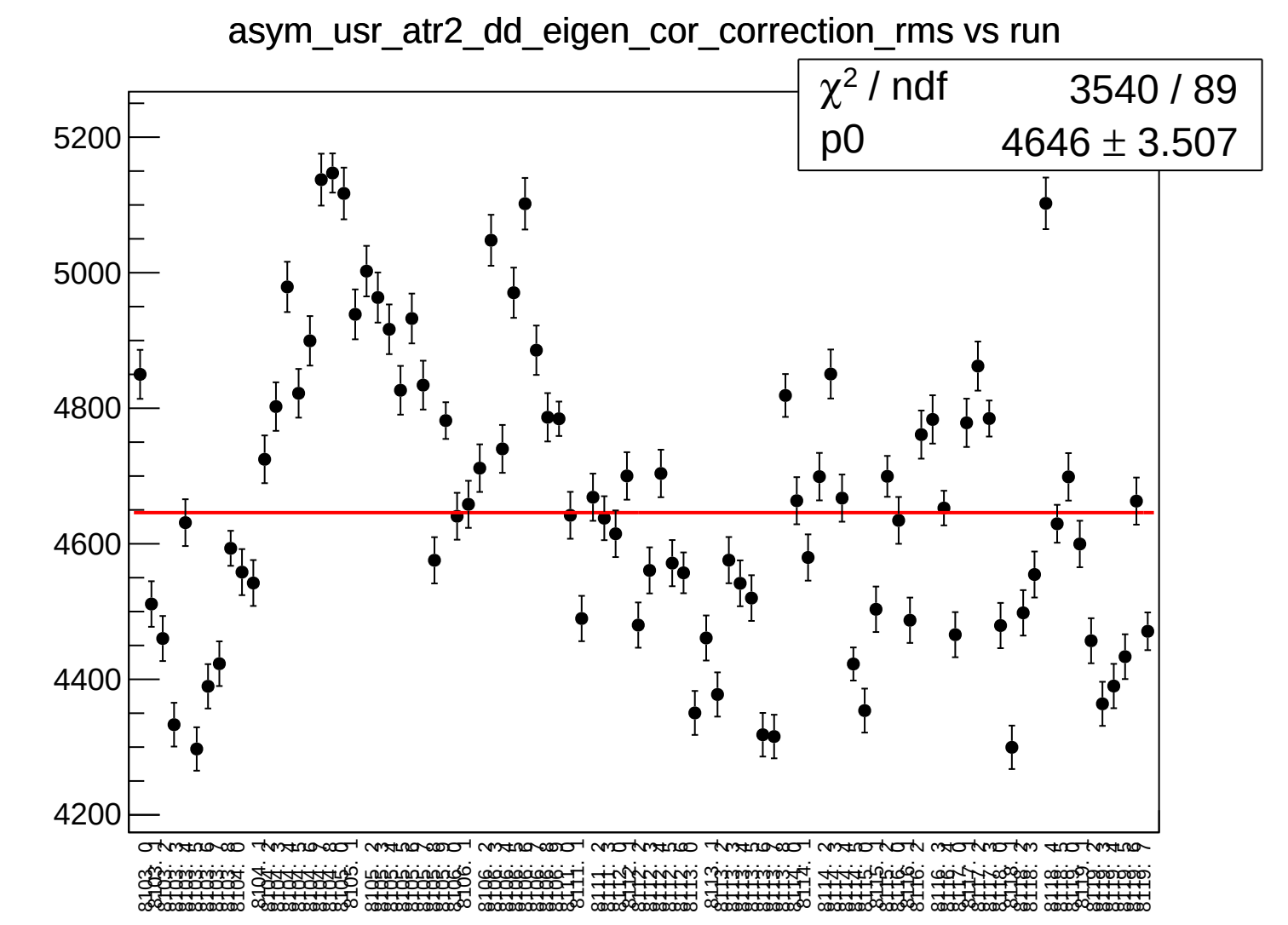

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 79.79 / 89
p0 −656.2 ± 1147
pull
Entries 90
Mean −165.6
Std Dev 0

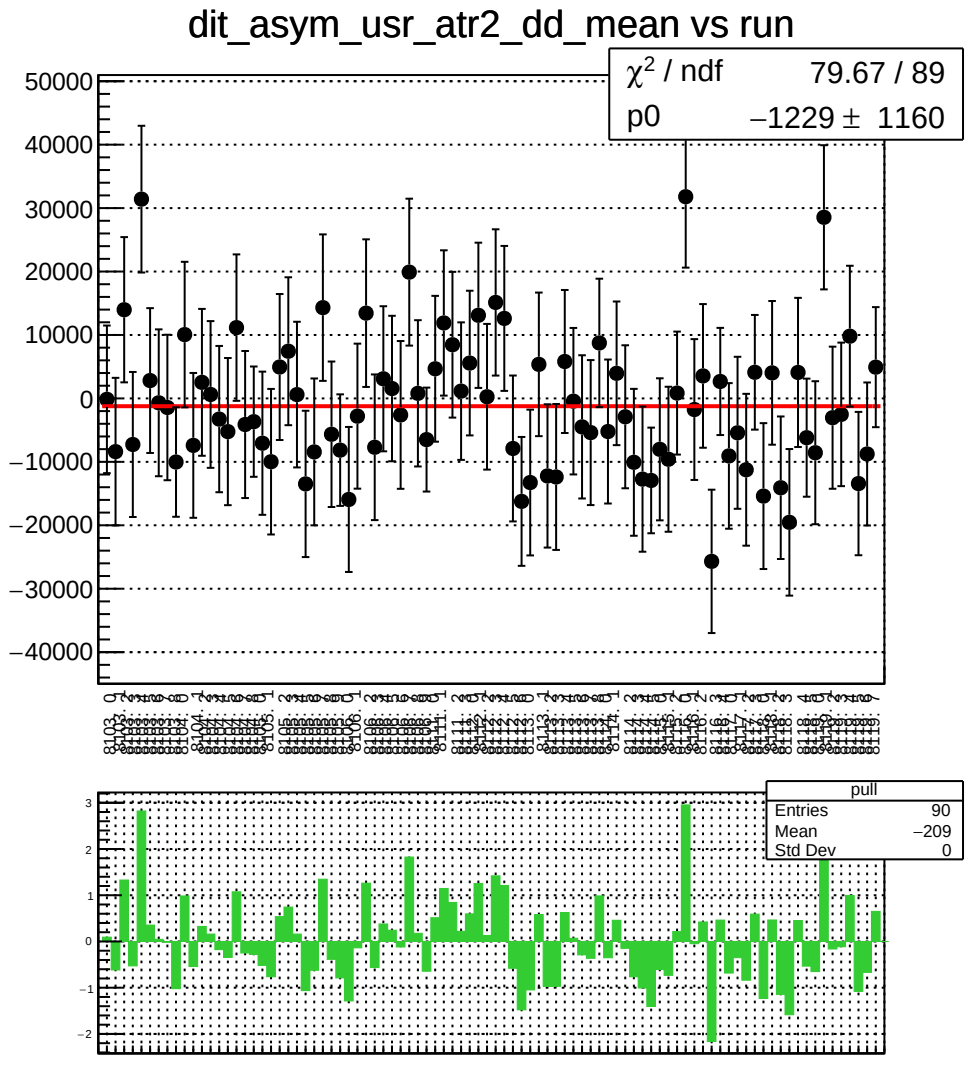

pull1D
Entries 90
Mean 0.01145
Std Dev 0.9415

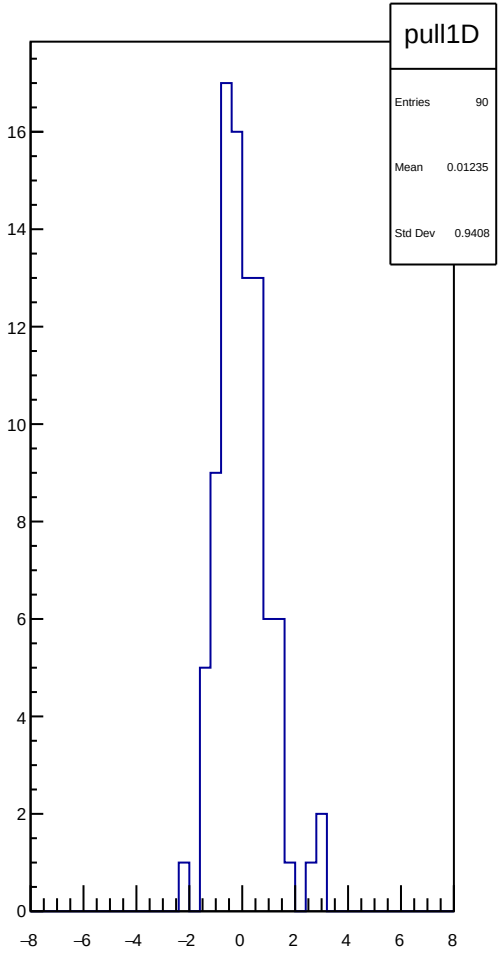

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 628.3 / 89
p0 1076 ± 0.8111
1140
1120
1100
1080
1060
1040
1020

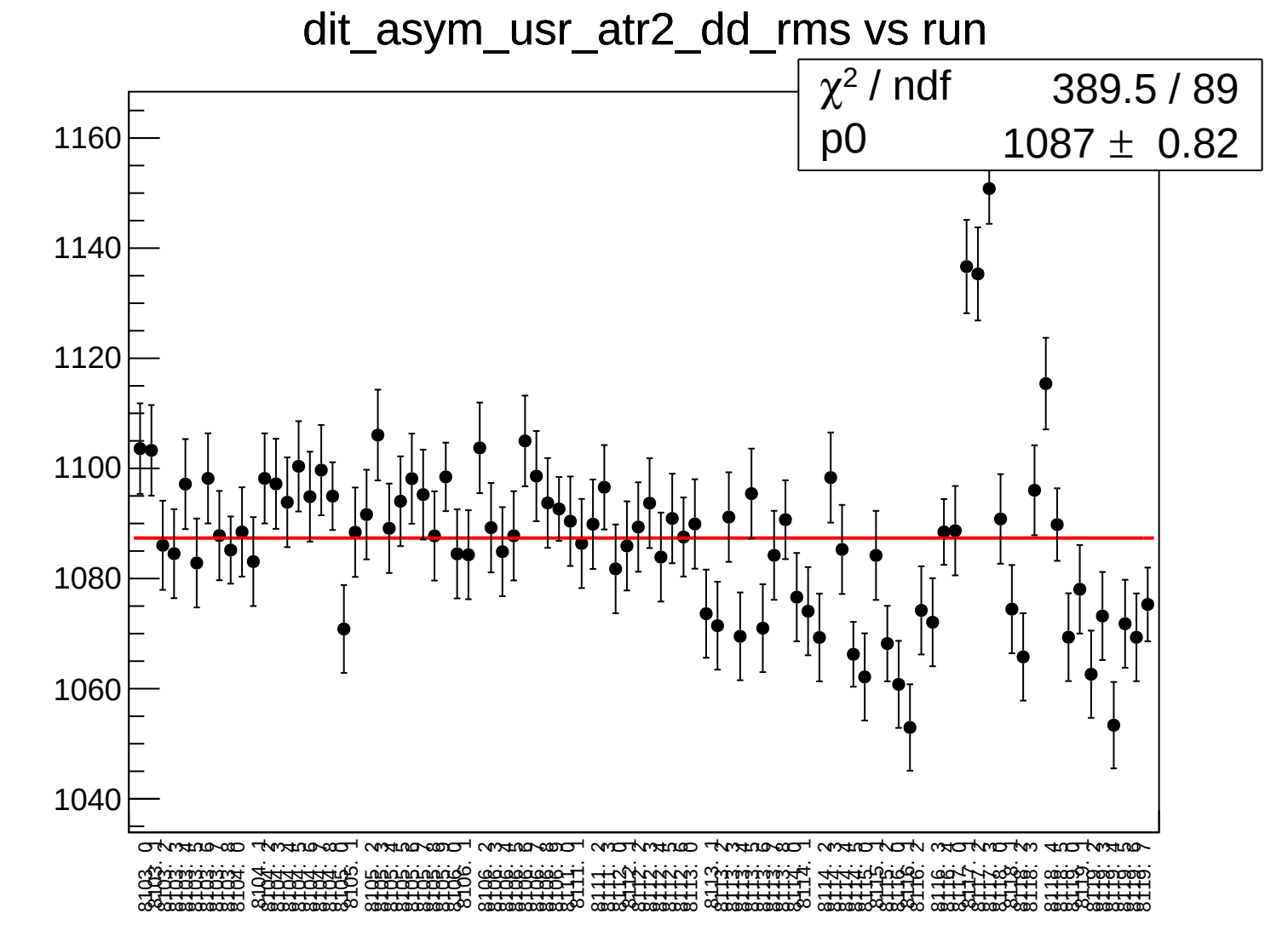

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.49 / 89
p0 −6399 ± 4959
pull
Entries 90
Mean 8739
Std Dev 0

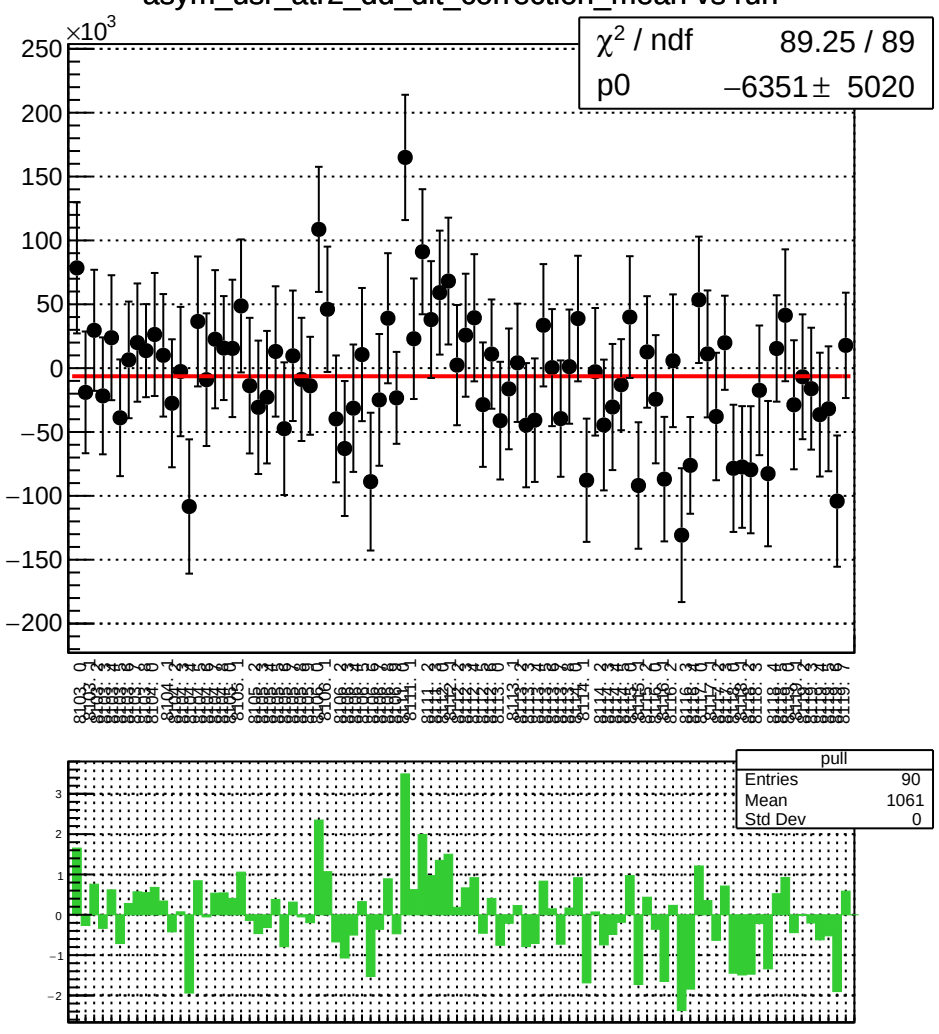

pull1D
Entries 90
Mean −0.0008278
Std Dev 0.9972

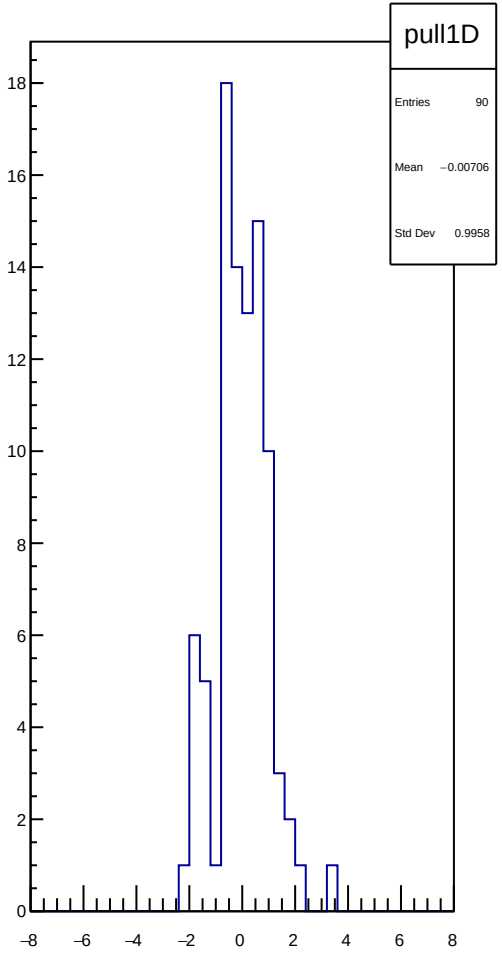

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3540 / 89
p0 4646 ± 3.507
5200
5000
4800
4600
4400
4200

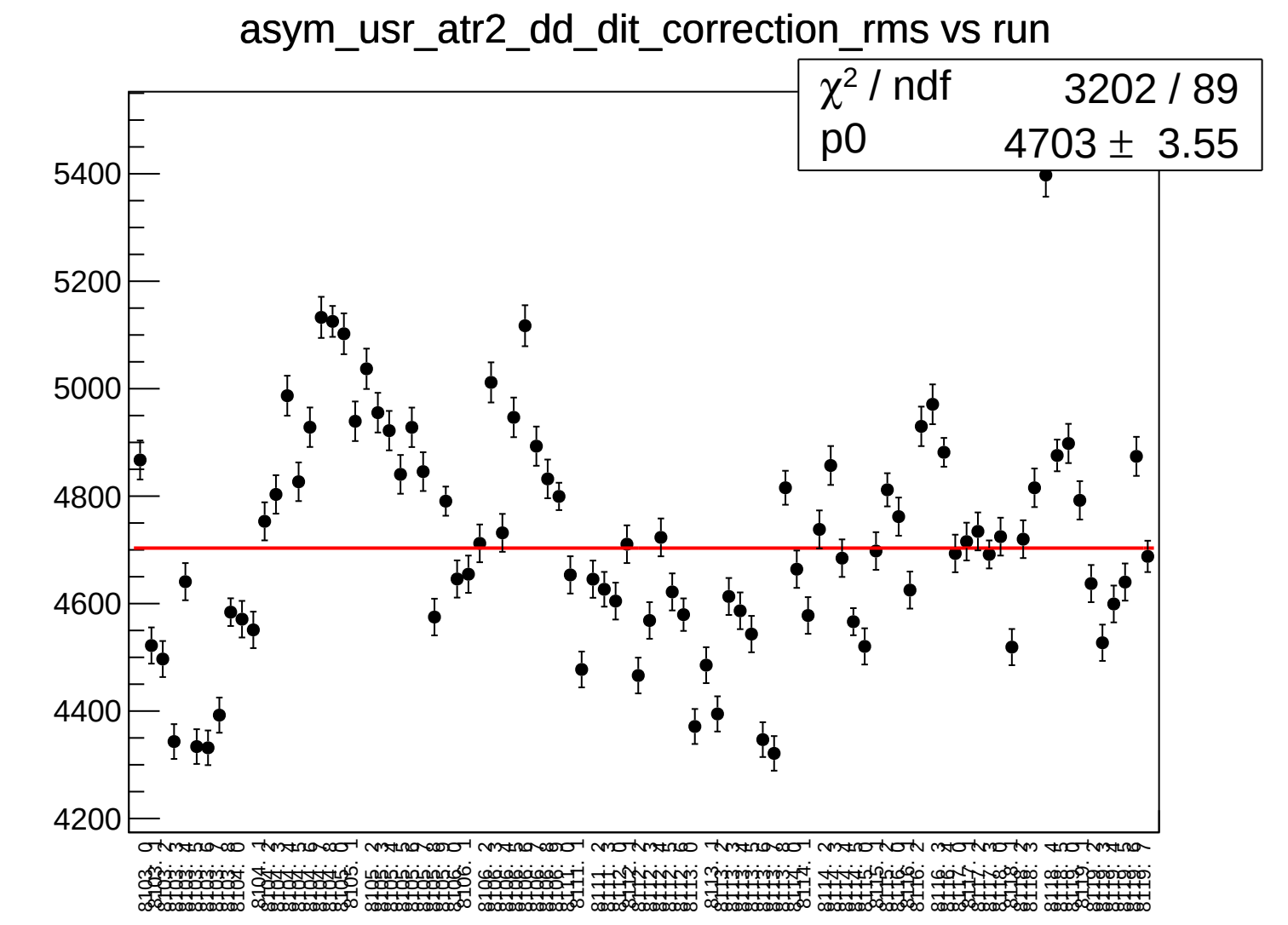

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 79.67 / 89
p0 −1229 ± 1160
pull
Entries 90
Mean −209
Std Dev 0

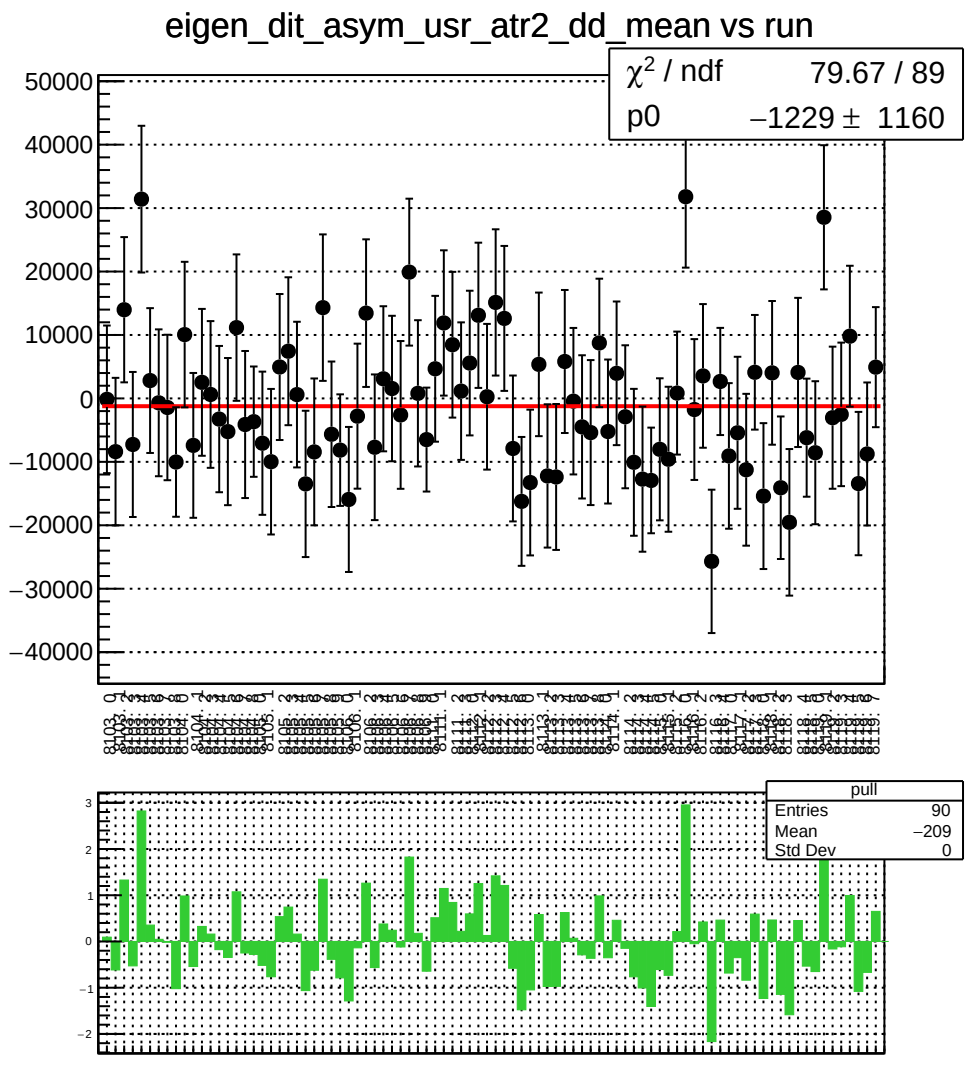

pull1D
Entries 90
Mean 0.01235
Std Dev 0.9408

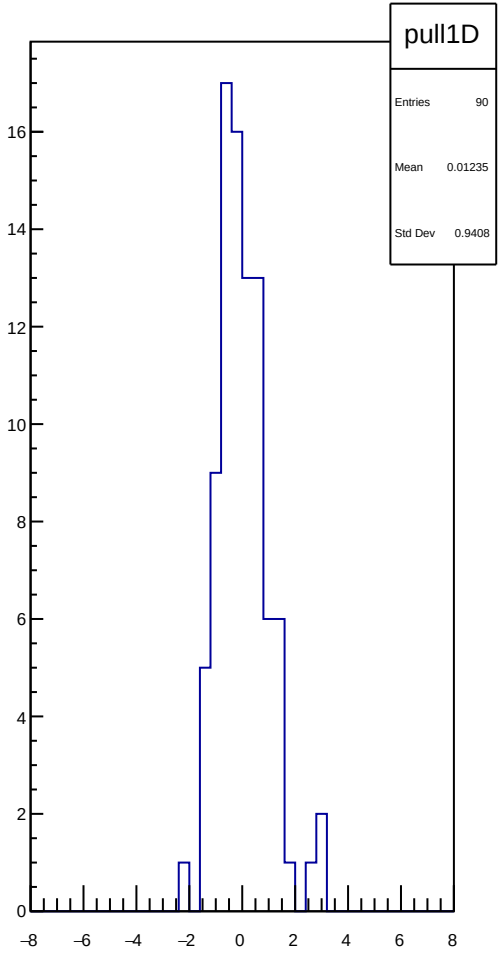

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 389.5 / 89
p0 1087 ± 0.82
1160
1140
1120
1100
1080
1060
1040

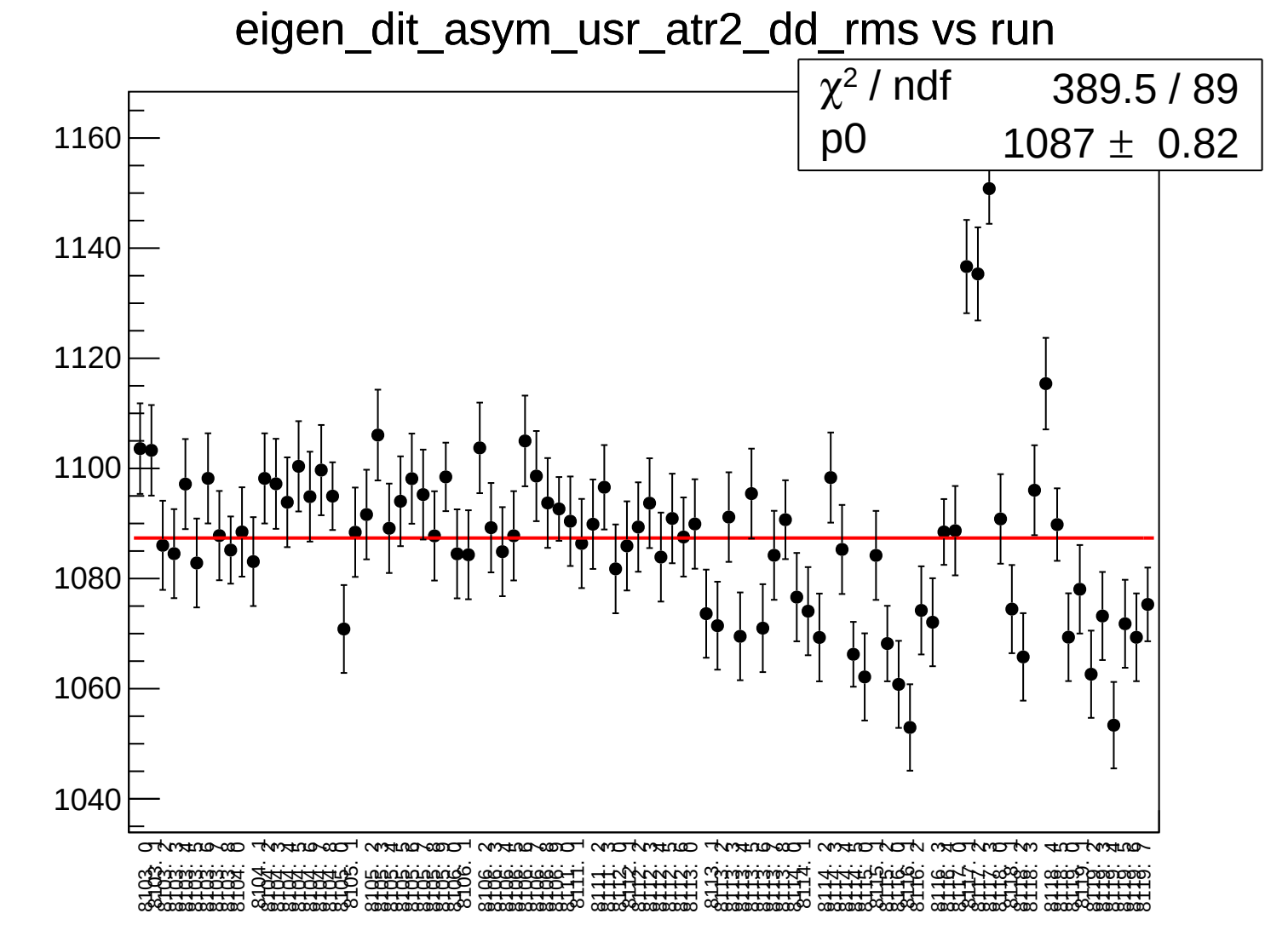

asym_usr_atr2_dd_dit_correction_mean vs run
χ² / ndf 89.25 / 89
p0 −6351 ± 5020
pull
Entries 90
Mean 1061
Std Dev 0

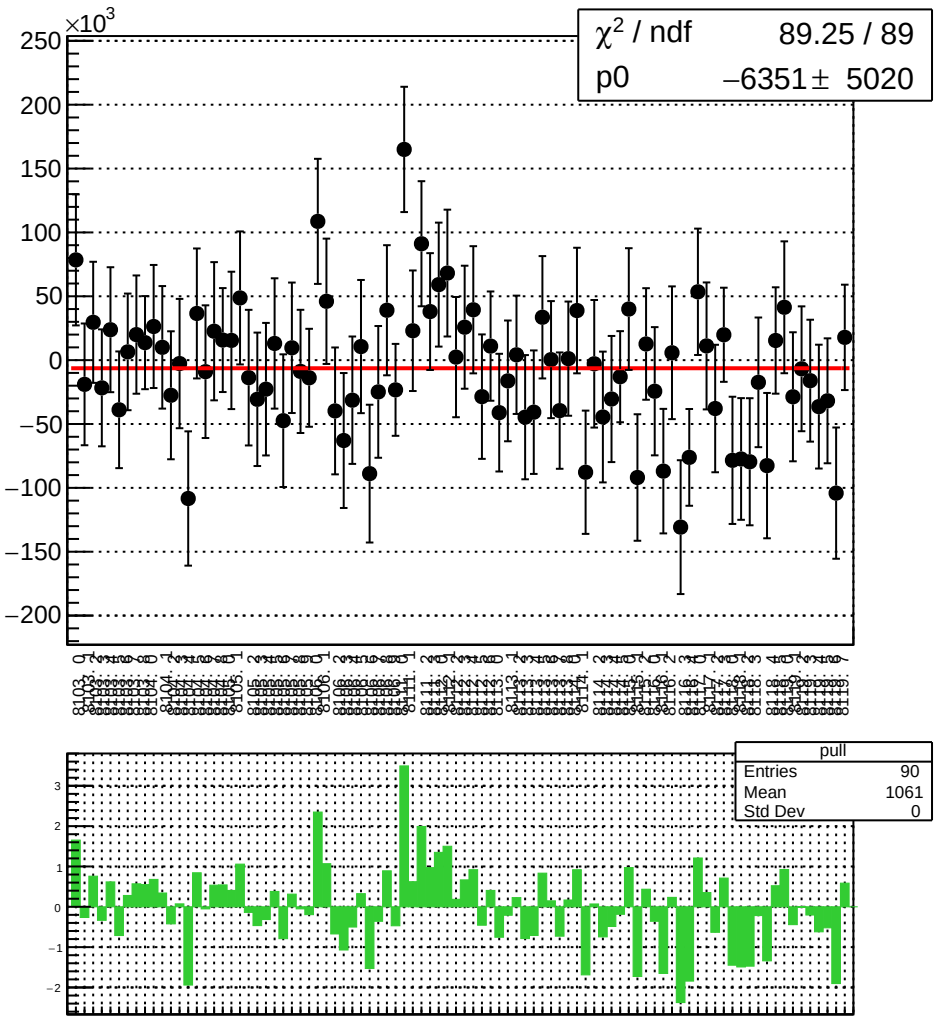

pull1D
Entries 90
Mean −0.00706
Std Dev 0.9958

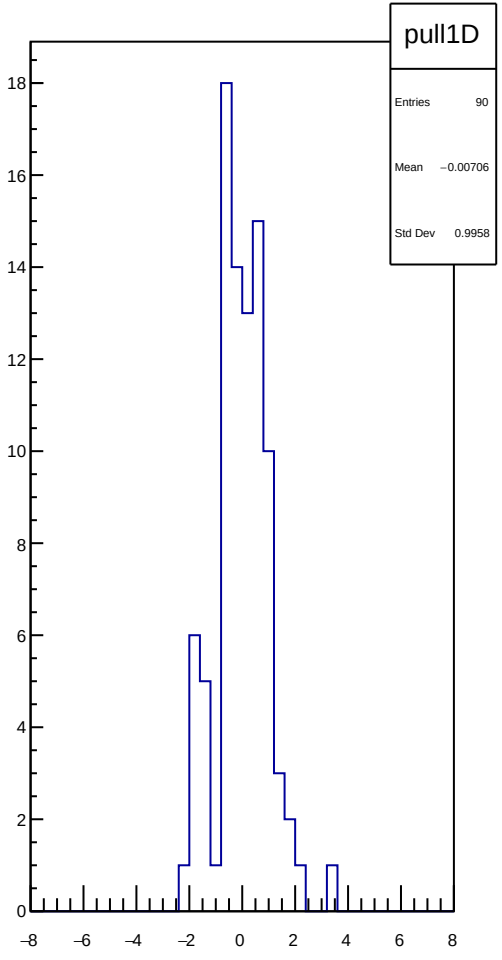

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 3202 / 89
p0 4703 ± 3.55
5400
5200
5000
4800
4600
4400
4200

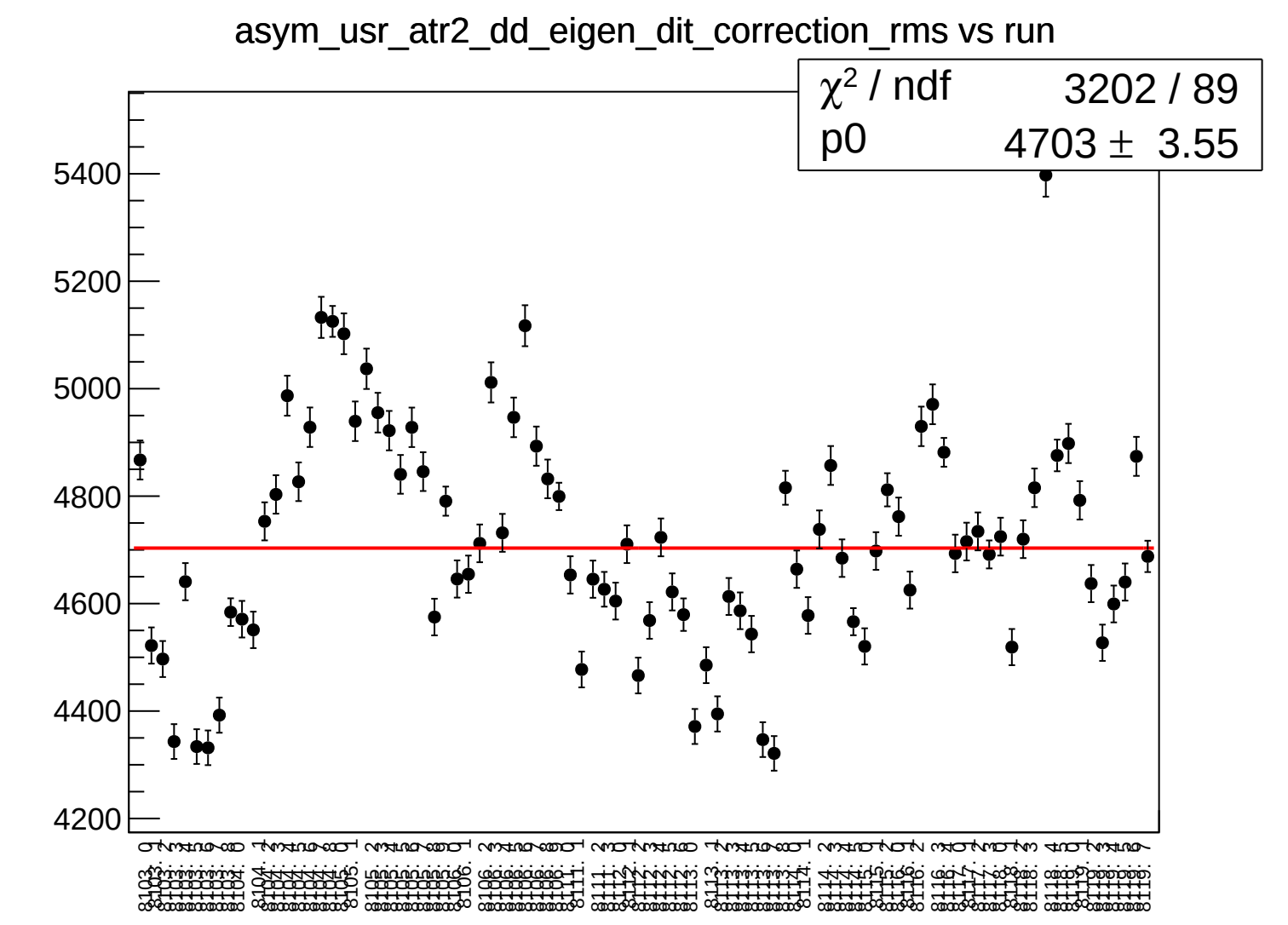

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 79.67 / 89
p0 −1229 ± 1160
pull
Entries 90
Mean −209
Std Dev 0

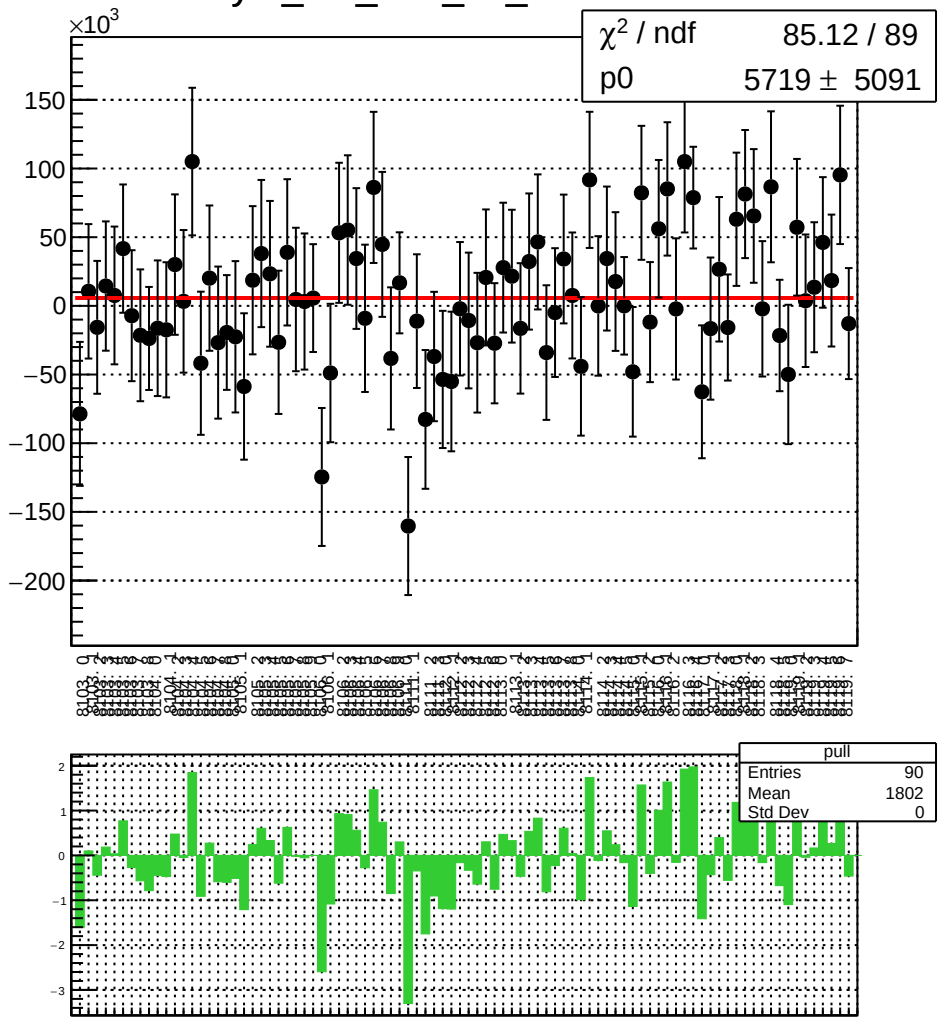

pull1D
Entries 90
Mean 0.01235
Std Dev 0.9408

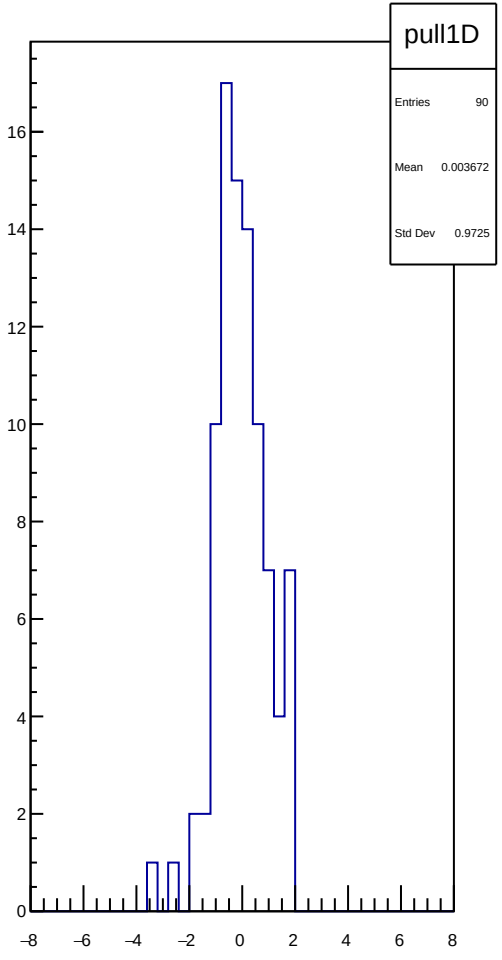

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 389.5 / 89
p0 1087 ± 0.82
1160
1140
1120
1100
1080
1060
1040

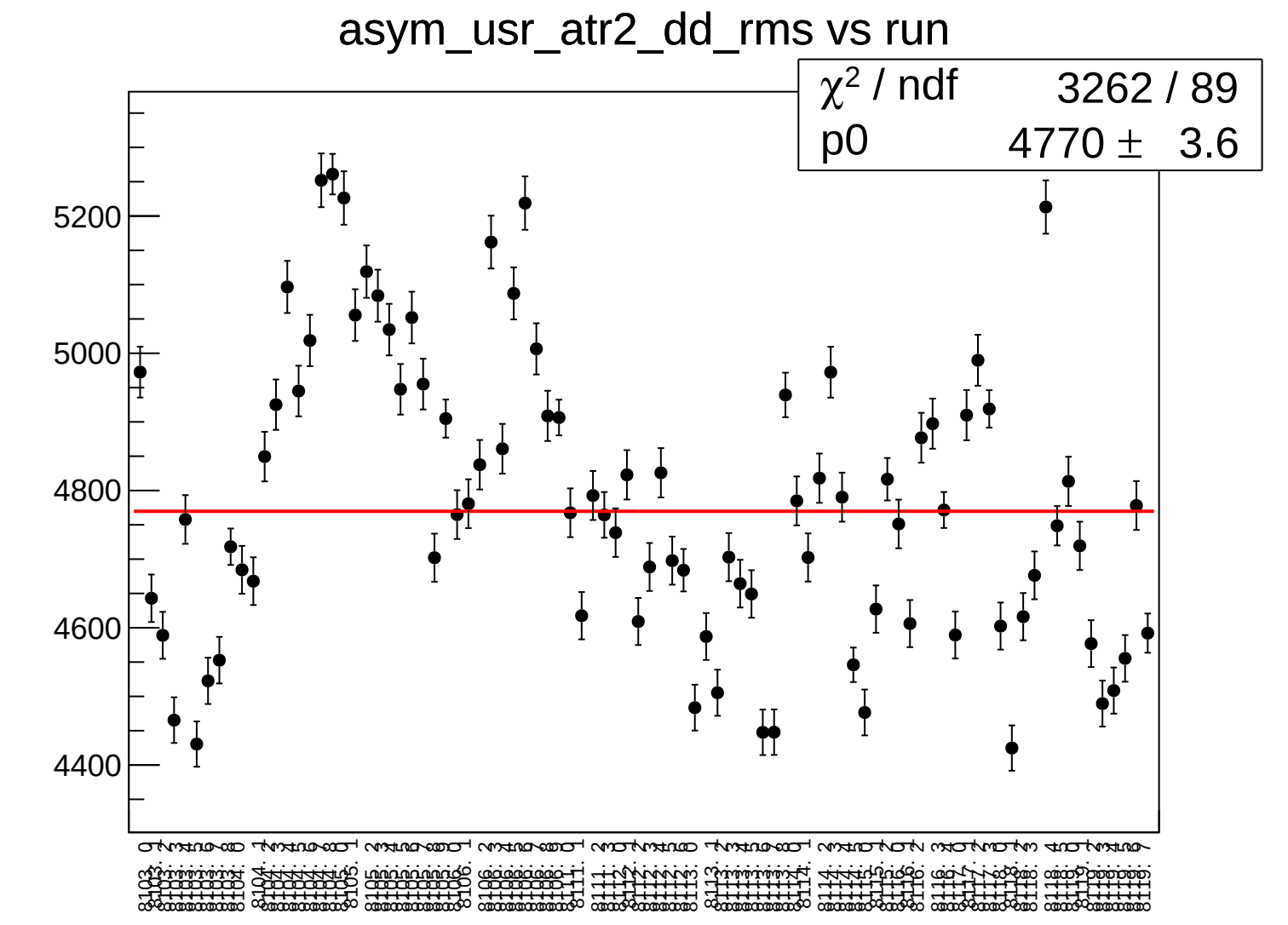

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.25 / 89
p0 −6351 ± 5020
pull
Entries 90
Mean 1061
Std Dev 0

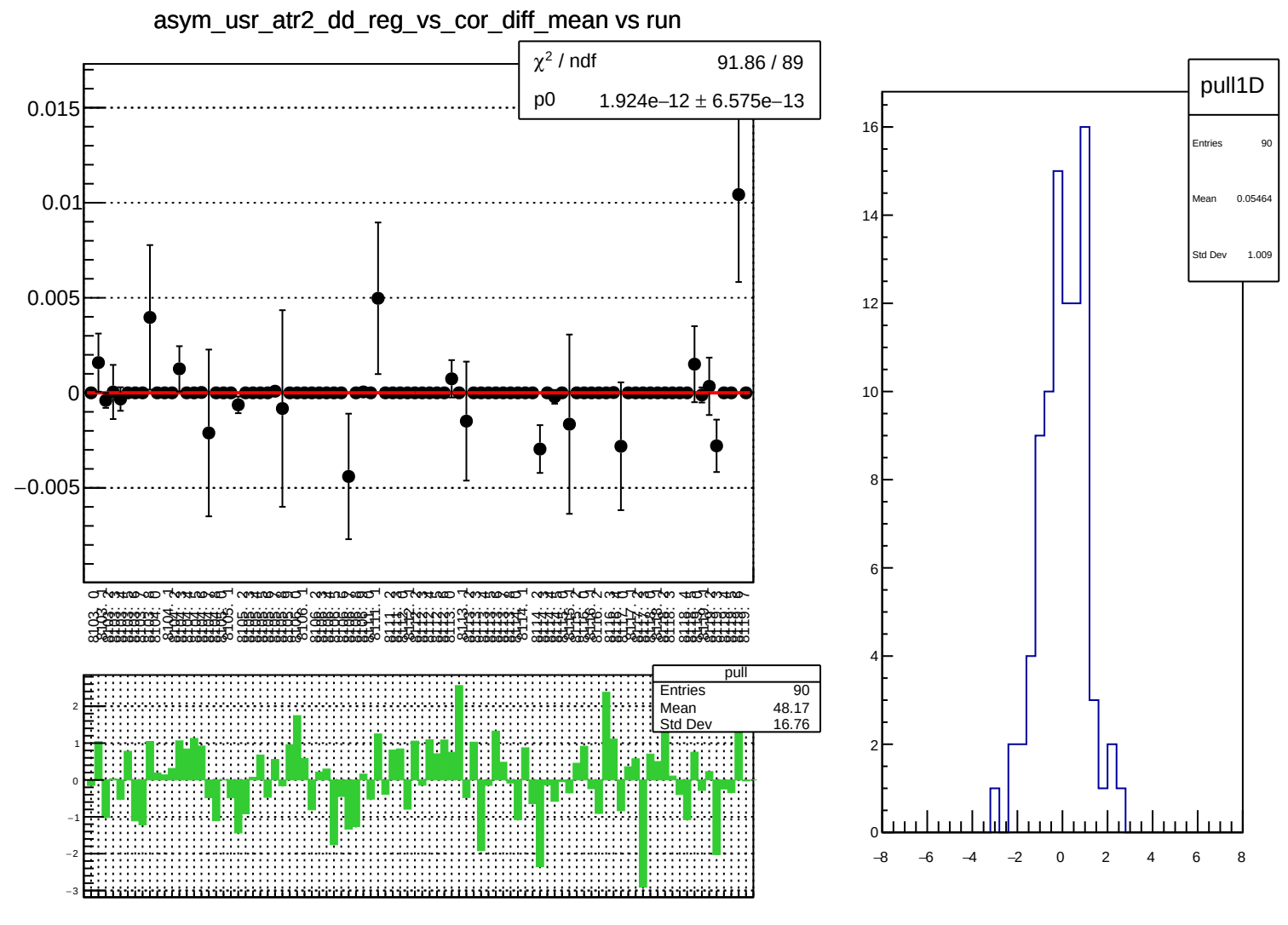

pull1D
Entries 90
Mean −0.00706
Std Dev 0.9958

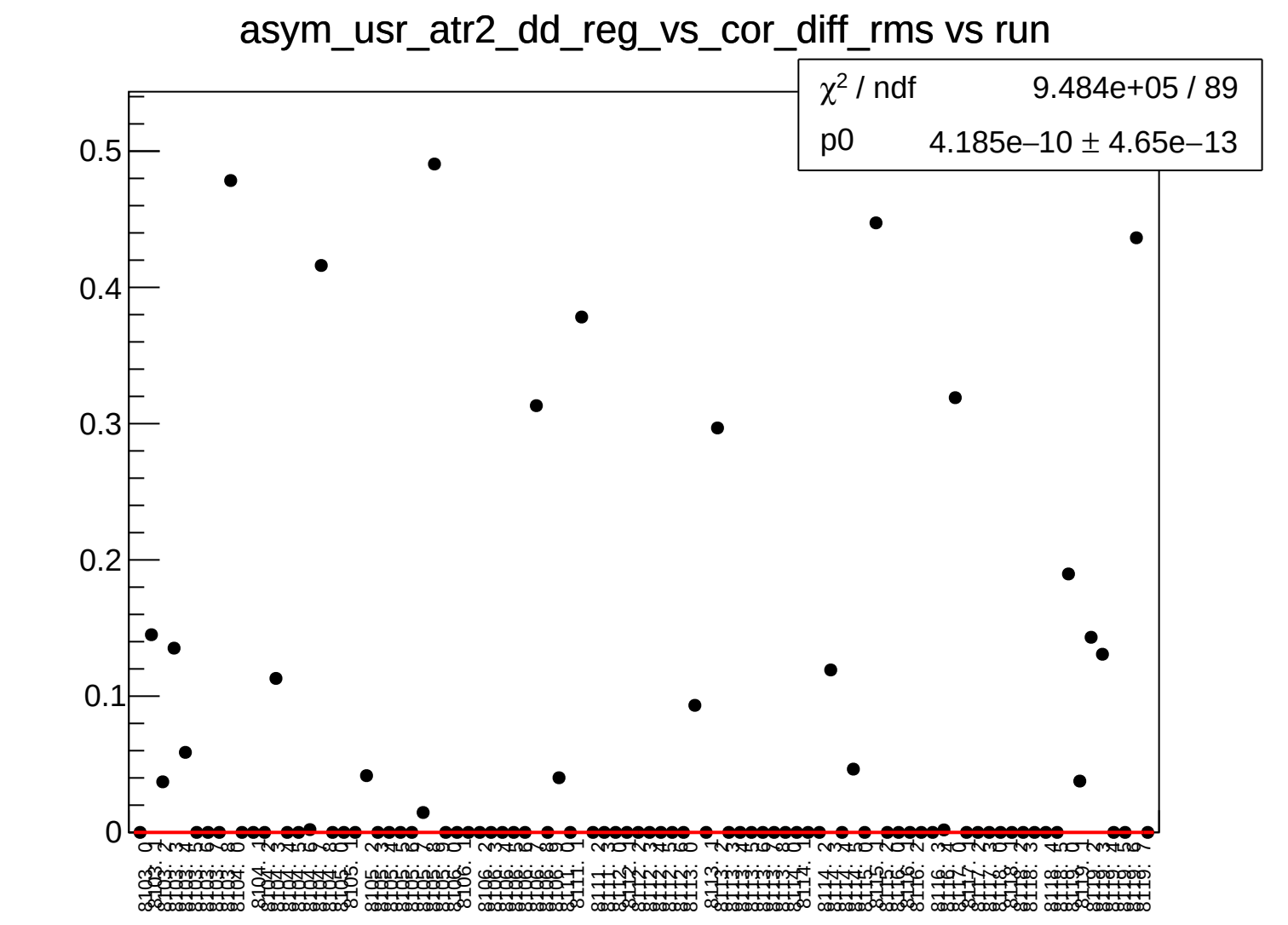

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3202 / 89
p0 4703 ± 3.55
5400
5200
5000
4800
4600
4400
4200

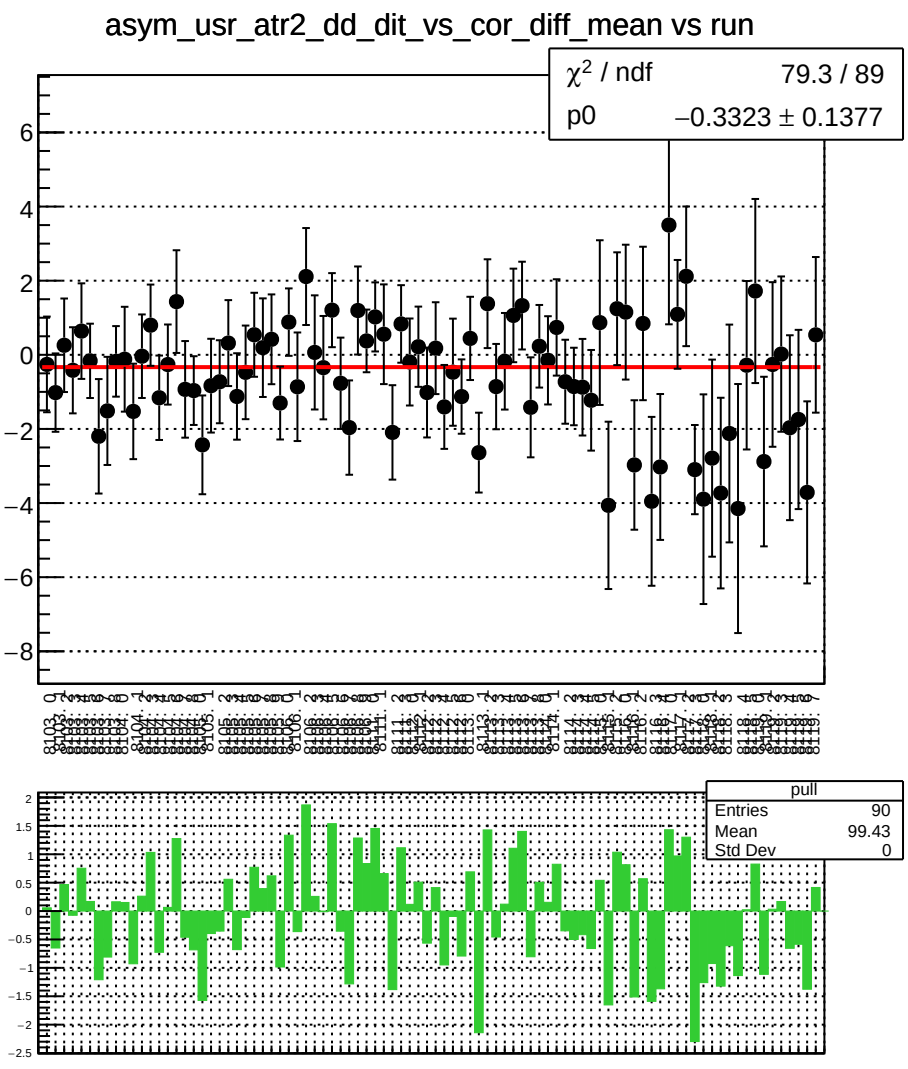

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 85.12 / 89
p0 5719 ± 5091
150
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean 1802
Std Dev 0
2
1
0
−1
−2
−3

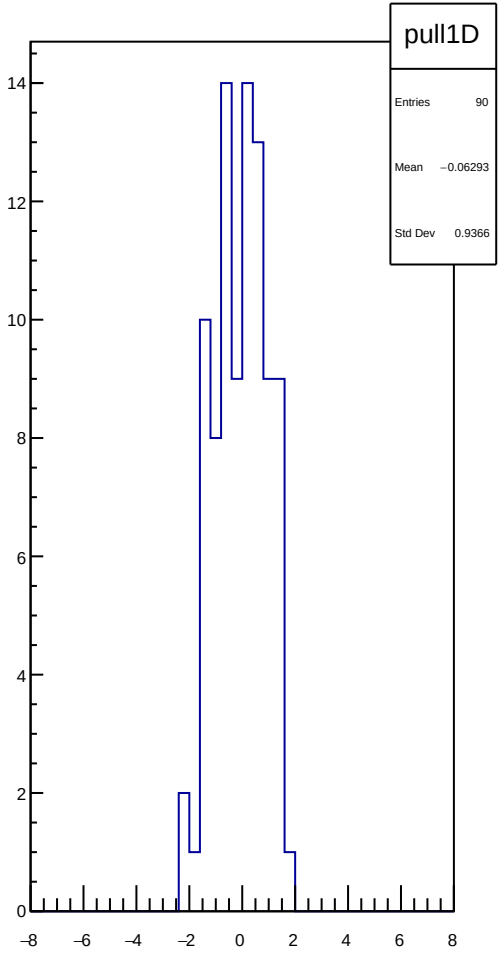

pull1D
Entries 90
Mean 0.003672
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

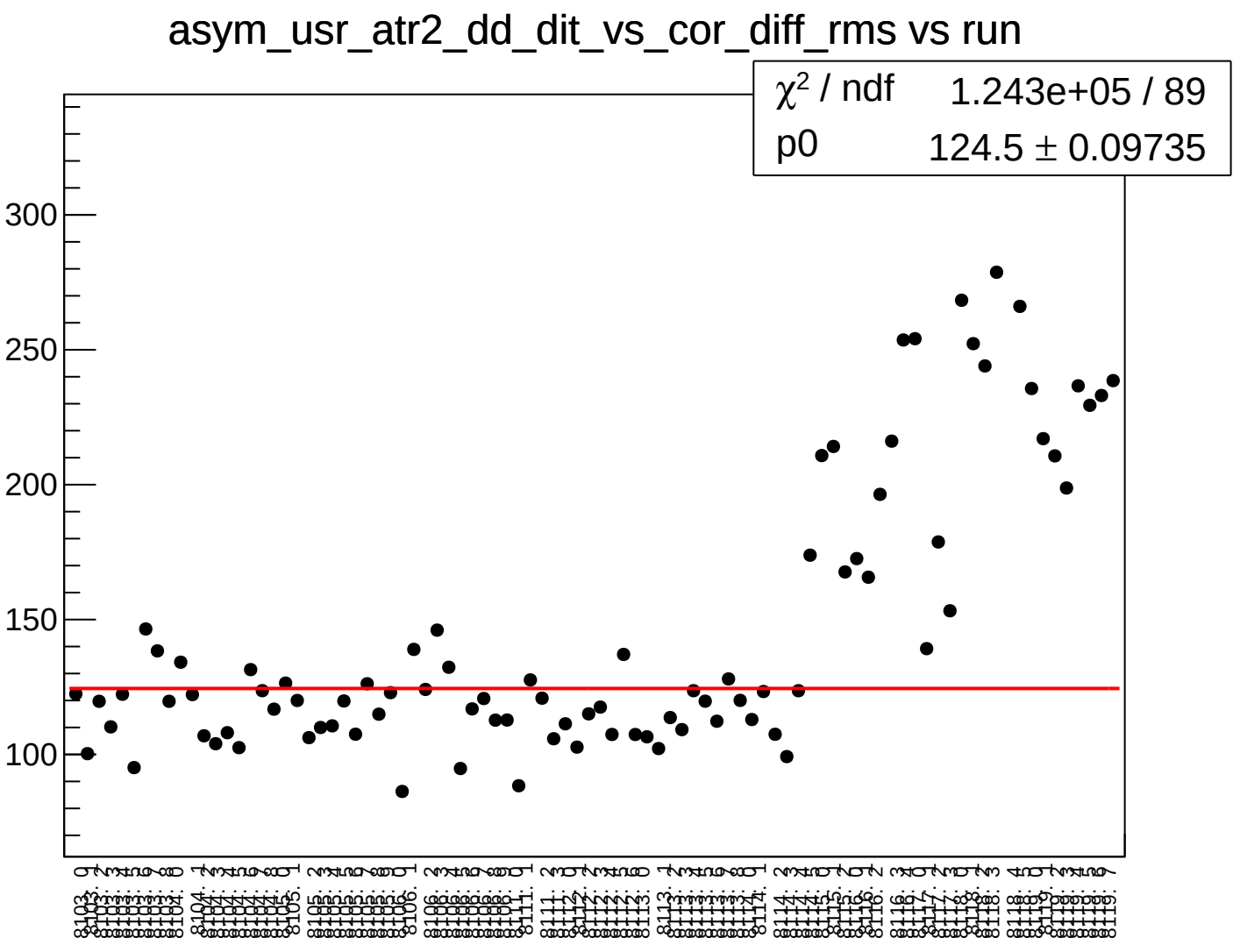

asym_usr_atr2_dd_rms vs run
χ² / ndf 3262 / 89
p0 4770 ± 3.6
5200
5000
4800
4600
4400

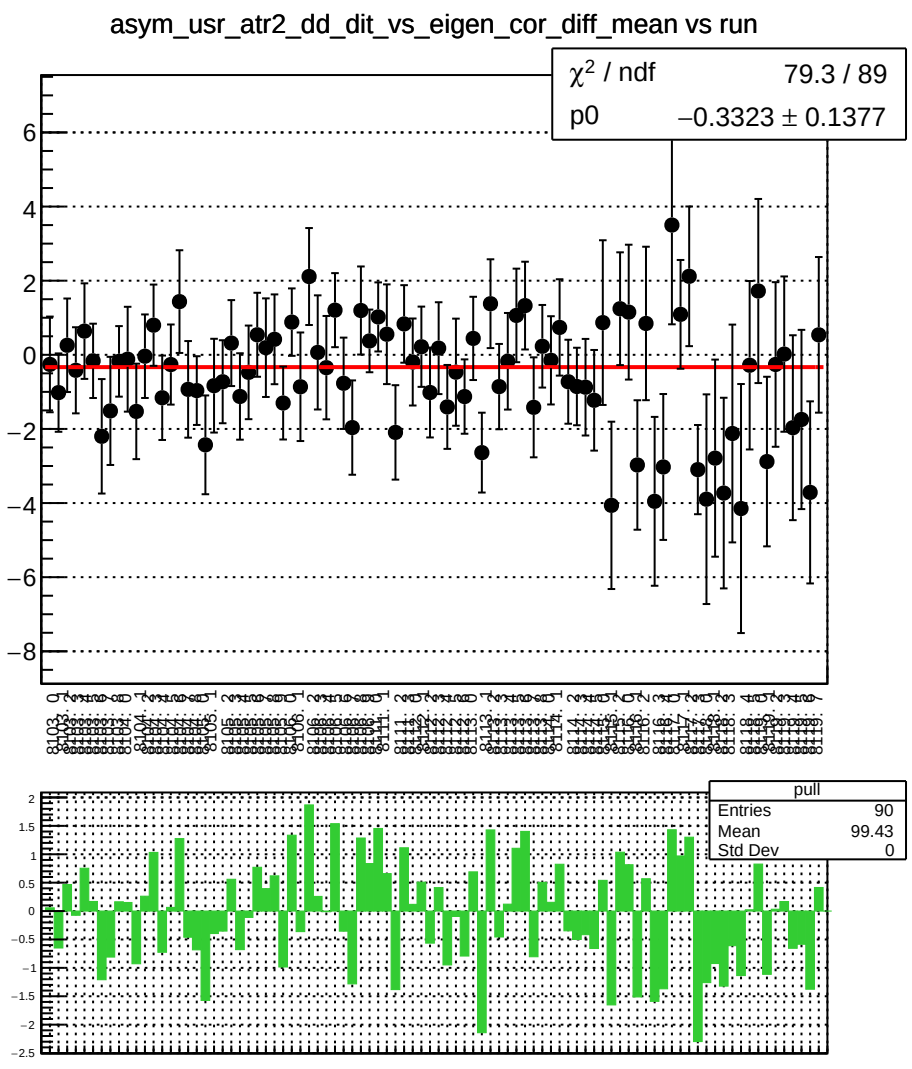

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.86 / 89
p0 1.924e−12 ± 6.575e−13
0.015
0.01
0.005
0
−0.005
pull
Entries 90
Mean 48.17
Std Dev 16.76
pull1D
Entries 90
Mean 0.05464
Std Dev 1.009

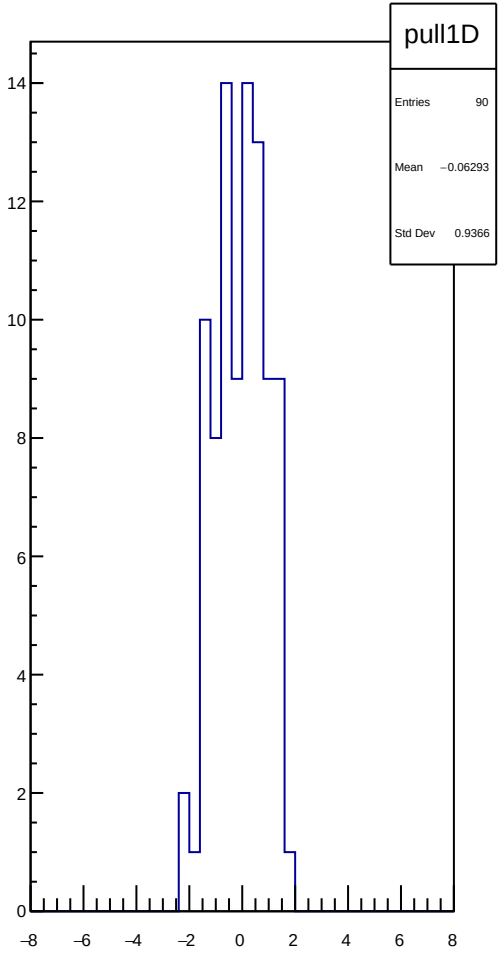

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.484e+05 / 89
p0 4.185e−10 ± 4.65e−13
0.5
0.4
0.3
0.2
0.1
0

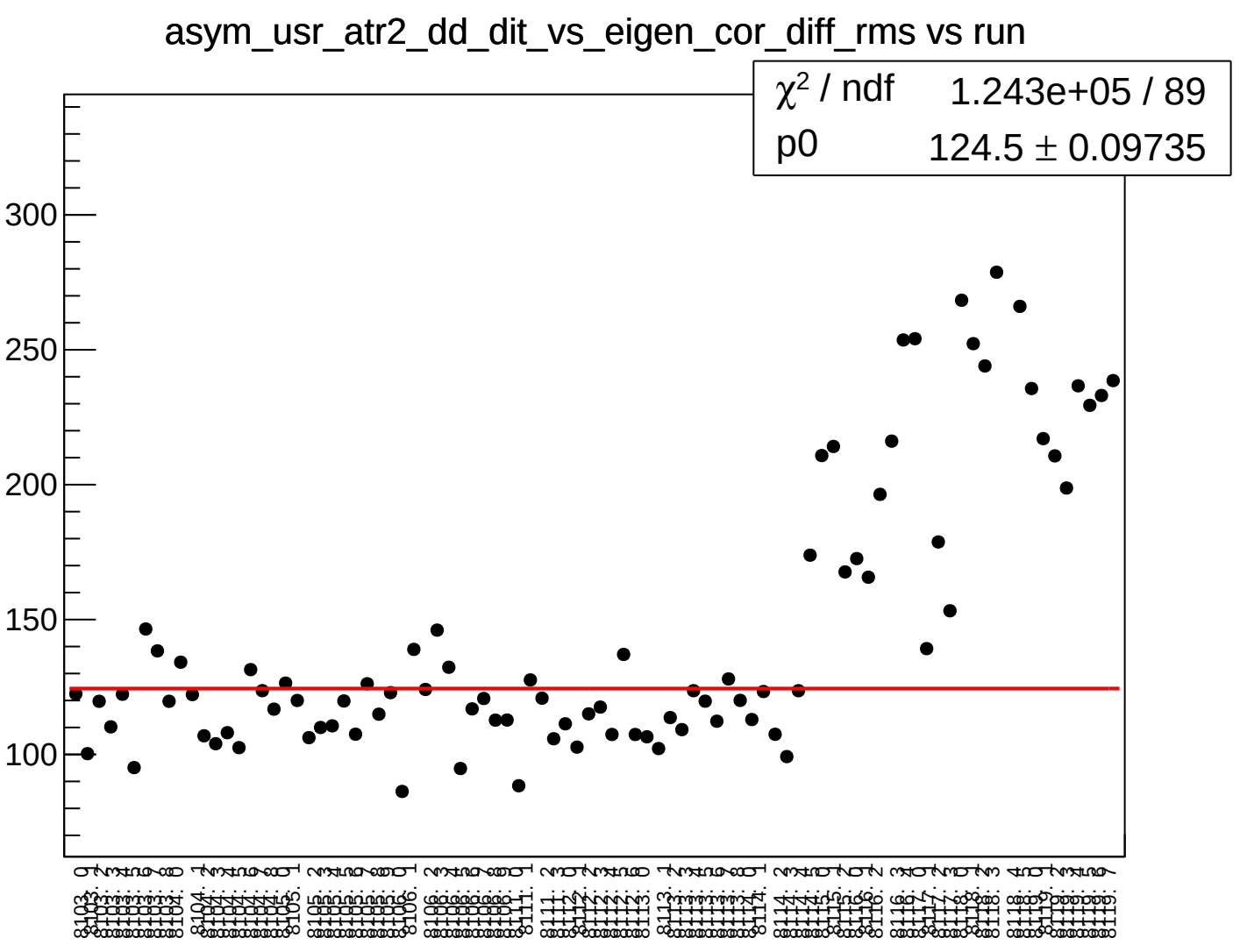

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.3 / 89
p0 −0.3323 ± 0.1377
pull
Entries 90
Mean 99.43
Std Dev 0

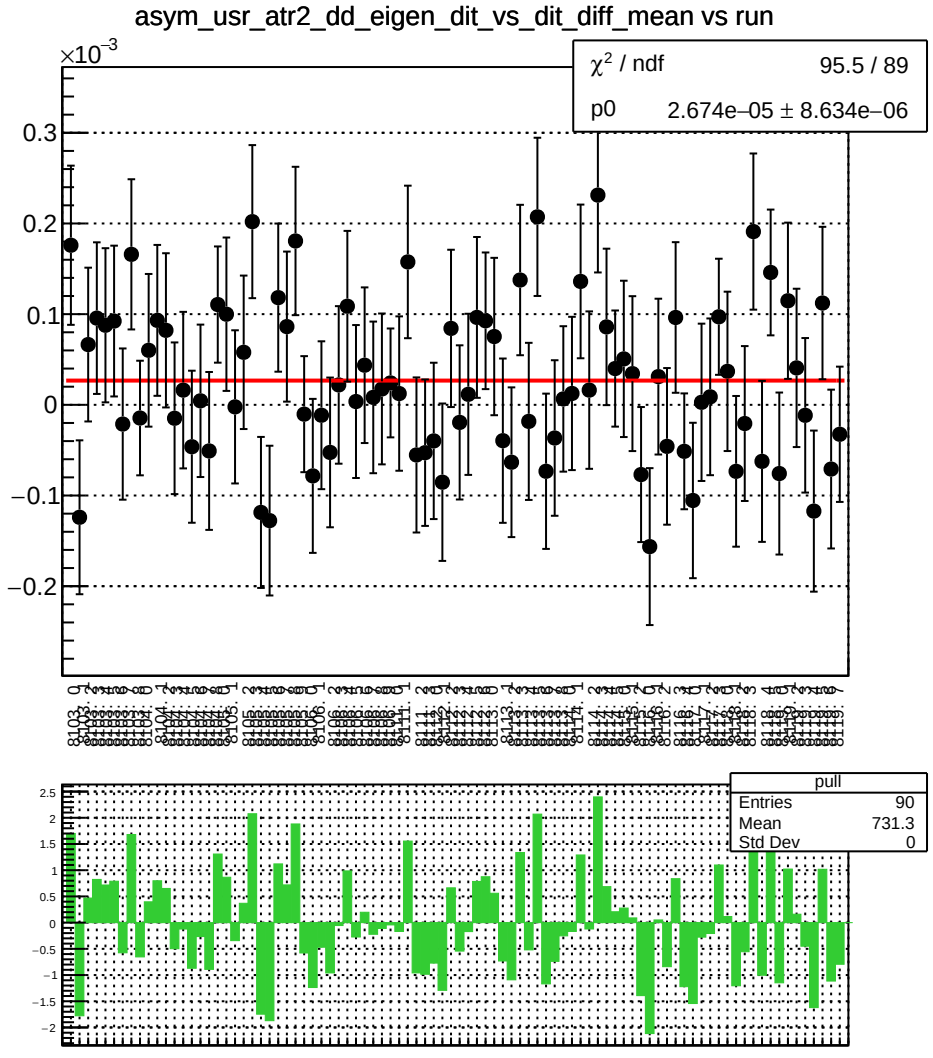

pull1D
Entries 90
Mean −0.06293
Std Dev 0.9366

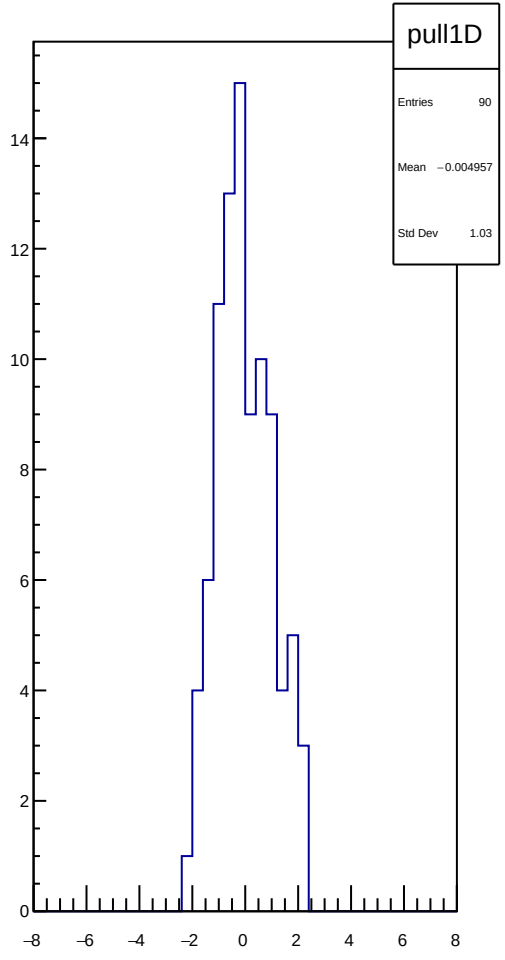

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+05 / 89
p0 124.5 ± 0.09735
300
250
200
150
100

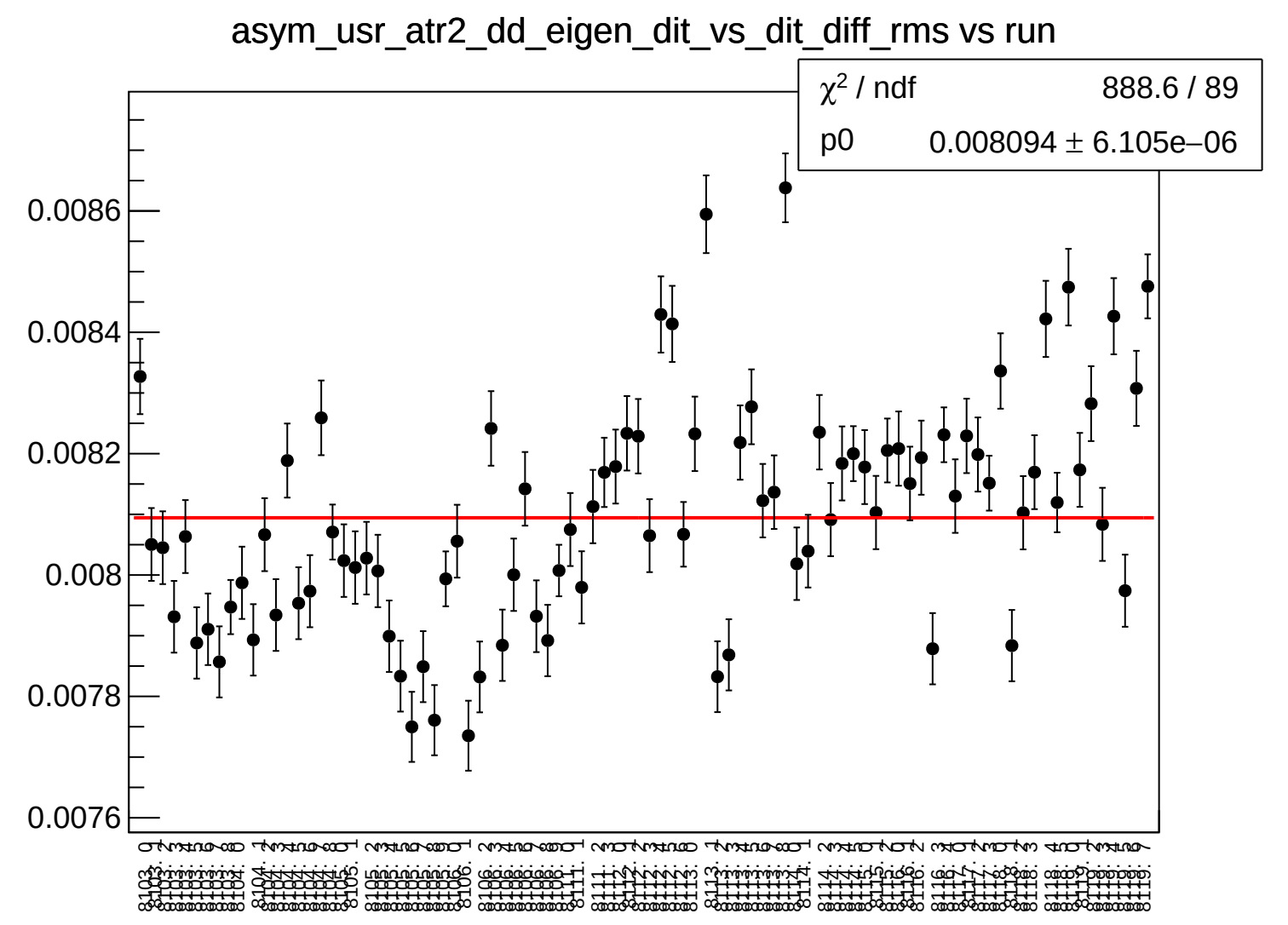

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.3 / 89
p0 −0.3323 ± 0.1377
pull
Entries 90
Mean 99.43
Std Dev 0

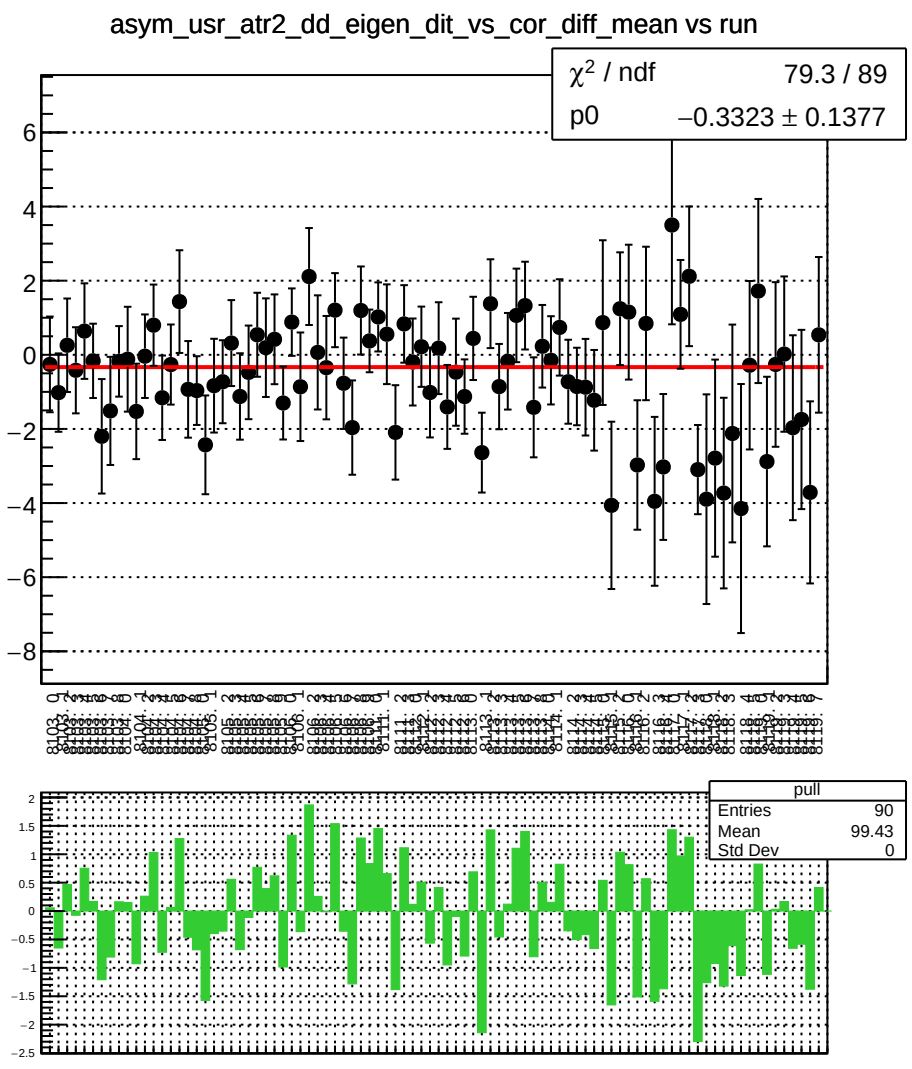

pull1D
Entries 90
Mean −0.06293
Std Dev 0.9366

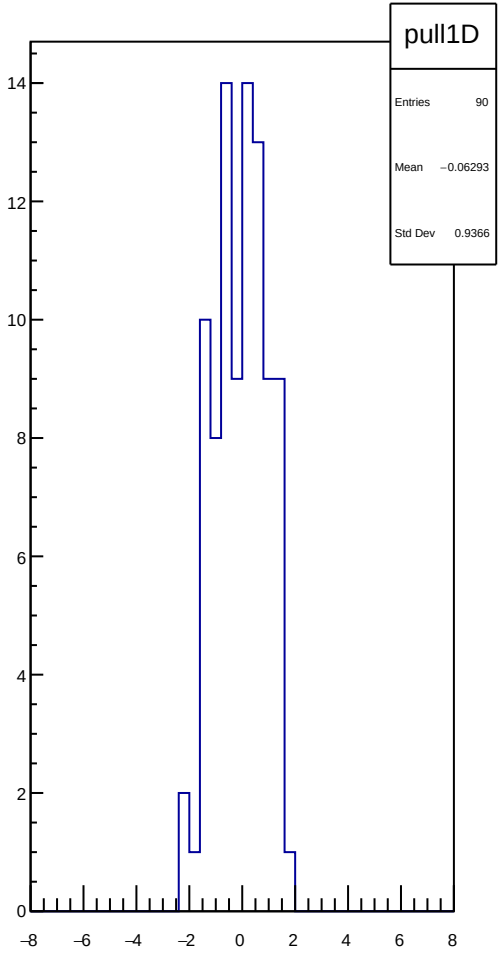

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+05 / 89
p0 124.5 ± 0.09735
300
250
200
150
100

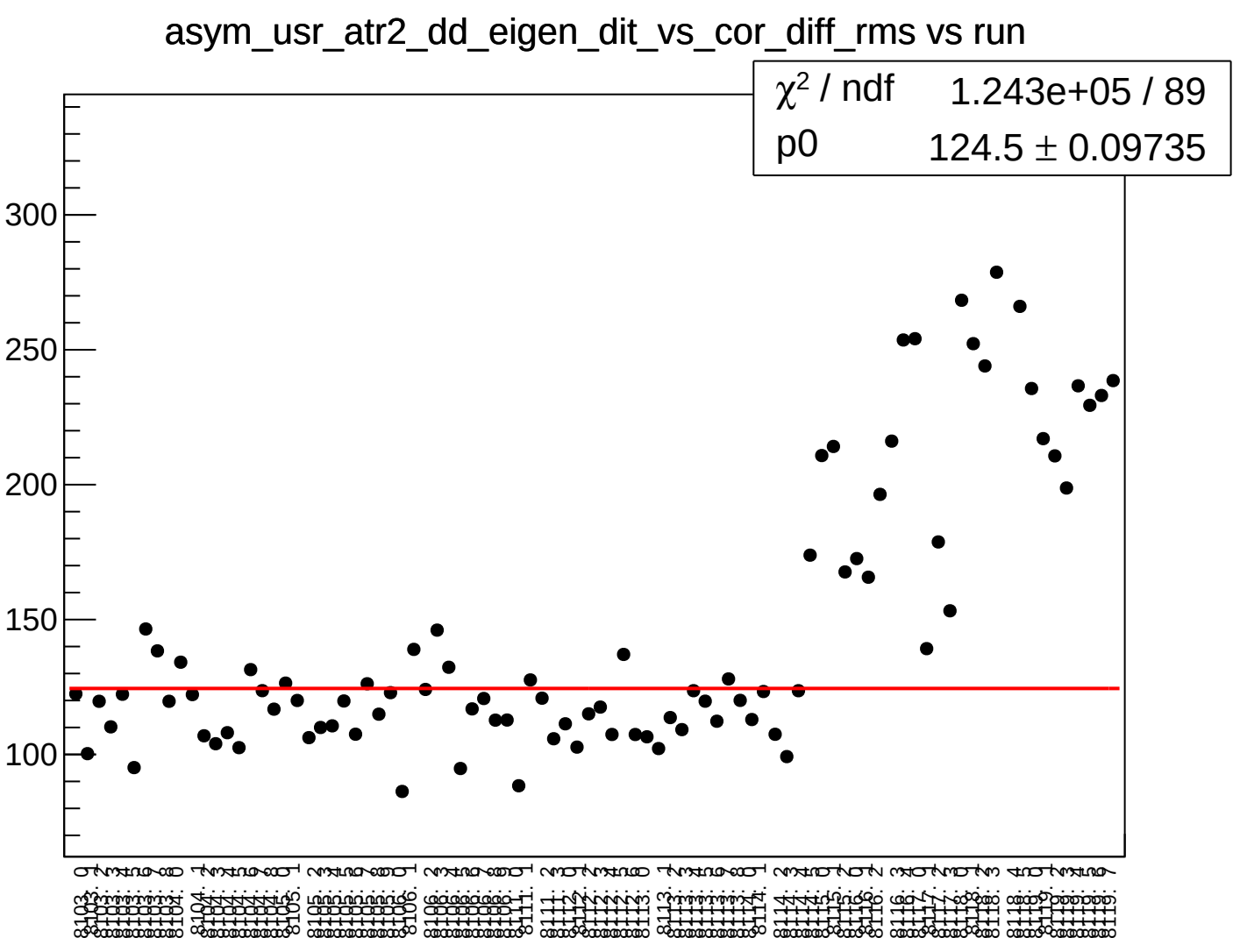

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.5 / 89
p0 2.674e−05 ± 8.634e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 90
Mean 731.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

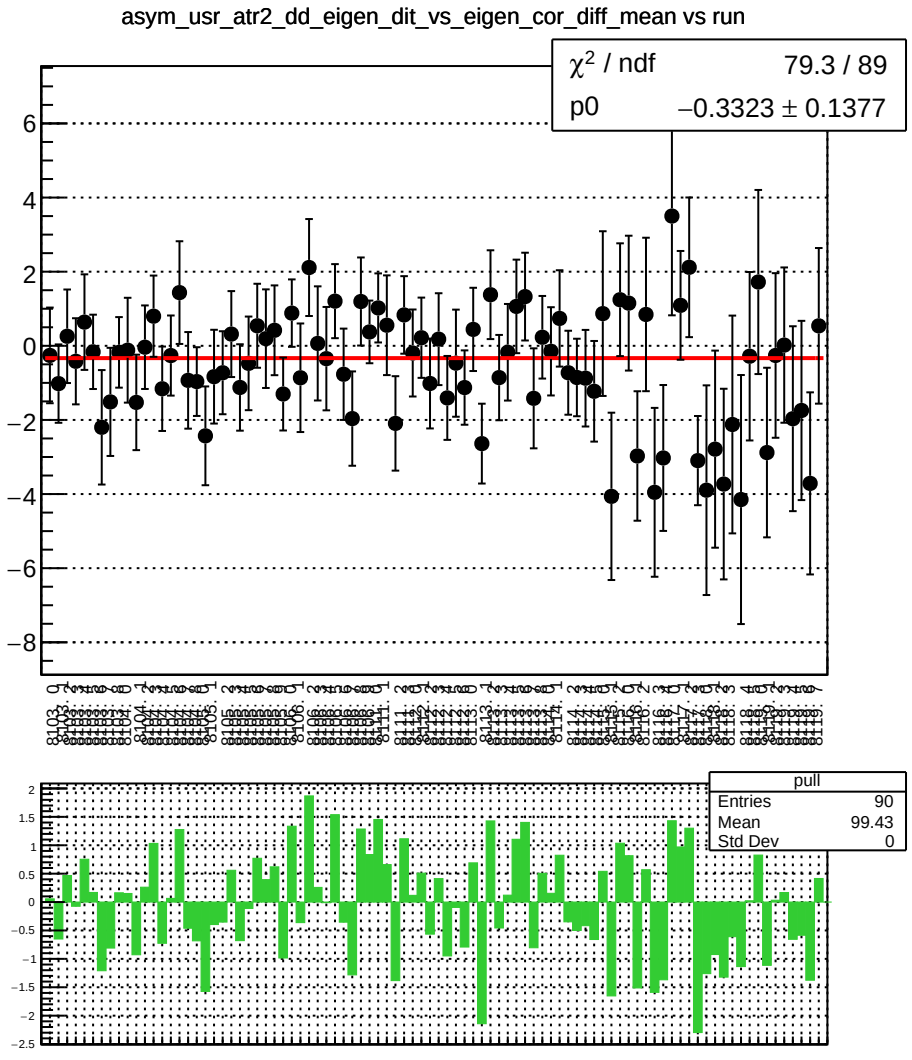

pull1D
Entries 90
Mean −0.004957
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

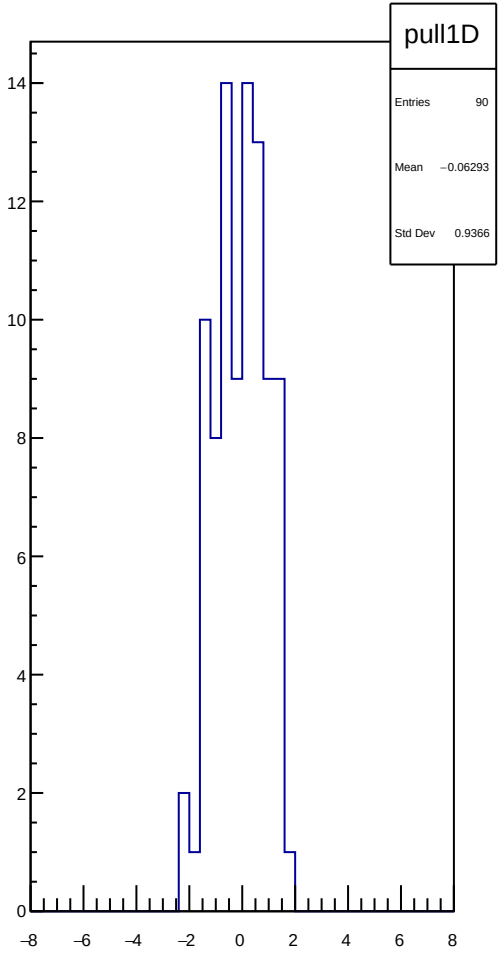

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 888.6 / 89
p0 0.008094 ± 6.105e−06
0.0086
0.0084
0.0082
0.008
0.0078
0.0076

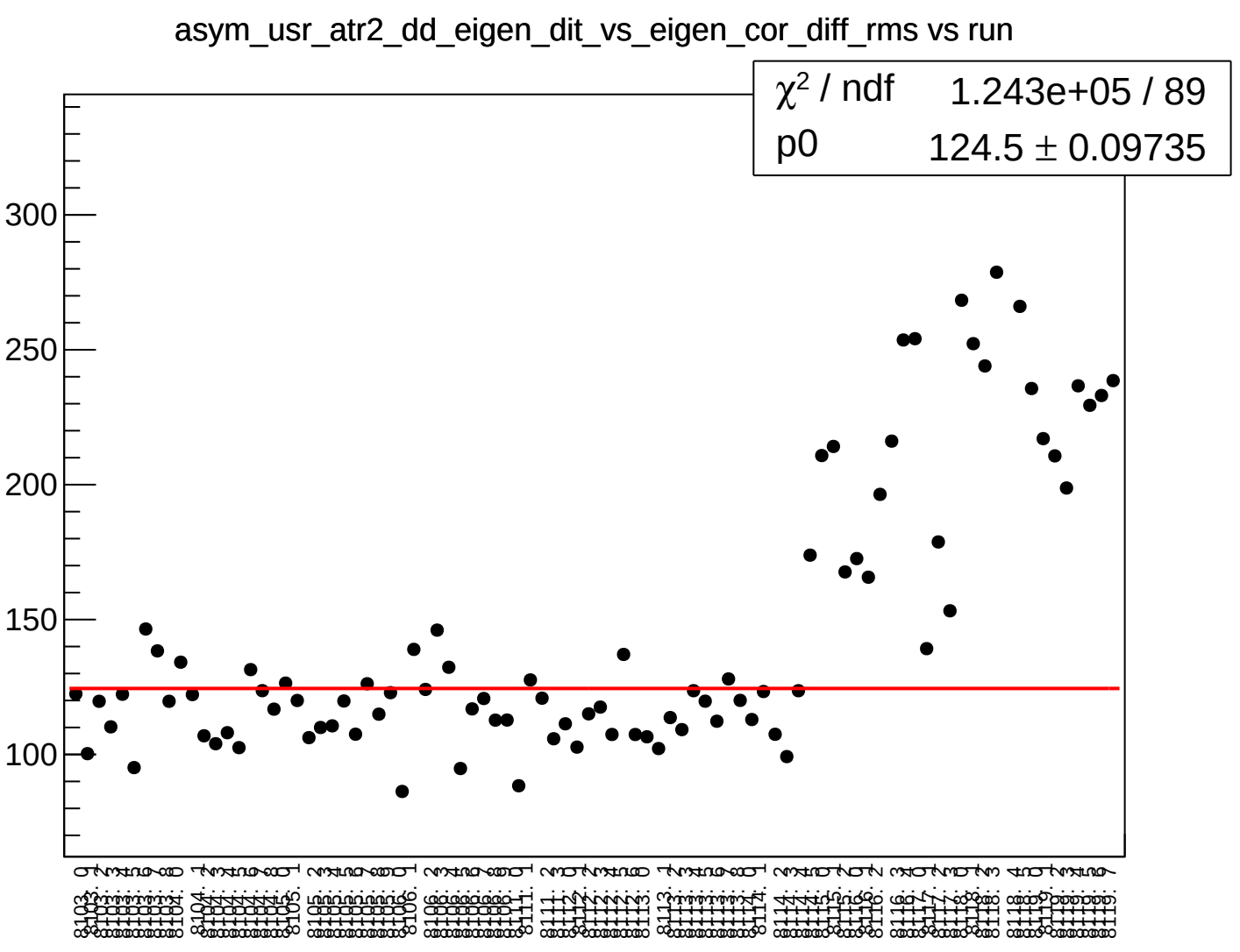

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.3 / 89
p0 −0.3323 ± 0.1377
pull
Entries 90
Mean 99.43
Std Dev 0

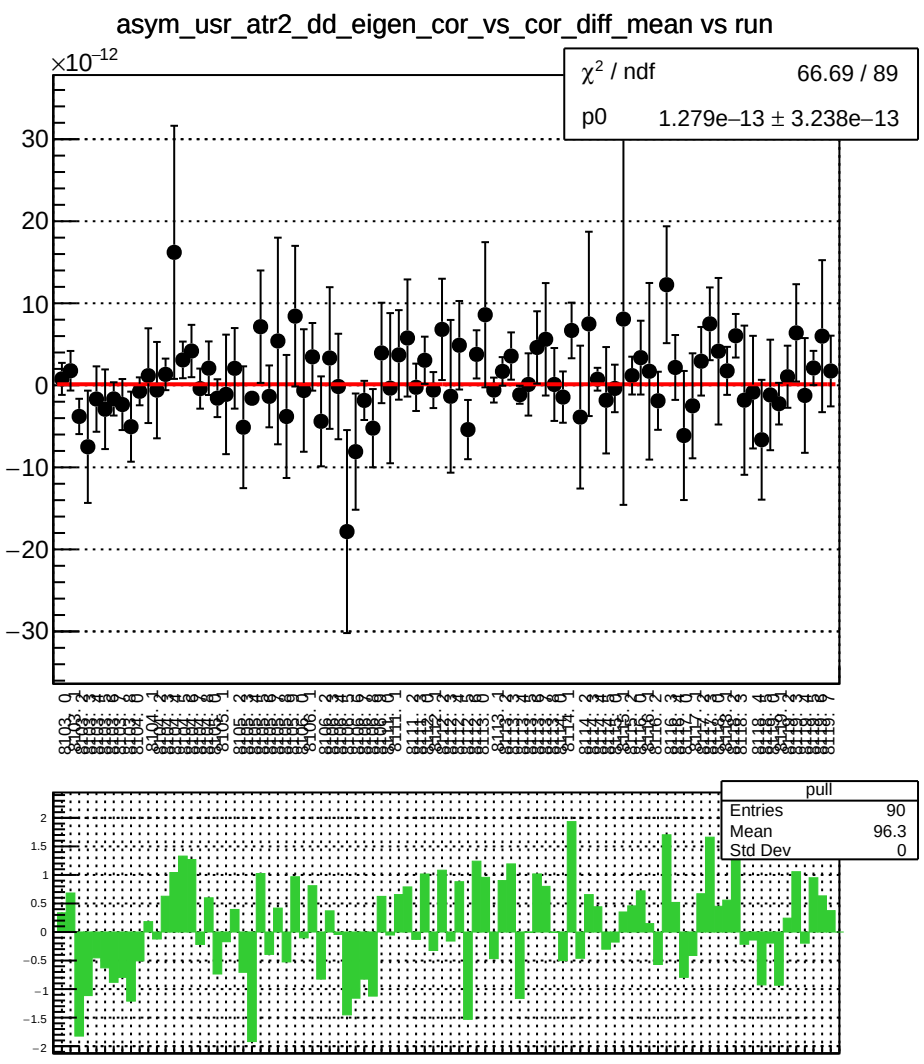

pull1D
Entries 90
Mean −0.06293
Std Dev 0.9366

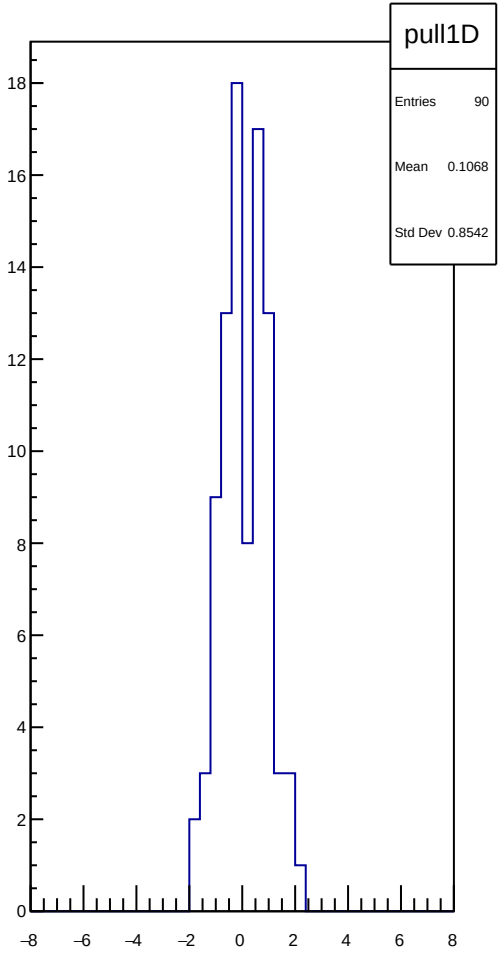

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+05 / 89
p0 124.5 ± 0.09735
300
250
200
150
100

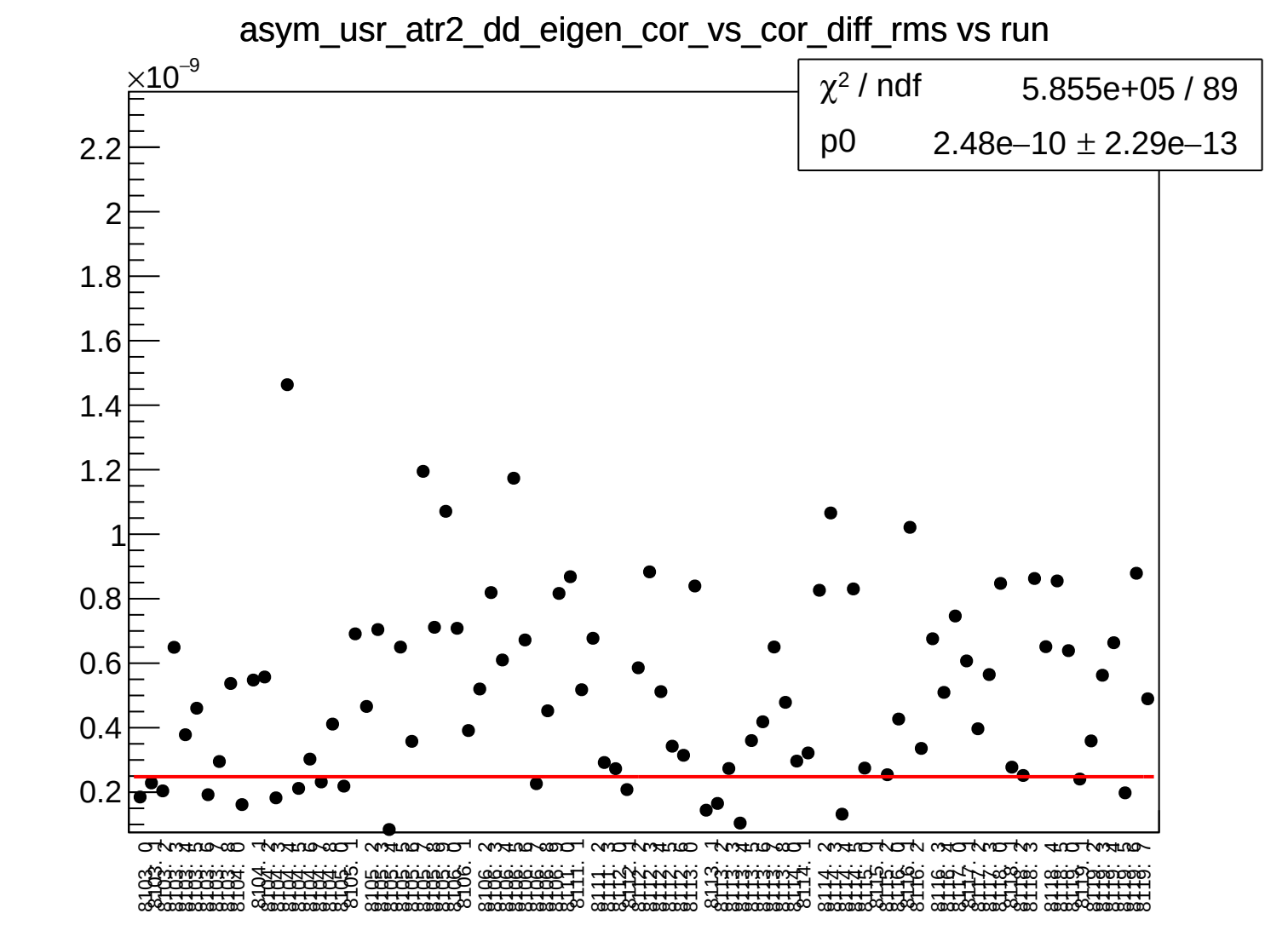

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.3 / 89
p0 −0.3323 ± 0.1377
pull
Entries 90
Mean 99.43
Std Dev 0

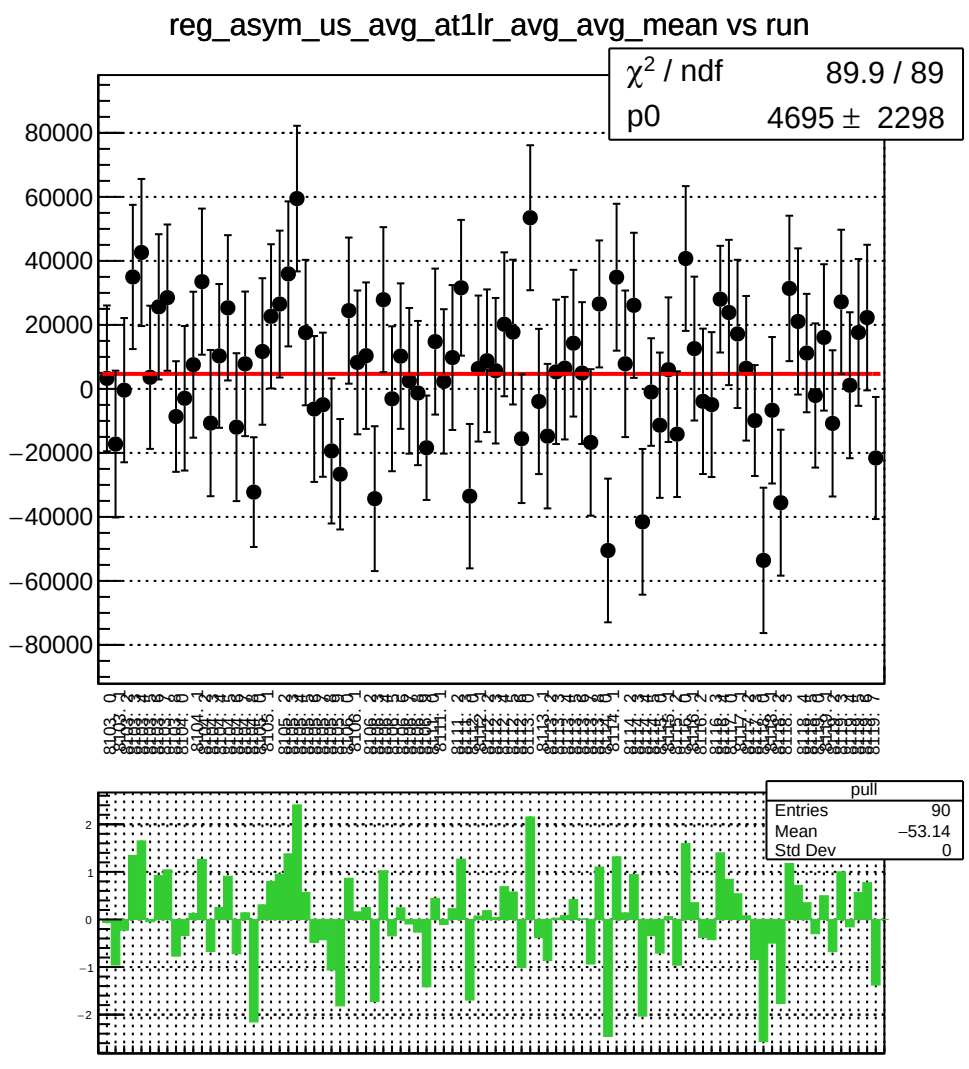

pull1D
Entries 90
Mean −0.06293
Std Dev 0.9366

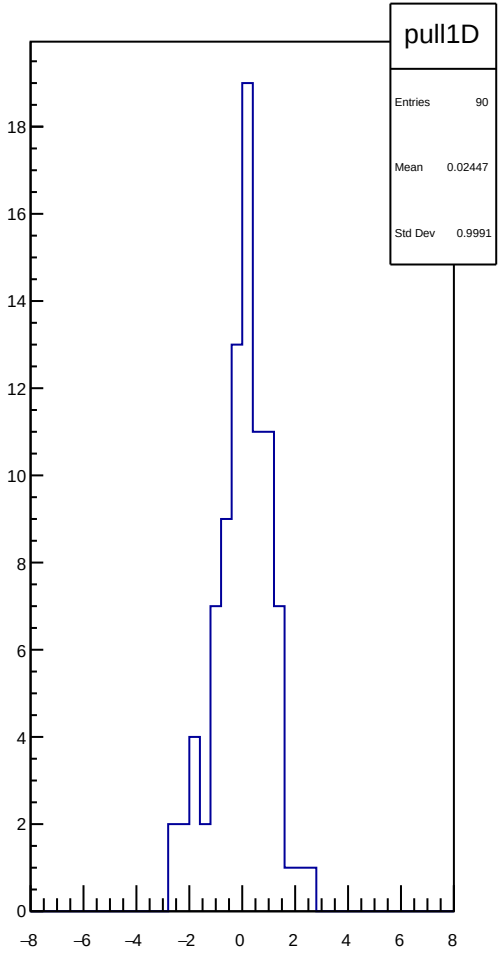

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+05 / 89
p0 124.5 ± 0.09735
300
250
200
150
100

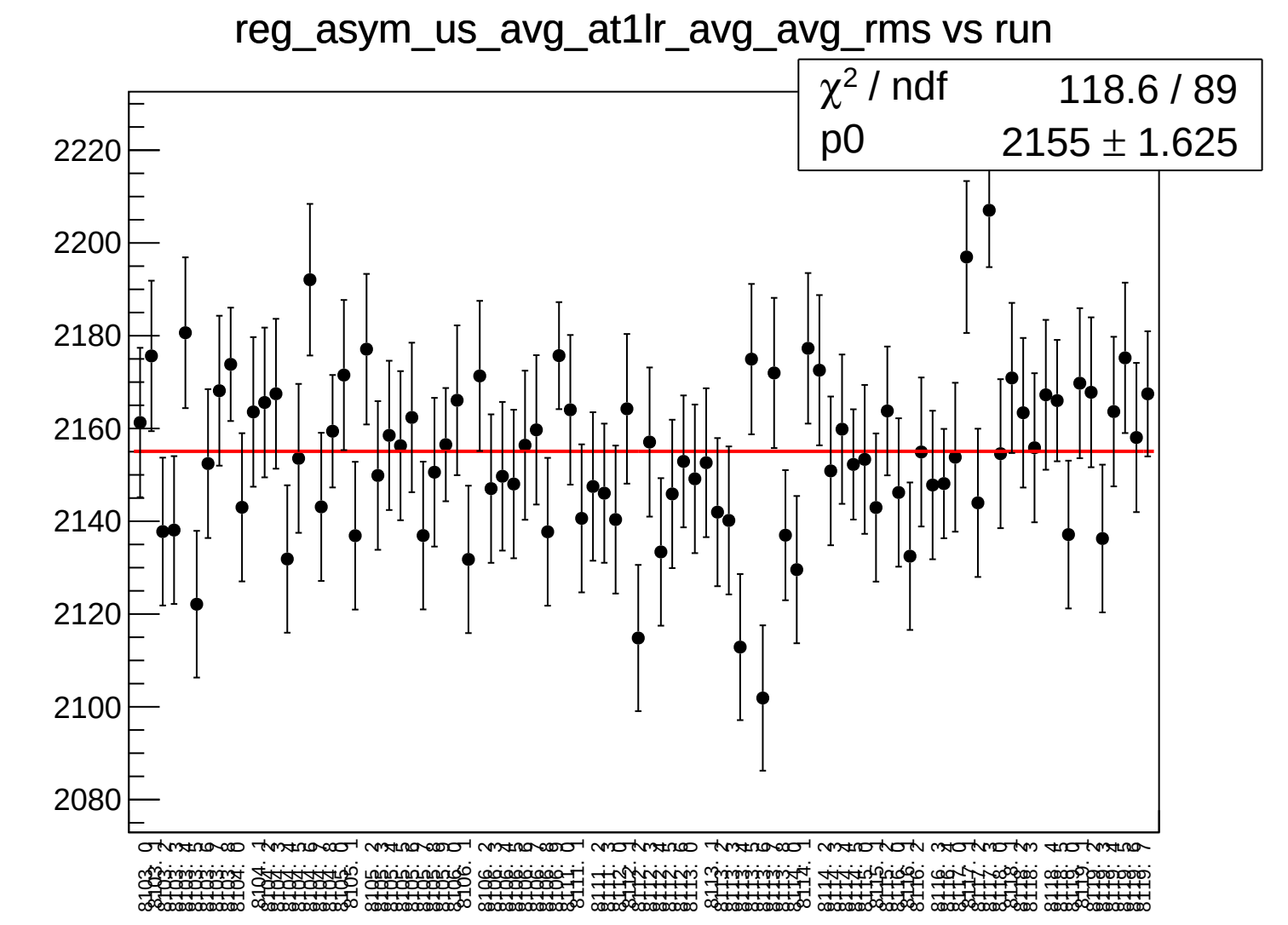

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 66.69 / 89
p0 1.279e−13 ± 3.238e−13
pull
Entries 90
Mean 96.3
Std Dev 0

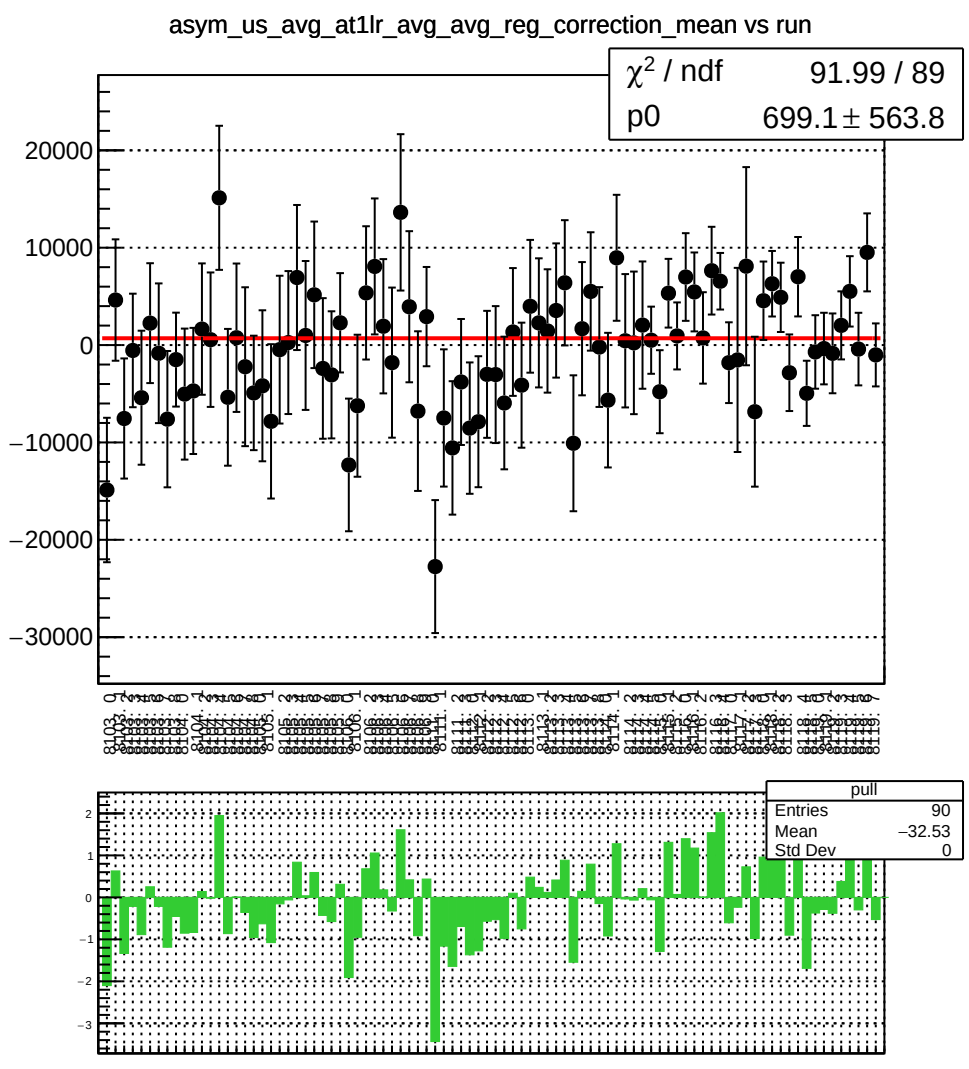

pull1D
Entries 90
Mean 0.1068
Std Dev 0.8542

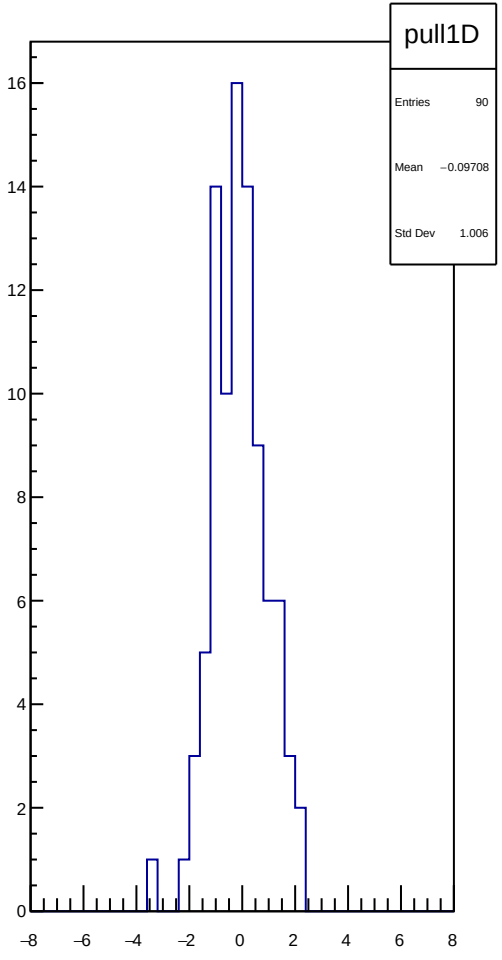

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.855e+05 / 89
p0 2.48e−10 ± 2.29e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

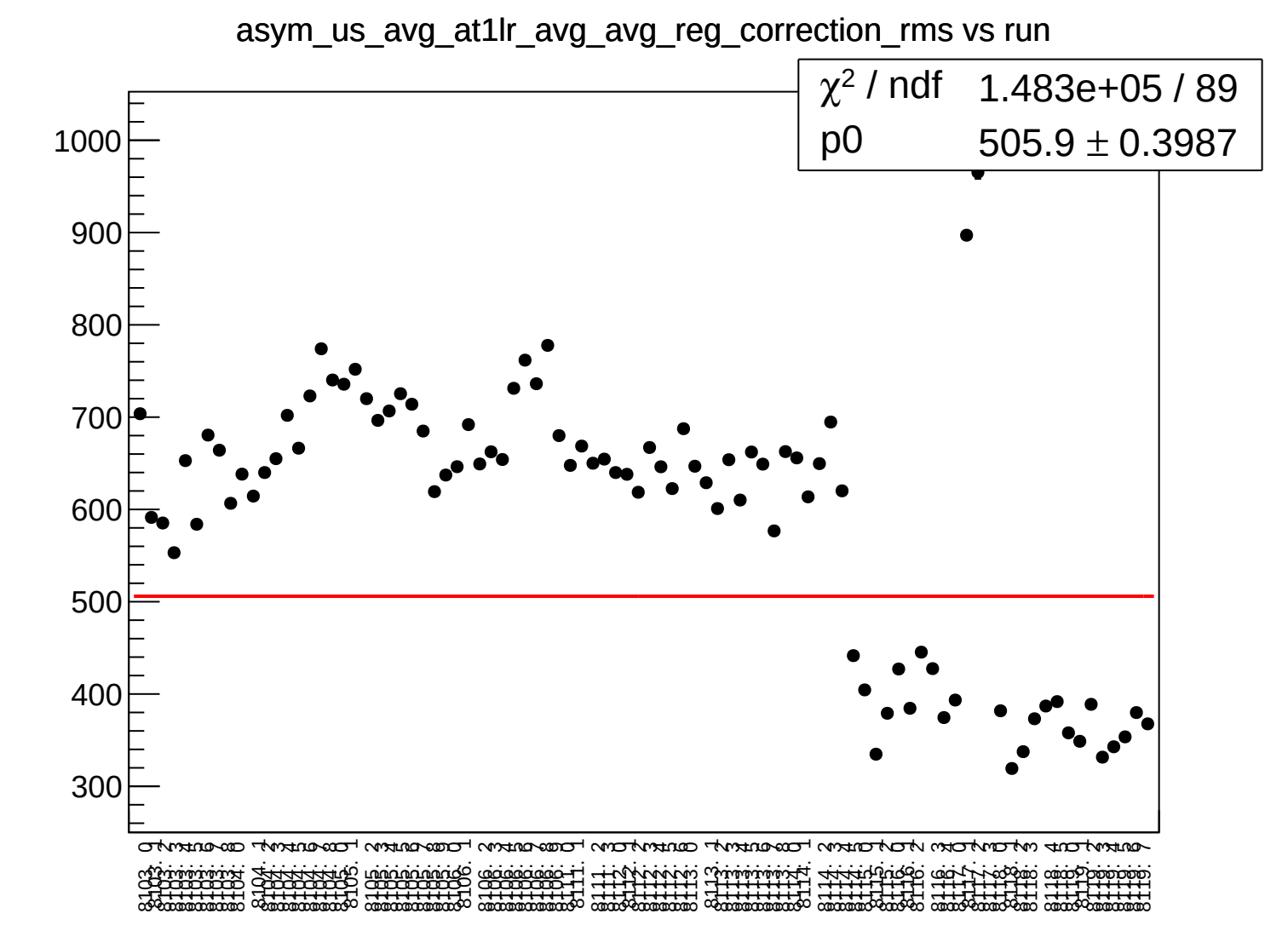

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 89.9 / 89
p0 4695 ± 2298
pull
Entries 90
Mean −53.14
Std Dev 0

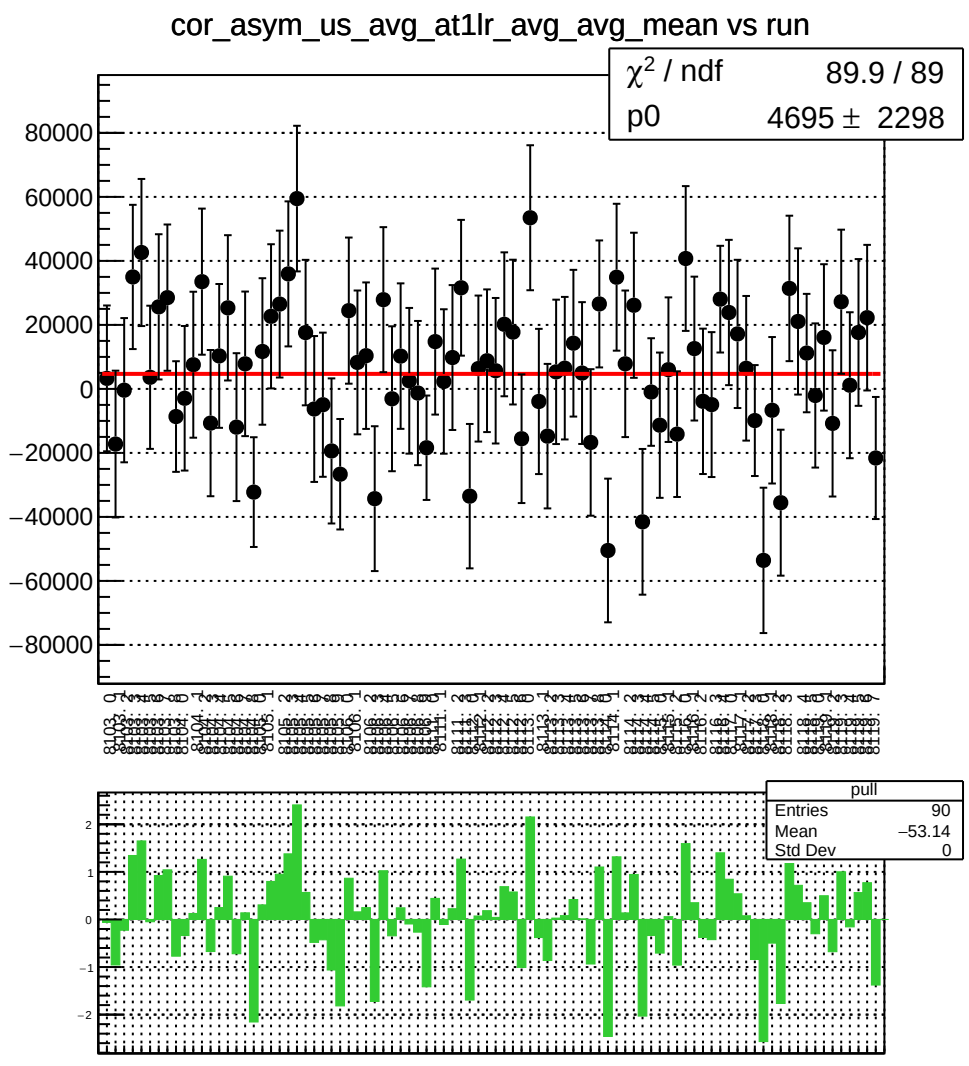

pull1D
Entries 90
Mean 0.02447
Std Dev 0.9991

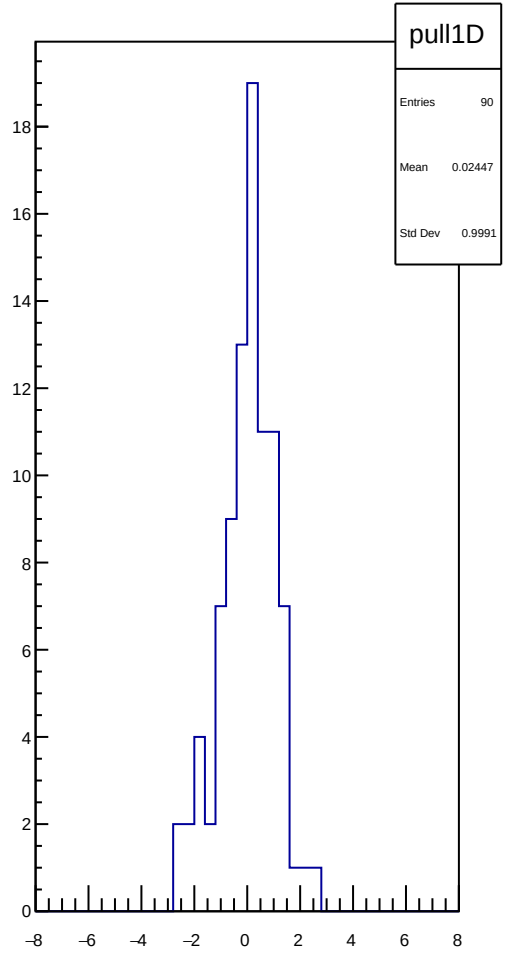

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 118.6 / 89
p0 2155 ± 1.625
2220
2200
2180
2160
2140
2120
2100
2080

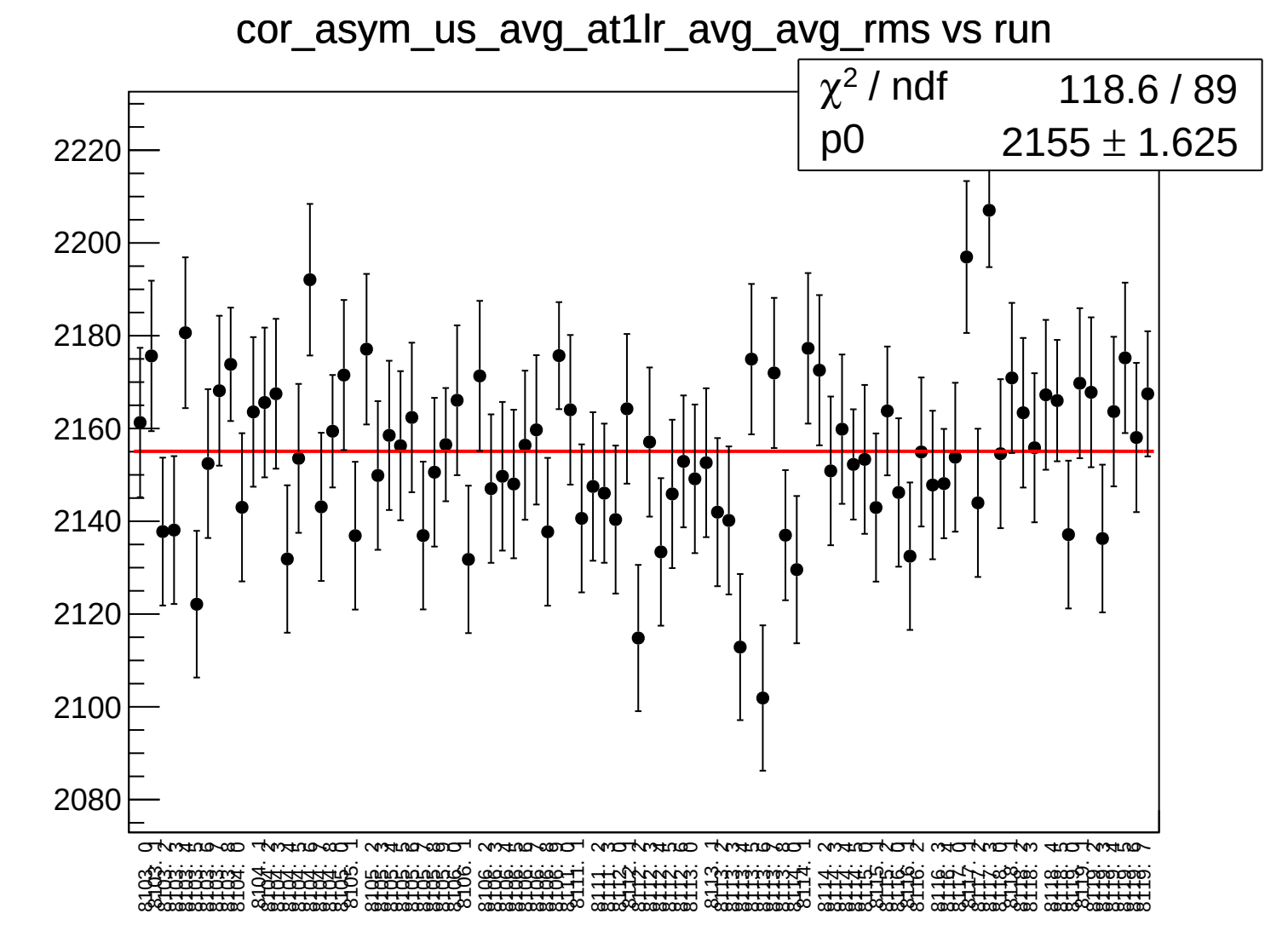

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 91.99 / 89
p0 699.1 ± 563.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −32.53
Std Dev 0
2
1
0
−1
−2
−3

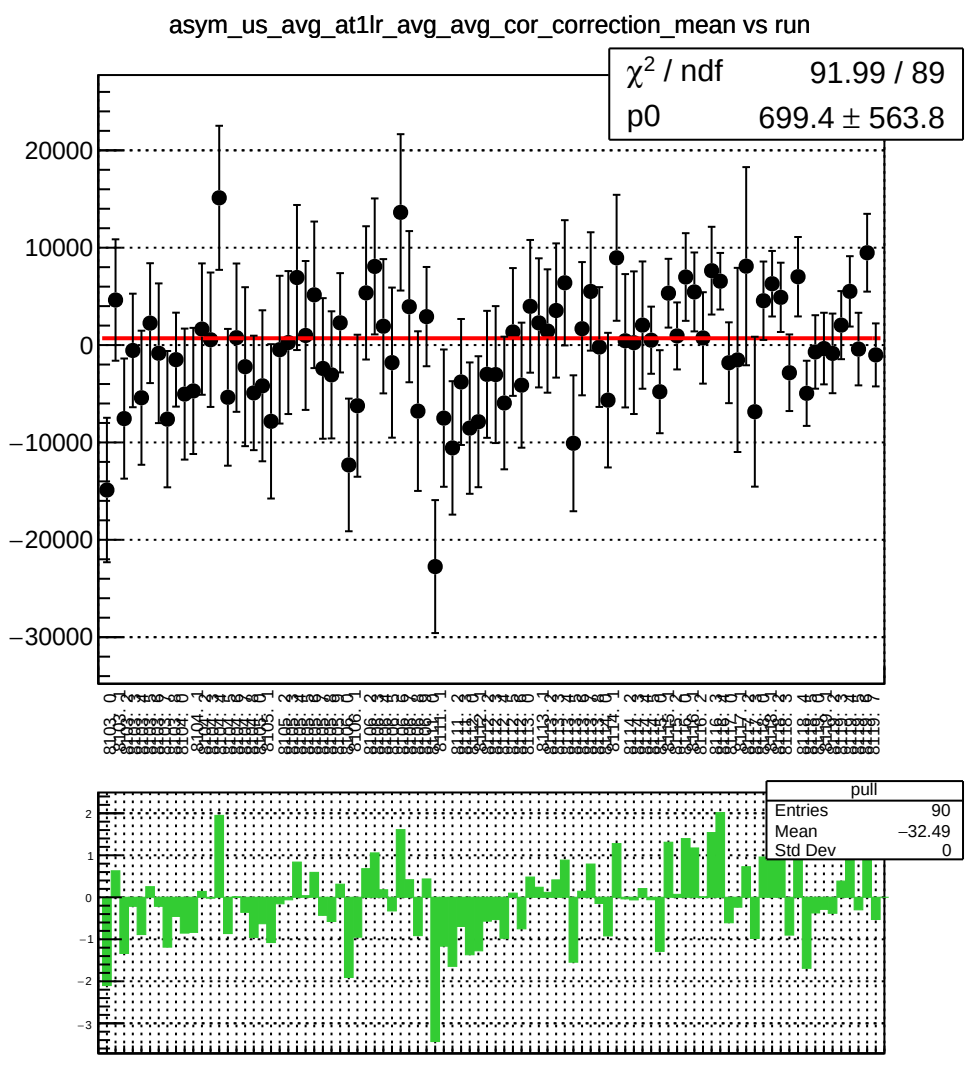

pull1D
Entries 90
Mean −0.09708
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

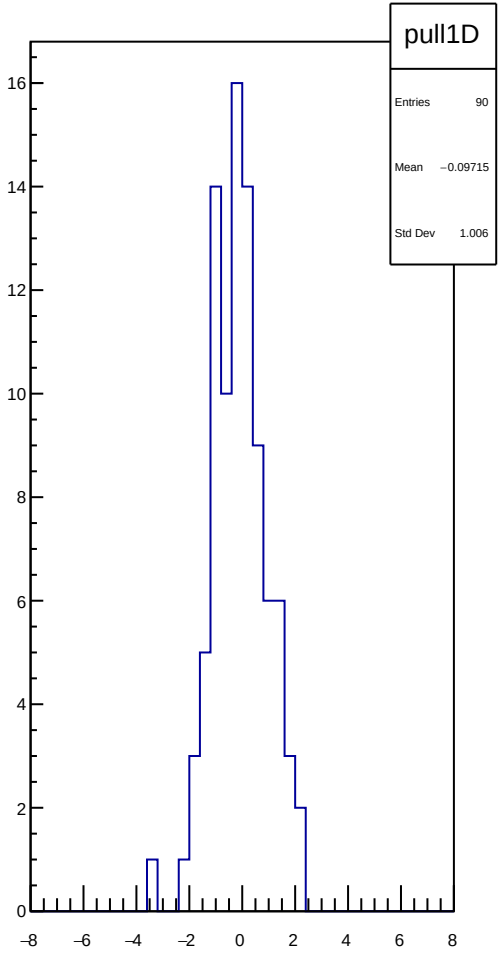

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.483e+05 / 89
p0 505.9 ± 0.3987
1000
900
800
700
600
500
400
300

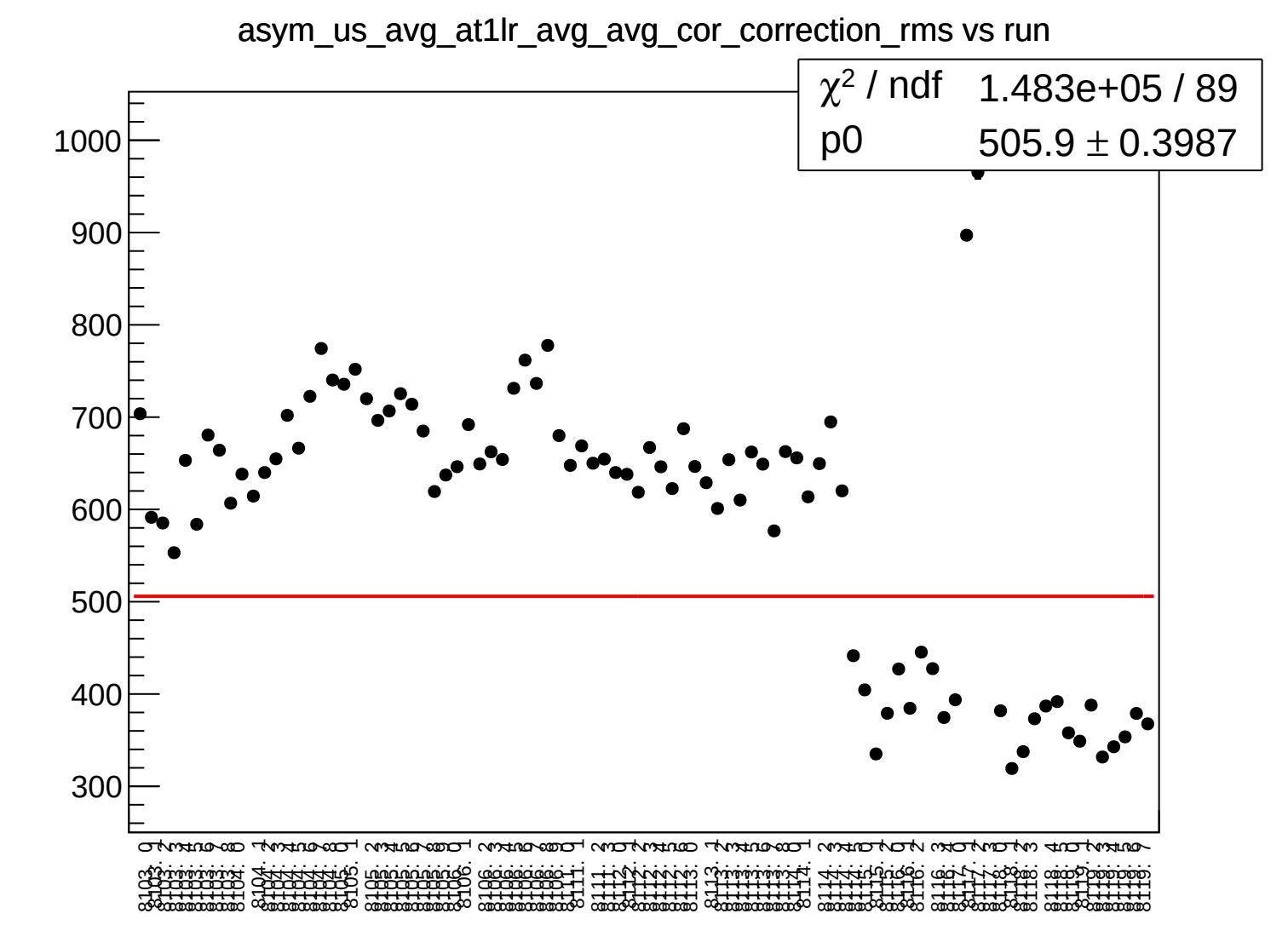

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 89.9 / 89
p0 4695 ± 2298
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −53.14
Std Dev 0
2
1
0
−1
−2

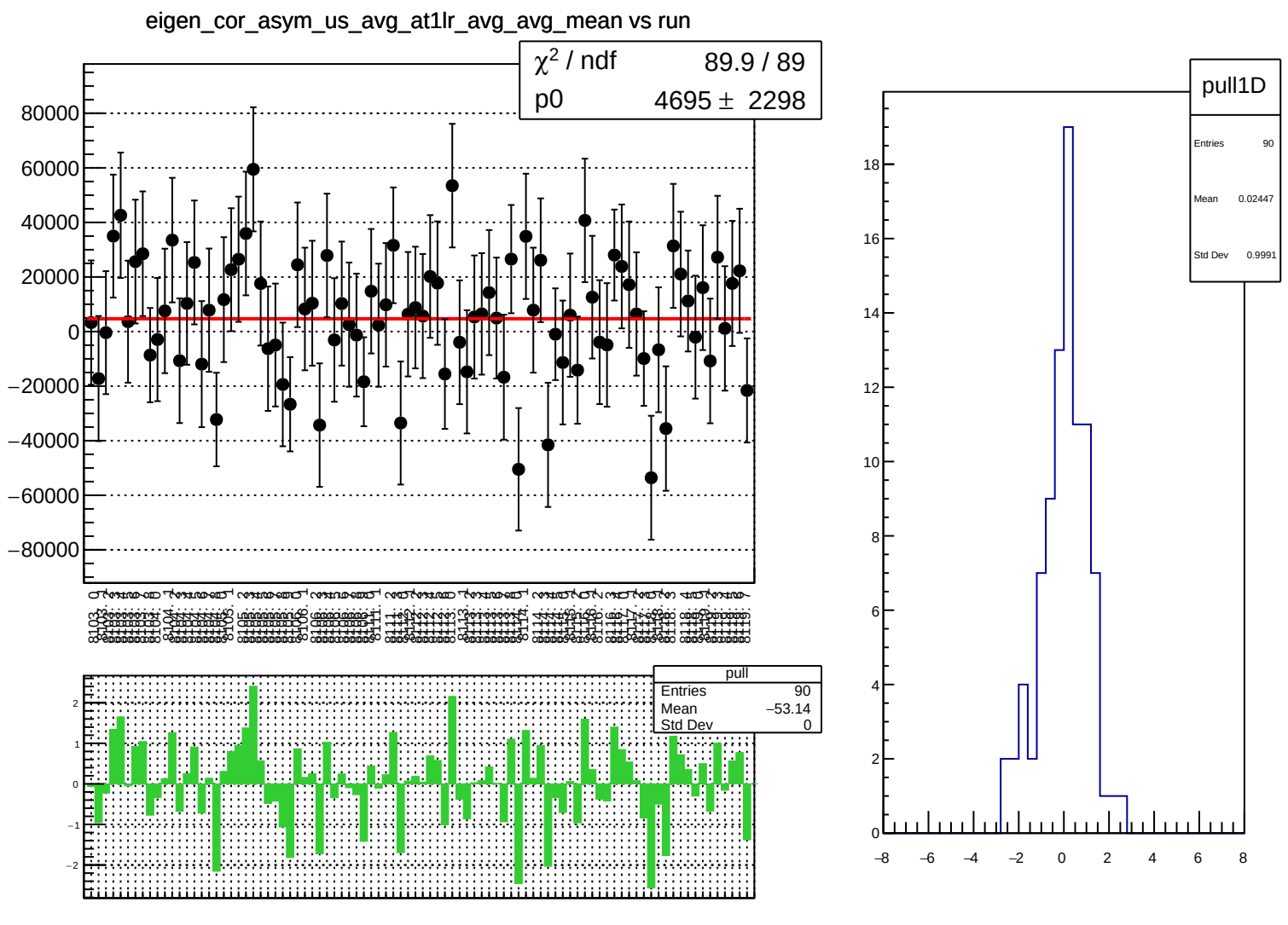

pull1D
Entries 90
Mean 0.02447
Std Dev 0.9991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

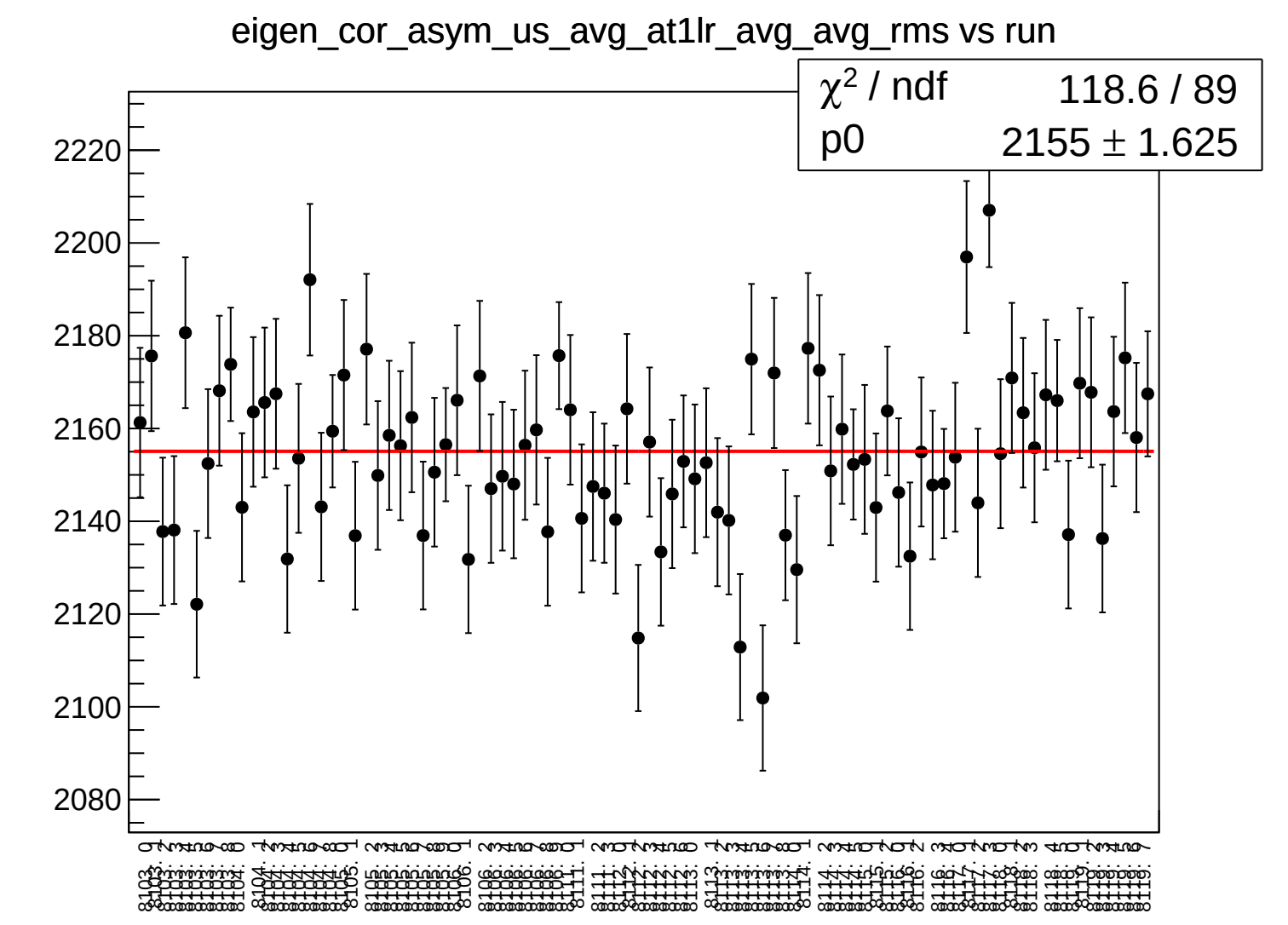

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 118.6 / 89
p0 2155 ± 1.625
2220
2200
2180
2160
2140
2120
2100
2080

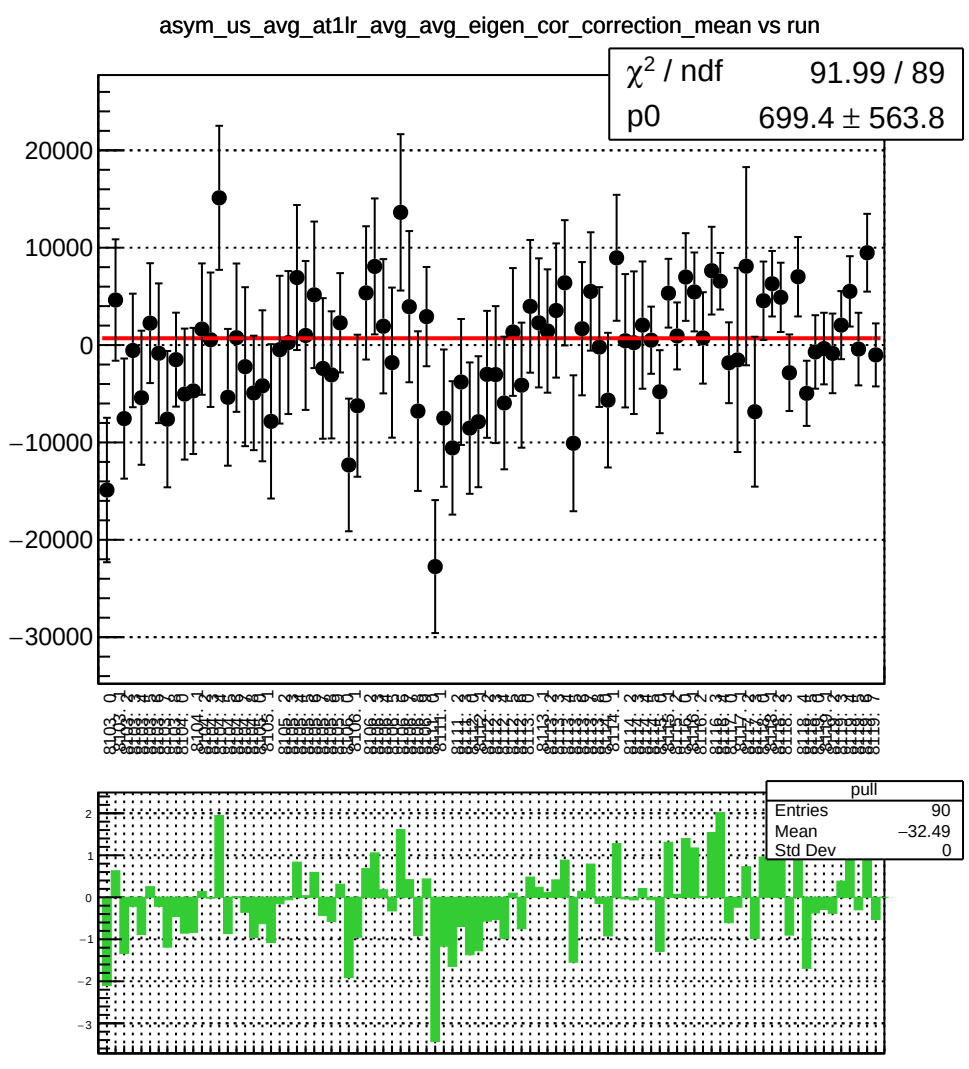

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 91.99 / 89
p0 699.4 ± 563.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −32.49
Std Dev 0
2
1
0
−1
−2
−3

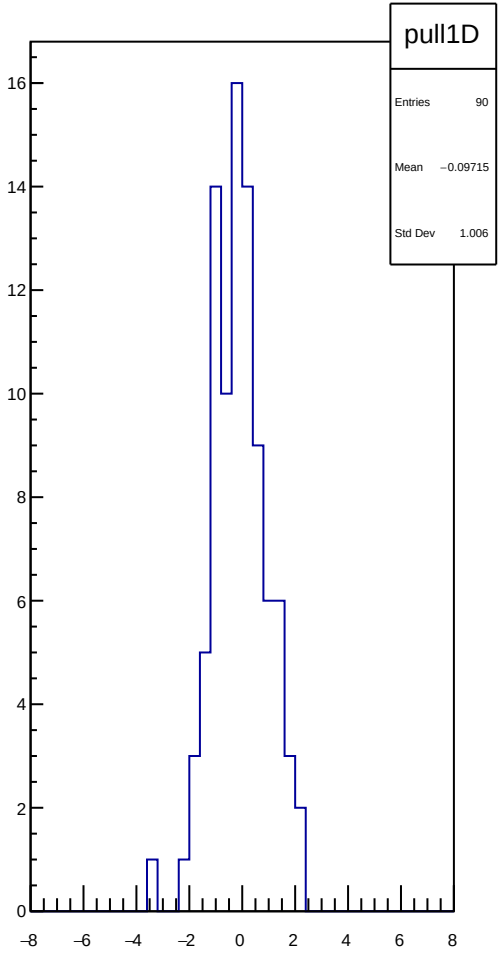

pull1D
Entries 90
Mean −0.09715
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

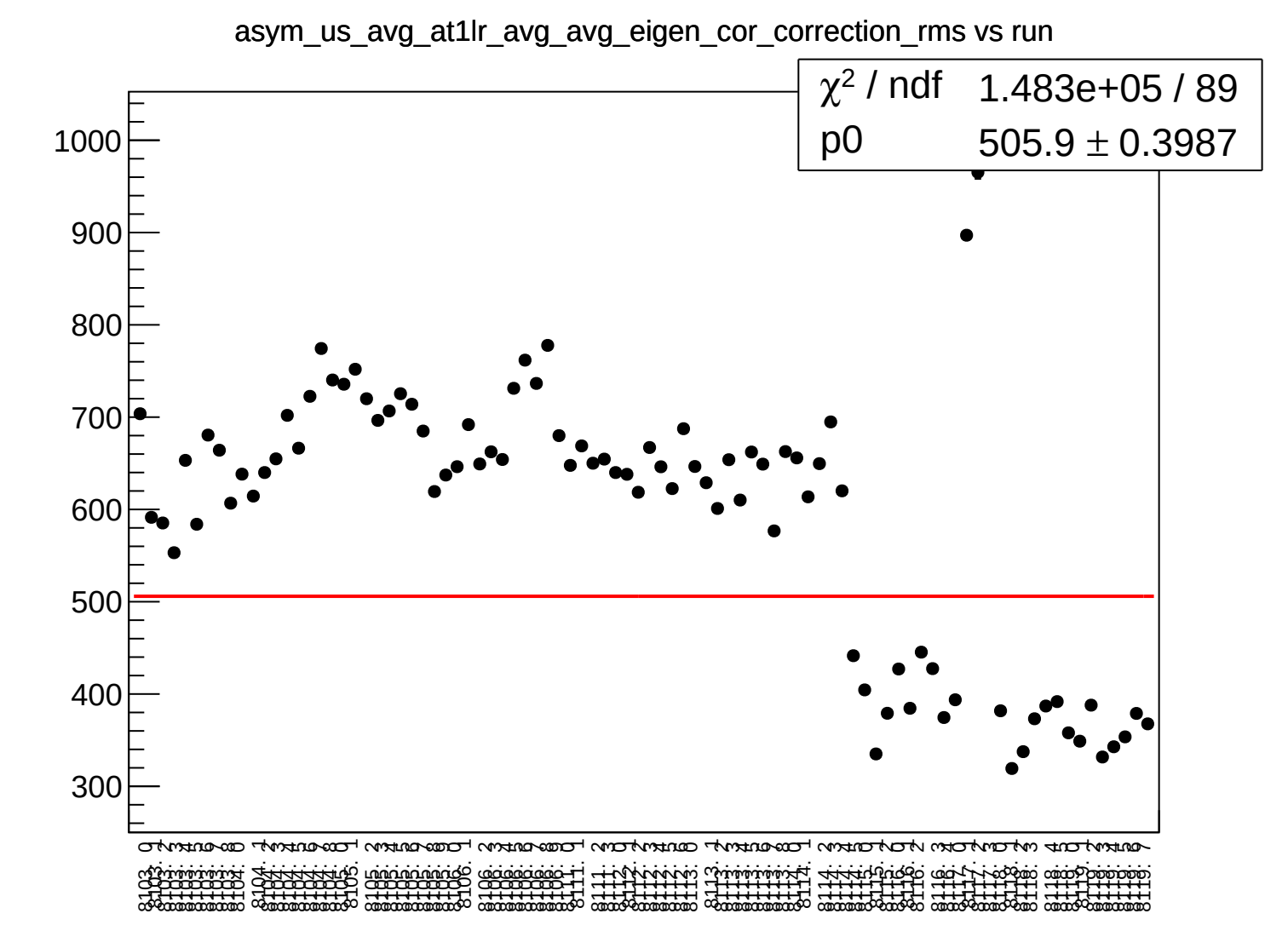

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.483e+05 / 89
p0 505.9 ± 0.3987
1000
900
800
700
600
500
400
300

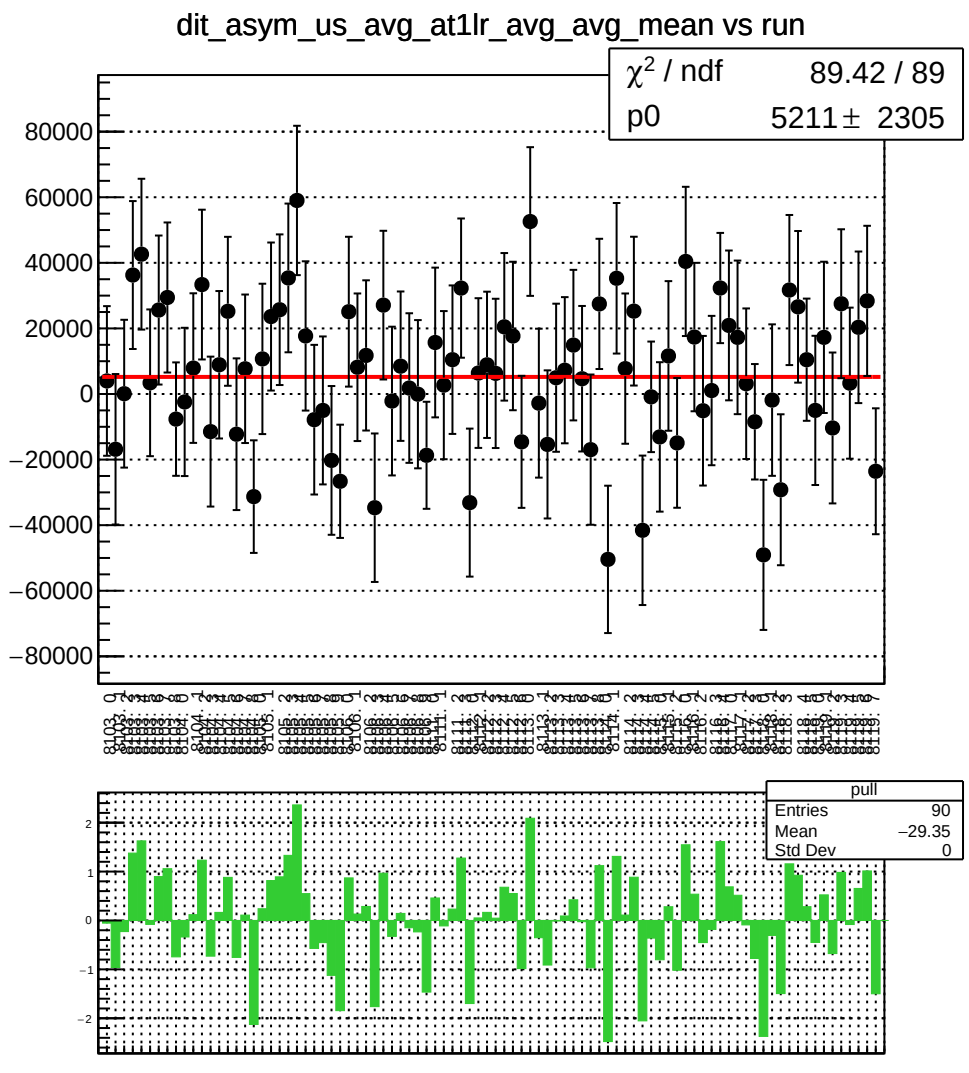

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 89.9 / 89
p0 4695 ± 2298
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −53.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.02447
Std Dev 0.9991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

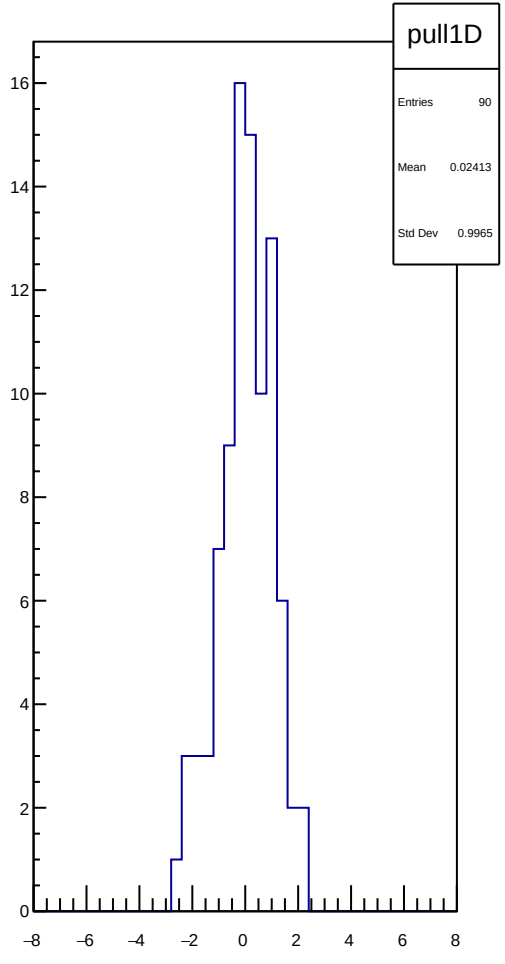

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 118.6 / 89
p0 2155 ± 1.625
2220
2200
2180
2160
2140
2120
2100
2080

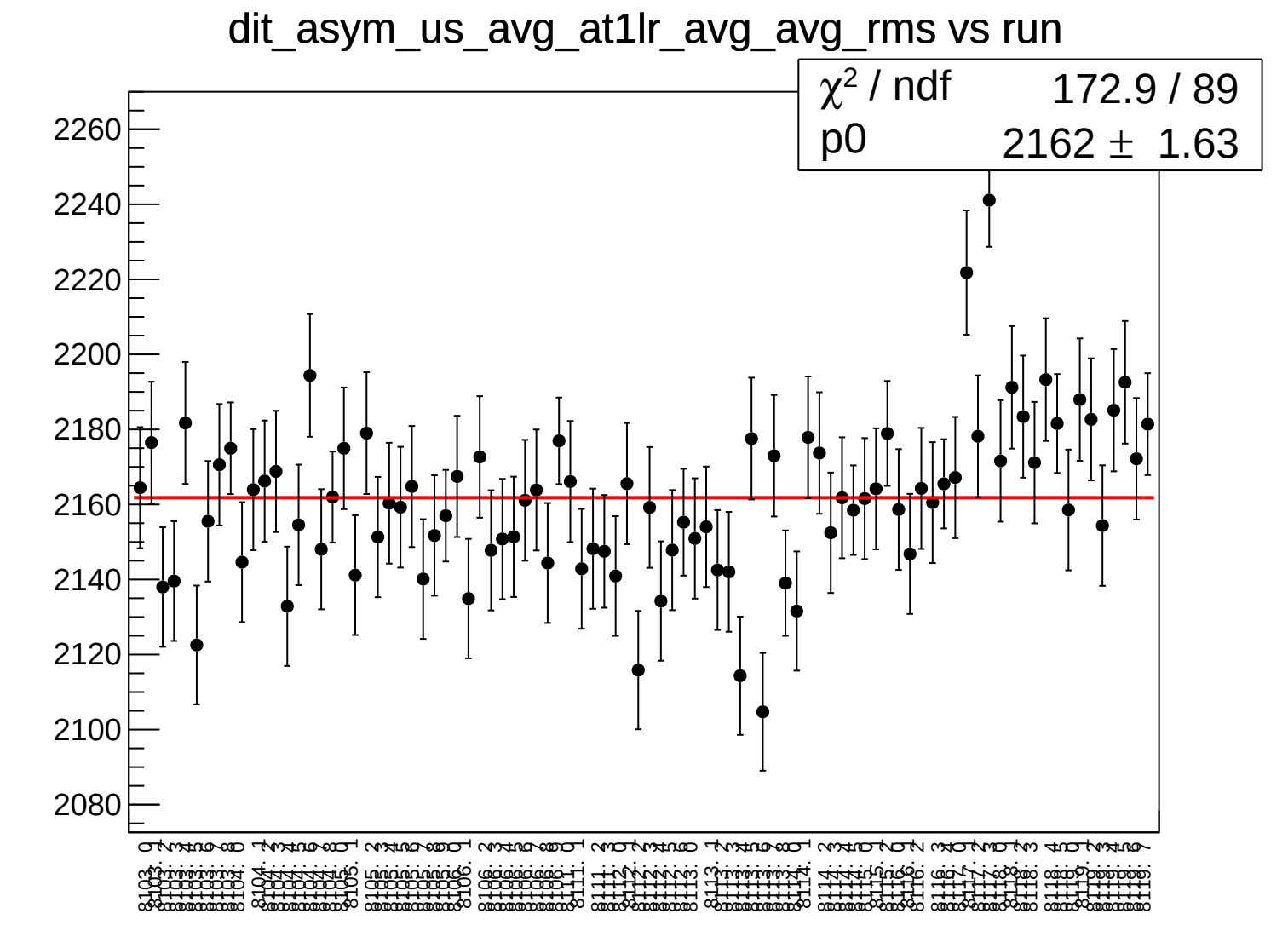

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.99 / 89
p0 699.4 ± 563.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −32.49
Std Dev 0
2
1
0
−1
−2
−3

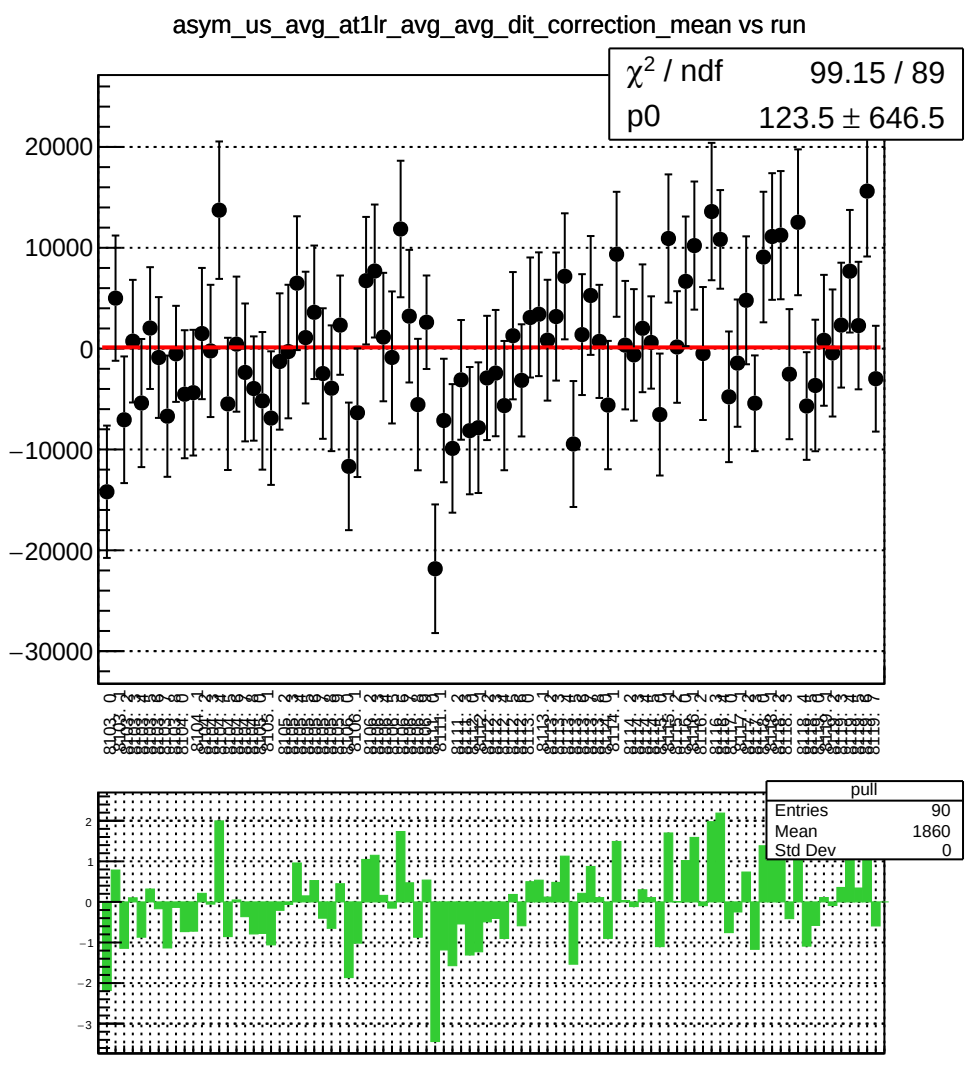

pull1D
Entries 90
Mean −0.09715
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

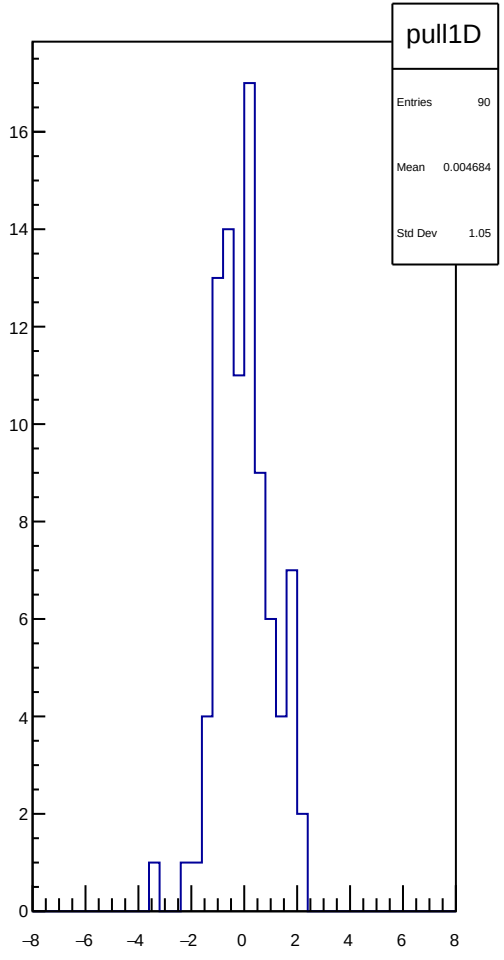

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.483e+05 / 89
p0 505.9 ± 0.3987
1000
900
800
700
600
500
400
300

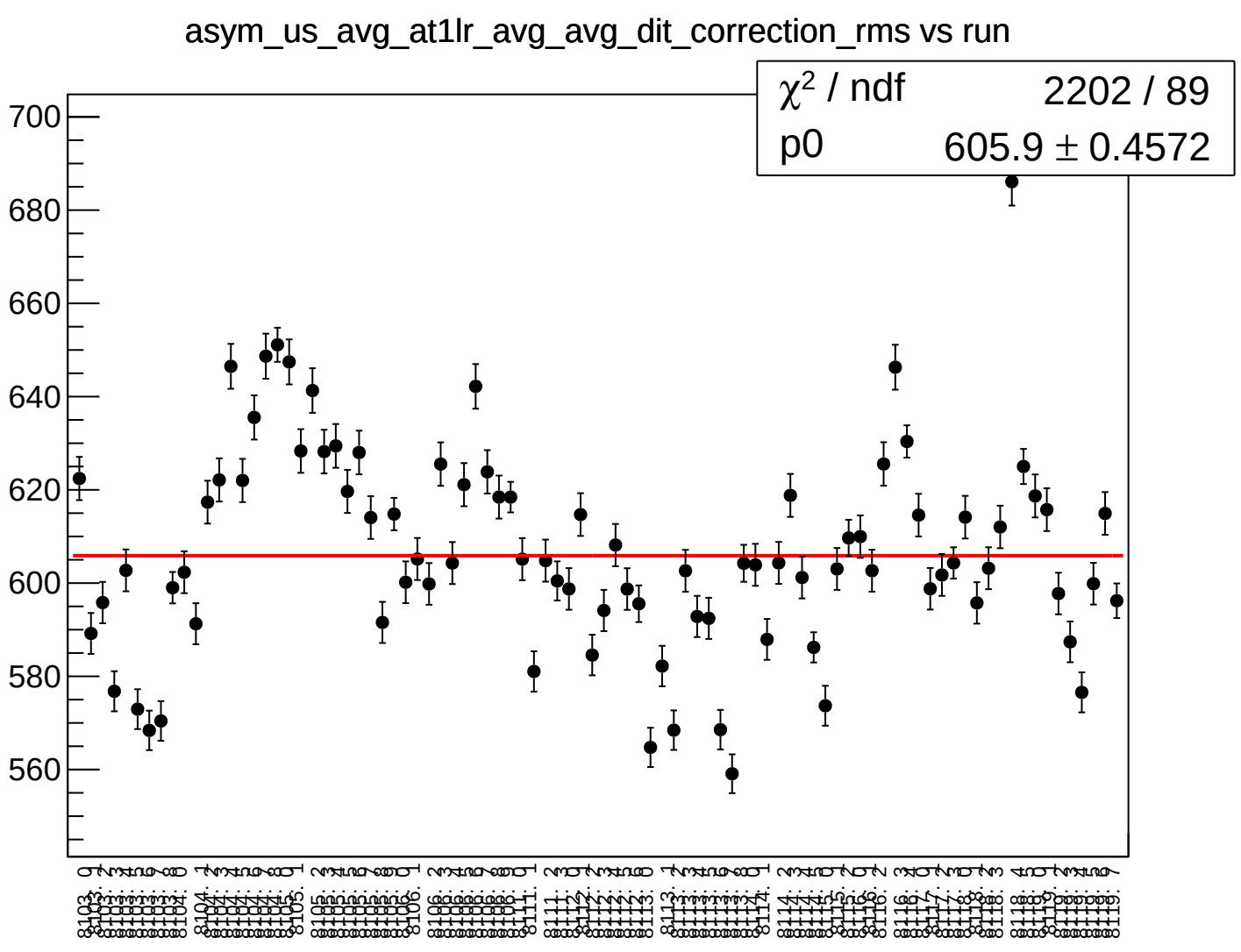

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 89.42 / 89
p0 5211 ± 2305
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −29.35
Std Dev 0
2
1
0
−1
−2

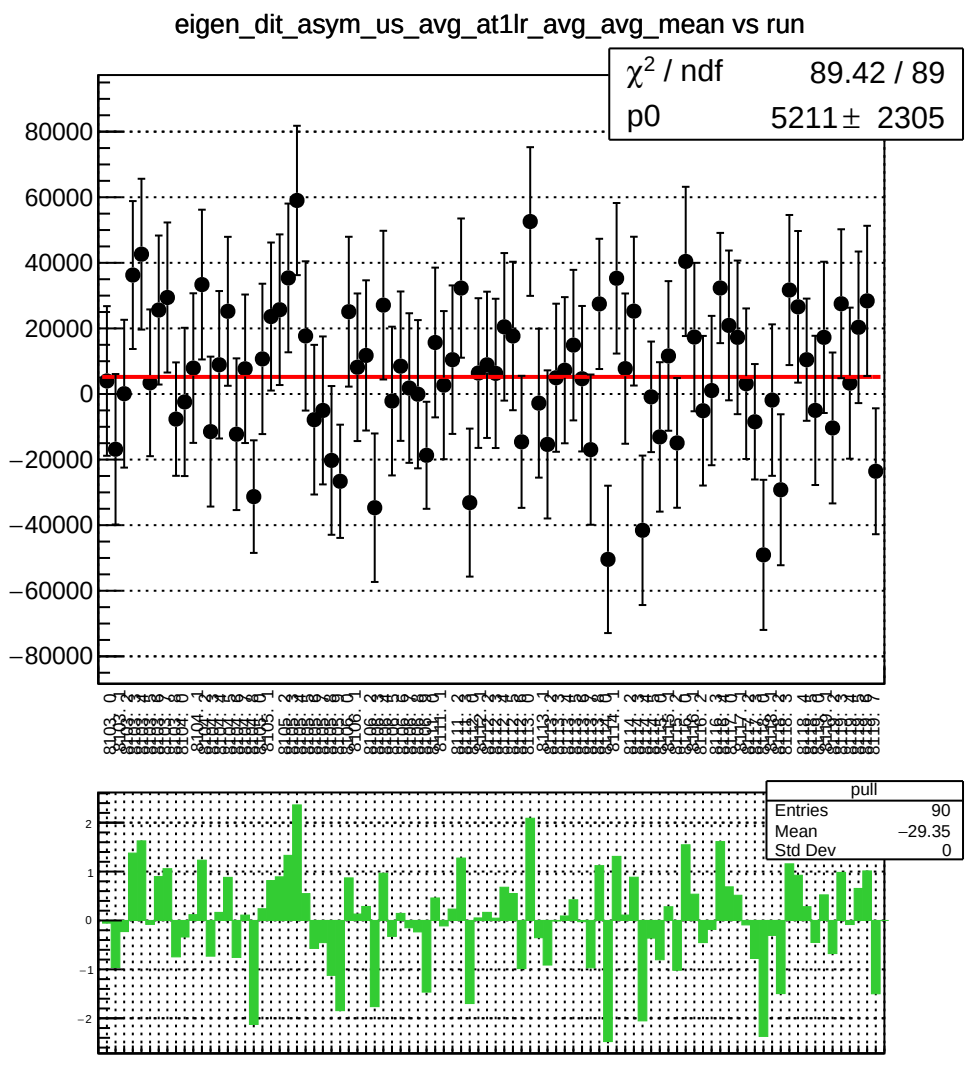

pull1D
Entries 90
Mean 0.02413
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

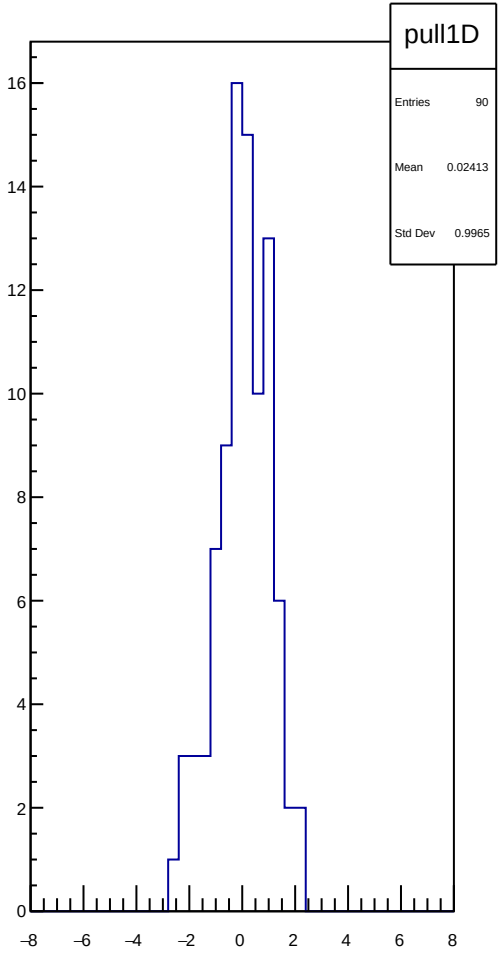

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 172.9 / 89
p0 2162 ± 1.63
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

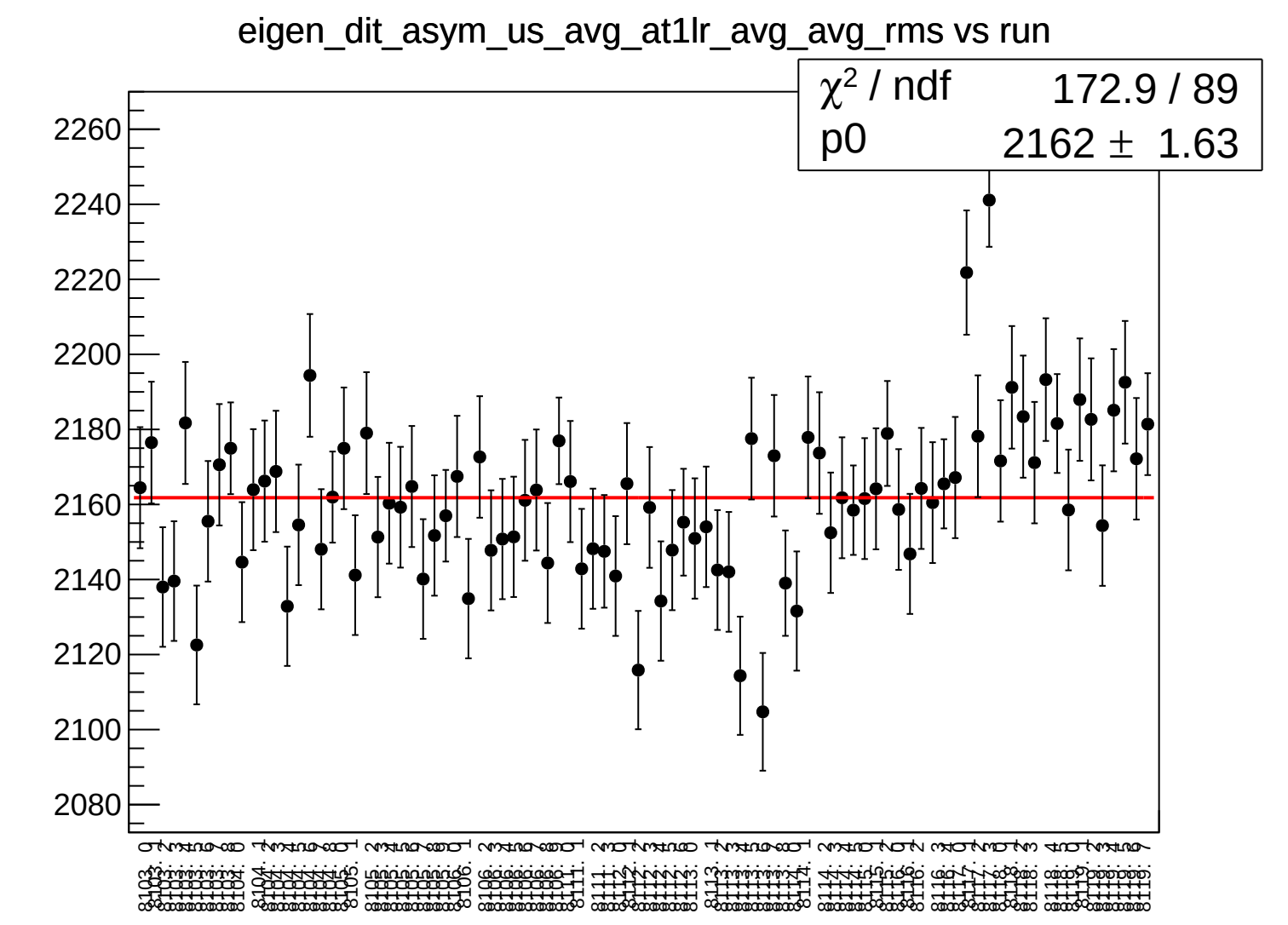

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 99.15 / 89
p0 123.5 ± 646.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1860
Std Dev 0
2
1
0
−1
−2
−3

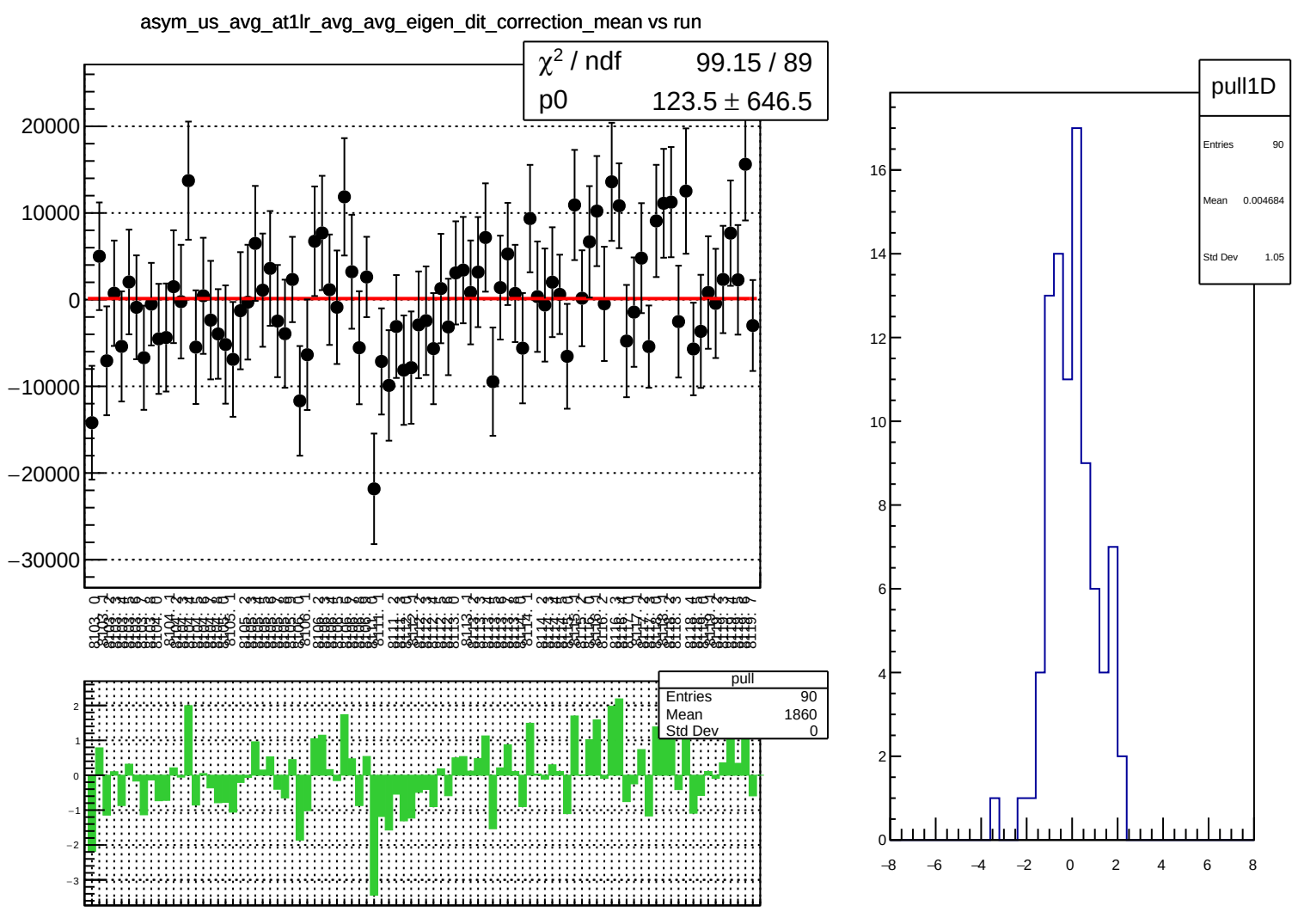

pull1D
Entries 90
Mean 0.004684
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

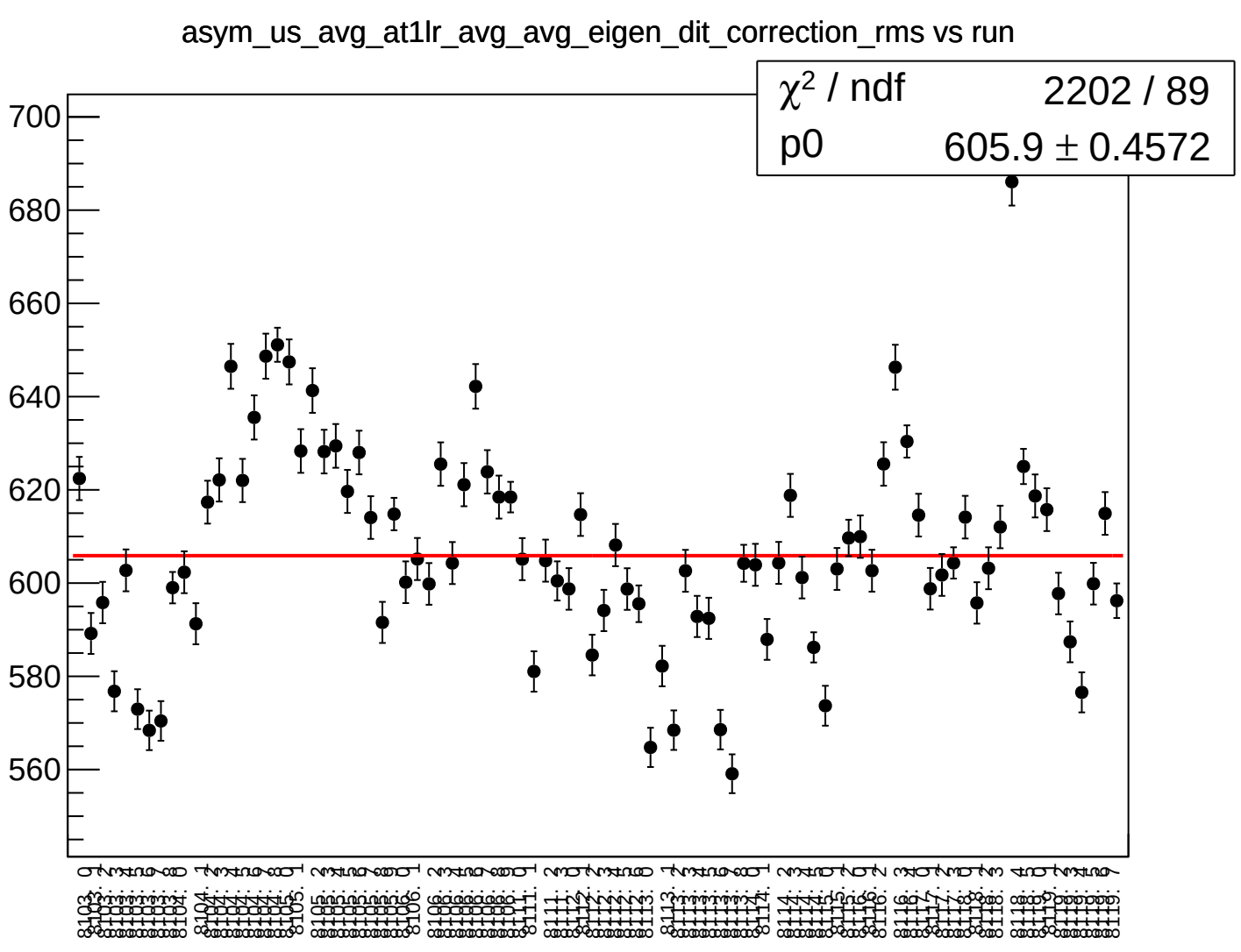

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2202 / 89
p0 605.9 ± 0.4572
700
680
660
640
620
600
580
560

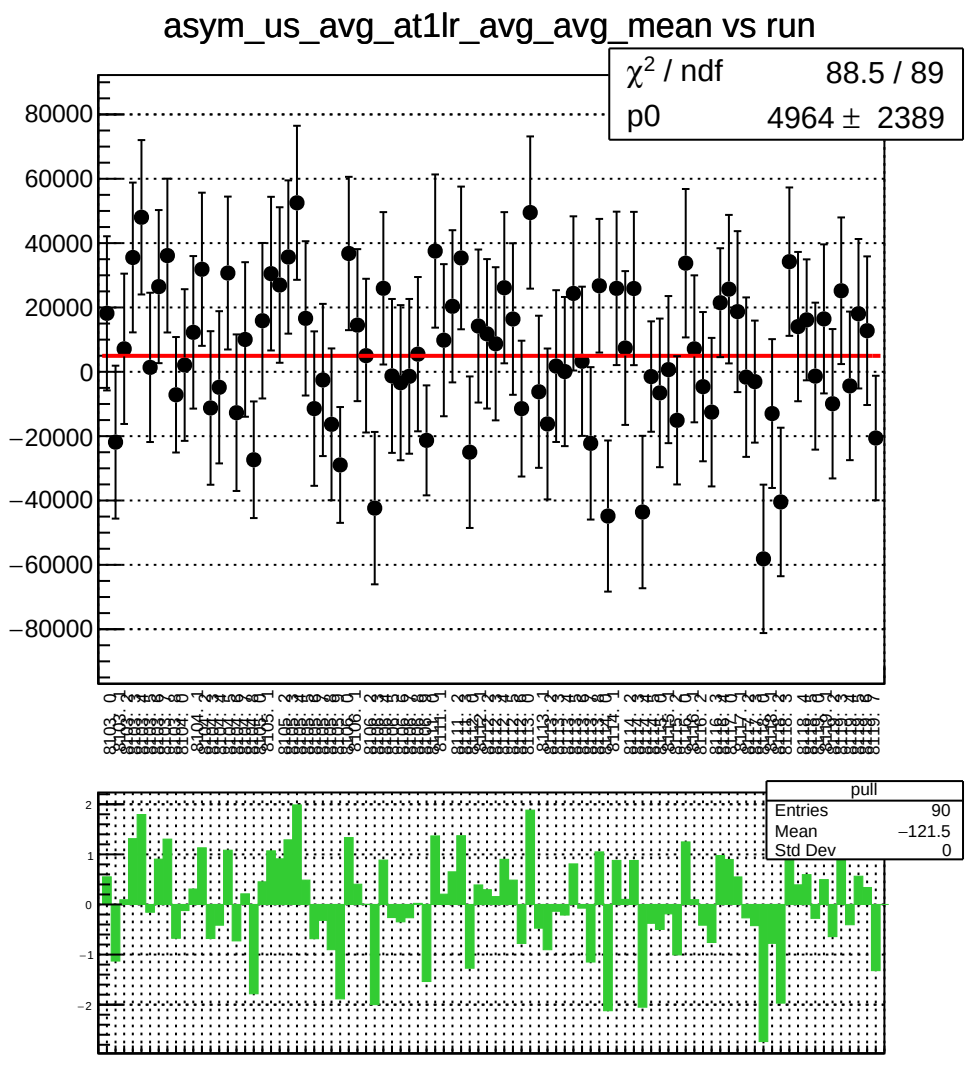

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 89.42 / 89
p0 5211 ± 2305
pull
Entries 90
Mean −29.35
Std Dev 0

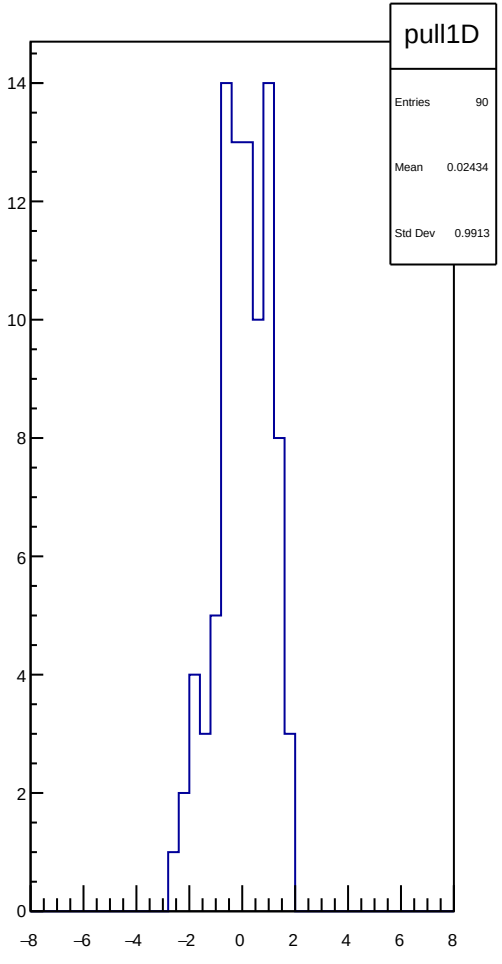

pull1D
Entries 90
Mean 0.02413
Std Dev 0.9965

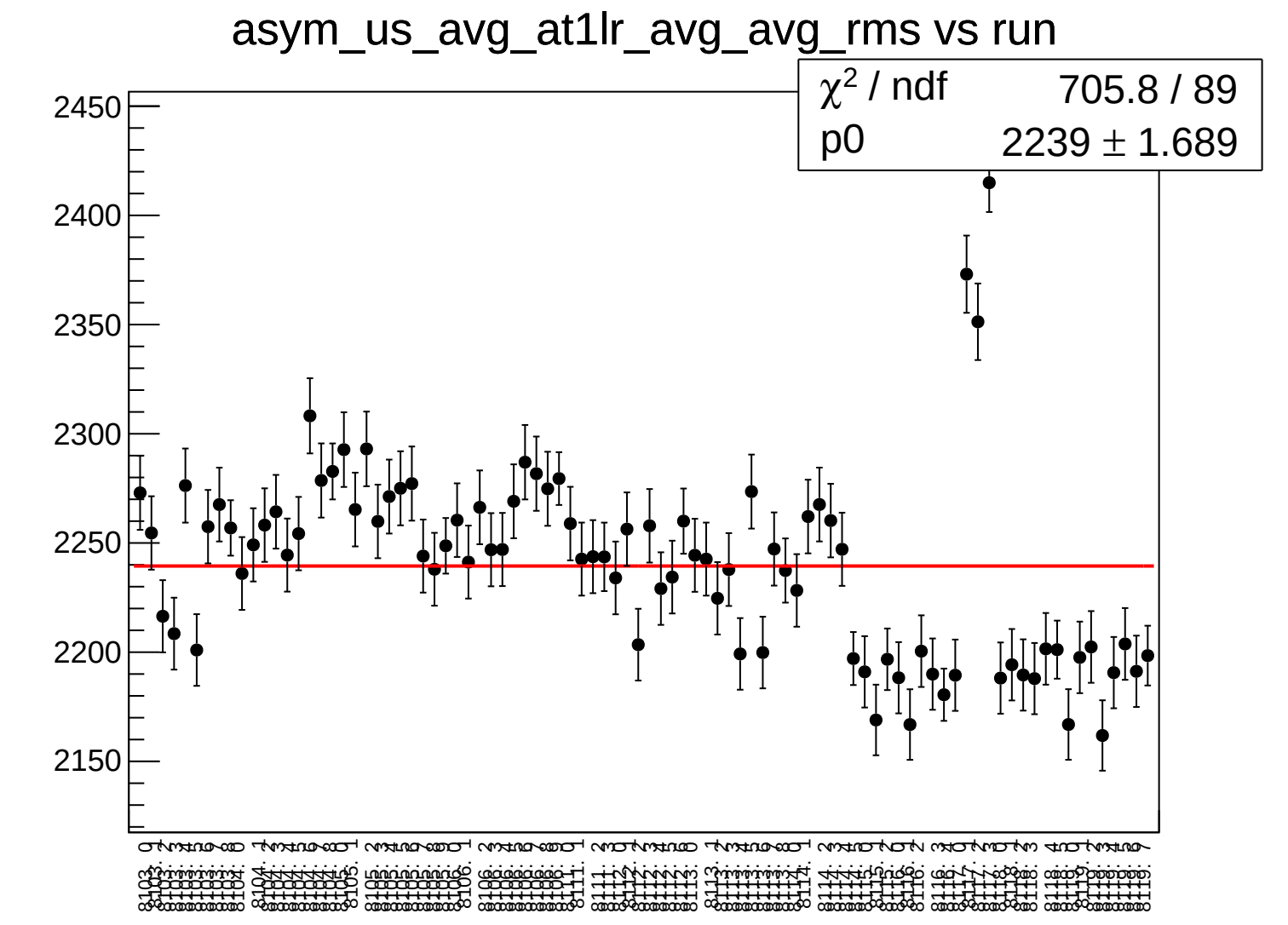

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 172.9 / 89
p0 2162 ± 1.63
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

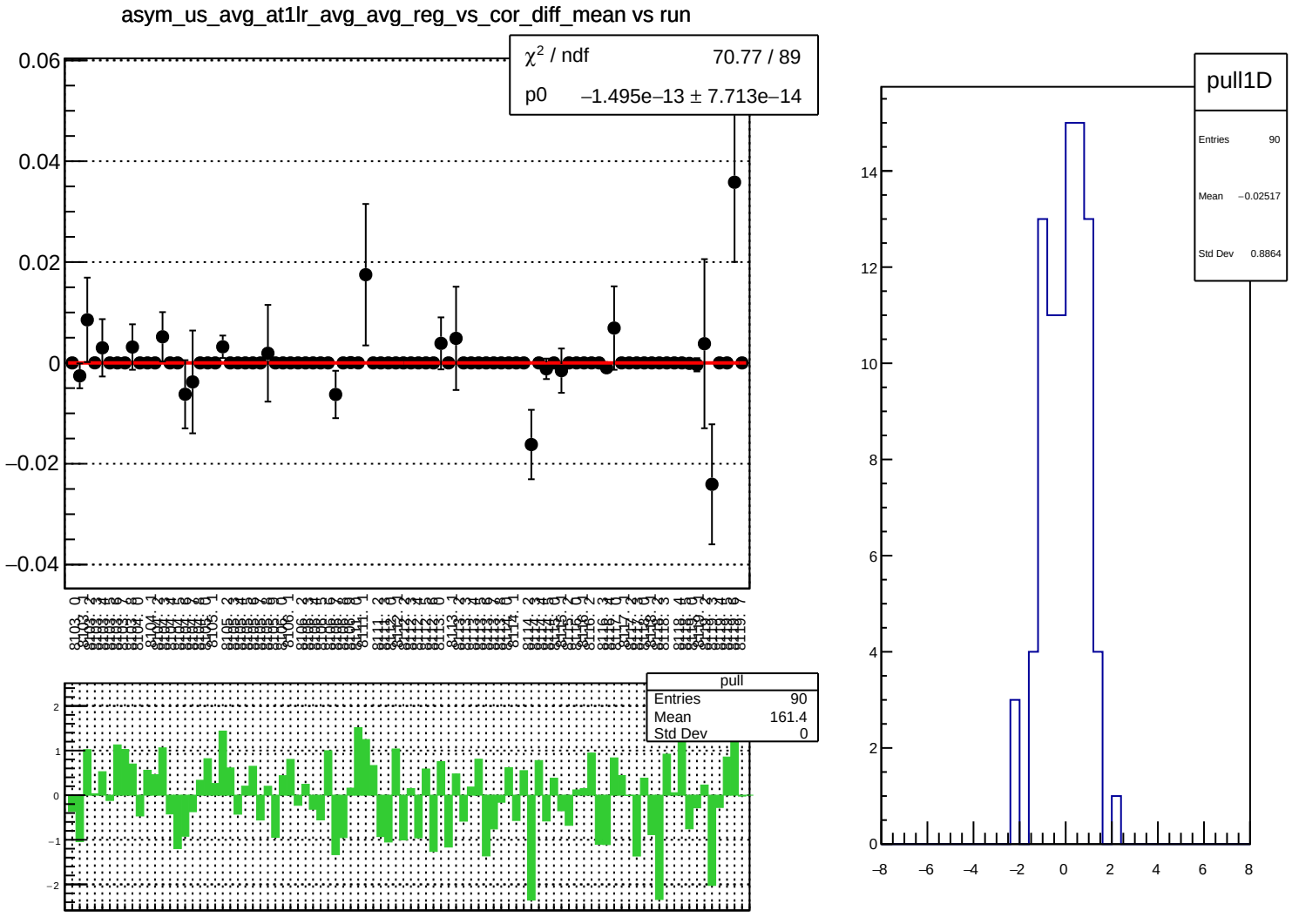

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.15 / 89
p0 123.5 ± 646.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1860
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.004684
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

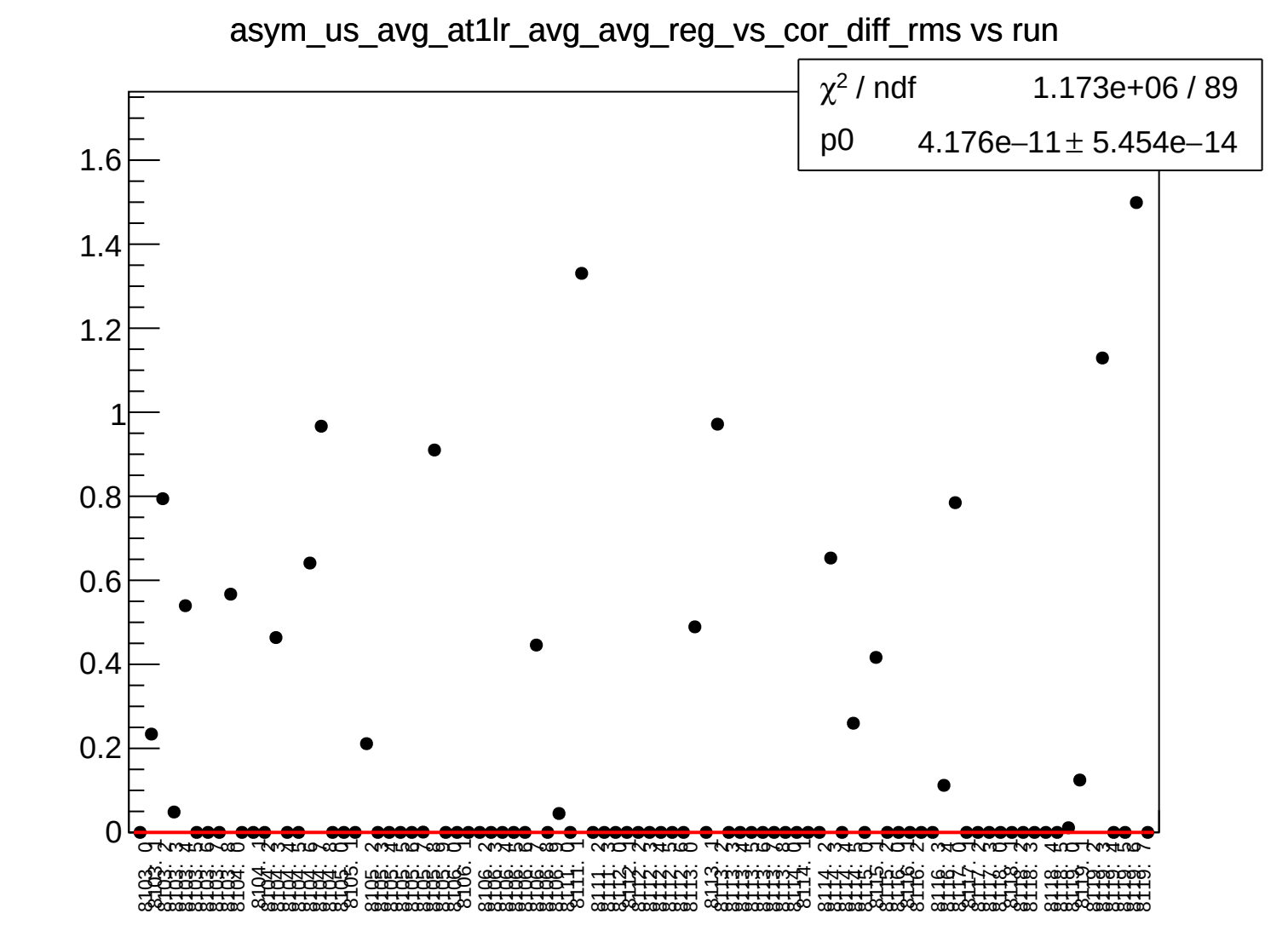

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2202 / 89
p0 605.9 ± 0.4572
700
680
660
640
620
600
580
560

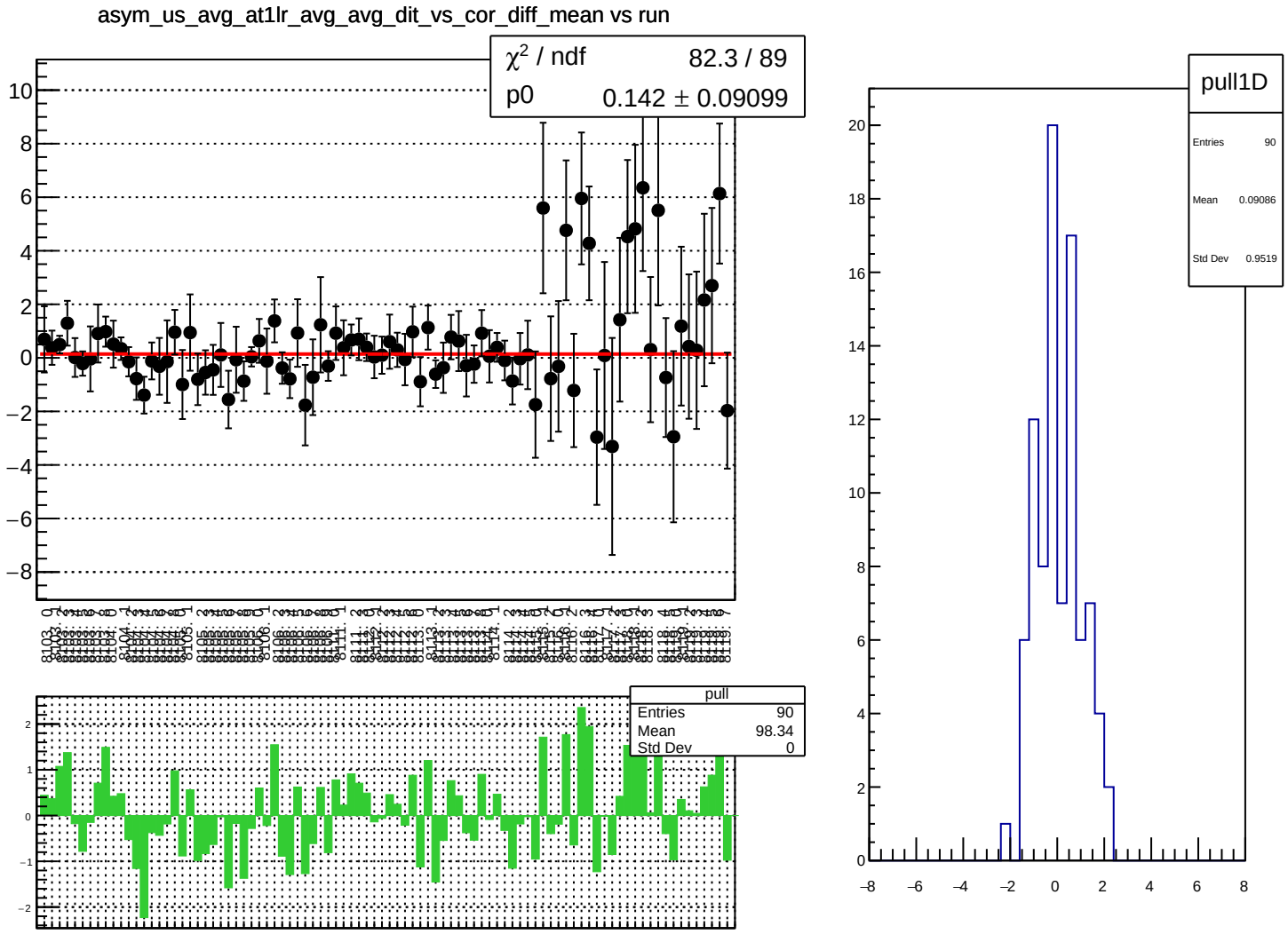

asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 88.5 / 89
p0 4964 ± 2389
pull
Entries 90
Mean −121.5
Std Dev 0

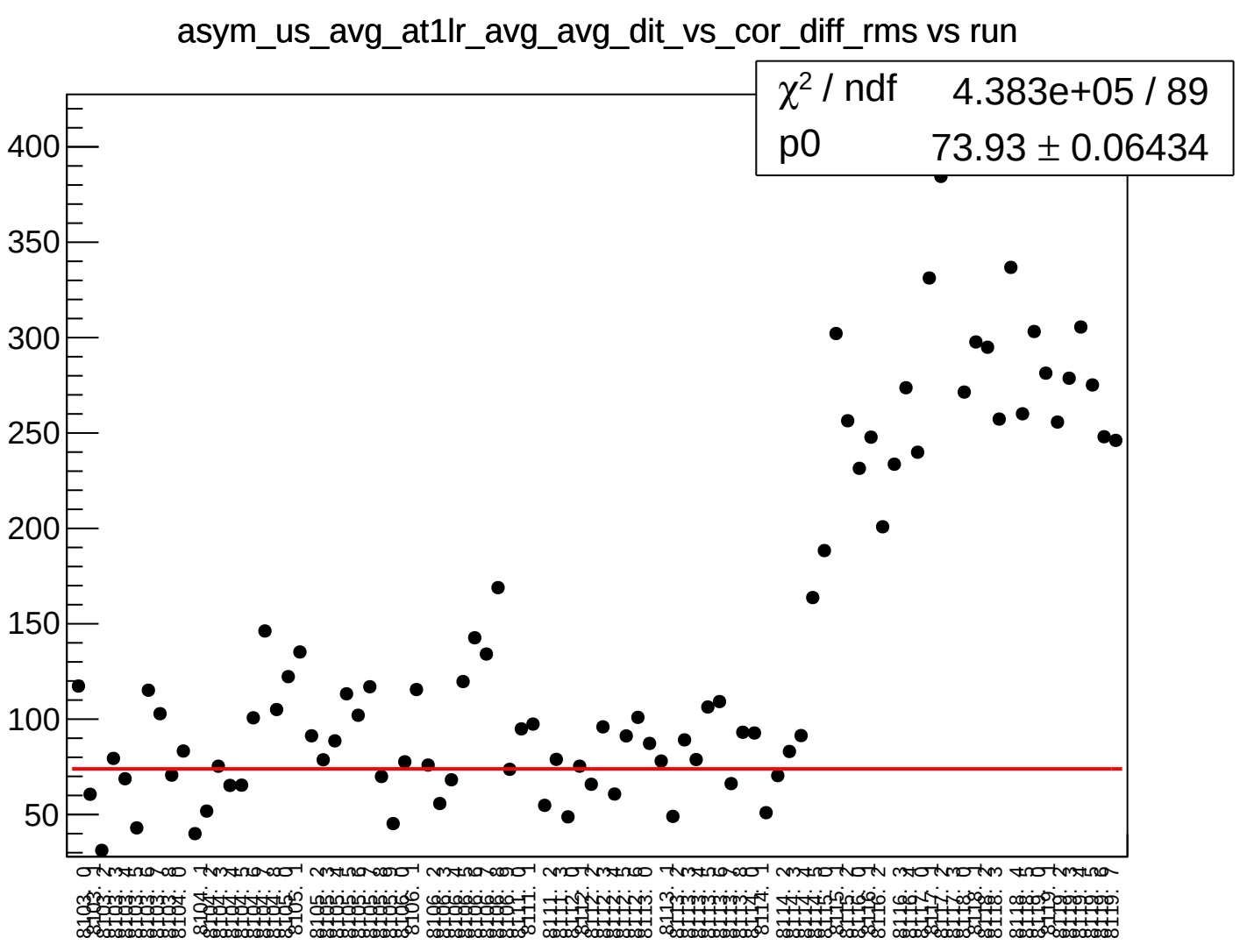

pull1D
Entries 90
Mean 0.02434
Std Dev 0.9913

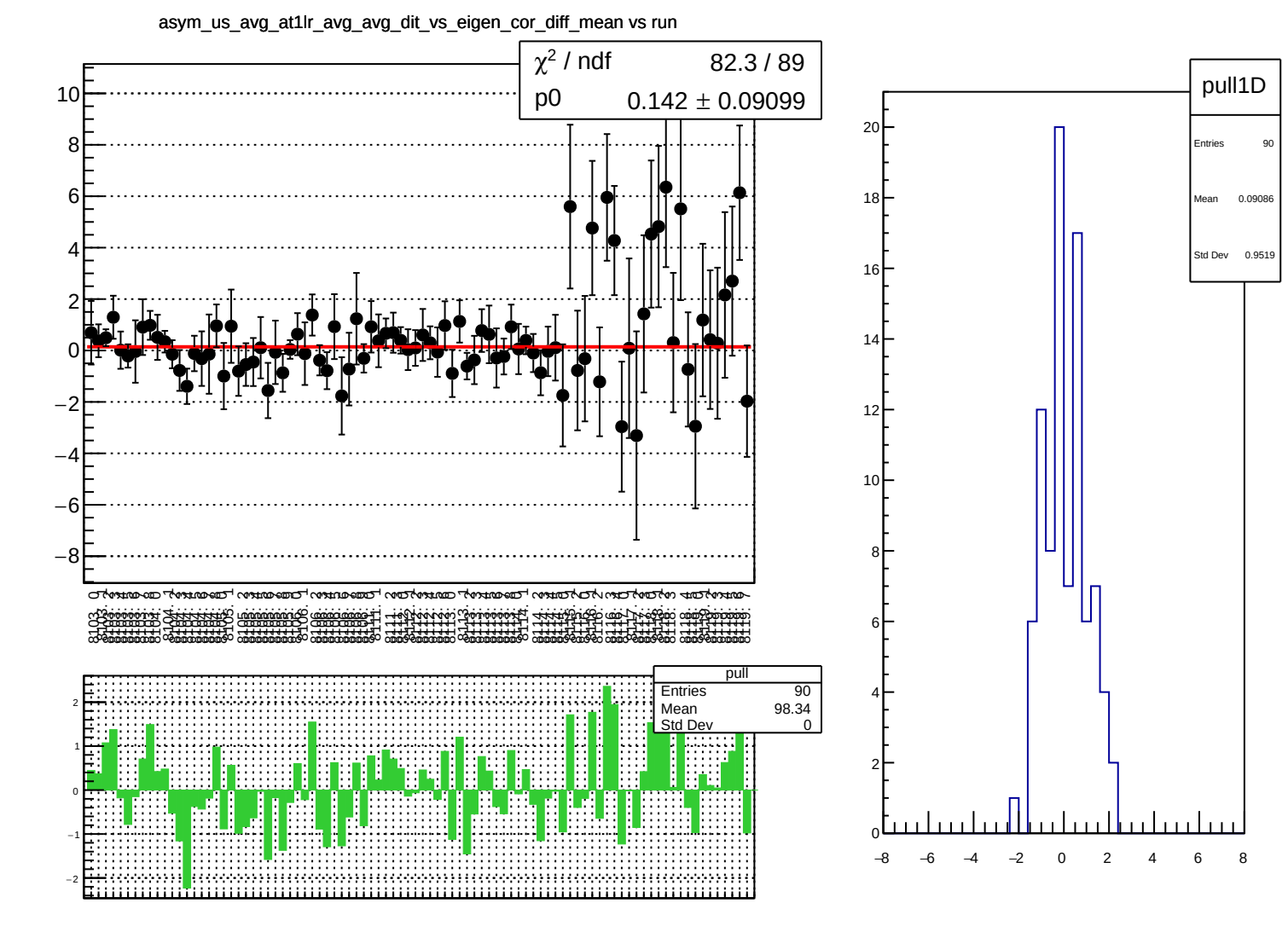

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 705.8 / 89
p0 2239 ± 1.689
2450
2400
2350
2300
2250
2200
2150

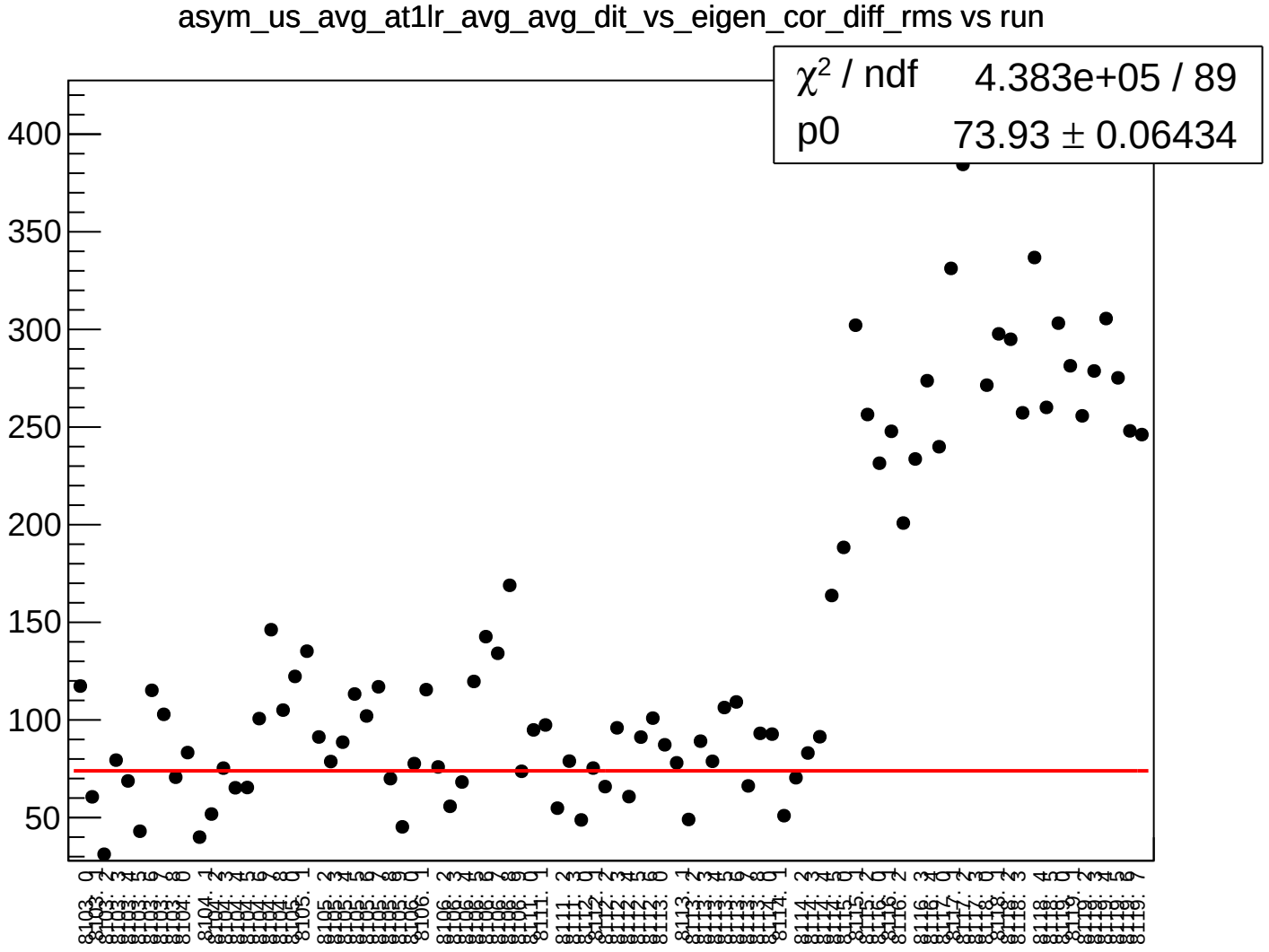

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.77 / 89
p0 −1.495e−13 ± 7.713e−14
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 90
Mean 161.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.02517
Std Dev 0.8864
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

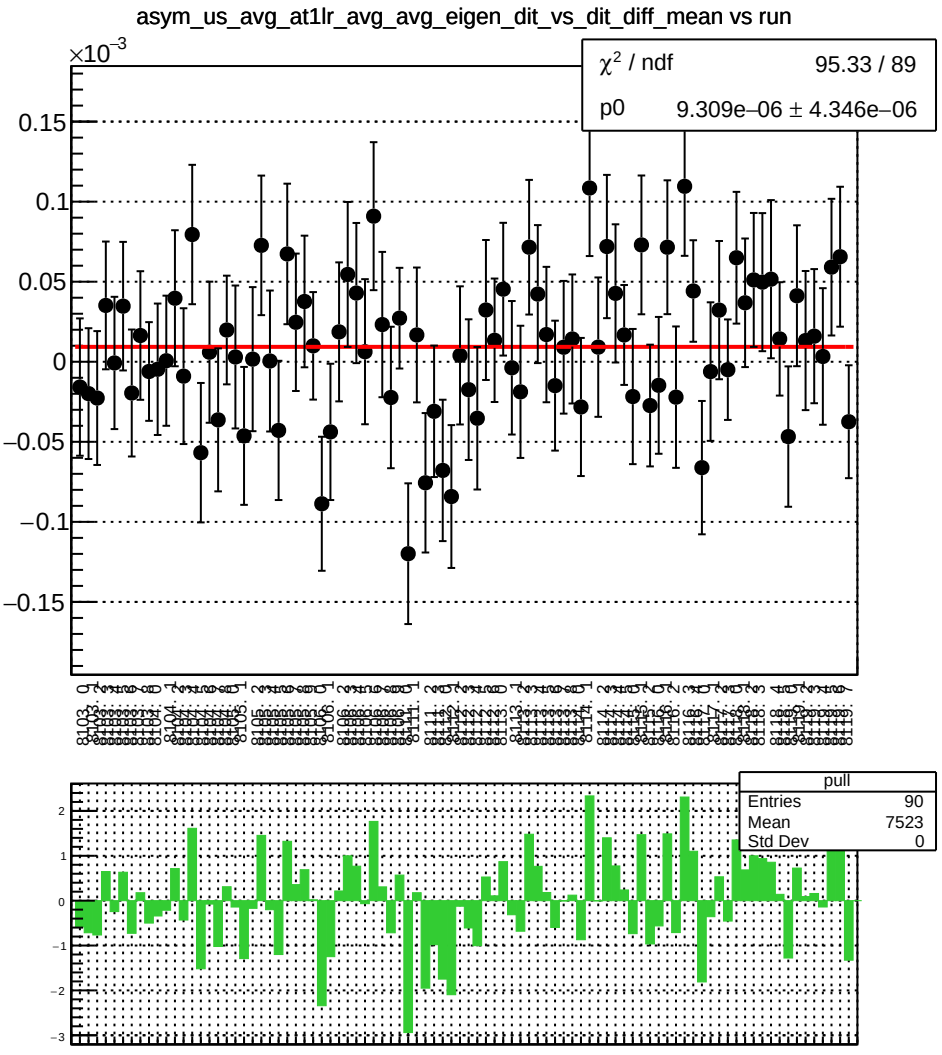

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 89
p0 4.176e−11 ± 5.454e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

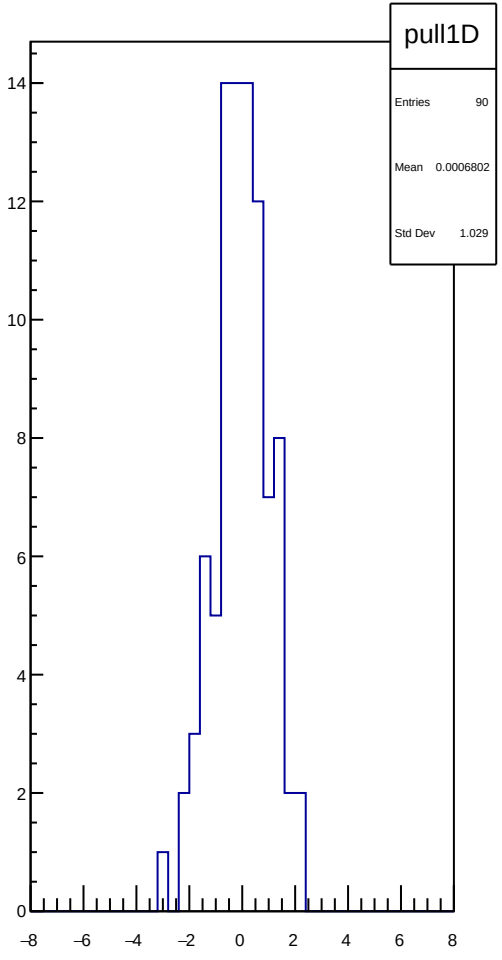

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.3 / 89
p0 0.142 ± 0.09099
pull
Entries 90
Mean 98.34
Std Dev 0
pull1D
Entries 90
Mean 0.09086
Std Dev 0.9519

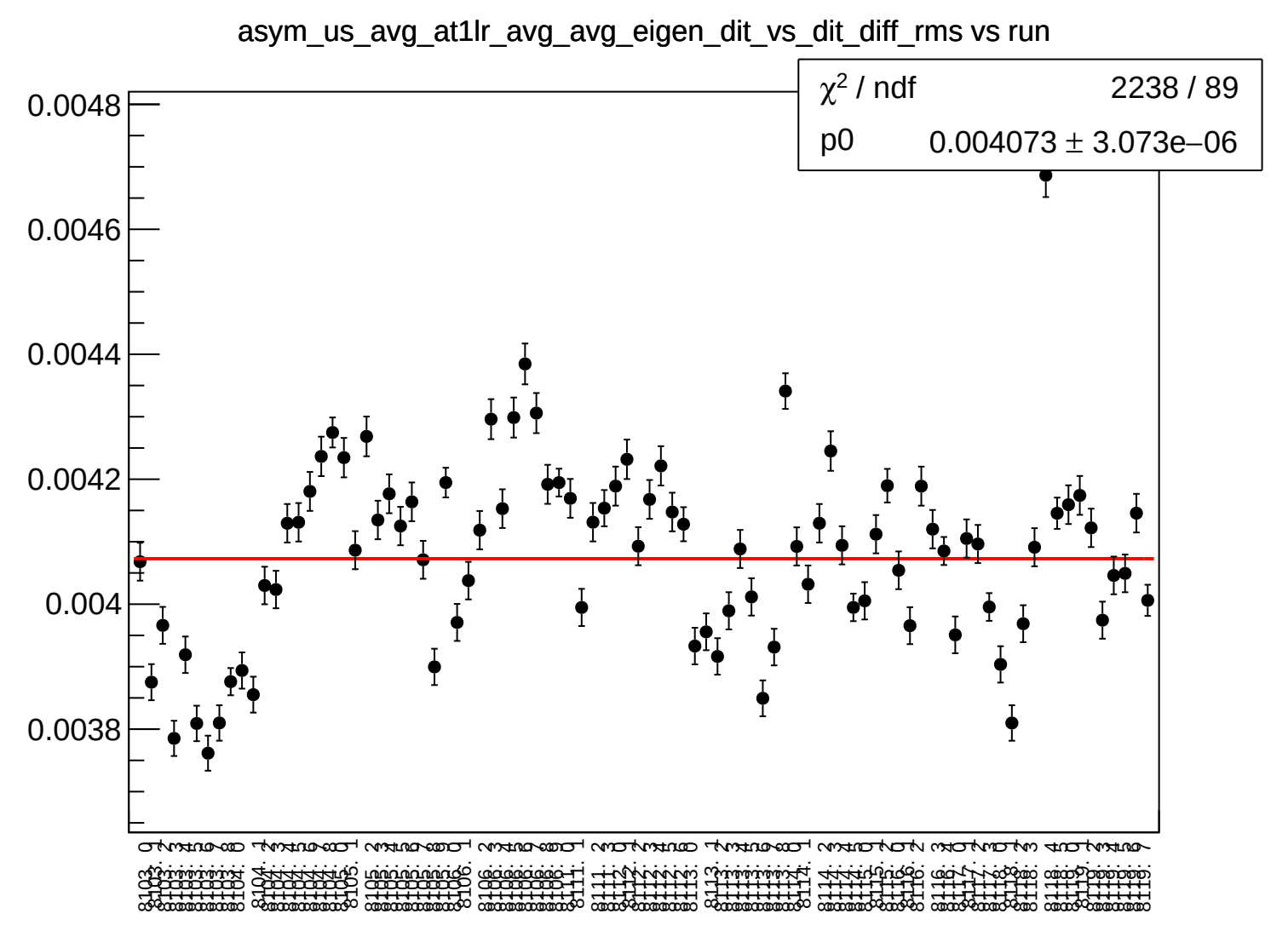

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.383e+05 / 89
p0 73.93 ± 0.06434
400
350
300
250
200
150
100
50

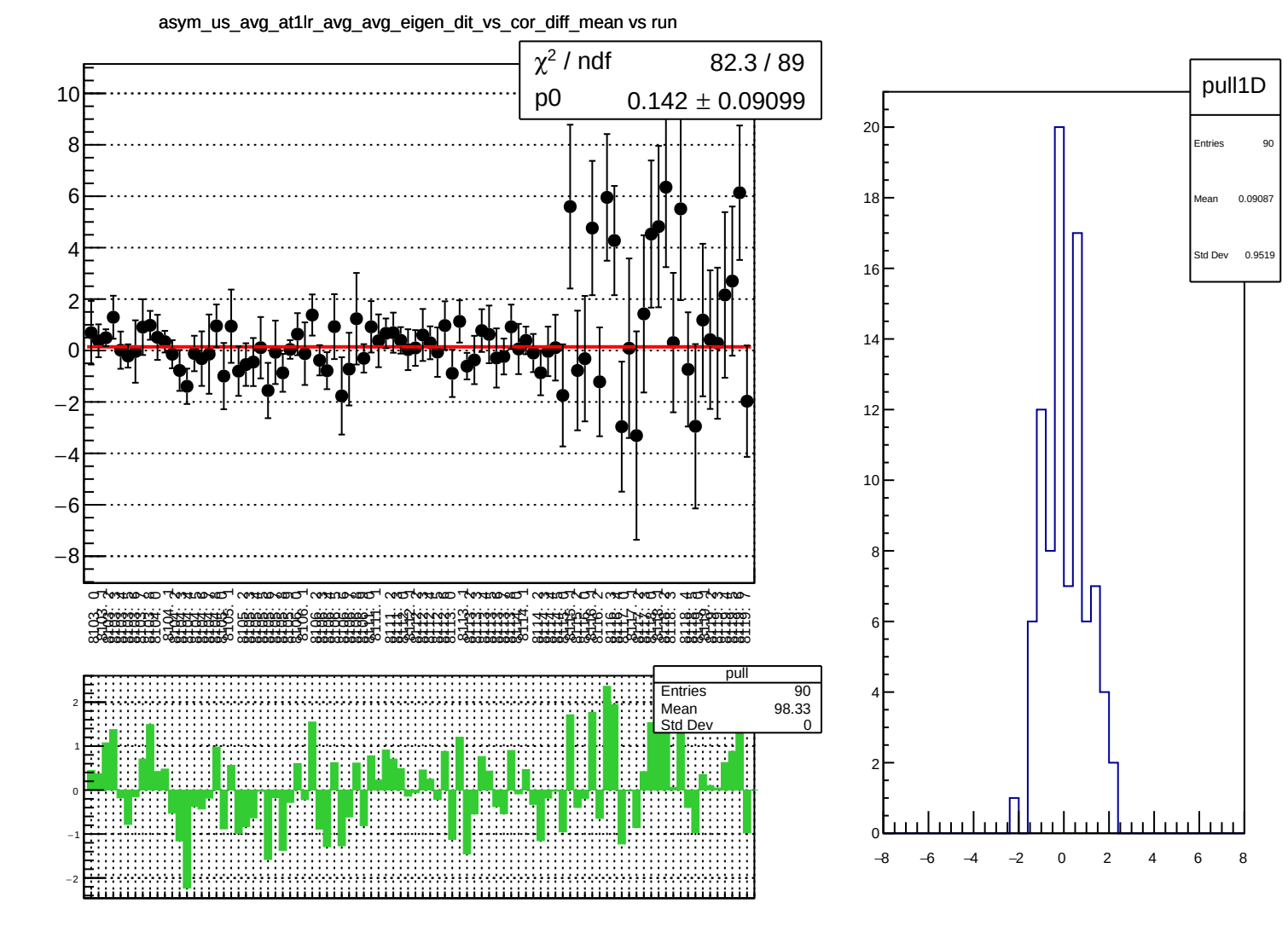

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.3 / 89
p0 0.142 ± 0.09099
pull
Entries 90
Mean 98.34
Std Dev 0
pull1D
Entries 90
Mean 0.09086
Std Dev 0.9519

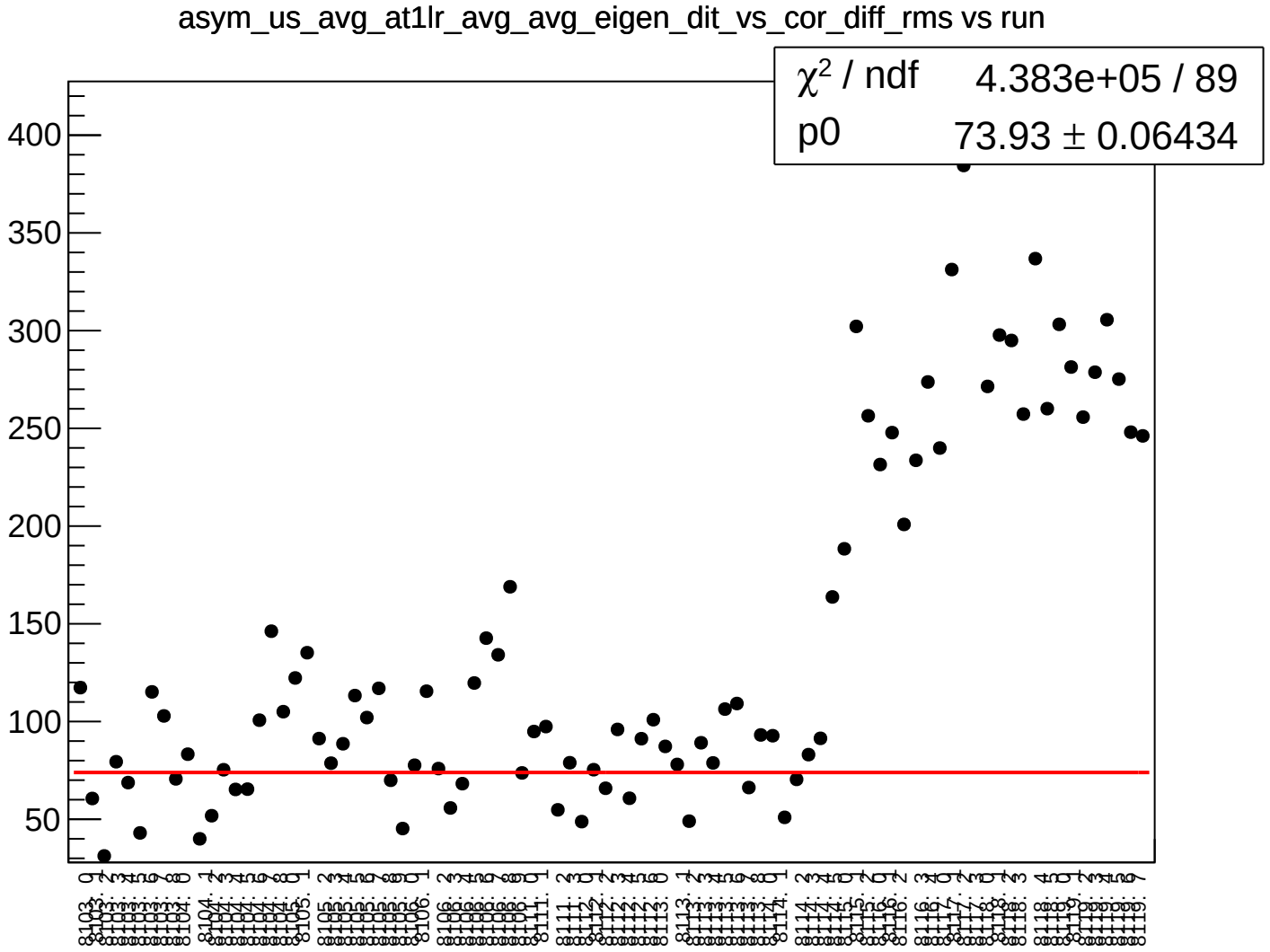

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.383e+05 / 89
p0 73.93 ± 0.06434
400
350
300
250
200
150
100
50

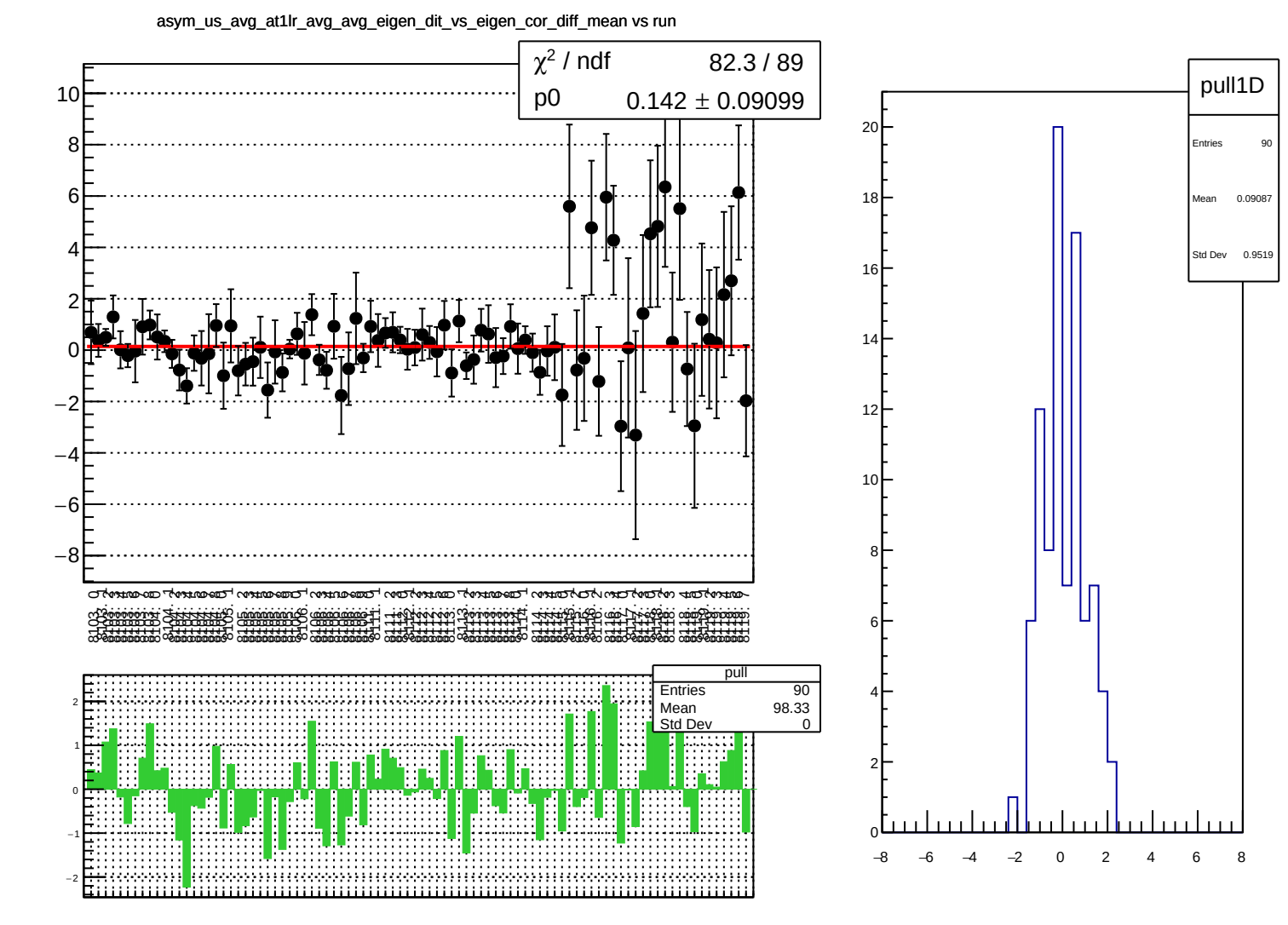

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.33 / 89
p0 9.309e−06 ± 4.346e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 90
Mean 7523
Std Dev 0
2
1
0
−1
−2
−3

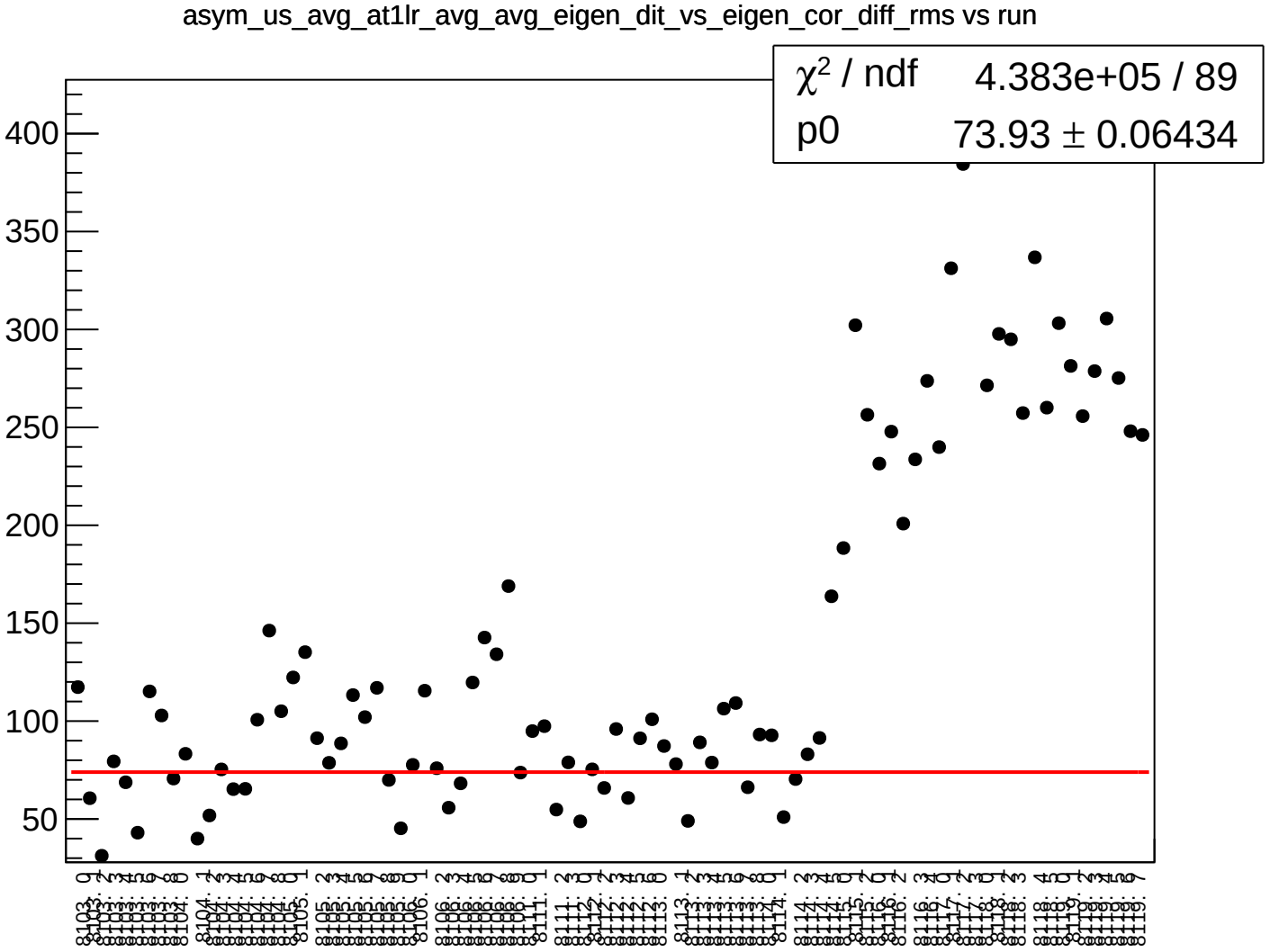

pull1D
Entries 90
Mean 0.0006802
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

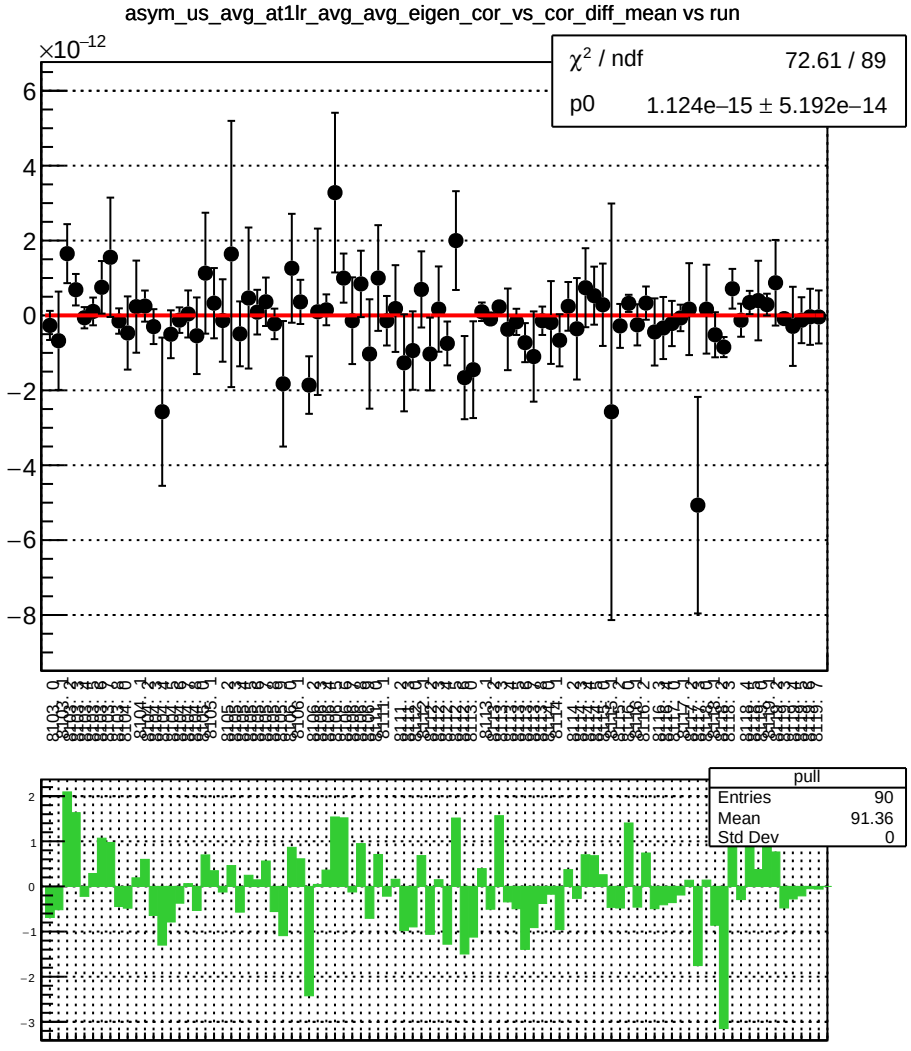

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2238 / 89
p0 0.004073 ± 3.073e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

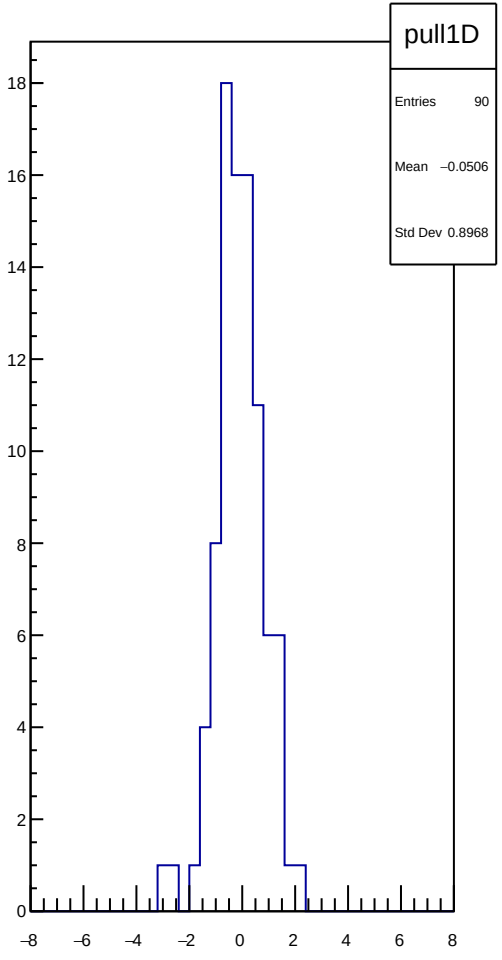

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.3 / 89
p0 0.142 ± 0.09099
pull
Entries 90
Mean 98.33
Std Dev 0
pull1D
Entries 90
Mean 0.09087
Std Dev 0.9519

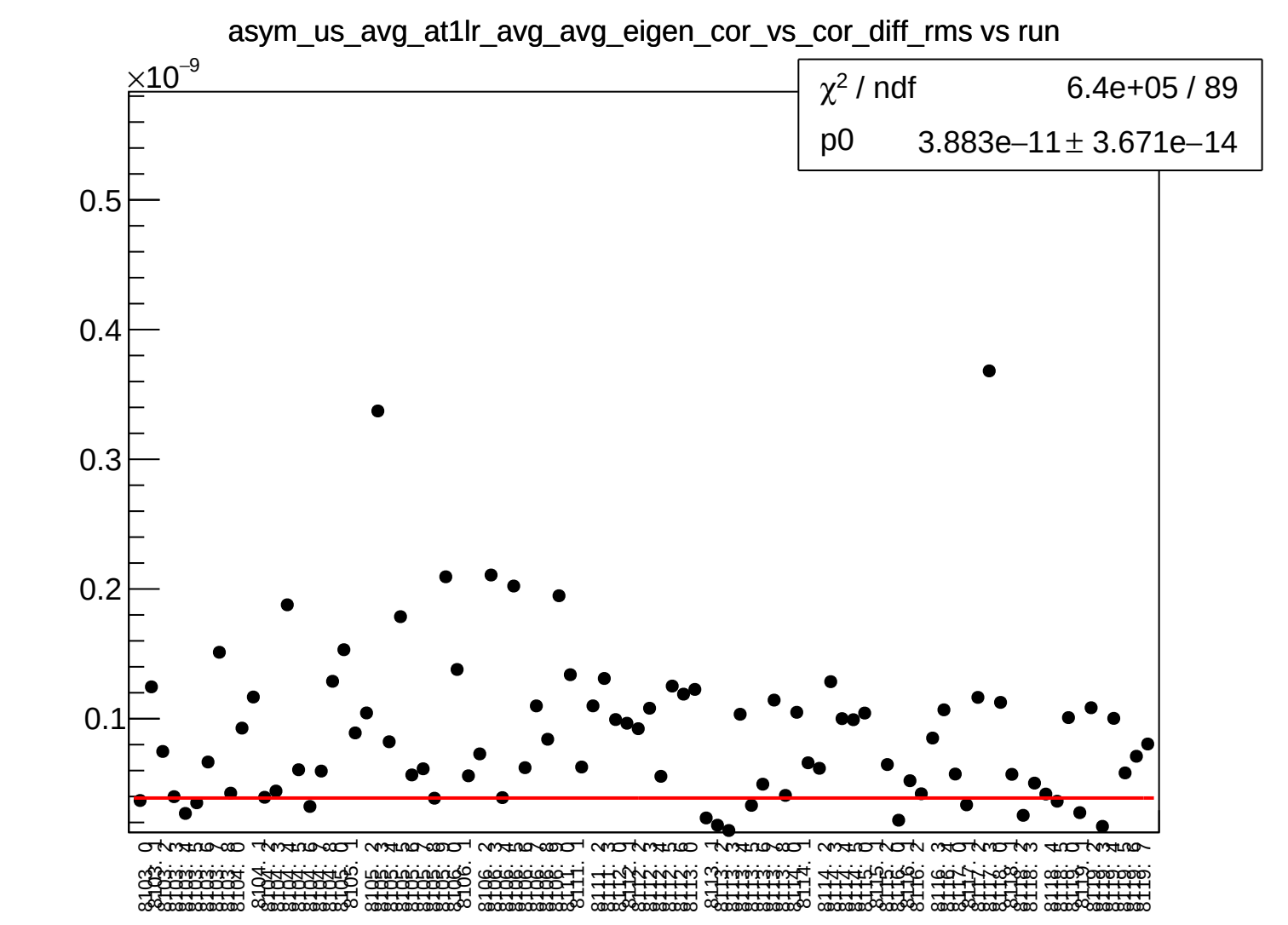

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.383e+05 / 89
p0 73.93 ± 0.06434
400
350
300
250
200
150
100
50

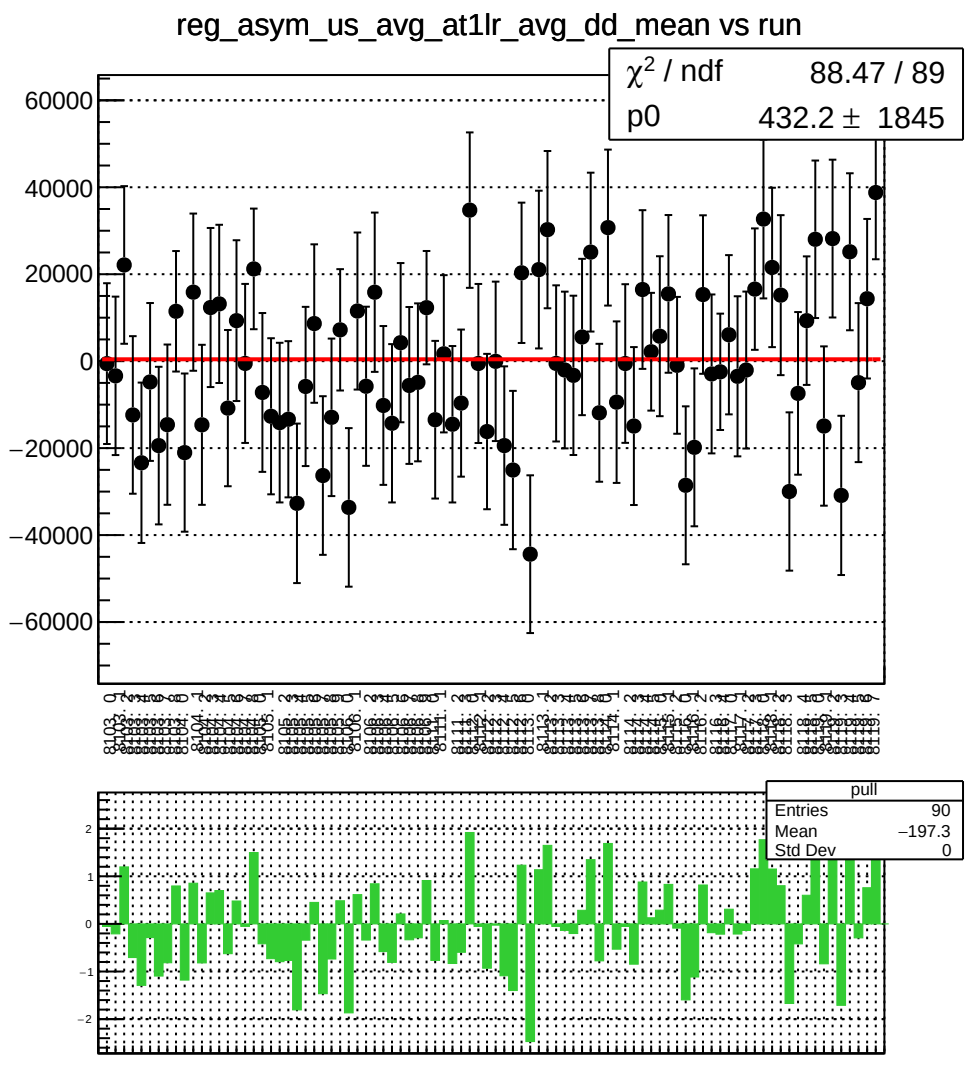

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.3 / 89
p0 0.142 ± 0.09099
pull
Entries 90
Mean 98.33
Std Dev 0
pull1D
Entries 90
Mean 0.09087
Std Dev 0.9519

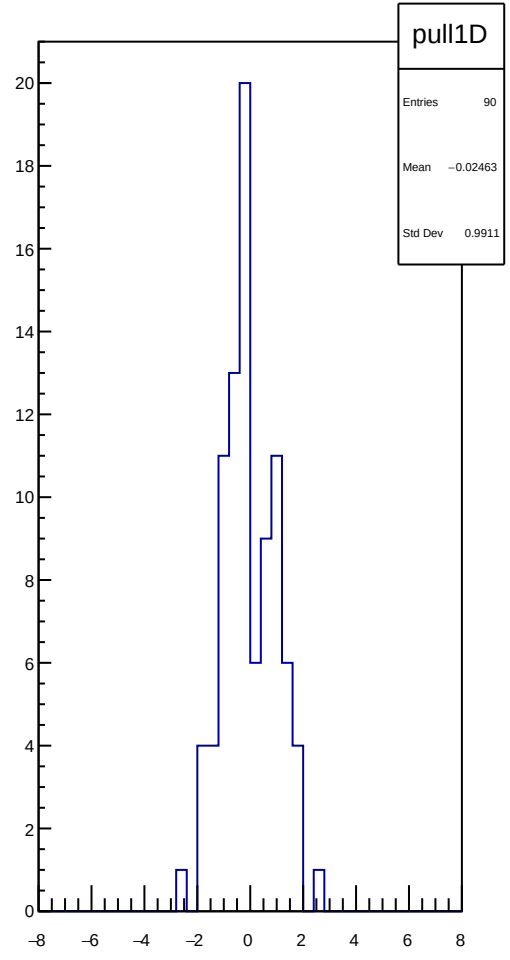

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.383e+05 / 89
p0 73.93 ± 0.06434
400
350
300
250
200
150
100
50

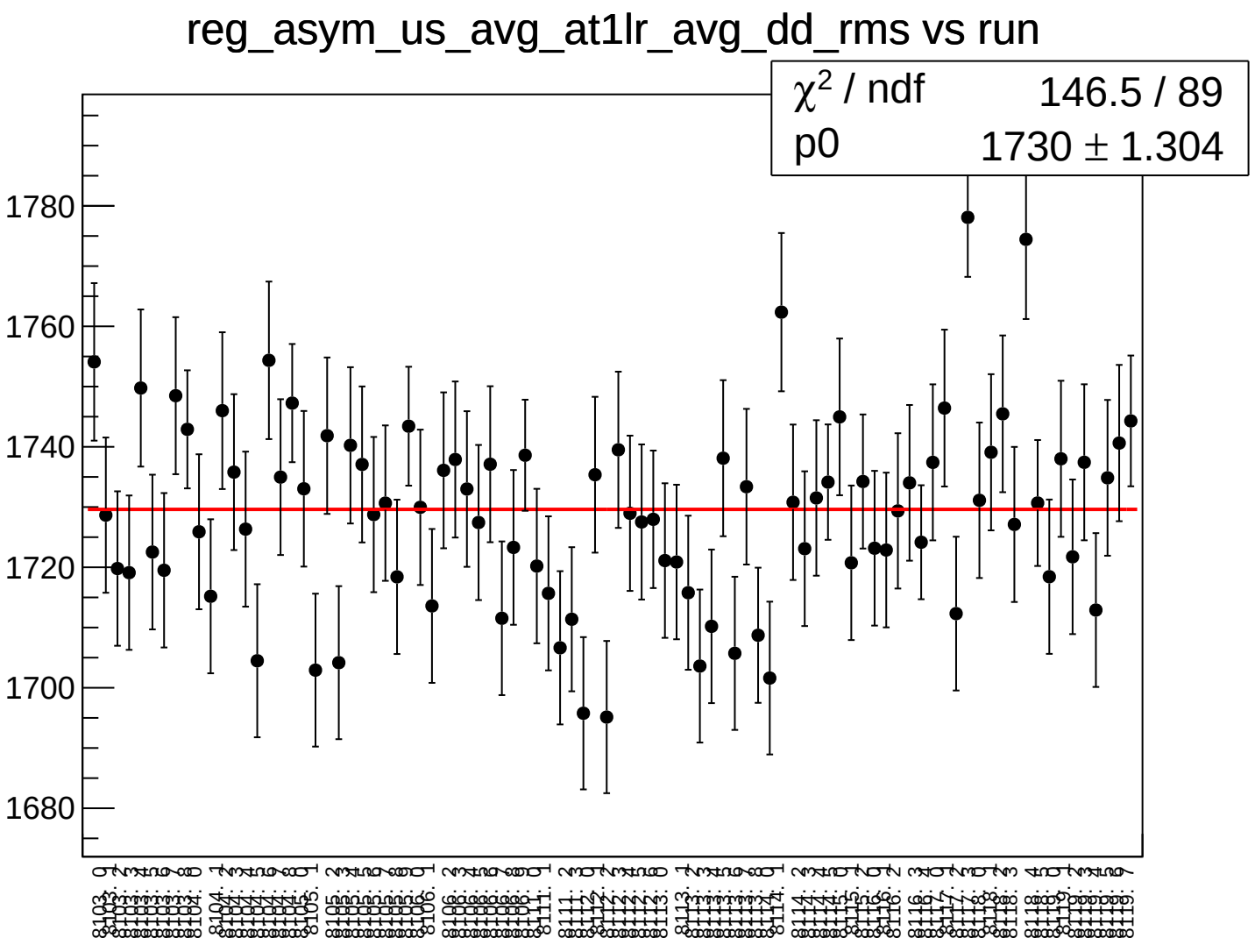

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.61 / 89
p0 1.124e−15 ± 5.192e−14
pull
Entries 90
Mean 91.36
Std Dev 0

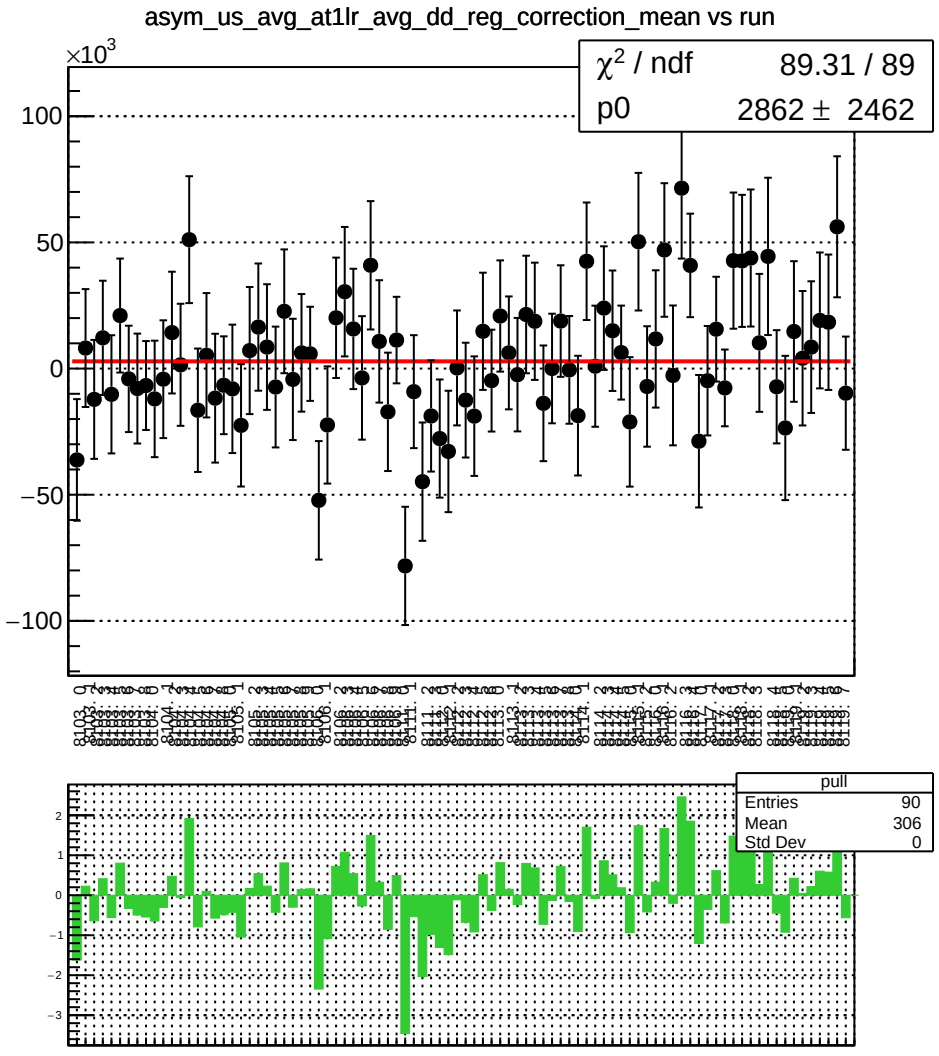

pull1D
Entries 90
Mean −0.0506
Std Dev 0.8968

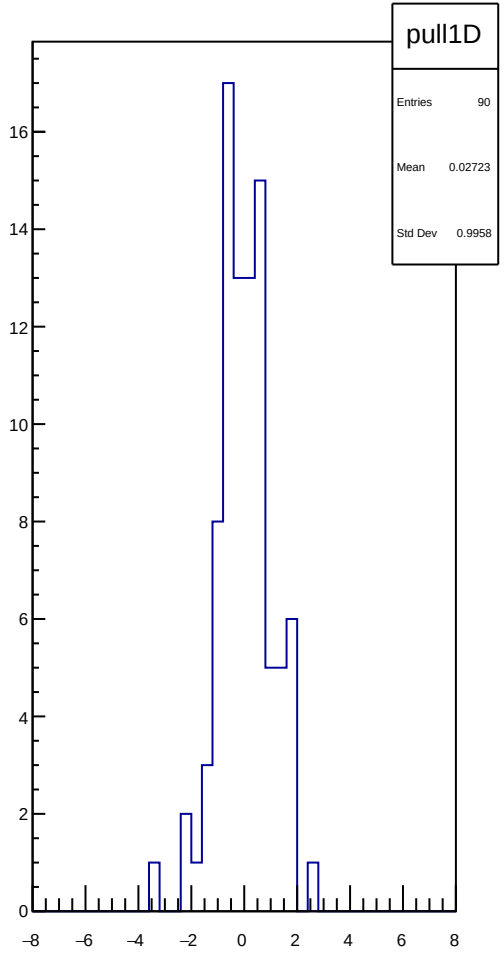

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.4e+05 / 89
p0 3.883e−11 ± 3.671e−14
0.5
0.4
0.3
0.2
0.1

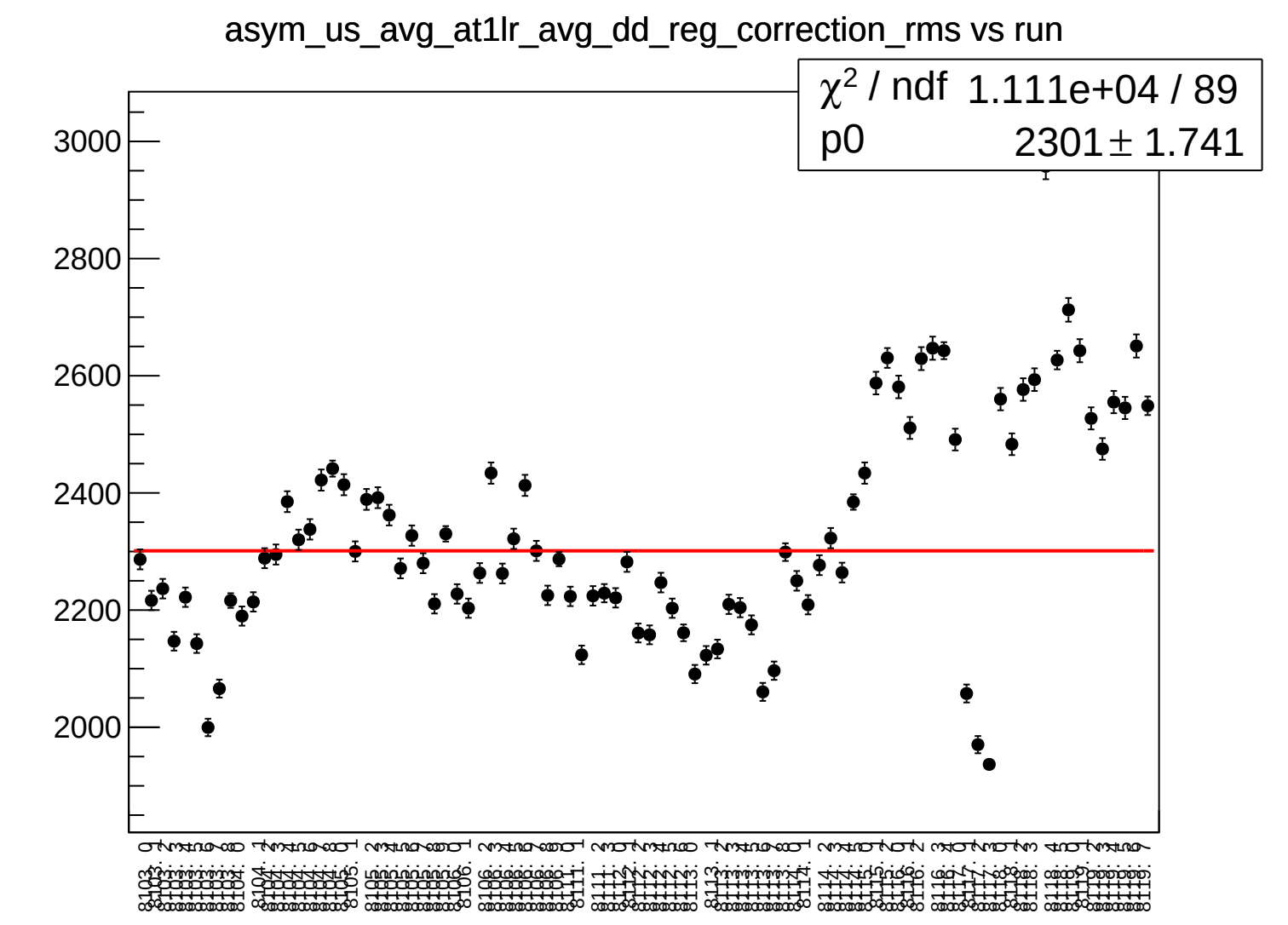

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.47 / 89
p0 432.2 ± 1845
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −197.3
Std Dev 0
2
1
0
−1
−2

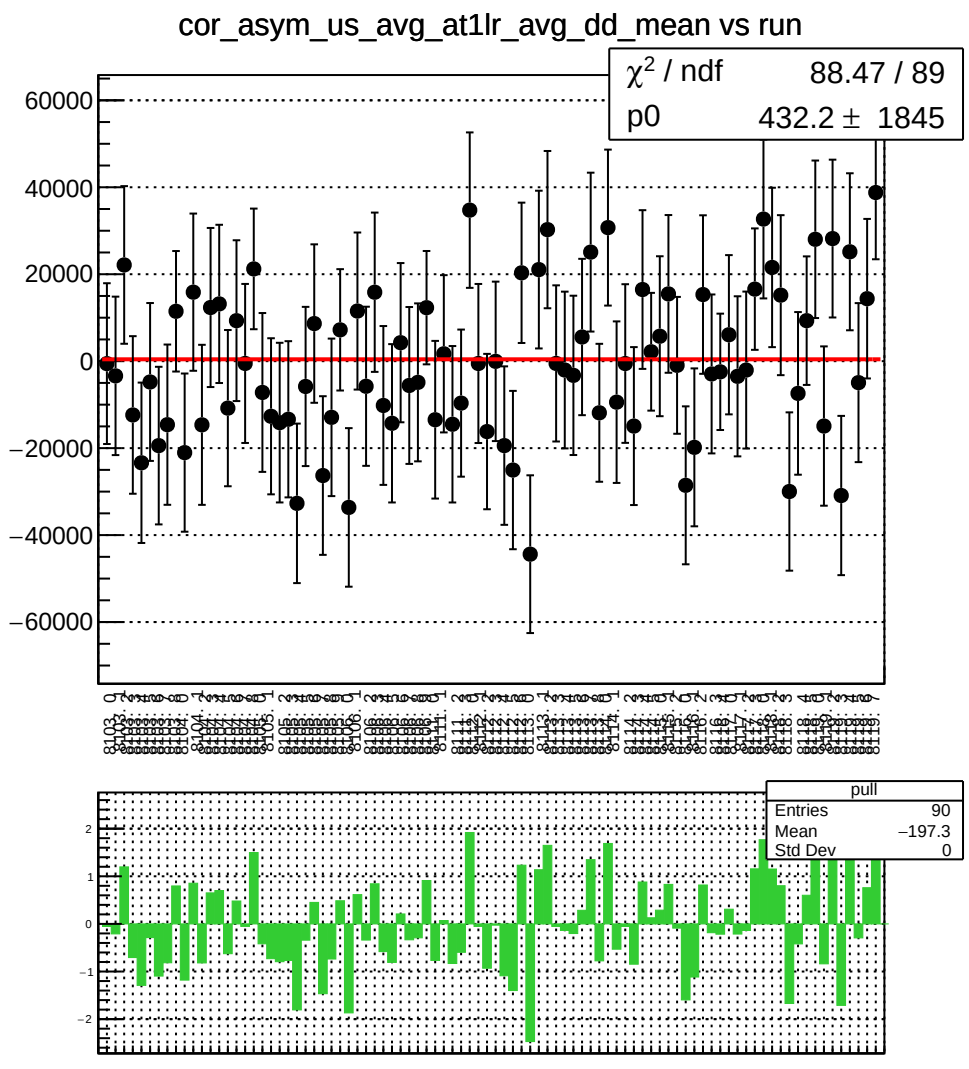

pull1D
Entries 90
Mean −0.02463
Std Dev 0.9911
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

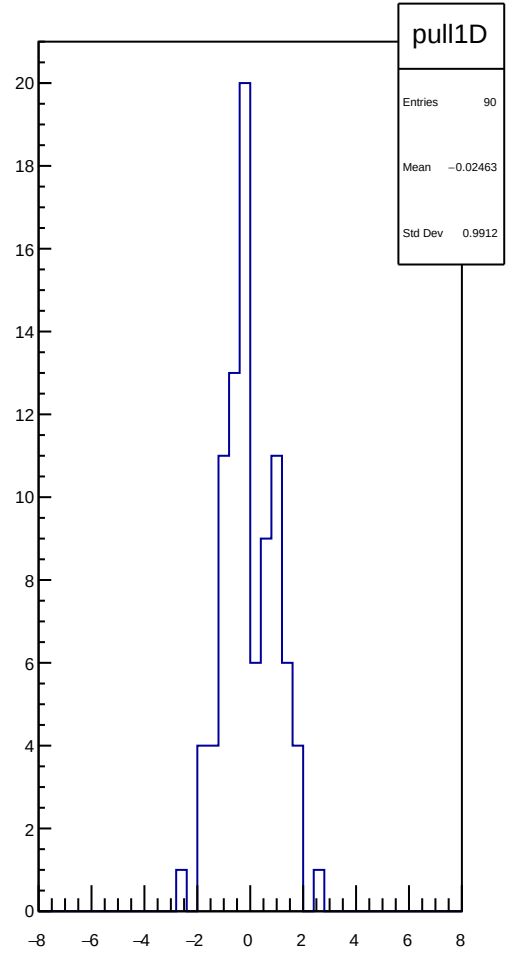

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 146.5 / 89
p0 1730 ± 1.304
1780
1760
1740
1720
1700
1680

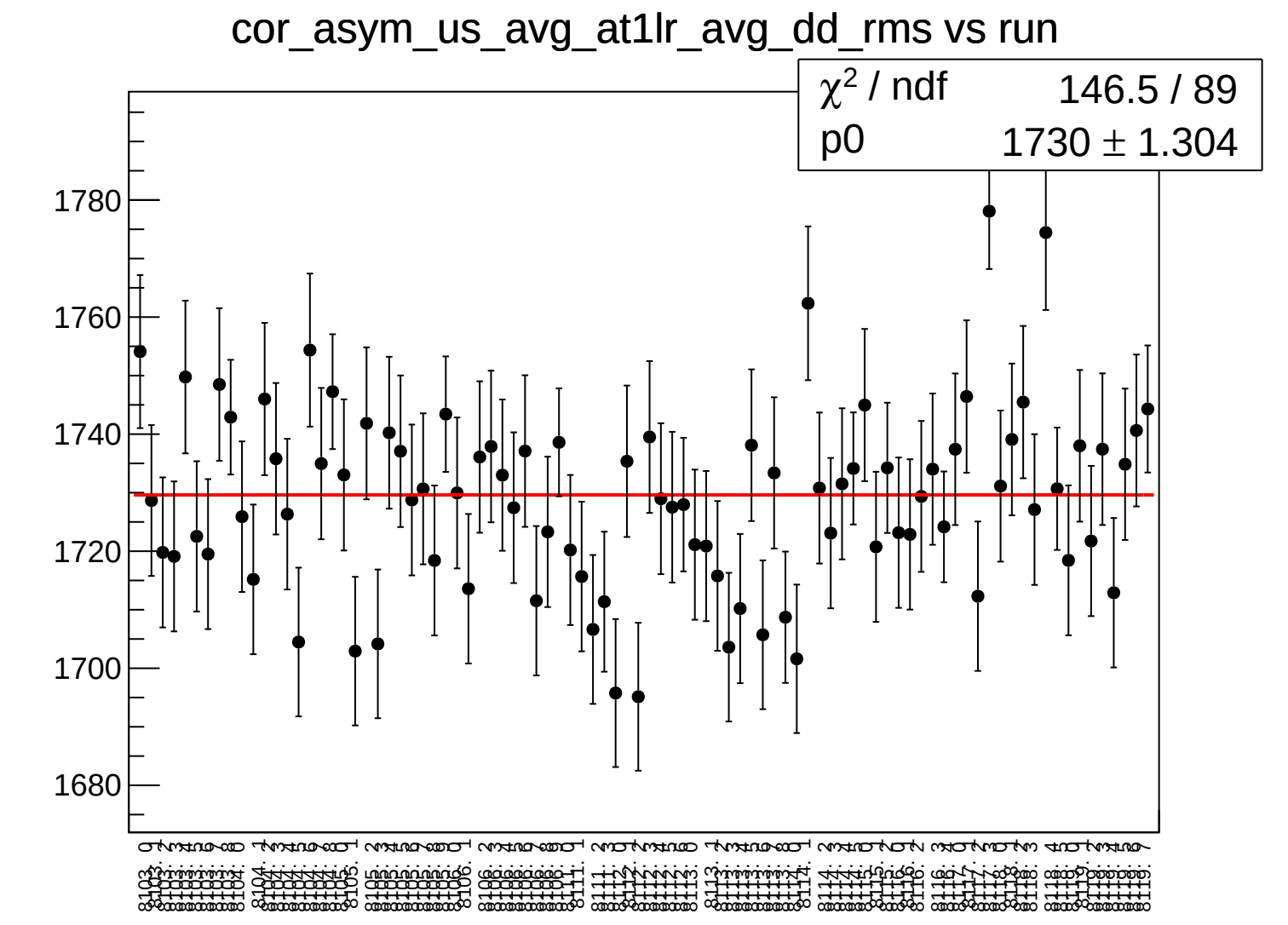

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.31 / 89
p0 2862 ± 2462
100
50
0
−50
−100
pull
Entries 90
Mean 306
Std Dev 0
2
1
0
−1
−2
−3

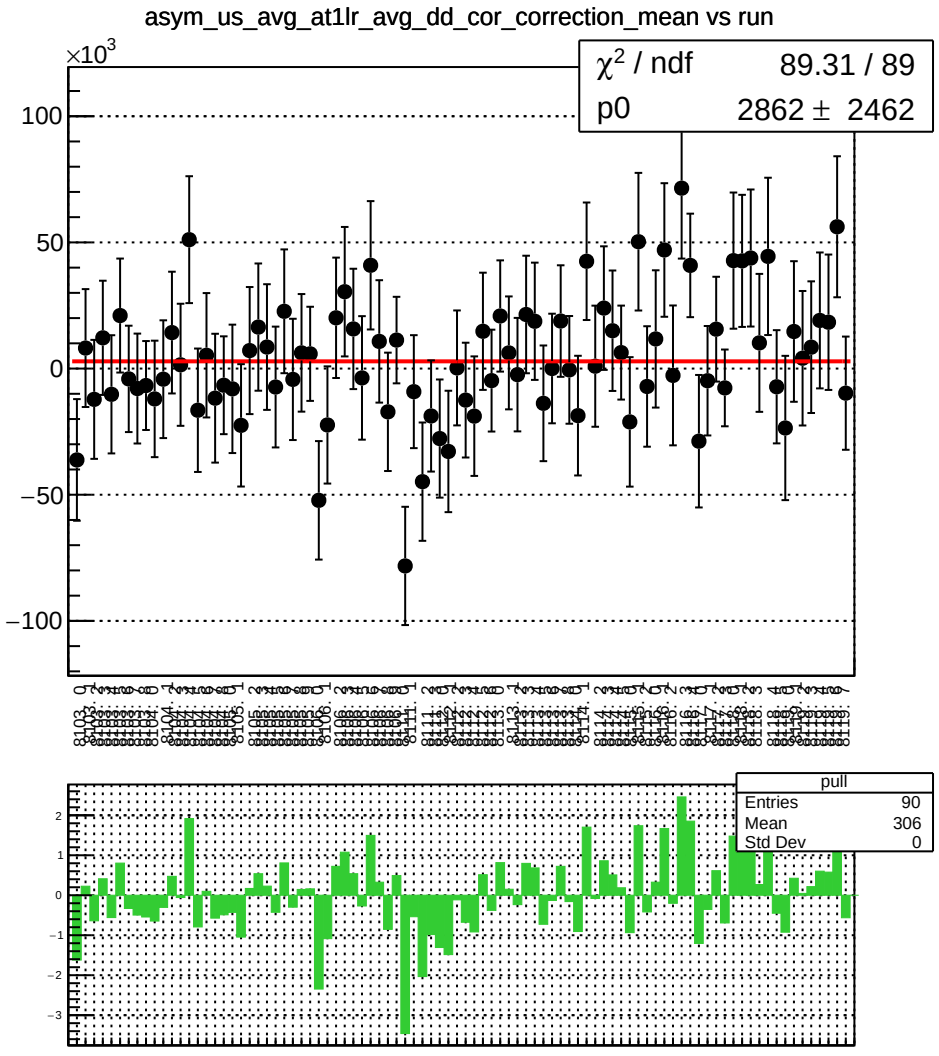

pull1D
Entries 90
Mean 0.02723
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

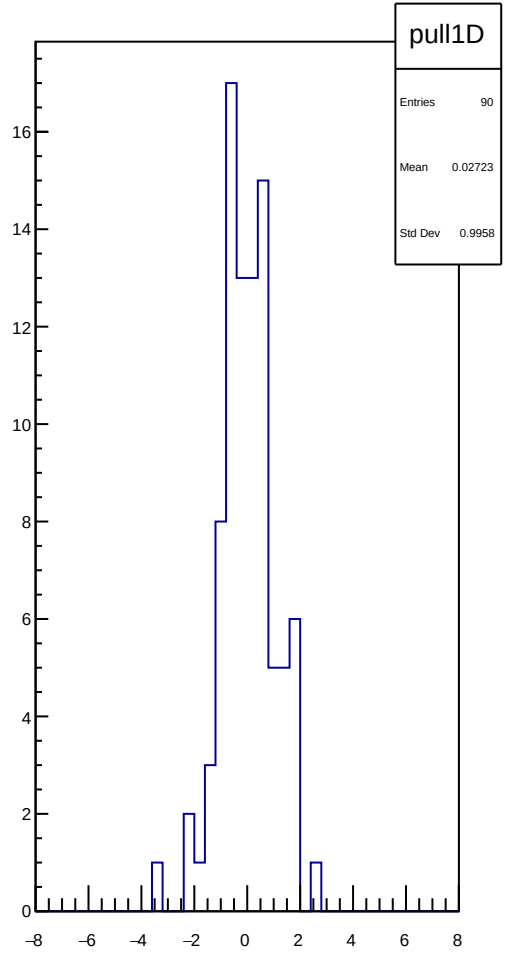

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.111e+04 / 89
p0 2301 ± 1.741
3000
2800
2600
2400
2200
2000

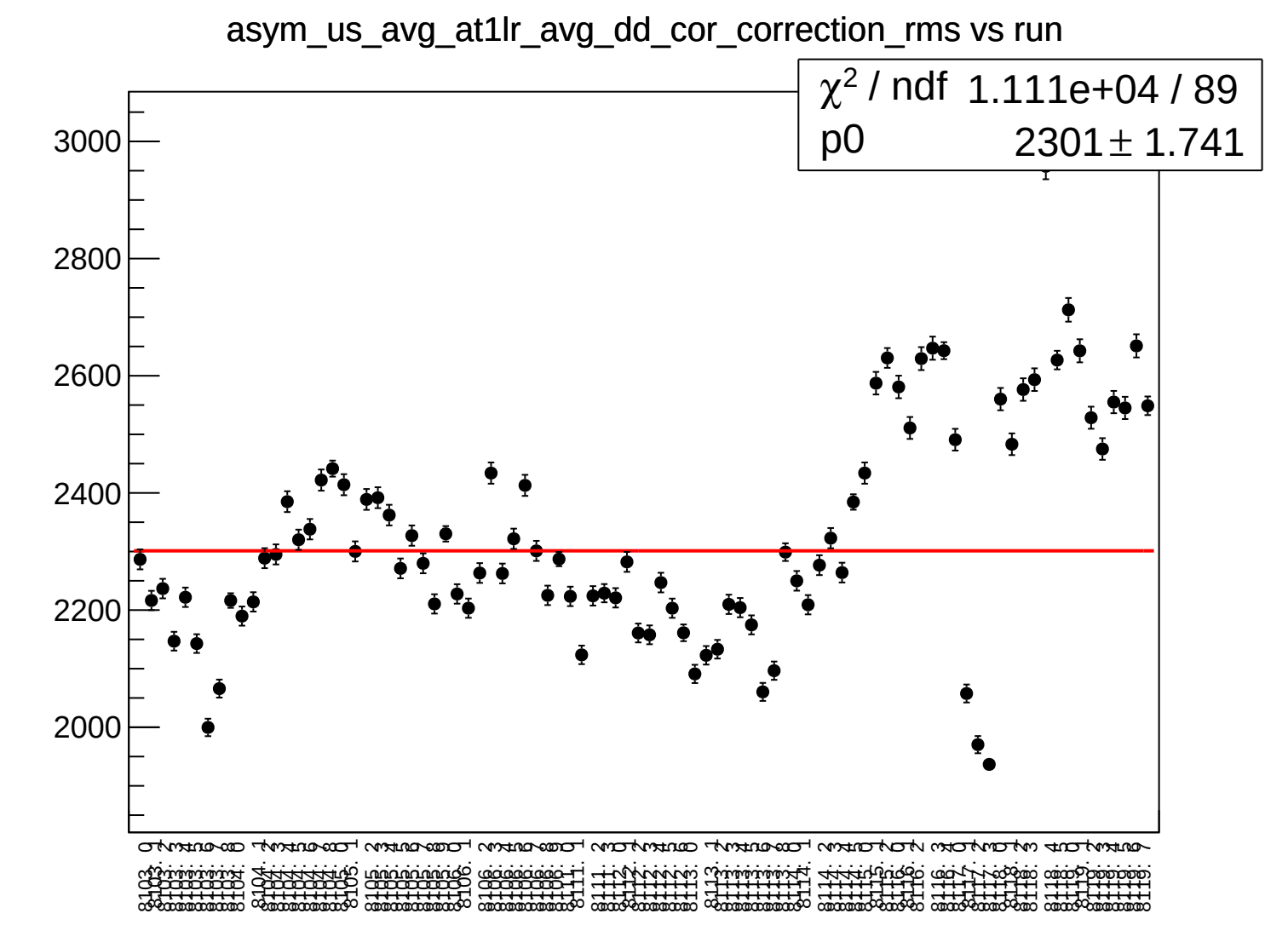

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.47 / 89
p0 432.2 ± 1845
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −197.3
Std Dev 0
2
1
0
−1
−2

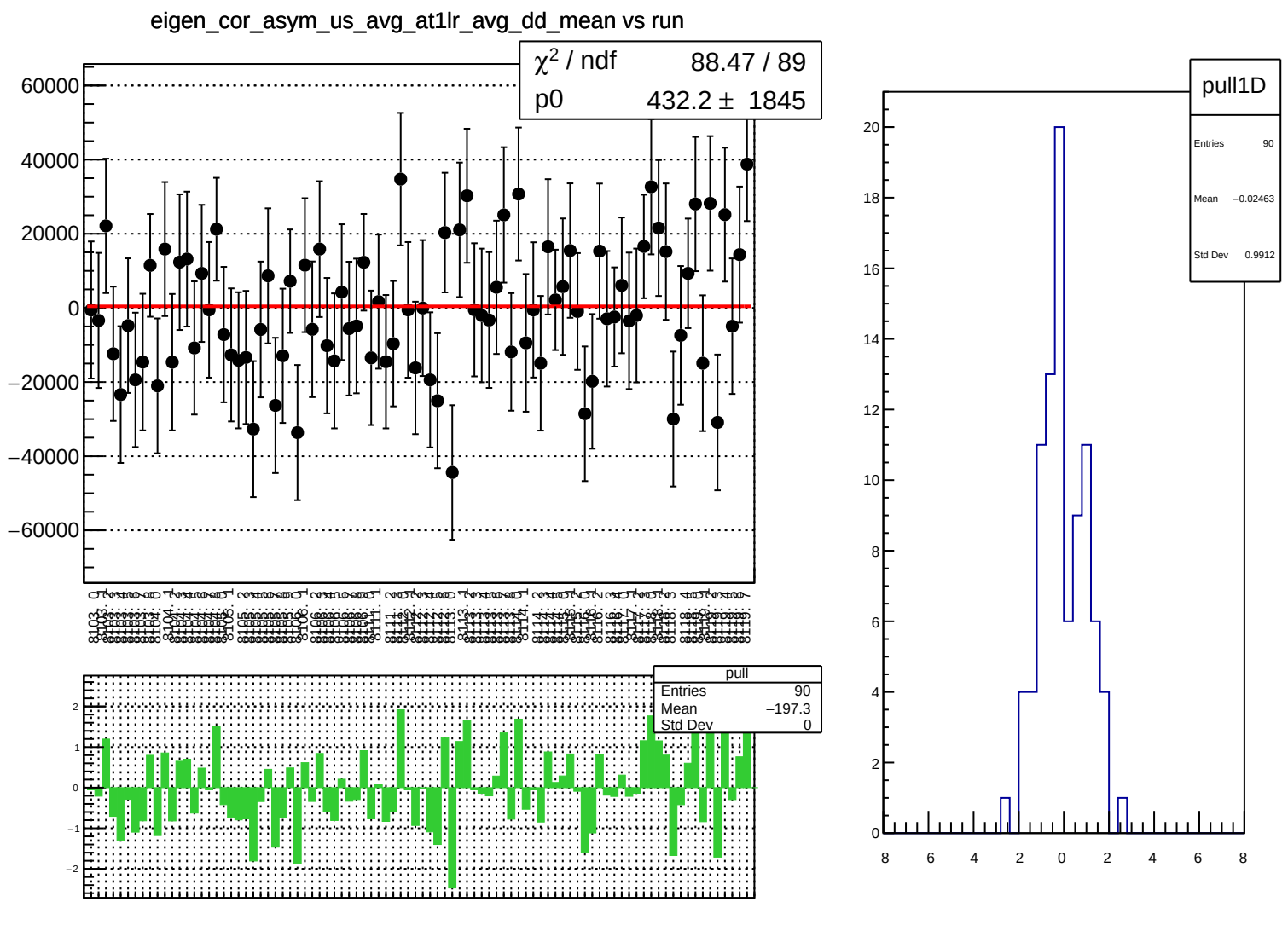

pull1D
Entries 90
Mean −0.02463
Std Dev 0.9912
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

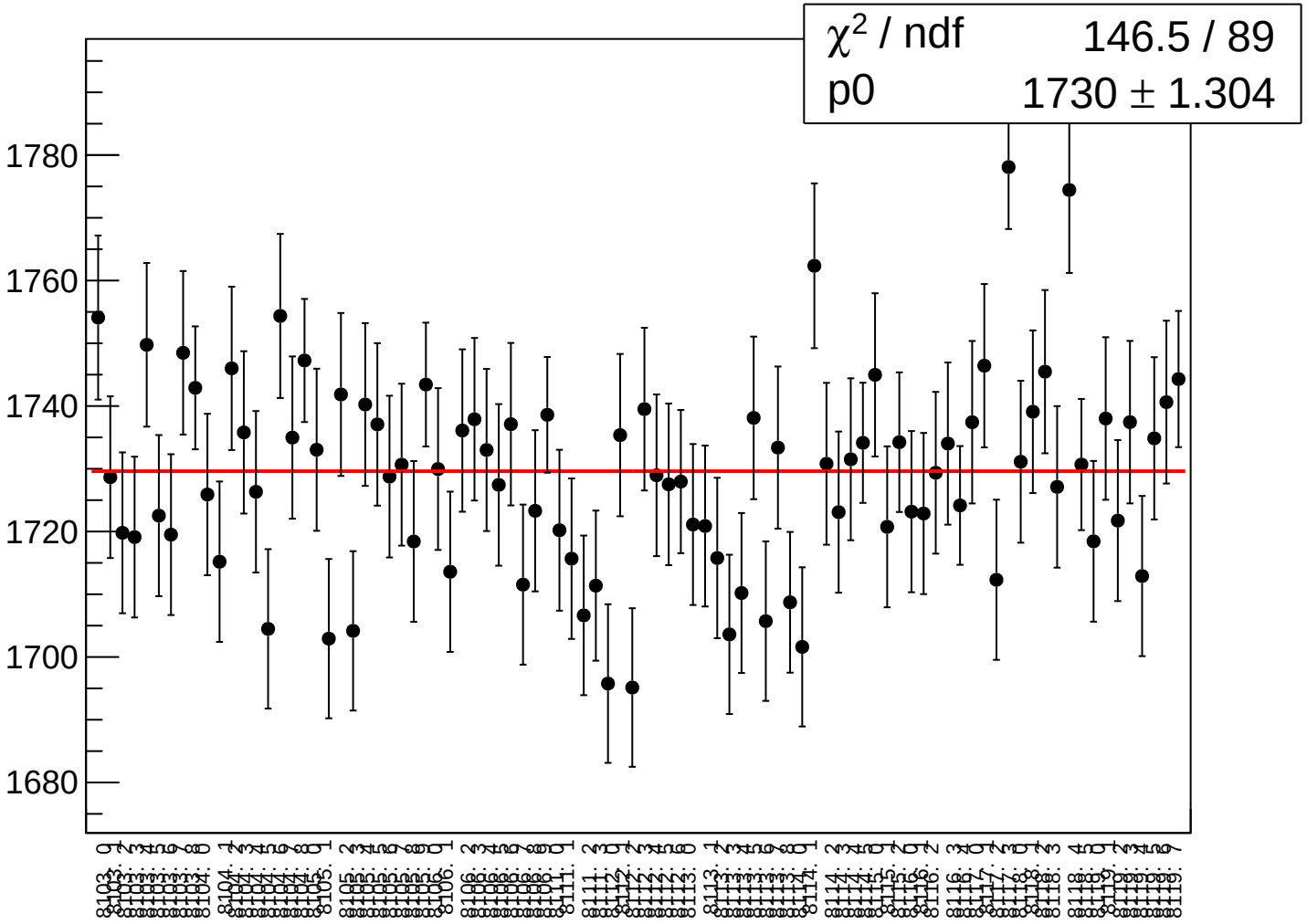

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 146.5 / 89
p0 1730 ± 1.304
1780
1760
1740
1720
1700
1680

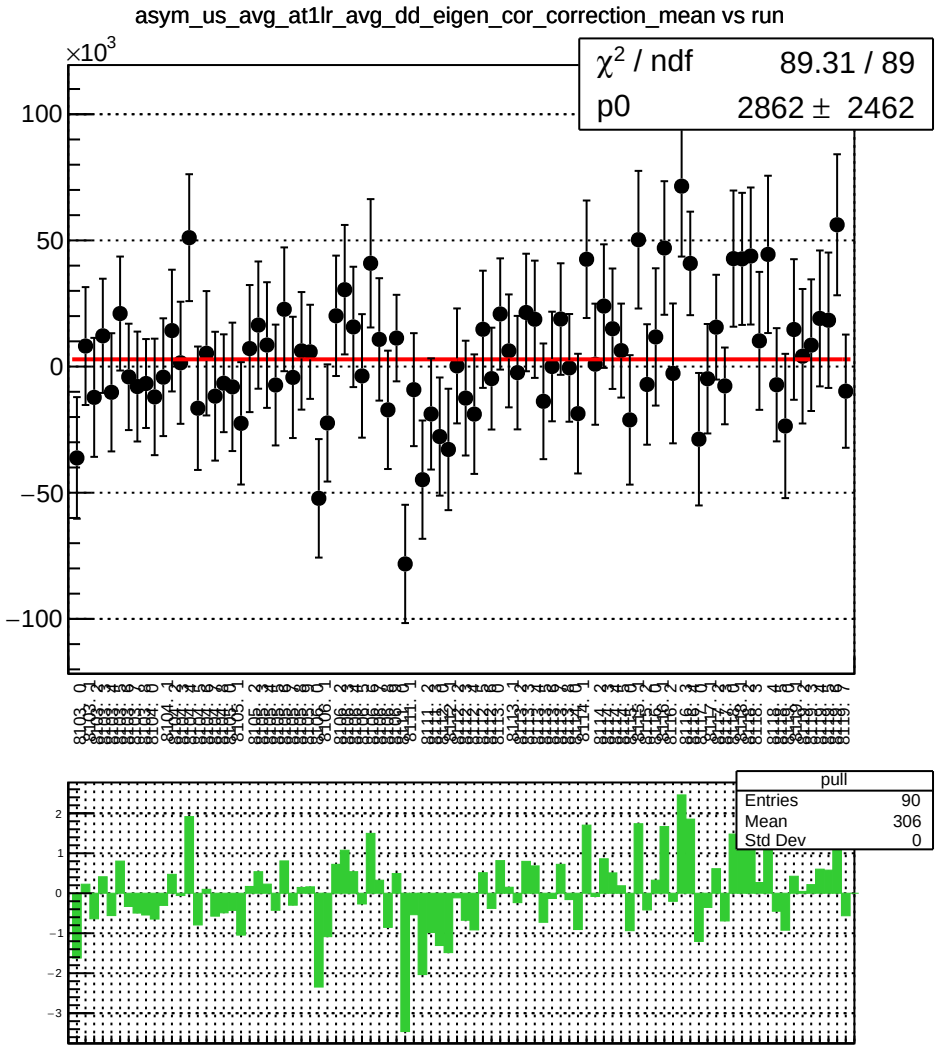

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.31 / 89
p0 2862 ± 2462
100
50
0
−50
−100
pull
Entries 90
Mean 306
Std Dev 0
2
1
0
−1
−2
−3

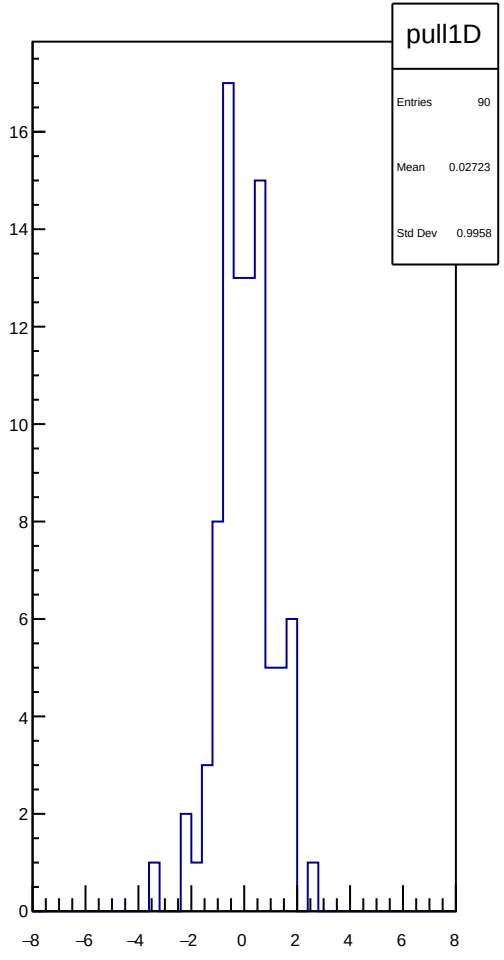

pull1D
Entries 90
Mean 0.02723
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

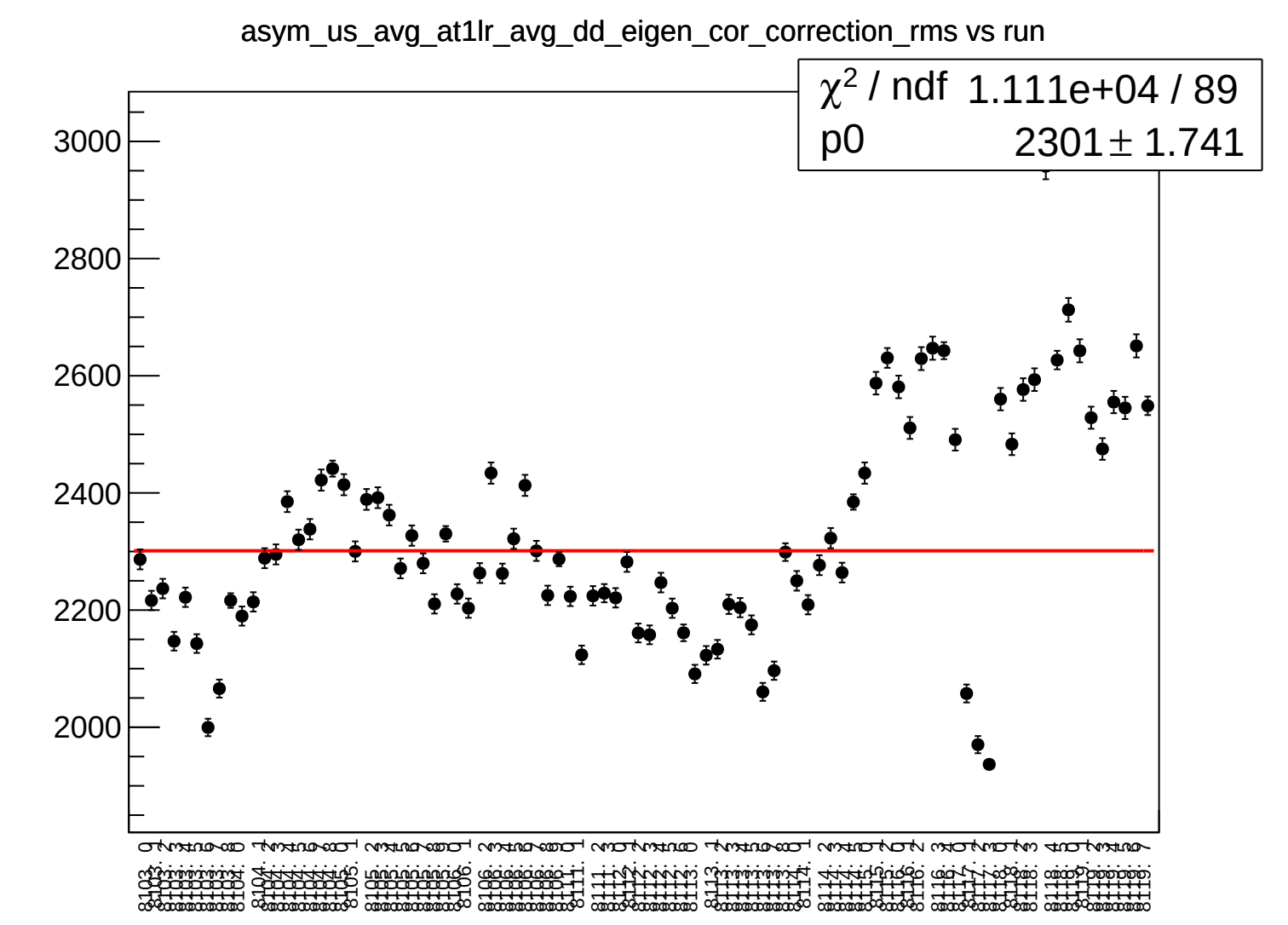

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.111e+04 / 89
p0 2301 ± 1.741
3000
2800
2600
2400
2200
2000

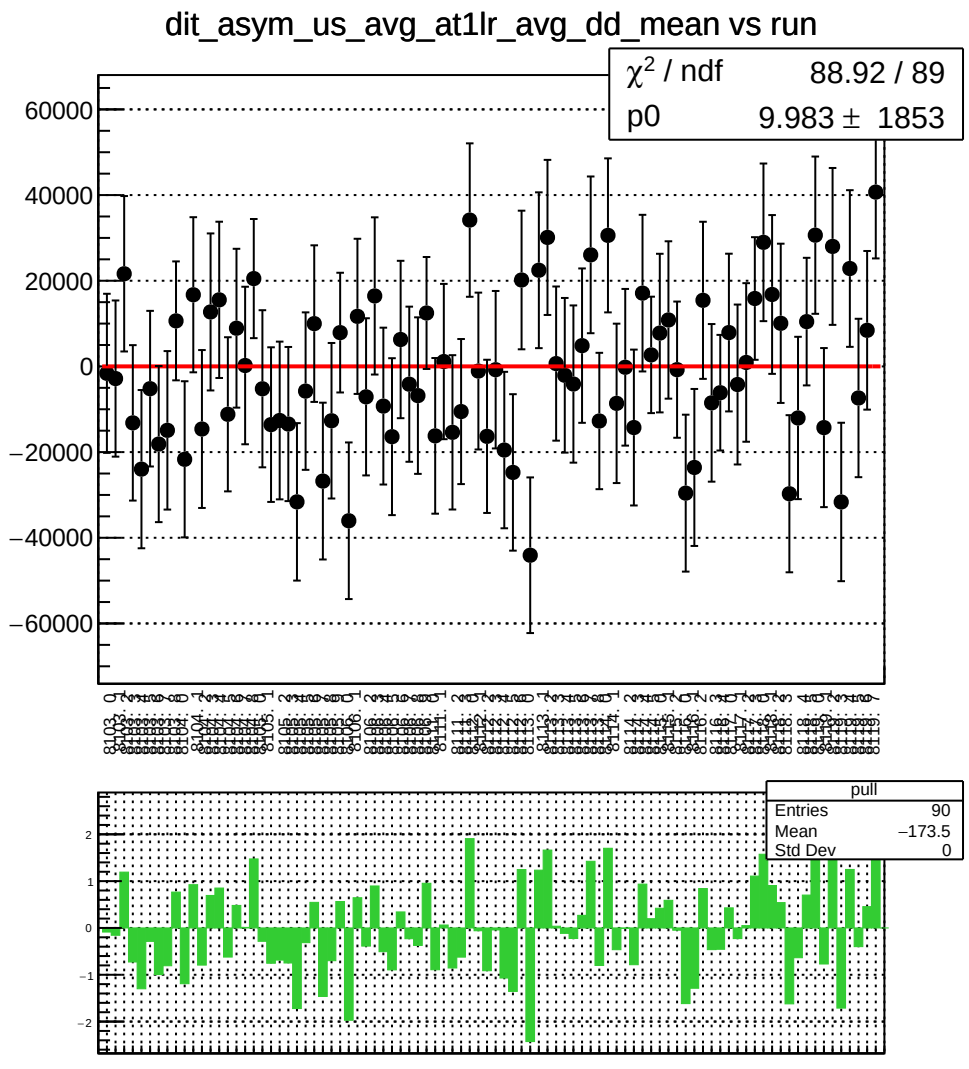

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.47 / 89
p0 432.2 ± 1845
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −197.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.02463
Std Dev 0.9912
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

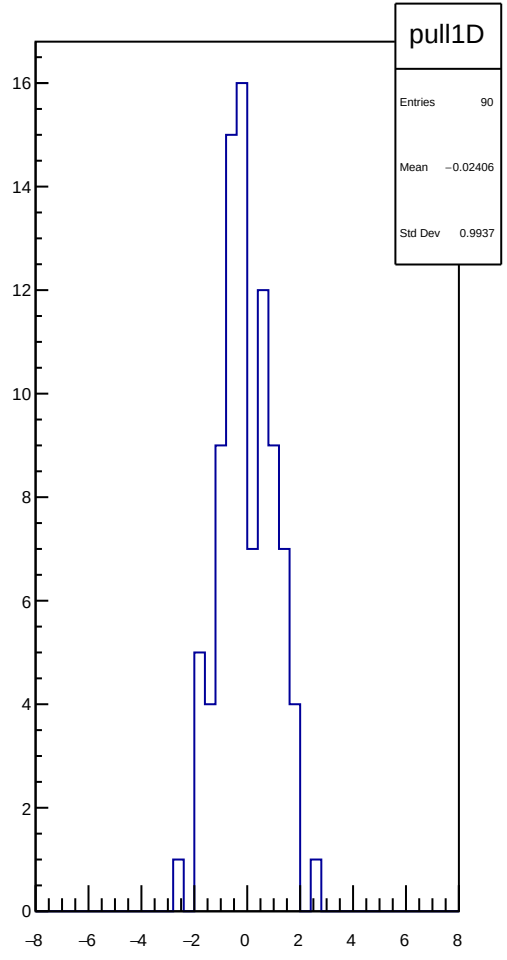

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 146.5 / 89
p0 1730 ± 1.304
1780
1760
1740
1720
1700
1680

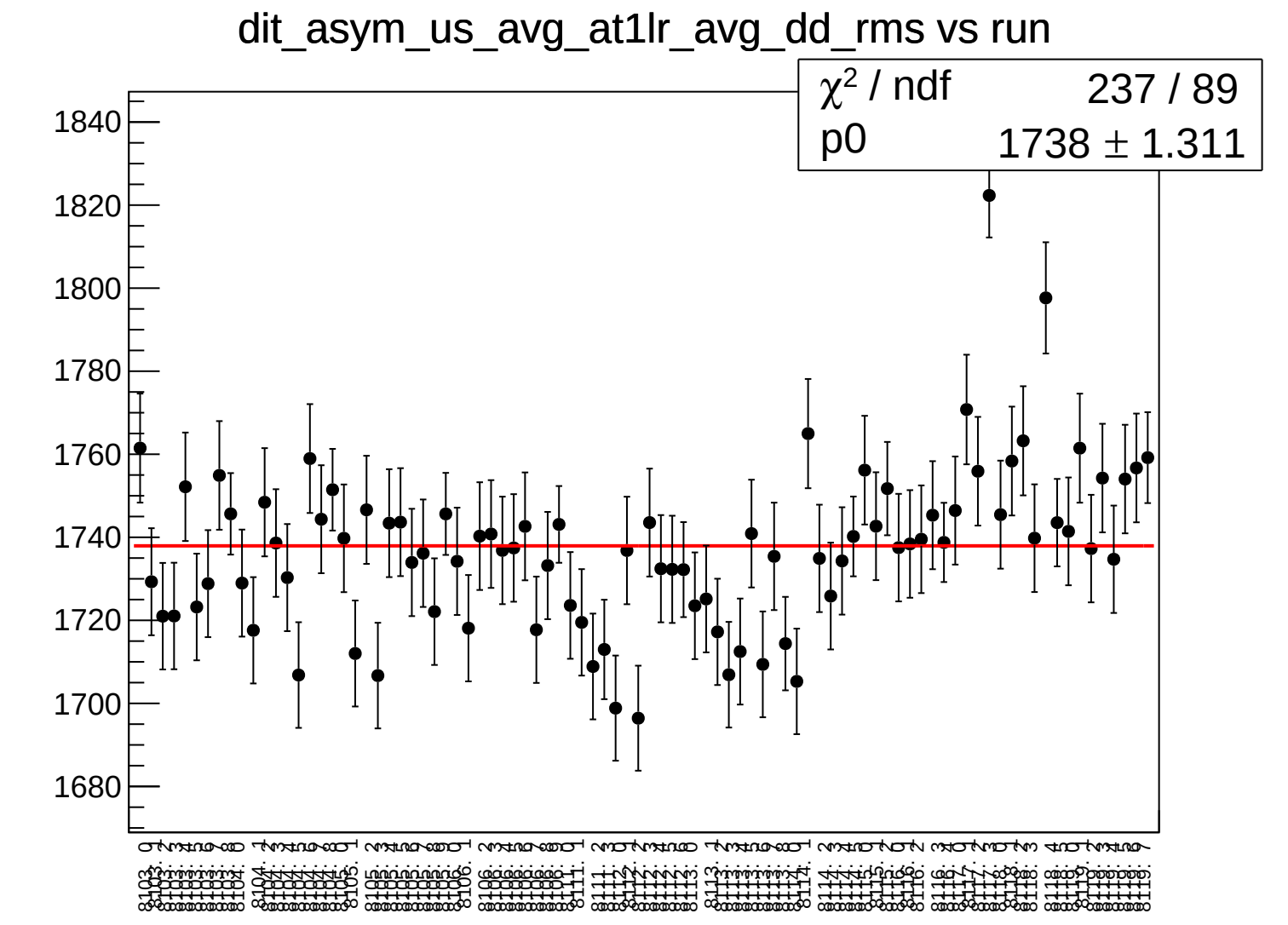

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.31 / 89
p0 2862 ± 2462
100
50
0
−50
−100
pull
Entries 90
Mean 306
Std Dev 0
2
1
0
−1
−2
−3

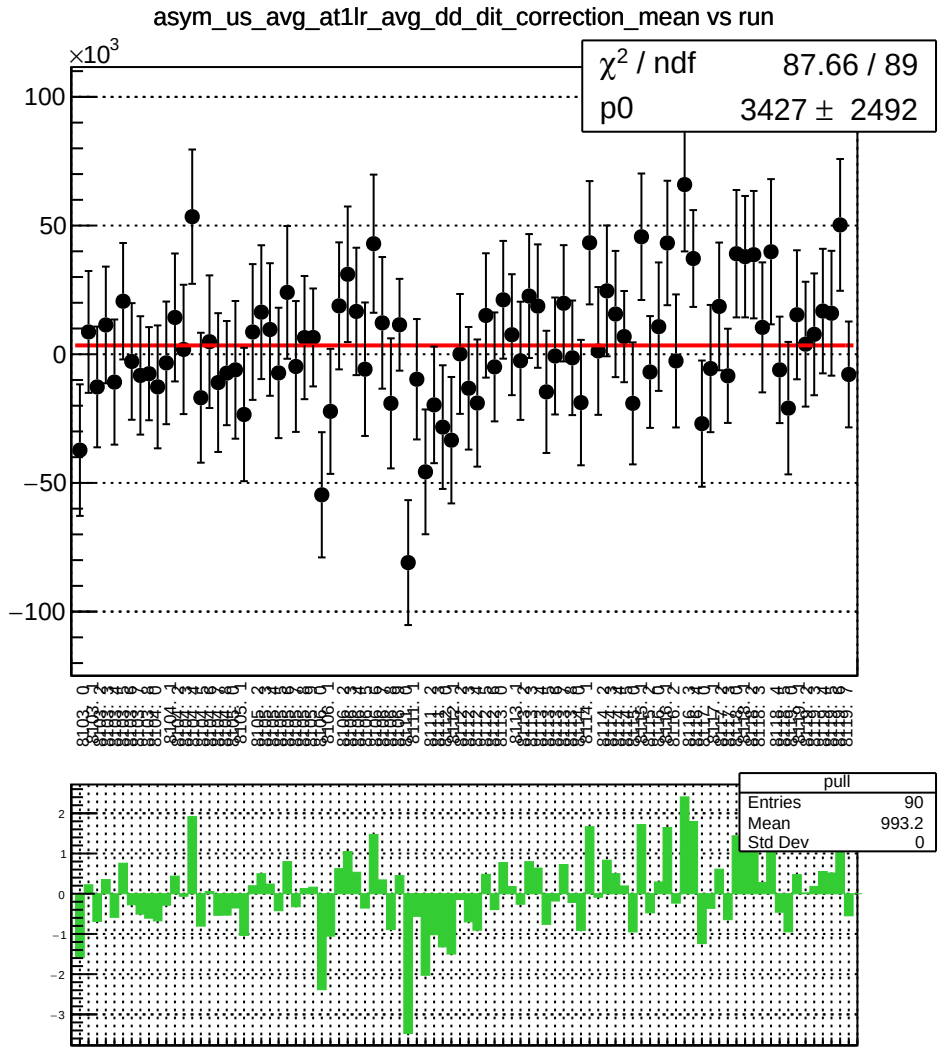

pull1D
Entries 90
Mean 0.02723
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

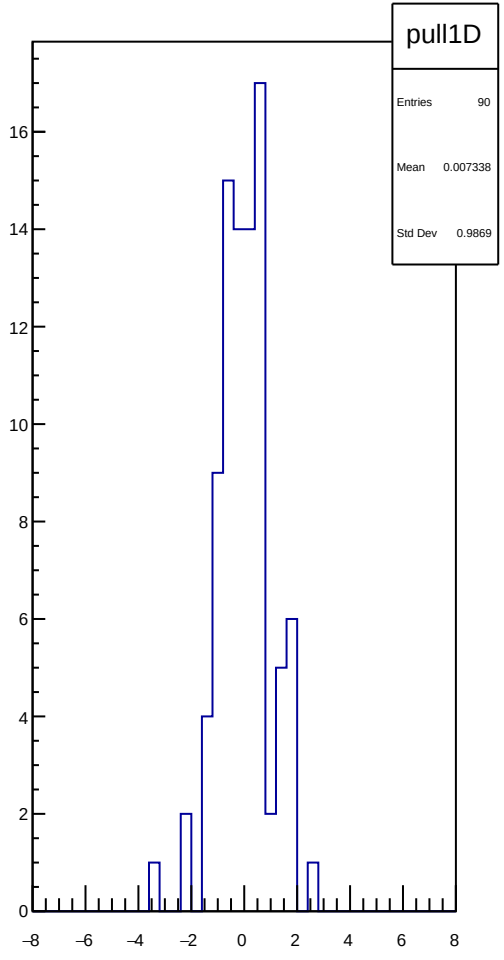

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.111e+04 / 89
p0 2301 ± 1.741
3000
2800
2600
2400
2200
2000

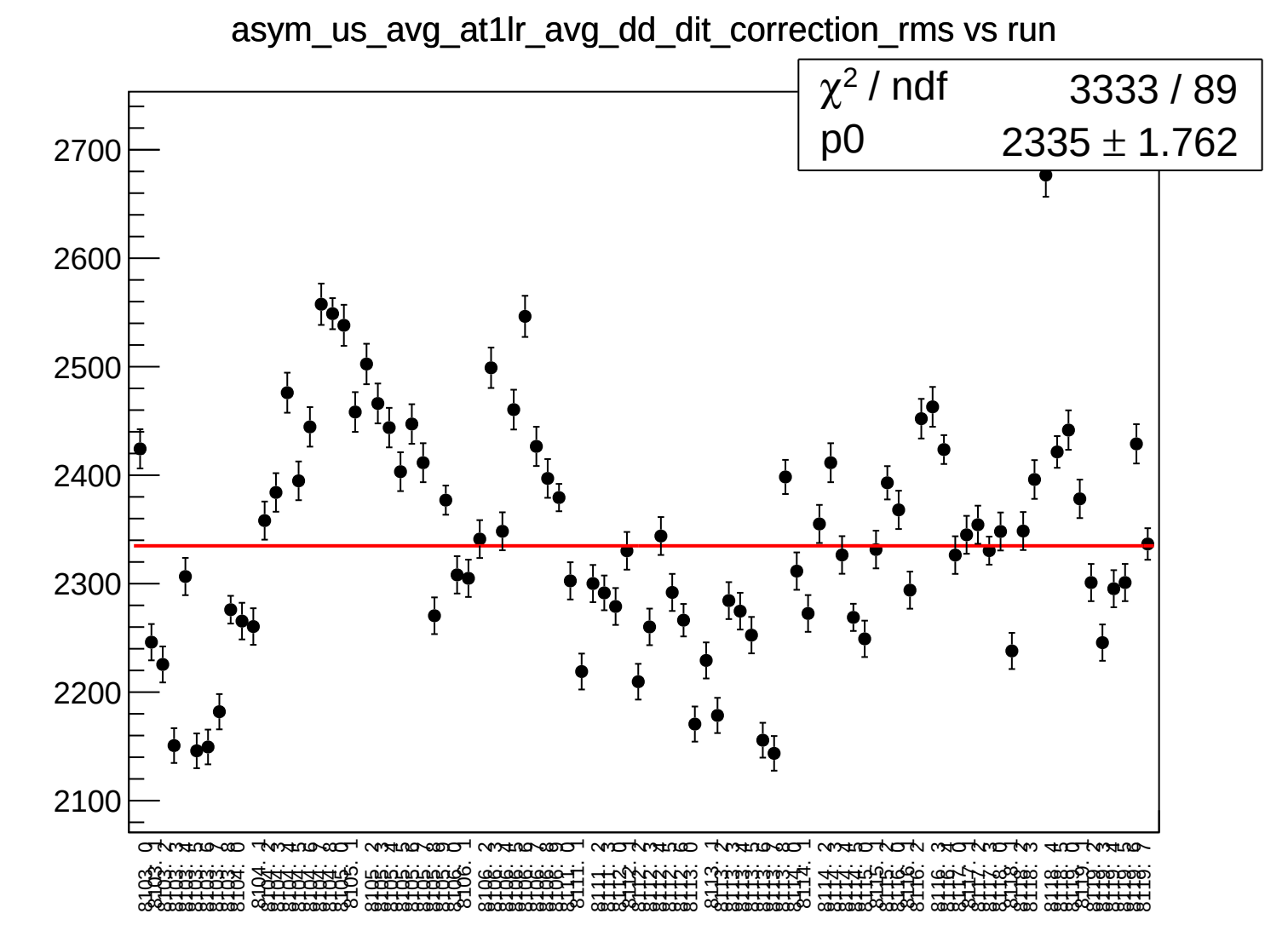

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.92 / 89
p0 9.983 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −173.5
Std Dev 0
2
1
0
−1
−2

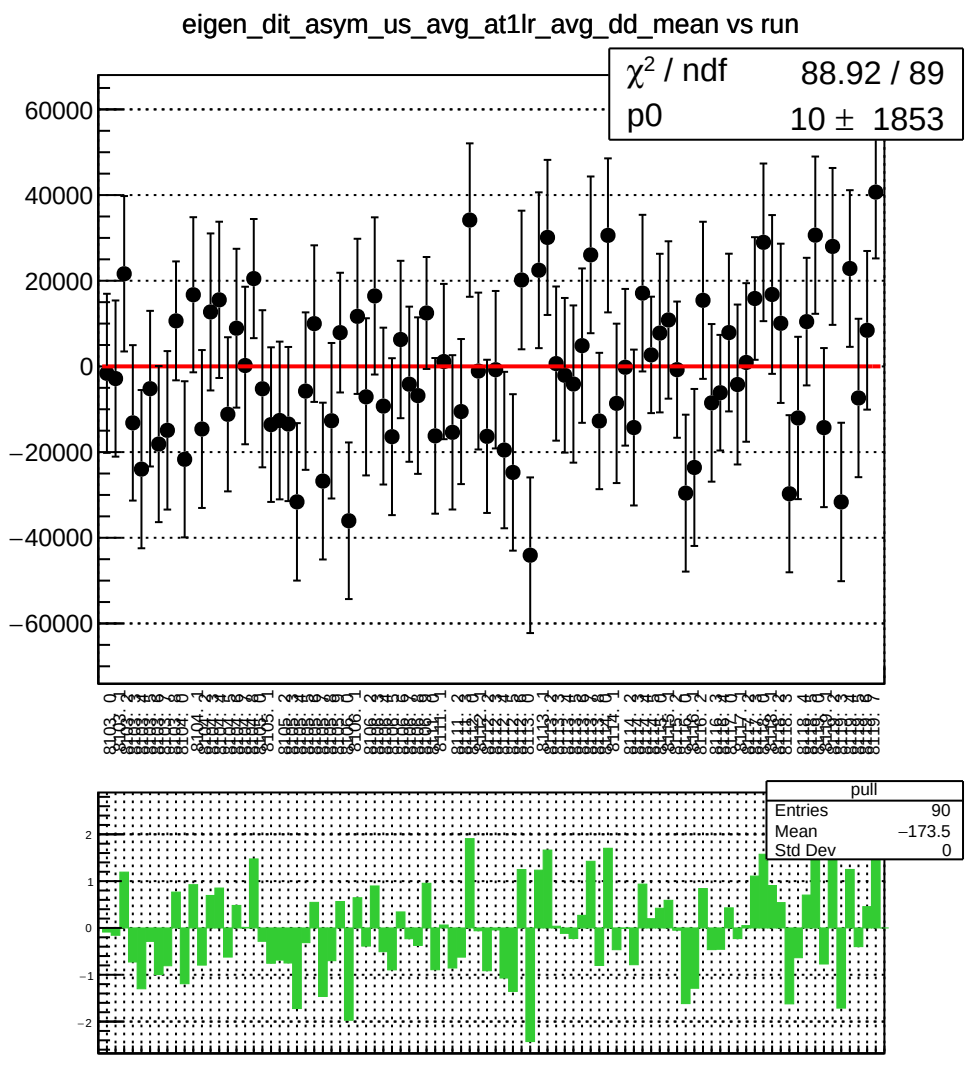

pull1D
Entries 90
Mean −0.02406
Std Dev 0.9937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

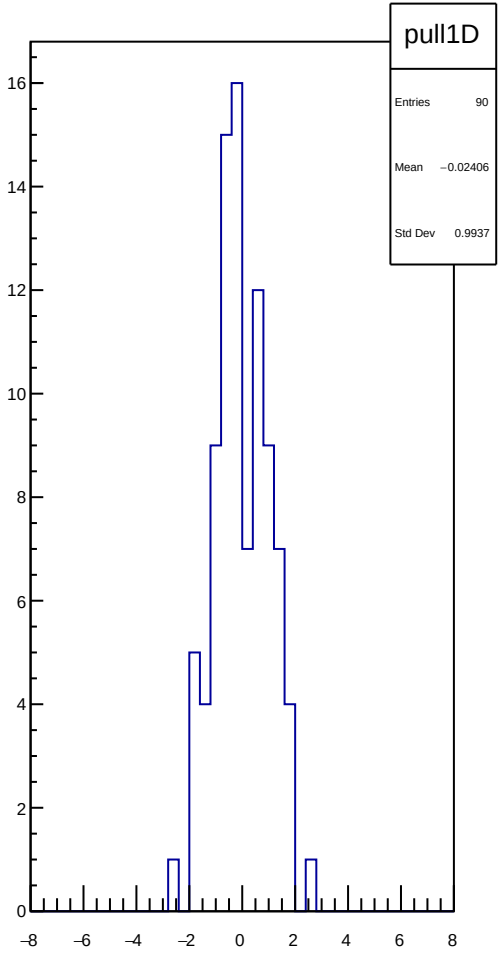

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 237 / 89
p0 1738 ± 1.311
1840
1820
1800
1780
1760
1740
1720
1700
1680

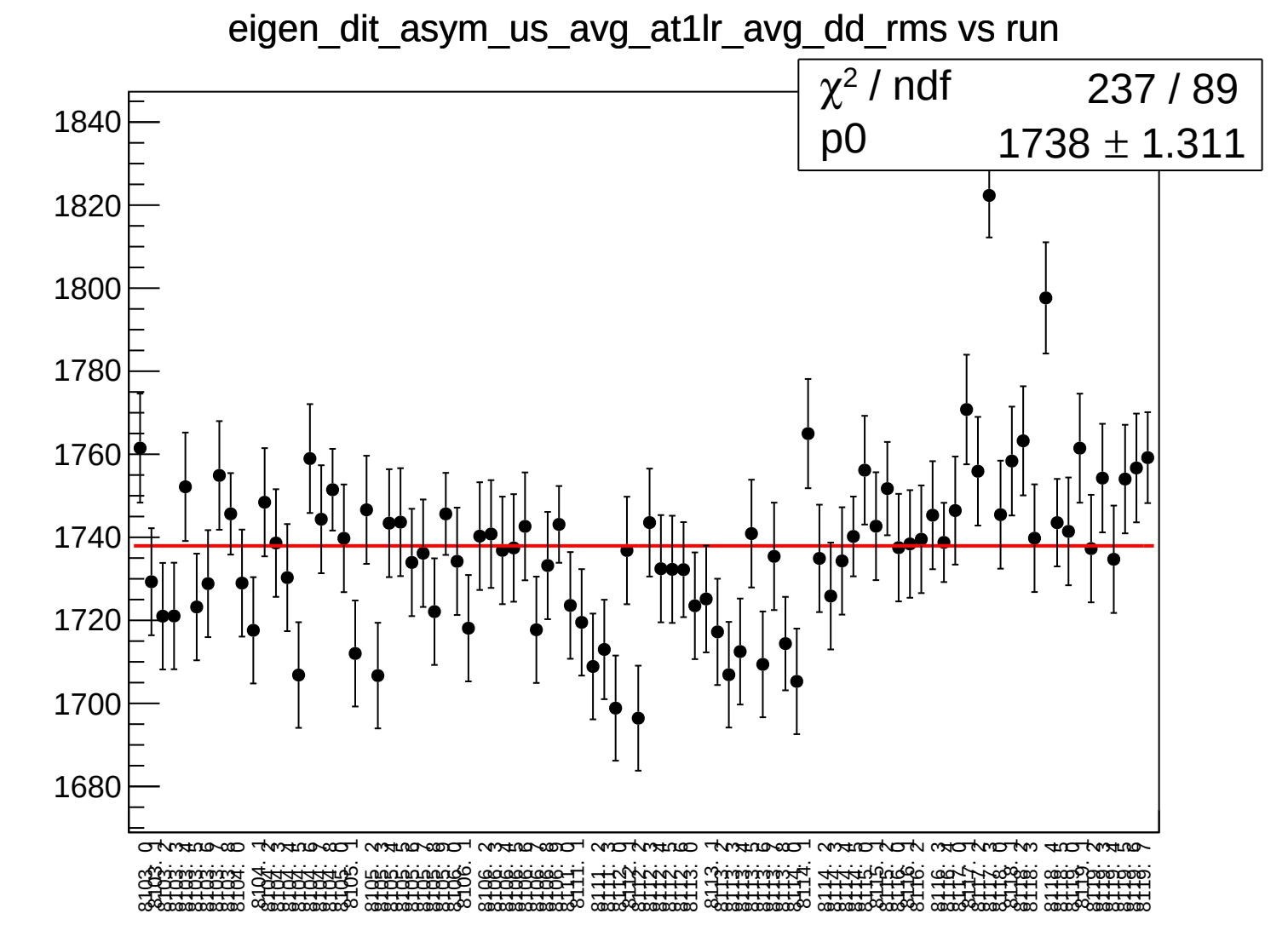

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.66 / 89
p0 3427 ± 2492
pull
Entries 90
Mean 993.2
Std Dev 0

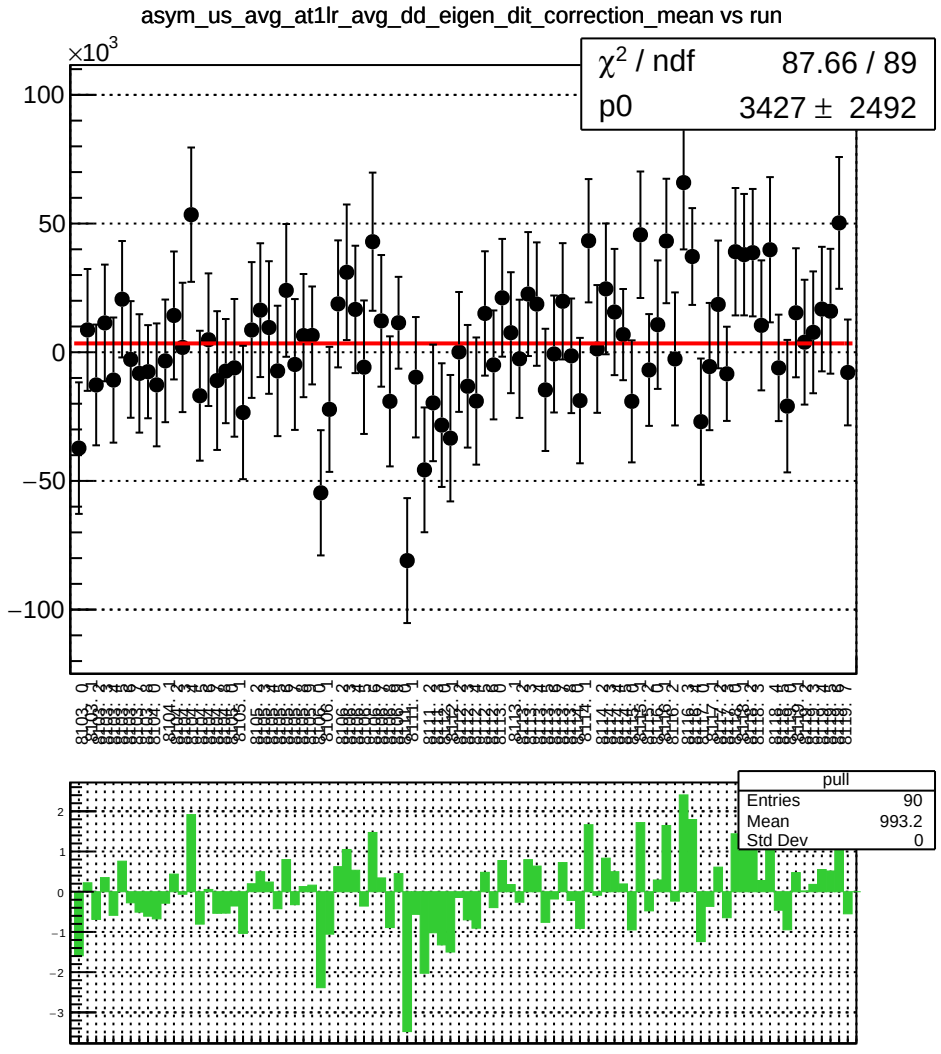

pull1D
Entries 90
Mean 0.007338
Std Dev 0.9869

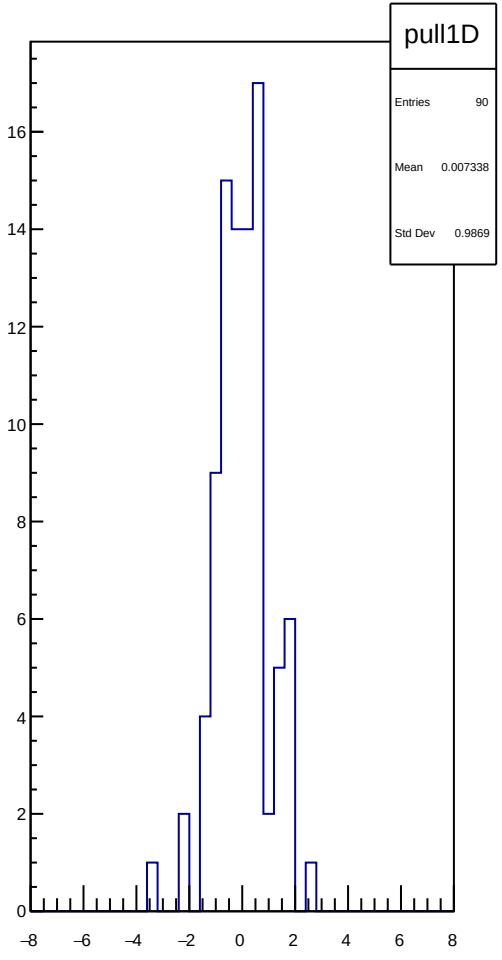

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 3333 / 89
p0 2335 ± 1.762
2700
2600
2500
2400
2300
2200
2100


eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 88.92 / 89
p0 10 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −173.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.02406
Std Dev 0.9937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 237 / 89
p0 1738 ± 1.311
1840
1820
1800
1780
1760
1740
1720
1700
1680


asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.66 / 89
p0 3427 ± 2492
100
50
0
−50
−100
pull
Entries 90
Mean 993.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 90
Mean 0.007338
Std Dev 0.9869
16
14
12
10
8
6
4
2
0
−8
−6
−4
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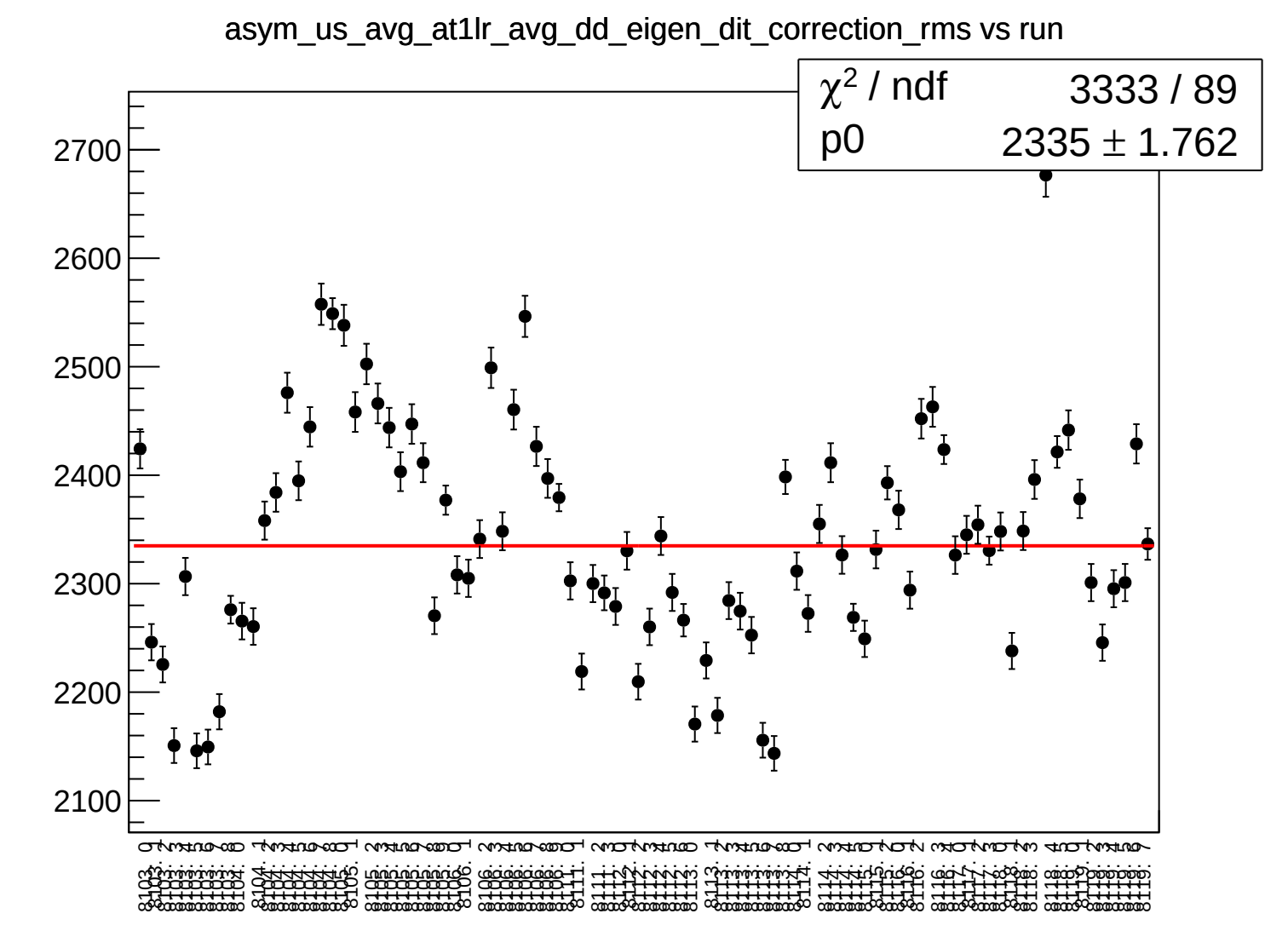
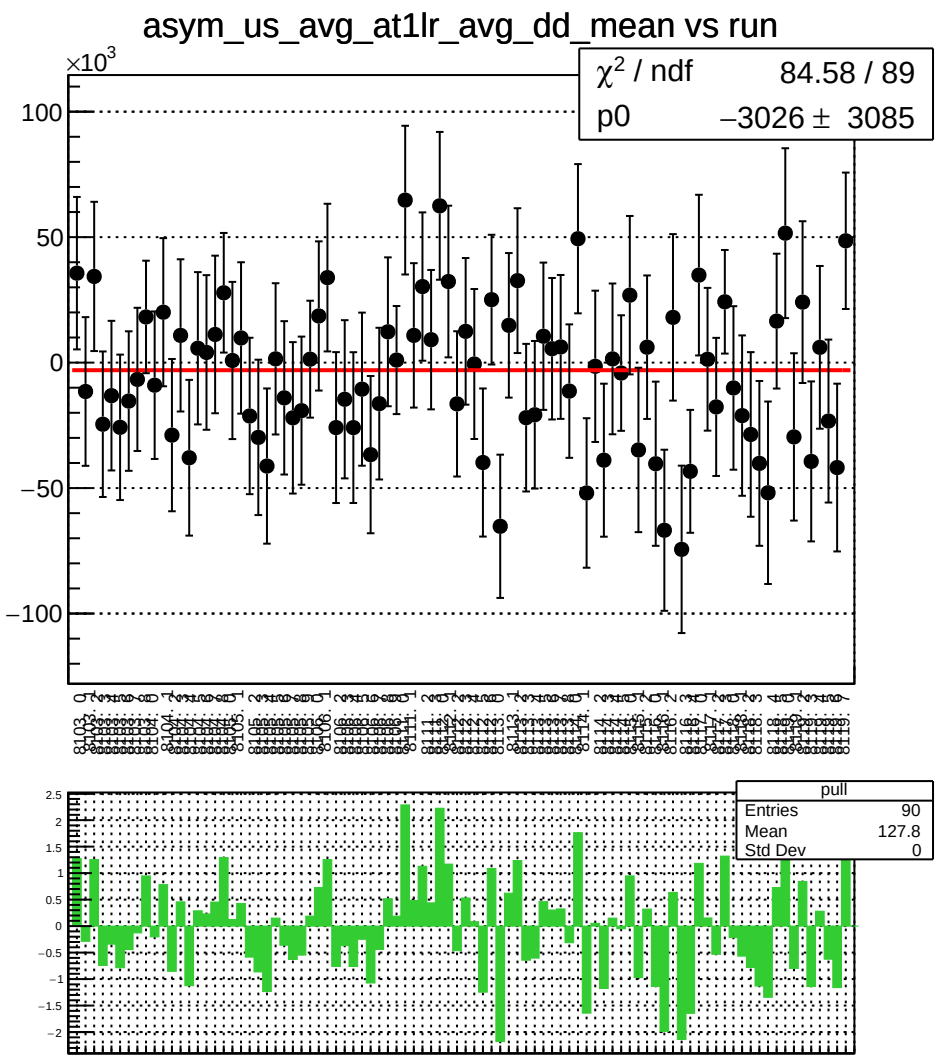
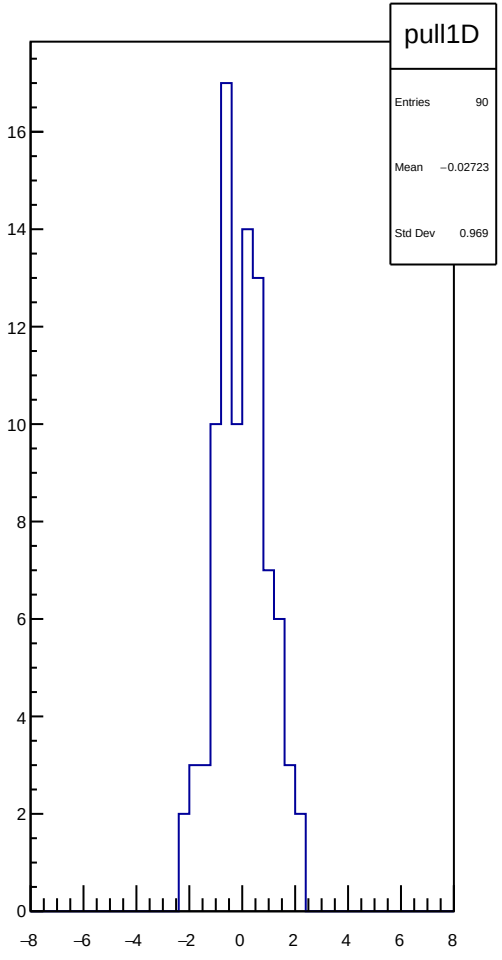
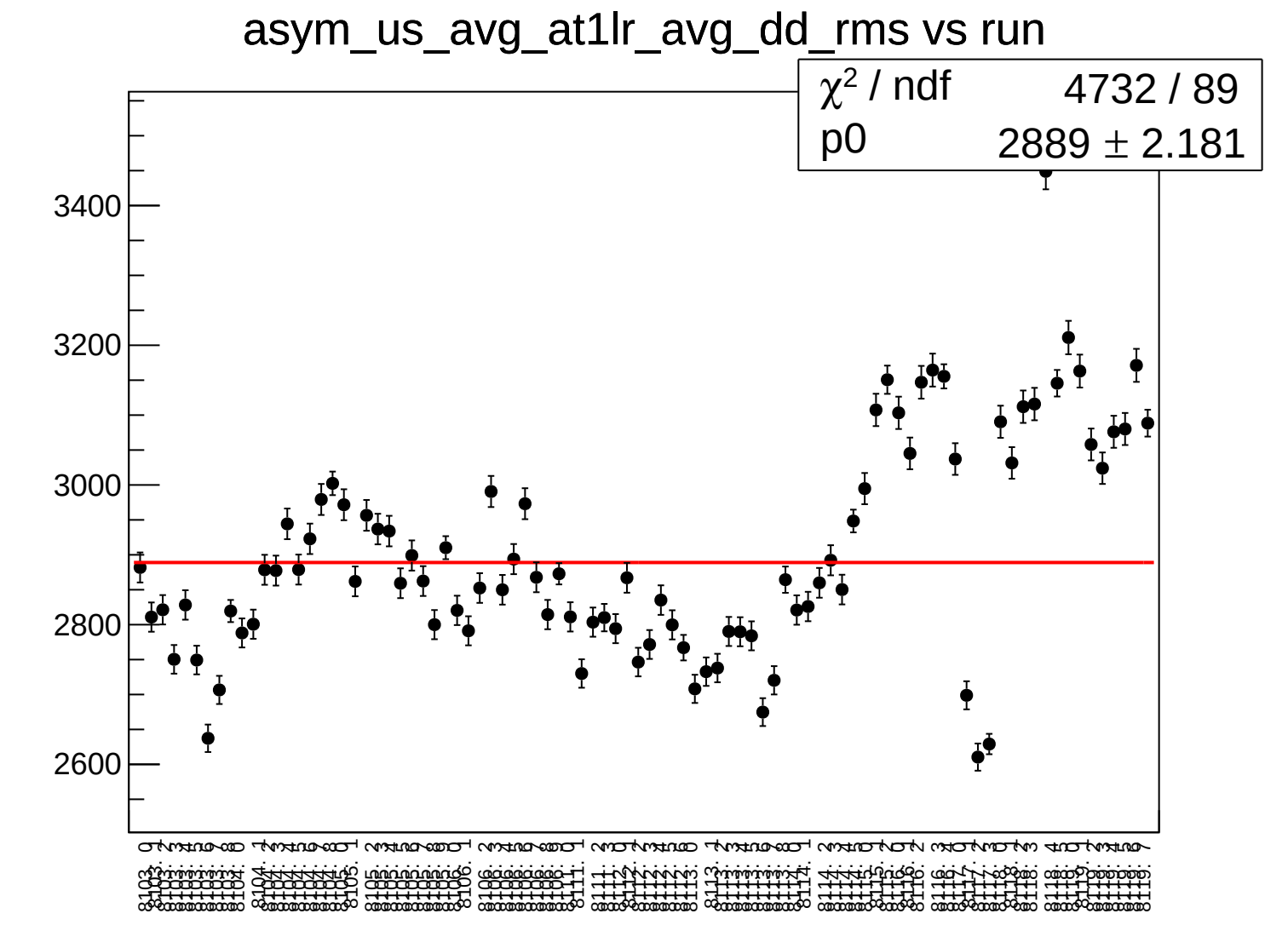
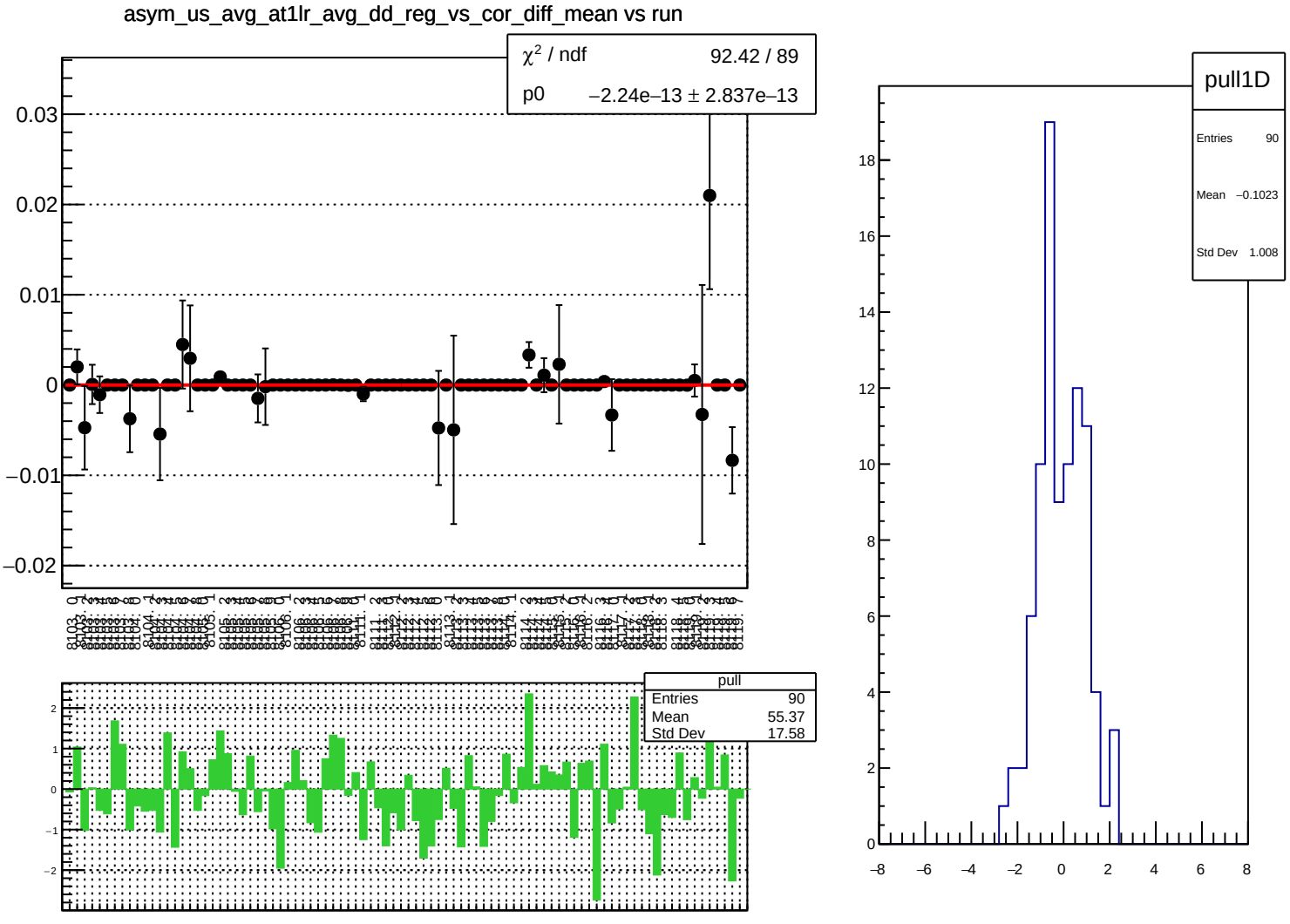
0
2
4
6
8

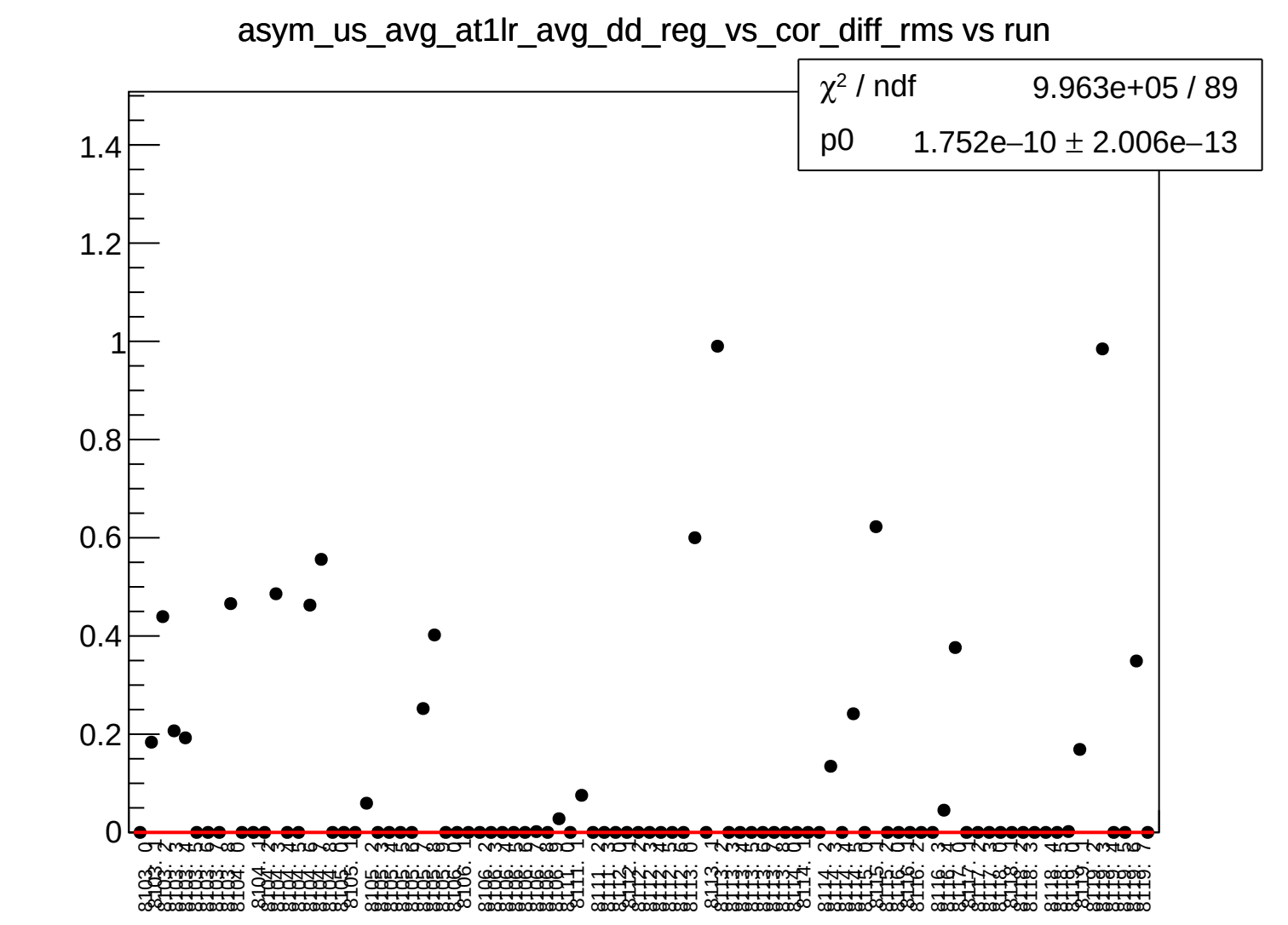

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3333 / 89
p0 2335 ± 1.762
2700
2600
2500
2400
2300
2200
2100

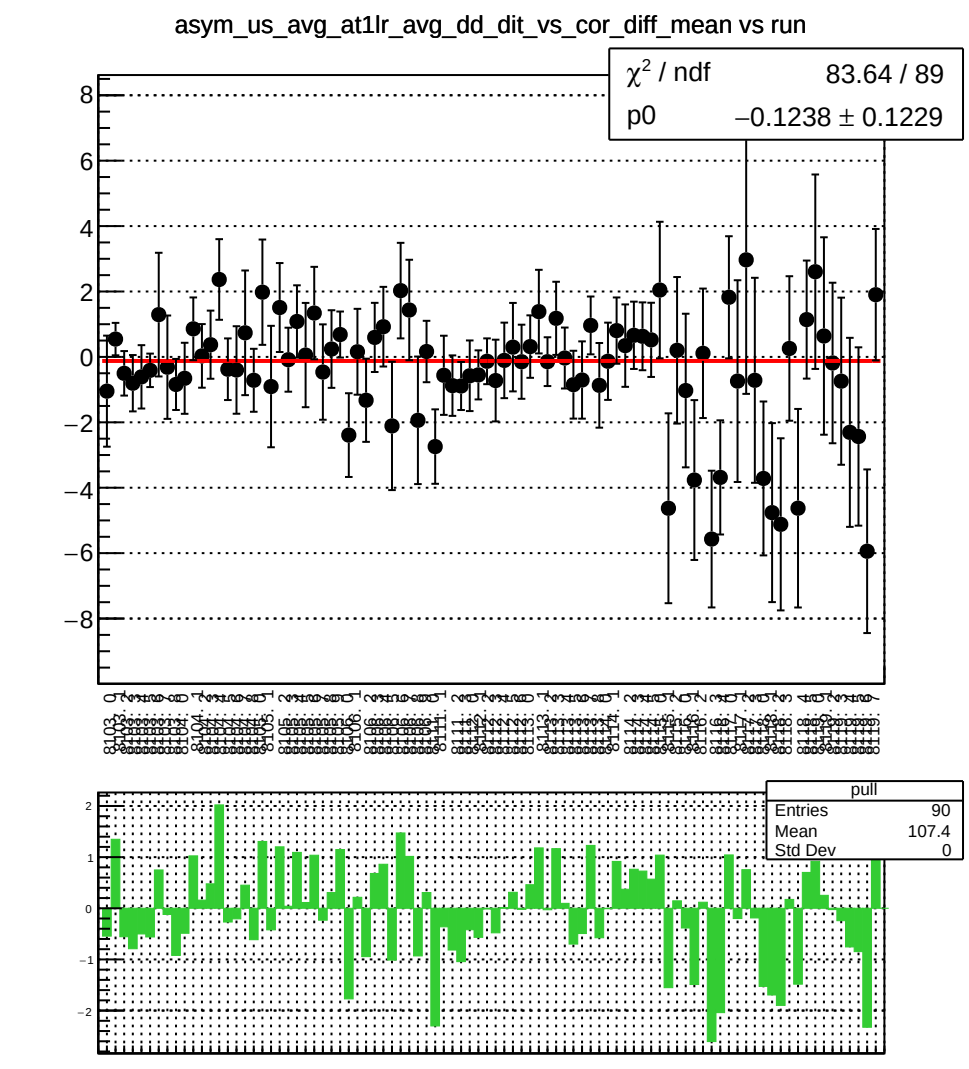

asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ² / ndf 84.58 / 89
p0 −3026 ± 3085
100
50
0
−50
−100
pull
Entries 90
Mean 127.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

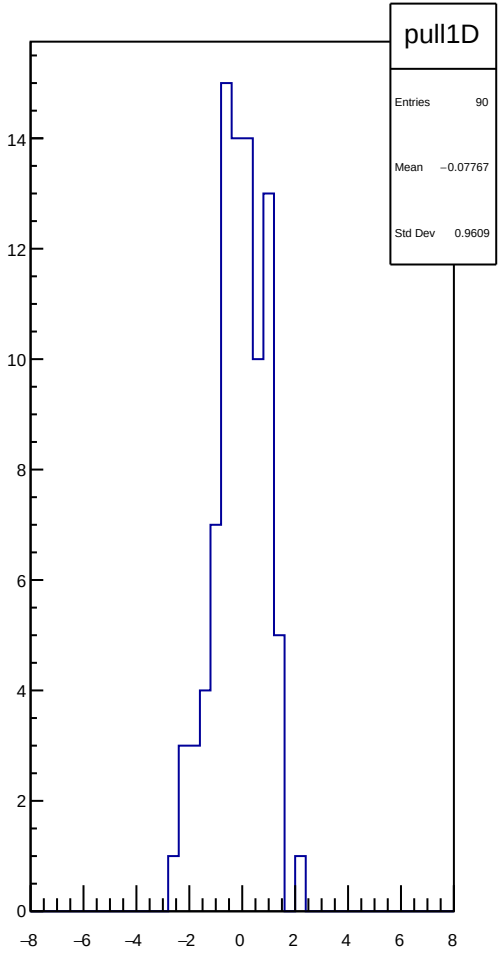

pull1D
Entries 90
Mean −0.02723
Std Dev 0.969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

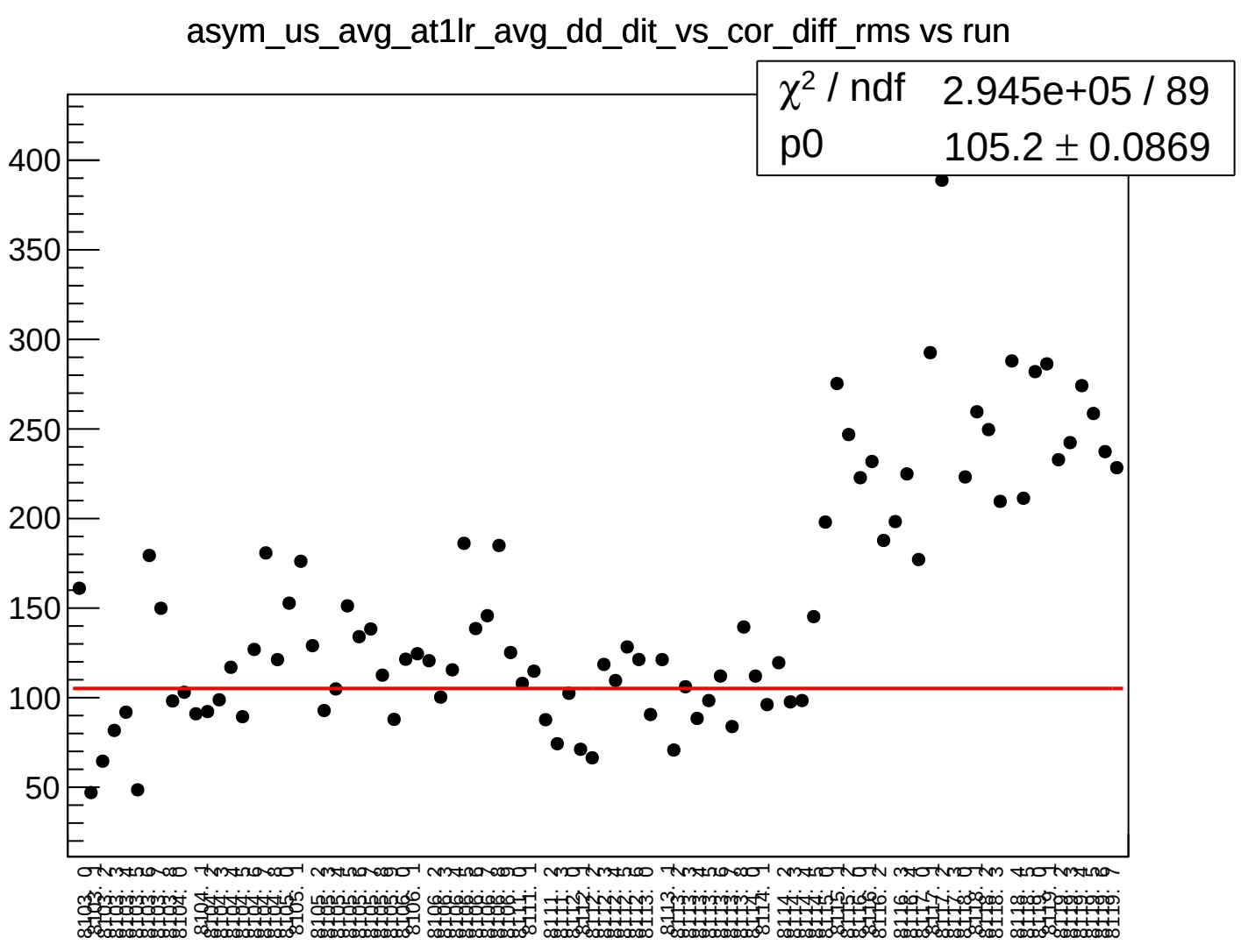

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 4732 / 89
p0 2889 ± 2.181
3400
3200
3000
2800
2600

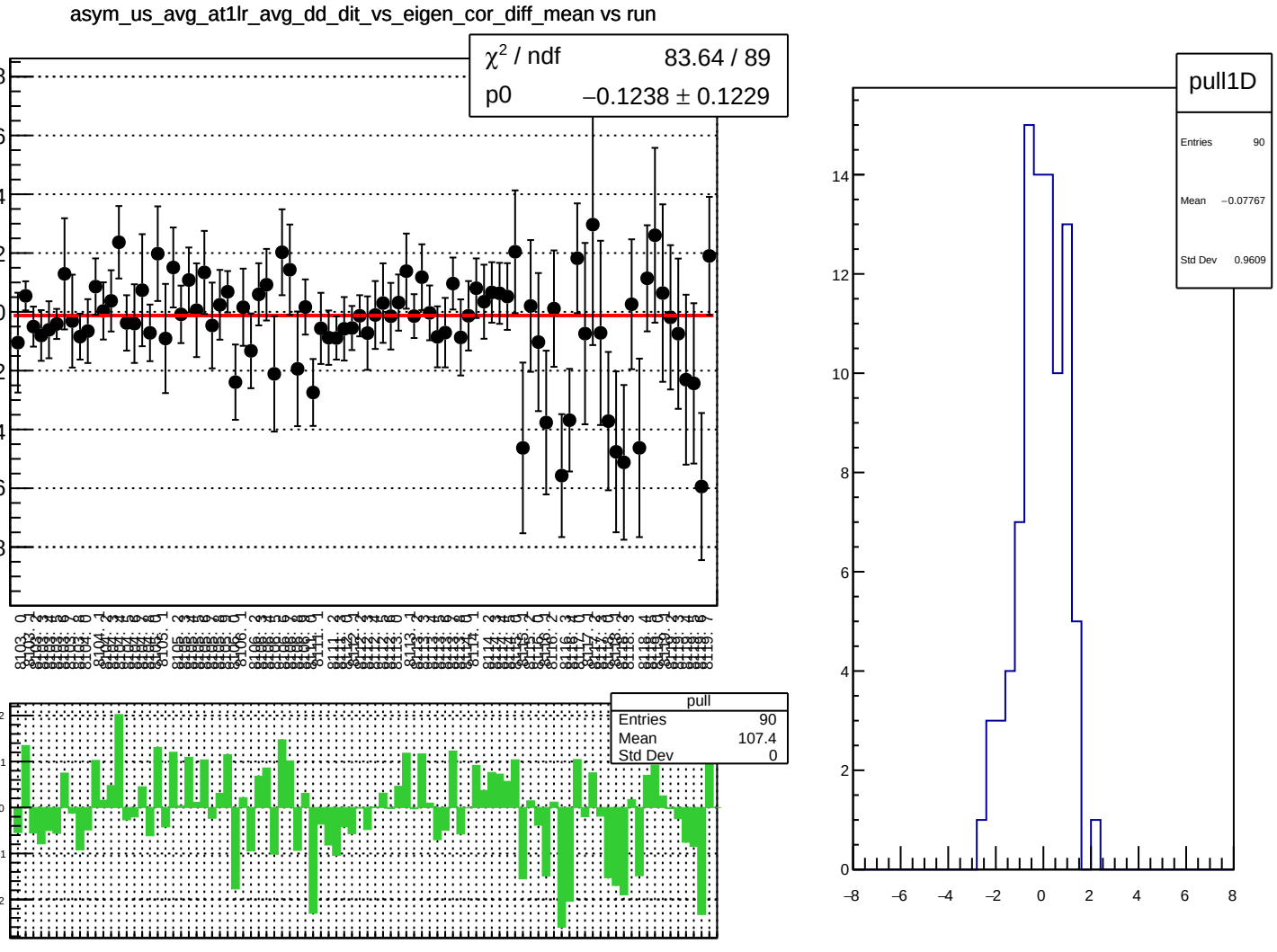

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.42 / 89
p0 −2.24e−13 ± 2.837e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean 55.37
Std Dev 17.58
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.1023
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

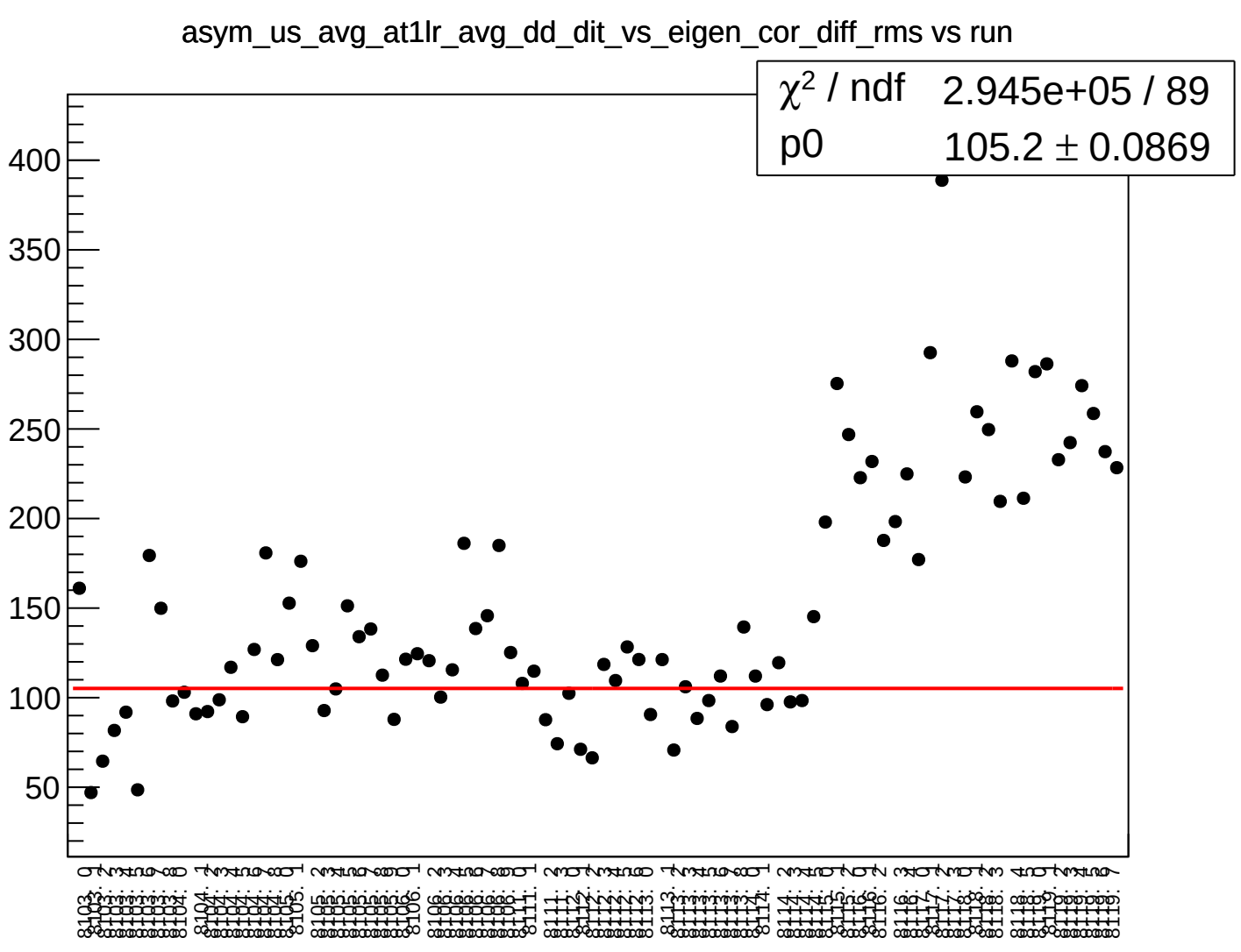

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.963e+05 / 89
p0 1.752e−10 ± 2.006e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

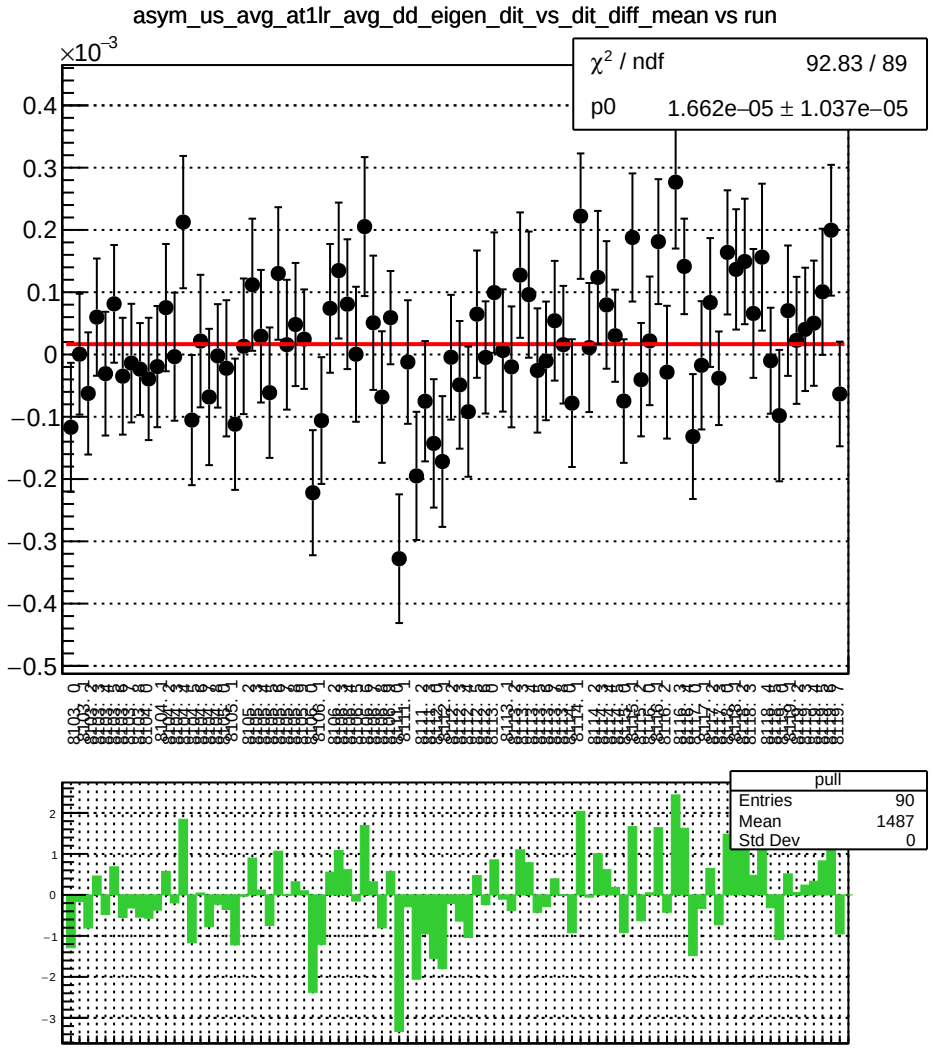

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.64 / 89
p0 −0.1238 ± 0.1229
pull
Entries 90
Mean 107.4
Std Dev 0

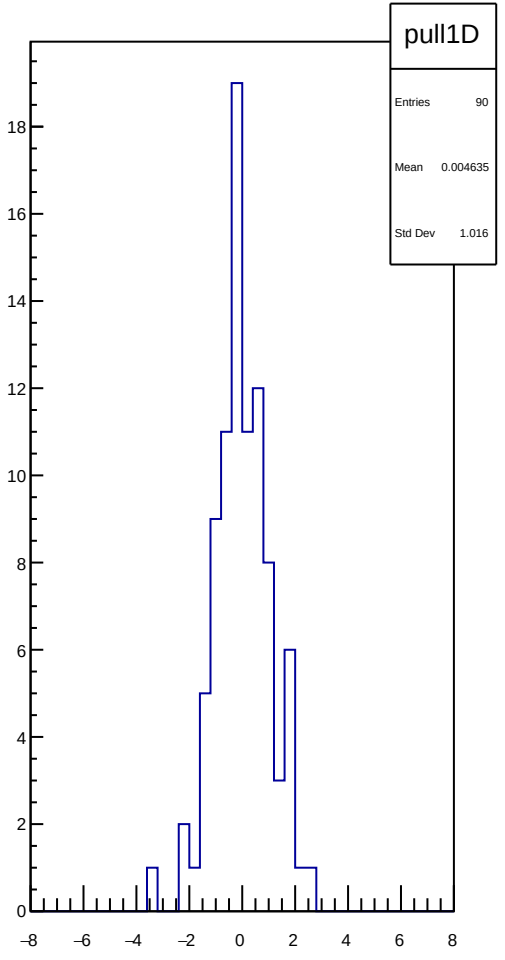

pull1D
Entries 90
Mean −0.07767
Std Dev 0.9609

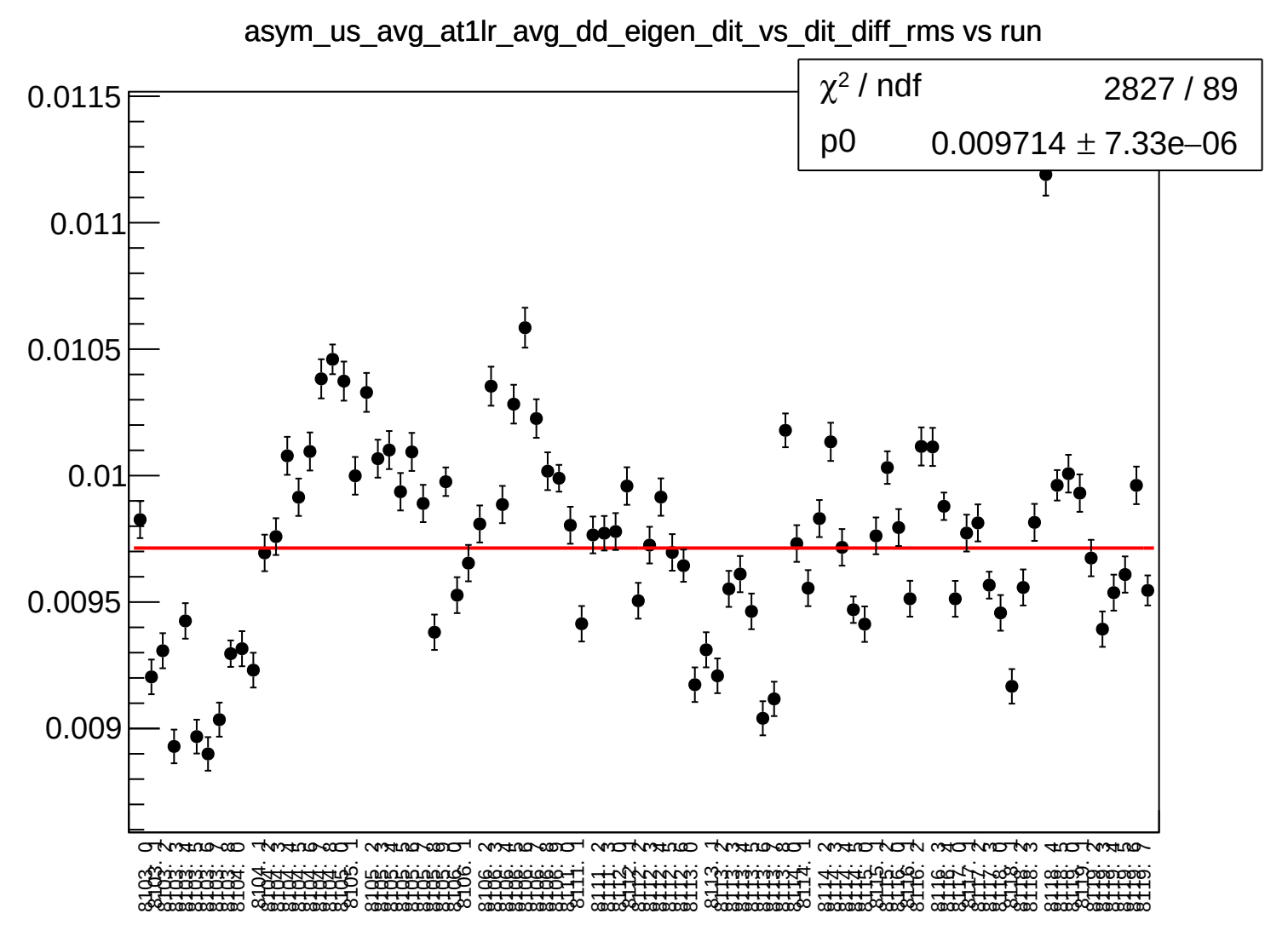

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.945e+05 / 89
p0 105.2 ± 0.0869
400
350
300
250
200
150
100
50

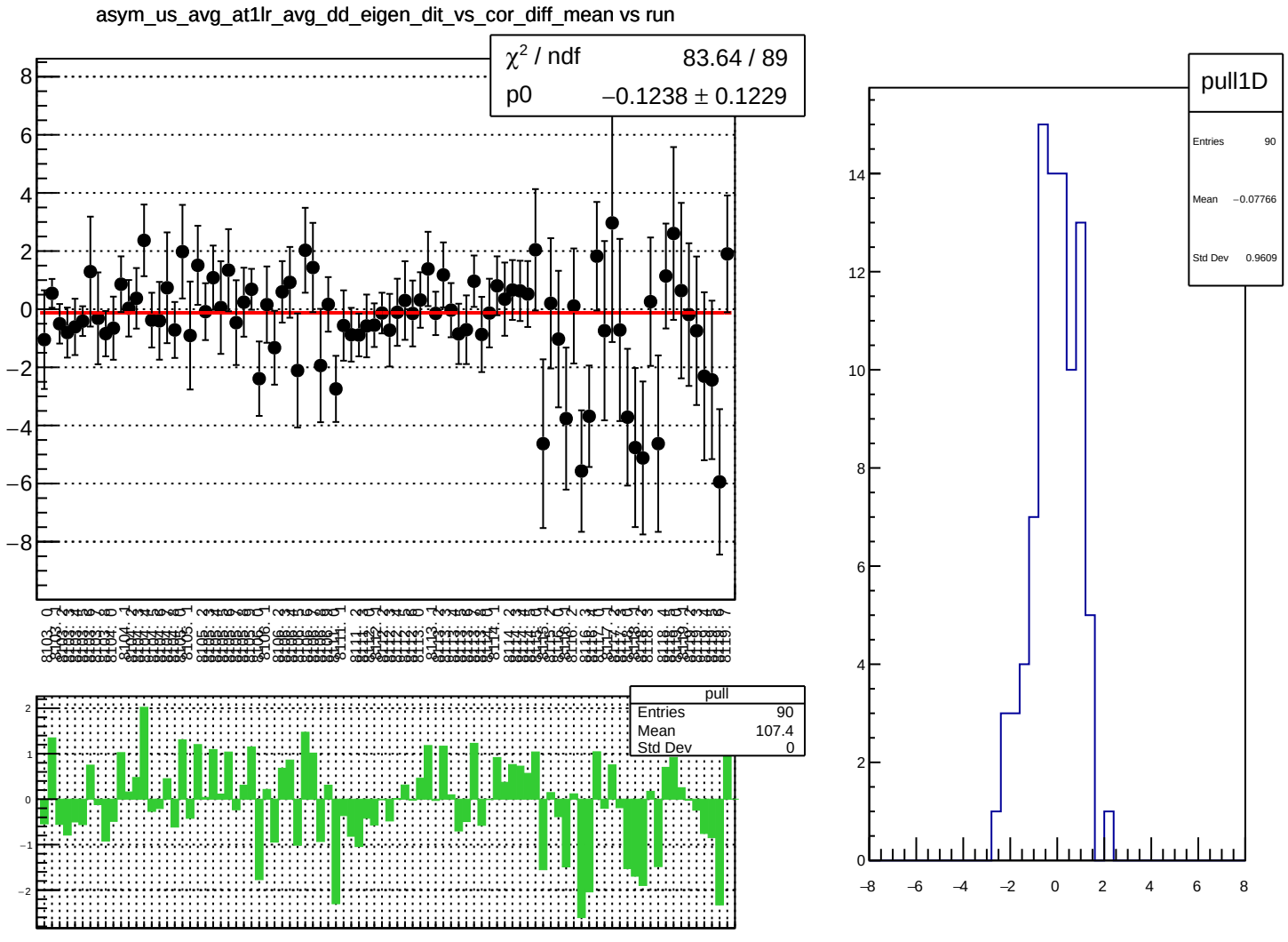

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.64 / 89
p0 −0.1238 ± 0.1229
pull
Entries 90
Mean 107.4
Std Dev 0
pull1D
Entries 90
Mean −0.07767
Std Dev 0.9609

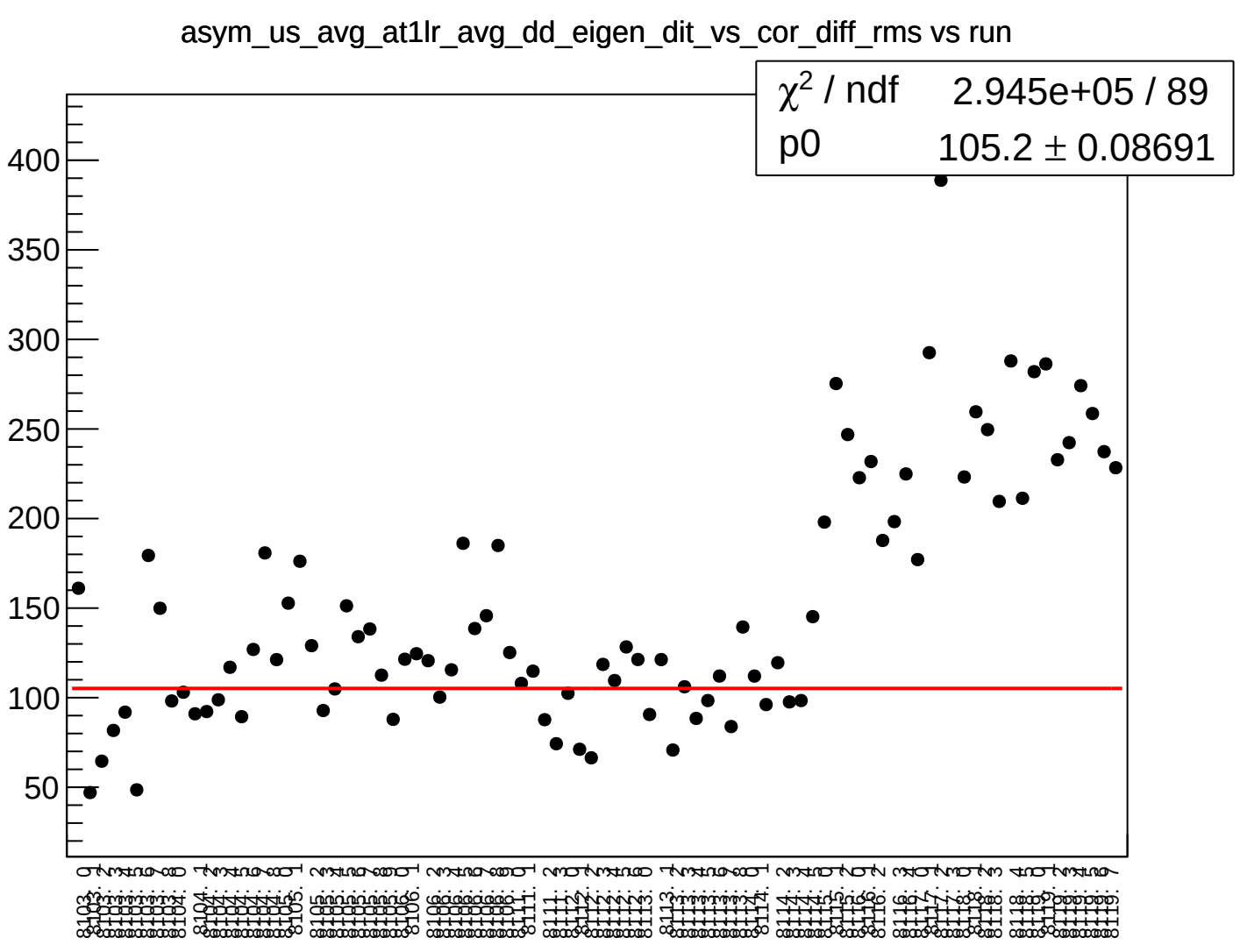

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.945e+05 / 89
p0 105.2 ± 0.0869
400
350
300
250
200
150
100
50

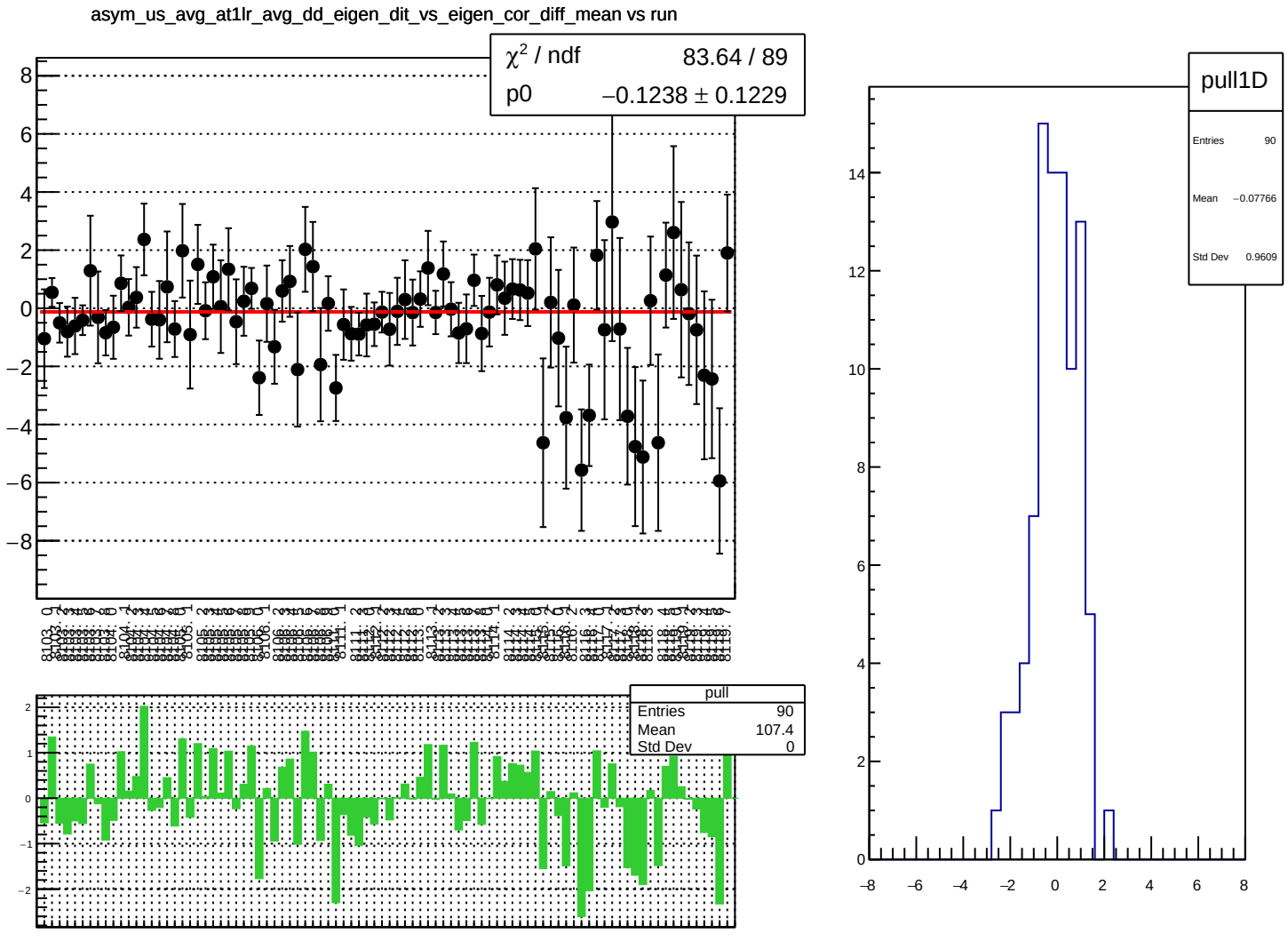

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.83 / 89
p0 1.662e−05 ± 1.037e−05
pull
Entries 90
Mean 1487
Std Dev 0

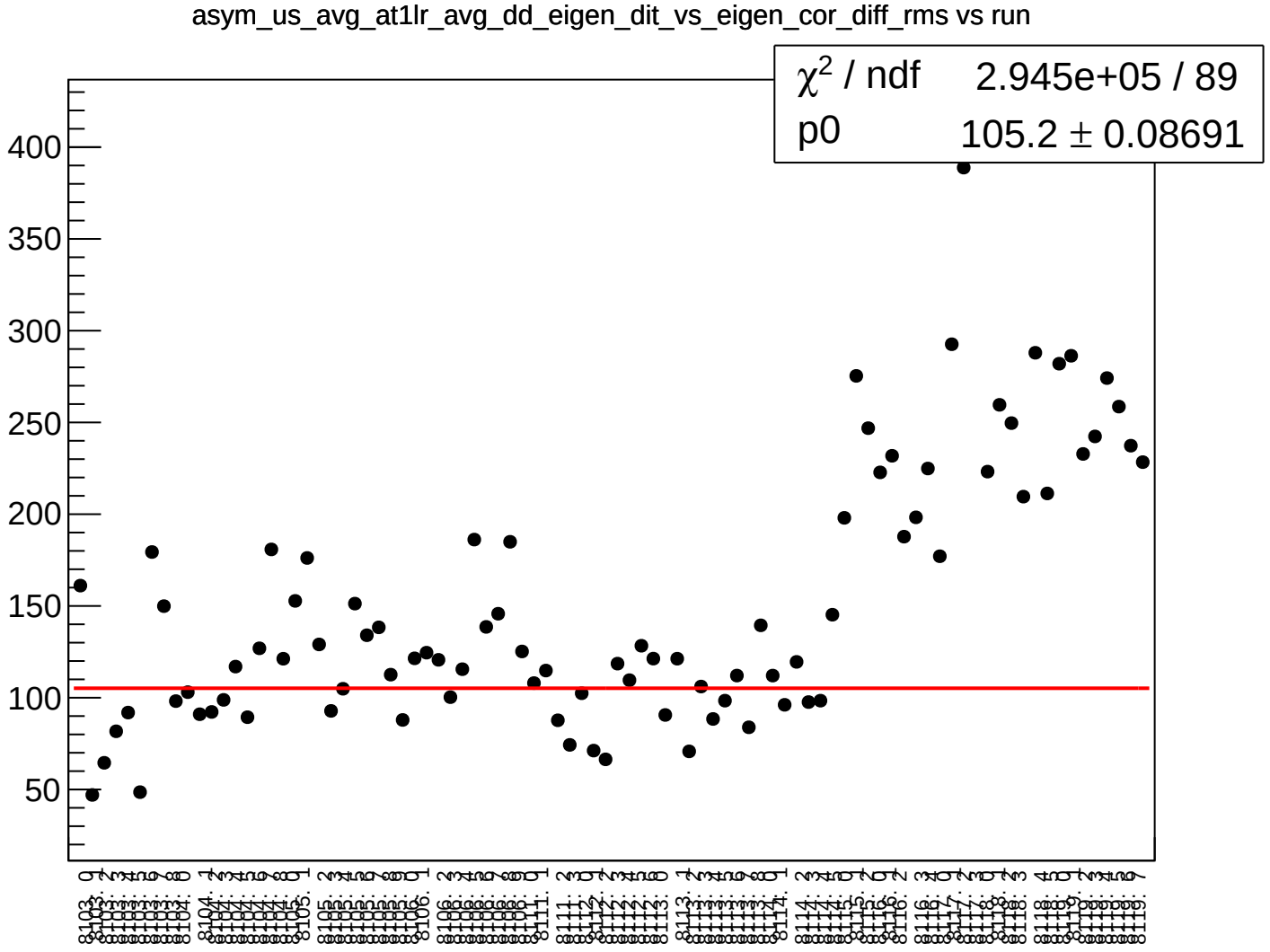

pull1D
Entries 90
Mean 0.004635
Std Dev 1.016

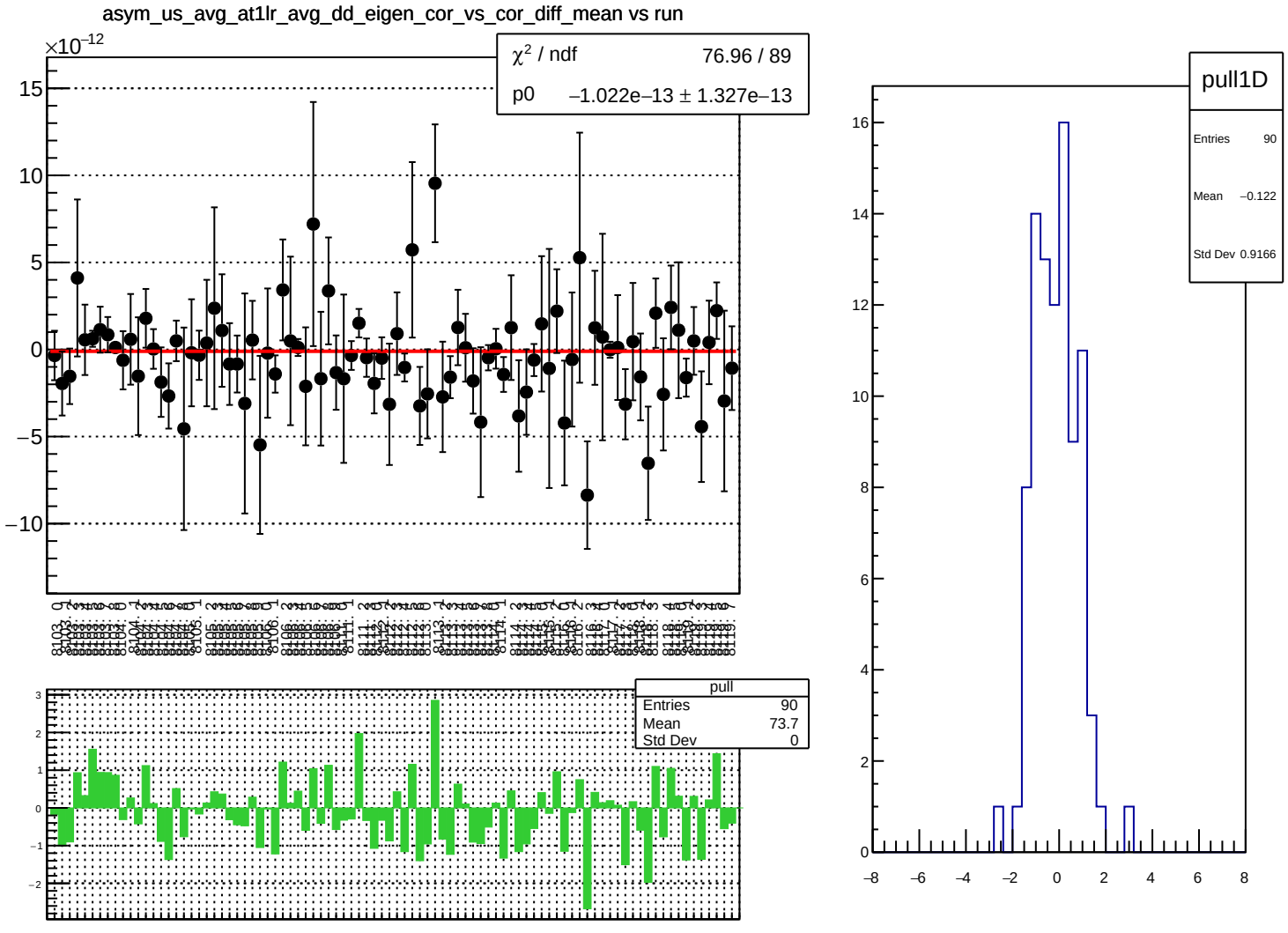

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2827 / 89
p0 0.009714 ± 7.33e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009

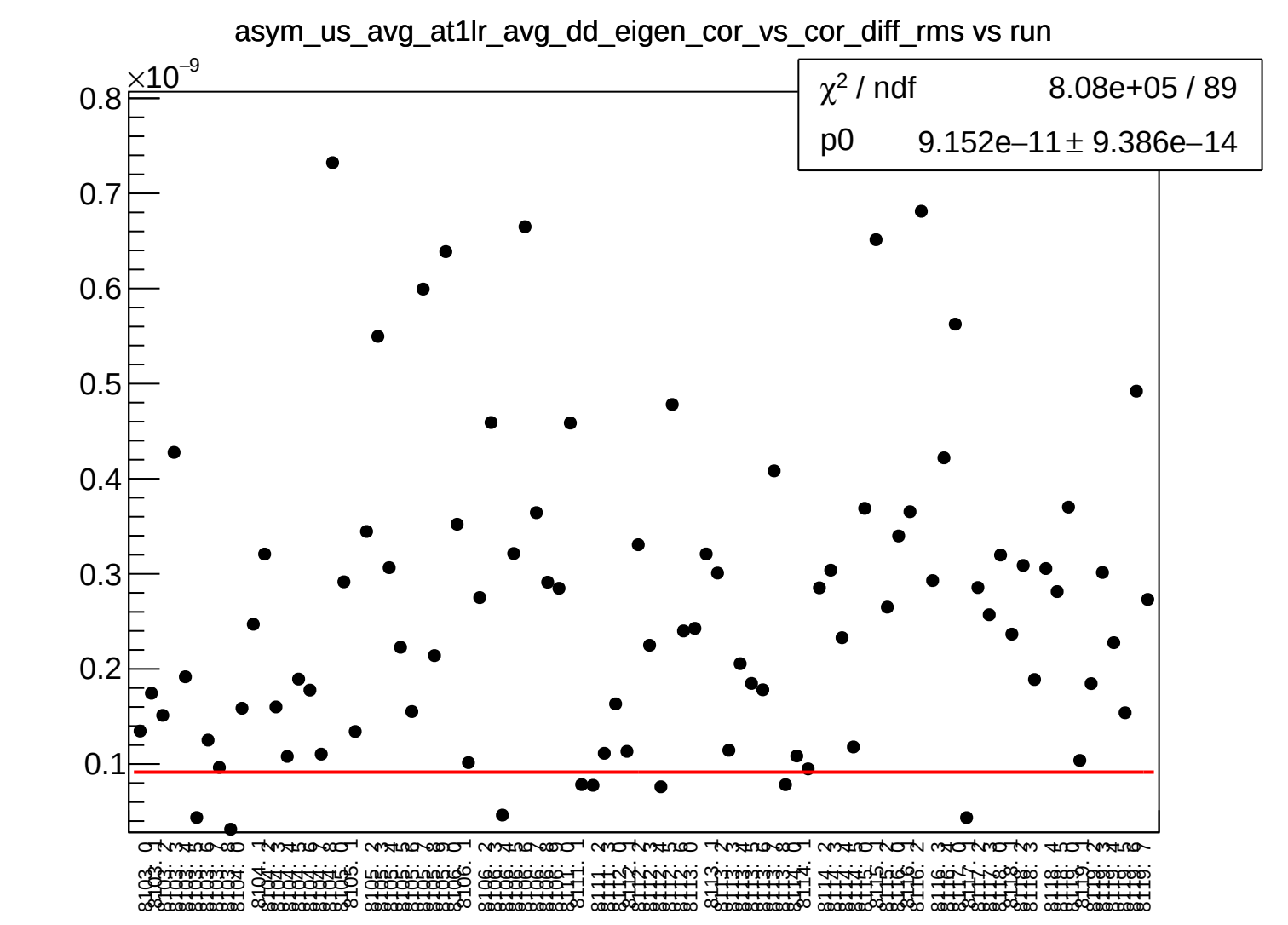

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.64 / 89
p0 −0.1238 ± 0.1229
pull
Entries 90
Mean 107.4
Std Dev 0
pull1D
Entries 90
Mean −0.07766
Std Dev 0.9609

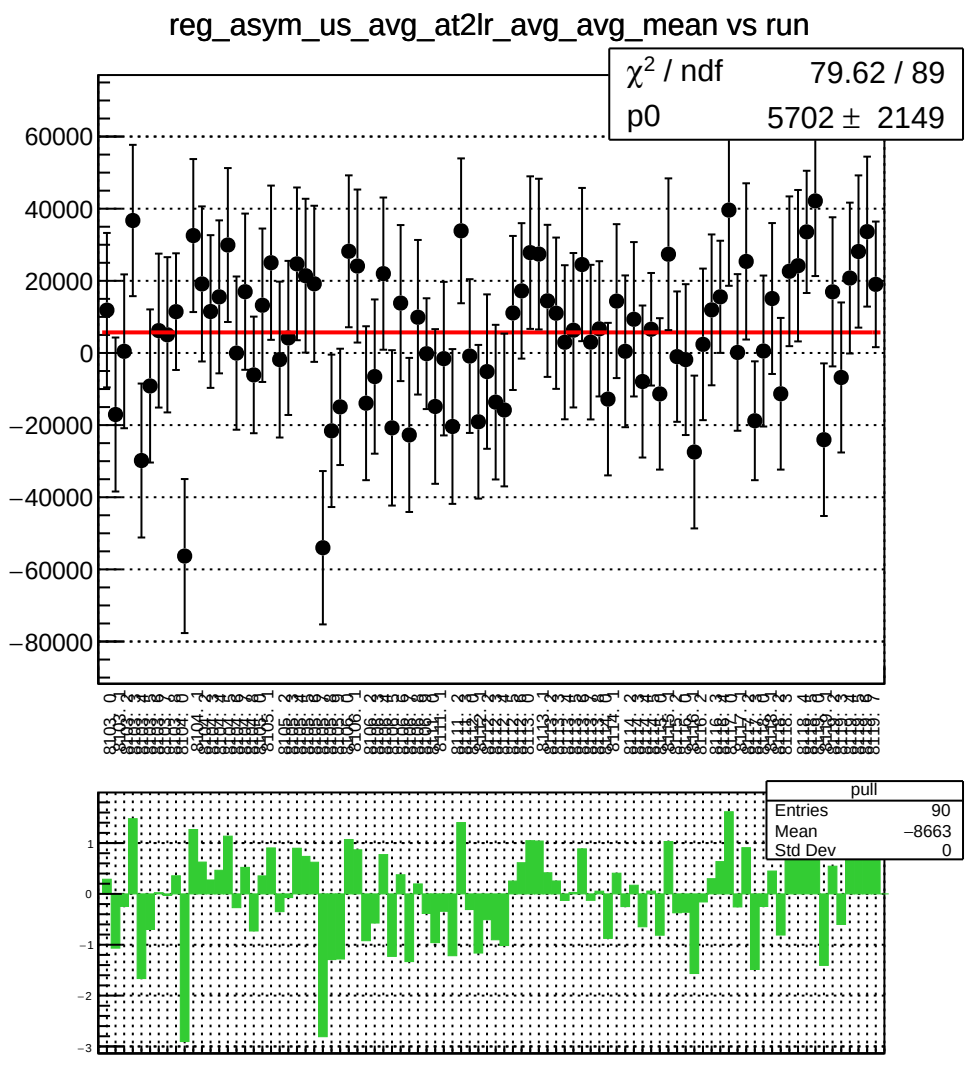

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.945e+05 / 89
p0 105.2 ± 0.08691
400
350
300
250
200
150
100
50

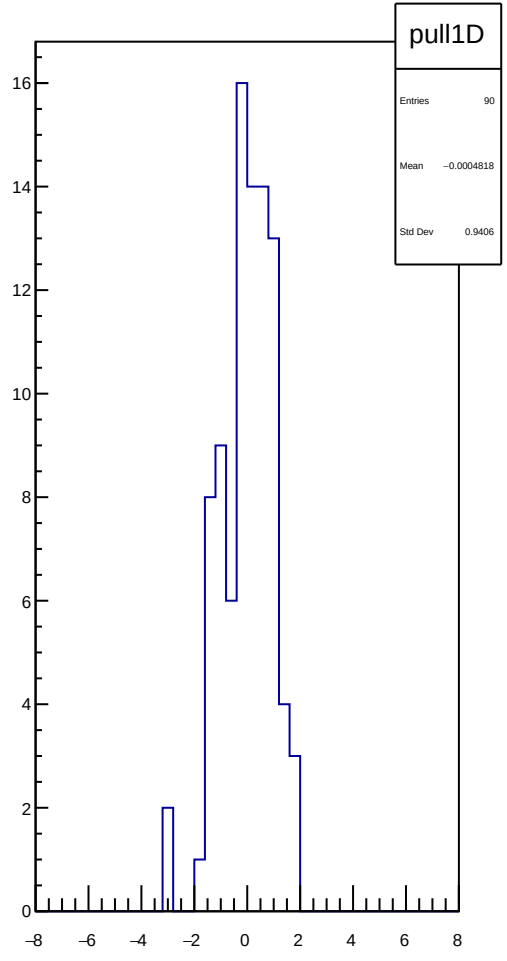

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.64 / 89
p0 −0.1238 ± 0.1229
pull
Entries 90
Mean 107.4
Std Dev 0
pull1D
Entries 90
Mean −0.07766
Std Dev 0.9609

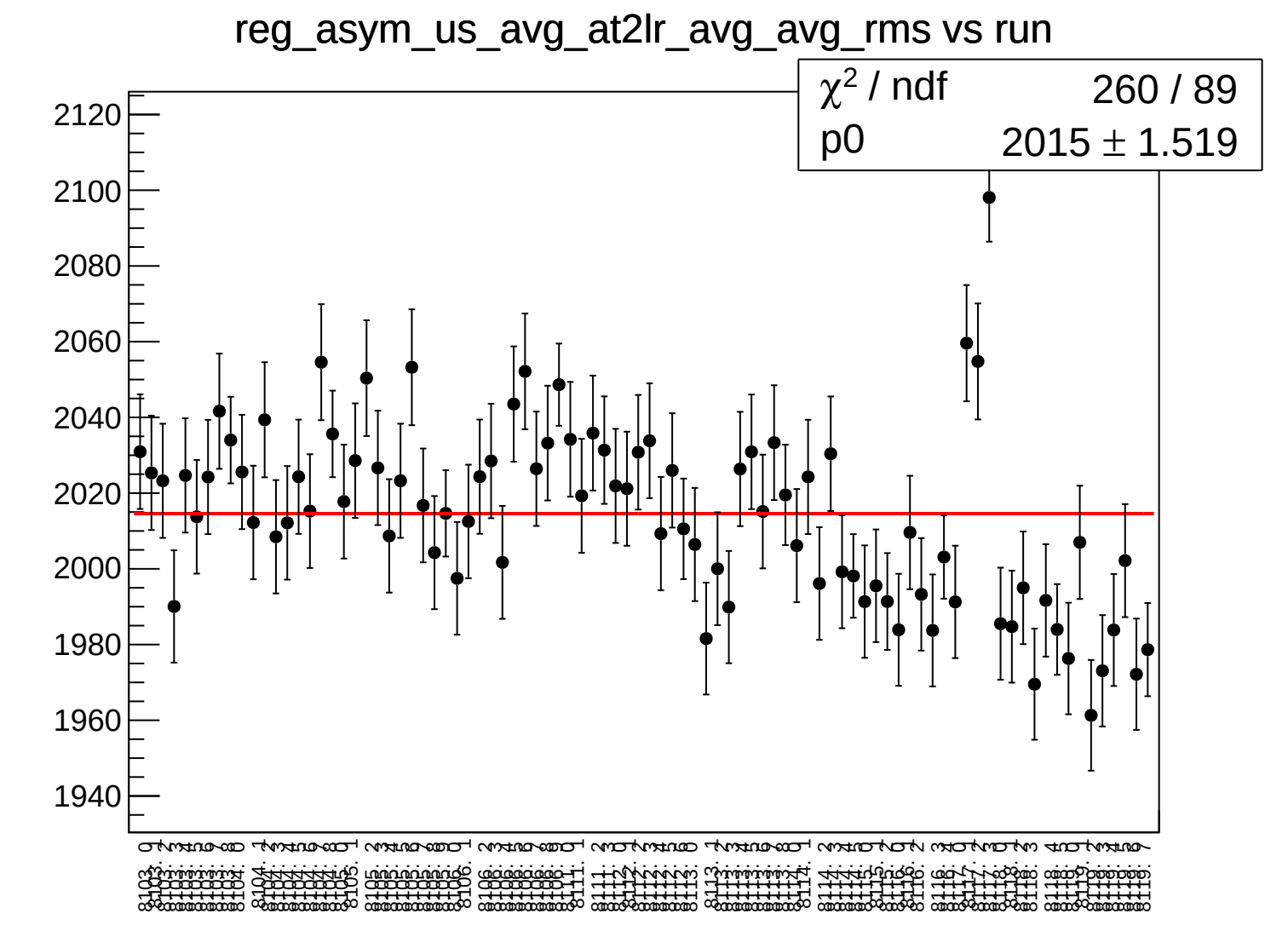

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.945e+05 / 89
p0 105.2 ± 0.08691
400
350
300
250
200
150
100
50

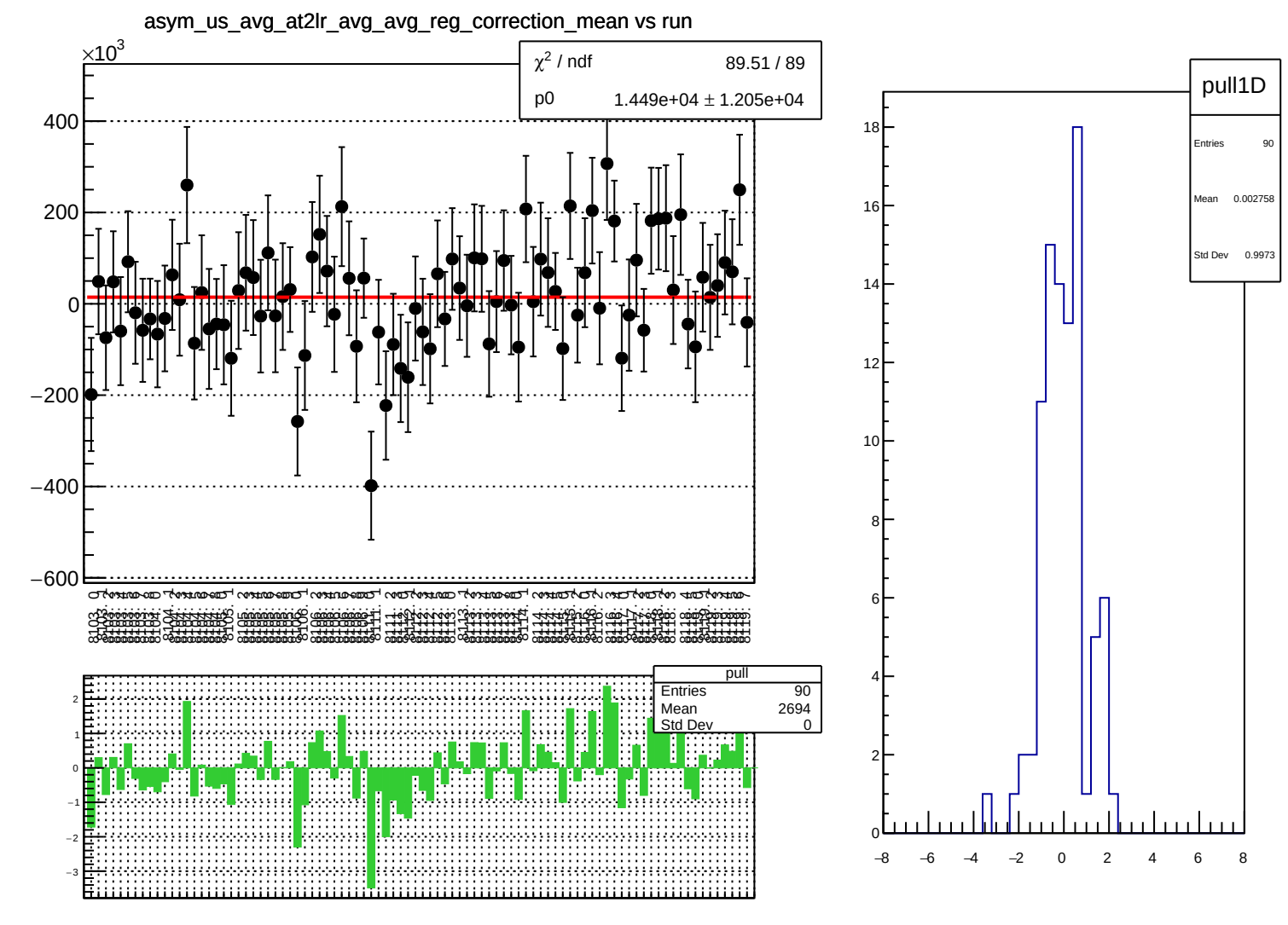

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.96 / 89
p0 −1.022e−13 ± 1.327e−13
pull
Entries 90
Mean 73.7
Std Dev 0
pull1D
Entries 90
Mean −0.122
Std Dev 0.9166

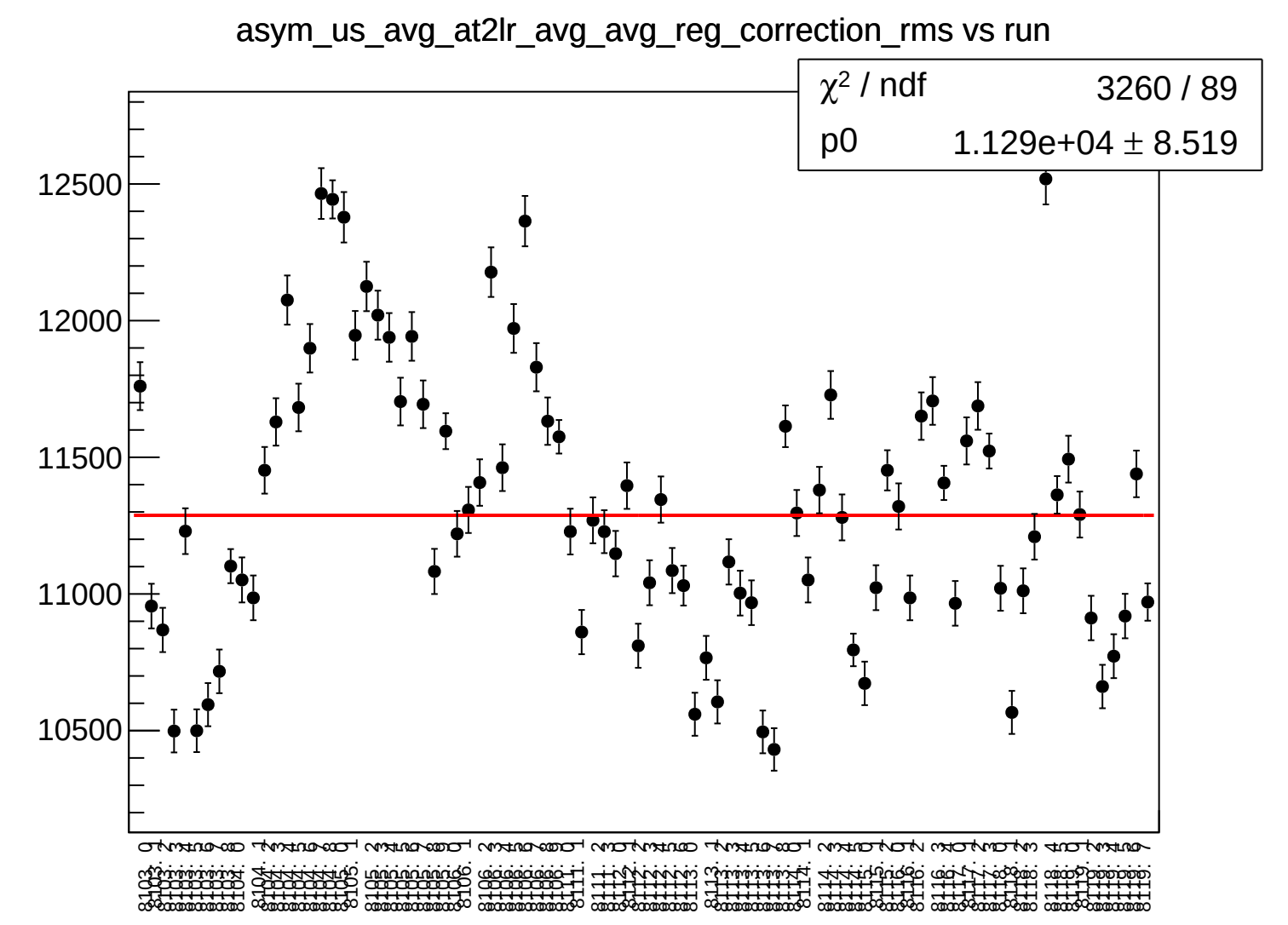

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.08e+05 / 89
p0 9.152e−11 ± 9.386e−14

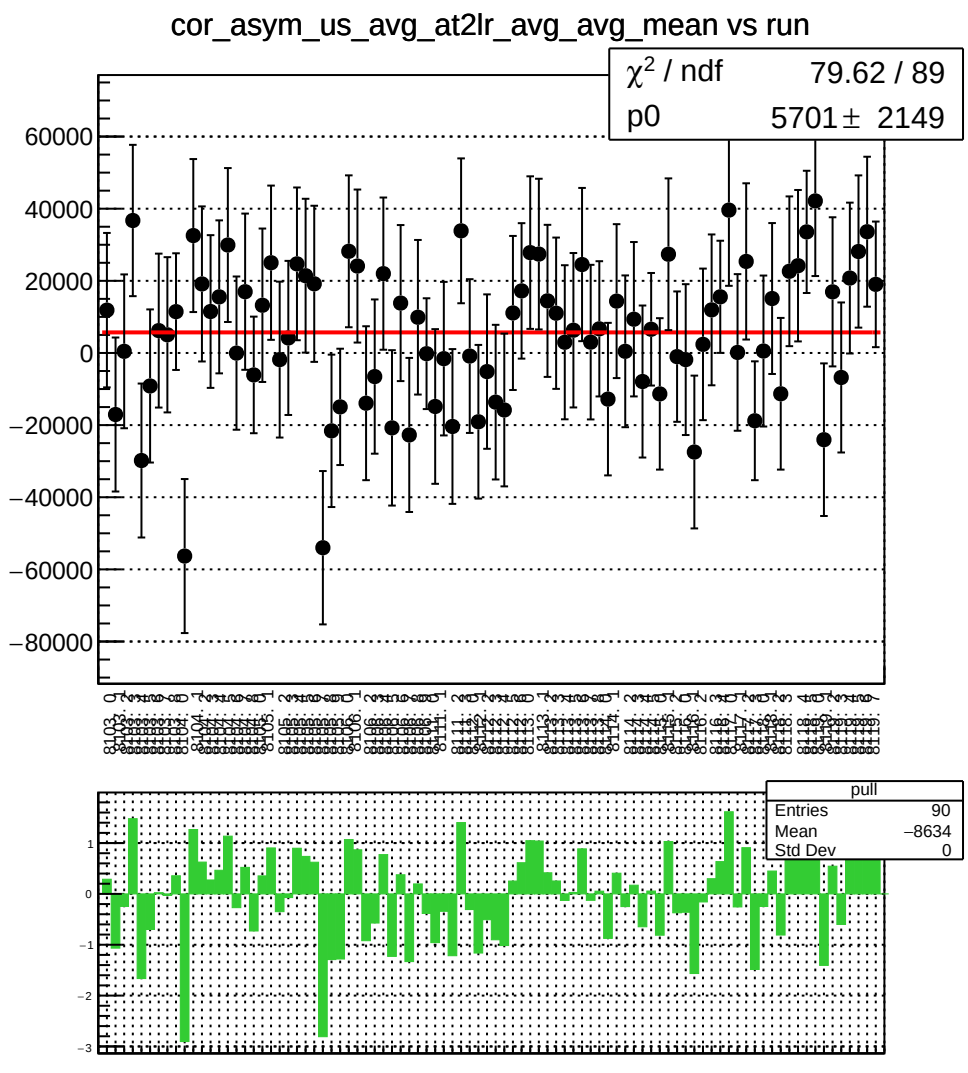

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 79.62 / 89
p0 5702 ± 2149
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −8663
Std Dev 0
1
0
−1
−2
−3

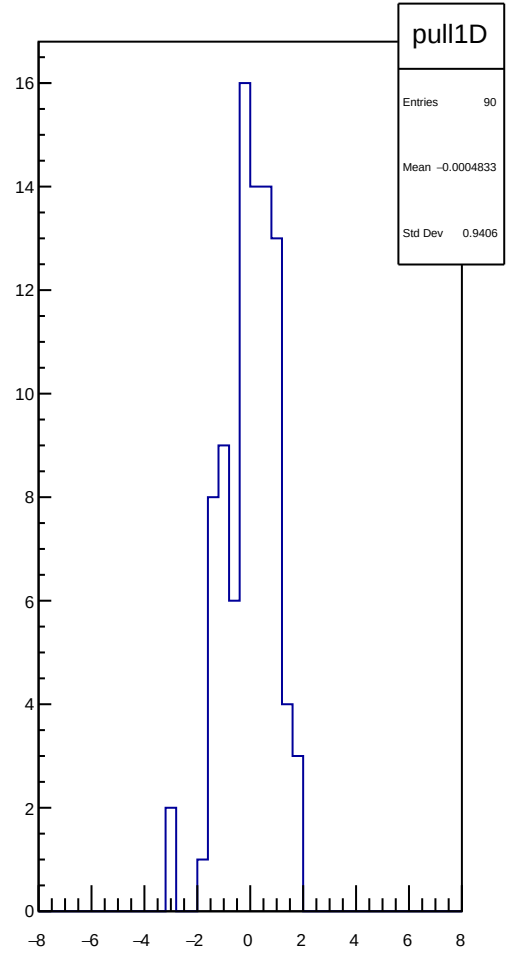

pull1D
Entries 90
Mean −0.0004818
Std Dev 0.9406
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

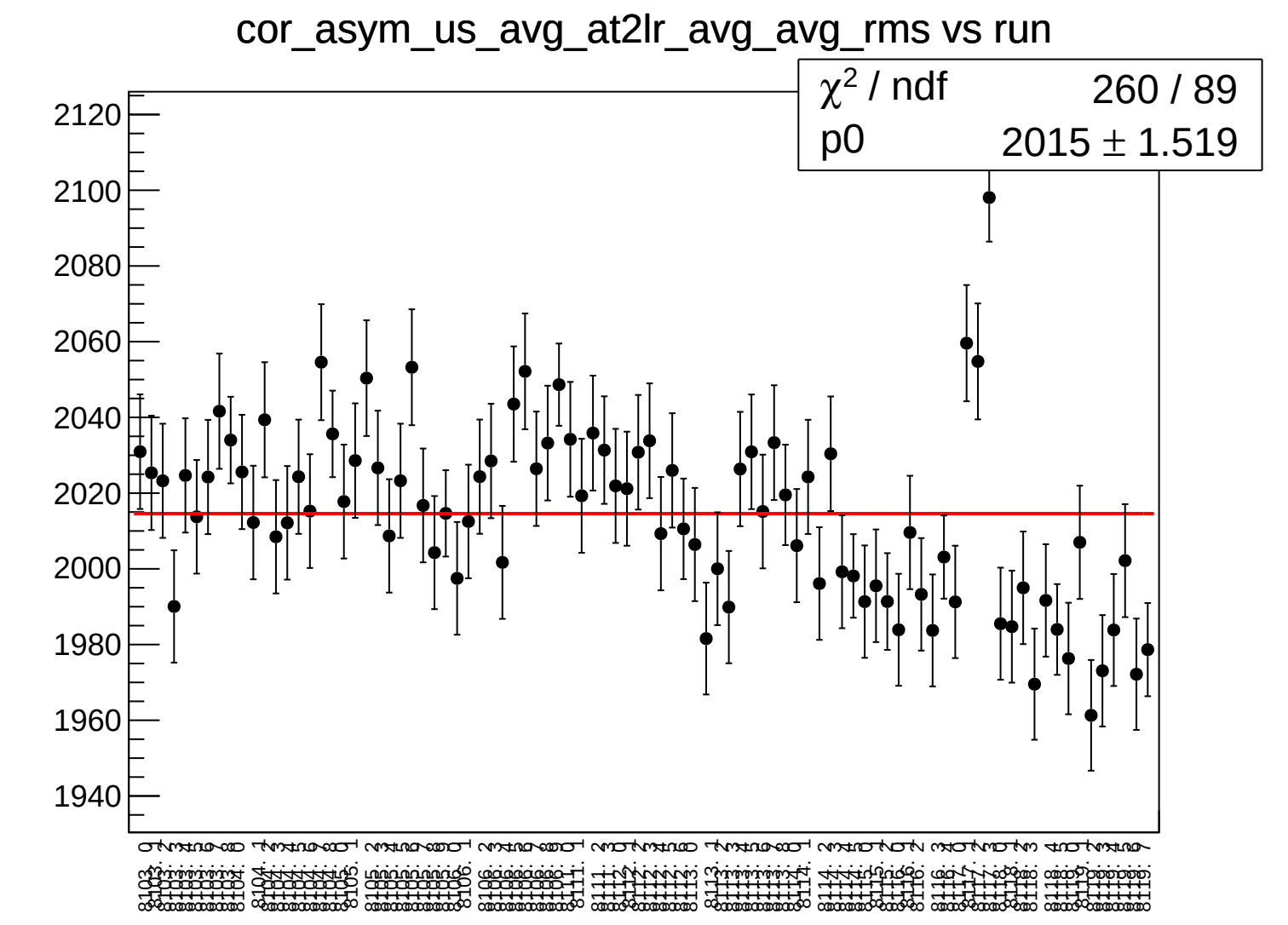

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 260 / 89
p0 2015 ± 1.519
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

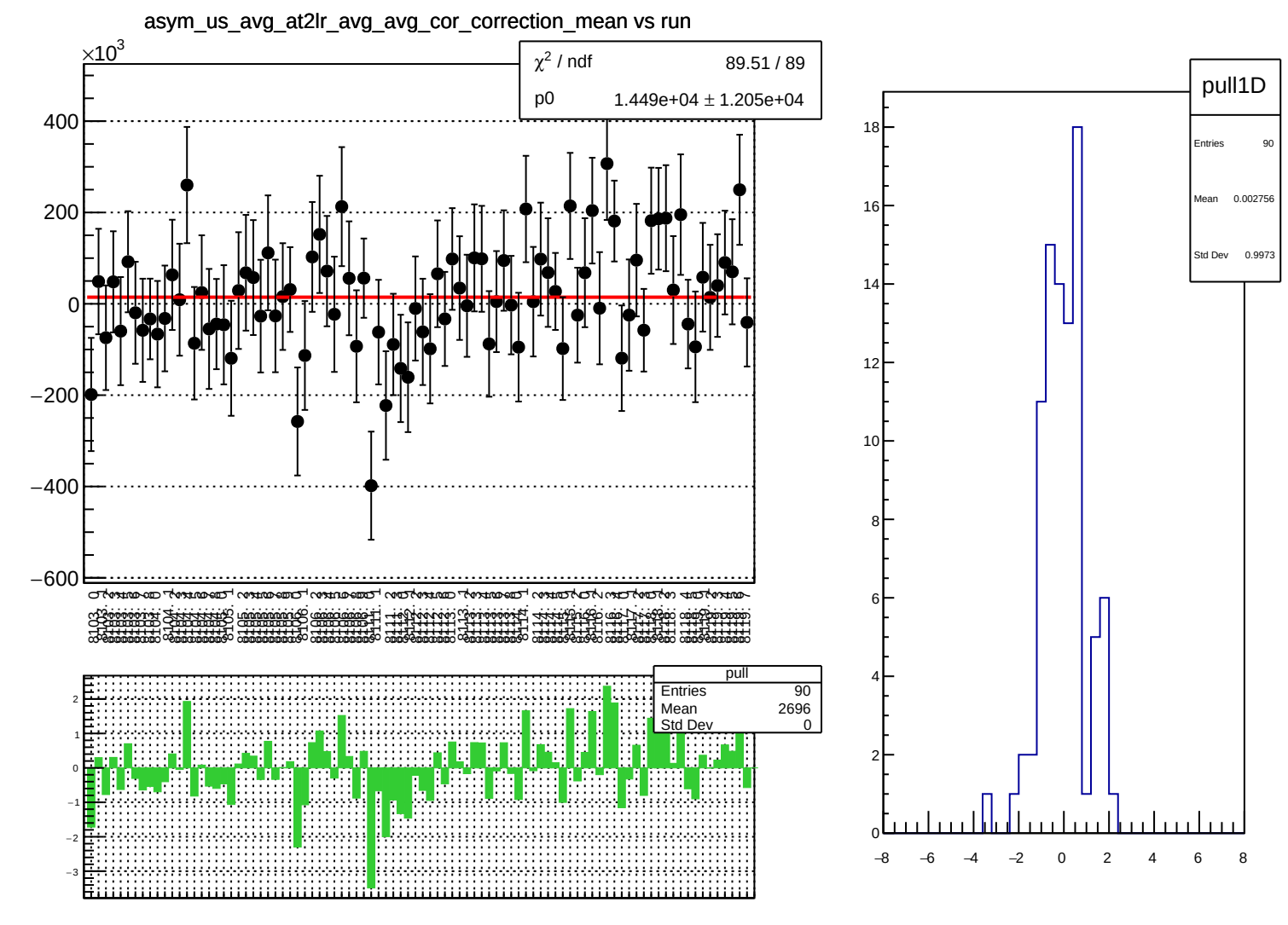

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.51 / 89
p0 1.449e+04 ± 1.205e+04
400
200
0
−200
−400
−600
pull
Entries 90
Mean 2694
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.002758
Std Dev 0.9973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

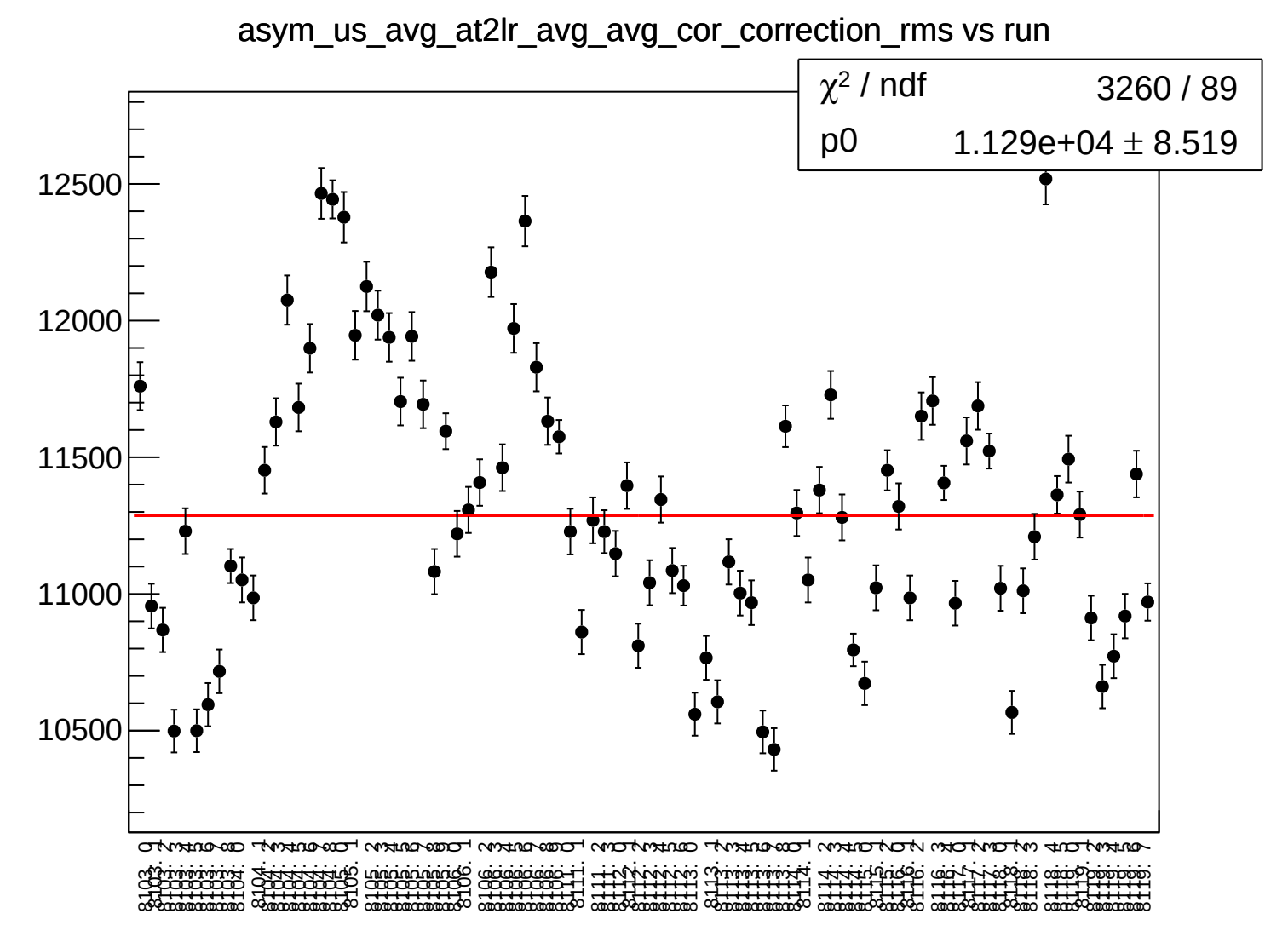

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3260 / 89
p0 1.129e+04 ± 8.519
12500
12000
11500
11000
10500

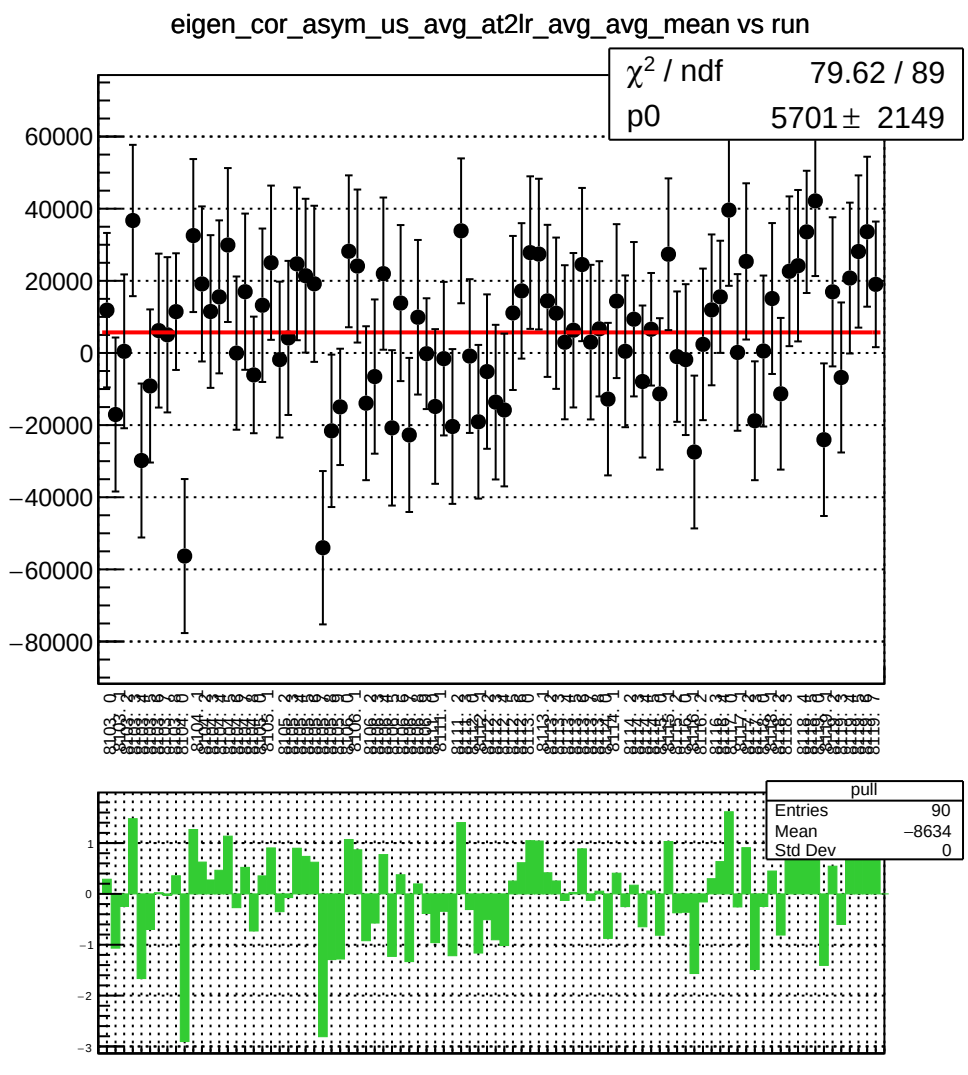

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 79.62 / 89
p0 5701 ± 2149
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −8634
Std Dev 0
1
0
−1
−2
−3

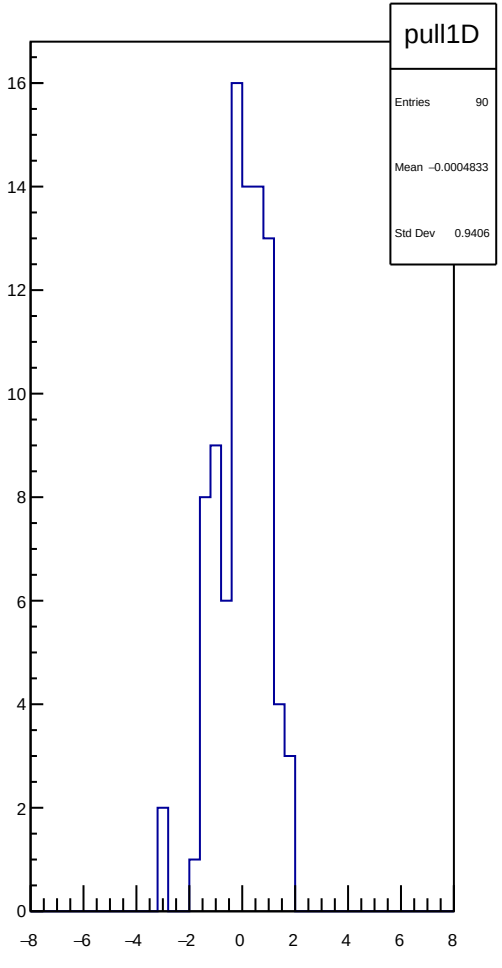

pull1D
Entries 90
Mean −0.0004833
Std Dev 0.9406
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

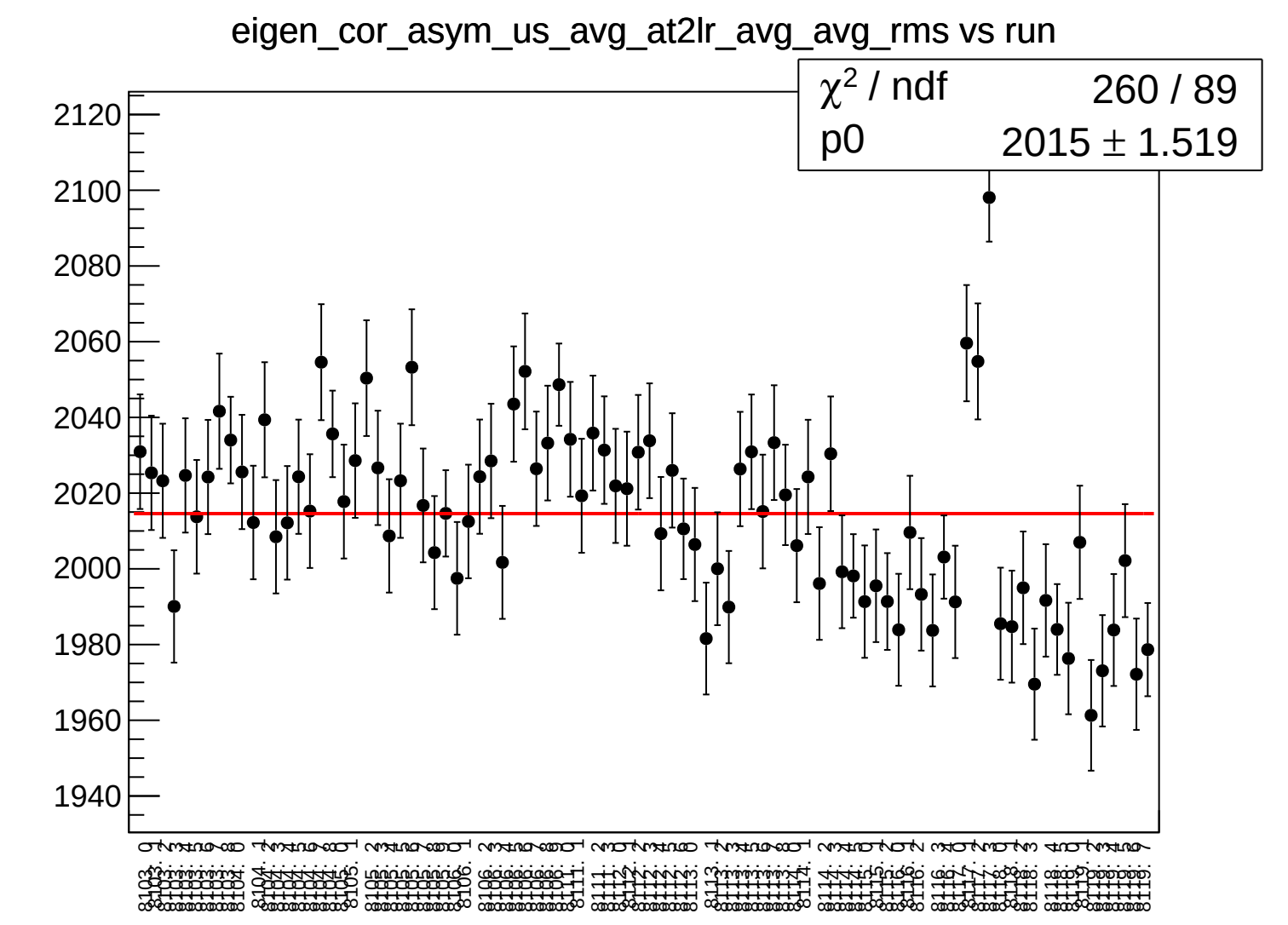

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 260 / 89
p0 2015 ± 1.519
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

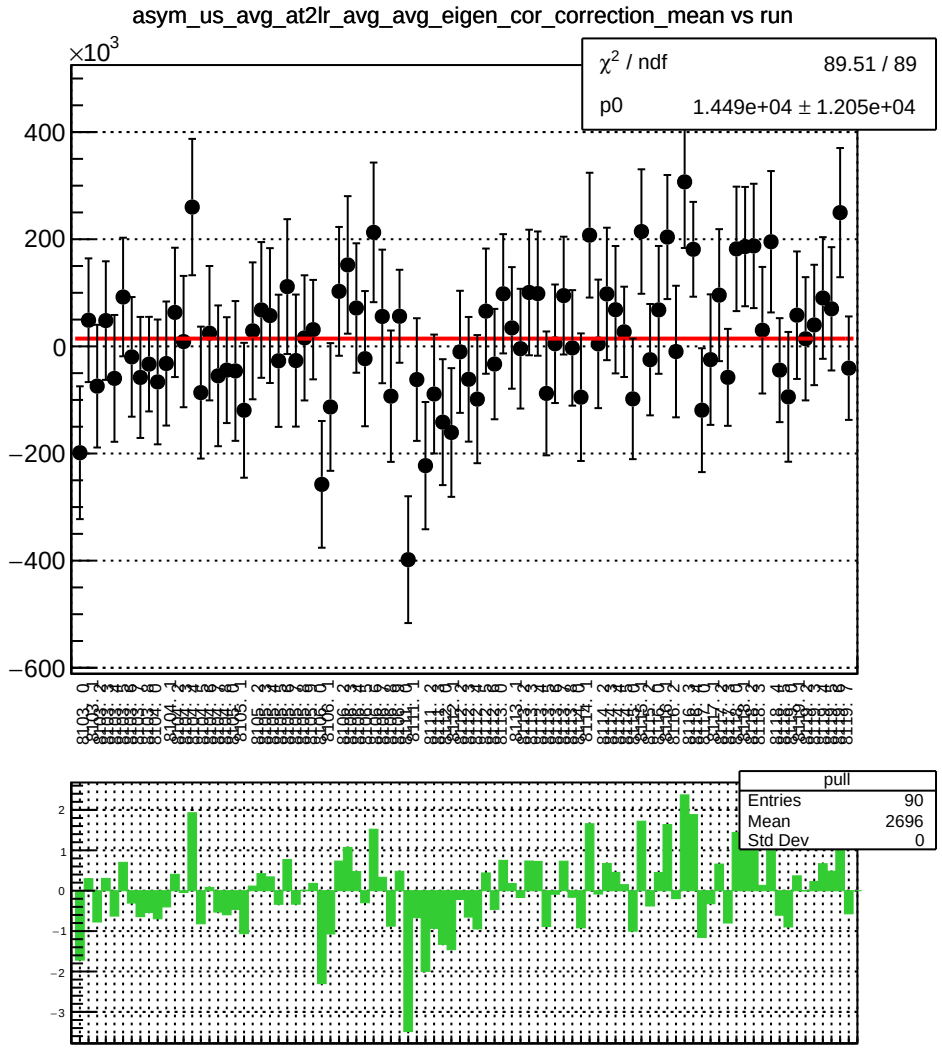

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.51 / 89
p0 1.449e+04 ± 1.205e+04
400
200
0
−200
−400
−600
pull
Entries 90
Mean 2696
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.002756
Std Dev 0.9973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

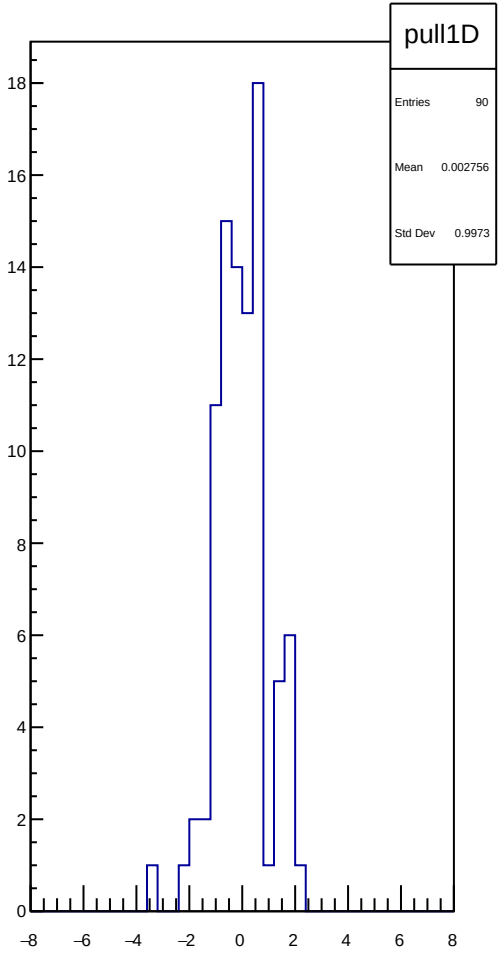

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3260 / 89
p0 1.129e+04 ± 8.519
12500
12000
11500
11000
10500

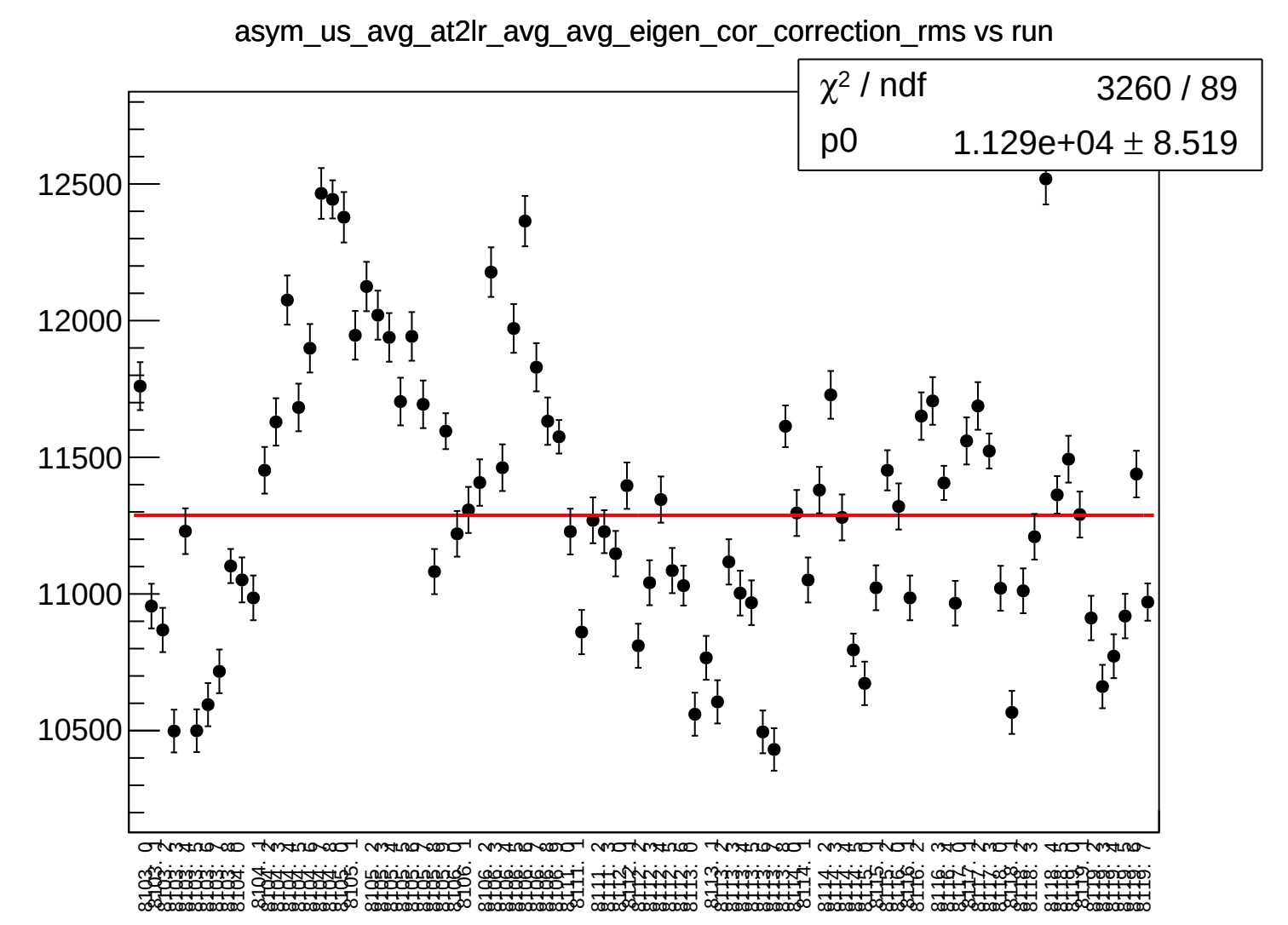

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 79.62 / 89
p0 5701 ± 2149
pull
Entries 90
Mean −8634
Std Dev 0

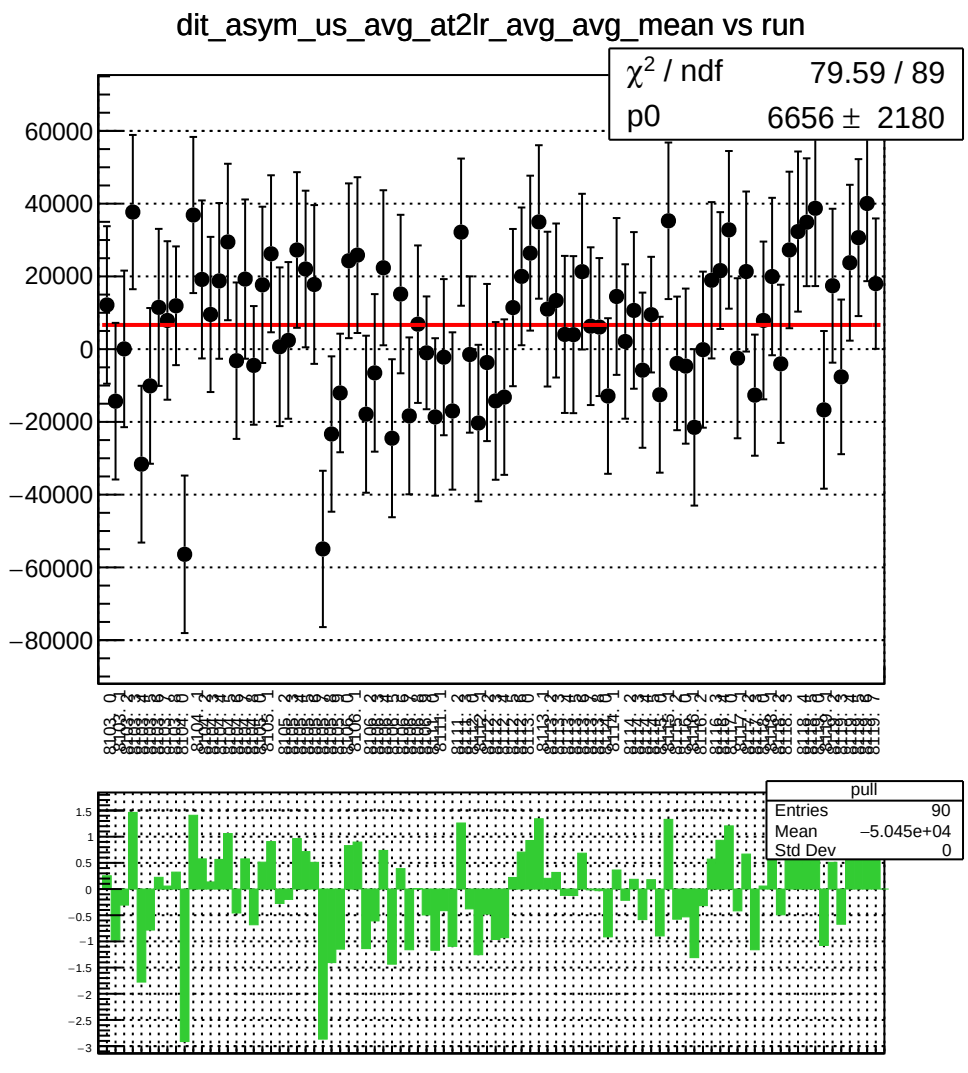

pull1D
Entries 90
Mean −0.0004833
Std Dev 0.9406

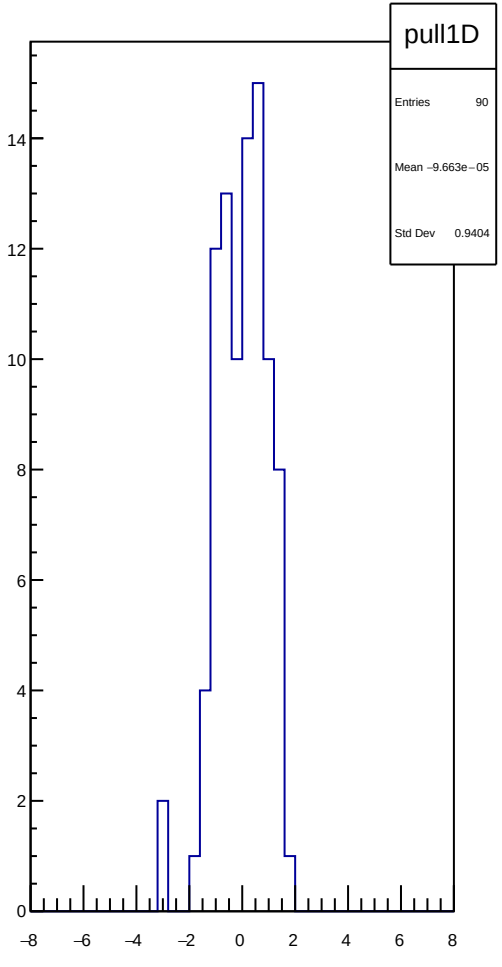

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 260 / 89
p0 2015 ± 1.519
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

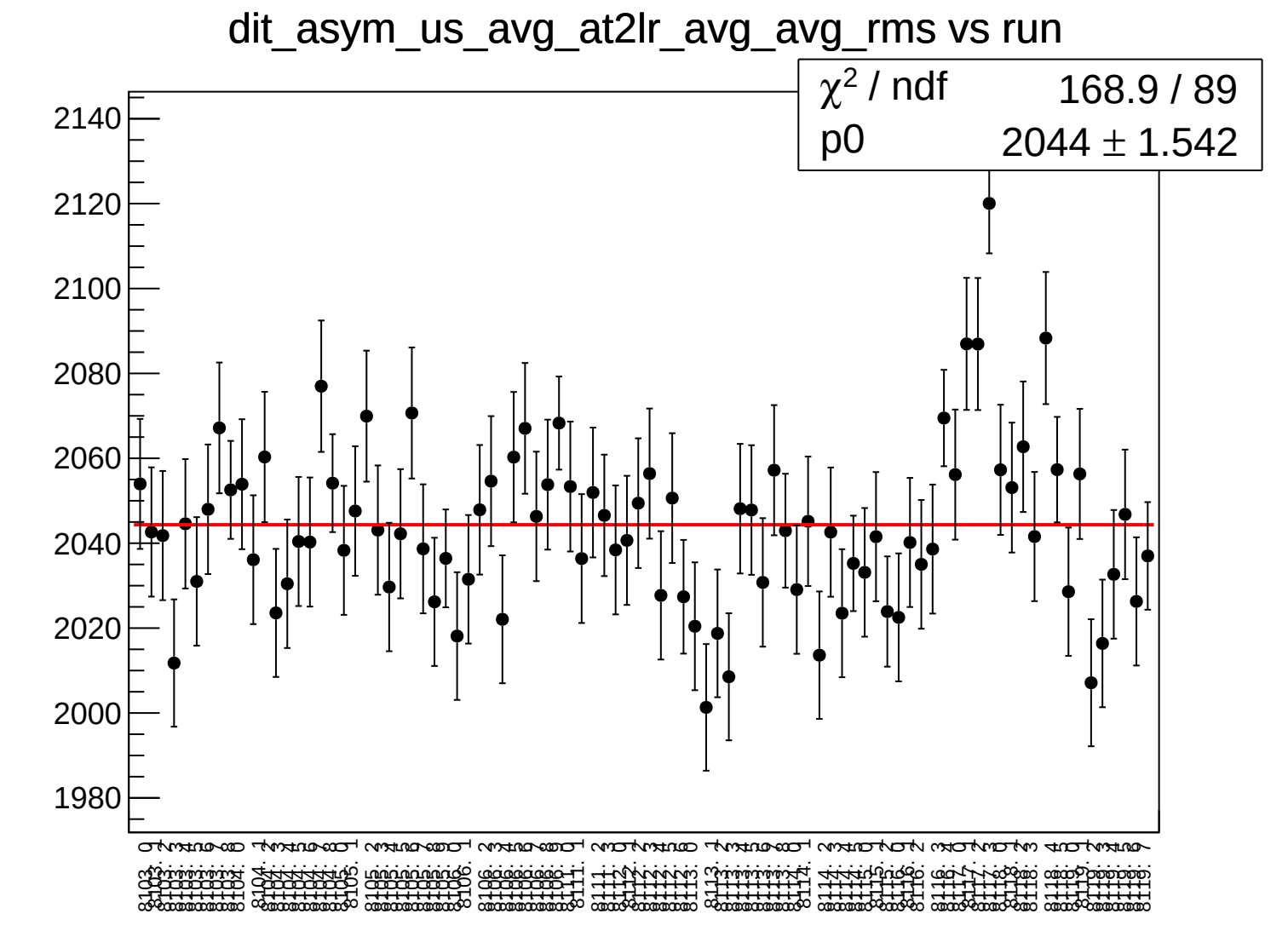

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.51 / 89
p0 1.449e+04 ± 1.205e+04
pull
Entries 90
Mean 2696
Std Dev 0

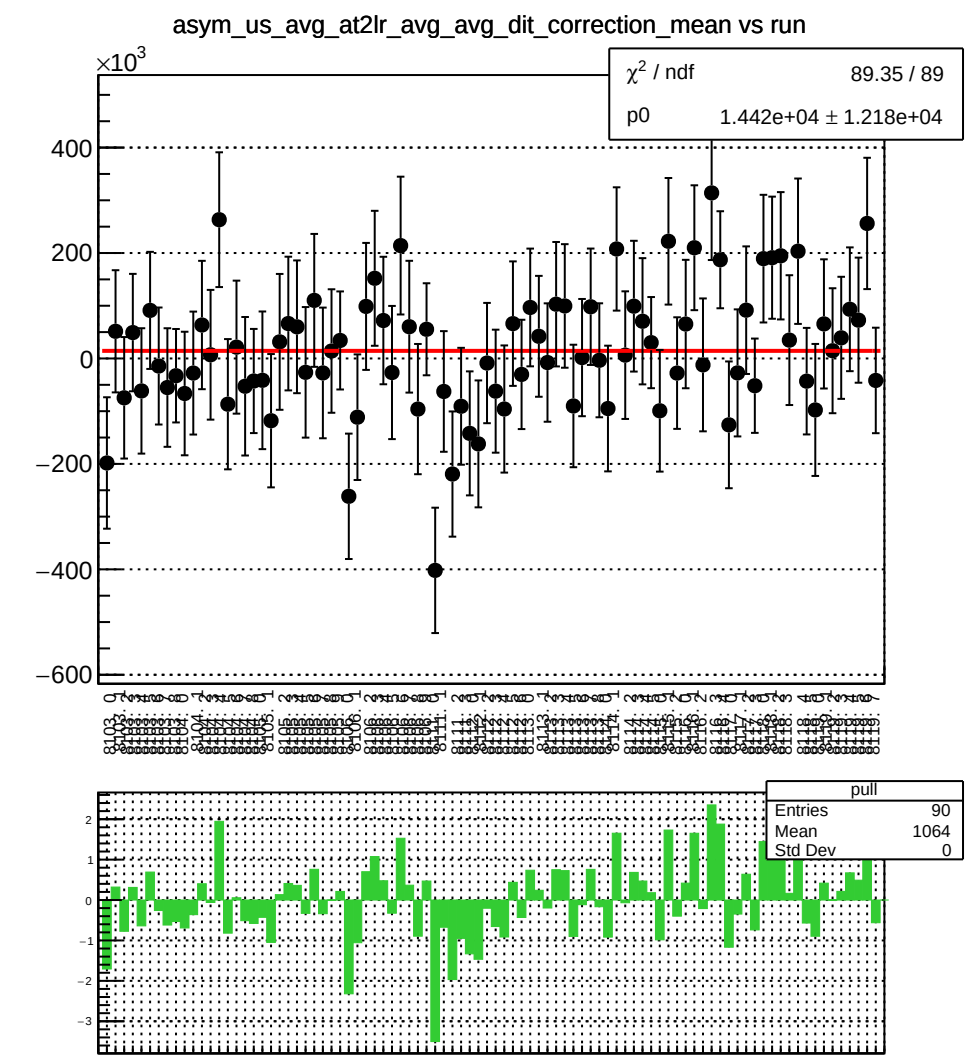

pull1D
Entries 90
Mean 0.002756
Std Dev 0.9973

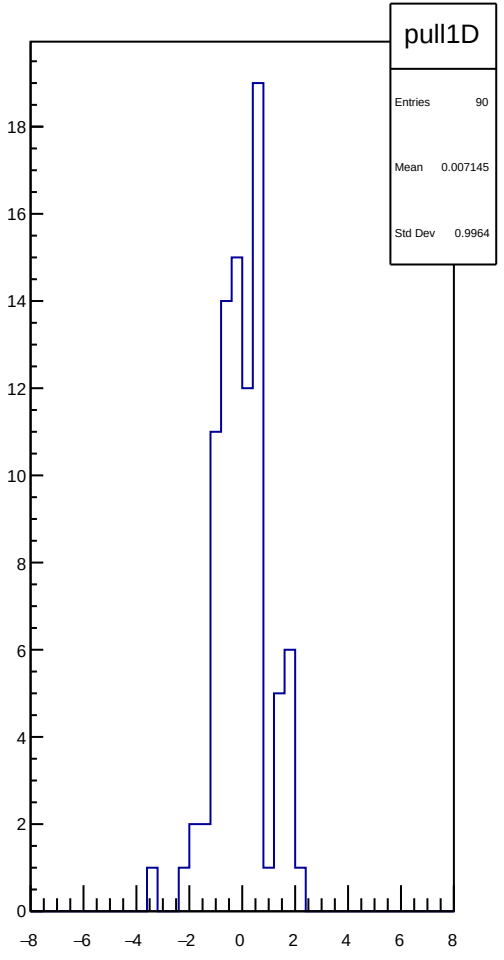

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3260 / 89
p0 1.129e+04 ± 8.519
12500
12000
11500
11000
10500

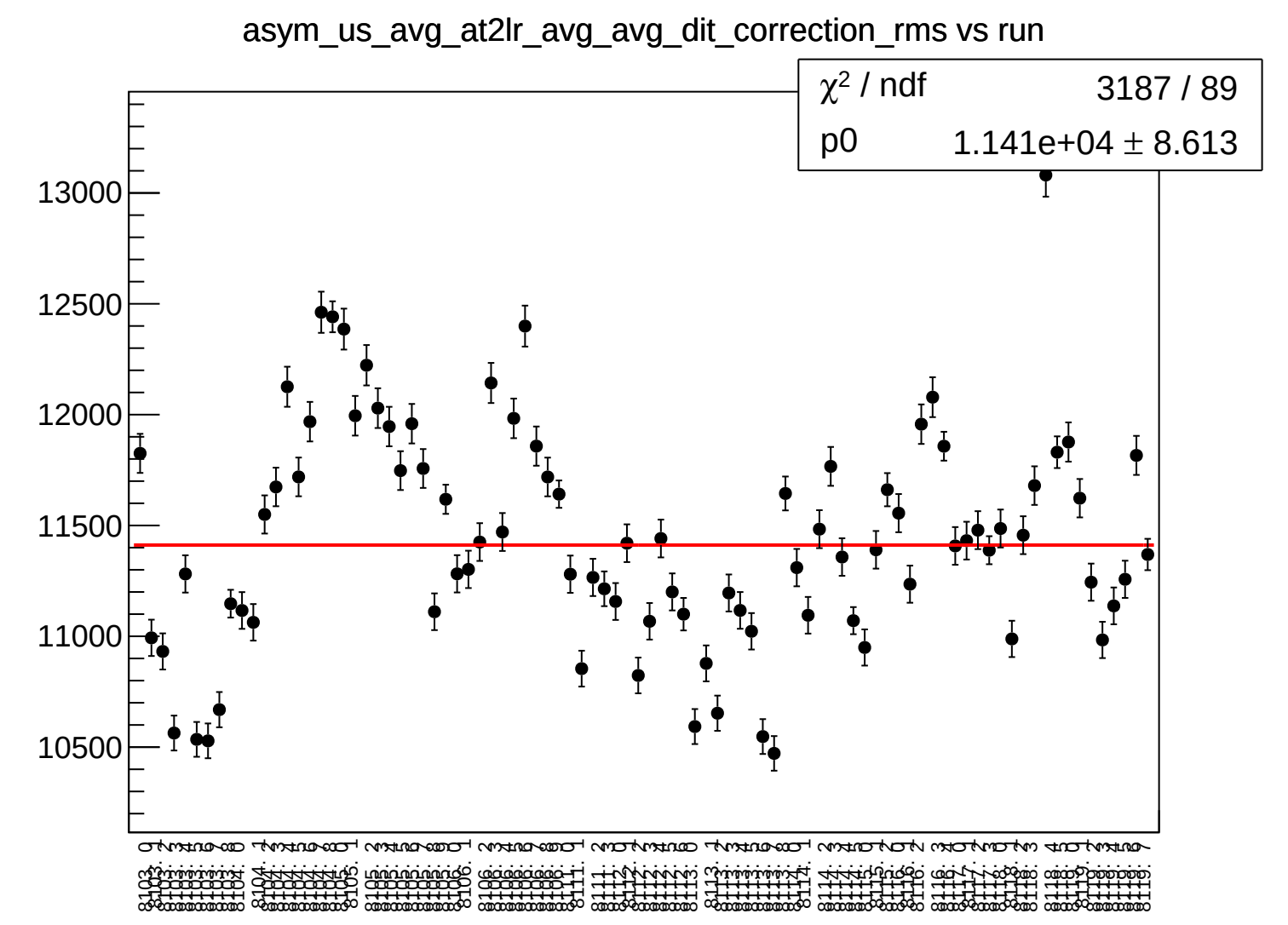

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 79.59 / 89
p0 6656 ± 2180
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −5.045e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

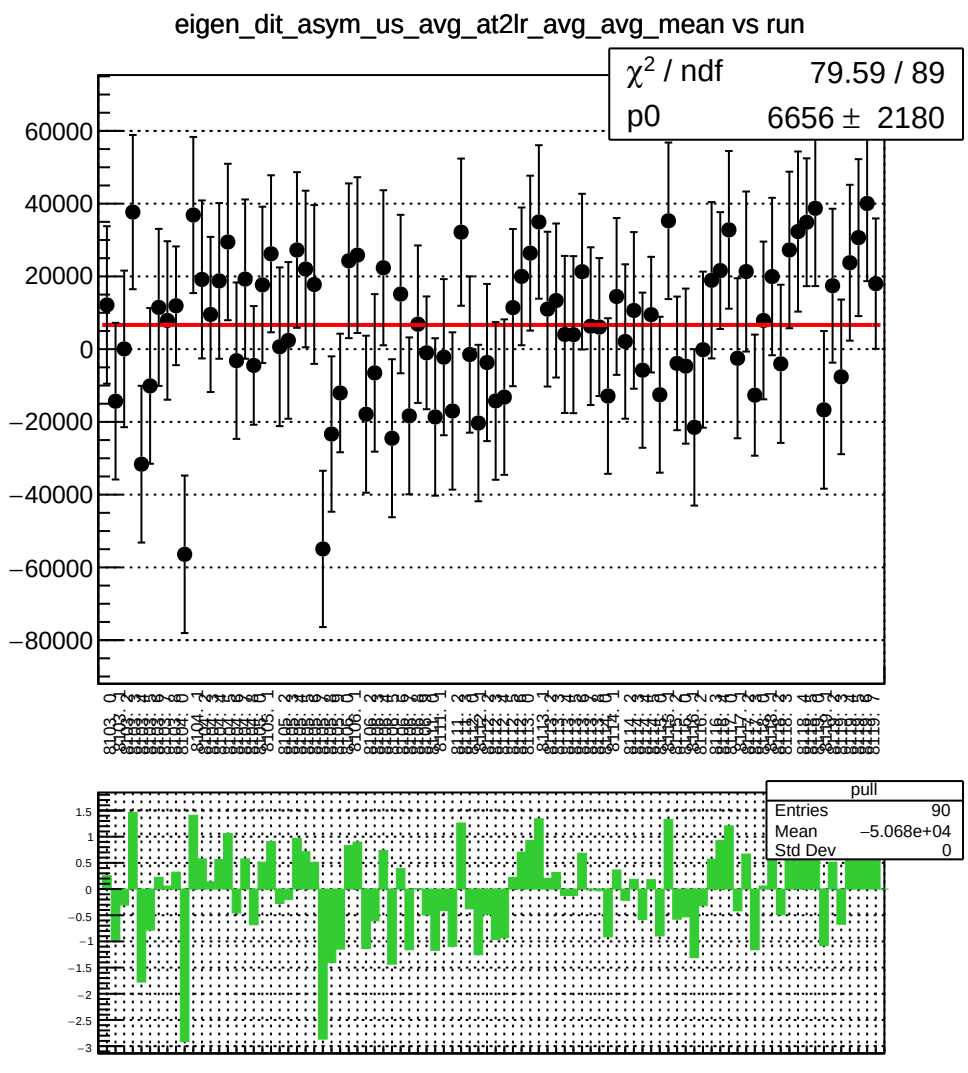

pull1D
Entries 90
Mean −9.663e−05
Std Dev 0.9404
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

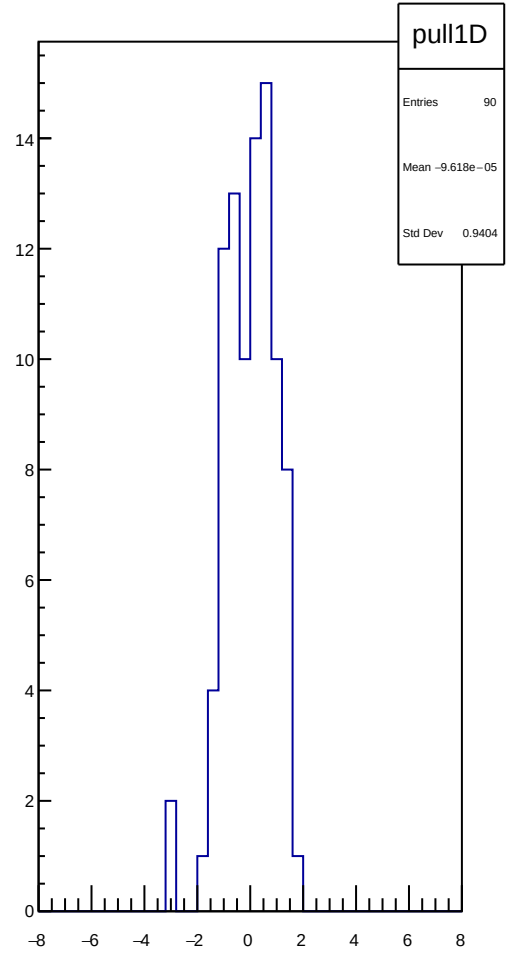

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 168.9 / 89
p0 2044 ± 1.542
2140
2120
2100
2080
2060
2040
2020
2000
1980

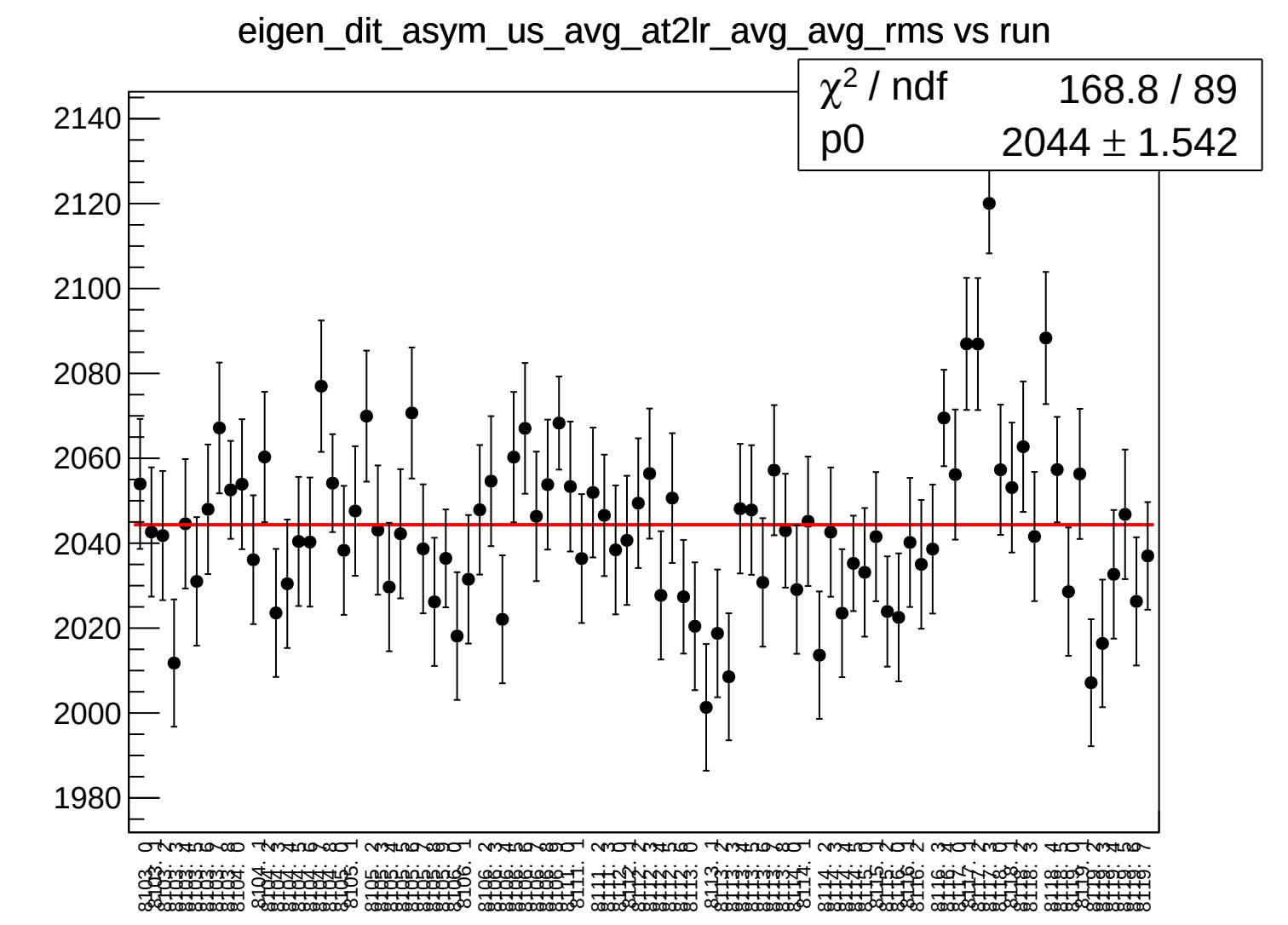

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.35 / 89
p0 1.442e+04 ± 1.218e+04
400
200
0
−200
−400
−600
pull
Entries 90
Mean 1064
Std Dev 0
2
1
0
−1
−2
−3

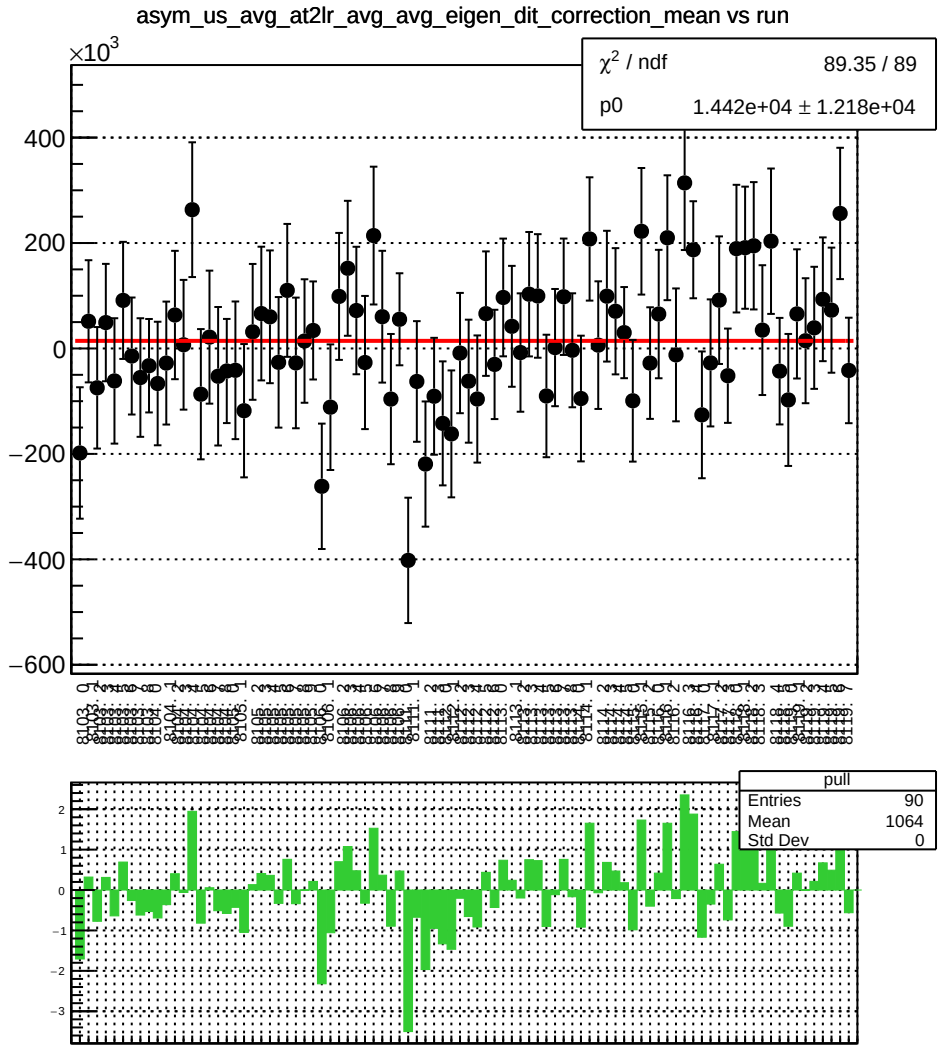

pull1D
Entries 90
Mean 0.007145
Std Dev 0.9964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

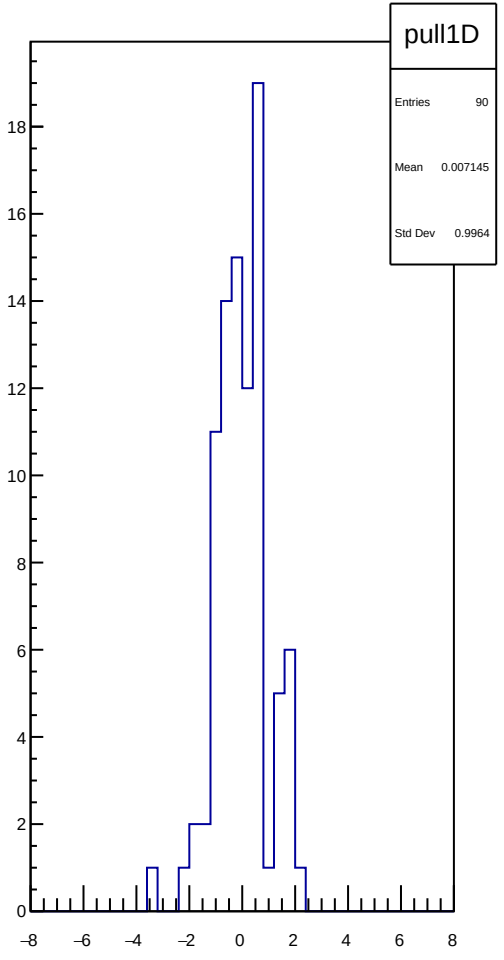

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3187 / 89
p0 1.141e+04 ± 8.613
13000
12500
12000
11500
11000
10500

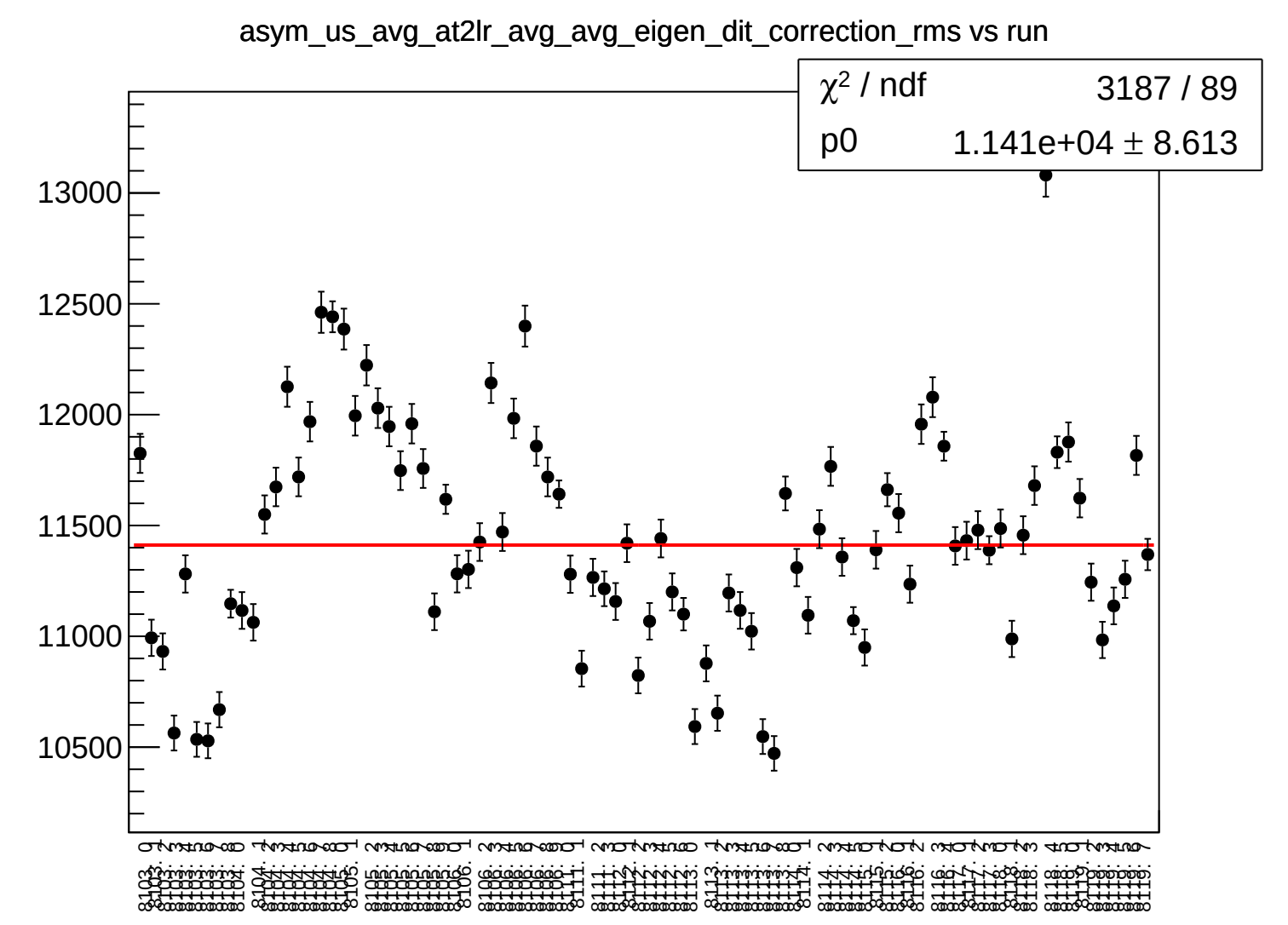

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 79.59 / 89
p0 6656 ± 2180
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −5.068e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

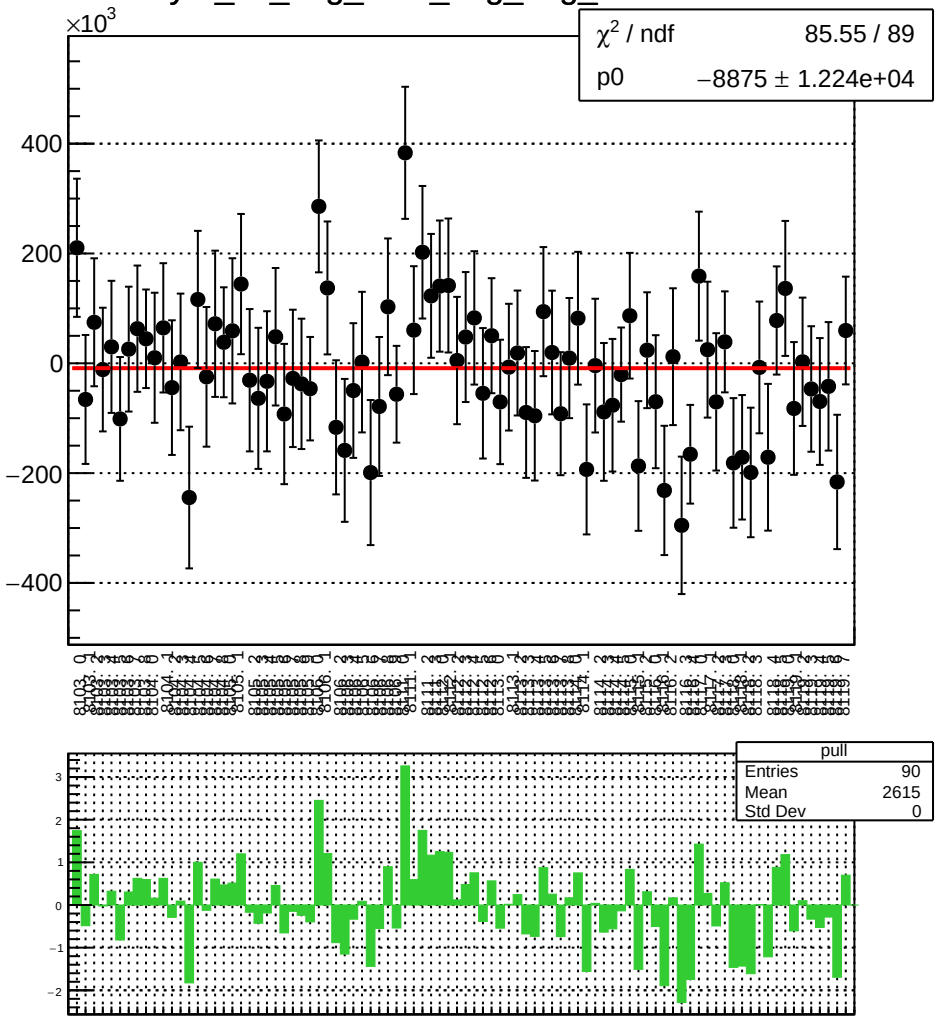

pull1D
Entries 90
Mean −9.618e−05
Std Dev 0.9404
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

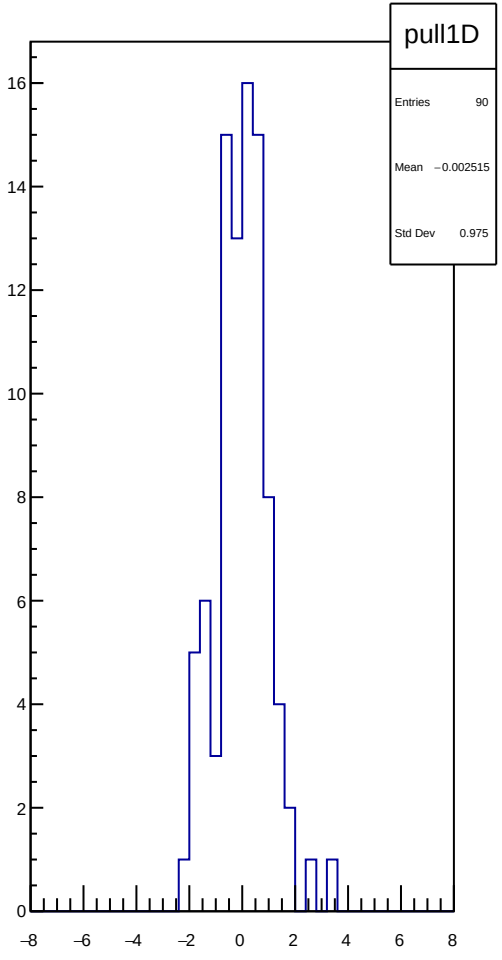

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 168.8 / 89
p0 2044 ± 1.542
2140
2120
2100
2080
2060
2040
2020
2000
1980

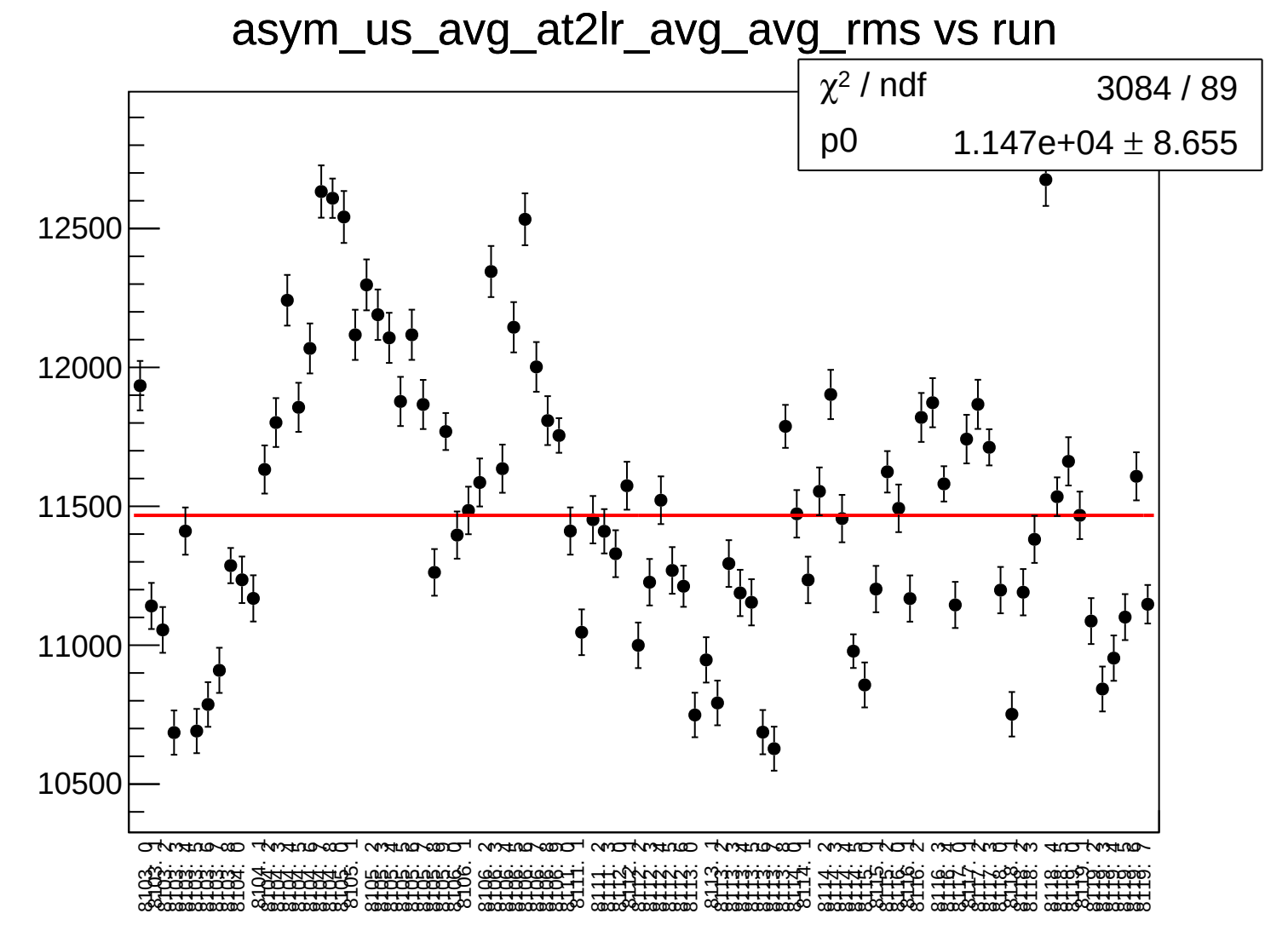

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.35 / 89
p0 1.442e+04 ± 1.218e+04
400
200
0
−200
−400
−600
pull
Entries 90
Mean 1064
Std Dev 0
2
1
0
−1
−2
−3

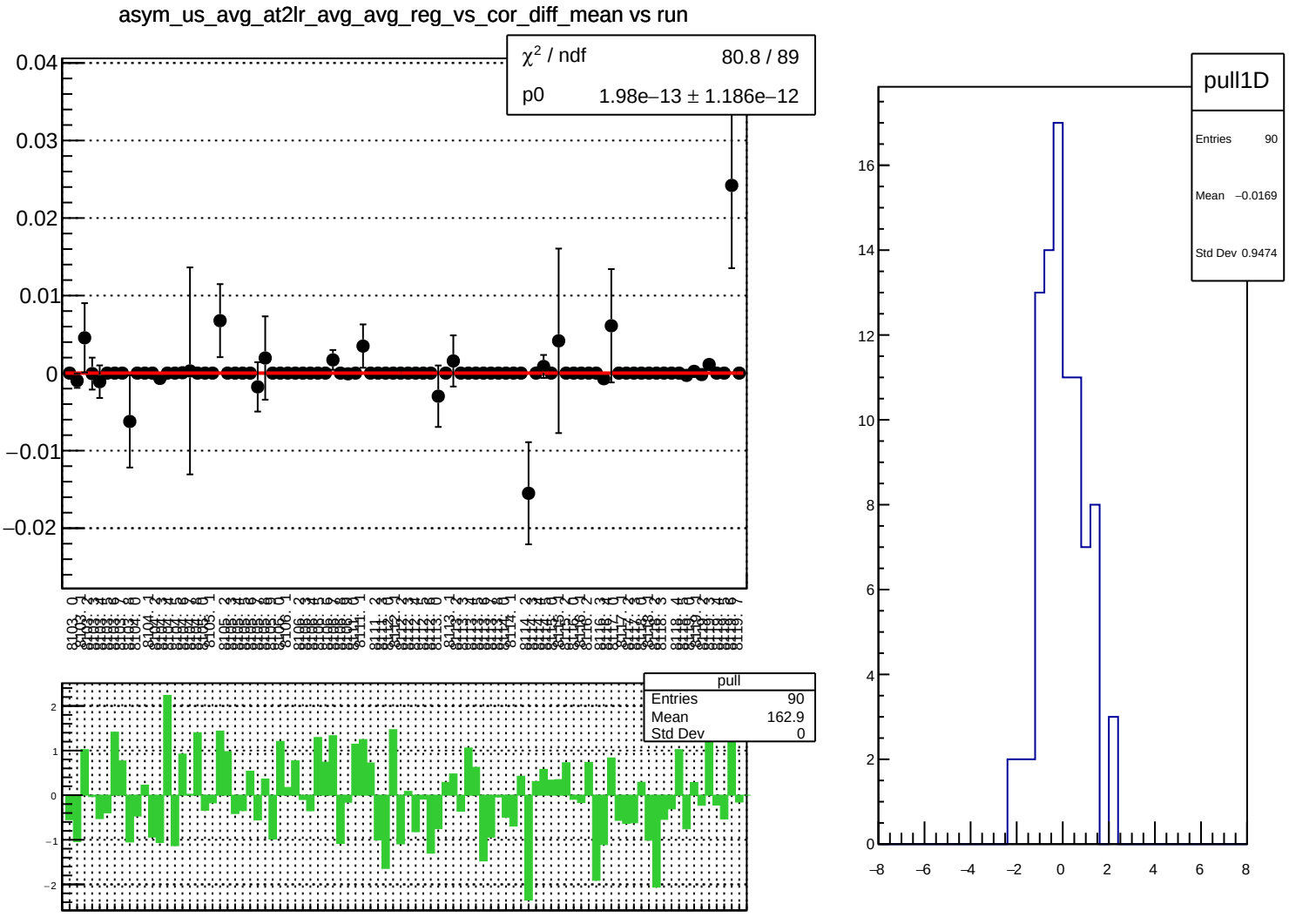

pull1D
Entries 90
Mean 0.007145
Std Dev 0.9964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

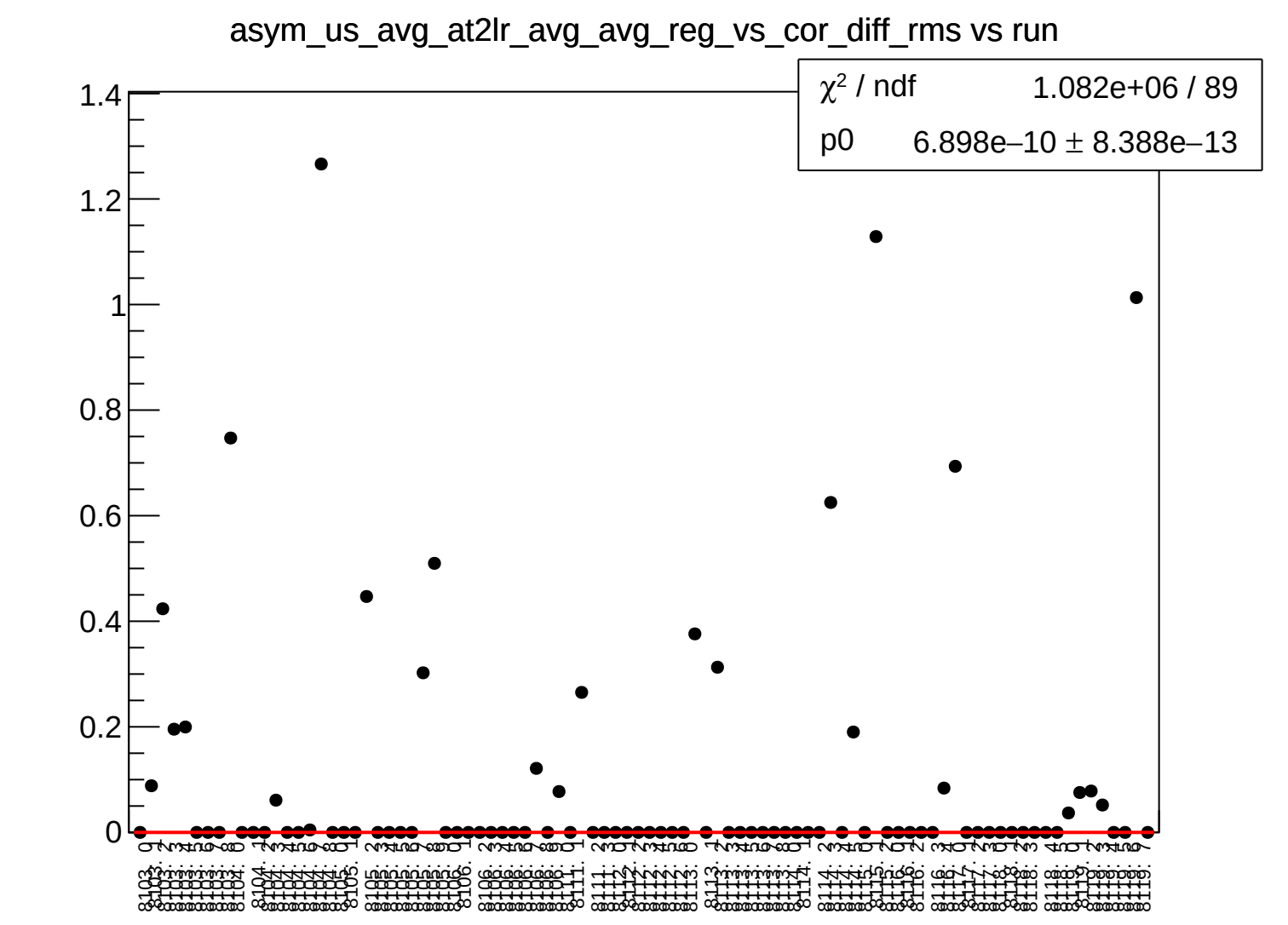

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3187 / 89
p0 1.141e+04 ± 8.613
13000
12500
12000
11500
11000
10500

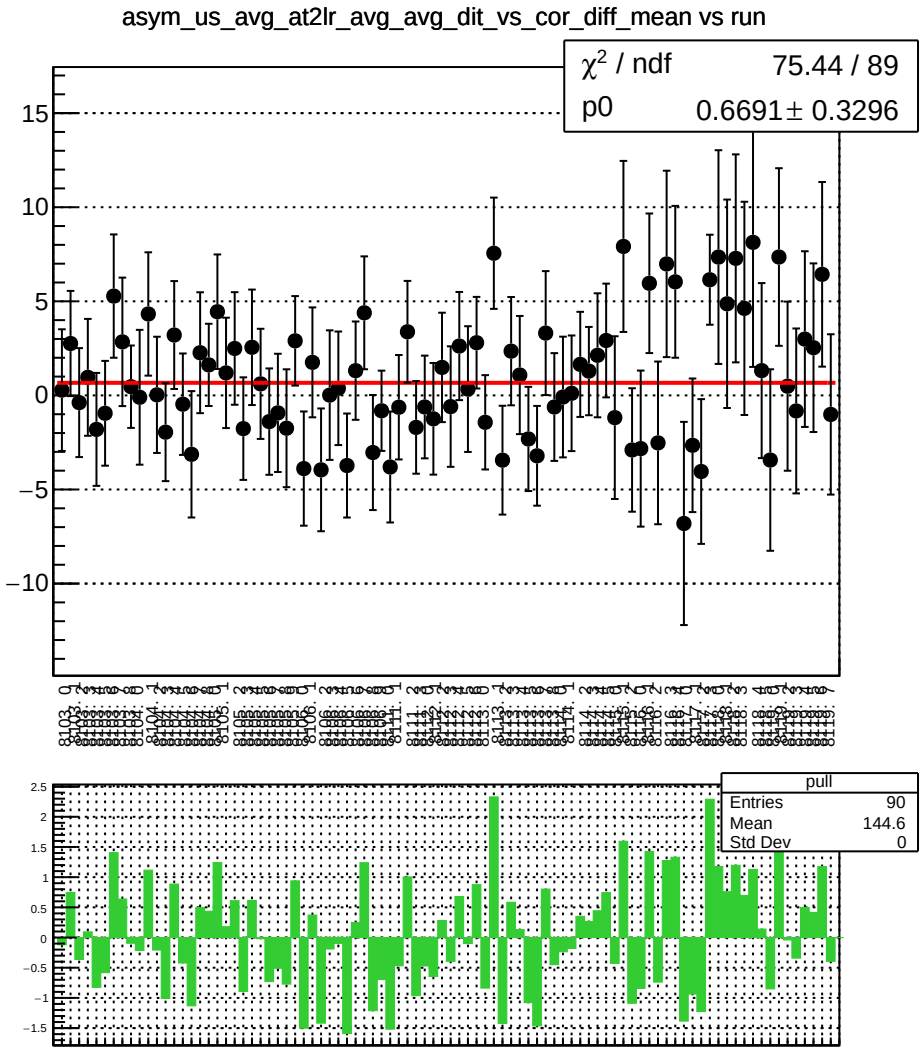

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 85.55 / 89
p0 −8875 ± 1.224e+04
400
200
0
−200
−400
pull
Entries 90
Mean 2615
Std Dev 0
3
2
1
0
−1
−2

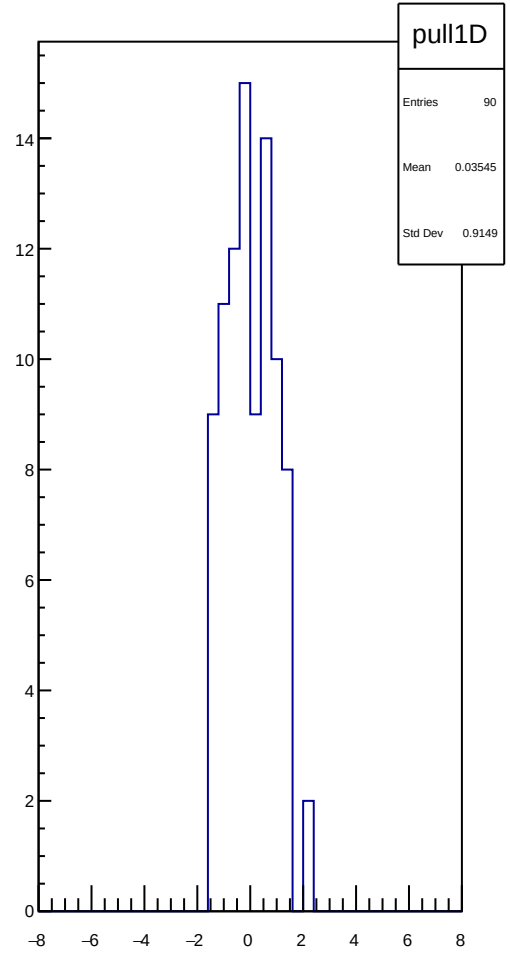

pull1D
Entries 90
Mean −0.002515
Std Dev 0.975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

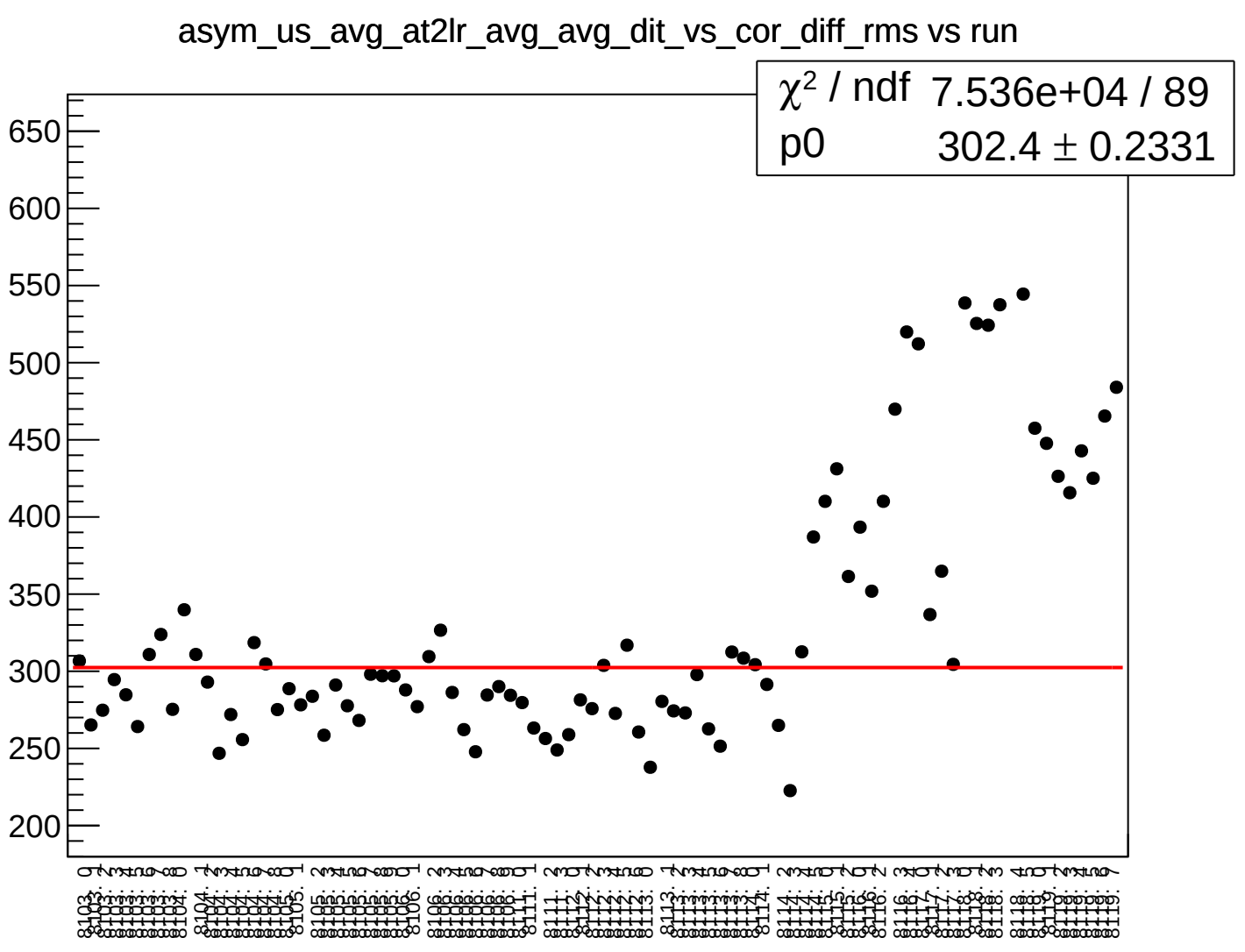

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3084 / 89
p0 1.147e+04 ± 8.655
12500
12000
11500
11000
10500

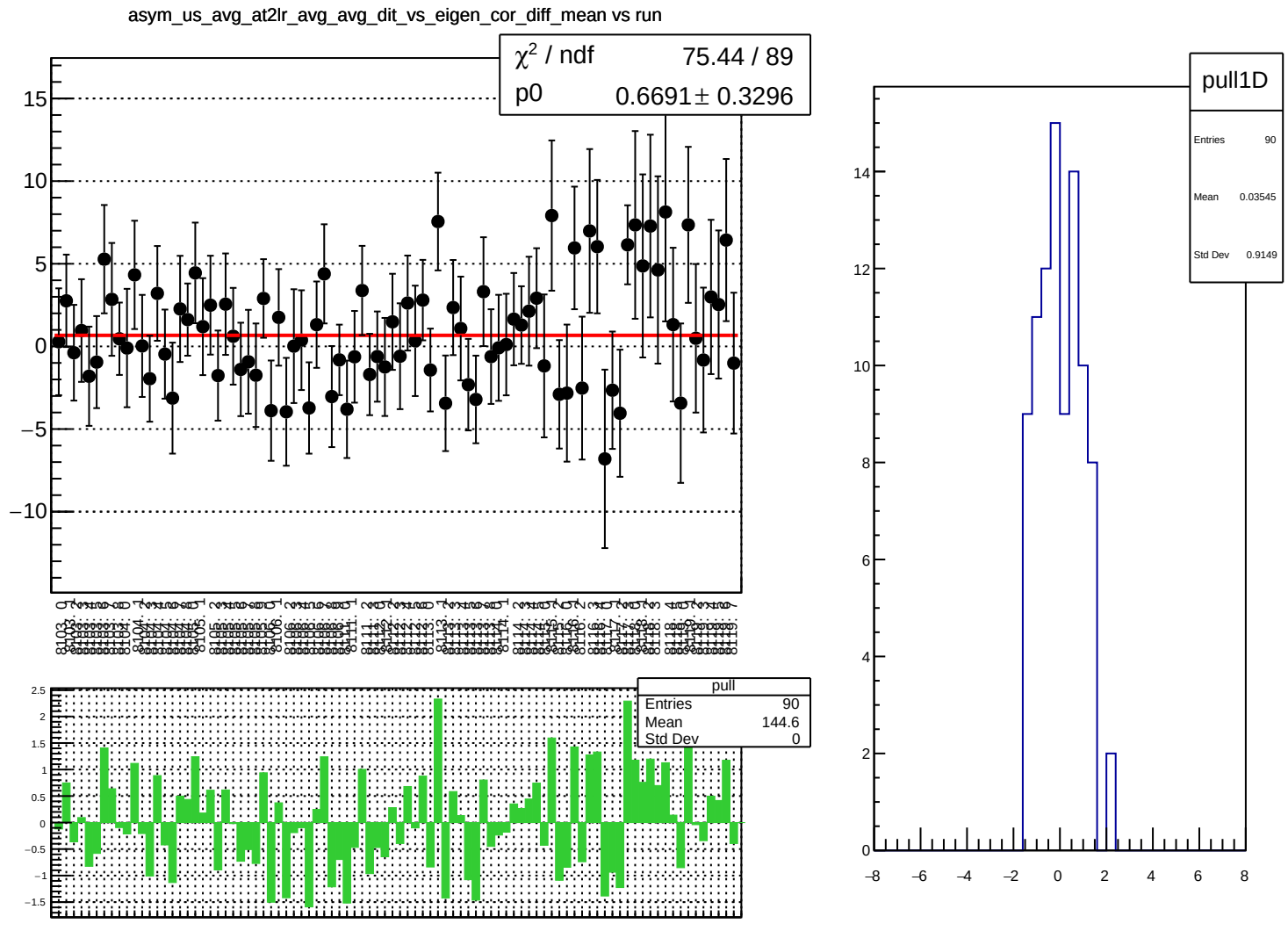

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.8 / 89
p0 1.98e−13 ± 1.186e−12
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean 162.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0169
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

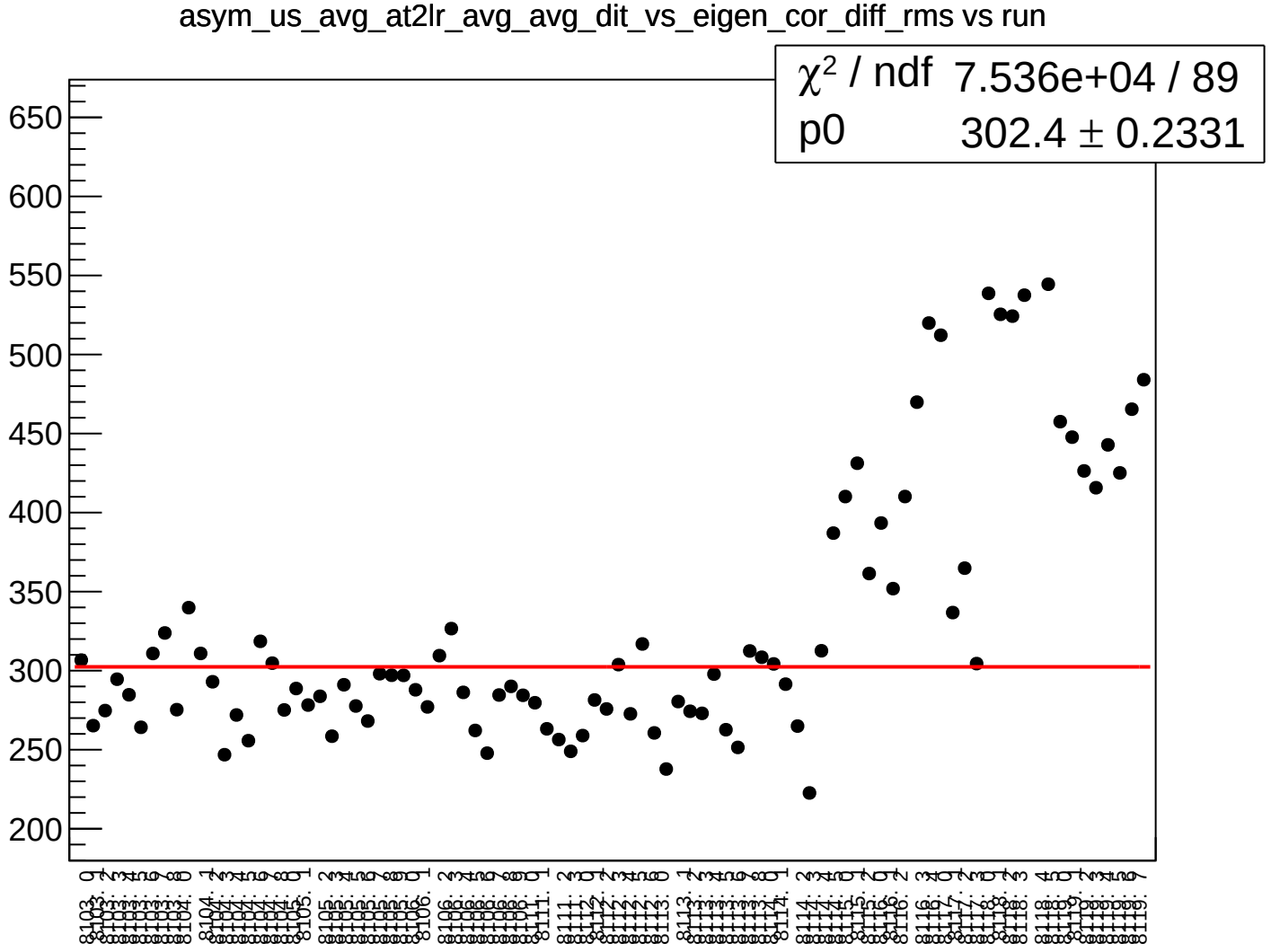

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 89
p0 6.898e−10 ± 8.388e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

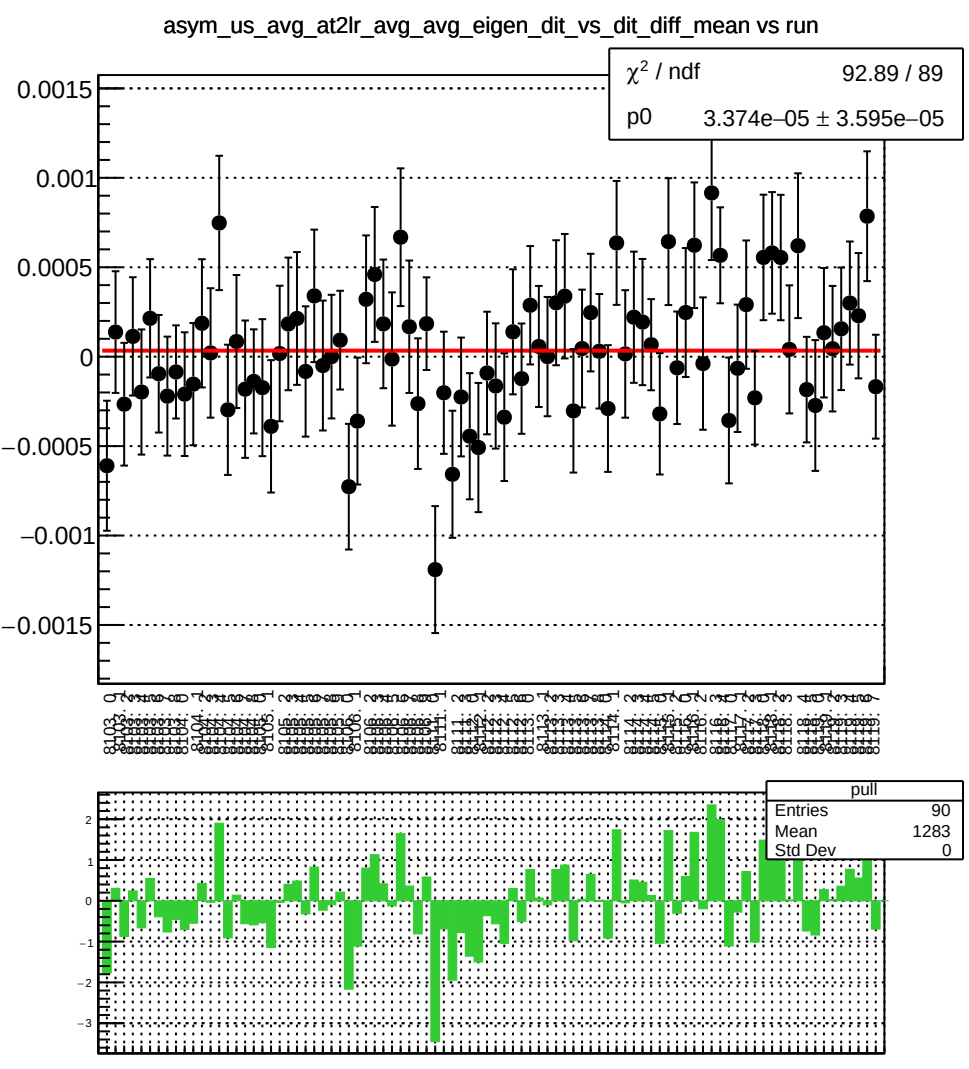

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.44 / 89
p0 0.6691 ± 0.3296
pull
Entries 90
Mean 144.6
Std Dev 0

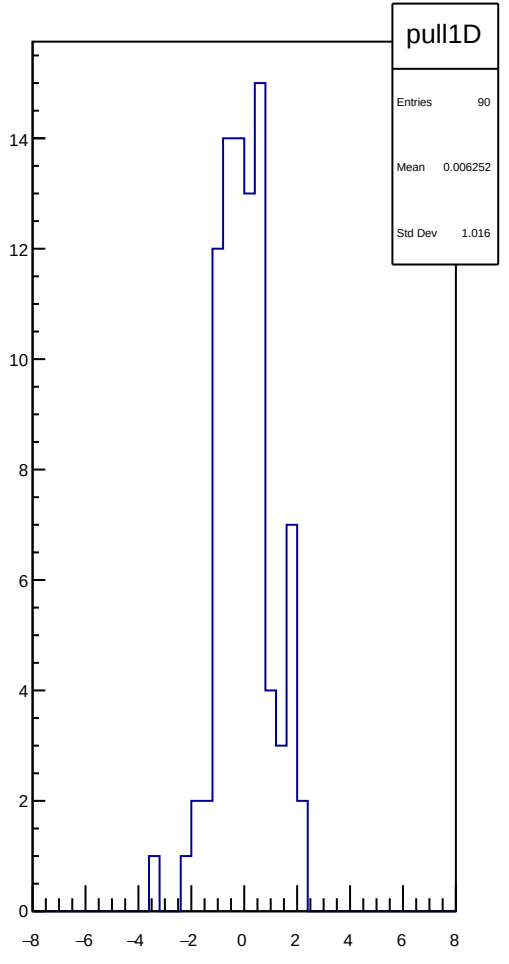

pull1D
Entries 90
Mean 0.03545
Std Dev 0.9149

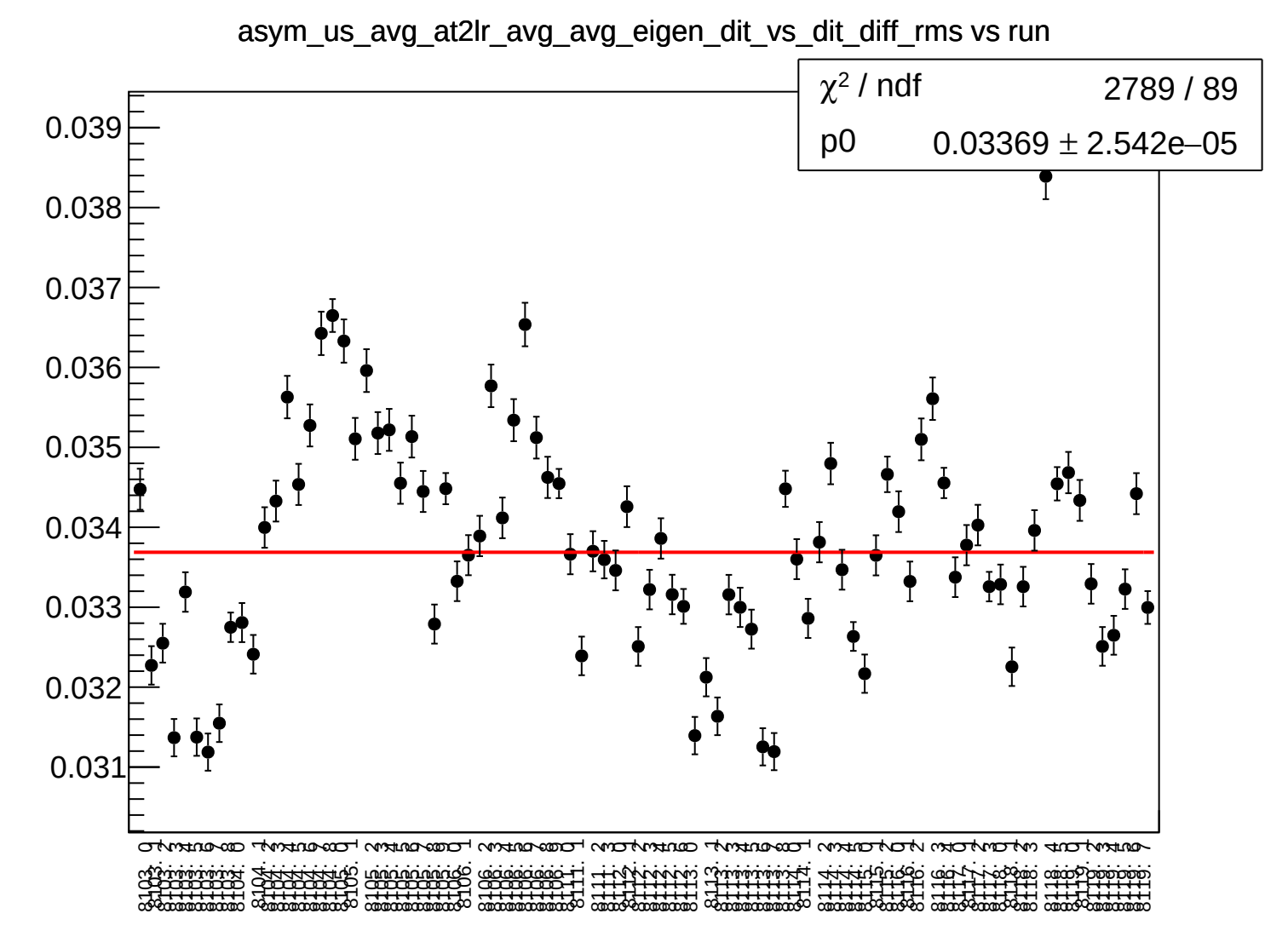

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.536e+04 / 89
p0 302.4 ± 0.2331
650
600
550
500
450
400
350
300
250
200

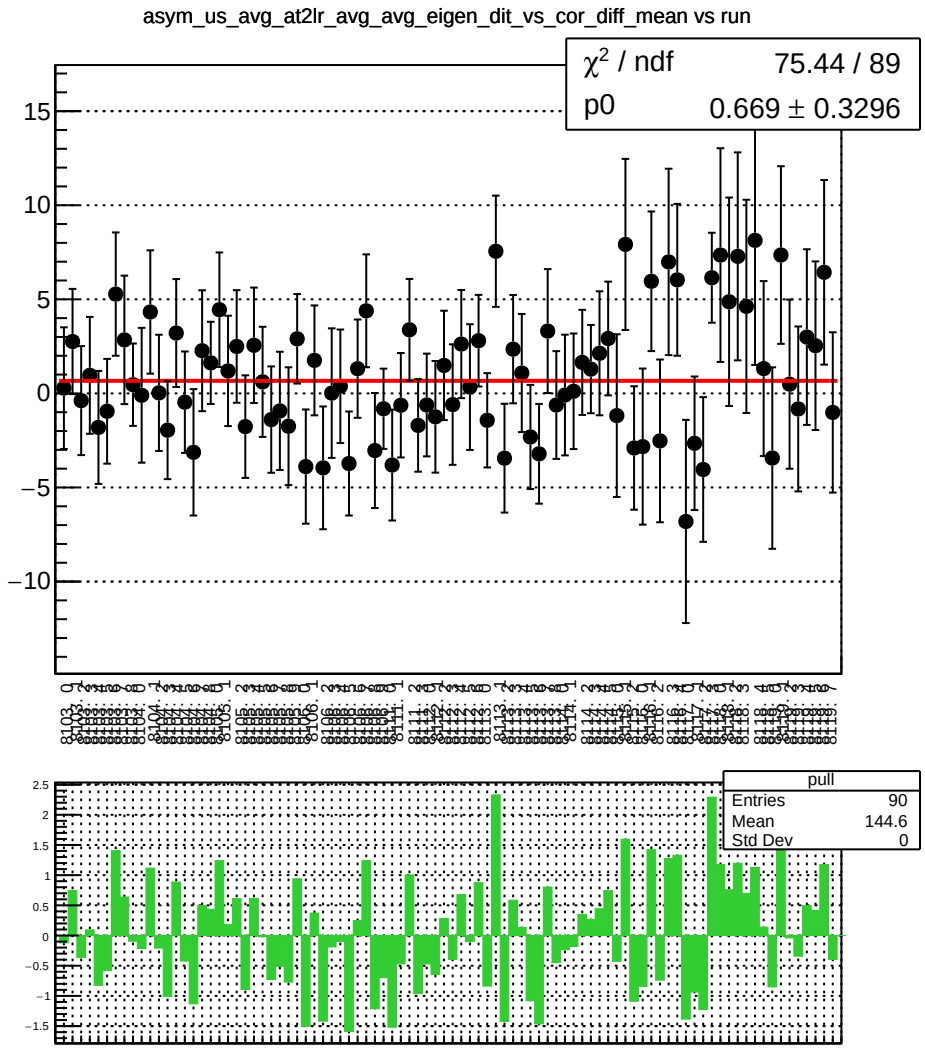

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.44 / 89
p0 0.6691 ± 0.3296
pull
Entries 90
Mean 144.6
Std Dev 0
pull1D
Entries 90
Mean 0.03545
Std Dev 0.9149

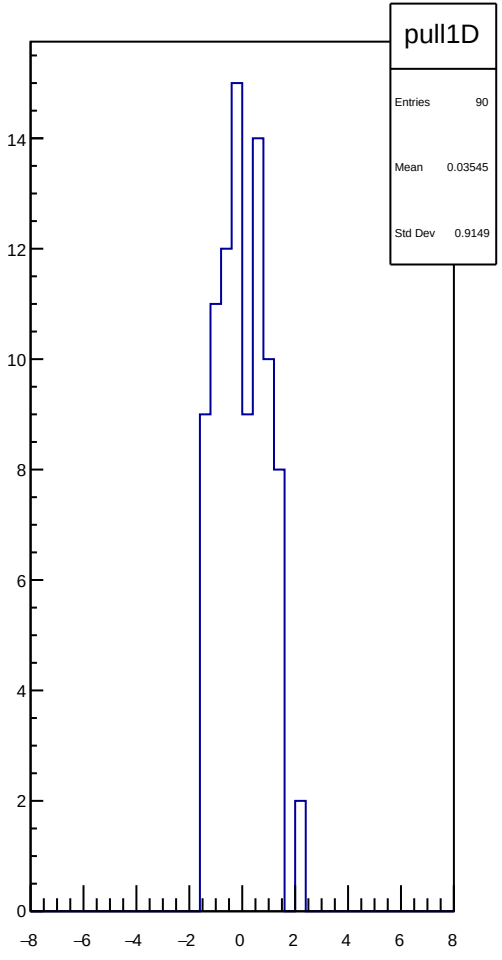

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.536e+04 / 89
p0 302.4 ± 0.2331
650
600
550
500
450
400
350
300
250
200

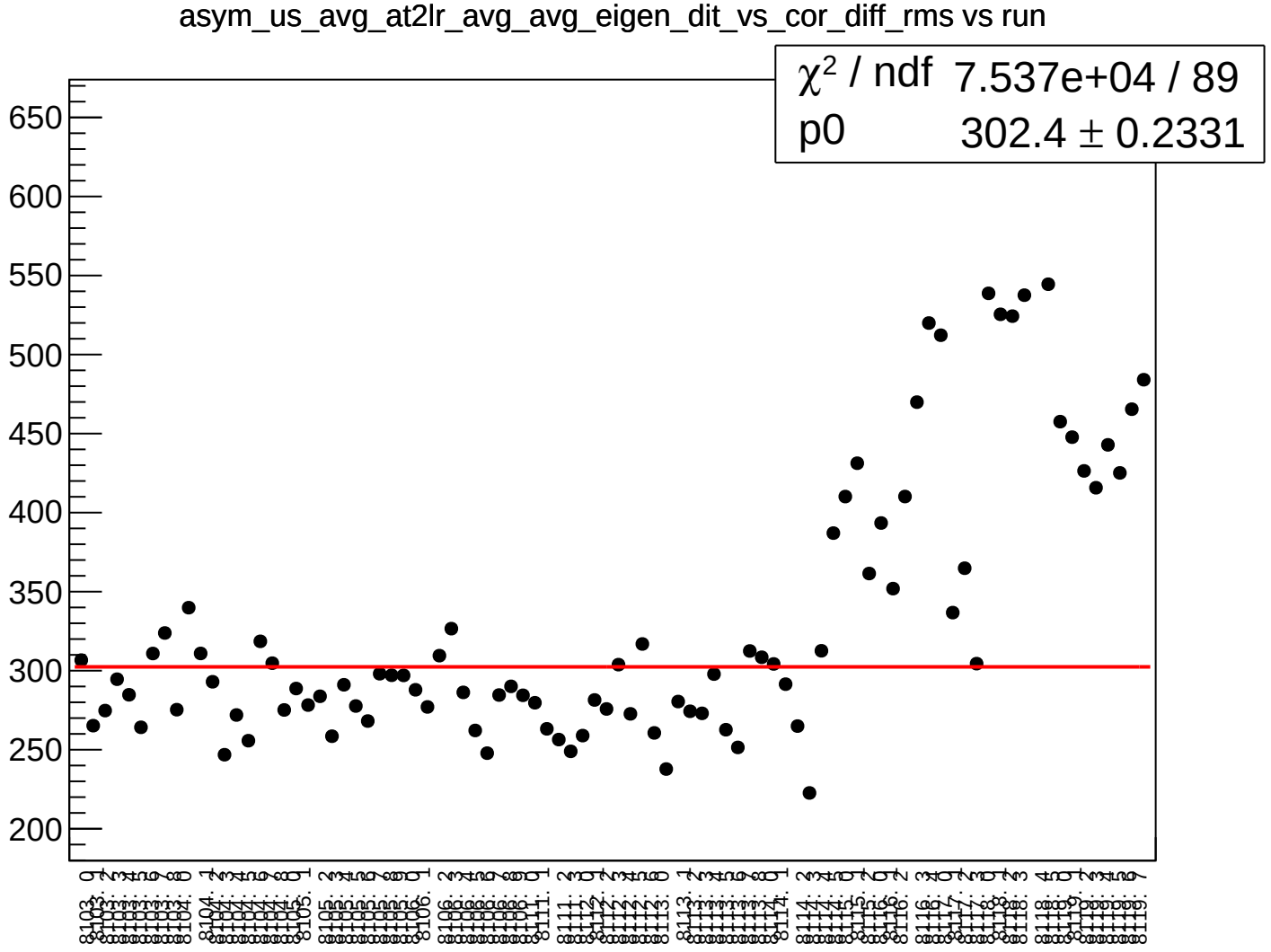

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.89 / 89
p0 3.374e−05 ± 3.595e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 90
Mean 1283
Std Dev 0
2
1
0
−1
−2
−3

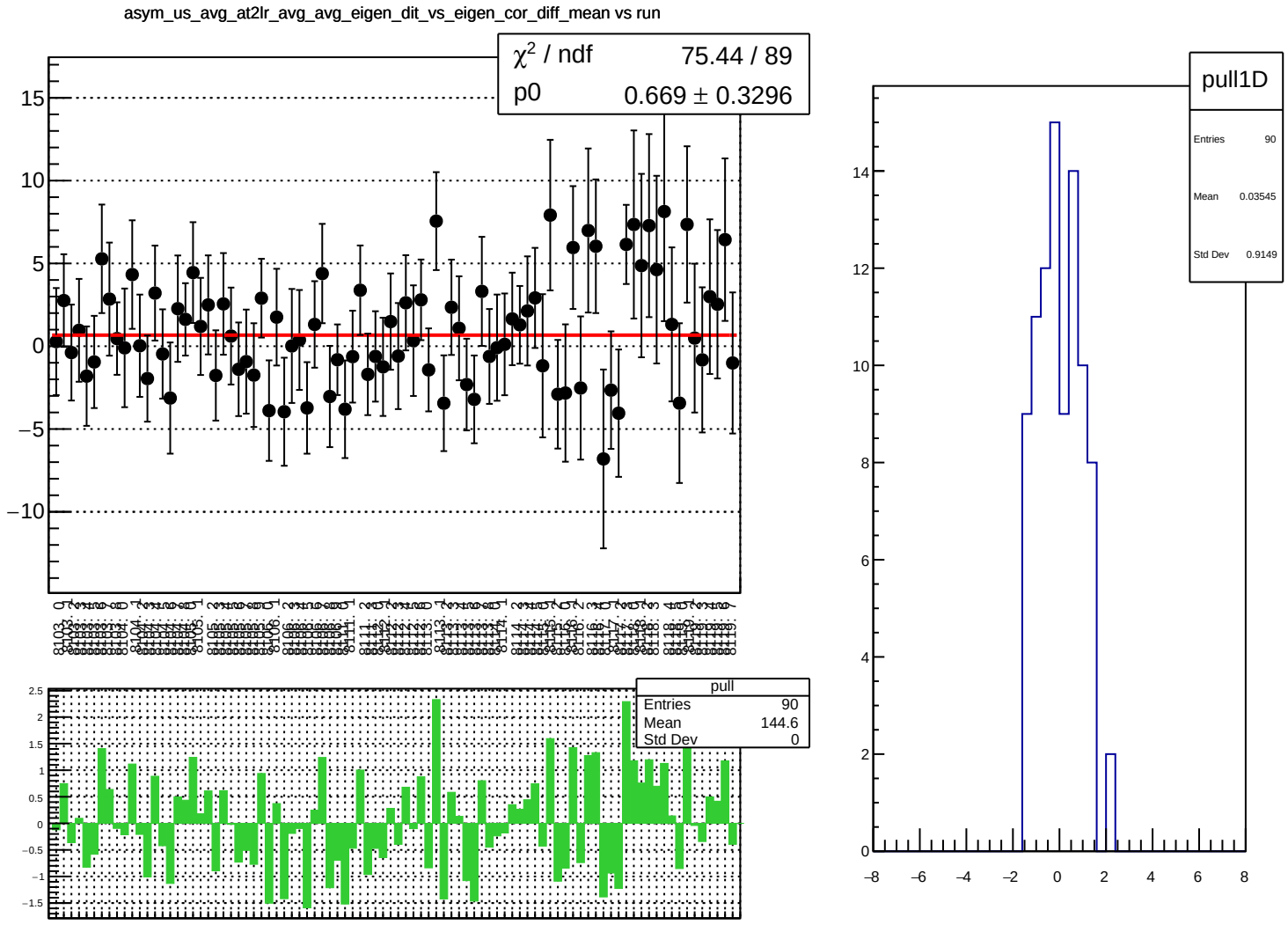

pull1D
Entries 90
Mean 0.006252
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

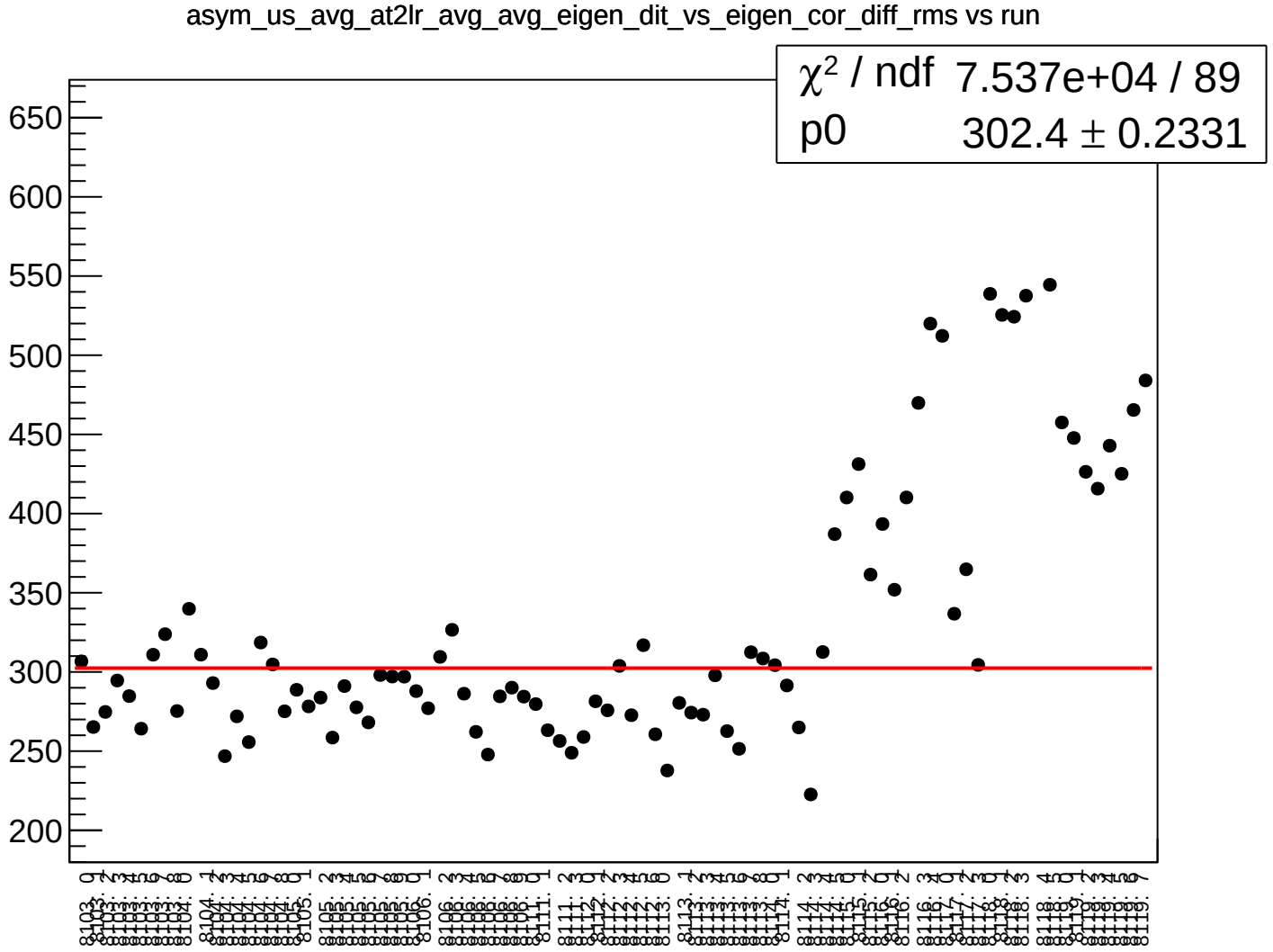

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2789 / 89
p0 0.03369 ± 2.542e−05
0.039
0.038
0.037
0.036
0.035
0.034
0.033
0.032
0.031

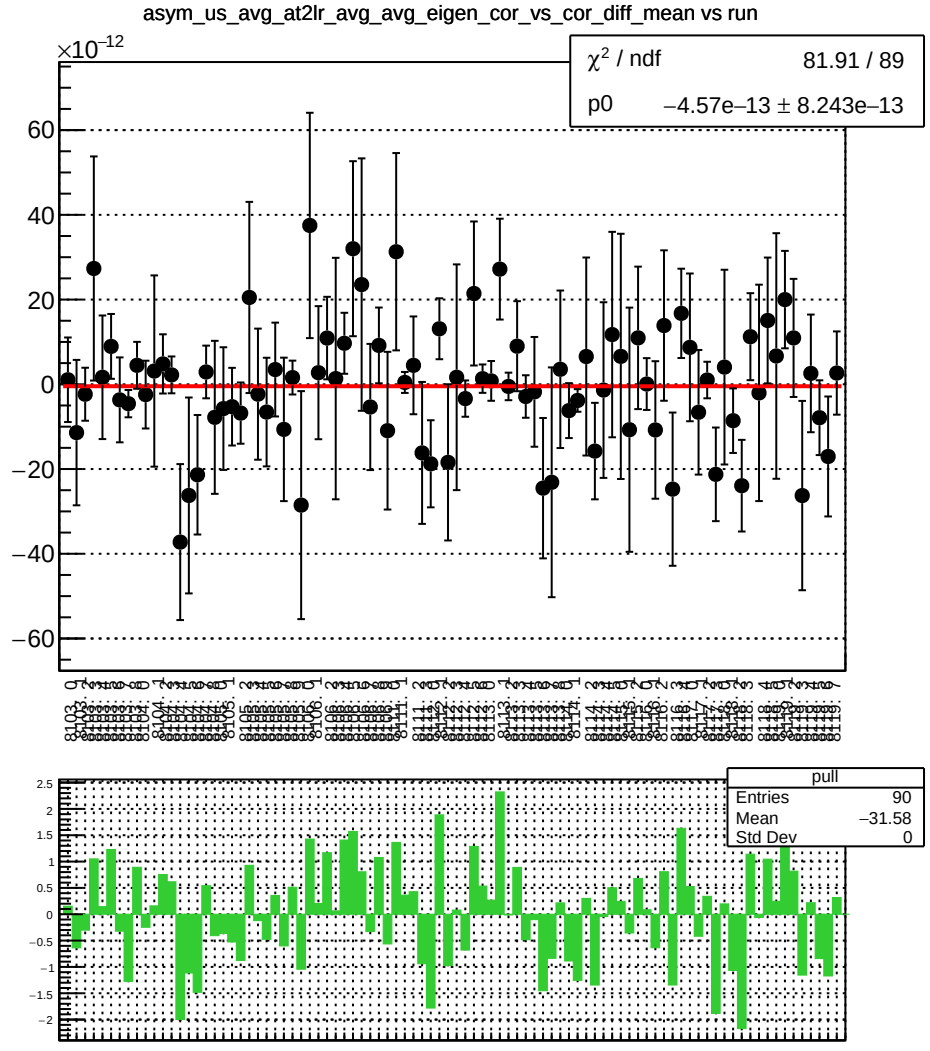

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.44 / 89
p0 0.669 ± 0.3296
pull
Entries 90
Mean 144.6
Std Dev 0

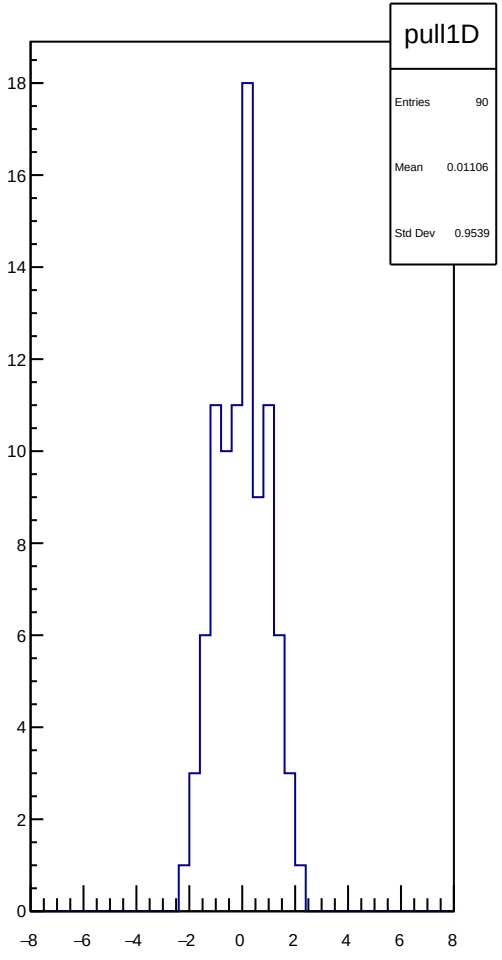

pull1D
Entries 90
Mean 0.03545
Std Dev 0.9149

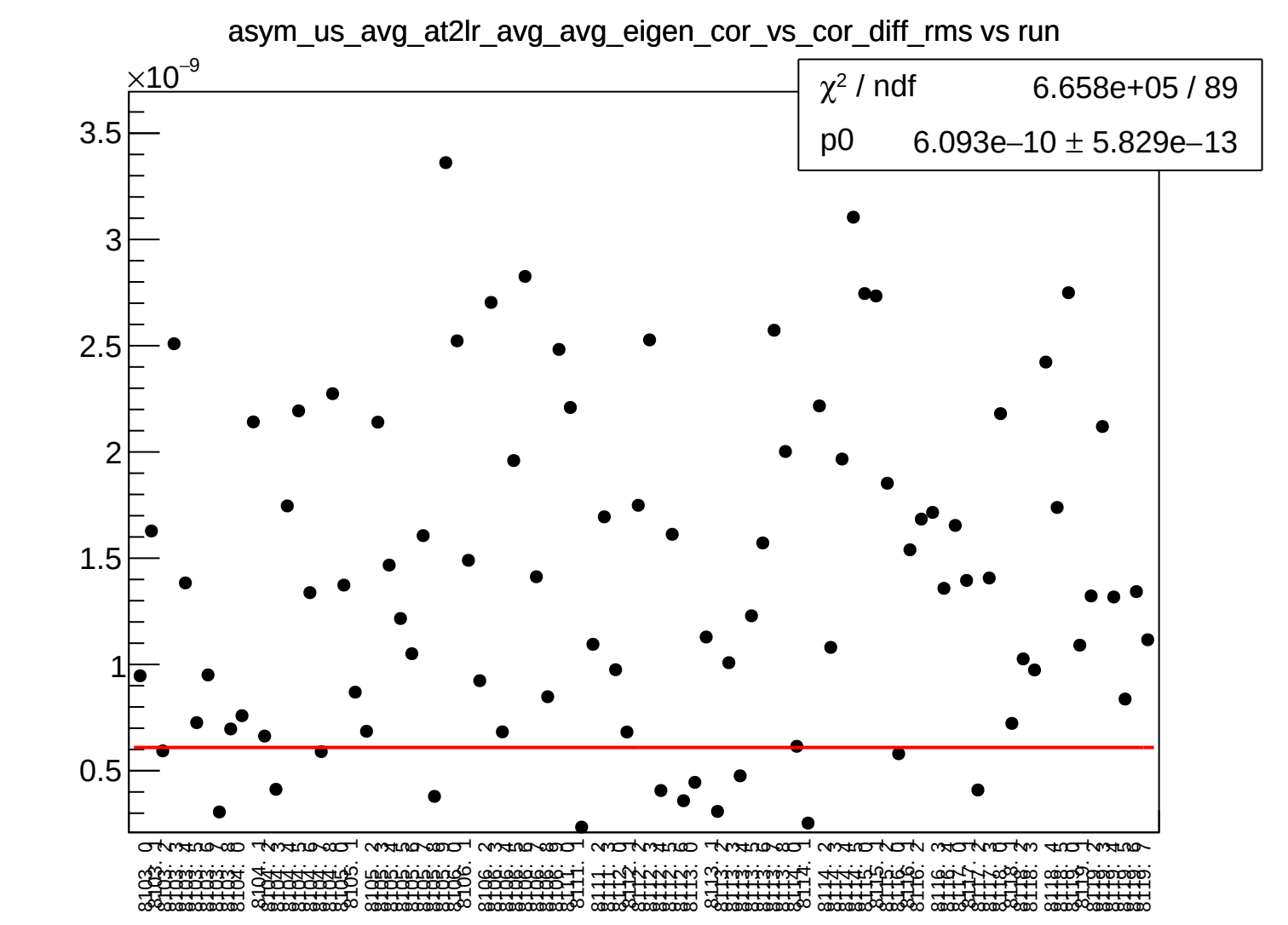

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.537e+04 / 89
p0 302.4 ± 0.2331
650
600
550
500
450
400
350
300
250
200

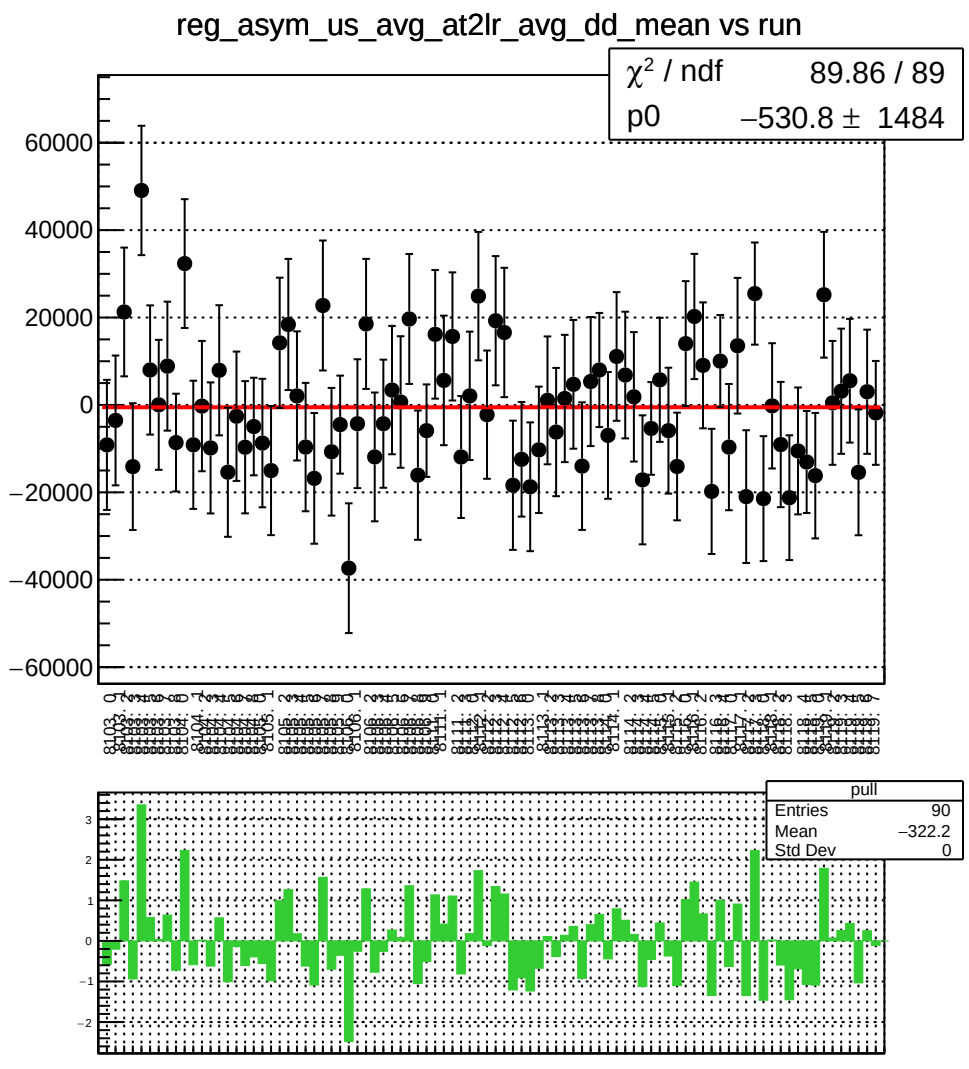

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.44 / 89
p0 0.669 ± 0.3296
pull
Entries 90
Mean 144.6
Std Dev 0
pull1D
Entries 90
Mean 0.03545
Std Dev 0.9149

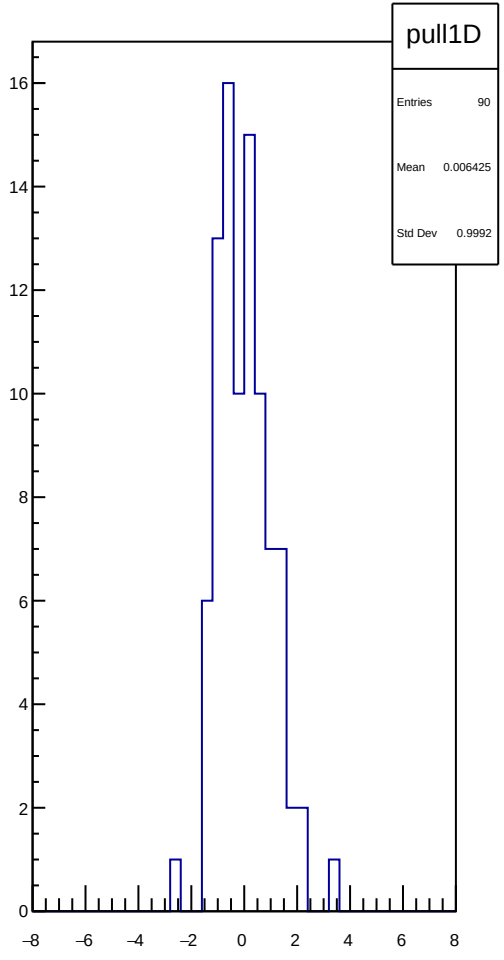

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.537e+04 / 89
p0 302.4 ± 0.2331
650
600
550
500
450
400
350
300
250
200

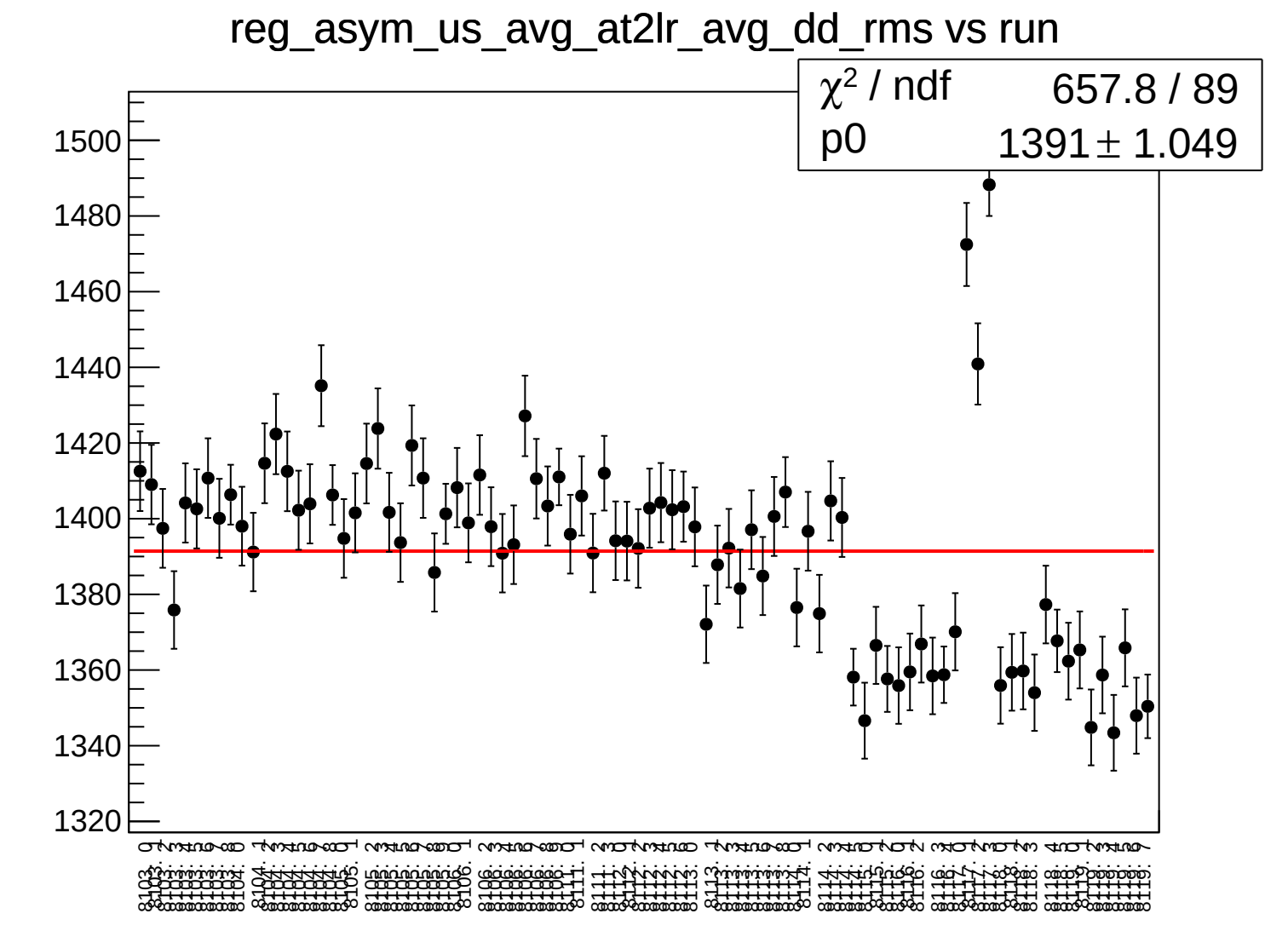

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.91 / 89
p0 −4.57e−13 ± 8.243e−13
pull
Entries 90
Mean −31.58
Std Dev 0

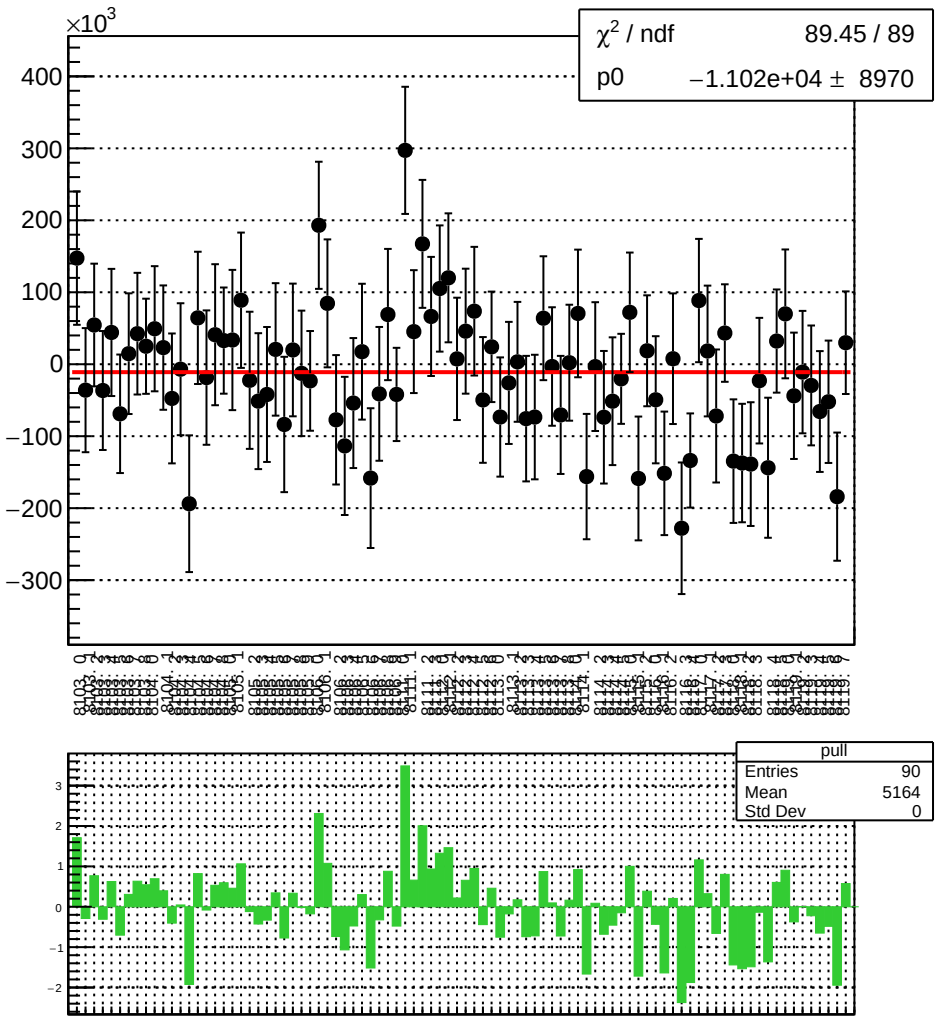

pull1D
Entries 90
Mean 0.01106
Std Dev 0.9539

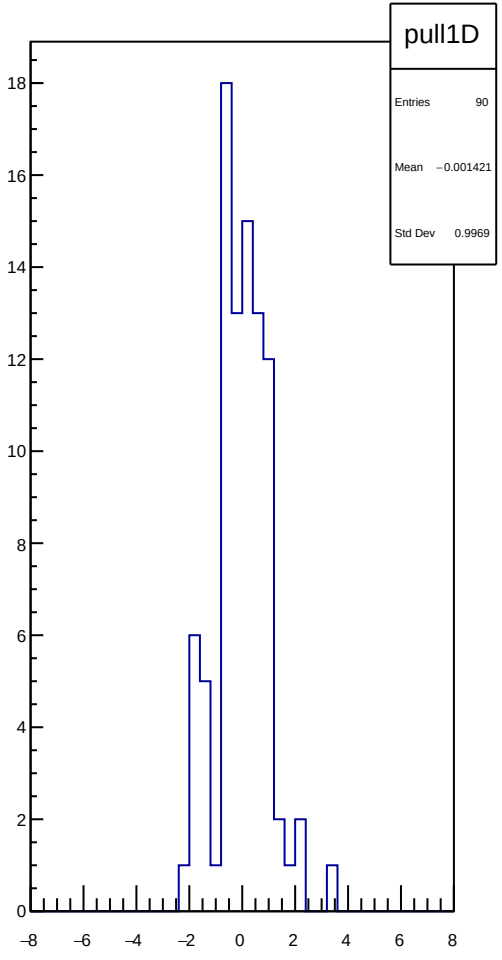

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.658e+05 / 89
p0 6.093e−10 ± 5.829e−13
3.5
3
2.5
2
1.5
1
0.5

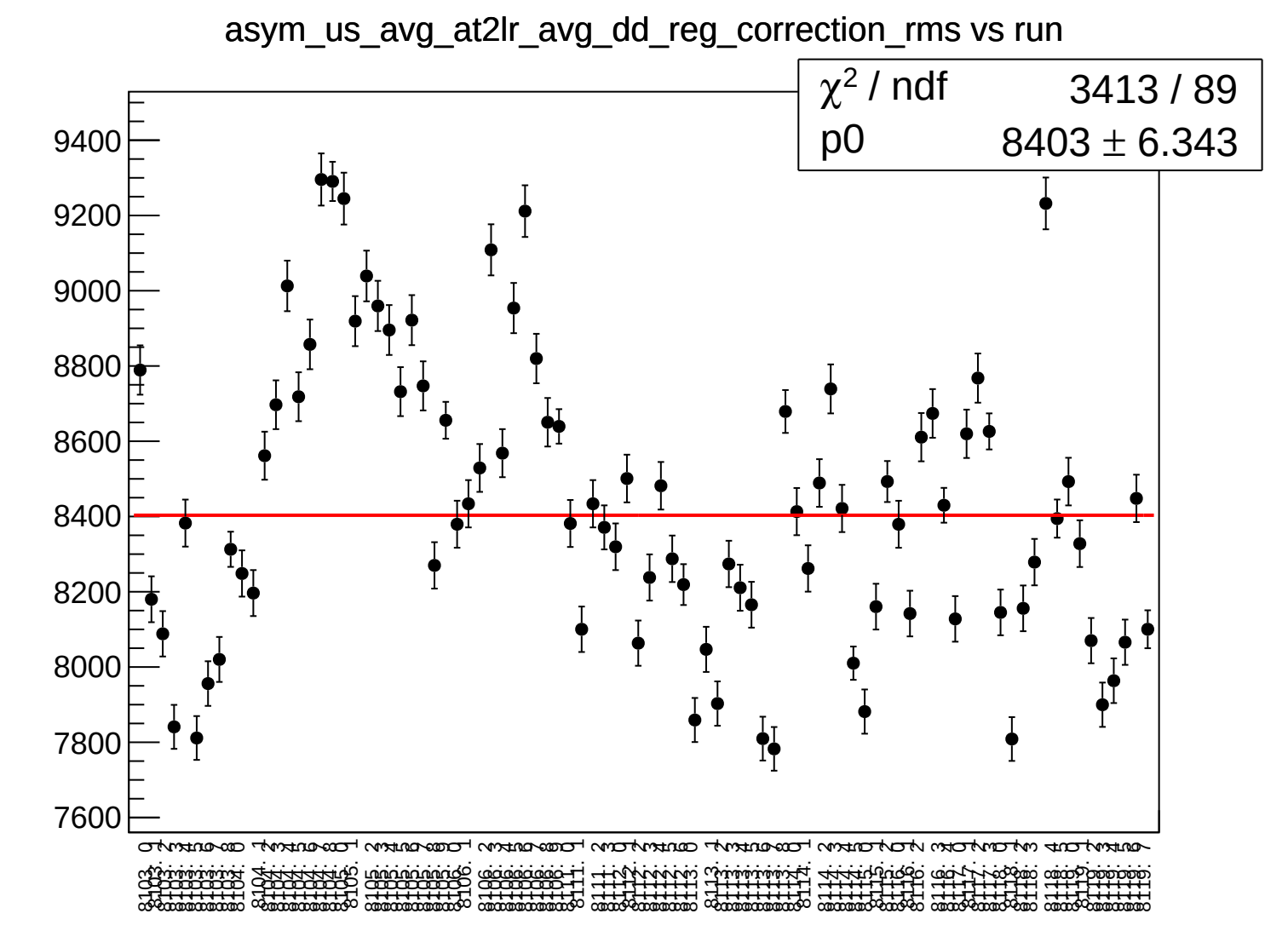

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.86 / 89
p0 −530.8 ± 1484
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −322.2
Std Dev 0
3
2
1
0
−1
−2

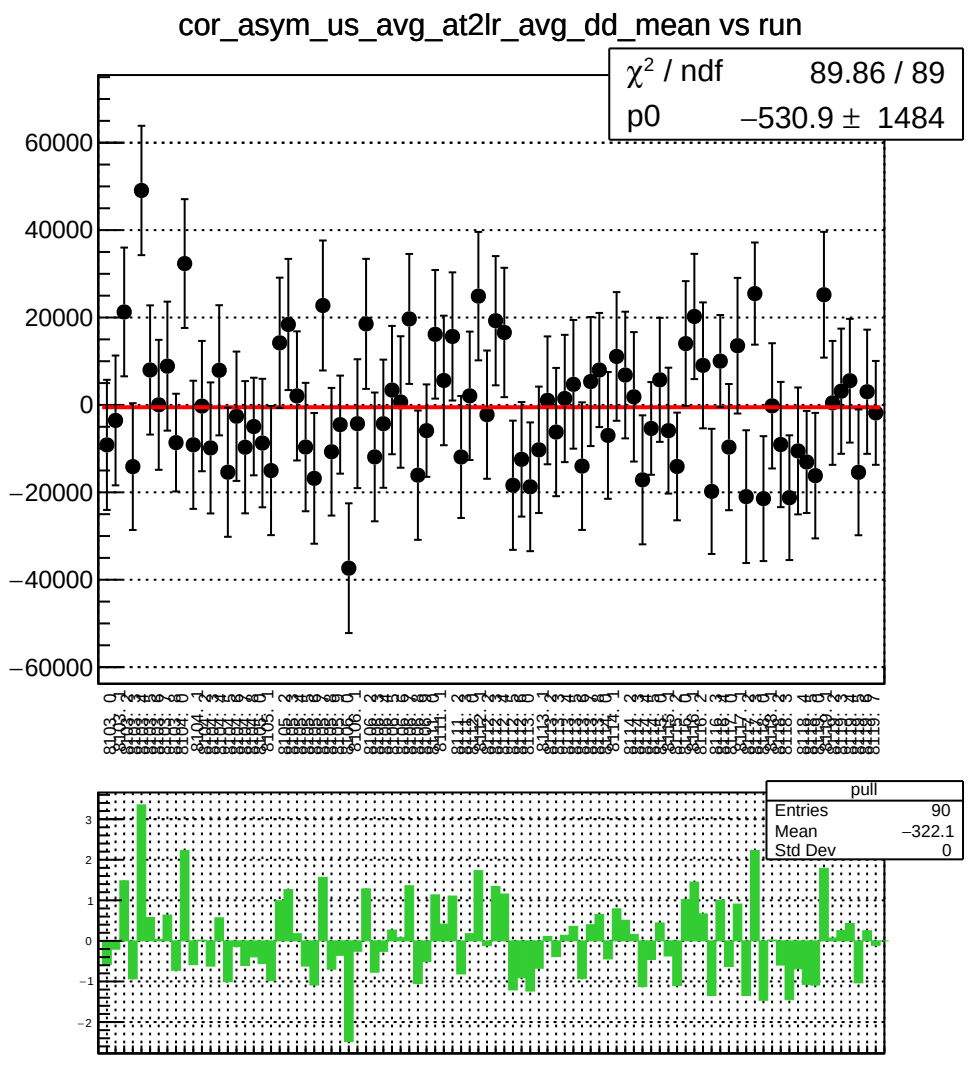

pull1D
Entries 90
Mean 0.006425
Std Dev 0.9992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

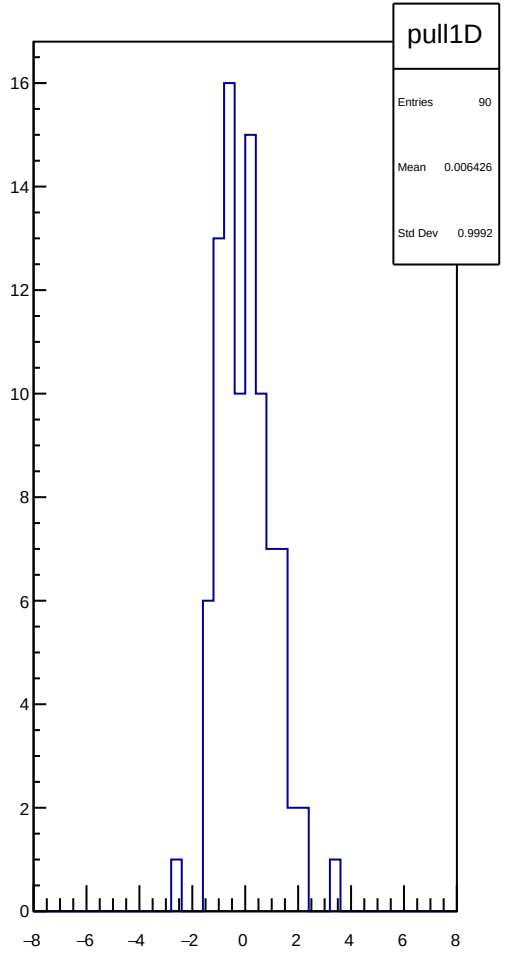

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 657.8 / 89
p0 1391 ± 1.049
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

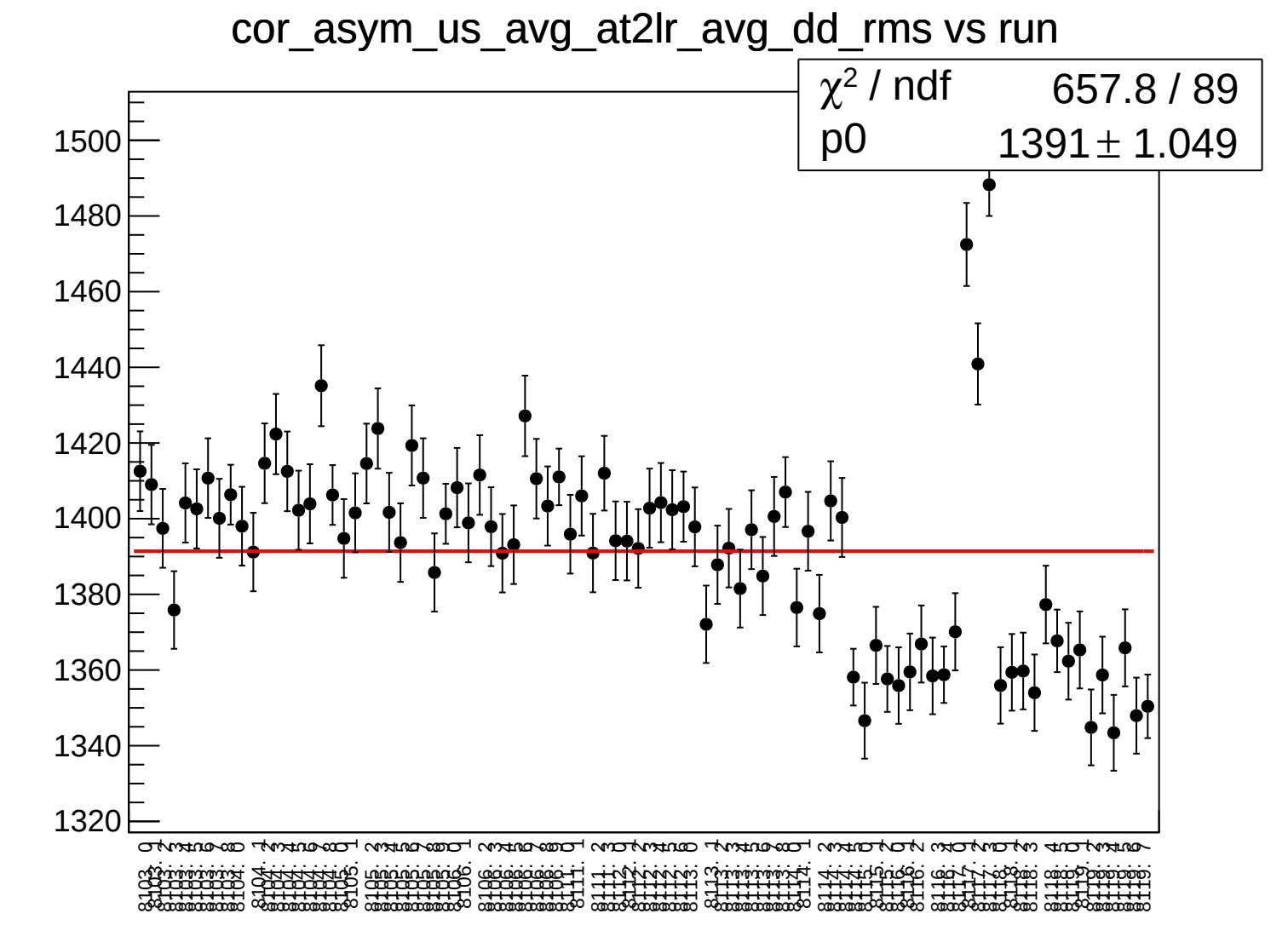

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.45 / 89
p0 −1.102e+04 ± 8970
pull
Entries 90
Mean 5164
Std Dev 0

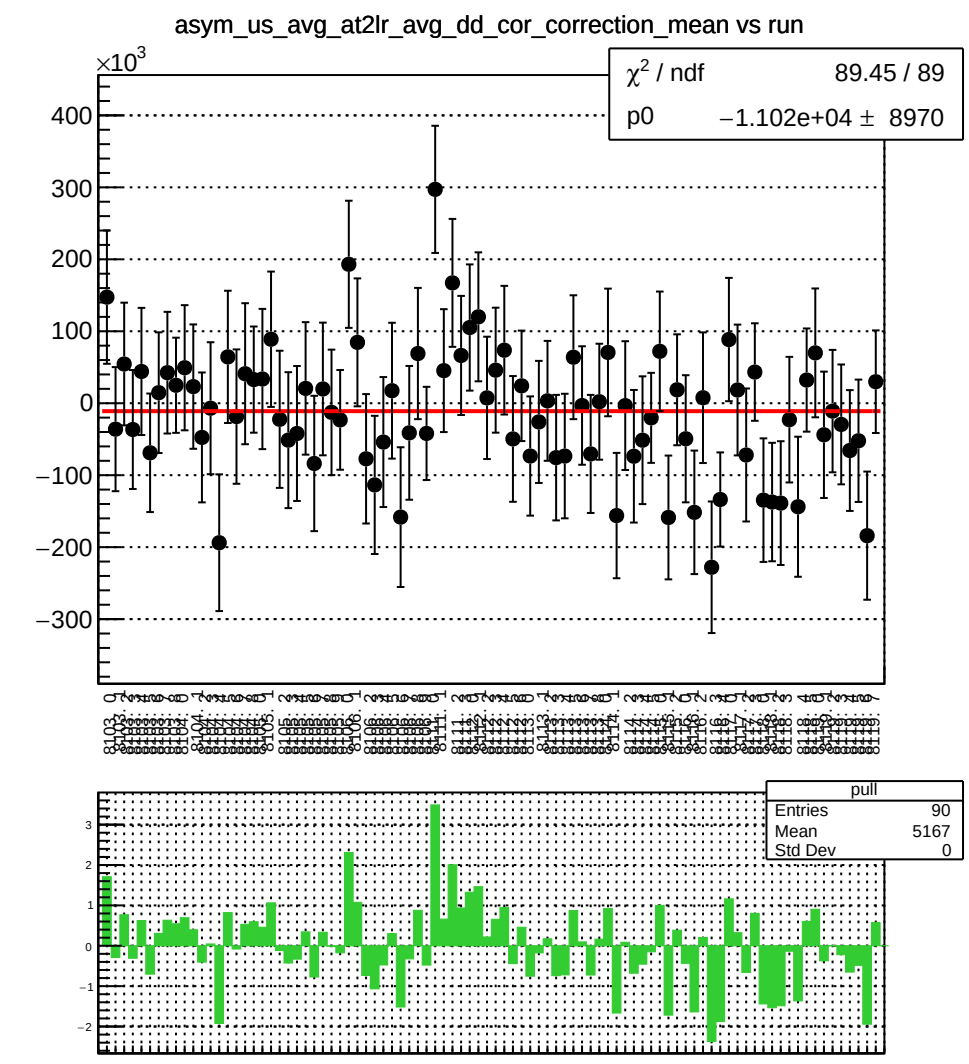

pull1D
Entries 90
Mean −0.001421
Std Dev 0.9969

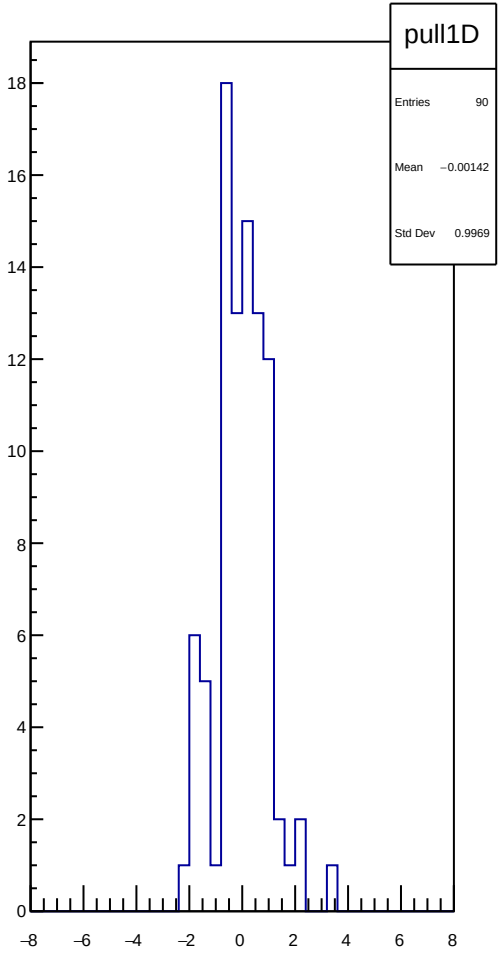

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3413 / 89
p0 8403 ± 6.343
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

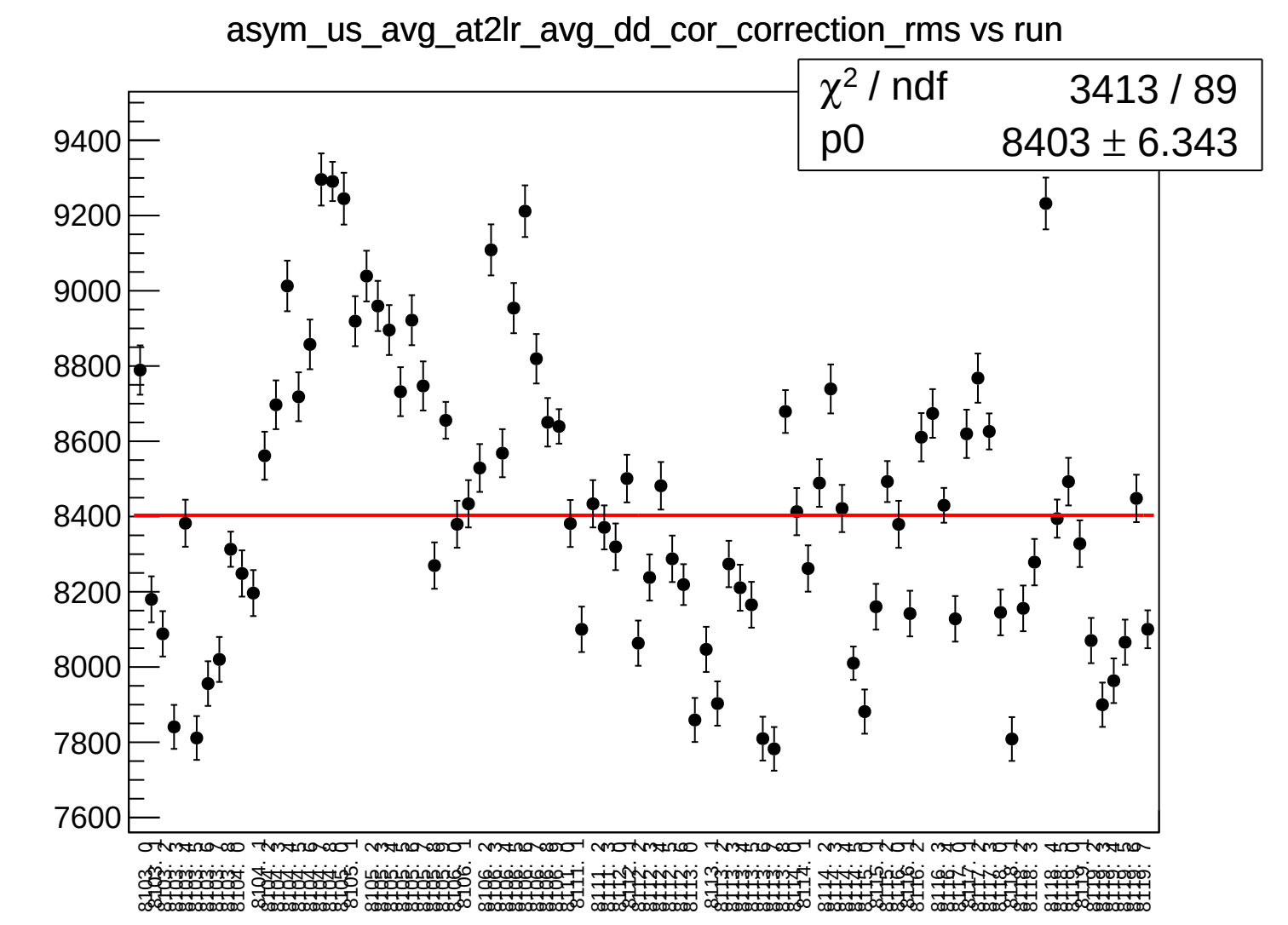

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.86 / 89
p0 −530.9 ± 1484
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −322.1
Std Dev 0
3
2
1
0
−1
−2

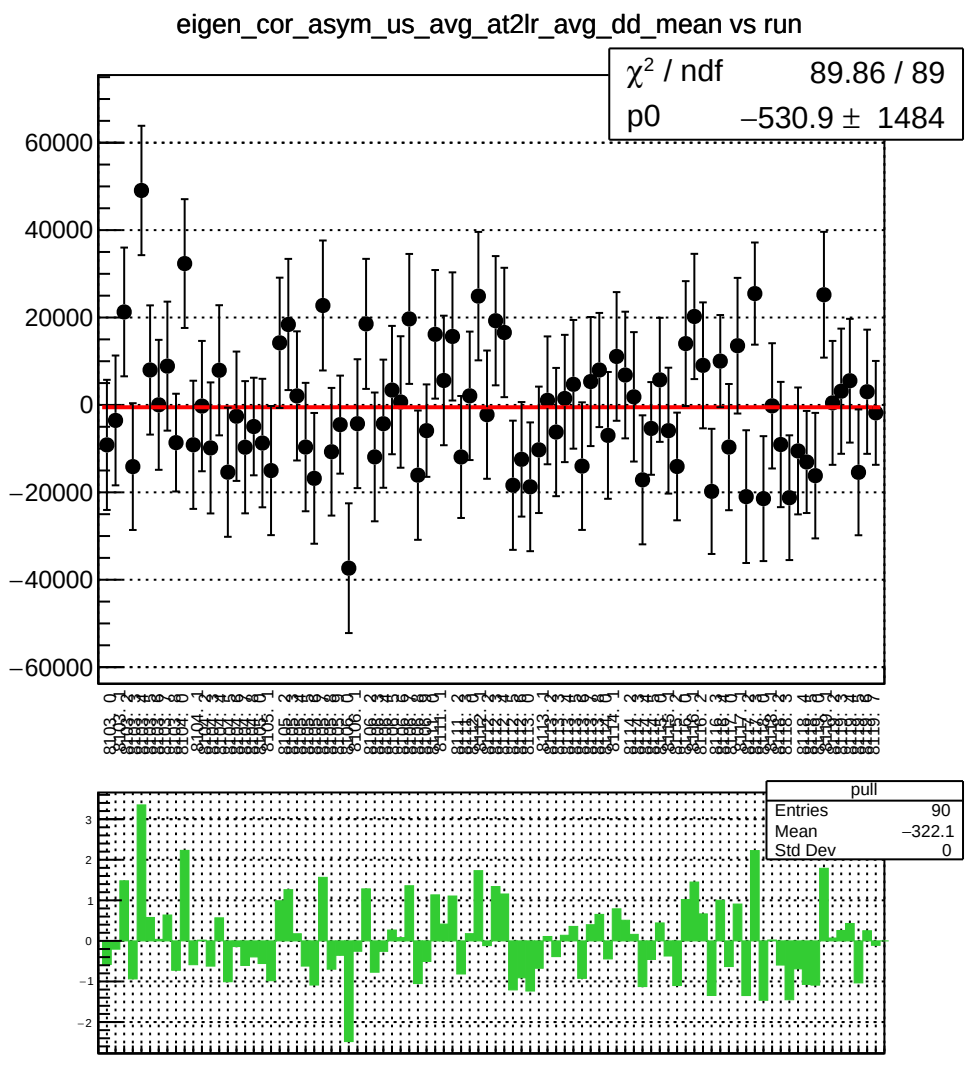

pull1D
Entries 90
Mean 0.006426
Std Dev 0.9992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

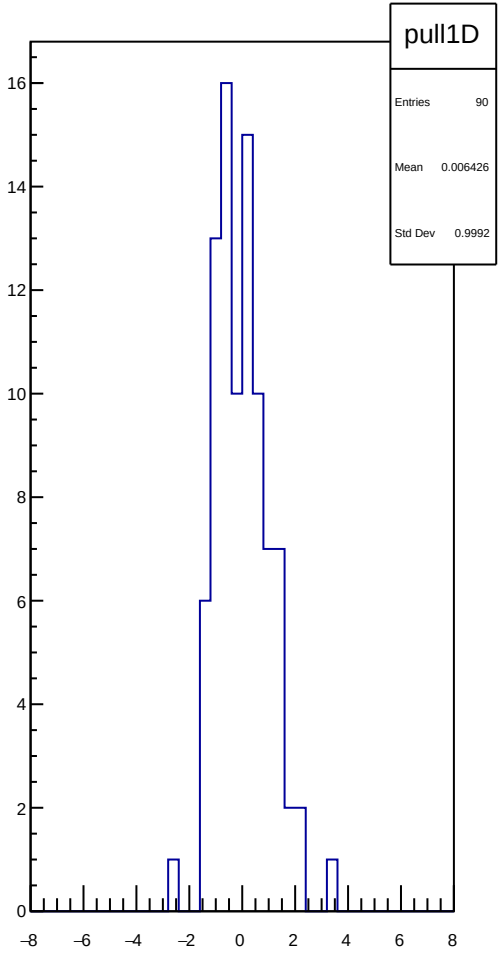

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 657.8 / 89
p0 1391 ± 1.049
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

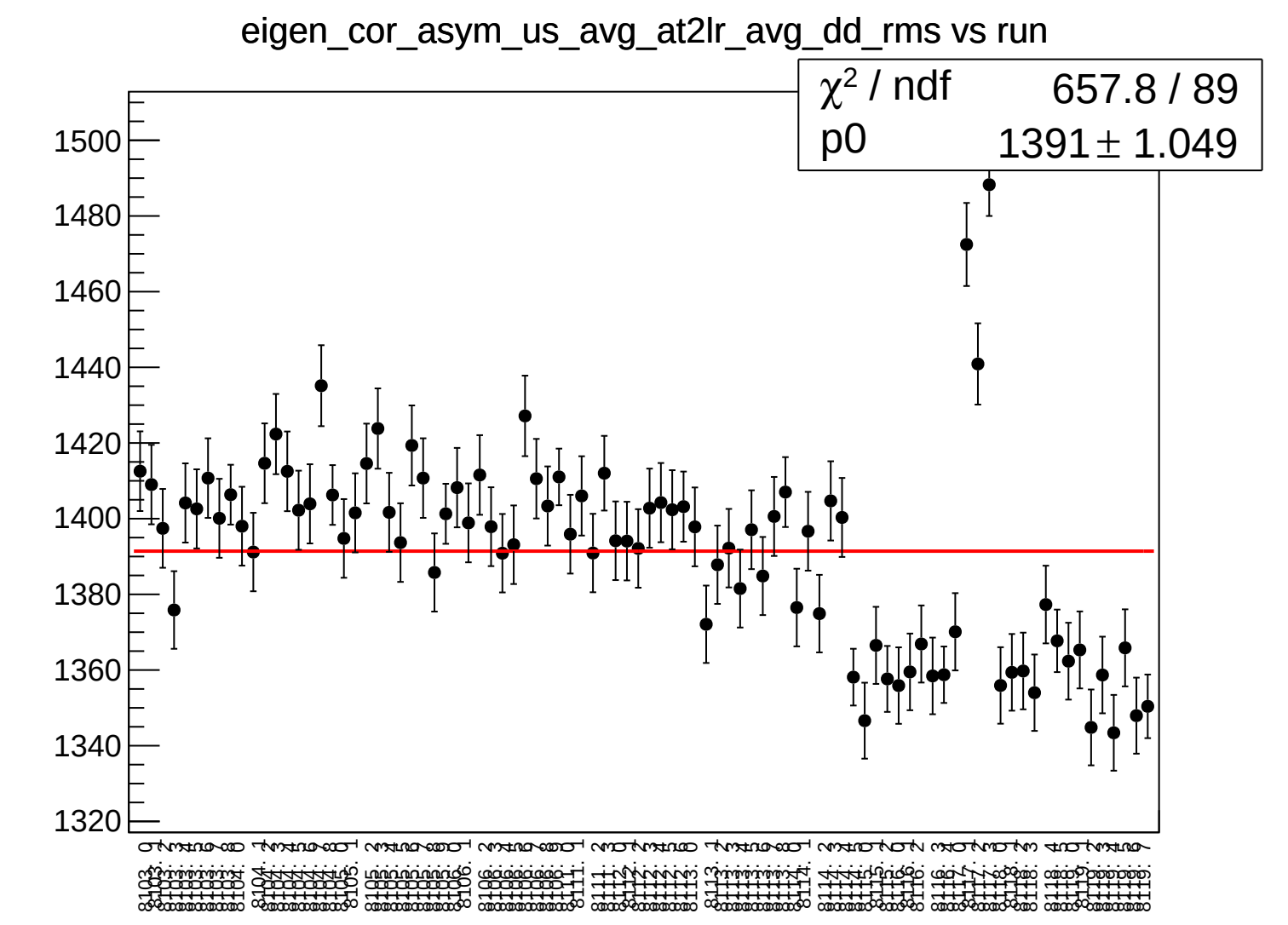

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.45 / 89
p0 −1.102e+04 ± 8970
pull
Entries 90
Mean 5167
Std Dev 0

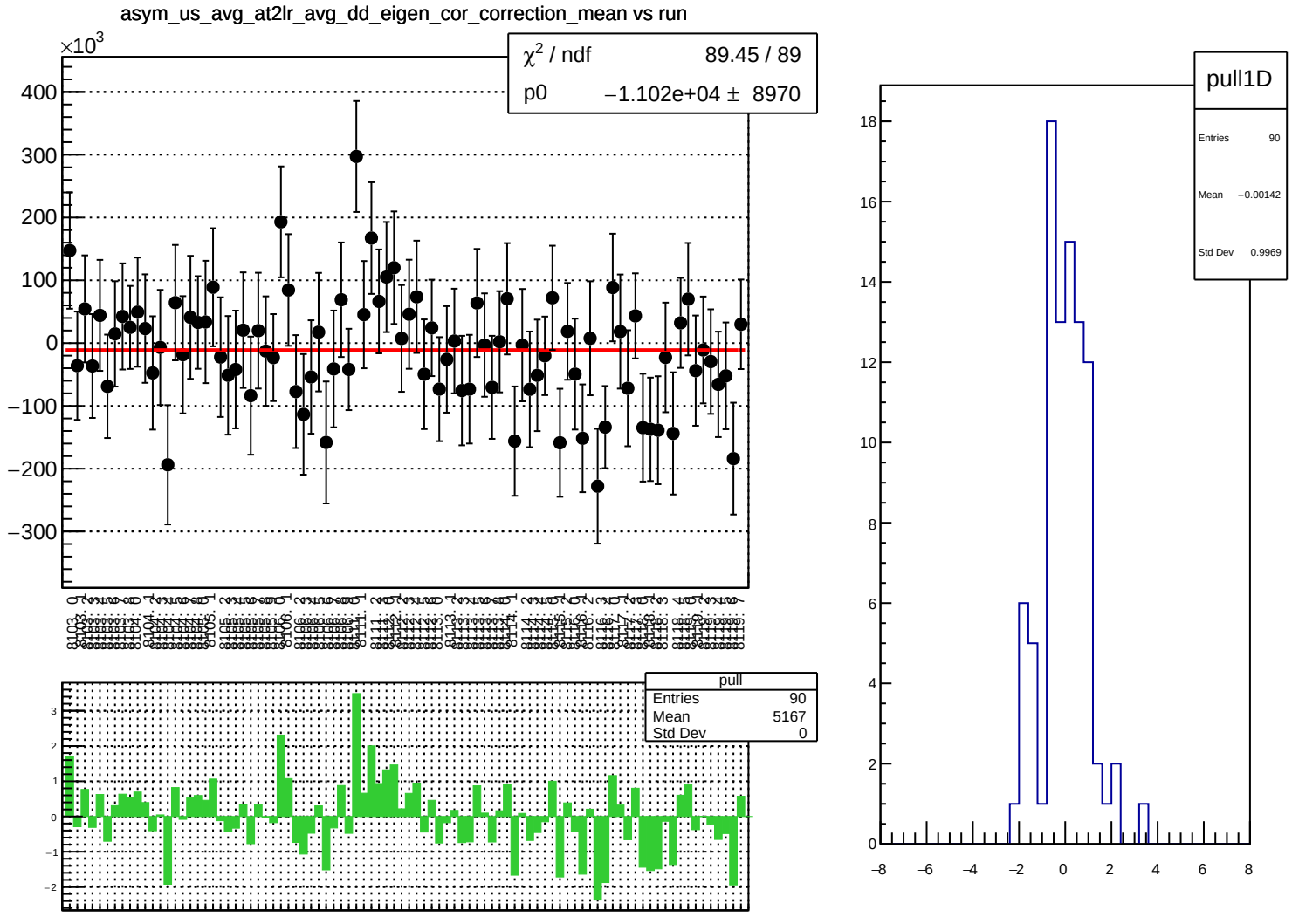

pull1D
Entries 90
Mean −0.00142
Std Dev 0.9969

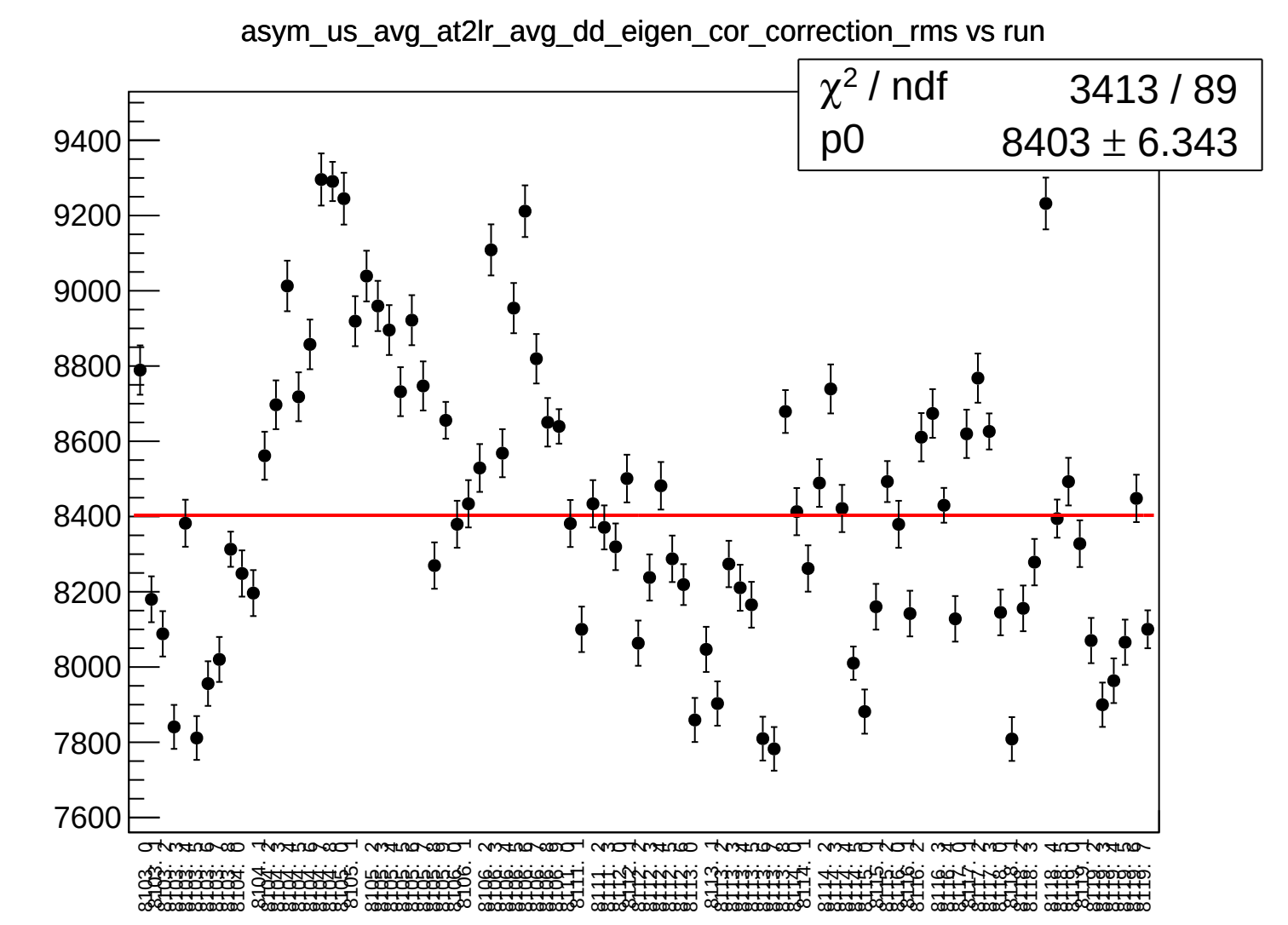

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3413 / 89
p0 8403 ± 6.343
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

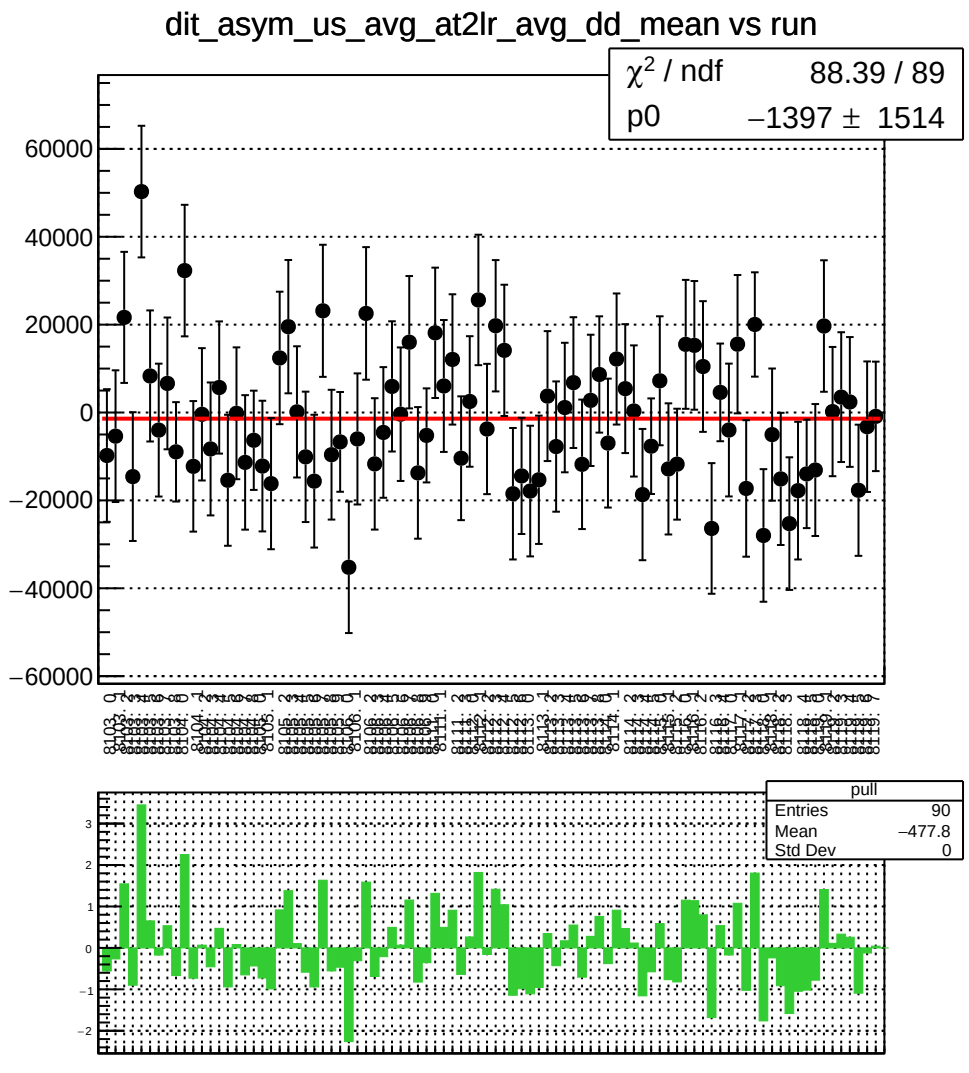

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.86 / 89
p0 −530.9 ± 1484
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −322.1
Std Dev 0
3
2
1
0
−1
−2

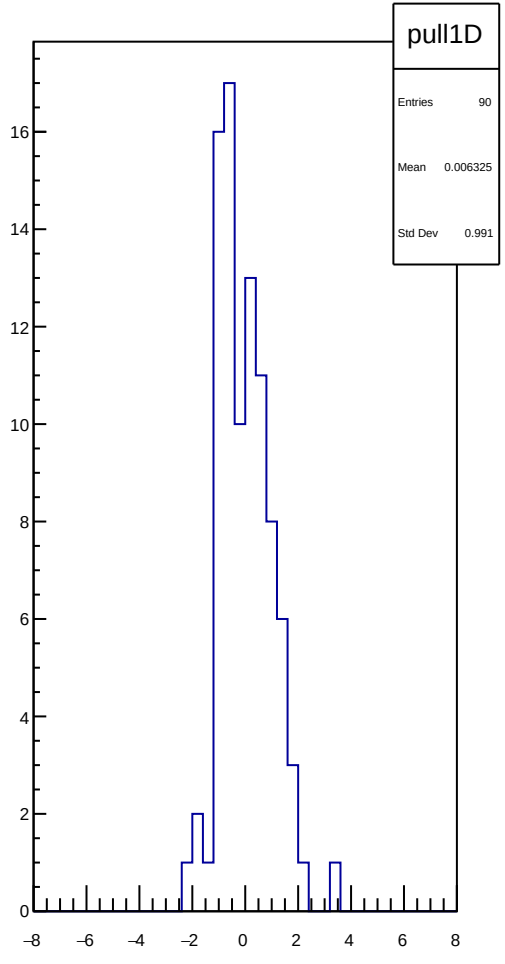

pull1D
Entries 90
Mean 0.006426
Std Dev 0.9992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

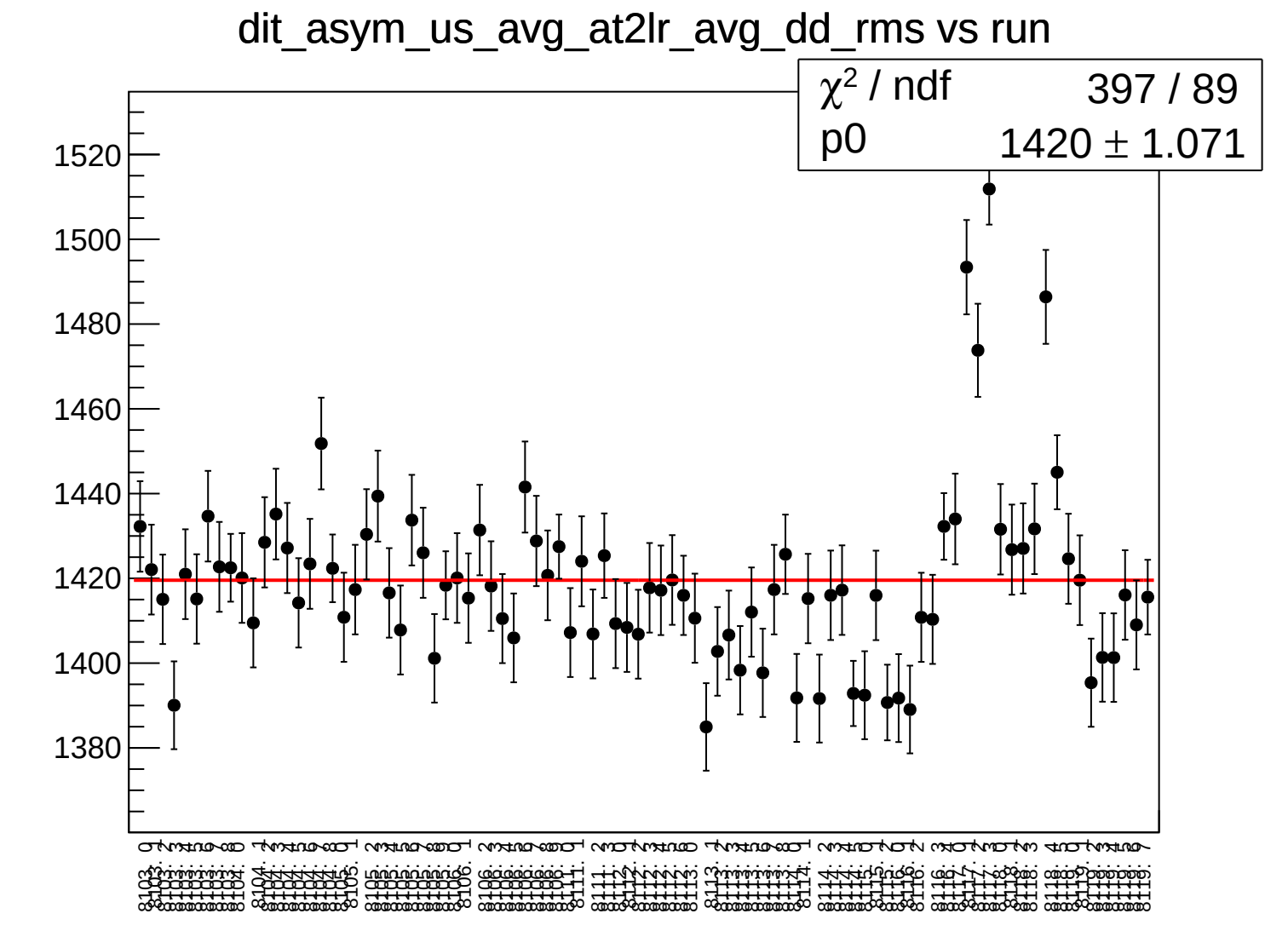

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 657.8 / 89
p0 1391 ± 1.049
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

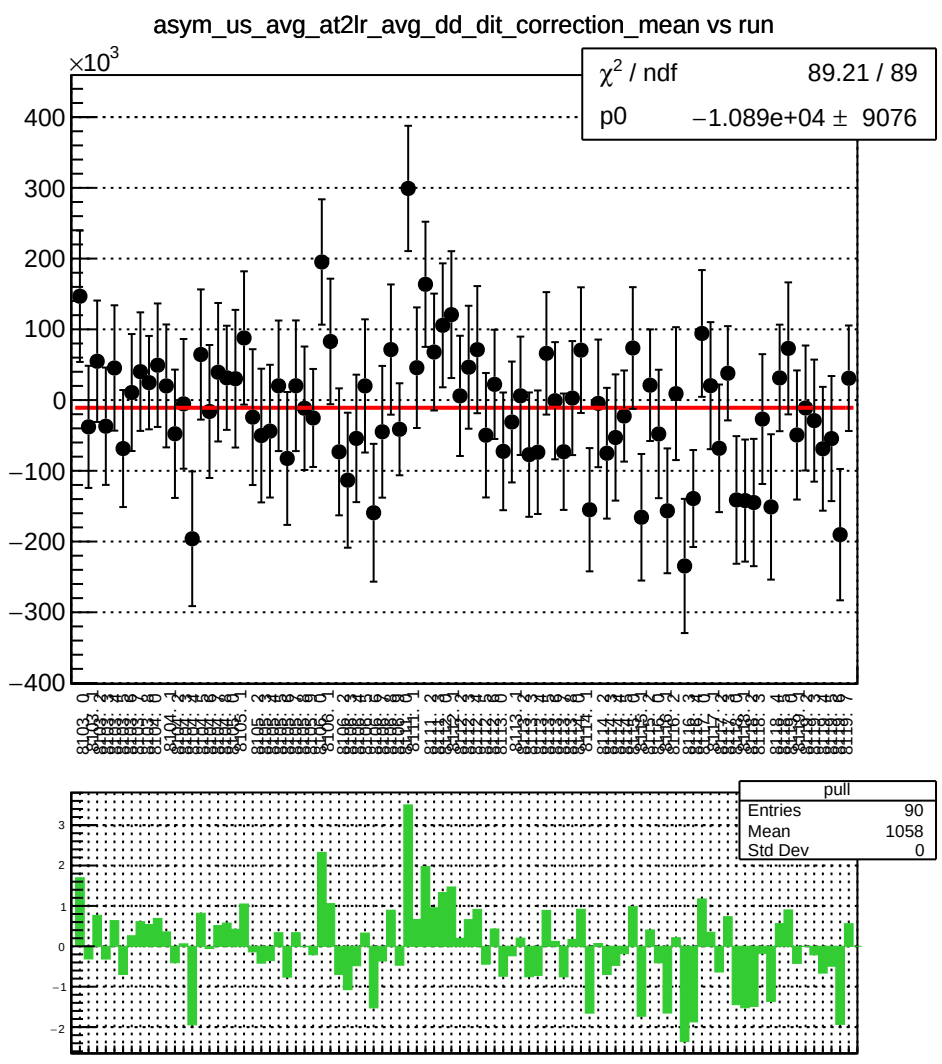

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.45 / 89
p0 −1.102e+04 ± 8970
pull
Entries 90
Mean 5167
Std Dev 0
pull1D
Entries 90
Mean −0.00142
Std Dev 0.9969

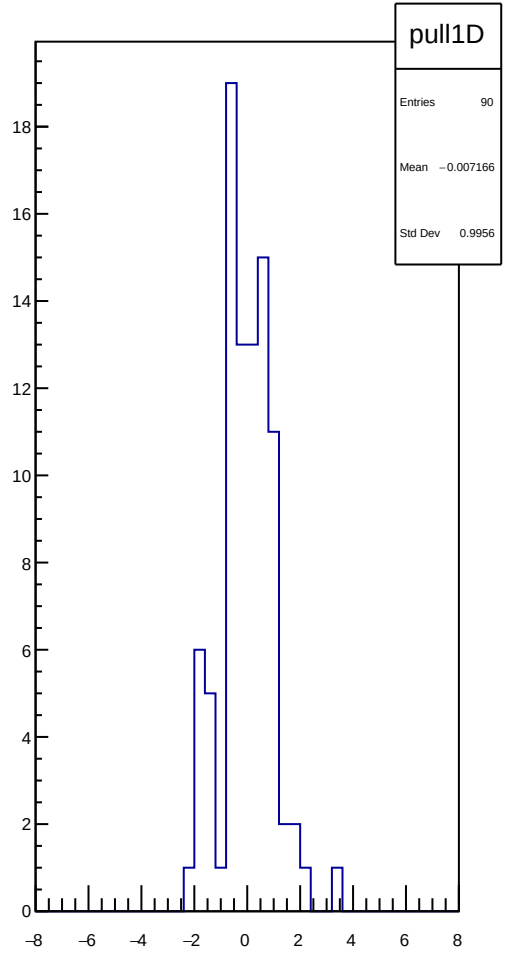

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3413 / 89
p0 8403 ± 6.343
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

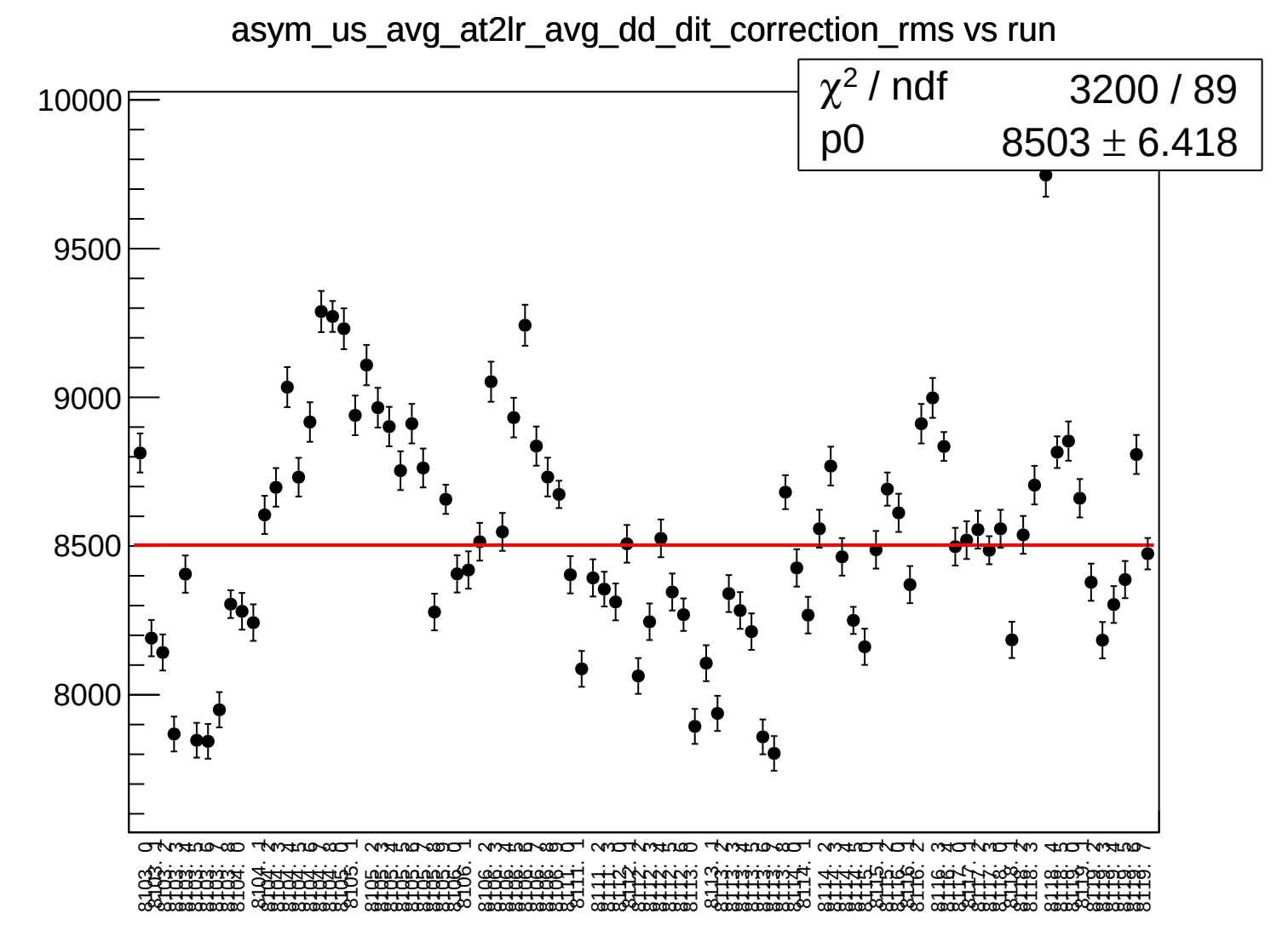

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.39 / 89
p0 −1397 ± 1514
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −477.8
Std Dev 0
3
2
1
0
−1
−2

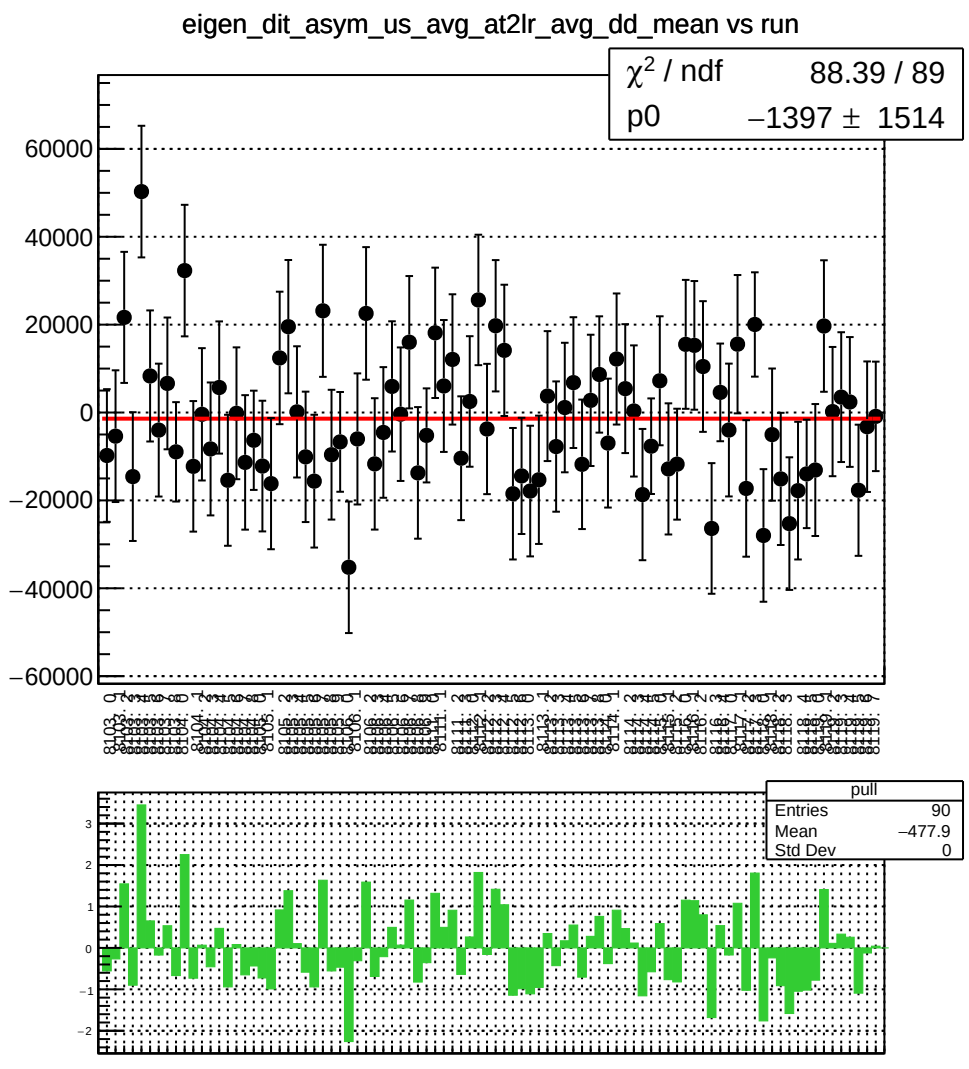

pull1D
Entries 90
Mean 0.006325
Std Dev 0.991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

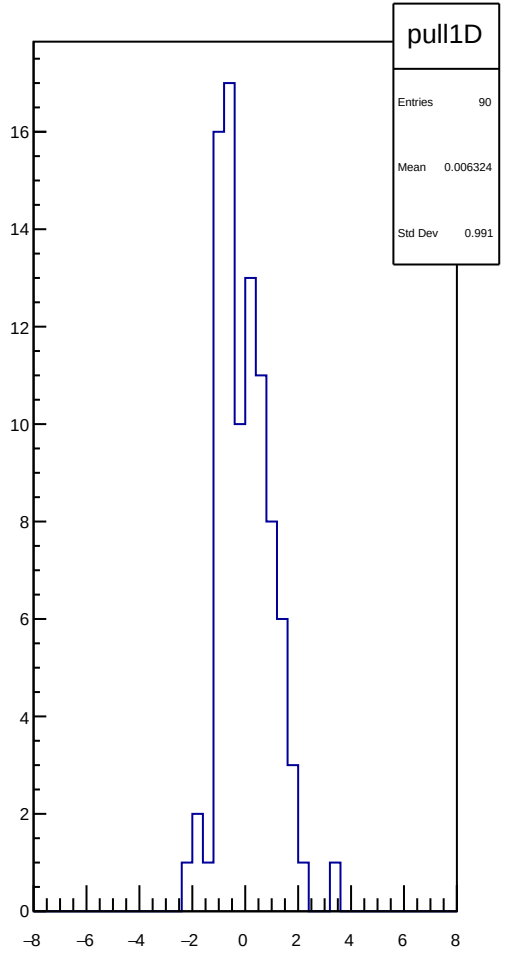

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 397 / 89
p0 1420 ± 1.071
1520
1500
1480
1460
1440
1420
1400
1380

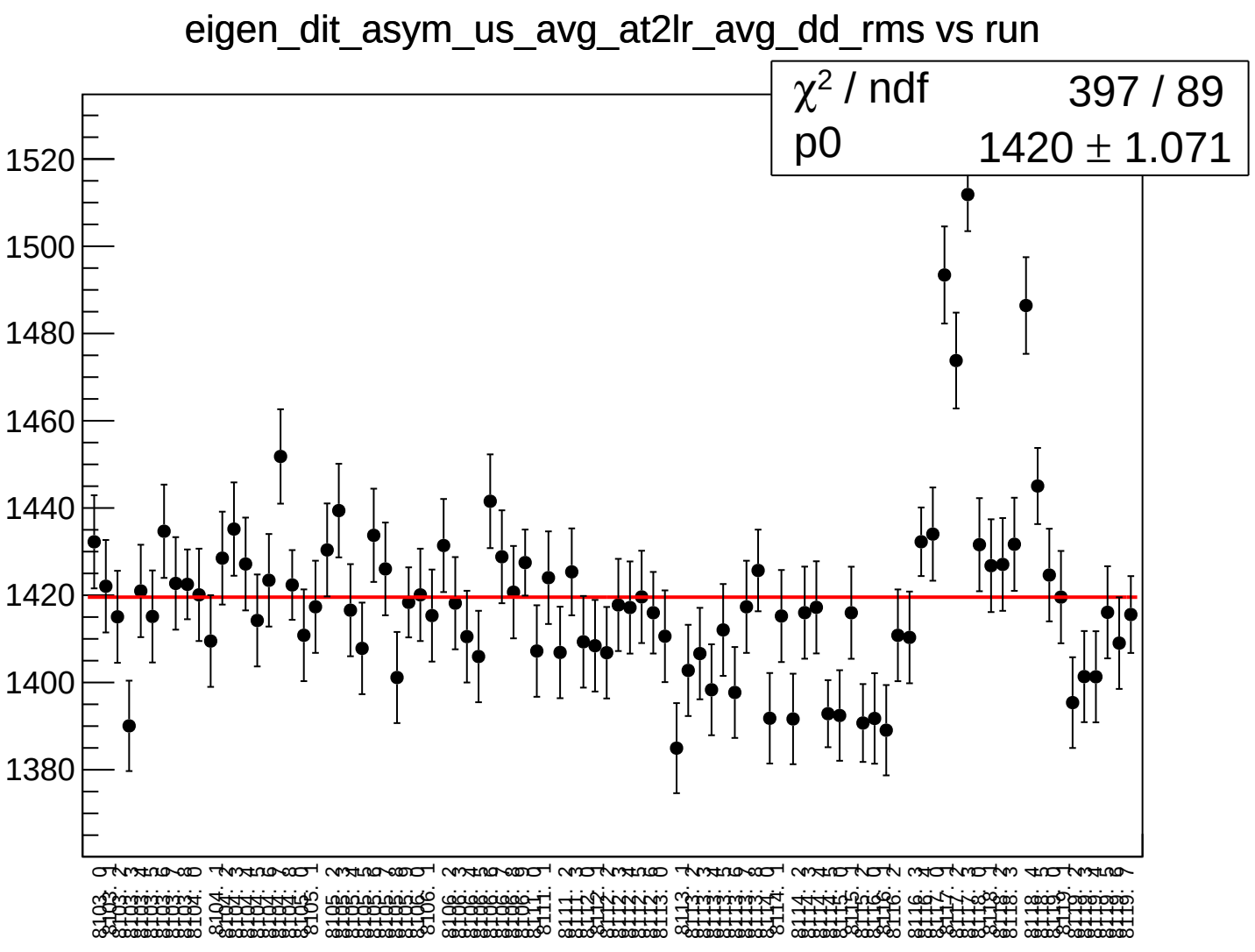

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.21 / 89
p0 −1.089e+04 ± 9076
pull
Entries 90
Mean 1058
Std Dev 0

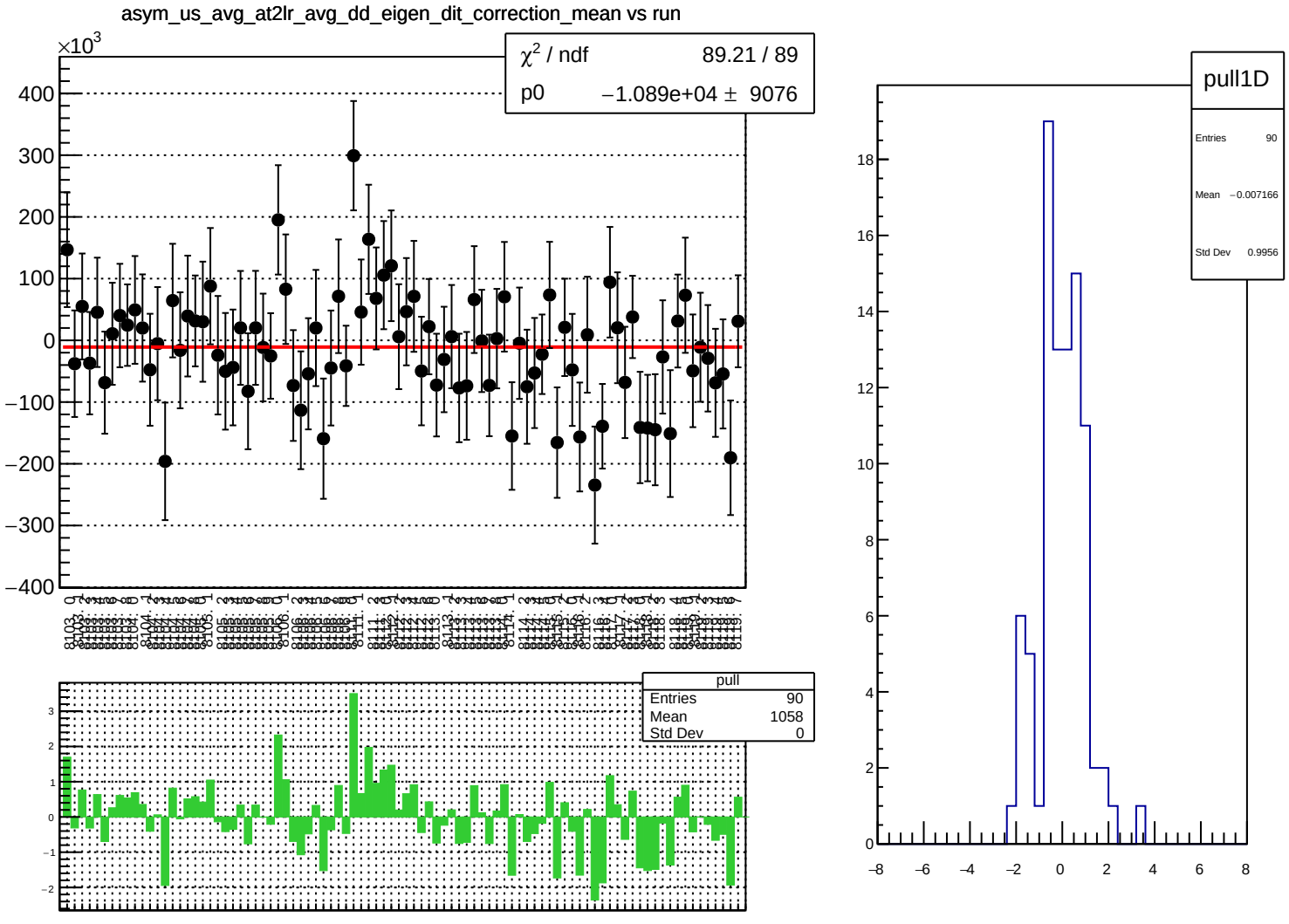

pull1D
Entries 90
Mean −0.007166
Std Dev 0.9956

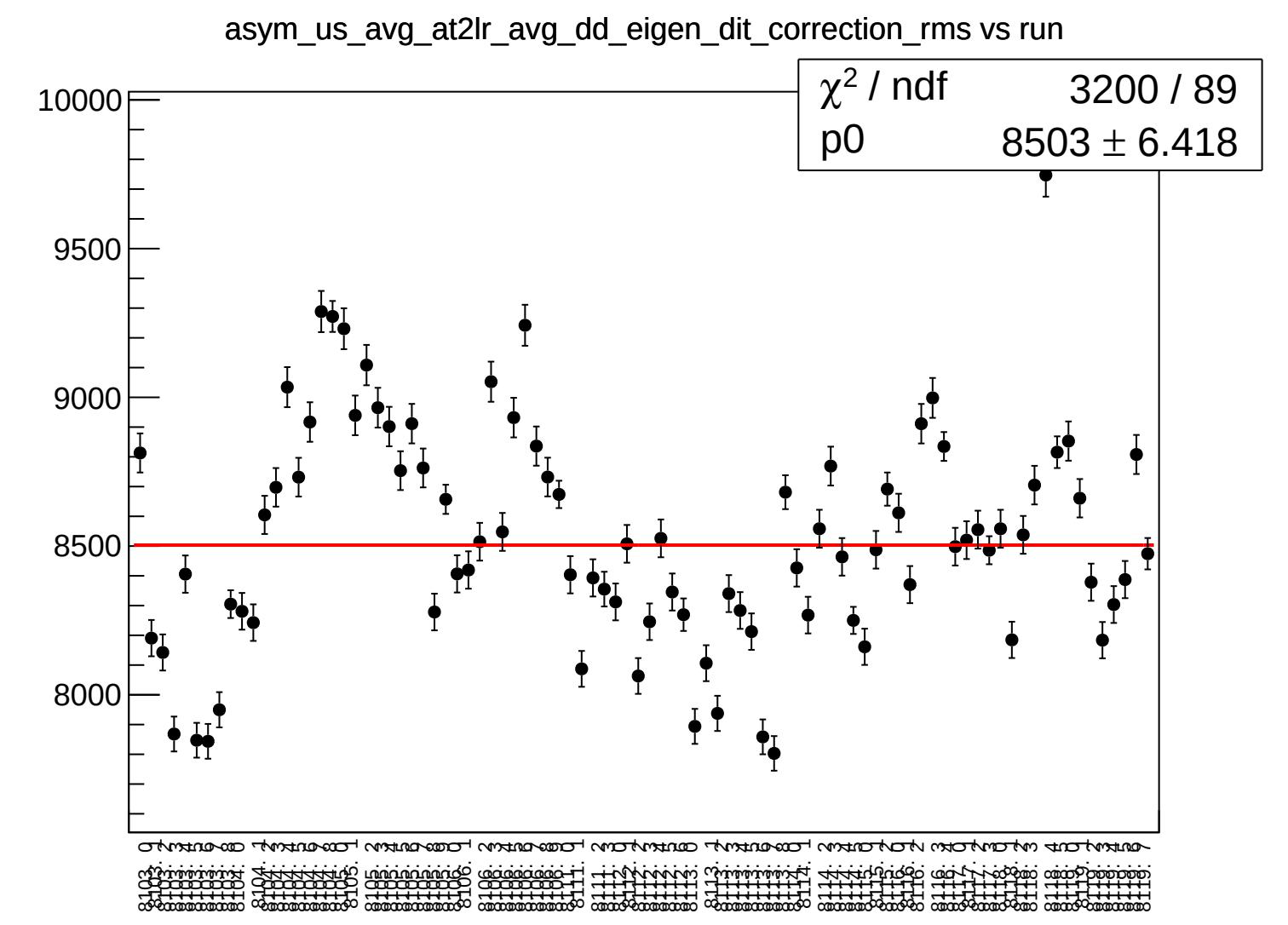

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3200 / 89
p0 8503 ± 6.418
10000
9500
9000
8500
8000

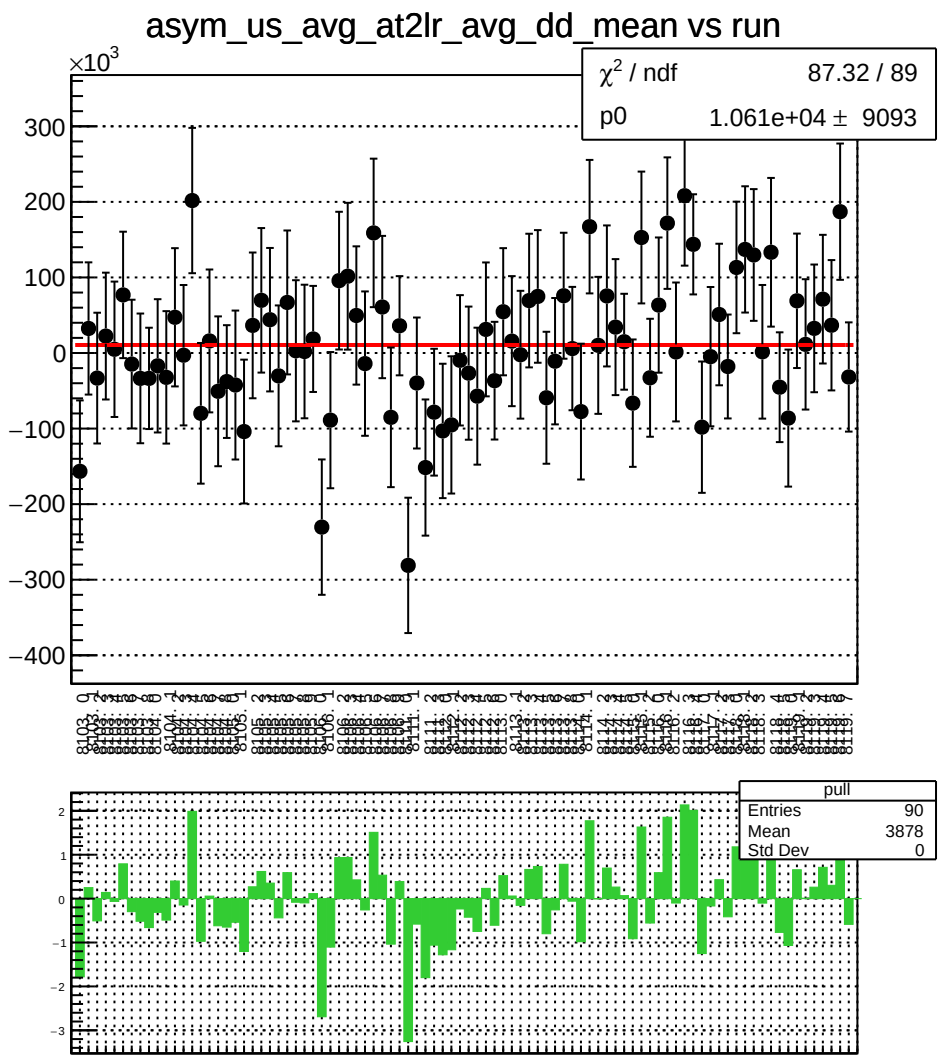

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.39 / 89
p0 −1397 ± 1514
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −477.9
Std Dev 0
3
2
1
0
−1
−2

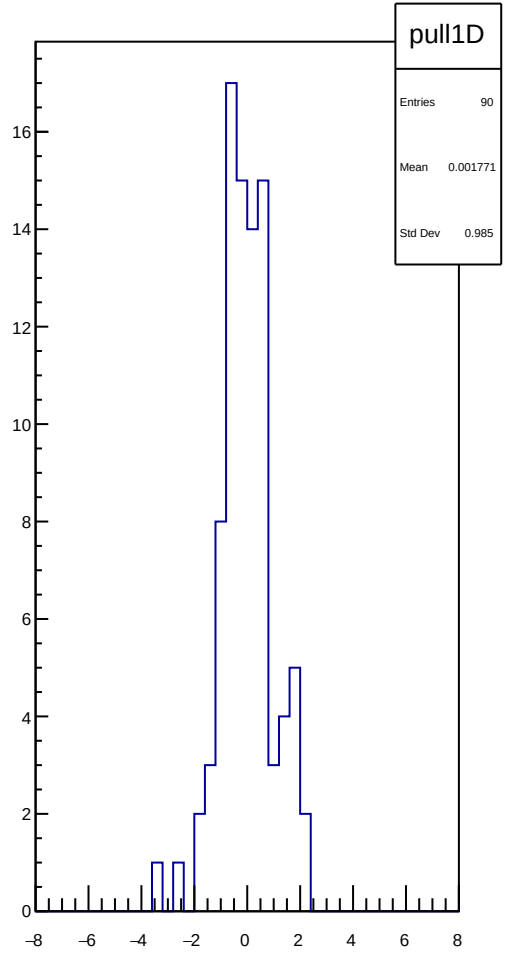

pull1D
Entries 90
Mean 0.006324
Std Dev 0.991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

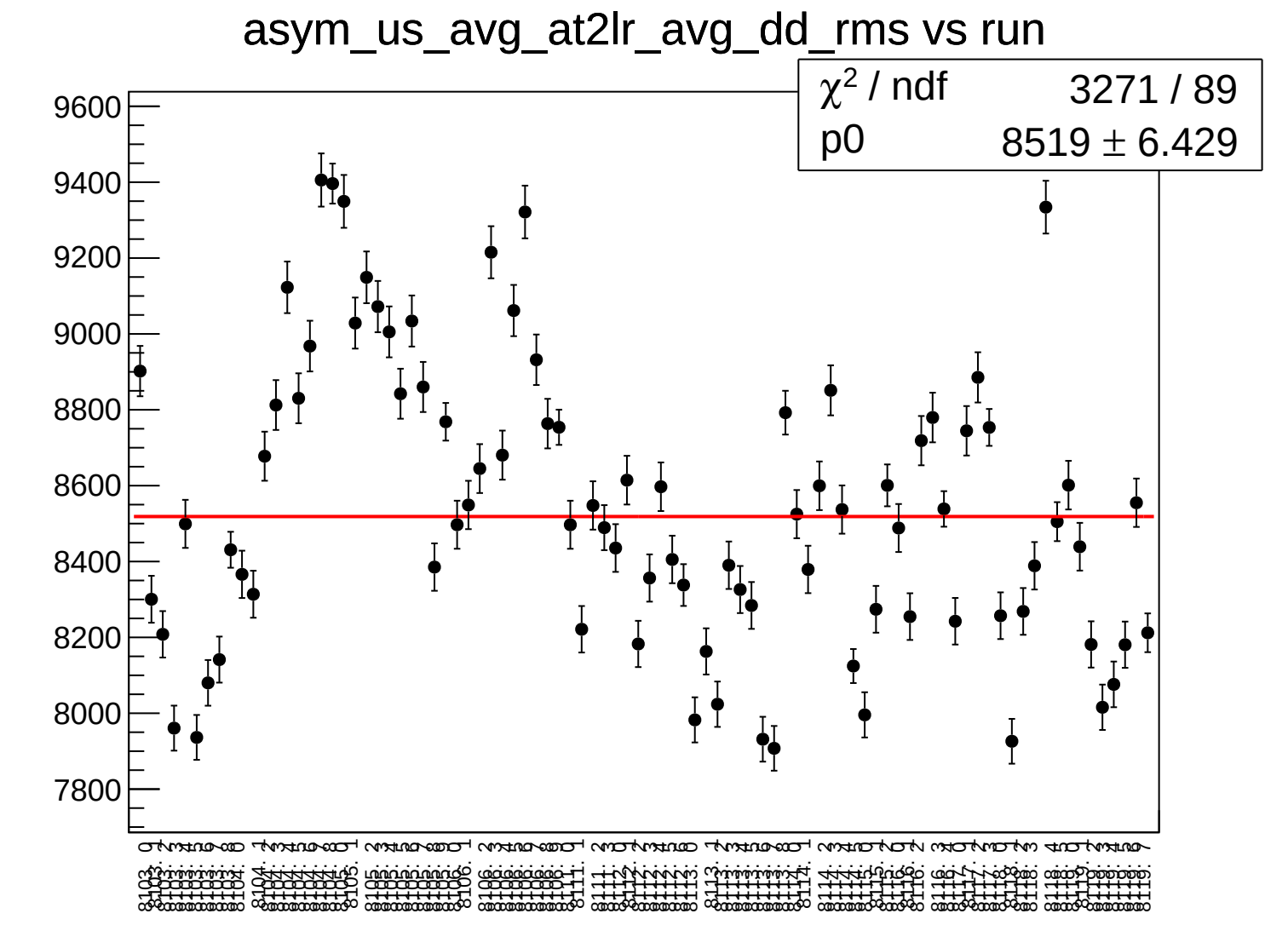

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 397 / 89
p0 1420 ± 1.071
1520
1500
1480
1460
1440
1420
1400
1380

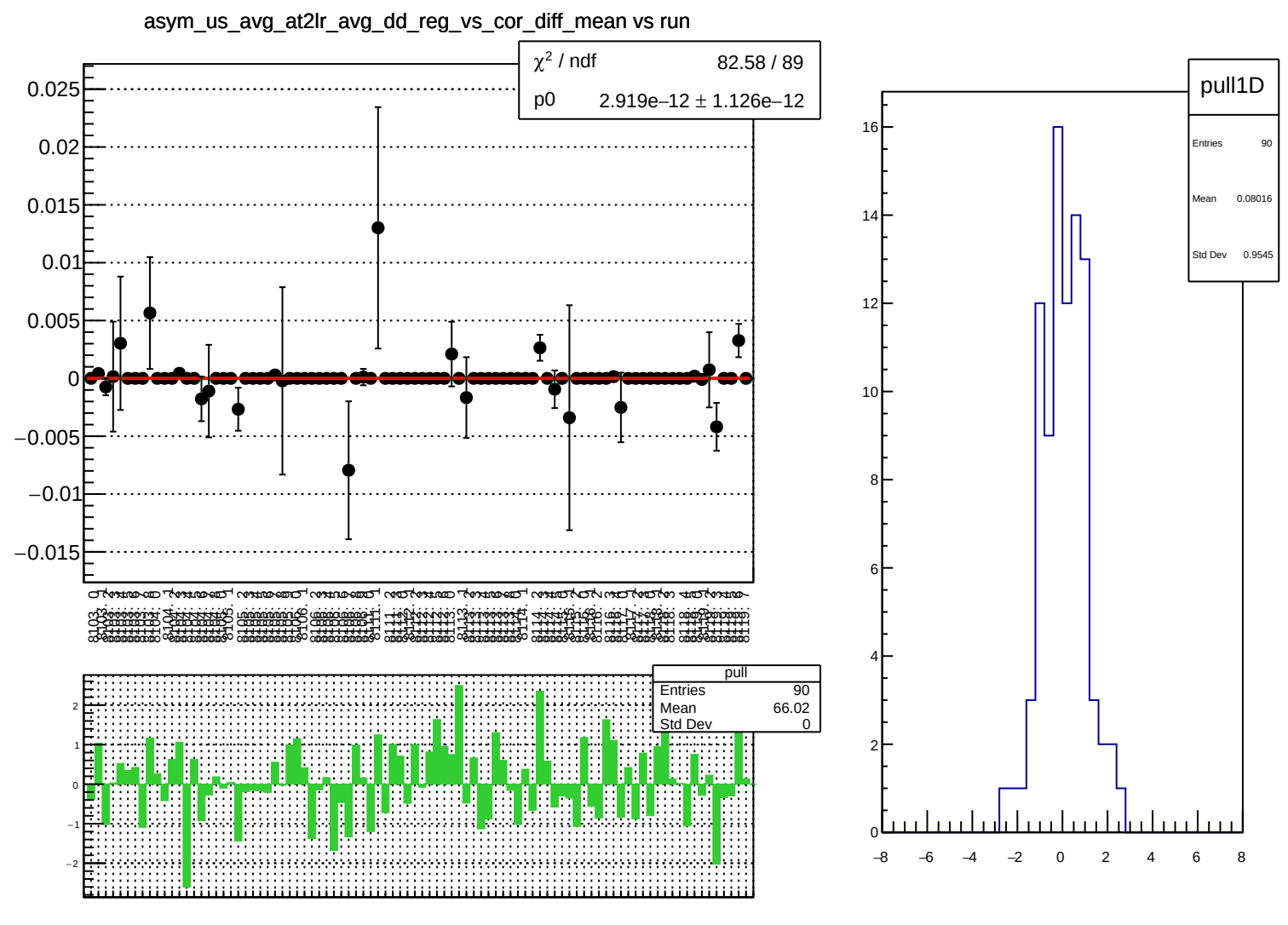

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.21 / 89
p0 −1.089e+04 ± 9076
pull
Entries 90
Mean 1058
Std Dev 0
pull1D
Entries 90
Mean −0.007166
Std Dev 0.9956

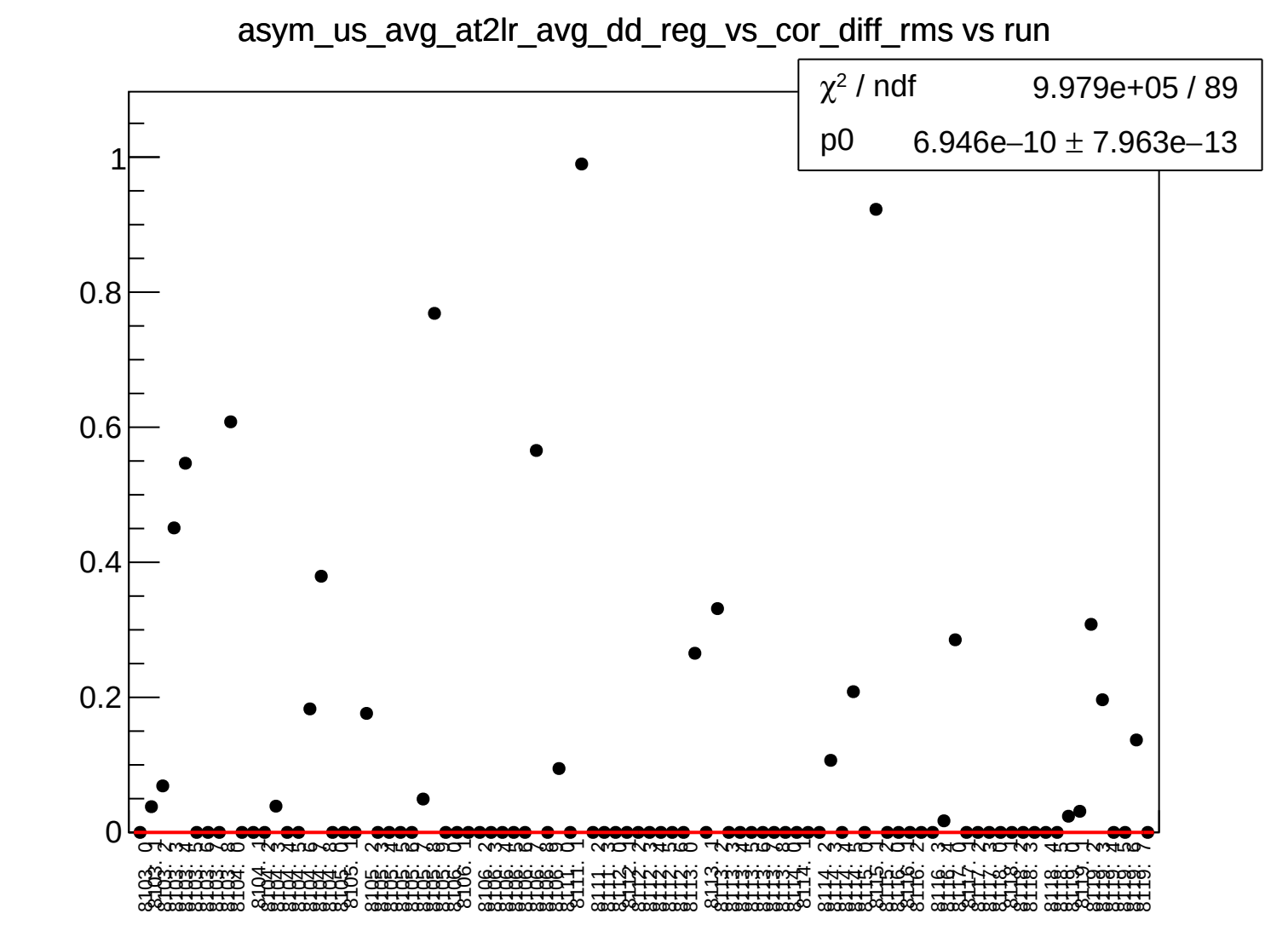

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3200 / 89
p0 8503 ± 6.418
10000
9500
9000
8500
8000

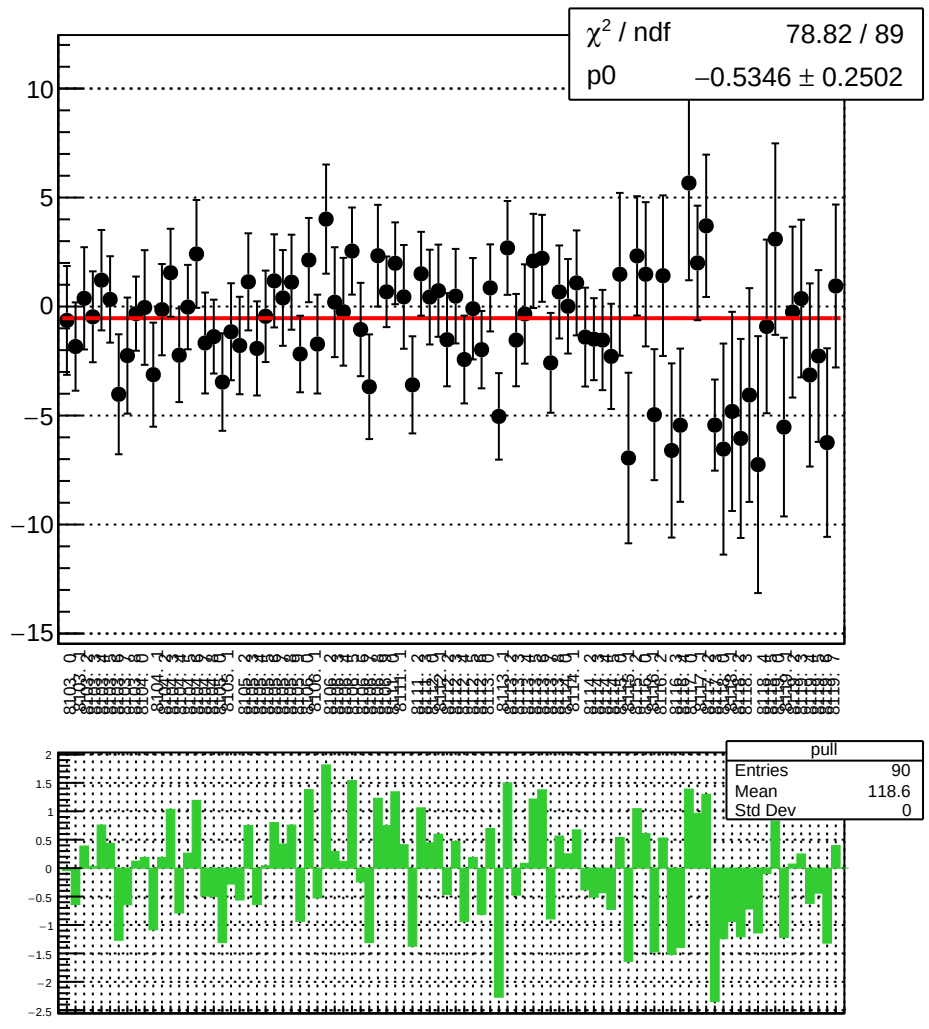

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 87.32 / 89
p0 1.061e+04 ± 9093
pull
Entries 90
Mean 3878
Std Dev 0

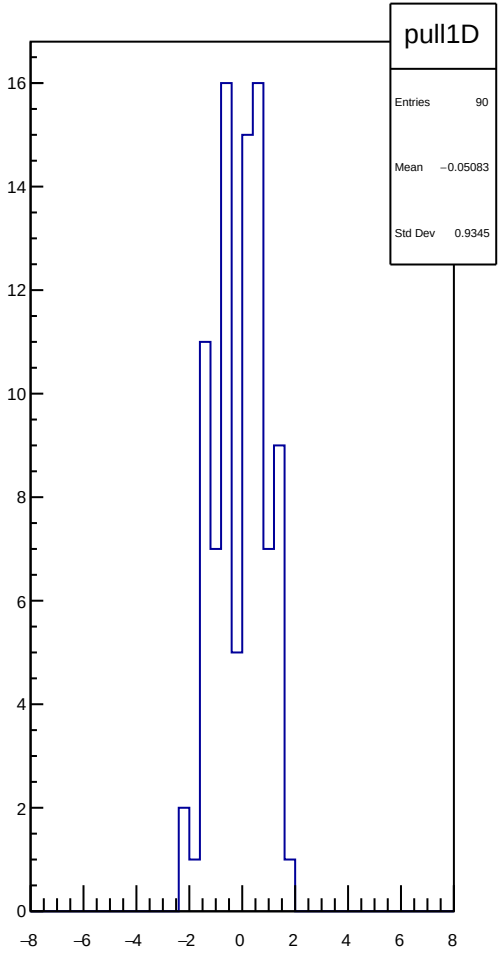

pull1D
Entries 90
Mean 0.001771
Std Dev 0.985

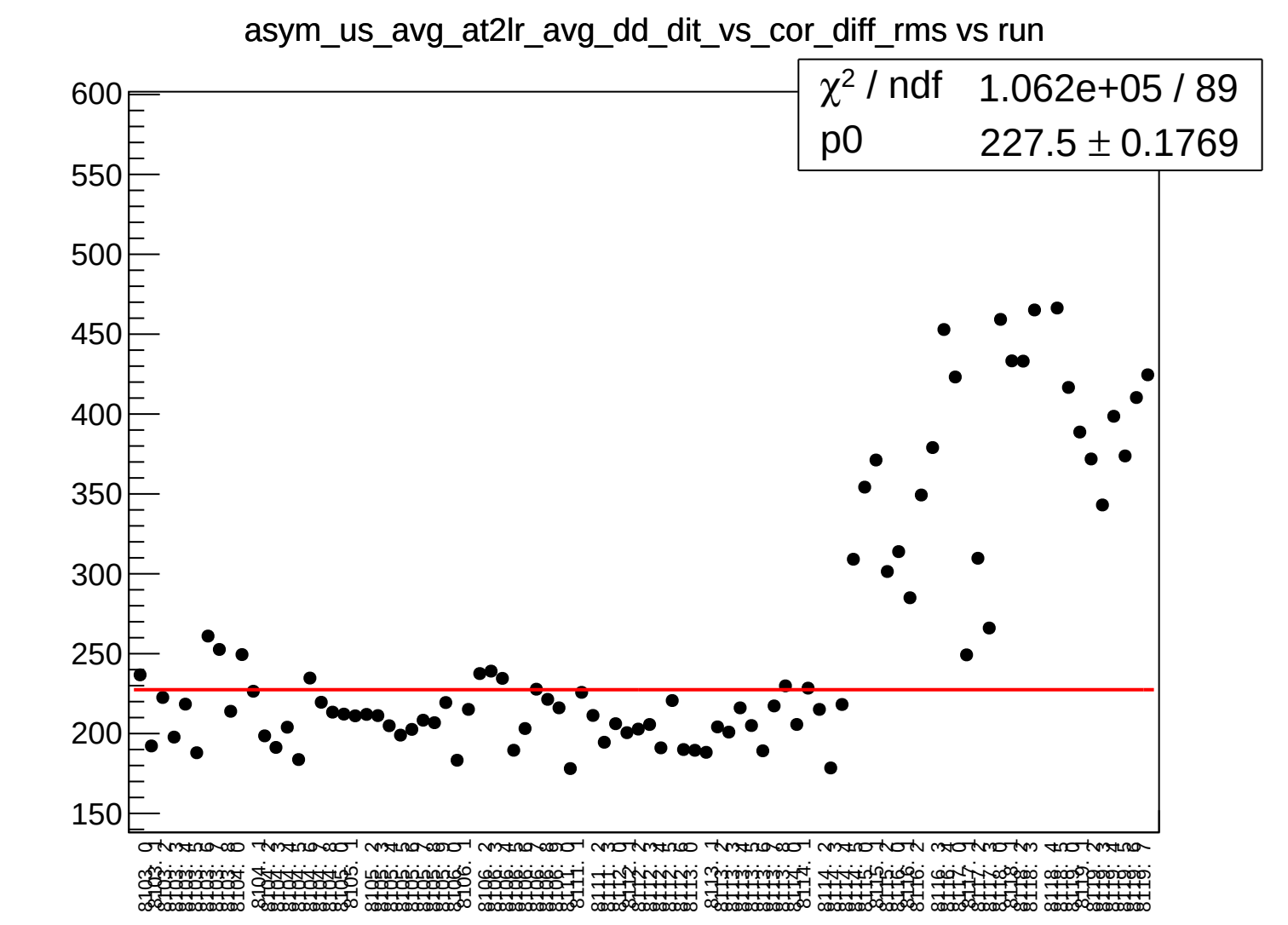

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3271 / 89
p0 8519 ± 6.429
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

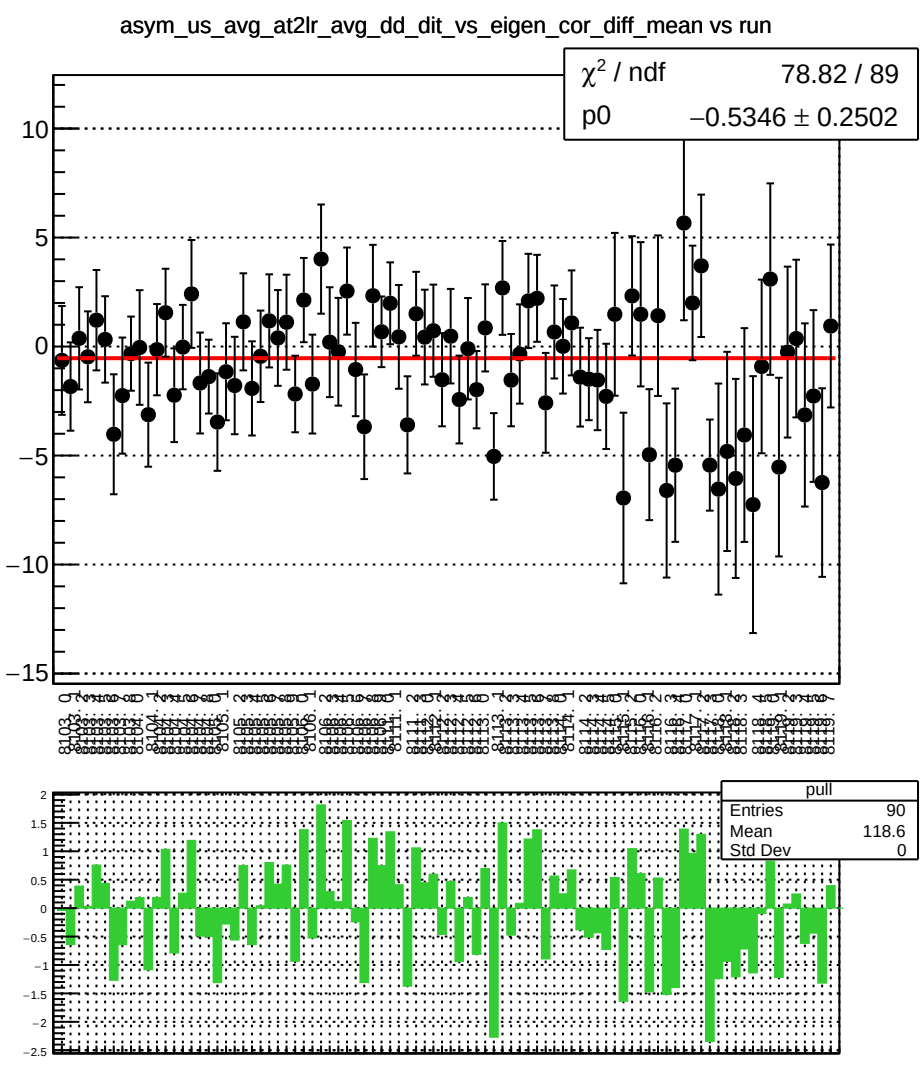

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.58 / 89
p0 2.919e−12 ± 1.126e−12
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 90
Mean 66.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.08016
Std Dev 0.9545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

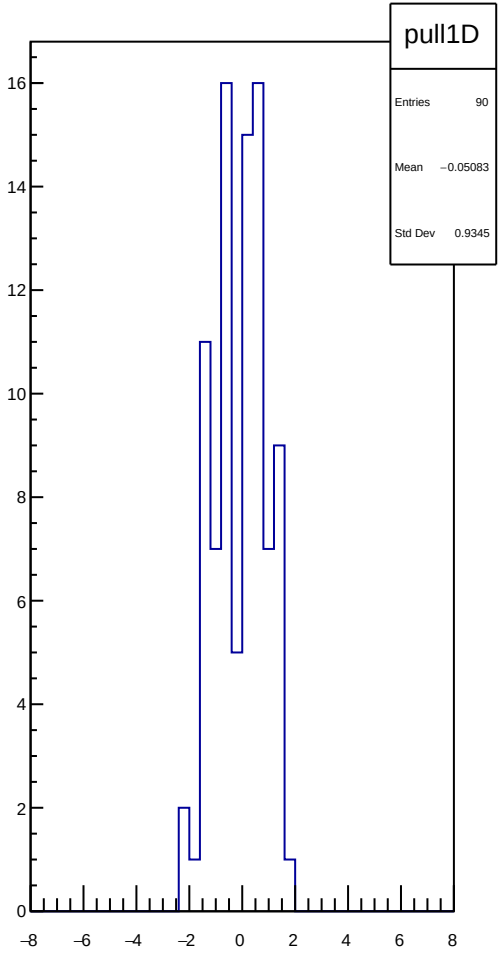

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.979e+05 / 89
p0 6.946e−10 ± 7.963e−13
1
0.8
0.6
0.4
0.2
0

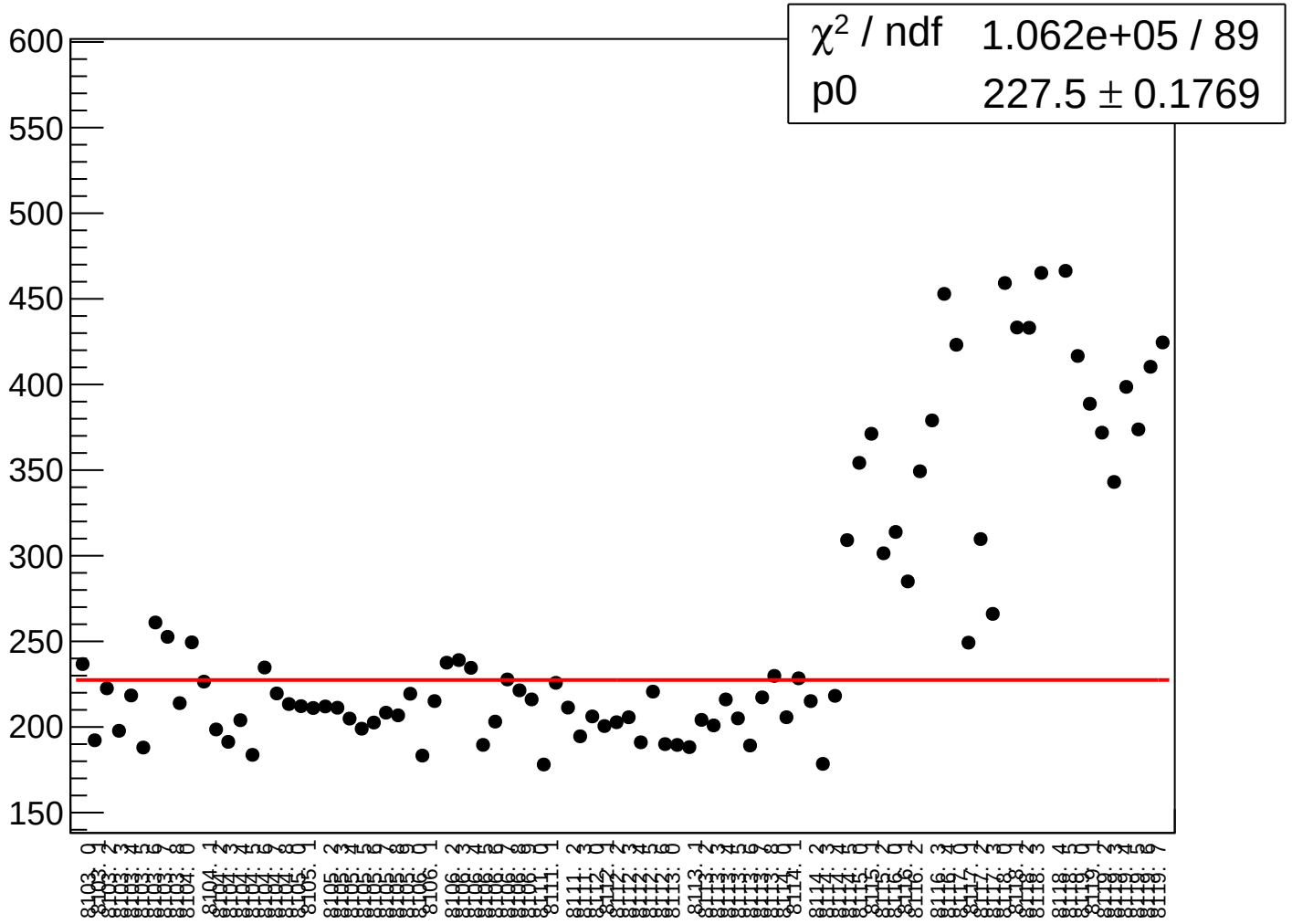

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.82 / 89
p0 −0.5346 ± 0.2502
pull
Entries 90
Mean 118.6
Std Dev 0

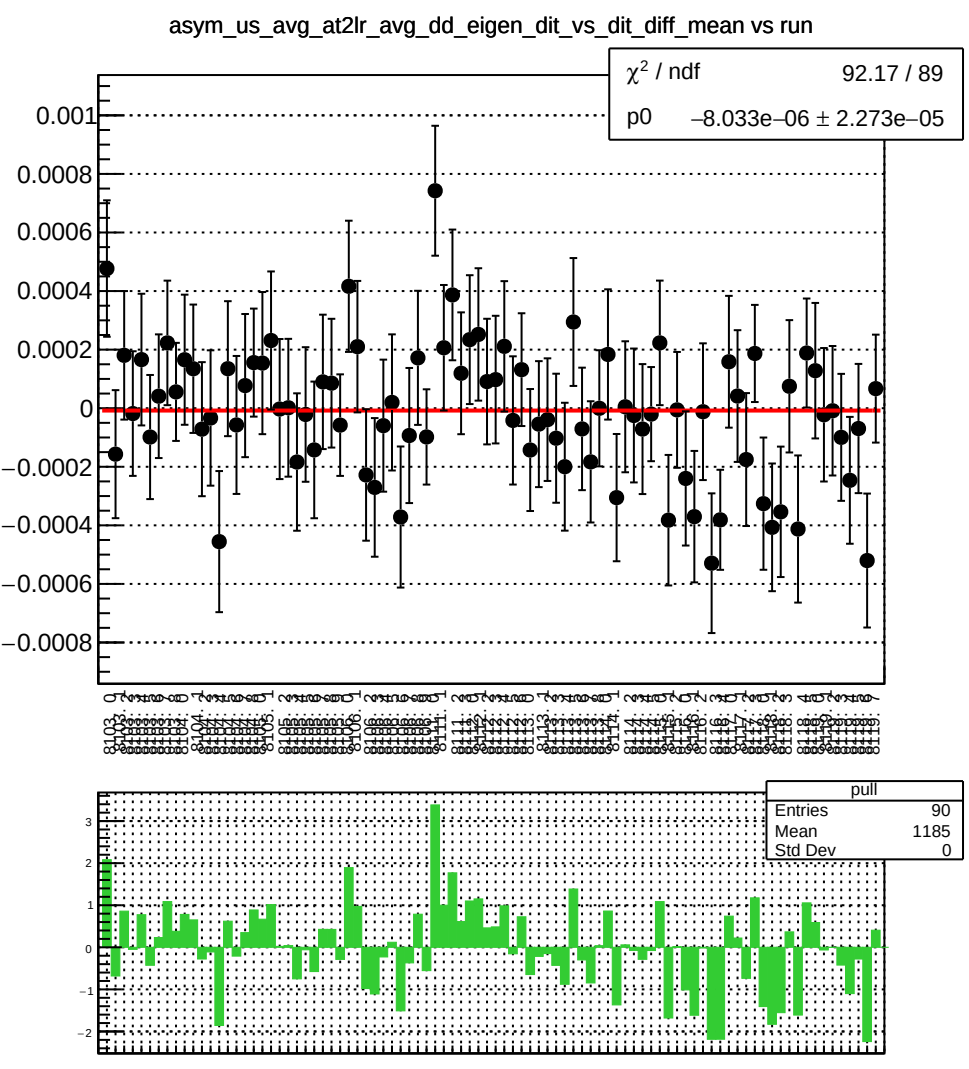

pull1D
Entries 90
Mean −0.05083
Std Dev 0.9345

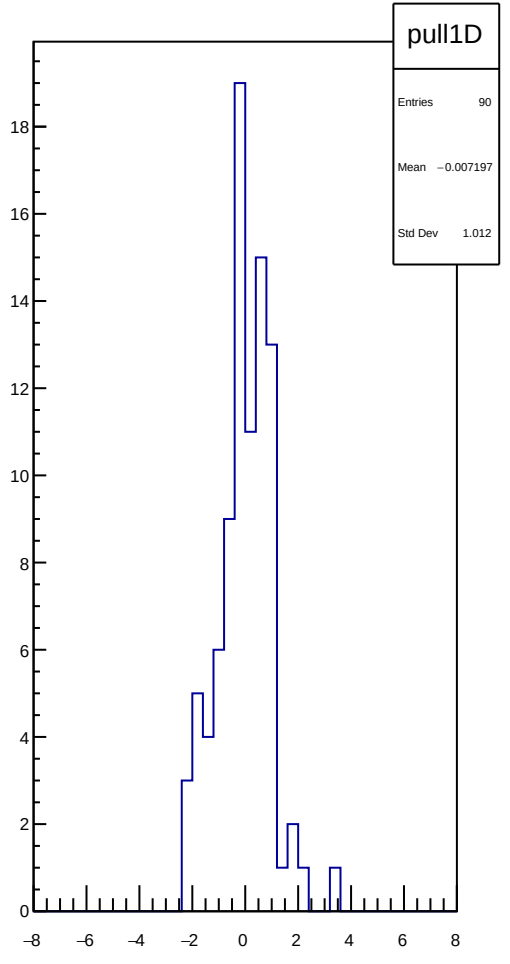

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.062e+05 / 89
p0 227.5 ± 0.1769
600
550
500
450
400
350
300
250
200
150

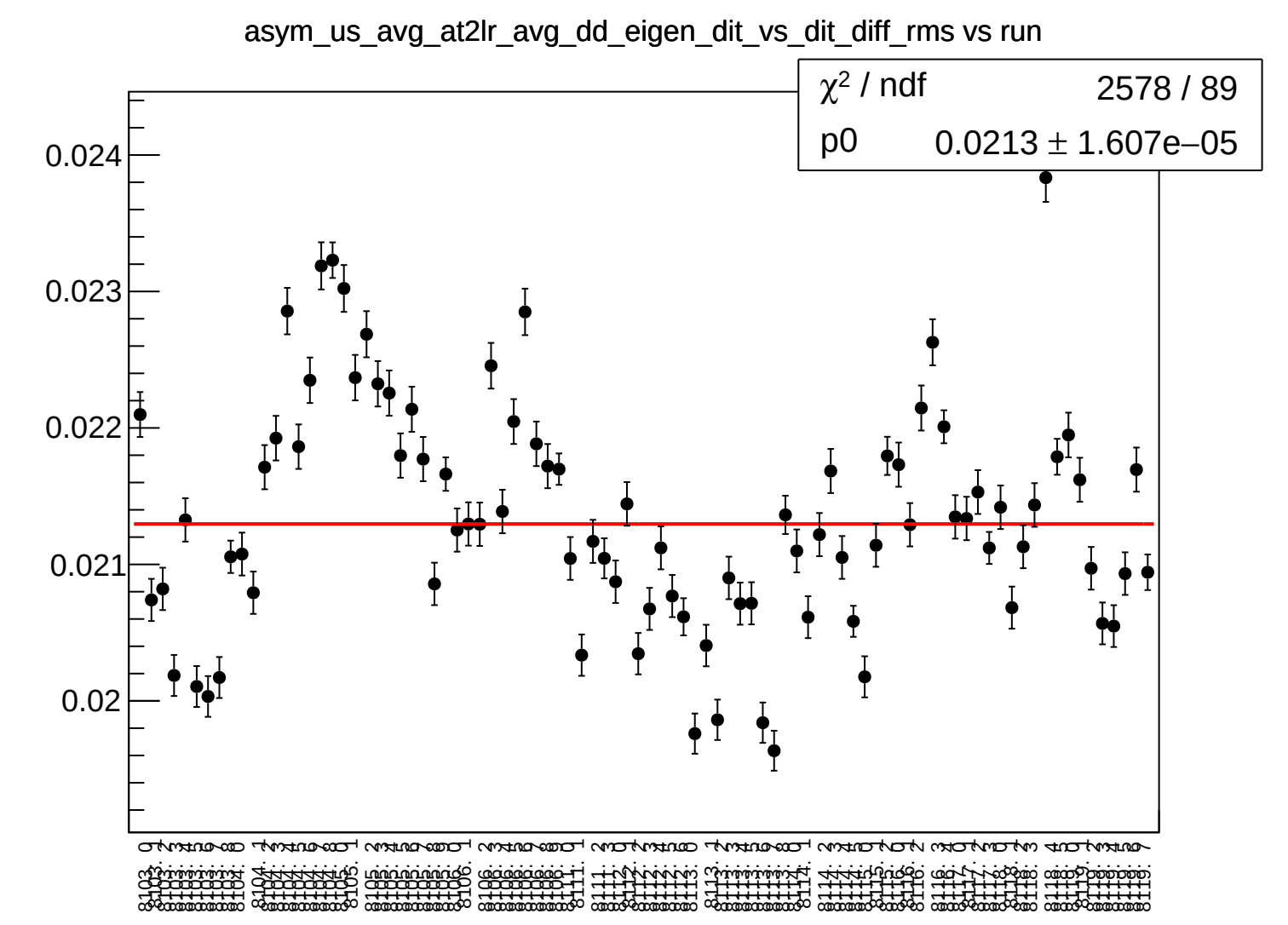

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.82 / 89
p0 −0.5346 ± 0.2502
pull
Entries 90
Mean 118.6
Std Dev 0

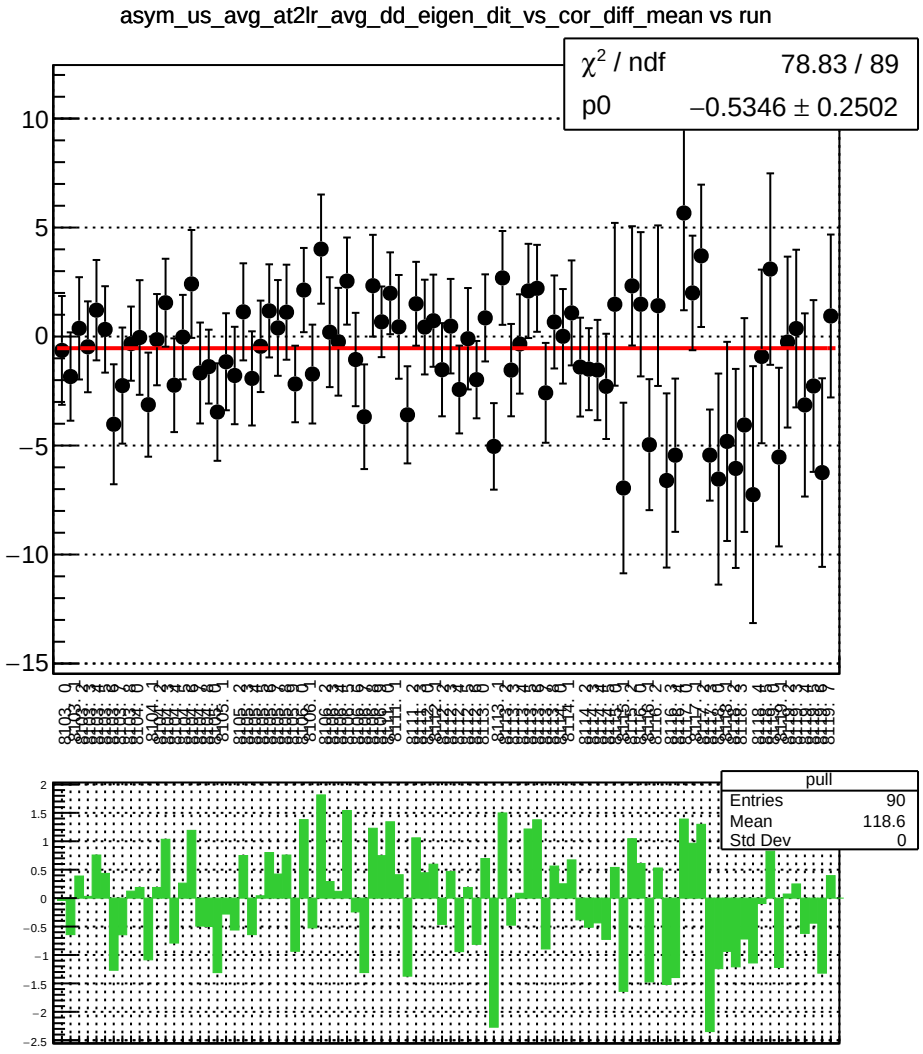

pull1D
Entries 90
Mean −0.05083
Std Dev 0.9345

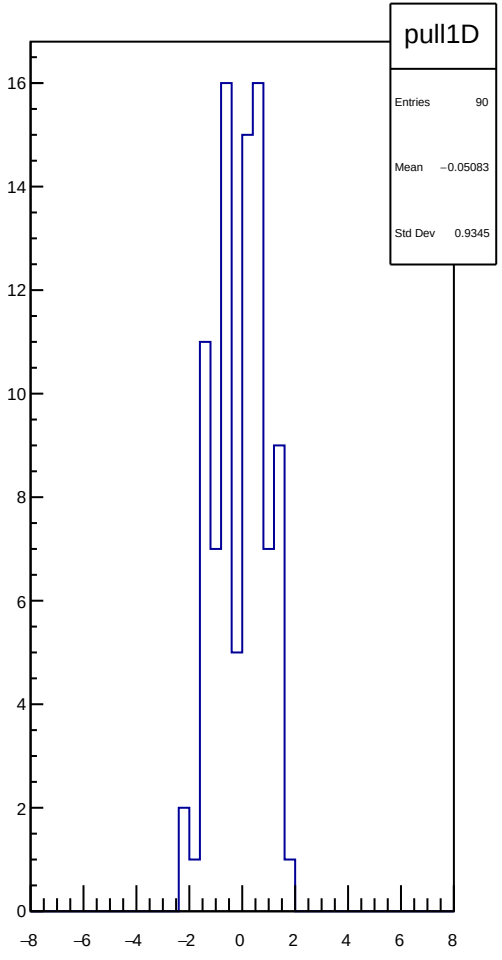

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.062e+05 / 89
p0 227.5 ± 0.1769
600
550
500
450
400
350
300
250
200
150

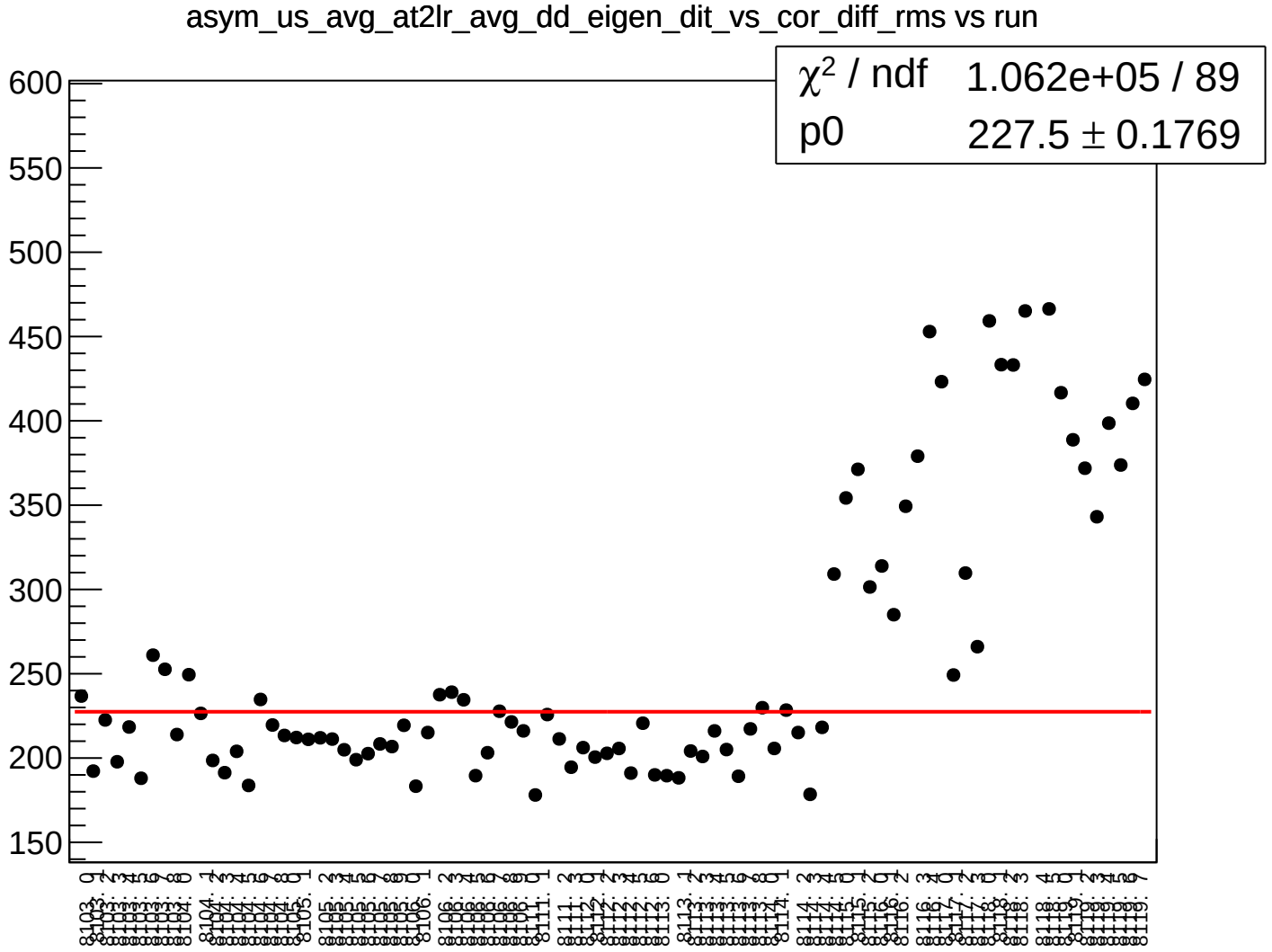

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.17 / 89
p0 −8.033e−06 ± 2.273e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 90
Mean 1185
Std Dev 0
3
2
1
0
−1
−2

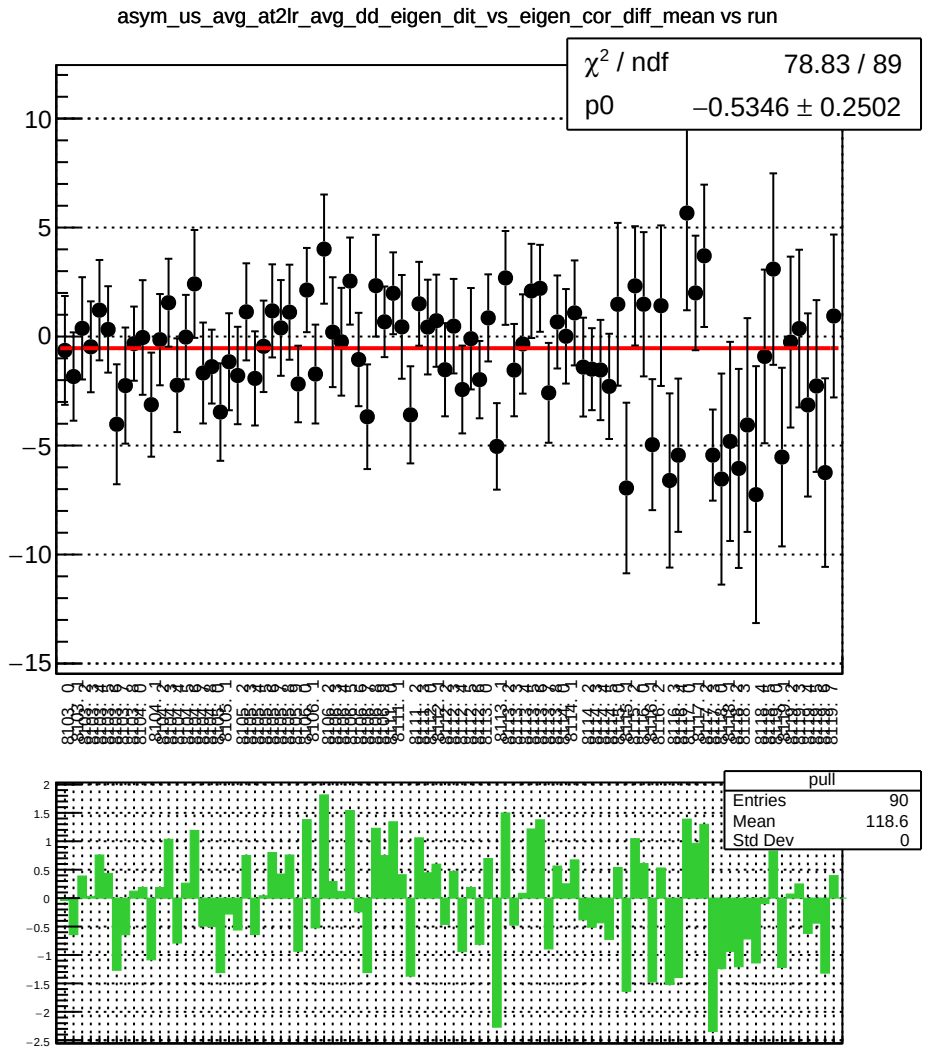

pull1D
Entries 90
Mean −0.007197
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

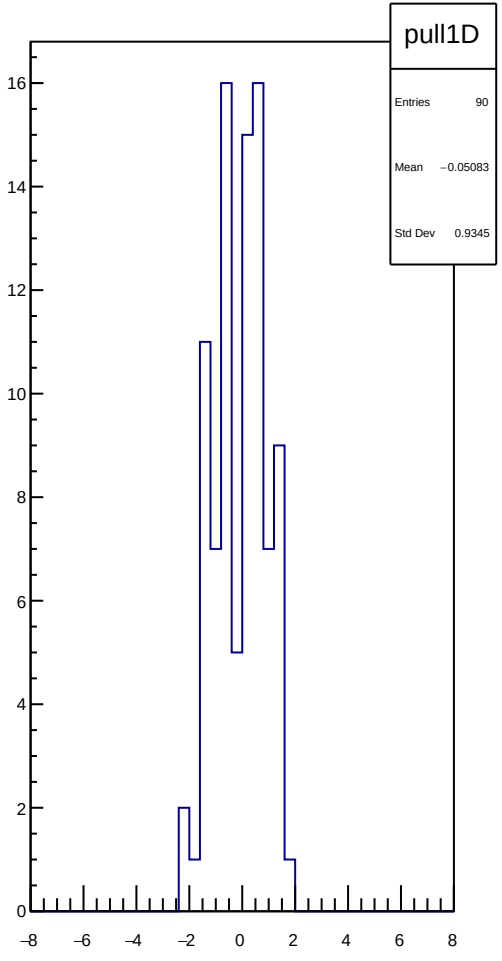

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2578 / 89
p0 0.0213 ± 1.607e−05
0.024
0.023
0.022
0.021
0.02

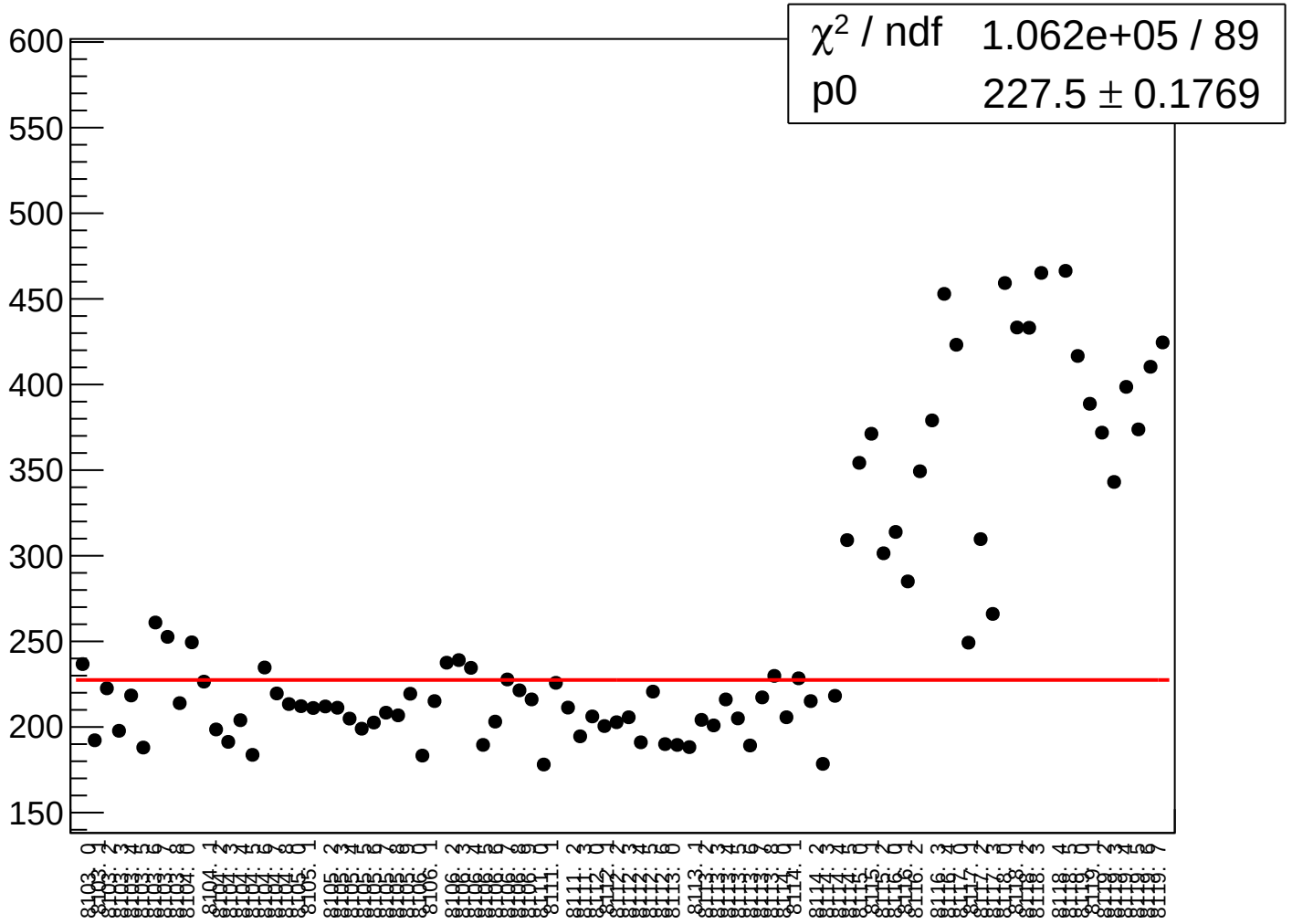

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.83 / 89
p0 −0.5346 ± 0.2502
pull
Entries 90
Mean 118.6
Std Dev 0

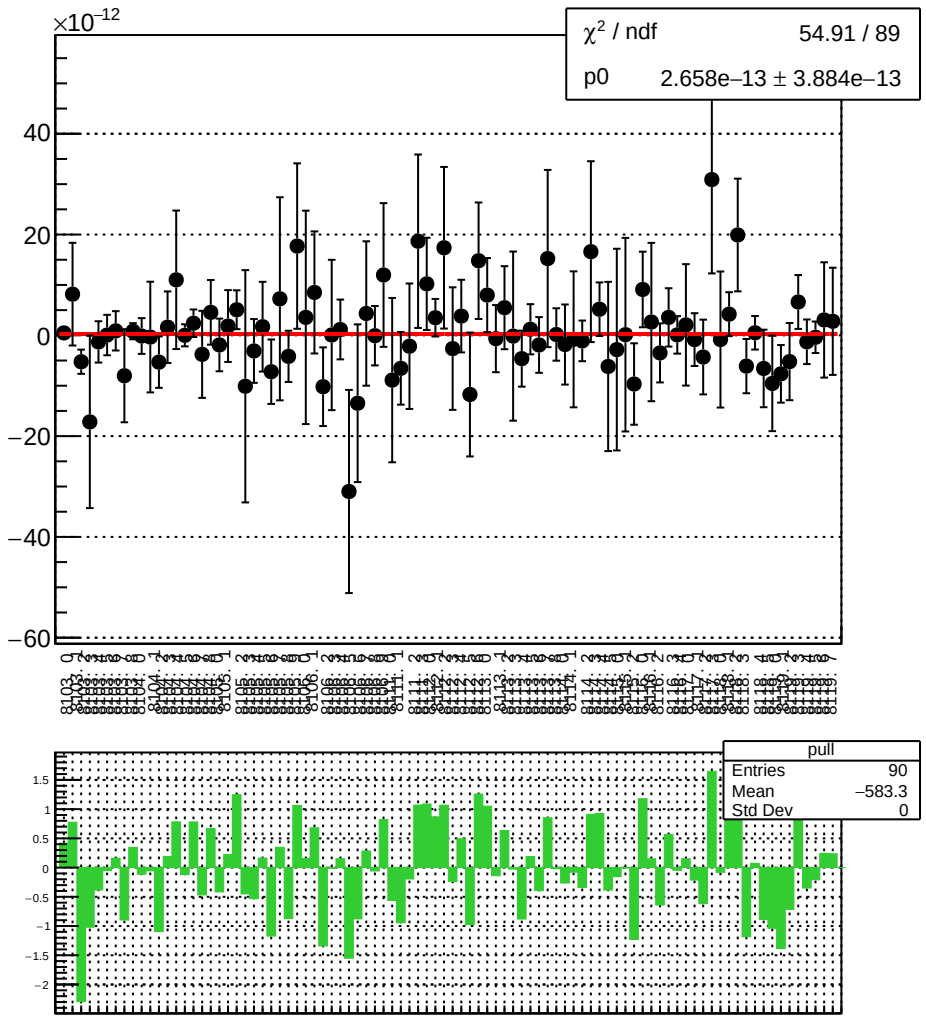

pull1D
Entries 90
Mean −0.05083
Std Dev 0.9345

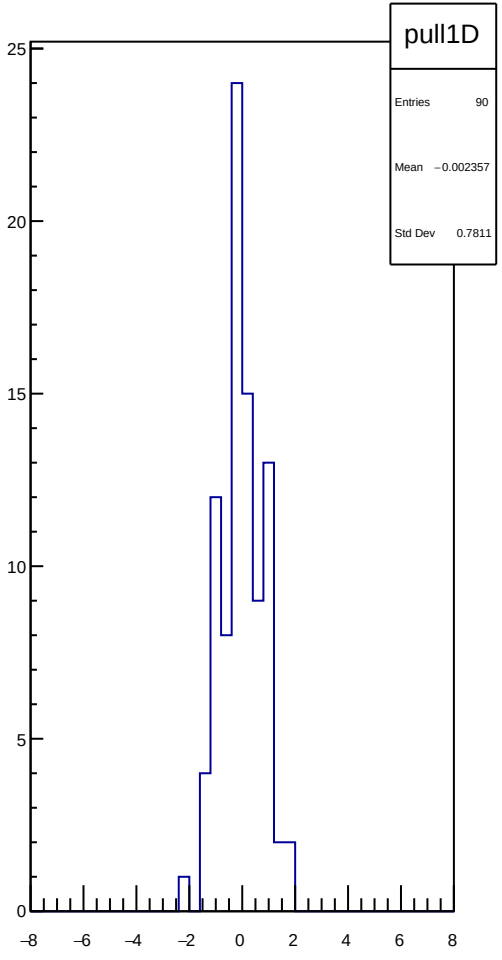

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.062e+05 / 89
p0 227.5 ± 0.1769
600
550
500
450
400
350
300
250
200
150

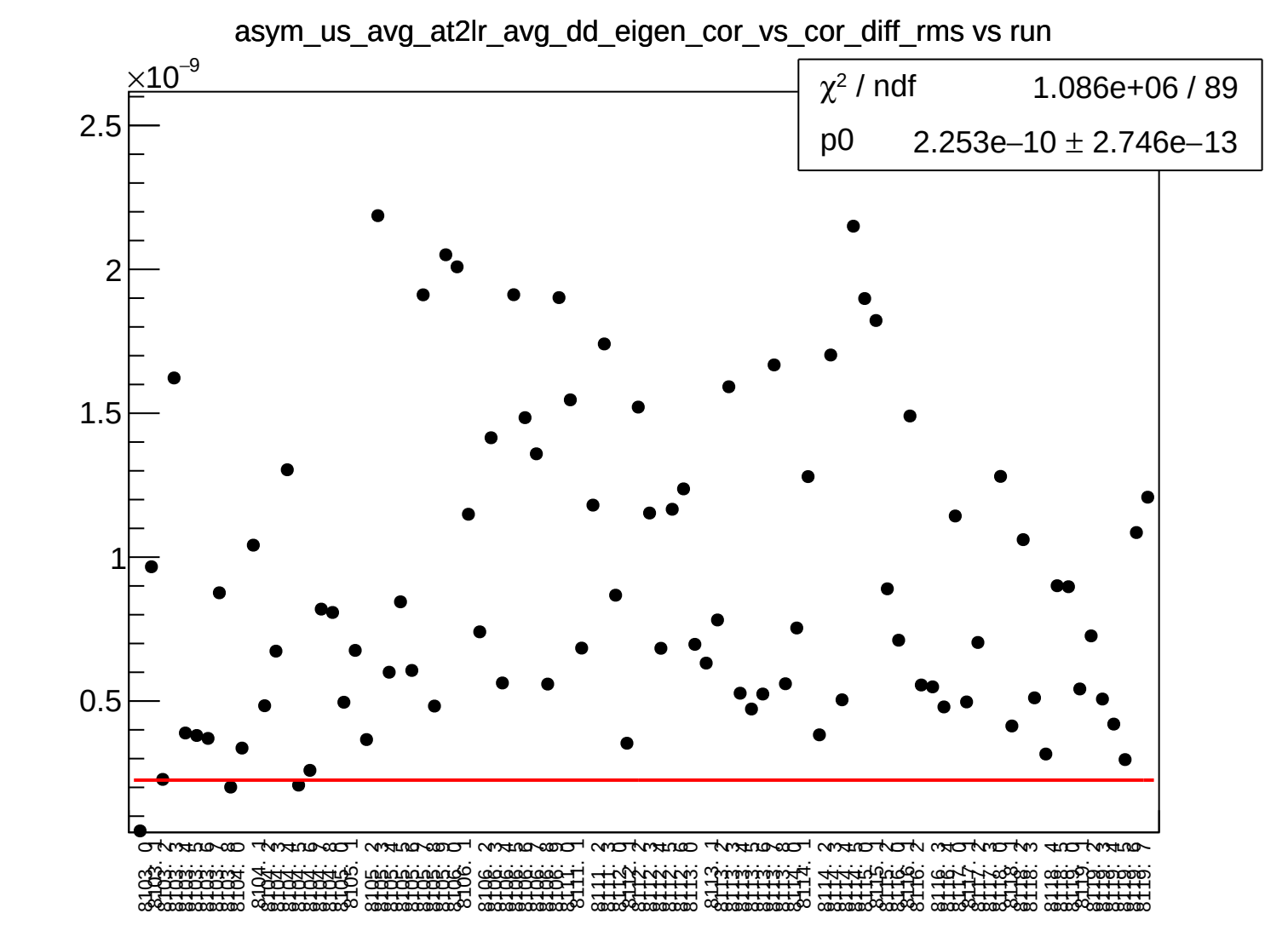

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.83 / 89
p0 −0.5346 ± 0.2502
pull
Entries 90
Mean 118.6
Std Dev 0

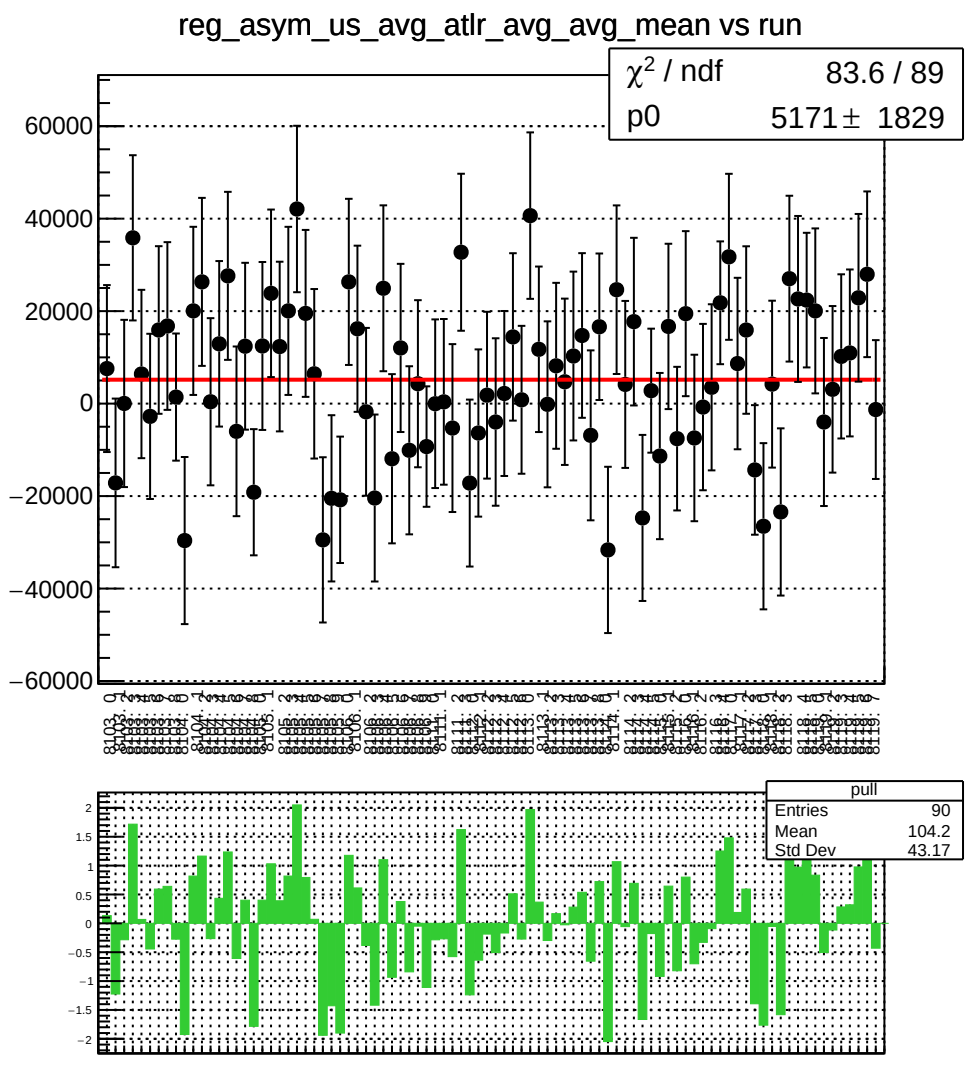

pull1D
Entries 90
Mean −0.05083
Std Dev 0.9345

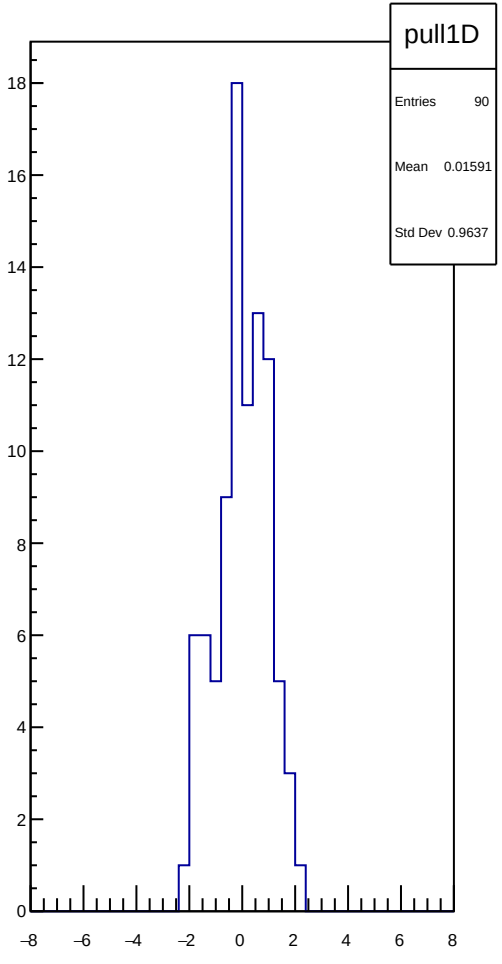

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.062e+05 / 89
p0 227.5 ± 0.1769
600
550
500
450
400
350
300
250
200
150

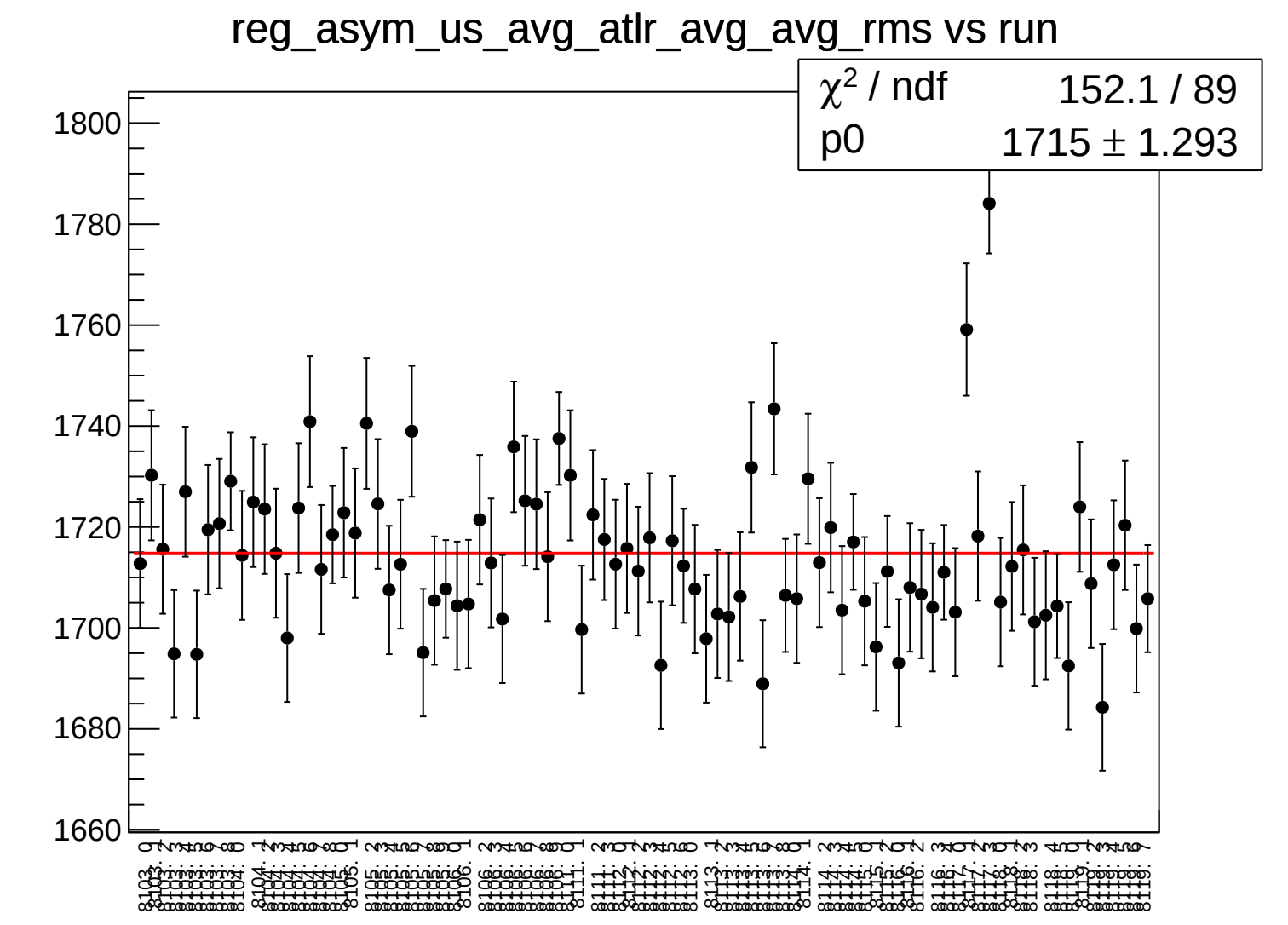

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.91 / 89
p0 2.658e−13 ± 3.884e−13
pull
Entries 90
Mean −583.3
Std Dev 0

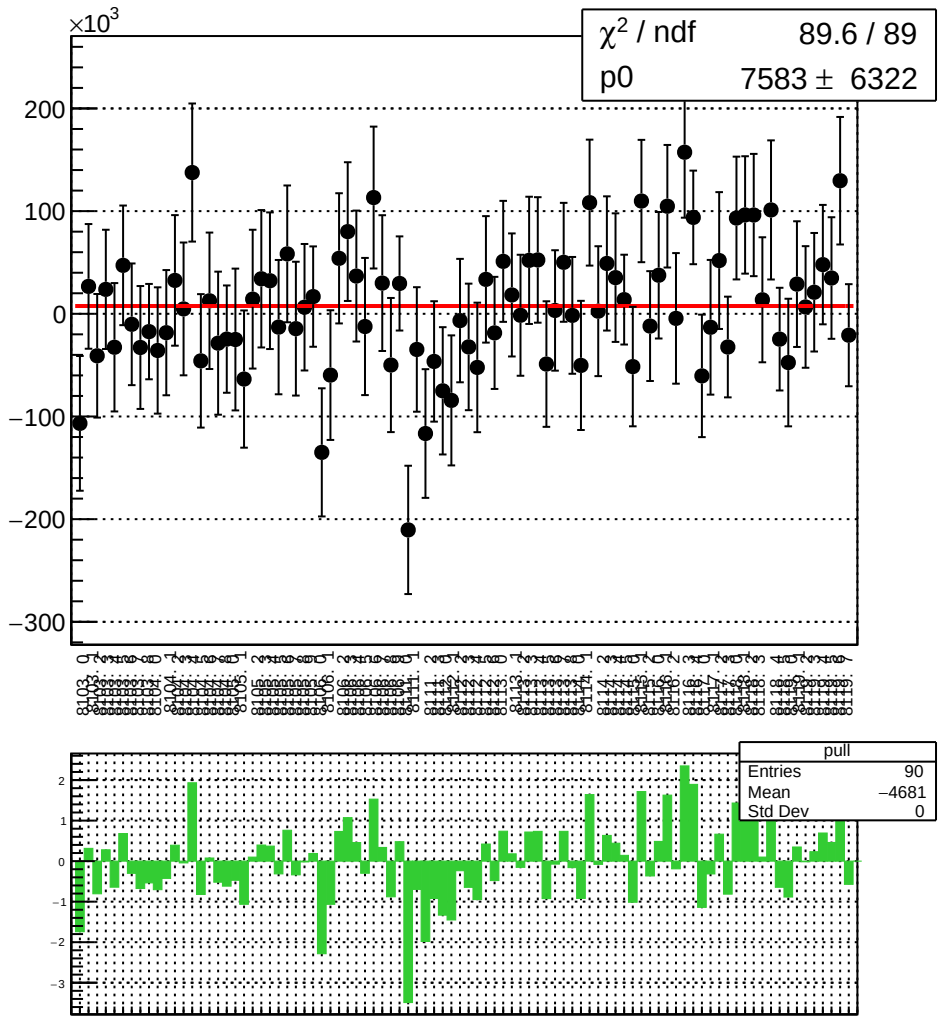

pull1D
Entries 90
Mean −0.002357
Std Dev 0.7811

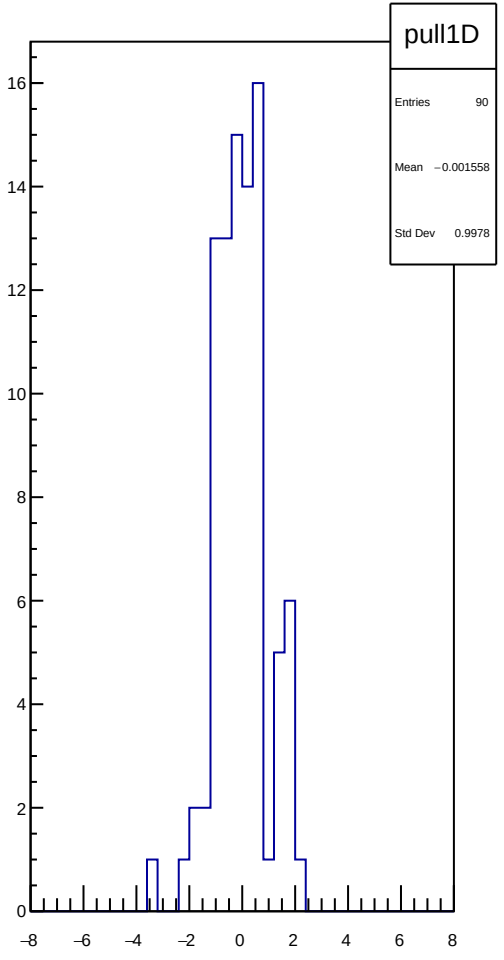

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.086e+06 / 89
p0 2.253e−10 ± 2.746e−13
2.5
2
1.5
1
0.5

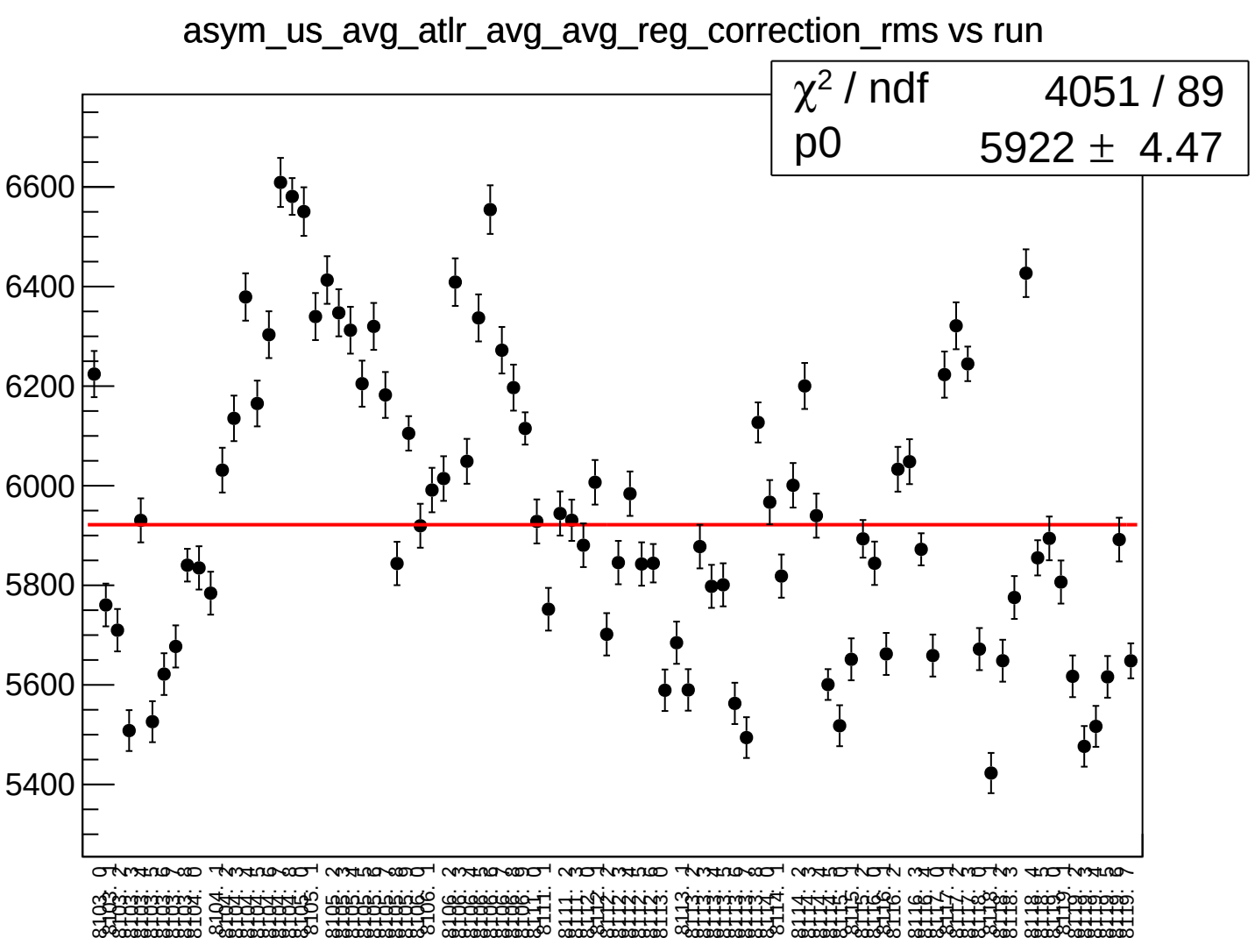

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.6 / 89
p0 5171 ± 1829
pull
Entries 90
Mean 104.2
Std Dev 43.17

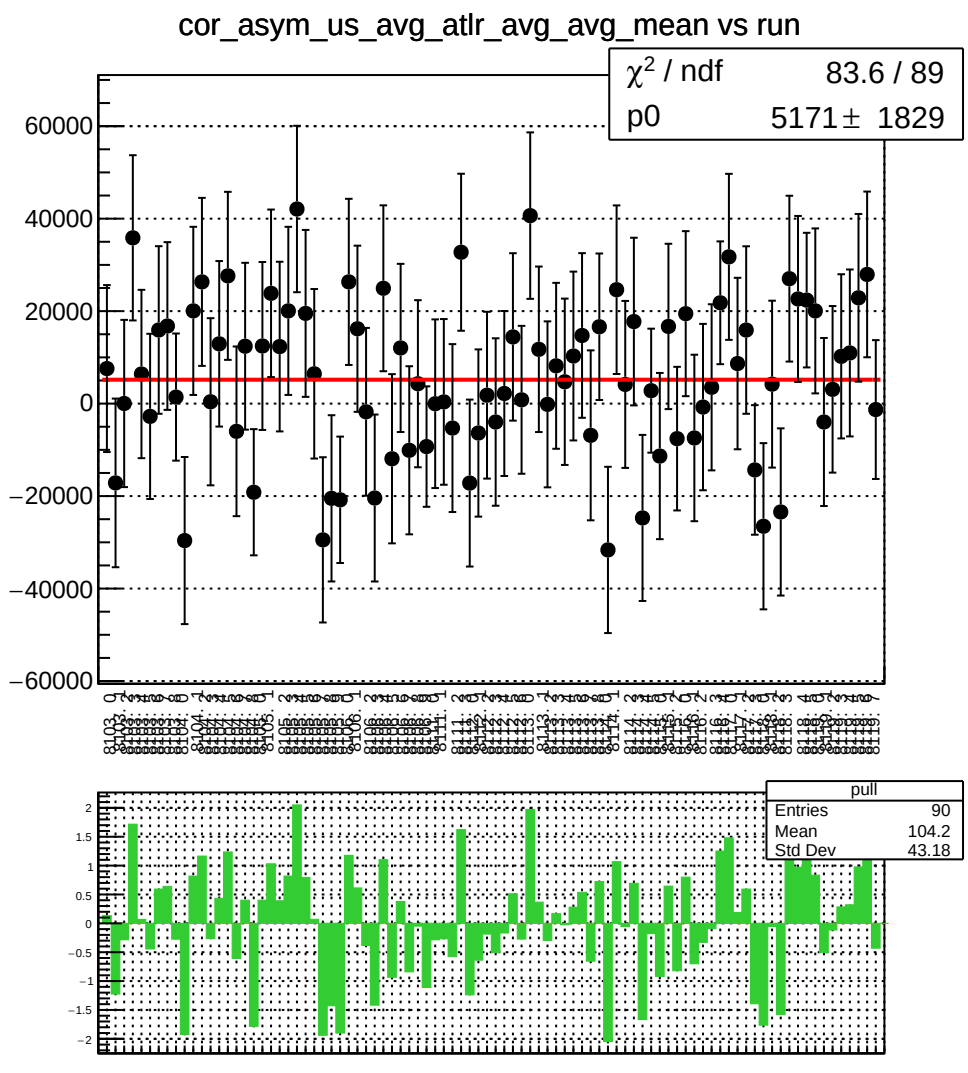

pull1D
Entries 90
Mean 0.01591
Std Dev 0.9637

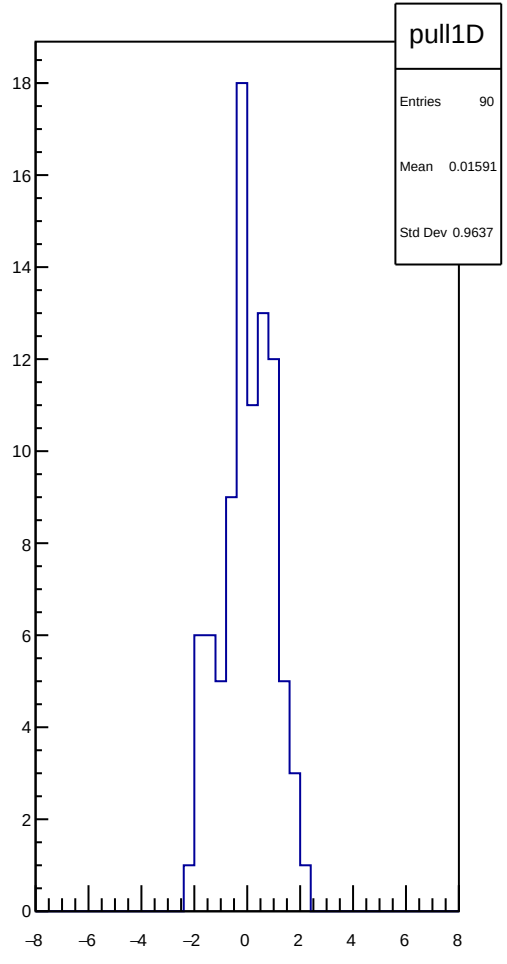

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 152.1 / 89
p0 1715 ± 1.293
1800
1780
1760
1740
1720
1700
1680
1660

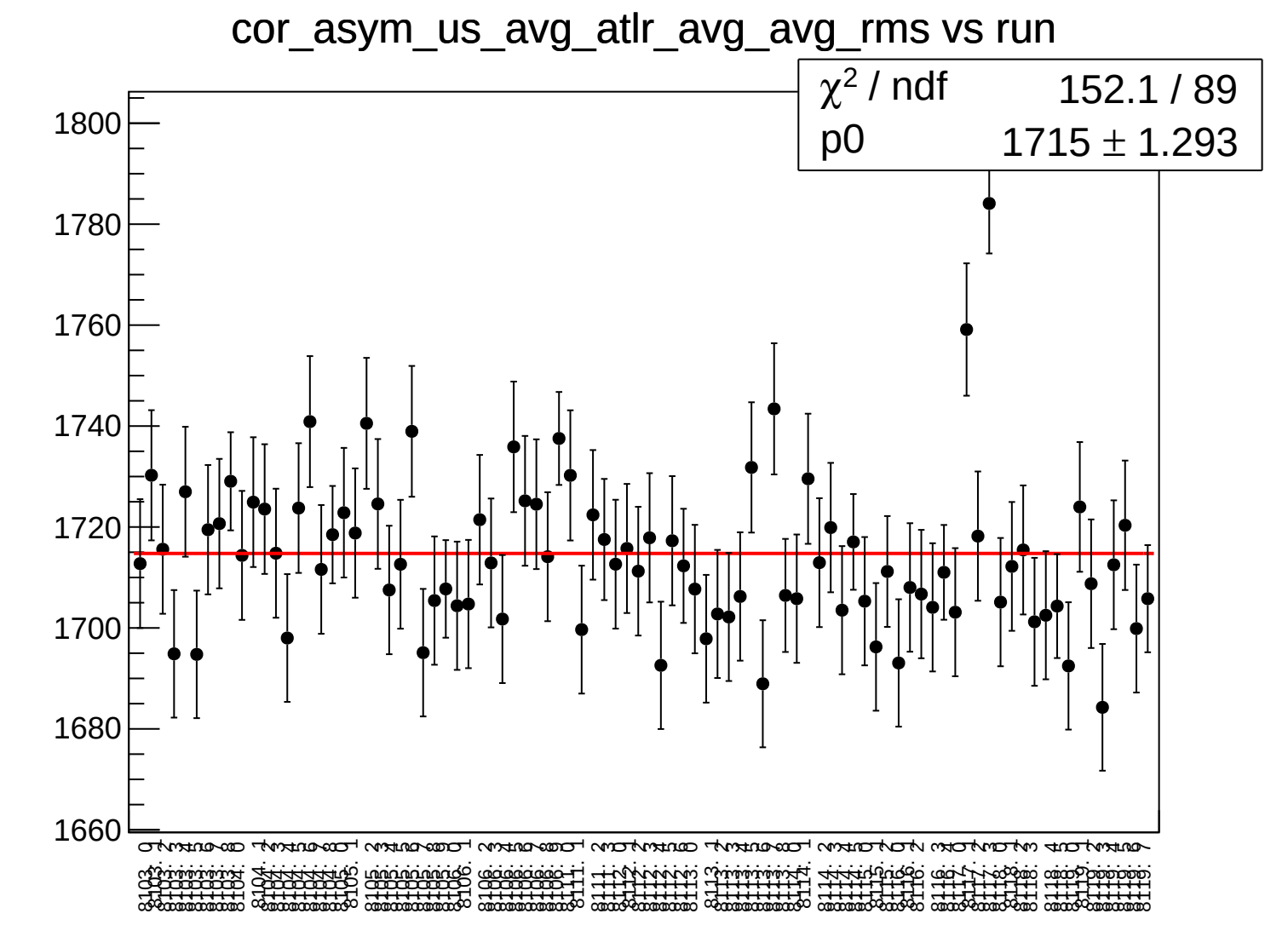

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.6 / 89
p0 7583 ± 6322
200
100
0
−100
−200
−300
pull
Entries 90
Mean −4681
Std Dev 0
2
1
0
−1
−2
−3

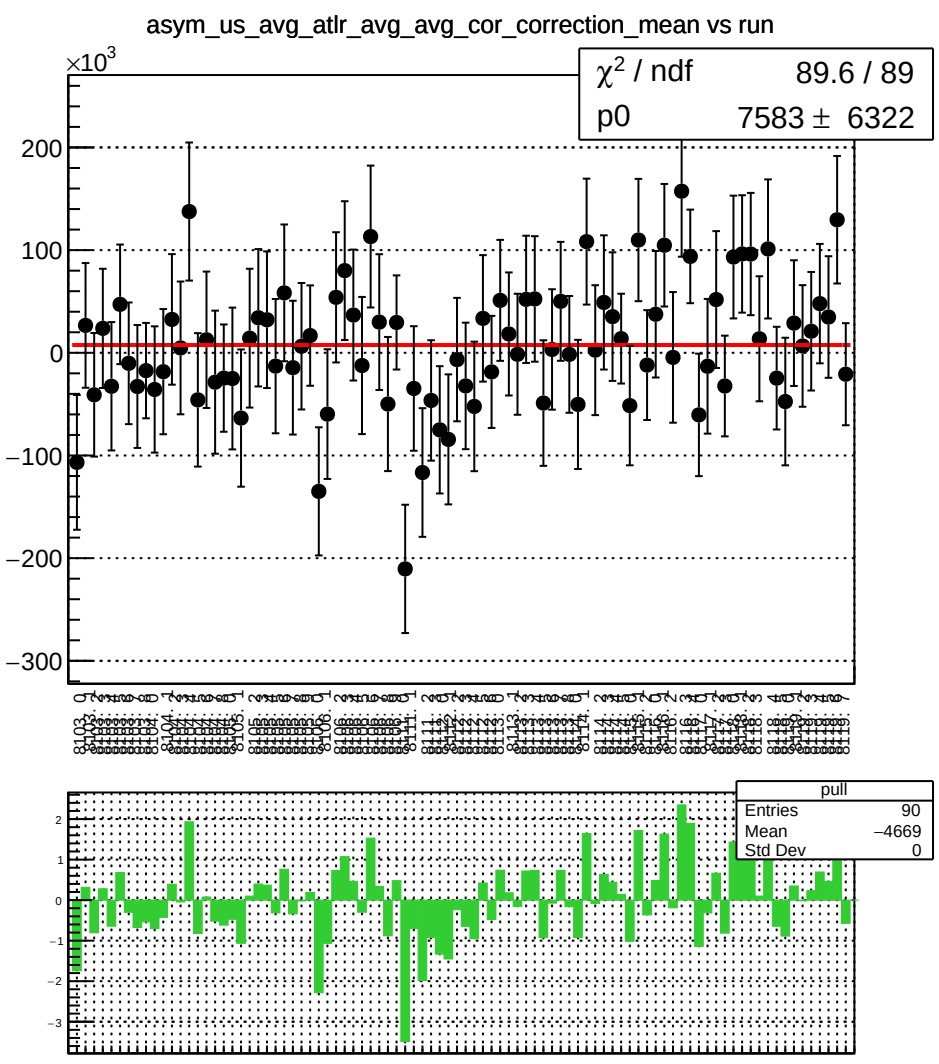

pull1D
Entries 90
Mean −0.001558
Std Dev 0.9978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

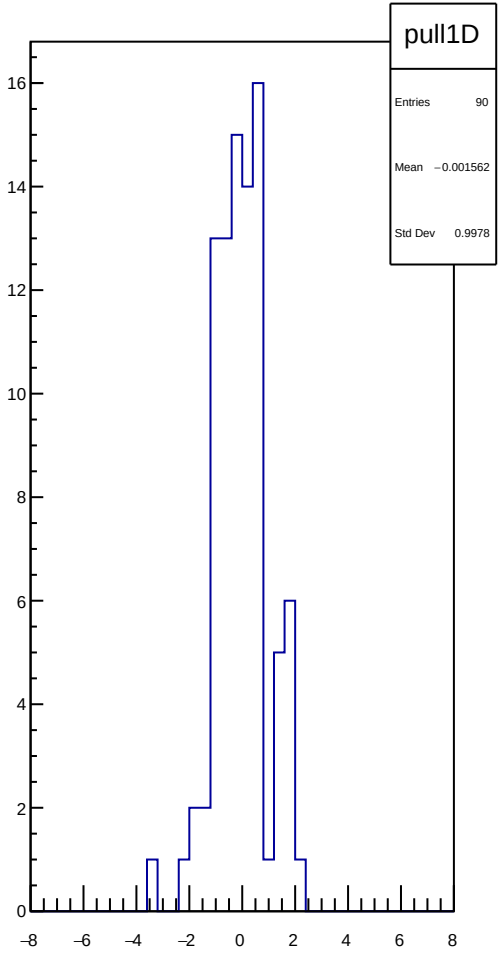

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 4051 / 89
p0 5922 ± 4.47
6600
6400
6200
6000
5800
5600
5400

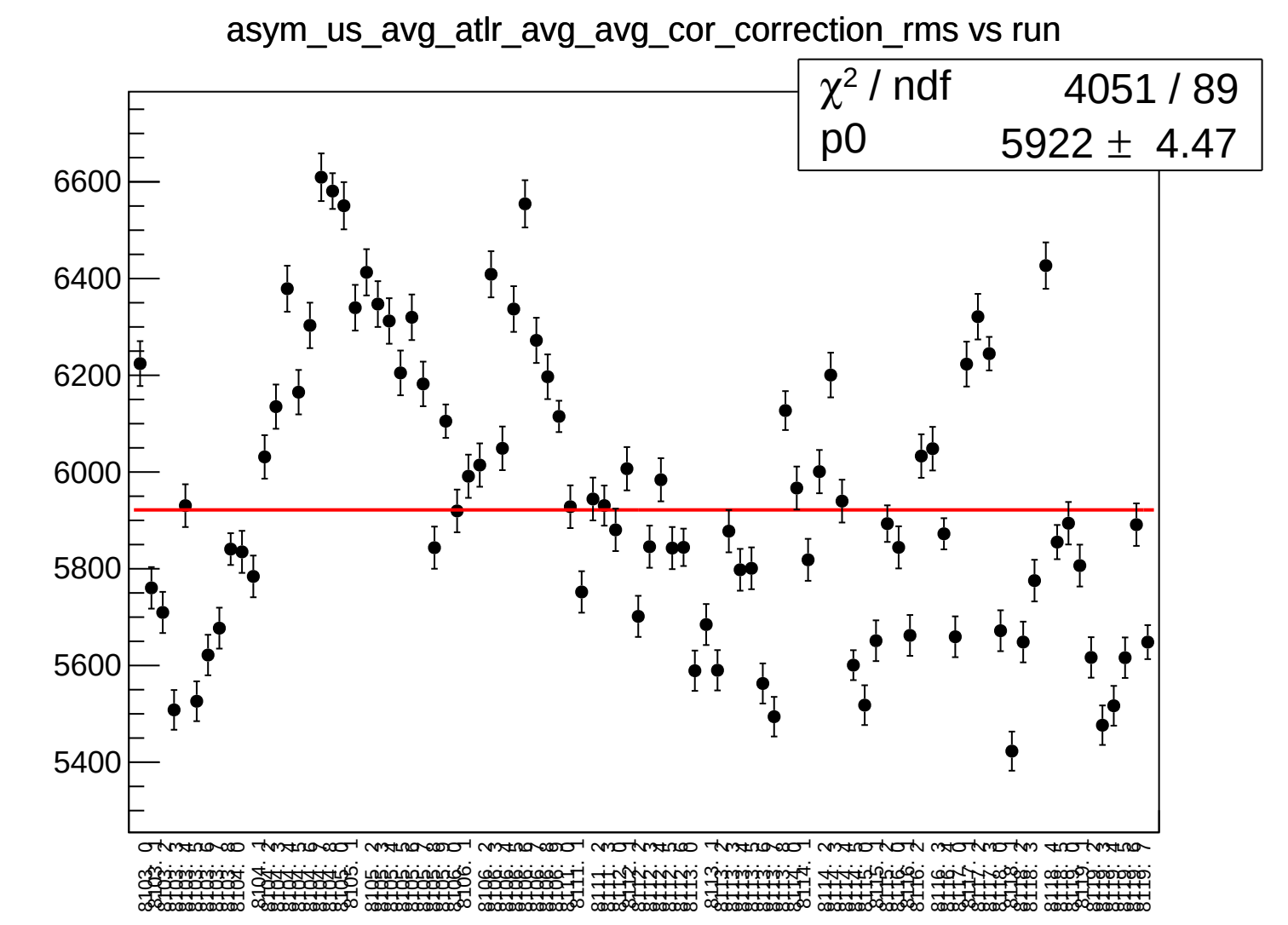

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.6 / 89
p0 5171 ± 1829
pull
Entries 90
Mean 104.2
Std Dev 43.18

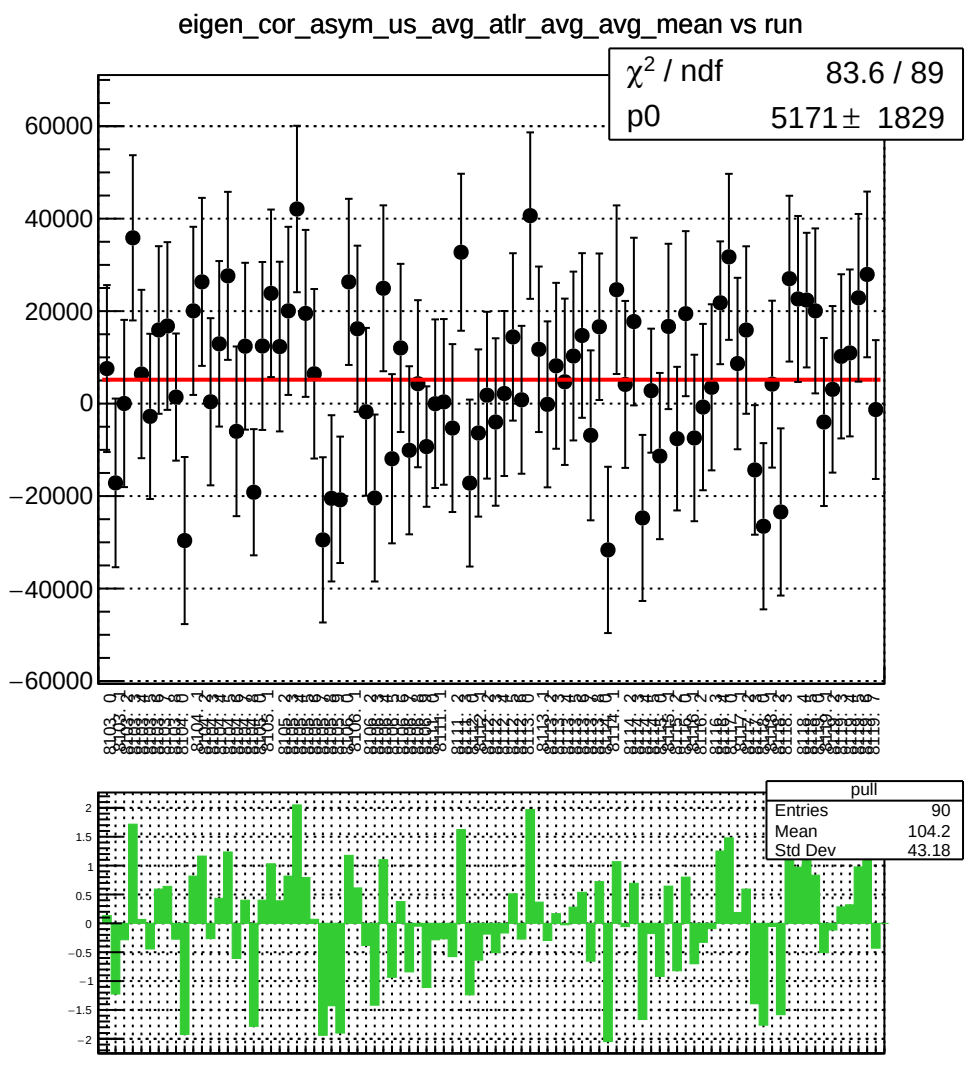

pull1D
Entries 90
Mean 0.01591
Std Dev 0.9637

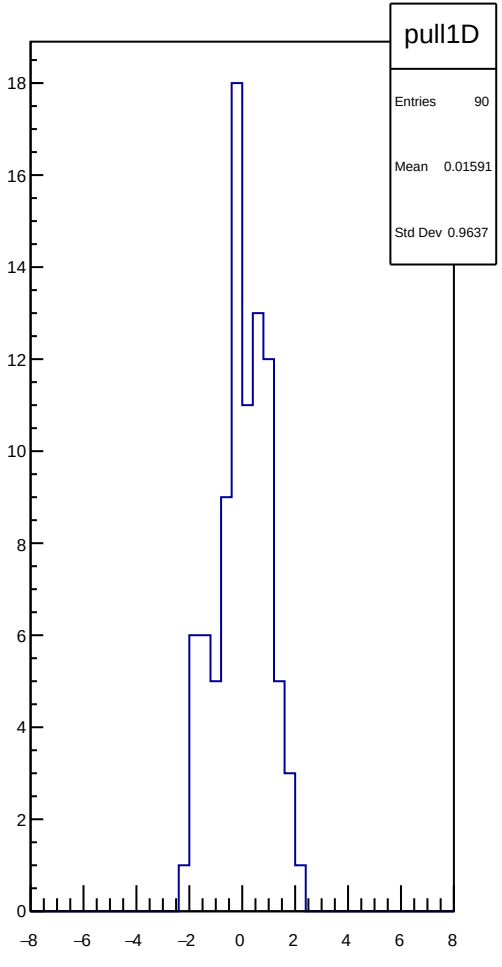

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 152.1 / 89
p0 1715 ± 1.293
1800
1780
1760
1740
1720
1700
1680
1660

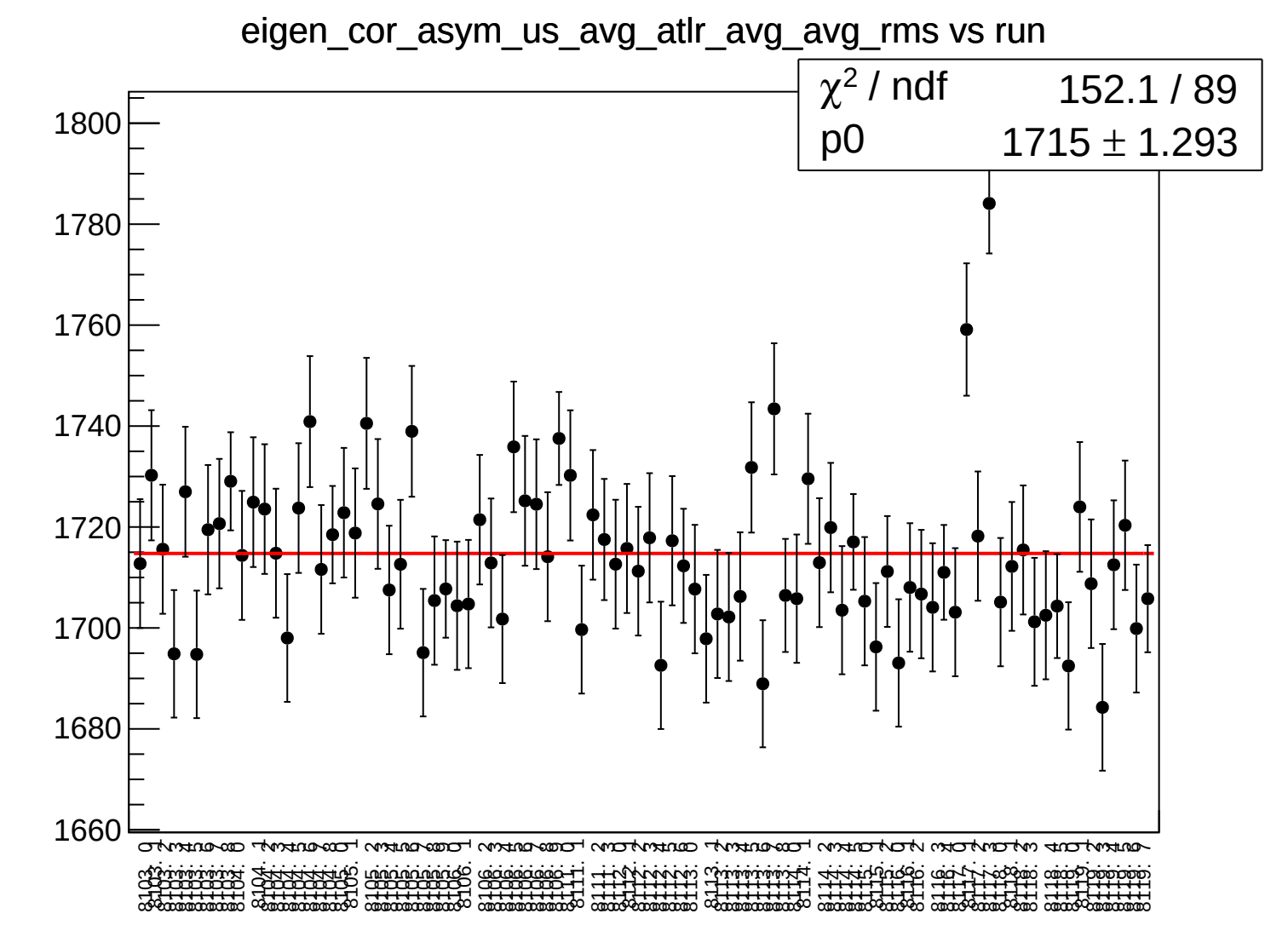

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.6 / 89
p0 7583 ± 6322
200
100
0
−100
−200
−300
pull
Entries 90
Mean −4669
Std Dev 0
2
1
0
−1
−2
−3

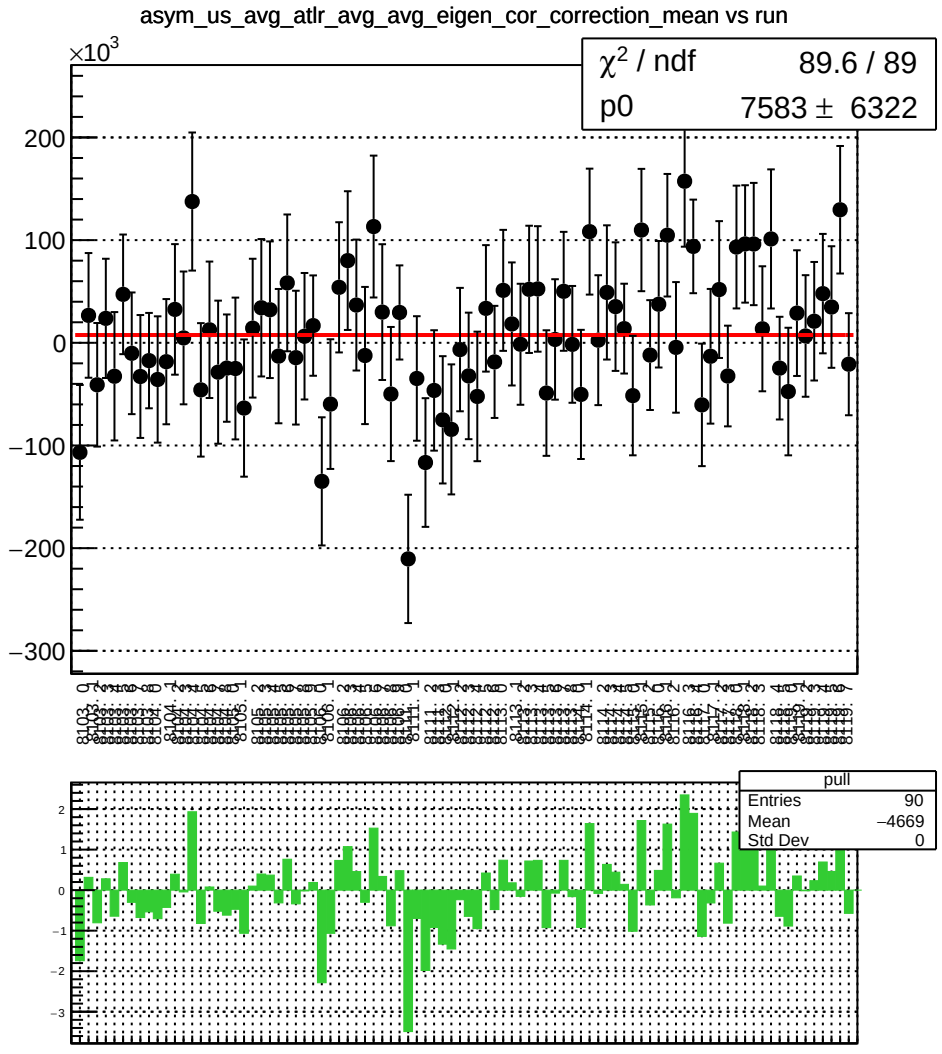

pull1D
Entries 90
Mean −0.001562
Std Dev 0.9978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

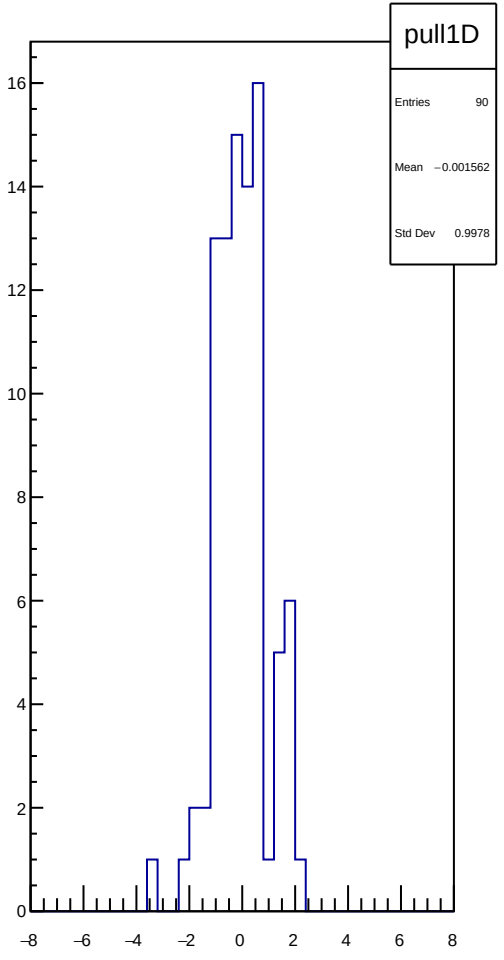

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 4051 / 89
p0 5922 ± 4.47
6600
6400
6200
6000
5800
5600
5400

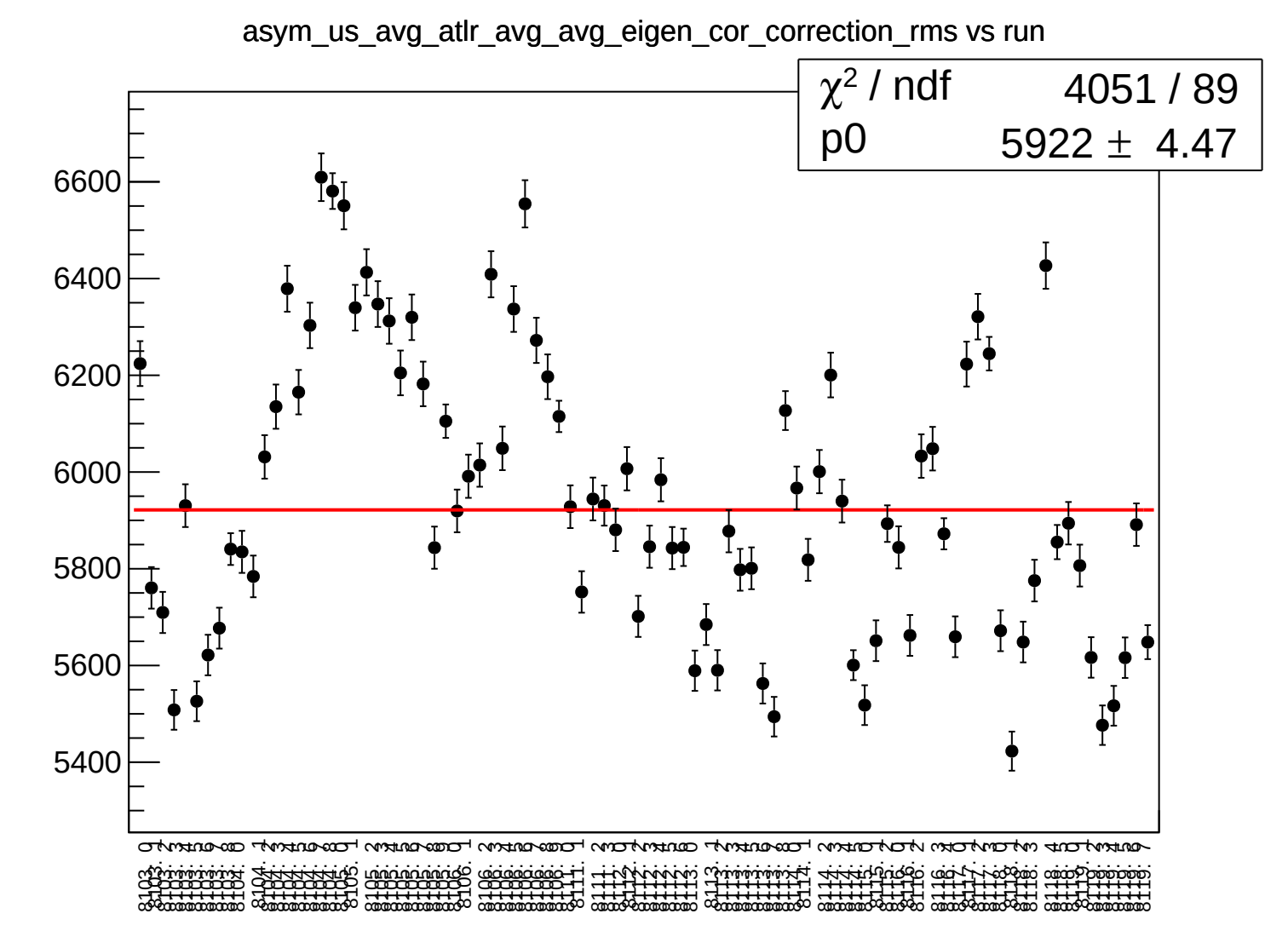

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.6 / 89
p0 5171 ± 1829
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 104.2
Std Dev 43.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

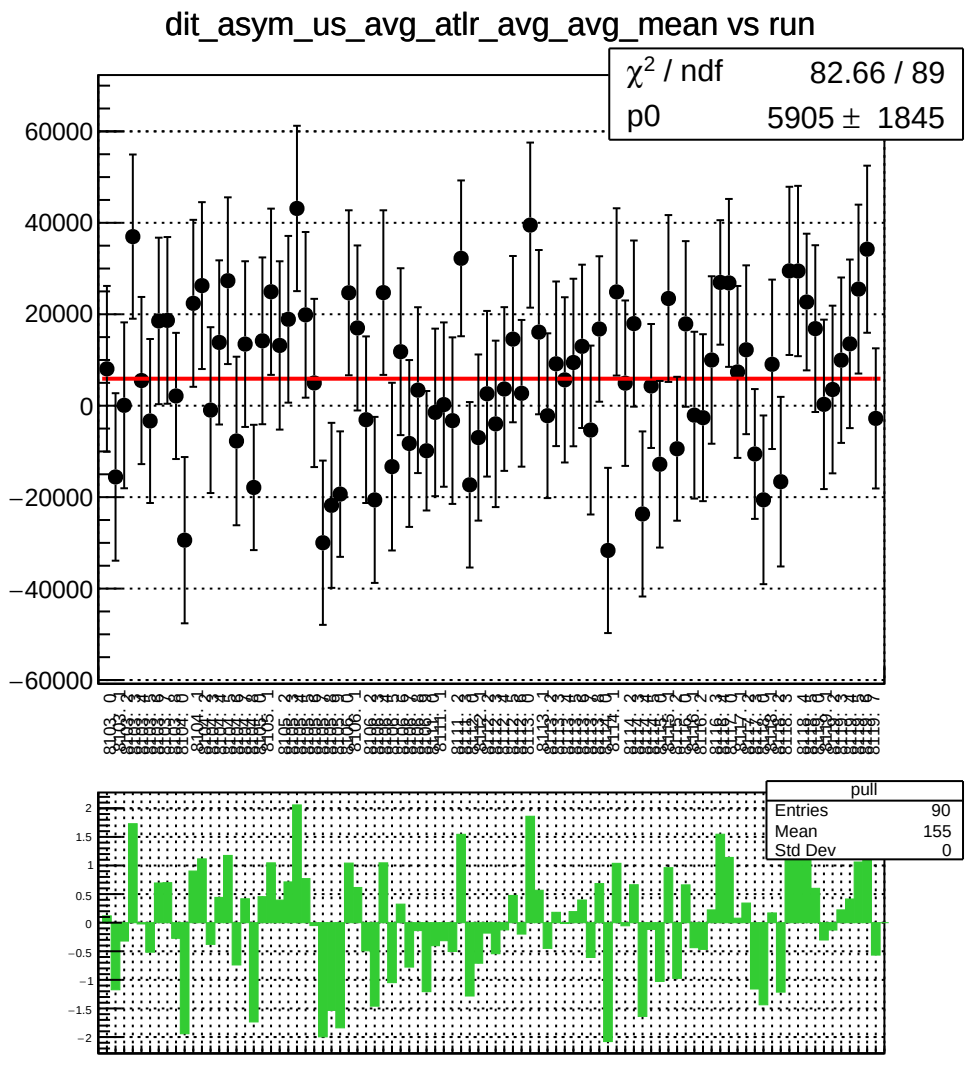

pull1D
Entries 90
Mean 0.01591
Std Dev 0.9637
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

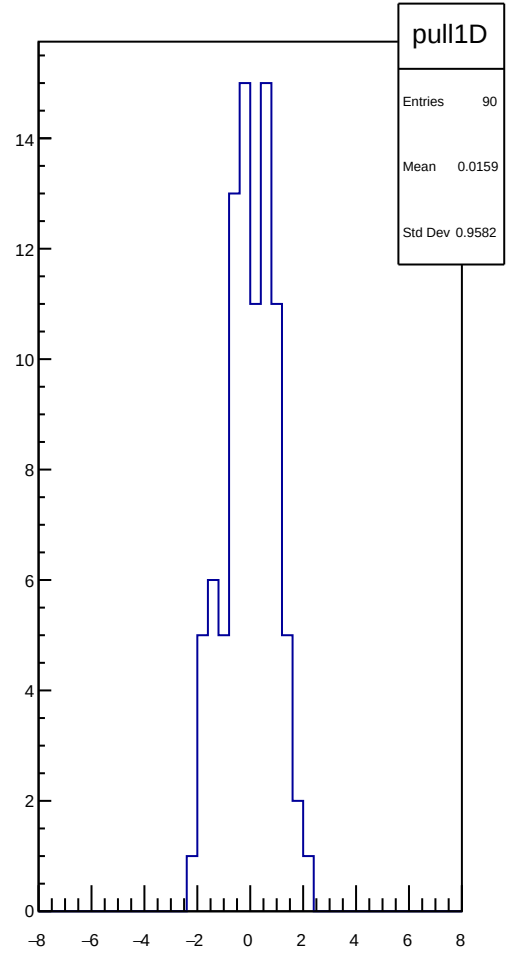

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 152.1 / 89
p0 1715 ± 1.293
1800
1780
1760
1740
1720
1700
1680
1660

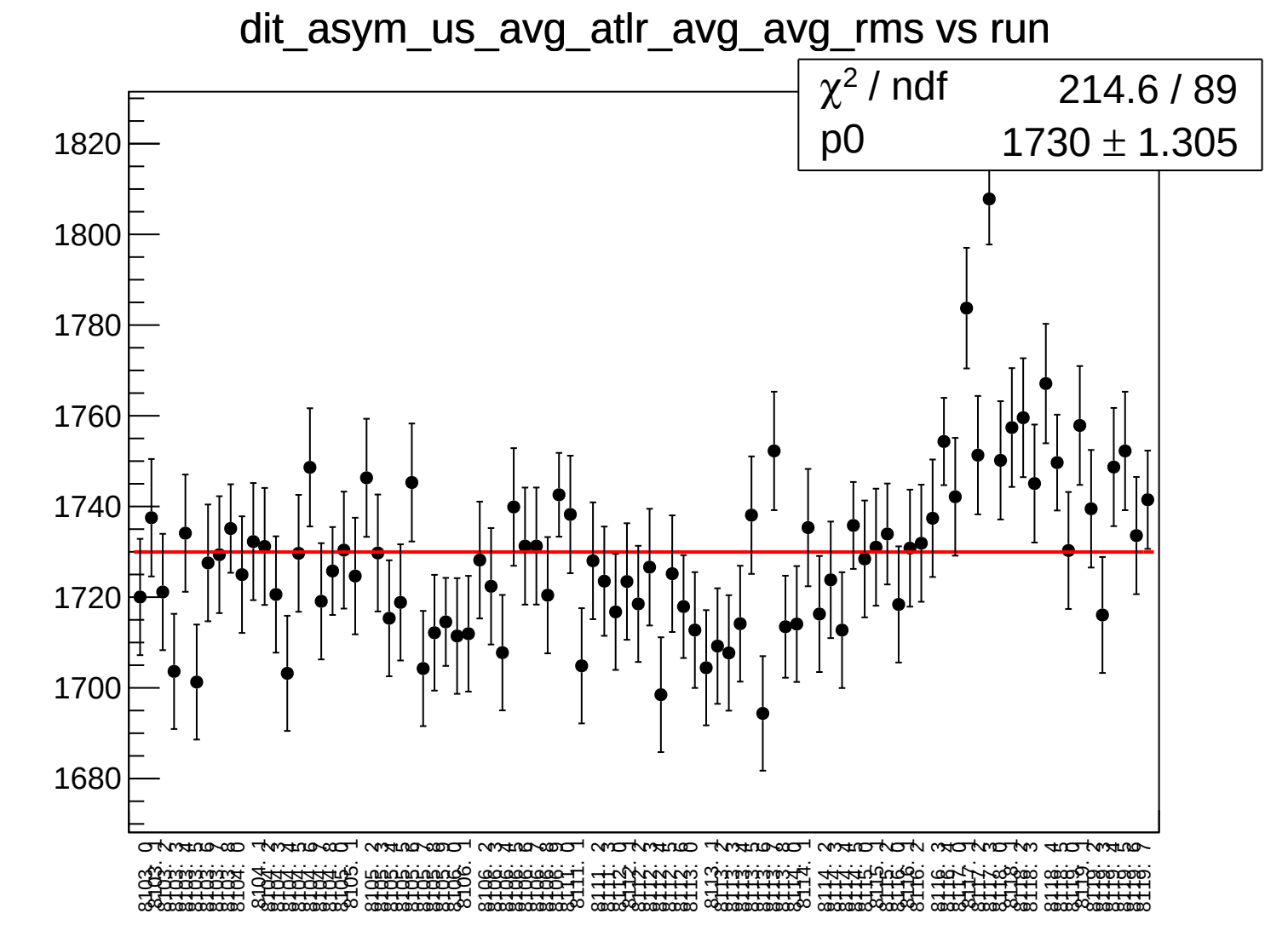

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.6 / 89
p0 7583 ± 6322
200
100
0
−100
−200
−300
pull
Entries 90
Mean −4669
Std Dev 0
2
1
0
−1
−2
−3

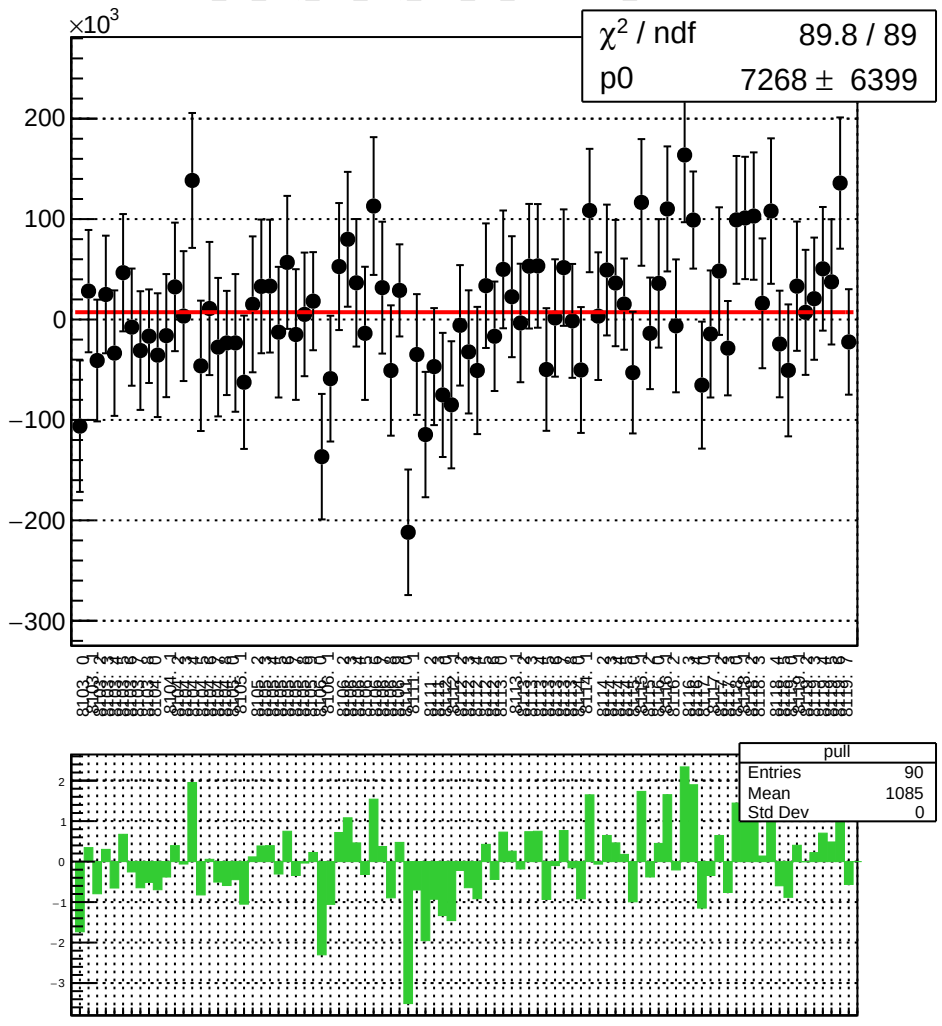

pull1D
Entries 90
Mean −0.001562
Std Dev 0.9978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

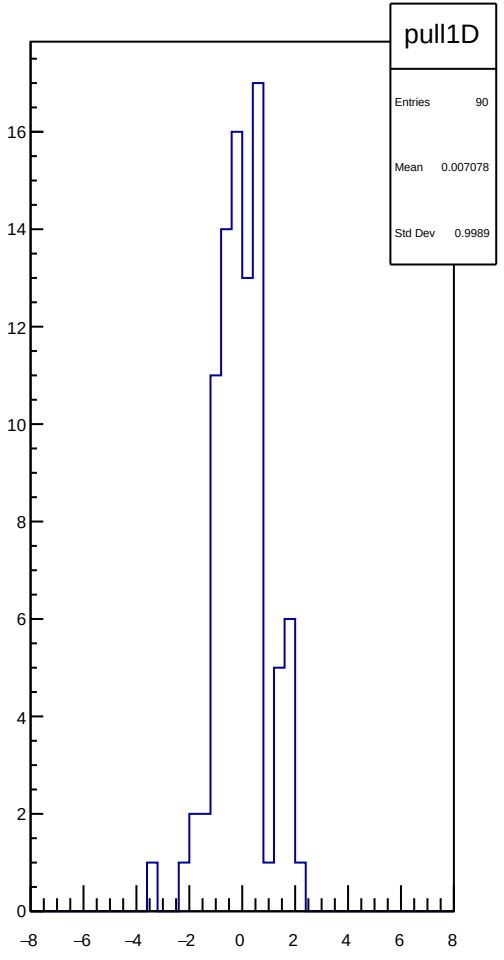

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4051 / 89
p0 5922 ± 4.47
6600
6400
6200
6000
5800
5600
5400

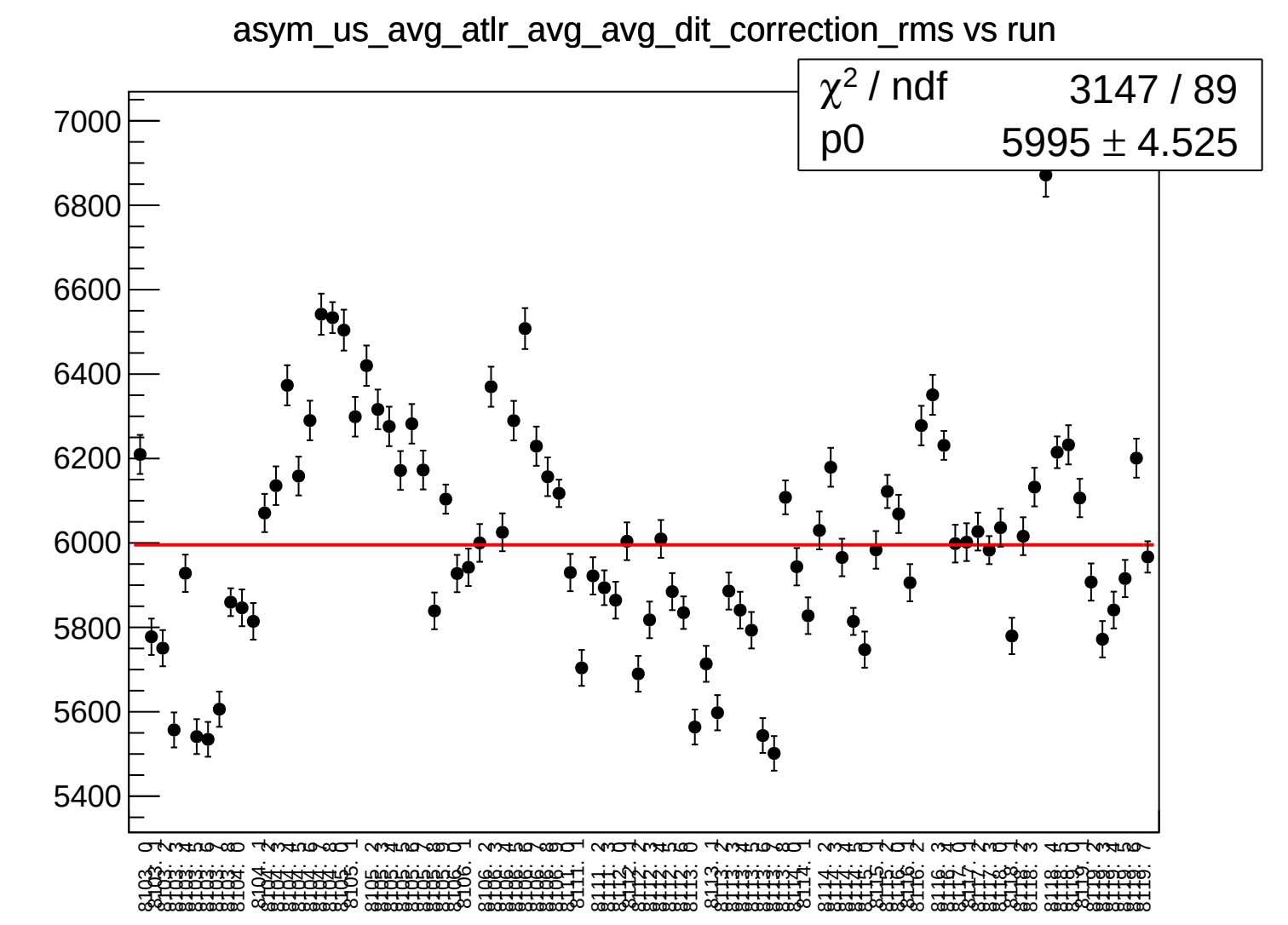

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 82.66 / 89
p0 5905 ± 1845
pull
Entries 90
Mean 155
Std Dev 0

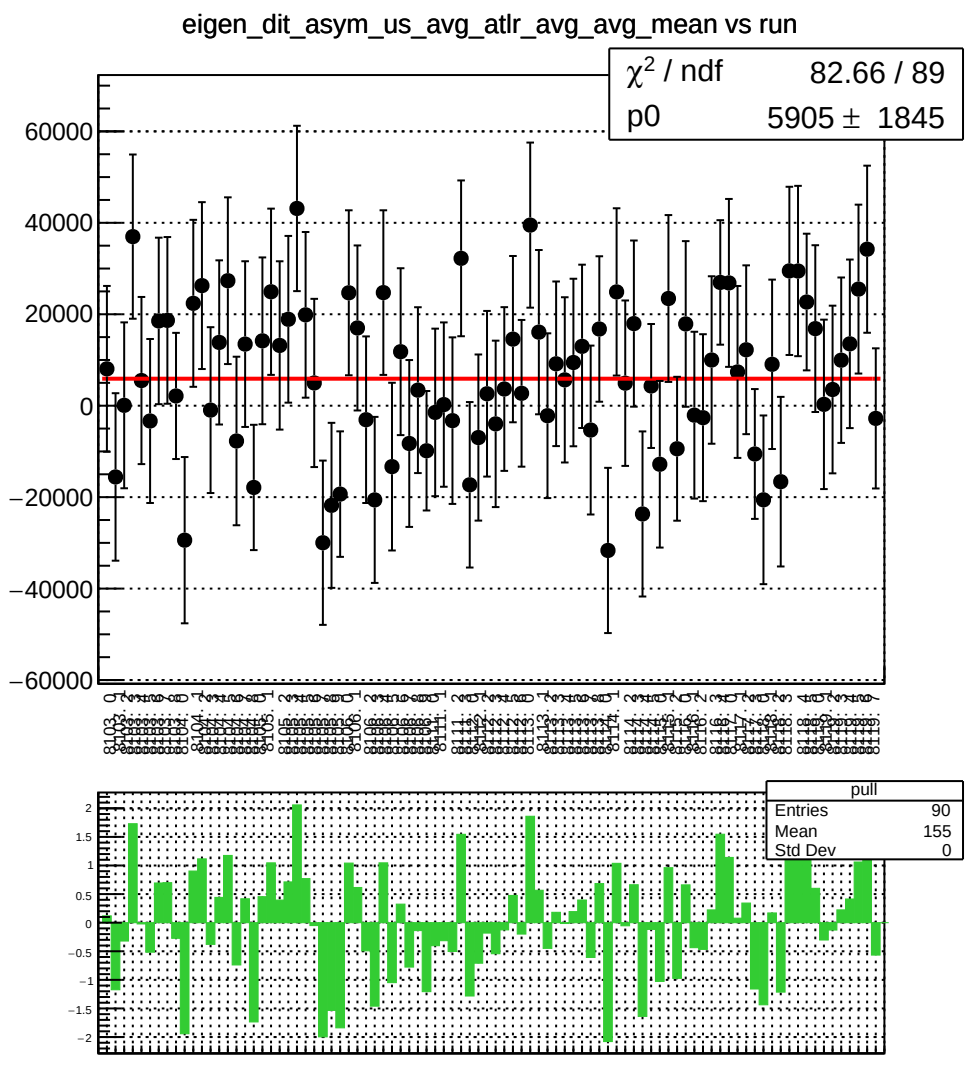

pull1D
Entries 90
Mean 0.0159
Std Dev 0.9582

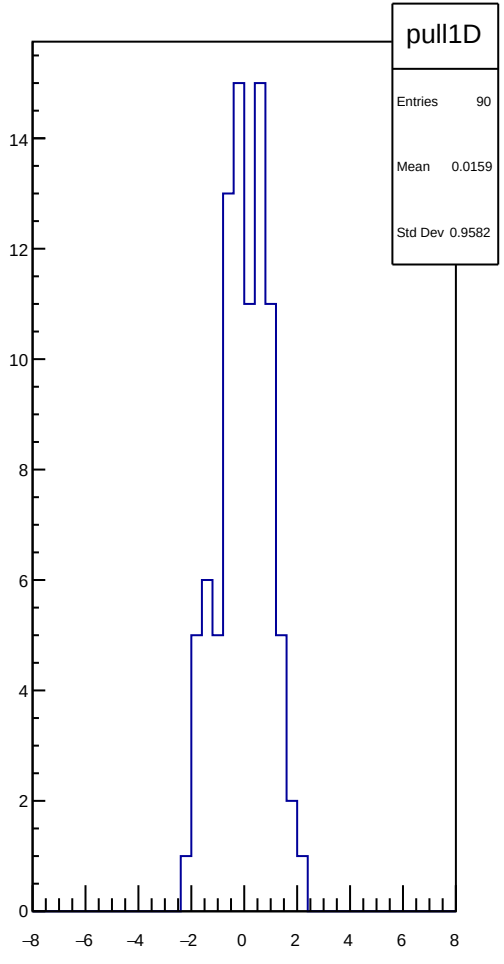

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 214.6 / 89
p0 1730 ± 1.305
1820
1800
1780
1760
1740
1720
1700
1680

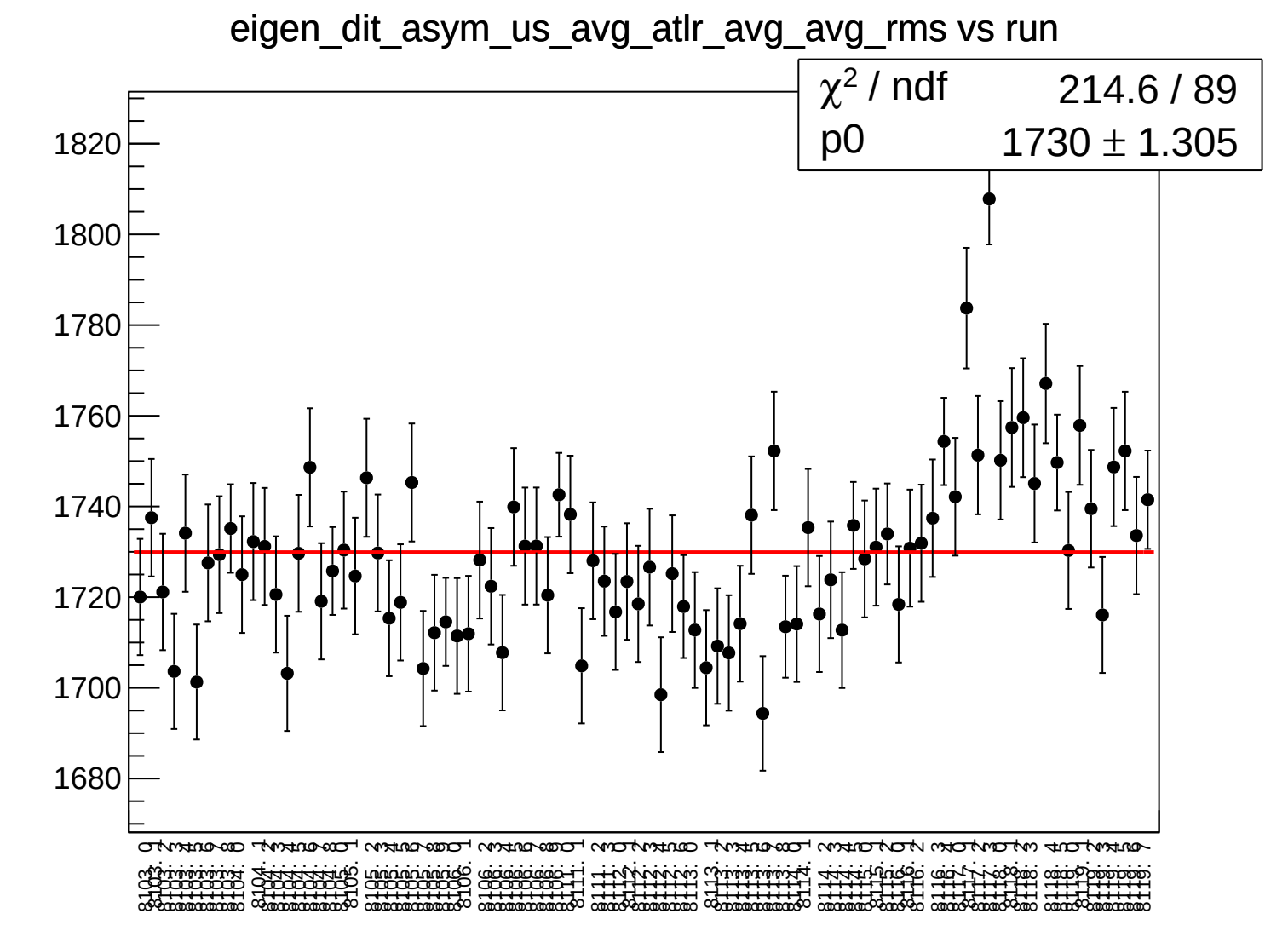

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 89.8 / 89
p0 7268 ± 6399
200
100
0
−100
−200
−300
pull
Entries 90
Mean 1085
Std Dev 0
2
1
0
−1
−2
−3

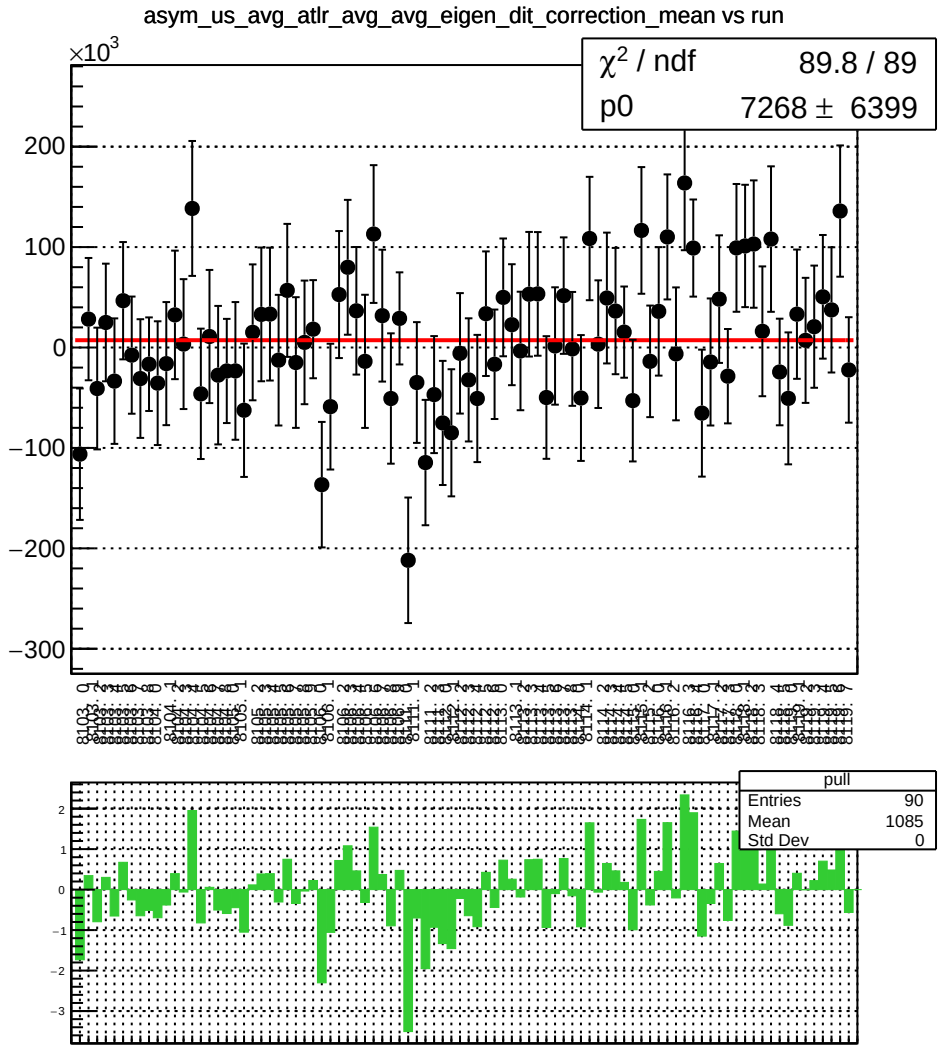

pull1D
Entries 90
Mean 0.007078
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

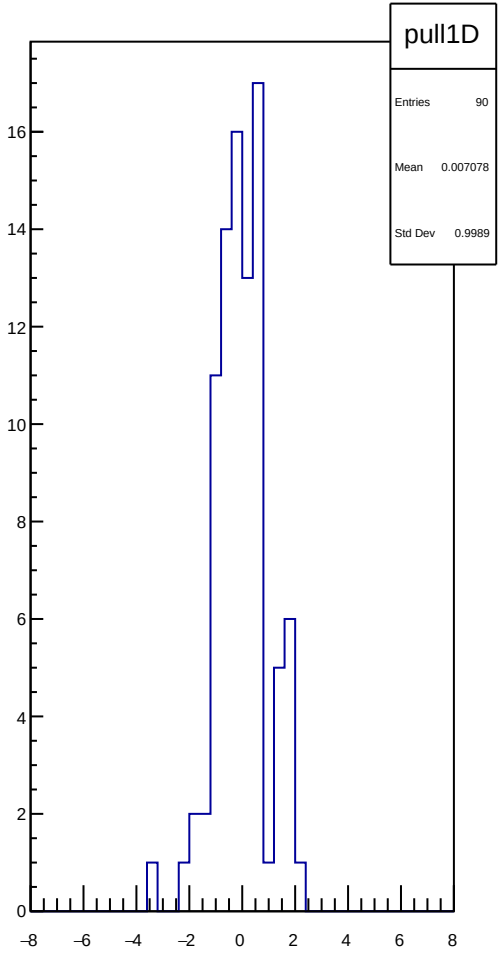

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 3147 / 89
p0 5995 ± 4.525
7000
6800
6600
6400
6200
6000
5800
5600
5400

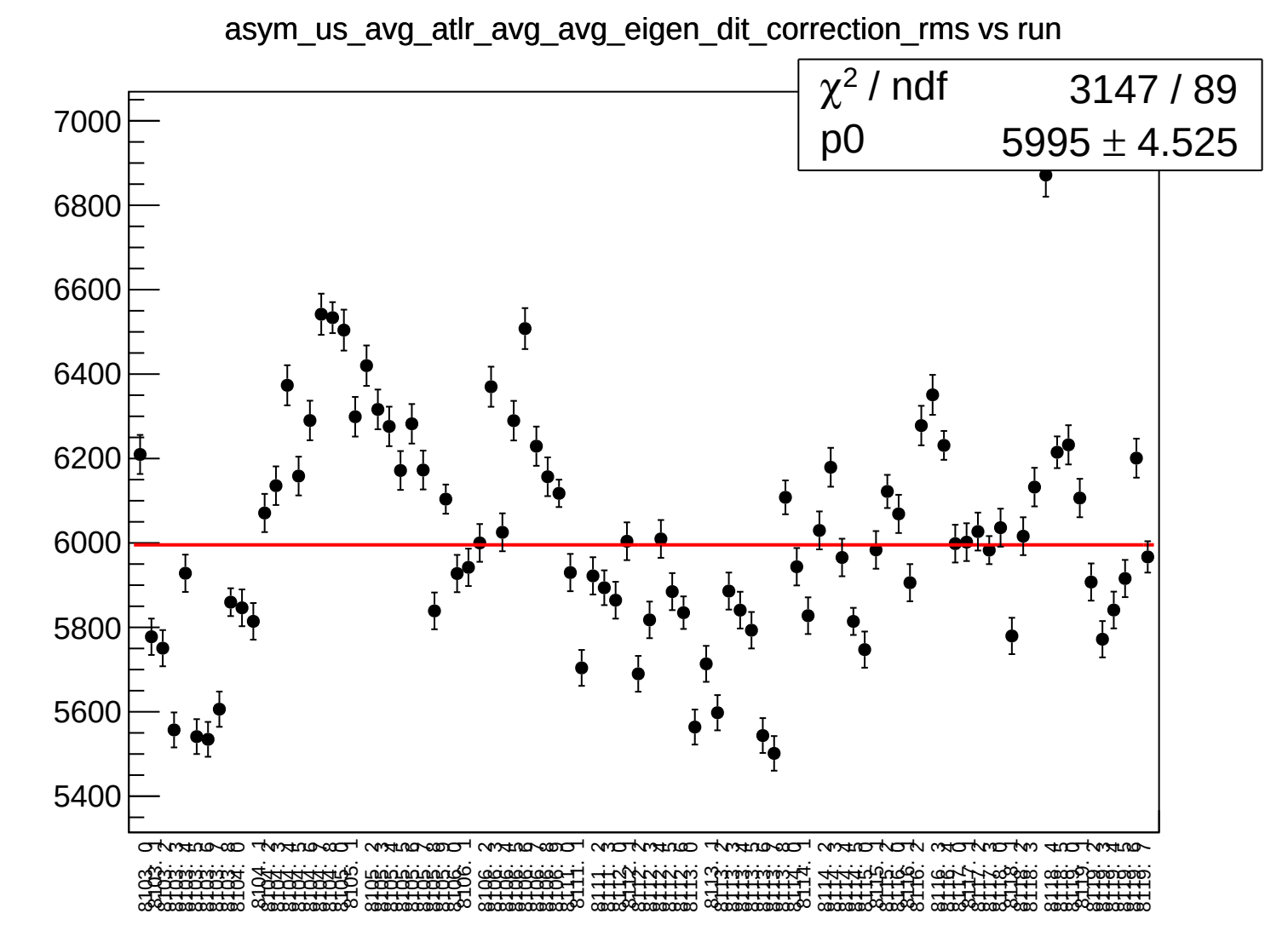

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 82.66 / 89
p0 5905 ± 1845
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 155
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

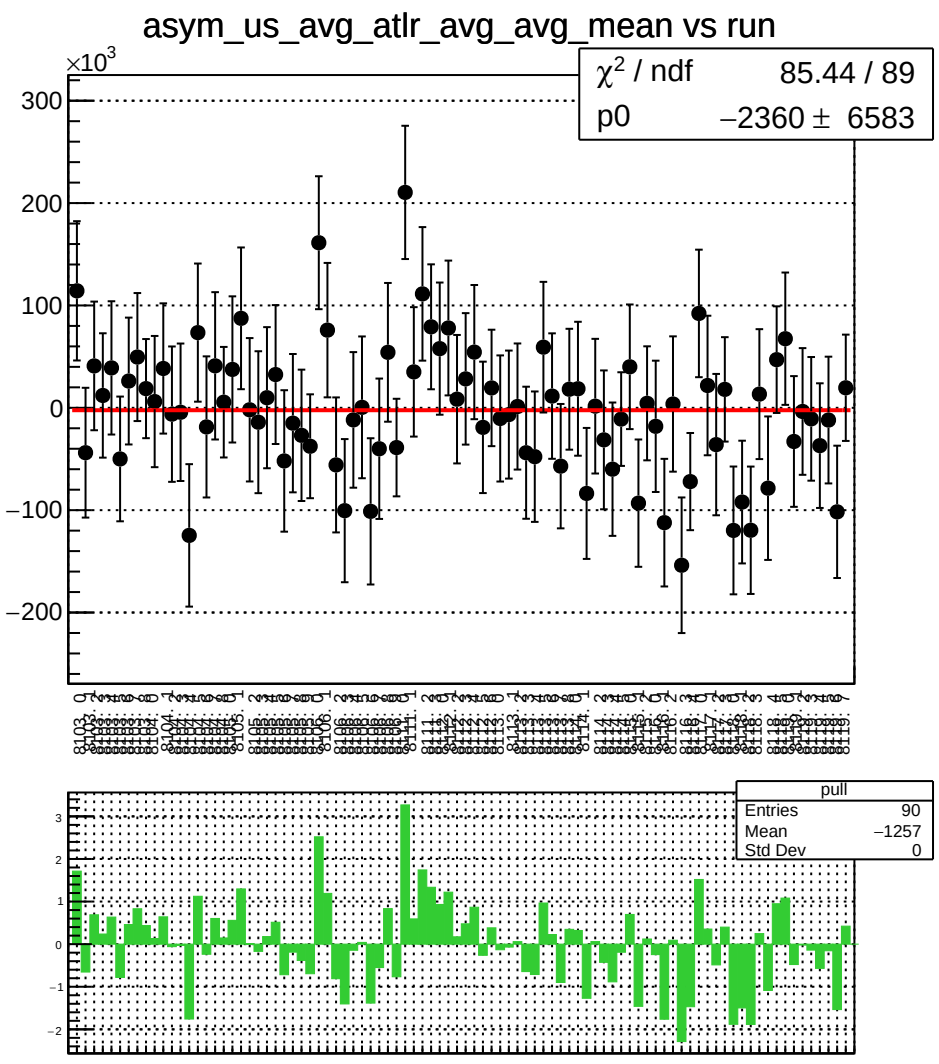

pull1D
Entries 90
Mean 0.0159
Std Dev 0.9582
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

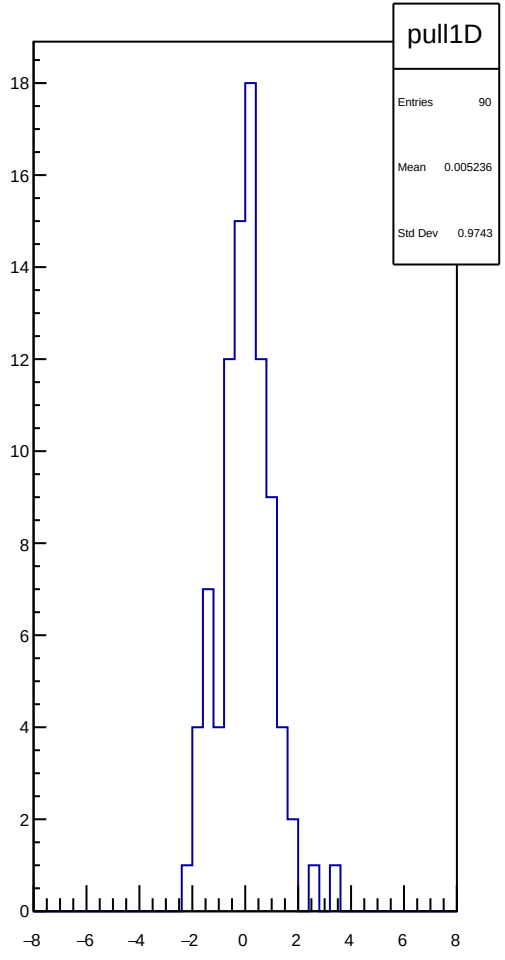

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 214.6 / 89
p0 1730 ± 1.305
1820
1800
1780
1760
1740
1720
1700
1680

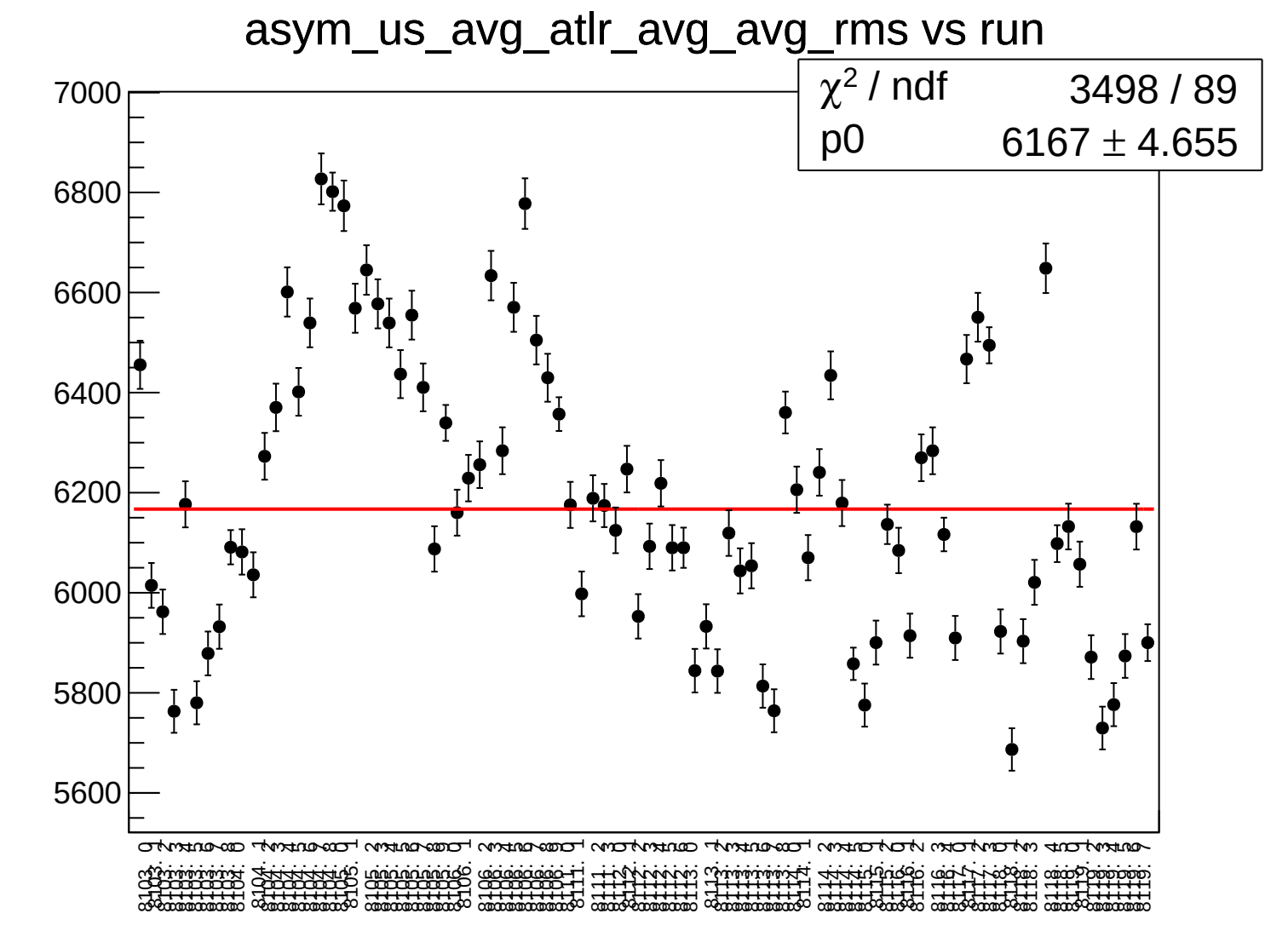

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 89.8 / 89
p0 7268 ± 6399
200
100
0
−100
−200
−300
pull
Entries 90
Mean 1085
Std Dev 0
2
1
0
−1
−2
−3

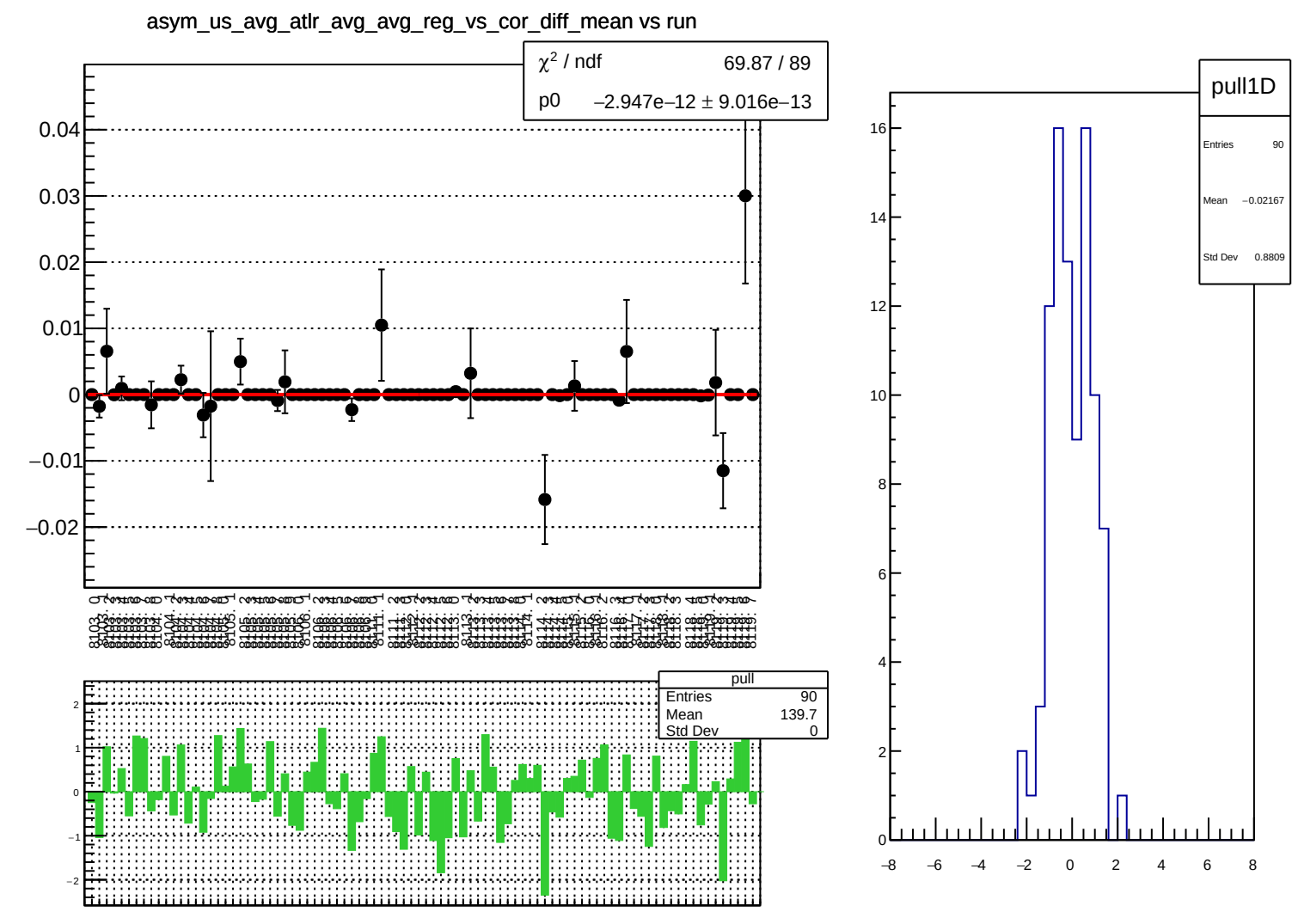

pull1D
Entries 90
Mean 0.007078
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

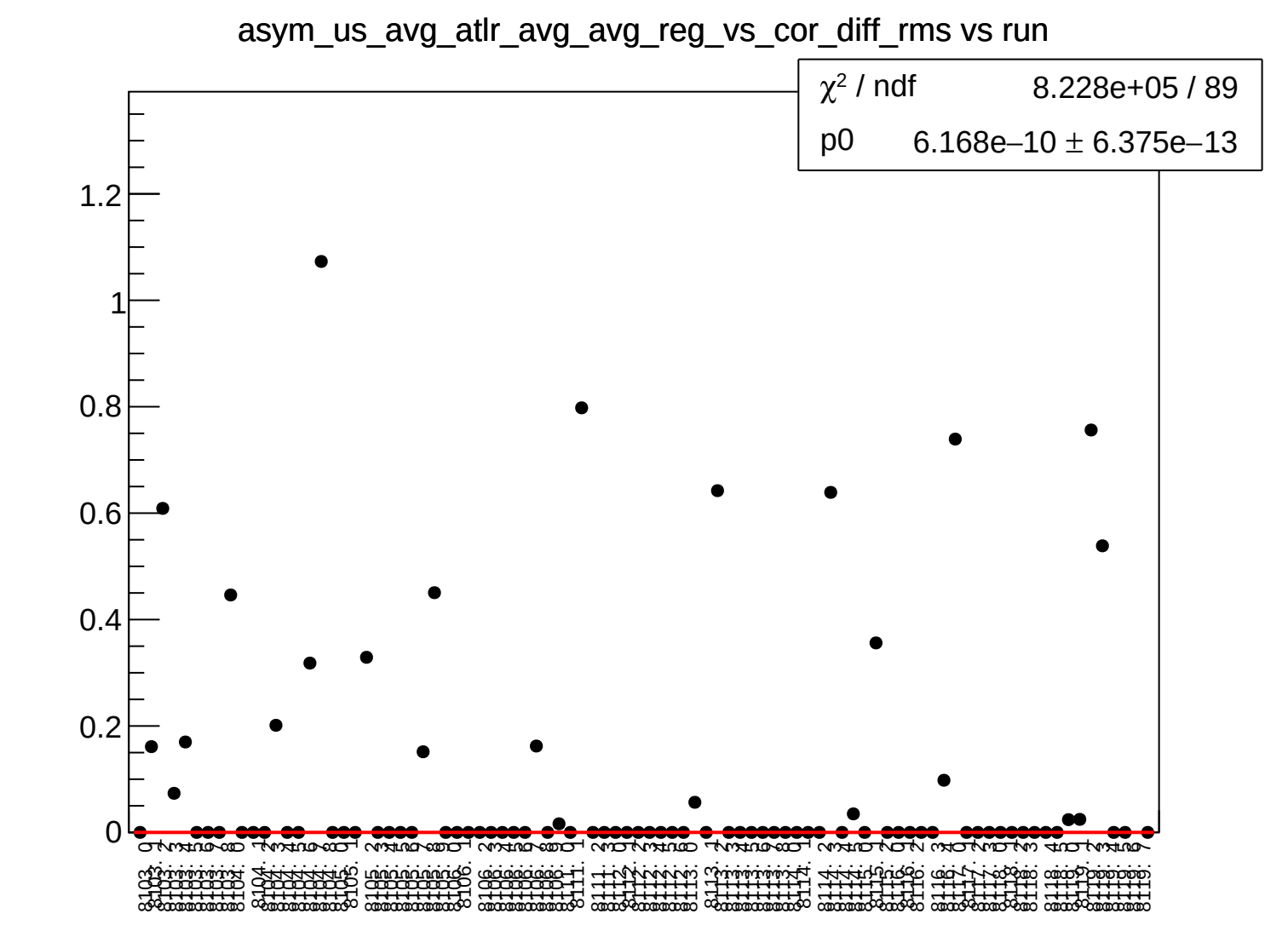

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3147 / 89
p0 5995 ± 4.525
7000
6800
6600
6400
6200
6000
5800
5600
5400

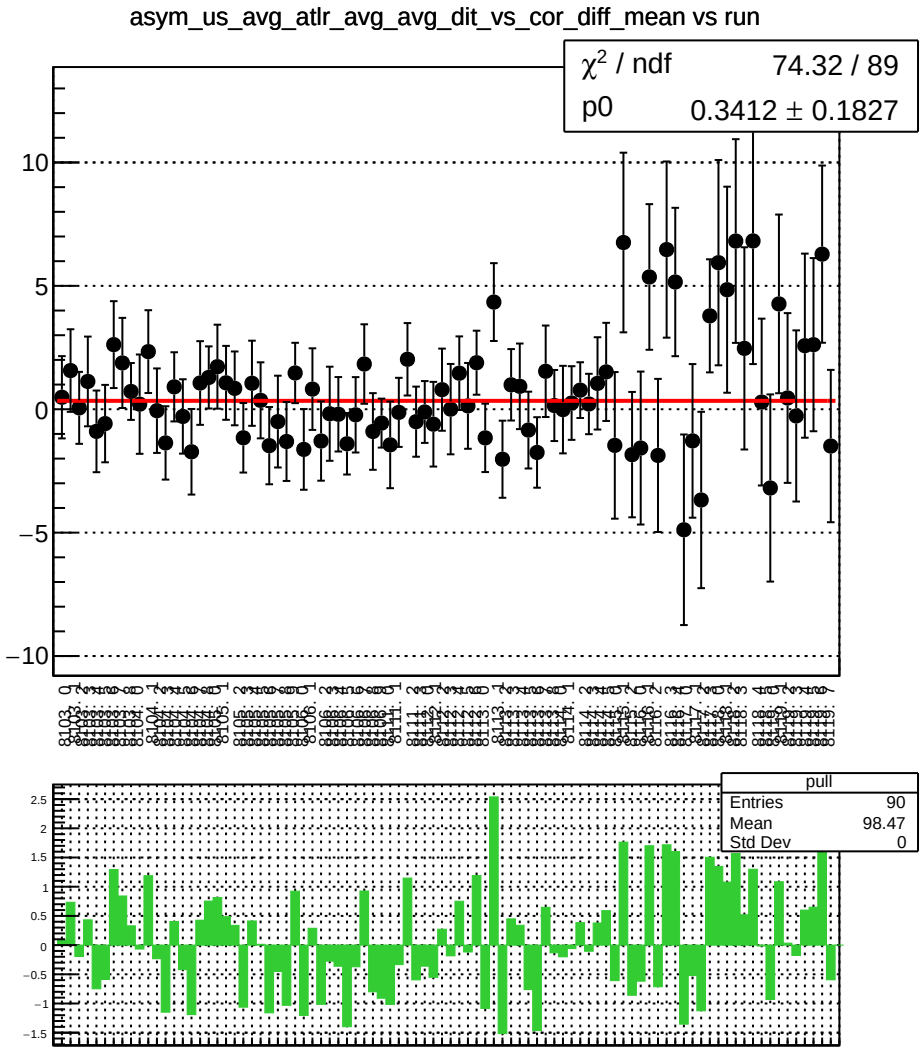

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 85.44 / 89
p0 −2360 ± 6583
300
200
100
0
−100
−200
pull
Entries 90
Mean −1257
Std Dev 0
3
2
1
0
−1
−2

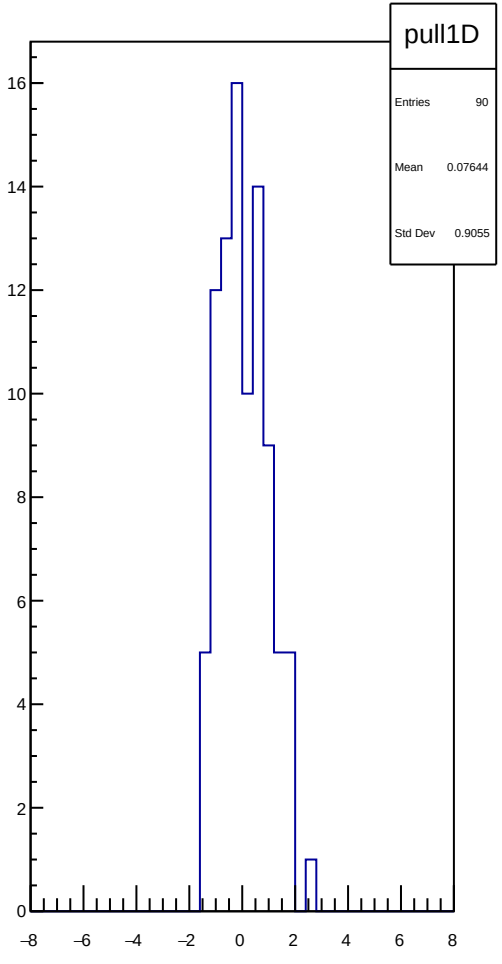

pull1D
Entries 90
Mean 0.005236
Std Dev 0.9743
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

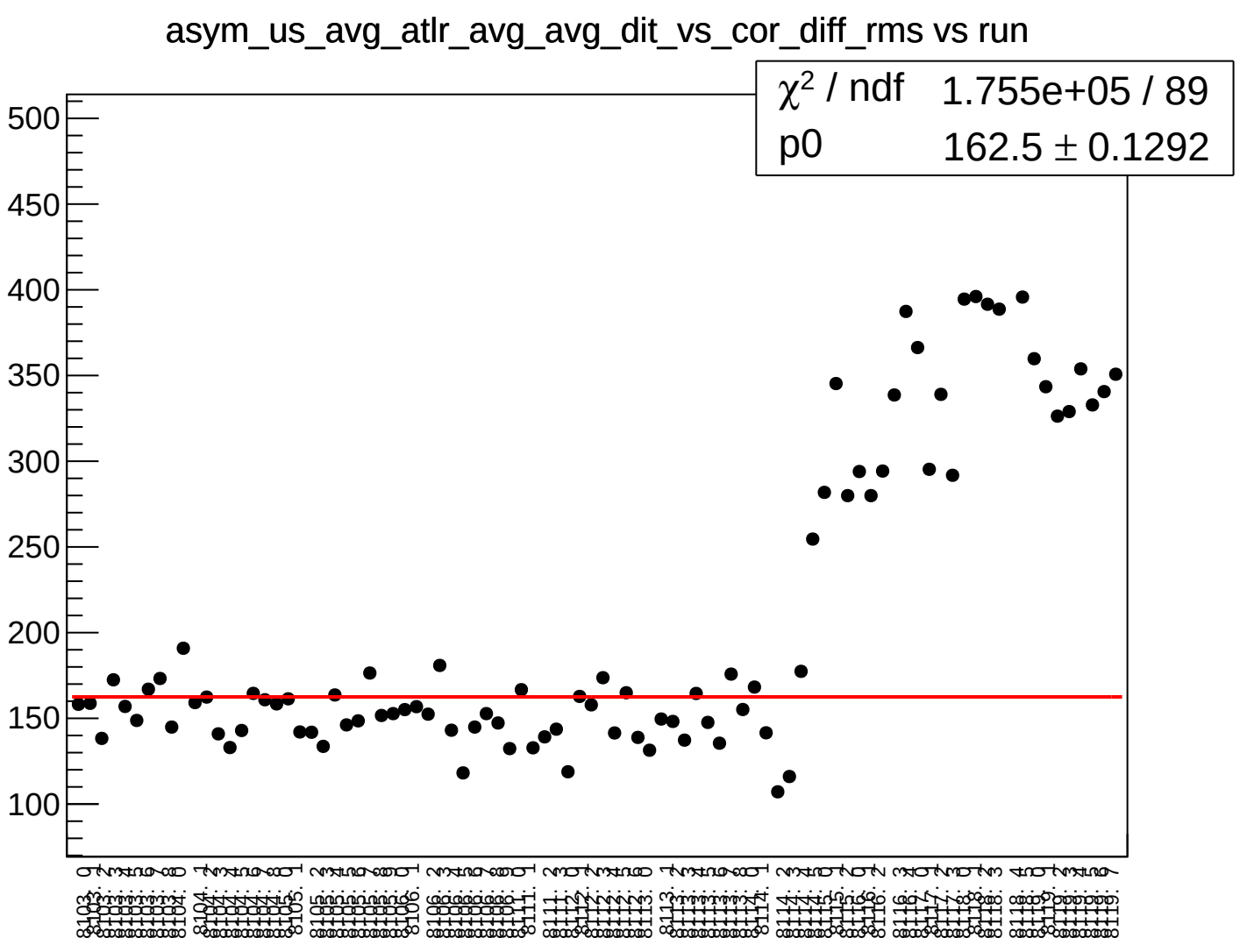

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 3498 / 89
p0 6167 ± 4.655
7000
6800
6600
6400
6200
6000
5800
5600

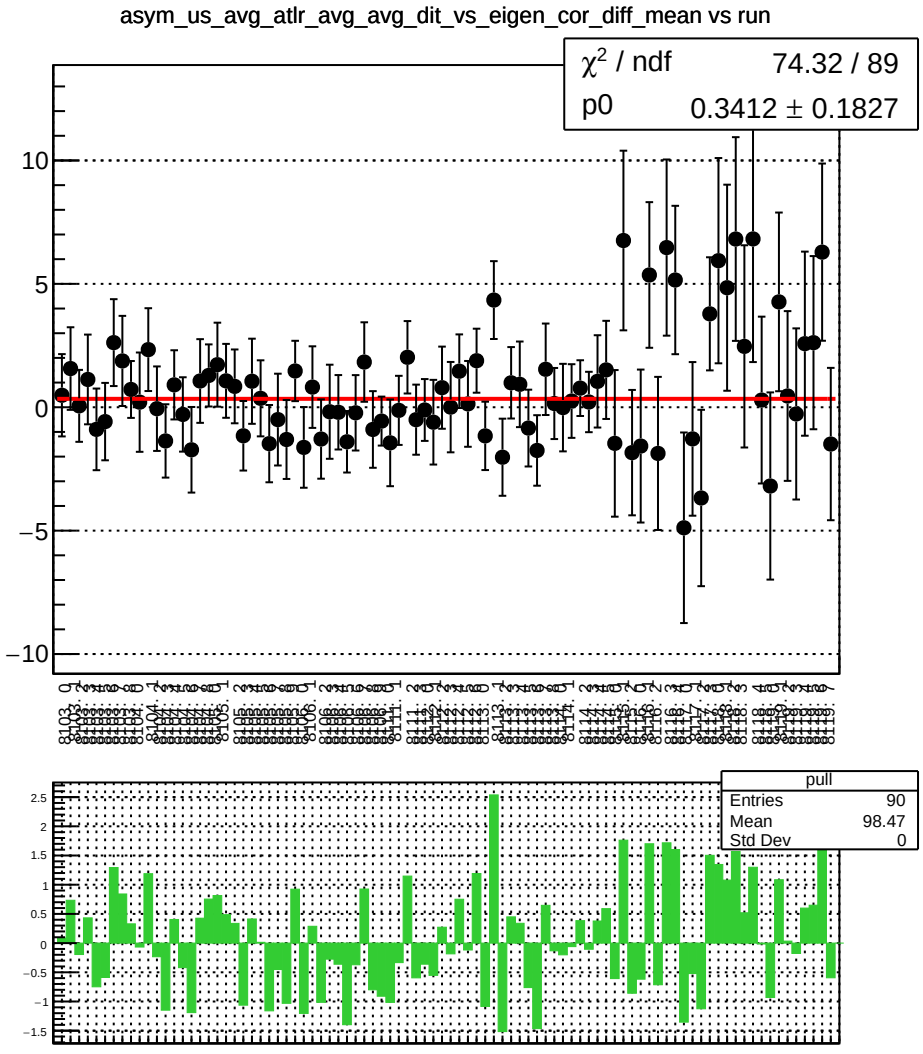

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.87 / 89
p0 −2.947e−12 ± 9.016e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean 139.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.02167
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

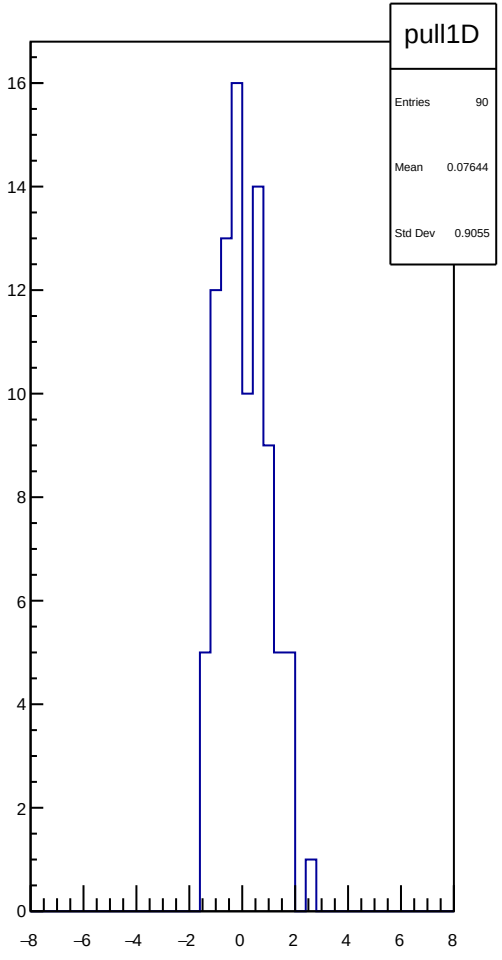

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.228e+05 / 89
p0 6.168e−10 ± 6.375e−13
1.2
1
0.8
0.6
0.4
0.2
0

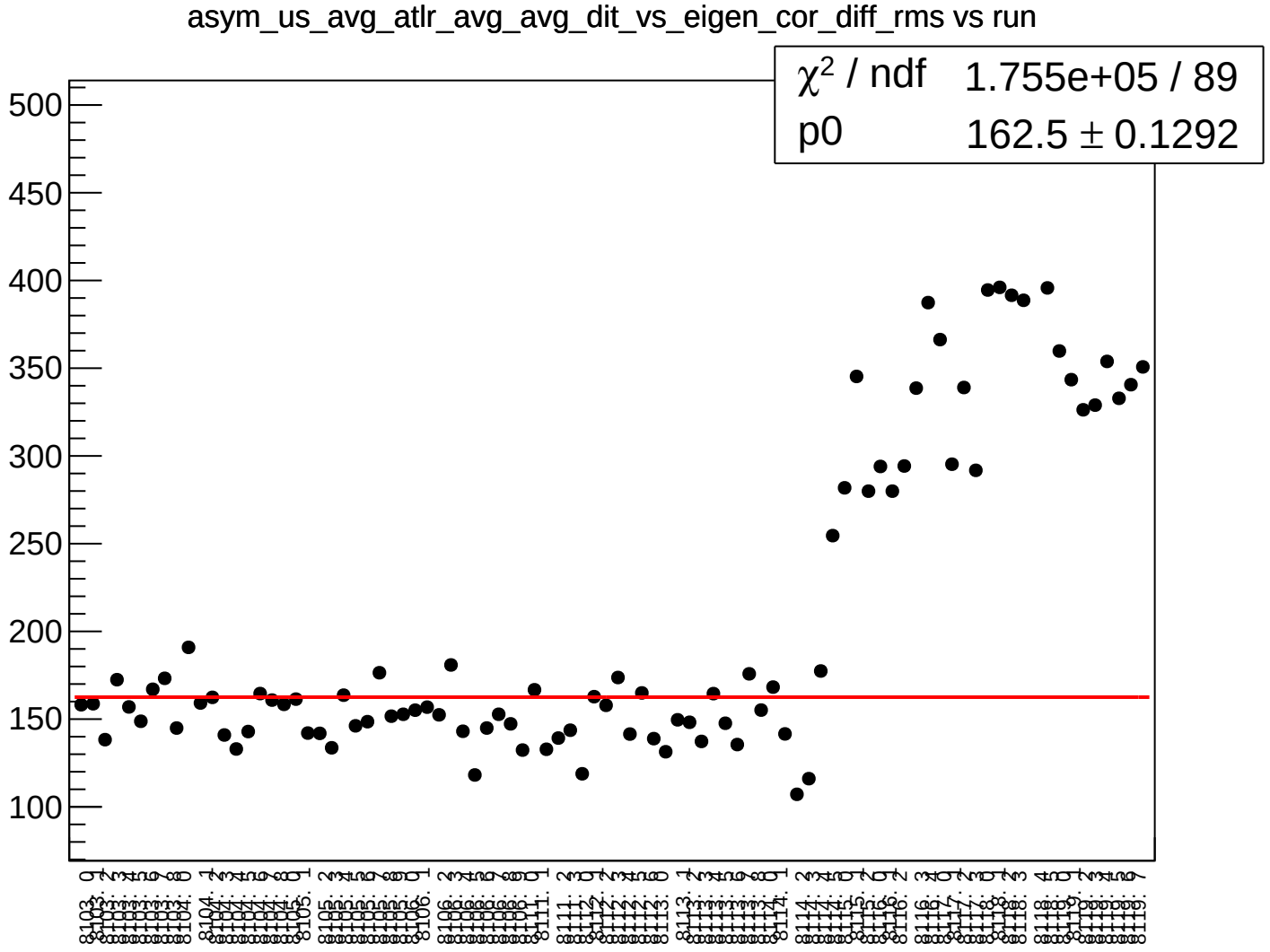

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.32 / 89
p0 0.3412 ± 0.1827
pull
Entries 90
Mean 98.47
Std Dev 0

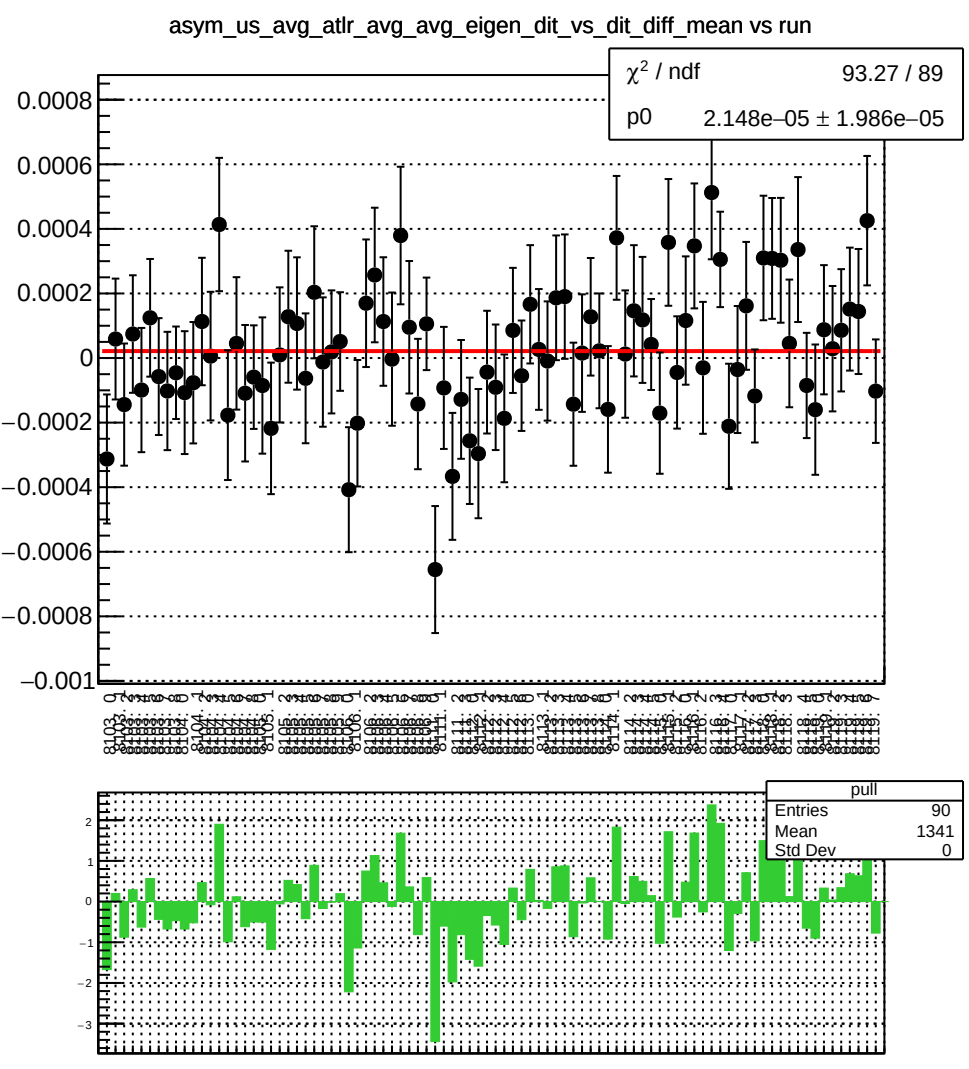

pull1D
Entries 90
Mean 0.07644
Std Dev 0.9055

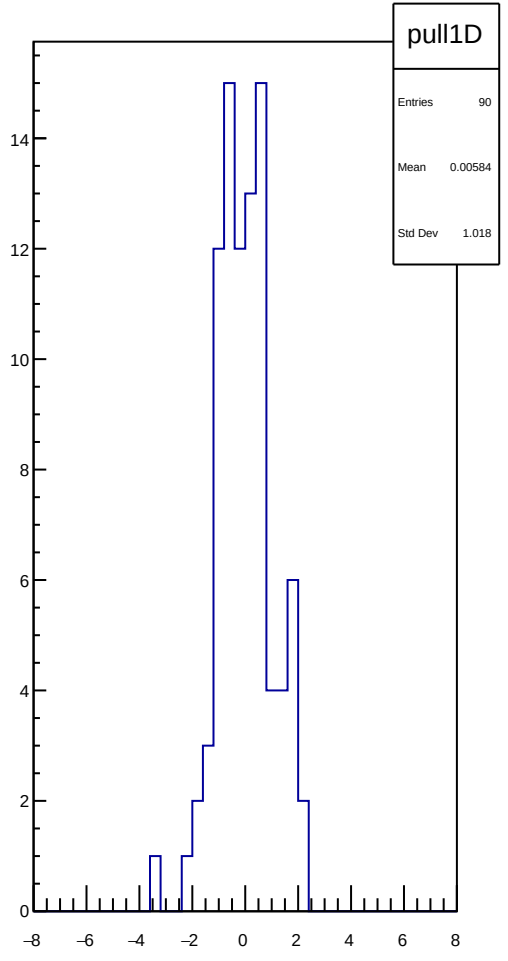

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.755e+05 / 89
p0 162.5 ± 0.1292
500
450
400
350
300
250
200
150
100

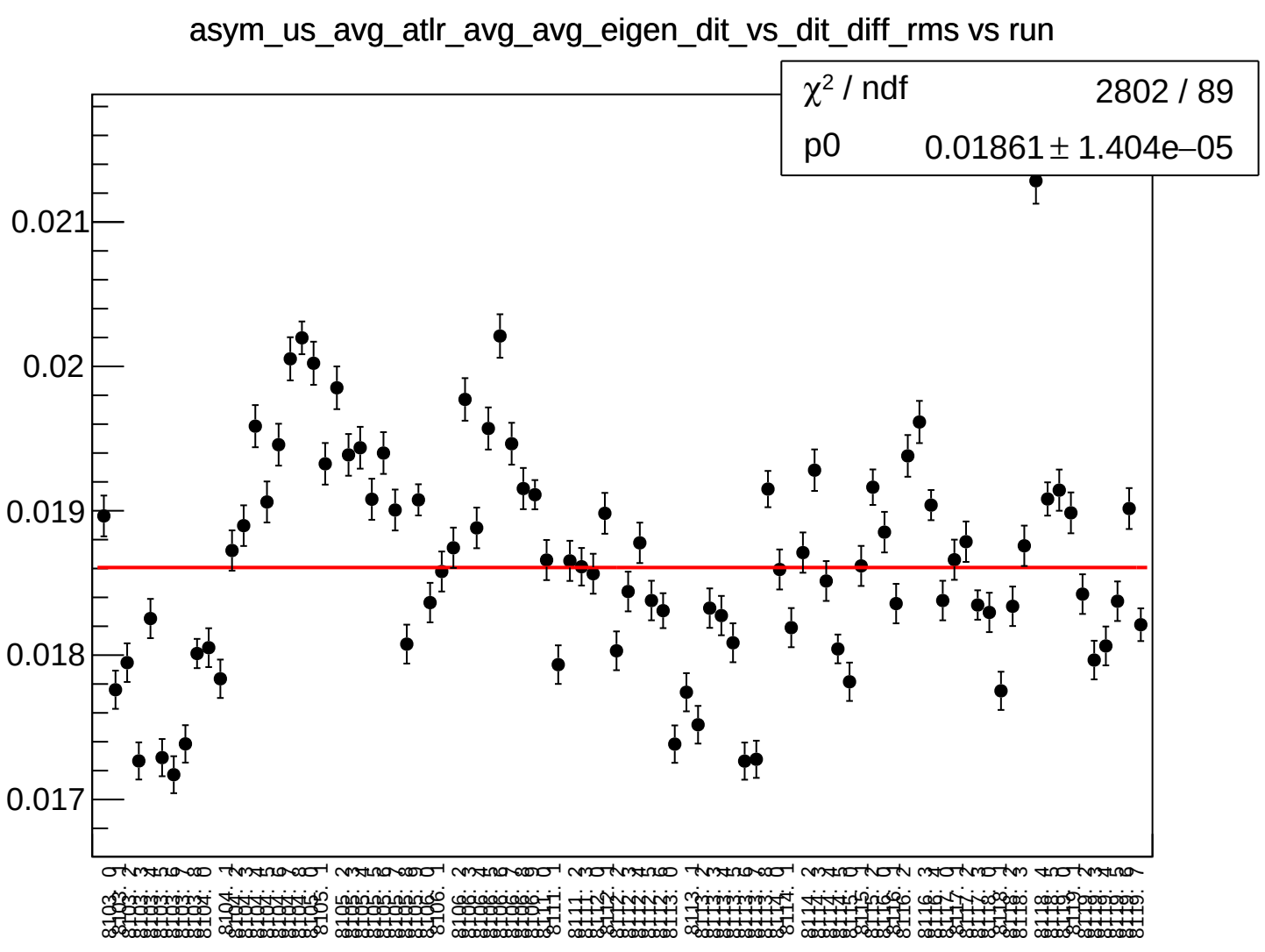

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.32 / 89
p0 0.3412 ± 0.1827
pull
Entries 90
Mean 98.47
Std Dev 0

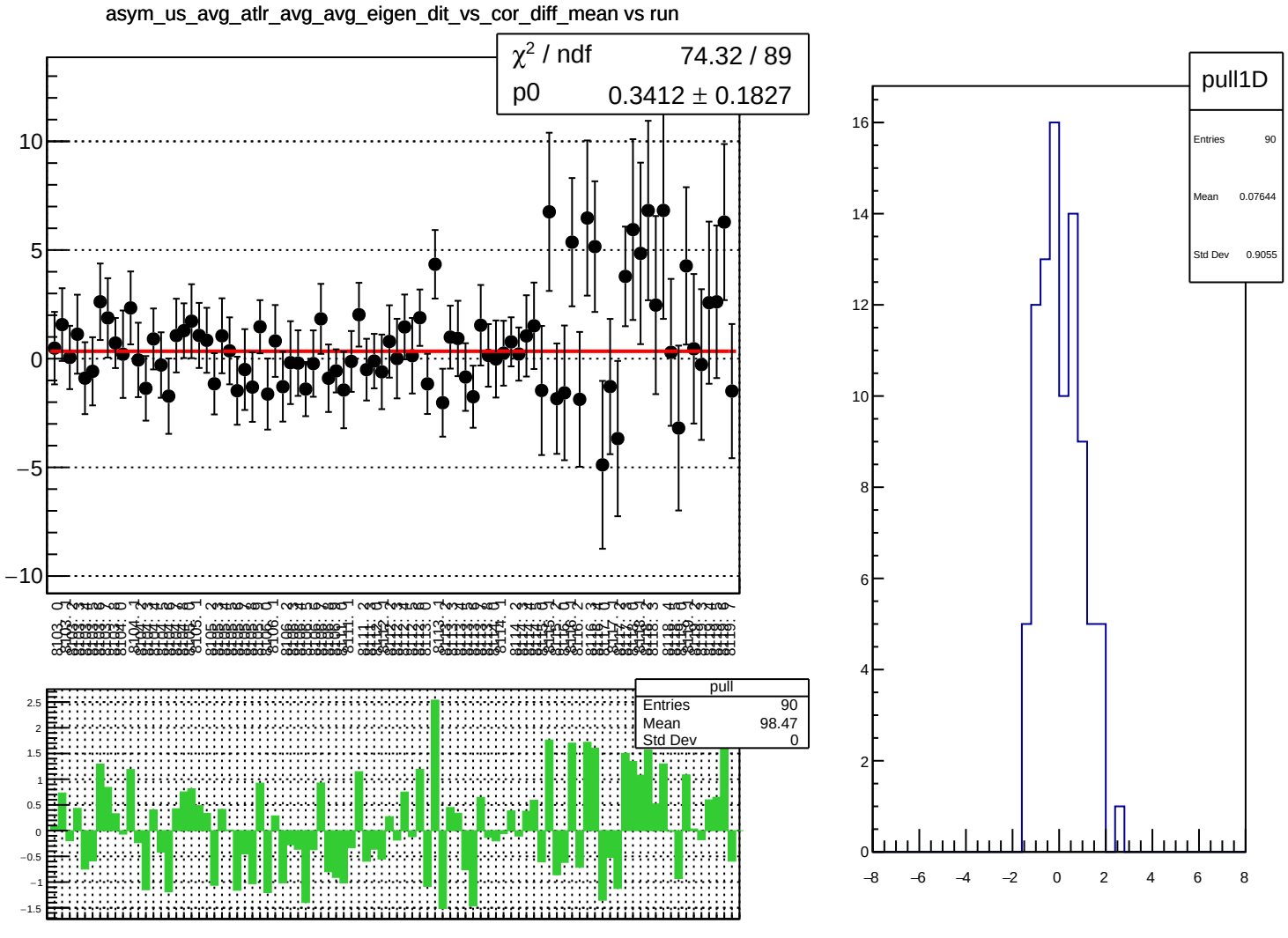

pull1D
Entries 90
Mean 0.07644
Std Dev 0.9055

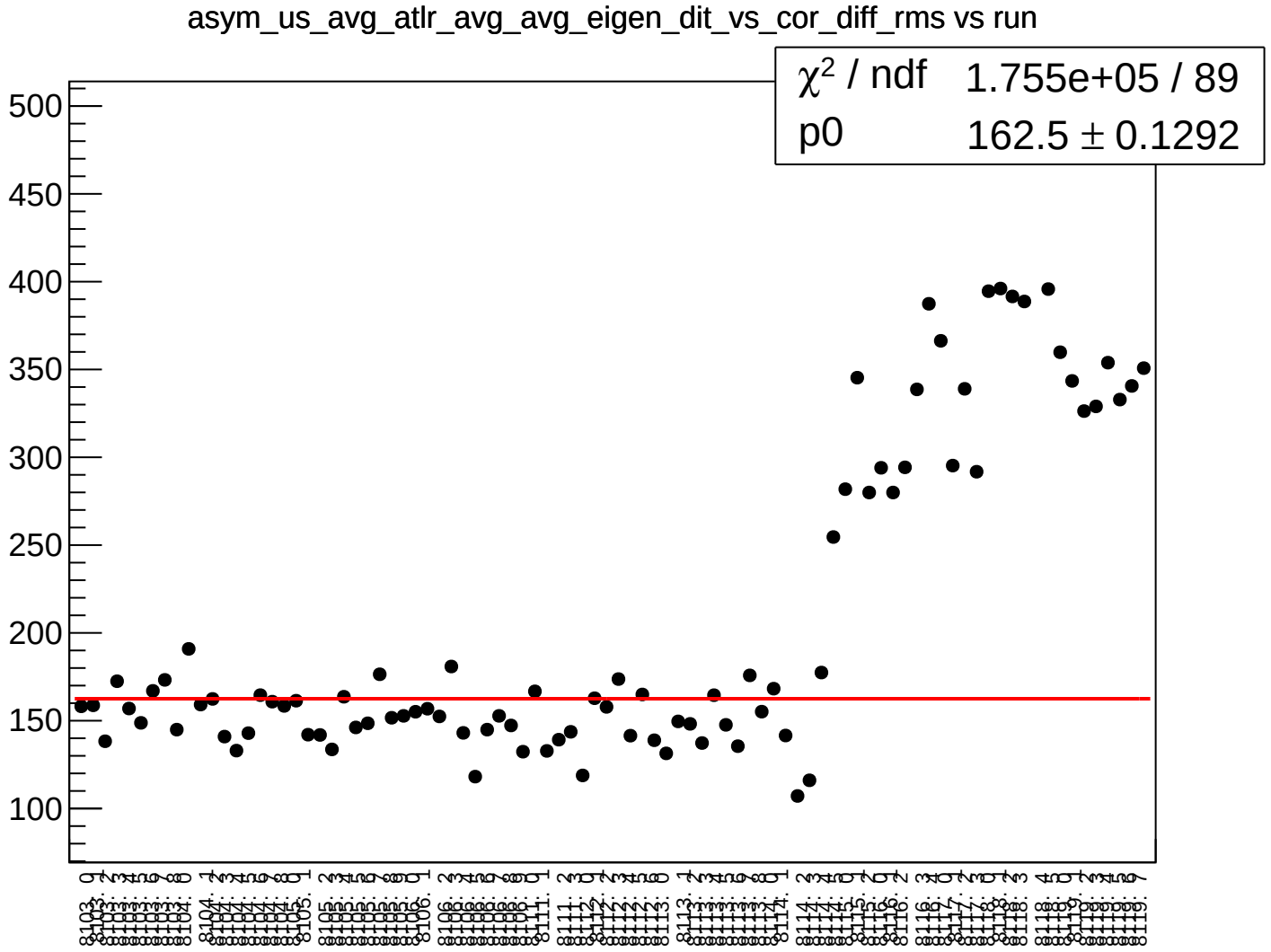

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.755e+05 / 89
p0 162.5 ± 0.1292
500
450
400
350
300
250
200
150
100

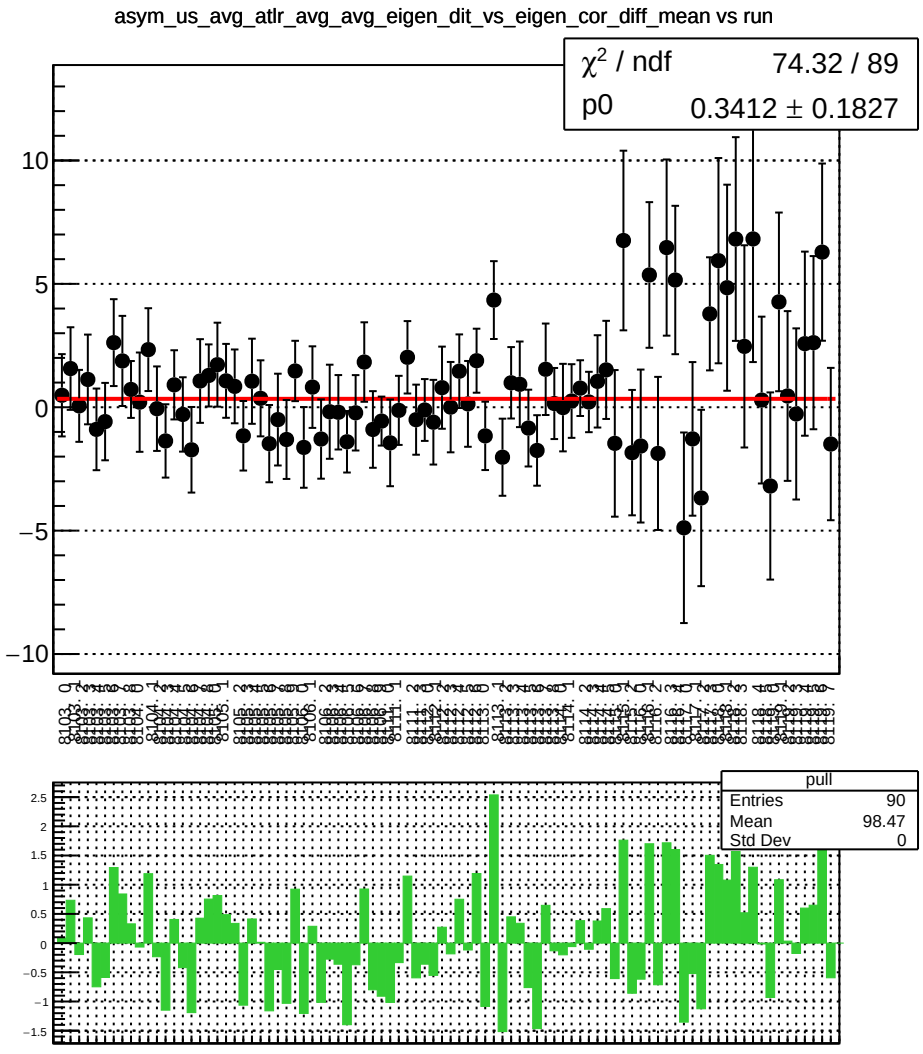

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 93.27 / 89
p0 2.148e−05 ± 1.986e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 90
Mean 1341
Std Dev 0
2
1
0
−1
−2
−3

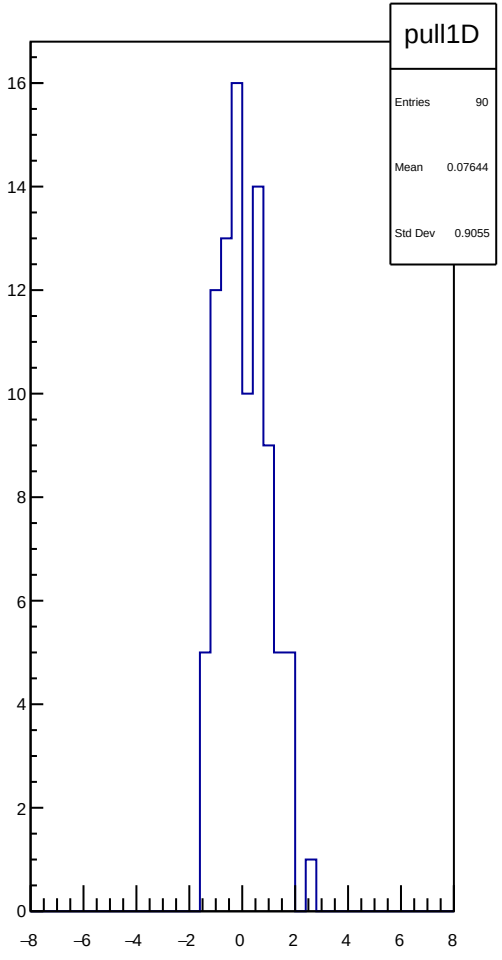

pull1D
Entries 90
Mean 0.00584
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

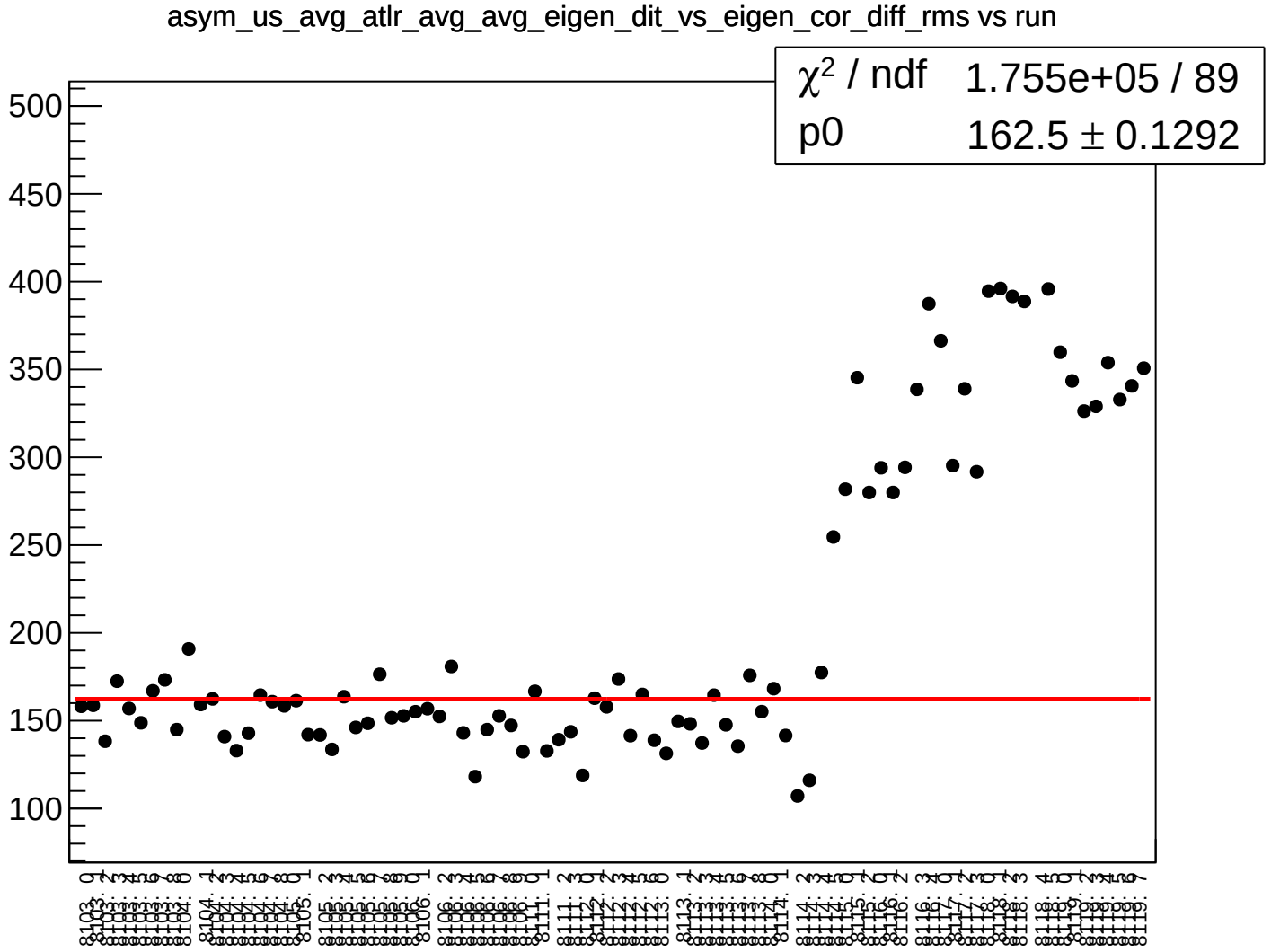

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2802 / 89
p0 0.01861 ± 1.404e−05
0.021
0.02
0.019
0.018
0.017

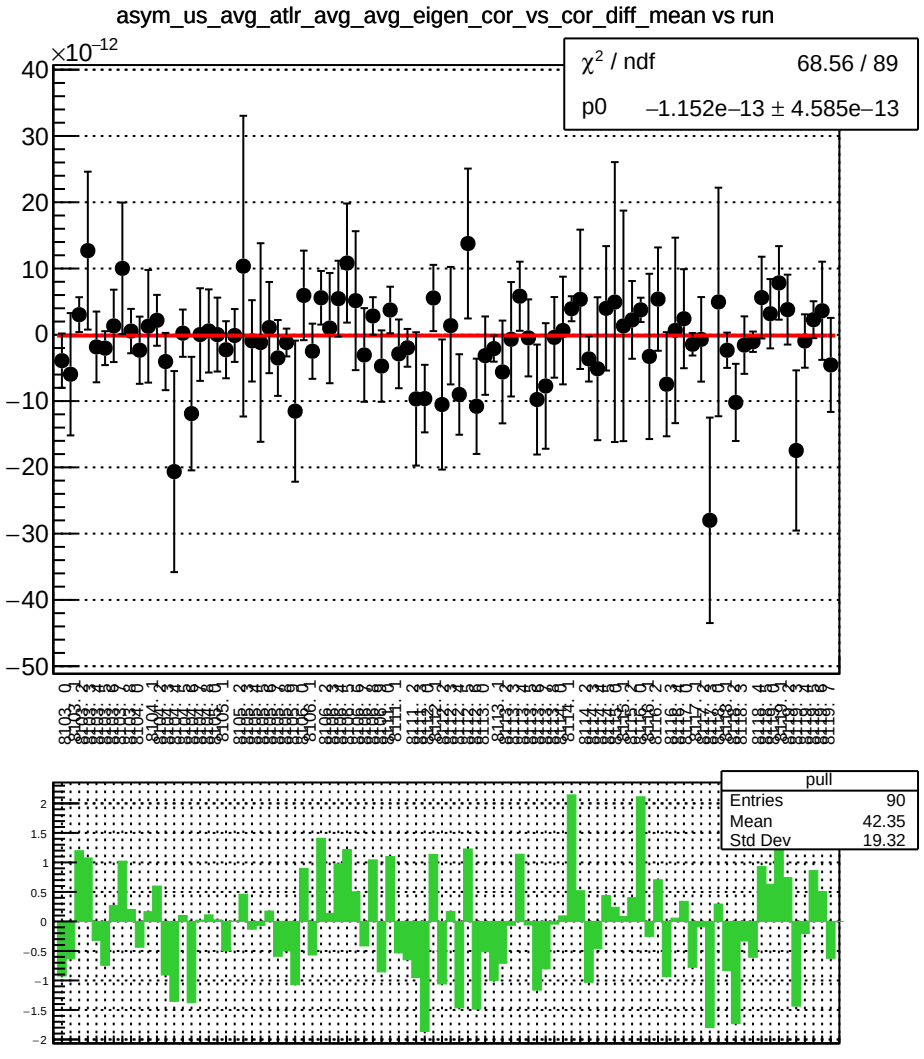

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 74.32 / 89
p0 0.3412 ± 0.1827
pull
Entries 90
Mean 98.47
Std Dev 0
pull1D
Entries 90
Mean 0.07644
Std Dev 0.9055

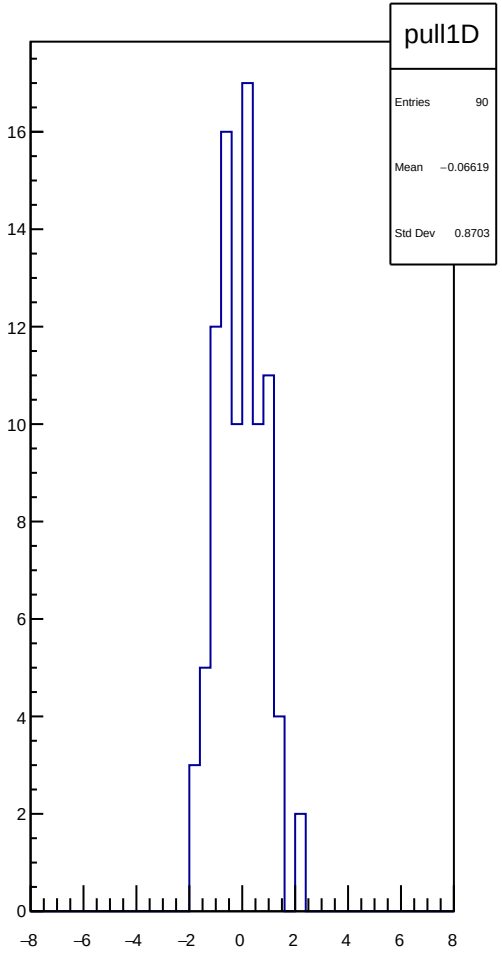

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.755e+05 / 89
p0 162.5 ± 0.1292
500
450
400
350
300
250
200
150
100

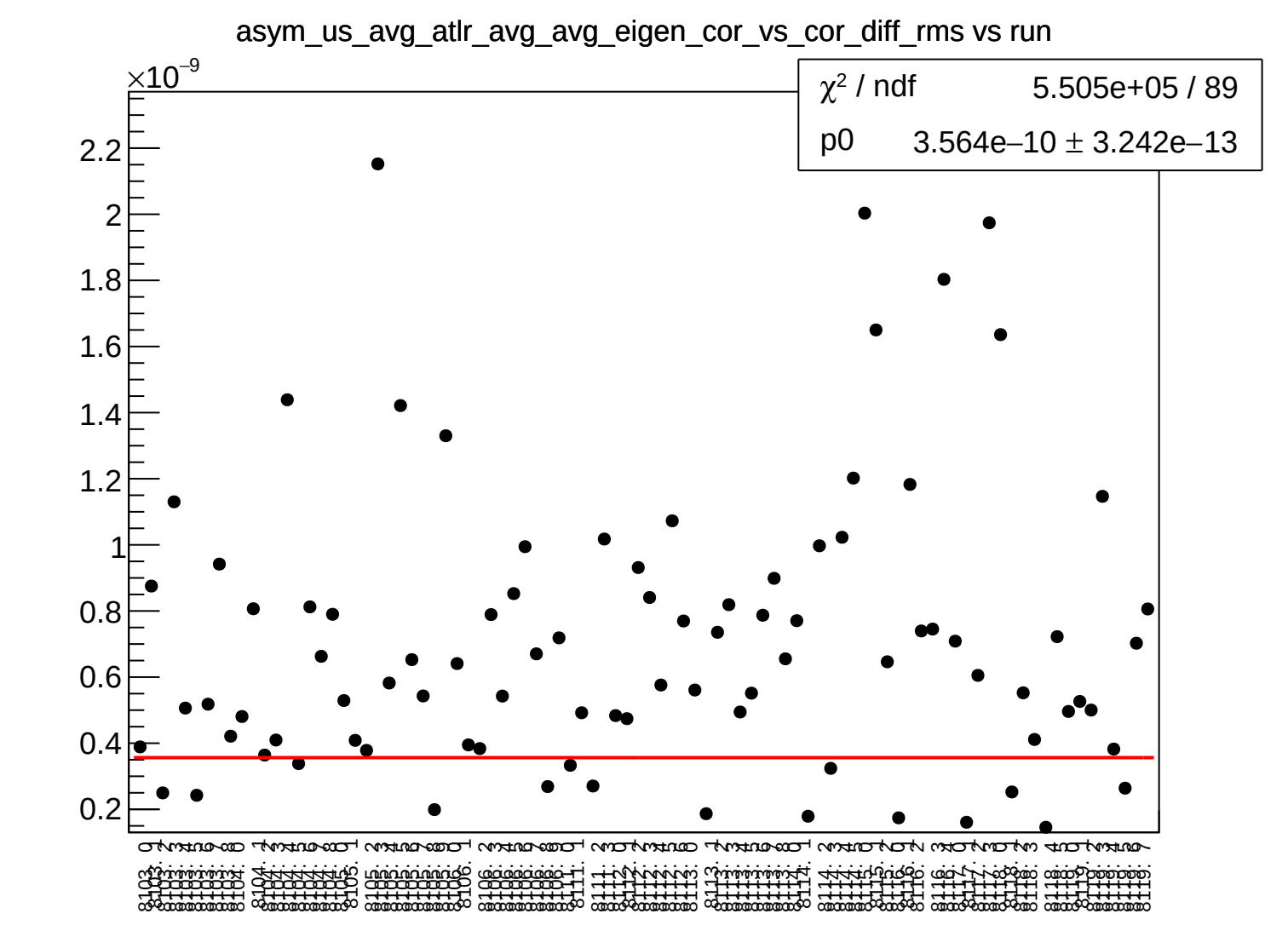

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.32 / 89
p0 0.3412 ± 0.1827
pull
Entries 90
Mean 98.47
Std Dev 0

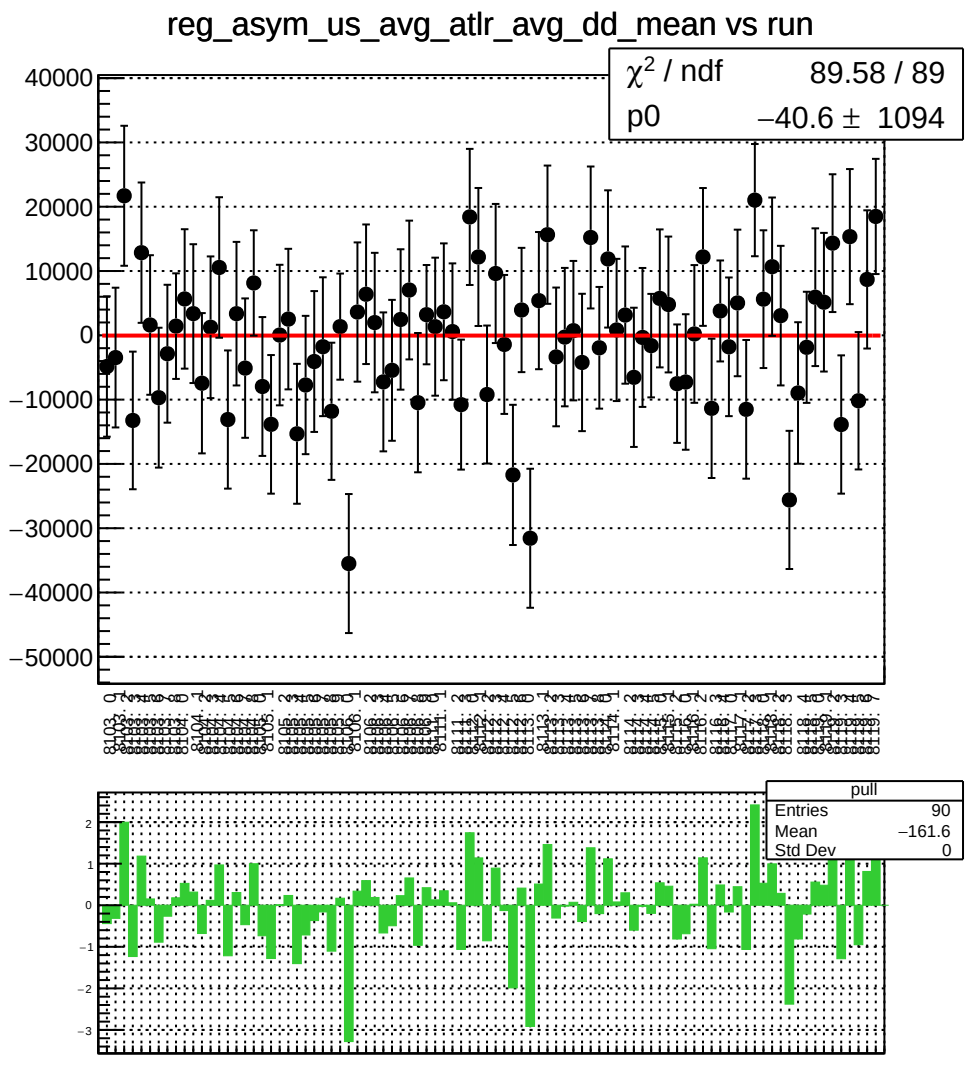

pull1D
Entries 90
Mean 0.07644
Std Dev 0.9055

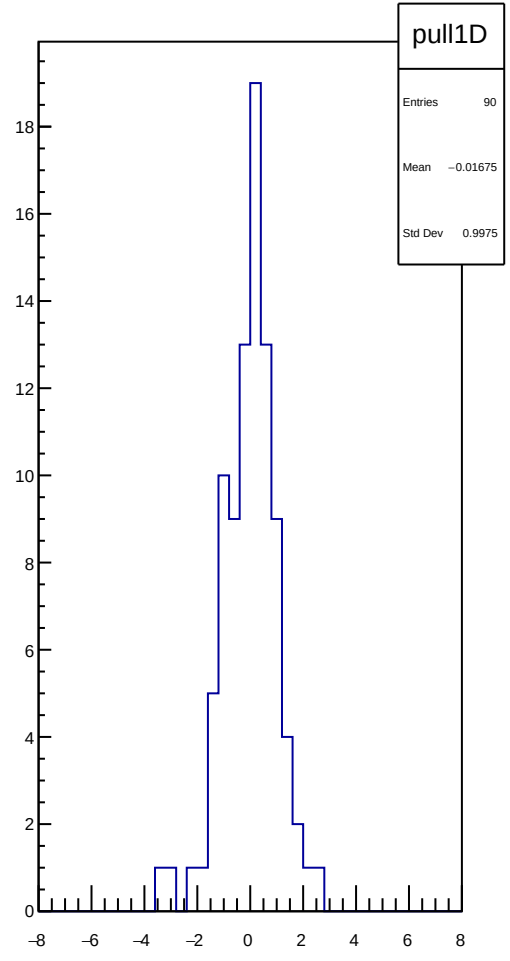

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.755e+05 / 89
p0 162.5 ± 0.1292
500
450
400
350
300
250
200
150
100

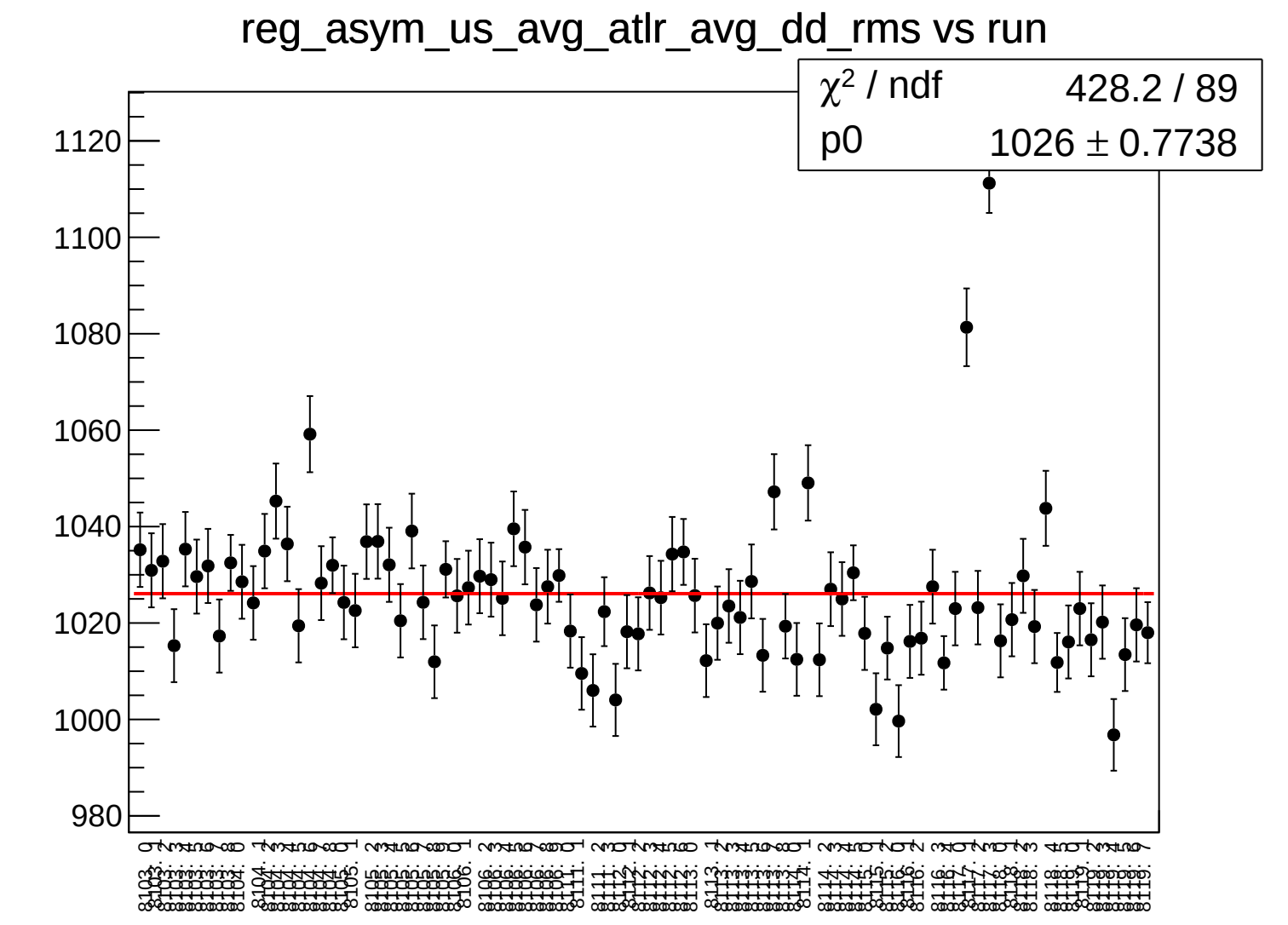

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.56 / 89
p0 −1.152e−13 ± 4.585e−13
pull
Entries 90
Mean 42.35
Std Dev 19.32

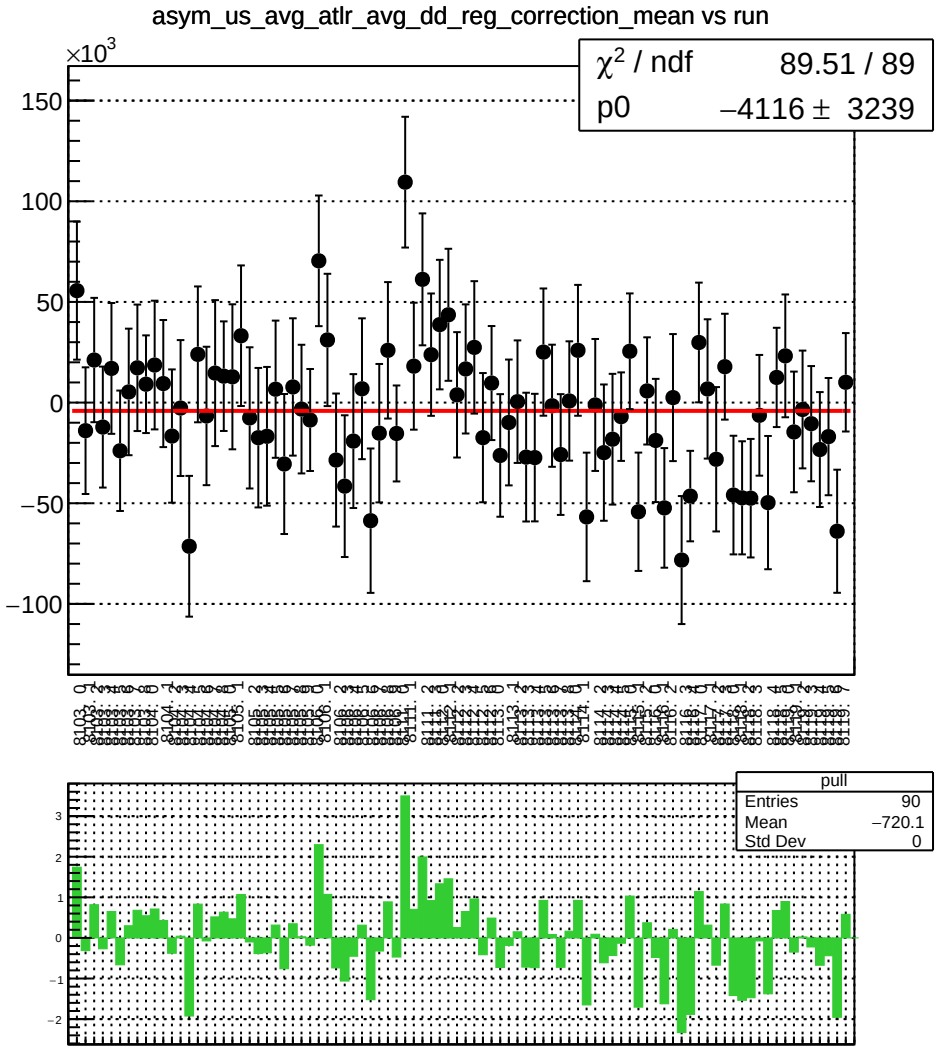

pull1D
Entries 90
Mean −0.06619
Std Dev 0.8703

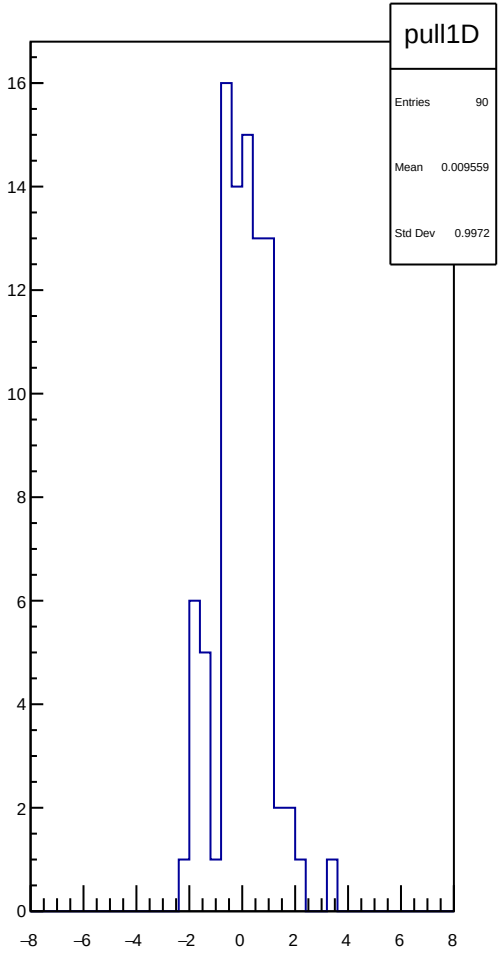

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.505e+05 / 89
p0 3.564e−10 ± 3.242e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

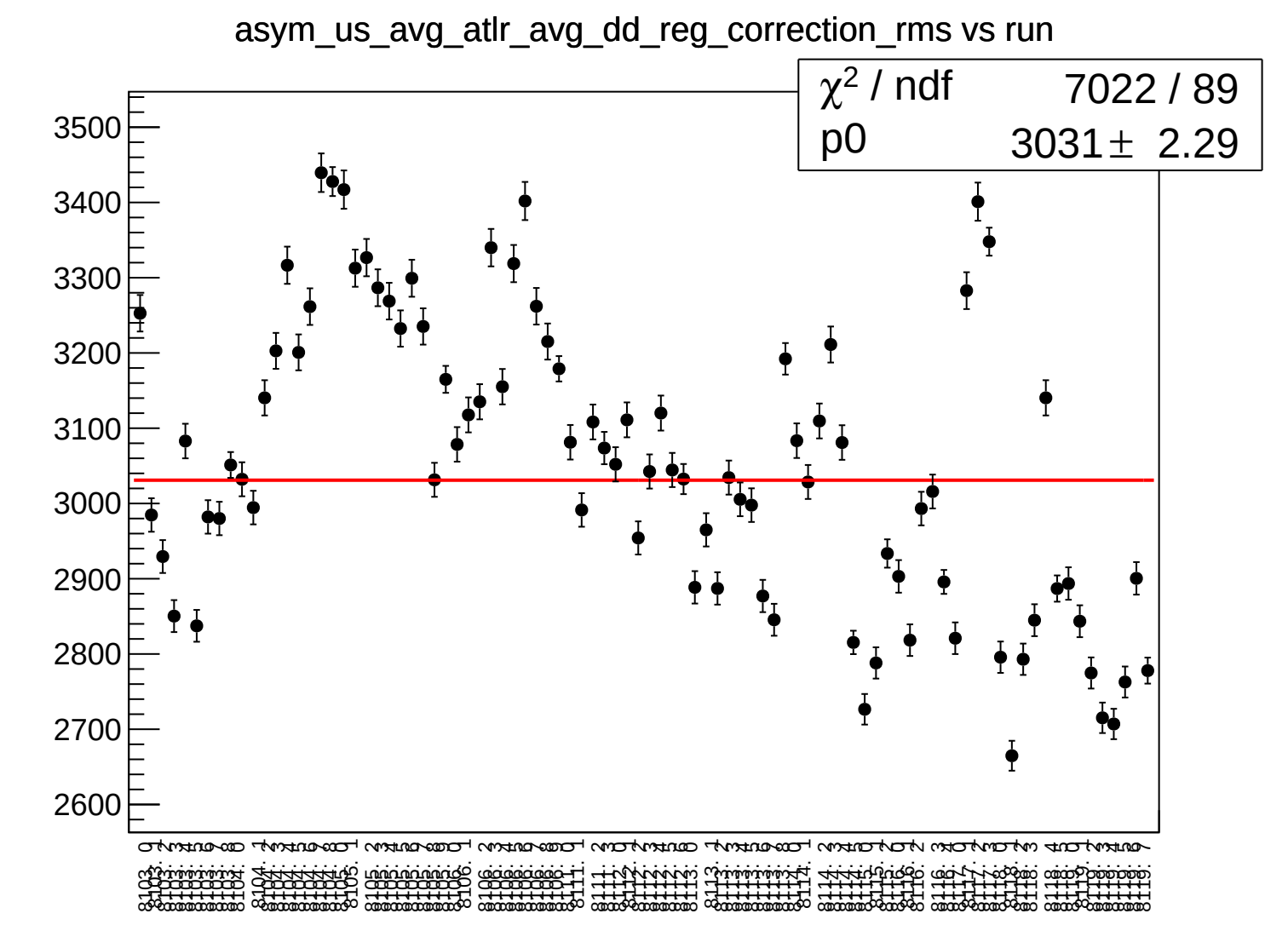

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 89.58 / 89
p0 −40.6 ± 1094
pull
Entries 90
Mean −161.6
Std Dev 0

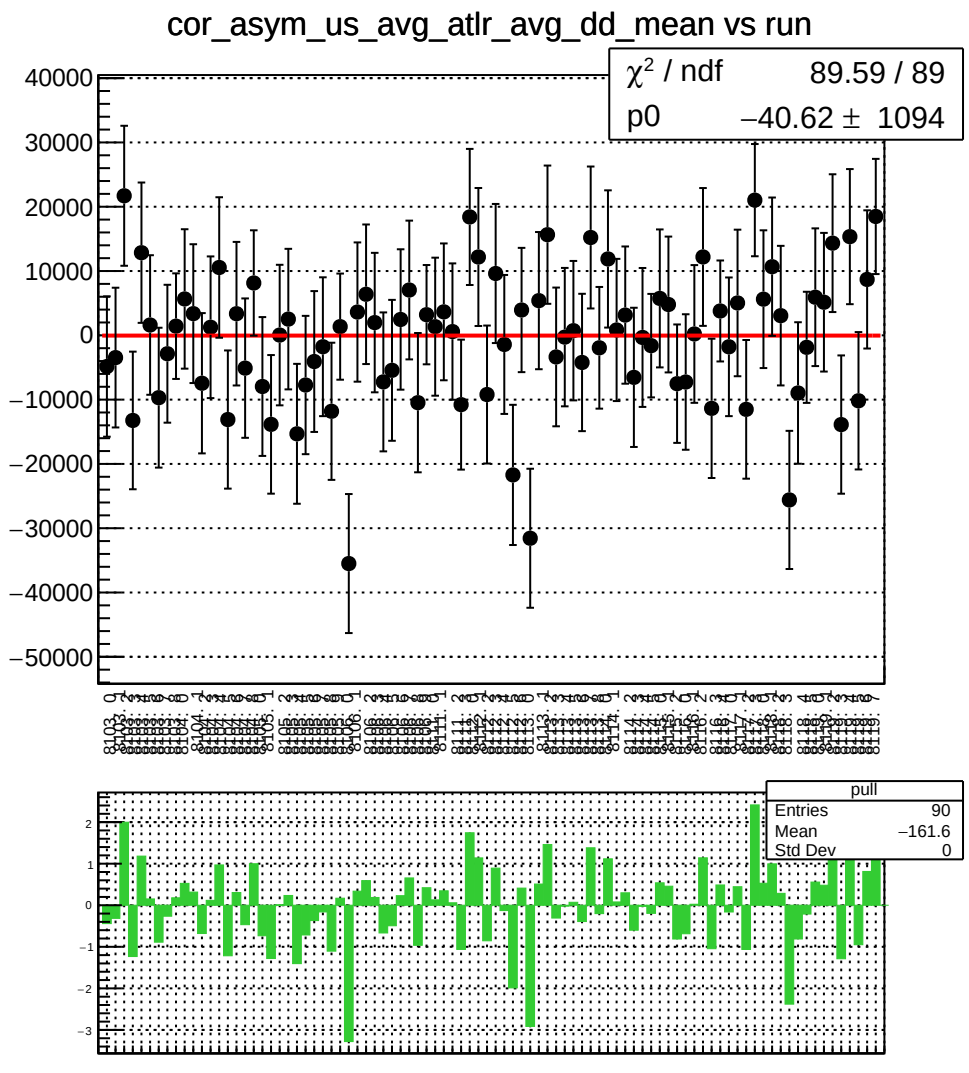

pull1D
Entries 90
Mean −0.01675
Std Dev 0.9975

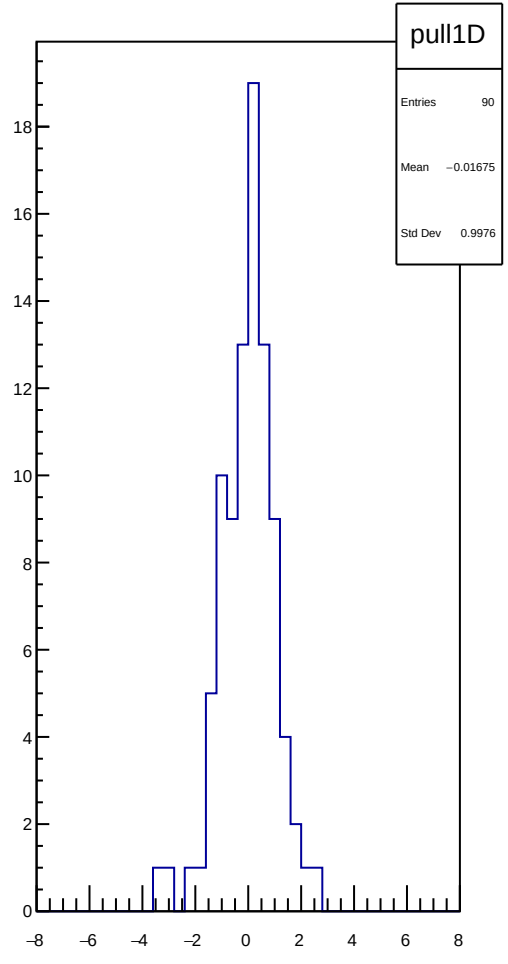

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 428.2 / 89
p0 1026 ± 0.7738
1120
1100
1080
1060
1040
1020
1000
980

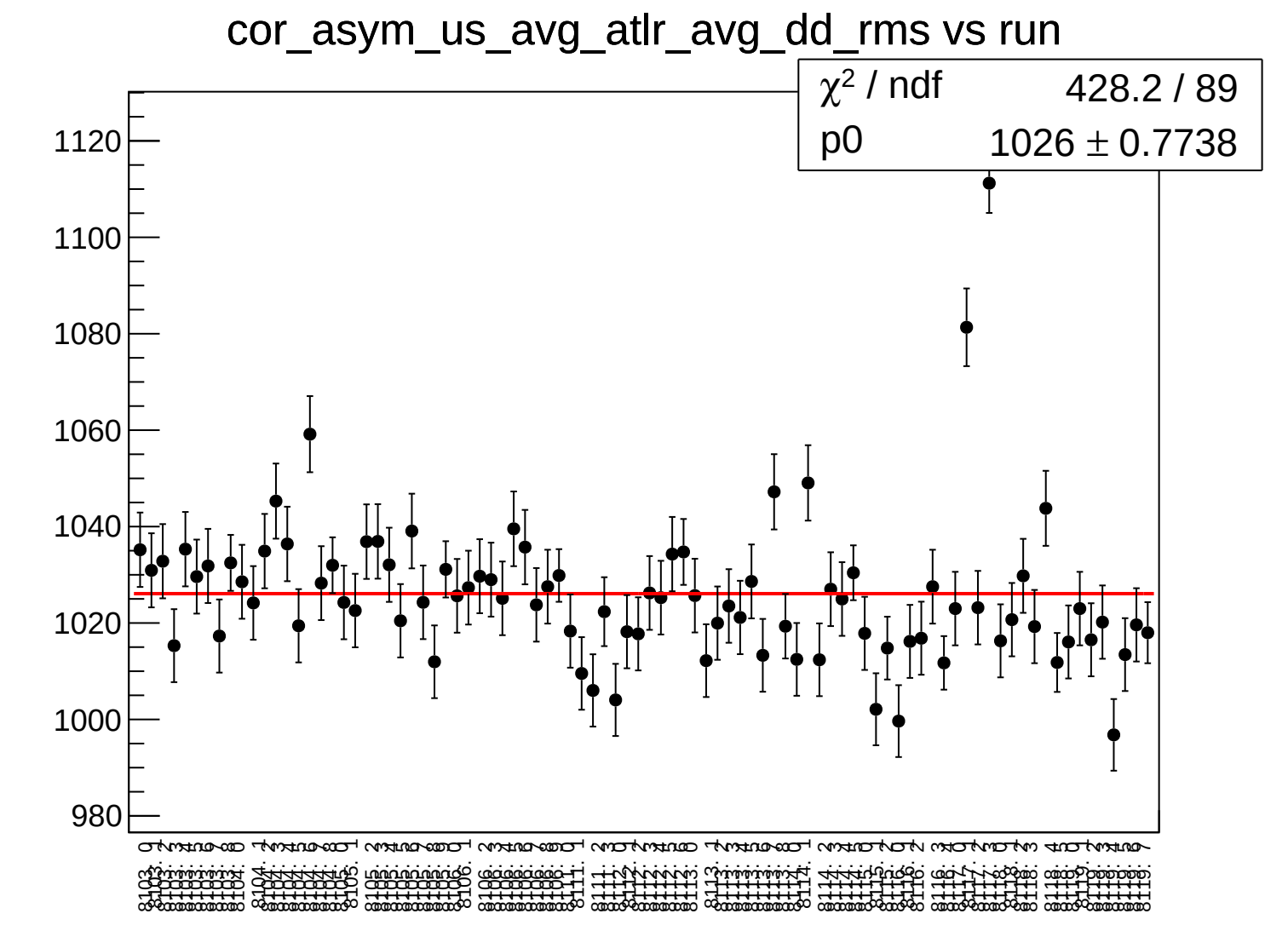

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 89.51 / 89
p0 −4116 ± 3239
150
100
50
0
−50
−100
pull
Entries 90
Mean −720.1
Std Dev 0
3
2
1
0
−1
−2

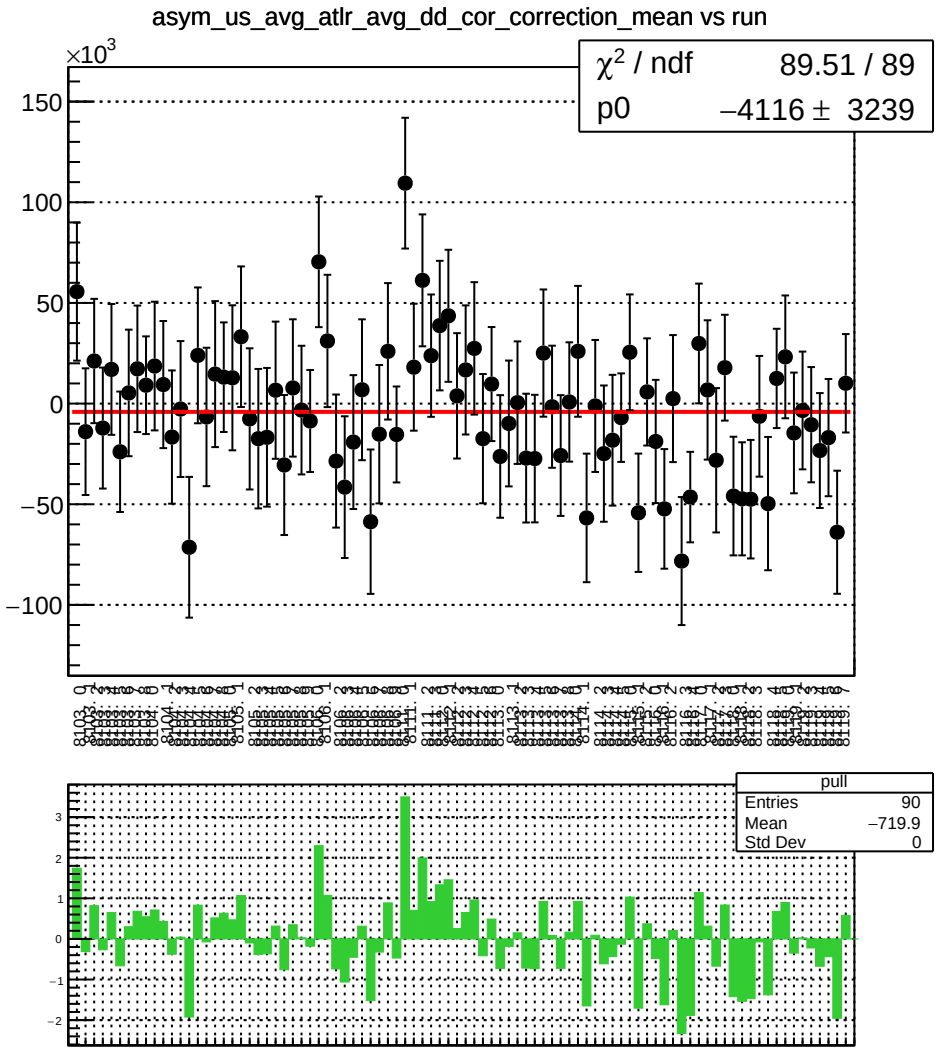

pull1D
Entries 90
Mean 0.009559
Std Dev 0.9972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

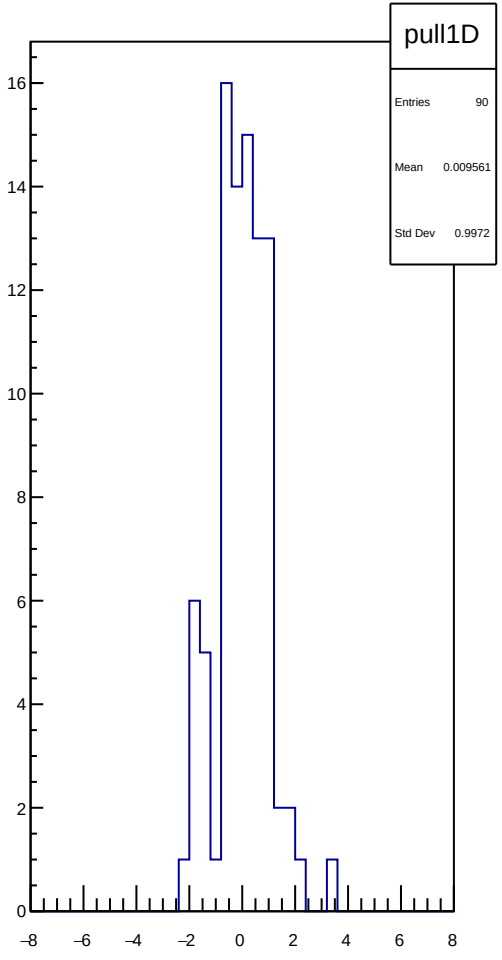

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 7022 / 89
p0 3031 ± 2.29
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600

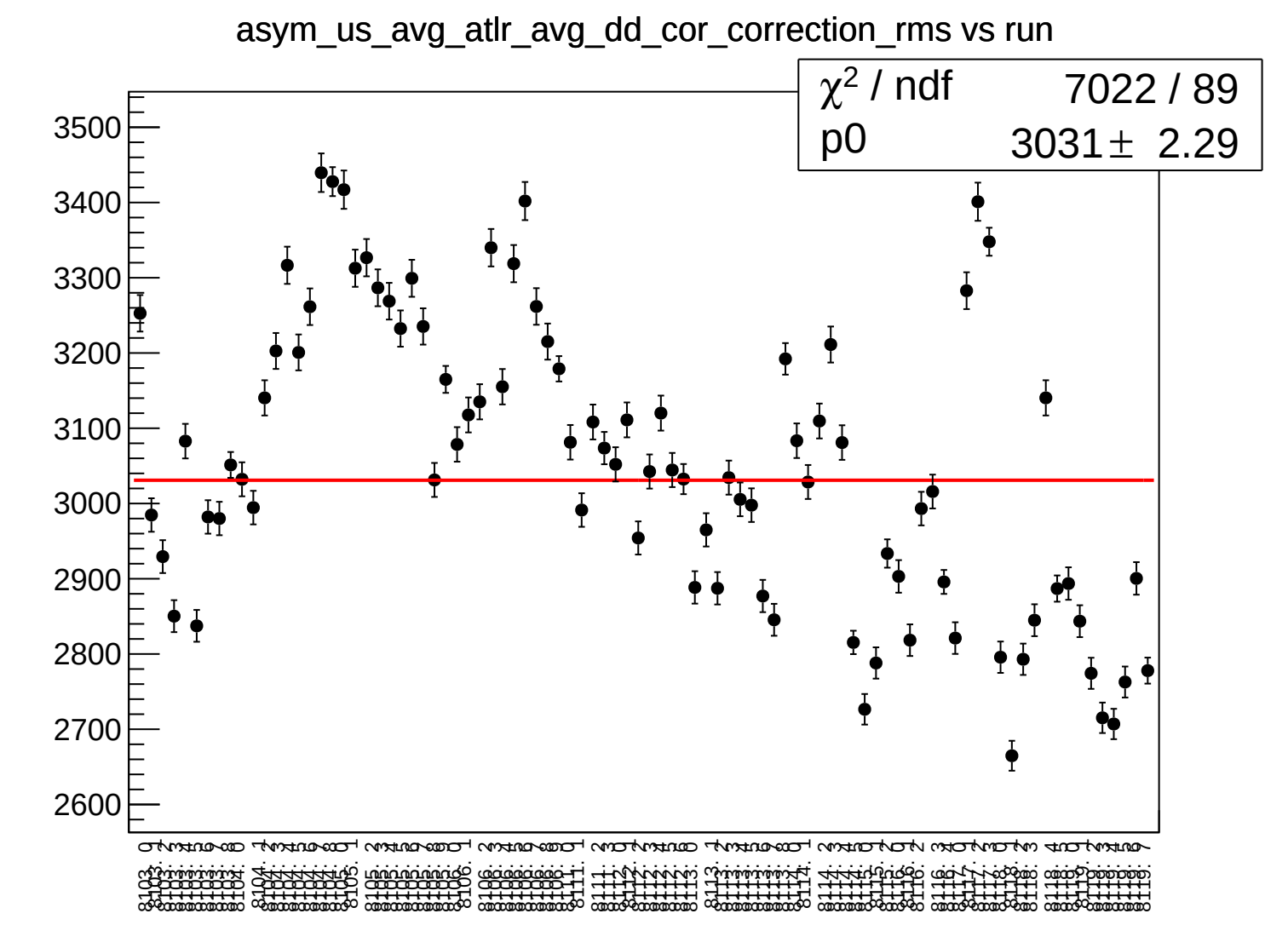

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 89.59 / 89
p0 −40.62 ± 1094
pull
Entries 90
Mean −161.6
Std Dev 0

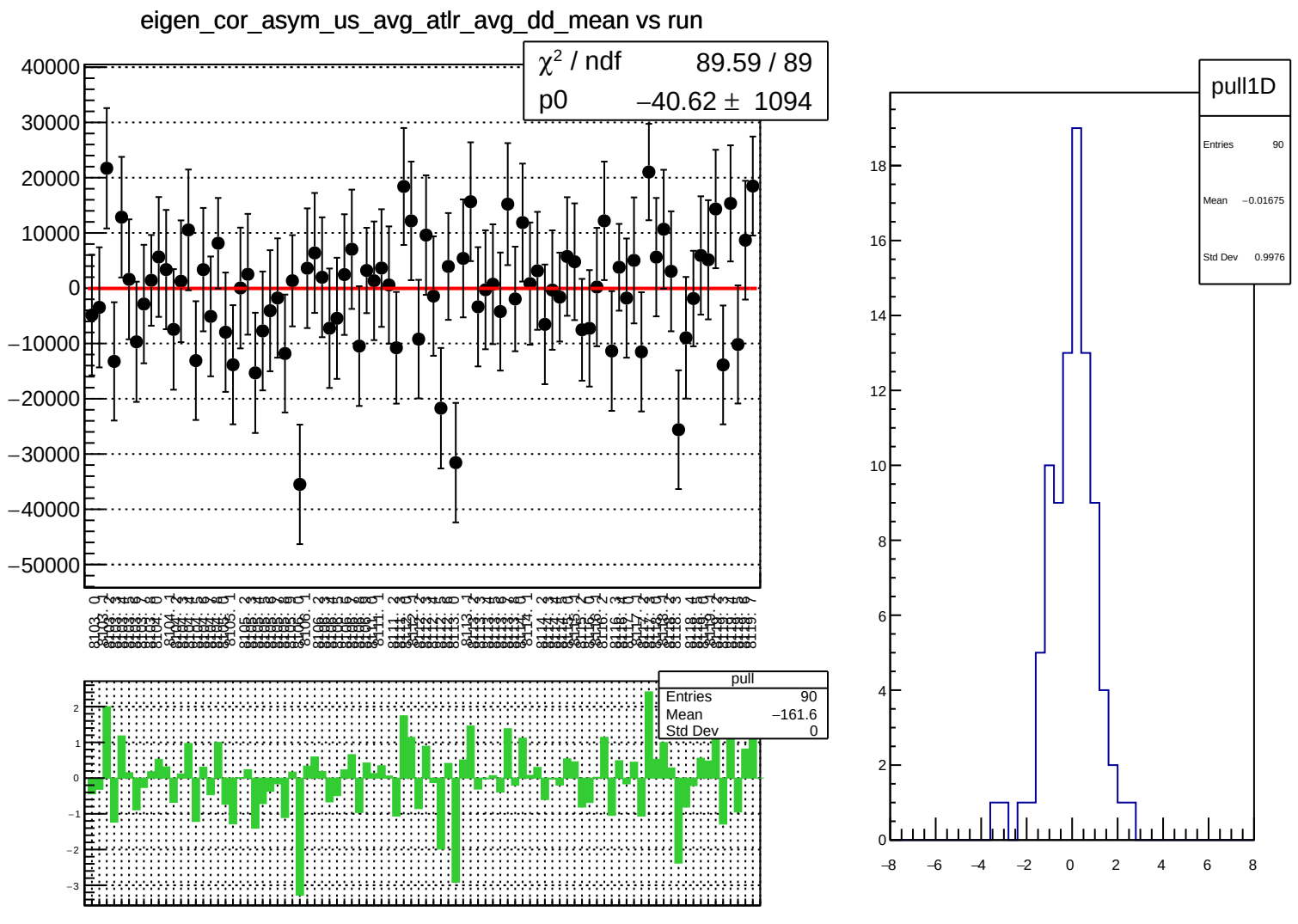

pull1D
Entries 90
Mean −0.01675
Std Dev 0.9976

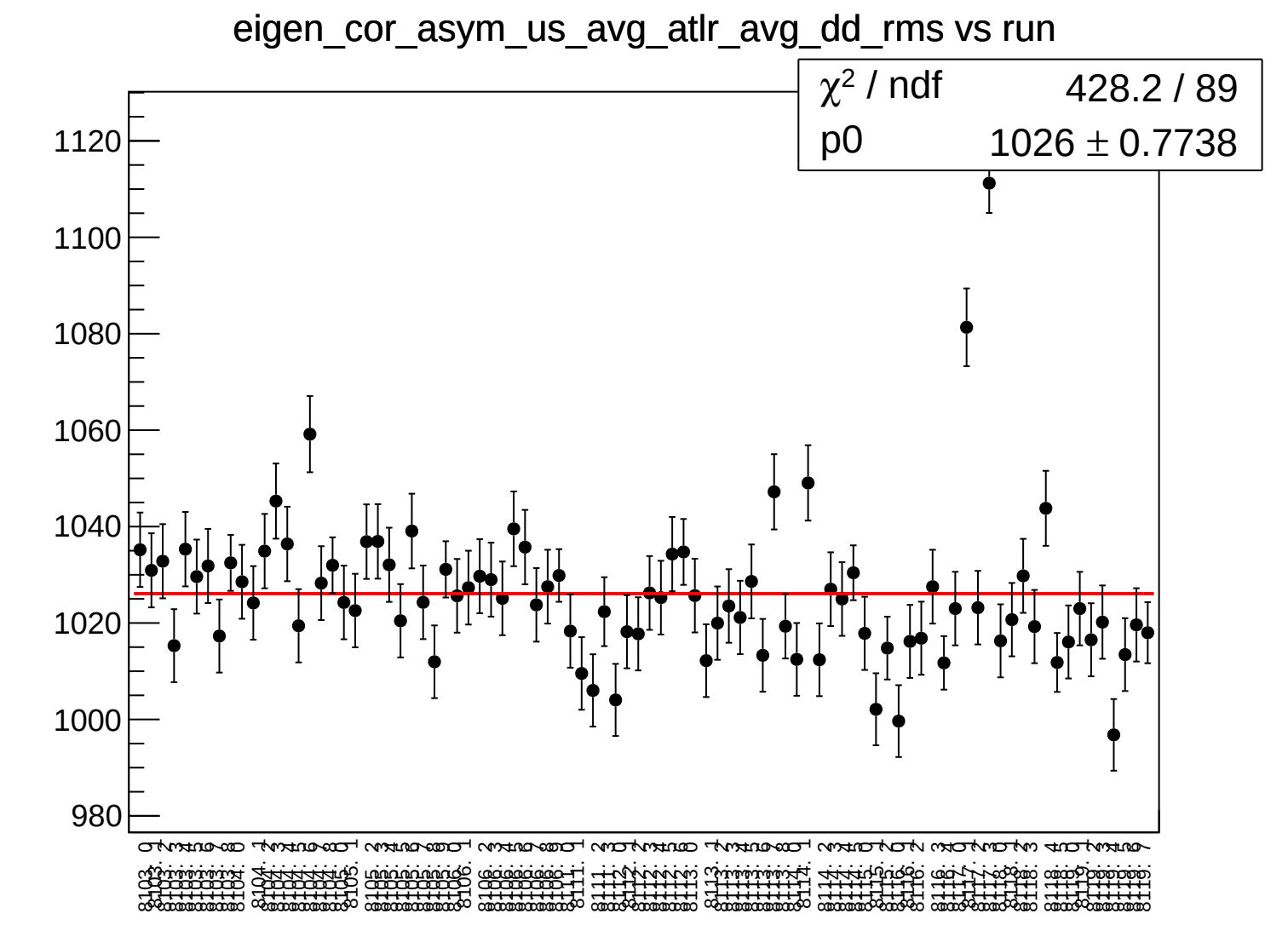

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 428.2 / 89
p0 1026 ± 0.7738
1120
1100
1080
1060
1040
1020
1000
980

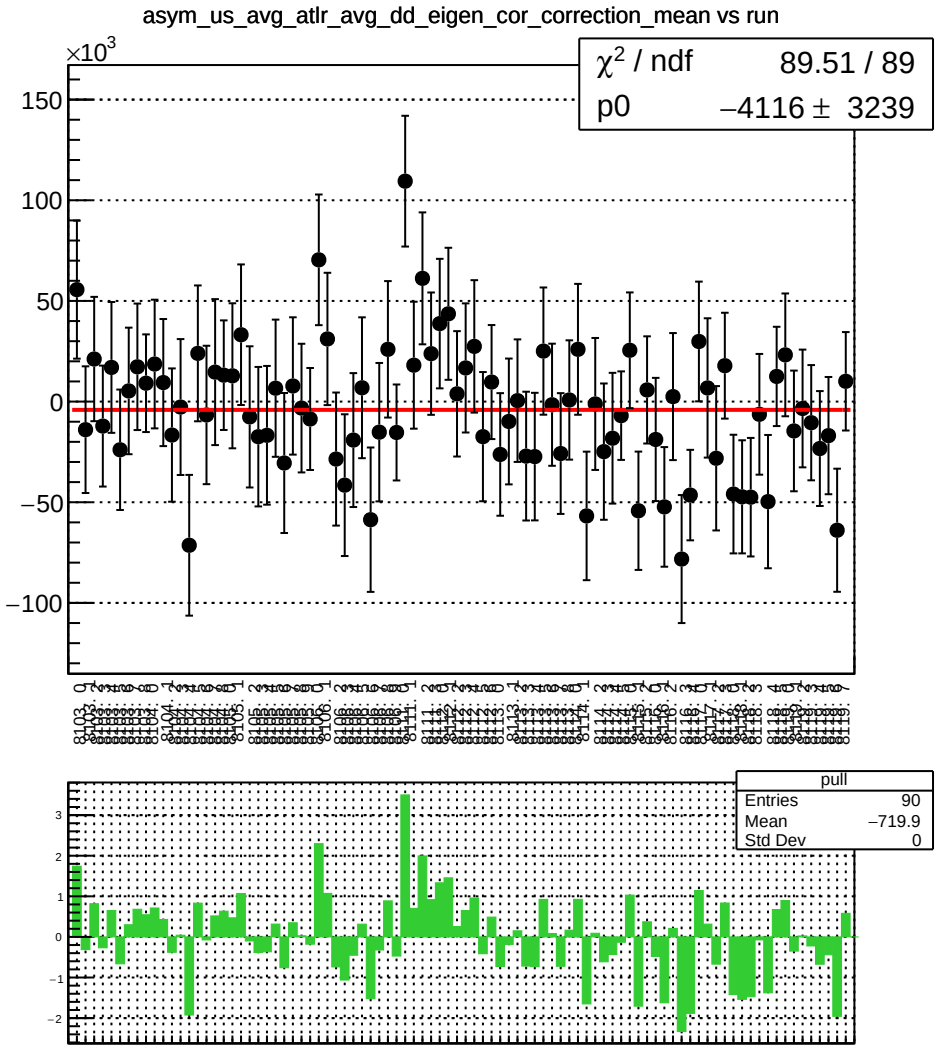

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.51 / 89
p0 −4116 ± 3239
150
100
50
0
−50
−100
pull
Entries 90
Mean −719.9
Std Dev 0
3
2
1
0
−1
−2

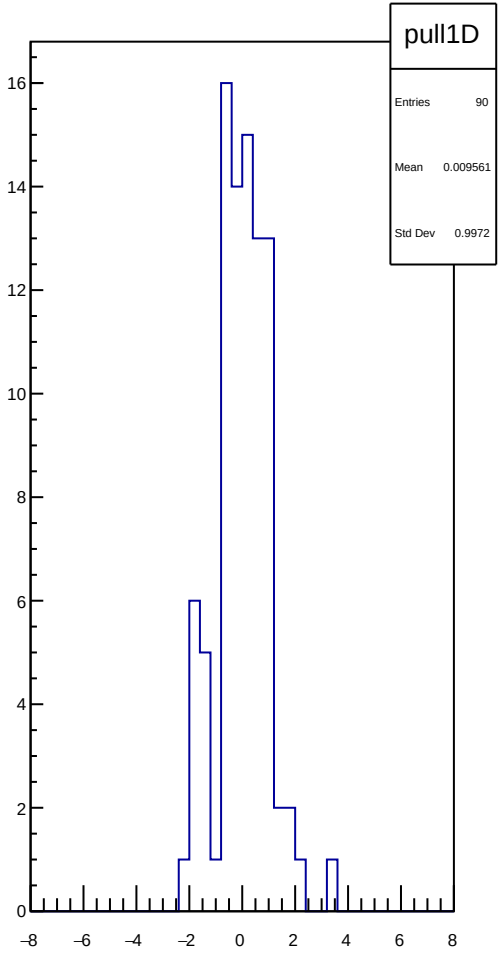

pull1D
Entries 90
Mean 0.009561
Std Dev 0.9972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

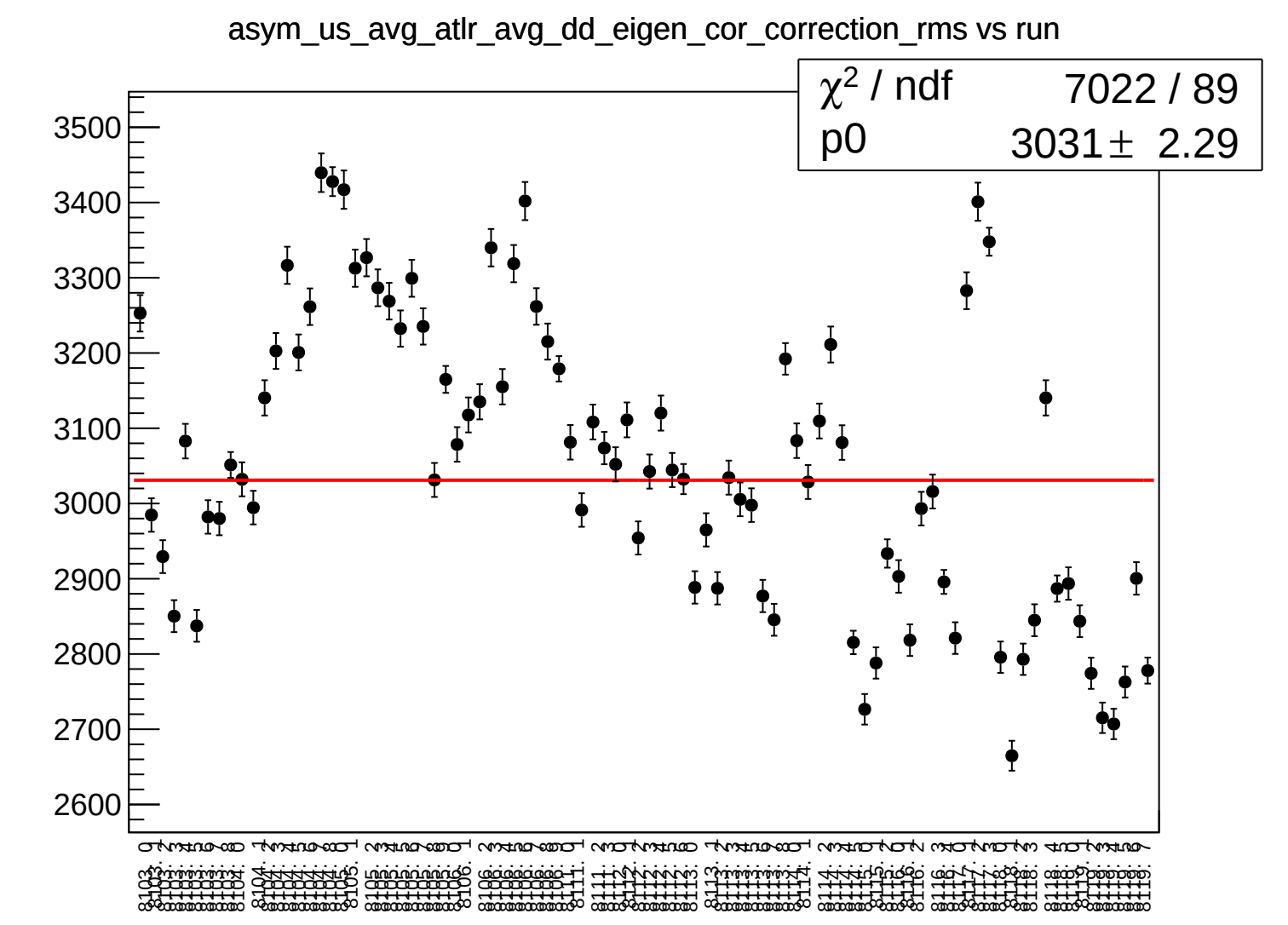

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 7022 / 89
p0 3031 ± 2.29
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600

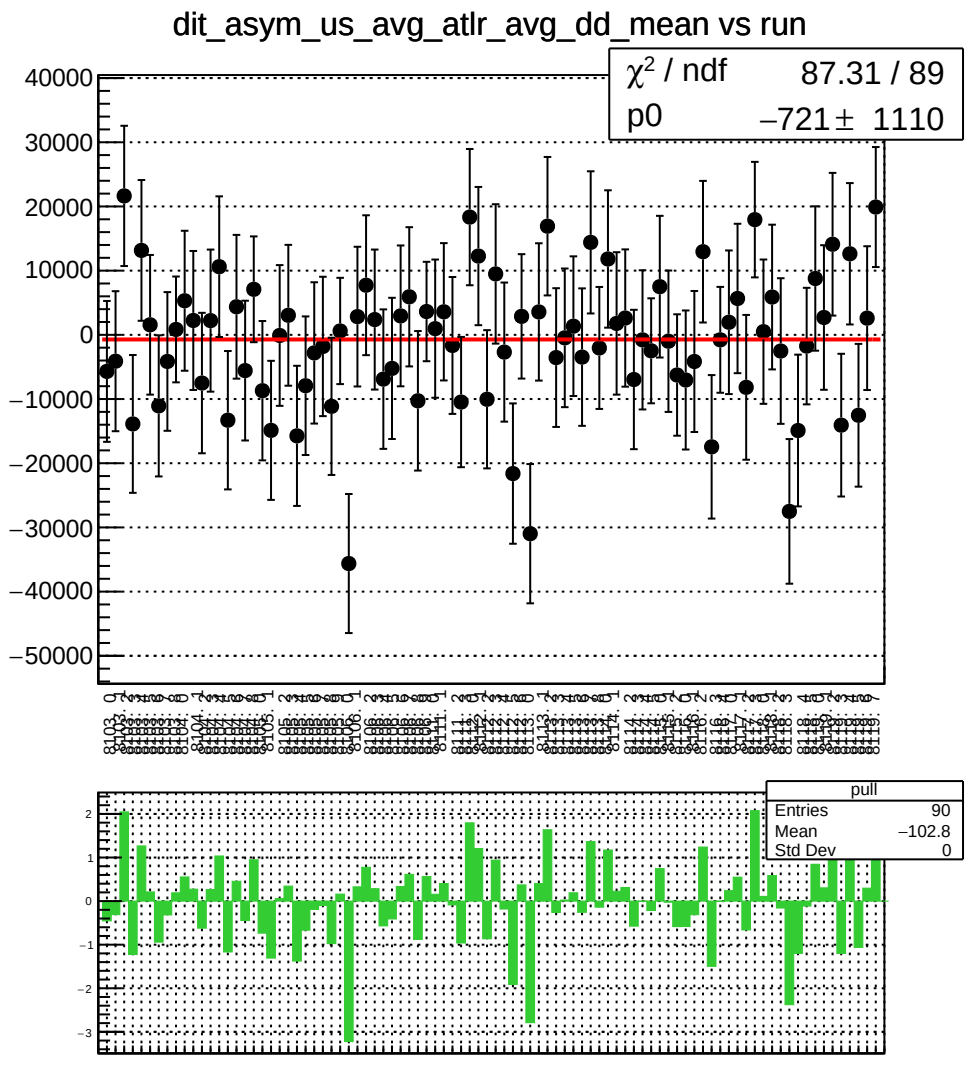

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 89.59 / 89
p0 −40.62 ± 1094
pull
Entries 90
Mean −161.6
Std Dev 0
pull1D
Entries 90
Mean −0.01675
Std Dev 0.9976

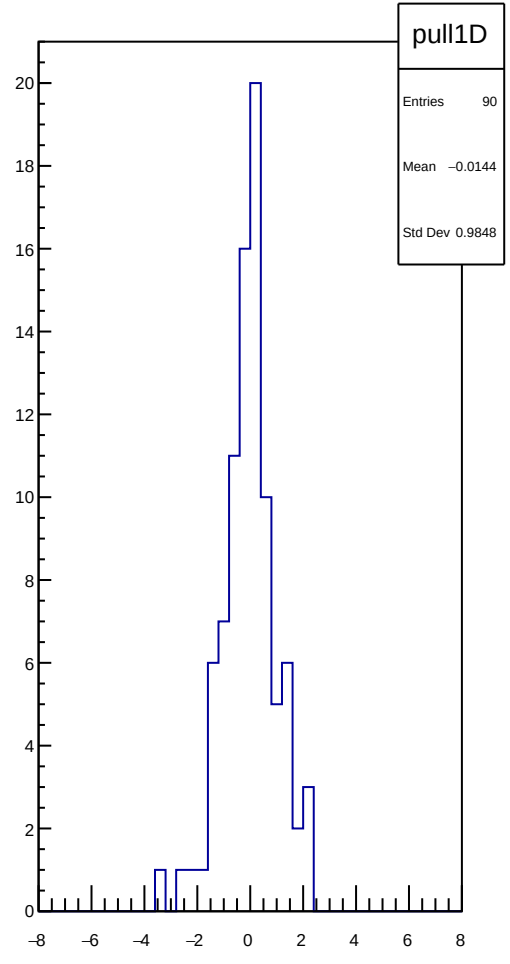

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 428.2 / 89
p0 1026 ± 0.7738
1120
1100
1080
1060
1040
1020
1000
980

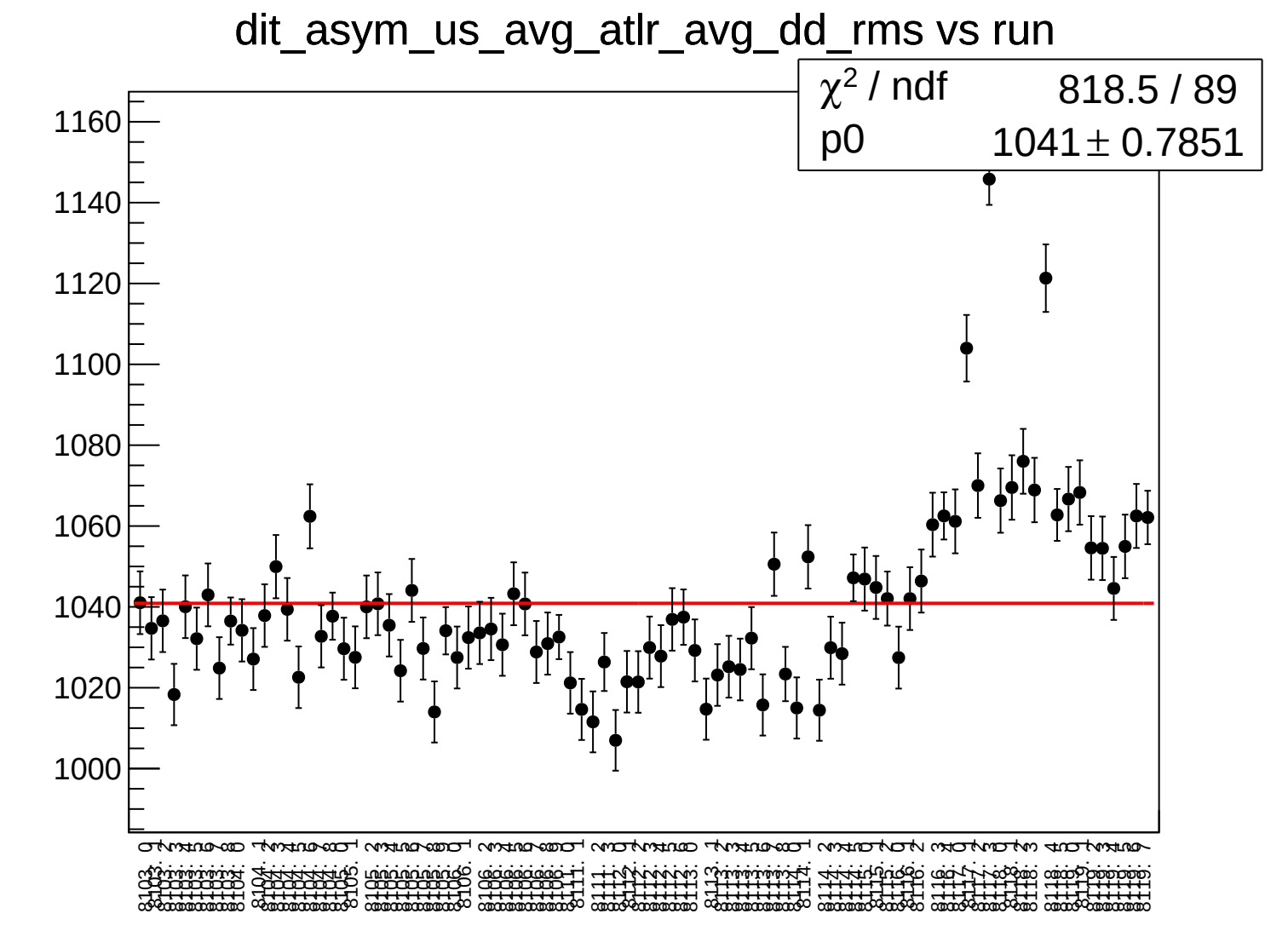

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.51 / 89
p0 −4116 ± 3239
150
100
50
0
−50
−100
pull
Entries 90
Mean −719.9
Std Dev 0
3
2
1
0
−1
−2

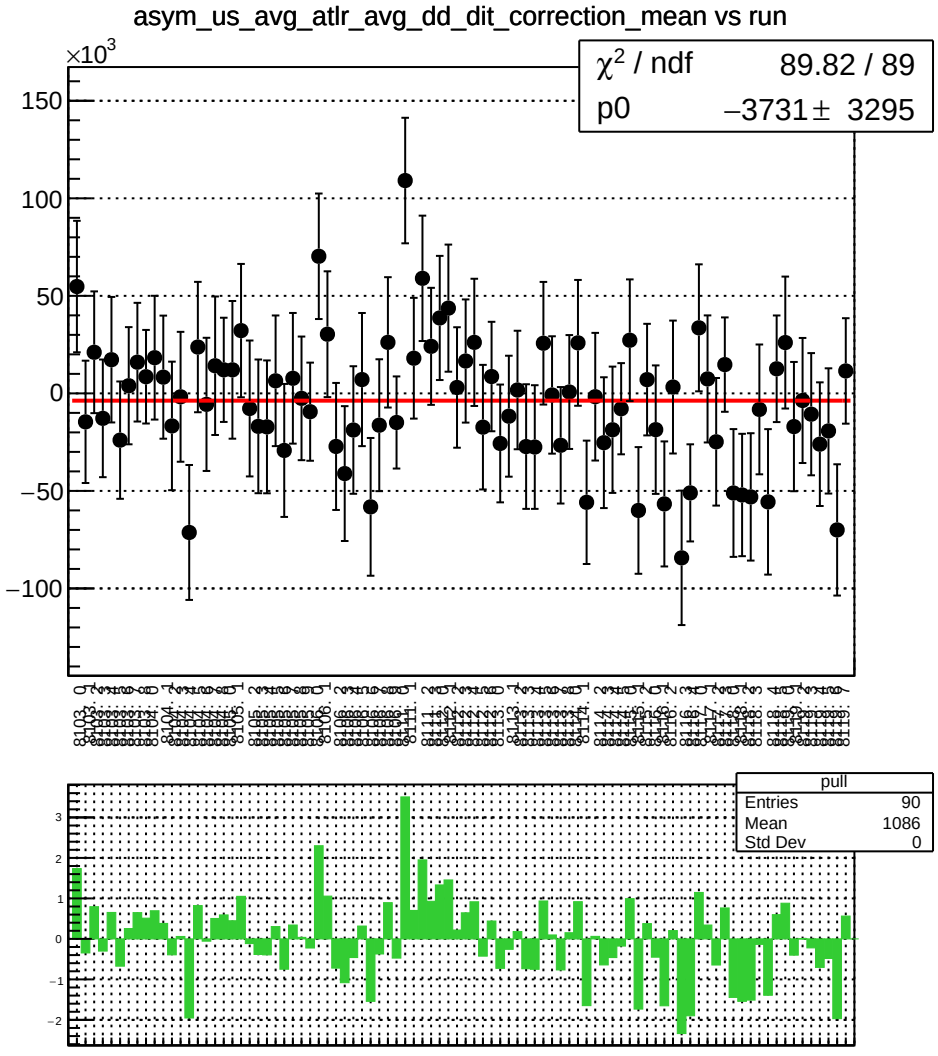

pull1D
Entries 90
Mean 0.009561
Std Dev 0.9972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

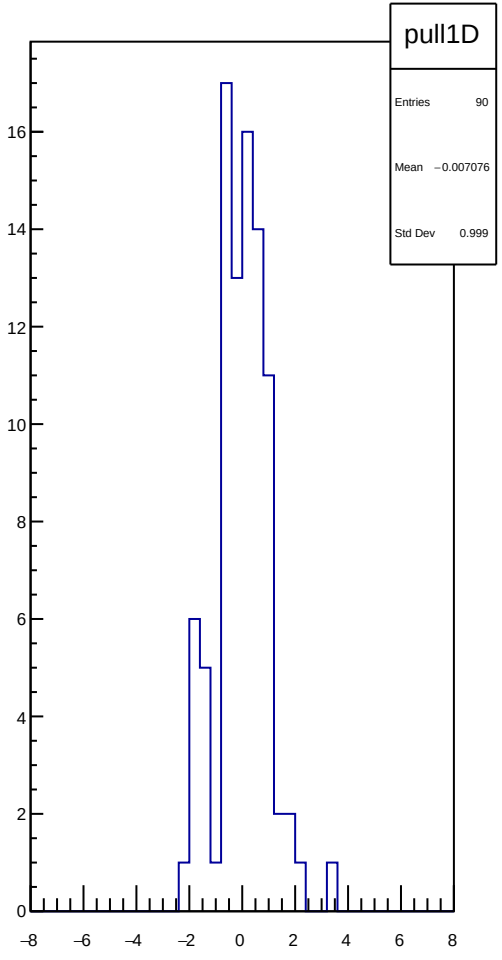

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7022 / 89
p0 3031 ± 2.29
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600

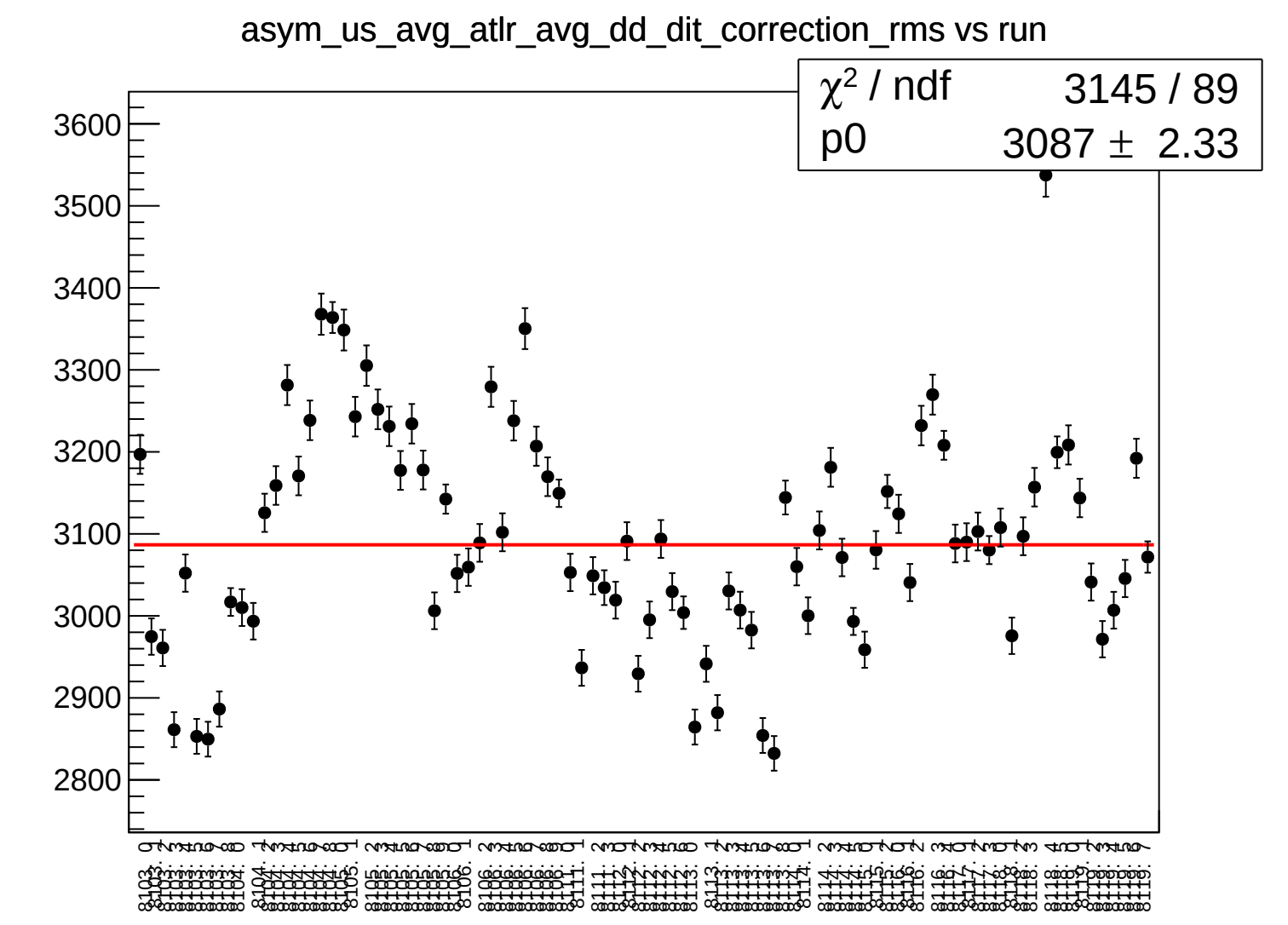

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.31 / 89
p0 −721 ± 1110
pull
Entries 90
Mean −102.8
Std Dev 0

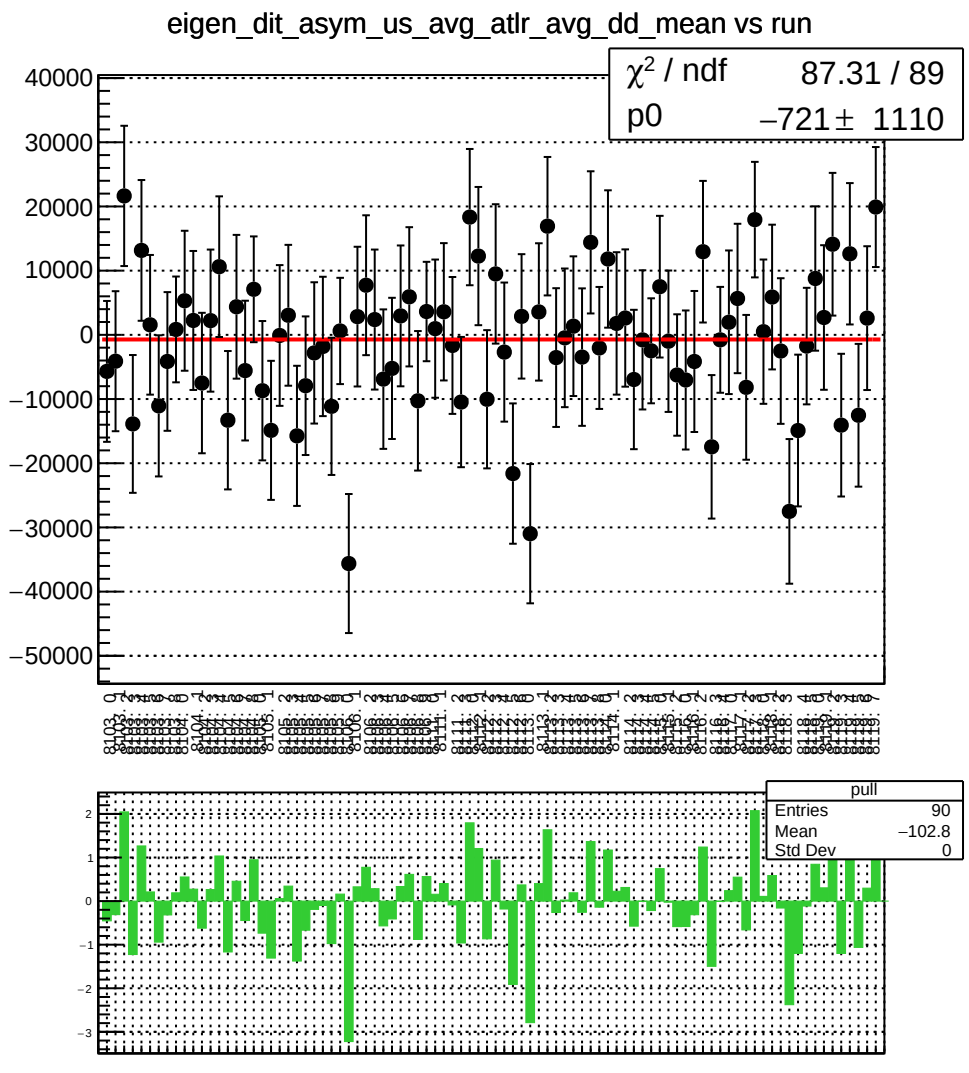

pull1D
Entries 90
Mean −0.0144
Std Dev 0.9848

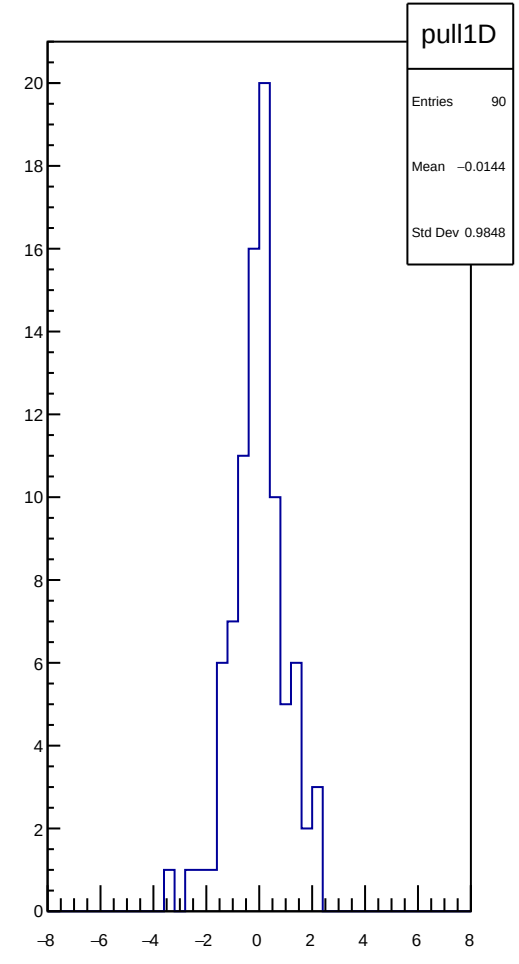

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 818.5 / 89
p0 1041 ± 0.7851
1160
1140
1120
1100
1080
1060
1040
1020
1000

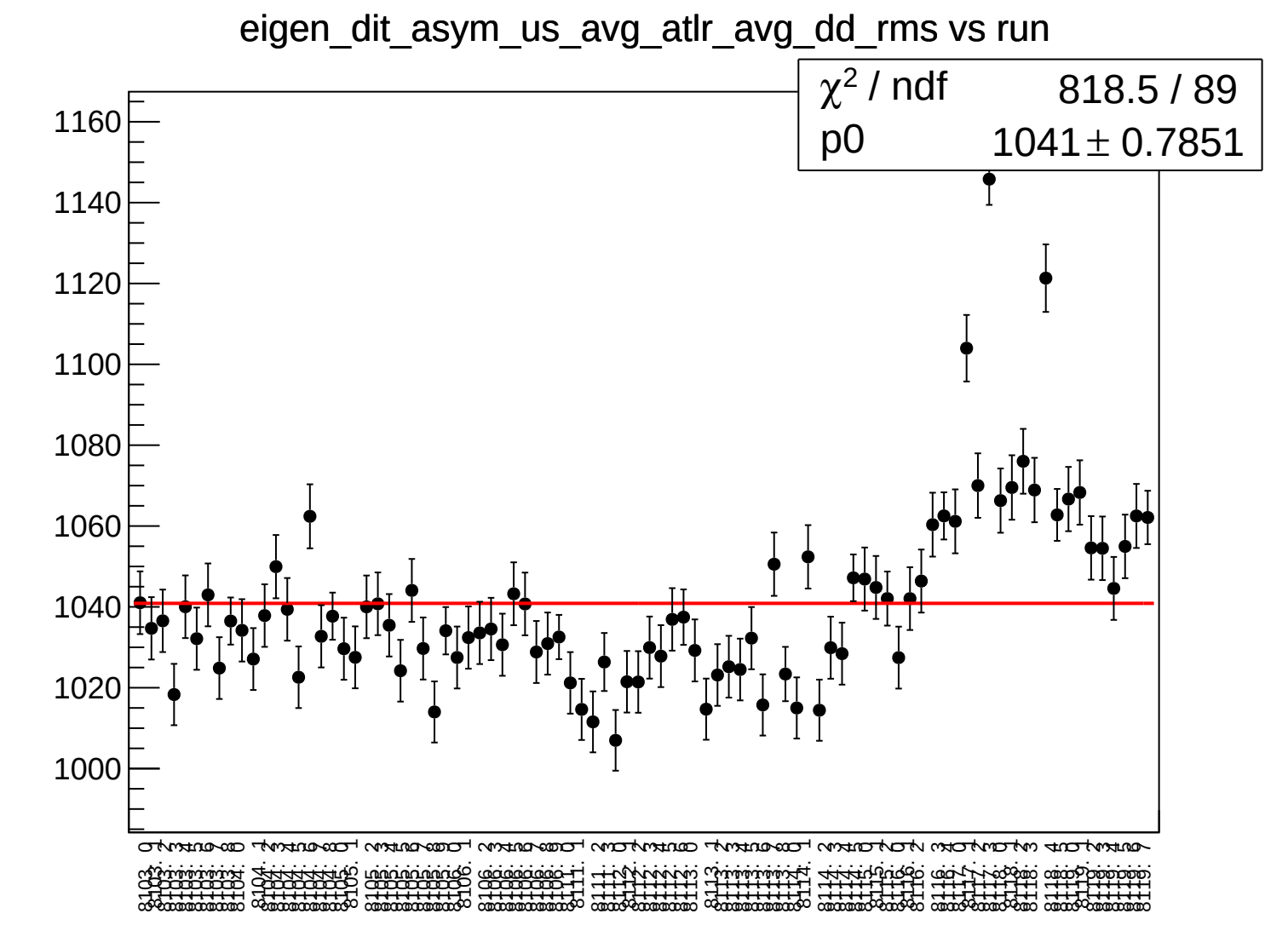

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.82 / 89
p0 −3731 ± 3295
150
100
50
0
−50
−100
pull
Entries 90
Mean 1086
Std Dev 0
3
2
1
0
−1
−2

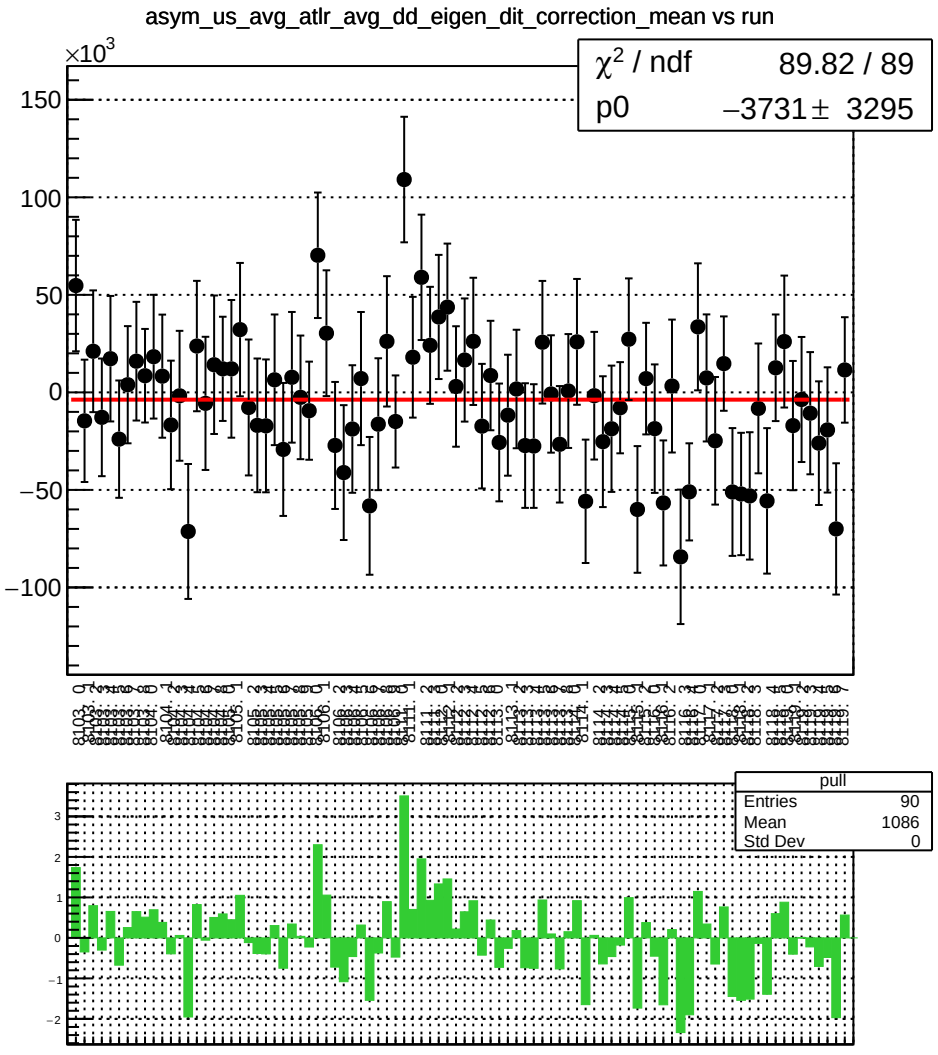

pull1D
Entries 90
Mean −0.007076
Std Dev 0.999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

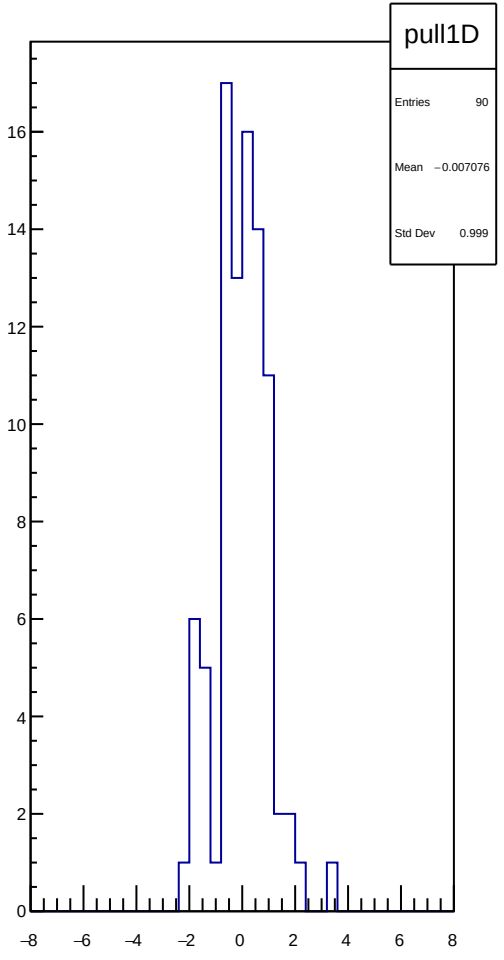

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 3145 / 89
p0 3087 ± 2.33
3600
3500
3400
3300
3200
3100
3000
2900
2800

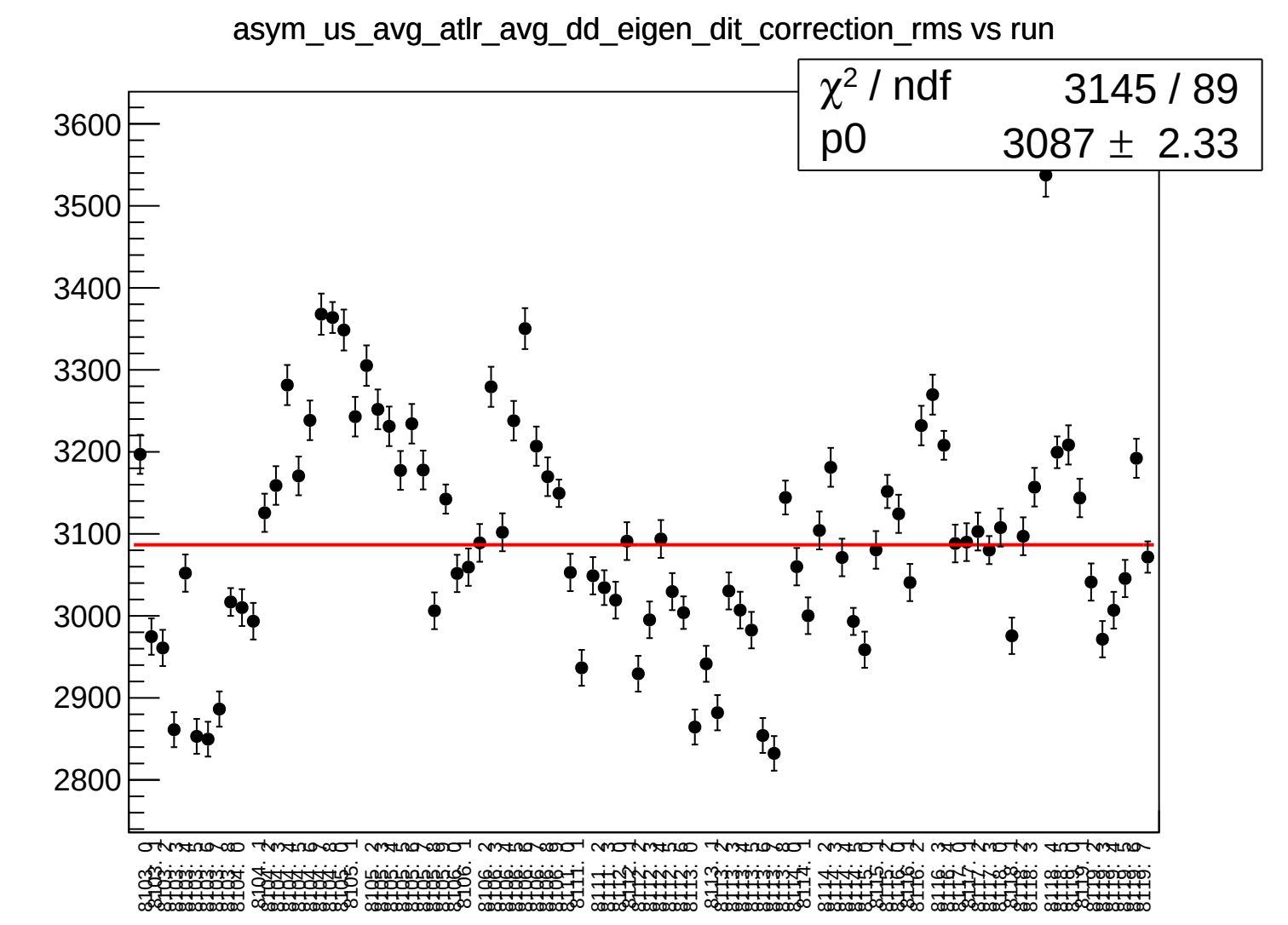

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.31 / 89
p0 −721 ± 1110
pull
Entries 90
Mean −102.8
Std Dev 0

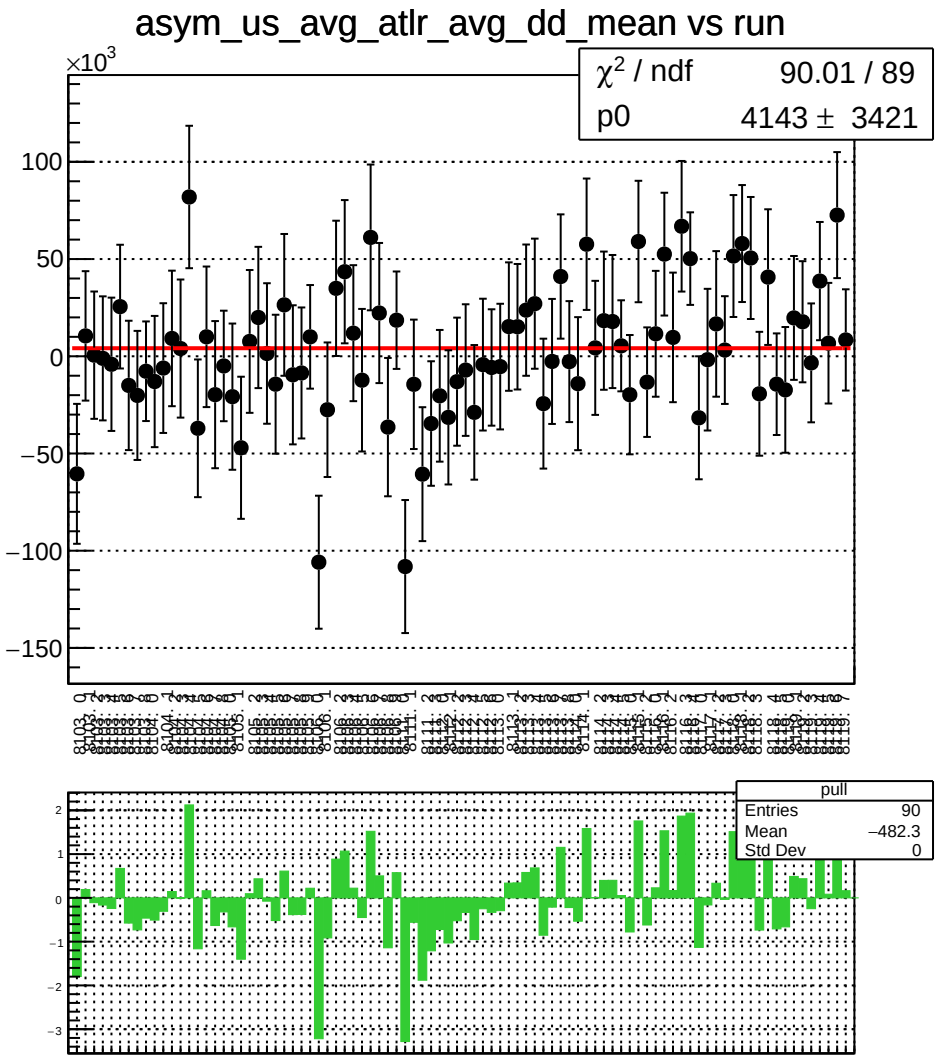

pull1D
Entries 90
Mean −0.0144
Std Dev 0.9848

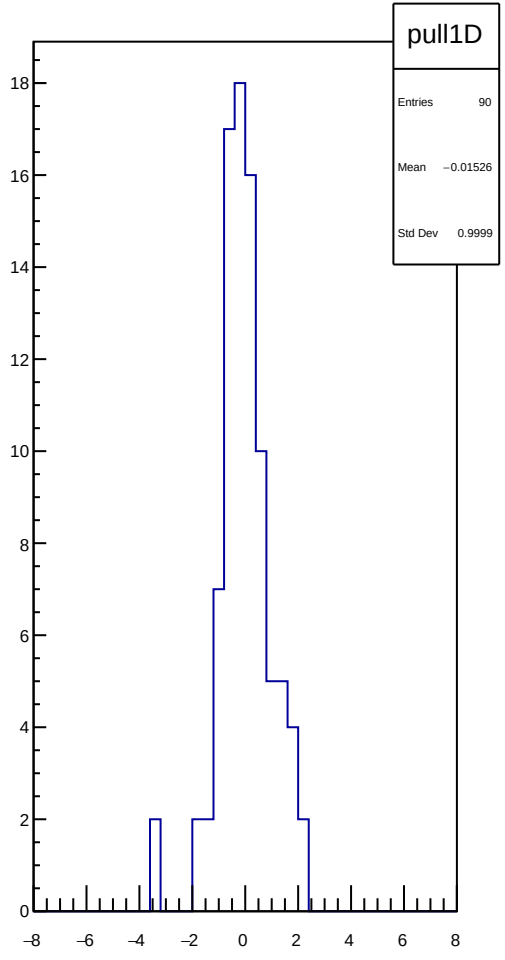

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 818.5 / 89
p0 1041 ± 0.7851
1160
1140
1120
1100
1080
1060
1040
1020
1000

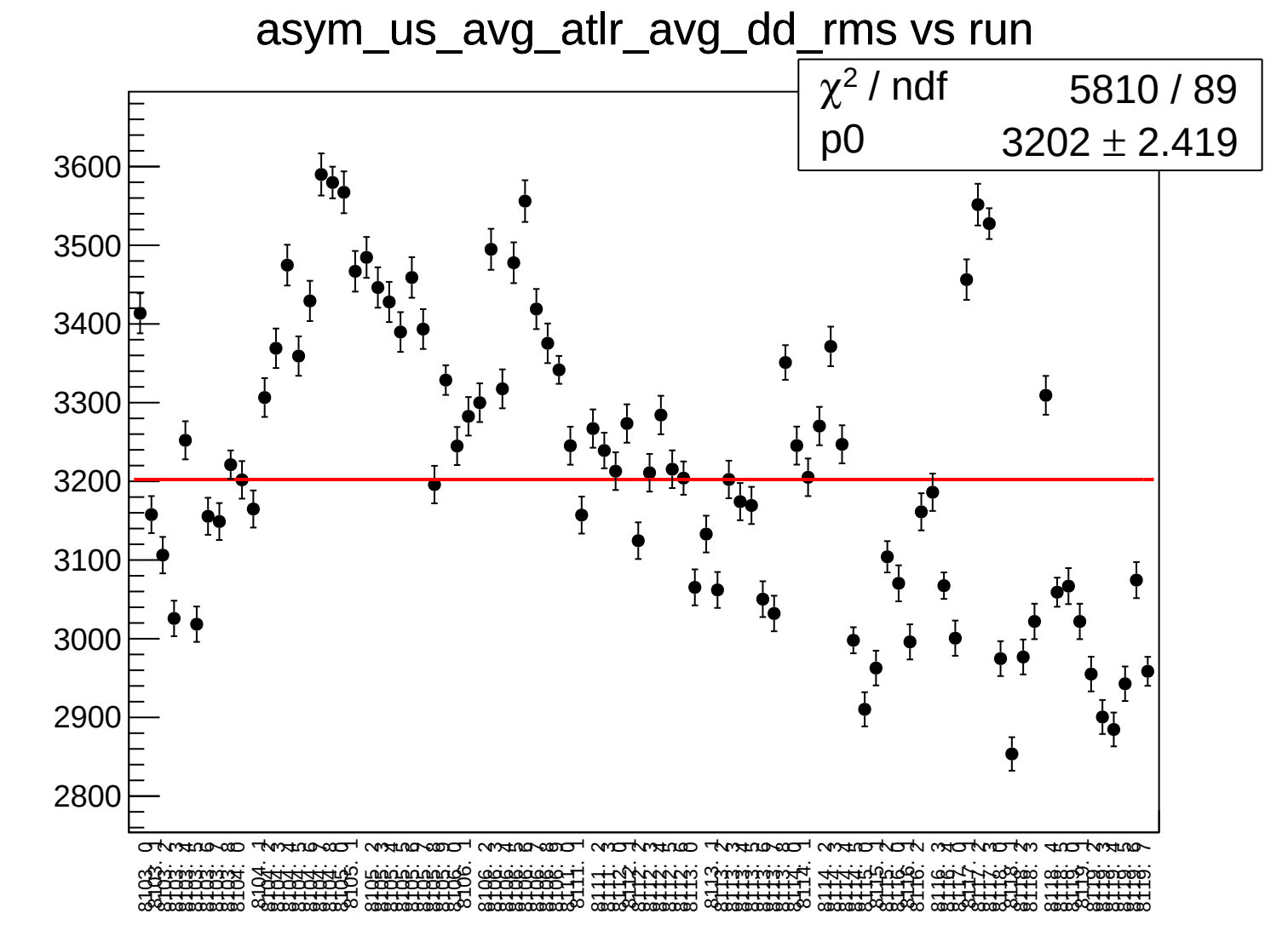

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.82 / 89
p0 −3731 ± 3295
150
100
50
0
−50
−100
pull
Entries 90
Mean 1086
Std Dev 0
3
2
1
0
−1
−2

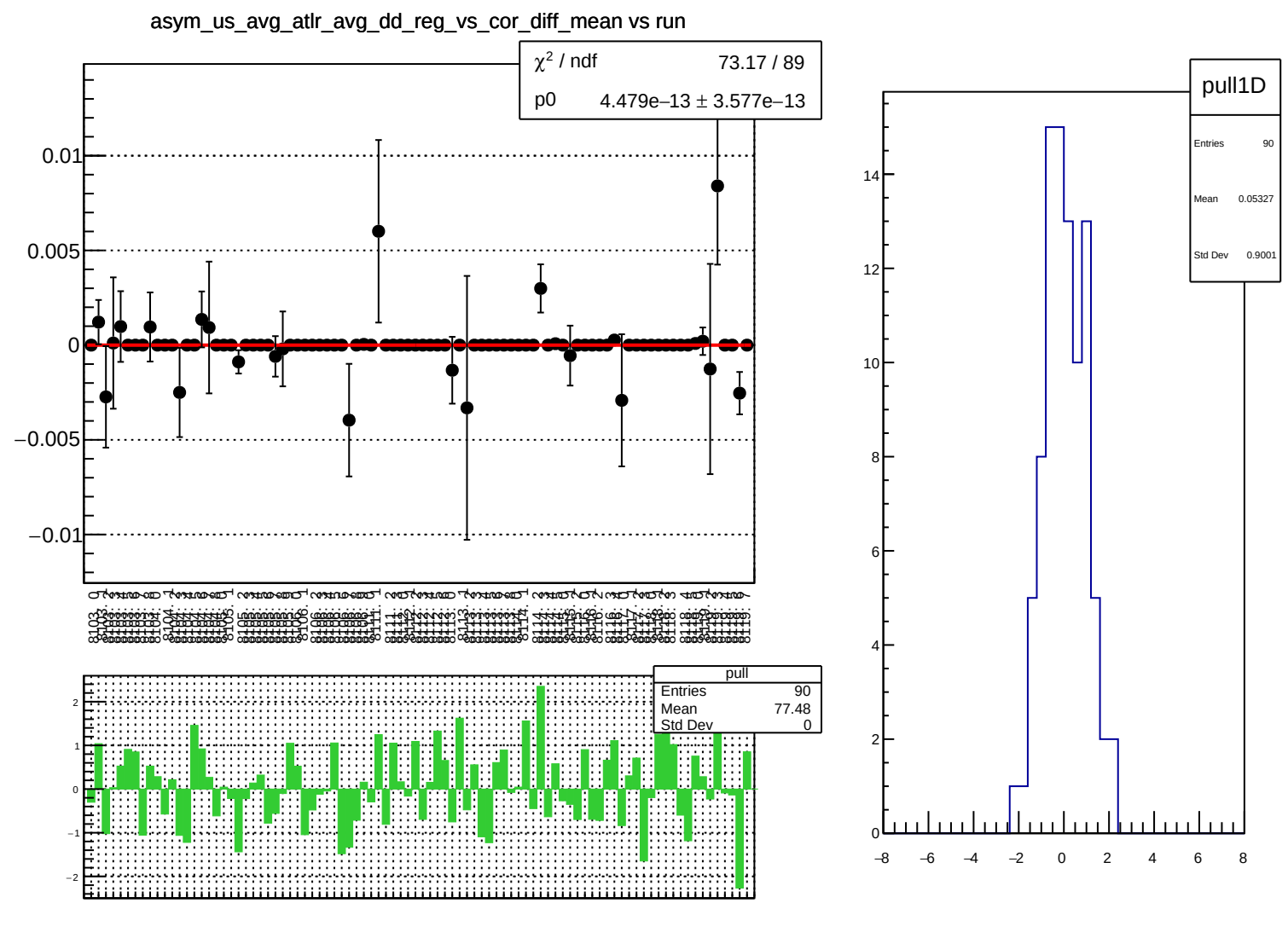

pull1D
Entries 90
Mean −0.007076
Std Dev 0.999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

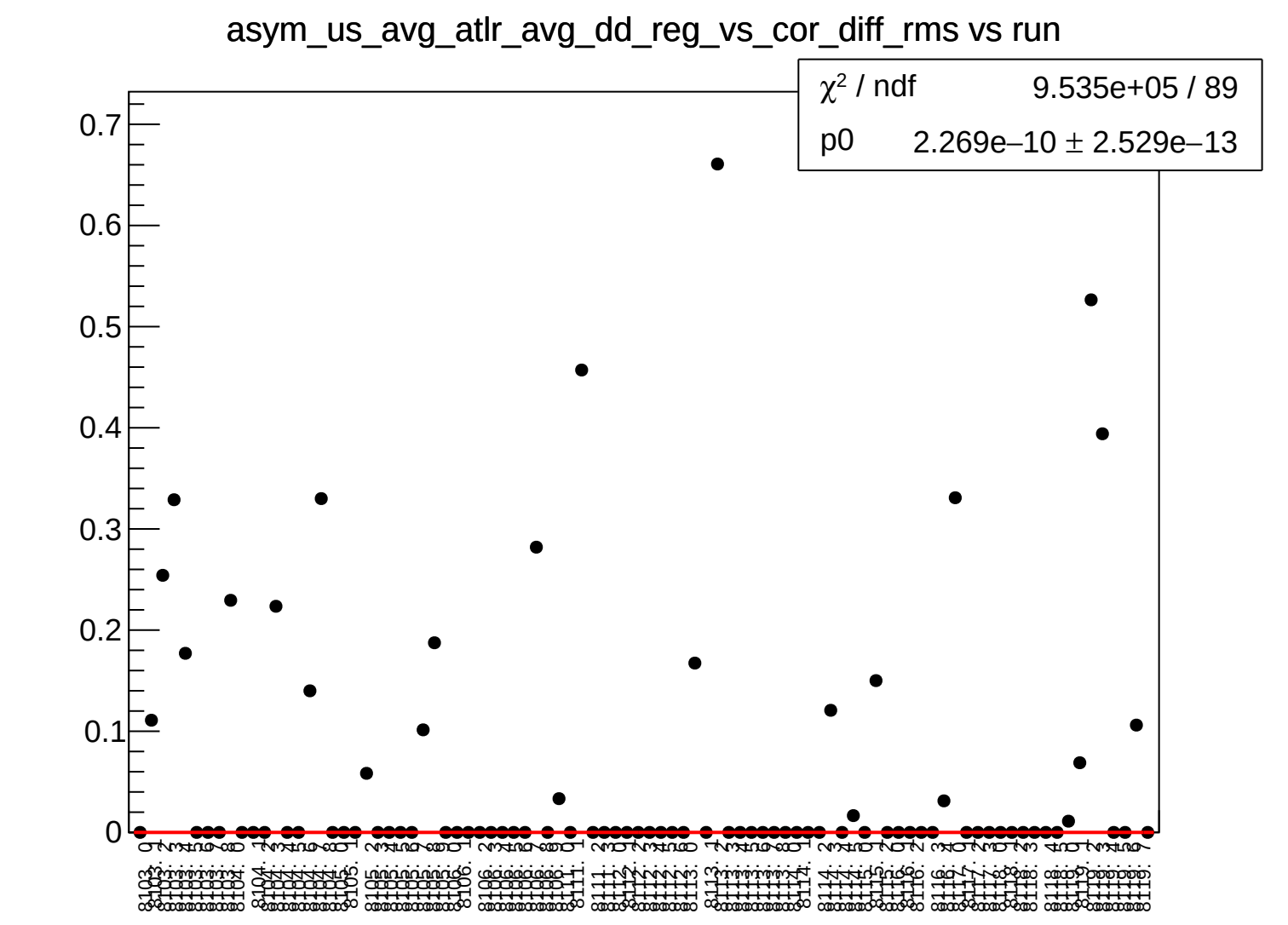

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3145 / 89
p0 3087 ± 2.33
3600
3500
3400
3300
3200
3100
3000
2900
2800

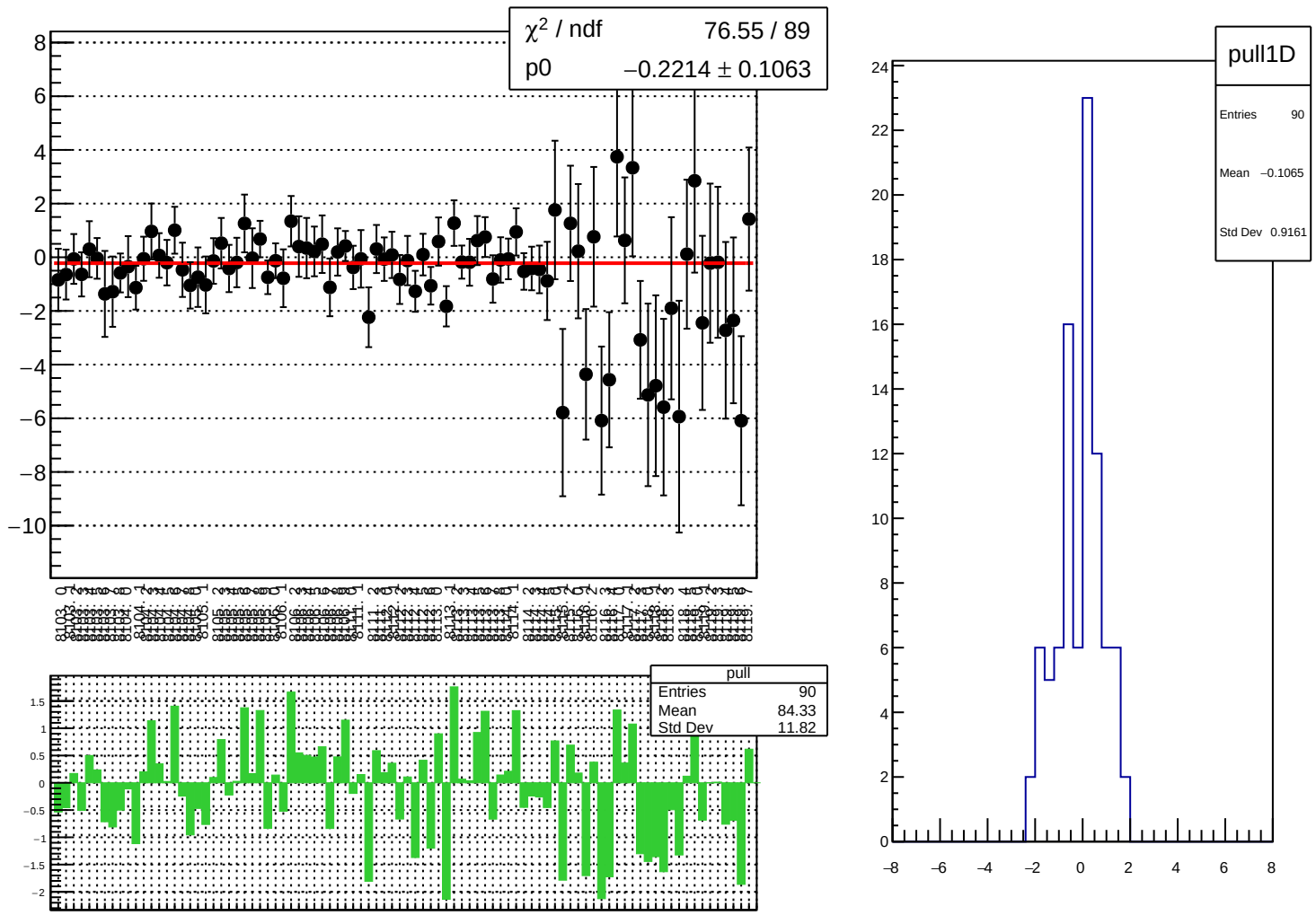

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 90.01 / 89
p0 4143 ± 3421
100
50
0
−50
−100
−150
pull
Entries 90
Mean −482.3
Std Dev 0
2
1
0
−1
−2
−3

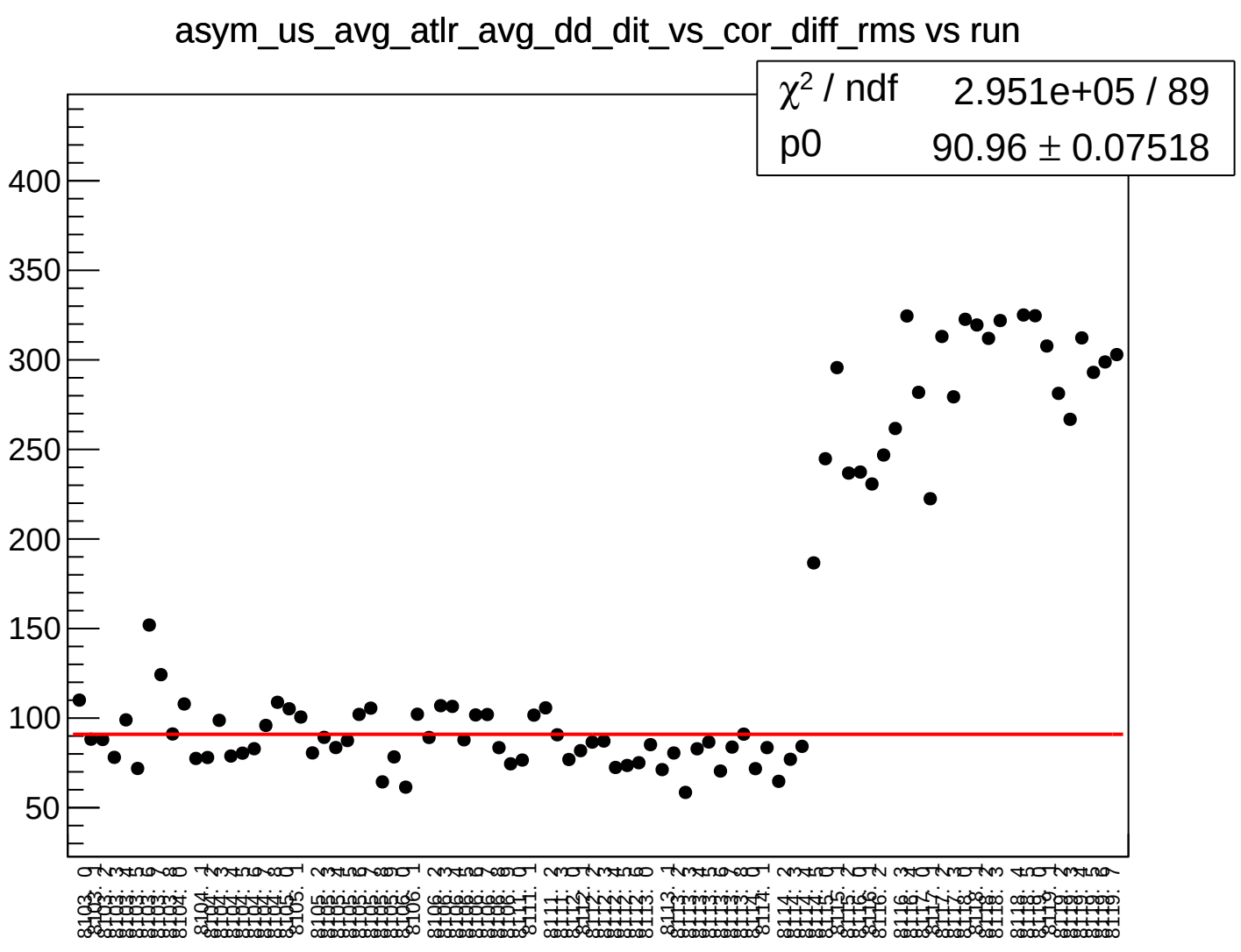

pull1D
Entries 90
Mean −0.01526
Std Dev 0.9999
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

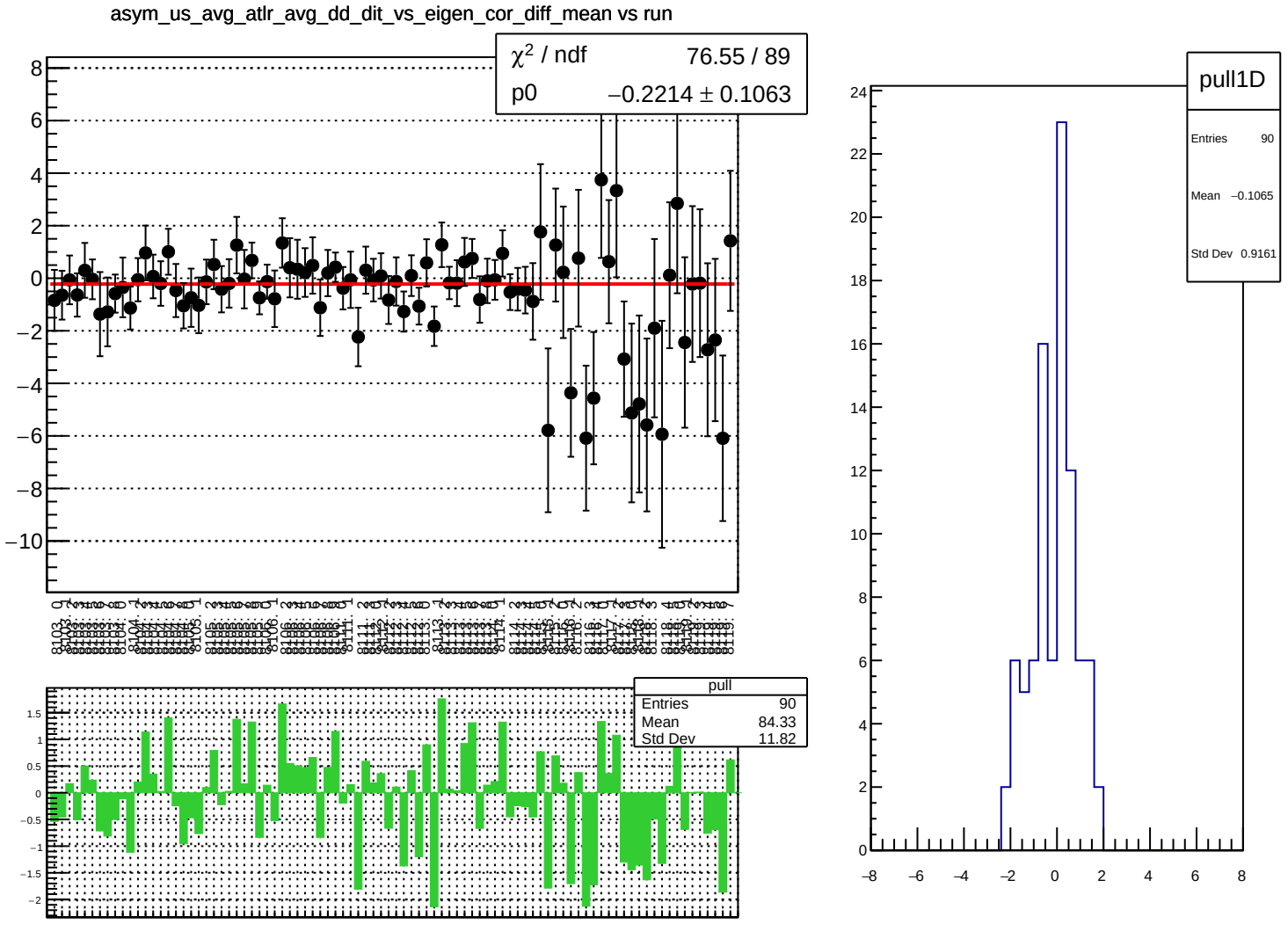

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 5810 / 89
p0 3202 ± 2.419
3600
3500
3400
3300
3200
3100
3000
2900
2800

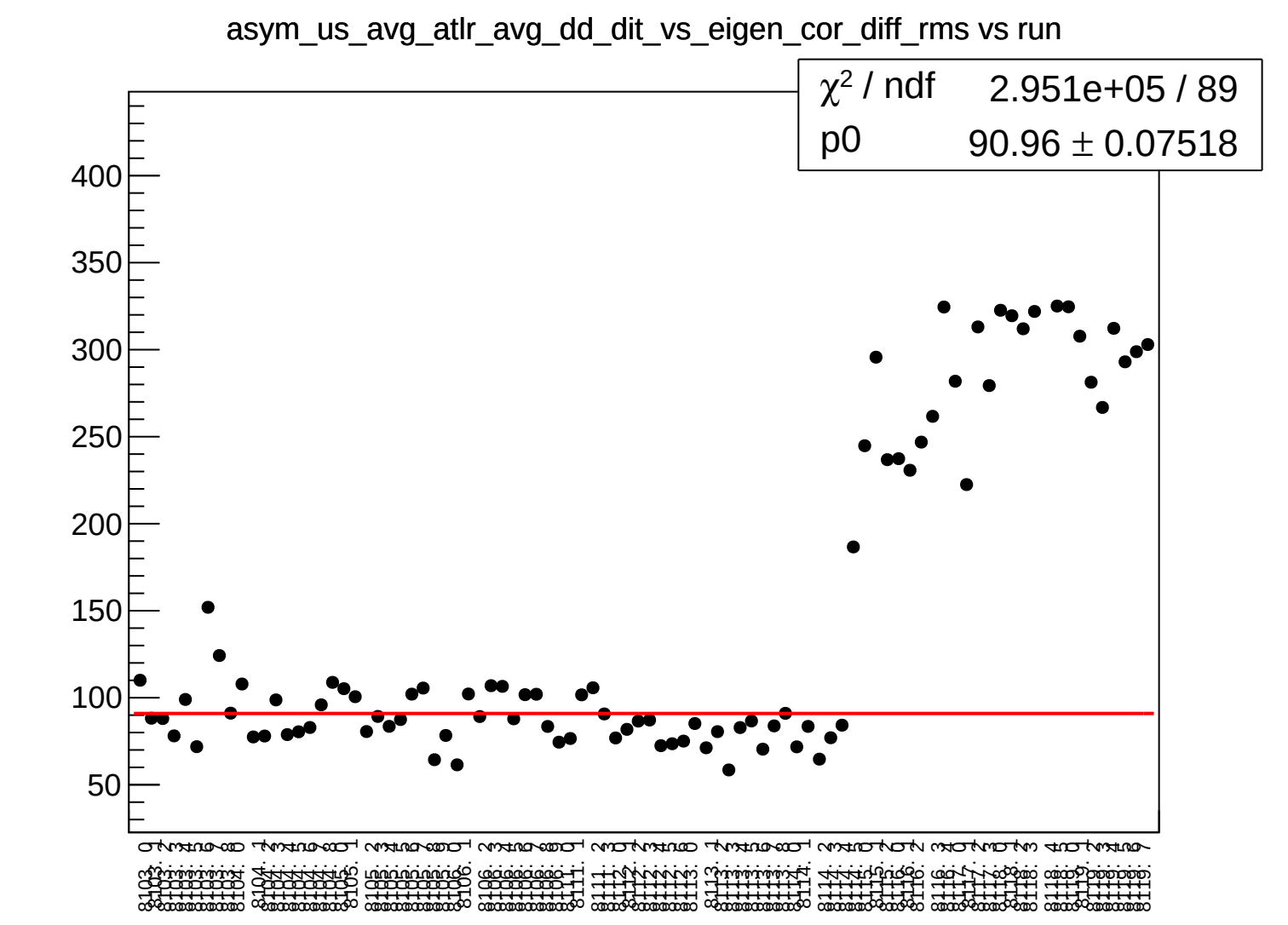

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.17 / 89
p0 4.479e−13 ± 3.577e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 90
Mean 77.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.05327
Std Dev 0.9001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

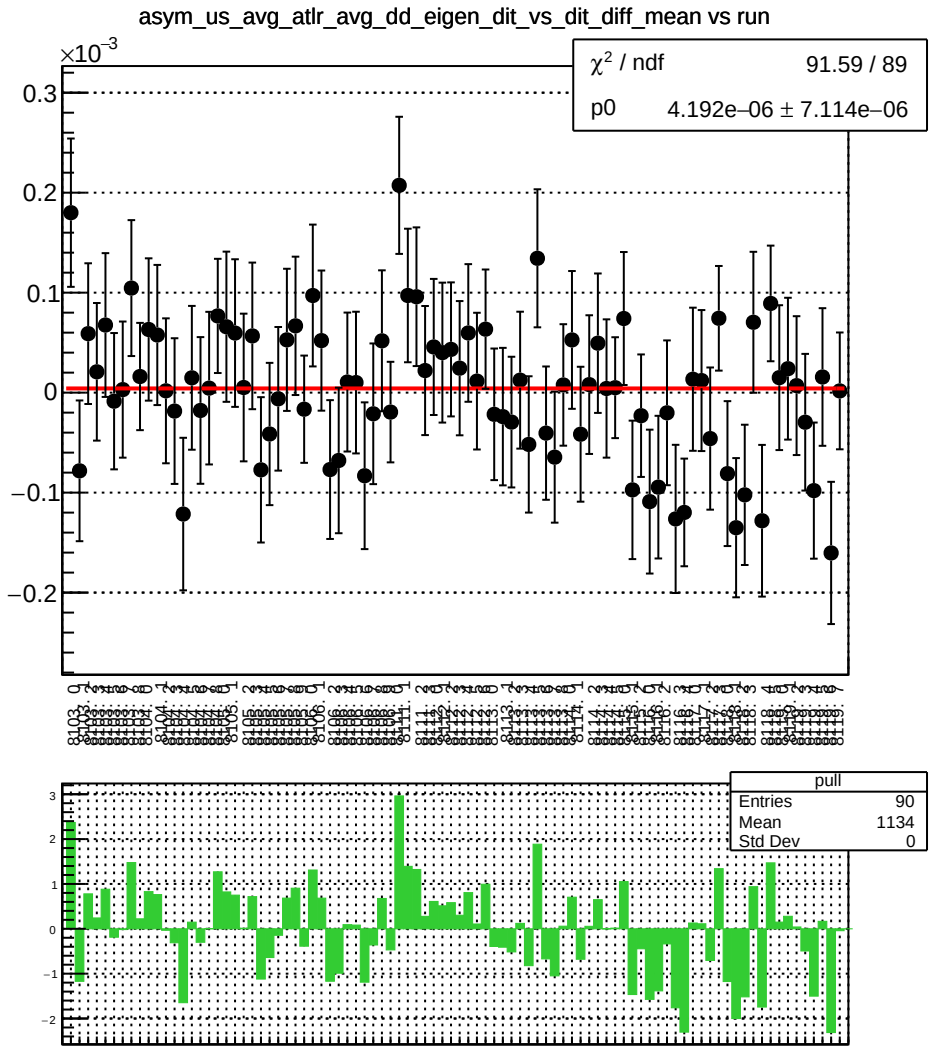

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.535e+05 / 89
p0 2.269e−10 ± 2.529e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

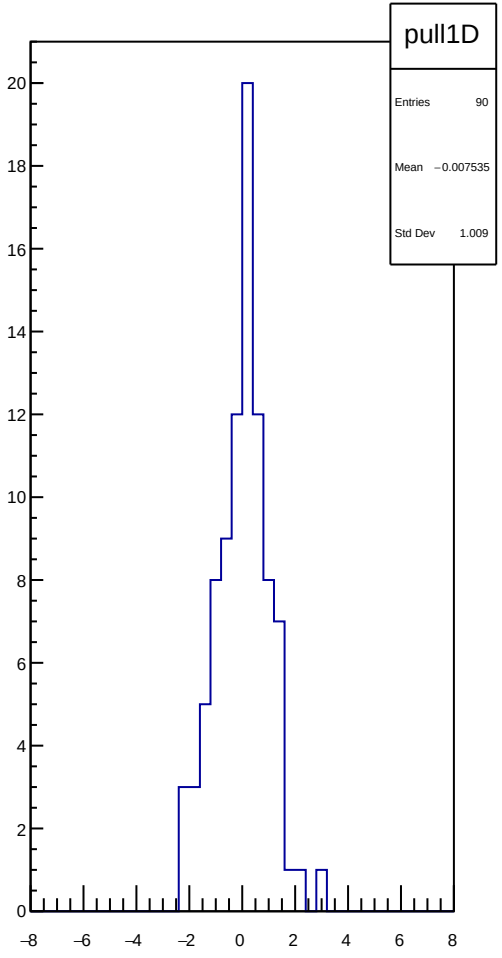

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.55 / 89
p0 −0.2214 ± 0.1063
pull
Entries 90
Mean 84.33
Std Dev 11.82
pull1D
Entries 90
Mean −0.1065
Std Dev 0.9161

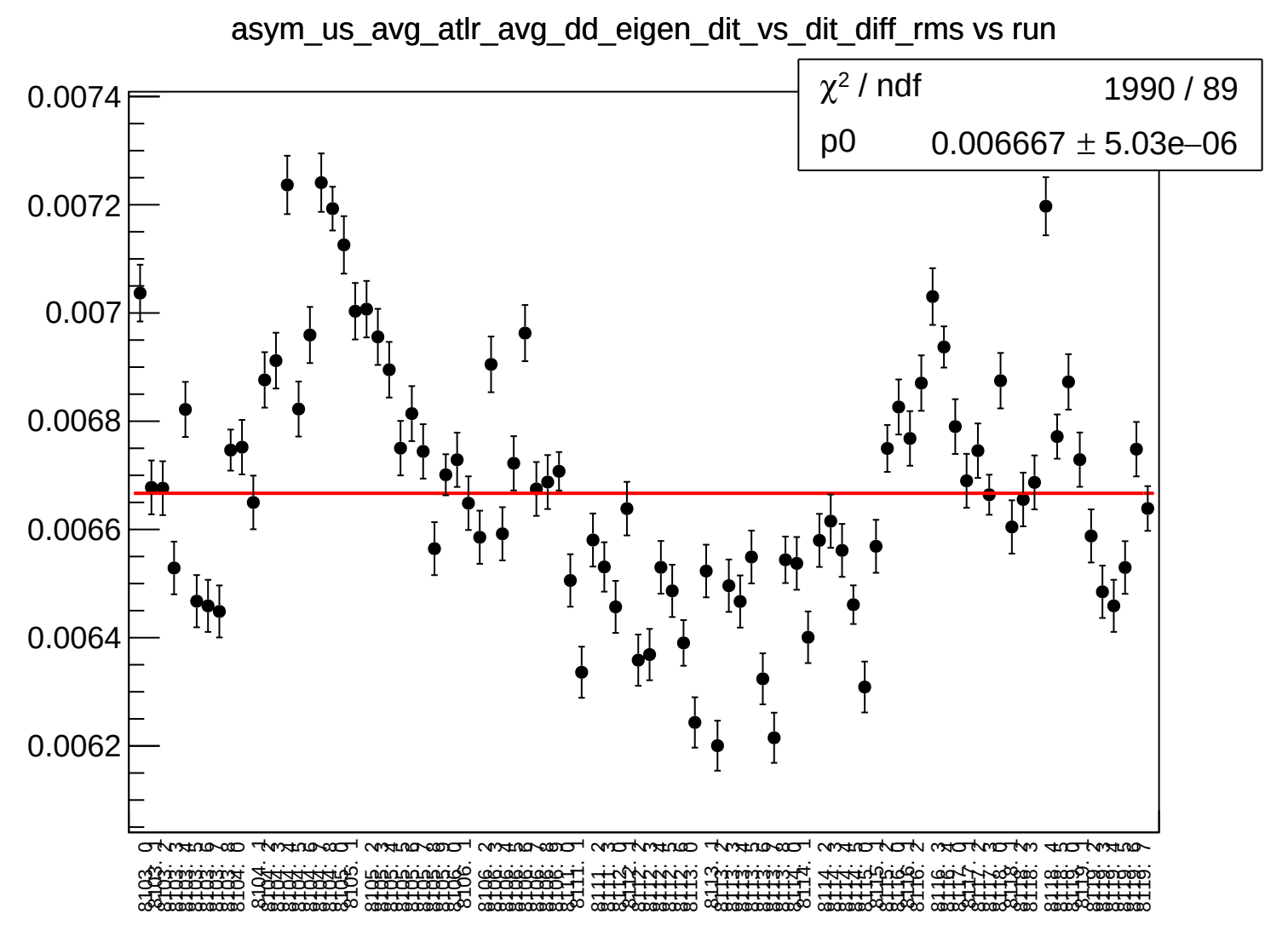

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.951e+05 / 89
p0 90.96 ± 0.07518
400
350
300
250
200
150
100
50

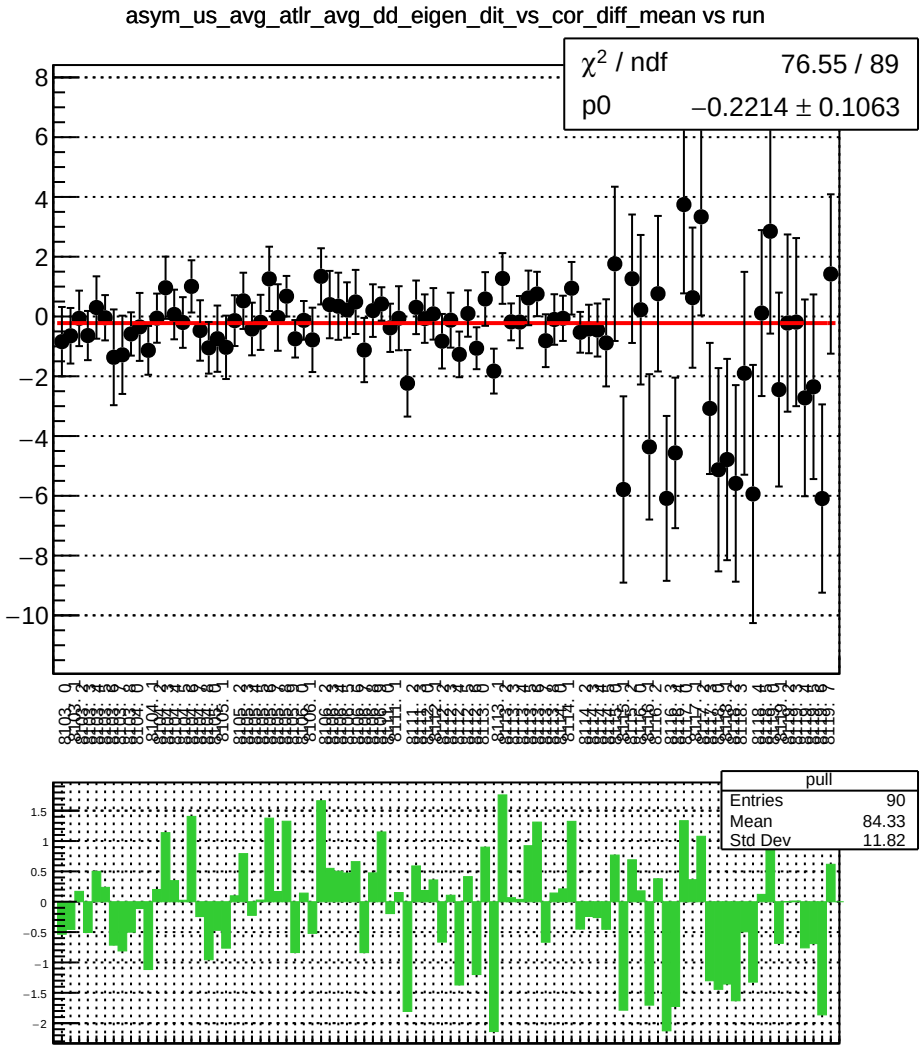

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.55 / 89
p0 −0.2214 ± 0.1063
pull
Entries 90
Mean 84.33
Std Dev 11.82
pull1D
Entries 90
Mean −0.1065
Std Dev 0.9161

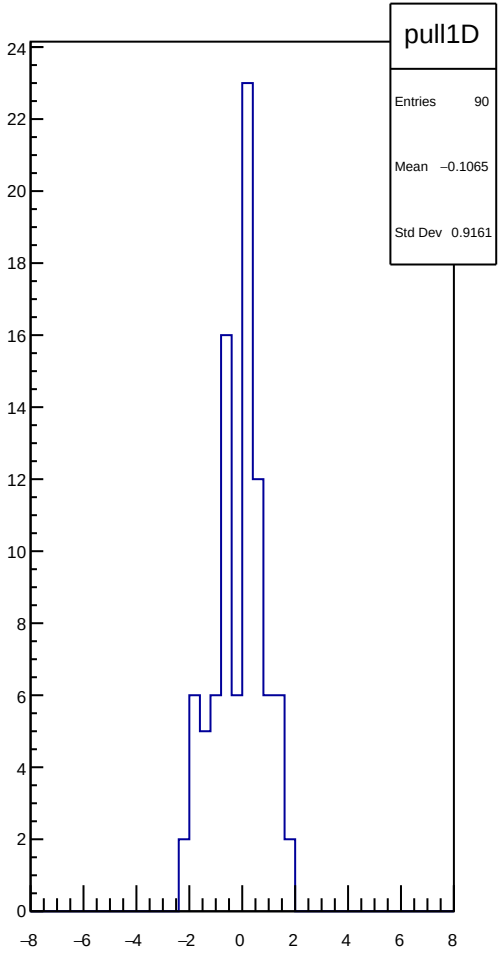

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.951e+05 / 89
p0 90.96 ± 0.07518
400
350
300
250
200
150
100
50

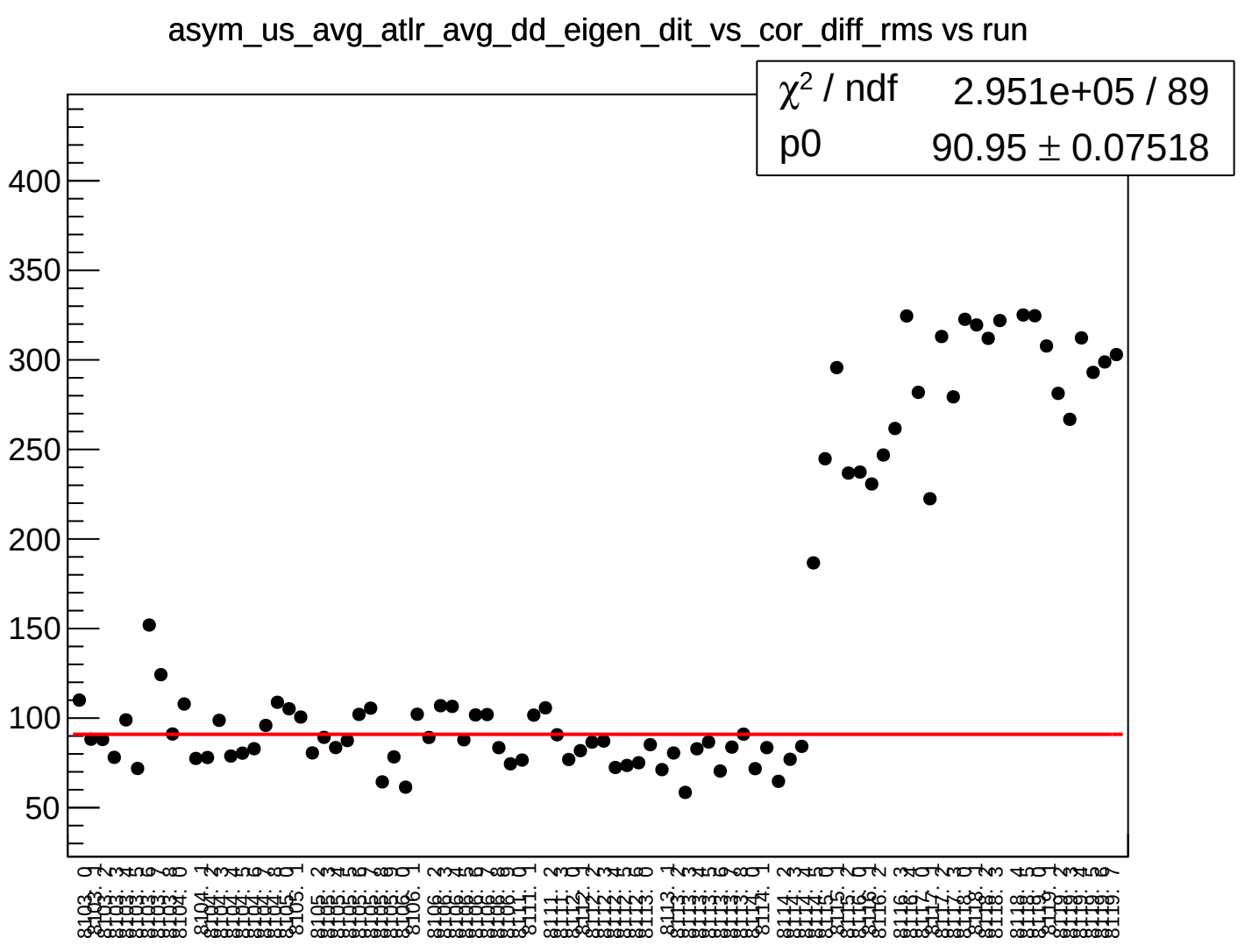

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.59 / 89
p0 4.192e−06 ± 7.114e−06
pull
Entries 90
Mean 1134
Std Dev 0

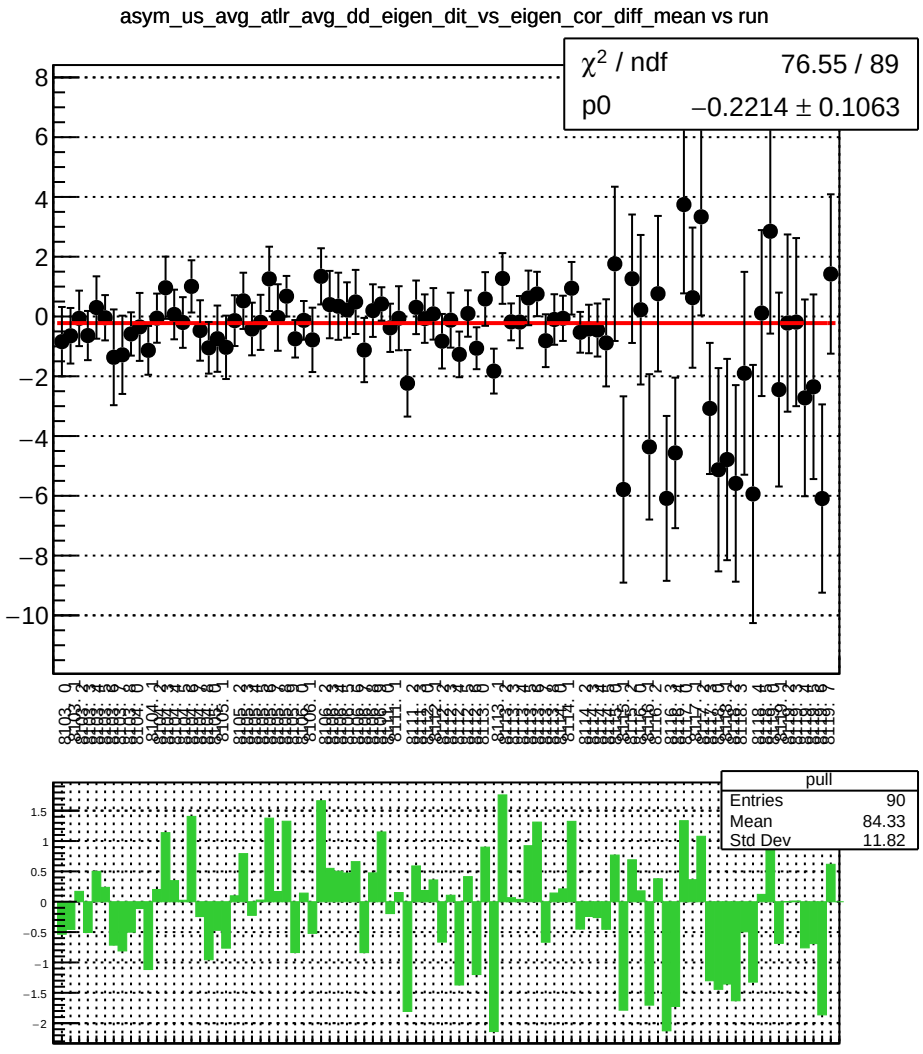

pull1D
Entries 90
Mean −0.007535
Std Dev 1.009

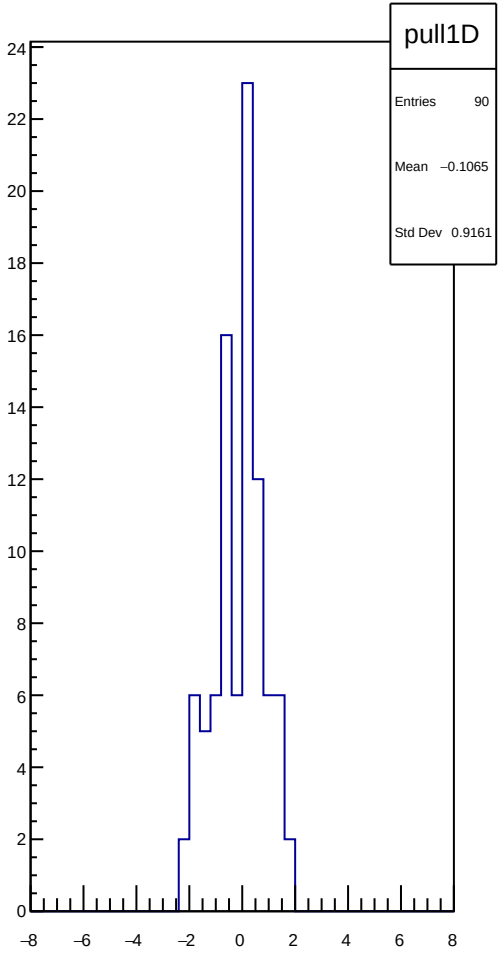

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1990 / 89
p0 0.006667 ± 5.03e–06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

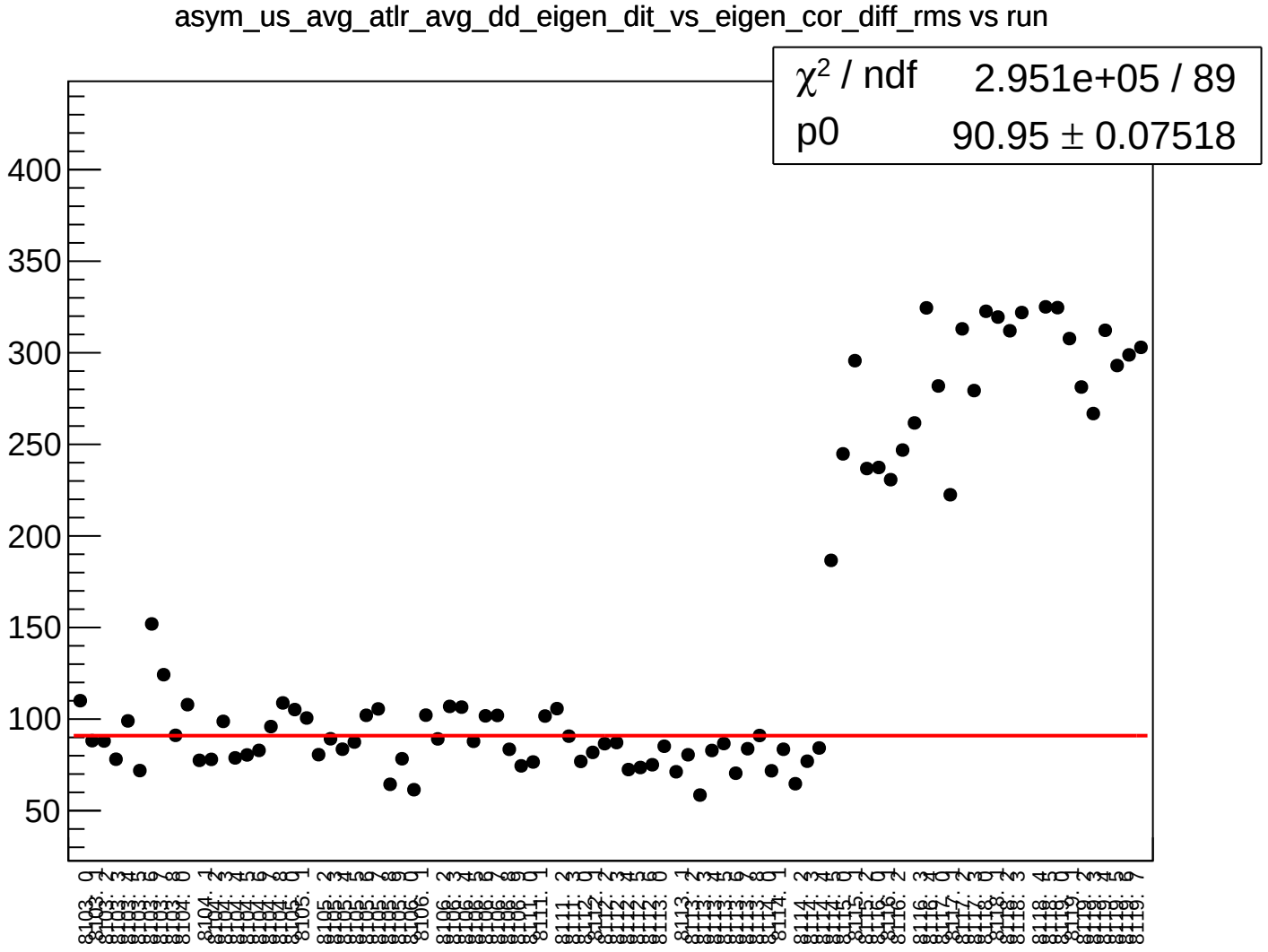

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.55 / 89
p0 −0.2214 ± 0.1063
pull
Entries 90
Mean 84.33
Std Dev 11.82

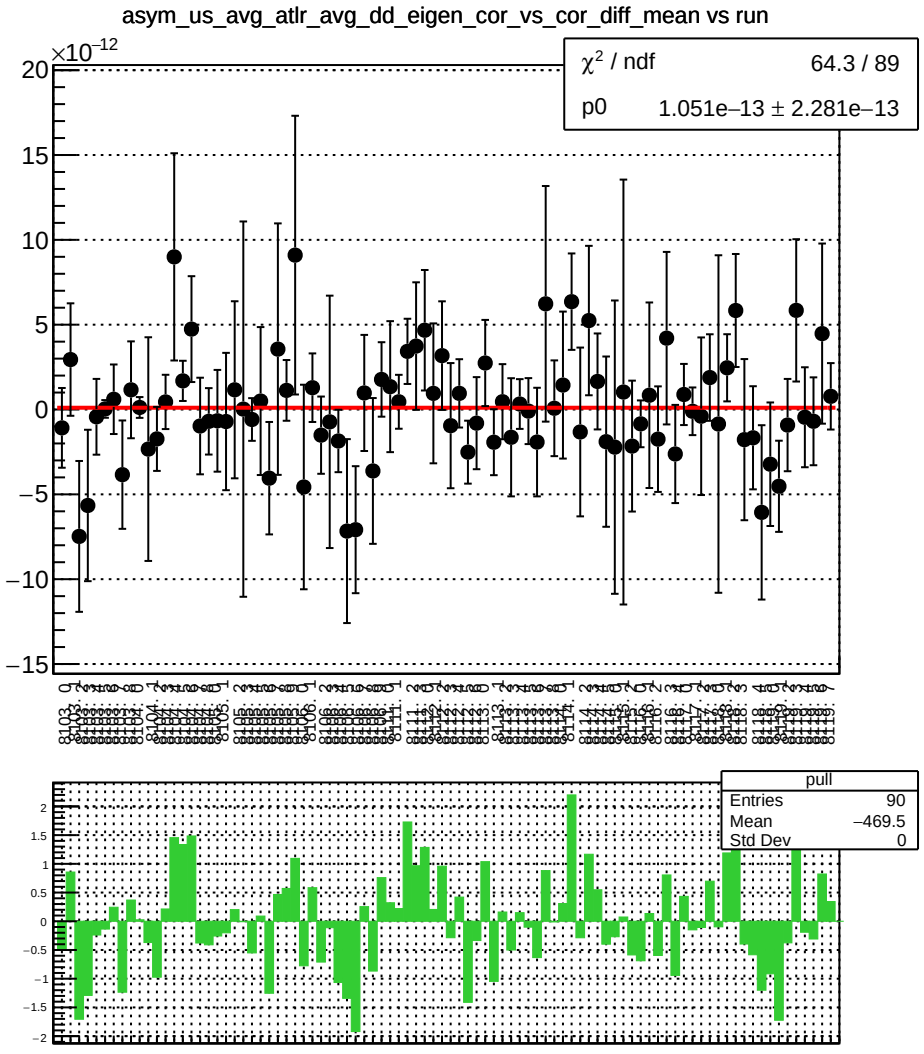

pull1D
Entries 90
Mean −0.1065
Std Dev 0.9161

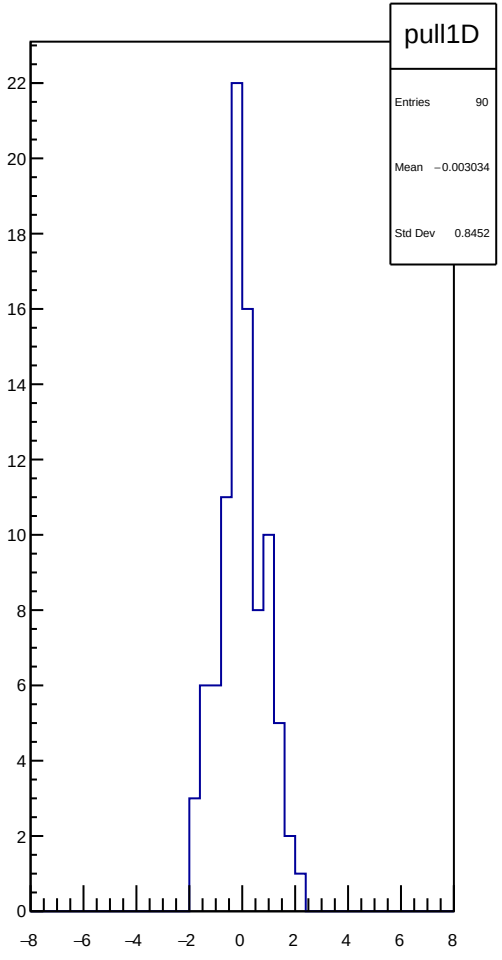

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.951e+05 / 89
p0 90.95 ± 0.07518
400
350
300
250
200
150
100
50

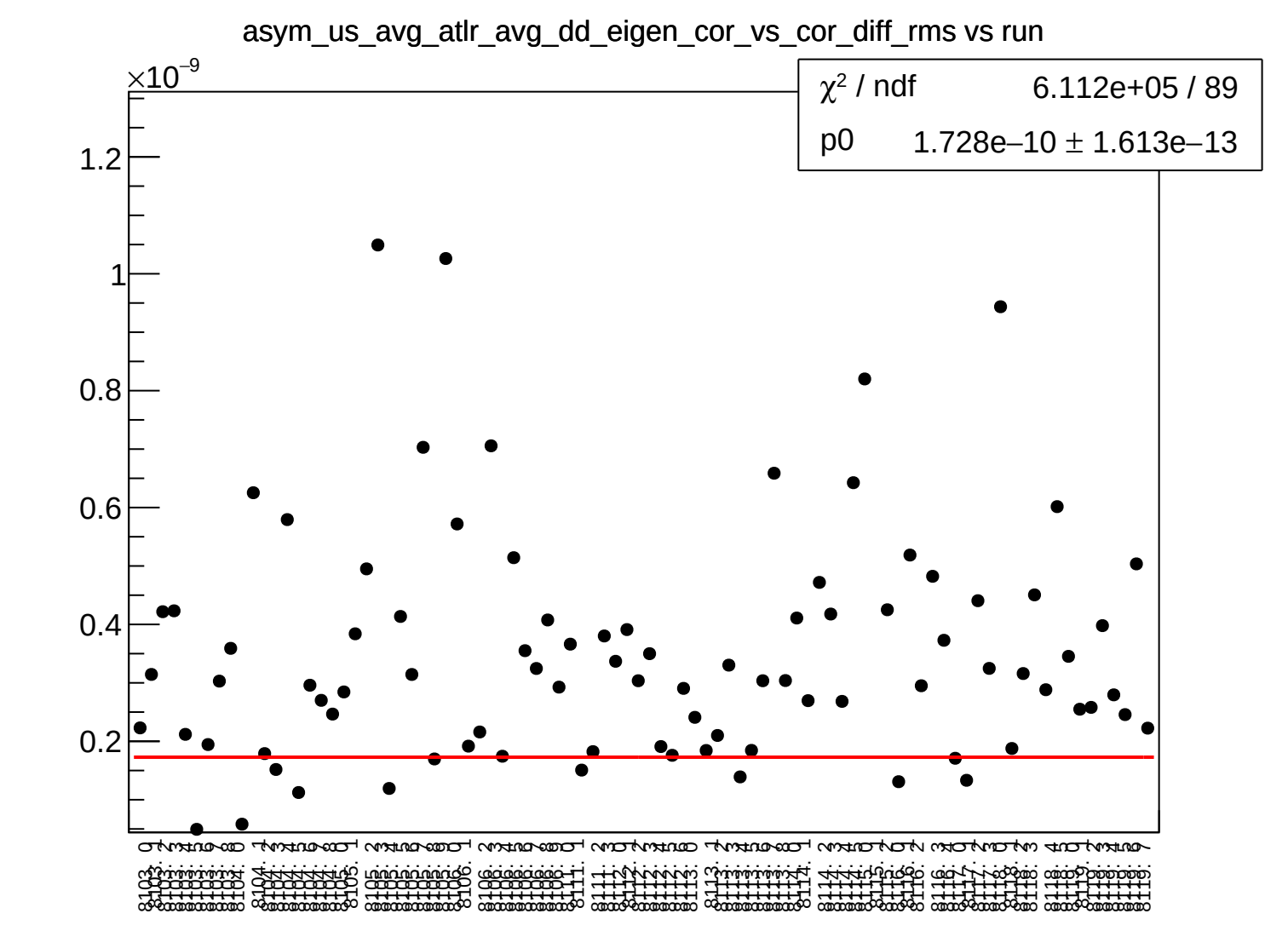

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.55 / 89
p0 −0.2214 ± 0.1063
pull
Entries 90
Mean 84.33
Std Dev 11.82

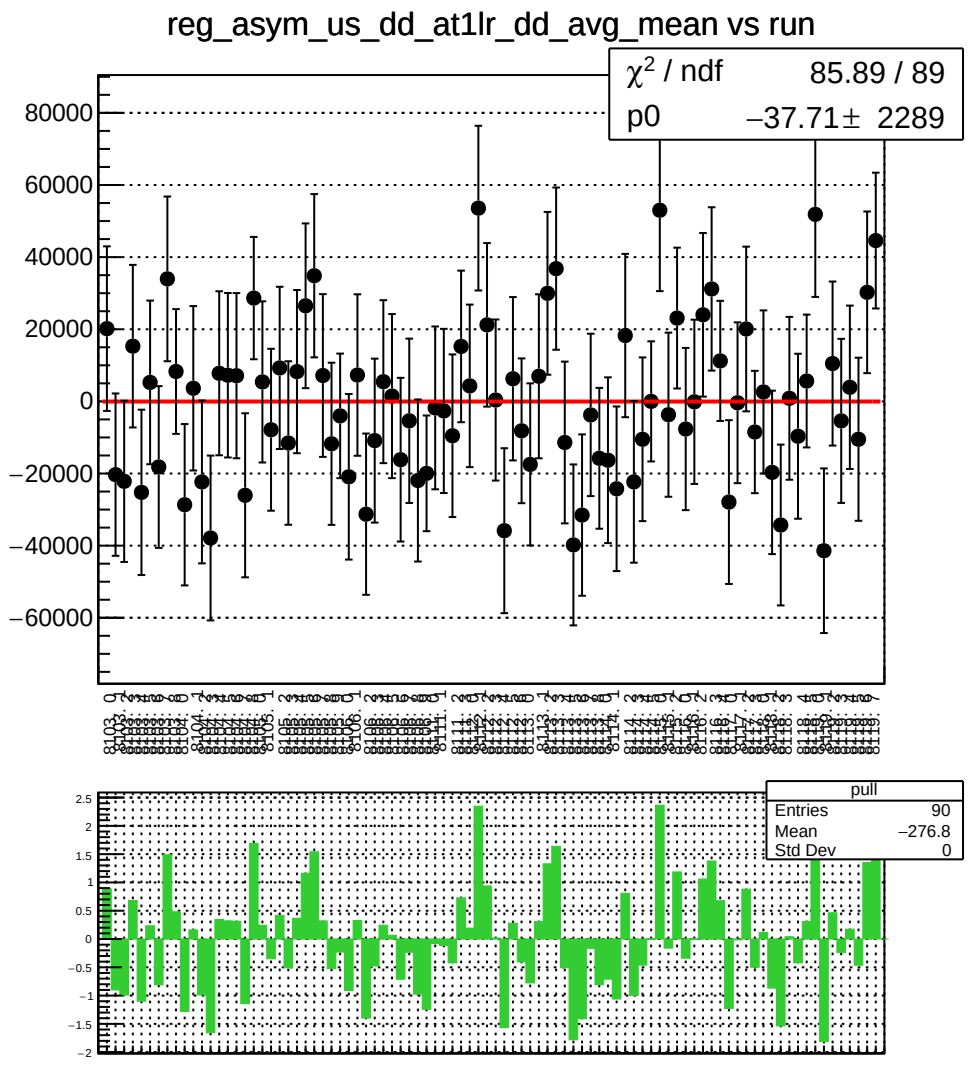

pull1D
Entries 90
Mean −0.1065
Std Dev 0.9161

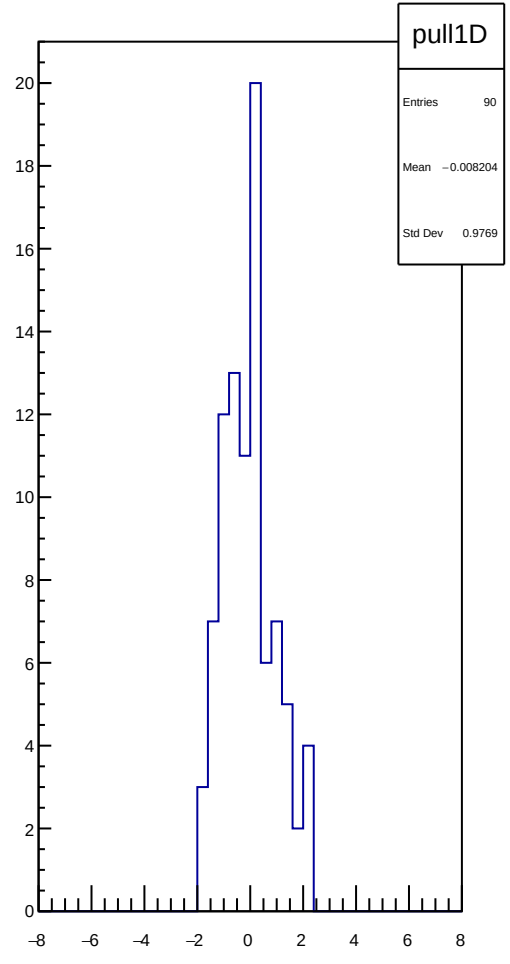

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.951e+05 / 89
p0 90.95 ± 0.07518
400
350
300
250
200
150
100
50

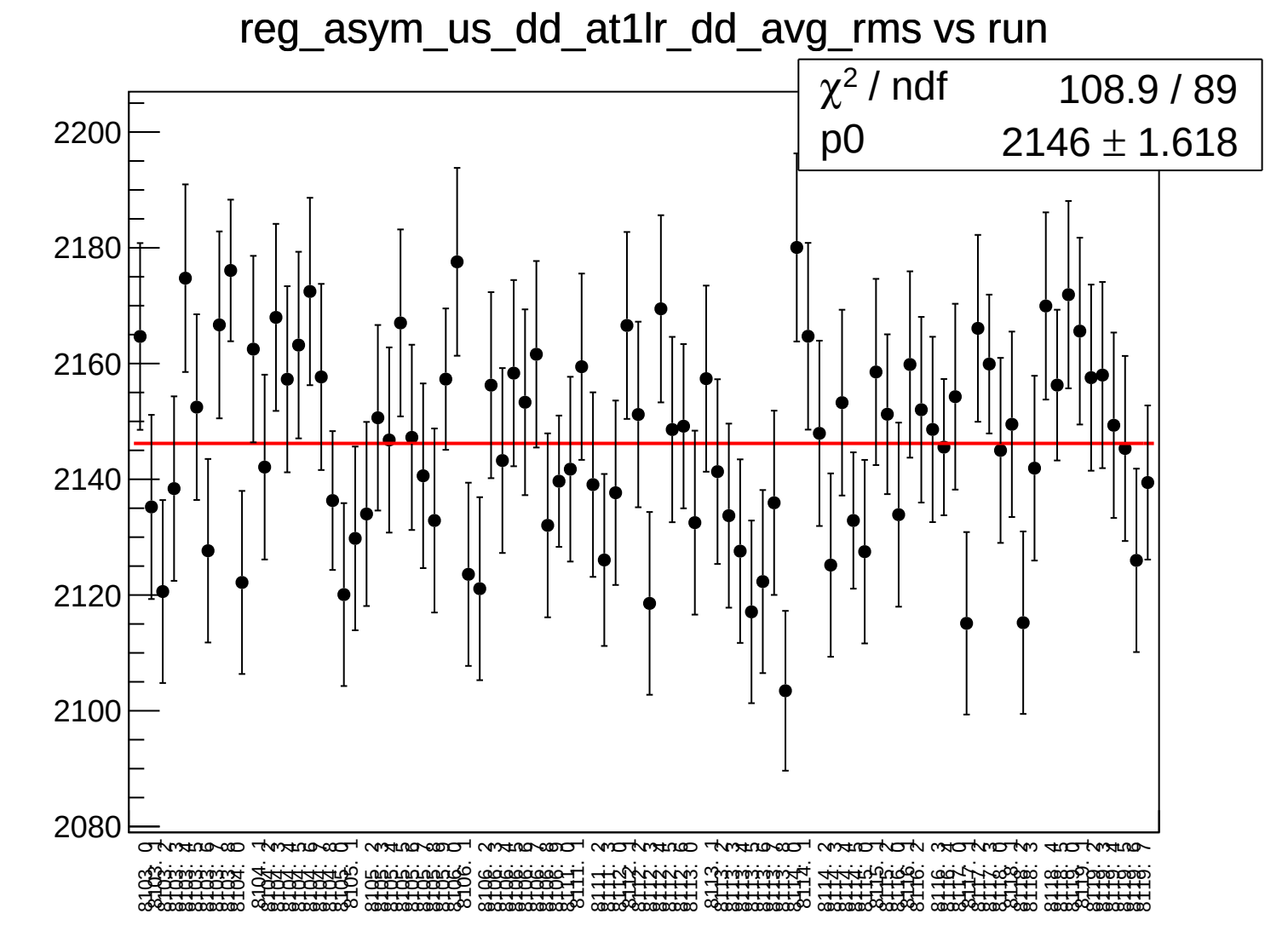

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.3 / 89
p0 1.051e−13 ± 2.281e−13
pull
Entries 90
Mean −469.5
Std Dev 0

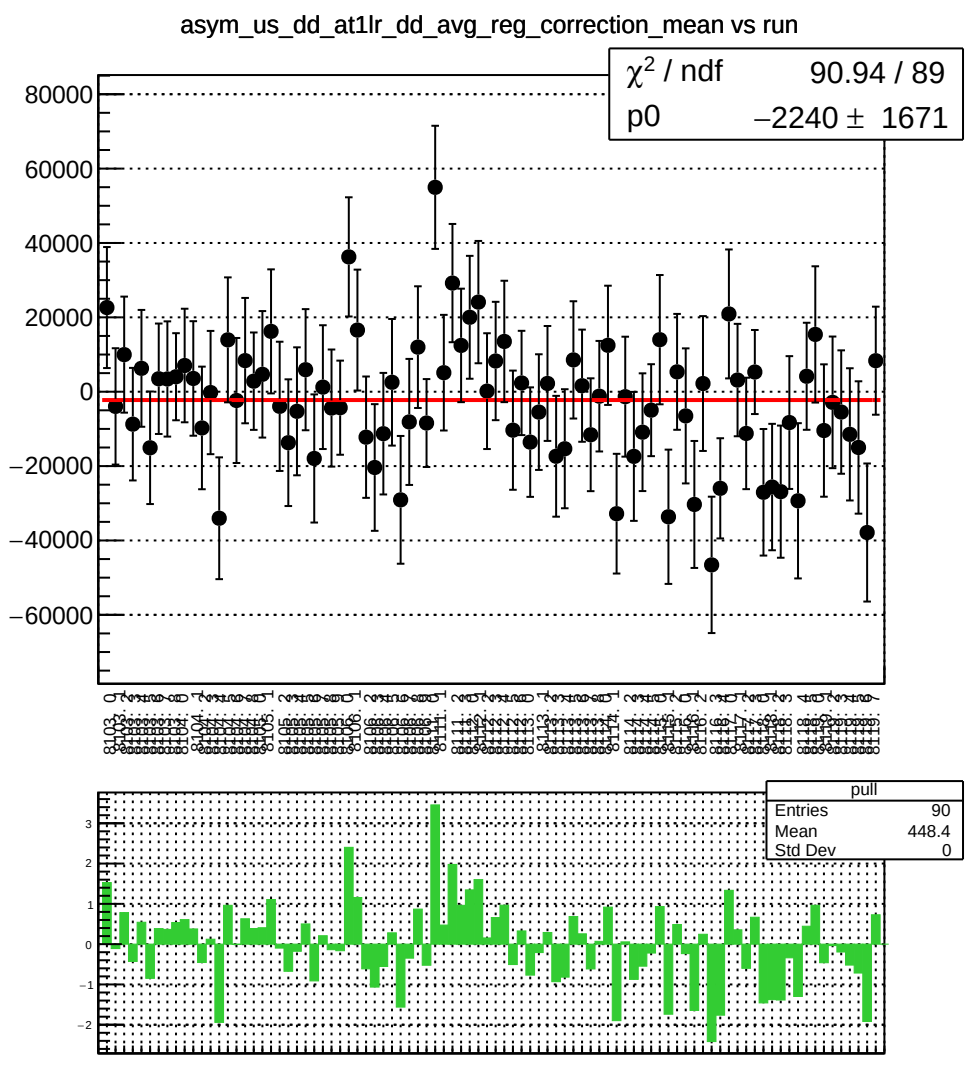

pull1D
Entries 90
Mean −0.003034
Std Dev 0.8452

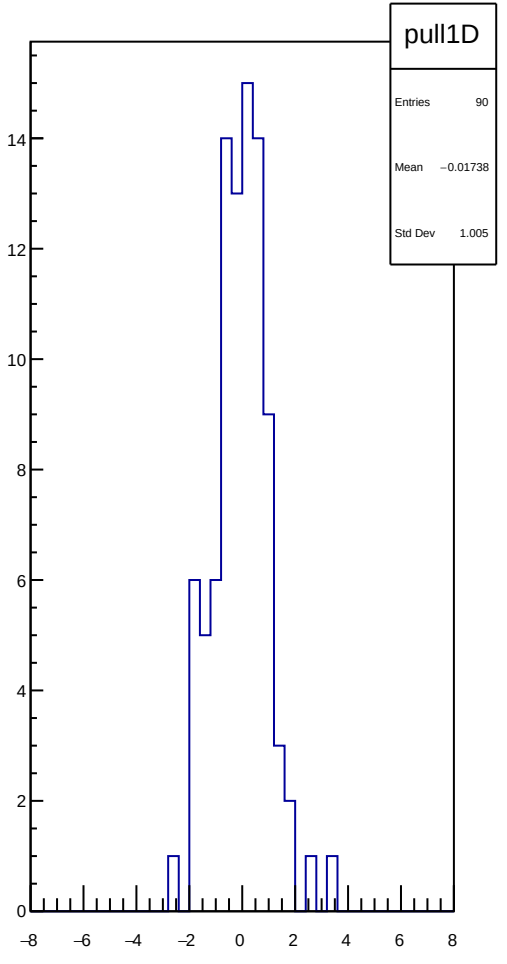

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.112e+05 / 89
p0 1.728e−10 ± 1.613e−13
1.2
1
0.8
0.6
0.4
0.2

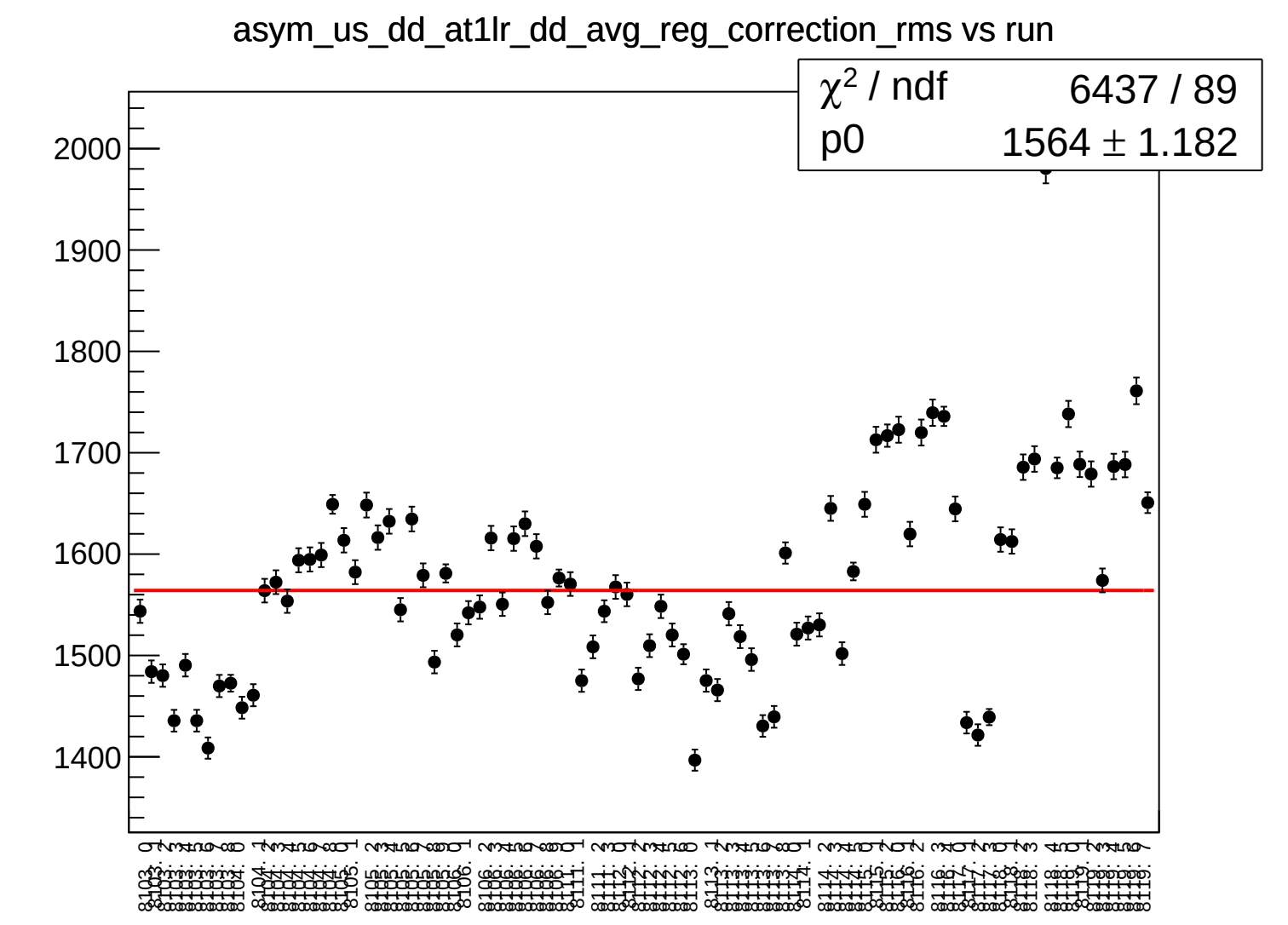

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 85.89 / 89
p0 −37.71± 2289
pull
Entries 90
Mean −276.8
Std Dev 0

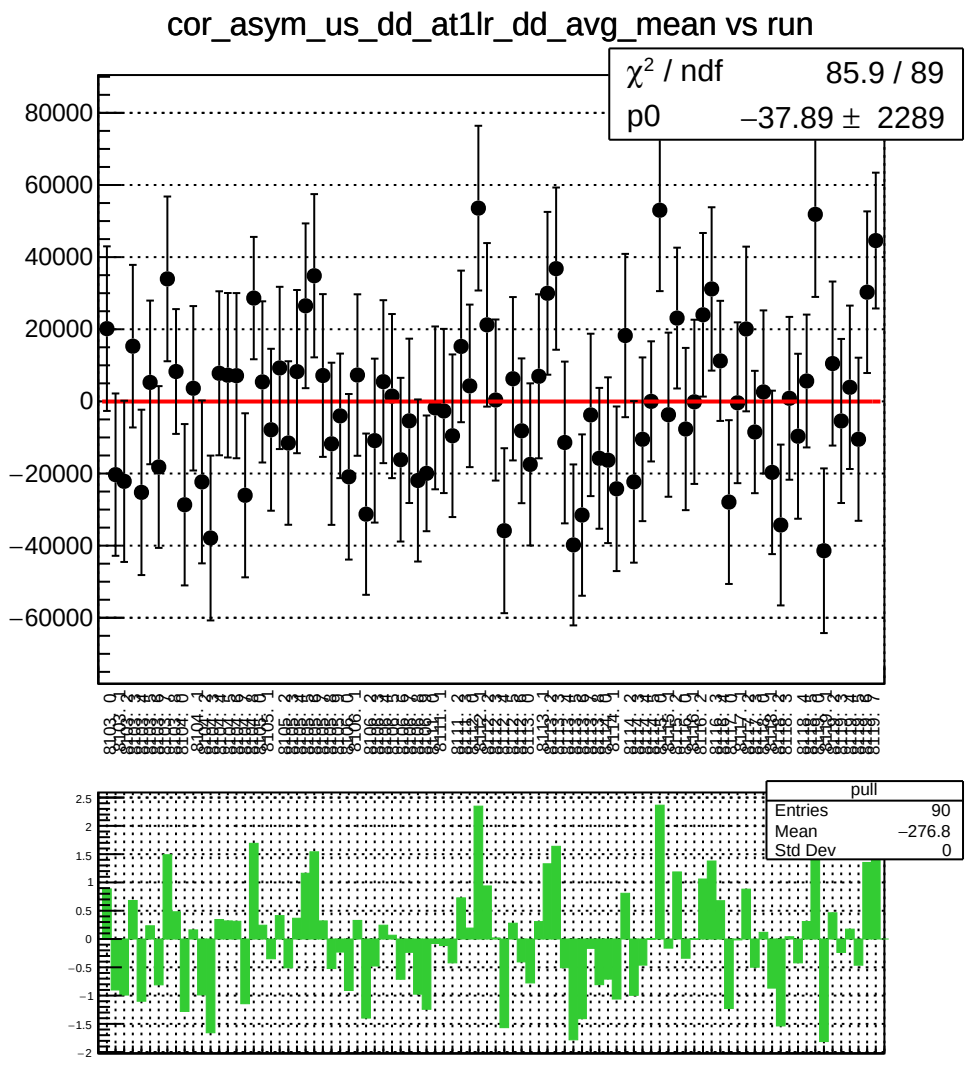

pull1D
Entries 90
Mean −0.008204
Std Dev 0.9769

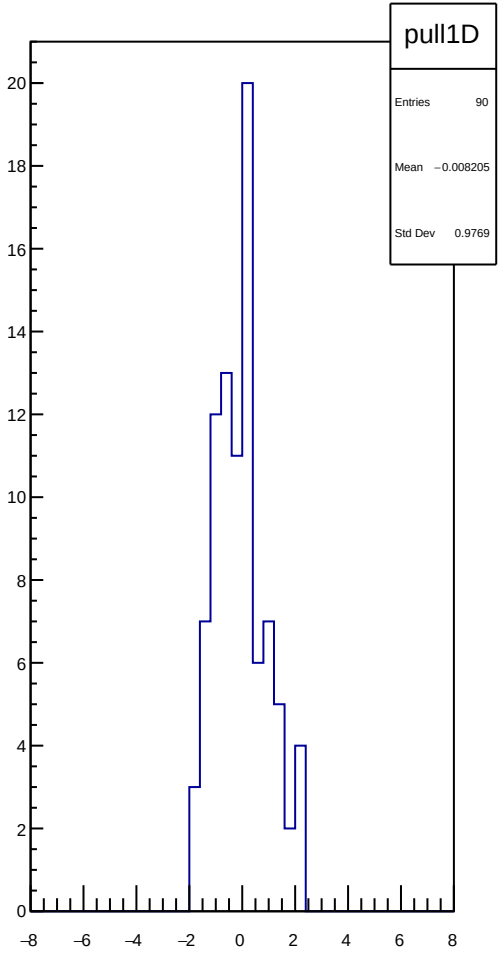

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 108.9 / 89
p0 2146 ± 1.618
2200
2180
2160
2140
2120
2100
2080

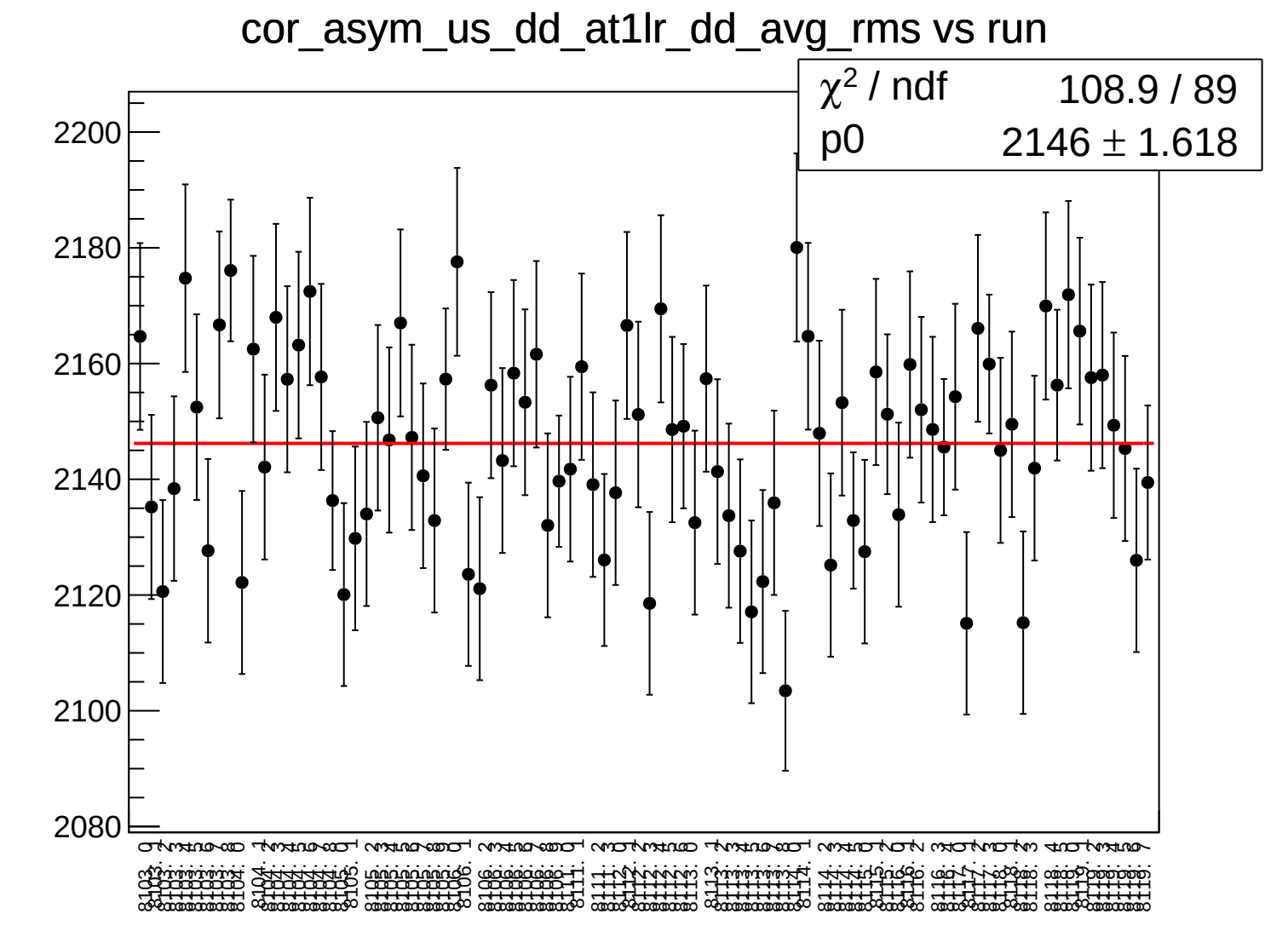

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 90.94 / 89
p0 −2240 ± 1671
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 448.4
Std Dev 0
3
2
1
0
−1
−2

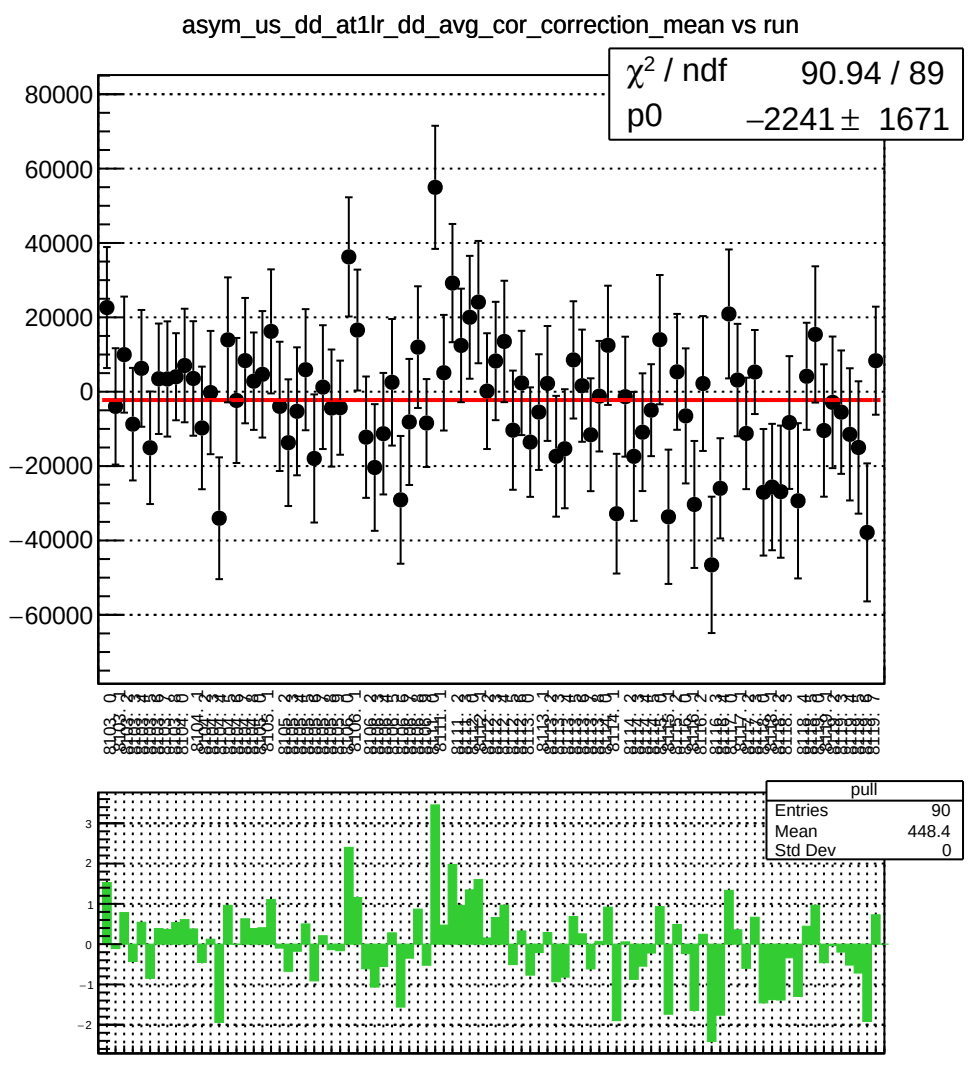

pull1D
Entries 90
Mean −0.01738
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

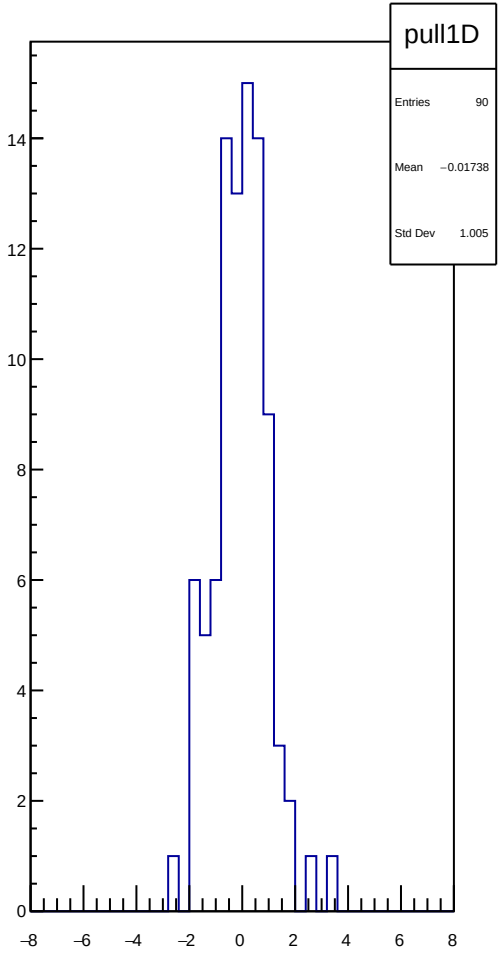

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 6437 / 89
p0 1564 ± 1.182
2000
1900
1800
1700
1600
1500
1400

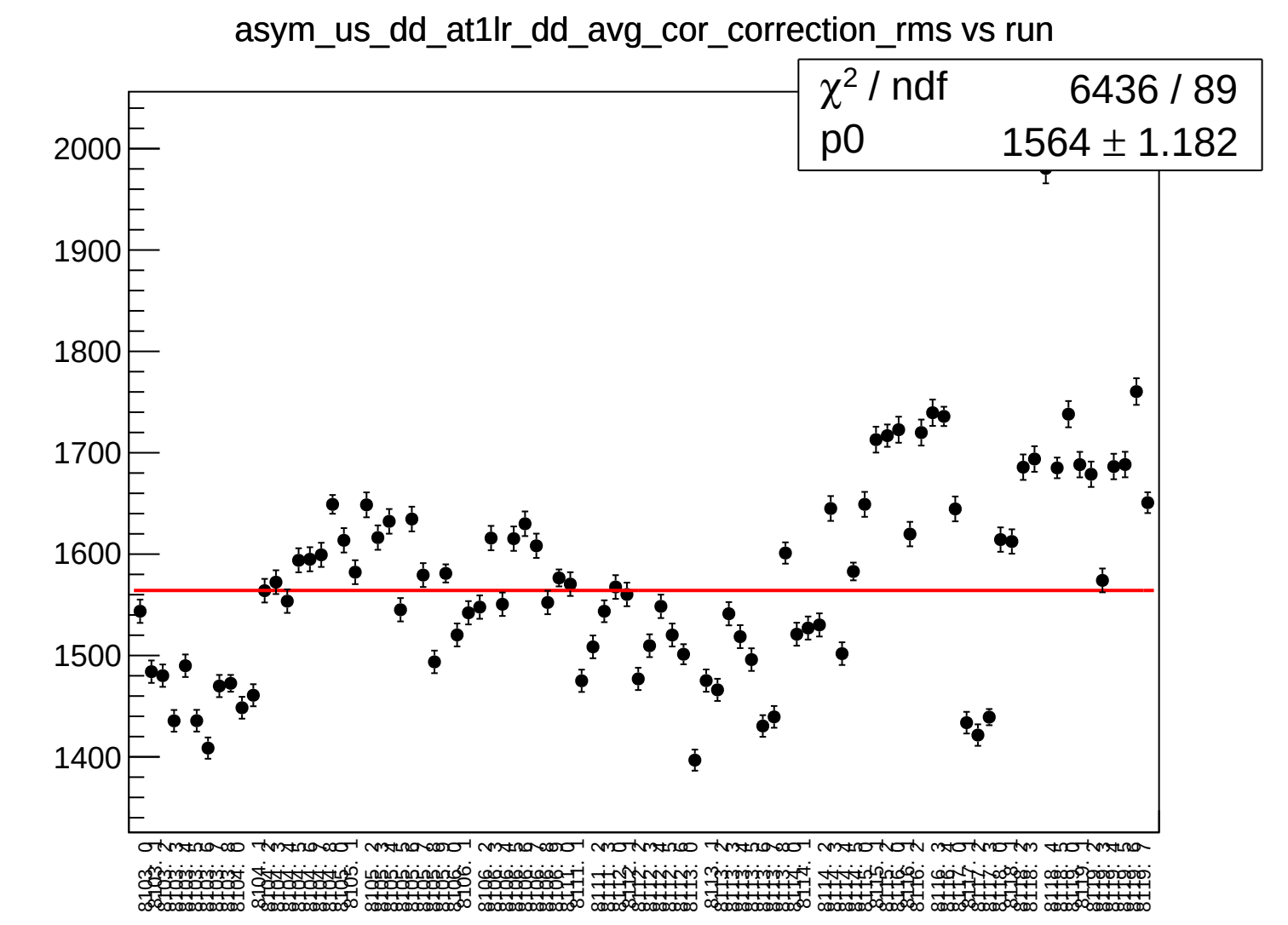

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 85.9 / 89
p0 −37.89 ± 2289
pull
Entries 90
Mean −276.8
Std Dev 0

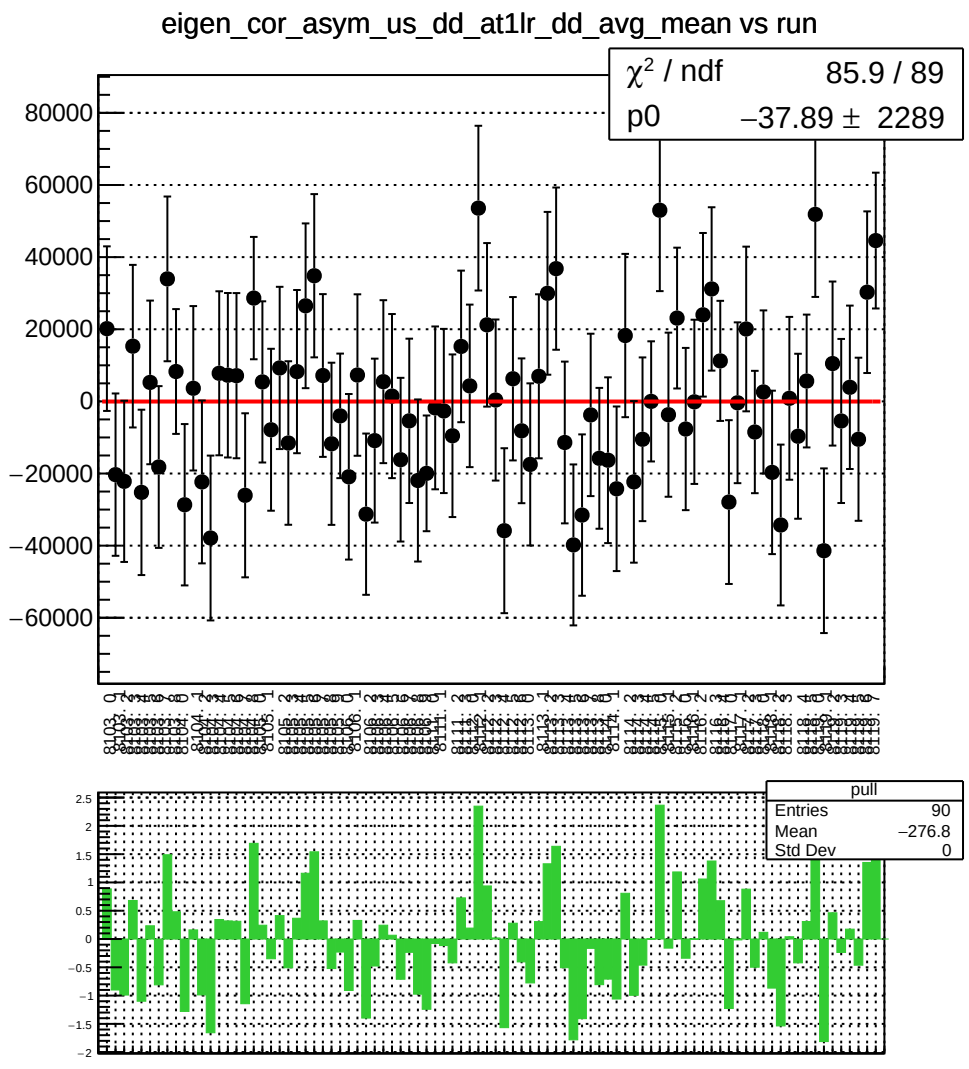

pull1D
Entries 90
Mean −0.008205
Std Dev 0.9769

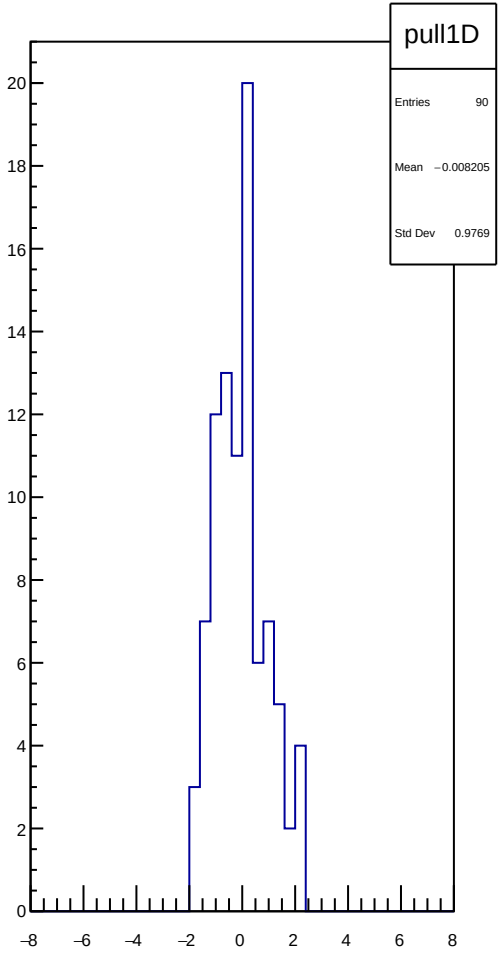

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 108.9 / 89
p0 2146 ± 1.618
2200
2180
2160
2140
2120
2100
2080

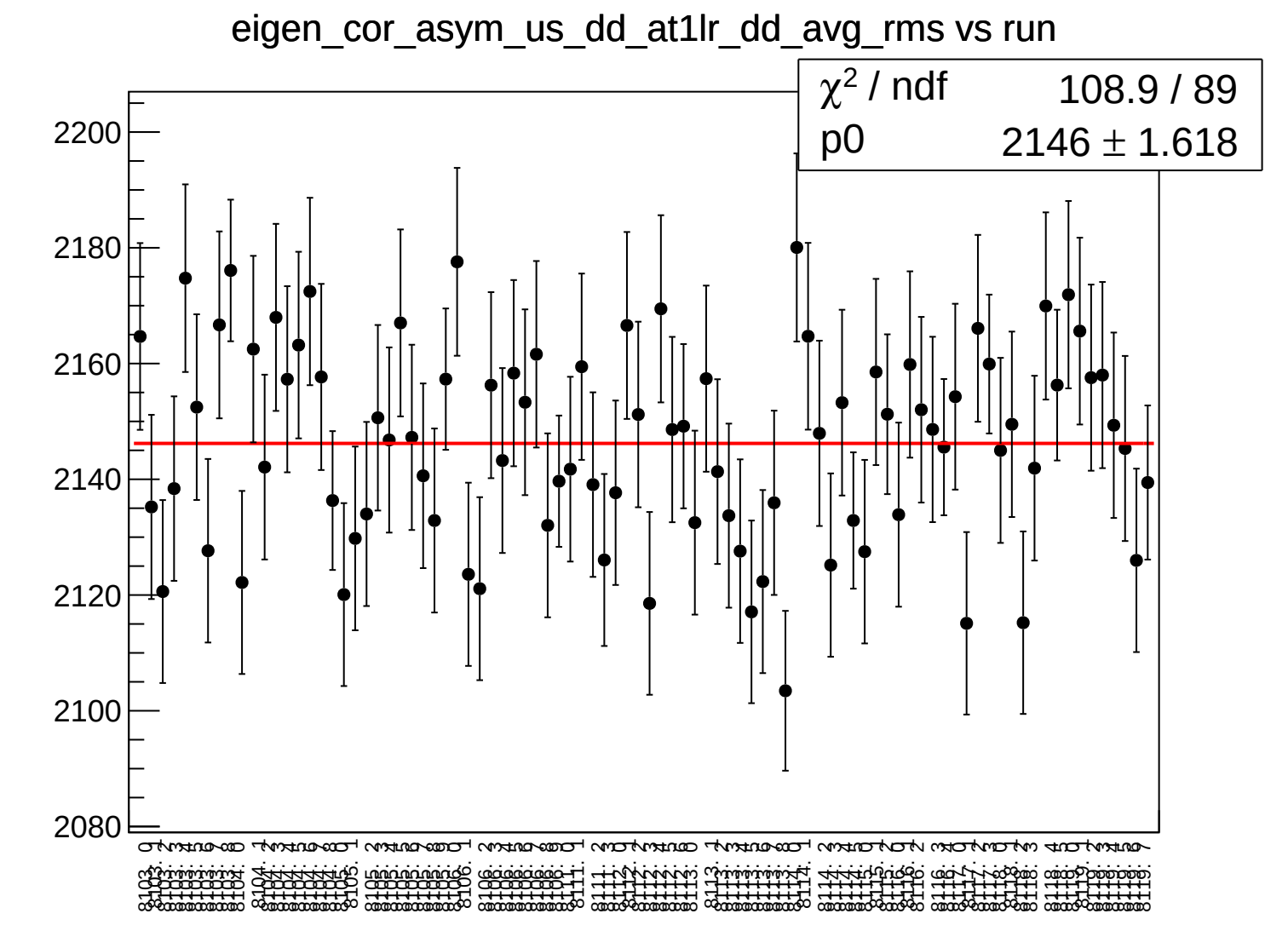

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 90.94 / 89
p0 −2241 ± 1671
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 448.4
Std Dev 0
3
2
1
0
−1
−2

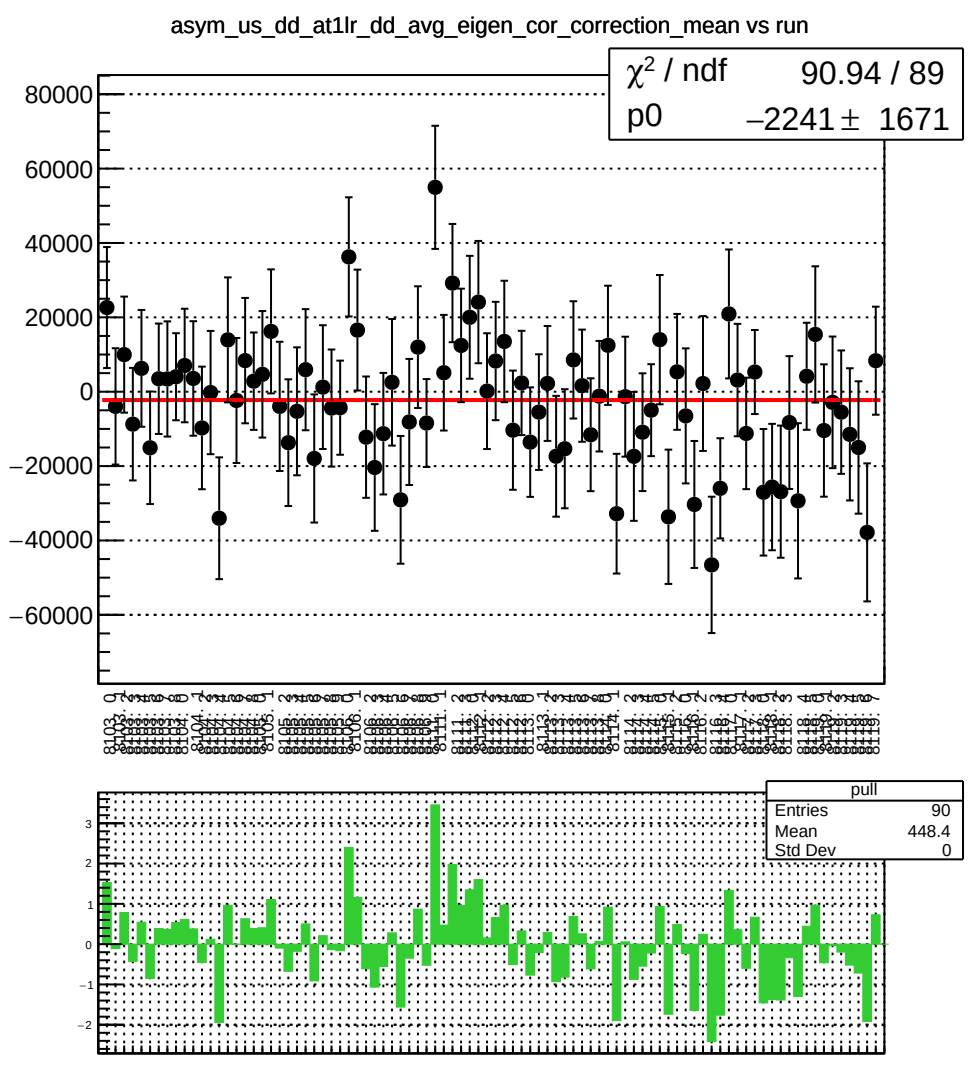

pull1D
Entries 90
Mean −0.01738
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

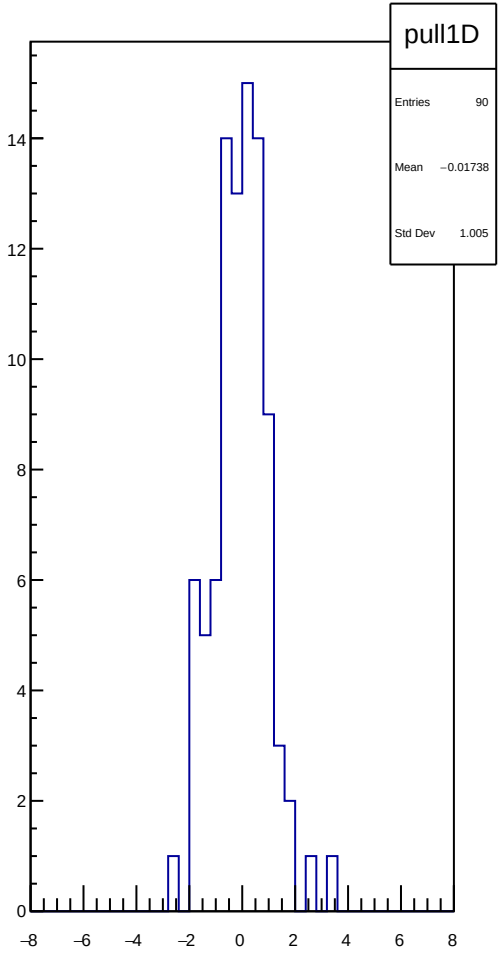

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6436 / 89
p0 1564 ± 1.182
2000
1900
1800
1700
1600
1500
1400

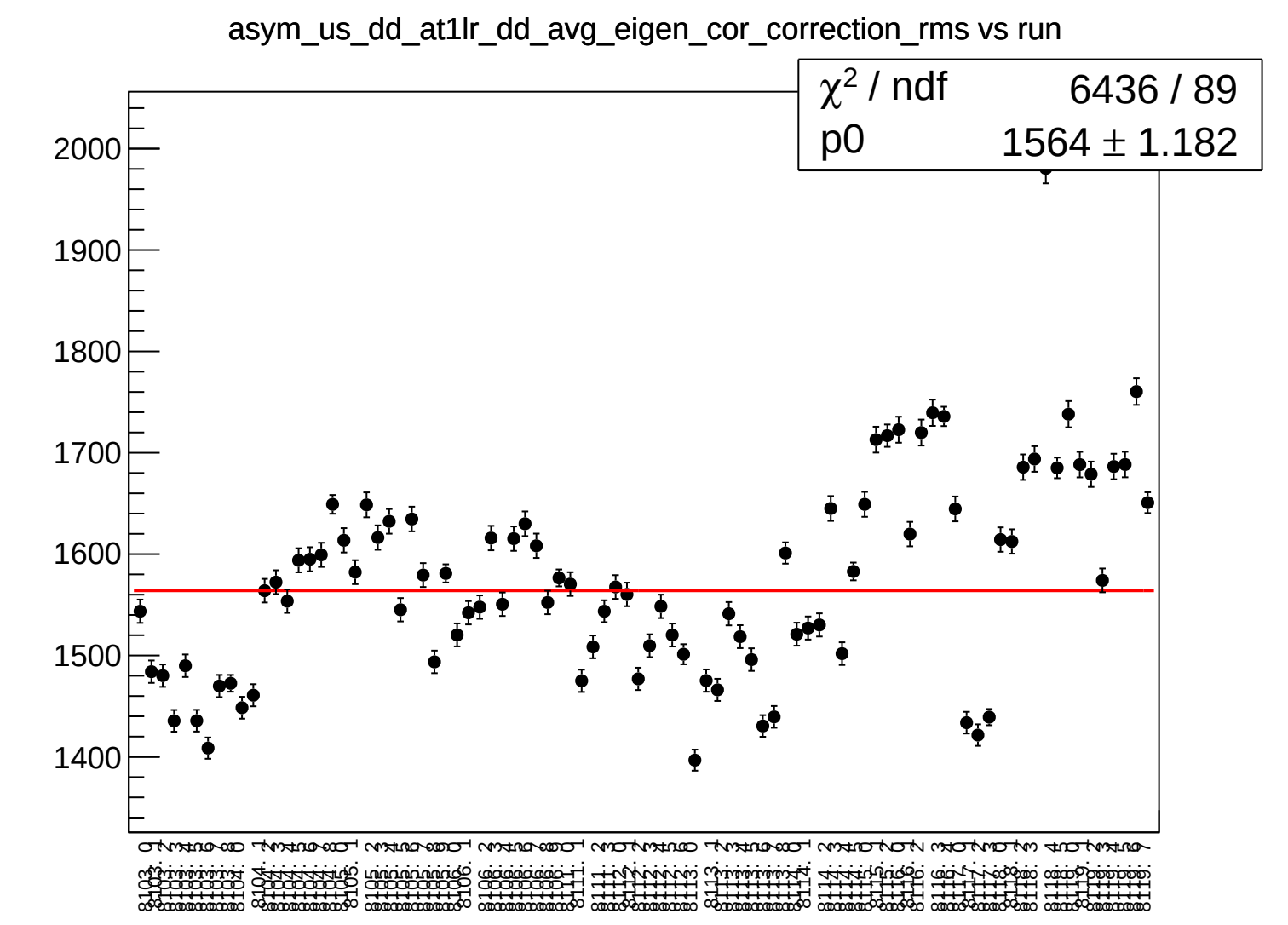

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 85.9 / 89
p0 −37.89 ± 2289
pull
Entries 90
Mean −276.8
Std Dev 0

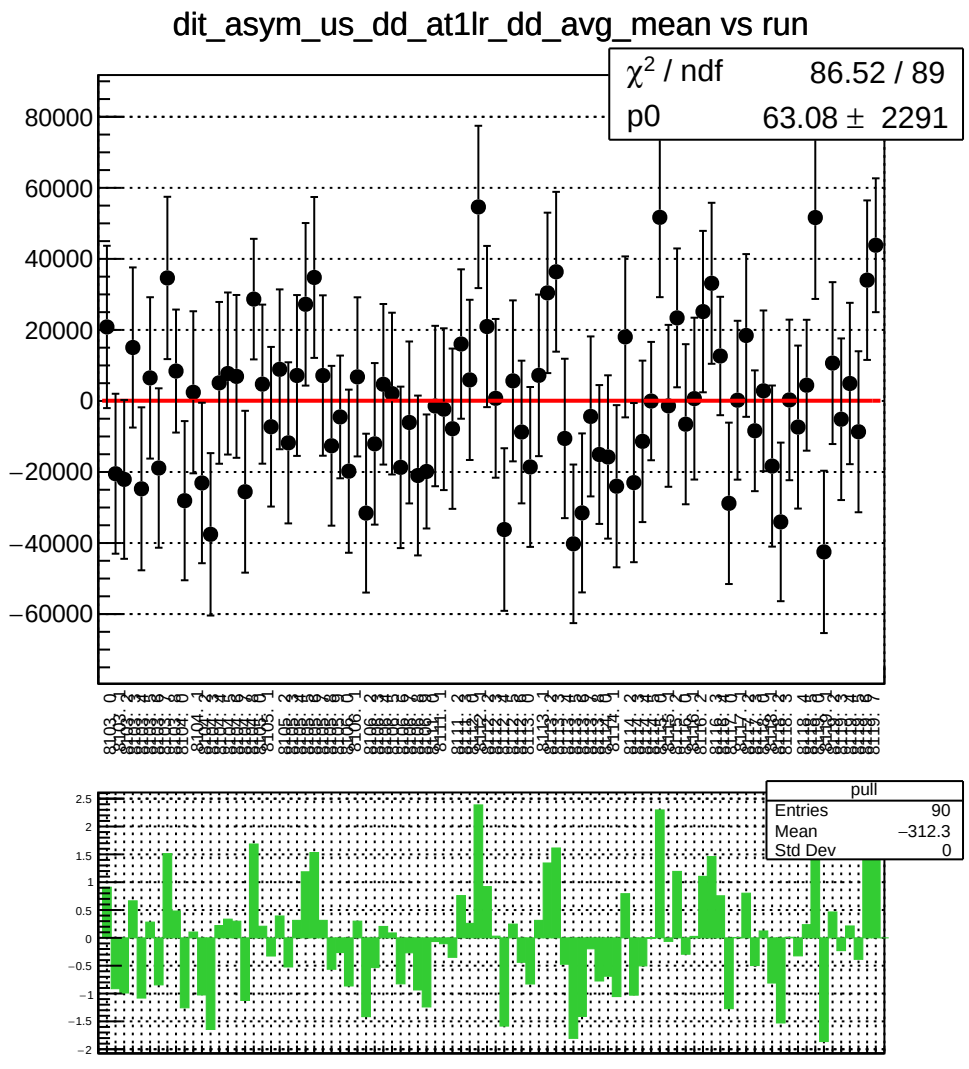

pull1D
Entries 90
Mean −0.008205
Std Dev 0.9769

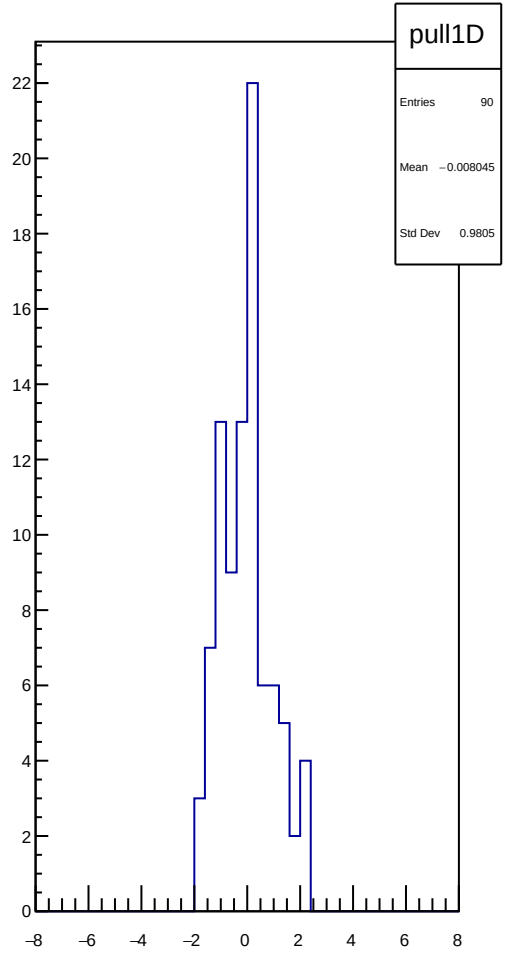

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 108.9 / 89
p0 2146 ± 1.618
2200
2180
2160
2140
2120
2100
2080

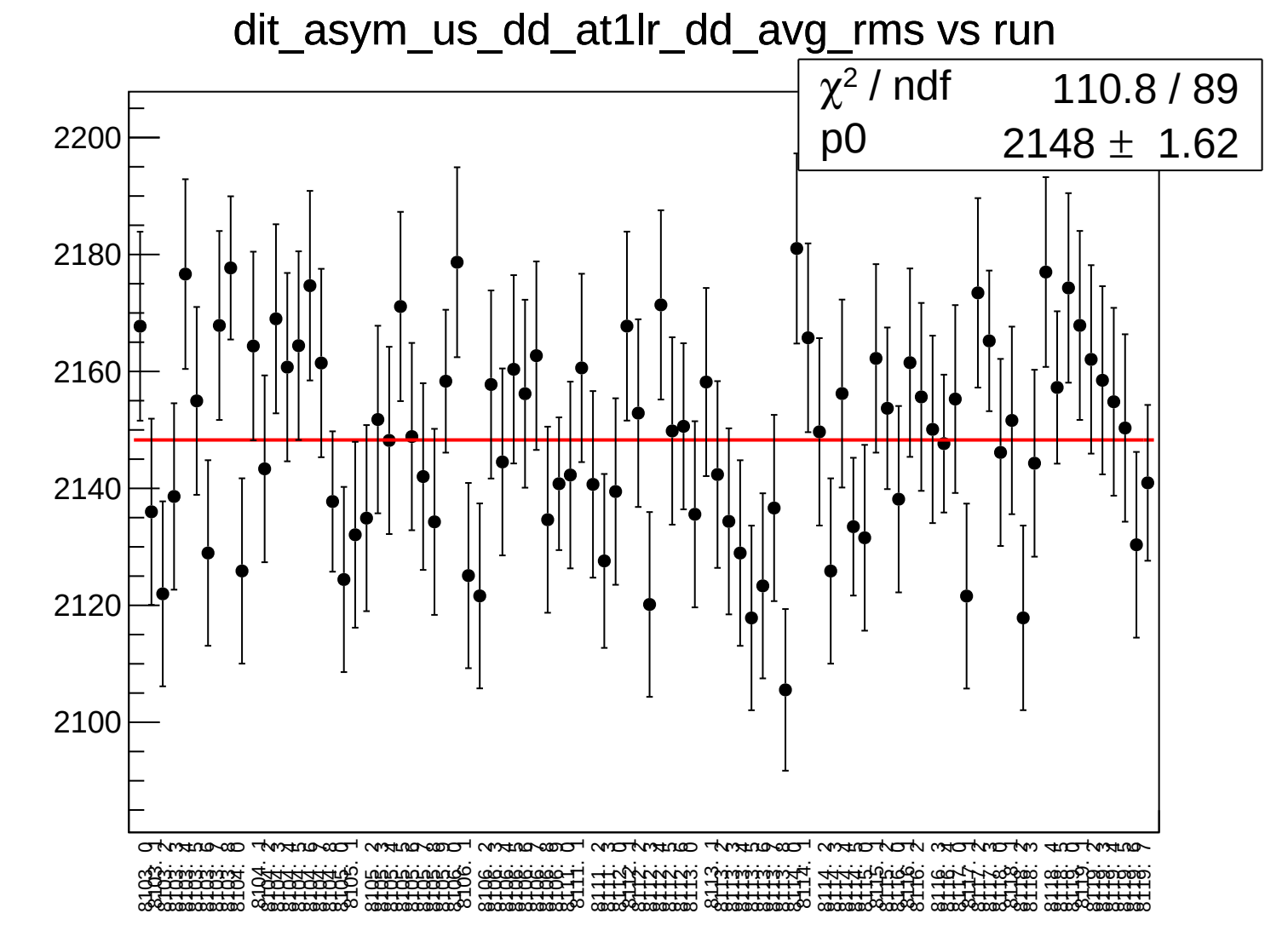

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.94 / 89
p0 −2241 ± 1671
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 448.4
Std Dev 0
3
2
1
0
−1
−2

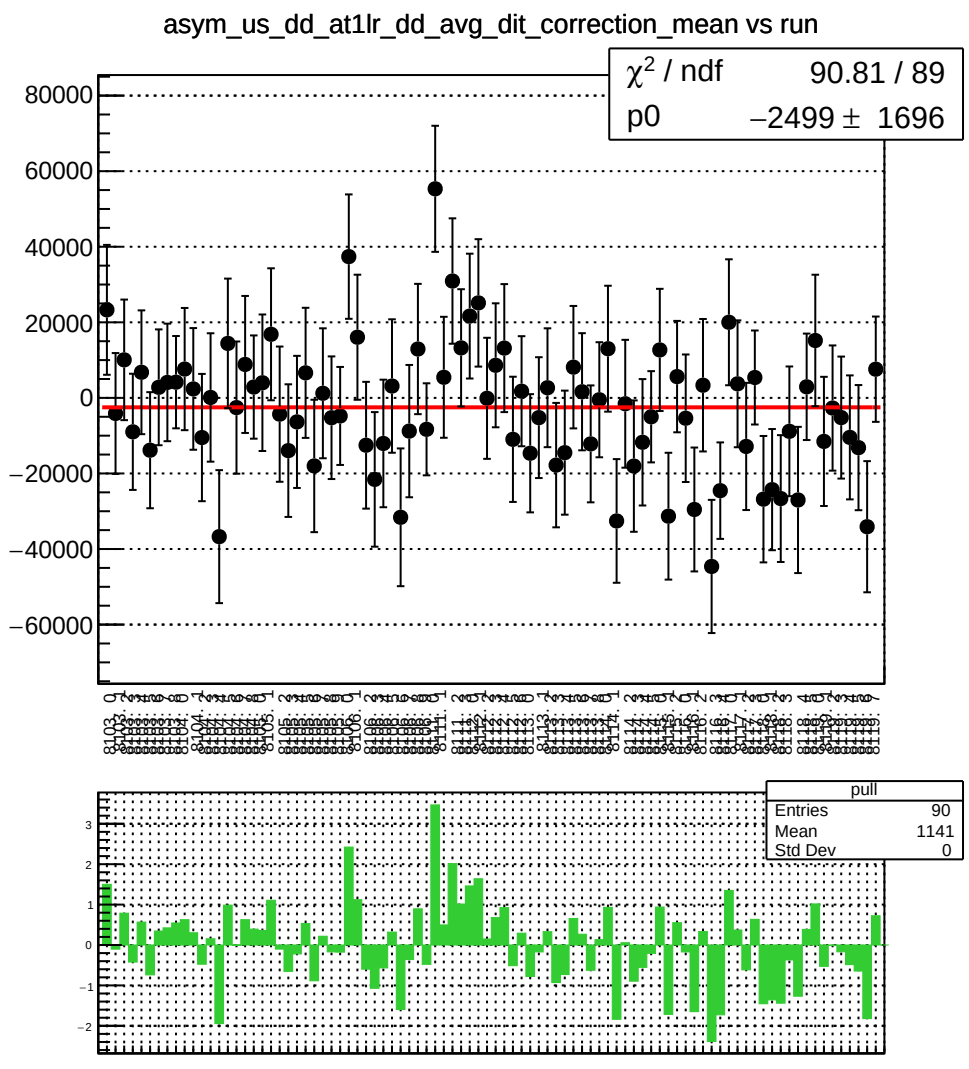

pull1D
Entries 90
Mean −0.01738
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

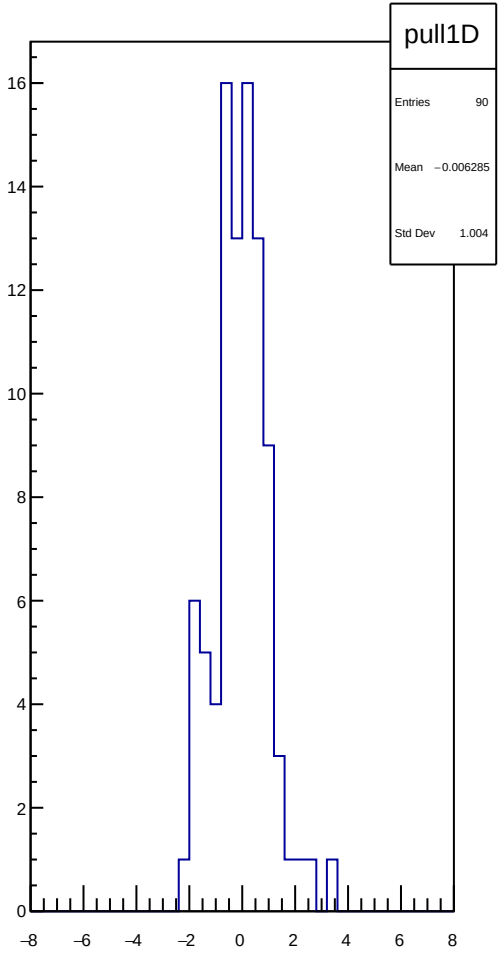

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6436 / 89
p0 1564 ± 1.182
2000
1900
1800
1700
1600
1500
1400

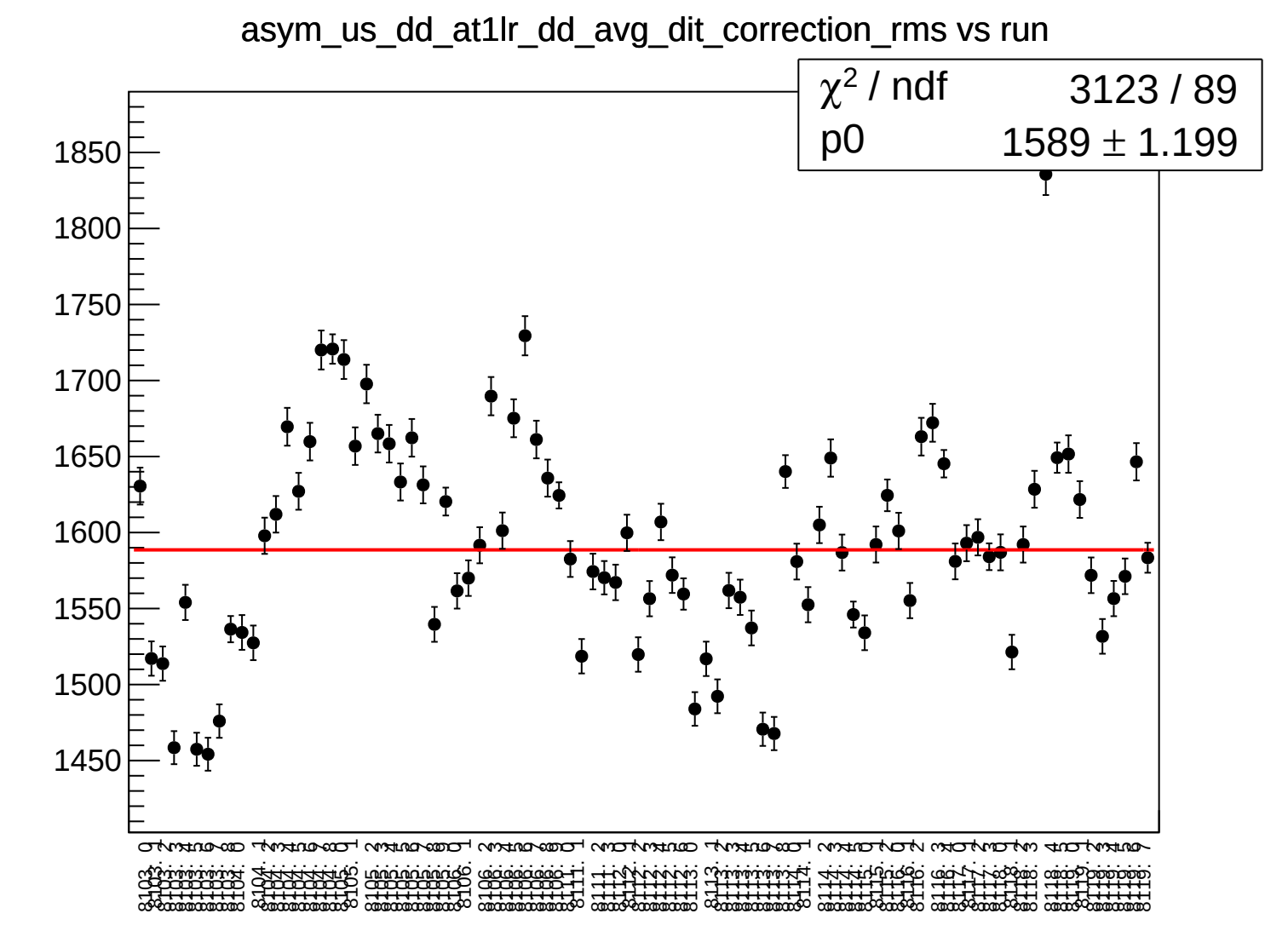

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 86.52 / 89
p0 63.08 ± 2291
pull
Entries 90
Mean −312.3
Std Dev 0

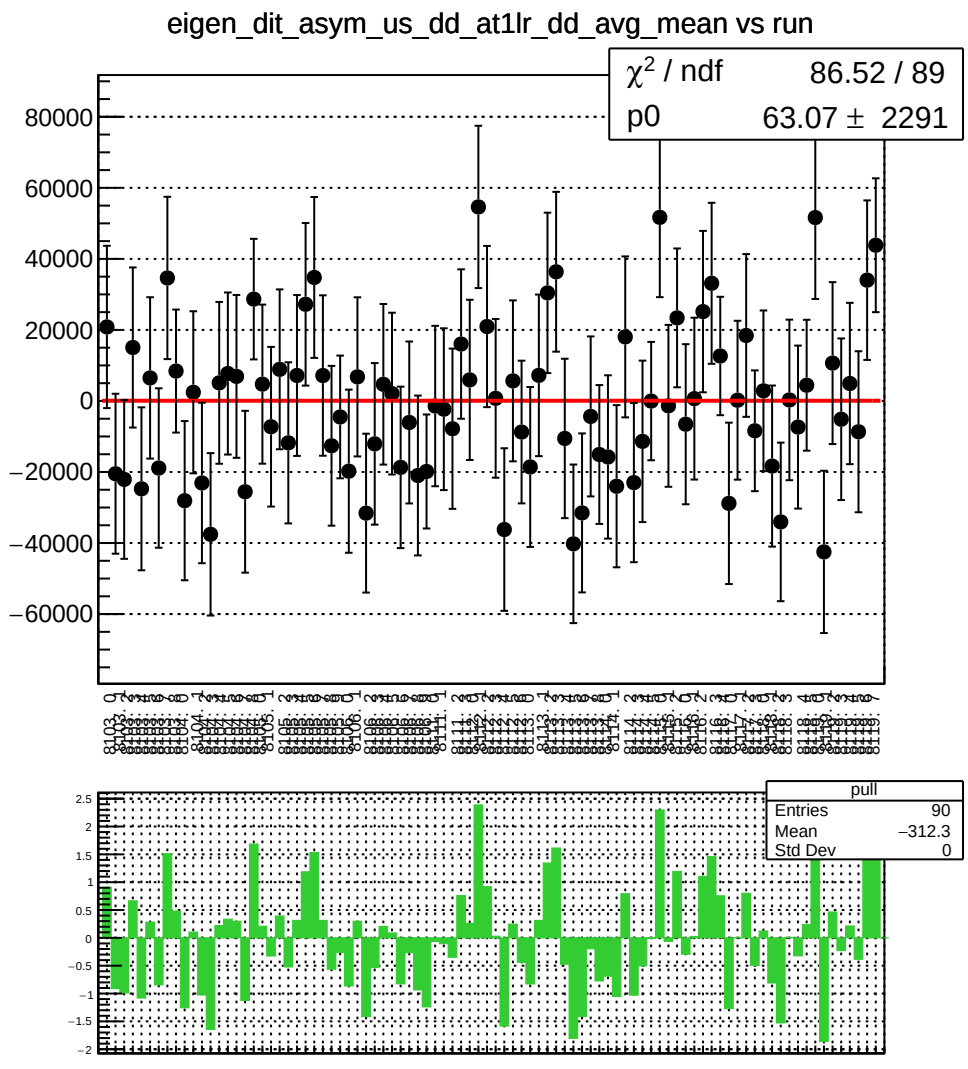

pull1D
Entries 90
Mean −0.008045
Std Dev 0.9805

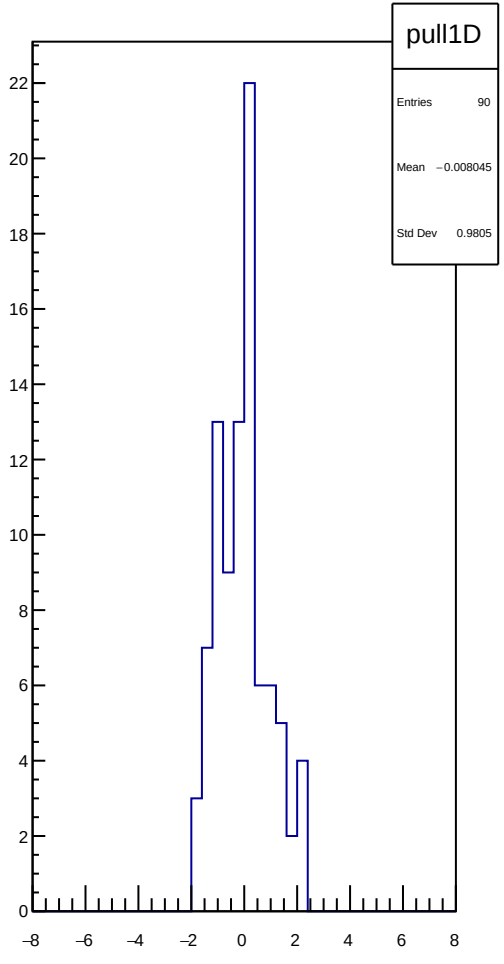

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 110.8 / 89
p0 2148 ± 1.62
2200
2180
2160
2140
2120
2100

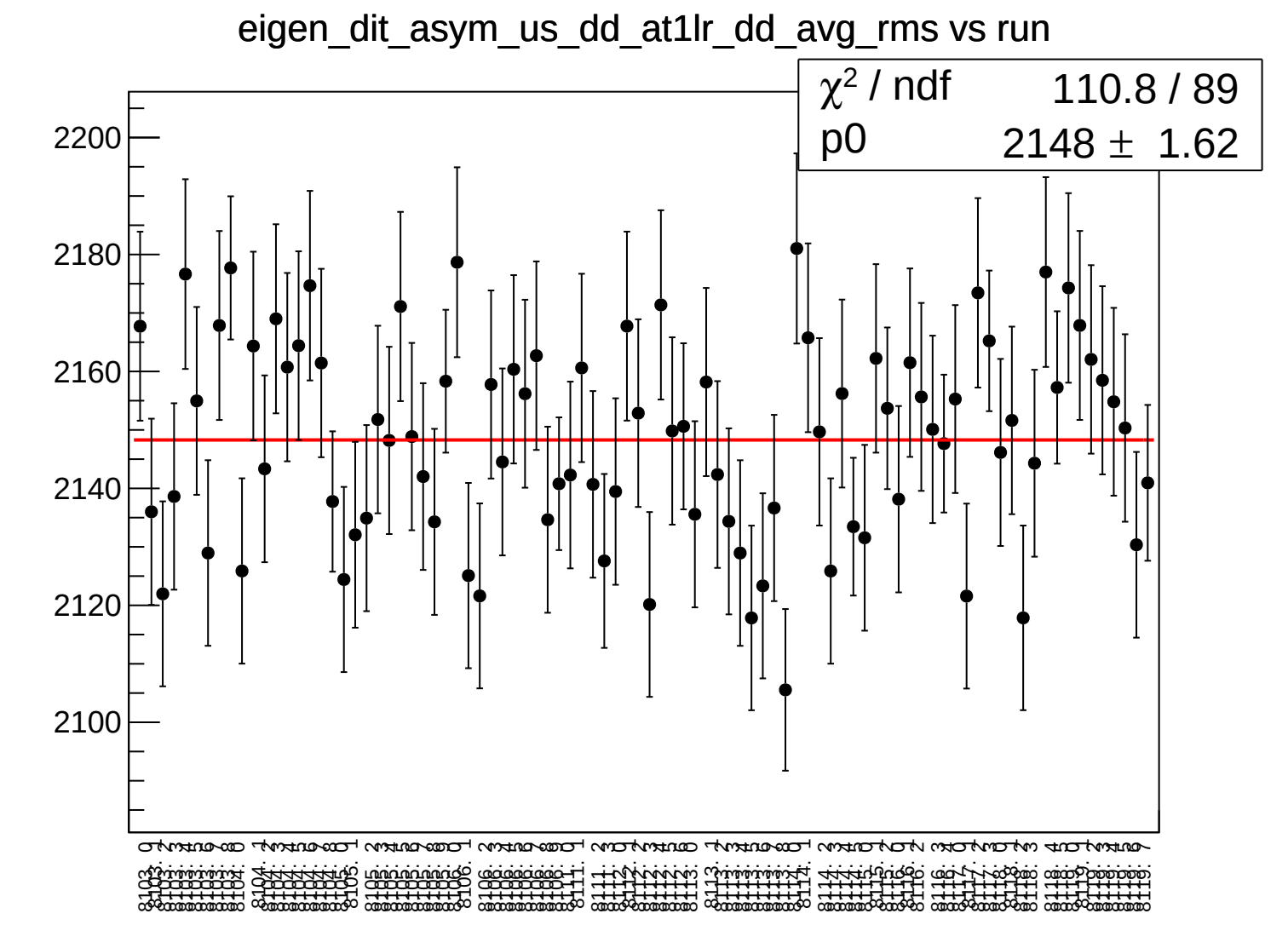

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 90.81 / 89
p0 −2499 ± 1696
pull
Entries 90
Mean 1141
Std Dev 0

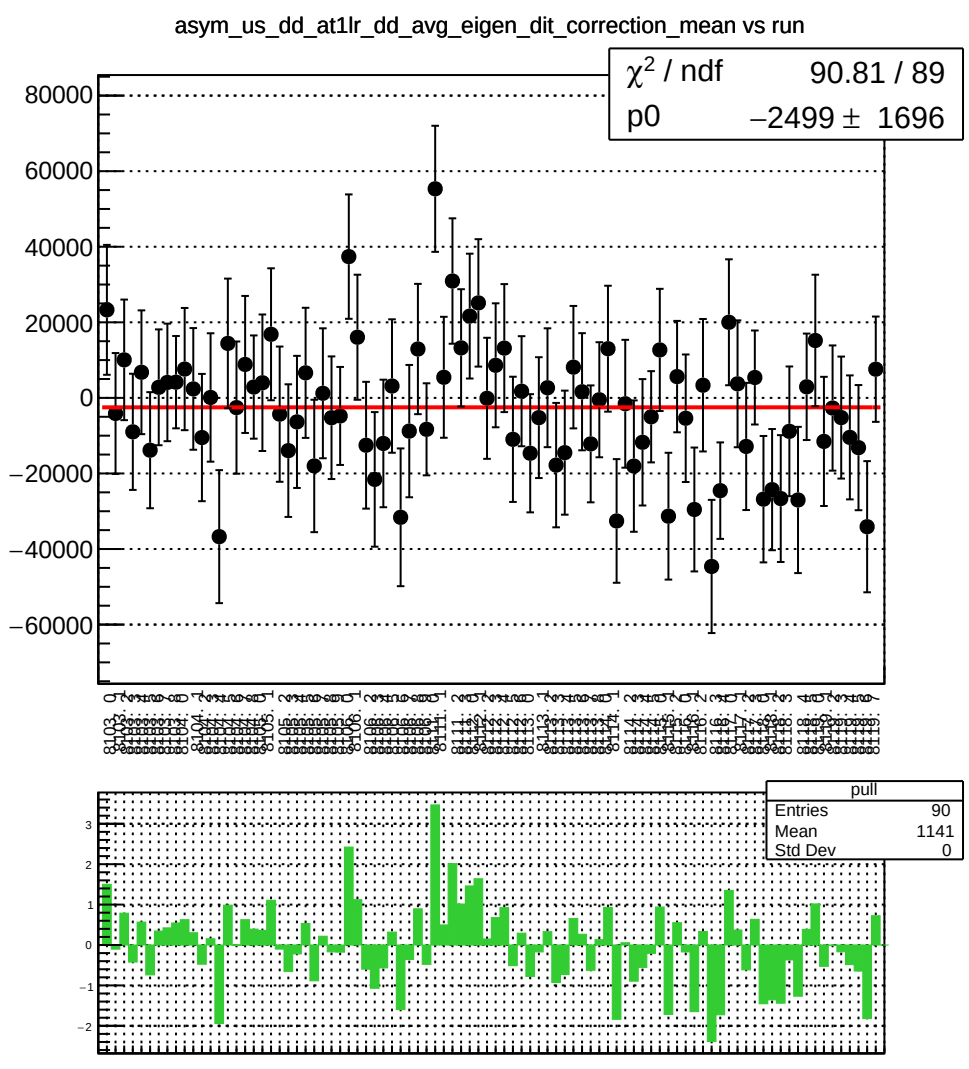

pull1D
Entries 90
Mean −0.006285
Std Dev 1.004

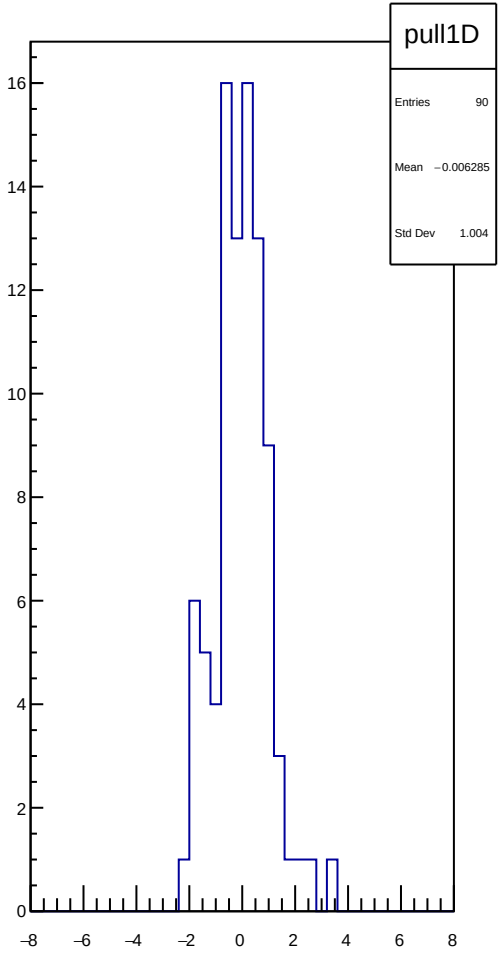

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3123 / 89
p0 1589 ± 1.199
1850
1800
1750
1700
1650
1600
1550
1500
1450

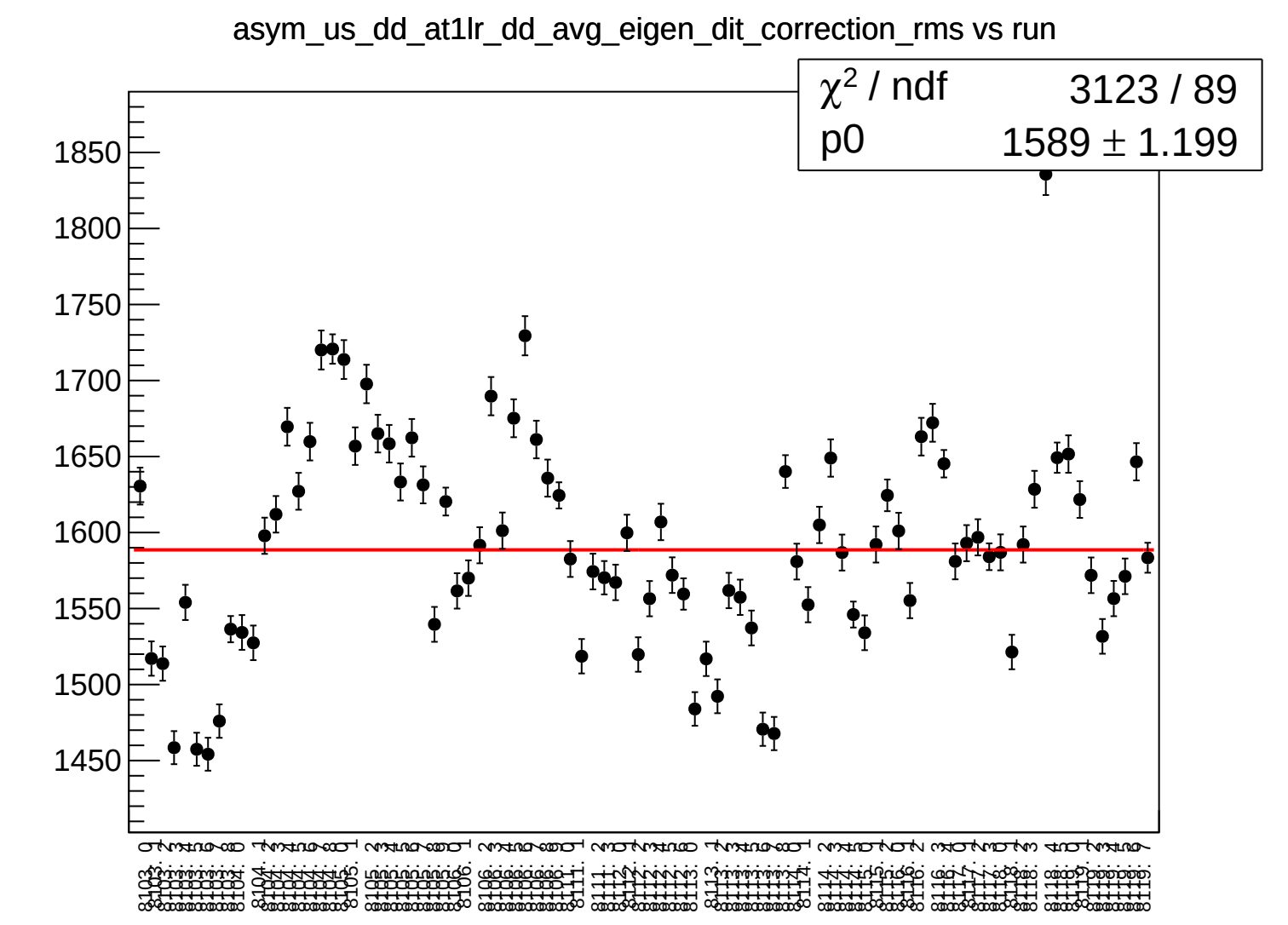

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 86.52 / 89
p0 63.07 ± 2291
pull
Entries 90
Mean −312.3
Std Dev 0

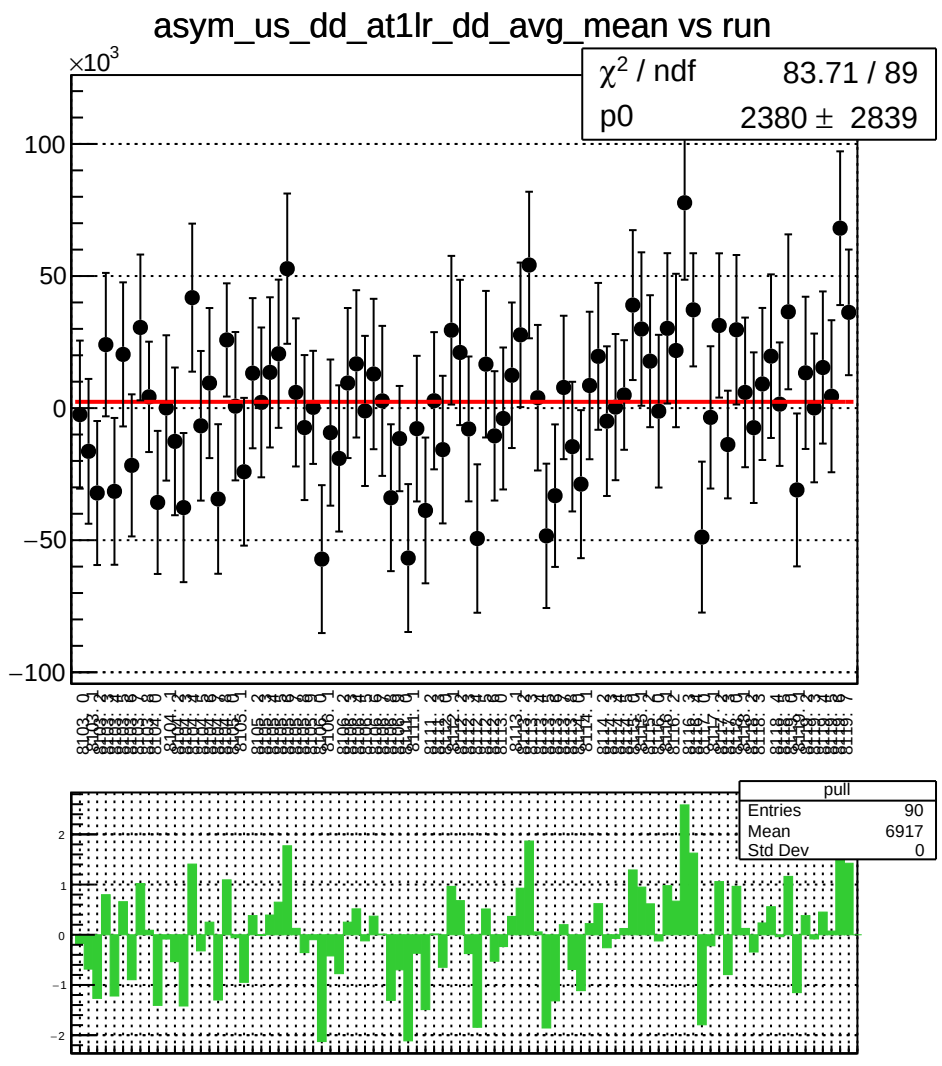

pull1D
Entries 90
Mean −0.008045
Std Dev 0.9805

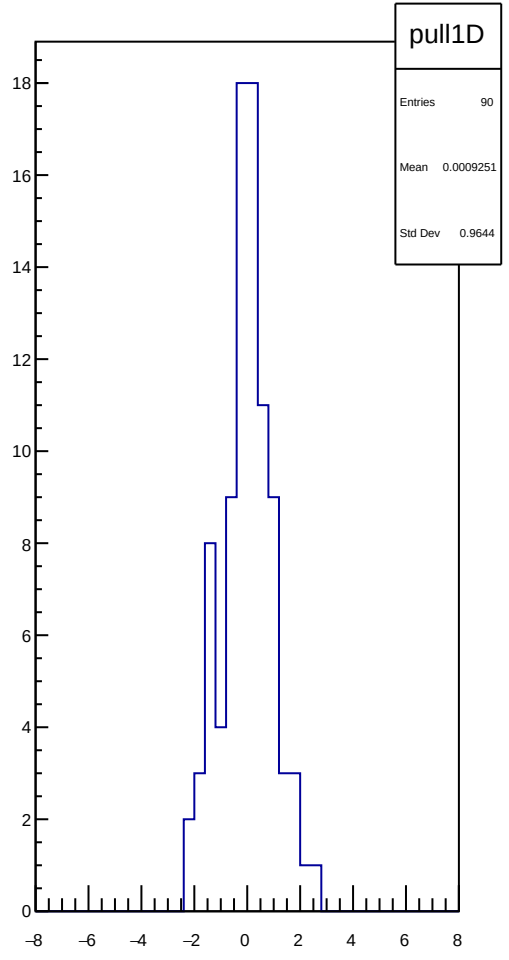

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 110.8 / 89
p0 2148 ± 1.62
2200
2180
2160
2140
2120
2100

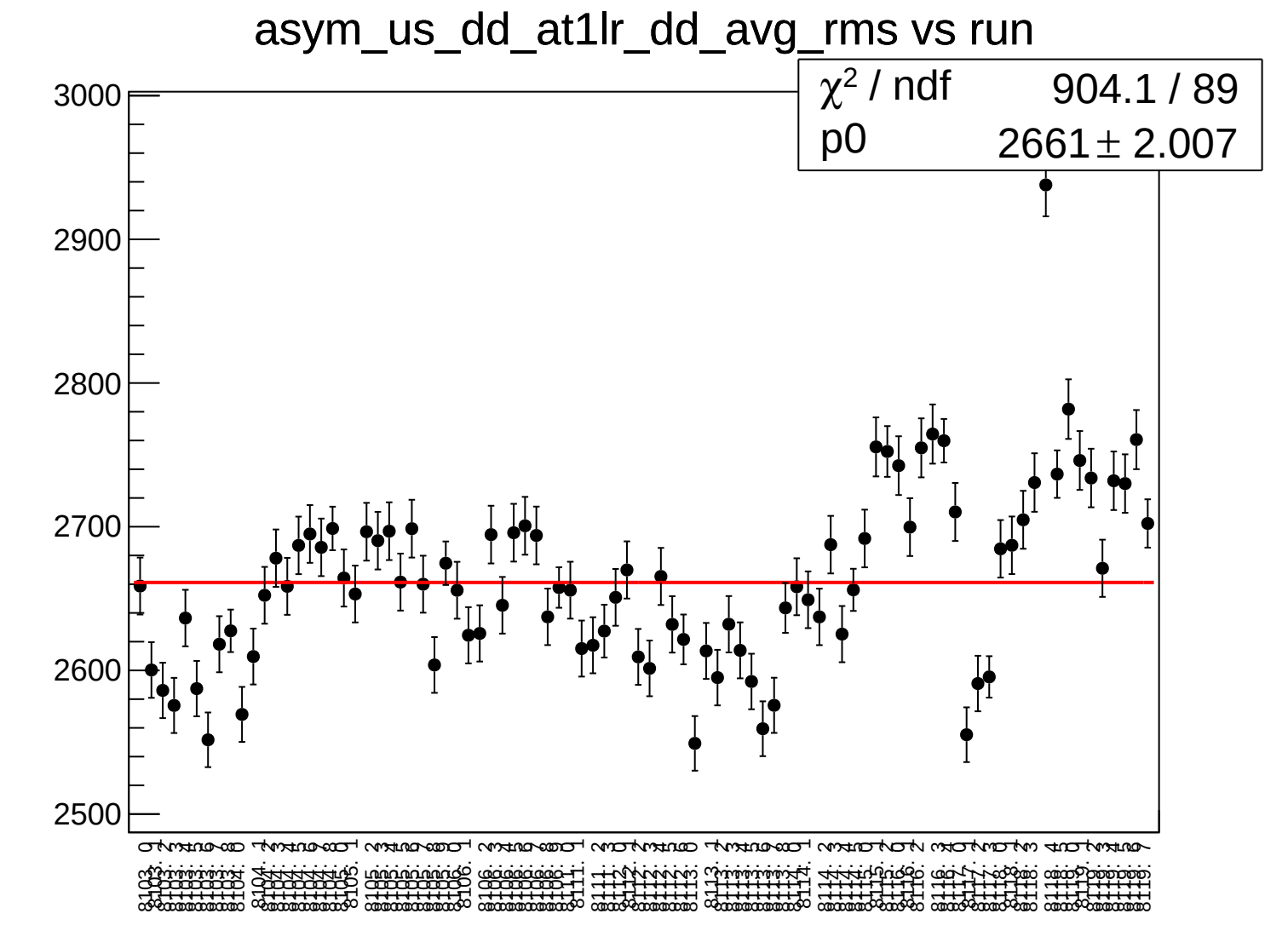

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.81 / 89
p0 −2499 ± 1696
pull
Entries 90
Mean 1141
Std Dev 0

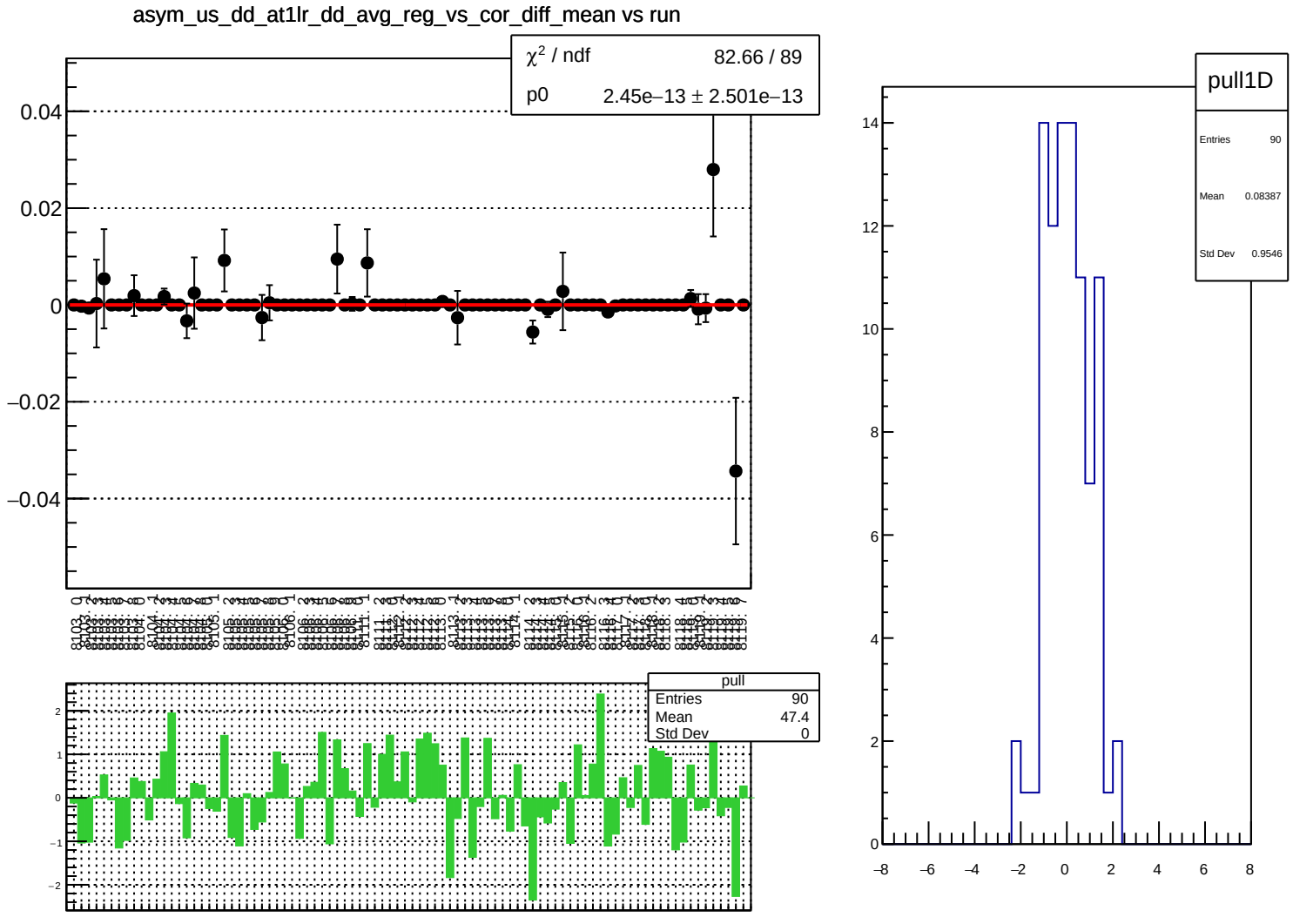

pull1D
Entries 90
Mean −0.006285
Std Dev 1.004

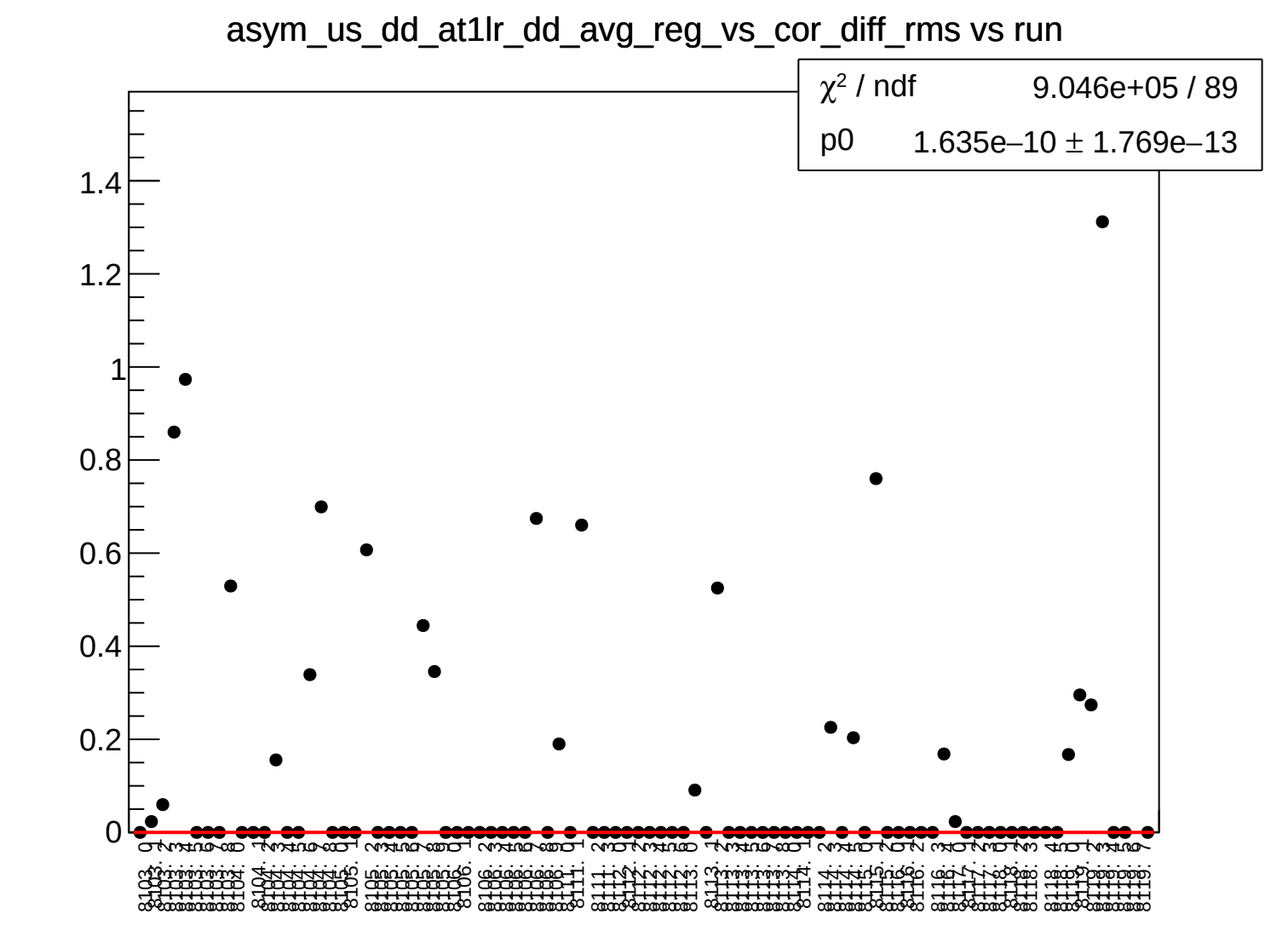

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3123 / 89
p0 1589 ± 1.199
1850
1800
1750
1700
1650
1600
1550
1500
1450

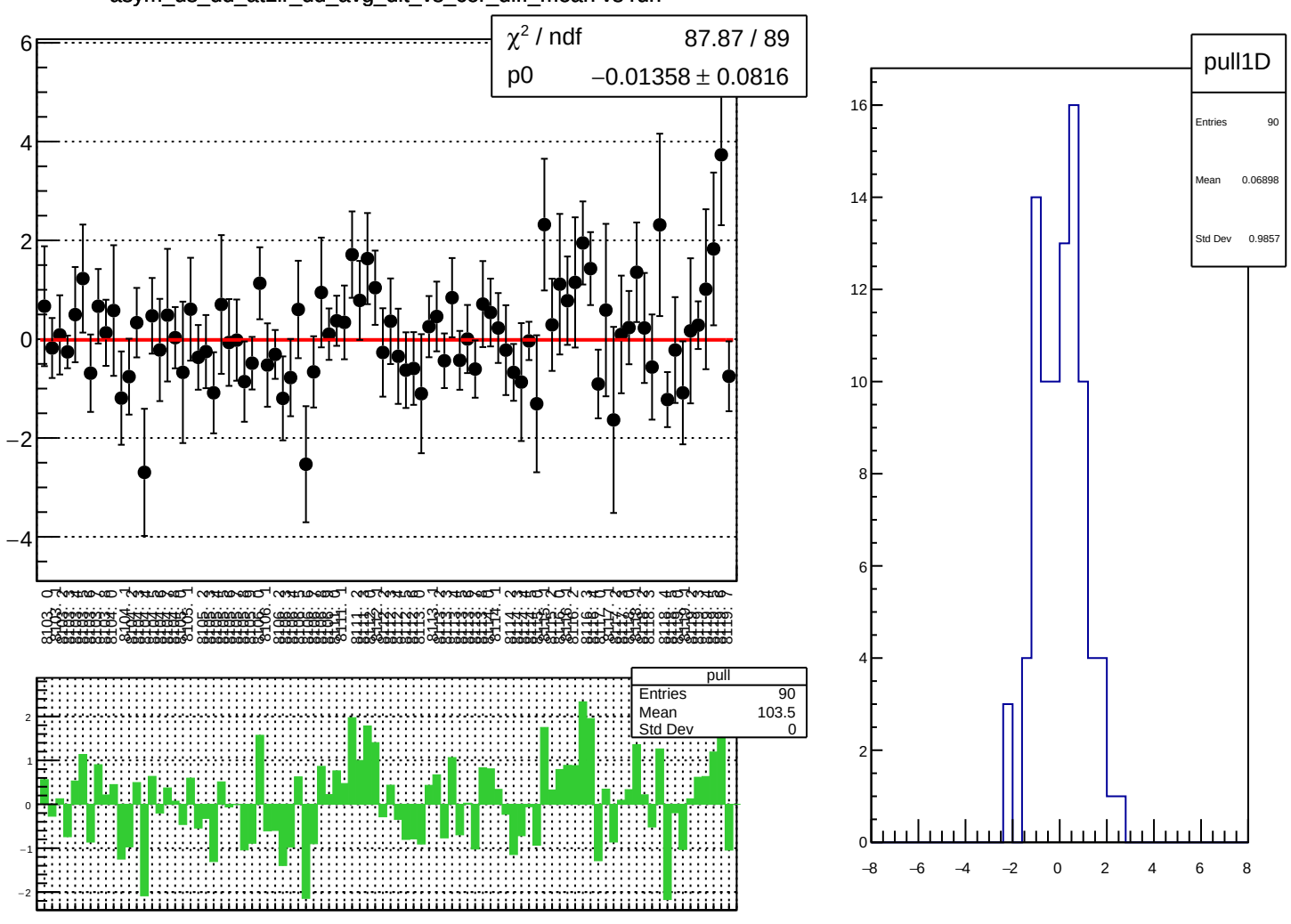

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 83.71 / 89
p0 2380 ± 2839
100
50
0
−50
−100
pull
Entries 90
Mean 6917
Std Dev 0
2
1
0
−1
−2

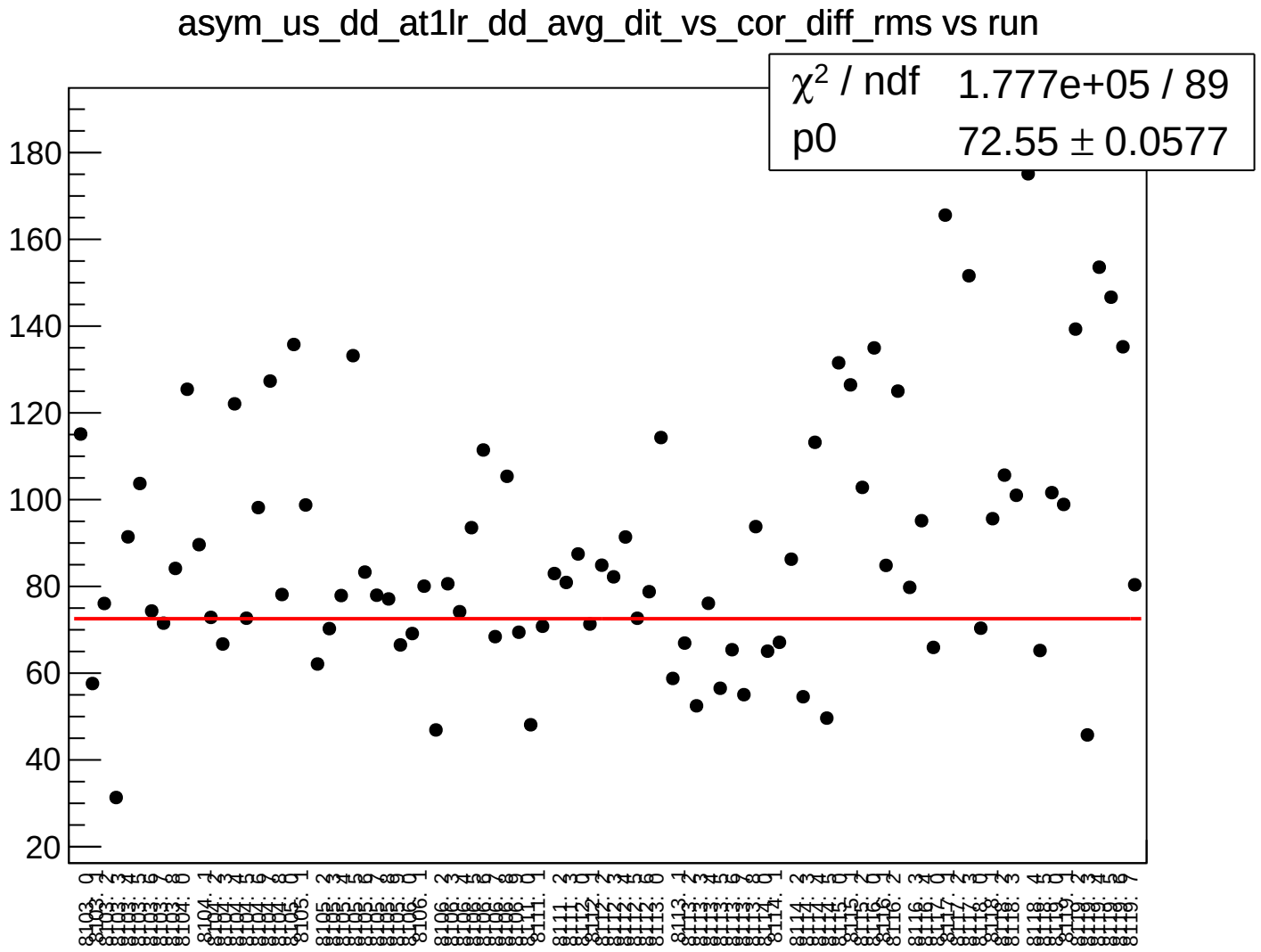

pull1D
Entries 90
Mean 0.0009251
Std Dev 0.9644
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

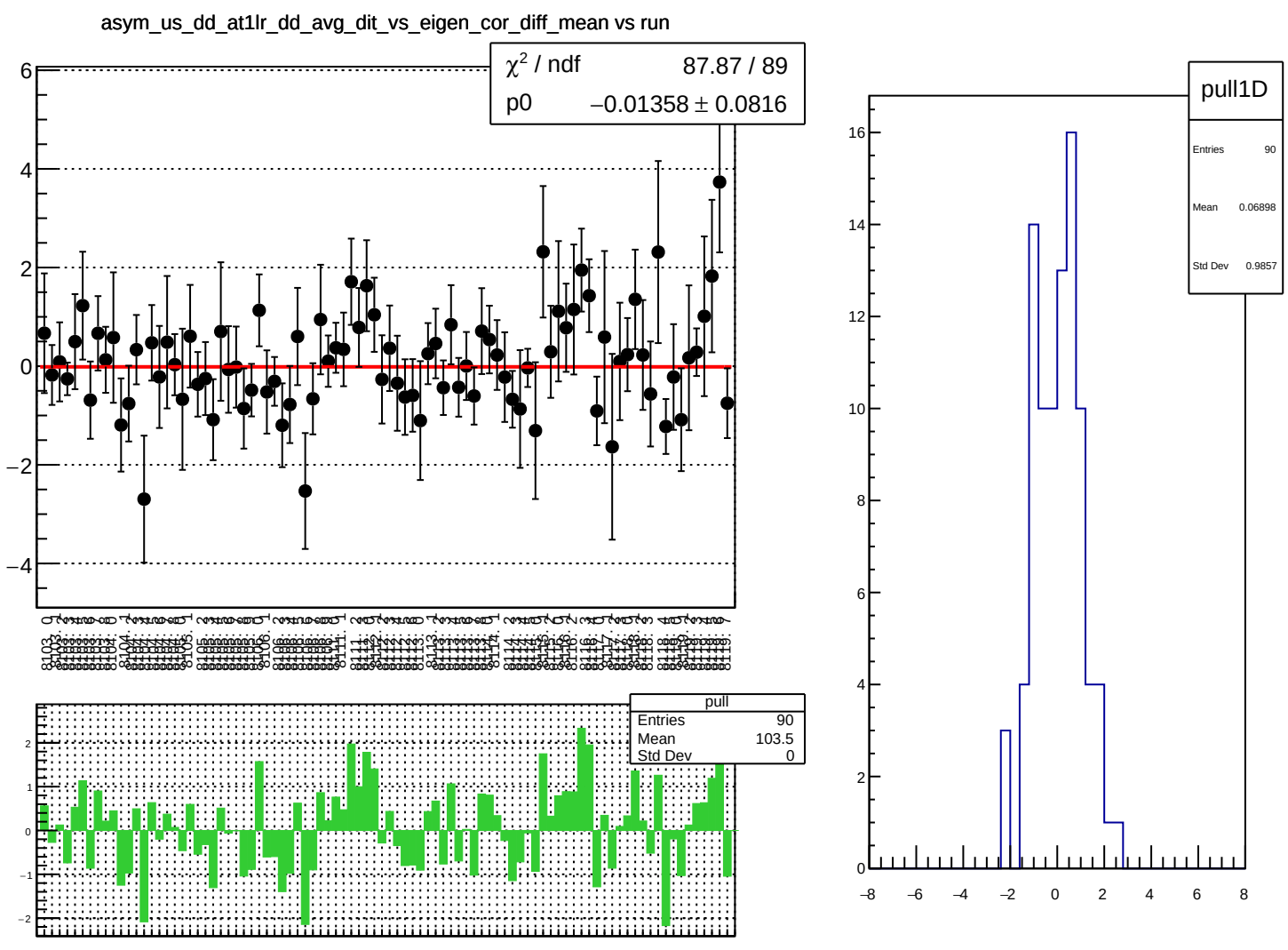

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 904.1 / 89
p0 2661 ± 2.007
3000
2900
2800
2700
2600
2500

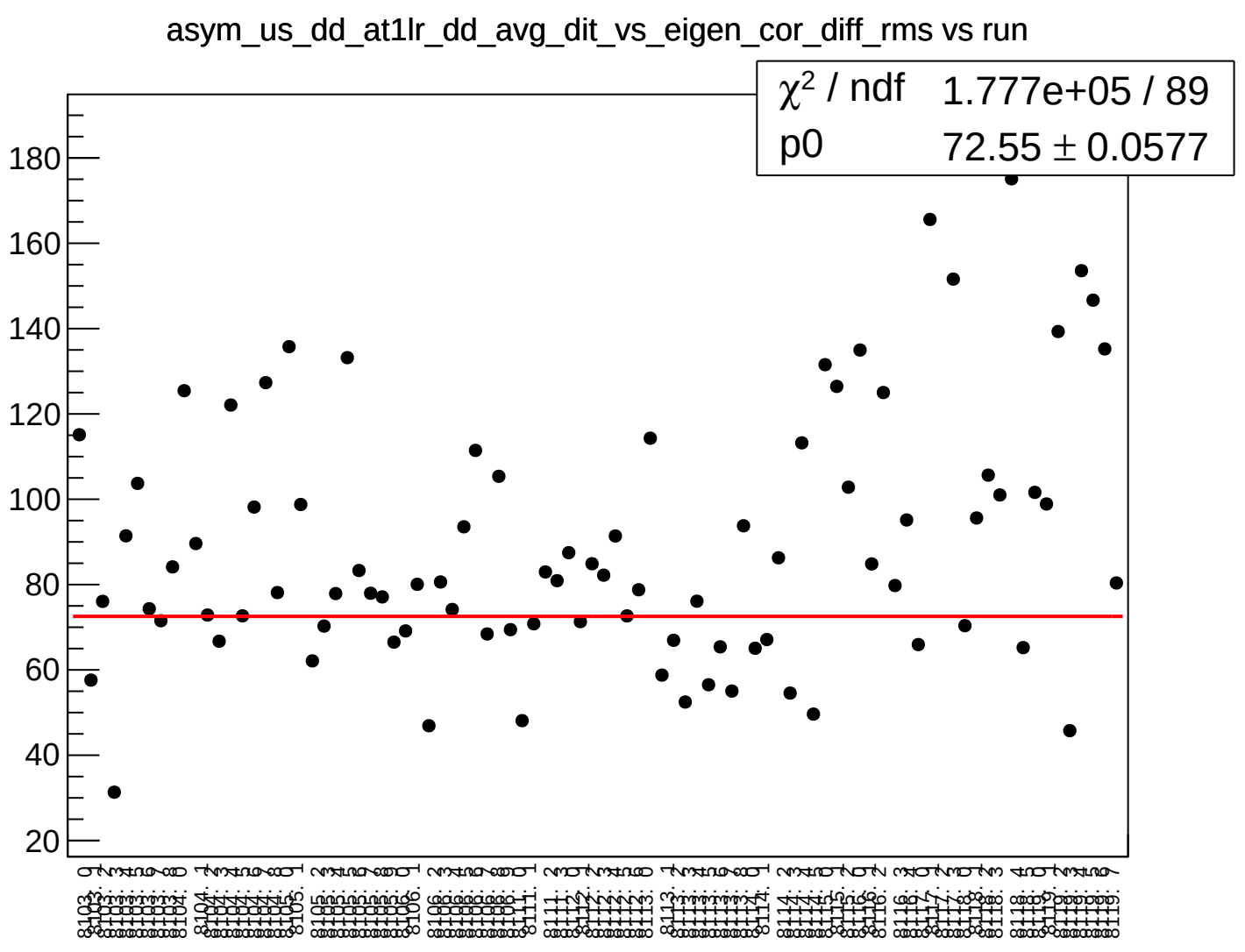

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.66 / 89
p0 2.45e−13 ± 2.501e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 90
Mean 47.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.08387
Std Dev 0.9546
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

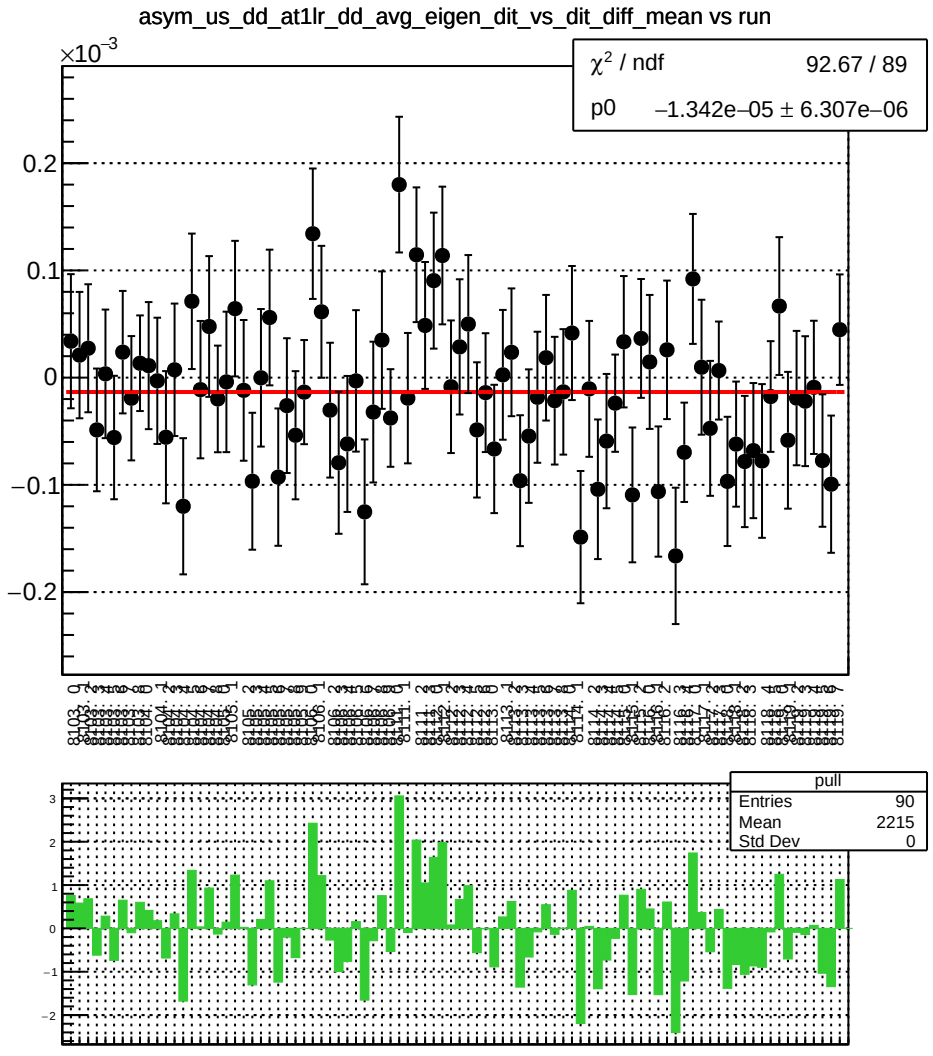

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.046e+05 / 89
p0 1.635e−10 ± 1.769e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

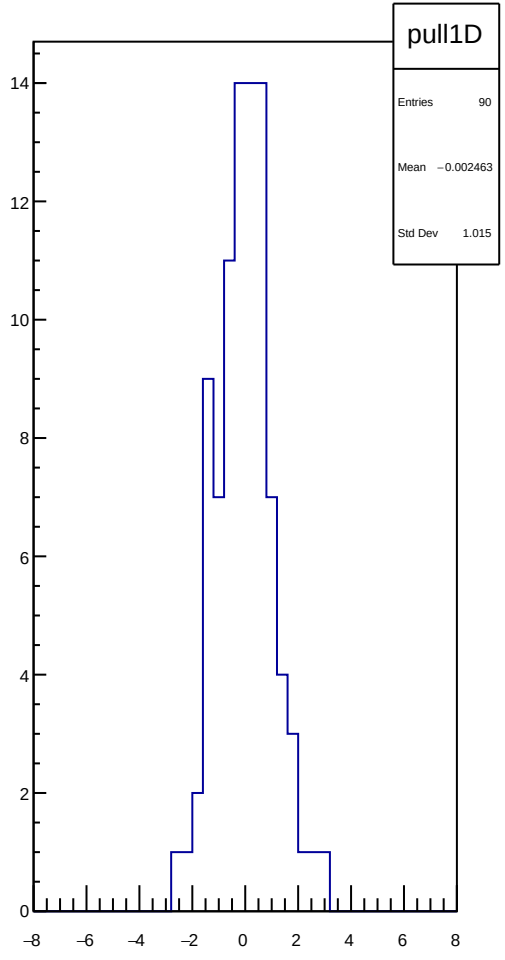

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 89
p0 −0.01358 ± 0.0816
pull
Entries 90
Mean 103.5
Std Dev 0
pull1D
Entries 90
Mean 0.06898
Std Dev 0.9857

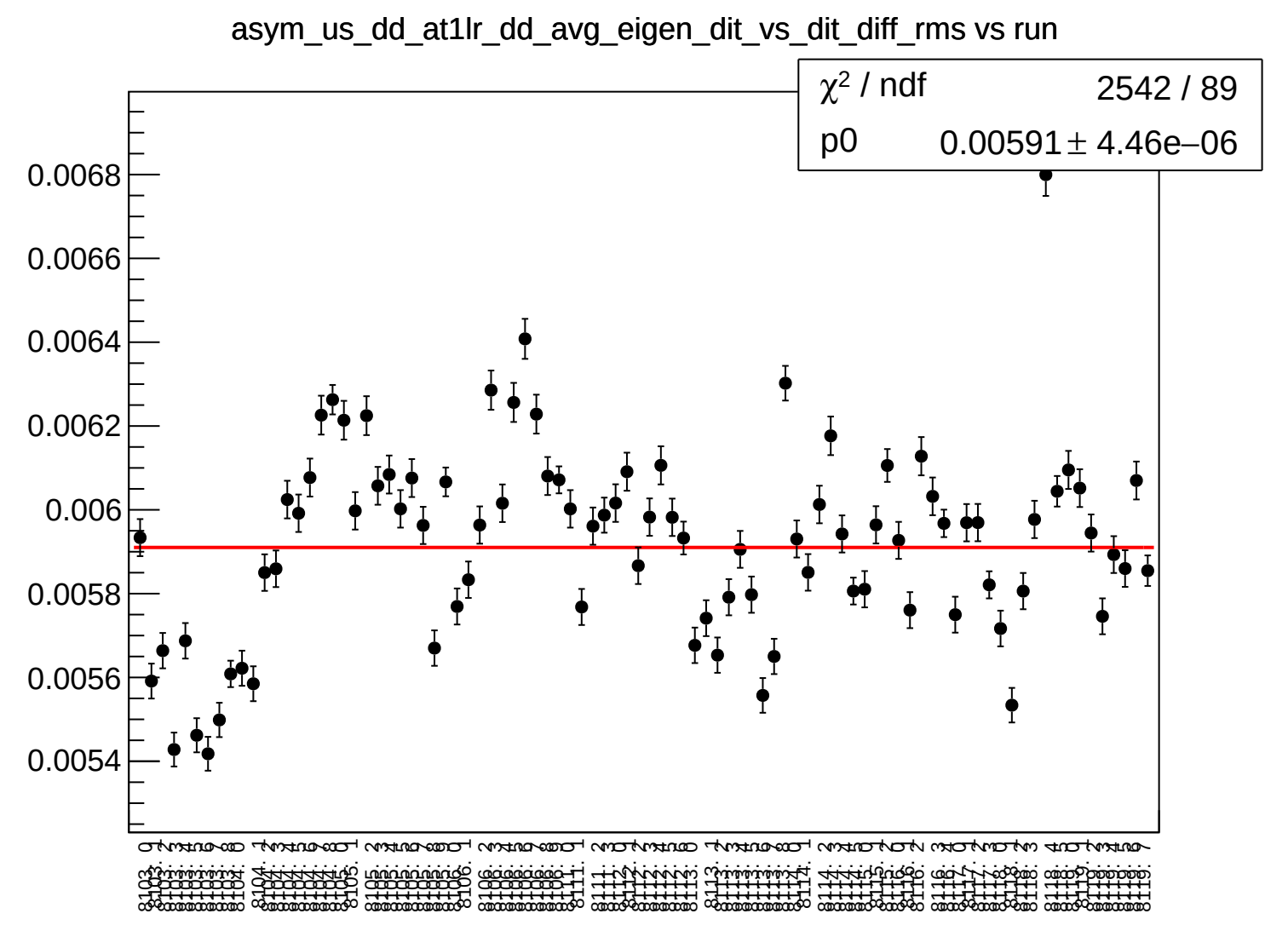

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.777e+05 / 89
p0 72.55 ± 0.0577
180
160
140
120
100
80
60
40
20

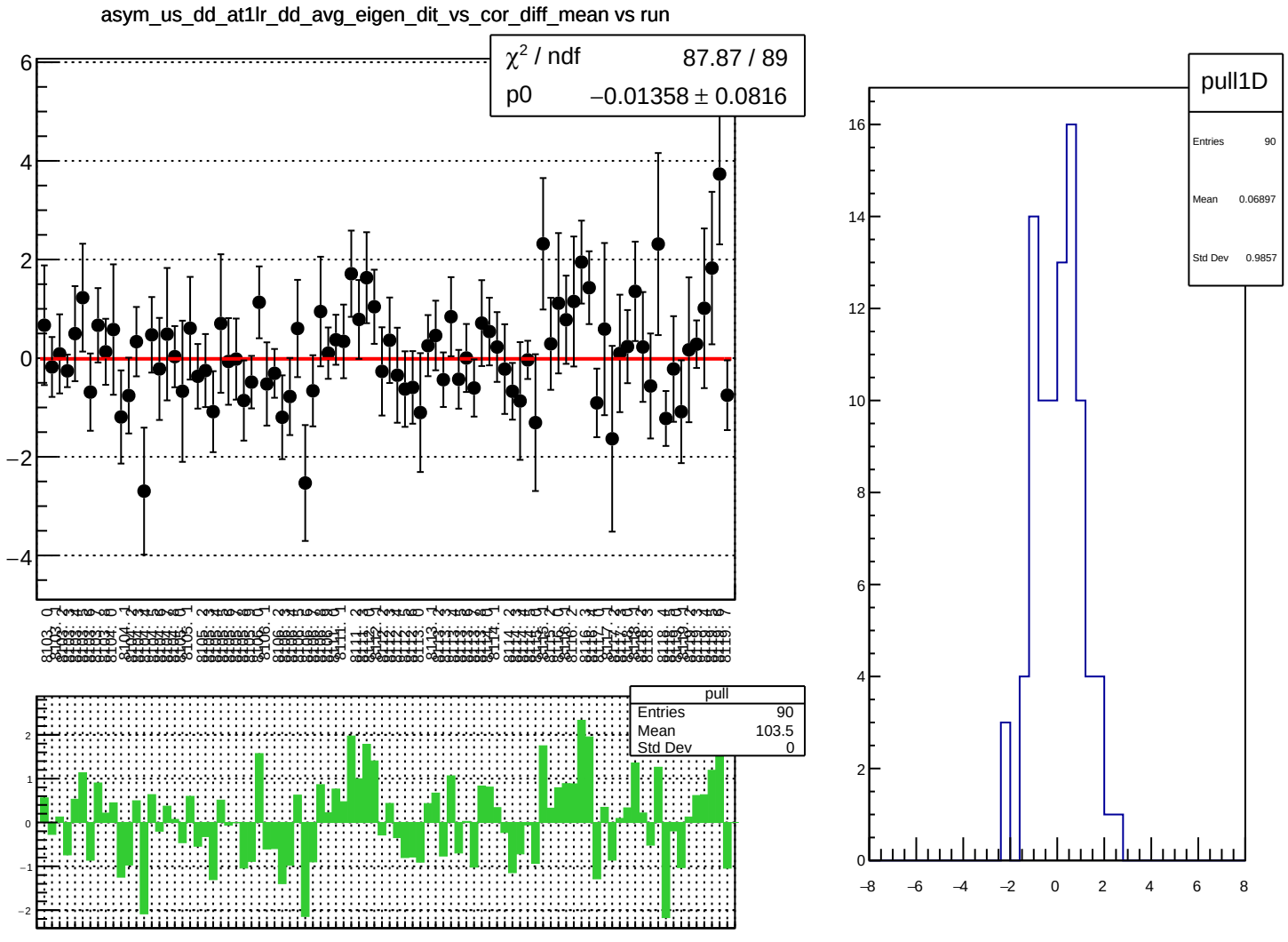

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.87 / 89
p0 −0.01358 ± 0.0816
pull
Entries 90
Mean 103.5
Std Dev 0
pull1D
Entries 90
Mean 0.06898
Std Dev 0.9857

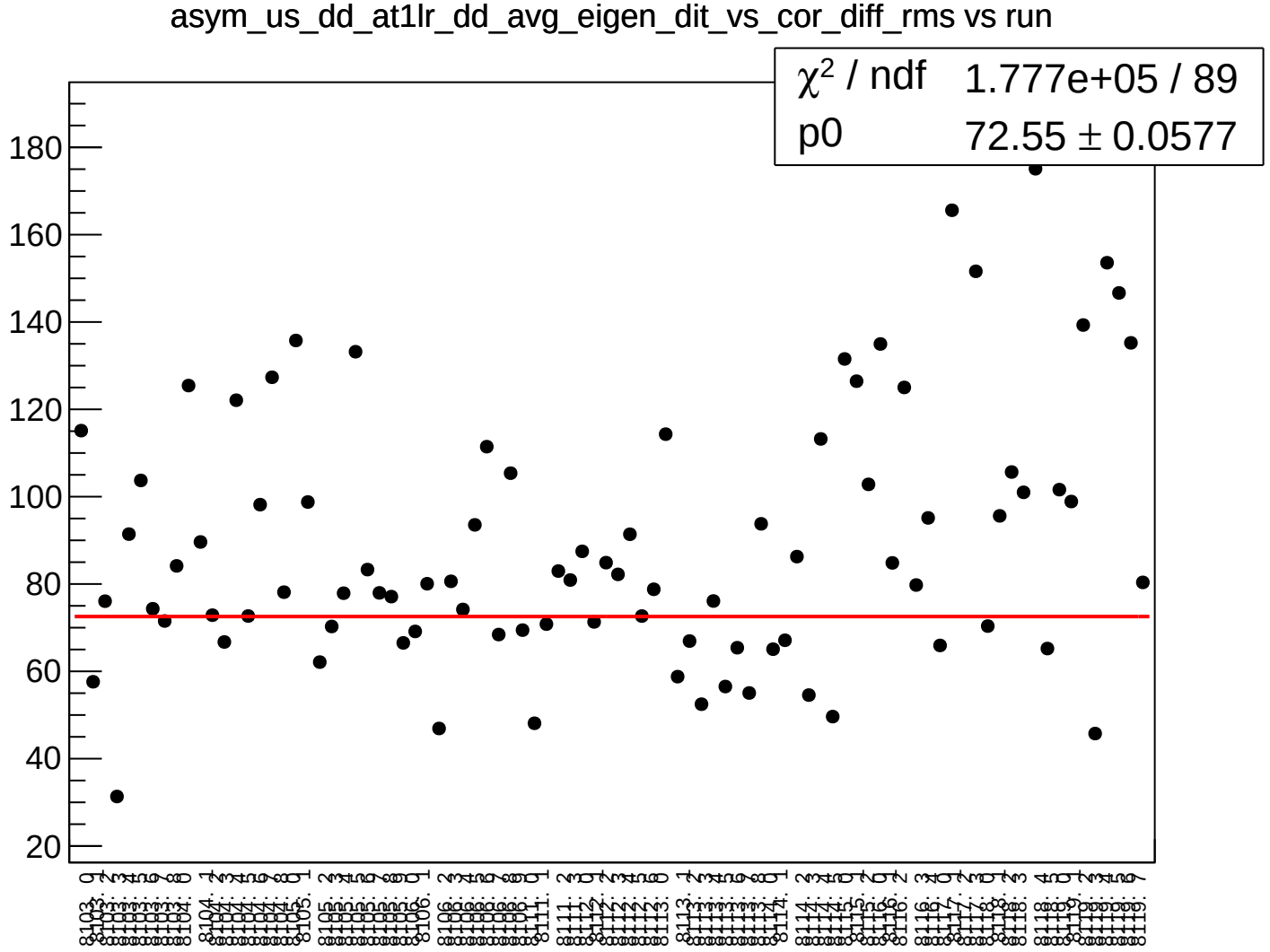

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.777e+05 / 89
p0 72.55 ± 0.0577
180
160
140
120
100
80
60
40
20

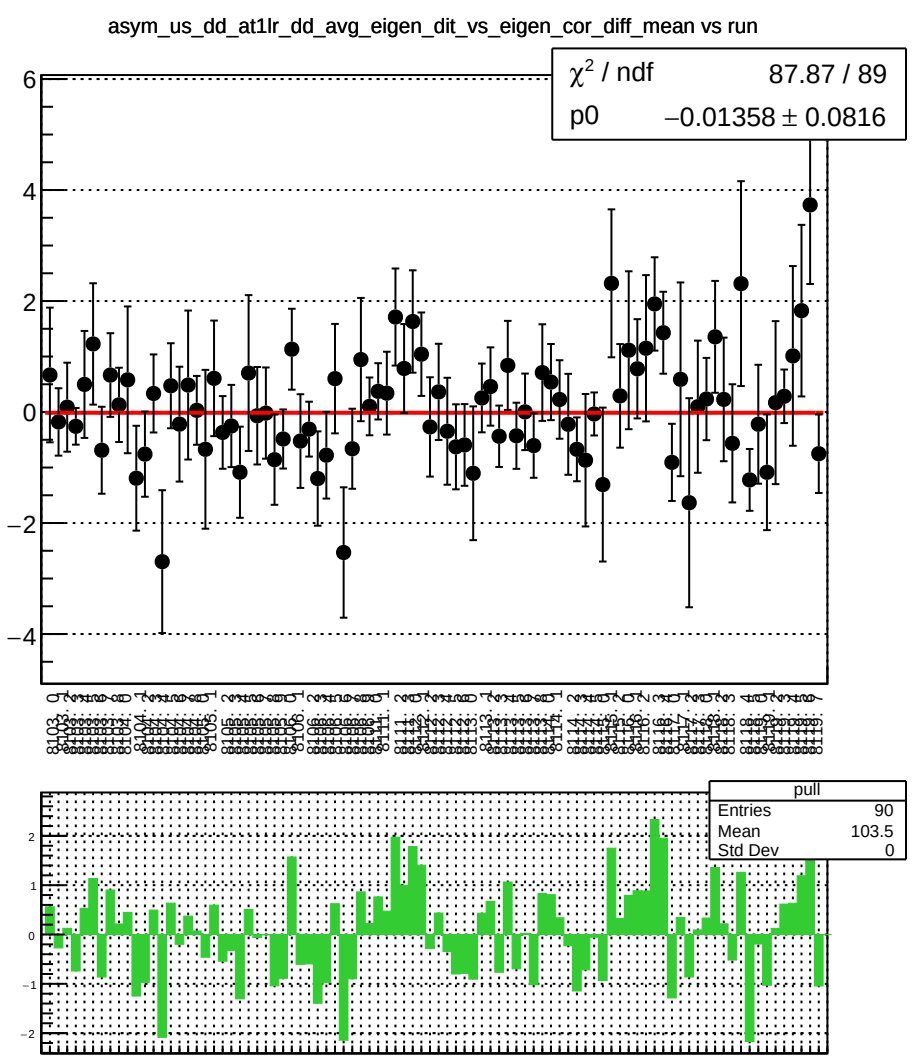

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.67 / 89
p0 −1.342e−05 ± 6.307e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 90
Mean 2215
Std Dev 0
3
2
1
0
−1
−2

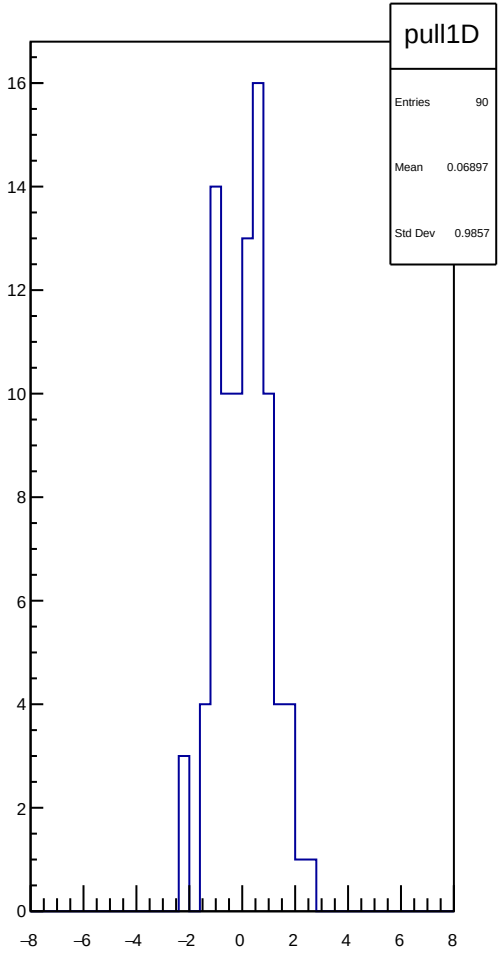

pull1D
Entries 90
Mean −0.002463
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

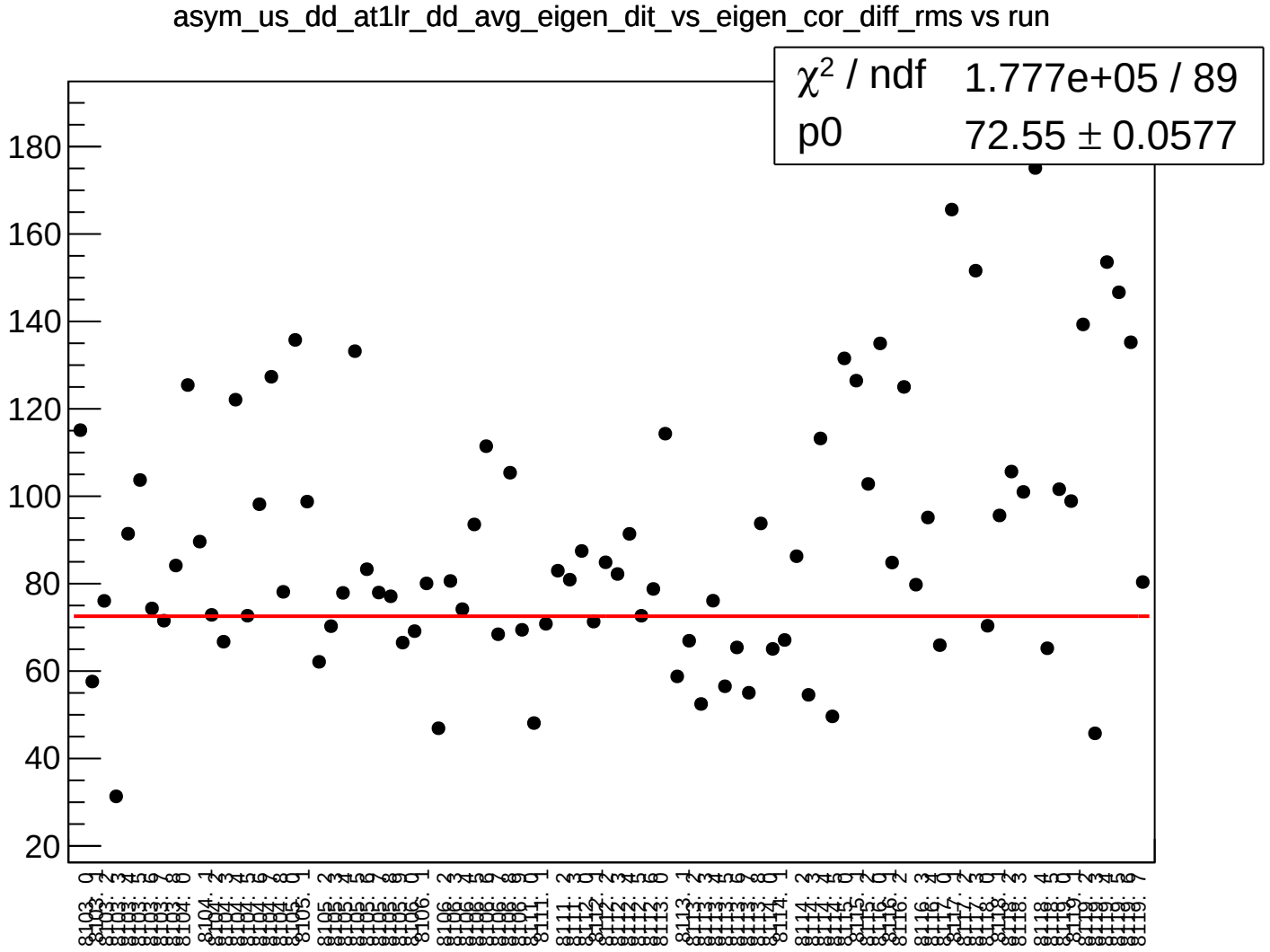

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2542 / 89
p0 0.00591 ± 4.46e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

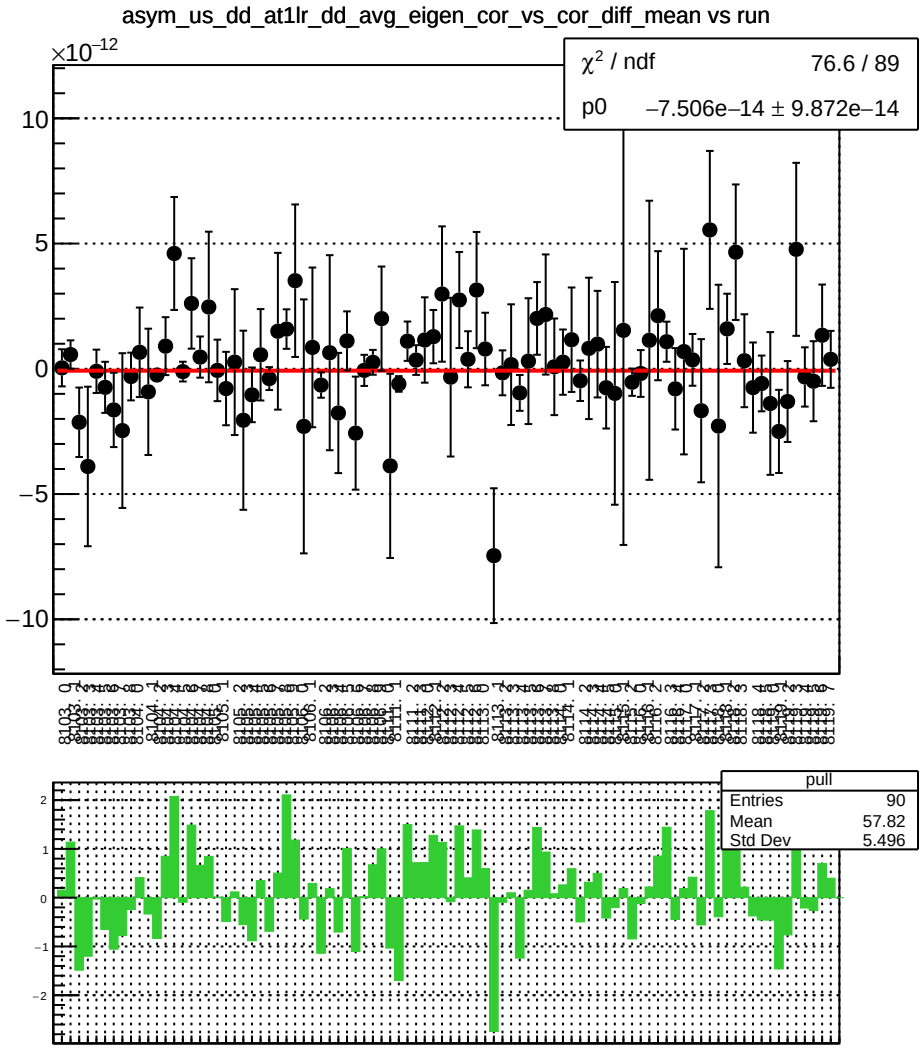

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 89
p0 −0.01358 ± 0.0816
pull
Entries 90
Mean 103.5
Std Dev 0
pull1D
Entries 90
Mean 0.06897
Std Dev 0.9857

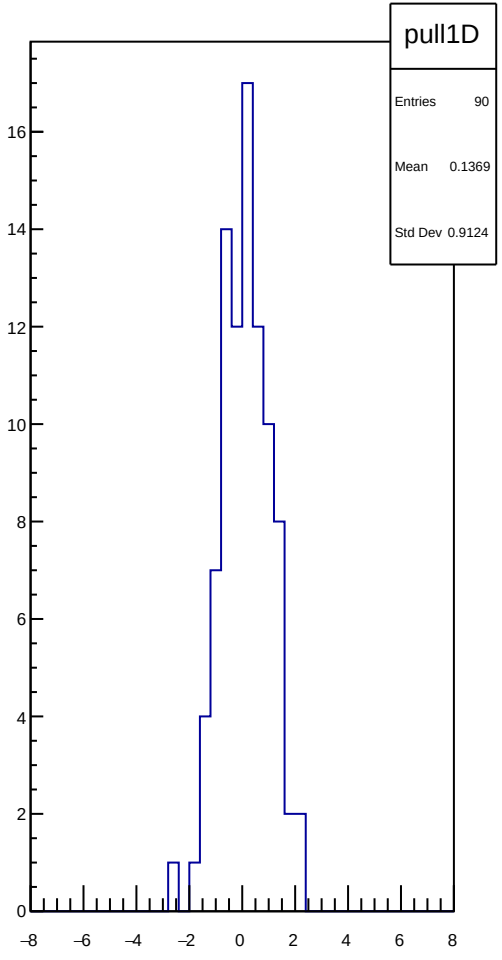

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.777e+05 / 89
p0 72.55 ± 0.0577
180
160
140
120
100
80
60
40
20

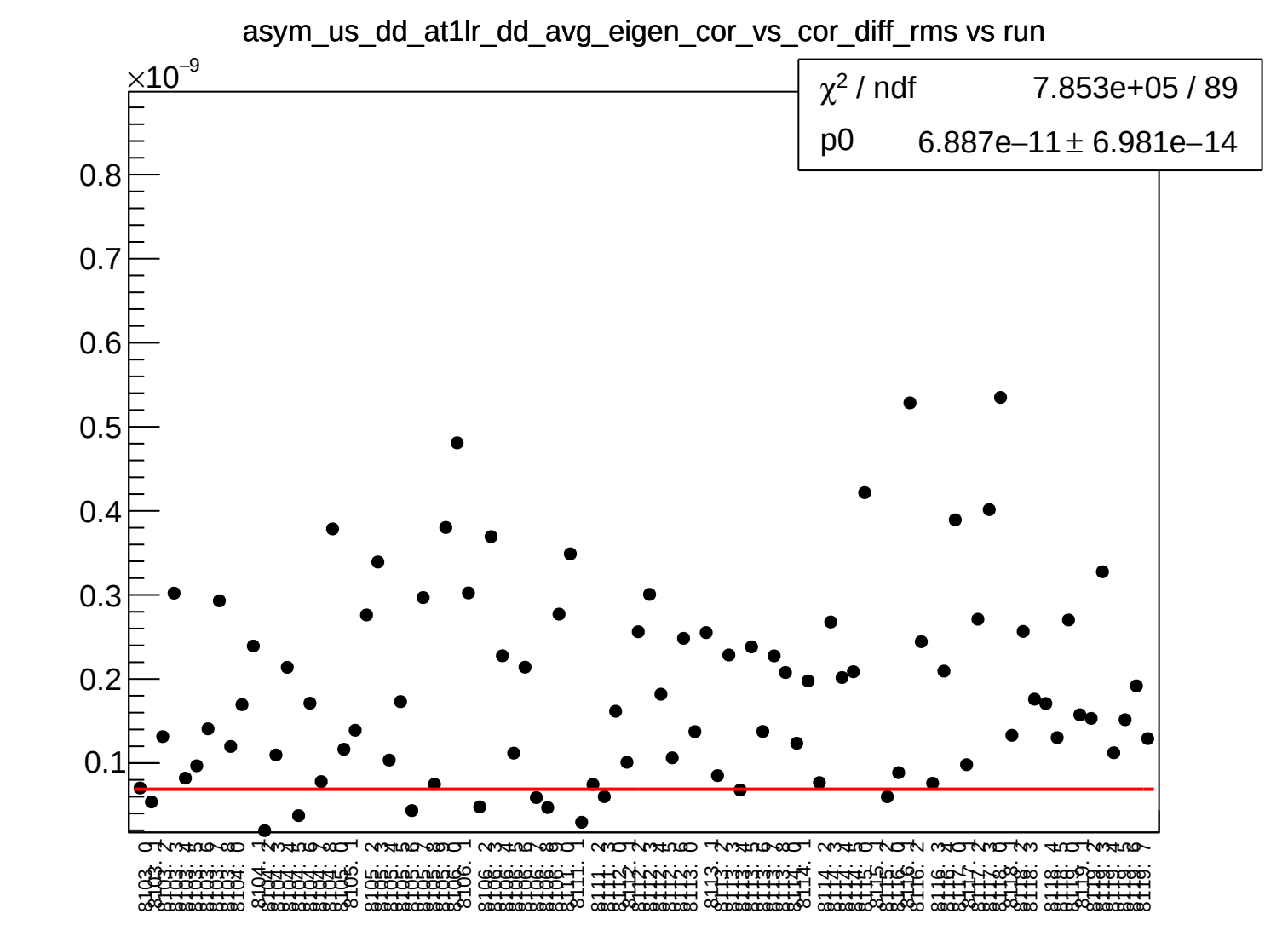

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.87 / 89
p0 −0.01358 ± 0.0816
pull
Entries 90
Mean 103.5
Std Dev 0

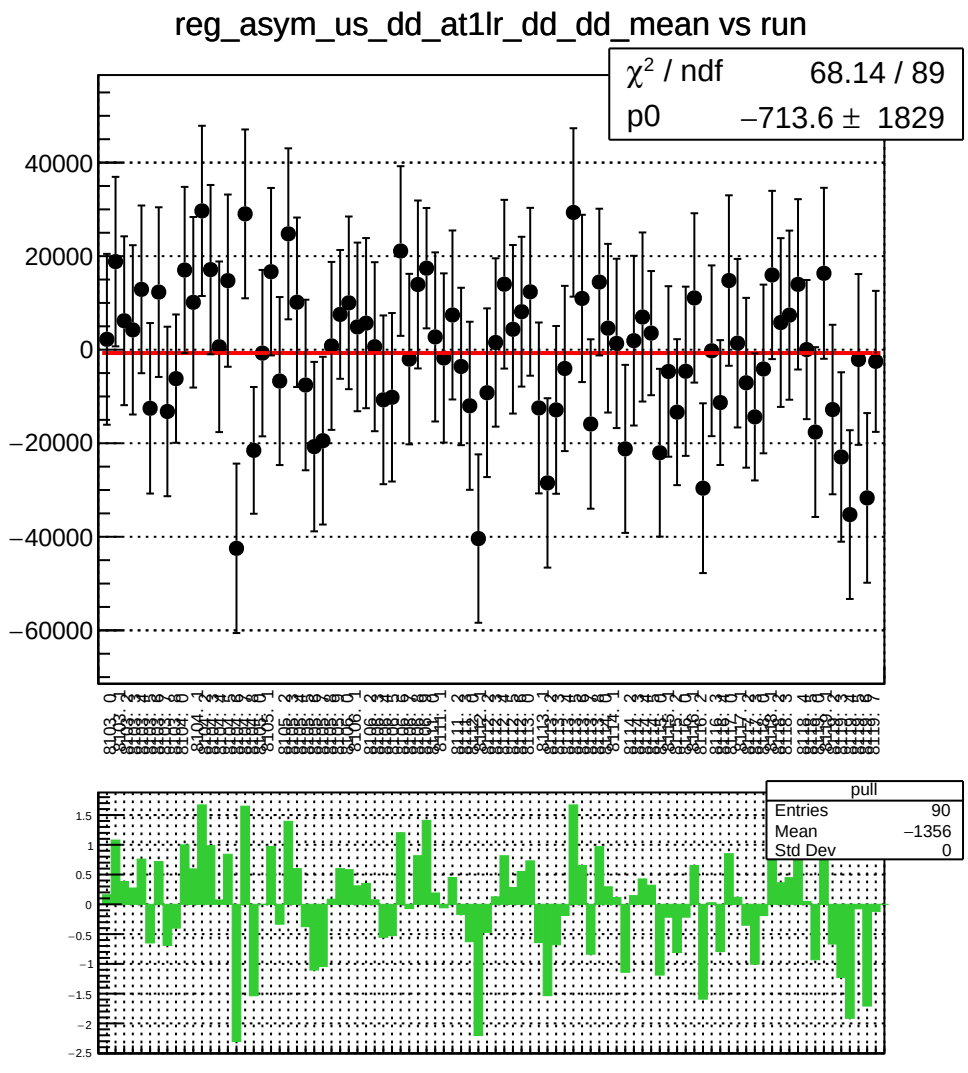

pull1D
Entries 90
Mean 0.06897
Std Dev 0.9857

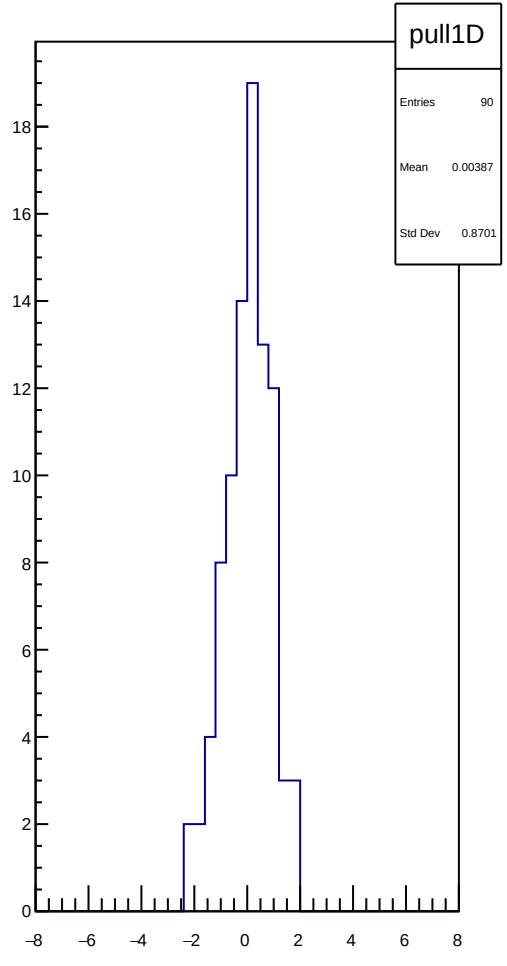

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.777e+05 / 89
p0 72.55 ± 0.0577
180
160
140
120
100
80
60
40
20

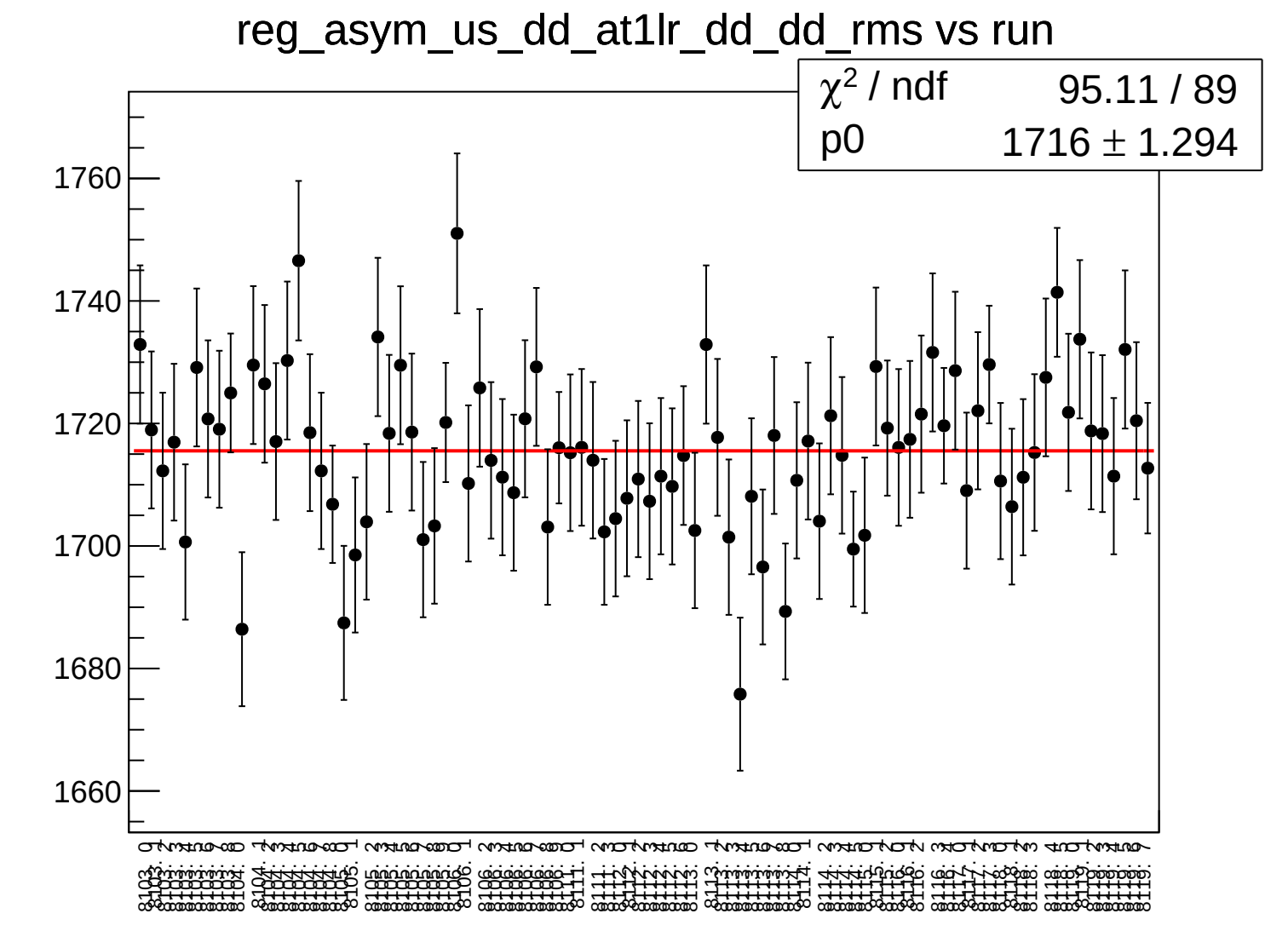

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.6 / 89
p0 −7.506e−14 ± 9.872e−14
pull
Entries 90
Mean 57.82
Std Dev 5.496

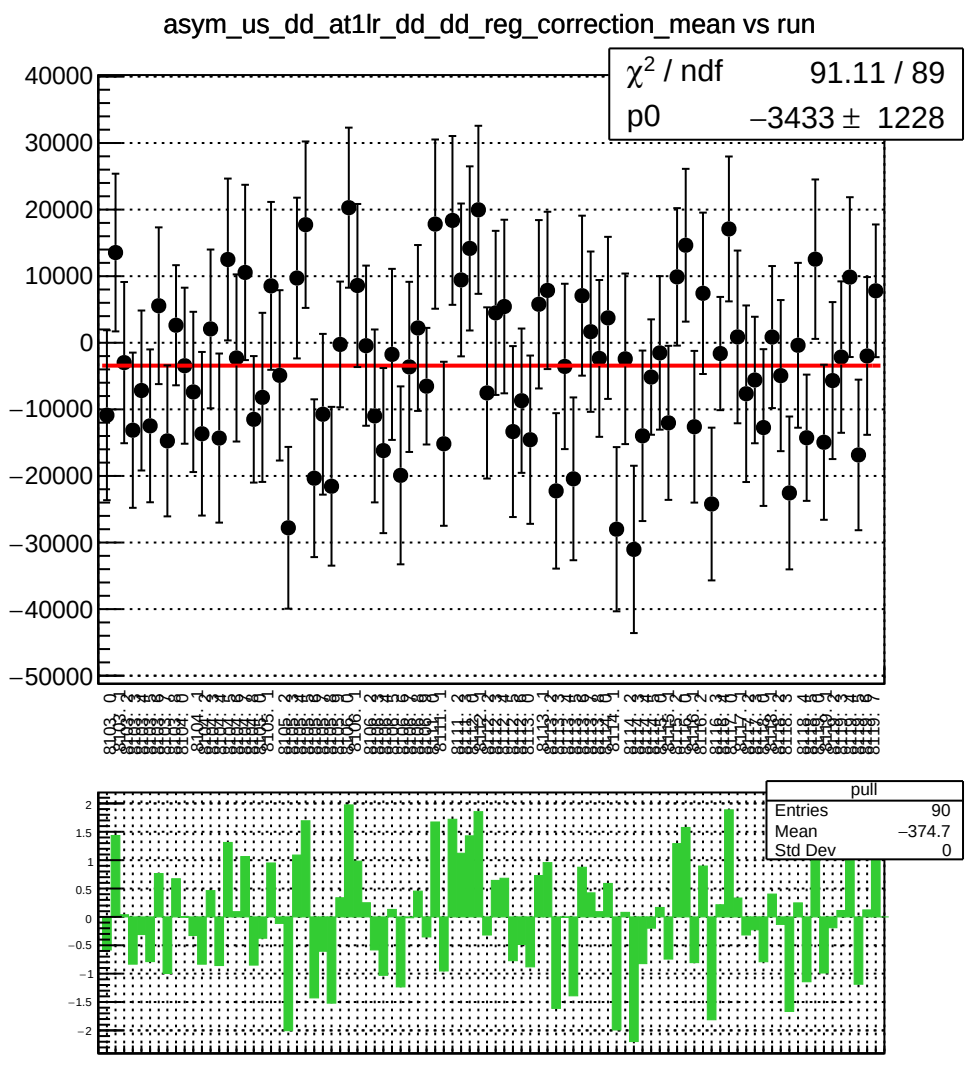

pull1D
Entries 90
Mean 0.1369
Std Dev 0.9124

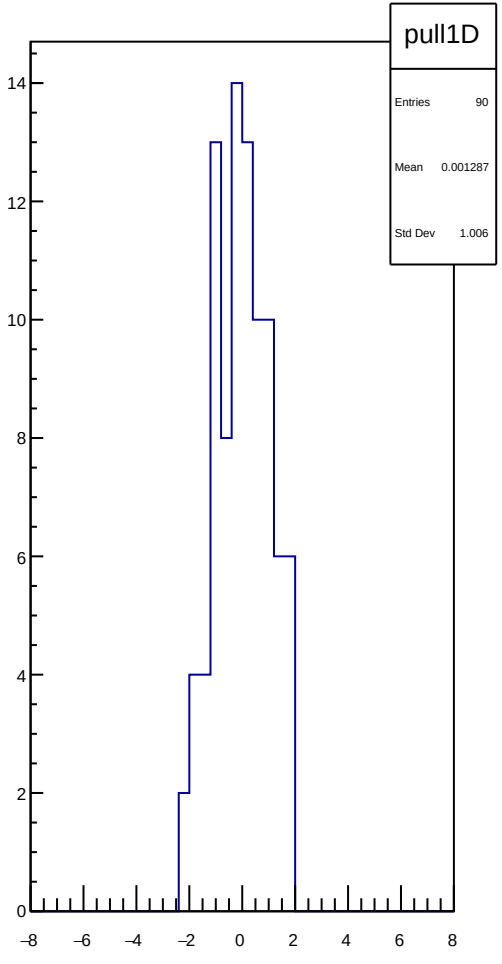

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.853e+05 / 89
p0 6.887e−11 ± 6.981e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

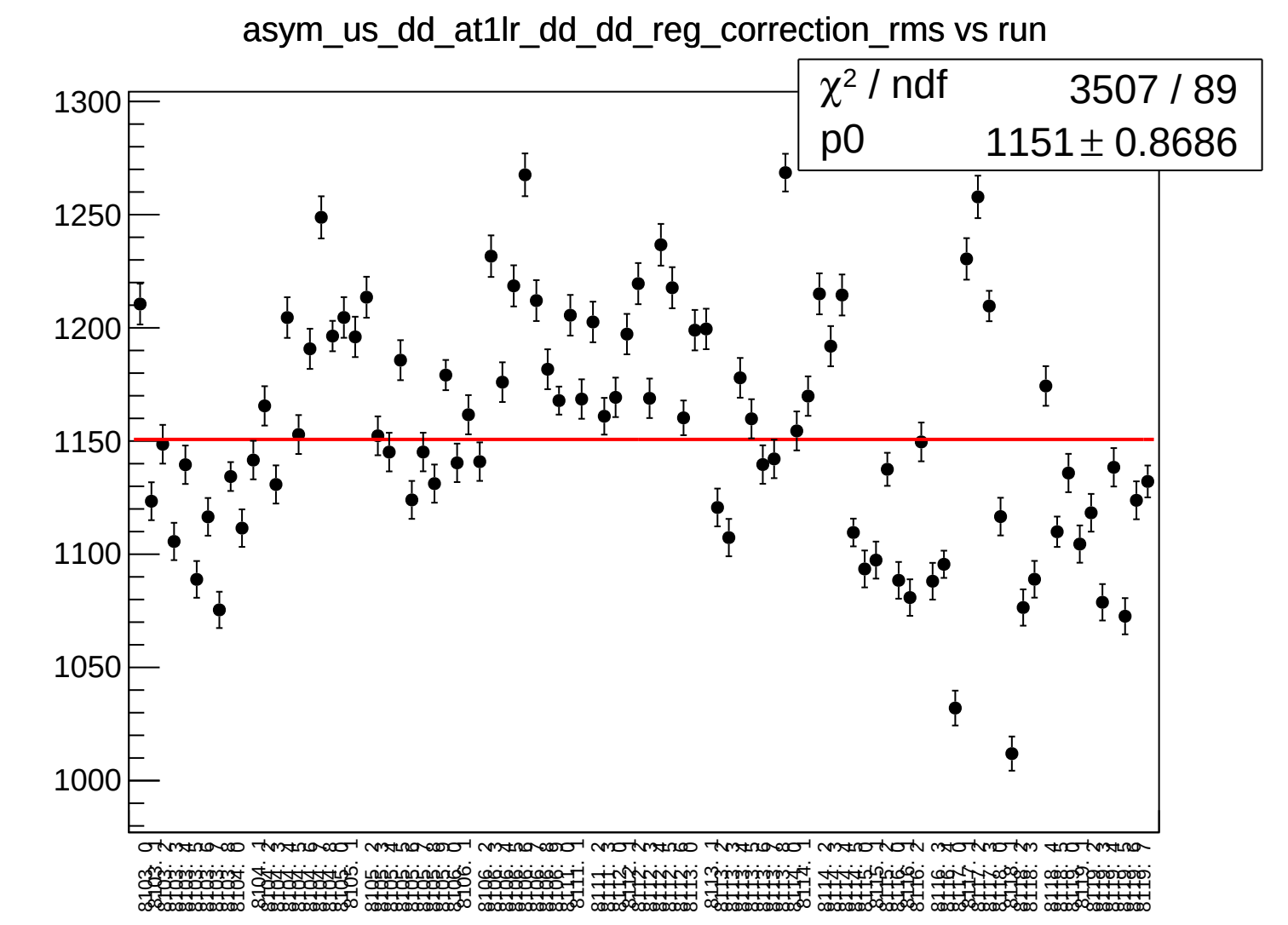

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 68.14 / 89
p0 −713.6 ± 1829
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1356
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

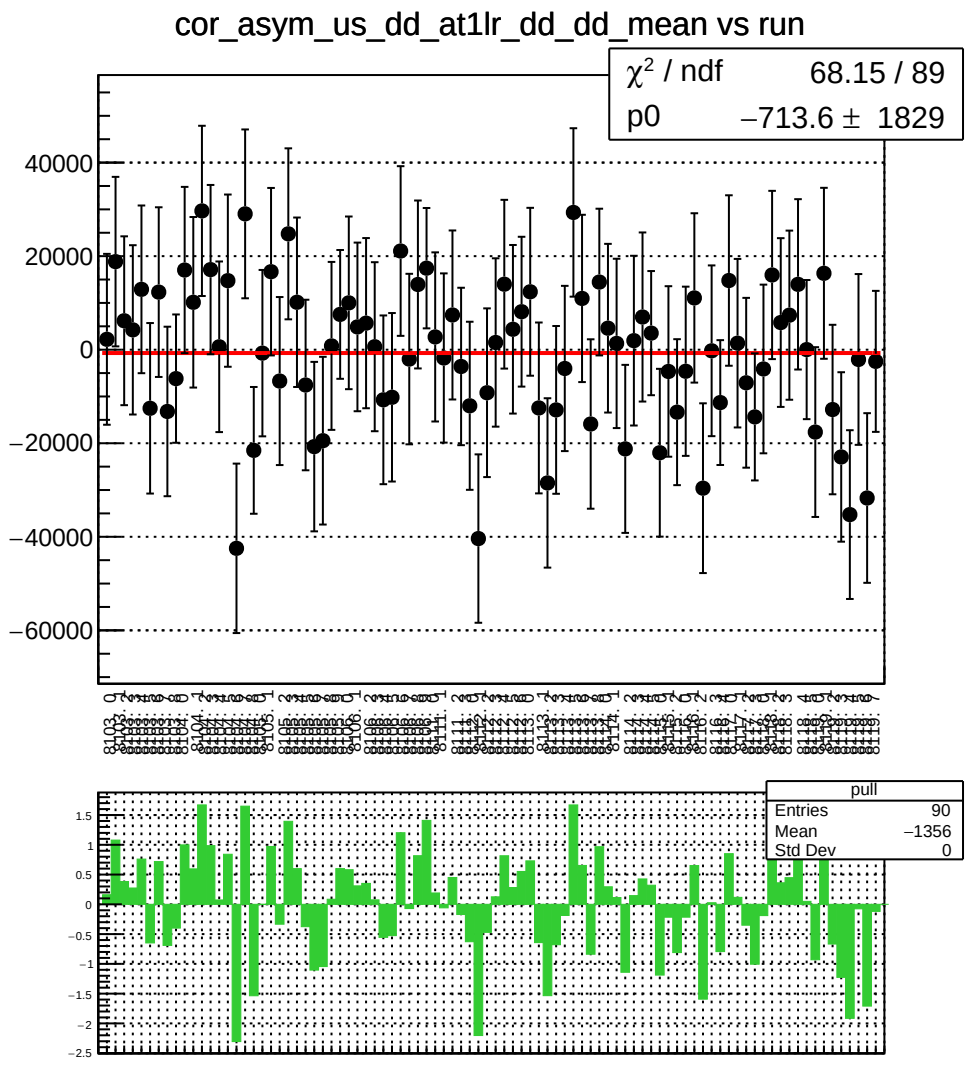

pull1D
Entries 90
Mean 0.00387
Std Dev 0.8701
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

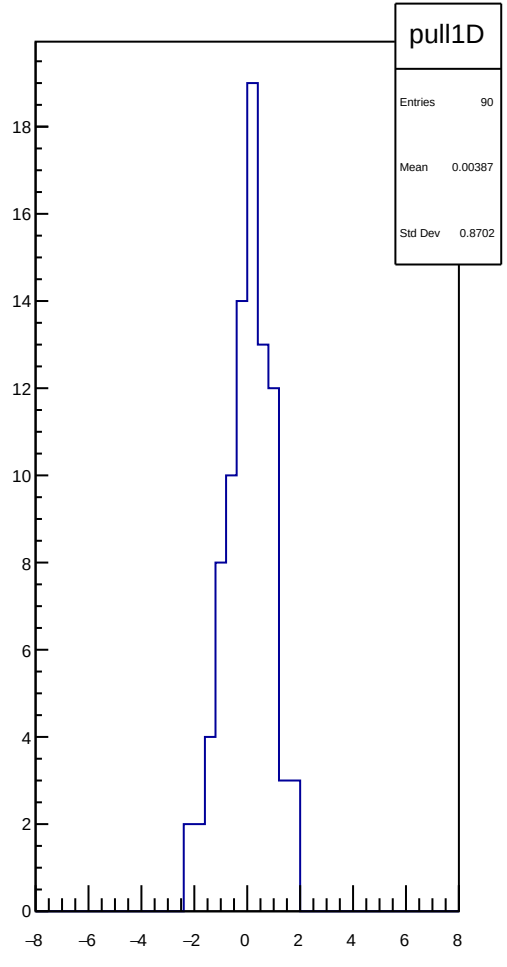

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 95.11 / 89
p0 1716 ± 1.294
1760
1740
1720
1700
1680
1660

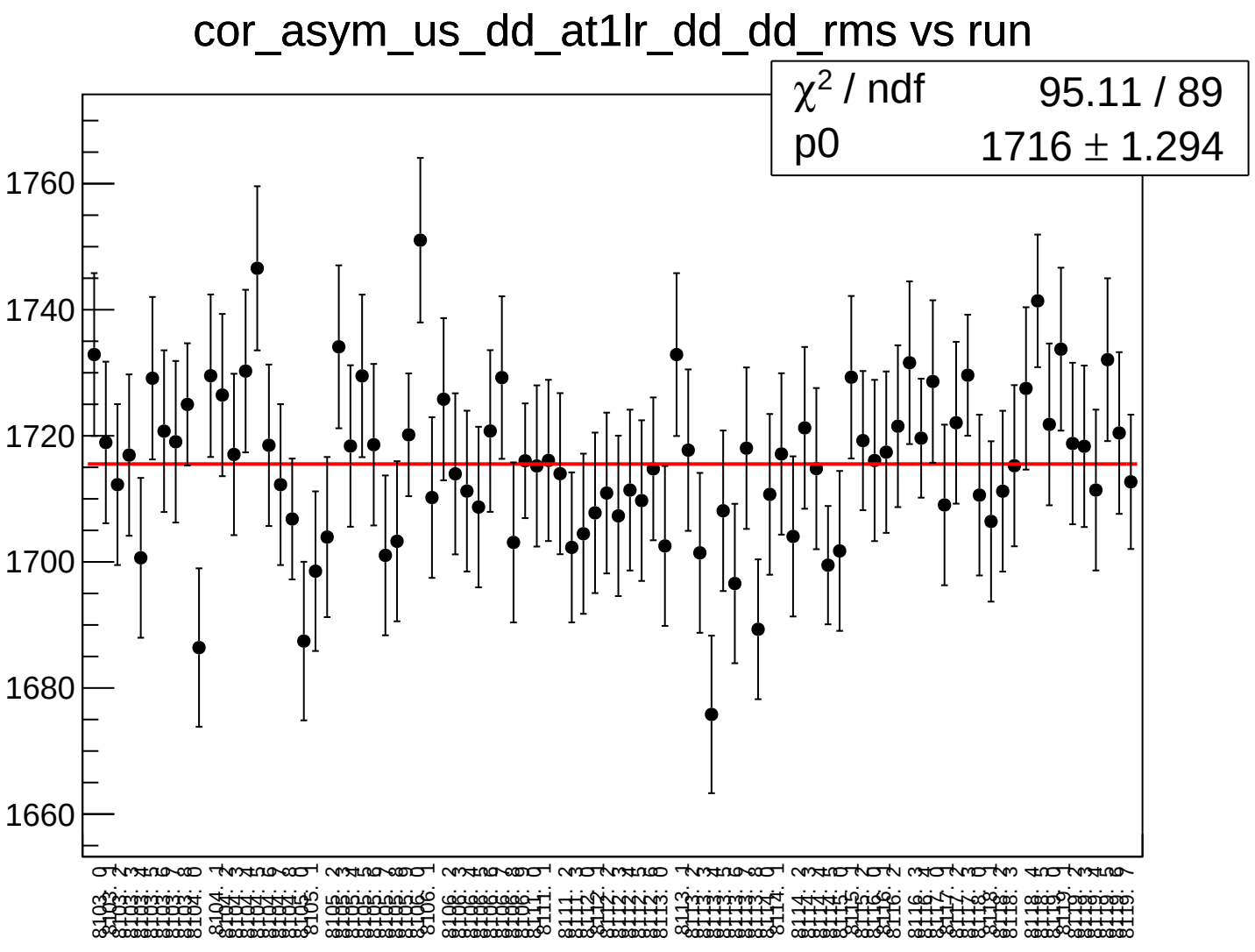

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 91.11 / 89
p0 −3433 ± 1228
pull
Entries 90
Mean −374.7
Std Dev 0

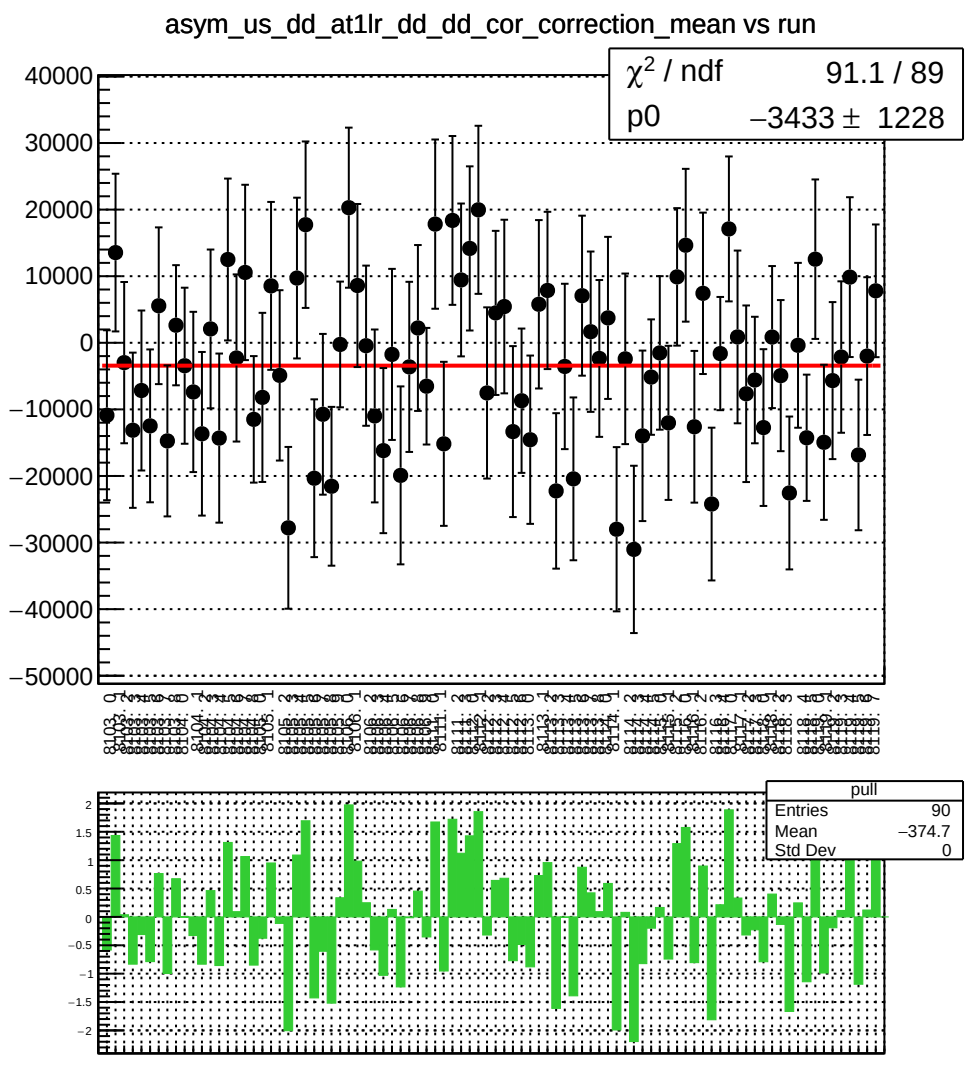

pull1D
Entries 90
Mean 0.001287
Std Dev 1.006

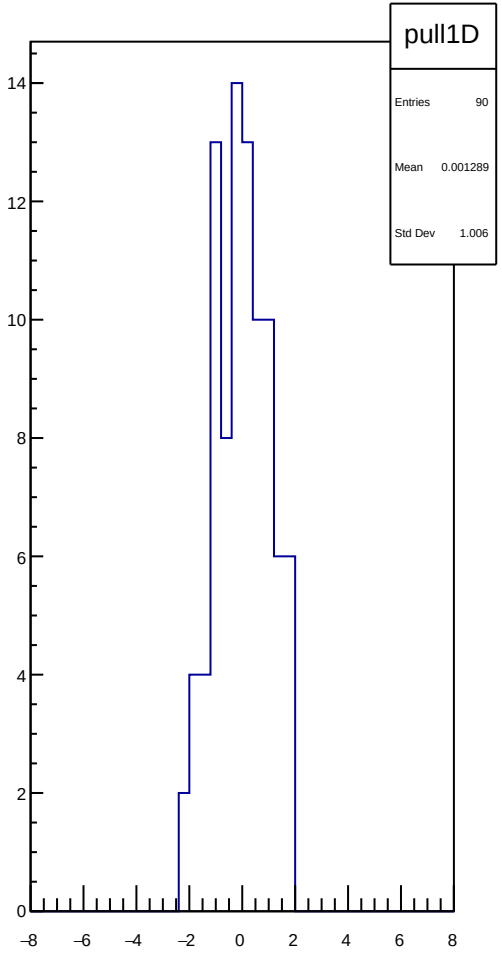

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3507 / 89
p0 1151 ± 0.8686
1300
1250
1200
1150
1100
1050
1000

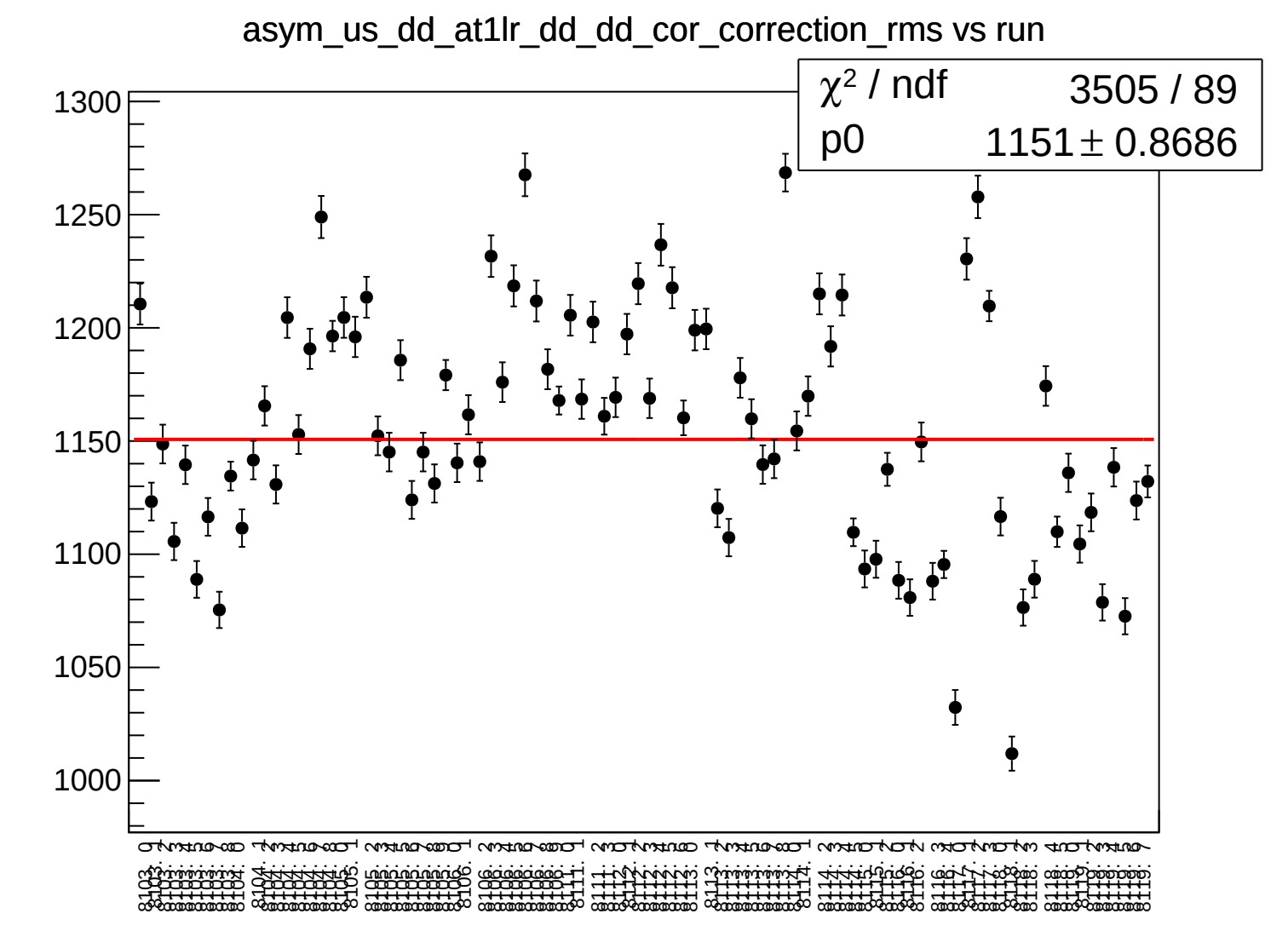

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 68.15 / 89
p0 −713.6 ± 1829
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1356
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

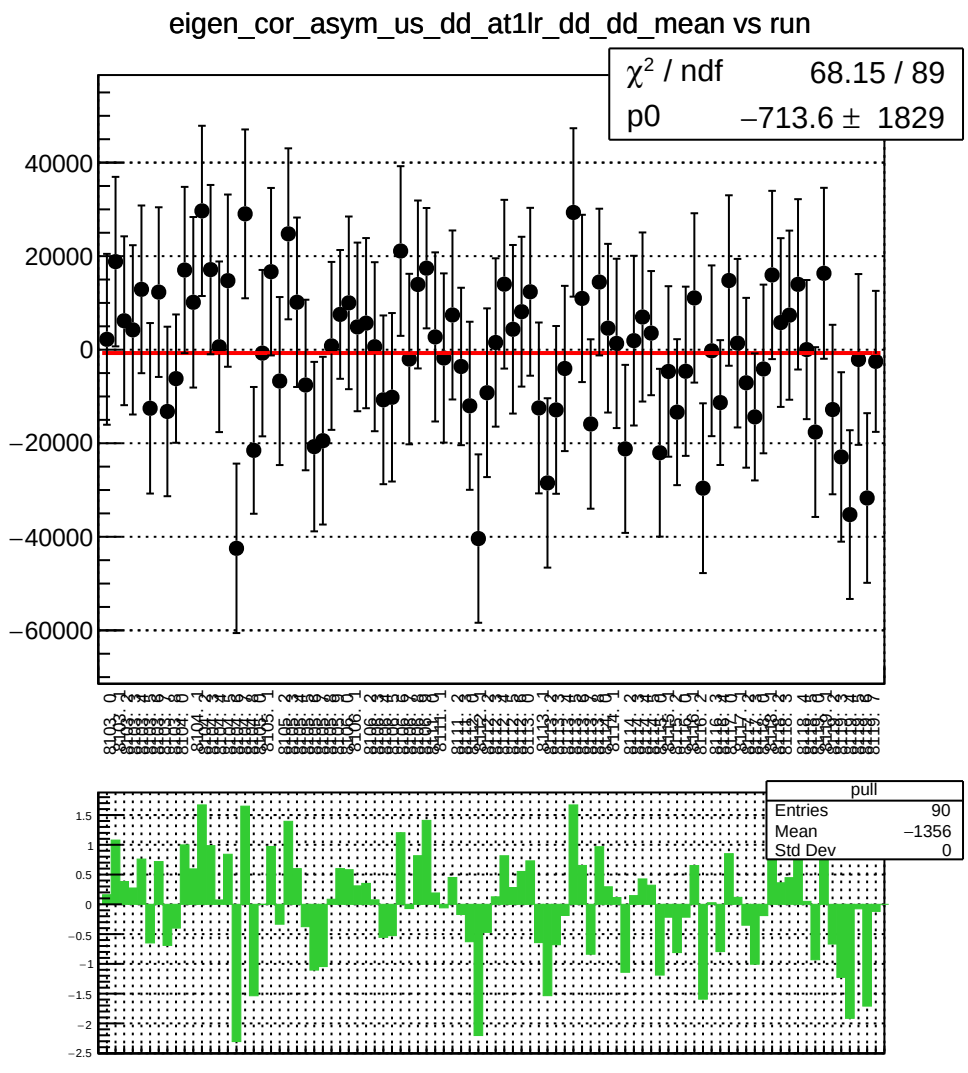

pull1D
Entries 90
Mean 0.00387
Std Dev 0.8702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

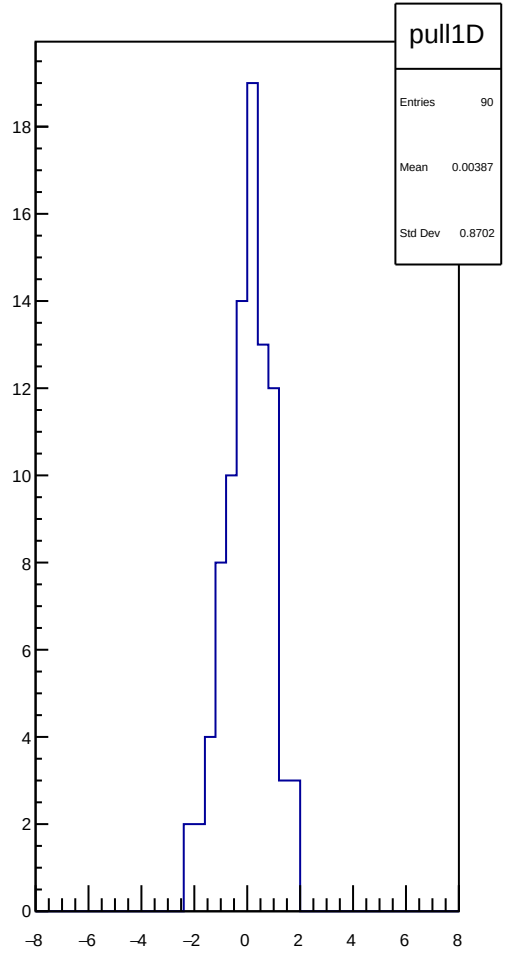

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 95.11 / 89
p0 1716 ± 1.294
1760
1740
1720
1700
1680
1660

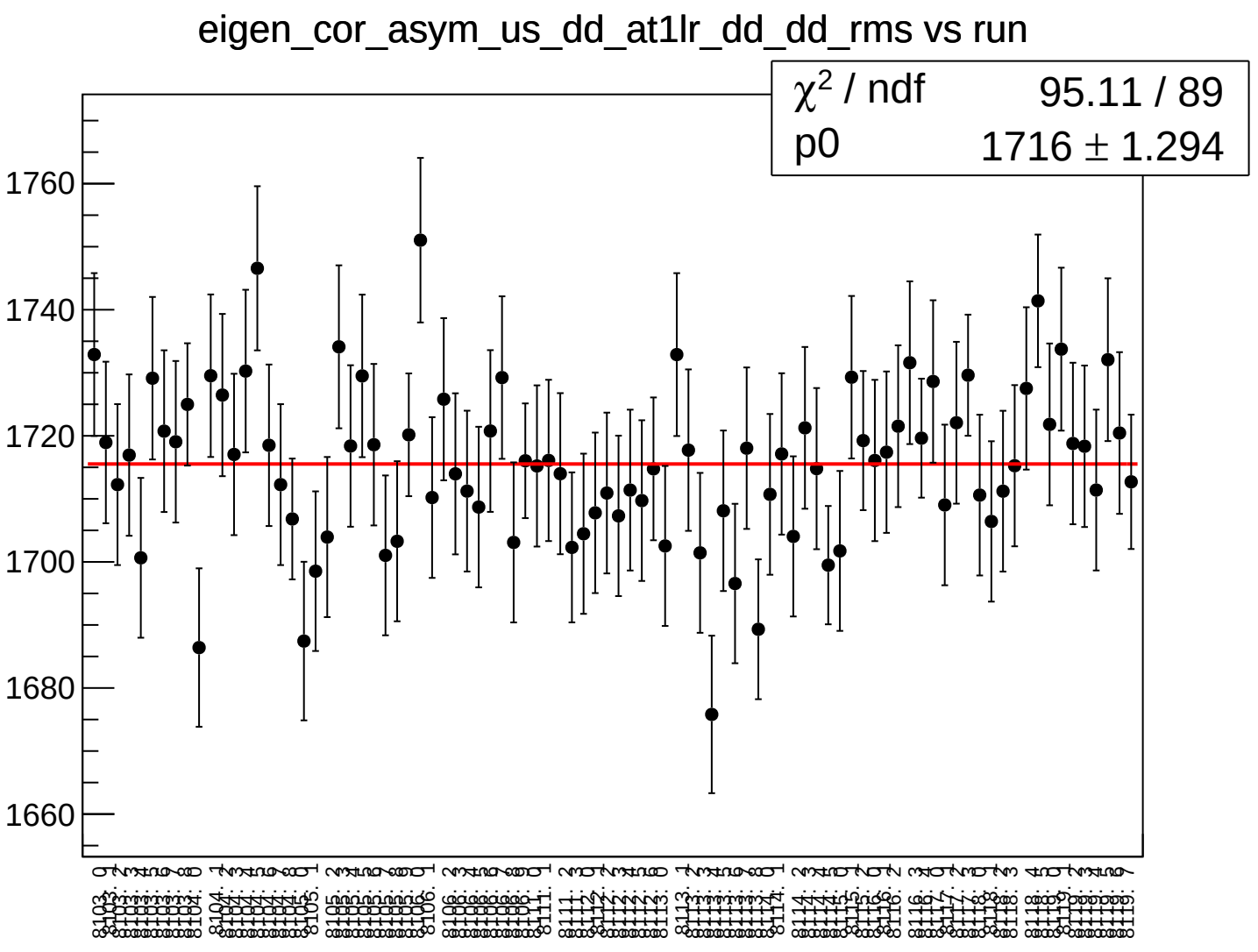

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 91.1 / 89
p0 −3433 ± 1228
pull
Entries 90
Mean −374.7
Std Dev 0

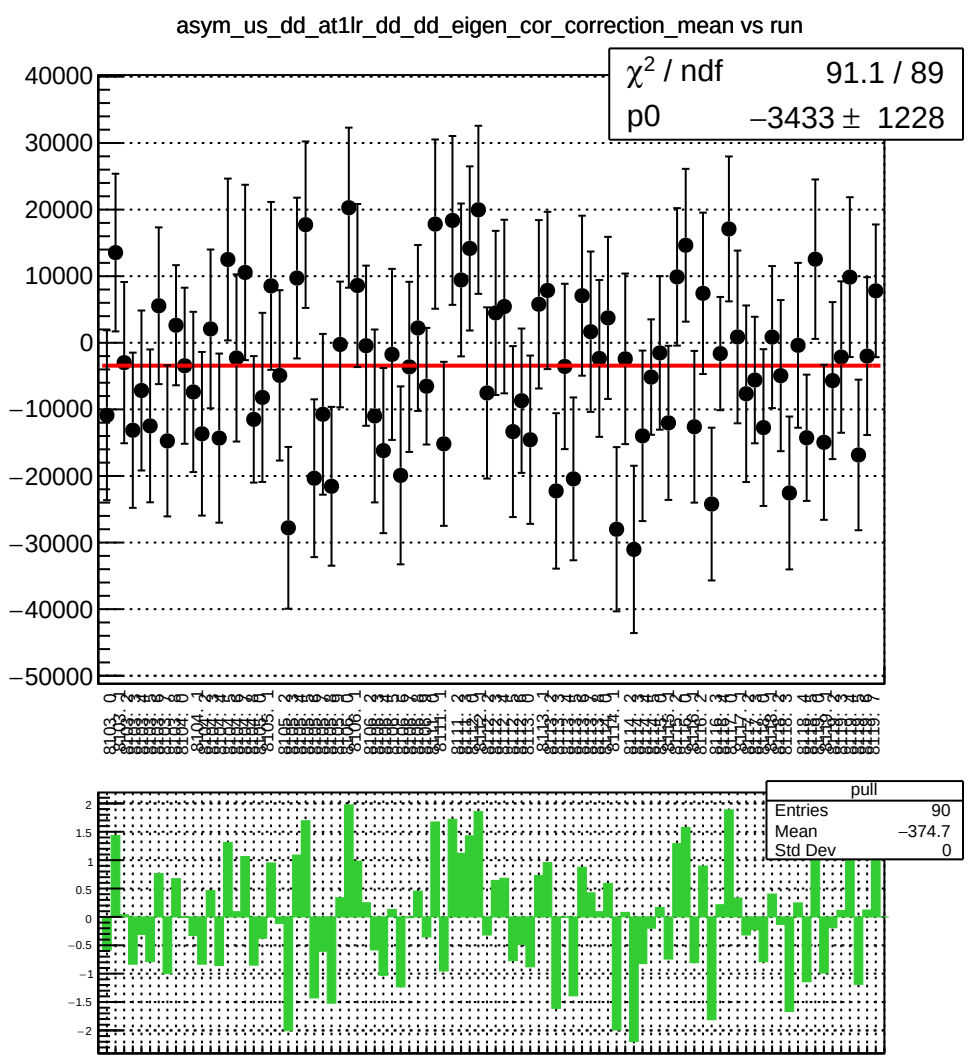

pull1D
Entries 90
Mean 0.001289
Std Dev 1.006

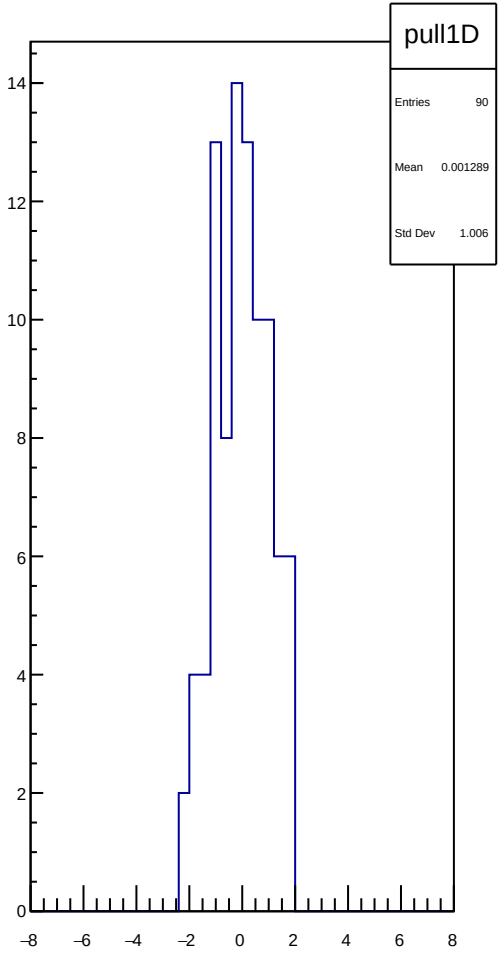

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3505 / 89
p0 1151 ± 0.8686
1300
1250
1200
1150
1100
1050
1000

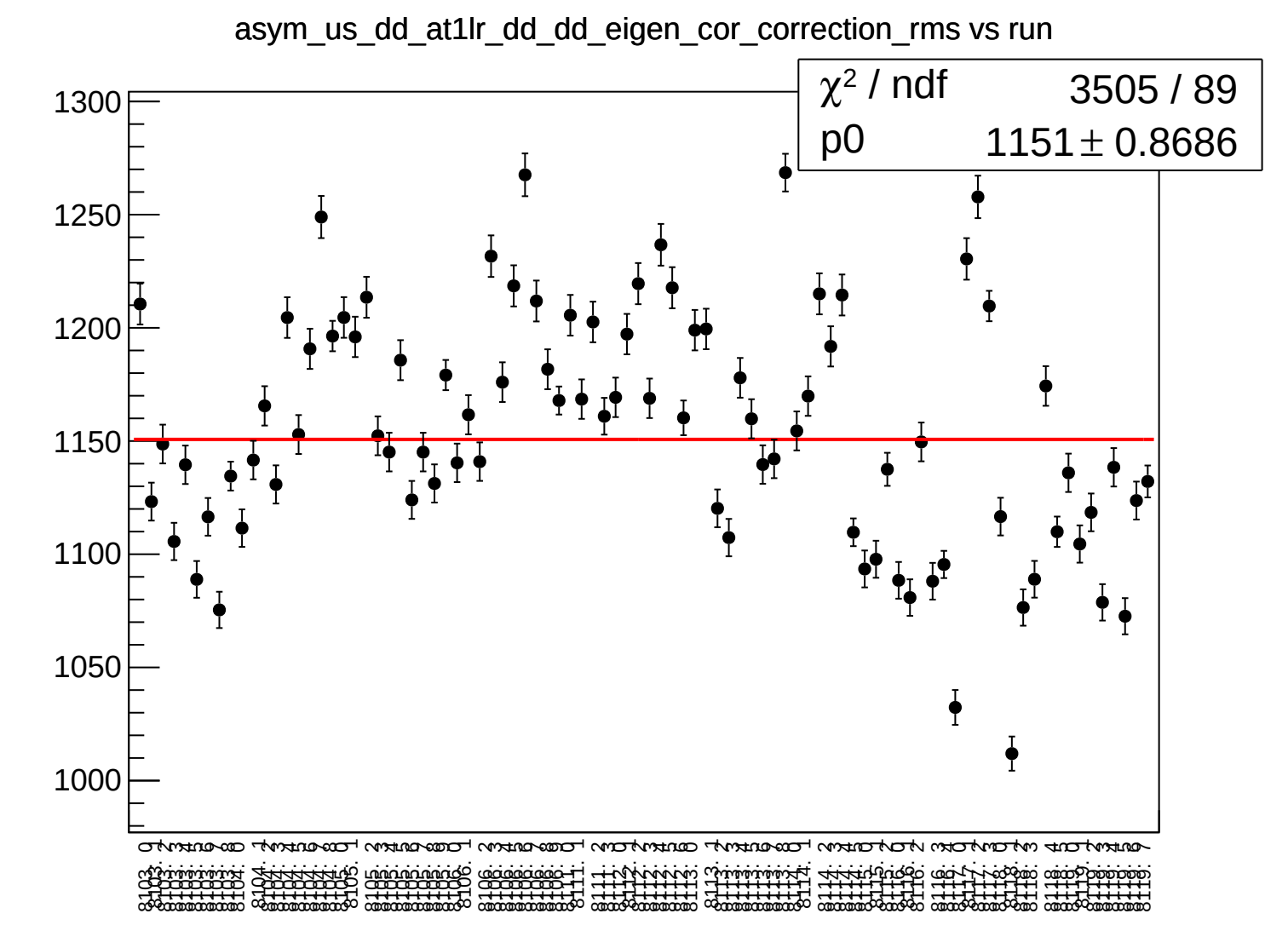

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 68.15 / 89
p0 −713.6 ± 1829
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1356
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

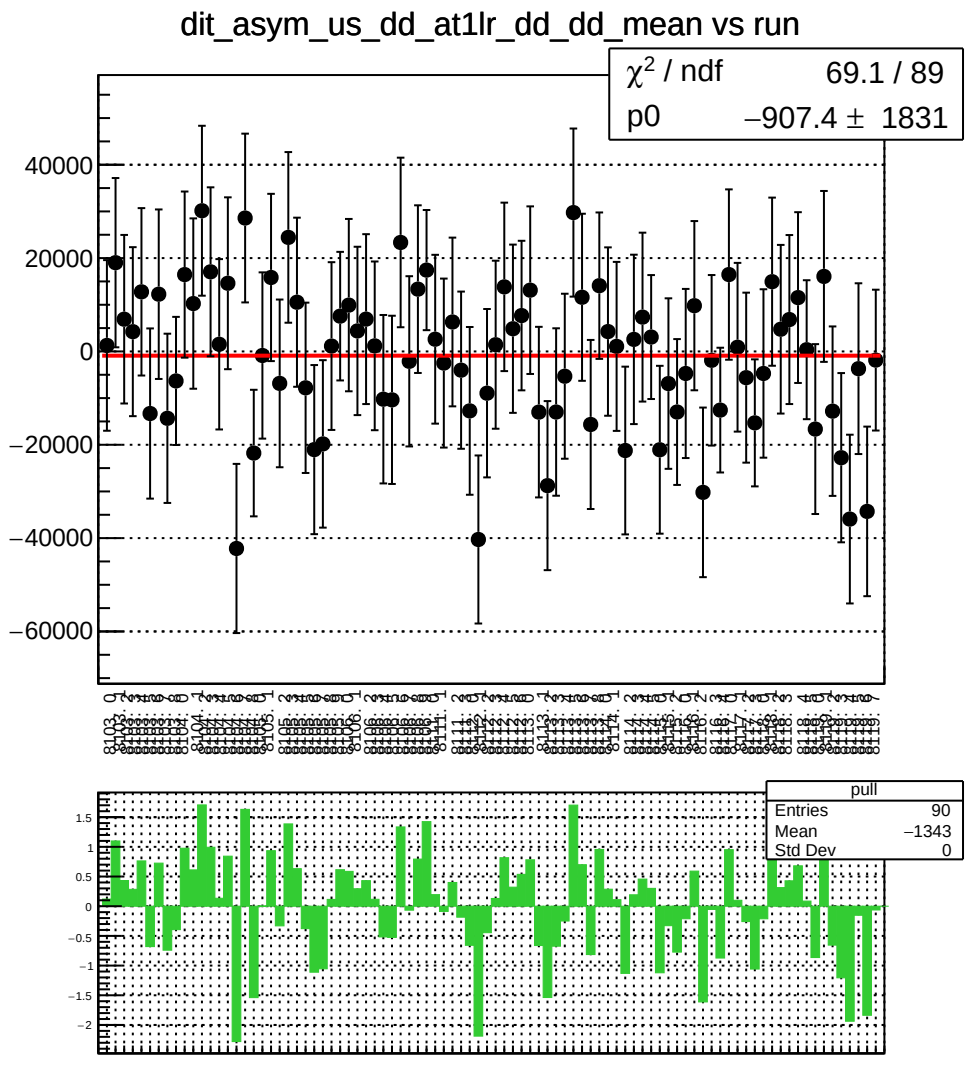

pull1D
Entries 90
Mean 0.00387
Std Dev 0.8702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

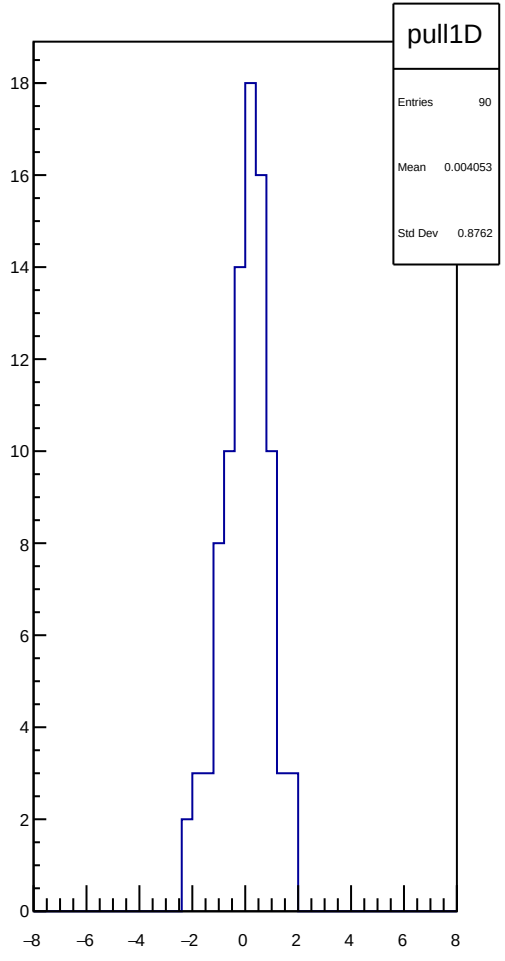

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 95.11 / 89
p0 1716 ± 1.294
1760
1740
1720
1700
1680
1660

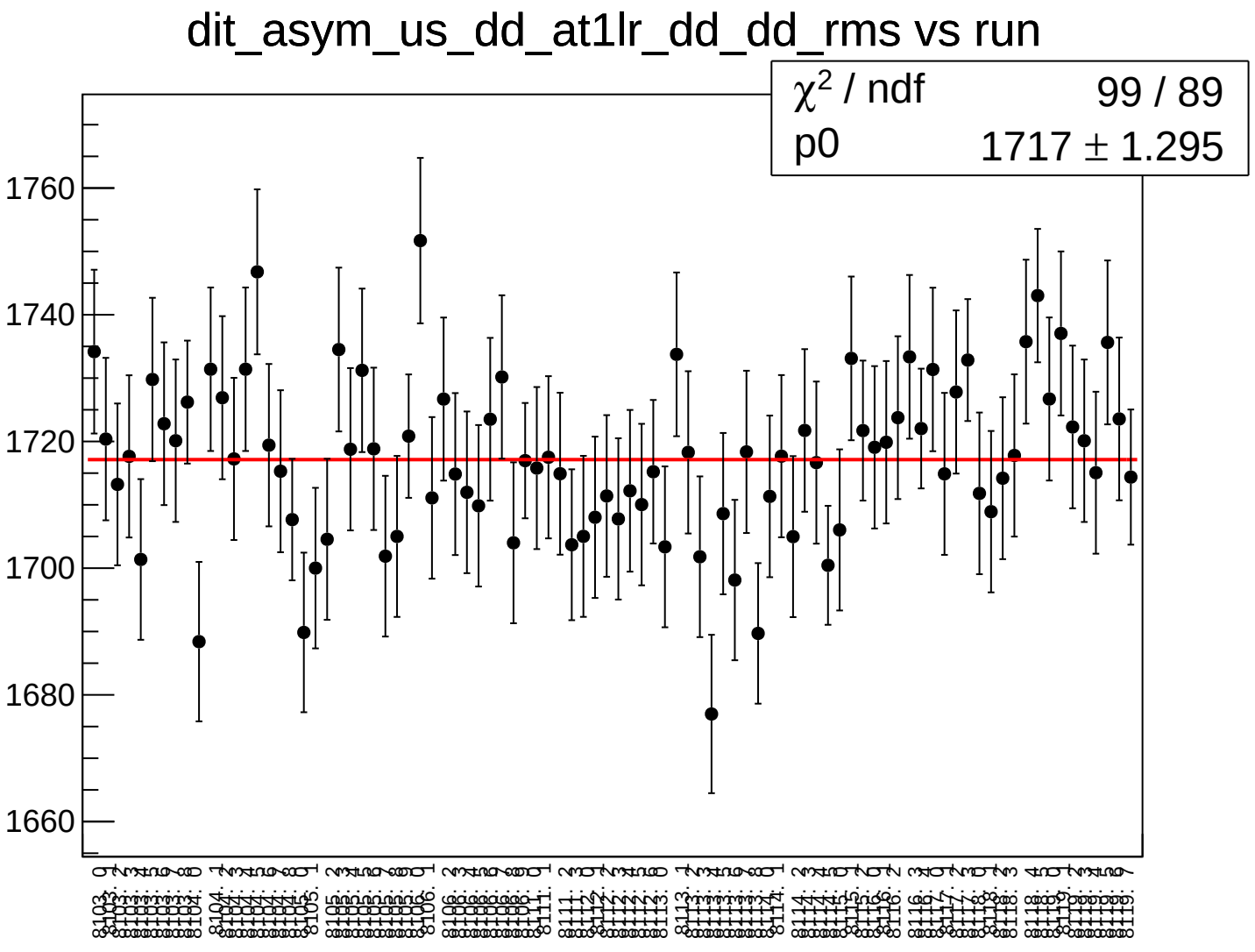

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ^2 / ndf 91.1 / 89
p0 −3433 ± 1228
pull
Entries 90
Mean −374.7
Std Dev 0

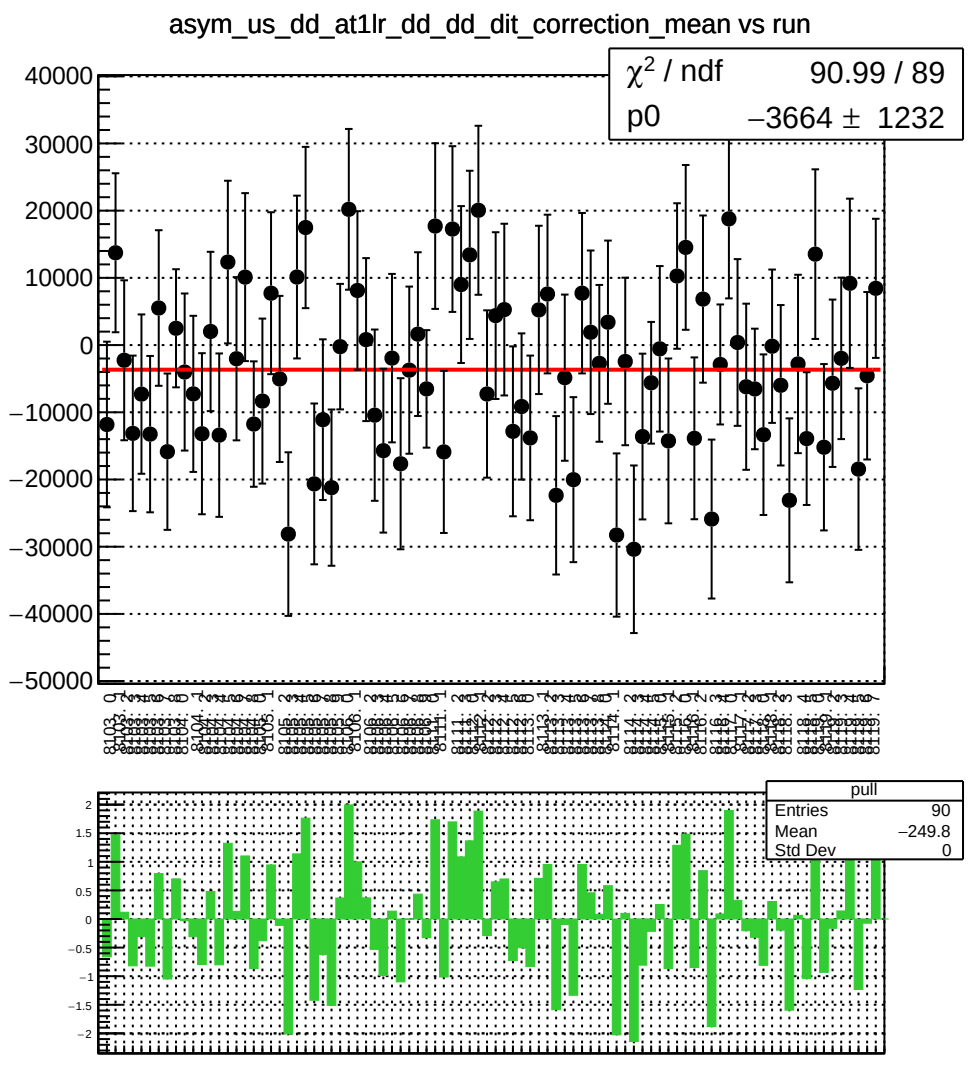

pull1D
Entries 90
Mean 0.001289
Std Dev 1.006

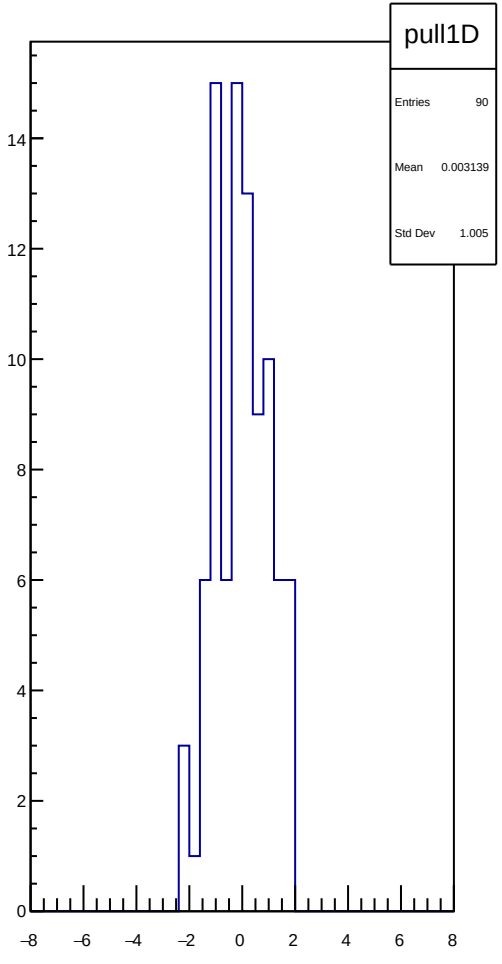

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3505 / 89
p0 1151 ± 0.8686
1300
1250
1200
1150
1100
1050
1000

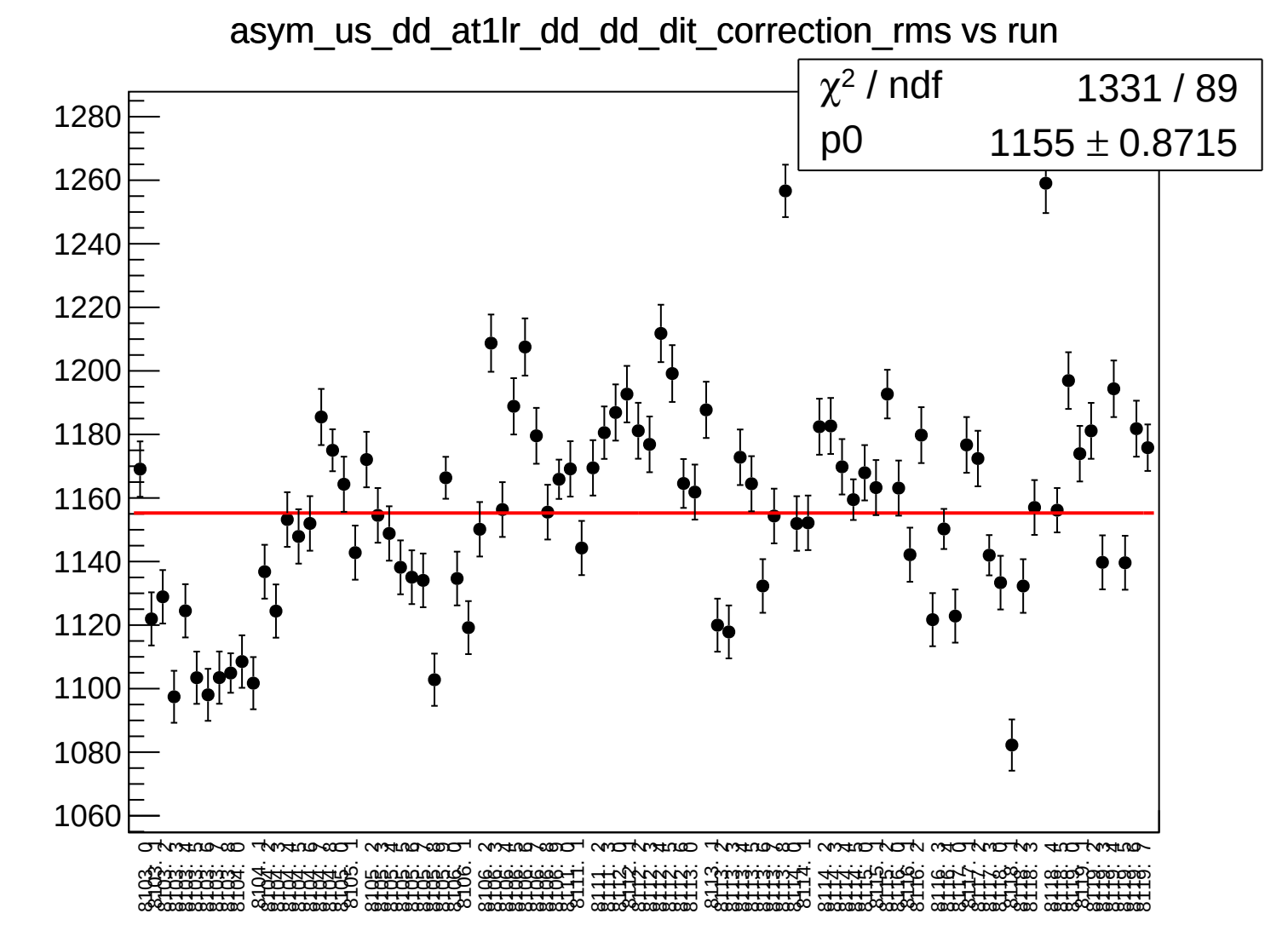

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 69.1 / 89
p0 −907.4 ± 1831
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1343
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

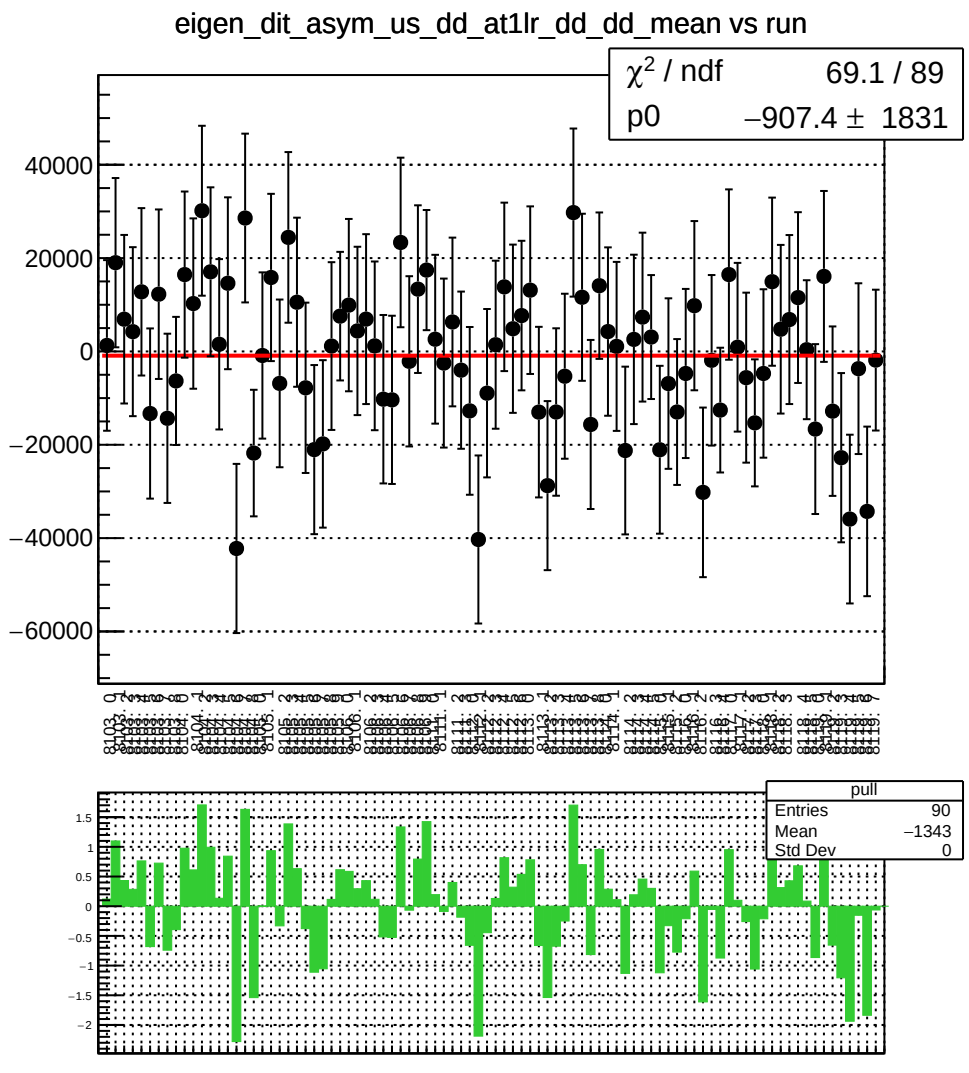

pull1D
Entries 90
Mean 0.004053
Std Dev 0.8762
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

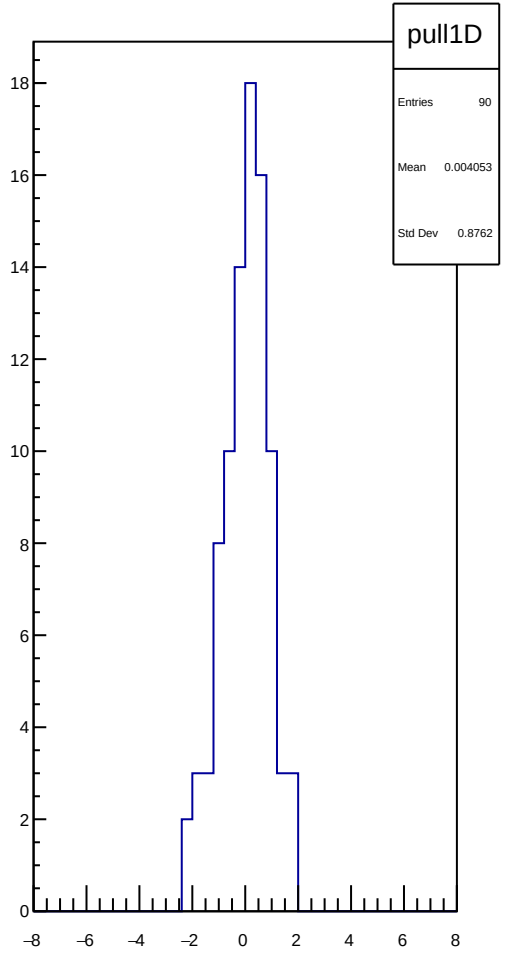

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 99 / 89
p0 1717 ± 1.295
1760
1740
1720
1700
1680
1660

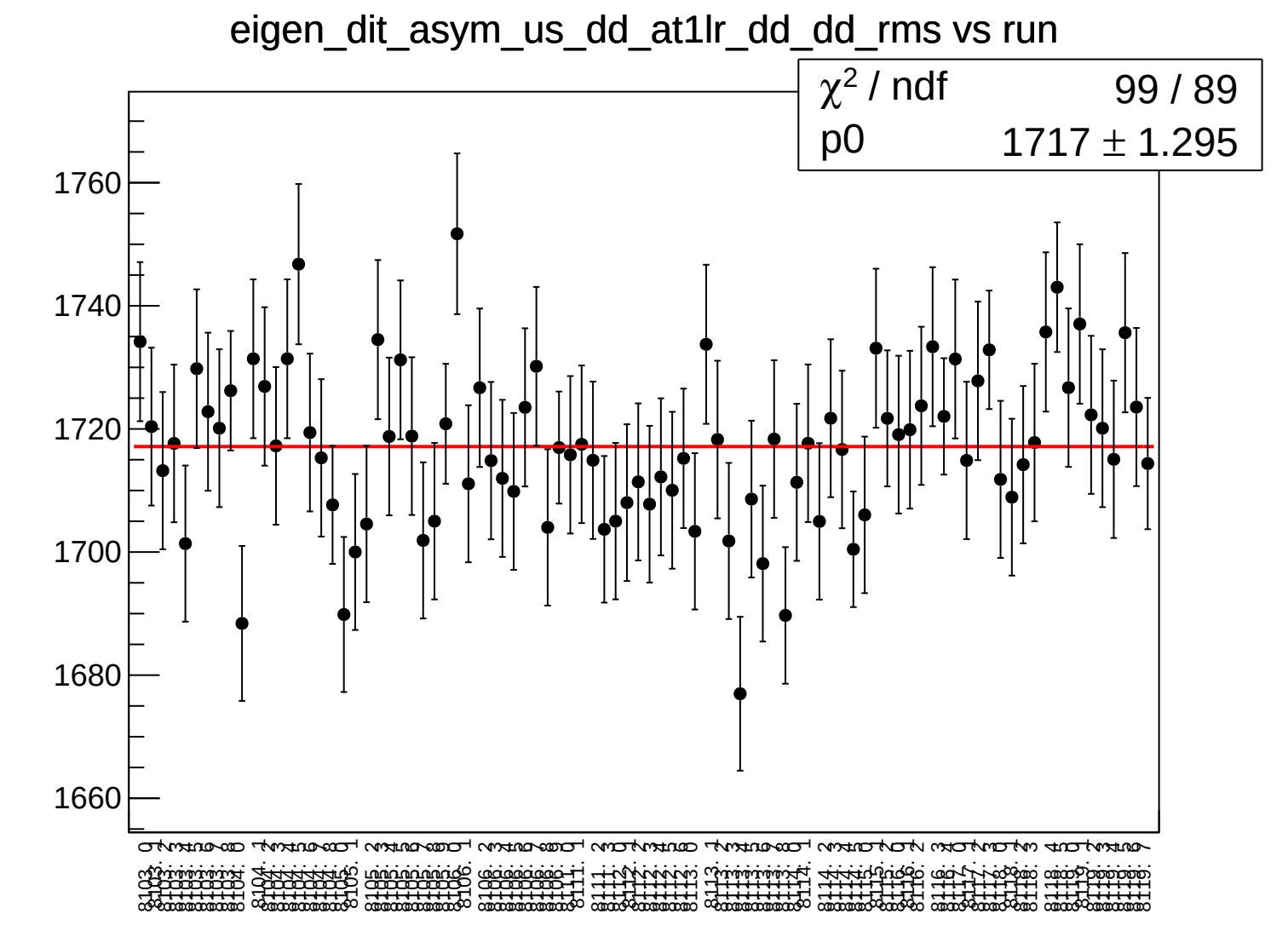

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 90.99 / 89
p0 −3664 ± 1232
pull
Entries 90
Mean −249.8
Std Dev 0

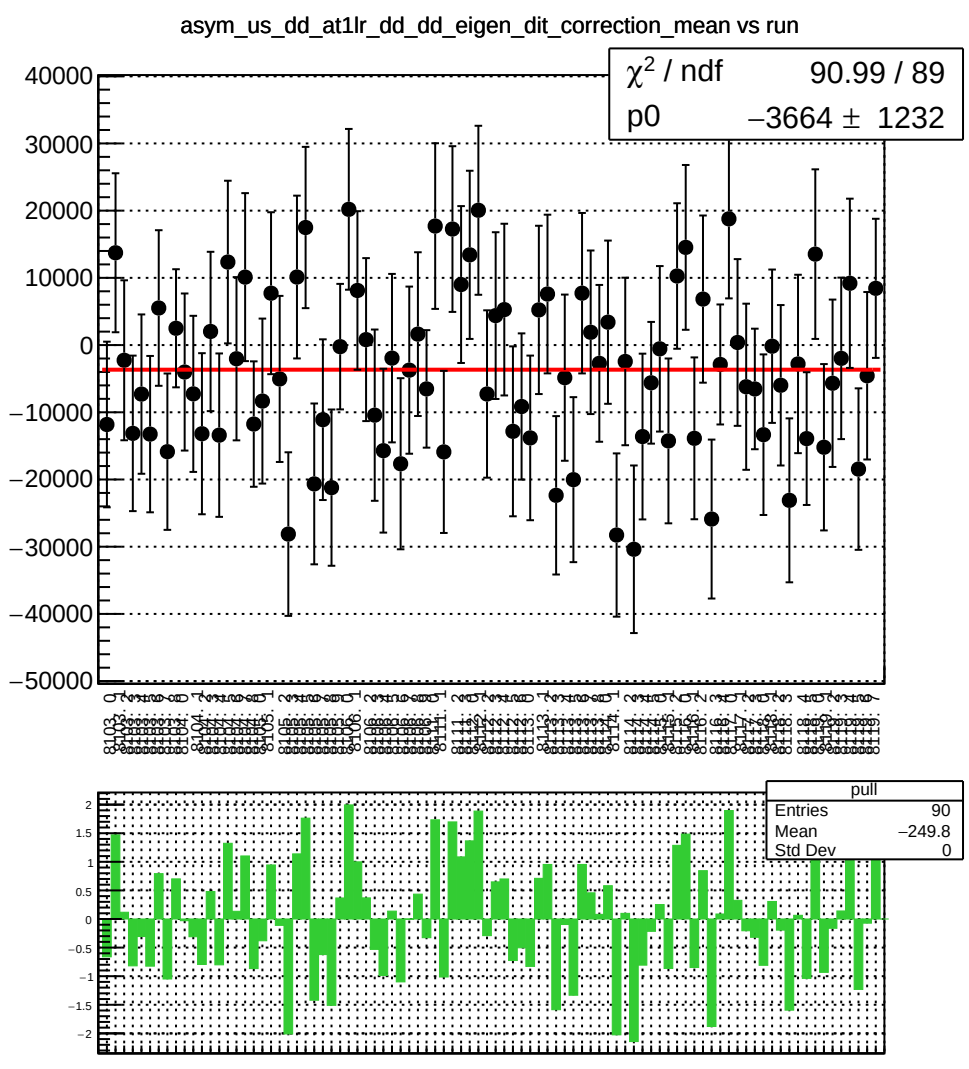

pull1D
Entries 90
Mean 0.003139
Std Dev 1.005

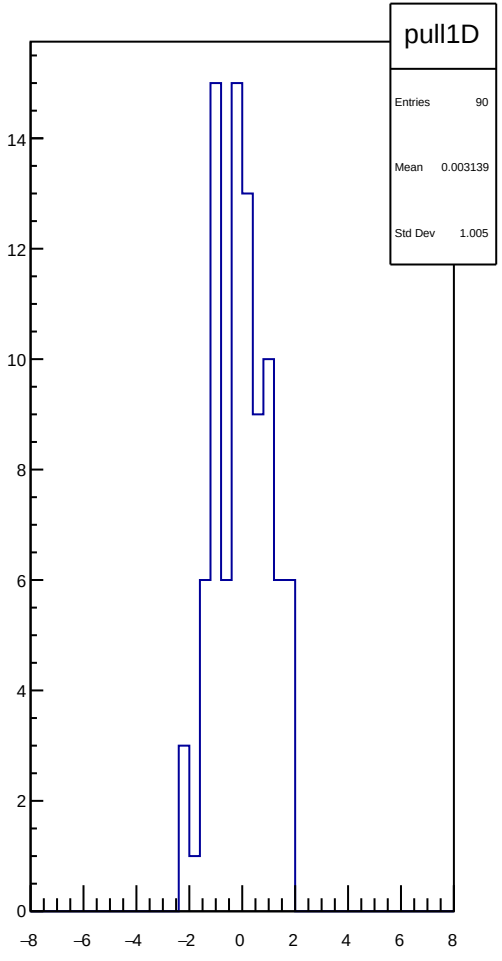

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1331 / 89
p0 1155 ± 0.8715
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

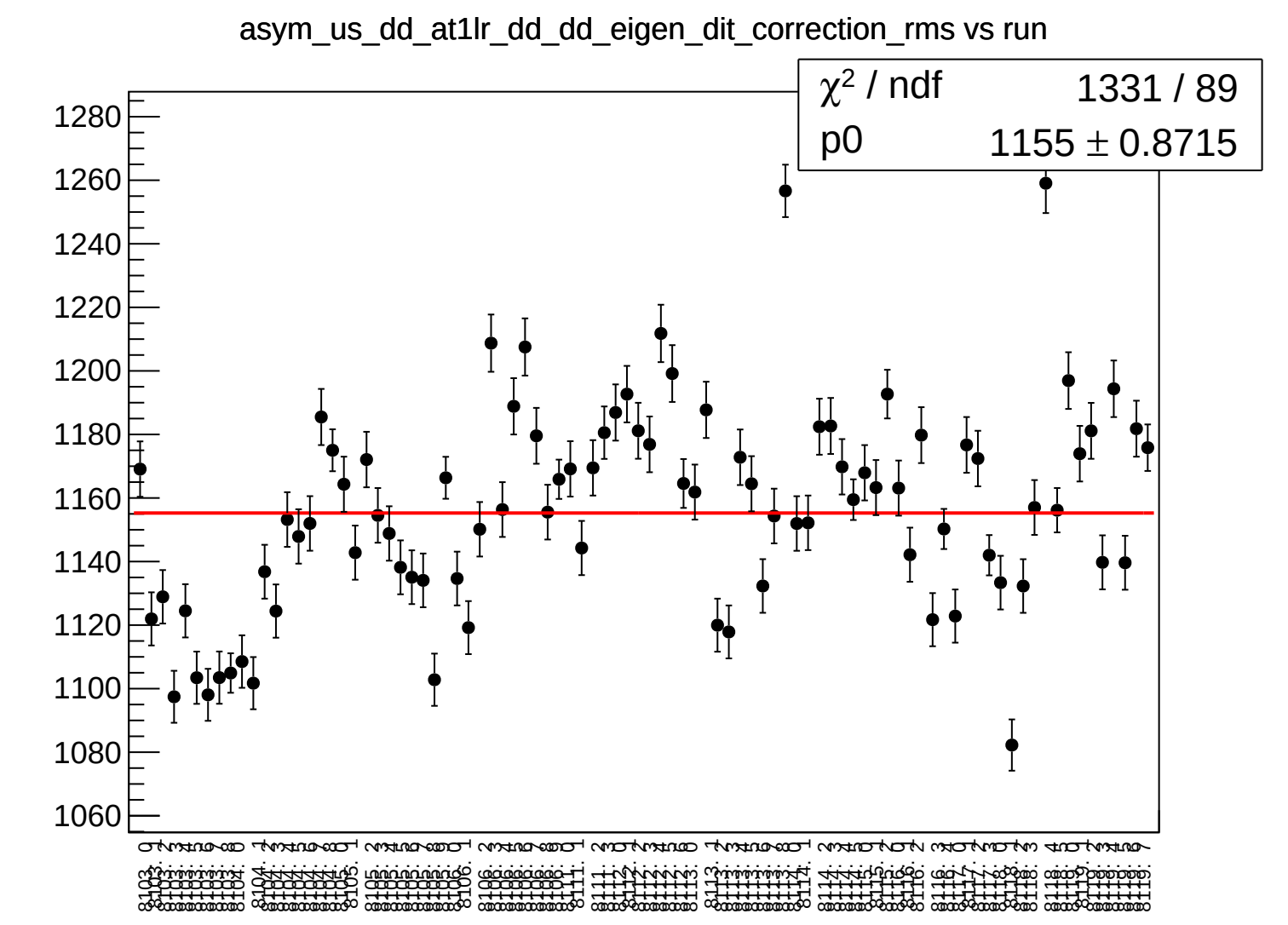

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 69.1 / 89
p0 −907.4 ± 1831
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1343
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

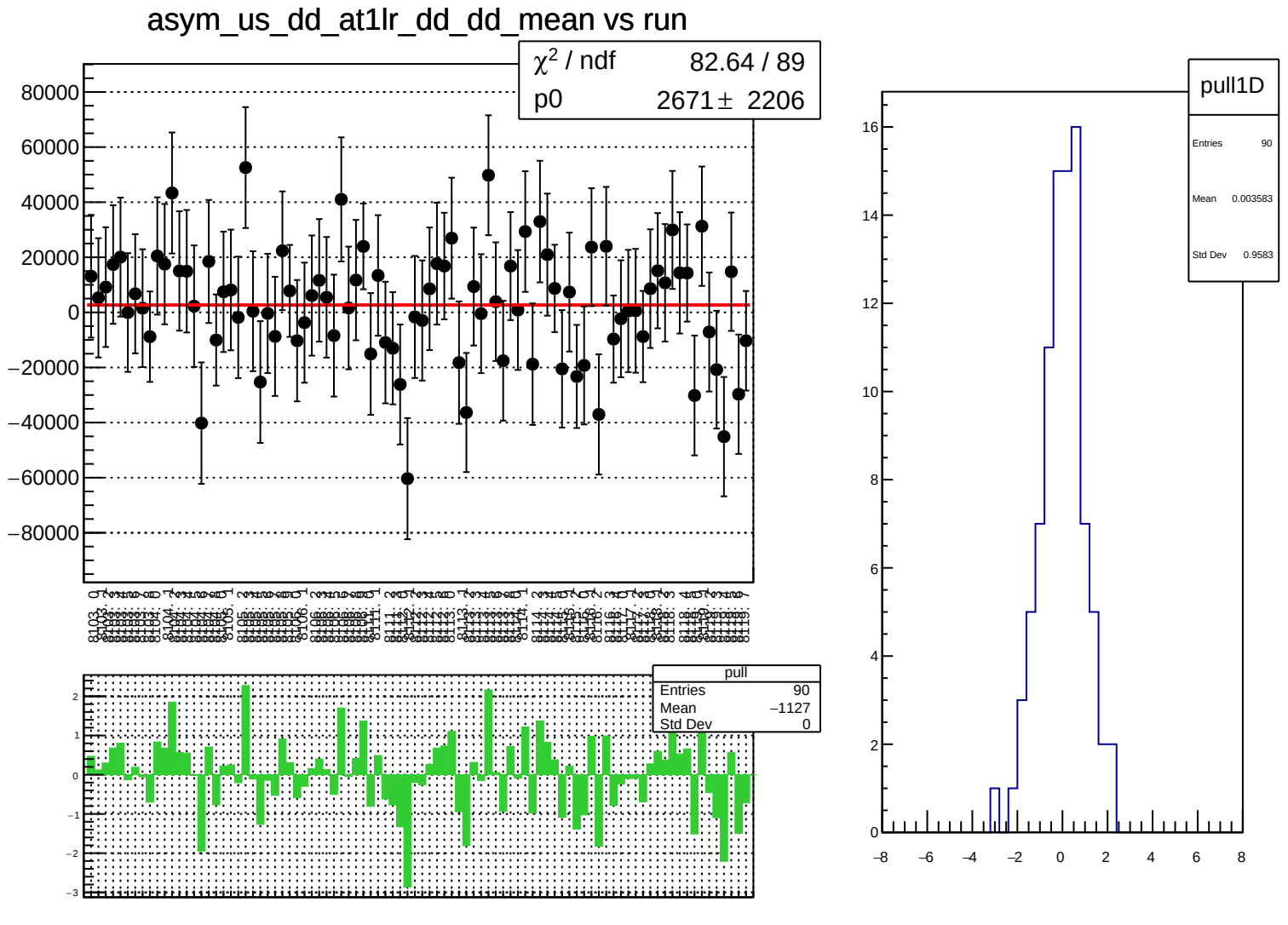

pull1D
Entries 90
Mean 0.004053
Std Dev 0.8762
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

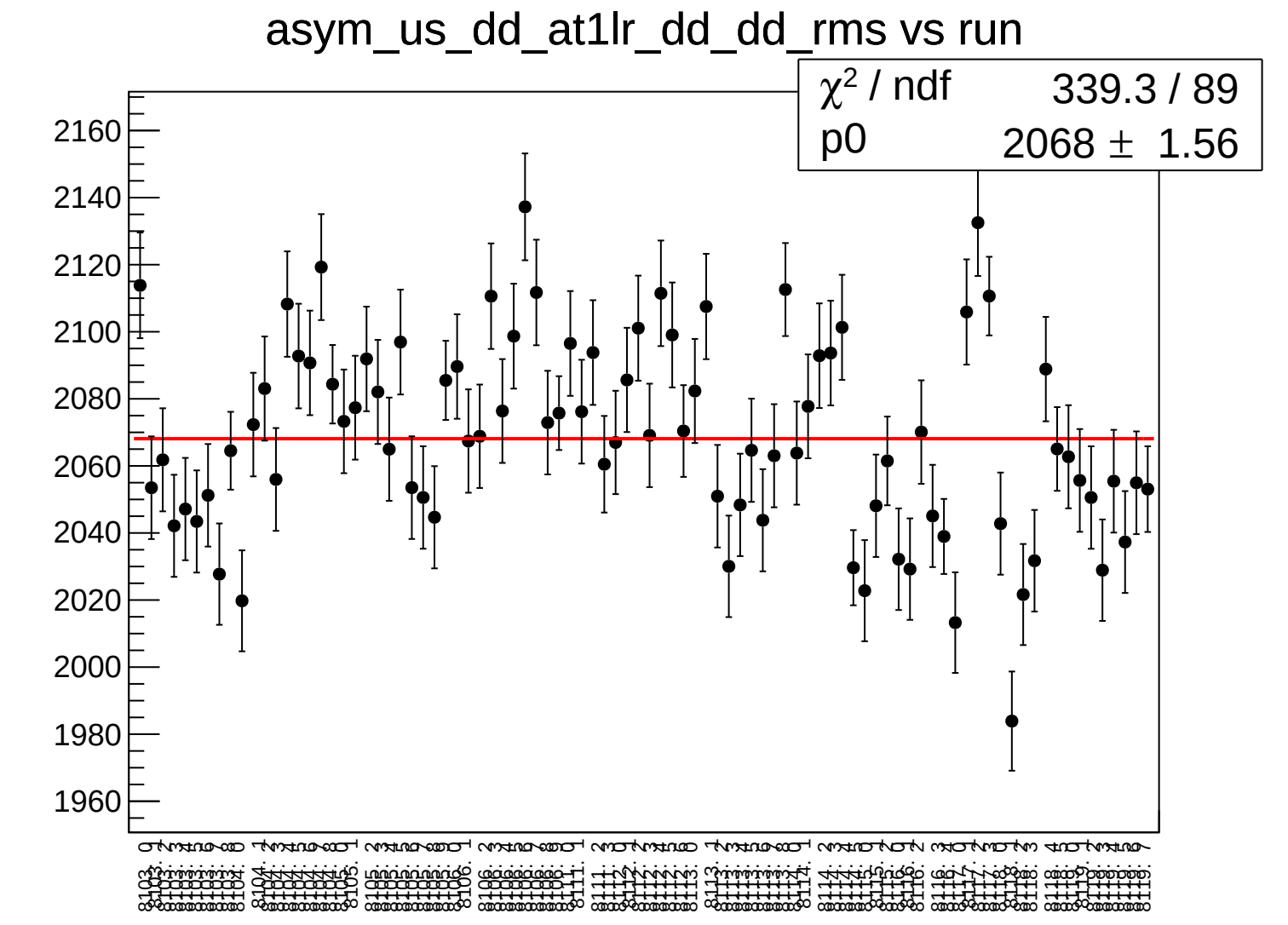

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 99 / 89
p0 1717 ± 1.295
1760
1740
1720
1700
1680
1660

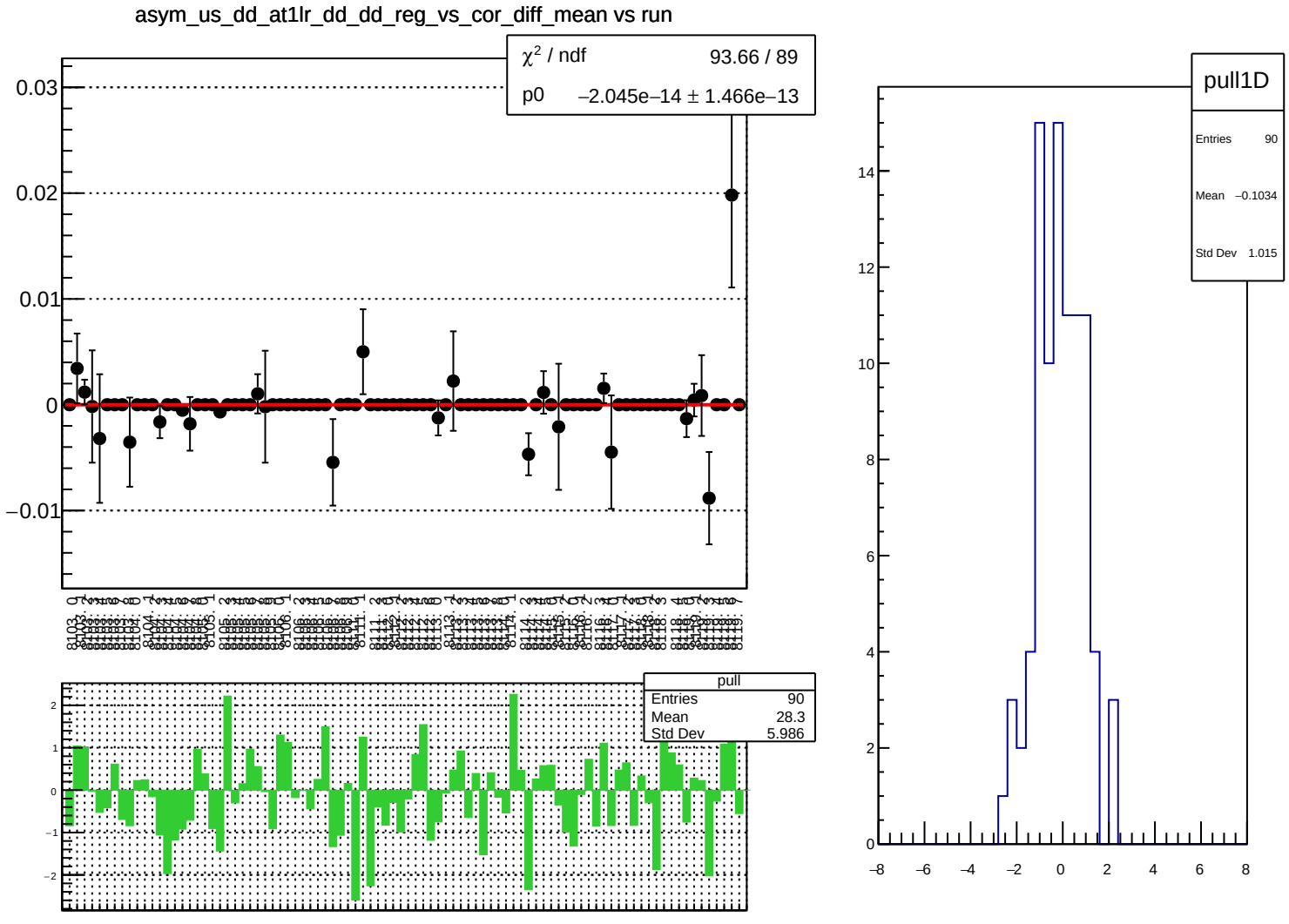

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.99 / 89
p0 −3664 ± 1232
pull
Entries 90
Mean −249.8
Std Dev 0

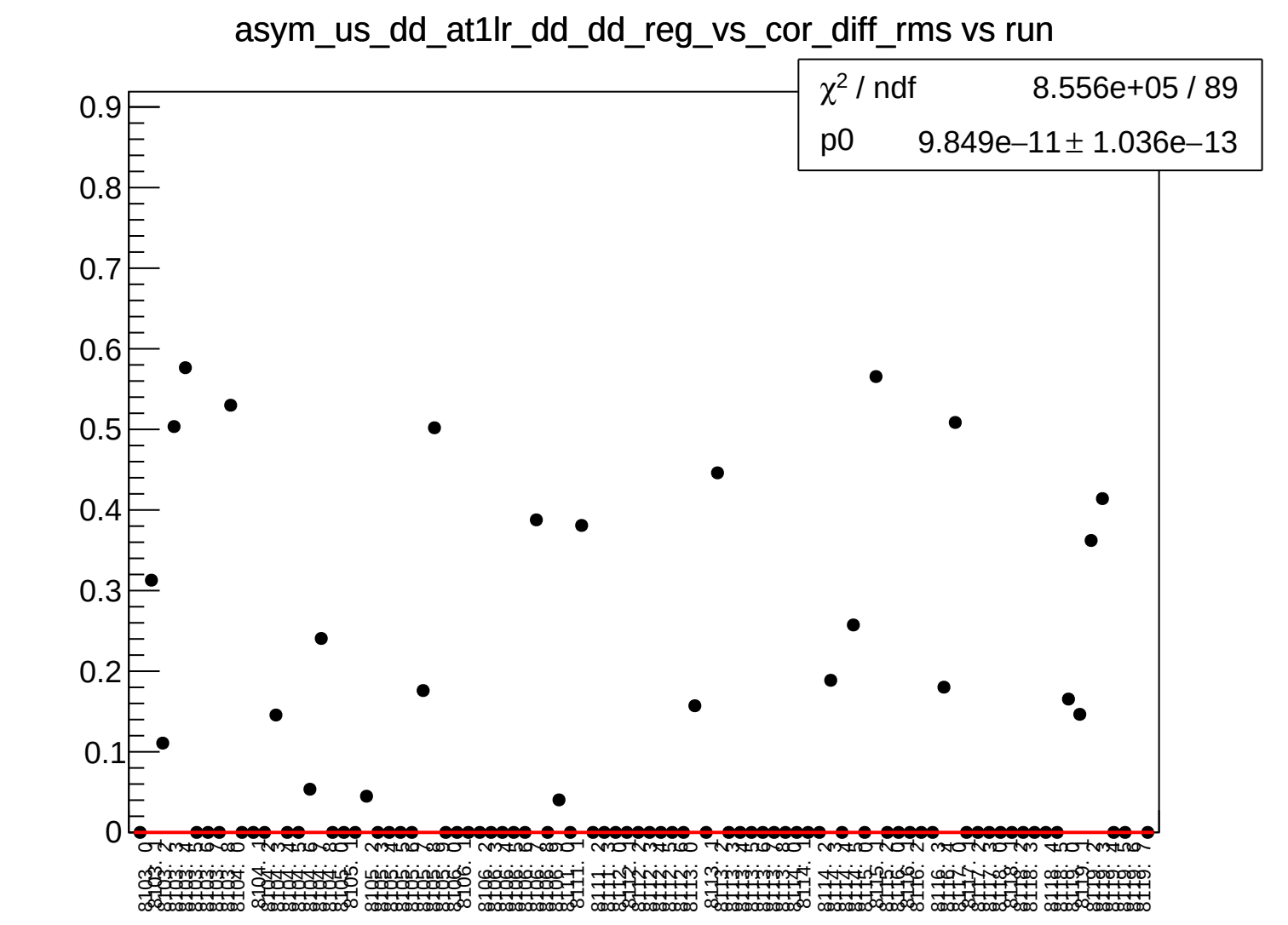

pull1D
Entries 90
Mean 0.003139
Std Dev 1.005

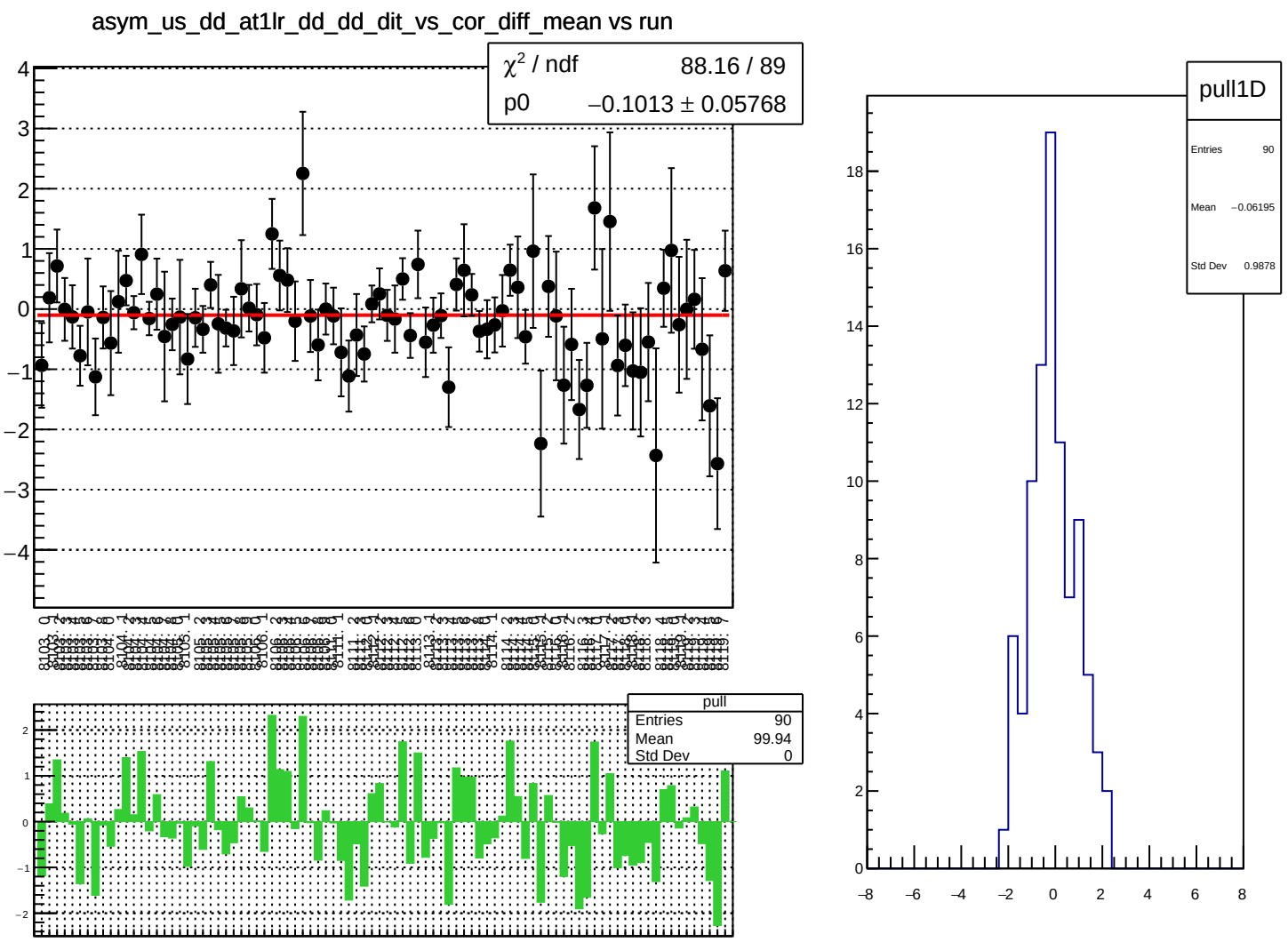

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1331 / 89
p0 1155 ± 0.8715
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

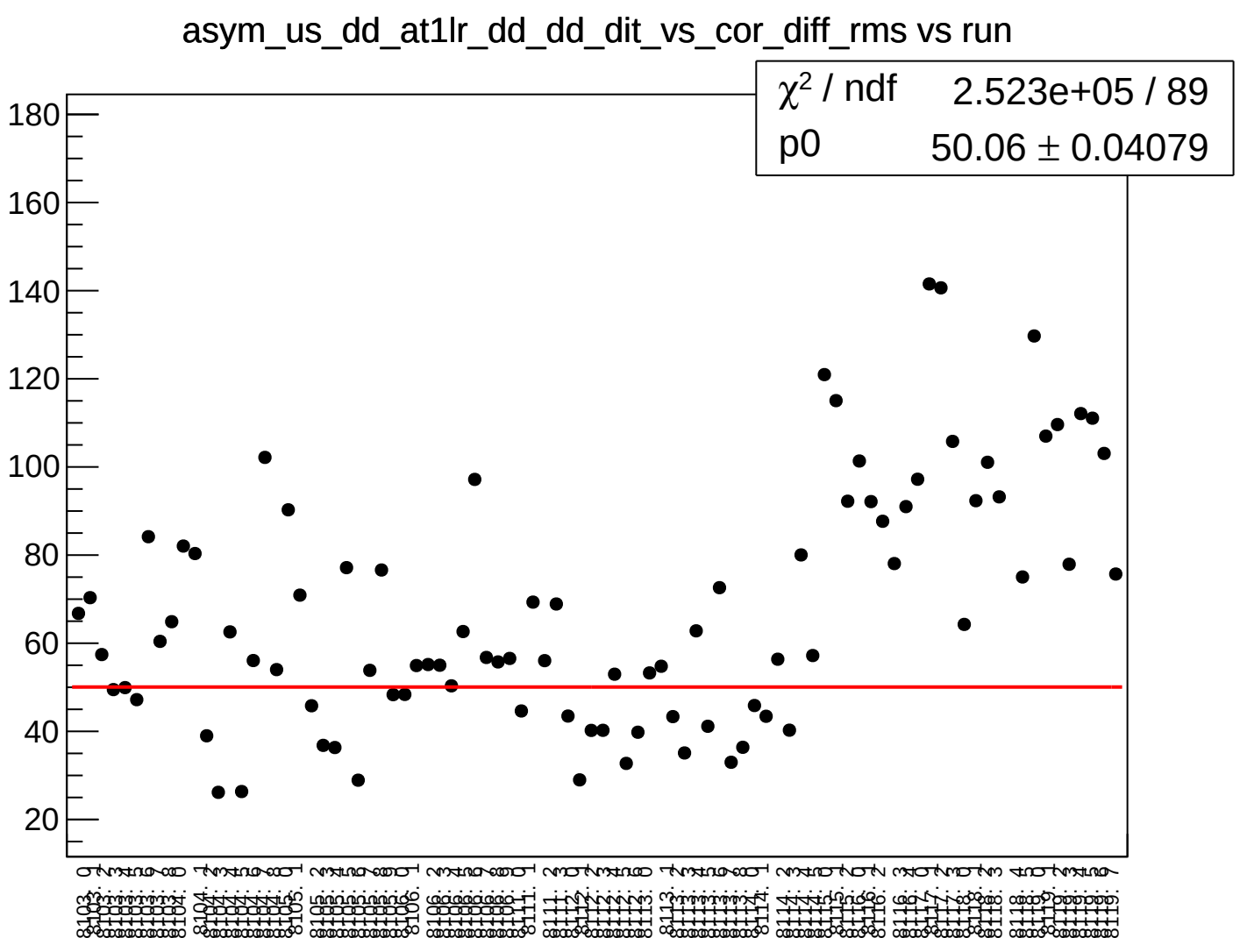

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.64 / 89
p0 2671 ± 2206
pull
Entries 90
Mean −1127
Std Dev 0
pull1D
Entries 90
Mean 0.003583
Std Dev 0.9583

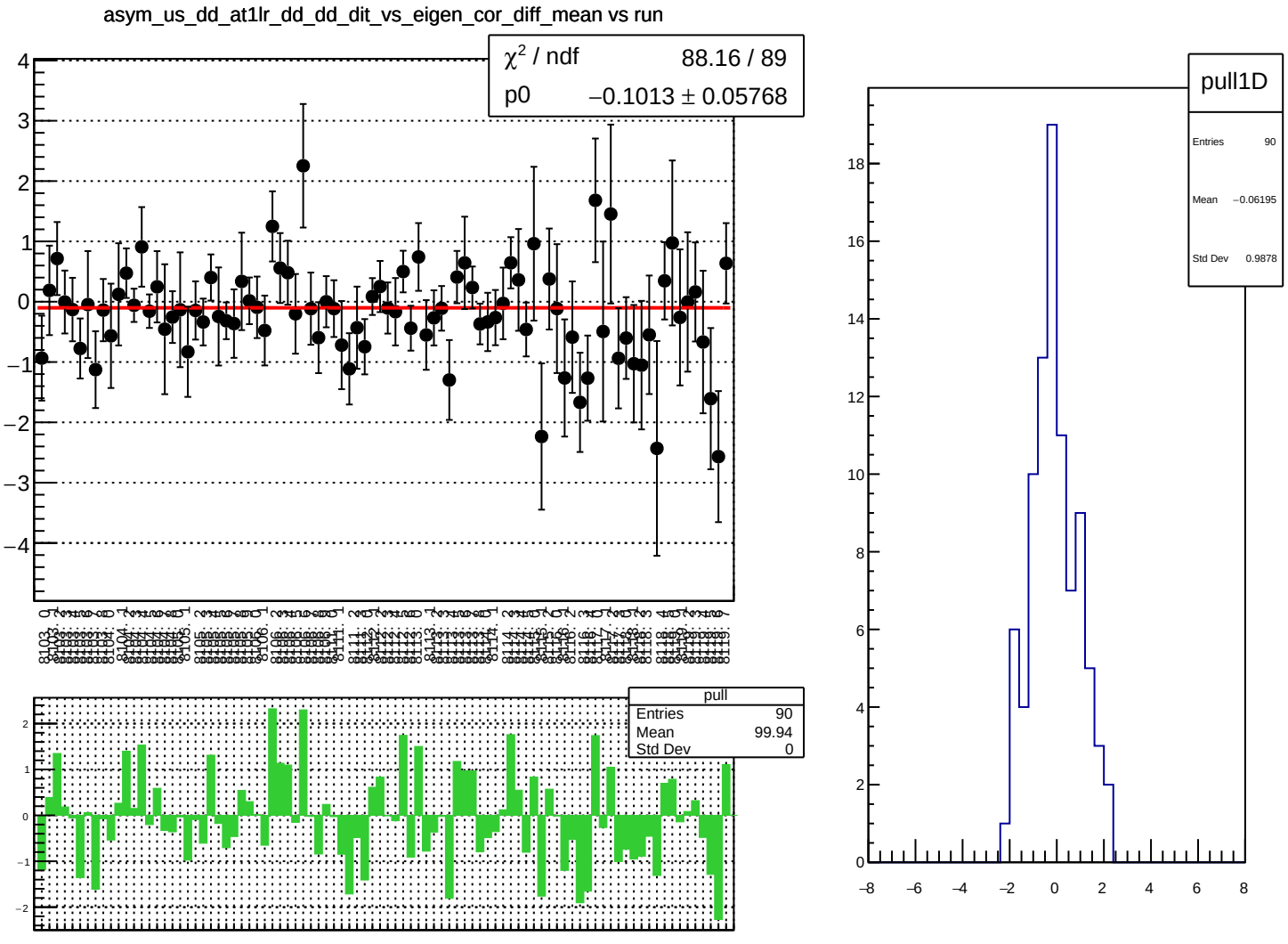

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 339.3 / 89
p0 2068 ± 1.56
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
1960

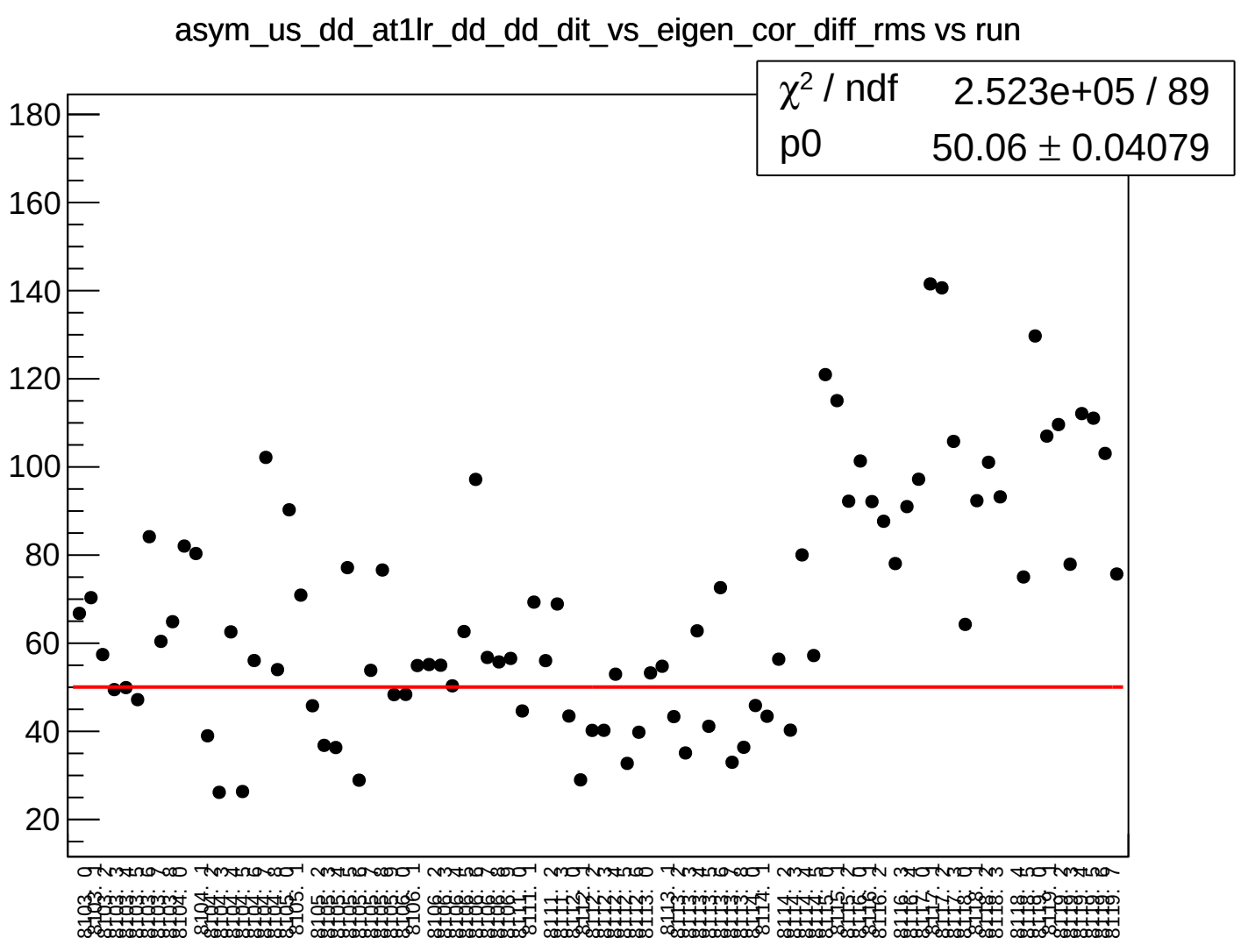

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.66 / 89
p0 −2.045e−14 ± 1.466e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 90
Mean 28.3
Std Dev 5.986
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.1034
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

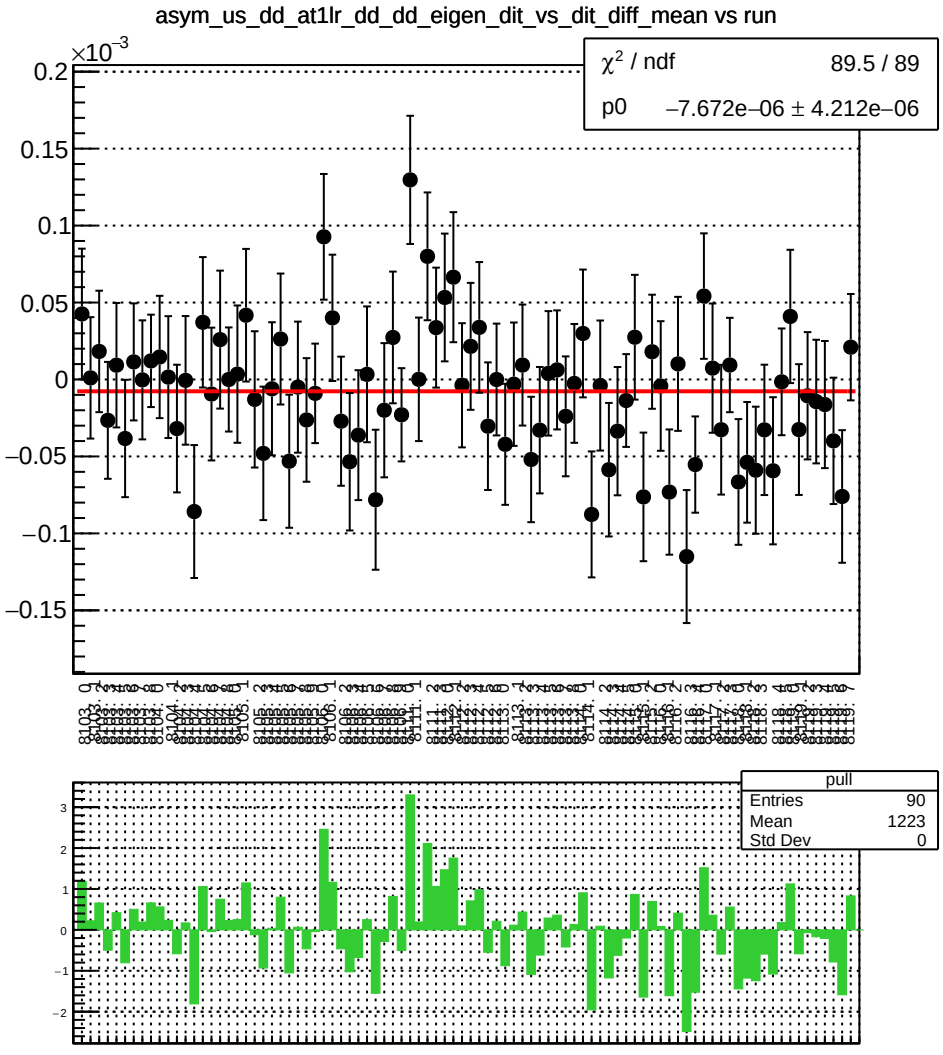

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.556e+05 / 89
p0 9.849e−11 ± 1.036e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

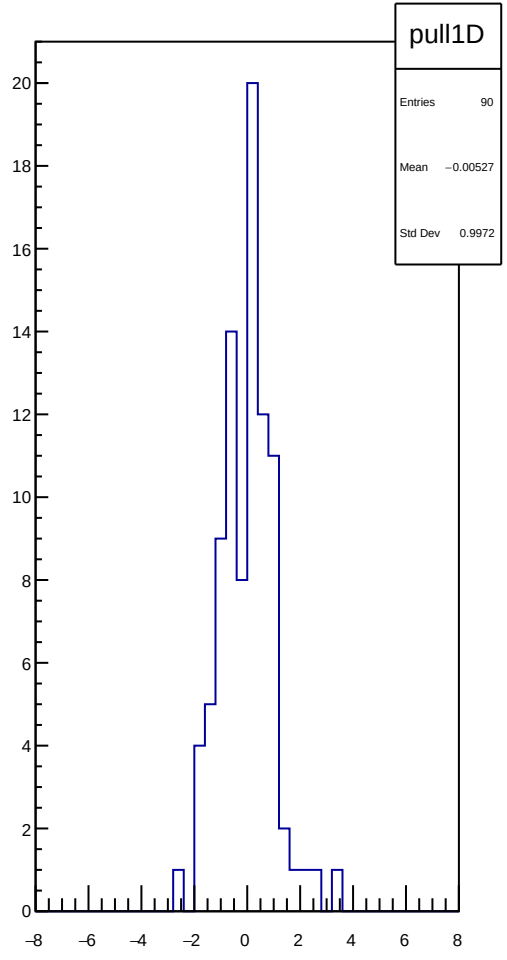

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.16 / 89
p0 −0.1013 ± 0.05768
pull
Entries 90
Mean 99.94
Std Dev 0
pull1D
Entries 90
Mean −0.06195
Std Dev 0.9878

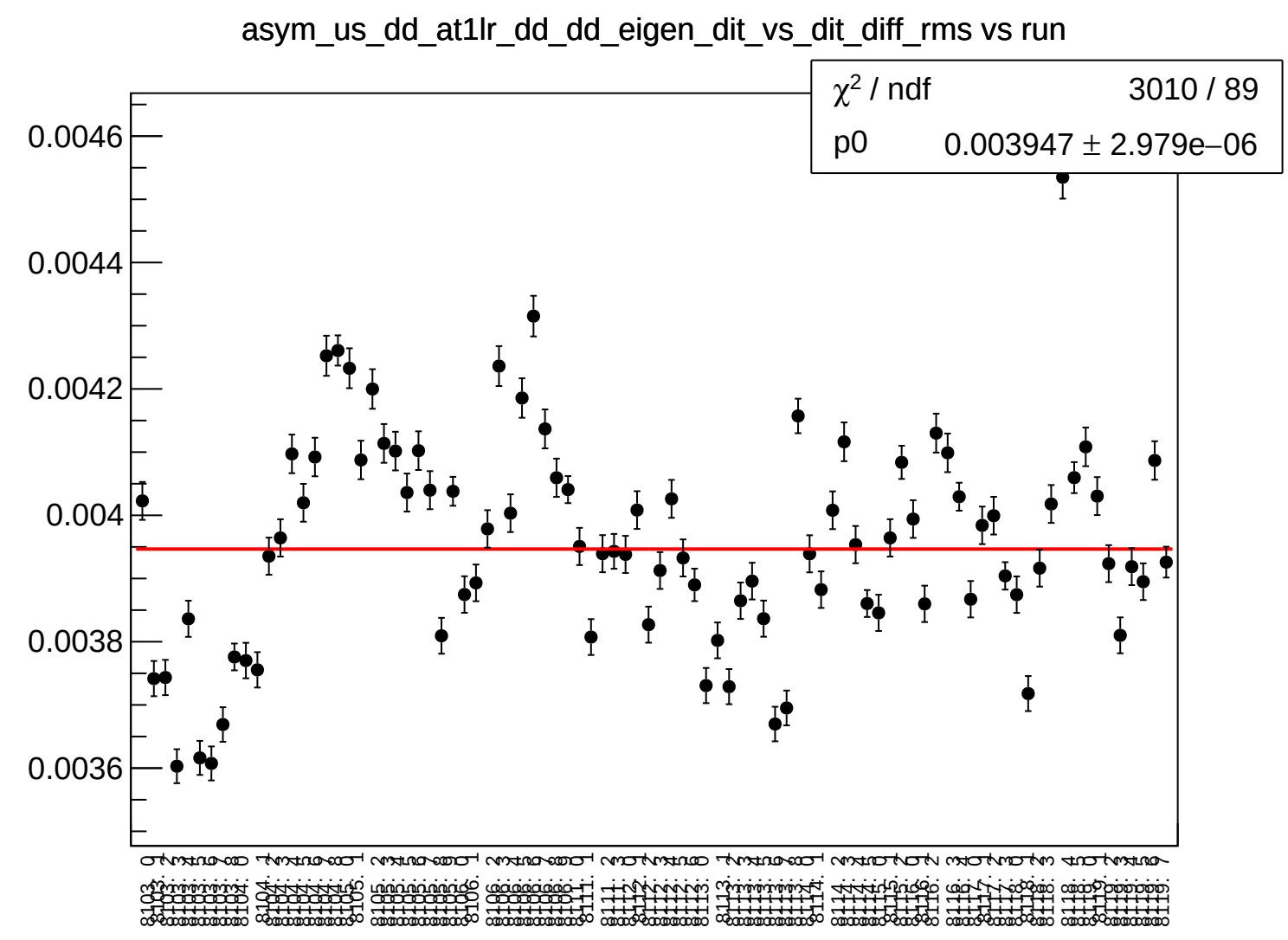

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 89
p0 50.06 ± 0.04079
180
160
140
120
100
80
60
40
20

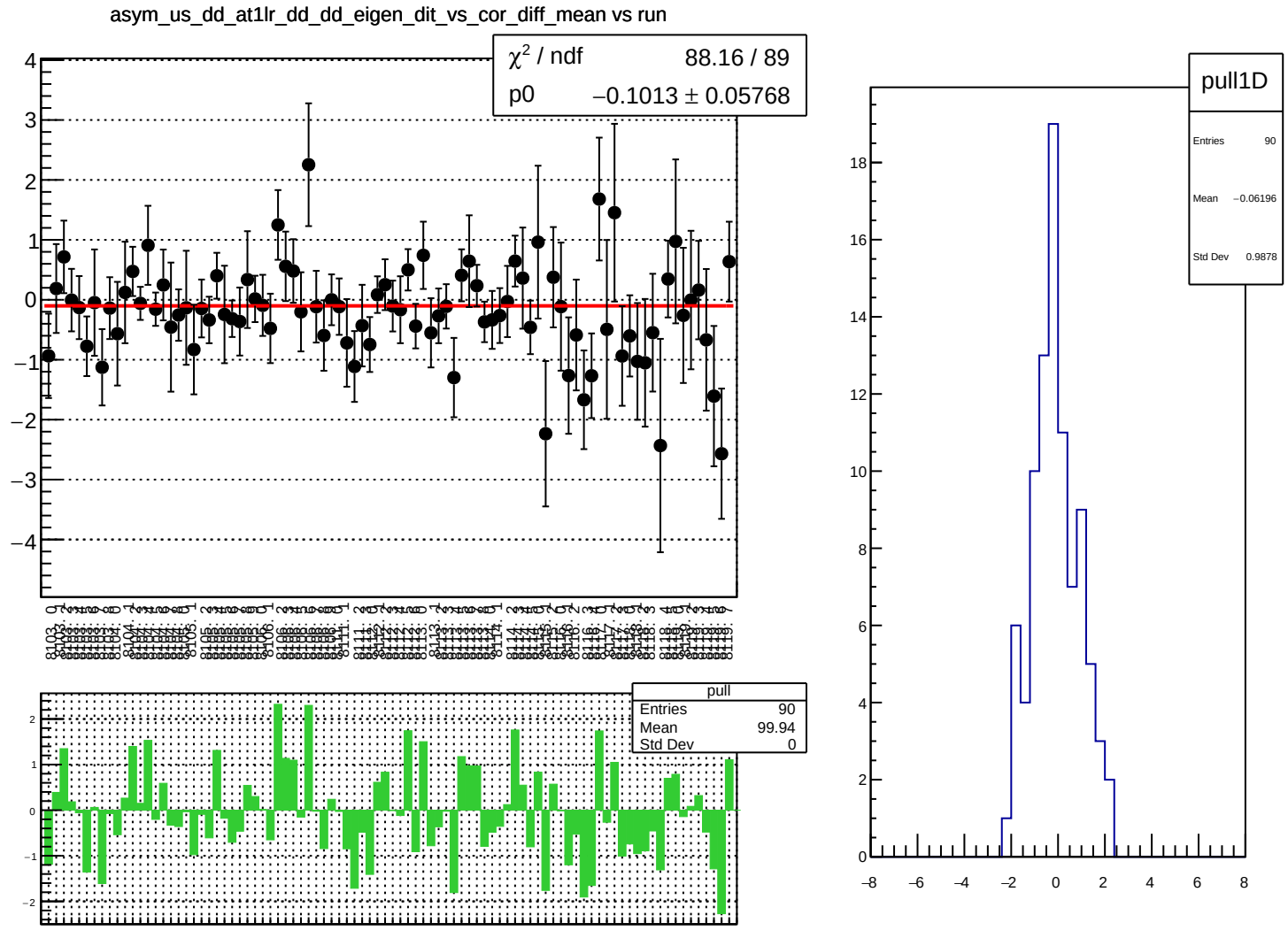

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.16 / 89
p0 −0.1013 ± 0.05768
pull
Entries 90
Mean 99.94
Std Dev 0
pull1D
Entries 90
Mean −0.06195
Std Dev 0.9878

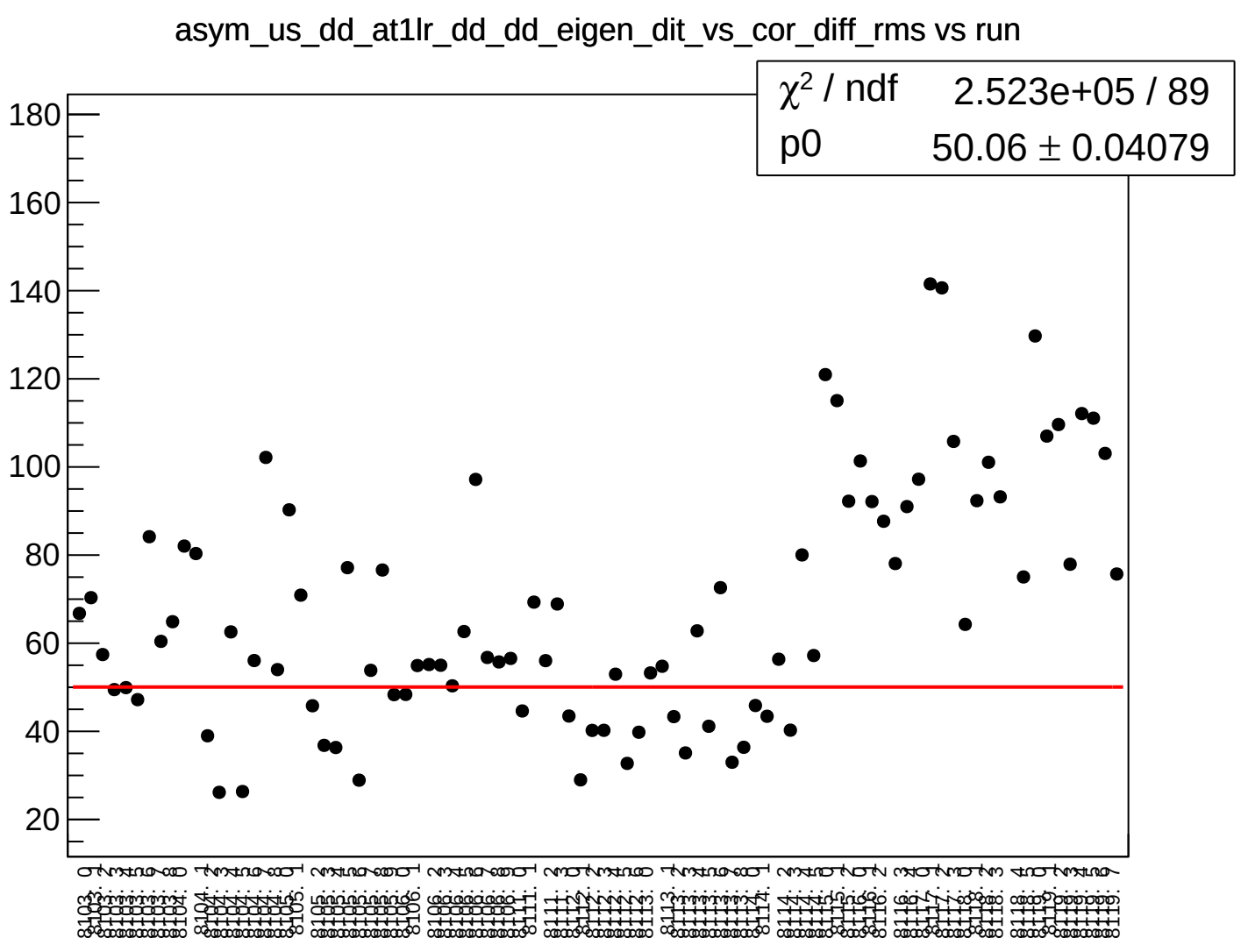

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 89
p0 50.06 ± 0.04079
180
160
140
120
100
80
60
40
20

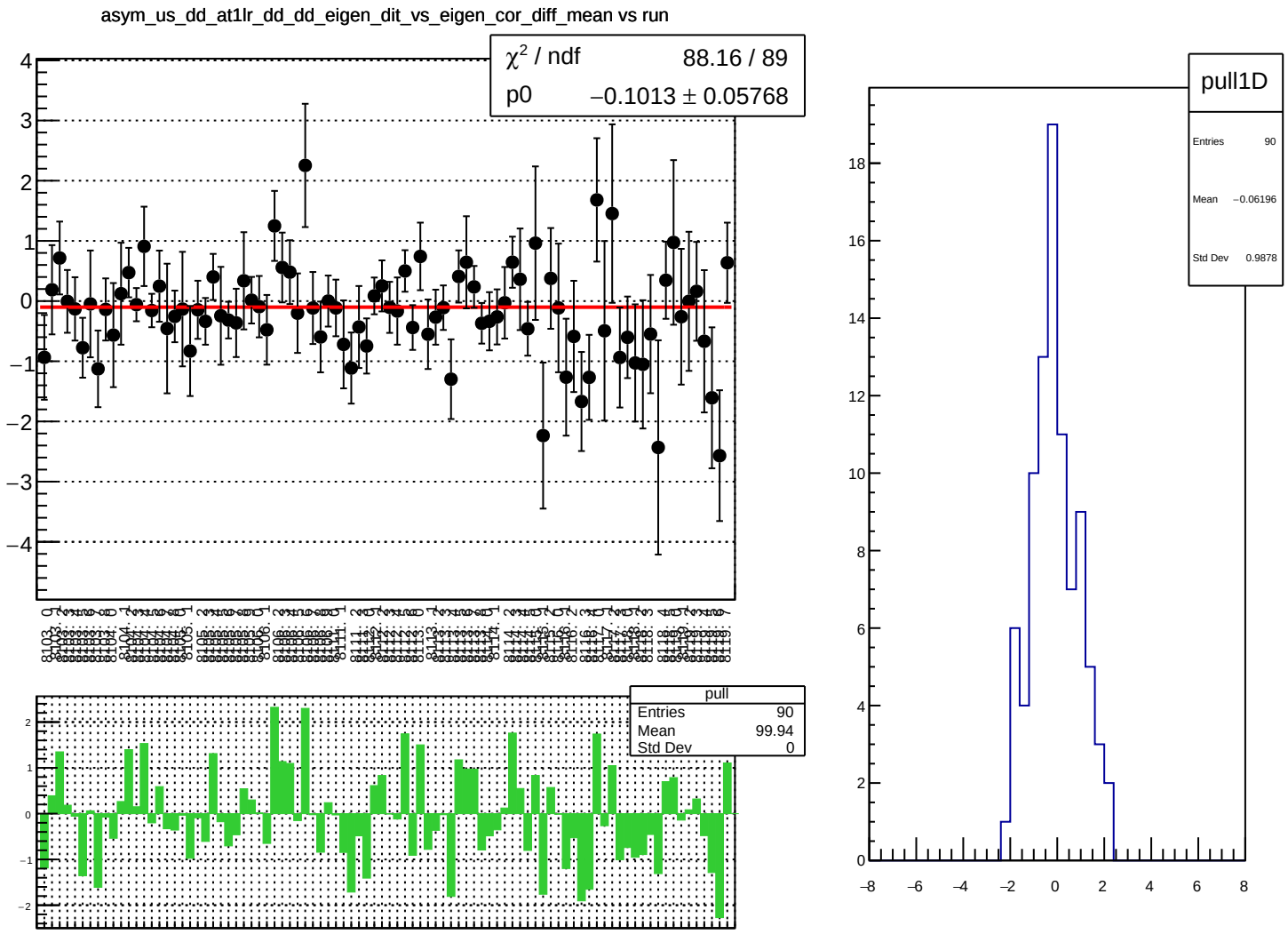

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.5 / 89
p0 −7.672e−06 ± 4.212e−06
pull
Entries 90
Mean 1223
Std Dev 0

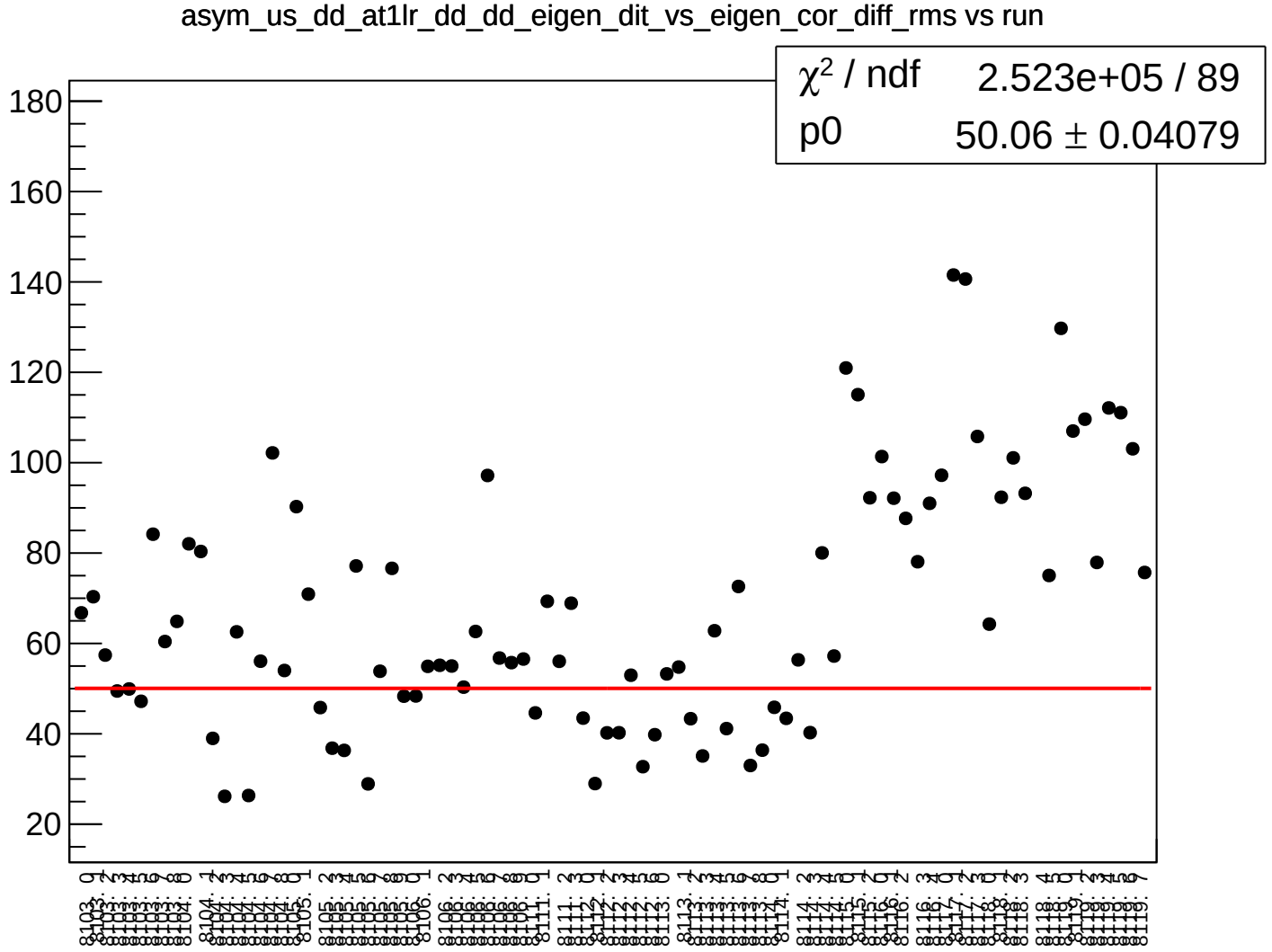

pull1D
Entries 90
Mean −0.00527
Std Dev 0.9972

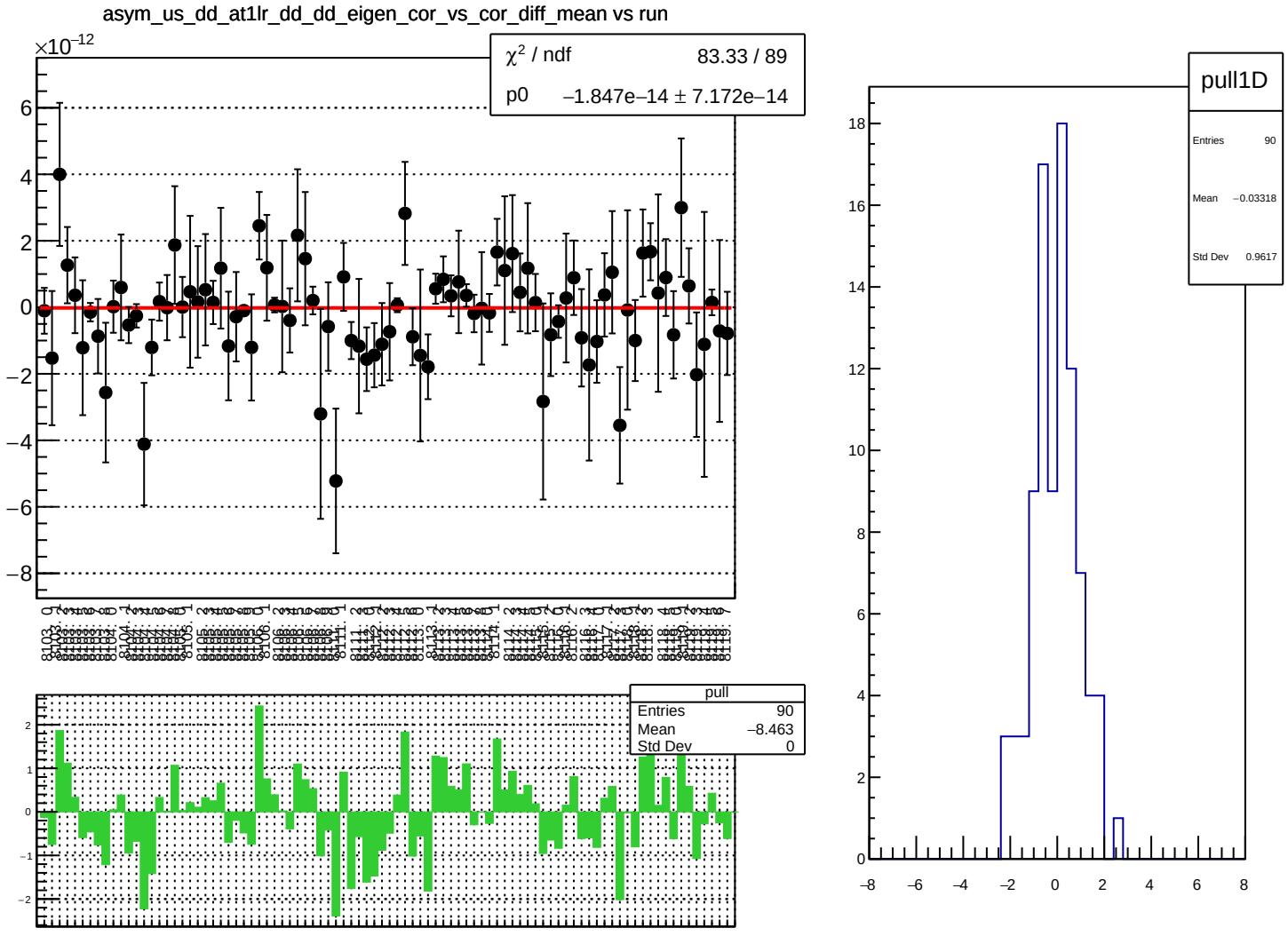

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3010 / 89
p0 0.003947 ± 2.979e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

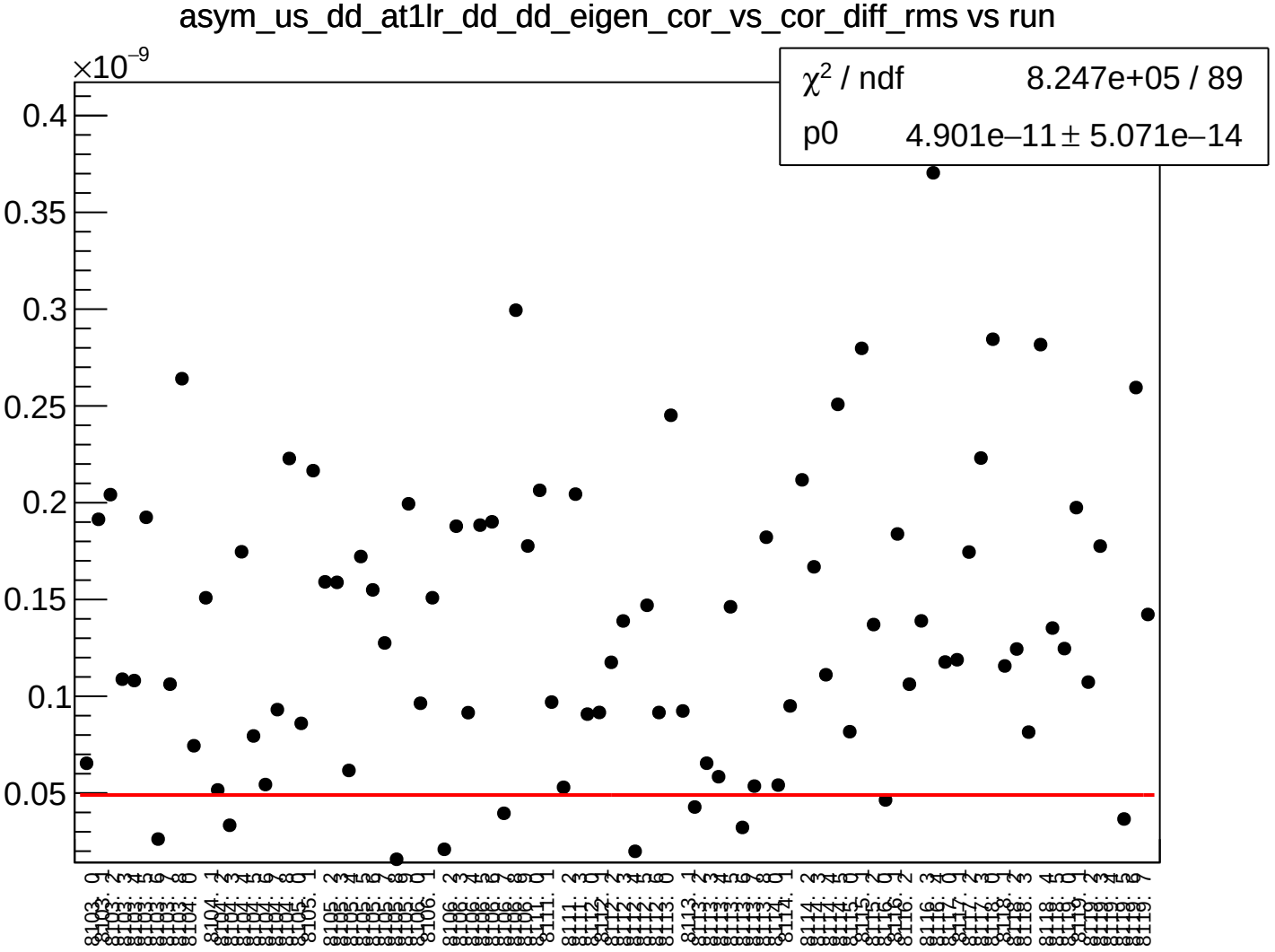

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.16 / 89
p0 −0.1013 ± 0.05768
pull
Entries 90
Mean 99.94
Std Dev 0
pull1D
Entries 90
Mean −0.06196
Std Dev 0.9878

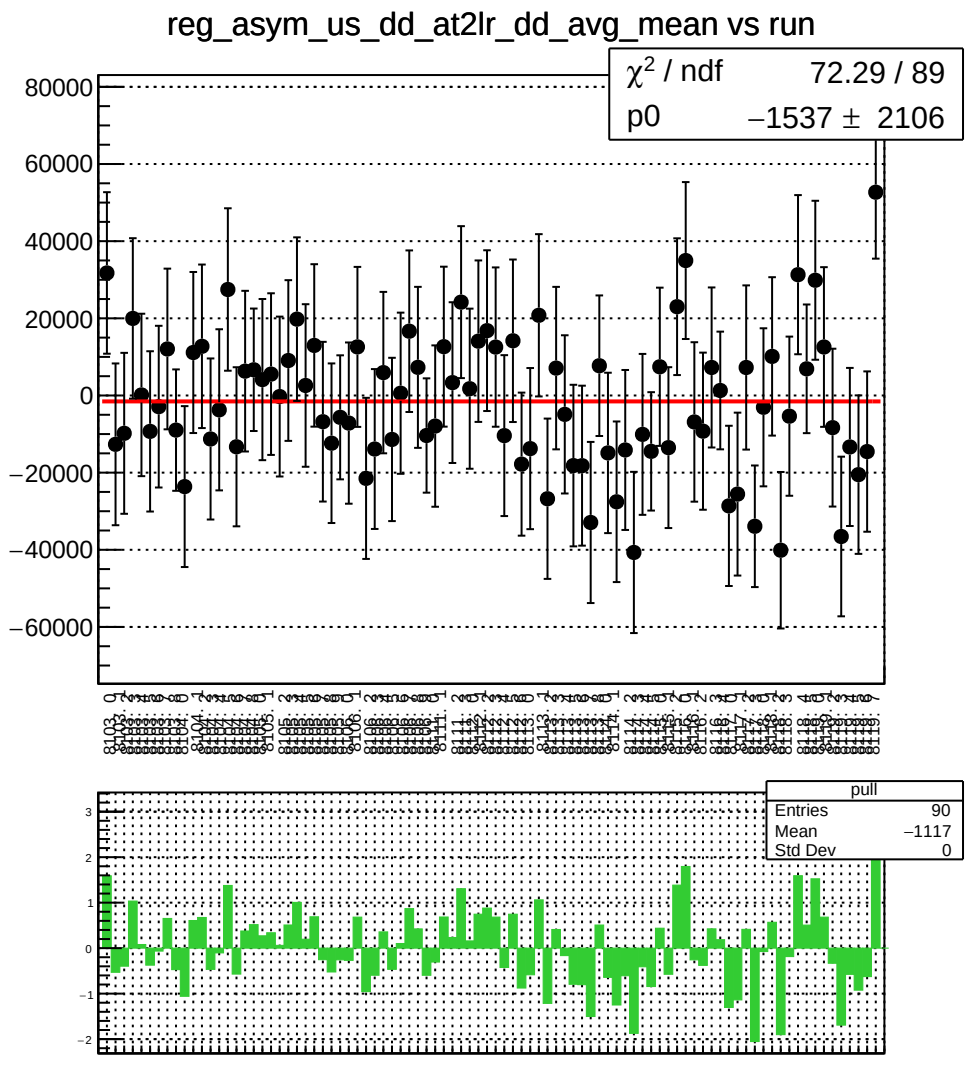

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 89
p0 50.06 ± 0.04079
180
160
140
120
100
80
60
40
20

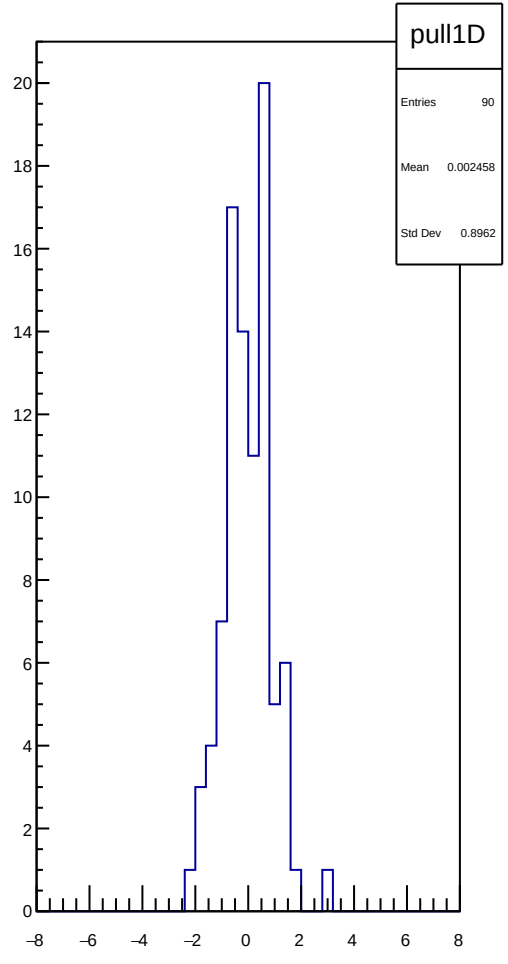

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.16 / 89
p0 −0.1013 ± 0.05768
pull
Entries 90
Mean 99.94
Std Dev 0
pull1D
Entries 90
Mean −0.06196
Std Dev 0.9878

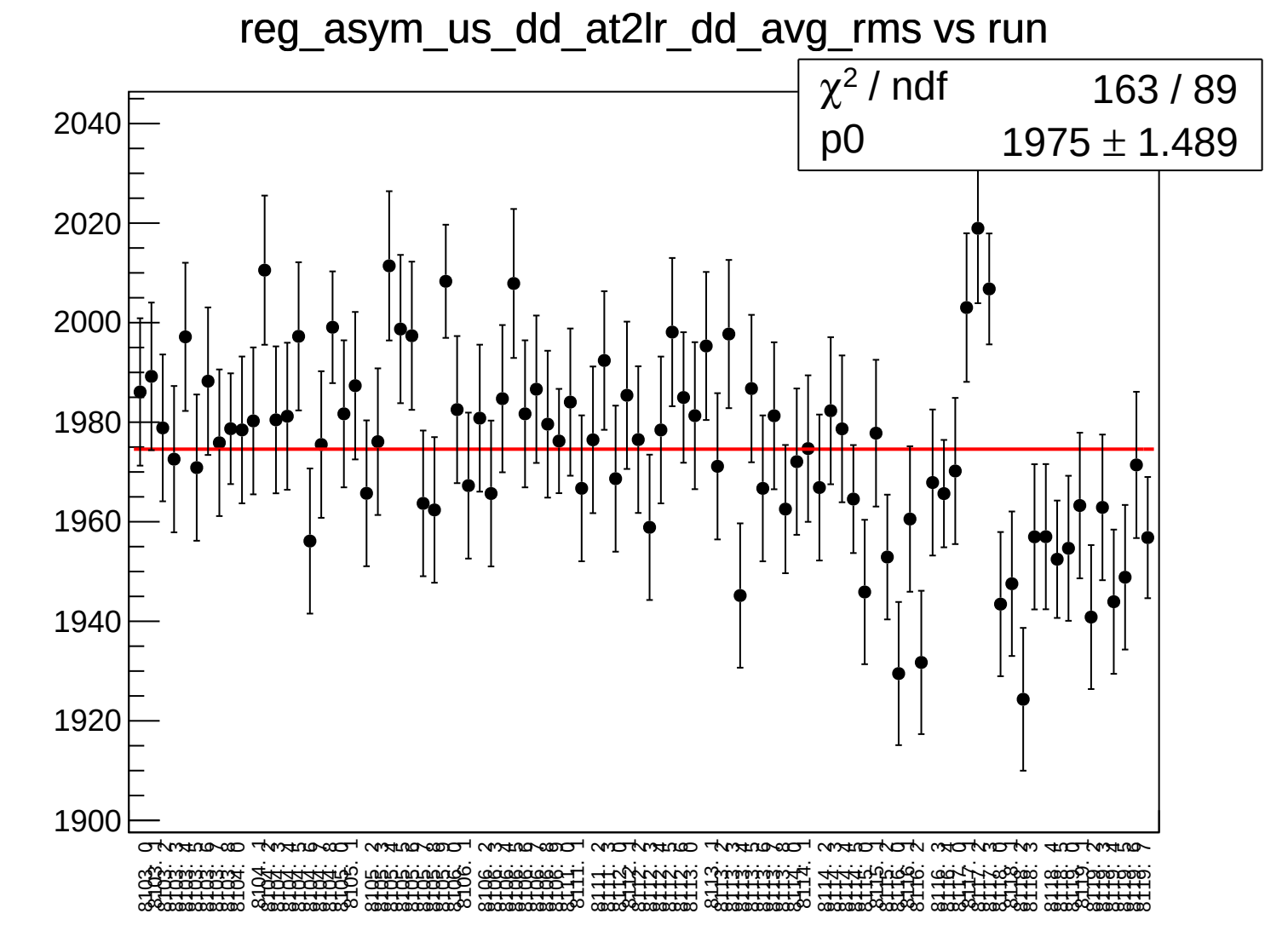

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.523e+05 / 89
p0 50.06 ± 0.04079
180
160
140
120
100
80
60
40
20

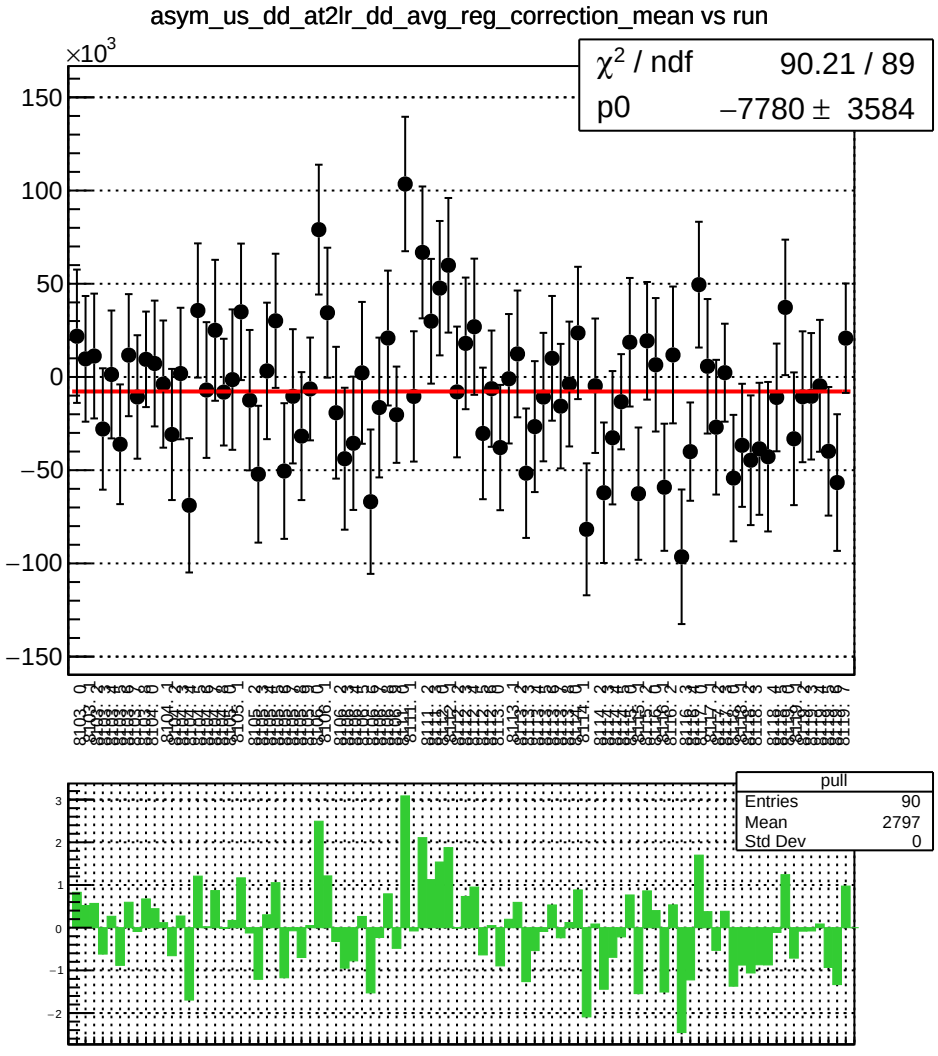

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.33 / 89
p0 −1.847e−14 ± 7.172e−14
pull
Entries 90
Mean −8.463
Std Dev 0
pull1D
Entries 90
Mean −0.03318
Std Dev 0.9617

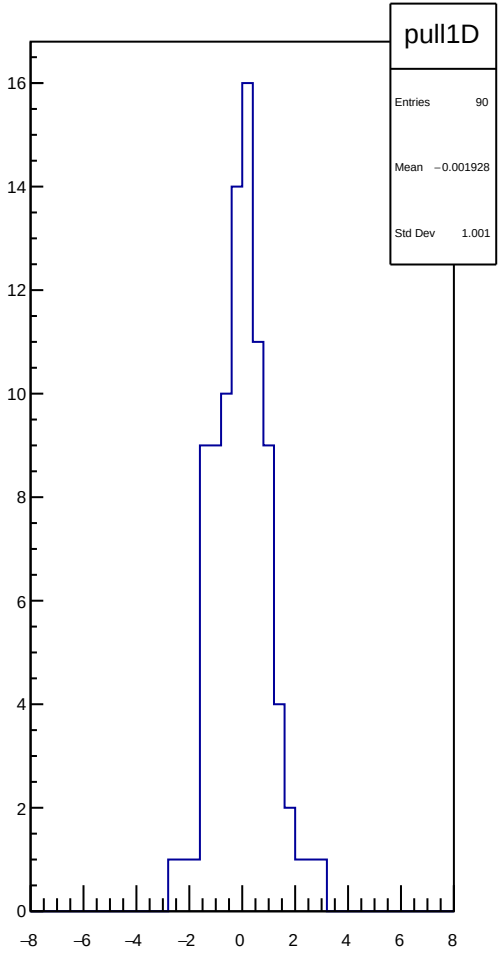

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.247e+05 / 89
p0 4.901e−11 ± 5.071e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

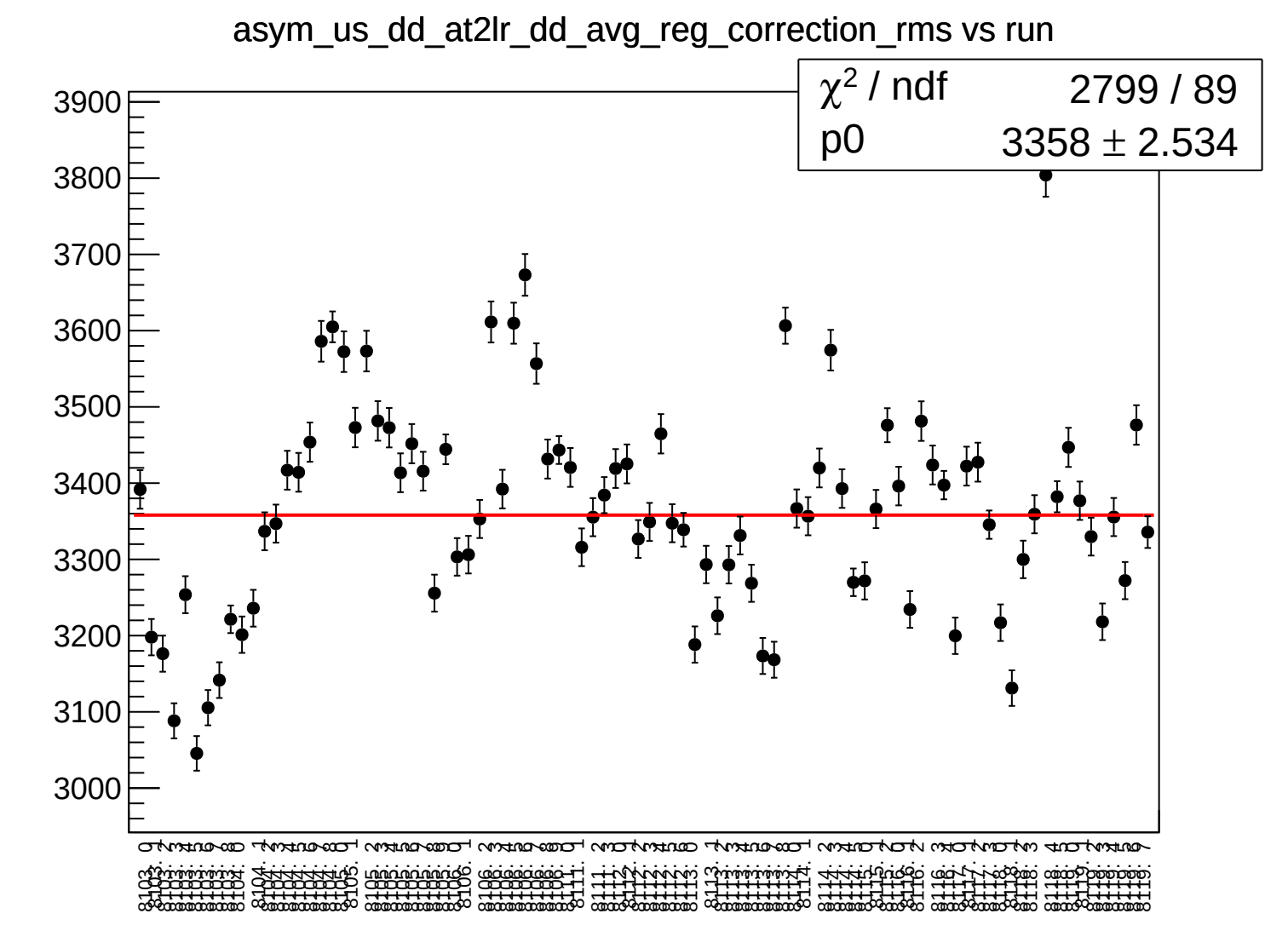

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.29 / 89
p0 −1537 ± 2106
pull
Entries 90
Mean −1117
Std Dev 0

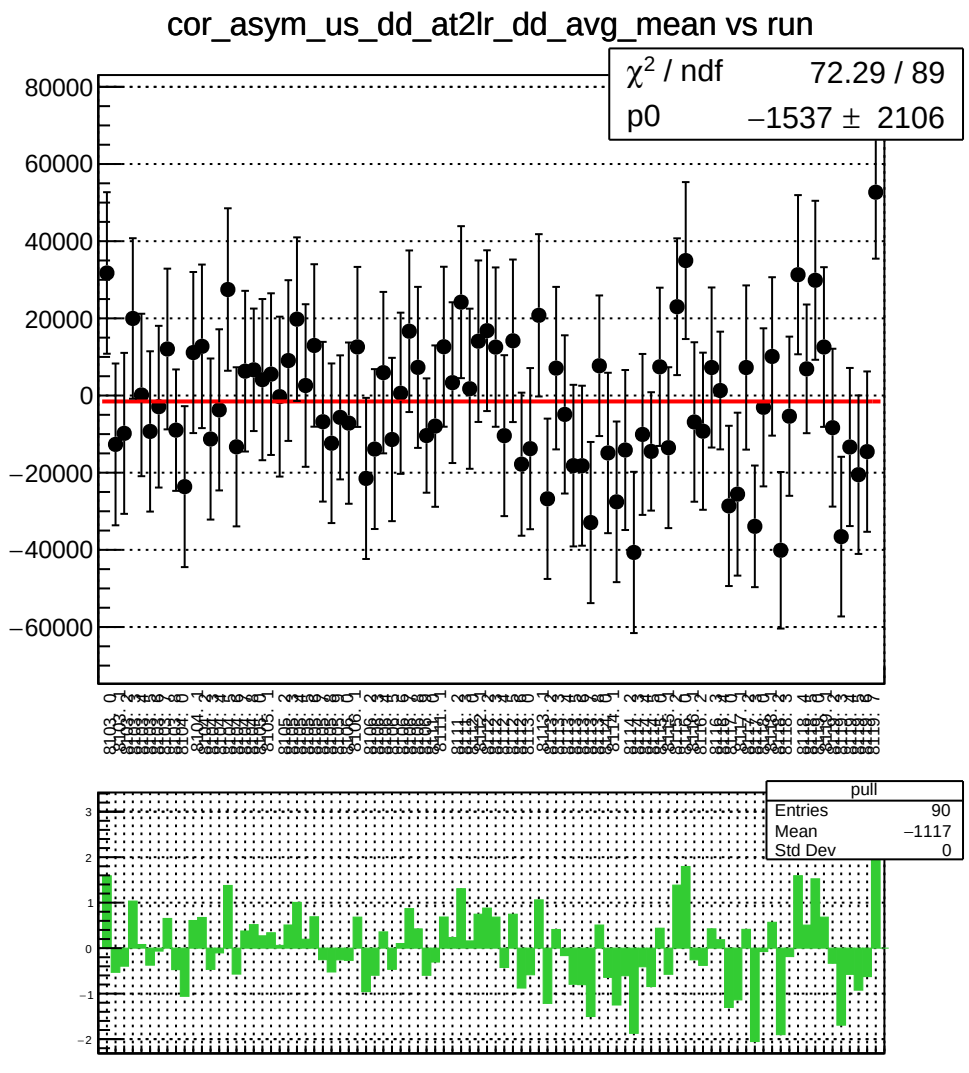

pull1D
Entries 90
Mean 0.002458
Std Dev 0.8962

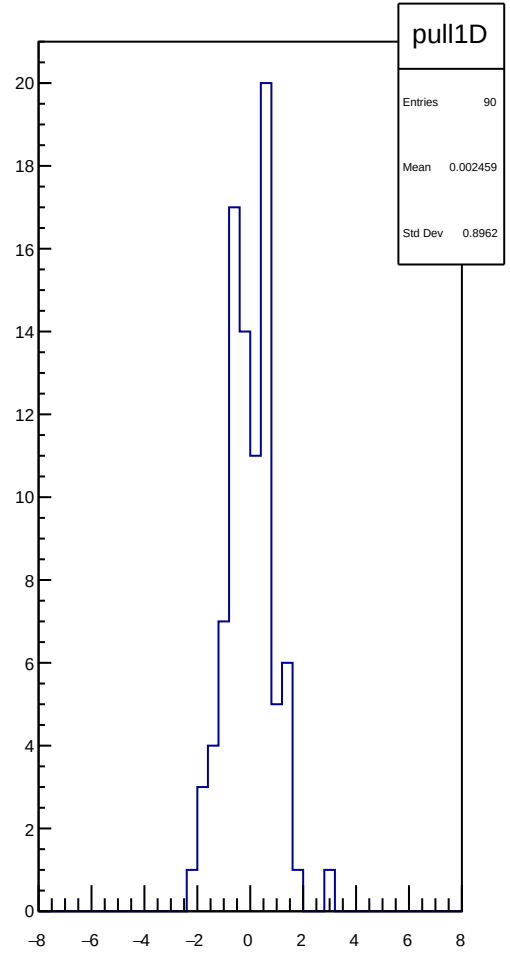

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 163 / 89
p0 1975 ± 1.489
2040
2020
2000
1980
1960
1940
1920
1900

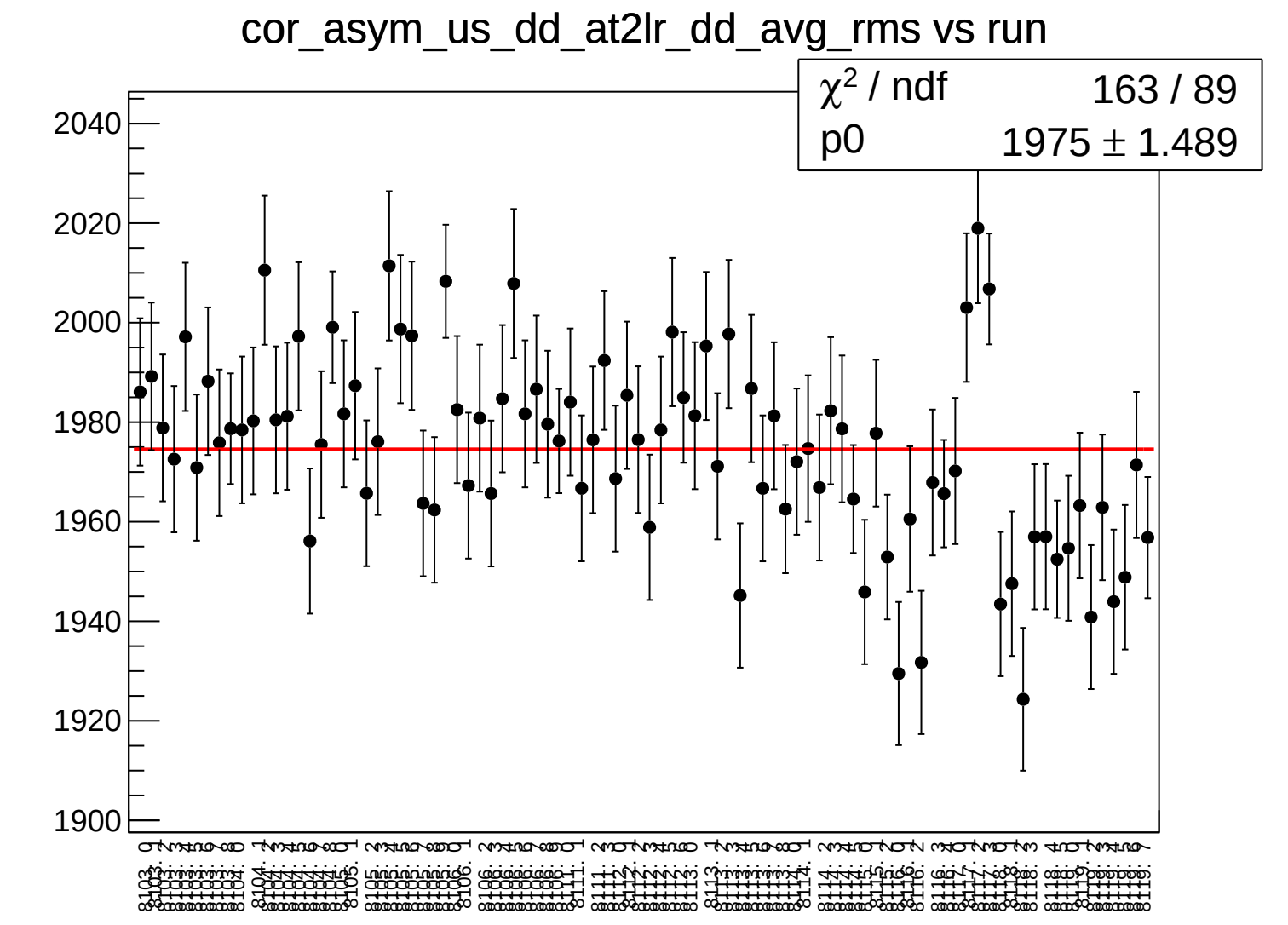

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.21 / 89
p0 −7780 ± 3584
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 2797
Std Dev 0
3
2
1
0
−1
−2

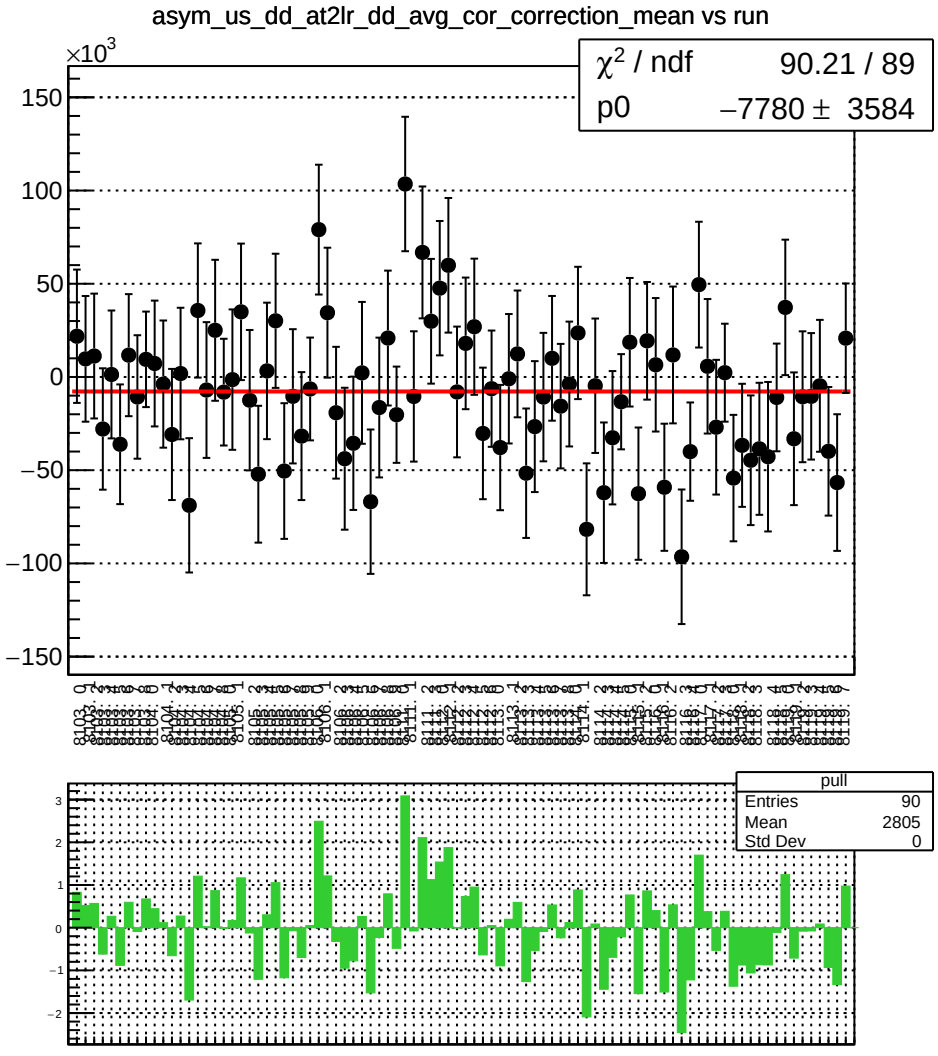

pull1D
Entries 90
Mean −0.001928
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

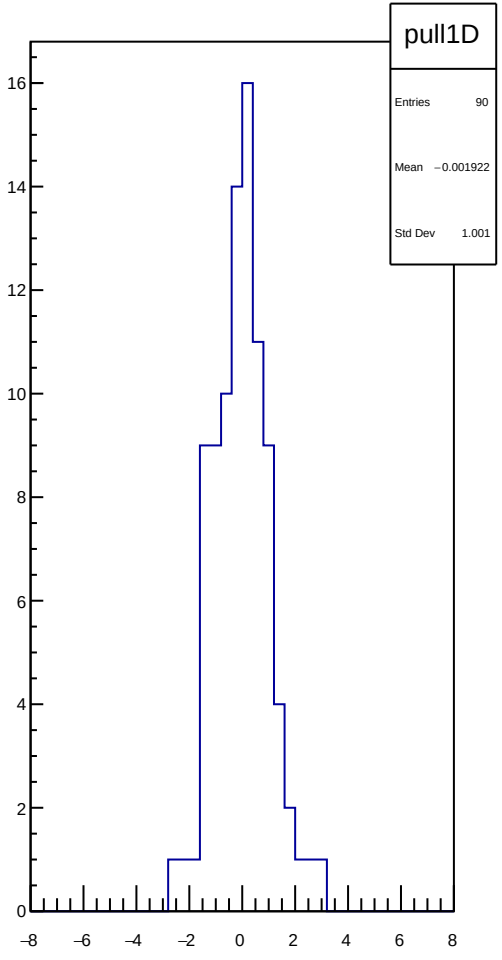

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2799 / 89
p0 3358 ± 2.534
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

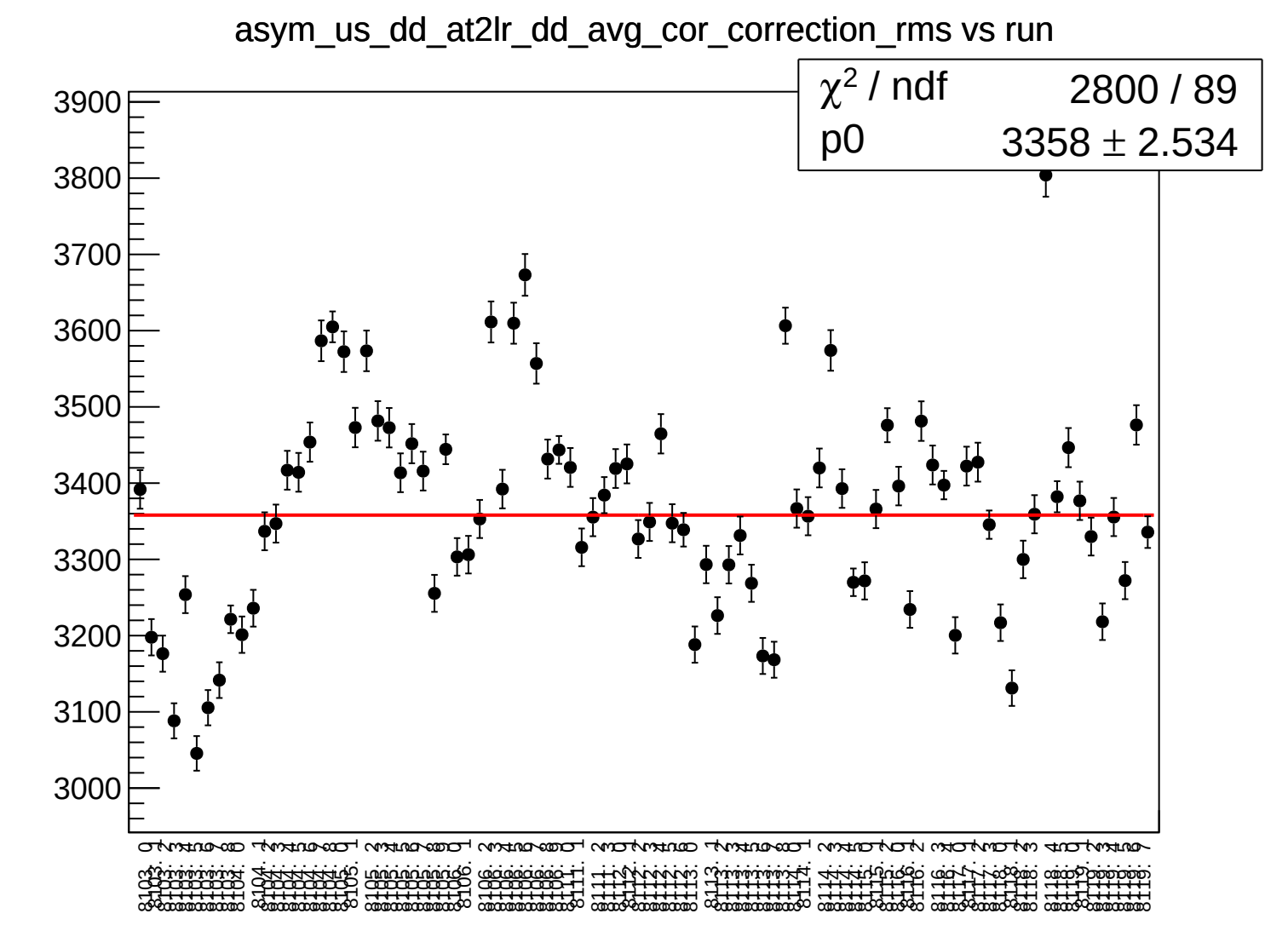

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.29 / 89
p0 −1537 ± 2106
pull
Entries 90
Mean −1117
Std Dev 0

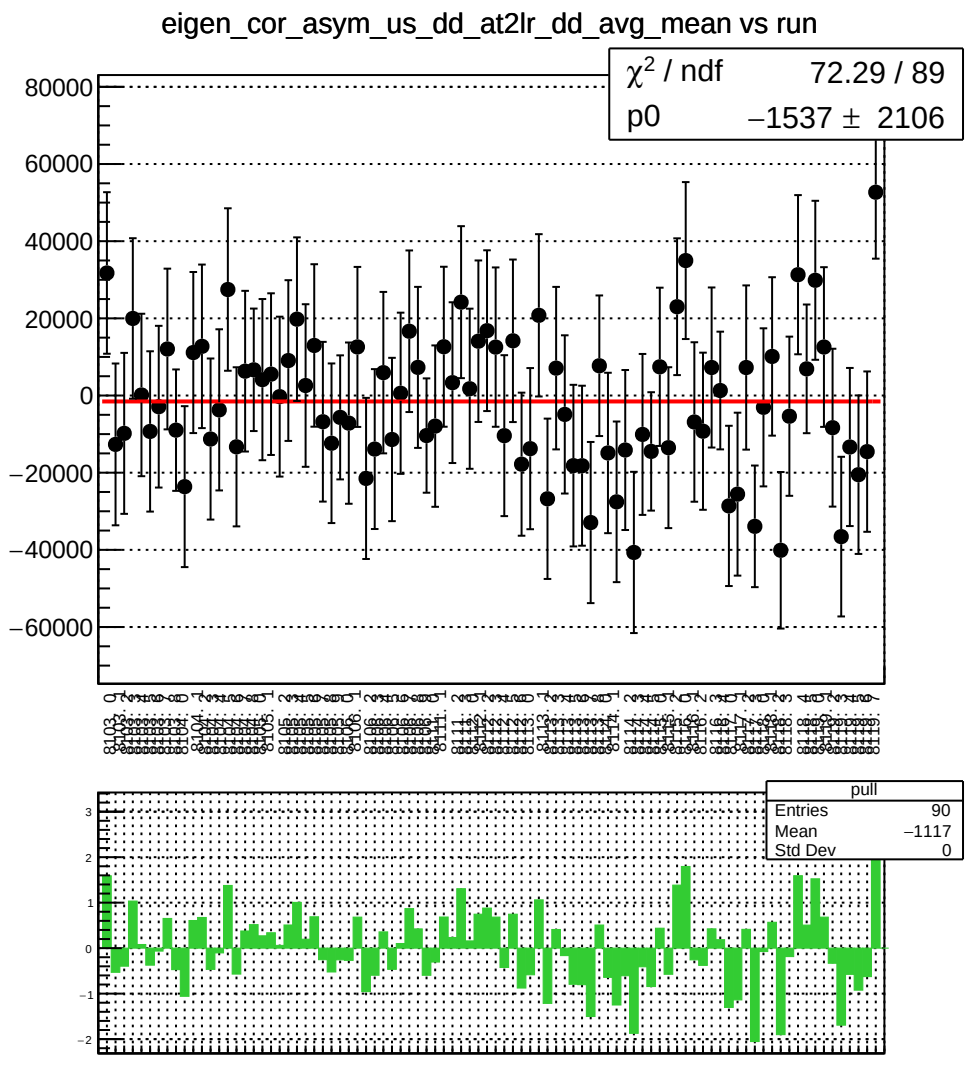

pull1D
Entries 90
Mean 0.002459
Std Dev 0.8962

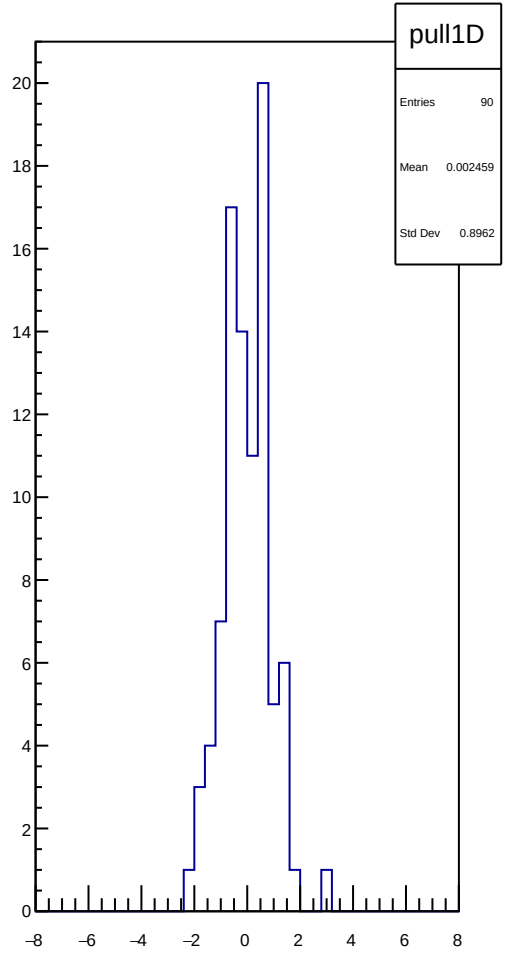

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 163 / 89
p0 1975 ± 1.489
2040
2020
2000
1980
1960
1940
1920
1900

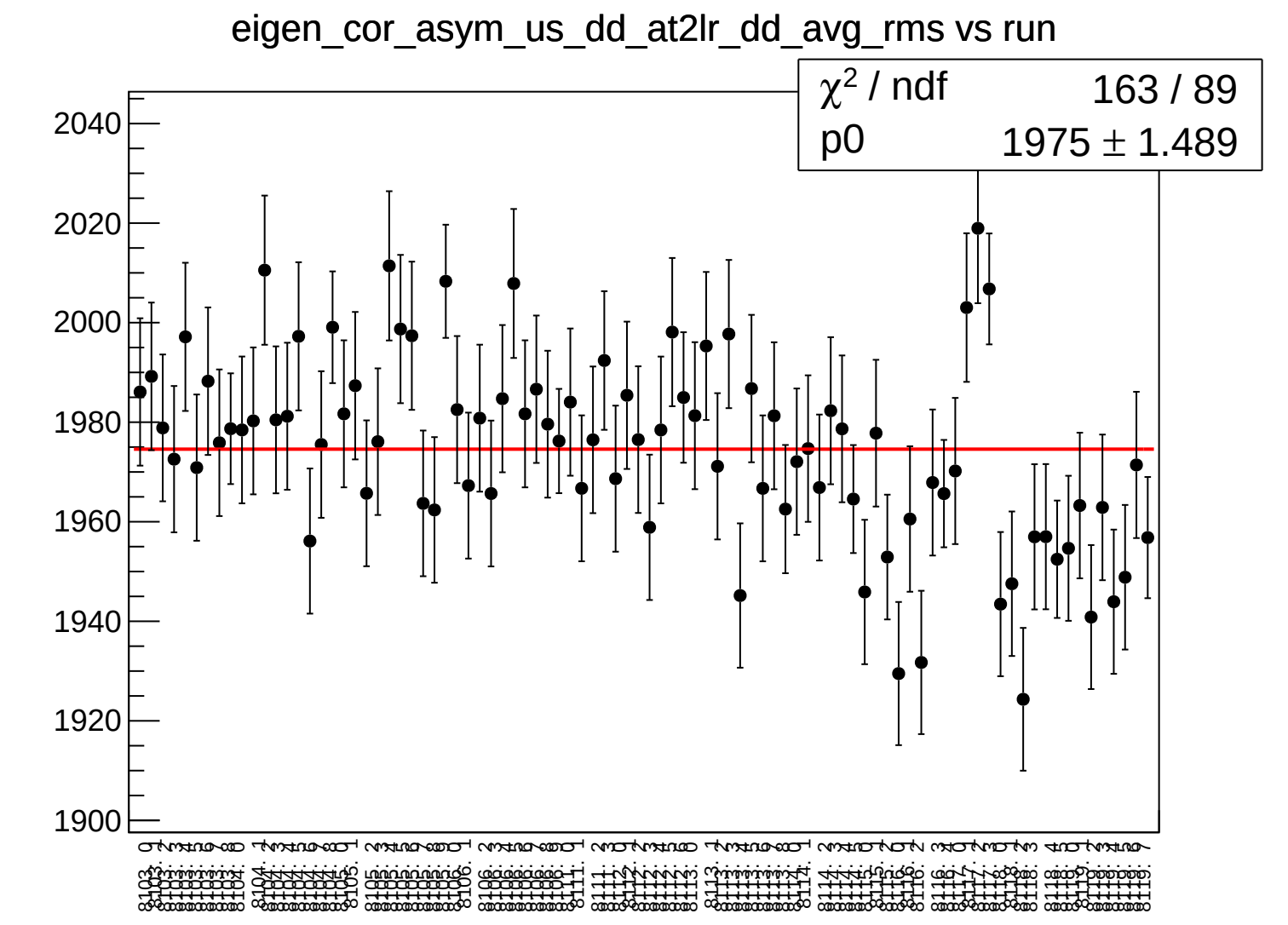

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.21 / 89
p0 −7780 ± 3584
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 2805
Std Dev 0
3
2
1
0
−1
−2

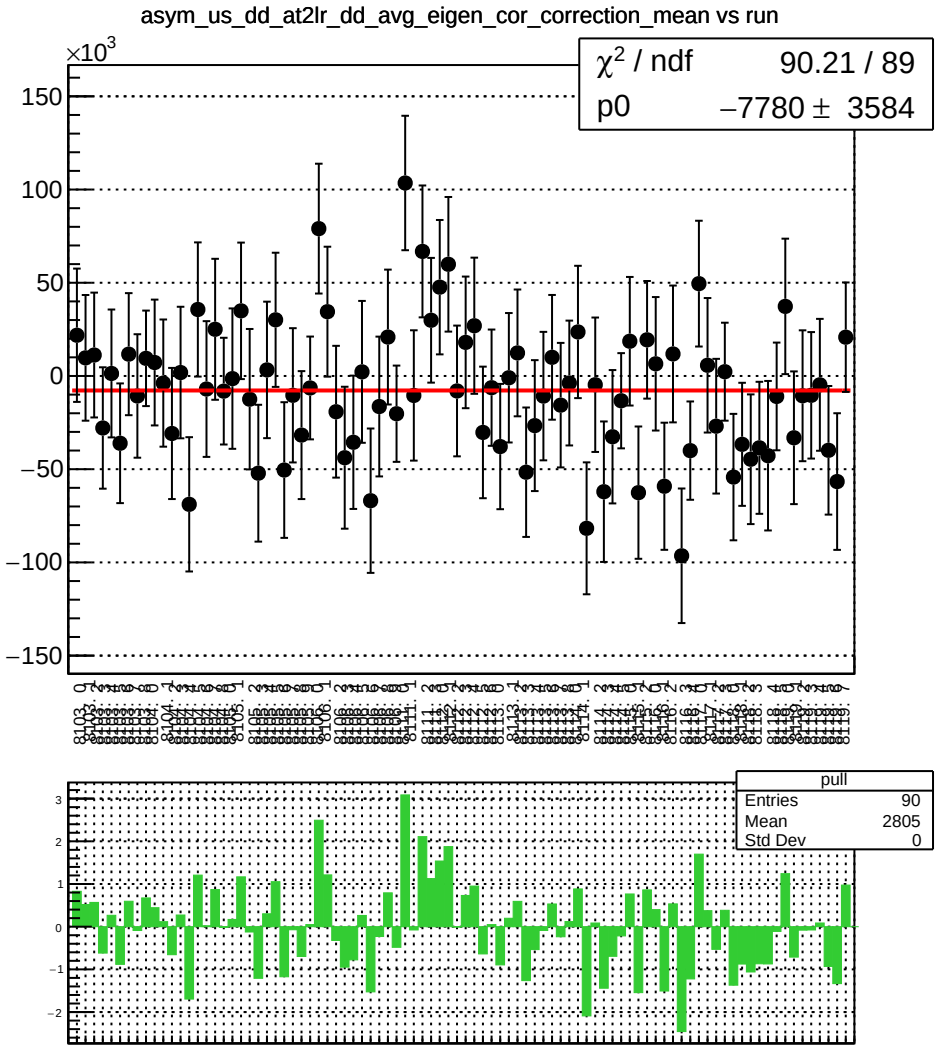

pull1D
Entries 90
Mean −0.001922
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

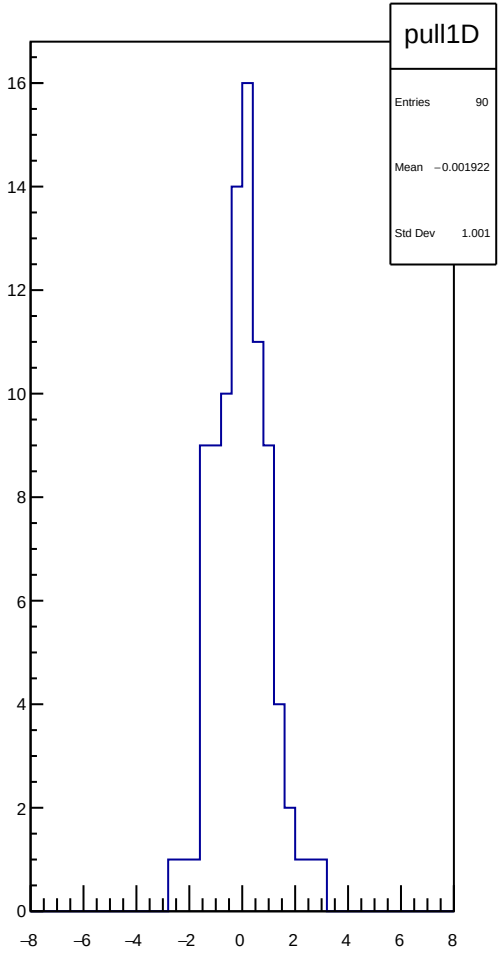

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2800 / 89
p0 3358 ± 2.534
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

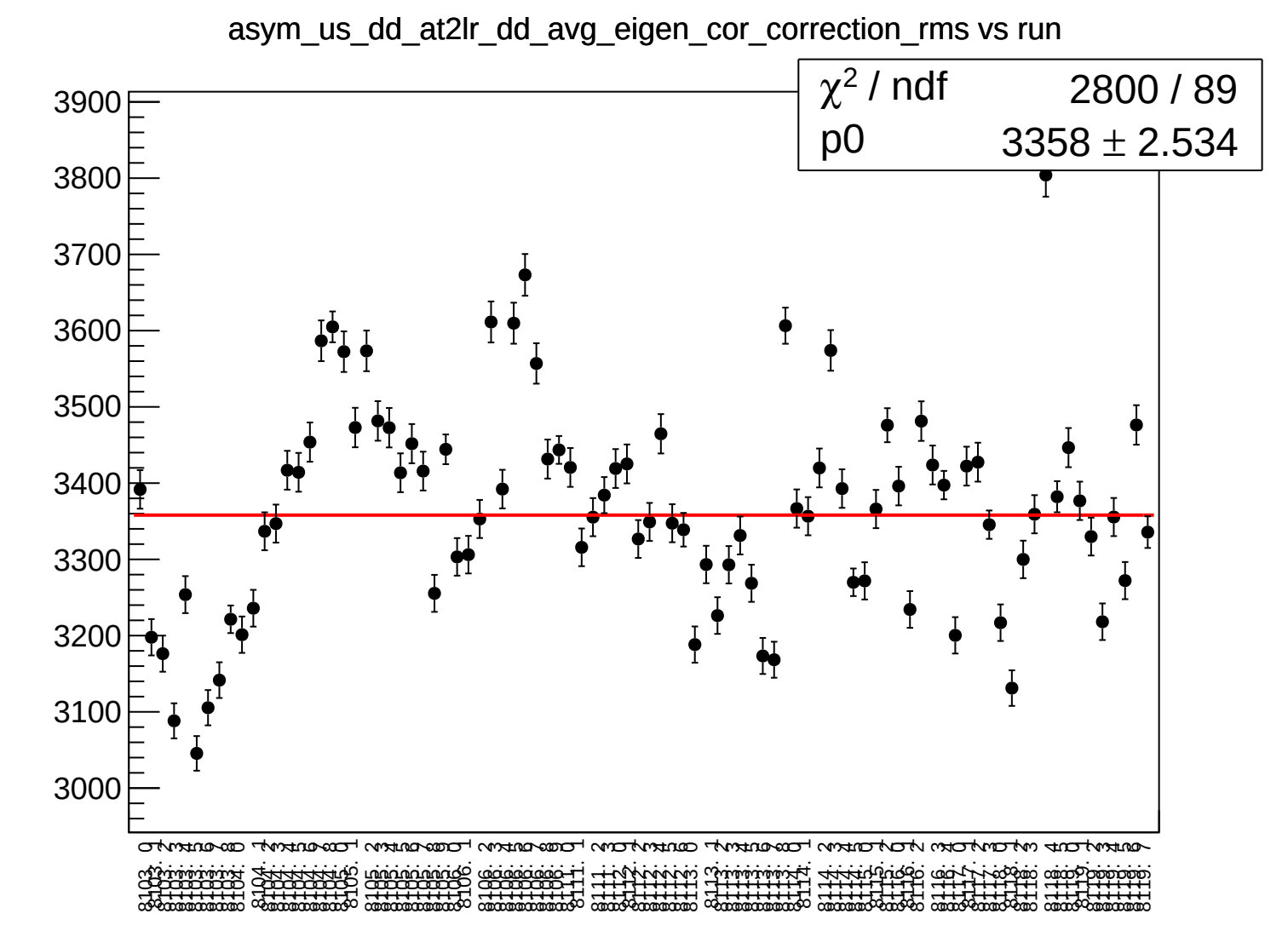

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.29 / 89
p0 −1537 ± 2106
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1117
Std Dev 0
3
2
1
0
−1
−2

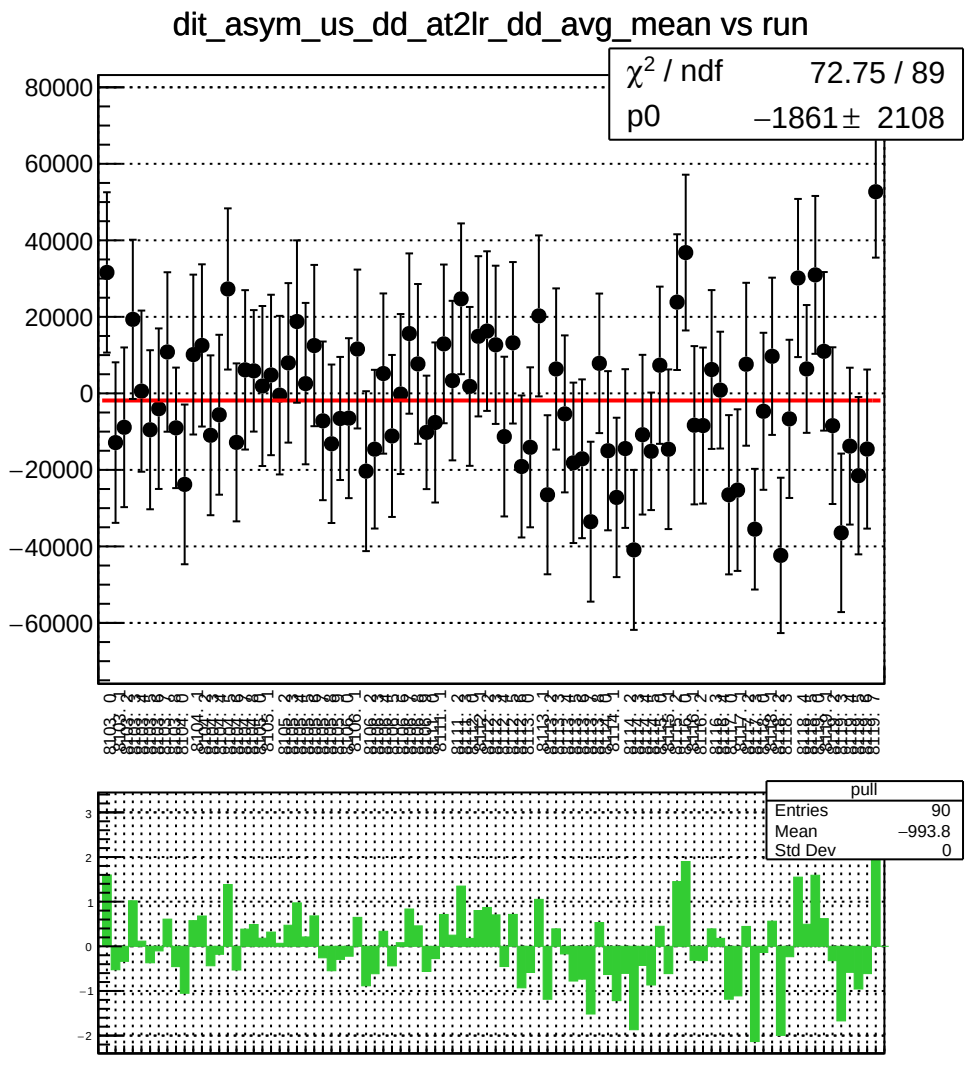

pull1D
Entries 90
Mean 0.002459
Std Dev 0.8962
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

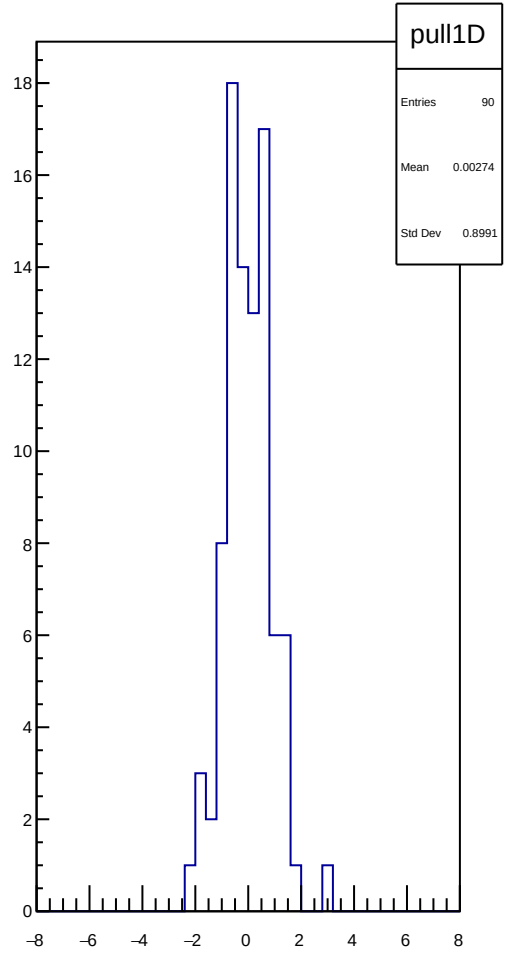

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 163 / 89
p0 1975 ± 1.489
2040
2020
2000
1980
1960
1940
1920
1900

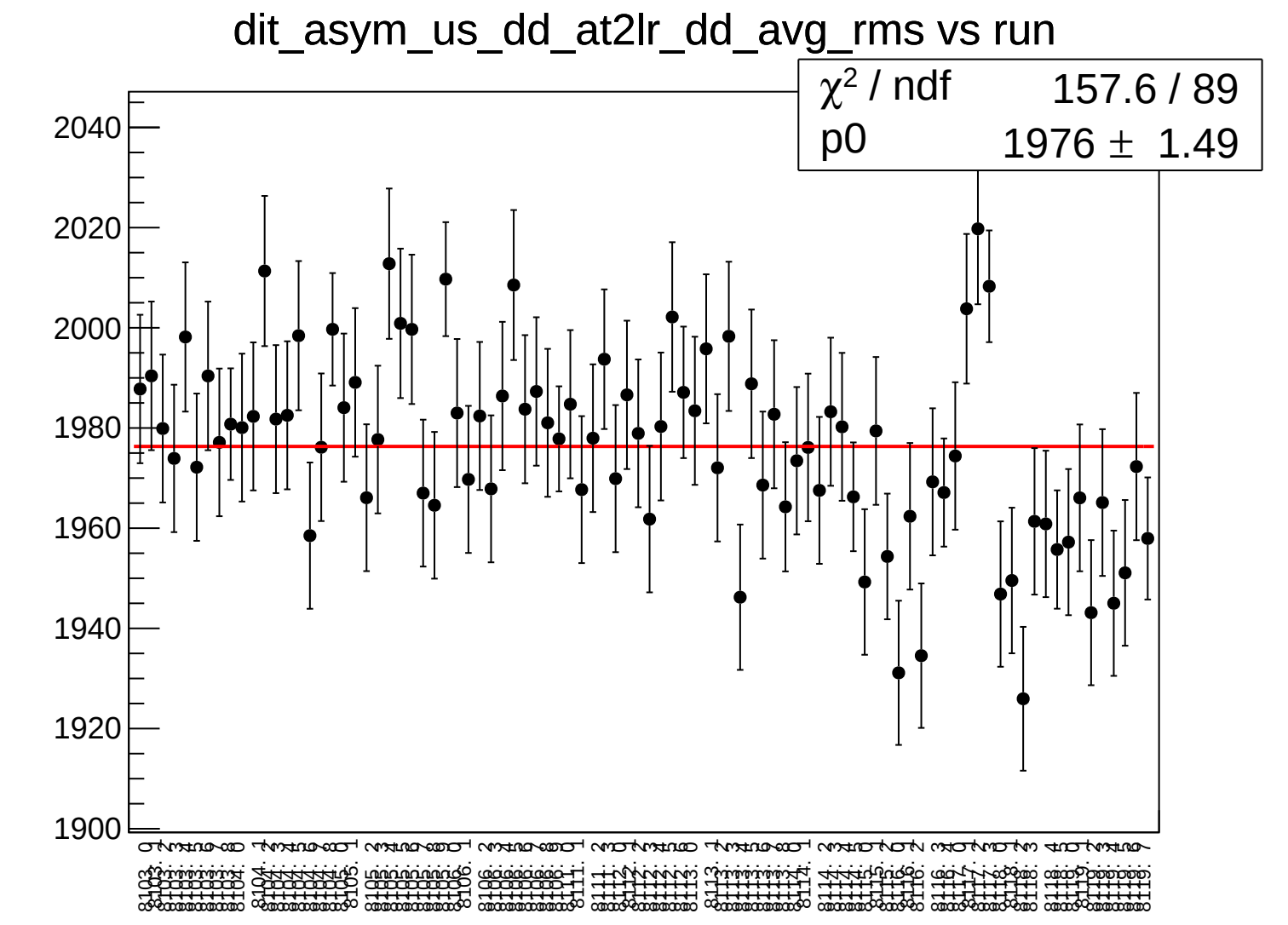

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.21 / 89
p0 −7780 ± 3584
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 2805
Std Dev 0
3
2
1
0
−1
−2

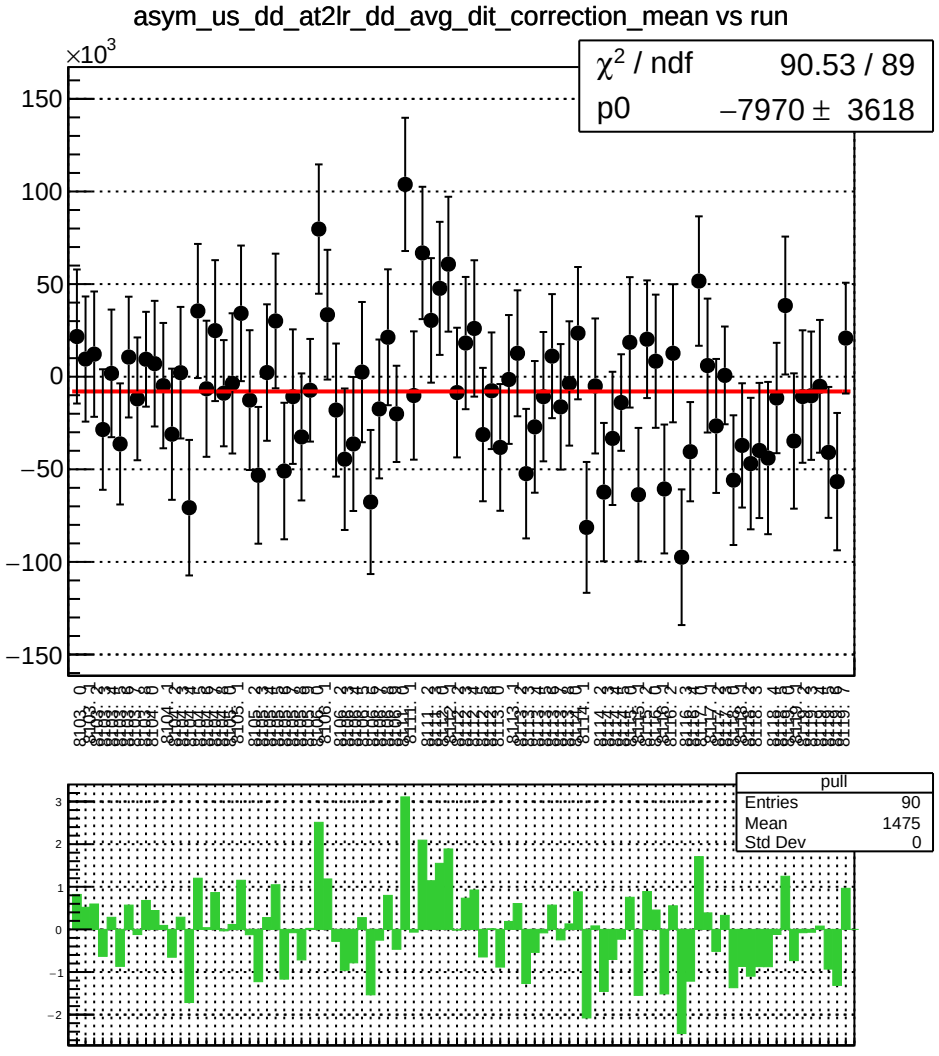

pull1D
Entries 90
Mean −0.001922
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

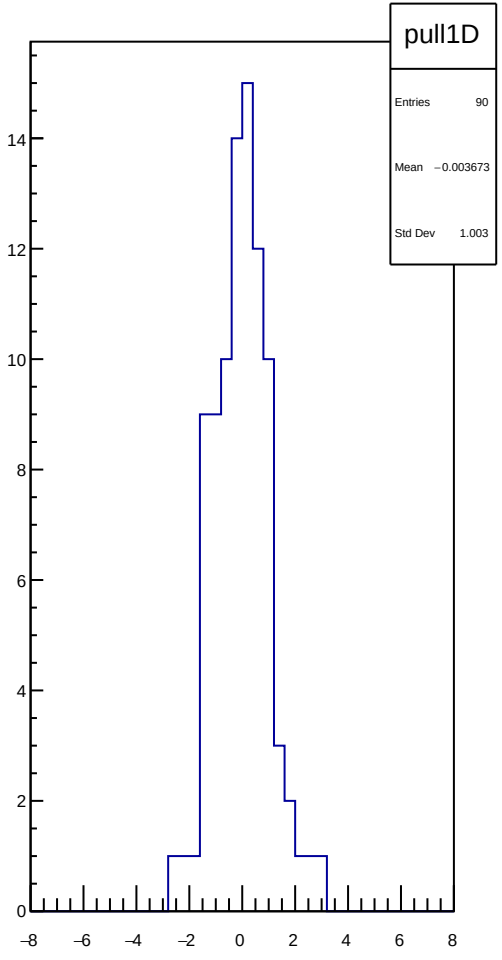

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2800 / 89
p0 3358 ± 2.534
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

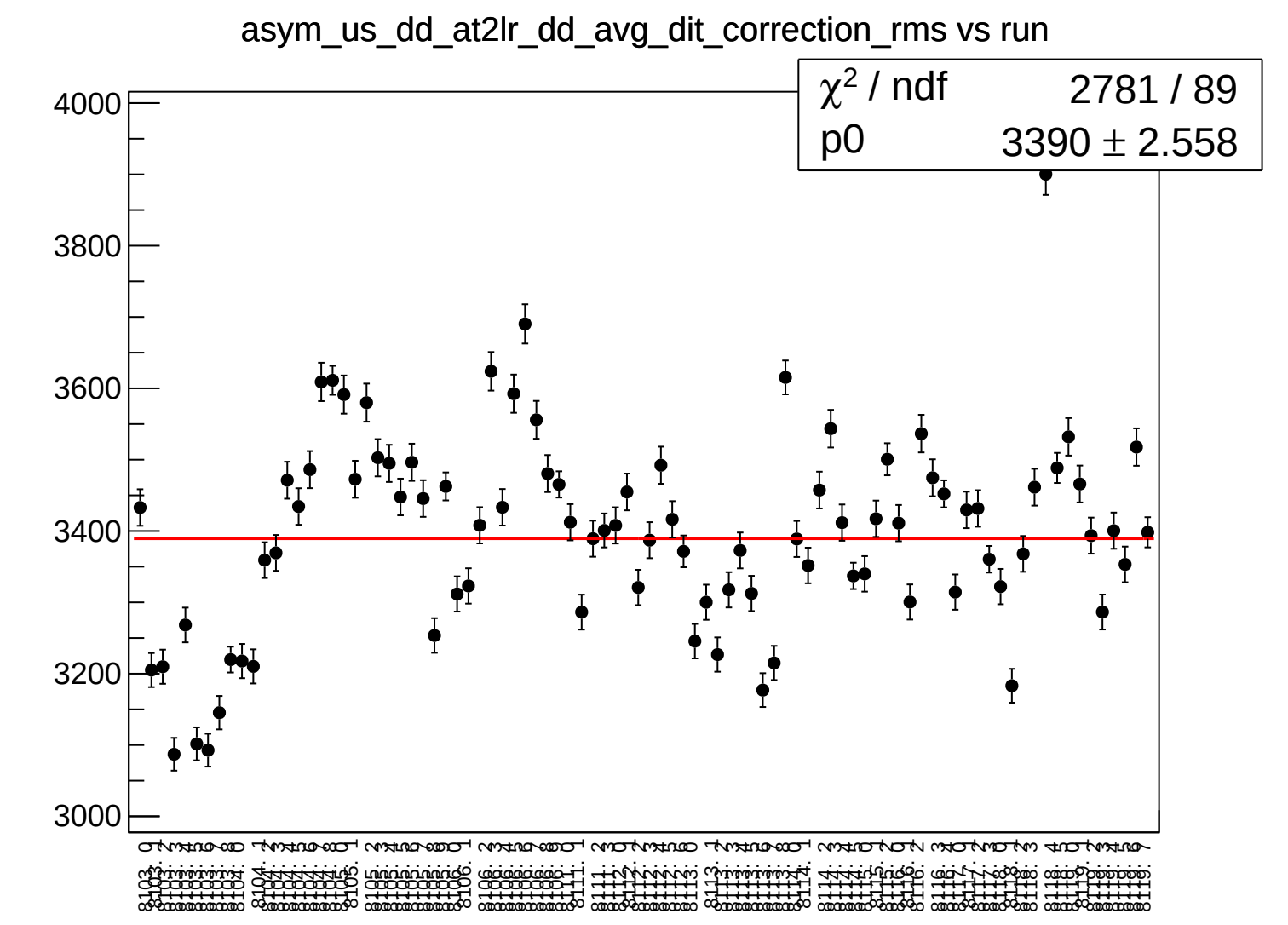

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.75 / 89
p0 −1861 ± 2108
pull
Entries 90
Mean −993.8
Std Dev 0

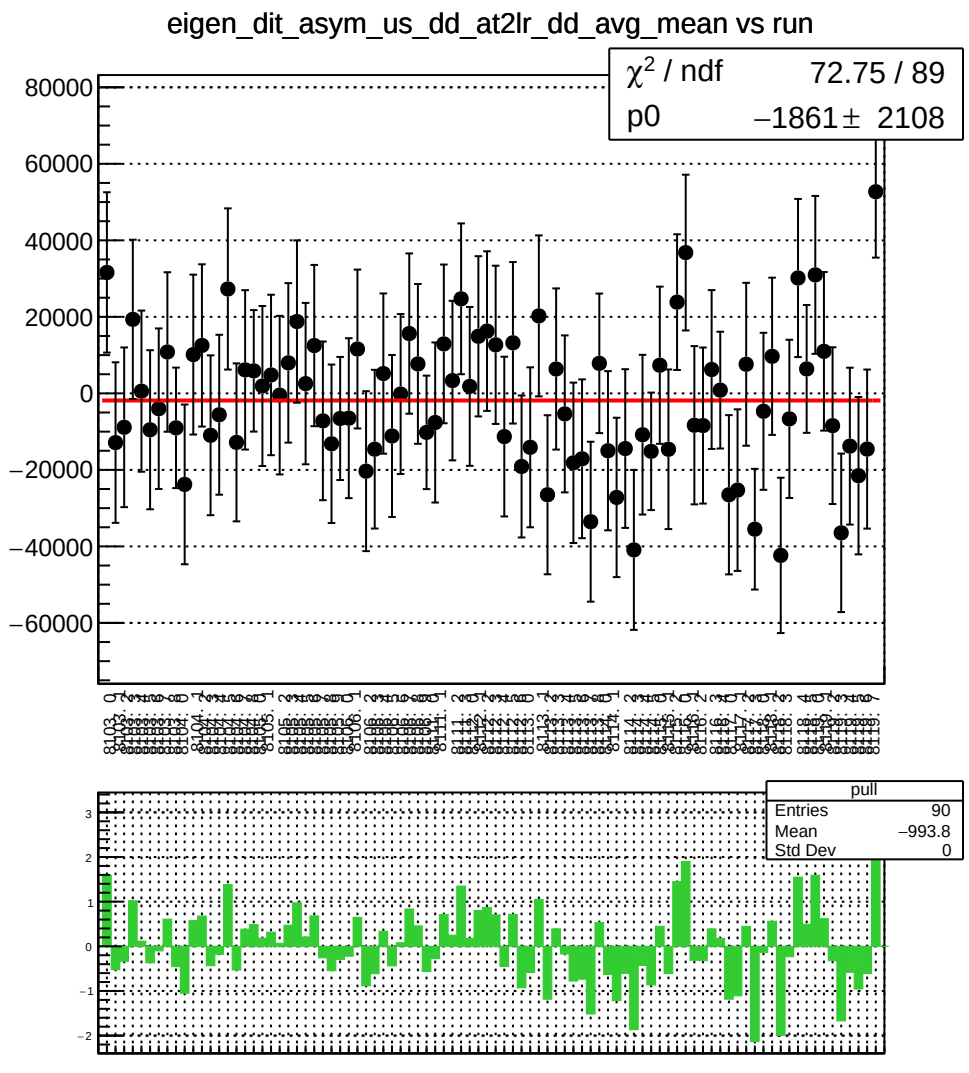

pull1D
Entries 90
Mean 0.00274
Std Dev 0.8991

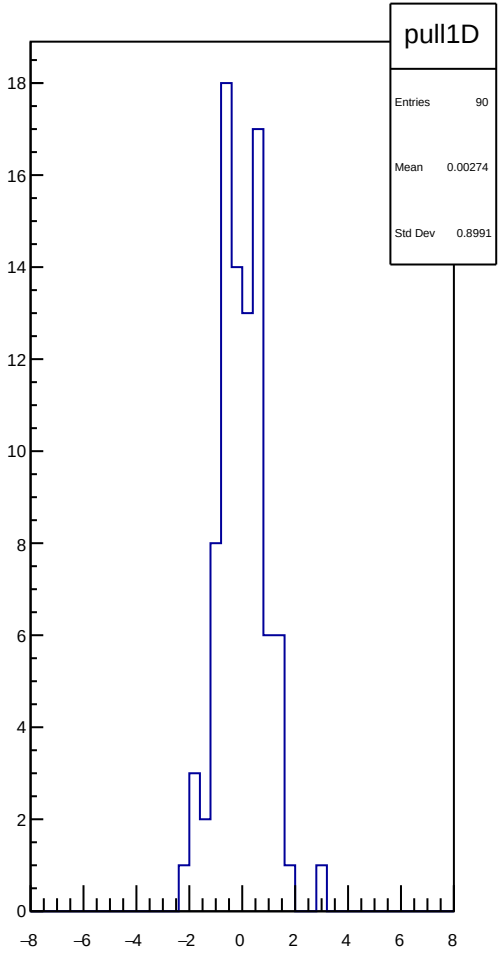

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 157.6 / 89
p0 1976 ± 1.49
2040
2020
2000
1980
1960
1940
1920
1900

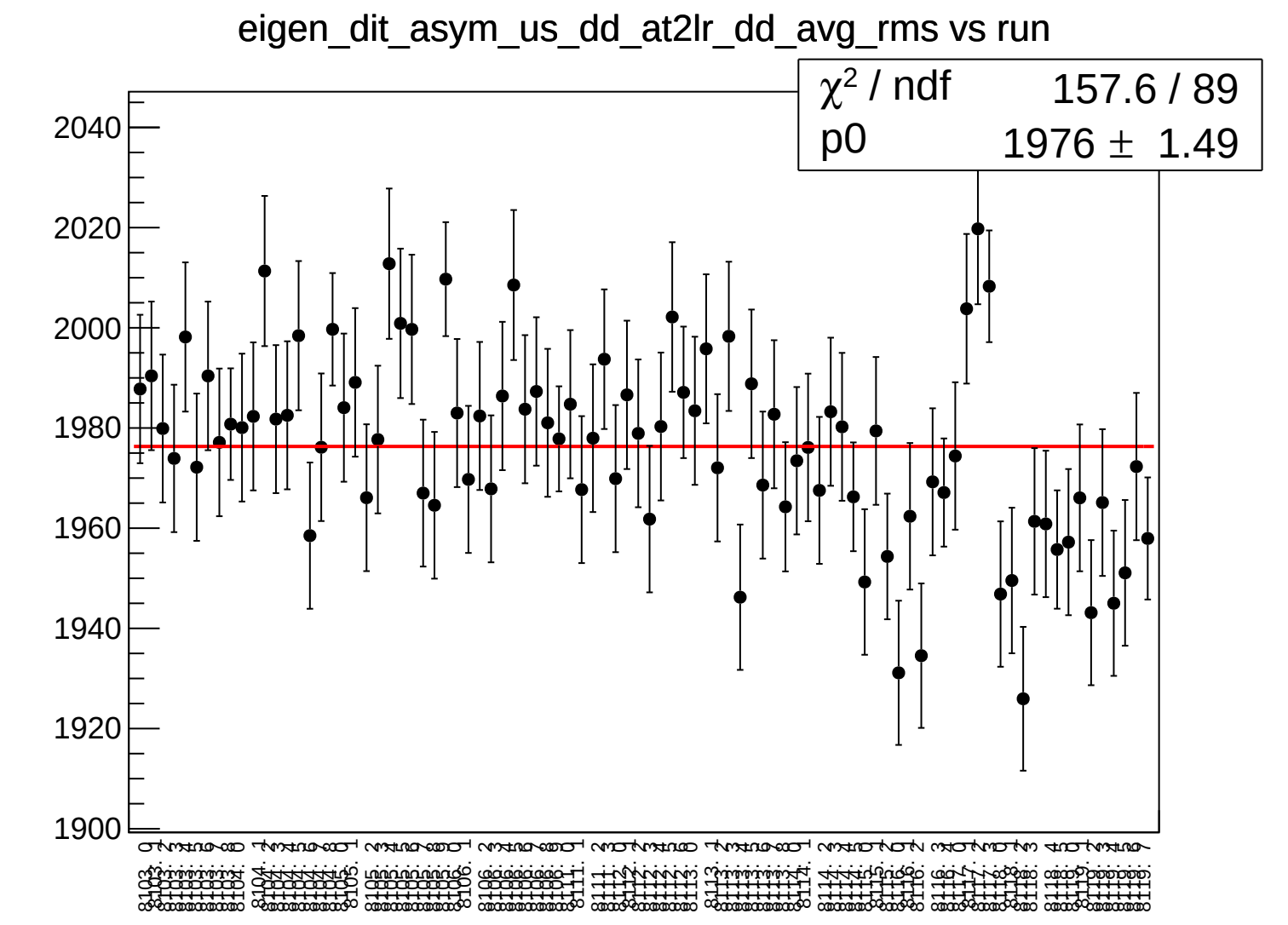

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.53 / 89
p0 −7970 ± 3618
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 1475
Std Dev 0
3
2
1
0
−1
−2

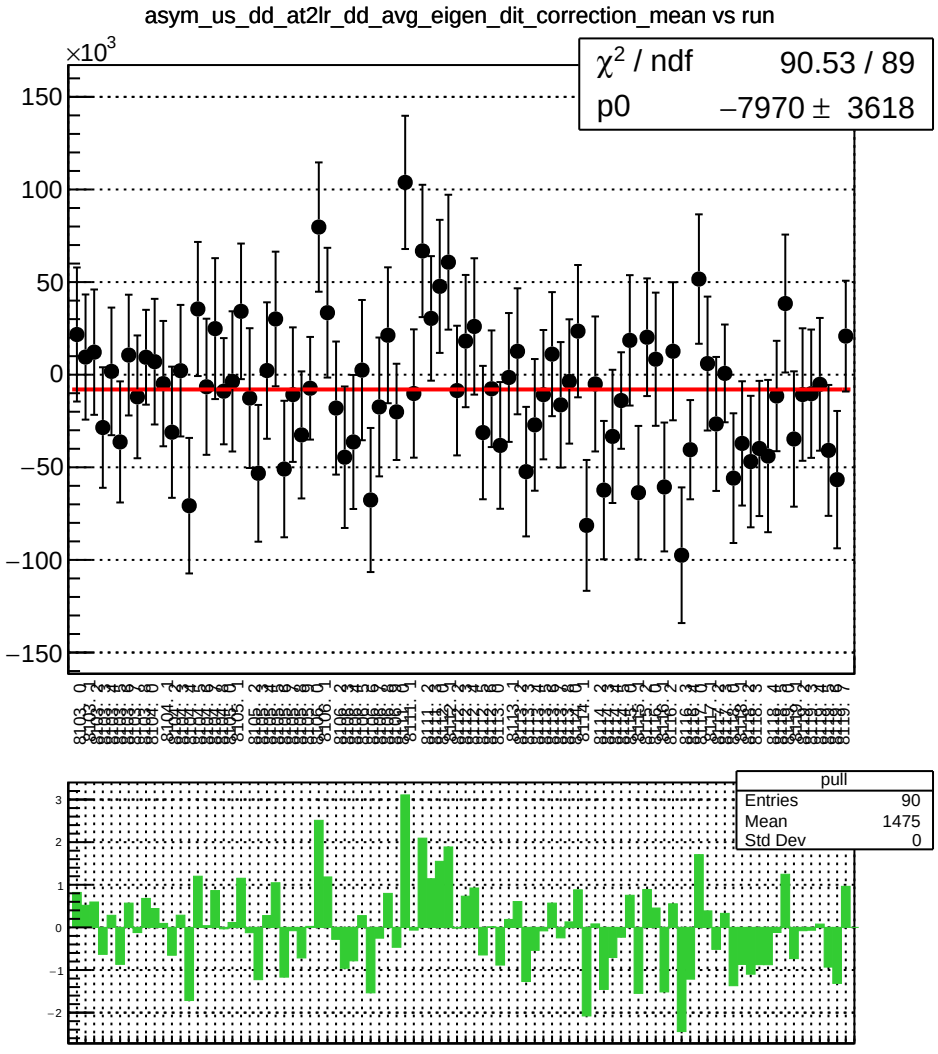

pull1D
Entries 90
Mean −0.003673
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

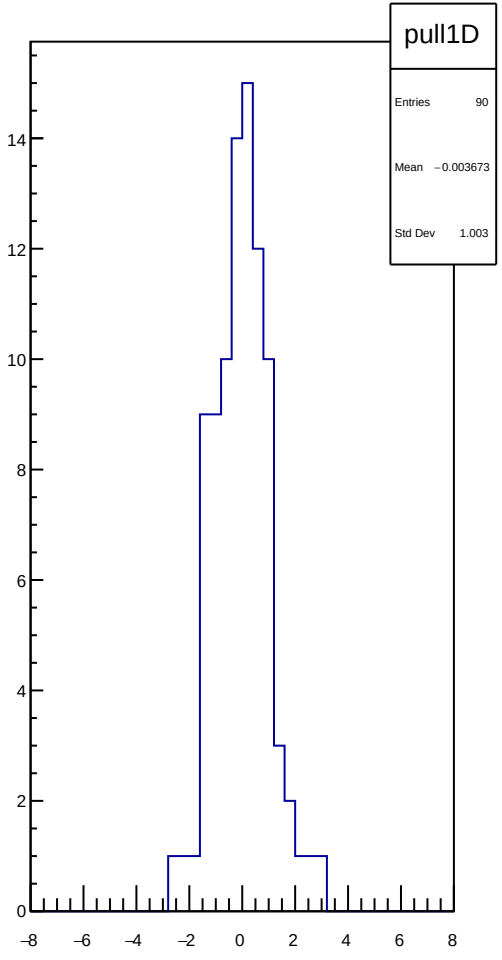

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2781 / 89
p0 3390 ± 2.558
4000
3800
3600
3400
3200
3000

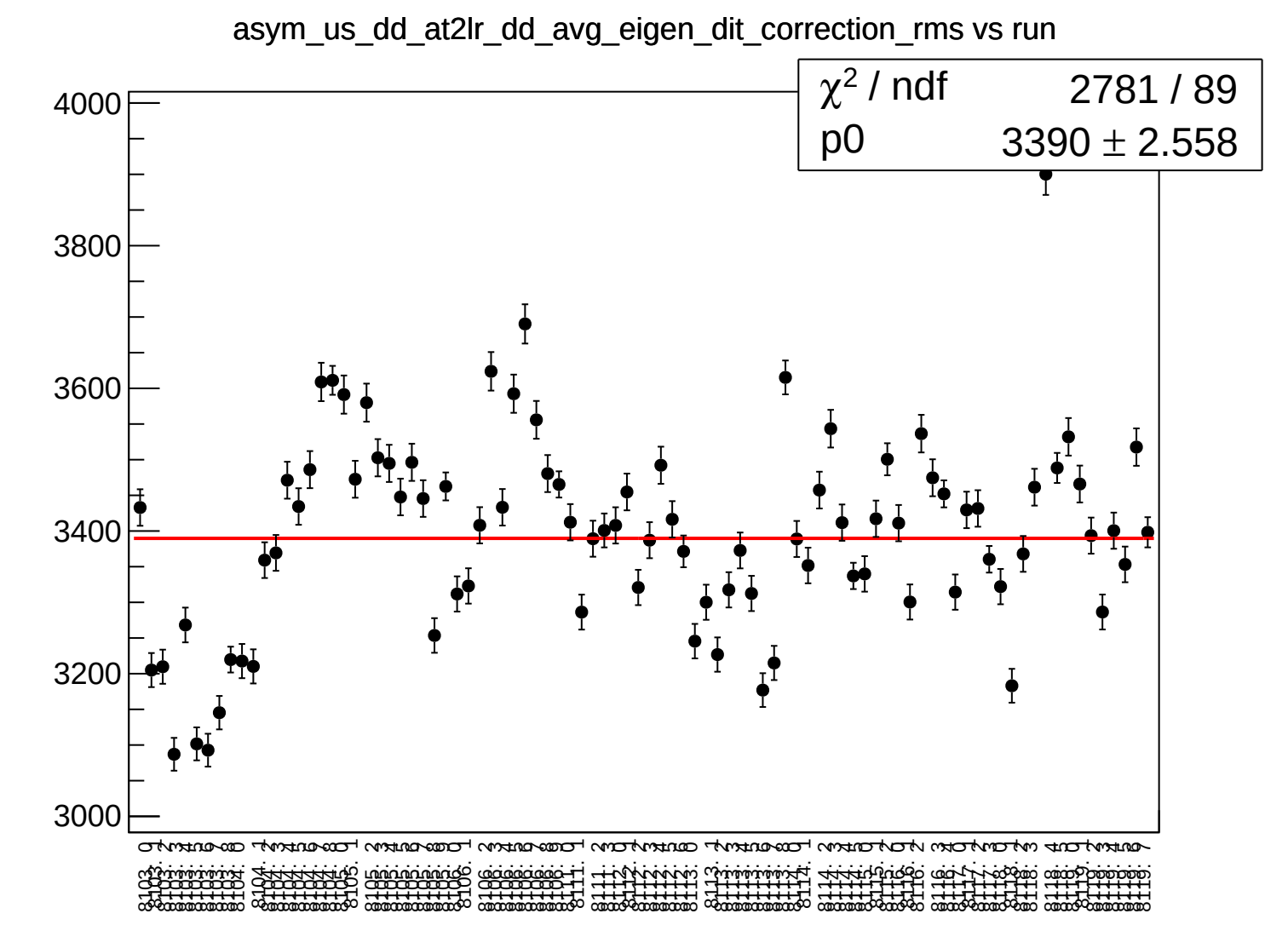

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 72.75 / 89
p0 −1861 ± 2108
pull
Entries 90
Mean −993.8
Std Dev 0

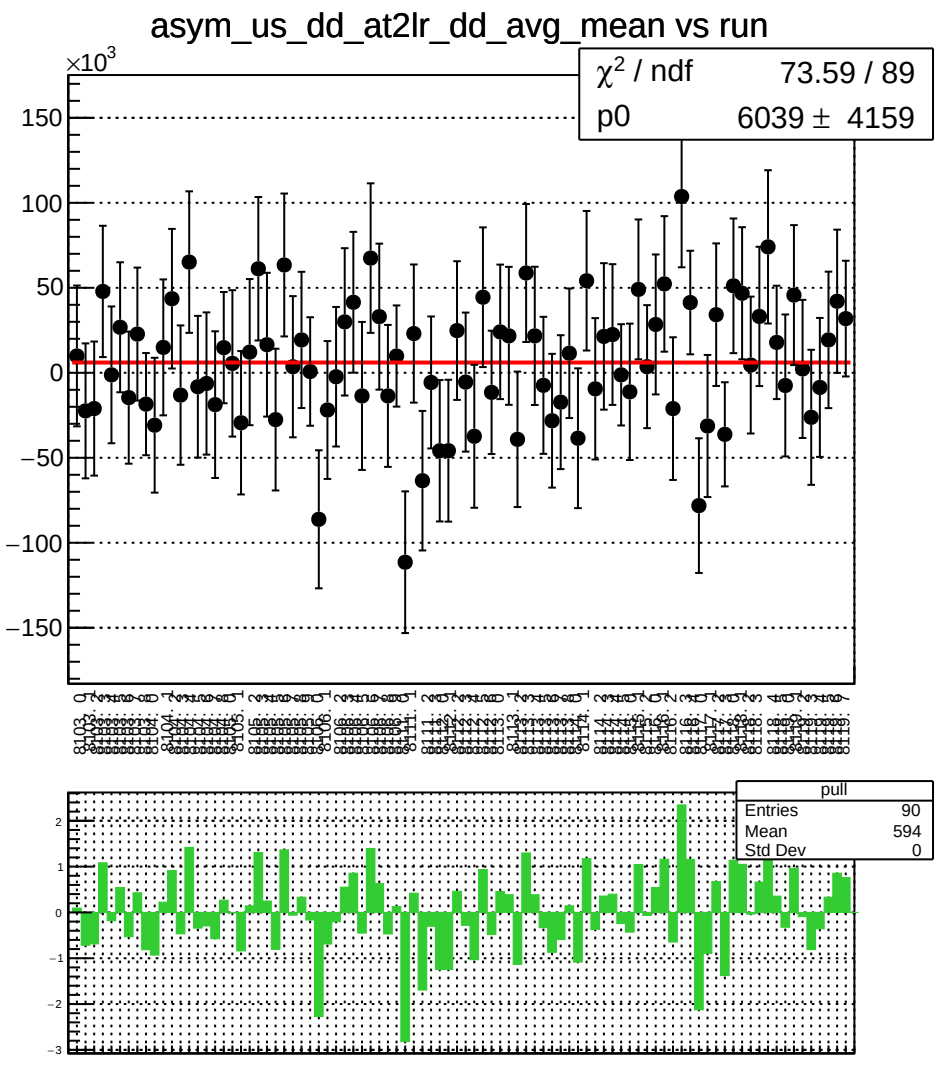

pull1D
Entries 90
Mean 0.00274
Std Dev 0.8991

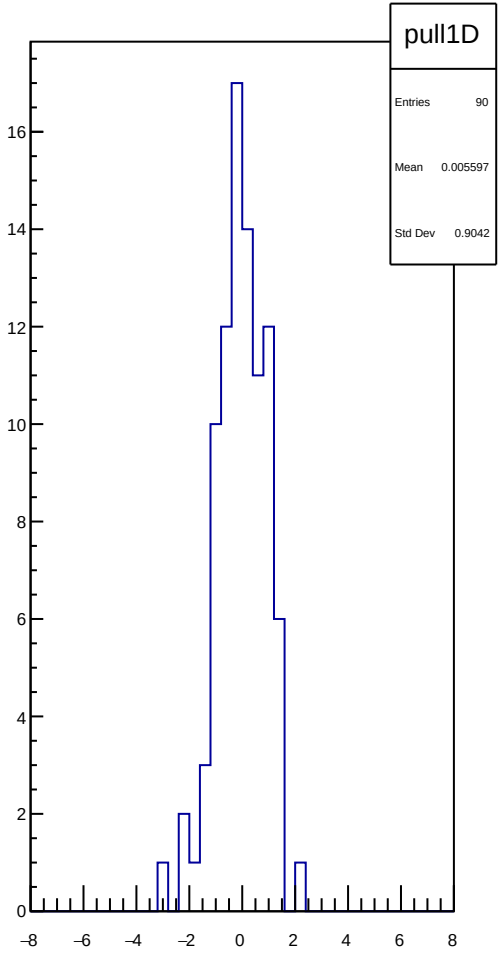

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 157.6 / 89
p0 1976 ± 1.49
2040
2020
2000
1980
1960
1940
1920
1900

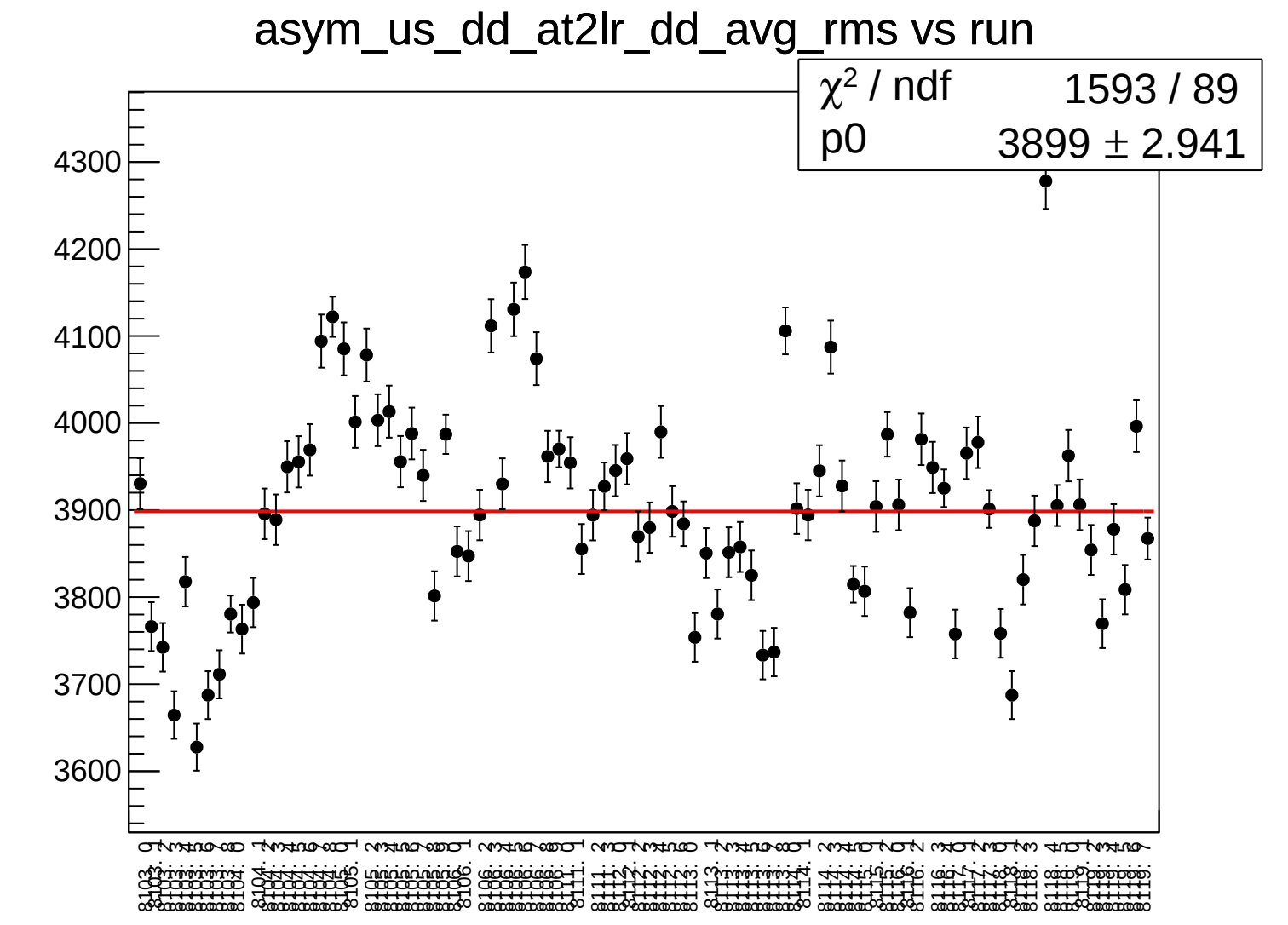

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.53 / 89
p0 −7970 ± 3618
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 1475
Std Dev 0
3
2
1
0
−1
−2

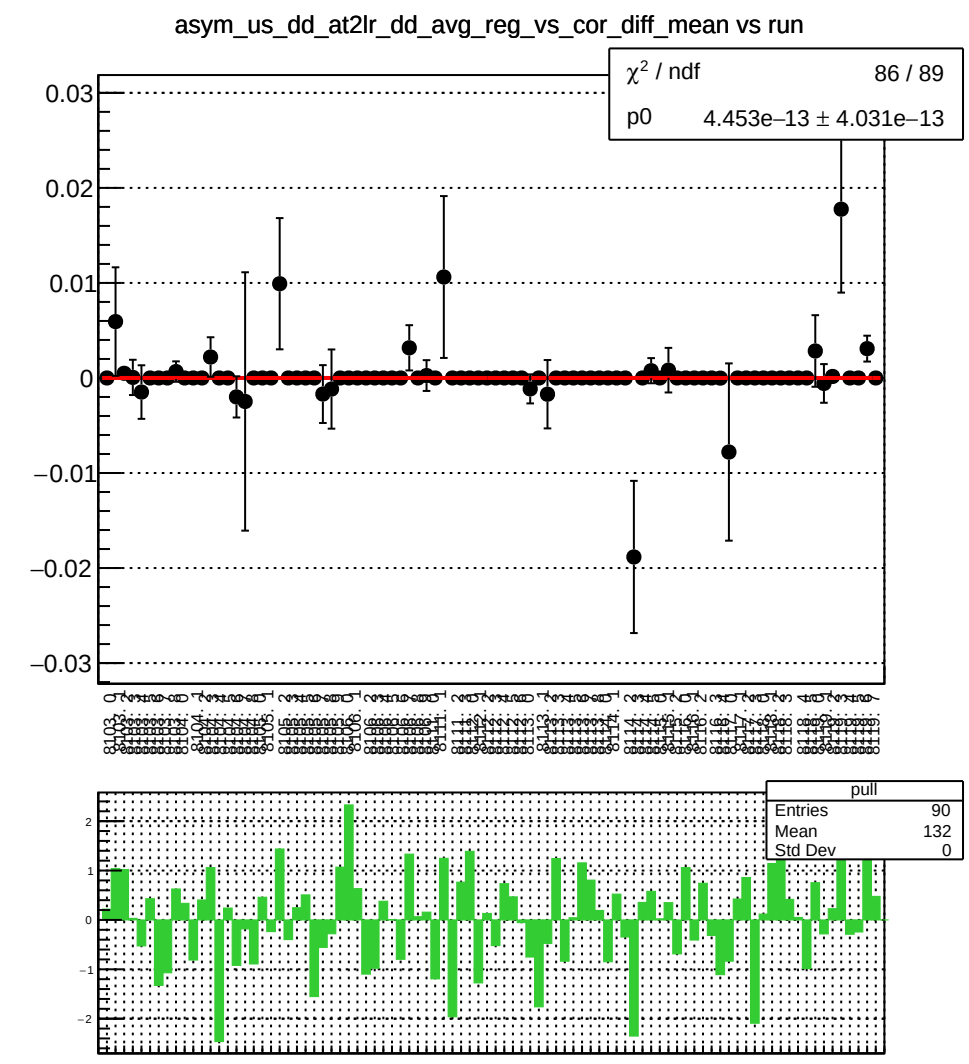

pull1D
Entries 90
Mean −0.003673
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

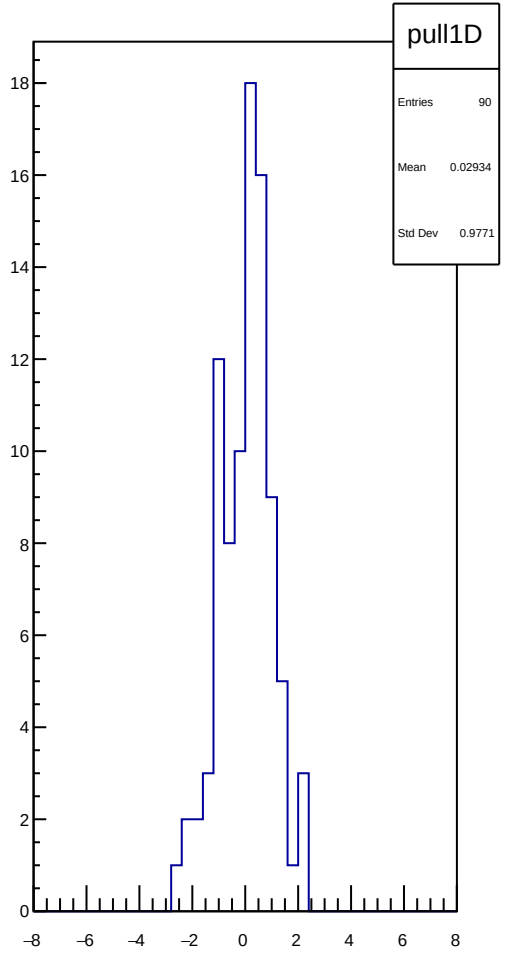

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2781 / 89
p0 3390 ± 2.558
4000
3800
3600
3400
3200
3000

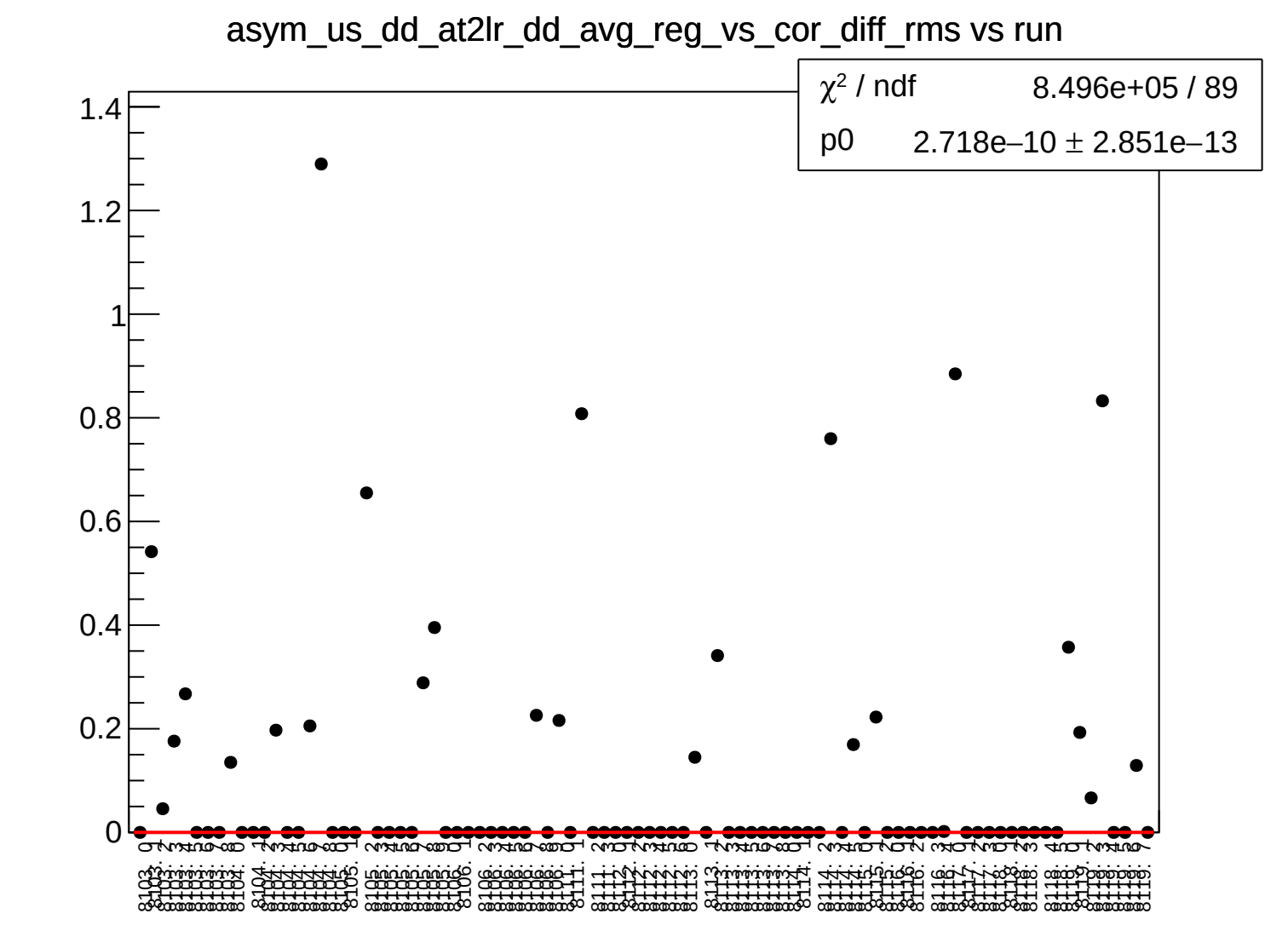

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 73.59 / 89
p0 6039 ± 4159
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 594
Std Dev 0
2
1
0
−1
−2
−3

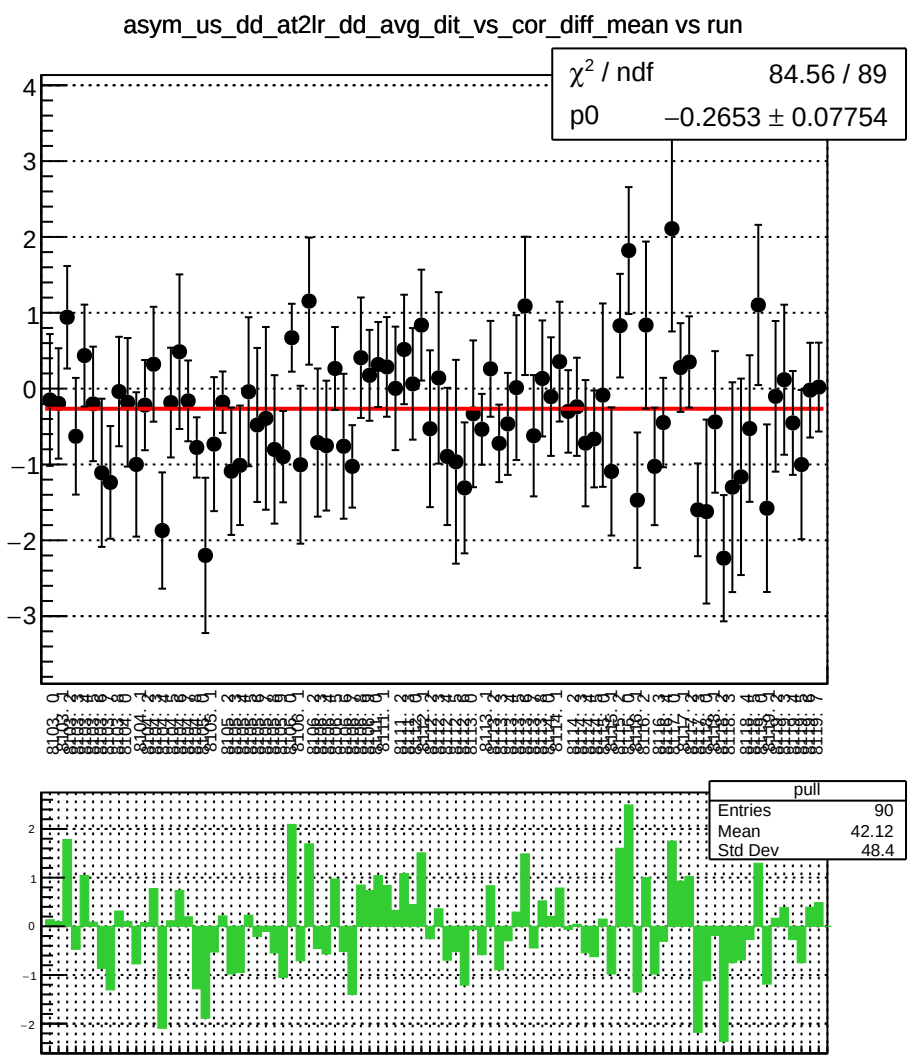

pull1D
Entries 90
Mean 0.005597
Std Dev 0.9042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

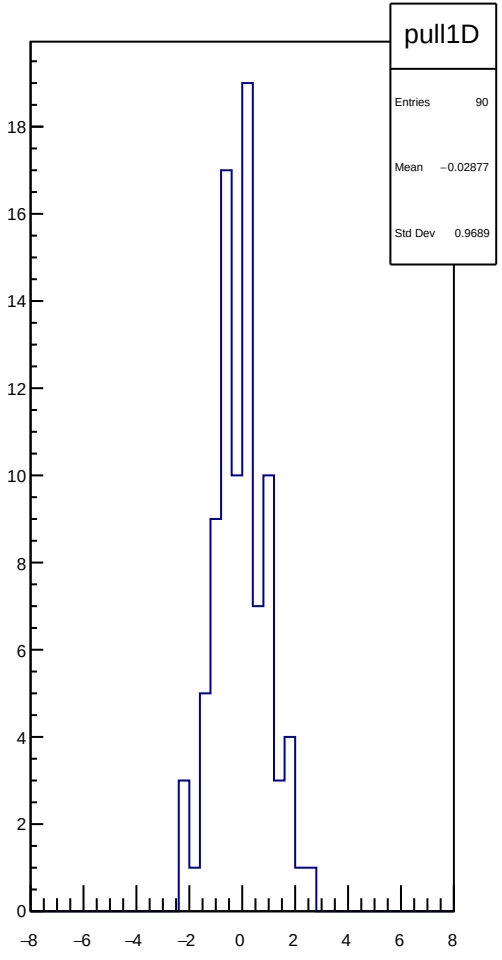

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1593 / 89
p0 3899 ± 2.941
4300
4200
4100
4000
3900
3800
3700
3600

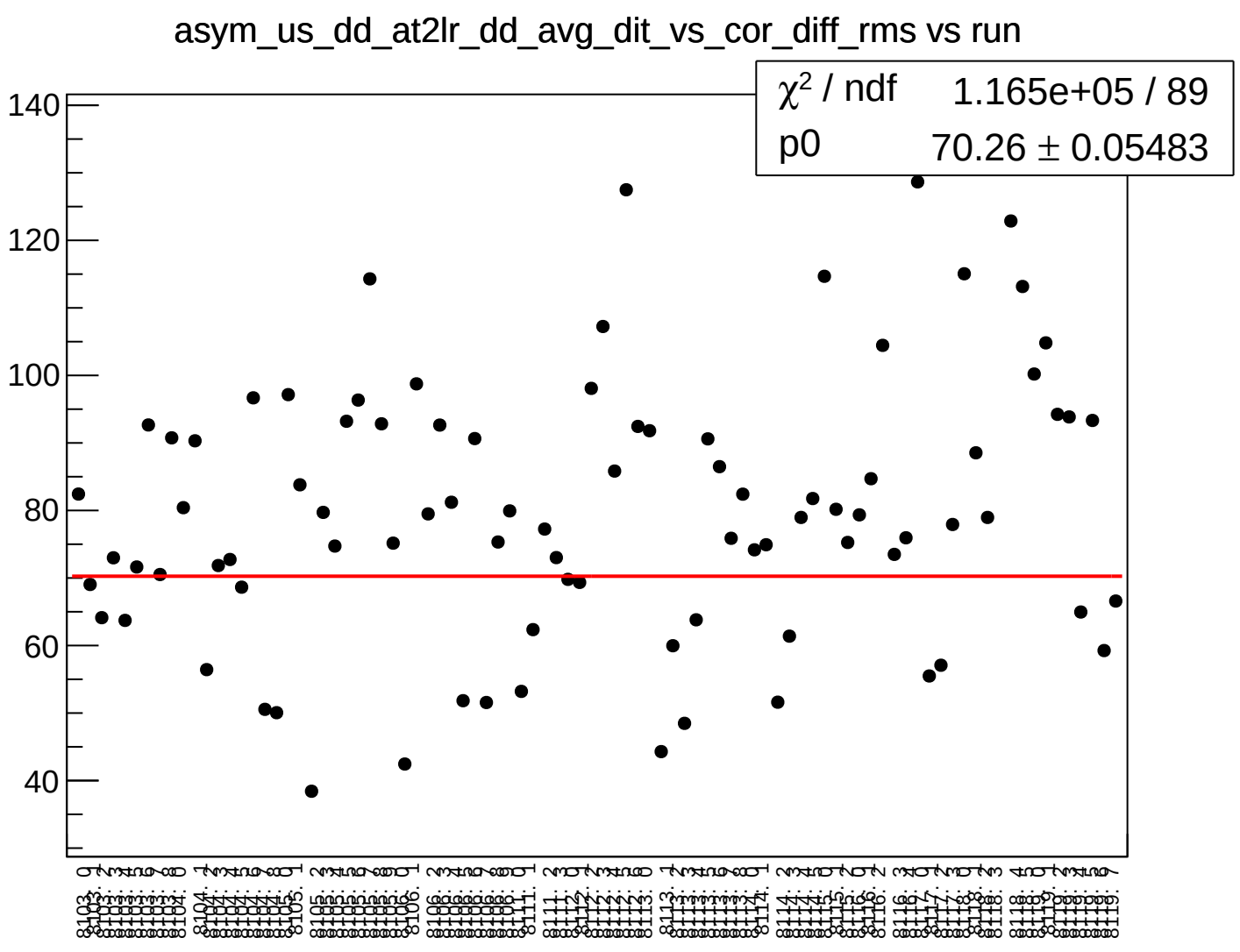

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86 / 89
p0 4.453e−13 ± 4.031e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 90
Mean 132
Std Dev 0
2
1
0
−1
−2

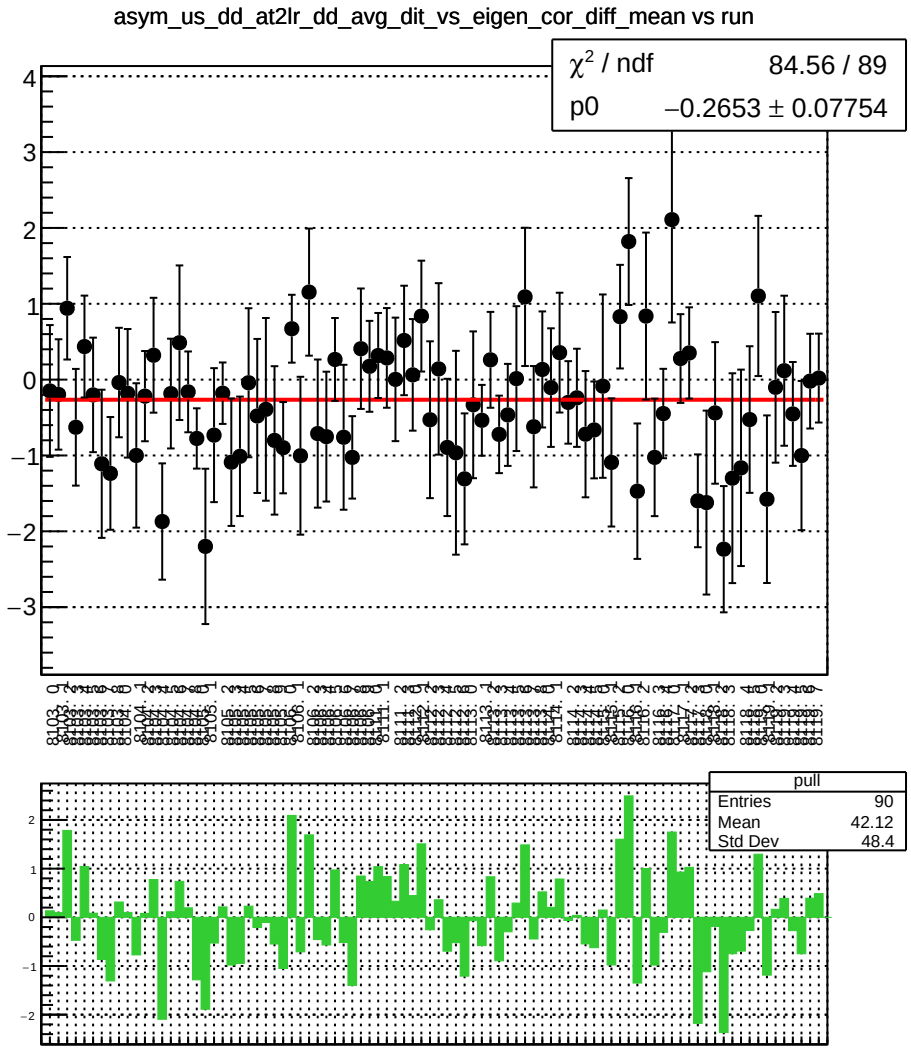

pull1D
Entries 90
Mean 0.02934
Std Dev 0.9771
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

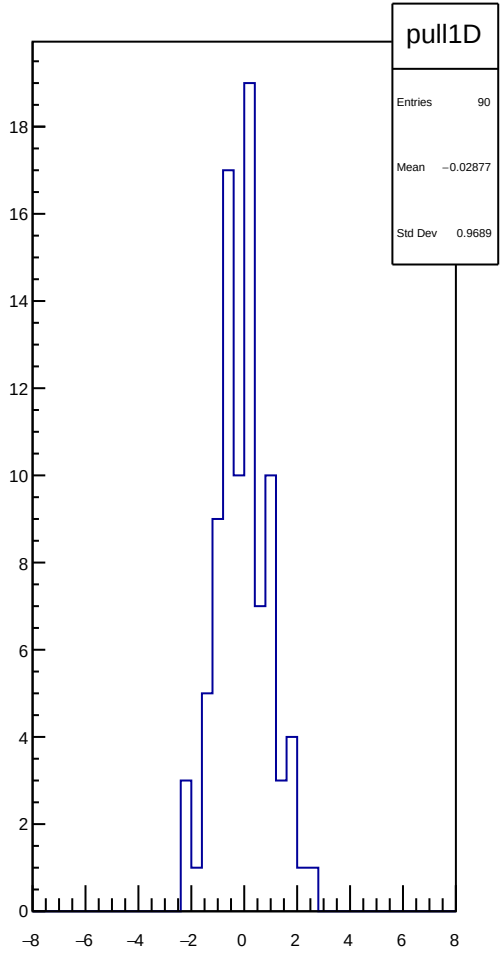

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.496e+05 / 89
p0 2.718e−10 ± 2.851e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

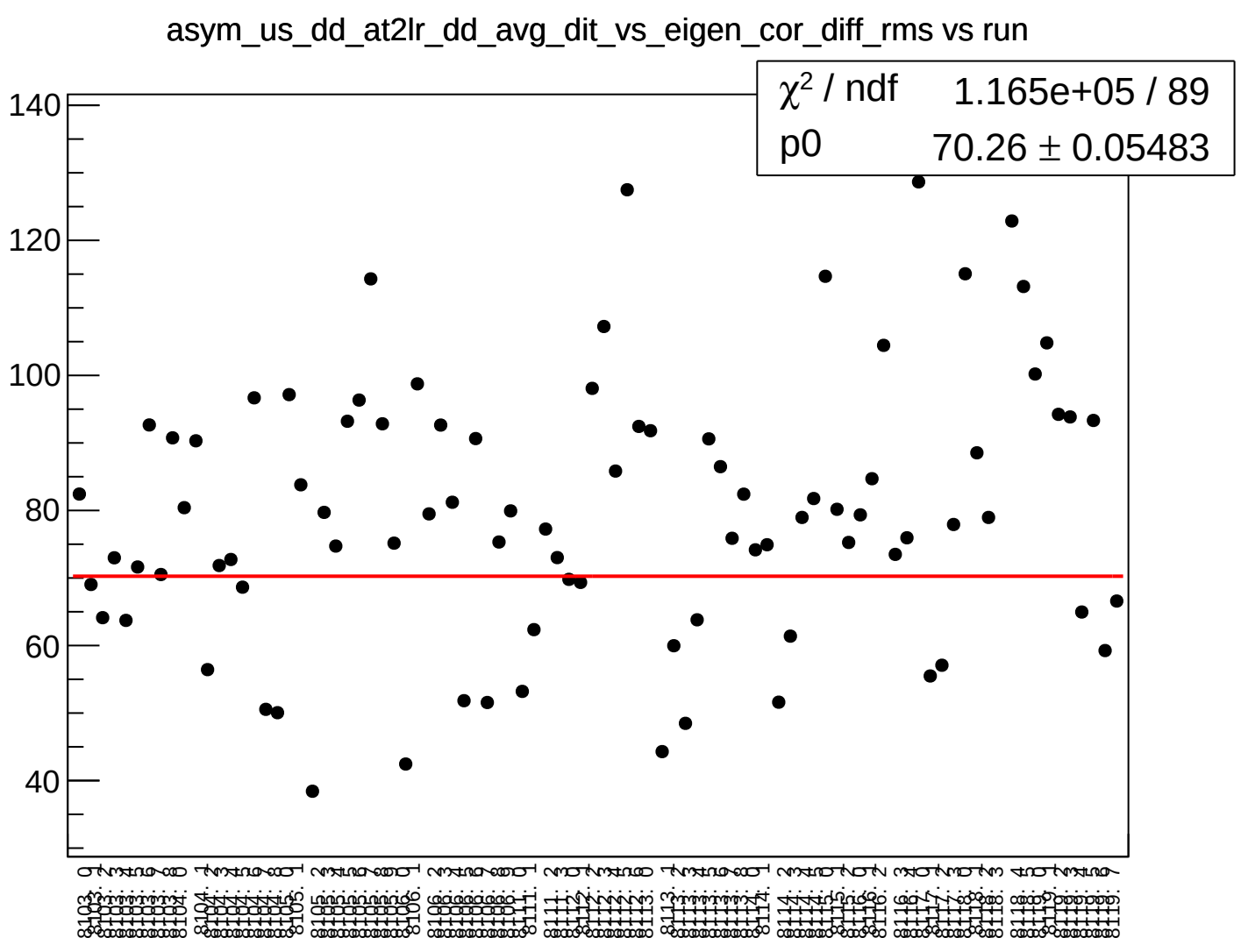

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.56 / 89
p0 −0.2653 ± 0.07754
pull
Entries 90
Mean 42.12
Std Dev 48.4

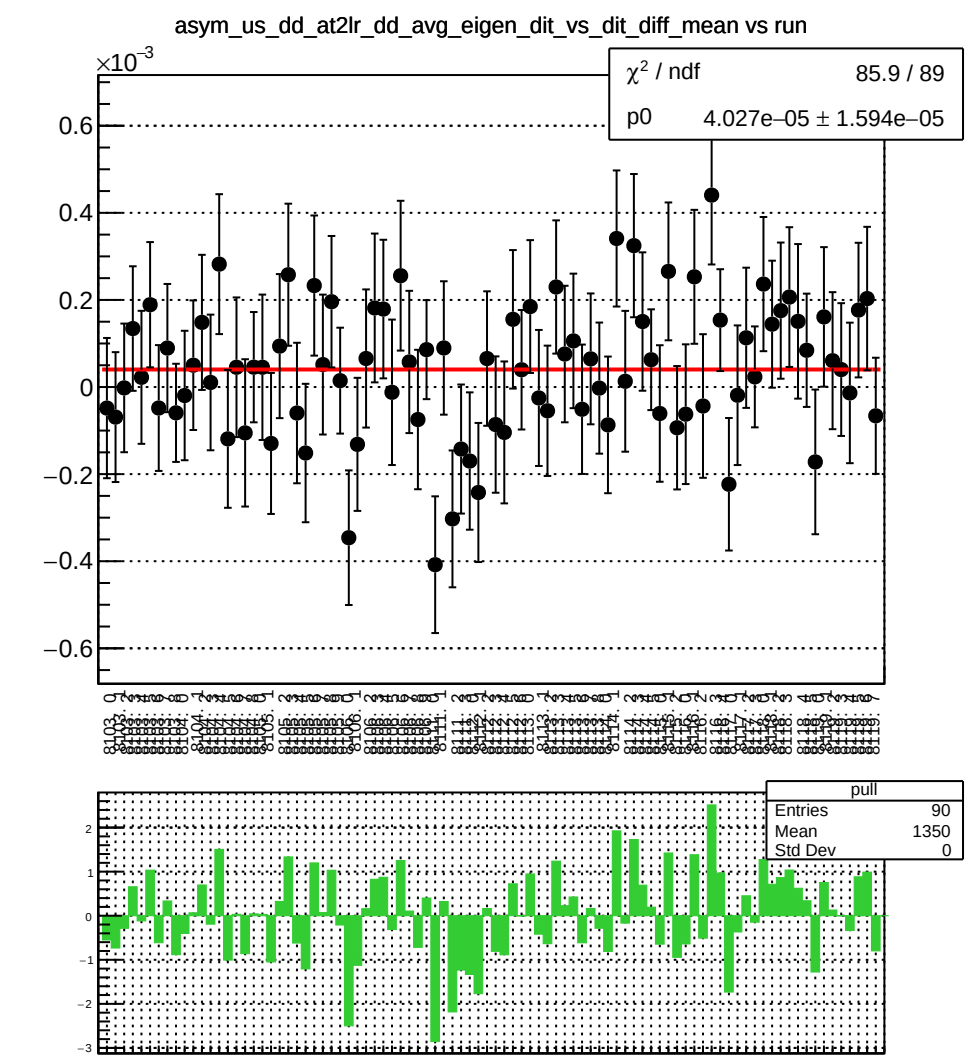

pull1D
Entries 90
Mean −0.02877
Std Dev 0.9689

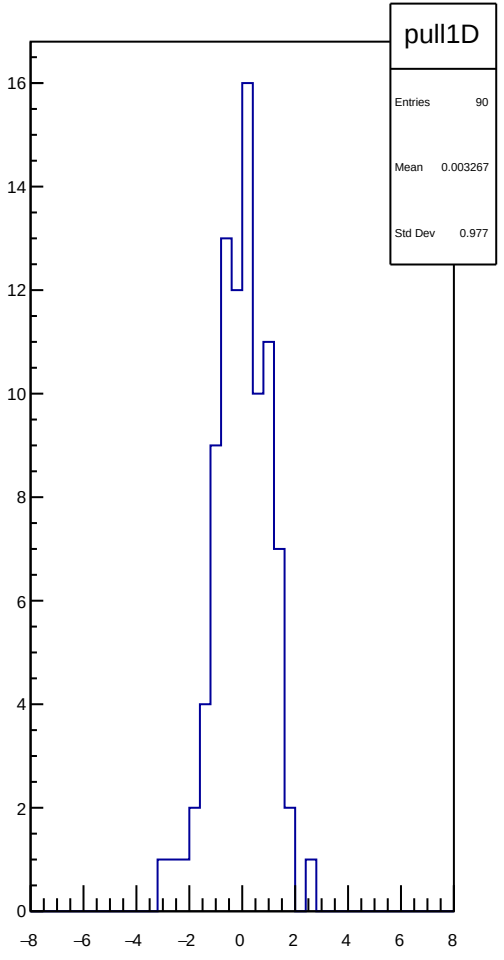

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 89
p0 70.26 ± 0.05483
140
120
100
80
60
40

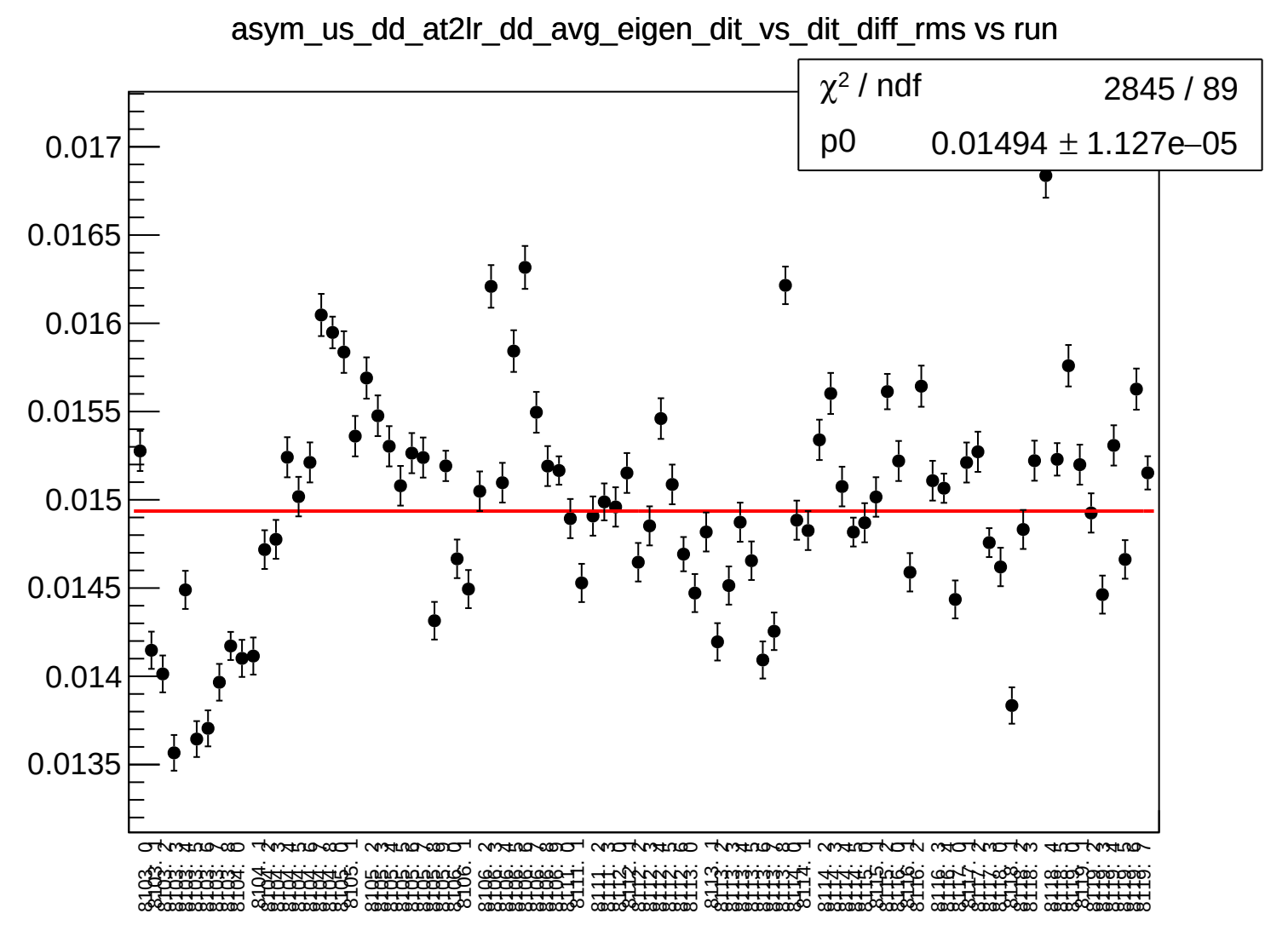

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.56 / 89
p0 −0.2653 ± 0.07754
pull
Entries 90
Mean 42.12
Std Dev 48.4

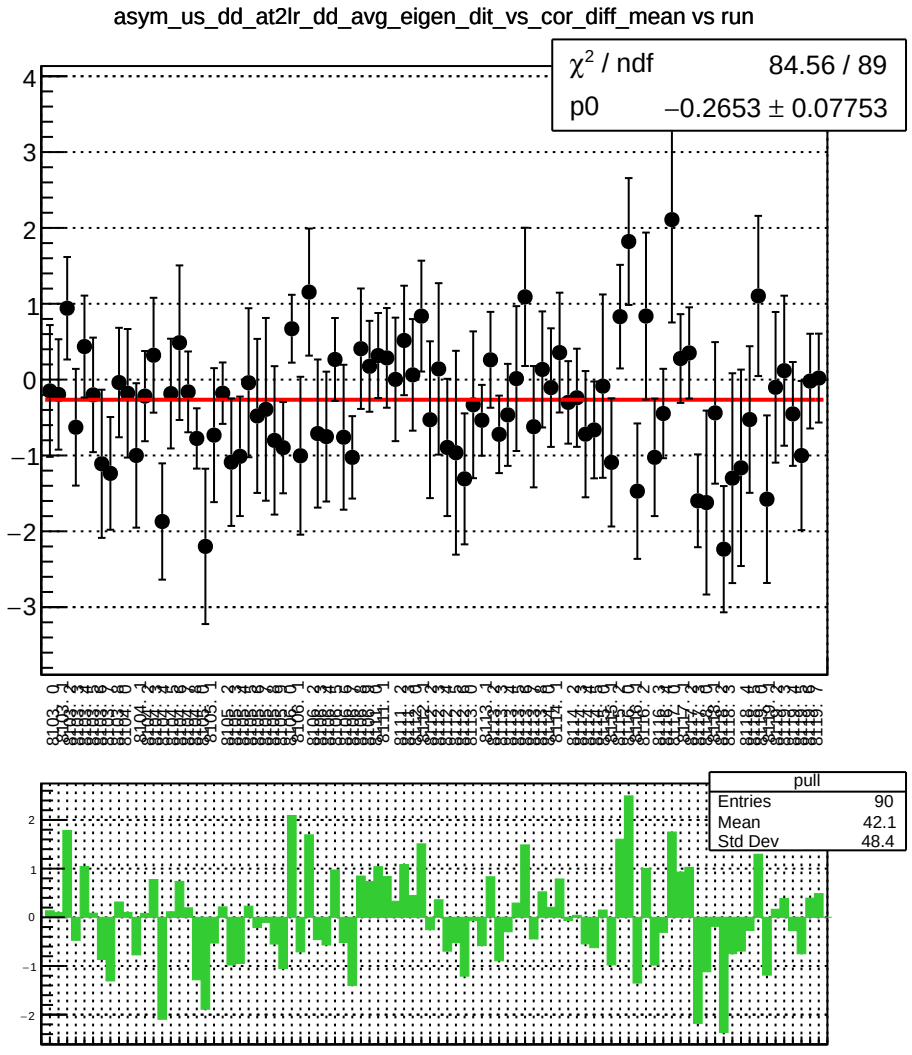

pull1D
Entries 90
Mean −0.02877
Std Dev 0.9689

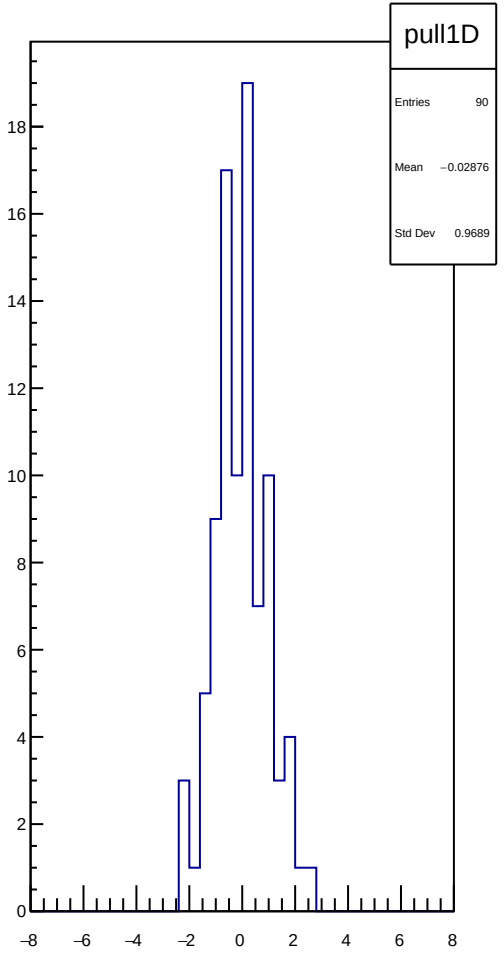

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 89
p0 70.26 ± 0.05483
140
120
100
80
60
40

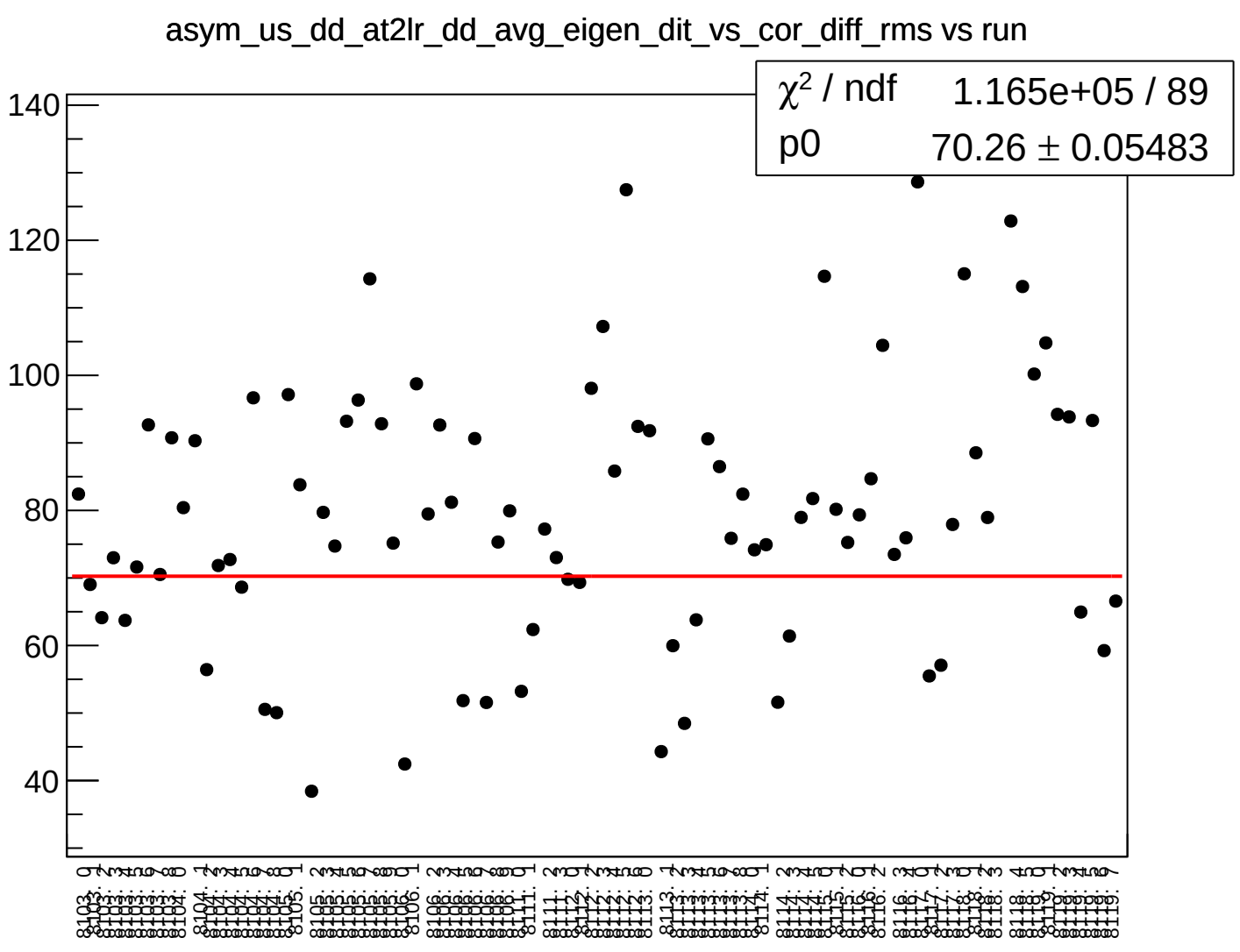

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.9 / 89
p0 4.027e−05 ± 1.594e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 90
Mean 1350
Std Dev 0
2
1
0
−1
−2
−3

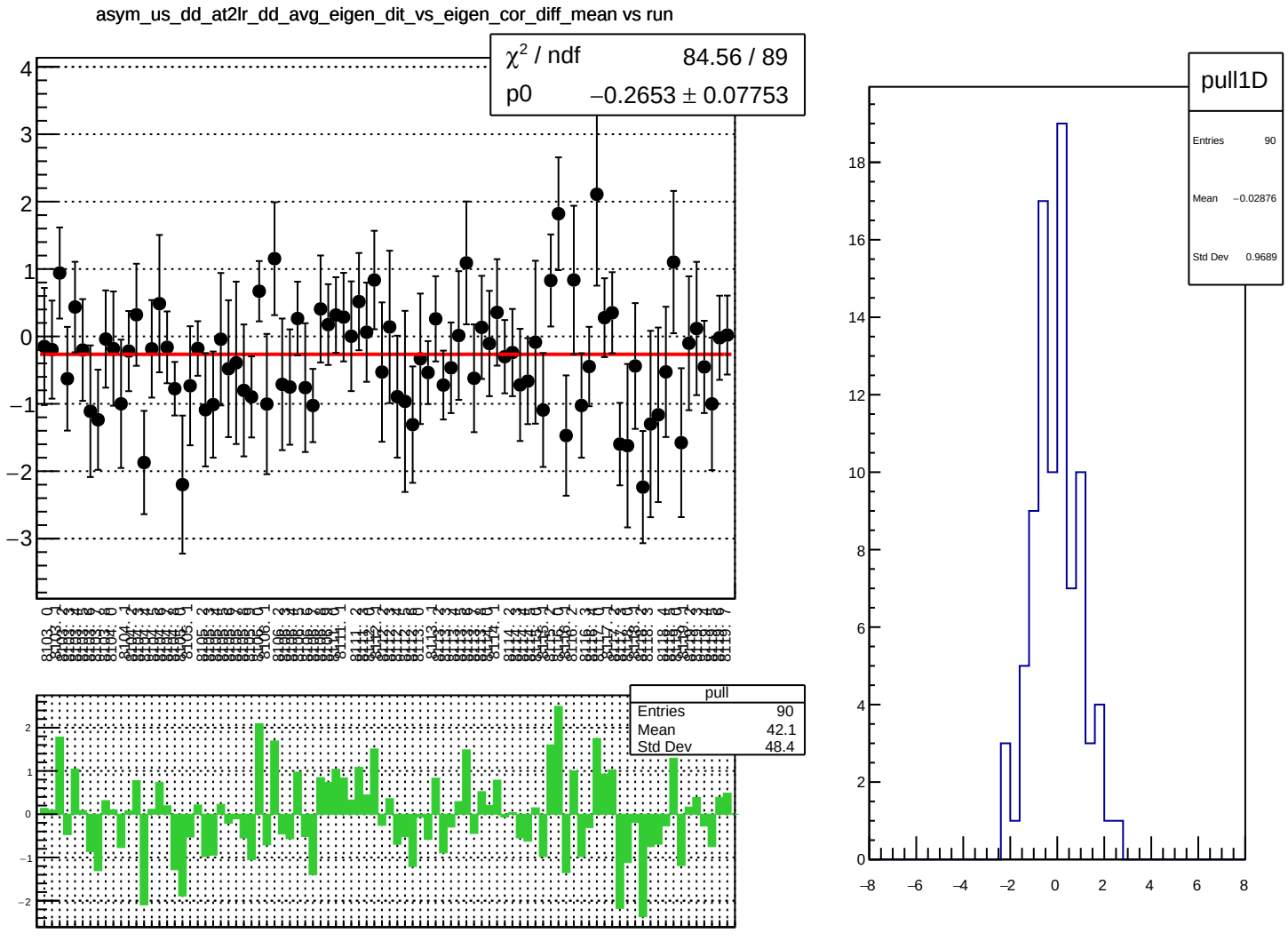

pull1D
Entries 90
Mean 0.003267
Std Dev 0.977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

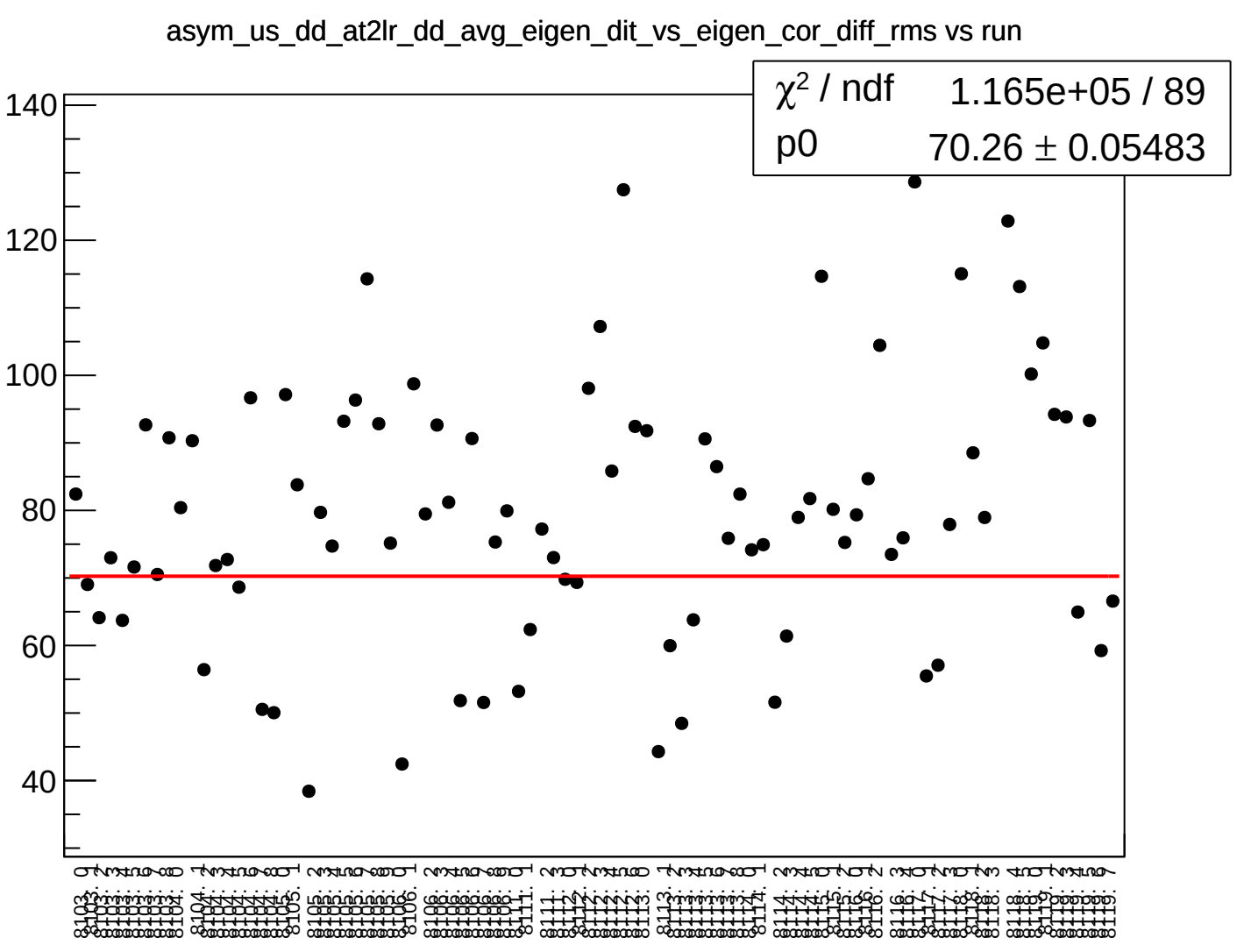

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2845 / 89
p0 0.01494 ± 1.127e−05
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135

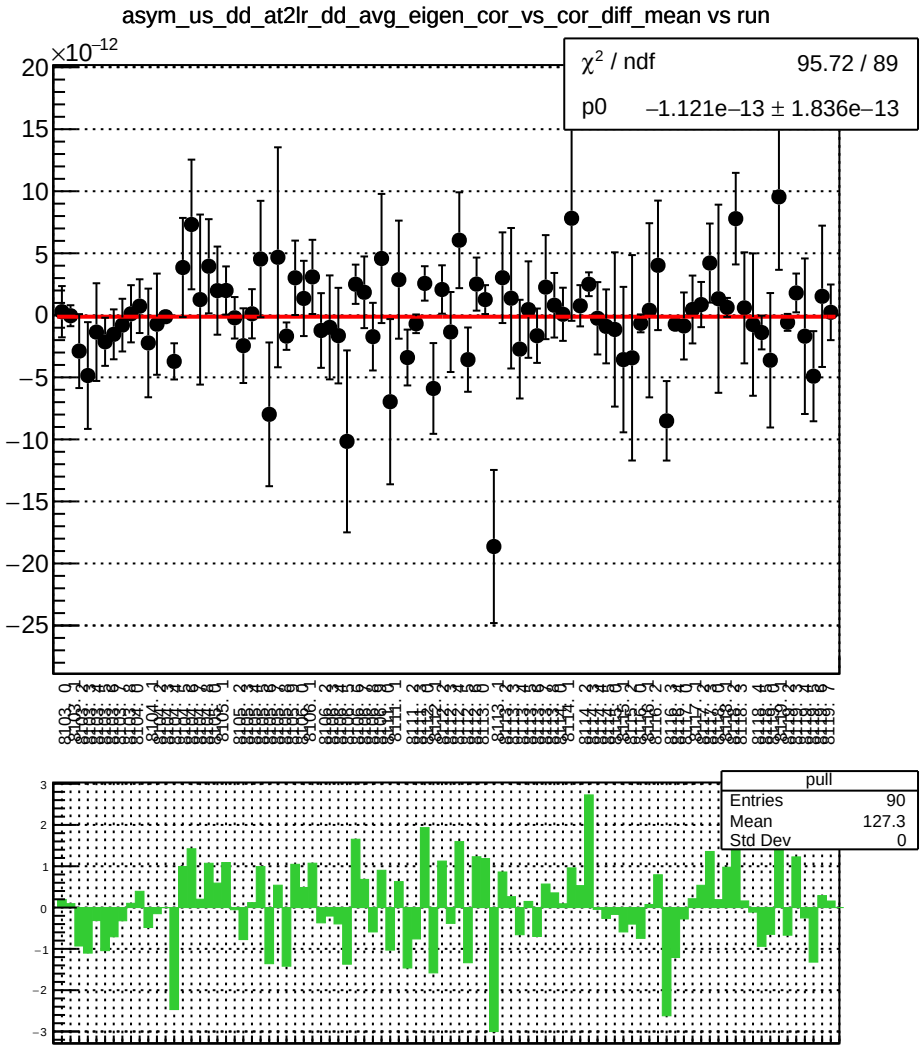

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.56 / 89
p0 −0.2653 ± 0.07753
pull
Entries 90
Mean 42.1
Std Dev 48.4

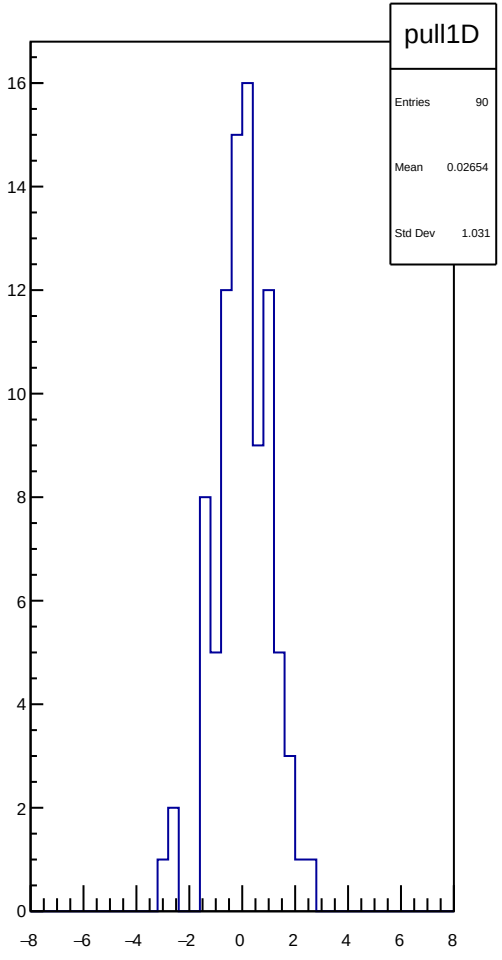

pull1D
Entries 90
Mean −0.02876
Std Dev 0.9689

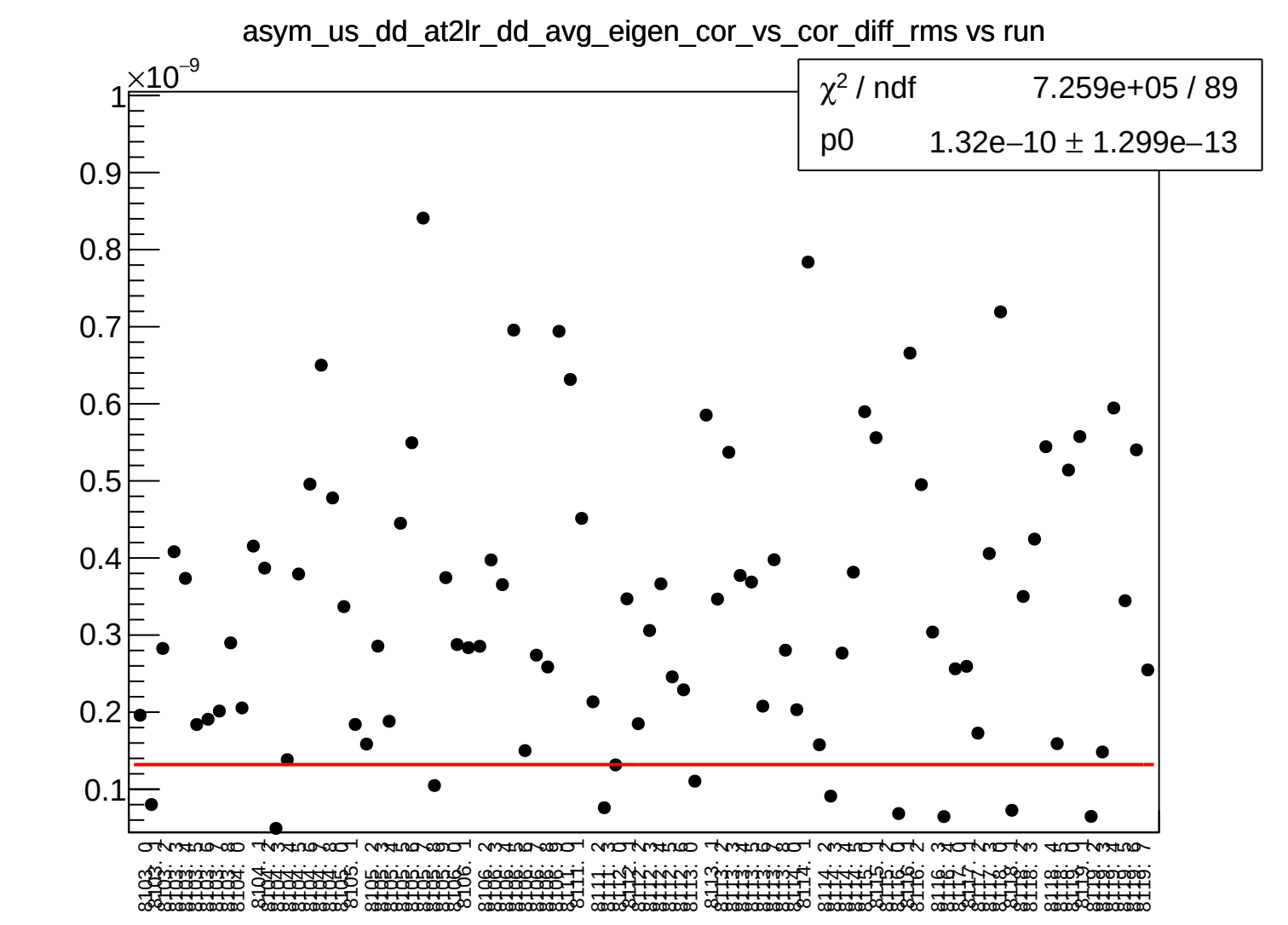

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 89
p0 70.26 ± 0.05483
140
120
100
80
60
40

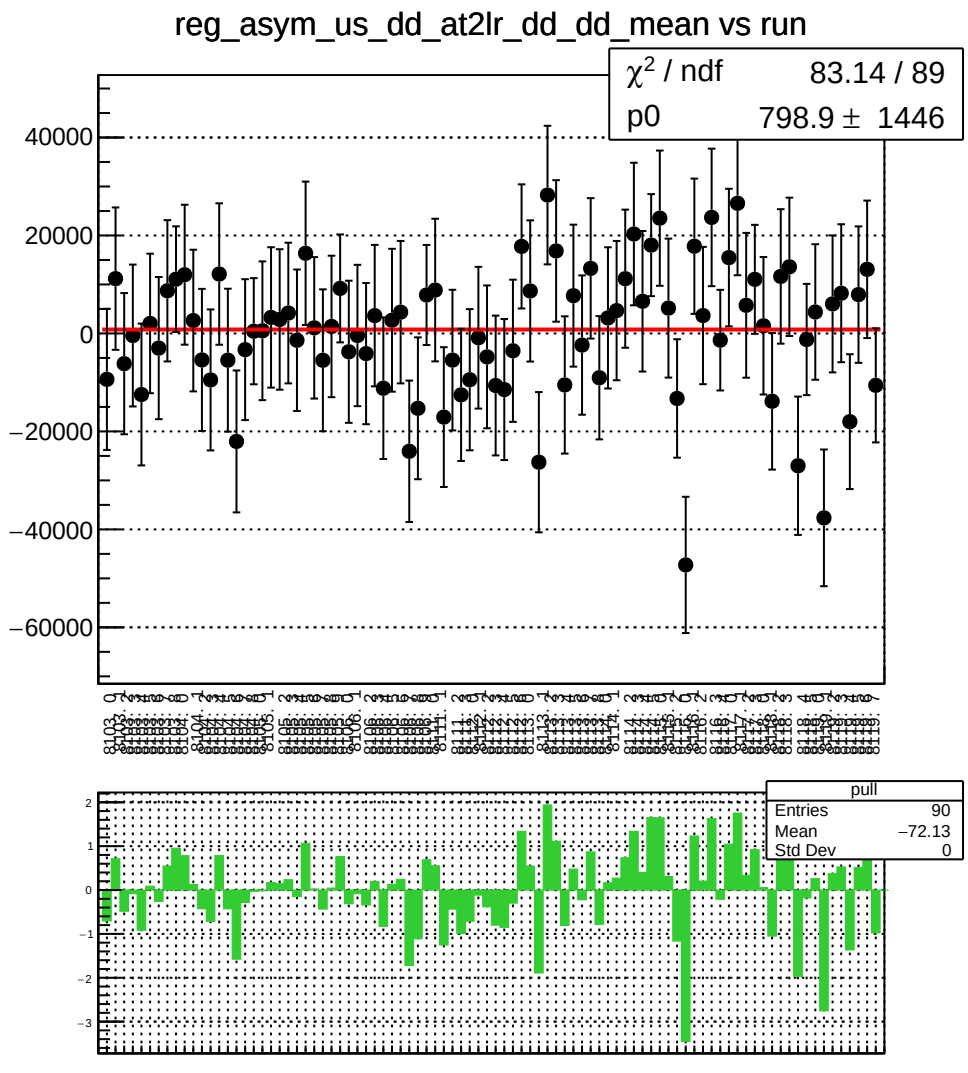

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.56 / 89
p0 −0.2653 ± 0.07753
pull
Entries 90
Mean 42.1
Std Dev 48.4
pull1D
Entries 90
Mean −0.02876
Std Dev 0.9689

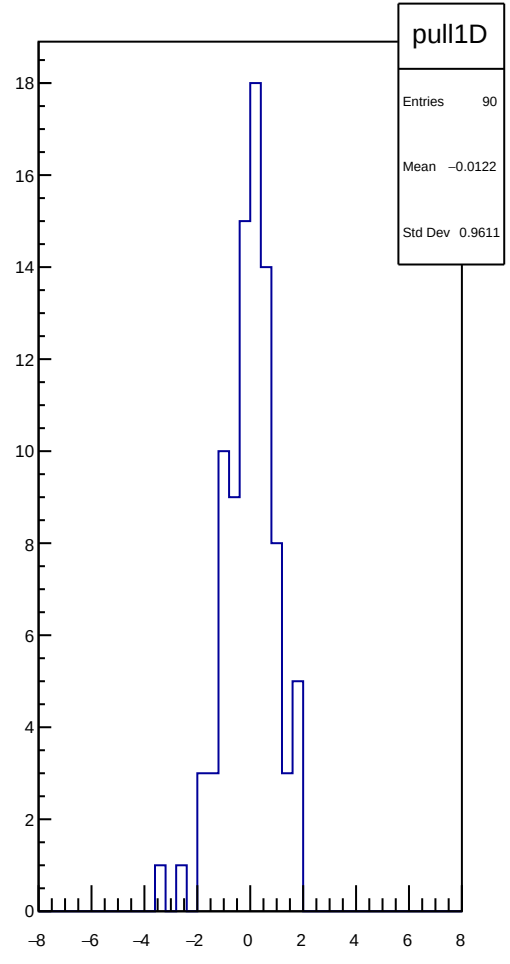

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 89
p0 70.26 ± 0.05483
140
120
100
80
60
40

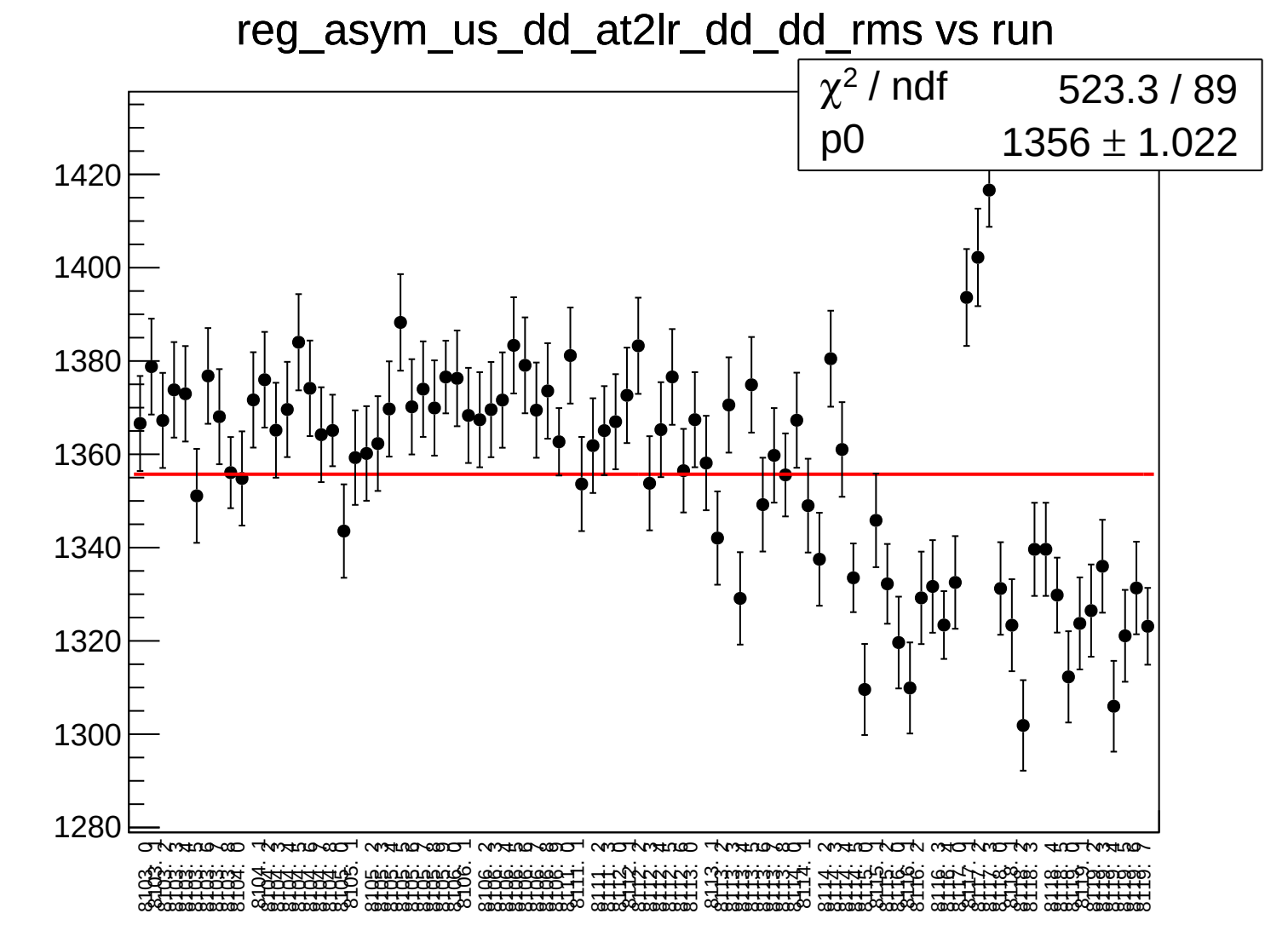

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.72 / 89
p0 −1.121e−13 ± 1.836e−13
pull
Entries 90
Mean 127.3
Std Dev 0

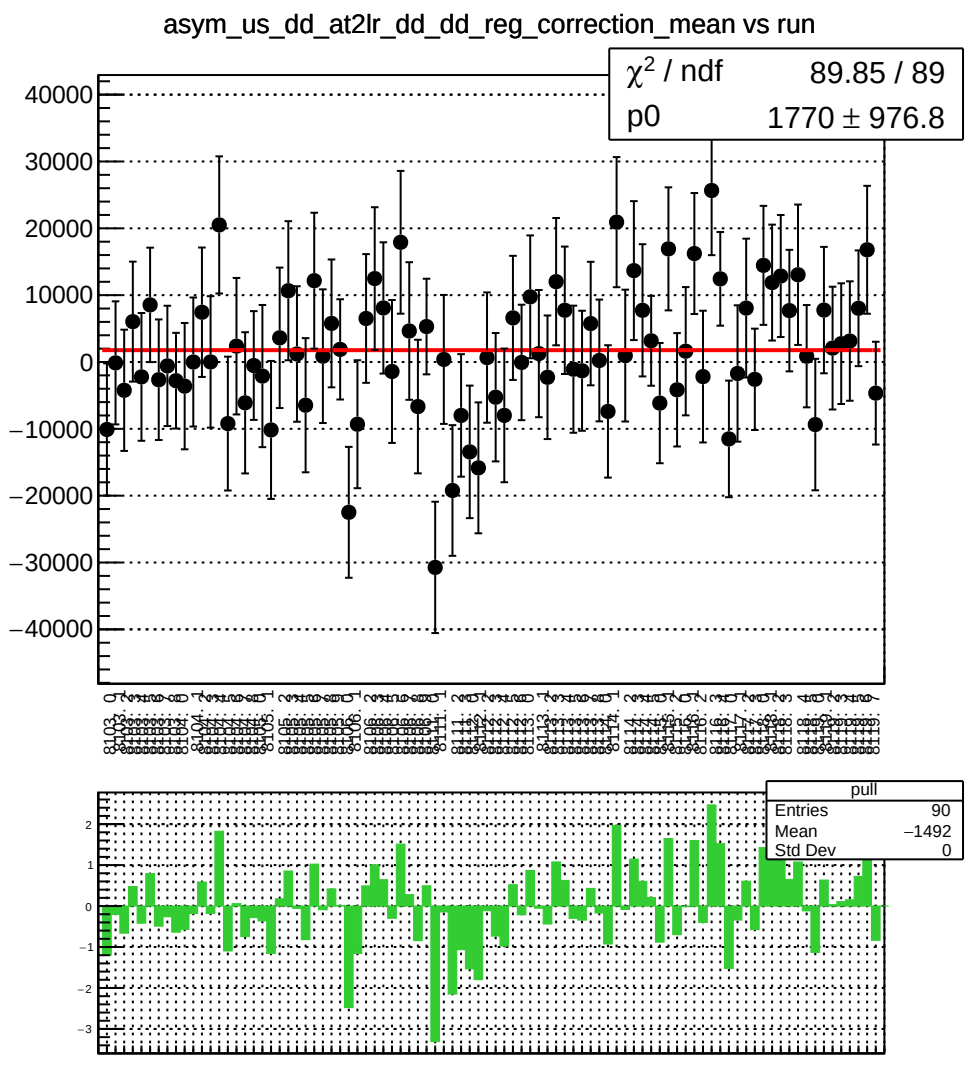

pull1D
Entries 90
Mean 0.02654
Std Dev 1.031

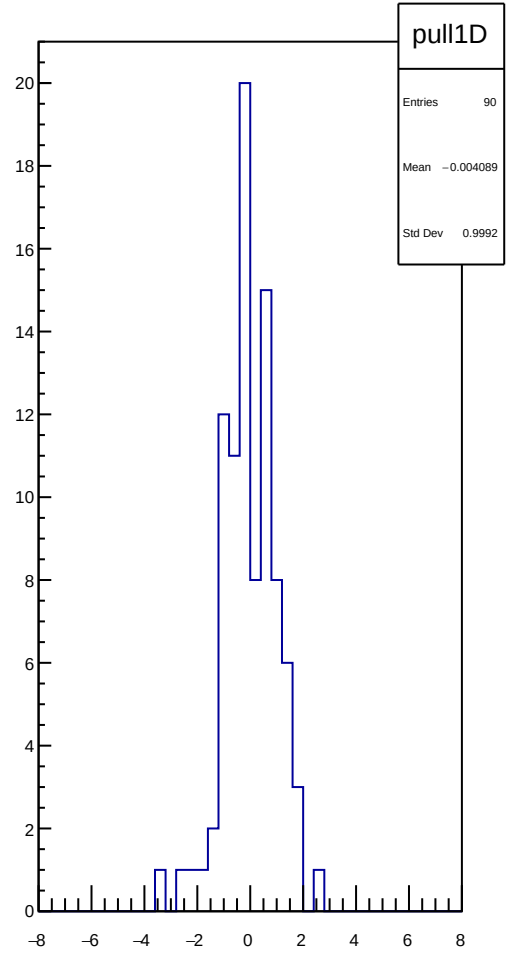

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.259e+05 / 89
p0 1.32e−10 ± 1.299e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

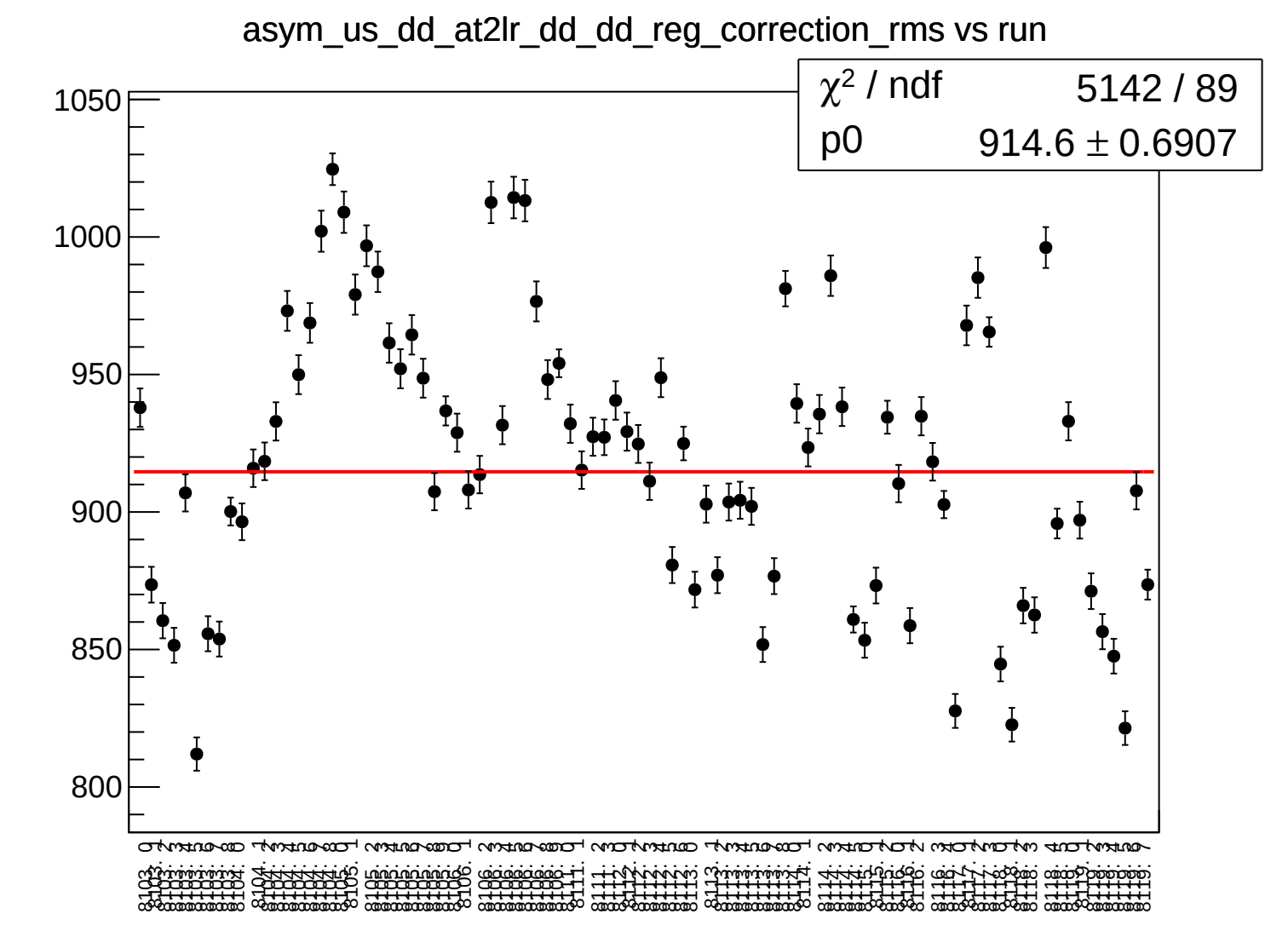

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.14 / 89
p0 798.9 ± 1446
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −72.13
Std Dev 0
2
1
0
−1
−2
−3

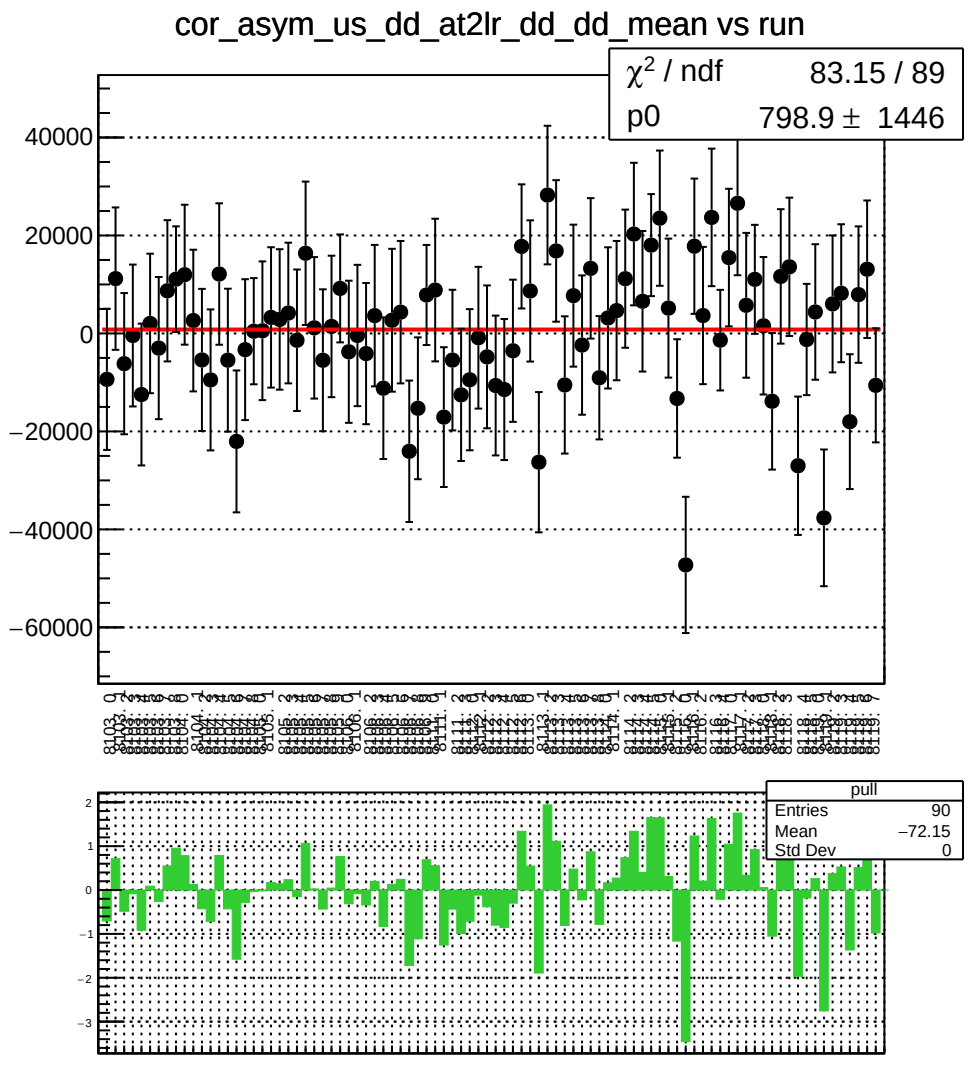

pull1D
Entries 90
Mean −0.0122
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

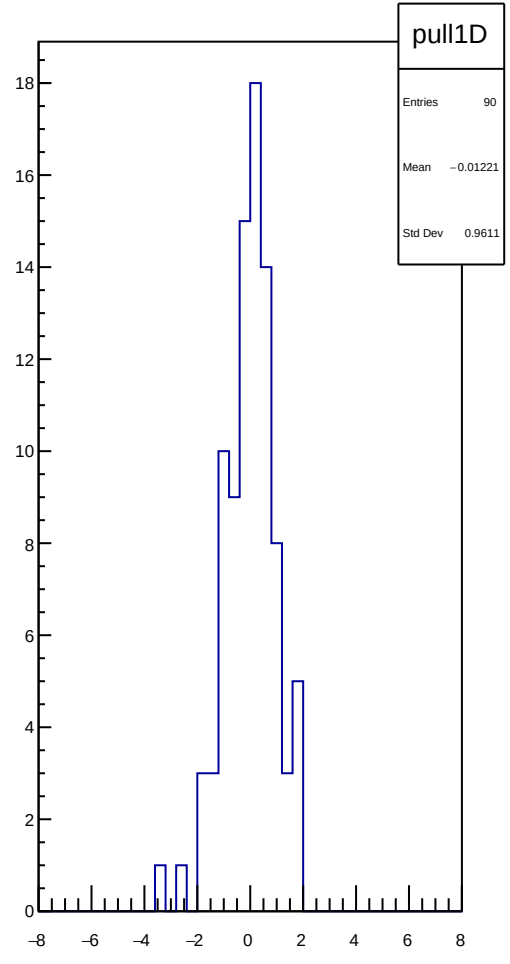

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 523.3 / 89
p0 1356 ± 1.022
1420
1400
1380
1360
1340
1320
1300
1280

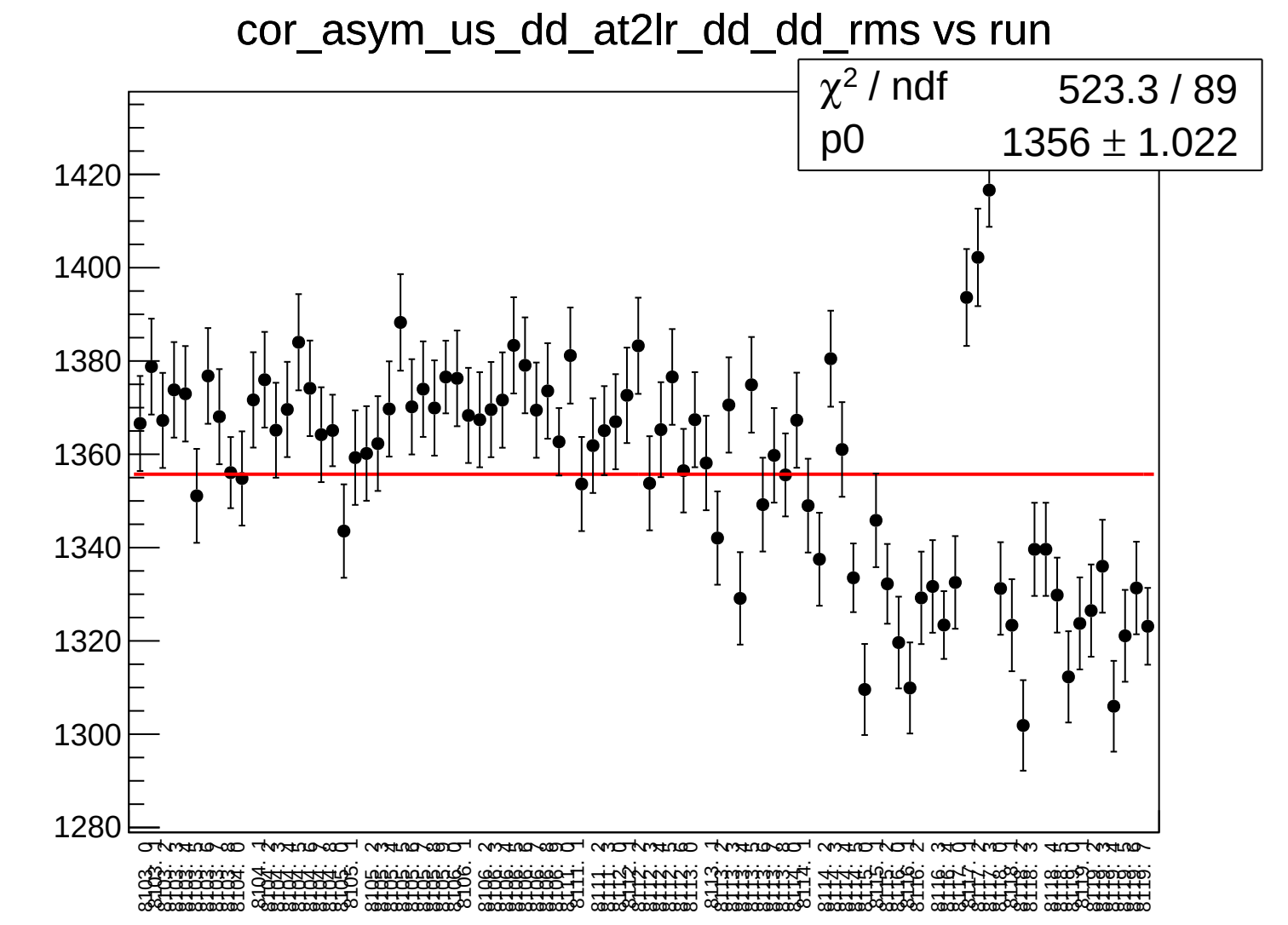

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 89.85 / 89
p0 1770 ± 976.8
pull
Entries 90
Mean −1492
Std Dev 0

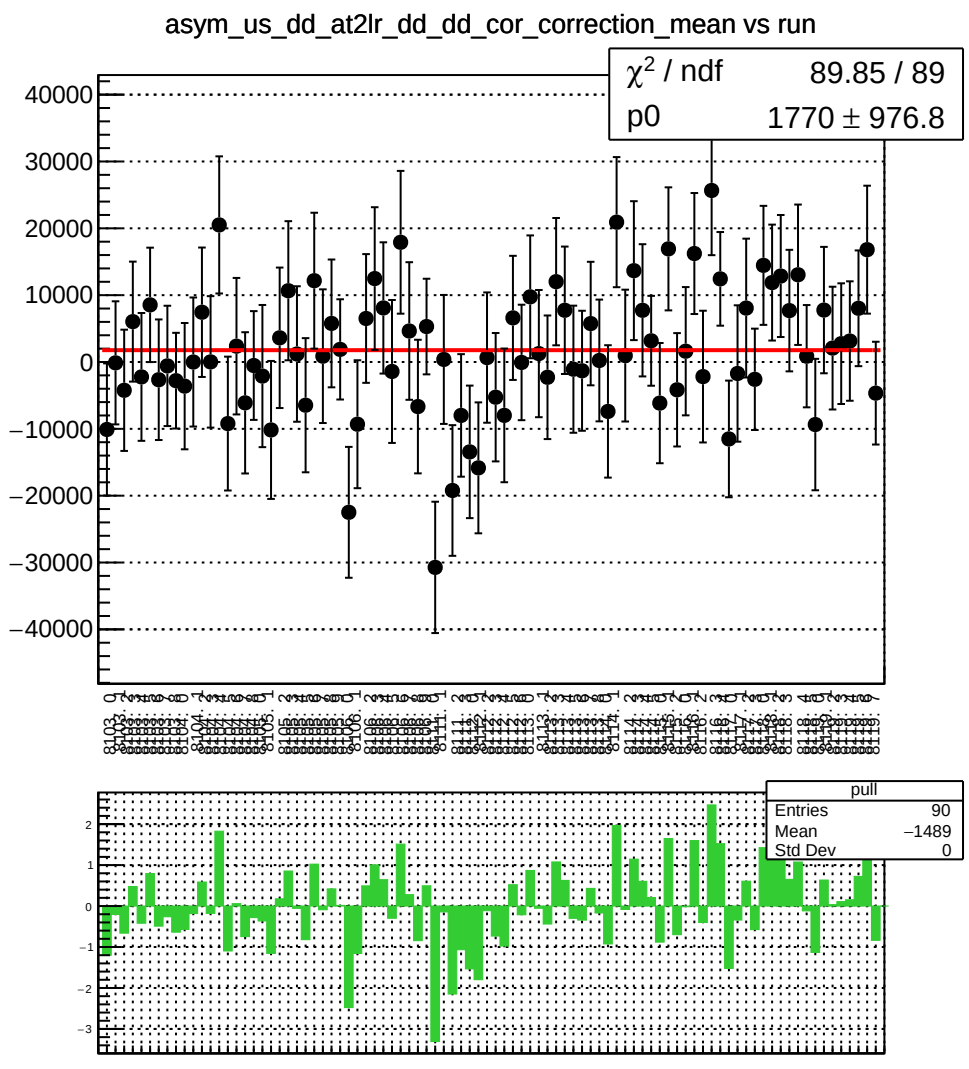

pull1D
Entries 90
Mean −0.004089
Std Dev 0.9992

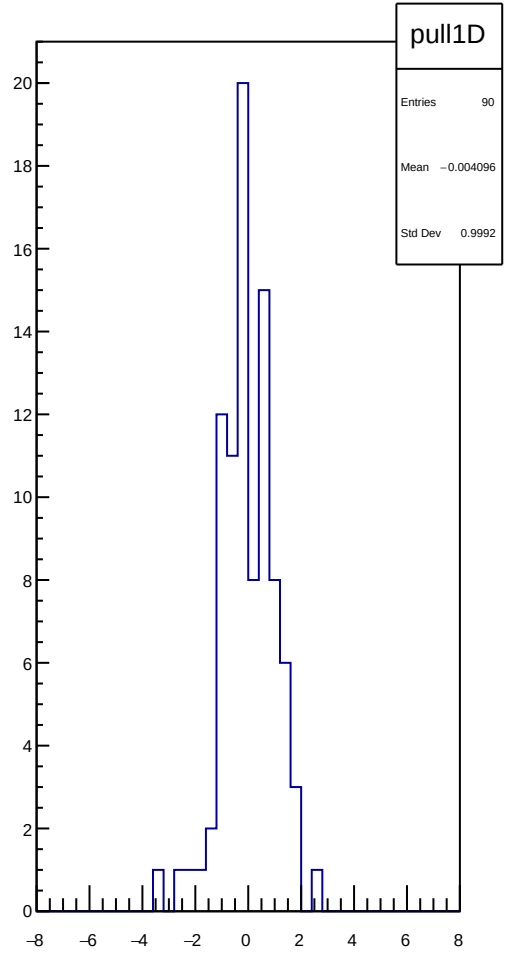

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5142 / 89
p0 914.6 ± 0.6907
1050
1000
950
900
850
800

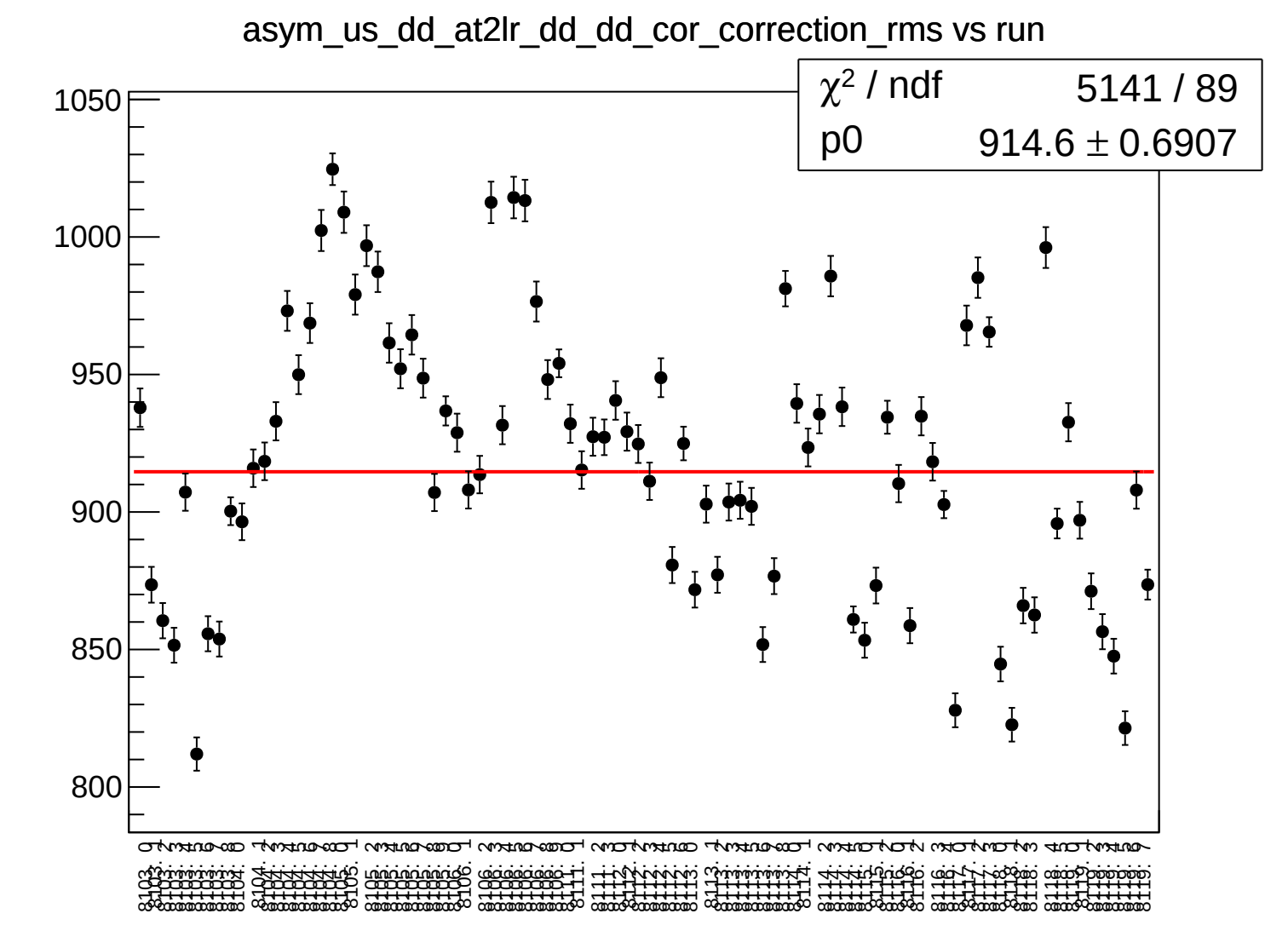

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.15 / 89
p0 798.9 ± 1446
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −72.15
Std Dev 0
2
1
0
−1
−2
−3

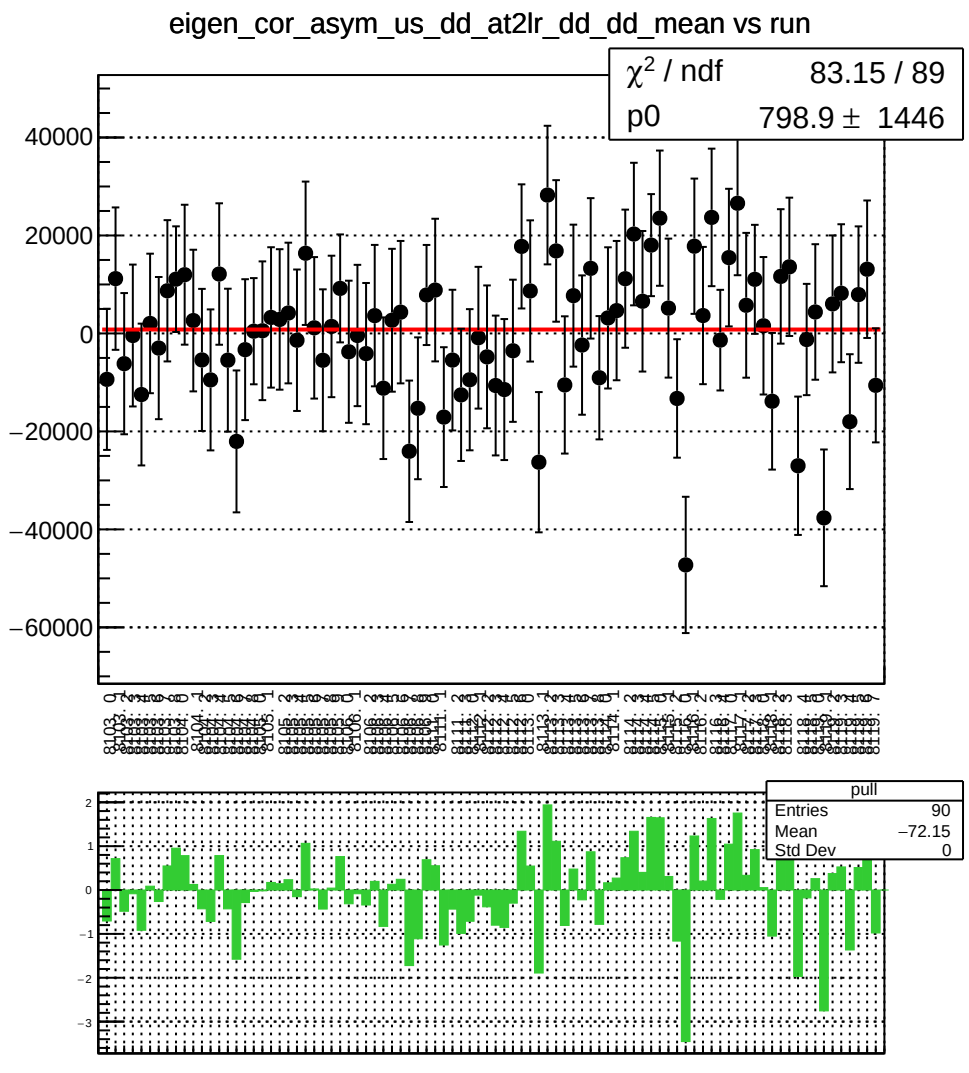

pull1D
Entries 90
Mean −0.01221
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

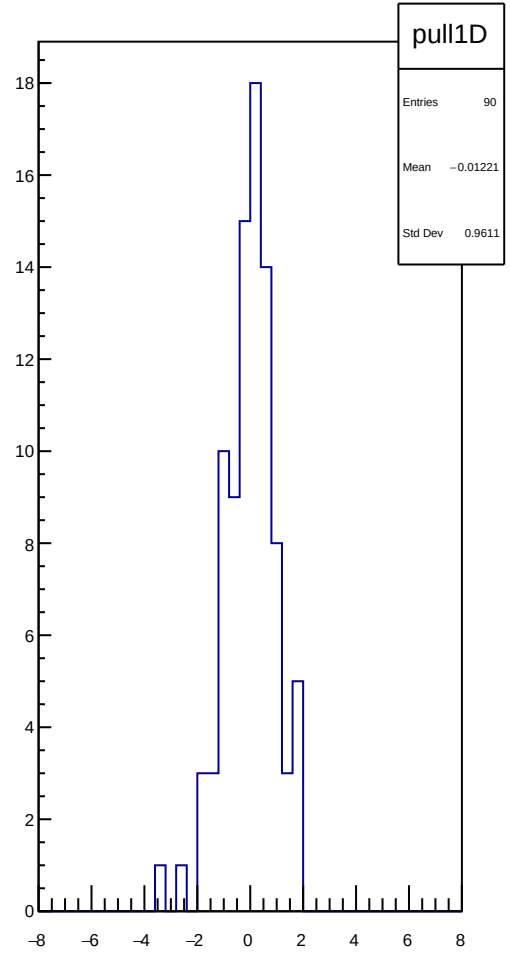

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 523.3 / 89
p0 1356 ± 1.022
1420
1400
1380
1360
1340
1320
1300
1280

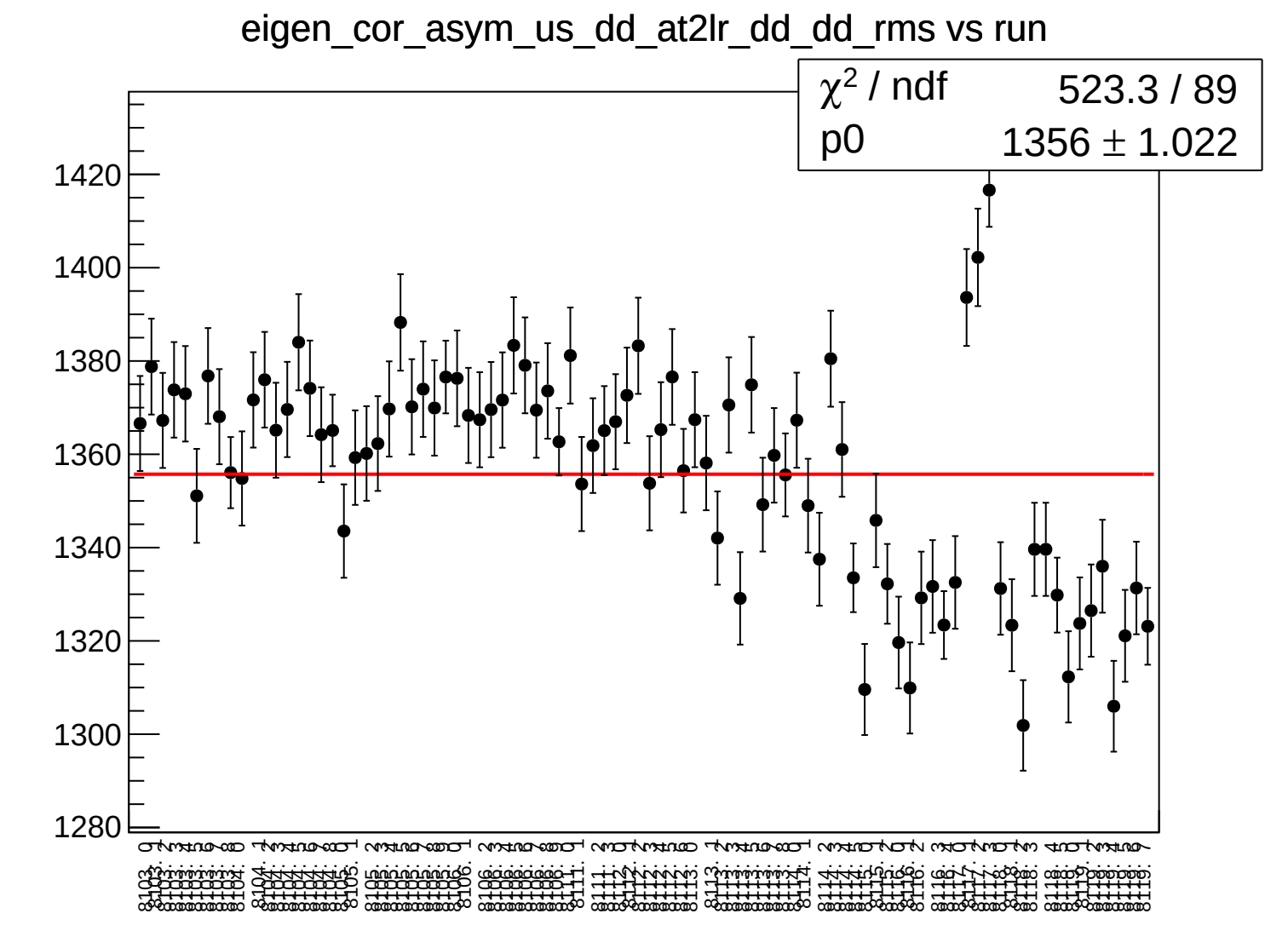

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 89.85 / 89
p0 1770 ± 976.8
pull
Entries 90
Mean −1489
Std Dev 0

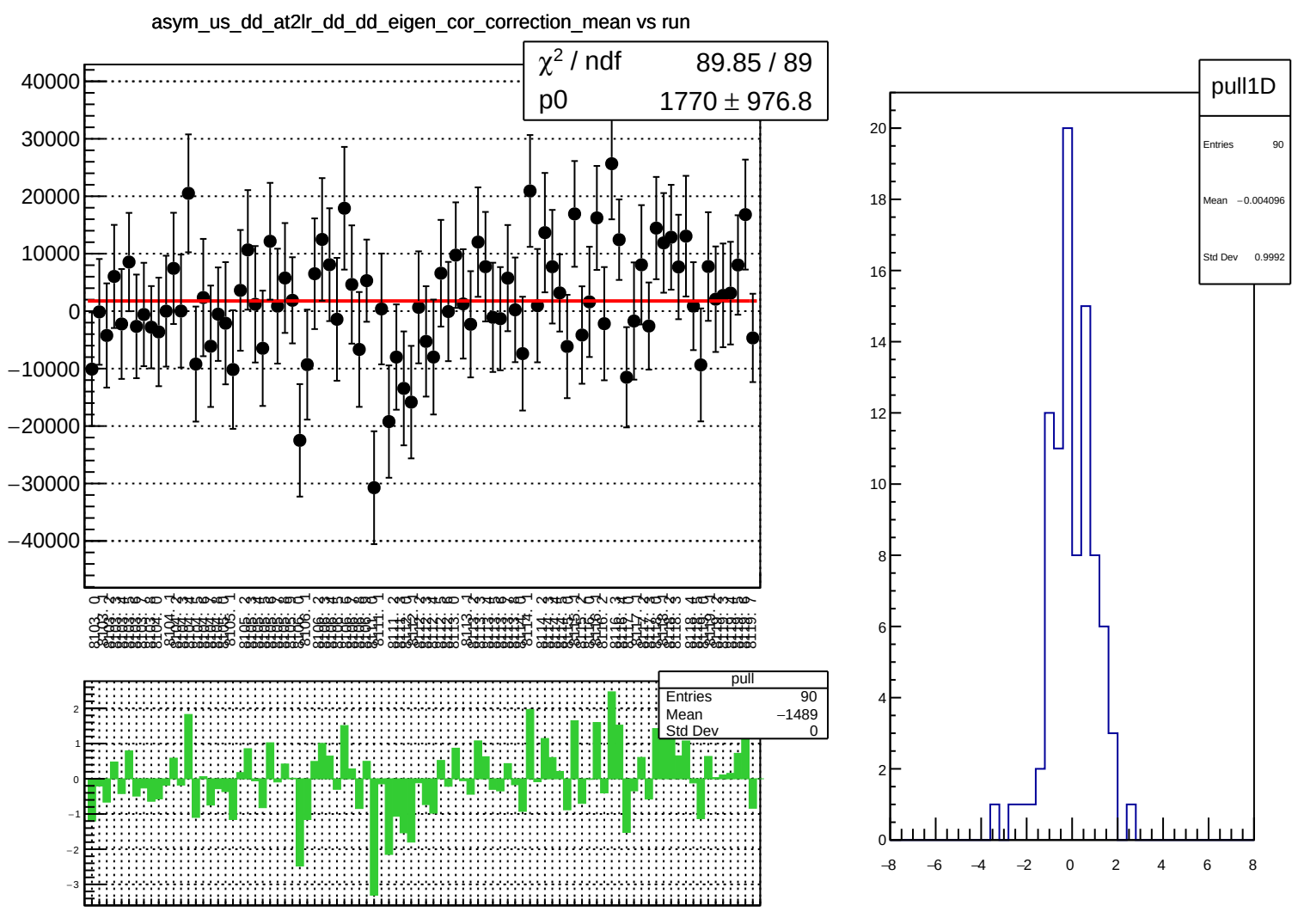

pull1D
Entries 90
Mean −0.004096
Std Dev 0.9992

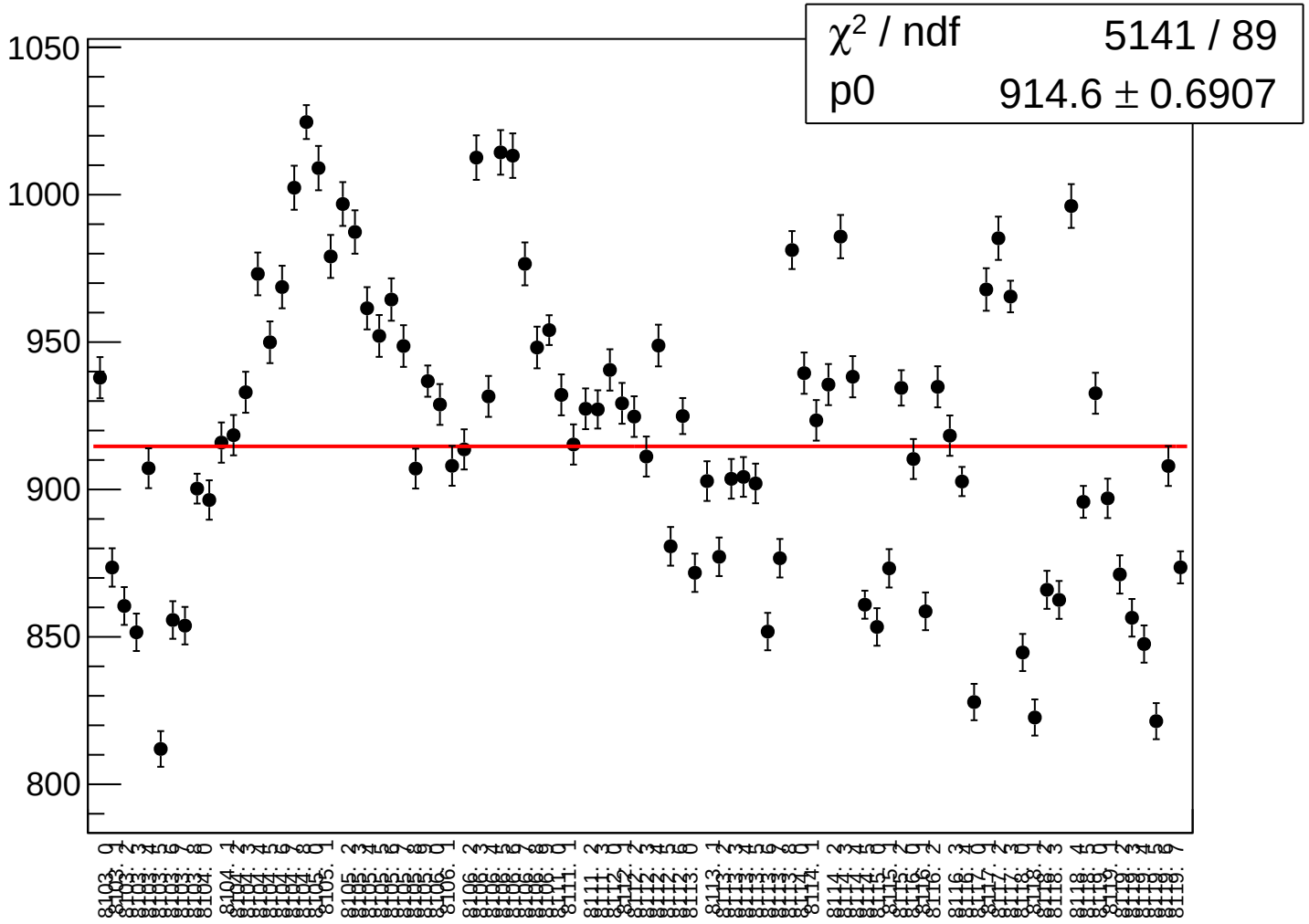

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5141 / 89
p0 914.6 ± 0.6907
1050
1000
950
900
850
800

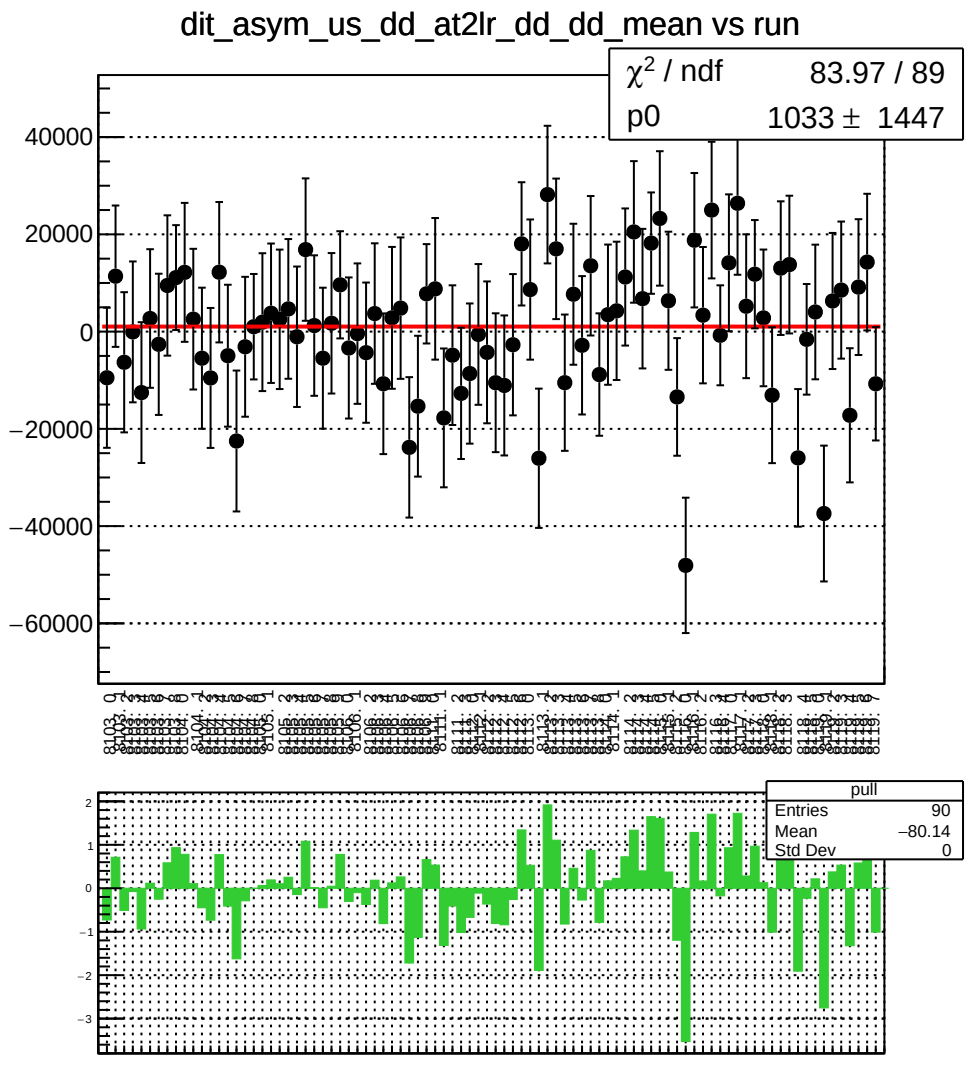

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.15 / 89
p0 798.9 ± 1446
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −72.15
Std Dev 0
2
1
0
−1
−2
−3

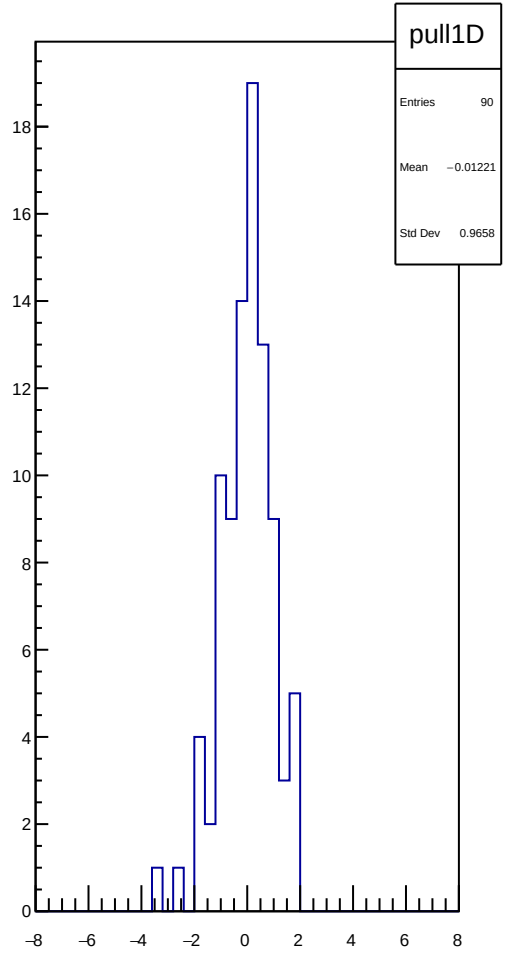

pull1D
Entries 90
Mean −0.01221
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

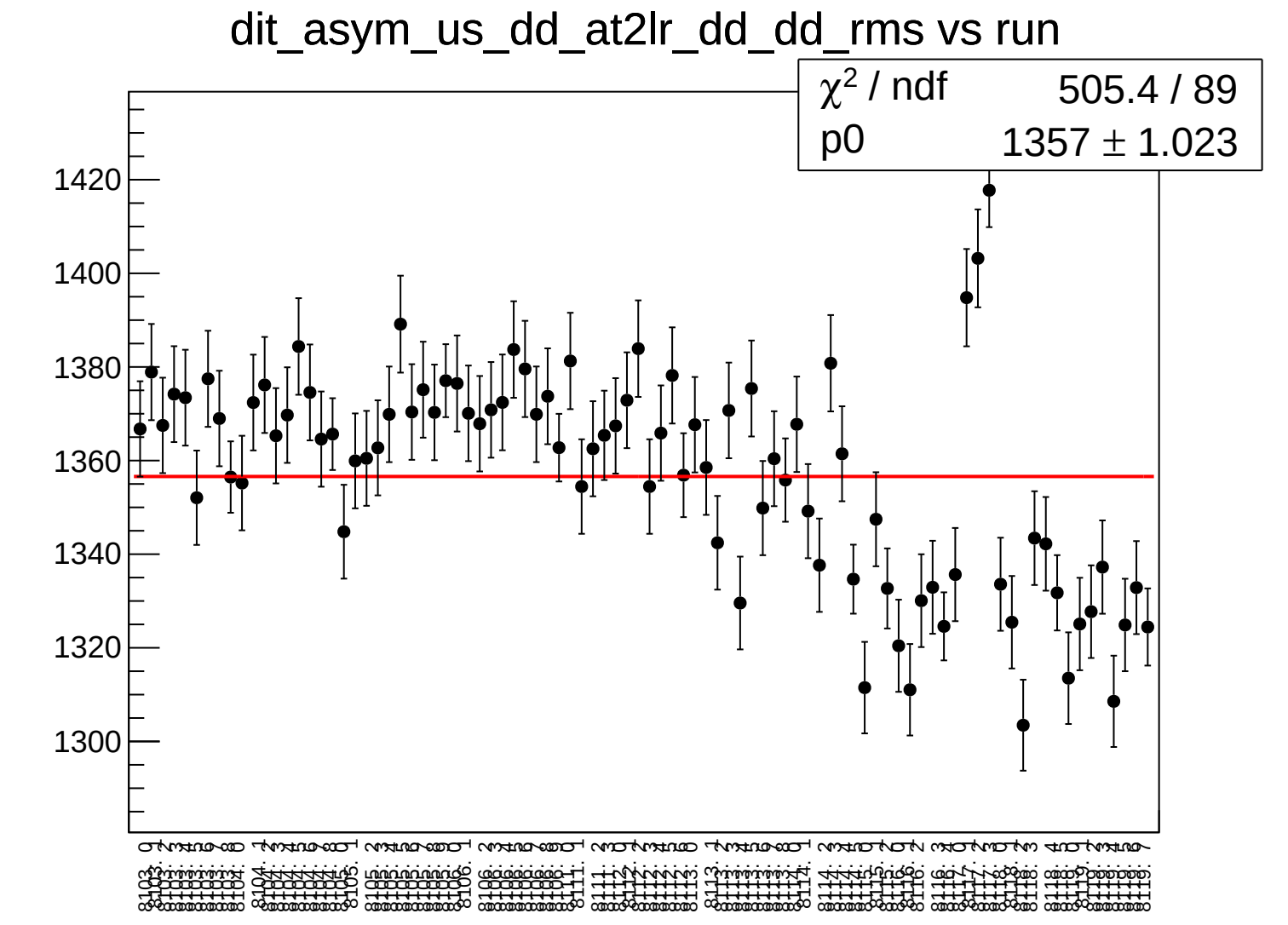

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 523.3 / 89
p0 1356 ± 1.022
1420
1400
1380
1360
1340
1320
1300
1280

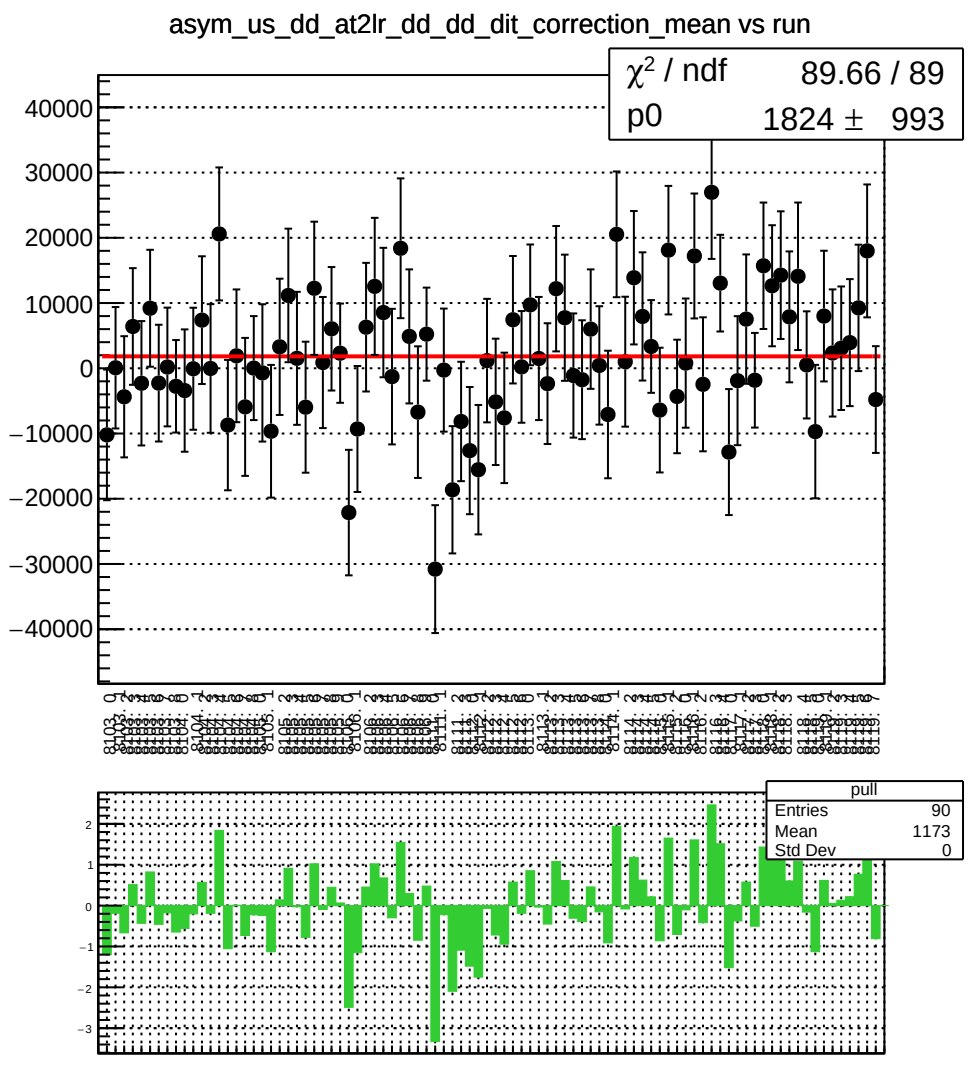

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.85 / 89
p0 1770 ± 976.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1489
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean −0.004096
Std Dev 0.9992
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

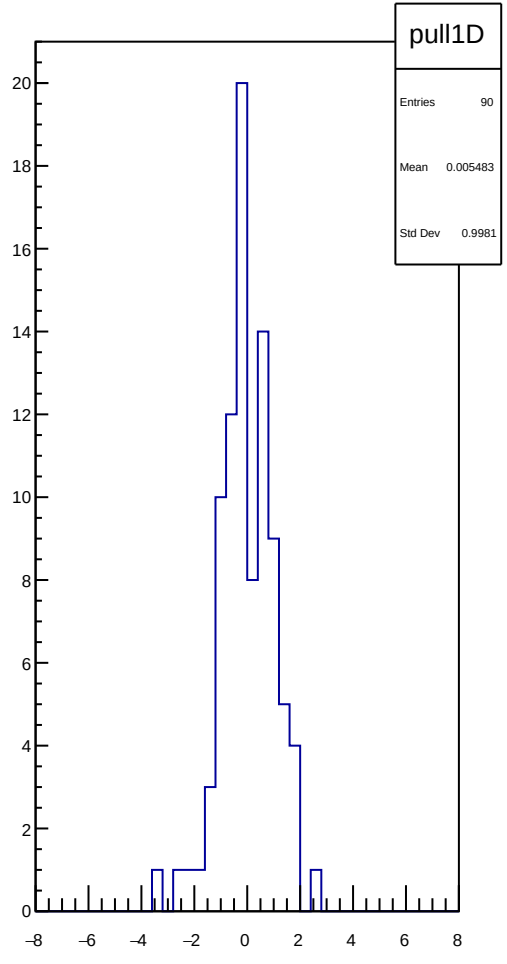

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5141 / 89
p0 914.6 ± 0.6907
1050
1000
950
900
850
800

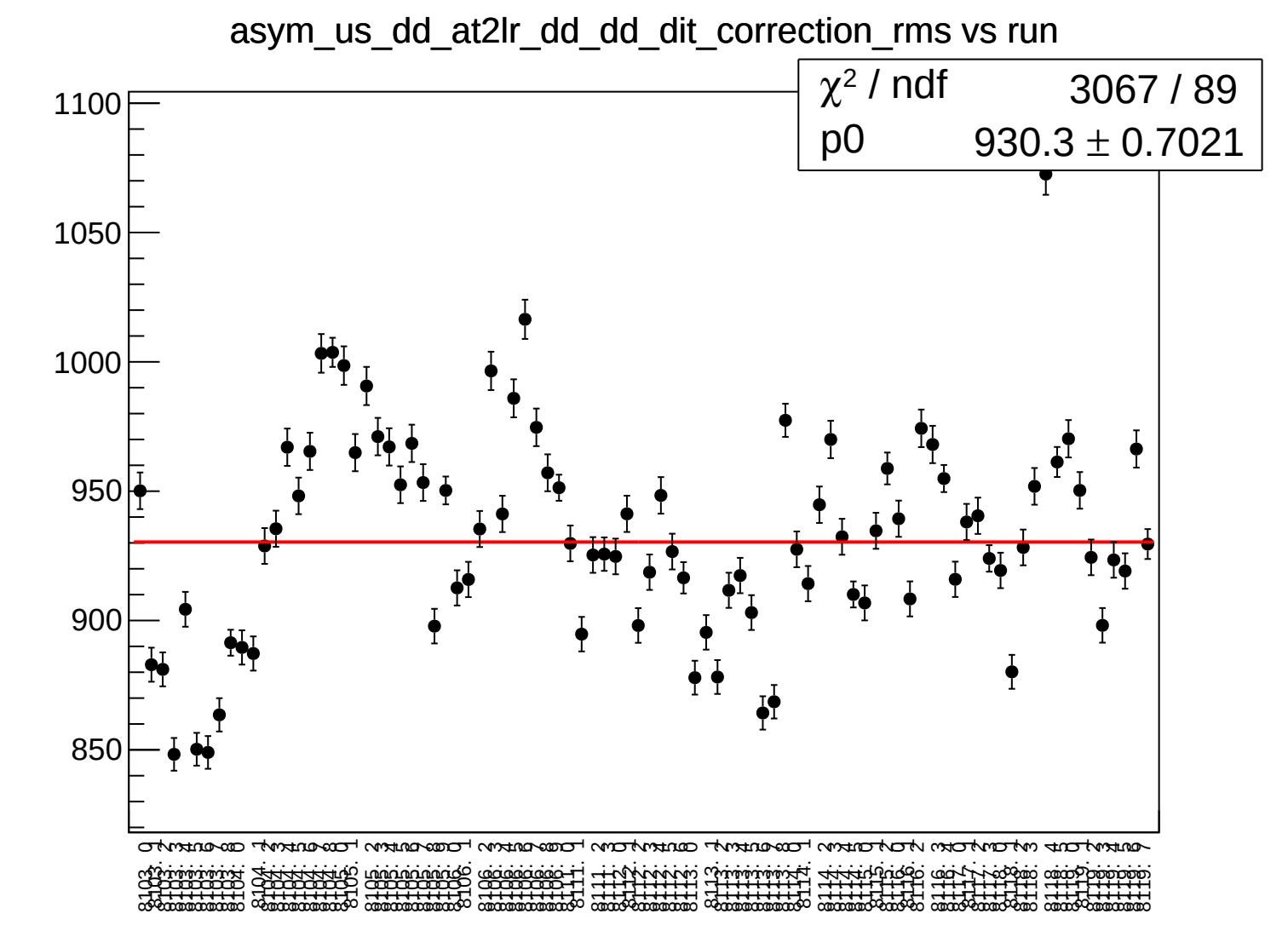

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.97 / 89
p0 1033 ± 1447
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −80.14
Std Dev 0
2
1
0
−1
−2
−3

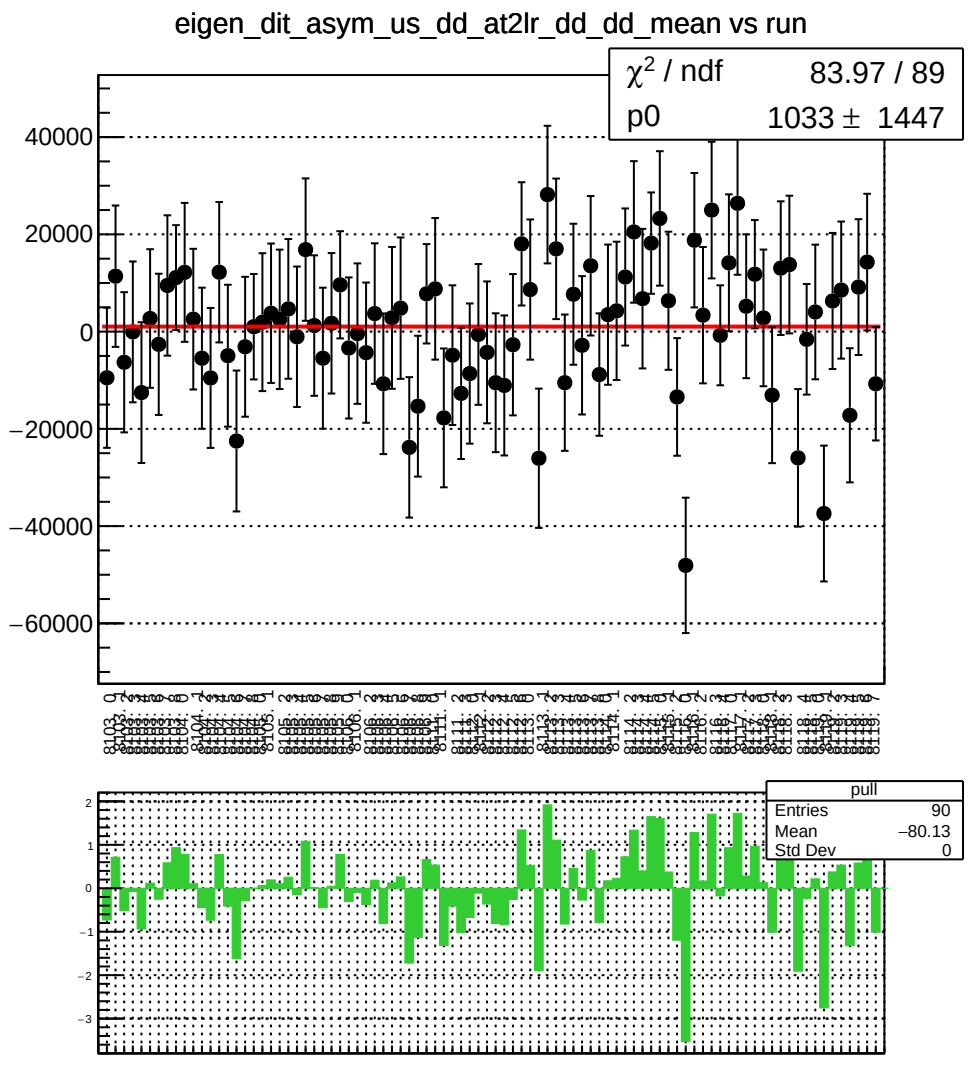

pull1D
Entries 90
Mean −0.01221
Std Dev 0.9658
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

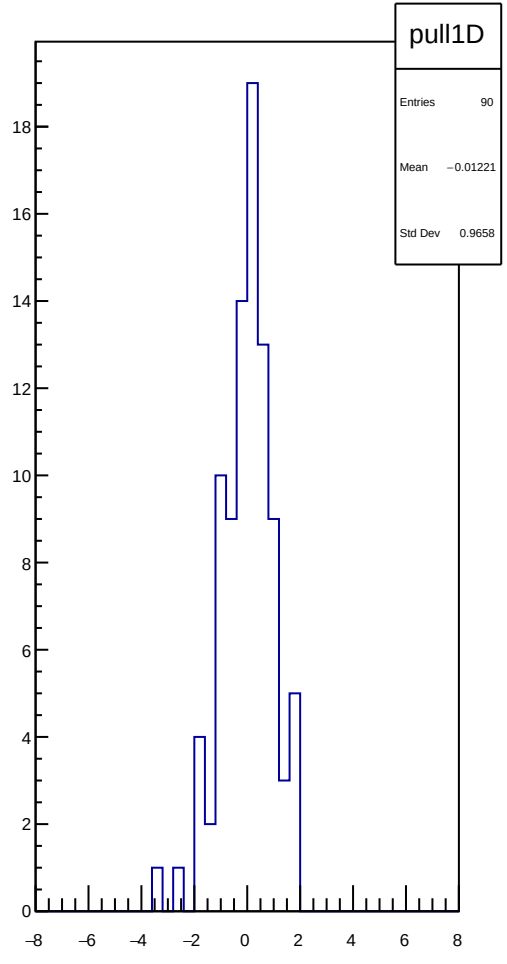

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 505.4 / 89
p0 1357 ± 1.023
1420
1400
1380
1360
1340
1320
1300

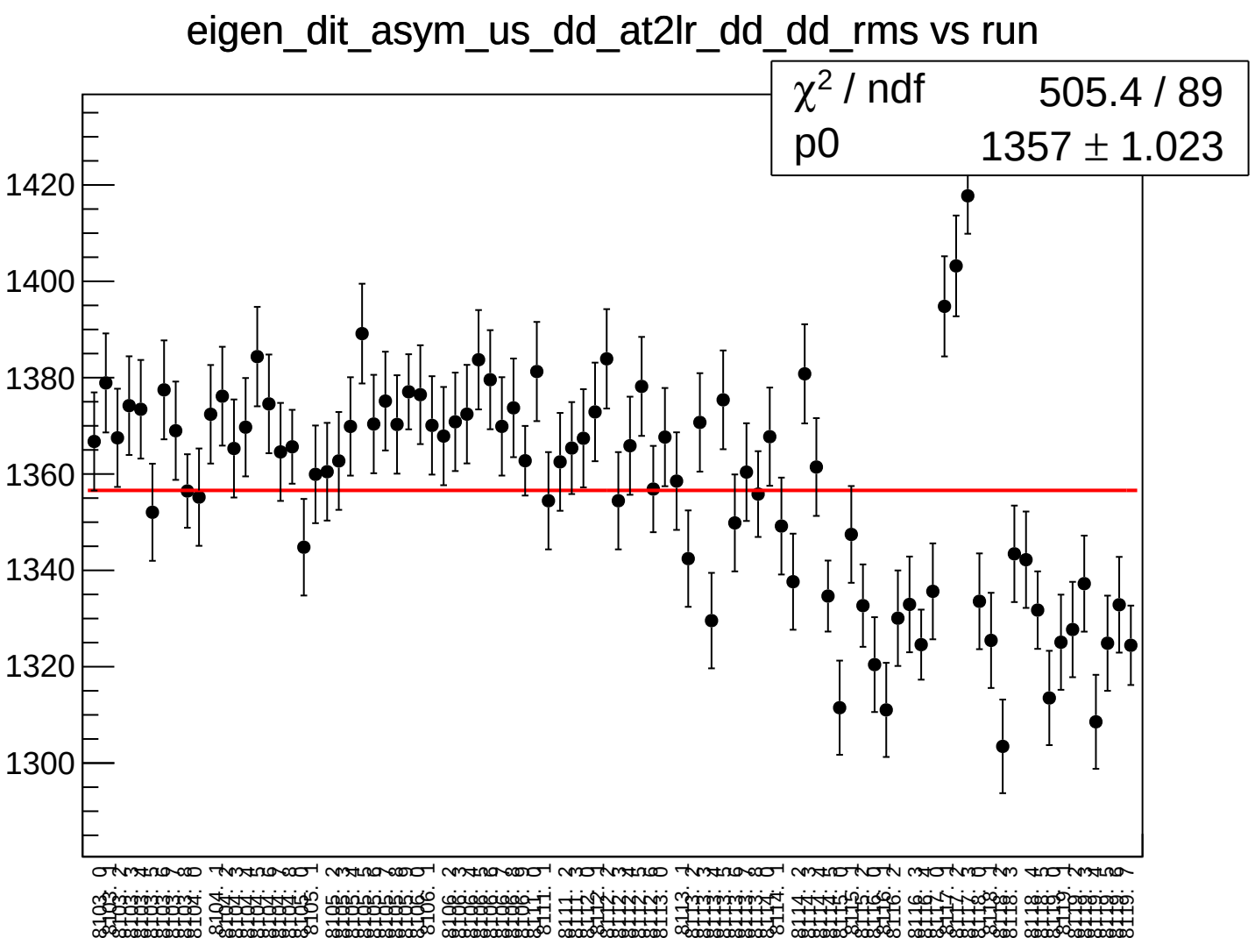

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 89.66 / 89
p0 1824 ± 993
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean 1173
Std Dev 0
2
1
0
−1
−2
−3

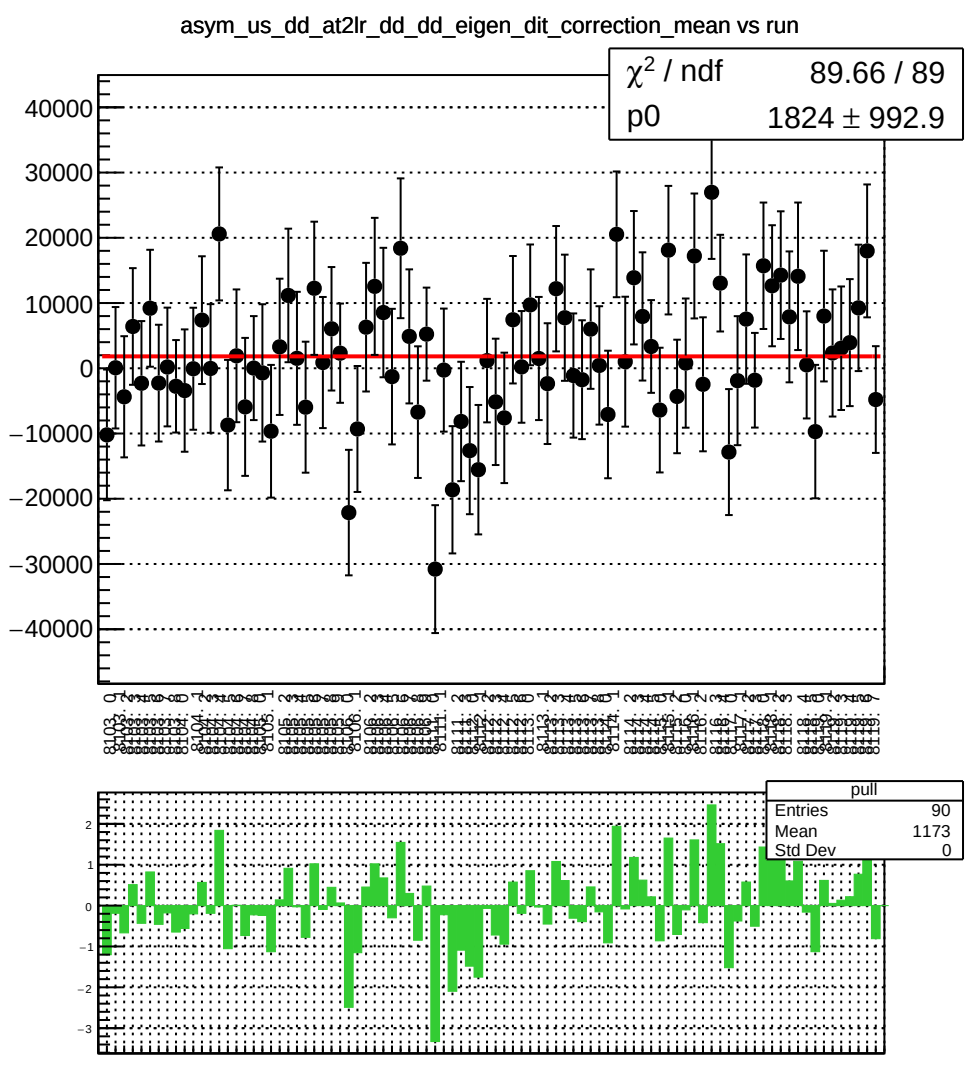

pull1D
Entries 90
Mean 0.005483
Std Dev 0.9981
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

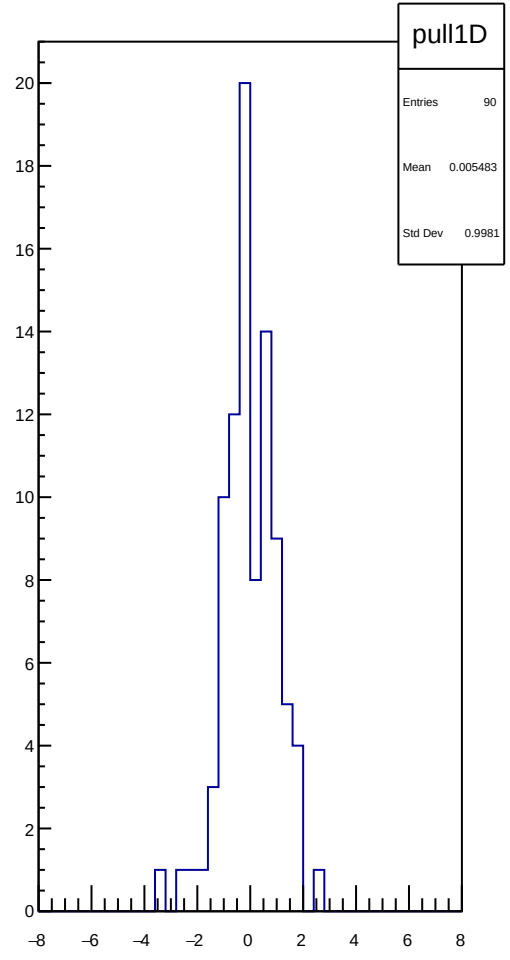

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3067 / 89
p0 930.3 ± 0.7021
1100
1050
1000
950
900
850

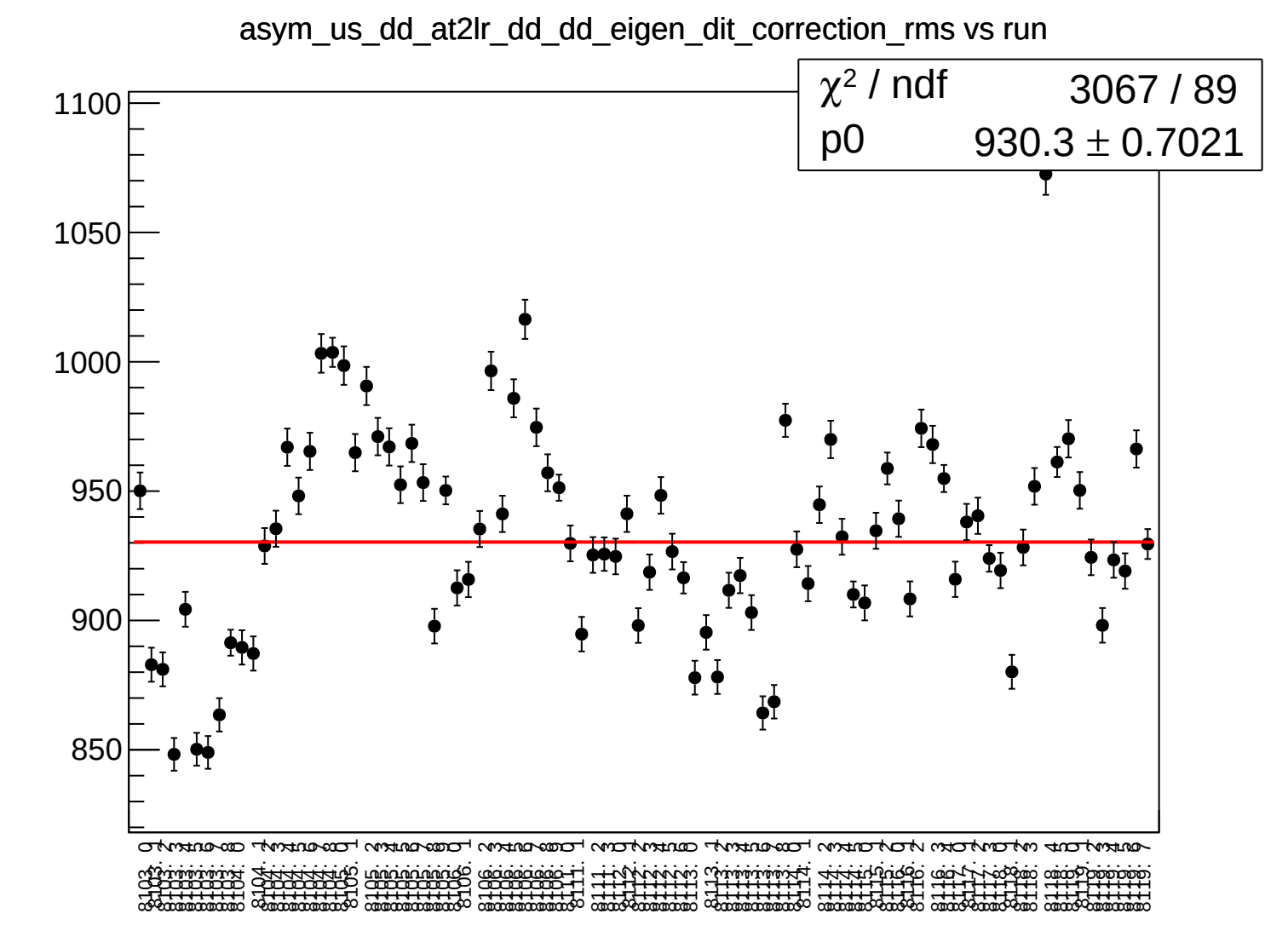

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.97 / 89
p0 1033 ± 1447
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −80.13
Std Dev 0
2
1
0
−1
−2
−3

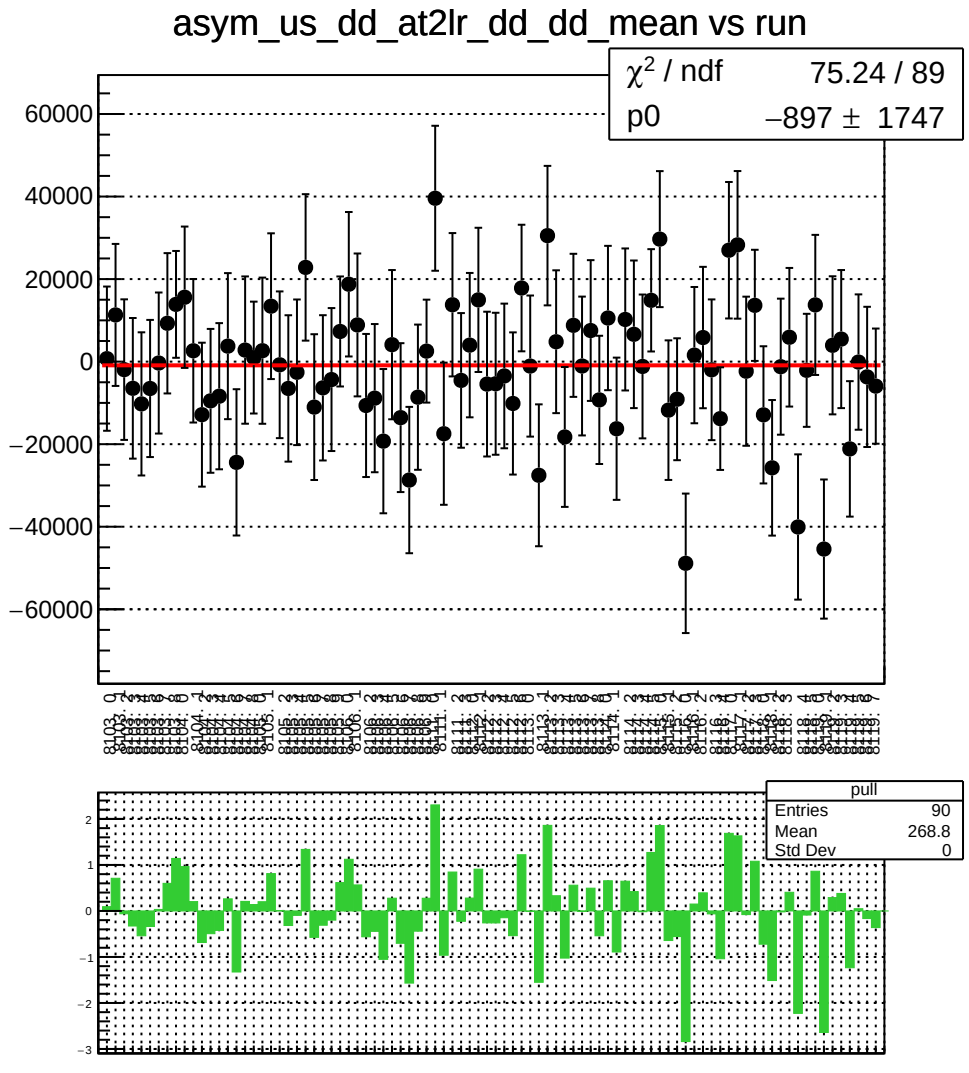

pull1D
Entries 90
Mean −0.01221
Std Dev 0.9658
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

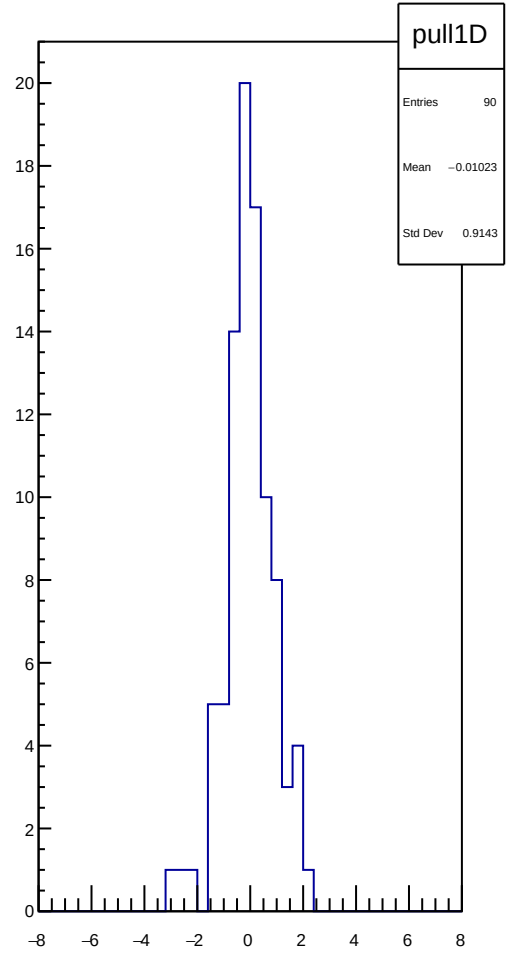

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 505.4 / 89
p0 1357 ± 1.023
1420
1400
1380
1360
1340
1320
1300

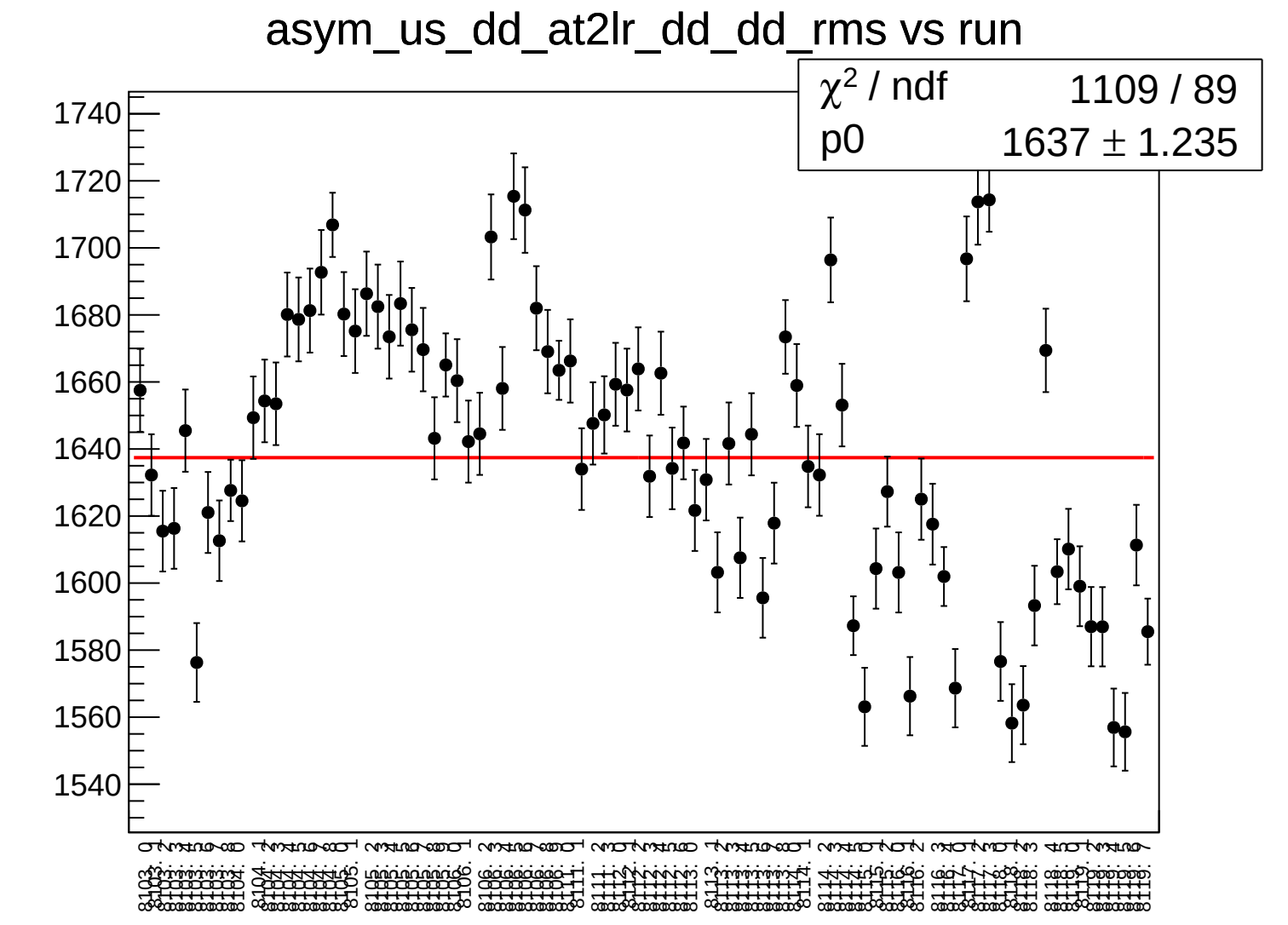

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.66 / 89
p0 1824 ± 992.9
pull
Entries 90
Mean 1173
Std Dev 0

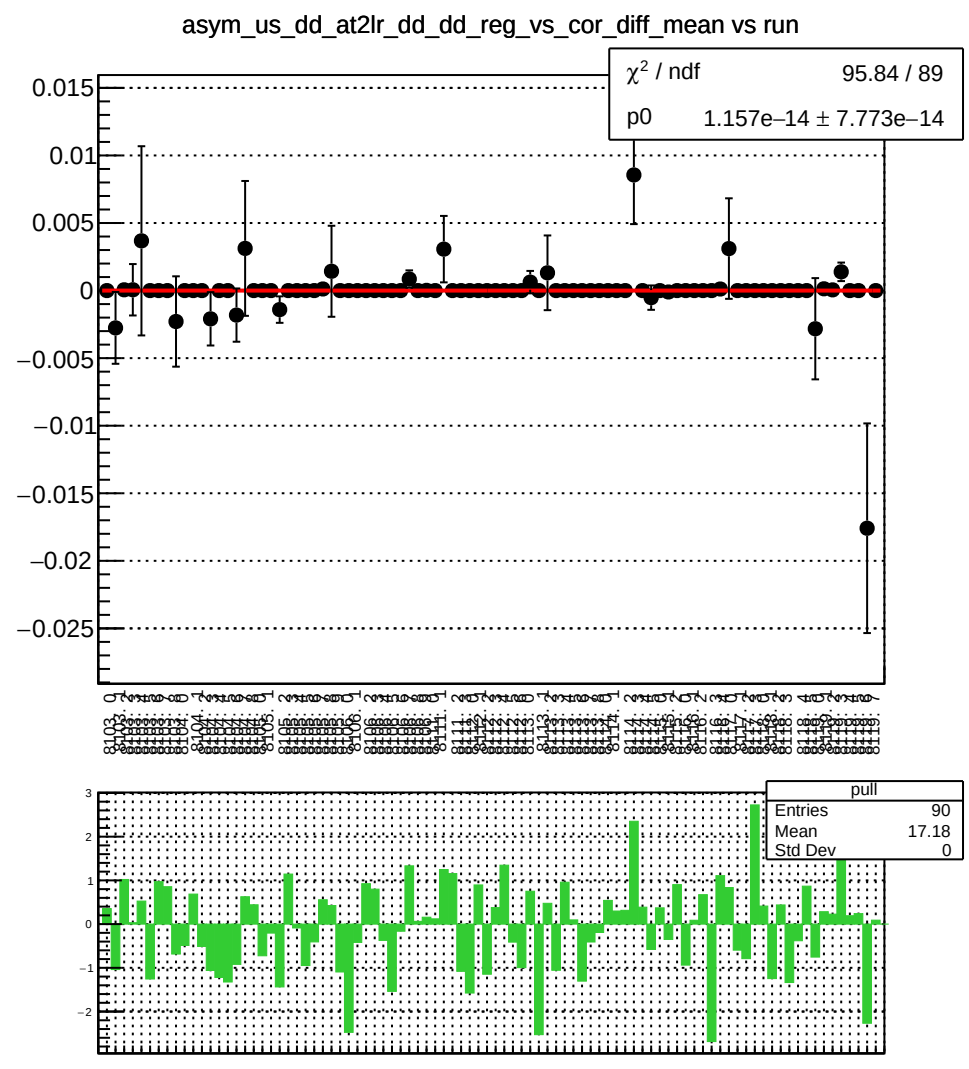

pull1D
Entries 90
Mean 0.005483
Std Dev 0.9981

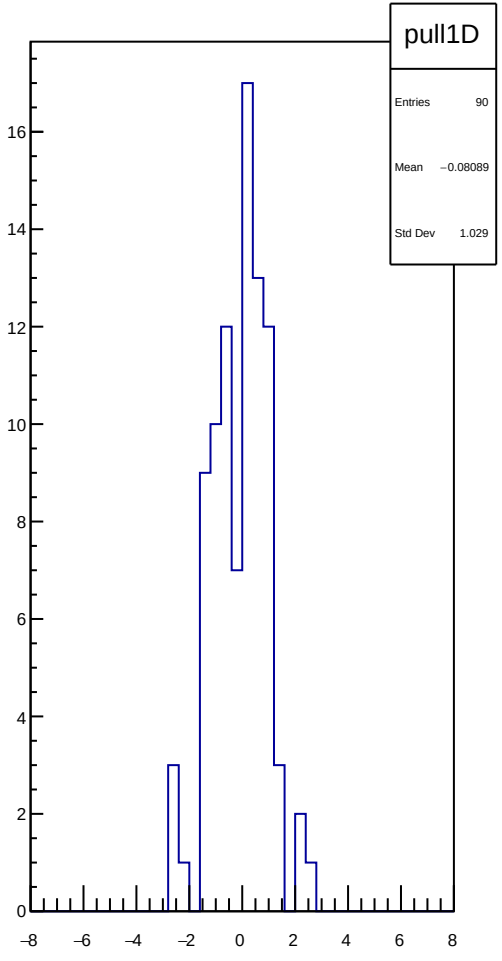

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3067 / 89
p0 930.3 ± 0.7021
1100
1050
1000
950
900
850

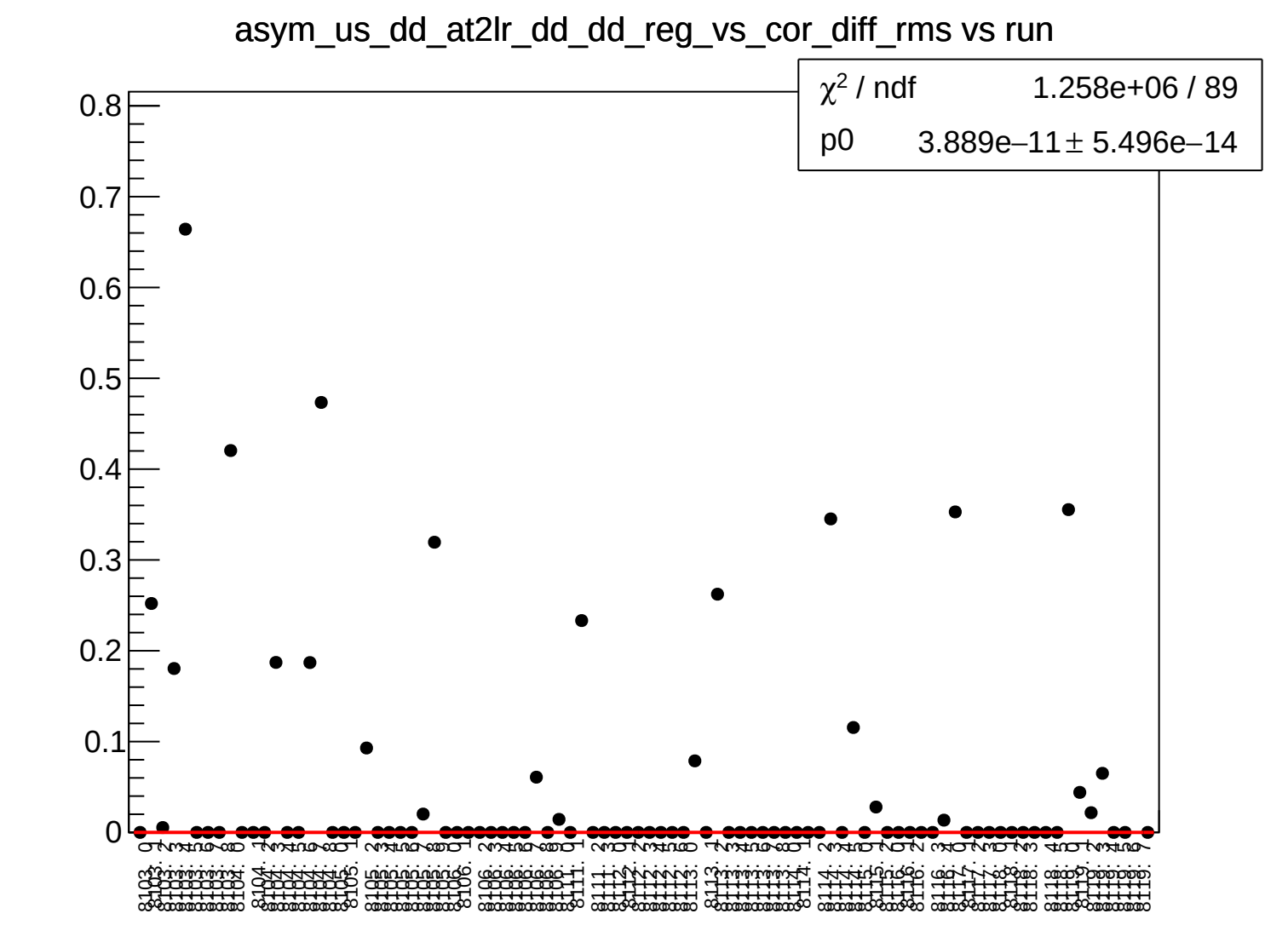

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 75.24 / 89
p0 −897 ± 1747
pull
Entries 90
Mean 268.8
Std Dev 0

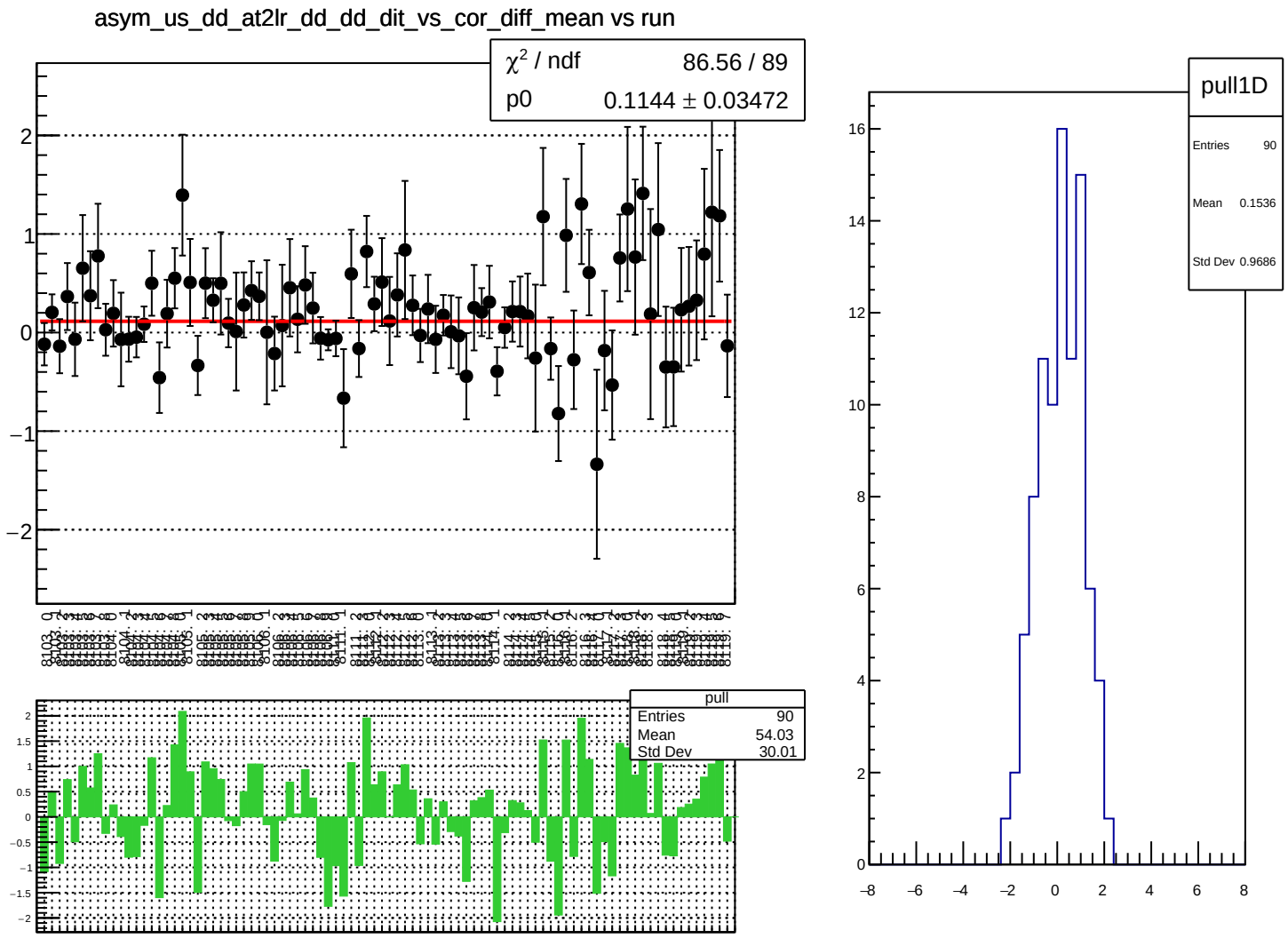

pull1D
Entries 90
Mean −0.01023
Std Dev 0.9143

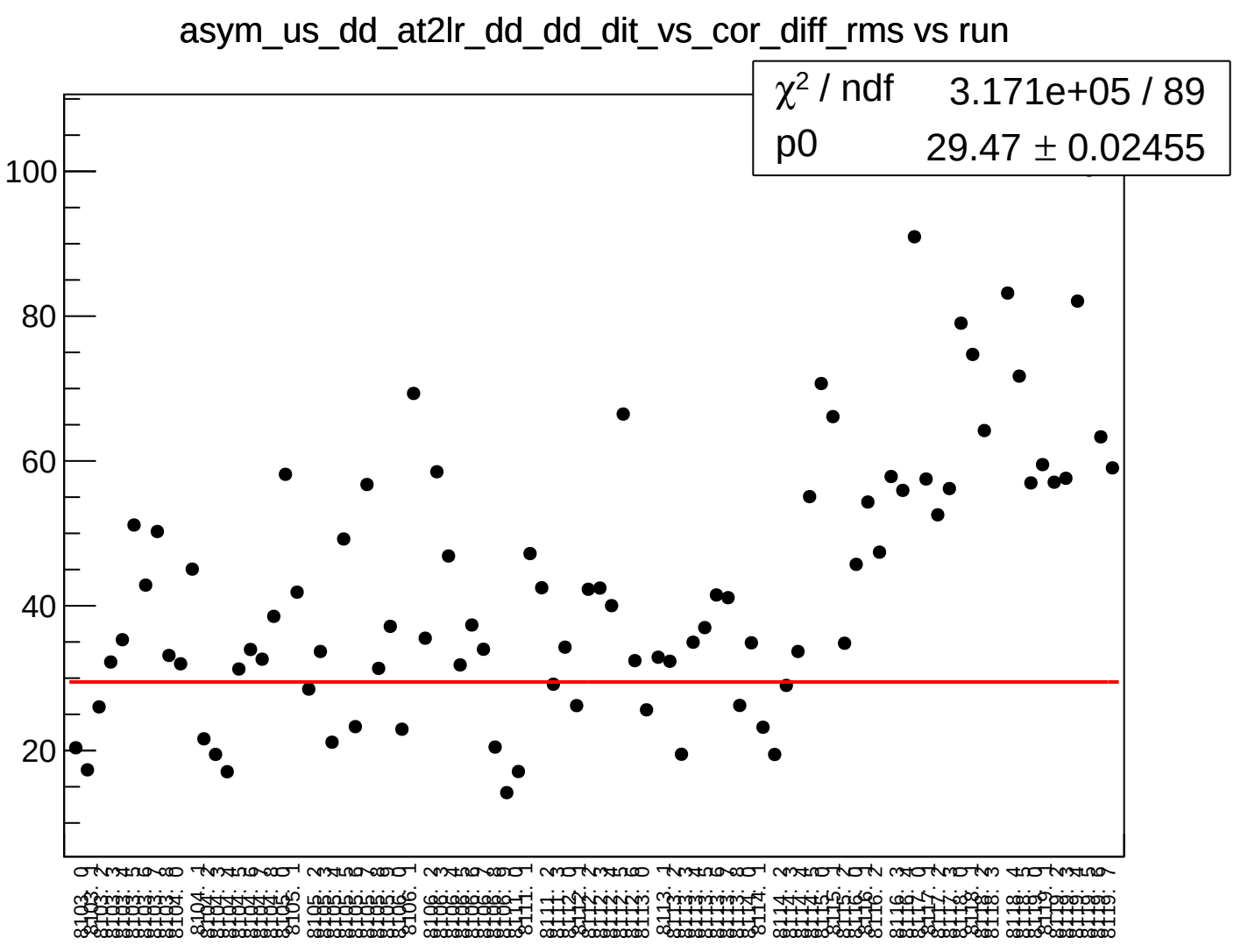

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1109 / 89
p0 1637 ± 1.235
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

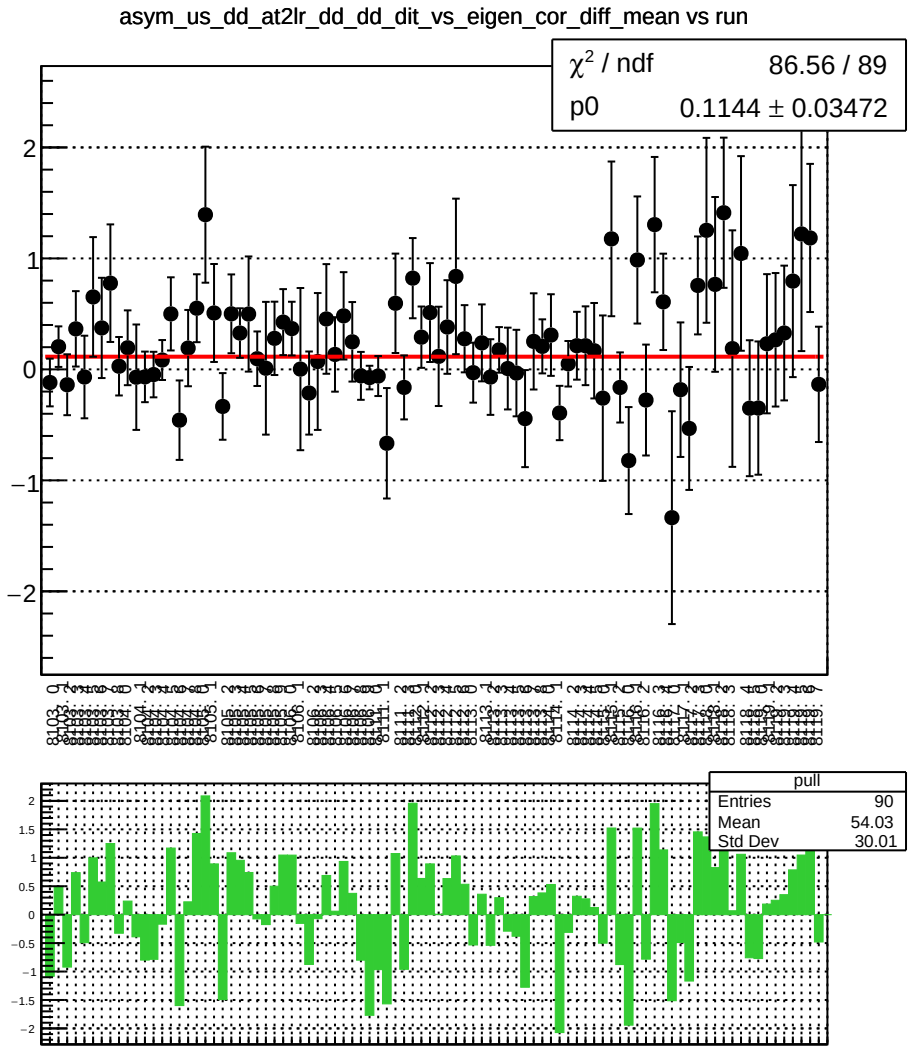

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.84 / 89
p0 1.157e−14 ± 7.773e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 90
Mean 17.18
Std Dev 0
3
2
1
0
−1
−2

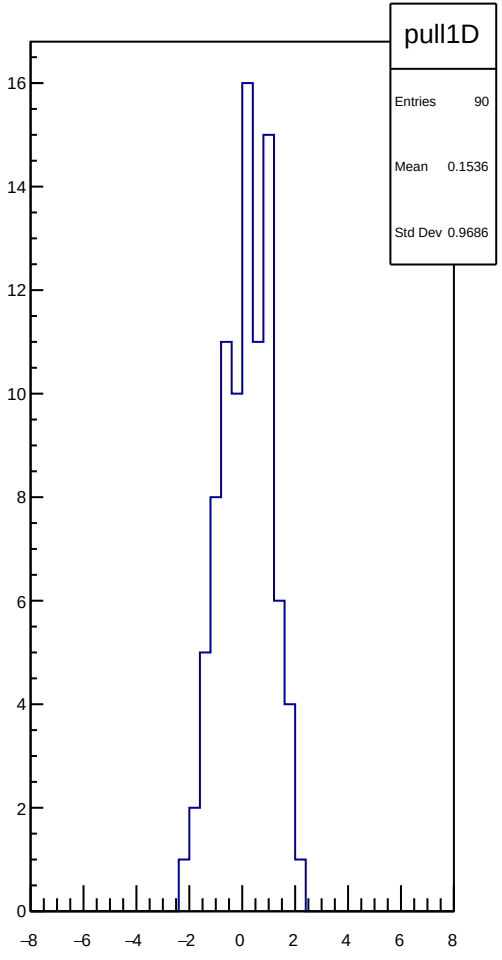

pull1D
Entries 90
Mean −0.08089
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

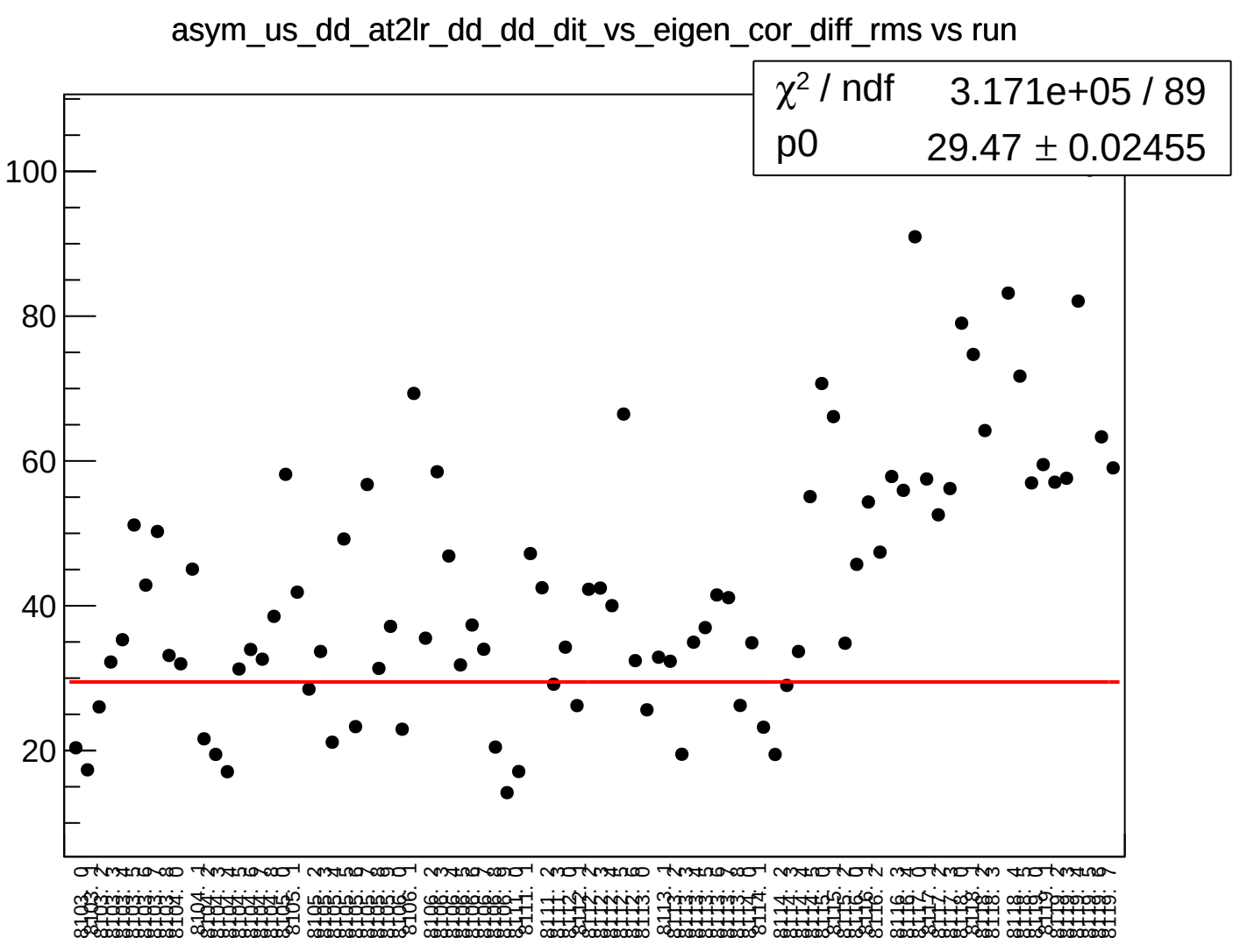

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.258e+06 / 89
p0 3.889e−11 ± 5.496e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

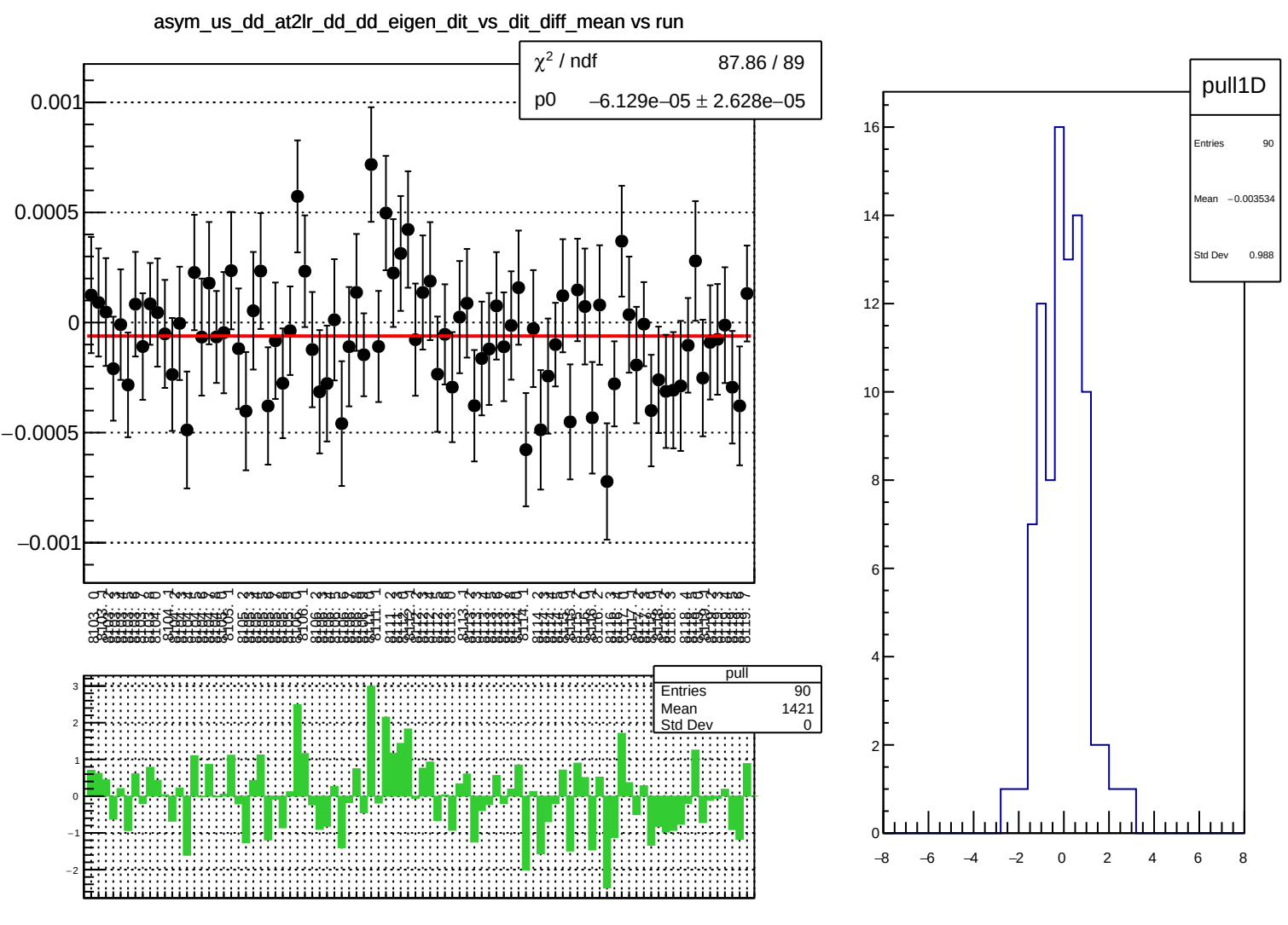

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.56 / 89
p0 0.1144 ± 0.03472
pull
Entries 90
Mean 54.03
Std Dev 30.01
pull1D
Entries 90
Mean 0.1536
Std Dev 0.9686

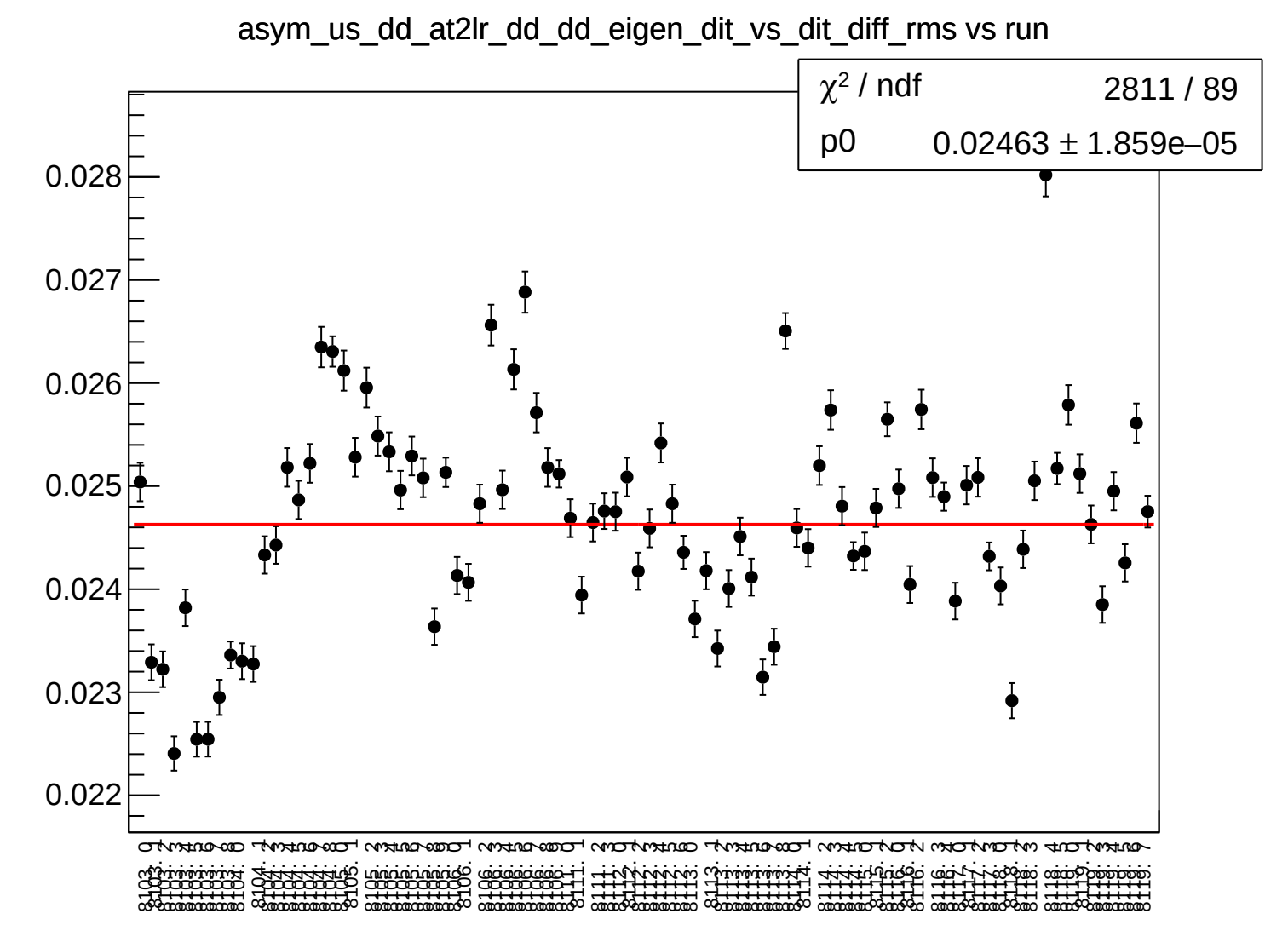

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.171e+05 / 89
p0 29.47 ± 0.02455
100
80
60
40
20

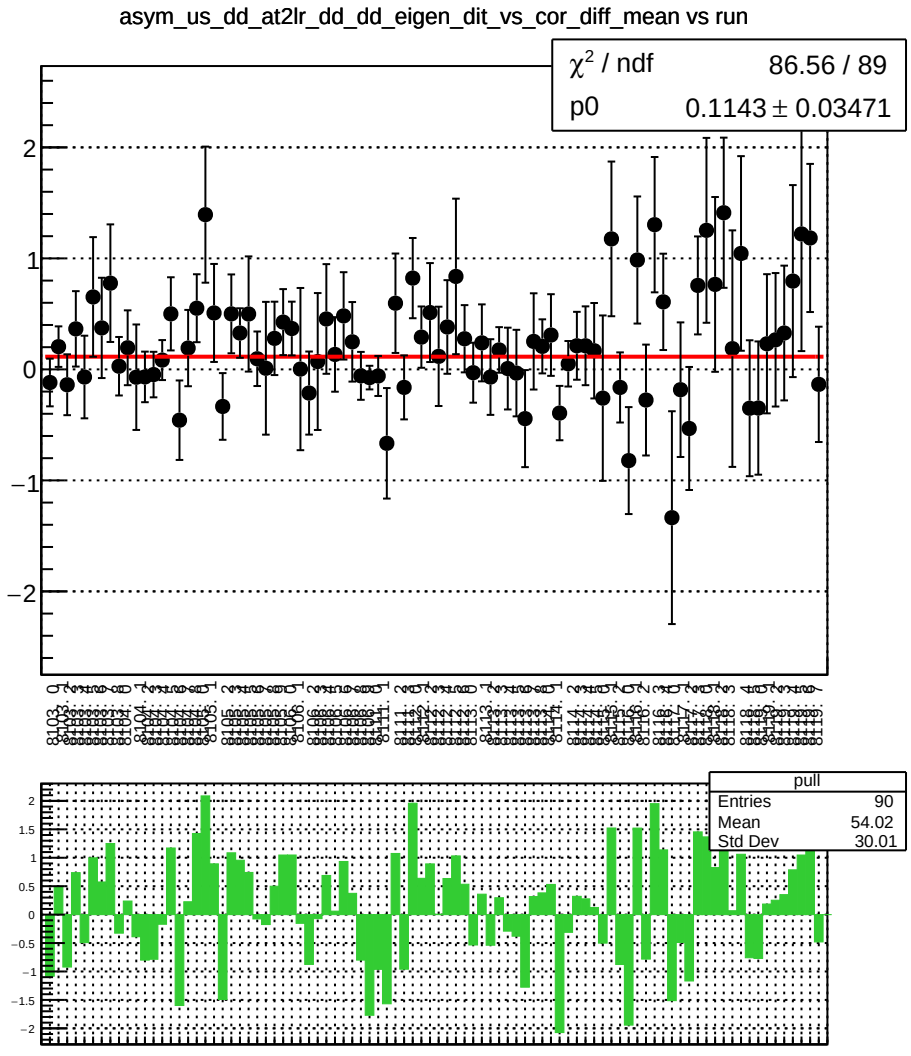

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.56 / 89
p0 0.1144 ± 0.03472
pull
Entries 90
Mean 54.03
Std Dev 30.01

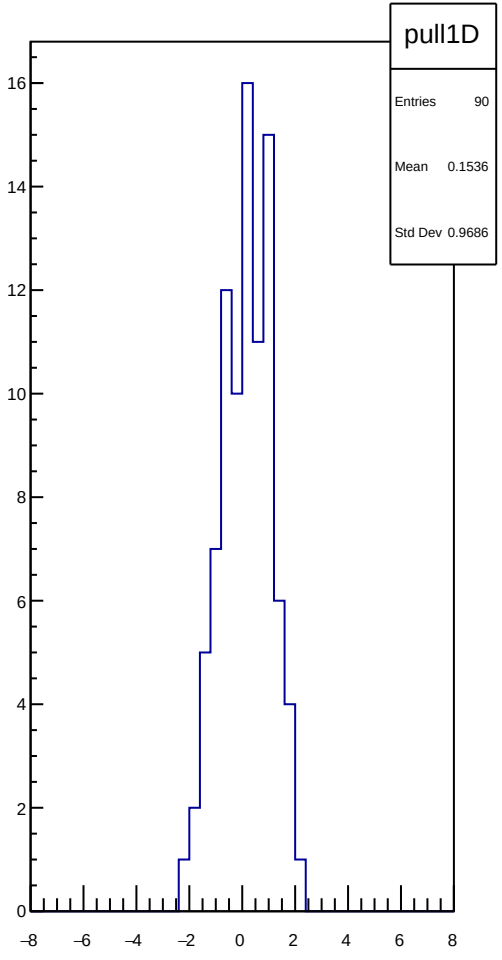

pull1D
Entries 90
Mean 0.1536
Std Dev 0.9686

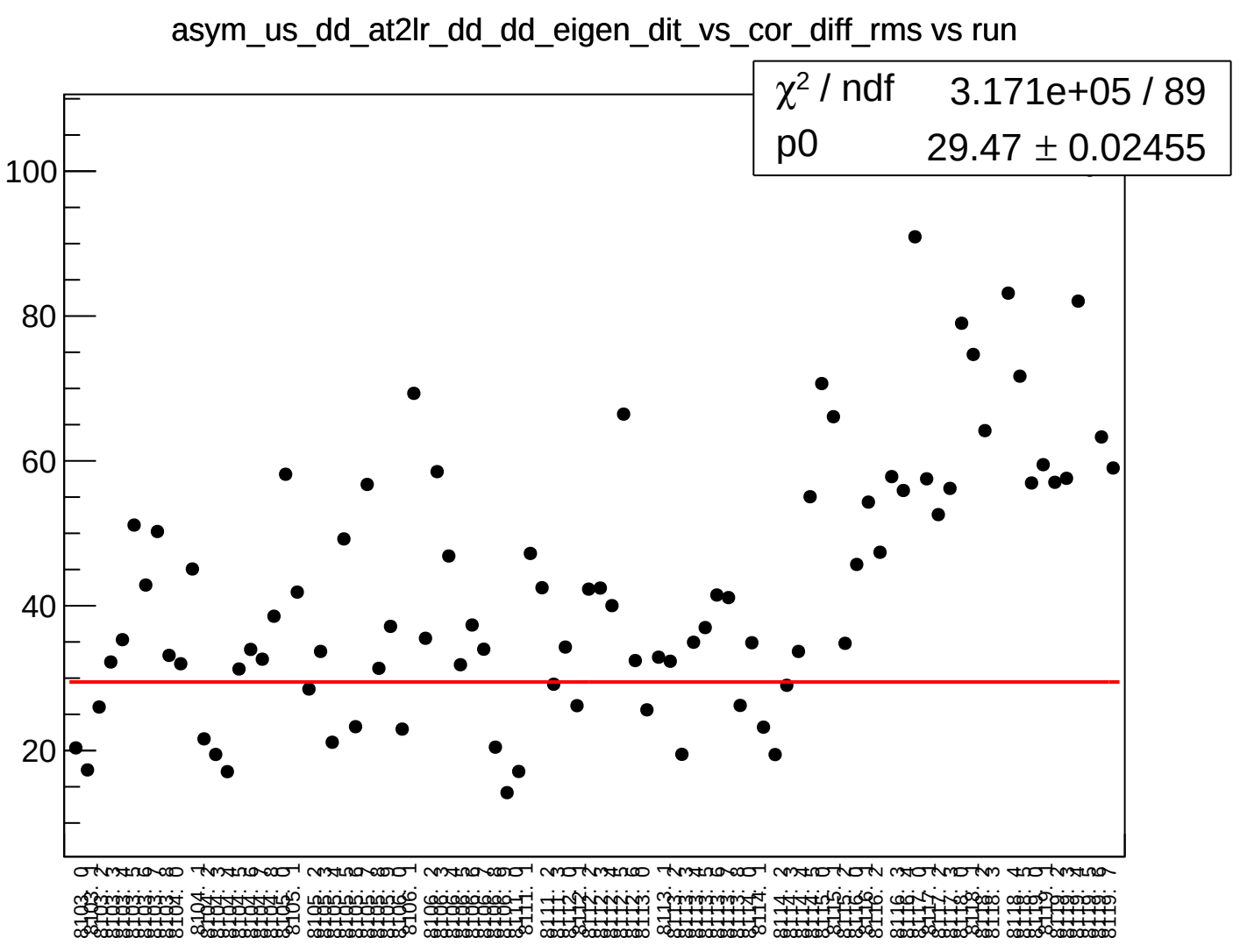

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.171e+05 / 89
p0 29.47 ± 0.02455
100
80
60
40
20

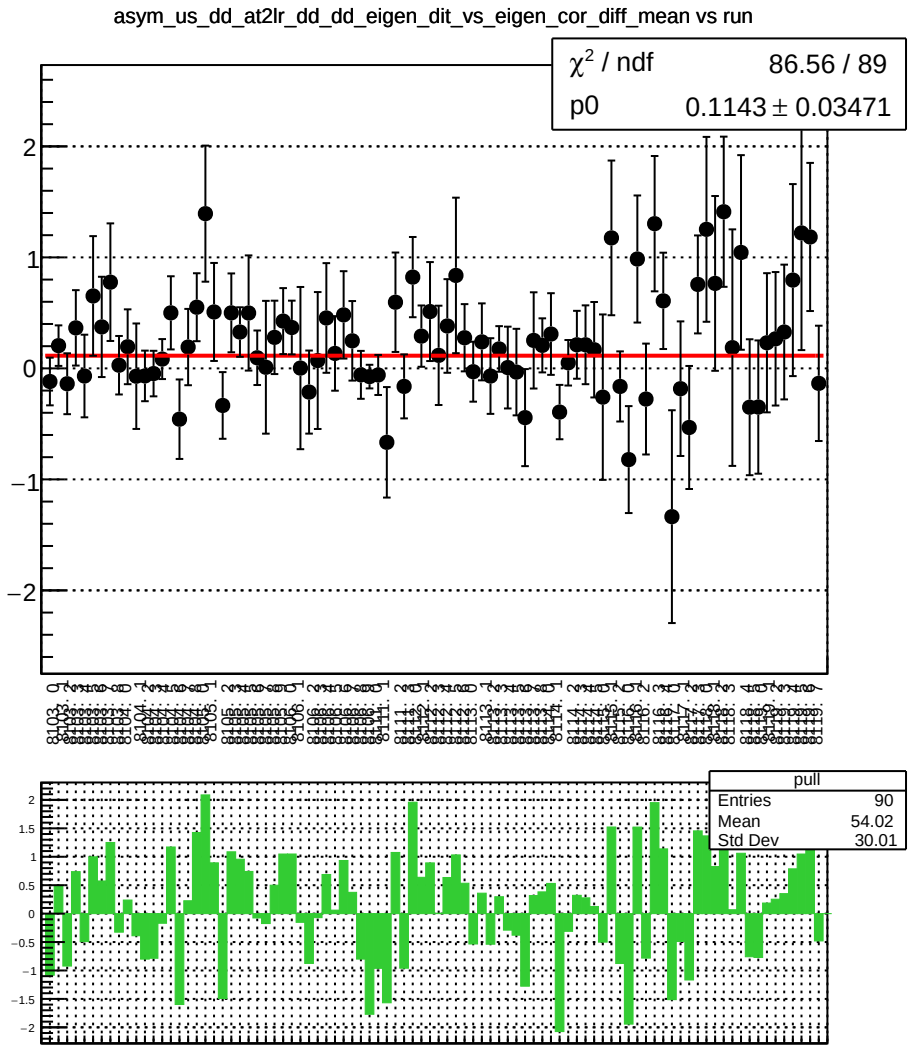

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.86 / 89
p0 −6.129e−05 ± 2.628e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 1421
Std Dev 0
pull1D
Entries 90
Mean −0.003534
Std Dev 0.988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

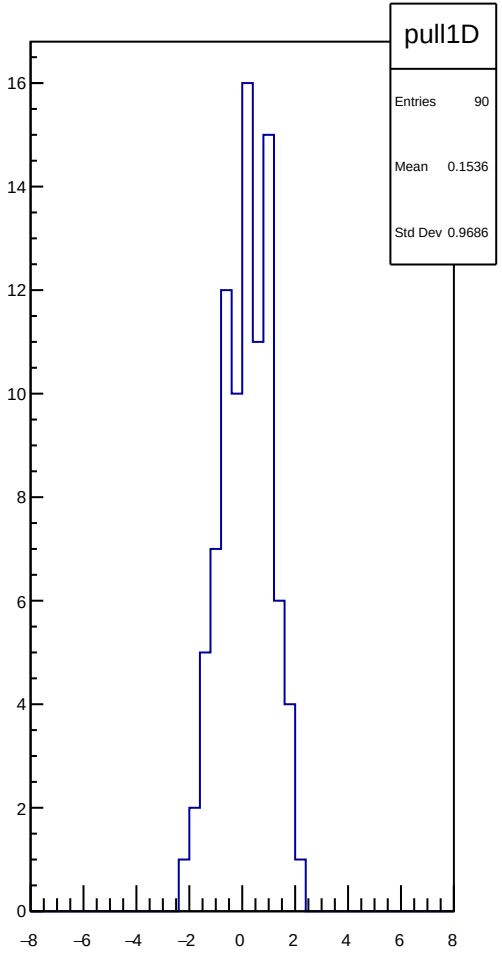

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2811 / 89
p0 0.02463 ± 1.859e−05
0.028
0.027
0.026
0.025
0.024
0.023
0.022

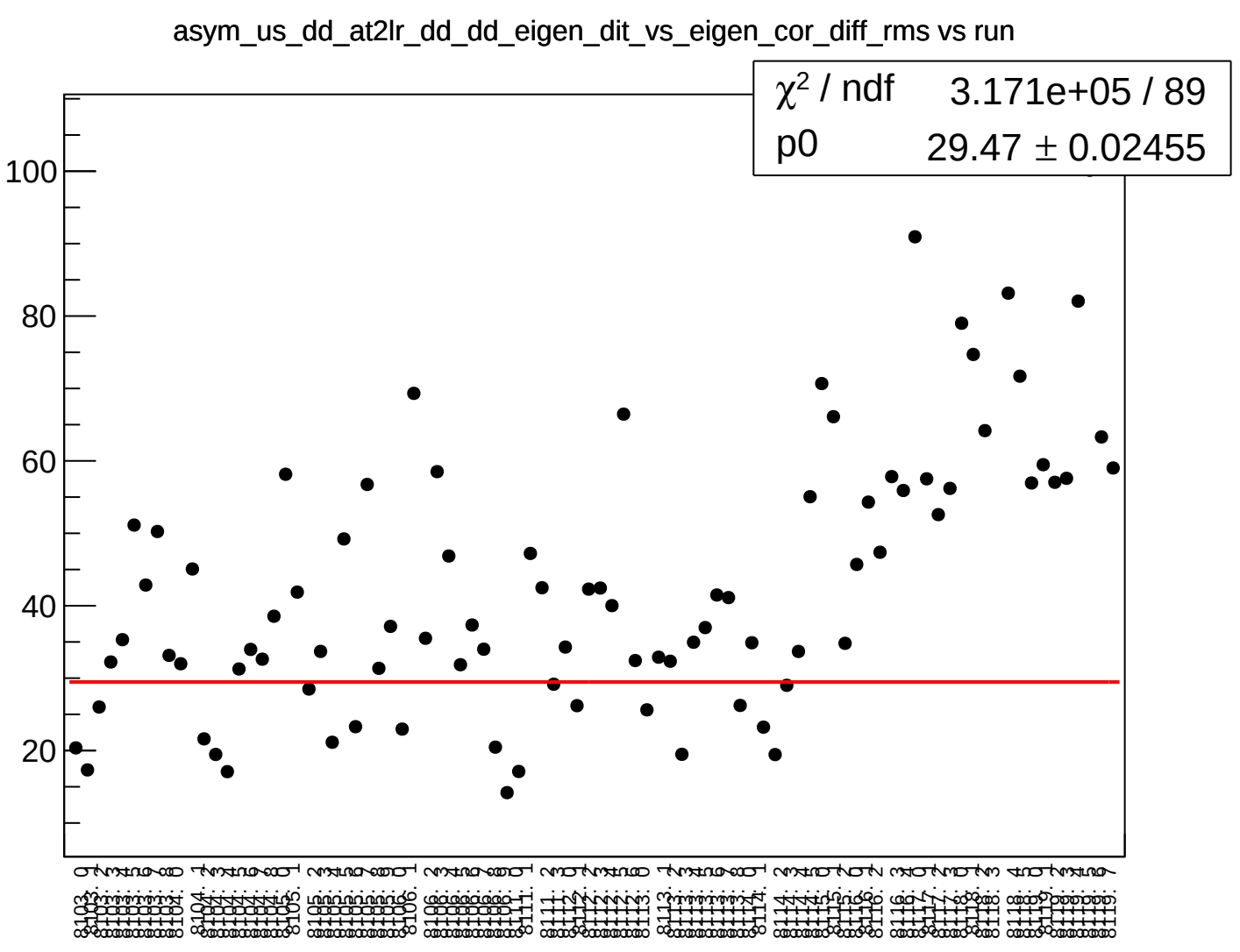

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.56 / 89
p0 0.1143 ± 0.03471
pull
Entries 90
Mean 54.02
Std Dev 30.01

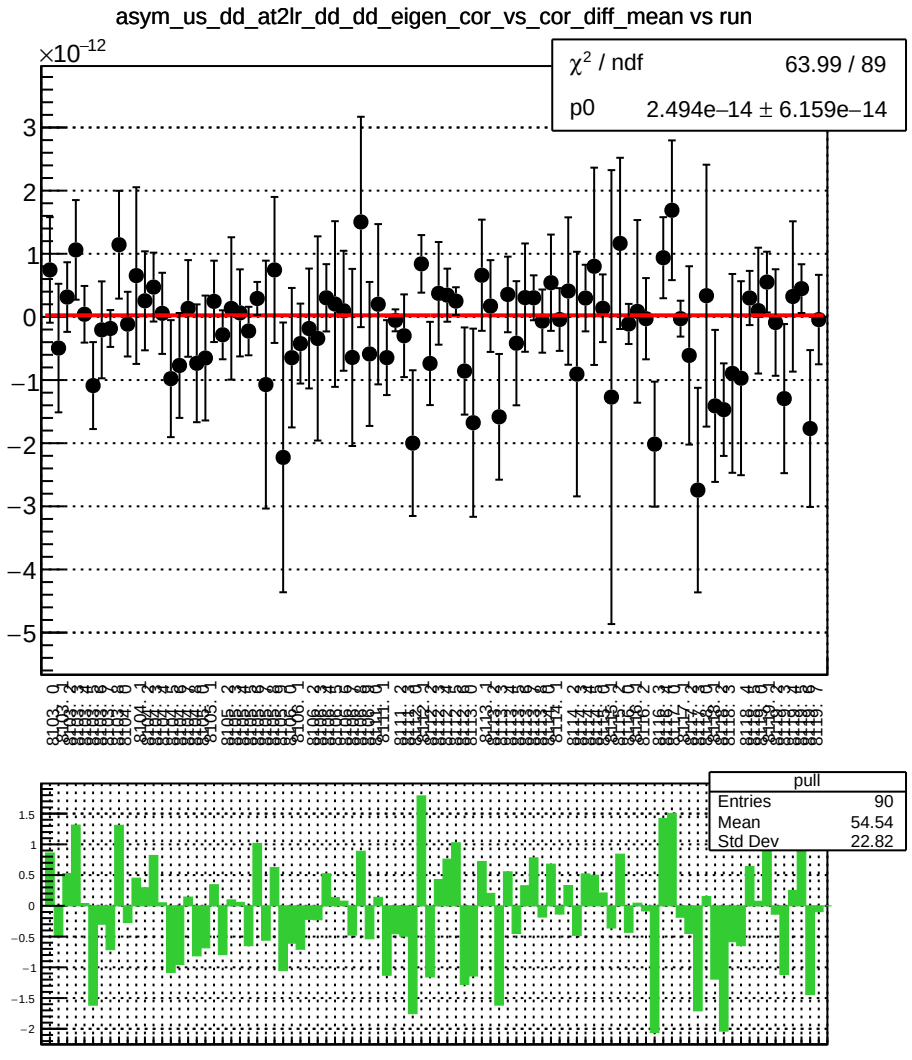

pull1D
Entries 90
Mean 0.1536
Std Dev 0.9686

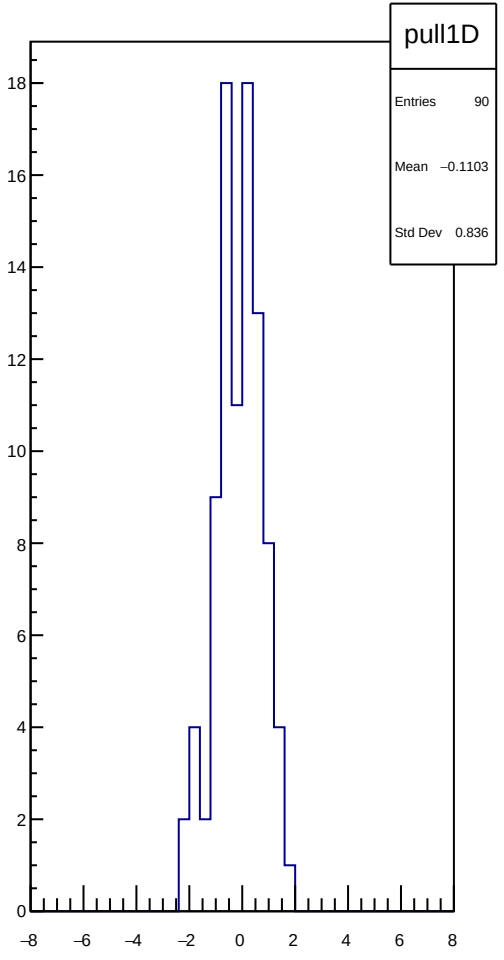

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.171e+05 / 89
p0 29.47 ± 0.02455
100
80
60
40
20

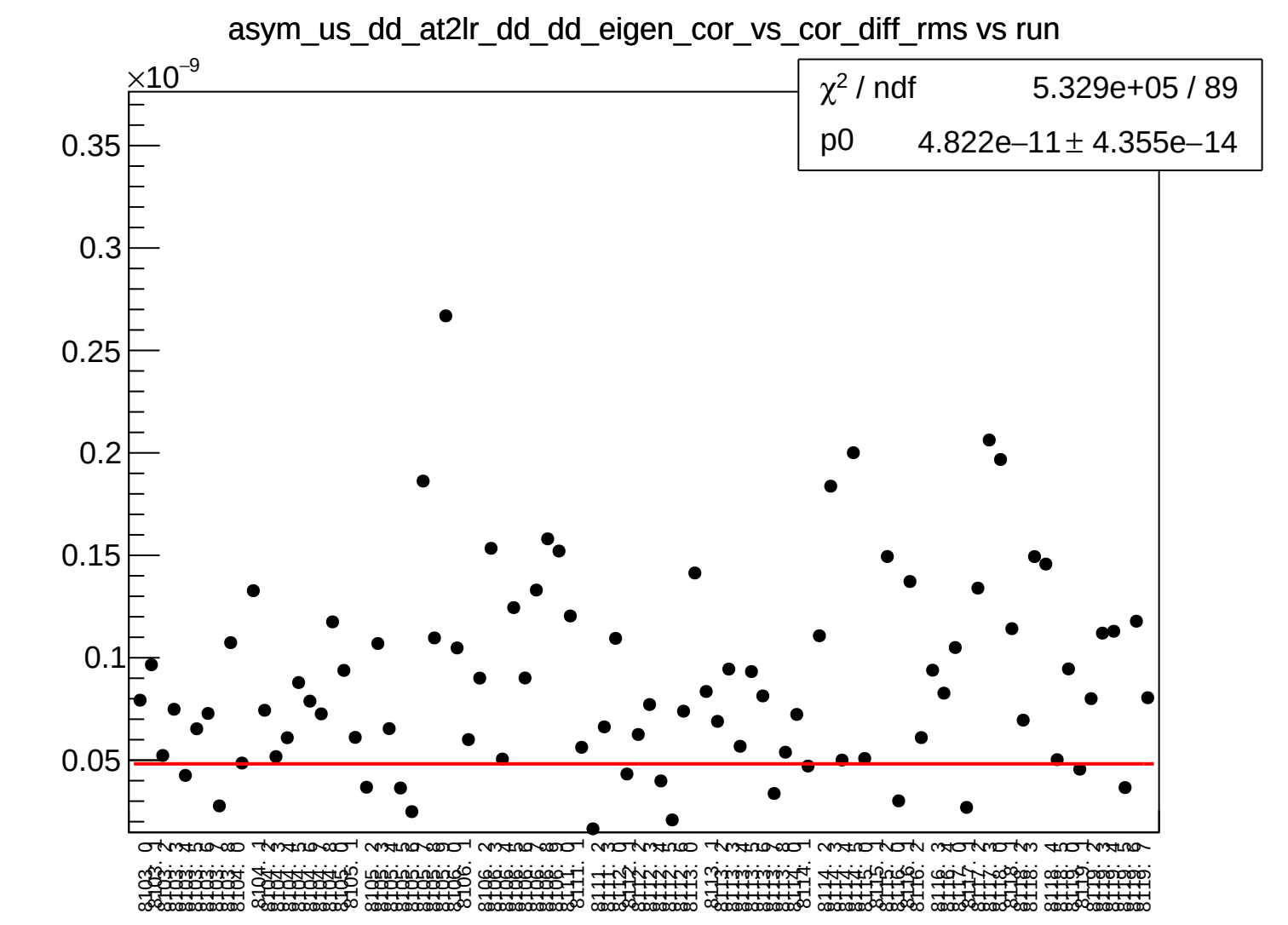

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 86.56 / 89
p0 0.1143 ± 0.03471
pull
Entries 90
Mean 54.02
Std Dev 30.01

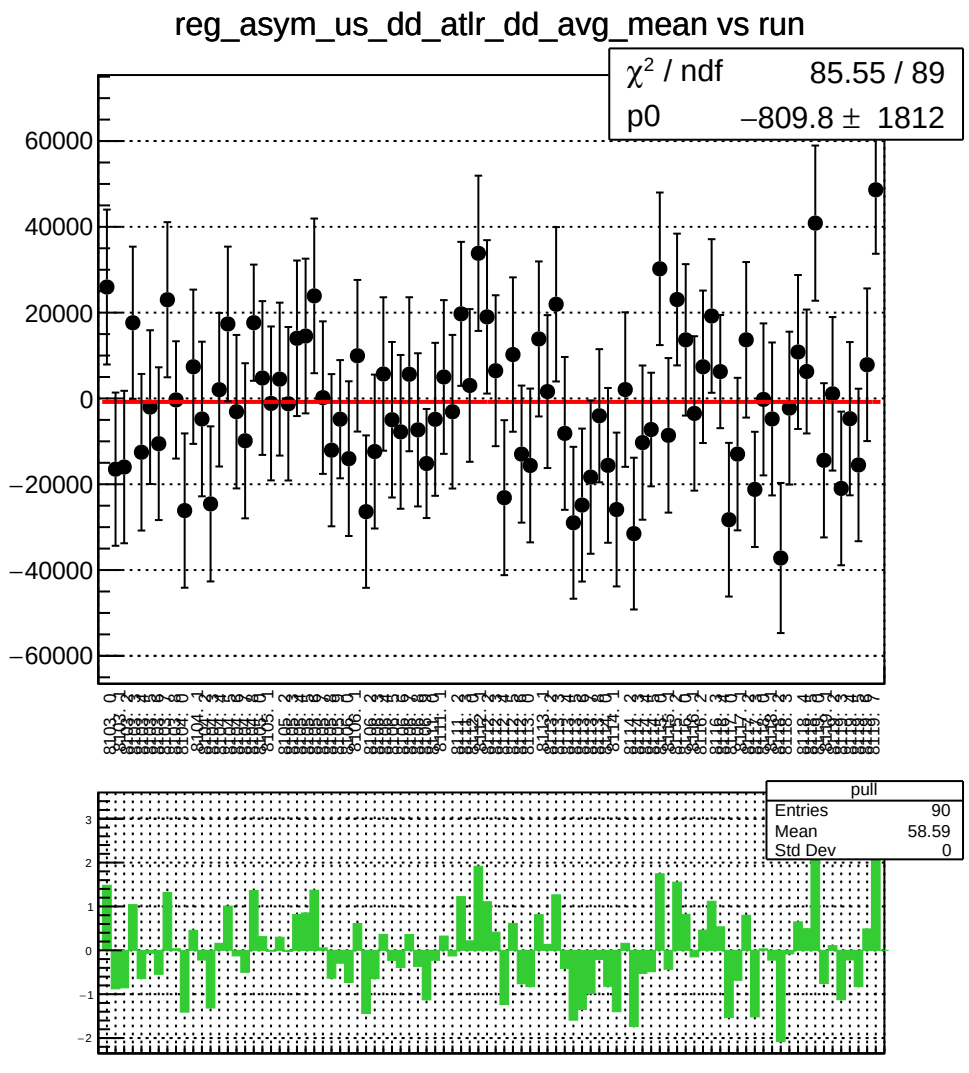

pull1D
Entries 90
Mean 0.1536
Std Dev 0.9686

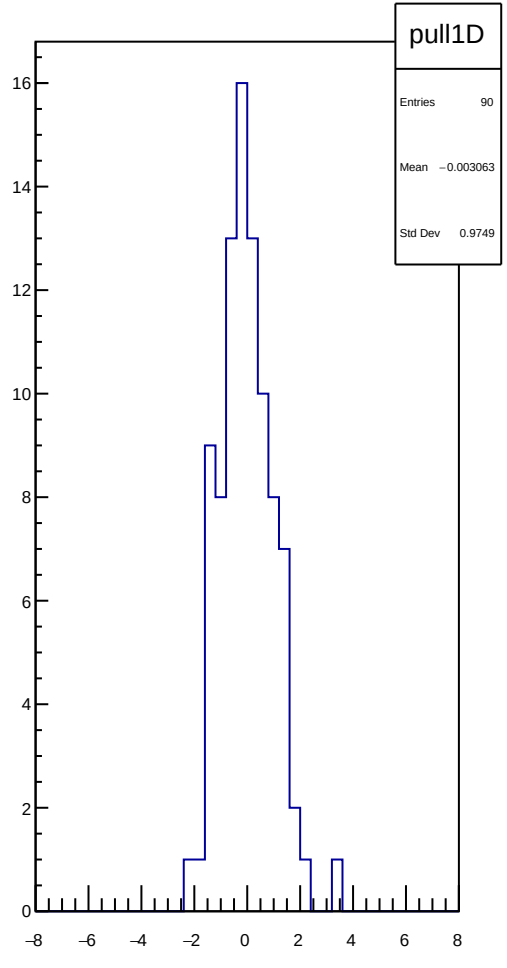

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.171e+05 / 89
p0 29.47 ± 0.02455
100
80
60
40
20

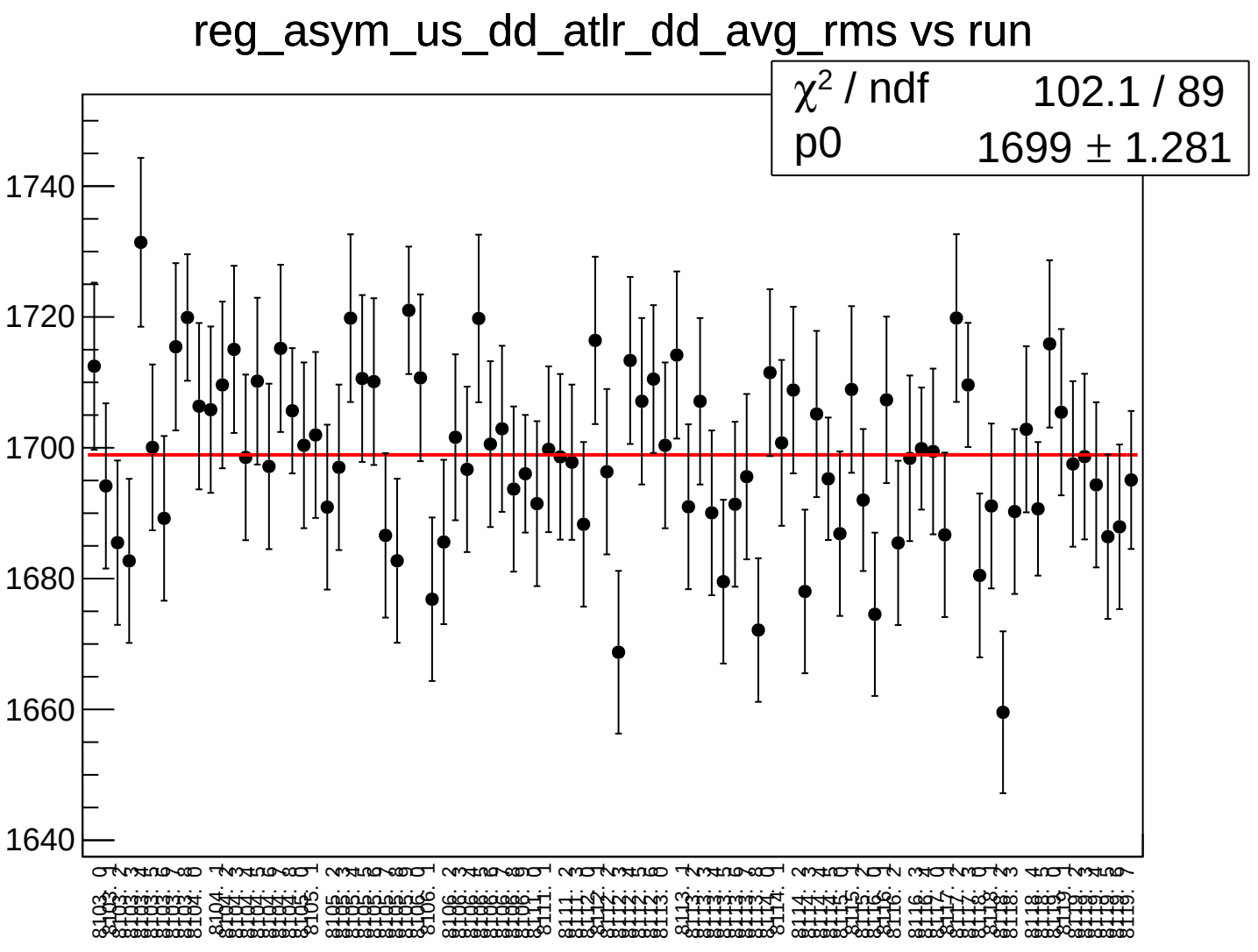

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.99 / 89
p0 2.494e−14 ± 6.159e−14
pull
Entries 90
Mean 54.54
Std Dev 22.82

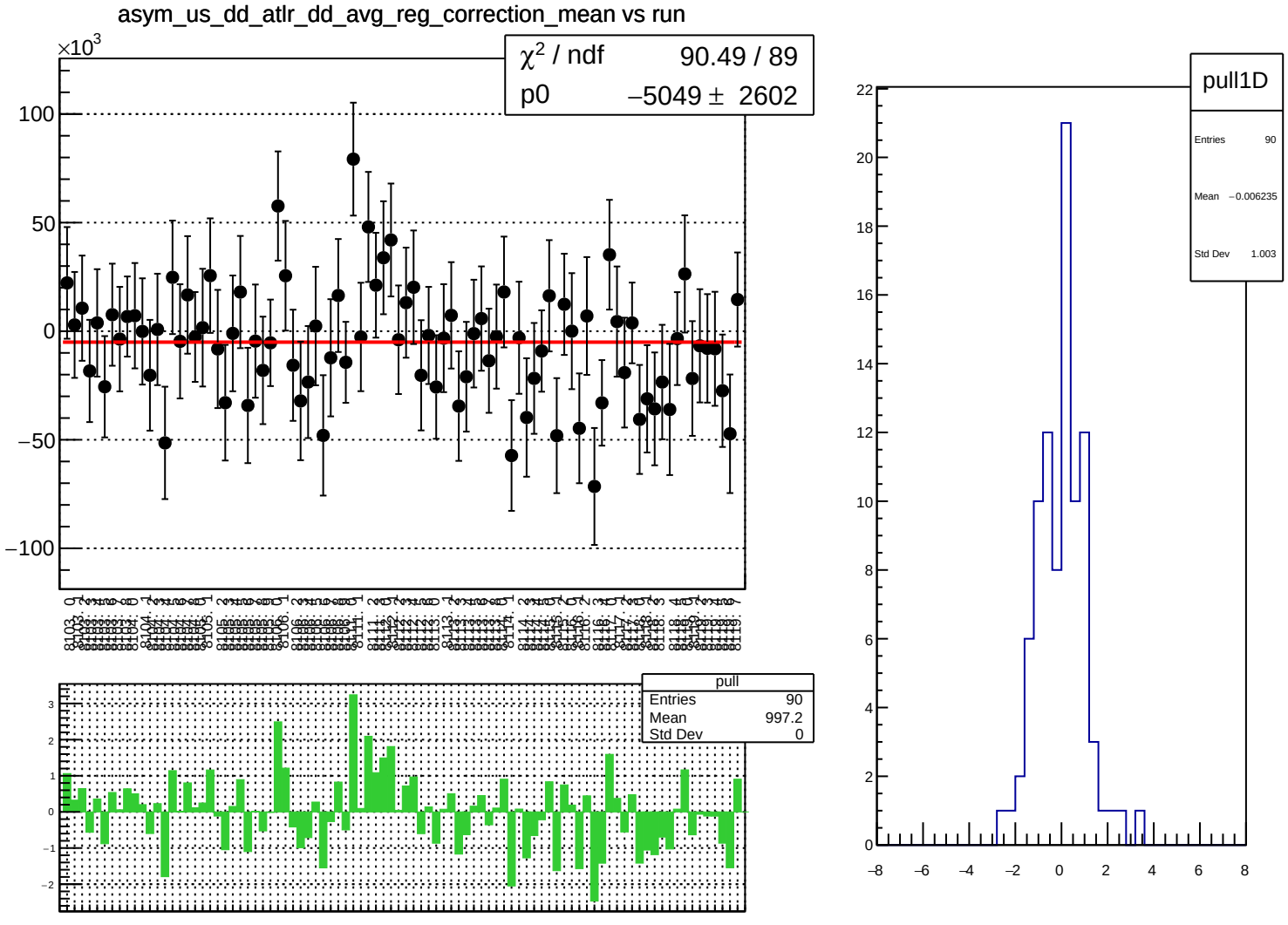

pull1D
Entries 90
Mean −0.1103
Std Dev 0.836

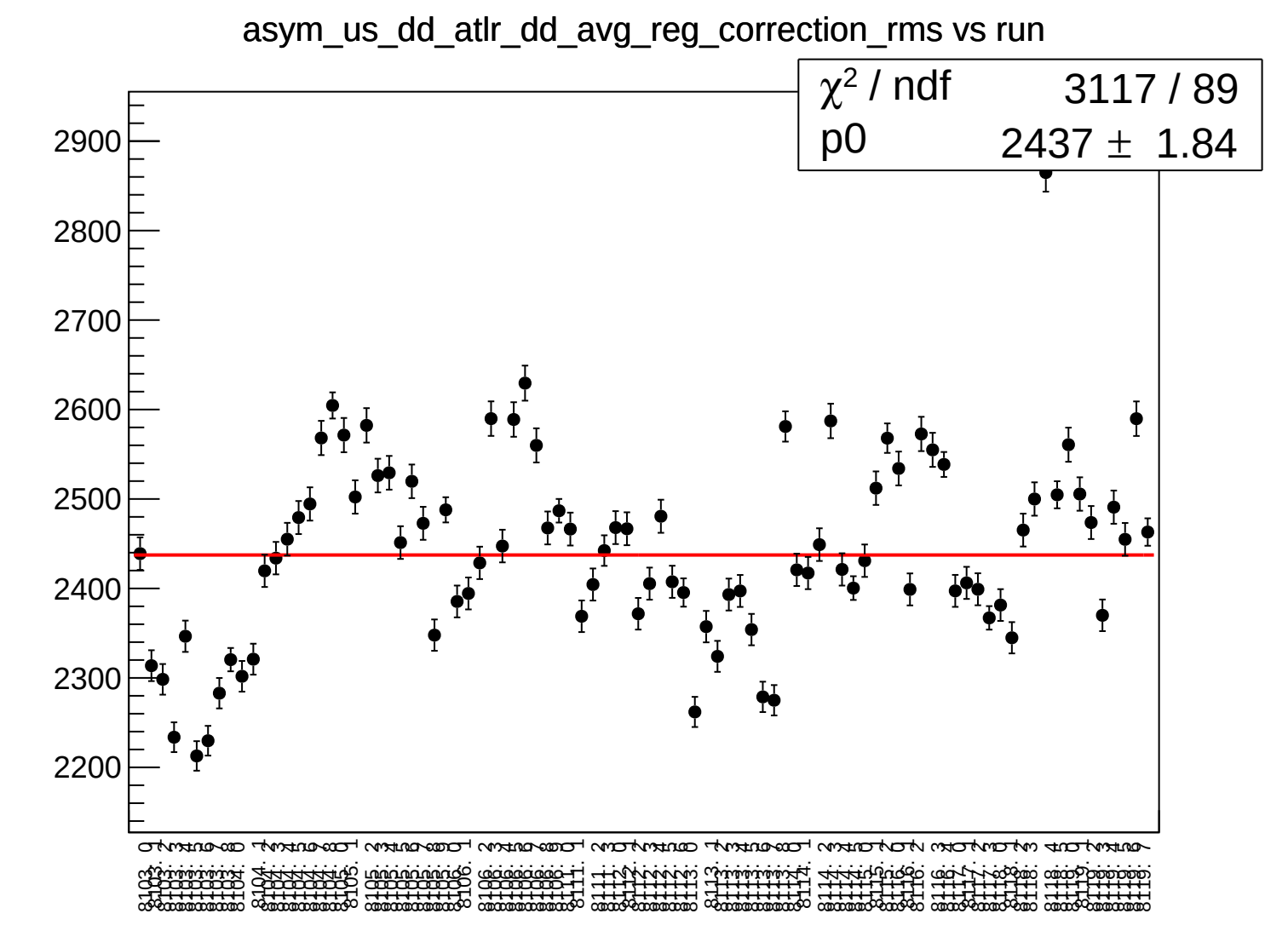

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.329e+05 / 89
p0 4.822e−11 ± 4.355e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

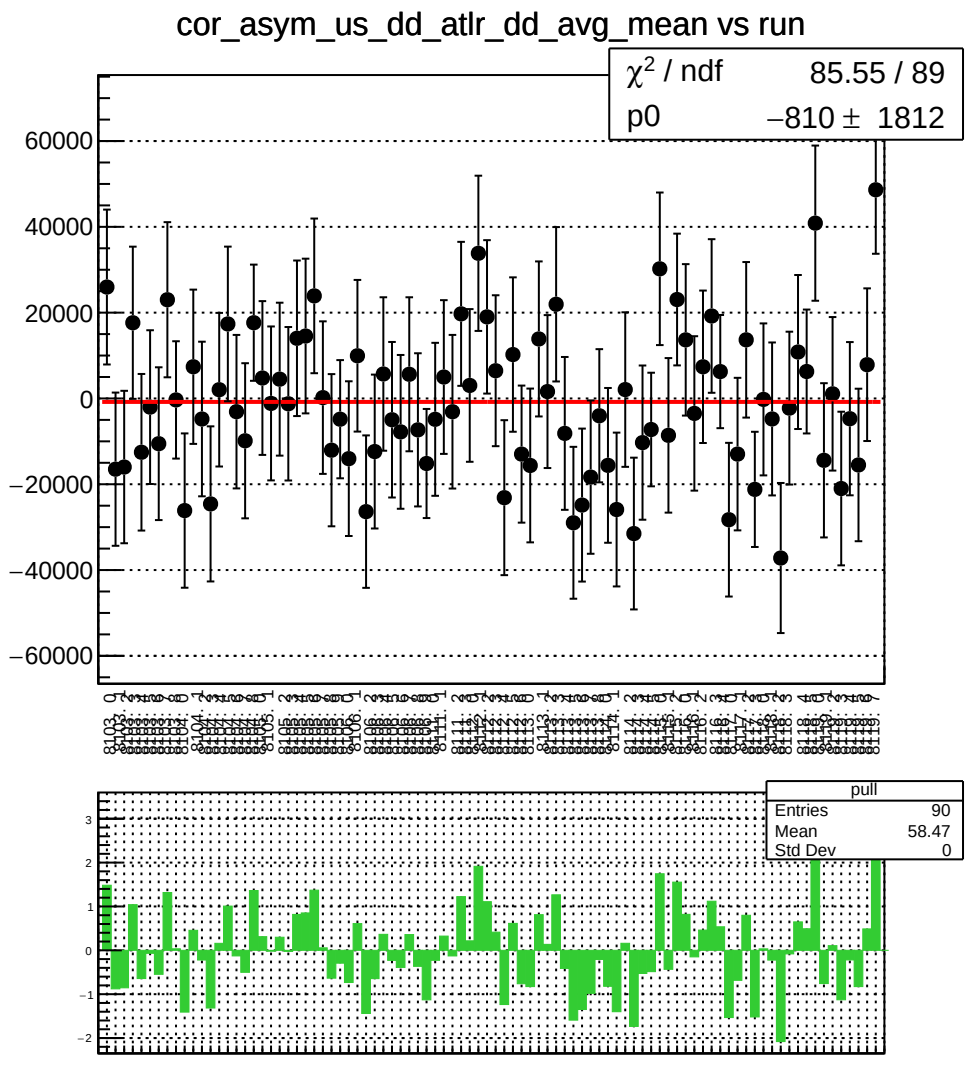

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.55 / 89
p0 −809.8 ± 1812
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 58.59
Std Dev 0
3
2
1
0
−1
−2

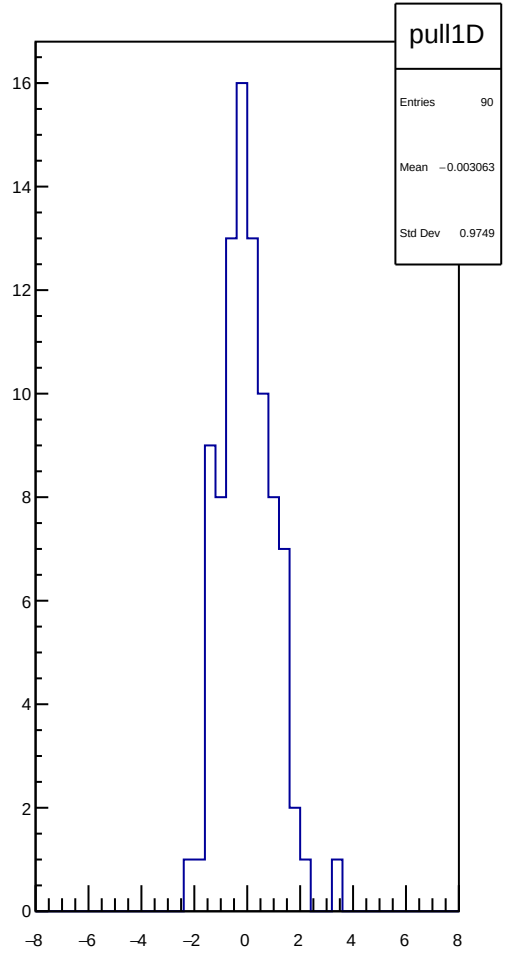

pull1D
Entries 90
Mean −0.003063
Std Dev 0.9749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

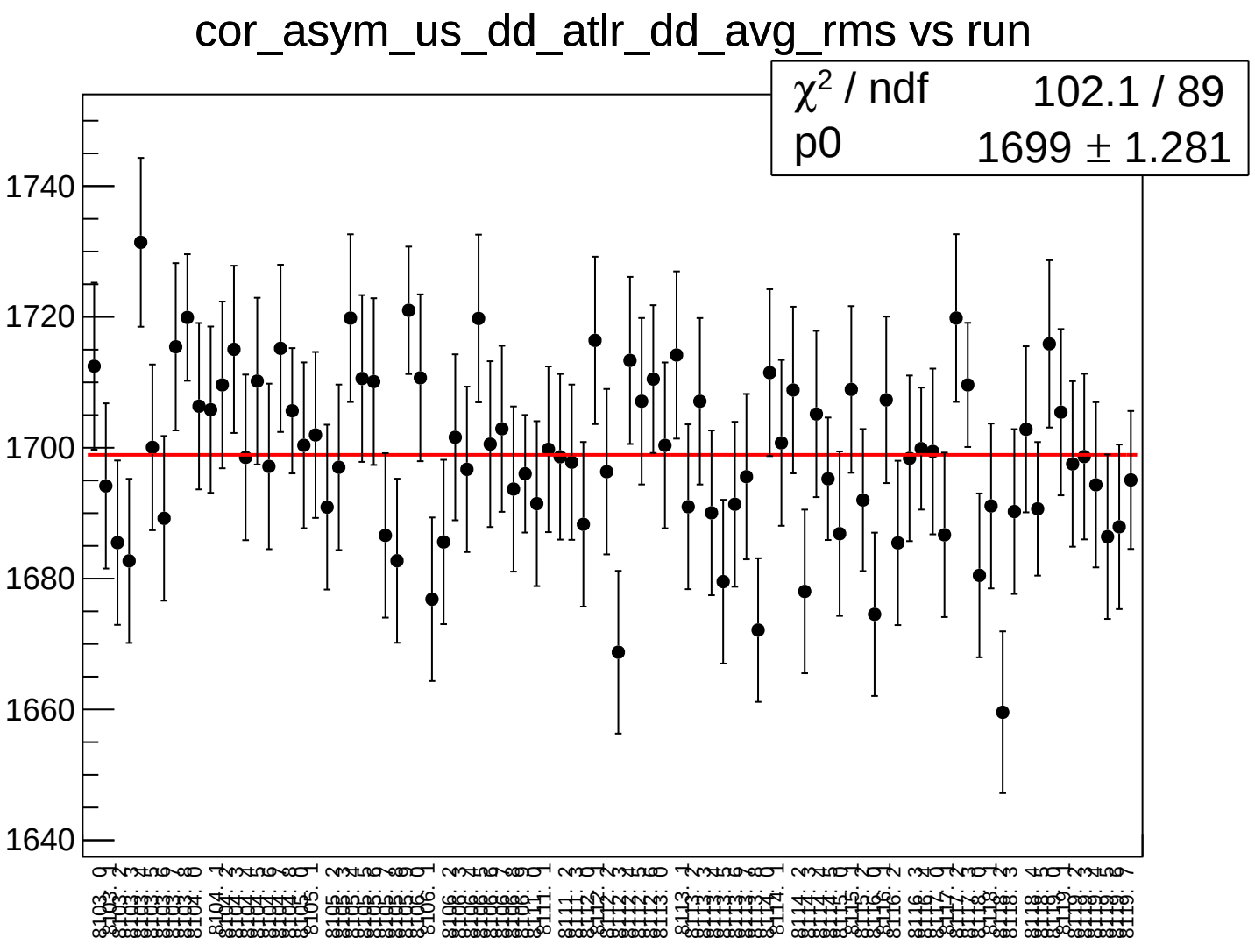

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 102.1 / 89
p0 1699 ± 1.281
1740
1720
1700
1680
1660
1640

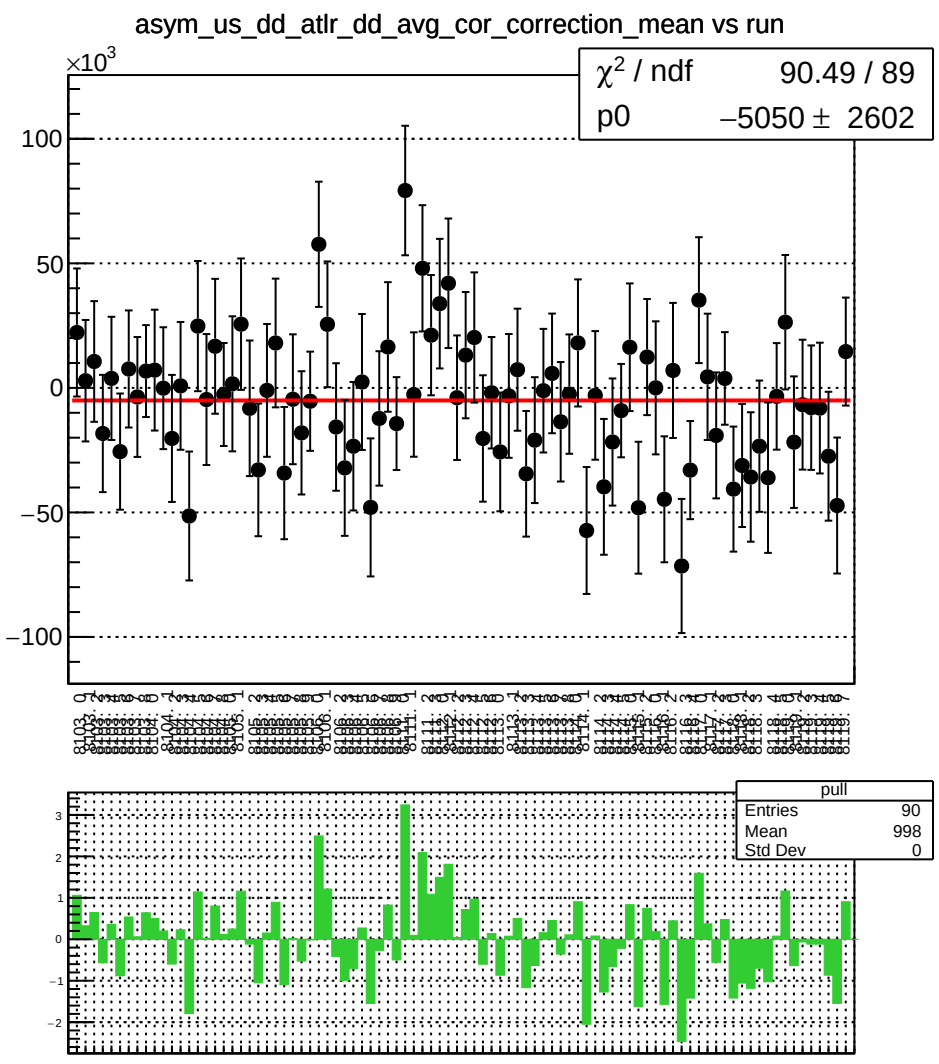

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.49 / 89
p0 −5049 ± 2602
100
50
0
−50
−100
pull
Entries 90
Mean 997.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.006235
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

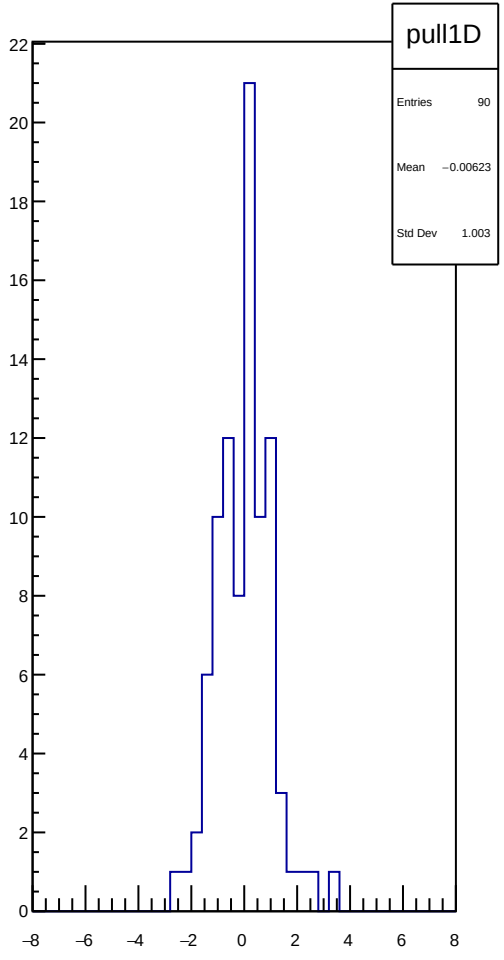

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3117 / 89
p0 2437 ± 1.84
2900
2800
2700
2600
2500
2400
2300
2200

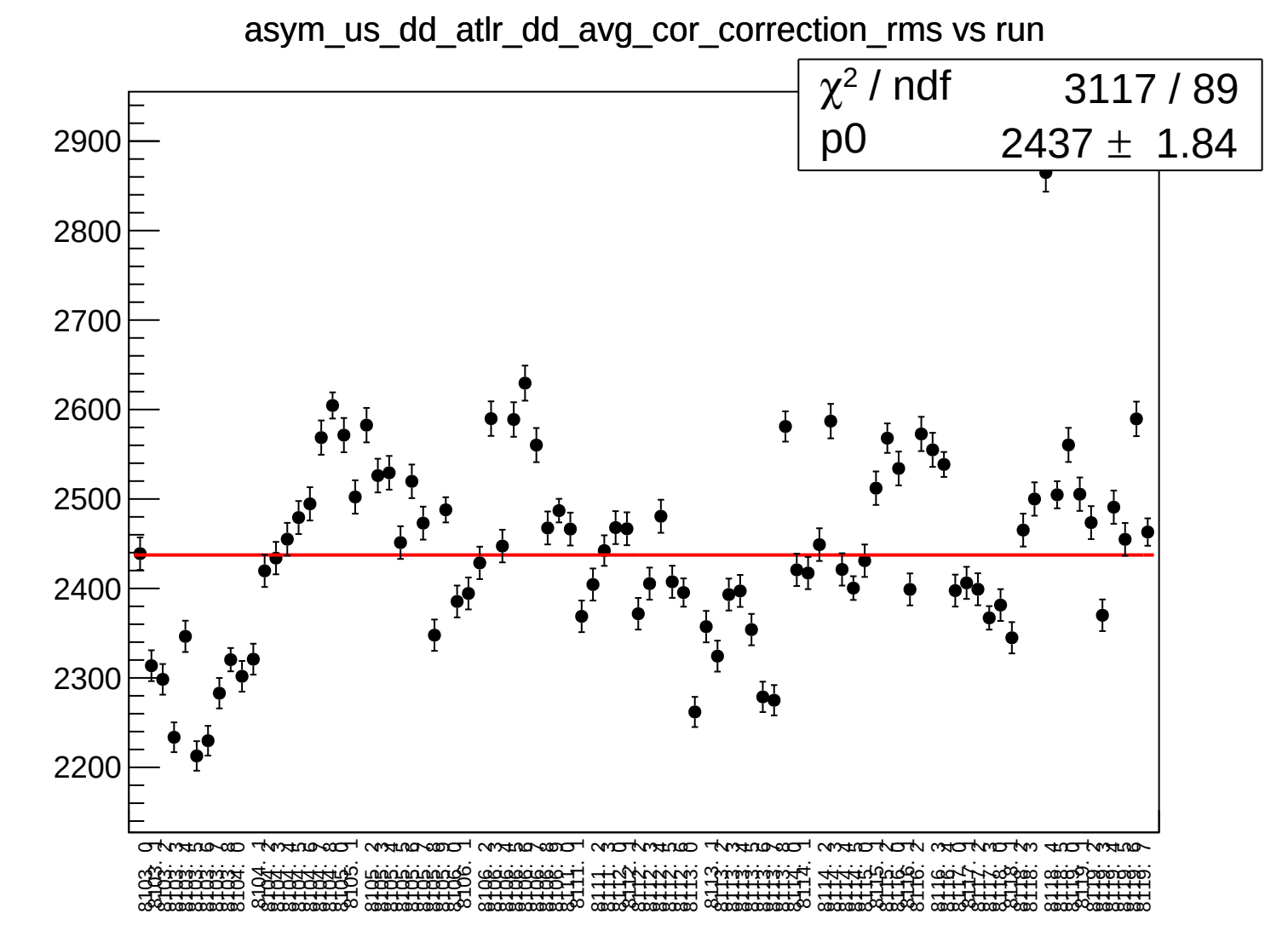

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.55 / 89
p0 −810 ± 1812
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 58.47
Std Dev 0
3
2
1
0
−1
−2

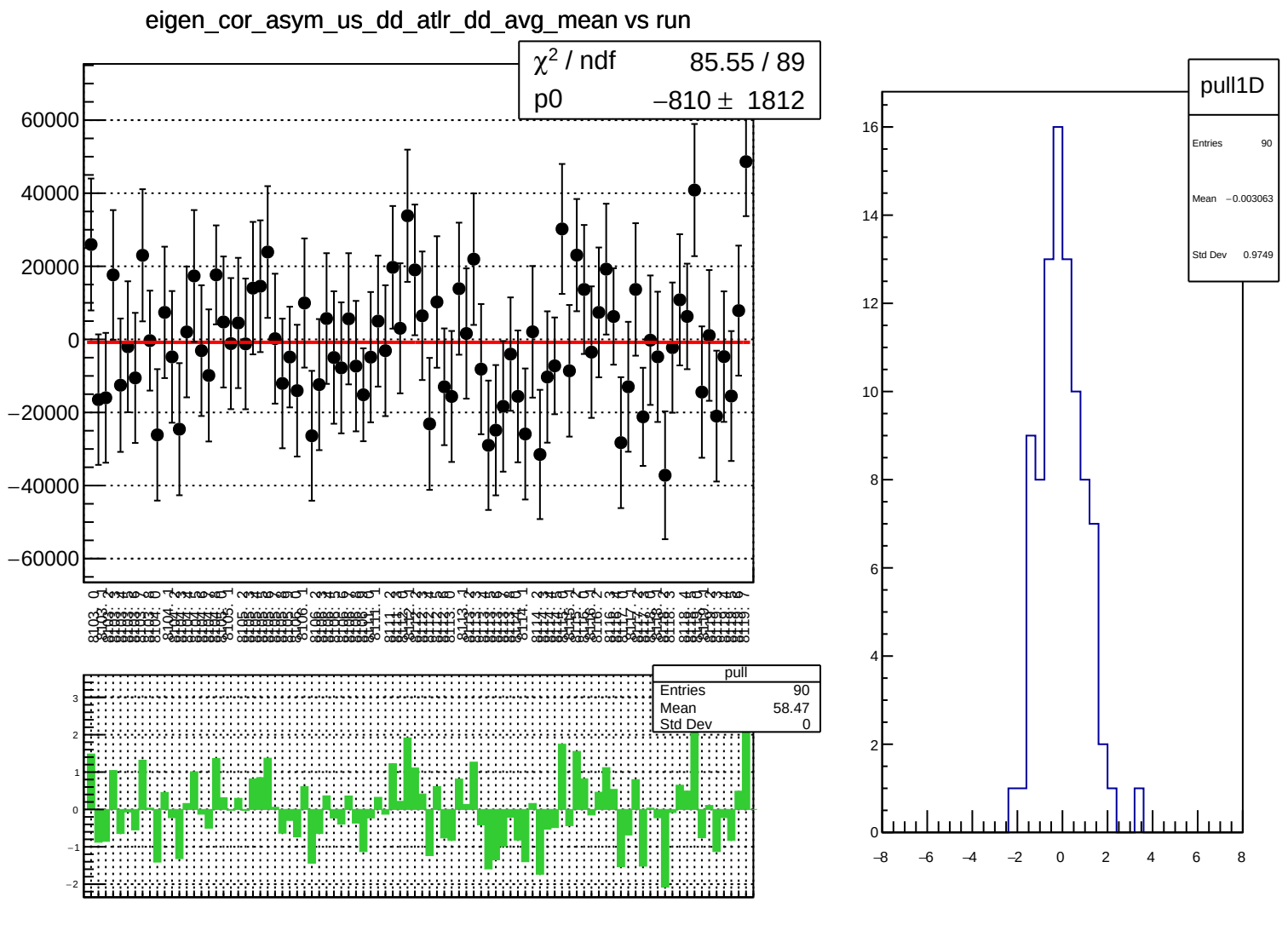

pull1D
Entries 90
Mean −0.003063
Std Dev 0.9749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

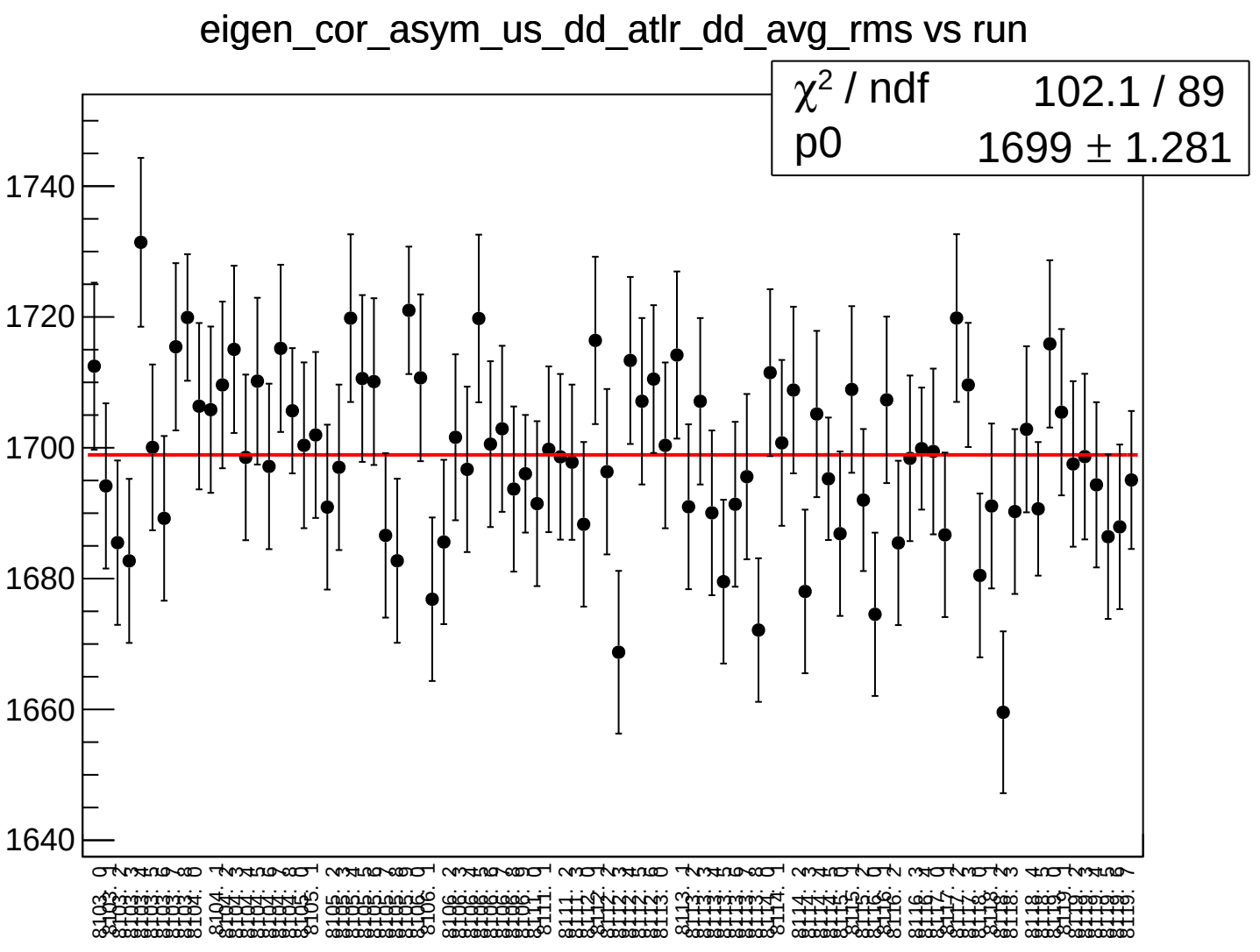

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 102.1 / 89
p0 1699 ± 1.281
1740
1720
1700
1680
1660
1640

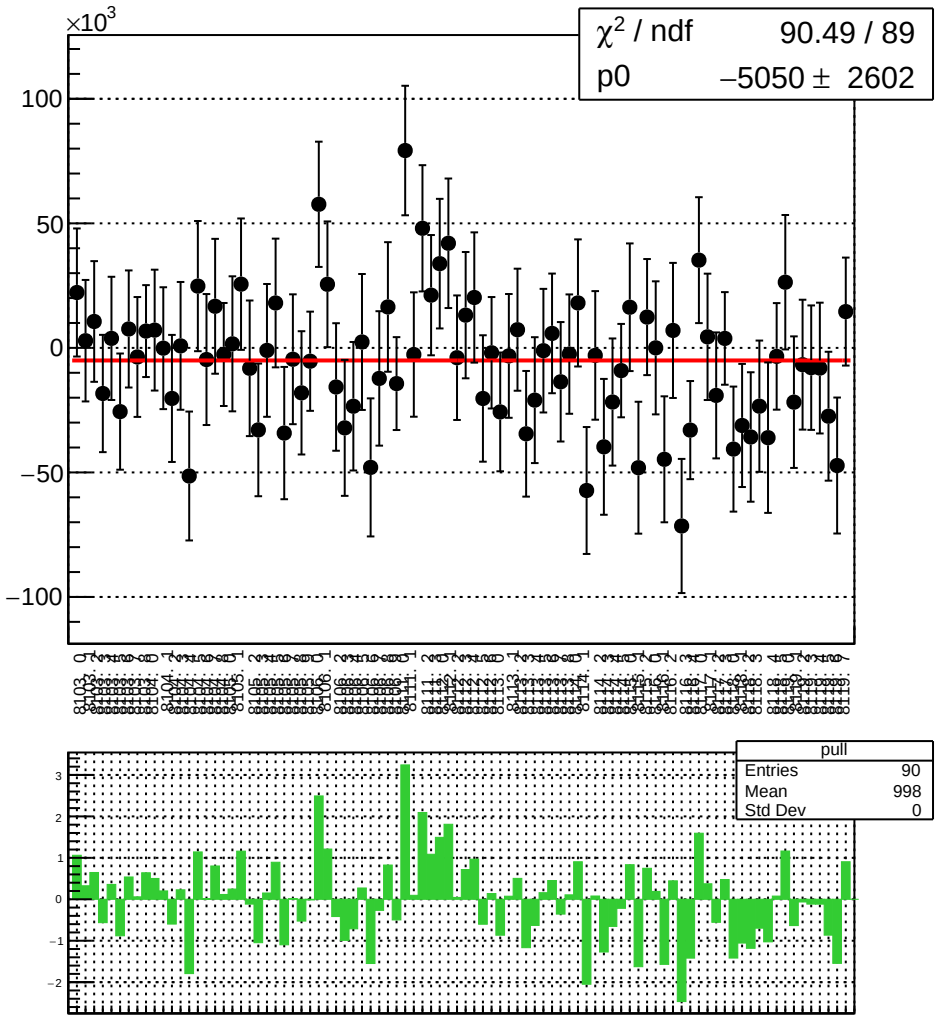

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.49 / 89
p0 −5050 ± 2602
100
50
0
−50
−100
pull
Entries 90
Mean 998
Std Dev 0
3
2
1
0
−1
−2

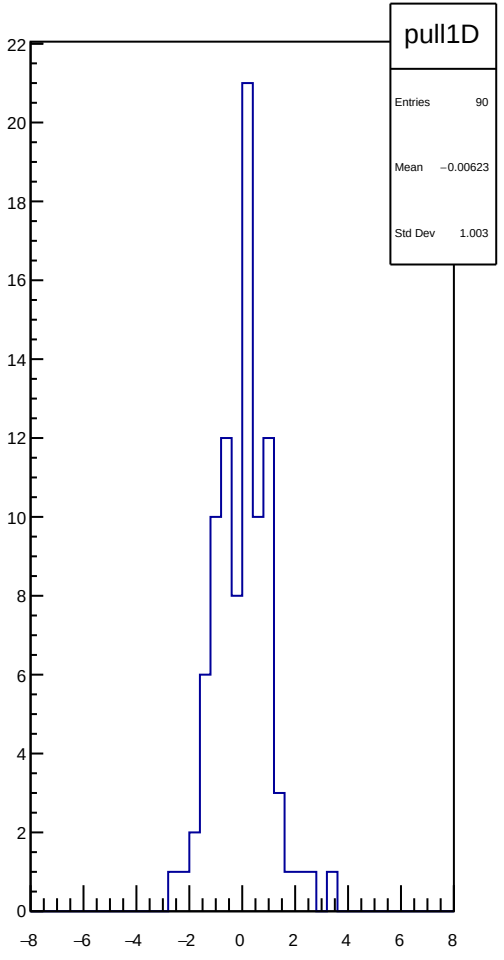

pull1D
Entries 90
Mean −0.00623
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

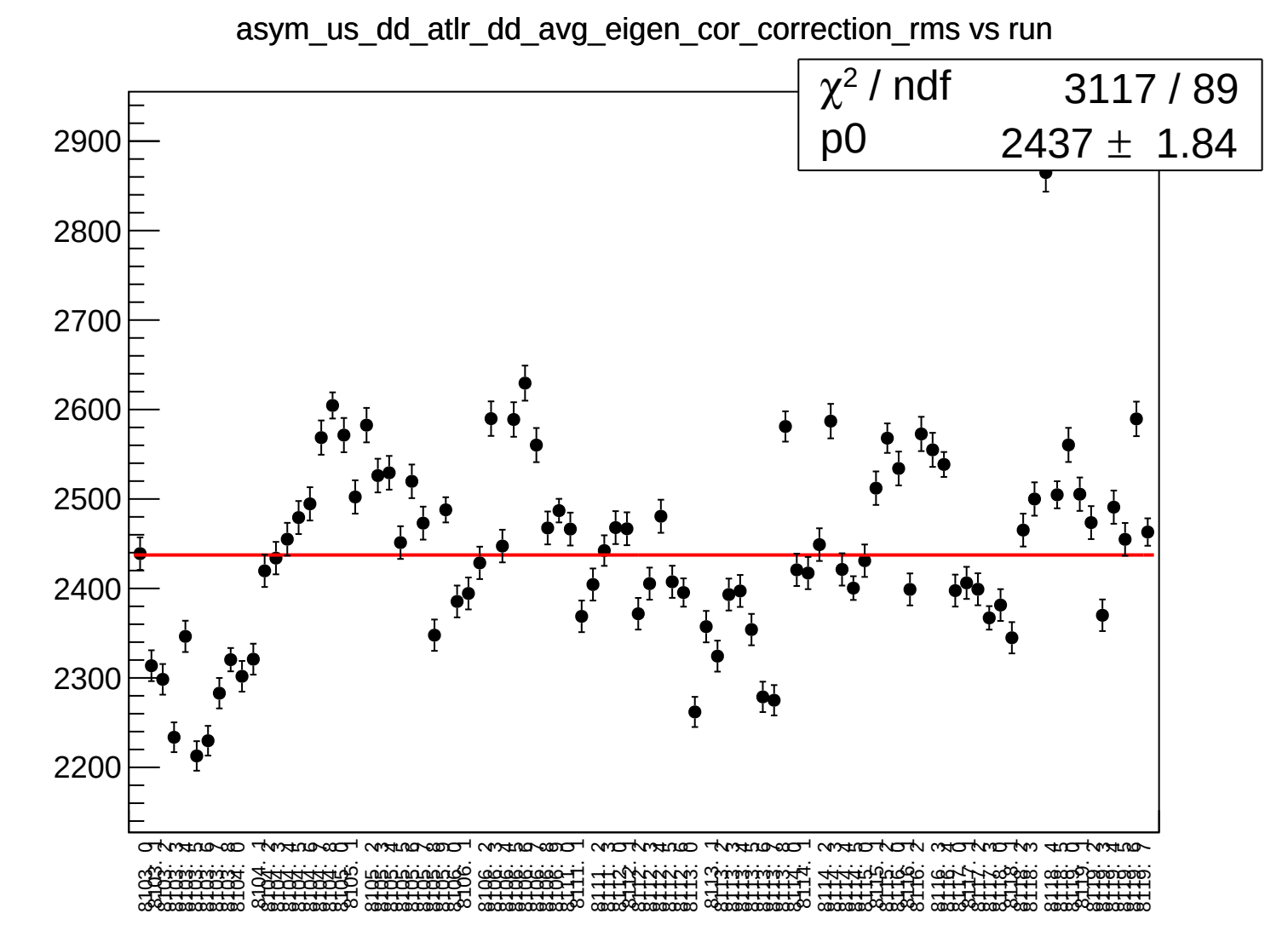

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3117 / 89
p0 2437 ± 1.84
2900
2800
2700
2600
2500
2400
2300
2200

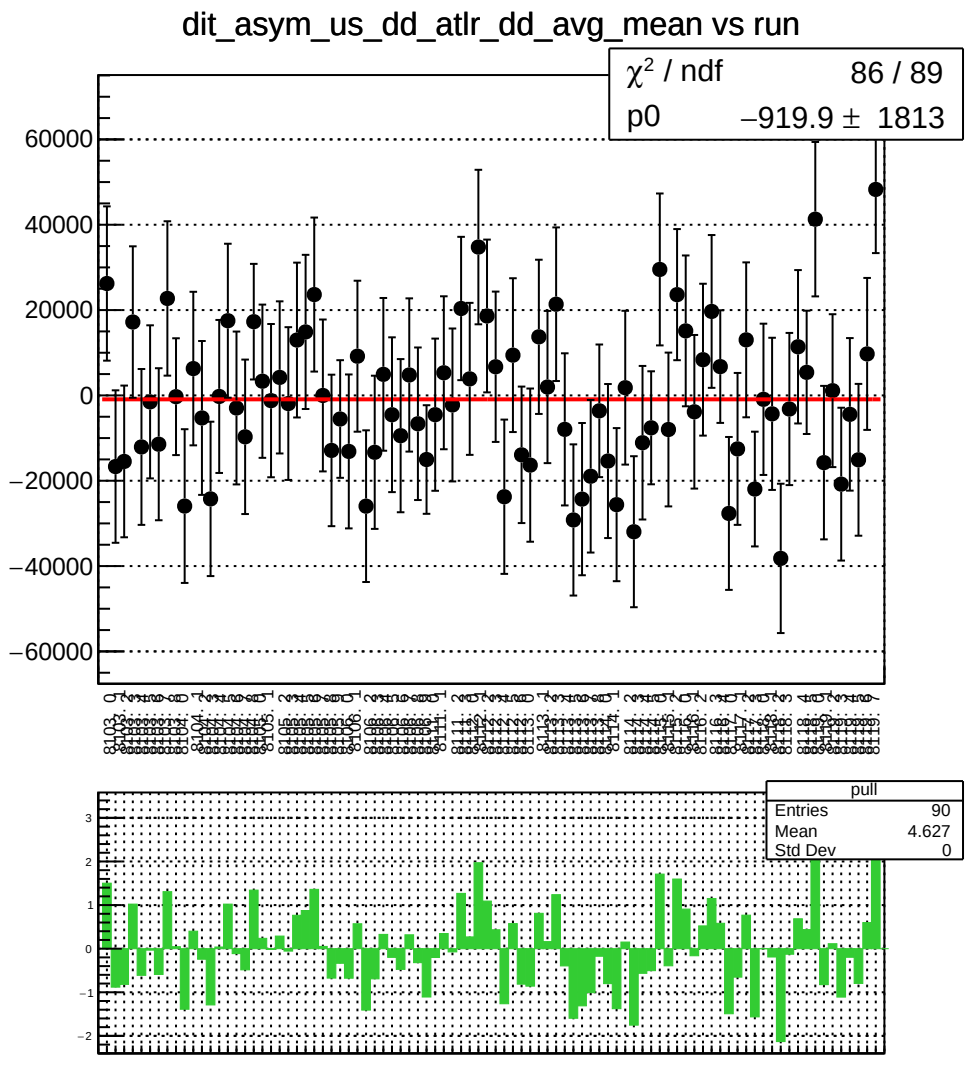

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.55 / 89
p0 −810 ± 1812
pull
Entries 90
Mean 58.47
Std Dev 0
pull1D
Entries 90
Mean −0.003063
Std Dev 0.9749

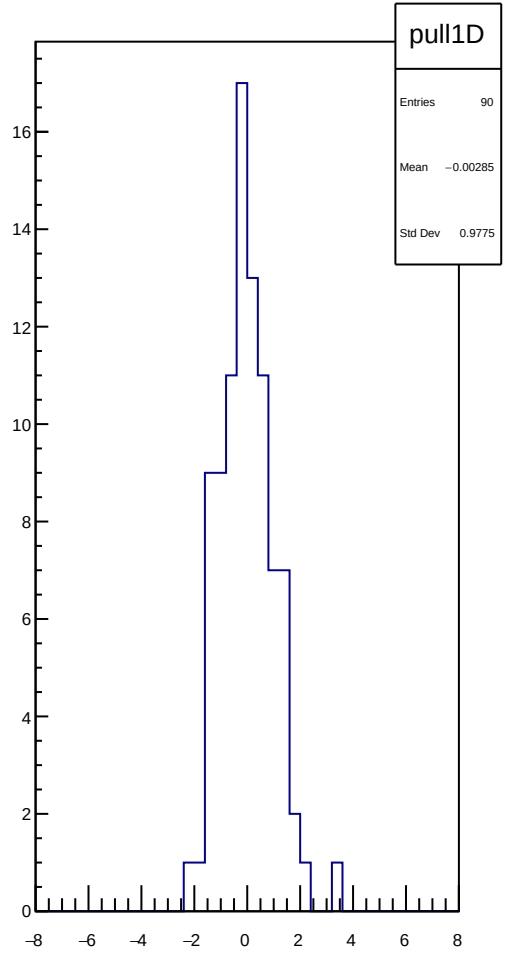

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 102.1 / 89
p0 1699 ± 1.281
1740
1720
1700
1680
1660
1640

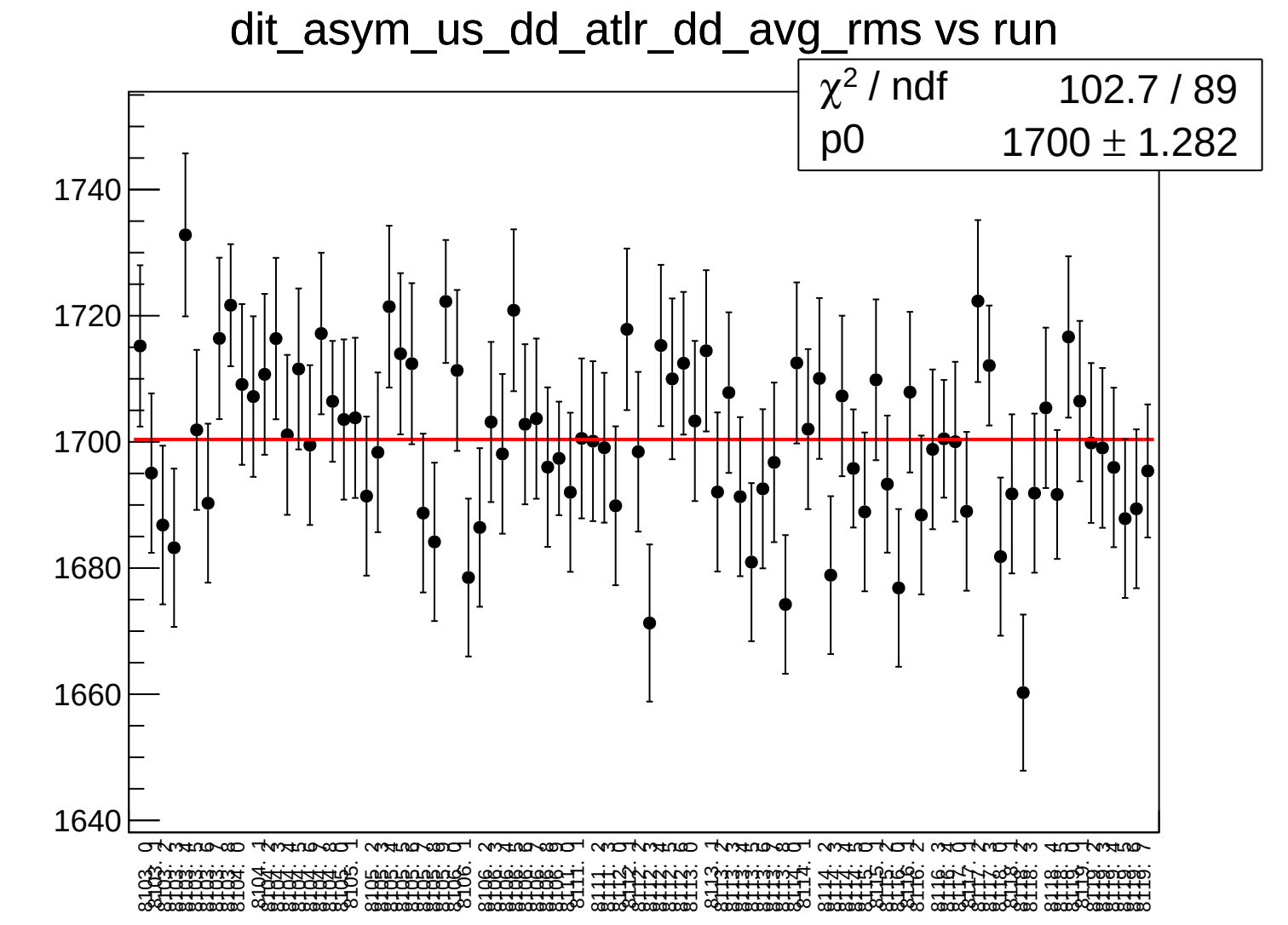

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.49 / 89
p0 −5050 ± 2602
100
50
0
−50
−100
pull
Entries 90
Mean 998
Std Dev 0
3
2
1
0
−1
−2

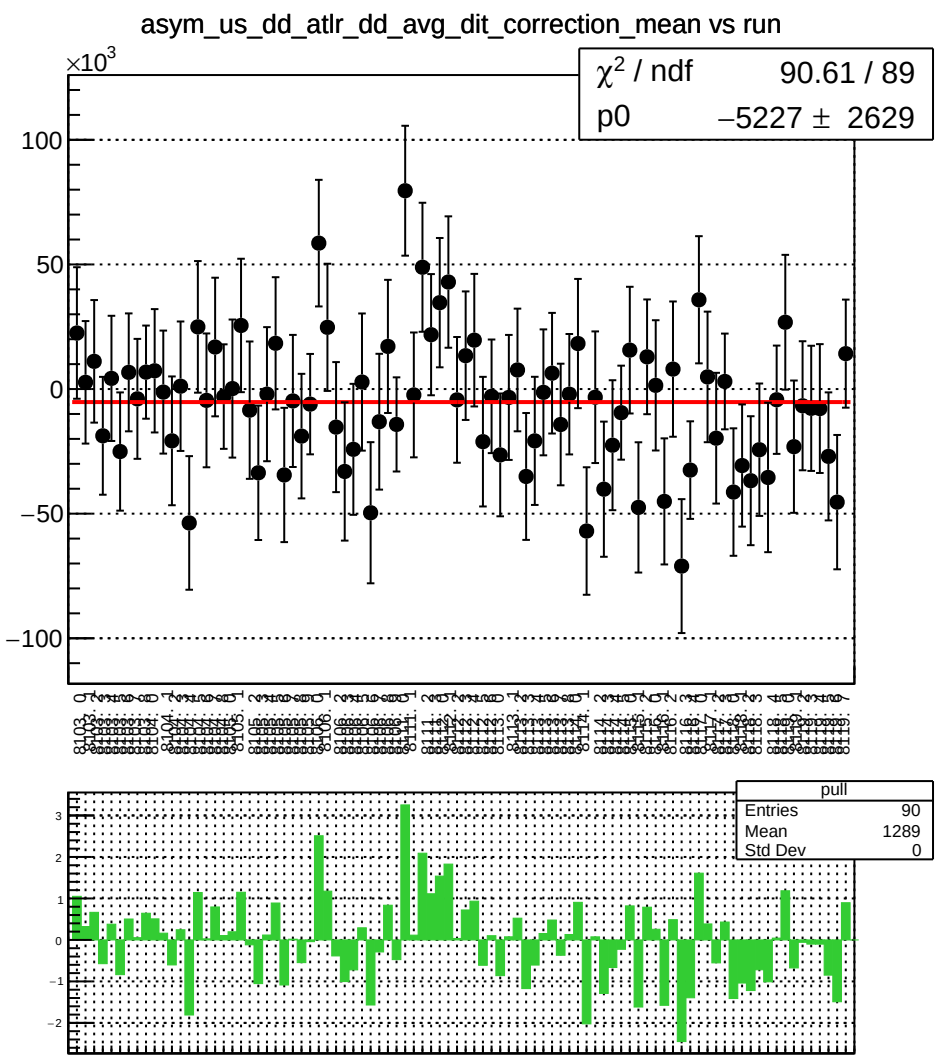

pull1D
Entries 90
Mean −0.00623
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

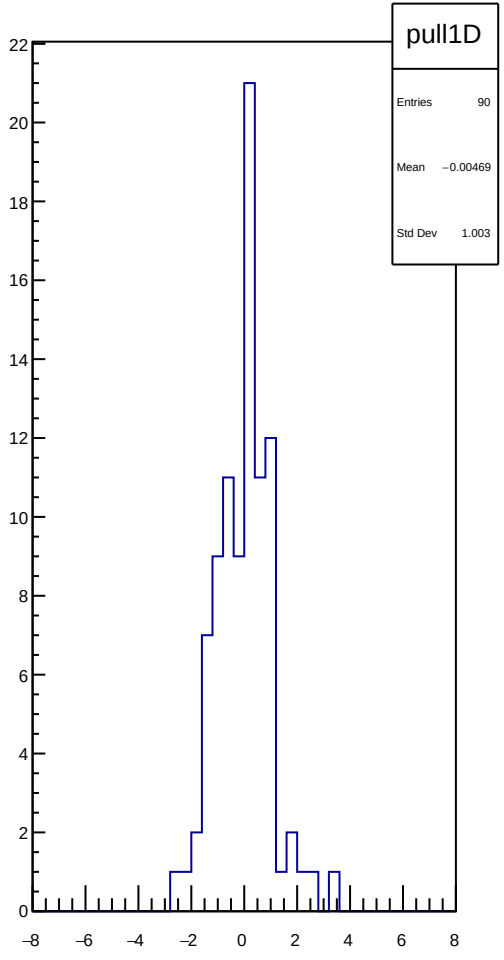

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3117 / 89
p0 2437 ± 1.84
2900
2800
2700
2600
2500
2400
2300
2200

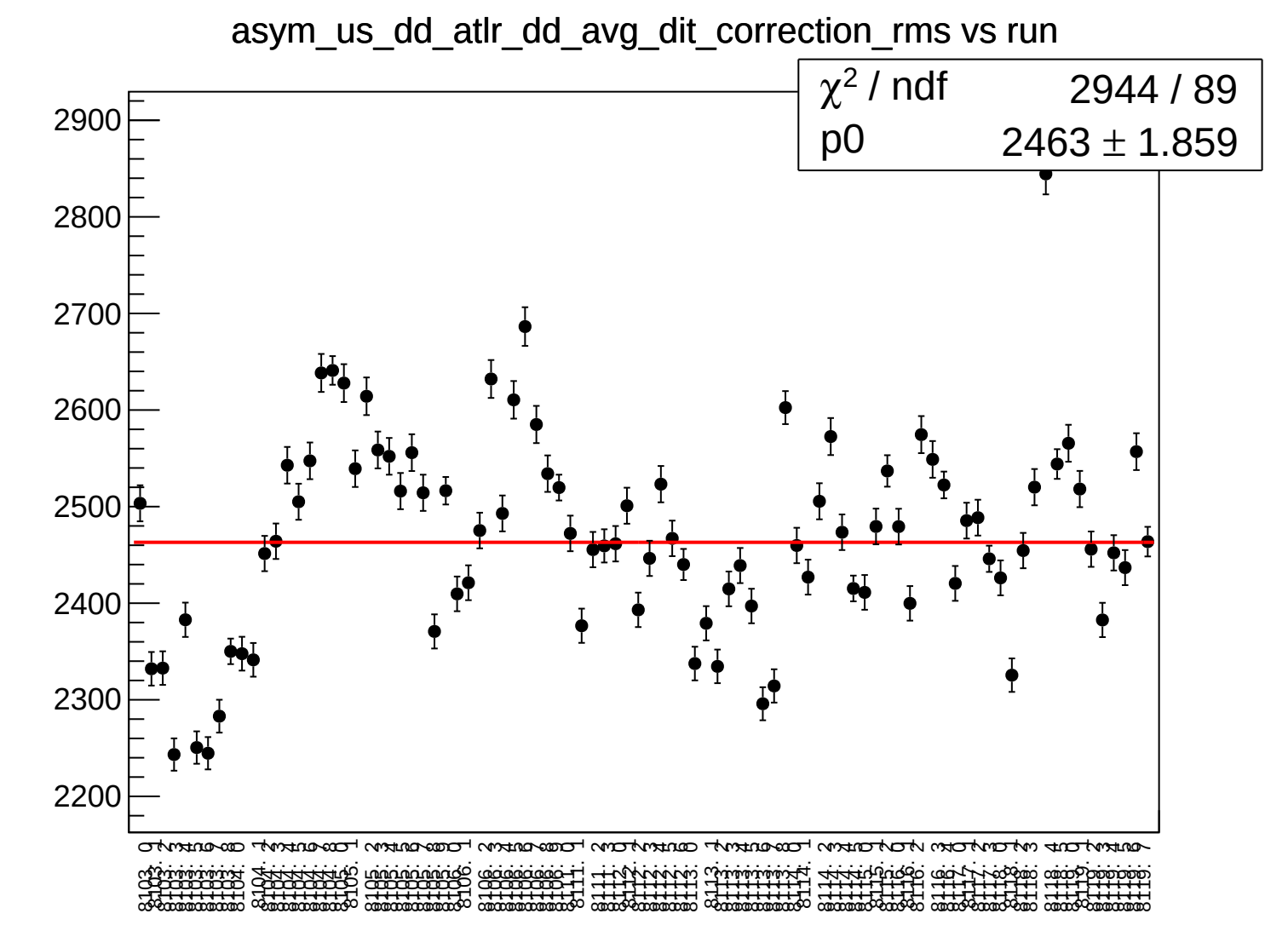

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 86 / 89
p0 −919.9 ± 1813
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 4.627
Std Dev 0
3
2
1
0
−1
−2

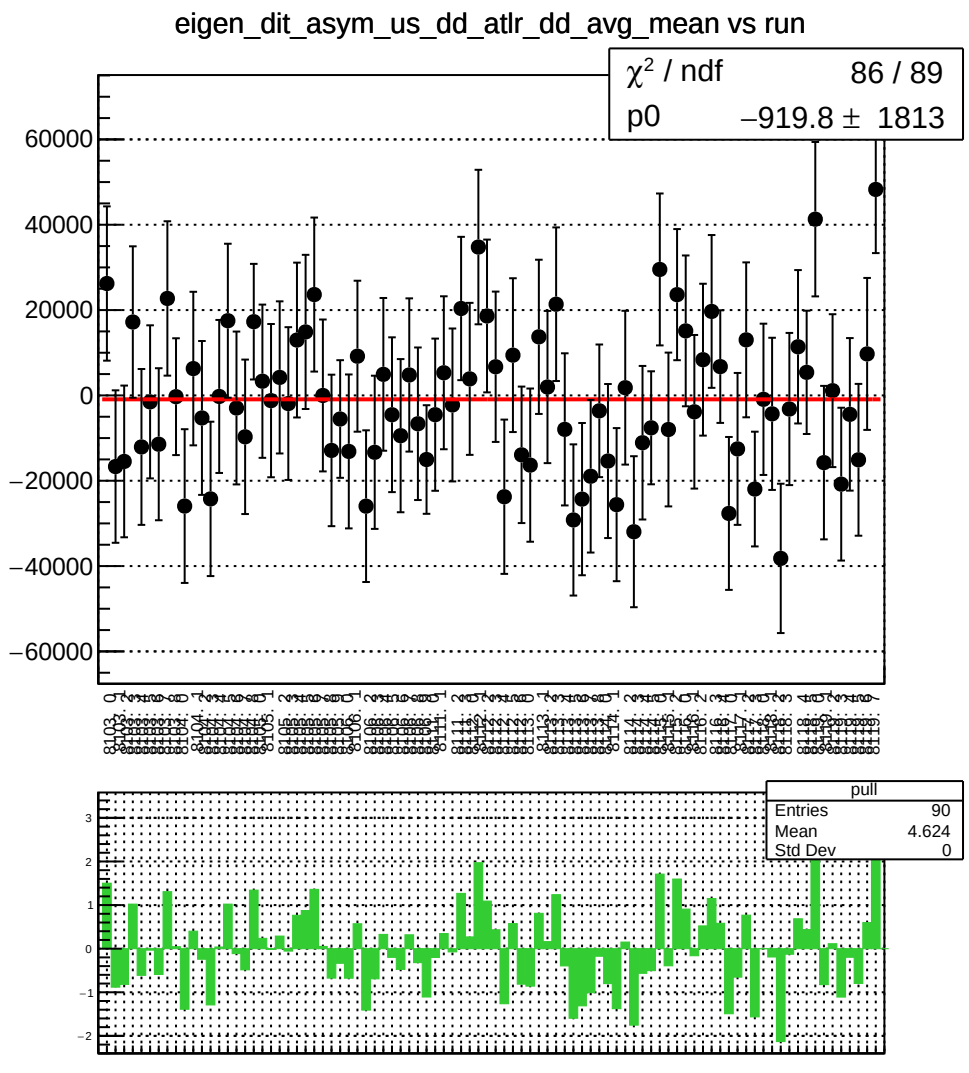

pull1D
Entries 90
Mean −0.00285
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

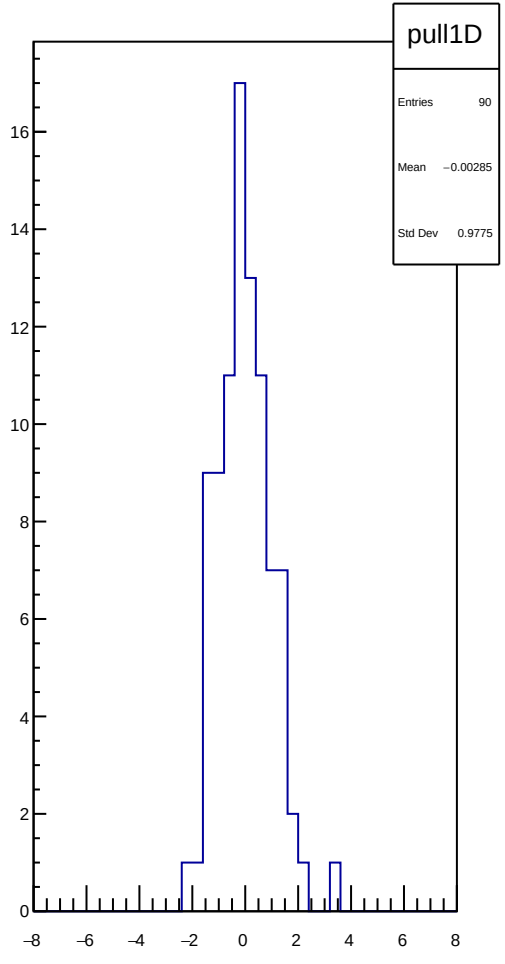

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 102.7 / 89
p0 1700 ± 1.282
1740
1720
1700
1680
1660
1640

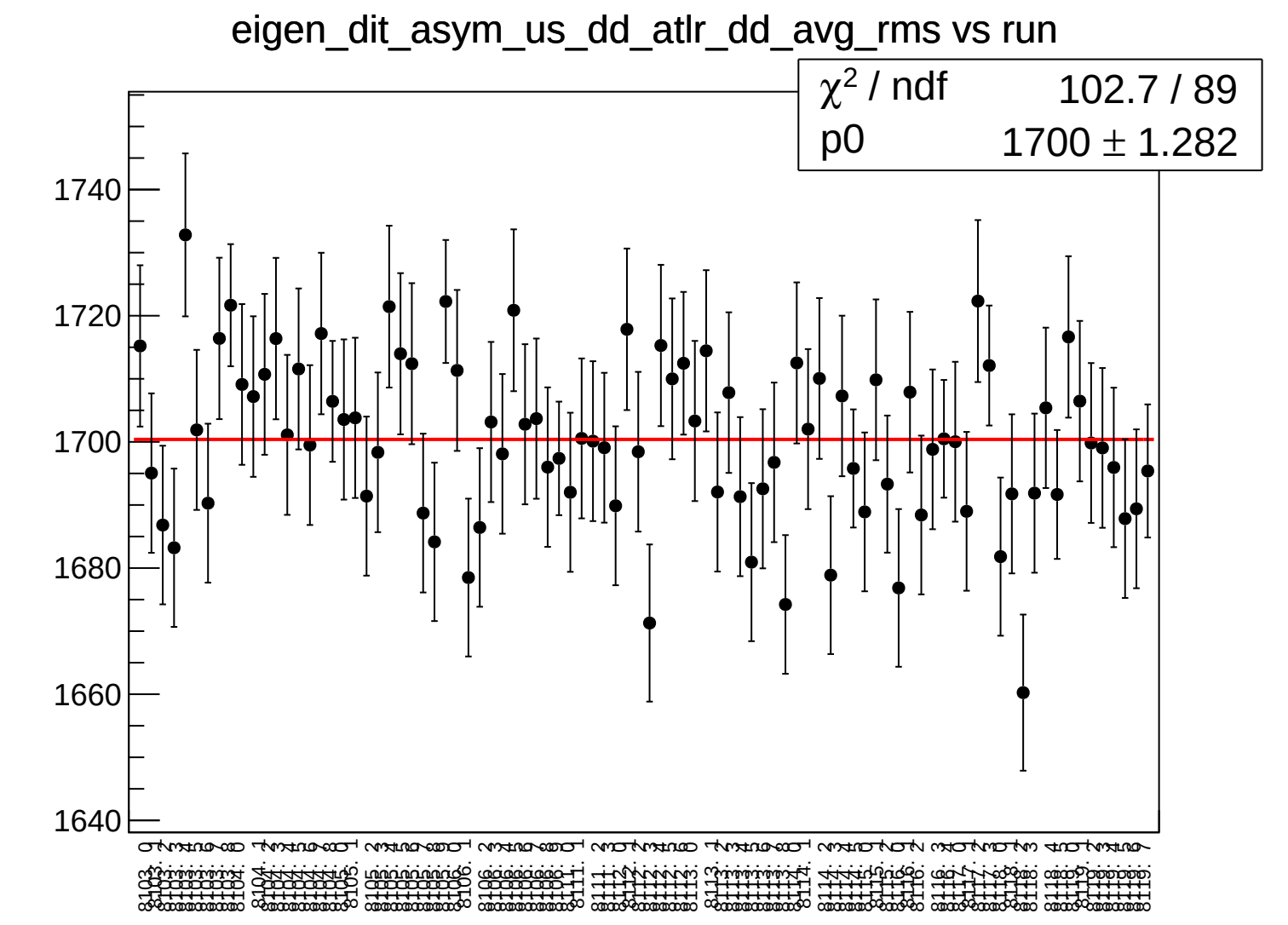

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.61 / 89
p0 −5227 ± 2629
100
50
0
−50
−100
pull
Entries 90
Mean 1289
Std Dev 0
3
2
1
0
−1
−2

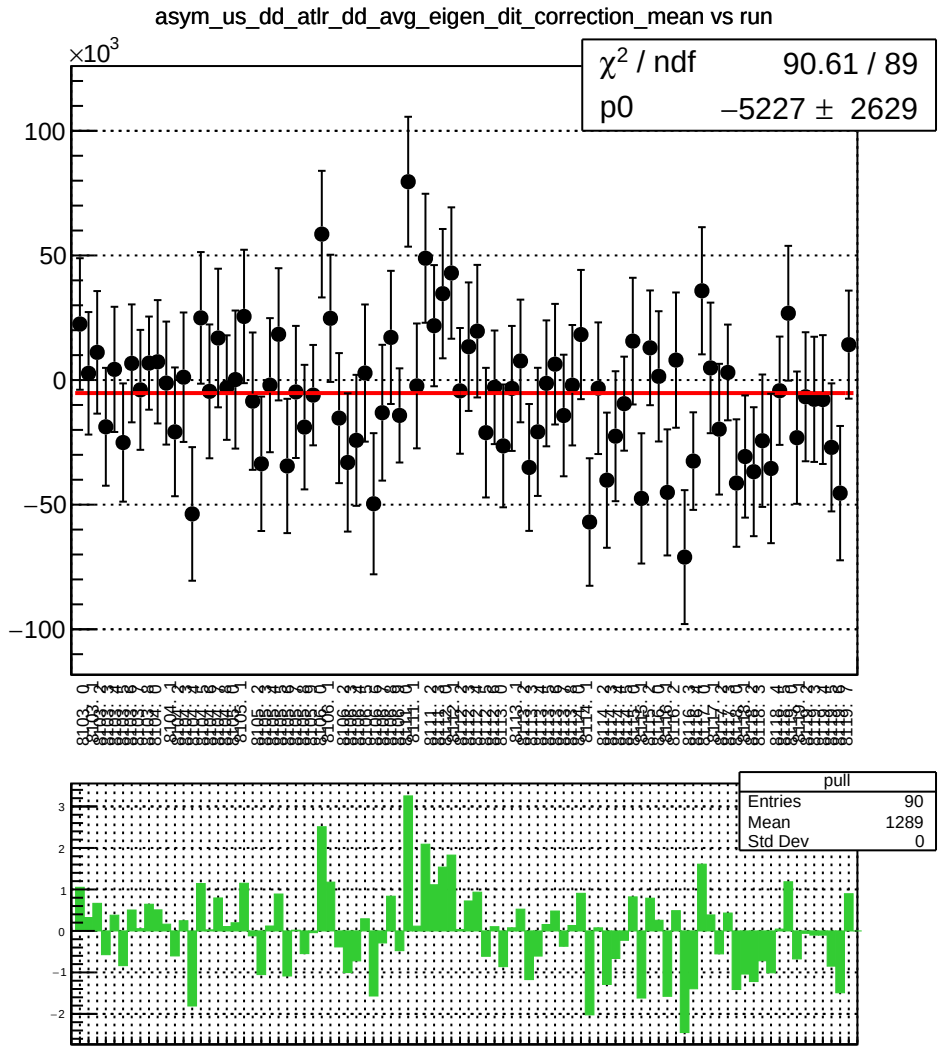

pull1D
Entries 90
Mean −0.00469
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

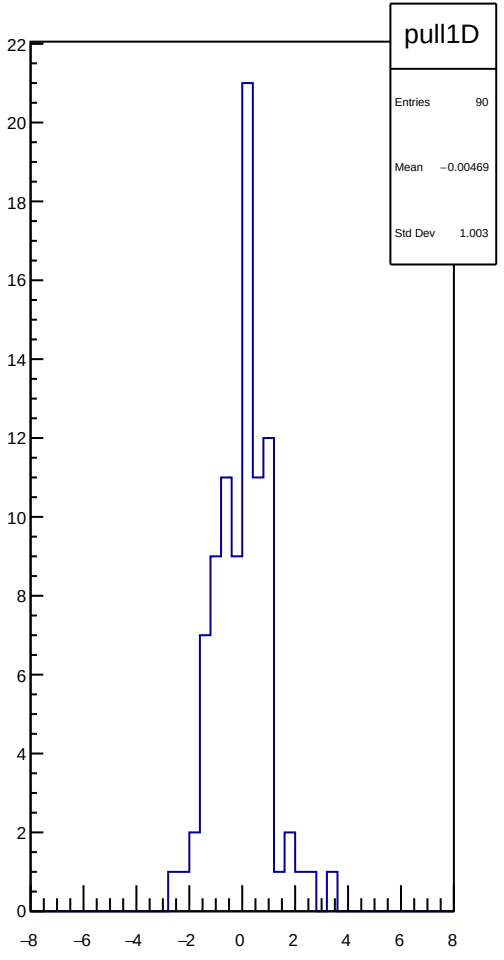

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 2944 / 89
p0 2463 ± 1.859
2900
2800
2700
2600
2500
2400
2300
2200

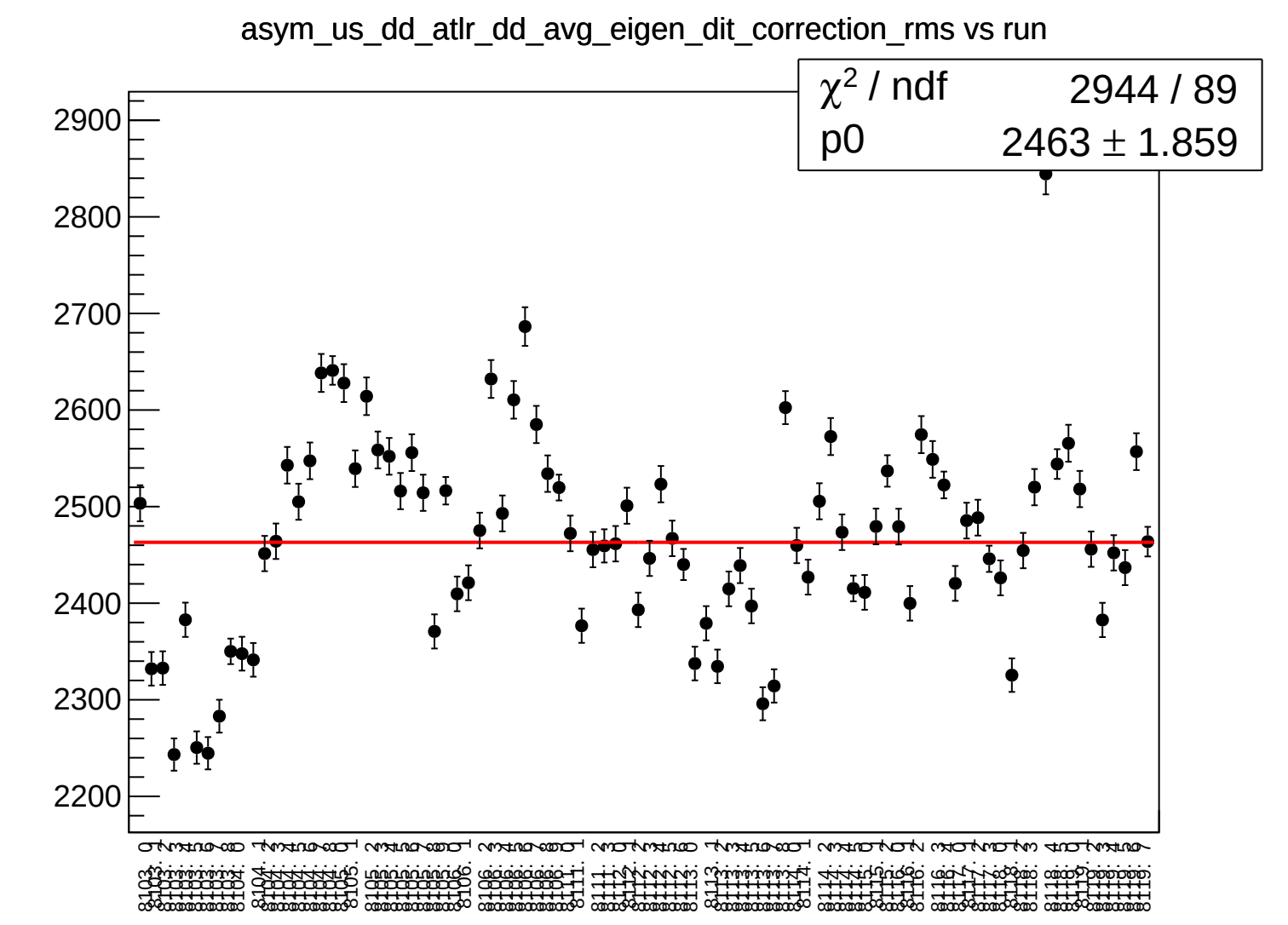

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 86 / 89
p0 −919.8 ± 1813
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 4.624
Std Dev 0
3
2
1
0
−1
−2

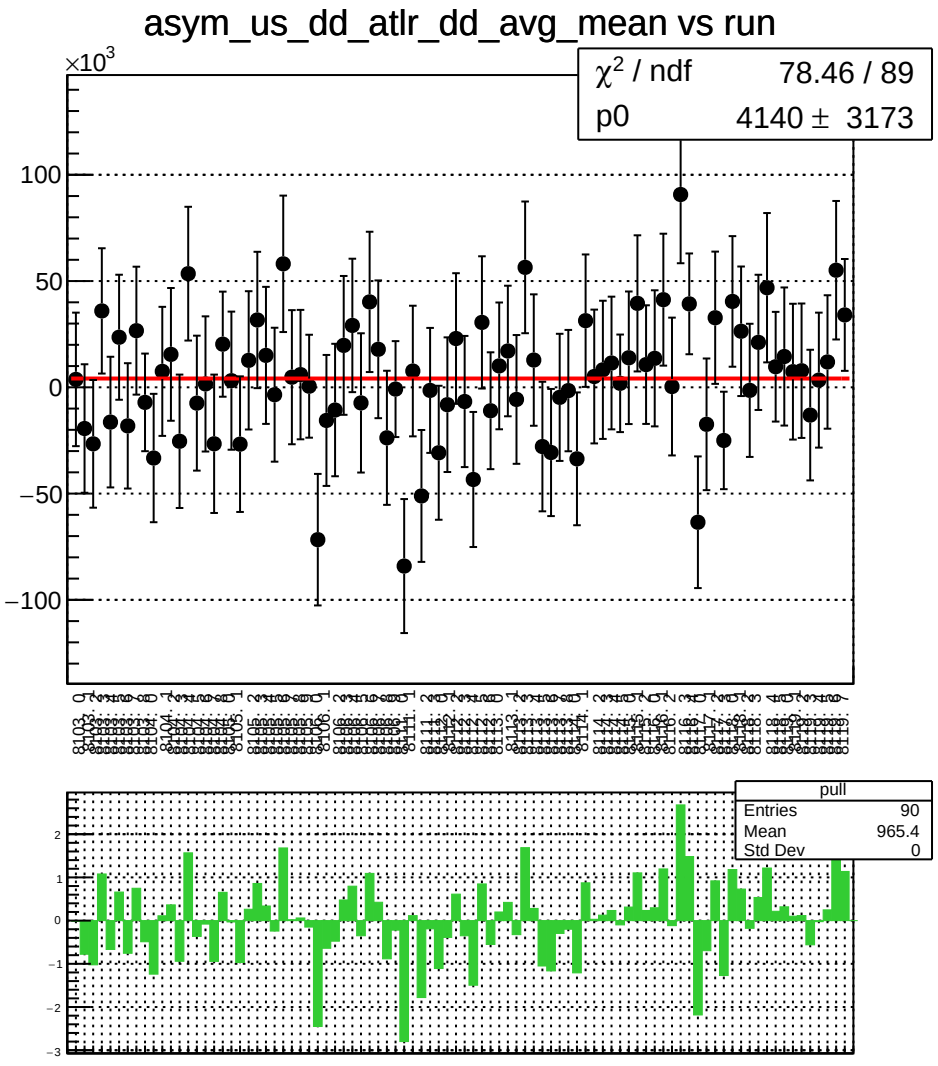

pull1D
Entries 90
Mean −0.00285
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

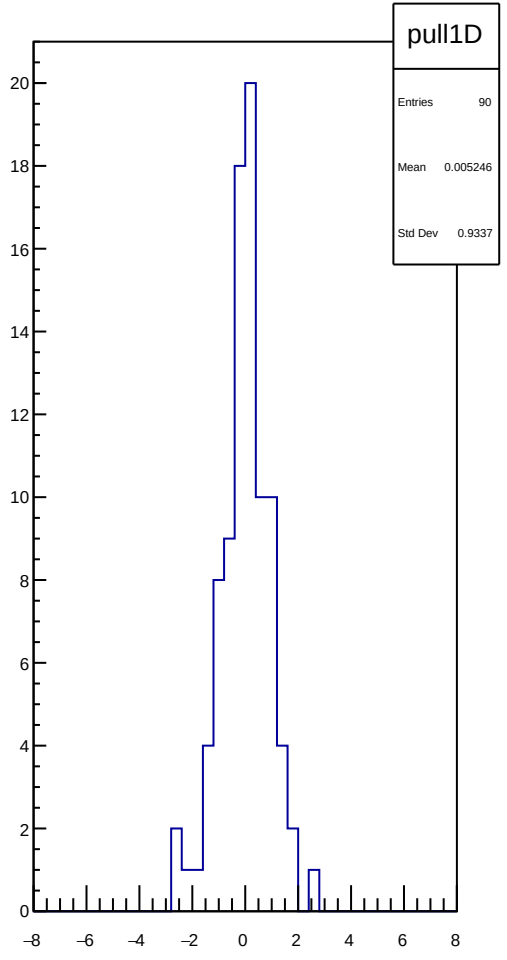

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 102.7 / 89
p0 1700 ± 1.282
1740
1720
1700
1680
1660
1640

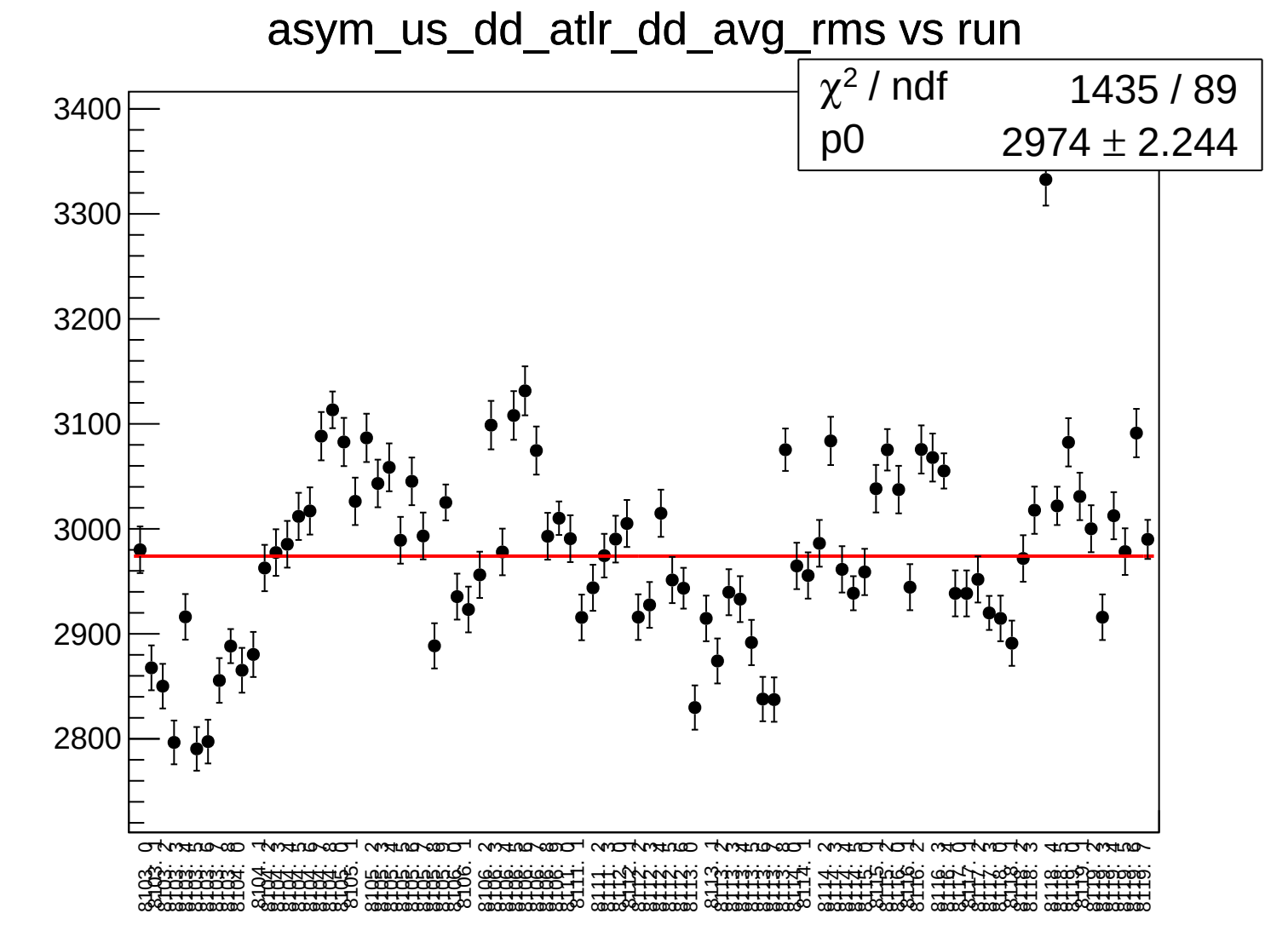

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.61 / 89
p0 −5227 ± 2629
100
50
0
−50
−100
pull
Entries 90
Mean 1289
Std Dev 0
3
2
1
0
−1
−2

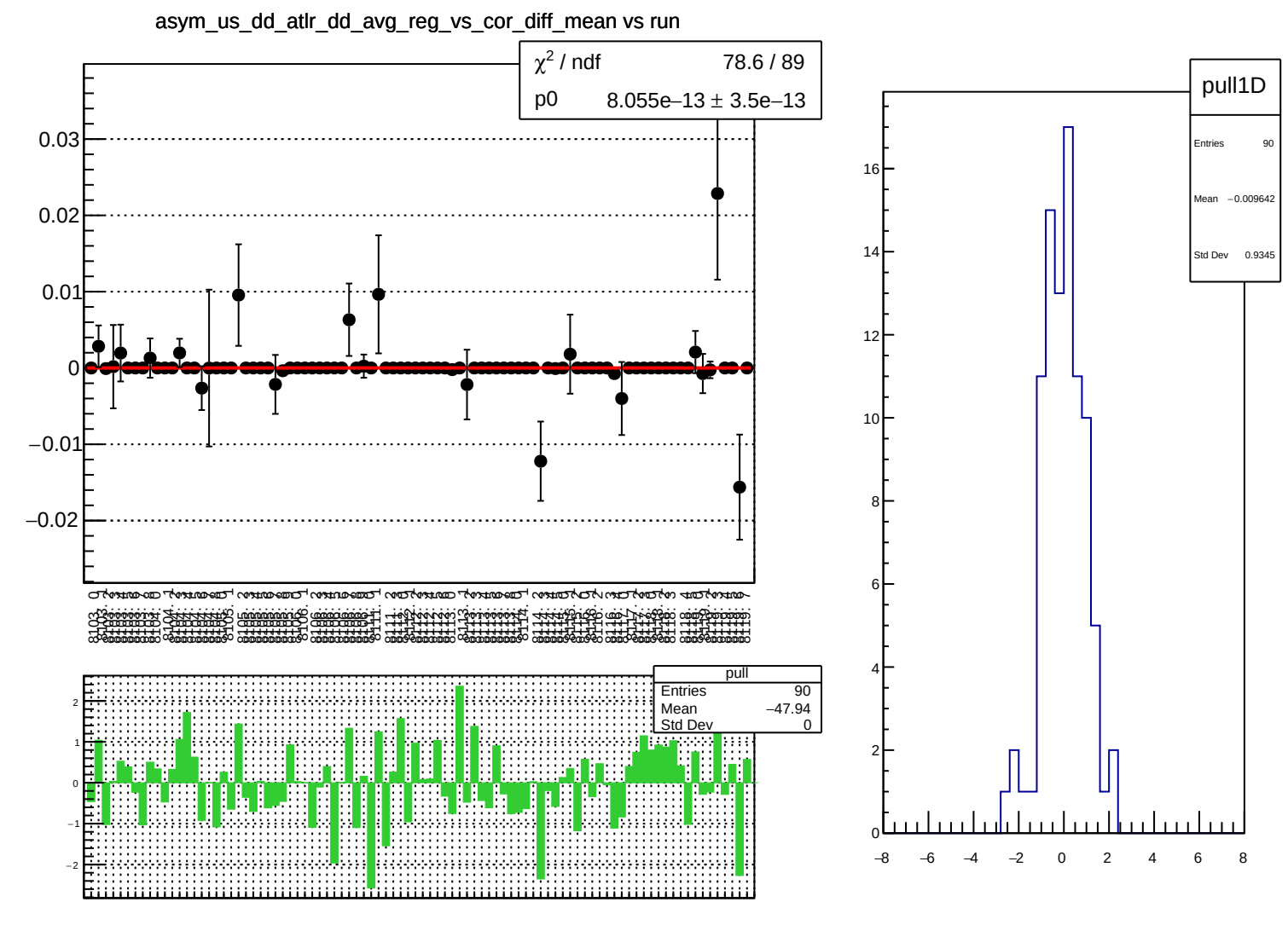

pull1D
Entries 90
Mean −0.00469
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

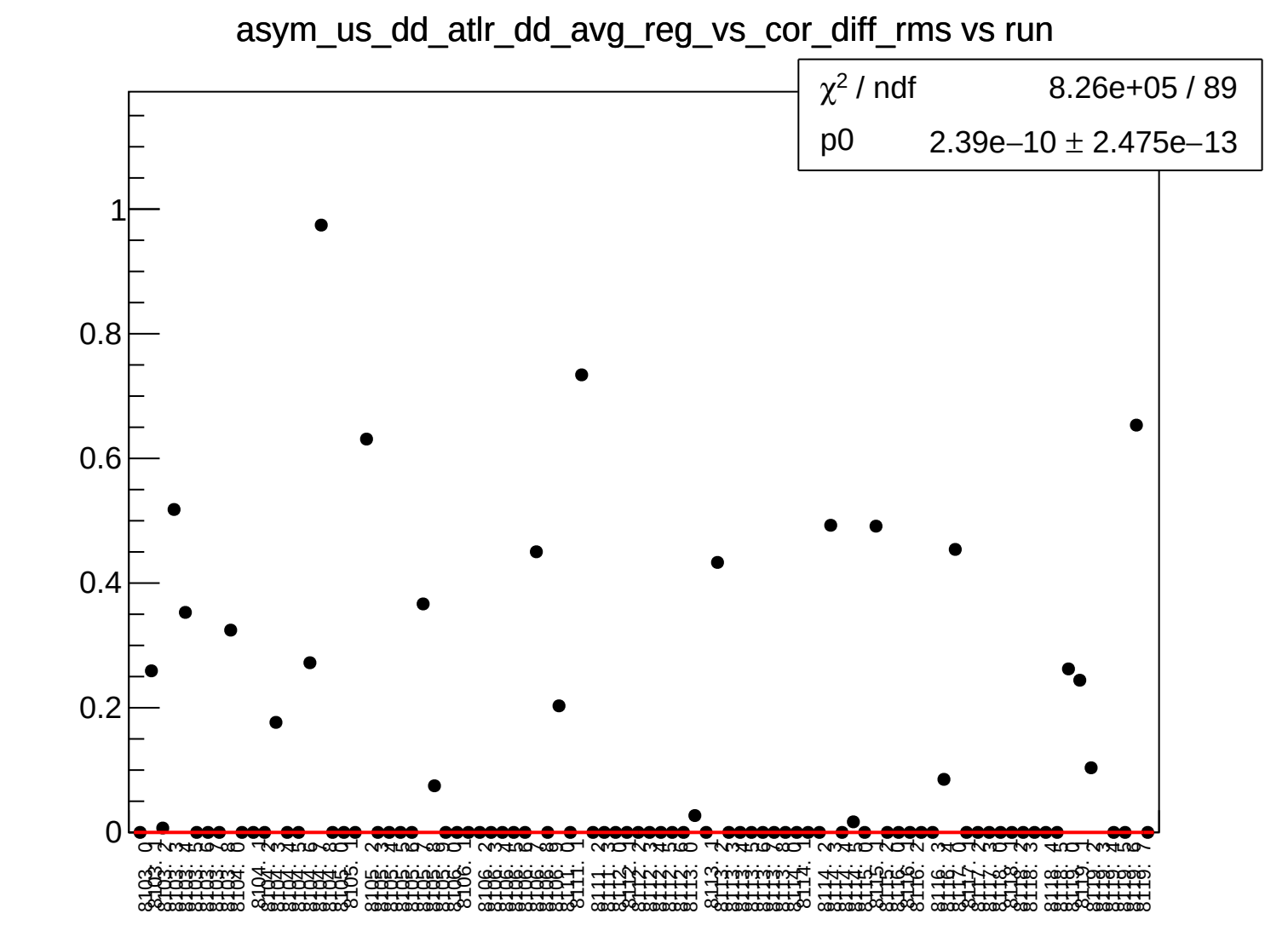

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2944 / 89
p0 2463 ± 1.859
2900
2800
2700
2600
2500
2400
2300
2200

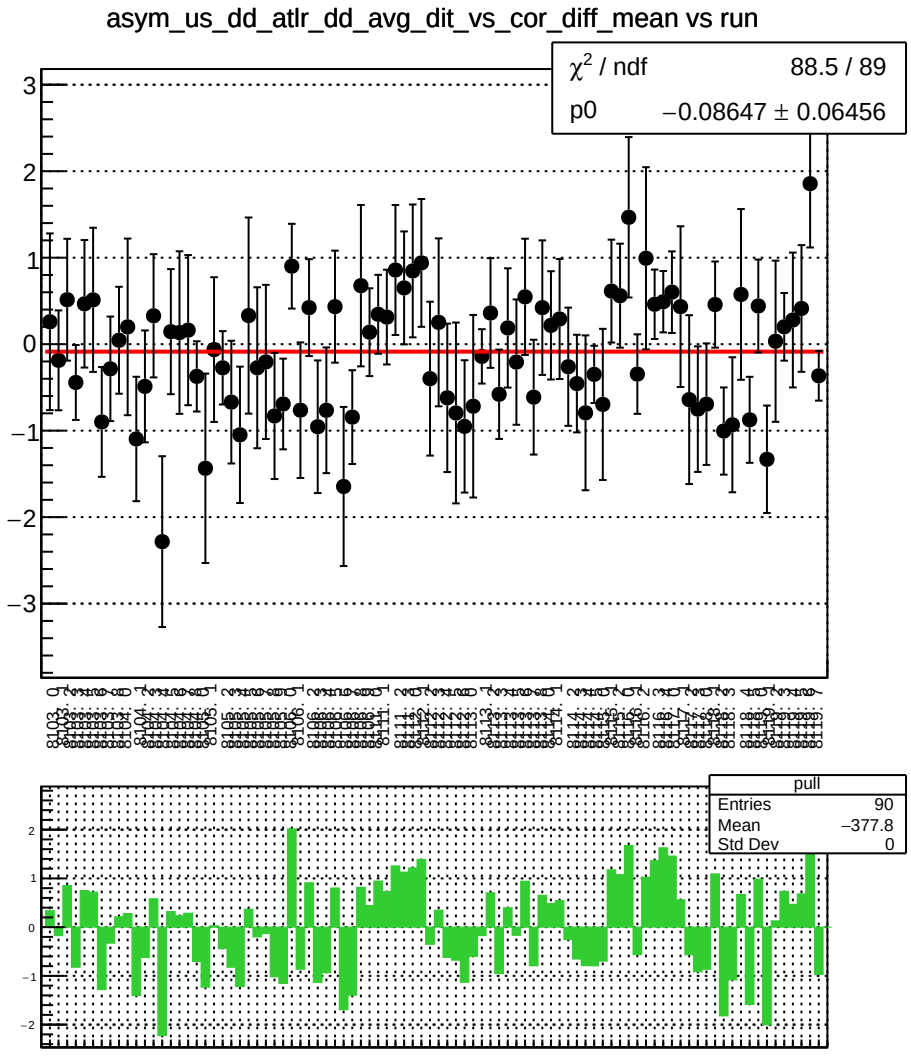

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 78.46 / 89
p0 4140 ± 3173
100
50
0
−50
−100
pull
Entries 90
Mean 965.4
Std Dev 0
2
1
0
−1
−2
−3

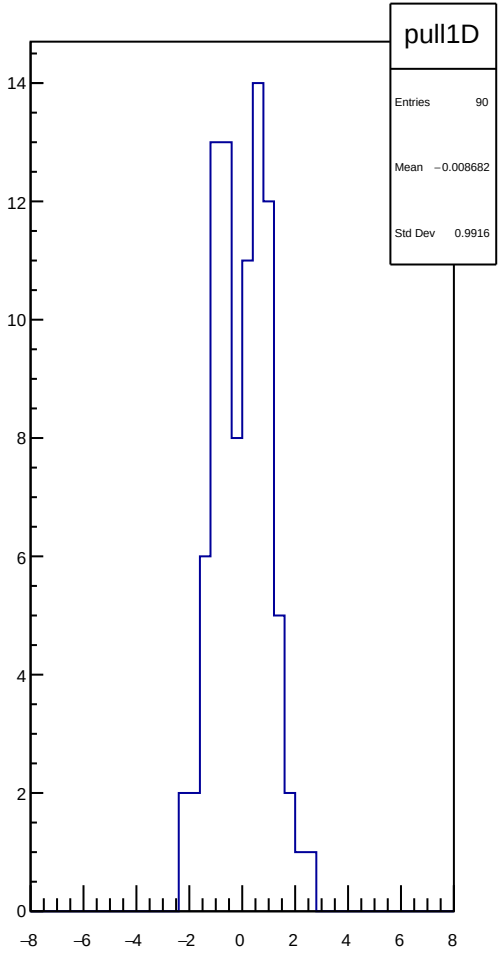

pull1D
Entries 90
Mean 0.005246
Std Dev 0.9337
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

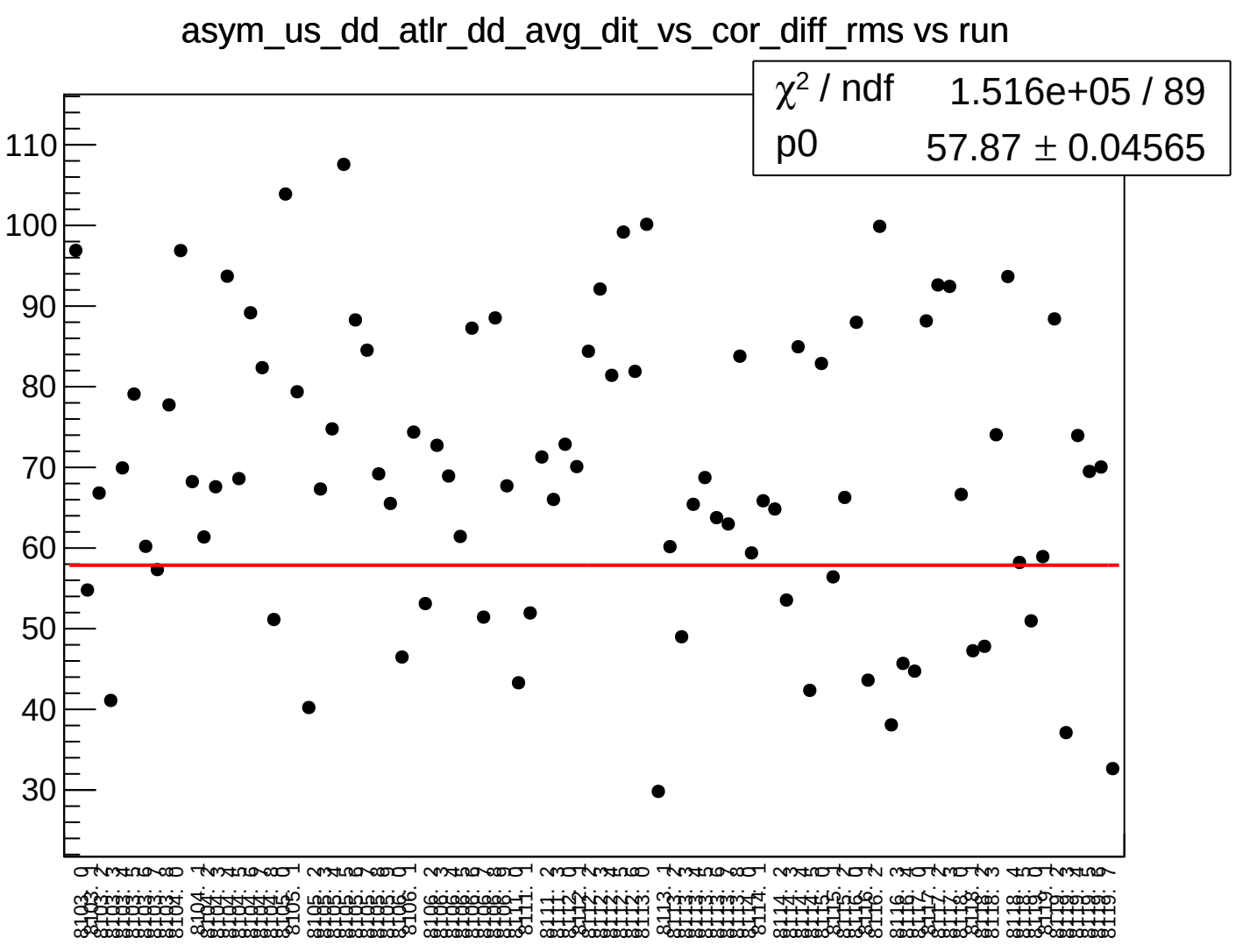

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1435 / 89
p0 2974 ± 2.244
3400
3300
3200
3100
3000
2900
2800

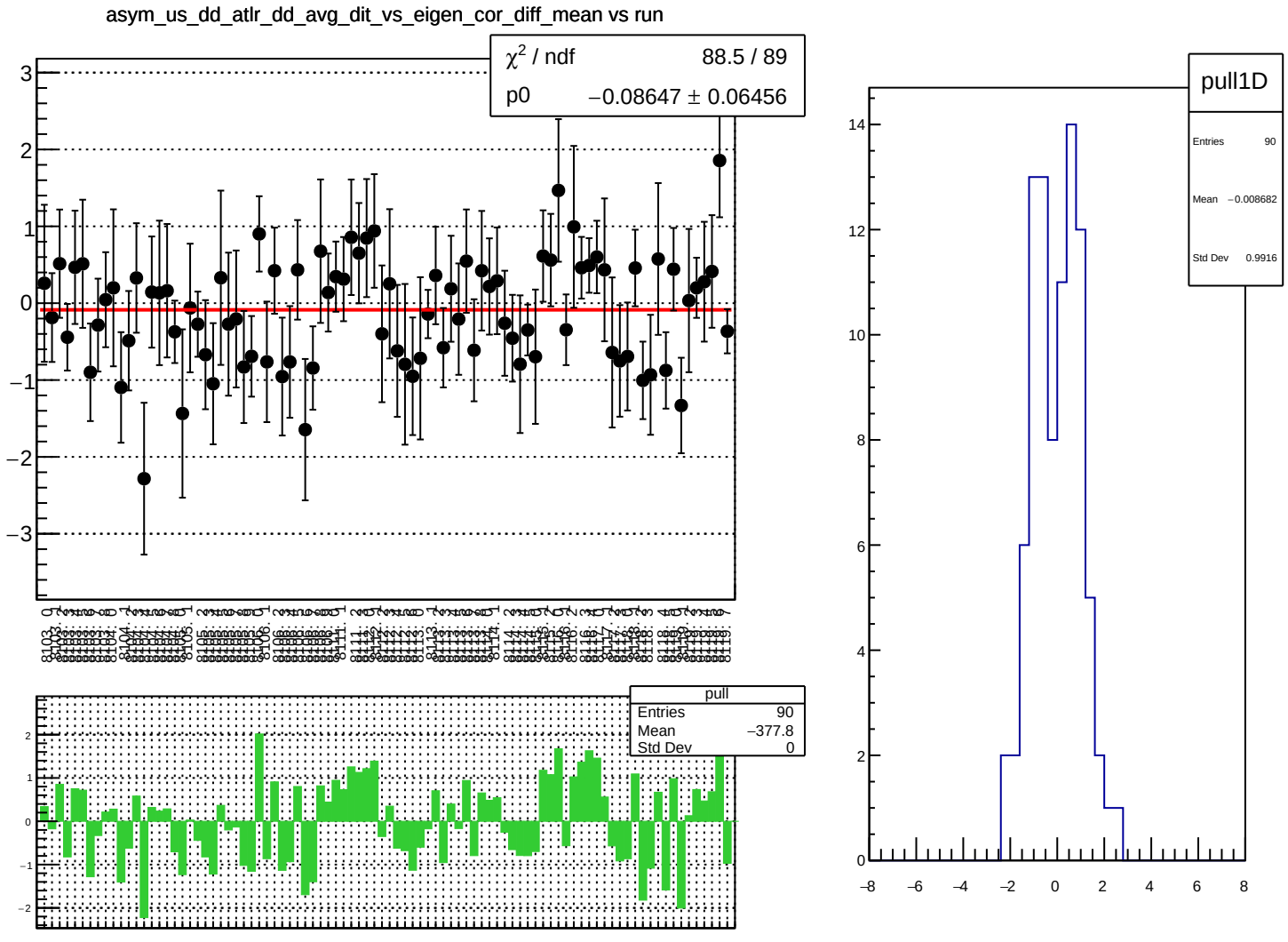

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.6 / 89
p0 8.055e–13 ± 3.5e–13
0.03
0.02
0.01
0
–0.01
–0.02
pull
Entries 90
Mean –47.94
Std Dev 0
2
1
0
–1
–2
pull1D
Entries 90
Mean –0.009642
Std Dev 0.9345
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

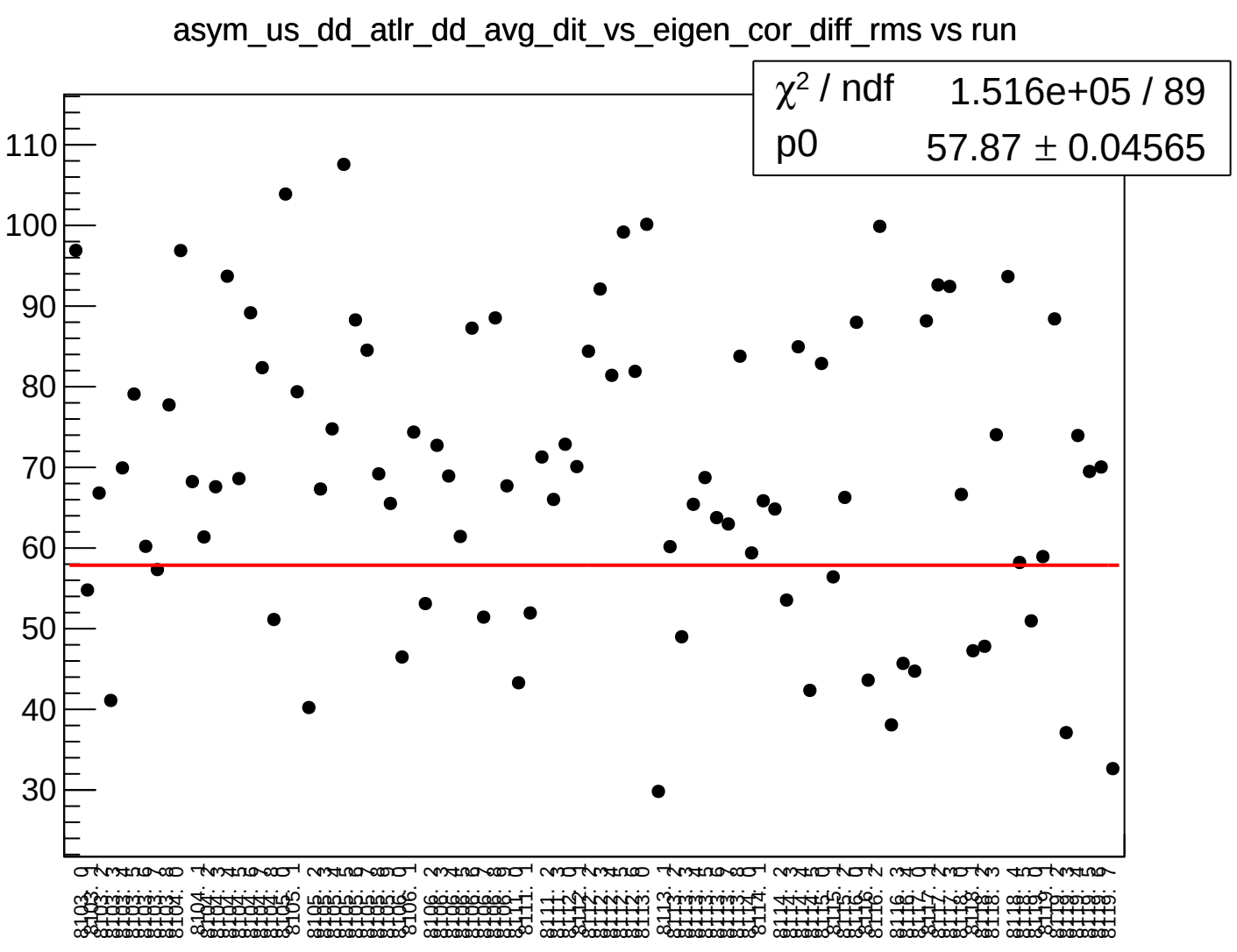

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.26e+05 / 89
p0 2.39e−10 ± 2.475e−13
0
0.2
0.4
0.6
0.8
1

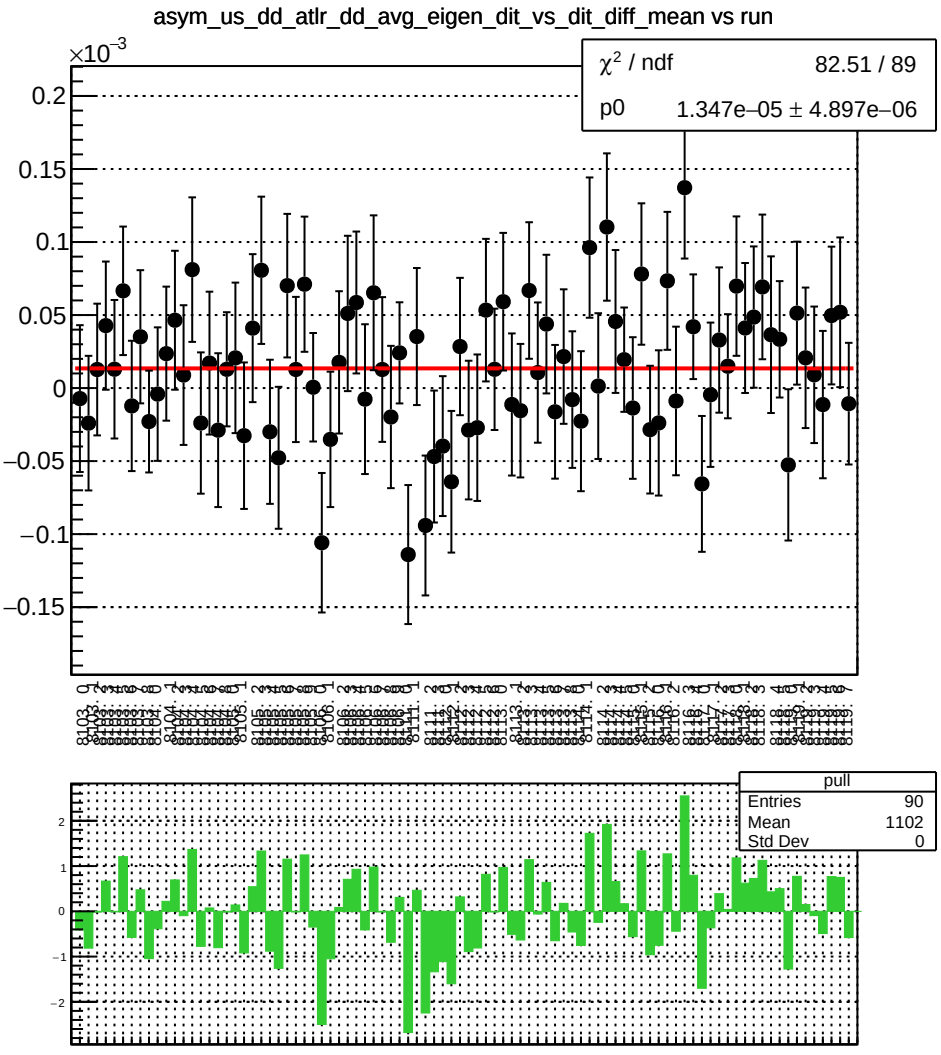

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.5 / 89
p0 −0.08647 ± 0.06456
pull
Entries 90
Mean −377.8
Std Dev 0

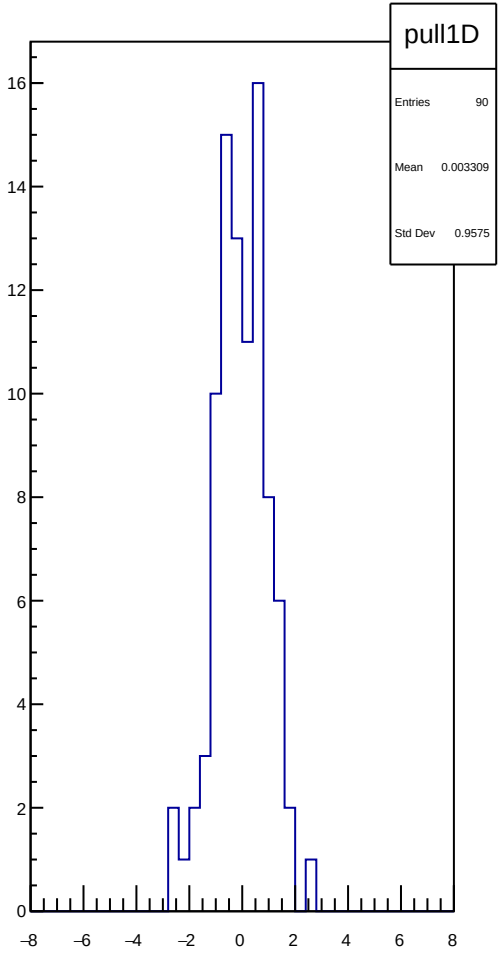

pull1D
Entries 90
Mean −0.008682
Std Dev 0.9916

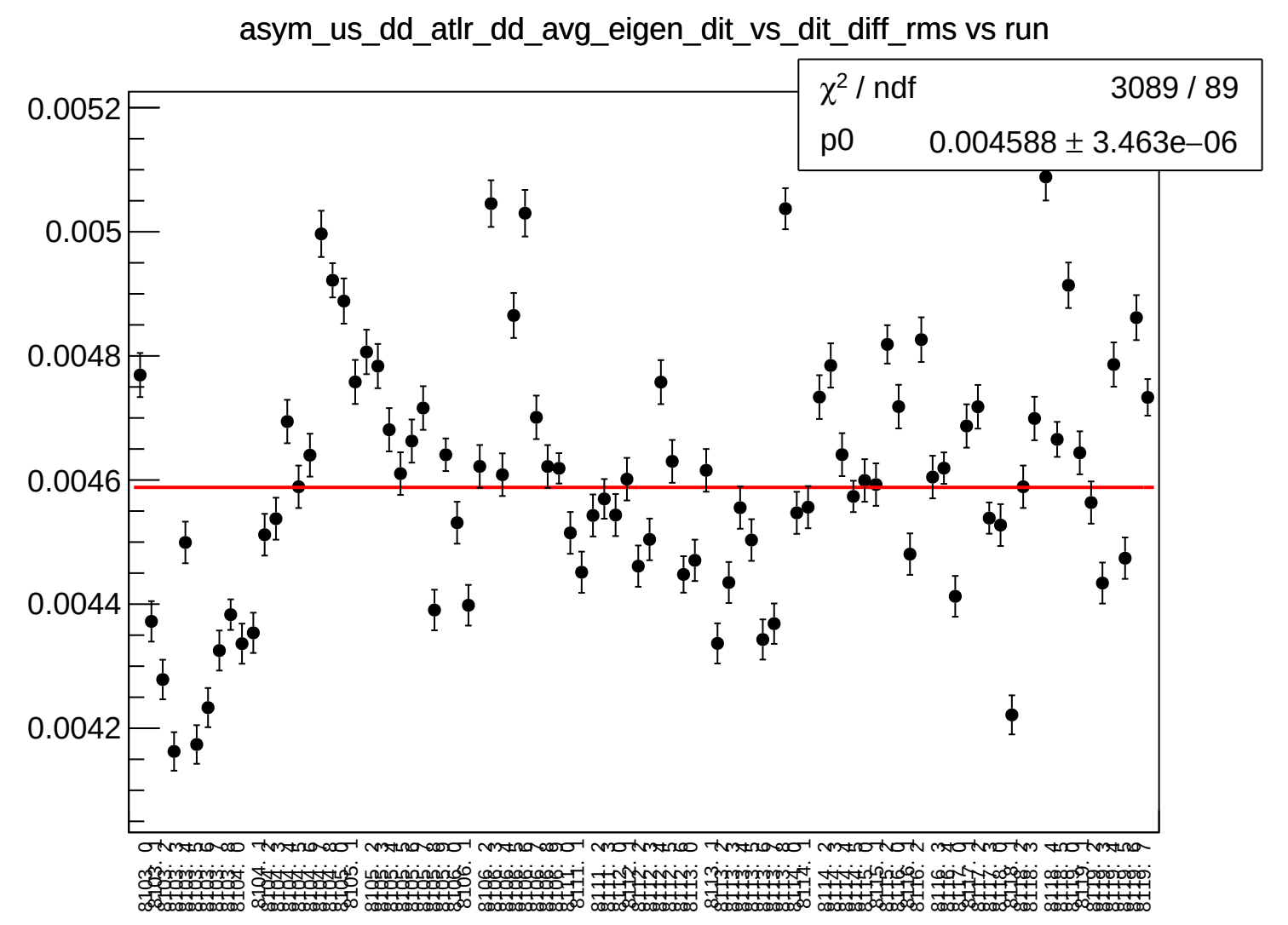

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.516e+05 / 89
p0 57.87 ± 0.04565
110
100
90
80
70
60
50
40
30

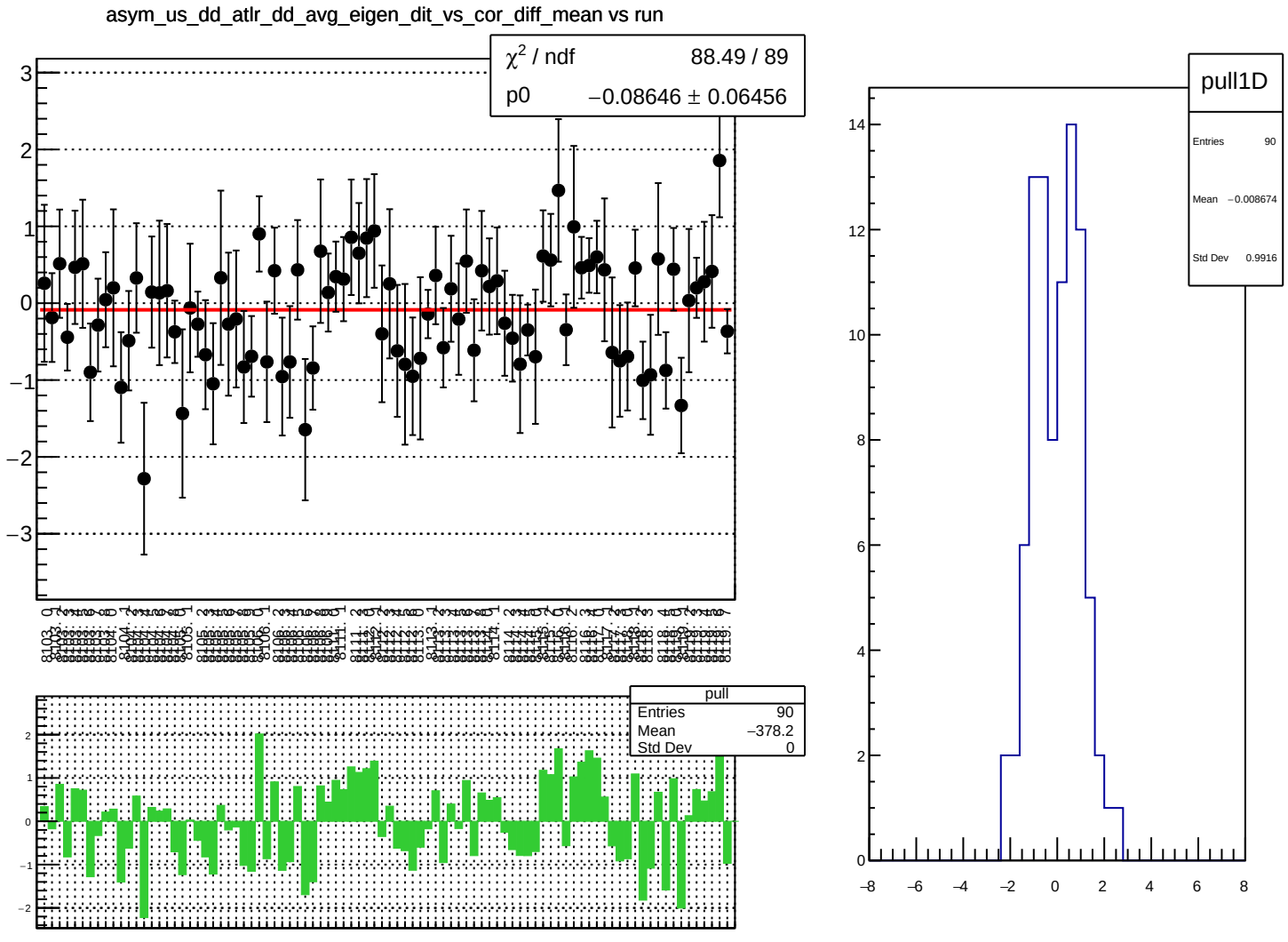

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.5 / 89
p0 −0.08647 ± 0.06456
pull
Entries 90
Mean −377.8
Std Dev 0
pull1D
Entries 90
Mean −0.008682
Std Dev 0.9916

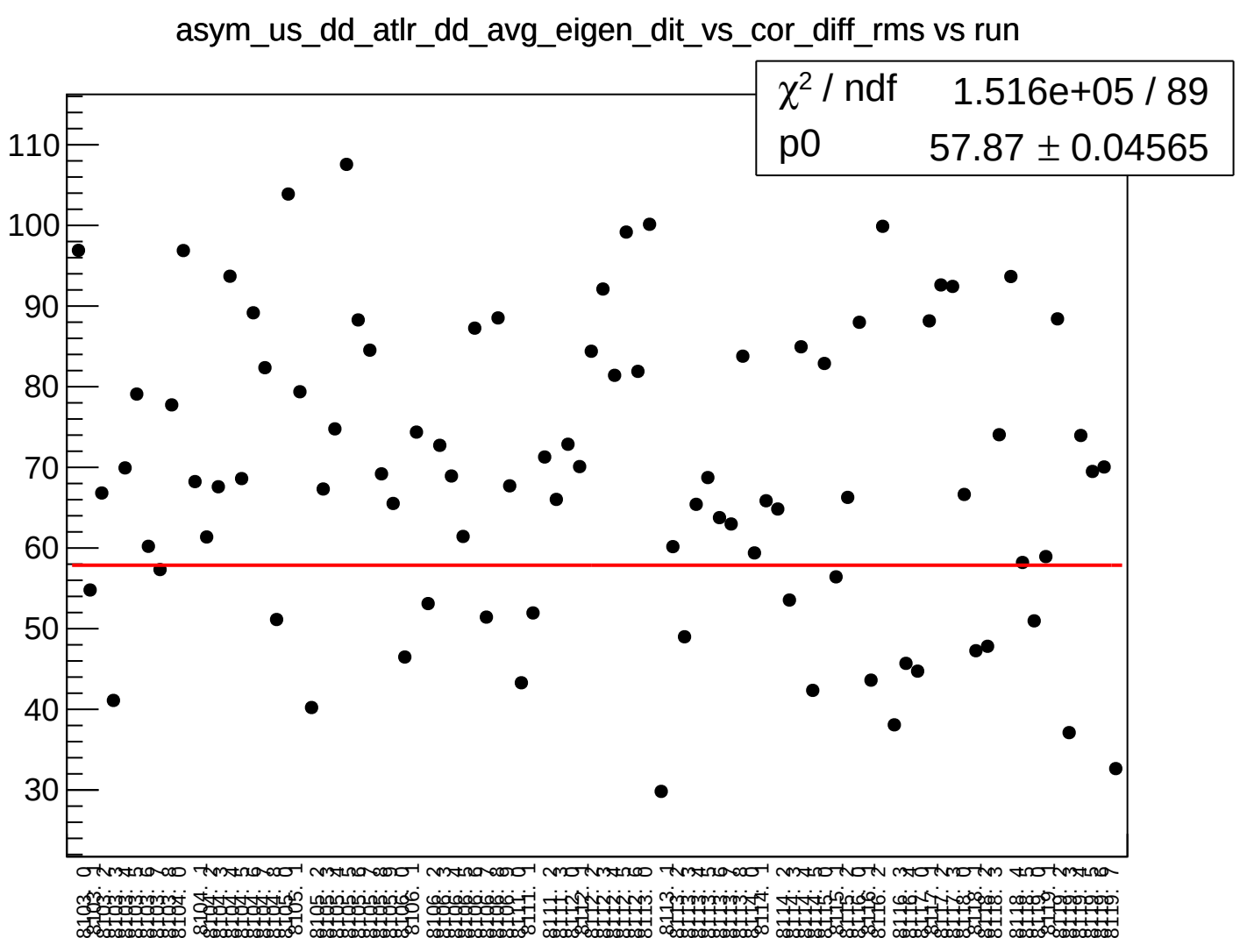

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.516e+05 / 89
p0 57.87 ± 0.04565
110
100
90
80
70
60
50
40
30

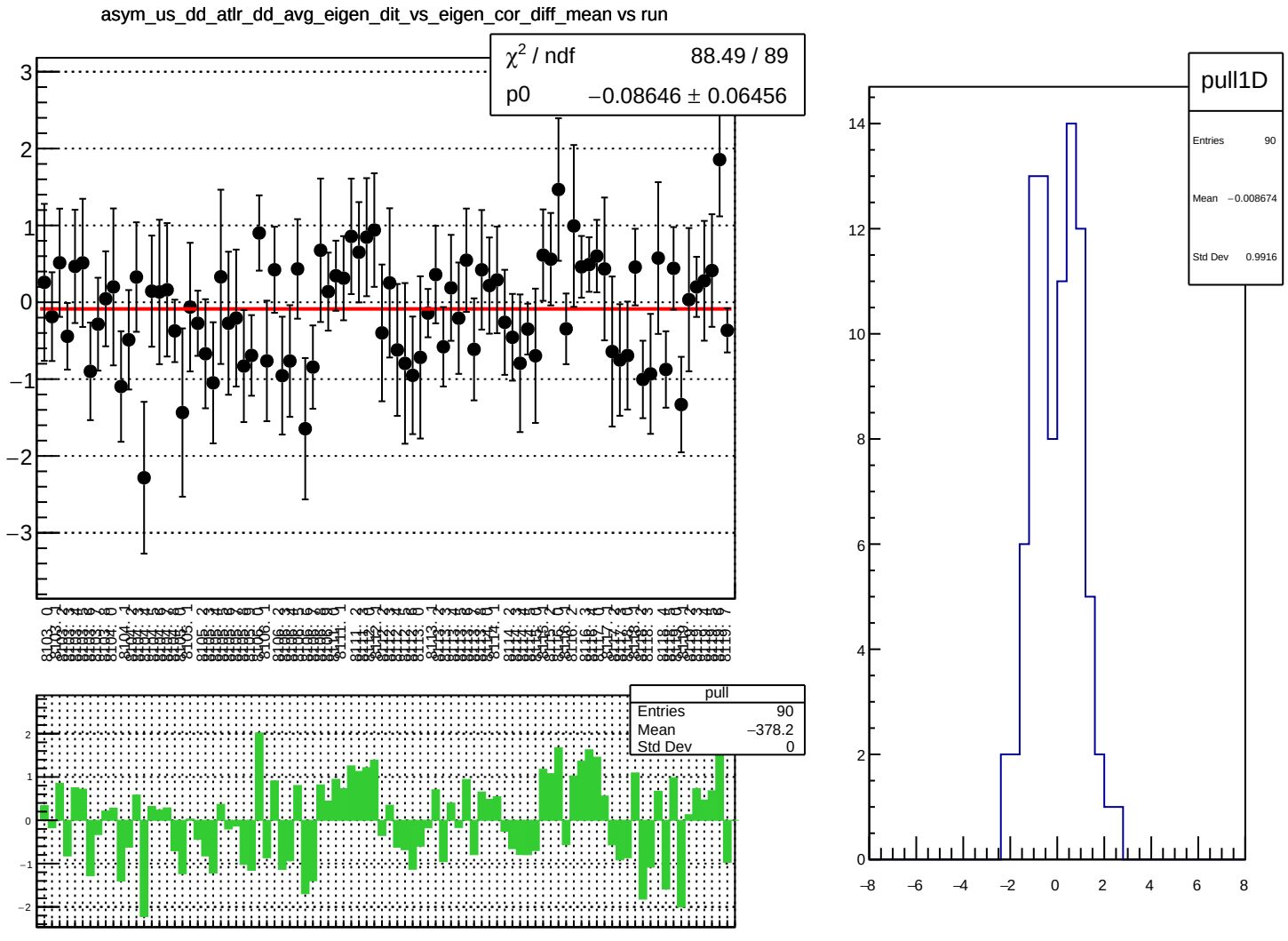

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.51 / 89
p0 1.347e−05 ± 4.897e−06
pull
Entries 90
Mean 1102
Std Dev 0

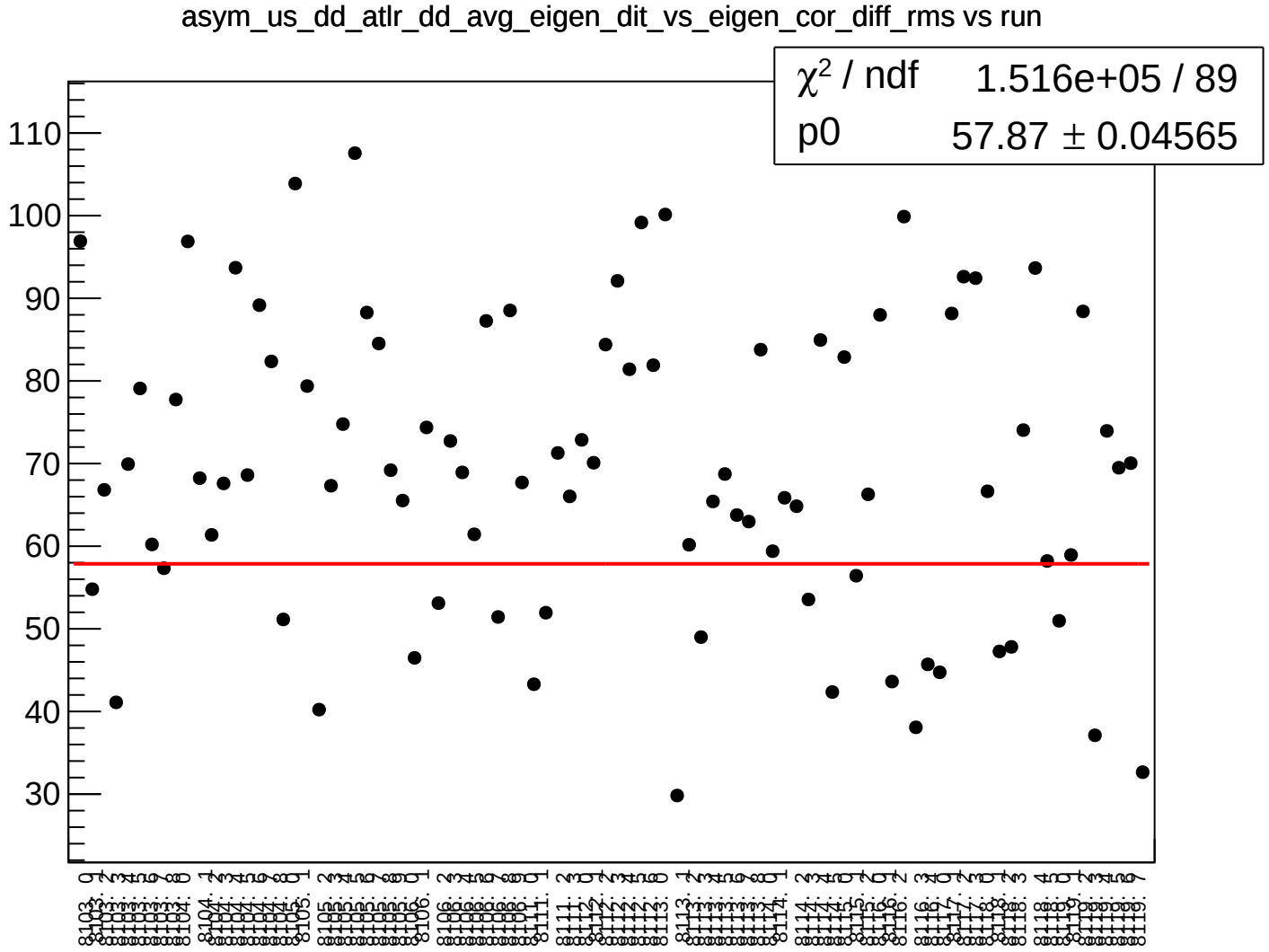

pull1D
Entries 90
Mean 0.003309
Std Dev 0.9575

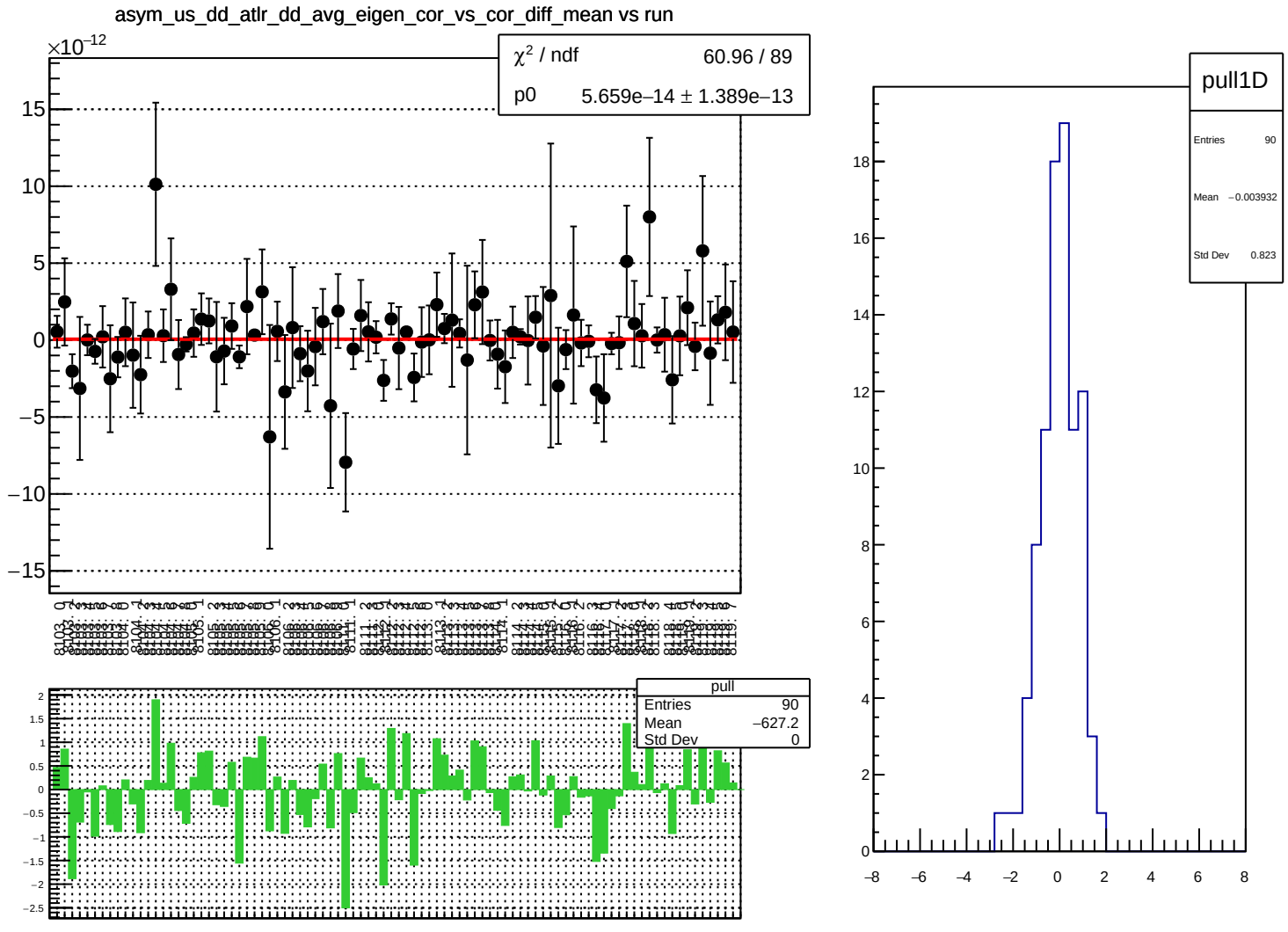

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3089 / 89
p0 0.004588 ± 3.463e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

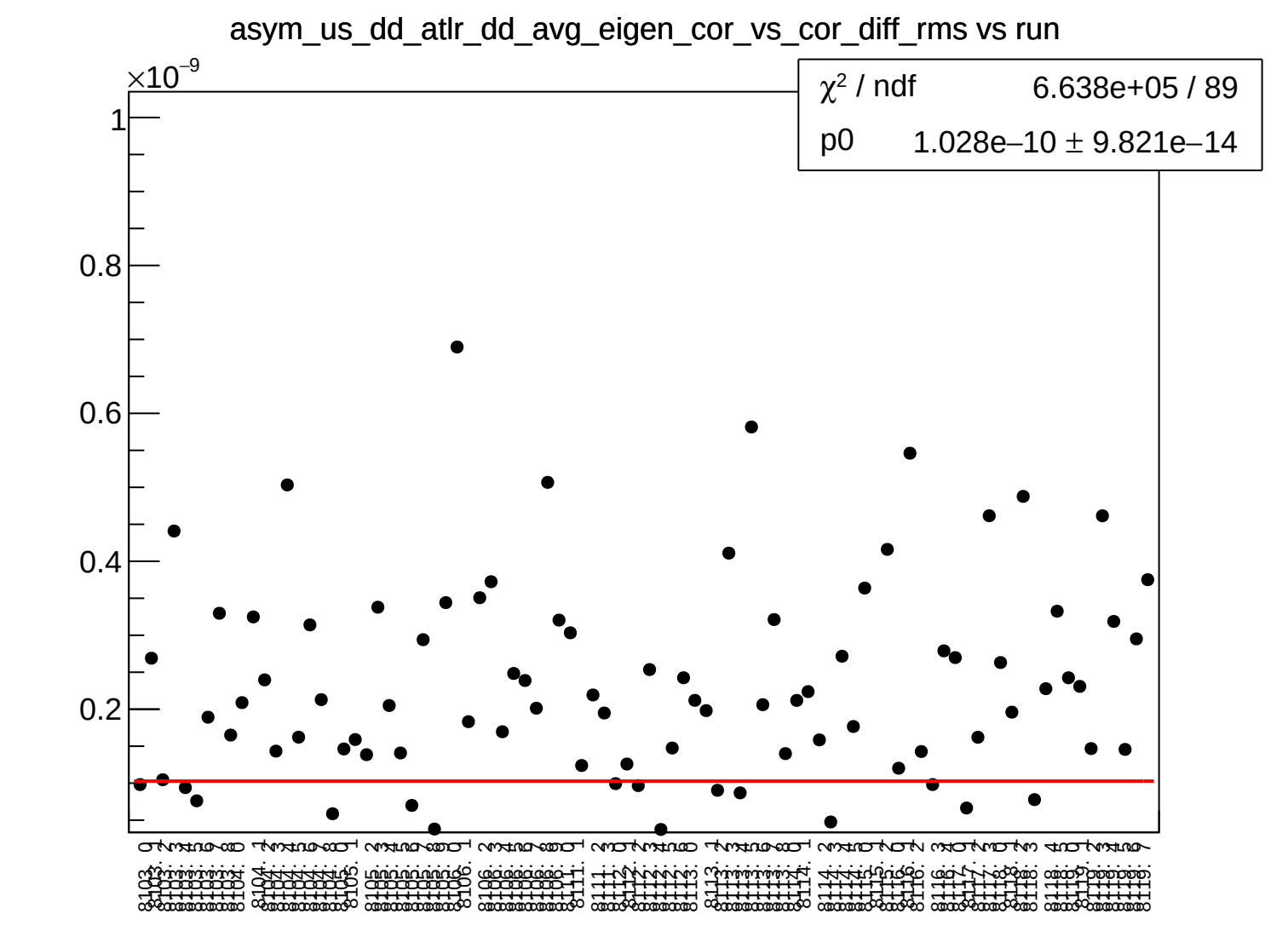

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.49 / 89
p0 −0.08646 ± 0.06456
pull
Entries 90
Mean −378.2
Std Dev 0
pull1D
Entries 90
Mean −0.008674
Std Dev 0.9916

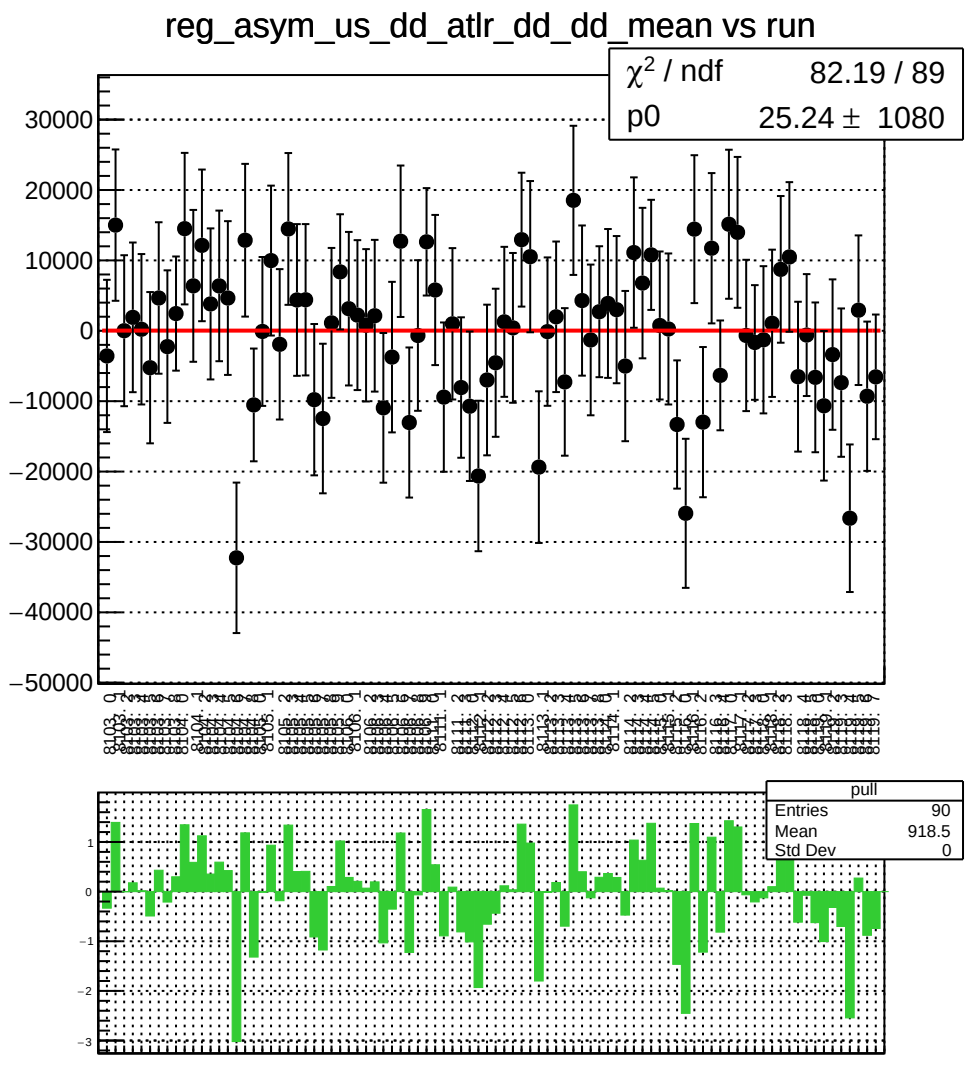

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.516e+05 / 89
p0 57.87 ± 0.04565
110
100
90
80
70
60
50
40
30

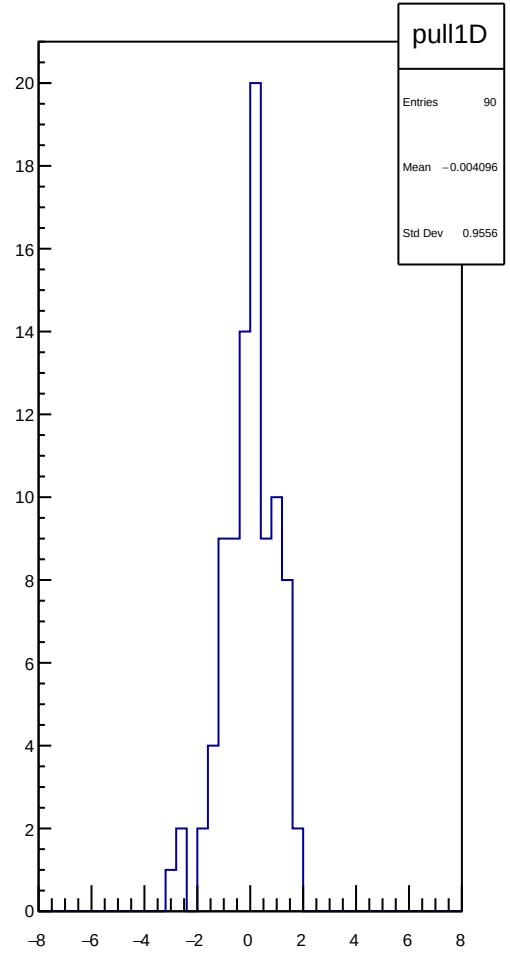

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.49 / 89
p0 −0.08646 ± 0.06456
pull
Entries 90
Mean −378.2
Std Dev 0
pull1D
Entries 90
Mean −0.008674
Std Dev 0.9916

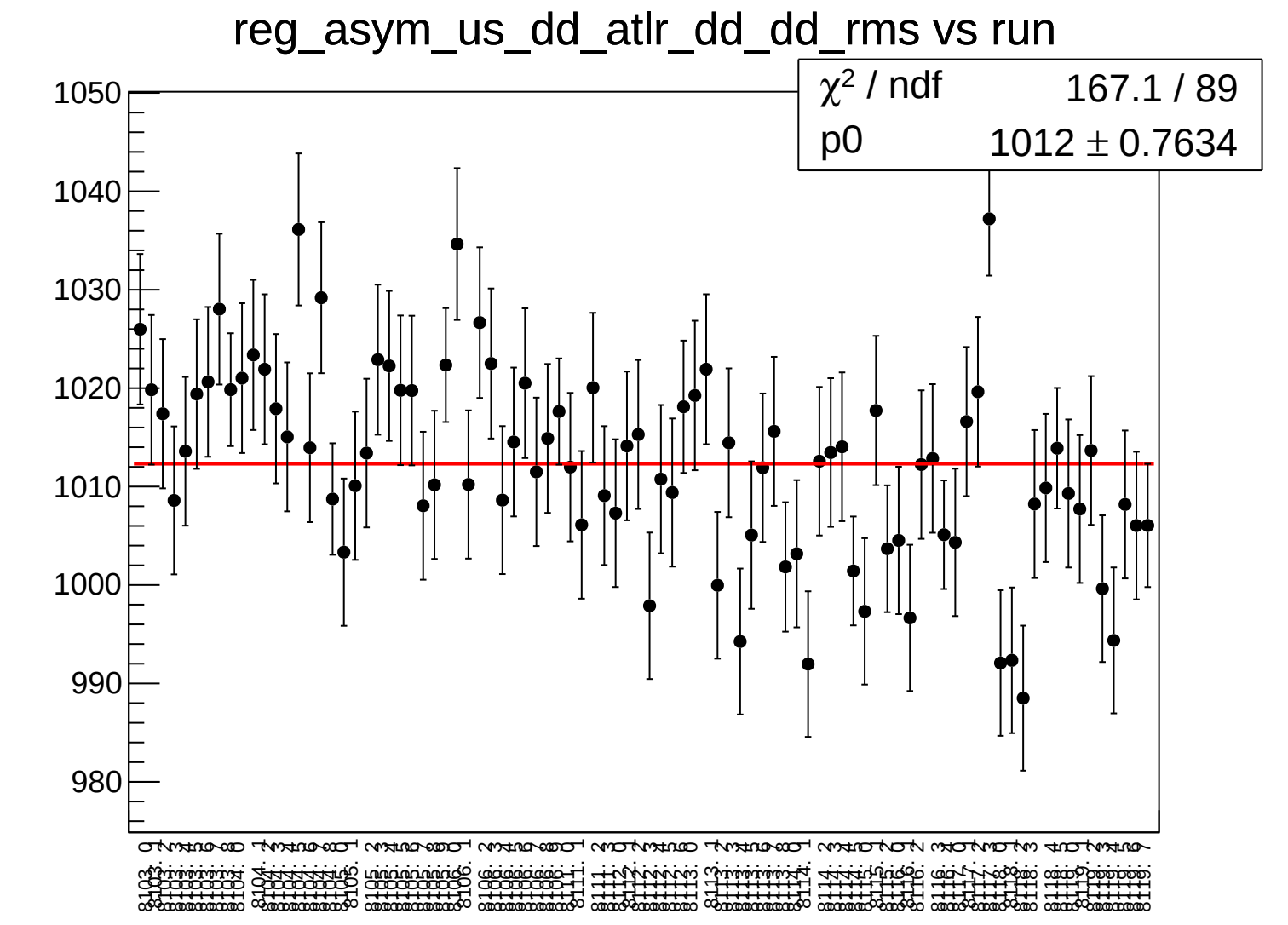

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.516e+05 / 89
p0 57.87 ± 0.04565
110
100
90
80
70
60
50
40
30

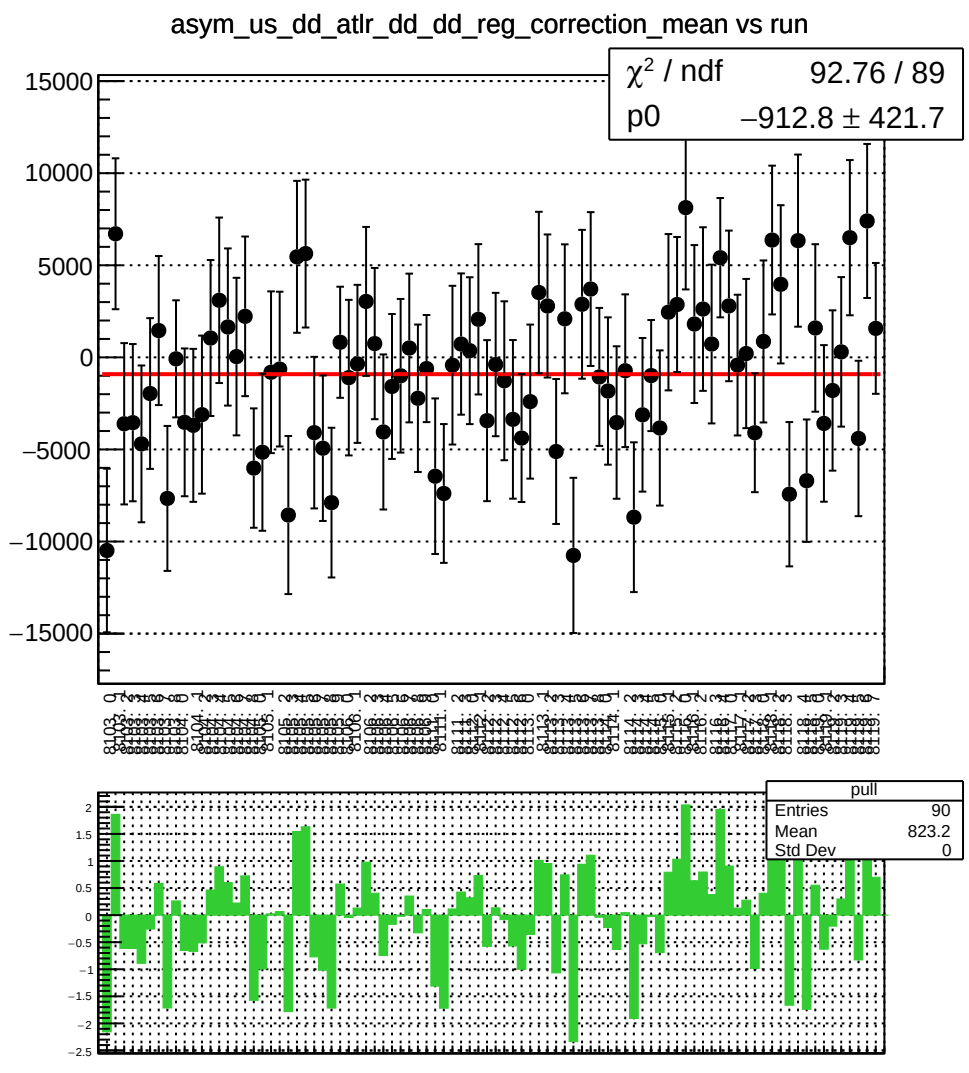

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 60.96 / 89
p0 5.659e−14 ± 1.389e−13
pull
Entries 90
Mean −627.2
Std Dev 0
pull1D
Entries 90
Mean −0.003932
Std Dev 0.823

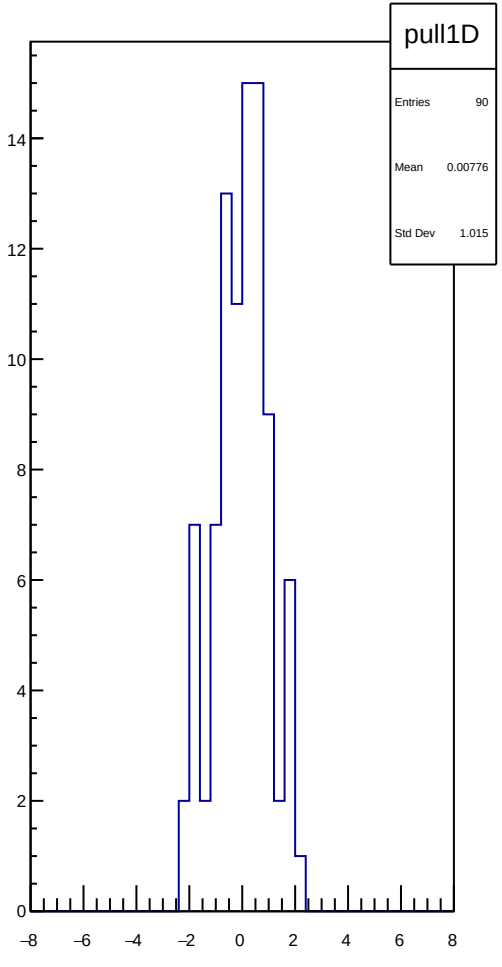

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.638e+05 / 89
p0 1.028e−10 ± 9.821e−14
1
0.8
0.6
0.4
0.2

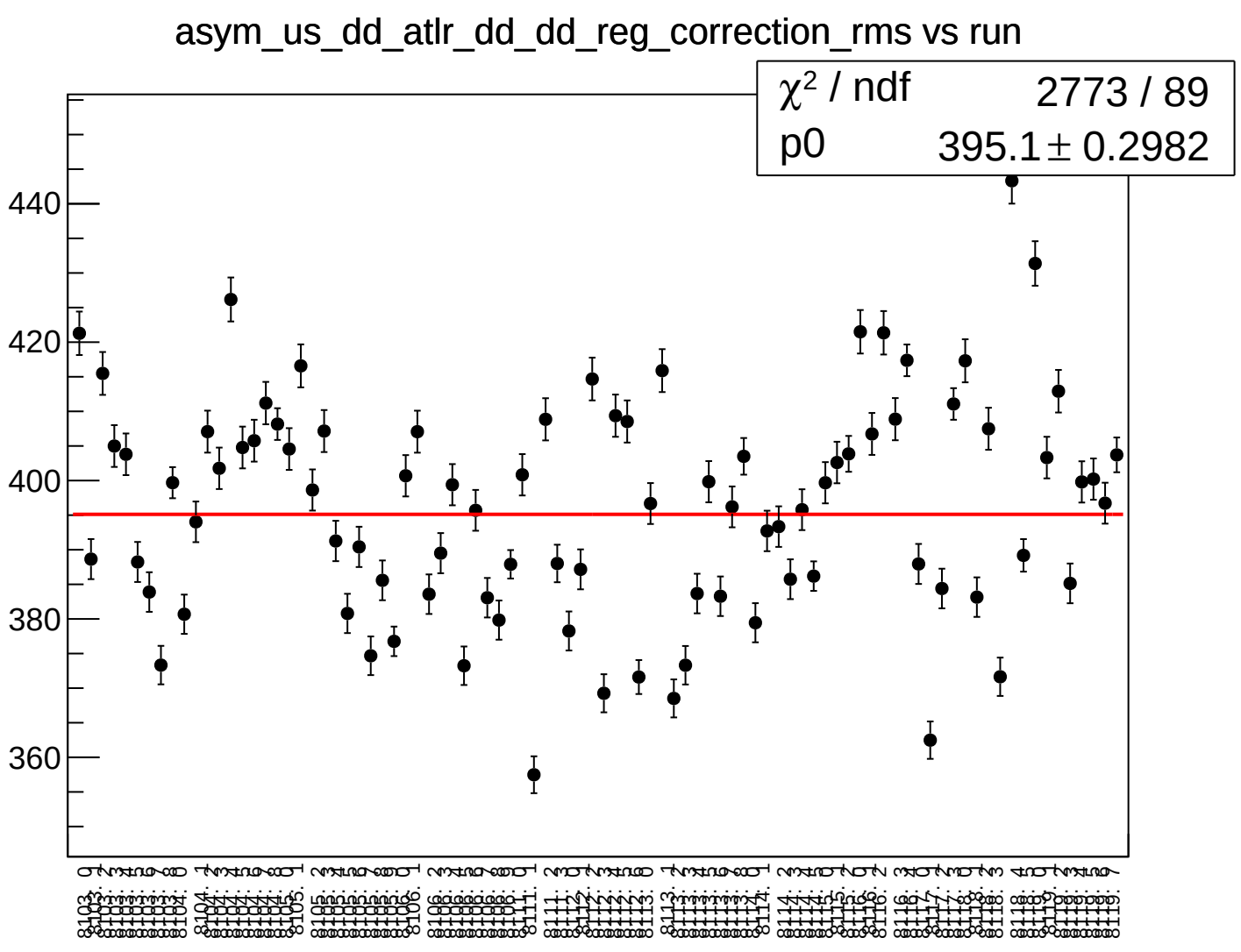

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 82.19 / 89
p0 25.24 ± 1080
pull
Entries 90
Mean 918.5
Std Dev 0

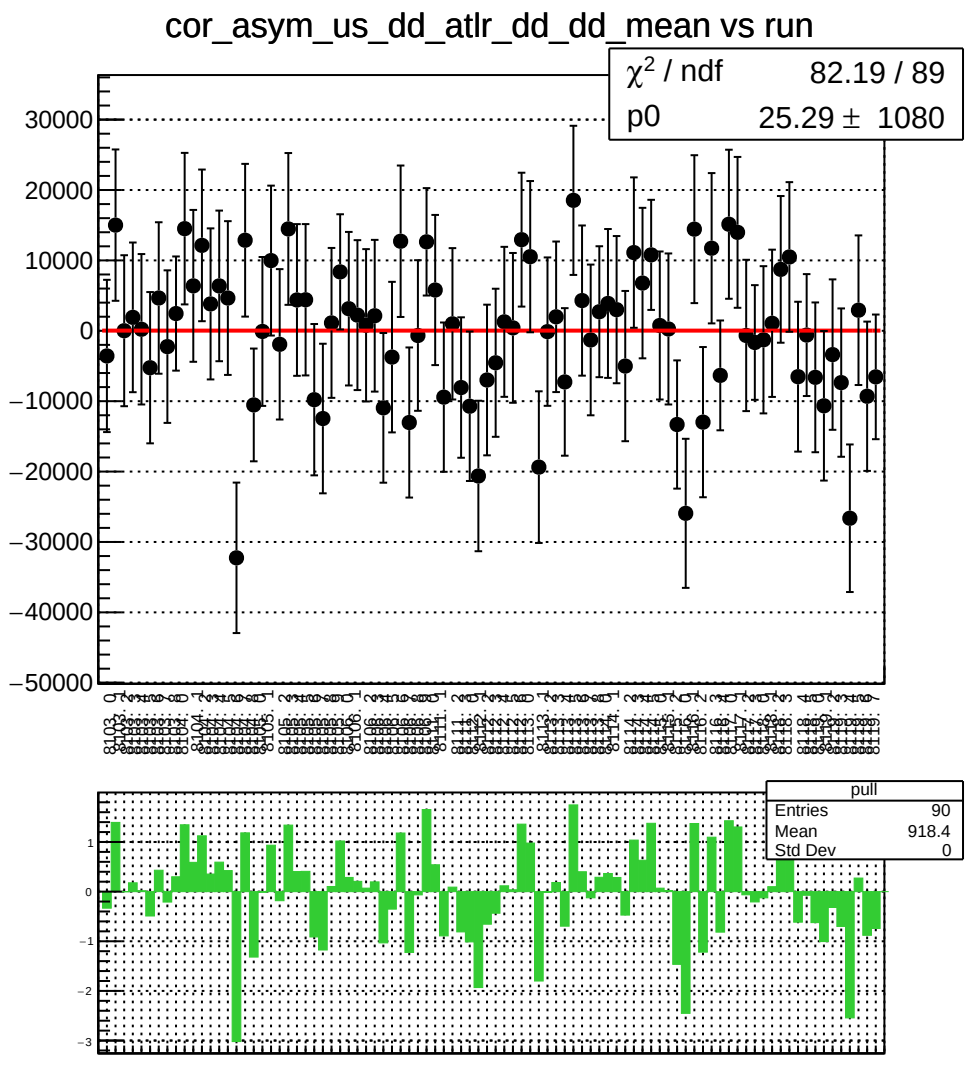

pull1D
Entries 90
Mean −0.004096
Std Dev 0.9556

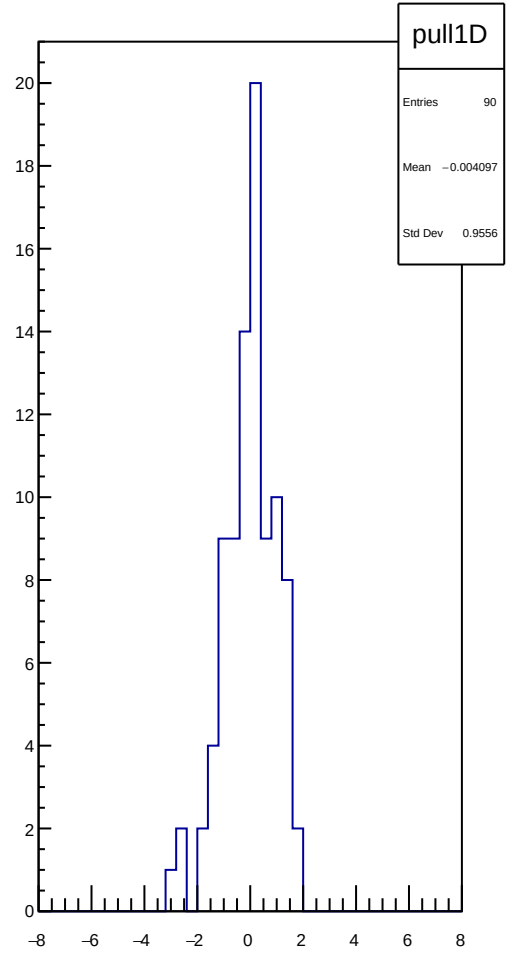

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 167.1 / 89
p0 1012 ± 0.7634
1050
1040
1030
1020
1010
1000
990
980

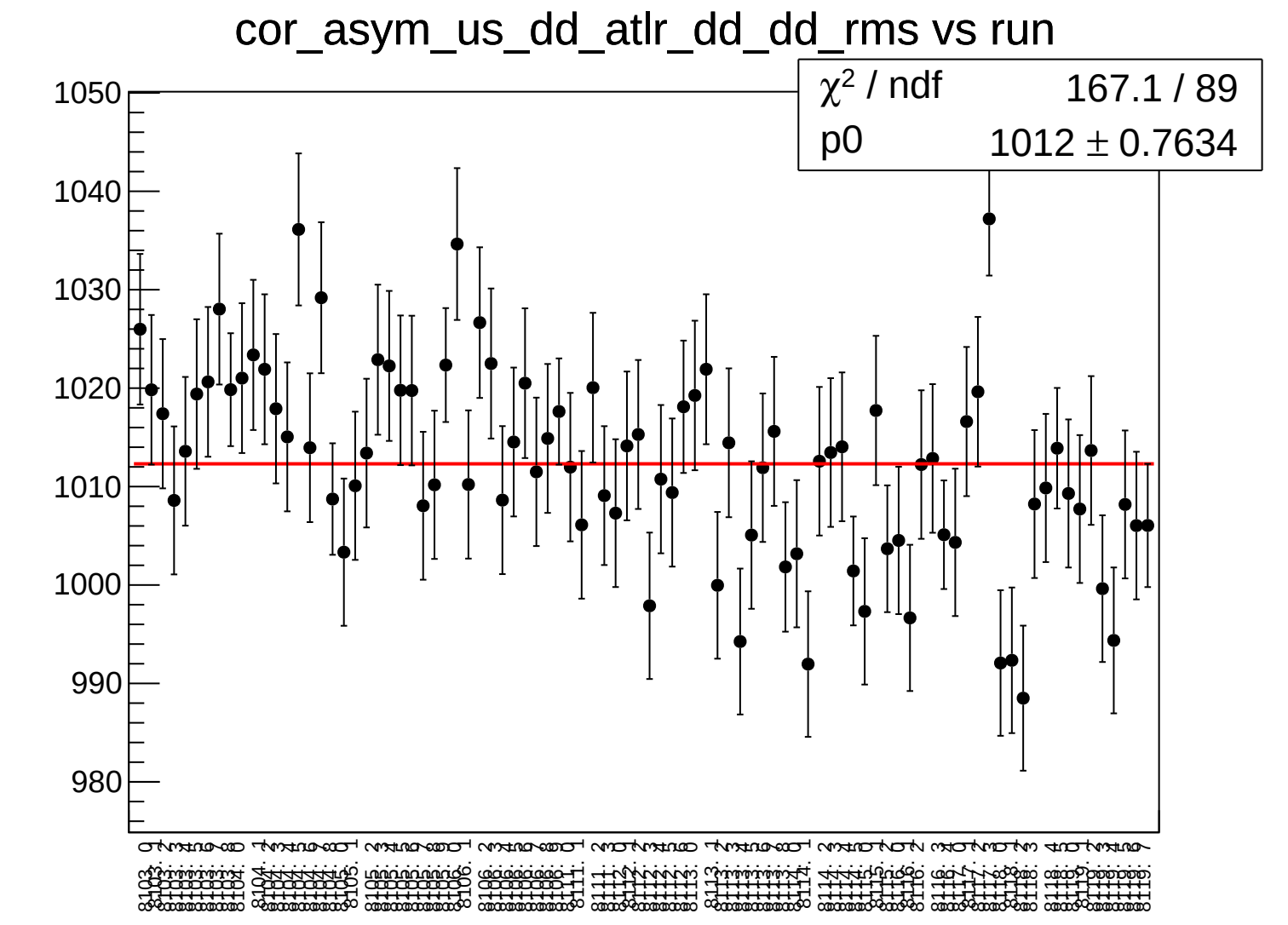

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 92.76 / 89
p0 −912.8 ± 421.7
pull
Entries 90
Mean 823.2
Std Dev 0

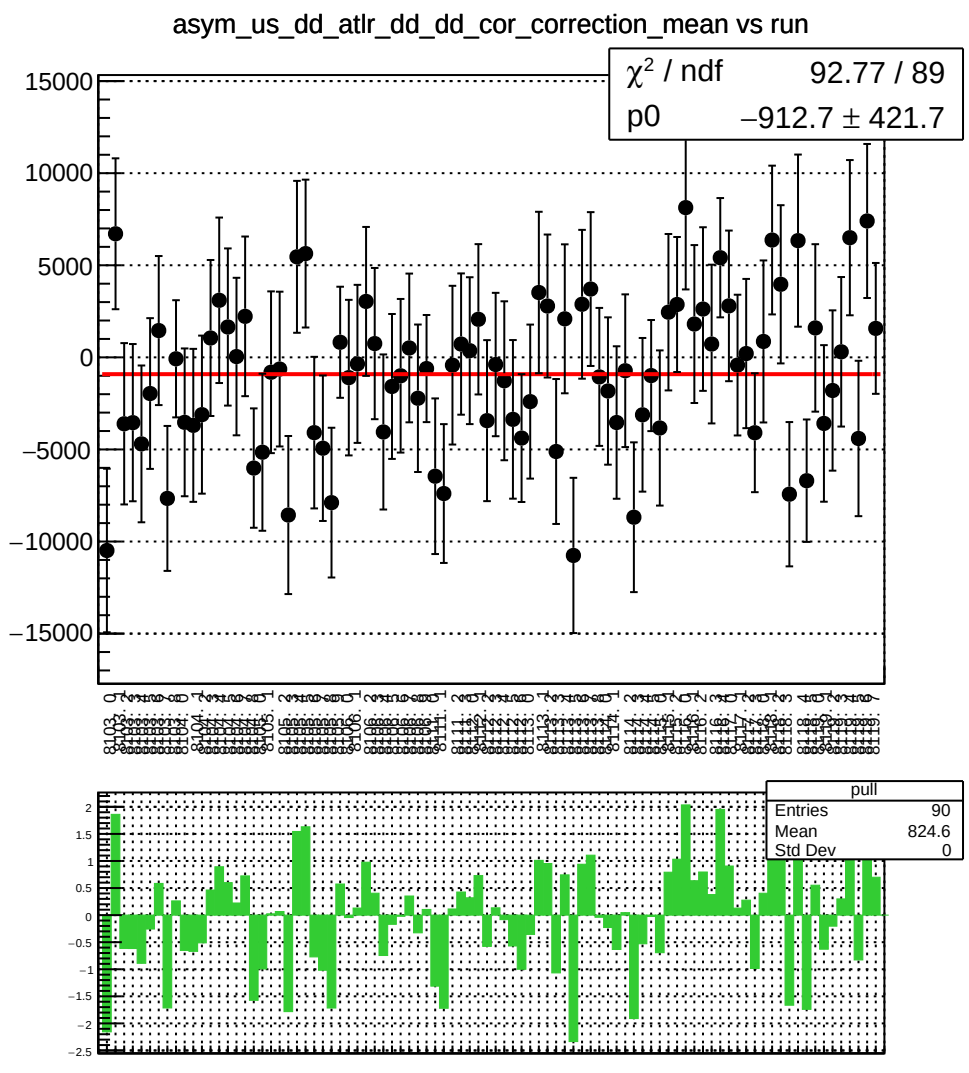

pull1D
Entries 90
Mean 0.00776
Std Dev 1.015

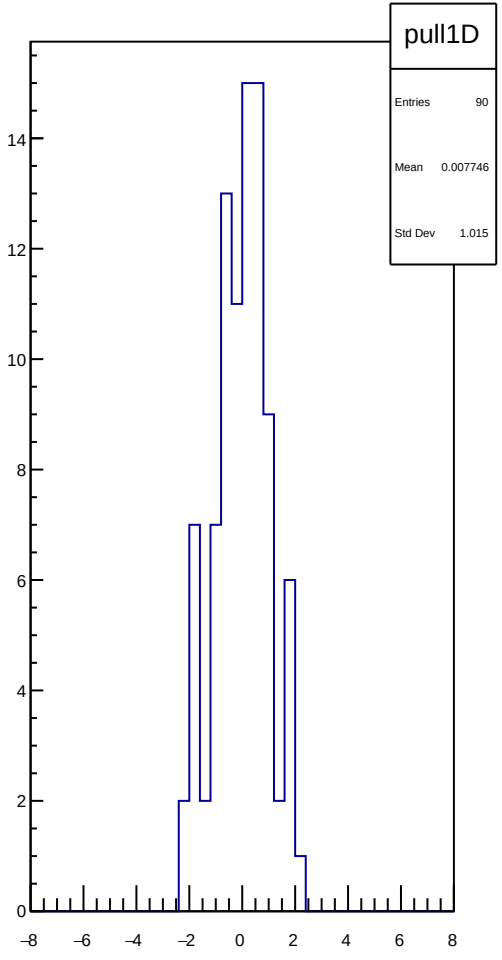

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2773 / 89
p0 395.1 ± 0.2982
440
420
400
380
360

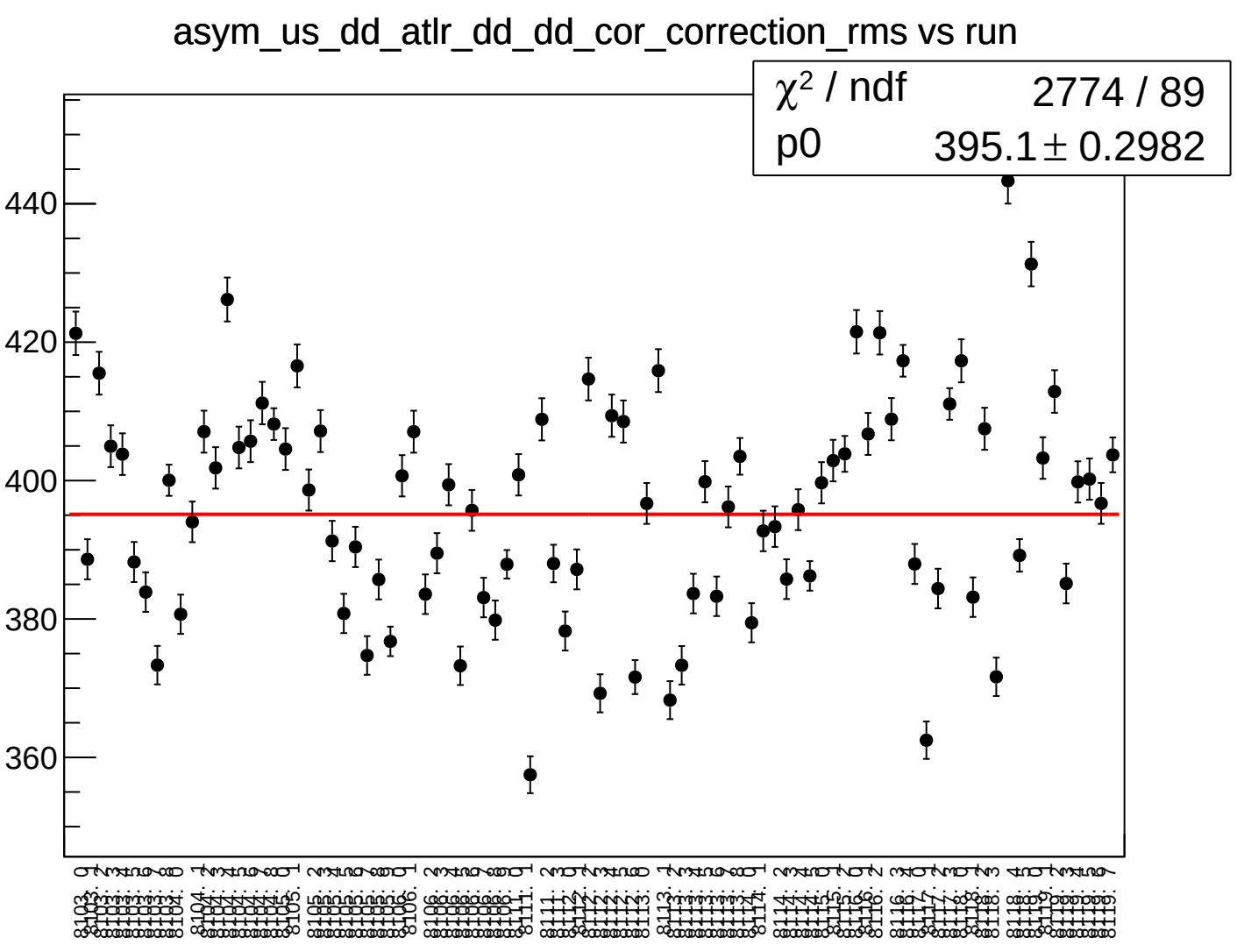

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 82.19 / 89
p0 25.29 ± 1080
pull
Entries 90
Mean 918.4
Std Dev 0

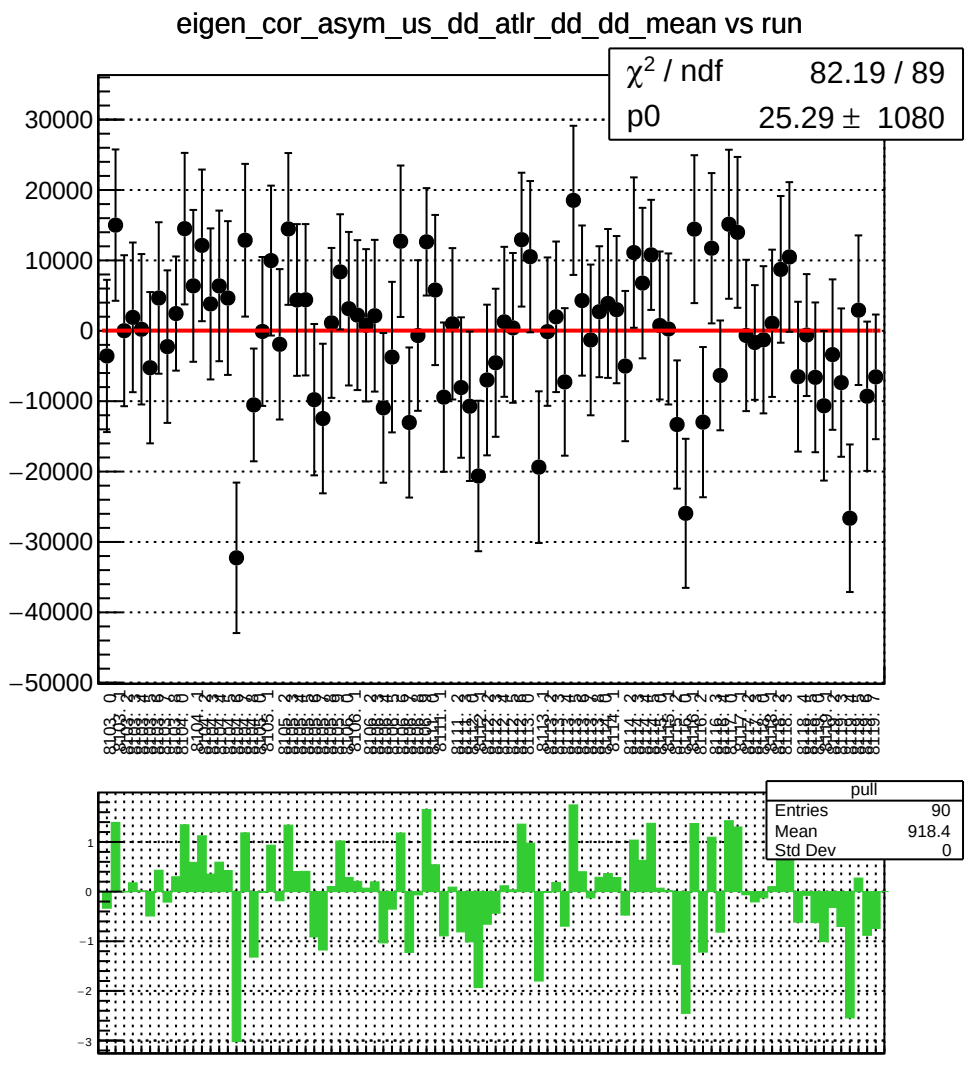

pull1D
Entries 90
Mean −0.004097
Std Dev 0.9556

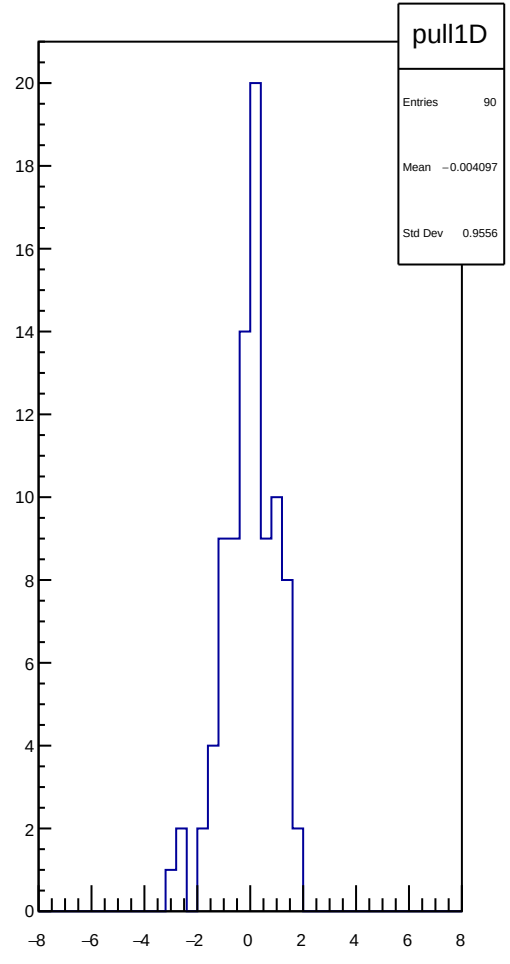

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 167.1 / 89
p0 1012 ± 0.7634
1050
1040
1030
1020
1010
1000
990
980

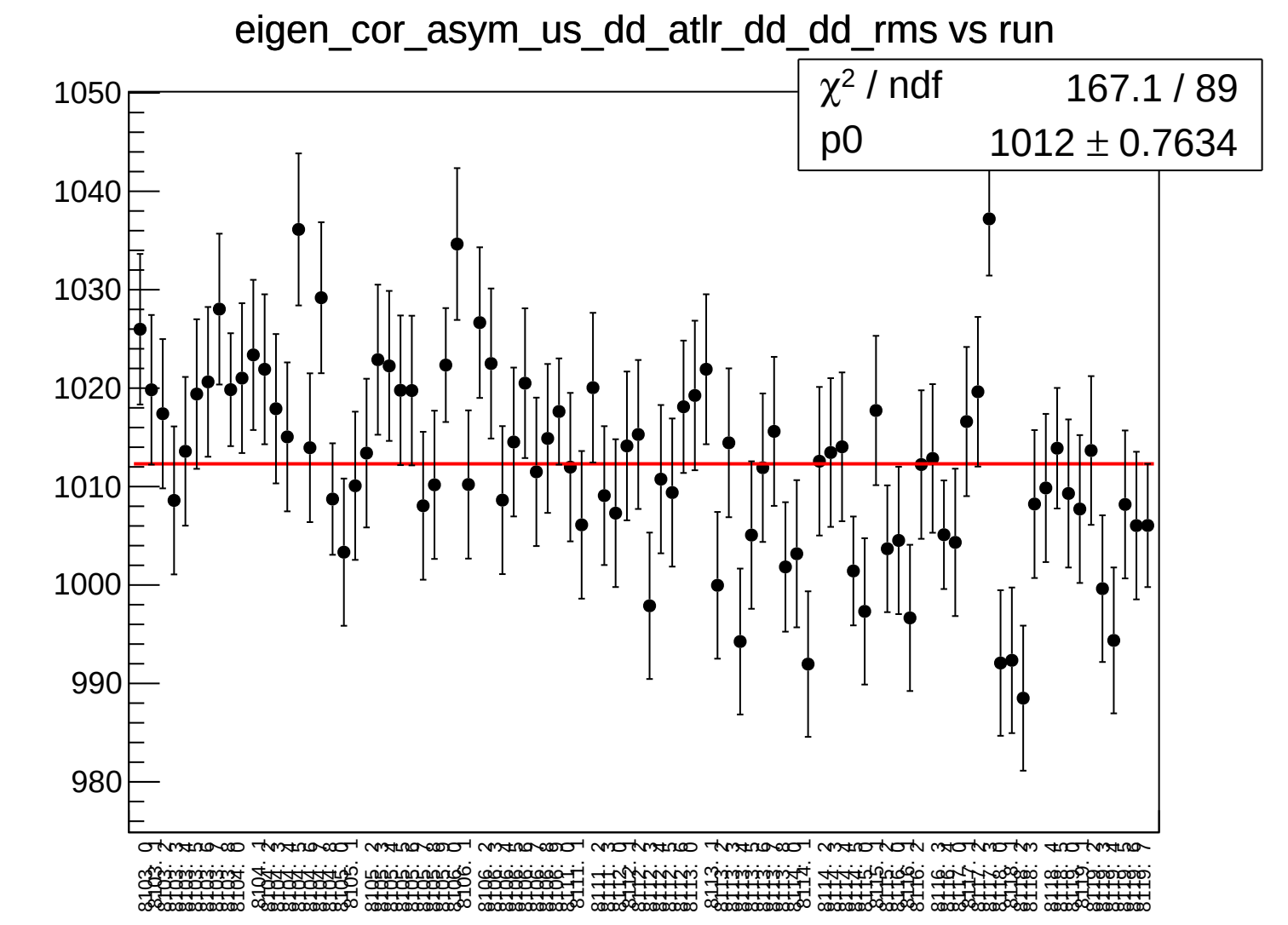

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 92.77 / 89
p0 −912.7 ± 421.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 824.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

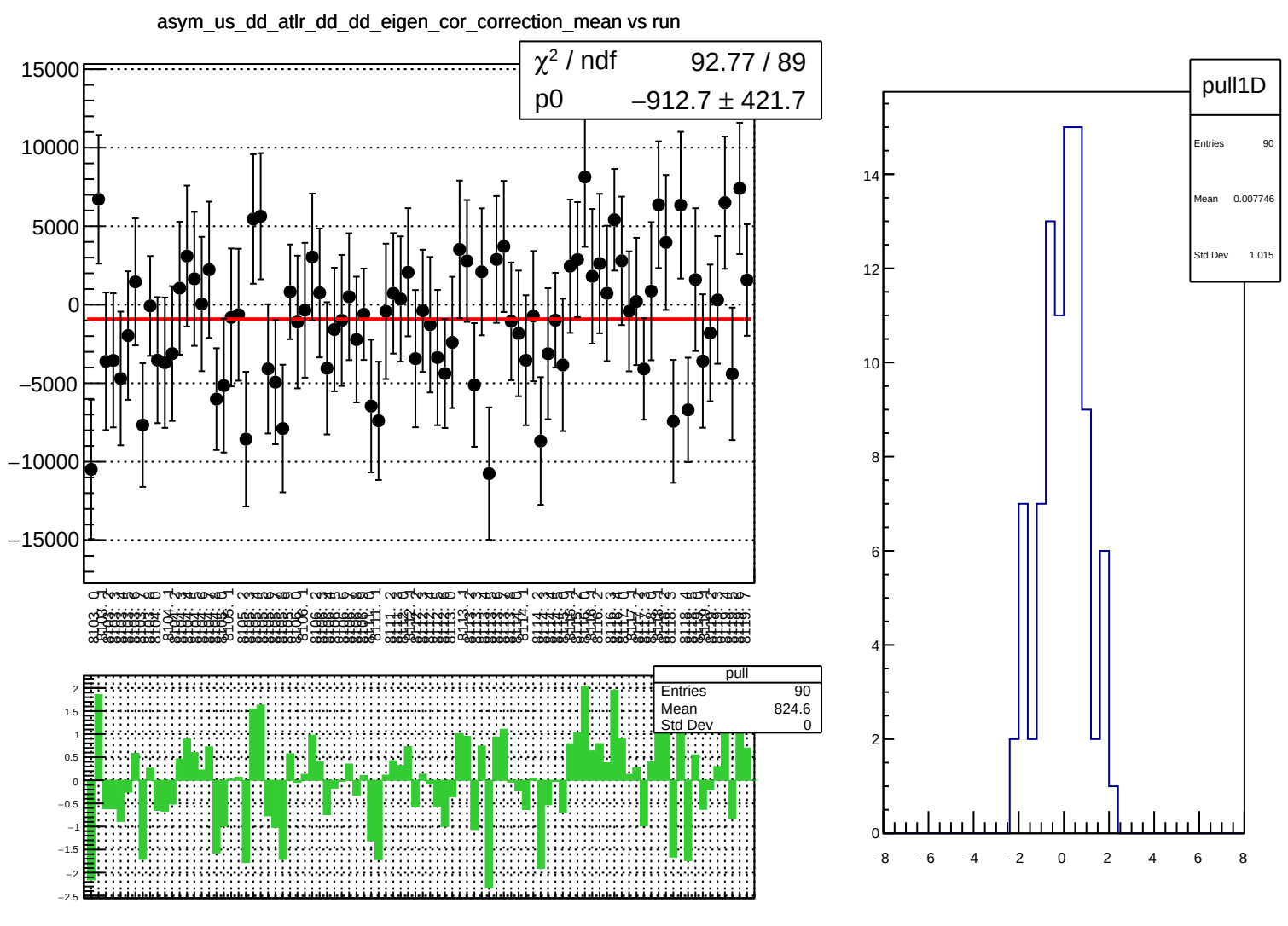

pull1D
Entries 90
Mean 0.007746
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

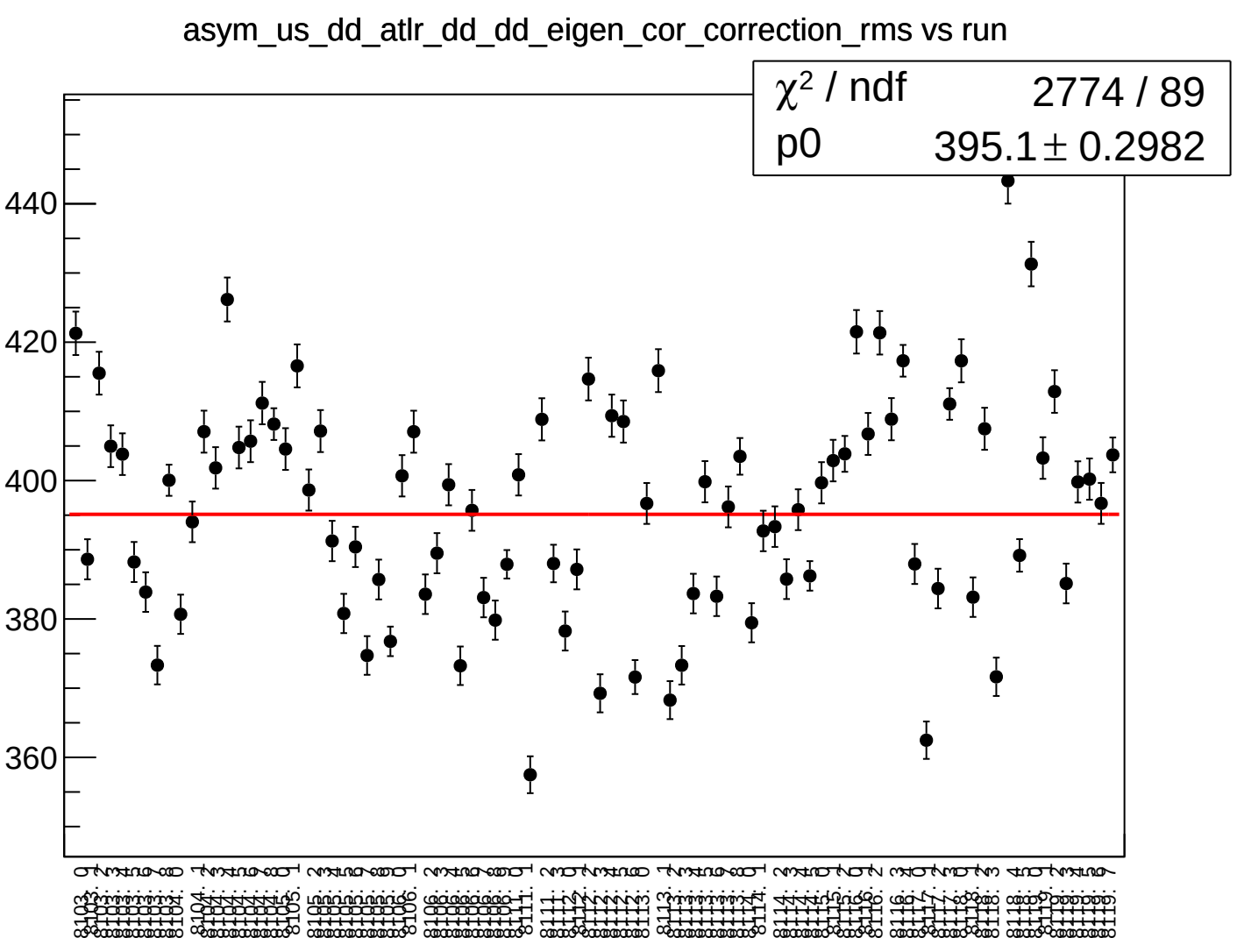

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2774 / 89
p0 395.1 ± 0.2982
440
420
400
380
360

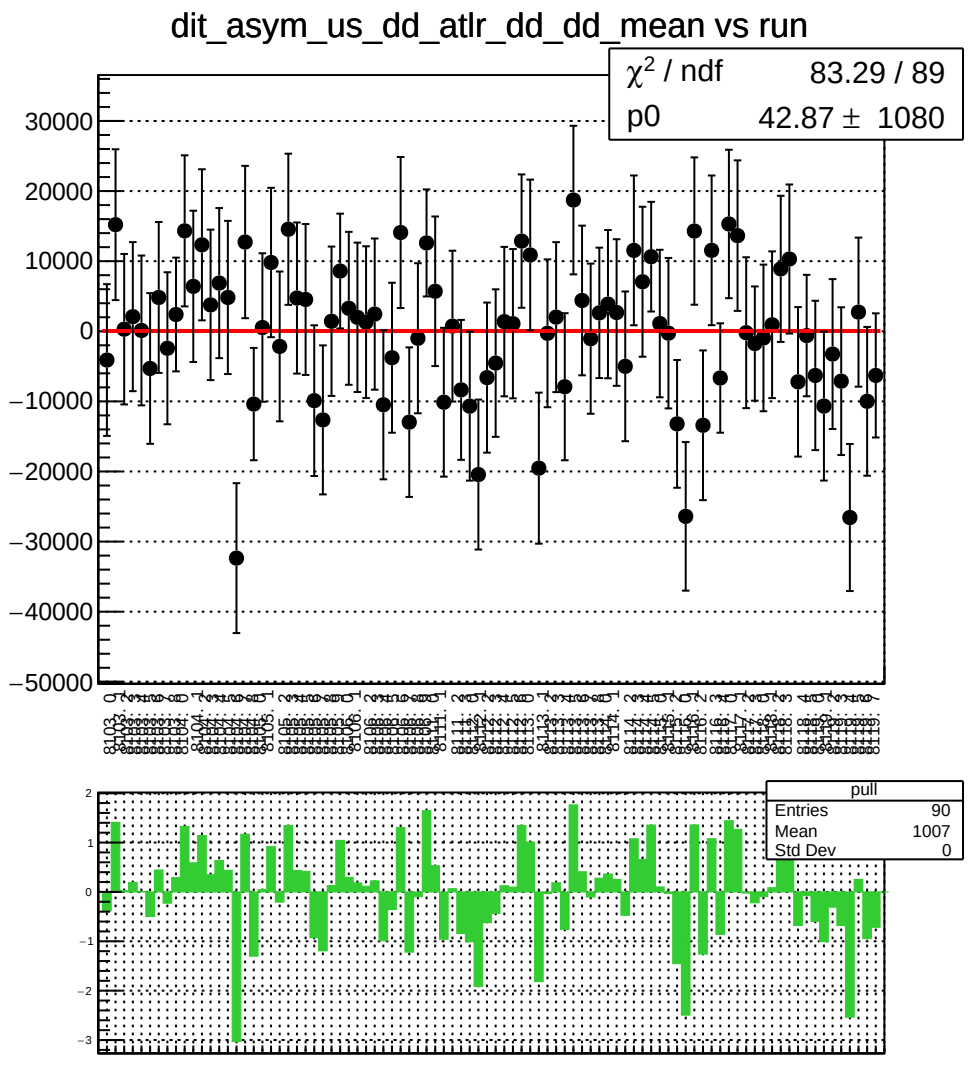

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 82.19 / 89
p0 25.29 ± 1080
pull
Entries 90
Mean 918.4
Std Dev 0

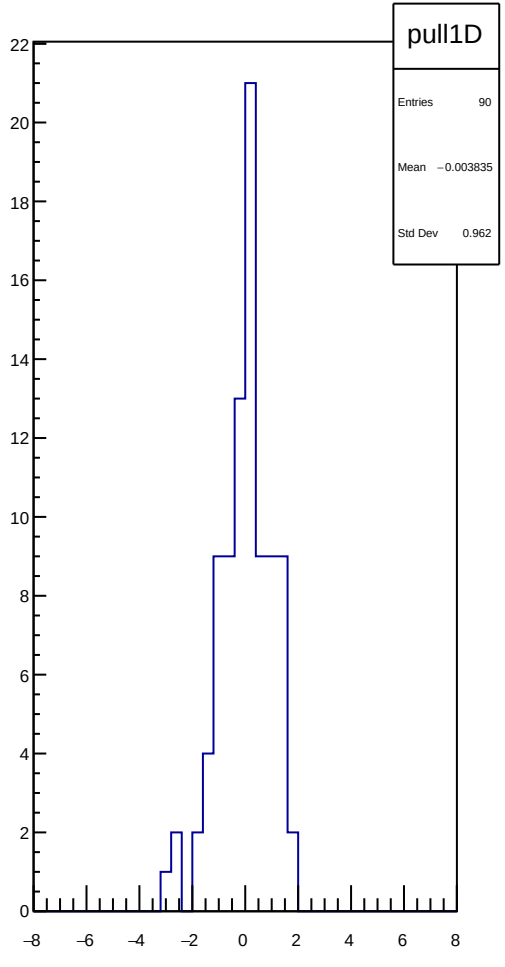

pull1D
Entries 90
Mean −0.004097
Std Dev 0.9556

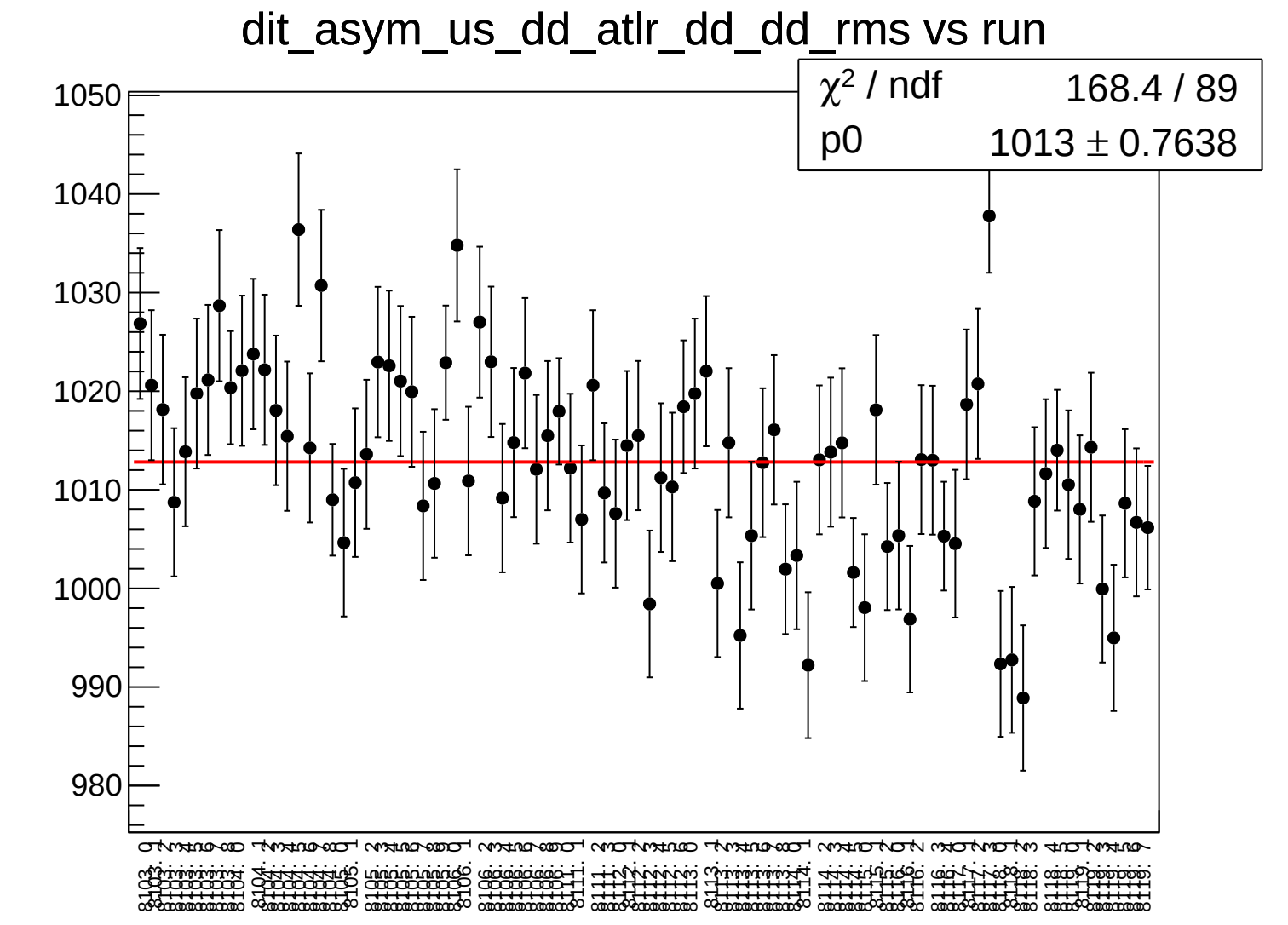

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 167.1 / 89
p0 1012 ± 0.7634
1050
1040
1030
1020
1010
1000
990
980

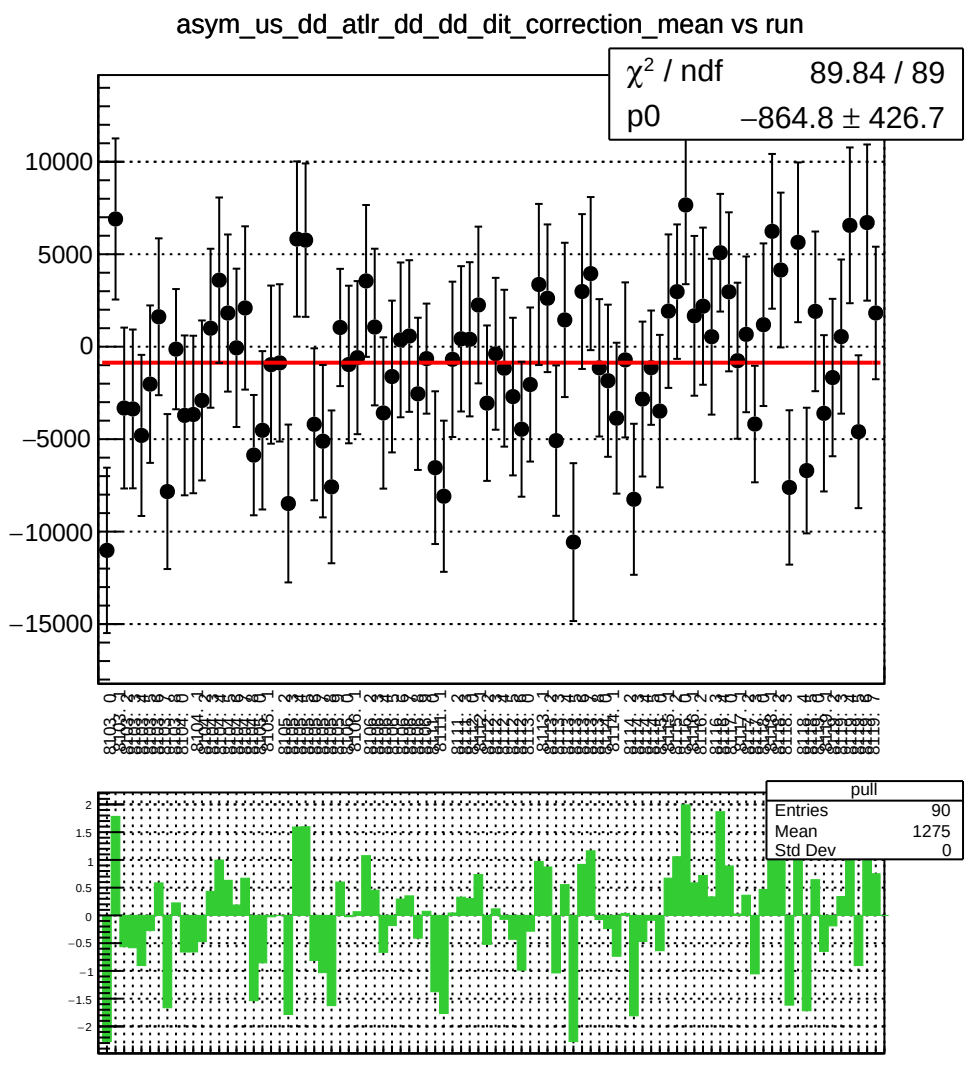

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.77 / 89
p0 −912.7 ± 421.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 824.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 90
Mean 0.007746
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

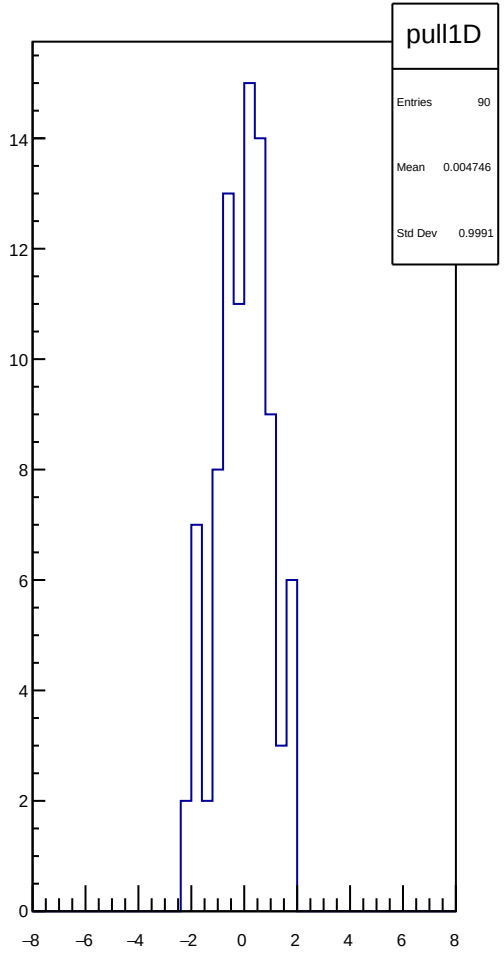

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2774 / 89
p0 395.1 ± 0.2982
440
420
400
380
360

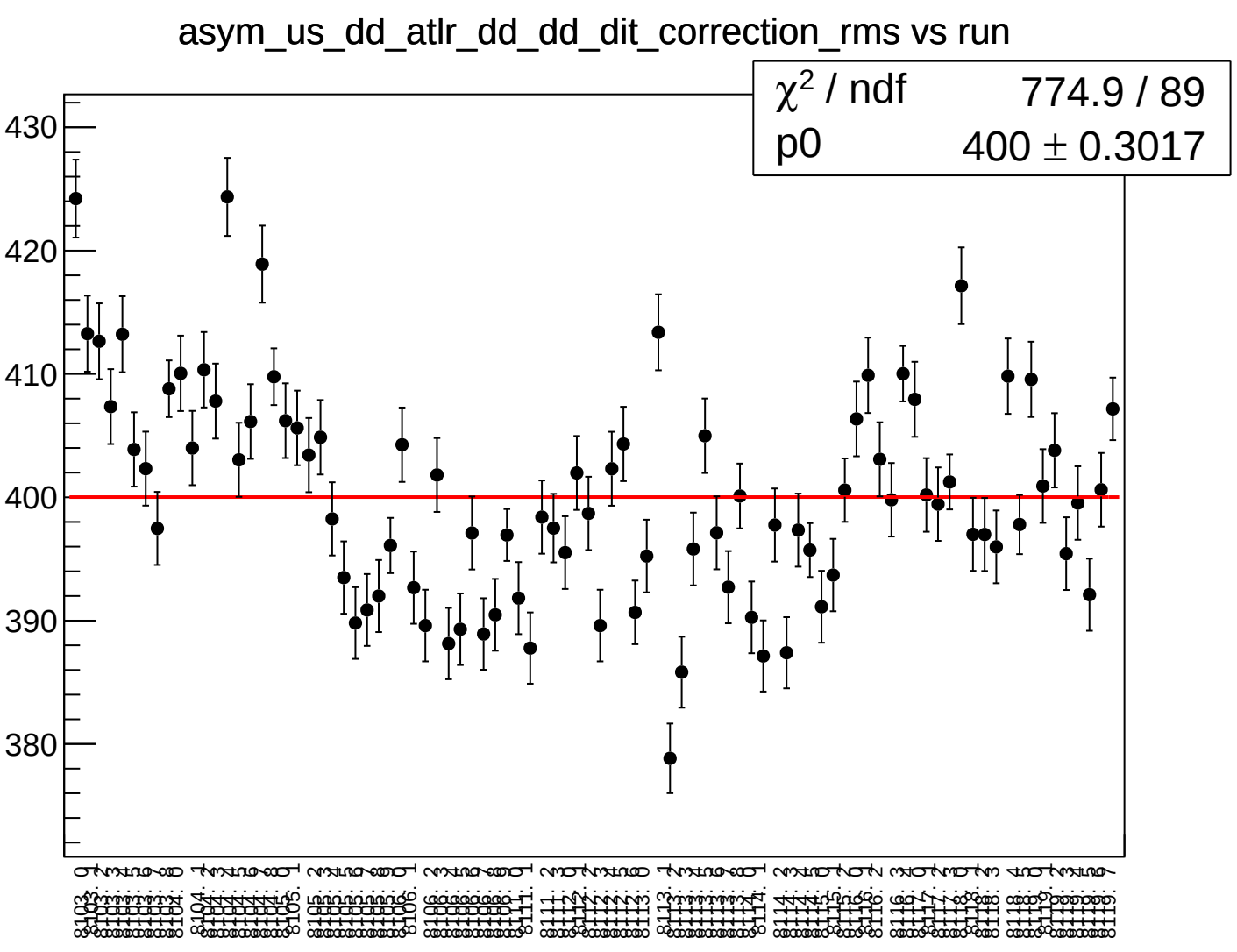

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.29 / 89
p0 42.87 ± 1080
pull
Entries 90
Mean 1007
Std Dev 0

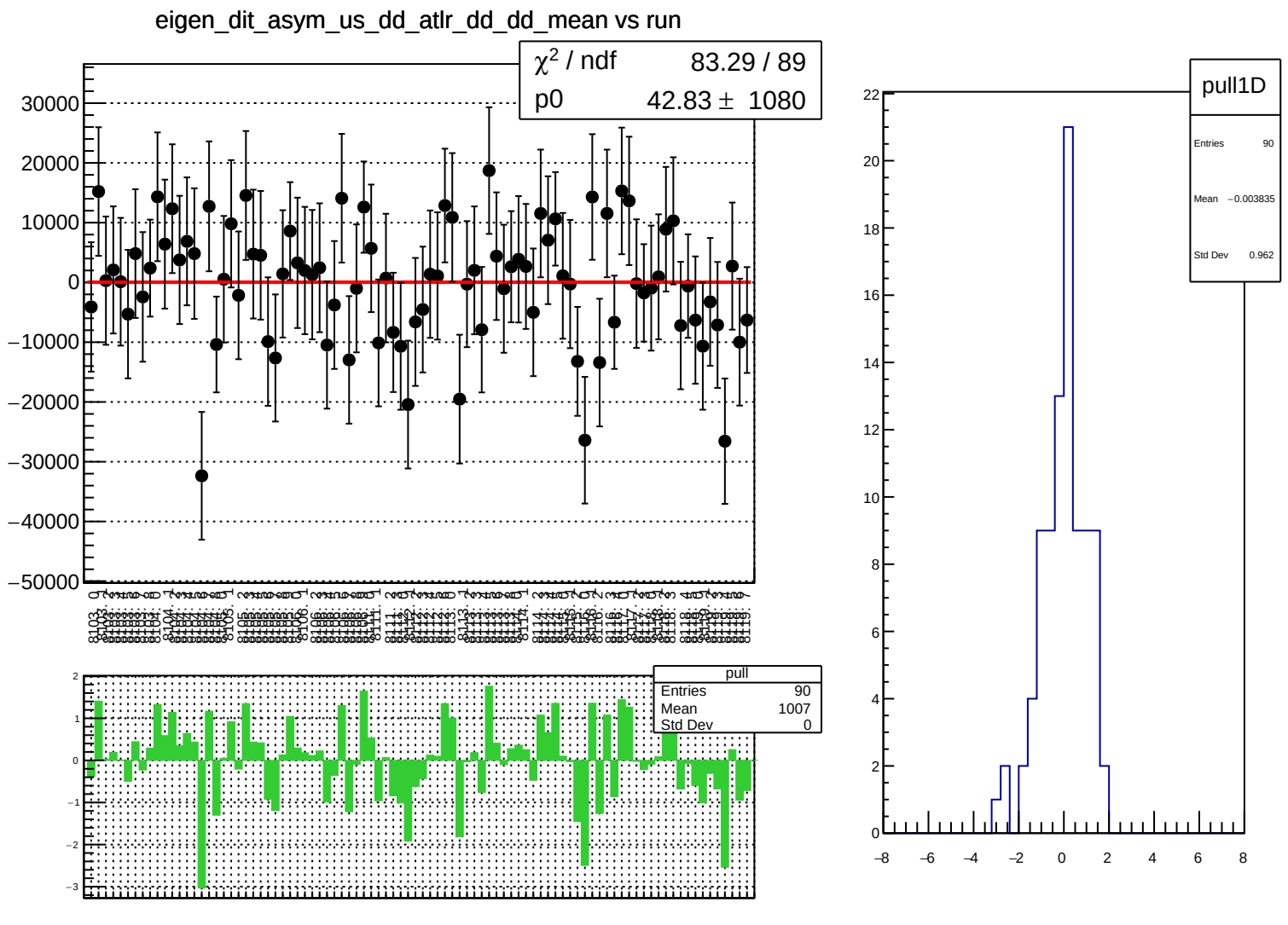

pull1D
Entries 90
Mean −0.003835
Std Dev 0.962

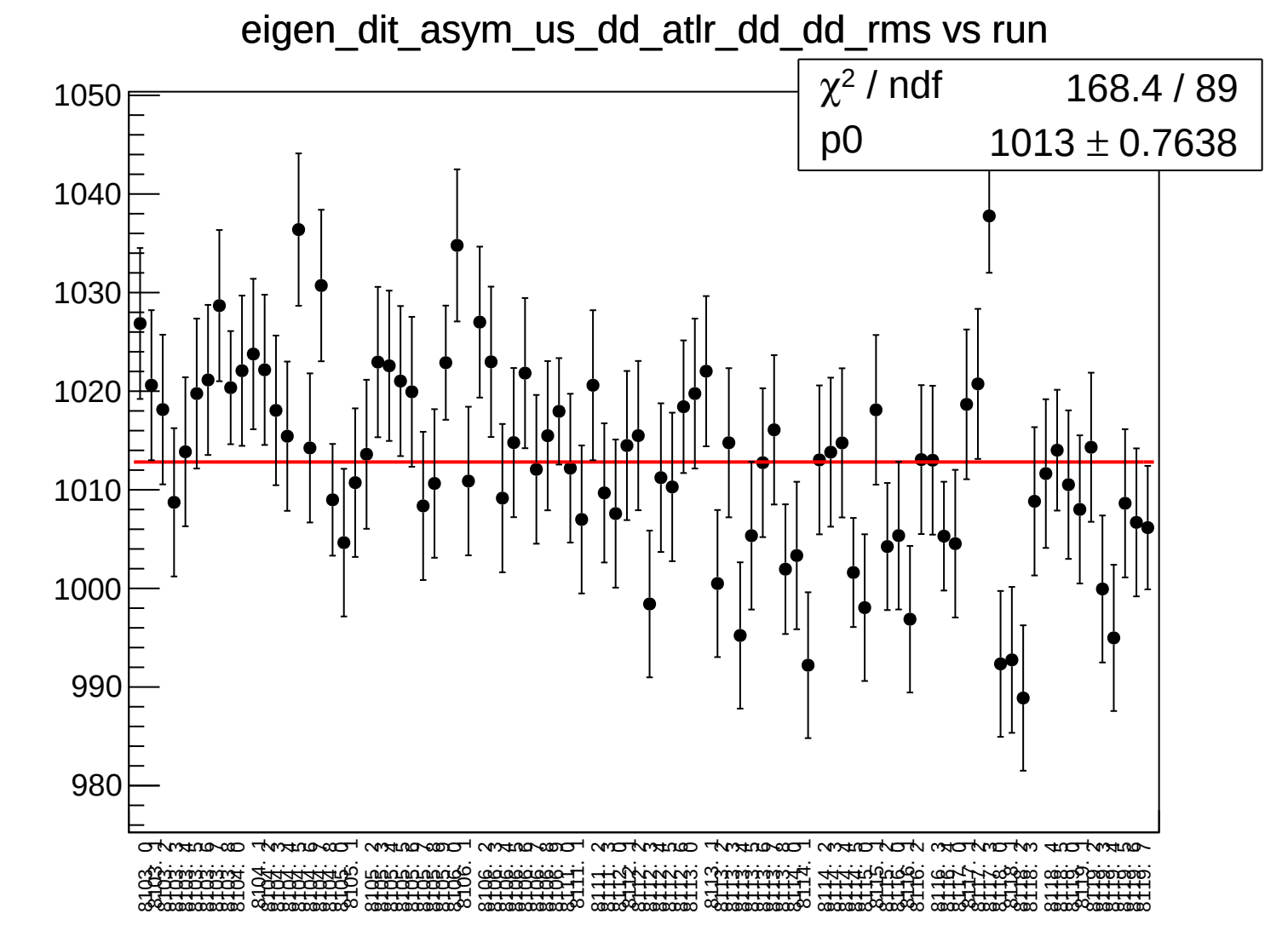

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 168.4 / 89
p0 1013 ± 0.7638
1050
1040
1030
1020
1010
1000
990
980

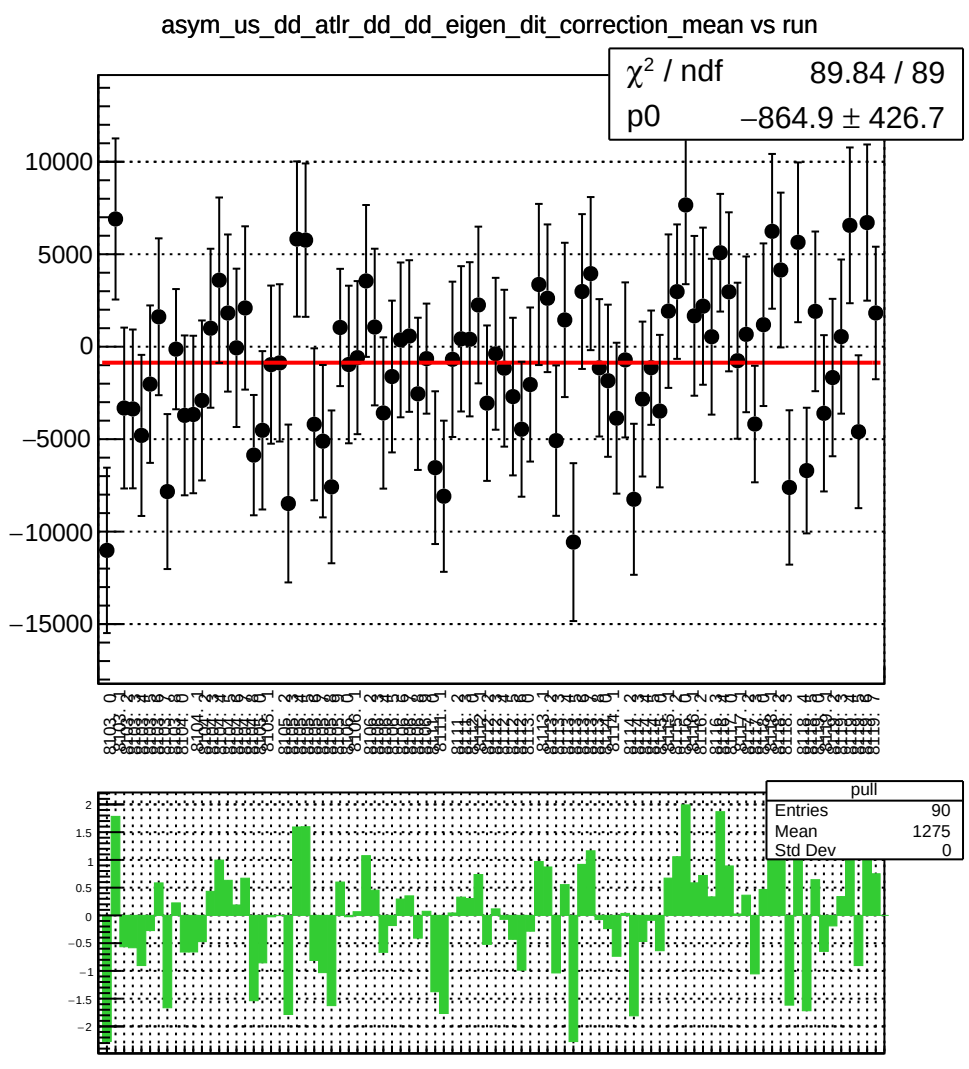

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 89.84 / 89
p0 −864.8 ± 426.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 1275
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

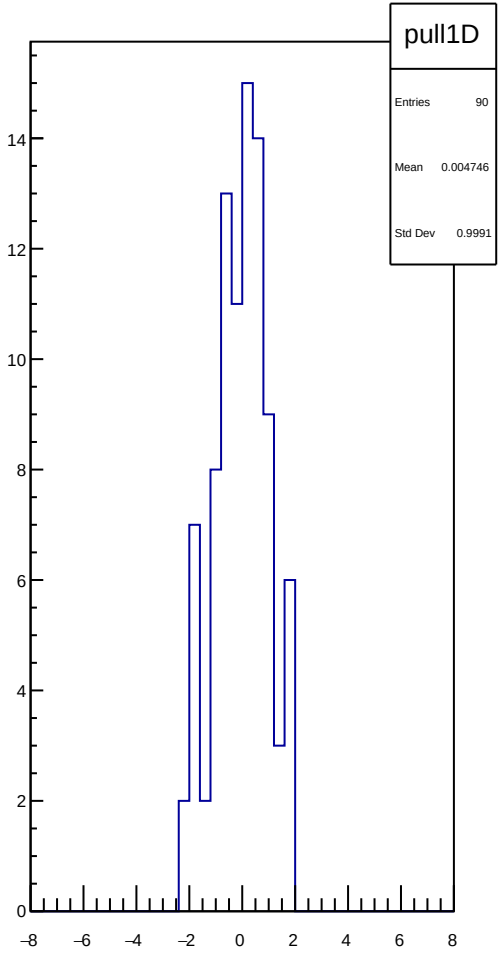

pull1D
Entries 90
Mean 0.004746
Std Dev 0.9991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

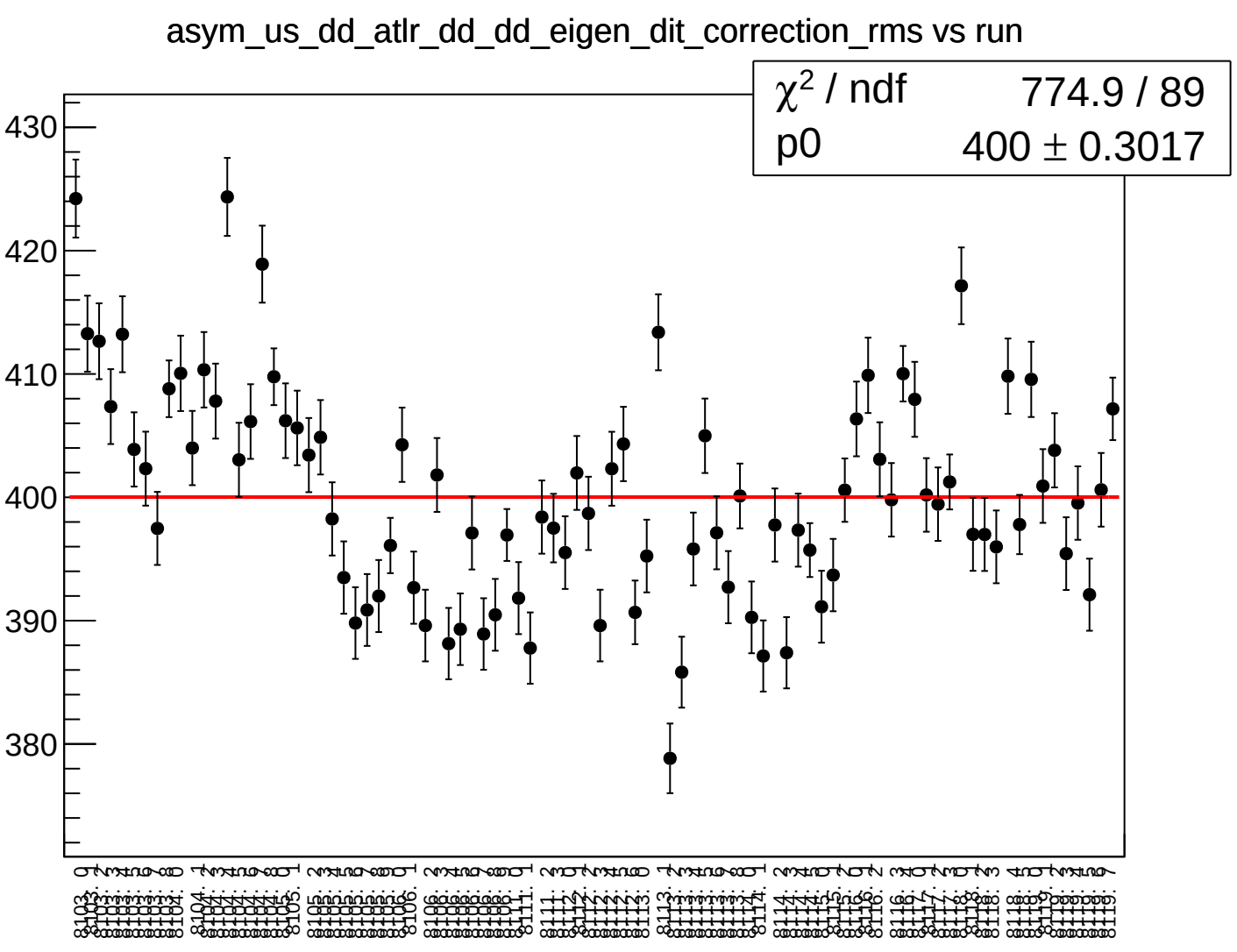

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 774.9 / 89
p0 400 ± 0.3017
430
420
410
400
390
380

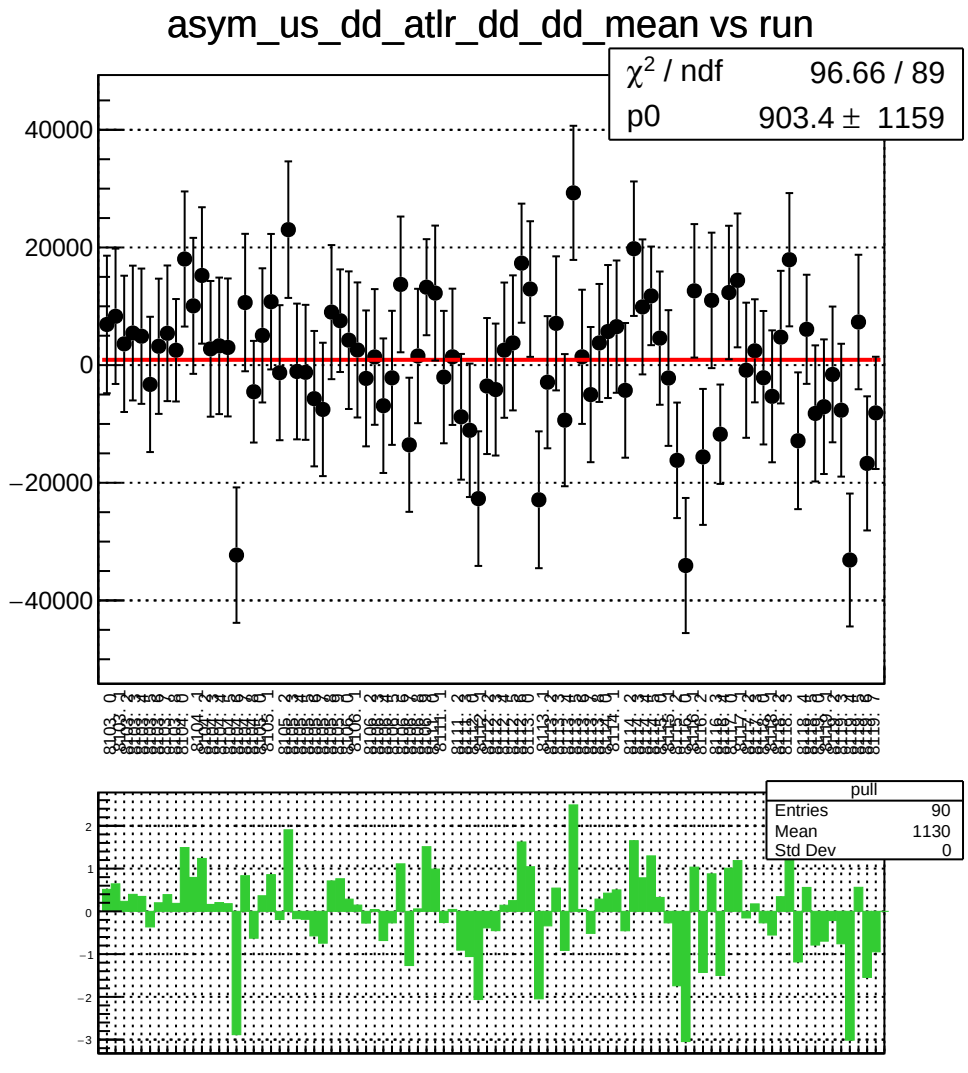

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.29 / 89
p0 42.83 ± 1080
pull
Entries 90
Mean 1007
Std Dev 0
pull1D
Entries 90
Mean −0.003835
Std Dev 0.962

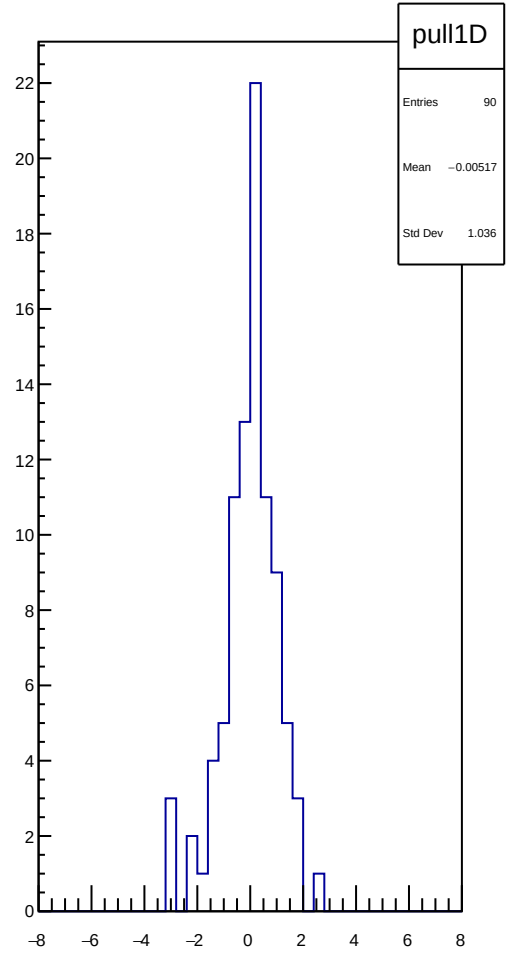

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 168.4 / 89
p0 1013 ± 0.7638
1050
1040
1030
1020
1010
1000
990
980

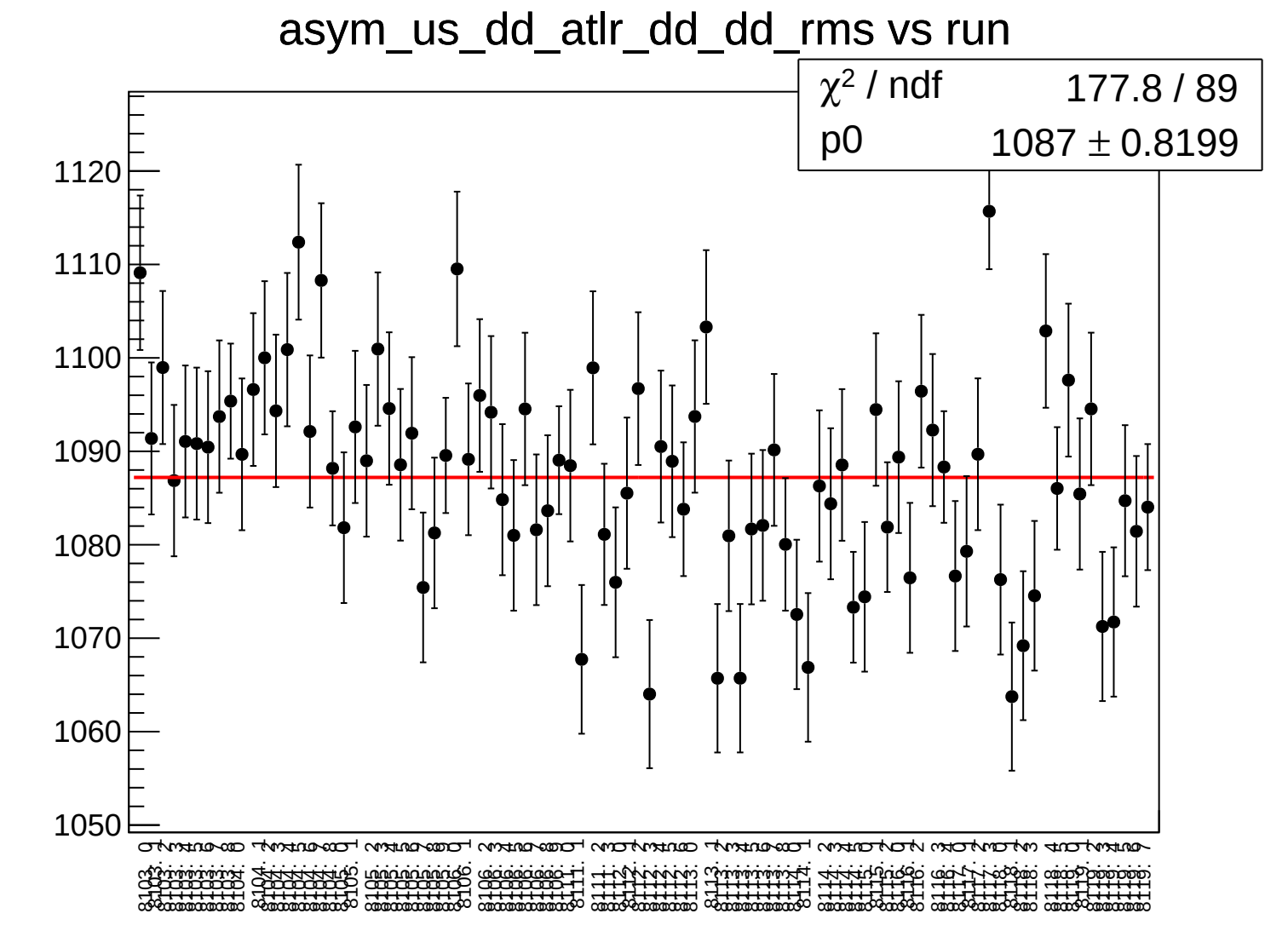

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.84 / 89
p0 −864.9 ± 426.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 1275
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

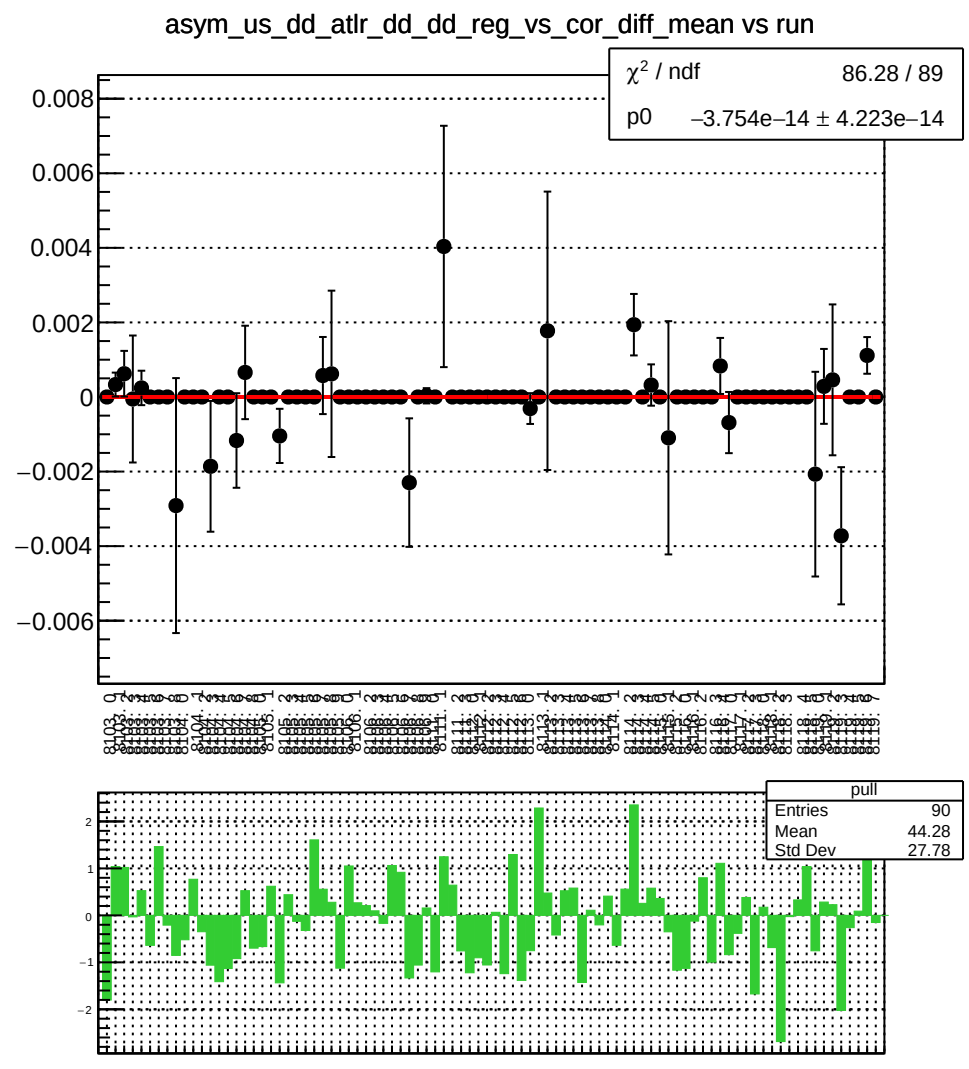

pull1D
Entries 90
Mean 0.004746
Std Dev 0.9991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

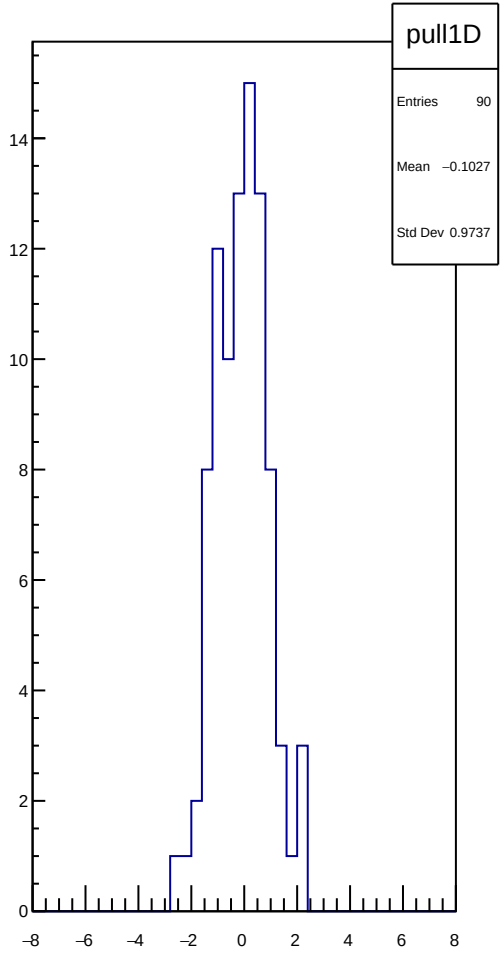

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 774.9 / 89
p0 400 ± 0.3017
430
420
410
400
390
380

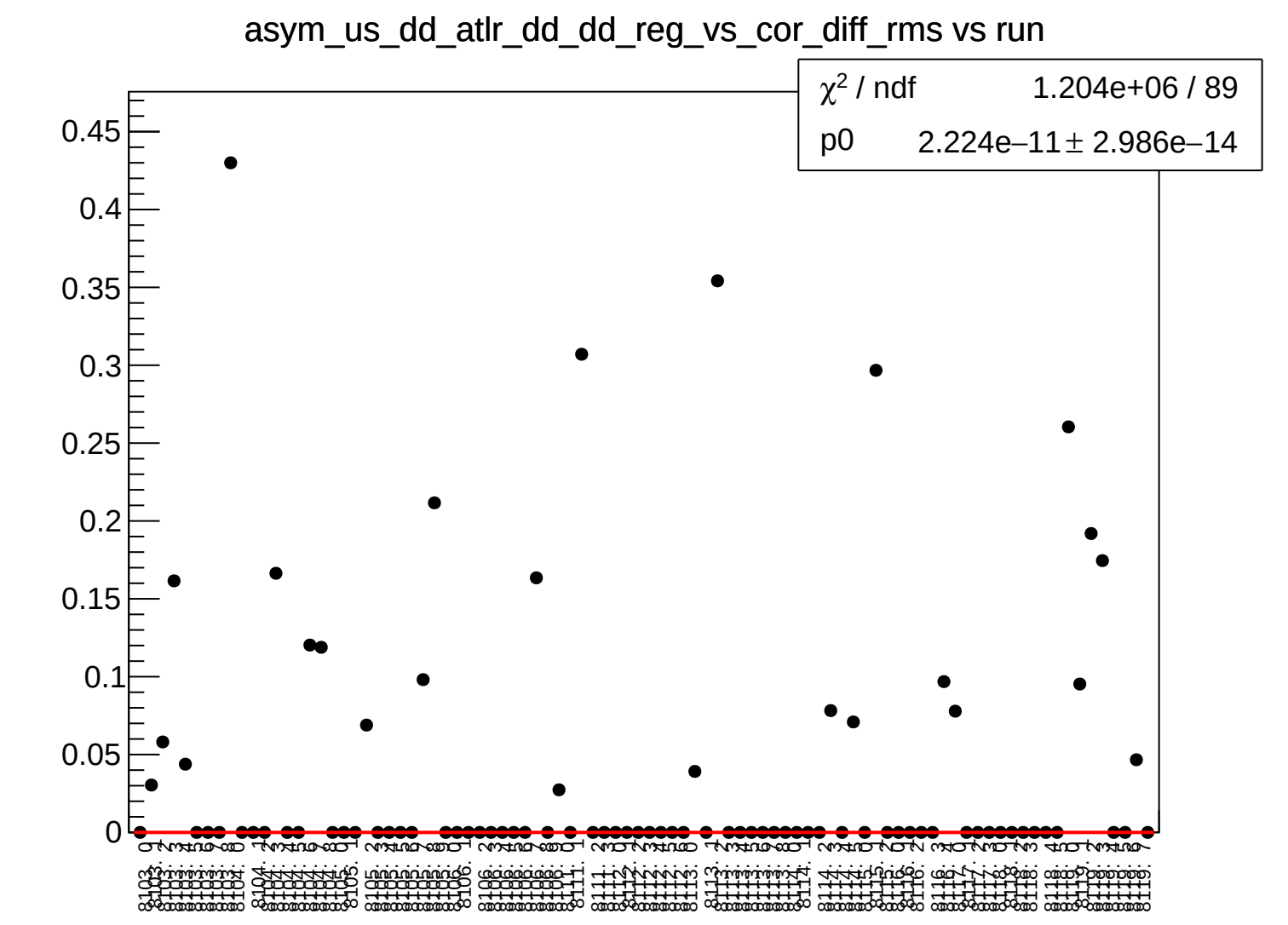

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.66 / 89
p0 903.4 ± 1159
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 1130
Std Dev 0
2
1
0
−1
−2
−3

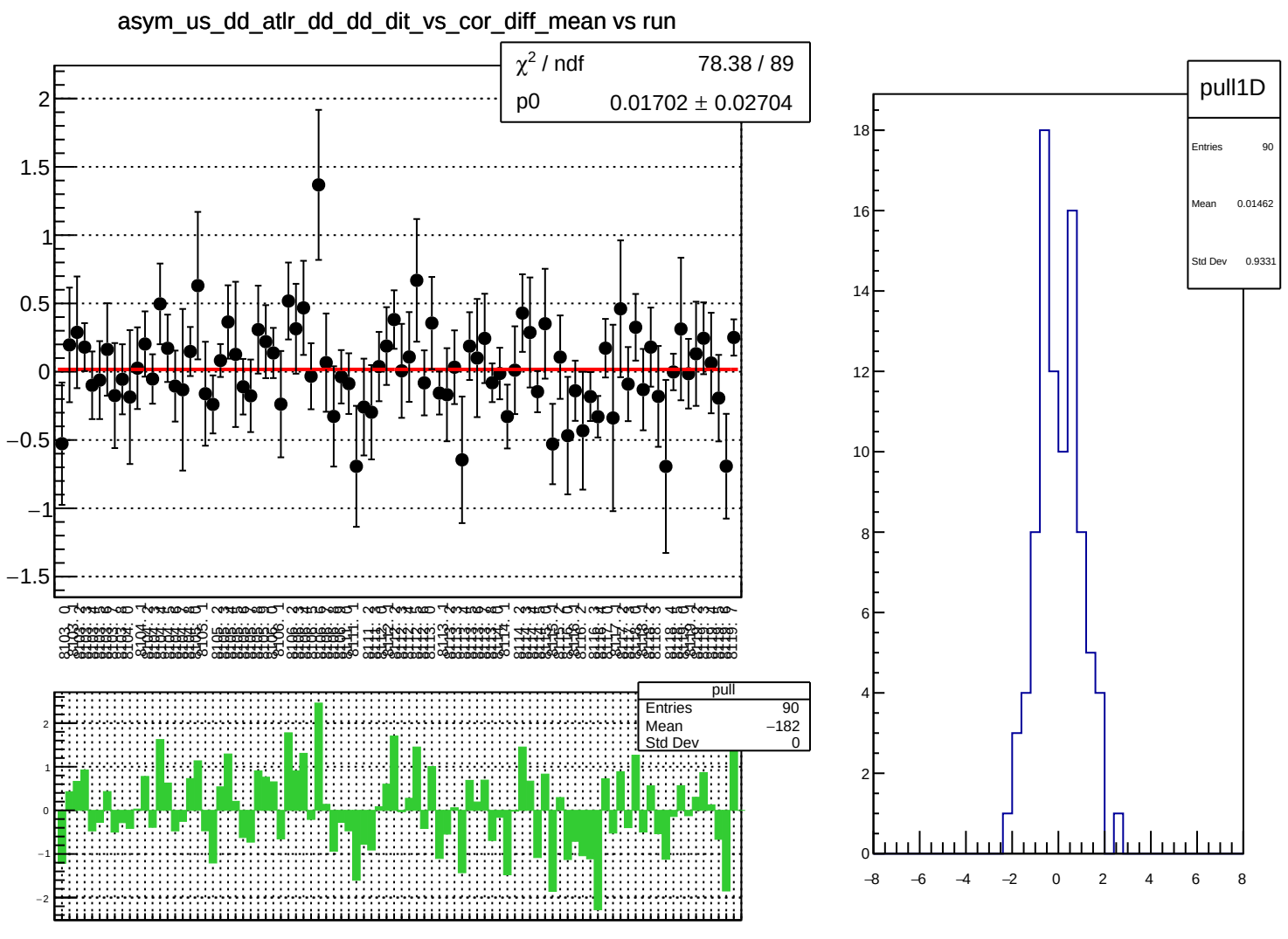

pull1D
Entries 90
Mean −0.00517
Std Dev 1.036
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

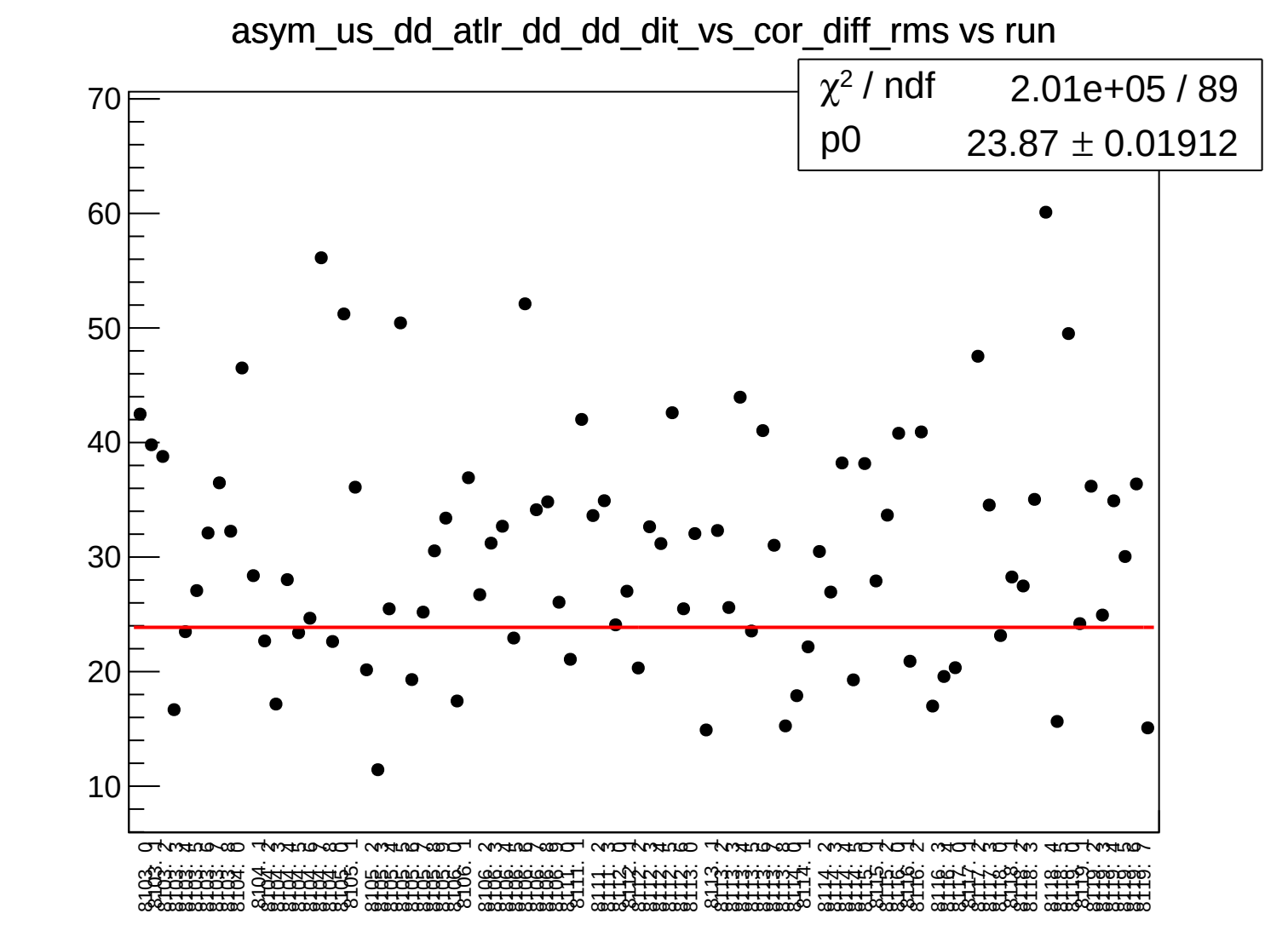

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 177.8 / 89
p0 1087 ± 0.8199
1120
1110
1100
1090
1080
1070
1060
1050

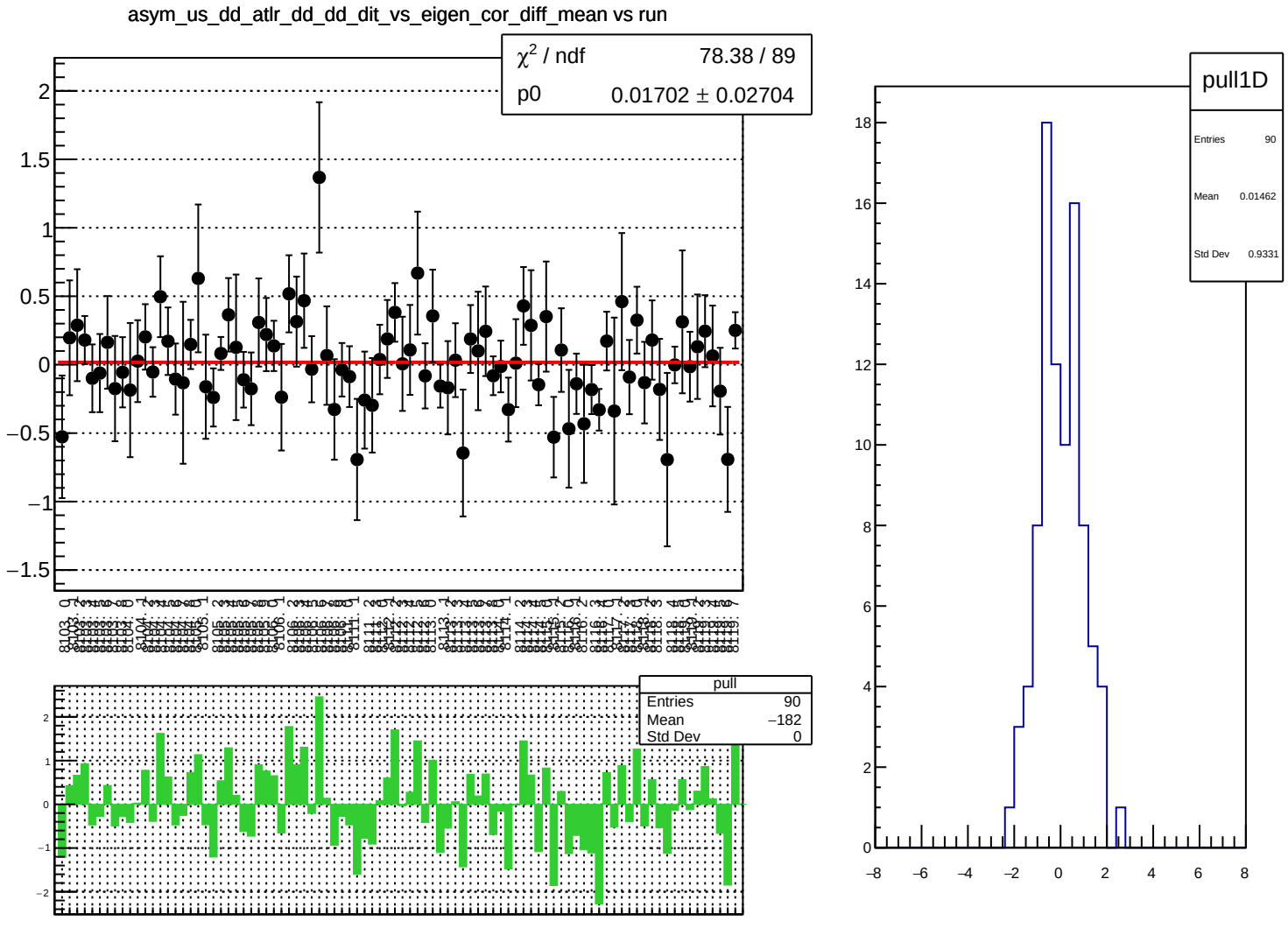

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.28 / 89
p0 −3.754e−14 ± 4.223e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 90
Mean 44.28
Std Dev 27.78
2
1
0
−1
−2

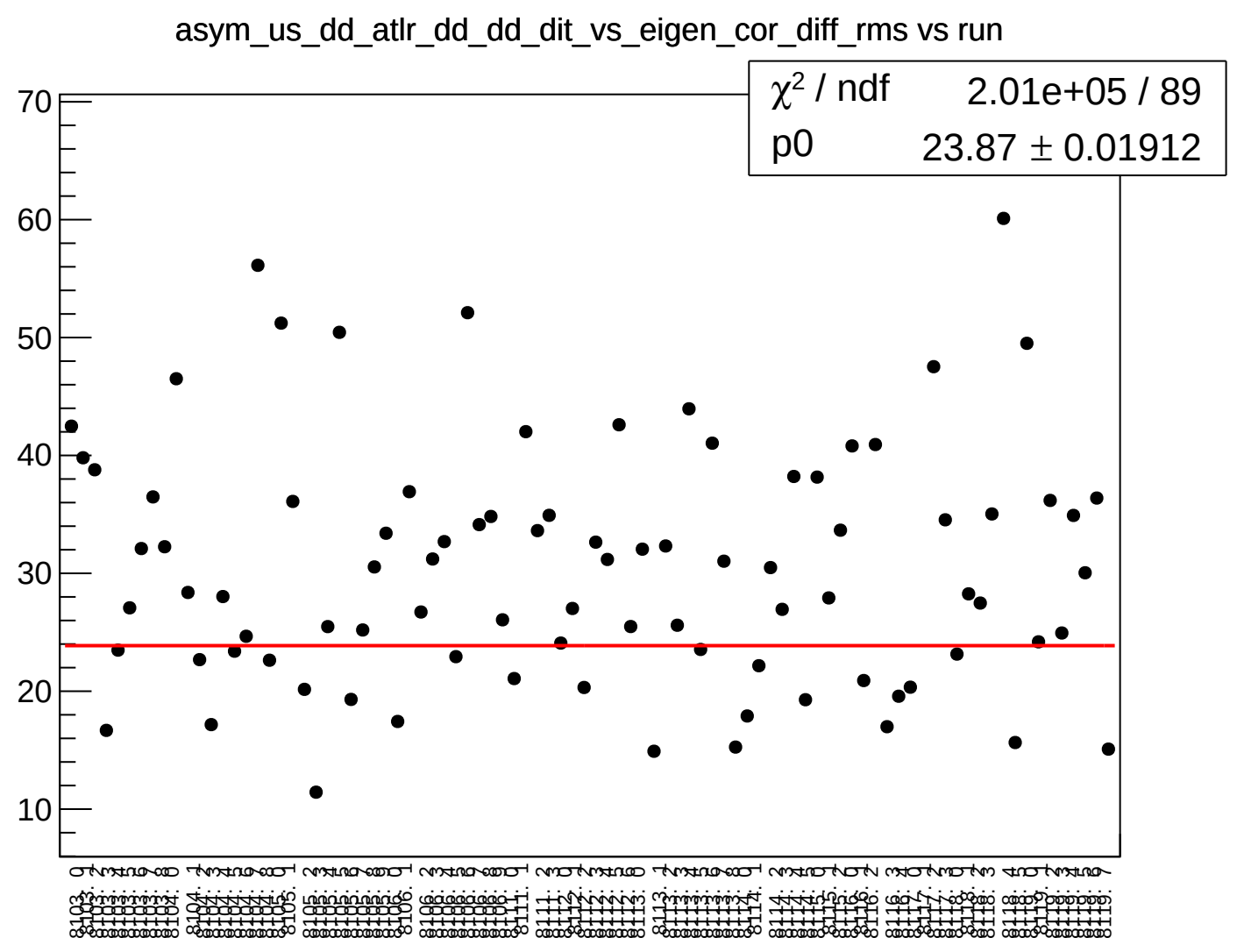

pull1D
Entries 90
Mean −0.1027
Std Dev 0.9737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

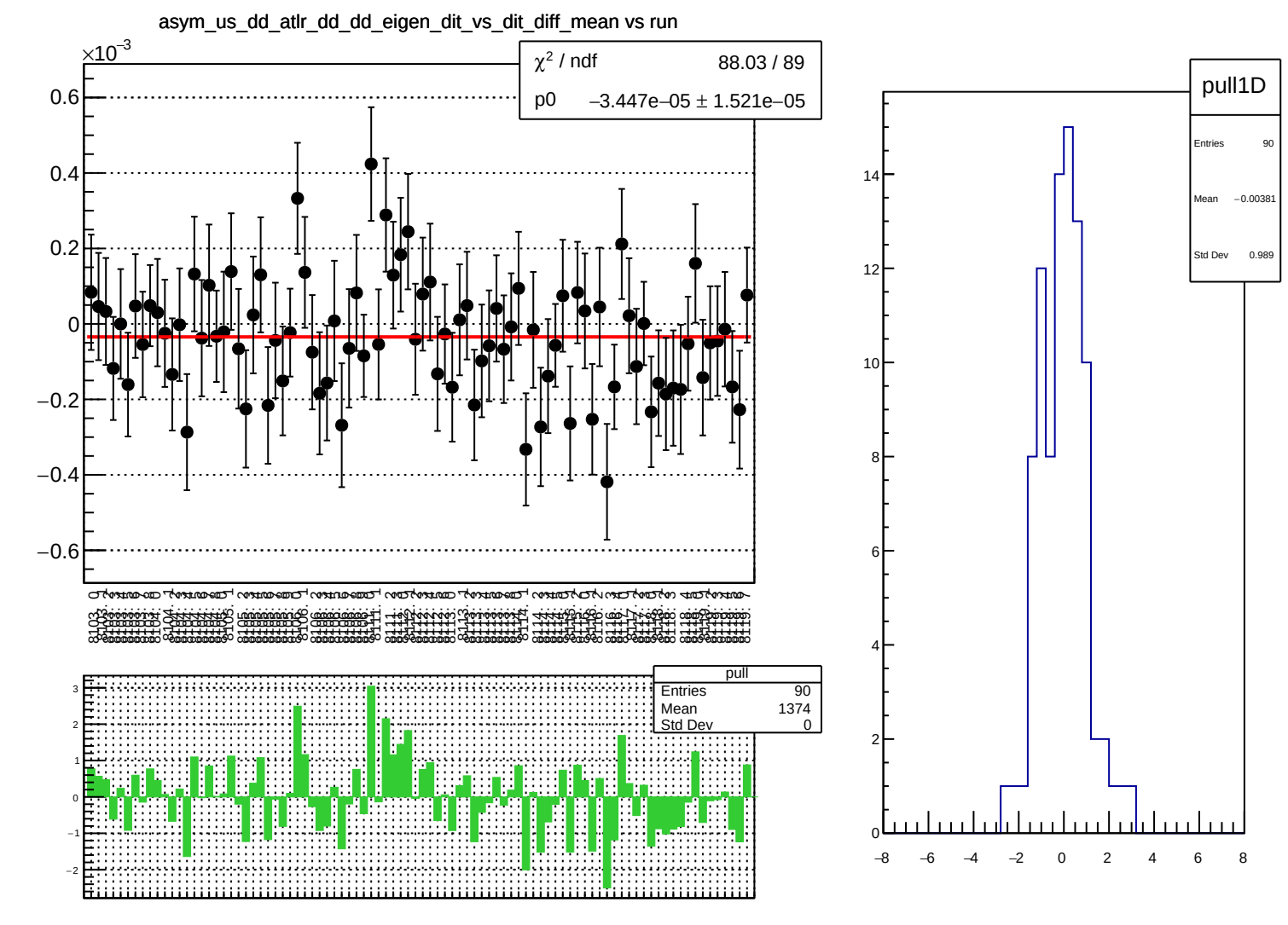

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.204e+06 / 89
p0 2.224e−11 ± 2.986e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

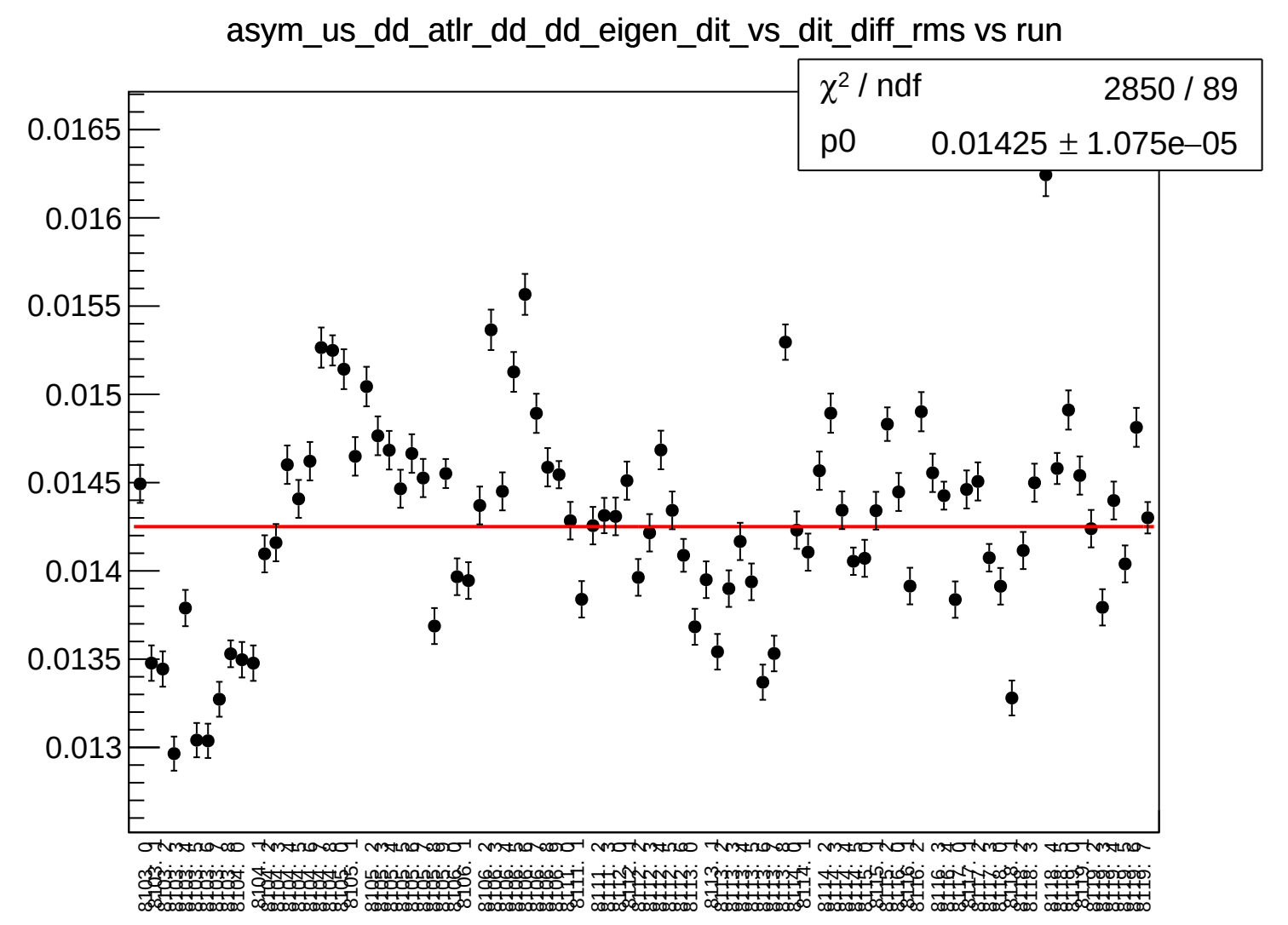

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.38 / 89
p0 0.01702 ± 0.02704
pull
Entries 90
Mean −182
Std Dev 0
pull1D
Entries 90
Mean 0.01462
Std Dev 0.9331

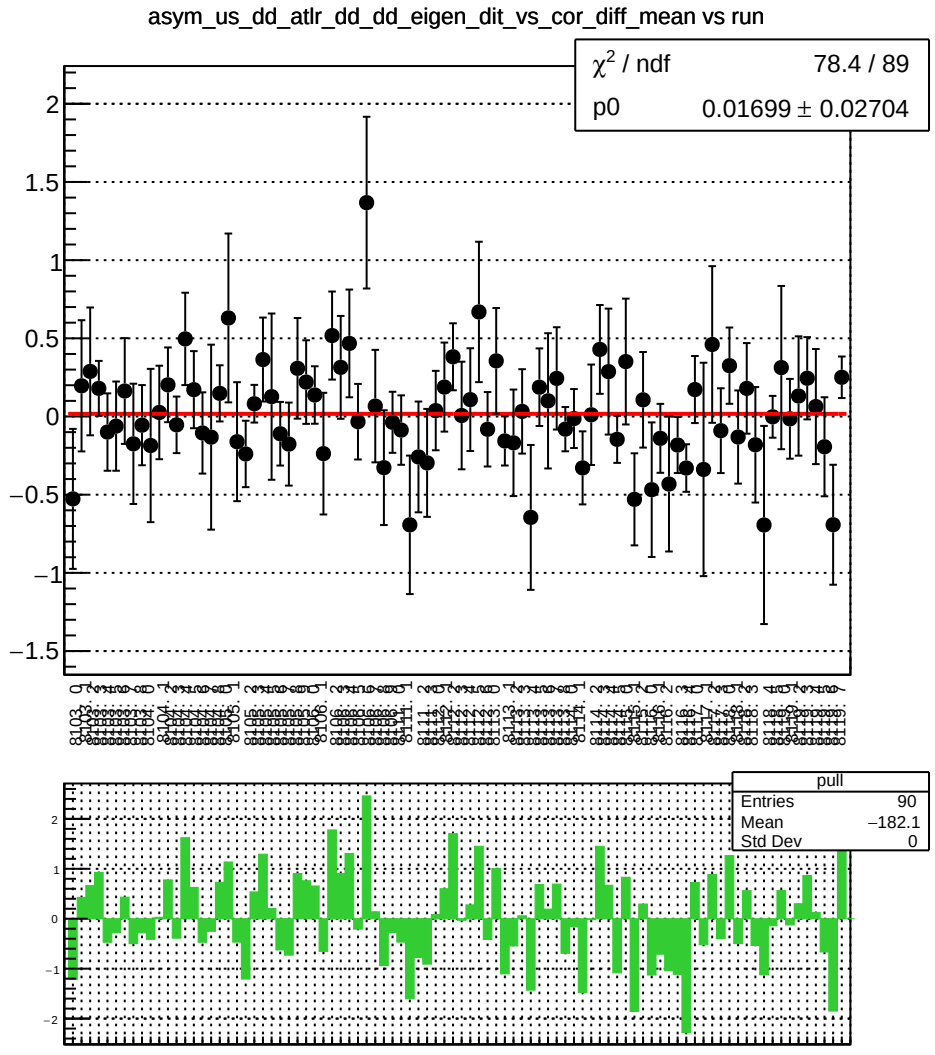

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.01e+05 / 89
p0 23.87 ± 0.01912
70
60
50
40
30
20
10

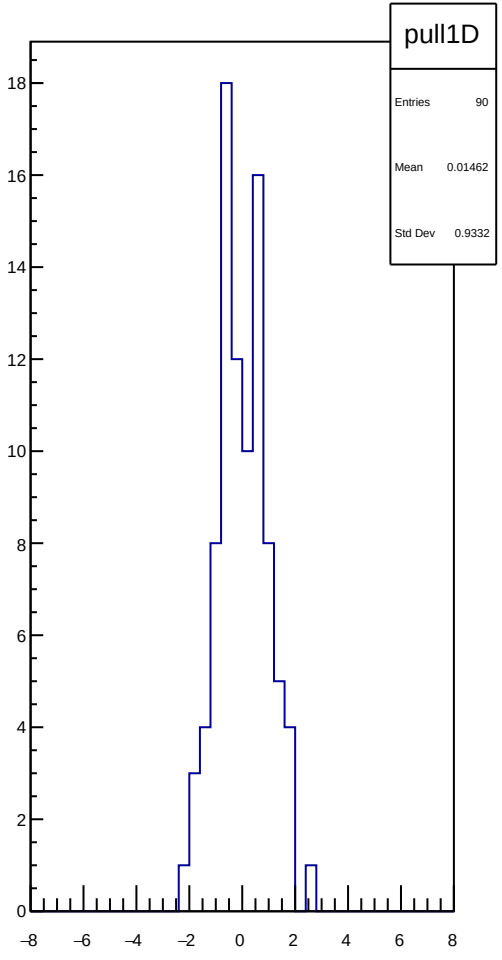

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.38 / 89
p0 0.01702 ± 0.02704
pull
Entries 90
Mean −182
Std Dev 0
pull1D
Entries 90
Mean 0.01462
Std Dev 0.9331

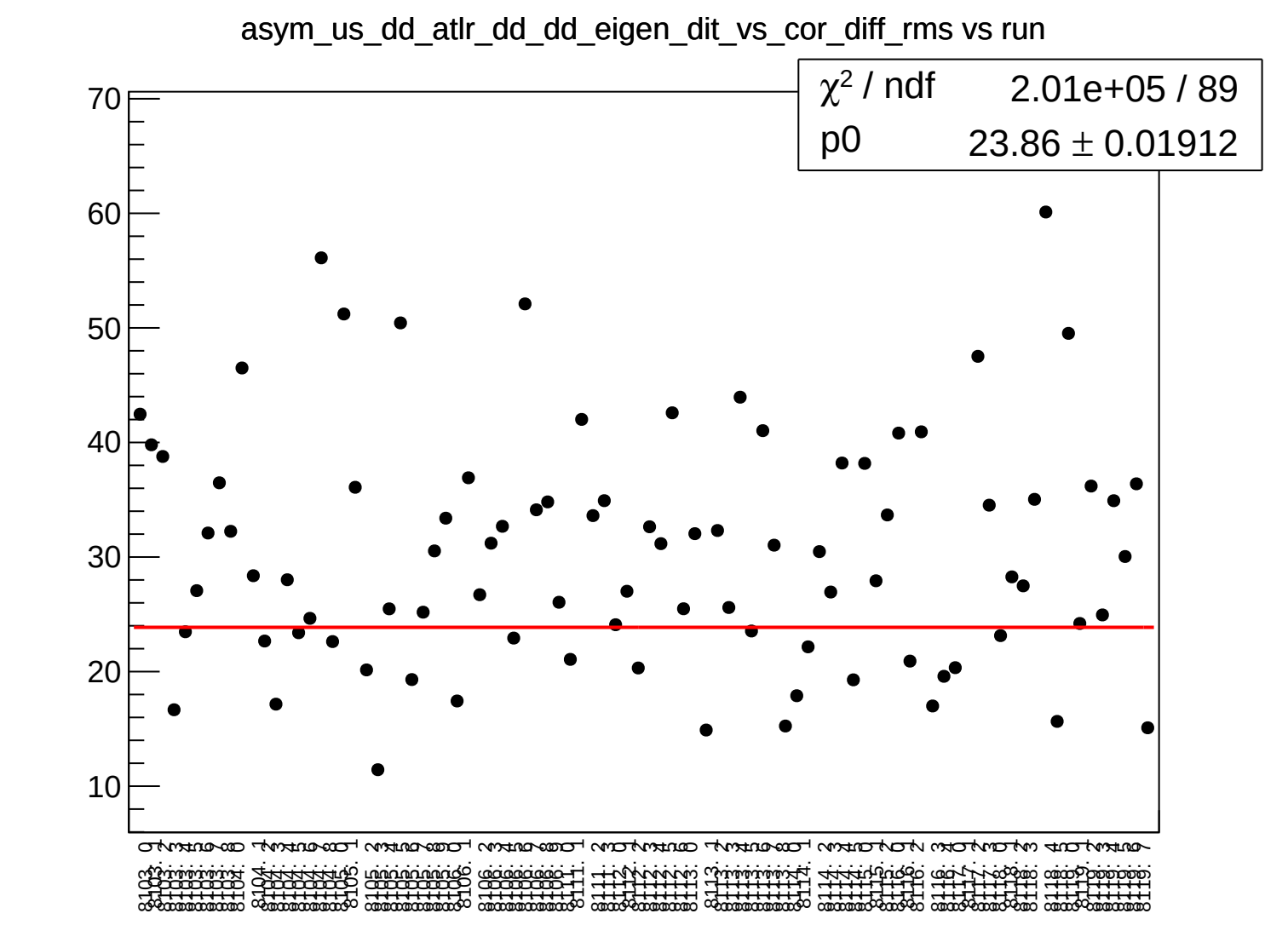

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.01e+05 / 89
p0 23.87 ± 0.01912
70
60
50
40
30
20
10

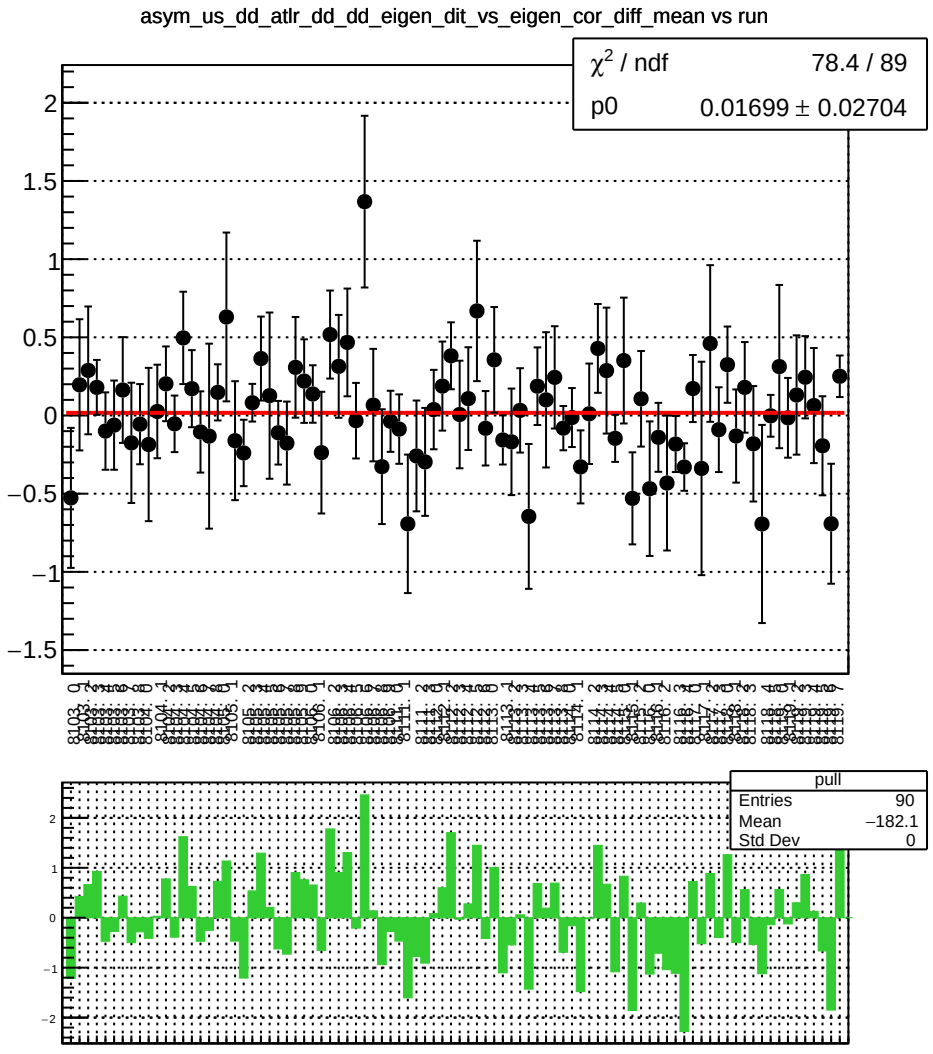

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.03 / 89
p0 −3.447e−05 ± 1.521e−05
pull
Entries 90
Mean 1374
Std Dev 0
pull1D
Entries 90
Mean −0.00381
Std Dev 0.989

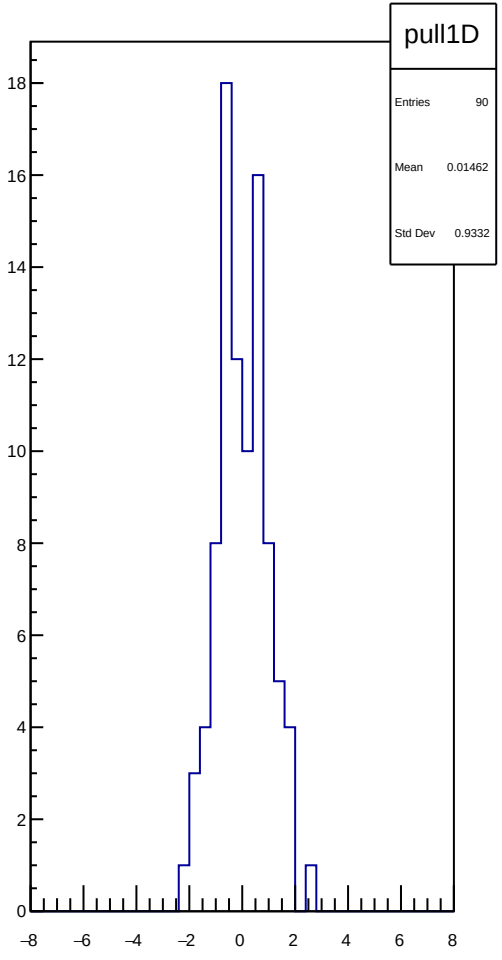

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2850 / 89
p0 0.01425 ± 1.075e−05
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

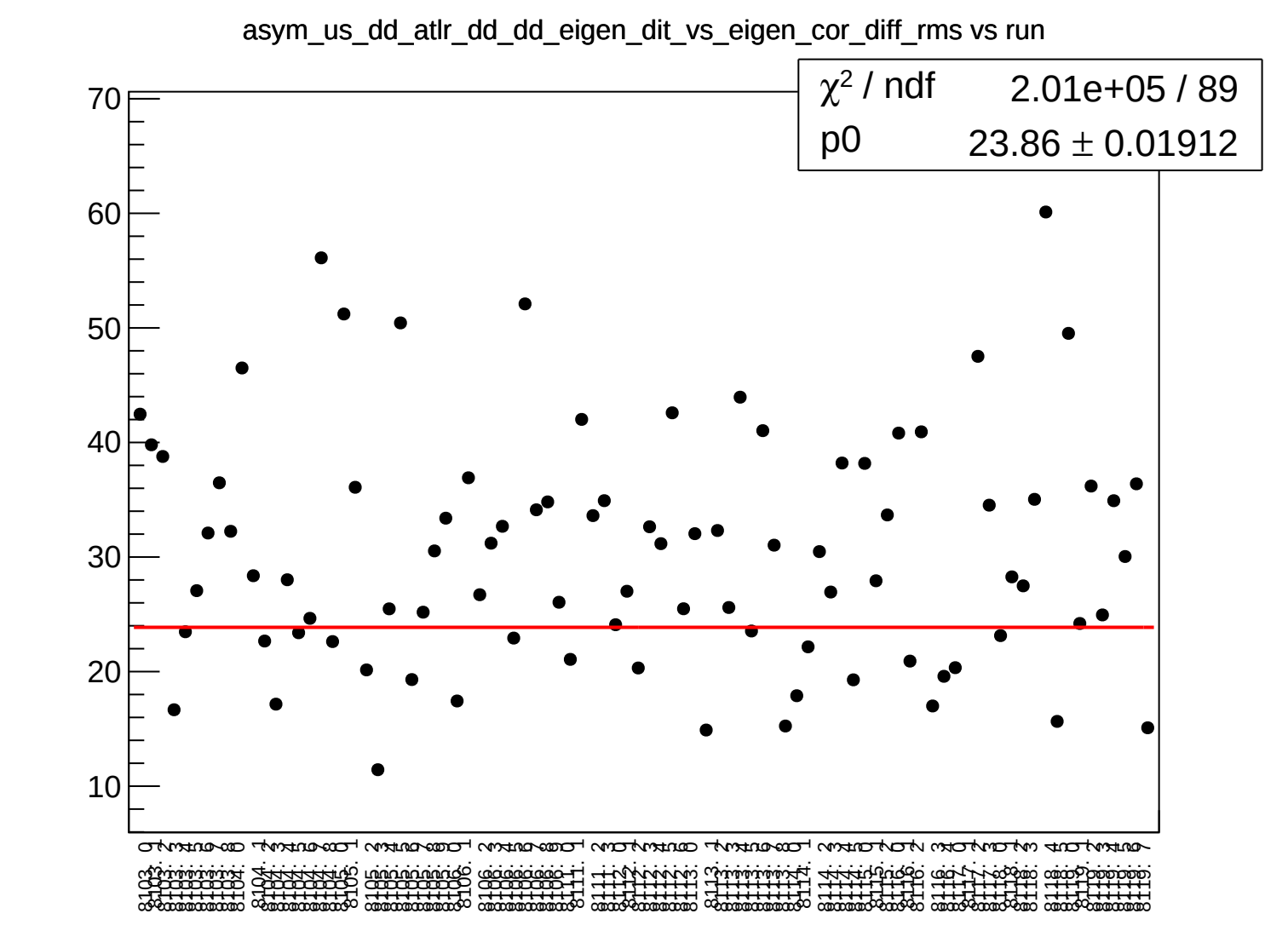

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.4 / 89
p0 0.01699 ± 0.02704
pull
Entries 90
Mean −182.1
Std Dev 0

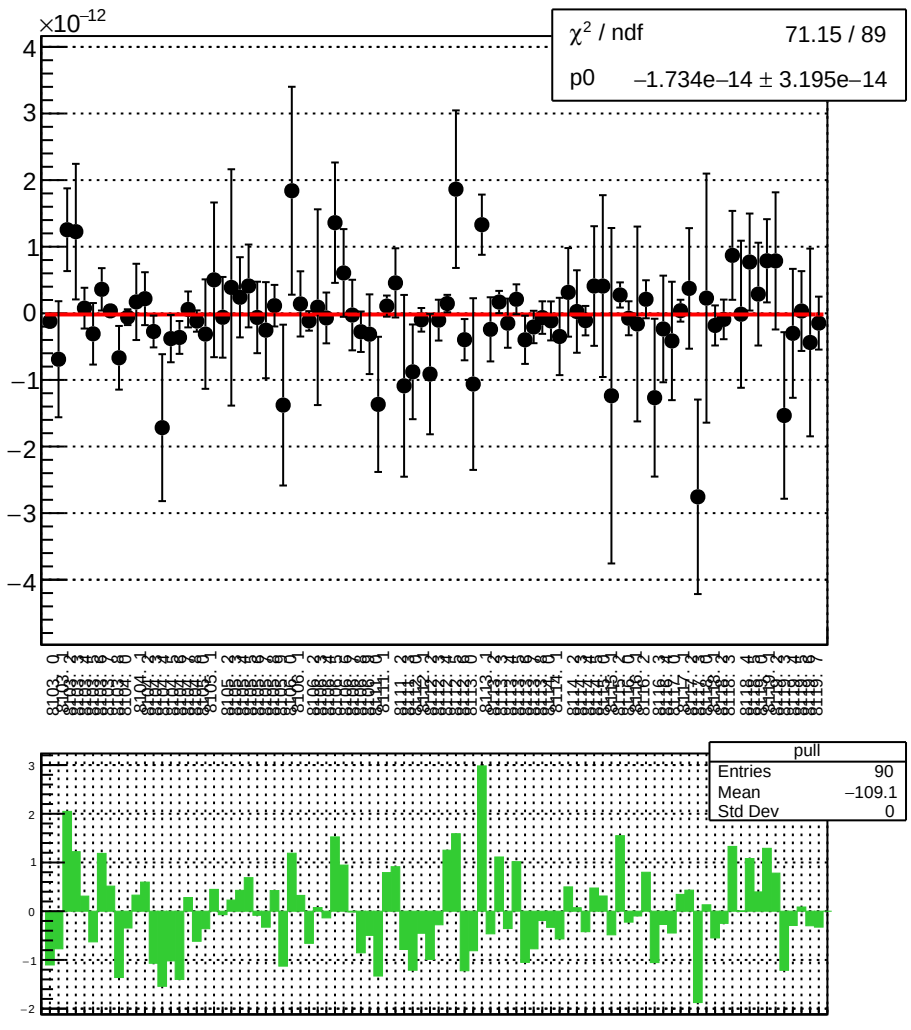

pull1D
Entries 90
Mean 0.01462
Std Dev 0.9332

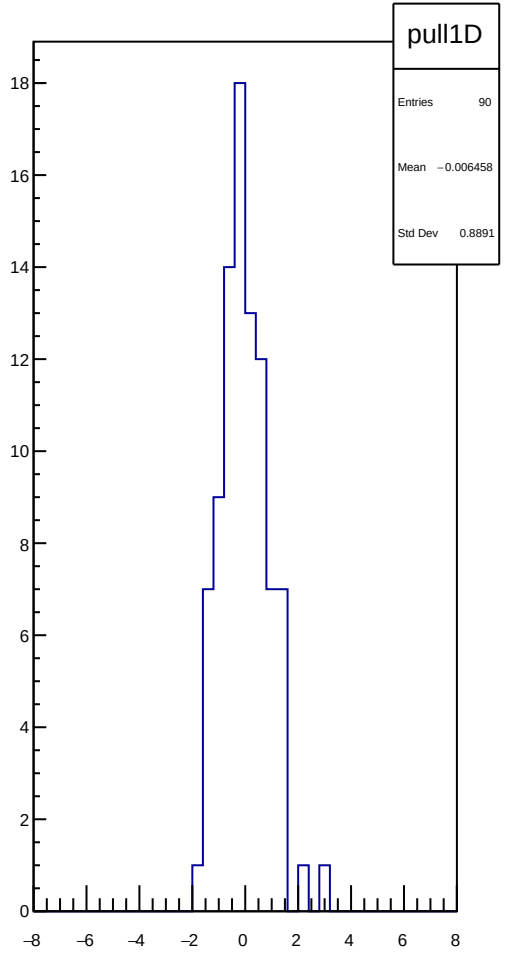

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.01e+05 / 89
p0 23.86 ± 0.01912
70
60
50
40
30
20
10

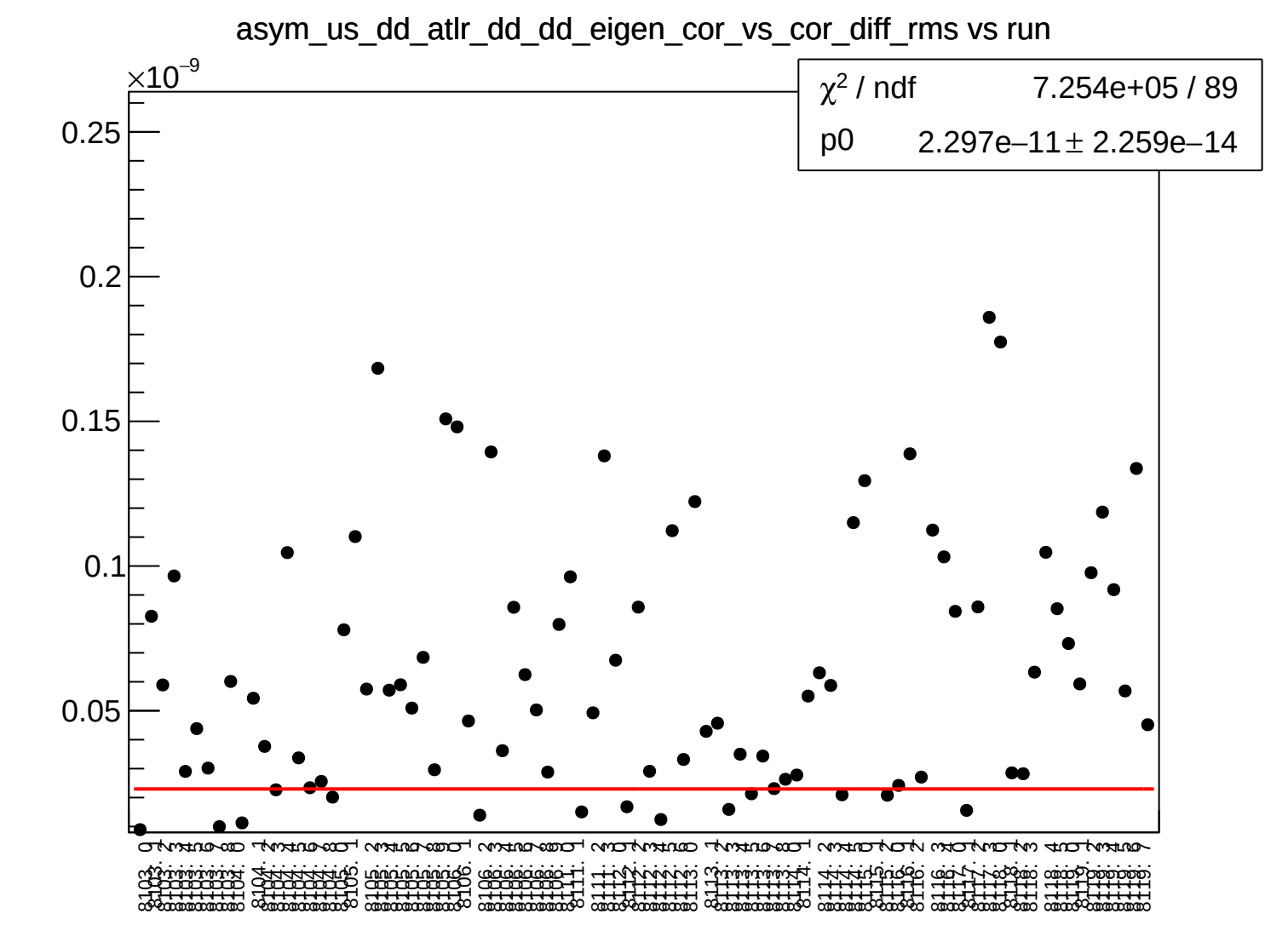

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.4 / 89
p0 0.01699 ± 0.02704
pull
Entries 90
Mean −182.1
Std Dev 0

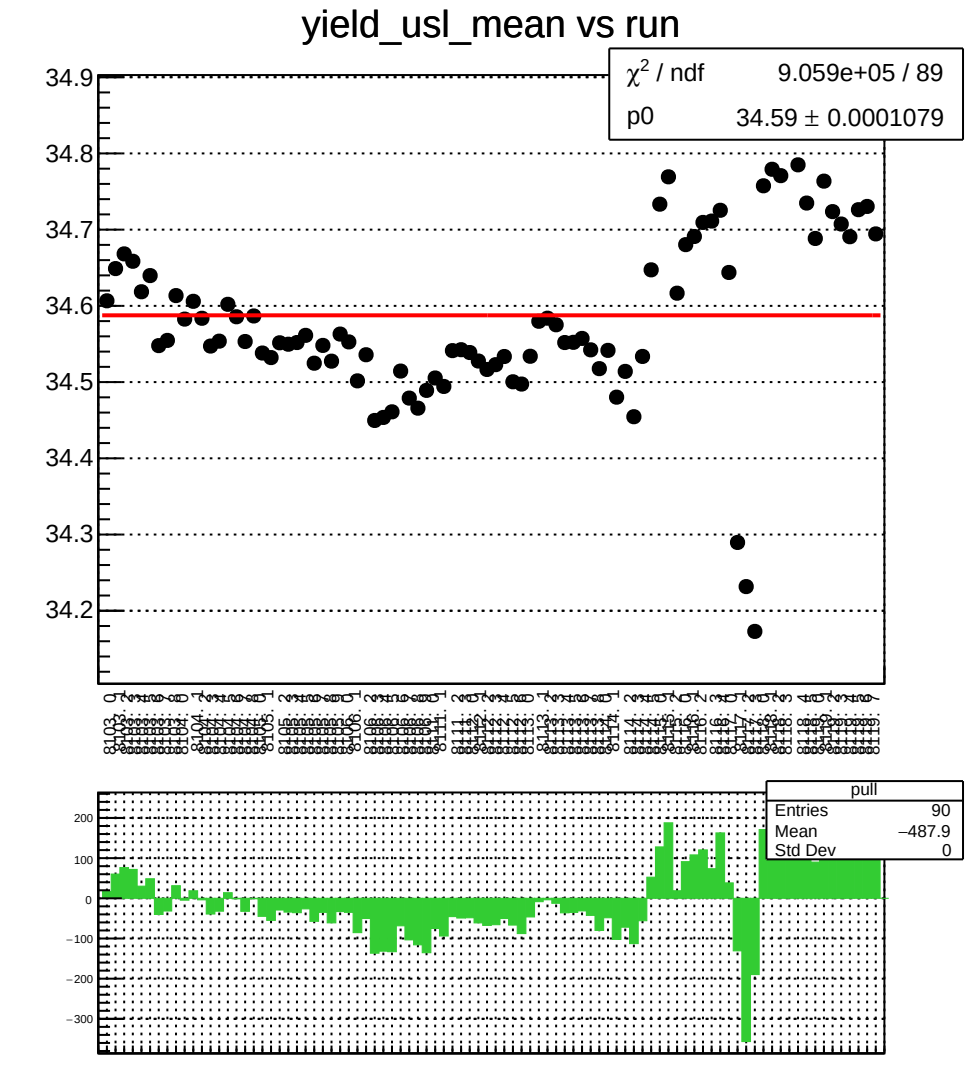

pull1D
Entries 90
Mean 0.01462
Std Dev 0.9332

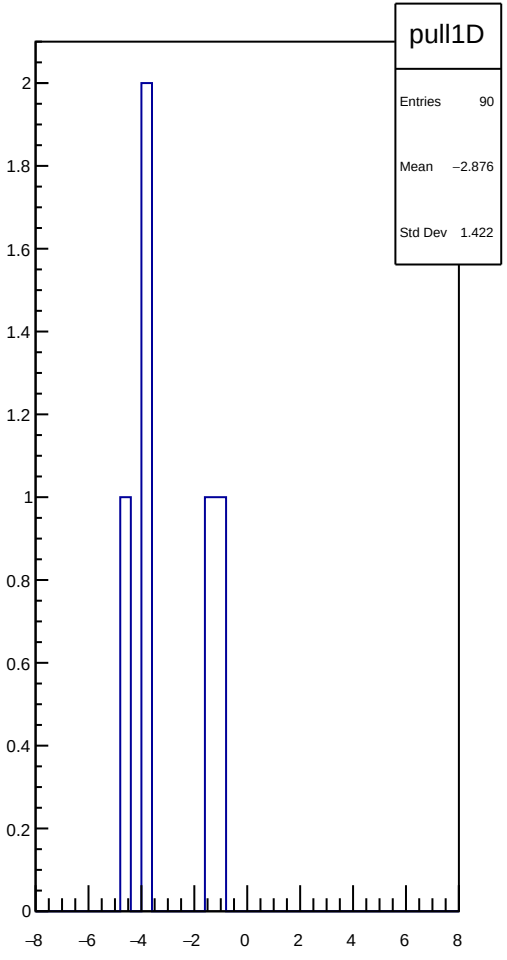

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.01e+05 / 89
p0 23.86 ± 0.01912
70
60
50
40
30
20
10

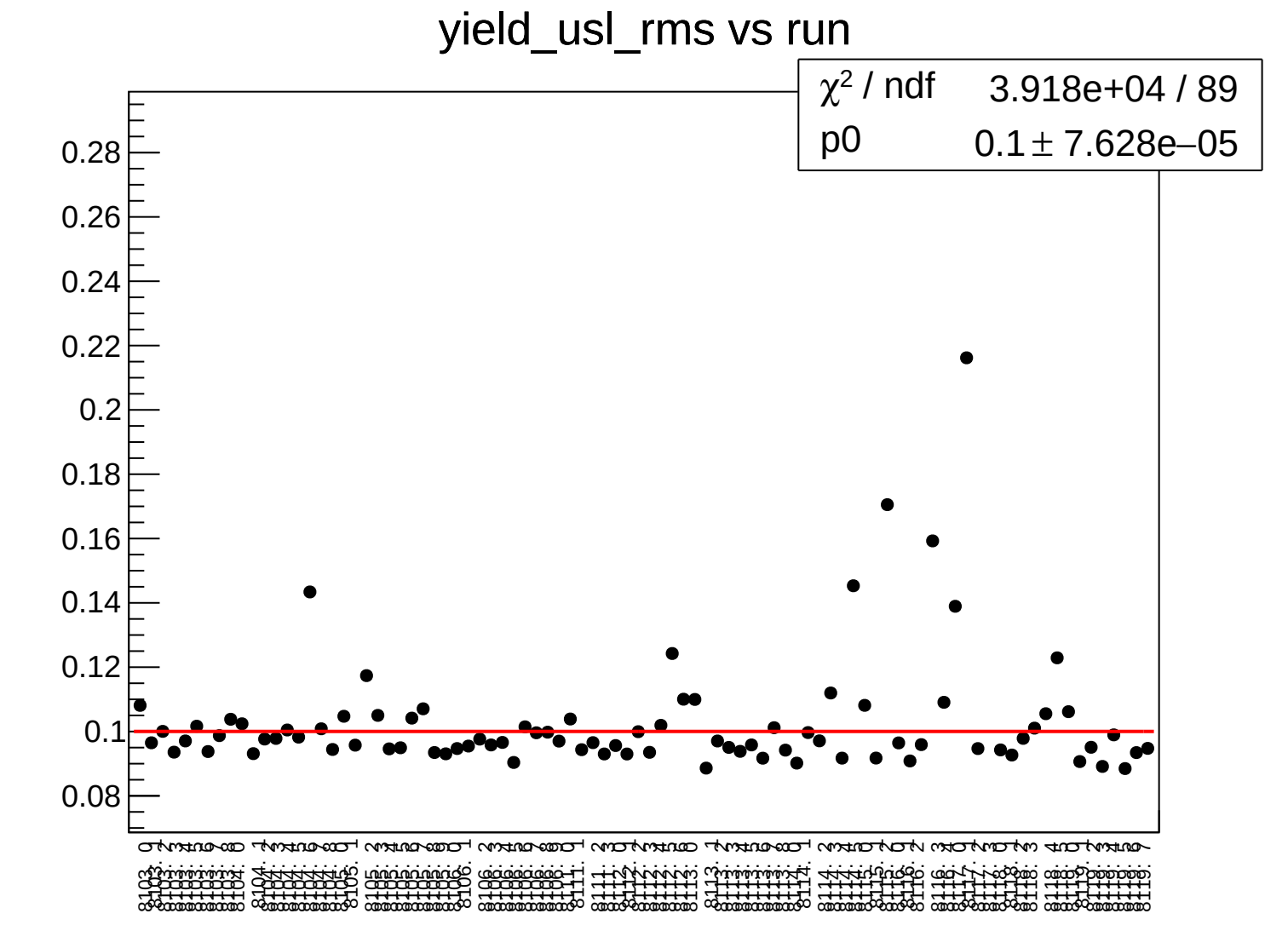

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.15 / 89
p0 −1.734e−14 ± 3.195e−14
pull
Entries 90
Mean −109.1
Std Dev 0

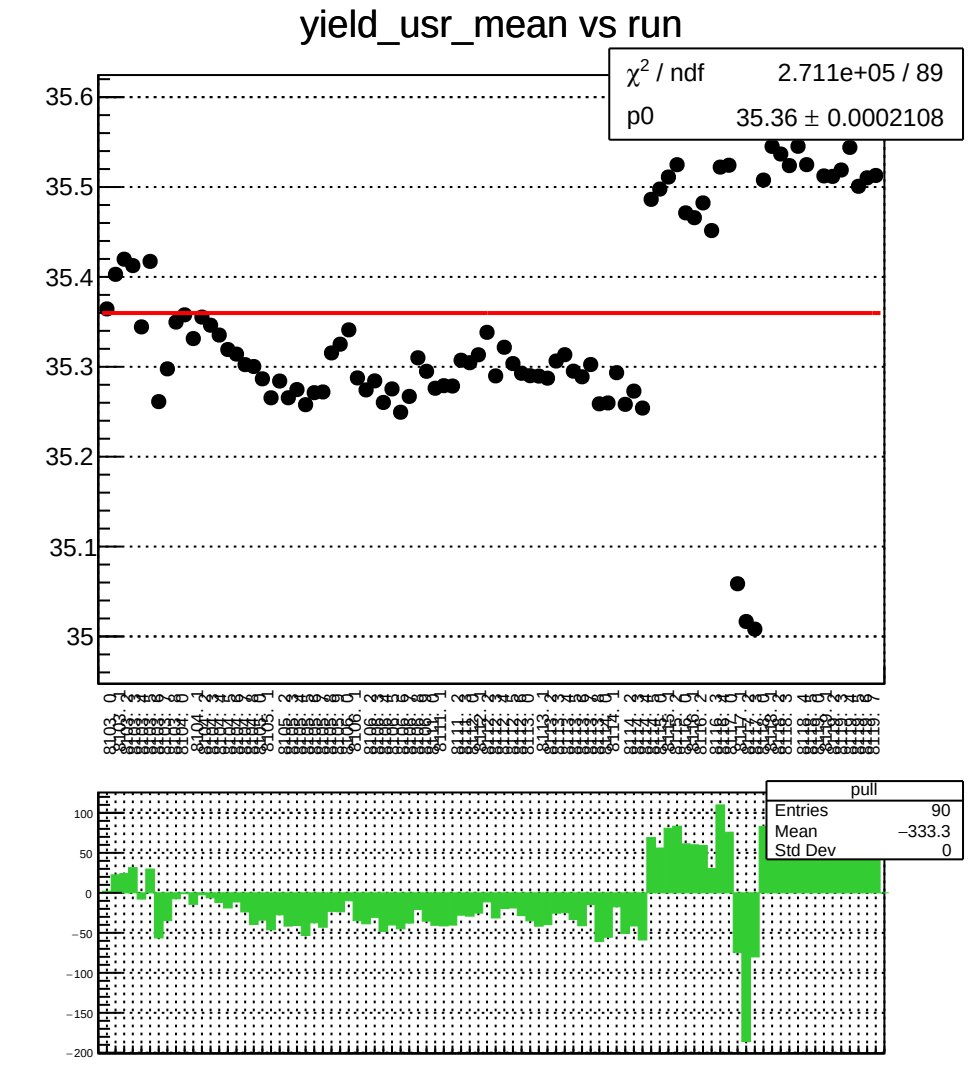

pull1D
Entries 90
Mean −0.006458
Std Dev 0.8891

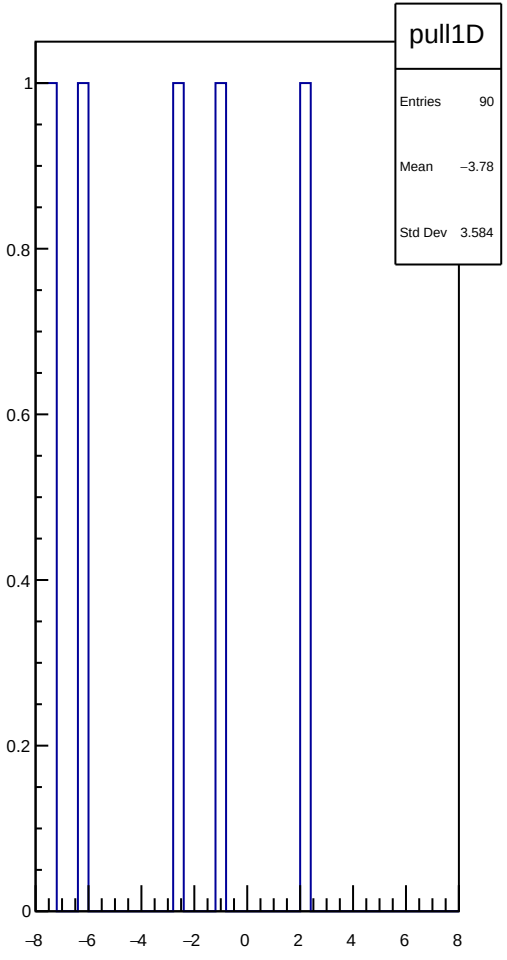

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.254e+05 / 89
p0 2.297e−11 ± 2.259e−14
0.25
0.2
0.15
0.1
0.05

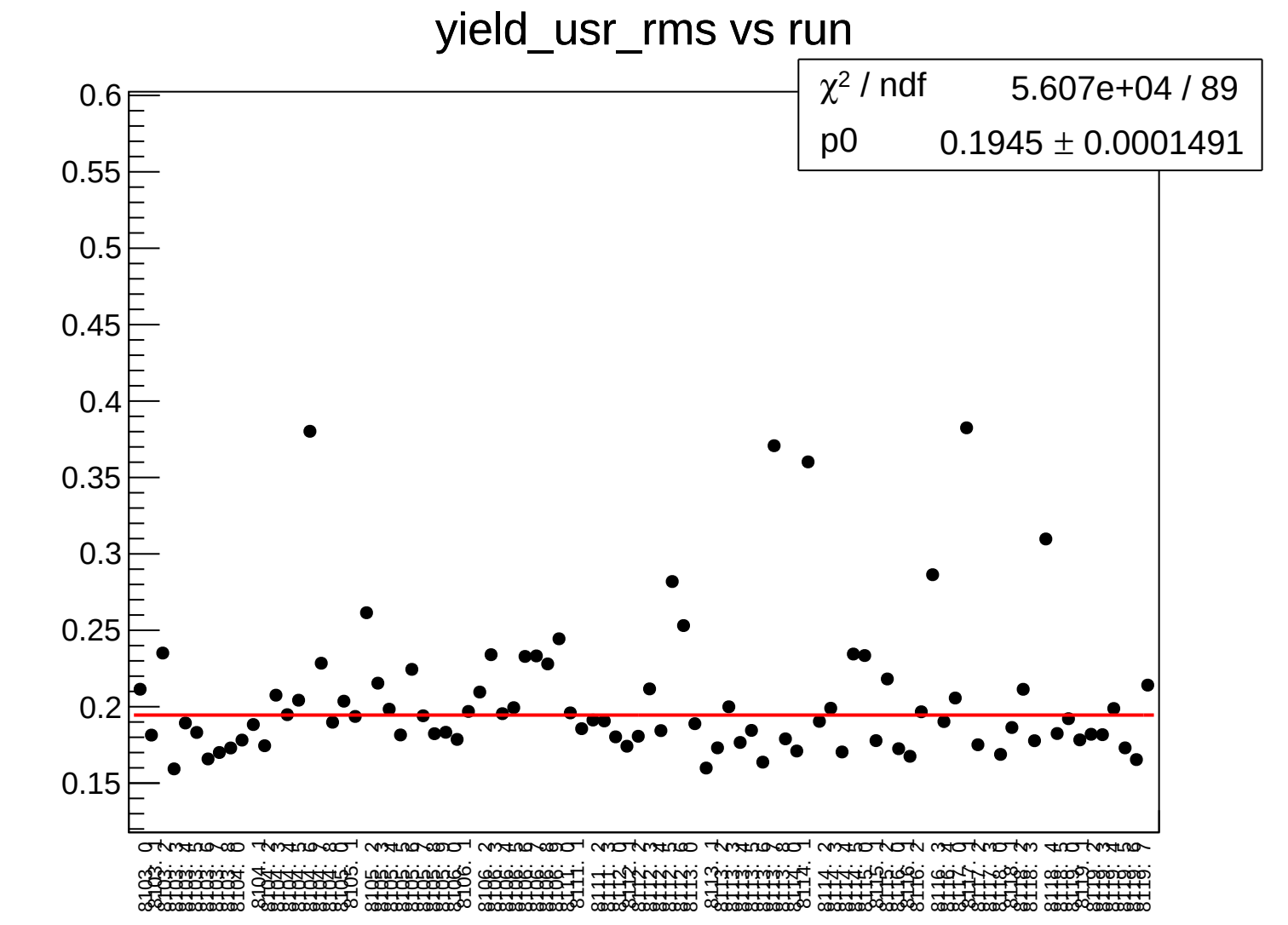

yield_usl_mean vs run
χ² / ndf 9.059e+05 / 89
p0 34.59 ± 0.0001079
34.9
34.8
34.7
34.6
34.5
34.4
34.3
34.2
pull
Entries 90
Mean −487.9
Std Dev 0
200
100
0
−100
−200
−300

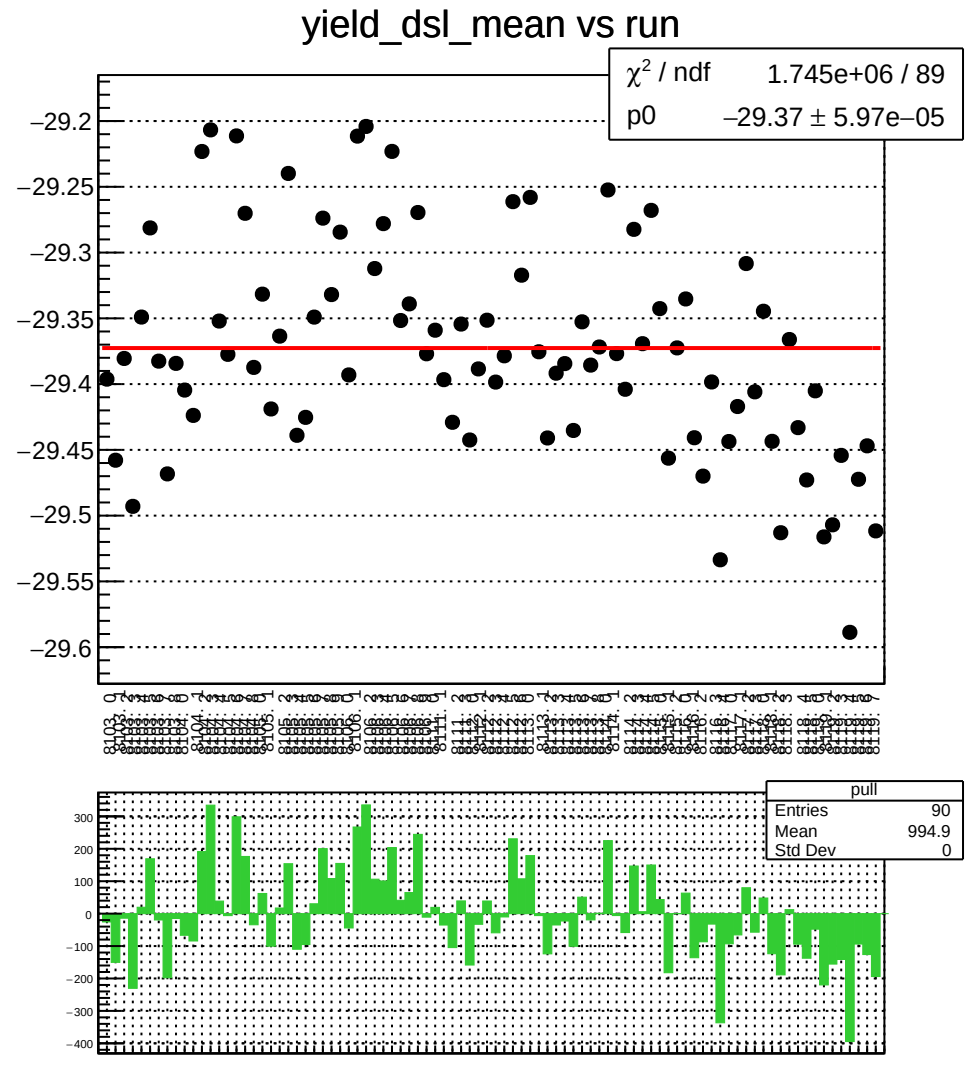

pull1D
Entries 90
Mean −2.876
Std Dev 1.422
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

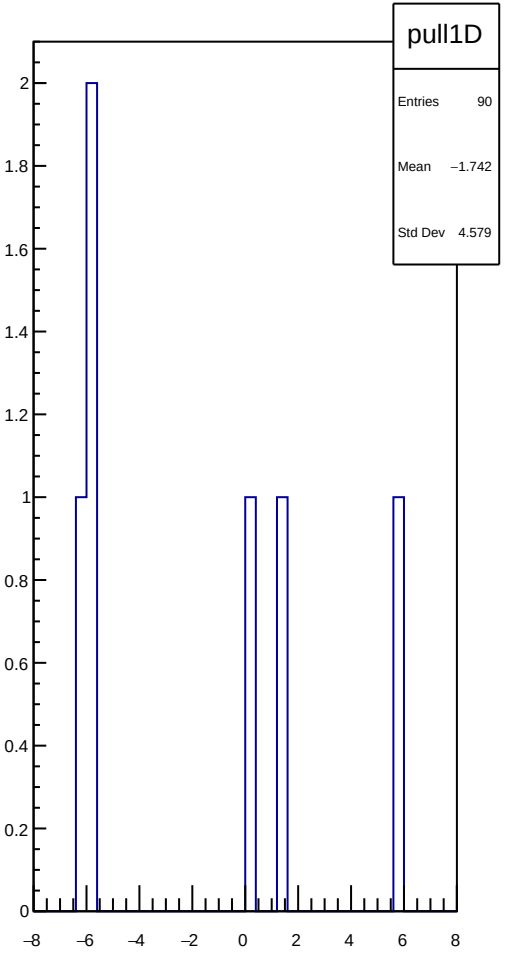

yield_usl_rms vs run
χ² / ndf 3.918e+04 / 89
p0 0.1 ± 7.628e–05
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

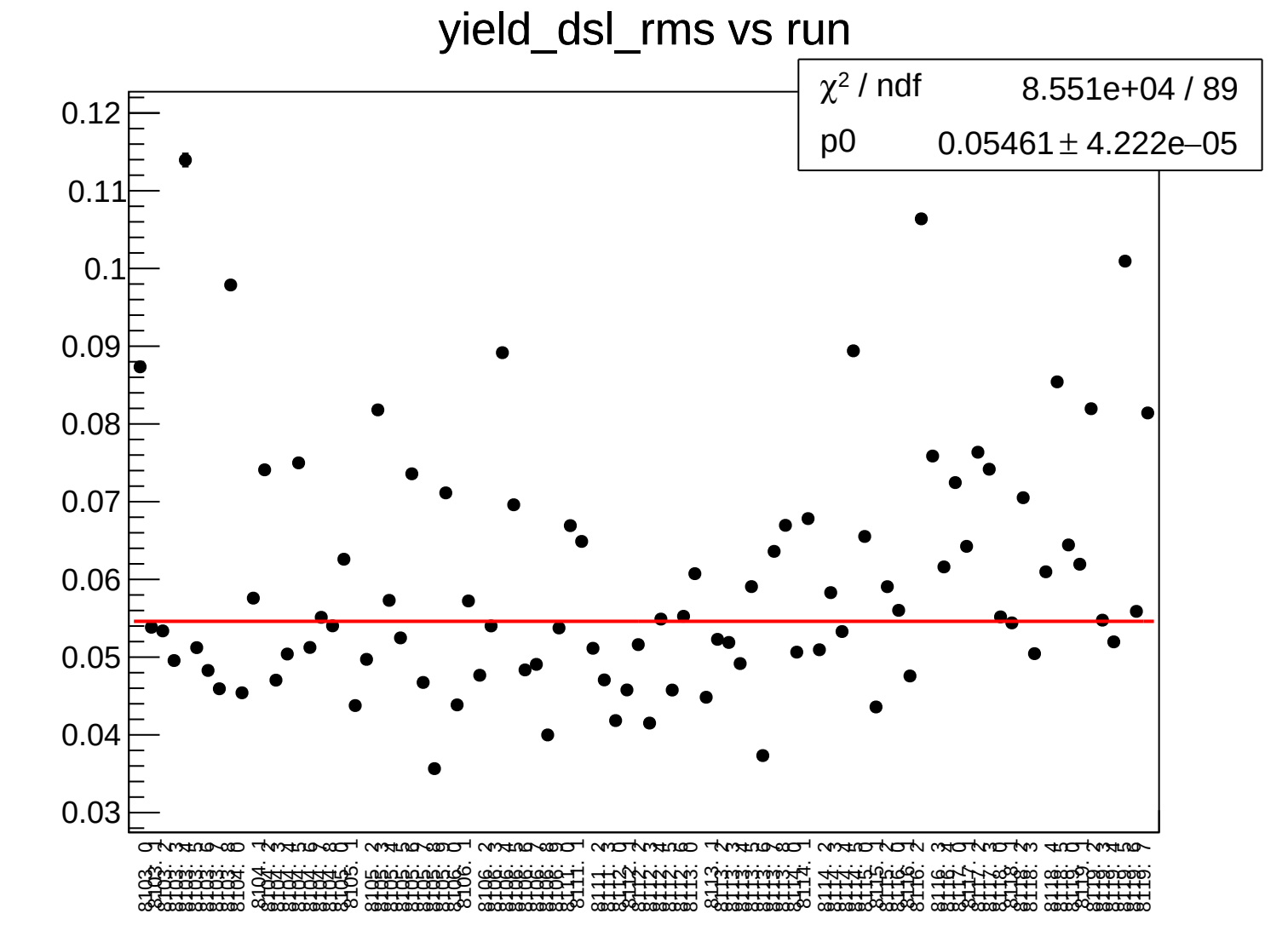

yield_usr_mean vs run
χ² / ndf 2.711e+05 / 89
p0 35.36 ± 0.0002108
35.6
35.5
35.4
35.3
35.2
35.1
35
pull
Entries 90
Mean −333.3
Std Dev 0
100
50
0
−50
−100
−150
−200

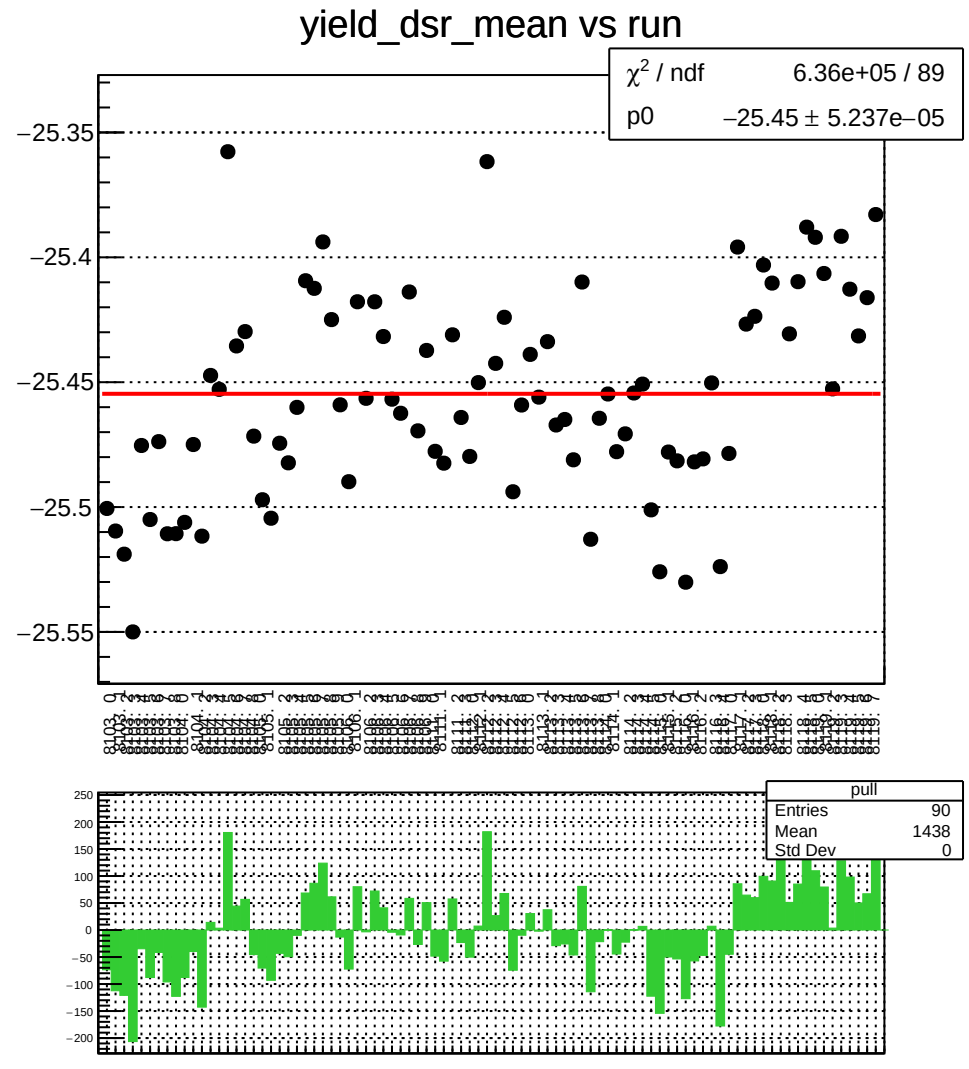

pull1D
Entries 90
Mean −3.78
Std Dev 3.584
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

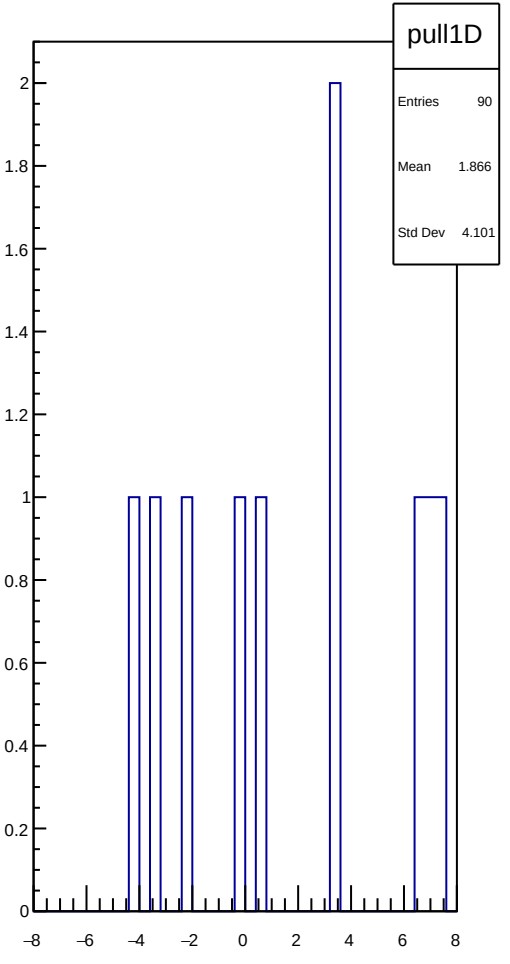

yield_usr_rms vs run
χ² / ndf 5.607e+04 / 89
p0 0.1945 ± 0.0001491
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

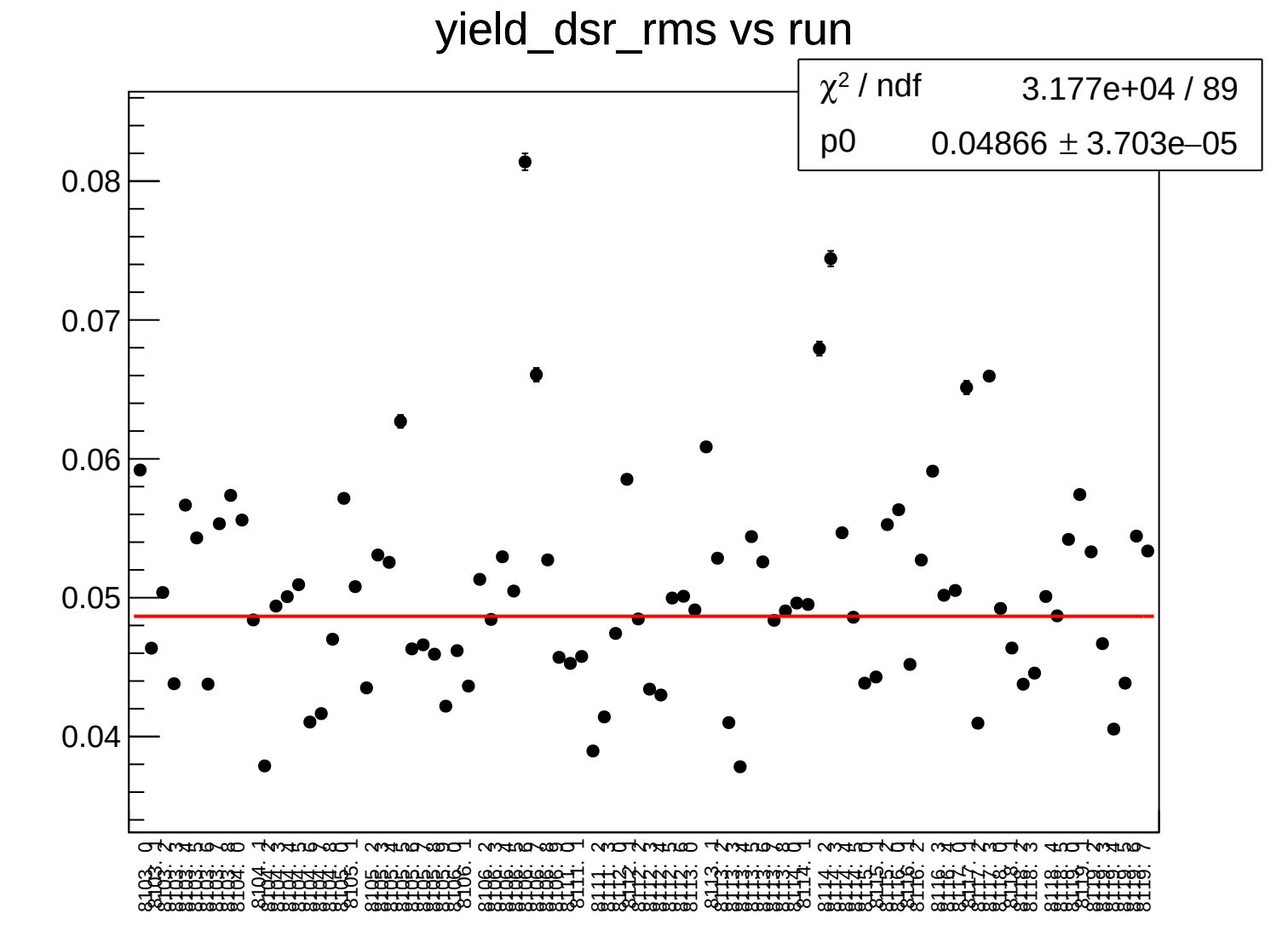

yield_dsl_mean vs run
χ² / ndf 1.745e+06 / 89
p0 −29.37 ± 5.97e−05
−29.2
−29.25
−29.3
−29.35
−29.4
−29.45
−29.5
−29.55
−29.6
pull
Entries 90
Mean 994.9
Std Dev 0
300
200
100
0
−100
−200
−300
−400

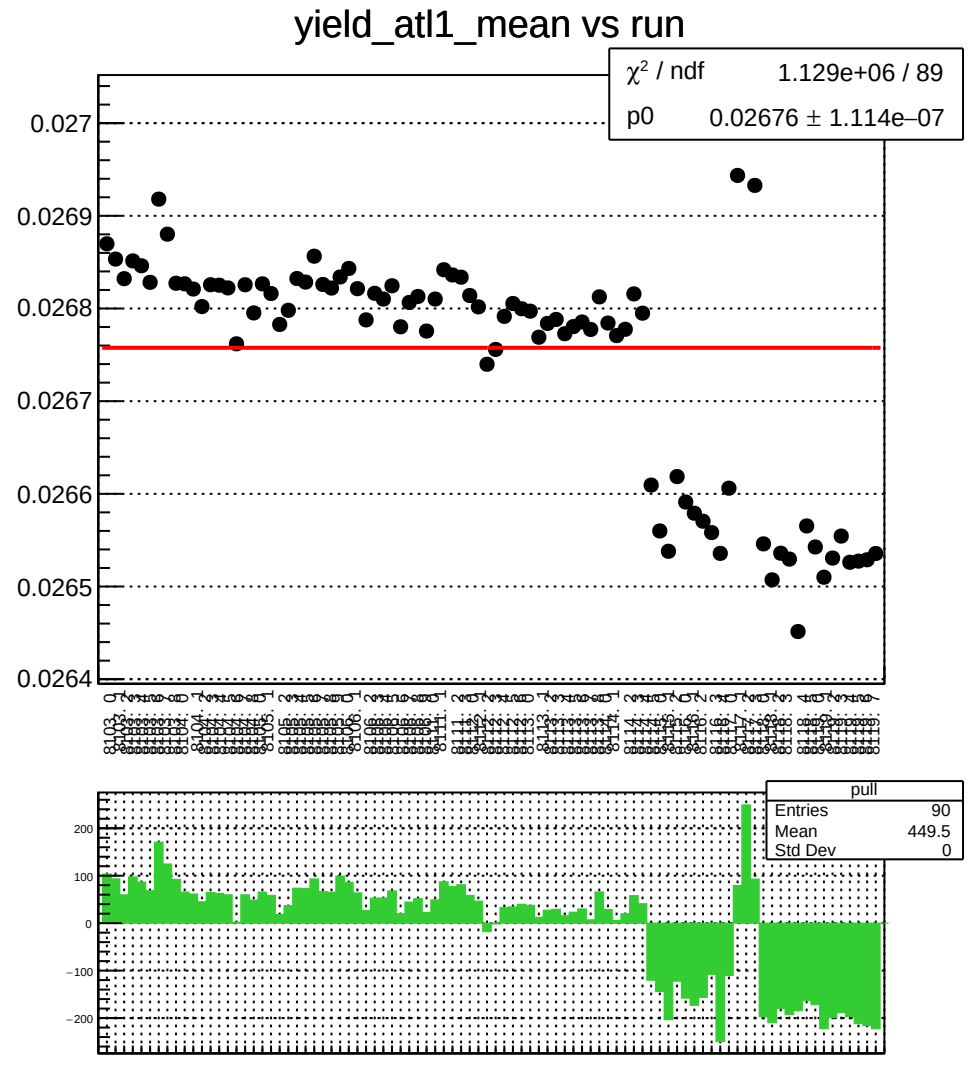

pull1D
Entries 90
Mean −1.742
Std Dev 4.579
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

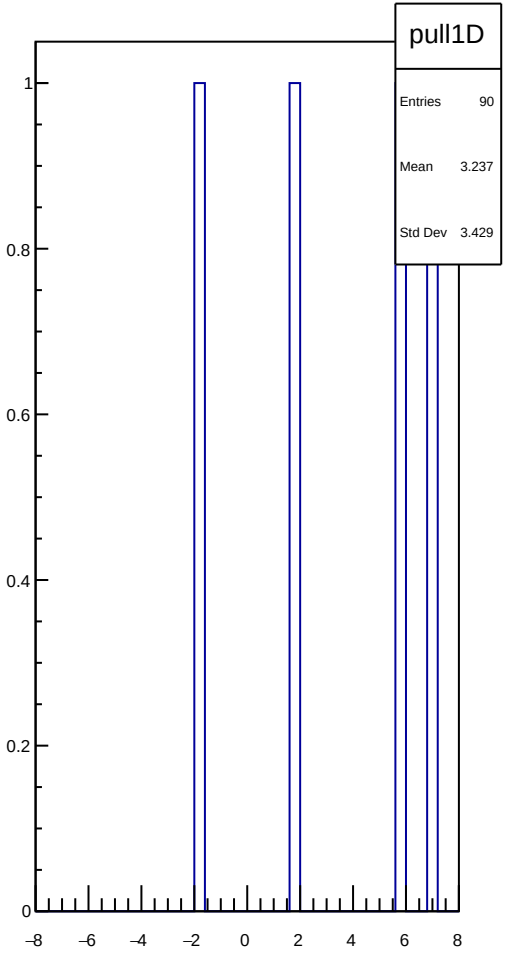

yield_dsl_rms vs run
χ² / ndf 8.551e+04 / 89
p0 0.05461 ± 4.222e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

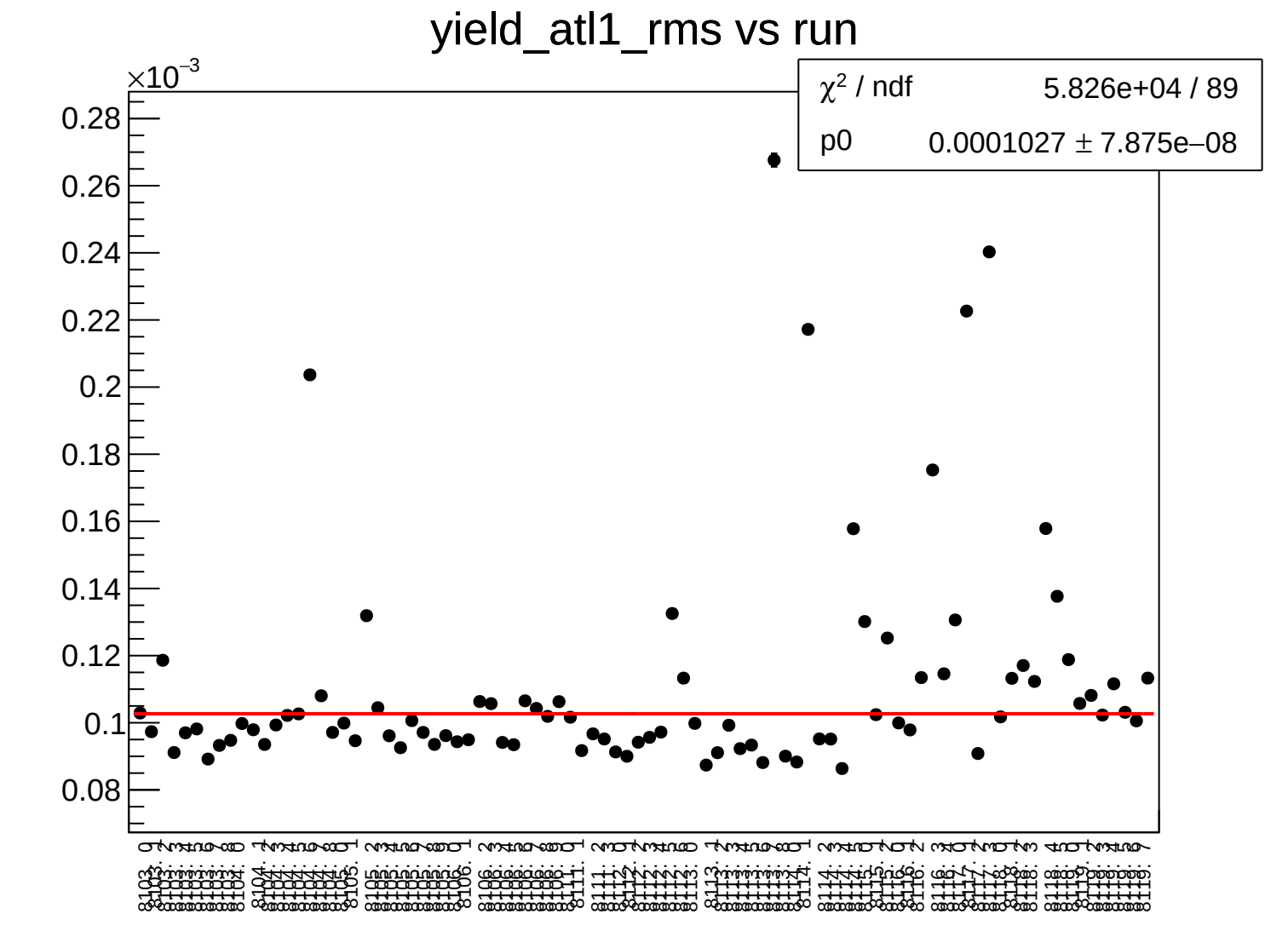

yield_dsr_mean vs run
χ² / ndf 6.36e+05 / 89
p0 −25.45 ± 5.237e−05
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 90
Mean 1438
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

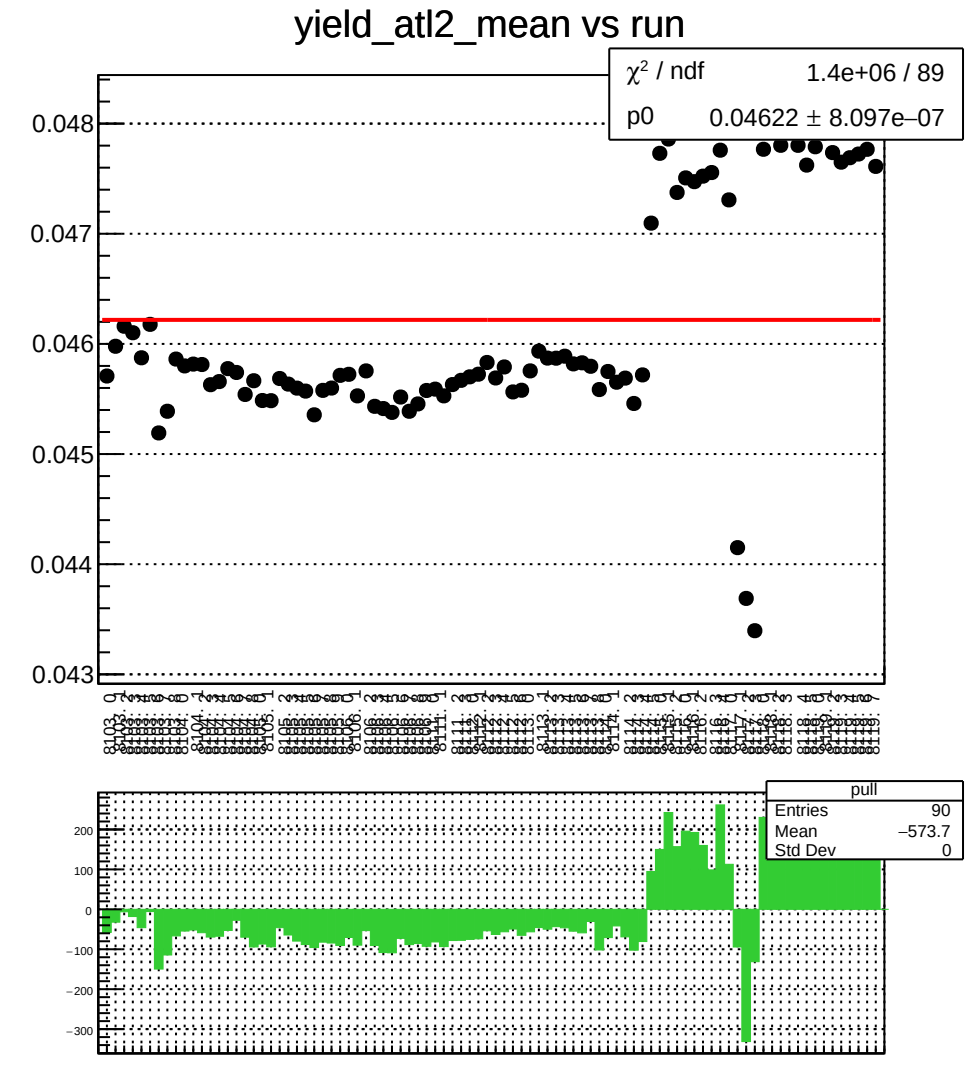

pull1D
Entries 90
Mean 1.866
Std Dev 4.101
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

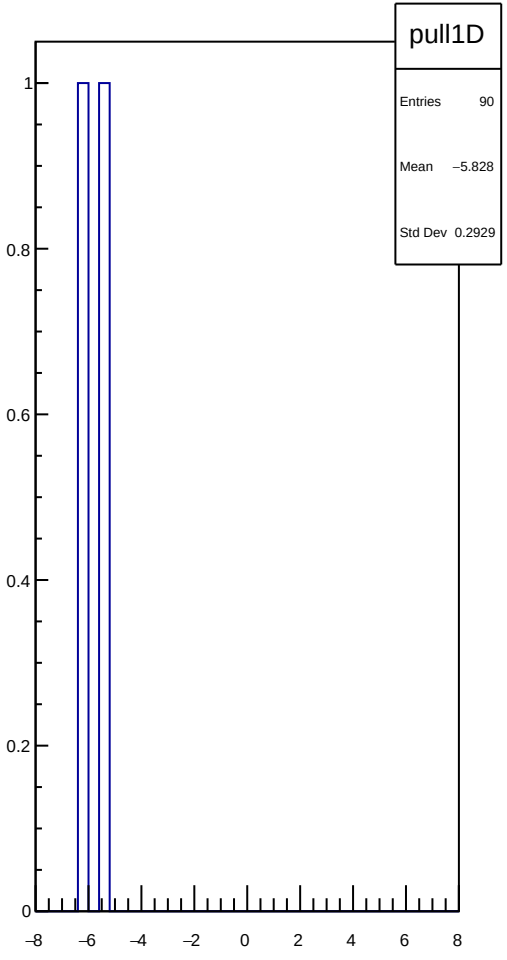

yield_dsr_rms vs run
χ² / ndf 3.177e+04 / 89
p0 0.04866 ± 3.703e–05
0.08
0.07
0.06
0.05
0.04

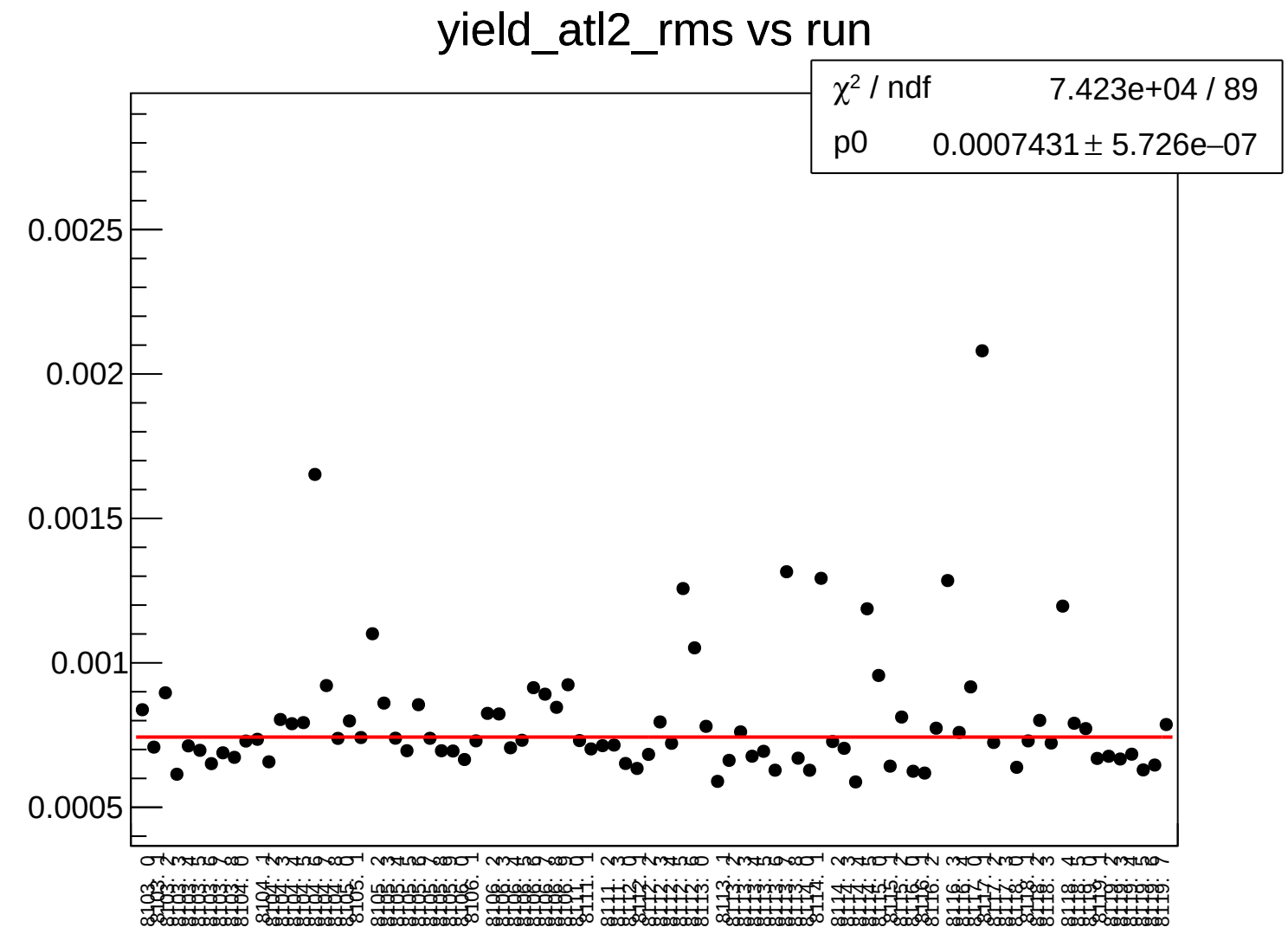

yield_atl1_mean vs run
χ² / ndf 1.129e+06 / 89
p0 0.02676 ± 1.114e−07
0.027
0.0269
0.0268
0.0267
0.0266
0.0265
0.0264
pull
Entries 90
Mean 449.5
Std Dev 0
200
100
0
−100
−200

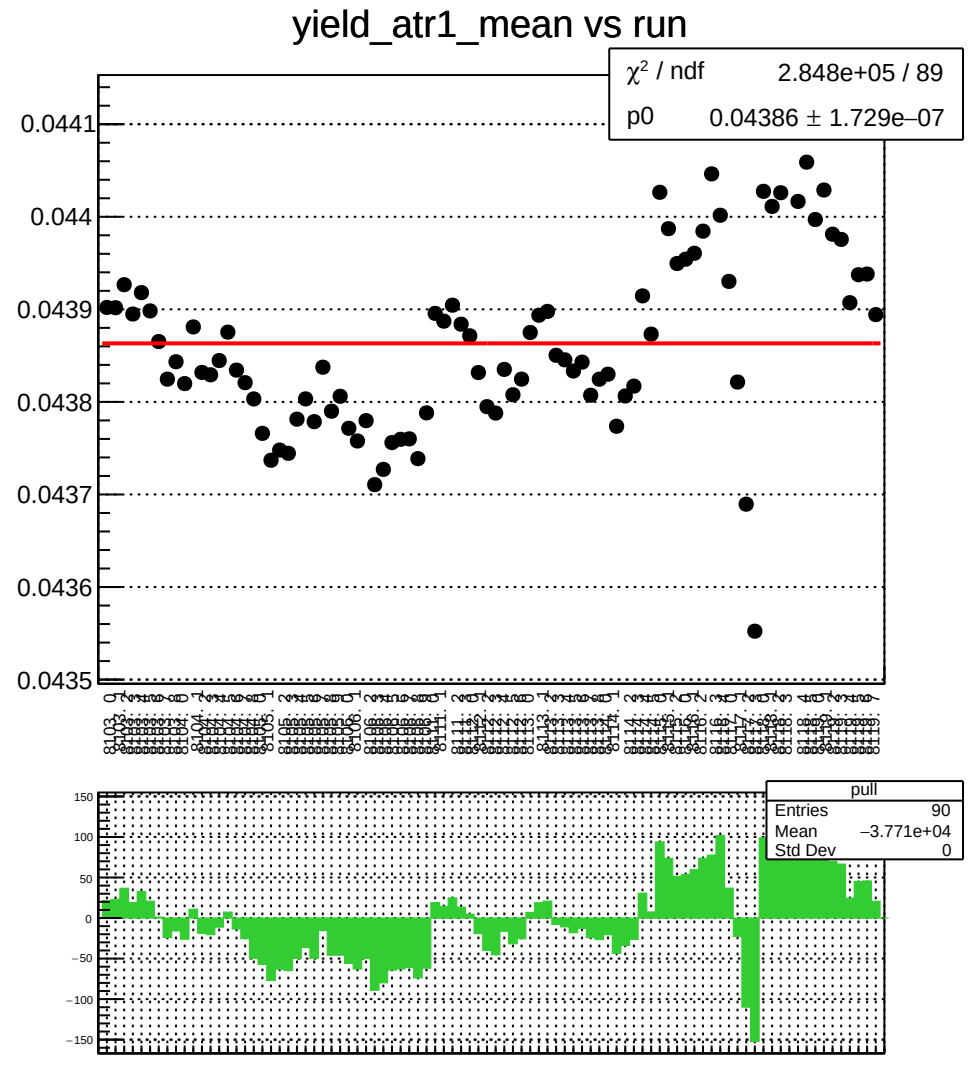

pull1D
Entries 90
Mean 3.237
Std Dev 3.429
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

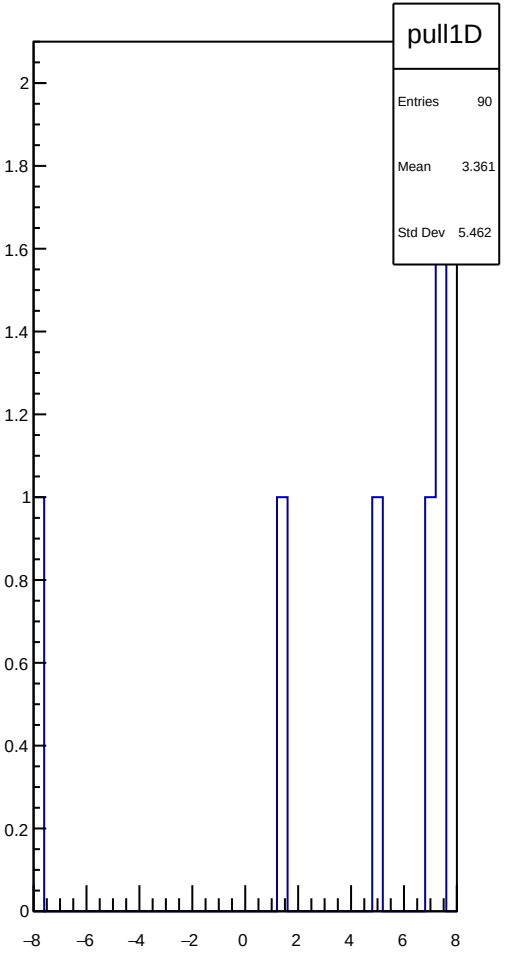

yield_atl1_rms vs run
×10⁻³
χ² / ndf 5.826e+04 / 89
p0 0.0001027 ± 7.875e−08
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

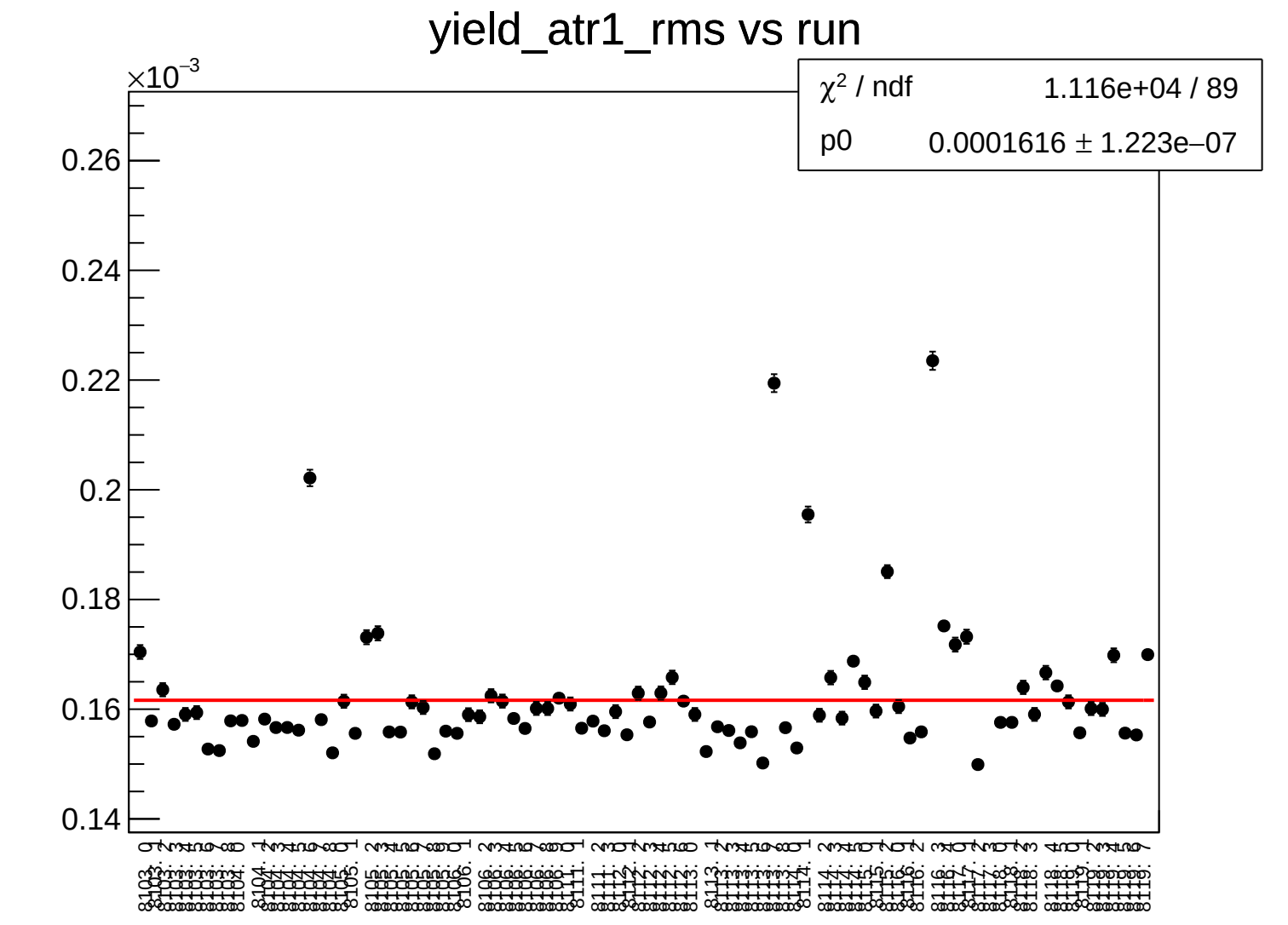

yield_atl2_mean vs run
χ² / ndf 1.4e+06 / 89
p0 0.04622 ± 8.097e−07
0.048
0.047
0.046
0.045
0.044
0.043
pull
Entries 90
Mean −573.7
Std Dev 0
200
100
0
−100
−200
−300

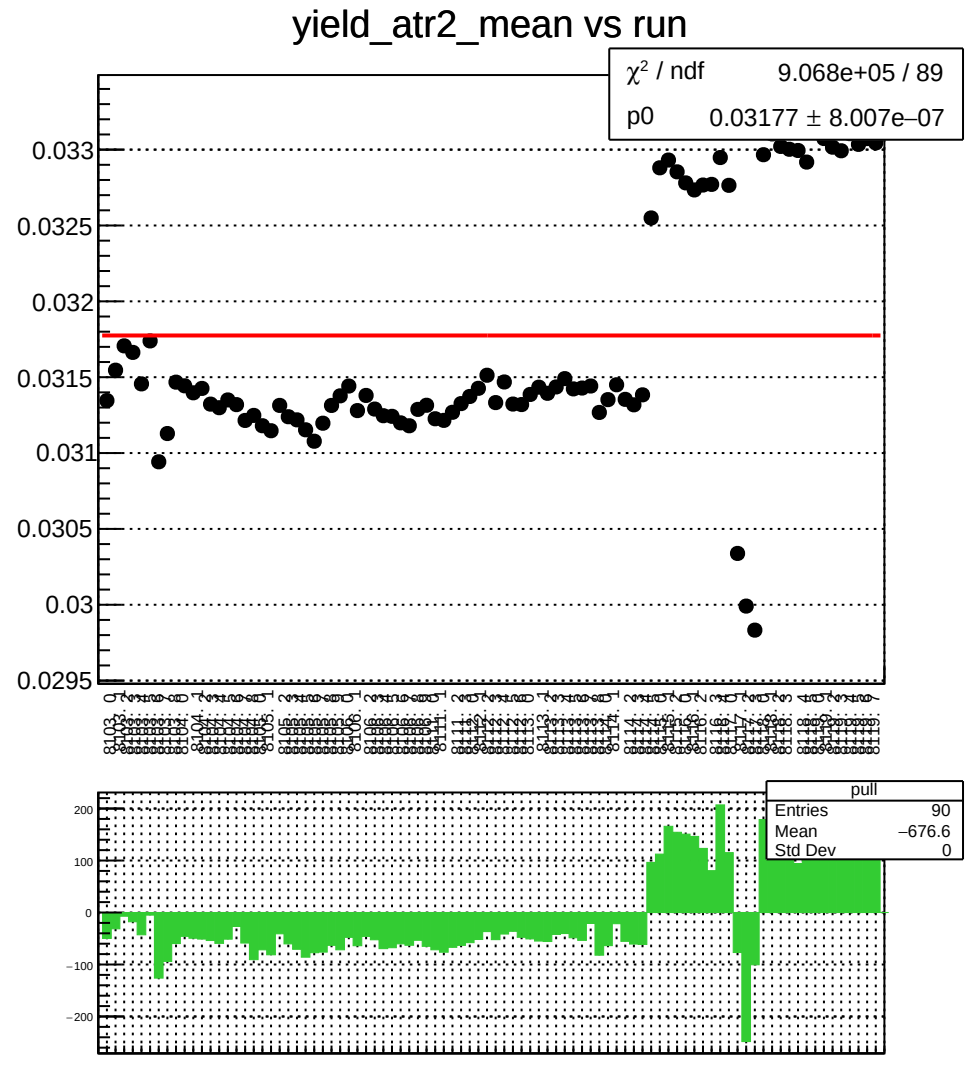

pull1D
Entries 90
Mean −5.828
Std Dev 0.2929
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

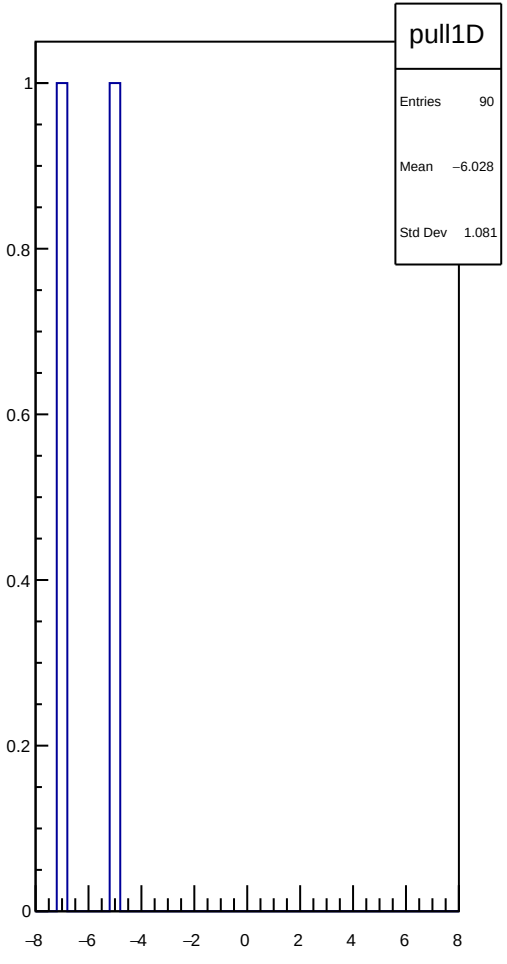

yield_atl2_rms vs run
χ² / ndf 7.423e+04 / 89
p0 0.0007431 ± 5.726e−07
0.0025
0.002
0.0015
0.001
0.0005

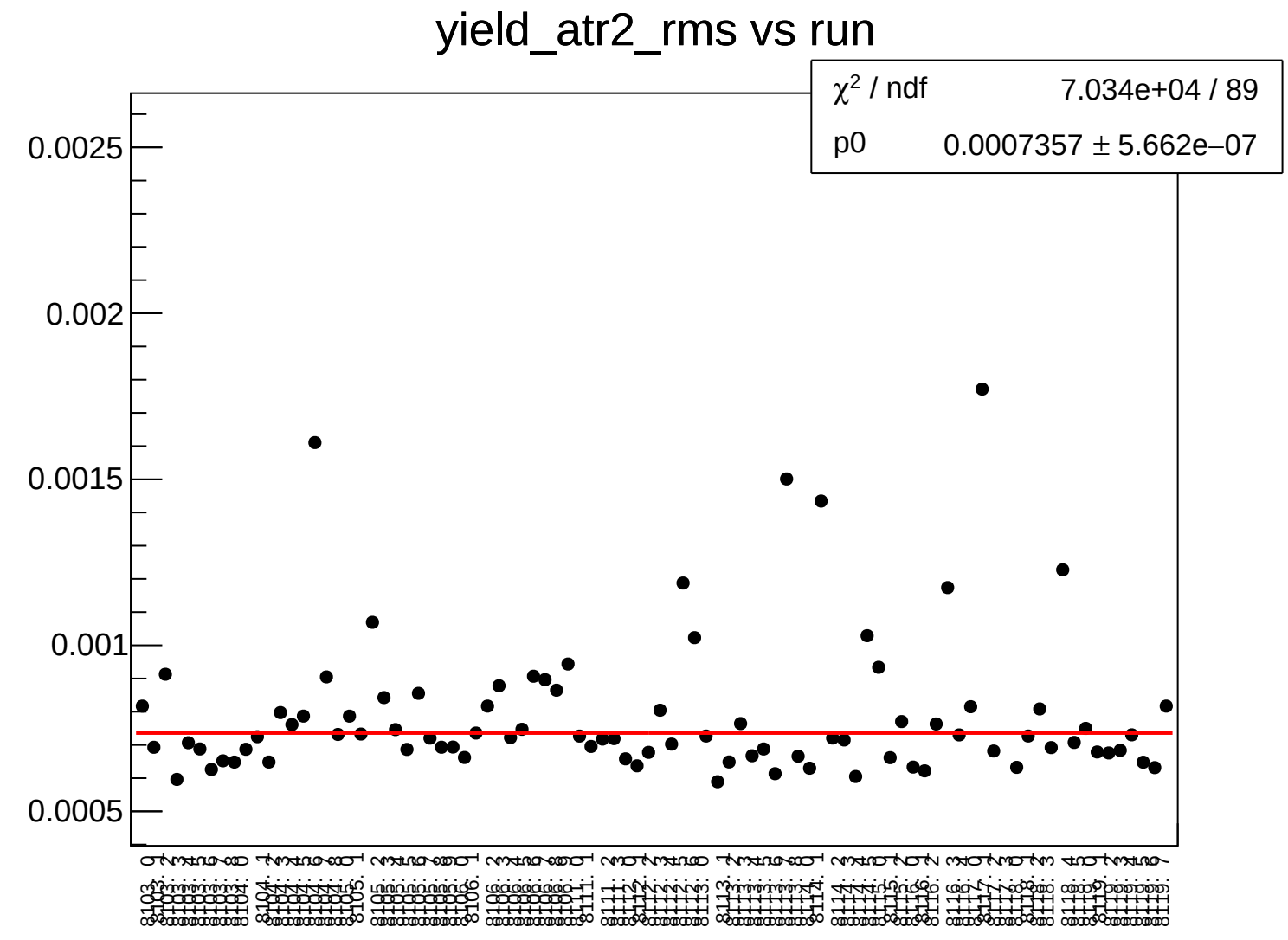

yield_atr1_mean vs run
χ² / ndf 2.848e+05 / 89
p0 0.04386 ± 1.729e–07
0.0441
0.044
0.0439
0.0438
0.0437
0.0436
0.0435
pull
Entries 90
Mean –3.771e+04
Std Dev 0
150
100
50
0
–50
–100
–150

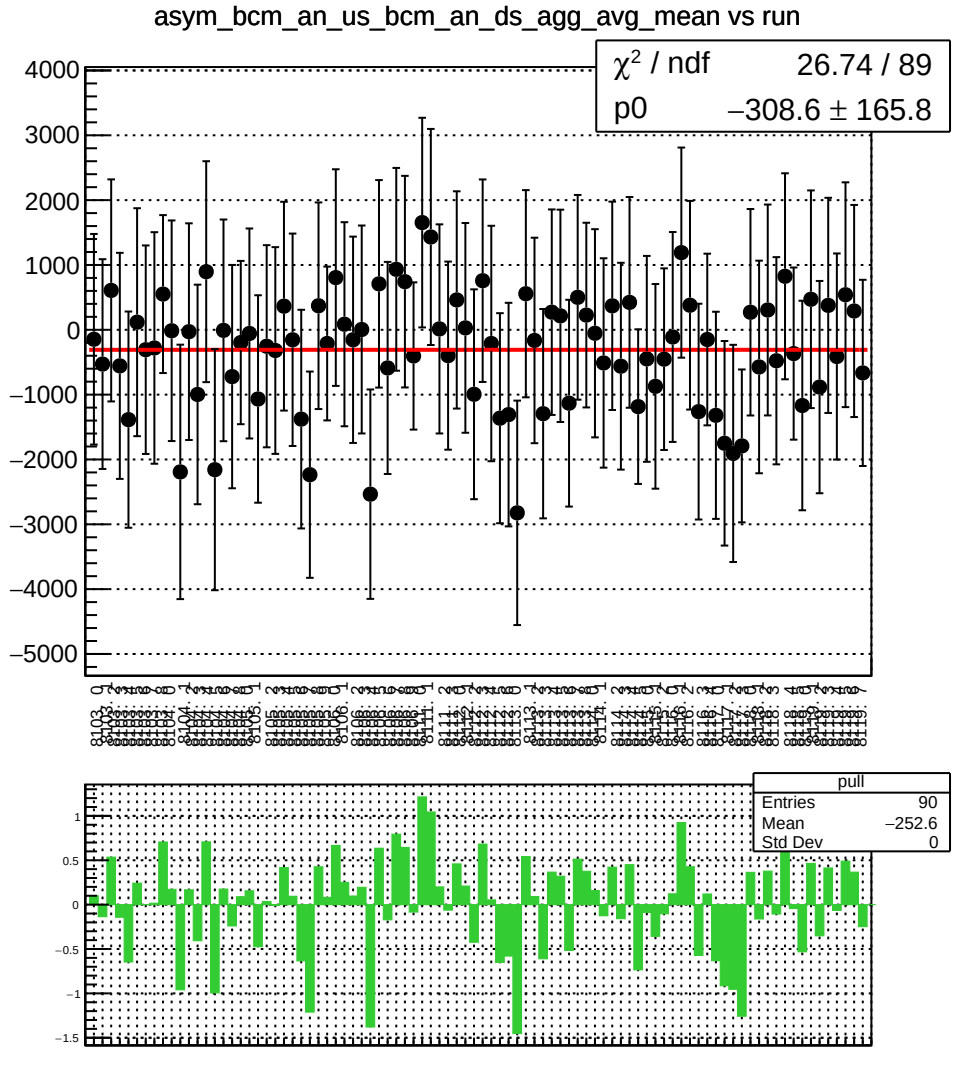

pull1D
Entries 90
Mean 3.361
Std Dev 5.462
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

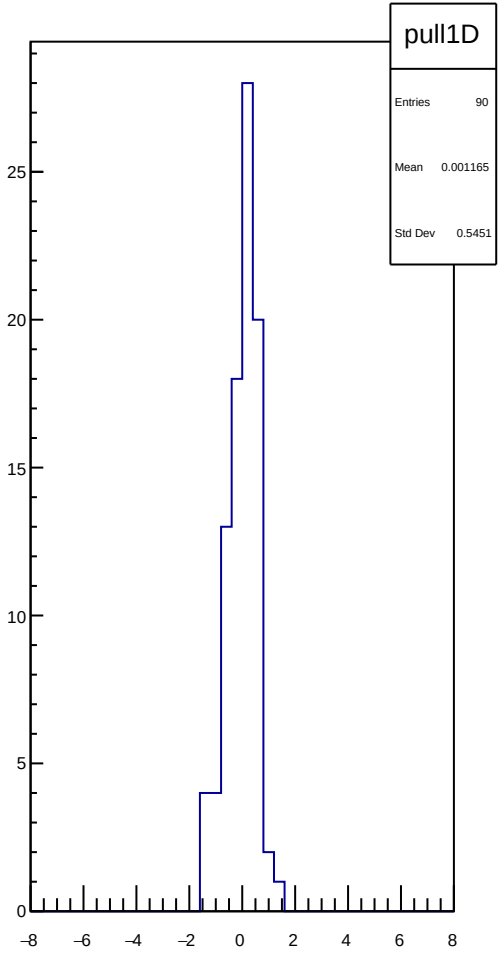

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.116e+04 / 89
p0 0.0001616 ± 1.223e−07
0.26
0.24
0.22
0.2
0.18
0.16
0.14

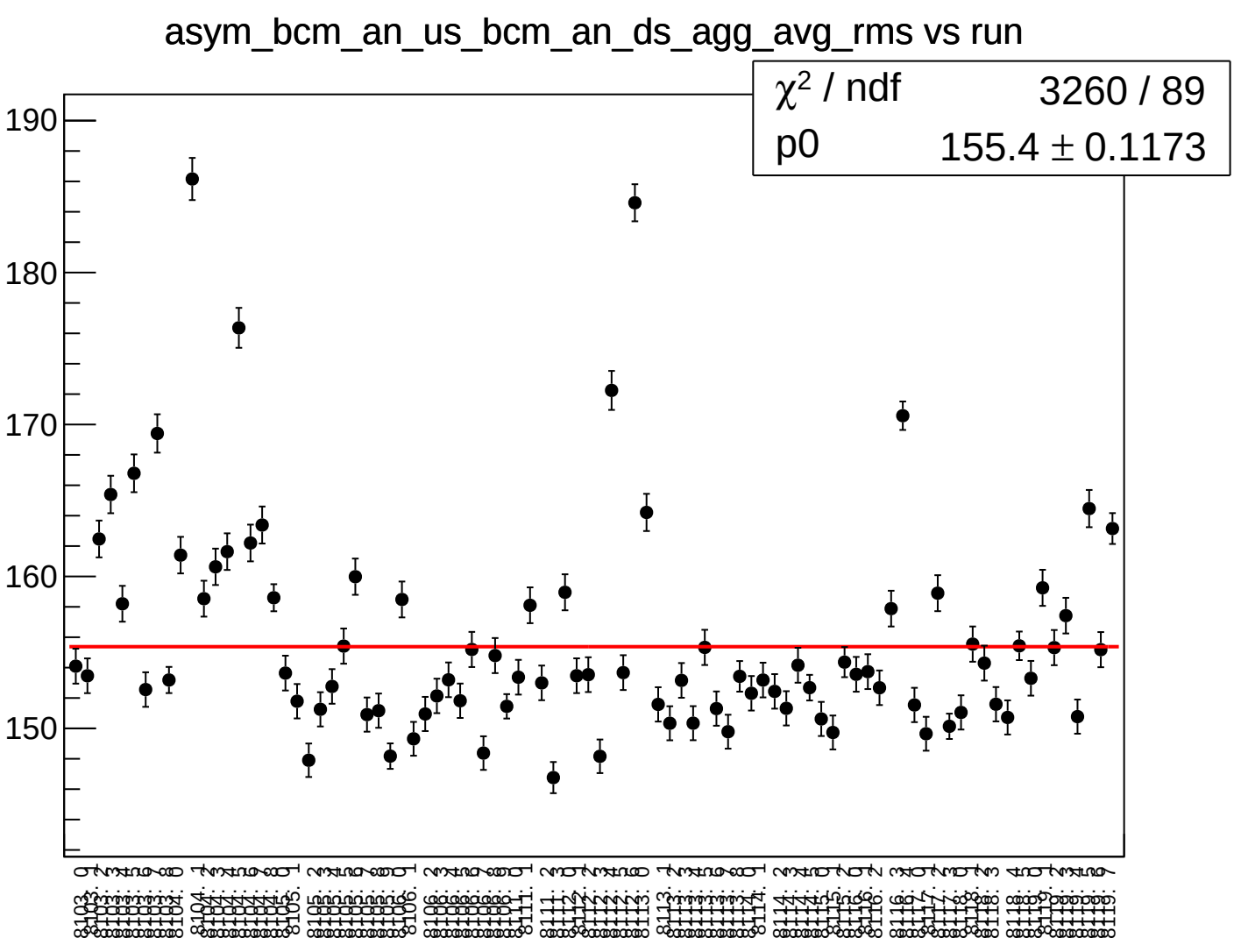

yield_atr2_mean vs run
χ² / ndf 9.068e+05 / 89
p0 0.03177 ± 8.007e−07
0.033
0.0325
0.032
0.0315
0.031
0.0305
0.03
0.0295
pull
Entries 90
Mean −676.6
Std Dev 0
200
100
0
−100
−200

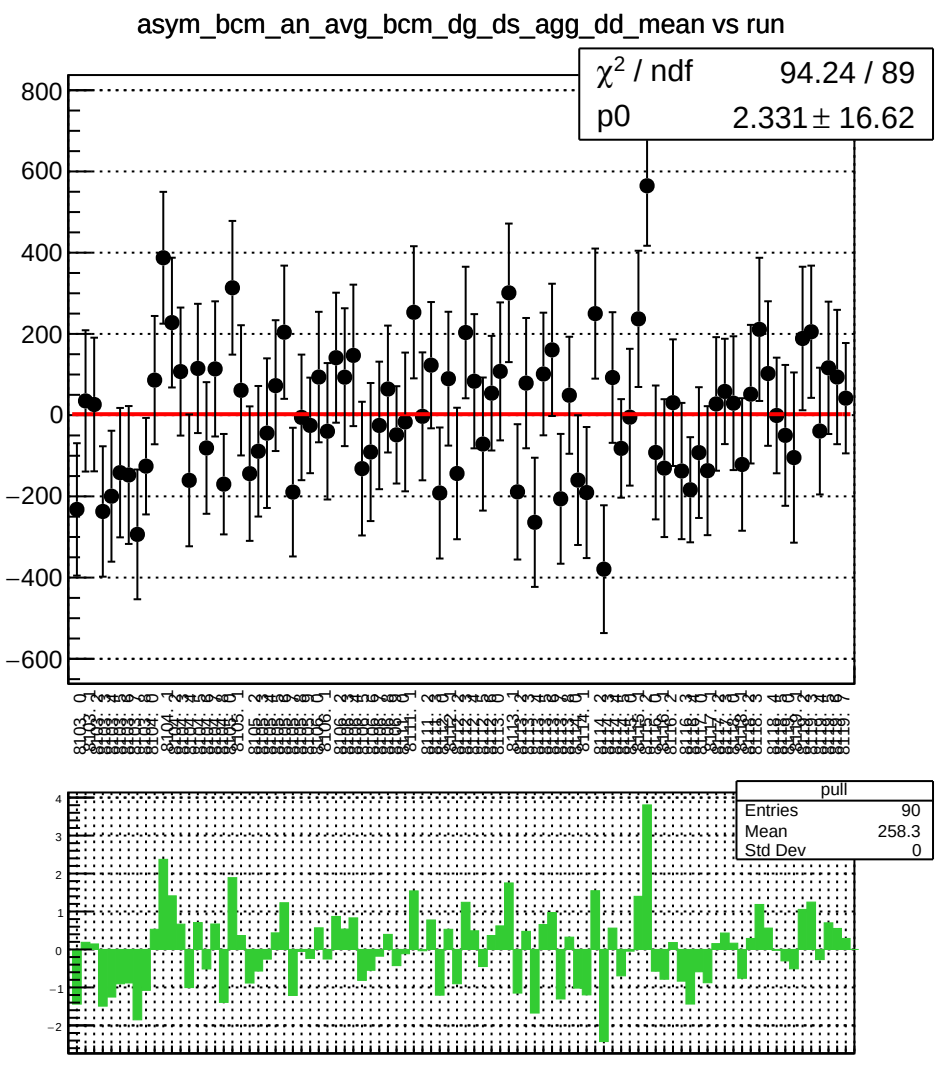

pull1D
Entries 90
Mean −6.028
Std Dev 1.081
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

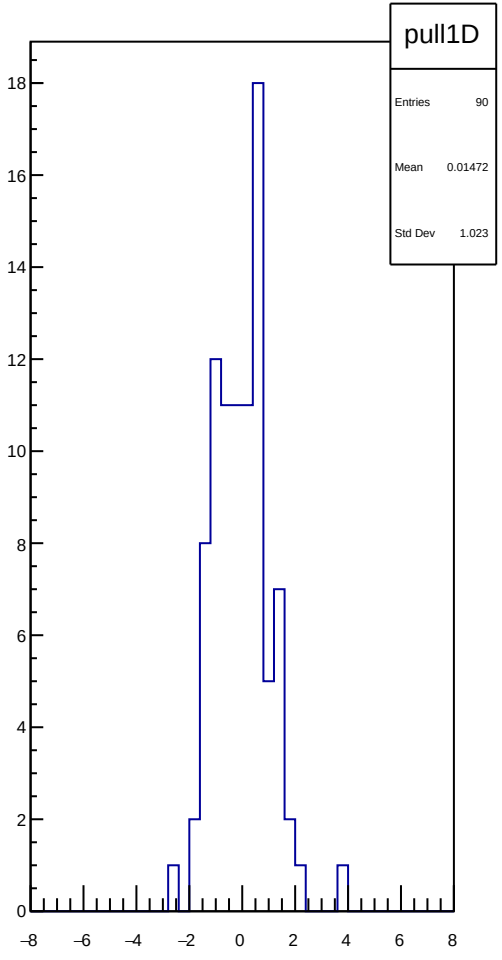

yield_atr2_rms vs run
χ² / ndf 7.034e+04 / 89
p0 0.0007357 ± 5.662e−07
0.0025
0.002
0.0015
0.001
0.0005

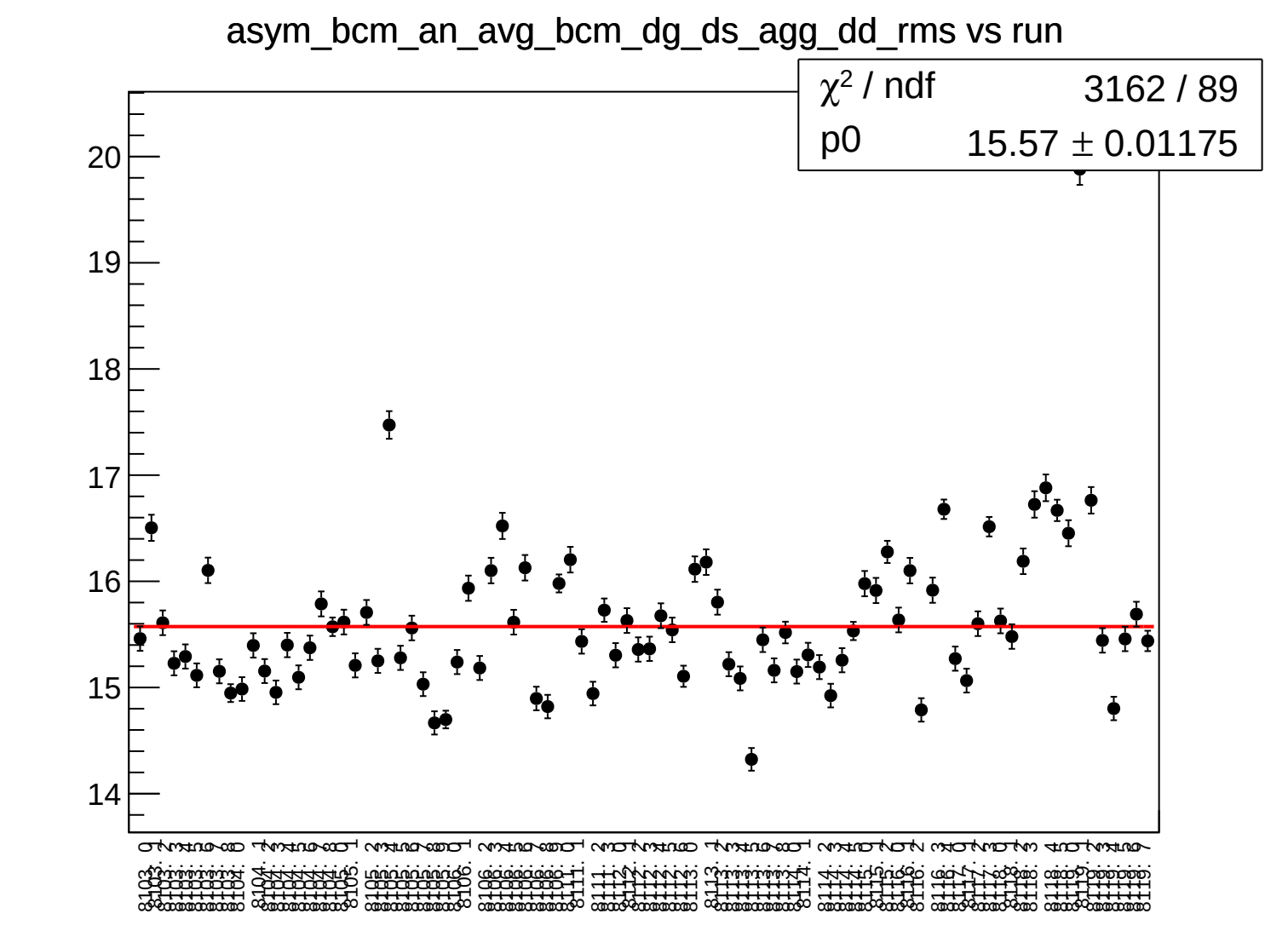

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.74 / 89
p0 −308.6 ± 165.8
pull
Entries 90
Mean −252.6
Std Dev 0

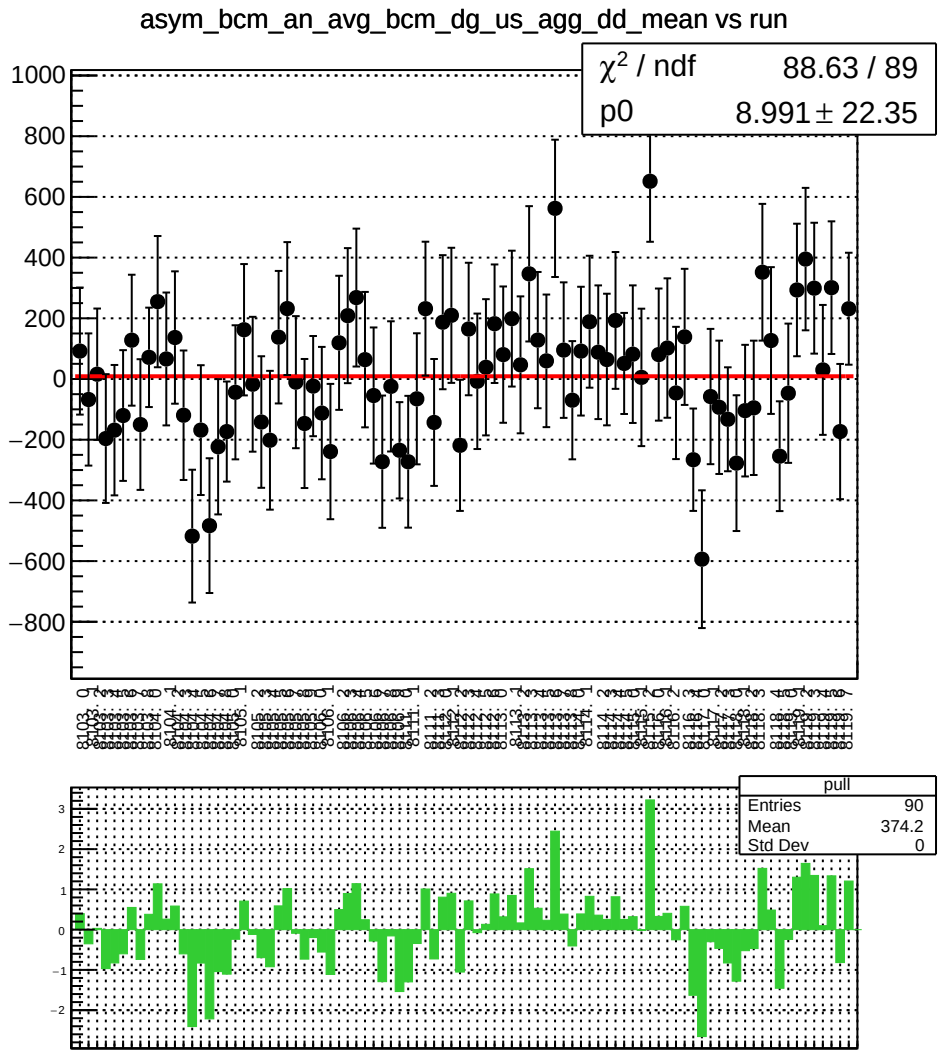

pull1D
Entries 90
Mean 0.001165
Std Dev 0.5451

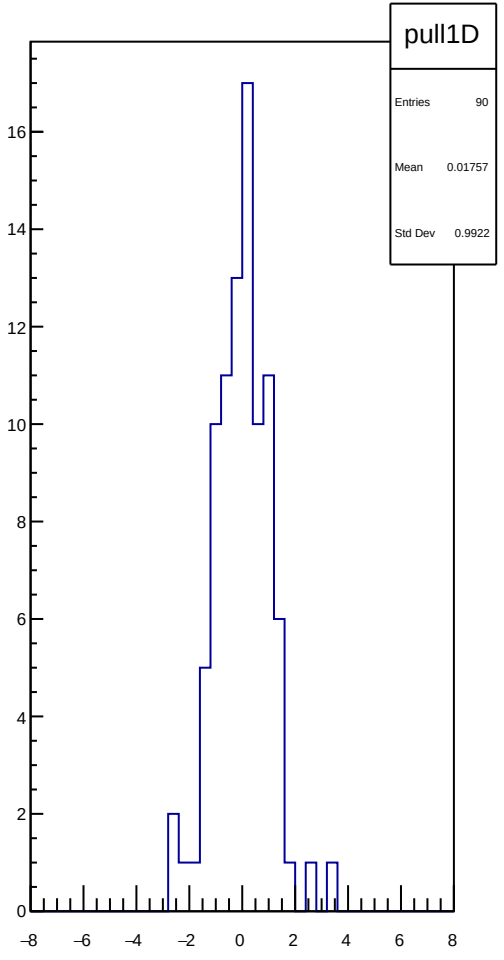

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3260 / 89
p0 155.4 ± 0.1173
190
180
170
160
150

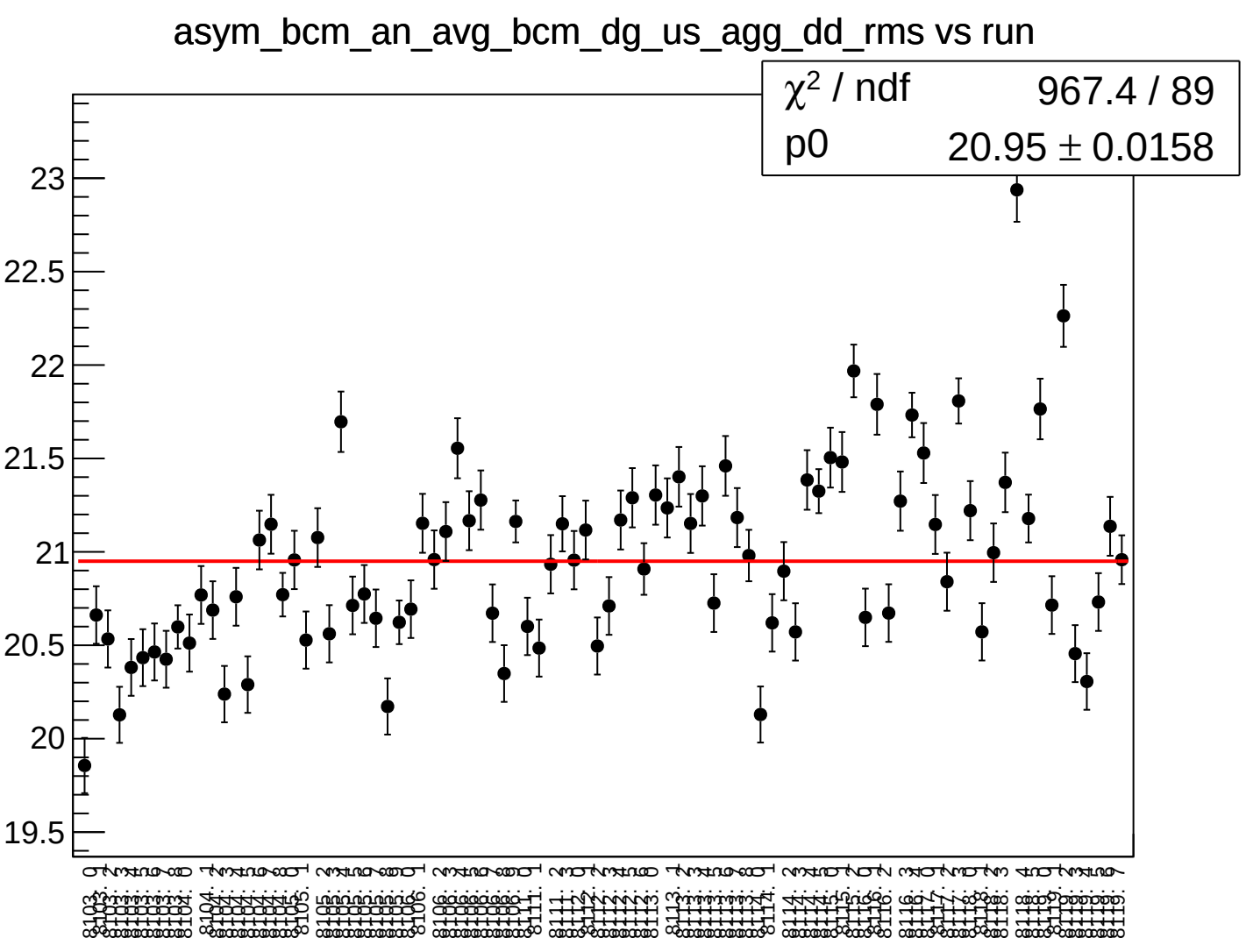

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 94.24 / 89
p0 2.331 ± 16.62
pull
Entries 90
Mean 258.3
Std Dev 0

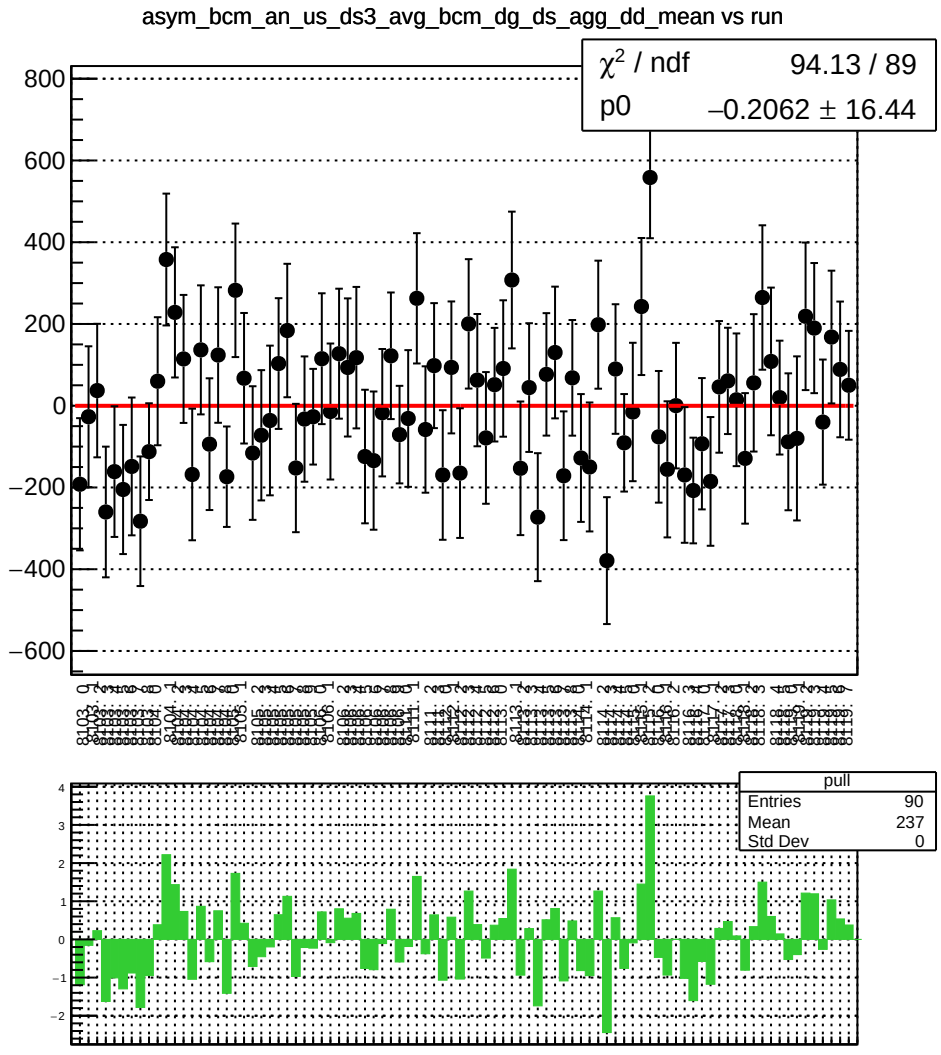

pull1D
Entries 90
Mean 0.01472
Std Dev 1.023

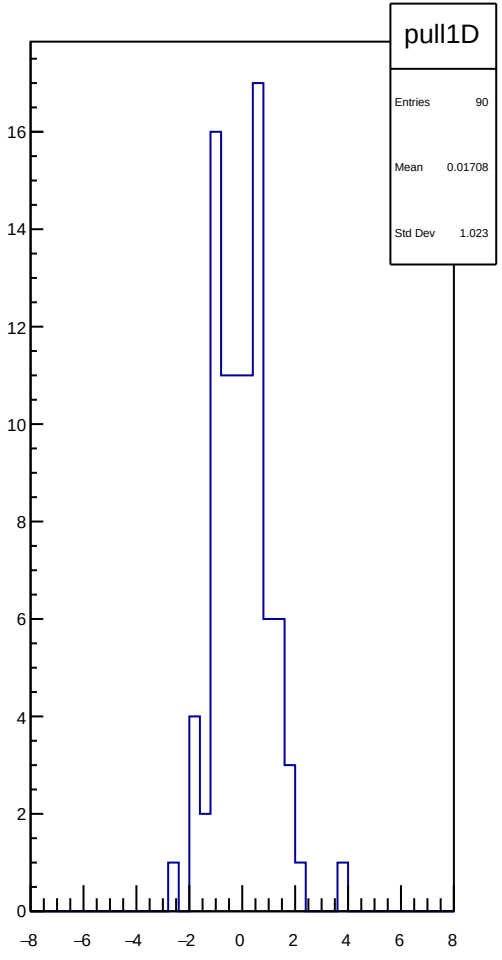

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3162 / 89
p0 15.57 ± 0.01175
20
19
18
17
16
15
14

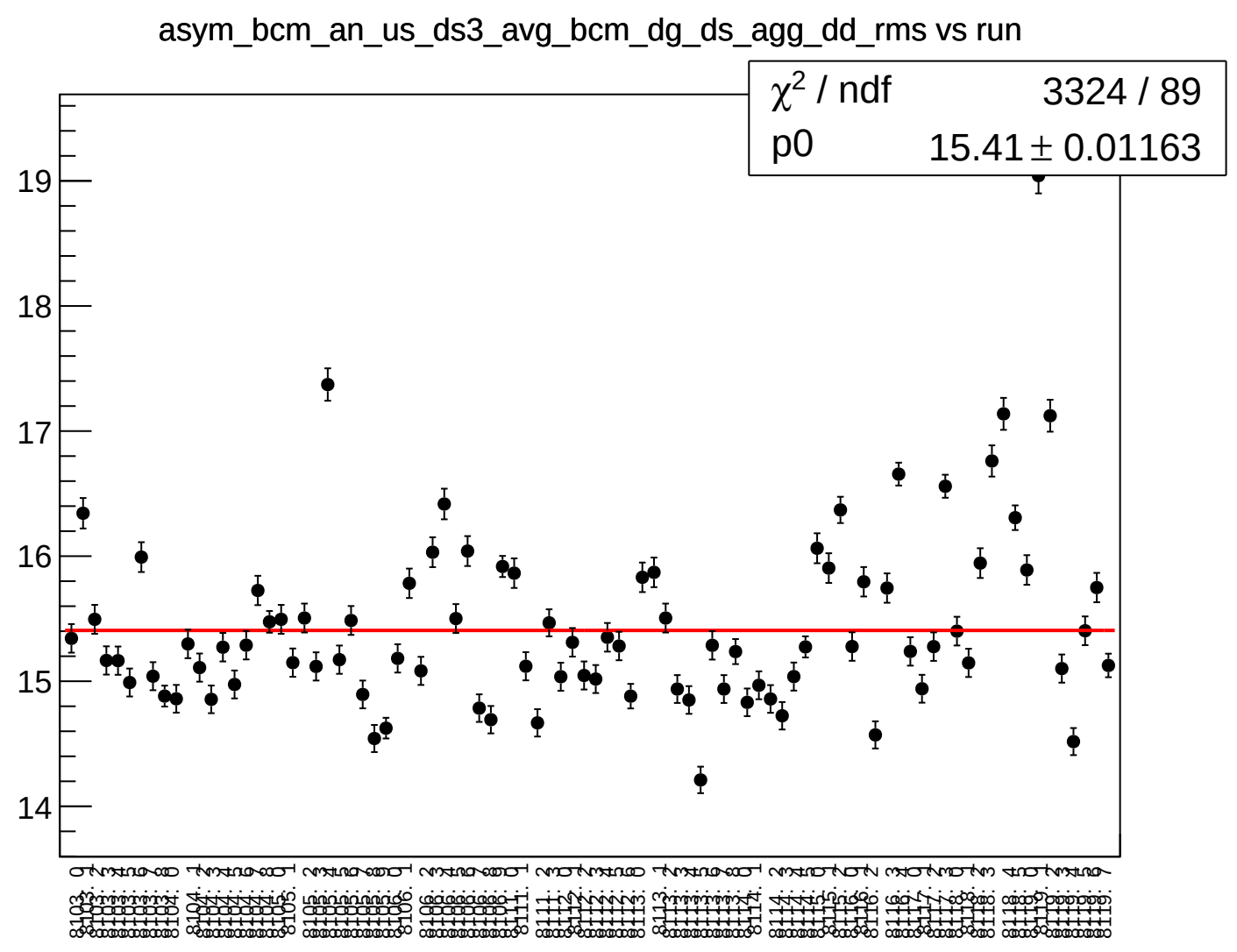

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 88.63 / 89
p0 8.991 ± 22.35
pull
Entries 90
Mean 374.2
Std Dev 0

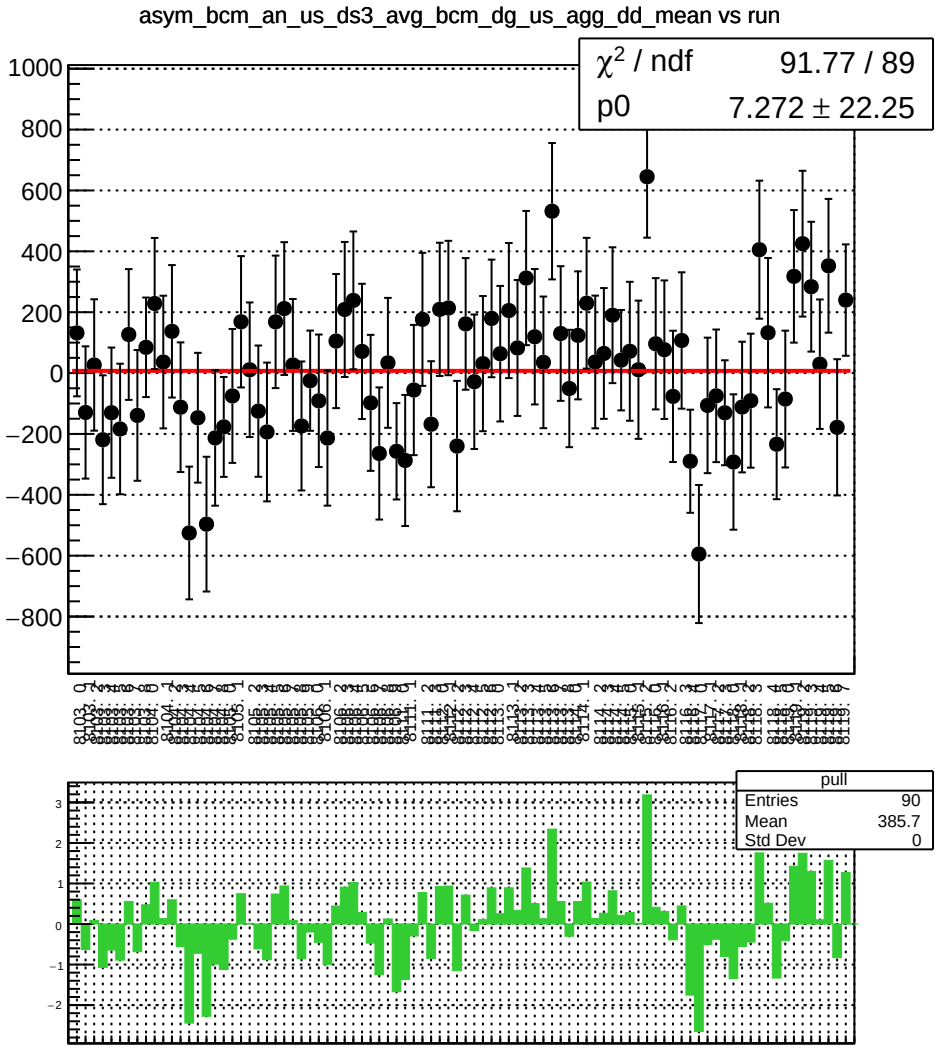

pull1D
Entries 90
Mean 0.01757
Std Dev 0.9922

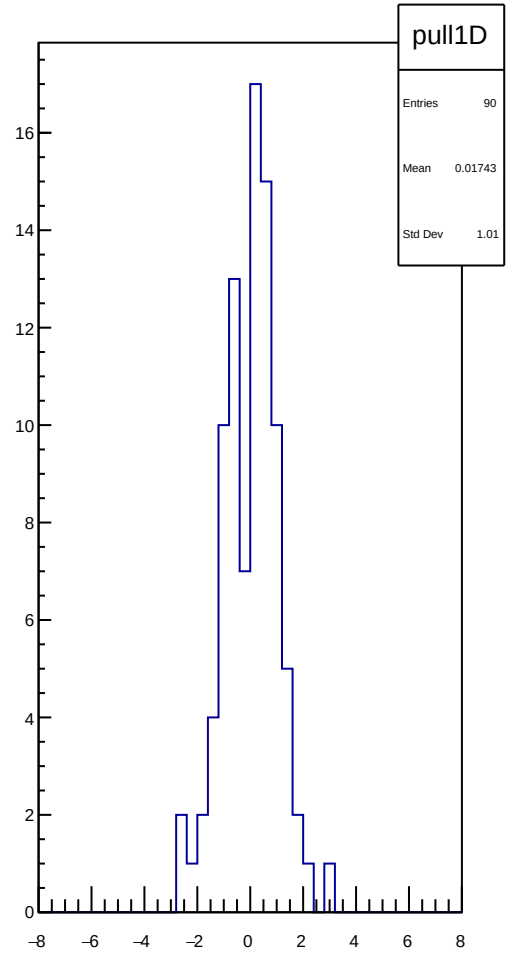

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 967.4 / 89
p0 20.95 ± 0.0158
23
22.5
22
21.5
21
20.5
20
19.5

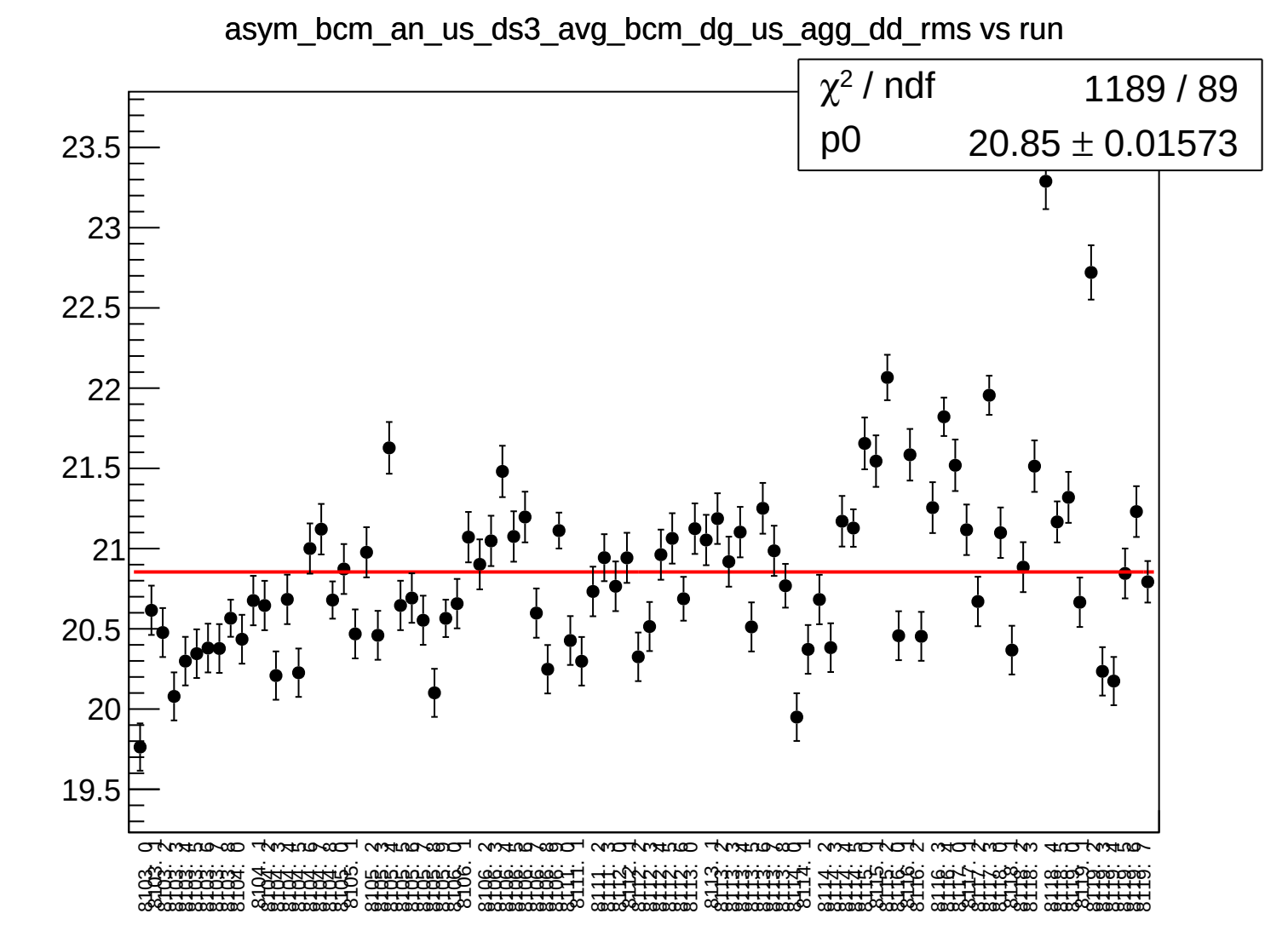

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 94.13 / 89
p0 −0.2062 ± 16.44
pull
Entries 90
Mean 237
Std Dev 0

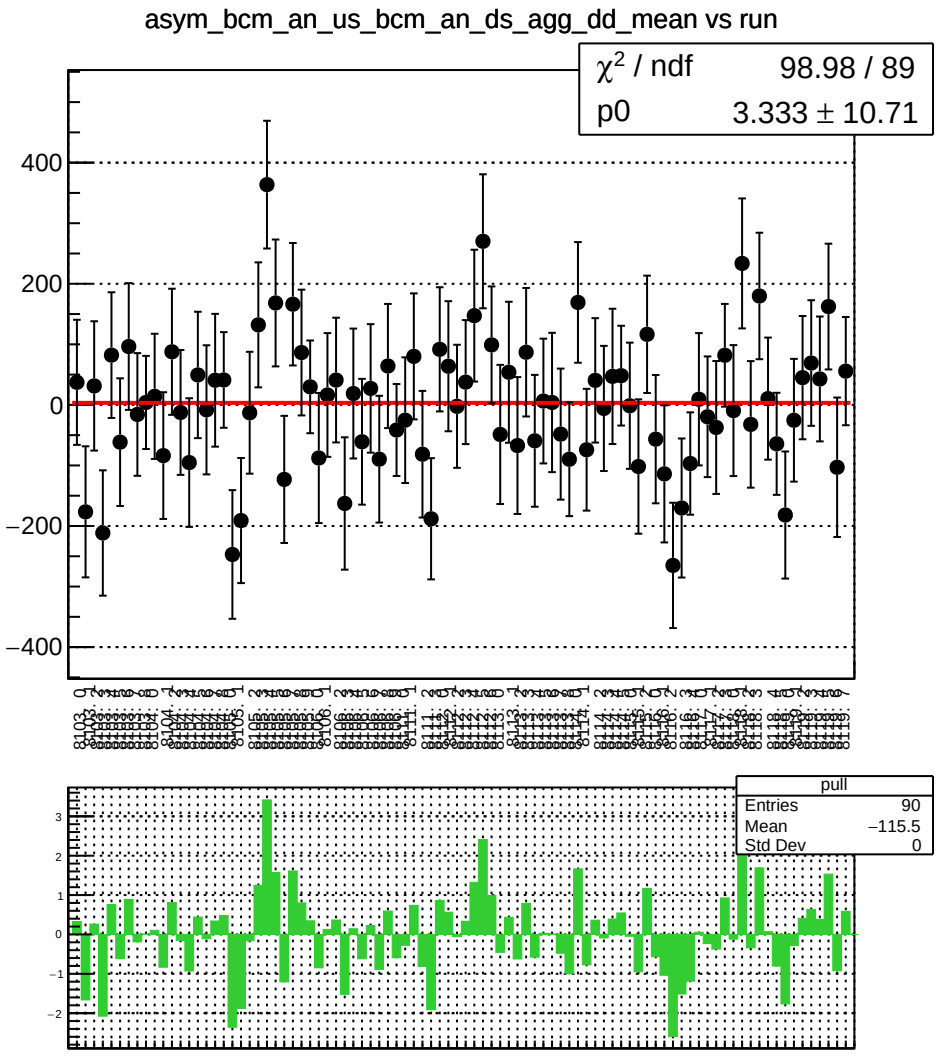

pull1D
Entries 90
Mean 0.01708
Std Dev 1.023

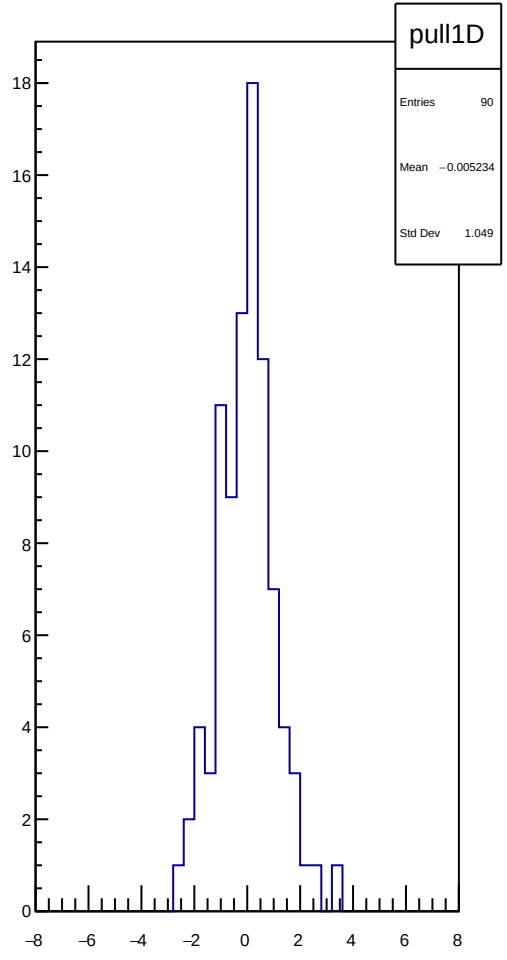

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3324 / 89
p0 15.41 ± 0.01163
19
18
17
16
15
14

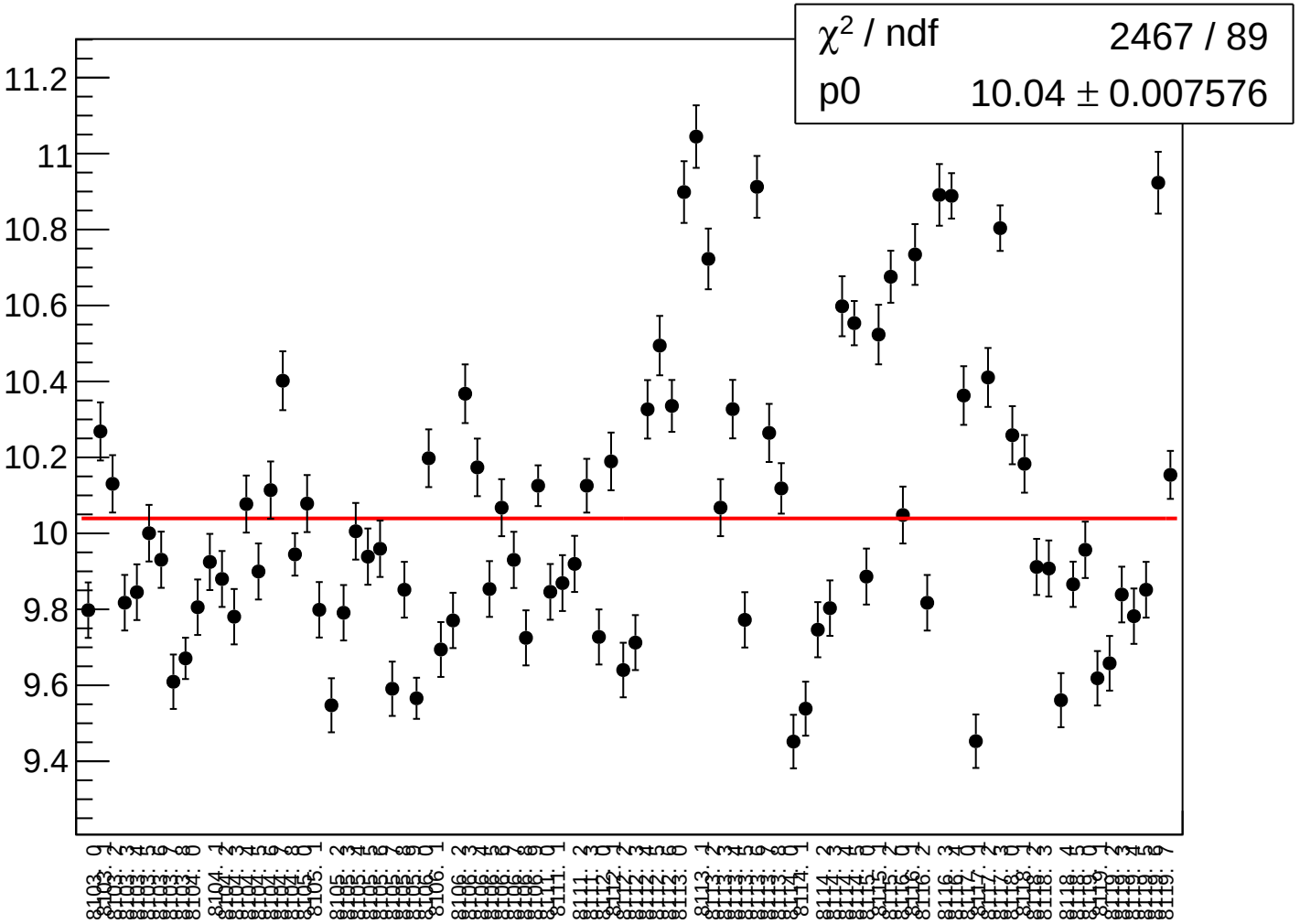

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 91.77 / 89
p0 7.272 ± 22.25
pull
Entries 90
Mean 385.7
Std Dev 0

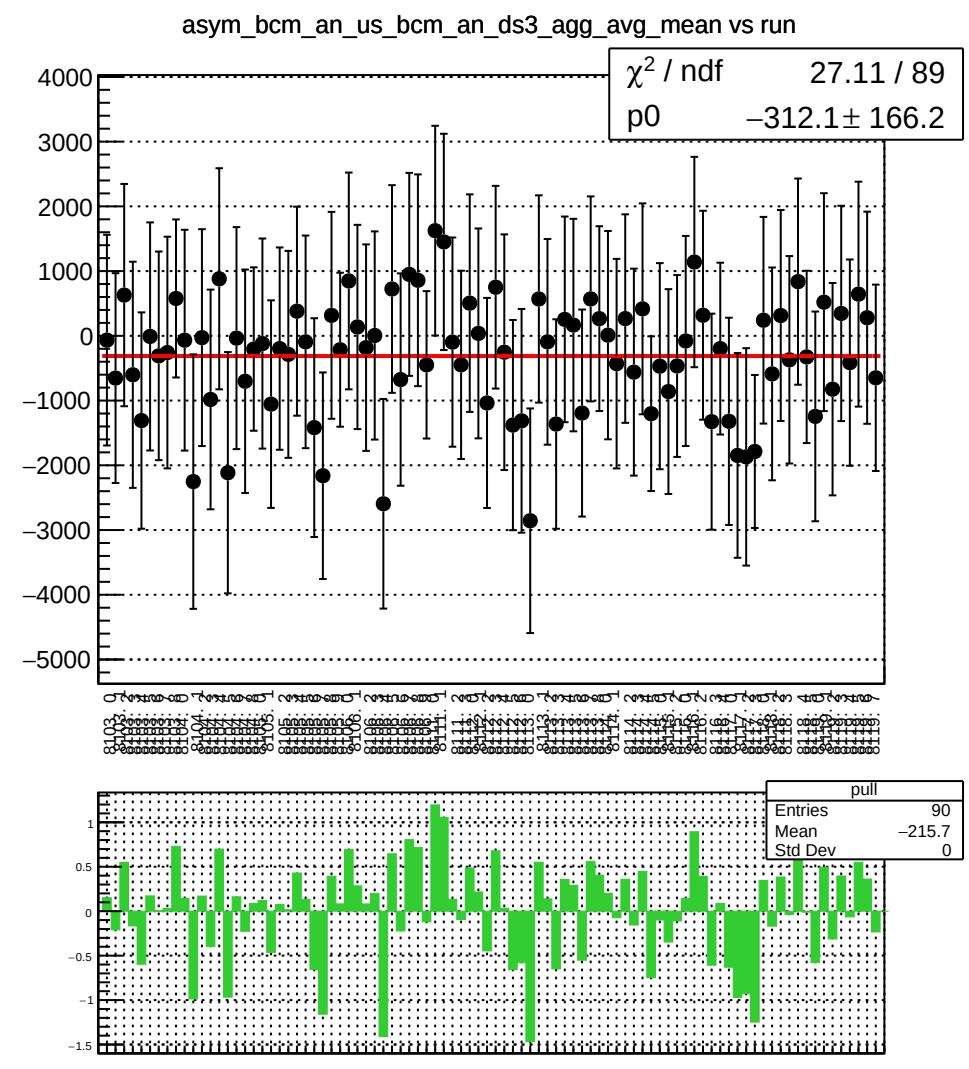

pull1D
Entries 90
Mean 0.01743
Std Dev 1.01

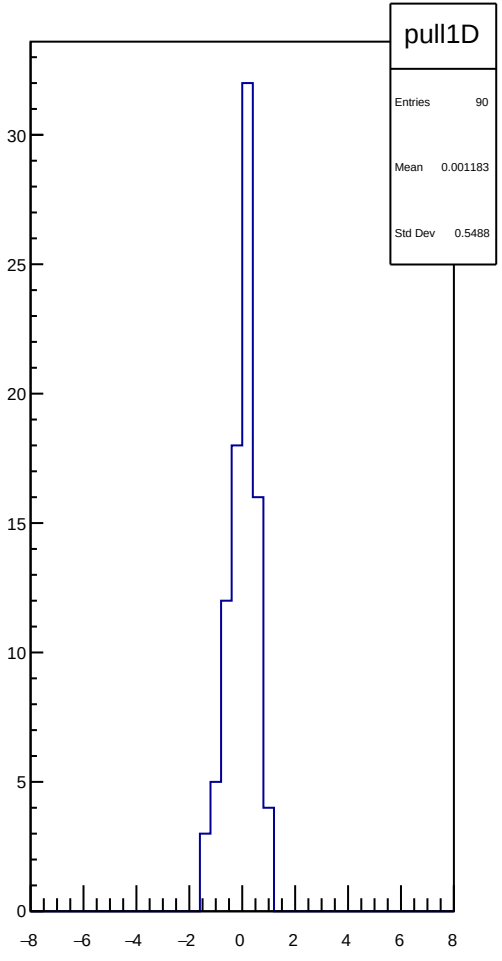

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1189 / 89
p0 20.85 ± 0.01573
23.5
23
22.5
22
21.5
21
20.5
20
19.5

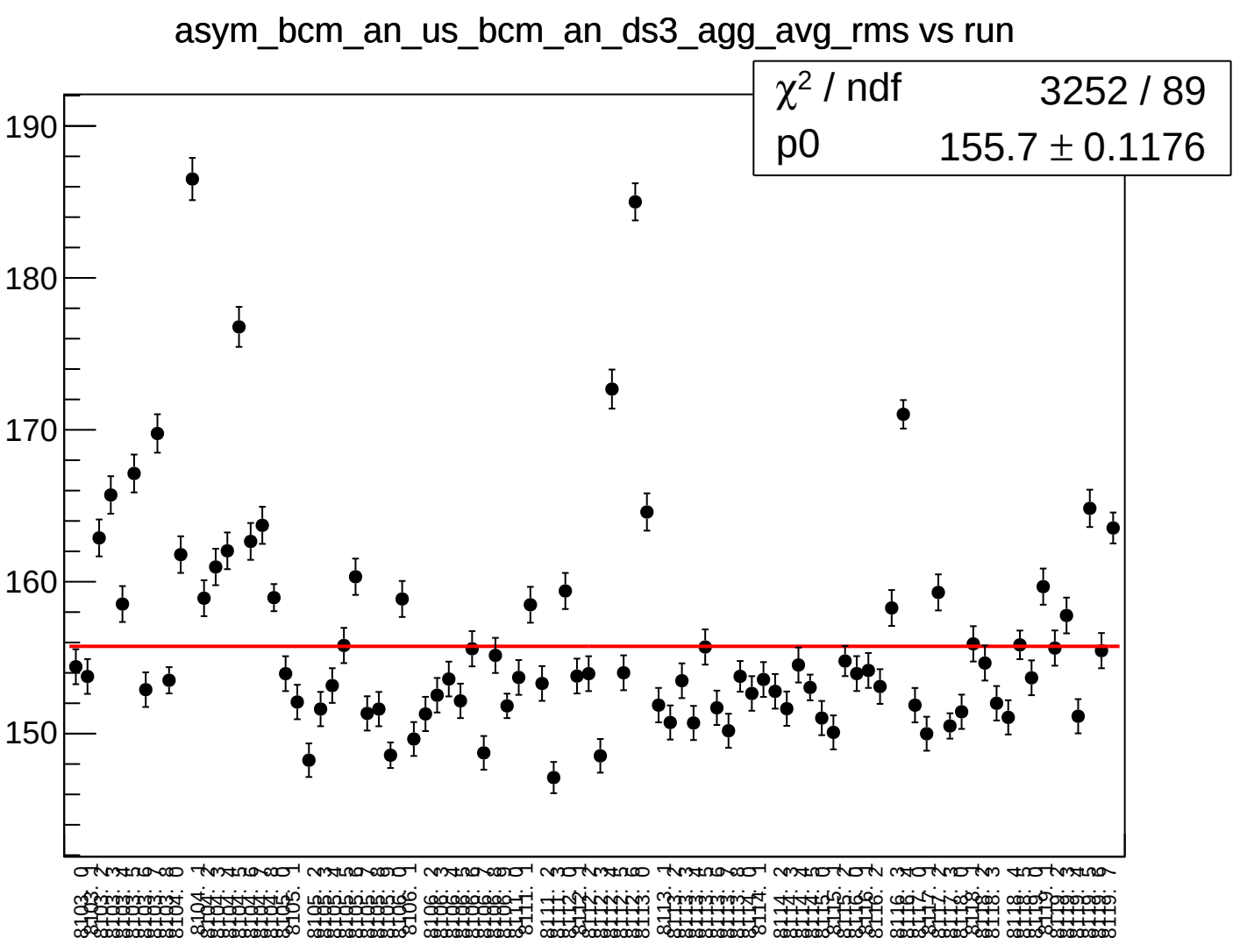

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 98.98 / 89
p0 3.333 ± 10.71
400
200
0
−200
−400
pull
Entries 90
Mean −115.5
Std Dev 0
3
2
1
0
−1
−2

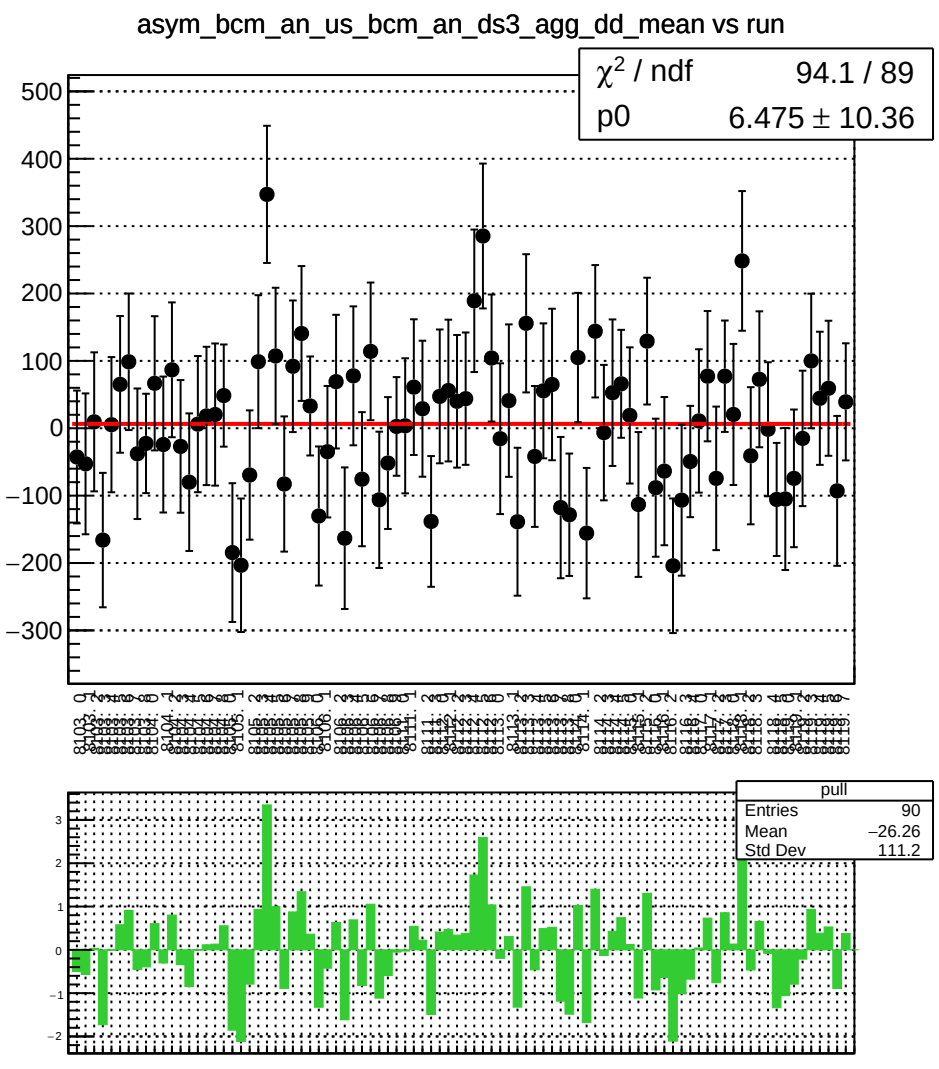

pull1D
Entries 90
Mean −0.005234
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

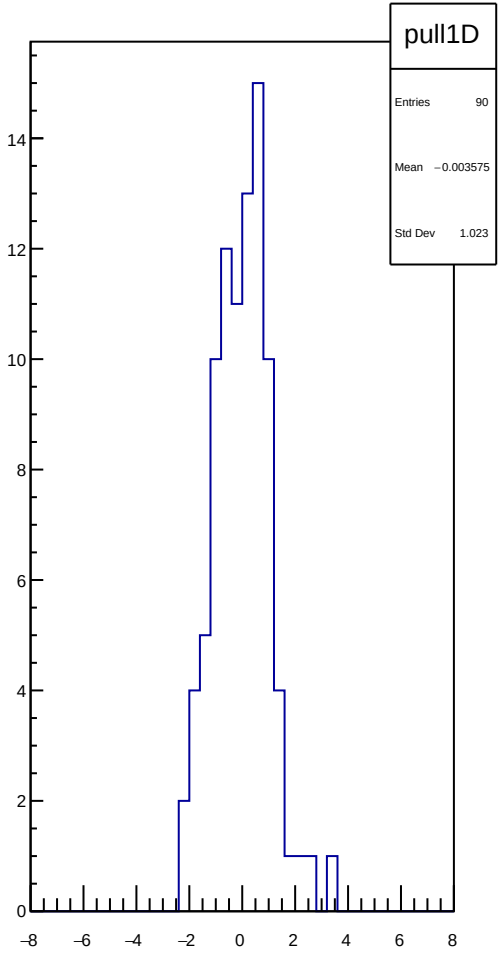

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2467 / 89
p0 10.04 ± 0.007576
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4

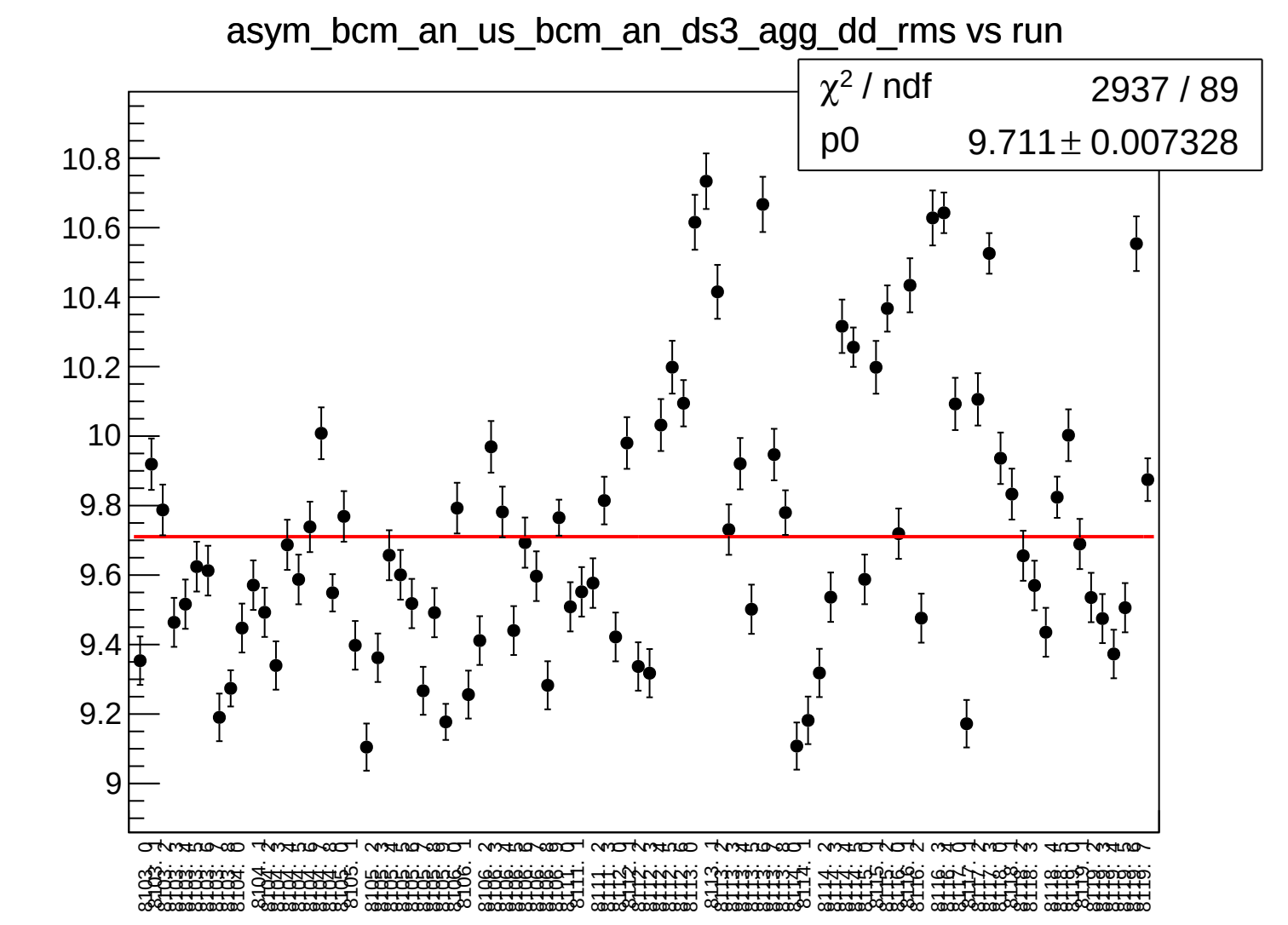

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 27.11 / 89
p0 −312.1 ± 166.2
pull
Entries 90
Mean −215.7
Std Dev 0

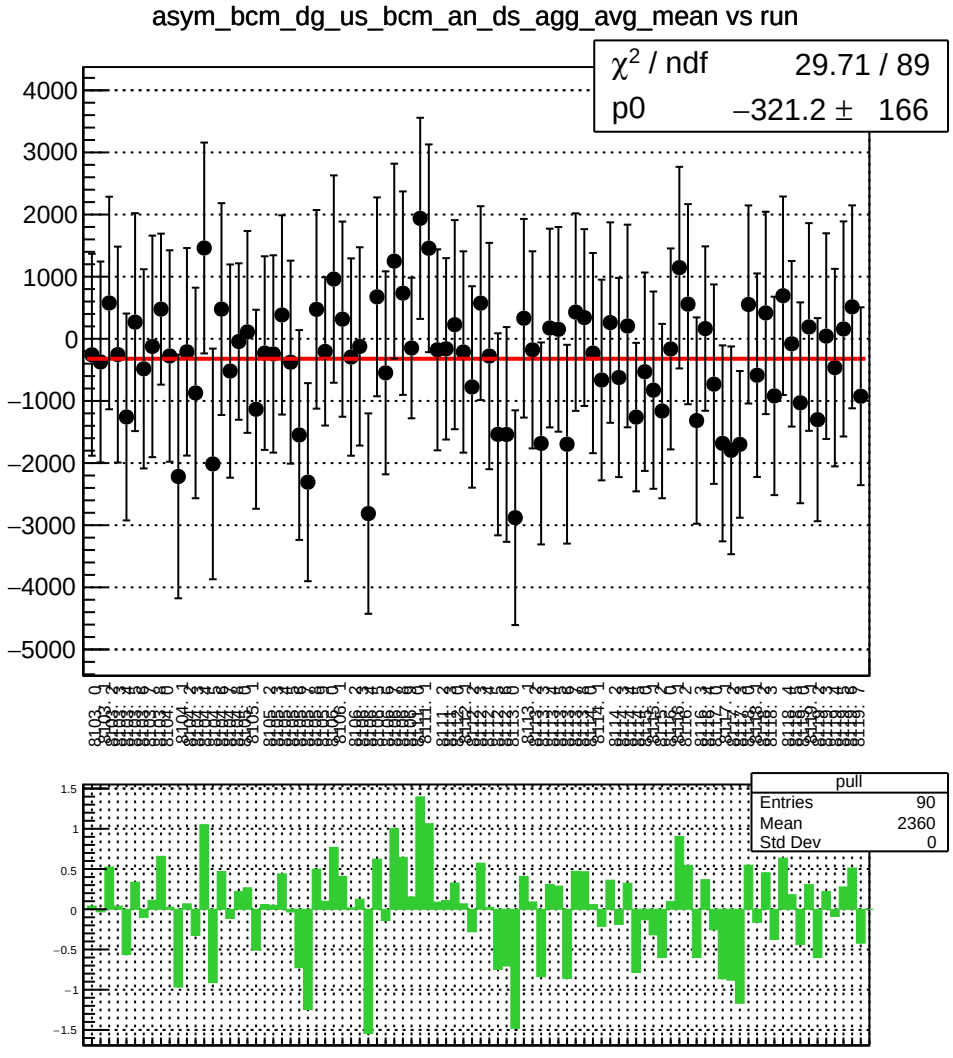

pull1D
Entries 90
Mean 0.001183
Std Dev 0.5488

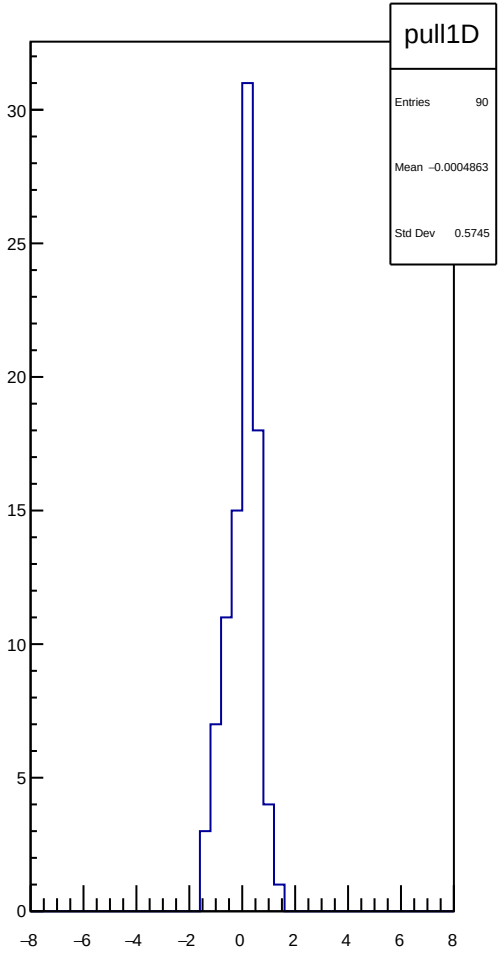

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3252 / 89
p0 155.7 ± 0.1176
190
180
170
160
150

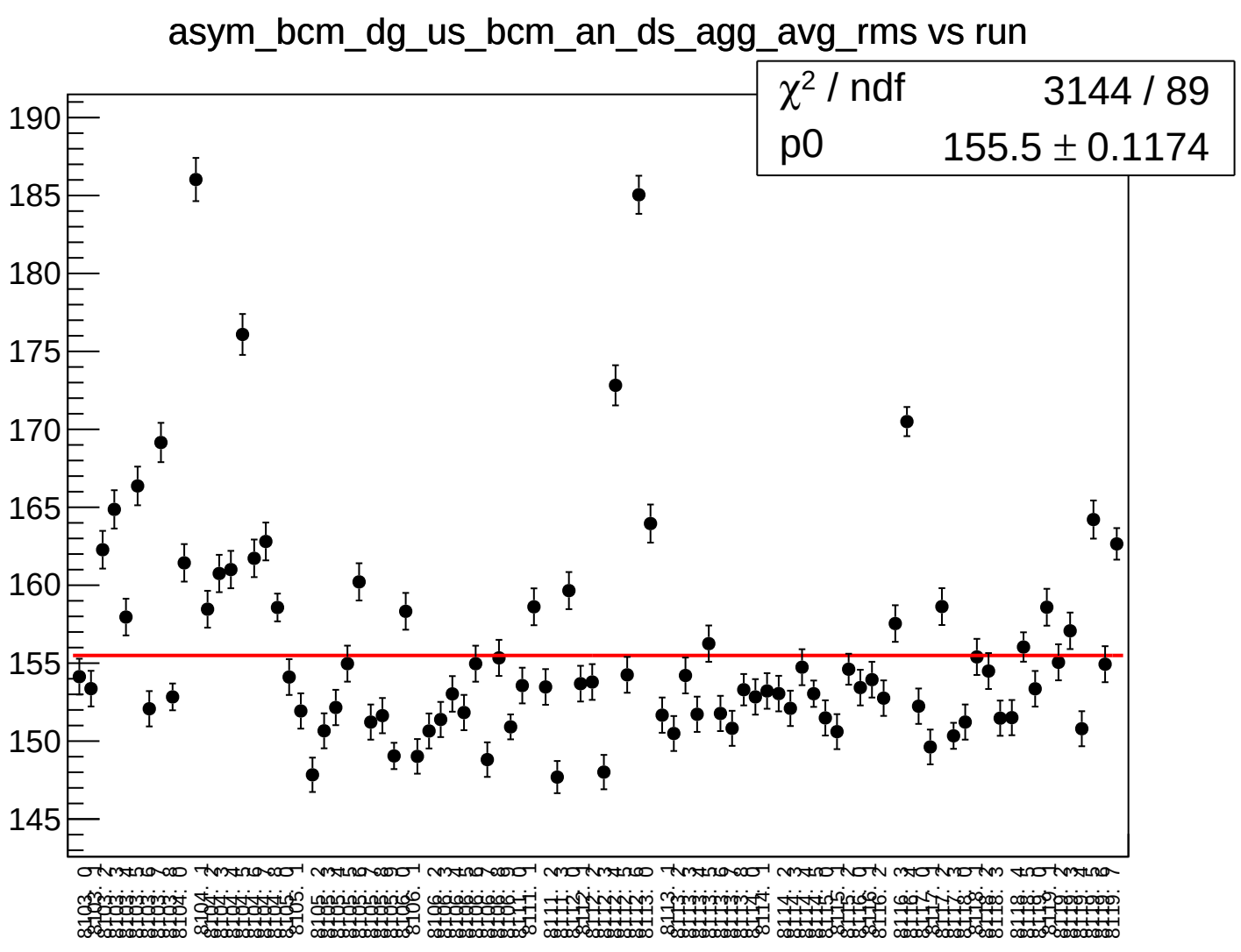

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 94.1 / 89
p0 6.475 ± 10.36
pull
Entries 90
Mean −26.26
Std Dev 111.2

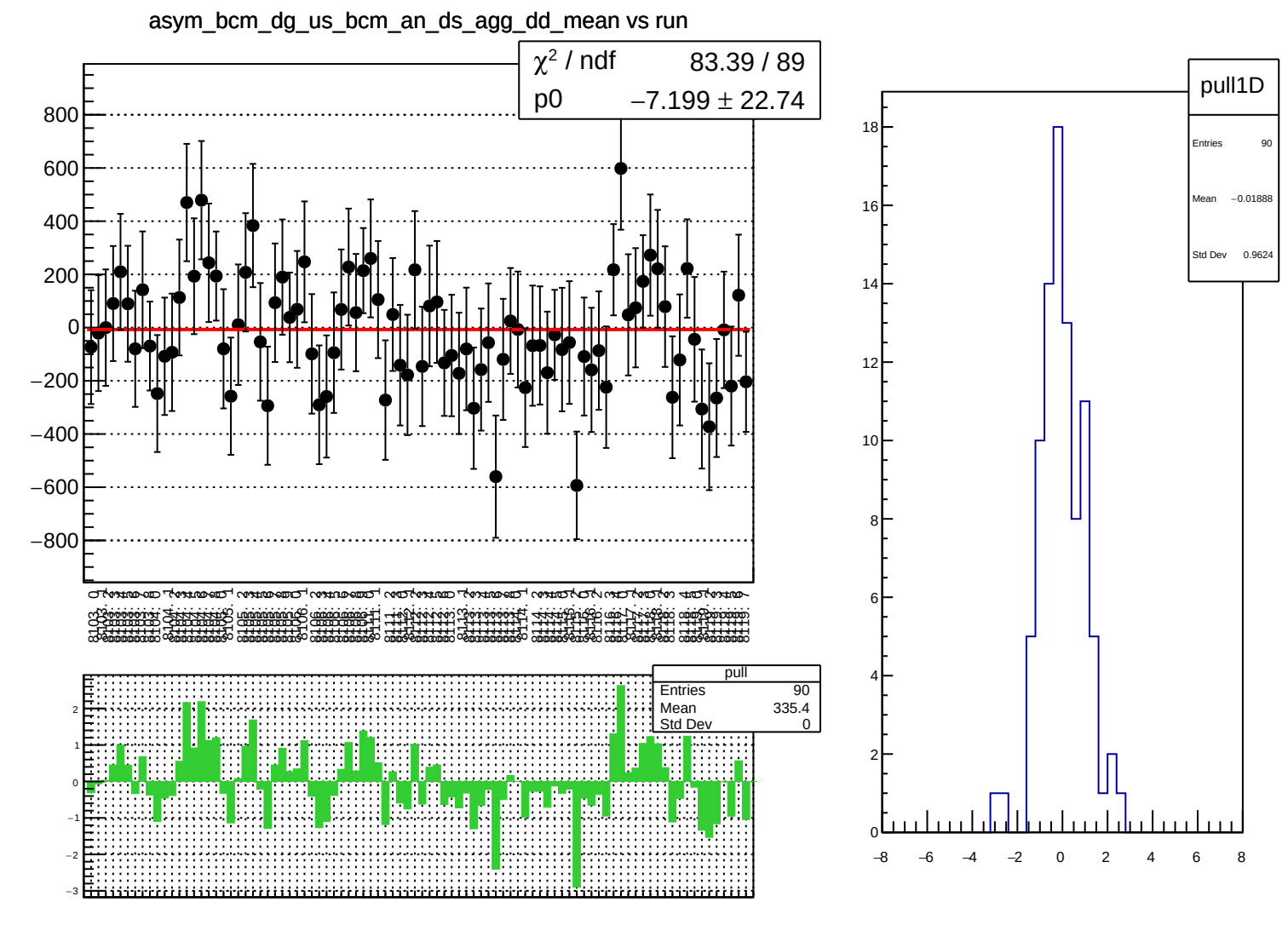

pull1D
Entries 90
Mean −0.003575
Std Dev 1.023

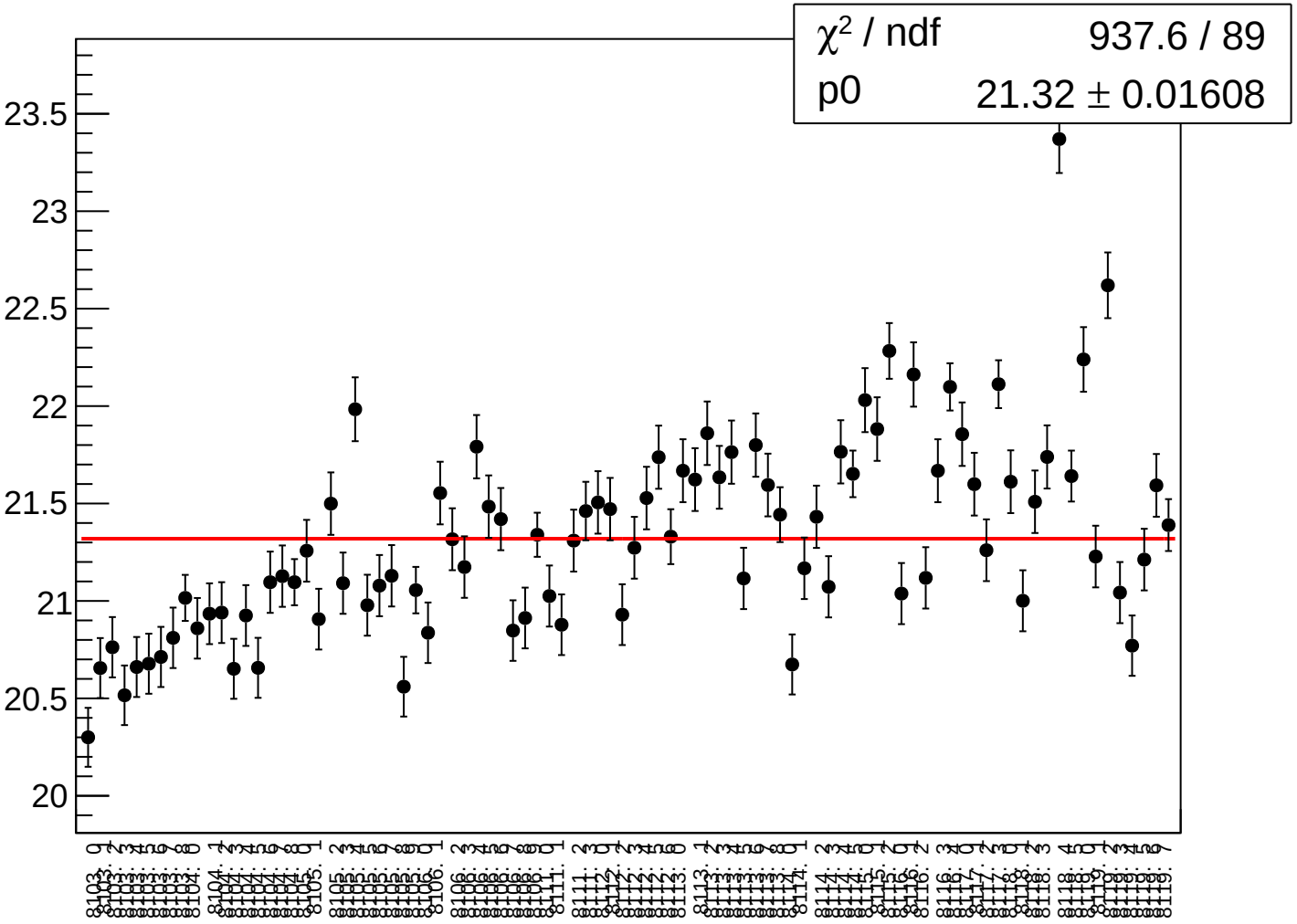

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2937 / 89
p0 9.711 ± 0.007328
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9

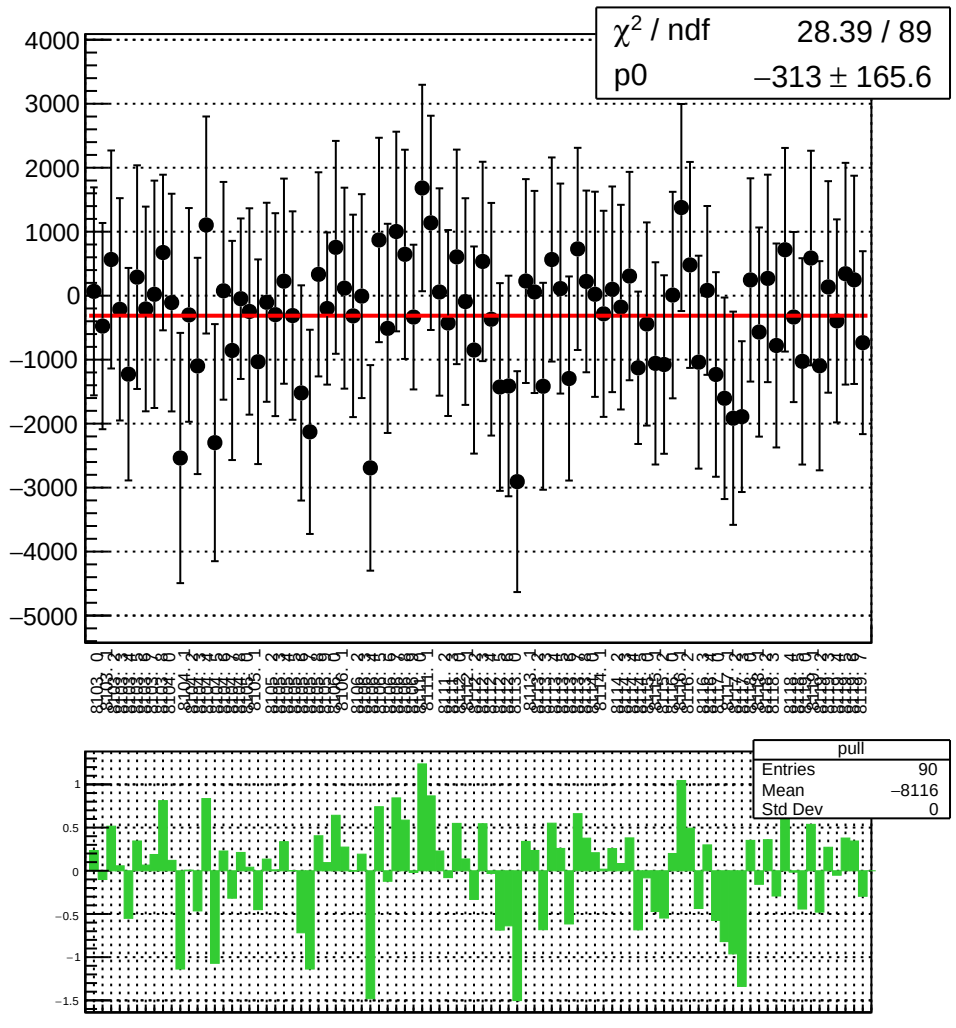

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 29.71 / 89
p0 −321.2 ± 166
pull
Entries 90
Mean 2360
Std Dev 0

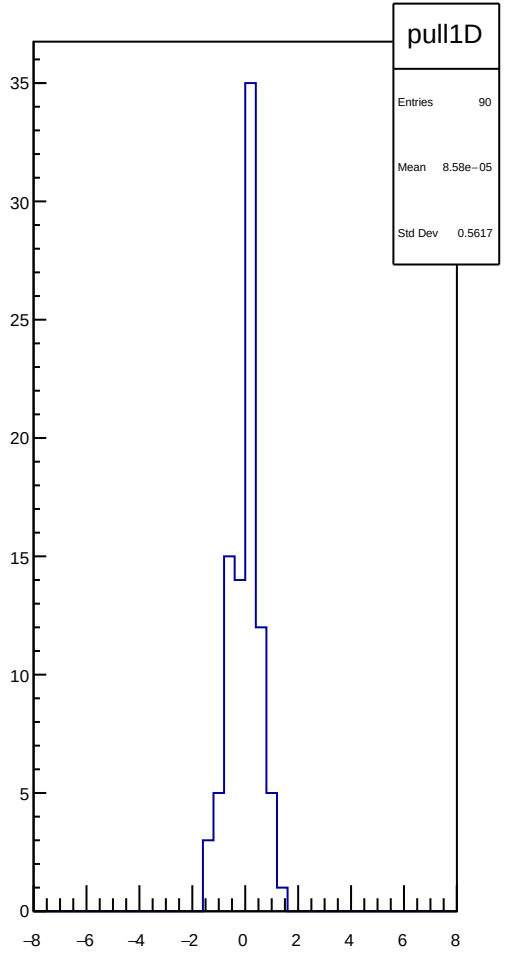

pull1D
Entries 90
Mean −0.0004863
Std Dev 0.5745

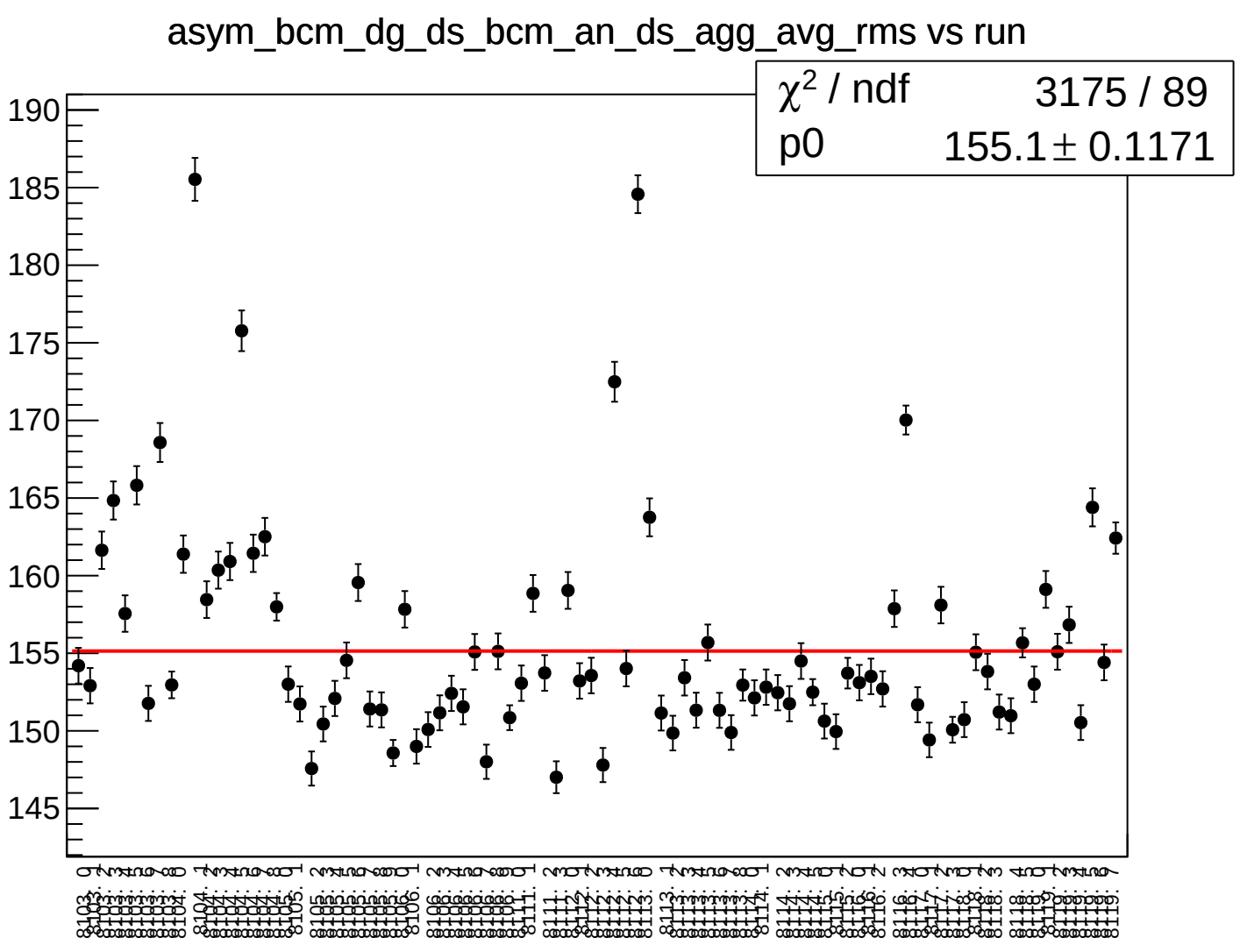

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3144 / 89
p0 155.5 ± 0.1174
190
185
180
175
170
165
160
155
150
145

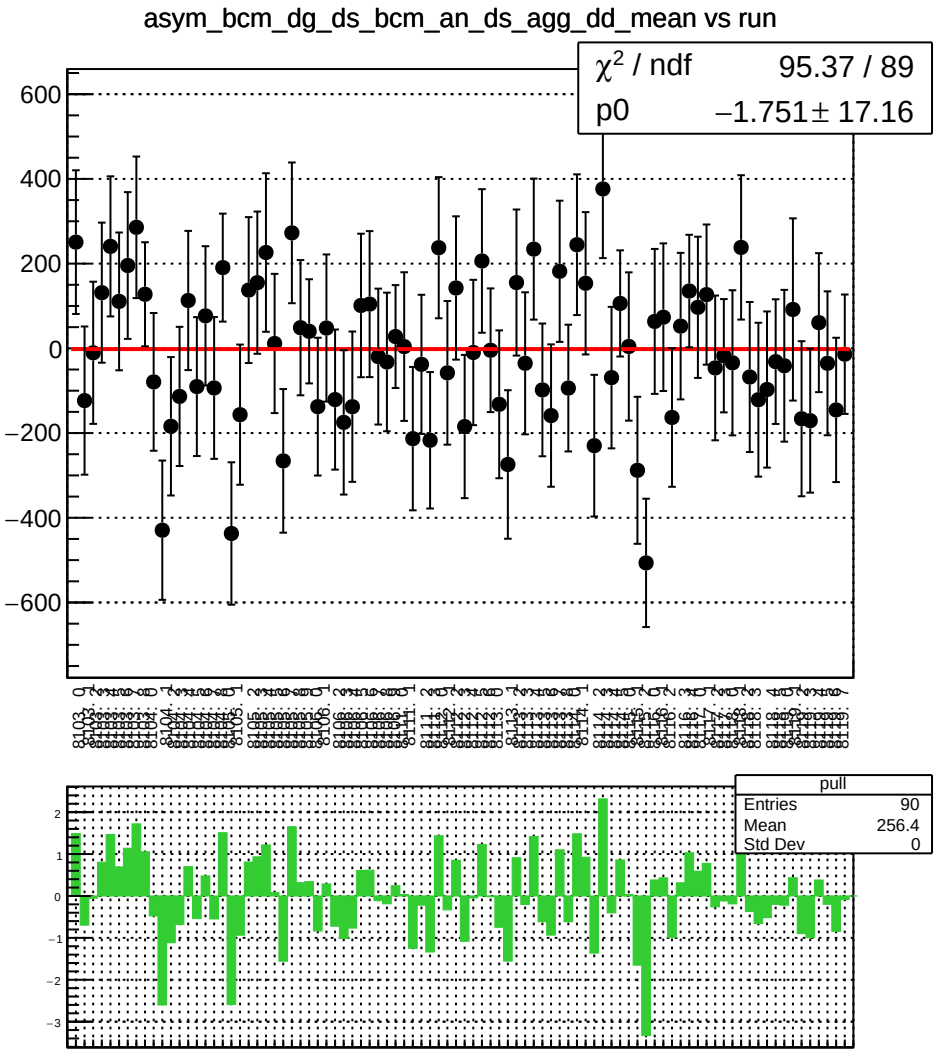

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 83.39 / 89
p0 −7.199 ± 22.74
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 90
Mean 335.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean −0.01888
Std Dev 0.9624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

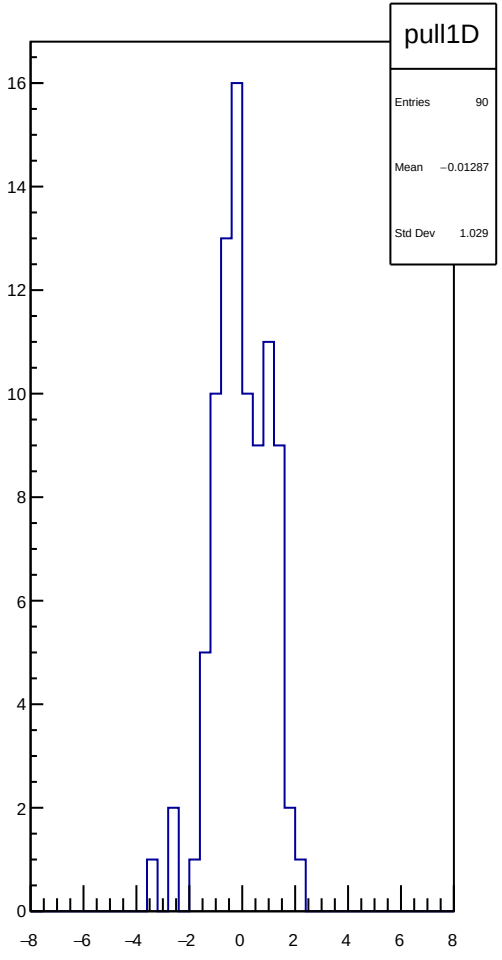

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 937.6 / 89
p0 21.32 ± 0.01608
23.5
23
22.5
22
21.5
21
20.5
20

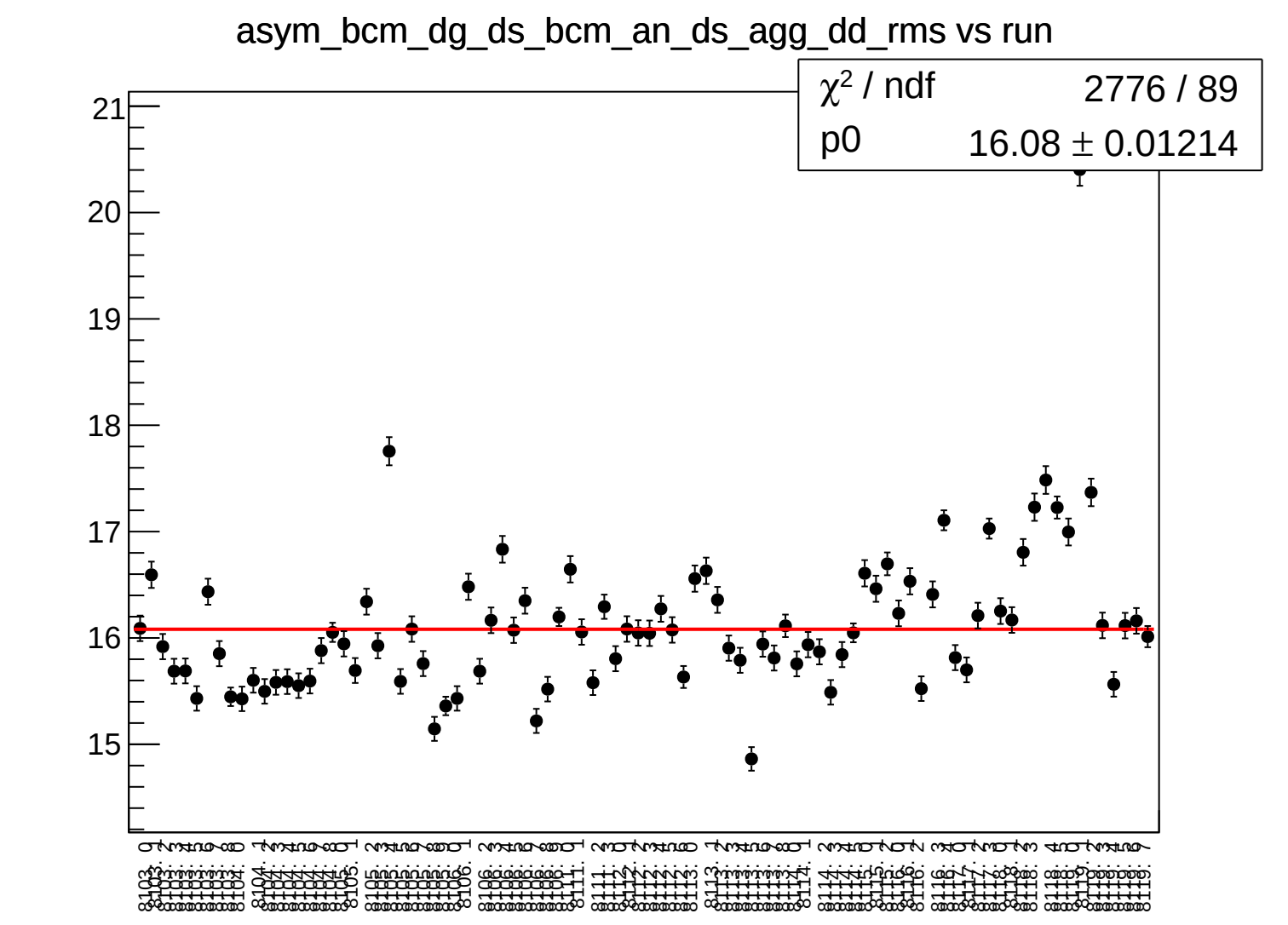

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 28.39 / 89
p0 −313 ± 165.6
pull
Entries 90
Mean −8116
Std Dev 0

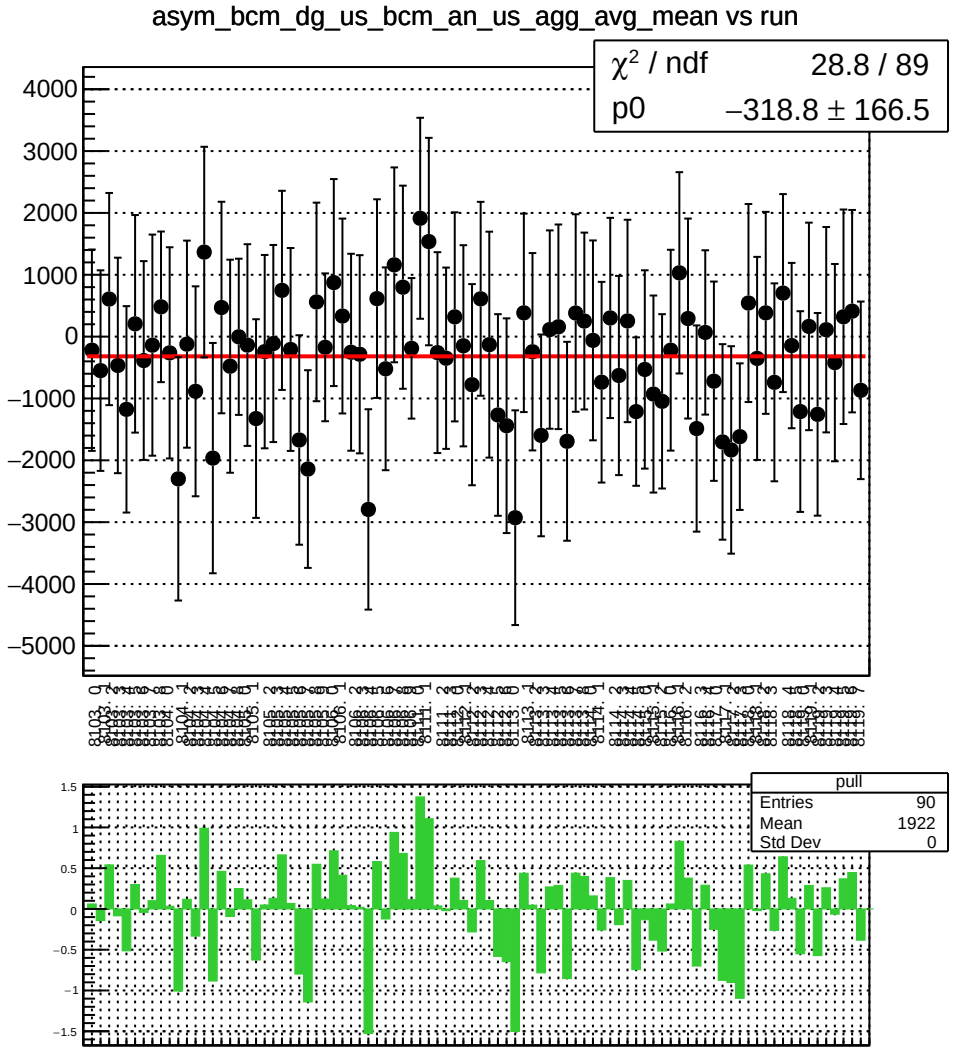

pull1D
Entries 90
Mean 8.58e−05
Std Dev 0.5617

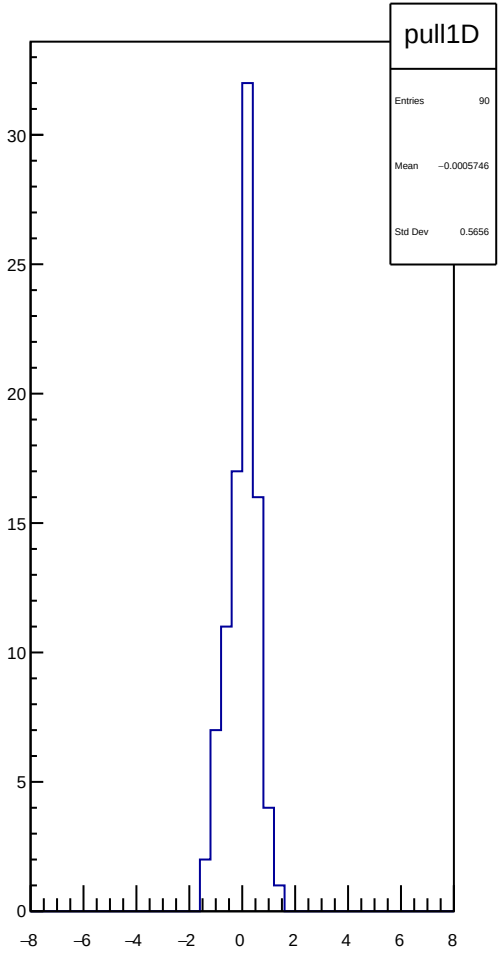

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3175 / 89
p0 155.1 ± 0.1171
190
185
180
175
170
165
160
155
150
145

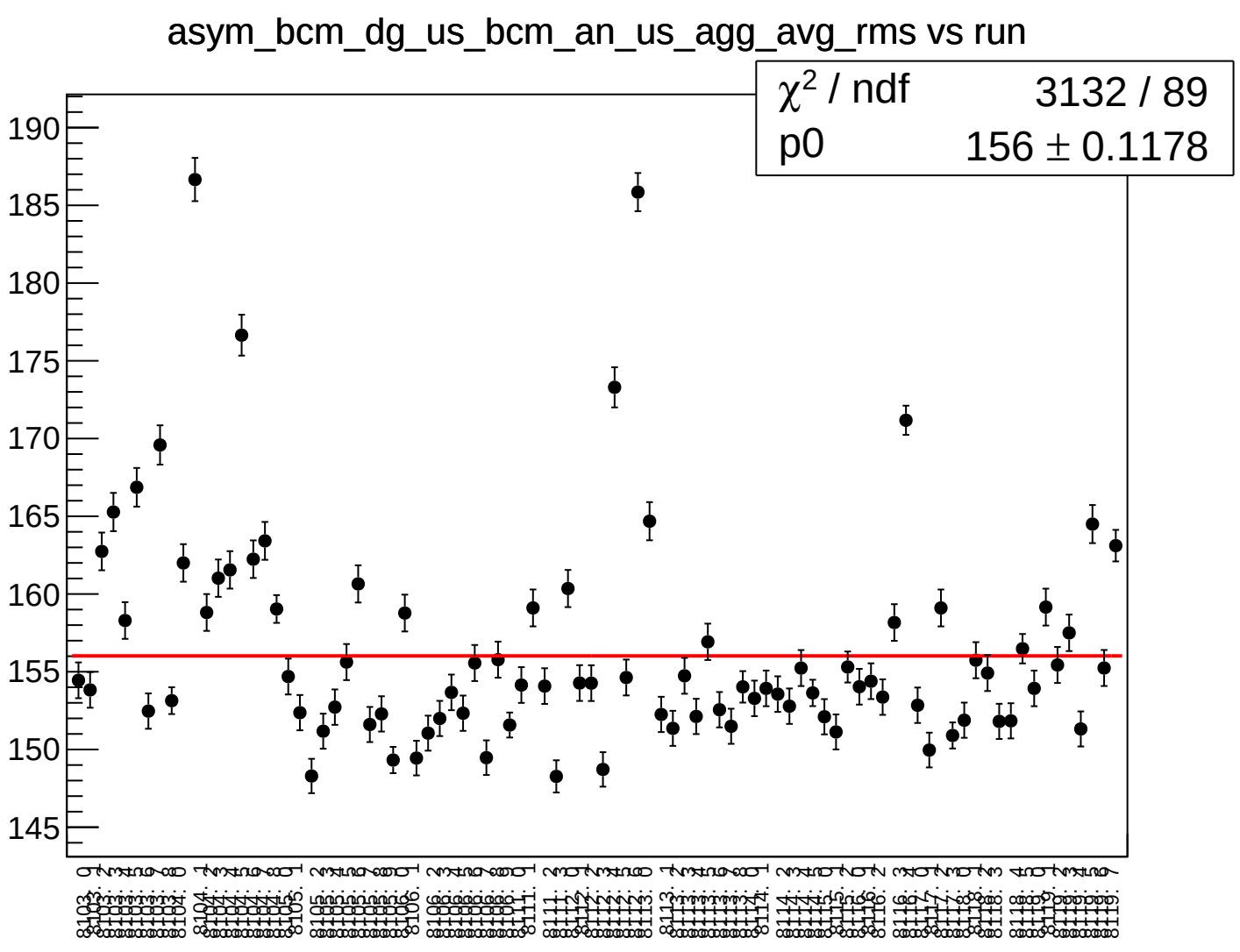

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.37 / 89
p0 −1.751 ± 17.16
pull
Entries 90
Mean 256.4
Std Dev 0

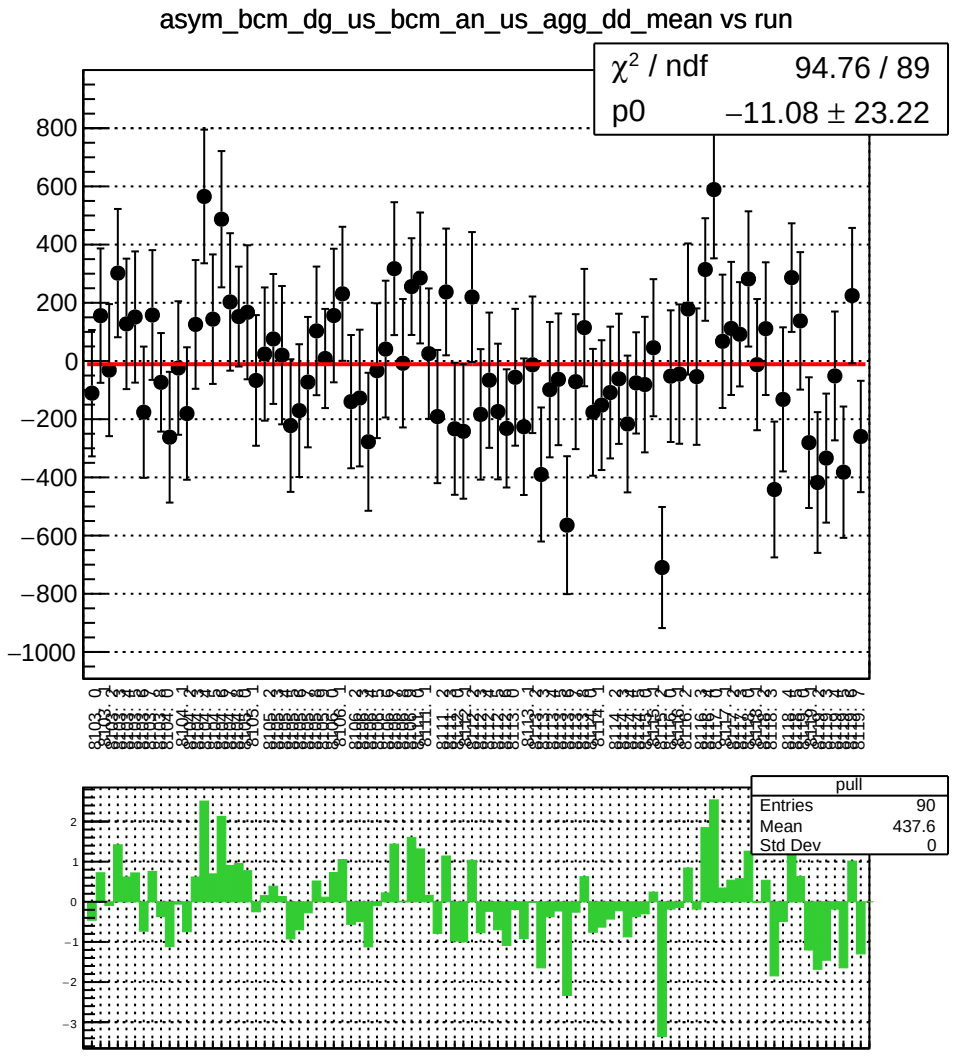

pull1D
Entries 90
Mean −0.01287
Std Dev 1.029

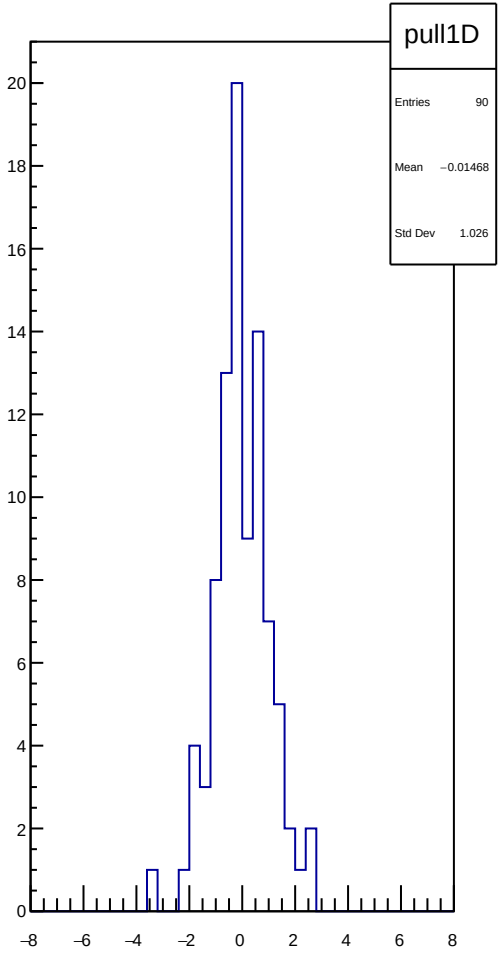

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2776 / 89
p0 16.08 ± 0.01214
21
20
19
18
17
16
15

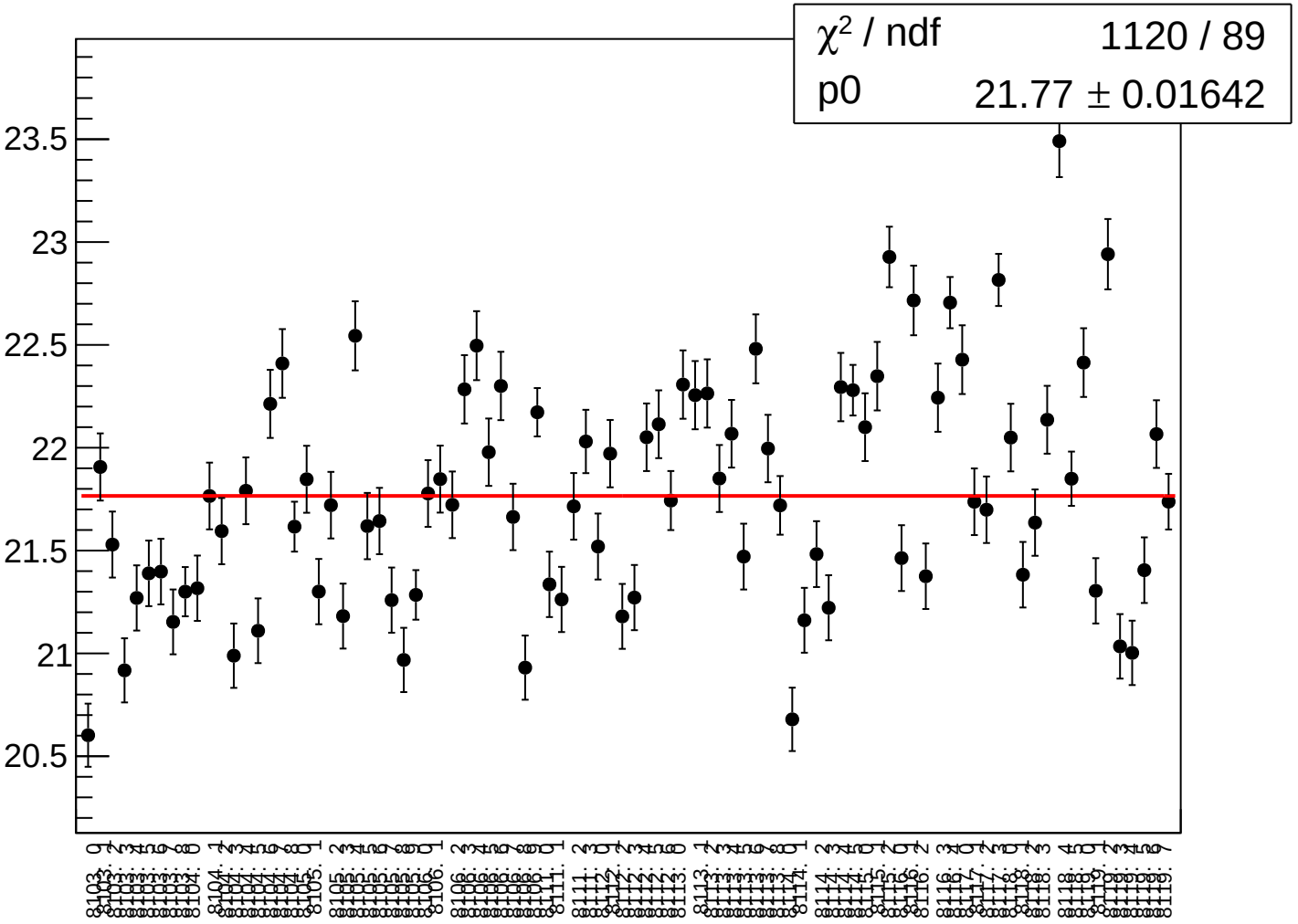

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 28.8 / 89
p0 −318.8 ± 166.5
pull
Entries 90
Mean 1922
Std Dev 0

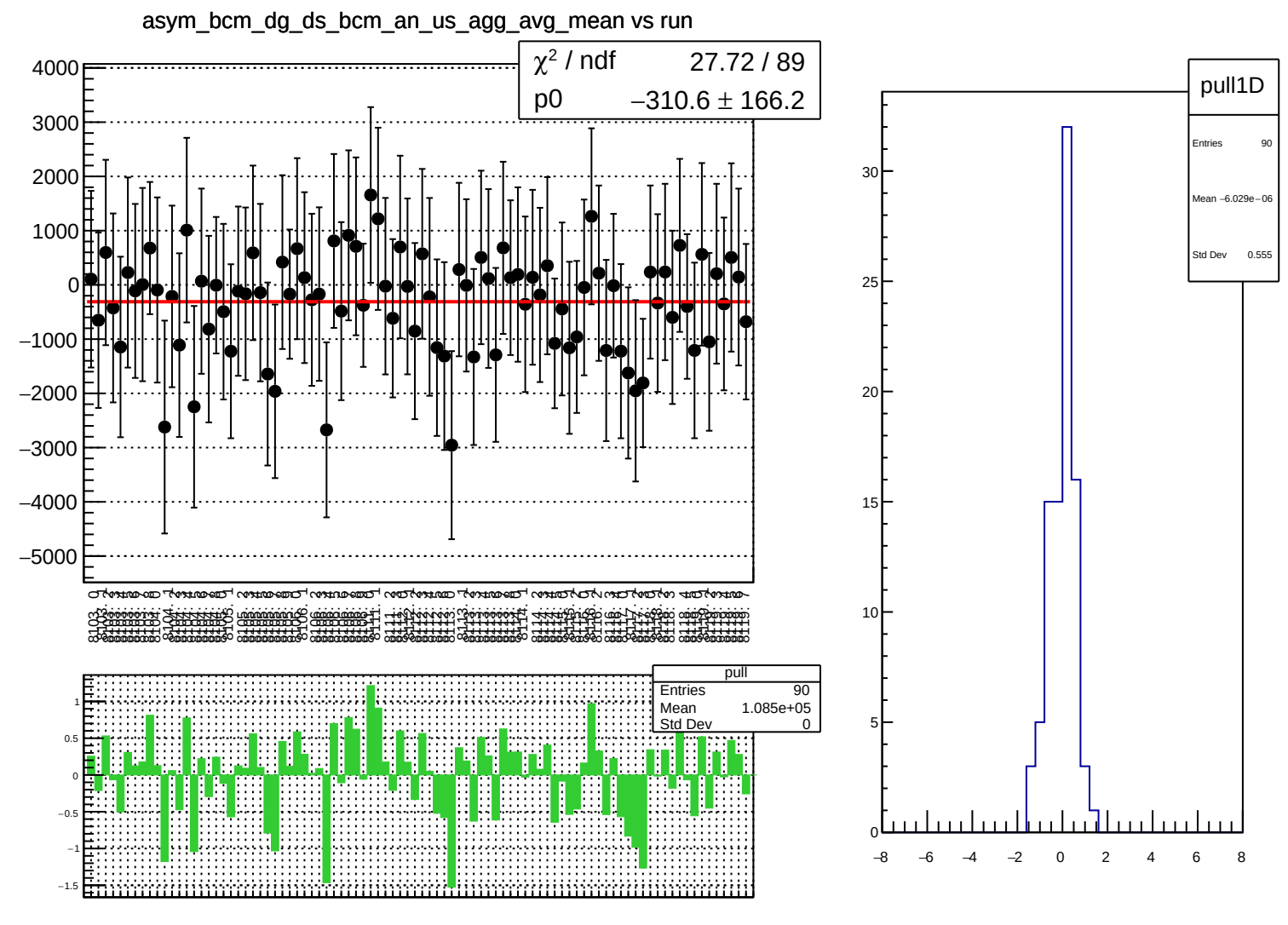

pull1D
Entries 90
Mean −0.0005746
Std Dev 0.5656

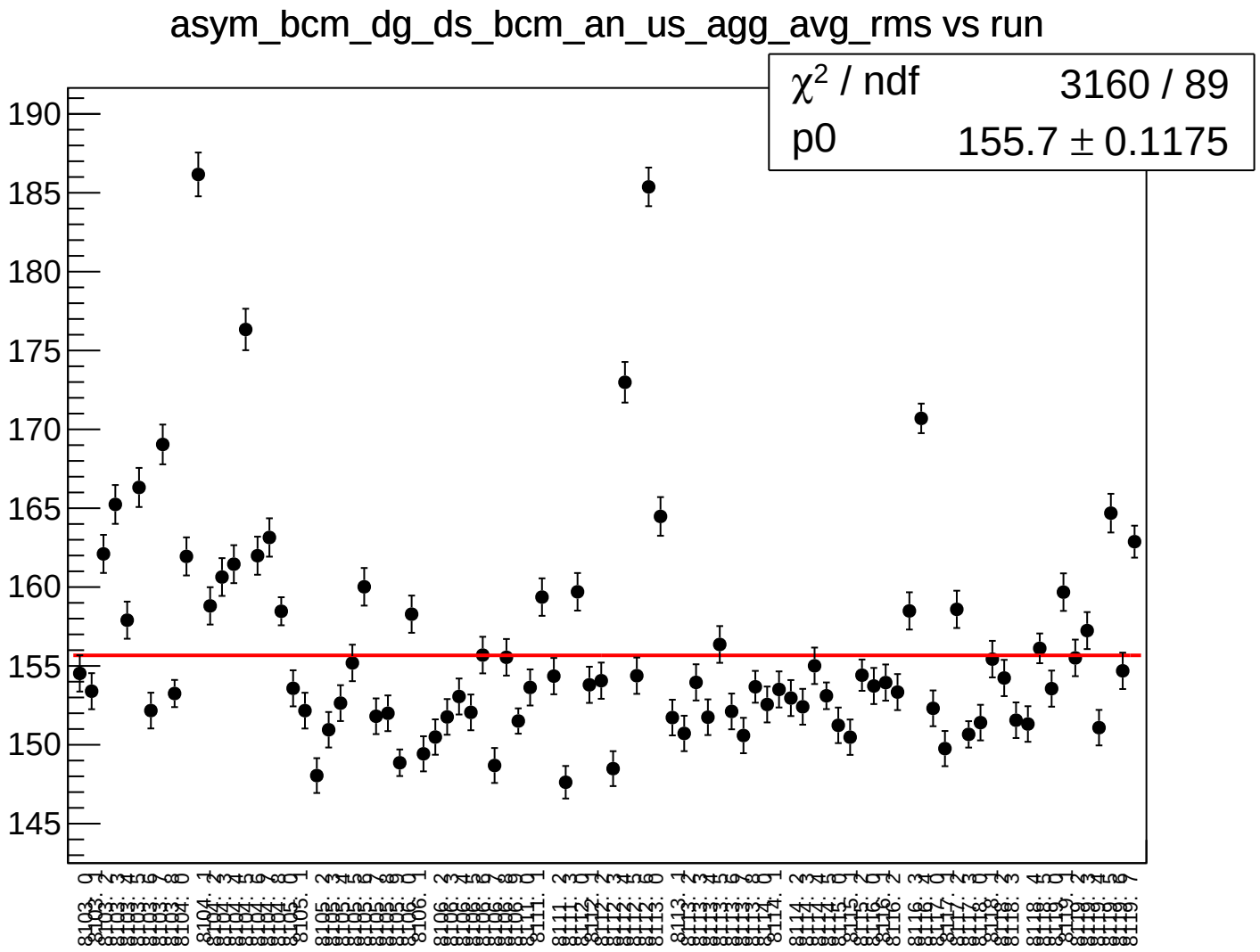

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3132 / 89
p0 156 ± 0.1178
190
185
180
175
170
165
160
155
150
145

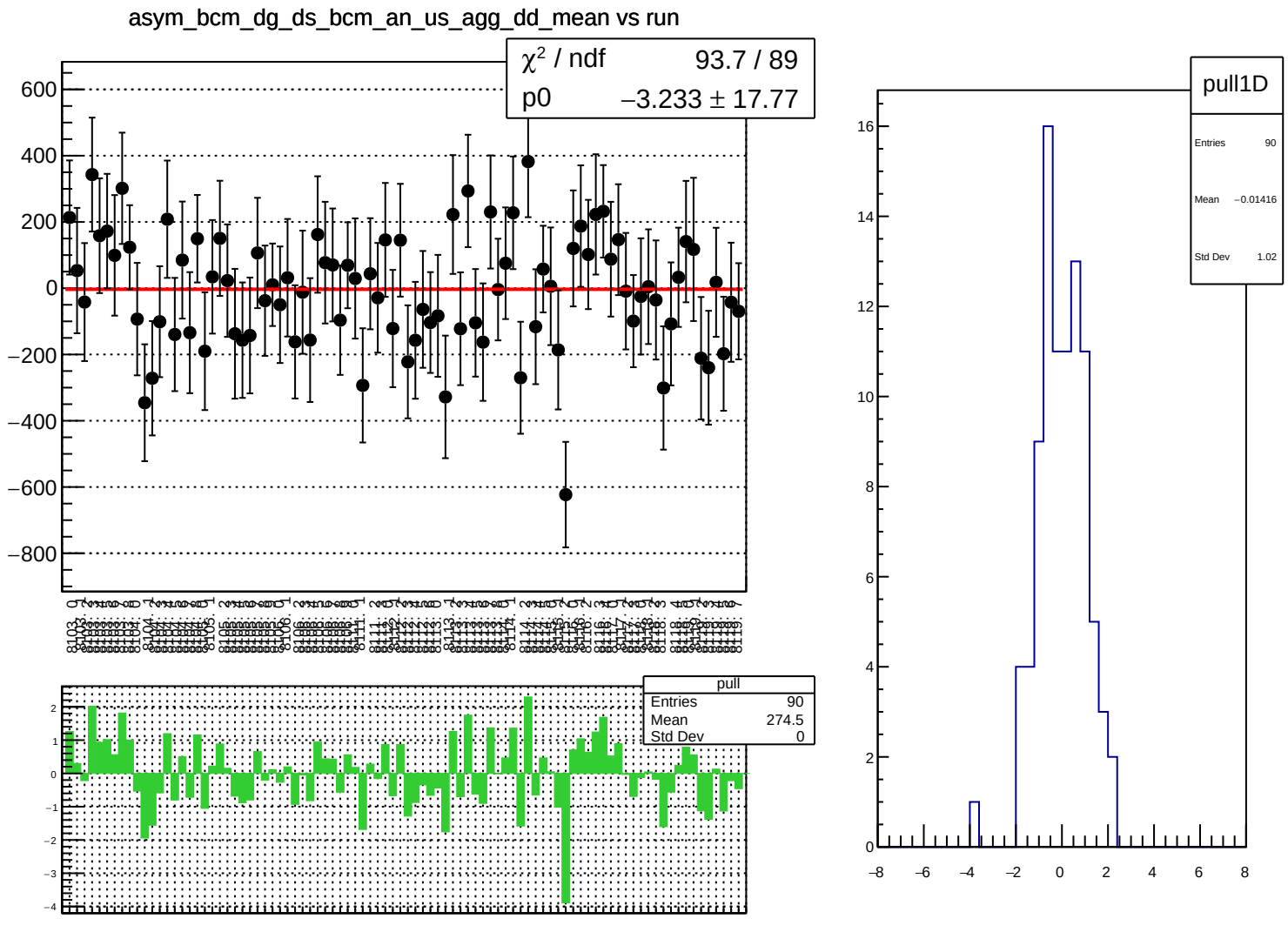

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 94.76 / 89
p0 −11.08 ± 23.22
pull
Entries 90
Mean 437.6
Std Dev 0

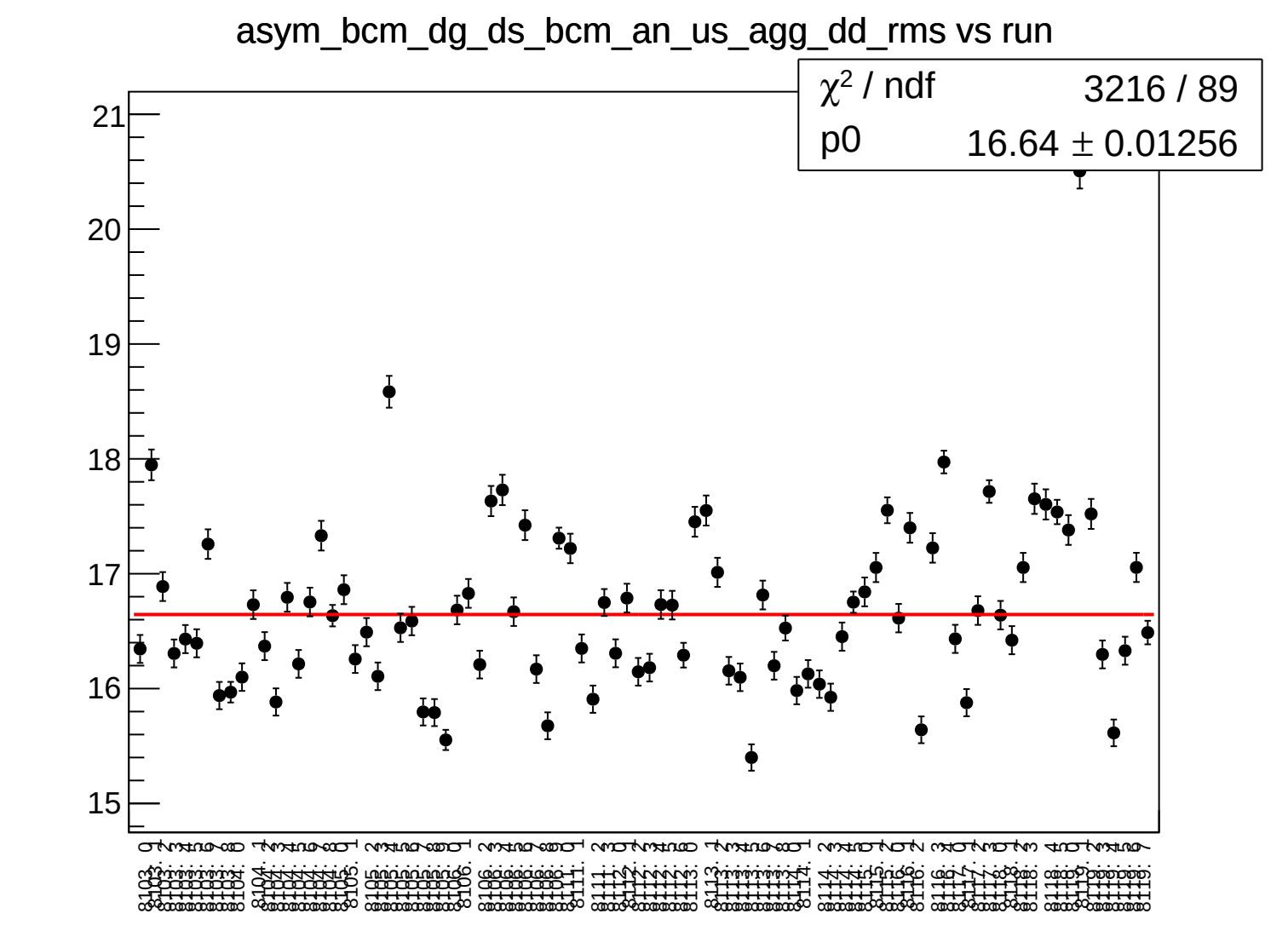

pull1D
Entries 90
Mean −0.01468
Std Dev 1.026

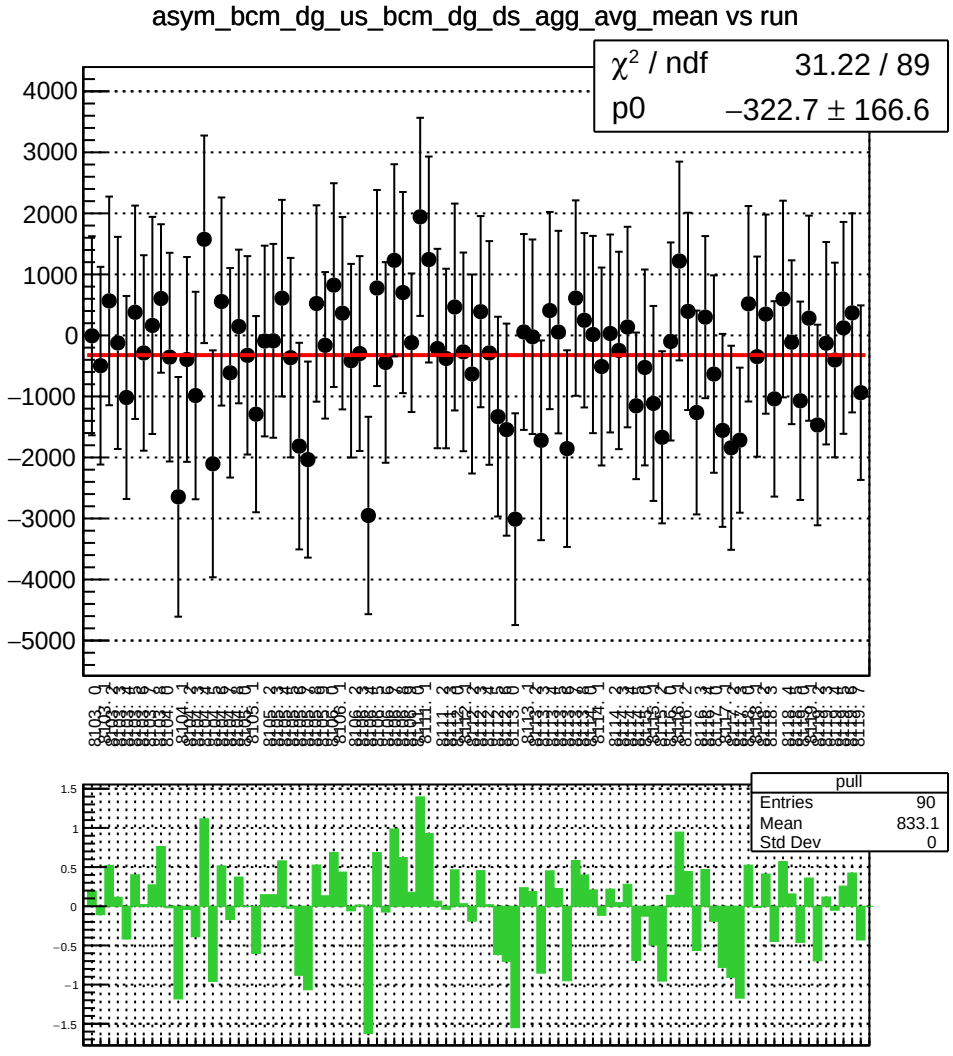

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1120 / 89
p0 21.77 ± 0.01642
23.5
23
22.5
22
21.5
21
20.5

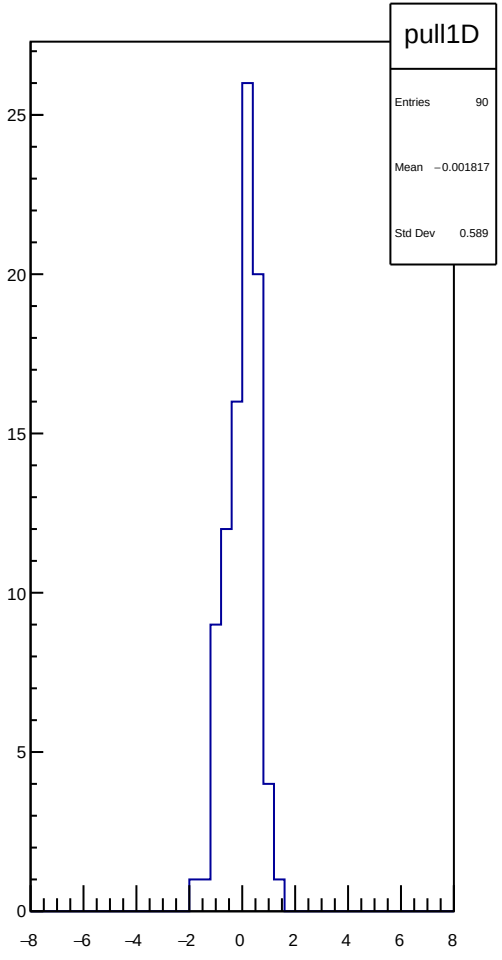

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 27.72 / 89
p0 −310.6 ± 166.2
pull
Entries 90
Mean 1.085e+05
Std Dev 0
pull1D
Entries 90
Mean −6.029e−06
Std Dev 0.555

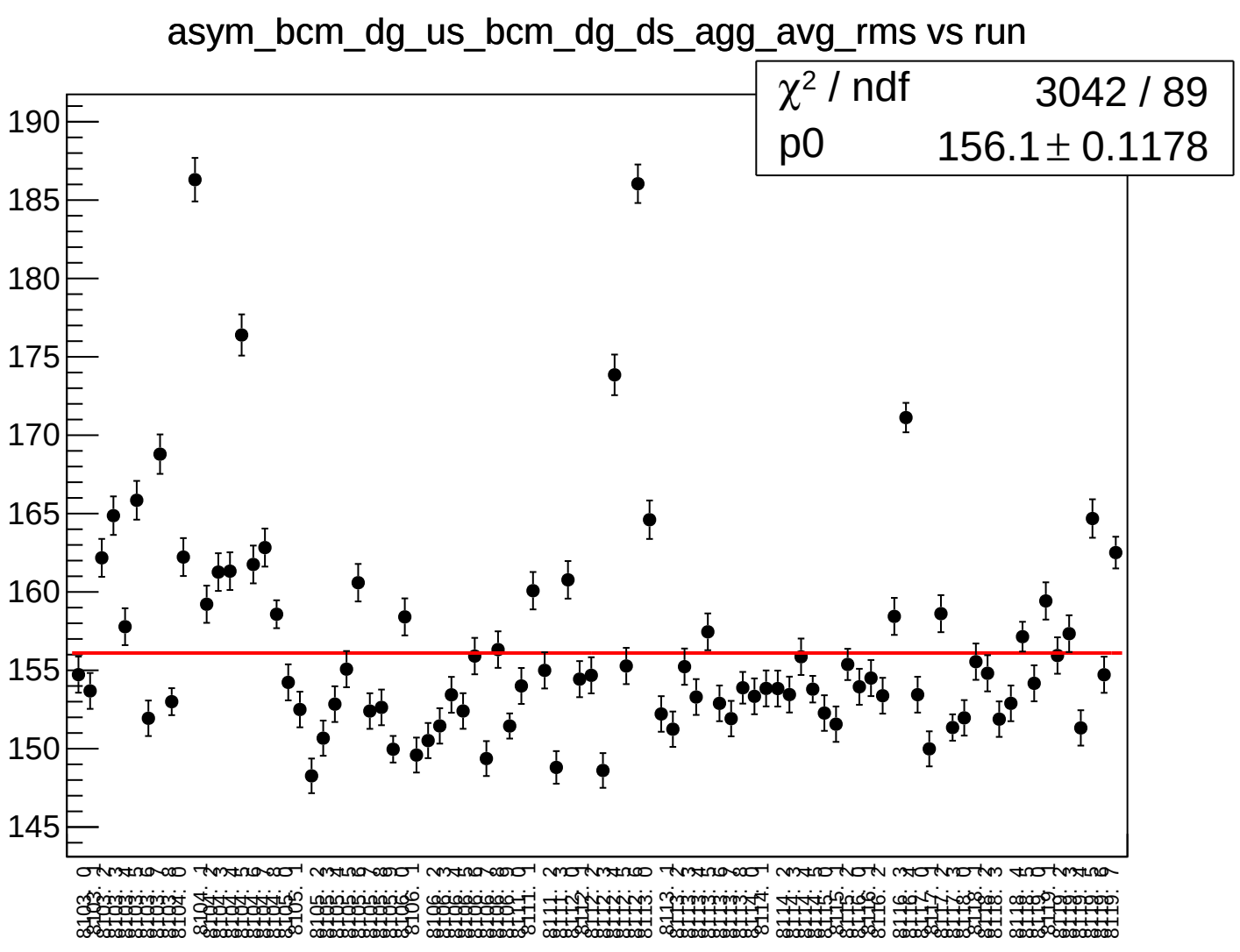

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3160 / 89
p0 155.7 ± 0.1175
190
185
180
175
170
165
160
155
150
145

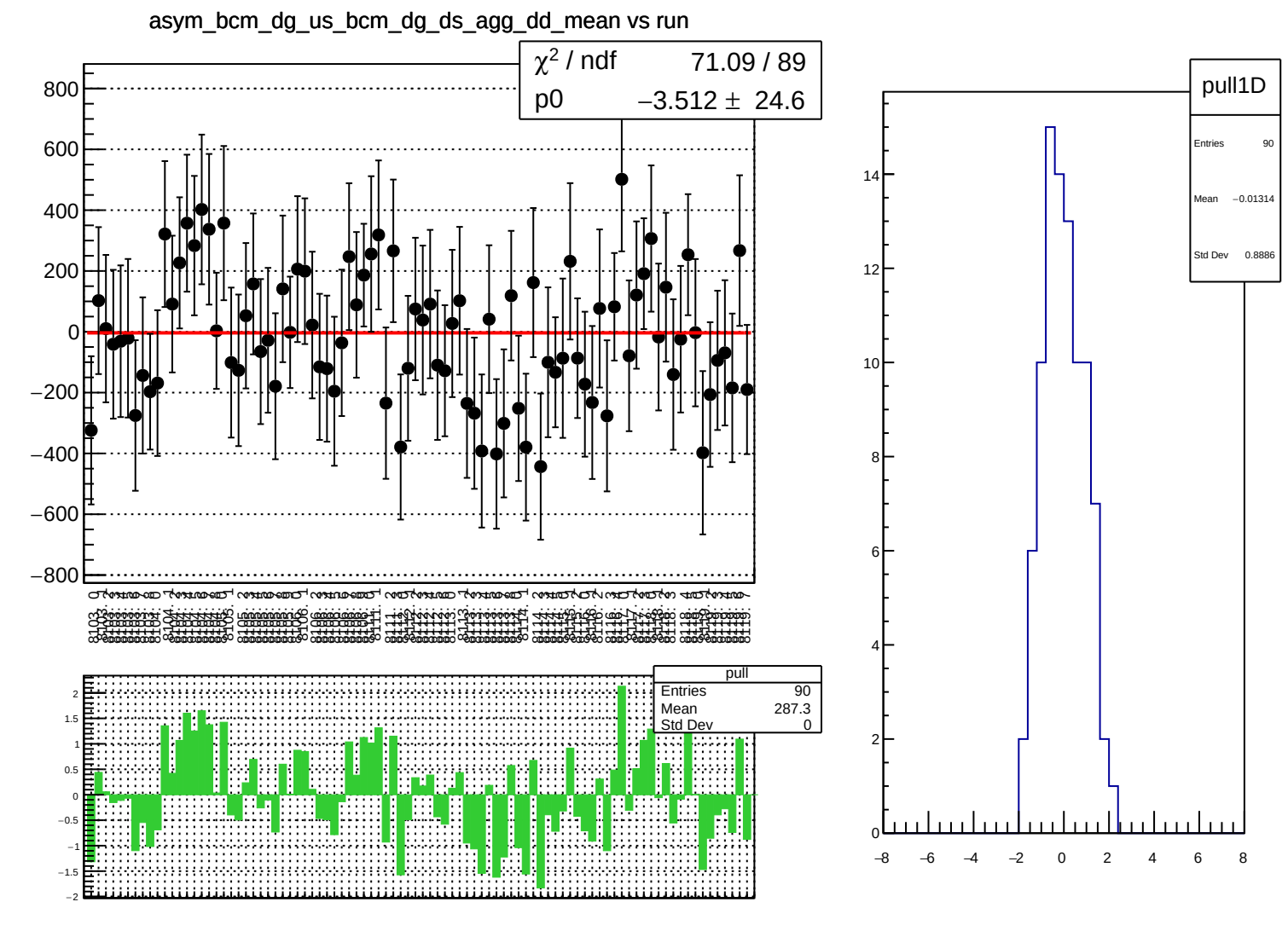

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 93.7 / 89
p0 −3.233 ± 17.77
pull
Entries 90
Mean 274.5
Std Dev 0
pull1D
Entries 90
Mean −0.01416
Std Dev 1.02

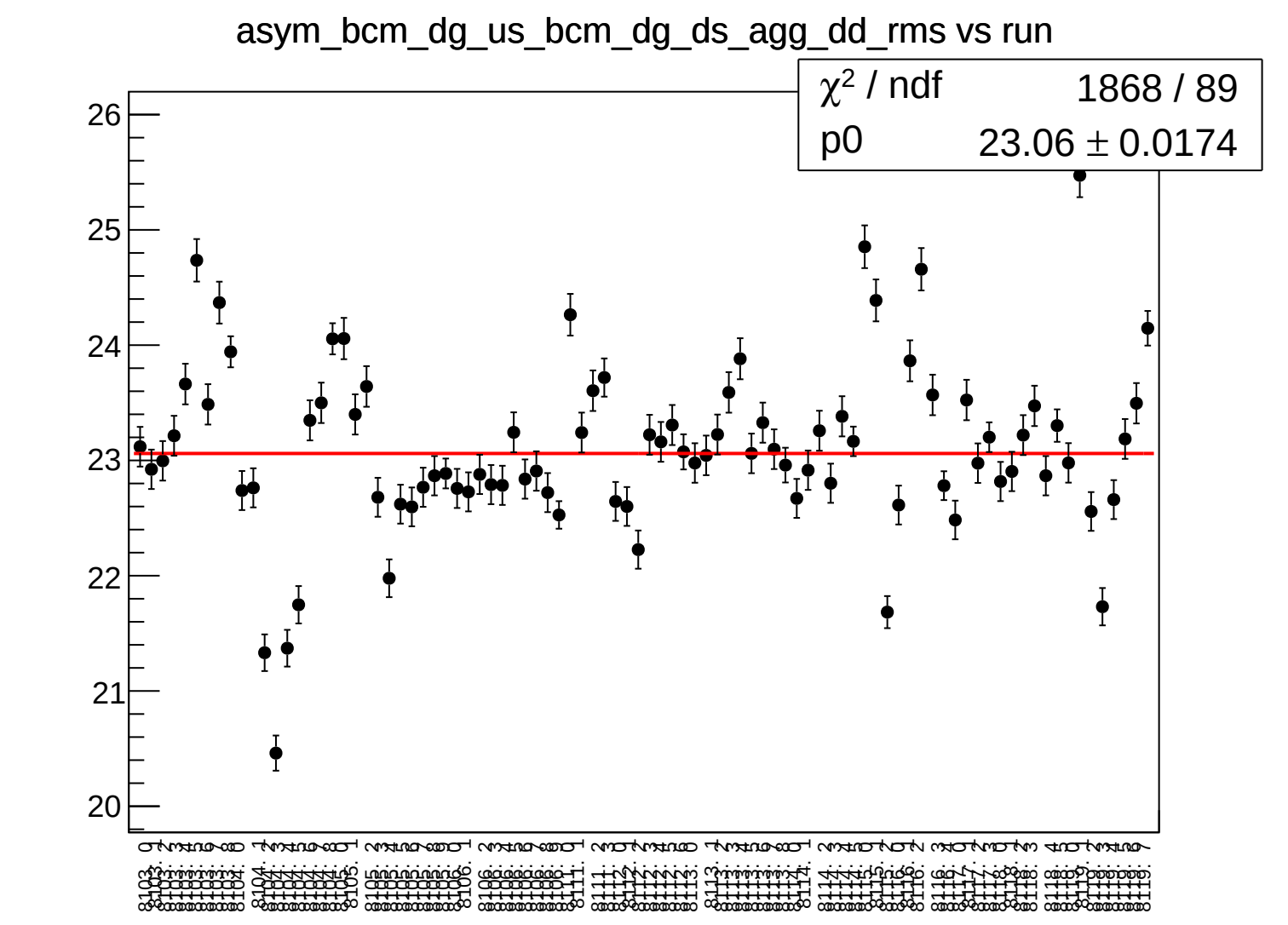

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3216 / 89
p0 16.64 ± 0.01256
21
20
19
18
17
16
15

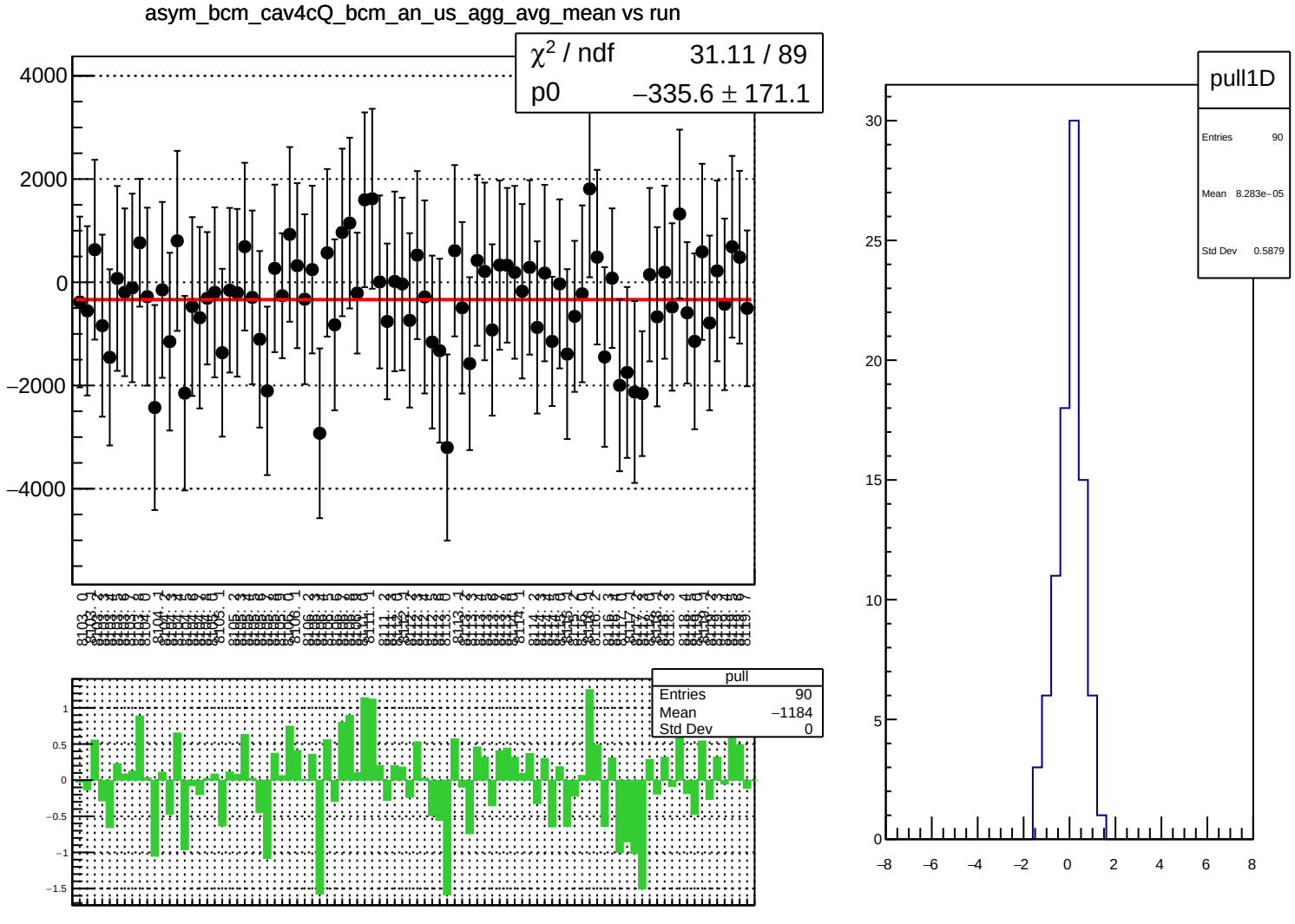

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 31.22 / 89
p0 −322.7 ± 166.6
pull
Entries 90
Mean 833.1
Std Dev 0

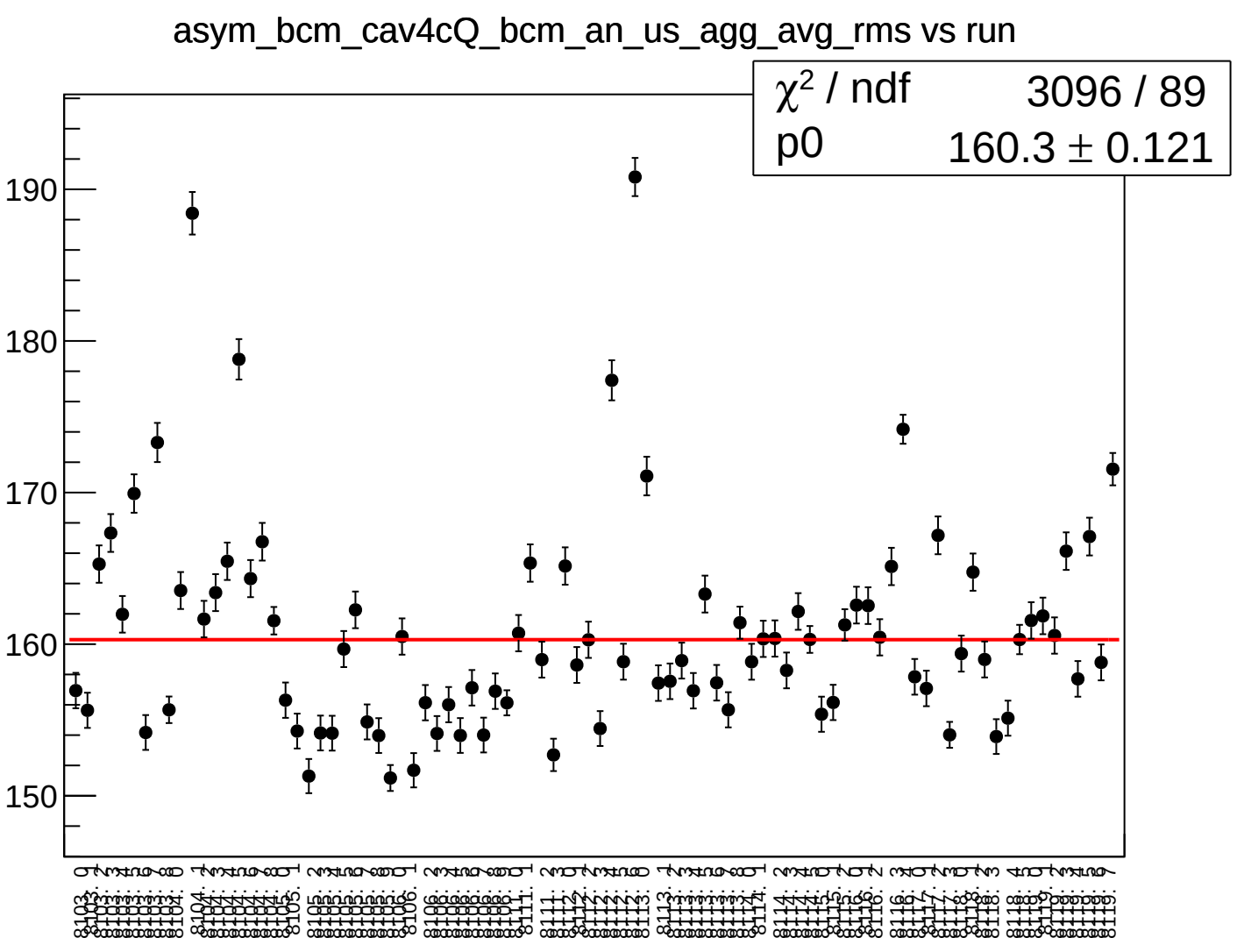

pull1D
Entries 90
Mean −0.001817
Std Dev 0.589

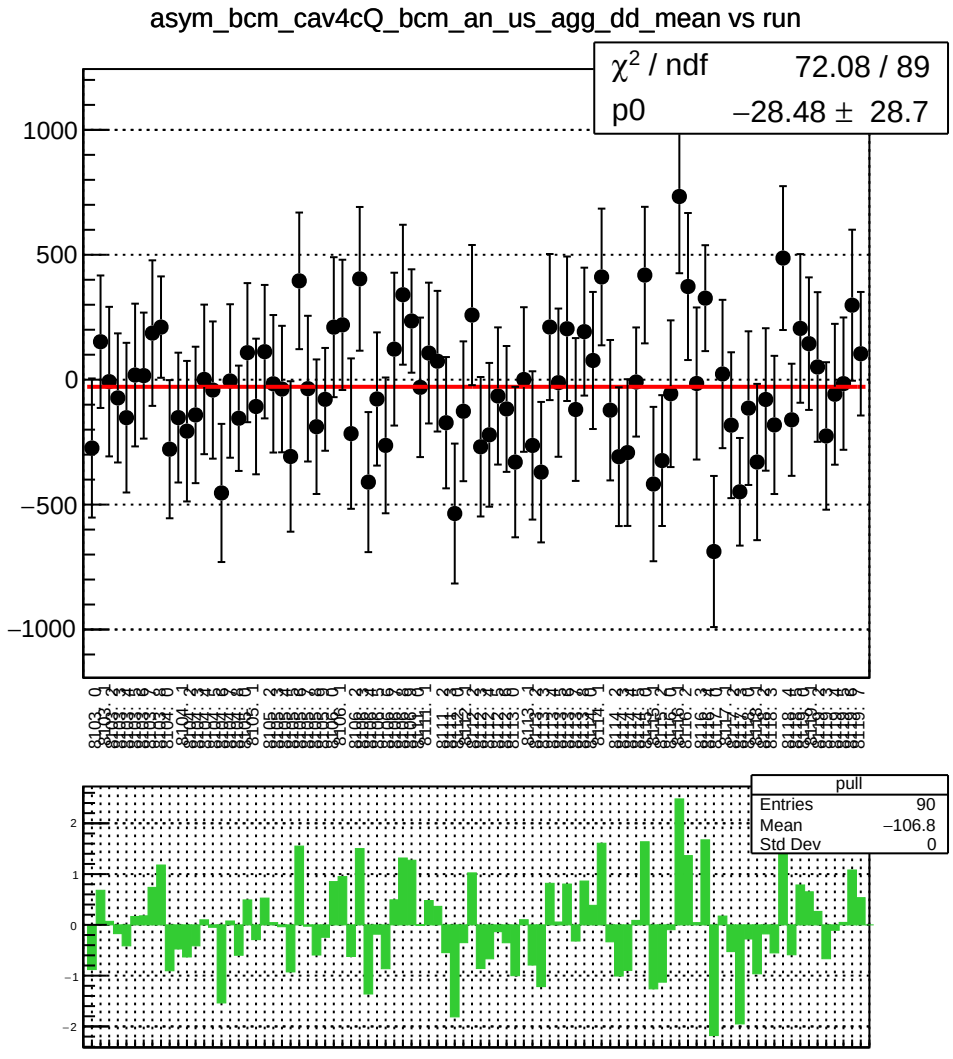

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3042 / 89
p0 156.1 ± 0.1178
190
185
180
175
170
165
160
155
150
145

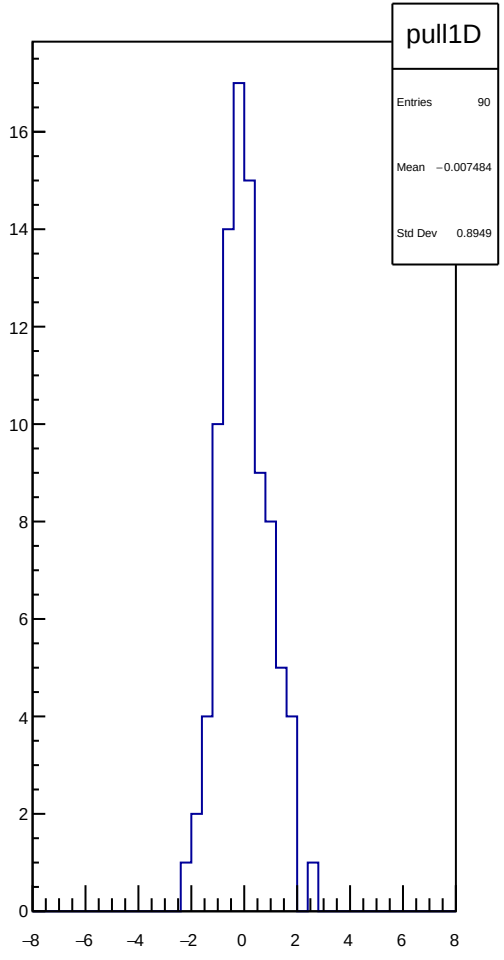

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 71.09 / 89
p0 −3.512 ± 24.6
pull
Entries 90
Mean 287.3
Std Dev 0
pull1D
Entries 90
Mean −0.01314
Std Dev 0.8886

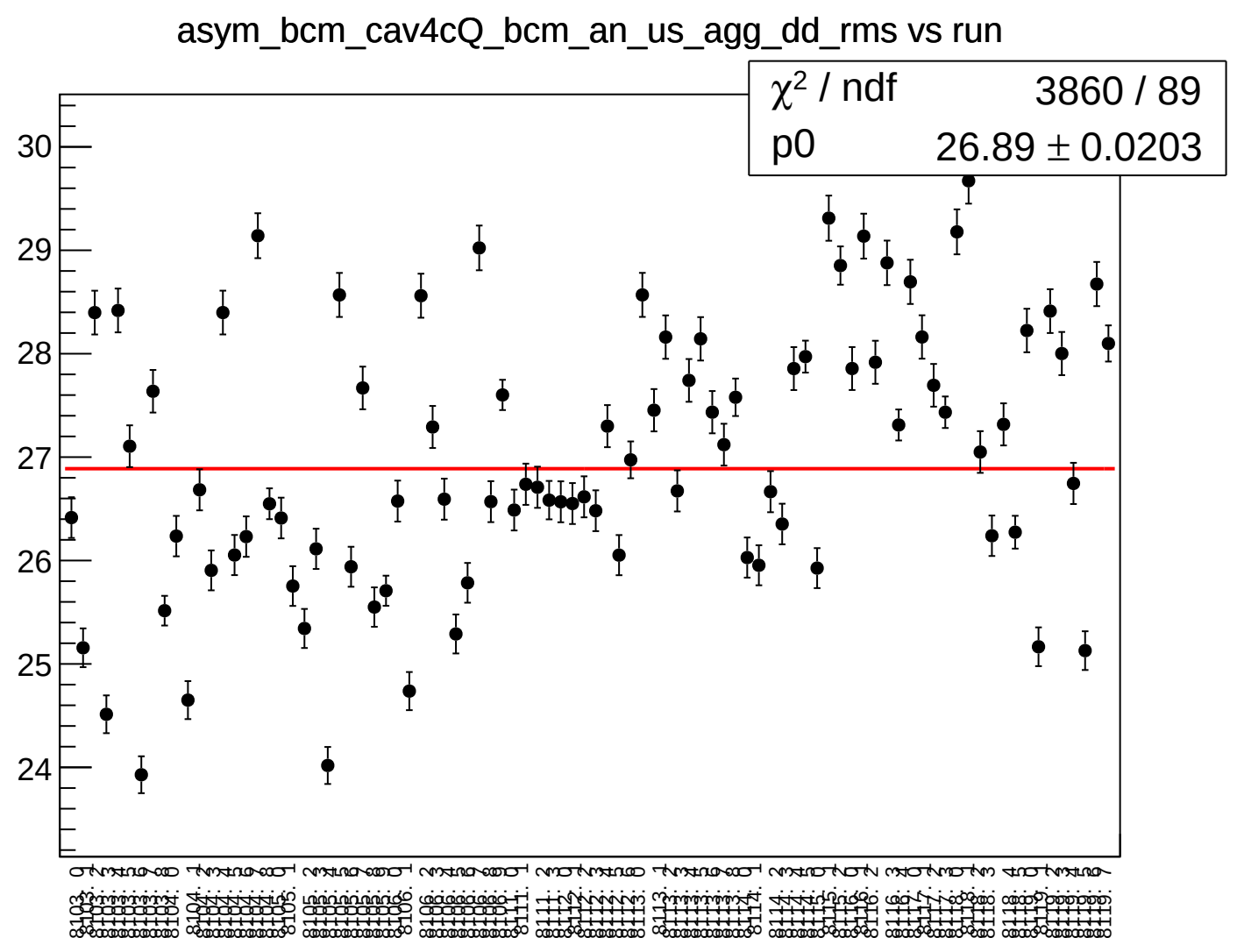

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1868 / 89
p0 23.06 ± 0.0174
26
25
24
23
22
21
20

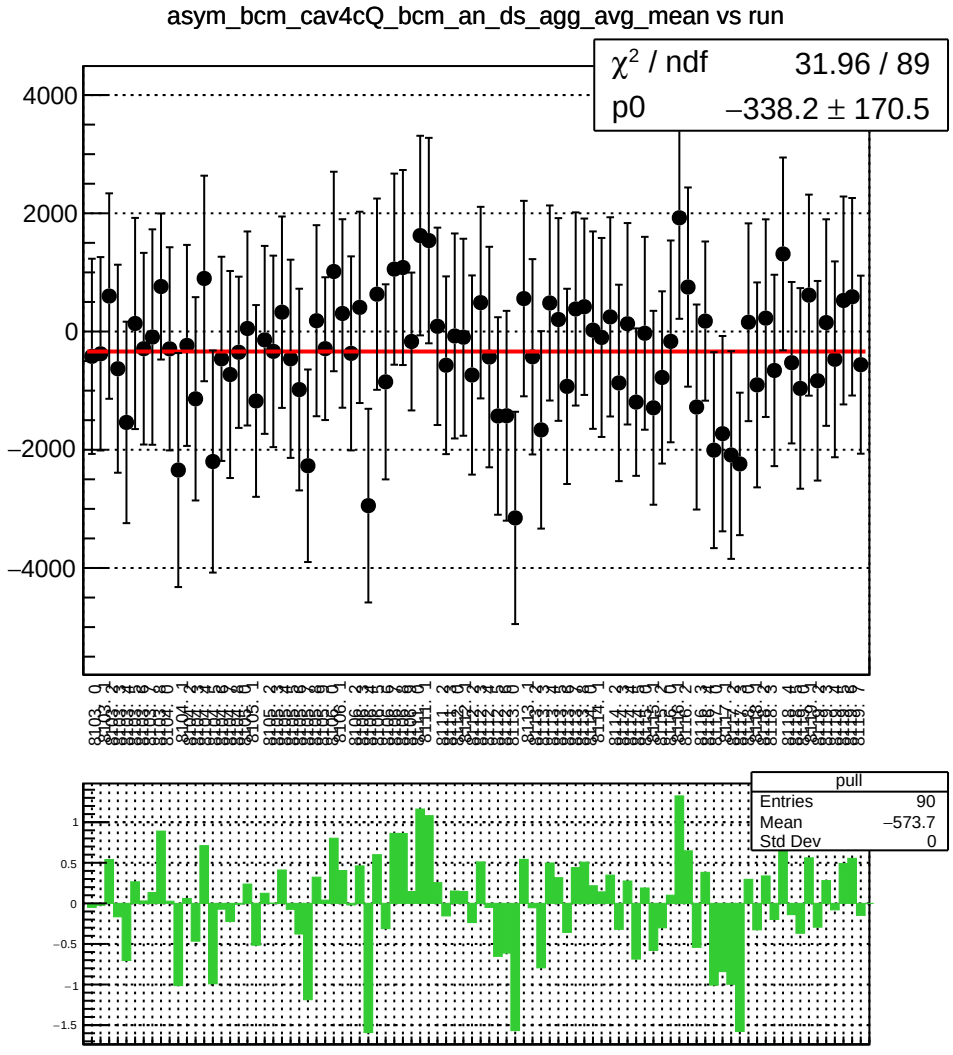

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 31.11 / 89
p0 −335.6 ± 171.1
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −1184
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean 8.283e−05
Std Dev 0.5879
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

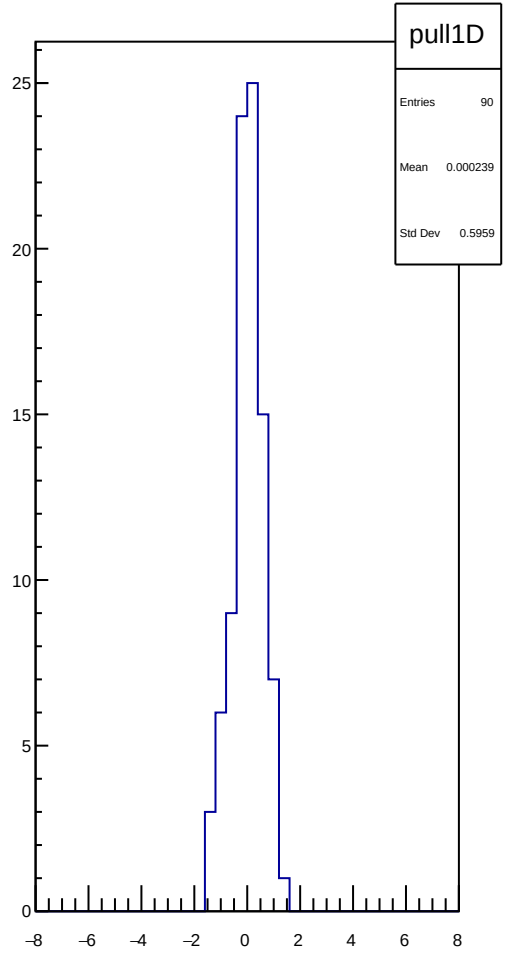

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3096 / 89
p0 160.3 ± 0.121
190
180
170
160
150

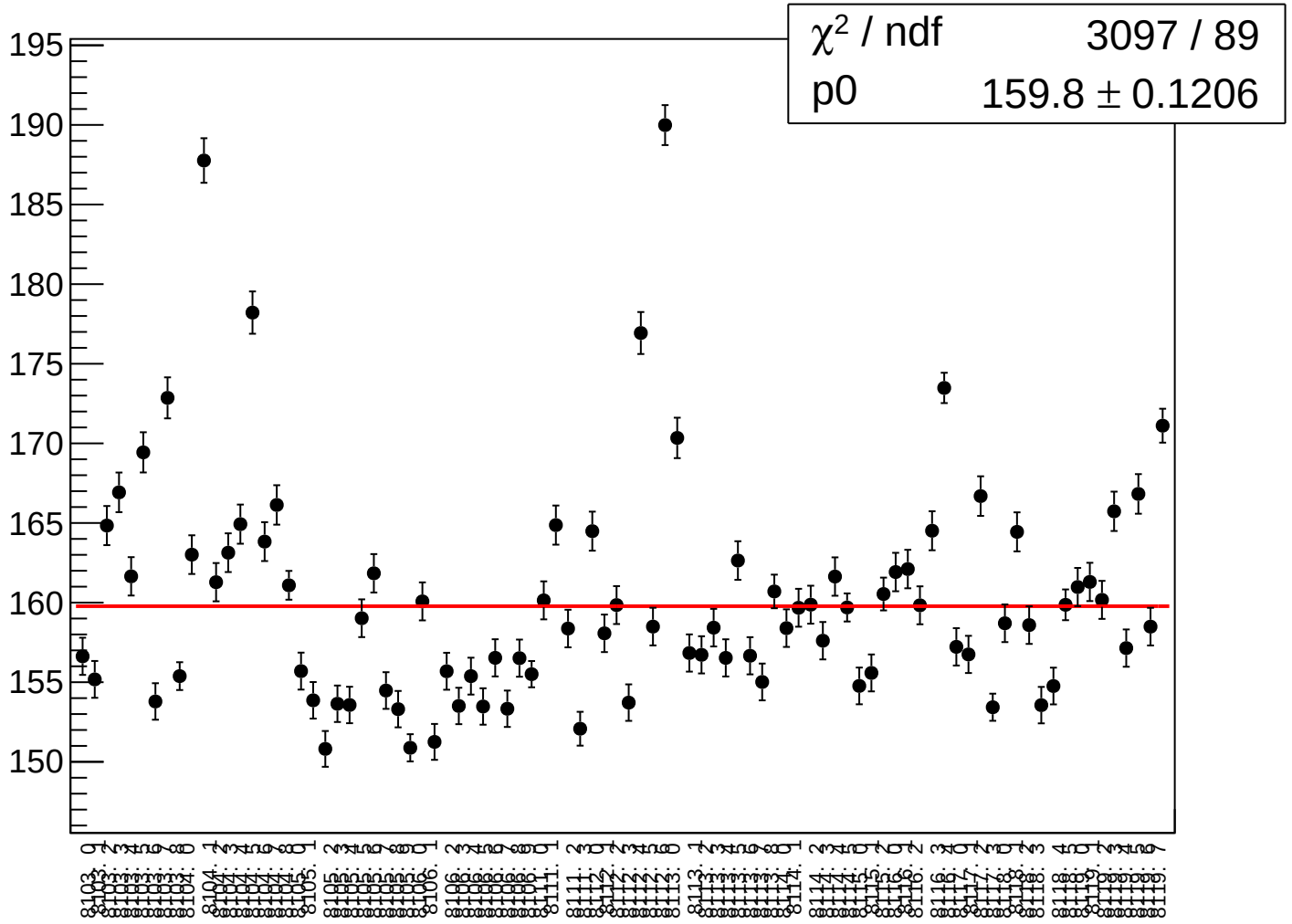

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.08 / 89
p0 −28.48 ± 28.7
1000
500
0
−500
−1000
pull
Entries 90
Mean −106.8
Std Dev 0
2
1
0
−1
−2

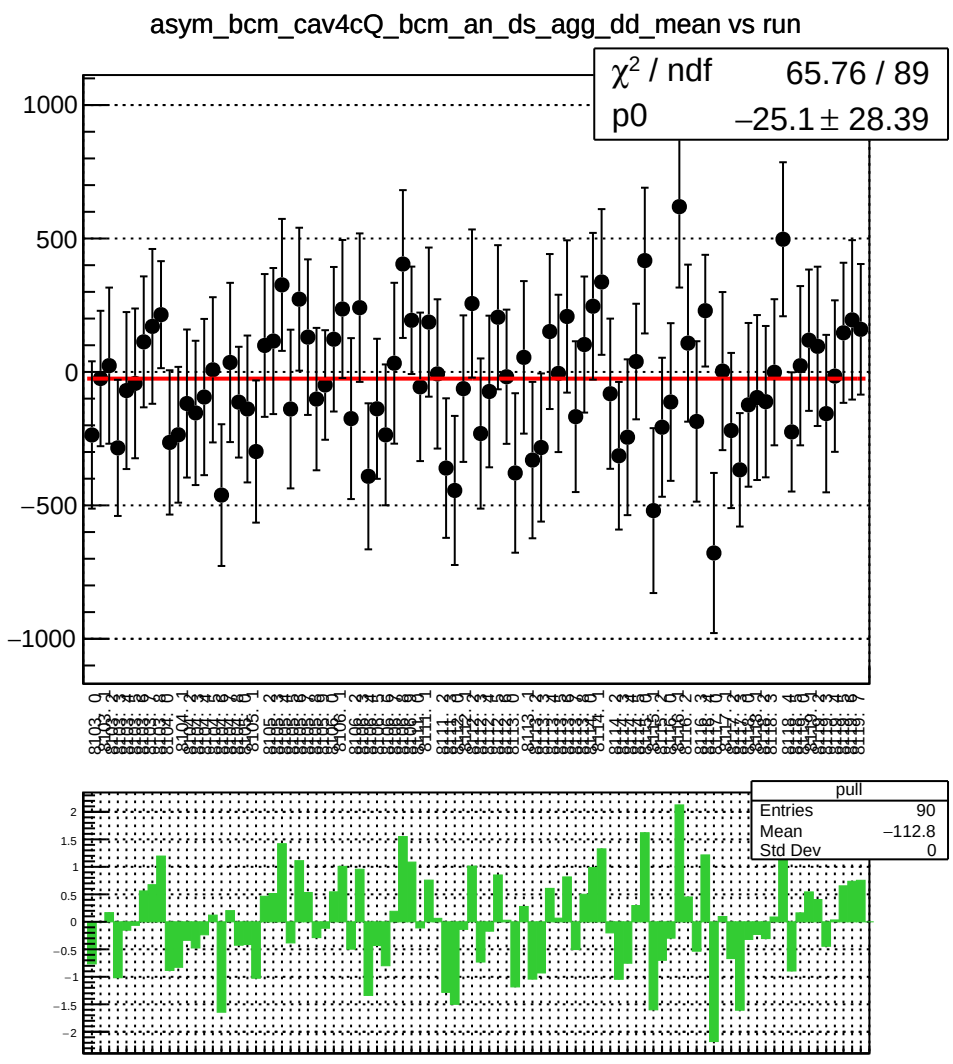

pull1D
Entries 90
Mean −0.007484
Std Dev 0.8949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

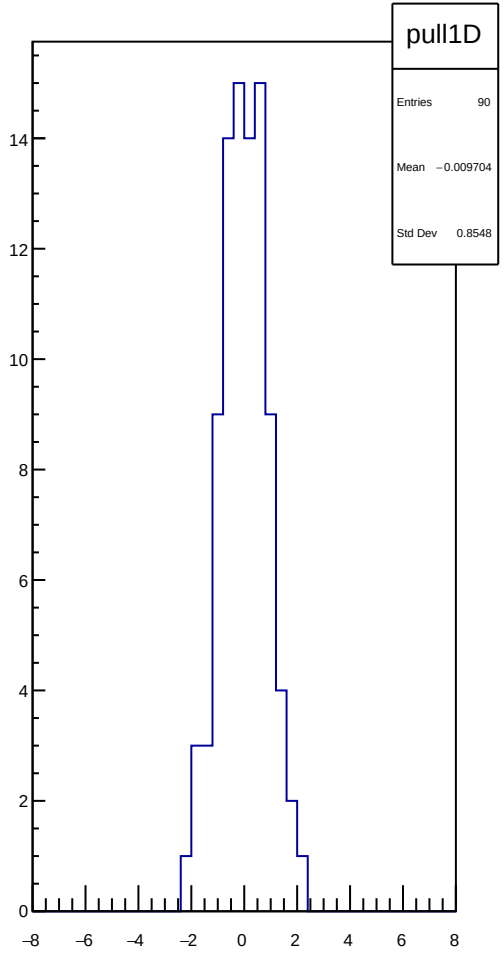

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3860 / 89
p0 26.89 ± 0.0203
30
29
28
27
26
25
24

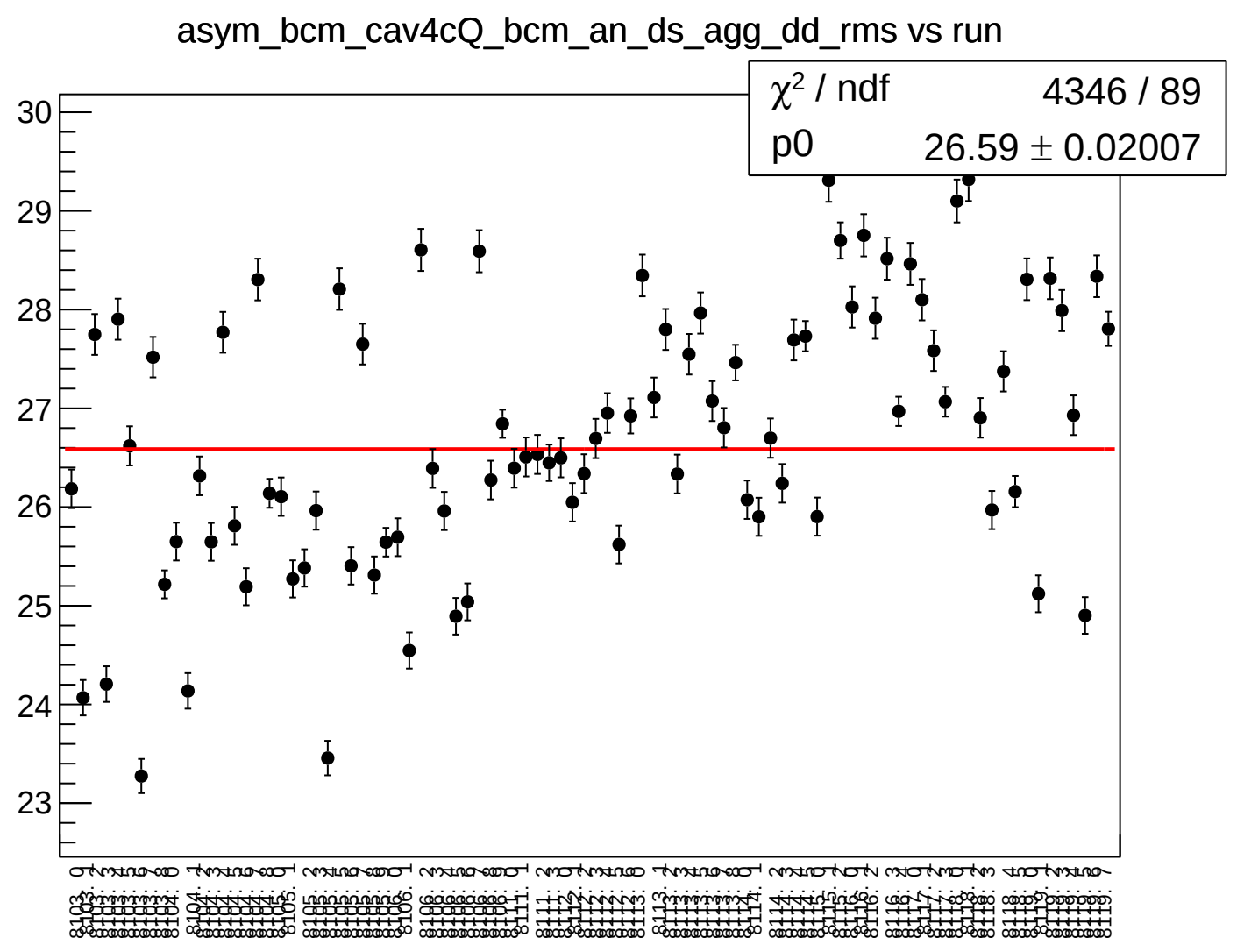

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 31.96 / 89
p0 −338.2 ± 170.5
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −573.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

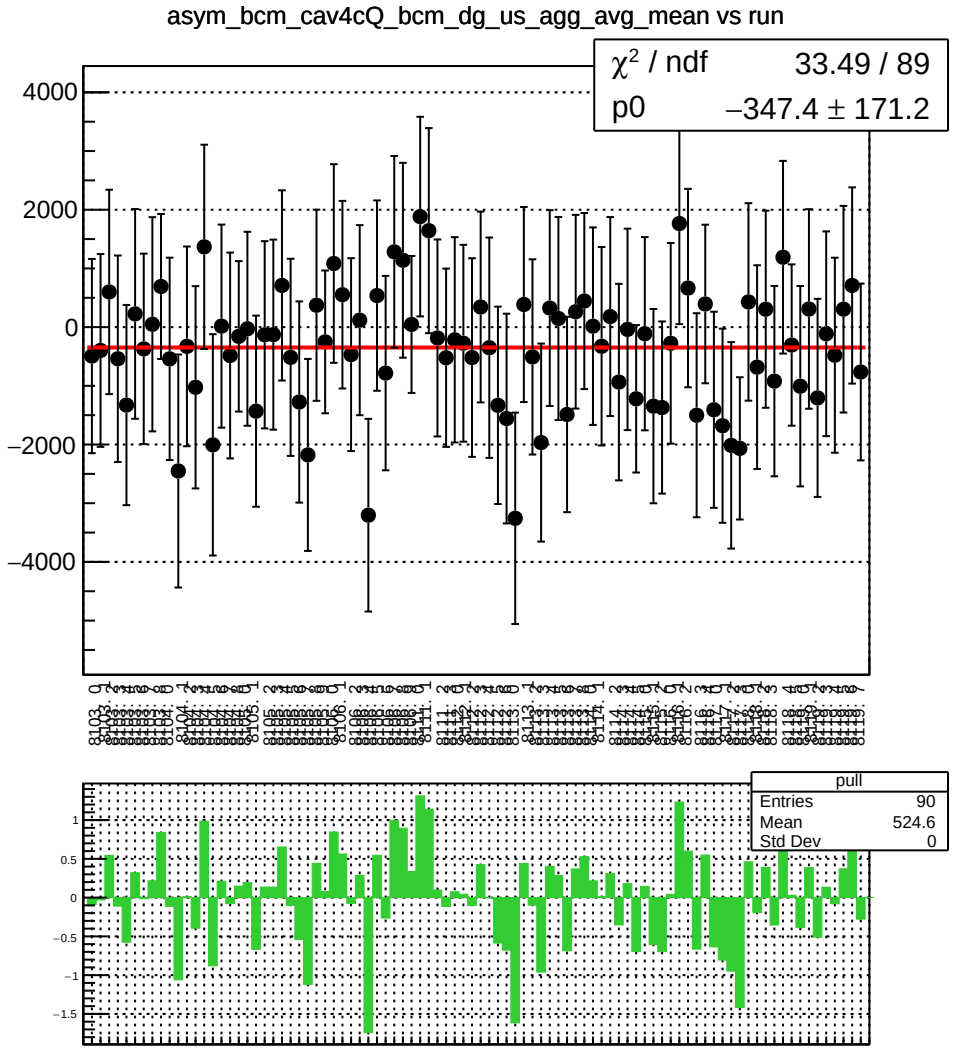

pull1D
Entries 90
Mean 0.000239
Std Dev 0.5959
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

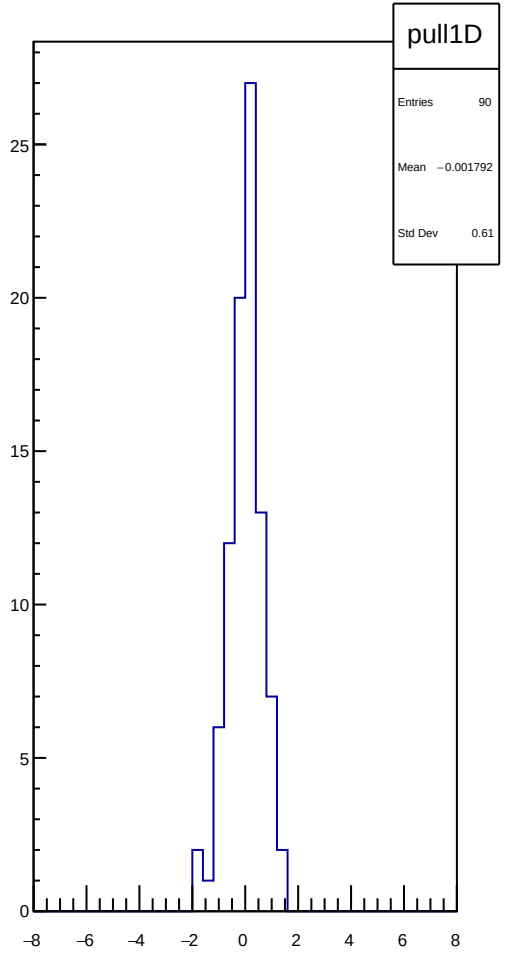

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3097 / 89
p0 159.8 ± 0.1206
195
190
185
180
175
170
165
160
155
150

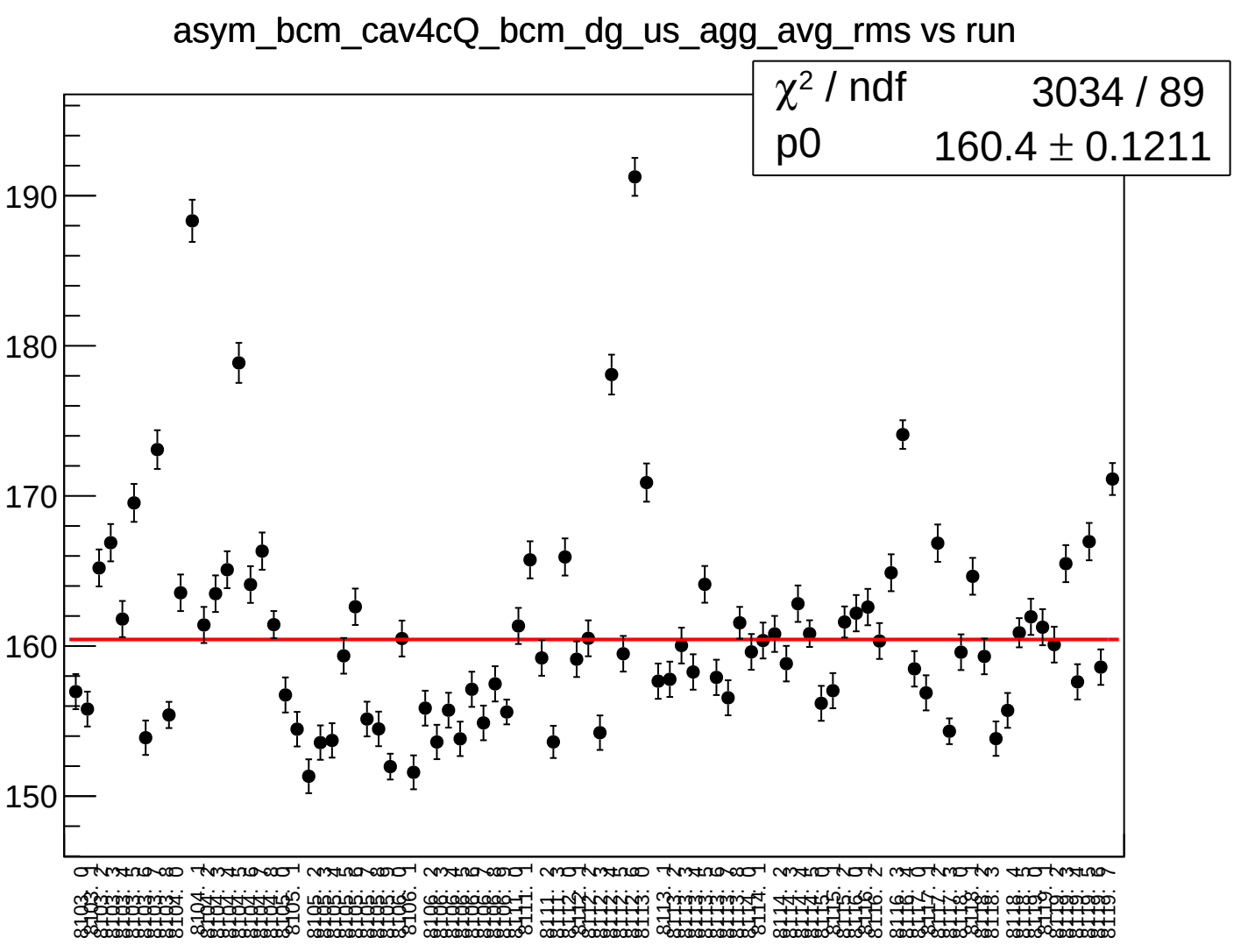

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 65.76 / 89
p0 −25.1 ± 28.39
1000
500
0
−500
−1000
pull
Entries 90
Mean −112.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

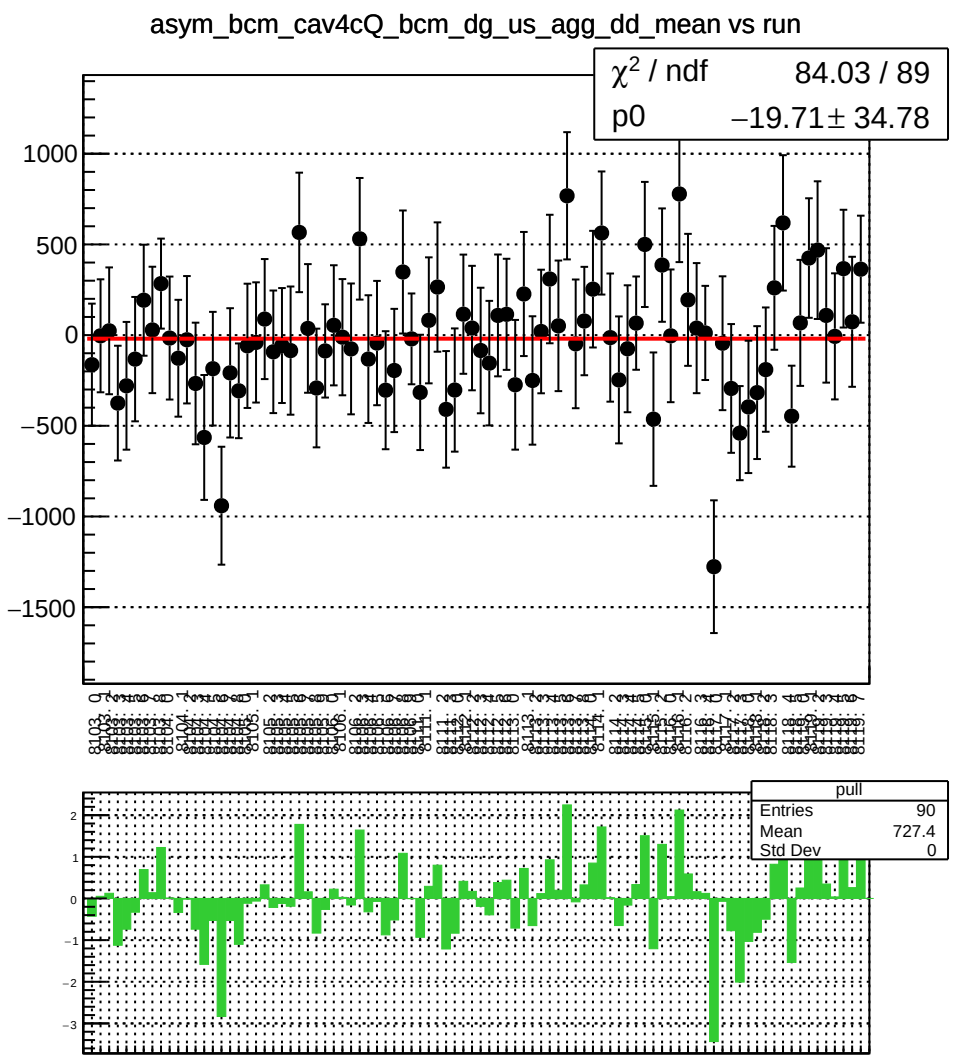

pull1D
Entries 90
Mean −0.009704
Std Dev 0.8548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

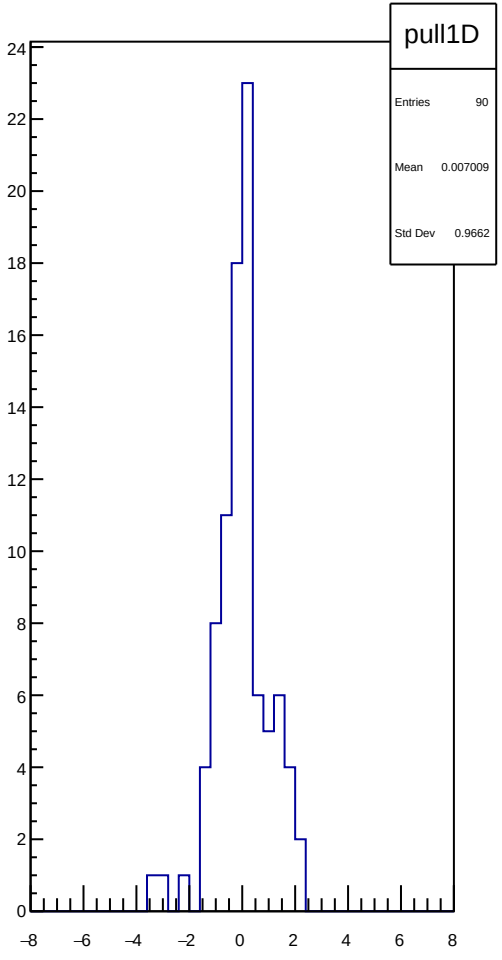

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4346 / 89
p0 26.59 ± 0.02007
30
29
28
27
26
25
24
23

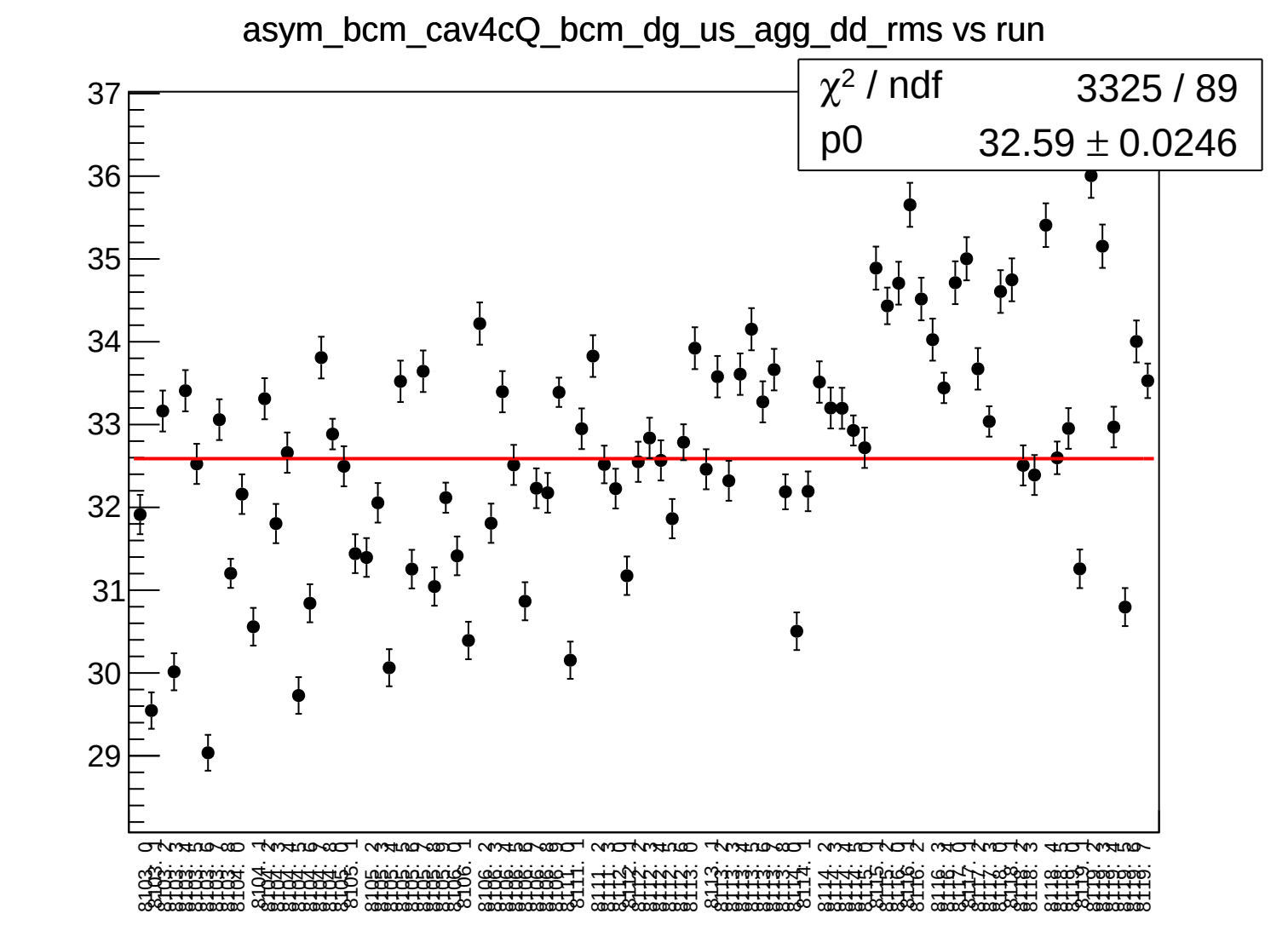

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 33.49 / 89
p0 −347.4 ± 171.2
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 524.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

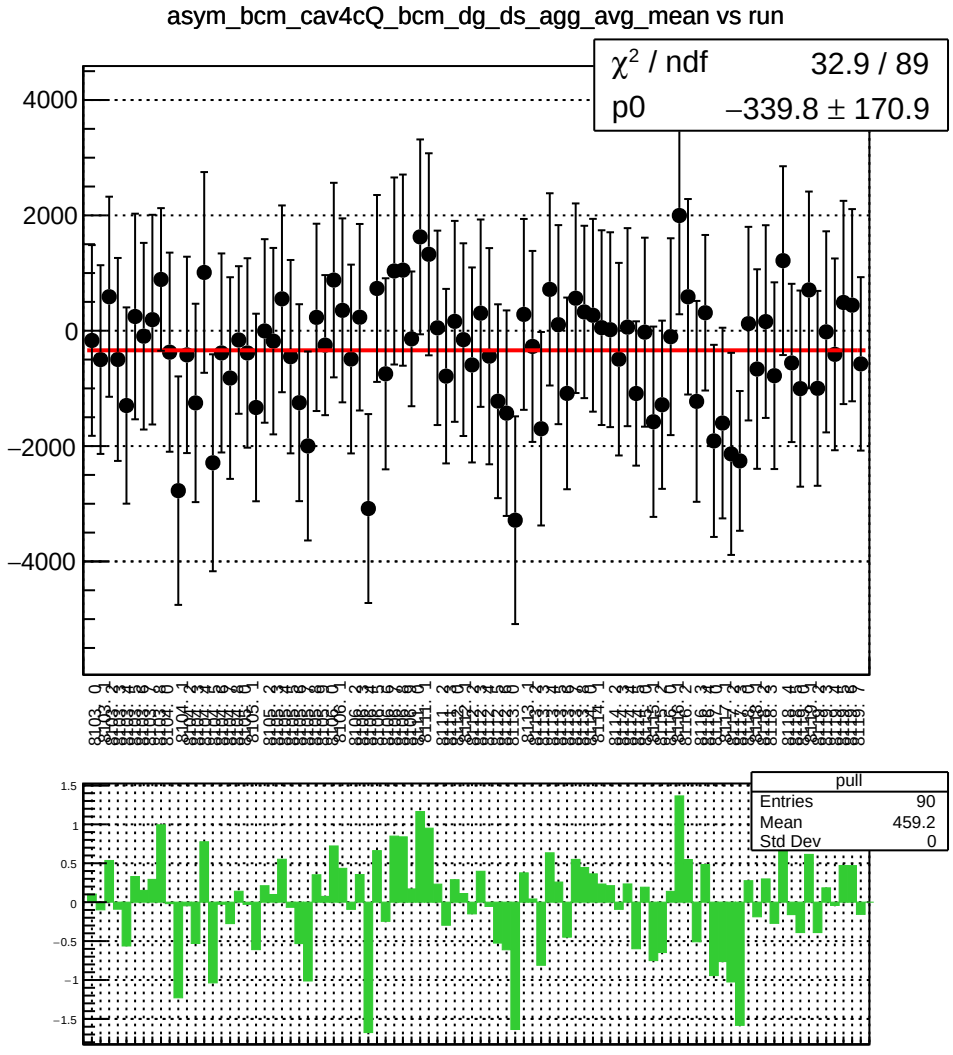

pull1D
Entries 90
Mean −0.001792
Std Dev 0.61
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

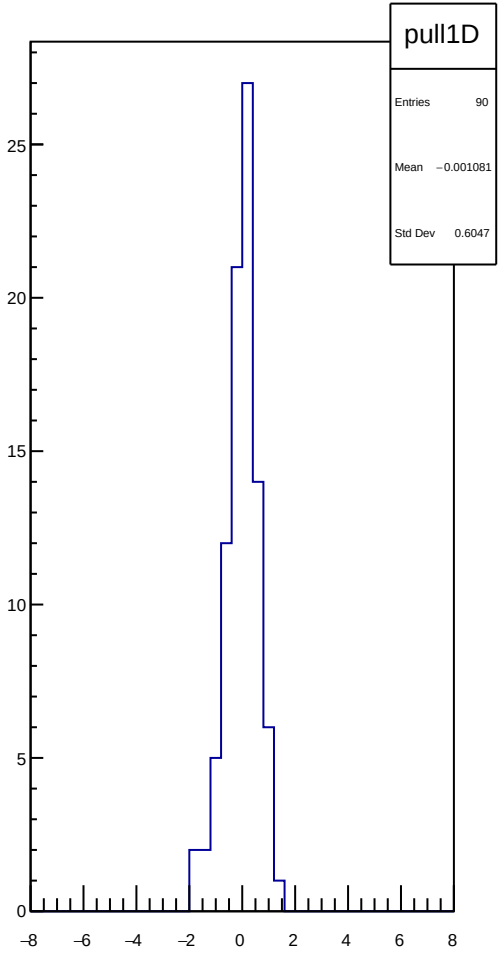

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3034 / 89
p0 160.4 ± 0.1211
190
180
170
160
150

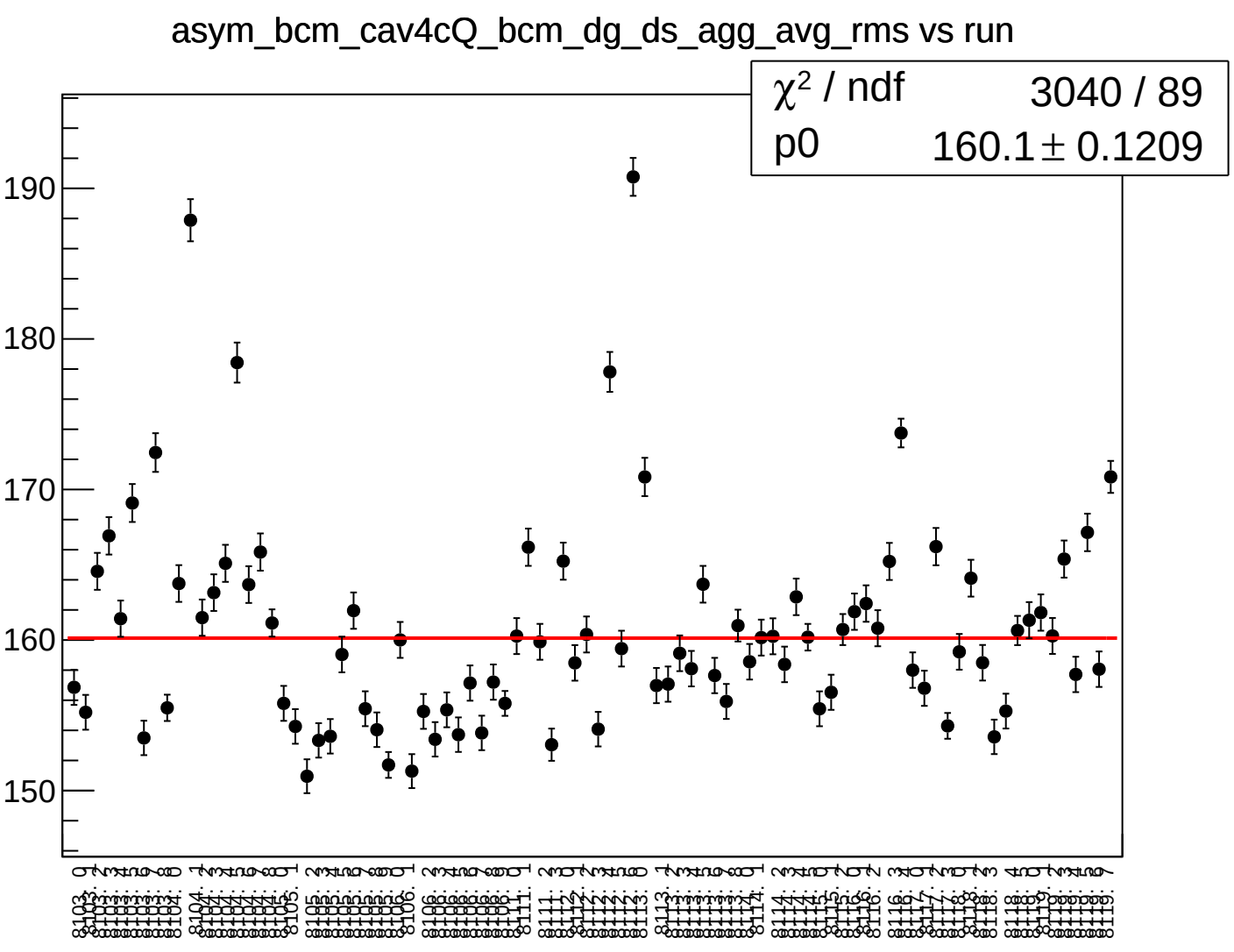

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 84.03 / 89
p0 −19.71 ± 34.78
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean 727.4
Std Dev 0
2
1
0
−1
−2
−3

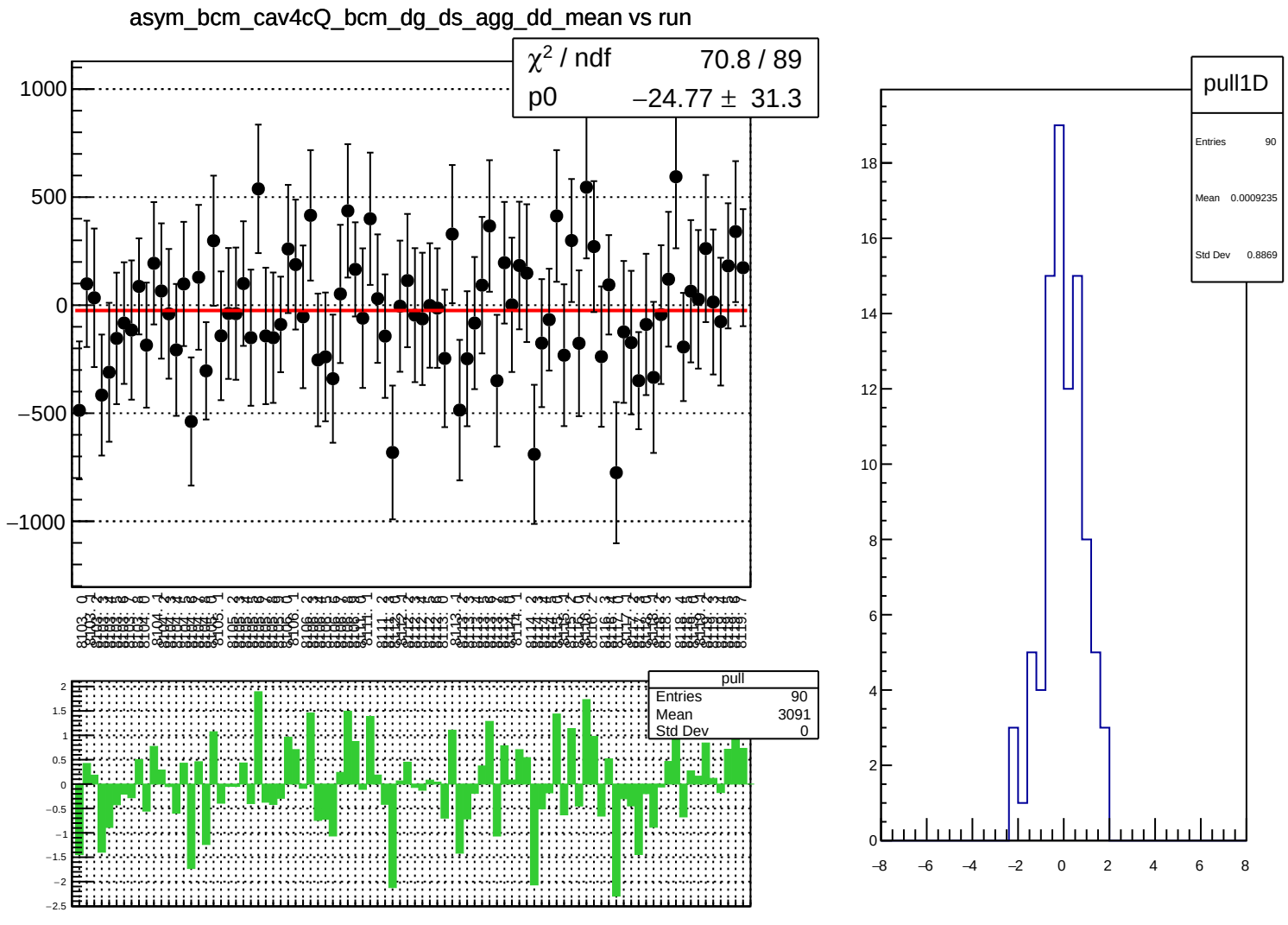

pull1D
Entries 90
Mean 0.007009
Std Dev 0.9662
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

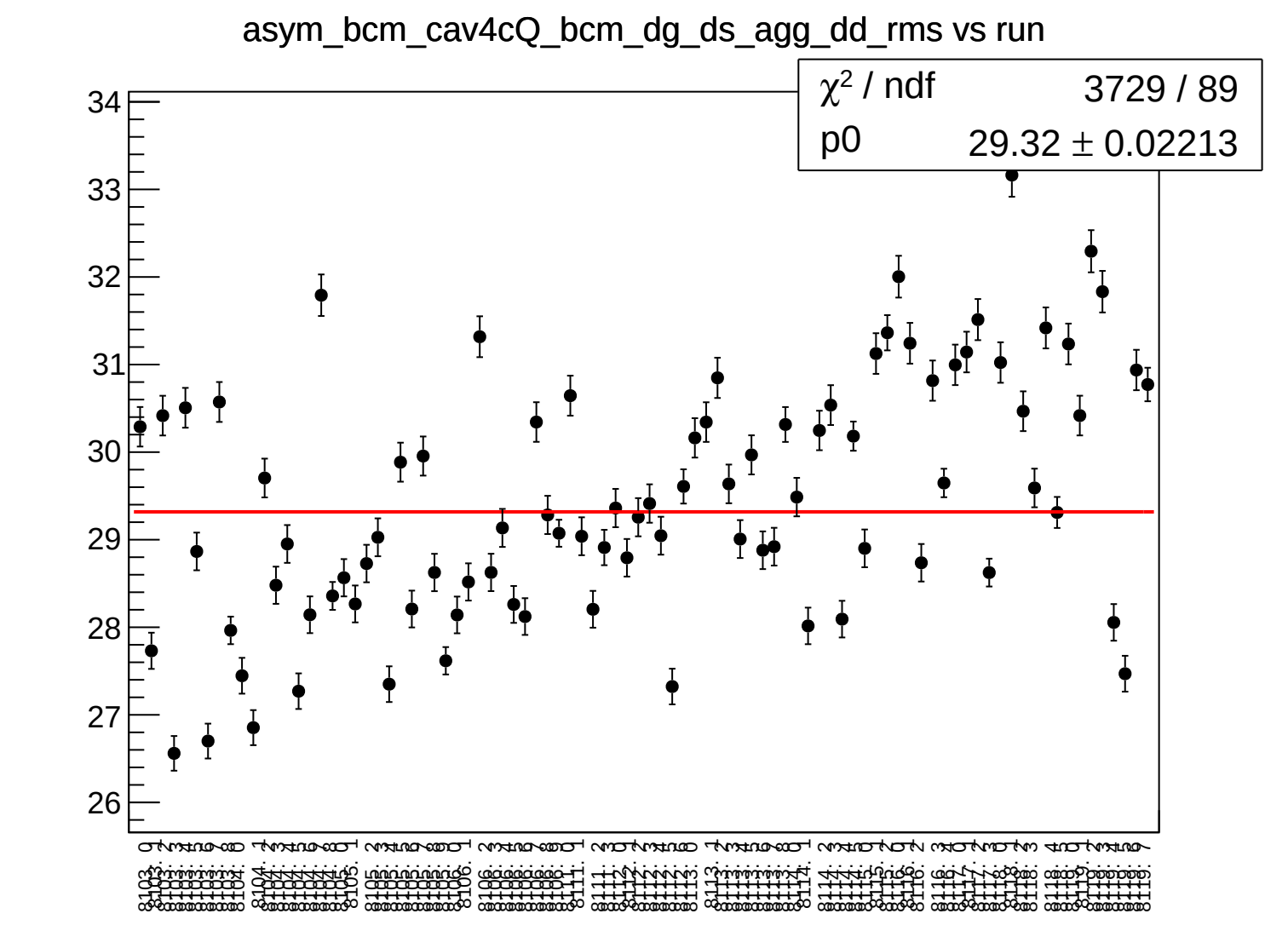

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3325 / 89
p0 32.59 ± 0.0246
37
36
35
34
33
32
31
30
29

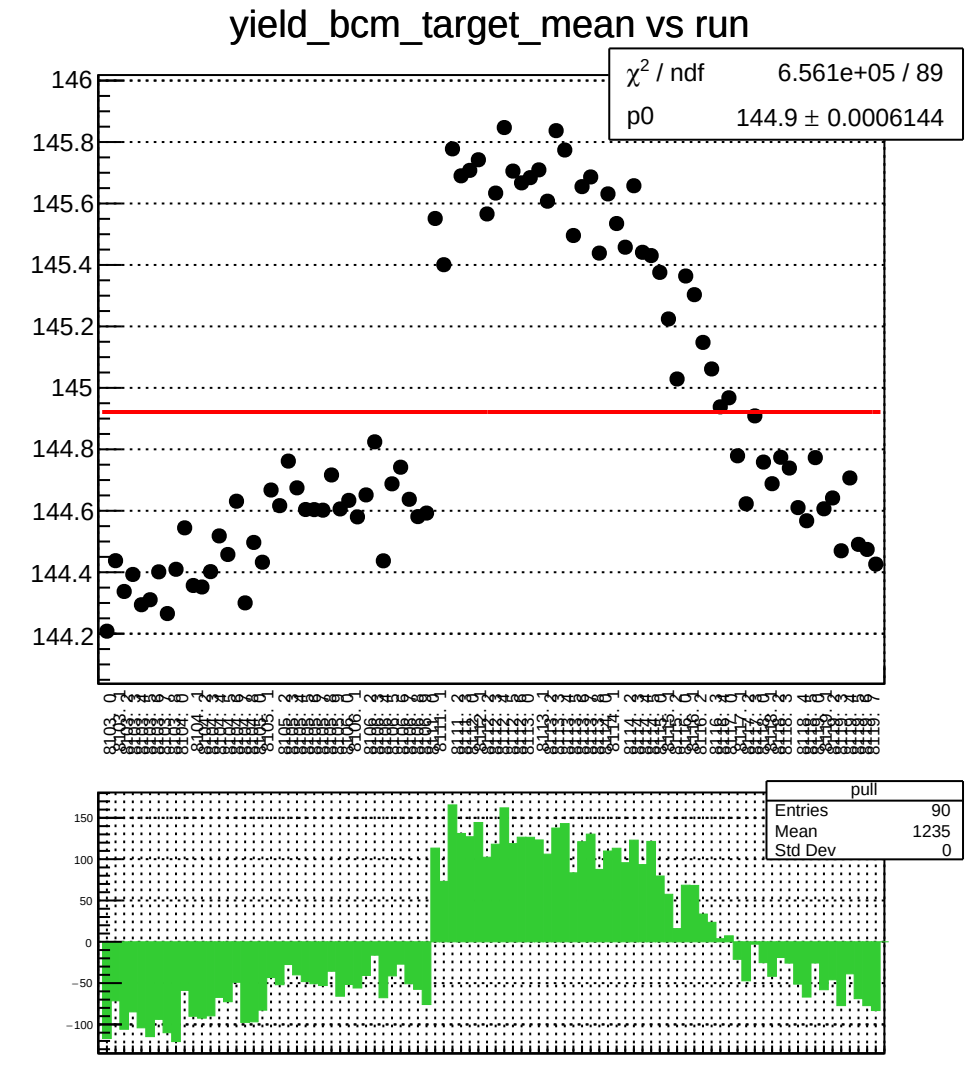

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 32.9 / 89
p0 −339.8 ± 170.9
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 459.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

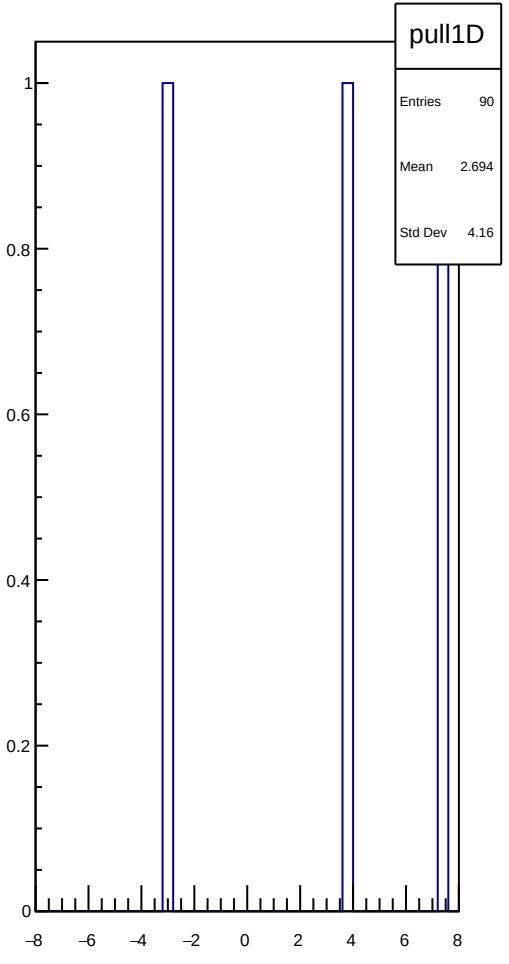

pull1D
Entries 90
Mean −0.001081
Std Dev 0.6047
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

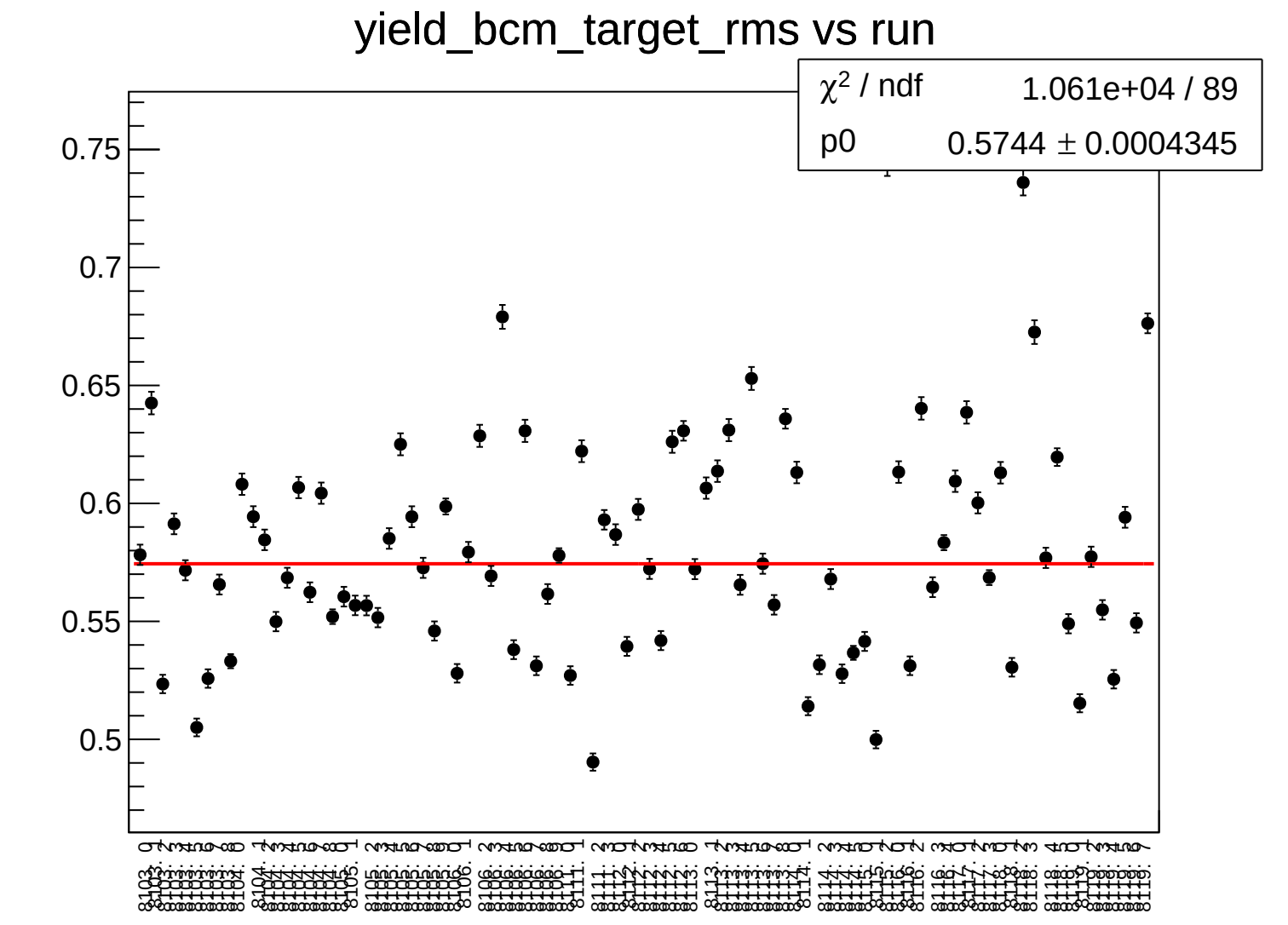

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3040 / 89
p0 160.1 ± 0.1209
190
180
170
160
150

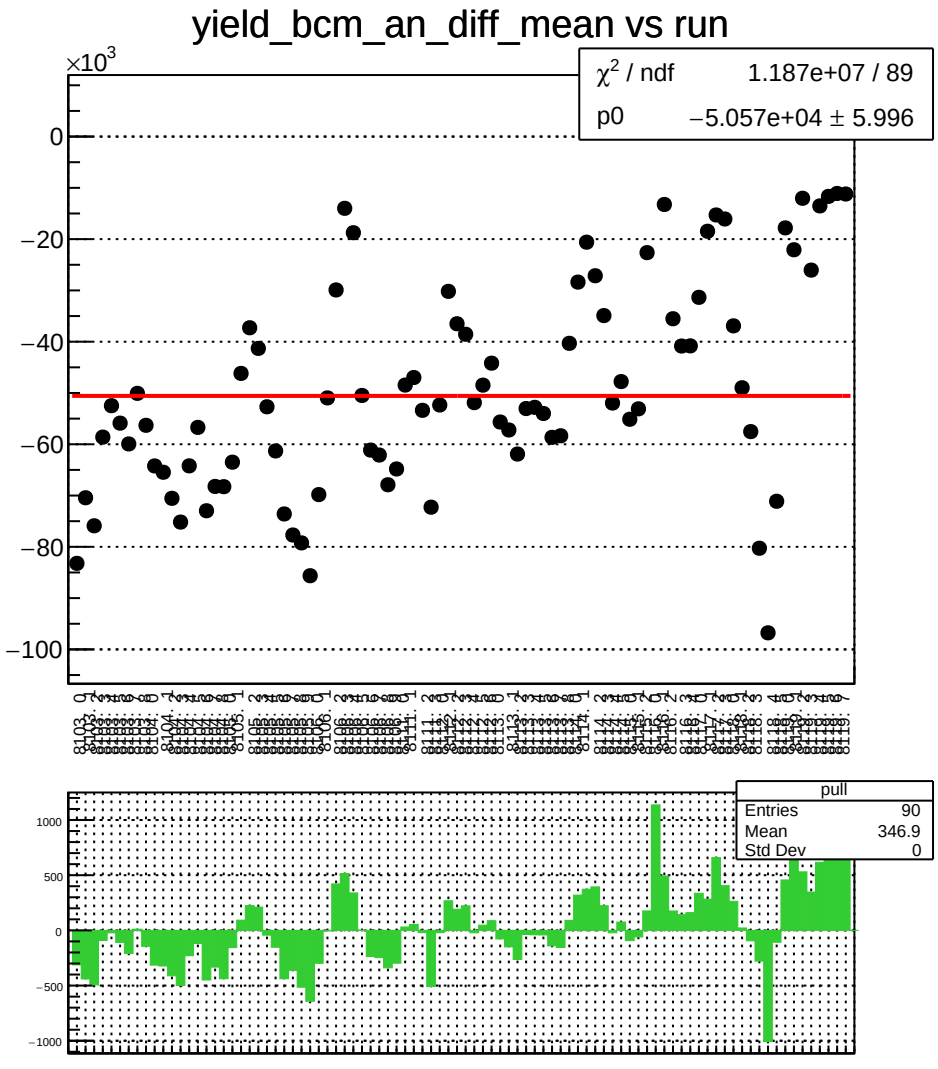

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 70.8 / 89
p0 −24.77 ± 31.3
1000
500
0
−500
−1000
pull
Entries 90
Mean 3091
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 90
Mean 0.0009235
Std Dev 0.8869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

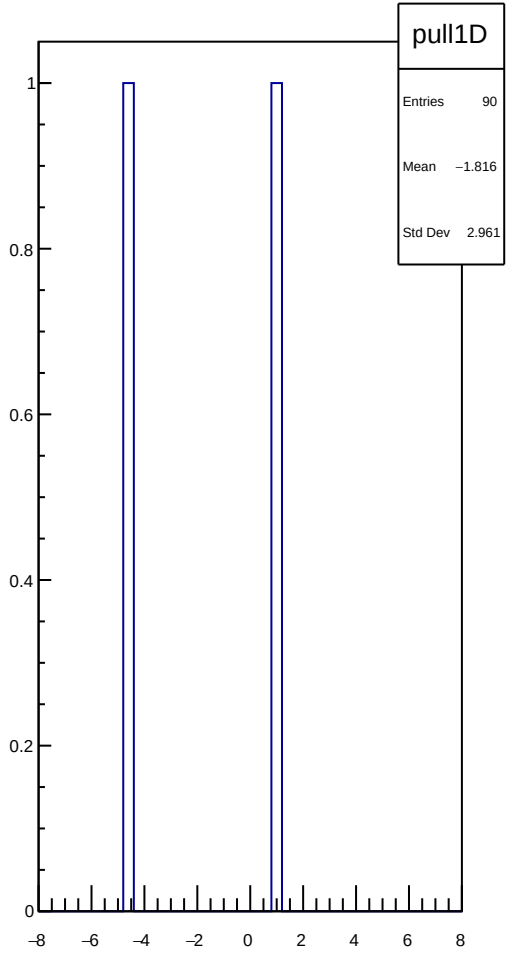

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3729 / 89
p0 29.32 ± 0.02213
34
33
32
31
30
29
28
27
26

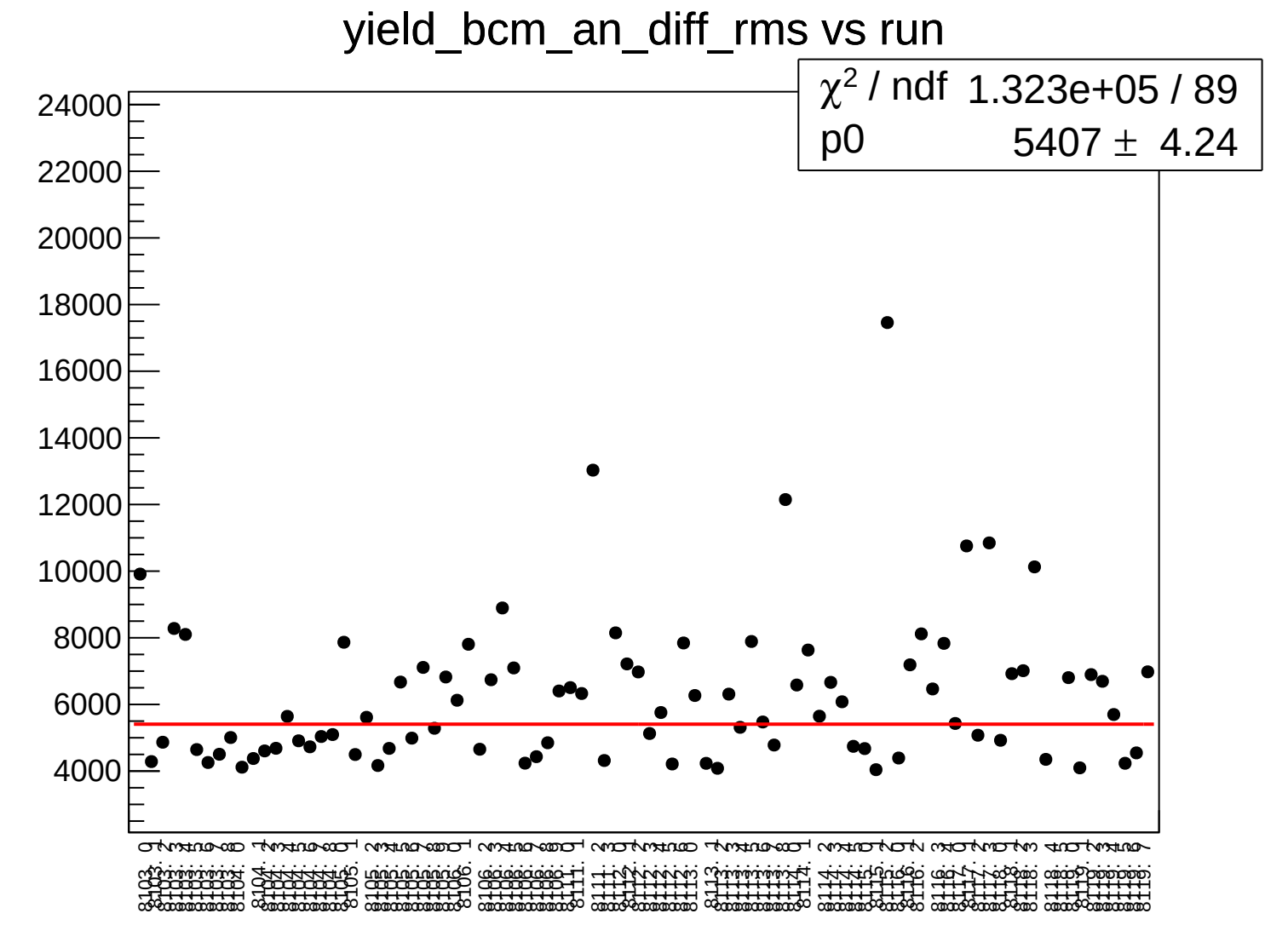

yield_bcm_target_mean vs run
χ² / ndf 6.561e+05 / 89
p0 144.9 ± 0.0006144
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 90
Mean 1235
Std Dev 0
150
100
50
0
−50
−100

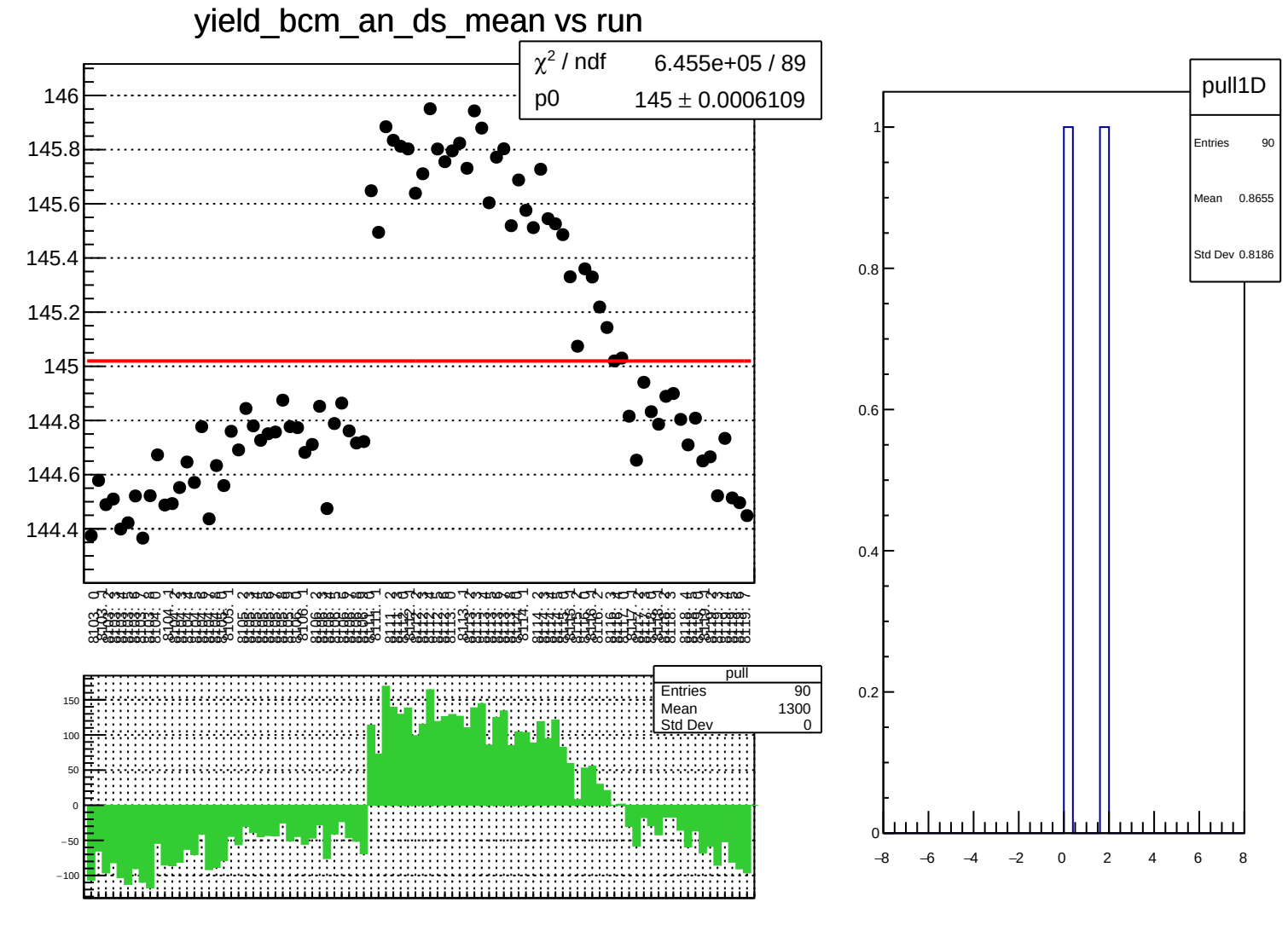

pull1D
Entries 90
Mean 2.694
Std Dev 4.16
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

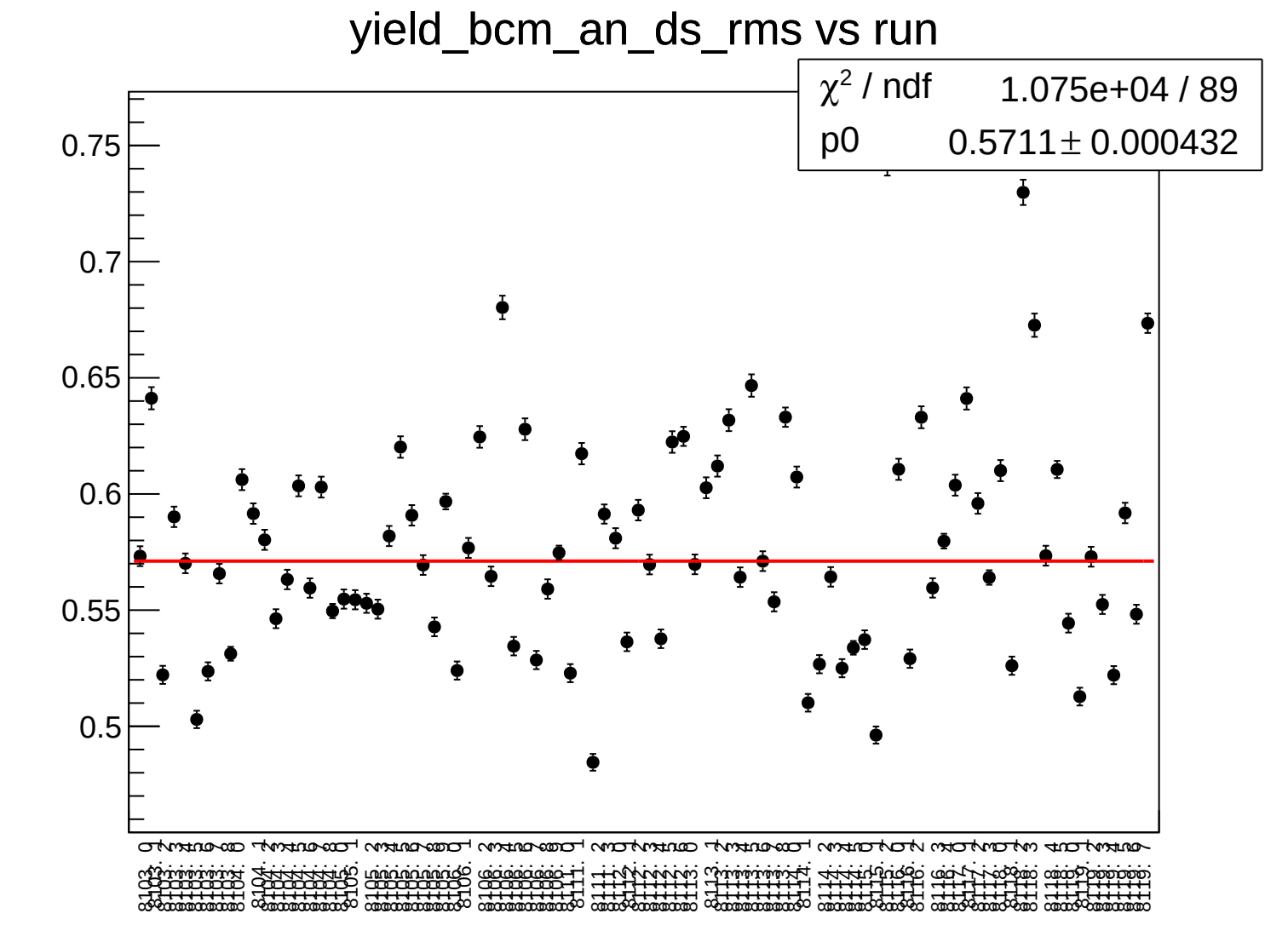

yield_bcm_target_rms vs run
χ² / ndf 1.061e+04 / 89
p0 0.5744 ± 0.0004345
0.75
0.7
0.65
0.6
0.55
0.5

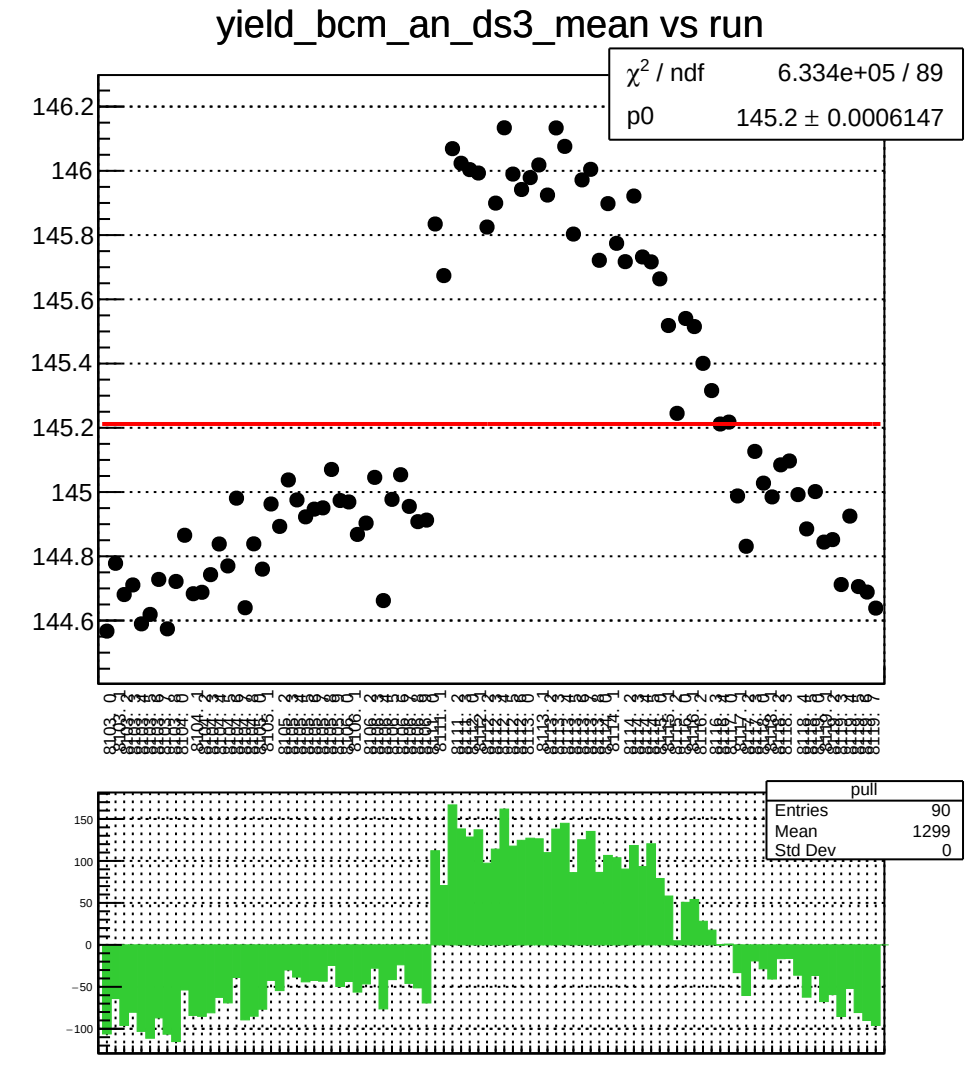

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 1.187e+07 / 89
p0 −5.057e+04 ± 5.996
0
−20
−40
−60
−80
−100
pull
Entries 90
Mean 346.9
Std Dev 0
1000
500
0
−500
−1000

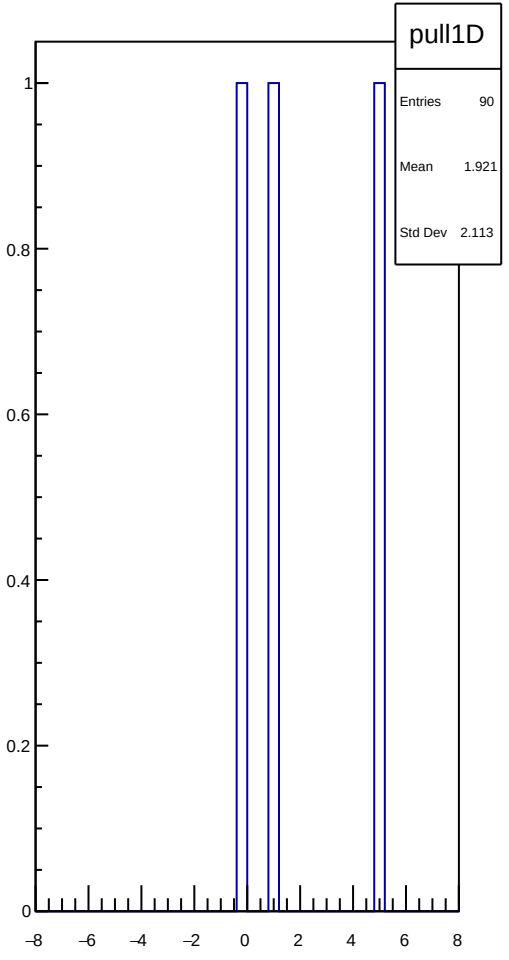

pull1D
Entries 90
Mean −1.816
Std Dev 2.961
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

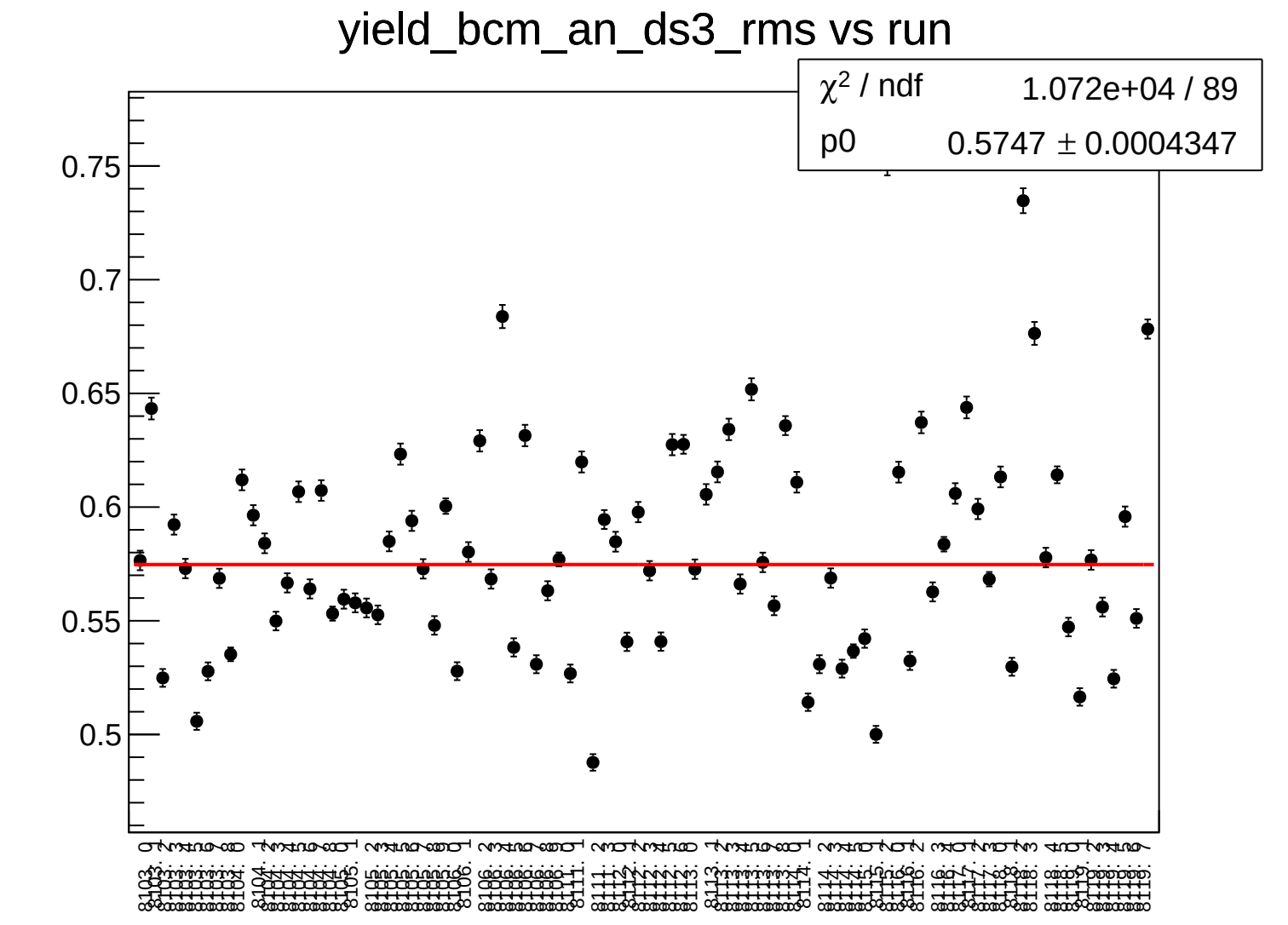

yield_bcm_an_diff_rms vs run
χ² / ndf 1.323e+05 / 89
p0 5407 ± 4.24
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000

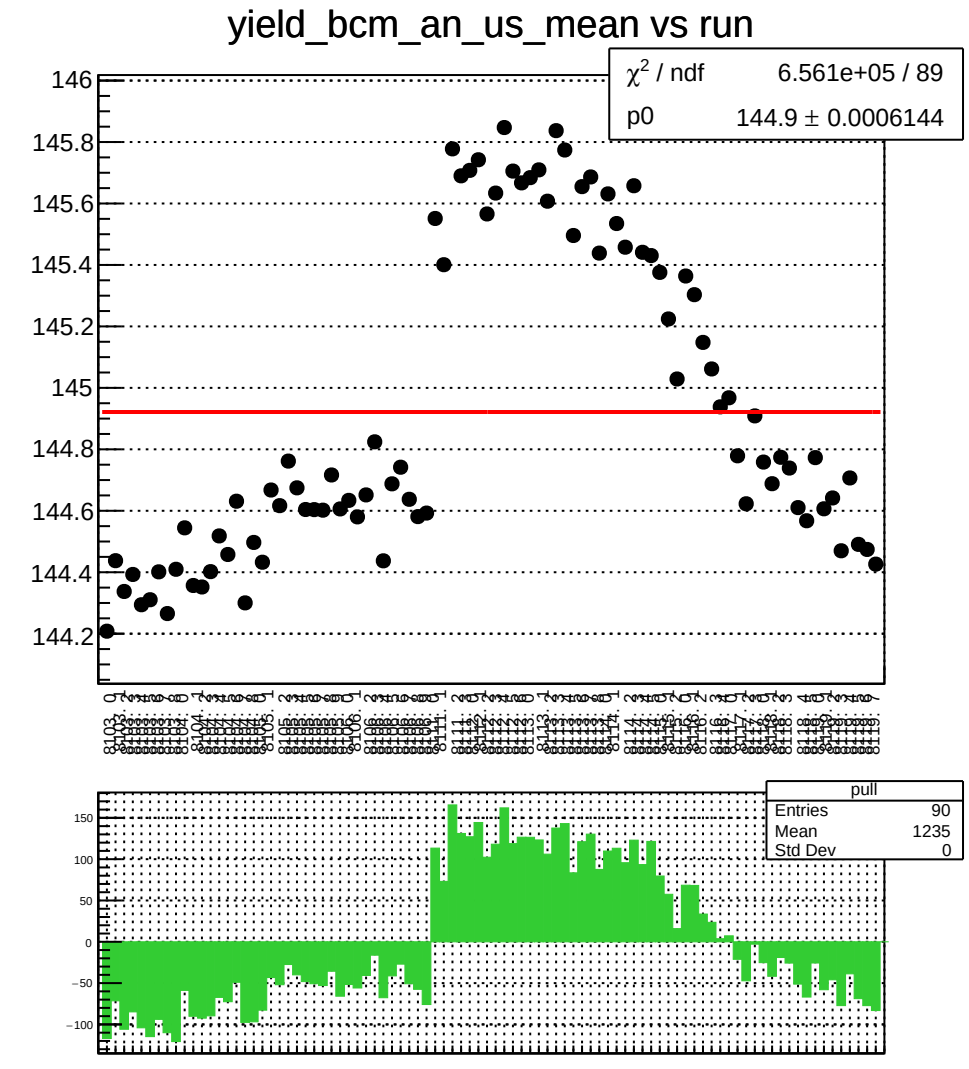

yield_bcm_an_ds_mean vs run
χ² / ndf 6.455e+05 / 89
p0 145 ± 0.0006109
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 90
Mean 1300
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 90
Mean 0.8655
Std Dev 0.8186
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

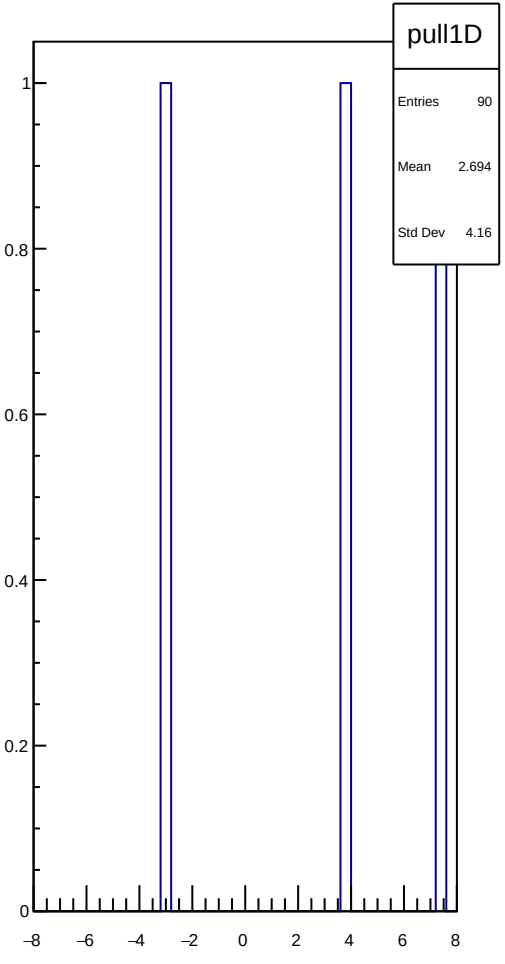

yield_bcm_an_ds_rms vs run
χ^2 / ndf 1.075e+04 / 89
p0 0.5711 ± 0.000432
0.75
0.7
0.65
0.6
0.55
0.5

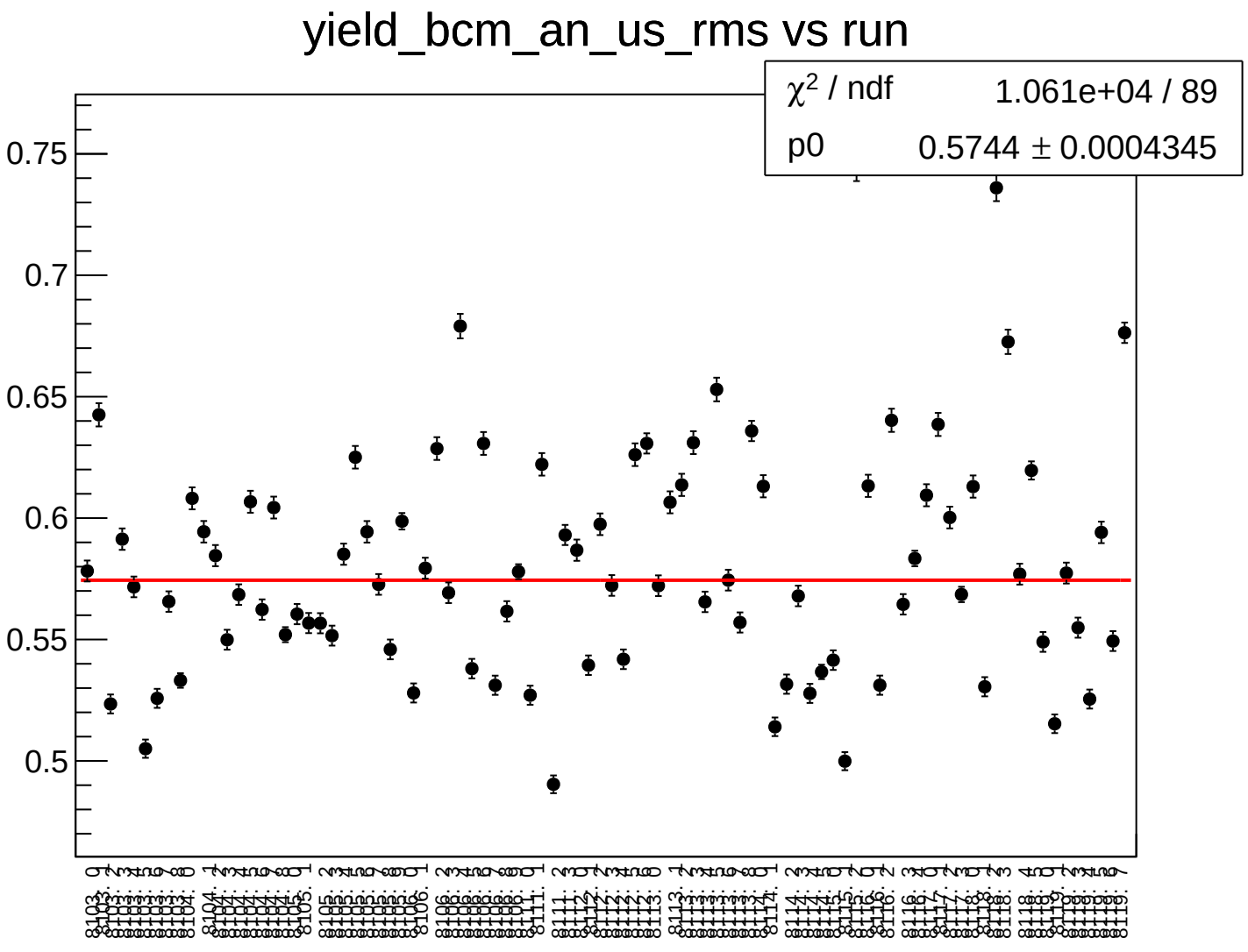

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.334e+05 / 89
p0 145.2 ± 0.0006147
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
pull
Entries 90
Mean 1299
Std Dev 0
150
100
50
0
−50
−100

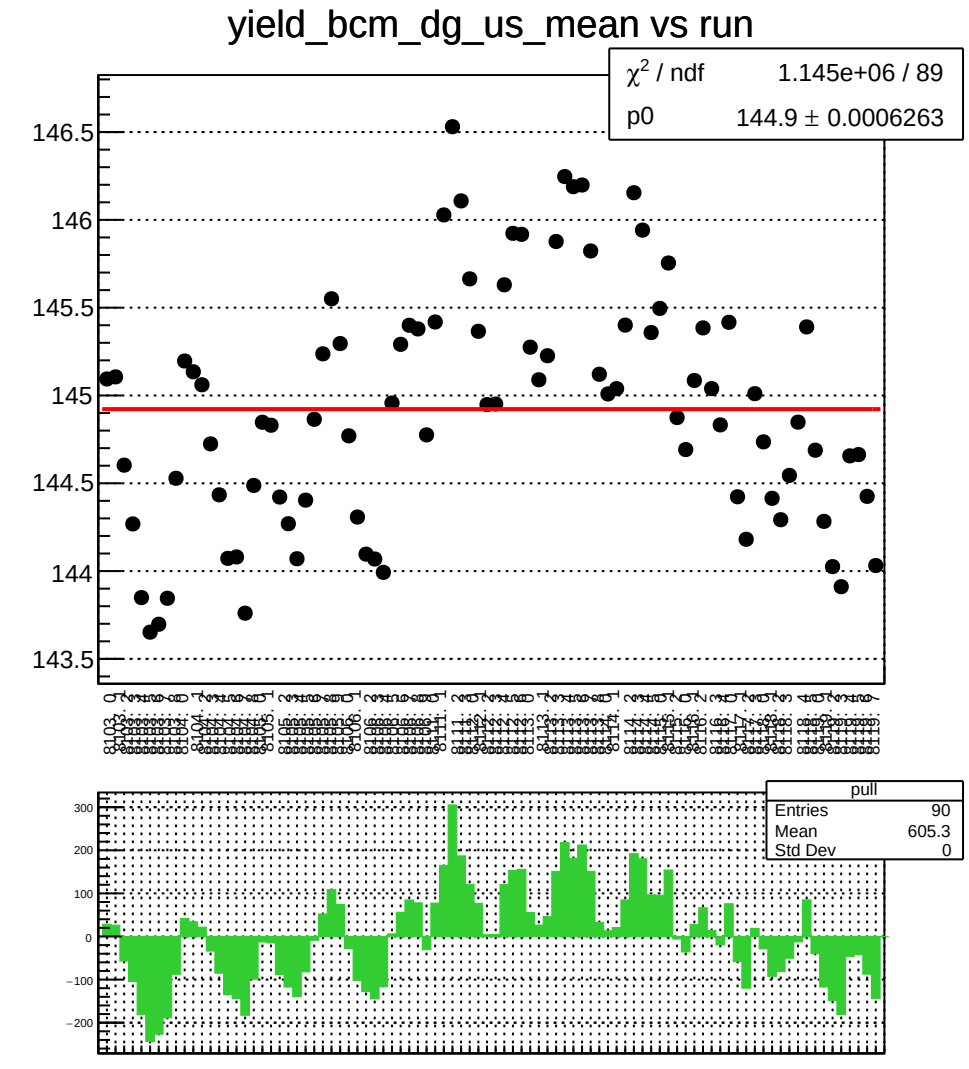

pull1D
Entries 90
Mean 1.921
Std Dev 2.113
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

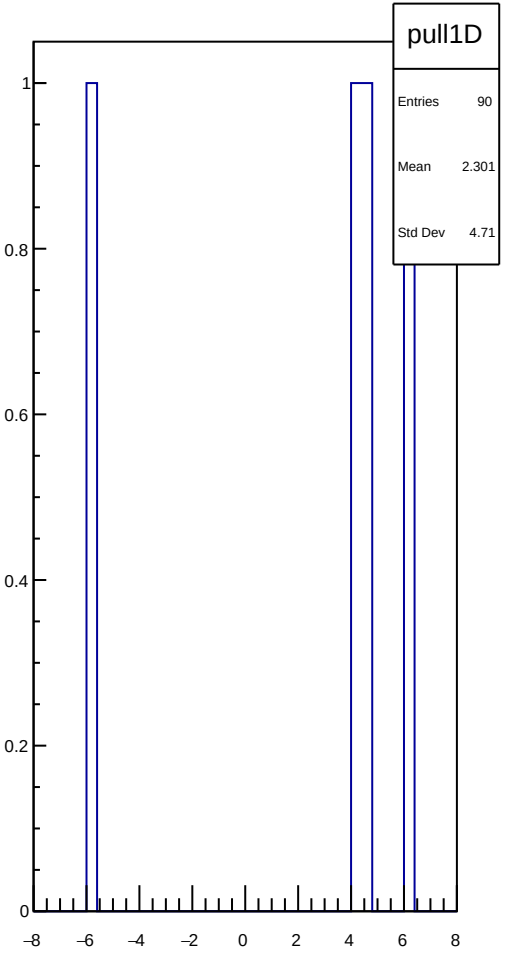

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.072e+04 / 89
p0 0.5747 ± 0.0004347
0.75
0.7
0.65
0.6
0.55
0.5

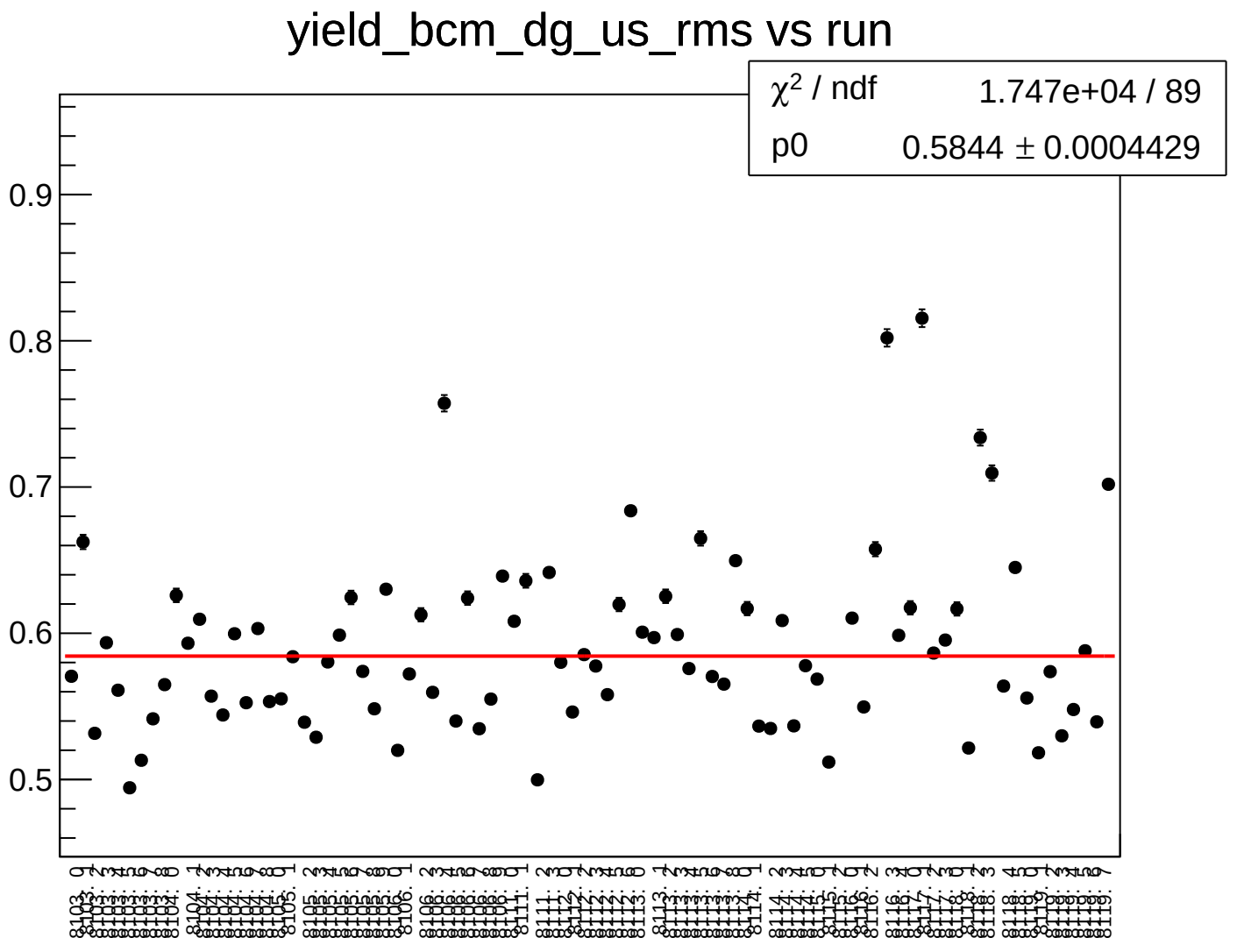

yield_bcm_an_us_mean vs run
χ² / ndf 6.561e+05 / 89
p0 144.9 ± 0.0006144
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 90
Mean 1235
Std Dev 0
150
100
50
0
−50
−100

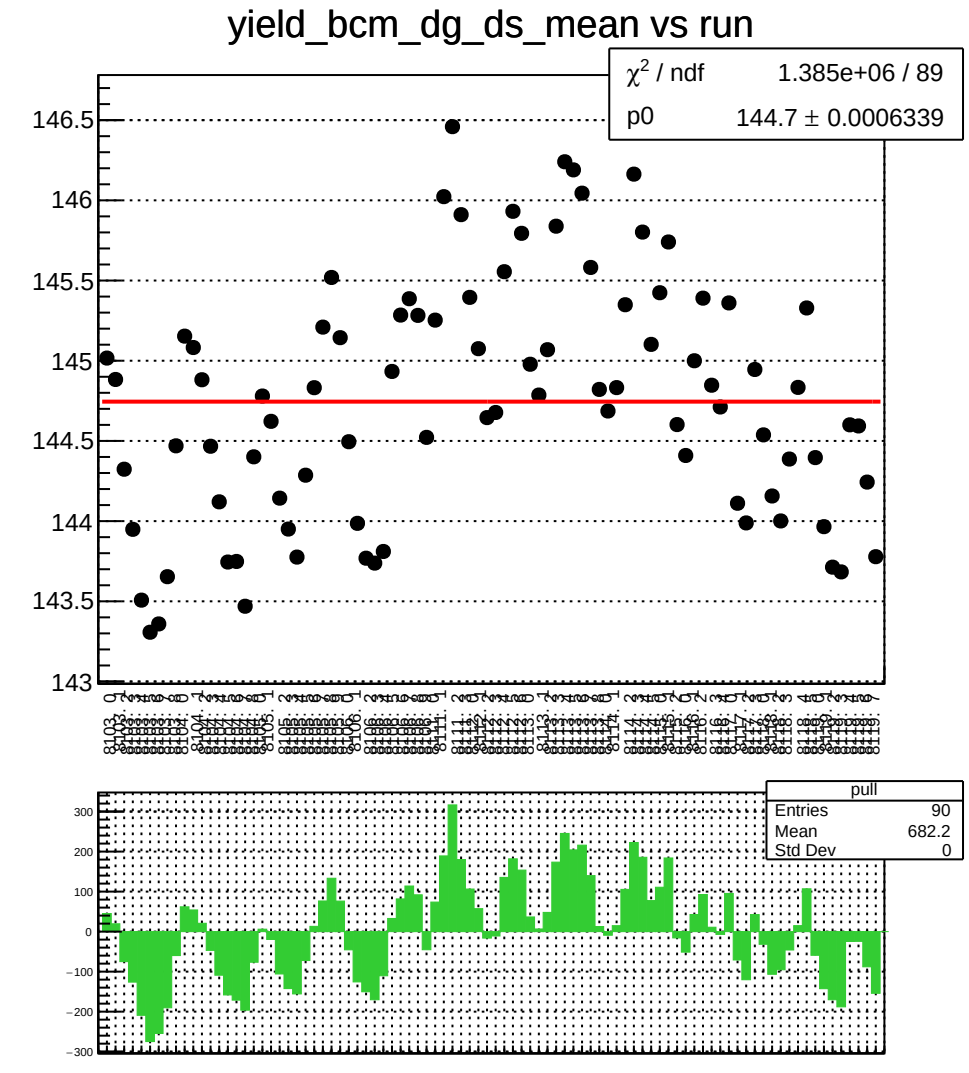

pull1D
Entries 90
Mean 2.694
Std Dev 4.16
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

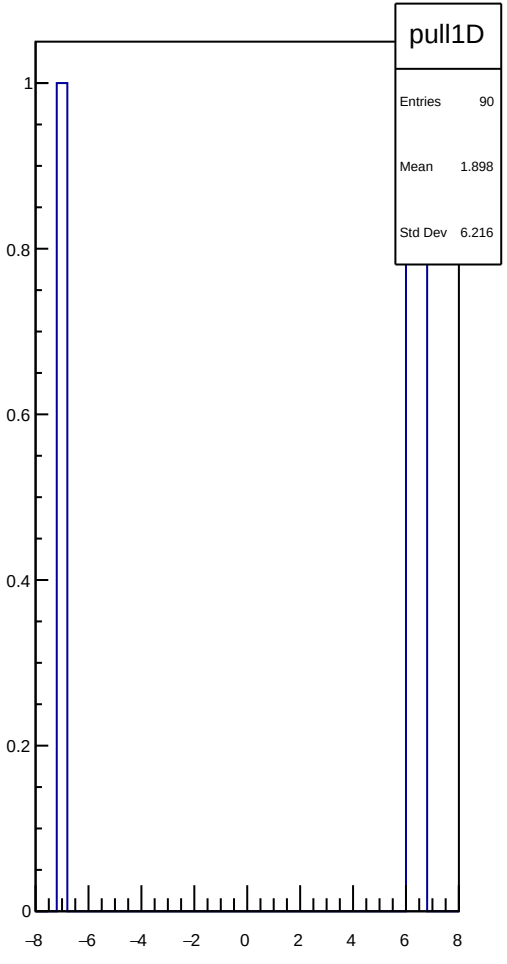

yield_bcm_an_us_rms vs run
χ² / ndf 1.061e+04 / 89
p0 0.5744 ± 0.0004345
0.75
0.7
0.65
0.6
0.55
0.5

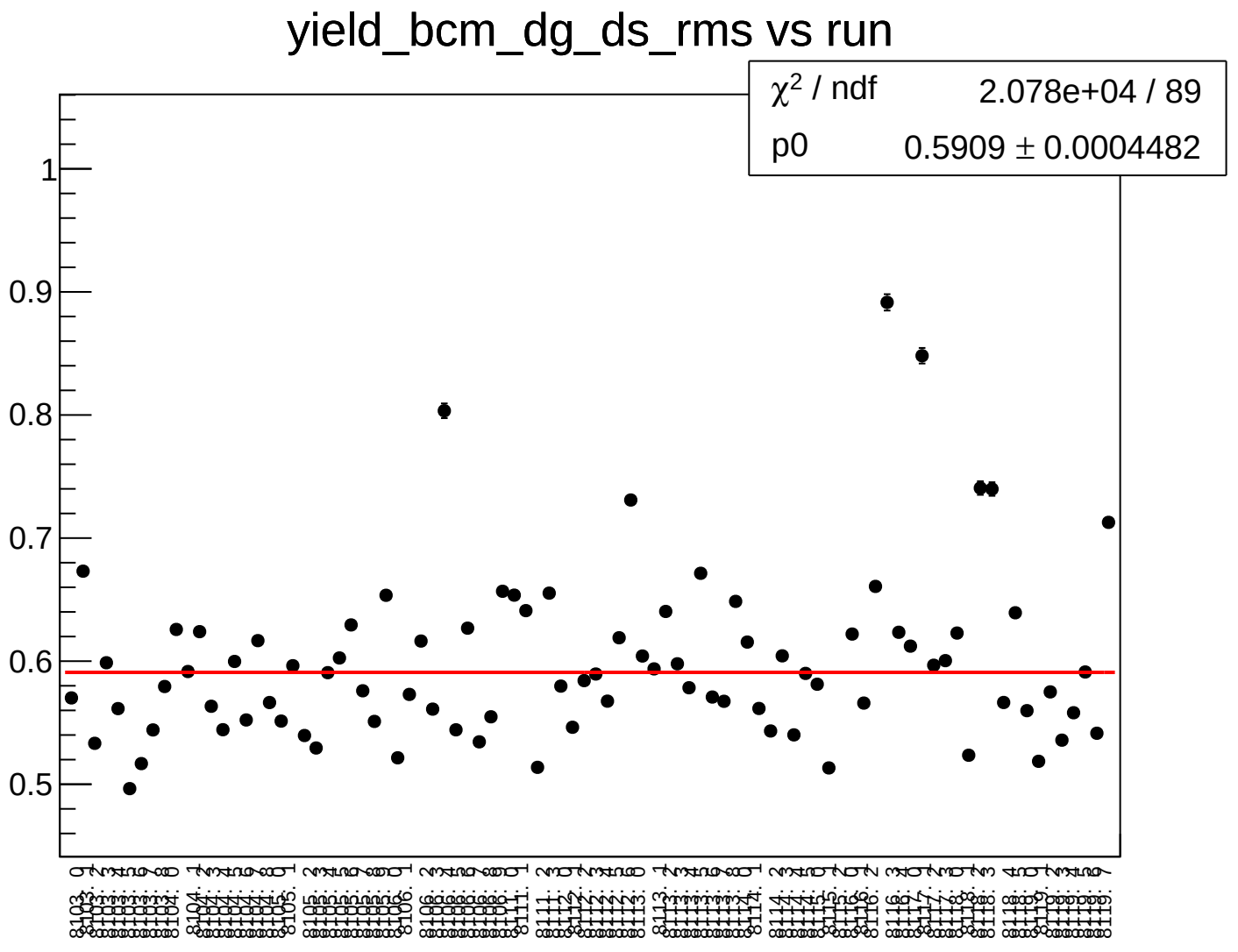

yield_bcm_dg_us_mean vs run
χ² / ndf 1.145e+06 / 89
p0 144.9 ± 0.0006263
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 90
Mean 605.3
Std Dev 0
300
200
100
0
−100
−200

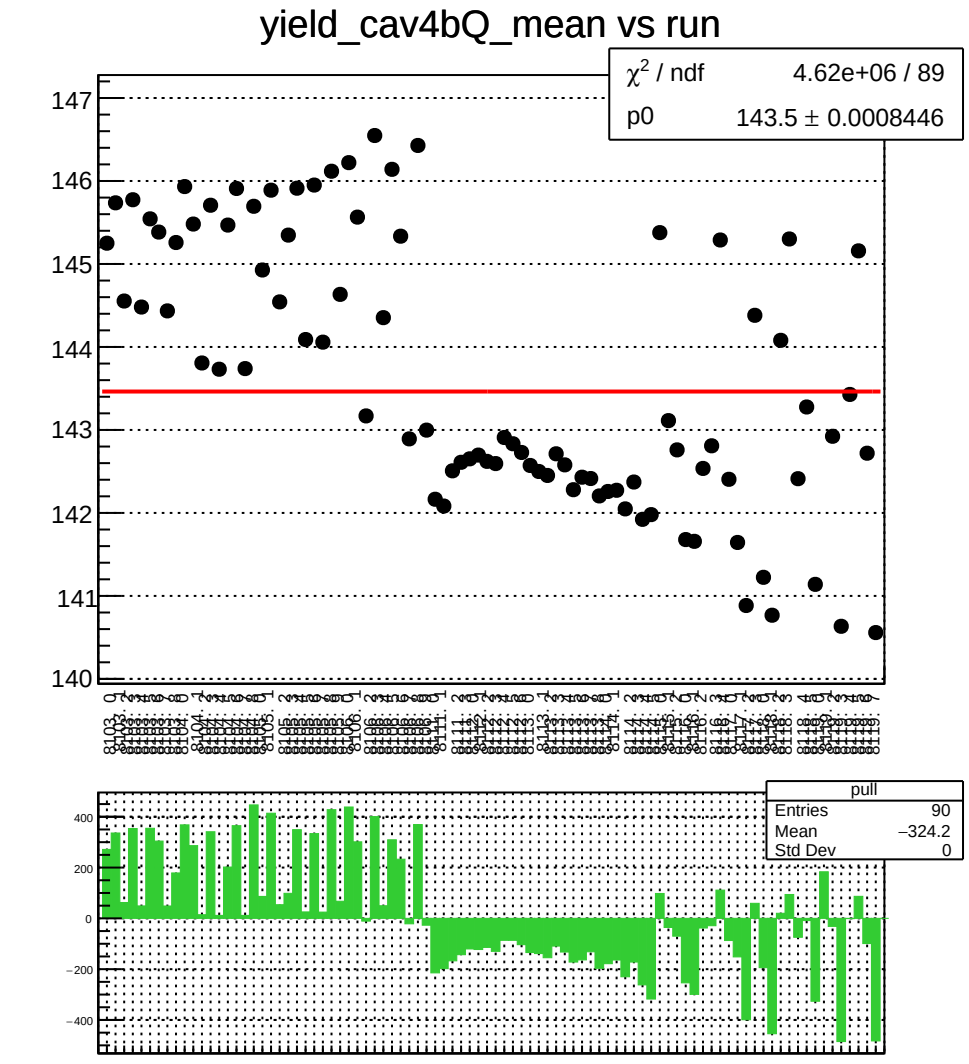

pull1D
Entries 90
Mean 2.301
Std Dev 4.71
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

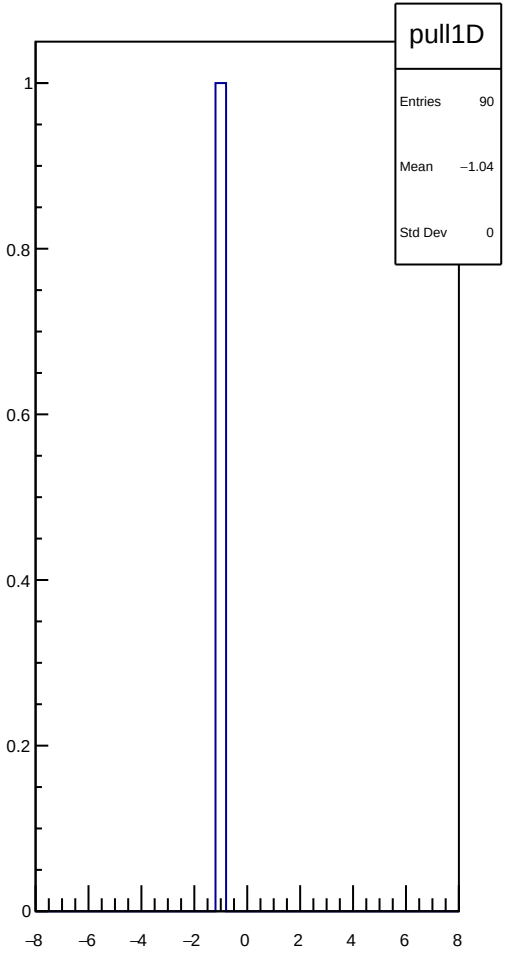

yield_bcm_dg_us_rms vs run
χ² / ndf 1.747e+04 / 89
p0 0.5844 ± 0.0004429
0.9
0.8
0.7
0.6
0.5

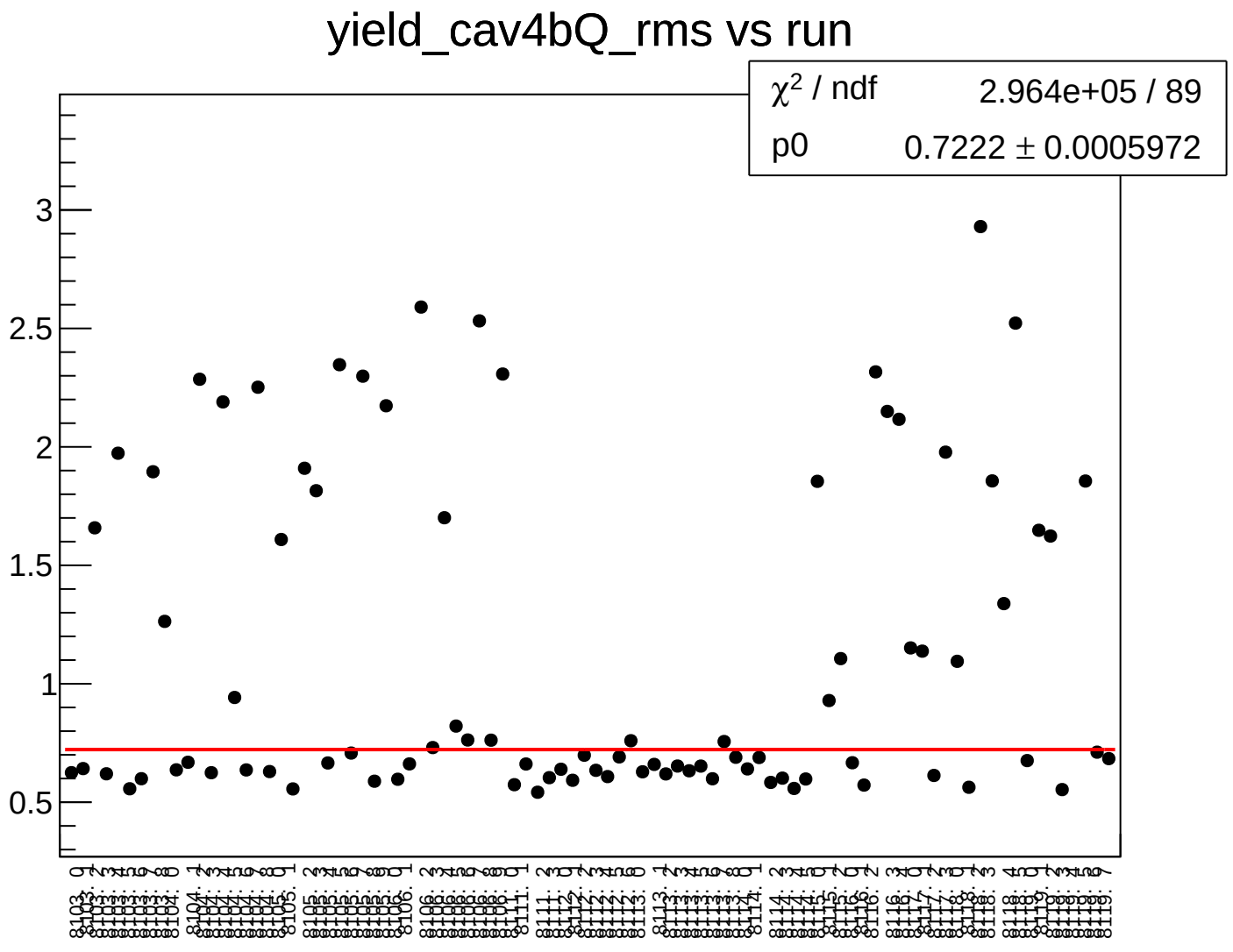

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.385e+06 / 89
p0 144.7 ± 0.0006339
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 90
Mean 682.2
Std Dev 0
300
200
100
0
−100
−200
−300

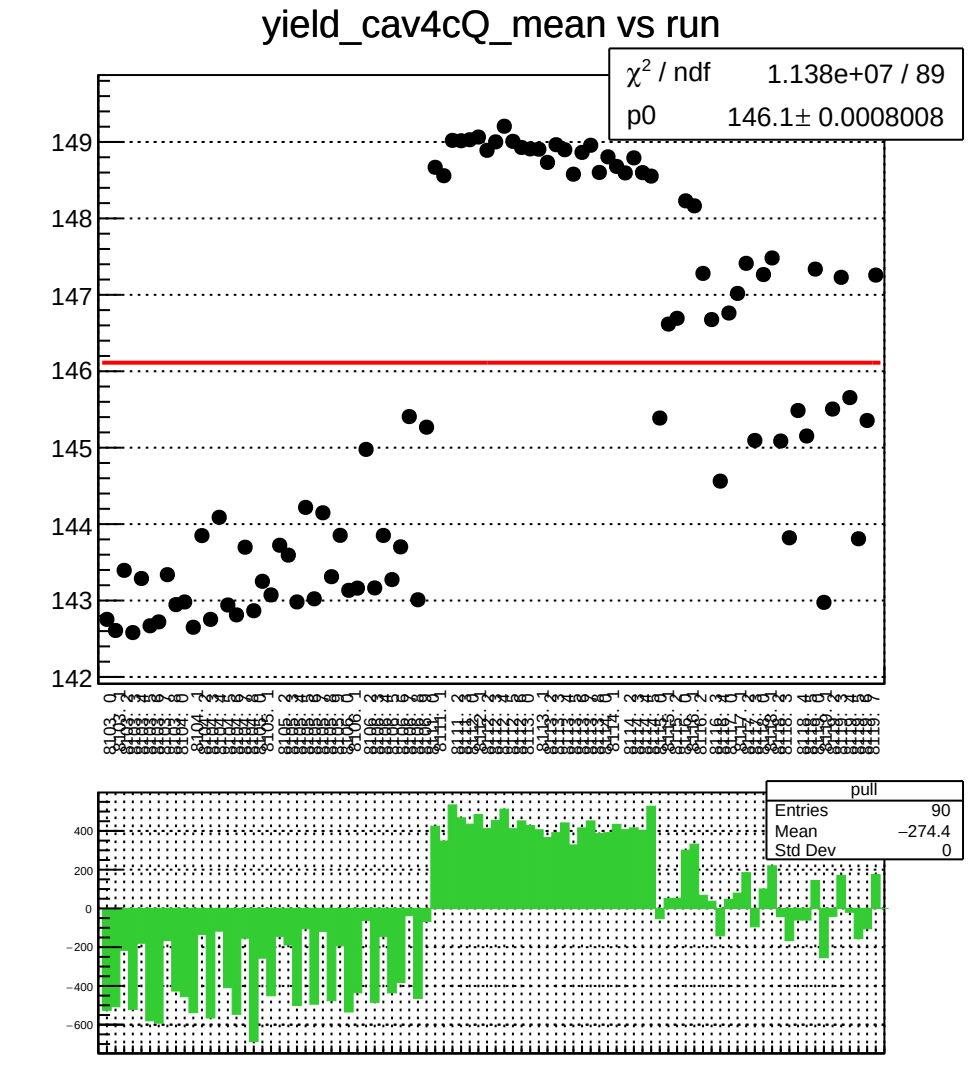

pull1D
Entries 90
Mean 1.898
Std Dev 6.216
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

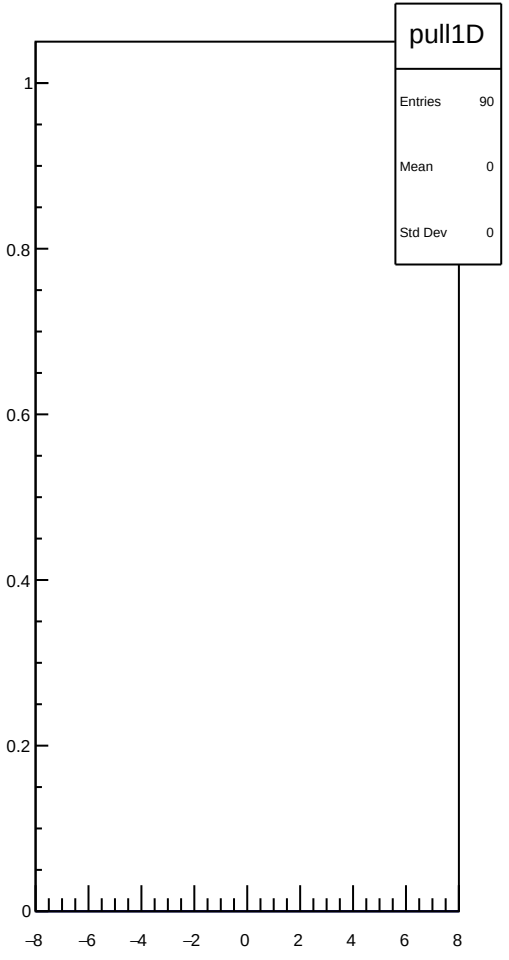

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.078e+04 / 89
p0 0.5909 ± 0.0004482
1
0.9
0.8
0.7
0.6
0.5

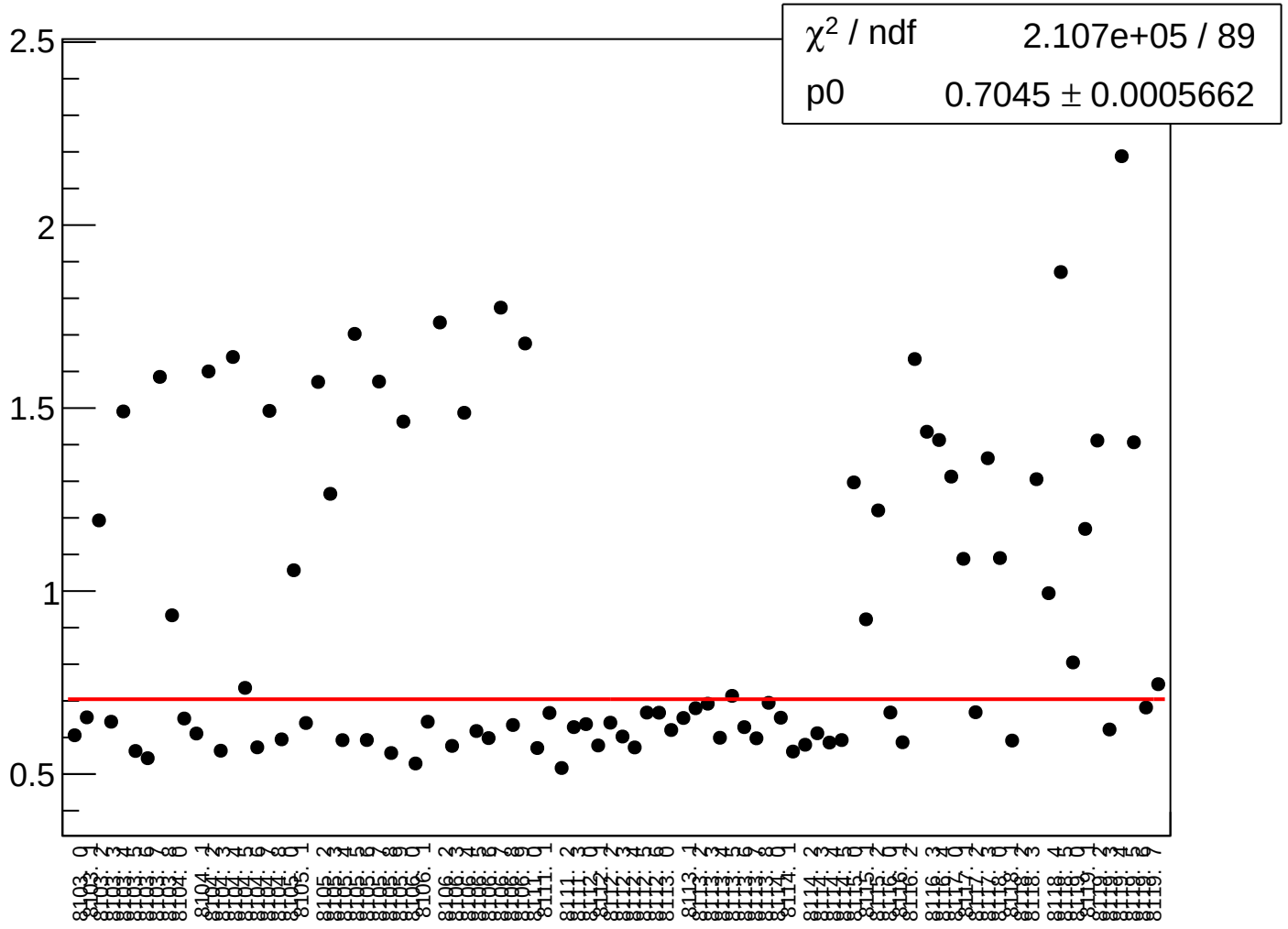

yield_cav4bQ_mean vs run
χ² / ndf 4.62e+06 / 89
p0 143.5 ± 0.0008446
147
146
145
144
143
142
141
140
pull
Entries 90
Mean −324.2
Std Dev 0
400
200
0
−200
−400

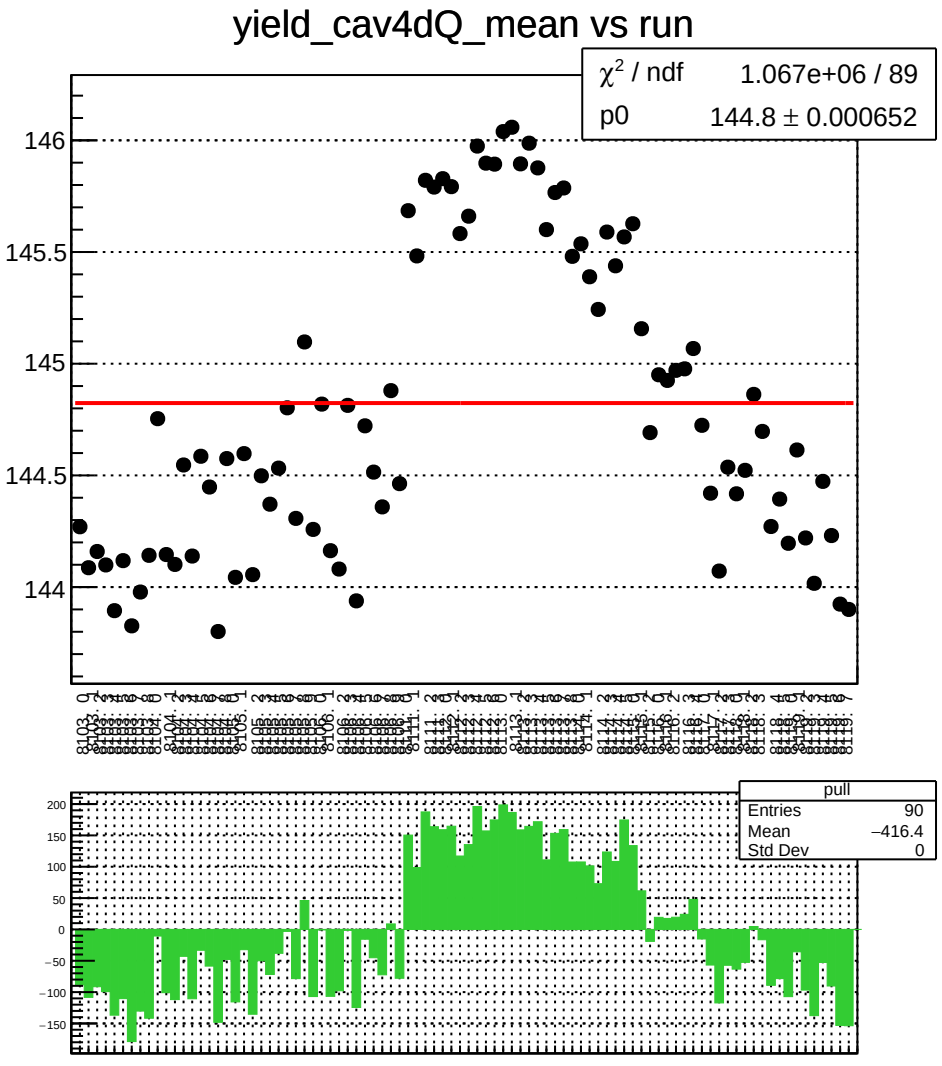

pull1D
Entries 90
Mean −1.04
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

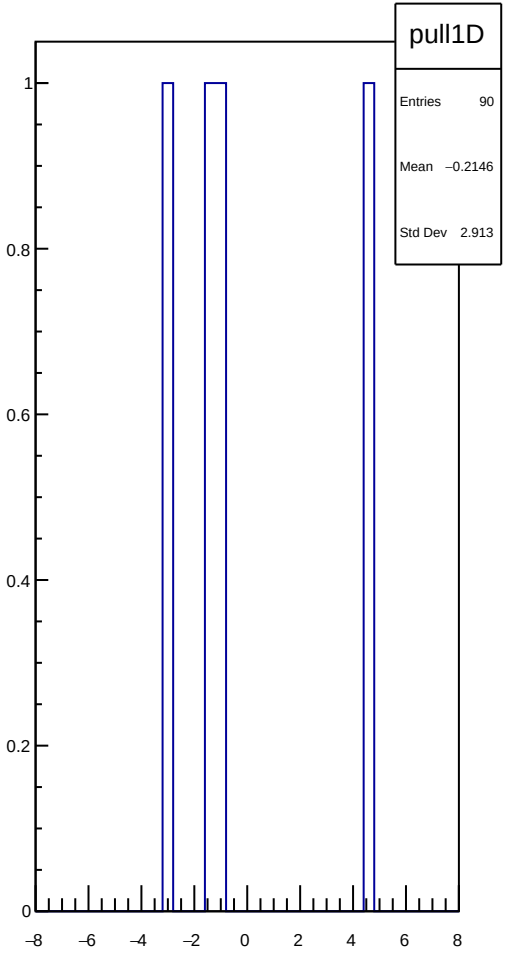

yield_cav4bQ_rms vs run
χ² / ndf 2.964e+05 / 89
p0 0.7222 ± 0.0005972
3
2.5
2
1.5
1
0.5

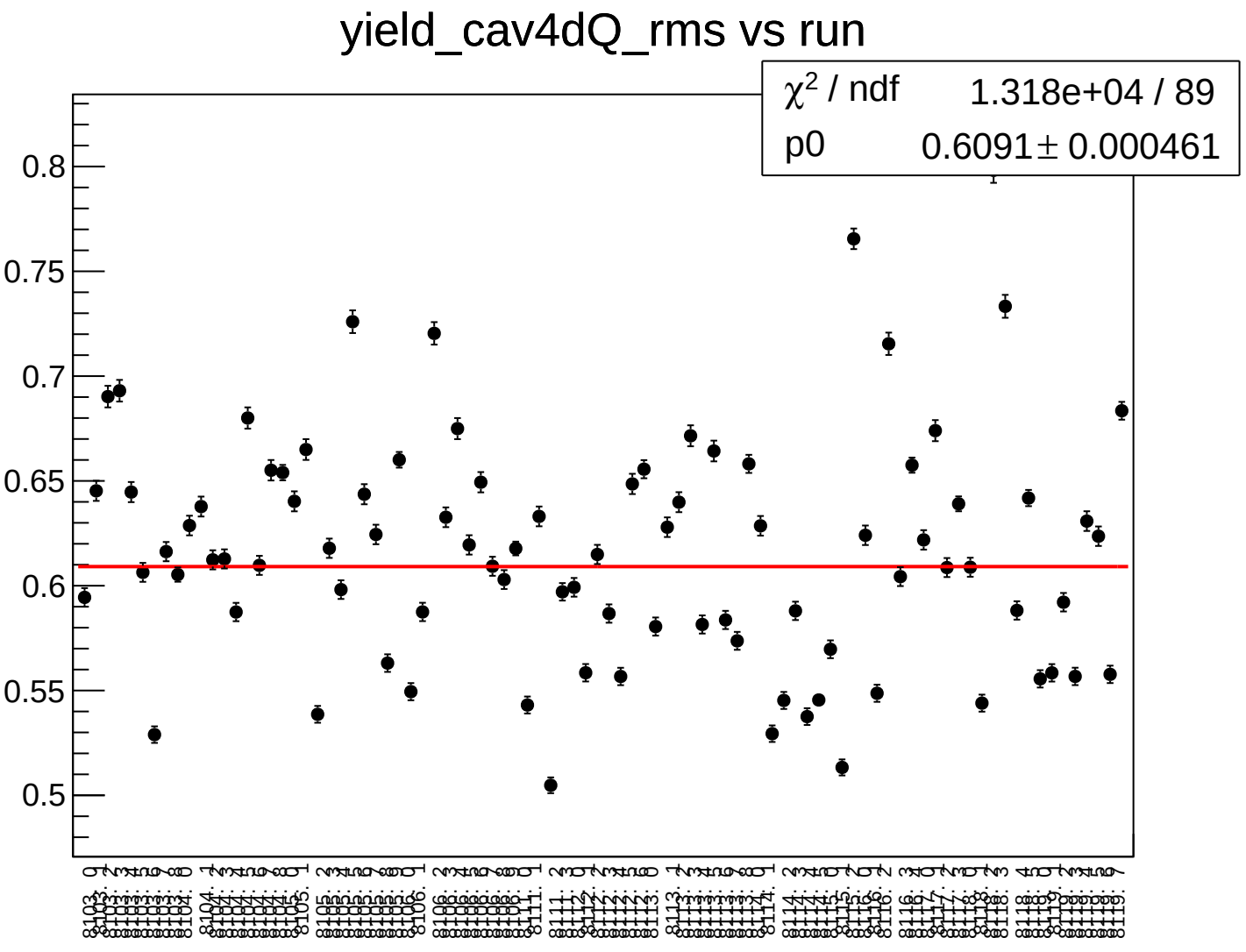

yield_cav4cQ_mean vs run
χ² / ndf 1.138e+07 / 89
p0 146.1± 0.0008008
149
148
147
146
145
144
143
142
pull
Entries 90
Mean −274.4
Std Dev 0
400
200
0
−200
−400
−600

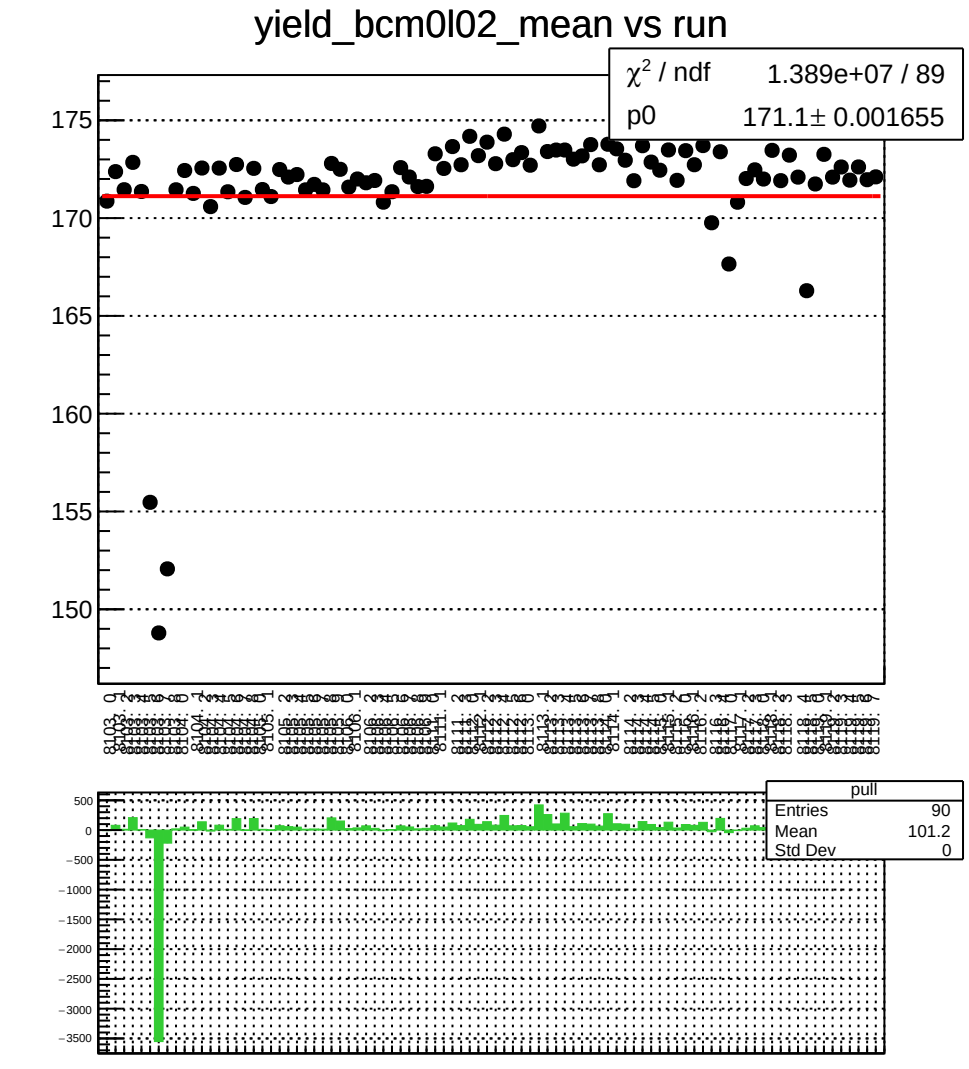

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

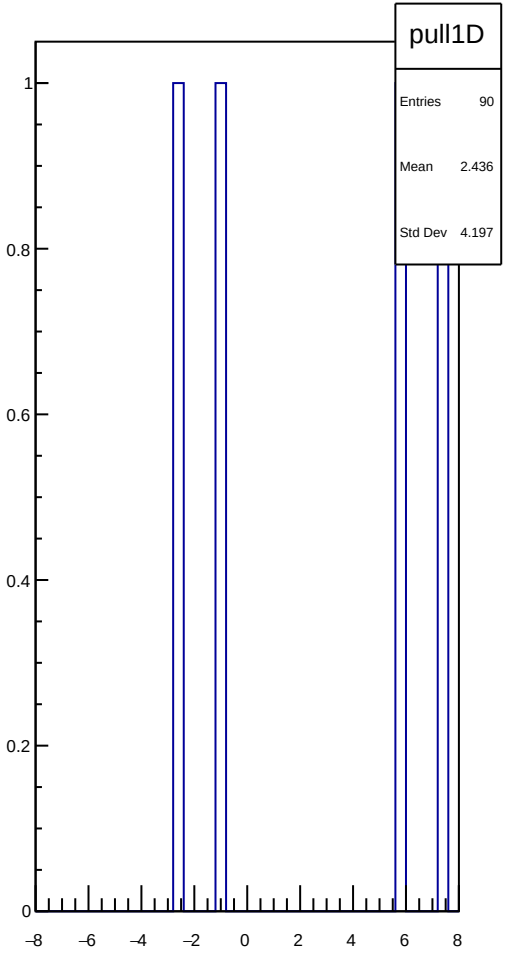

yield_cav4cQ_rms vs run
χ² / ndf 2.107e+05 / 89
p0 0.7045 ± 0.0005662
2.5
2
1.5
1
0.5


yield_cav4dQ_mean vs run
χ² / ndf 1.067e+06 / 89
p0 144.8 ± 0.000652
146
145.5
145
144.5
144
pull
Entries 90
Mean −416.4
Std Dev 0
200
150
100
50
0
−50
−100
−150

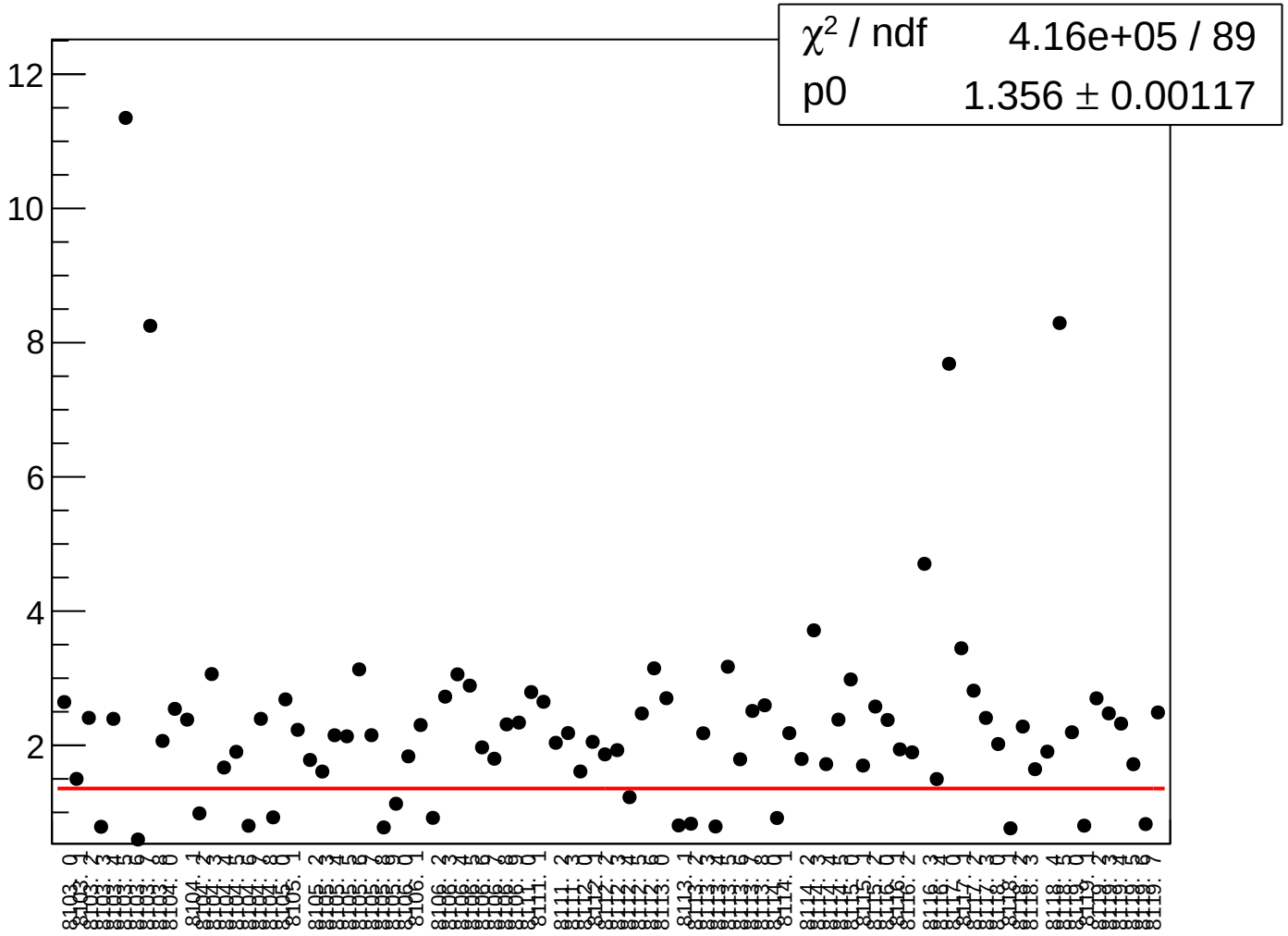

pull1D
Entries 90
Mean −0.2146
Std Dev 2.913
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

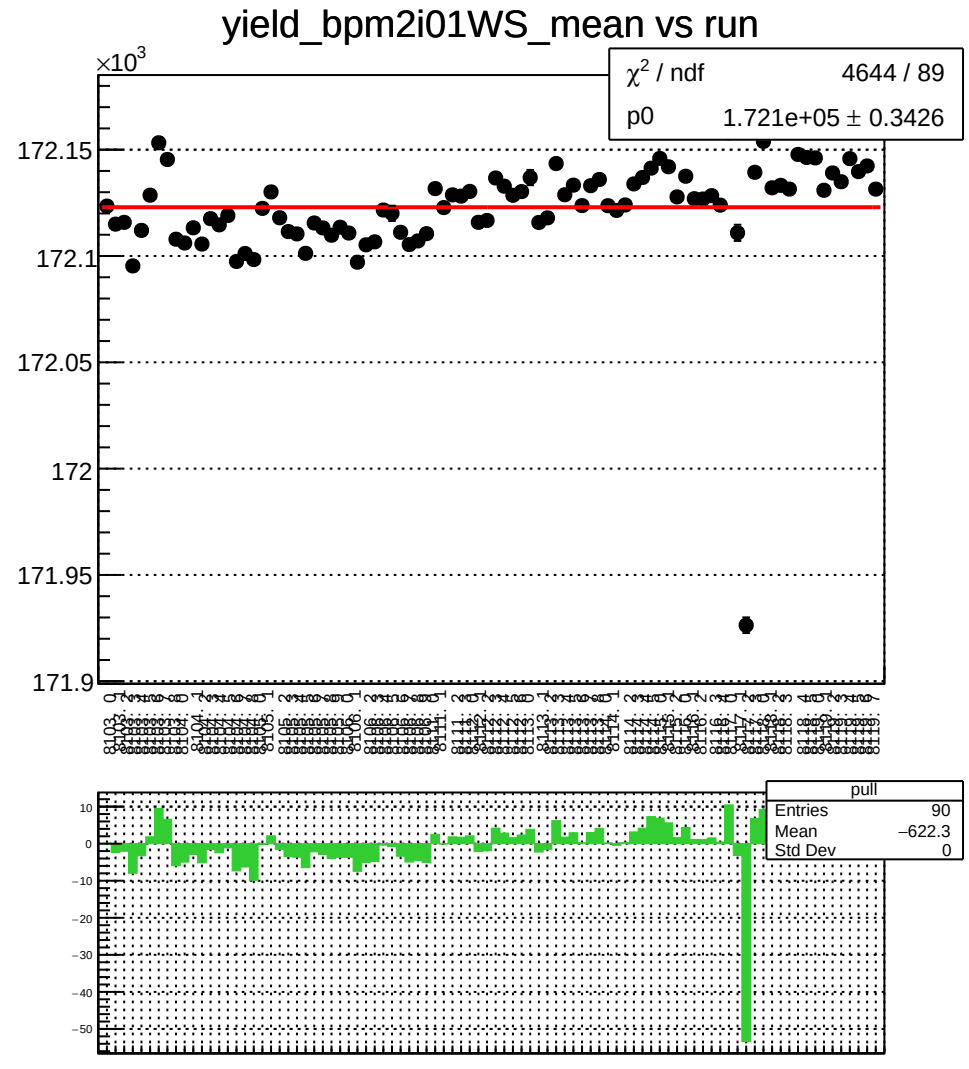

yield_cav4dQ_rms vs run
χ² / ndf 1.318e+04 / 89
p0 0.6091 ± 0.000461
0.8
0.75
0.7
0.65
0.6
0.55
0.5

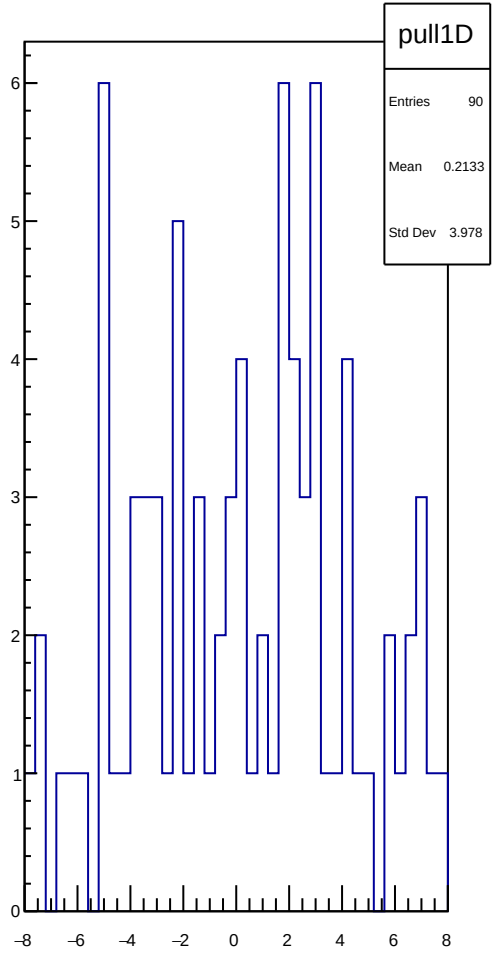

yield_bcm0l02_mean vs run
χ² / ndf 1.389e+07 / 89
p0 171.1± 0.001655
175
170
165
160
155
150
pull
Entries 90
Mean 101.2
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

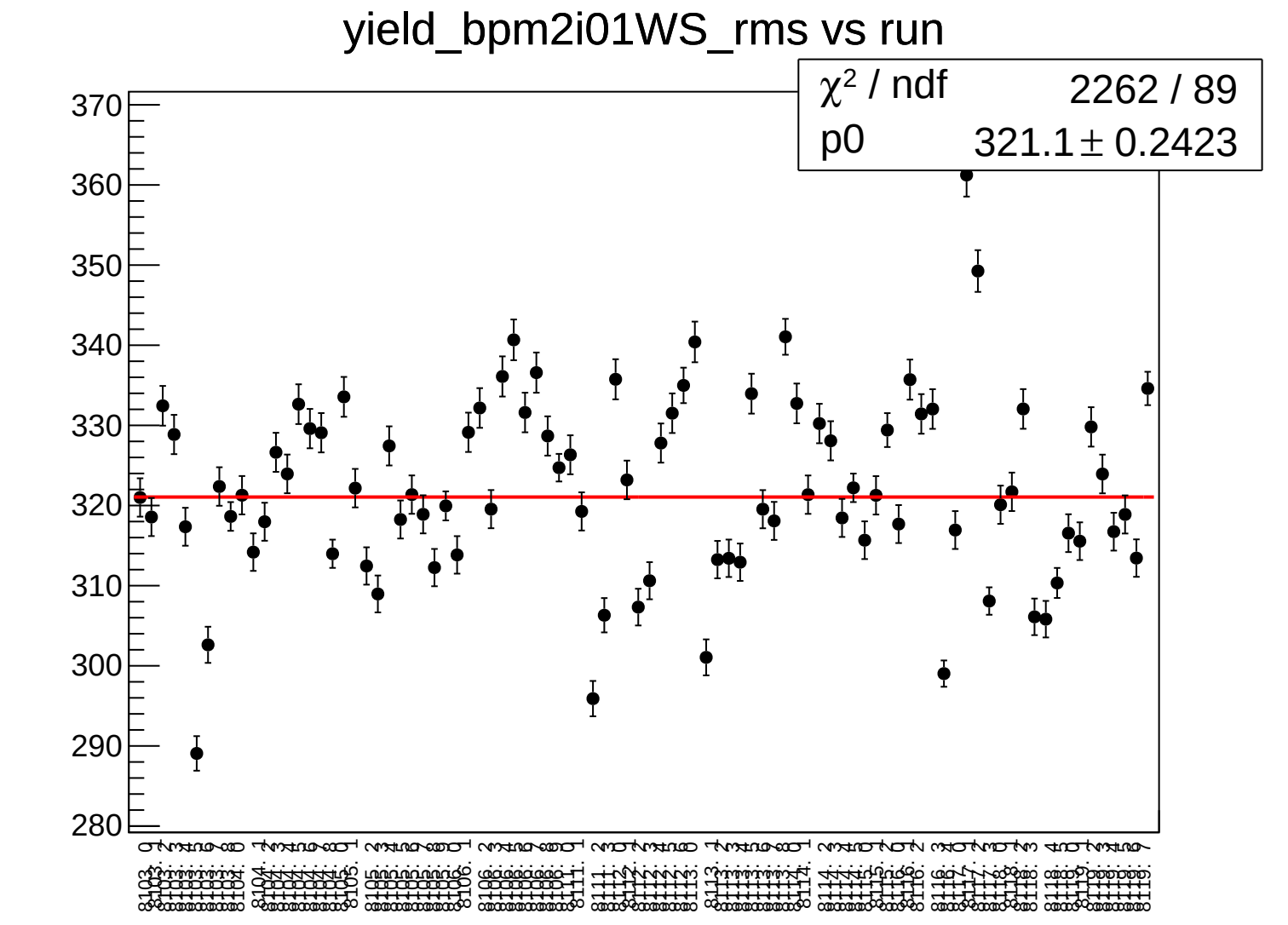

pull1D
Entries 90
Mean 2.436
Std Dev 4.197
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

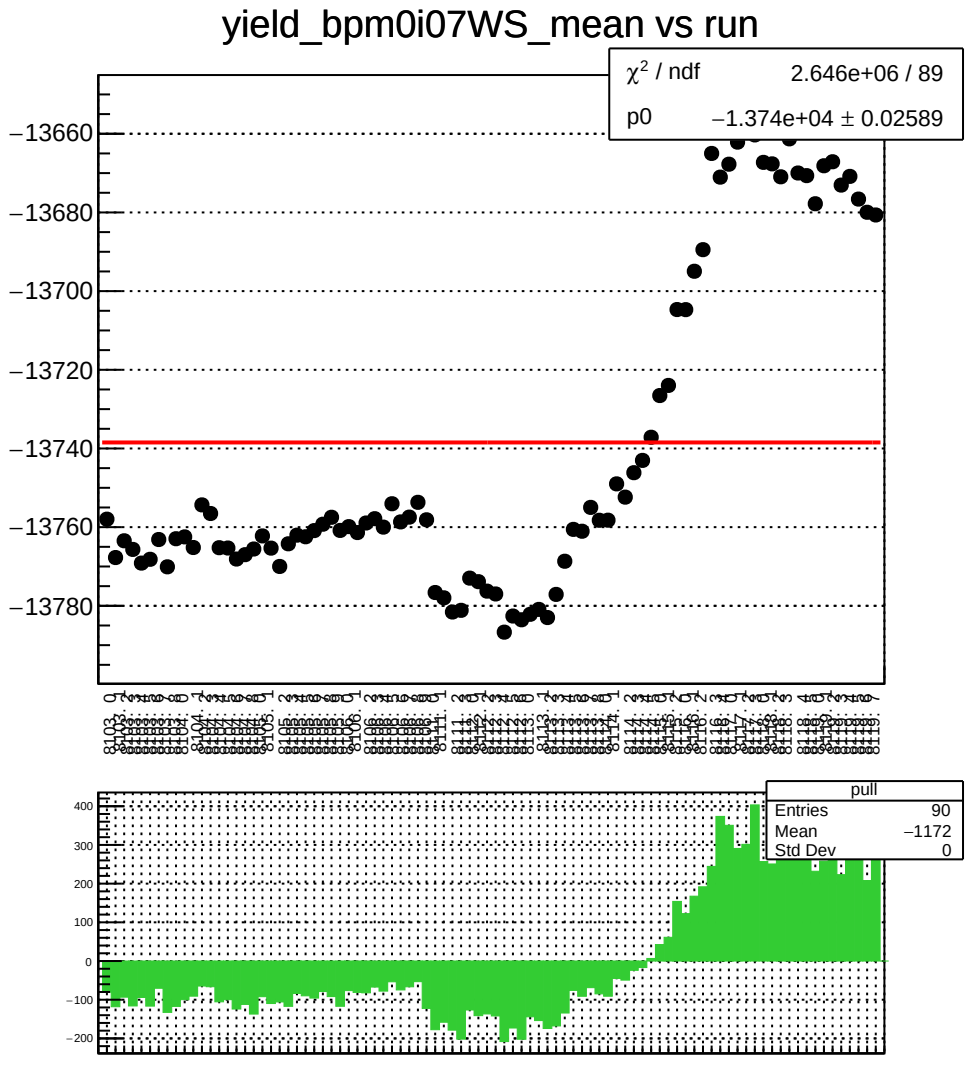
yield_bcm0l02_rms vs run

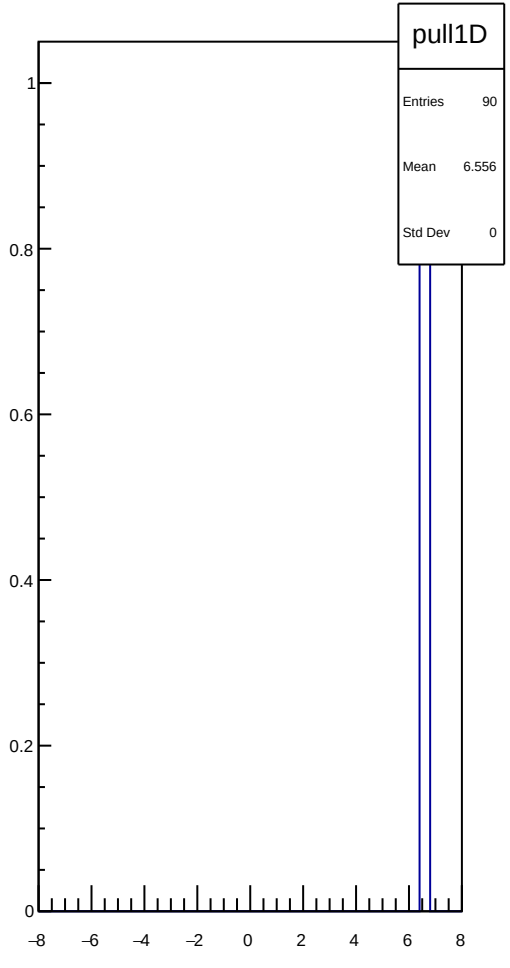


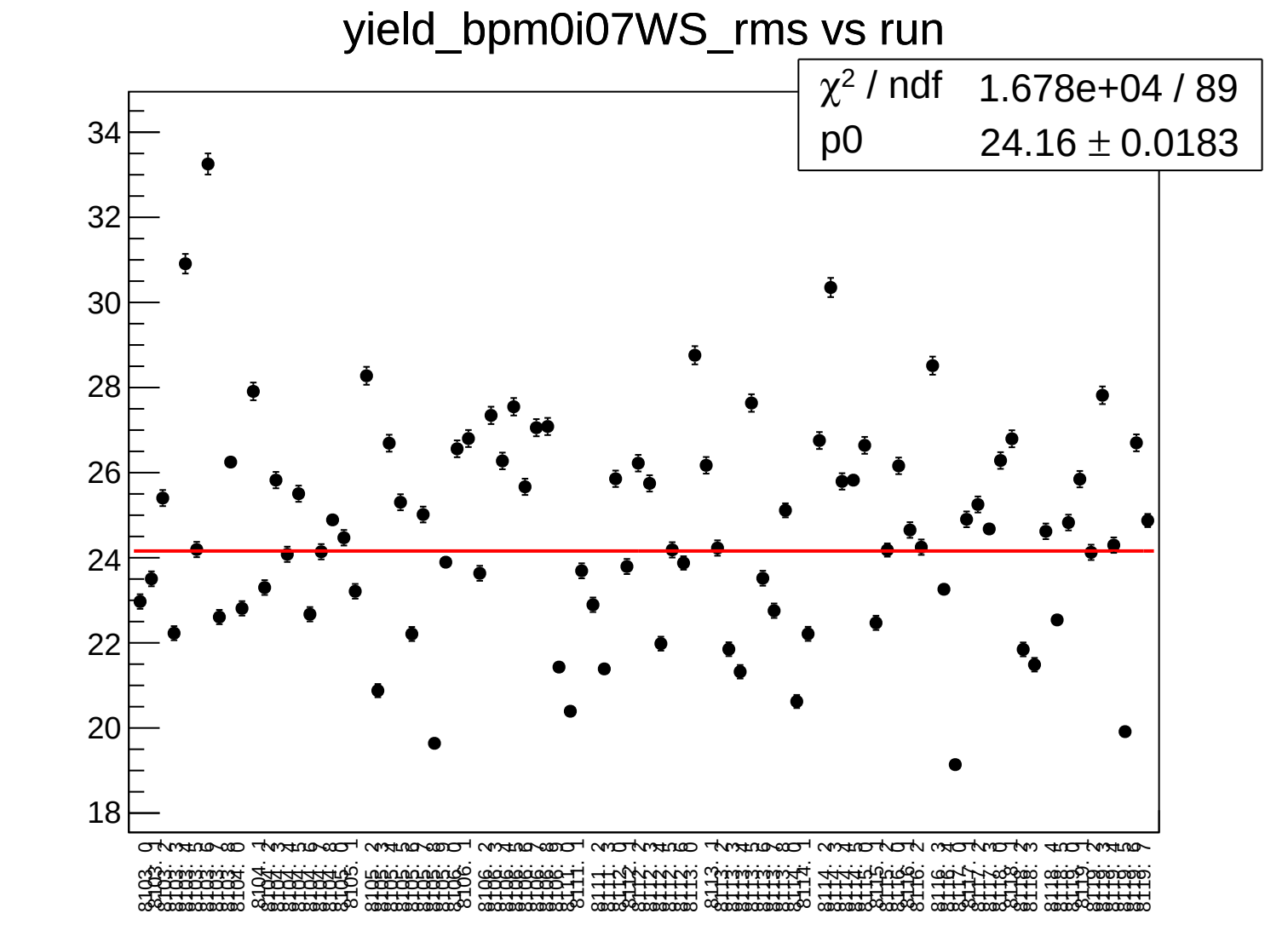

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4644 / 89
p0 1.721e+05 ± 0.3426
172.15
172.1
172.05
172
171.95
171.9
pull
Entries 90
Mean −622.3
Std Dev 0
10
0
−10
−20
−30
−40
−50

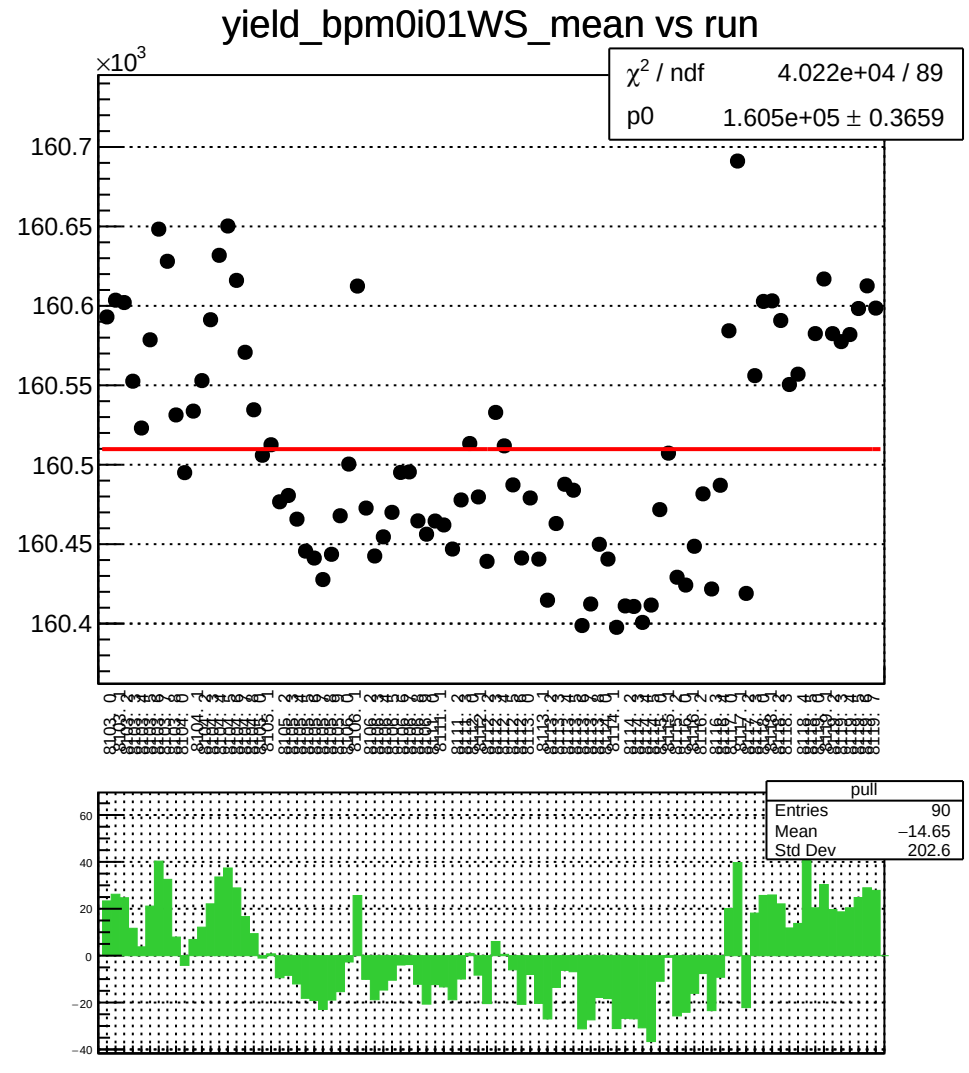

pull1D
Entries 90
Mean 0.2133
Std Dev 3.978
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

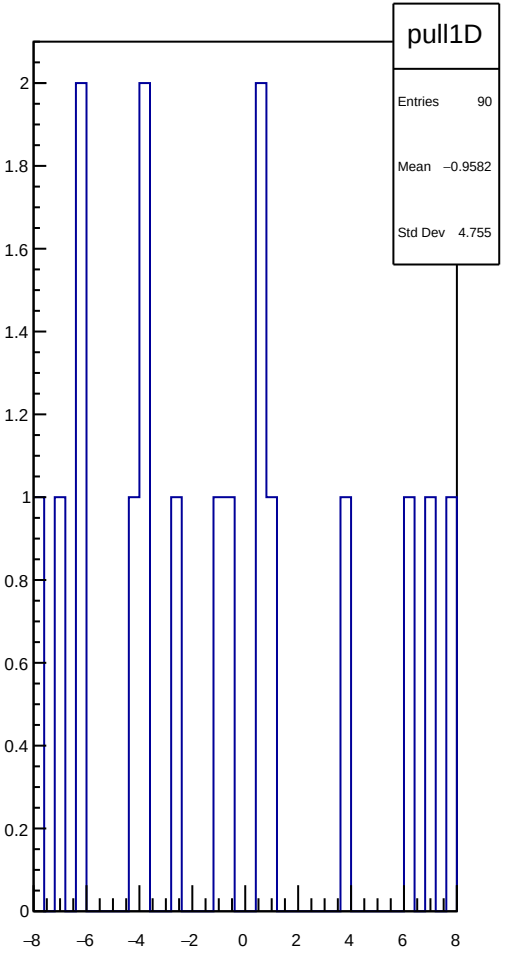

yield_bpm2i01WS_rms vs run
χ² / ndf 2262 / 89
p0 321.1 ± 0.2423
370
360
350
340
330
320
310
300
290
280

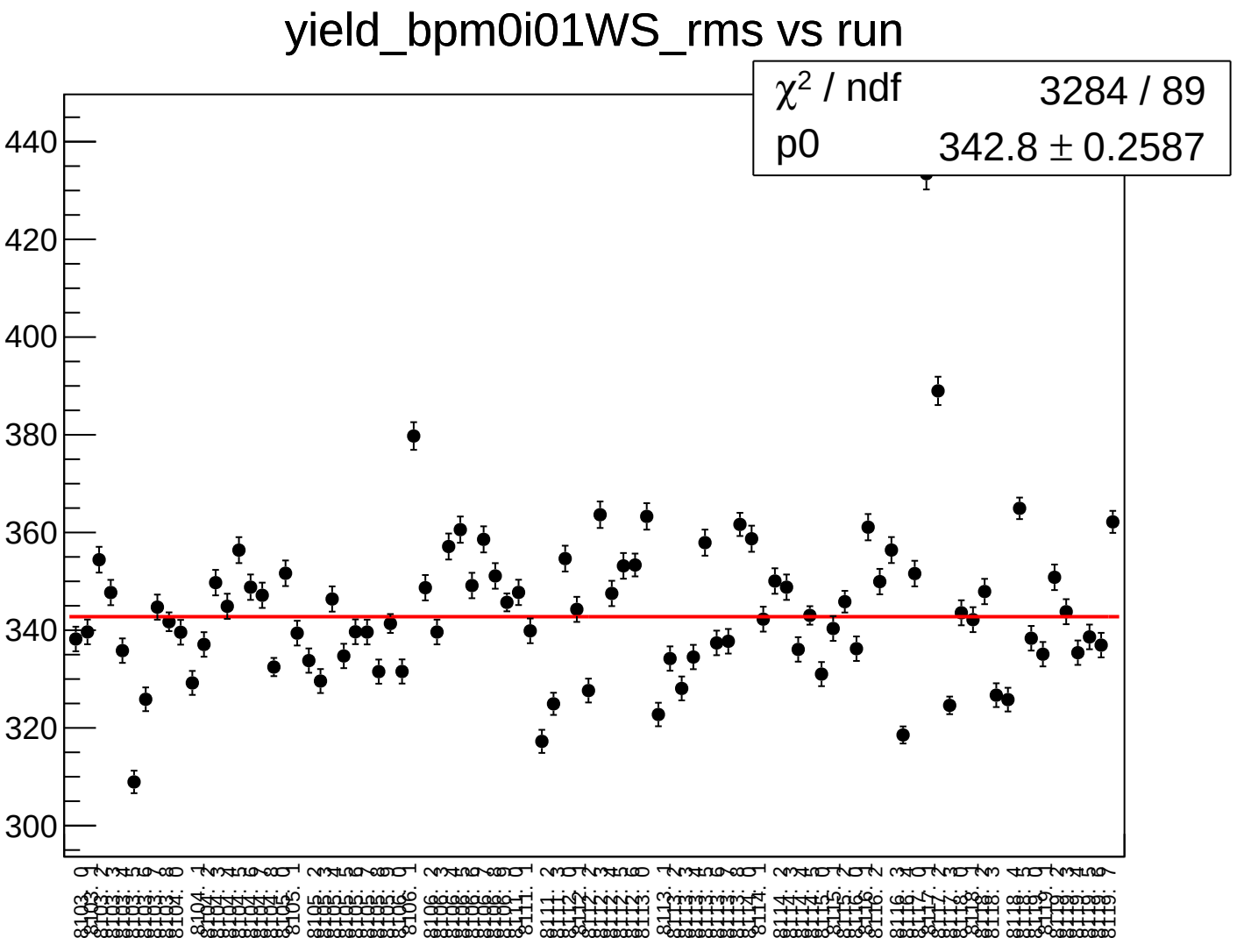

yield_bpm0i07WS_mean vs run
χ² / ndf 2.646e+06 / 89
p0 −1.374e+04 ± 0.02589
−13660
−13680
−13700
−13720
−13740
−13760
−13780
pull
Entries 90
Mean −1172
Std Dev 0
400
300
200
100
0
−100
−200

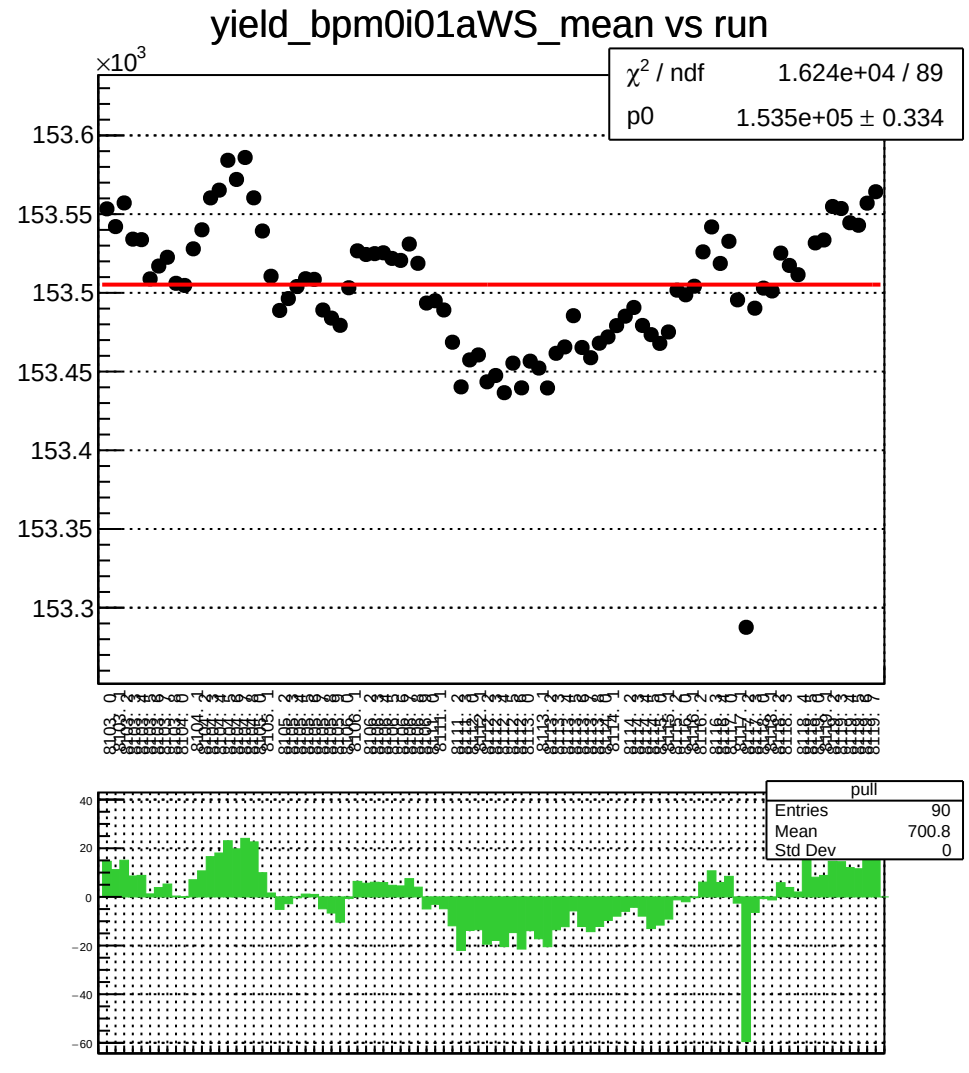

pull1D
Entries 90
Mean 6.556
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

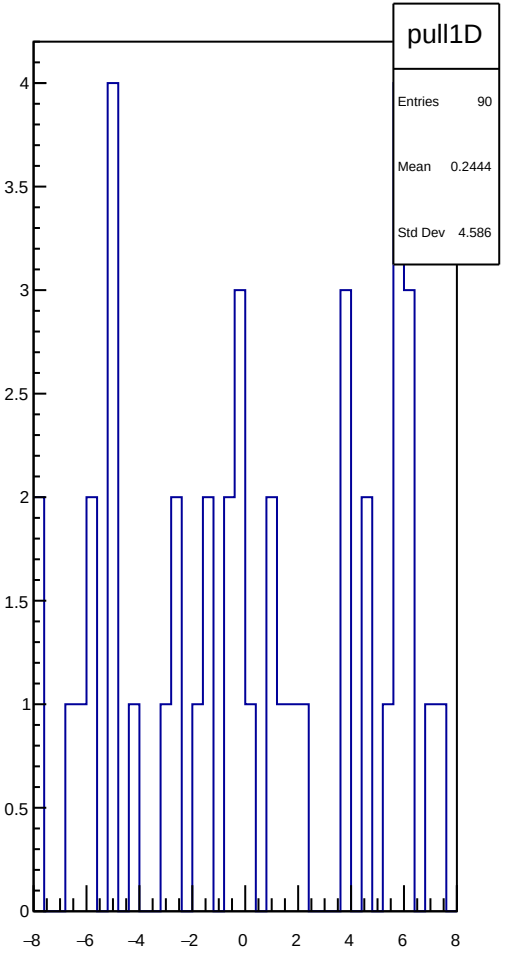

yield_bpm0i07WS_rms vs run
χ² / ndf 1.678e+04 / 89
p0 24.16 ± 0.0183
34
32
30
28
26
24
22
20
18

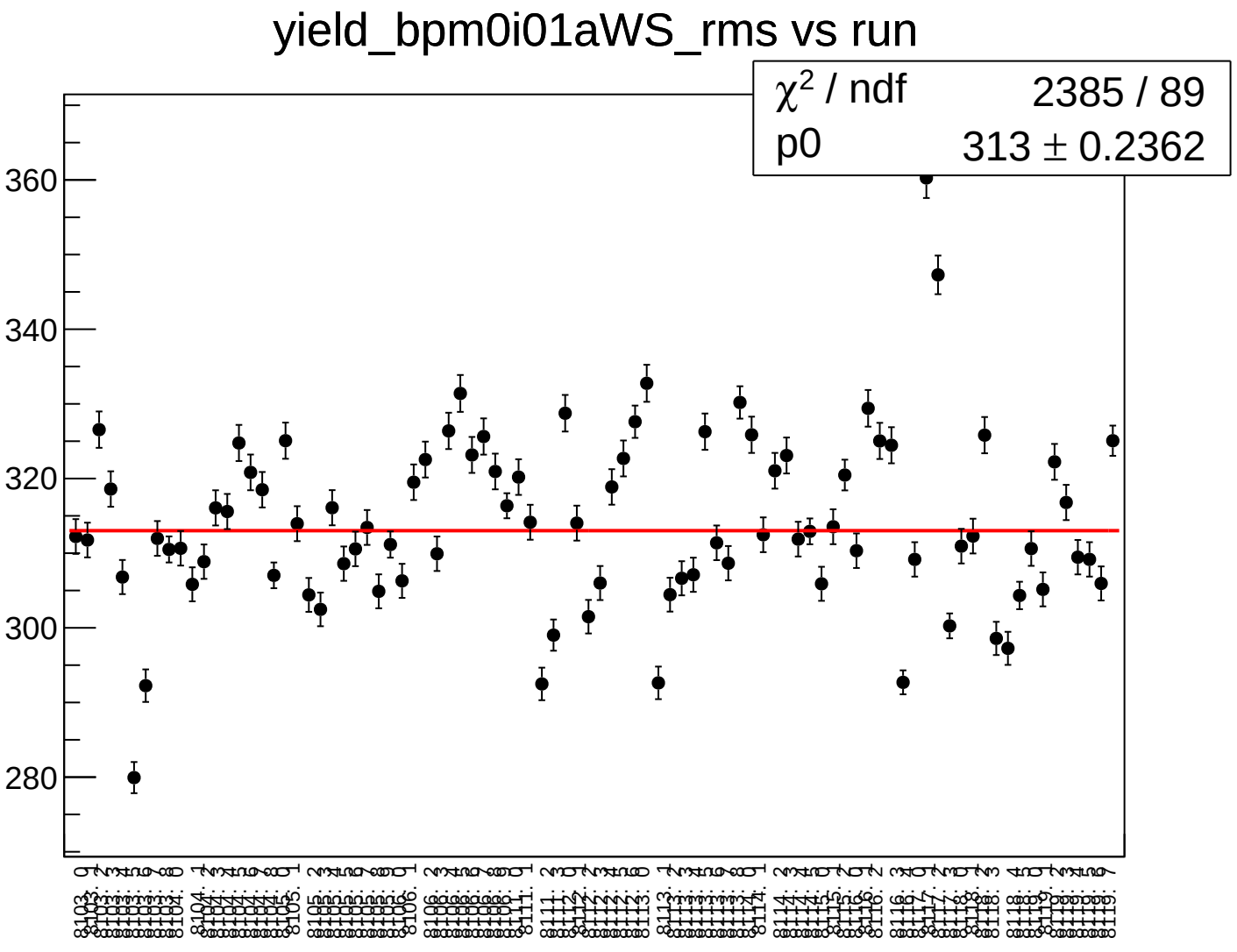

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 4.022e+04 / 89
p0 1.605e+05 ± 0.3659
160.7
160.65
160.6
160.55
160.5
160.45
160.4
pull
Entries 90
Mean −14.65
Std Dev 202.6
60
40
20
0
−20
−40

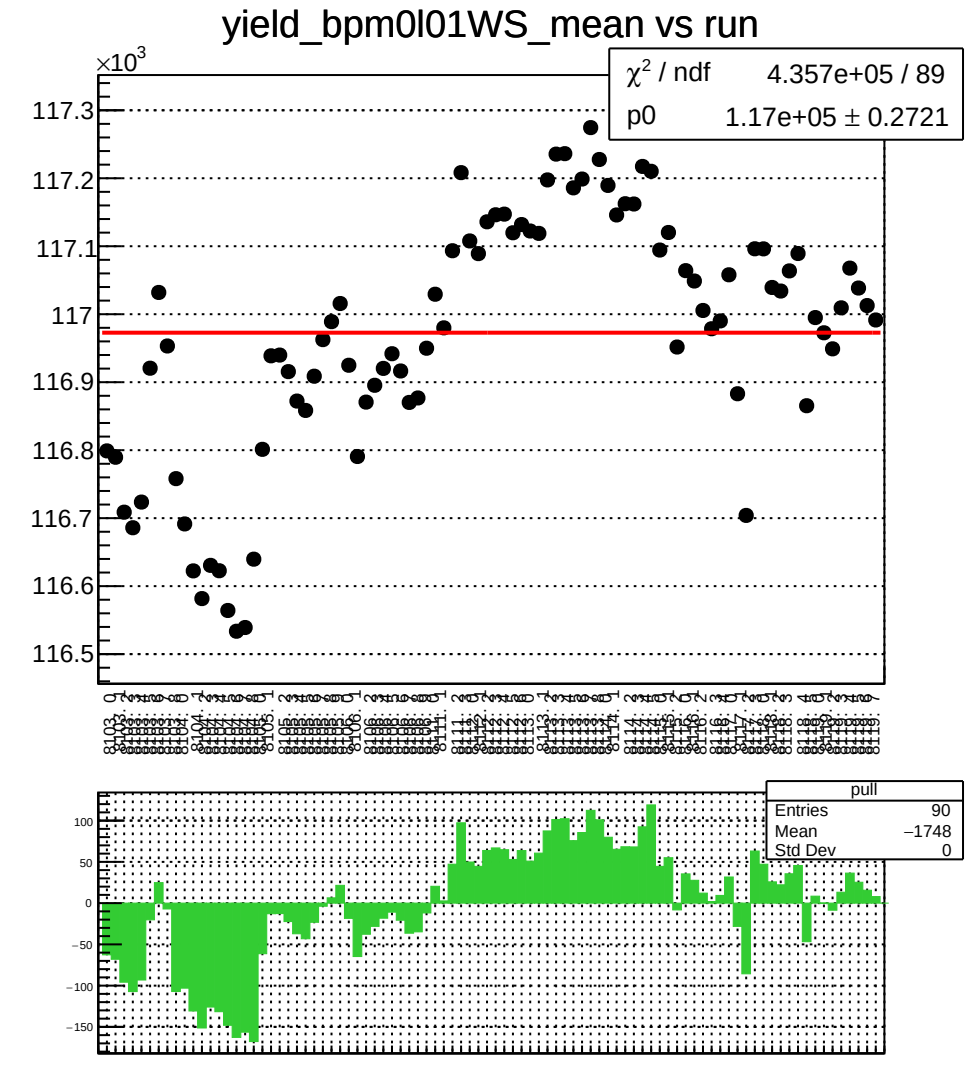

pull1D
Entries 90
Mean −0.9582
Std Dev 4.755
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

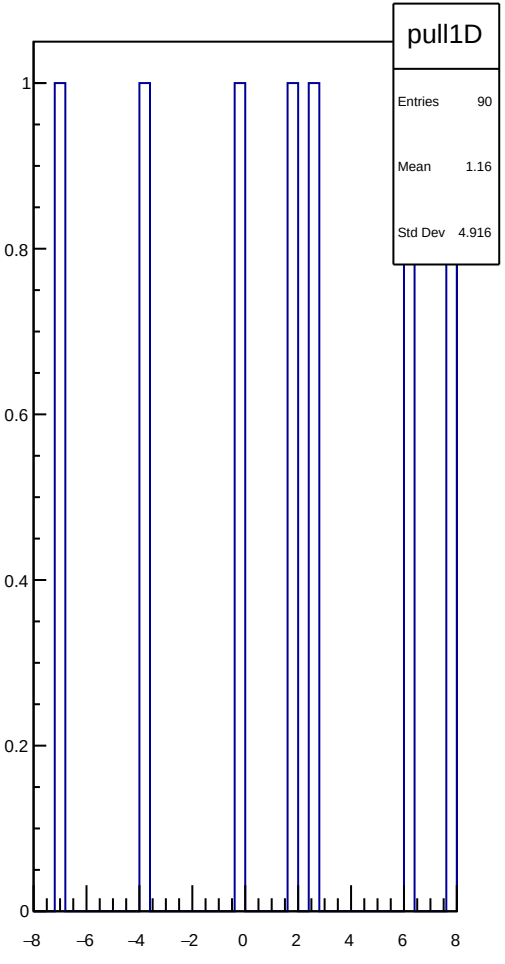

yield_bpm0i01WS_rms vs run
χ² / ndf 3284 / 89
p0 342.8 ± 0.2587
440
420
400
380
360
340
320
300

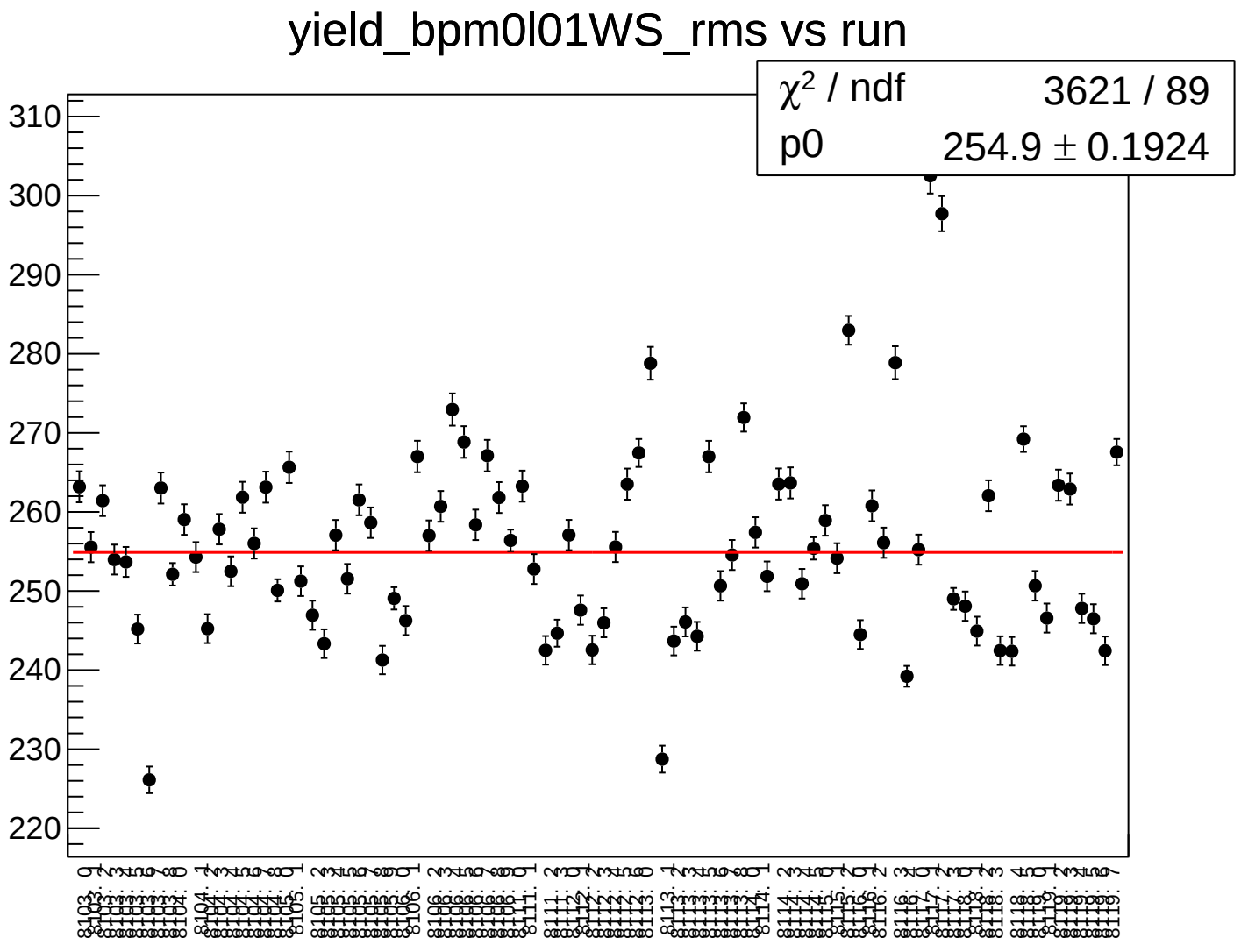

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 1.624e+04 / 89
p0 1.535e+05 ± 0.334
153.6
153.55
153.5
153.45
153.4
153.35
153.3
pull
Entries 90
Mean 700.8
Std Dev 0
40
20
0
−20
−40
−60

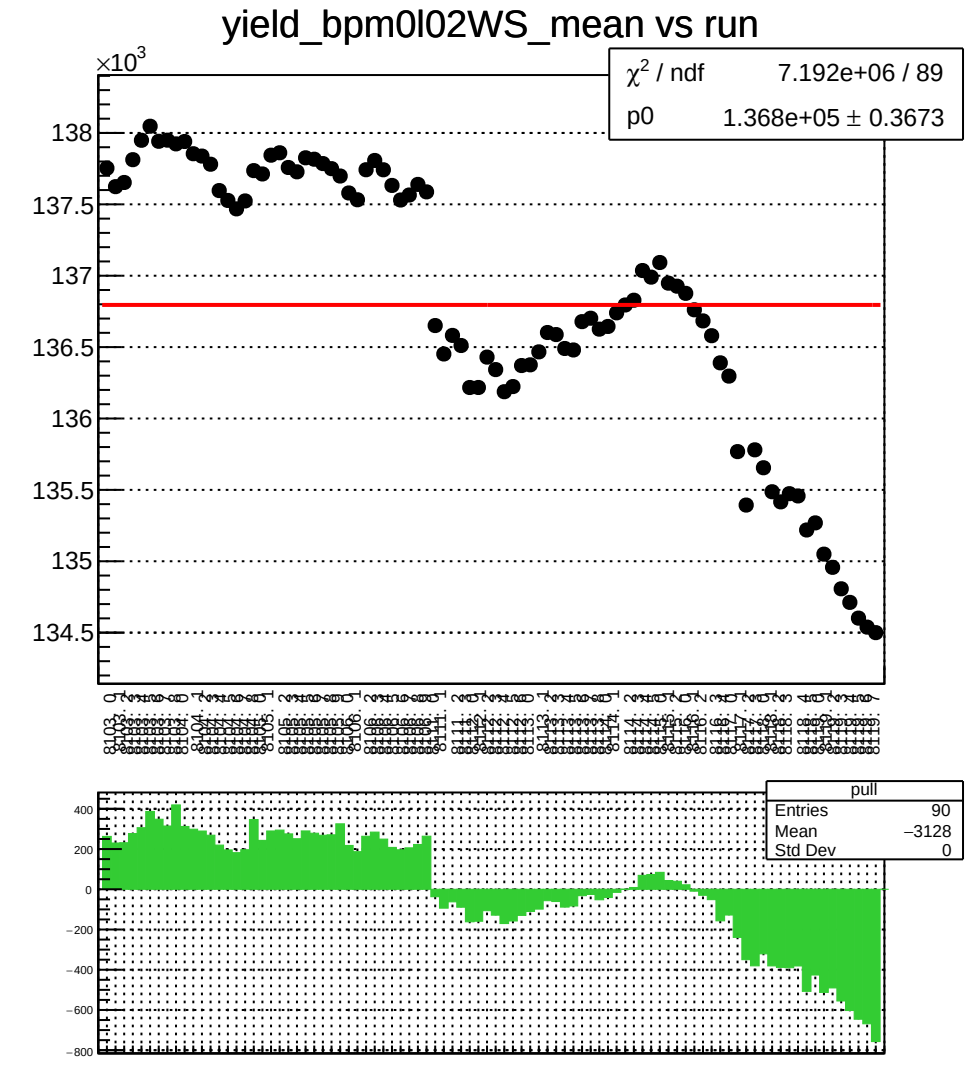

pull1D
Entries 90
Mean 0.2444
Std Dev 4.586
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

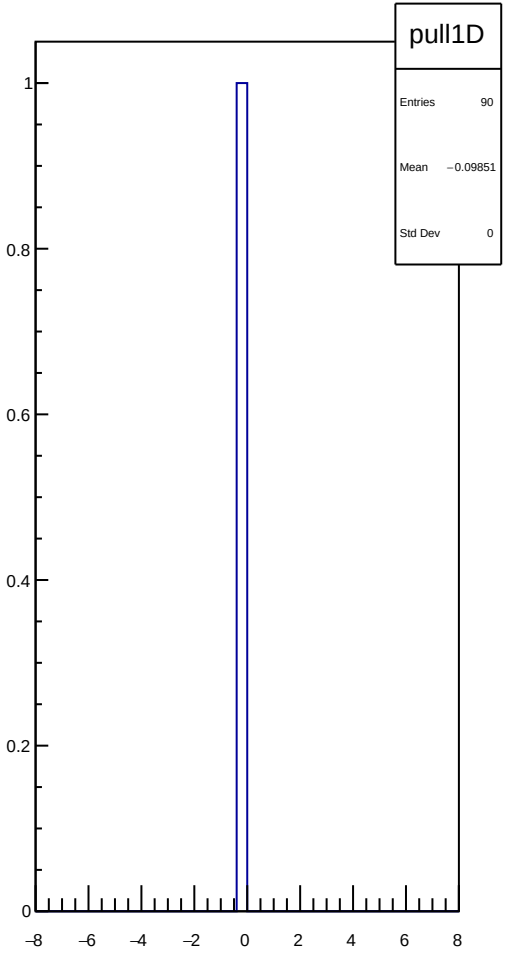

yield_bpm0i01aWS_rms vs run
χ^2 / ndf 2385 / 89
p0 313 ± 0.2362
360
340
320
300
280

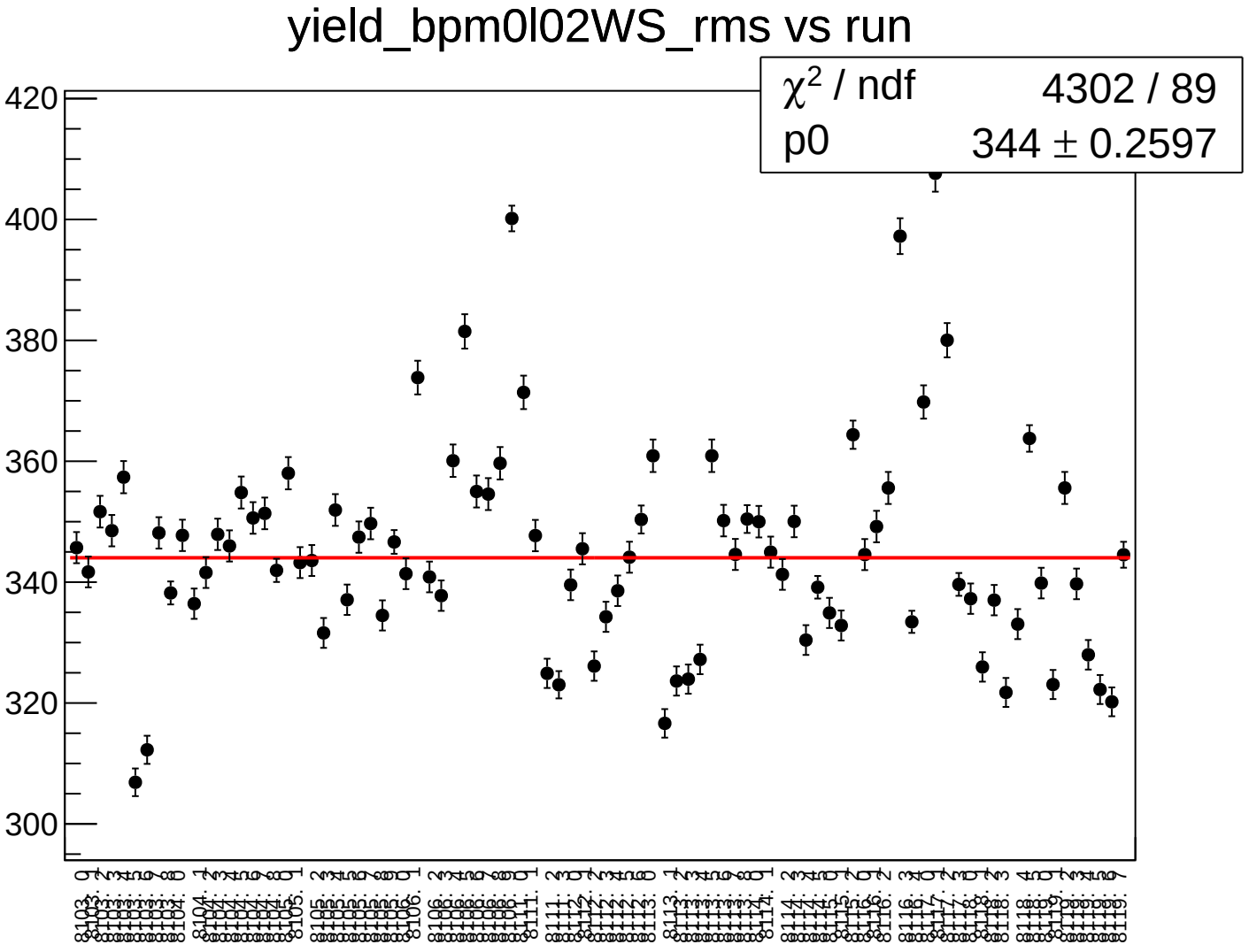

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.357e+05 / 89
p0 1.17e+05 ± 0.2721
117.3
117.2
117.1
117
116.9
116.8
116.7
116.6
116.5
pull
Entries 90
Mean −1748
Std Dev 0
100
50
0
−50
−100
−150

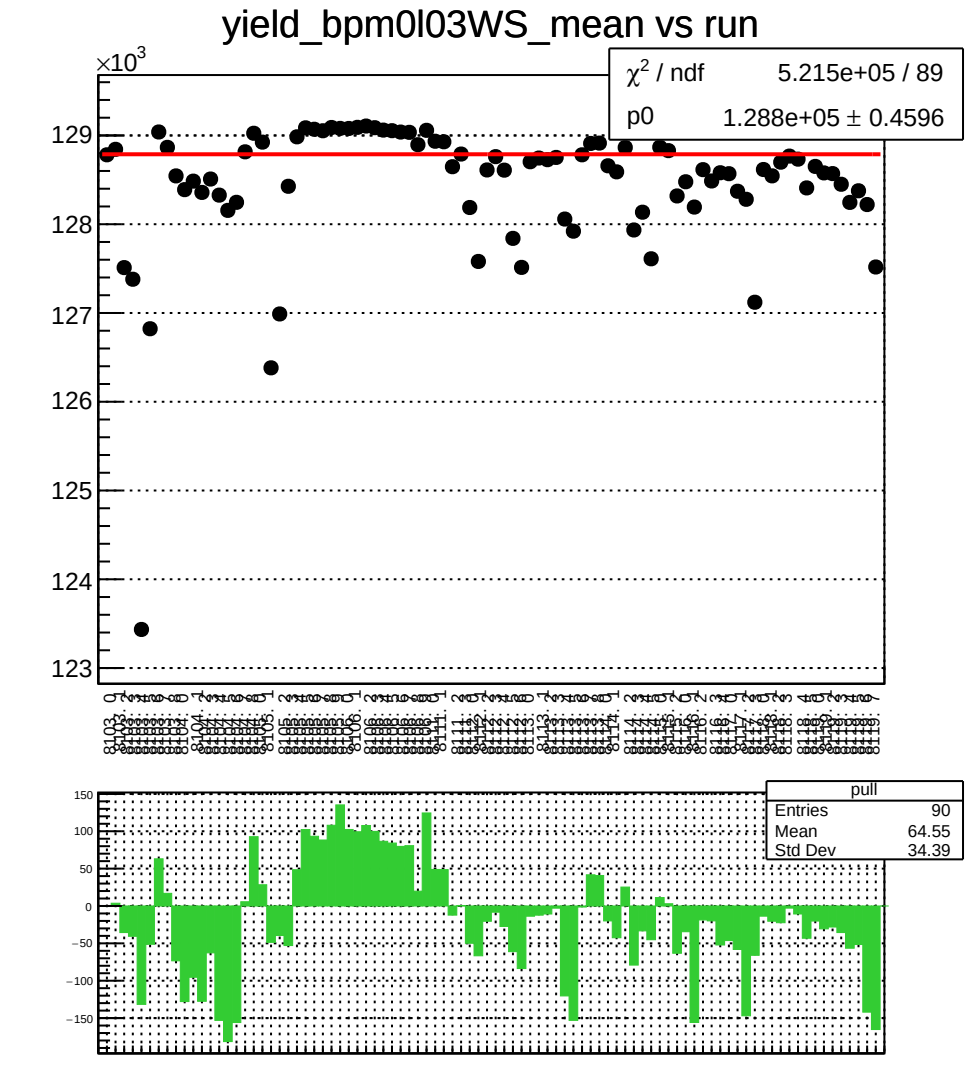

pull1D
Entries 90
Mean 1.16
Std Dev 4.916
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

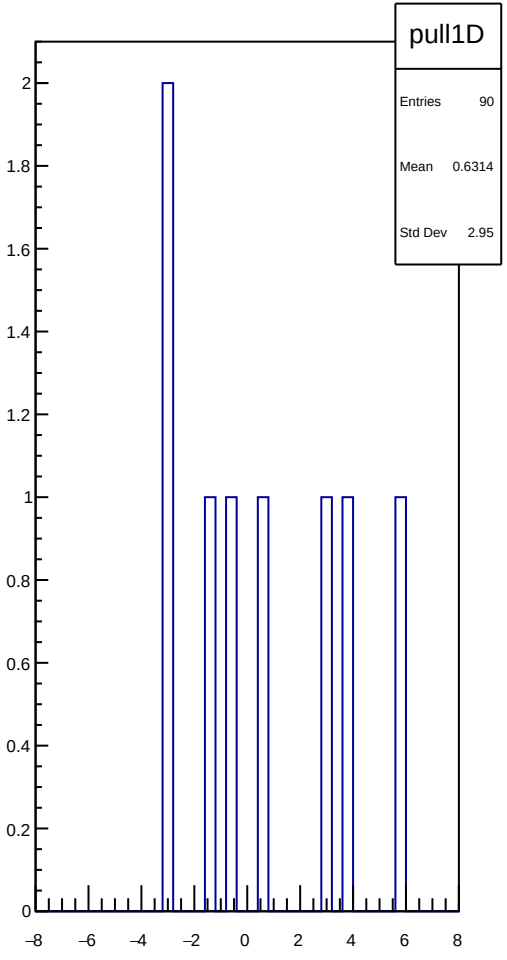

yield_bpm0l01WS_rms vs run
χ² / ndf 3621 / 89
p0 254.9 ± 0.1924
310
300
290
280
270
260
250
240
230
220

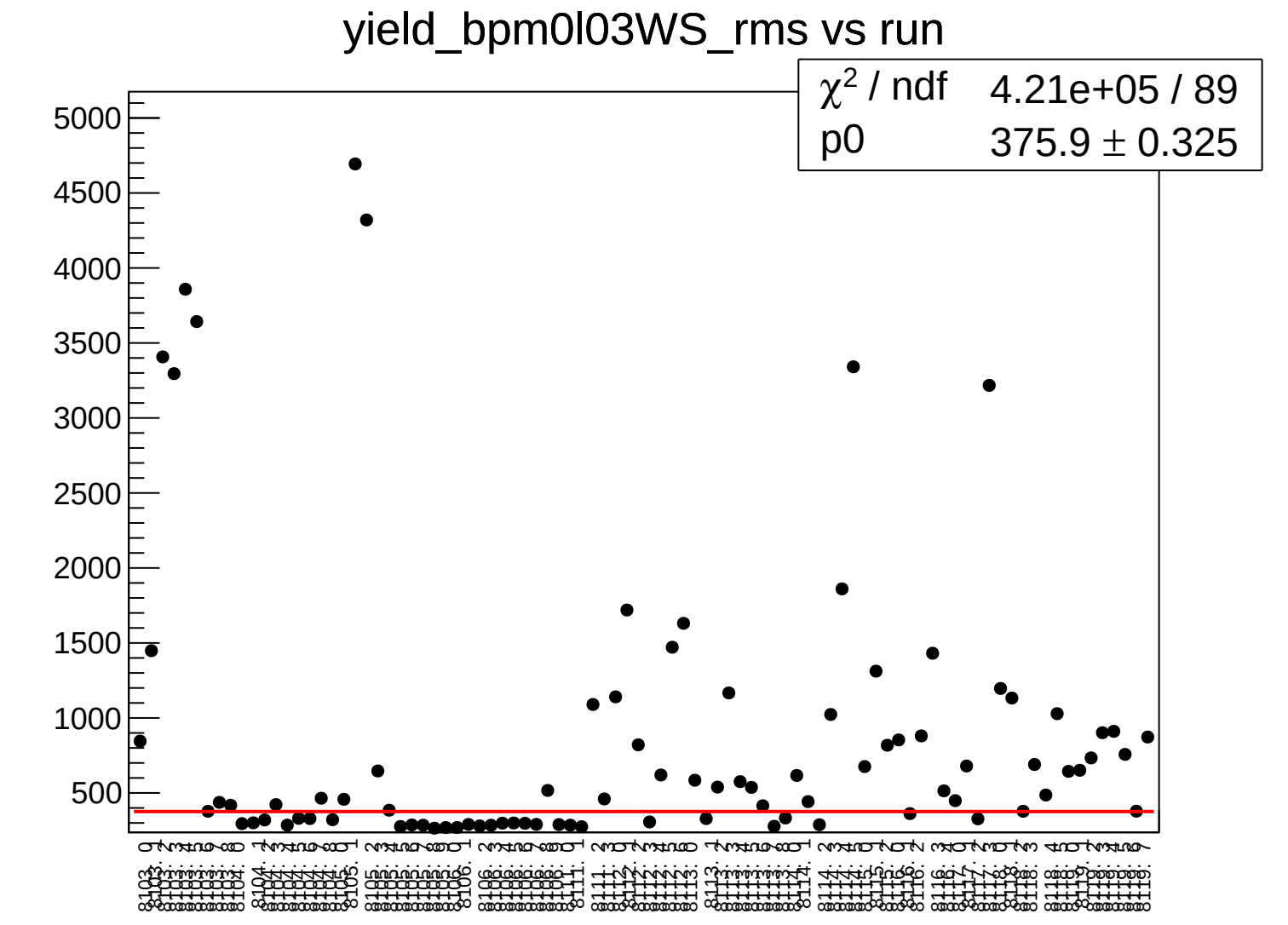

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 7.192e+06 / 89
p0 1.368e+05 ± 0.3673
138
137.5
137
136.5
136
135.5
135
134.5
pull
Entries 90
Mean −3128
Std Dev 0
400
200
0
−200
−400
−600
−800

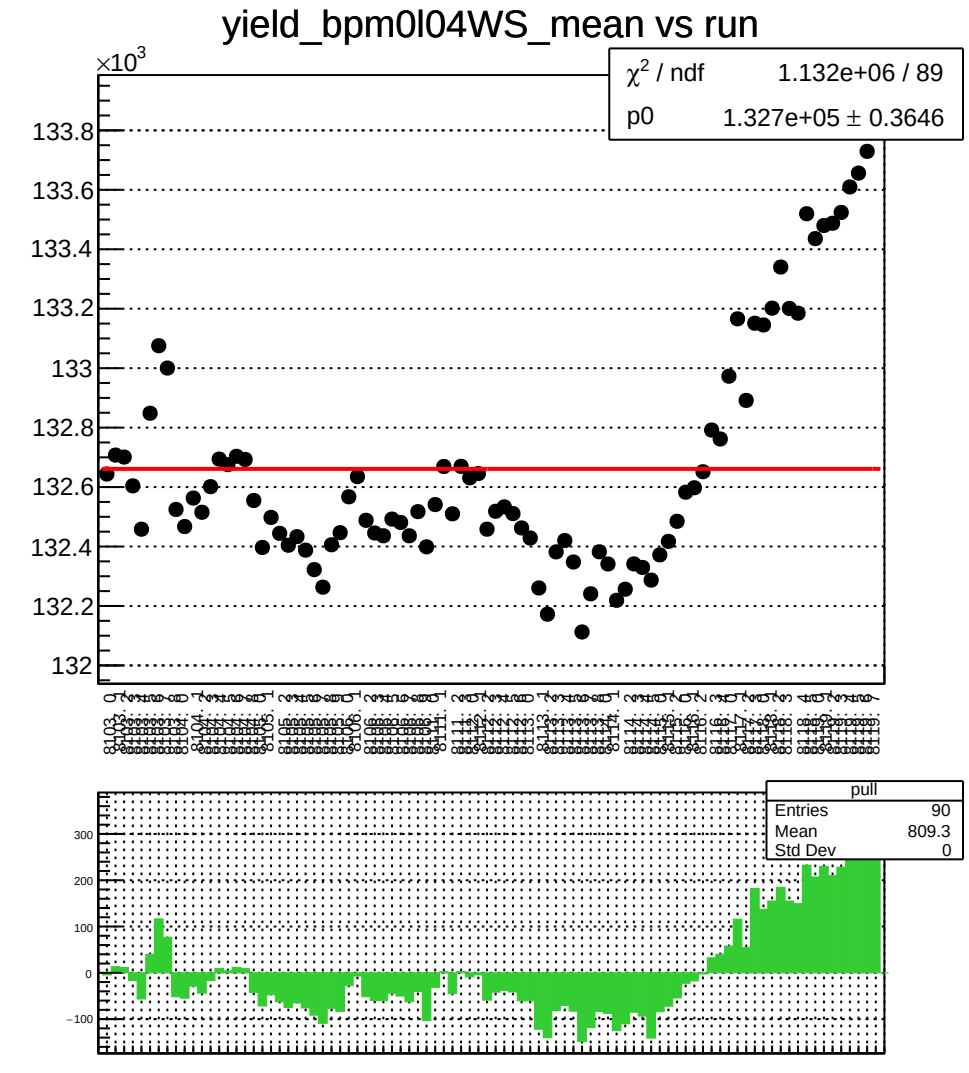

pull1D
Entries 90
Mean −0.09851
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

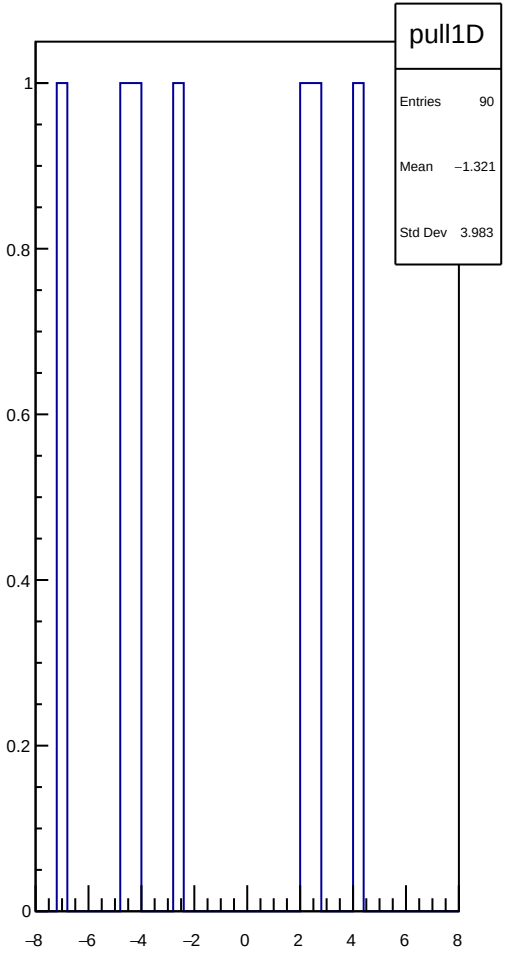

yield_bpm0l02WS_rms vs run
χ² / ndf 4302 / 89
p0 344 ± 0.2597
420
400
380
360
340
320
300

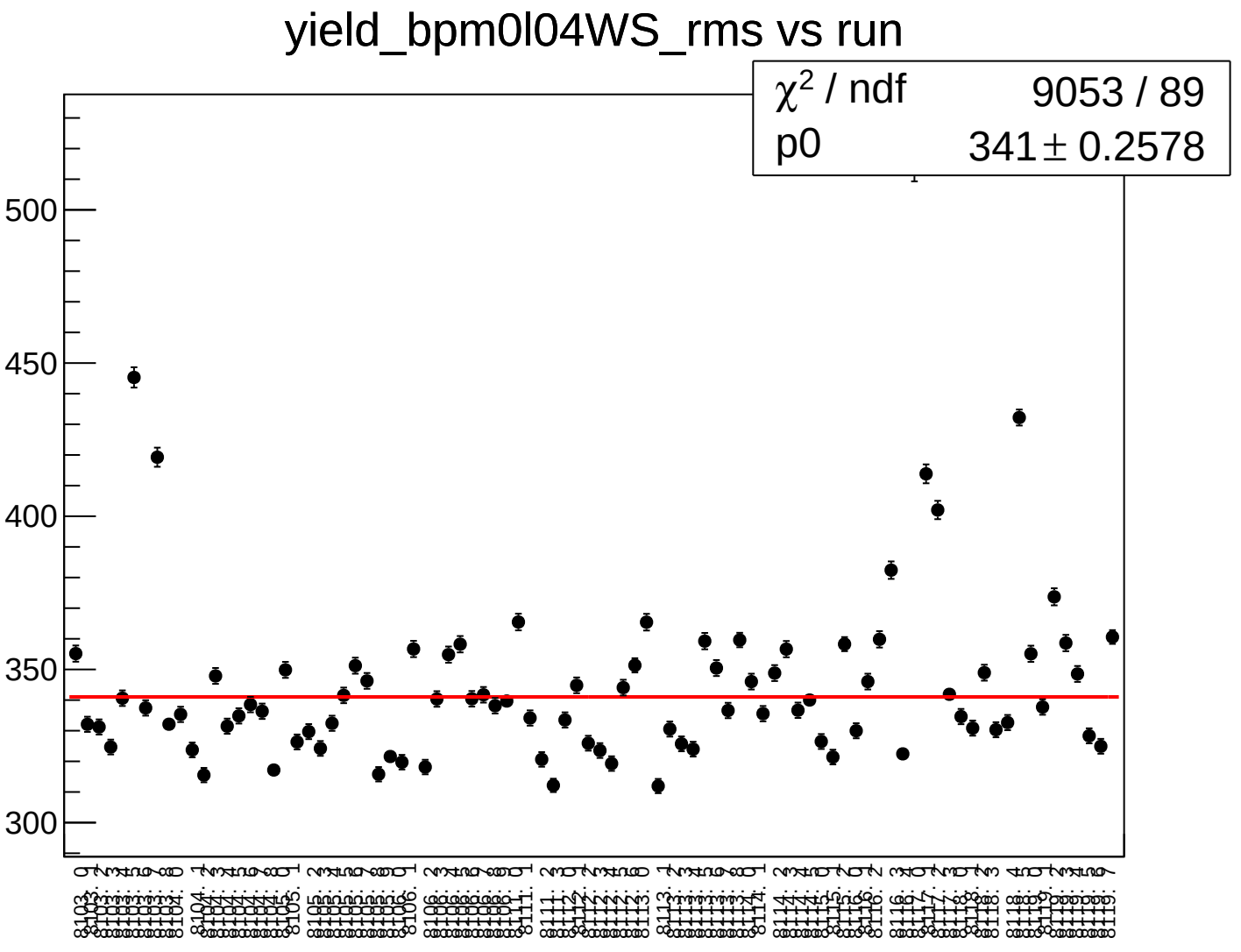

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 5.215e+05 / 89
p0 1.288e+05 ± 0.4596
129
128
127
126
125
124
123
pull
Entries 90
Mean 64.55
Std Dev 34.39
150
100
50
0
−50
−100
−150

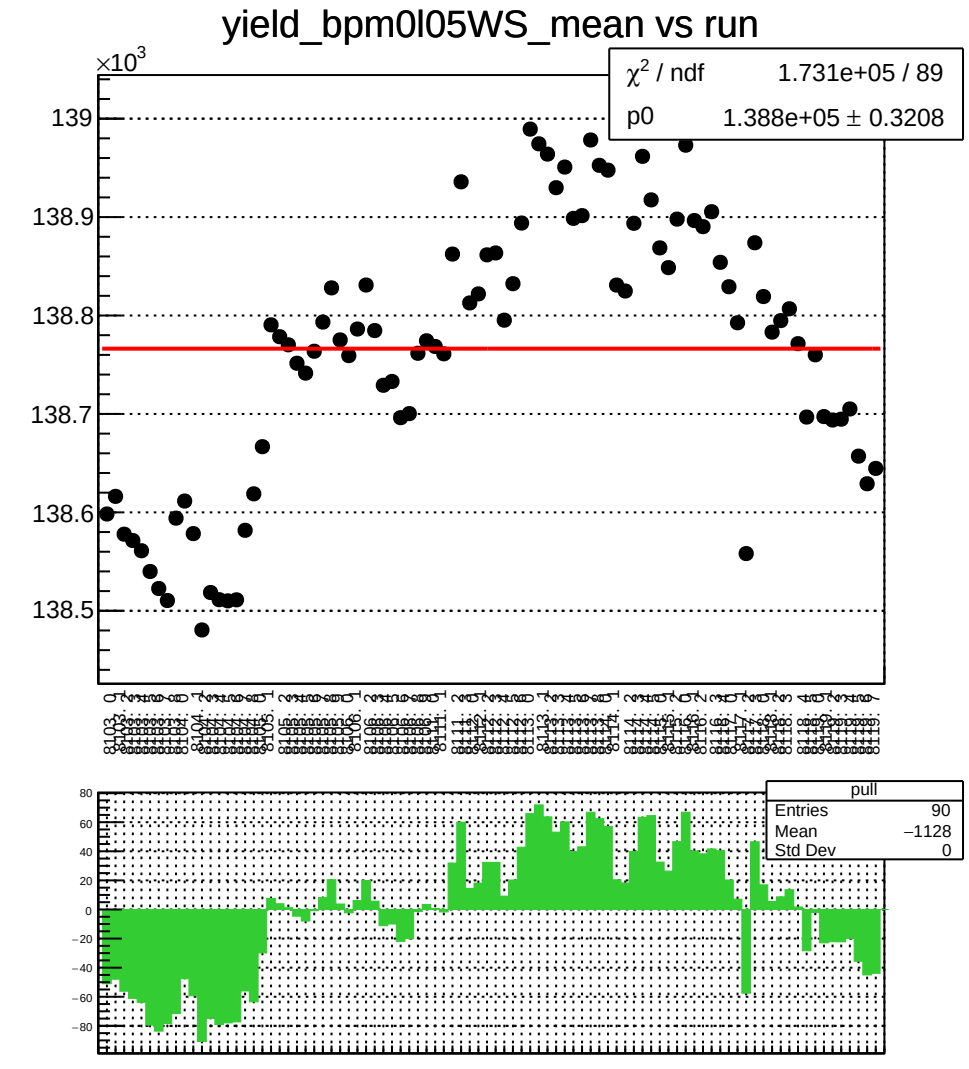

pull1D
Entries 90
Mean 0.6314
Std Dev 2.95
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

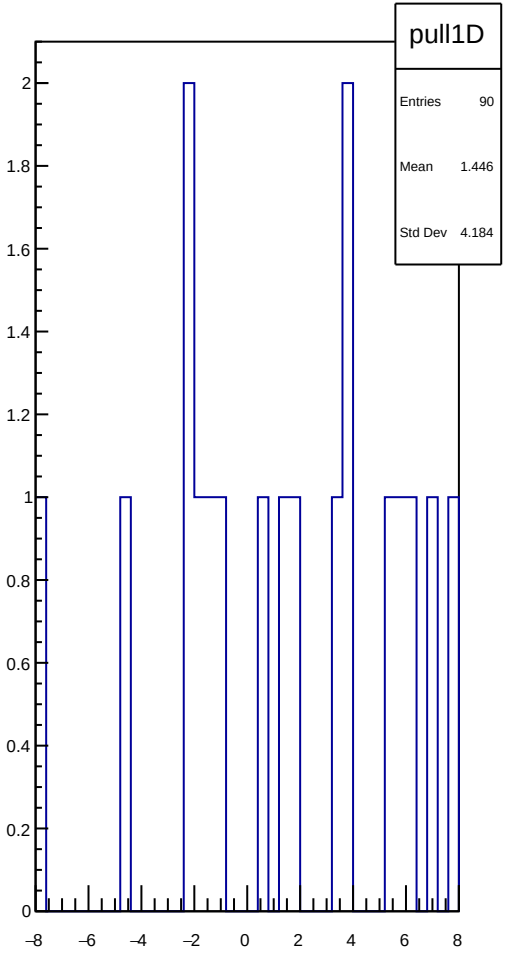

yield_bpm0l03WS_rms vs run
χ^2 / ndf 4.21e+05 / 89
p0 375.9 ± 0.325
5000
4500
4000
3500
3000
2500
2000
1500
1000
500

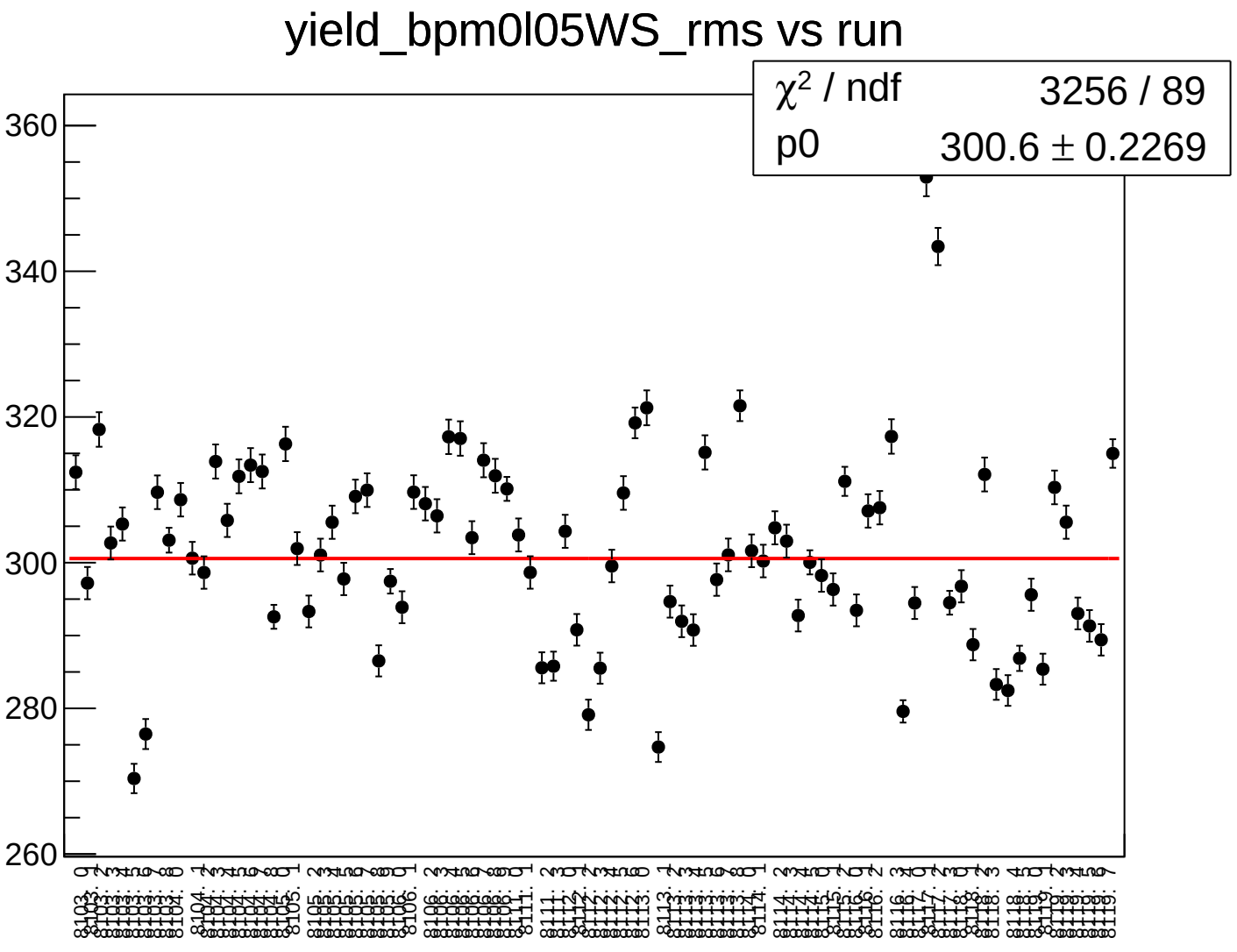

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.132e+06 / 89
p0 1.327e+05 ± 0.3646
133.8
133.6
133.4
133.2
133
132.8
132.6
132.4
132.2
132
pull
Entries 90
Mean 809.3
Std Dev 0
300
200
100
0
−100

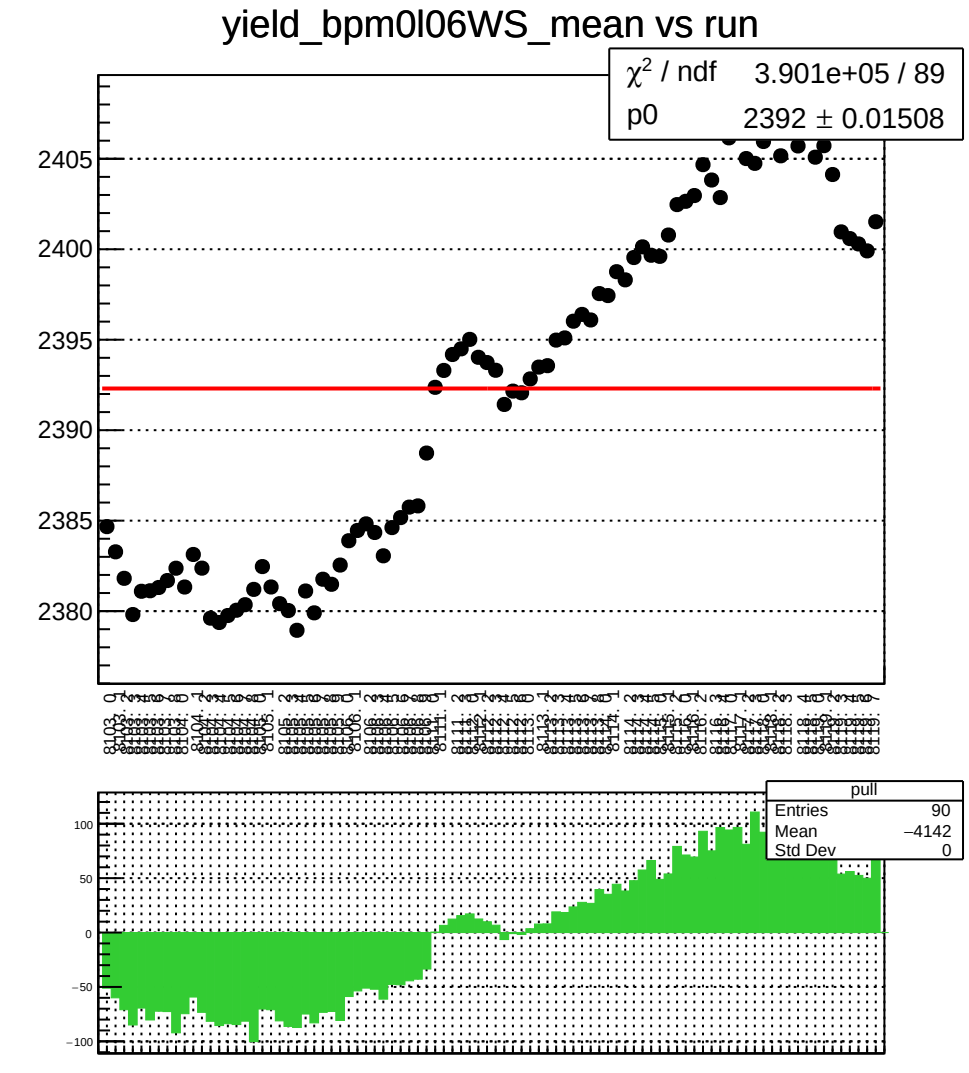

pull1D
Entries 90
Mean −1.321
Std Dev 3.983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

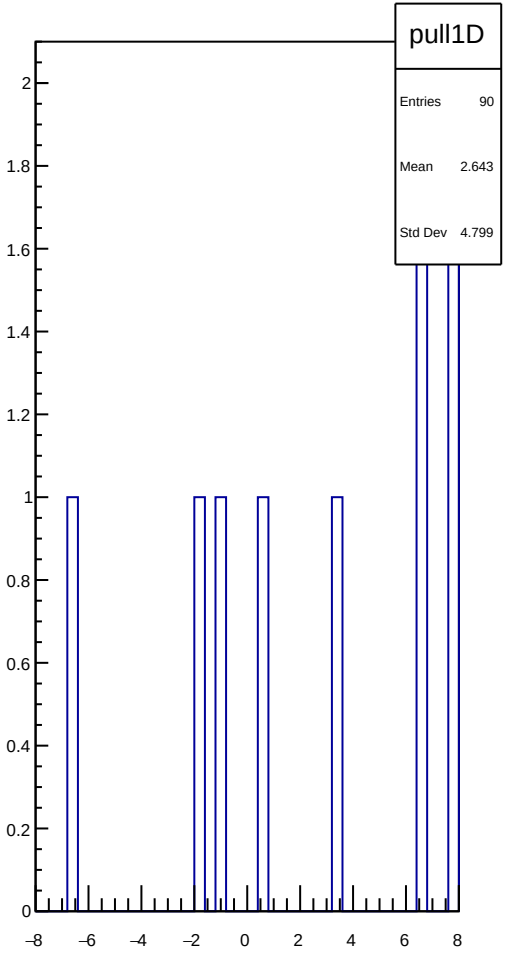

yield_bpm0l04WS_rms vs run
χ² / ndf 9053 / 89
p0 341 ± 0.2578
500
450
400
350
300

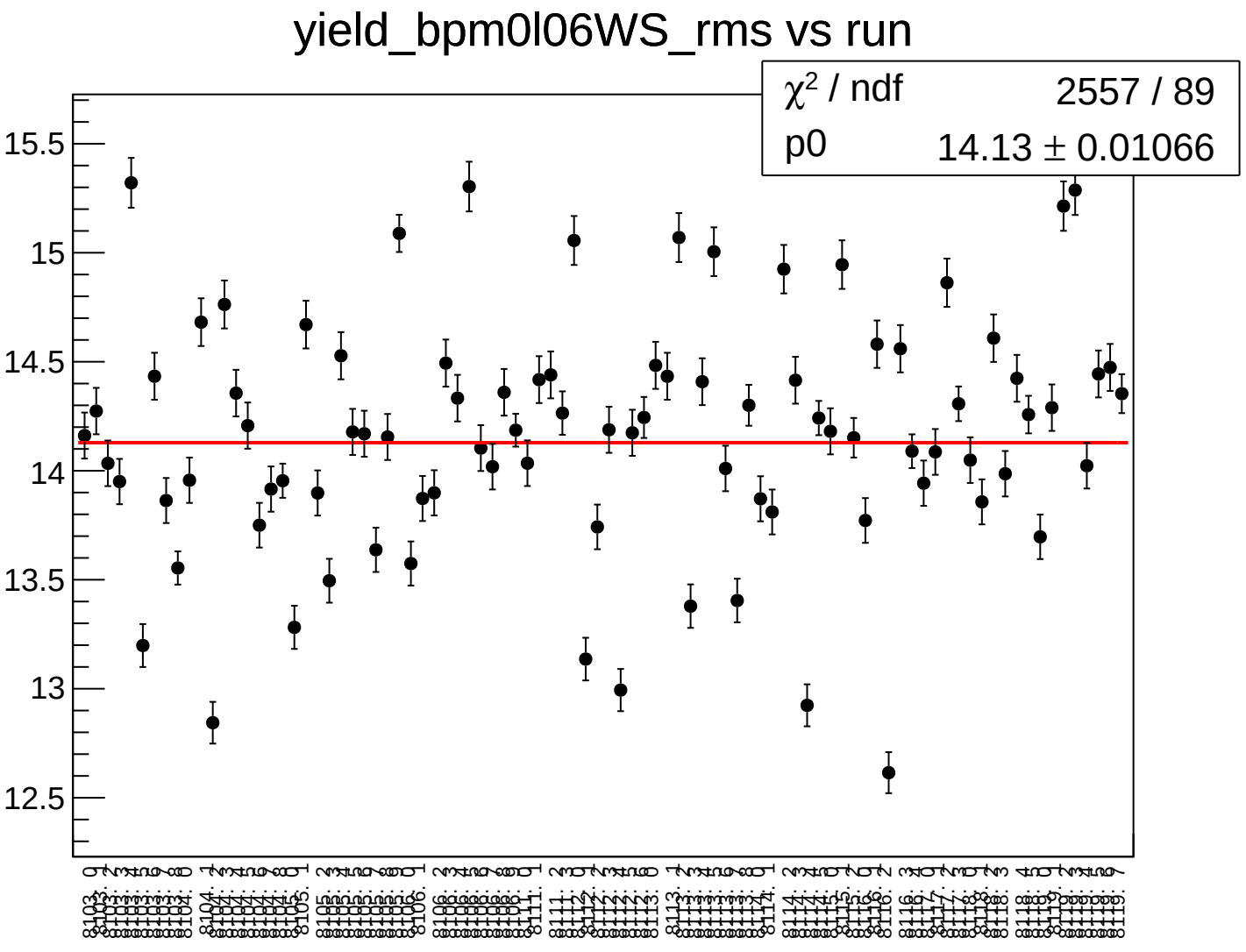

yield_bpm0l05WS_mean vs run
χ² / ndf 1.731e+05 / 89
p0 1.388e+05 ± 0.3208
×10³
139
138.9
138.8
138.7
138.6
138.5
pull
Entries 90
Mean −1128
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

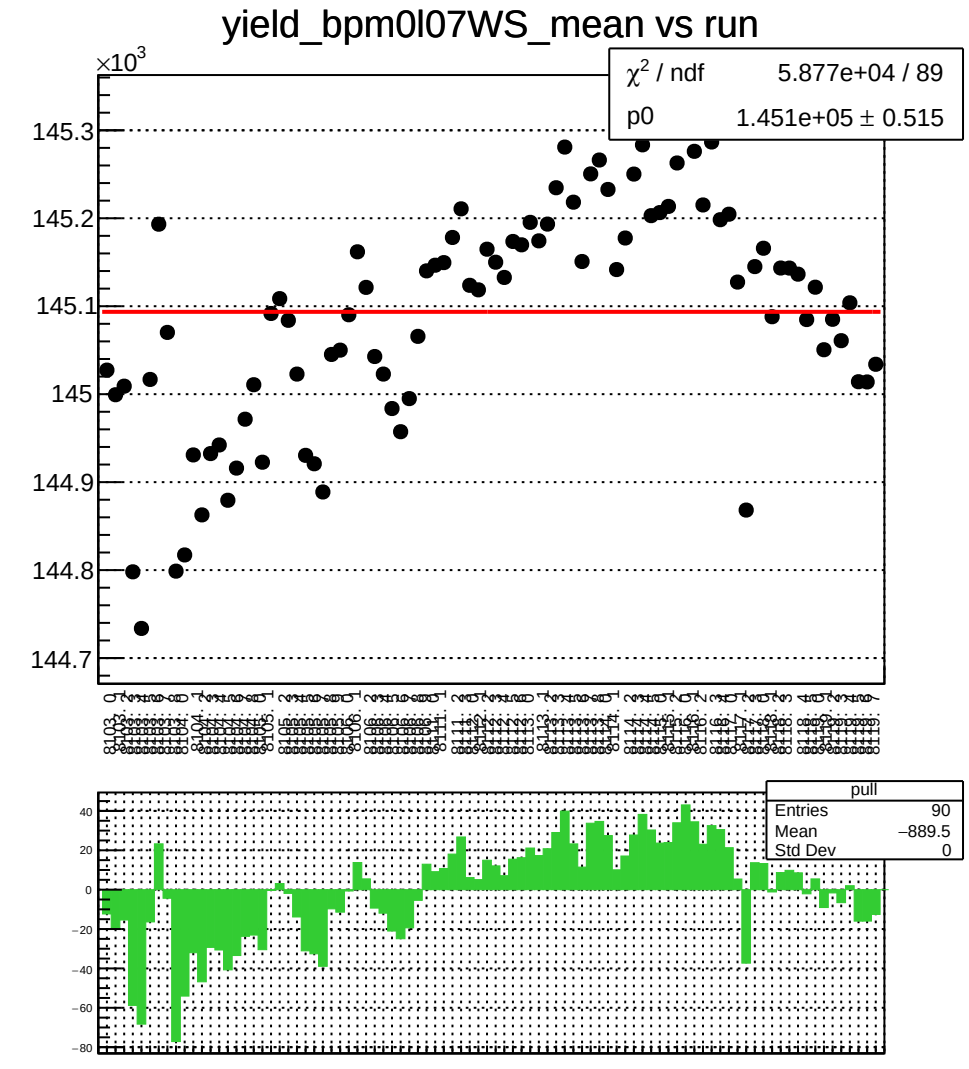

pull1D
Entries 90
Mean 1.446
Std Dev 4.184
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

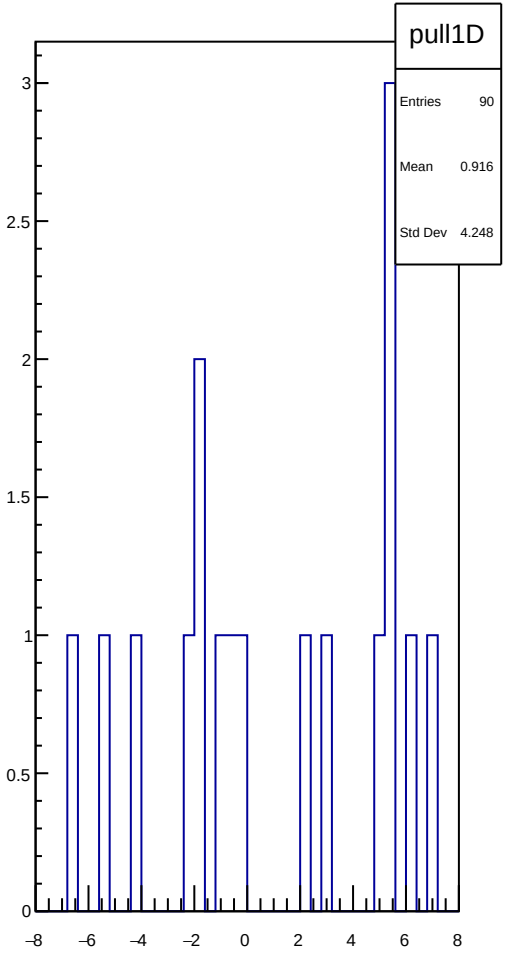

yield_bpm0l05WS_rms vs run
χ² / ndf 3256 / 89
p0 300.6 ± 0.2269
360
340
320
300
280
260

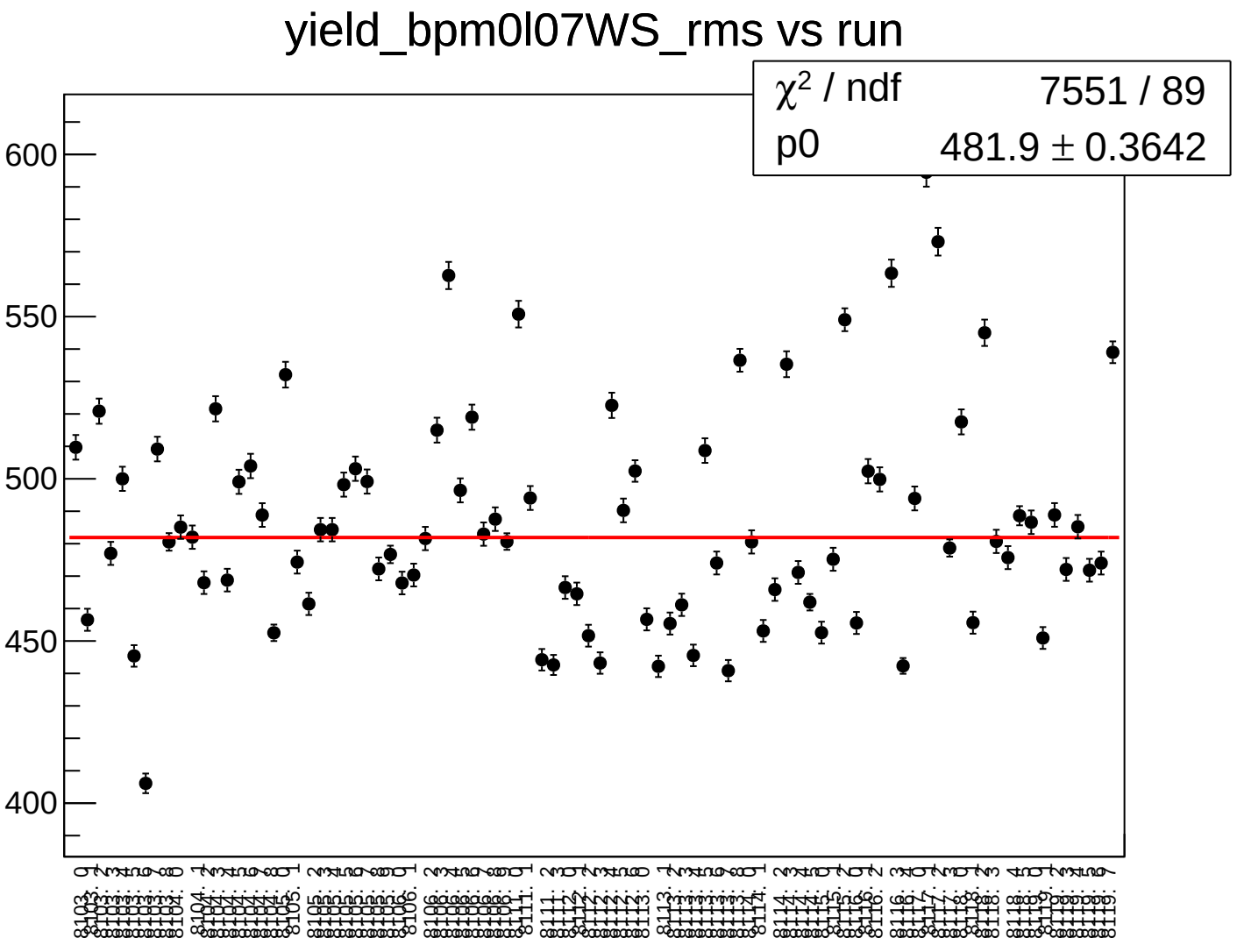

yield_bpm0l06WS_mean vs run
χ² / ndf 3.901e+05 / 89
p0 2392 ± 0.01508
2405
2400
2395
2390
2385
2380
pull
Entries 90
Mean −4142
Std Dev 0
100
50
0
−50
−100

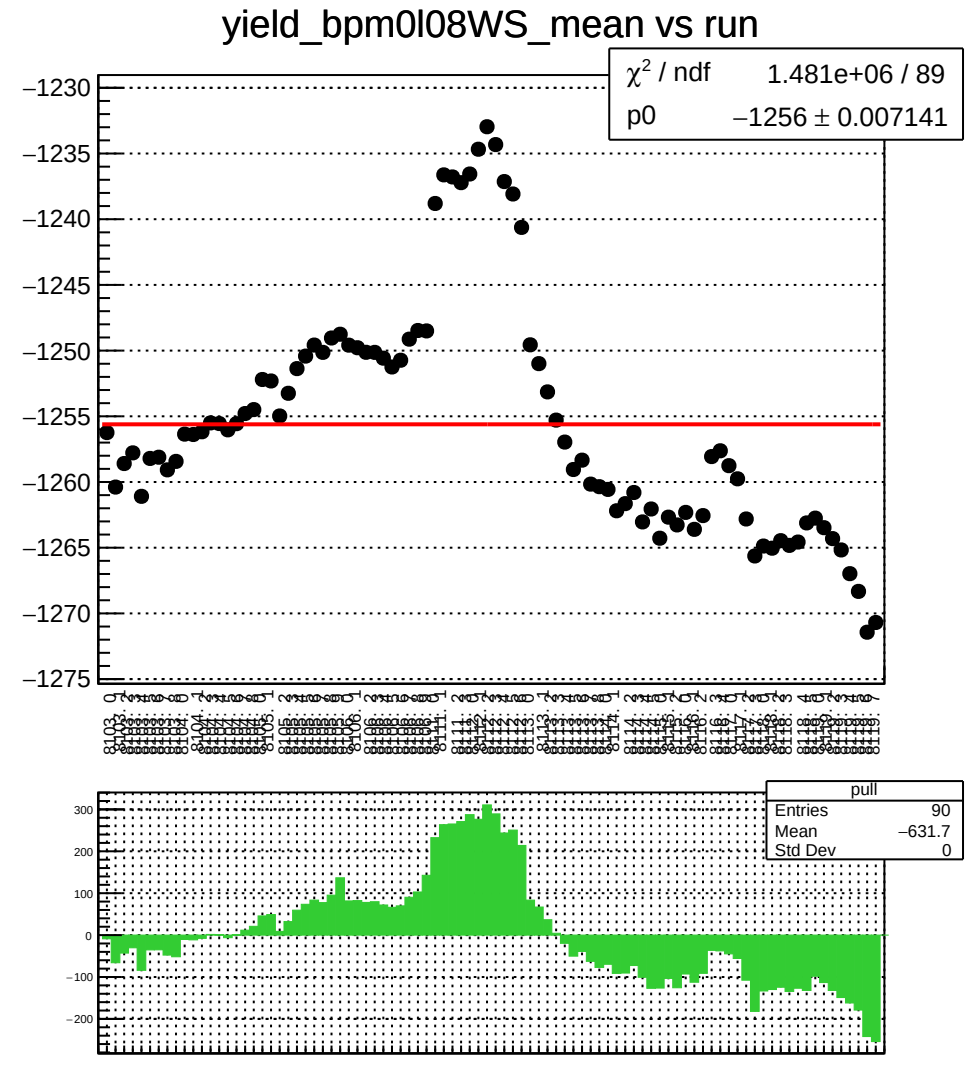

pull1D
Entries 90
Mean 2.643
Std Dev 4.799
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

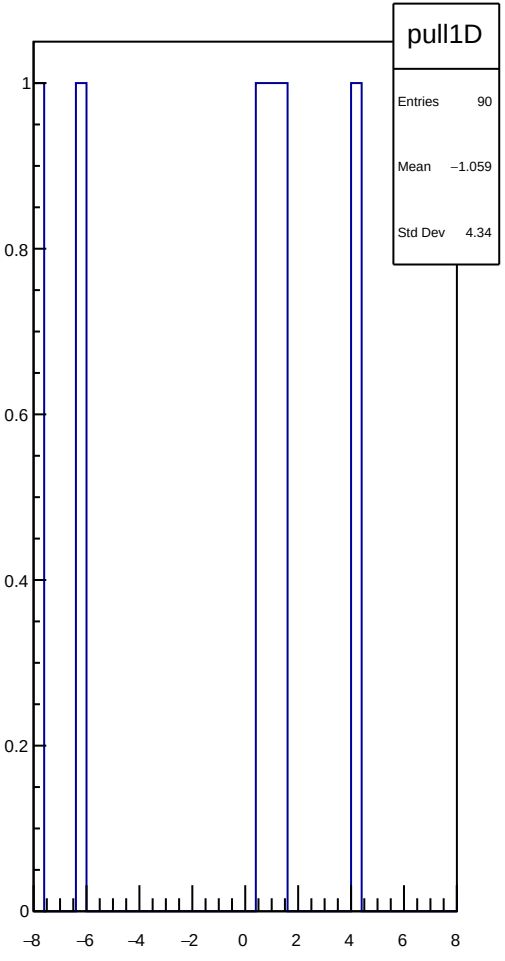

yield_bpm0l06WS_rms vs run
χ² / ndf 2557 / 89
p0 14.13 ± 0.01066
15.5
15
14.5
14
13.5
13
12.5

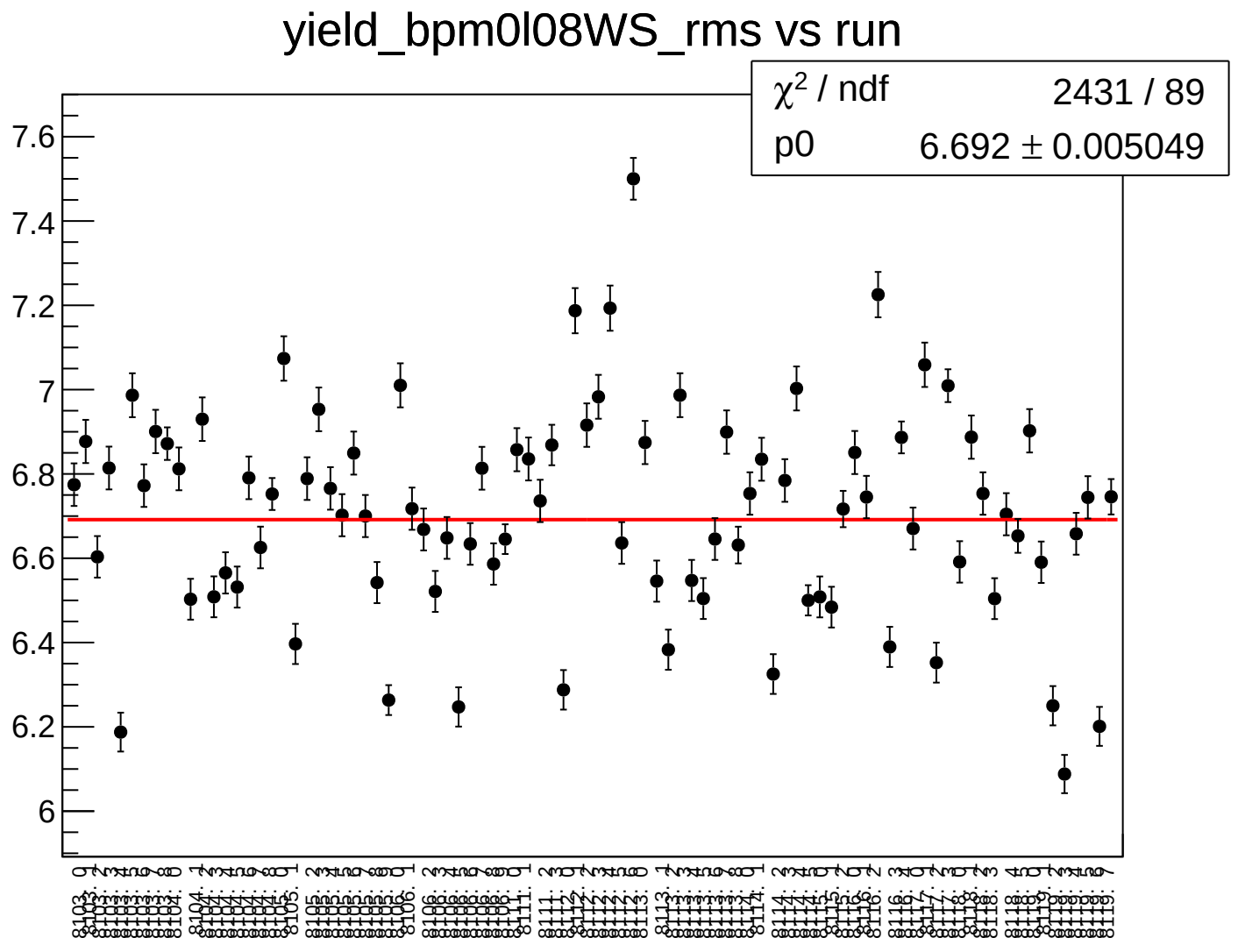

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 5.877e+04 / 89
p0 1.451e+05 ± 0.515
145.3
145.2
145.1
145
144.9
144.8
144.7
pull
Entries 90
Mean −889.5
Std Dev 0
40
20
0
−20
−40
−60
−80

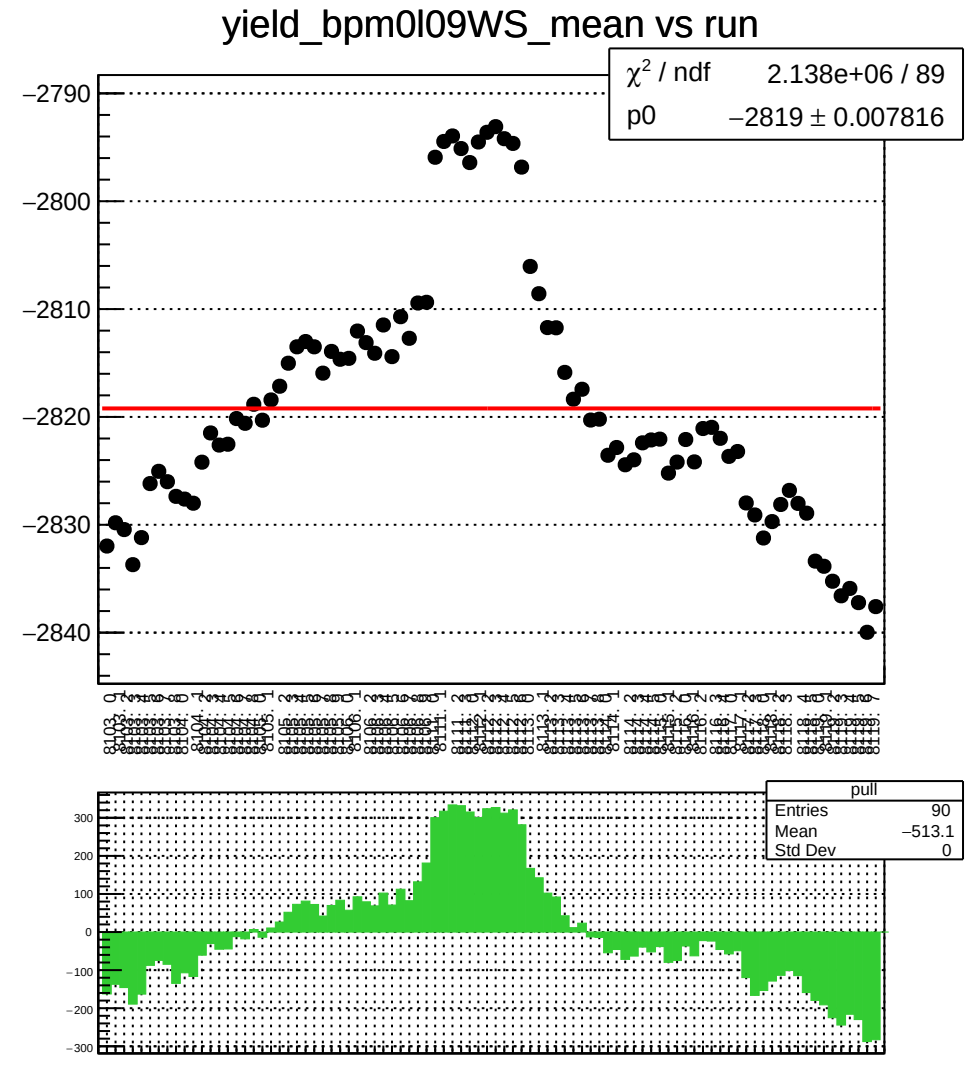

pull1D
Entries 90
Mean 0.916
Std Dev 4.248
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

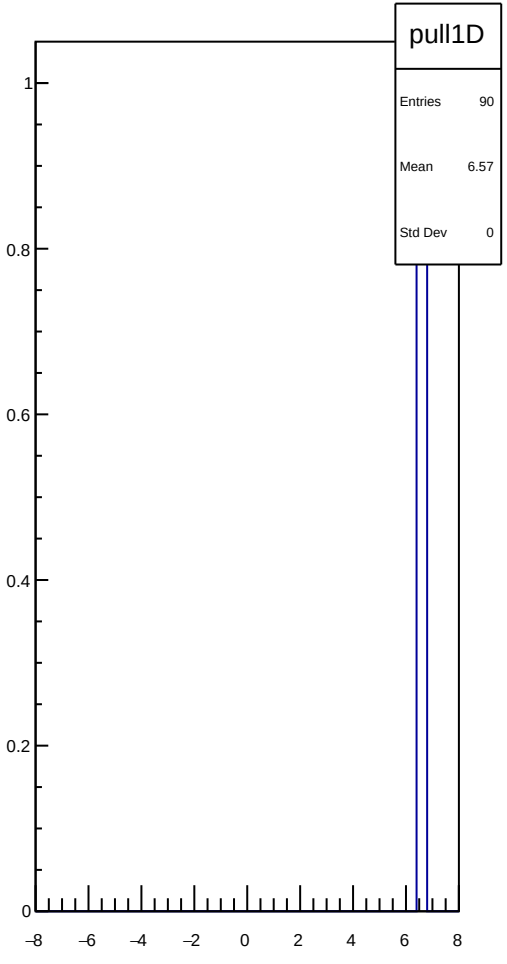

yield_bpm0l07WS_rms vs run
χ² / ndf 7551 / 89
p0 481.9 ± 0.3642
600
550
500
450
400

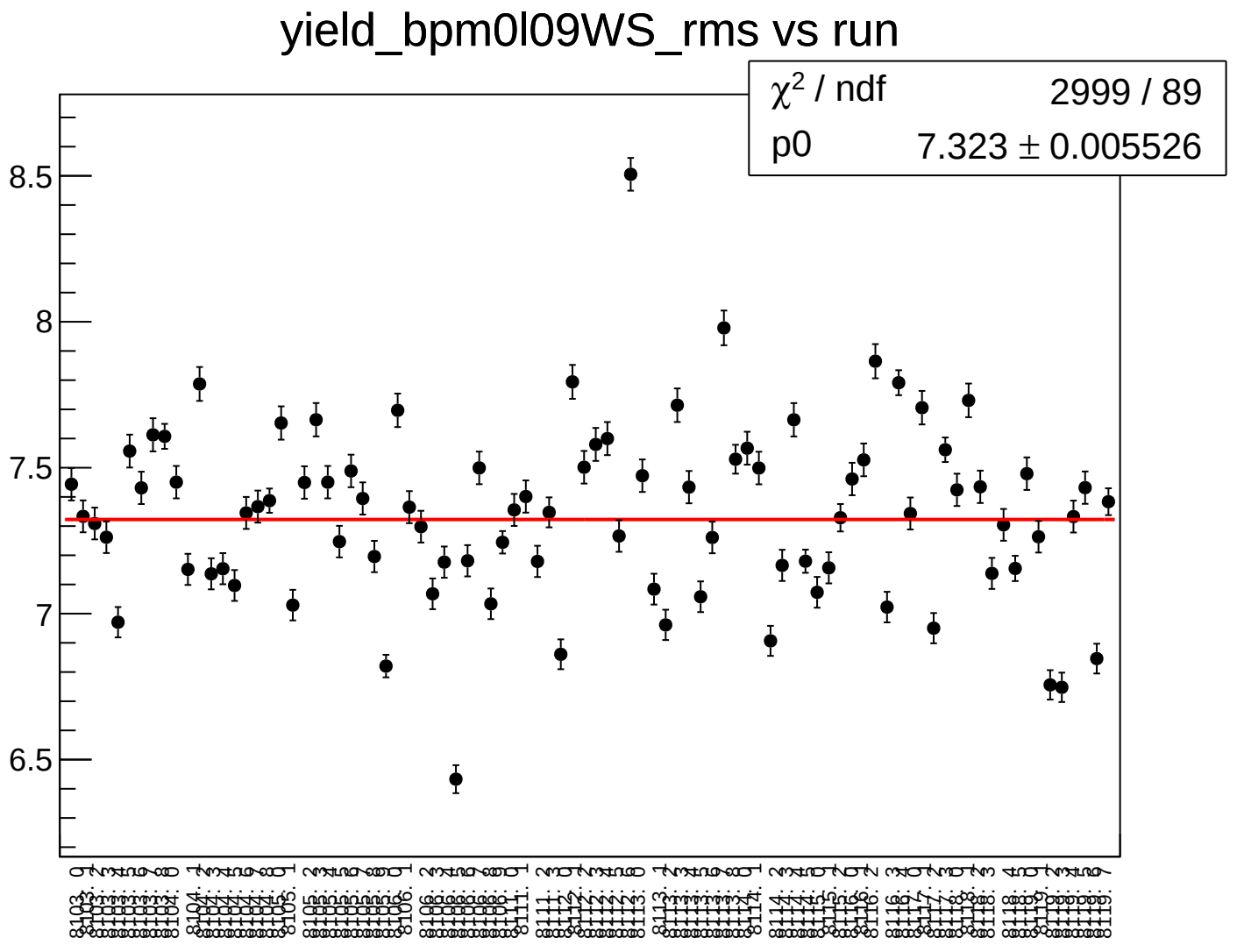

yield_bpm0l08WS_mean vs run
χ² / ndf 1.481e+06 / 89
p0 −1256 ± 0.007141
pull
Entries 90
Mean −631.7
Std Dev 0

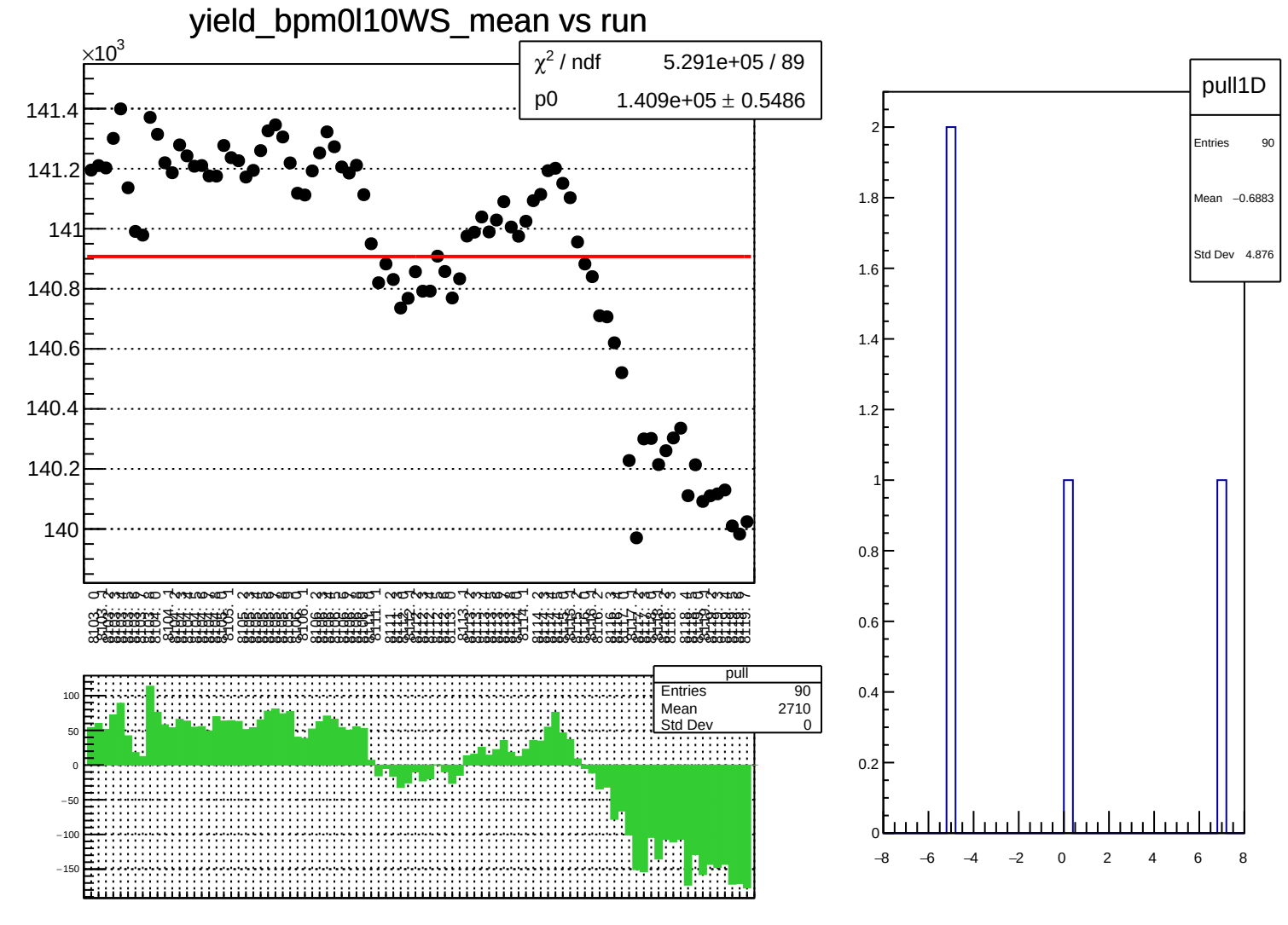

pull1D
Entries 90
Mean −1.059
Std Dev 4.34

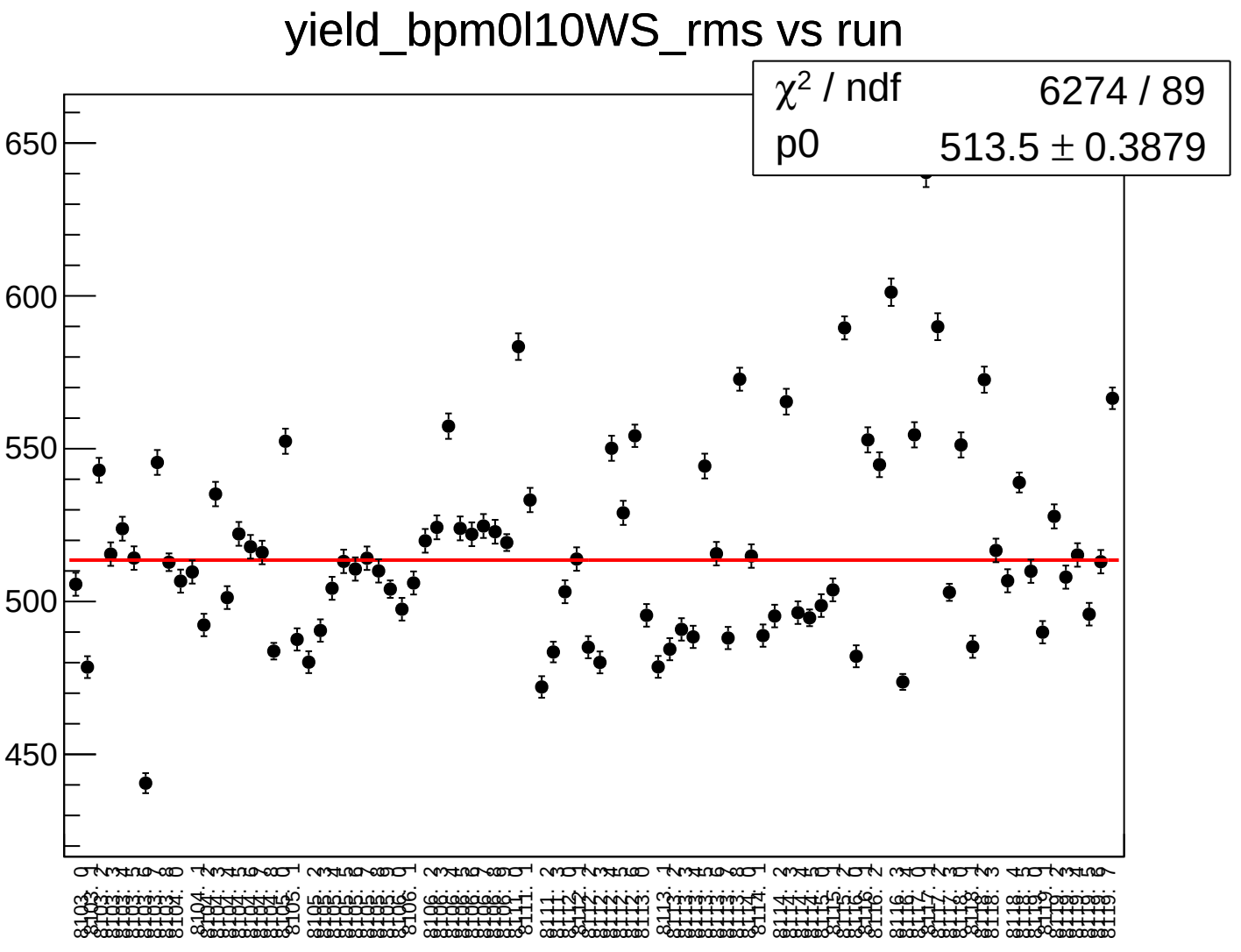

yield_bpm0l08WS_rms vs run
χ² / ndf 2431 / 89
p0 6.692 ± 0.005049
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
6

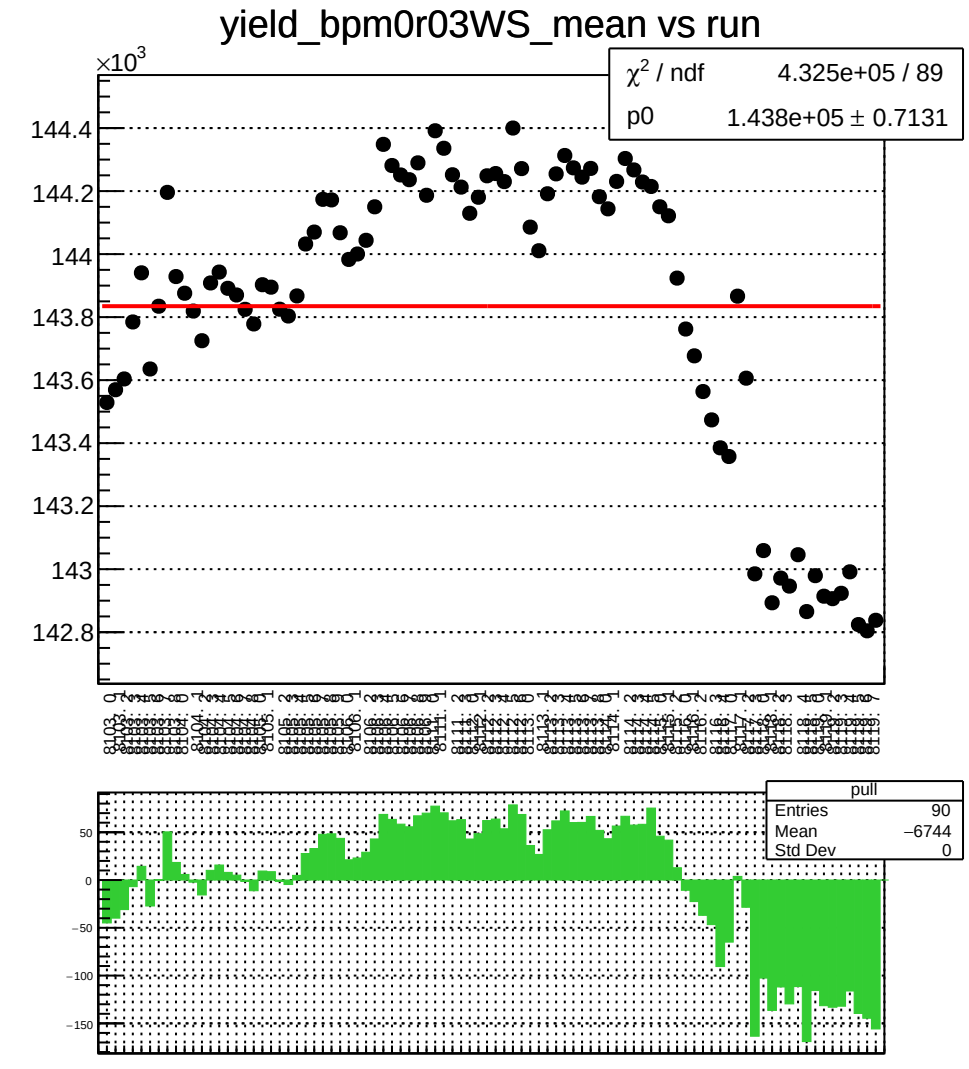

yield_bpm0l09WS_mean vs run
χ² / ndf 2.138e+06 / 89
p0 −2819 ± 0.007816
−2790
−2800
−2810
−2820
−2830
−2840
pull
Entries 90
Mean −513.1
Std Dev 0
300
200
100
0
−100
−200
−300

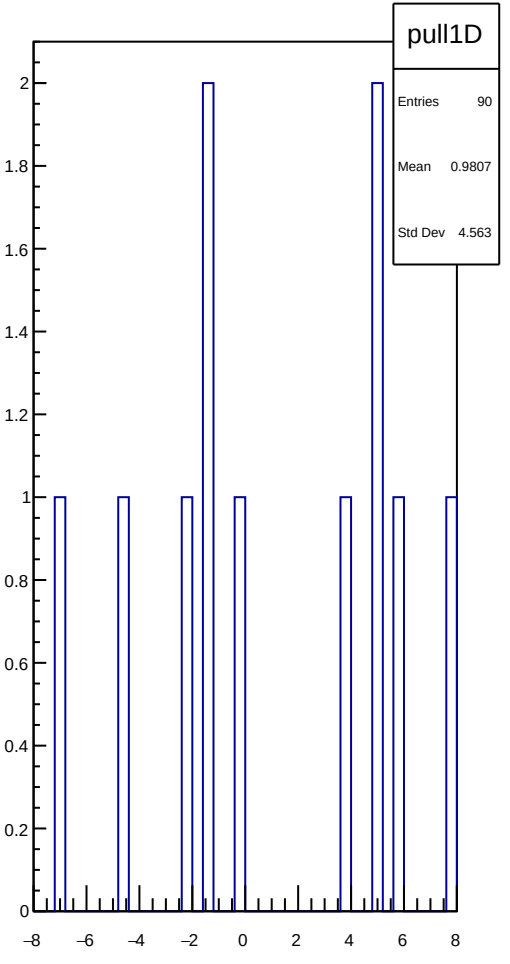

pull1D
Entries 90
Mean 6.57
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

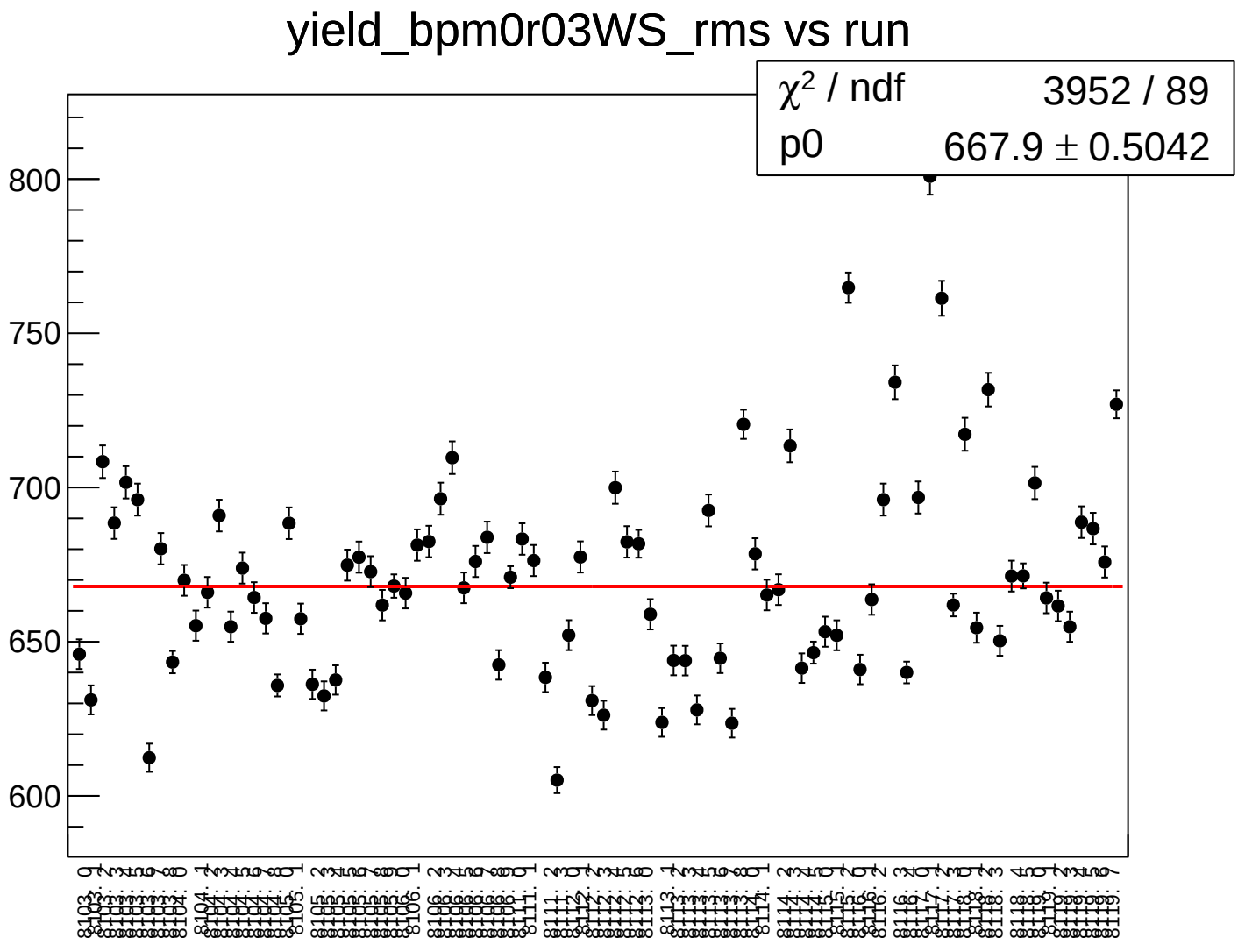

yield_bpm0l09WS_rms vs run
χ² / ndf 2999 / 89
p0 7.323 ± 0.005526
8.5
8
7.5
7
6.5

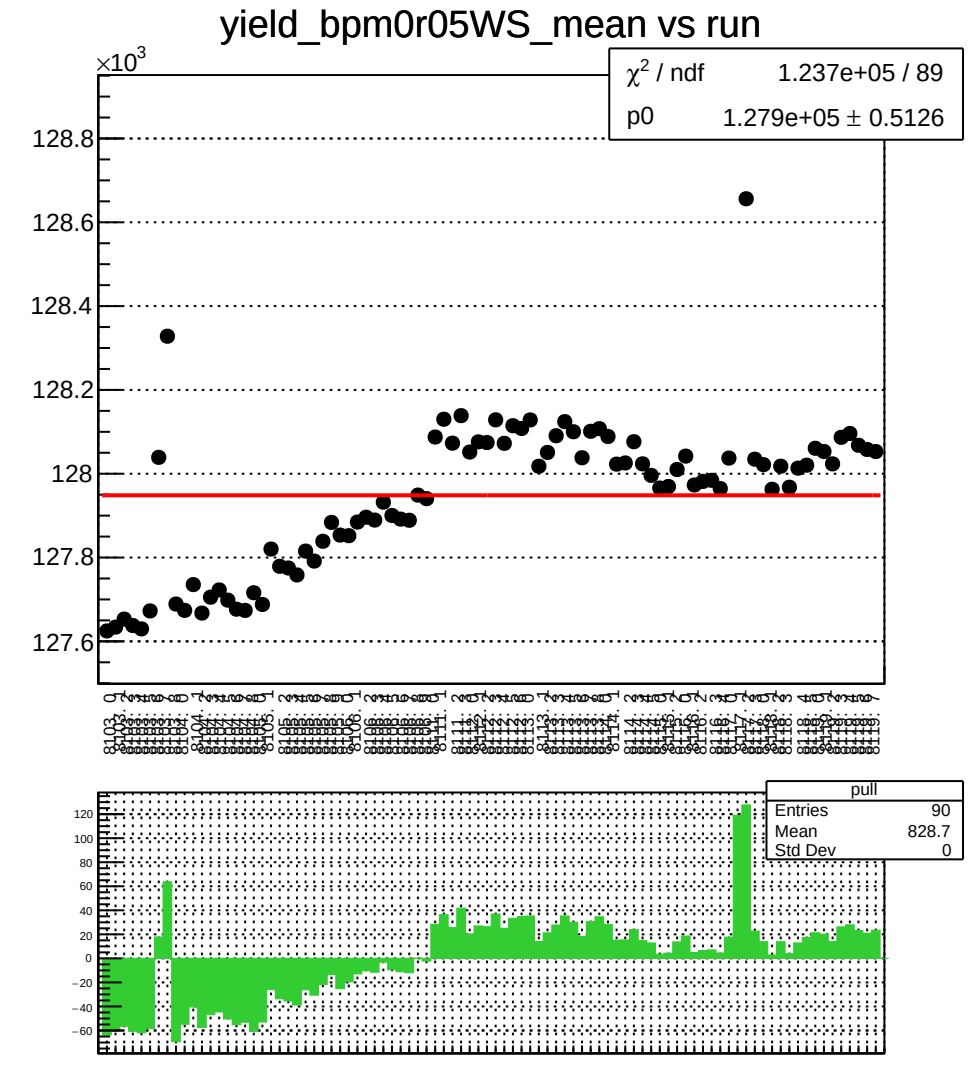

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 5.291e+05 / 89
p0 1.409e+05 ± 0.5486
141.4
141.2
141
140.8
140.6
140.4
140.2
140
pull
Entries 90
Mean 2710
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 90
Mean −0.6883
Std Dev 4.876
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

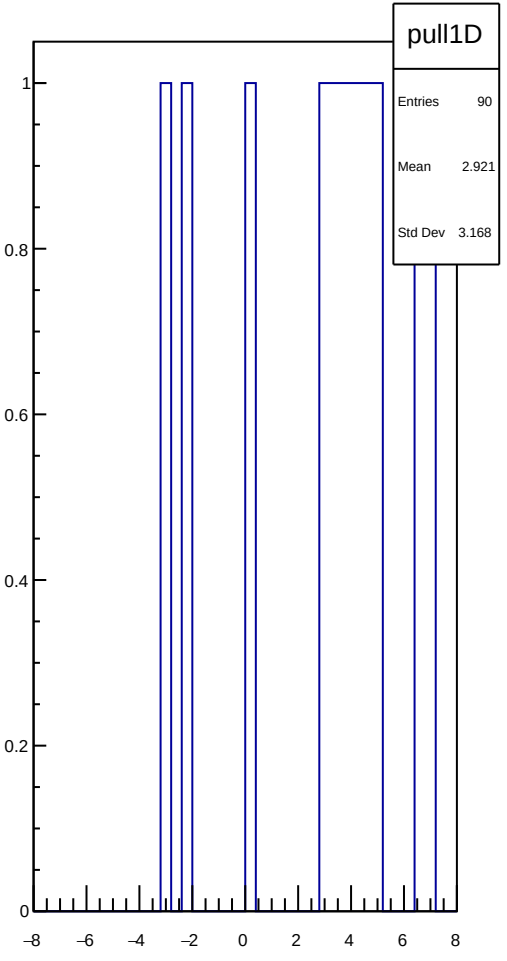

yield_bpm0l10WS_rms vs run
χ² / ndf 6274 / 89
p0 513.5 ± 0.3879
650
600
550
500
450

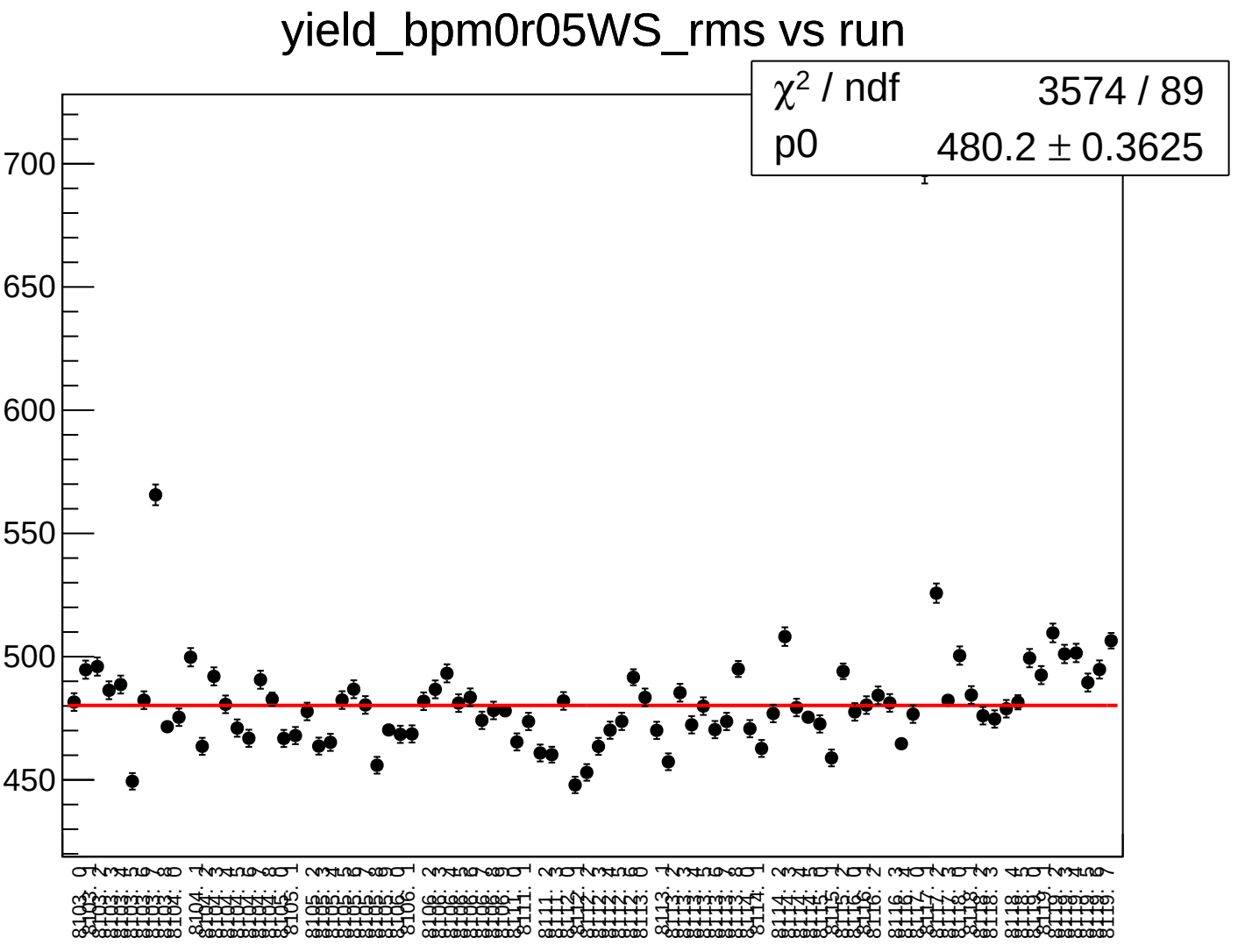

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 4.325e+05 / 89
p0 1.438e+05 ± 0.7131
144.4
144.2
144
143.8
143.6
143.4
143.2
143
142.8
pull
Entries 90
Mean −6744
Std Dev 0
50
0
−50
−100
−150

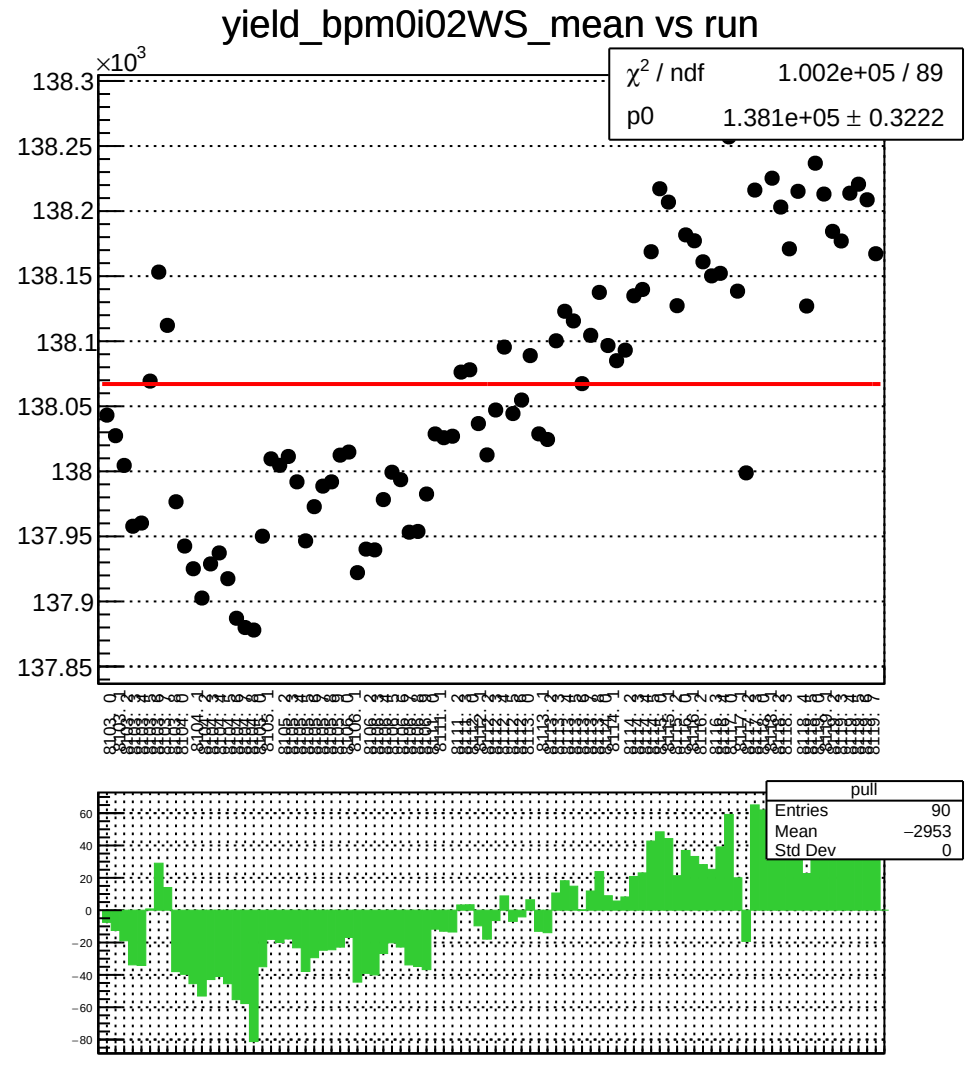

pull1D
Entries 90
Mean 0.9807
Std Dev 4.563
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

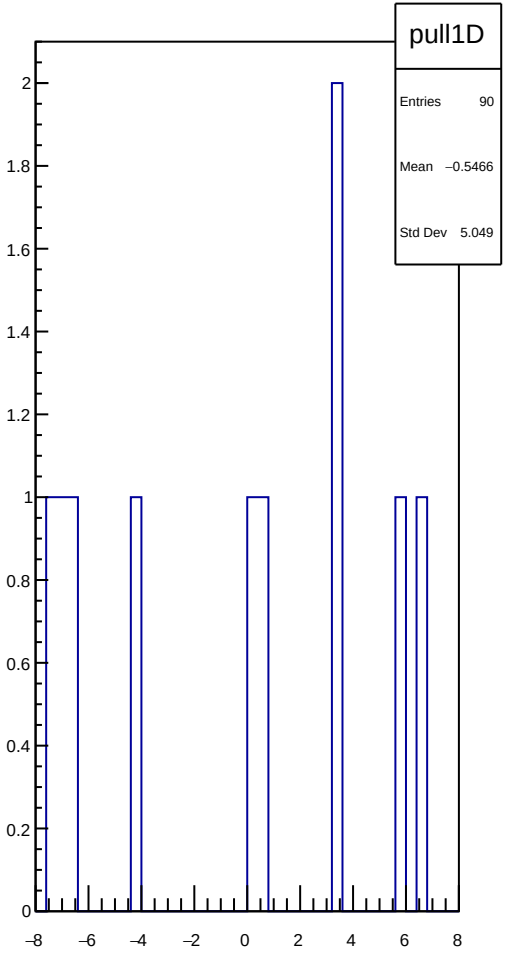

yield_bpm0r03WS_rms vs run
χ² / ndf 3952 / 89
p0 667.9 ± 0.5042
800
750
700
650
600

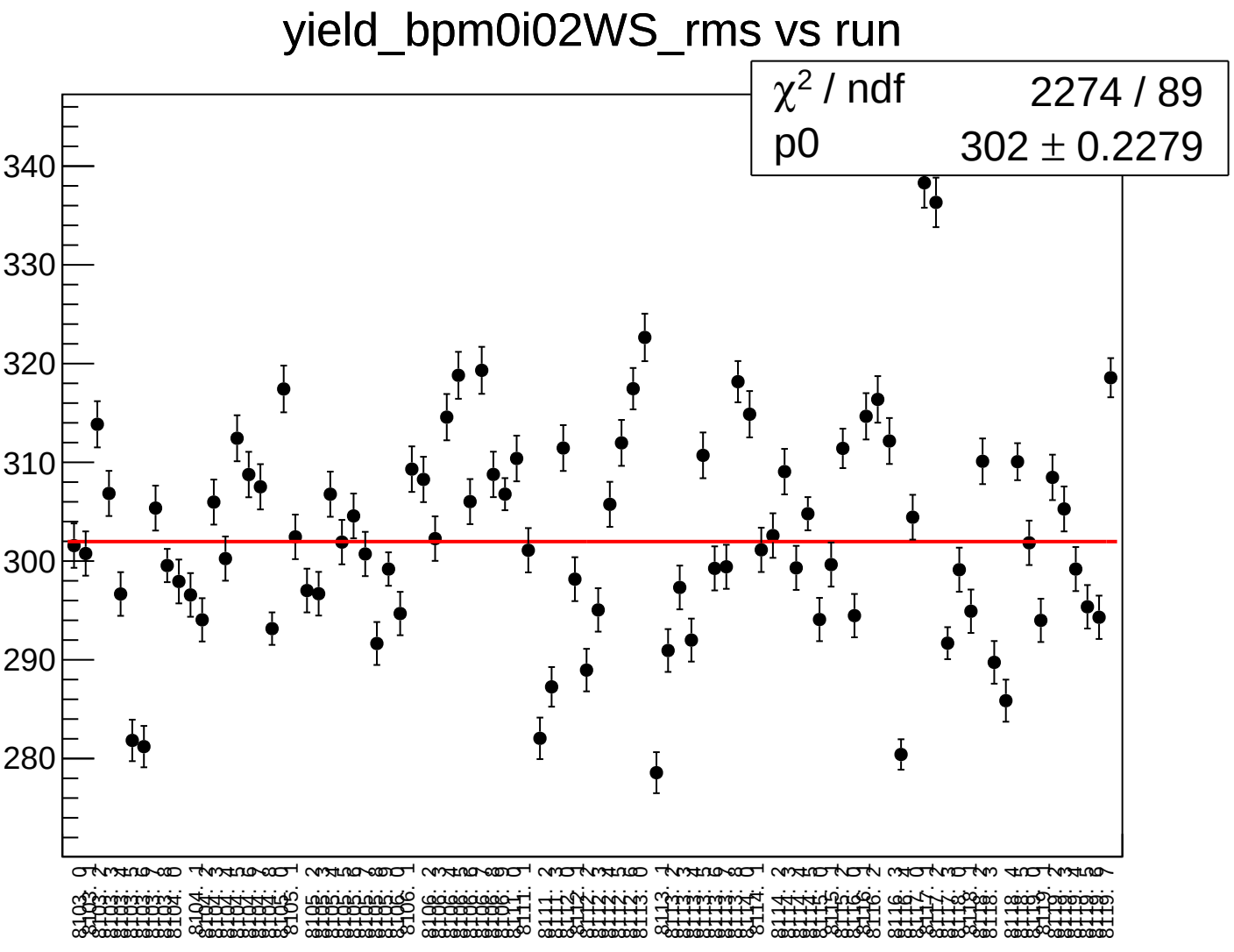

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.237e+05 / 89
p0 1.279e+05 ± 0.5126
128.8
128.6
128.4
128.2
128
127.8
127.6
pull
Entries 90
Mean 828.7
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

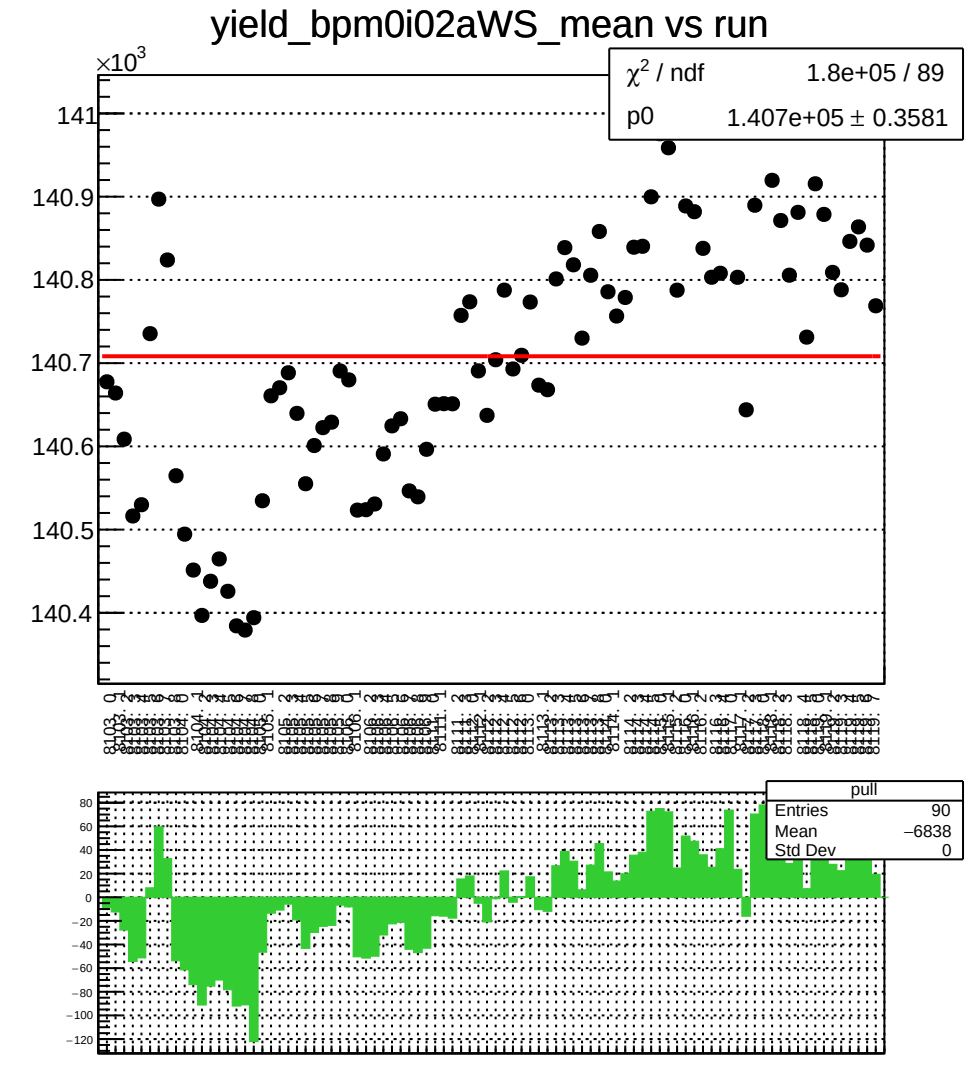

pull1D
Entries 90
Mean 2.921
Std Dev 3.168
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

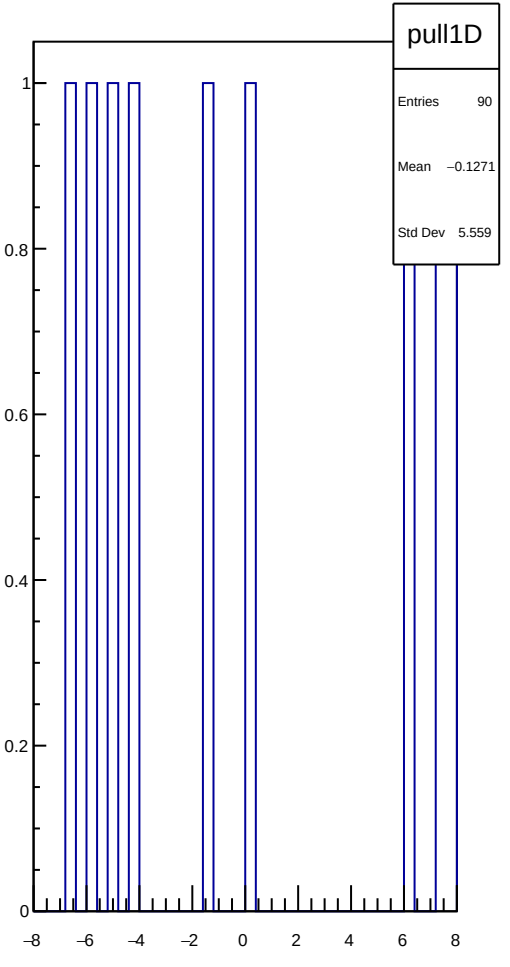

yield_bpm0r05WS_rms vs run
χ² / ndf 3574 / 89
p0 480.2 ± 0.3625
700
650
600
550
500
450

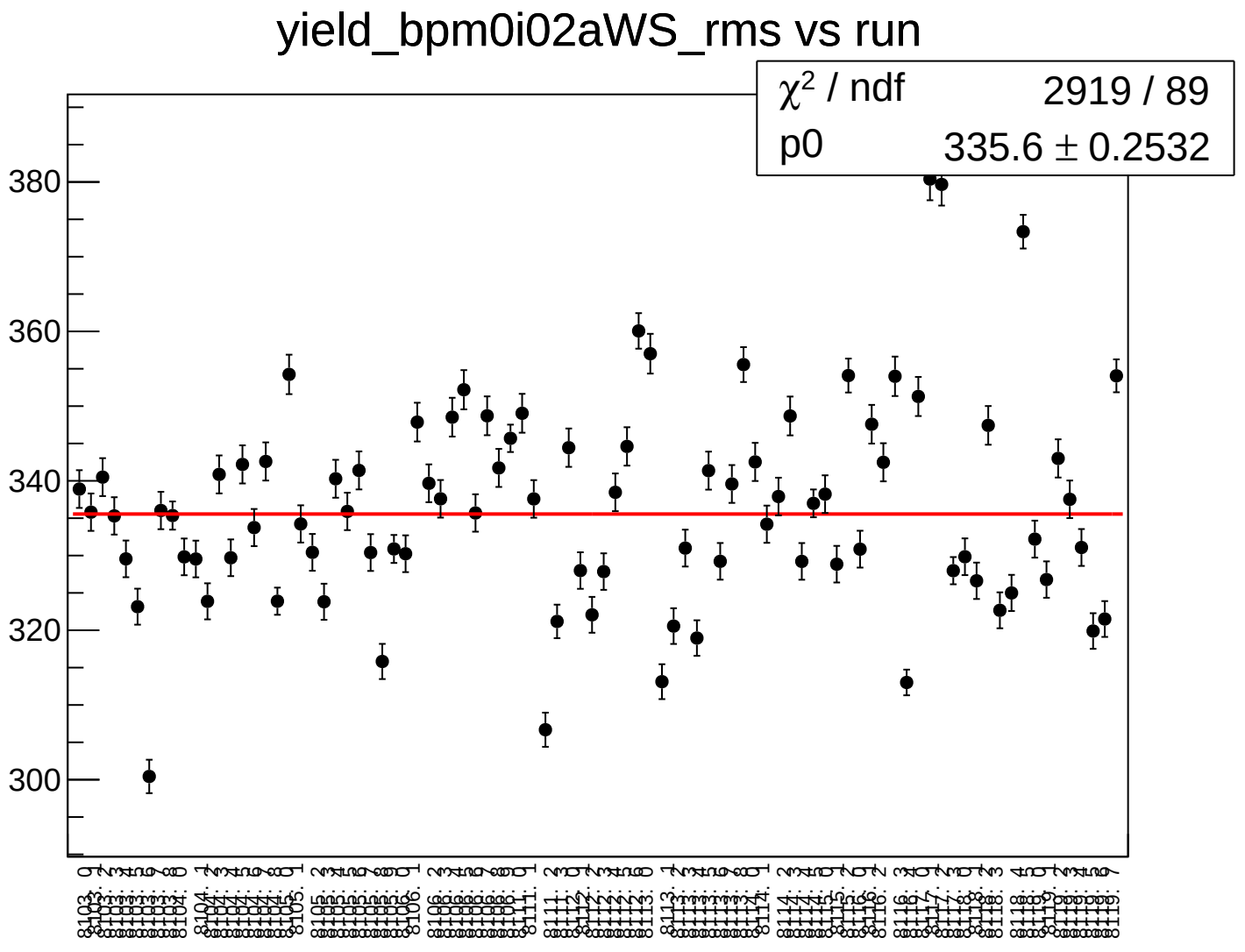

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.002e+05 / 89
p0 1.381e+05 ± 0.3222
138.3
138.25
138.2
138.15
138.1
138.05
138
137.95
137.9
137.85
pull
Entries 90
Mean −2953
Std Dev 0
60
40
20
0
−20
−40
−60
−80

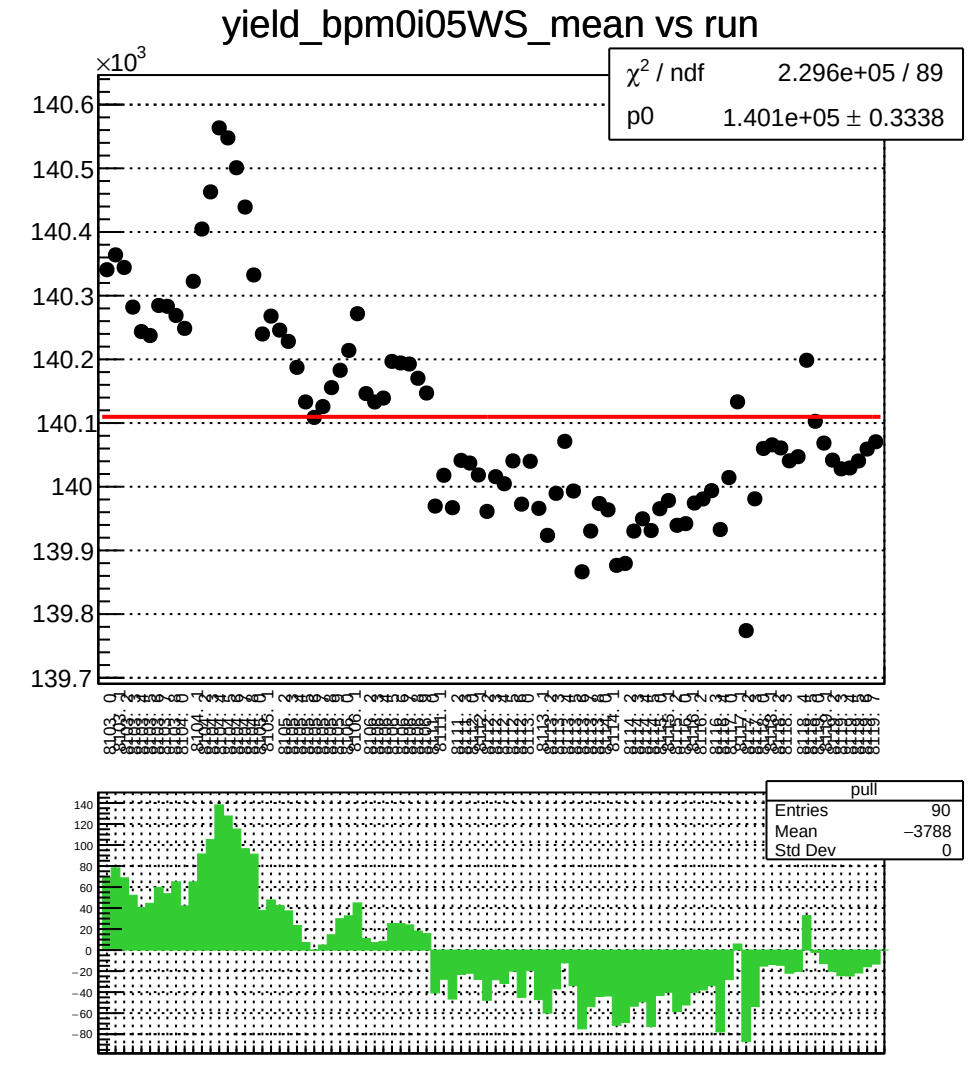

pull1D
Entries 90
Mean −0.5466
Std Dev 5.049
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

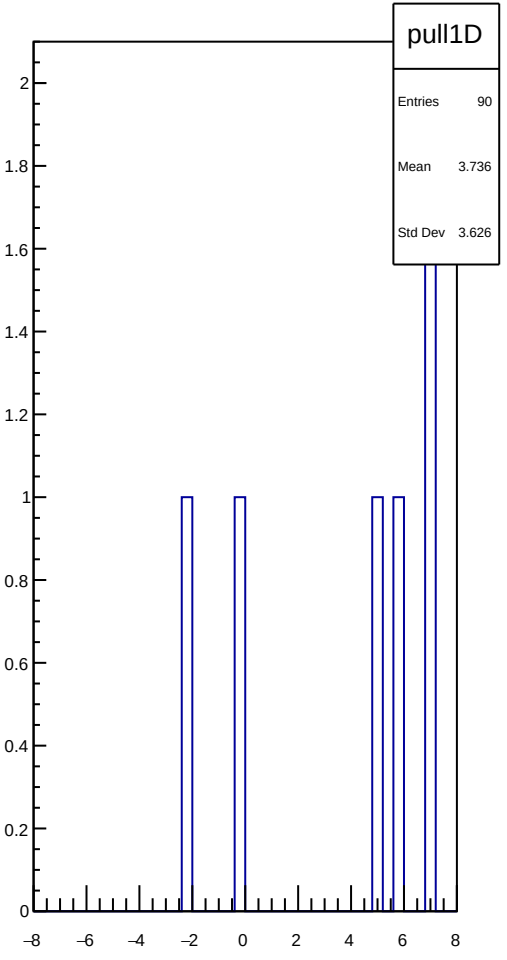

yield_bpm0i02WS_rms vs run
χ² / ndf 2274 / 89
p0 302 ± 0.2279
340
330
320
310
300
290
280

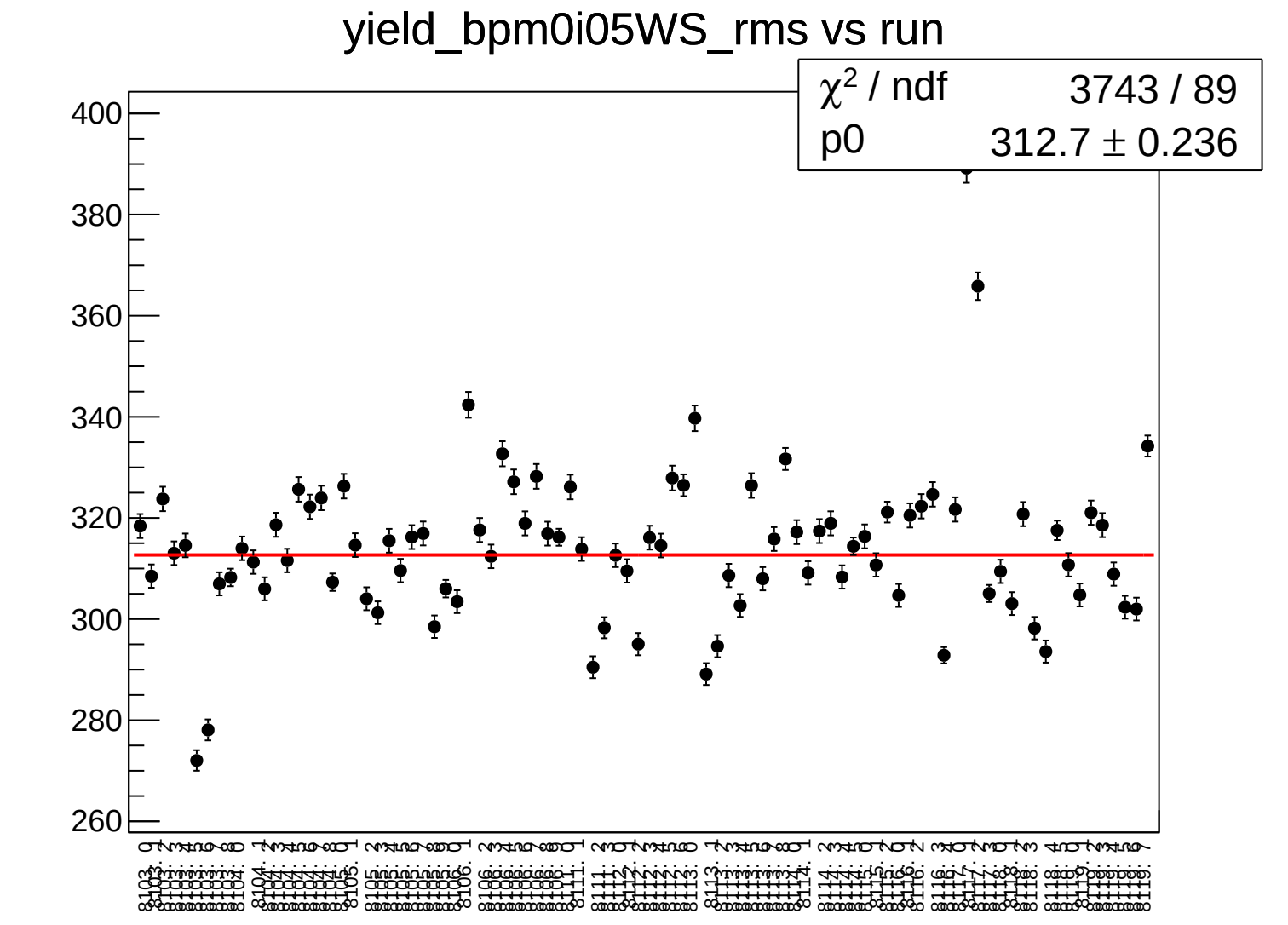

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.8e+05 / 89
p0 1.407e+05 ± 0.3581
141
140.9
140.8
140.7
140.6
140.5
140.4
pull
Entries 90
Mean −6838
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

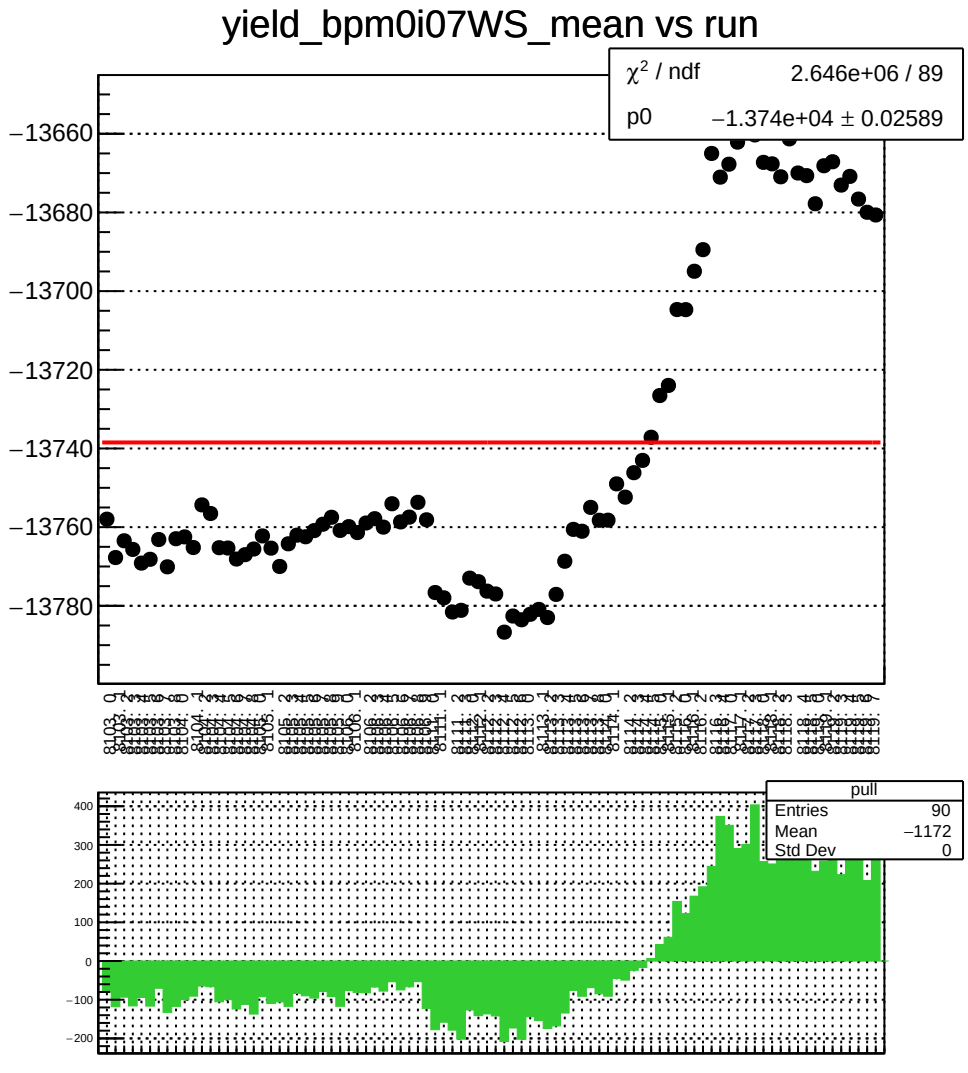

pull1D
Entries 90
Mean −0.1271
Std Dev 5.559
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

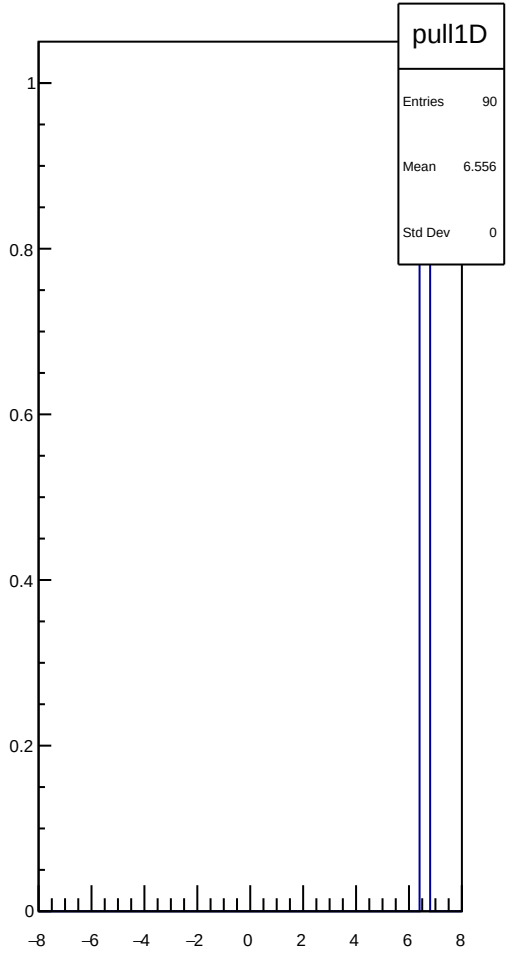

yield_bpm0i02aWS_rms vs run
χ² / ndf 2919 / 89
p0 335.6 ± 0.2532
380
360
340
320
300

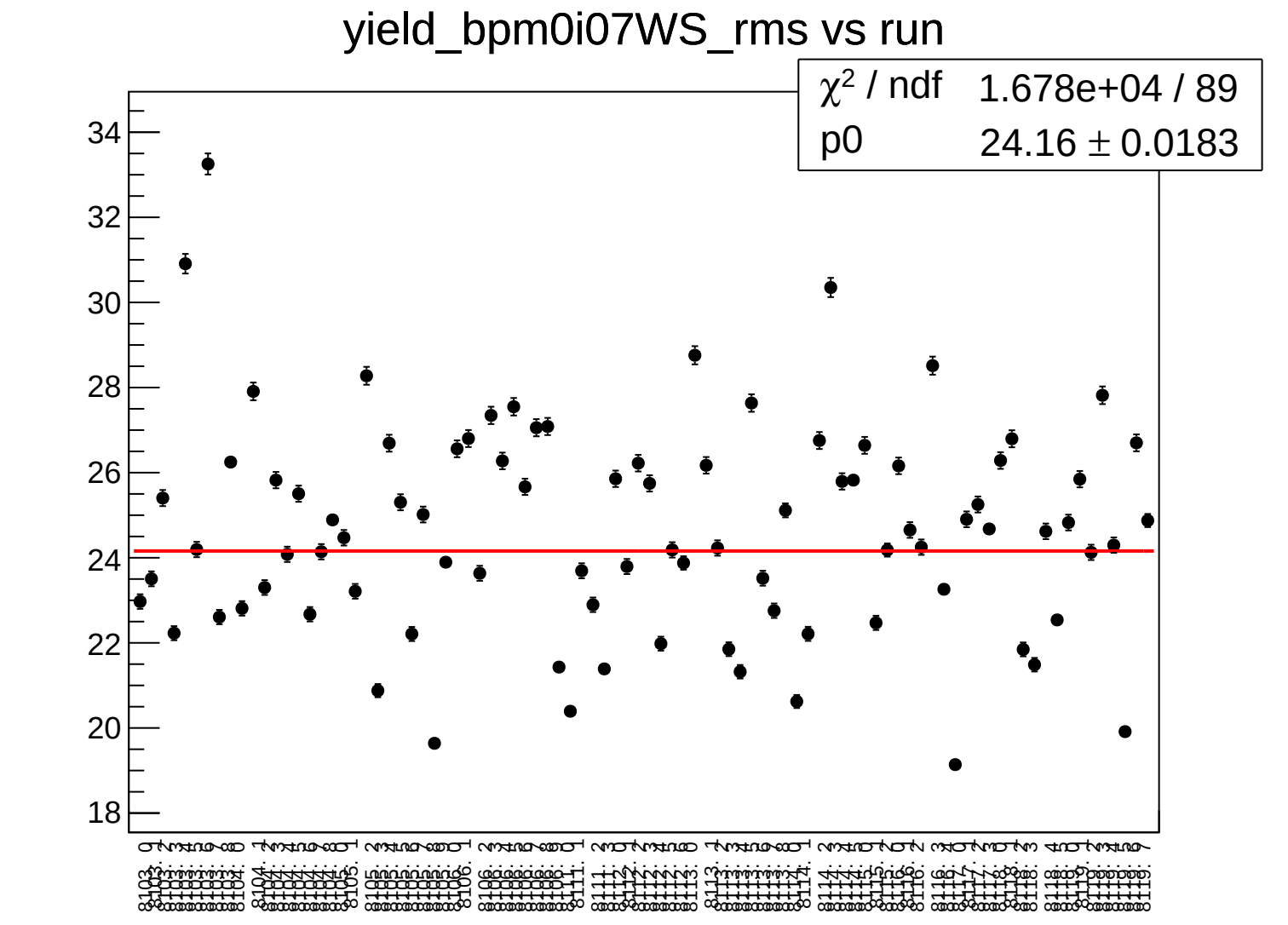

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 2.296e+05 / 89
p0 1.401e+05 ± 0.3338
140.6
140.5
140.4
140.3
140.2
140.1
140
139.9
139.8
139.7
pull
Entries 90
Mean −3788
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

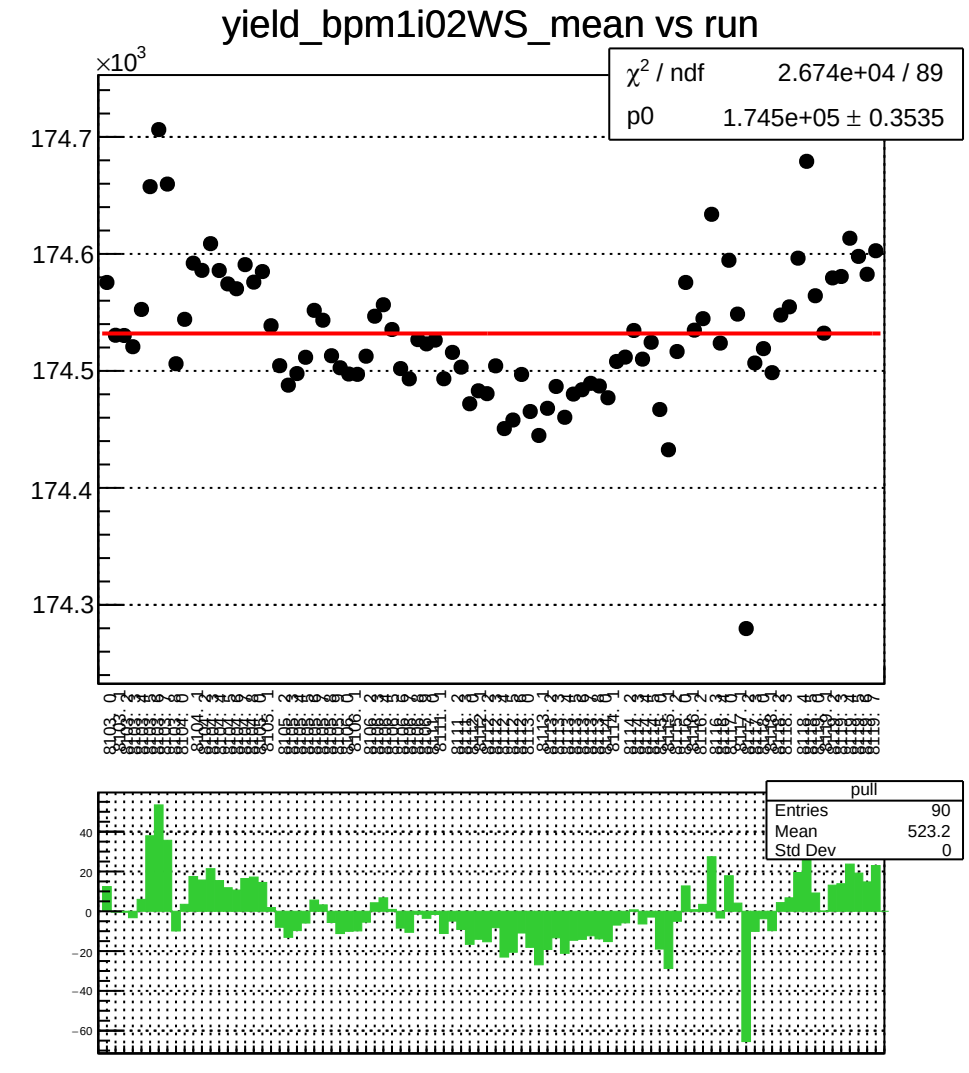

pull1D
Entries 90
Mean 3.736
Std Dev 3.626
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

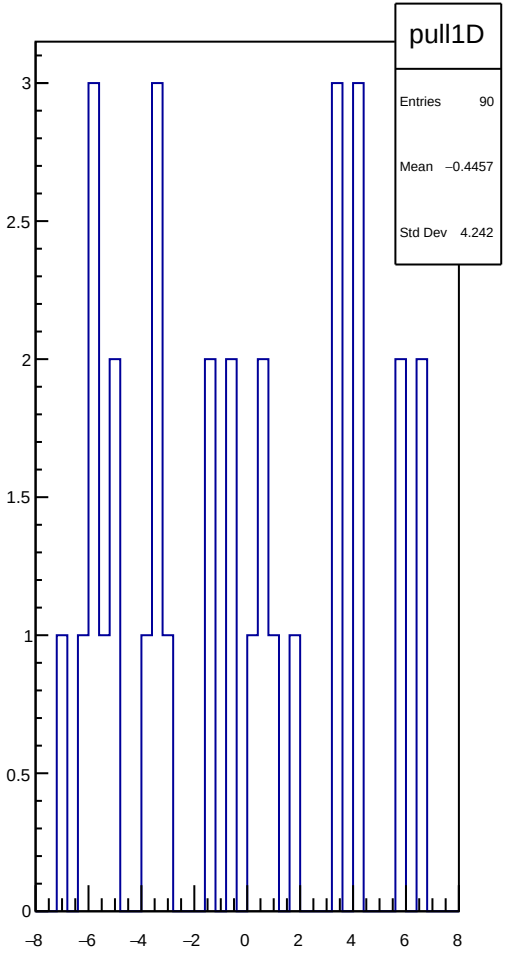

yield_bpm0i05WS_rms vs run
χ² / ndf 3743 / 89
p0 312.7 ± 0.236
400
380
360
340
320
300
280
260

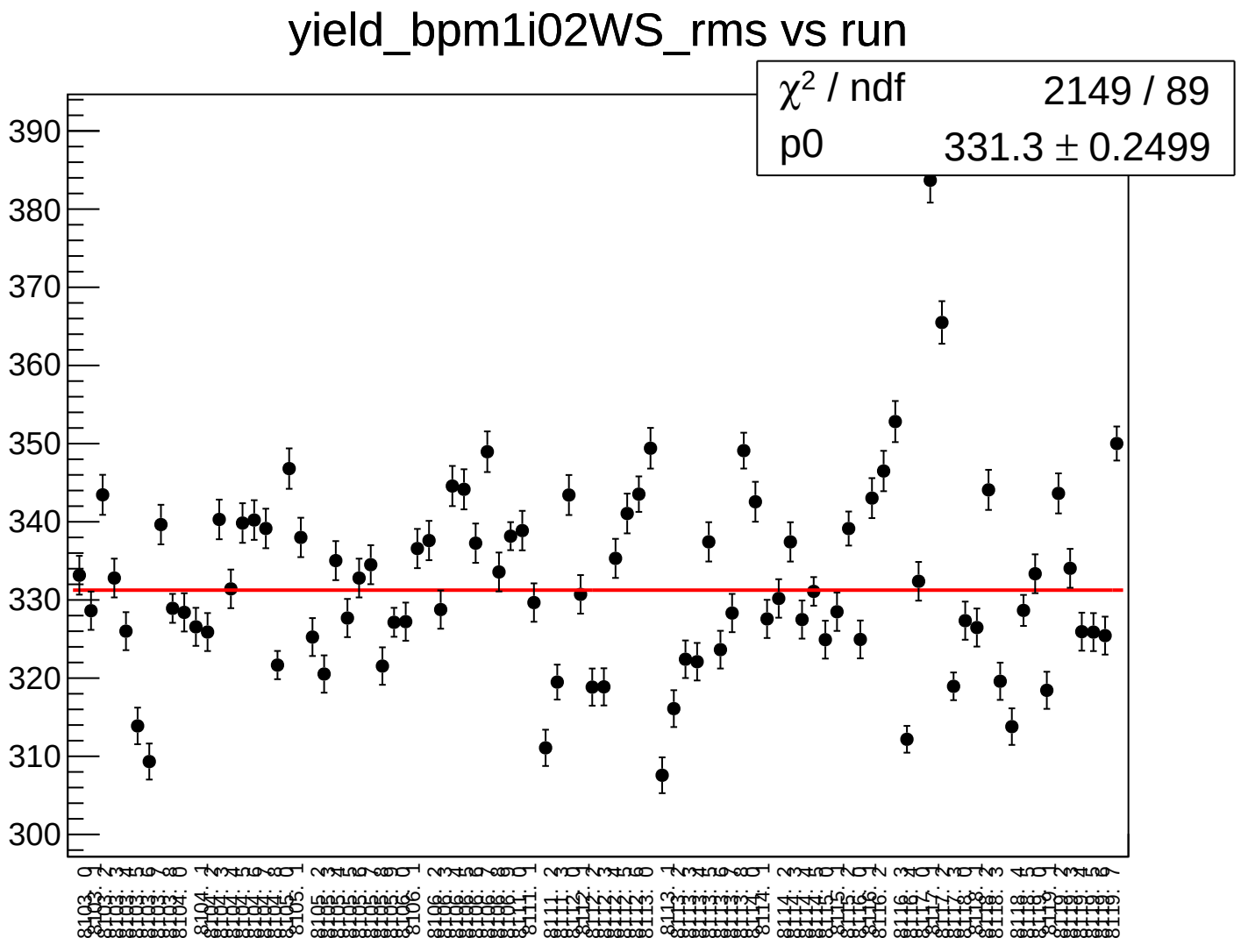

yield_bpm0i07WS_mean vs run
χ² / ndf 2.646e+06 / 89
p0 −1.374e+04 ± 0.02589
−13660
−13680
−13700
−13720
−13740
−13760
−13780
pull
Entries 90
Mean −1172
Std Dev 0
400
300
200
100
0
−100
−200

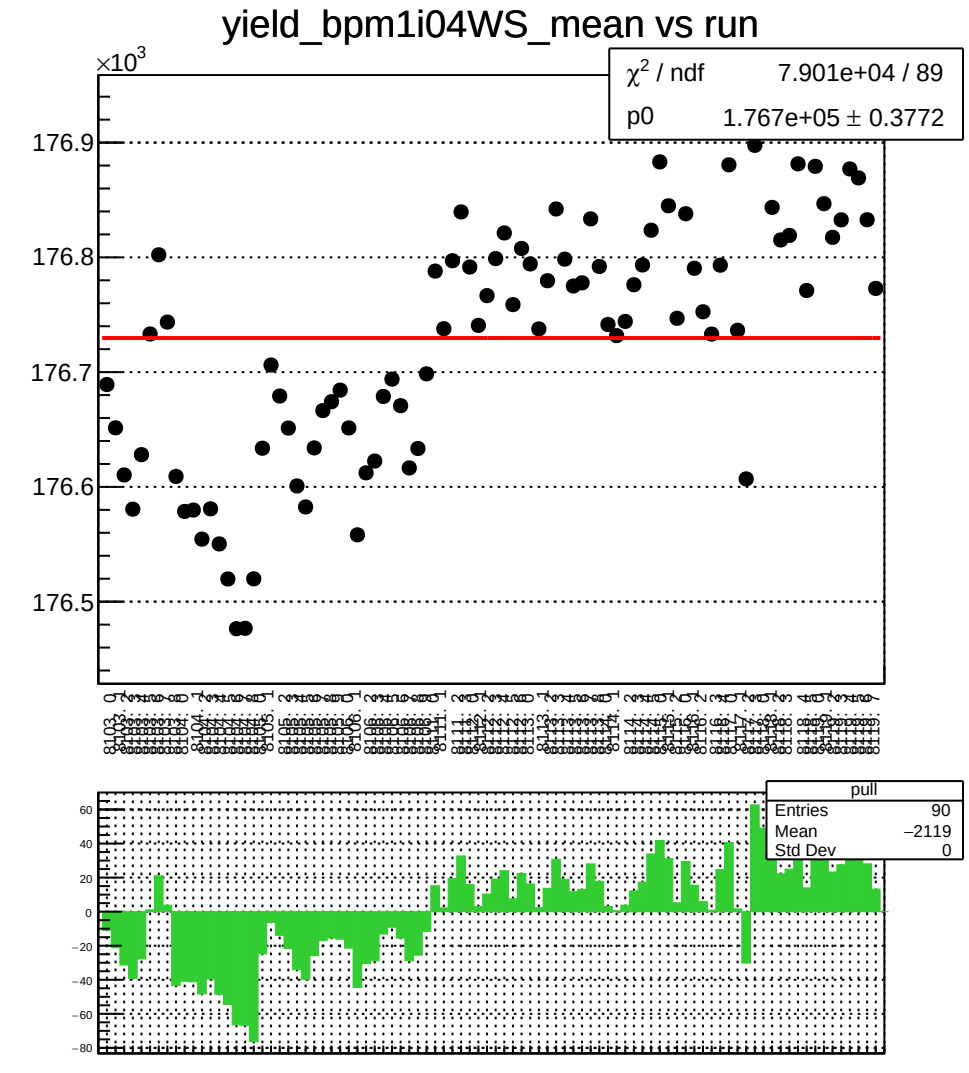

pull1D
Entries 90
Mean 6.556
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

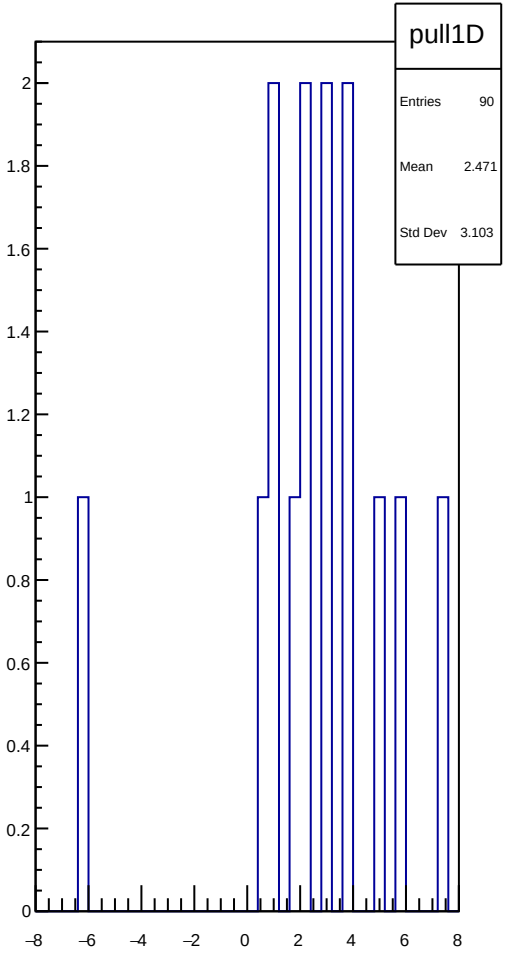

yield_bpm0i07WS_rms vs run
χ² / ndf 1.678e+04 / 89
p0 24.16 ± 0.0183
34
32
30
28
26
24
22
20
18

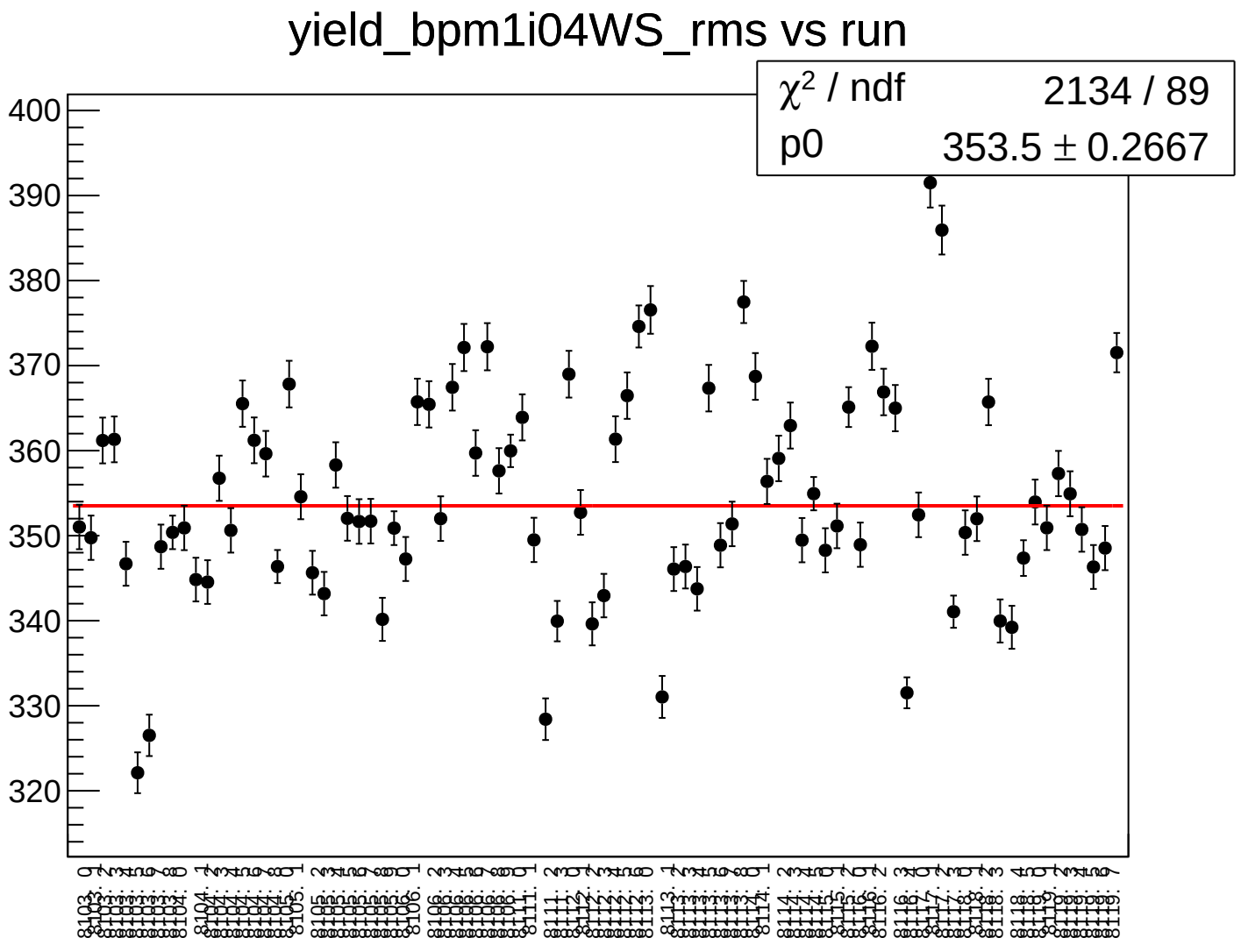

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.674e+04 / 89
p0 1.745e+05 ± 0.3535
174.7
174.6
174.5
174.4
174.3
pull
Entries 90
Mean 523.2
Std Dev 0
40
20
0
−20
−40
−60

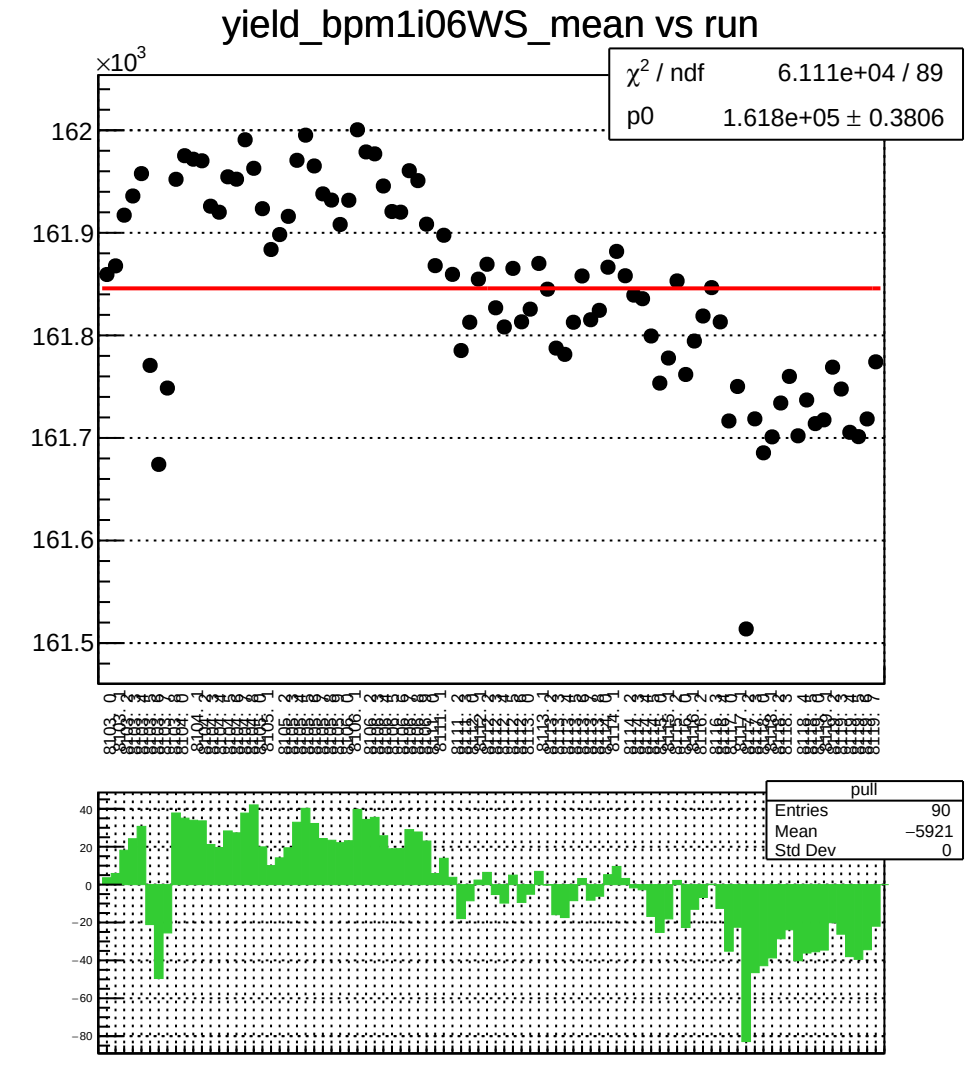

pull1D
Entries 90
Mean −0.4457
Std Dev 4.242
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

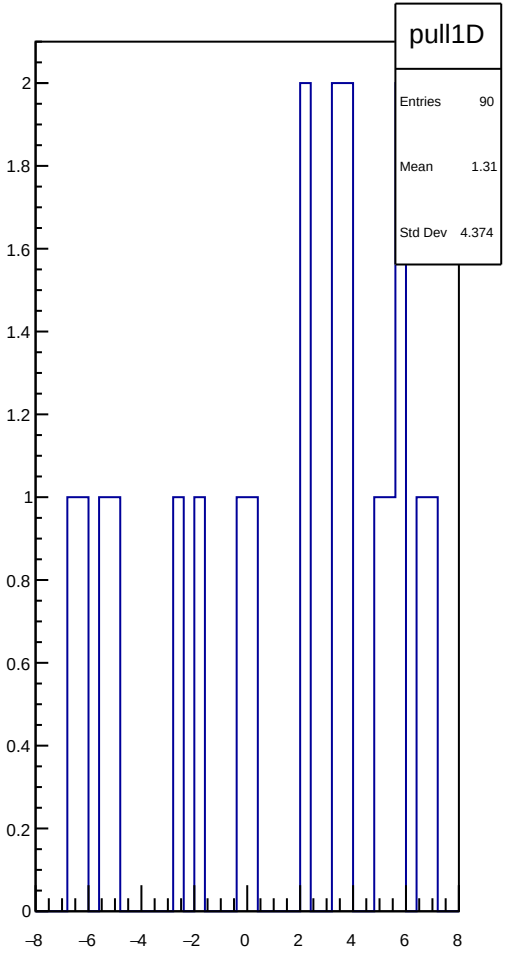

yield_bpm1i02WS_rms vs run
χ² / ndf 2149 / 89
p0 331.3 ± 0.2499
390
380
370
360
350
340
330
320
310
300

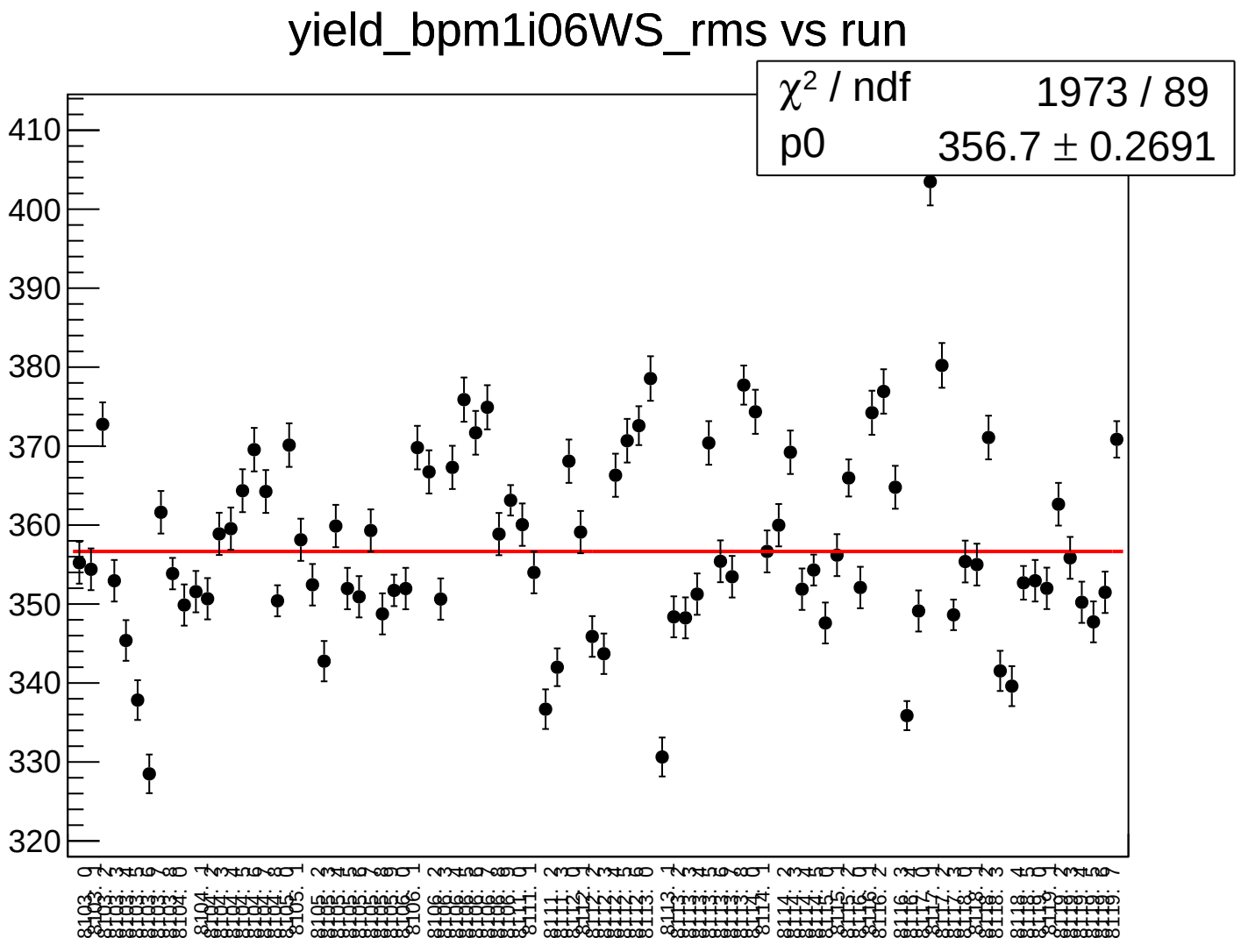

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 7.901e+04 / 89
p0 1.767e+05 ± 0.3772
176.9
176.8
176.7
176.6
176.5
pull
Entries 90
Mean −2119
Std Dev 0
60
40
20
0
−20
−40
−60
−80

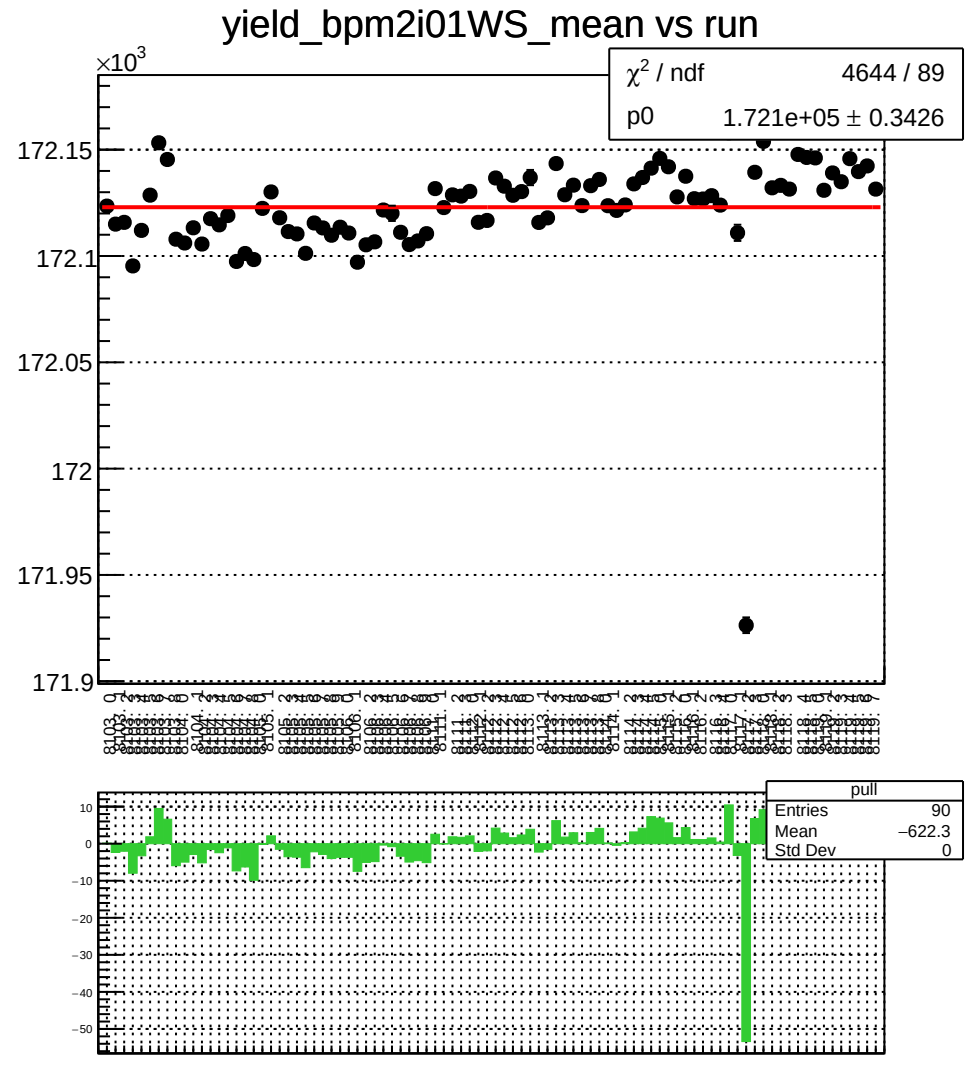

pull1D
Entries 90
Mean 2.471
Std Dev 3.103
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

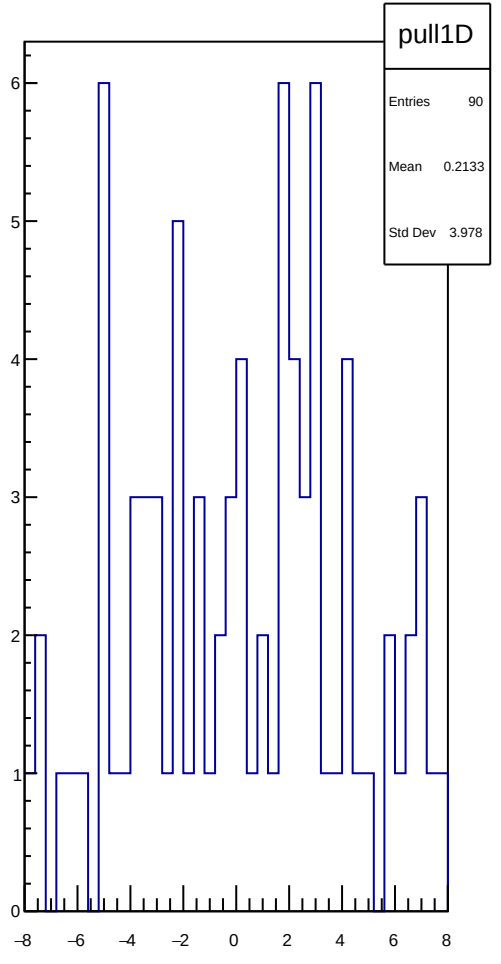

yield_bpm1i04WS_rms vs run
χ² / ndf 2134 / 89
p0 353.5 ± 0.2667
400
390
380
370
360
350
340
330
320

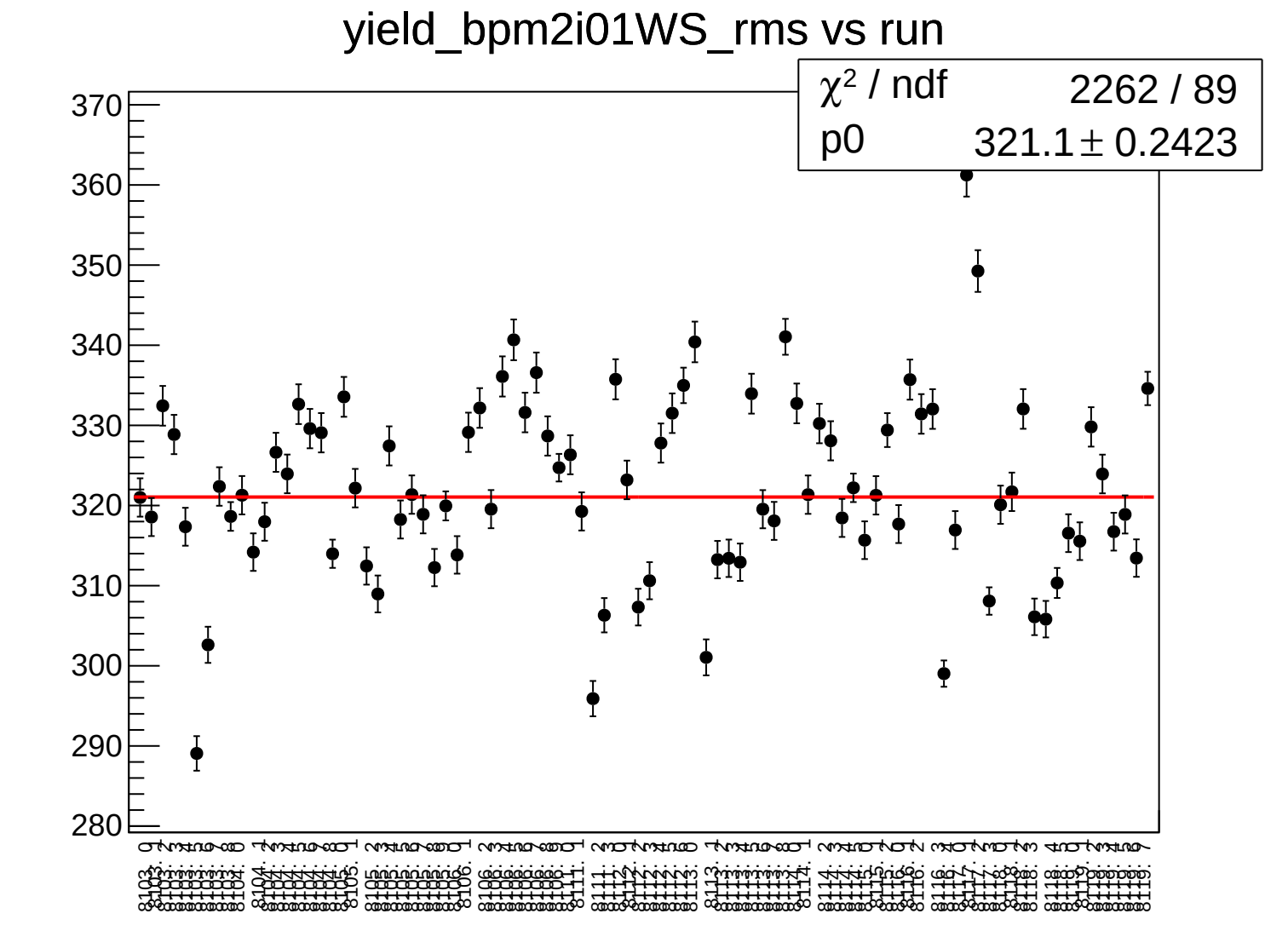

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 6.111e+04 / 89
p0 1.618e+05 ± 0.3806
162
161.9
161.8
161.7
161.6
161.5
pull
Entries 90
Mean −5921
Std Dev 0
40
20
0
−20
−40
−60
−80

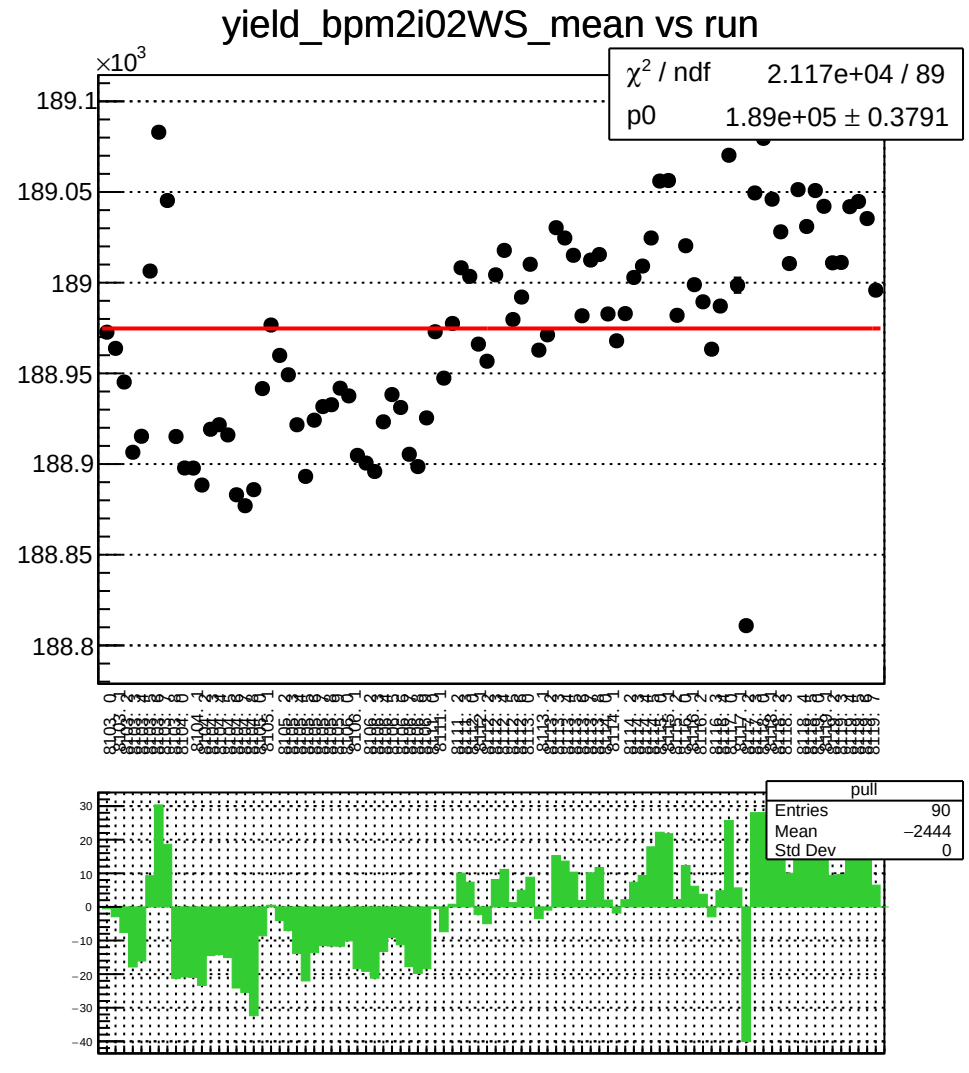

pull1D
Entries 90
Mean 1.31
Std Dev 4.374
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

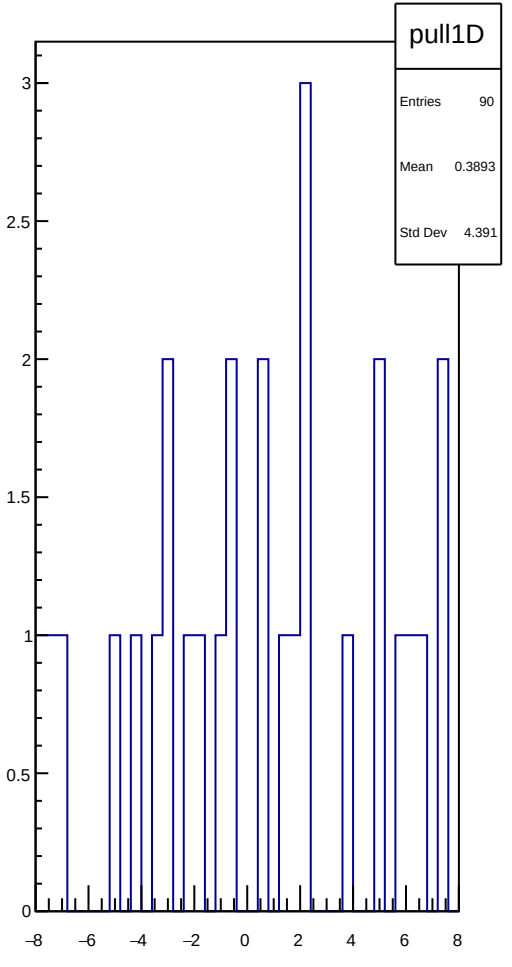

yield_bpm1i06WS_rms vs run
χ² / ndf 1973 / 89
p0 356.7 ± 0.2691
410
400
390
380
370
360
350
340
330
320

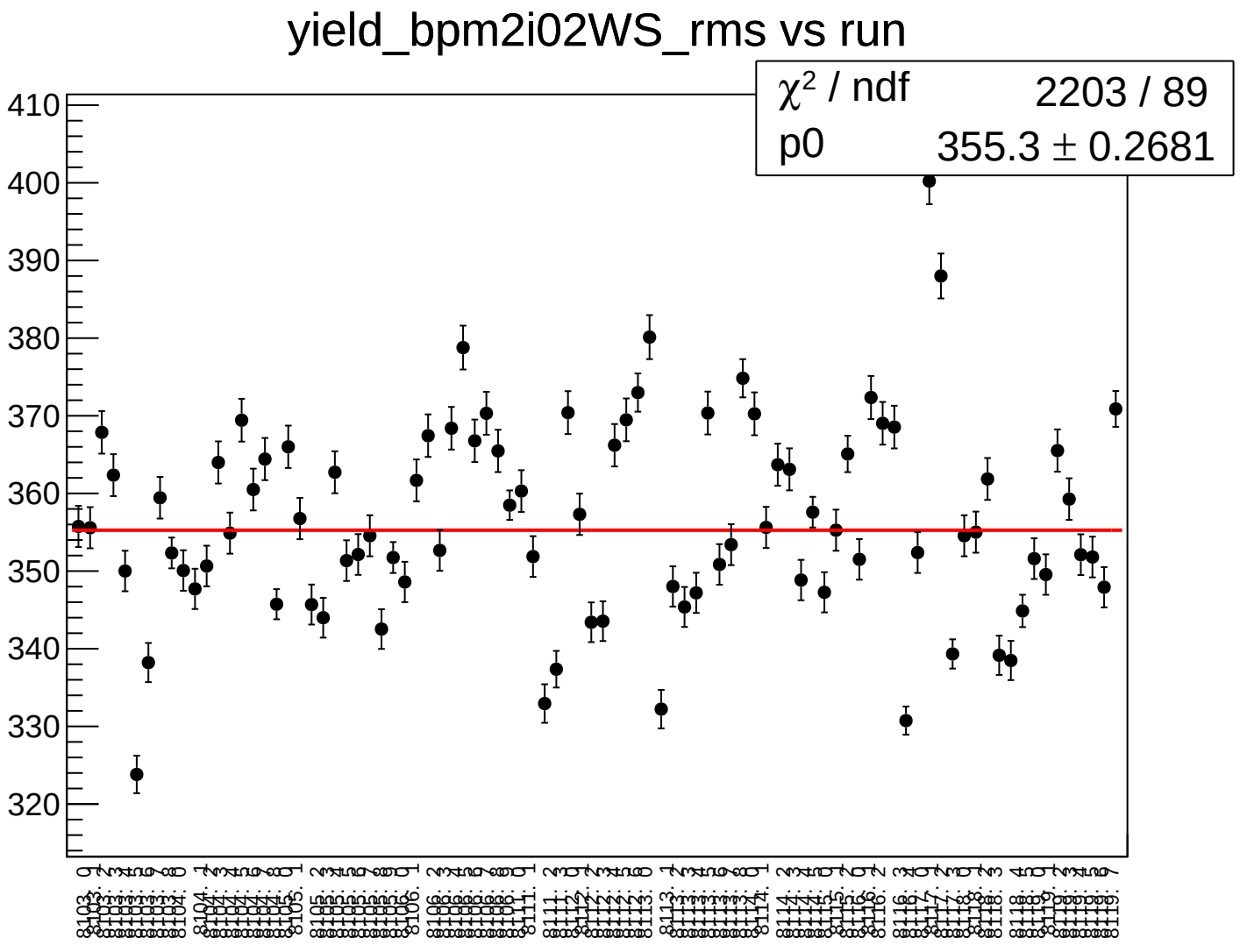

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4644 / 89
p0 1.721e+05 ± 0.3426
172.15
172.1
172.05
172
171.95
171.9
pull
Entries 90
Mean −622.3
Std Dev 0
10
0
−10
−20
−30
−40
−50

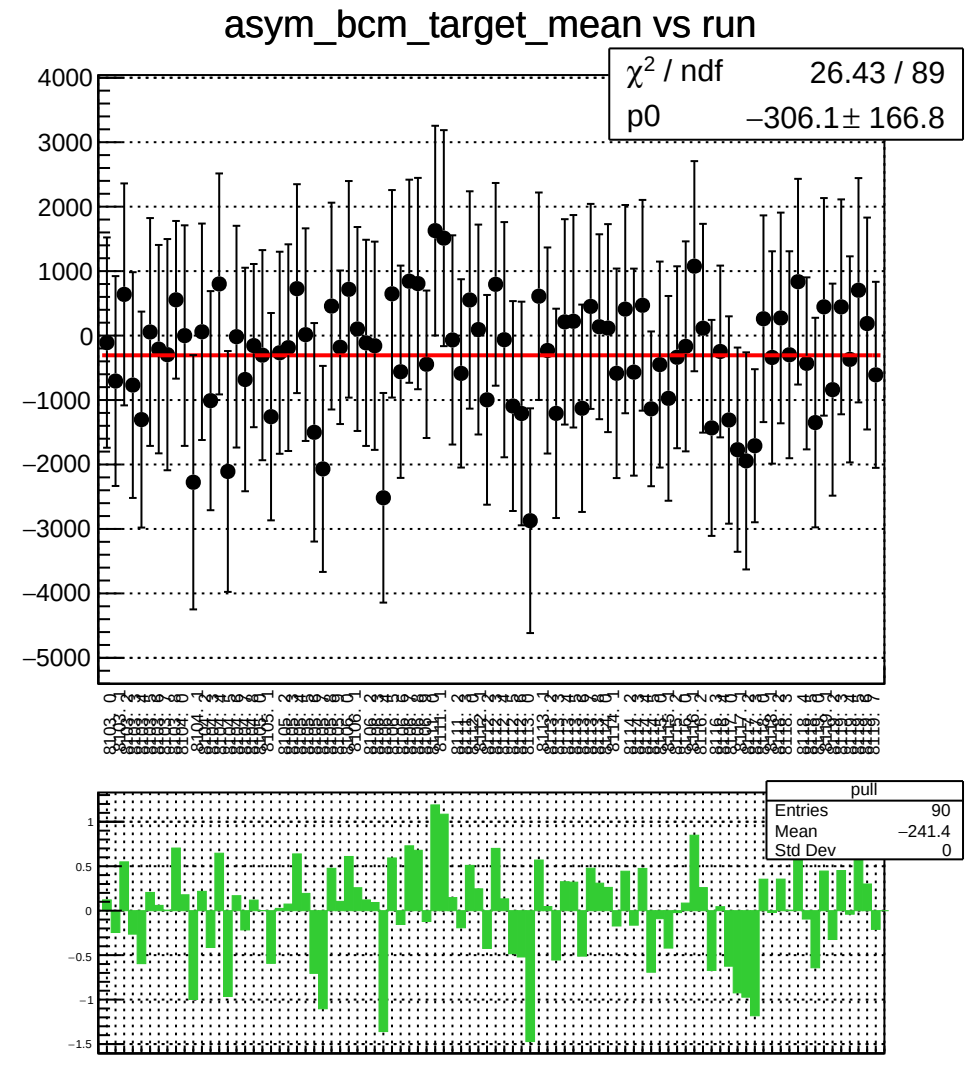

pull1D
Entries 90
Mean 0.2133
Std Dev 3.978
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

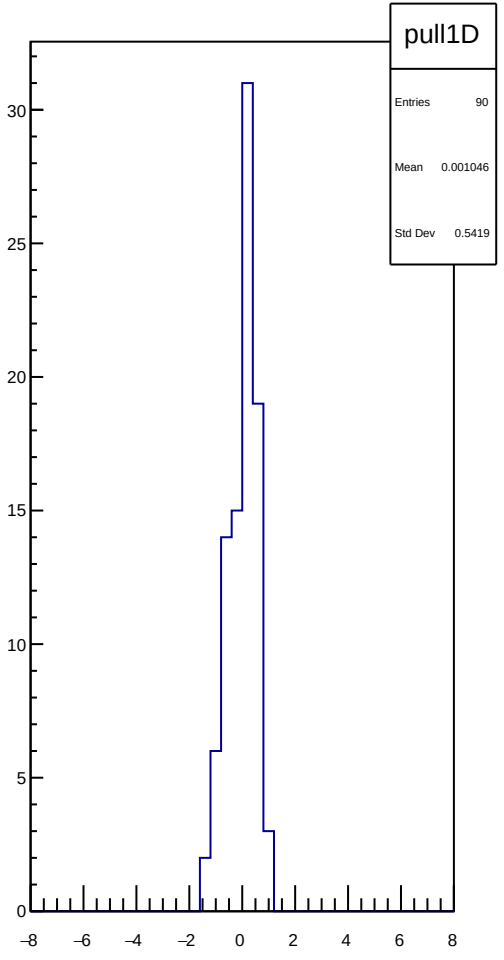

yield_bpm2i01WS_rms vs run
χ² / ndf 2262 / 89
p0 321.1 ± 0.2423
370
360
350
340
330
320
310
300
290
280

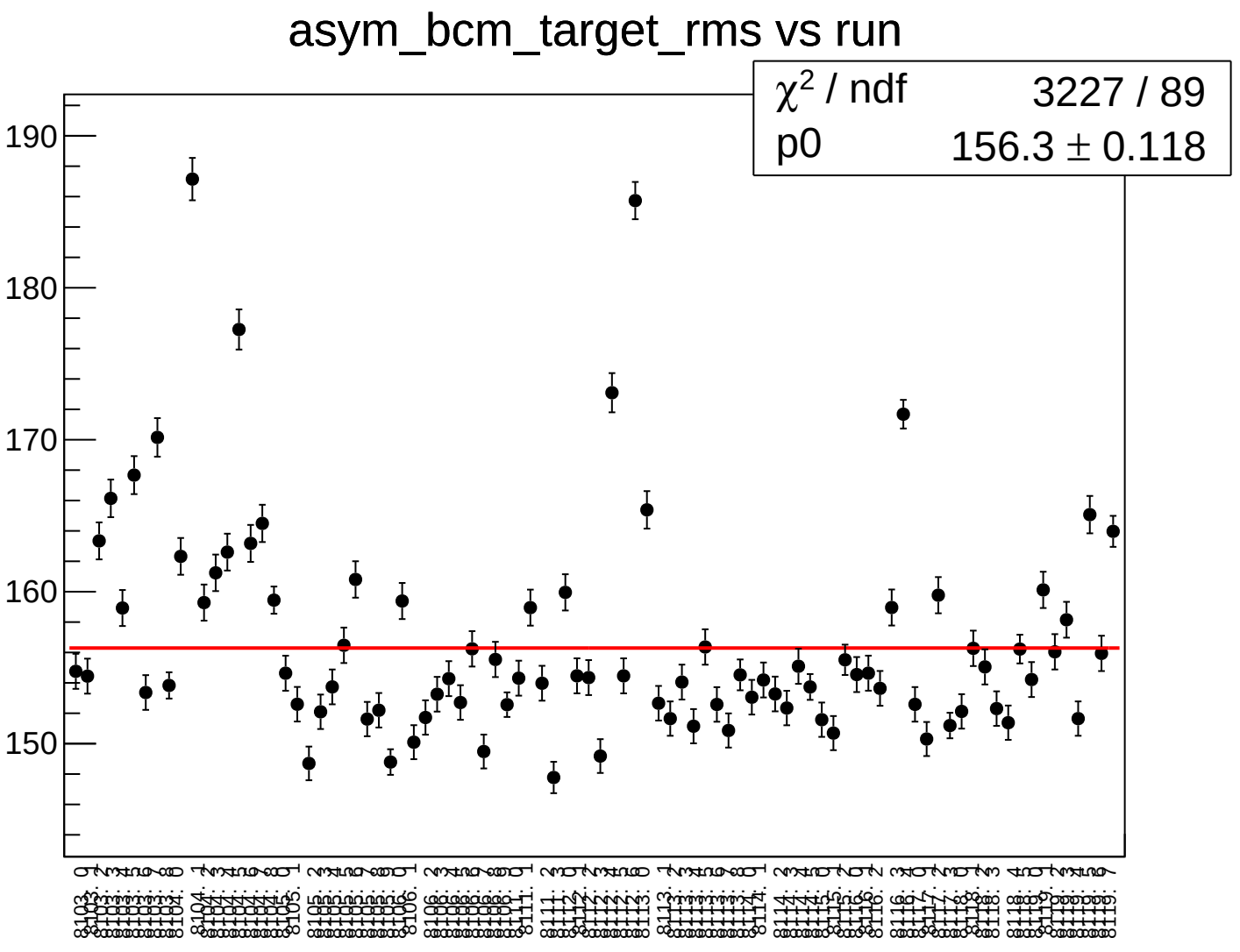

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 2.117e+04 / 89
p0 1.89e+05 ± 0.3791
189.1
189.05
189
188.95
188.9
188.85
188.8
pull
Entries 90
Mean −2444
Std Dev 0
30
20
10
0
−10
−20
−30
−40

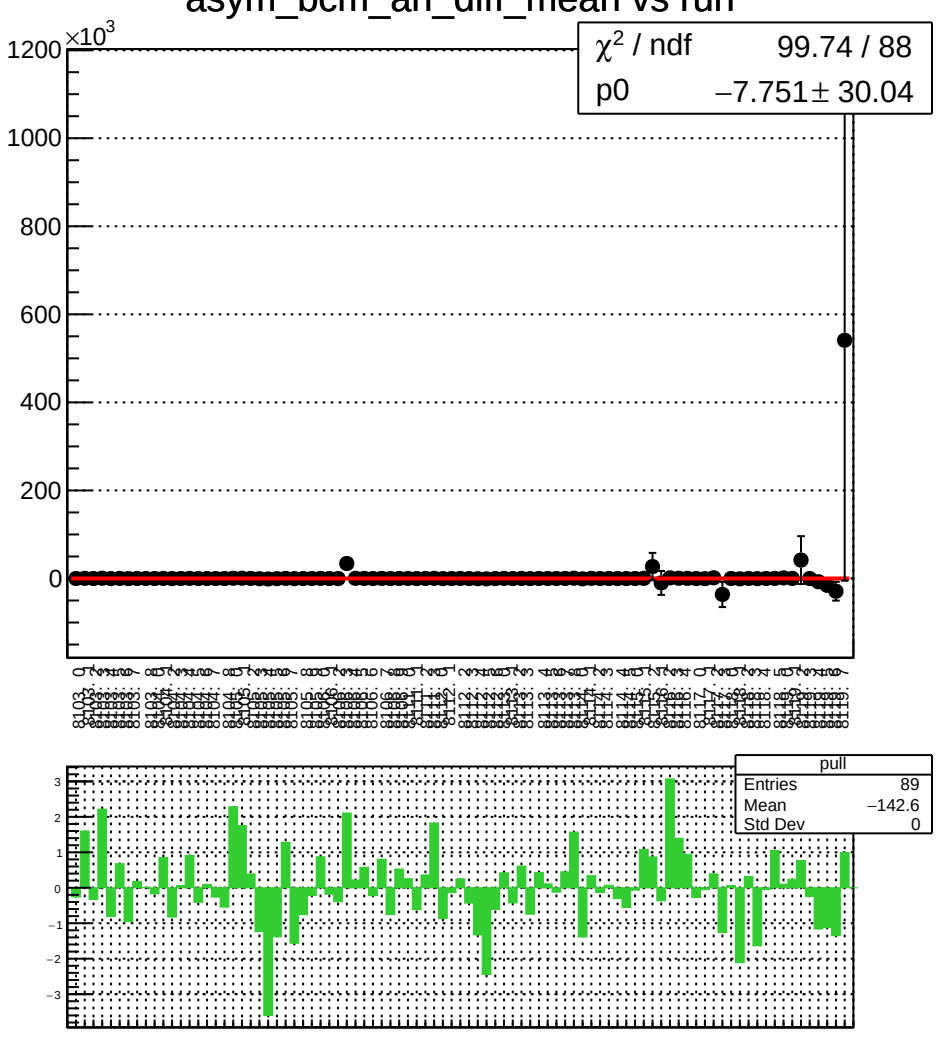

pull1D
Entries 90
Mean 0.3893
Std Dev 4.391
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

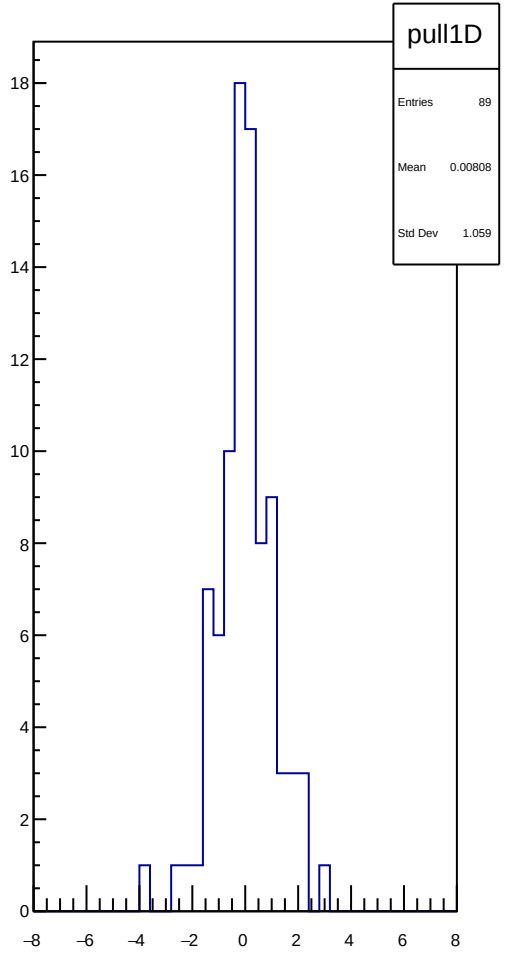

yield_bpm2i02WS_rms vs run
χ² / ndf 2203 / 89
p0 355.3 ± 0.2681
410
400
390
380
370
360
350
340
330
320

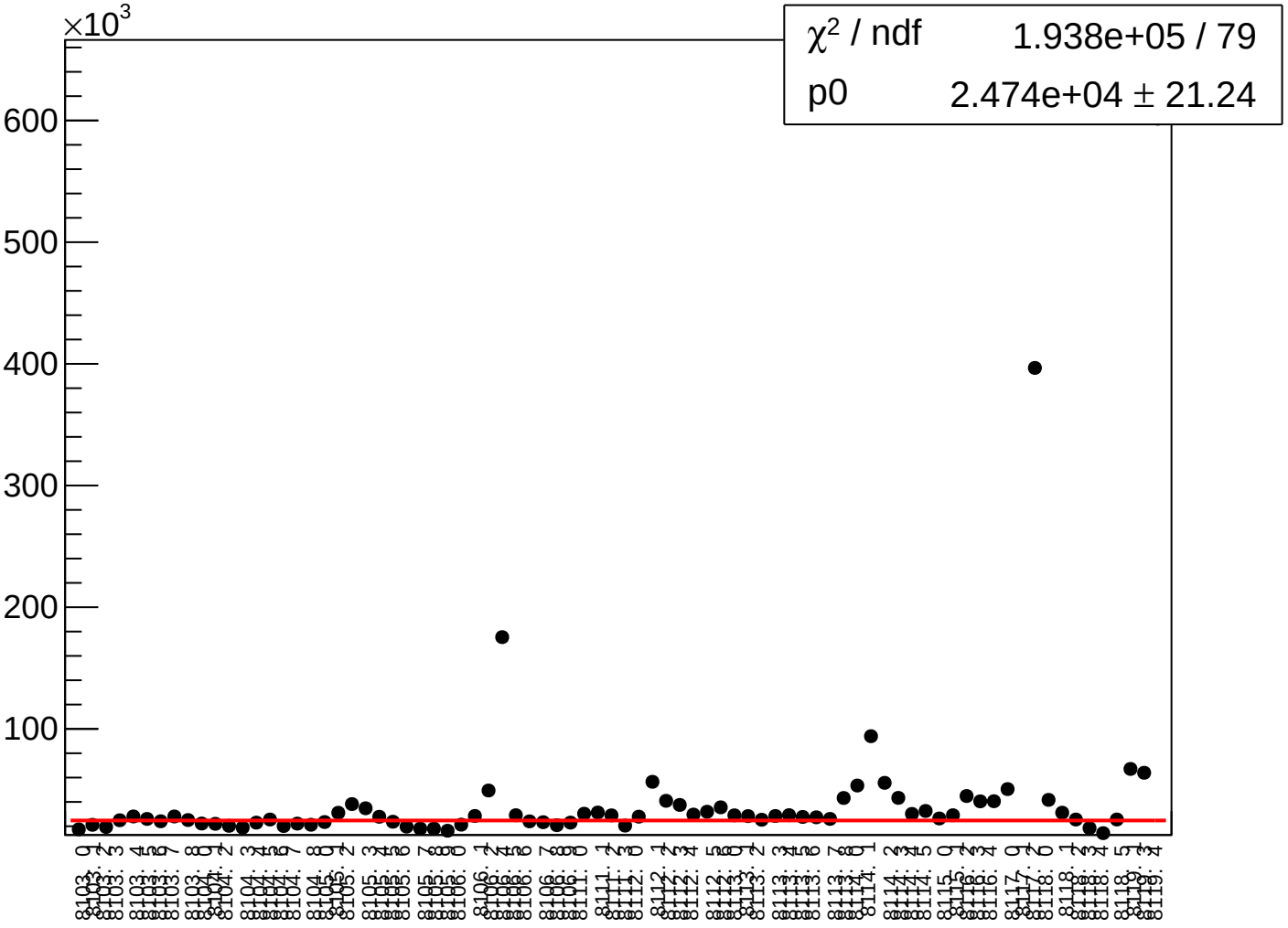

asym_bcm_target_mean vs run
χ² / ndf 26.43 / 89
p0 −306.1 ± 166.8
pull
Entries 90
Mean −241.4
Std Dev 0

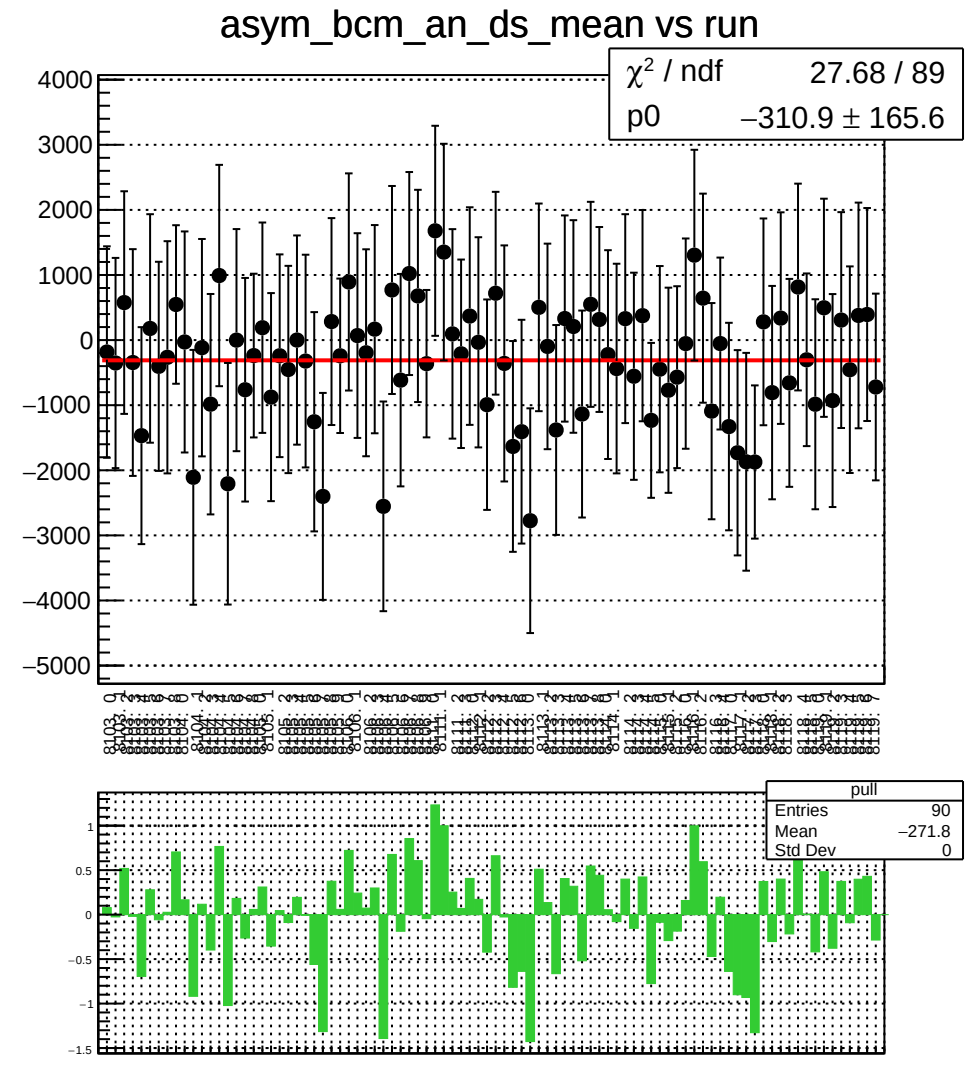

pull1D
Entries 90
Mean 0.001046
Std Dev 0.5419

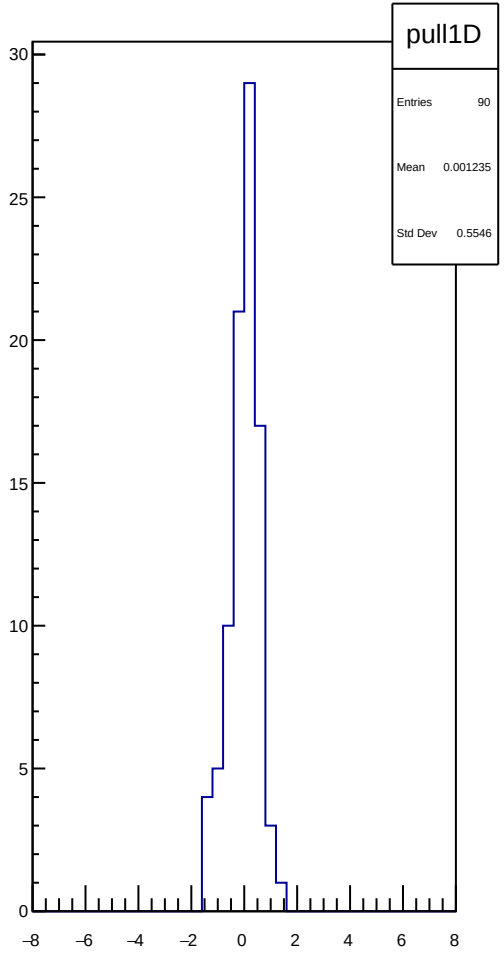

asym_bcm_target_rms vs run
χ^2 / ndf 3227 / 89
p0 156.3 ± 0.118
190
180
170
160
150

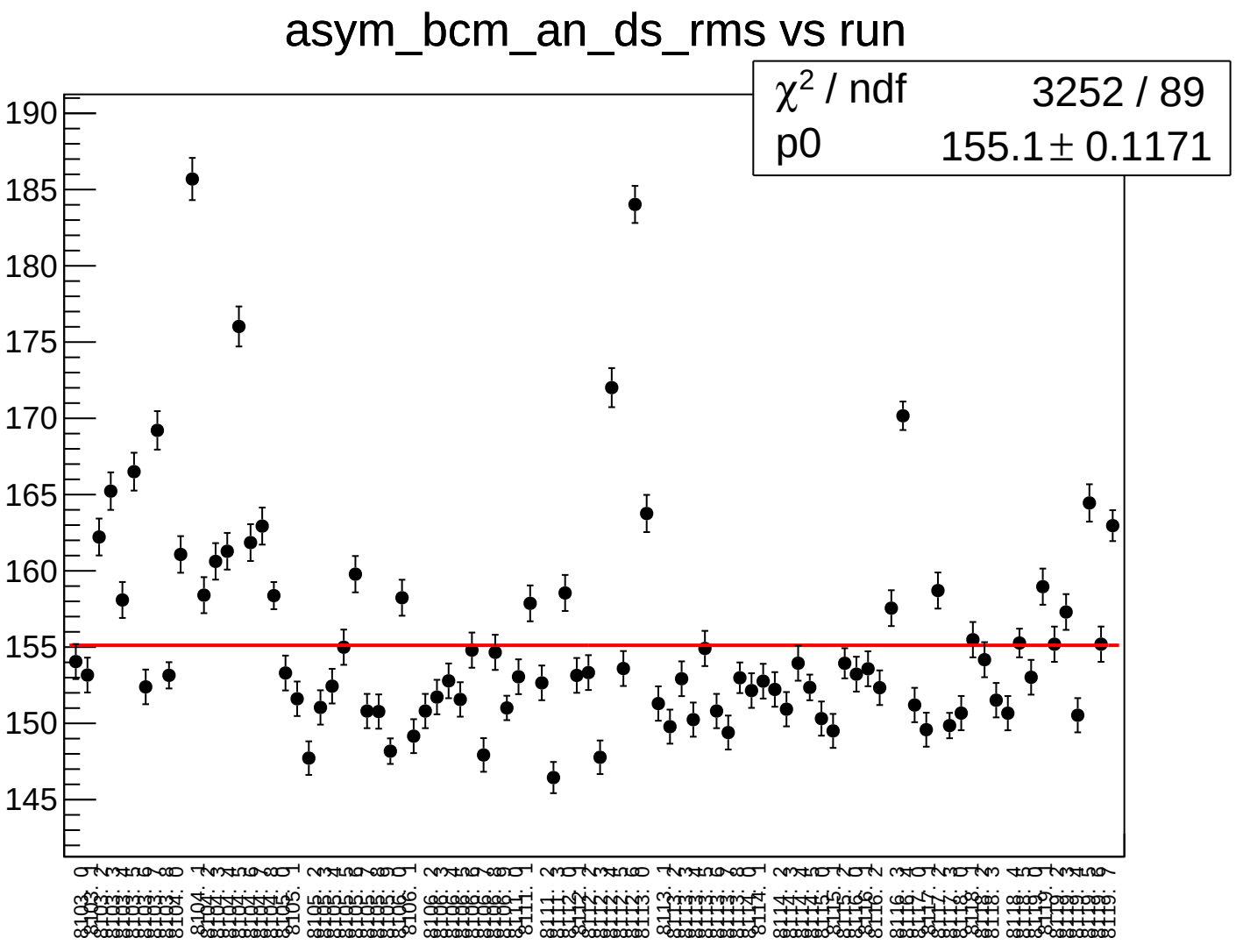

asym_bcm_an_diff_mean vs run
χ² / ndf 99.74 / 88
p0 −7.751 ± 30.04
×10³
1200
1000
800
600
400
200
0
pull
Entries 89
Mean −142.6
Std Dev 0
3
2
1
0
−1
−2
−3

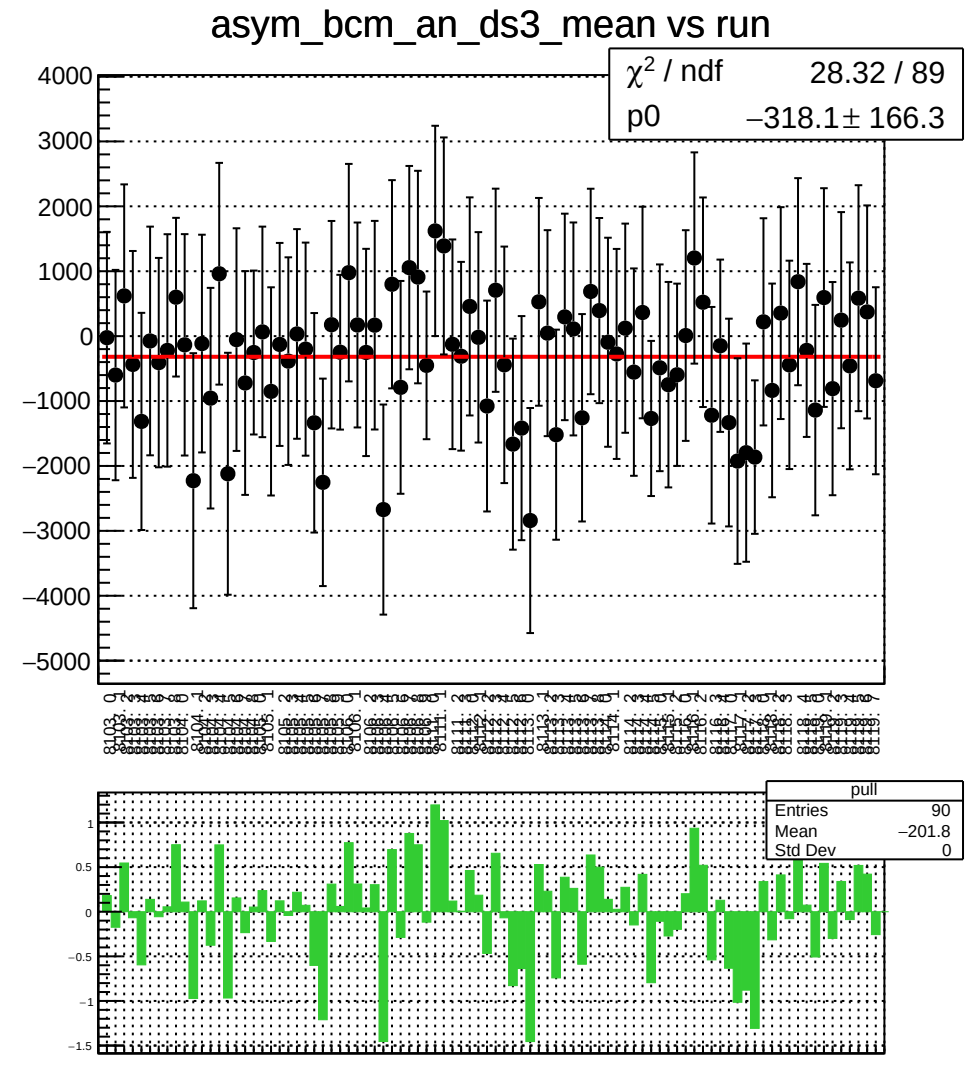

pull1D
Entries 89
Mean 0.00808
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

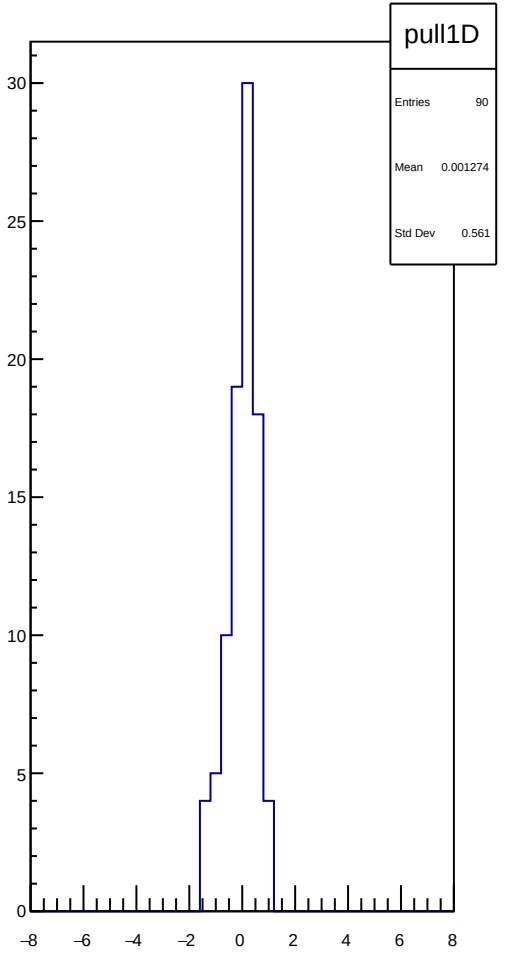

asym_bcm_an_diff_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 1.938e+05 / 79
p0 2.474e+04 ± 21.24

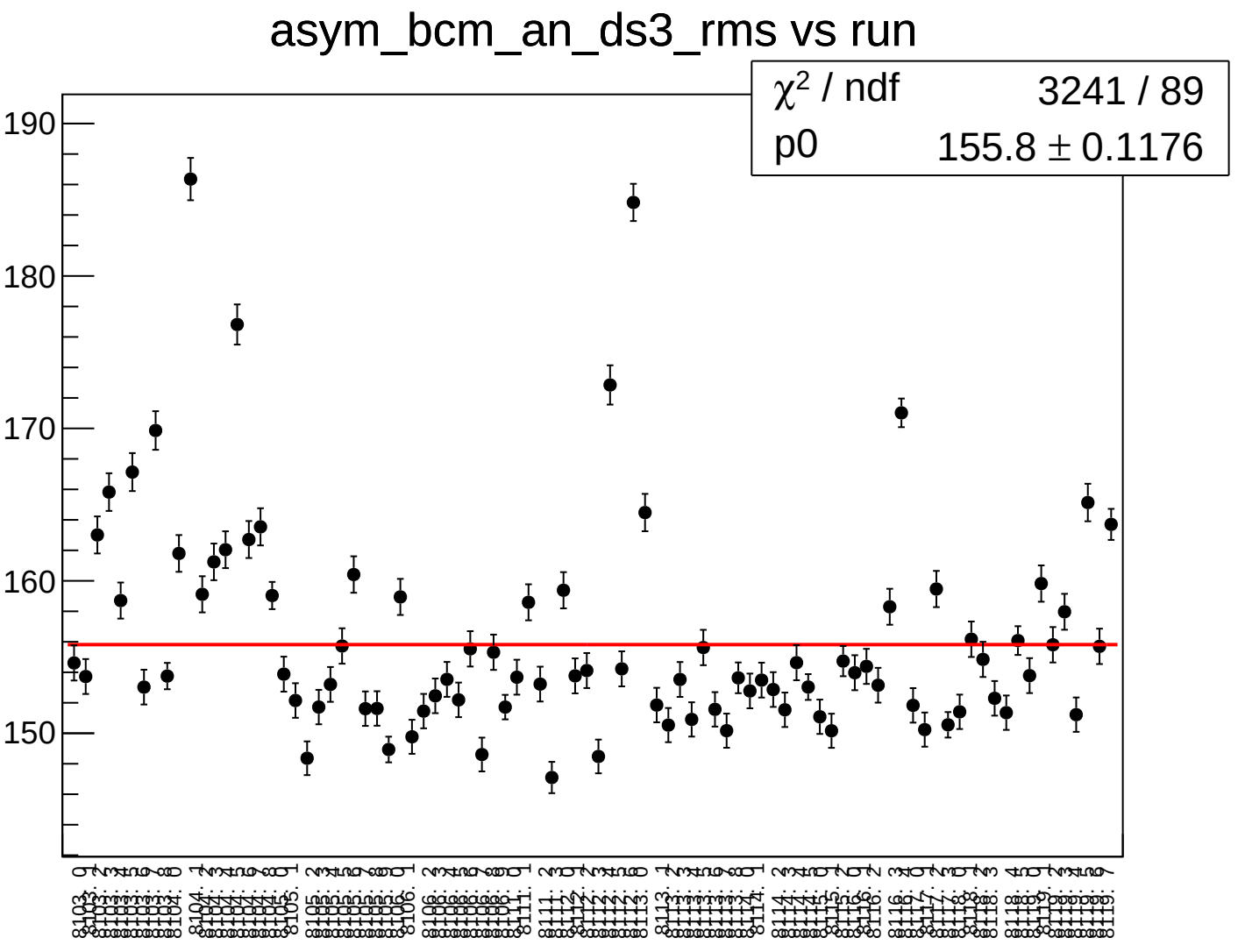

asym_bcm_an_ds_mean vs run
χ² / ndf 27.68 / 89
p0 −310.9 ± 165.6
pull
Entries 90
Mean −271.8
Std Dev 0

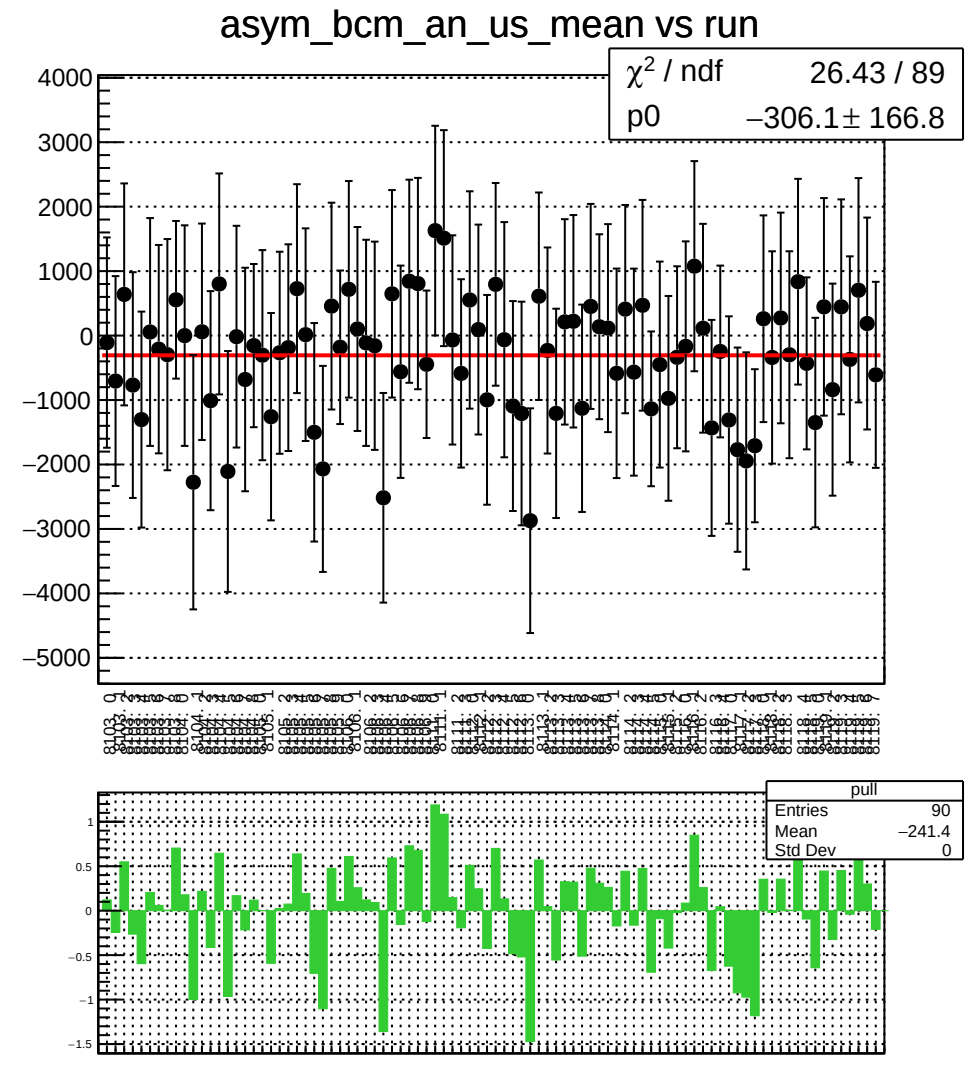

pull1D
Entries 90
Mean 0.001235
Std Dev 0.5546

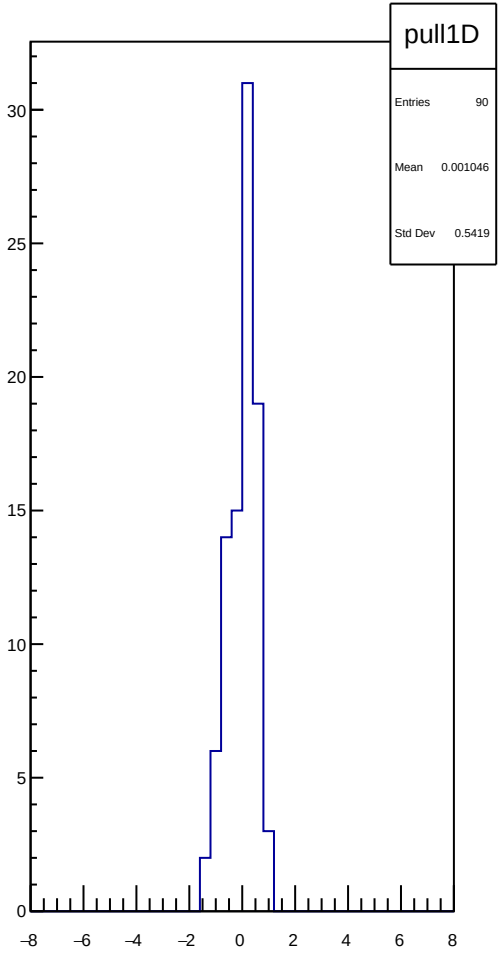

asym_bcm_an_ds_rms vs run
χ^2 / ndf 3252 / 89
p0 155.1 ± 0.1171
190
185
180
175
170
165
160
155
150
145

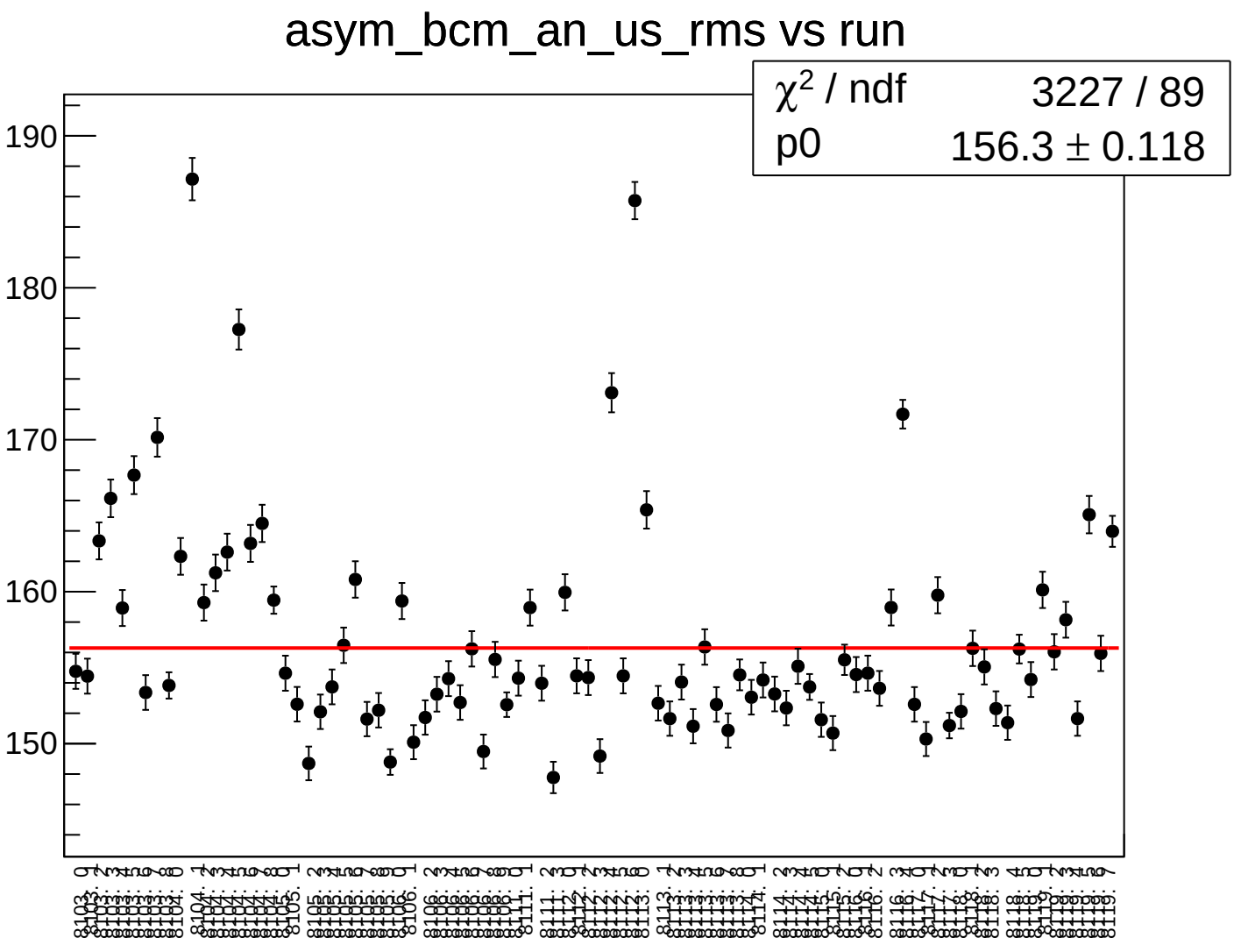

asym_bcm_an_ds3_mean vs run
χ² / ndf 28.32 / 89
p0 −318.1 ± 166.3
pull
Entries 90
Mean −201.8
Std Dev 0

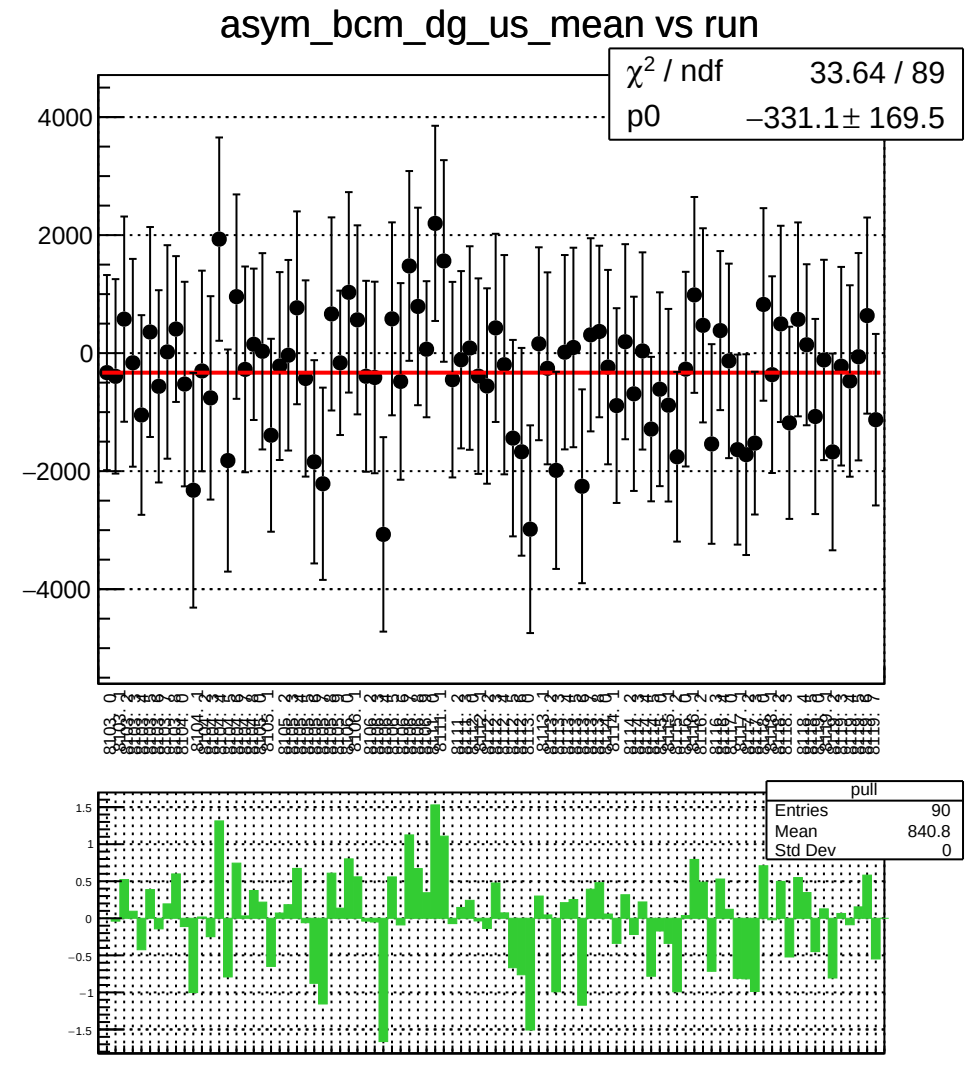

pull1D
Entries 90
Mean 0.001274
Std Dev 0.561

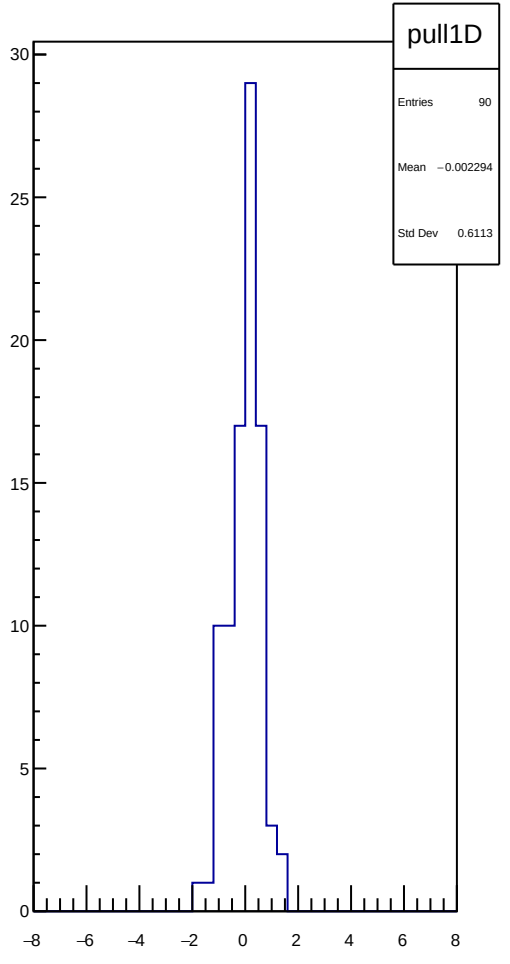

asym_bcm_an_ds3_rms vs run
χ² / ndf 3241 / 89
p0 155.8 ± 0.1176
190
180
170
160
150

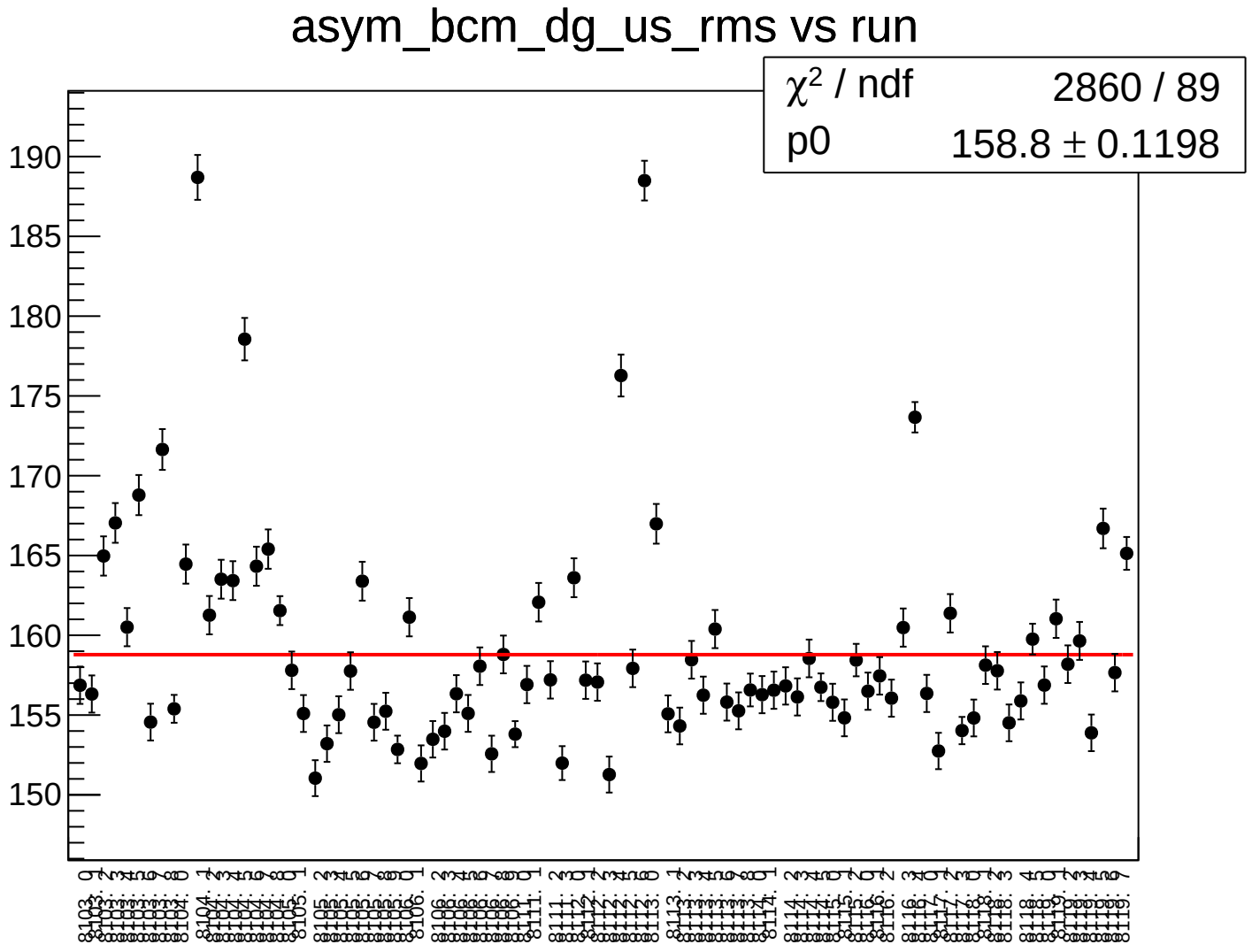

asym_bcm_an_us_mean vs run
χ² / ndf 26.43 / 89
p0 −306.1 ± 166.8
pull
Entries 90
Mean −241.4
Std Dev 0

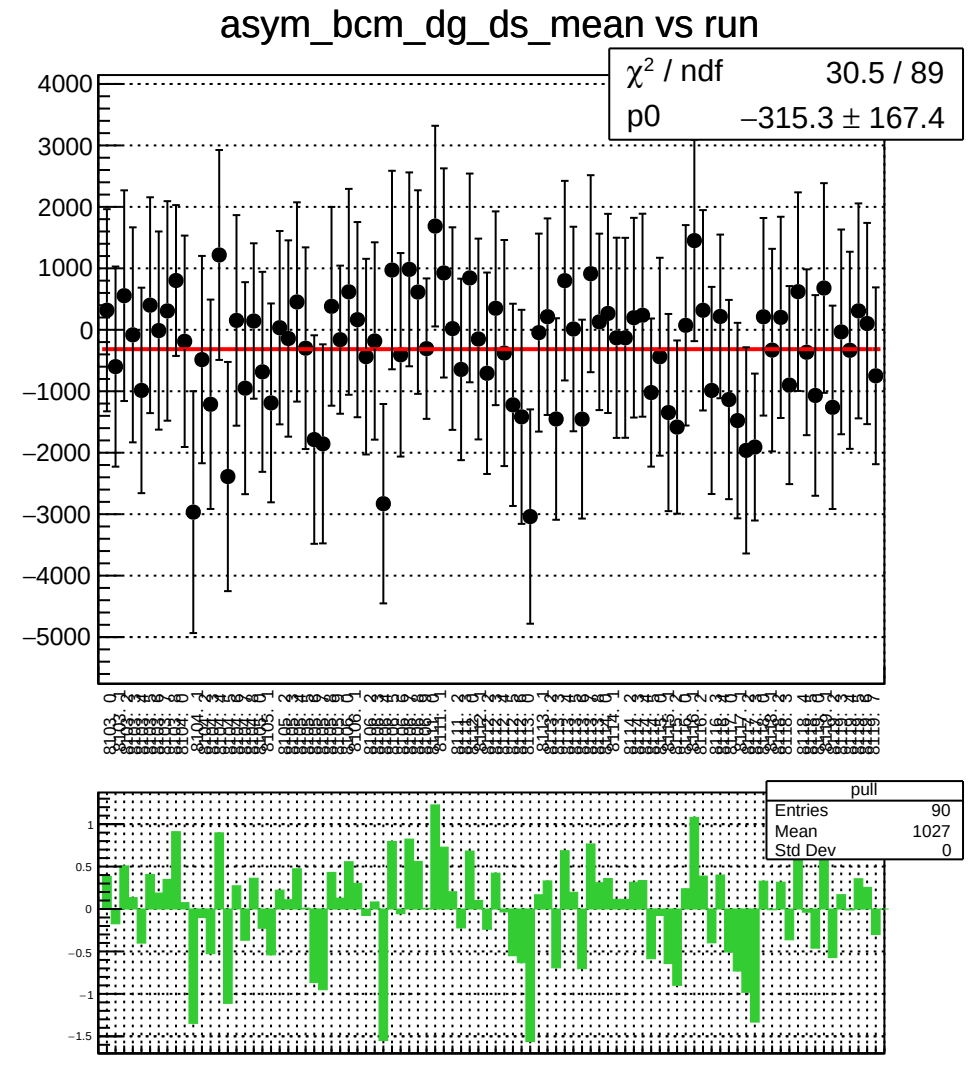

pull1D
Entries 90
Mean 0.001046
Std Dev 0.5419

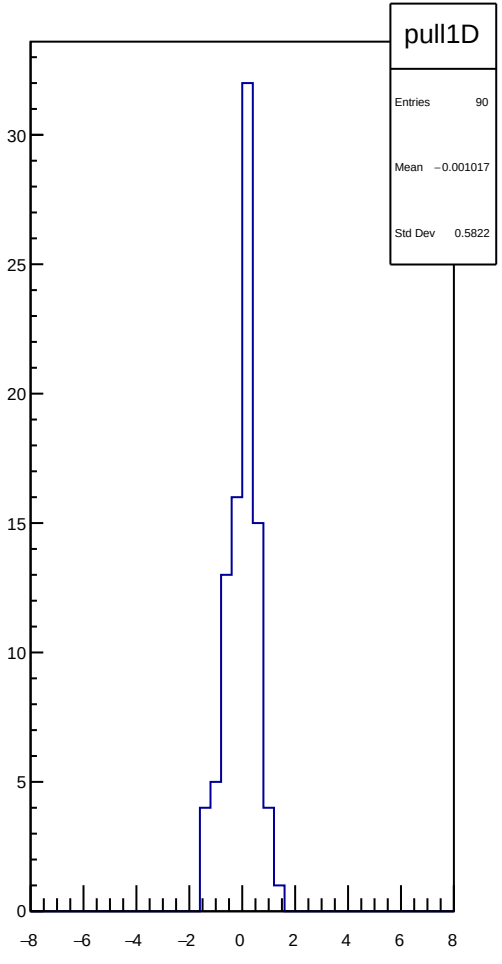

asym_bcm_an_us_rms vs run
χ^2 / ndf 3227 / 89
p0 156.3 ± 0.118
190
180
170
160
150

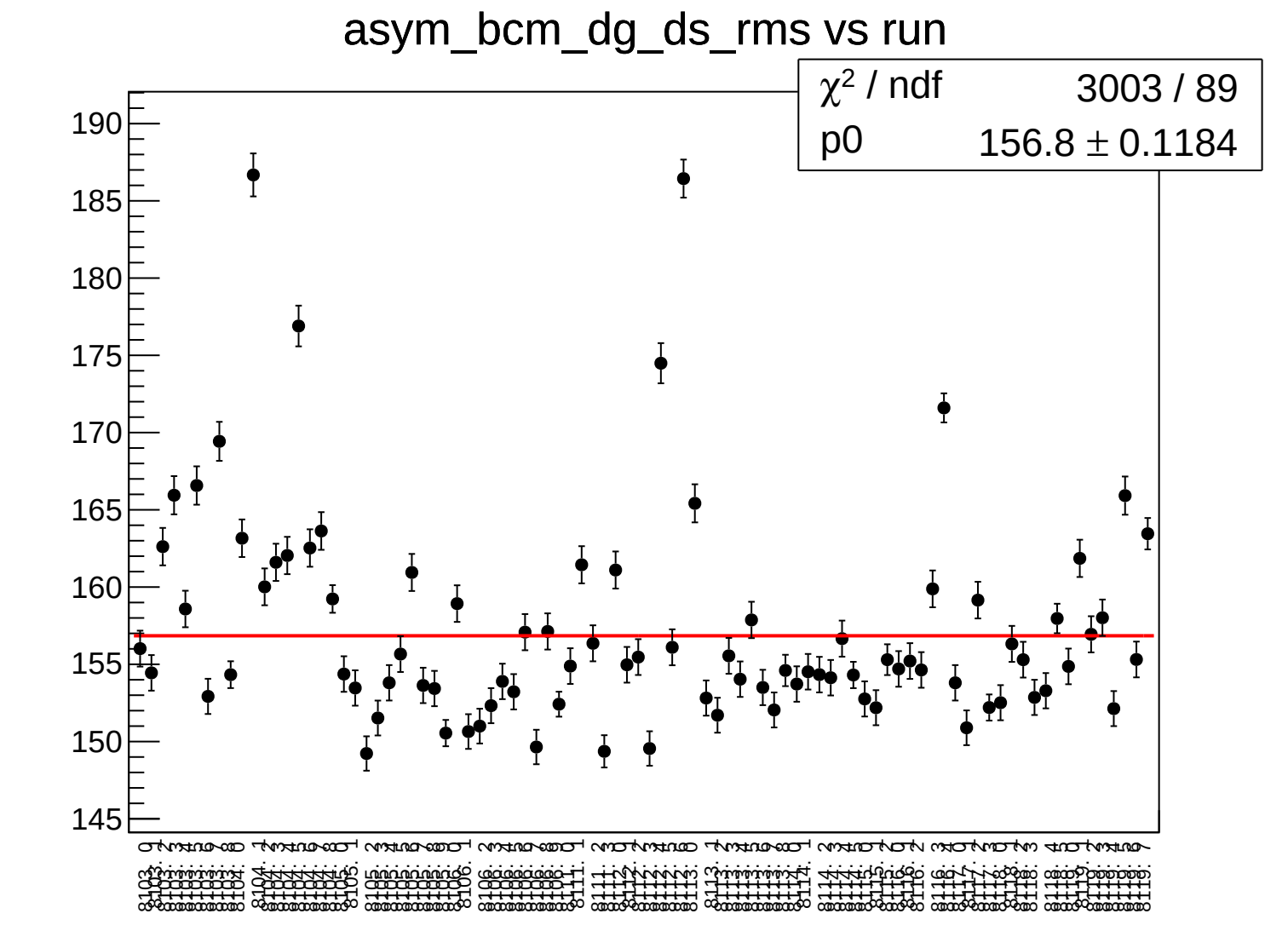

asym_bcm_dg_us_mean vs run
χ² / ndf 33.64 / 89
p0 −331.1 ± 169.5
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 840.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

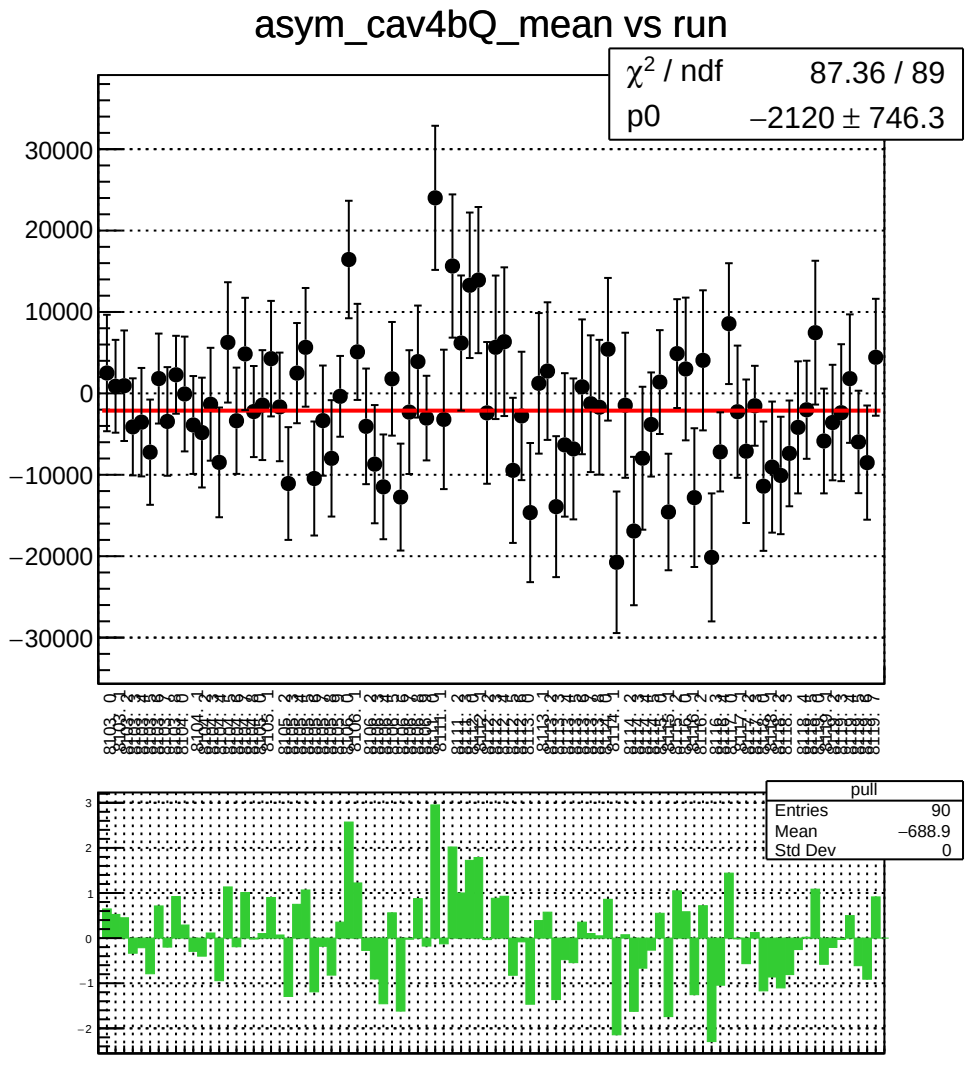

pull1D
Entries 90
Mean −0.002294
Std Dev 0.6113
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

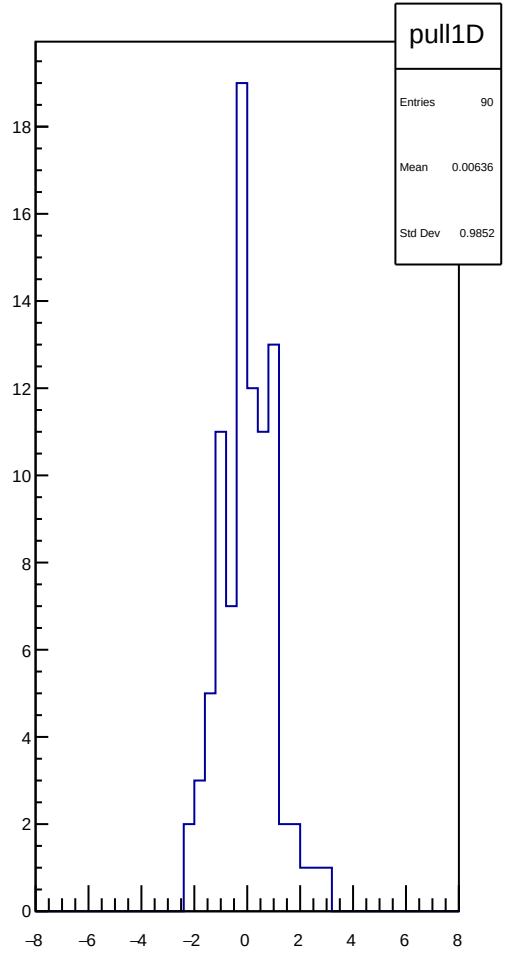

asym_bcm_dg_us_rms vs run
χ² / ndf 2860 / 89
p0 158.8 ± 0.1198
190
185
180
175
170
165
160
155
150

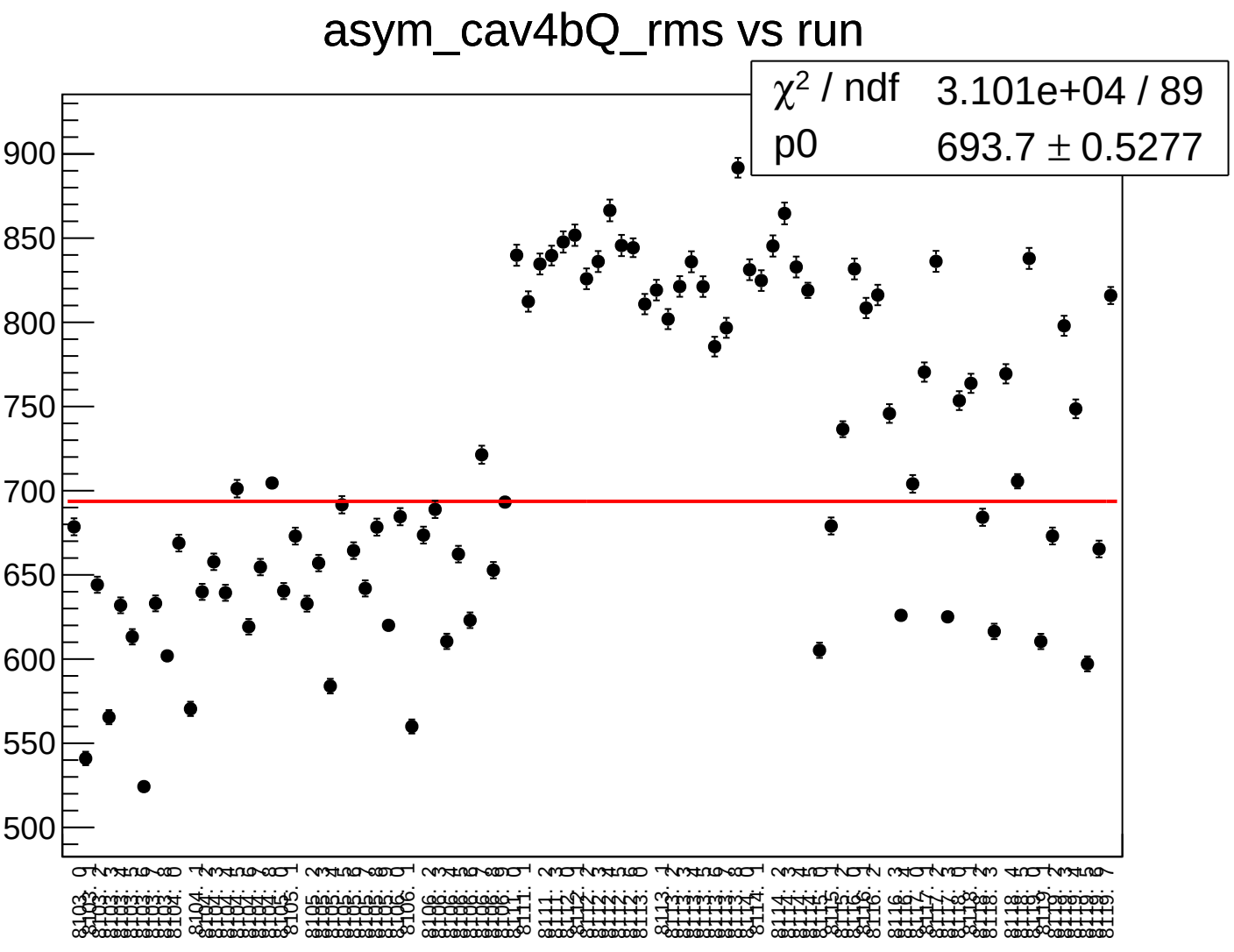

asym_bcm_dg_ds_mean vs run
χ² / ndf 30.5 / 89
p0 −315.3 ± 167.4
pull
Entries 90
Mean 1027
Std Dev 0

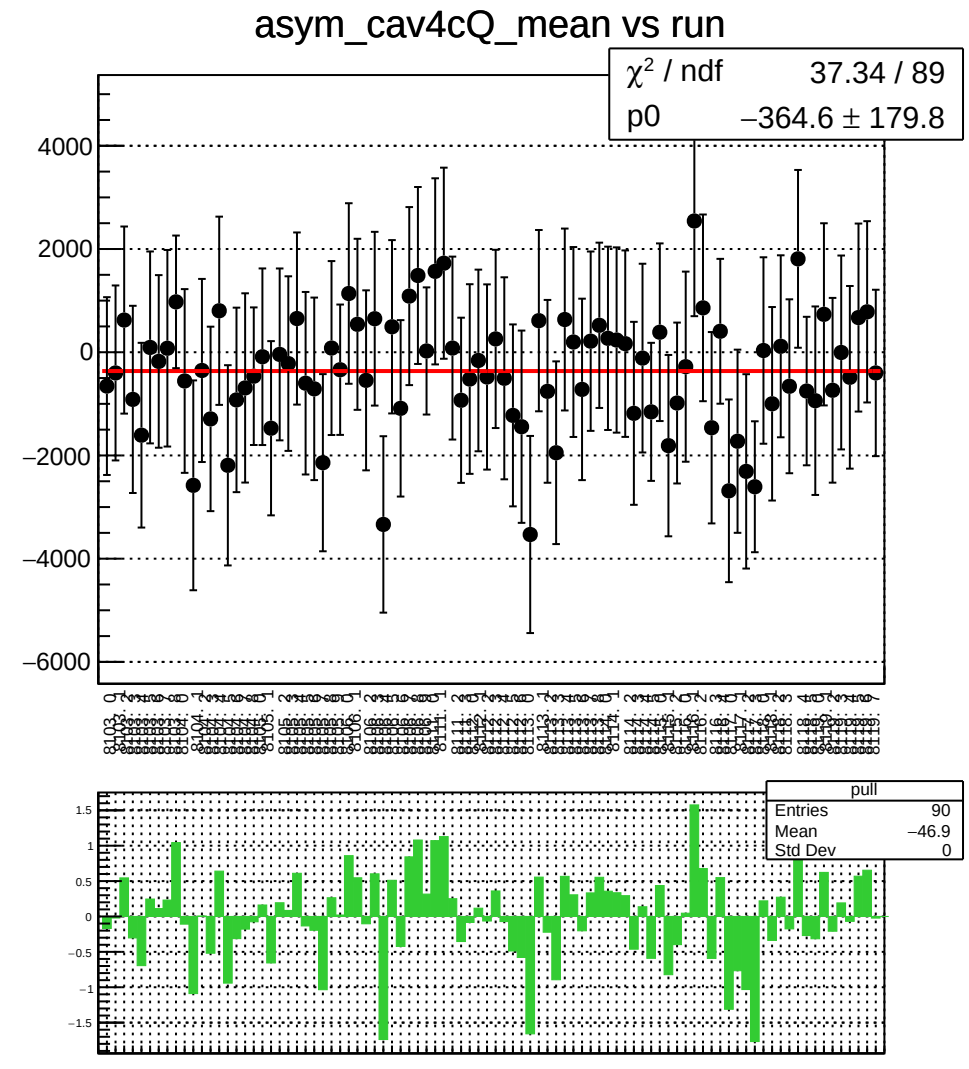

pull1D
Entries 90
Mean −0.001017
Std Dev 0.5822

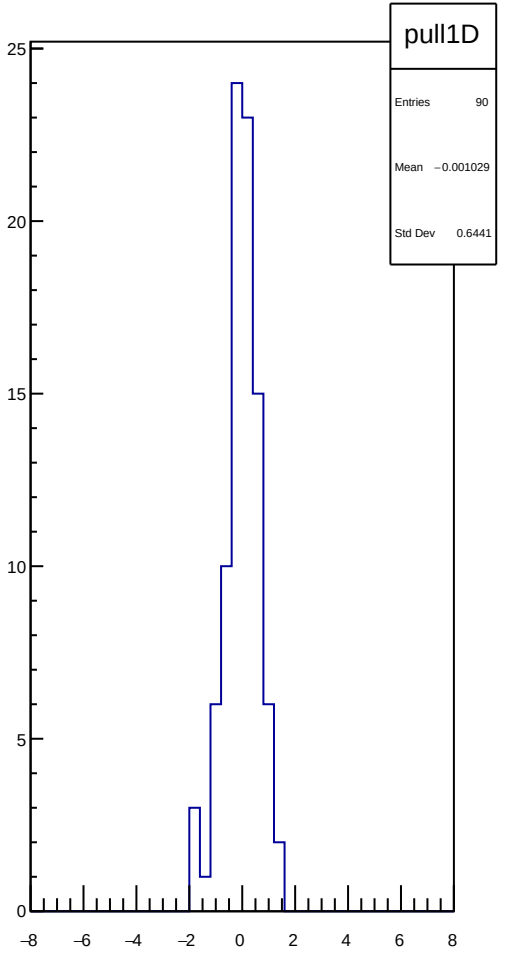

asym_bcm_dg_ds_rms vs run
χ² / ndf 3003 / 89
p0 156.8 ± 0.1184
190
185
180
175
170
165
160
155
150
145

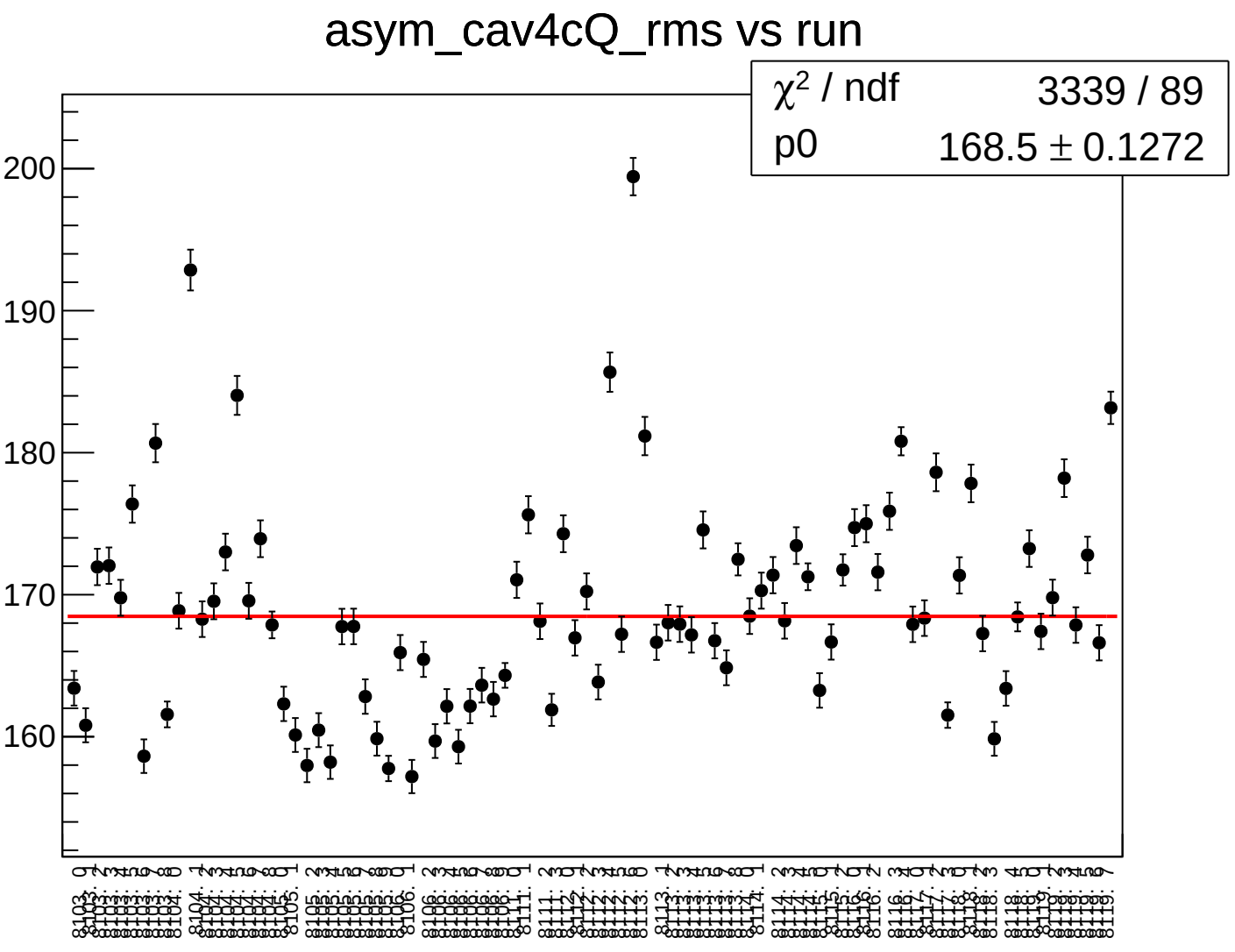

asym_cav4bQ_mean vs run
χ² / ndf 87.36 / 89
p0 −2120 ± 746.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −688.9
Std Dev 0
3
2
1
0
−1
−2

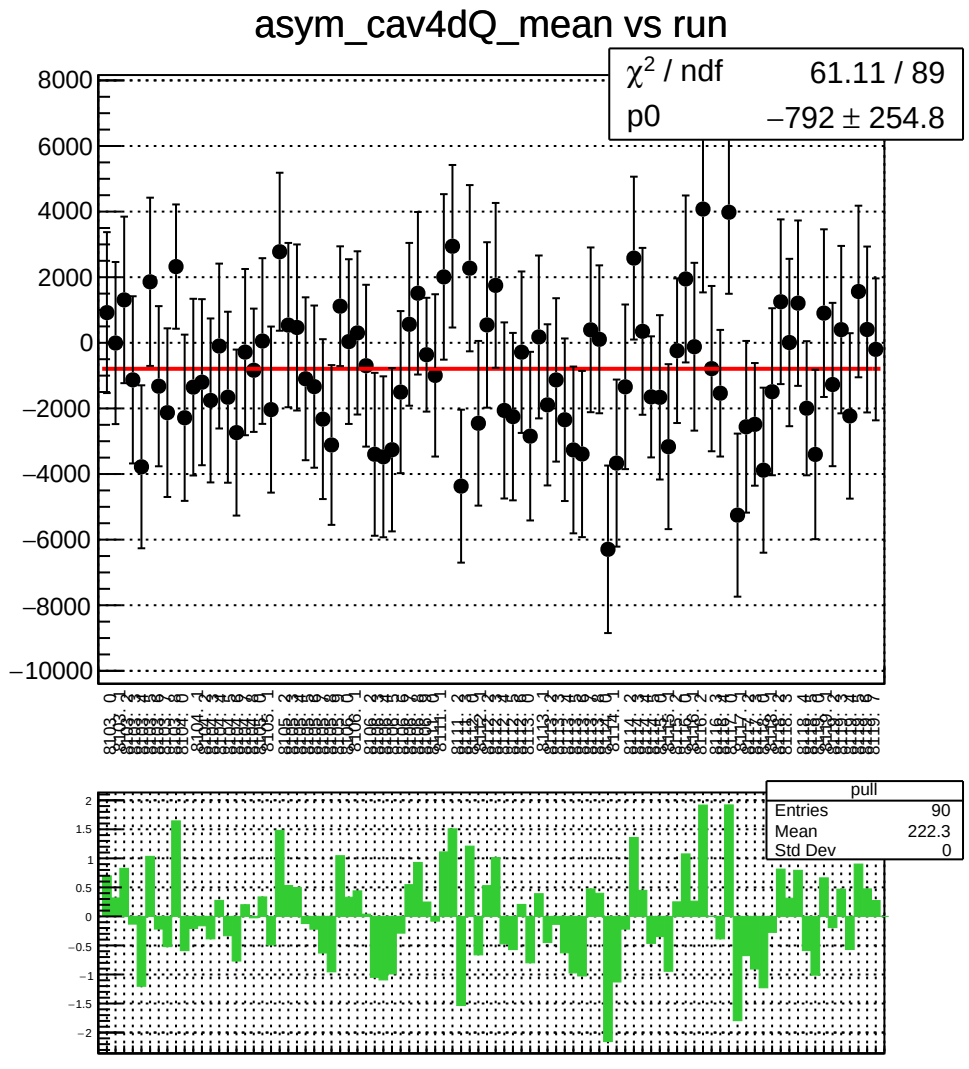

pull1D
Entries 90
Mean 0.00636
Std Dev 0.9852
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

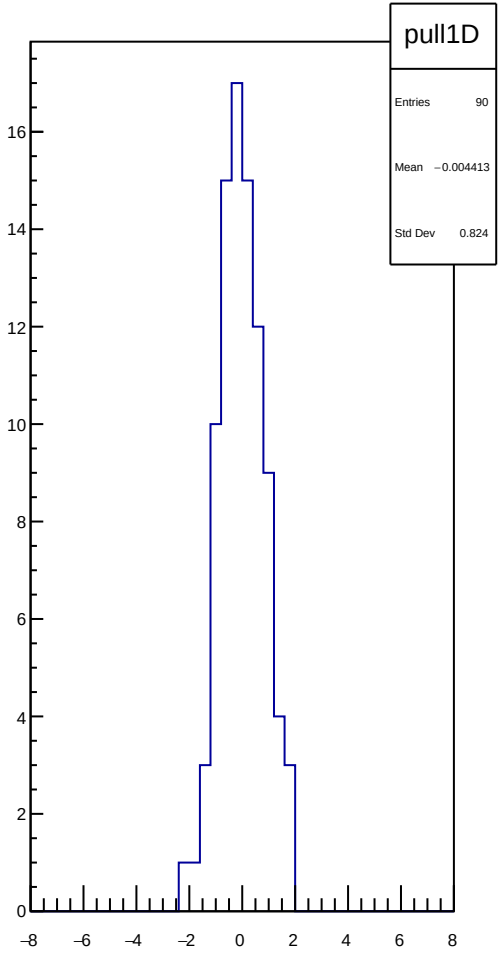

asym_cav4bQ_rms vs run
χ² / ndf 3.101e+04 / 89
p0 693.7 ± 0.5277
900
850
800
750
700
650
600
550
500

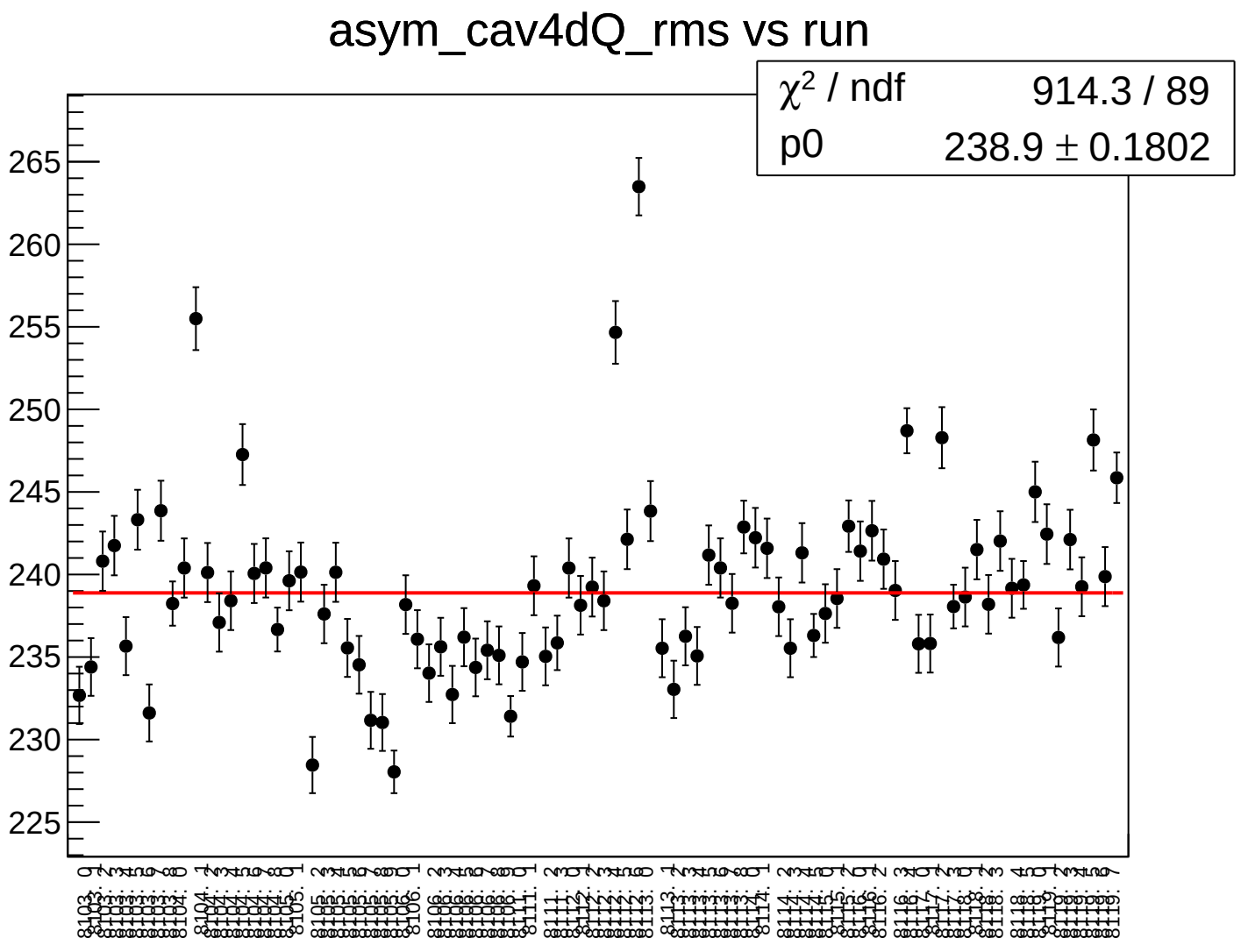

asym_cav4cQ_mean vs run
χ² / ndf 37.34 / 89
p0 −364.6 ± 179.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −46.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

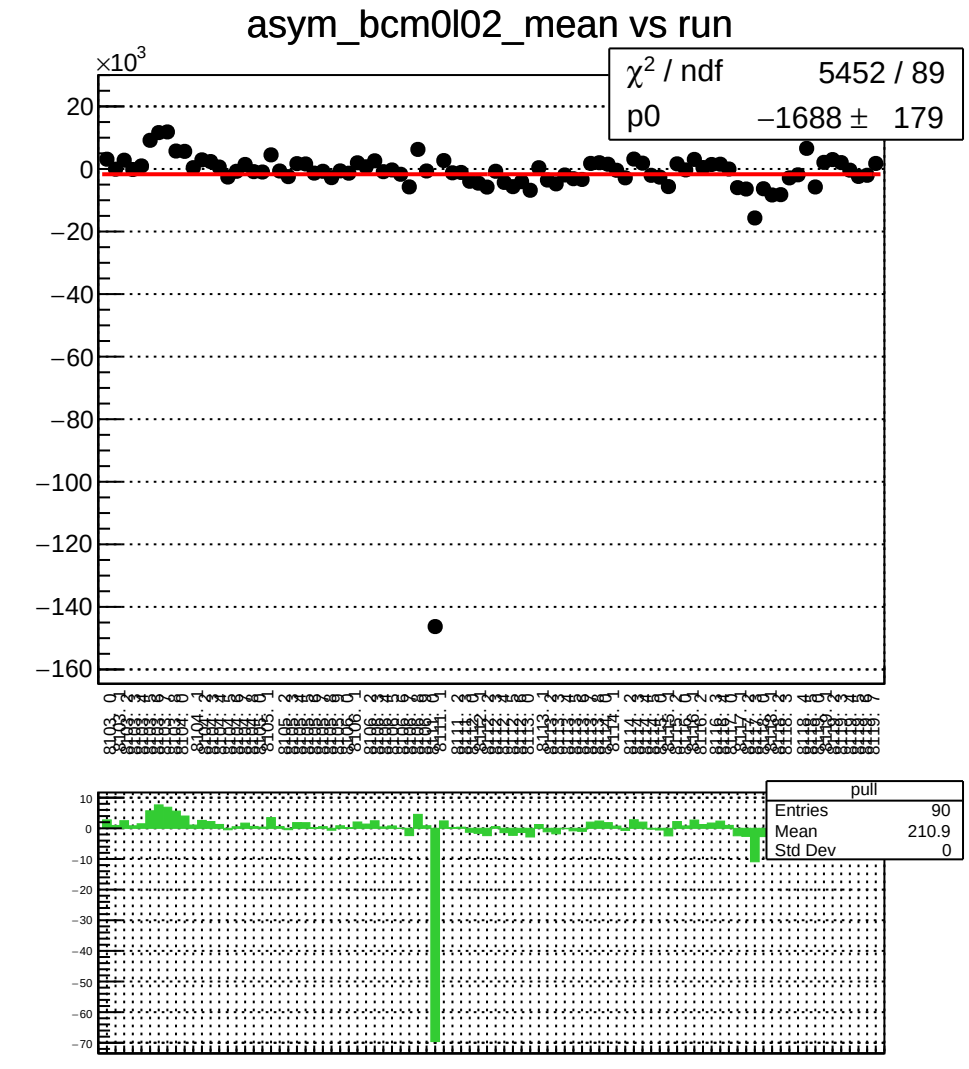

pull1D
Entries 90
Mean −0.001029
Std Dev 0.6441
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

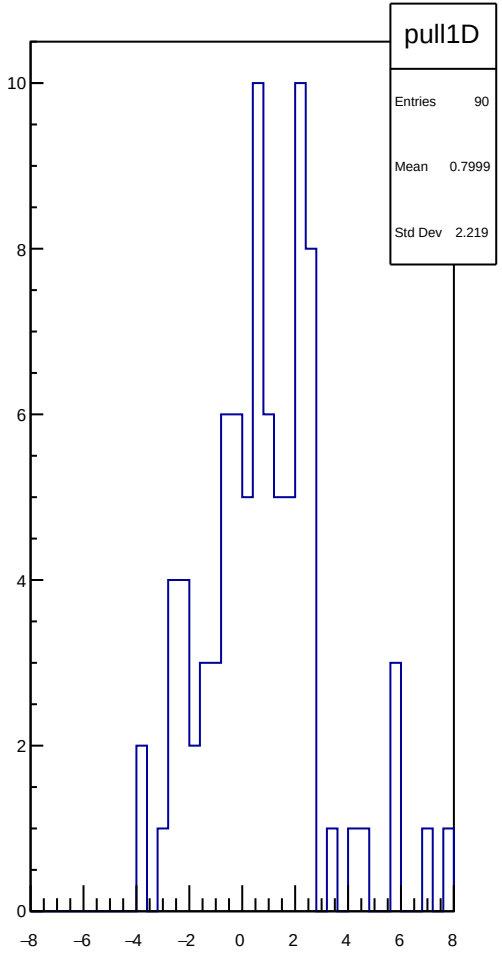

asym_cav4cQ_rms vs run
χ² / ndf 3339 / 89
p0 168.5 ± 0.1272
200
190
180
170
160

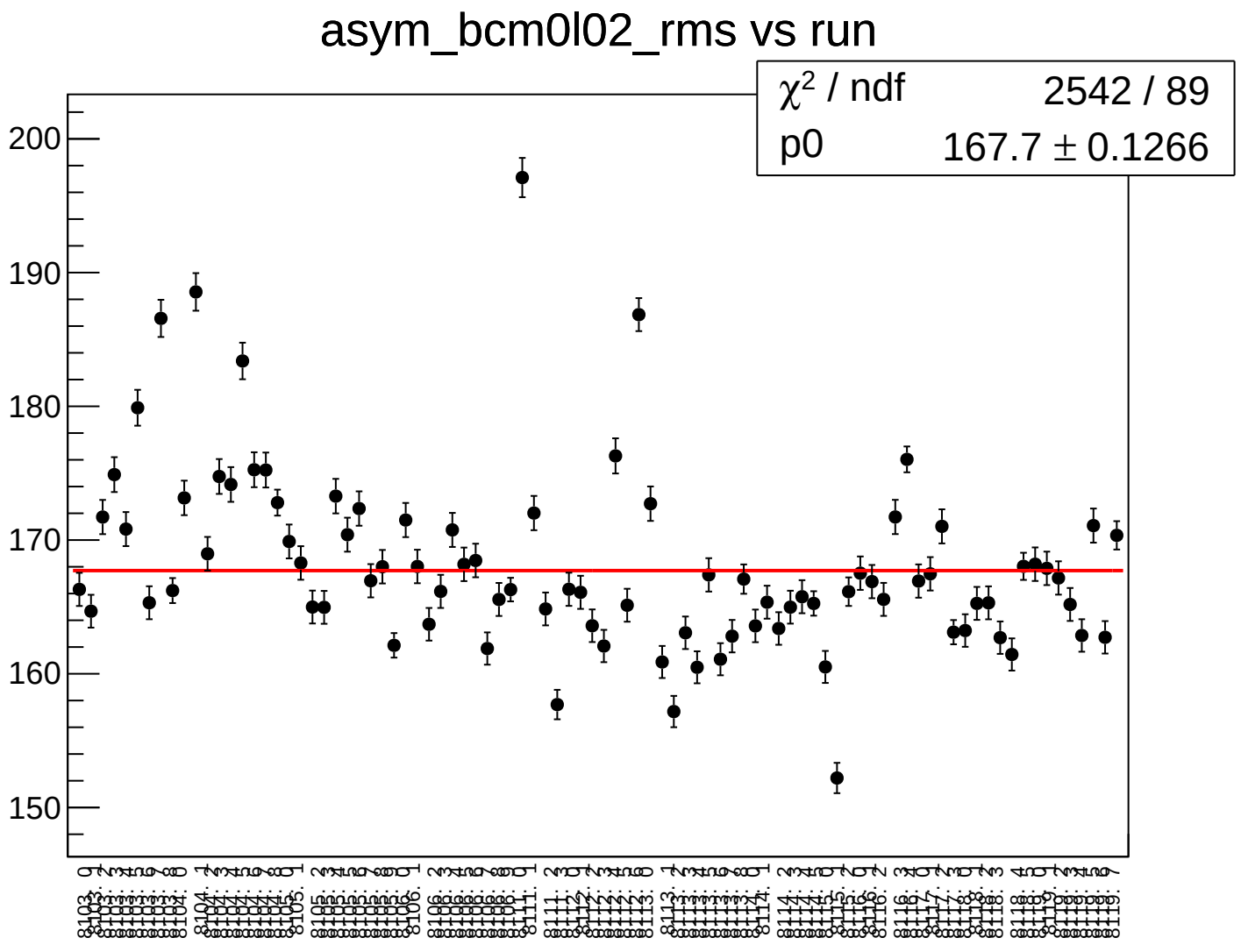

asym_cav4dQ_mean vs run
χ² / ndf 61.11 / 89
p0 −792 ± 254.8
pull
Entries 90
Mean 222.3
Std Dev 0

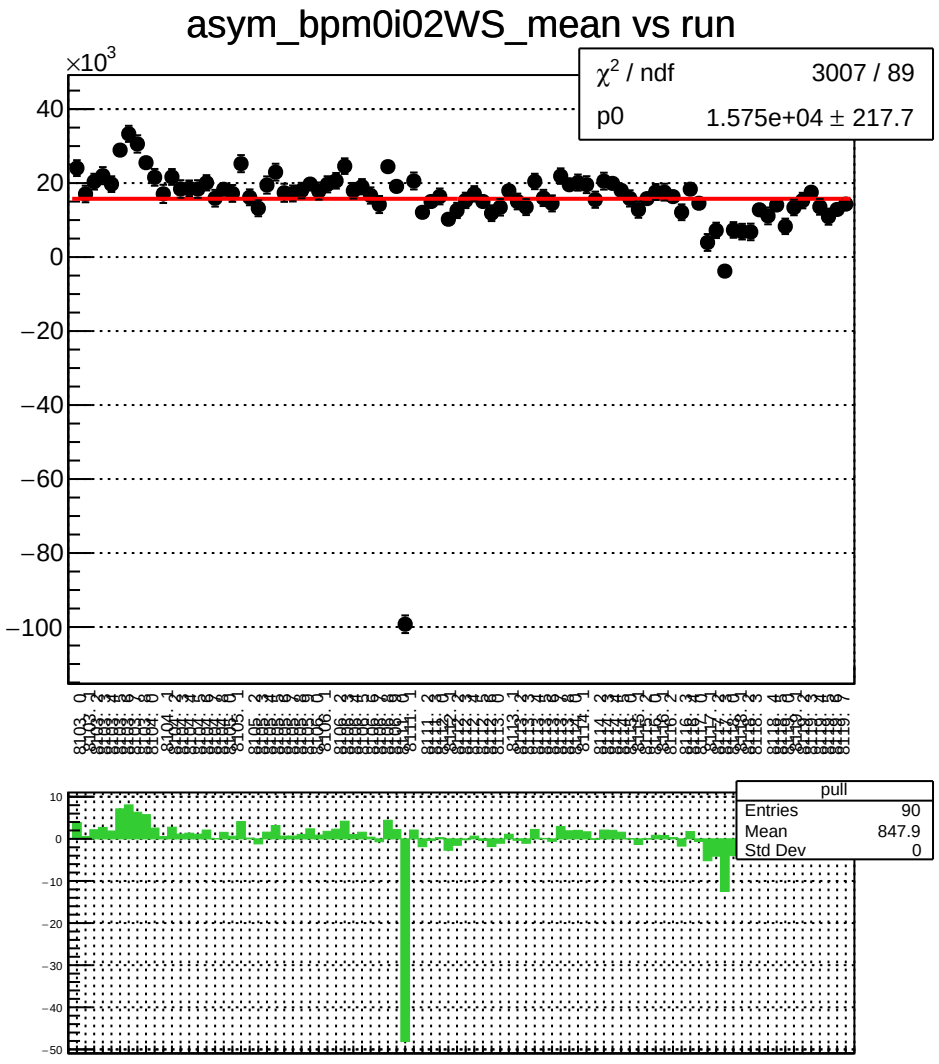

pull1D
Entries 90
Mean −0.004413
Std Dev 0.824

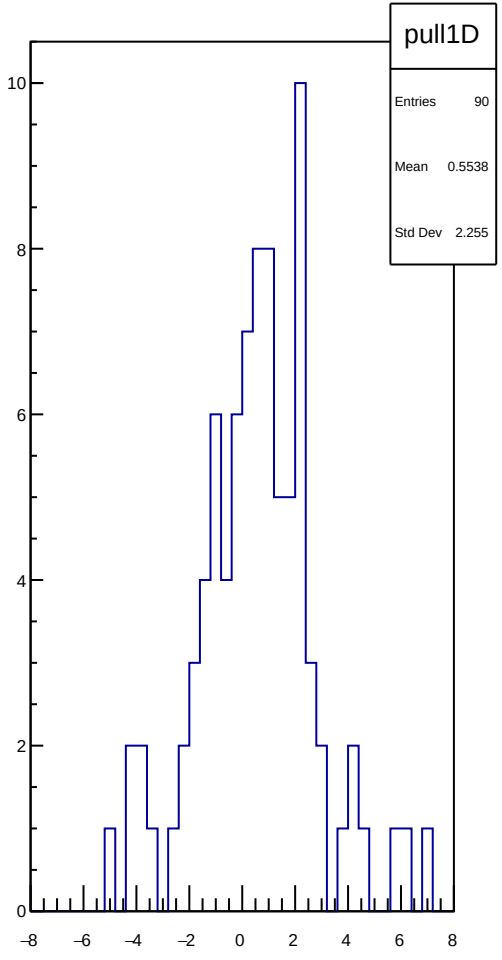

asym_cav4dQ_rms vs run
χ² / ndf 914.3 / 89
p0 238.9 ± 0.1802
265
260
255
250
245
240
235
230
225

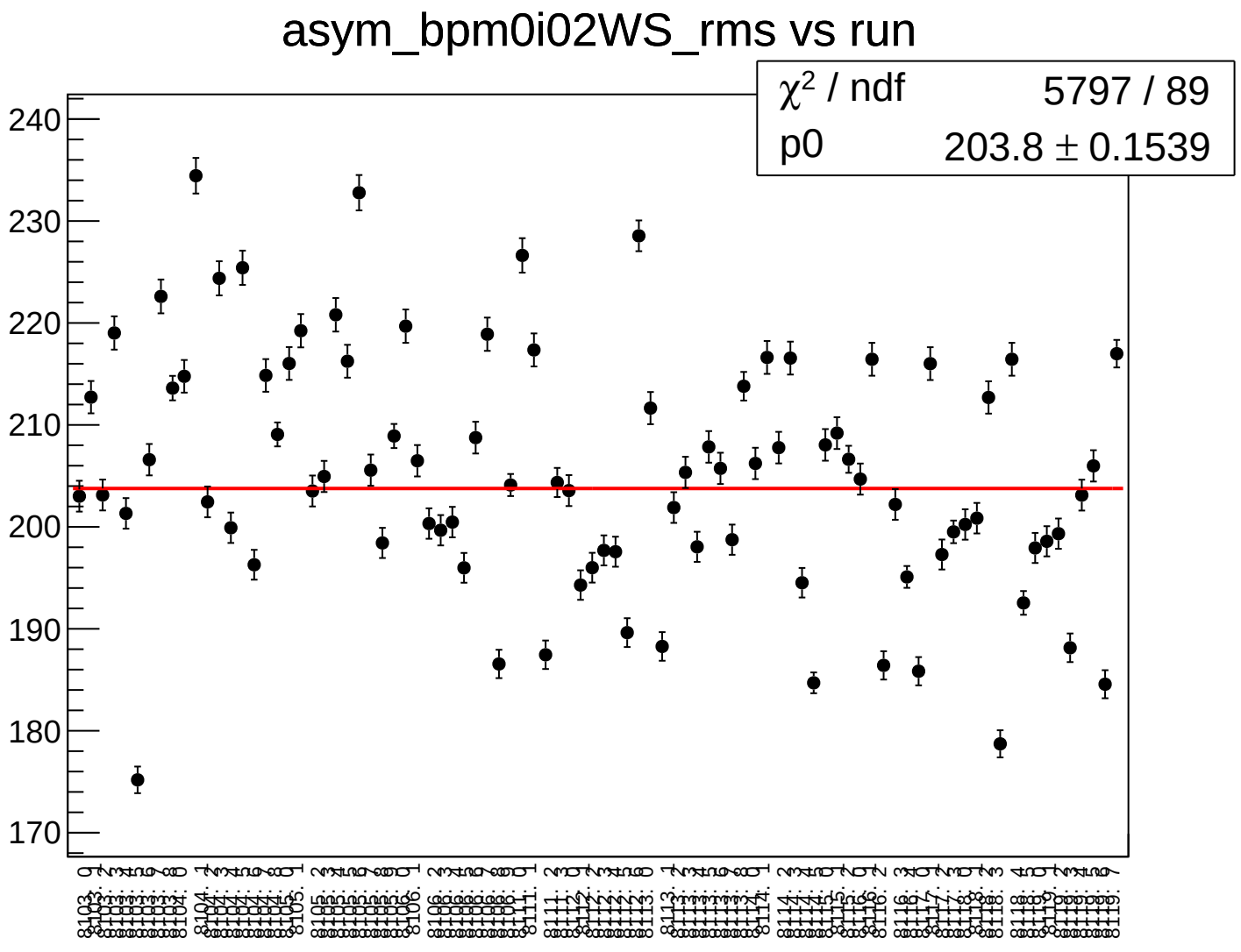

asym_bcm0l02_mean vs run
×10^3
χ^2 / ndf 5452 / 89
p0 −1688 ± 179
pull
Entries 90
Mean 210.9
Std Dev 0

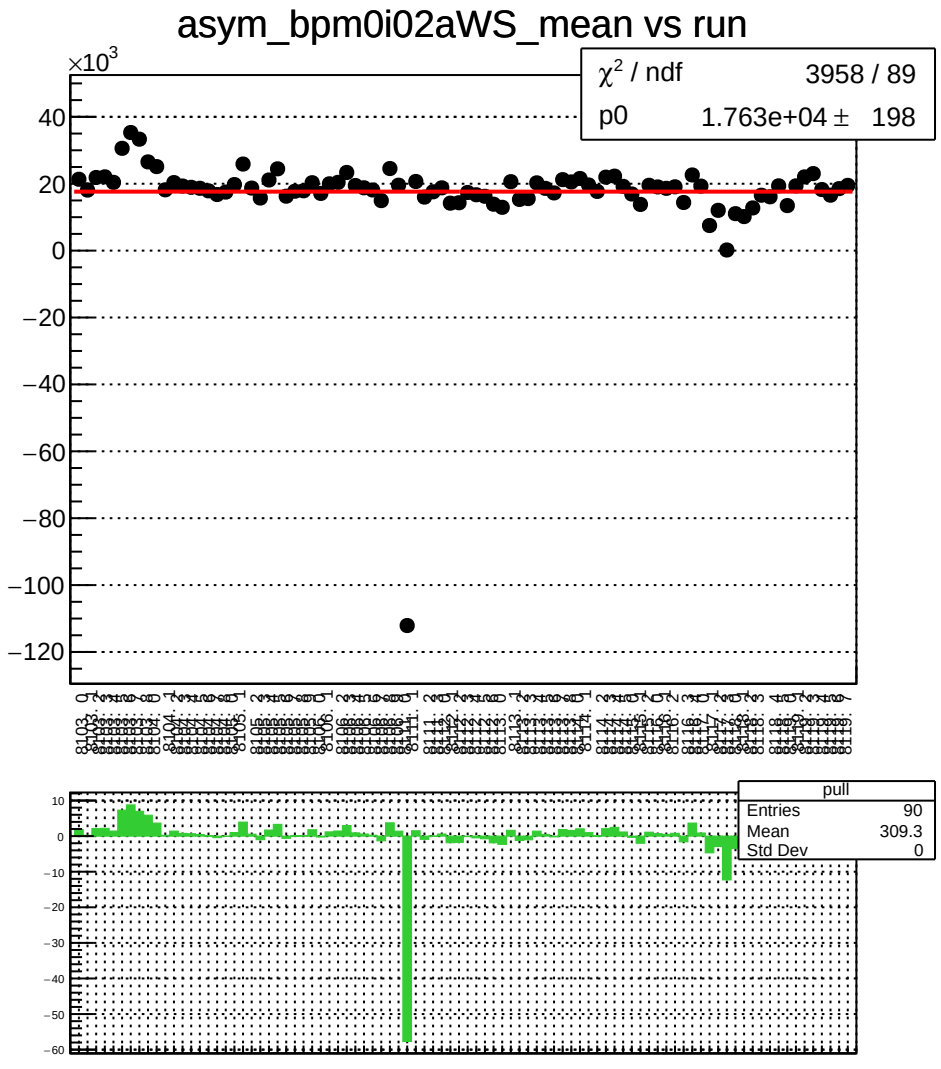

pull1D
Entries 90
Mean 0.7999
Std Dev 2.219

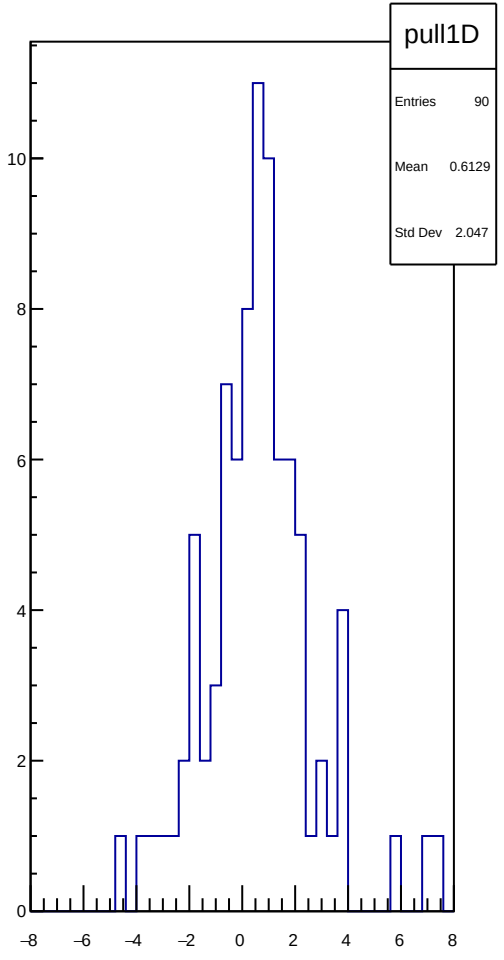

asym_bcm0l02_rms vs run
χ² / ndf 2542 / 89
p0 167.7 ± 0.1266
200
190
180
170
160
150

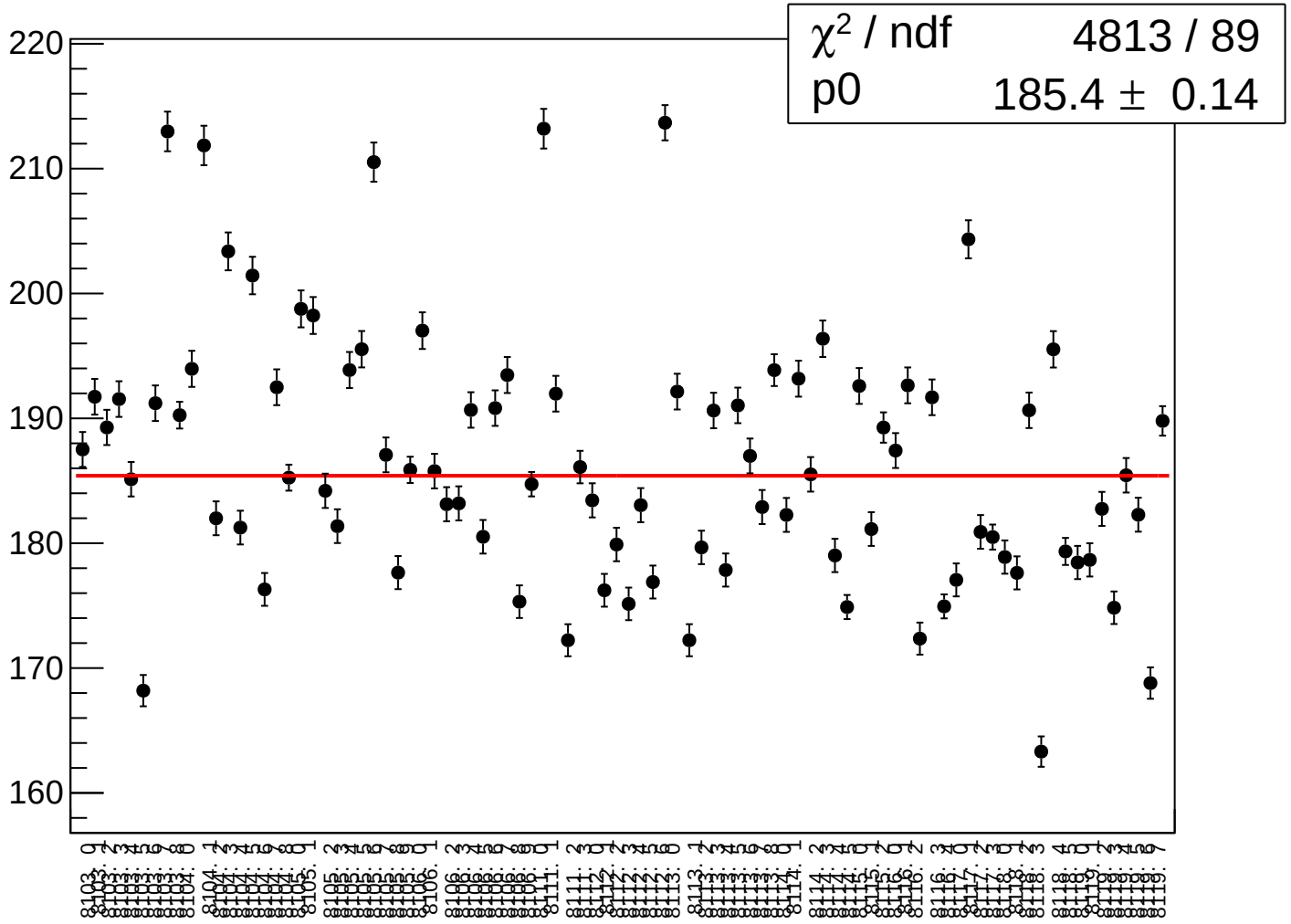

asym_bpm0i02WS_mean vs run
×10^3
χ² / ndf 3007 / 89
p0 1.575e+04 ± 217.7
40
20
0
−20
−40
−60
−80
−100
pull
Entries 90
Mean 847.9
Std Dev 0
10
0
−10
−20
−30
−40
−50

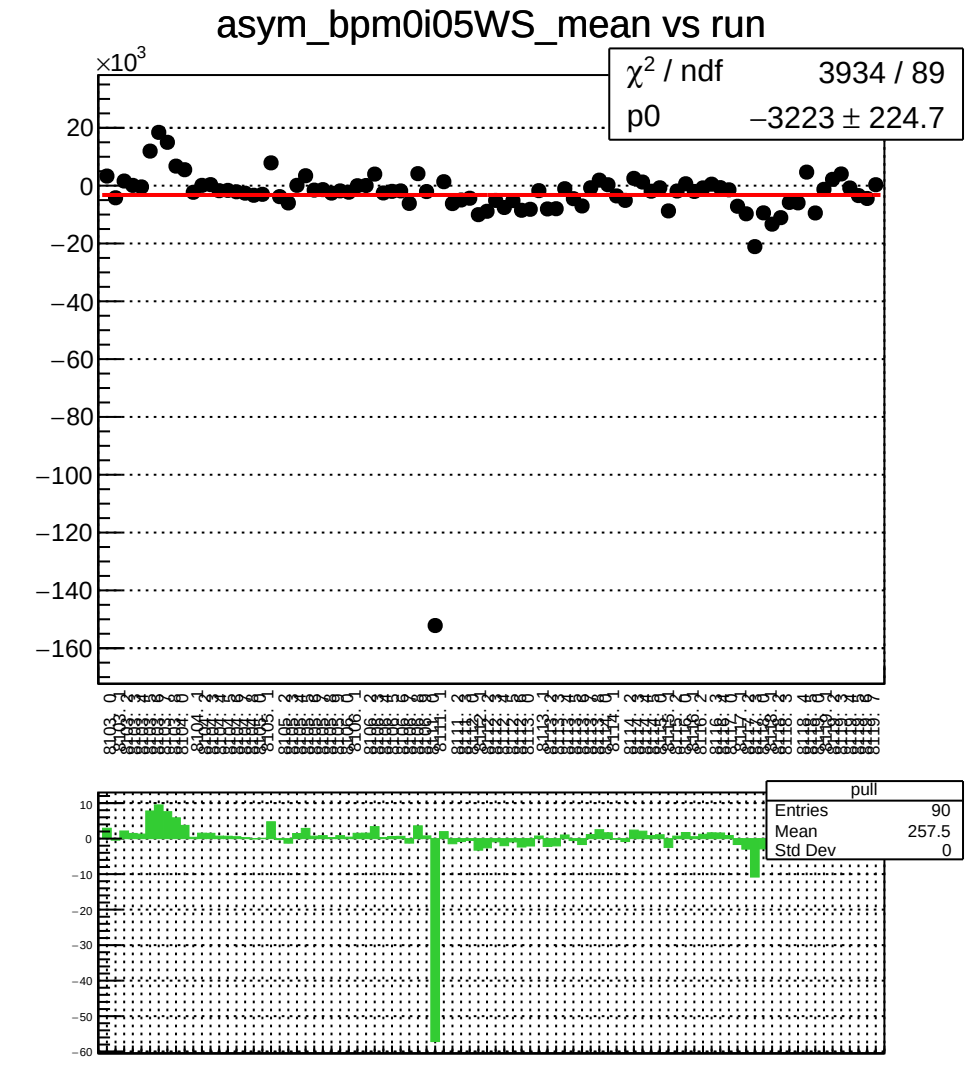

pull1D
Entries 90
Mean 0.5538
Std Dev 2.255
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

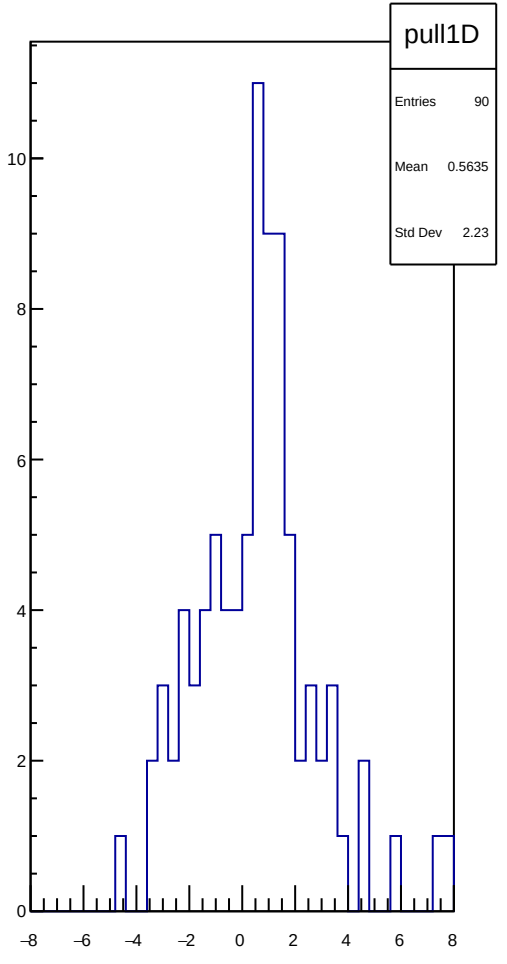

asym_bpm0i02WS_rms vs run
χ² / ndf 5797 / 89
p0 203.8 ± 0.1539
240
230
220
210
200
190
180
170

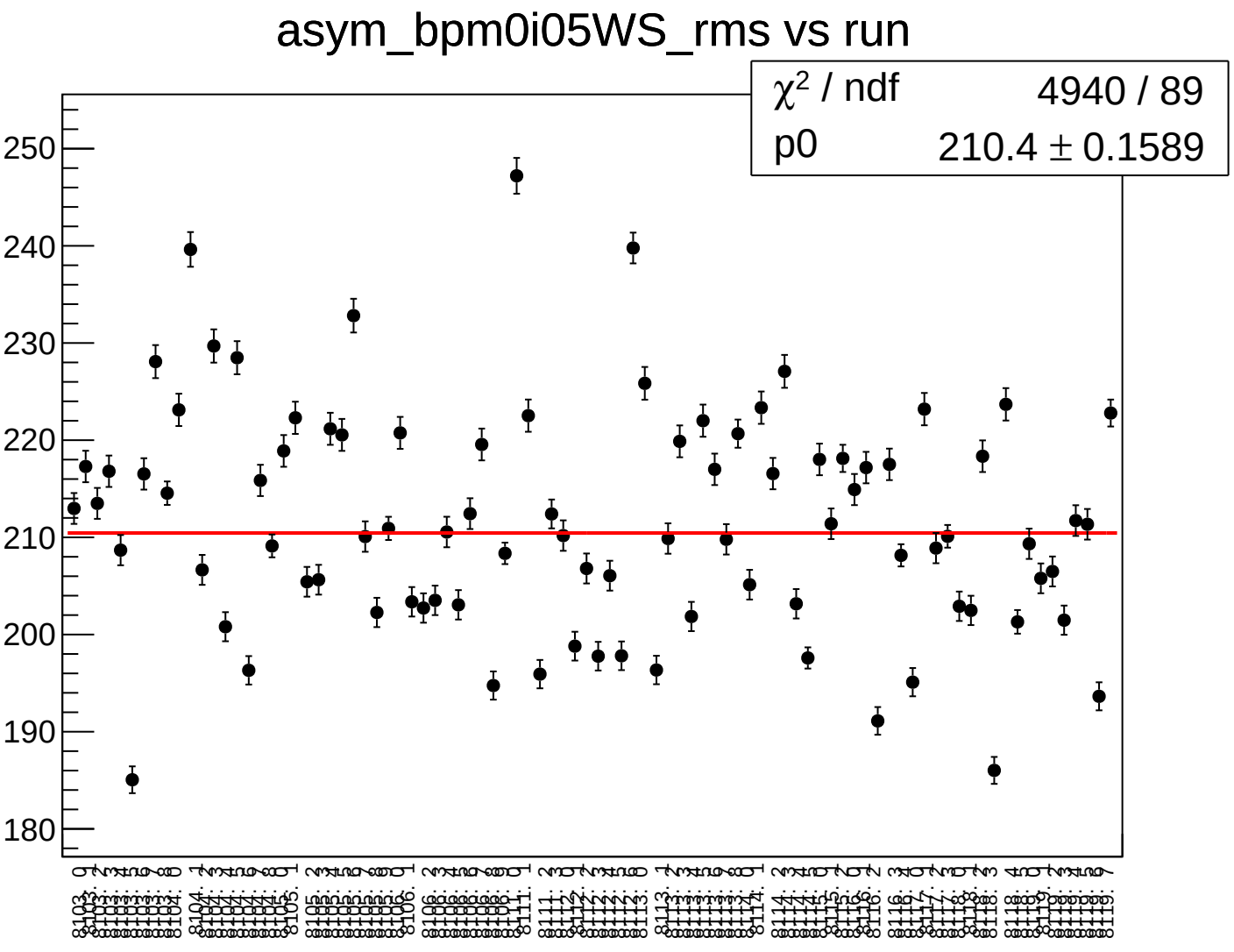

asym_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3958 / 89
p0 1.763e+04 ± 198
pull
Entries 90
Mean 309.3
Std Dev 0

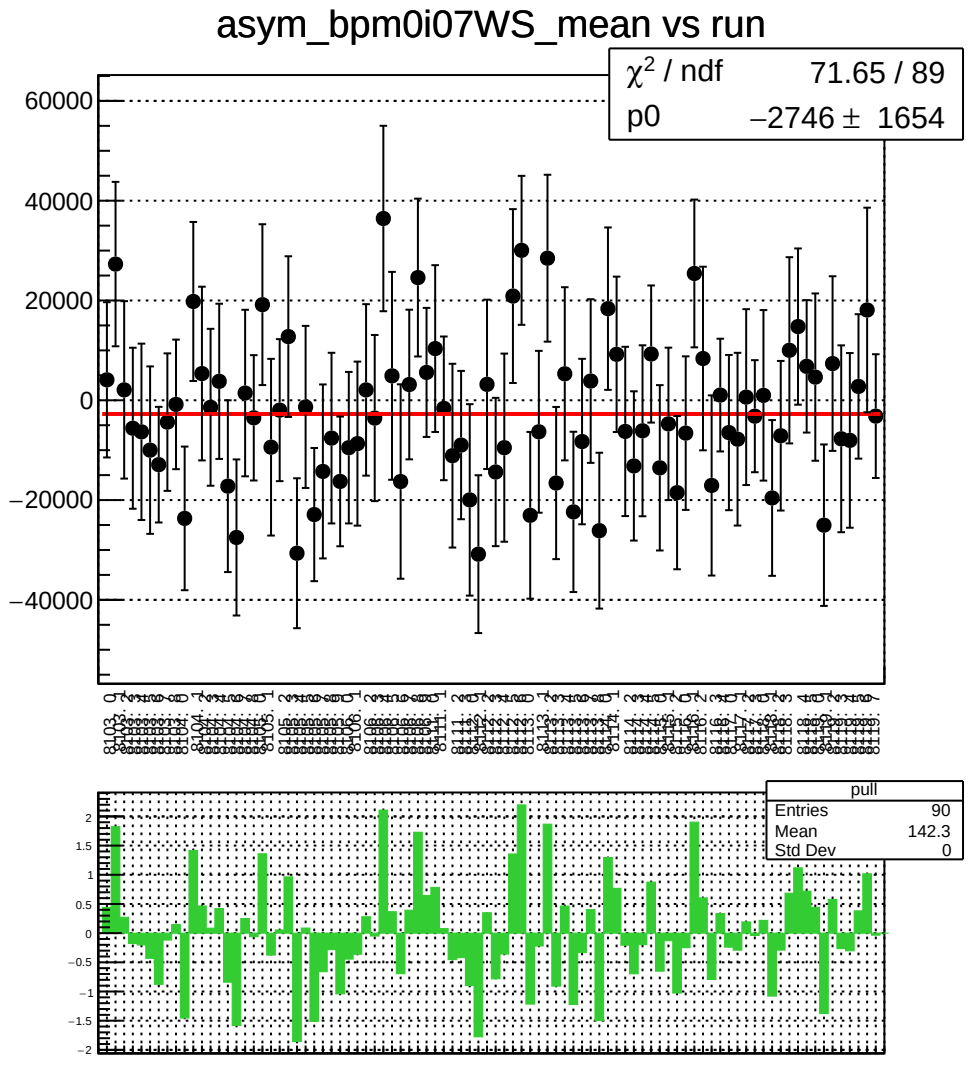

pull1D
Entries 90
Mean 0.6129
Std Dev 2.047

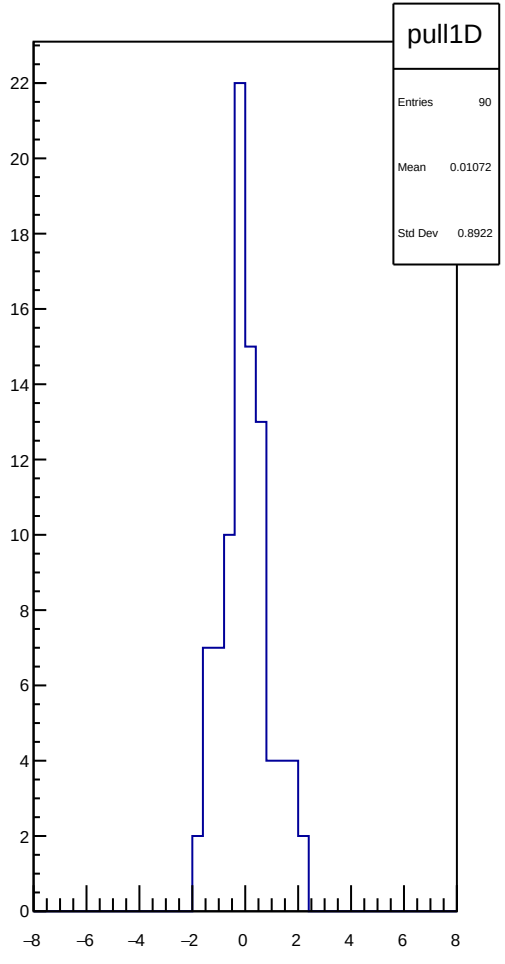

asym_bpm0i02aWS_rms vs run
χ² / ndf 4813 / 89
p0 185.4 ± 0.14
220
210
200
190
180
170
160

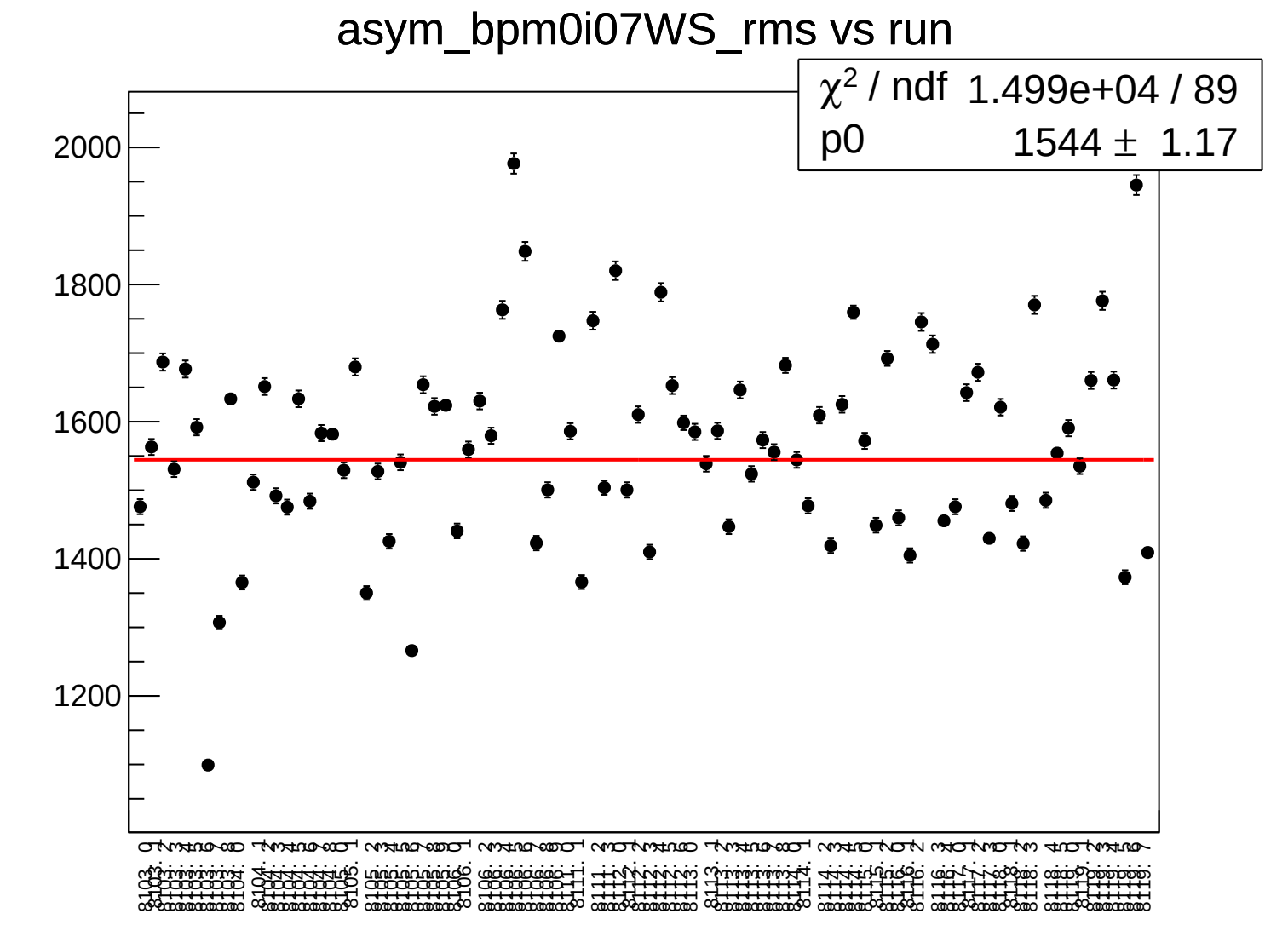

asym_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 3934 / 89
p0 −3223 ± 224.7
20
0
−20
−40
−60
−80
−100
−120
−140
−160
pull
Entries 90
Mean 257.5
Std Dev 0
10
0
−10
−20
−30
−40
−50
−60

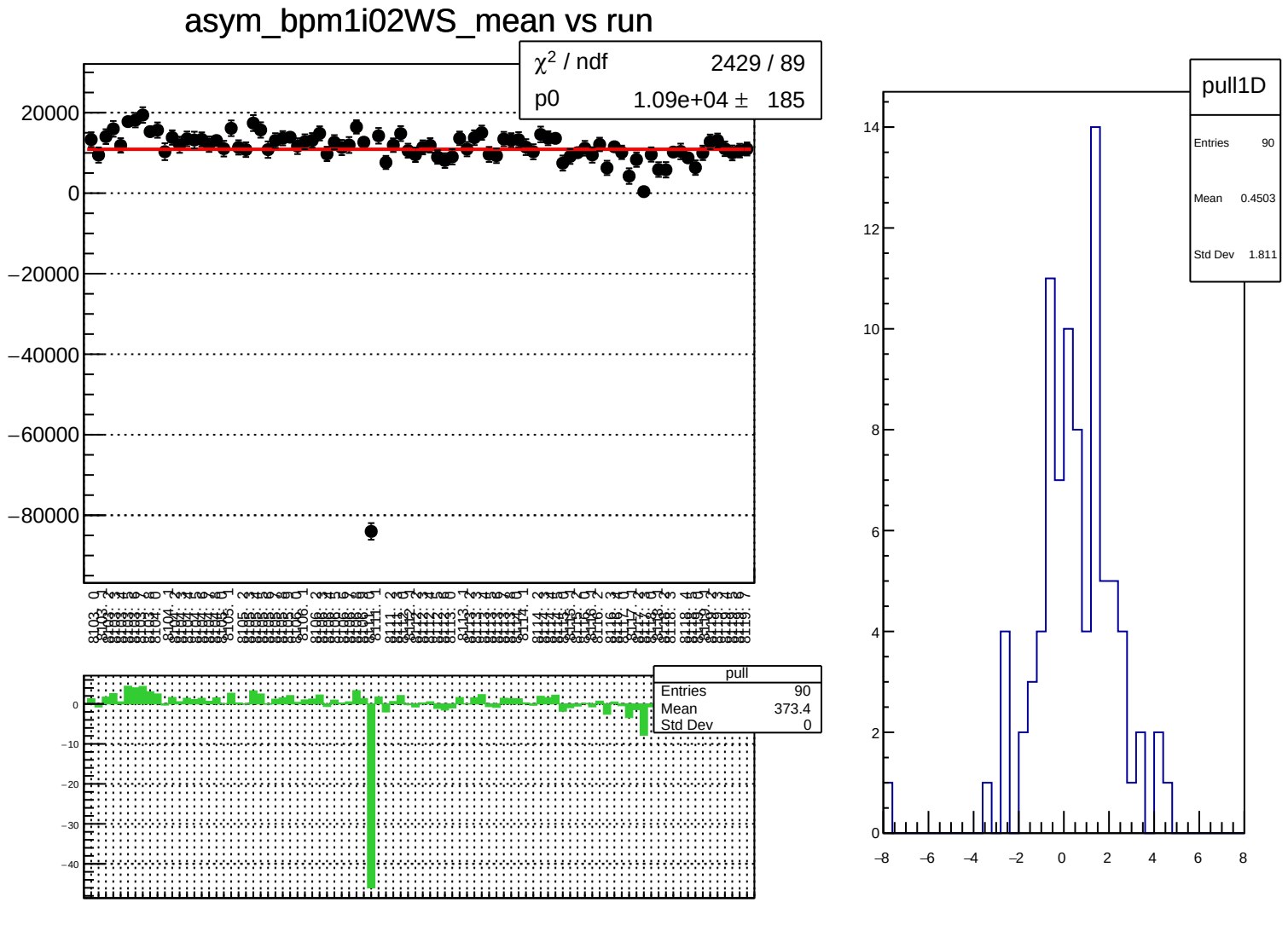

pull1D
Entries 90
Mean 0.5635
Std Dev 2.23
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

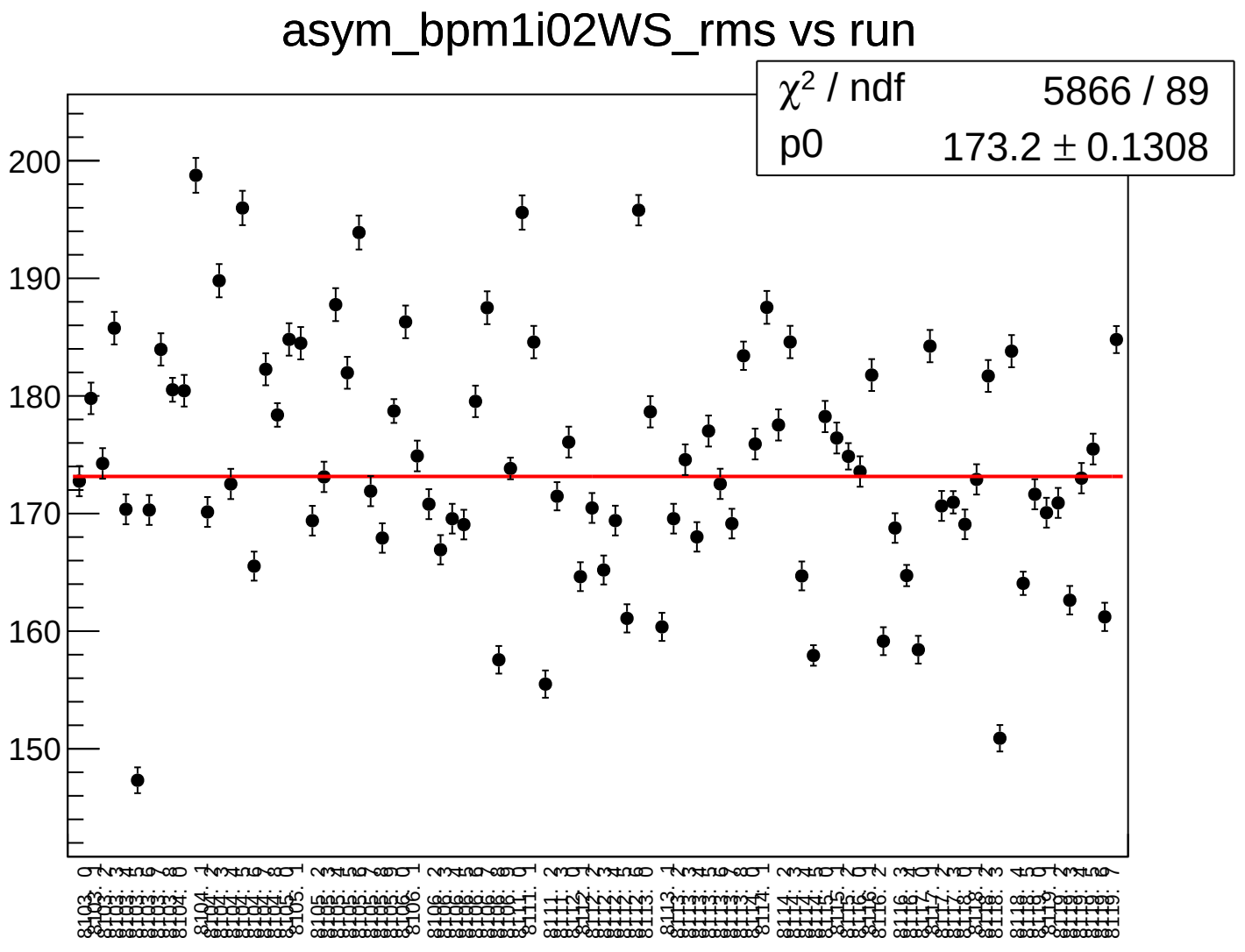

asym_bpm0i05WS_rms vs run
χ² / ndf 4940 / 89
p0 210.4 ± 0.1589
250
240
230
220
210
200
190
180

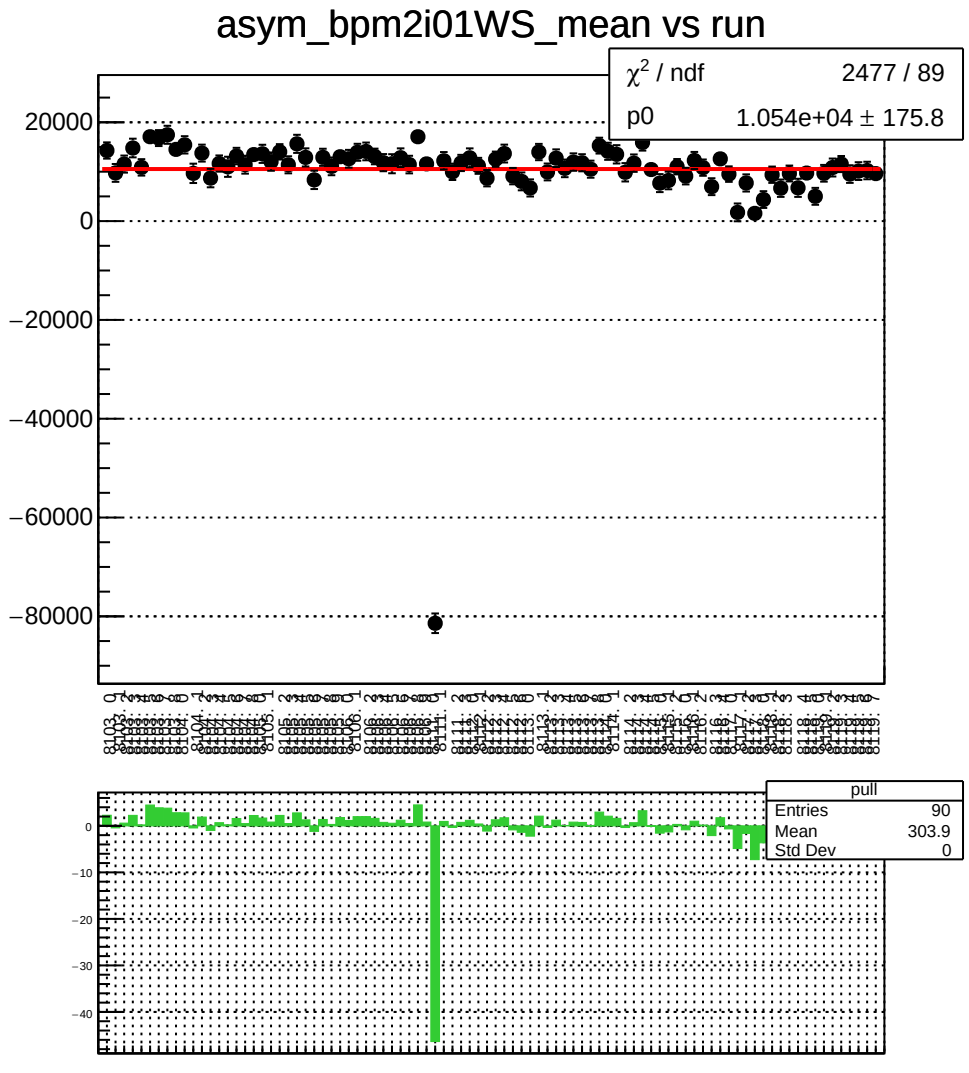

asym_bpm0i07WS_mean vs run
χ² / ndf 71.65 / 89
p0 −2746 ± 1654
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 142.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

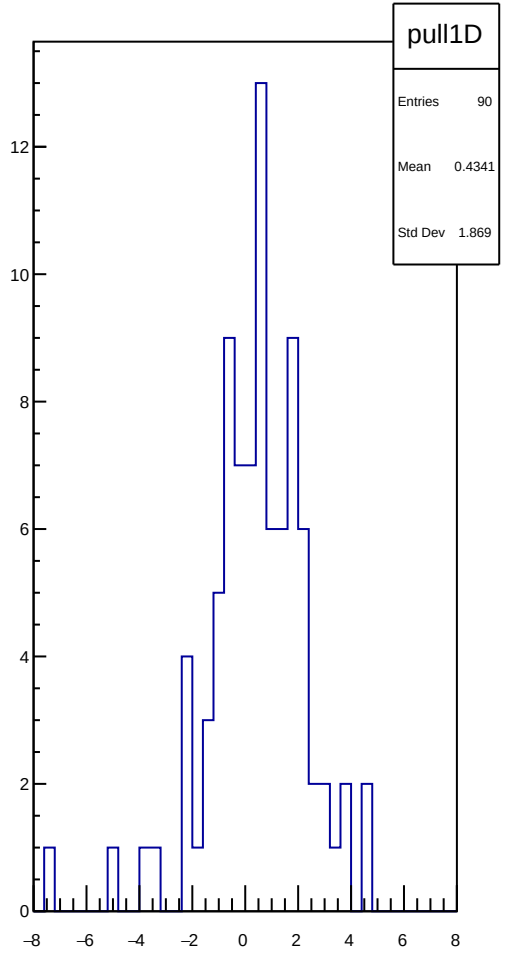

pull1D
Entries 90
Mean 0.01072
Std Dev 0.8922
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

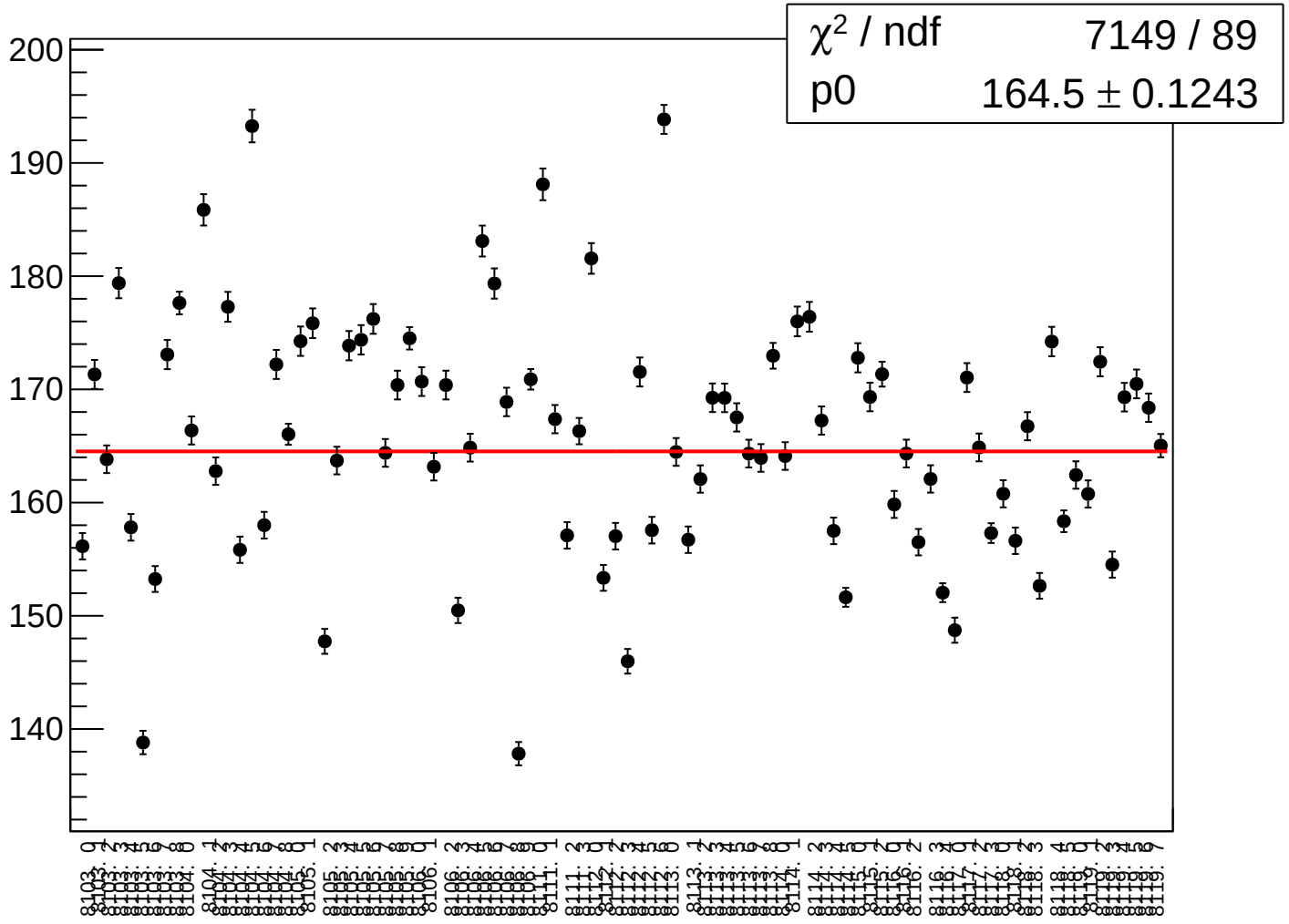

asym_bpm0i07WS_rms vs run
χ² / ndf 1.499e+04 / 89
p0 1544 ± 1.17
2000
1800
1600
1400
1200

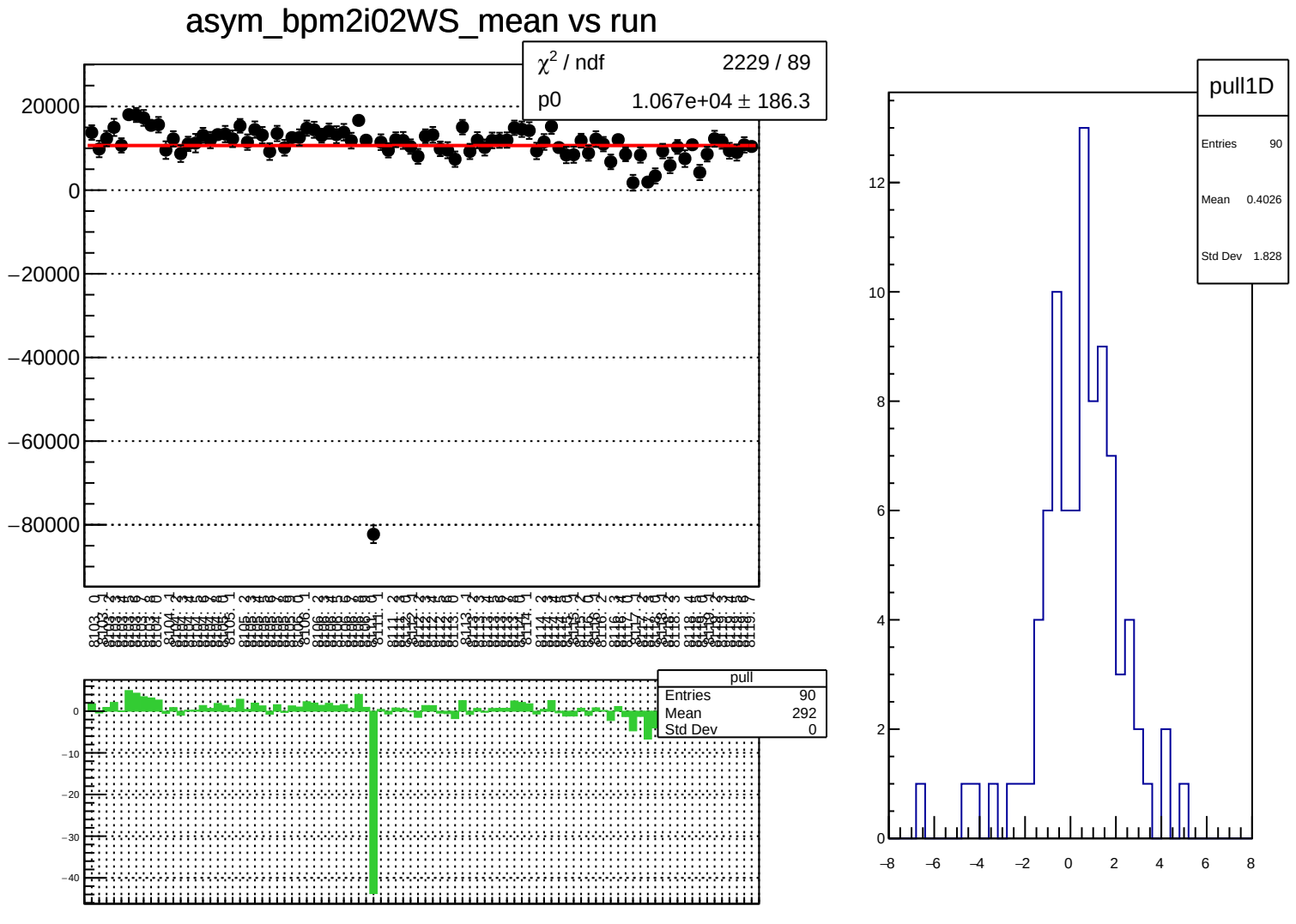

asym_bpm1i02WS_mean vs run
χ² / ndf 2429 / 89
p0 1.09e+04 ± 185
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 373.4
Std Dev 0
0
−10
−20
−30
−40
pull1D
Entries 90
Mean 0.4503
Std Dev 1.811
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

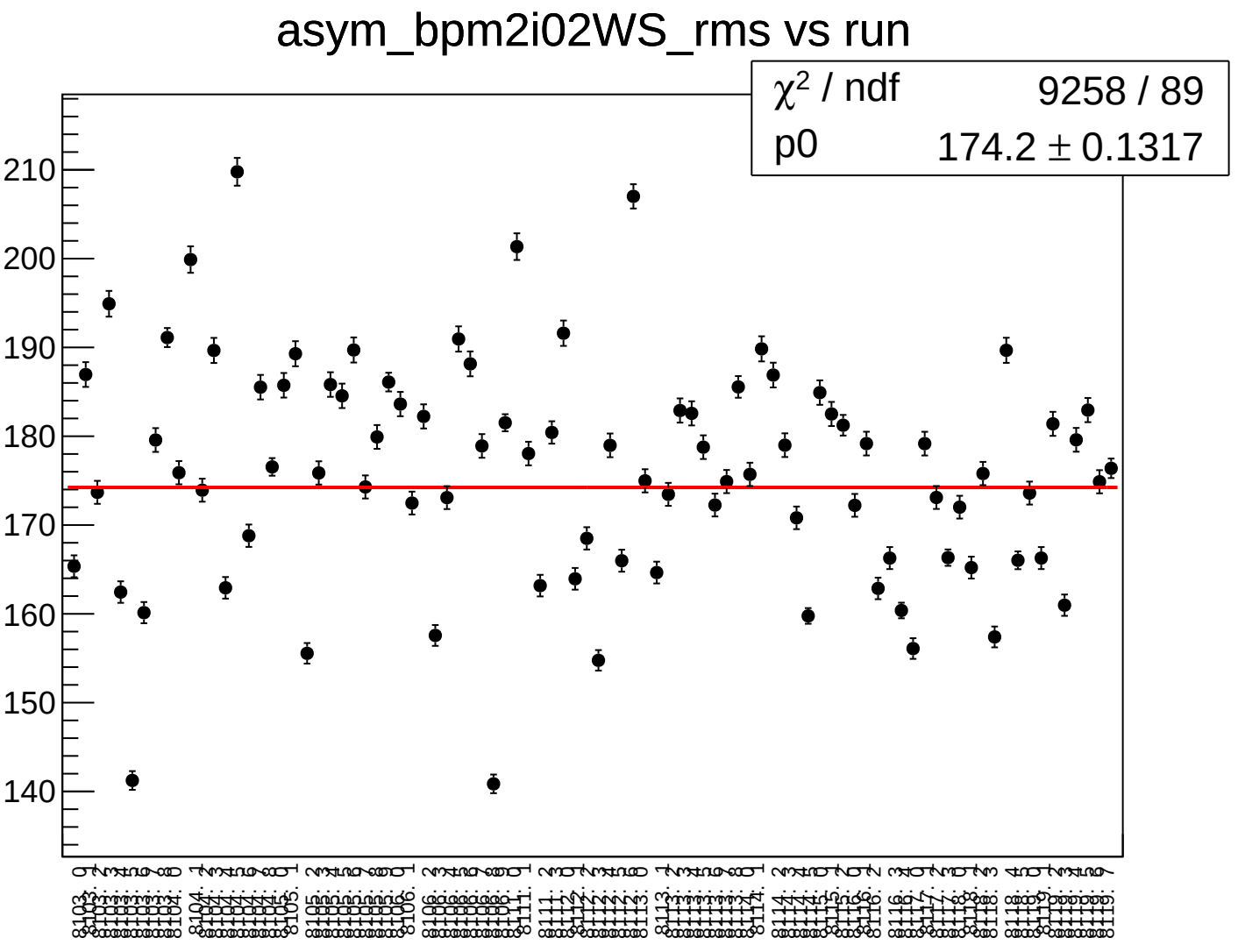

asym_bpm1i02WS_rms vs run
χ² / ndf 5866 / 89
p0 173.2 ± 0.1308
200
190
180
170
160
150

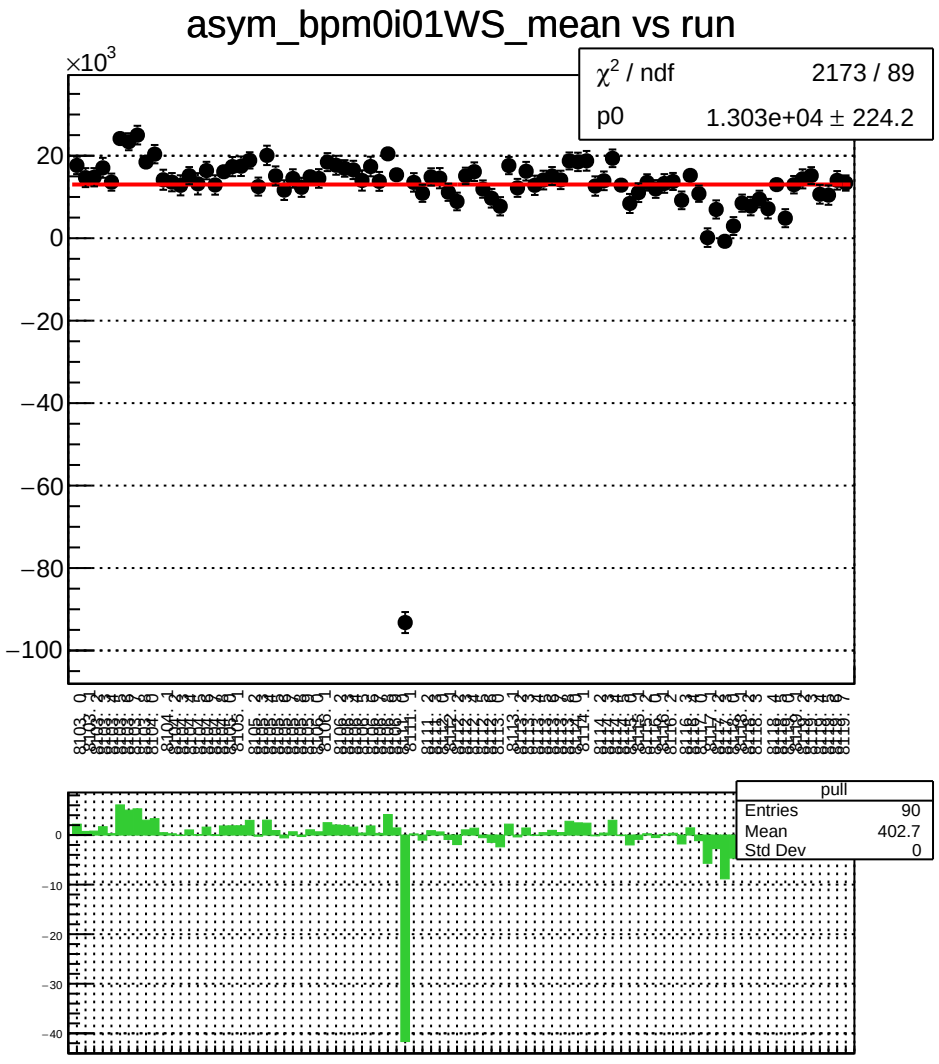

asym_bpm2i01WS_mean vs run
χ² / ndf 2477 / 89
p0 1.054e+04 ± 175.8
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 303.9
Std Dev 0
0
−10
−20
−30
−40

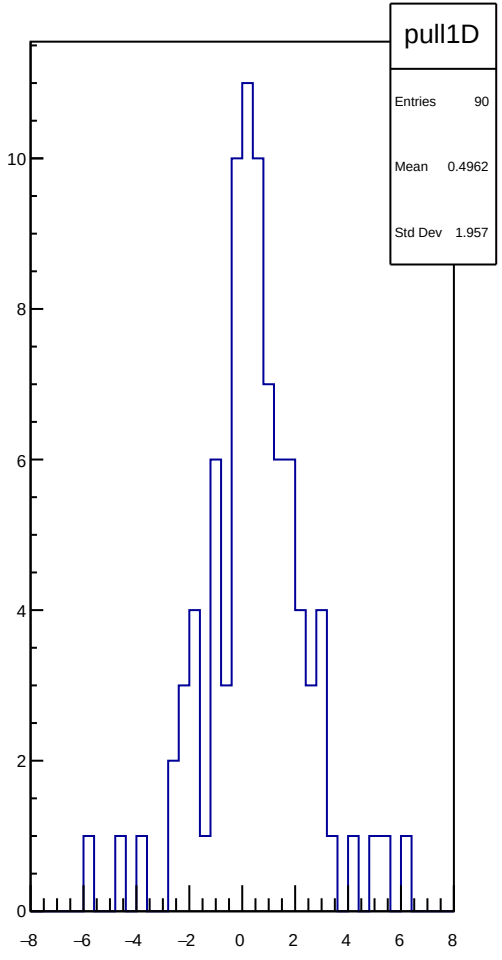

pull1D
Entries 90
Mean 0.4341
Std Dev 1.869
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

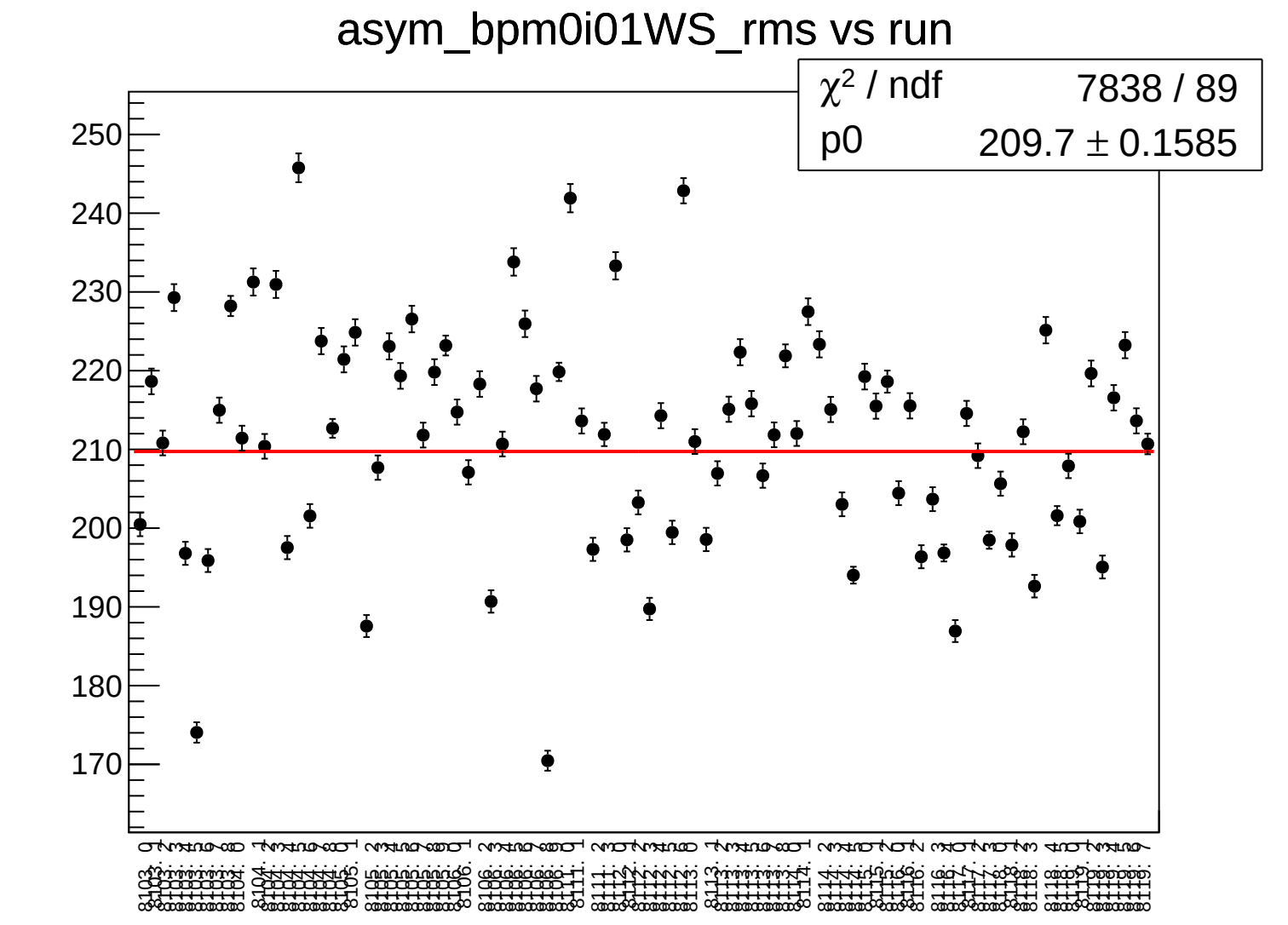

asym_bpm2i01WS_rms vs run
χ² / ndf 7149 / 89
p0 164.5 ± 0.1243
200
190
180
170
160
150
140

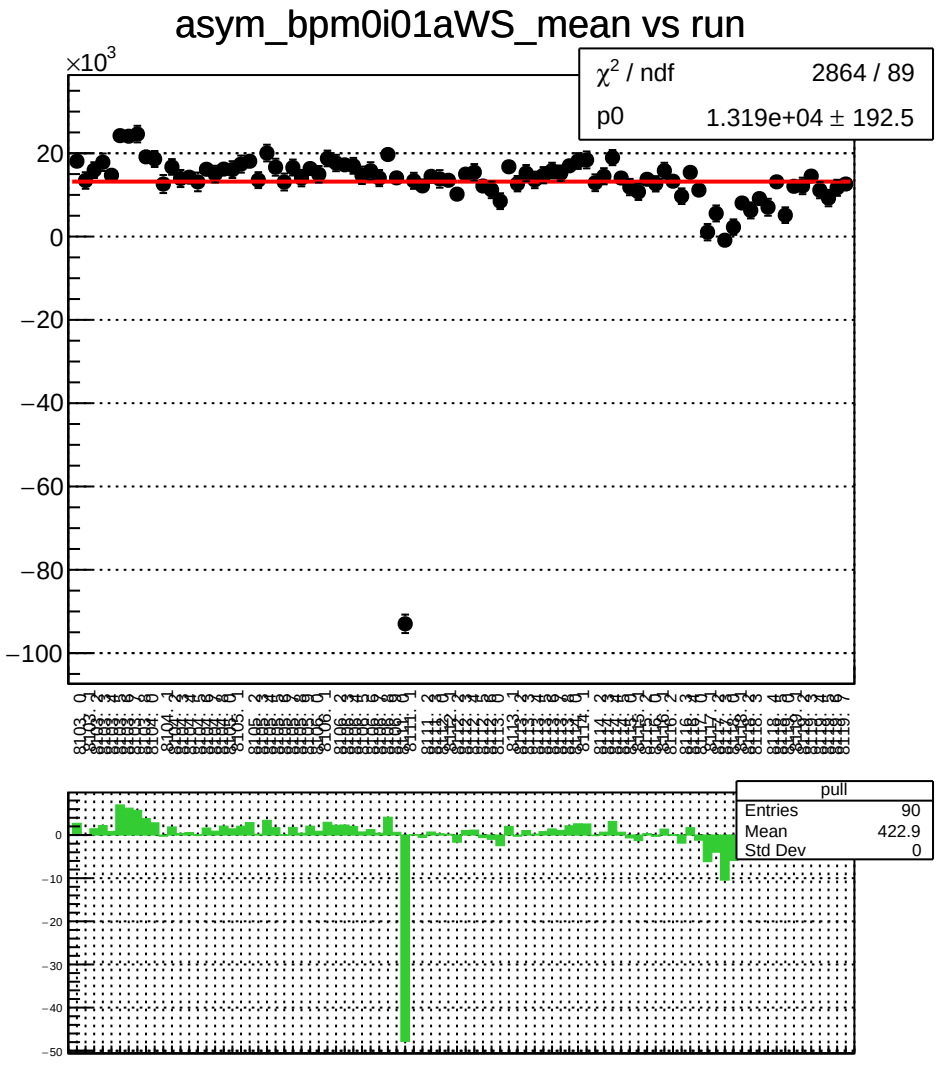

asym_bpm2i02WS_mean vs run
χ² / ndf 2229 / 89
p0 1.067e+04 ± 186.3
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 292
Std Dev 0
0
−10
−20
−30
−40
pull1D
Entries 90
Mean 0.4026
Std Dev 1.828
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

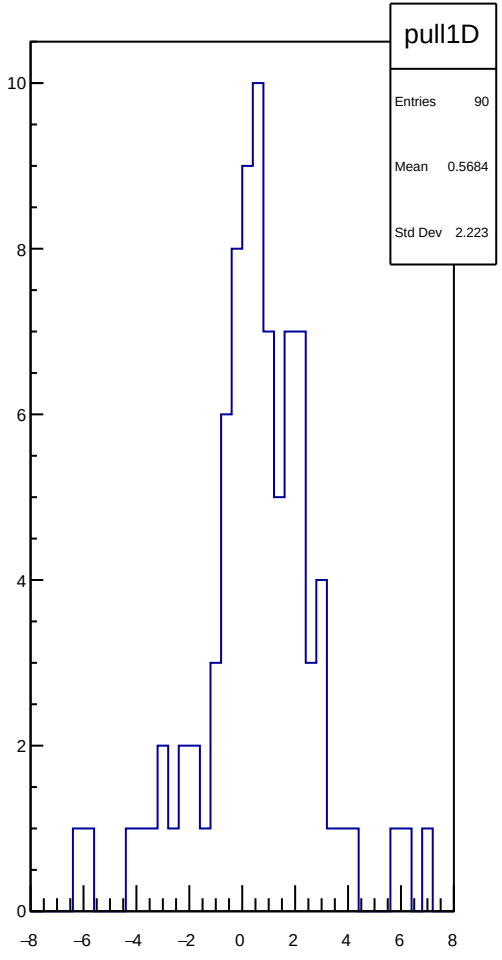

asym_bpm2i02WS_rms vs run
χ² / ndf 9258 / 89
p0 174.2 ± 0.1317
210
200
190
180
170
160
150
140

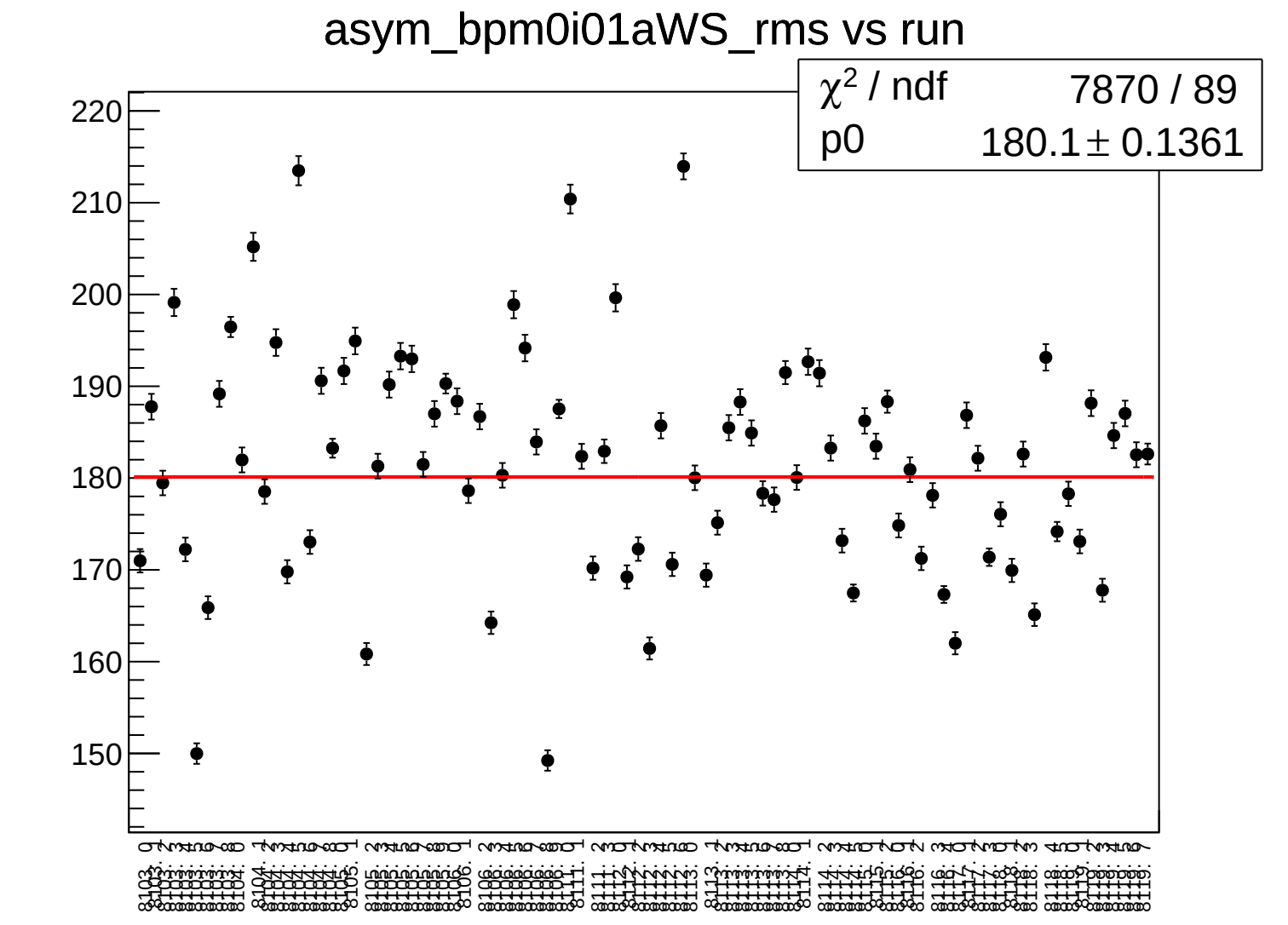

asym_bpm0i01WS_mean vs run
×10^3
χ² / ndf 2173 / 89
p0 1.303e+04 ± 224.2
20
0
−20
−40
−60
−80
−100
pull
Entries 90
Mean 402.7
Std Dev 0
0
−10
−20
−30
−40

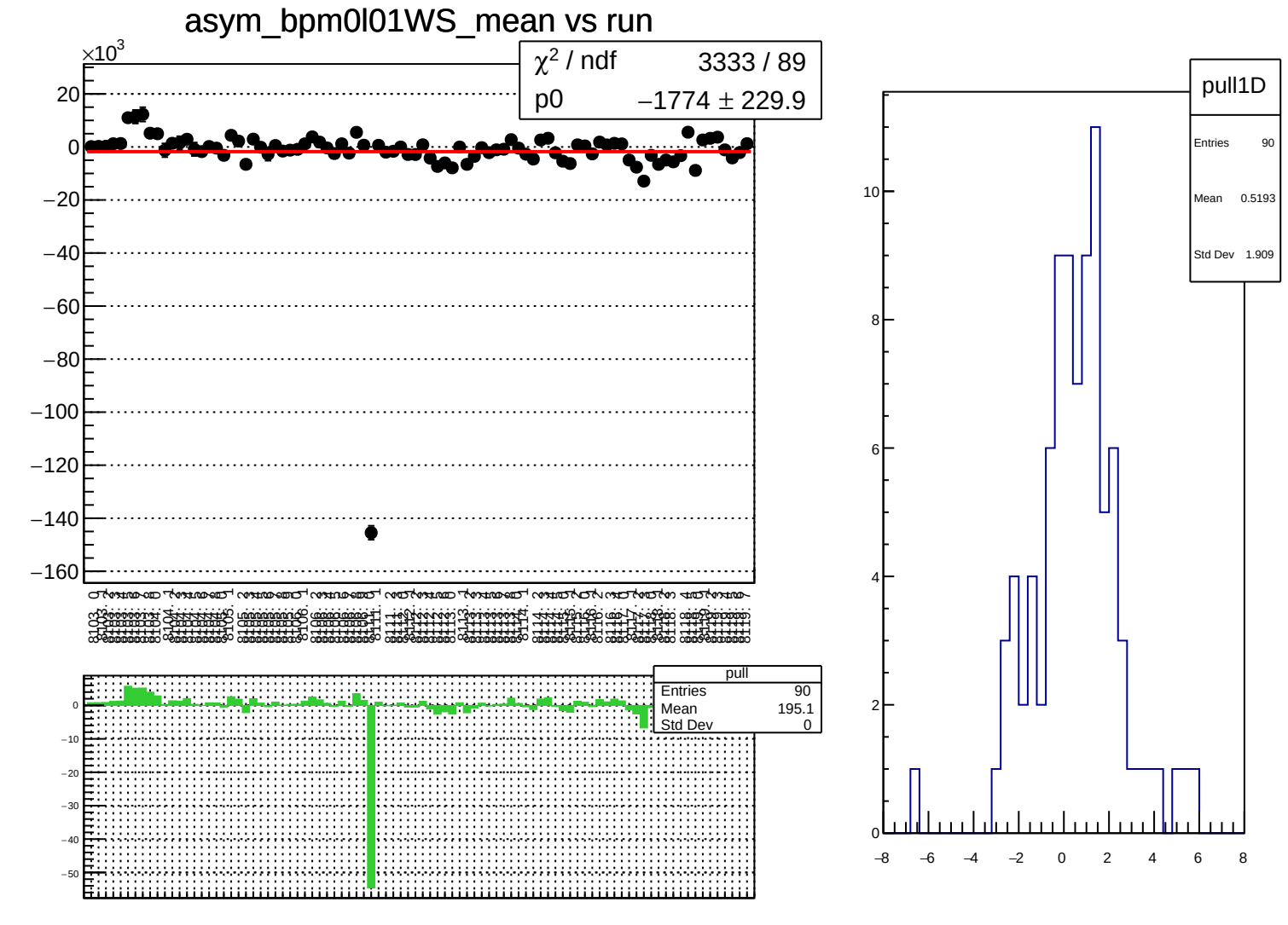

pull1D
Entries 90
Mean 0.4962
Std Dev 1.957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

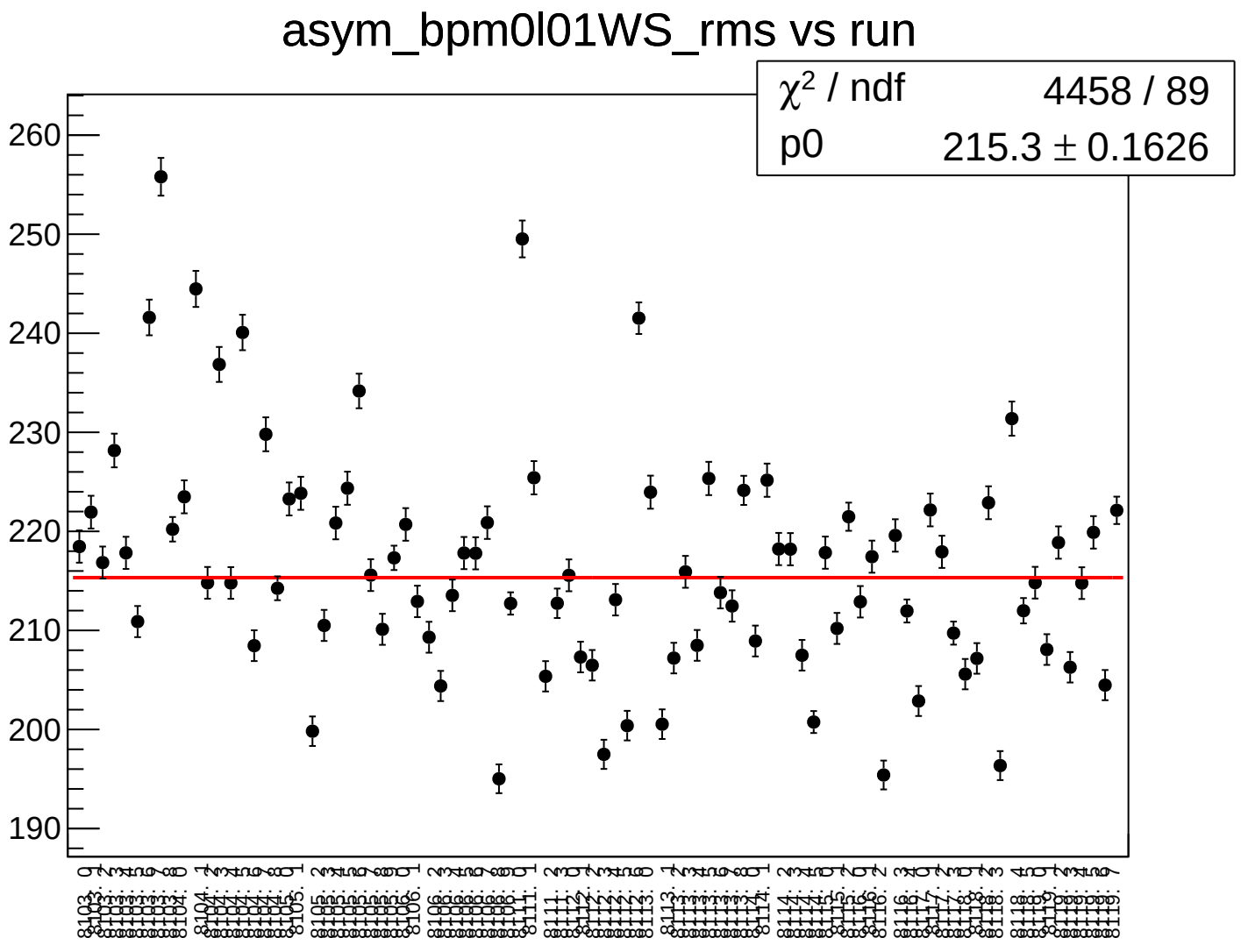

asym_bpm0i01WS_rms vs run
χ² / ndf 7838 / 89
p0 209.7 ± 0.1585
250
240
230
220
210
200
190
180
170

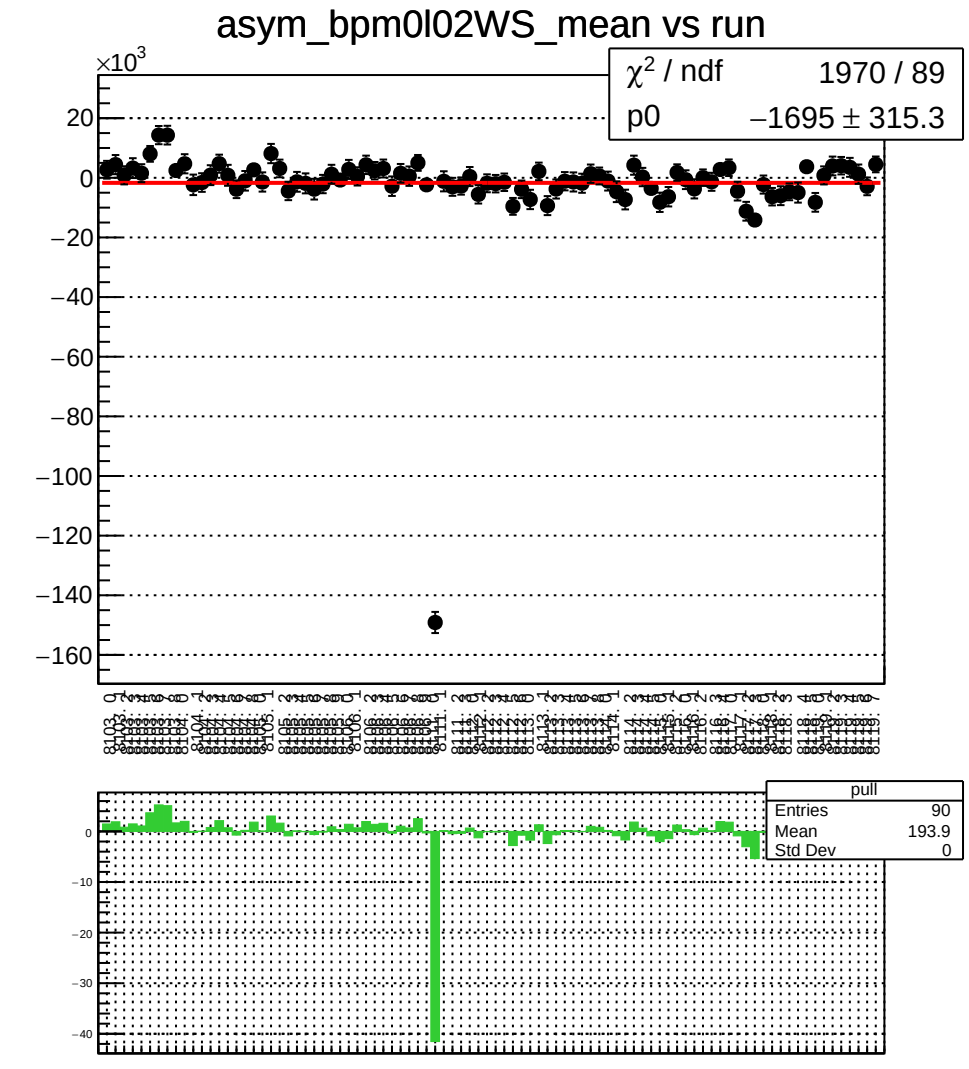

asym_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2864 / 89
p0 1.319e+04 ± 192.5
20
0
−20
−40
−60
−80
−100
pull
Entries 90
Mean 422.9
Std Dev 0
0
−10
−20
−30
−40
−50

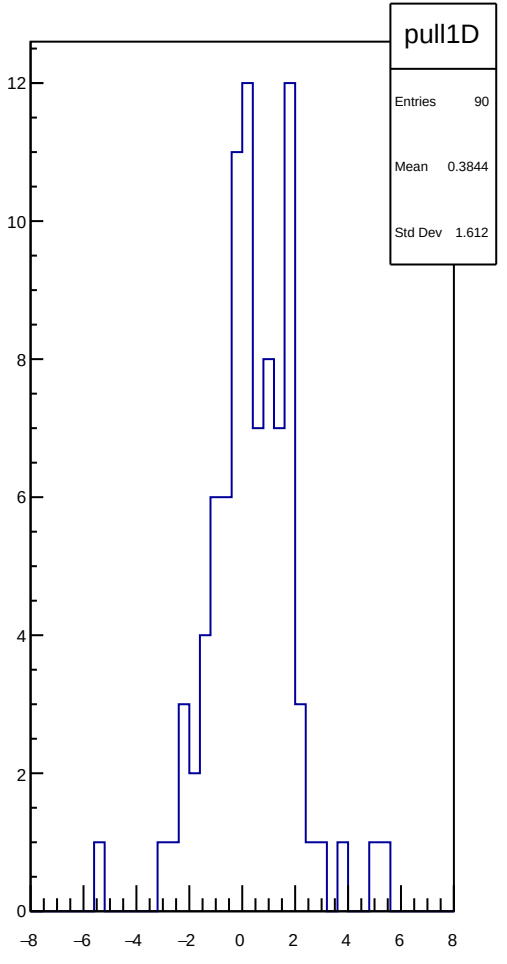

pull1D
Entries 90
Mean 0.5684
Std Dev 2.223
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

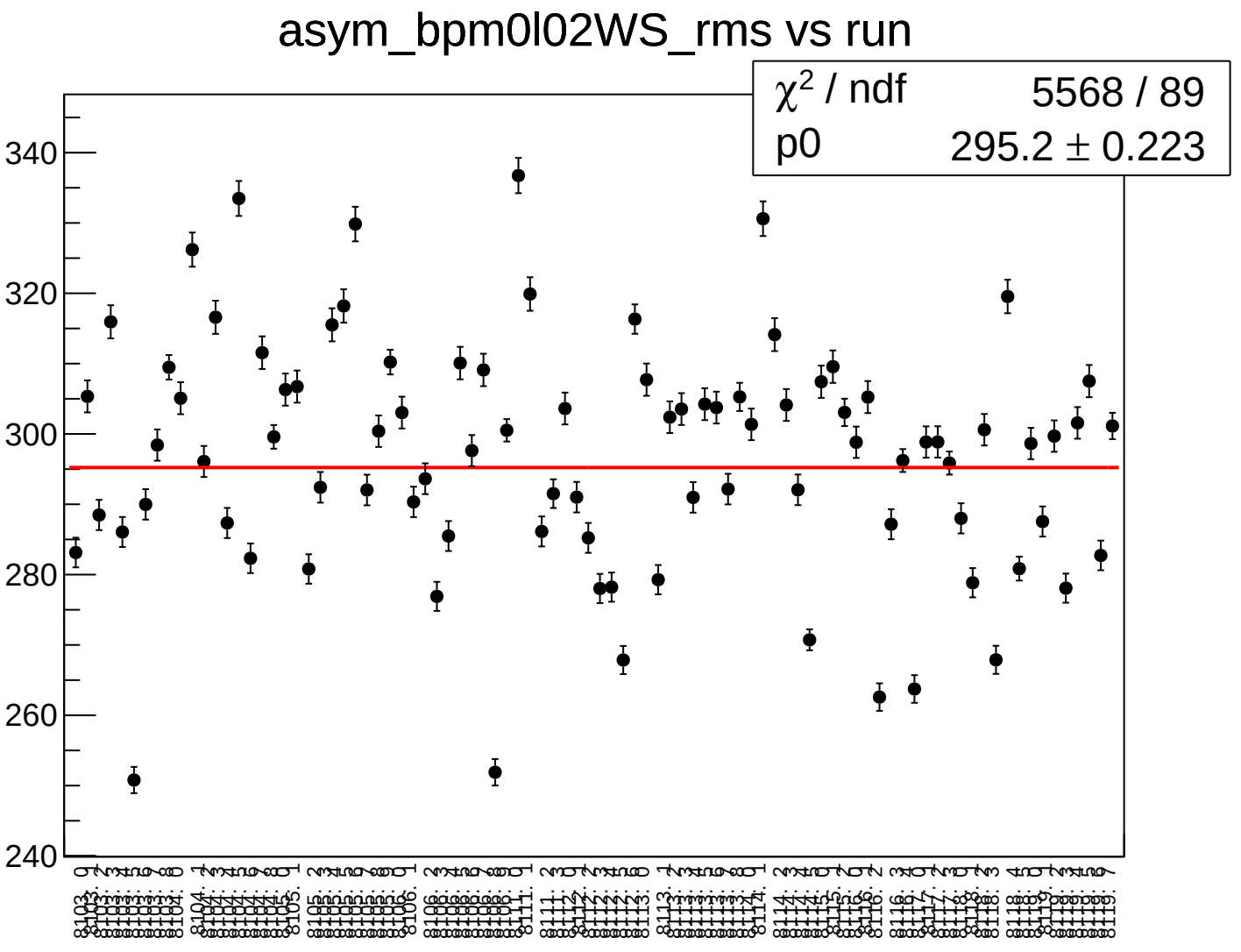

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 7870 / 89
p0 180.1 ± 0.1361
220
210
200
190
180
170
160
150

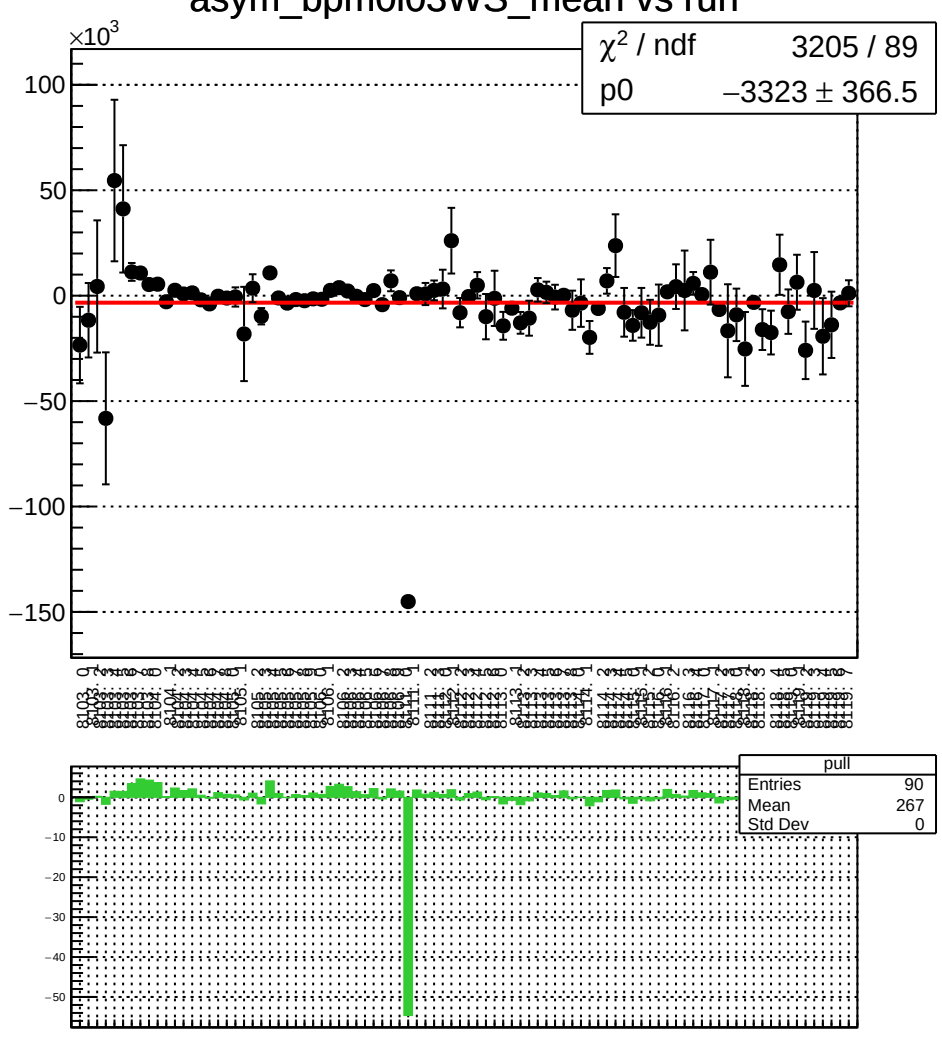

asym_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 3333 / 89
p0 −1774 ± 229.9
pull
Entries 90
Mean 195.1
Std Dev 0
pull1D
Entries 90
Mean 0.5193
Std Dev 1.909

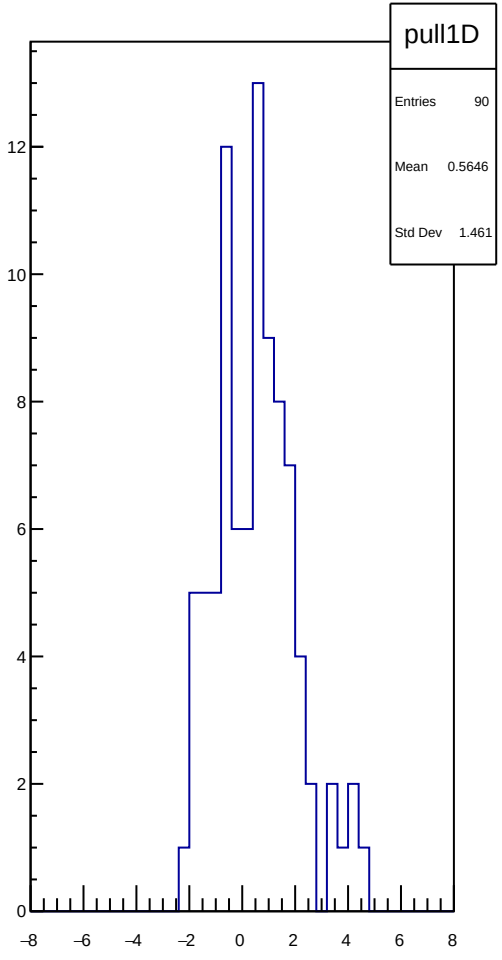

asym_bpm0l01WS_rms vs run
χ² / ndf 4458 / 89
p0 215.3 ± 0.1626
260
250
240
230
220
210
200
190

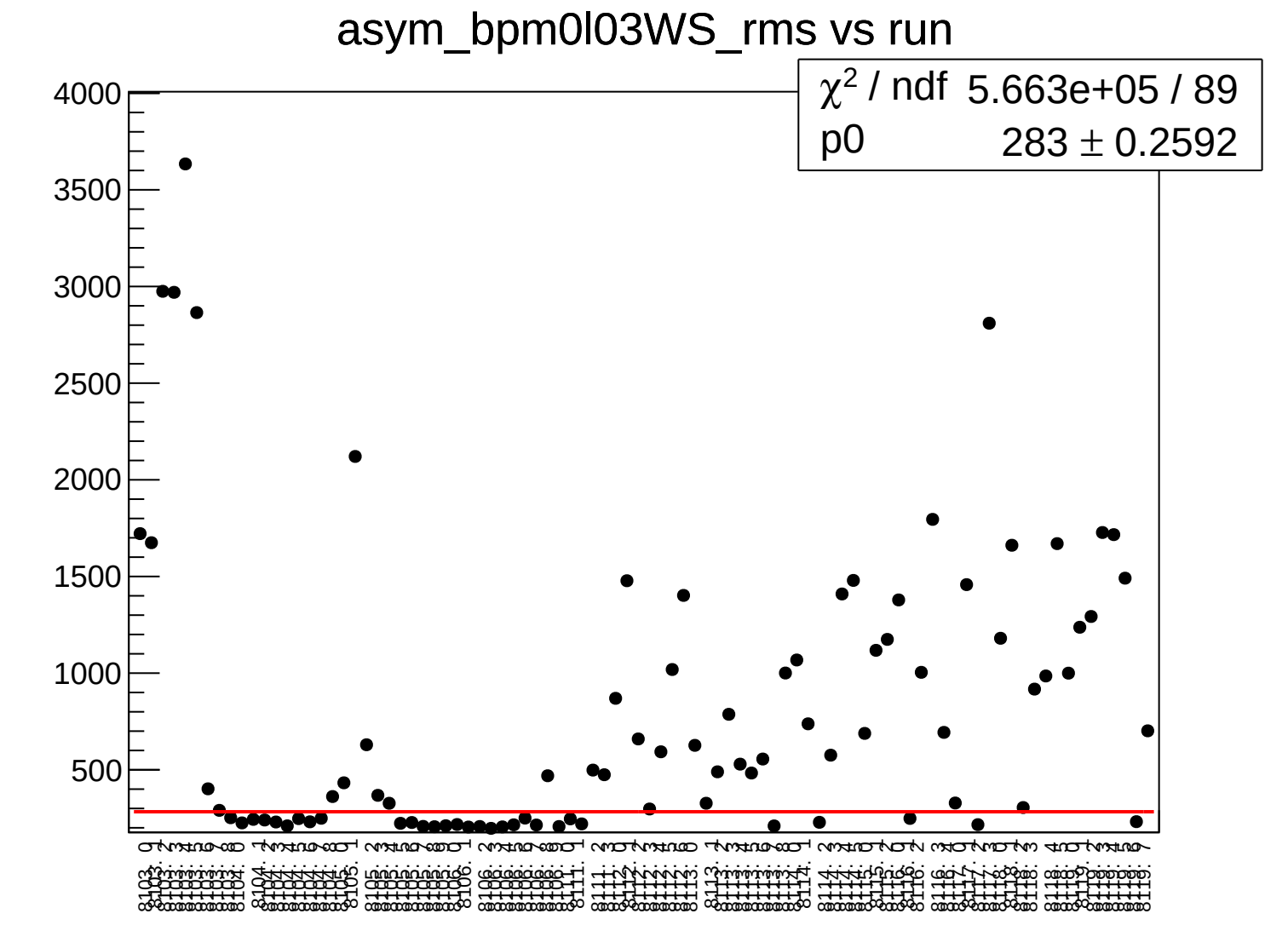

asym_bpm0l02WS_mean vs run
×10^3
χ^2 / ndf 1970 / 89
p0 −1695 ± 315.3
pull
Entries 90
Mean 193.9
Std Dev 0

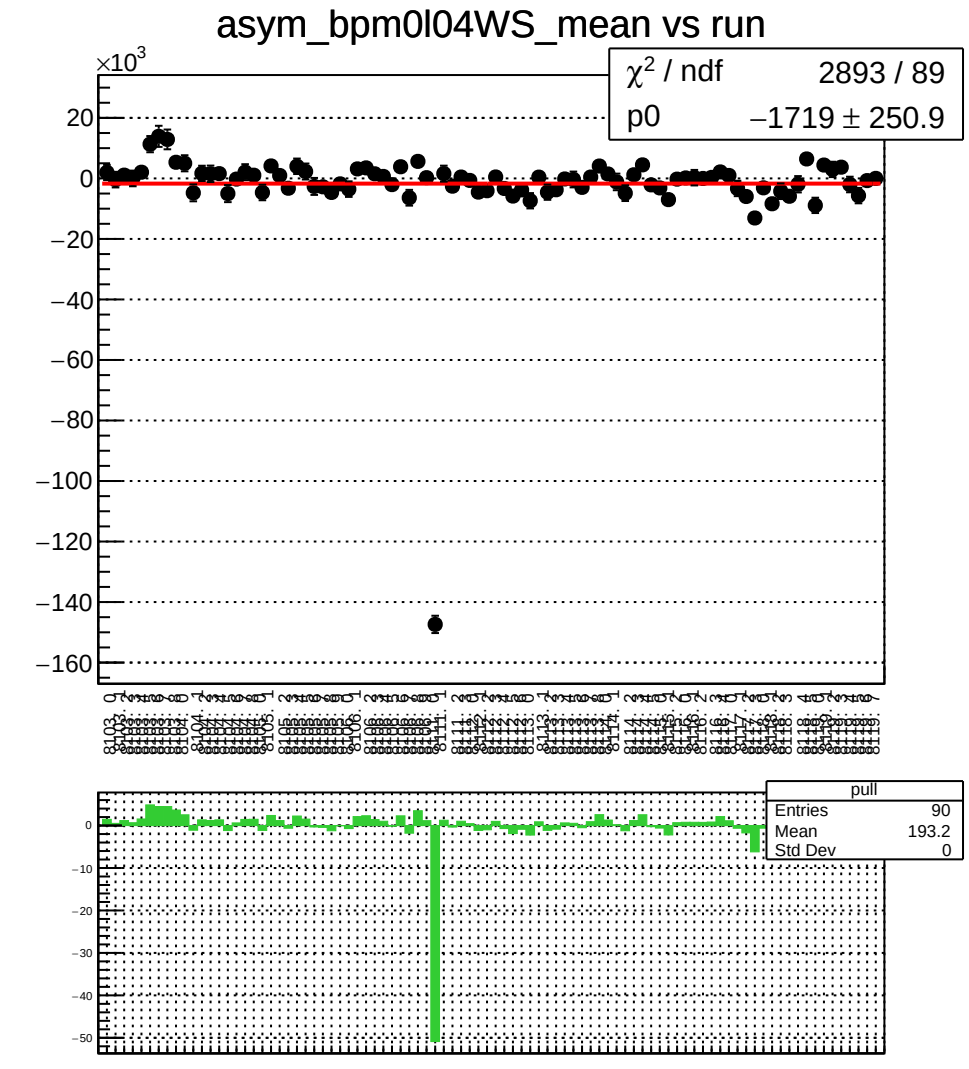

pull1D
Entries 90
Mean 0.3844
Std Dev 1.612

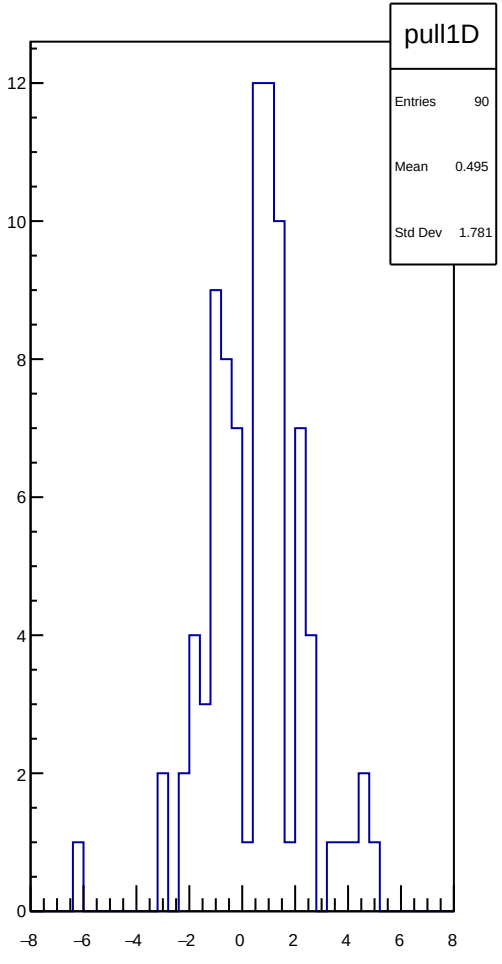

asym_bpm0l02WS_rms vs run
χ² / ndf 5568 / 89
p0 295.2 ± 0.223
340
320
300
280
260
240

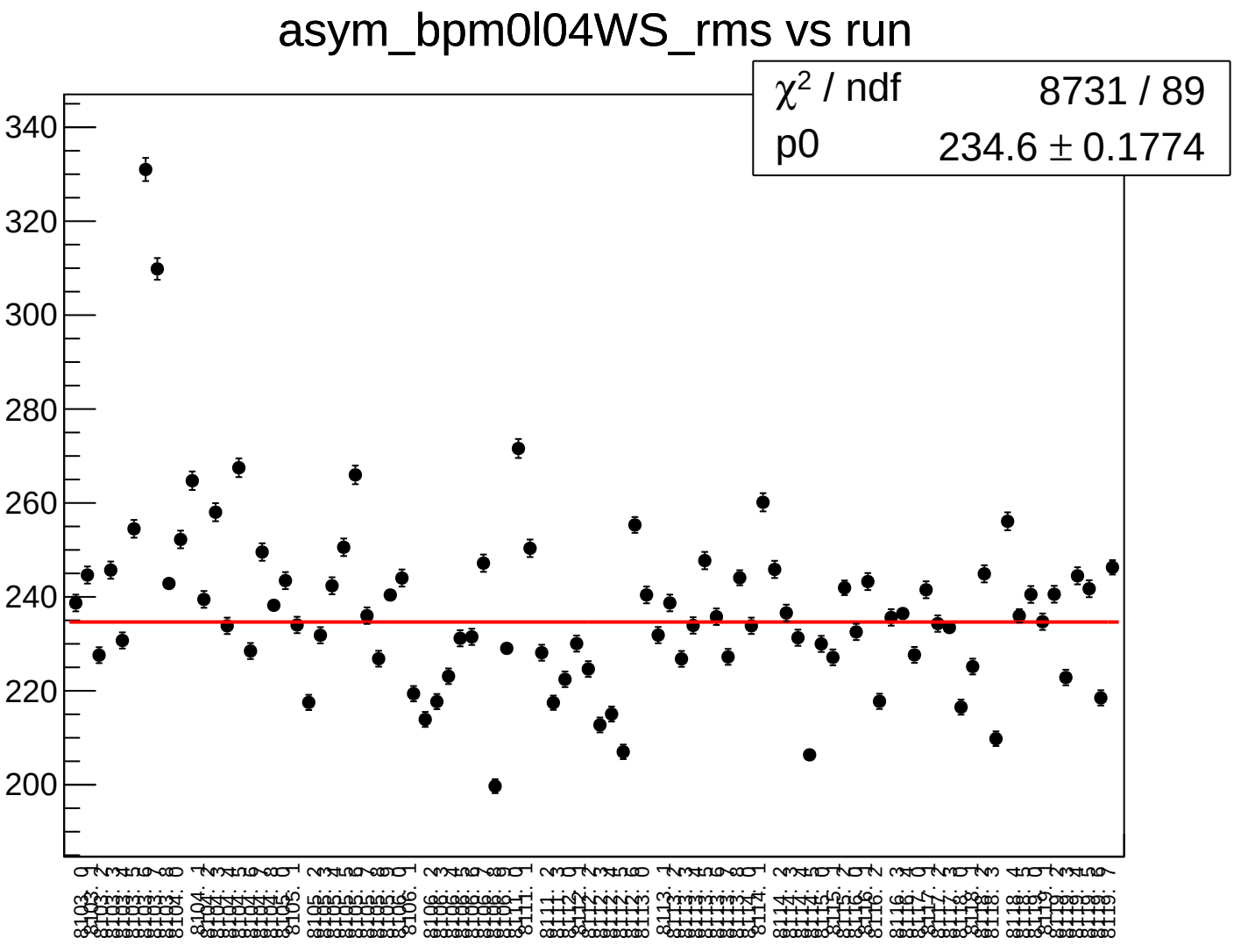

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3205 / 89
p0 −3323 ± 366.5
100
50
0
−50
−100
−150
pull
Entries 90
Mean 267
Std Dev 0
0
−10
−20
−30
−40
−50

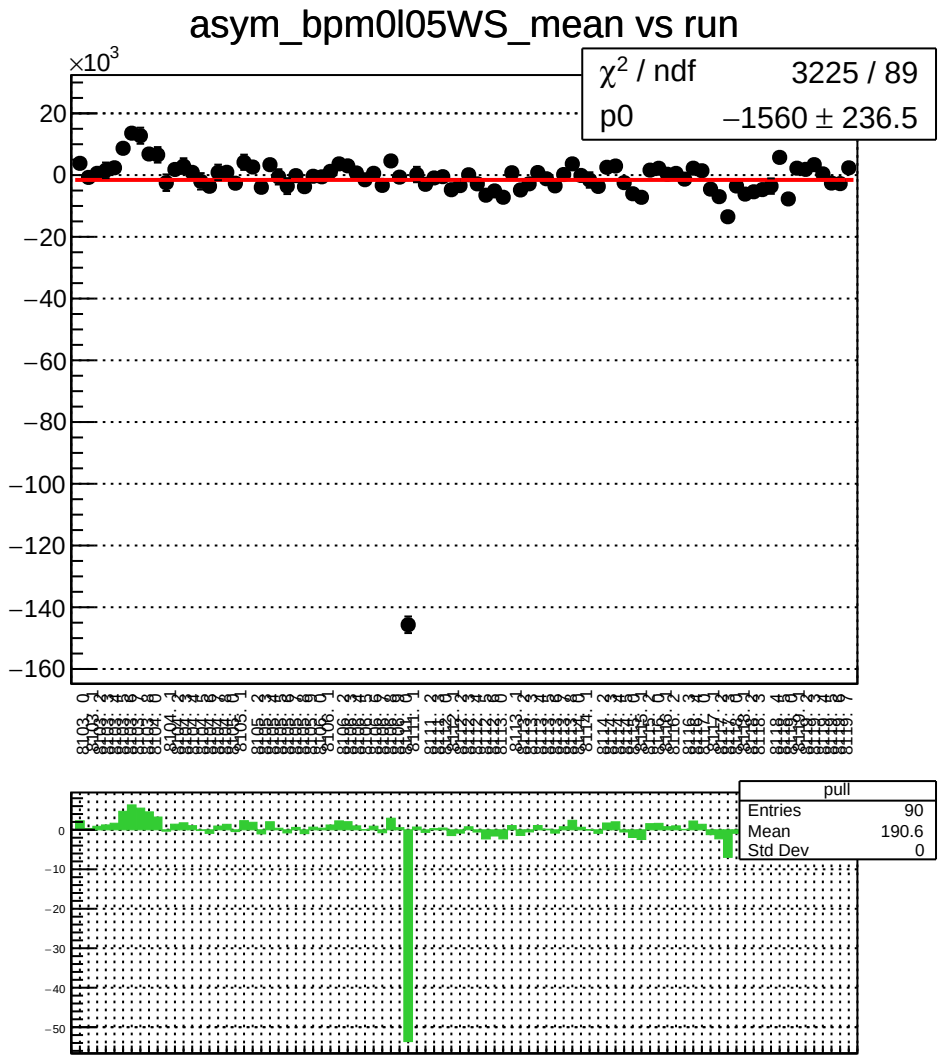

pull1D
Entries 90
Mean 0.5646
Std Dev 1.461
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

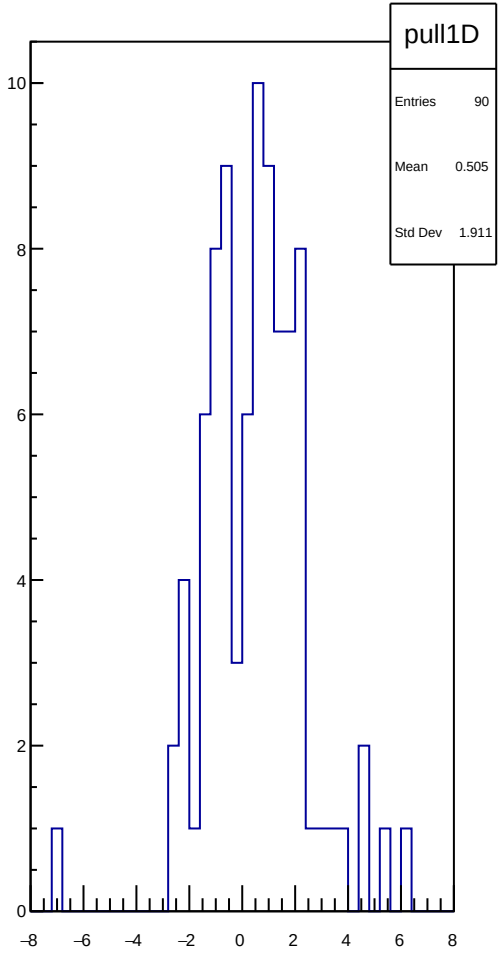

asym_bpm0l03WS_rms vs run
χ^2 / ndf 5.663e+05 / 89
p0 283 ± 0.2592
4000
3500
3000
2500
2000
1500
1000
500

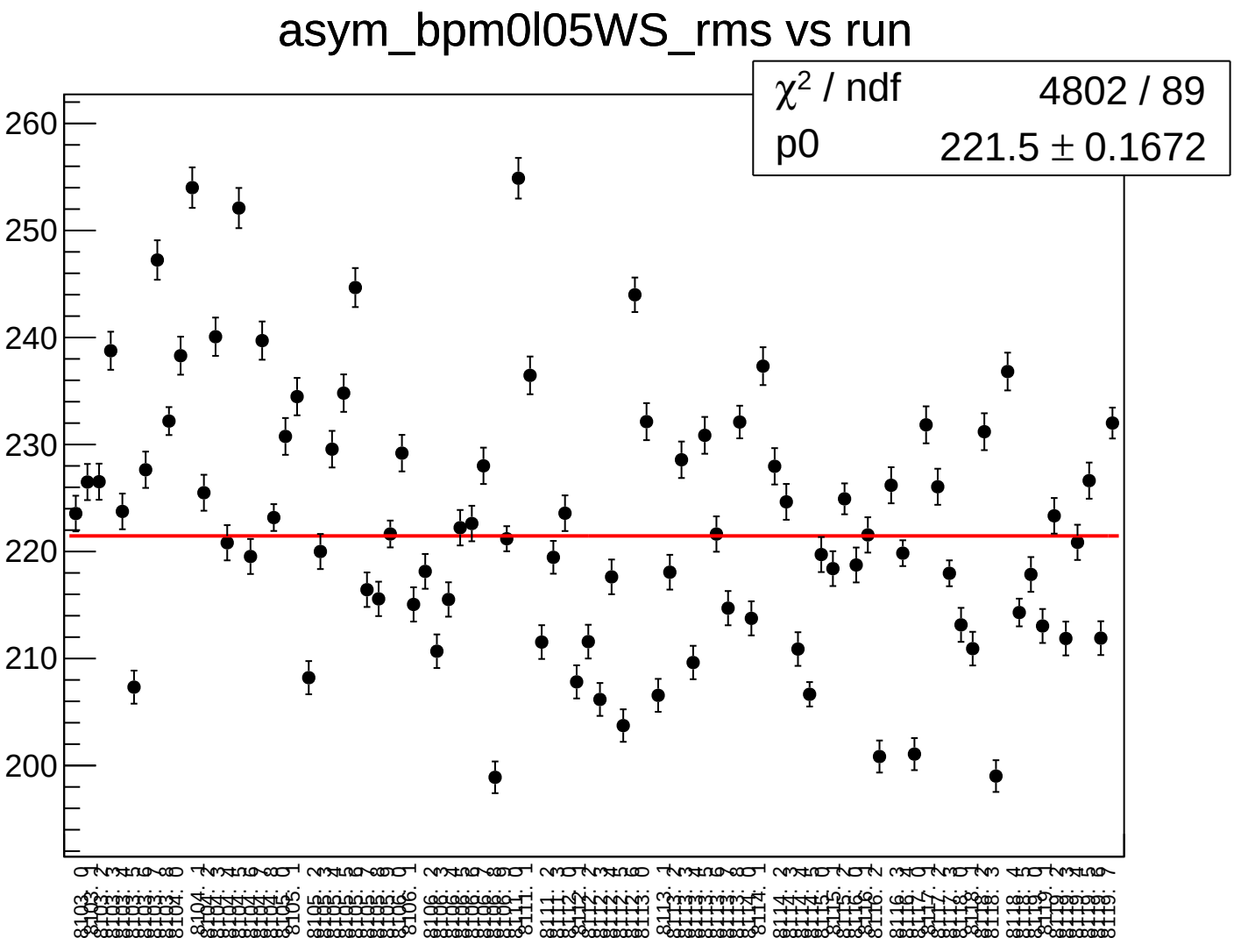

asym_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 2893 / 89
p0 −1719 ± 250.9
pull
Entries 90
Mean 193.2
Std Dev 0

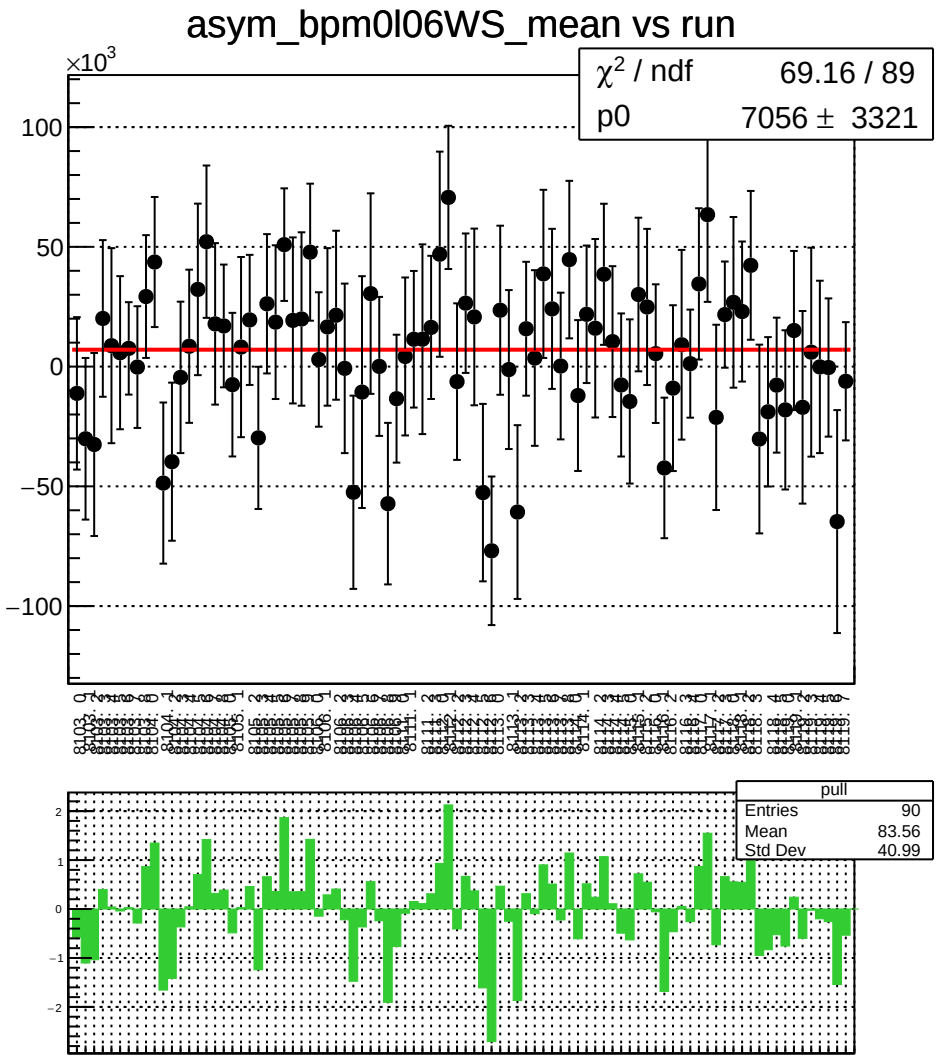

pull1D
Entries 90
Mean 0.495
Std Dev 1.781

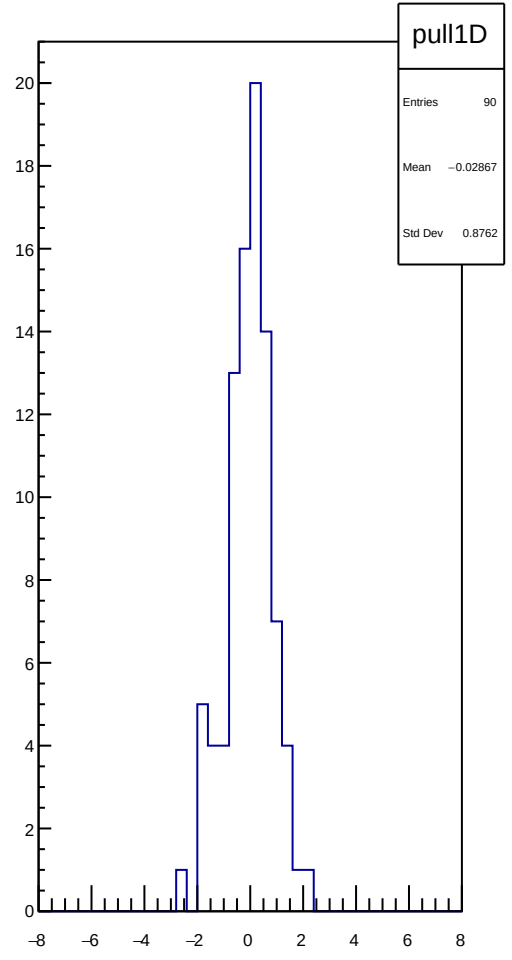

asym_bpm0l04WS_rms vs run
χ² / ndf 8731 / 89
p0 234.6 ± 0.1774
340
320
300
280
260
240
220
200

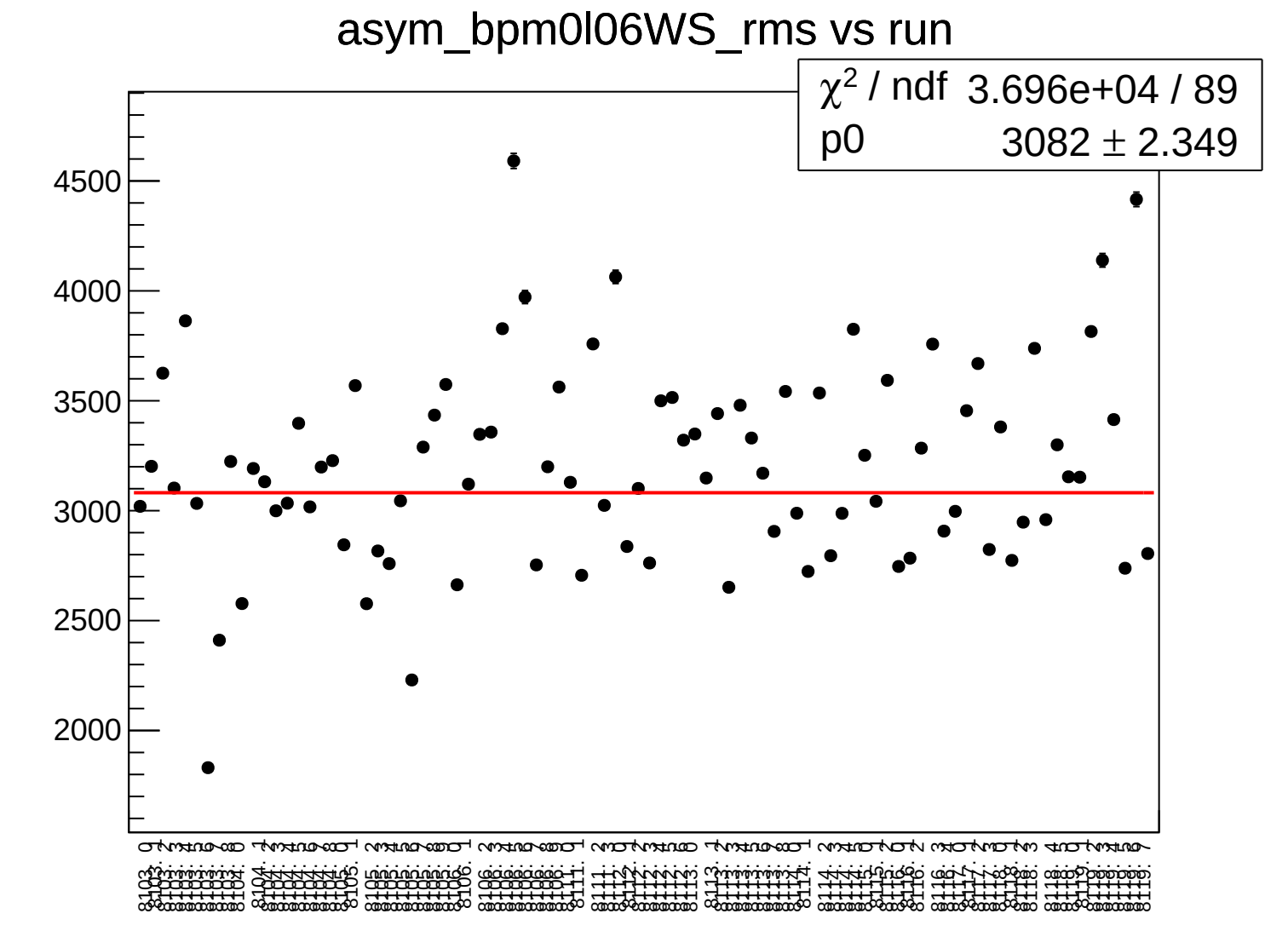

asym_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 3225 / 89
p0 −1560 ± 236.5
pull
Entries 90
Mean 190.6
Std Dev 0

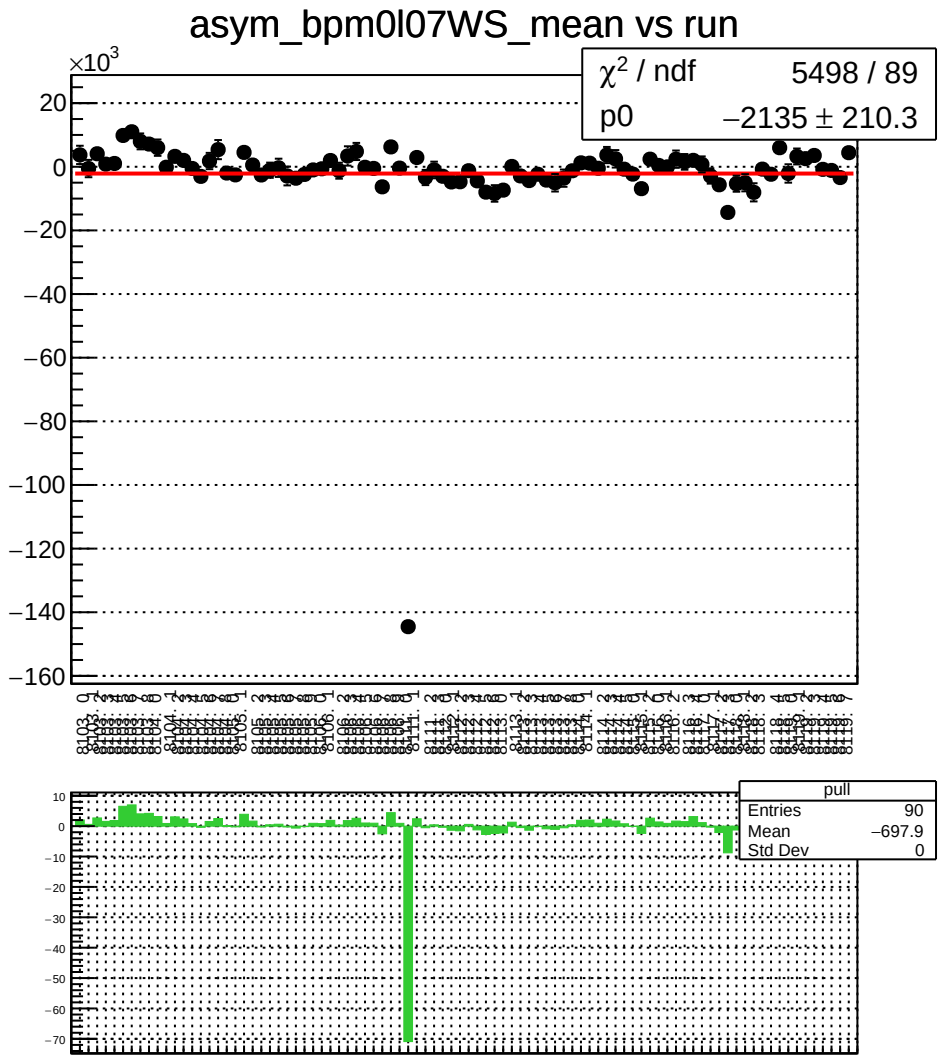

pull1D
Entries 90
Mean 0.505
Std Dev 1.911

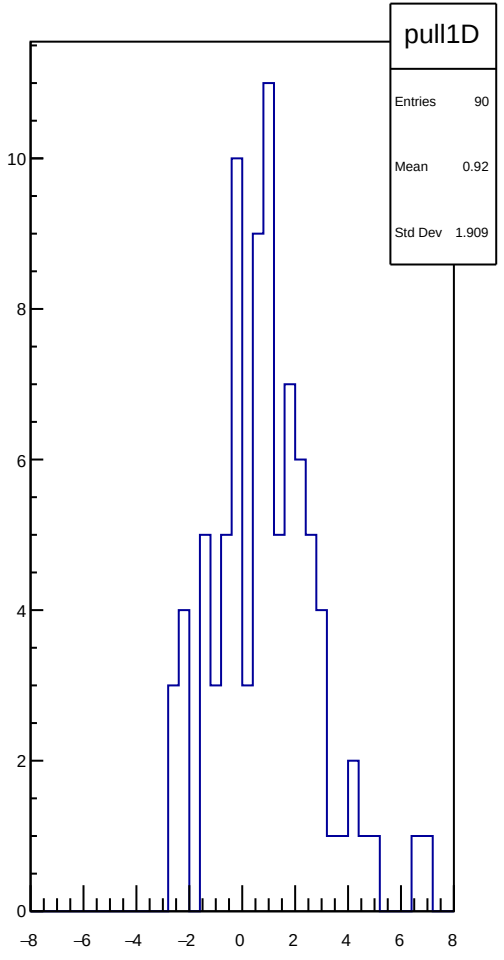

asym_bpm0l05WS_rms vs run
χ² / ndf 4802 / 89
p0 221.5 ± 0.1672
260
250
240
230
220
210
200

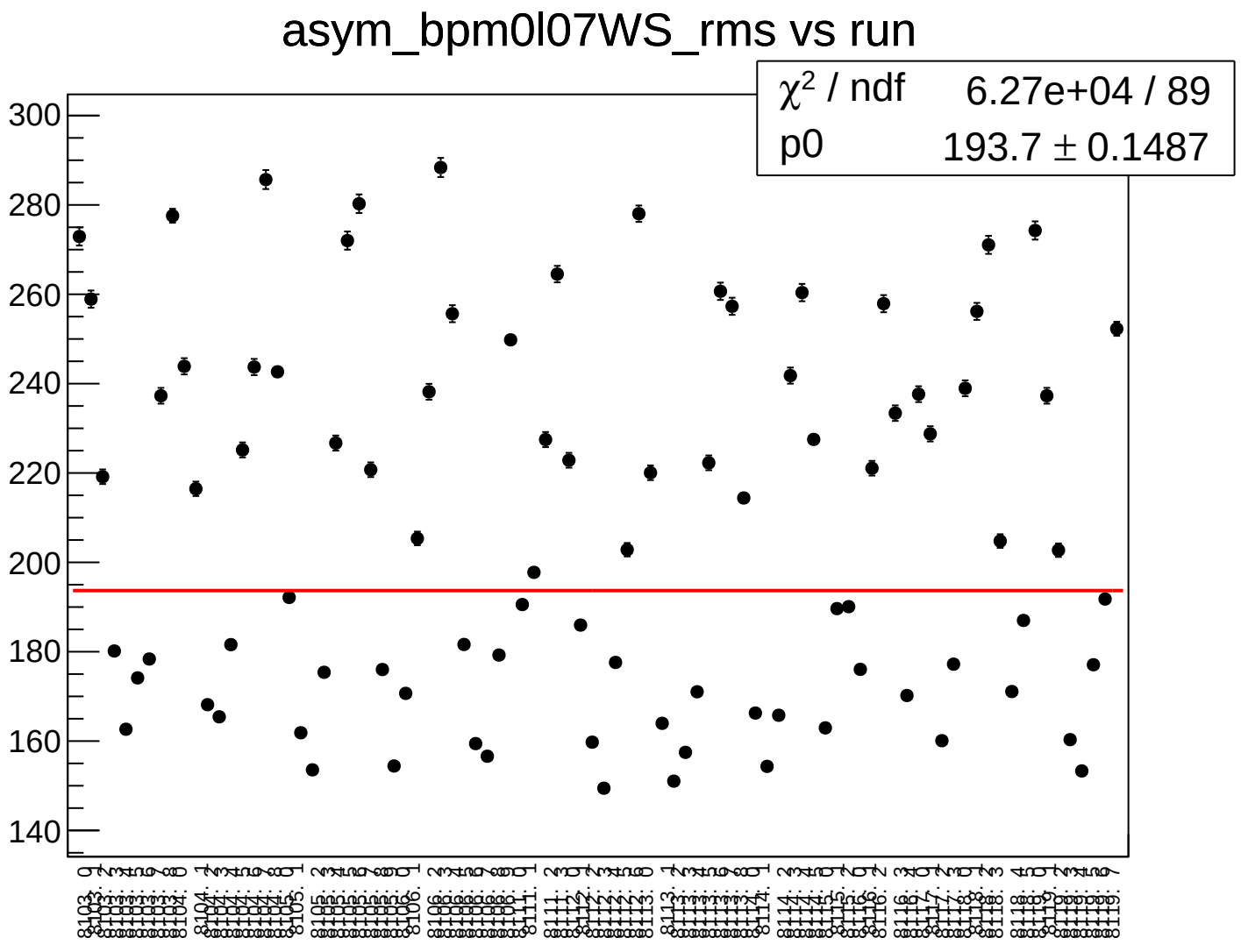

asym_bpm0l06WS_mean vs run
×10^3
χ² / ndf 69.16 / 89
p0 7056 ± 3321
100
50
0
−50
−100
pull
Entries 90
Mean 83.56
Std Dev 40.99
2
1
0
−1
−2

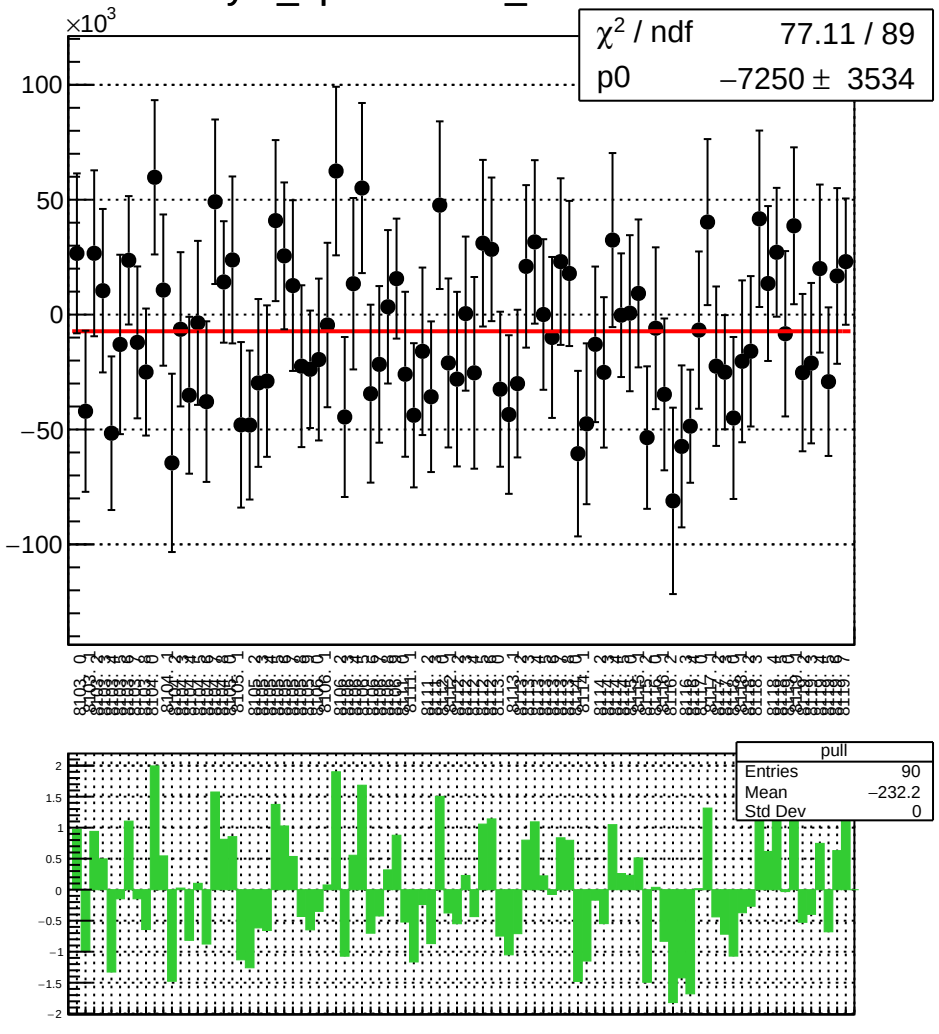

pull1D
Entries 90
Mean −0.02867
Std Dev 0.8762
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

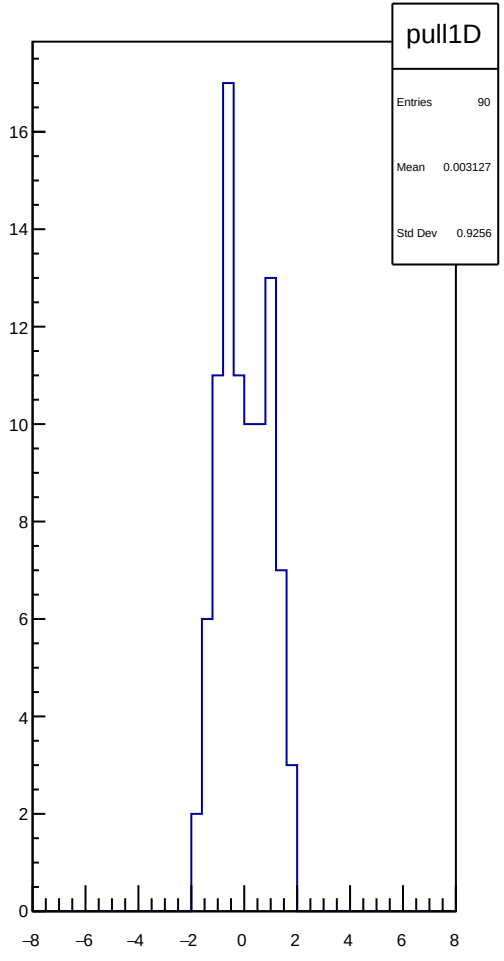

asym_bpm0l06WS_rms vs run
χ² / ndf 3.696e+04 / 89
p0 3082 ± 2.349
4500
4000
3500
3000
2500
2000

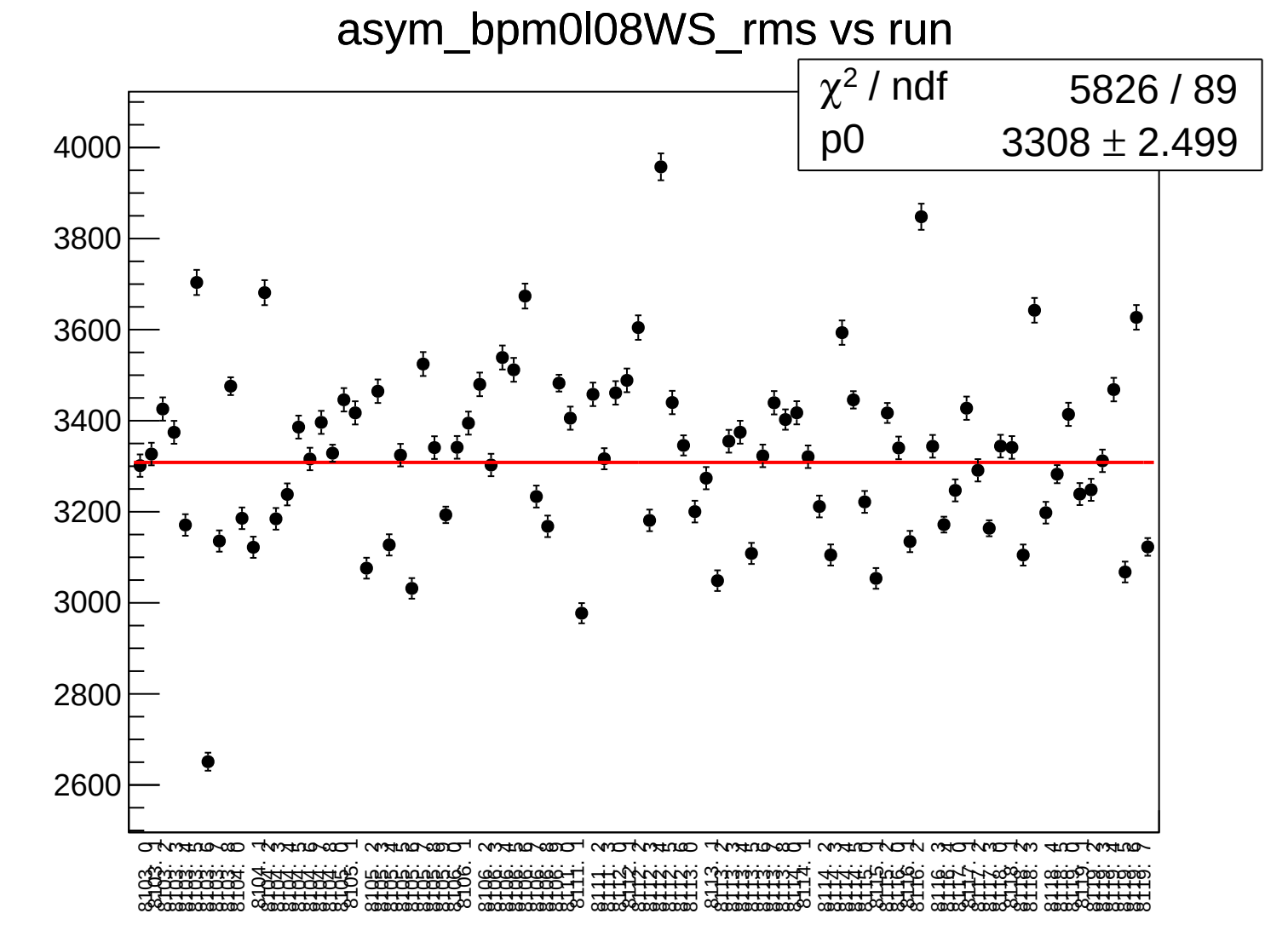

asym_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 5498 / 89
p0 −2135 ± 210.3
20
0
−20
−40
−60
−80
−100
−120
−140
−160
pull
Entries 90
Mean −697.9
Std Dev 0
10
0
−10
−20
−30
−40
−50
−60
−70

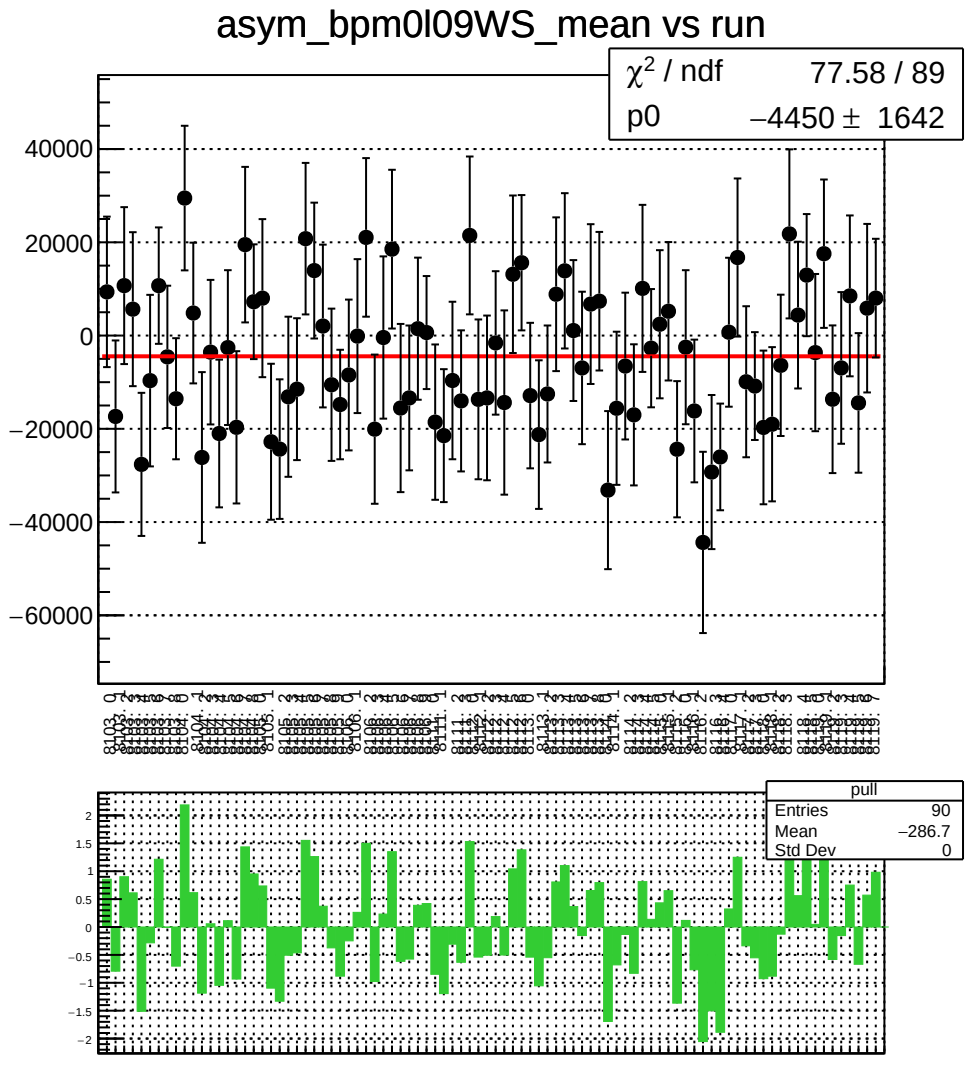

pull1D
Entries 90
Mean 0.92
Std Dev 1.909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

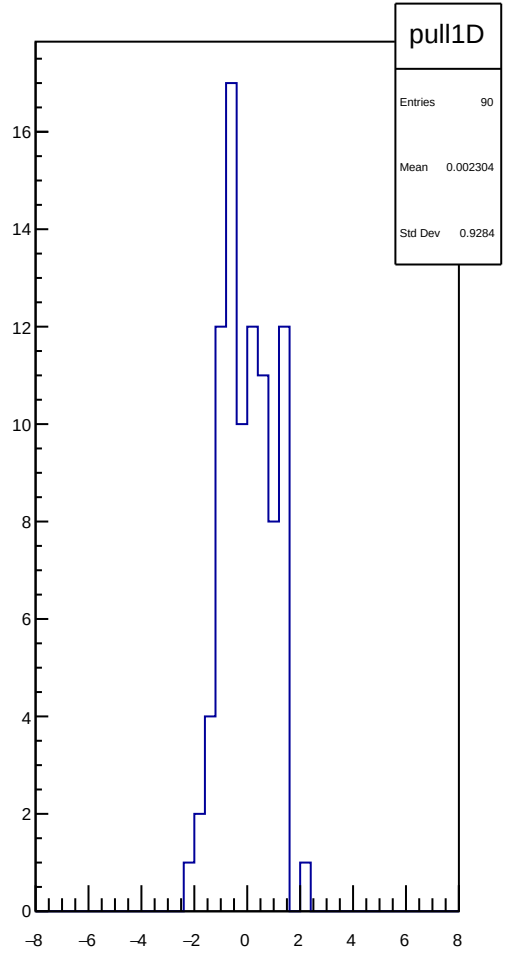

asym_bpm0l07WS_rms vs run
χ² / ndf 6.27e+04 / 89
p0 193.7 ± 0.1487
300
280
260
240
220
200
180
160
140

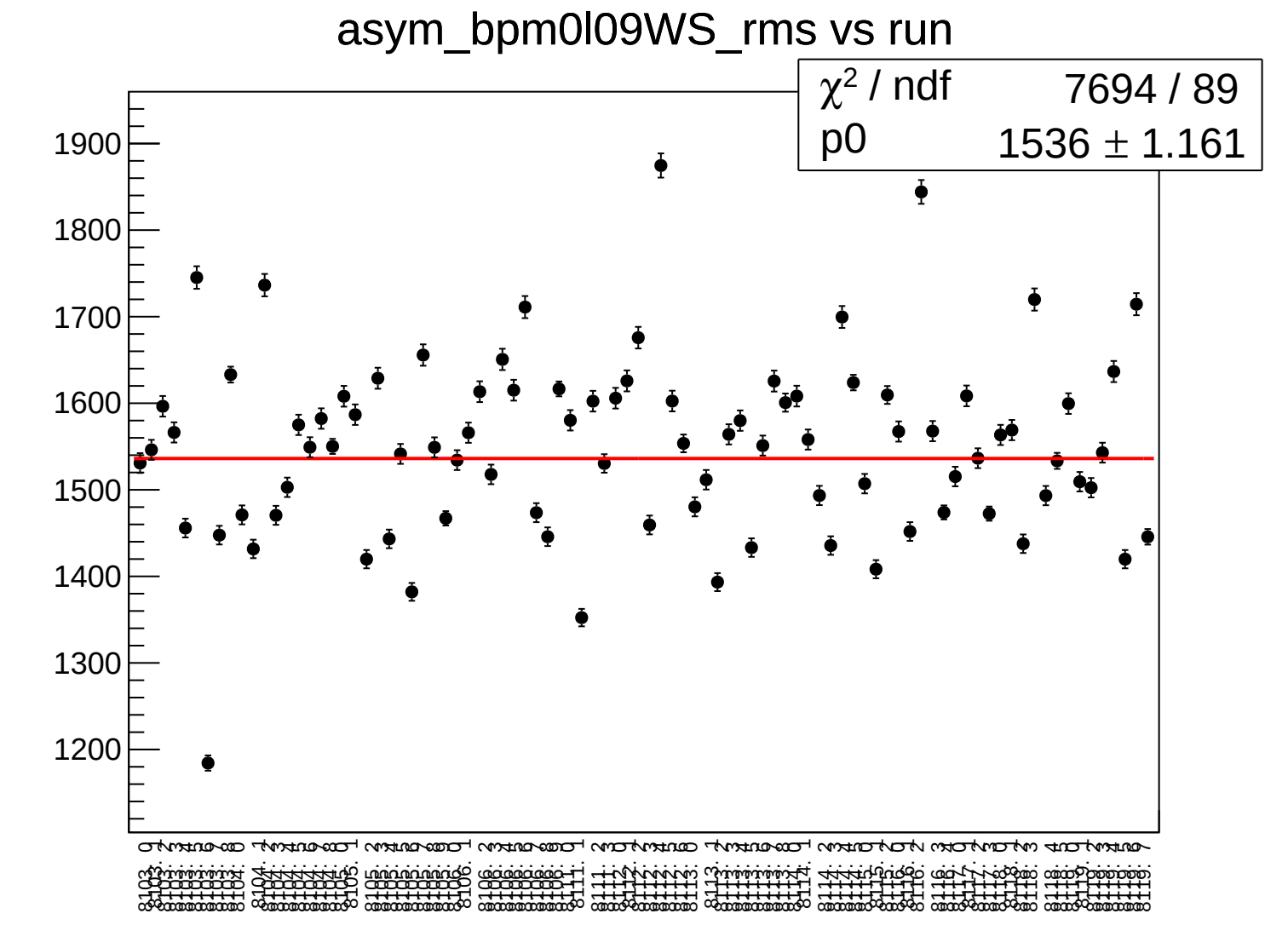

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 77.11 / 89
p0 −7250 ± 3534
100
50
0
−50
−100
pull
Entries 90
Mean −232.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

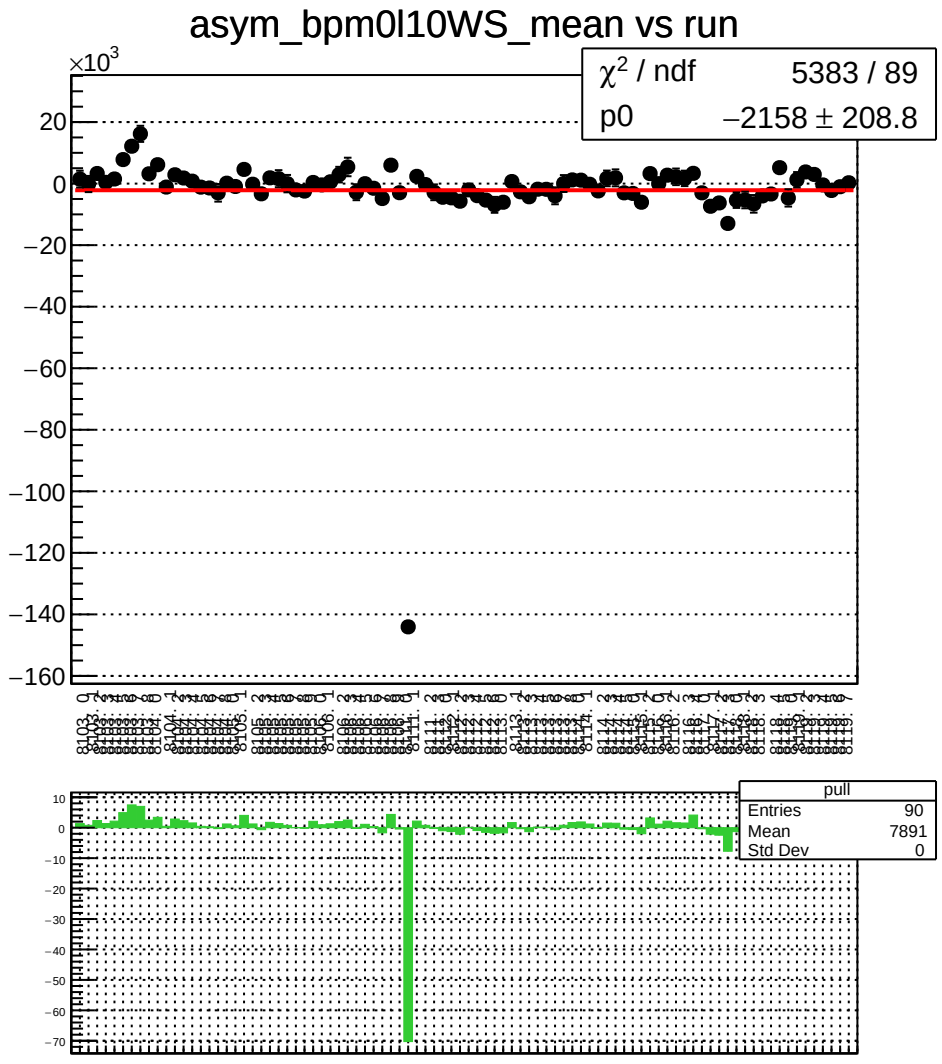

pull1D
Entries 90
Mean 0.003127
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

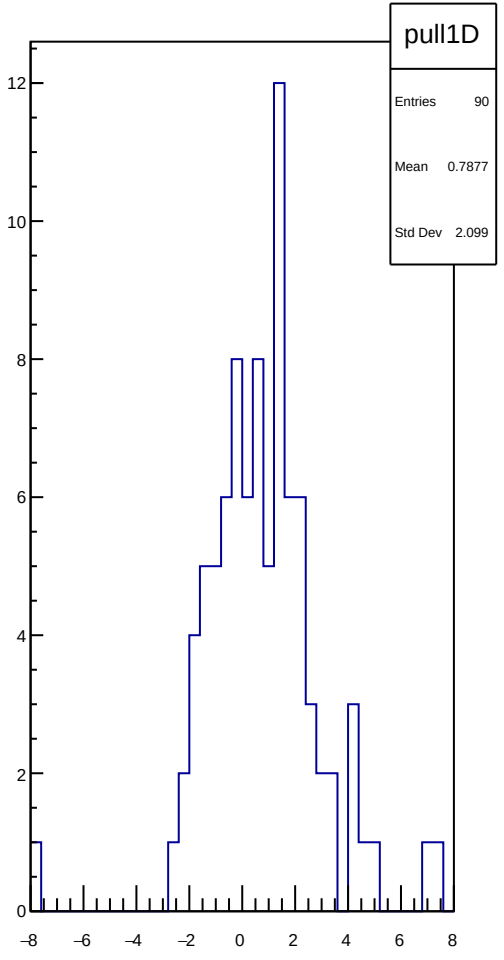

asym_bpm0l08WS_rms vs run
χ² / ndf 5826 / 89
p0 3308 ± 2.499
4000
3800
3600
3400
3200
3000
2800
2600

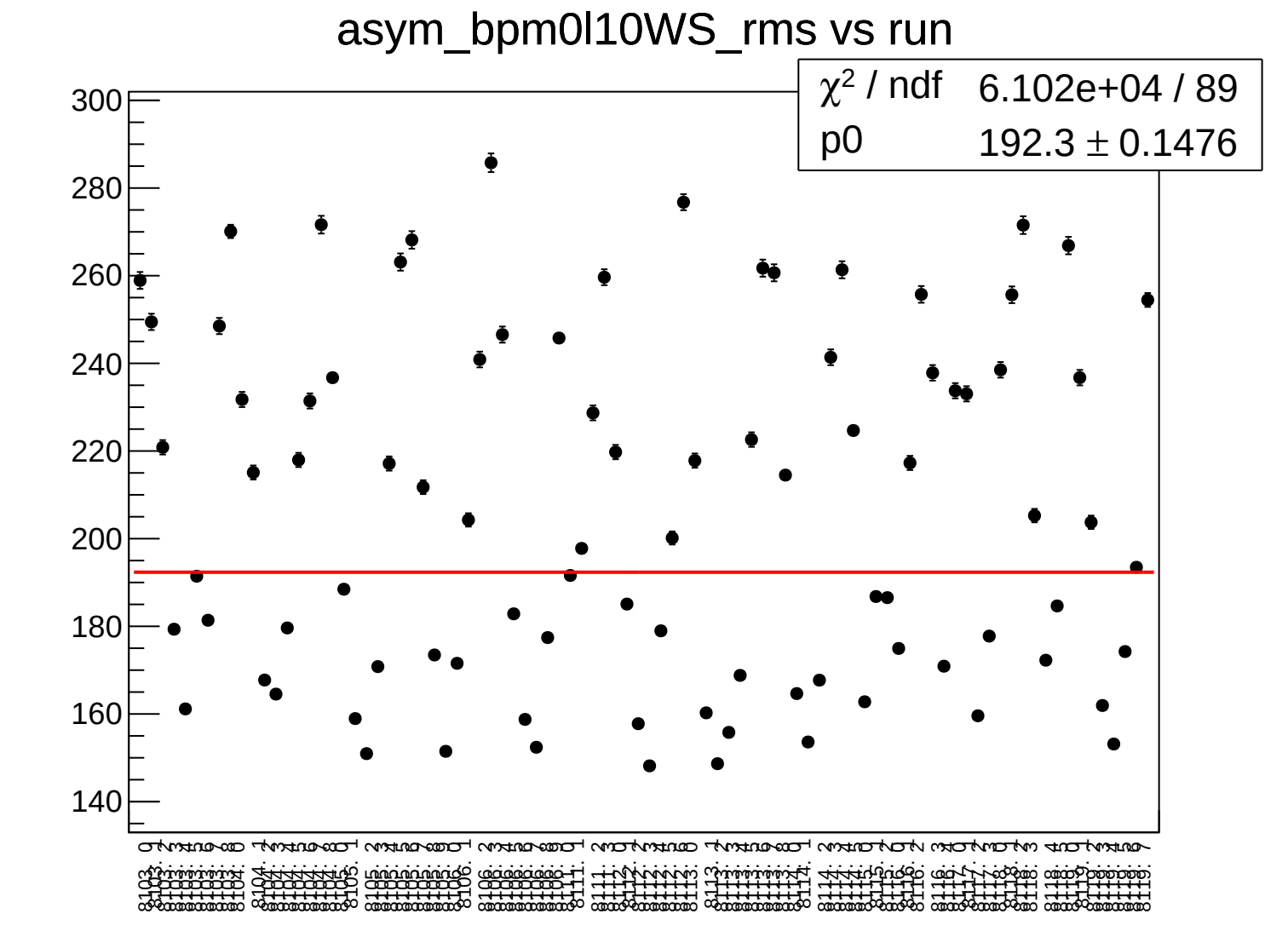

asym_bpm0l09WS_mean vs run
χ² / ndf 77.58 / 89
p0 −4450 ± 1642
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −286.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

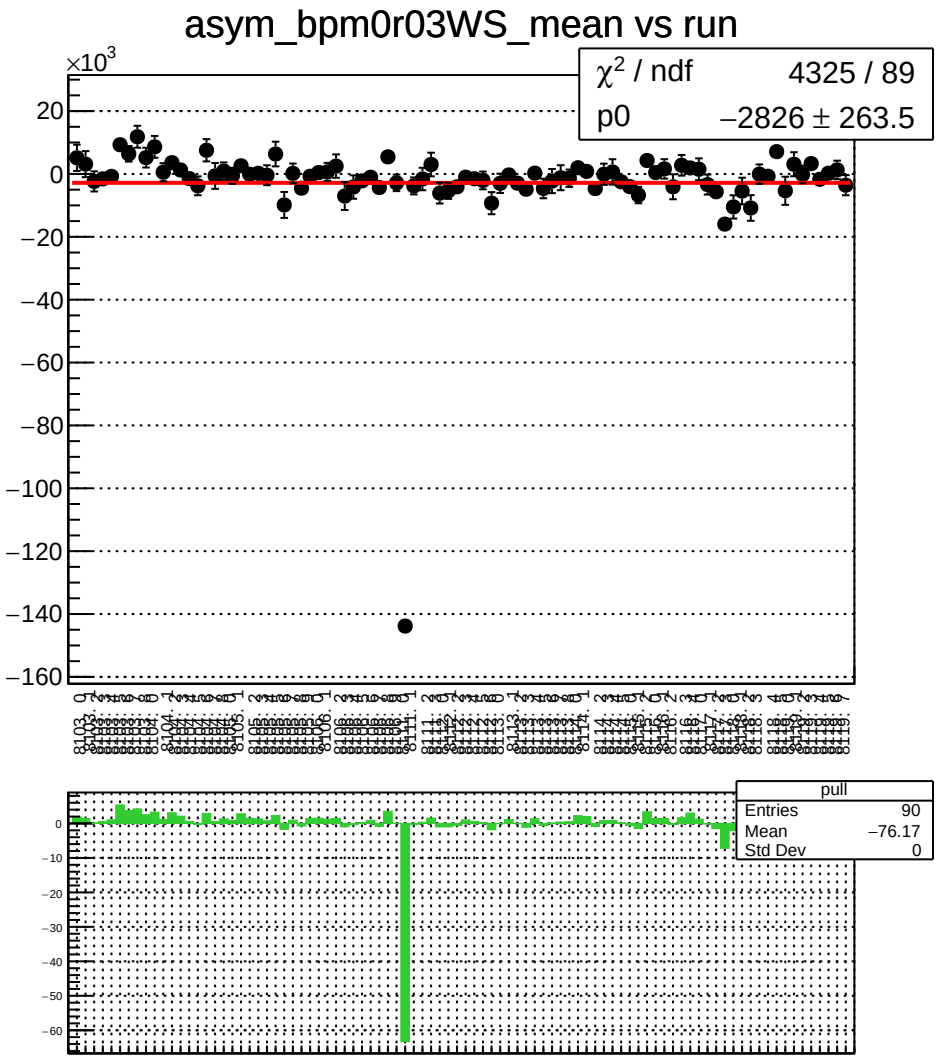

pull1D
Entries 90
Mean 0.002304
Std Dev 0.9284
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

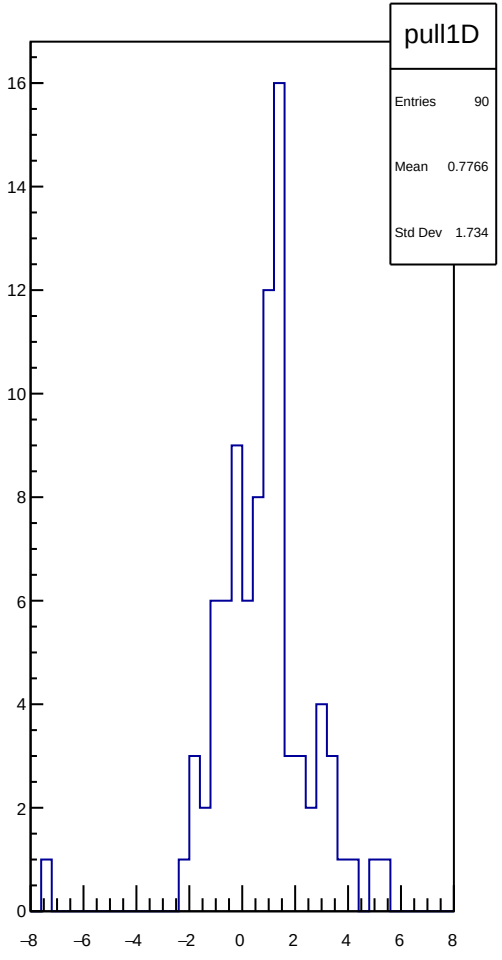

asym_bpm0l09WS_rms vs run
χ² / ndf 7694 / 89
p0 1536 ± 1.161
1900
1800
1700
1600
1500
1400
1300
1200

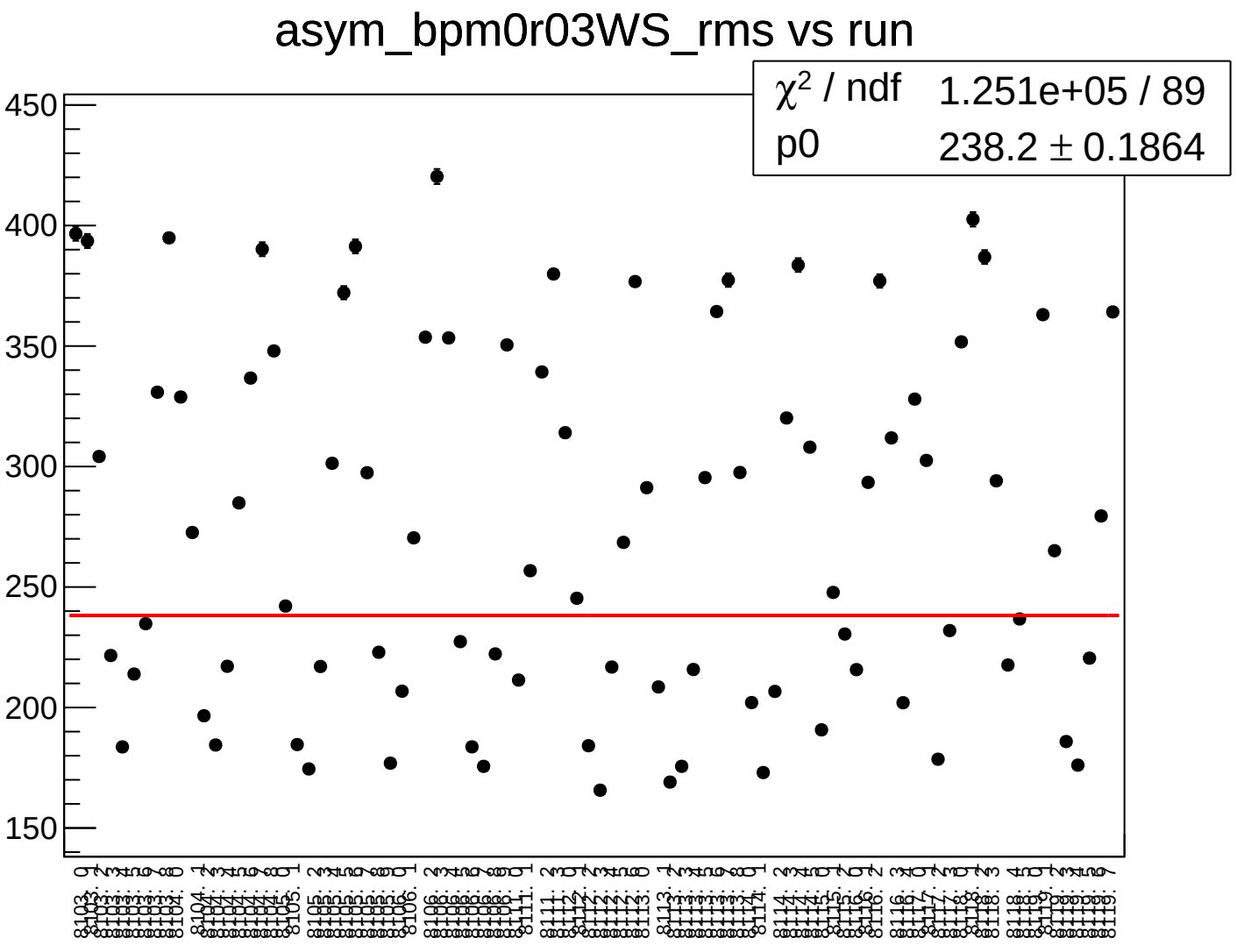

asym_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 5383 / 89
p0 −2158 ± 208.8
pull
Entries 90
Mean 7891
Std Dev 0

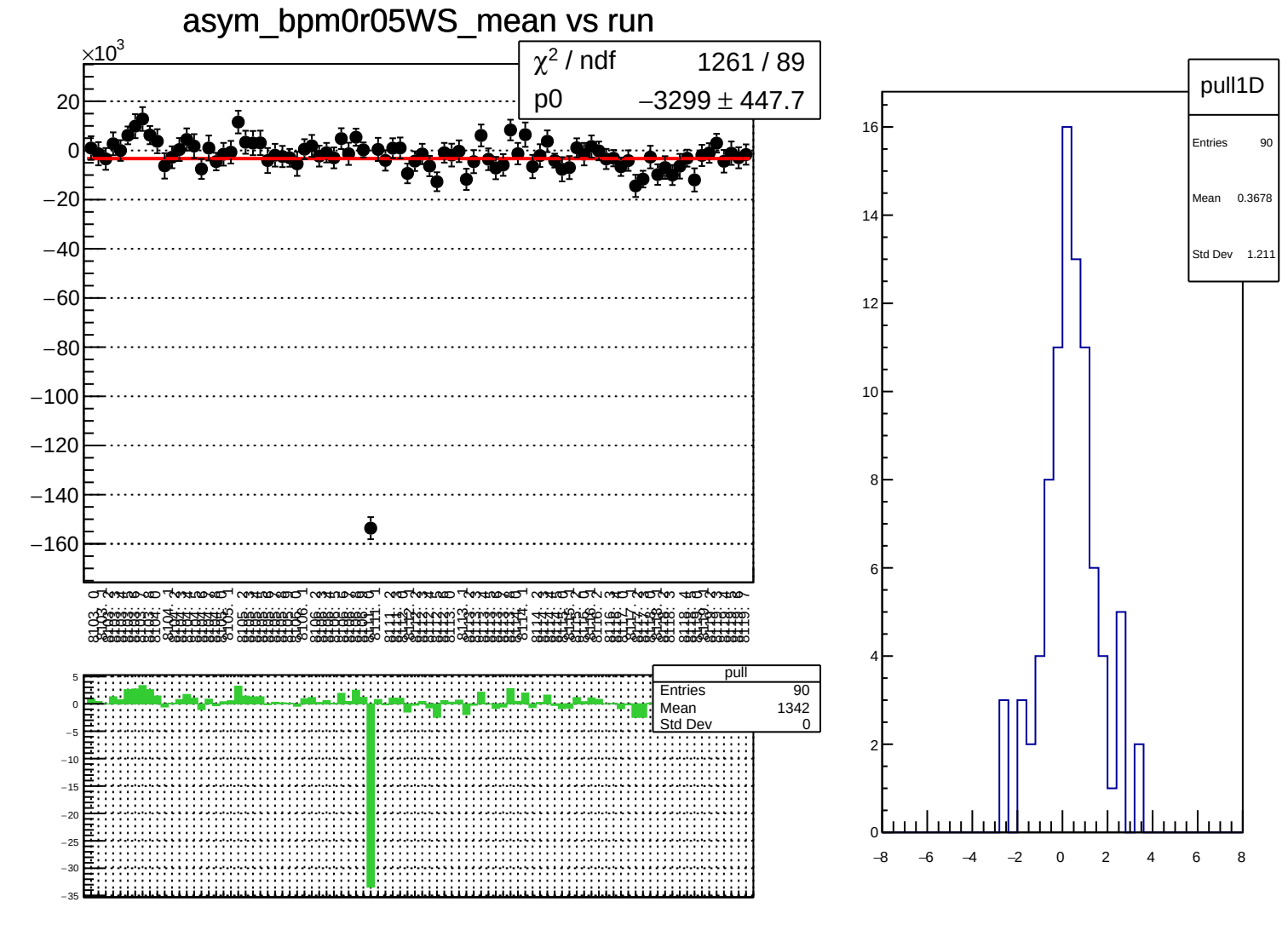

pull1D
Entries 90
Mean 0.7877
Std Dev 2.099

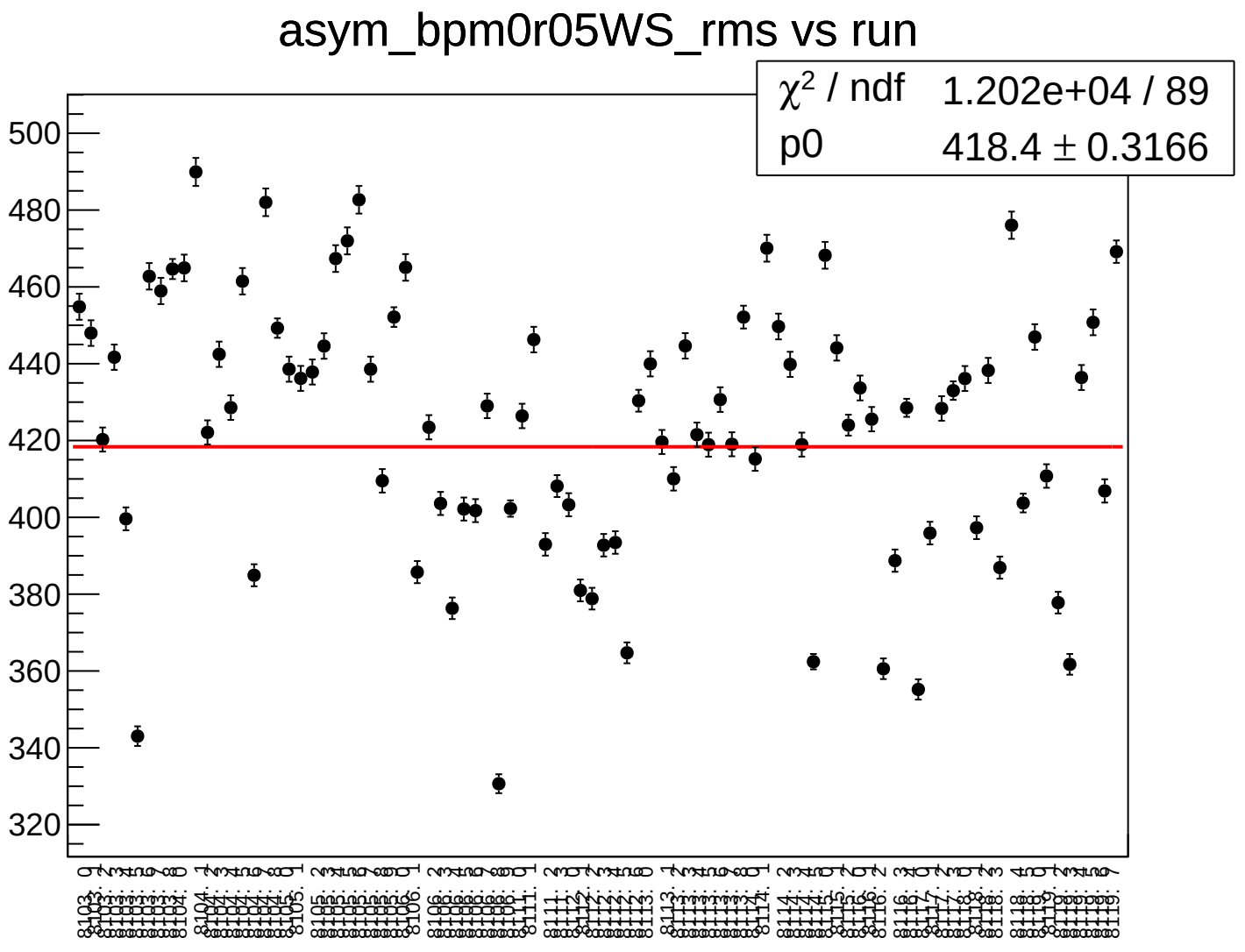

asym_bpm0l10WS_rms vs run
χ² / ndf 6.102e+04 / 89
p0 192.3 ± 0.1476
300
280
260
240
220
200
180
160
140

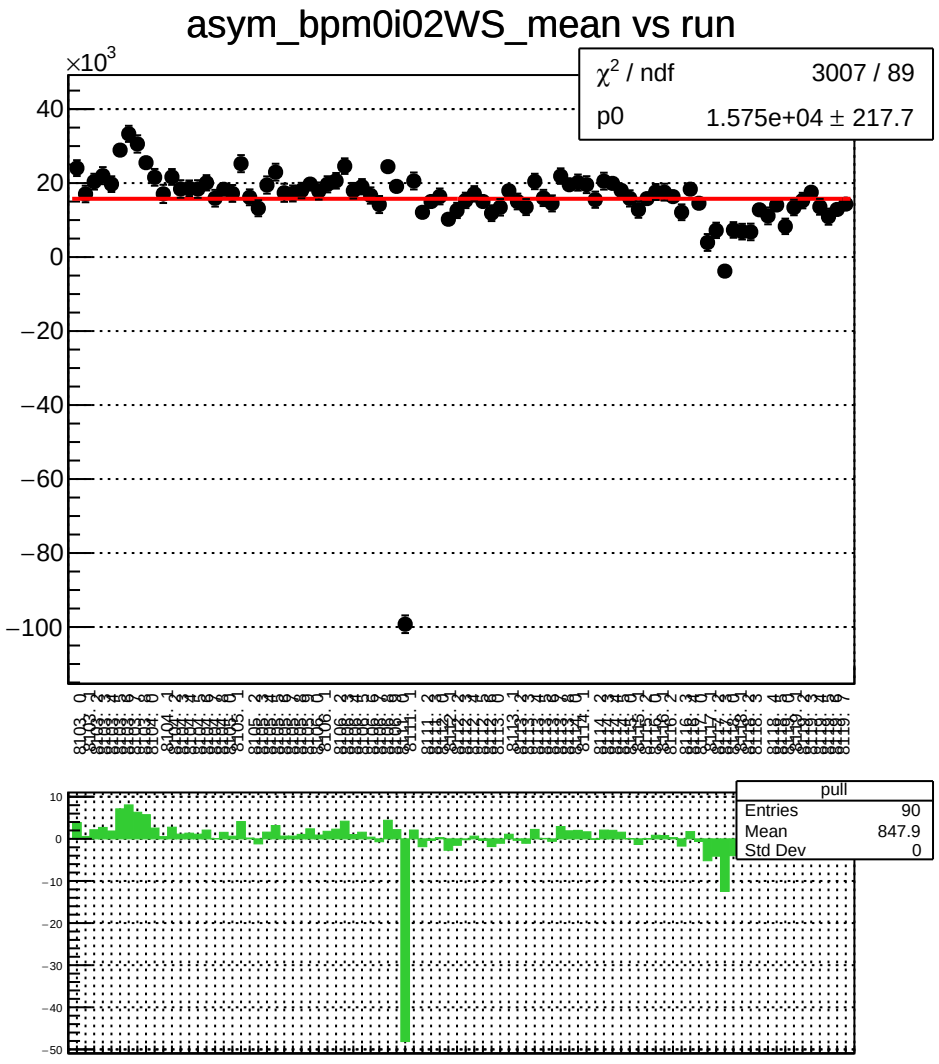

asym_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 4325 / 89
p0 −2826 ± 263.5
pull
Entries 90
Mean −76.17
Std Dev 0

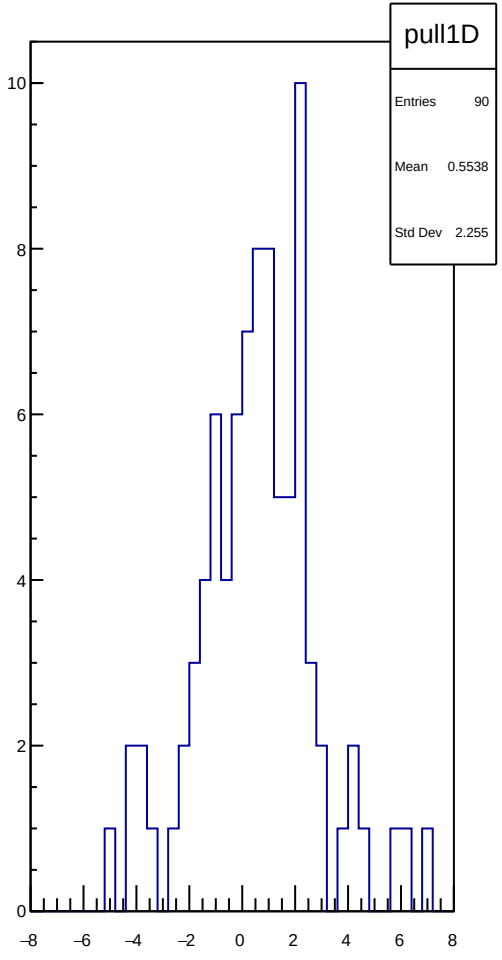

pull1D
Entries 90
Mean 0.7766
Std Dev 1.734

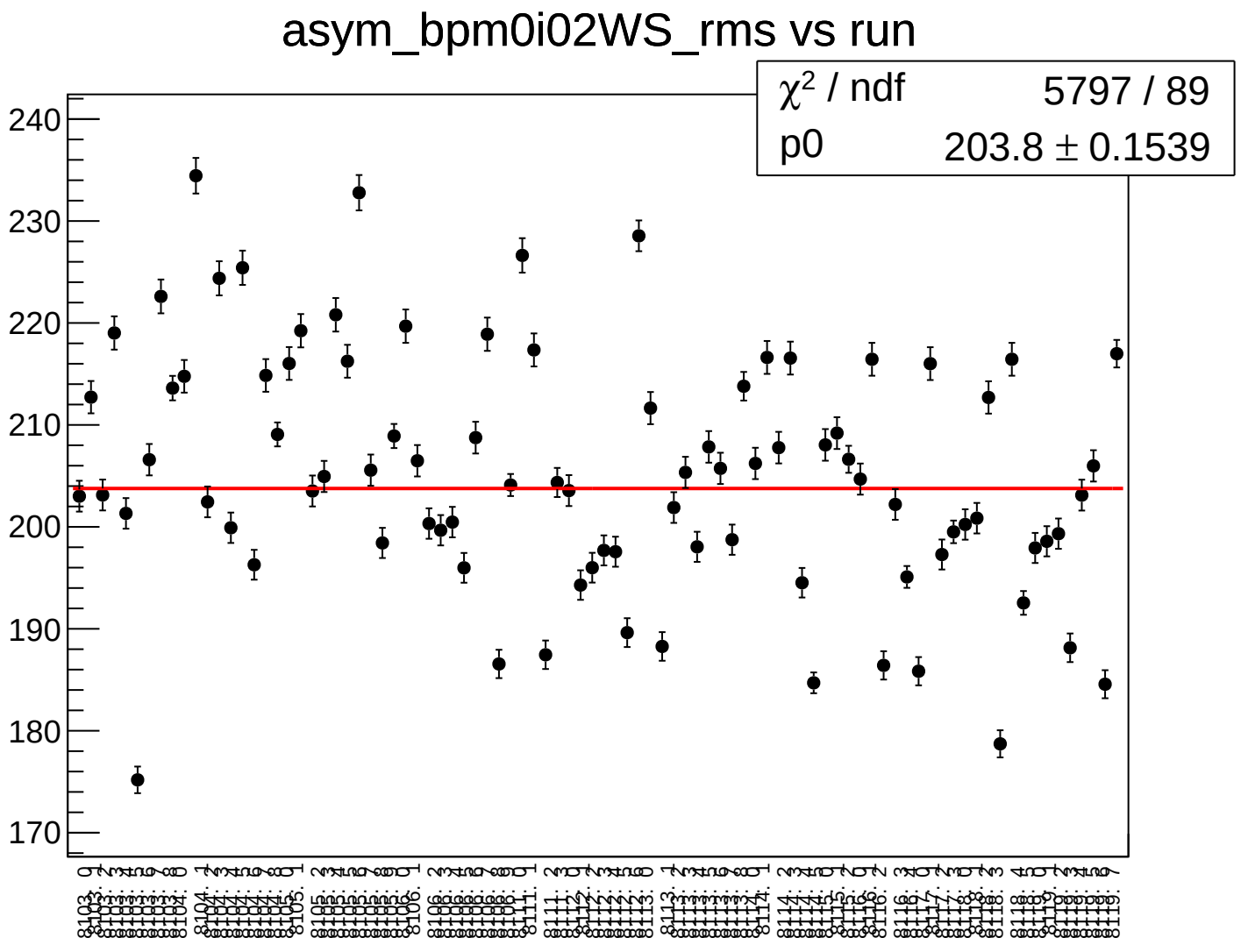

asym_bpm0r03WS_rms vs run
χ^2 / ndf 1.251e+05 / 89
p0 238.2 ± 0.1864
450
400
350
300
250
200
150

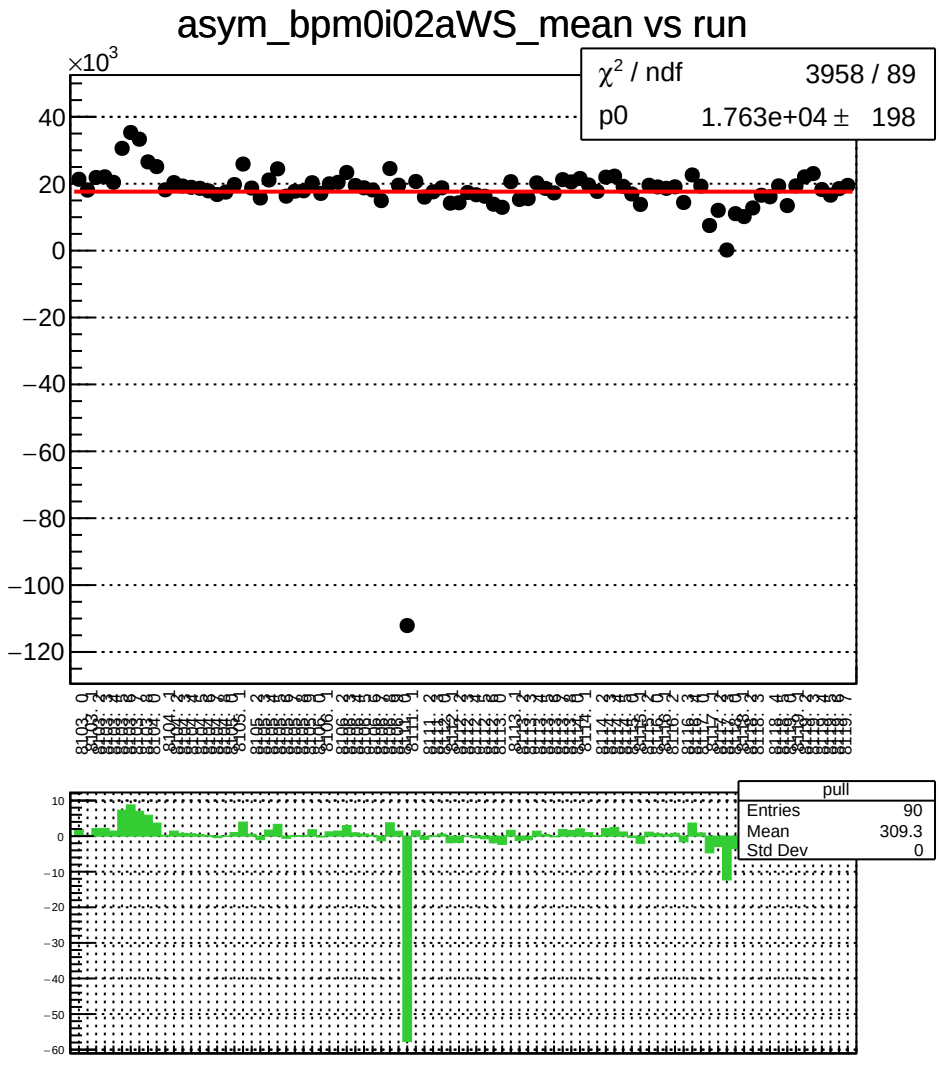

asym_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 1261 / 89
p0 −3299 ± 447.7
pull
Entries 90
Mean 1342
Std Dev 0
pull1D
Entries 90
Mean 0.3678
Std Dev 1.211

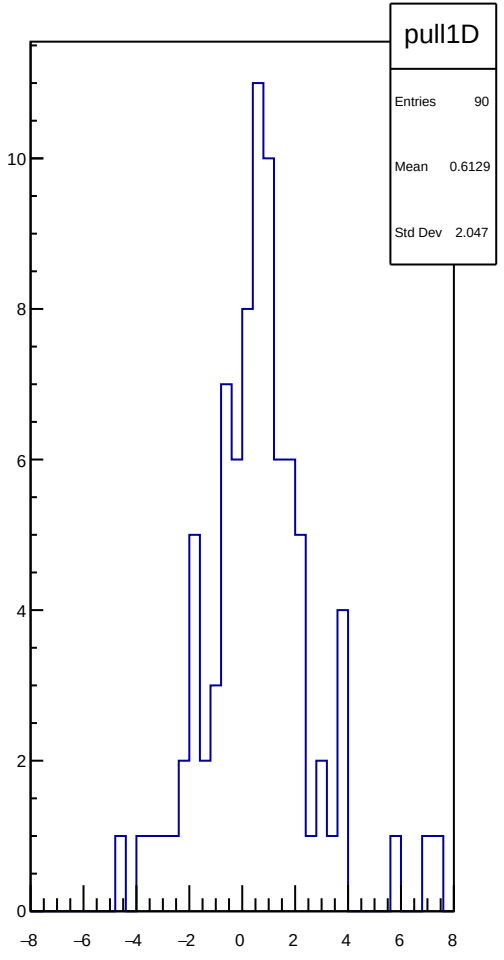

asym_bpm0r05WS_rms vs run
χ² / ndf 1.202e+04 / 89
p0 418.4 ± 0.3166
500
480
460
440
420
400
380
360
340
320

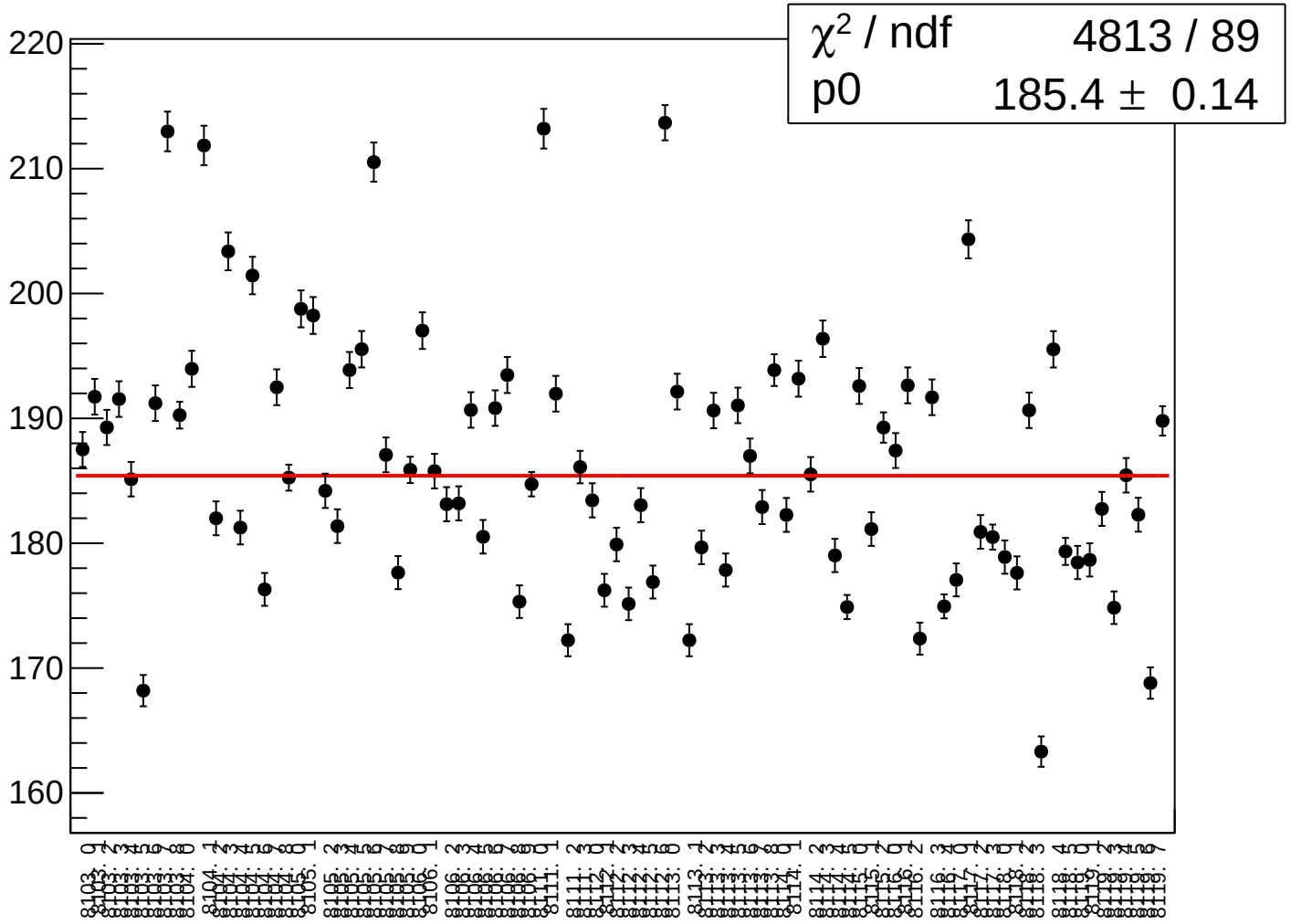

asym_bpm0i02WS_mean vs run
×10^3
χ² / ndf 3007 / 89
p0 1.575e+04 ± 217.7
40
20
0
−20
−40
−60
−80
−100
pull
Entries 90
Mean 847.9
Std Dev 0
10
0
−10
−20
−30
−40
−50

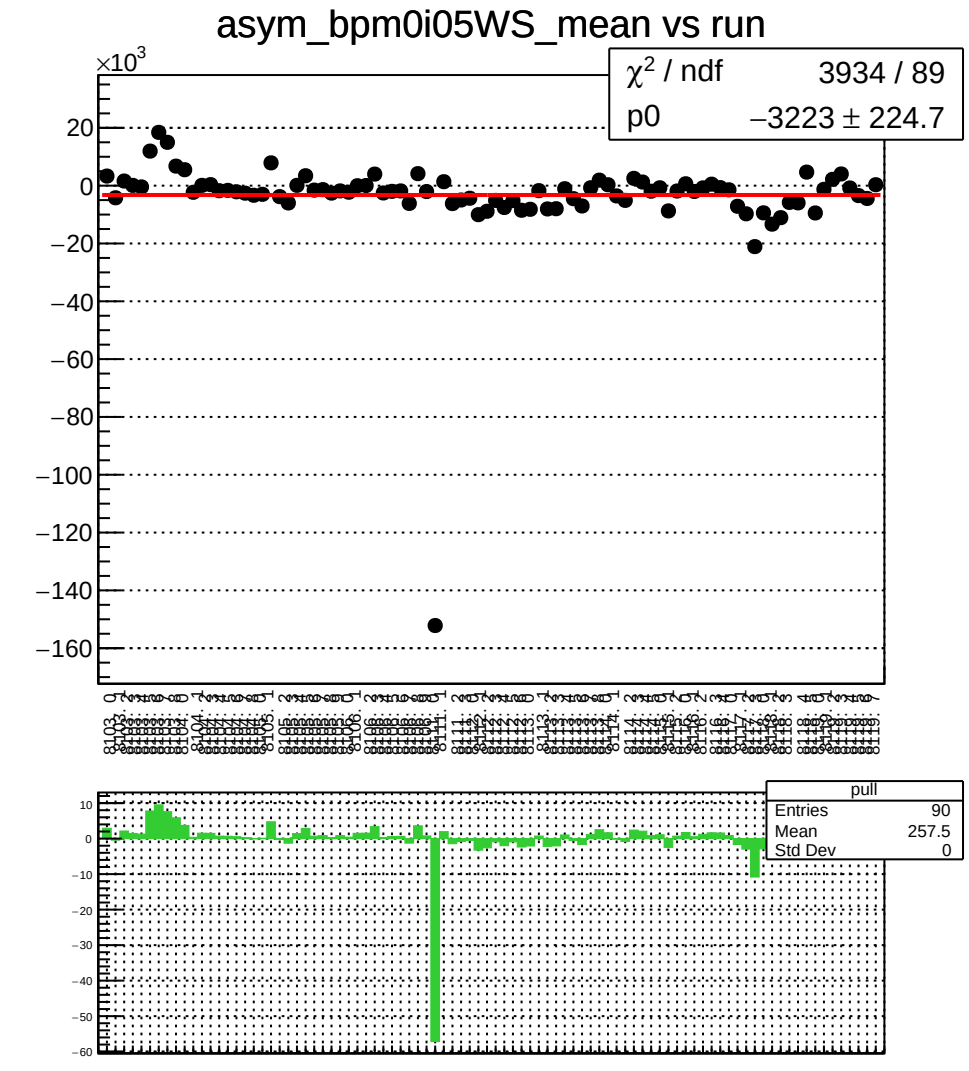

pull1D
Entries 90
Mean 0.5538
Std Dev 2.255
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

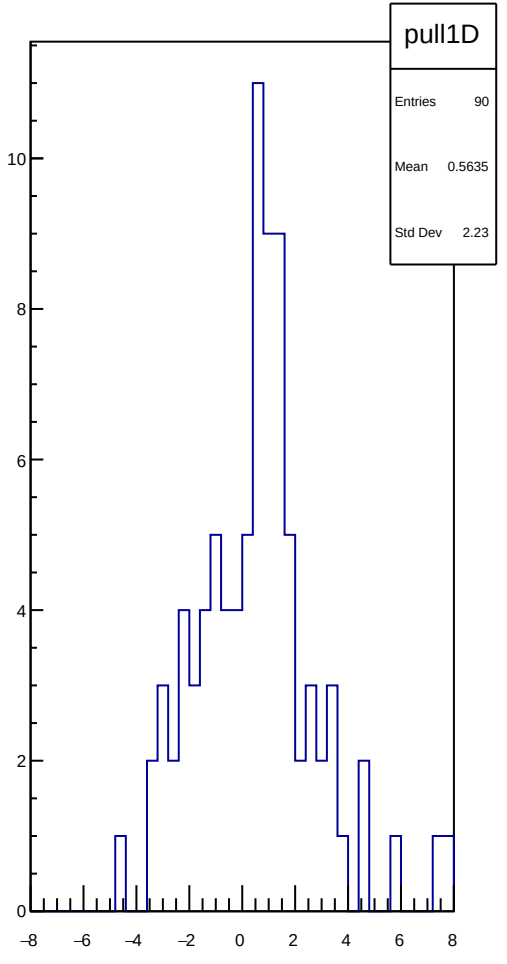

asym_bpm0i02WS_rms vs run
χ² / ndf 5797 / 89
p0 203.8 ± 0.1539
240
230
220
210
200
190
180
170

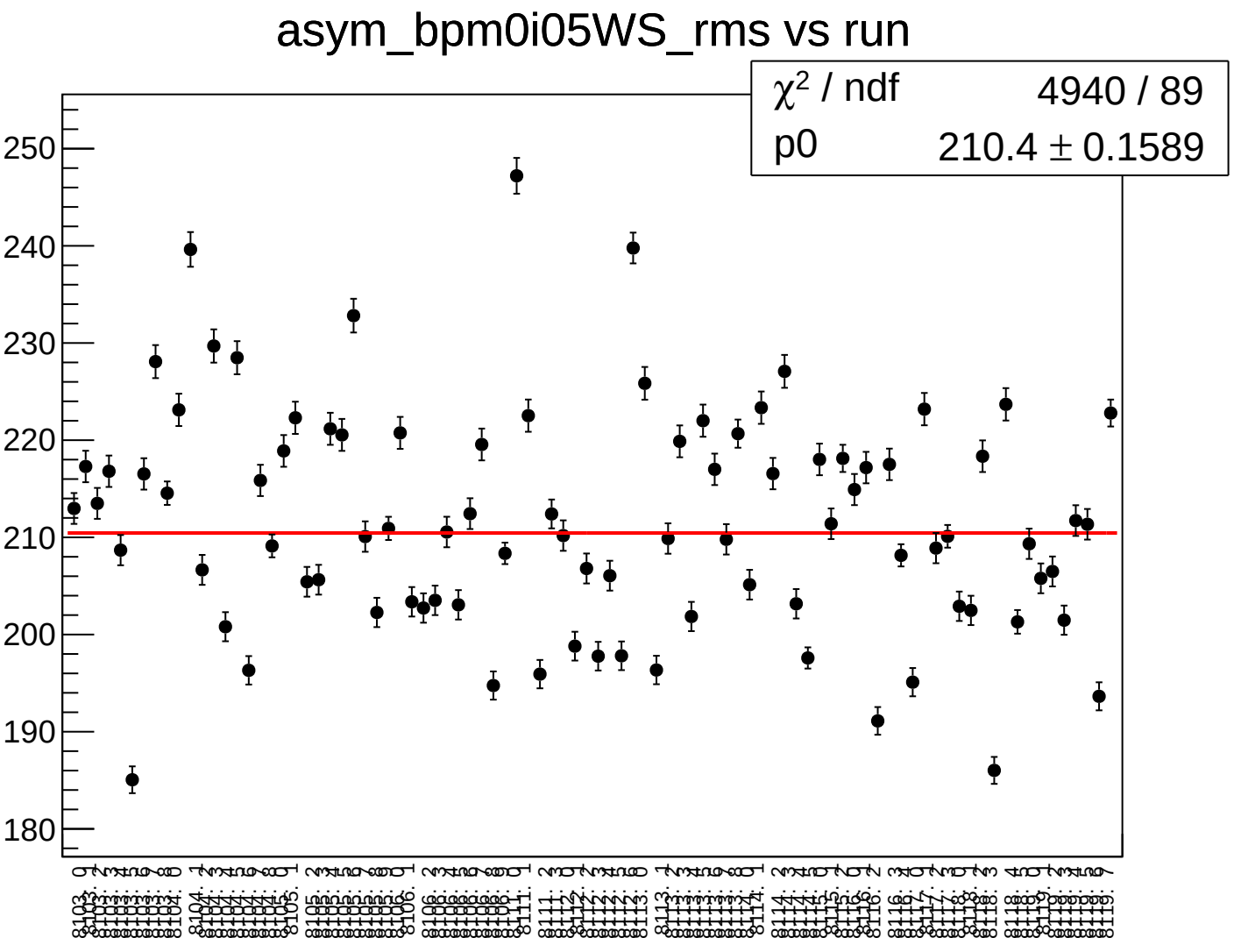

asym_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3958 / 89
p0 1.763e+04 ± 198
pull
Entries 90
Mean 309.3
Std Dev 0

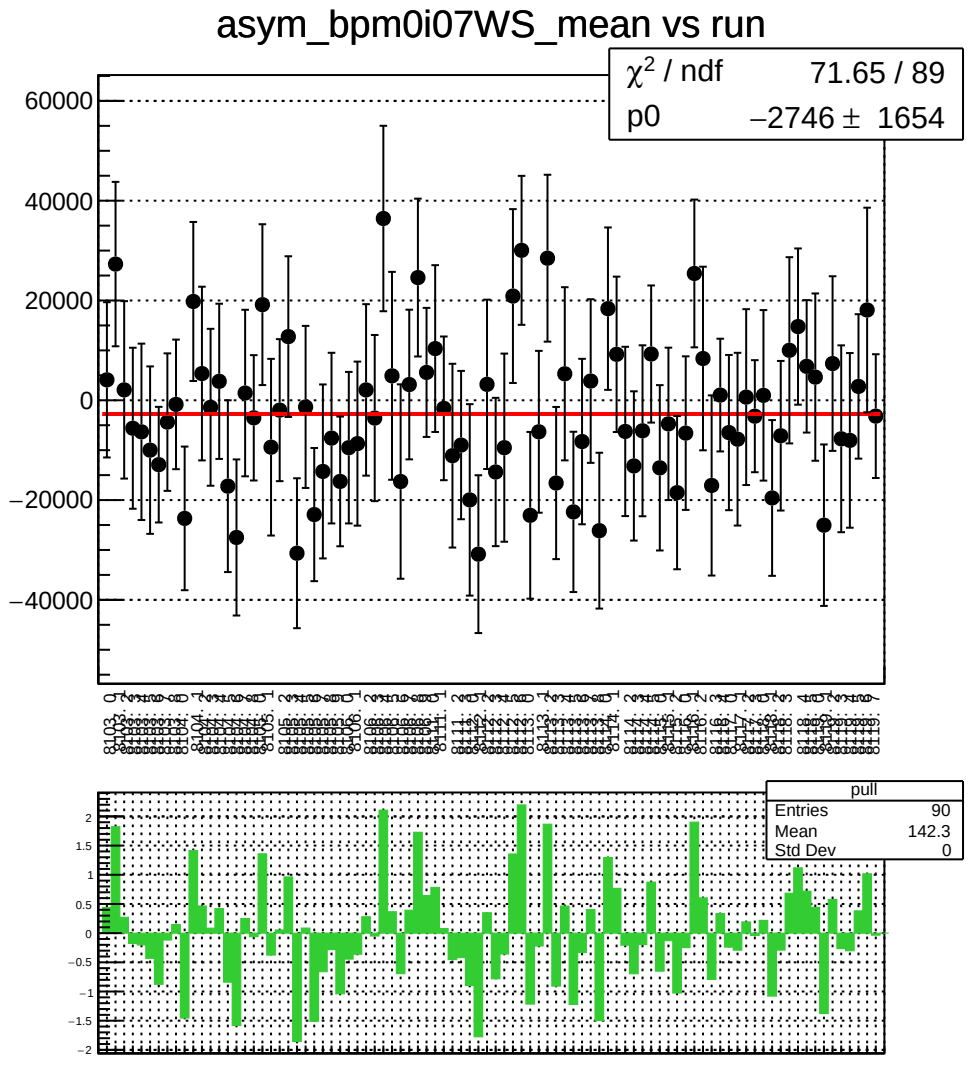

pull1D
Entries 90
Mean 0.6129
Std Dev 2.047

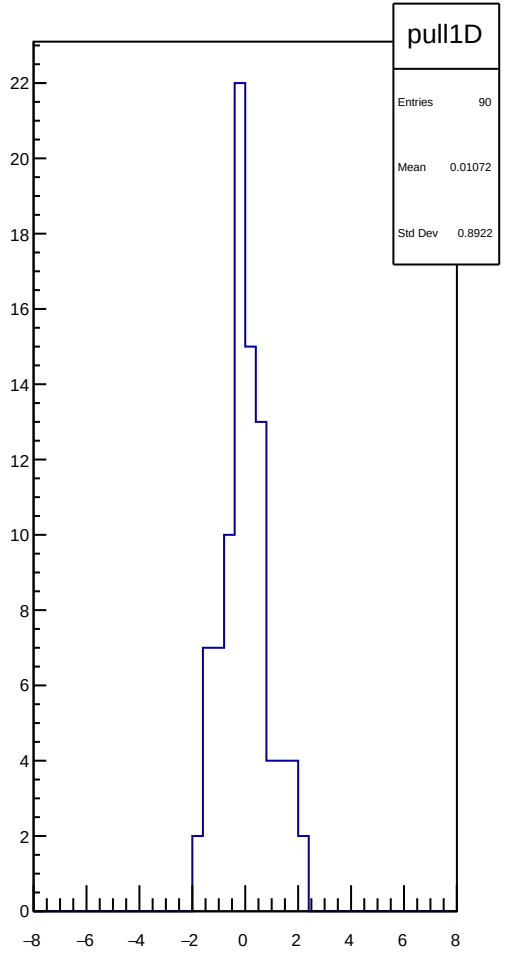

asym_bpm0i02aWS_rms vs run
χ² / ndf 4813 / 89
p0 185.4 ± 0.14
220
210
200
190
180
170
160

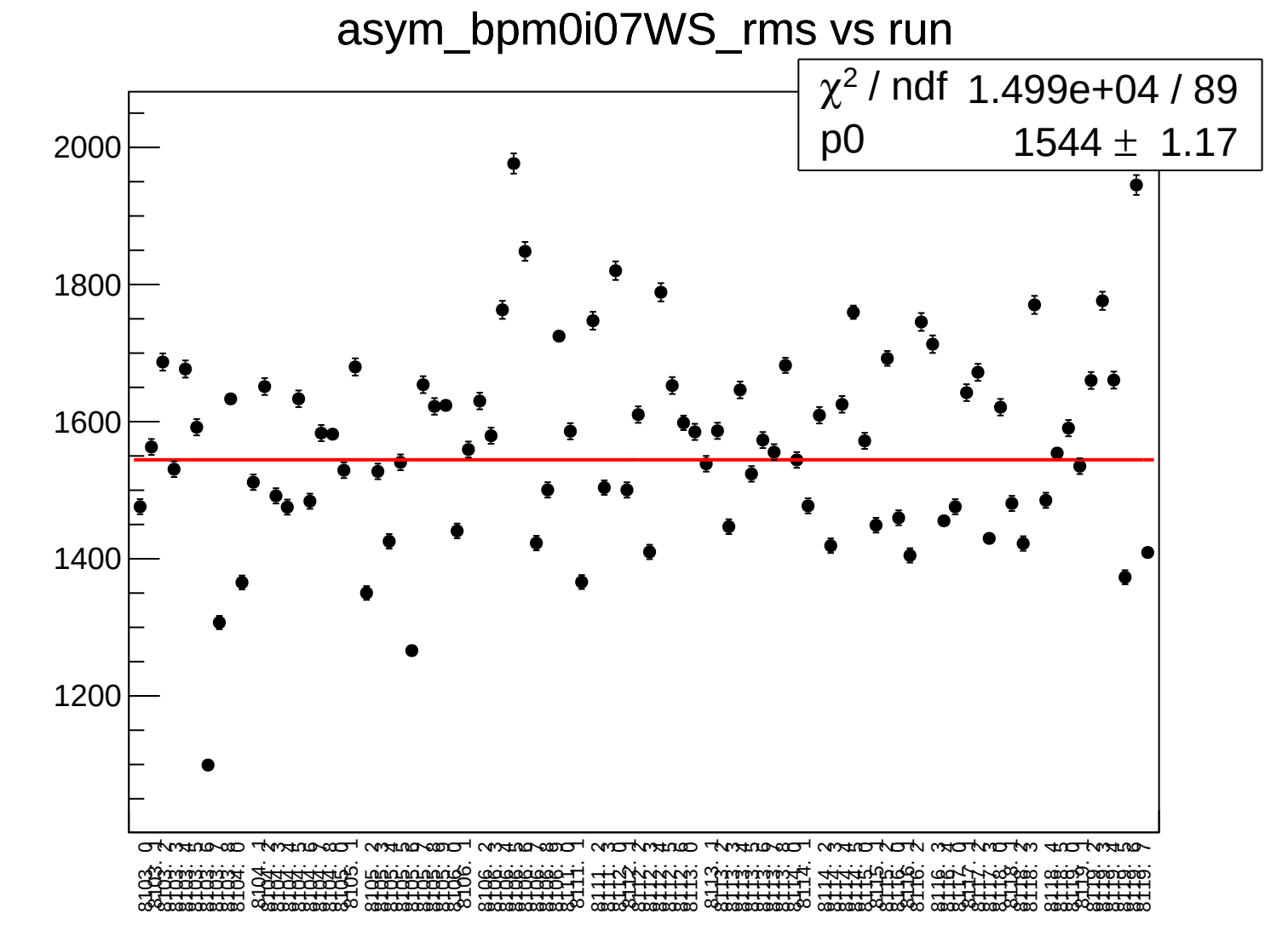

asym_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 3934 / 89
p0 −3223 ± 224.7
20
0
−20
−40
−60
−80
−100
−120
−140
−160
pull
Entries 90
Mean 257.5
Std Dev 0
10
0
−10
−20
−30
−40
−50
−60

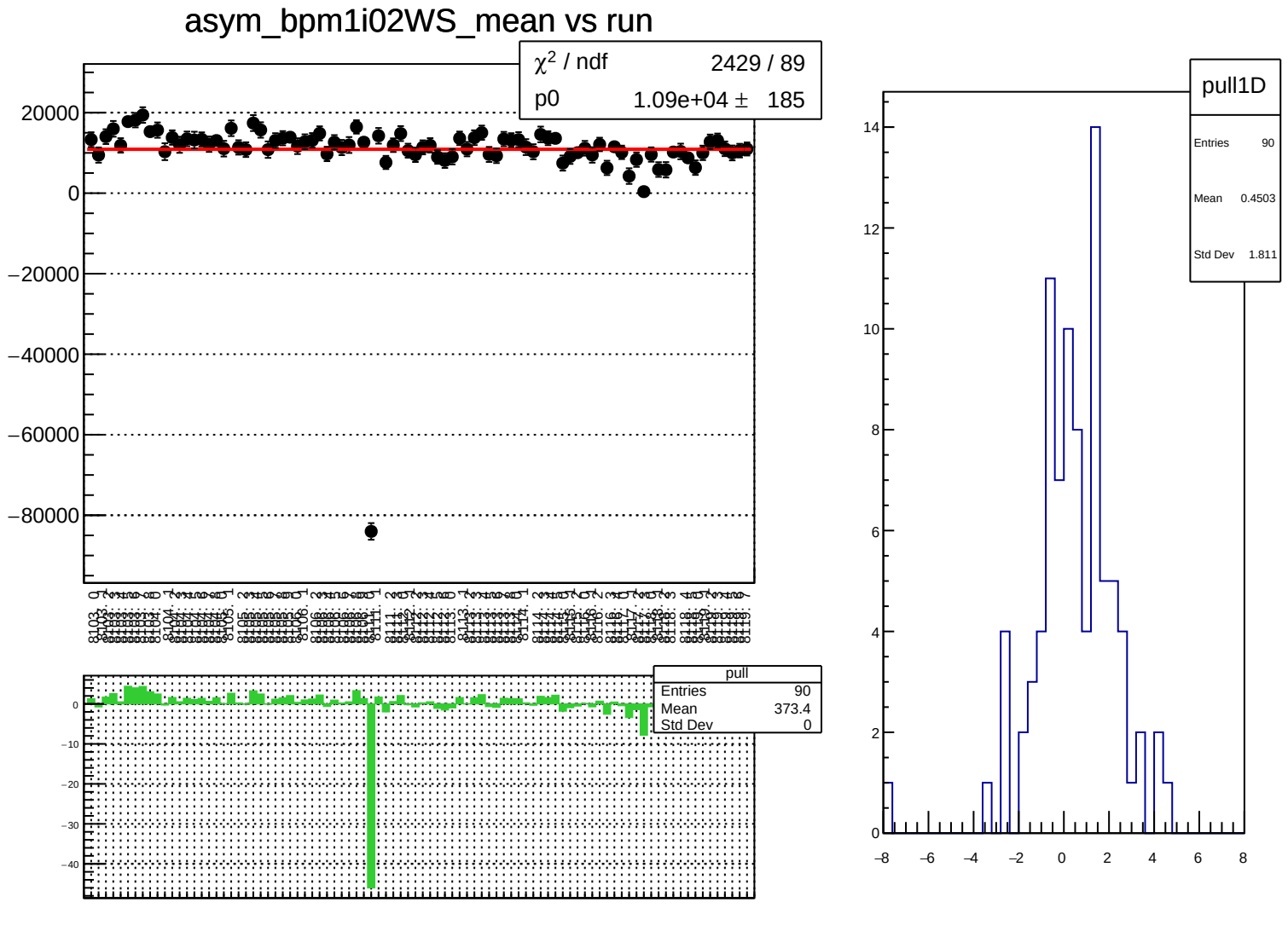

pull1D
Entries 90
Mean 0.5635
Std Dev 2.23
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

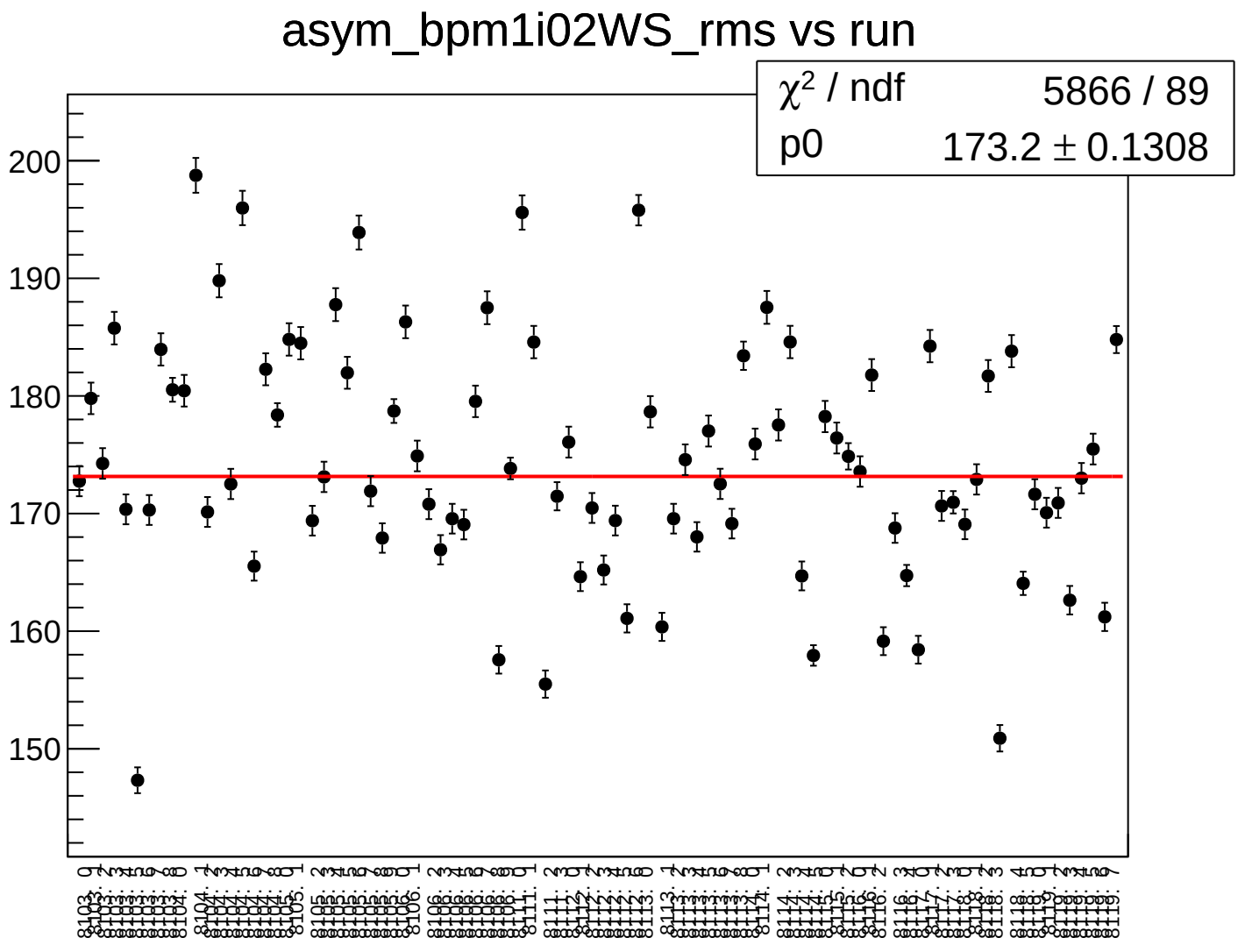

asym_bpm0i05WS_rms vs run
χ² / ndf 4940 / 89
p0 210.4 ± 0.1589
250
240
230
220
210
200
190
180

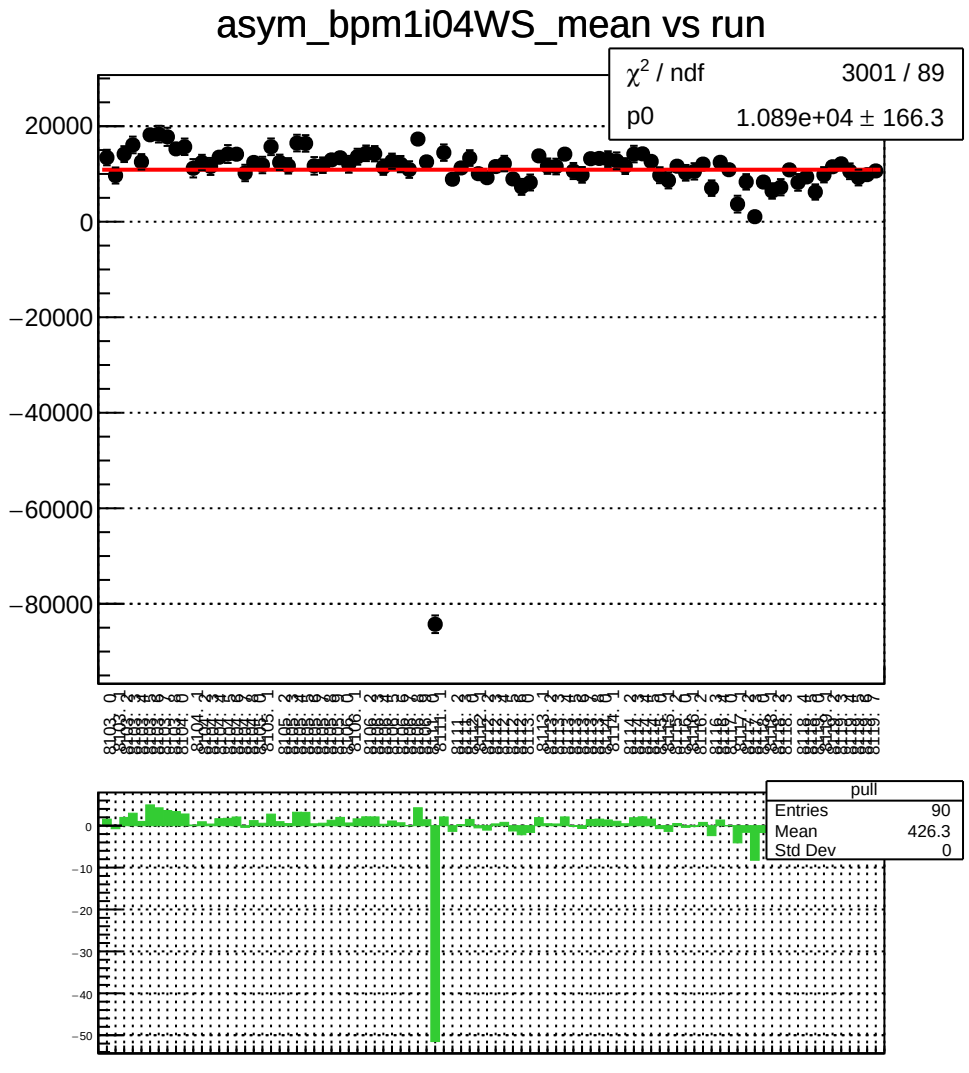

asym_bpm0i07WS_mean vs run
χ² / ndf 71.65 / 89
p0 −2746 ± 1654
60000
40000
20000
0
−20000
−40000
pull
Entries 90
Mean 142.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

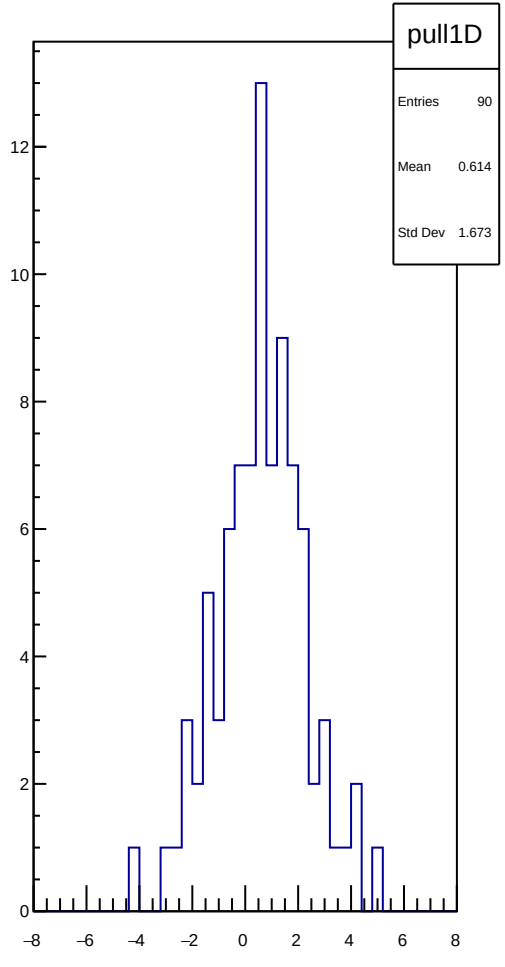

pull1D
Entries 90
Mean 0.01072
Std Dev 0.8922
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

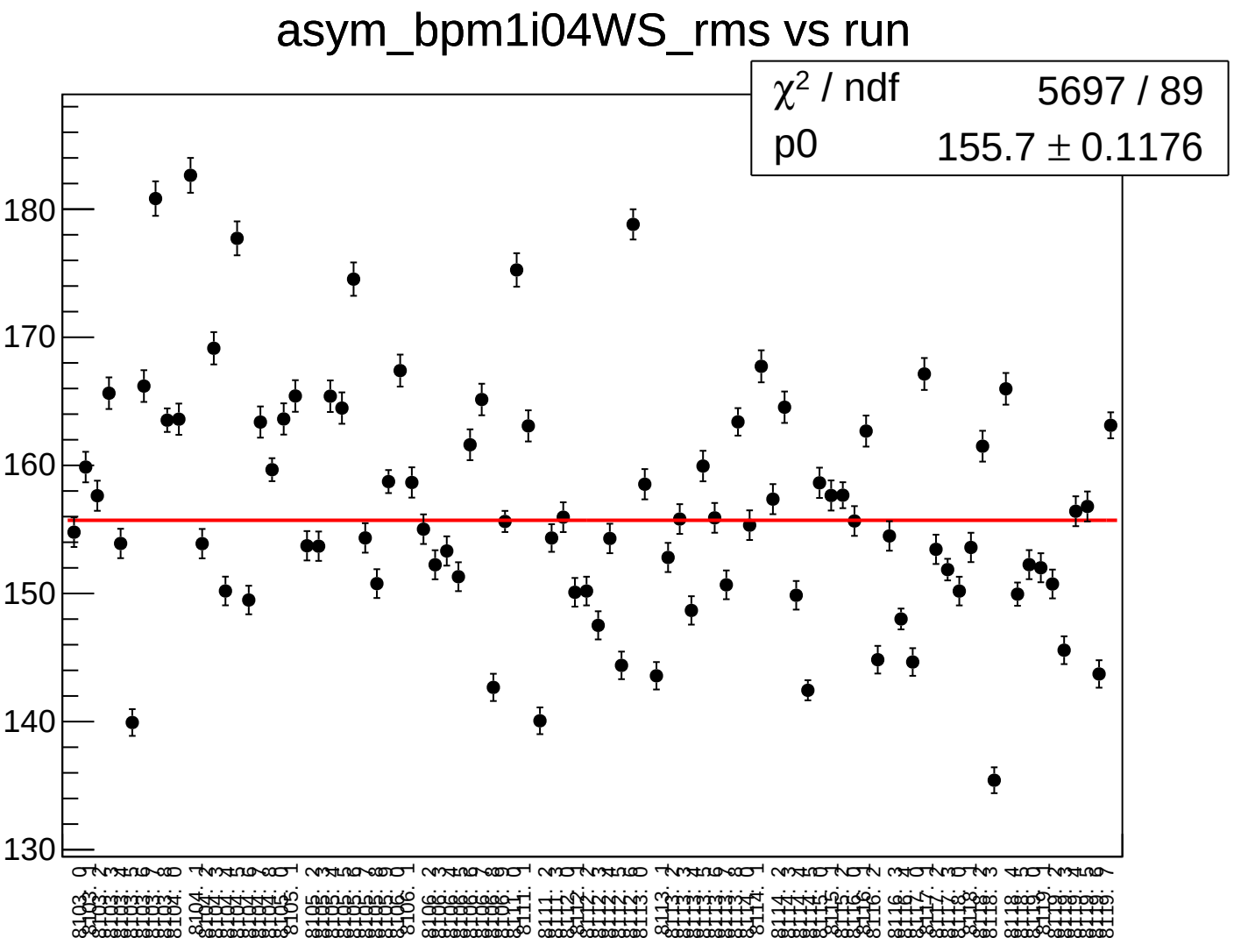

asym_bpm0i07WS_rms vs run
χ² / ndf 1.499e+04 / 89
p0 1544 ± 1.17
2000
1800
1600
1400
1200

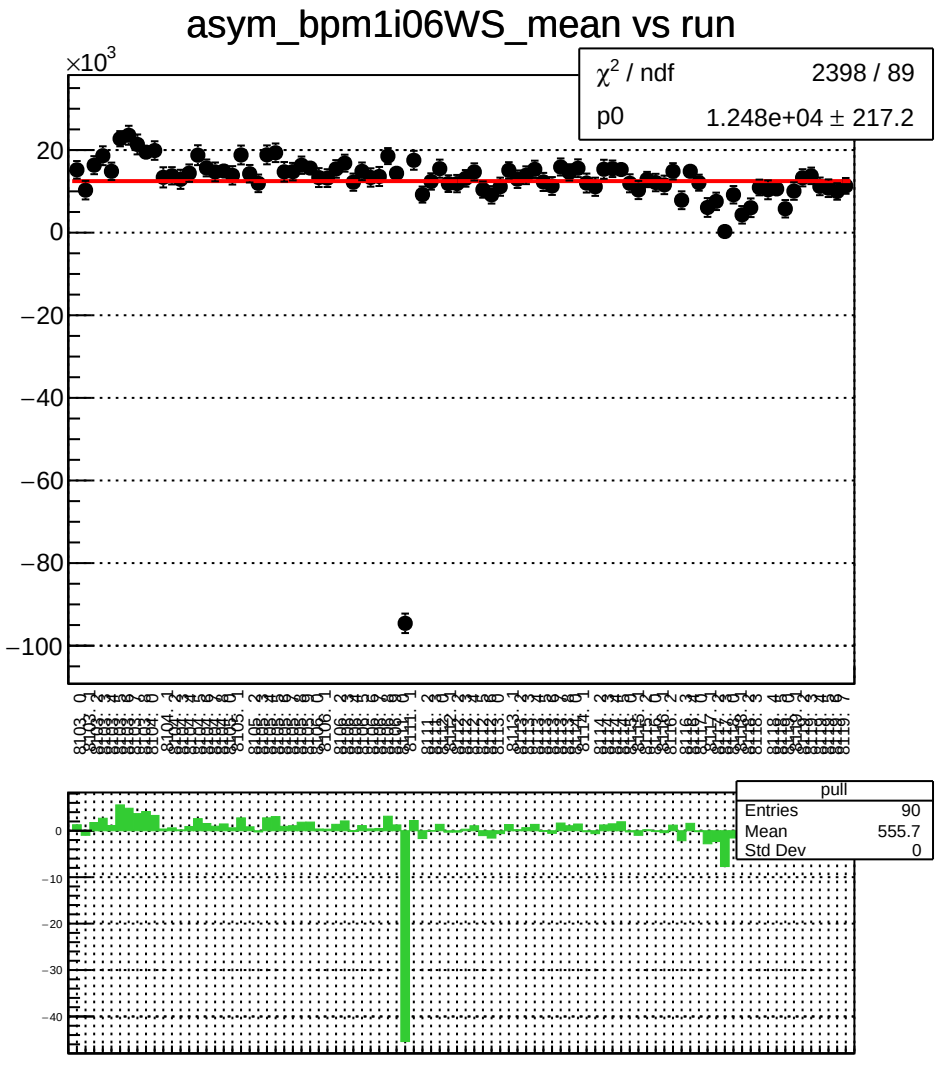

asym_bpm1i02WS_mean vs run
χ² / ndf 2429 / 89
p0 1.09e+04 ± 185
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 373.4
Std Dev 0
0
−10
−20
−30
−40
pull1D
Entries 90
Mean 0.4503
Std Dev 1.811
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

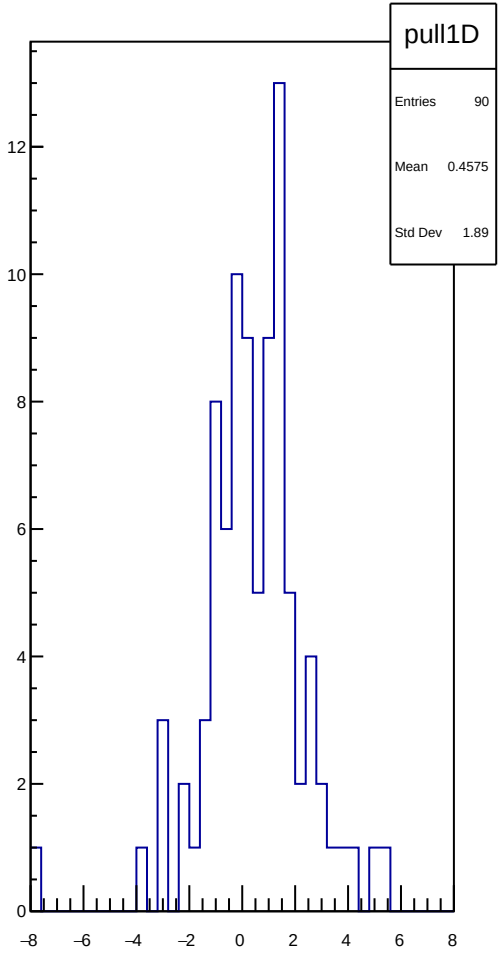

asym_bpm1i02WS_rms vs run
χ² / ndf 5866 / 89
p0 173.2 ± 0.1308
200
190
180
170
160
150

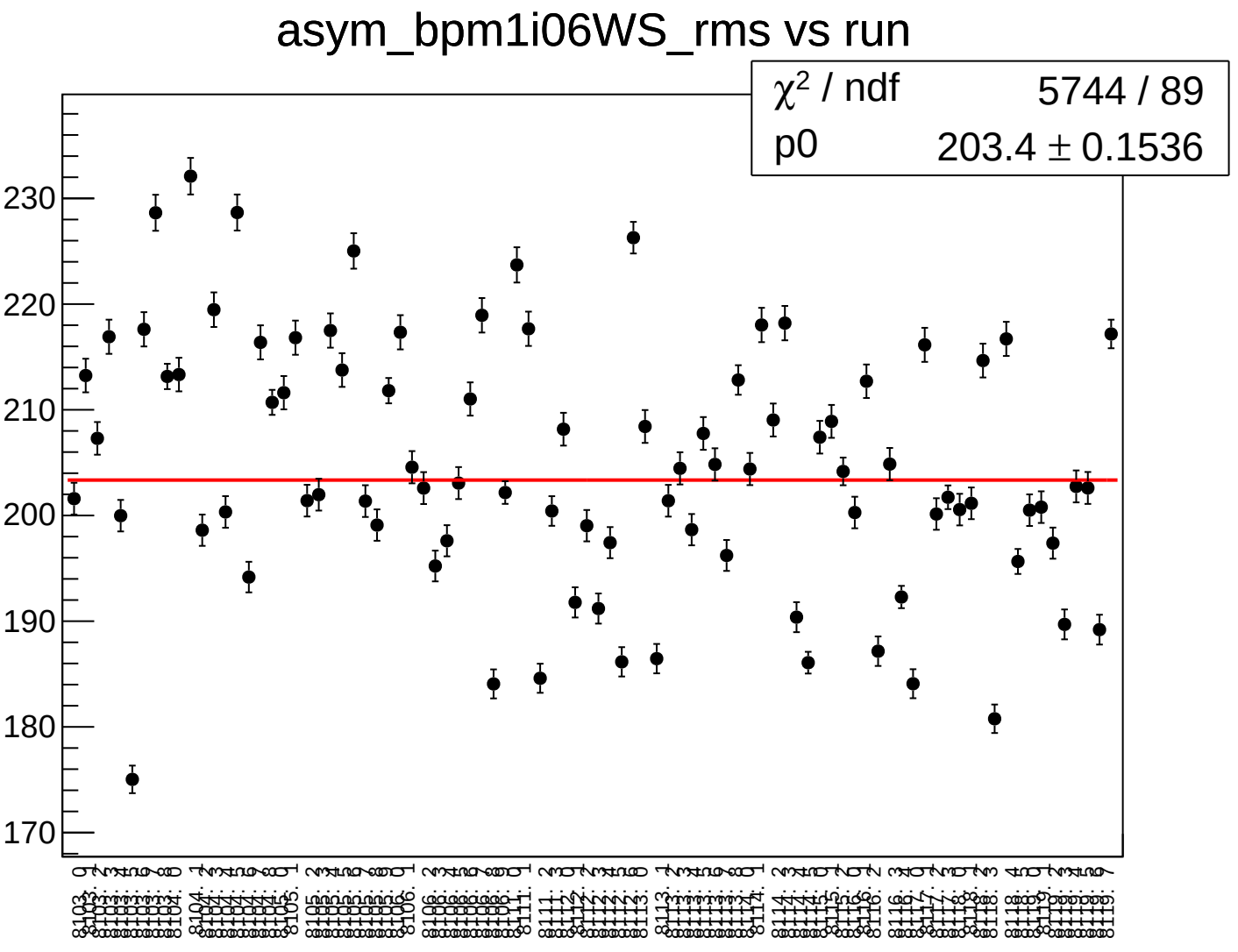

asym_bpm1i04WS_mean vs run
χ² / ndf 3001 / 89
p0 1.089e+04 ± 166.3
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean 426.3
Std Dev 0
0
−10
−20
−30
−40
−50

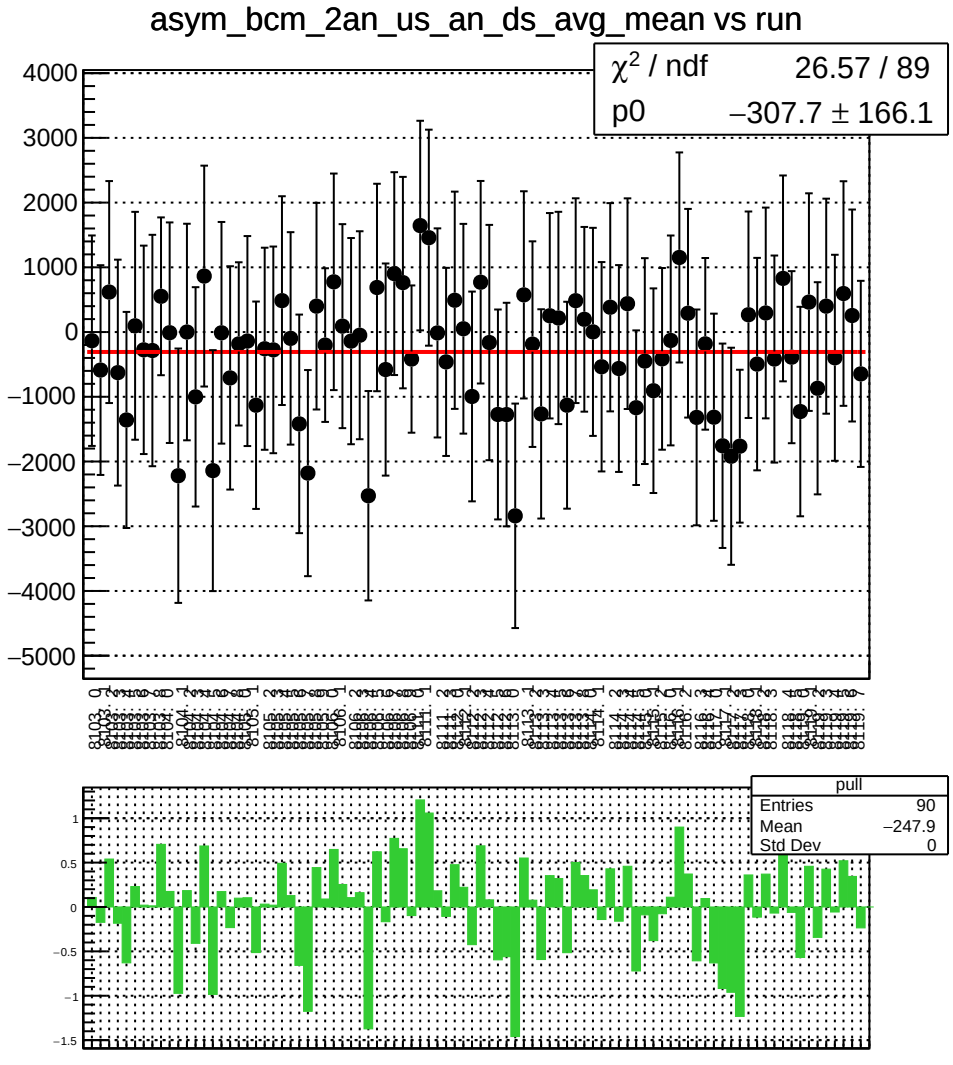

pull1D
Entries 90
Mean 0.614
Std Dev 1.673
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

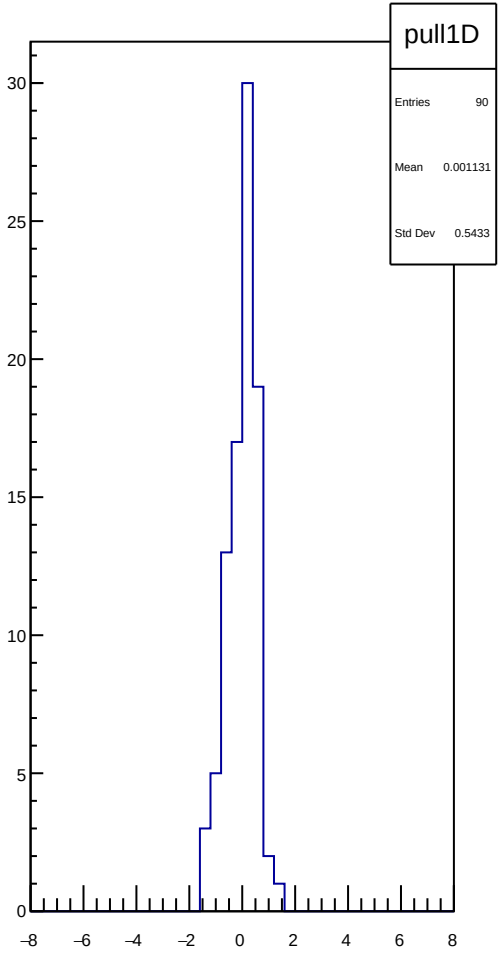

asym_bpm1i04WS_rms vs run
χ² / ndf 5697 / 89
p0 155.7 ± 0.1176
180
170
160
150
140
130

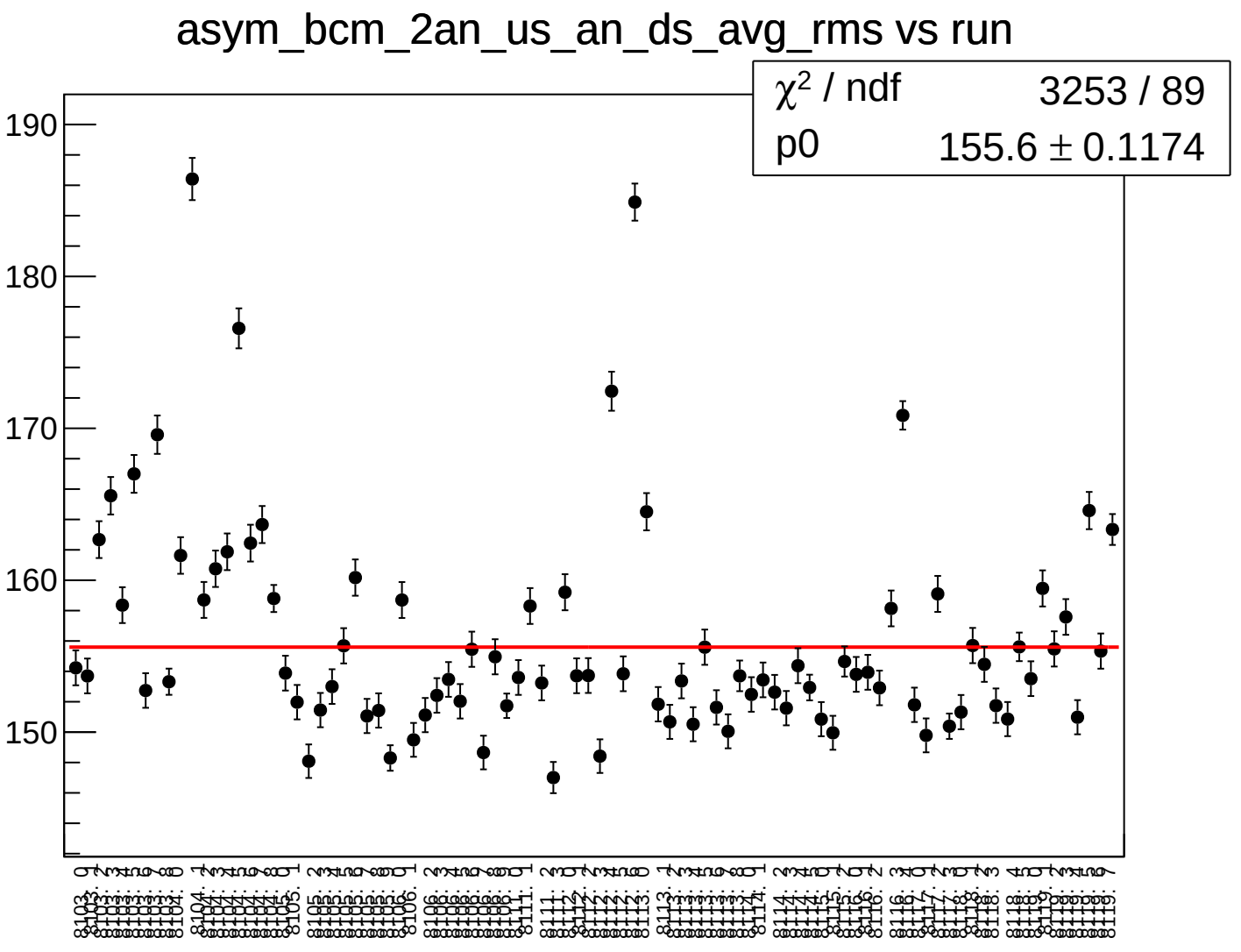

asym_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2398 / 89
p0 1.248e+04 ± 217.2
20
0
−20
−40
−60
−80
−100
pull
Entries 90
Mean 555.7
Std Dev 0
0
−10
−20
−30
−40

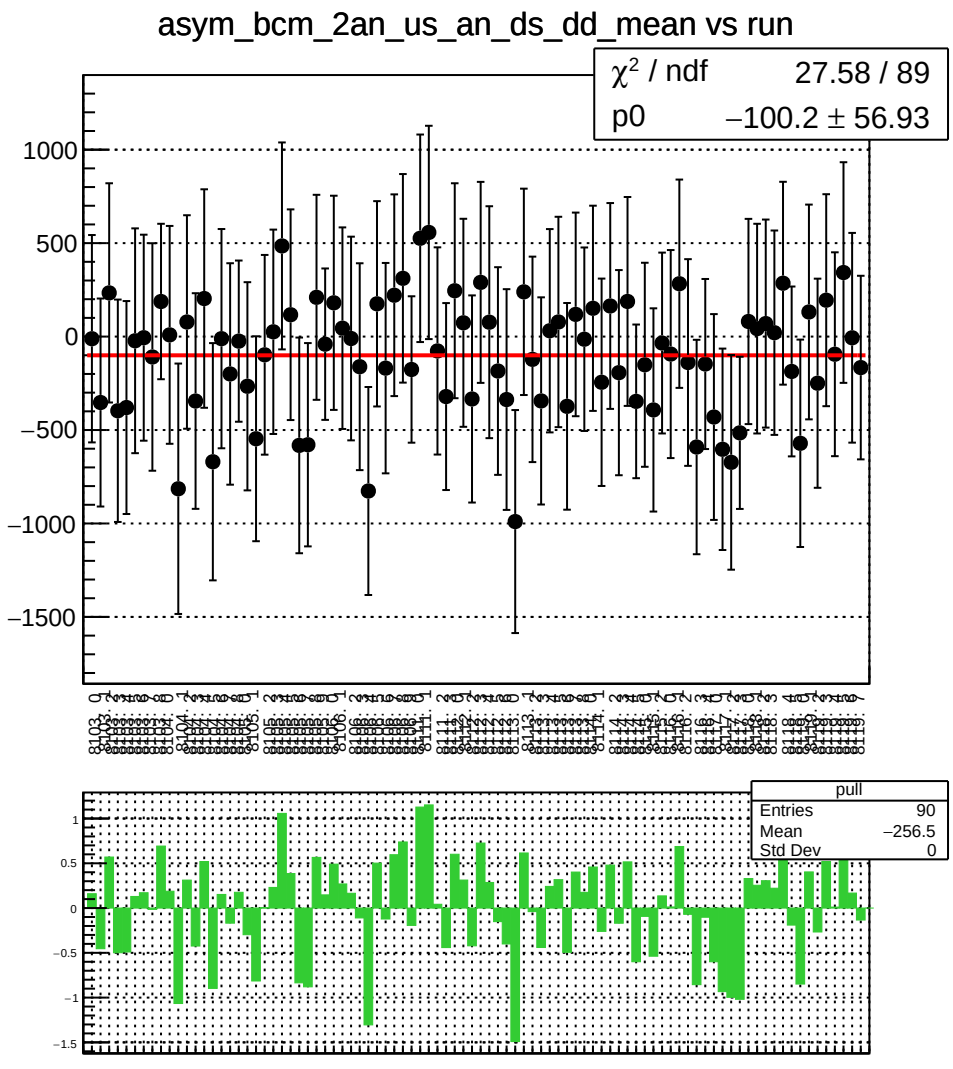

pull1D
Entries 90
Mean 0.4575
Std Dev 1.89
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

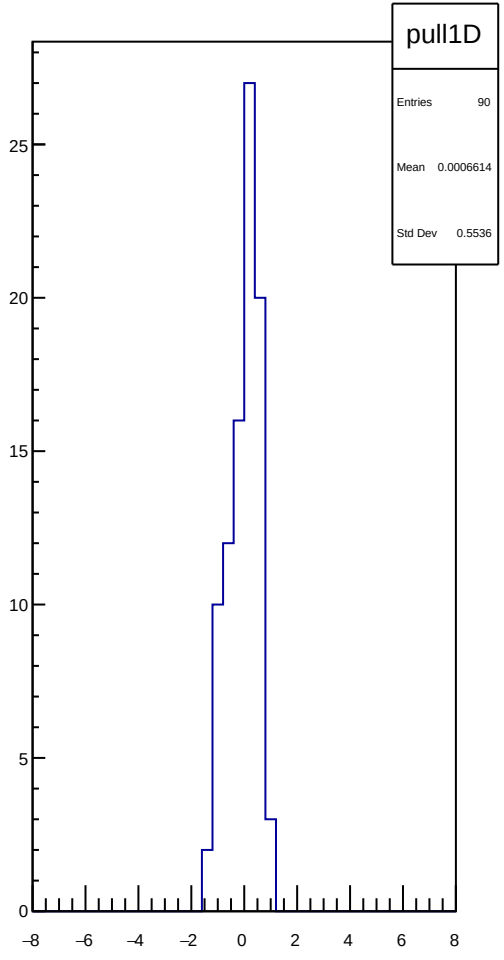

asym_bpm1i06WS_rms vs run
χ² / ndf 5744 / 89
p0 203.4 ± 0.1536
230
220
210
200
190
180
170

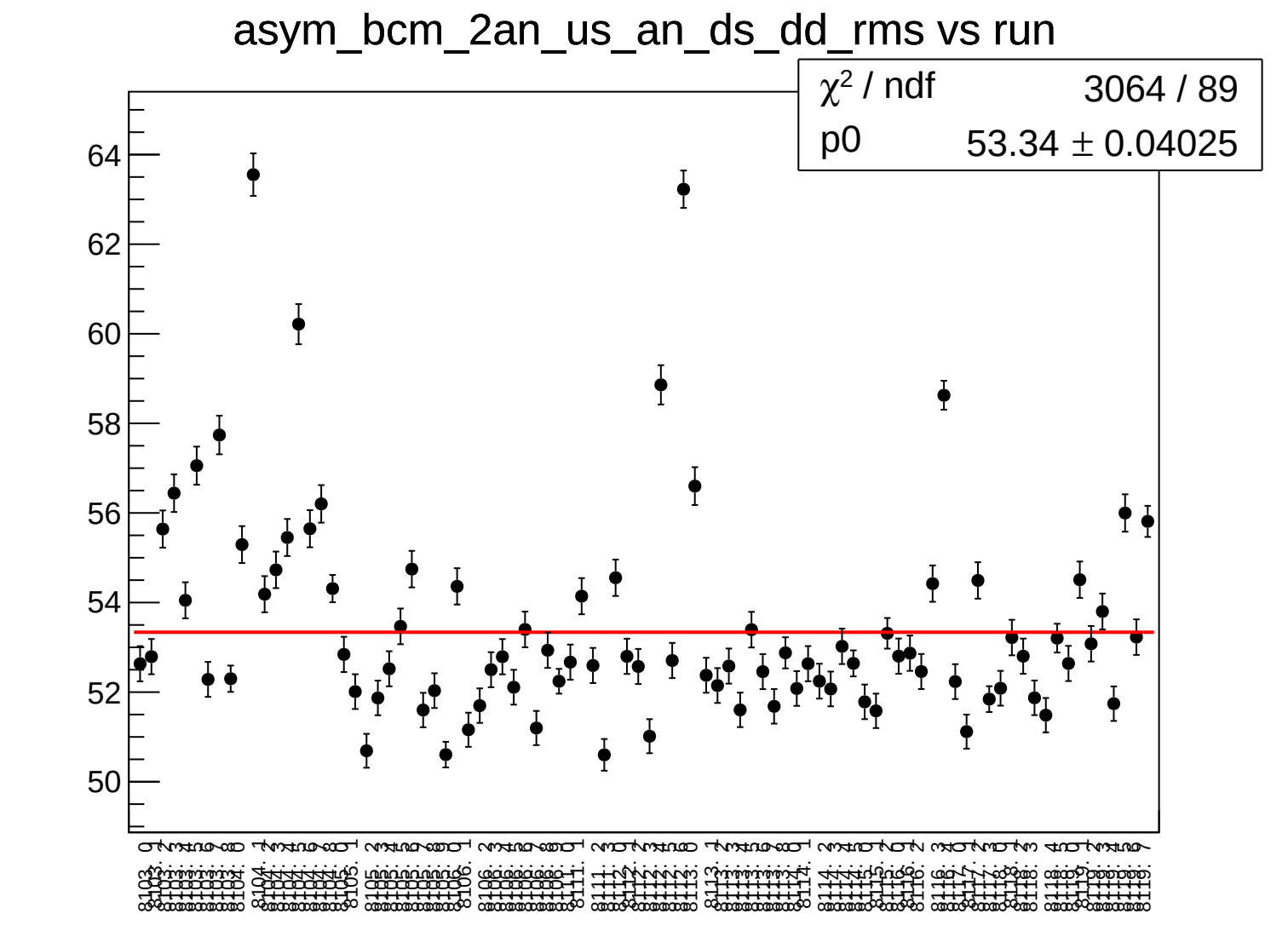

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 26.57 / 89
p0 −307.7 ± 166.1
pull
Entries 90
Mean −247.9
Std Dev 0

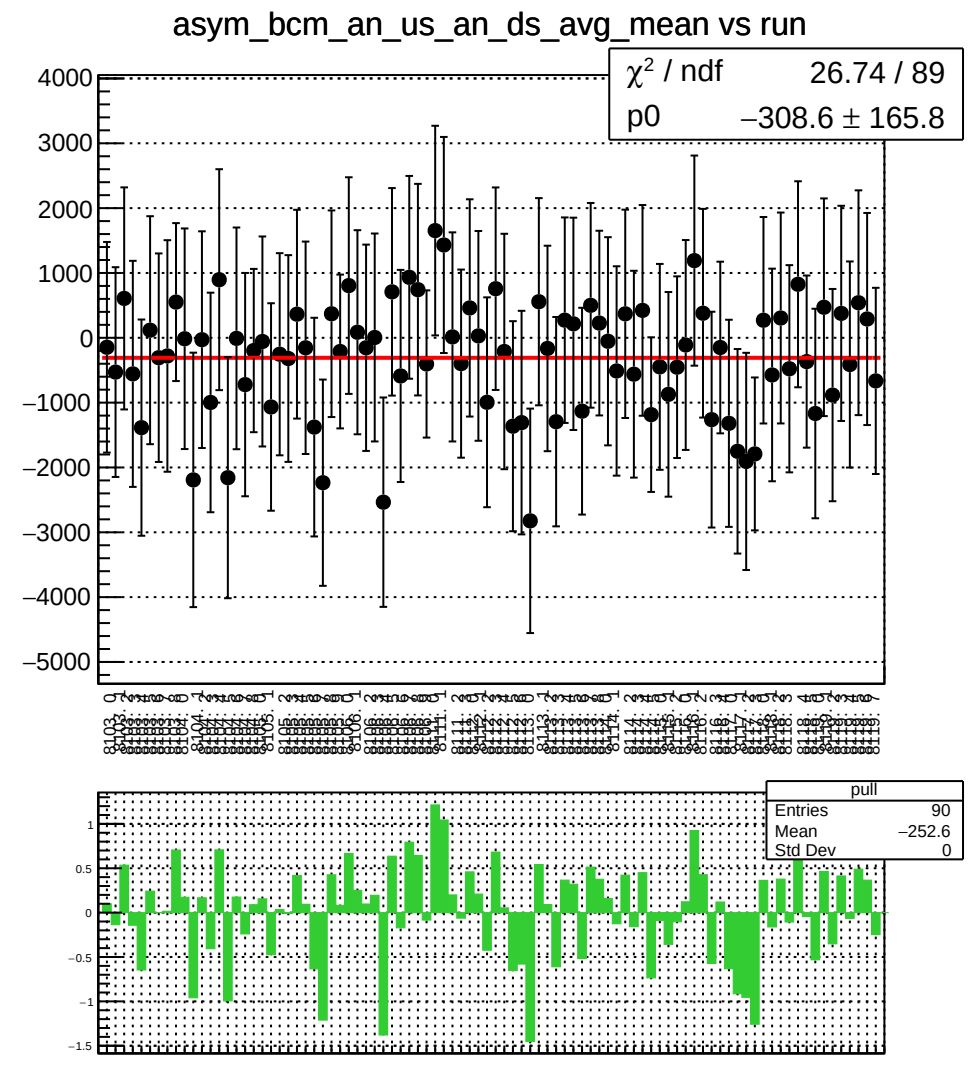

pull1D
Entries 90
Mean 0.001131
Std Dev 0.5433

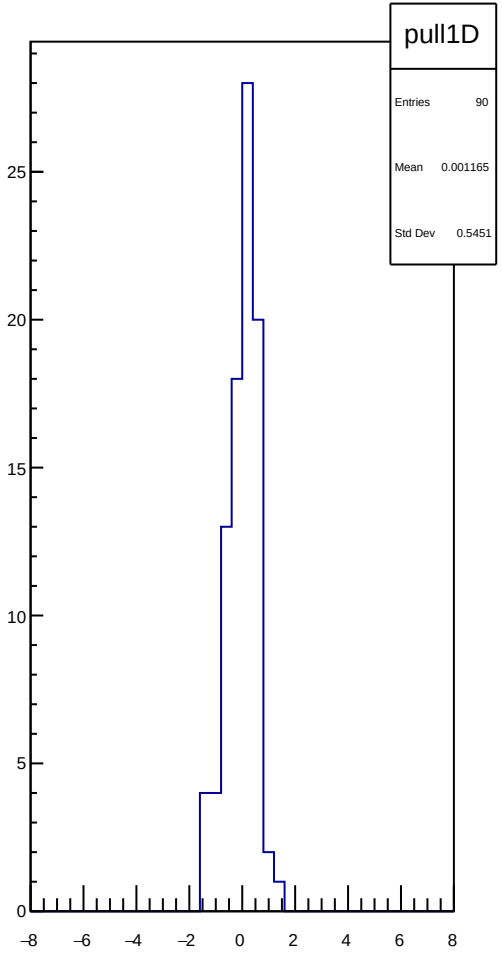

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3253 / 89
p0 155.6 ± 0.1174
190
180
170
160
150

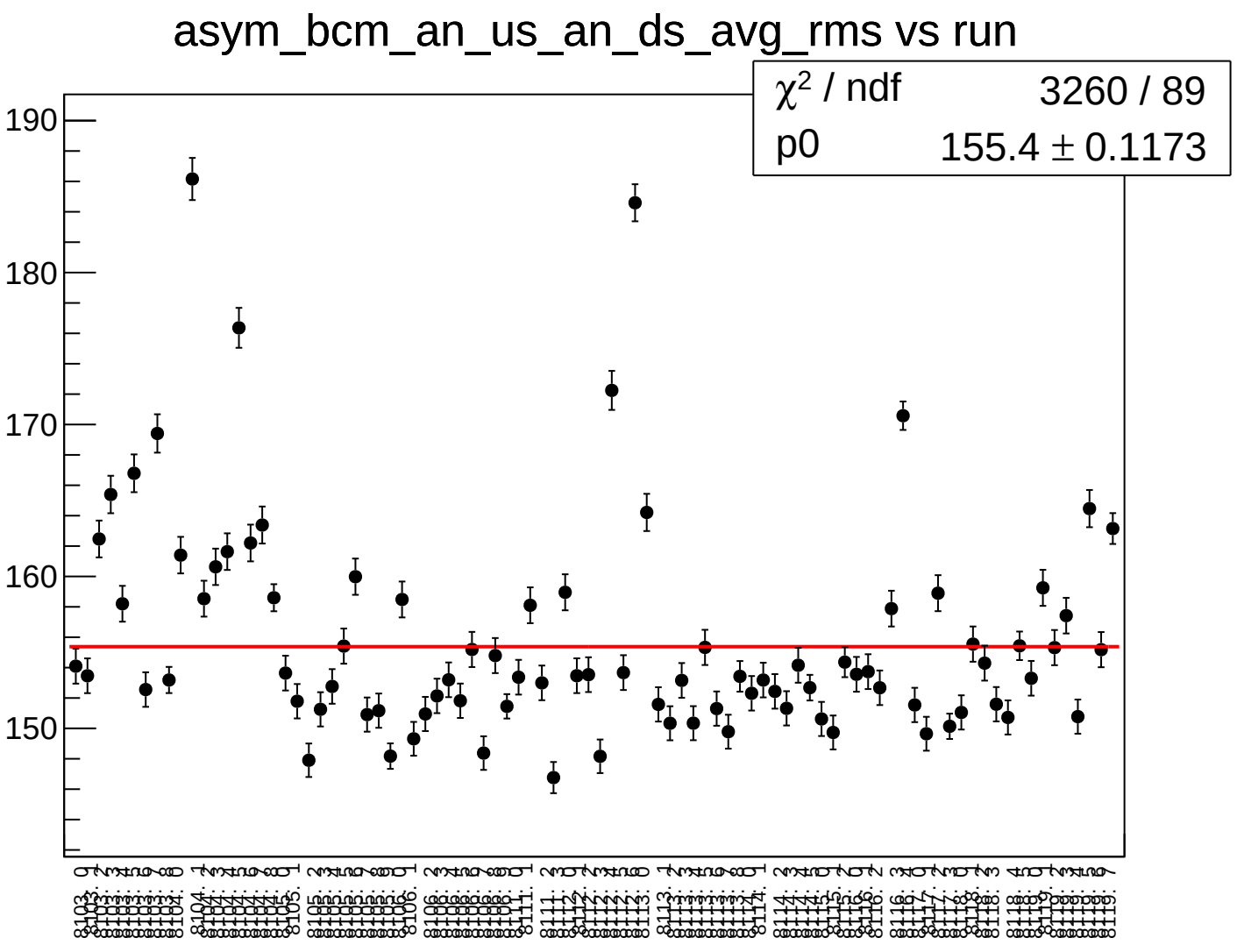

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 27.58 / 89
p0 −100.2 ± 56.93
1000
500
0
−500
−1000
−1500
pull
Entries 90
Mean −256.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

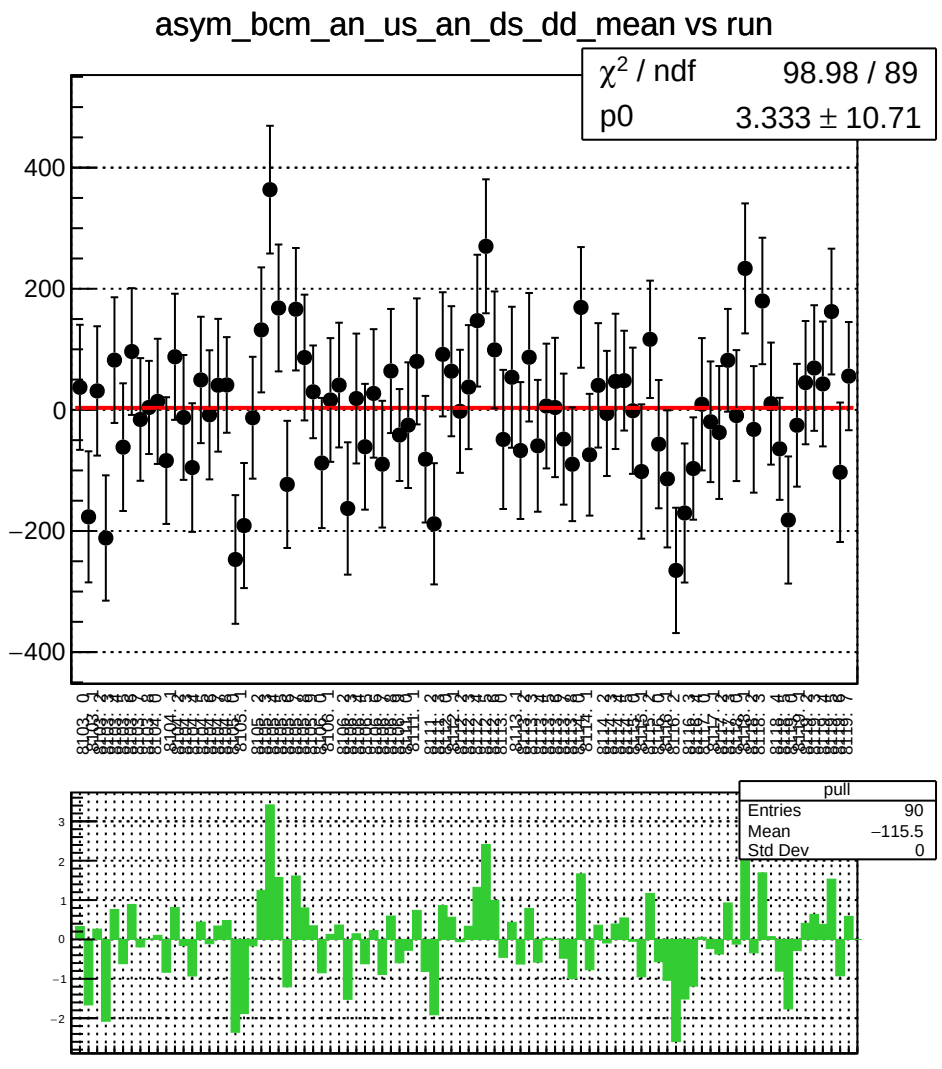

pull1D
Entries 90
Mean 0.0006614
Std Dev 0.5536
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

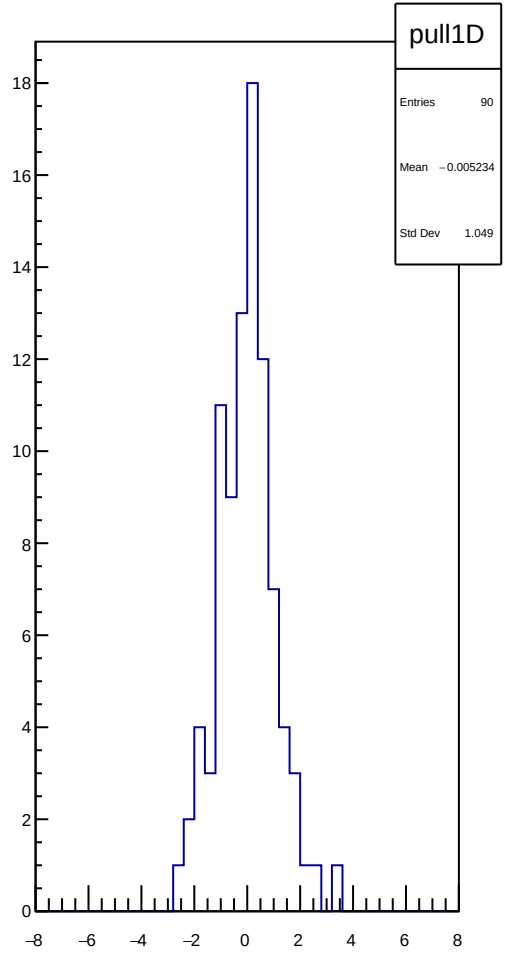

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3064 / 89
p0 53.34 ± 0.04025
64
62
60
58
56
54
52
50

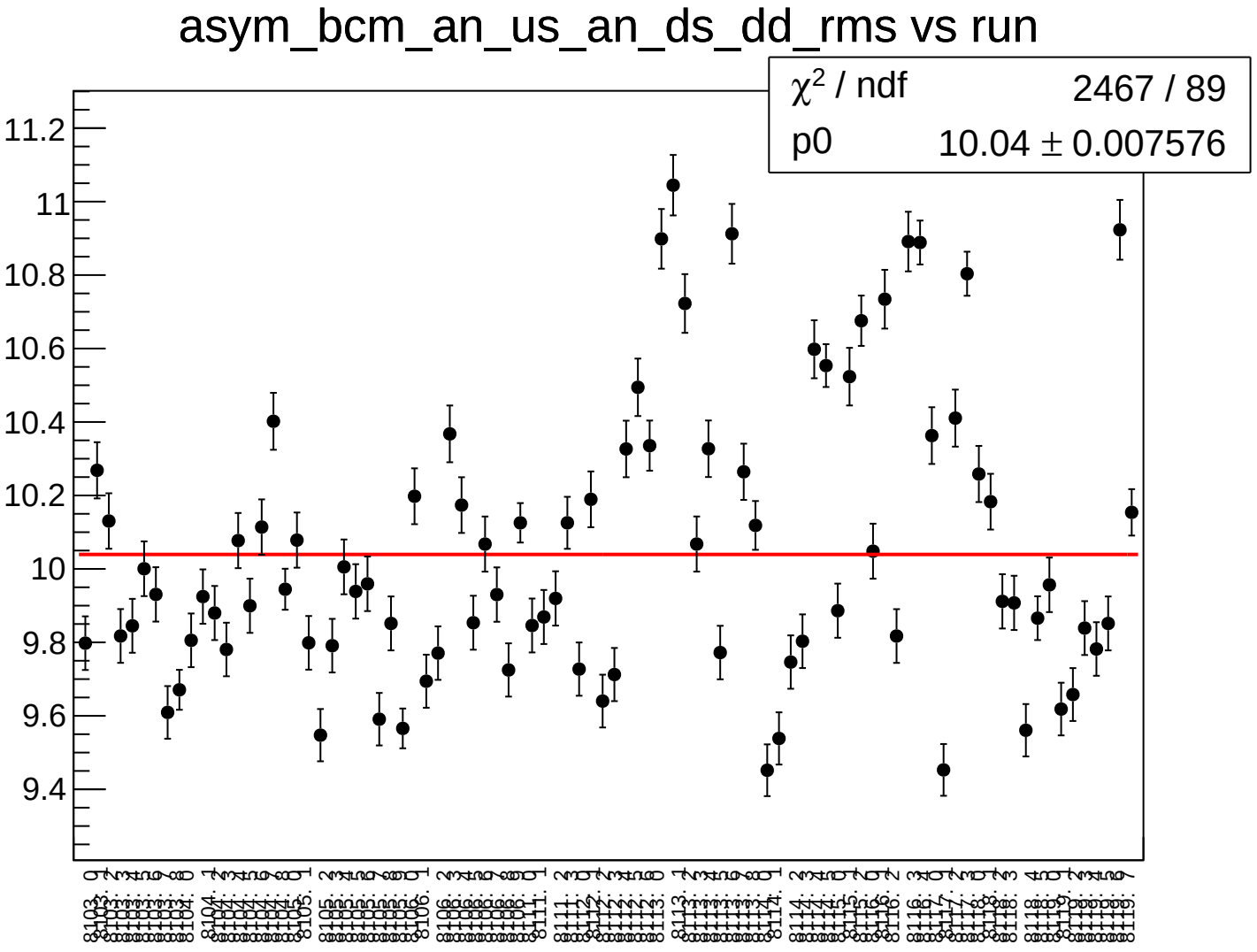

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 26.74 / 89
p0 −308.6 ± 165.8
pull
Entries 90
Mean −252.6
Std Dev 0

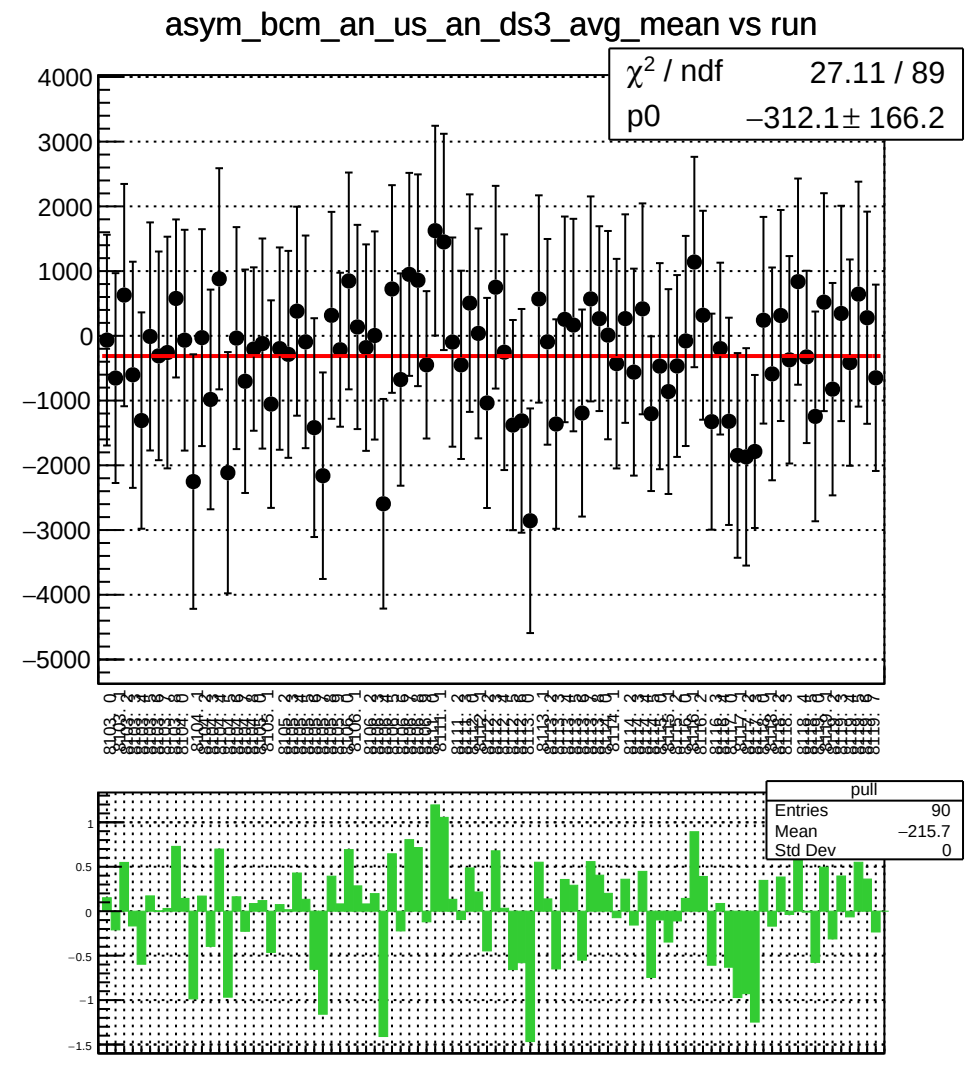

pull1D
Entries 90
Mean 0.001165
Std Dev 0.5451

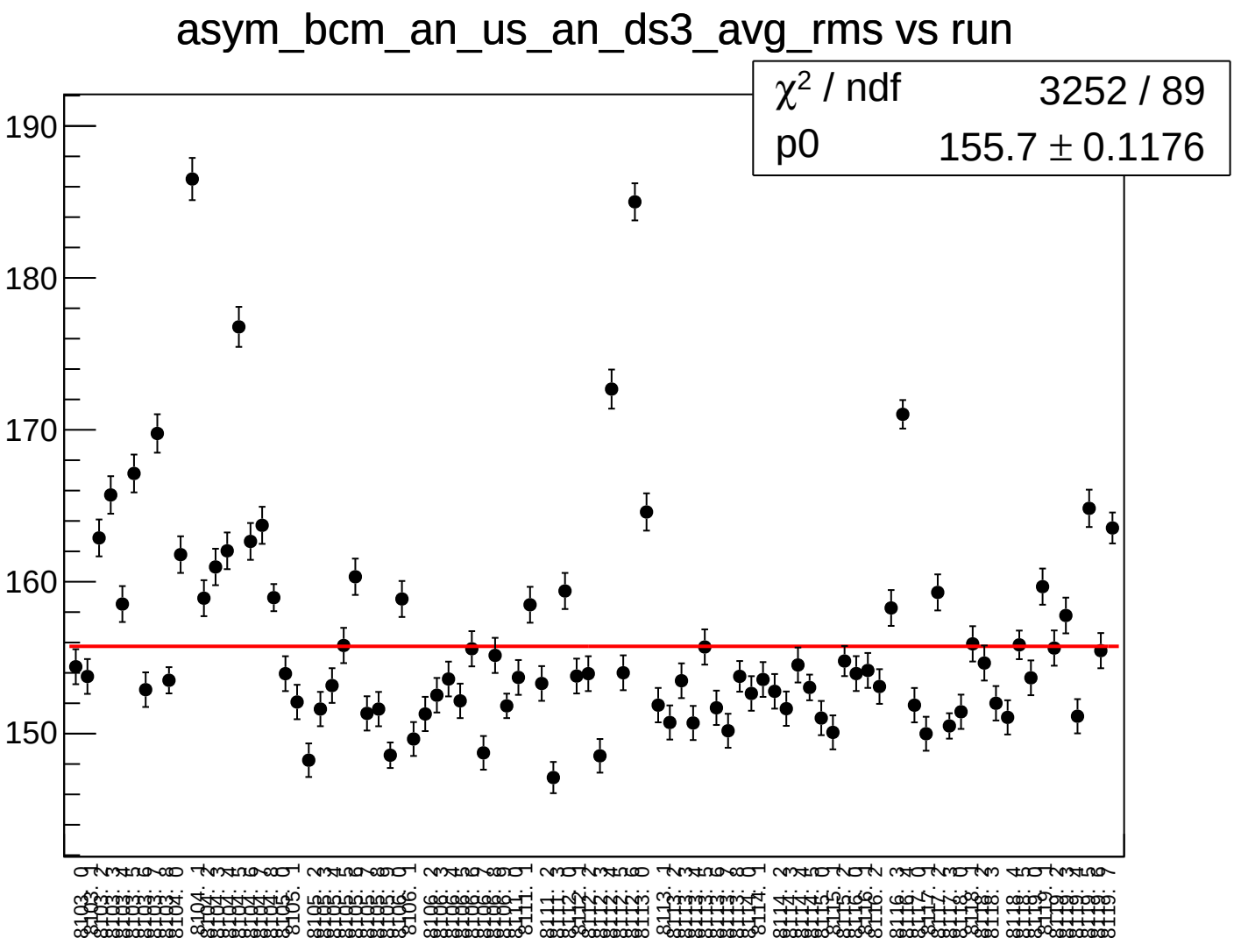

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3260 / 89
p0 155.4 ± 0.1173
190
180
170
160
150

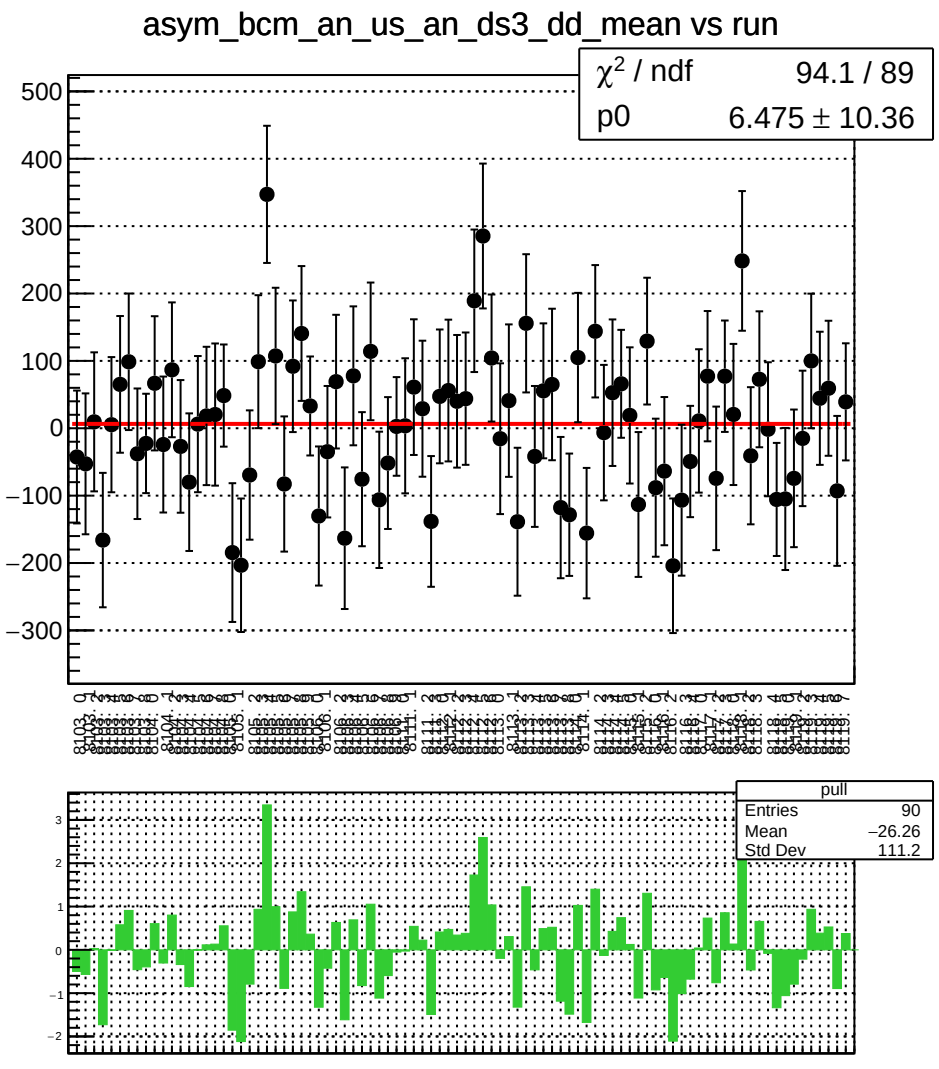

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 98.98 / 89
p0 3.333 ± 10.71
400
200
0
−200
−400
pull
Entries 90
Mean −115.5
Std Dev 0
3
2
1
0
−1
−2

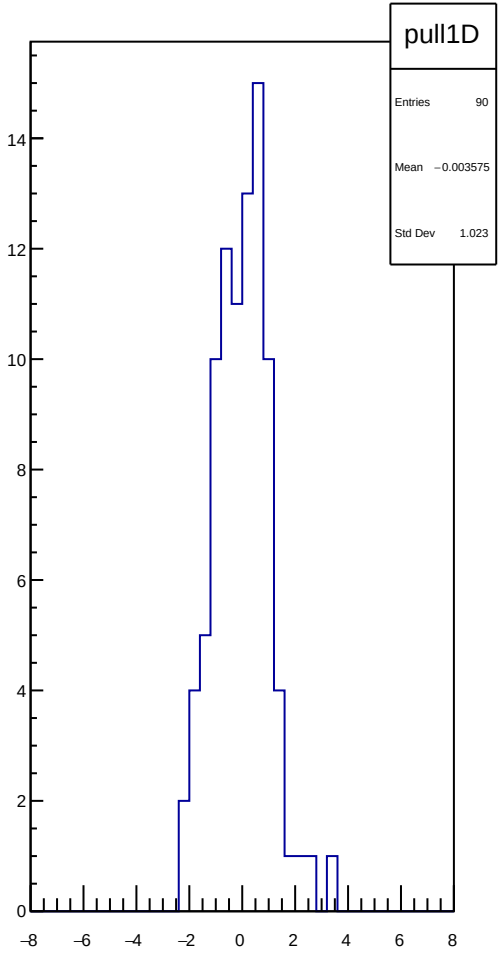

pull1D
Entries 90
Mean −0.005234
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

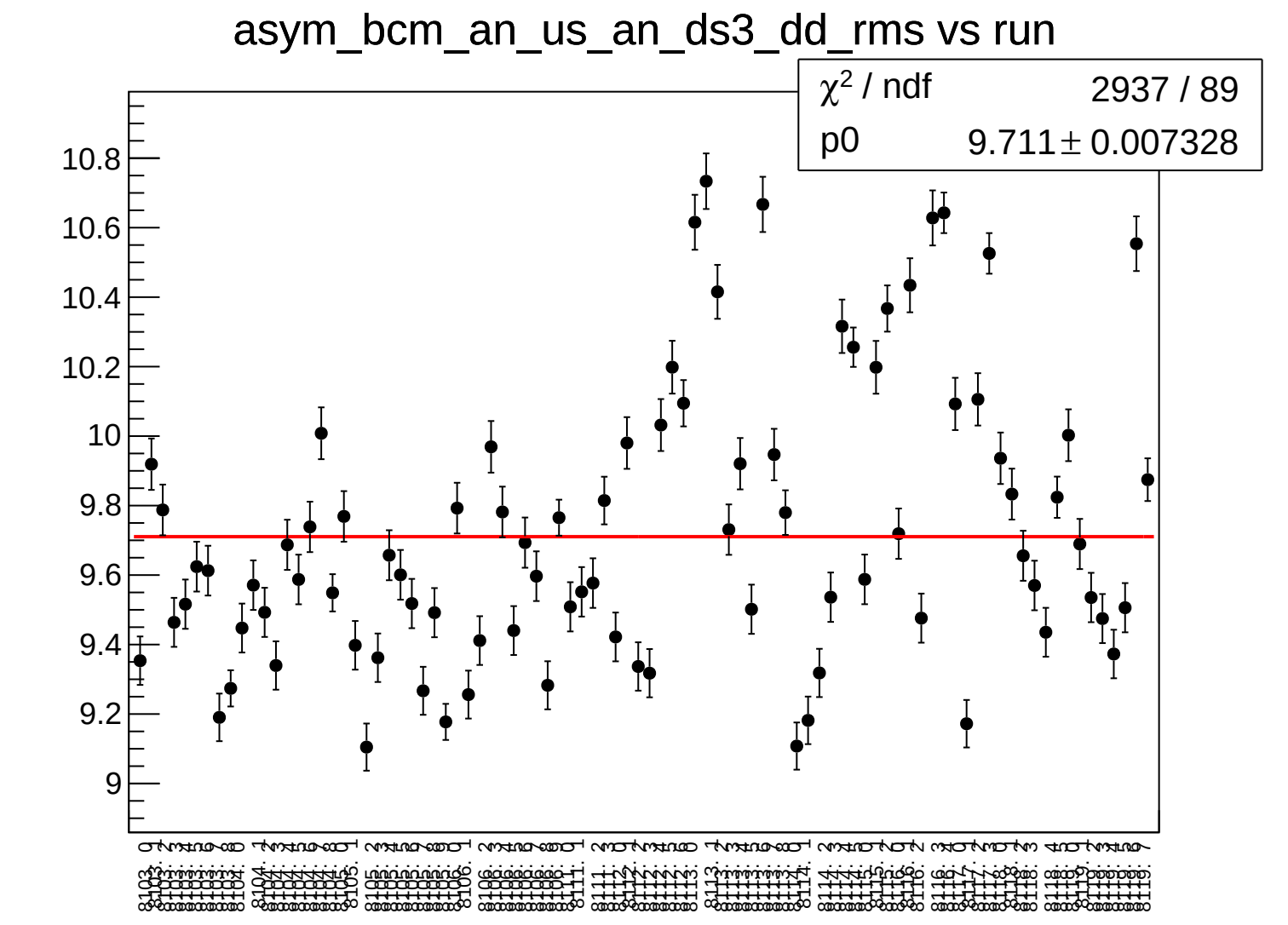

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 2467 / 89
p0 10.04 ± 0.007576
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4

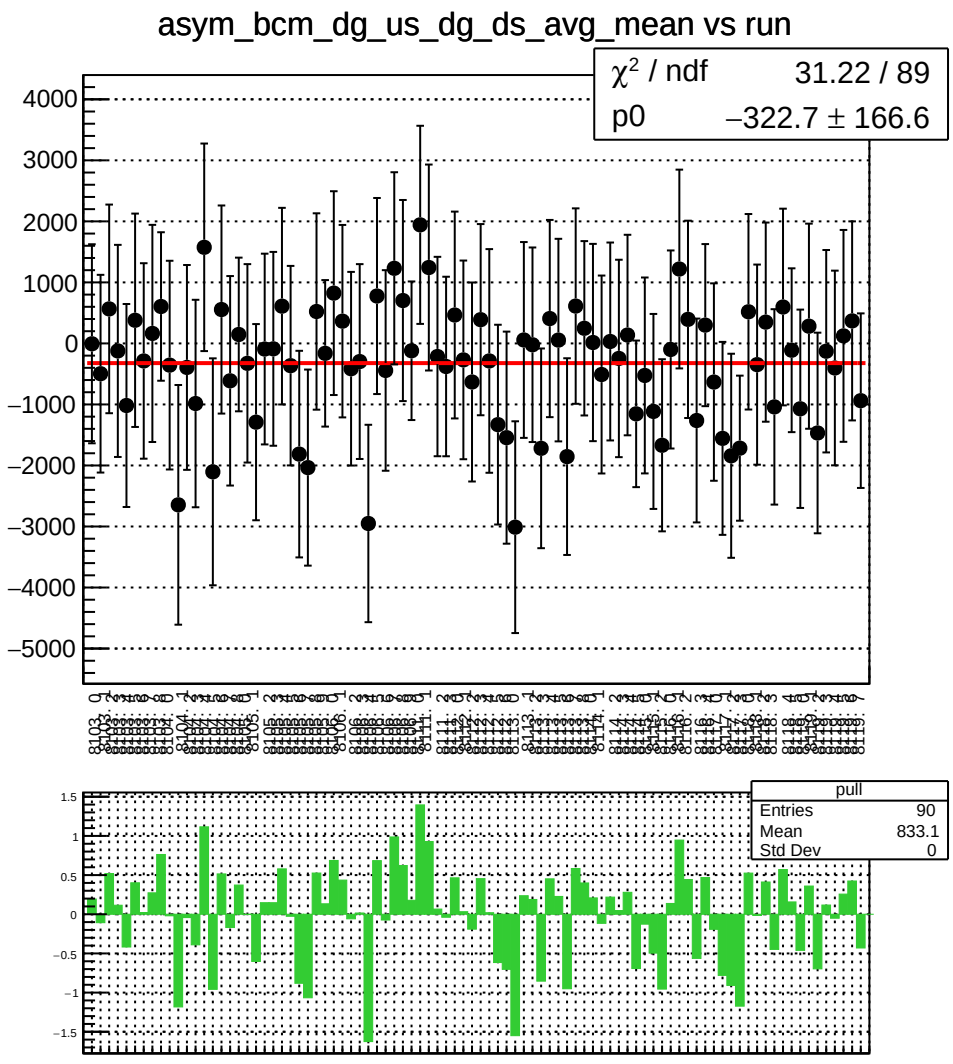

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 27.11 / 89
p0 −312.1 ± 166.2
pull
Entries 90
Mean −215.7
Std Dev 0
pull1D
Entries 90
Mean 0.001183
Std Dev 0.5488

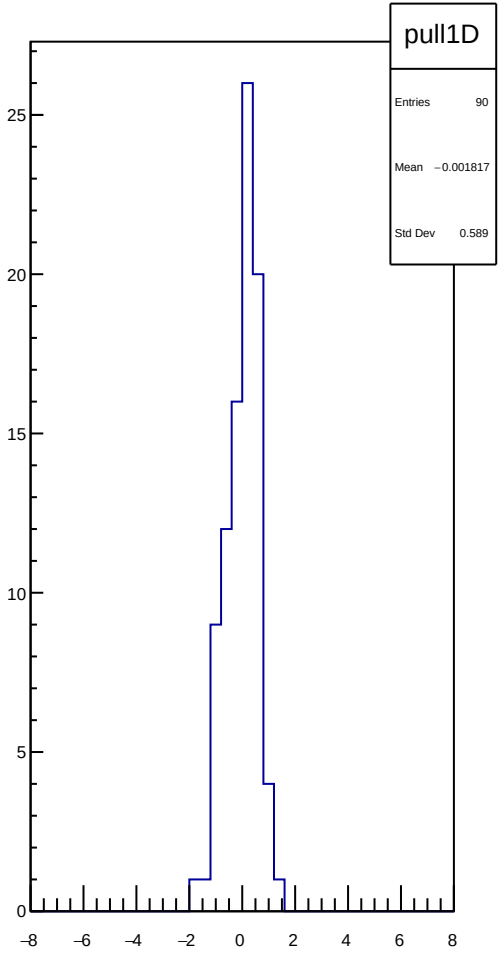

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3252 / 89
p0 155.7 ± 0.1176
190
180
170
160
150

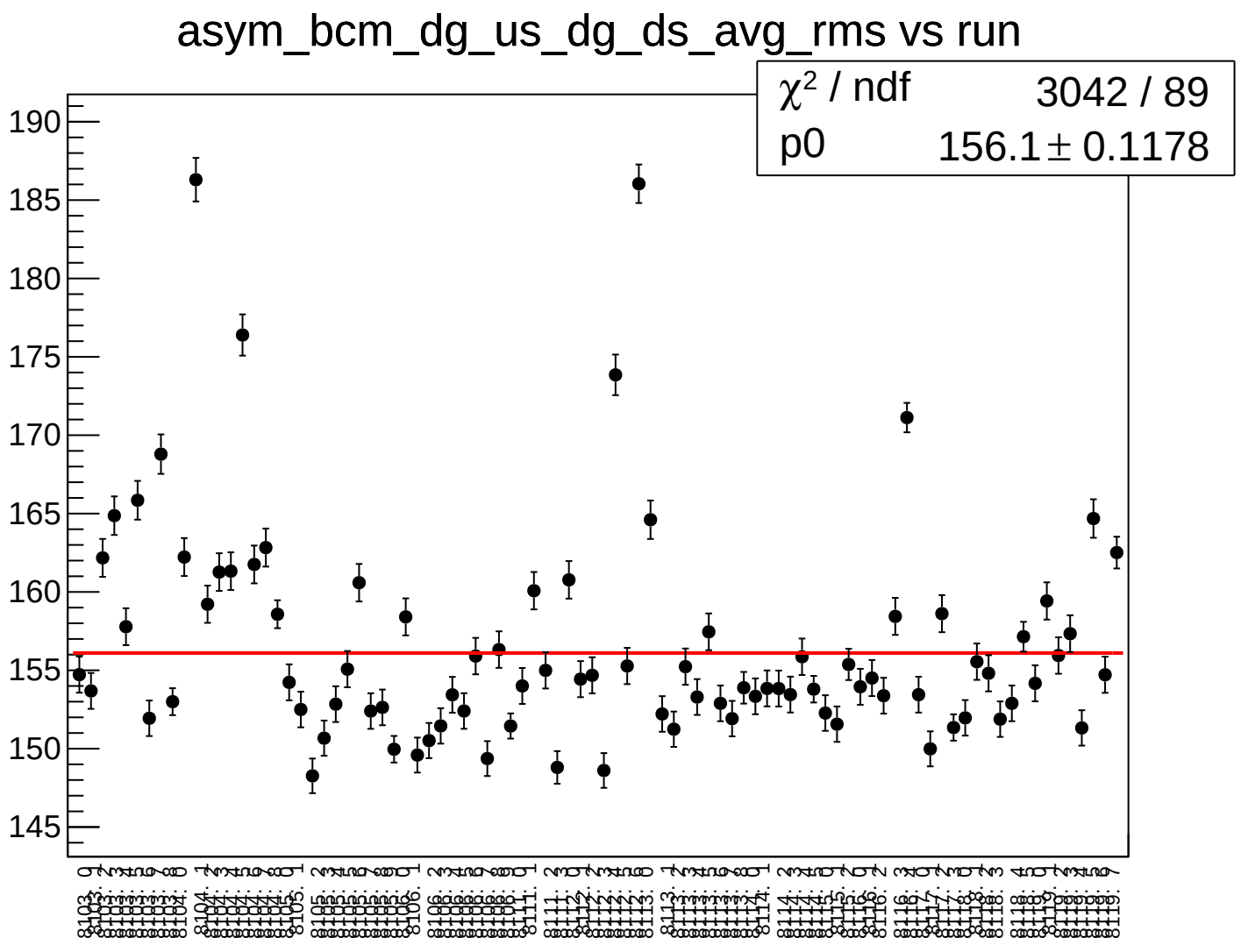

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 94.1 / 89
p0 6.475 ± 10.36
pull
Entries 90
Mean −26.26
Std Dev 111.2

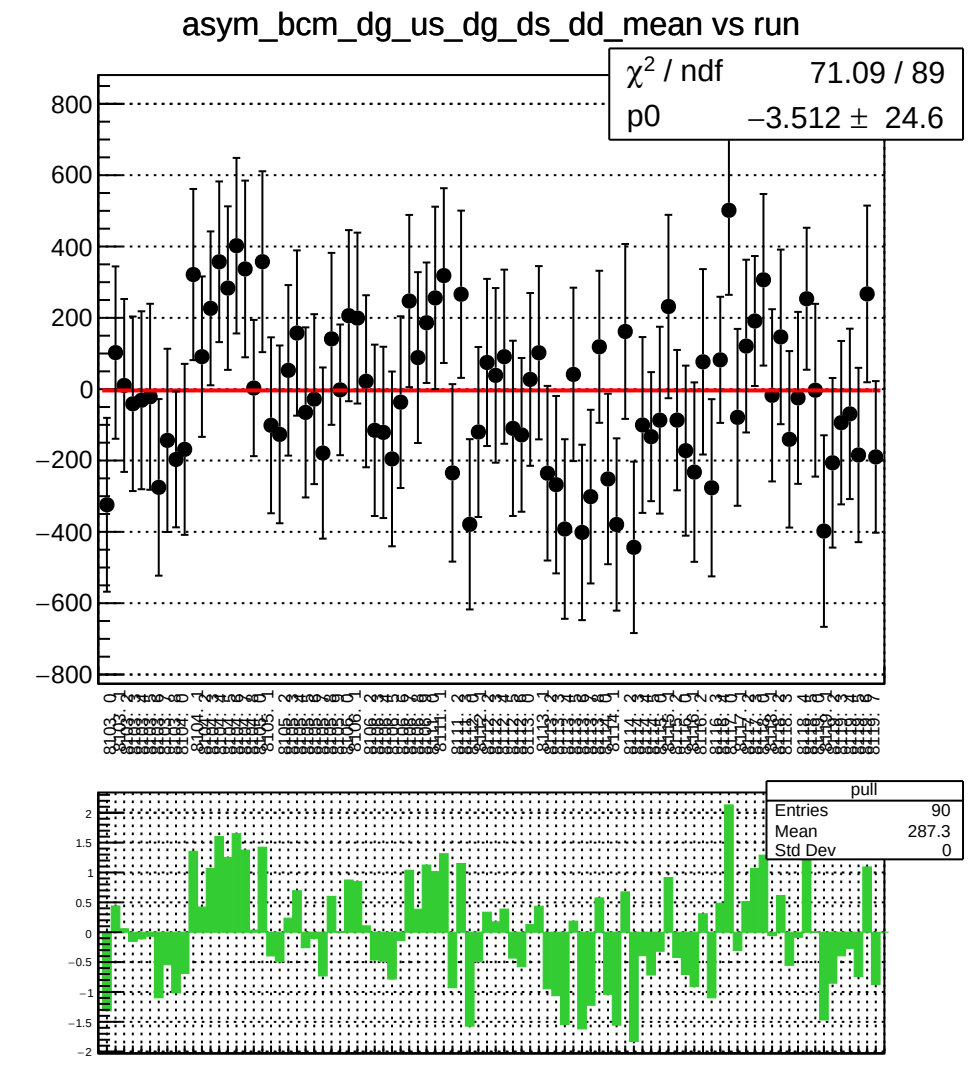

pull1D
Entries 90
Mean −0.003575
Std Dev 1.023

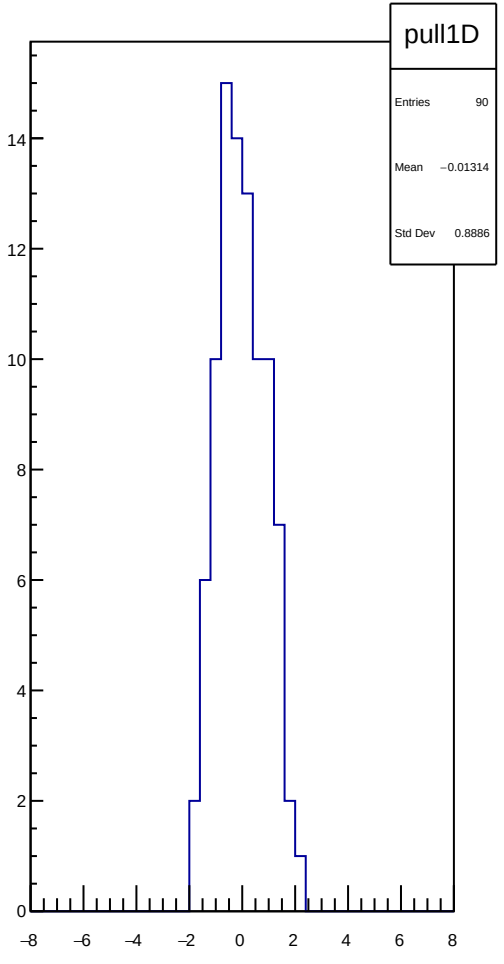

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2937 / 89
p0 9.711 ± 0.007328
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9

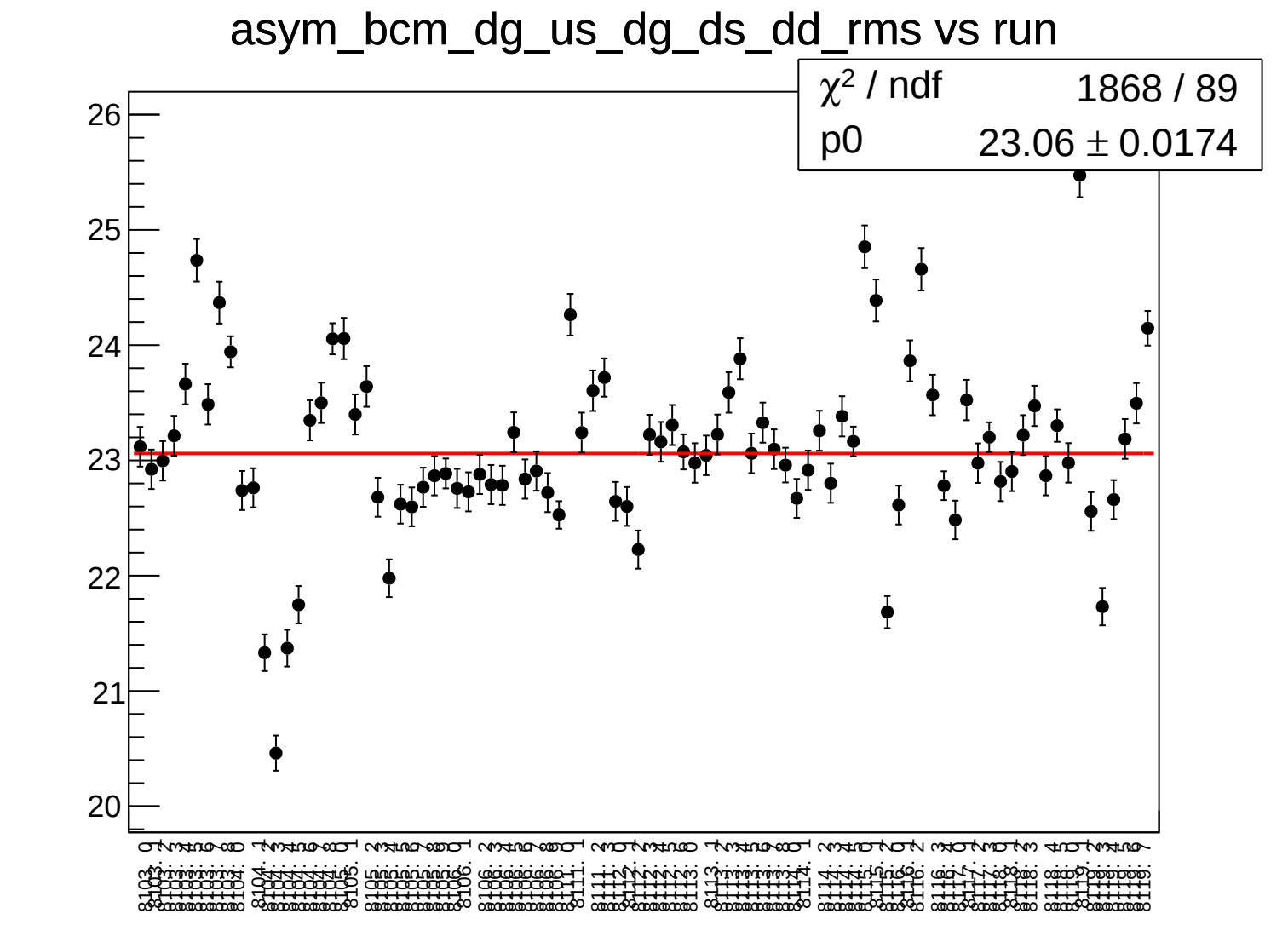

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 31.22 / 89
p0 −322.7 ± 166.6
pull
Entries 90
Mean 833.1
Std Dev 0

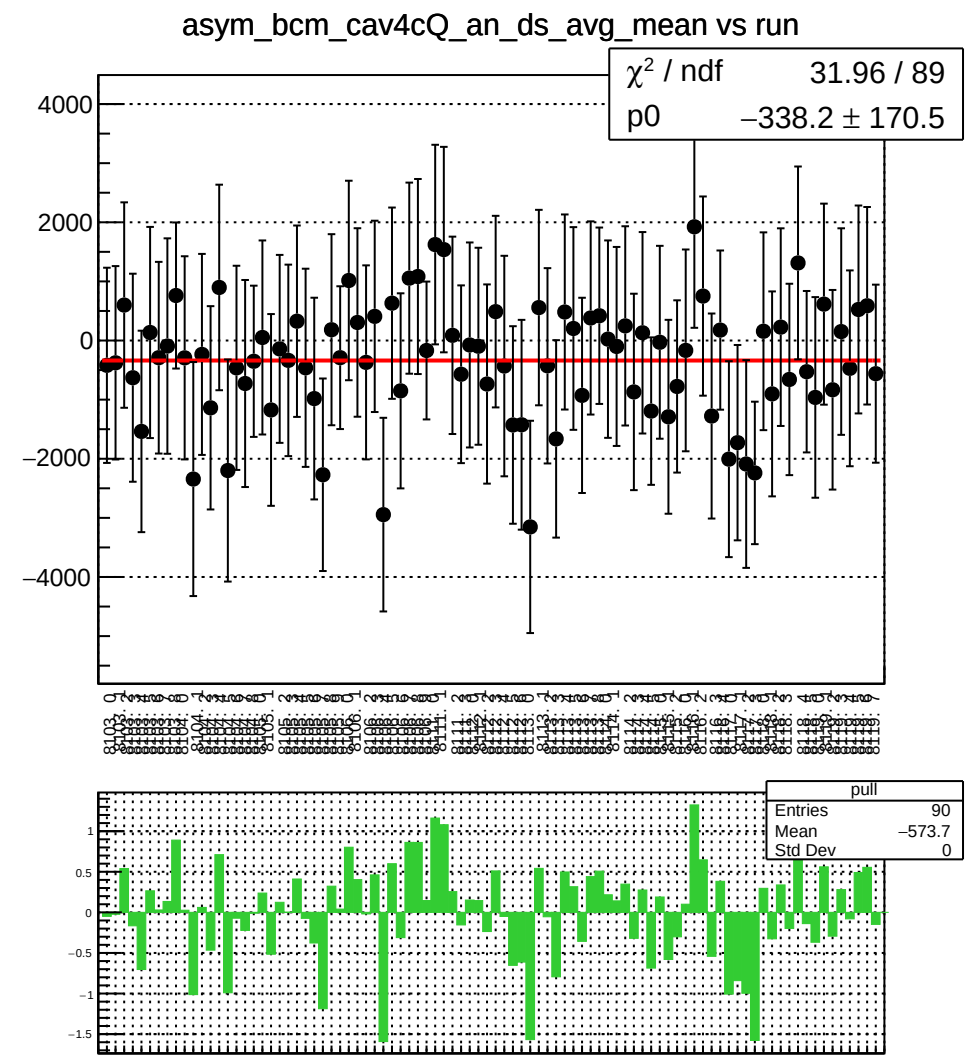

pull1D
Entries 90
Mean −0.001817
Std Dev 0.589

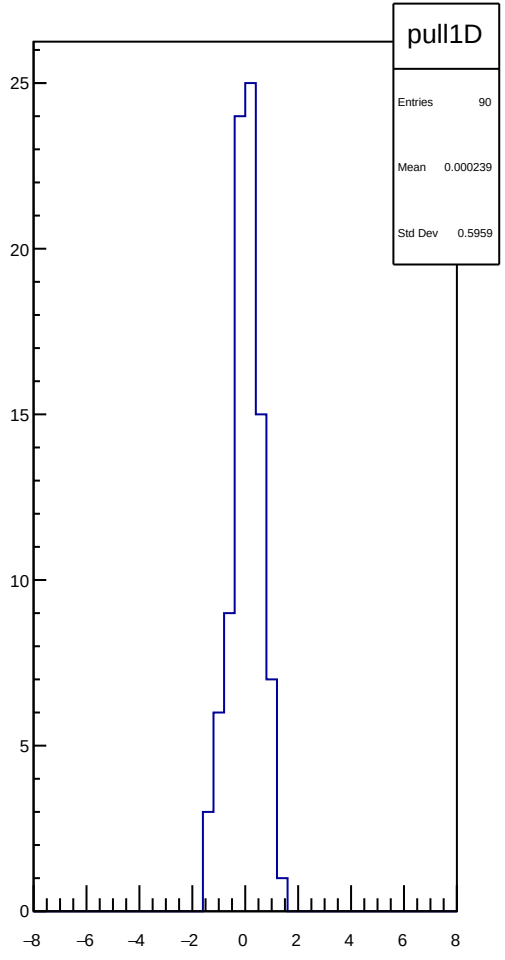

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3042 / 89
p0 156.1 ± 0.1178
190
185
180
175
170
165
160
155
150
145

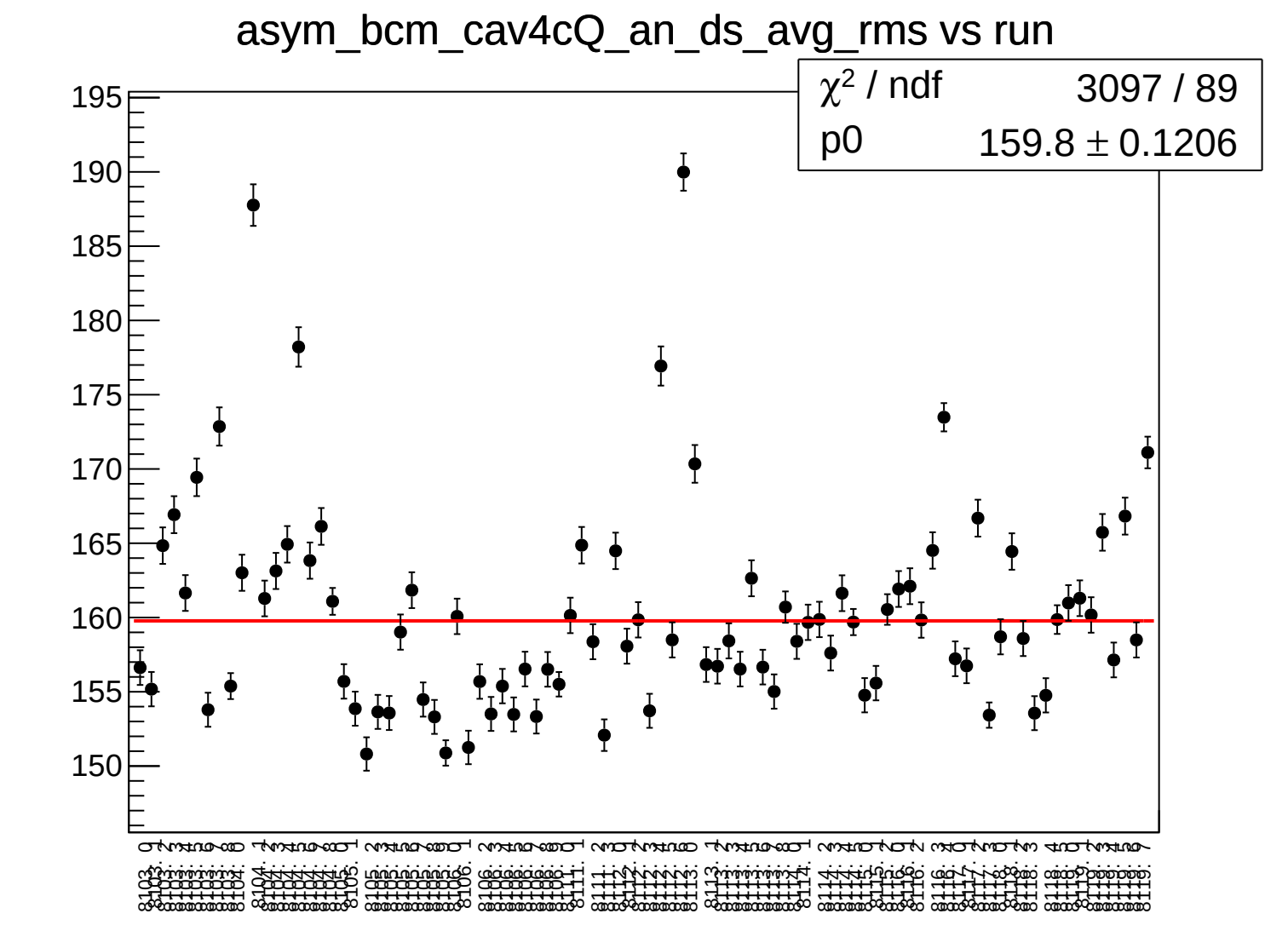

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 71.09 / 89
p0 −3.512 ± 24.6
pull
Entries 90
Mean 287.3
Std Dev 0

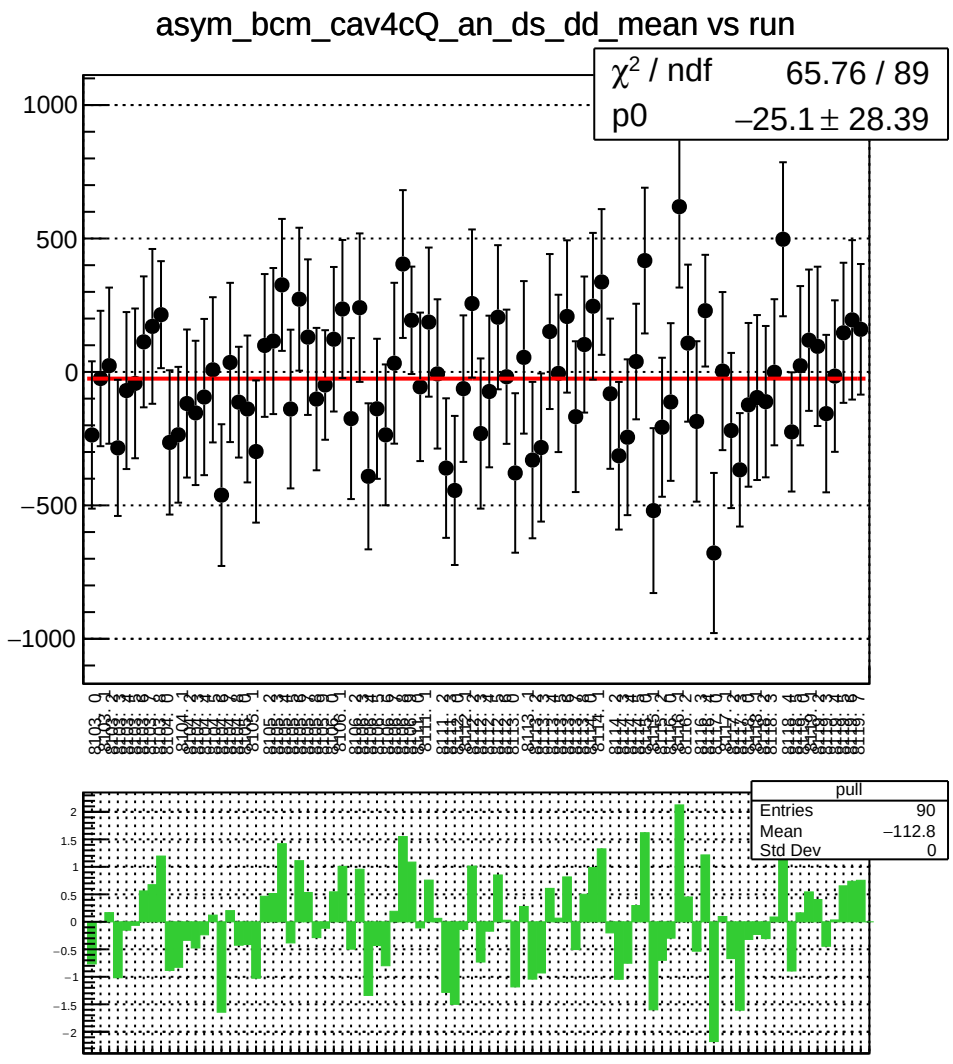

pull1D
Entries 90
Mean −0.01314
Std Dev 0.8886

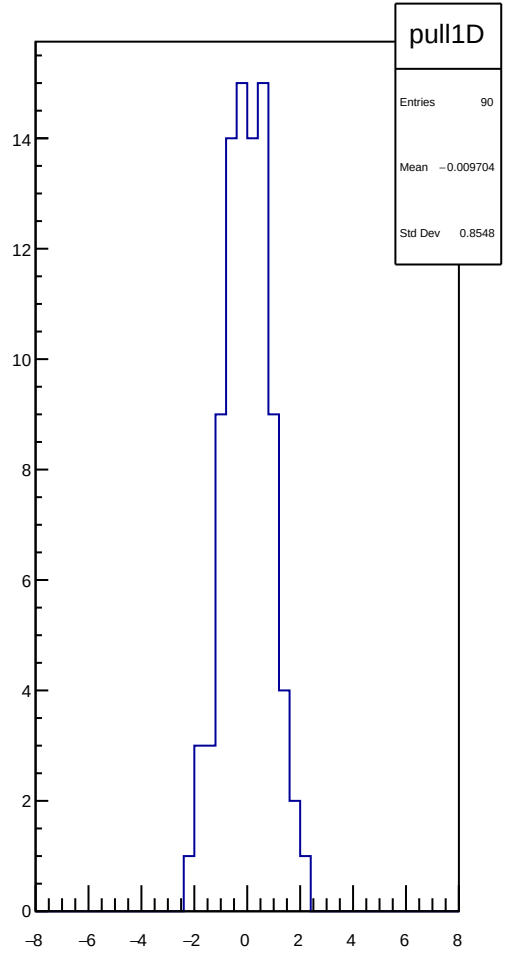

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1868 / 89
p0 23.06 ± 0.0174
26
25
24
23
22
21
20

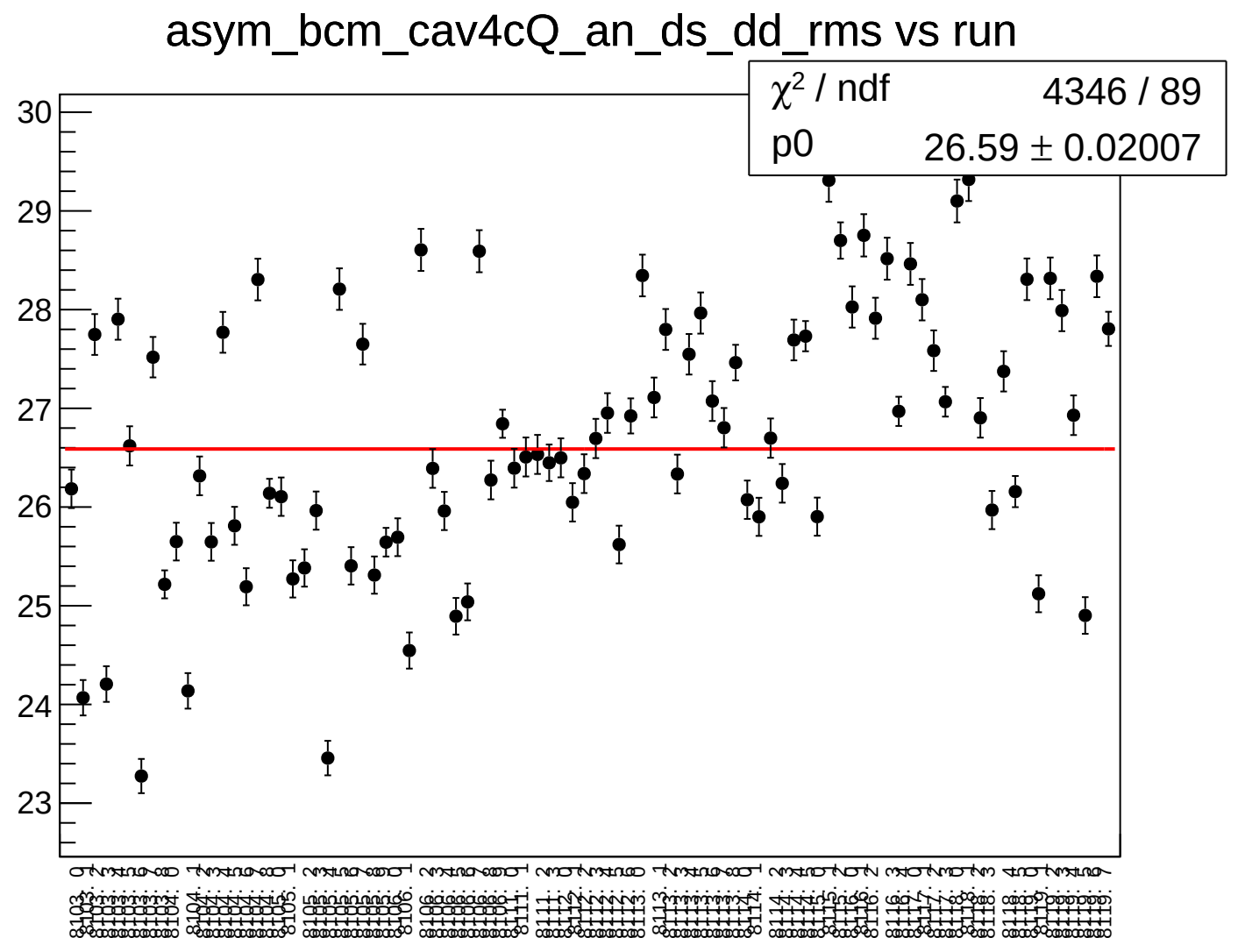

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 31.96 / 89
p0 −338.2 ± 170.5
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −573.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

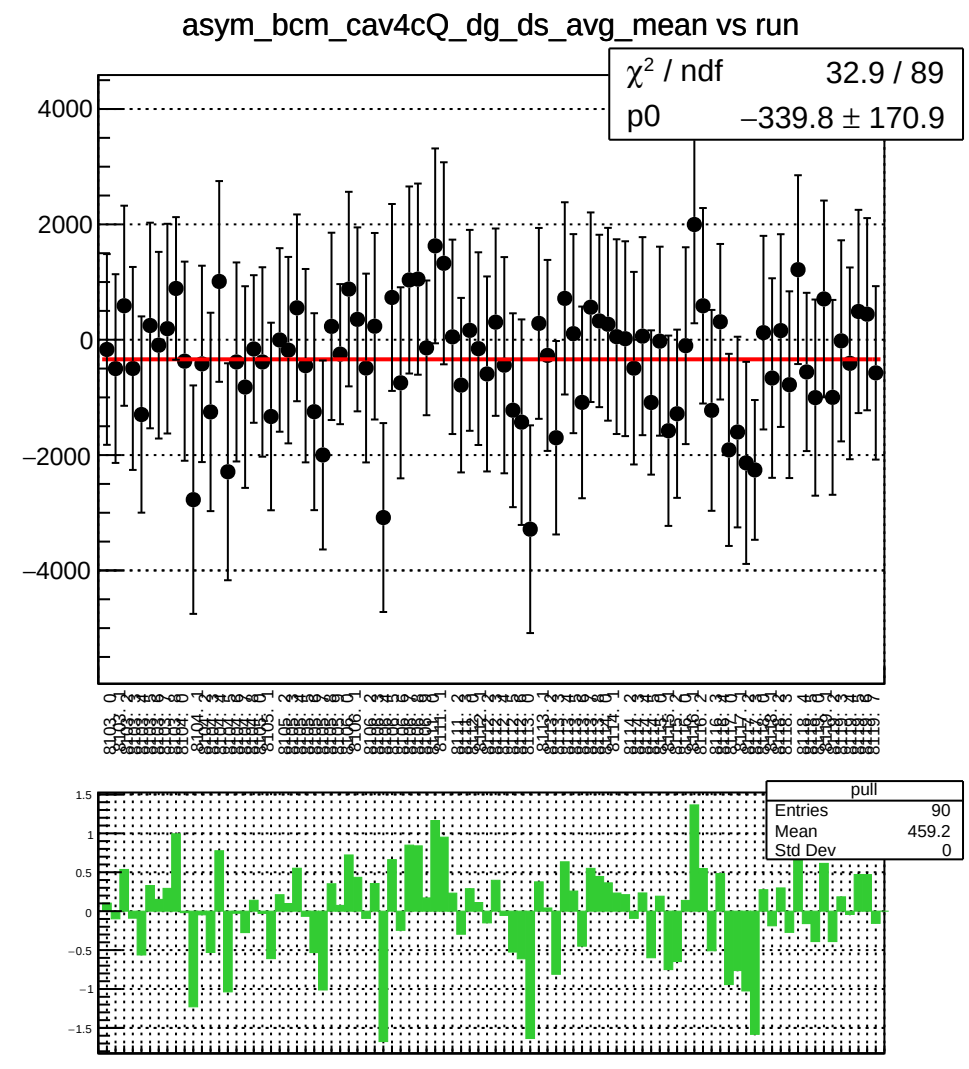

pull1D
Entries 90
Mean 0.000239
Std Dev 0.5959
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

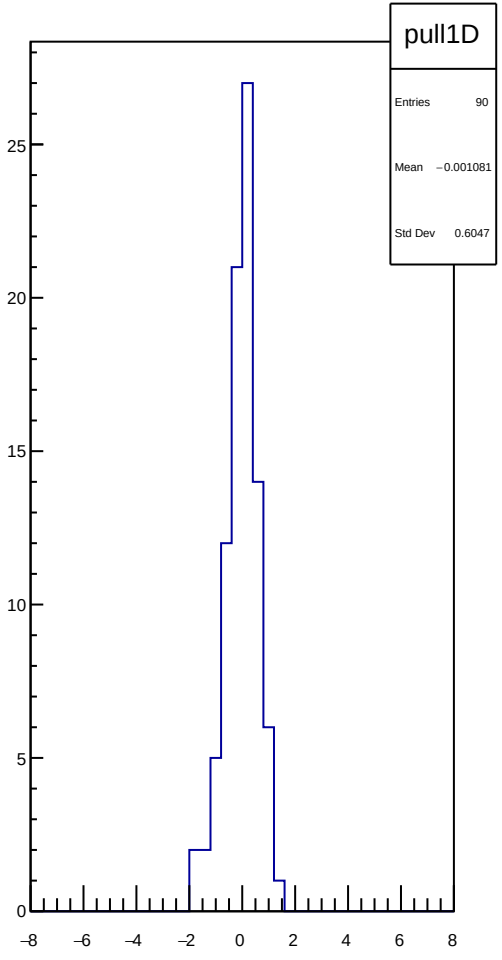

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 3097 / 89
p0 159.8 ± 0.1206
195
190
185
180
175
170
165
160
155
150

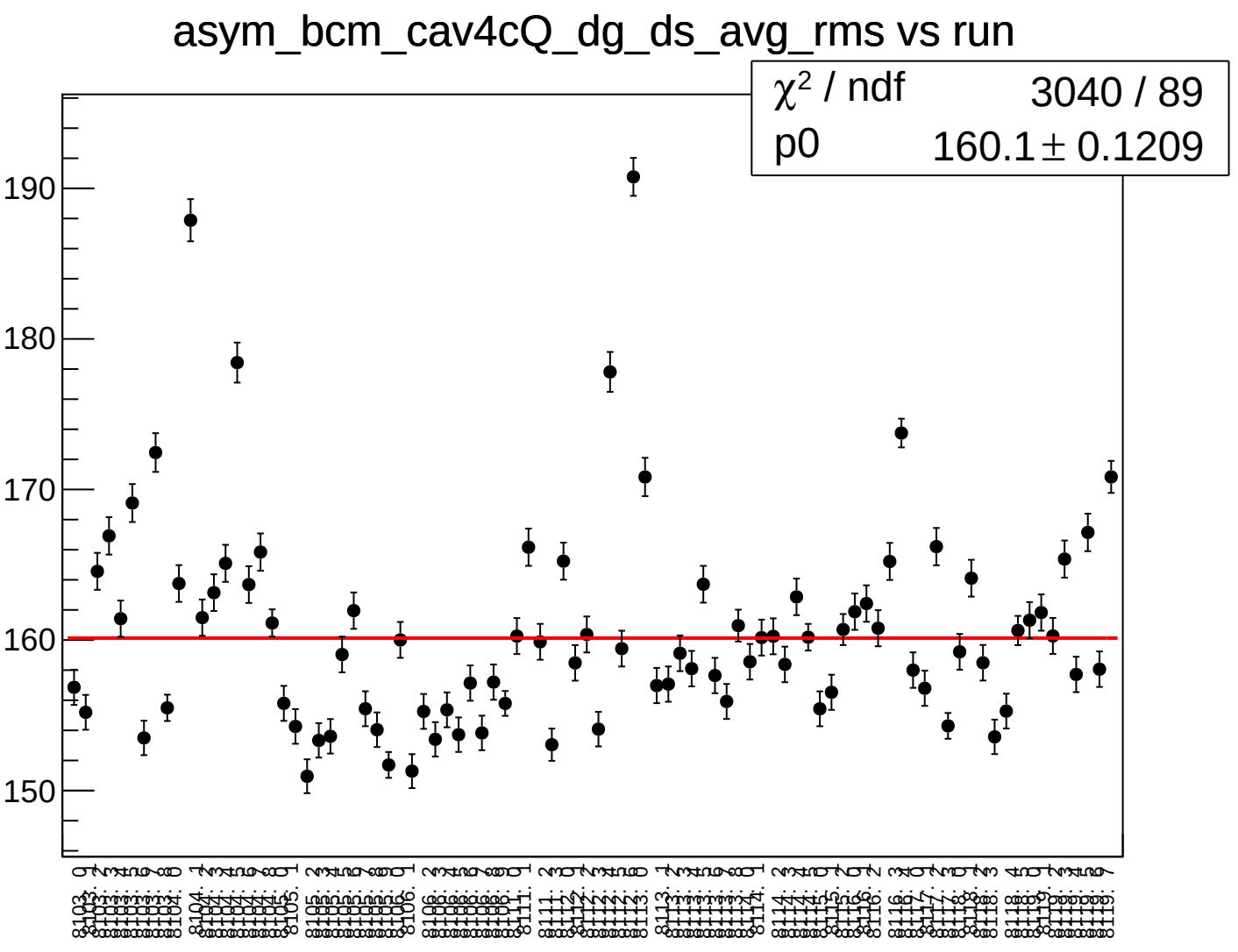

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 65.76 / 89
p0 −25.1 ± 28.39
1000
500
0
−500
−1000
pull
Entries 90
Mean −112.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

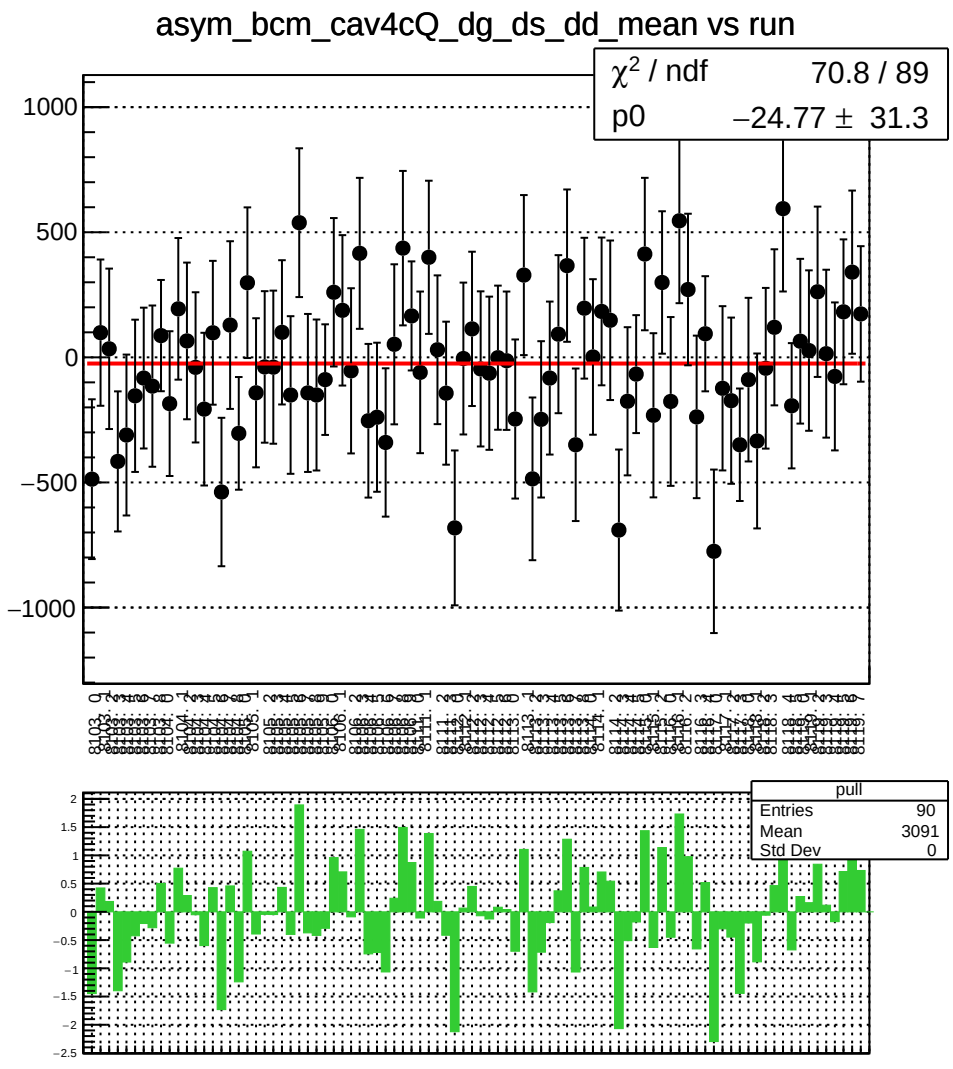

pull1D
Entries 90
Mean −0.009704
Std Dev 0.8548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

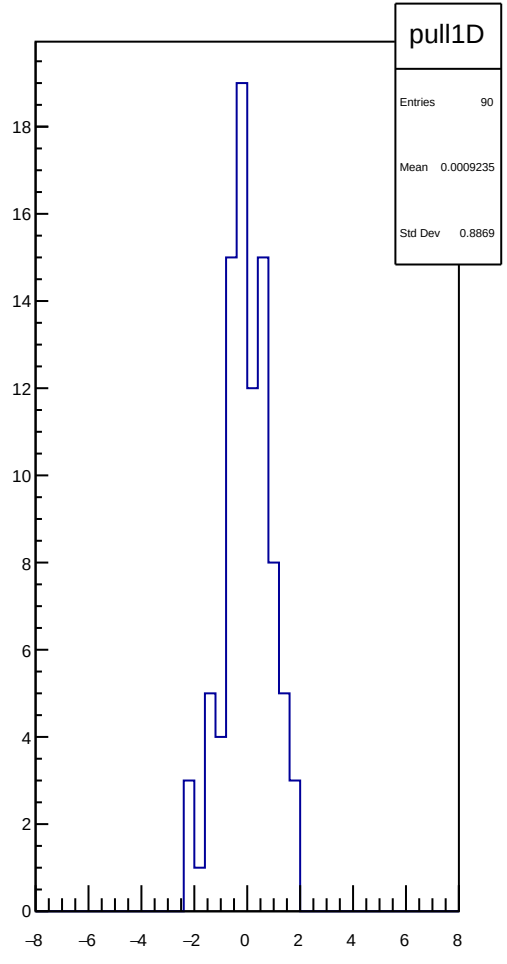

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 4346 / 89
p0 26.59 ± 0.02007
30
29
28
27
26
25
24
23

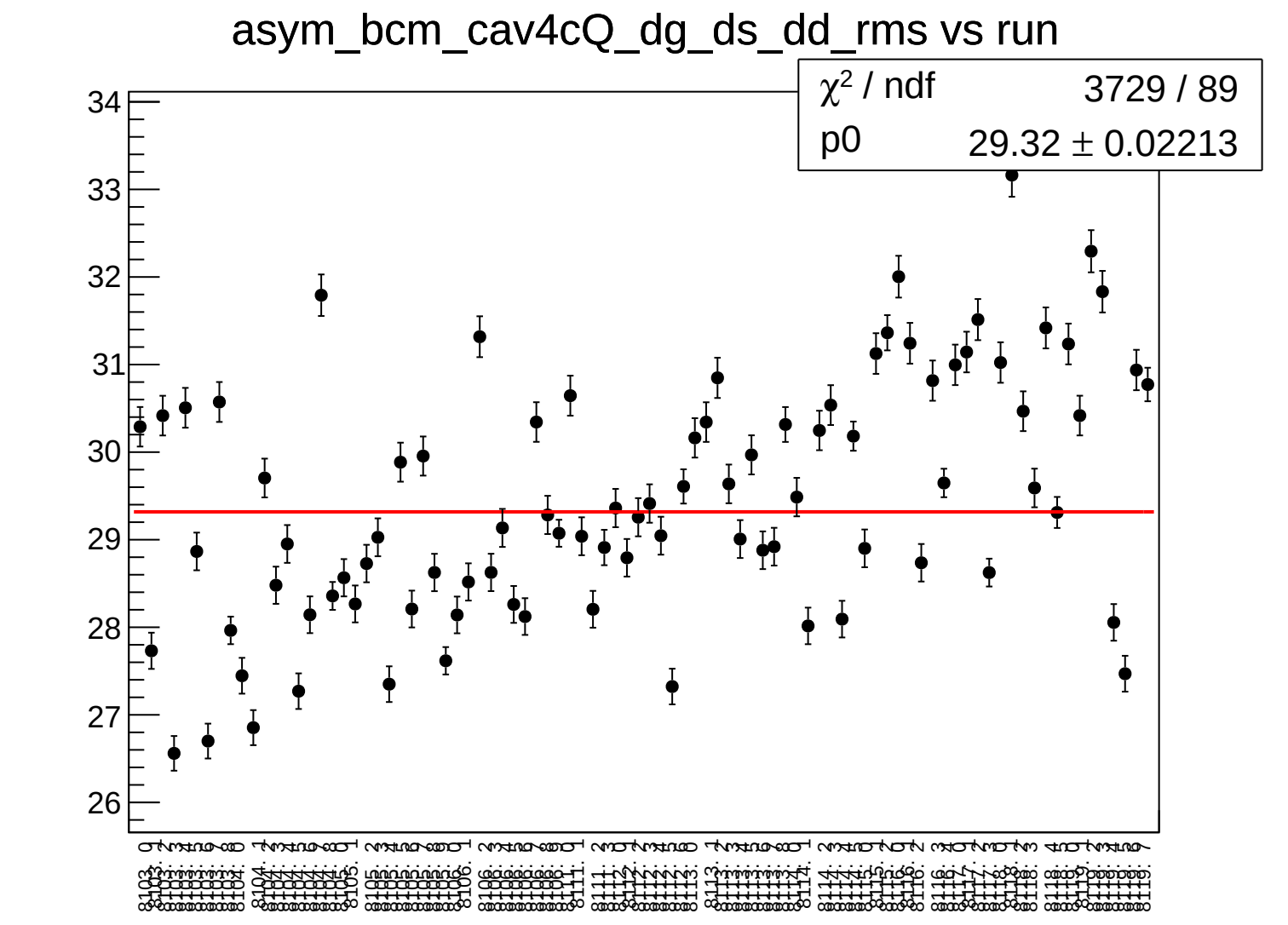

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 32.9 / 89
p0 −339.8 ± 170.9
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 459.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

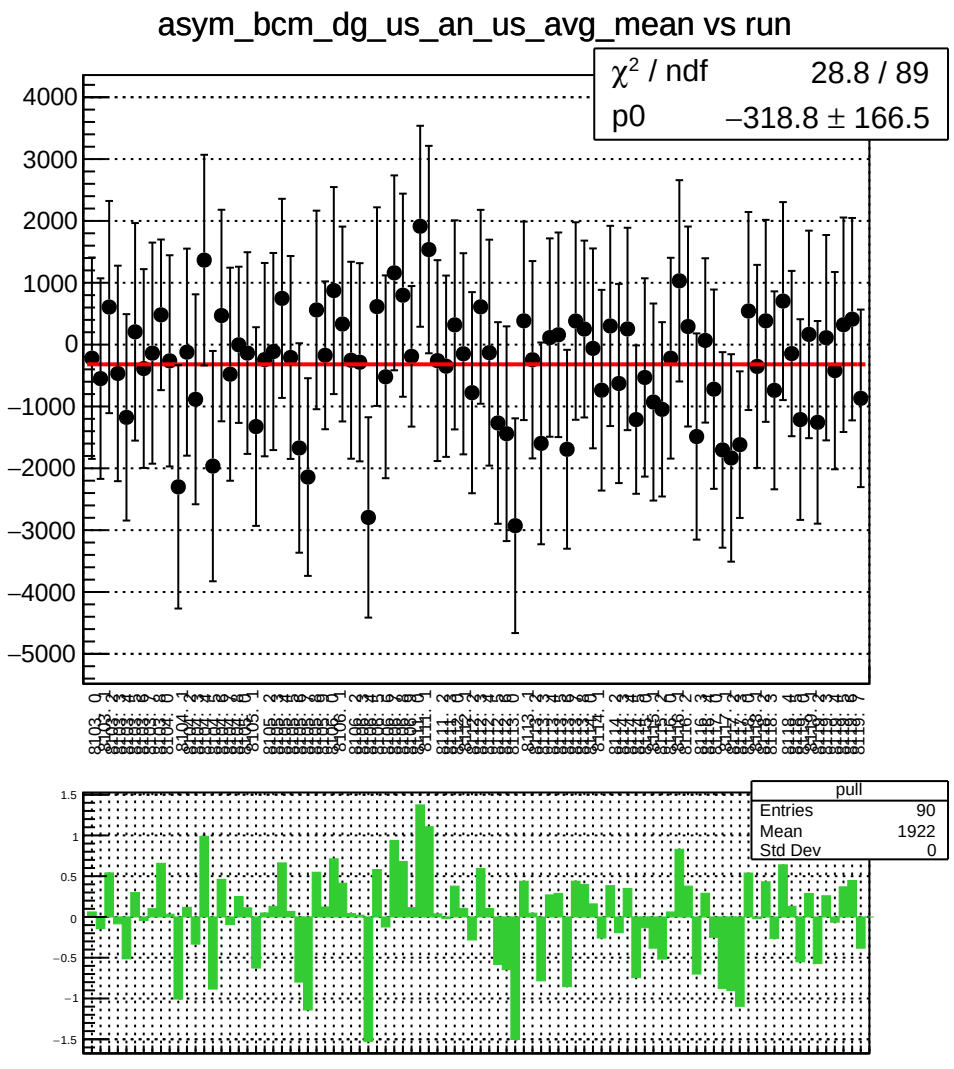

pull1D
Entries 90
Mean −0.001081
Std Dev 0.6047
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

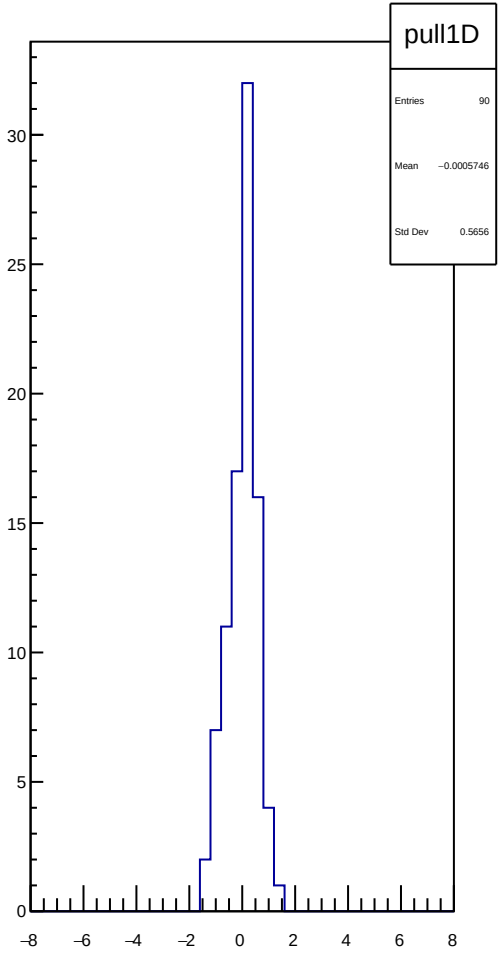

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3040 / 89
p0 160.1 ± 0.1209
190
180
170
160
150

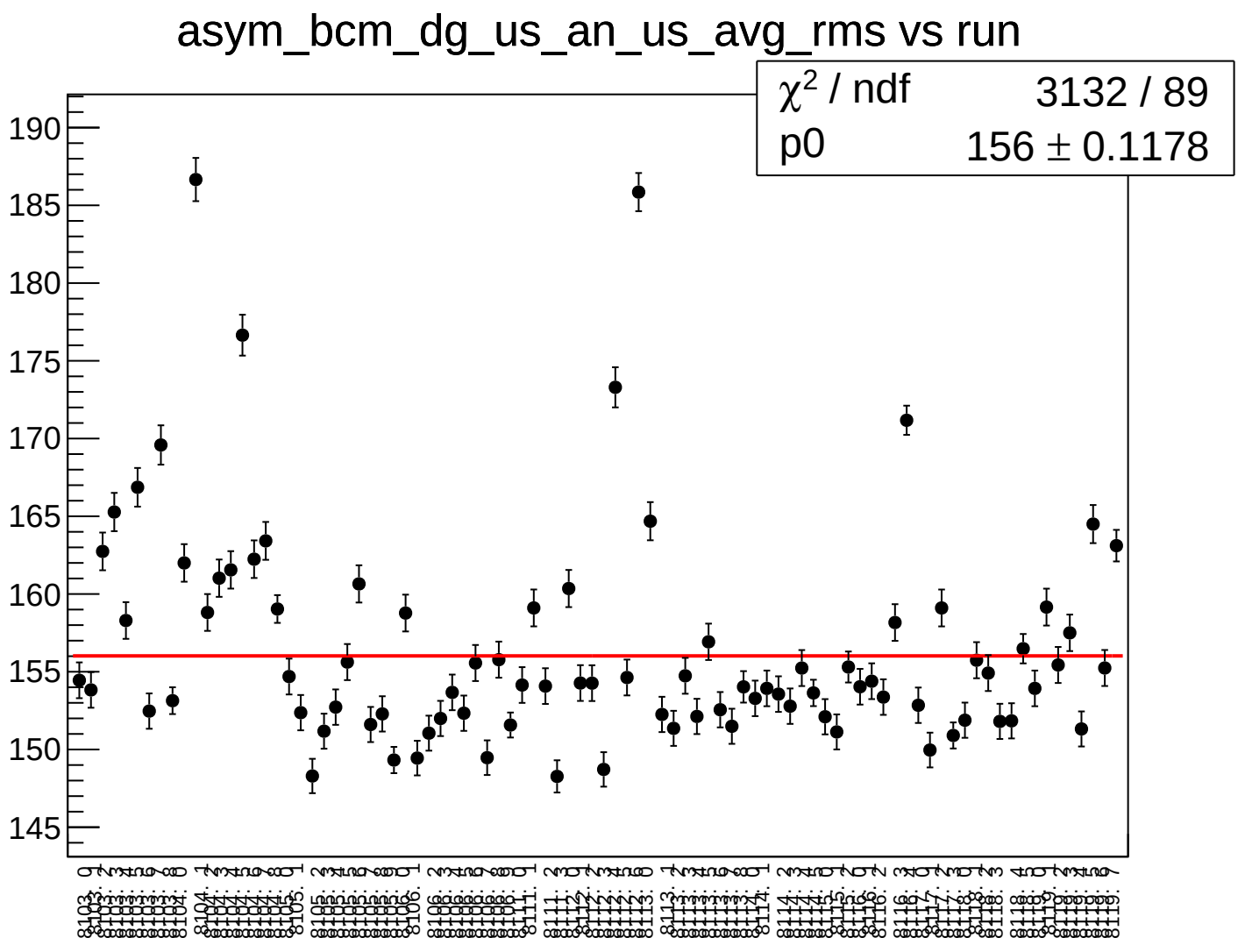

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 70.8 / 89
p0 −24.77 ± 31.3
1000
500
0
−500
−1000
pull
Entries 90
Mean 3091
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

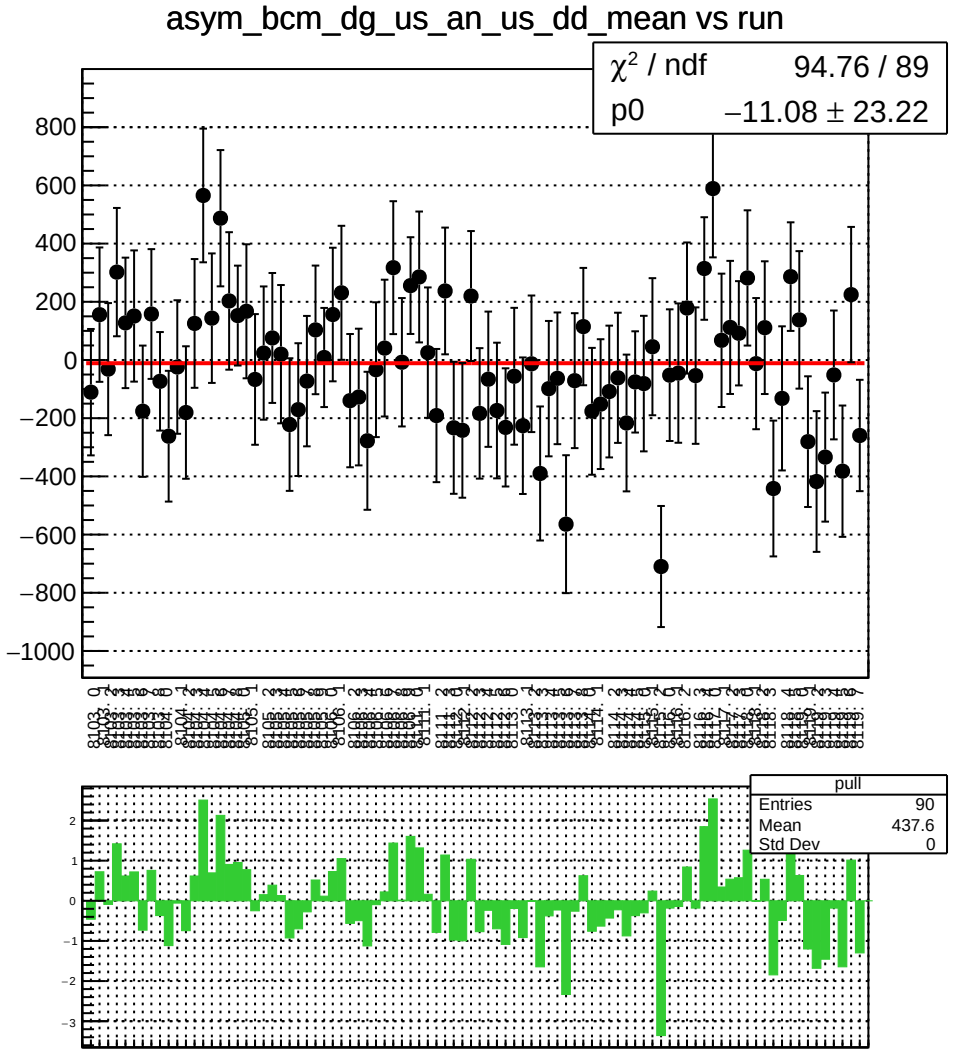

pull1D
Entries 90
Mean 0.0009235
Std Dev 0.8869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

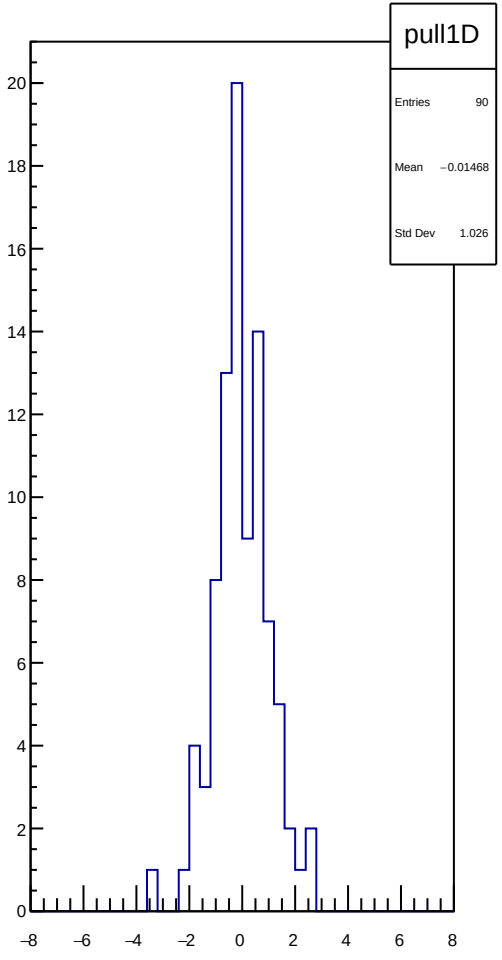

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3729 / 89
p0 29.32 ± 0.02213
34
33
32
31
30
29
28
27
26

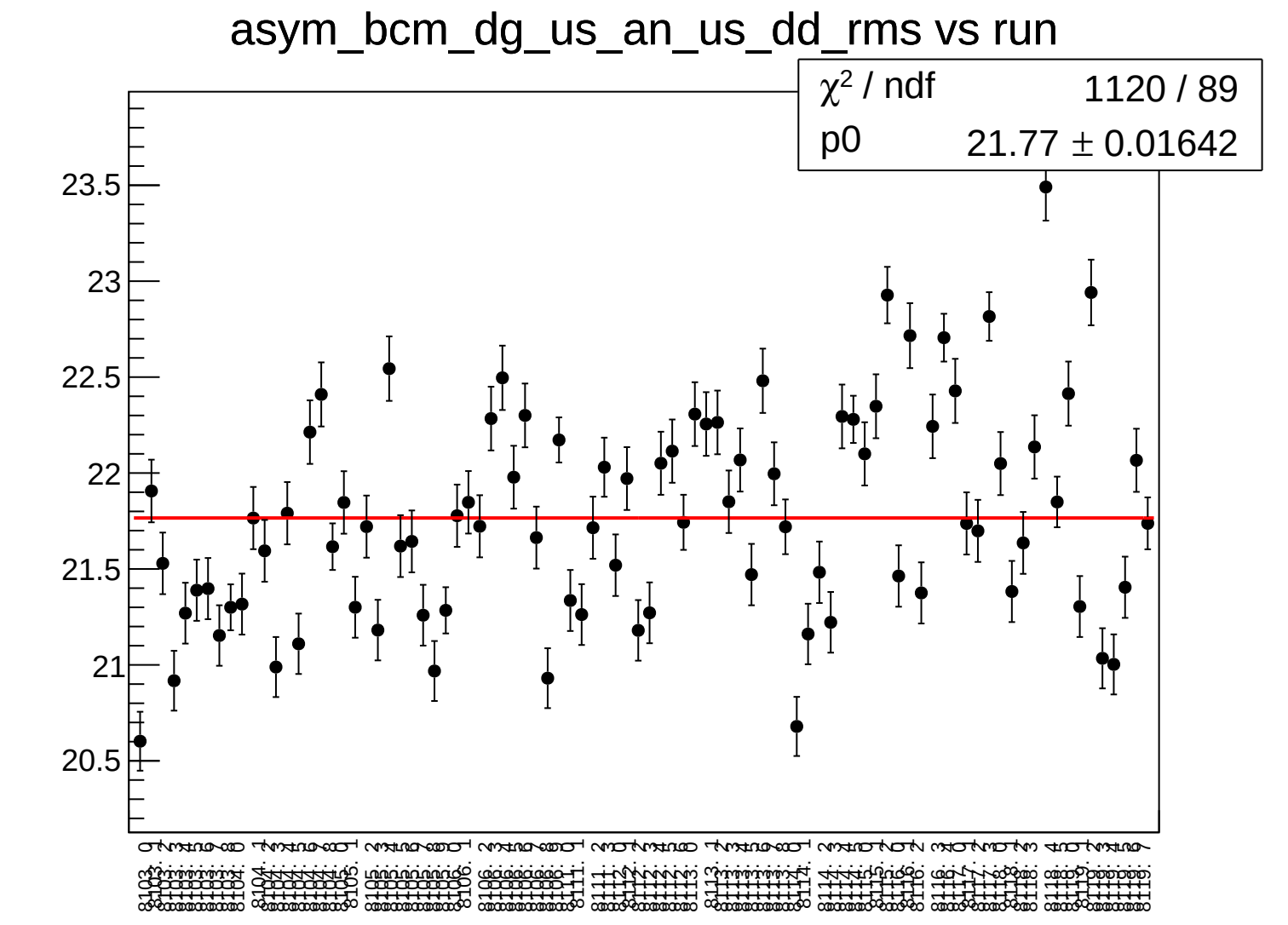

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 28.8 / 89
p0 −318.8 ± 166.5
pull
Entries 90
Mean 1922
Std Dev 0

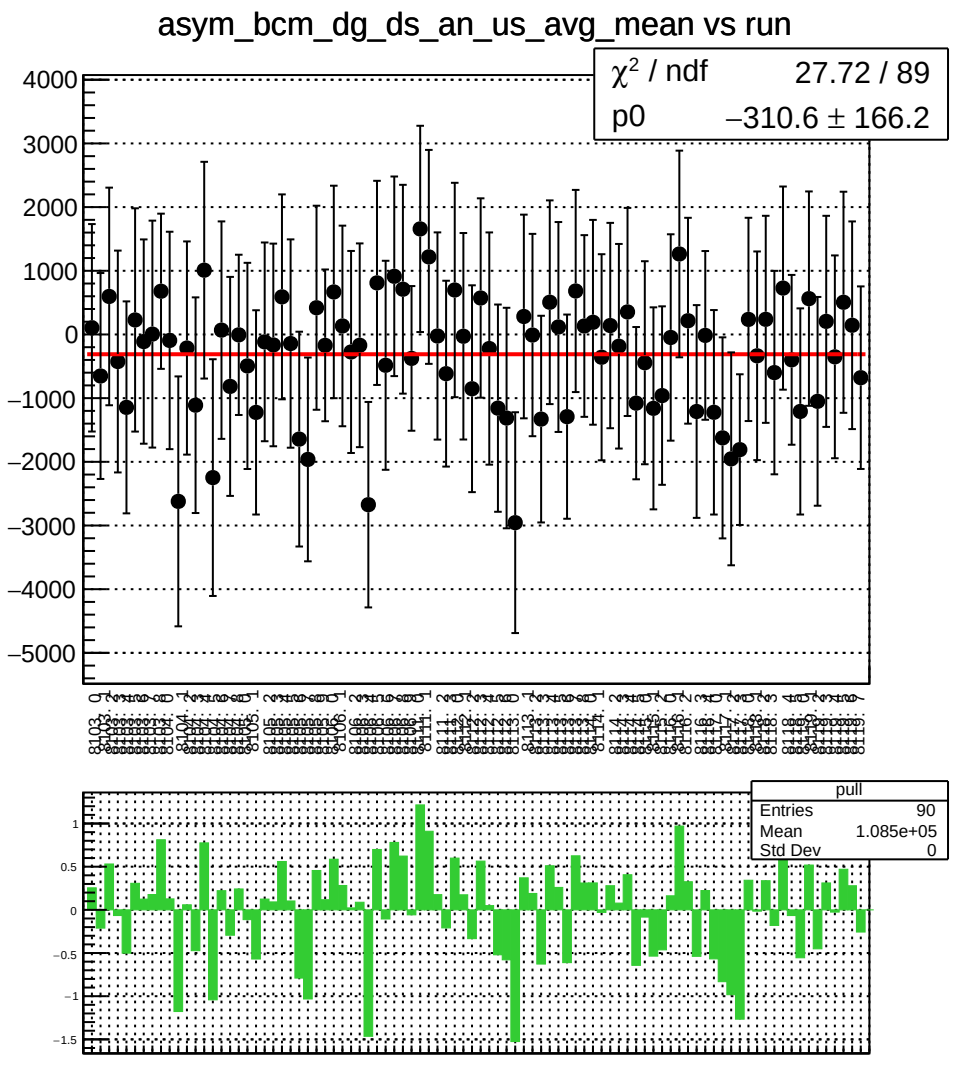

pull1D
Entries 90
Mean −0.0005746
Std Dev 0.5656

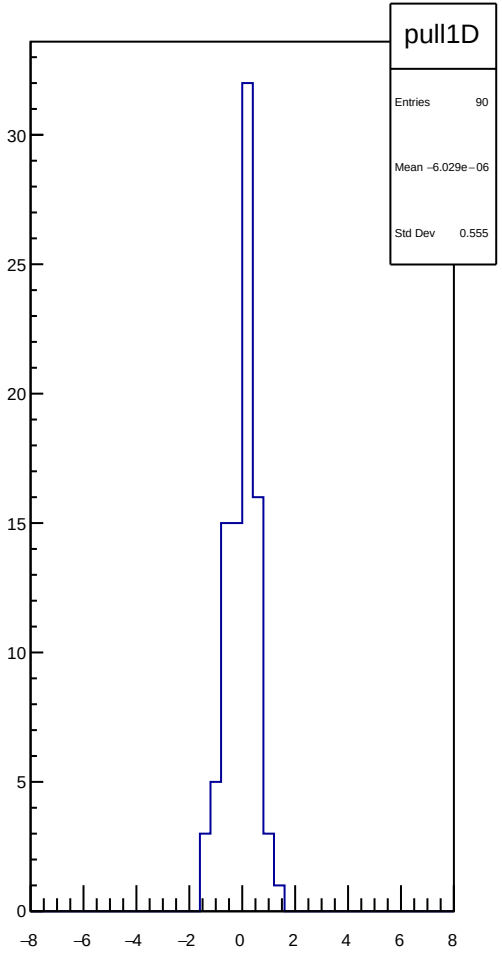

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3132 / 89
p0 156 ± 0.1178
190
185
180
175
170
165
160
155
150
145

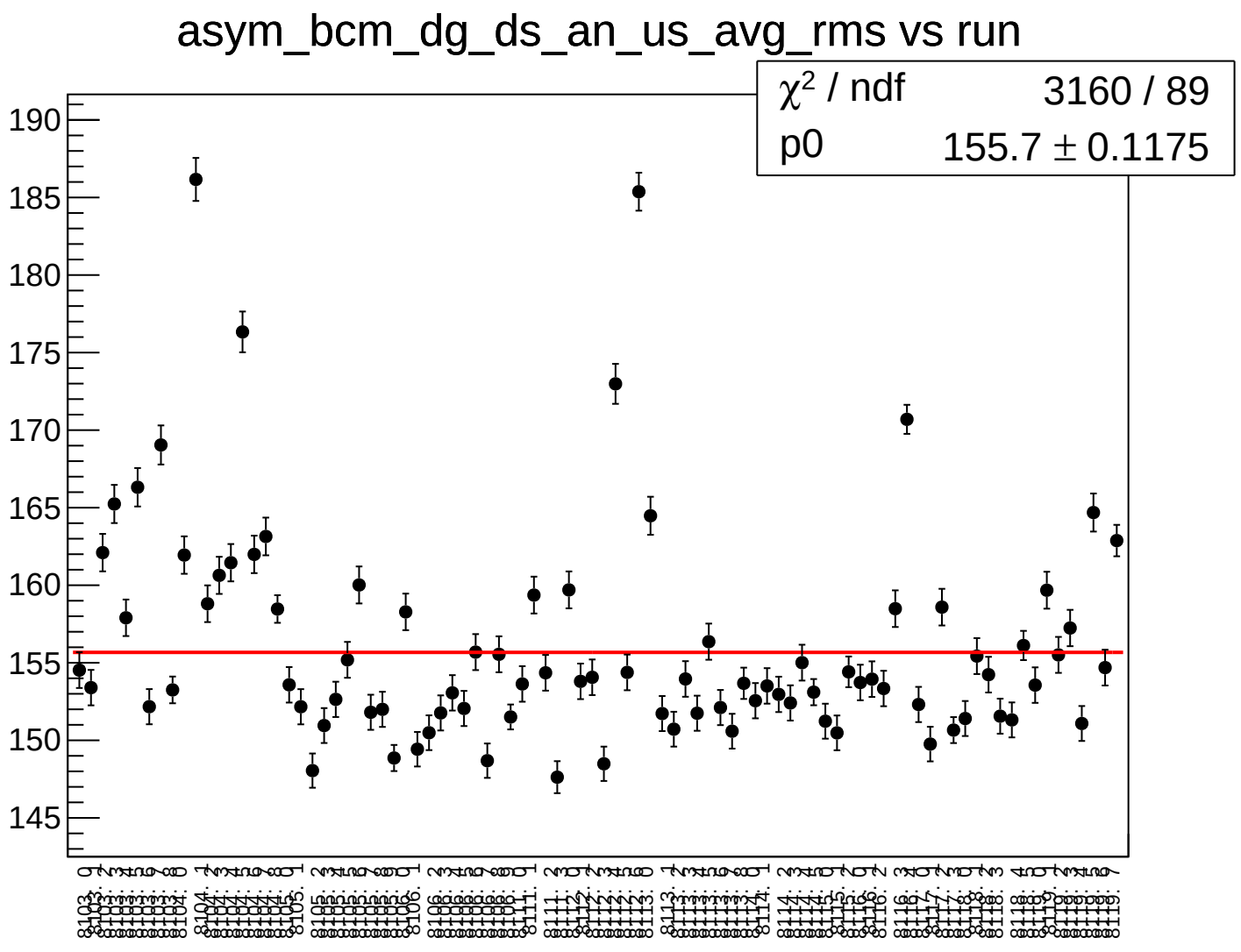

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 94.76 / 89
p0 −11.08 ± 23.22
pull
Entries 90
Mean 437.6
Std Dev 0

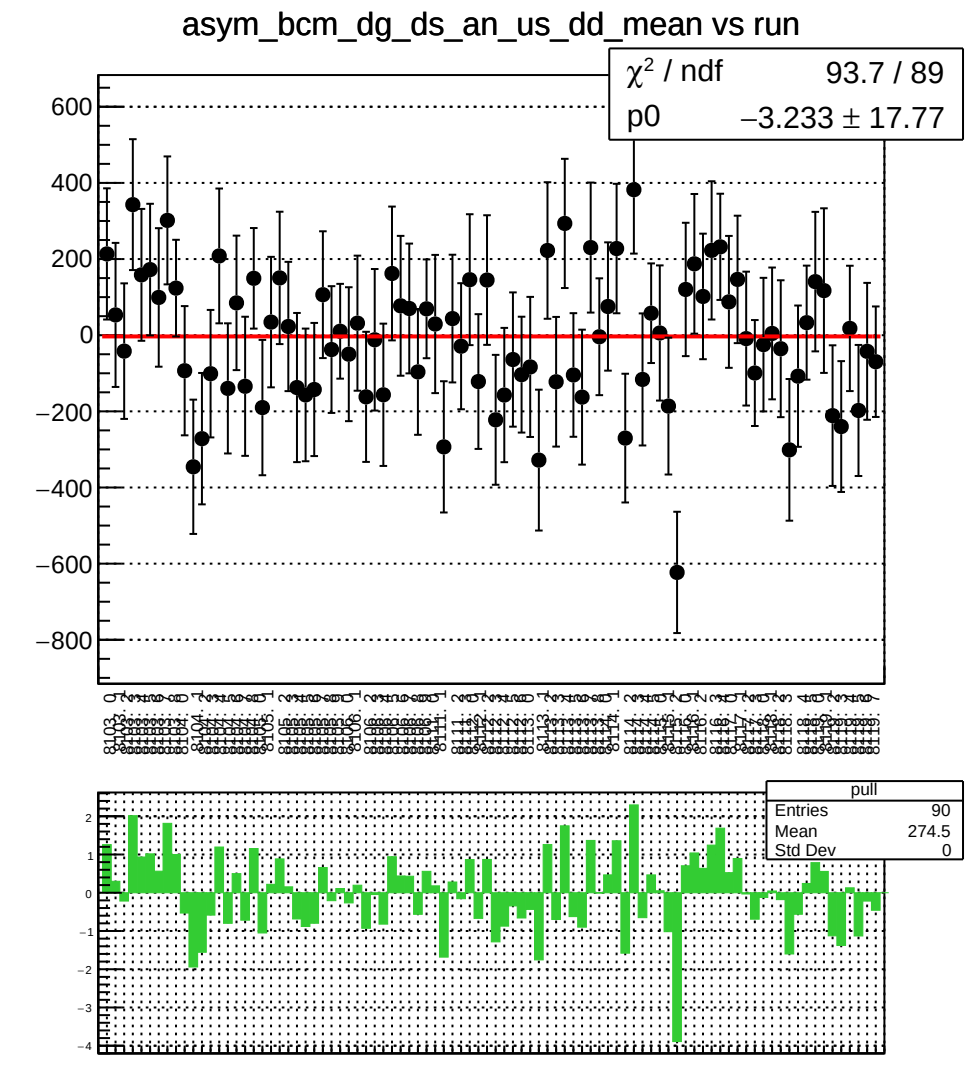

pull1D
Entries 90
Mean −0.01468
Std Dev 1.026

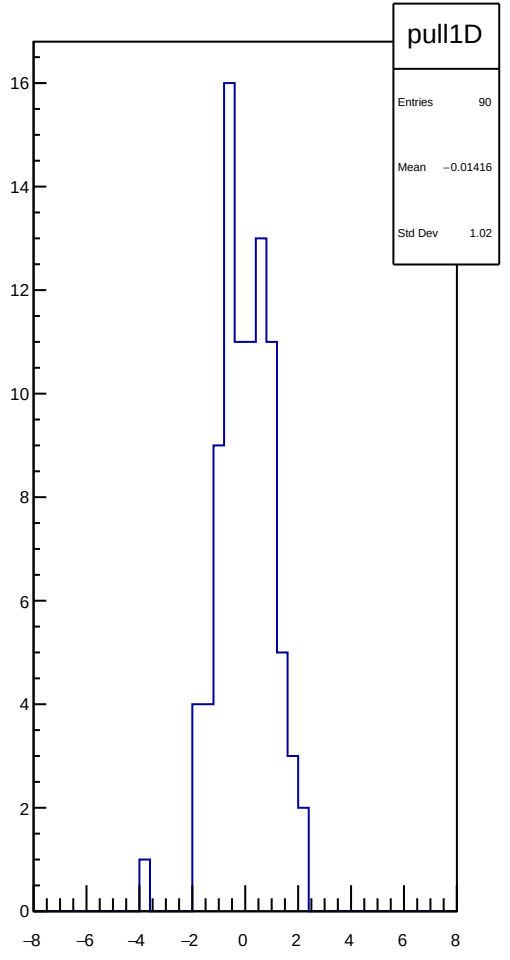

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1120 / 89
p0 21.77 ± 0.01642
23.5
23
22.5
22
21.5
21
20.5

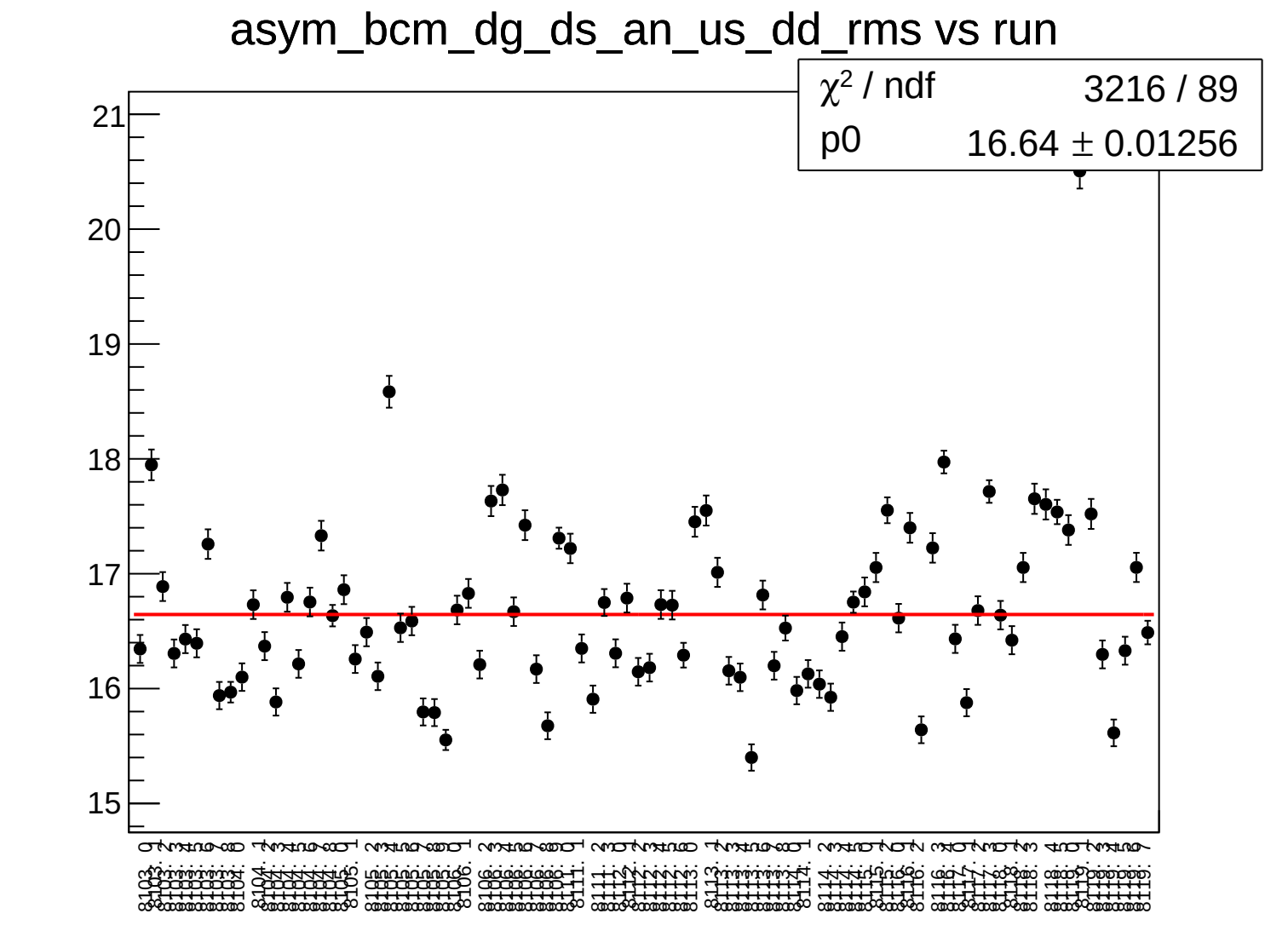

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 27.72 / 89
p0 −310.6 ± 166.2
pull
Entries 90
Mean 1.085e+05
Std Dev 0

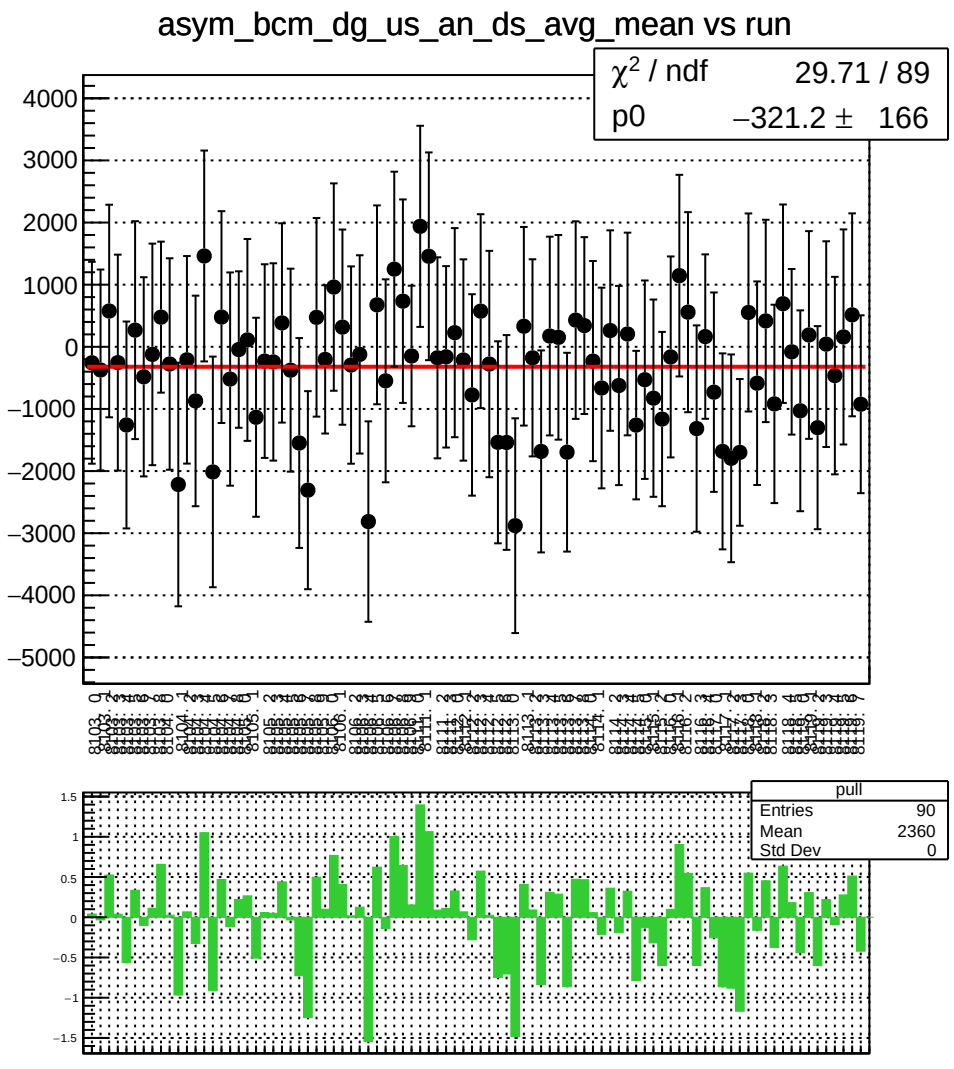

pull1D
Entries 90
Mean −6.029e−06
Std Dev 0.555

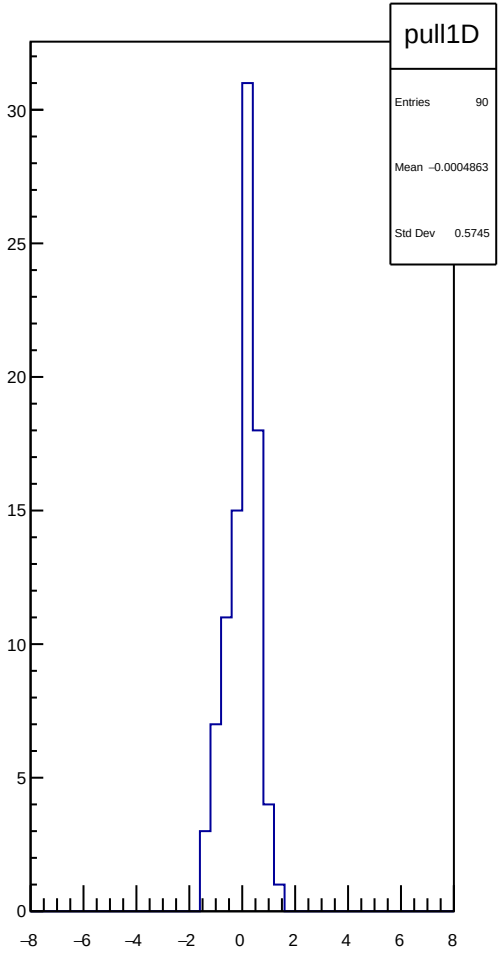

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3160 / 89
p0 155.7 ± 0.1175
190
185
180
175
170
165
160
155
150
145

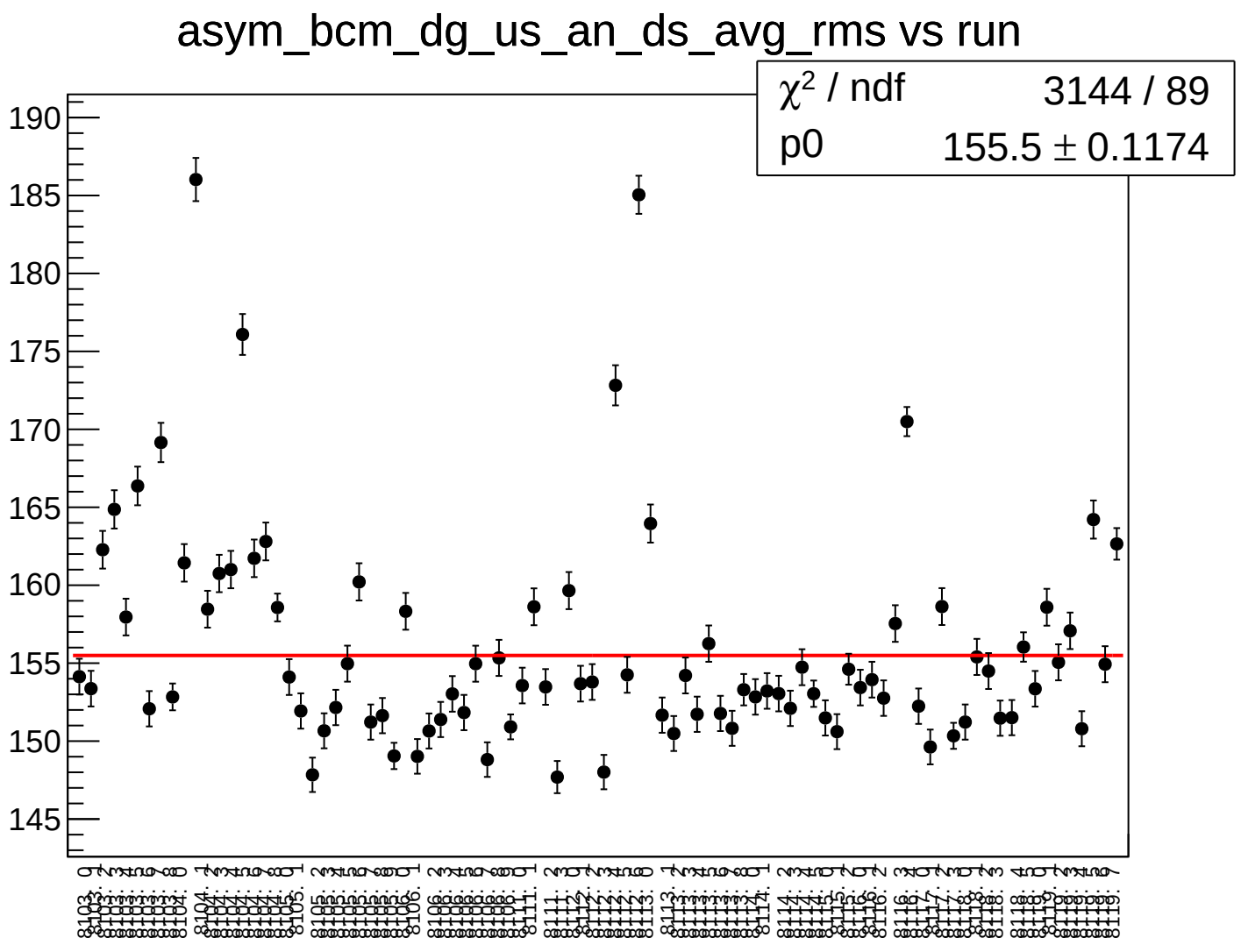

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 93.7 / 89
p0 −3.233 ± 17.77
600
400
200
0
−200
−400
−600
−800
pull
Entries 90
Mean 274.5
Std Dev 0
2
1
0
−1
−2
−3
−4

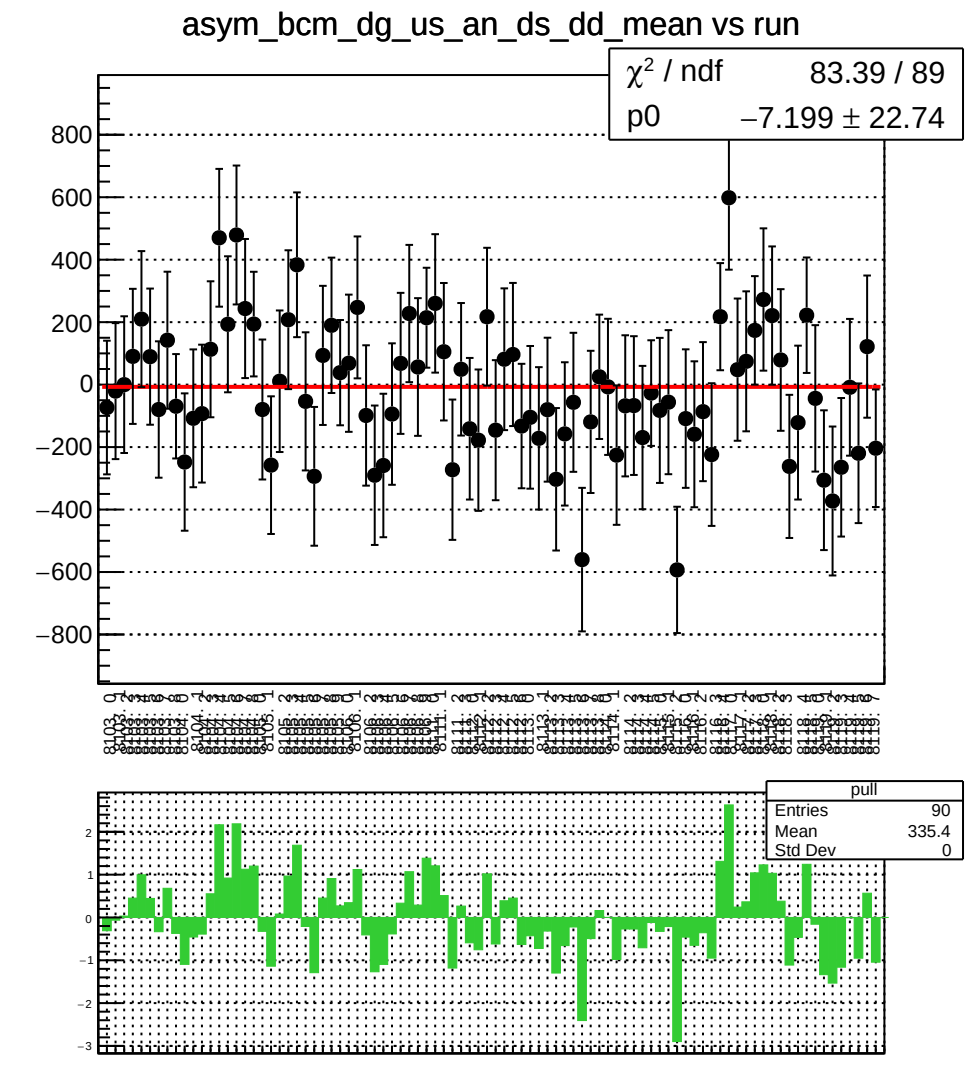

pull1D
Entries 90
Mean −0.01416
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

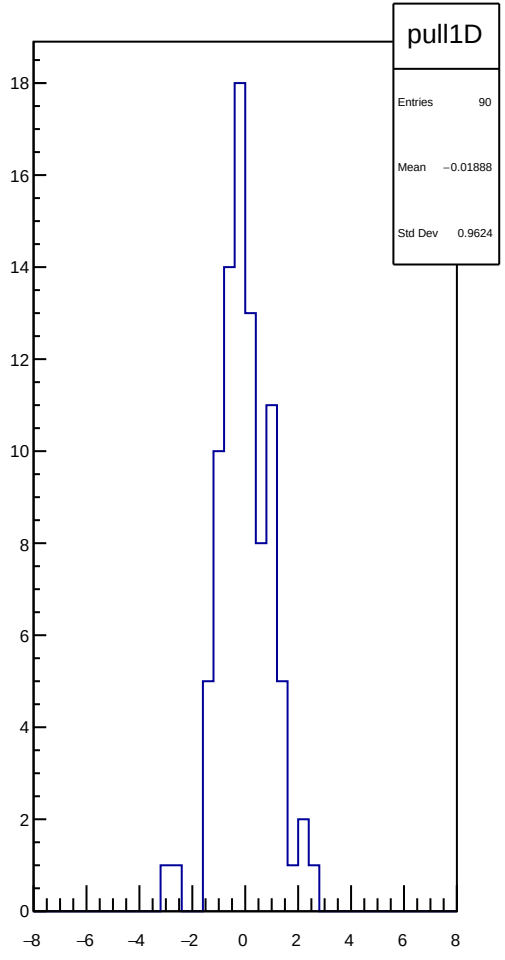

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3216 / 89
p0 16.64 ± 0.01256
21
20
19
18
17
16
15

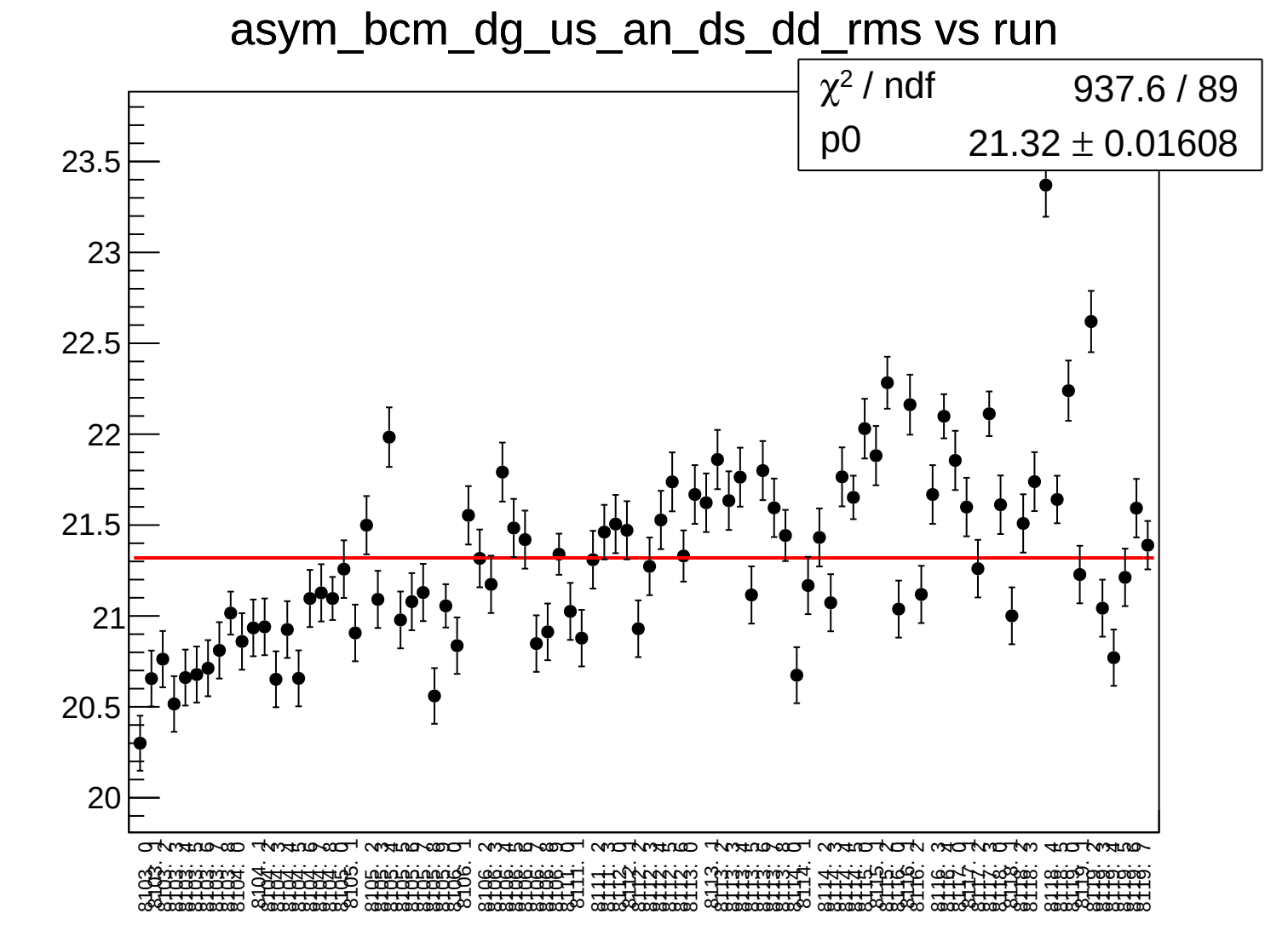

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 29.71 / 89
p0 −321.2 ± 166
pull
Entries 90
Mean 2360
Std Dev 0

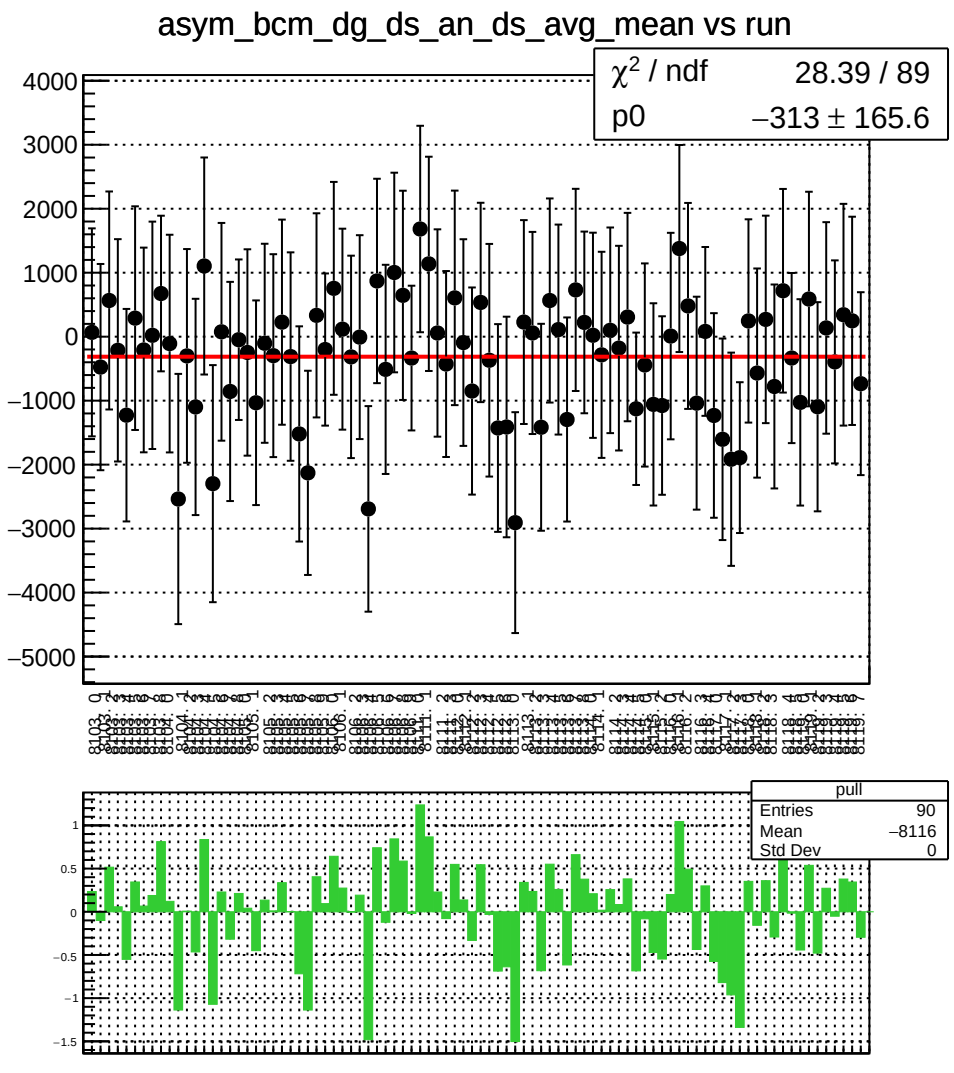

pull1D
Entries 90
Mean −0.0004863
Std Dev 0.5745

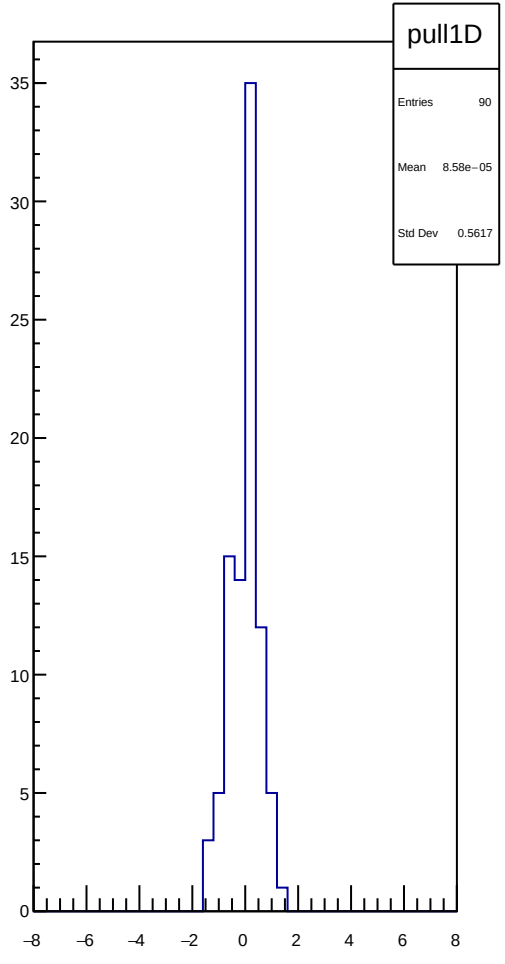

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3144 / 89
p0 155.5 ± 0.1174
190
185
180
175
170
165
160
155
150
145

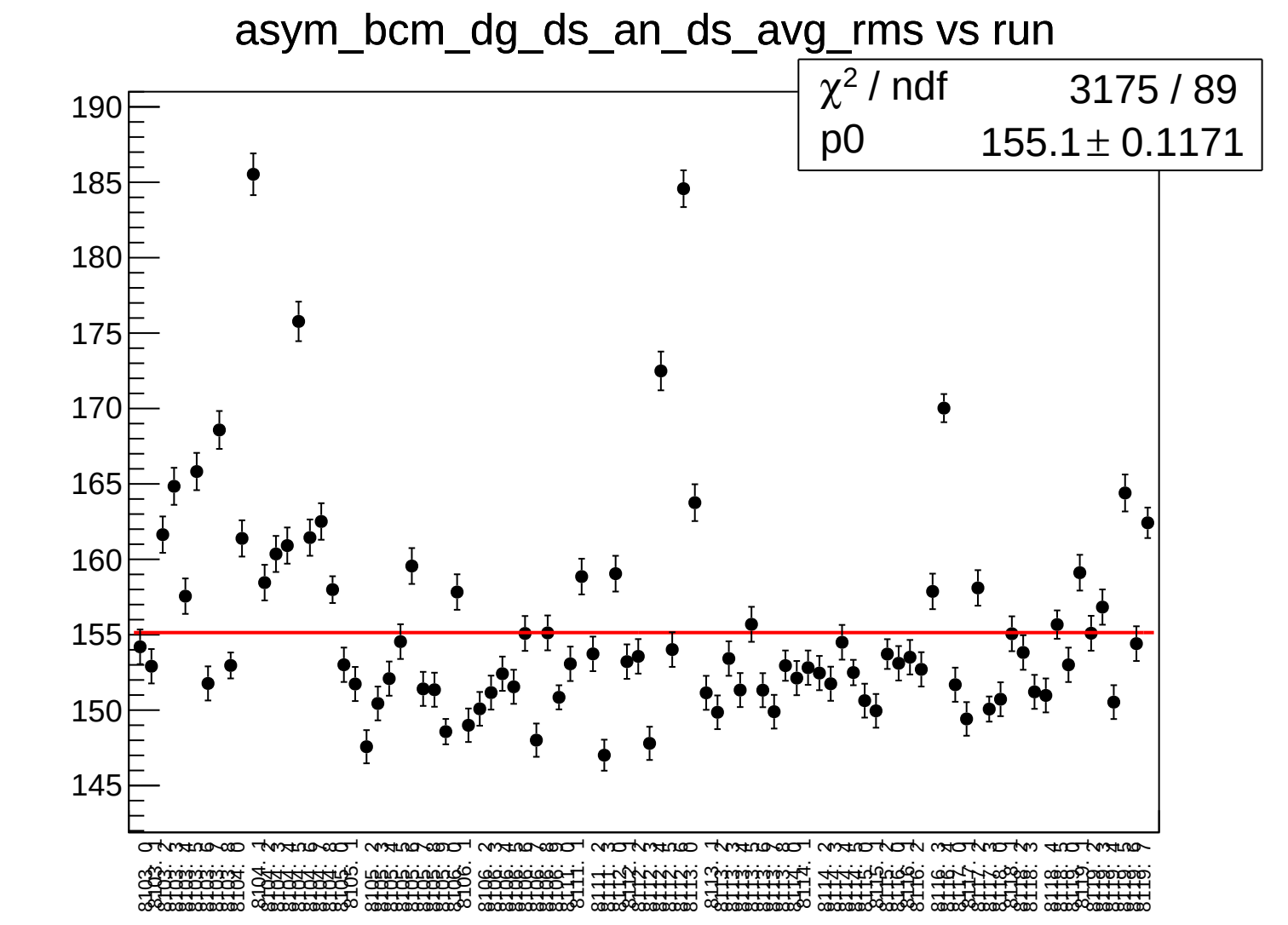

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 83.39 / 89
p0 −7.199 ± 22.74
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 90
Mean 335.4
Std Dev 0
2
1
0
−1
−2
−3

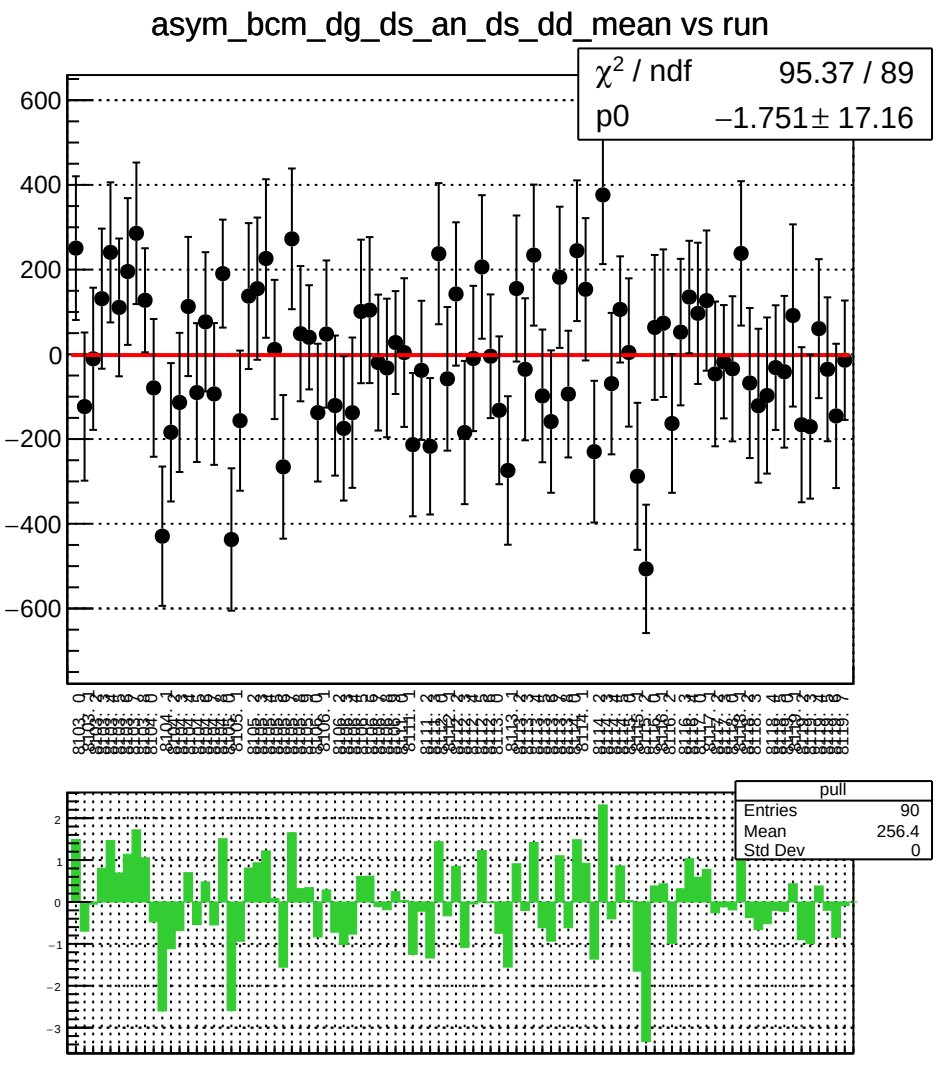

pull1D
Entries 90
Mean −0.01888
Std Dev 0.9624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

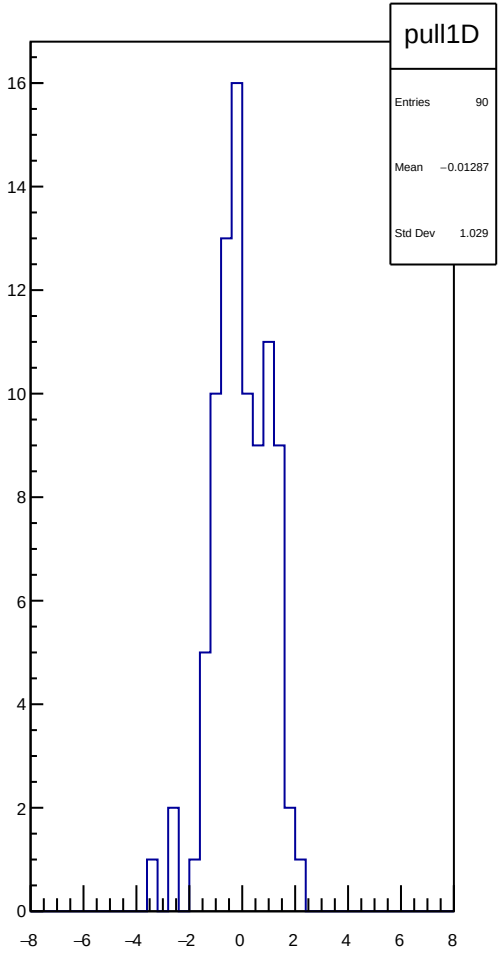

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 937.6 / 89
p0 21.32 ± 0.01608
23.5
23
22.5
22
21.5
21
20.5
20

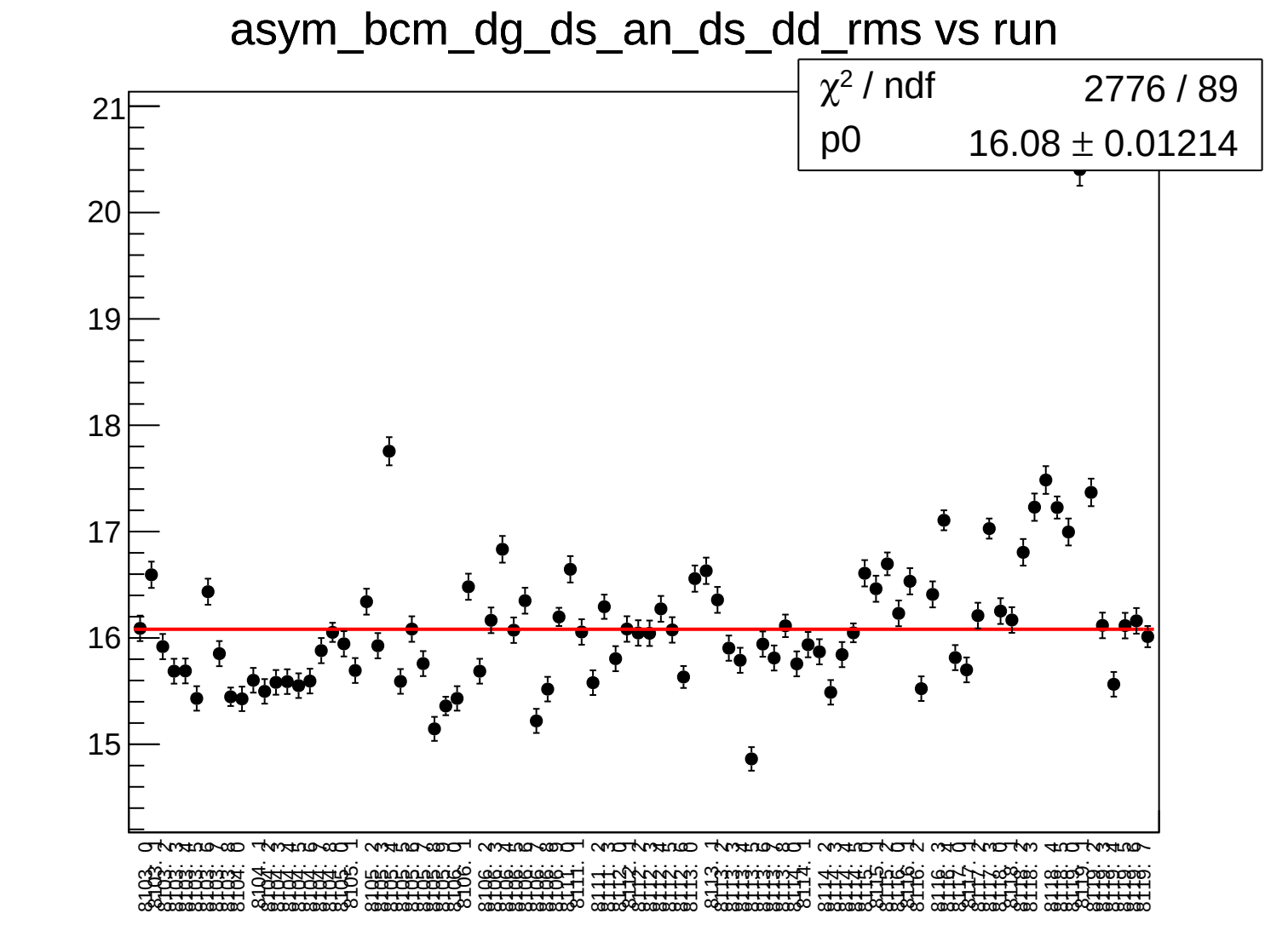

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 28.39 / 89
p0 −313 ± 165.6
pull
Entries 90
Mean −8116
Std Dev 0

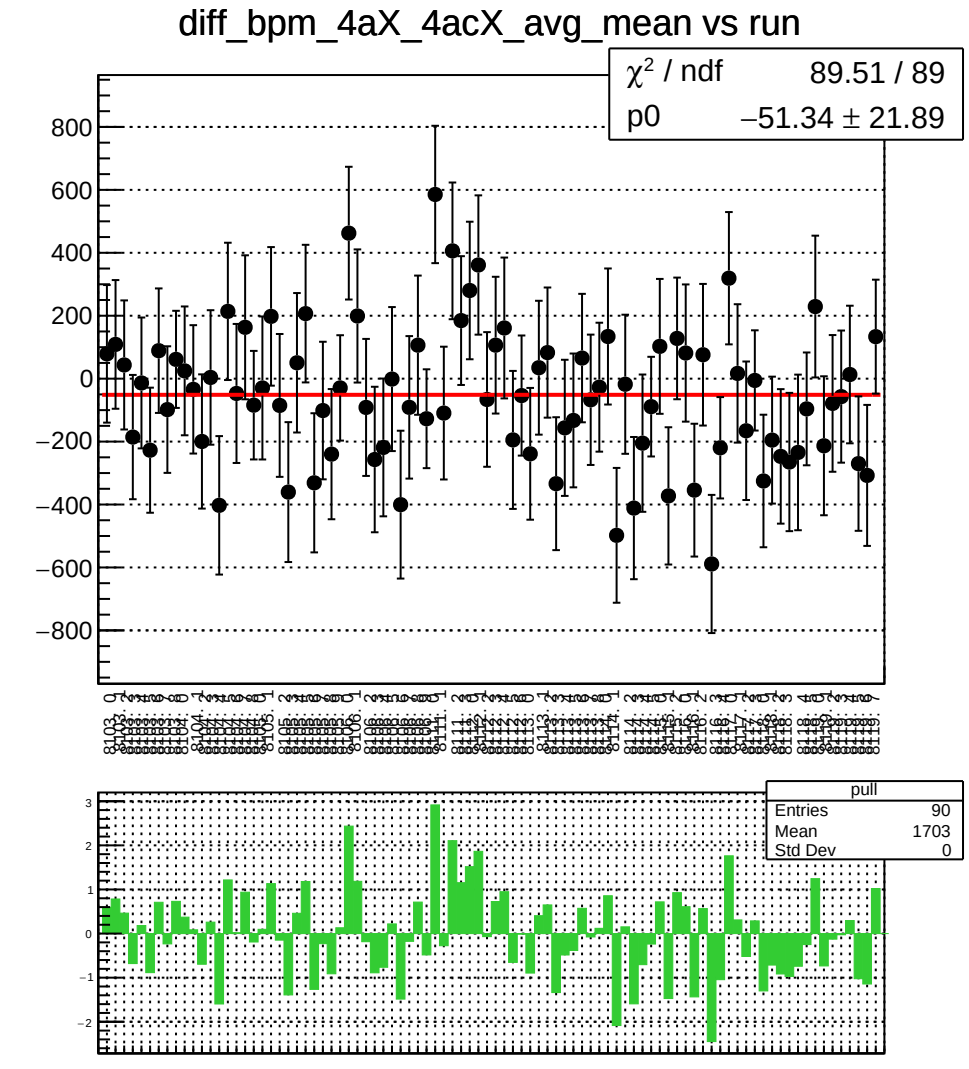

pull1D
Entries 90
Mean 8.58e−05
Std Dev 0.5617

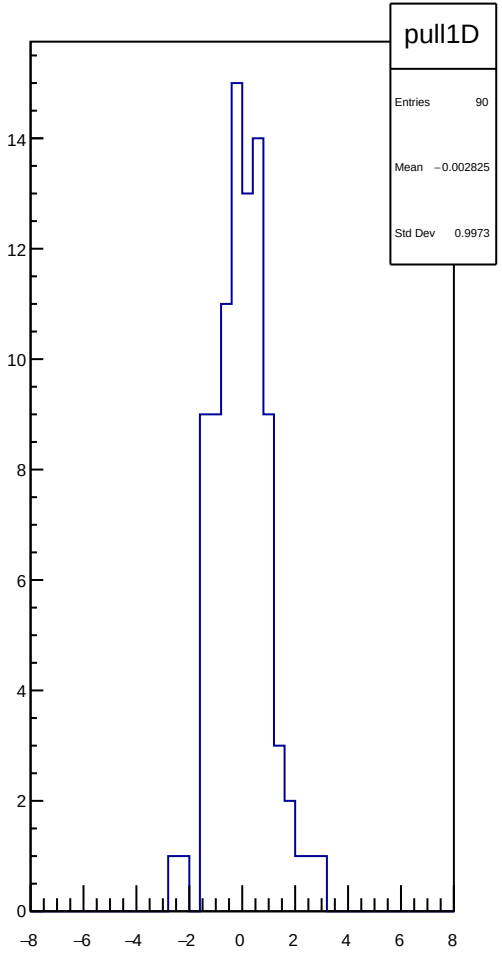

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3175 / 89
p0 155.1 ± 0.1171
190
185
180
175
170
165
160
155
150
145

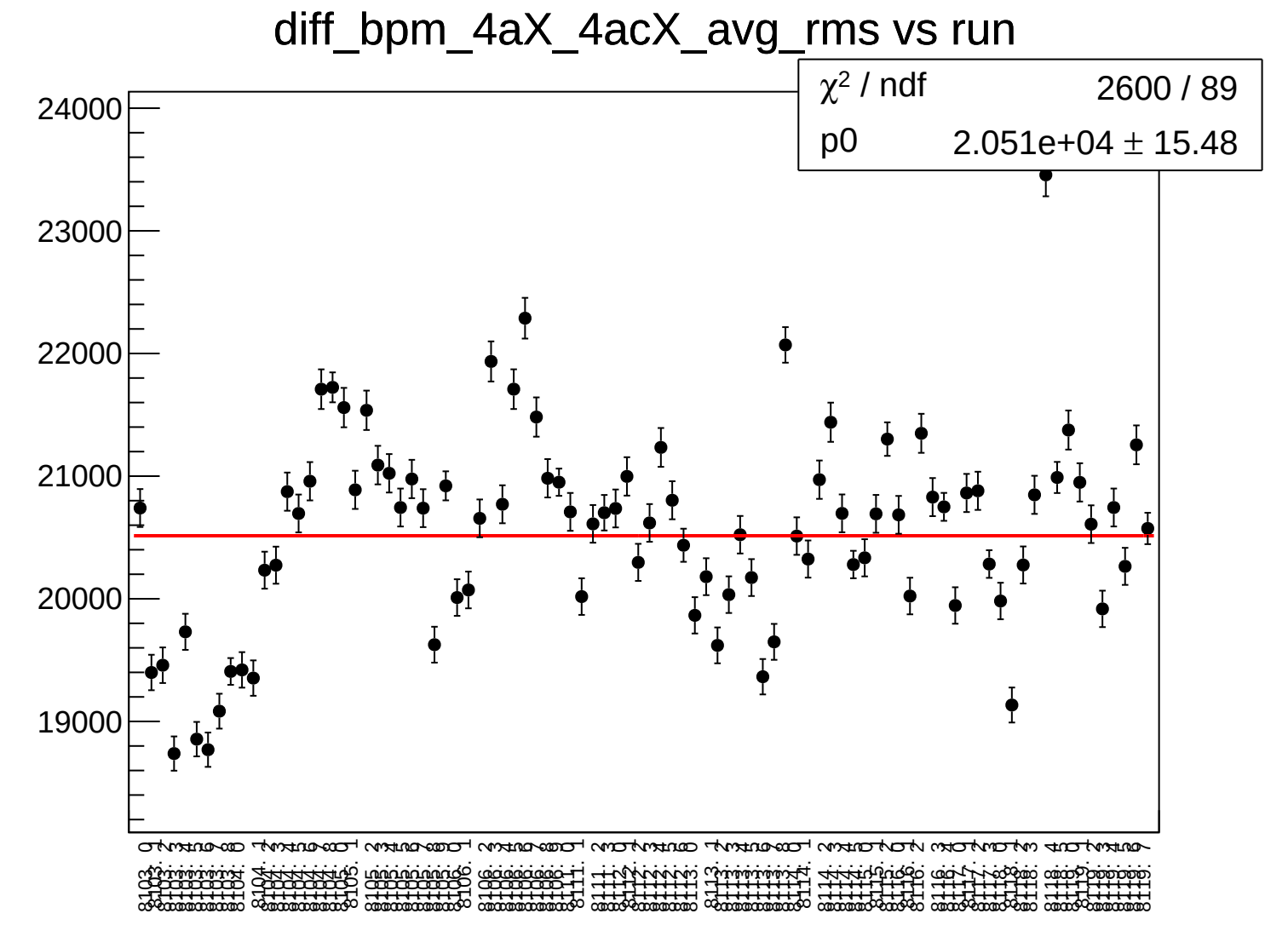

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 95.37 / 89
p0 −1.751 ± 17.16
pull
Entries 90
Mean 256.4
Std Dev 0

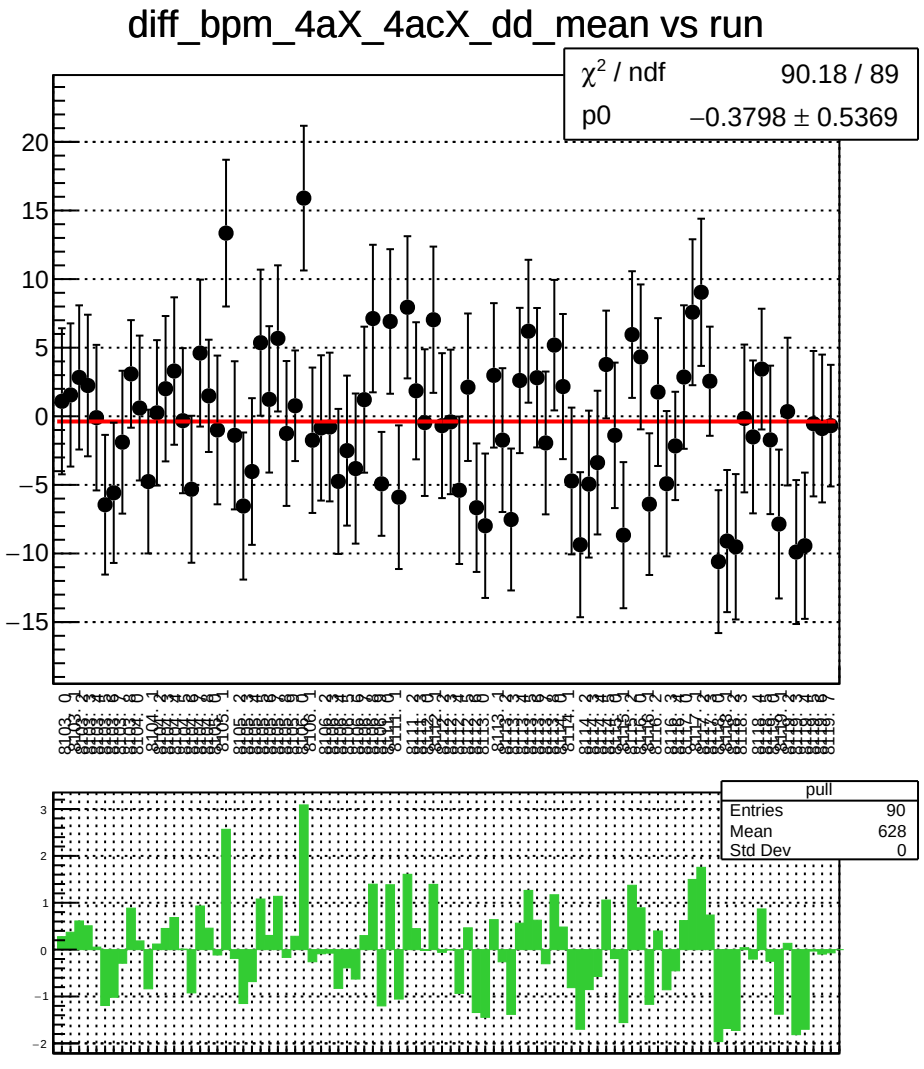

pull1D
Entries 90
Mean −0.01287
Std Dev 1.029

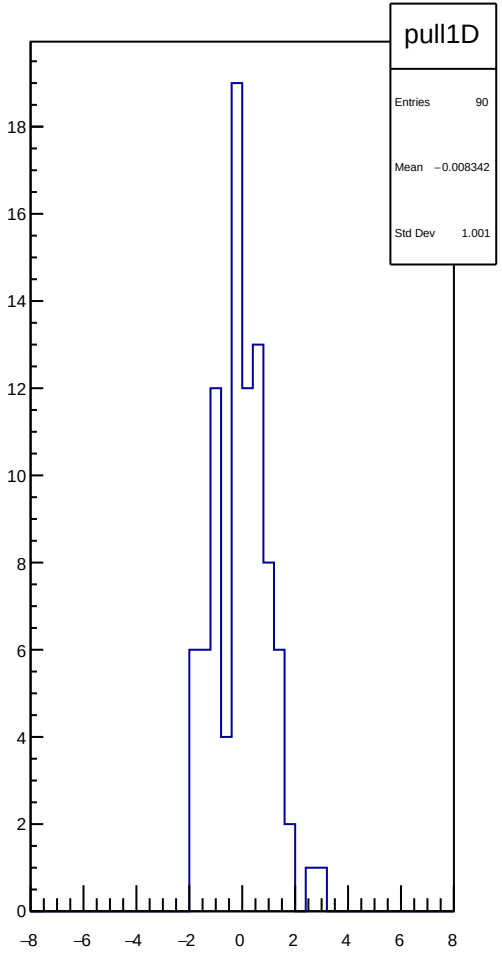

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2776 / 89
p0 16.08 ± 0.01214
21
20
19
18
17
16
15

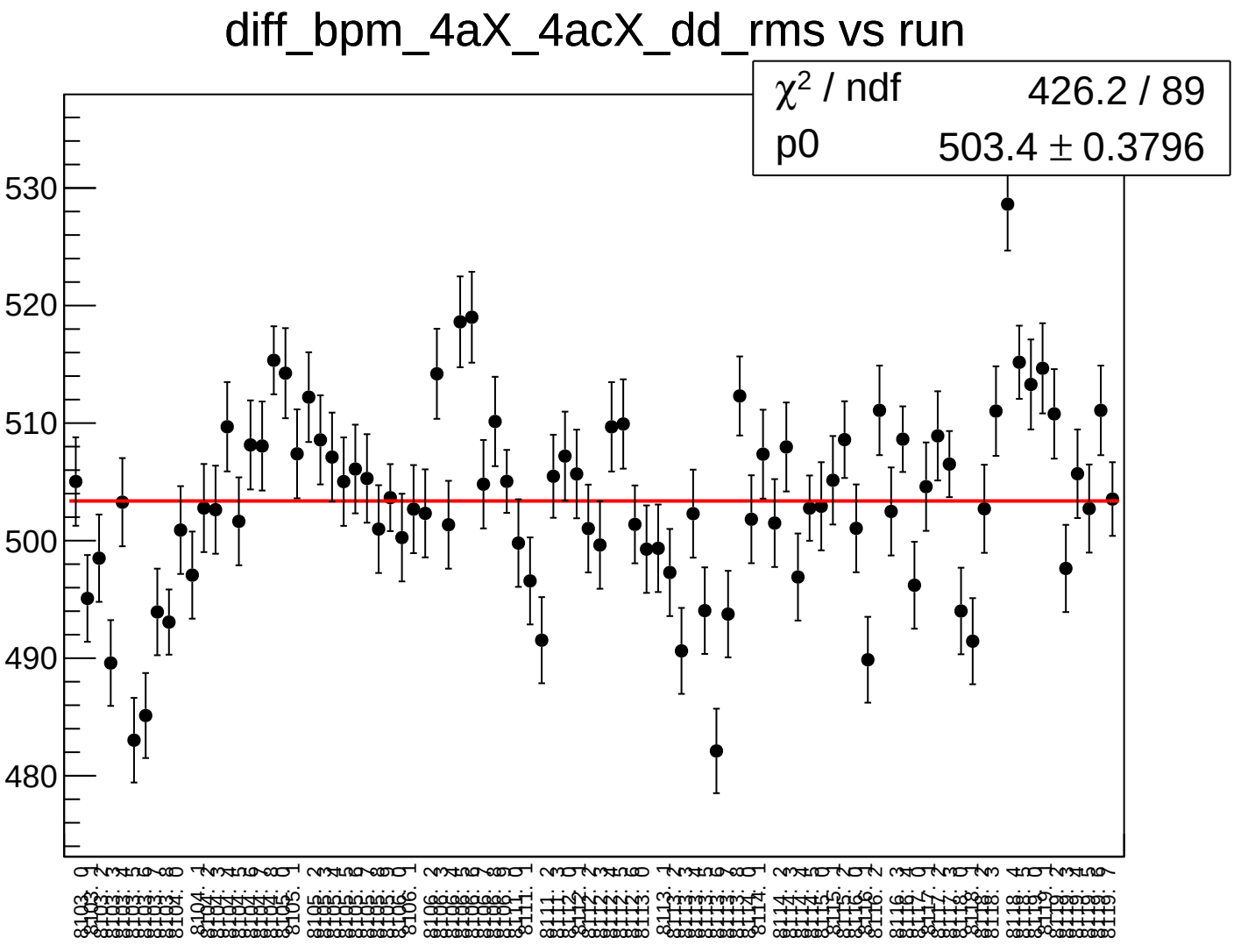

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 89.51 / 89
p0 −51.34 ± 21.89
pull
Entries 90
Mean 1703
Std Dev 0

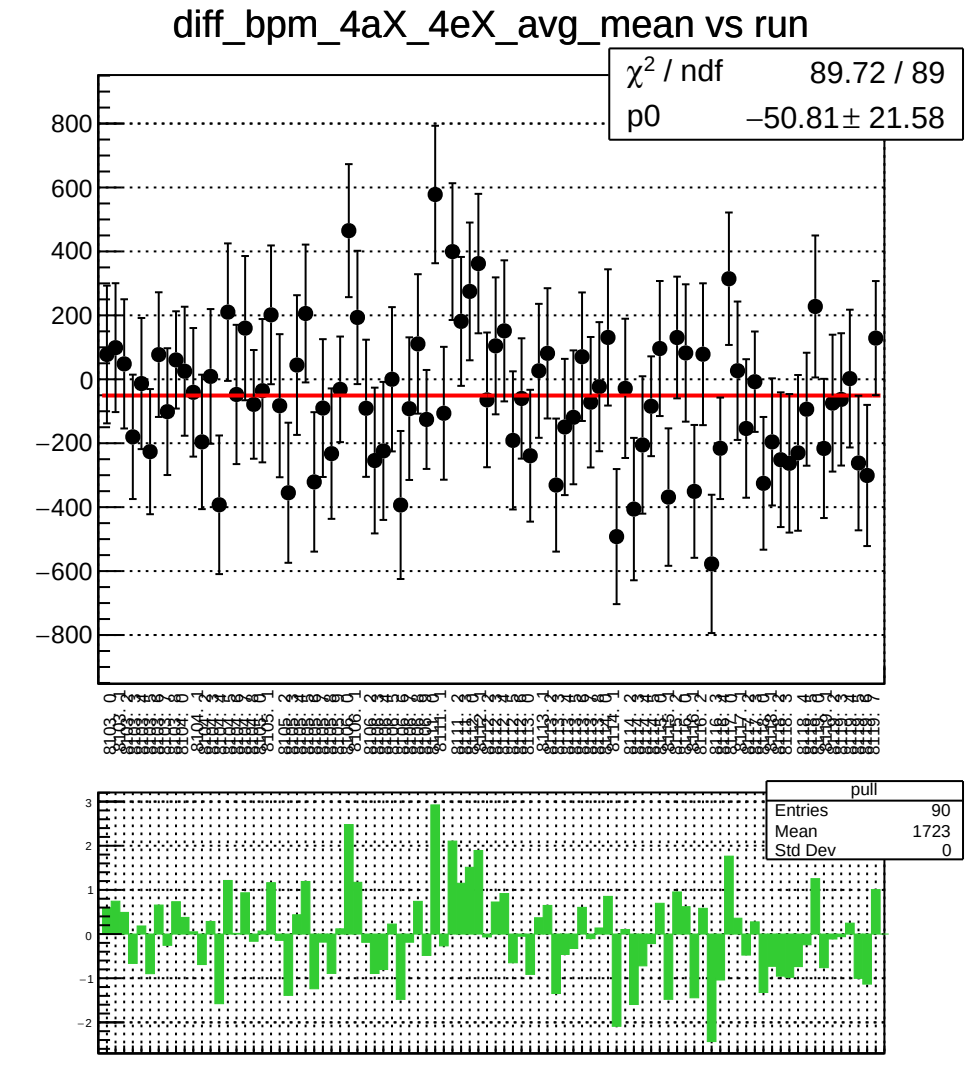

pull1D
Entries 90
Mean −0.002825
Std Dev 0.9973

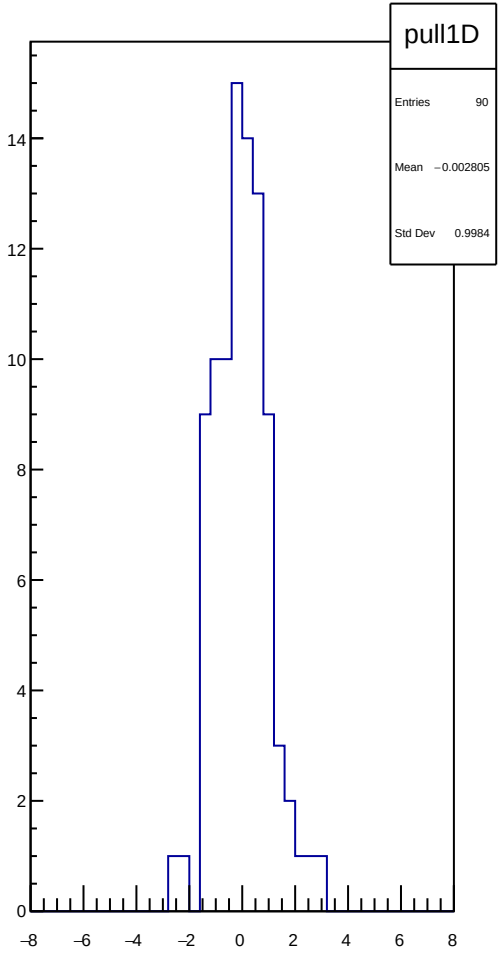

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2600 / 89
p0 2.051e+04 ± 15.48
24000
23000
22000
21000
20000
19000

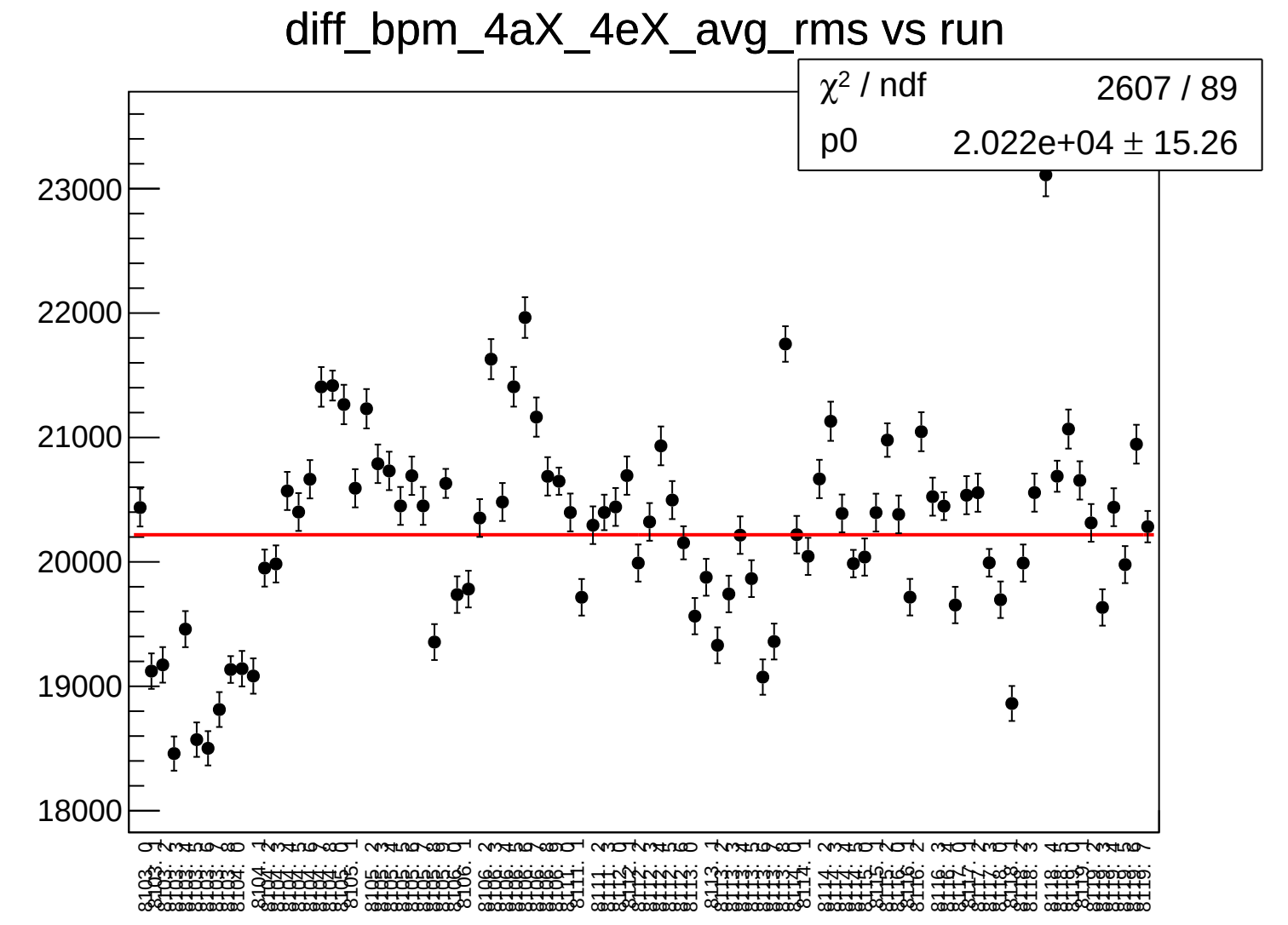

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 90.18 / 89
p0 −0.3798 ± 0.5369
pull
Entries 90
Mean 628
Std Dev 0

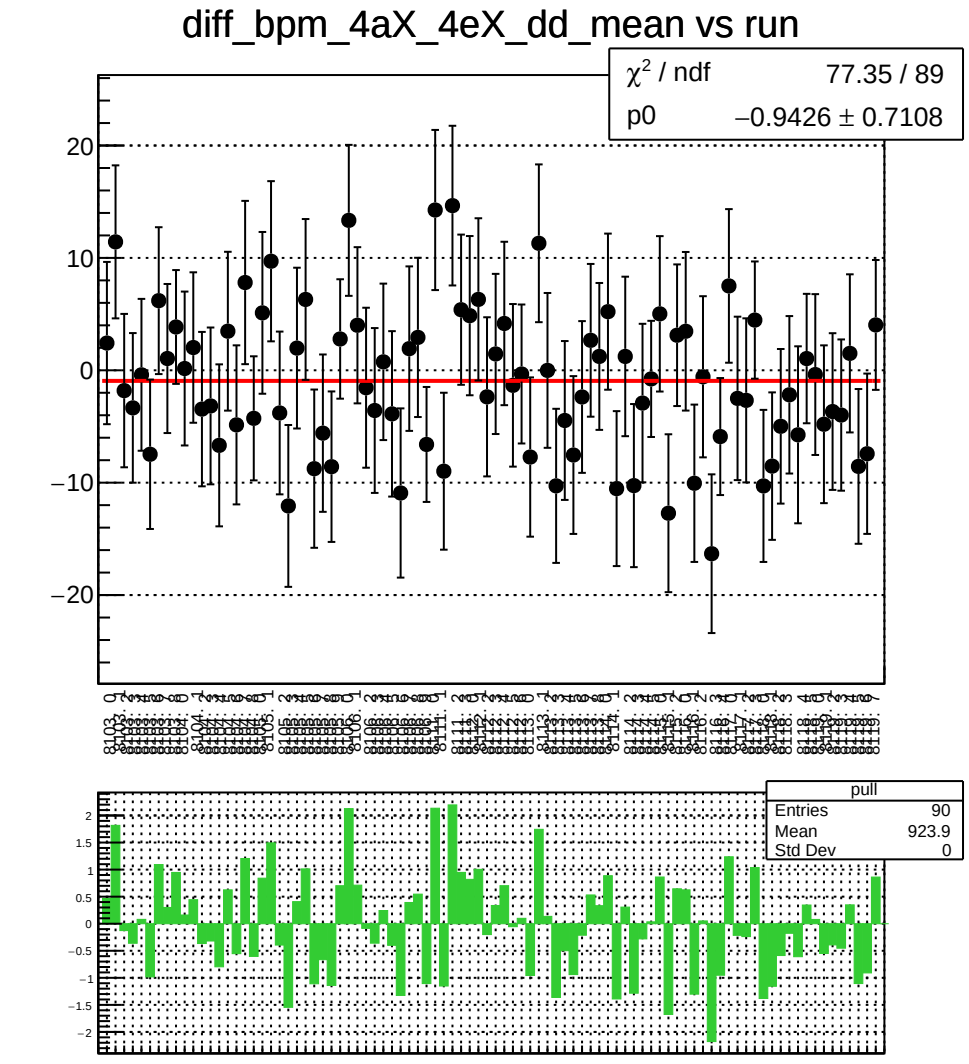

pull1D
Entries 90
Mean −0.008342
Std Dev 1.001

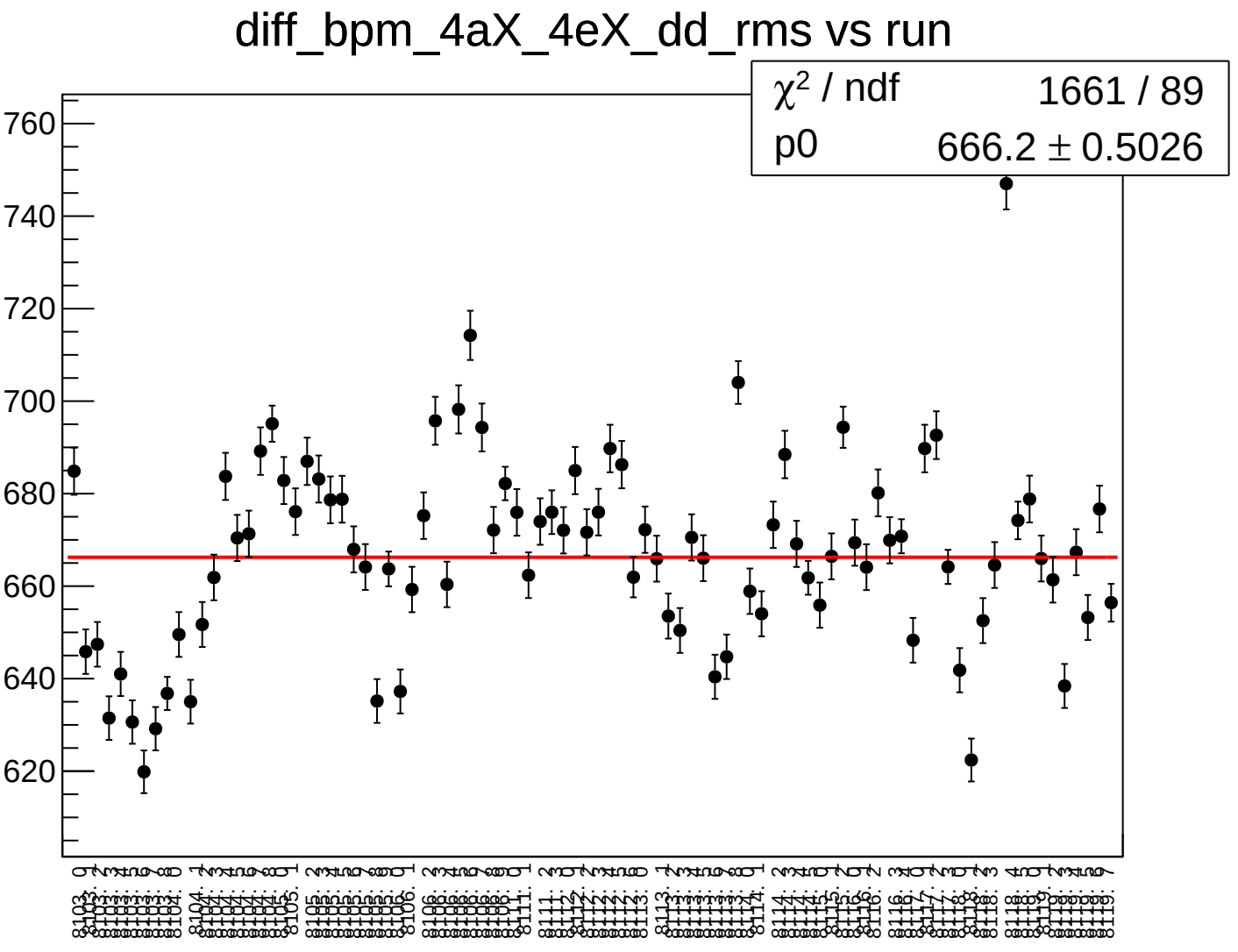

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 426.2 / 89
p0 503.4 ± 0.3796
530
520
510
500
490
480

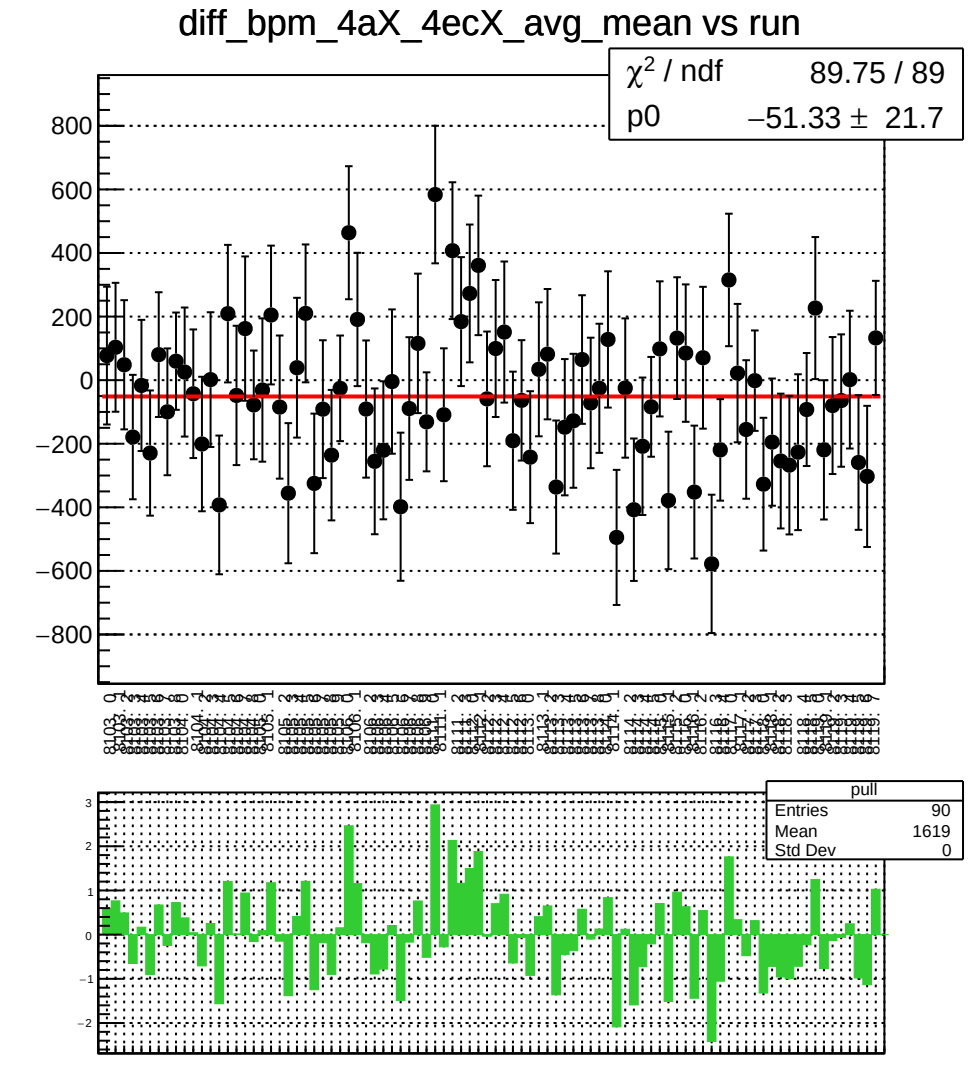

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 89.72 / 89
p0 −50.81 ± 21.58
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 90
Mean 1723
Std Dev 0
3
2
1
0
−1
−2

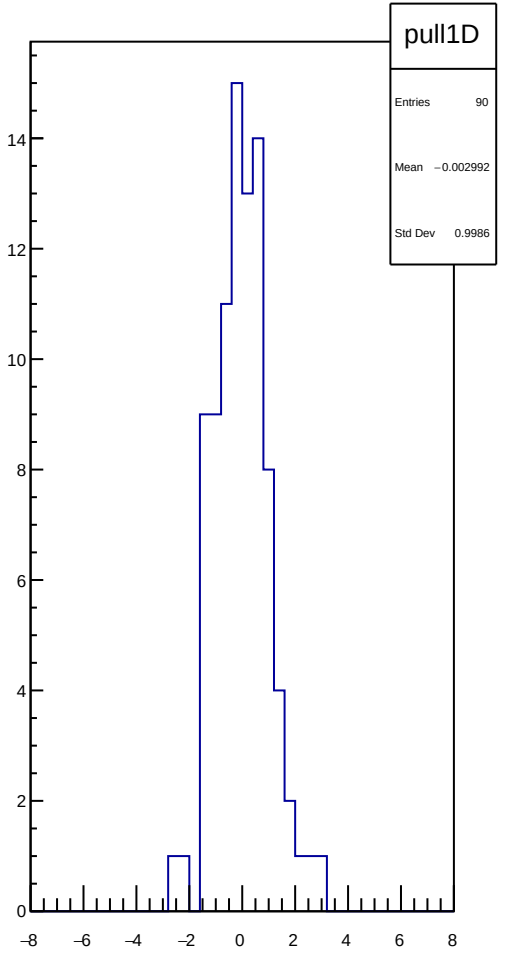

pull1D
Entries 90
Mean −0.002805
Std Dev 0.9984
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

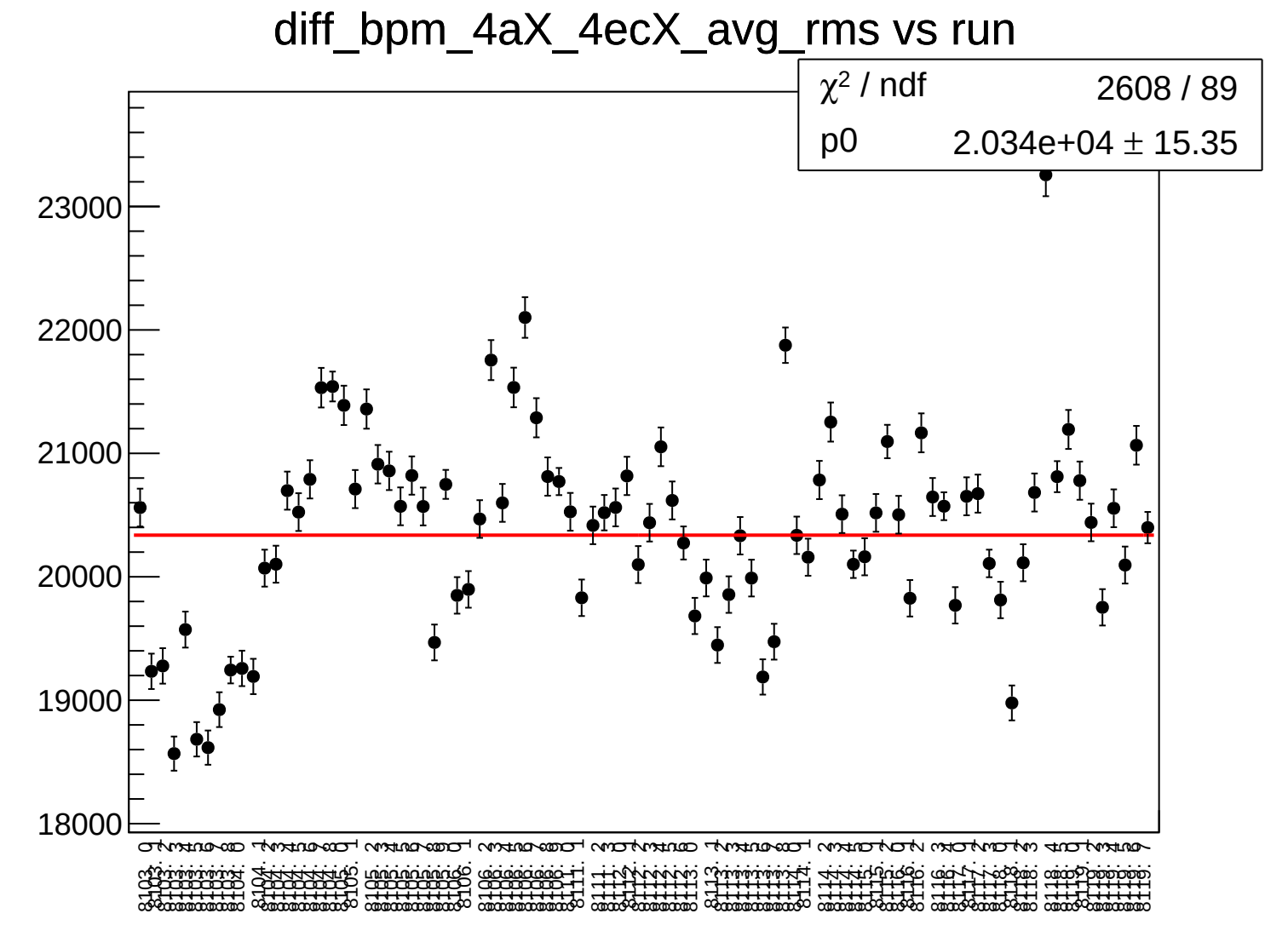

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2607 / 89
p0 2.022e+04 ± 15.26
23000
22000
21000
20000
19000
18000

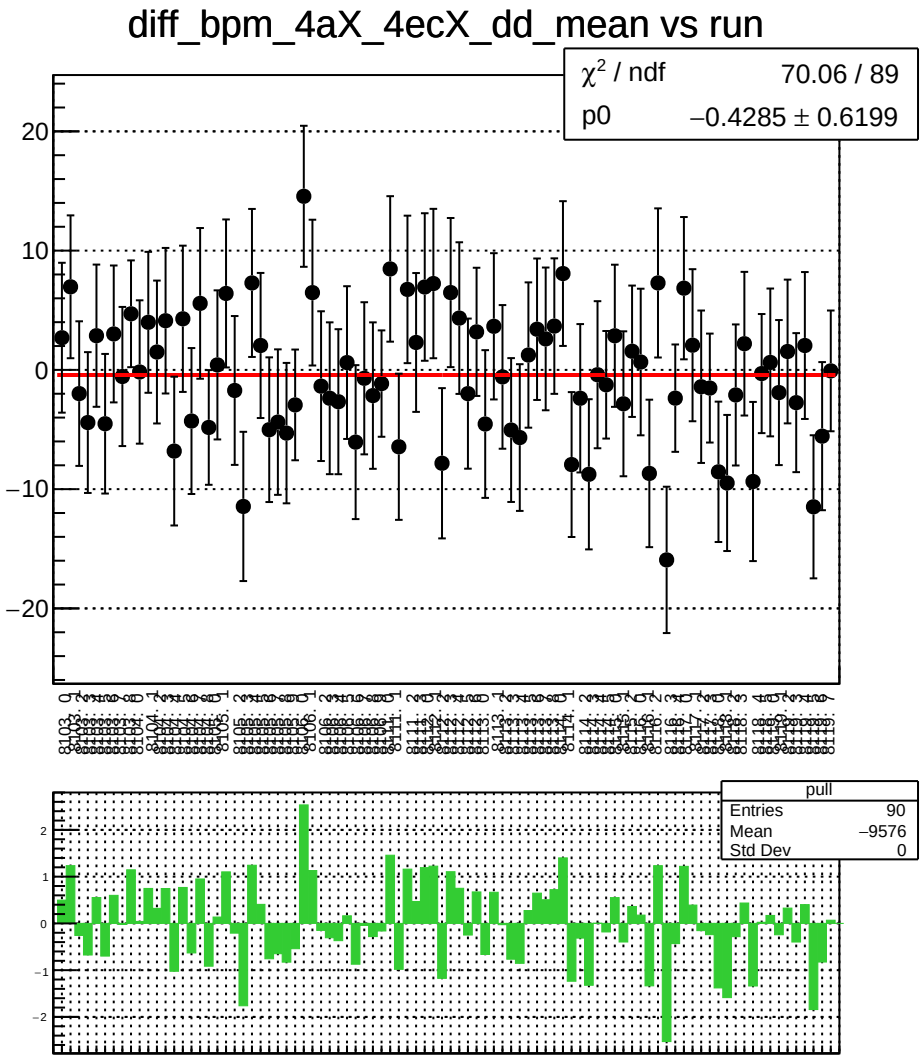

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 77.35 / 89
p0 −0.9426 ± 0.7108
pull
Entries 90
Mean 923.9
Std Dev 0
pull1D
Entries 90
Mean −0.005823
Std Dev 0.9271

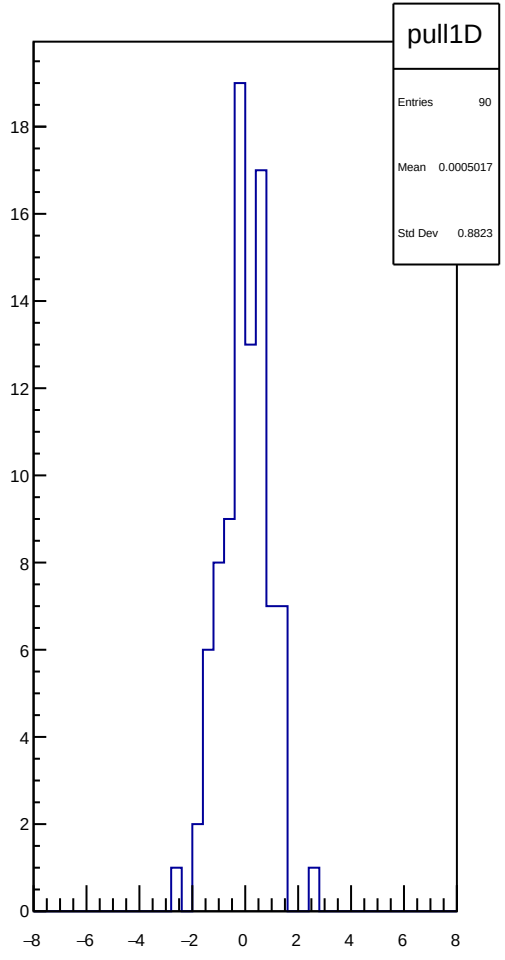

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1661 / 89
p0 666.2 ± 0.5026
760
740
720
700
680
660
640
620

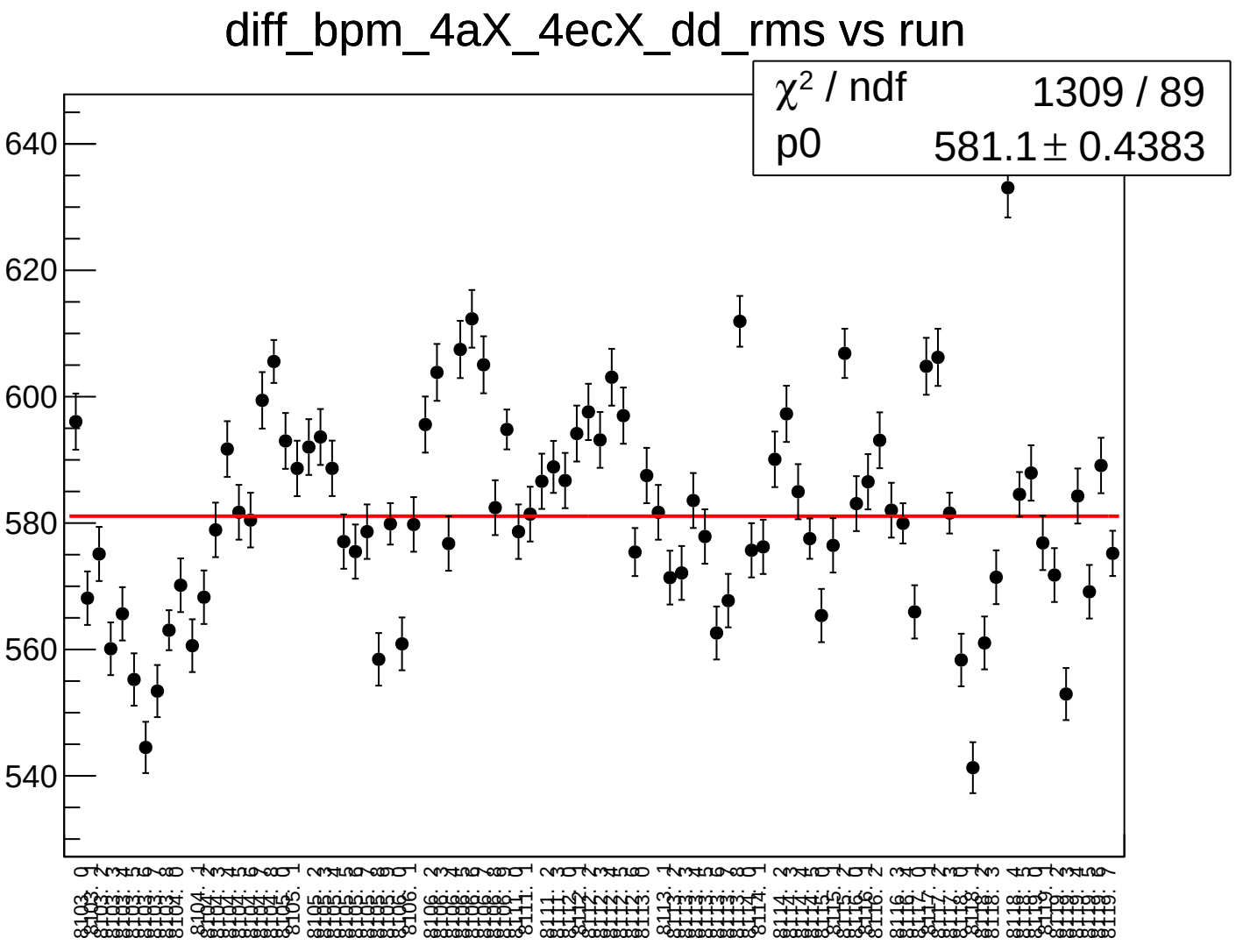

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 89.75 / 89
p0 −51.33 ± 21.7
pull
Entries 90
Mean 1619
Std Dev 0

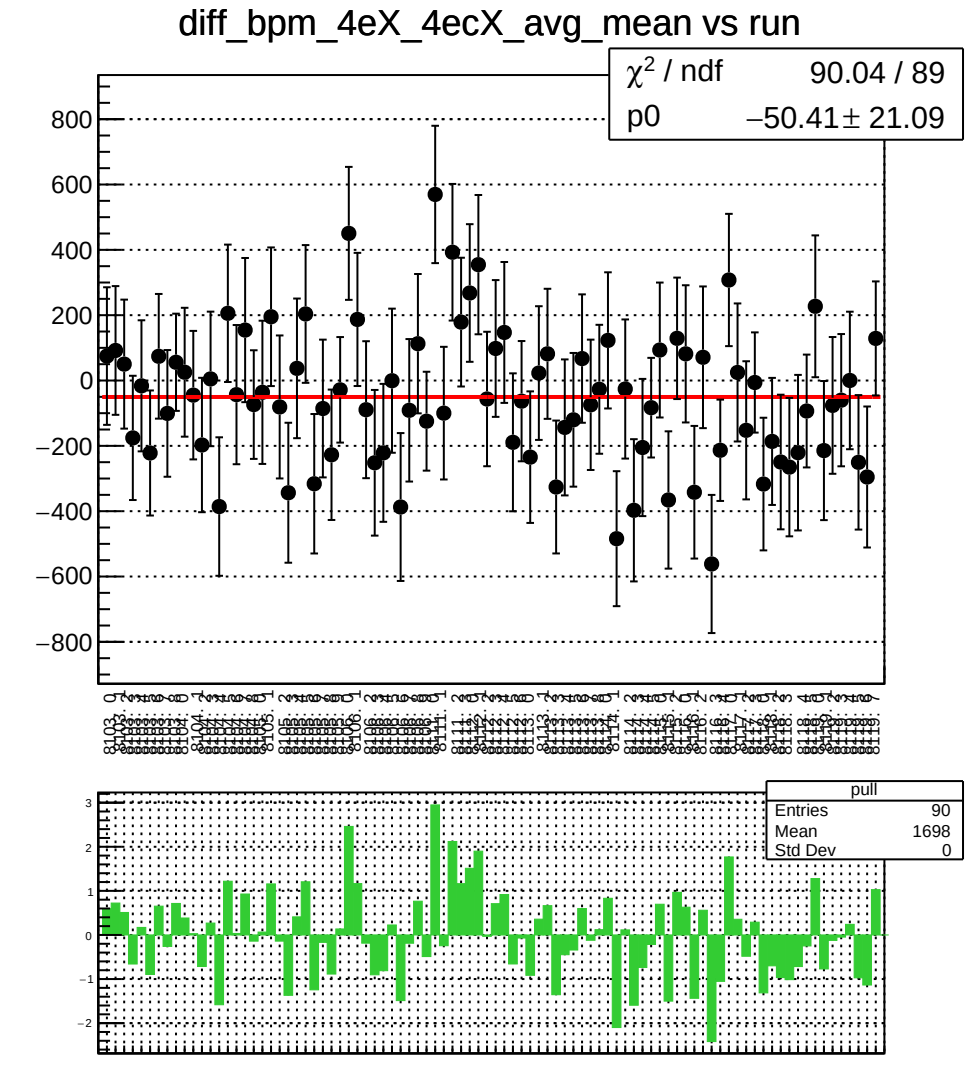

pull1D
Entries 90
Mean −0.002992
Std Dev 0.9986

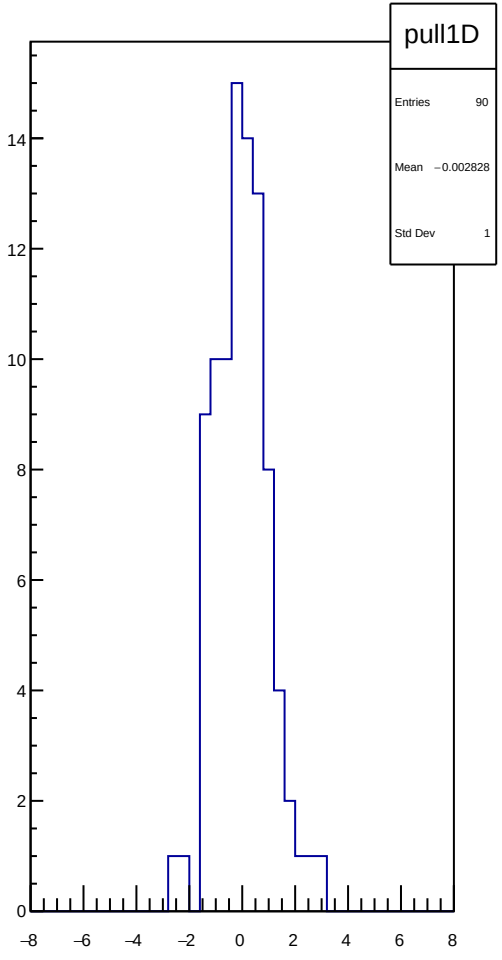

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2608 / 89
p0 2.034e+04 ± 15.35
23000
22000
21000
20000
19000
18000

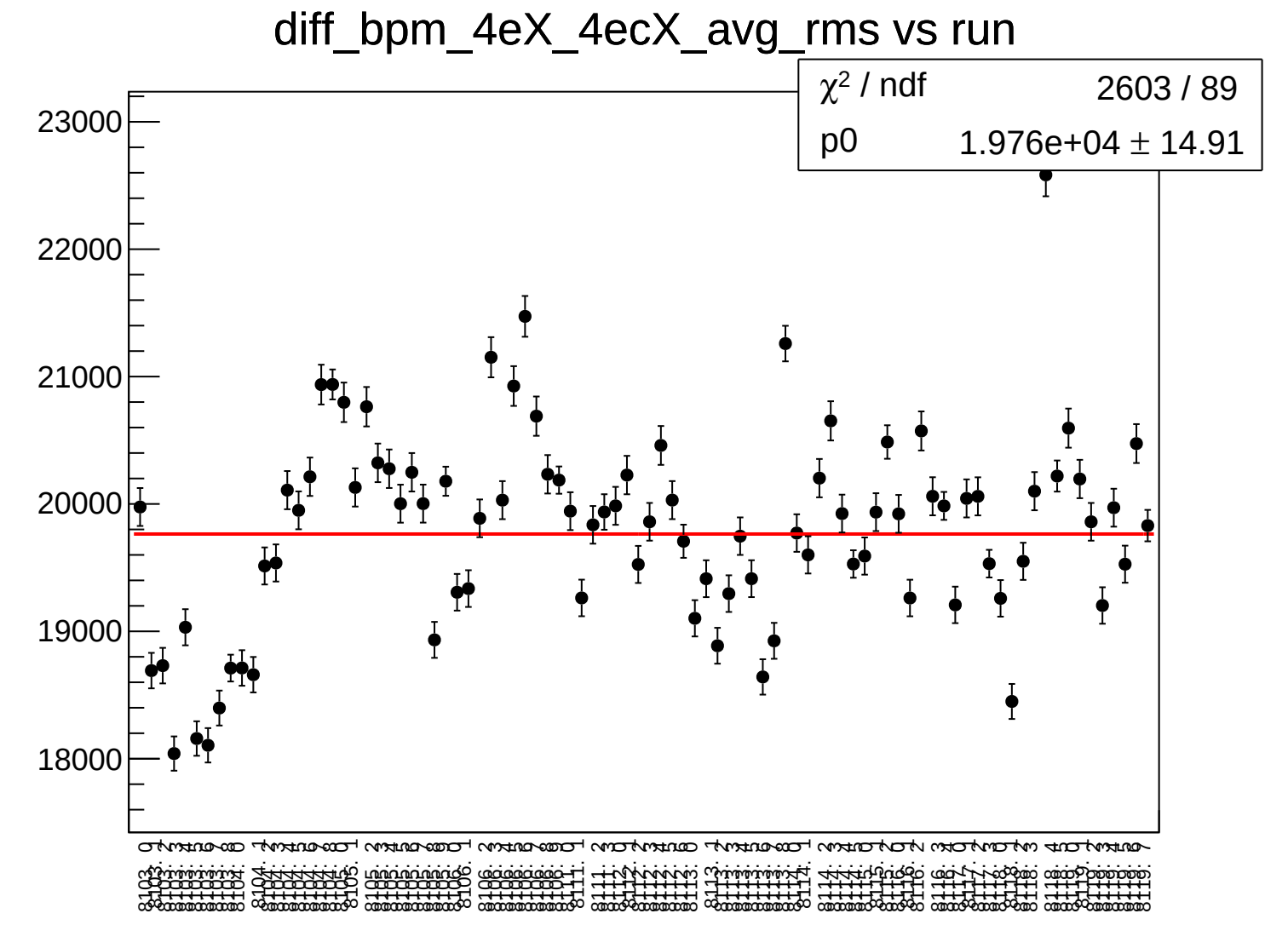

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 70.06 / 89
p0 −0.4285 ± 0.6199
20
10
0
−10
−20
pull
Entries 90
Mean −9576
Std Dev 0
2
1
0
−1
−2

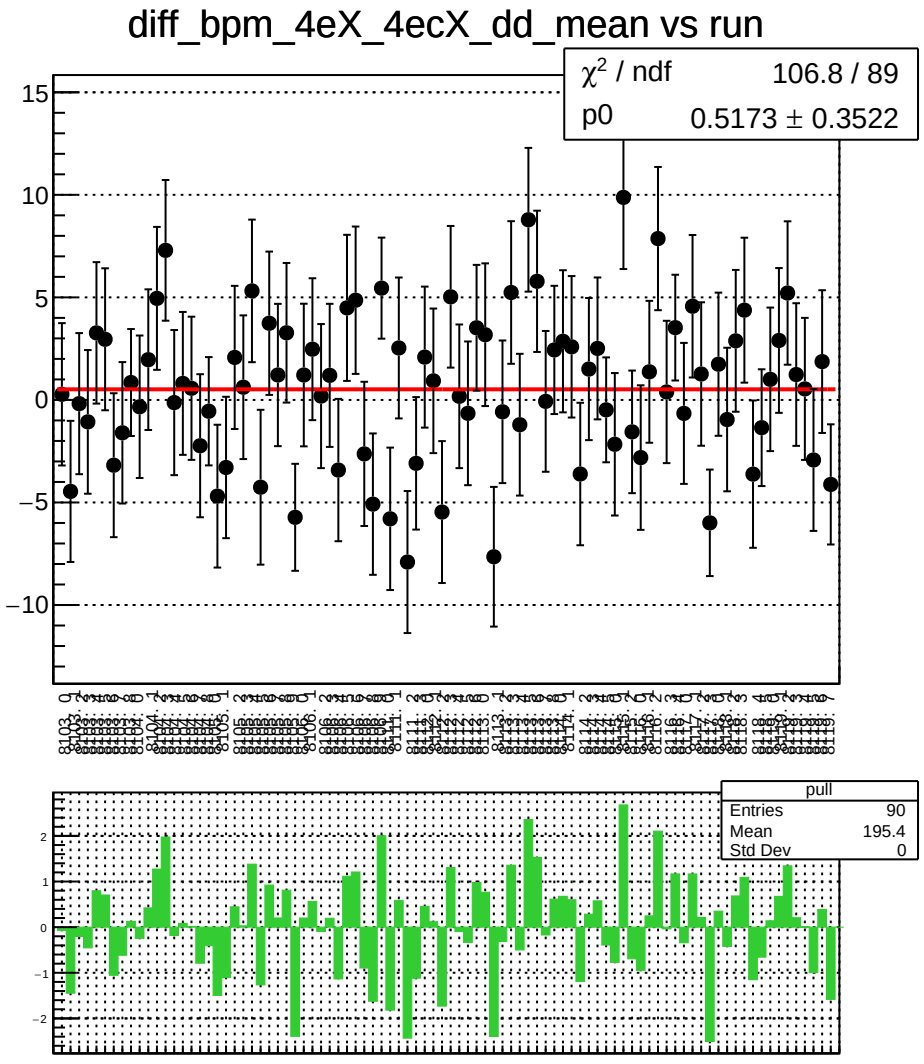

pull1D
Entries 90
Mean 0.0005017
Std Dev 0.8823
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

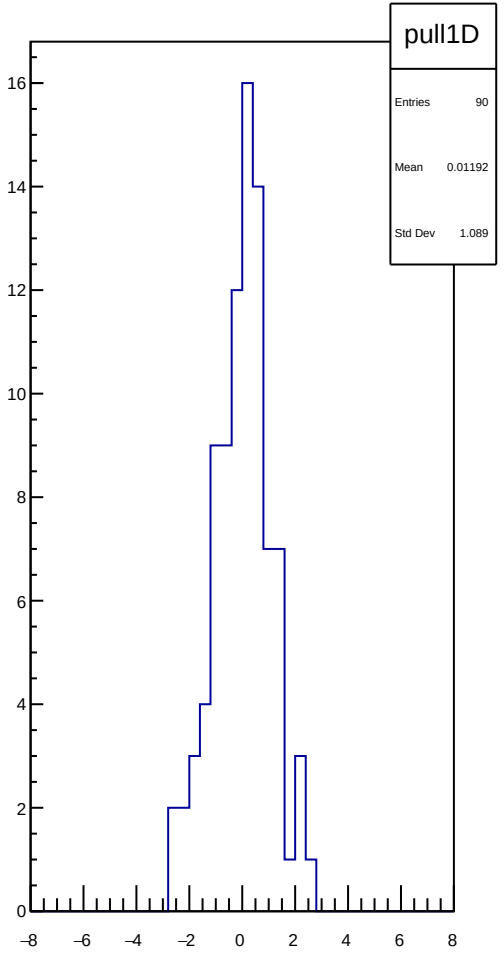

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1309 / 89
p0 581.1 ± 0.4383
640
620
600
580
560
540

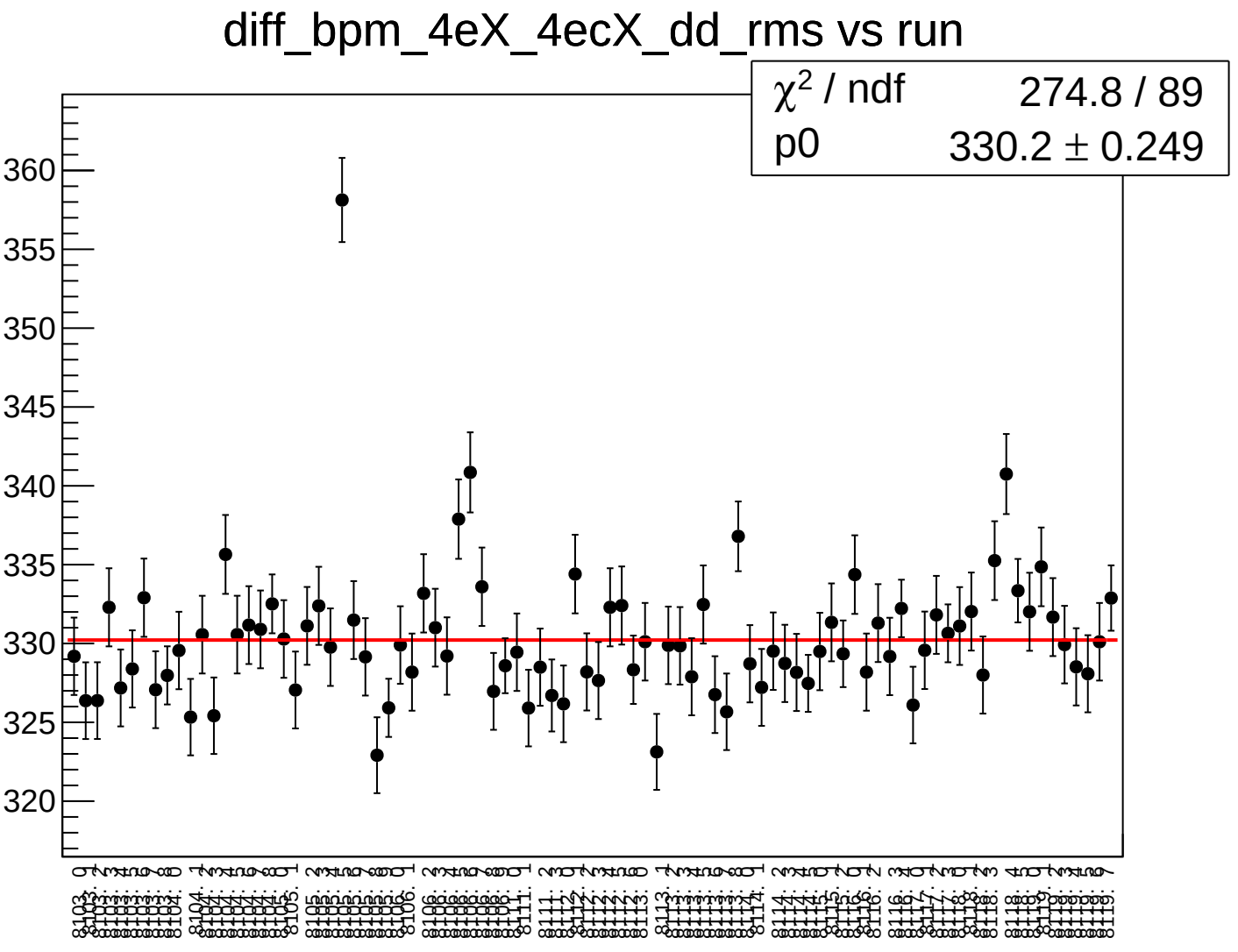

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 90.04 / 89
p0 −50.41 ± 21.09
pull
Entries 90
Mean 1698
Std Dev 0

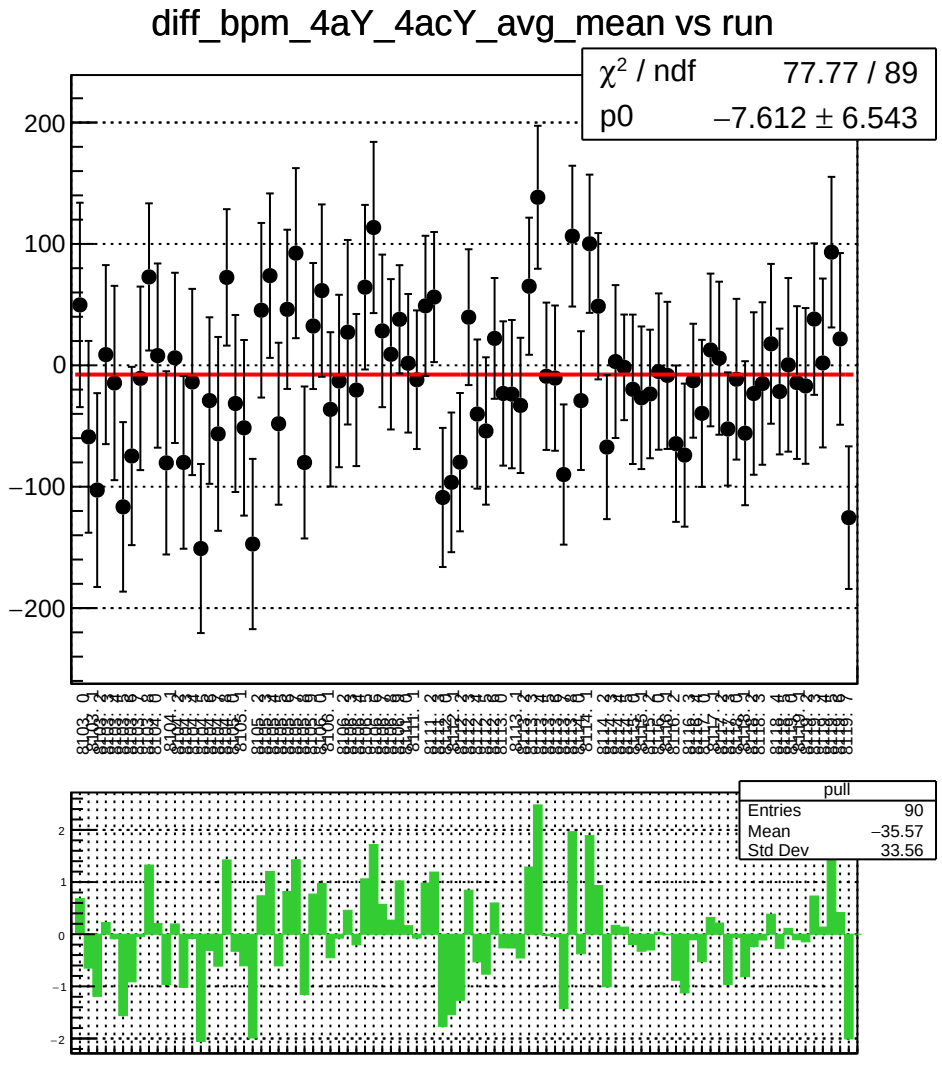

pull1D
Entries 90
Mean −0.002828
Std Dev 1

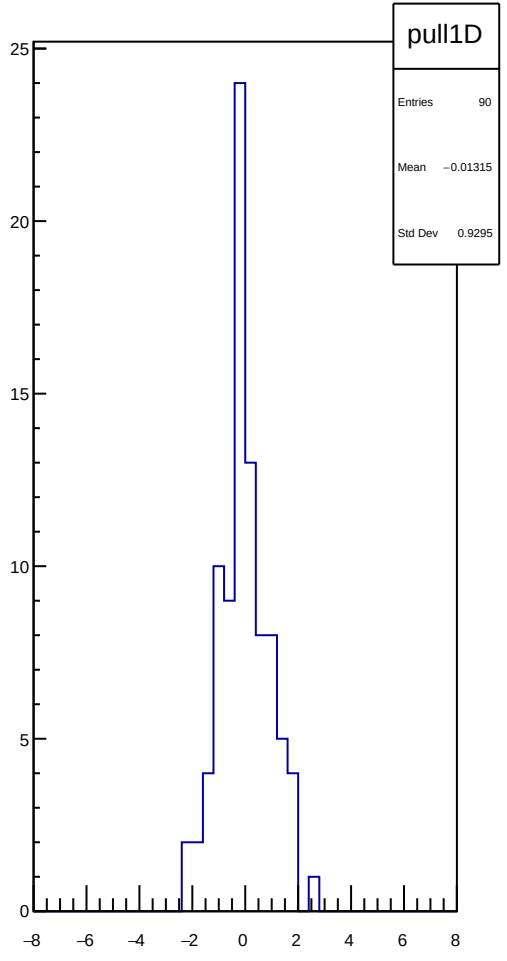

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2603 / 89
p0 1.976e+04 ± 14.91
23000
22000
21000
20000
19000
18000

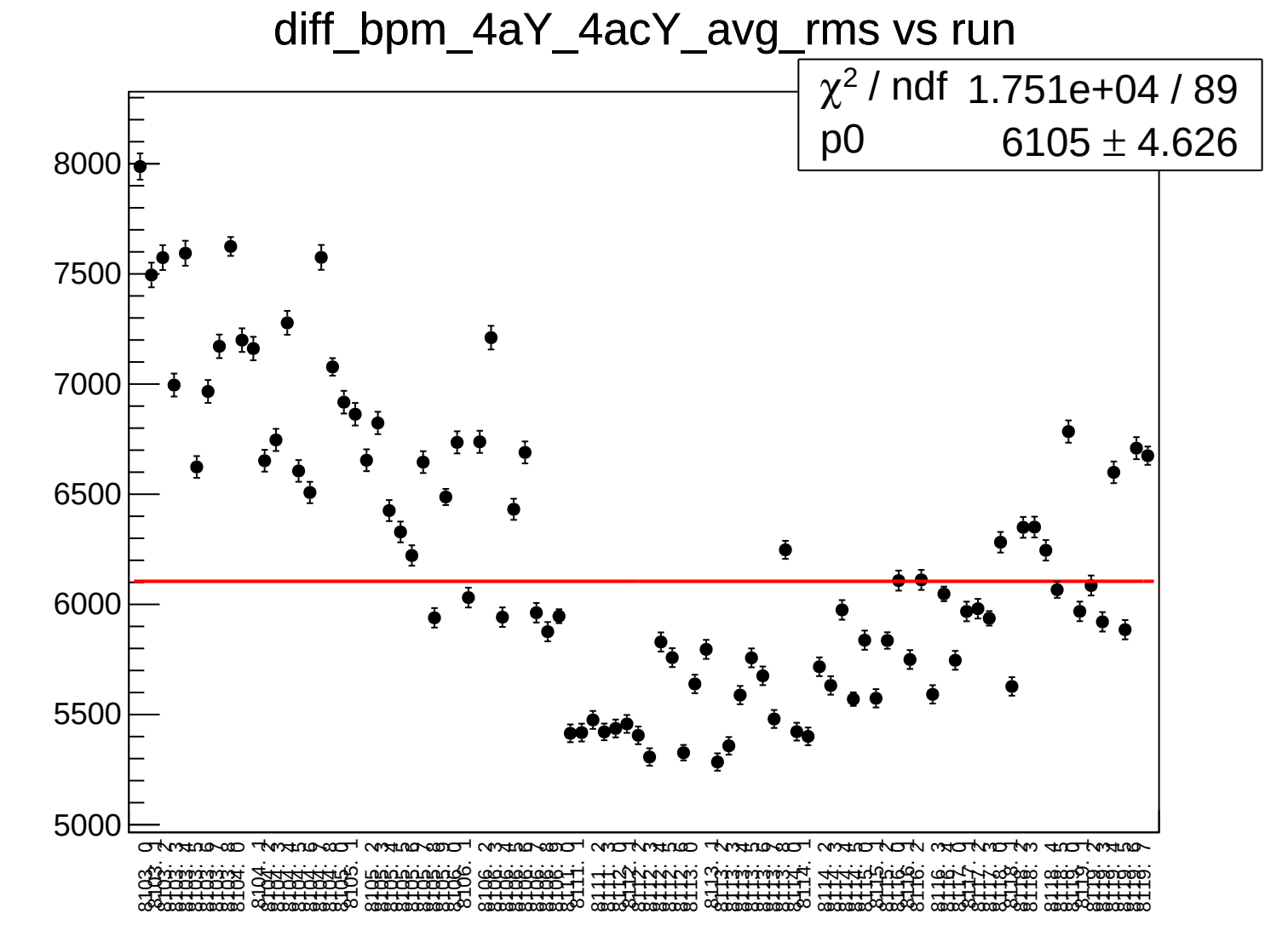

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 106.8 / 89
p0 0.5173 ± 0.3522
pull
Entries 90
Mean 195.4
Std Dev 0

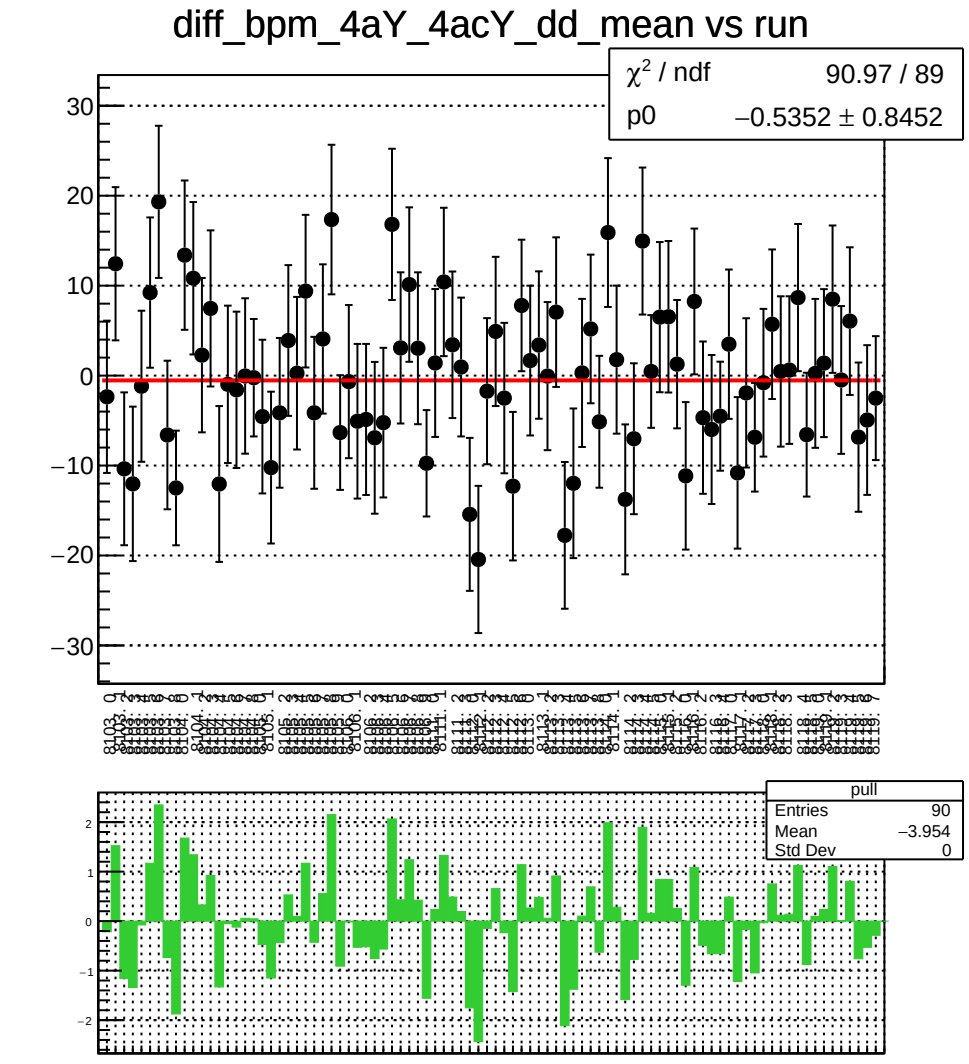

pull1D
Entries 90
Mean 0.01192
Std Dev 1.089

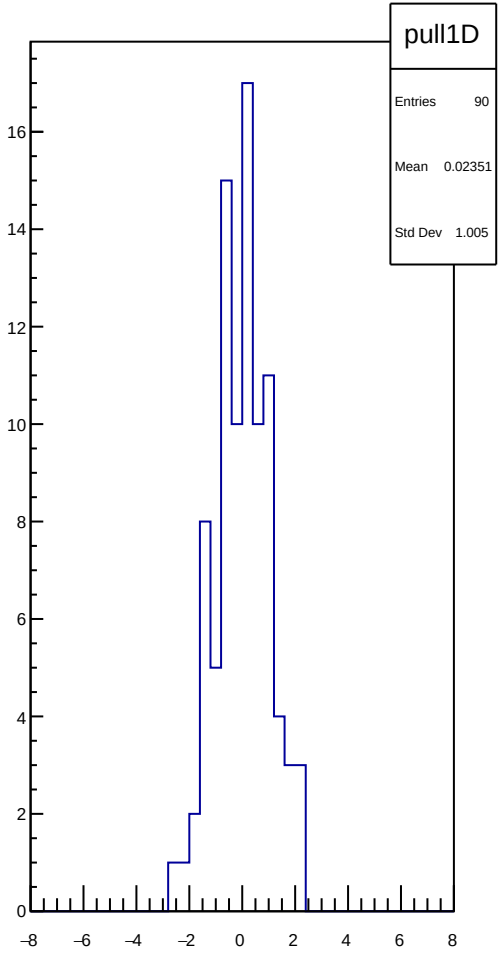

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 274.8 / 89
p0 330.2 ± 0.249
360
355
350
345
340
335
330
325
320

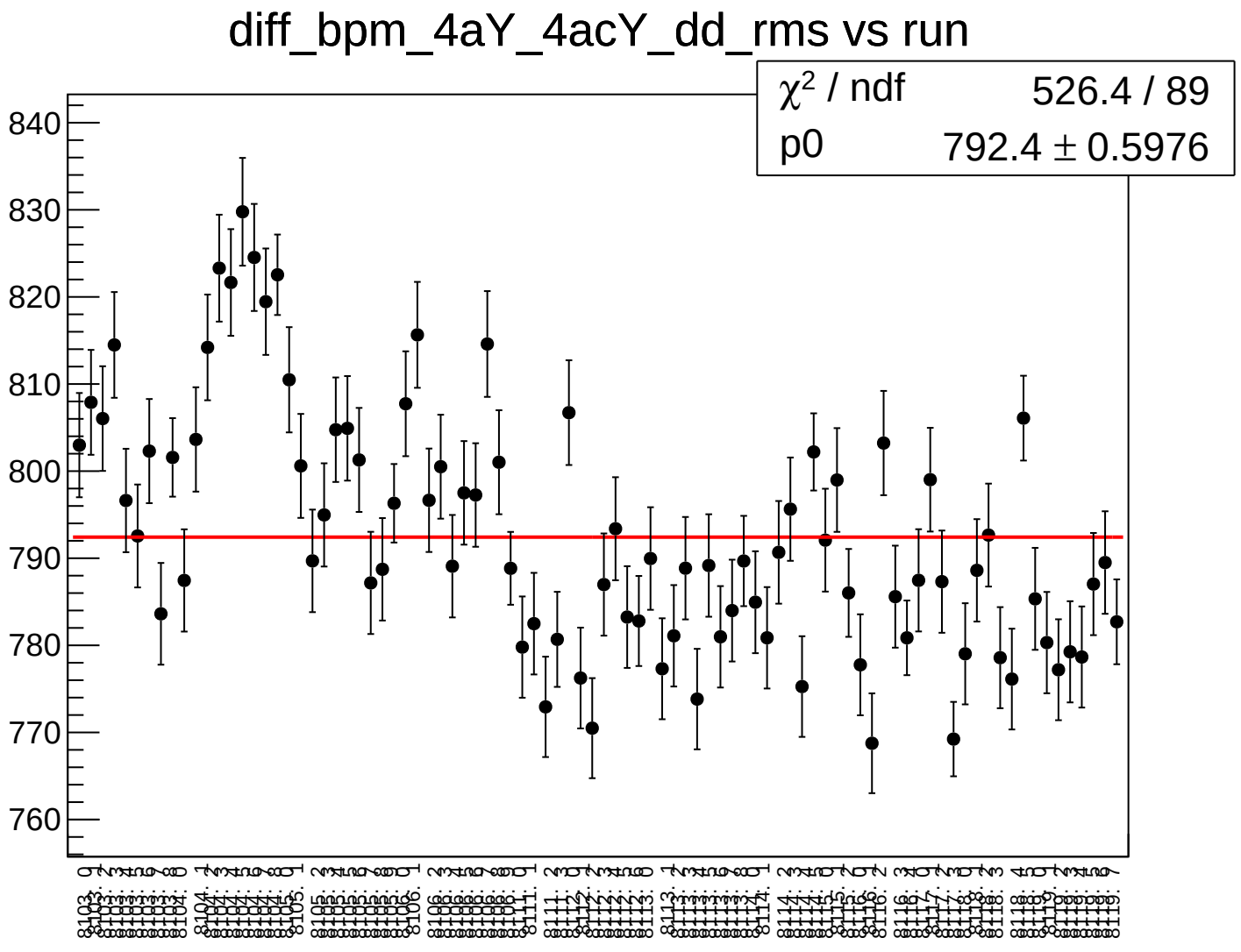

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 77.77 / 89
p0 −7.612 ± 6.543
200
100
0
−100
−200
pull
Entries 90
Mean −35.57
Std Dev 33.56
2
1
0
−1
−2

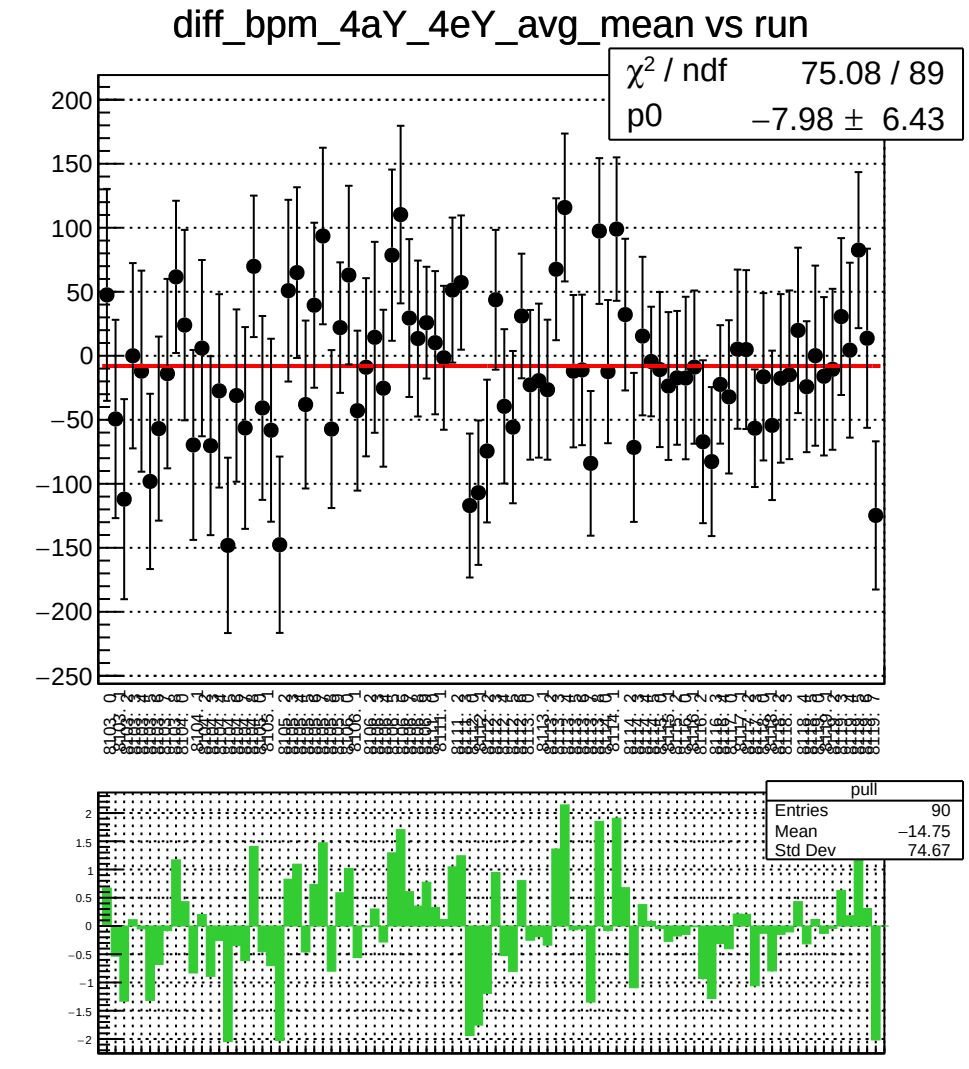

pull1D
Entries 90
Mean −0.01315
Std Dev 0.9295
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

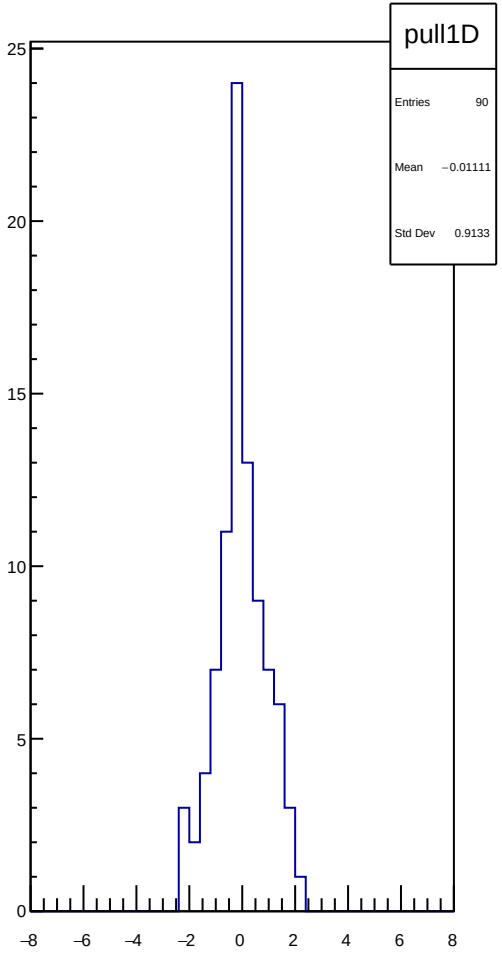

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1.751e+04 / 89
p0 6105 ± 4.626
8000
7500
7000
6500
6000
5500
5000

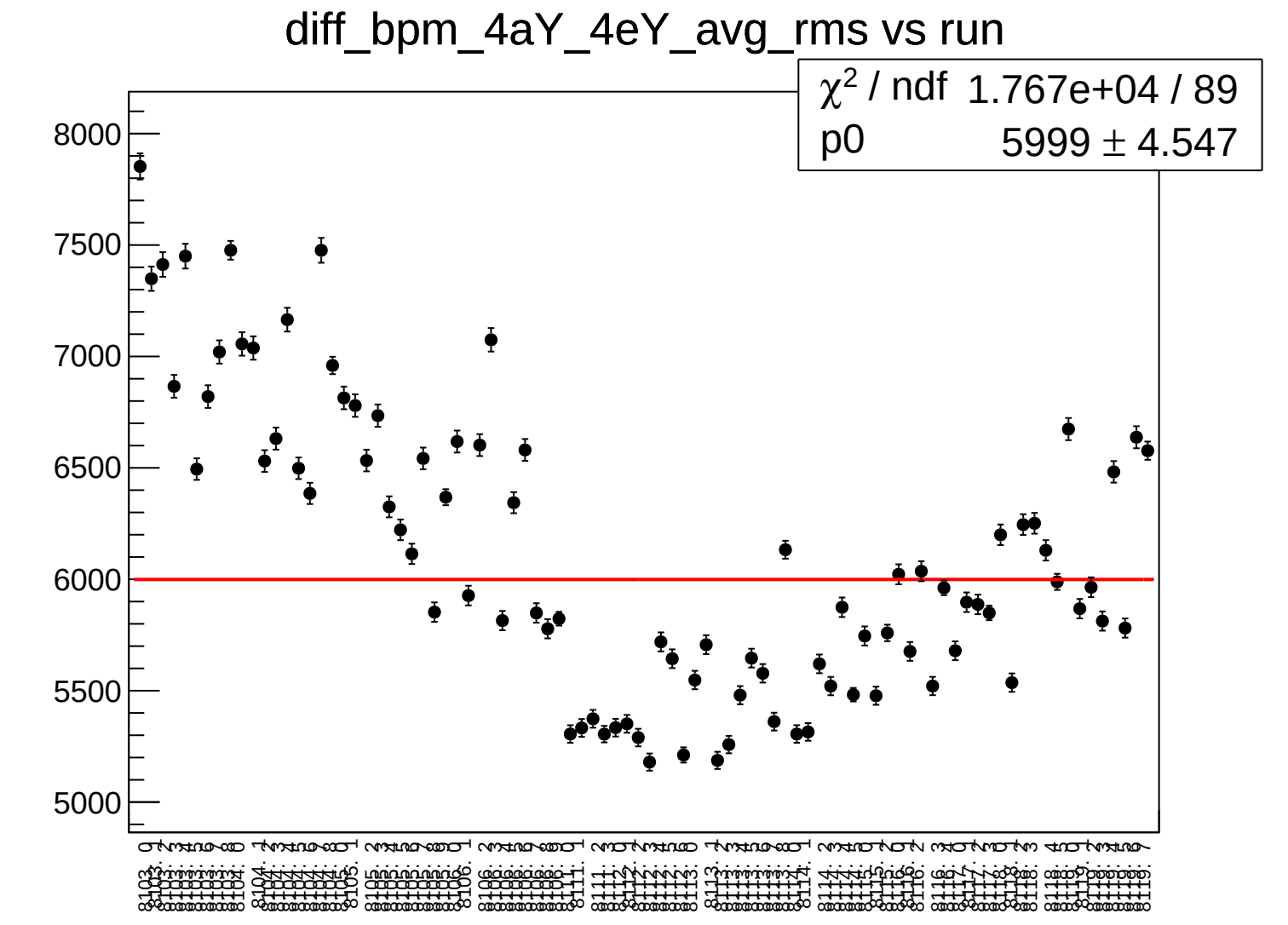

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 90.97 / 89
p0 −0.5352 ± 0.8452
pull
Entries 90
Mean −3.954
Std Dev 0

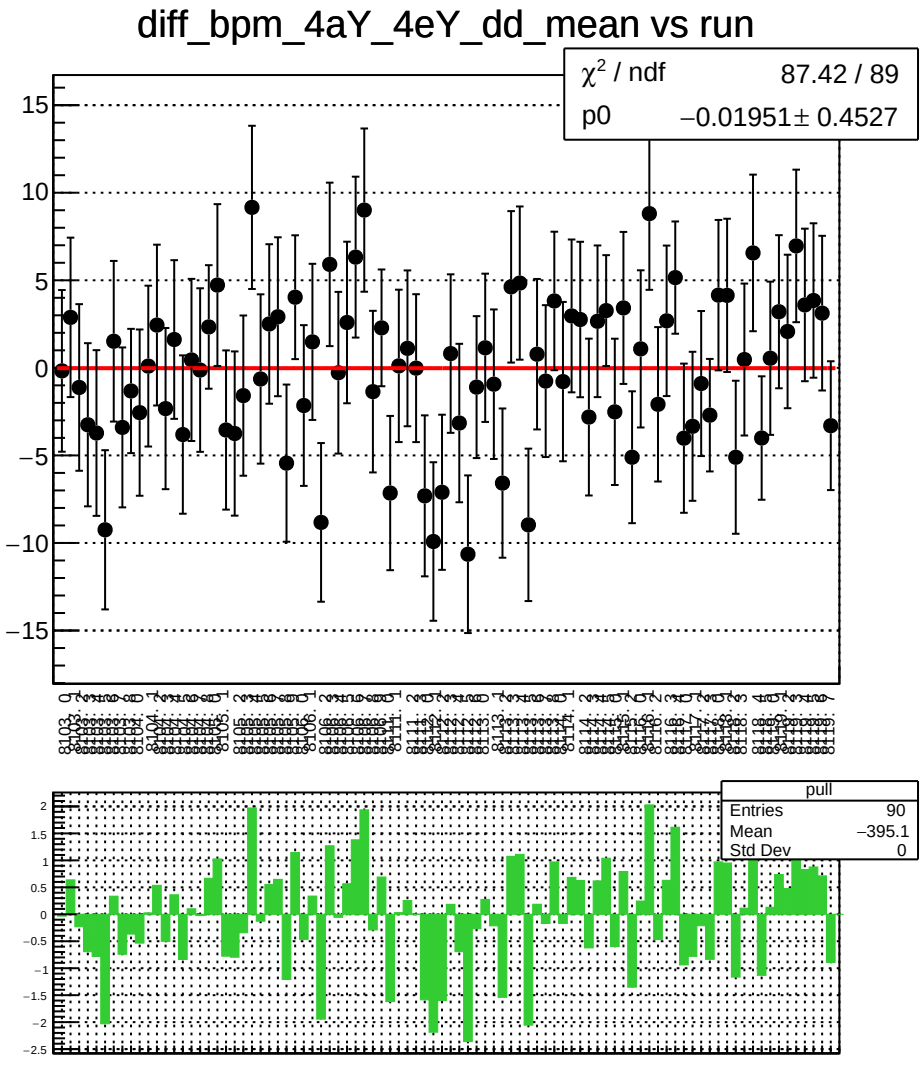

pull1D
Entries 90
Mean 0.02351
Std Dev 1.005

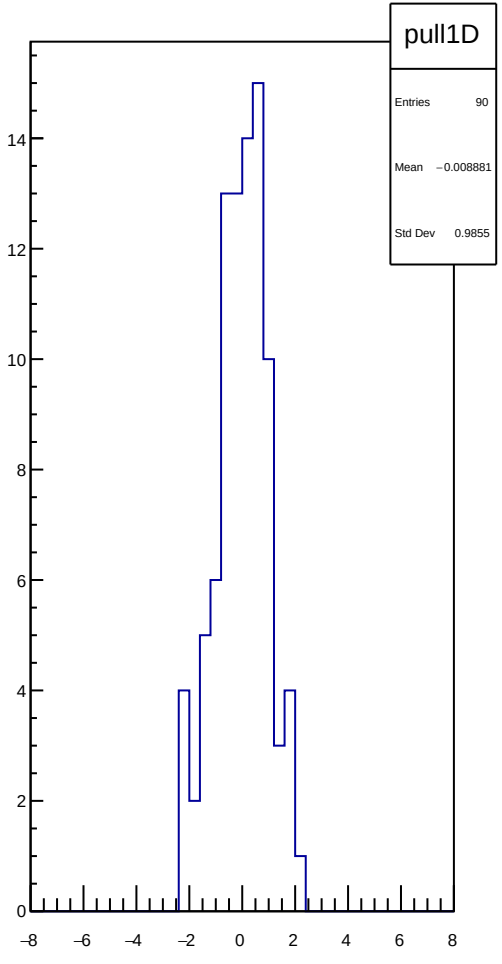

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 526.4 / 89
p0 792.4 ± 0.5976
840
830
820
810
800
790
780
770
760

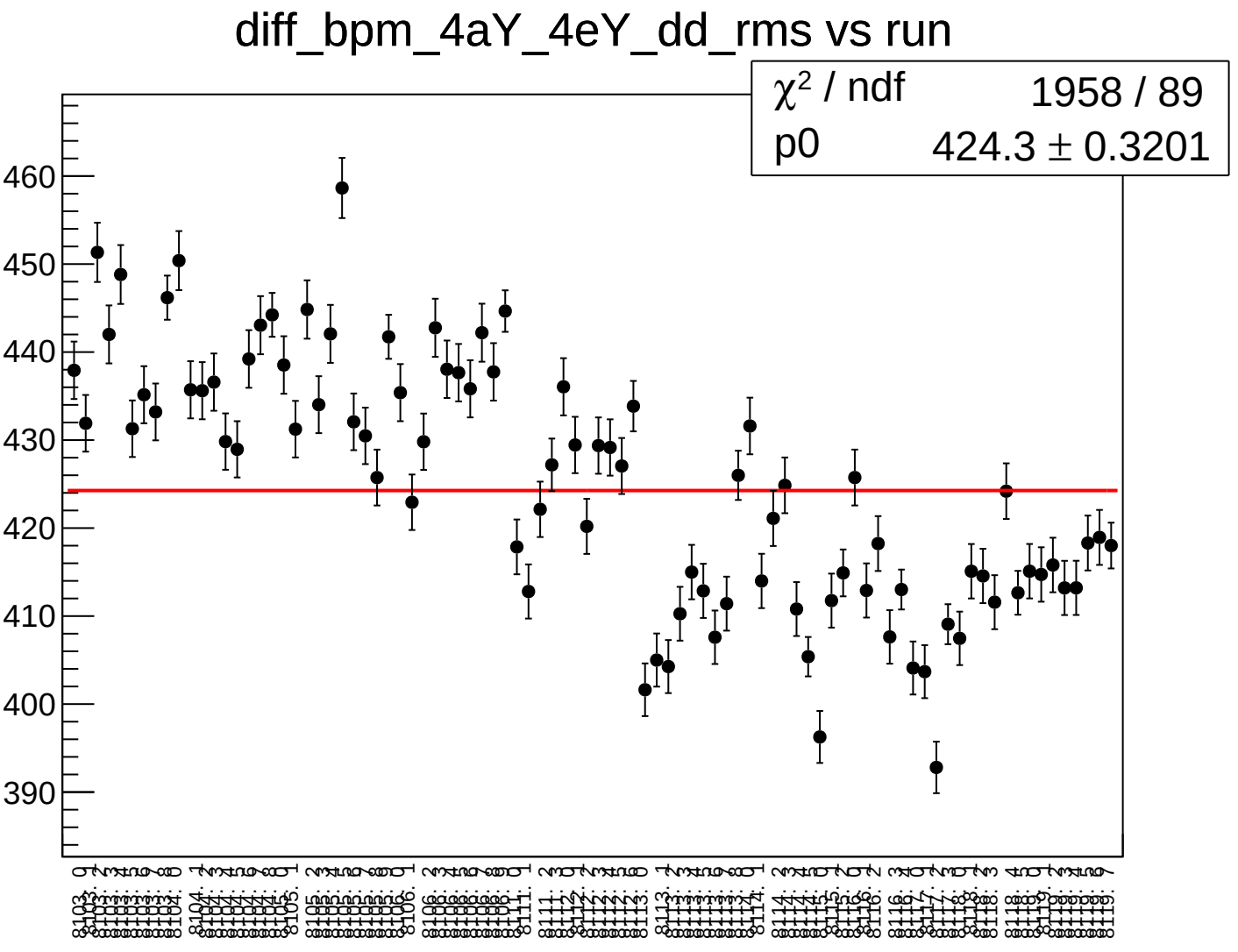

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 75.08 / 89
p0 −7.98 ± 6.43
pull
Entries 90
Mean −14.75
Std Dev 74.67

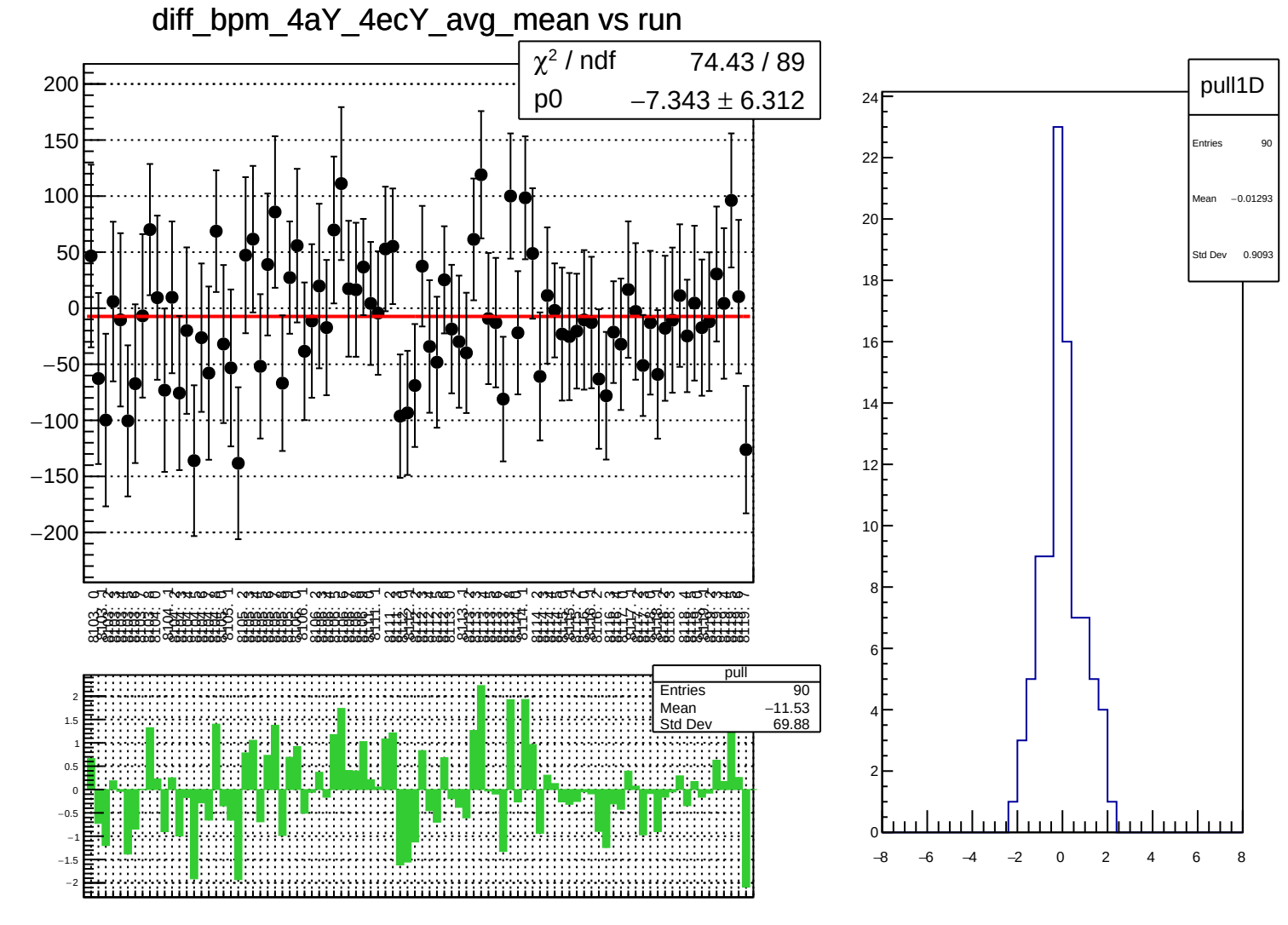

pull1D
Entries 90
Mean −0.01111
Std Dev 0.9133

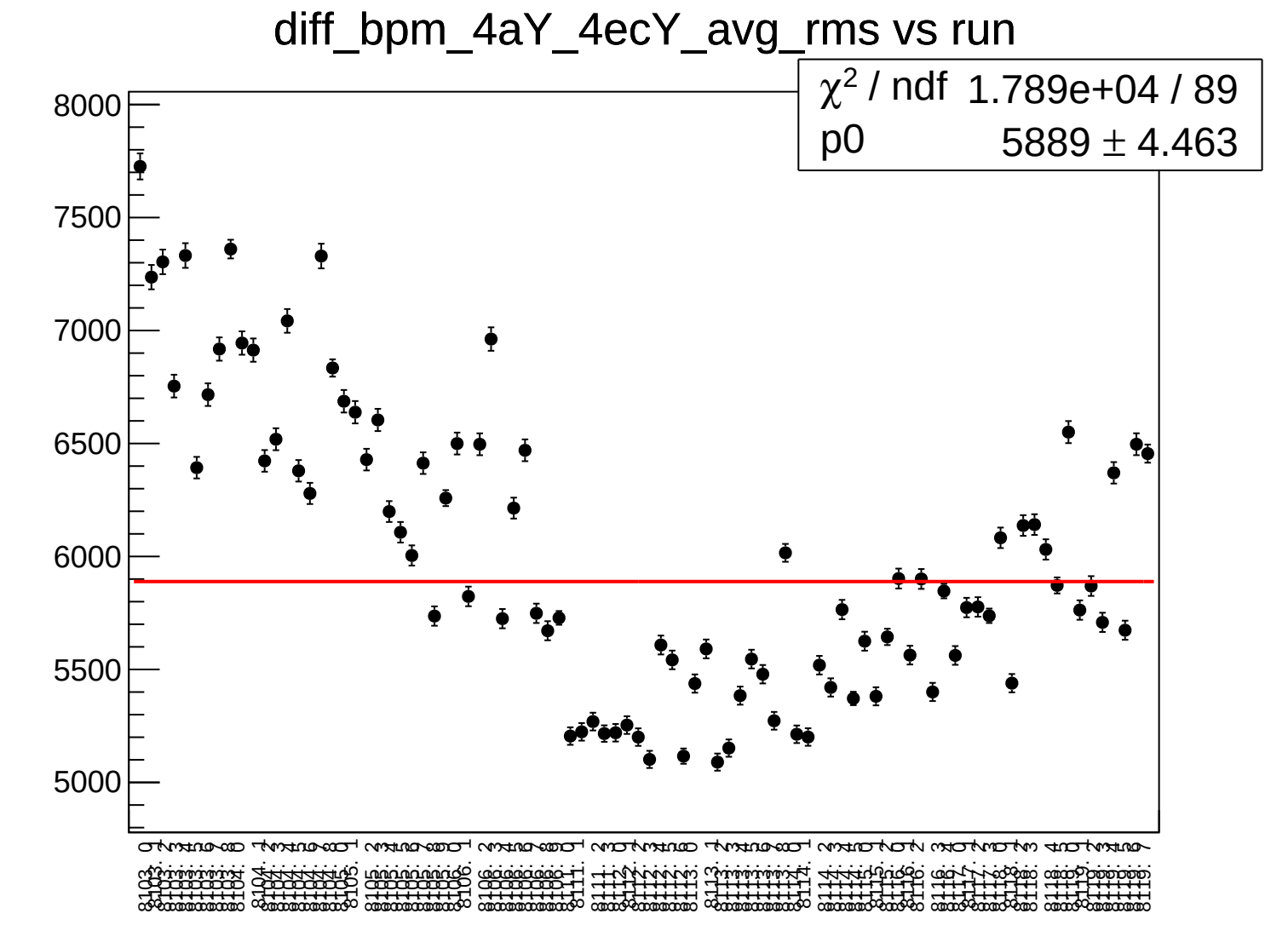

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1.767e+04 / 89
p0 5999 ± 4.547
8000
7500
7000
6500
6000
5500
5000

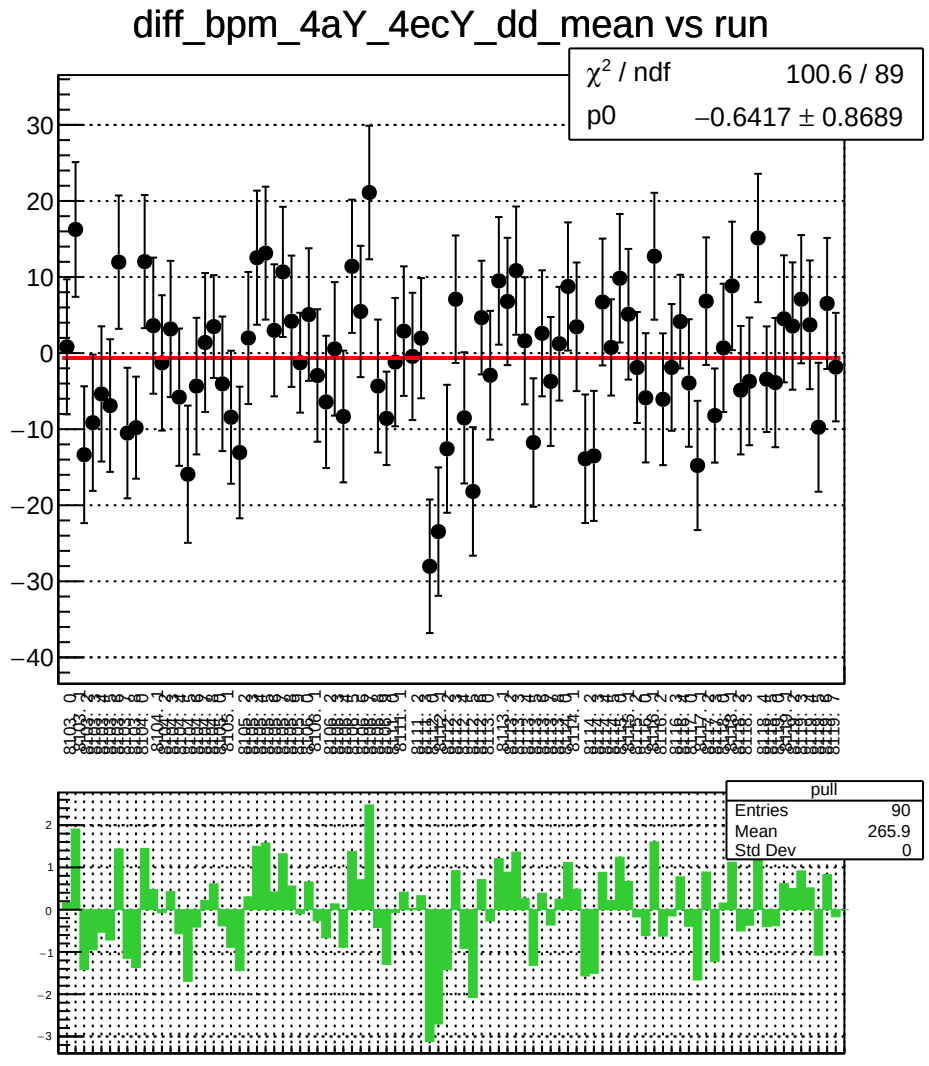

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 87.42 / 89
p0 −0.01951 ± 0.4527
pull
Entries 90
Mean −395.1
Std Dev 0

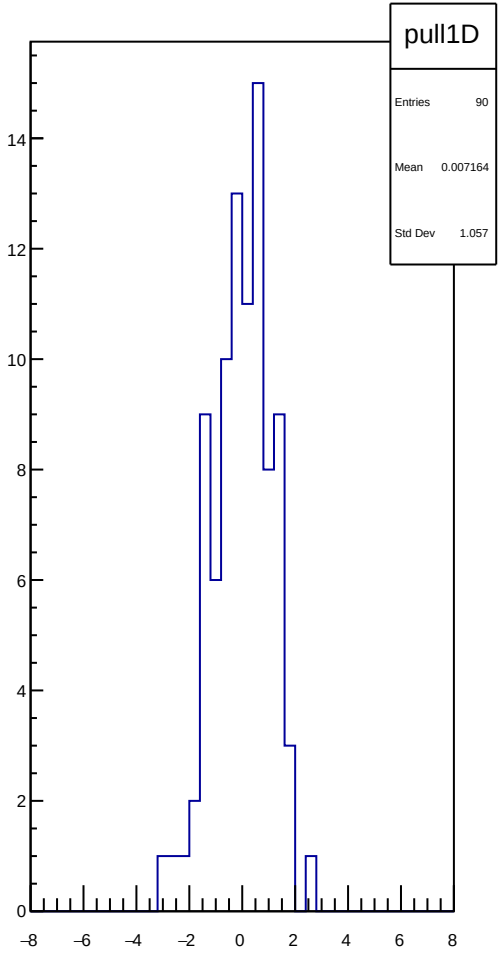

pull1D
Entries 90
Mean −0.008881
Std Dev 0.9855

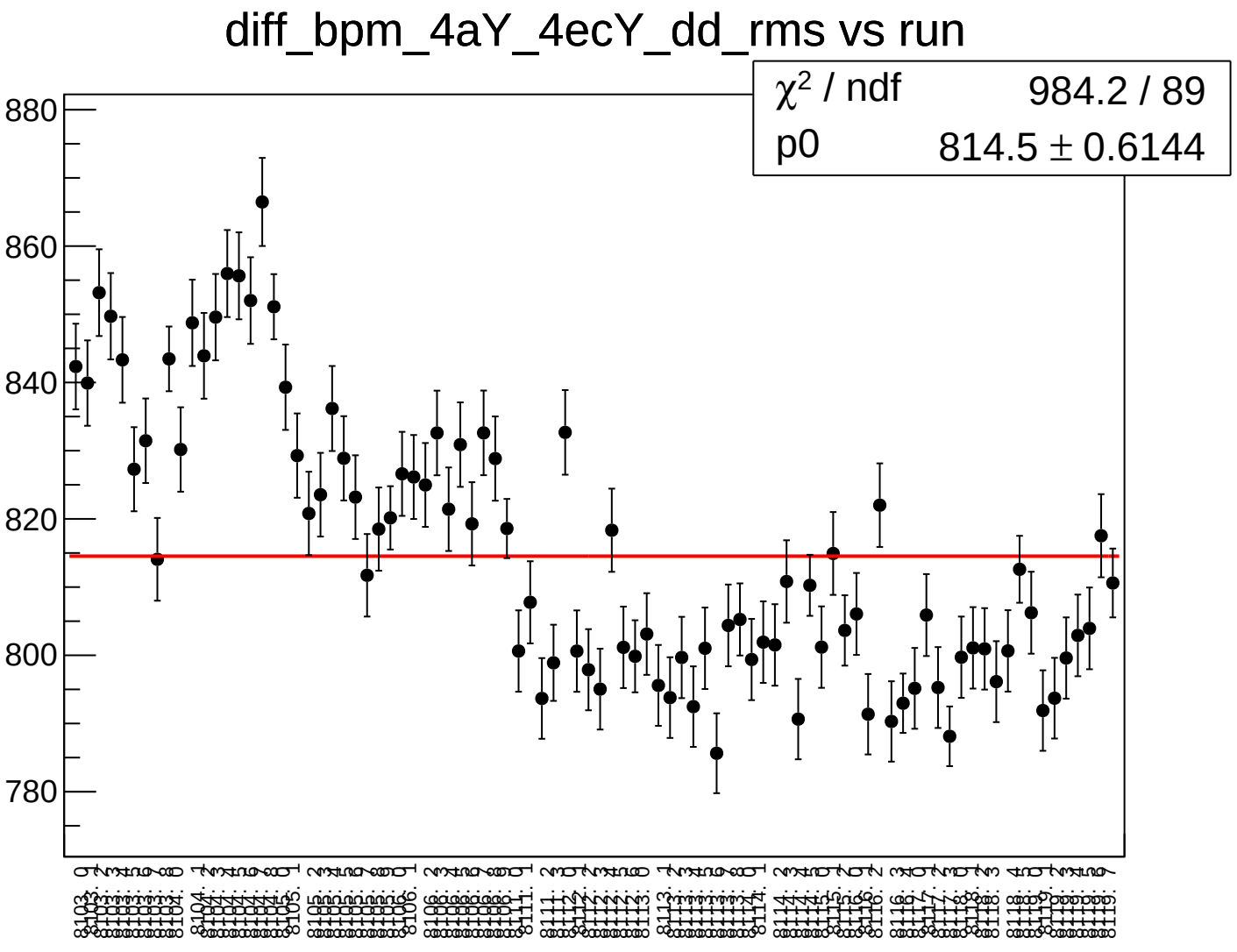

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1958 / 89
p0 424.3 ± 0.3201
460
450
440
430
420
410
400
390

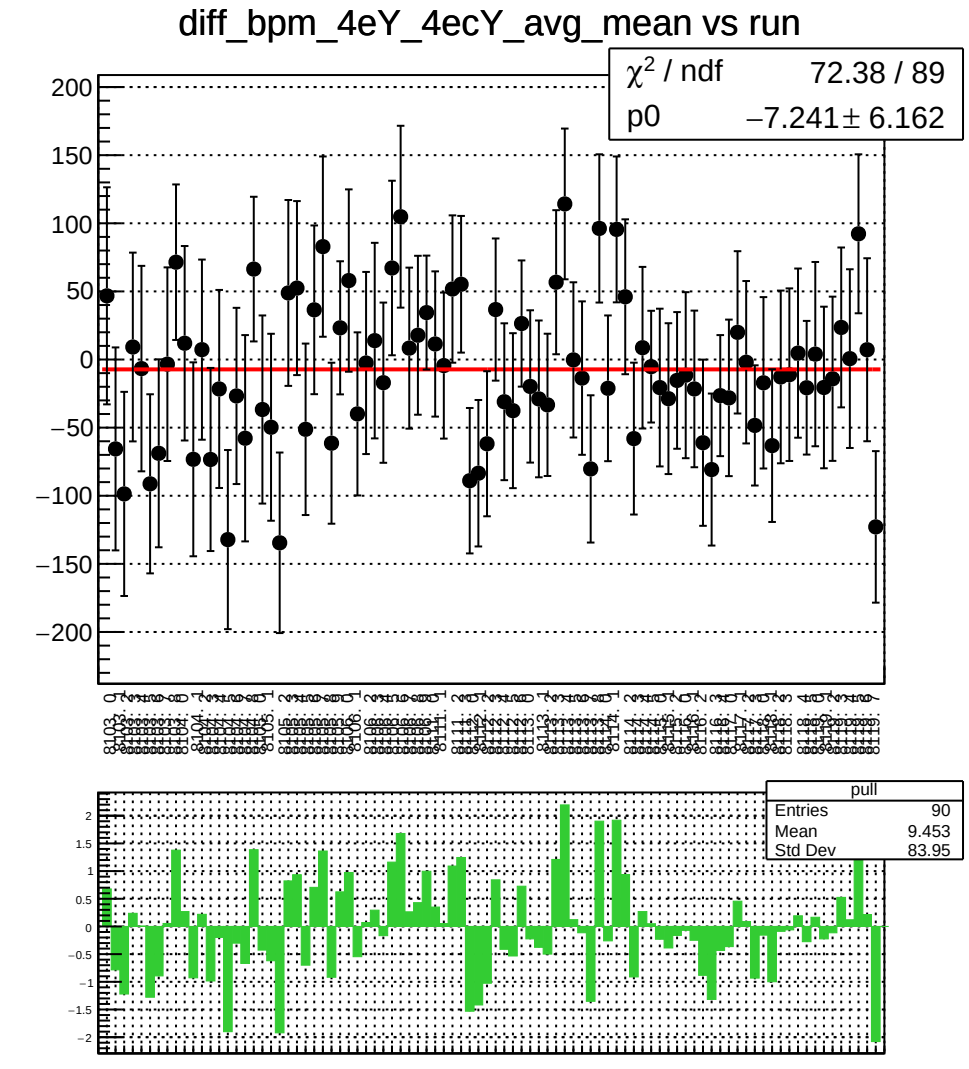

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 74.43 / 89
p0 −7.343 ± 6.312
pull
Entries 90
Mean −11.53
Std Dev 69.88
pull1D
Entries 90
Mean −0.01293
Std Dev 0.9093

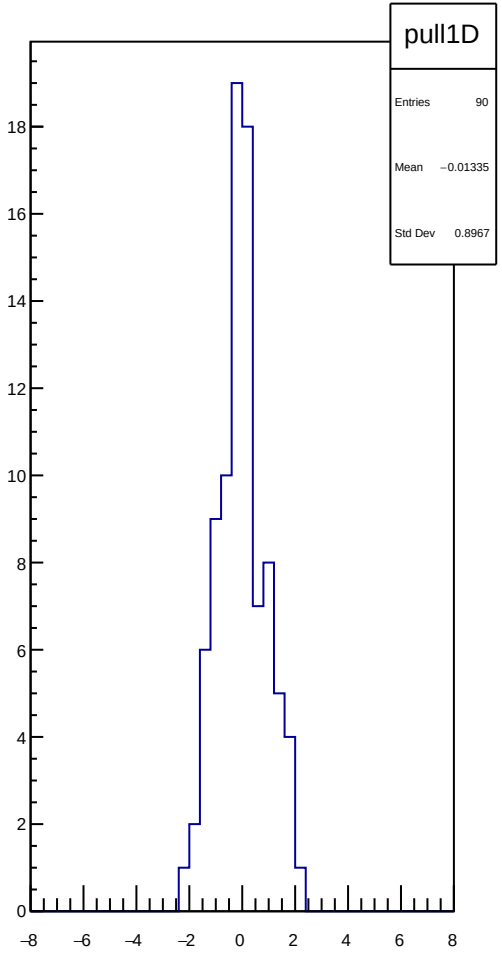

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.789e+04 / 89
p0 5889 ± 4.463
8000
7500
7000
6500
6000
5500
5000

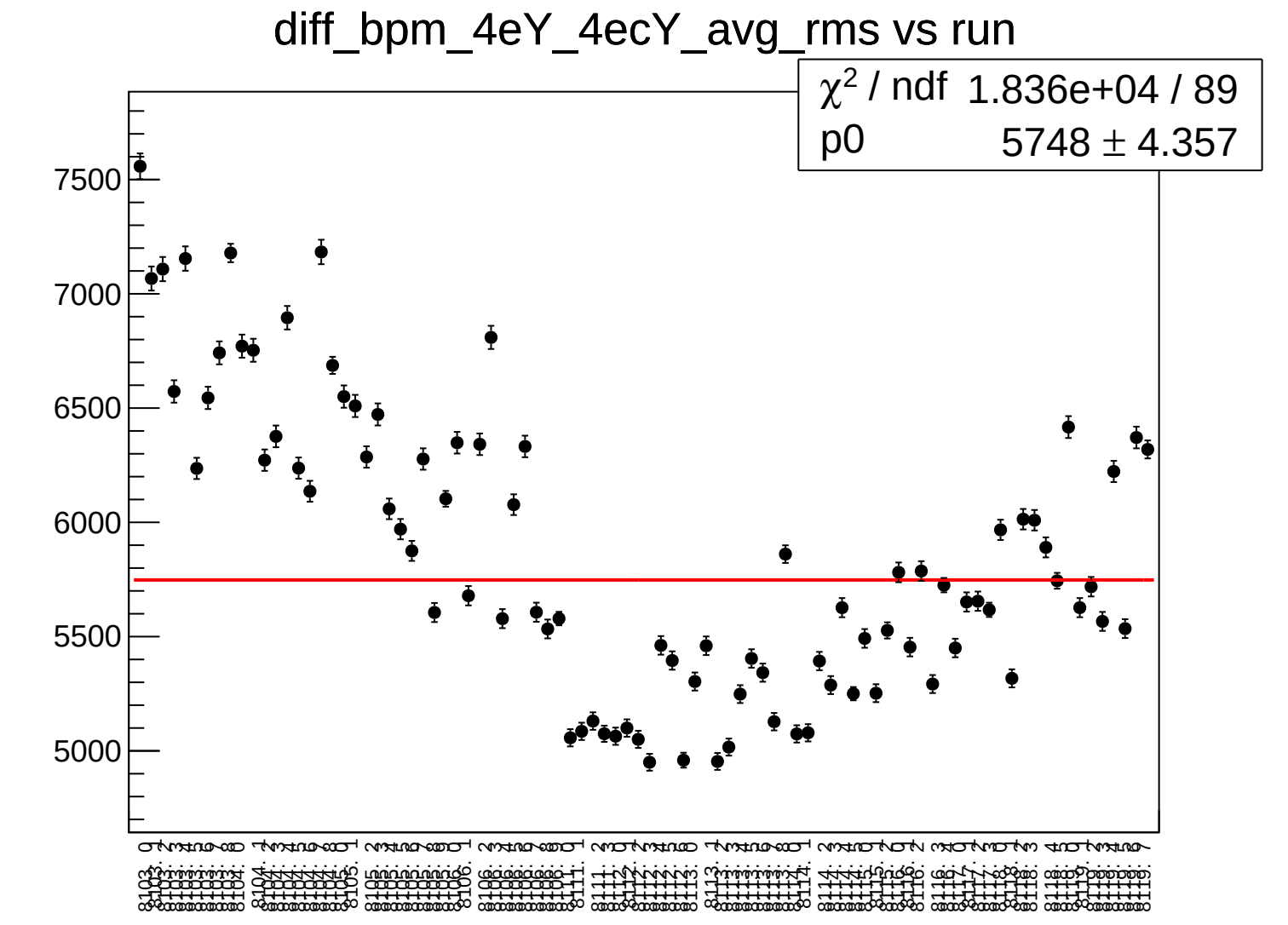

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 100.6 / 89
p0 −0.6417 ± 0.8689
pull
Entries 90
Mean 265.9
Std Dev 0

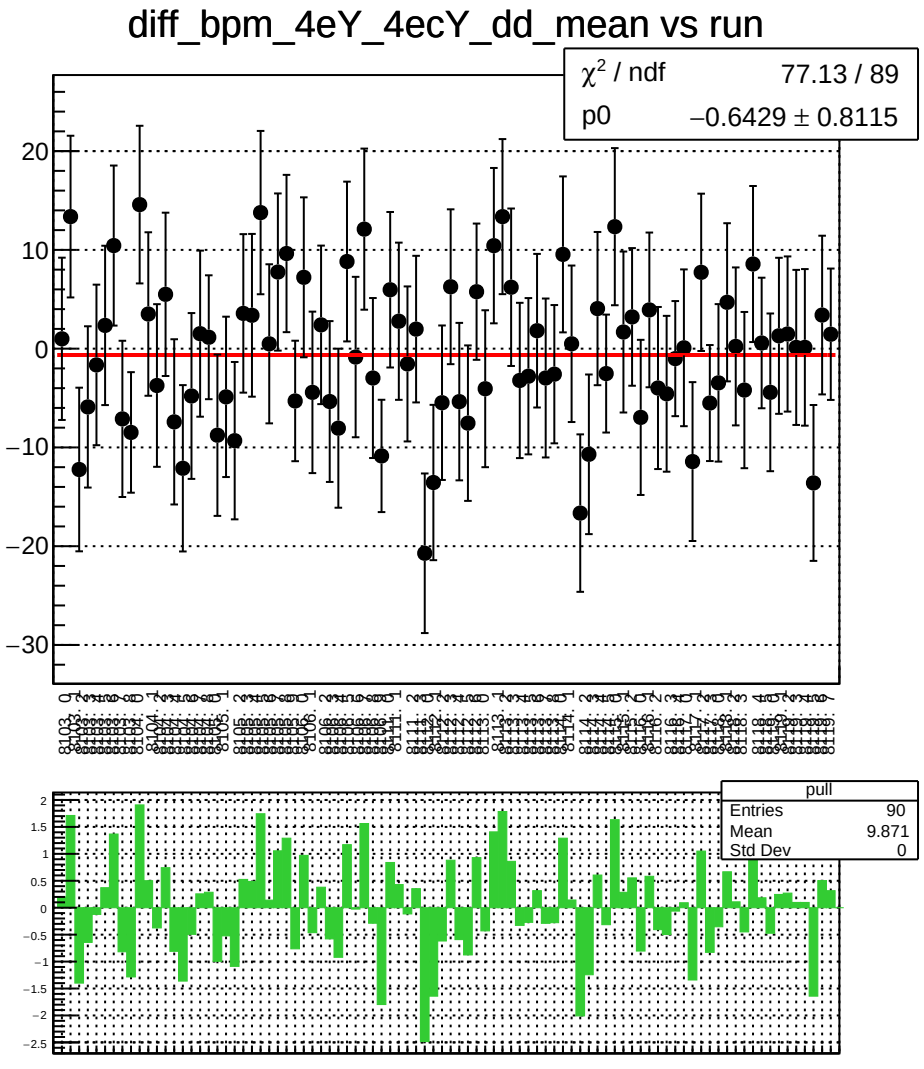

pull1D
Entries 90
Mean 0.007164
Std Dev 1.057

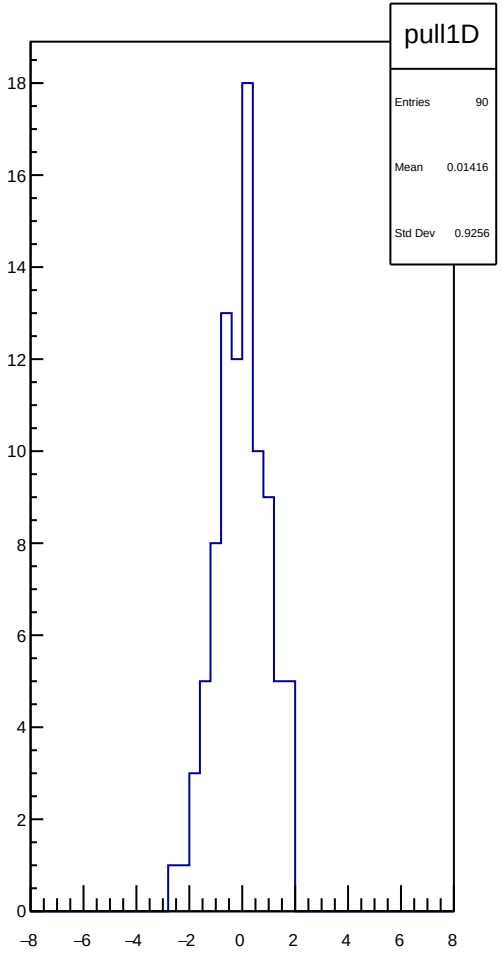

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 984.2 / 89
p0 814.5 ± 0.6144
880
860
840
820
800
780

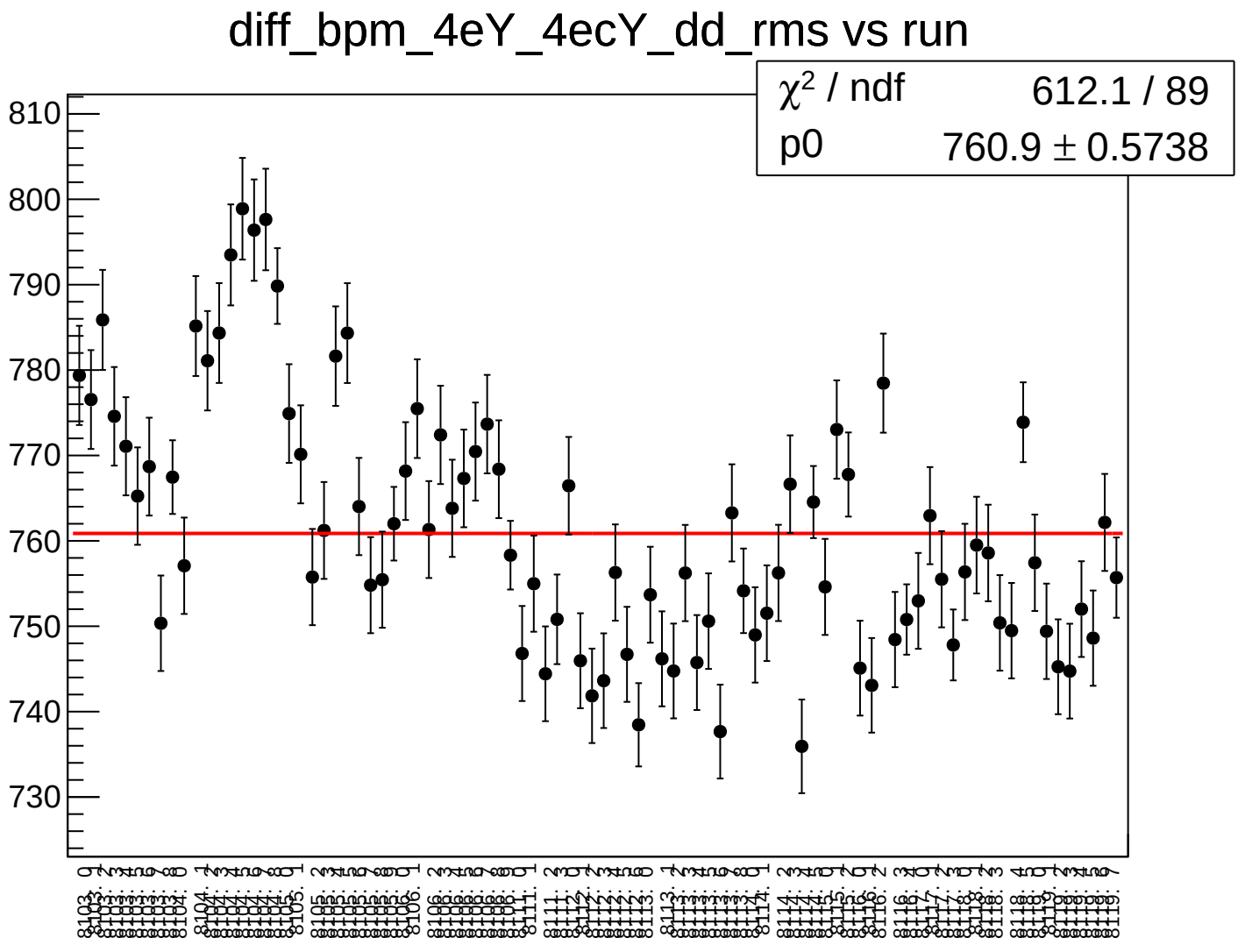

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 72.38 / 89
p0 −7.241 ± 6.162
pull
Entries 90
Mean 9.453
Std Dev 83.95

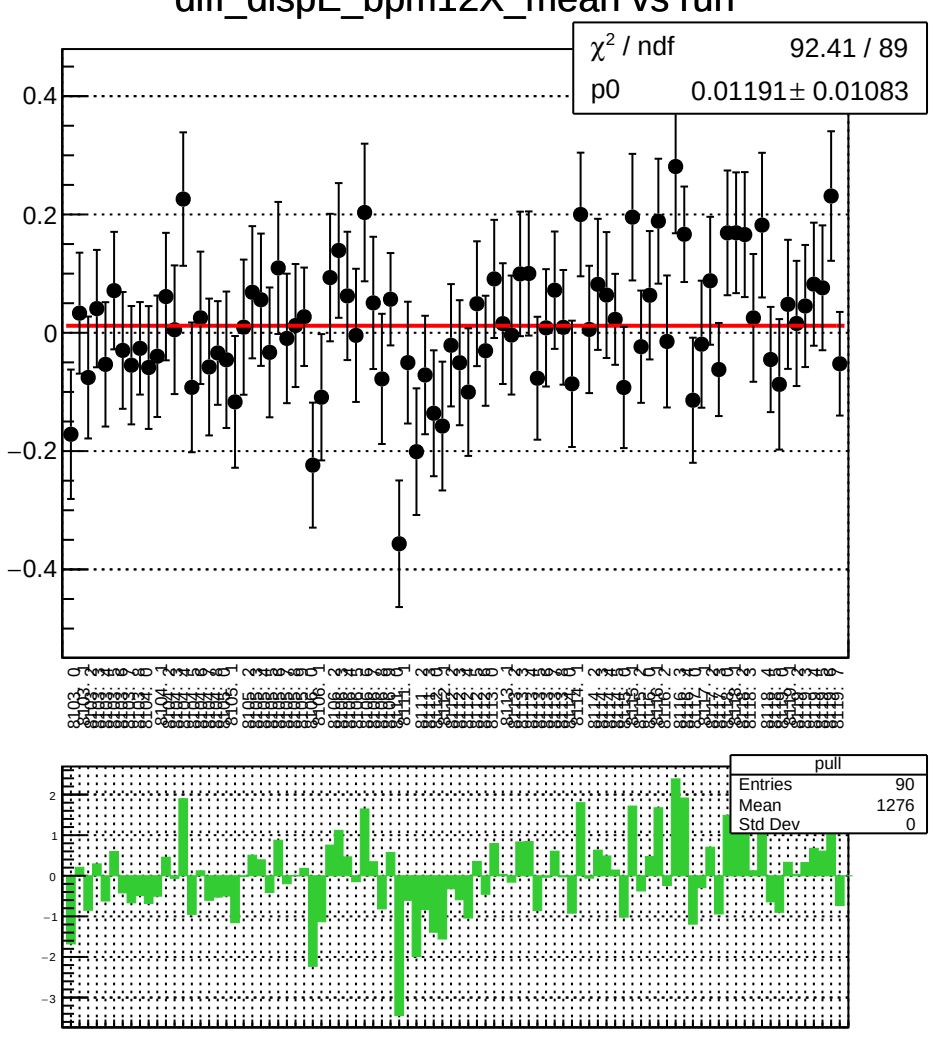

pull1D
Entries 90
Mean −0.01335
Std Dev 0.8967

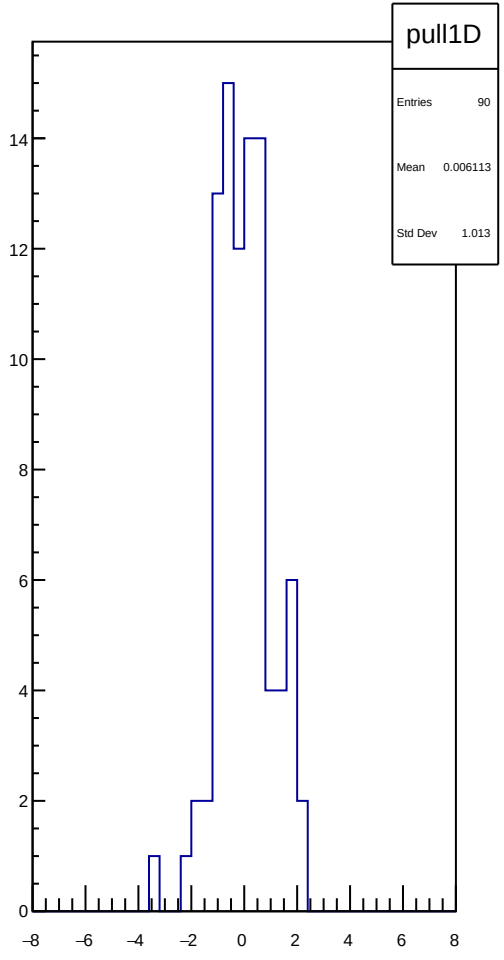

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.836e+04 / 89
p0 5748 ± 4.357
7500
7000
6500
6000
5500
5000

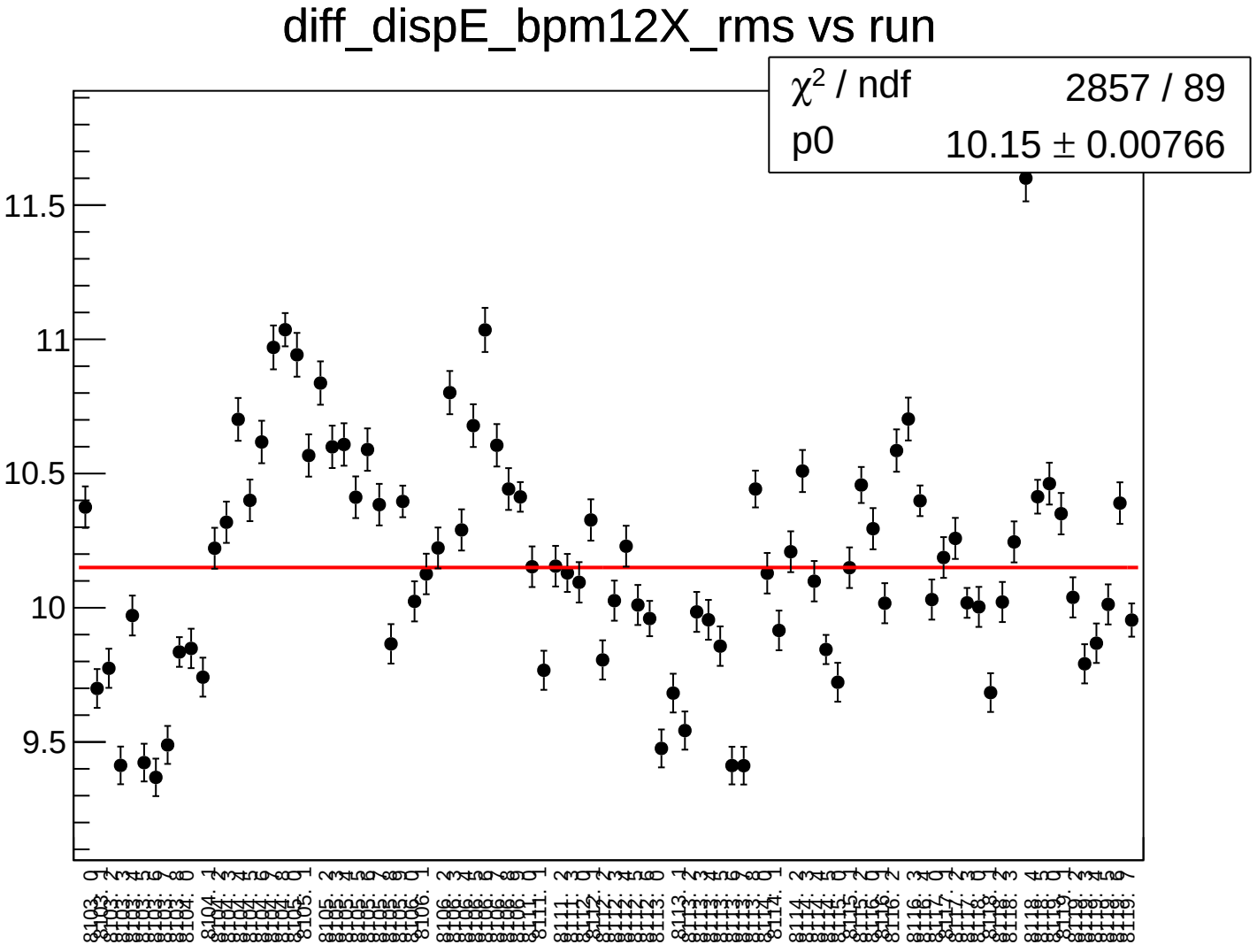

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 77.13 / 89
p0 −0.6429 ± 0.8115
pull
Entries 90
Mean 9.871
Std Dev 0

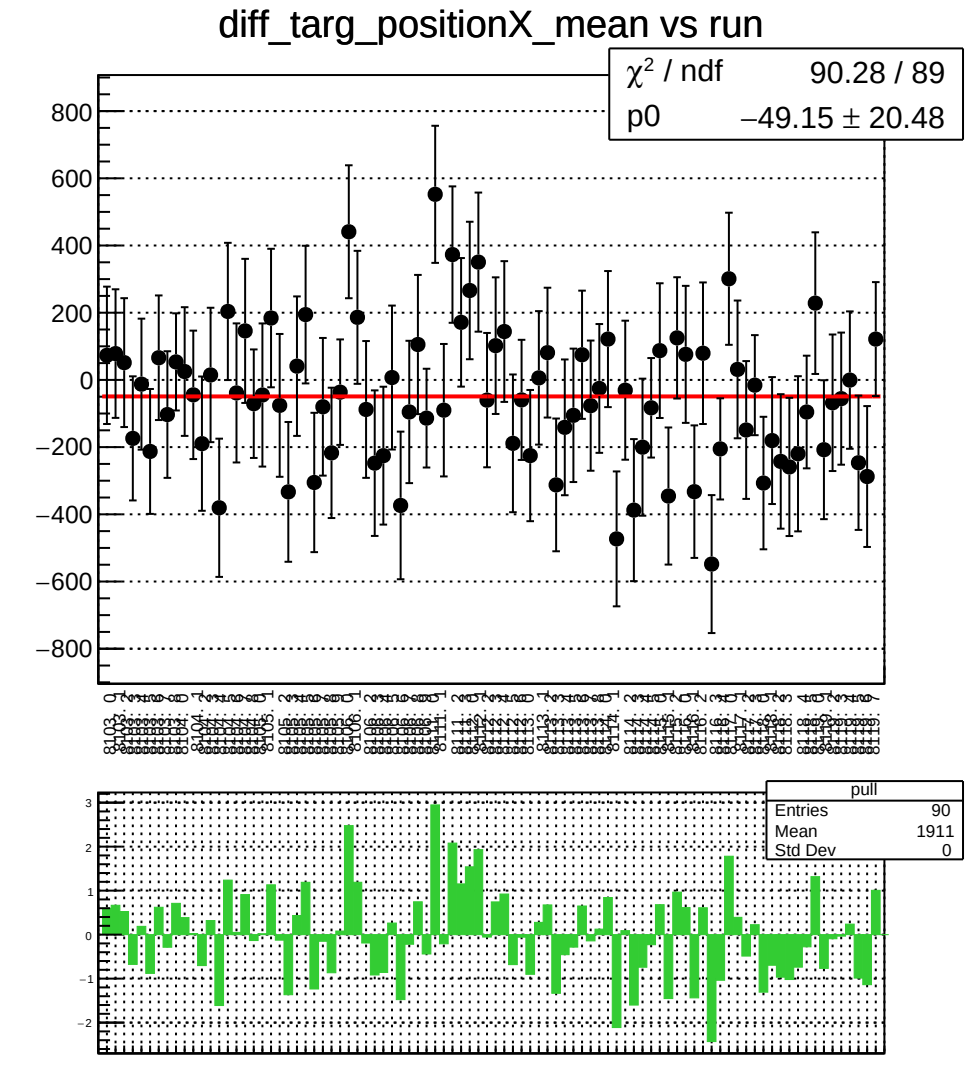

pull1D
Entries 90
Mean 0.01416
Std Dev 0.9256

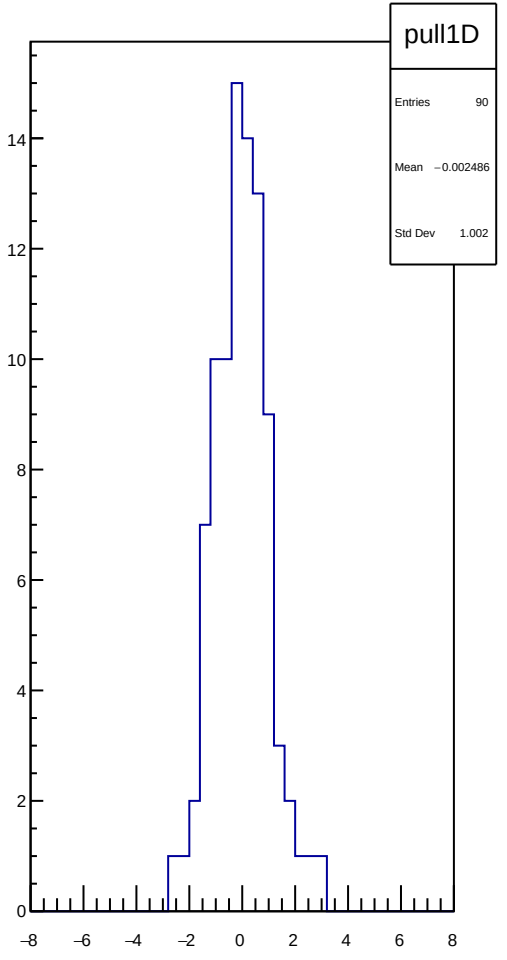

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 612.1 / 89
p0 760.9 ± 0.5738
810
800
790
780
770
760
750
740
730

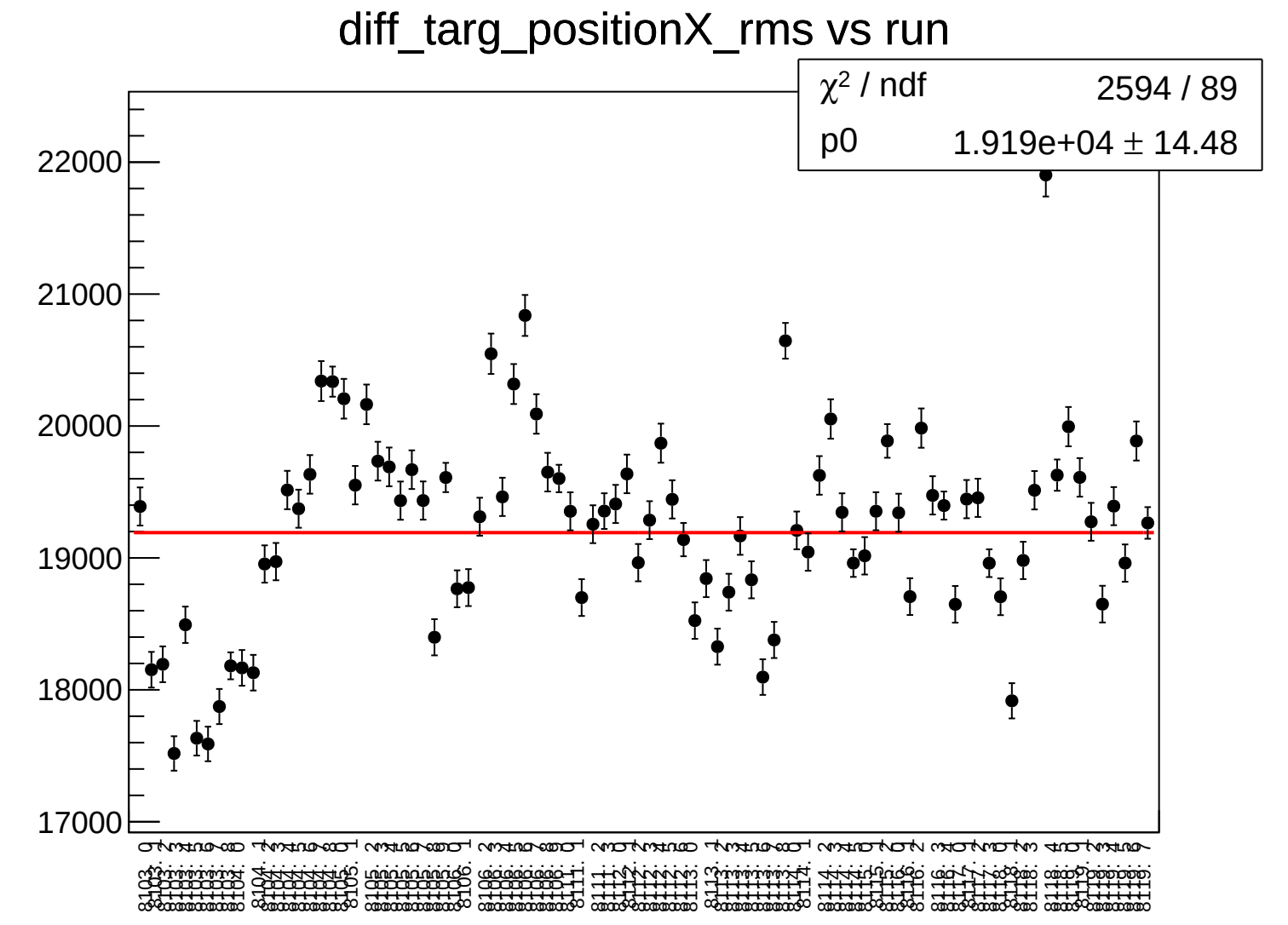

diff_dispE_bpm12X_mean vs run
χ² / ndf 92.41 / 89
p0 0.01191 ± 0.01083
pull
Entries 90
Mean 1276
Std Dev 0

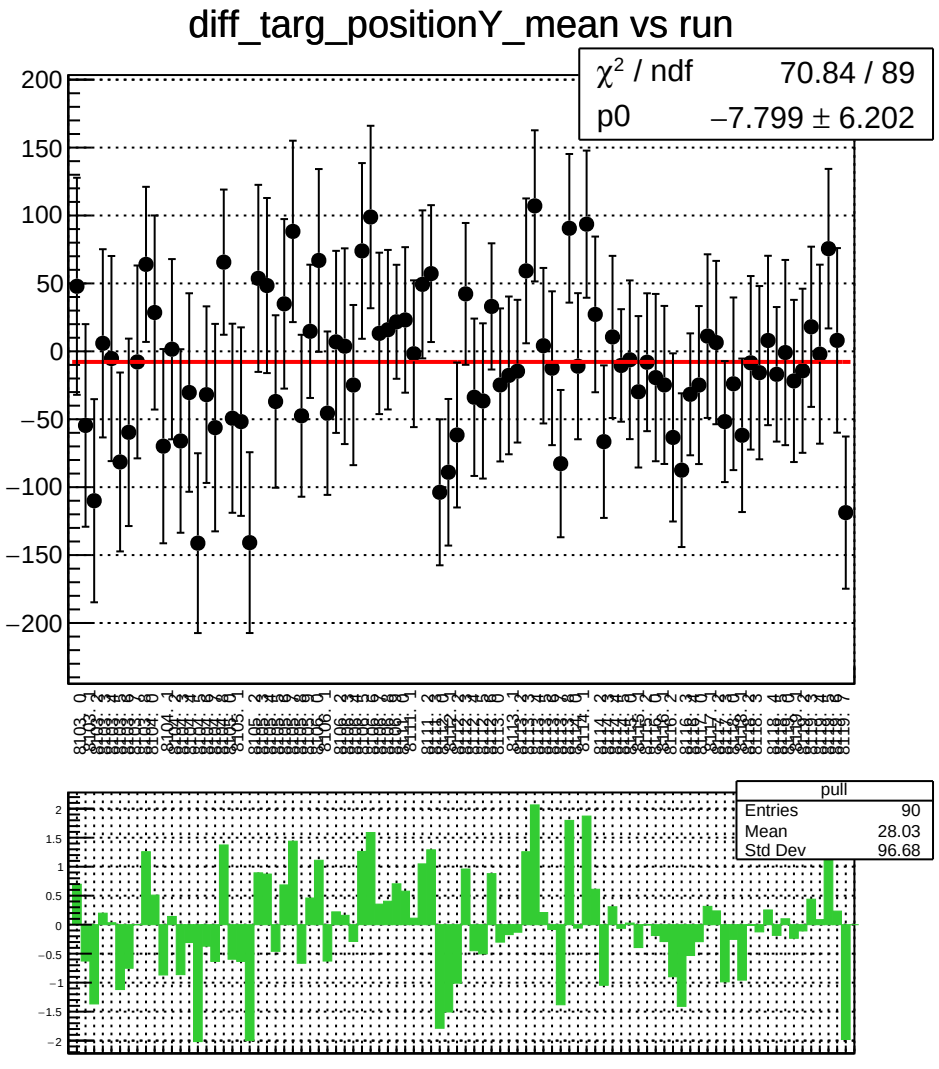

pull1D
Entries 90
Mean 0.006113
Std Dev 1.013

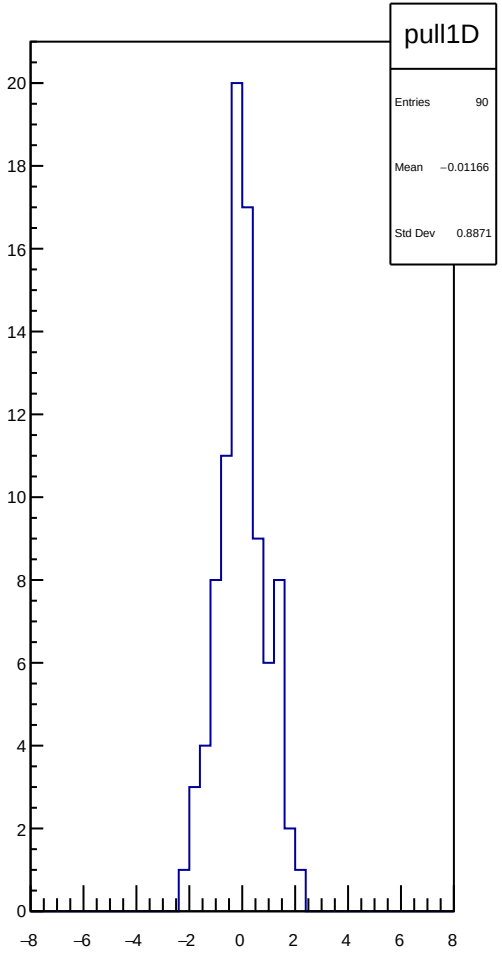

diff_dispE_bpm12X_rms vs run
χ² / ndf 2857 / 89
p0 10.15 ± 0.00766
11.5
11
10.5
10
9.5

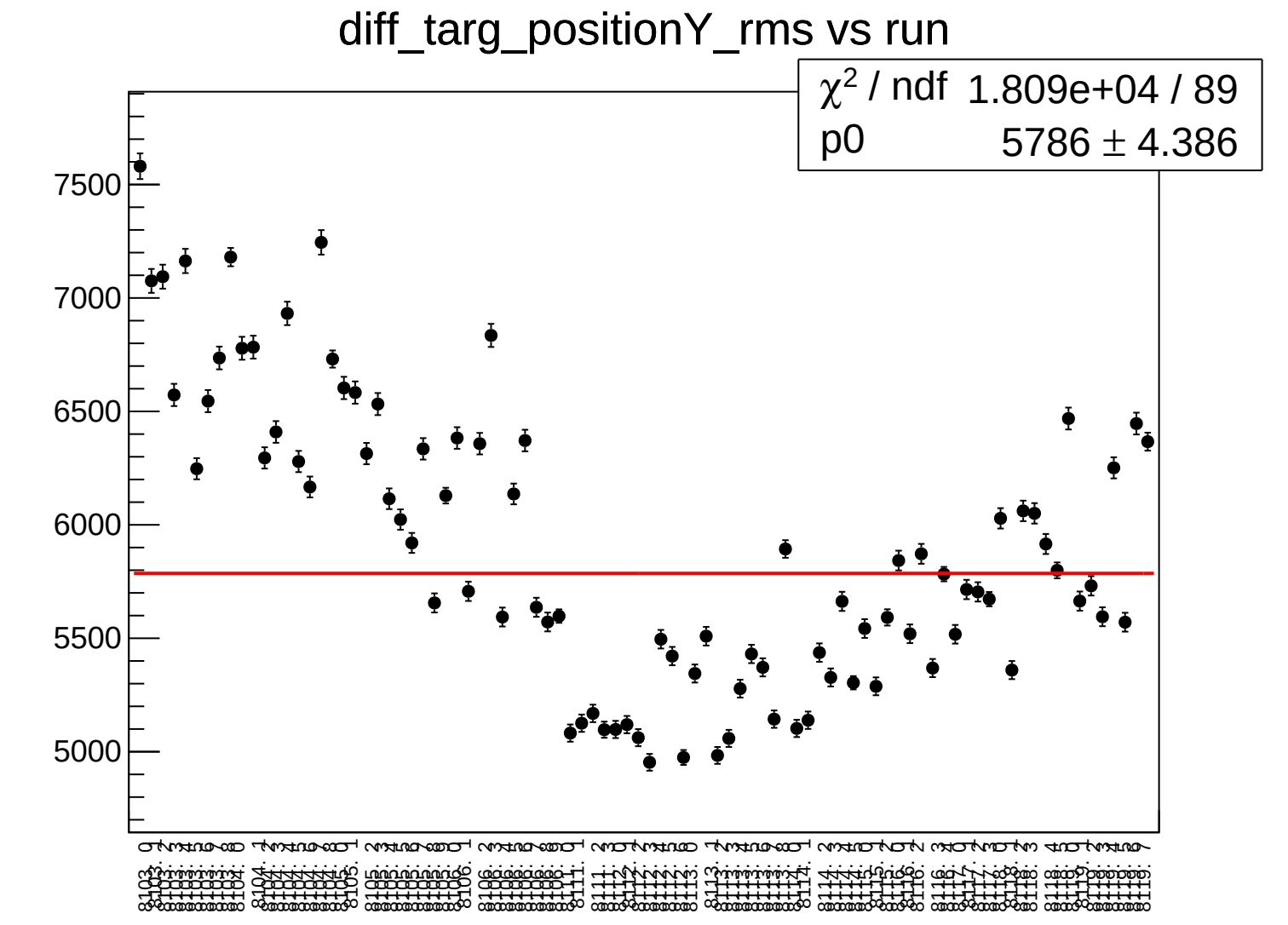

diff_targ_positionX_mean vs run
χ² / ndf 90.28 / 89
p0 −49.15 ± 20.48
pull
Entries 90
Mean 1911
Std Dev 0

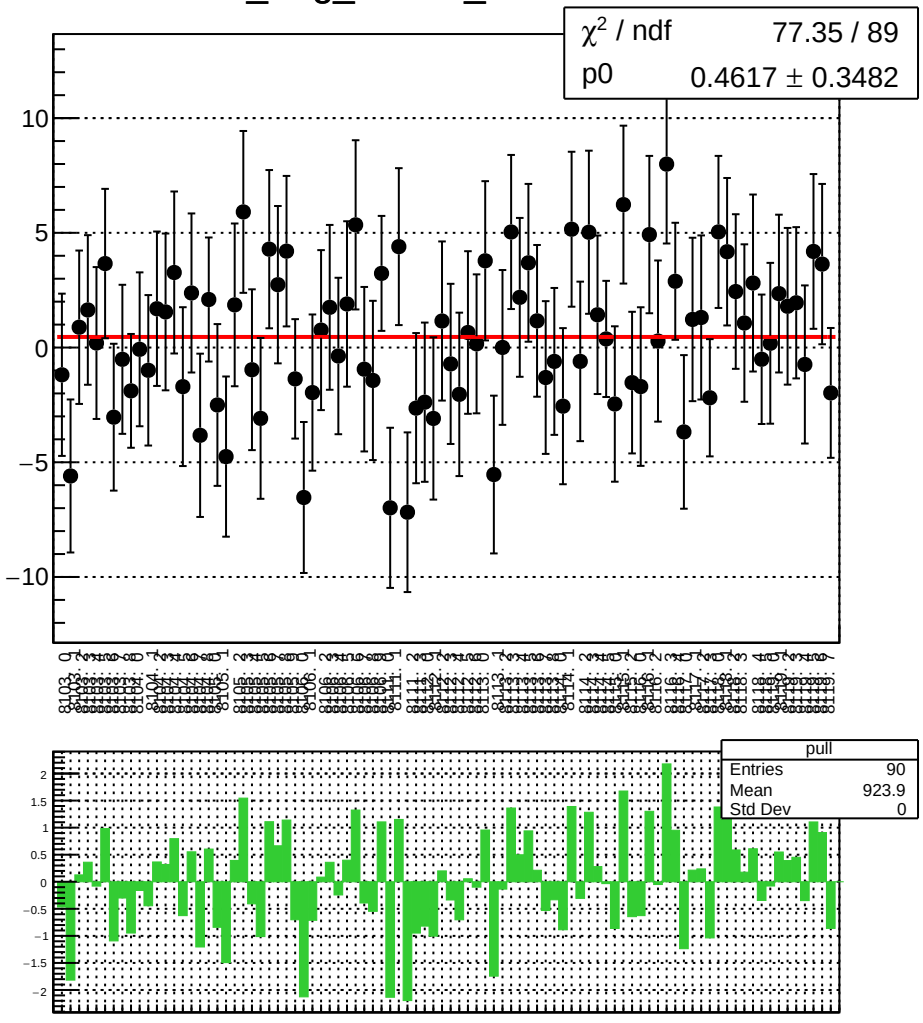

pull1D
Entries 90
Mean −0.002486
Std Dev 1.002

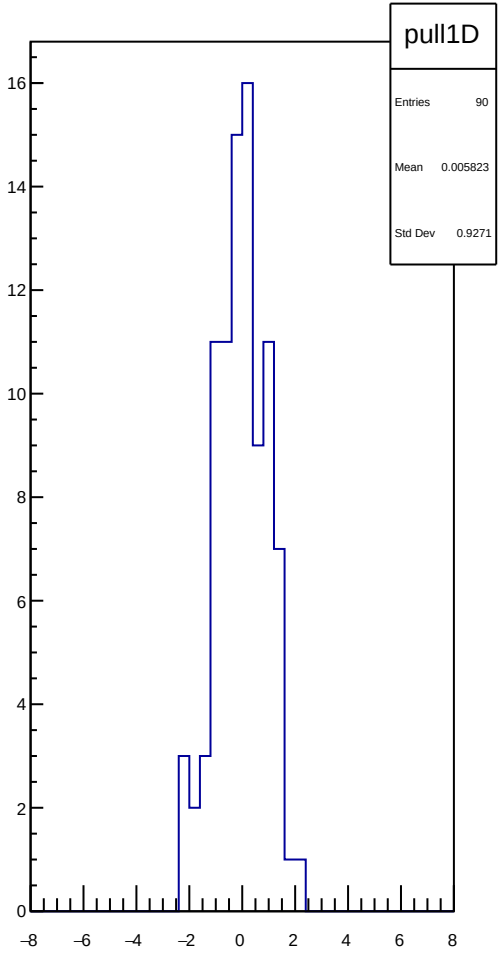

diff_targ_positionX_rms vs run
χ² / ndf 2594 / 89
p0 1.919e+04 ± 14.48
22000
21000
20000
19000
18000
17000

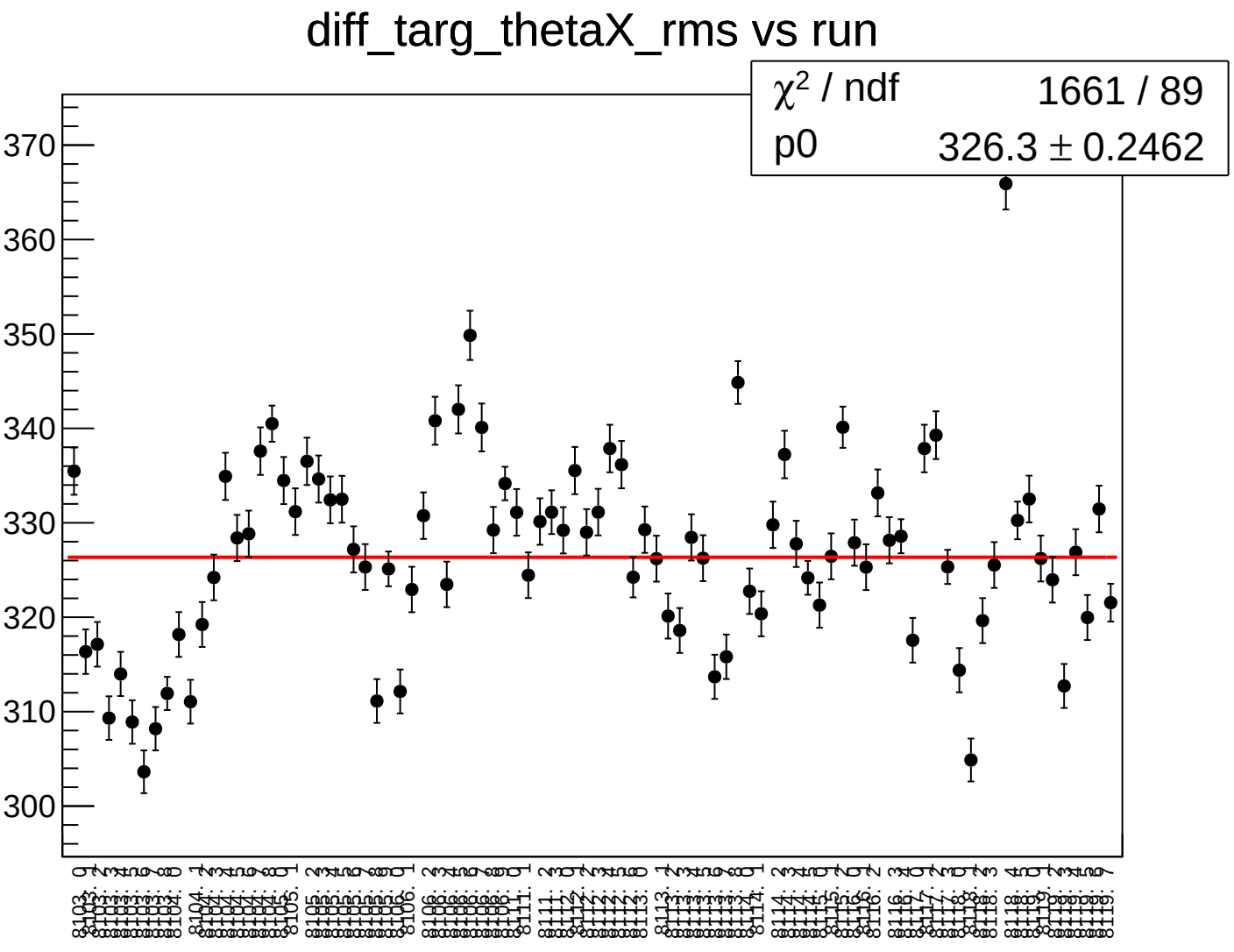

diff_targ_positionY_mean vs run
χ² / ndf 70.84 / 89
p0 −7.799 ± 6.202
pull
Entries 90
Mean 28.03
Std Dev 96.68

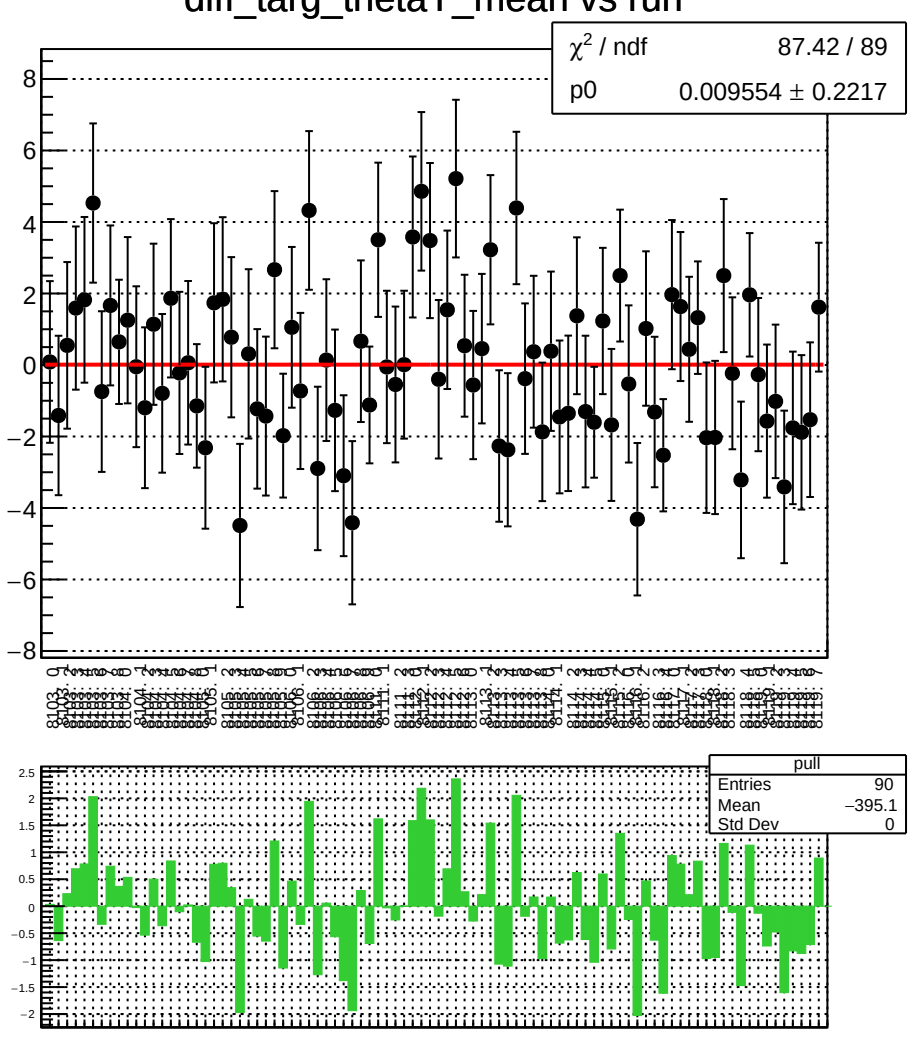

pull1D
Entries 90
Mean −0.01166
Std Dev 0.8871

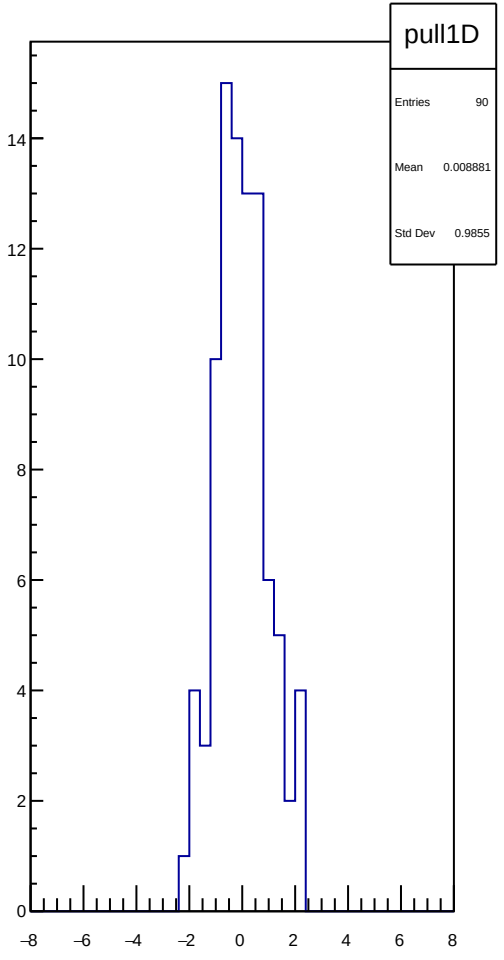

diff_targ_positionY_rms vs run
χ² / ndf 1.809e+04 / 89
p0 5786 ± 4.386
7500
7000
6500
6000
5500
5000

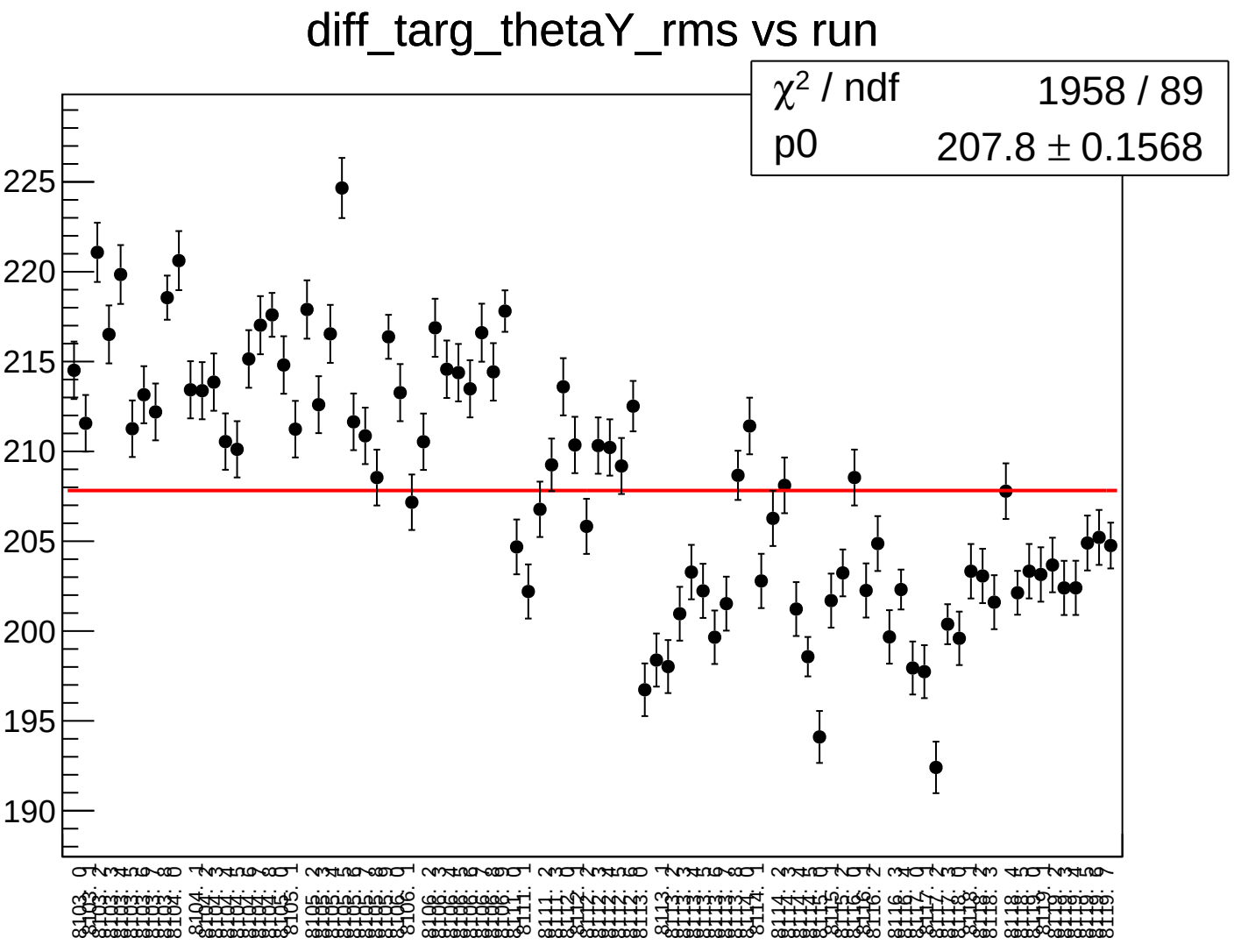

diff_targ_thetaX_mean vs run
χ² / ndf 77.35 / 89
p0 0.4617 ± 0.3482
pull
Entries 90
Mean 923.9
Std Dev 0

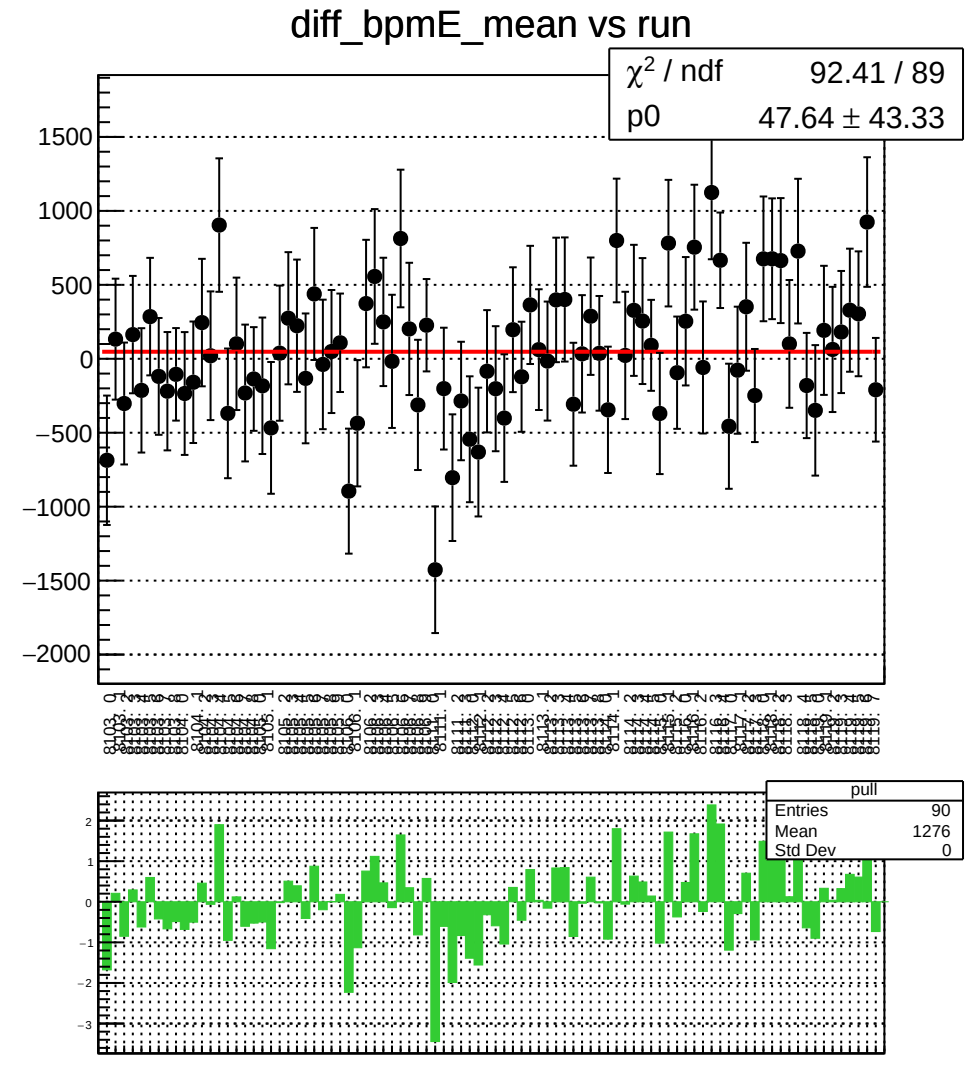

pull1D
Entries 90
Mean 0.005823
Std Dev 0.9271

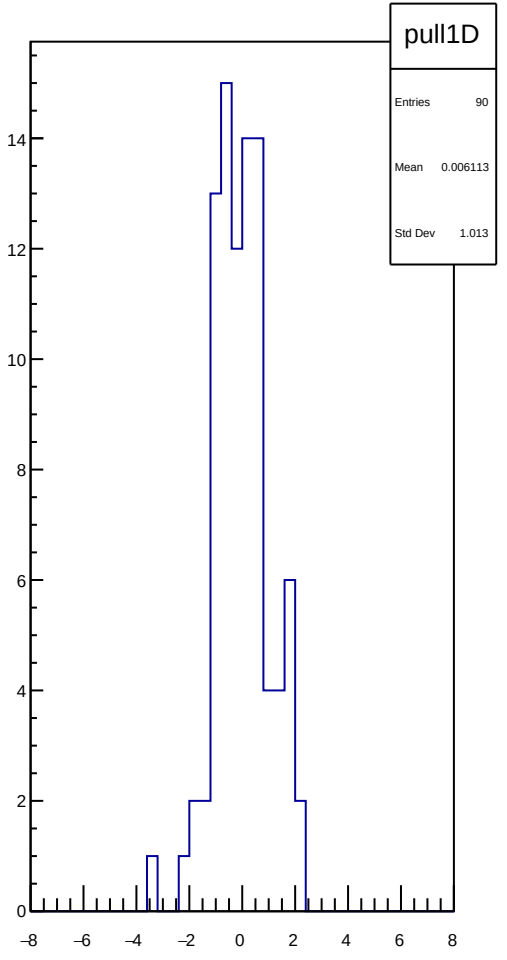

diff_targ_thetaX_rms vs run
χ² / ndf 1661 / 89
p0 326.3 ± 0.2462
370
360
350
340
330
320
310
300

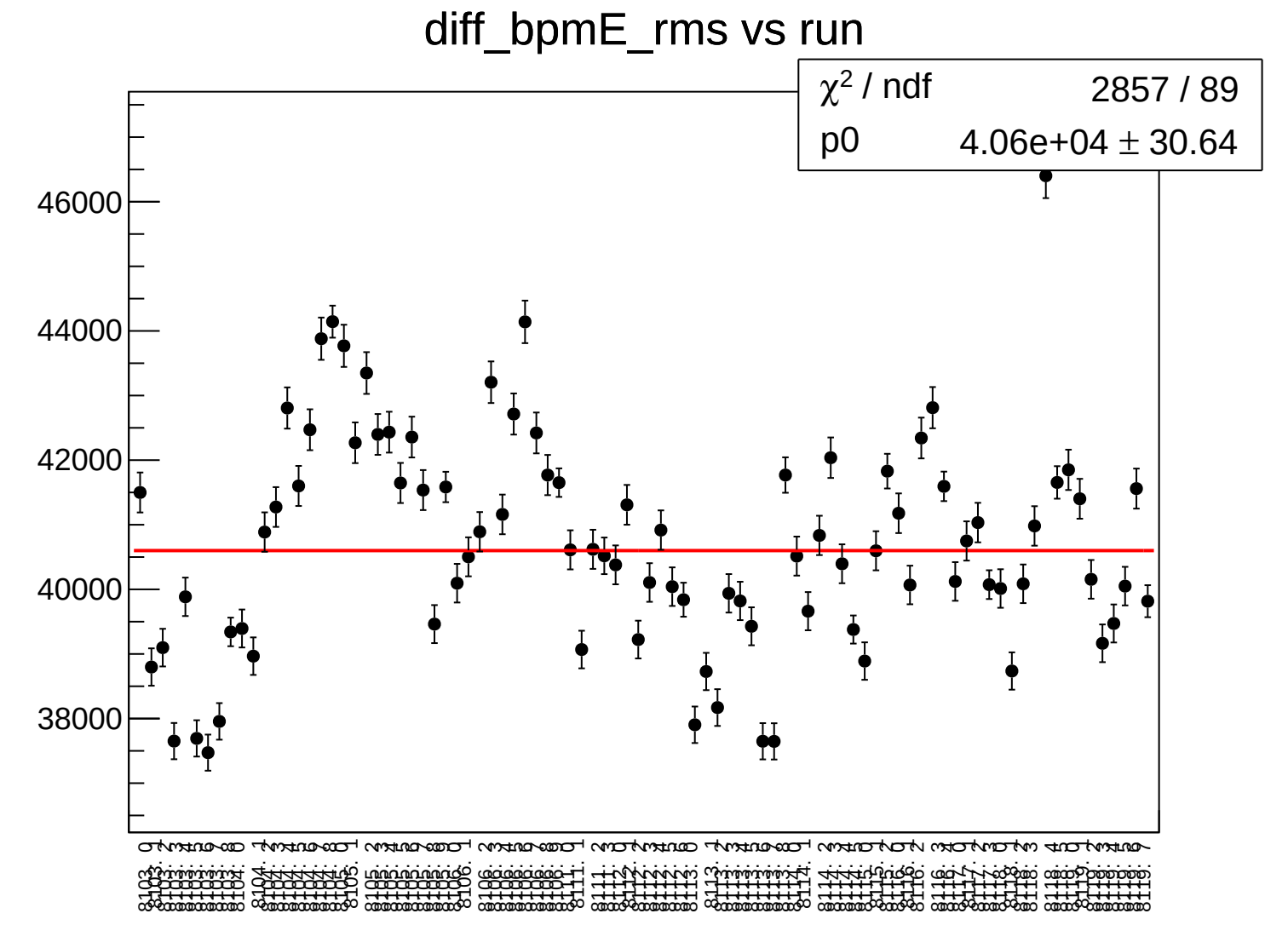

diff_targ_thetaY_mean vs run
χ² / ndf 87.42 / 89
p0 0.009554 ± 0.2217
pull
Entries 90
Mean −395.1
Std Dev 0

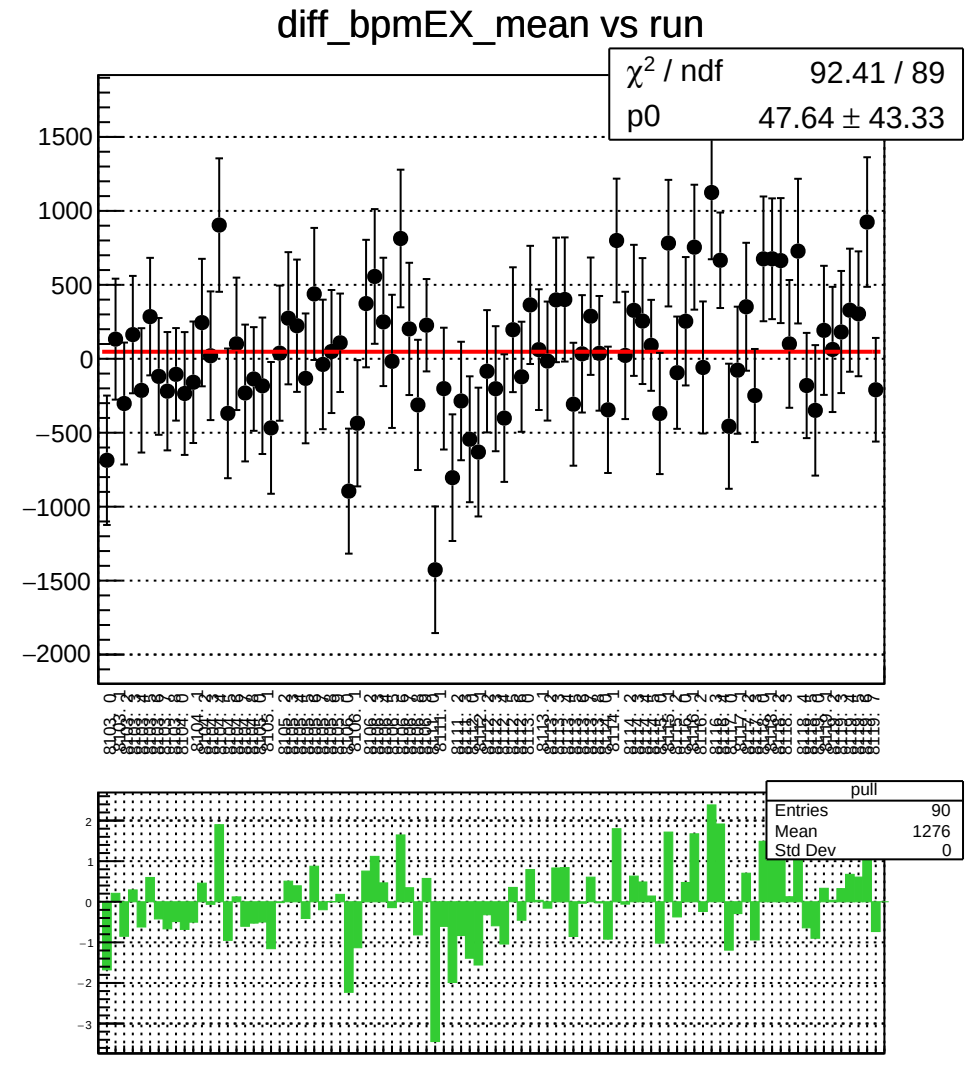

pull1D
Entries 90
Mean 0.008881
Std Dev 0.9855

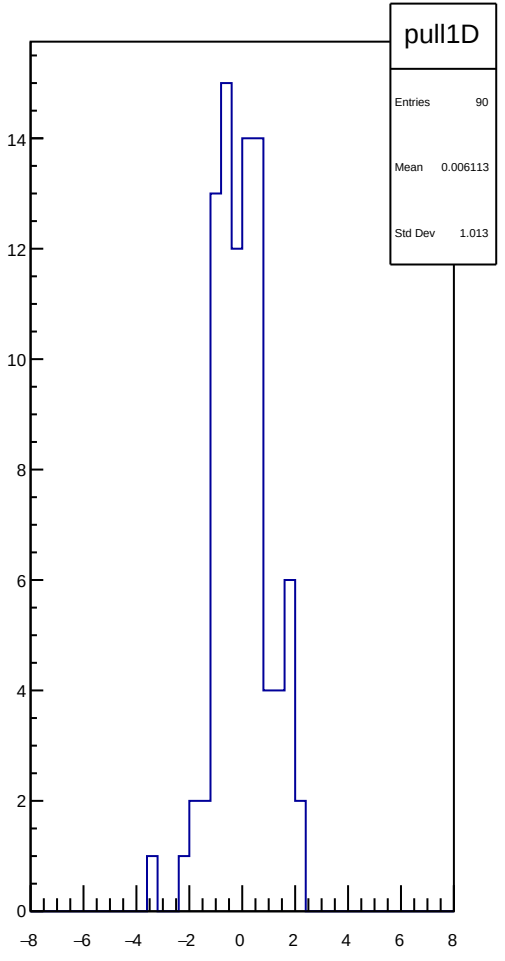

diff_targ_thetaY_rms vs run
χ² / ndf 1958 / 89
p0 207.8 ± 0.1568
225
220
215
210
205
200
195
190

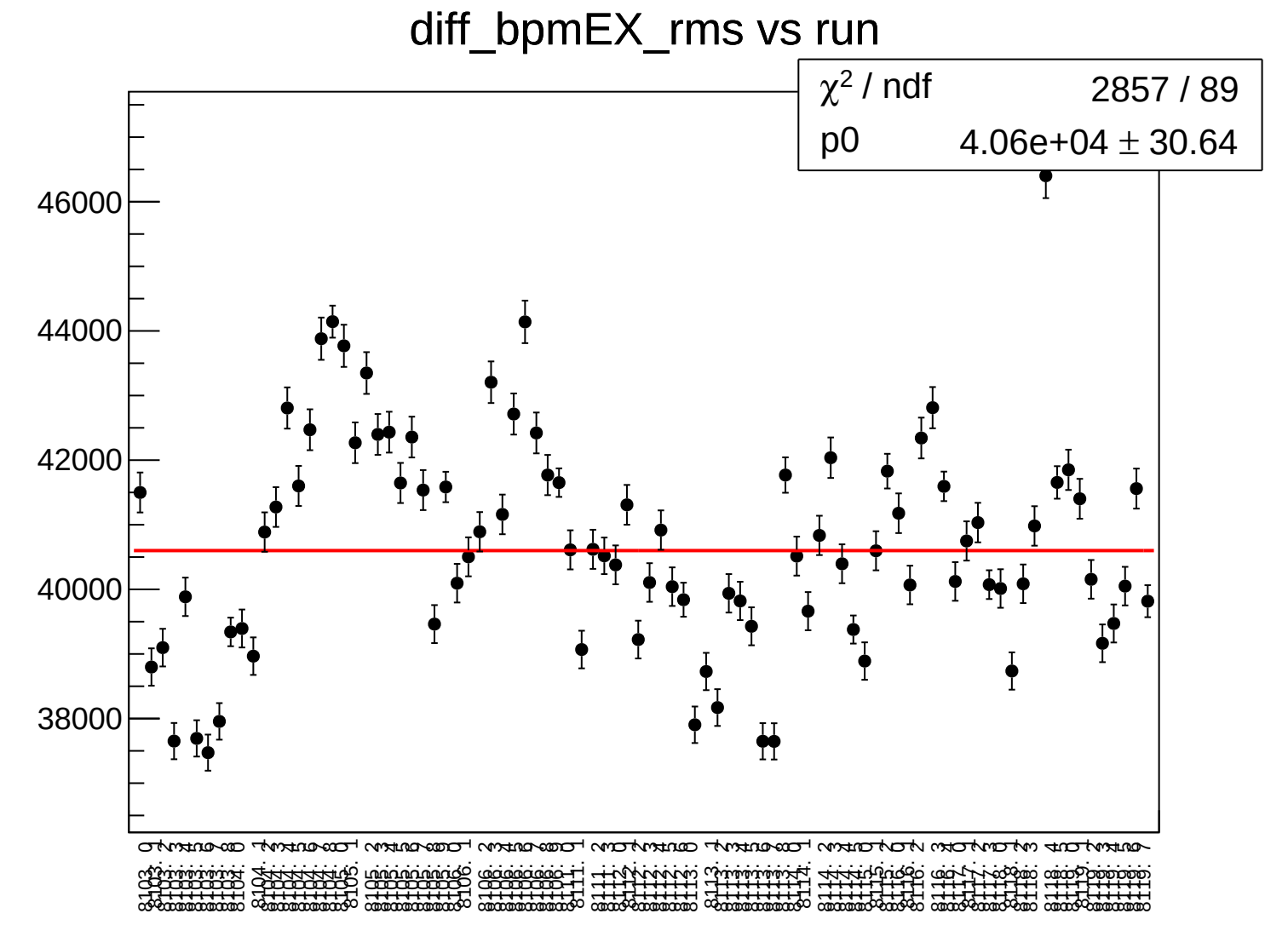

diff_bpmE_mean vs run
χ² / ndf 92.41 / 89
p0 47.64 ± 43.33
pull
Entries 90
Mean 1276
Std Dev 0

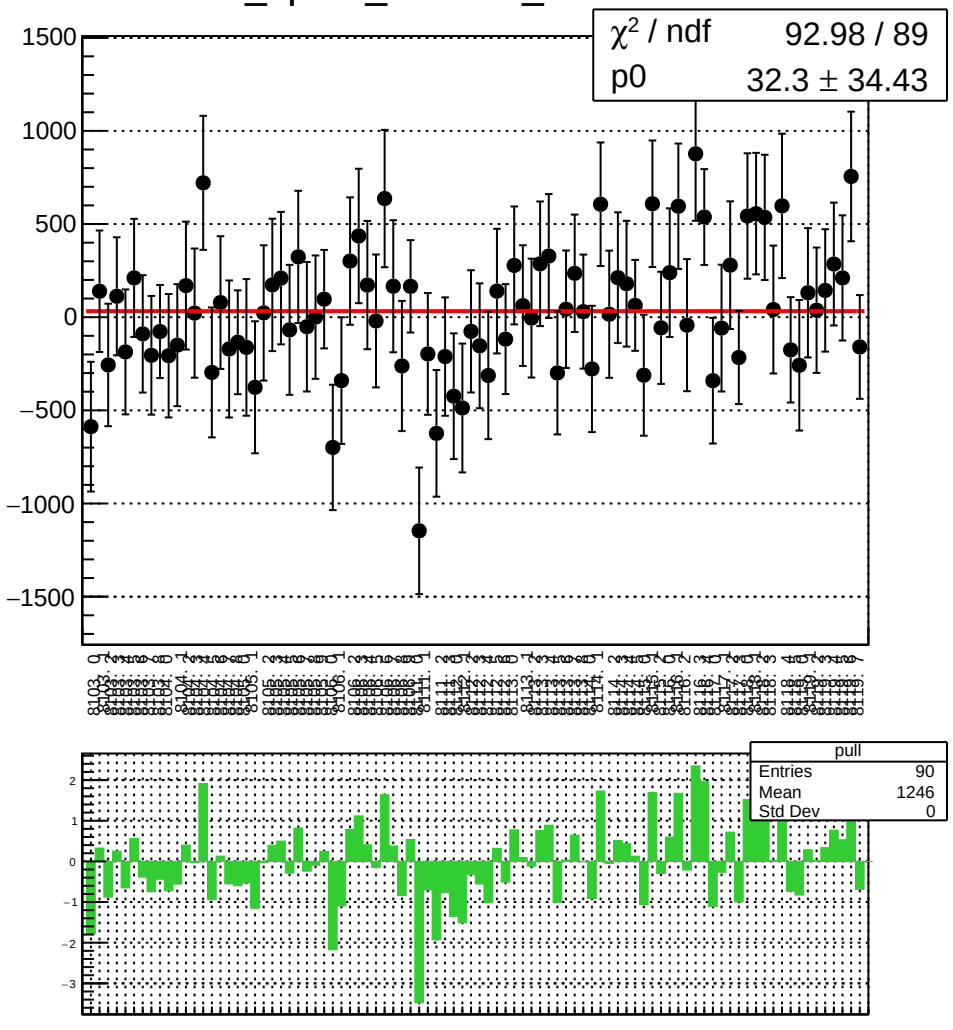

pull1D
Entries 90
Mean 0.006113
Std Dev 1.013

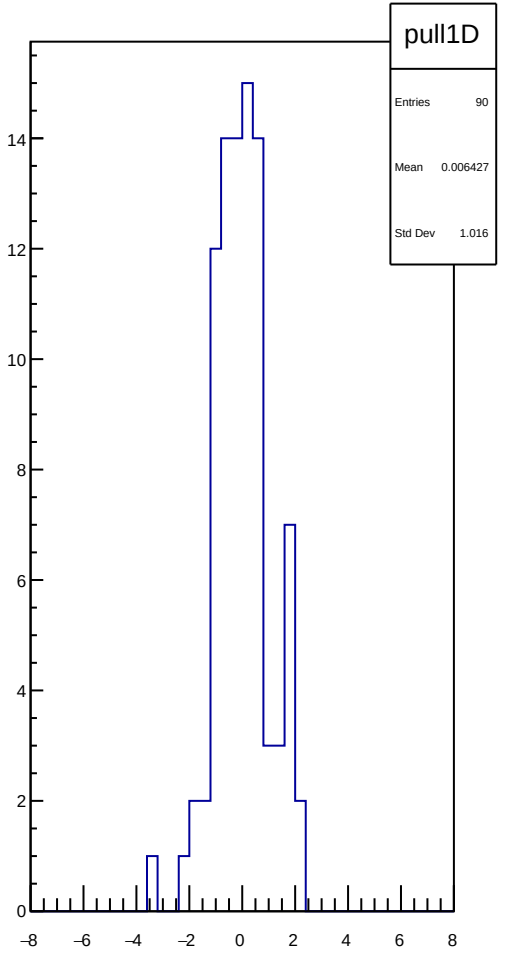

diff_bpmE_rms vs run
χ² / ndf 2857 / 89
p0 4.06e+04 ± 30.64
46000
44000
42000
40000
38000

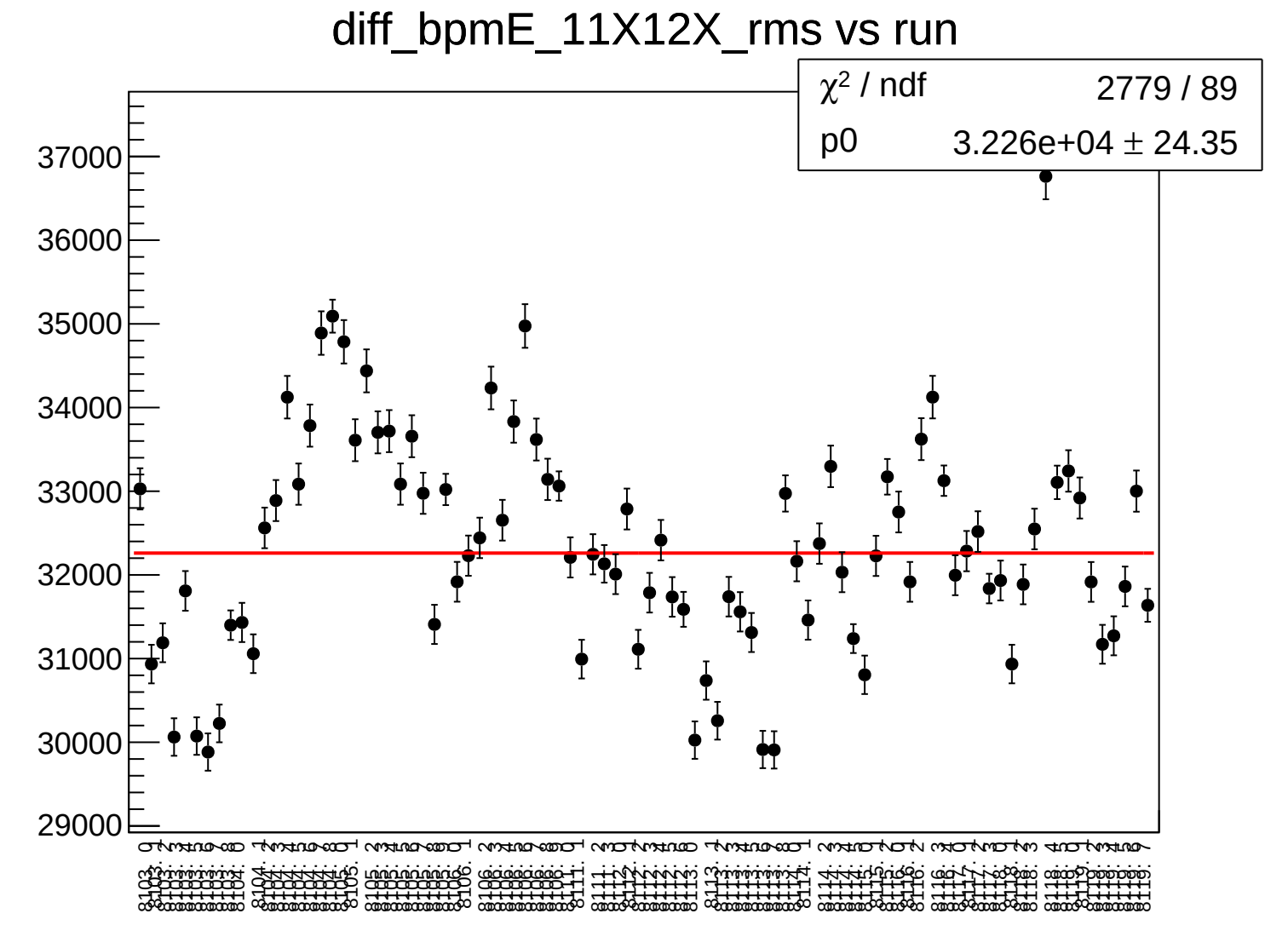

diff_bpmEX_mean vs run
χ² / ndf 92.41 / 89
p0 47.64 ± 43.33
pull
Entries 90
Mean 1276
Std Dev 0

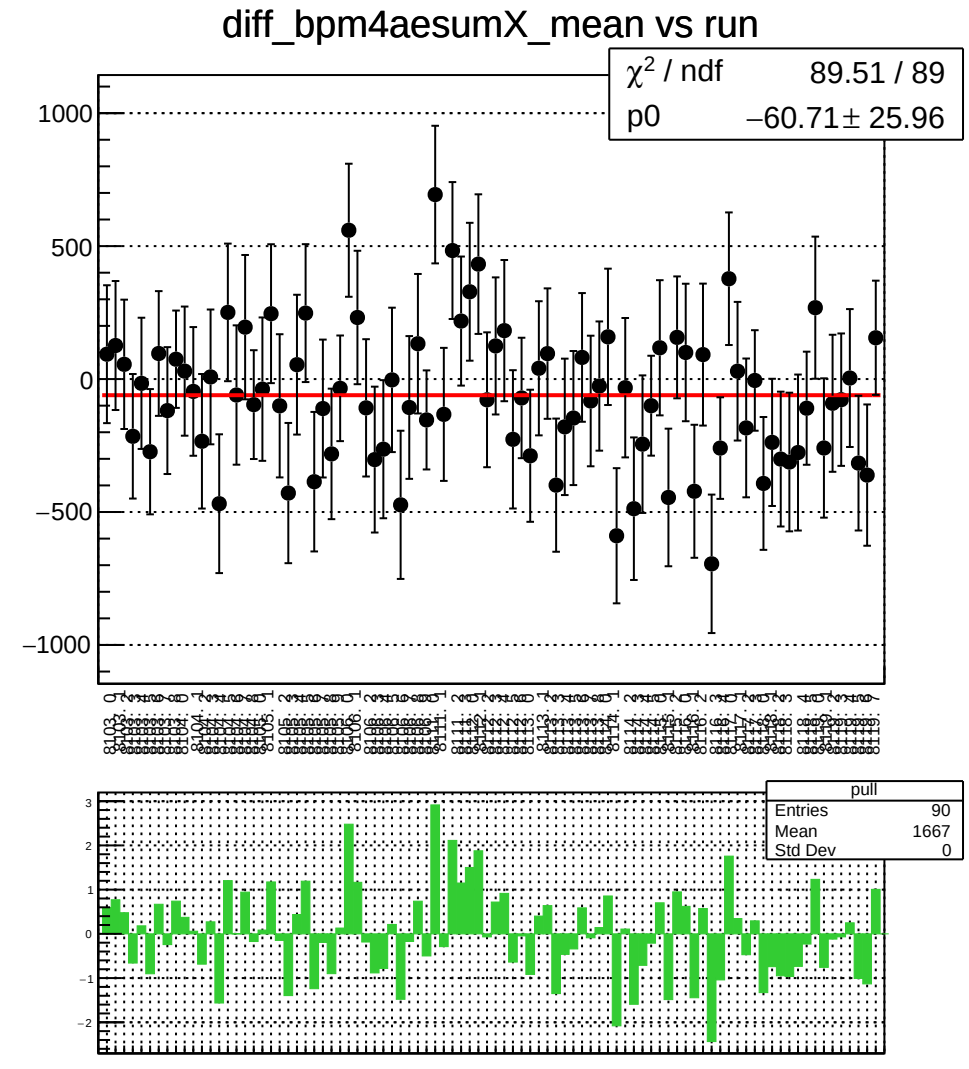

pull1D
Entries 90
Mean 0.006113
Std Dev 1.013

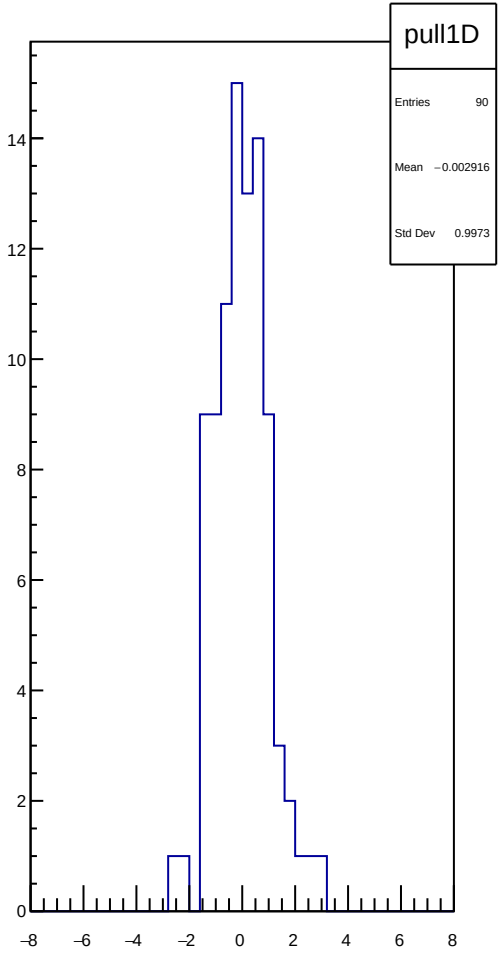

diff_bpmEX_rms vs run
χ² / ndf 2857 / 89
p0 4.06e+04 ± 30.64
46000
44000
42000
40000
38000

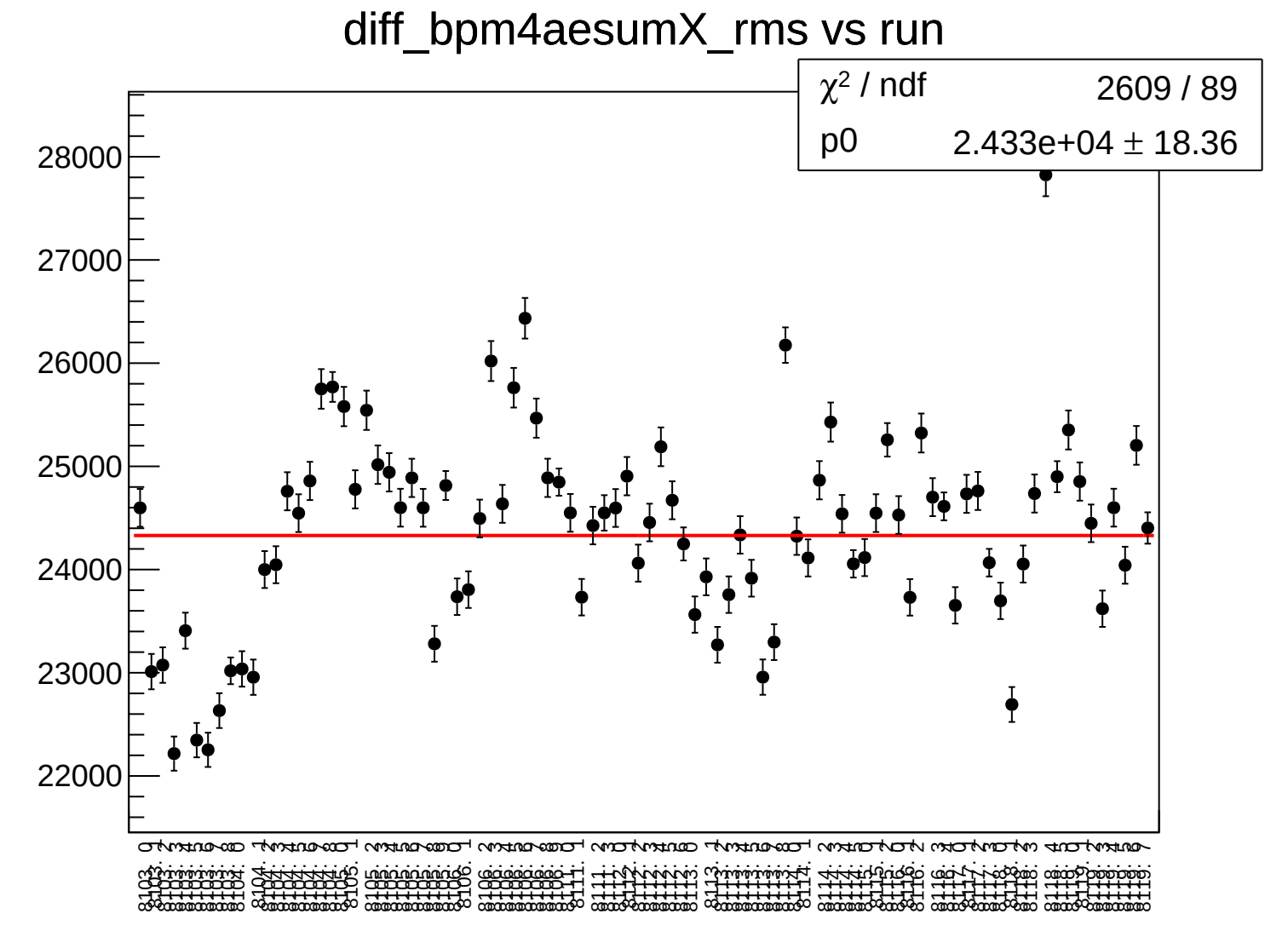

diff_bpmE_11X12X_mean vs run
χ² / ndf 92.98 / 89
p0 32.3 ± 34.43
pull
Entries 90
Mean 1246
Std Dev 0

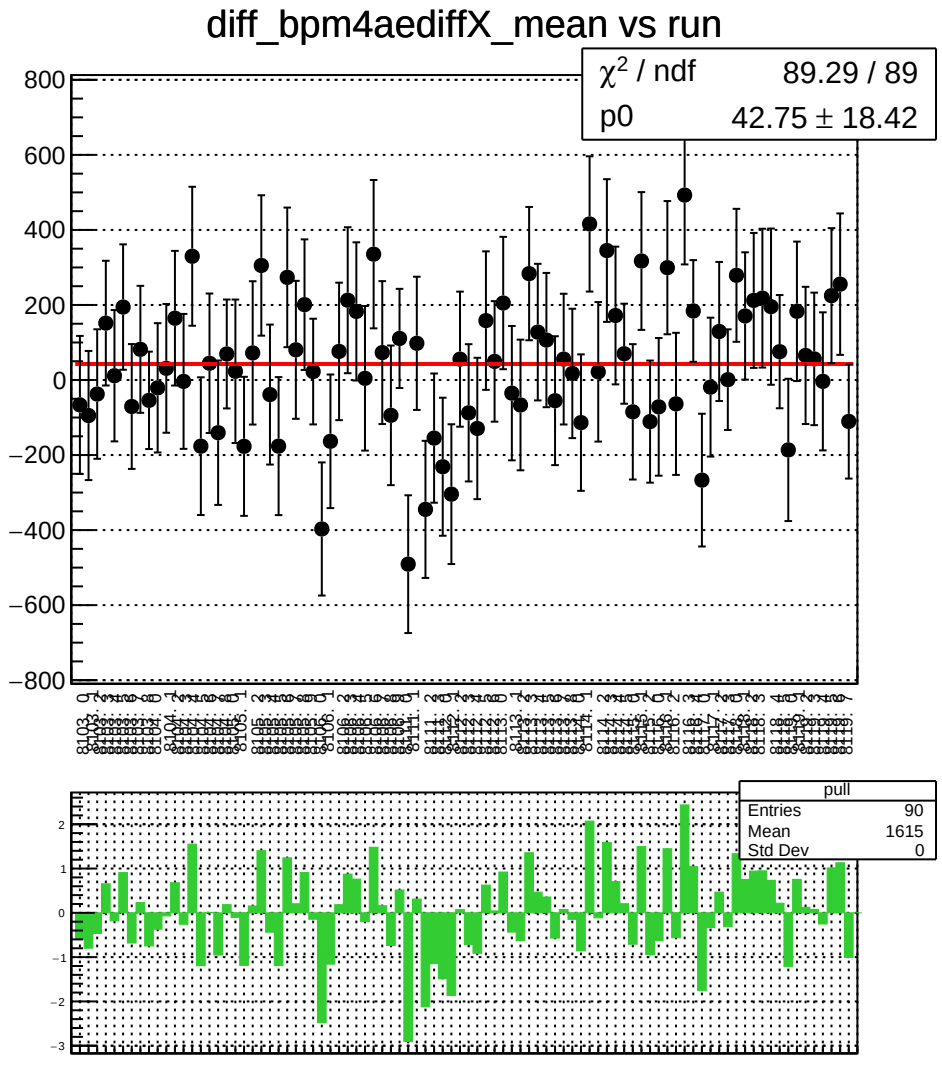

pull1D
Entries 90
Mean 0.006427
Std Dev 1.016

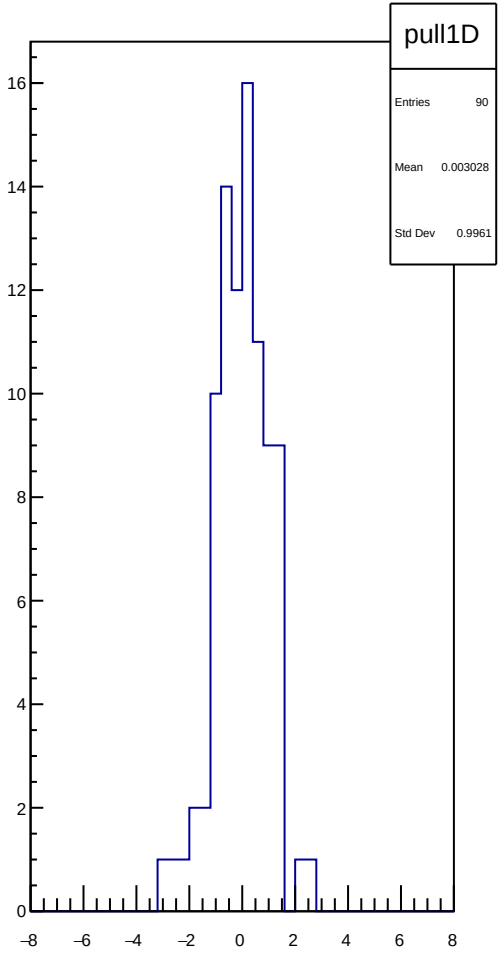

diff_bpmE_11X12X_rms vs run
χ² / ndf 2779 / 89
p0 3.226e+04 ± 24.35
37000
36000
35000
34000
33000
32000
31000
30000
29000

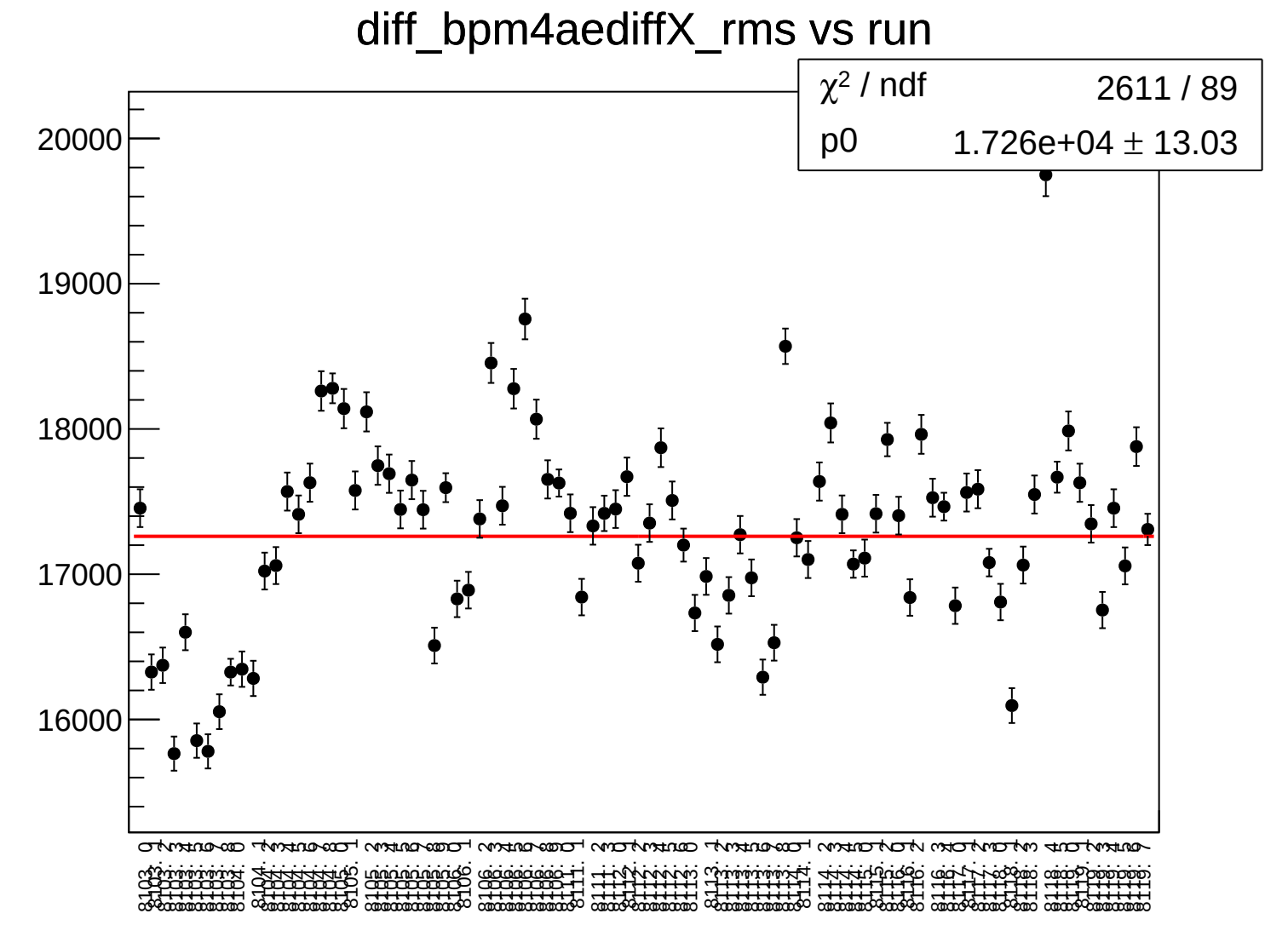

diff_bpm4aesumX_mean vs run
χ² / ndf 89.51 / 89
p0 −60.71 ± 25.96
1000
500
0
−500
−1000
pull
Entries 90
Mean 1667
Std Dev 0
3
2
1
0
−1
−2

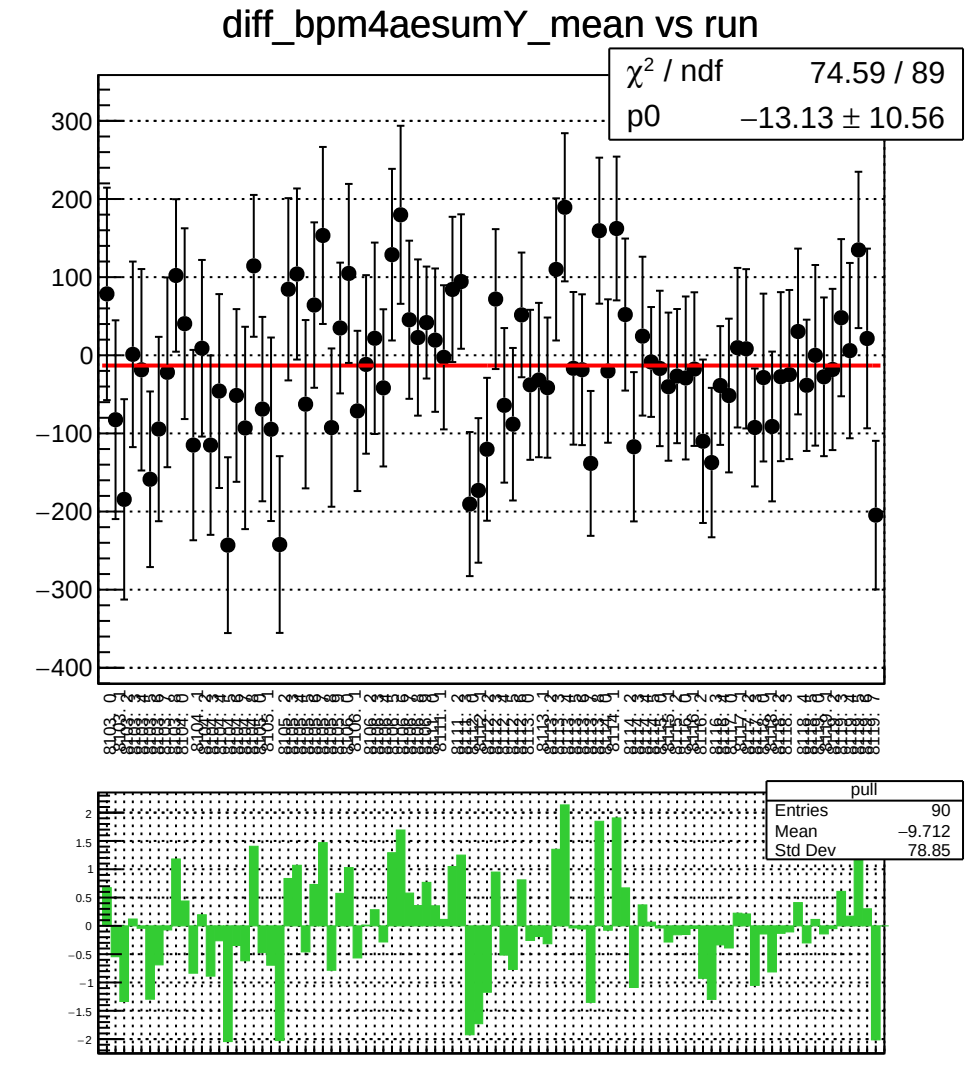

pull1D
Entries 90
Mean −0.002916
Std Dev 0.9973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

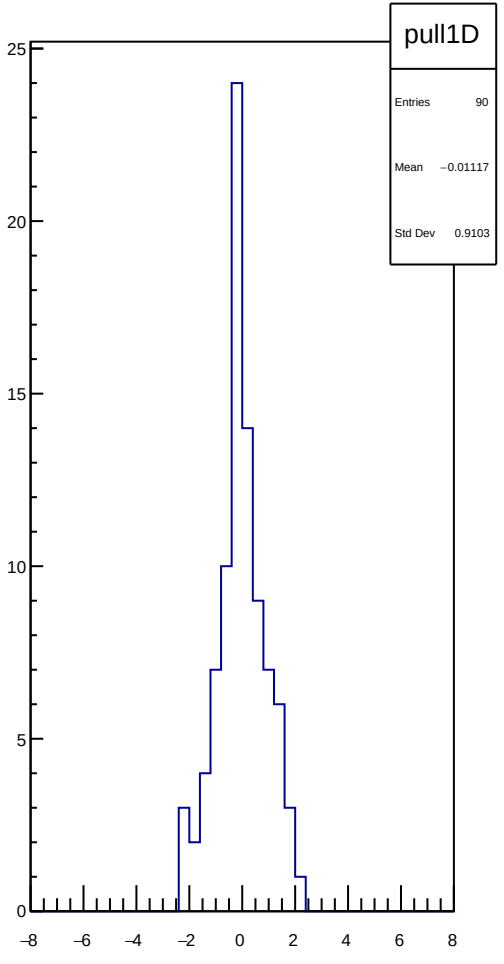

diff_bpm4aesumX_rms vs run
χ² / ndf 2609 / 89
p0 2.433e+04 ± 18.36
28000
27000
26000
25000
24000
23000
22000

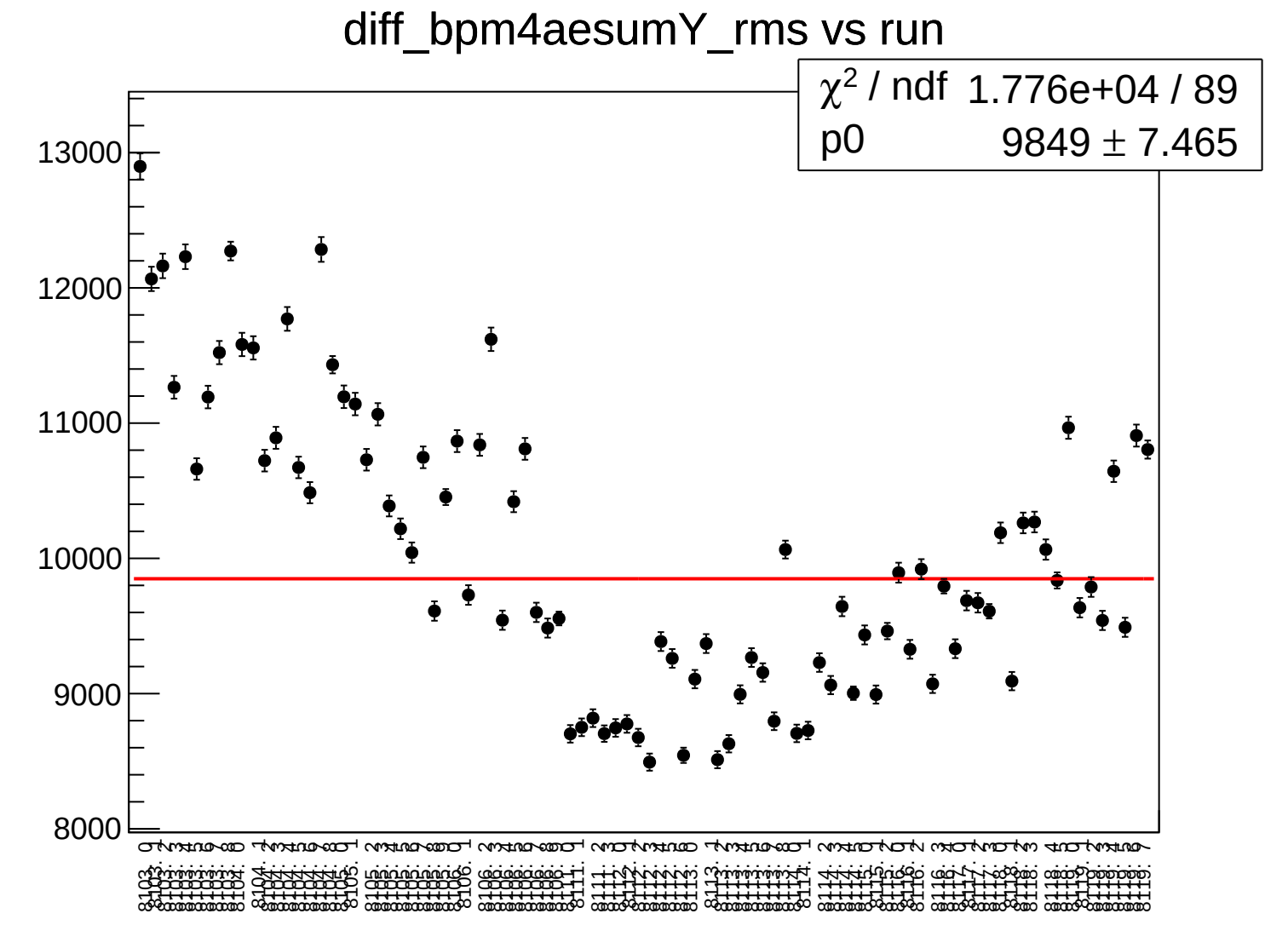

diff_bpm4aediffX_mean vs run
χ^2 / ndf 89.29 / 89
p0 42.75 ± 18.42
pull
Entries 90
Mean 1615
Std Dev 0

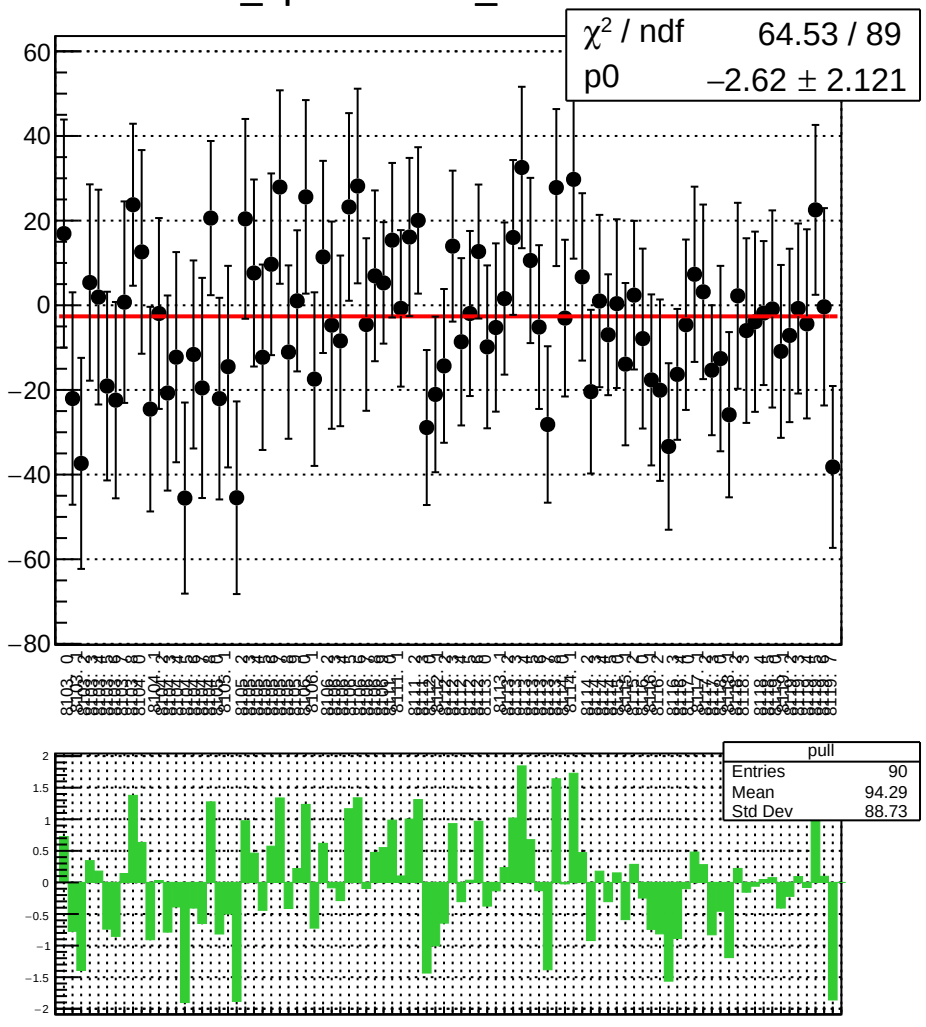

pull1D
Entries 90
Mean 0.003028
Std Dev 0.9961

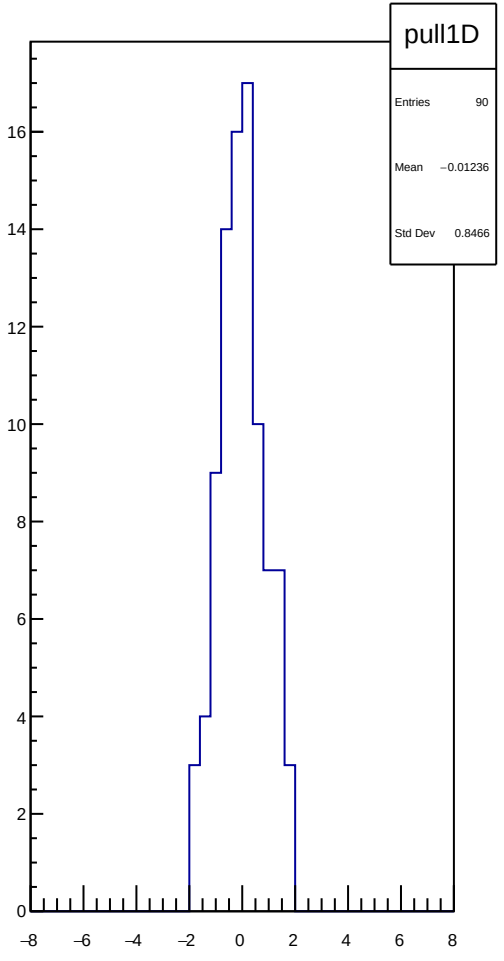

diff_bpm4aediffX_rms vs run
χ² / ndf 2611 / 89
p0 1.726e+04 ± 13.03
20000
19000
18000
17000
16000

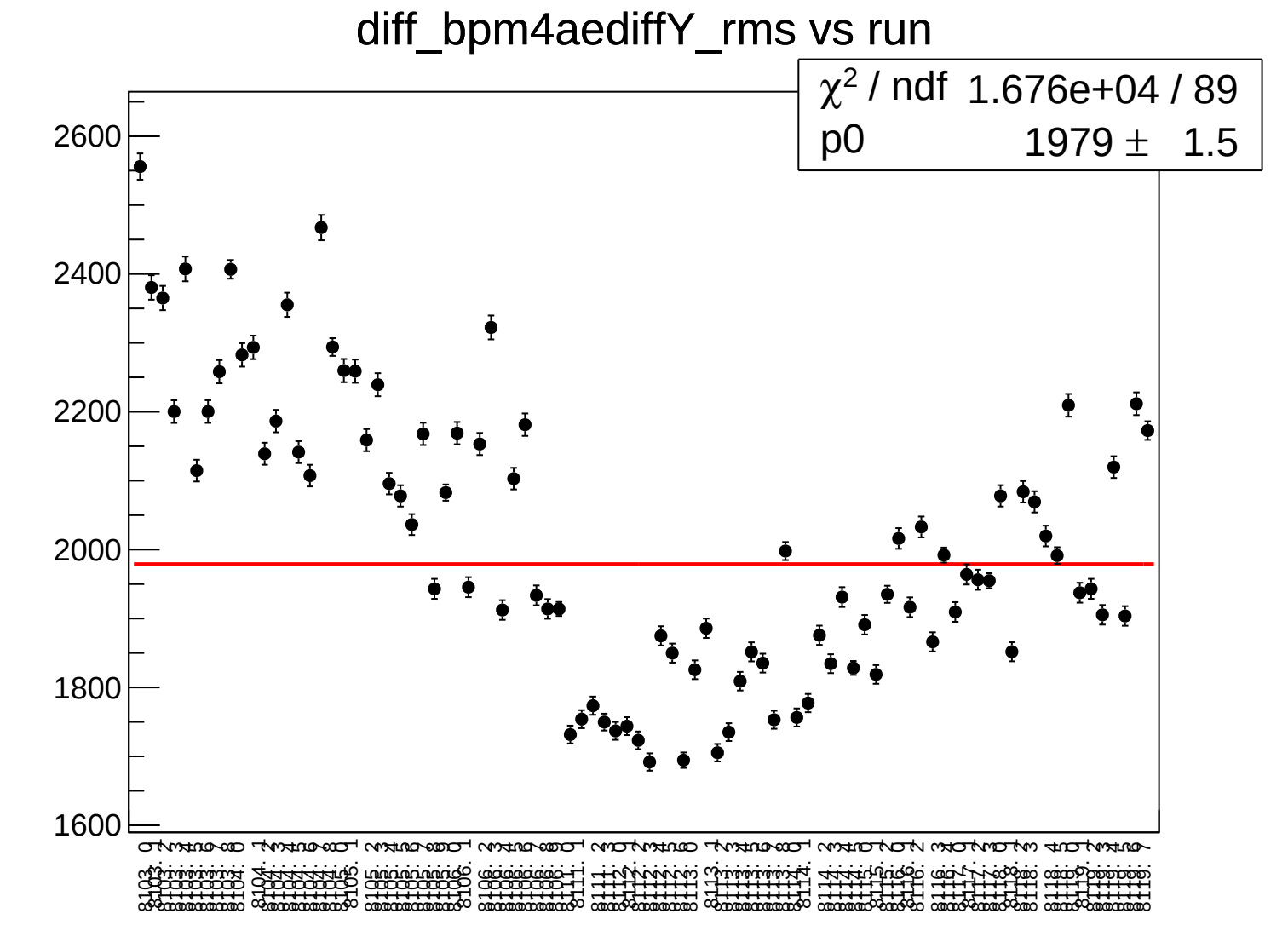

diff_bpm4aesumY_mean vs run
χ² / ndf 74.59 / 89
p0 −13.13 ± 10.56
pull
Entries 90
Mean −9.712
Std Dev 78.85

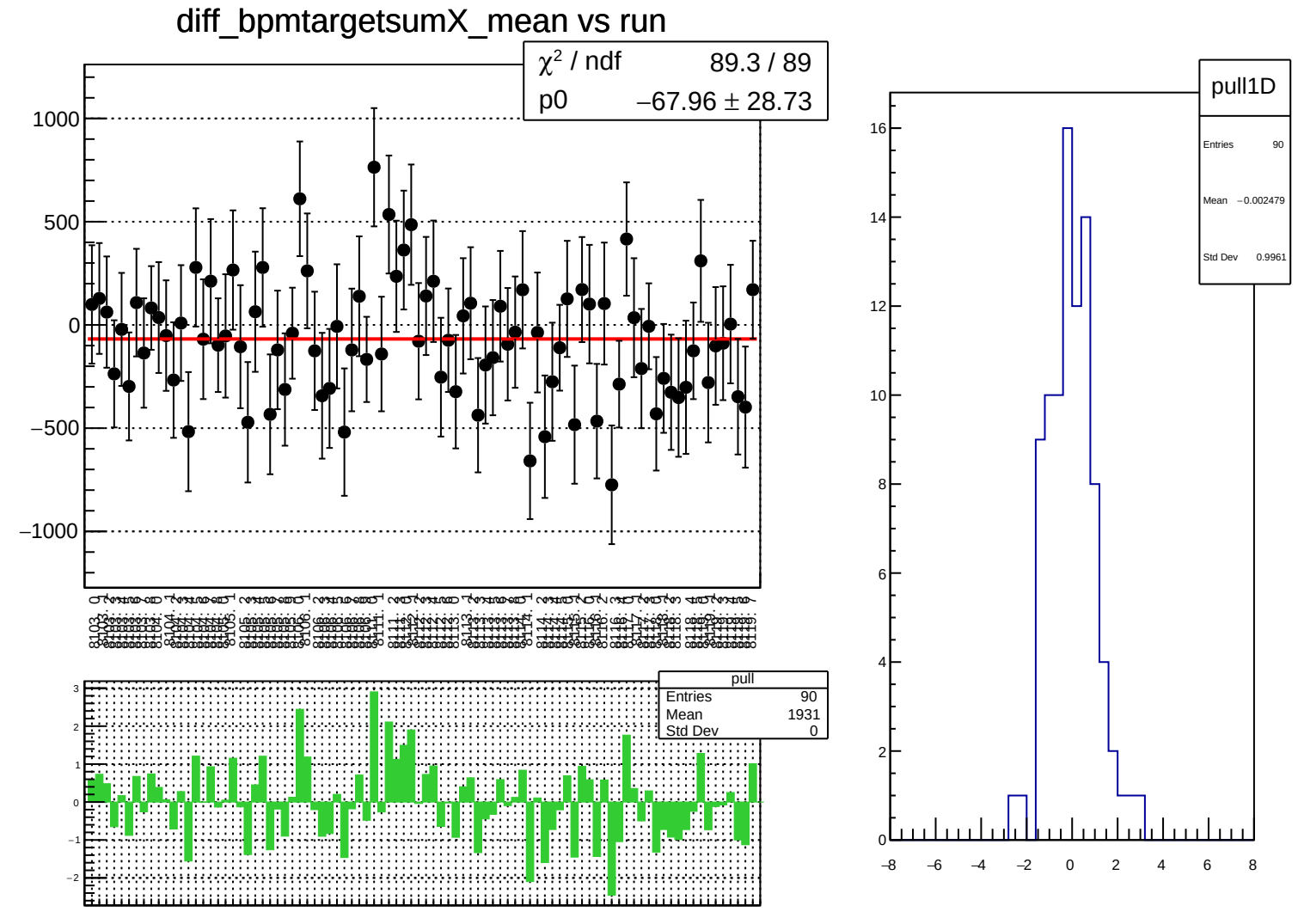

pull1D
Entries 90
Mean −0.01117
Std Dev 0.9103

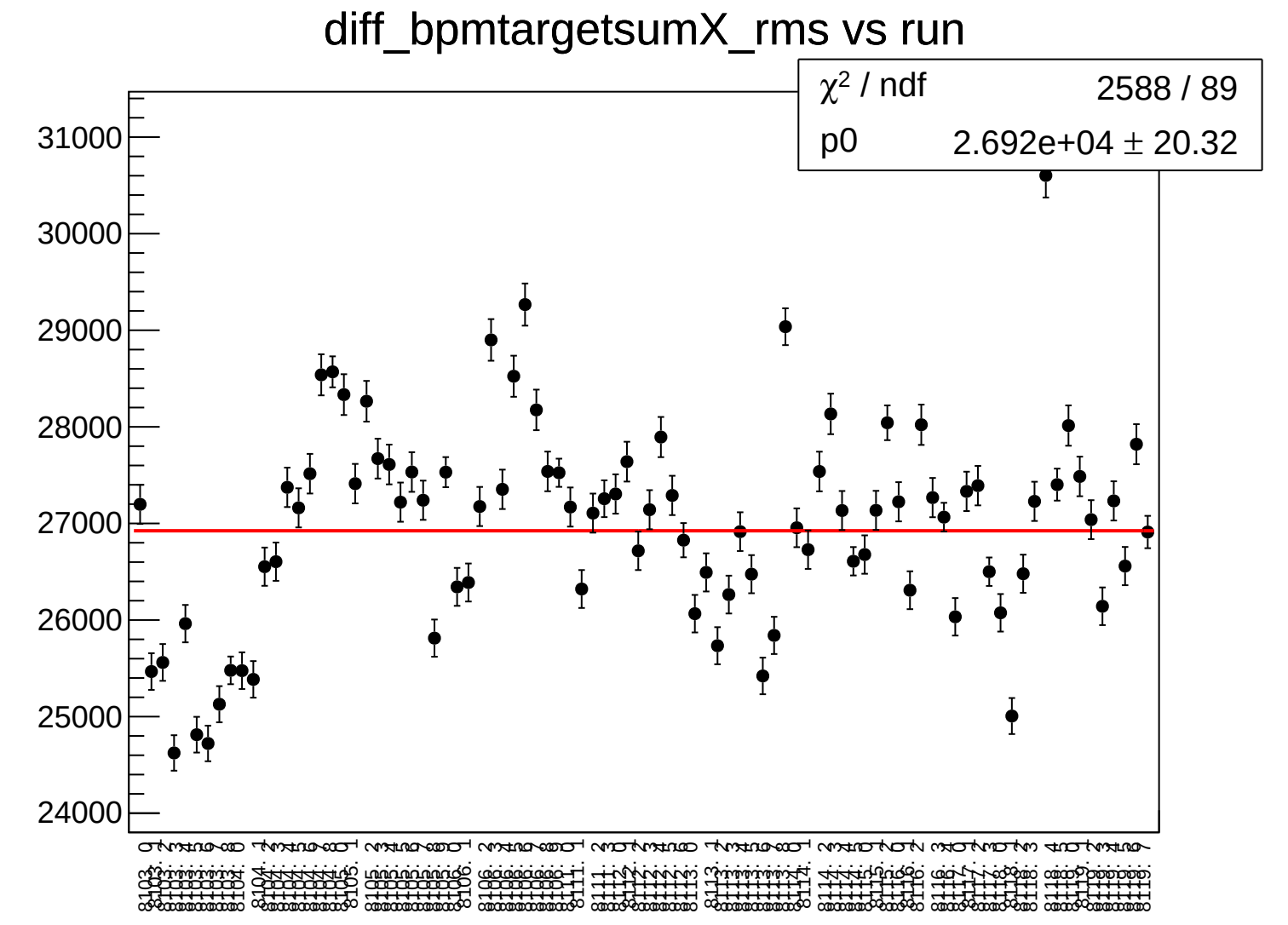

diff_bpm4aesumY_rms vs run
χ² / ndf 1.776e+04 / 89
p0 9849 ± 7.465
13000
12000
11000
10000
9000
8000

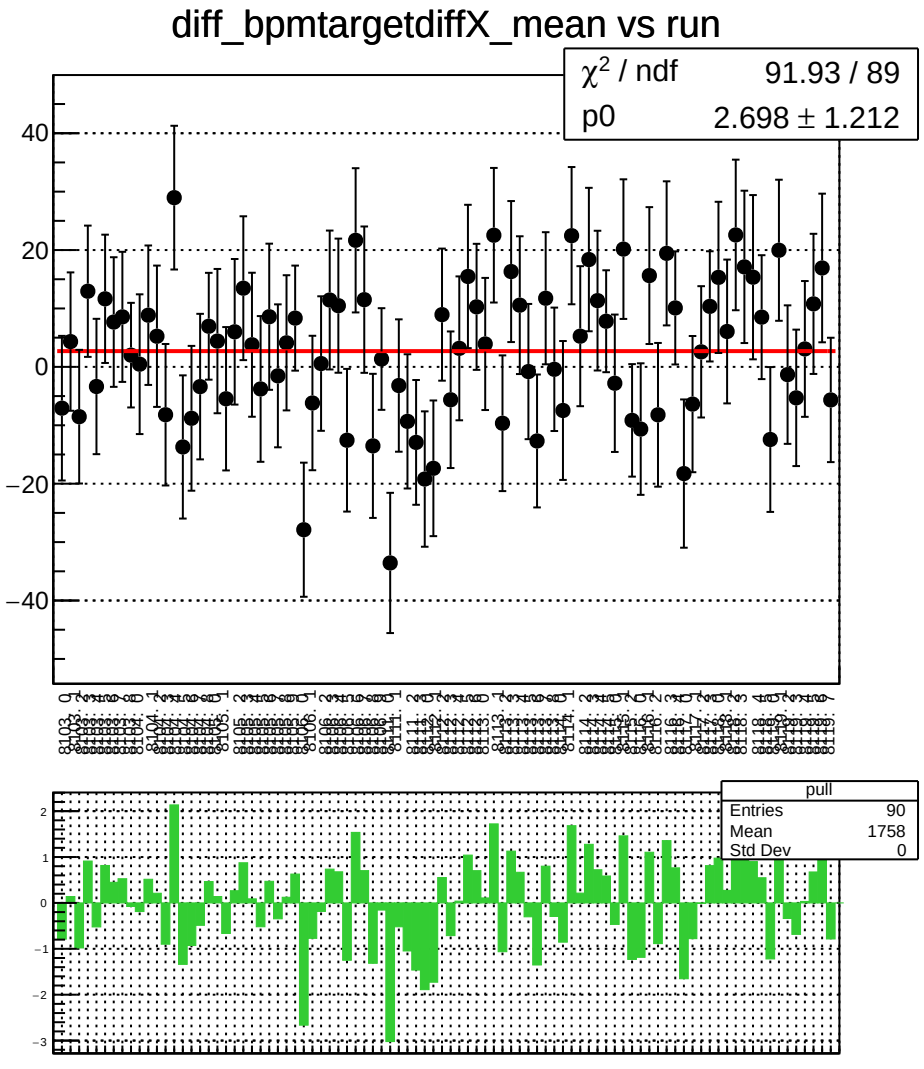

diff_bpm4aediffY_mean vs run
χ² / ndf 64.53 / 89
p0 −2.62 ± 2.121
pull
Entries 90
Mean 94.29
Std Dev 88.73

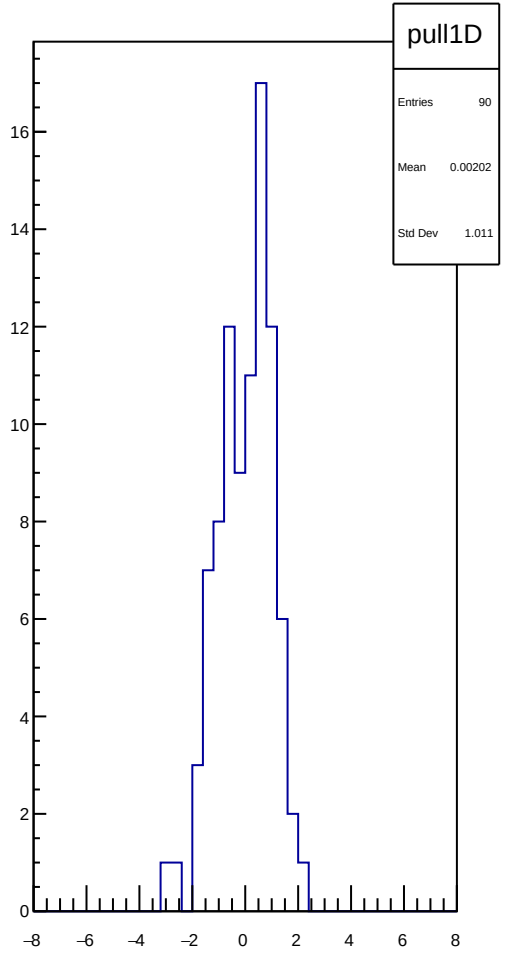

pull1D
Entries 90
Mean −0.01236
Std Dev 0.8466

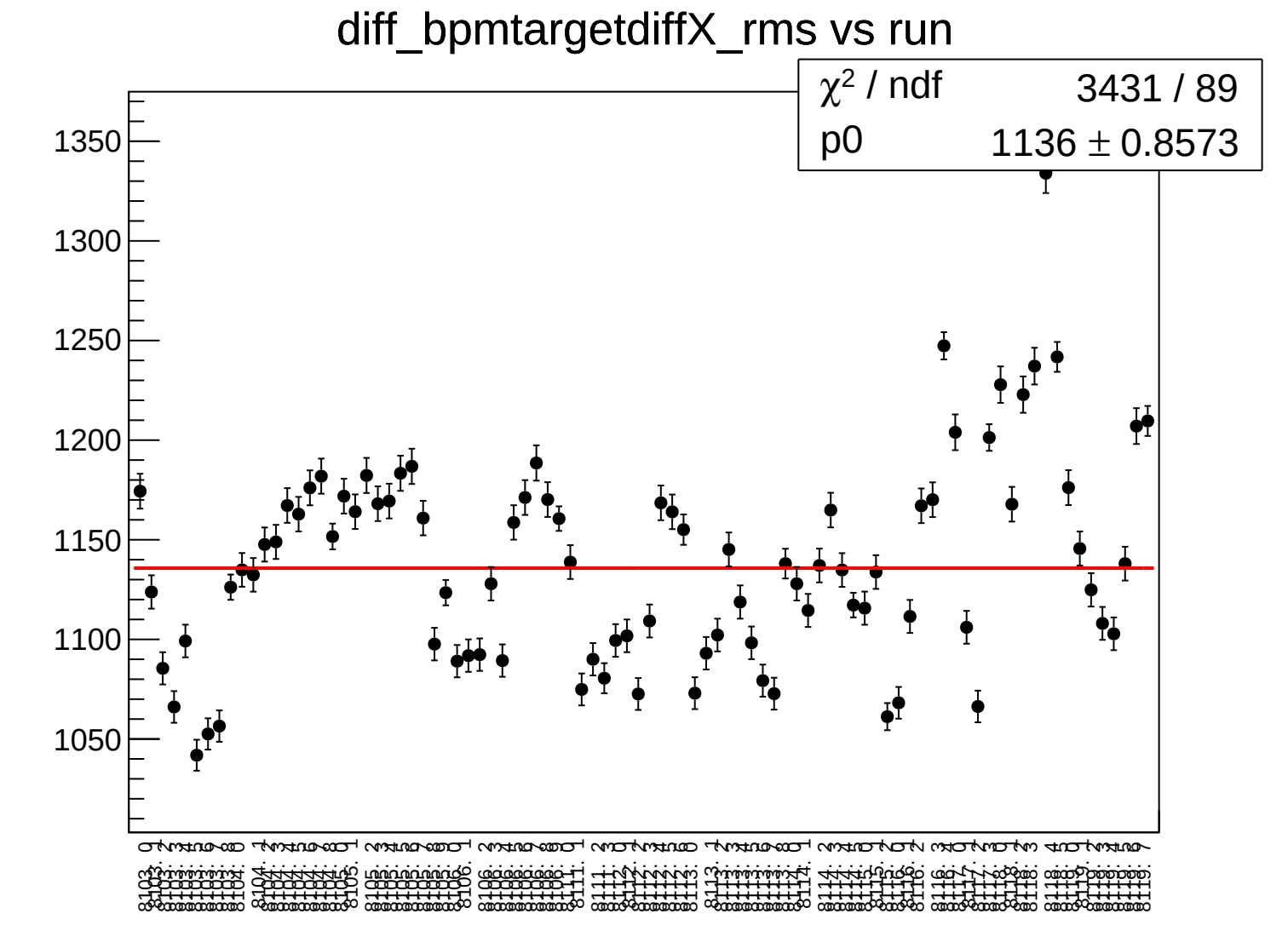

diff_bpm4aediffY_rms vs run
χ² / ndf 1.676e+04 / 89
p0 1979 ± 1.5
2600
2400
2200
2000
1800
1600

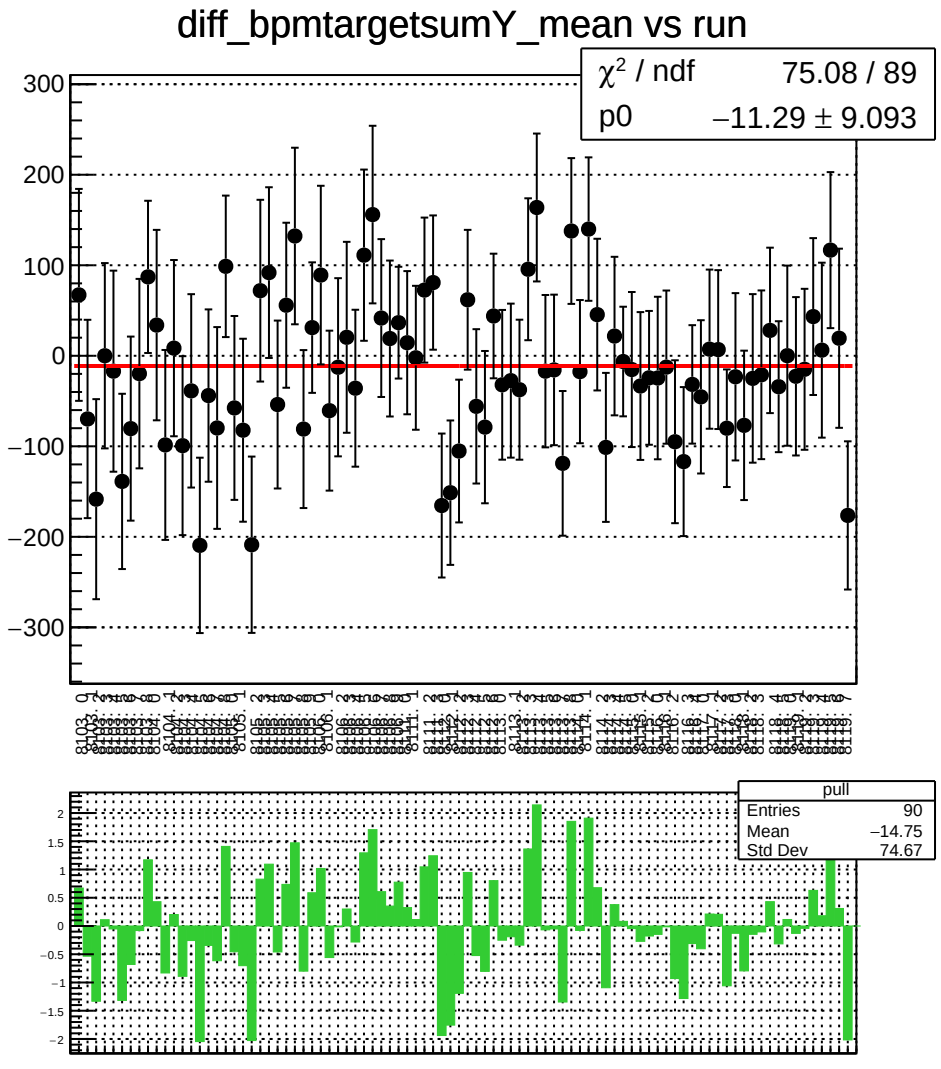

diff_bpmtargetsumX_mean vs run
χ² / ndf 89.3 / 89
p0 −67.96 ± 28.73
1000
500
0
−500
−1000
pull
Entries 90
Mean 1931
Std Dev 0
pull1D
Entries 90
Mean −0.002479
Std Dev 0.9961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

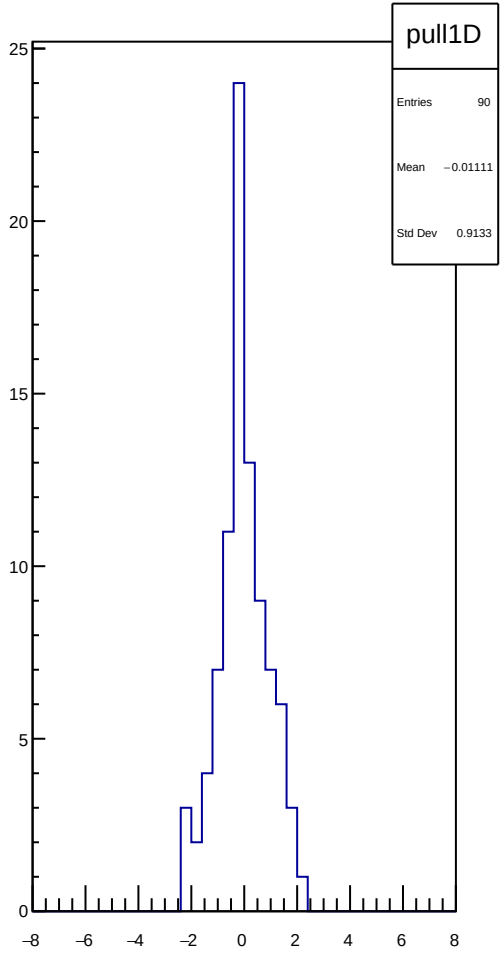

diff_bpmtargetsumX_rms vs run
χ² / ndf 2588 / 89
p0 2.692e+04 ± 20.32
31000
30000
29000
28000
27000
26000
25000
24000

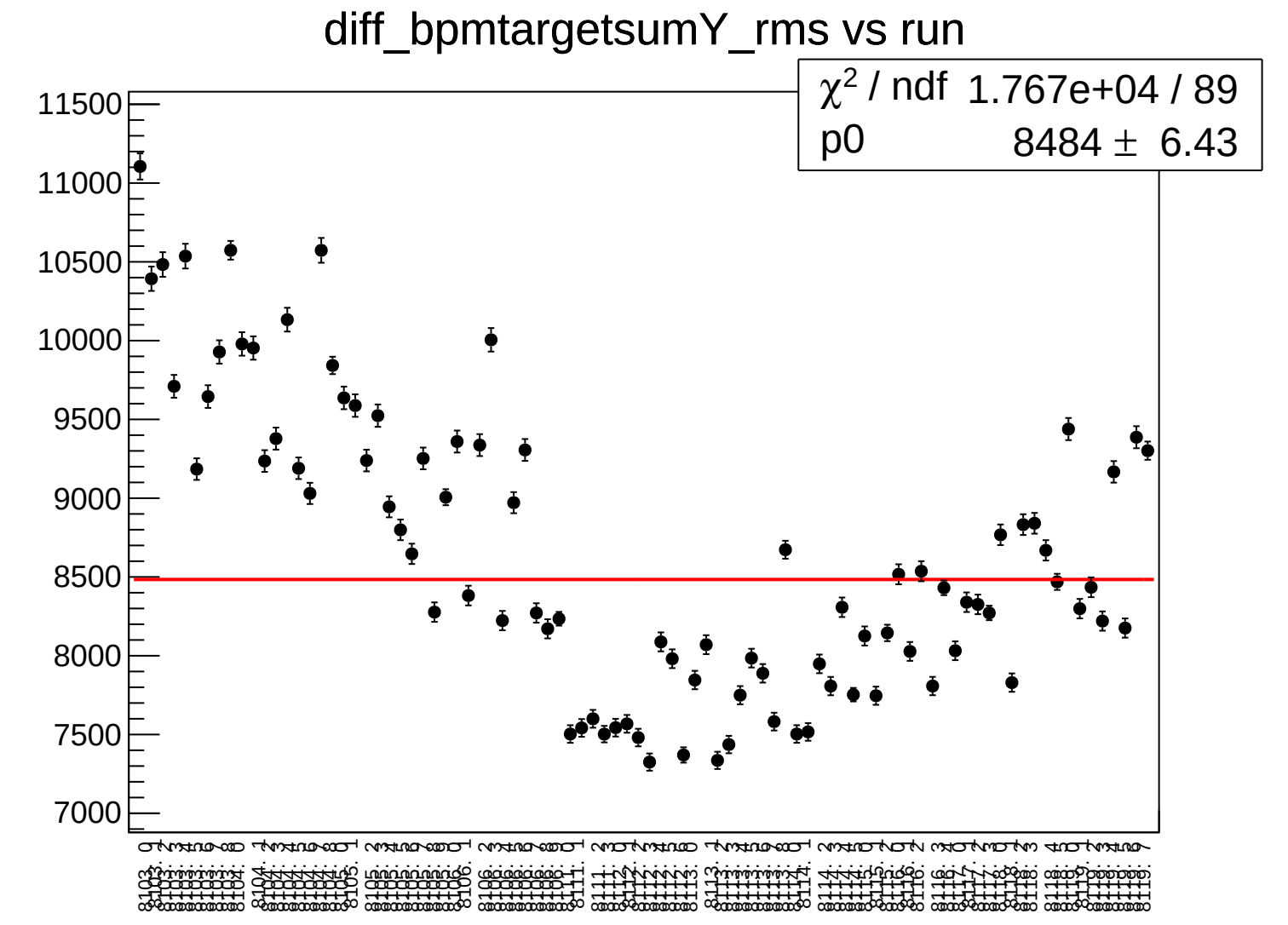

diff_bpmtargetdiffX_mean vs run
χ^2 / ndf 91.93 / 89
p0 2.698 ± 1.212
40
20
0
−20
−40
pull
Entries 90
Mean 1758
Std Dev 0
2
1
0
−1
−2
−3

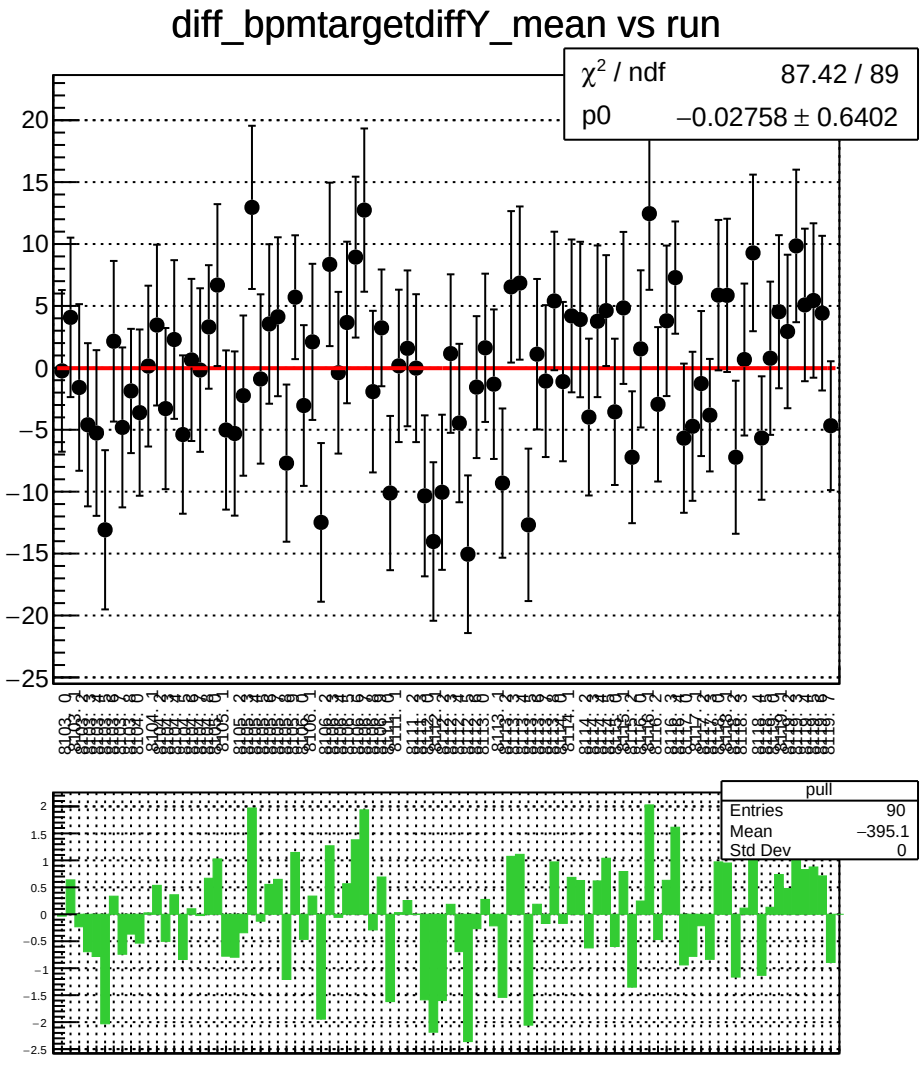

pull1D
Entries 90
Mean 0.00202
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

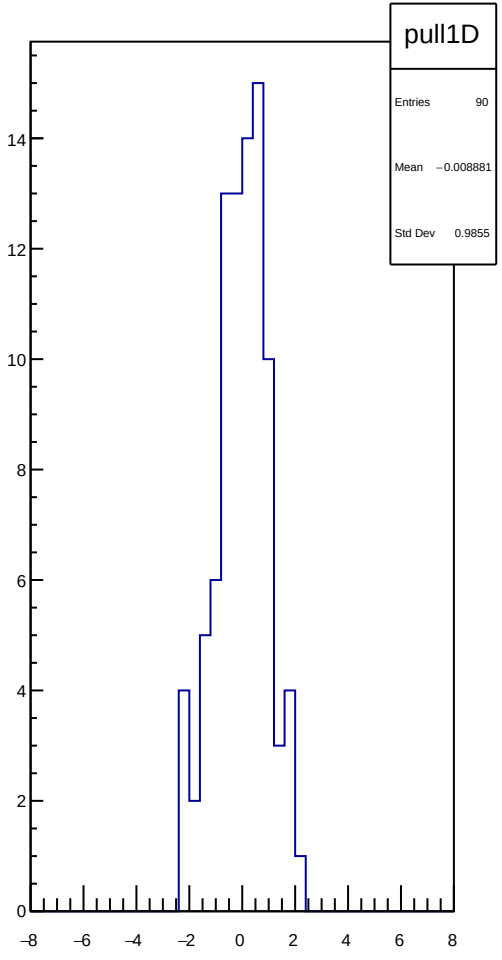

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3431 / 89
p0 1136 ± 0.8573
1350
1300
1250
1200
1150
1100
1050

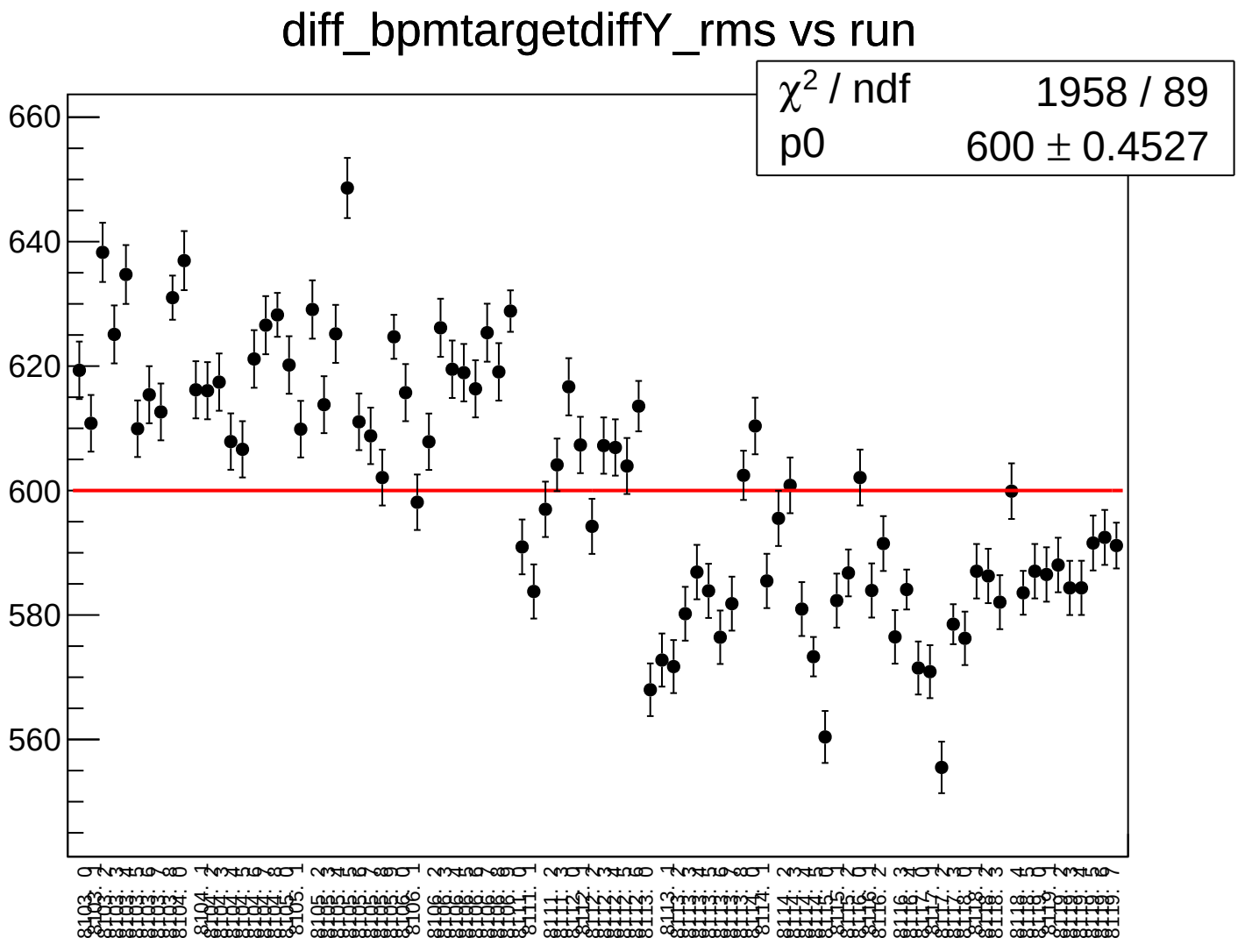

diff_bpmtargetsumY_mean vs run
χ² / ndf 75.08 / 89
p0 −11.29 ± 9.093
pull
Entries 90
Mean −14.75
Std Dev 74.67

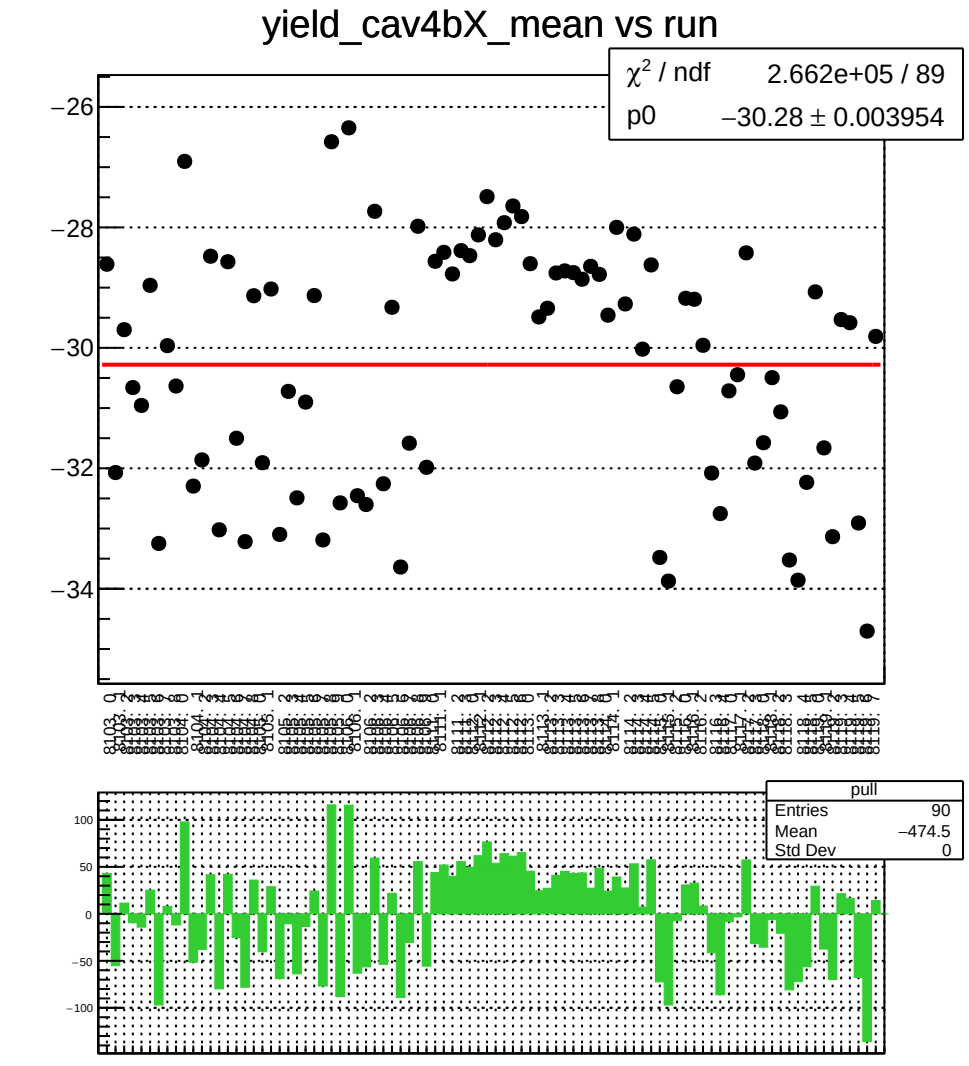

pull1D
Entries 90
Mean −0.01111
Std Dev 0.9133

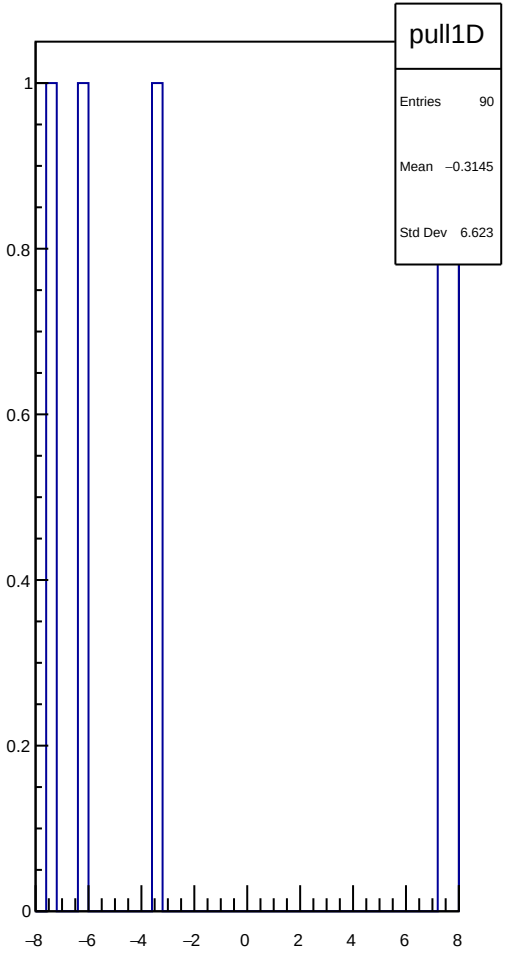

diff_bpmtargetsumY_rms vs run
χ² / ndf 1.767e+04 / 89
p0 8484 ± 6.43
11500
11000
10500
10000
9500
9000
8500
8000
7500
7000

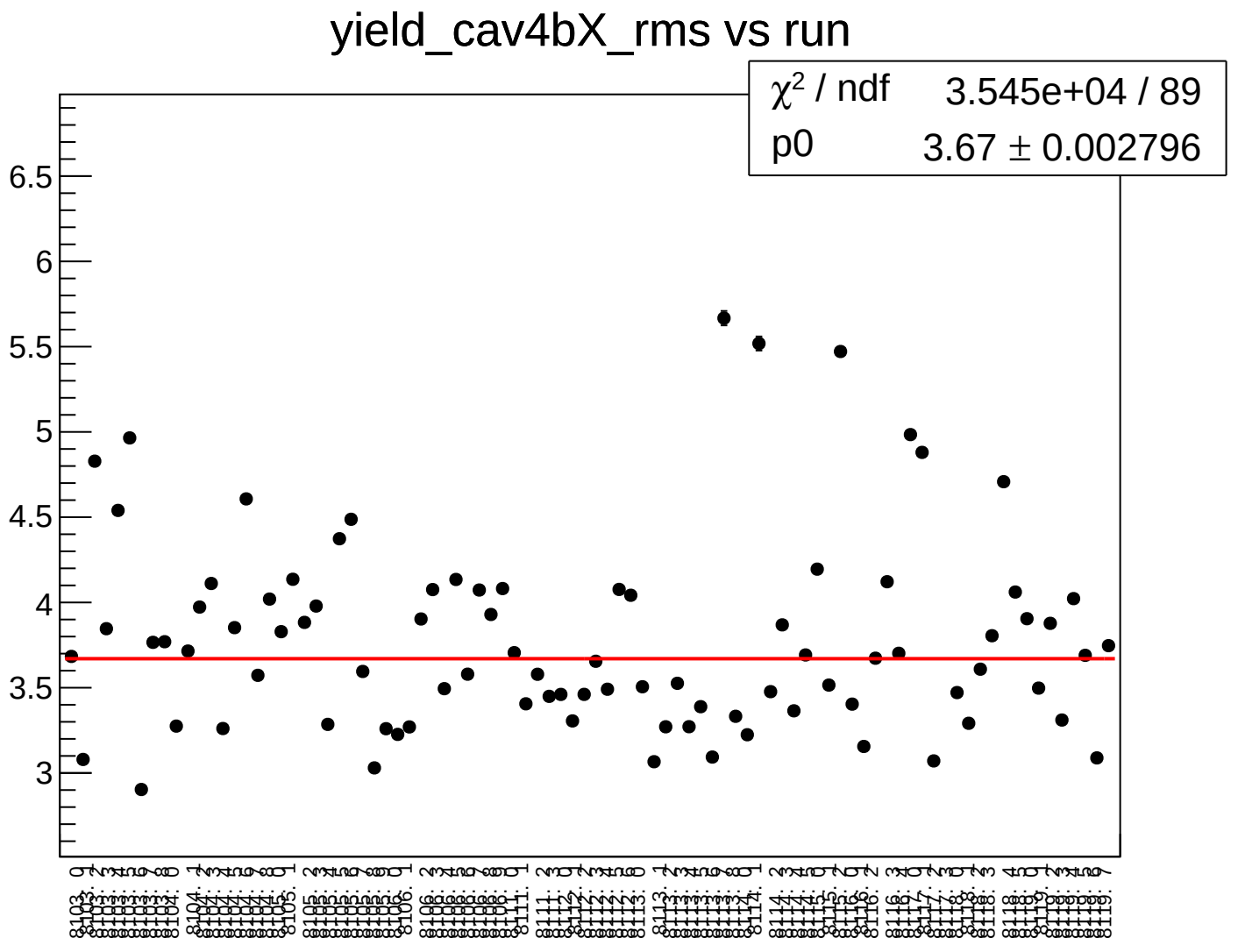

diff_bpmtargetdiffY_mean vs run
χ² / ndf 87.42 / 89
p0 −0.02758 ± 0.6402
pull
Entries 90
Mean −395.1
Std Dev 0

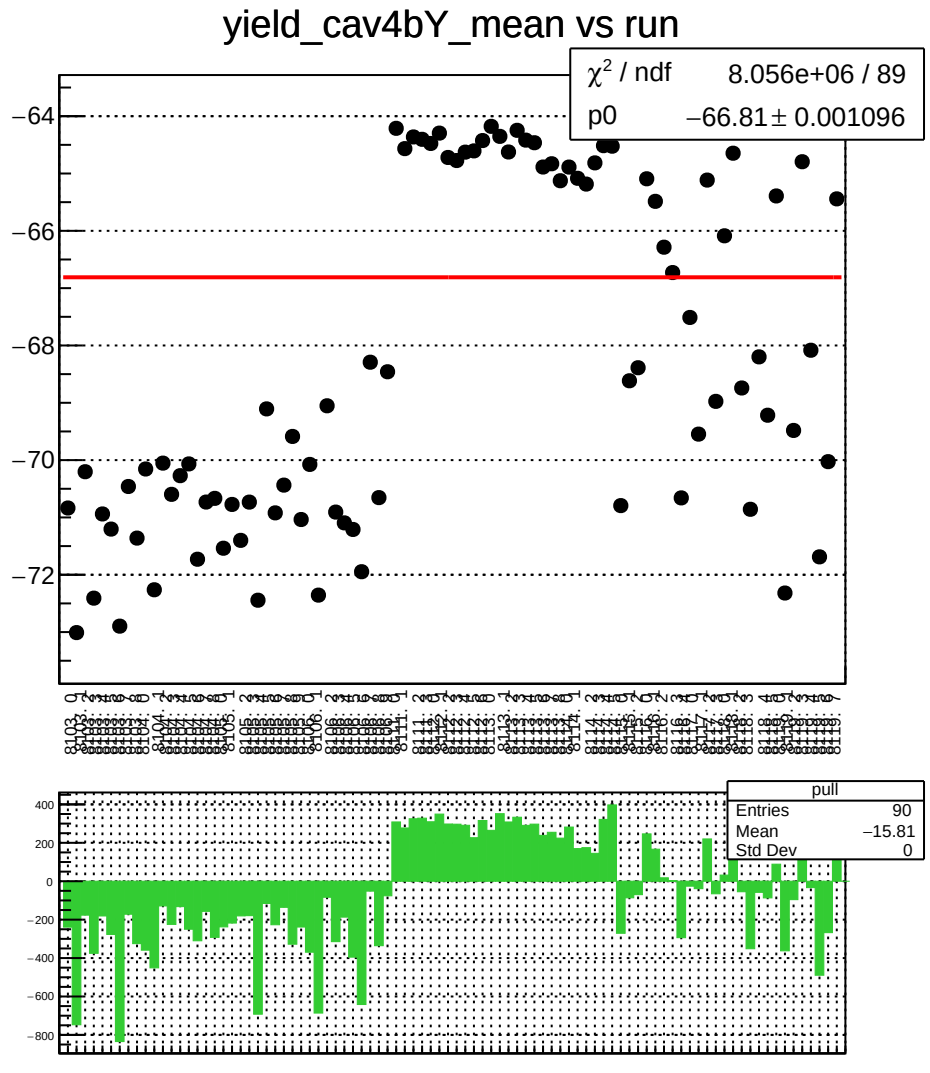

pull1D
Entries 90
Mean −0.008881
Std Dev 0.9855

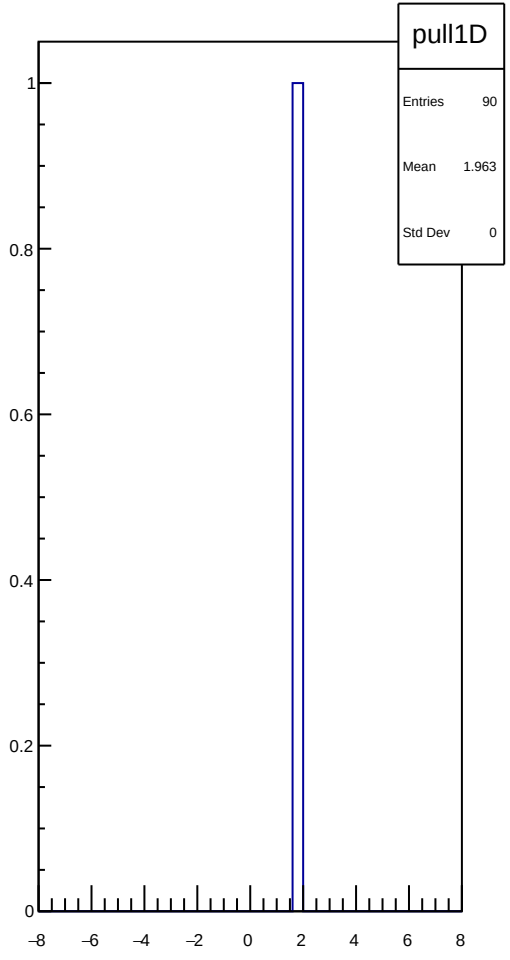

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1958 / 89
p0 600 ± 0.4527
660
640
620
600
580
560

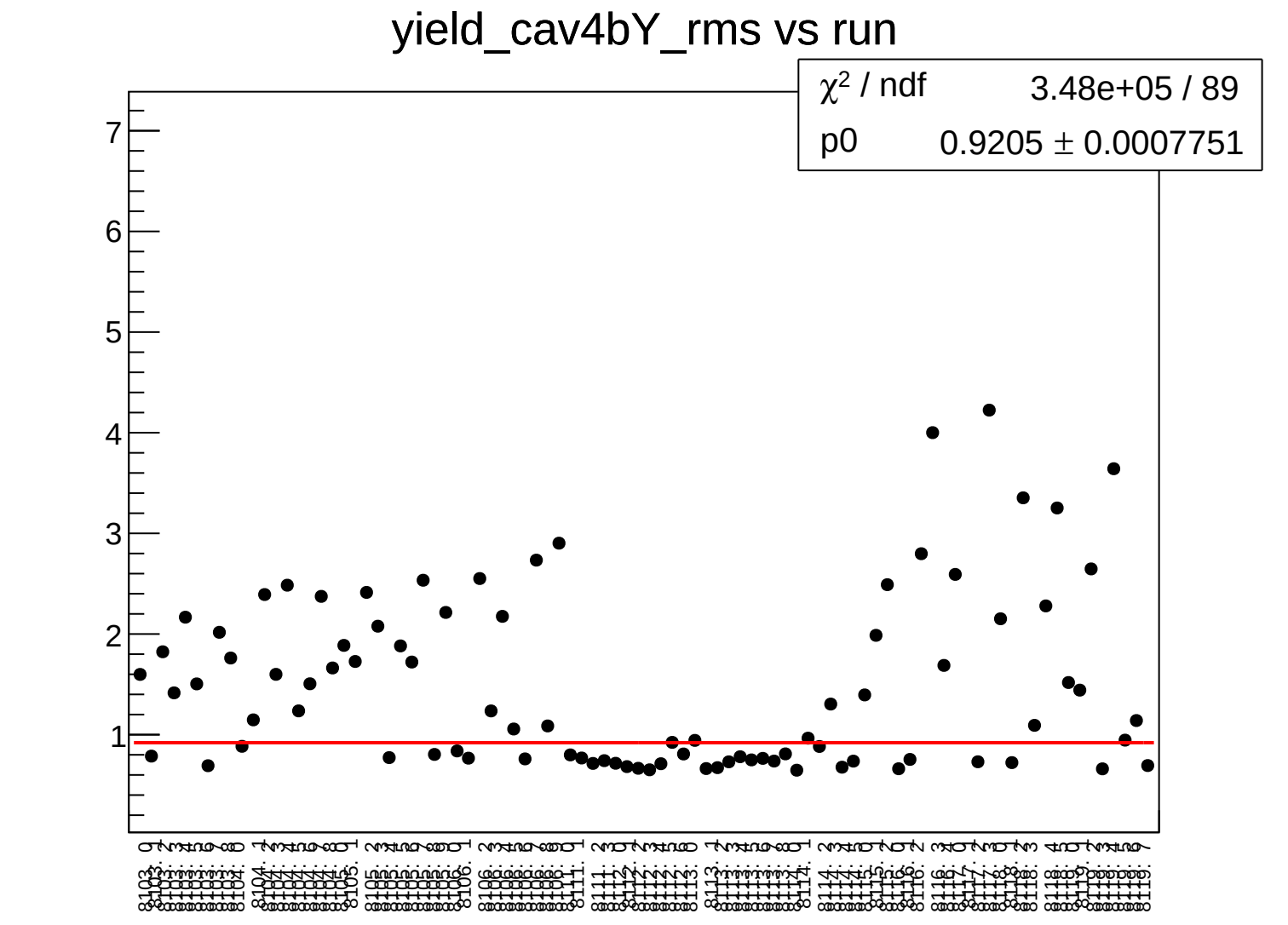

yield_cav4bX_mean vs run
χ² / ndf 2.662e+05 / 89
p0 −30.28 ± 0.003954
−26
−28
−30
−32
−34
pull
Entries 90
Mean −474.5
Std Dev 0
100
50
0
−50
−100

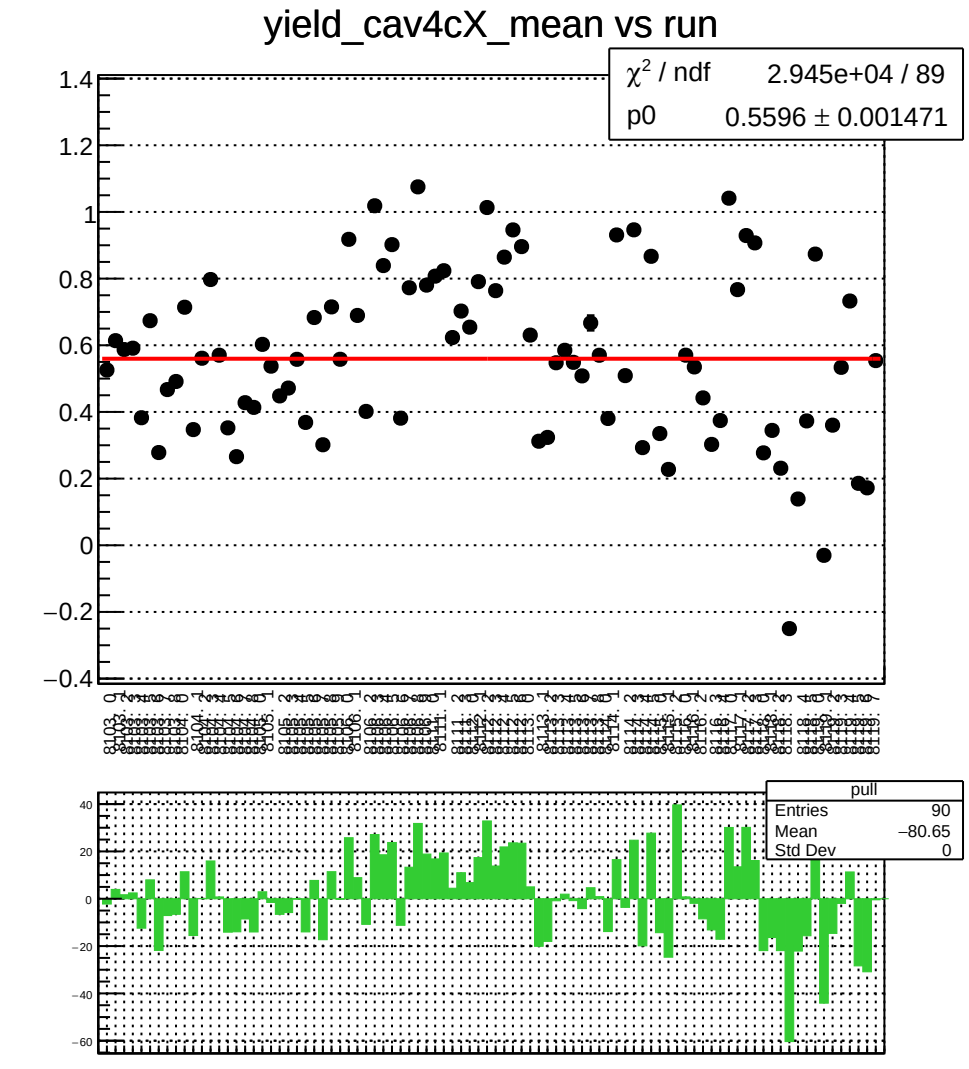

pull1D
Entries 90
Mean −0.3145
Std Dev 6.623
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

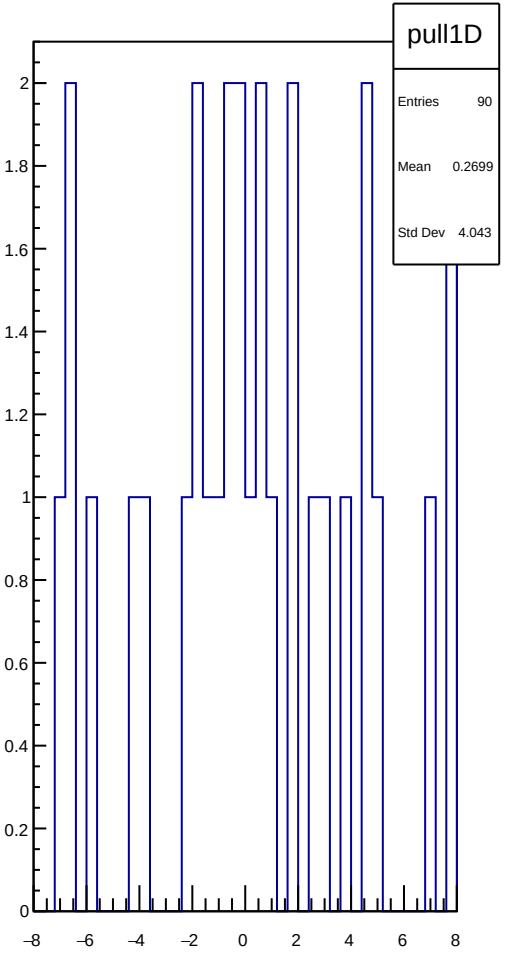

yield_cav4bX_rms vs run
χ² / ndf 3.545e+04 / 89
p0 3.67 ± 0.002796
6.5
6
5.5
5
4.5
4
3.5
3

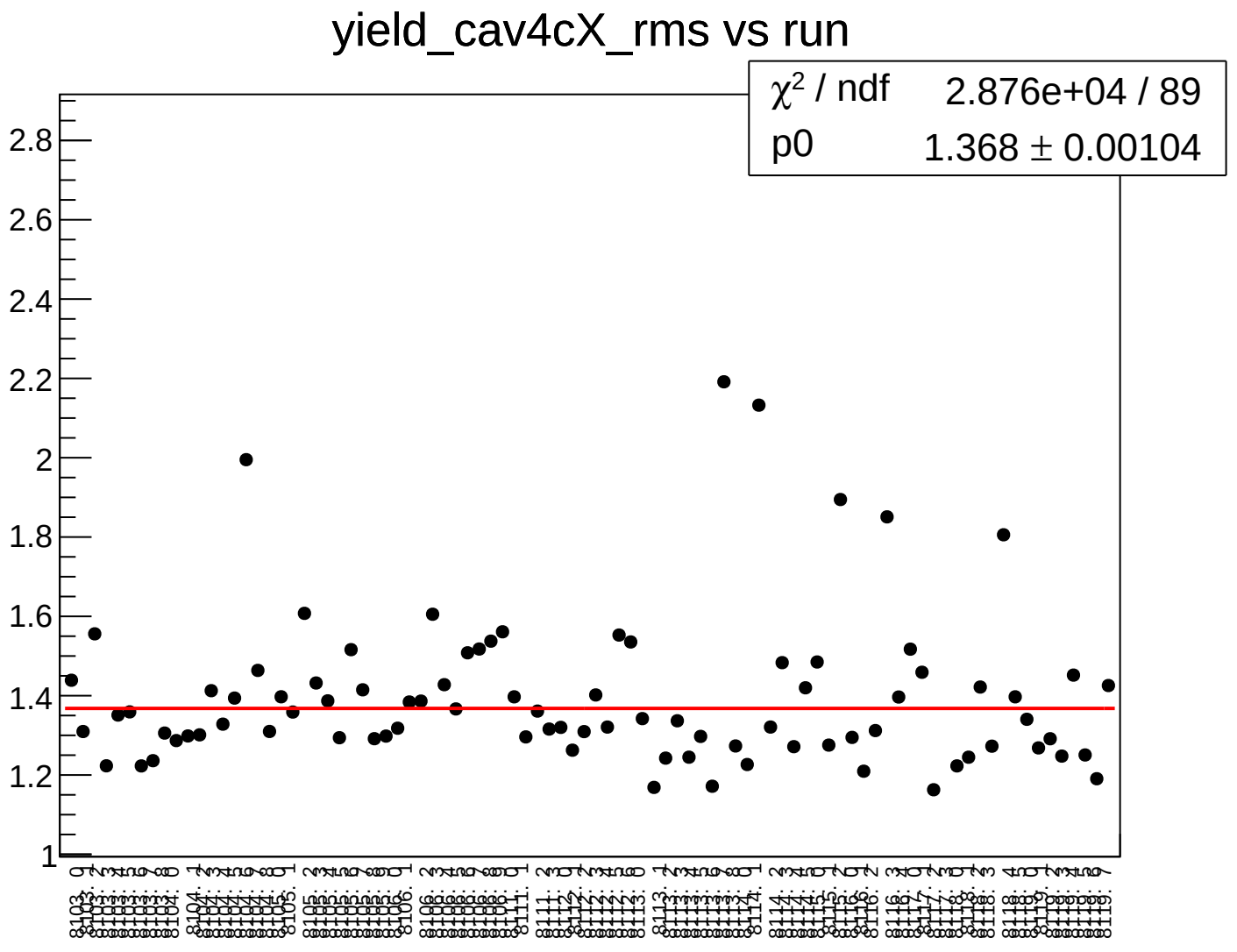

yield_cav4bY_mean vs run
χ² / ndf 8.056e+06 / 89
p0 −66.81 ± 0.001096
−64
−66
−68
−70
−72
pull
Entries 90
Mean −15.81
Std Dev 0
400
200
0
−200
−400
−600
−800

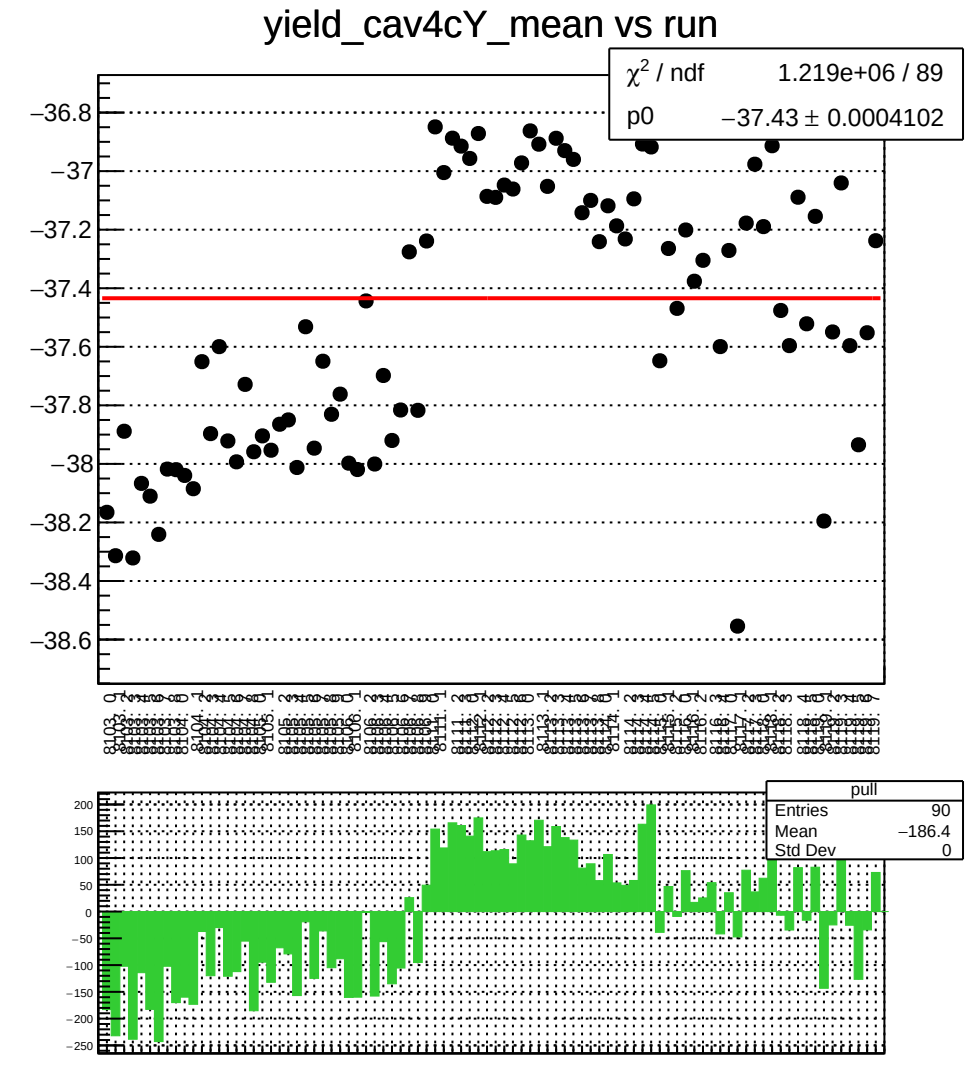

pull1D
Entries 90
Mean 1.963
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

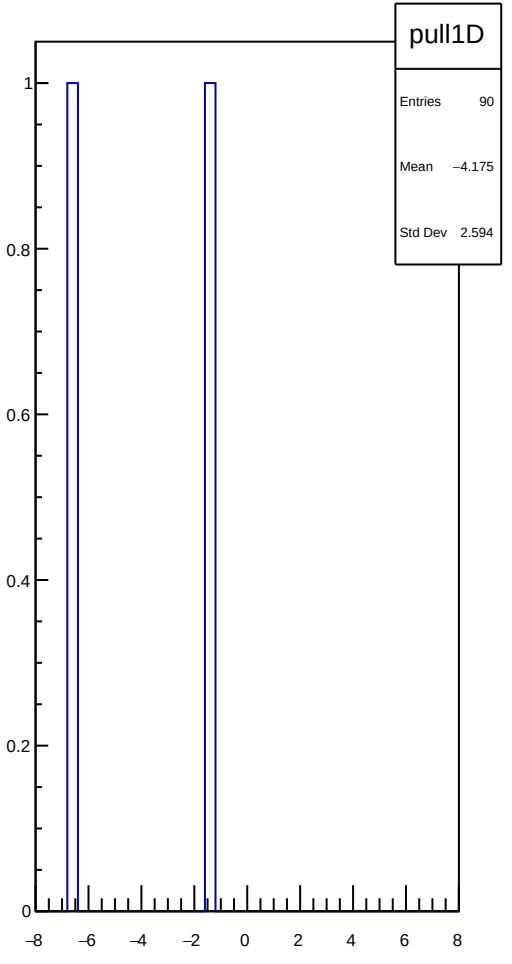

yield_cav4bY_rms vs run
χ² / ndf 3.48e+05 / 89
p0 0.9205 ± 0.0007751
7
6
5
4
3
2
1

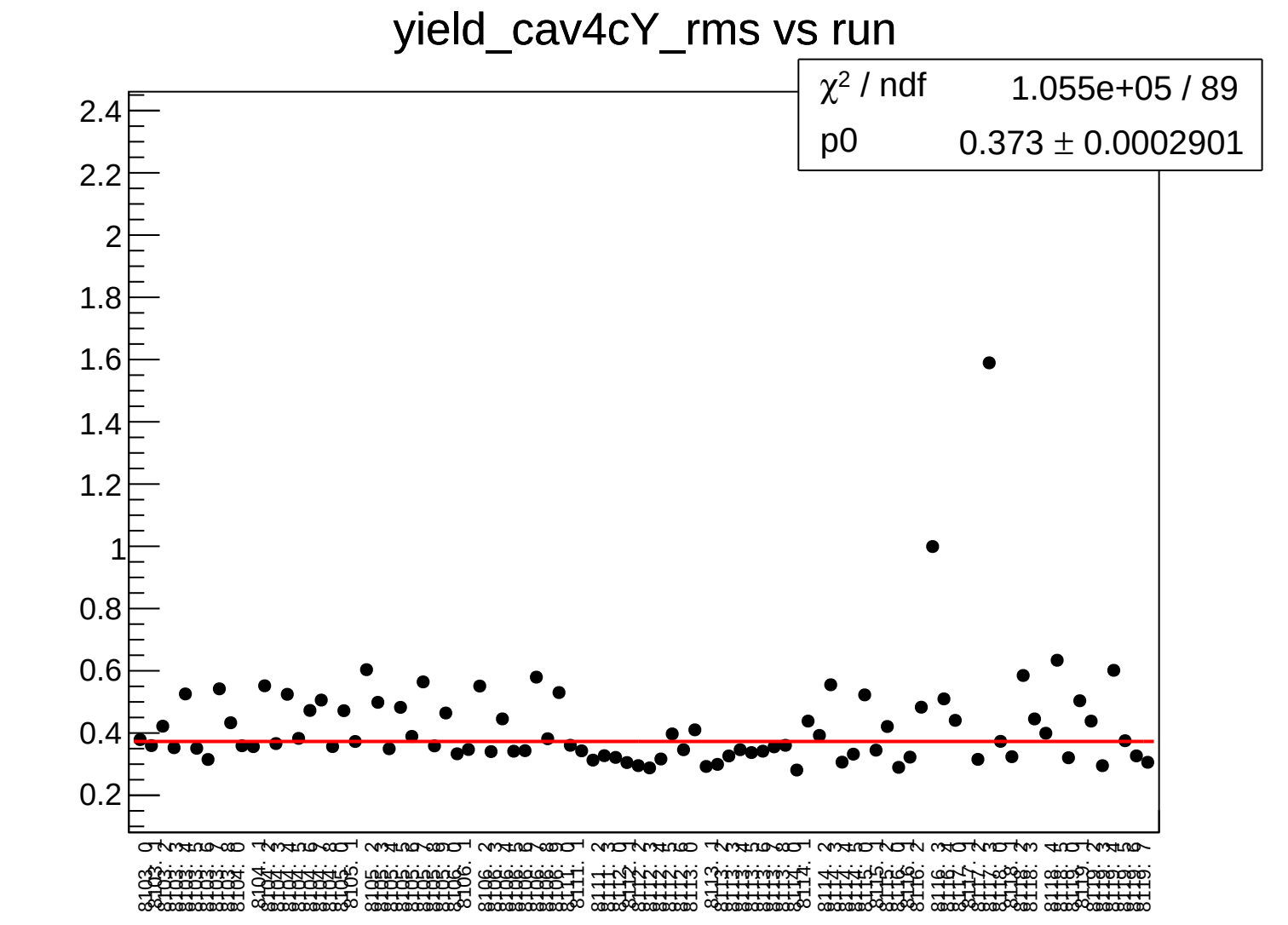

yield_cav4cX_mean vs run
χ² / ndf 2.945e+04 / 89
p0 0.5596 ± 0.001471
pull
Entries 90
Mean −80.65
Std Dev 0

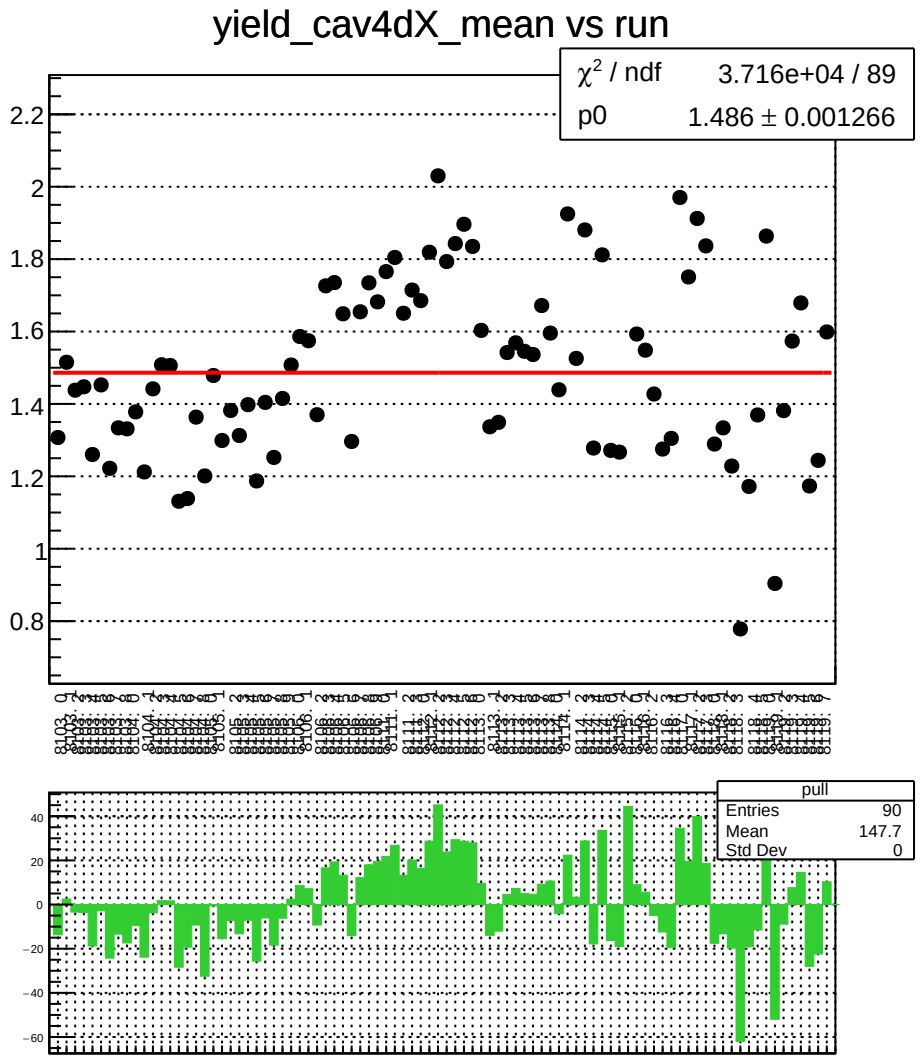

pull1D
Entries 90
Mean 0.2699
Std Dev 4.043

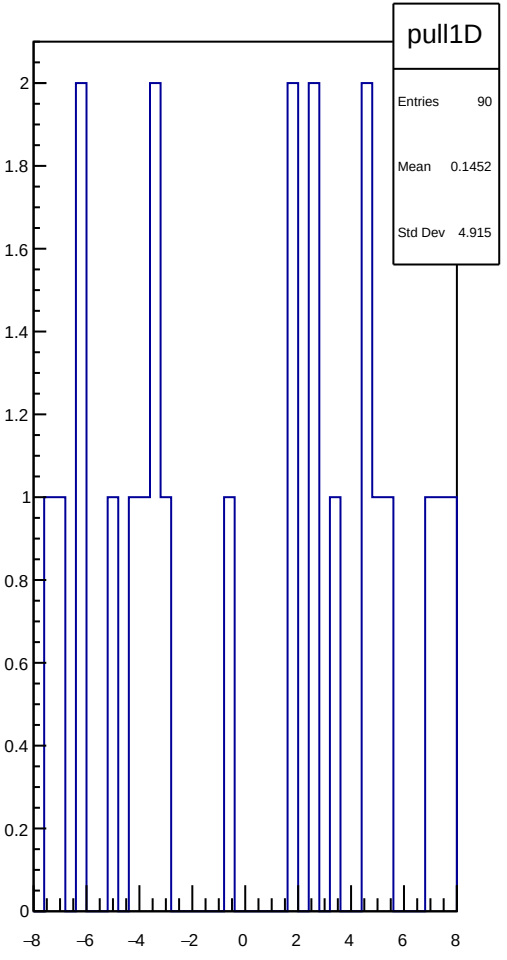

yield_cav4cX_rms vs run
χ² / ndf 2.876e+04 / 89
p0 1.368 ± 0.00104
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1

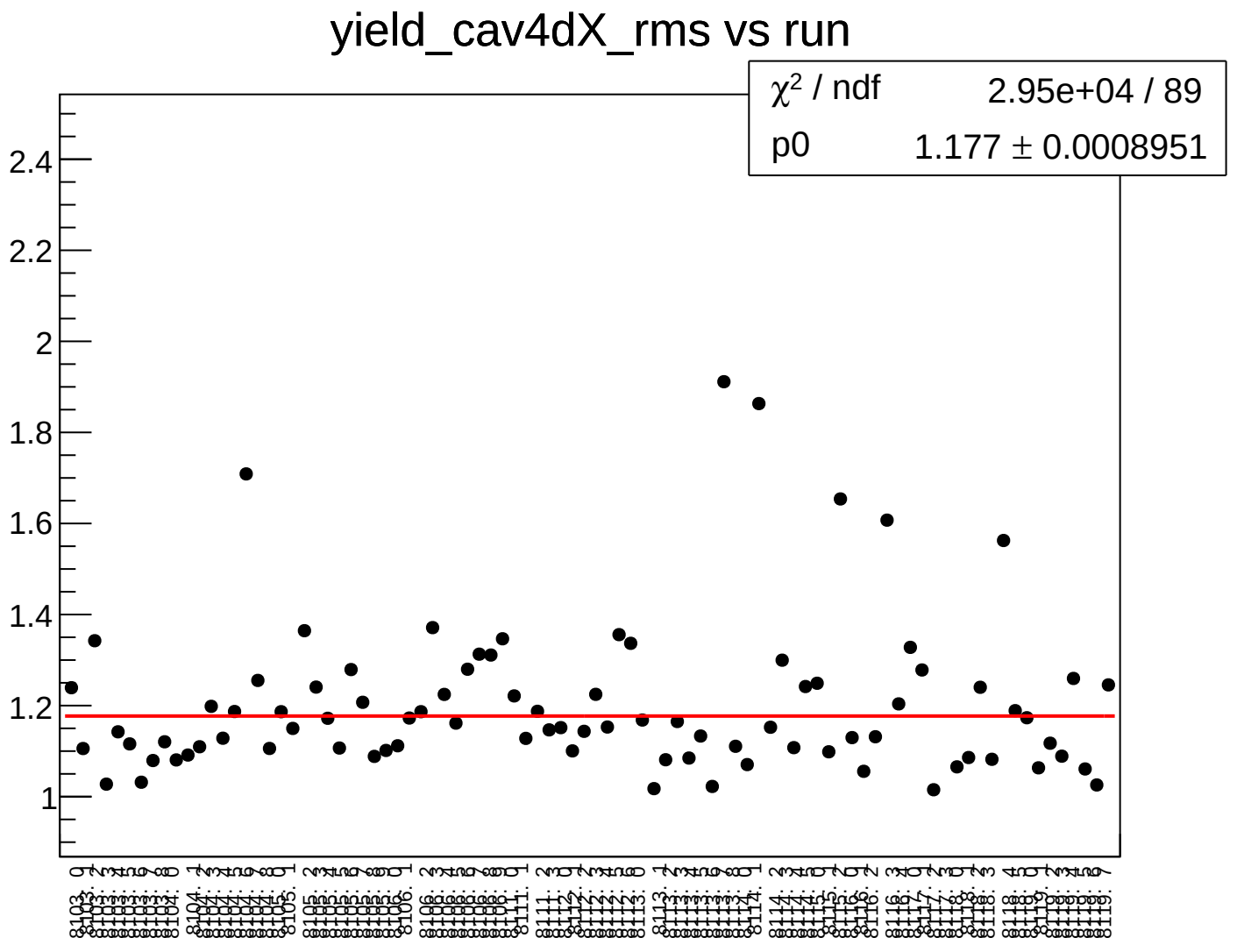

yield_cav4cY_mean vs run
χ² / ndf 1.219e+06 / 89
p0 −37.43 ± 0.0004102
−36.8
−37
−37.2
−37.4
−37.6
−37.8
−38
−38.2
−38.4
−38.6
pull
Entries 90
Mean −186.4
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

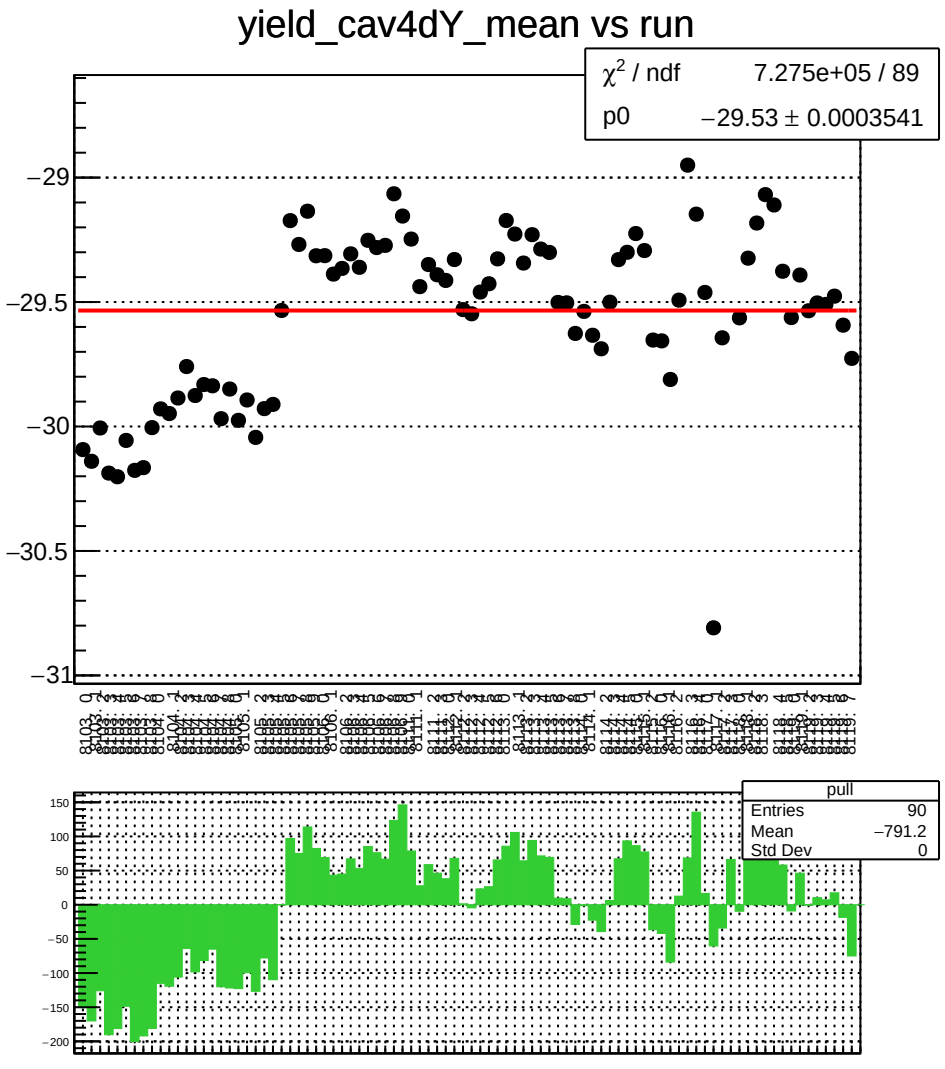

pull1D
Entries 90
Mean −4.175
Std Dev 2.594
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

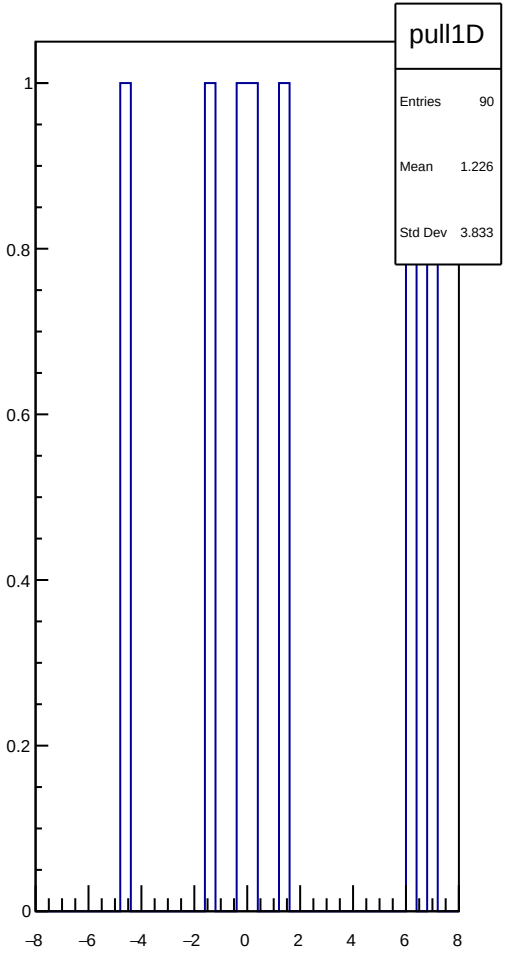

yield_cav4cY_rms vs run
χ² / ndf 1.055e+05 / 89
p0 0.373 ± 0.0002901
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

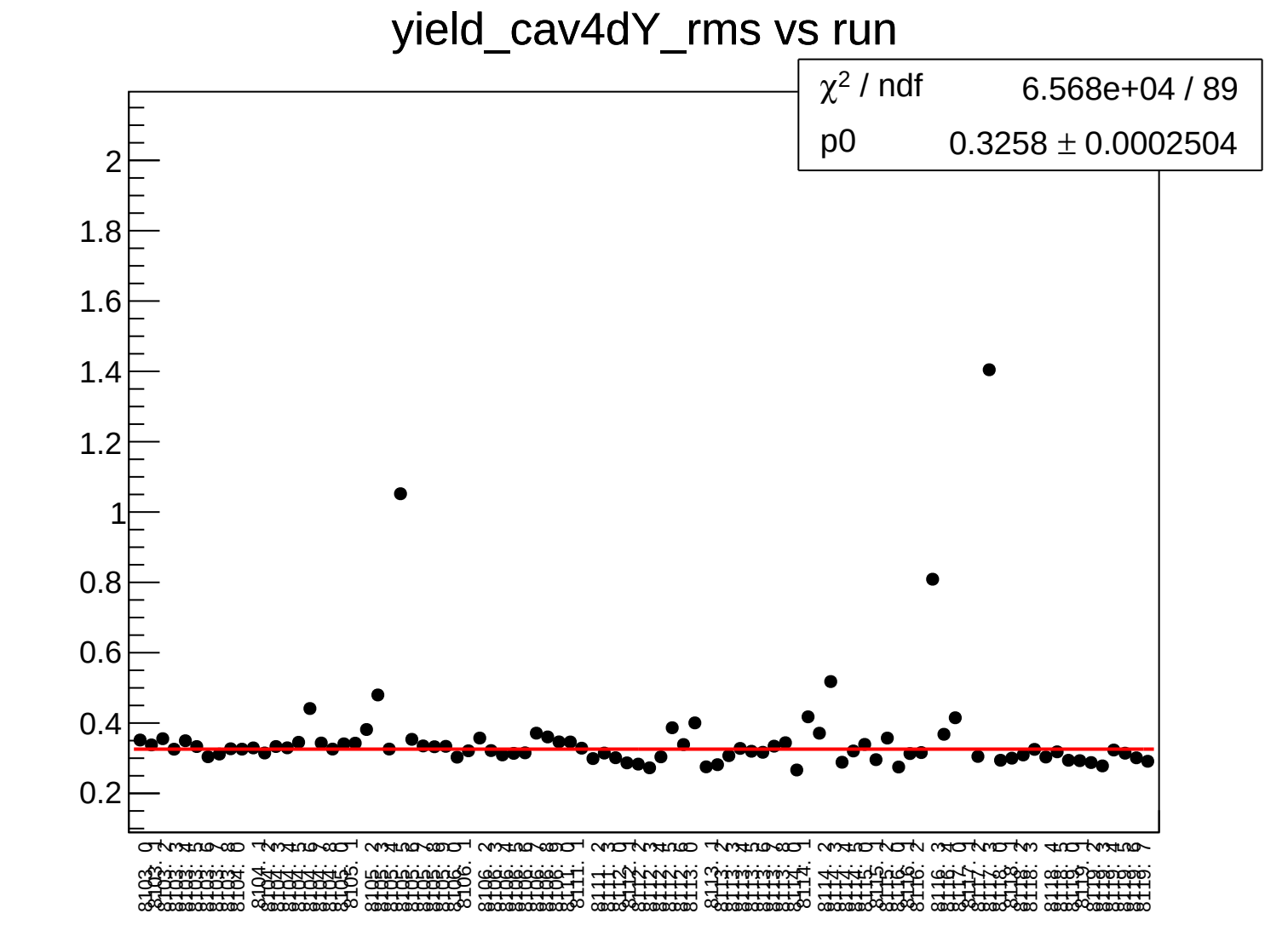

yield_cav4dX_mean vs run
χ² / ndf 3.716e+04 / 89
p0 1.486 ± 0.001266
pull
Entries 90
Mean 147.7
Std Dev 0

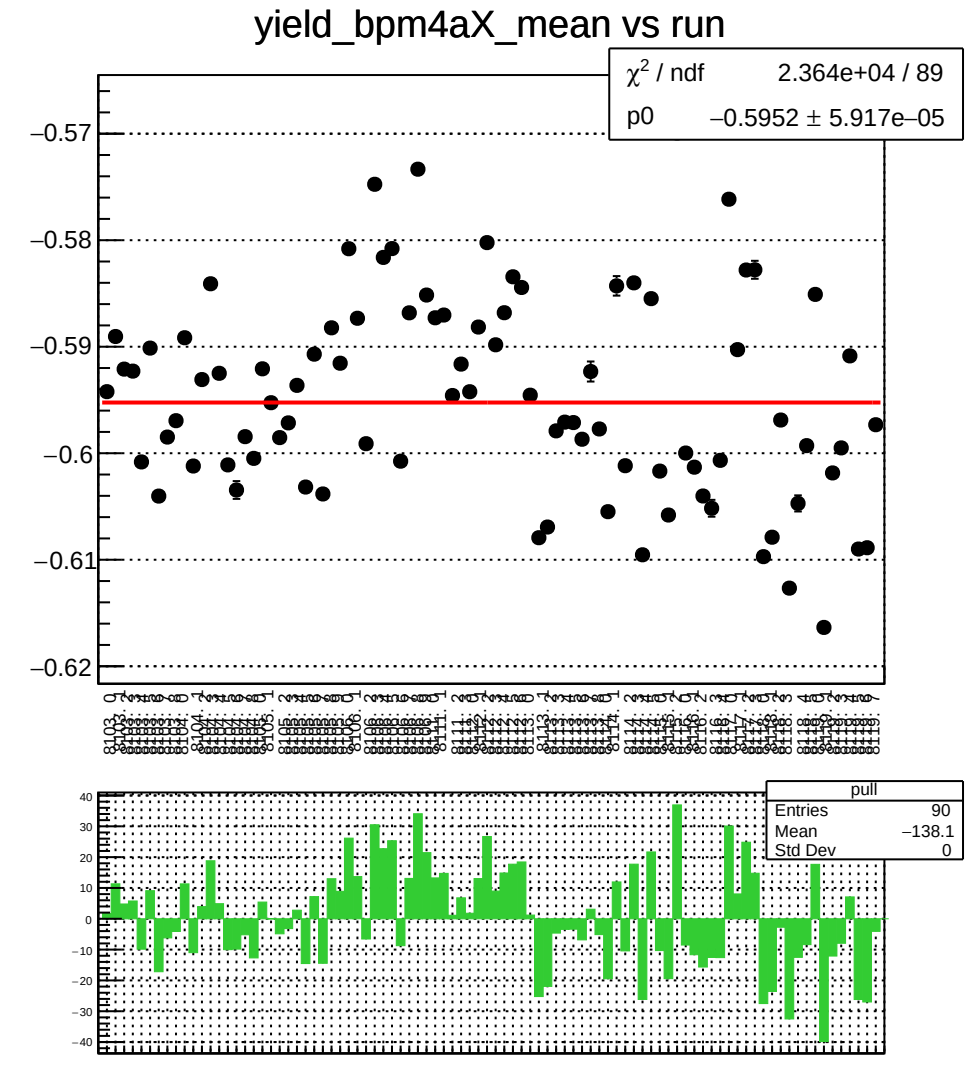

pull1D
Entries 90
Mean 0.1452
Std Dev 4.915

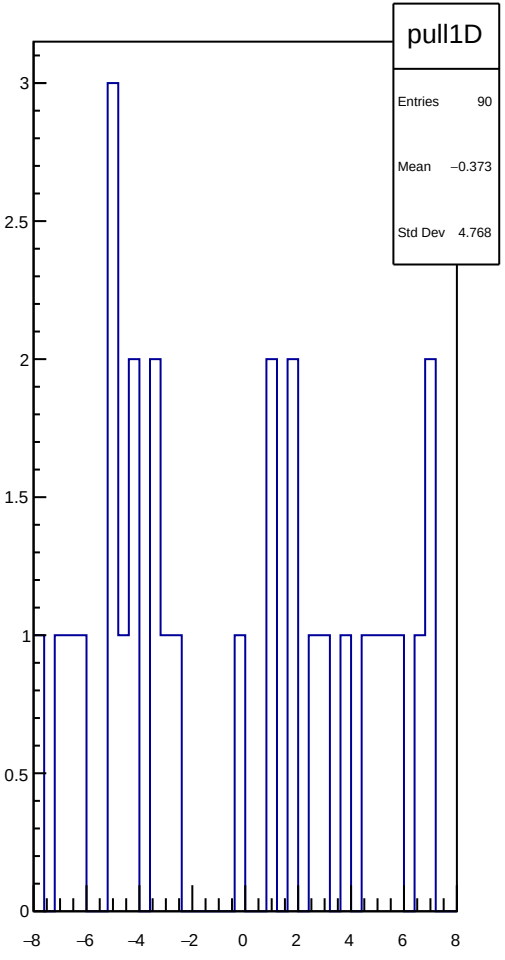

yield_cav4dX_rms vs run
χ² / ndf 2.95e+04 / 89
p0 1.177 ± 0.0008951
2.4
2.2
2
1.8
1.6
1.4
1.2
1

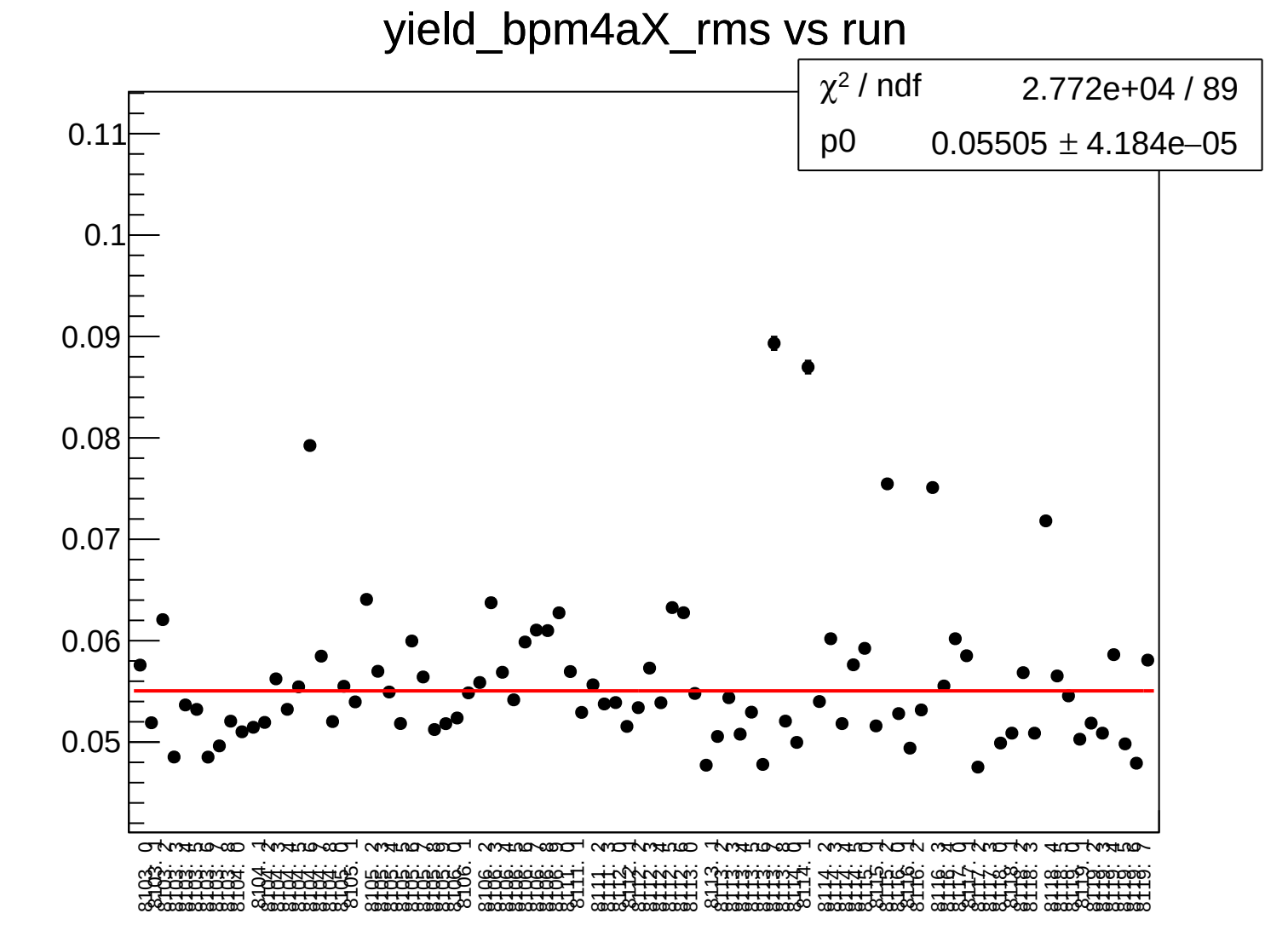

yield_cav4dY_mean vs run
χ² / ndf 7.275e+05 / 89
p0 −29.53 ± 0.0003541
−29
−29.5
−30
−30.5
−31
pull
Entries 90
Mean −791.2
Std Dev 0
150
100
50
0
−50
−100
−150
−200

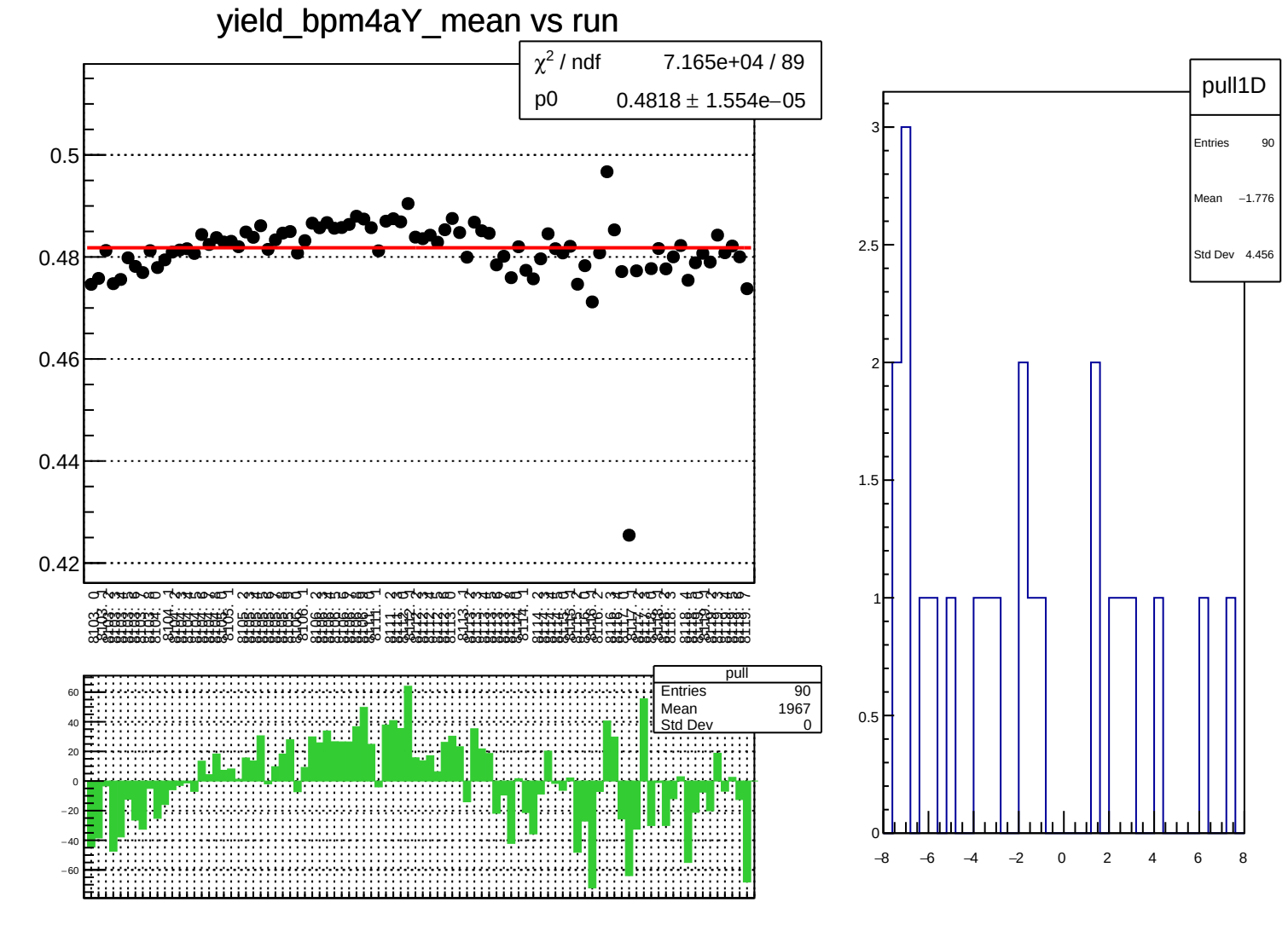

pull1D
Entries 90
Mean 1.226
Std Dev 3.833
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

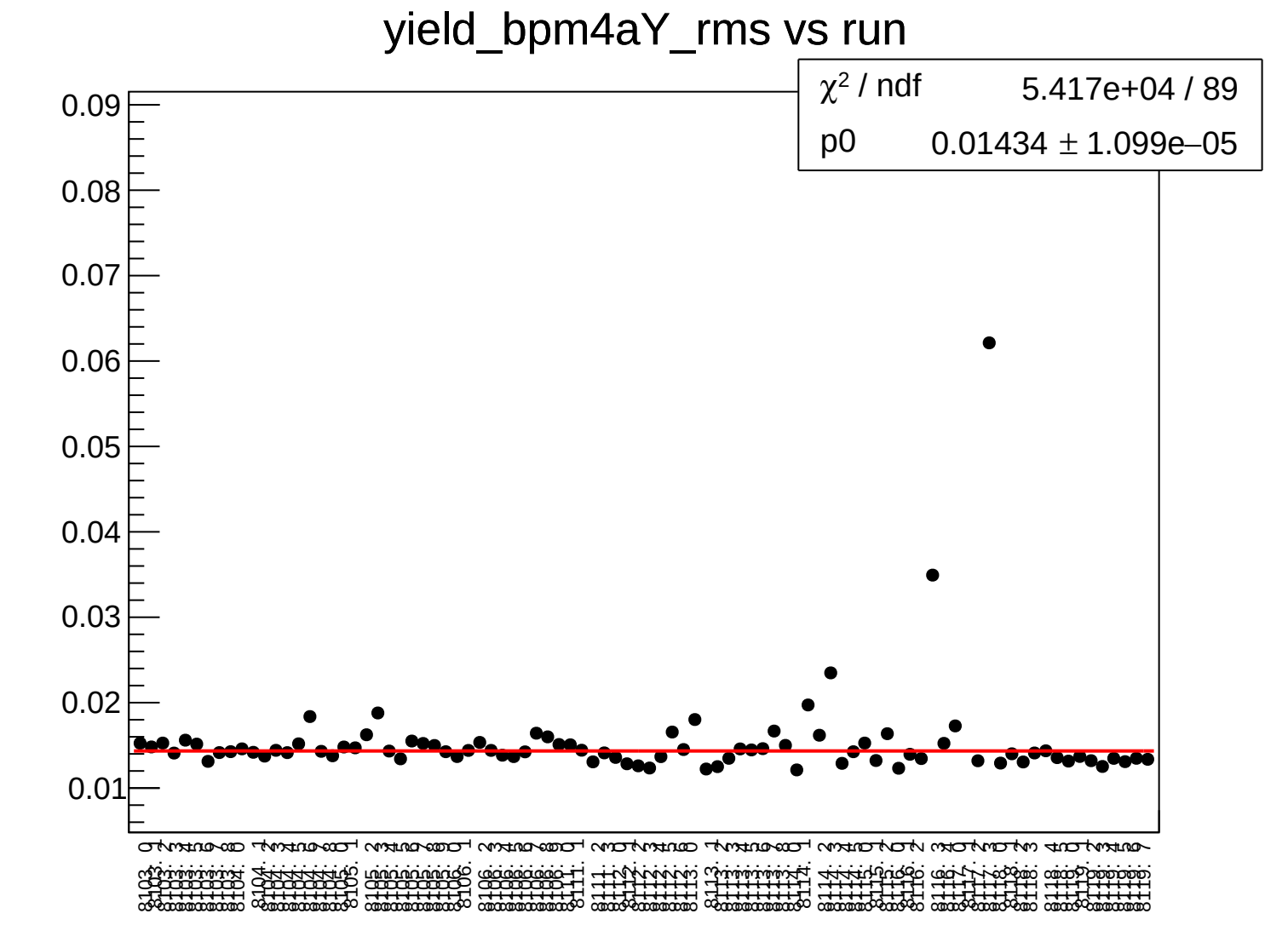

yield_cav4dY_rms vs run
χ² / ndf 6.568e+04 / 89
p0 0.3258 ± 0.0002504
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

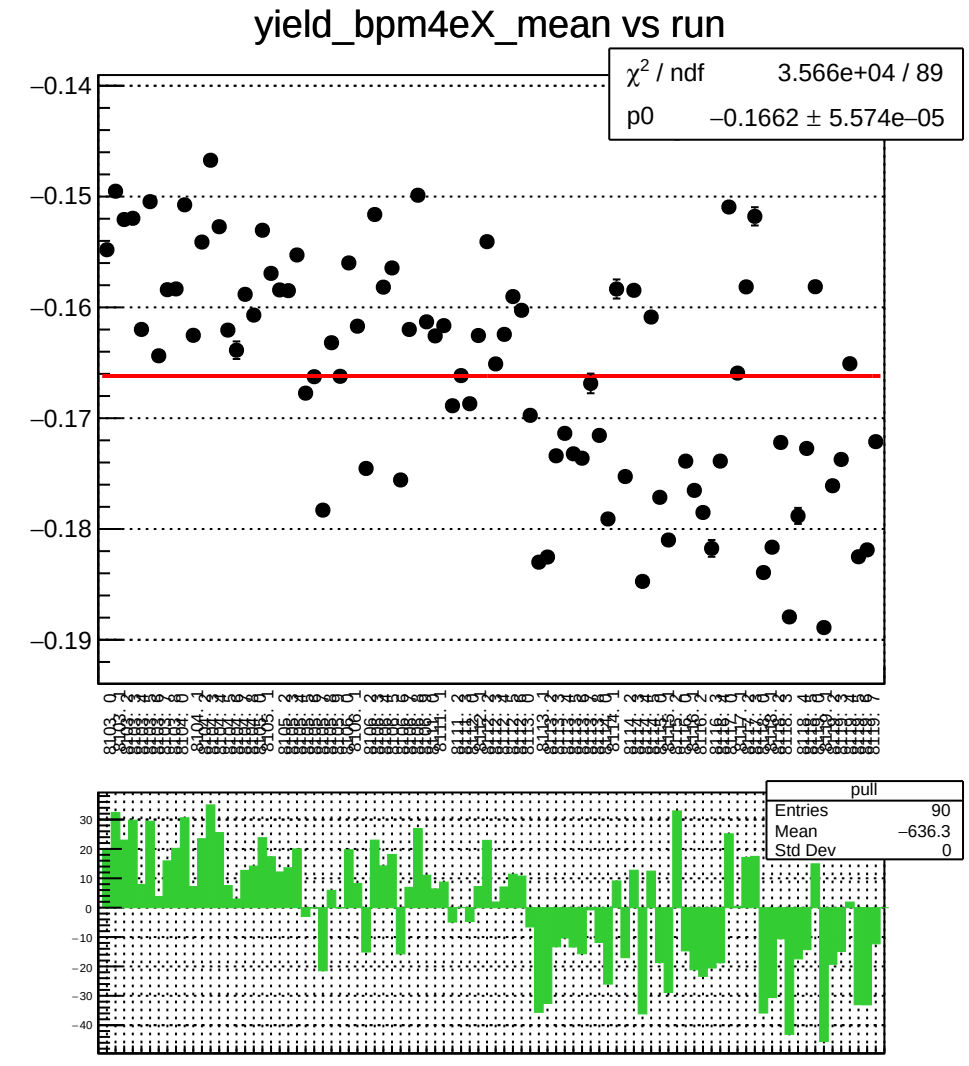

yield_bpm4aX_mean vs run
χ² / ndf 2.364e+04 / 89
p0 −0.5952 ± 5.917e−05
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
pull
Entries 90
Mean −138.1
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

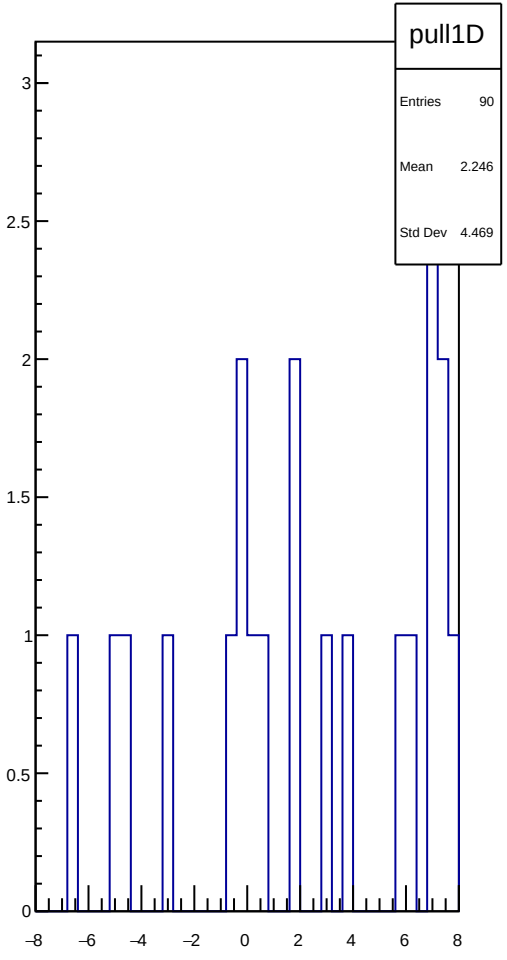

pull1D
Entries 90
Mean −0.373
Std Dev 4.768
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

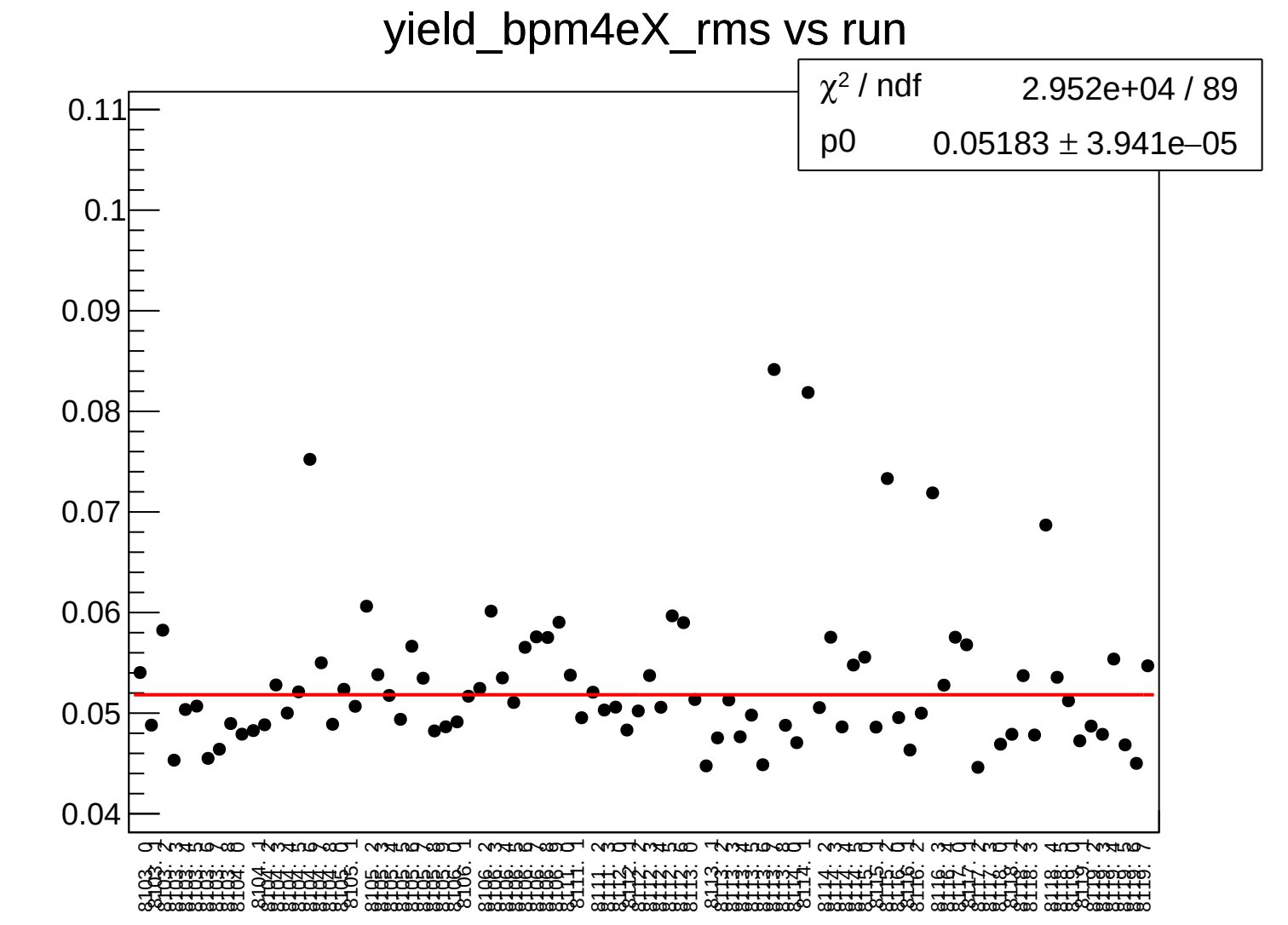

yield_bpm4aX_rms vs run
χ² / ndf 2.772e+04 / 89
p0 0.05505 ± 4.184e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05

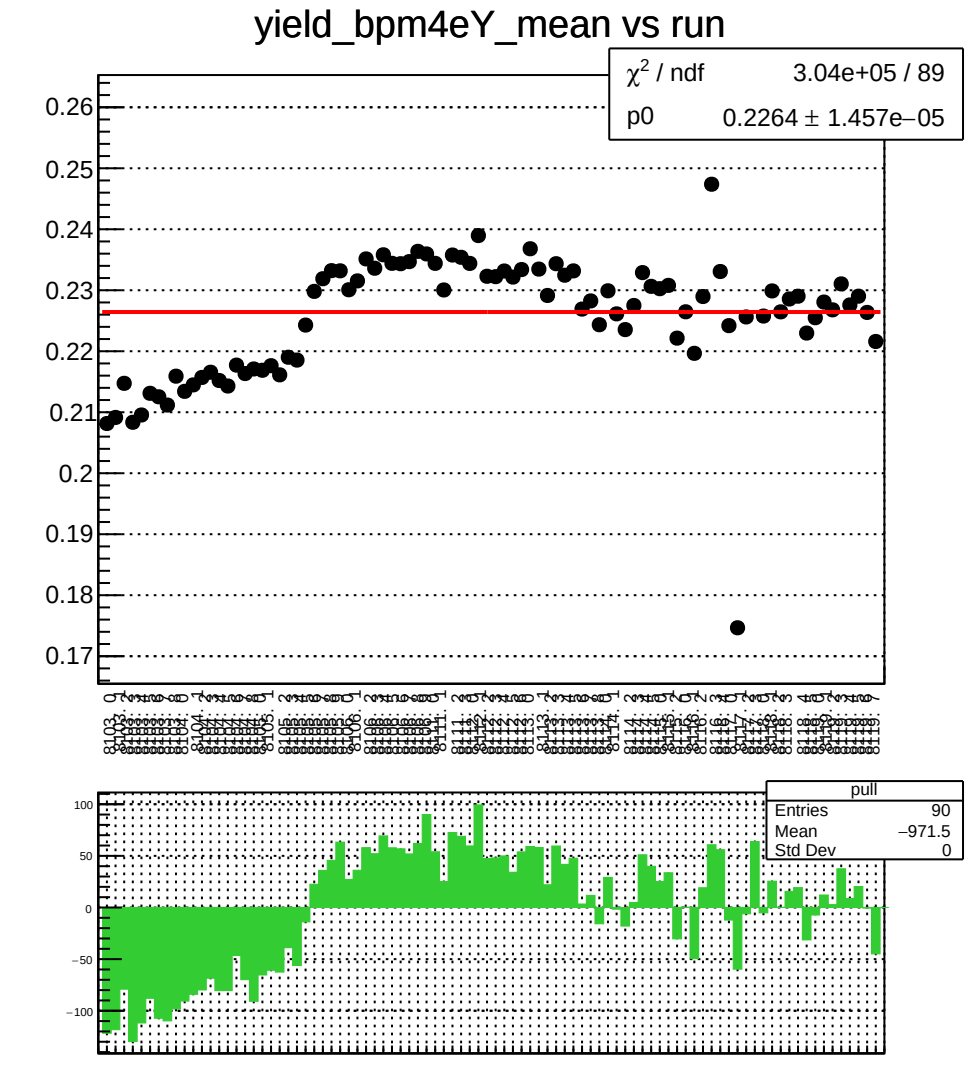

yield_bpm4aY_mean vs run
χ² / ndf 7.165e+04 / 89
p0 0.4818 ± 1.554e−05
0.5
0.48
0.46
0.44
0.42
pull
Entries 90
Mean 1967
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 90
Mean −1.776
Std Dev 4.456
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

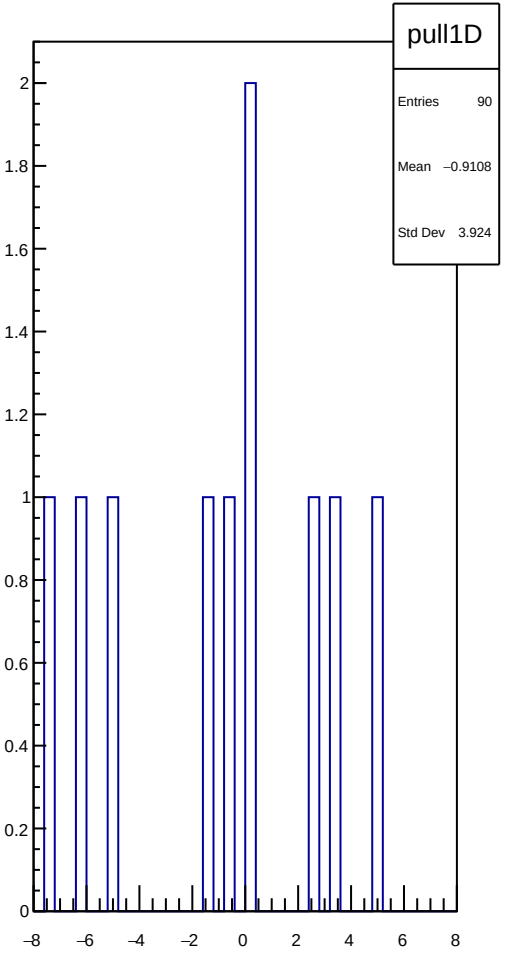

yield_bpm4aY_rms vs run
χ² / ndf 5.417e+04 / 89
p0 0.01434 ± 1.099e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

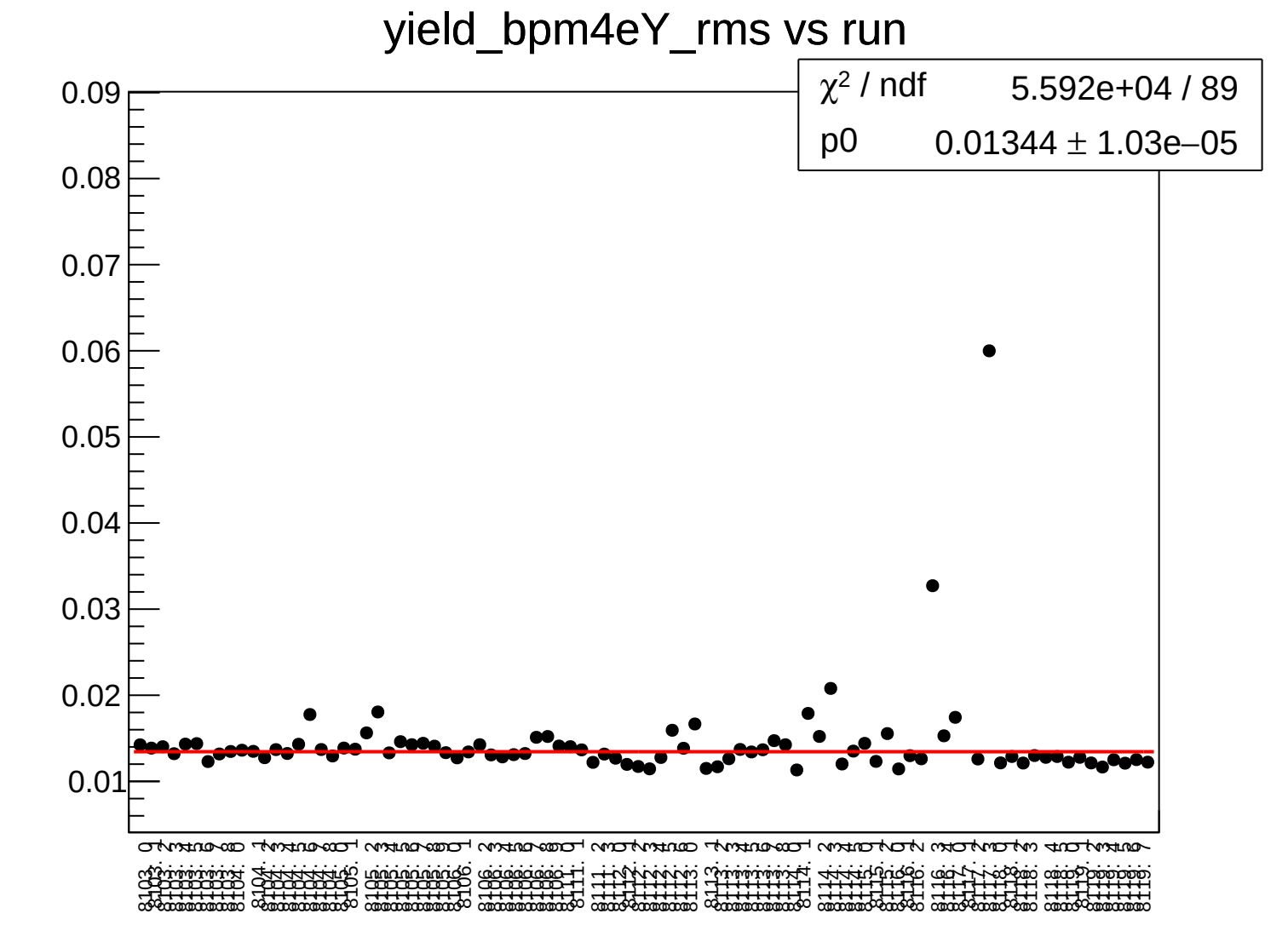

yield_bpm4eX_mean vs run
χ² / ndf 3.566e+04 / 89
p0 −0.1662 ± 5.574e−05
−0.14
−0.15
−0.16
−0.17
−0.18
−0.19
pull
Entries 90
Mean −636.3
Std Dev 0
30
20
10
0
−10
−20
−30
−40

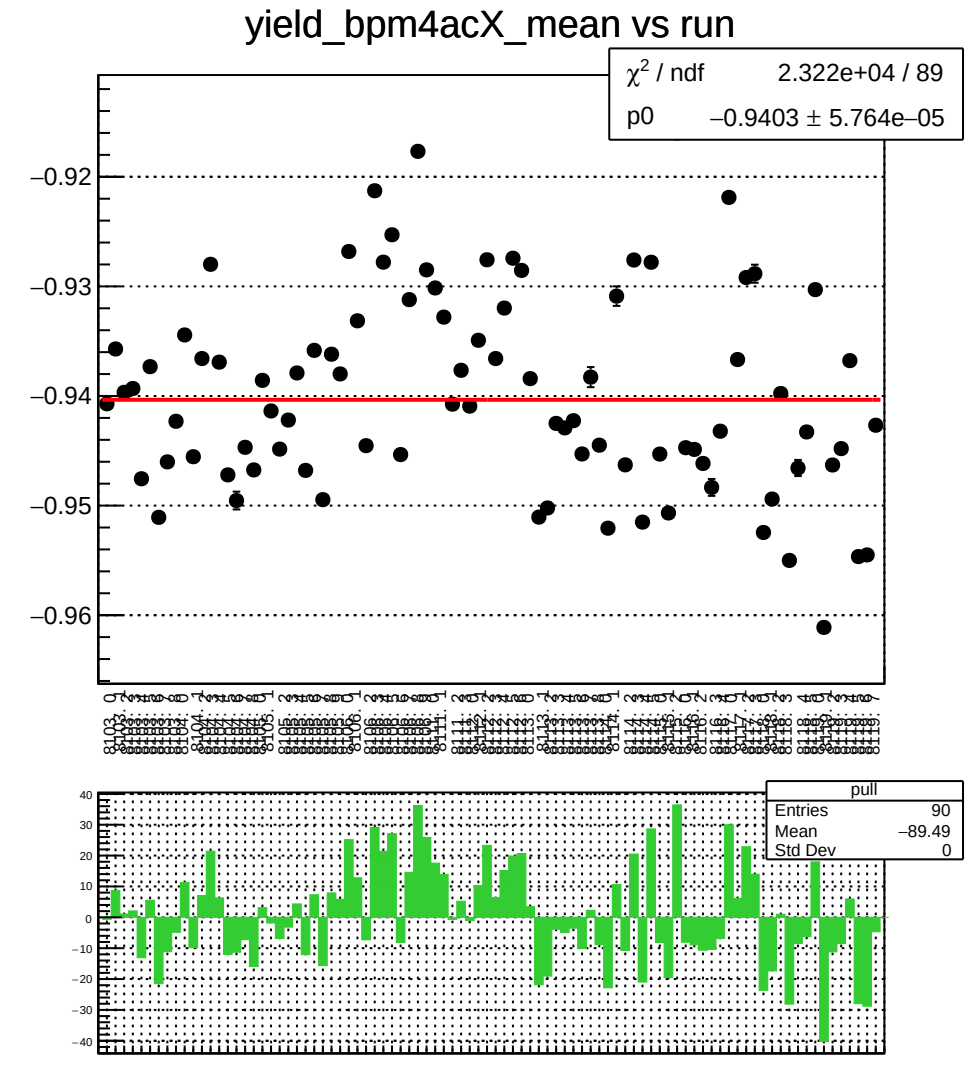

pull1D
Entries 90
Mean 2.246
Std Dev 4.469
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

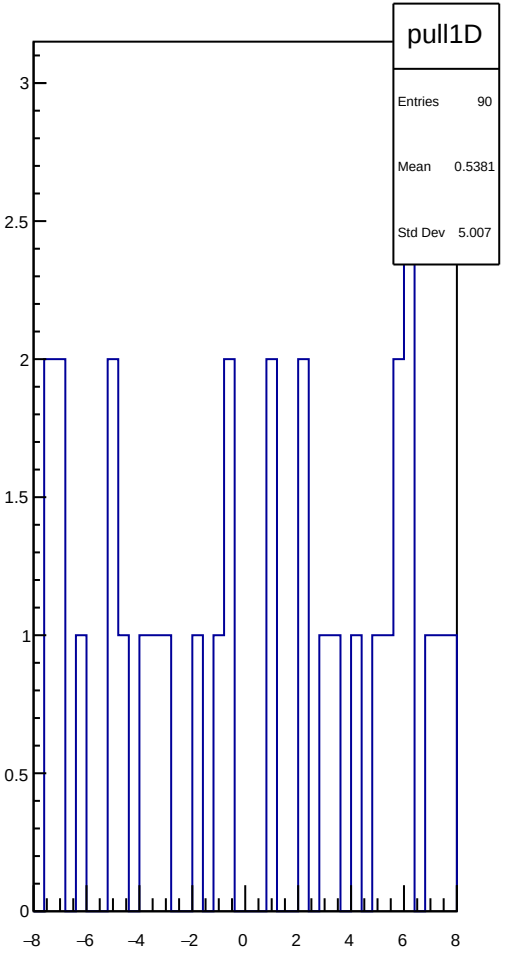

yield_bpm4eX_rms vs run
χ² / ndf 2.952e+04 / 89
p0 0.05183 ± 3.941e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

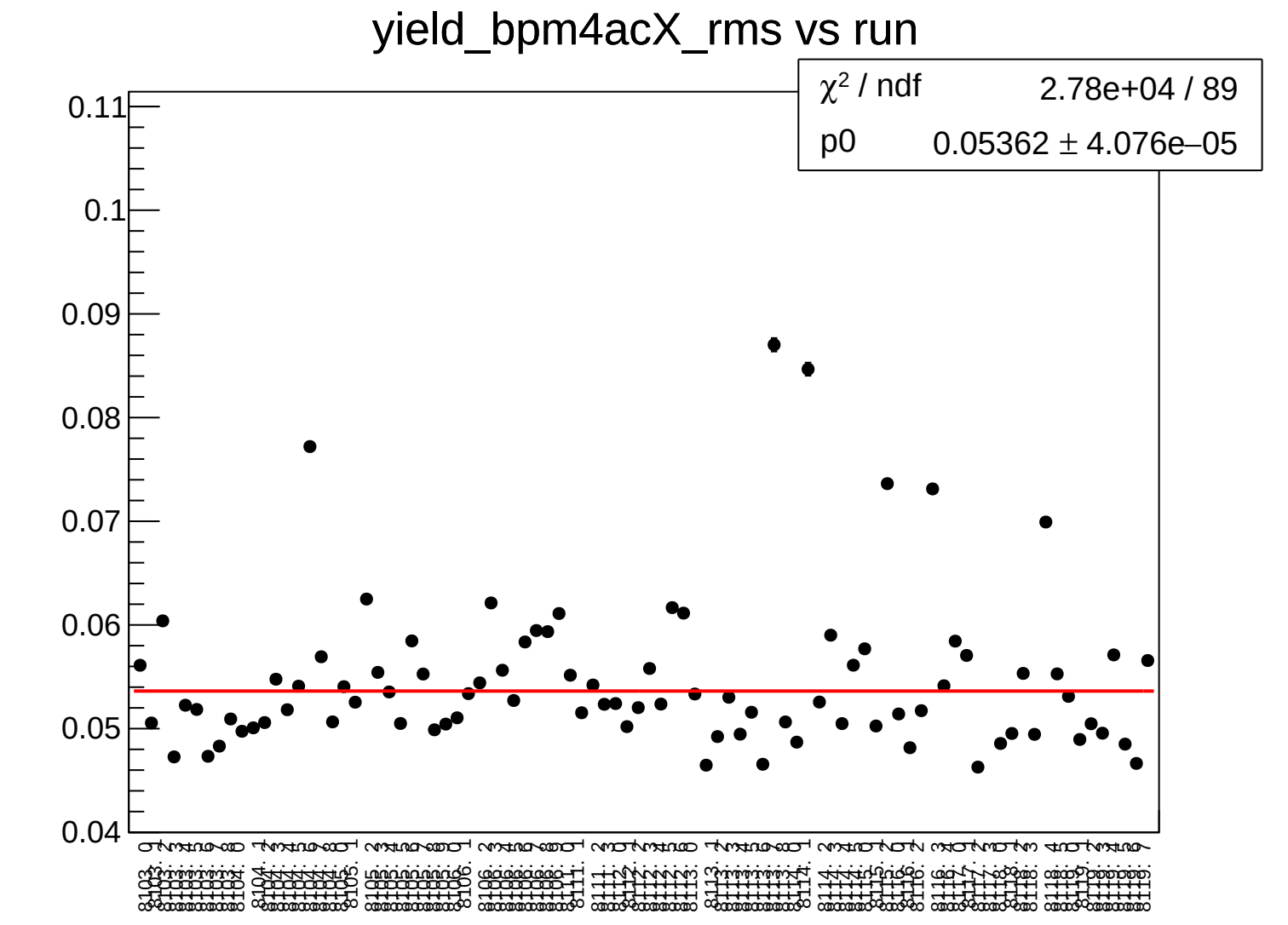

yield_bpm4eY_mean vs run
χ² / ndf 3.04e+05 / 89
p0 0.2264 ± 1.457e−05
0.26
0.25
0.24
0.23
0.22
0.21
0.2
0.19
0.18
0.17
pull
Entries 90
Mean −971.5
Std Dev 0
100
50
0
−50
−100

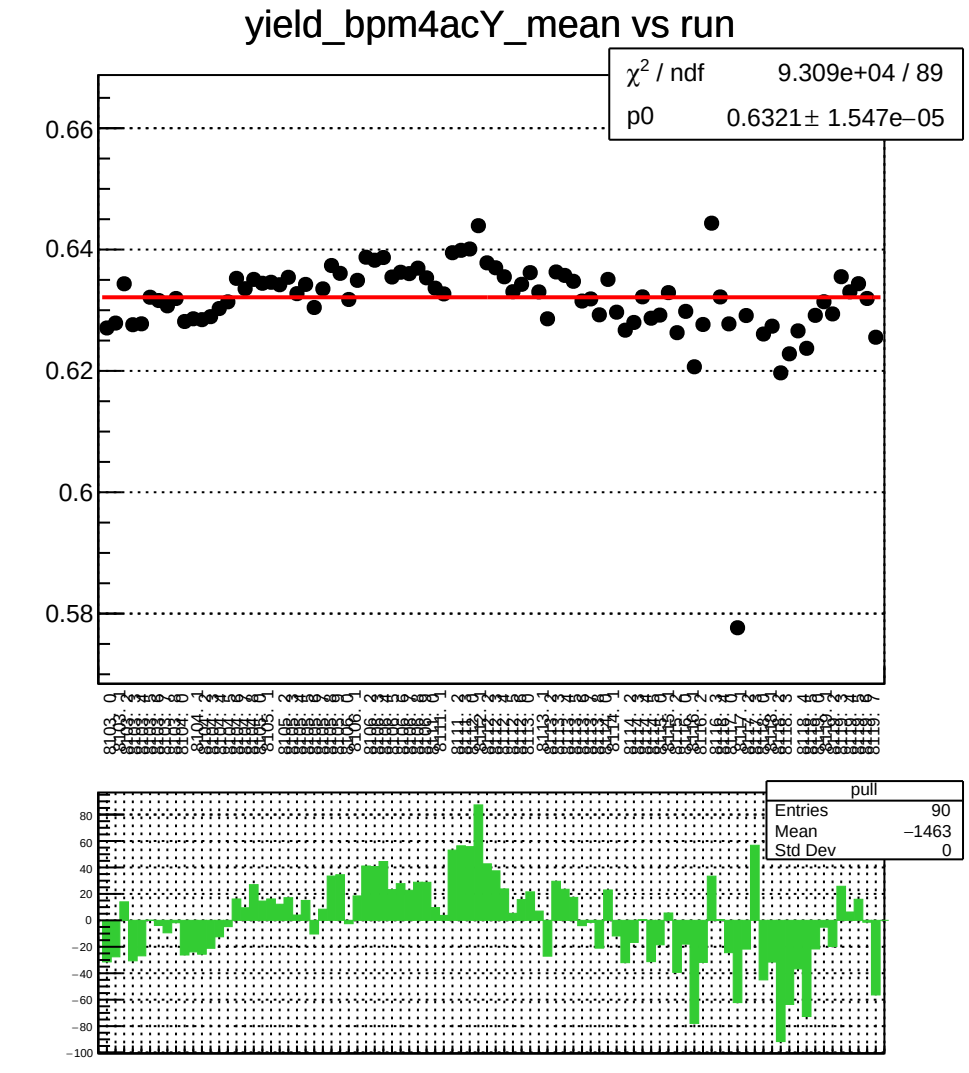

pull1D
Entries 90
Mean −0.9108
Std Dev 3.924
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

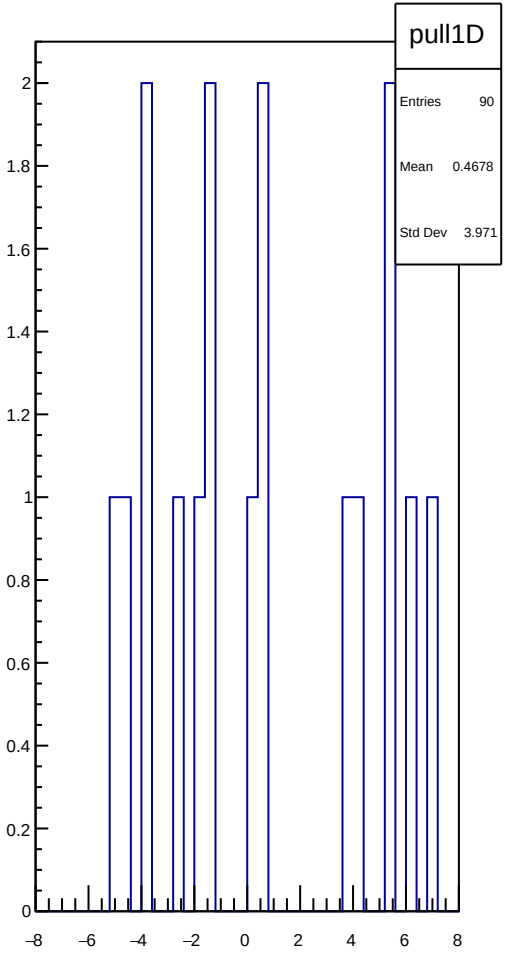

yield_bpm4eY_rms vs run
χ² / ndf 5.592e+04 / 89
p0 0.01344 ± 1.03e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

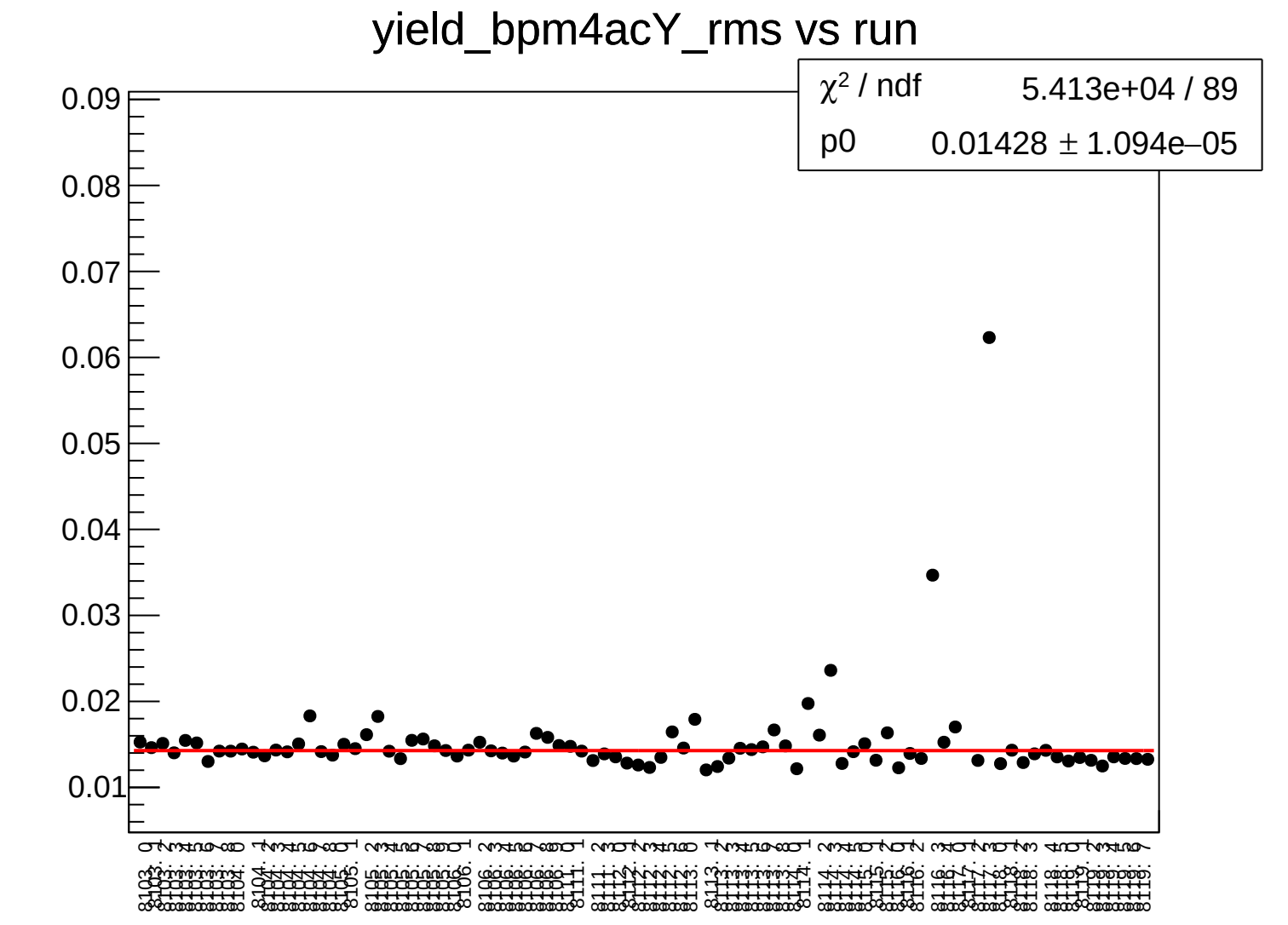

yield_bpm4acX_mean vs run
χ² / ndf 2.322e+04 / 89
p0 −0.9403 ± 5.764e−05
−0.92
−0.93
−0.94
−0.95
−0.96
pull
Entries 90
Mean −89.49
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

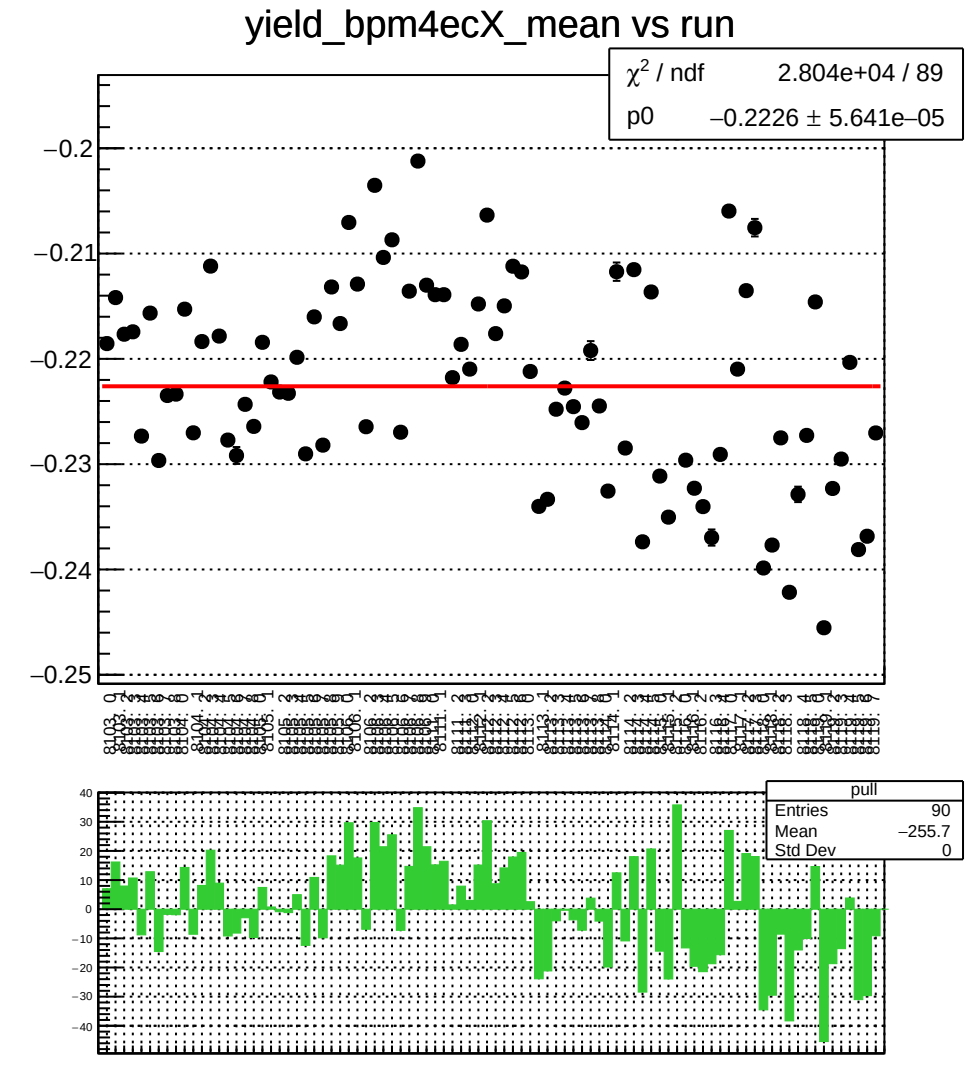

pull1D
Entries 90
Mean 0.5381
Std Dev 5.007
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

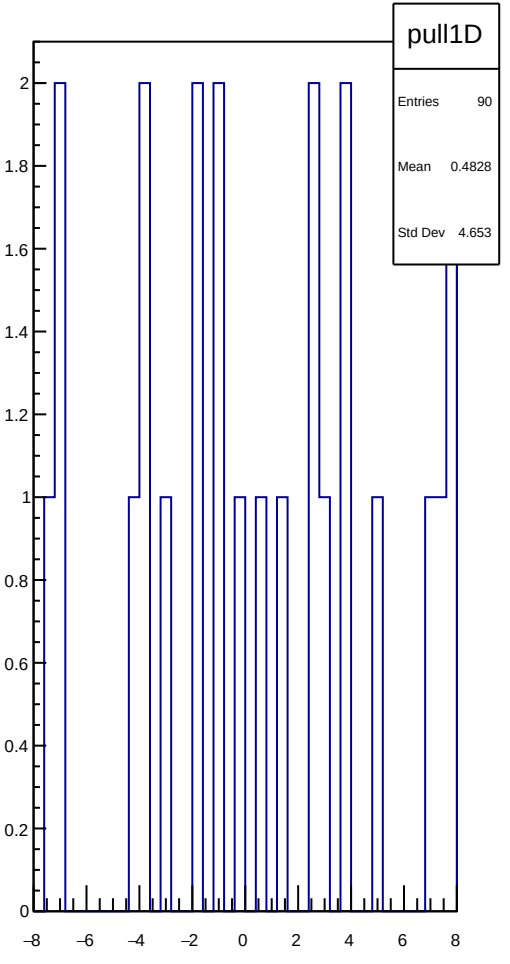

yield_bpm4acX_rms vs run
χ² / ndf 2.78e+04 / 89
p0 0.05362 ± 4.076e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

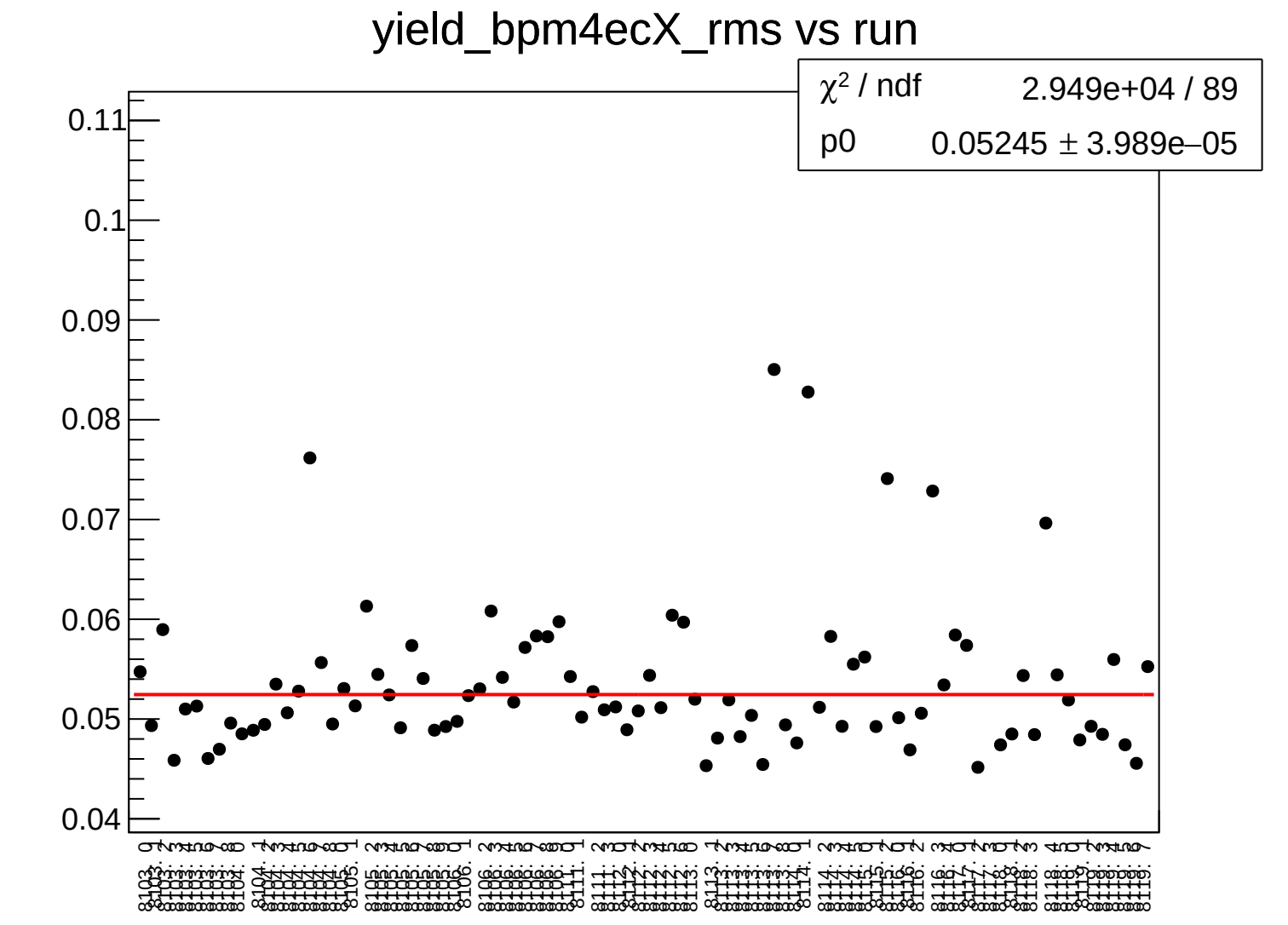

yield_bpm4acY_mean vs run
χ² / ndf 9.309e+04 / 89
p0 0.6321 ± 1.547e−05
0.66
0.64
0.62
0.6
0.58
pull
Entries 90
Mean −1463
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

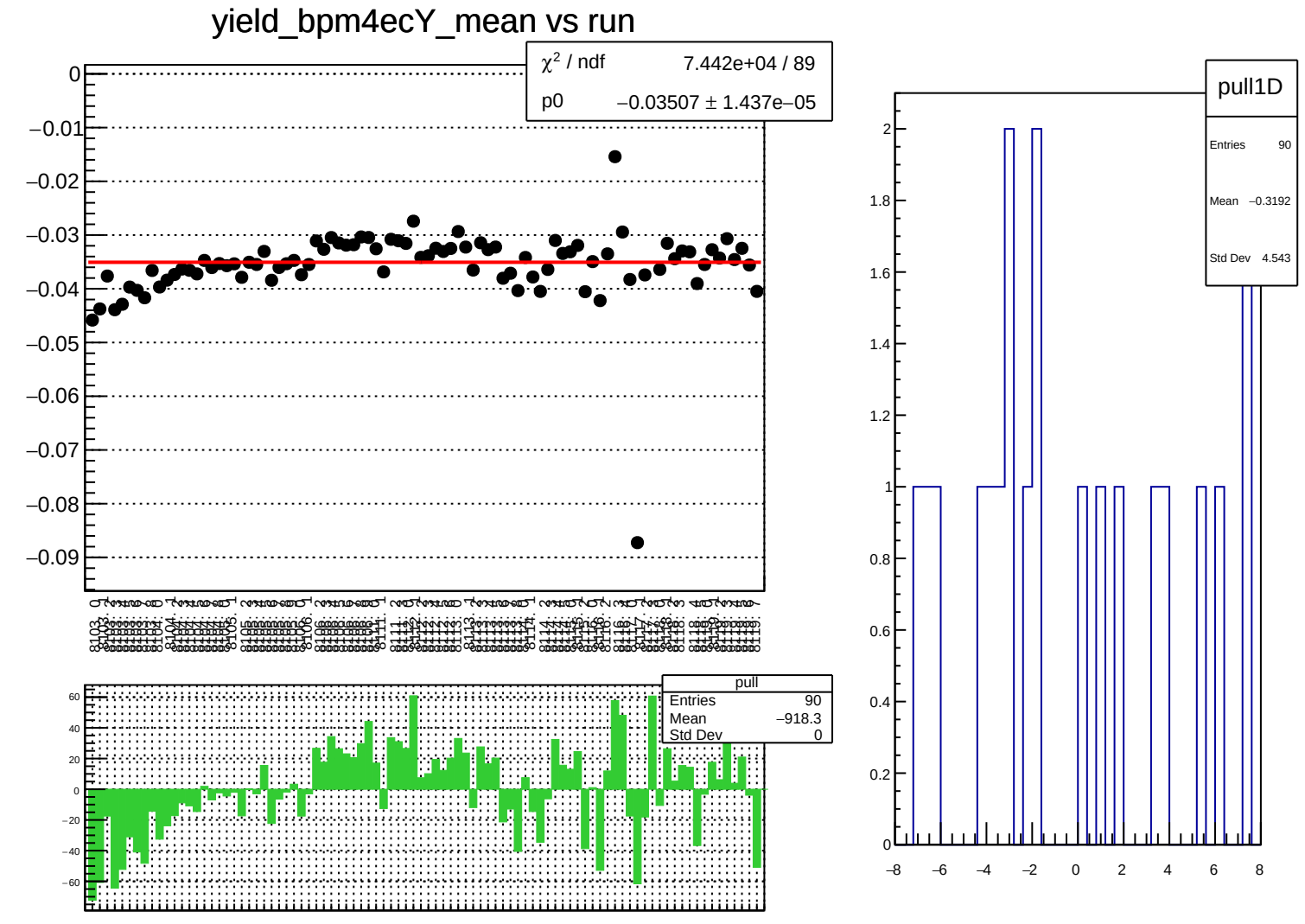

pull1D
Entries 90
Mean 0.4678
Std Dev 3.971
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

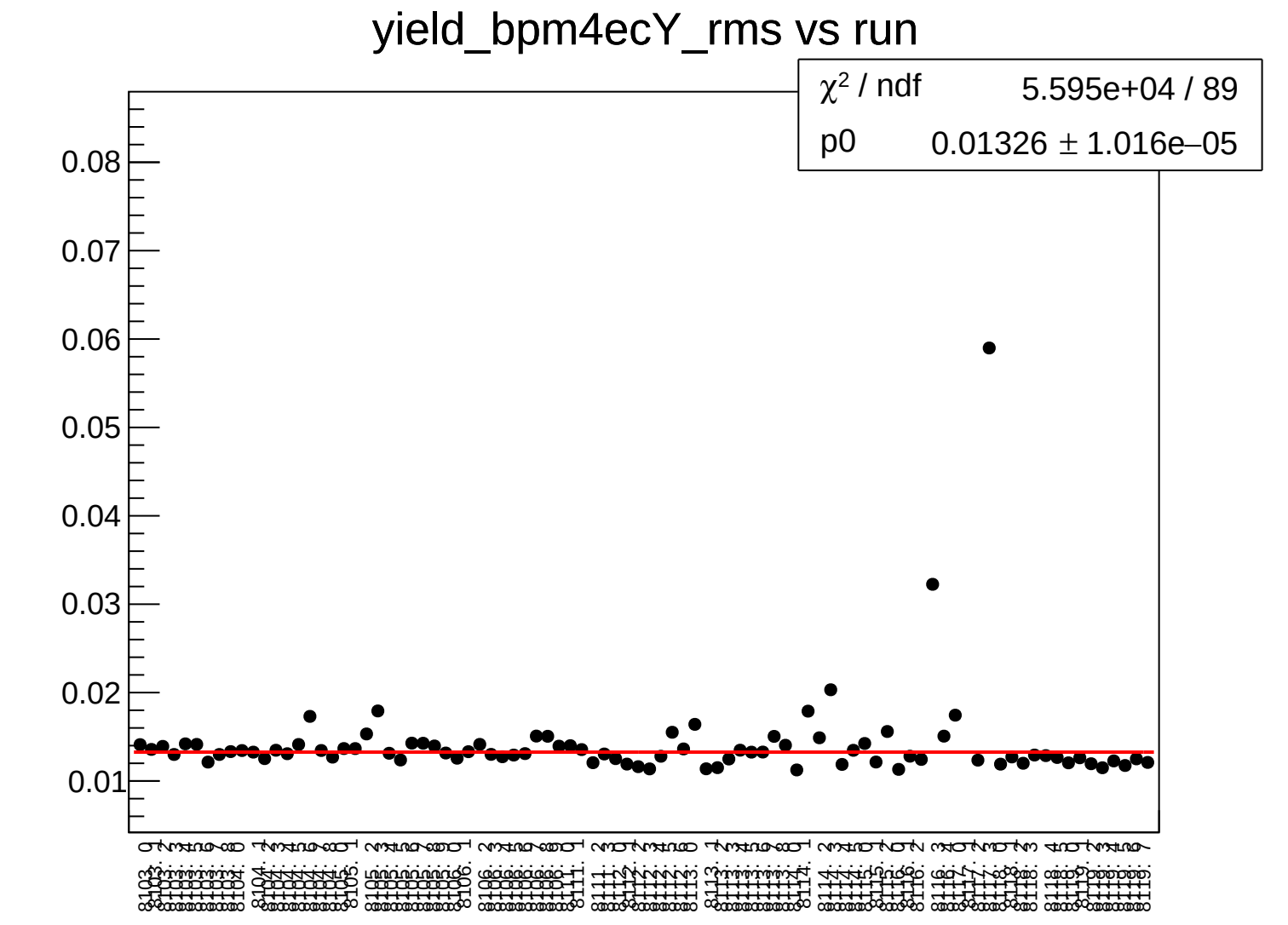

yield_bpm4acY_rms vs run
χ² / ndf 5.413e+04 / 89
p0 0.01428 ± 1.094e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

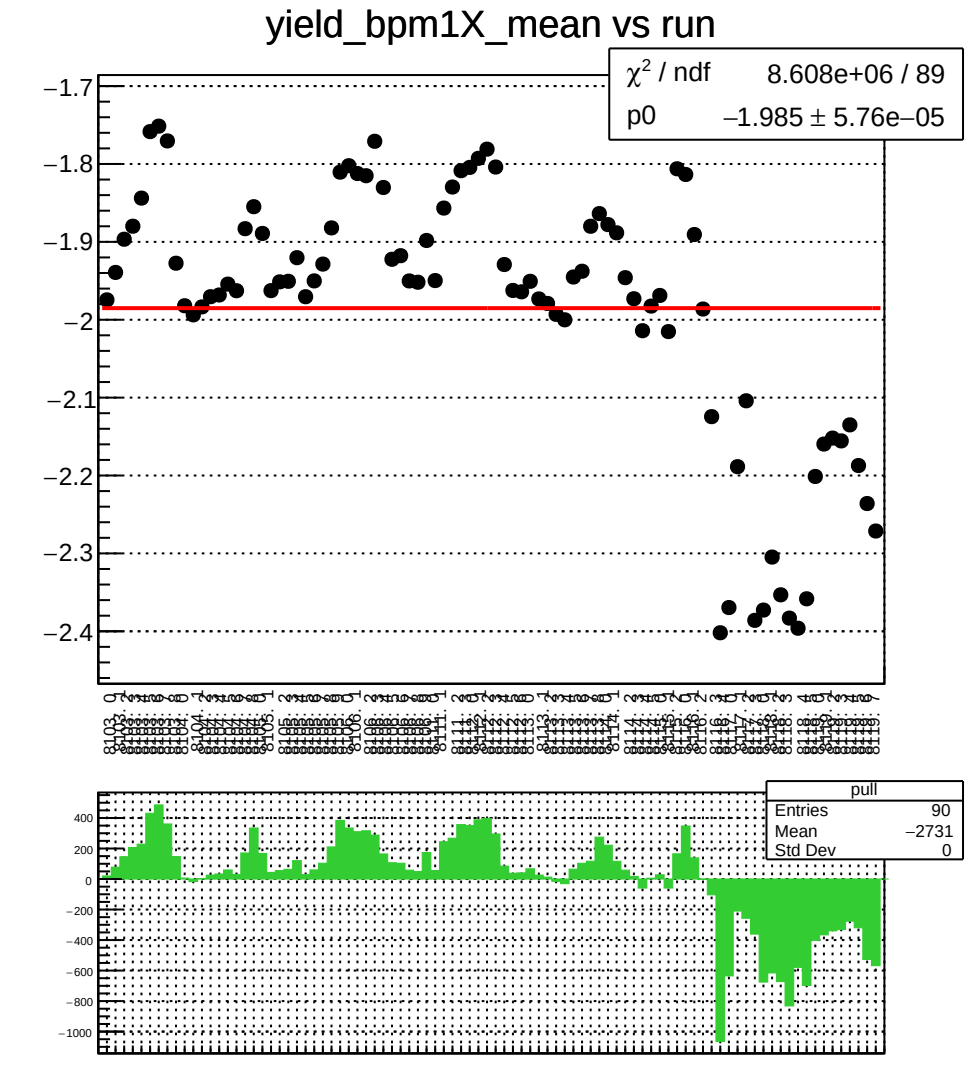

yield_bpm4ecX_mean vs run
χ² / ndf 2.804e+04 / 89
p0 −0.2226 ± 5.641e−05
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
pull
Entries 90
Mean −255.7
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

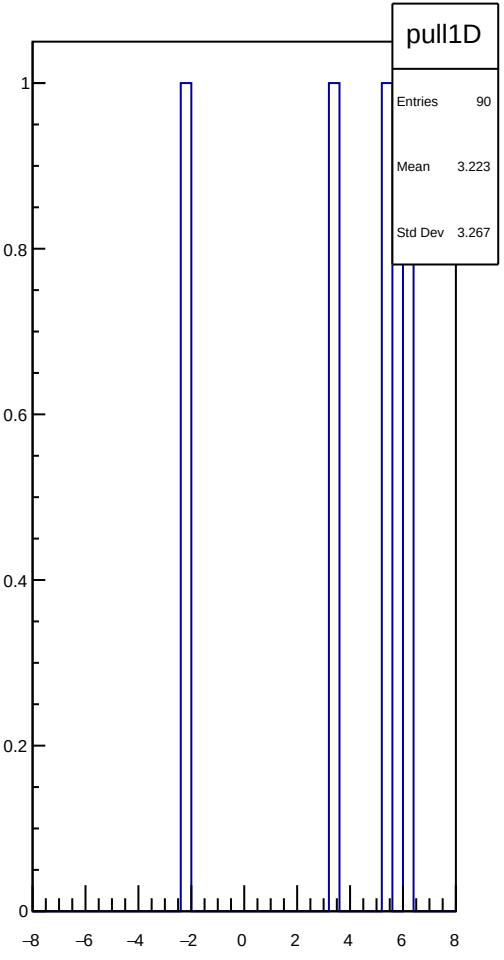

pull1D
Entries 90
Mean 0.4828
Std Dev 4.653
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

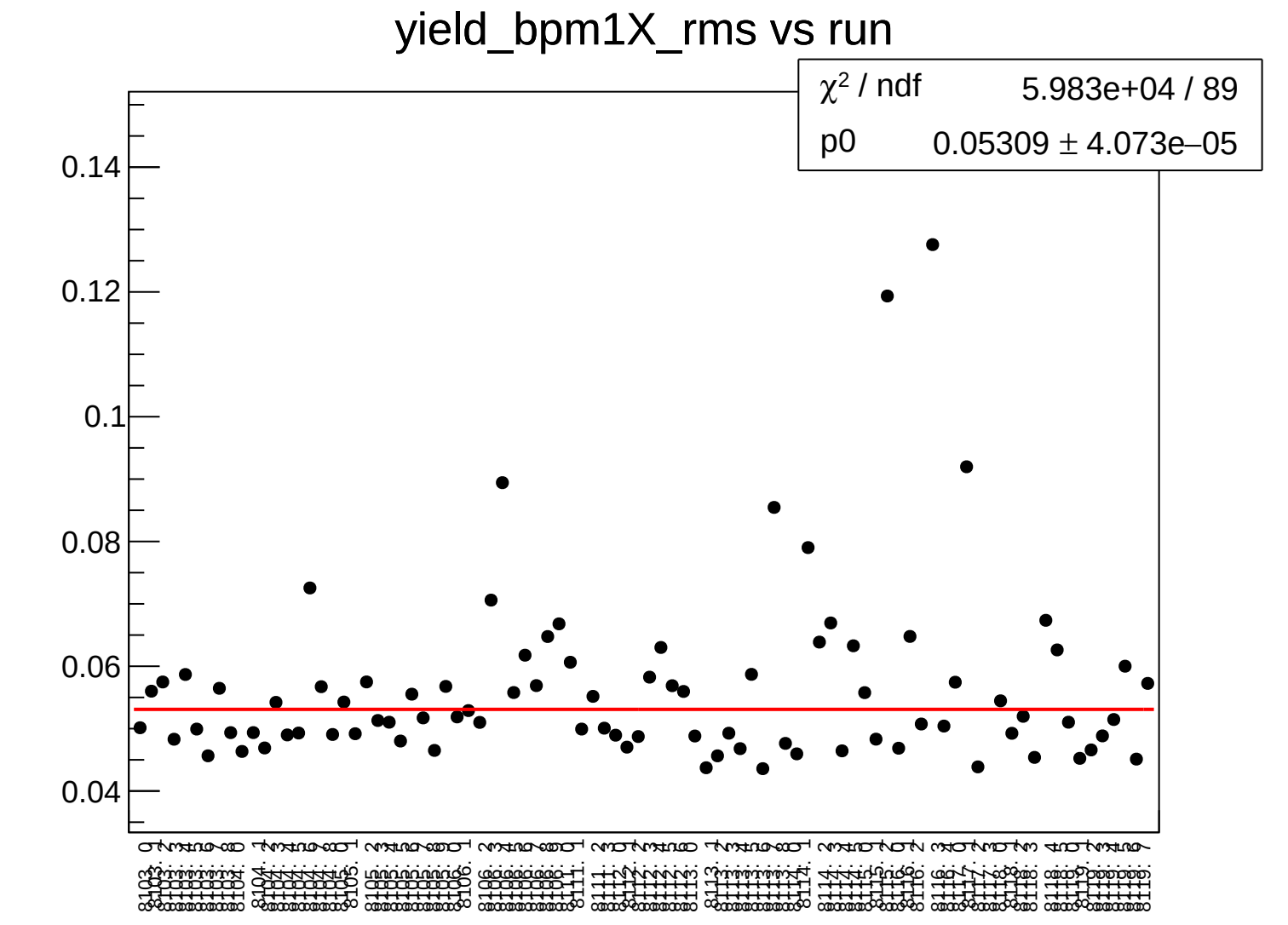

yield_bpm4ecX_rms vs run
χ² / ndf 2.949e+04 / 89
p0 0.05245 ± 3.989e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

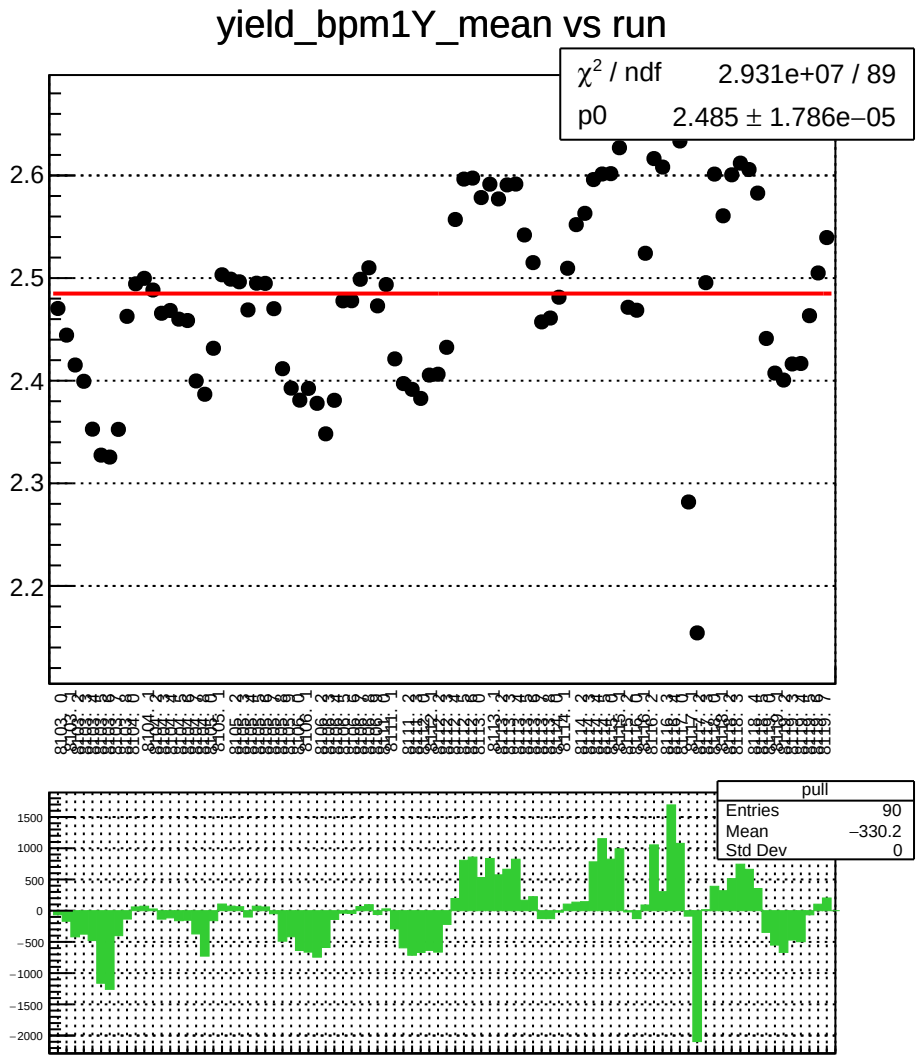

yield_bpm4ecY_mean vs run
χ² / ndf 7.442e+04 / 89
p0 −0.03507 ± 1.437e−05
pull
Entries 90
Mean −918.3
Std Dev 0
pull1D
Entries 90
Mean −0.3192
Std Dev 4.543

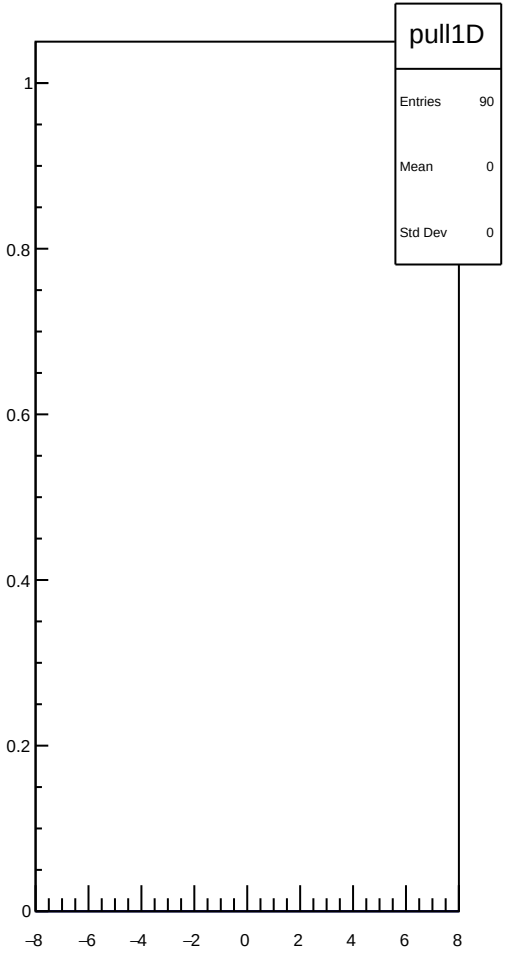

yield_bpm4ecY_rms vs run
χ² / ndf 5.595e+04 / 89
p0 0.01326 ± 1.016e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

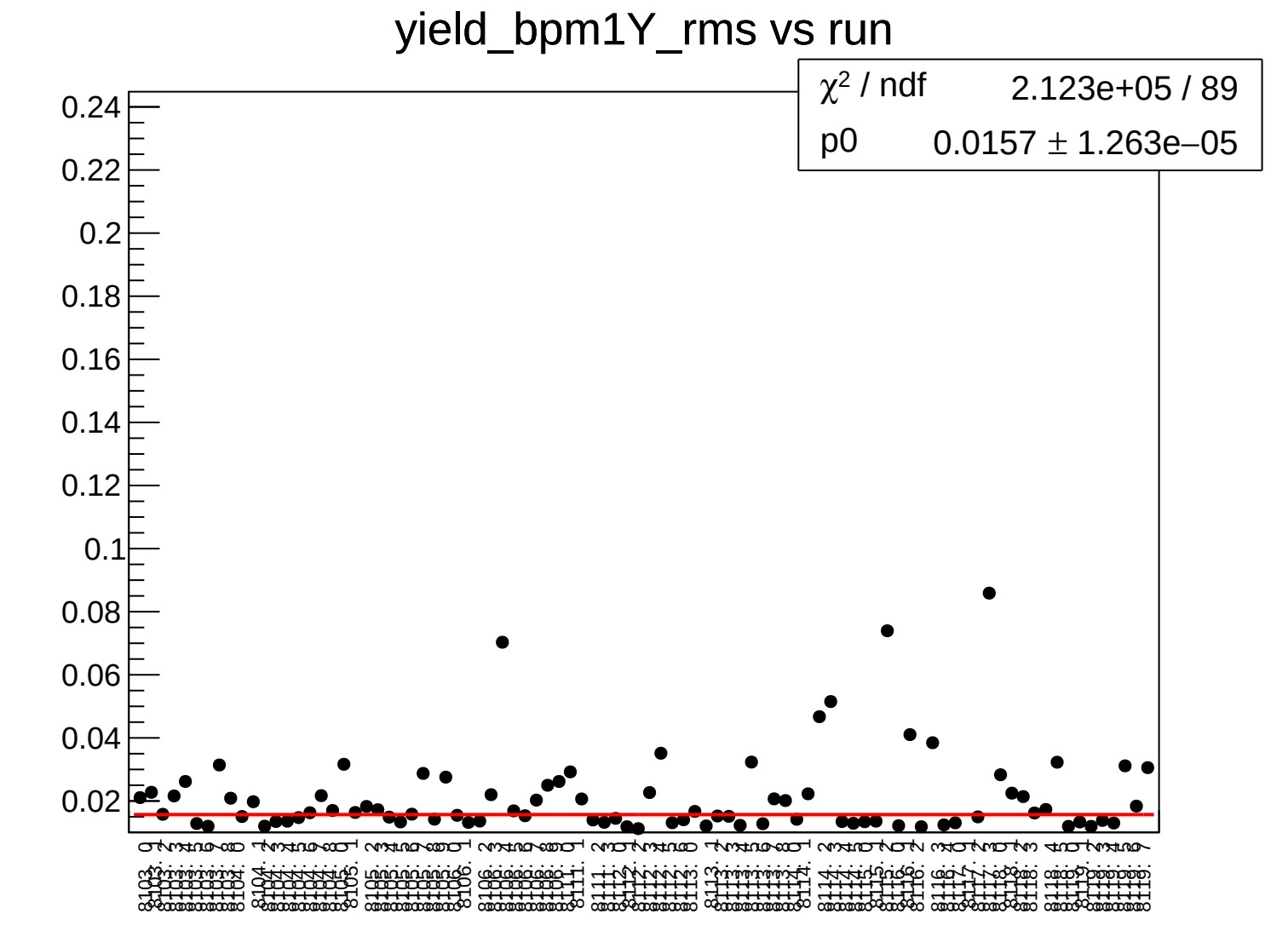

yield_bpm1X_mean vs run
χ² / ndf 8.608e+06 / 89
p0 −1.985 ± 5.76e−05
pull
Entries 90
Mean −2731
Std Dev 0

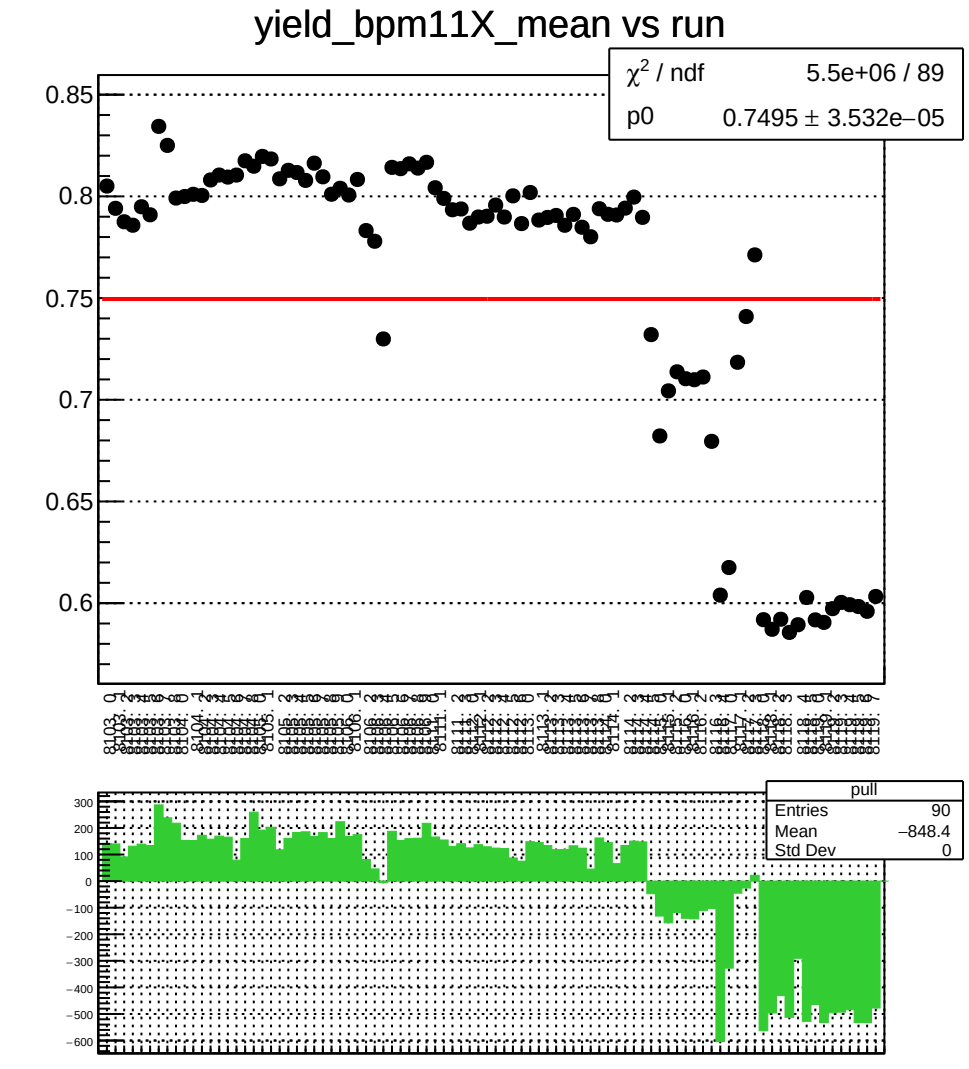

pull1D
Entries 90
Mean 3.223
Std Dev 3.267

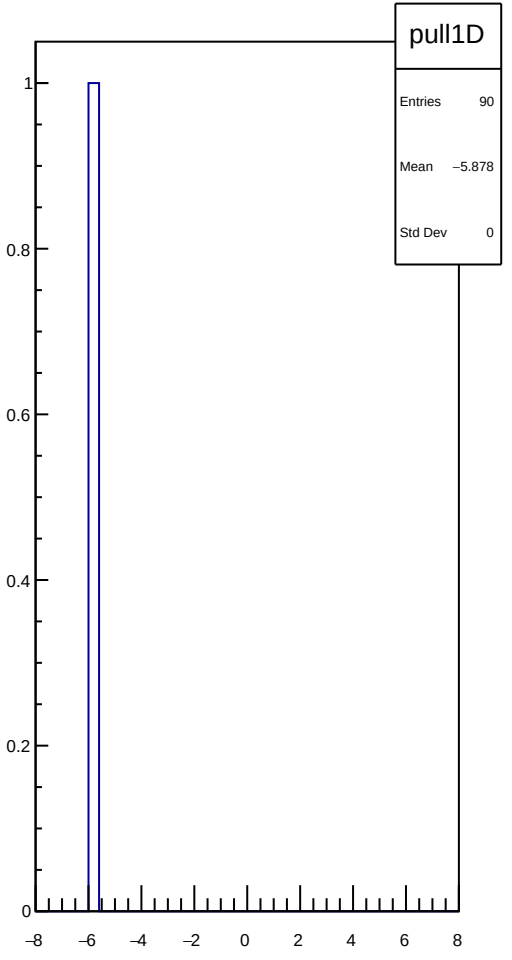

yield_bpm1X_rms vs run
χ² / ndf 5.983e+04 / 89
p0 0.05309 ± 4.073e–05
0.14
0.12
0.1
0.08
0.06
0.04

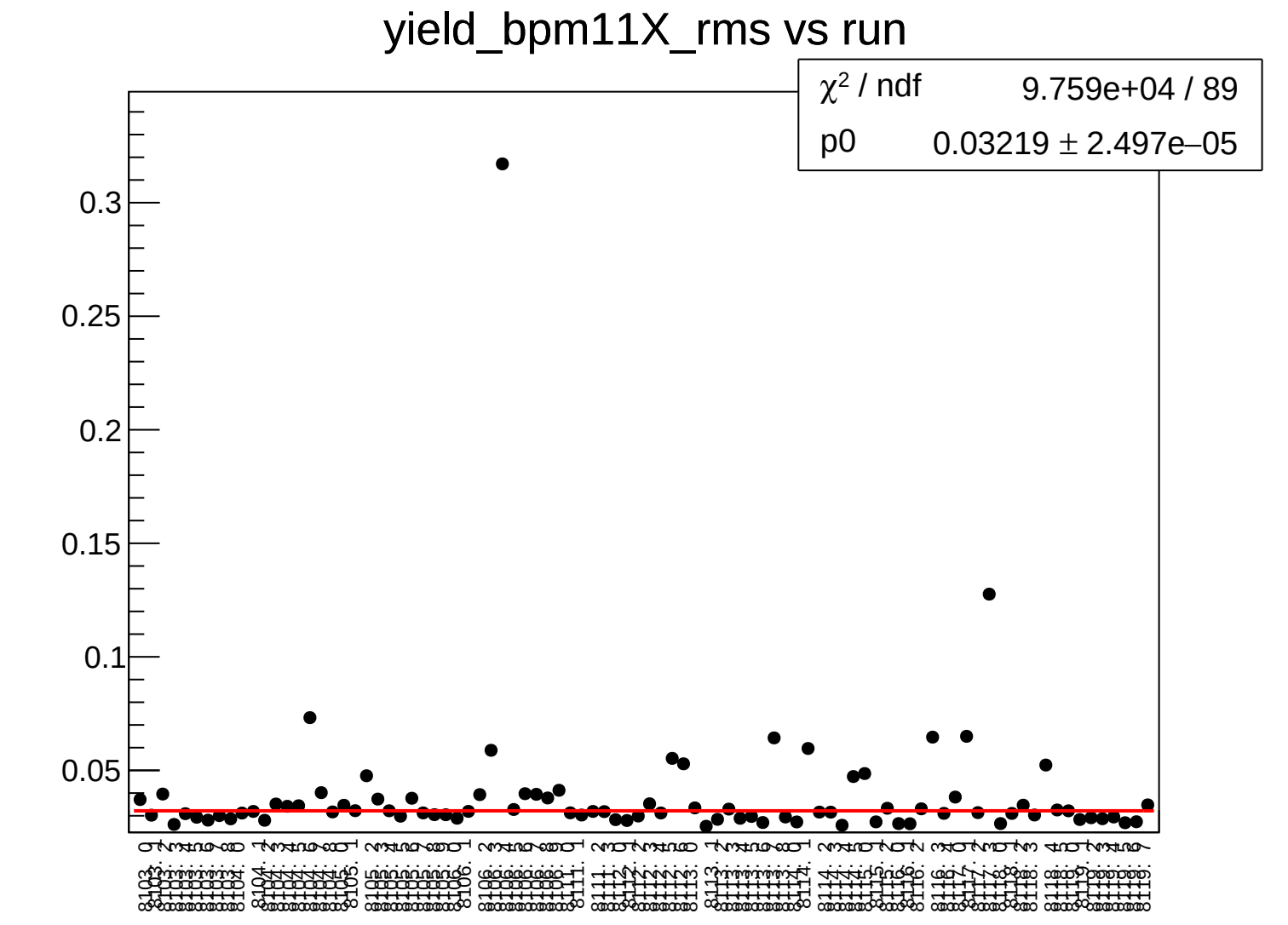

yield_bpm1Y_mean vs run
χ² / ndf 2.931e+07 / 89
p0 2.485 ± 1.786e−05
2.6
2.5
2.4
2.3
2.2
pull
Entries 90
Mean −330.2
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

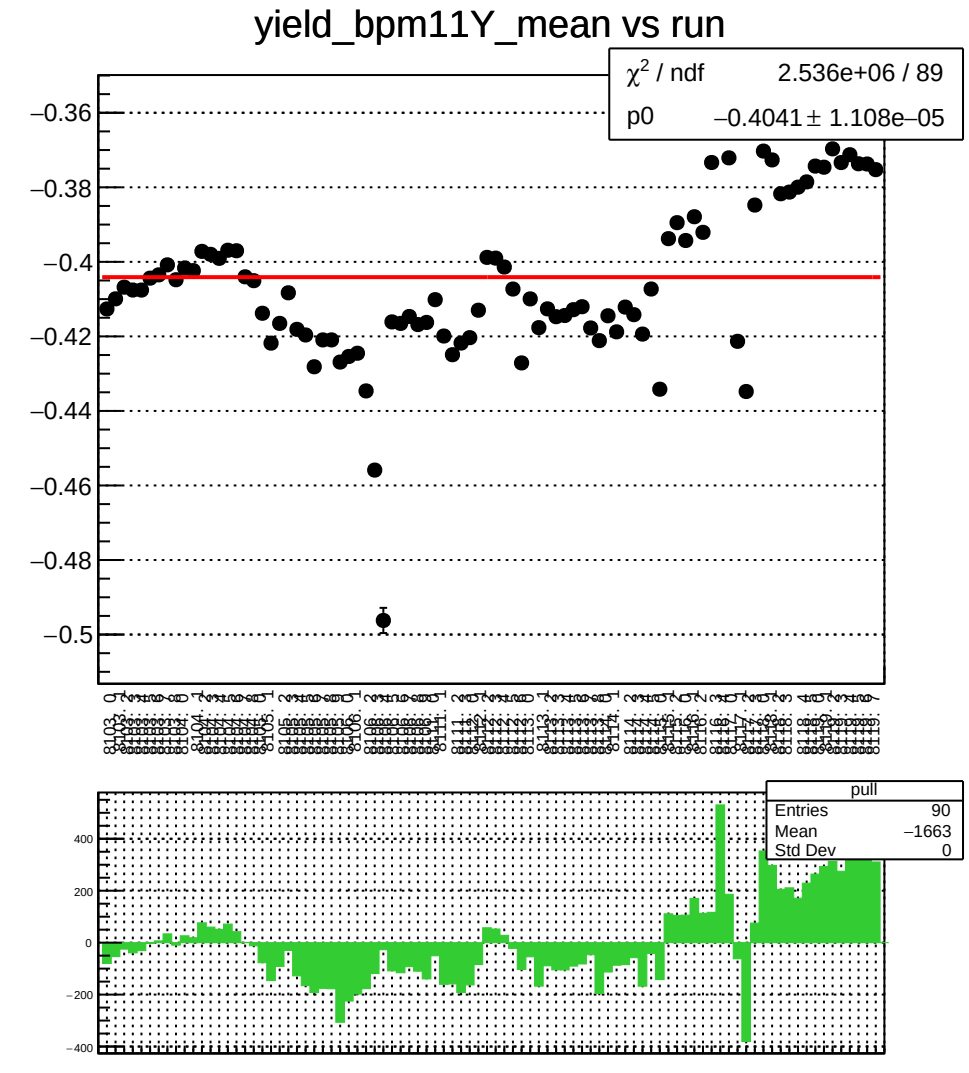

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

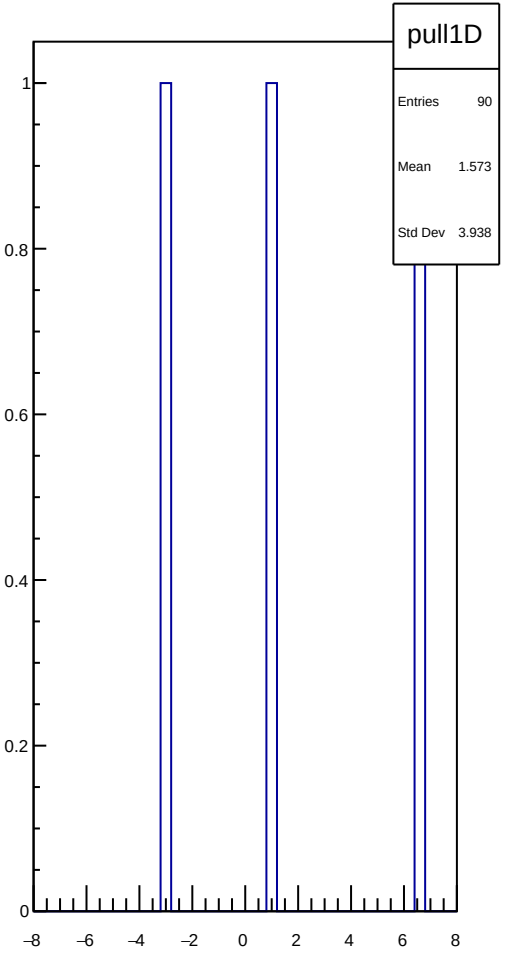

yield_bpm1Y_rms vs run
χ² / ndf 2.123e+05 / 89
p0 0.0157 ± 1.263e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

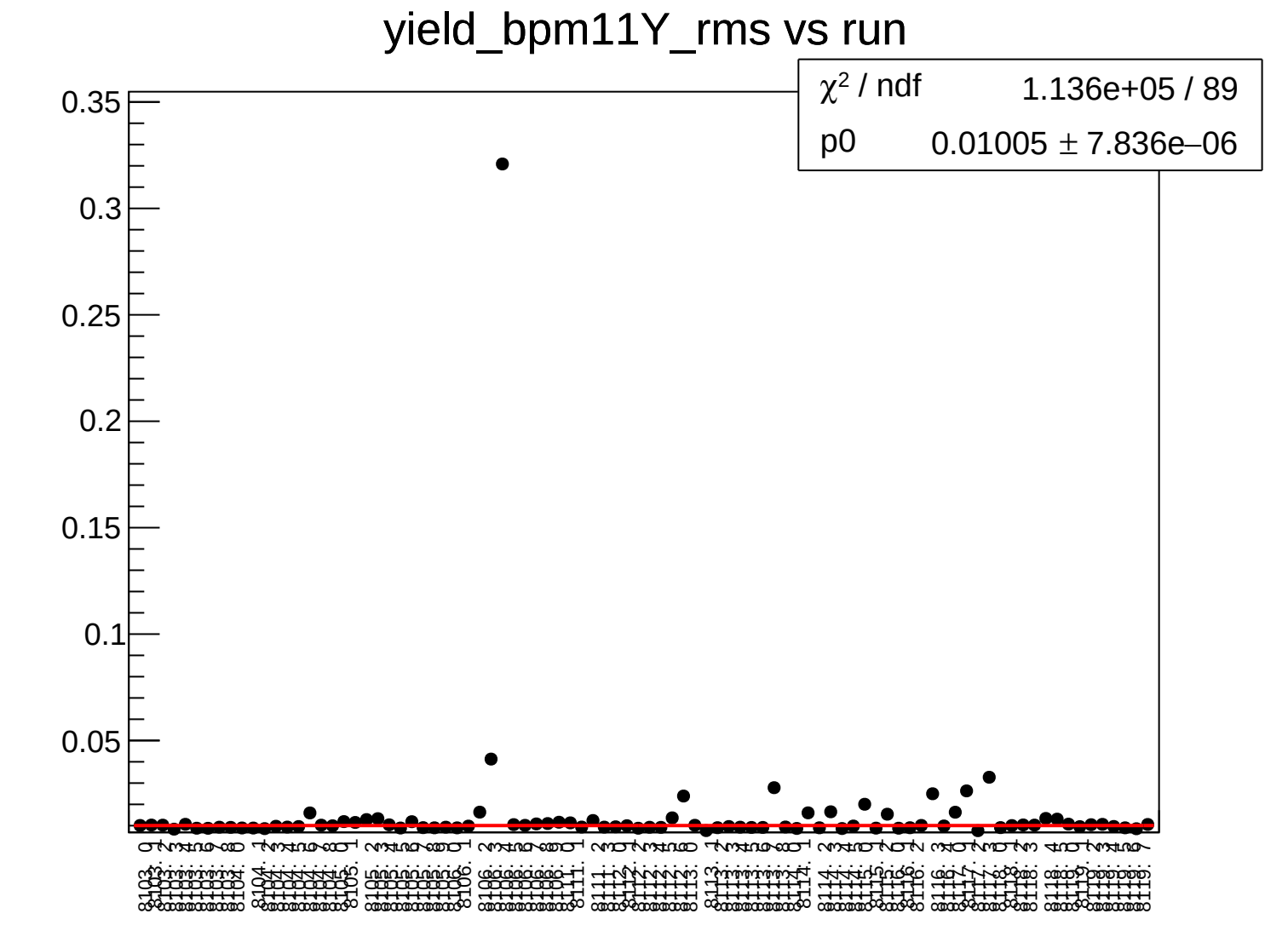

yield_bpm11X_mean vs run
χ² / ndf 5.5e+06 / 89
p0 0.7495 ± 3.532e−05
0.85
0.8
0.75
0.7
0.65
0.6
pull
Entries 90
Mean −848.4
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

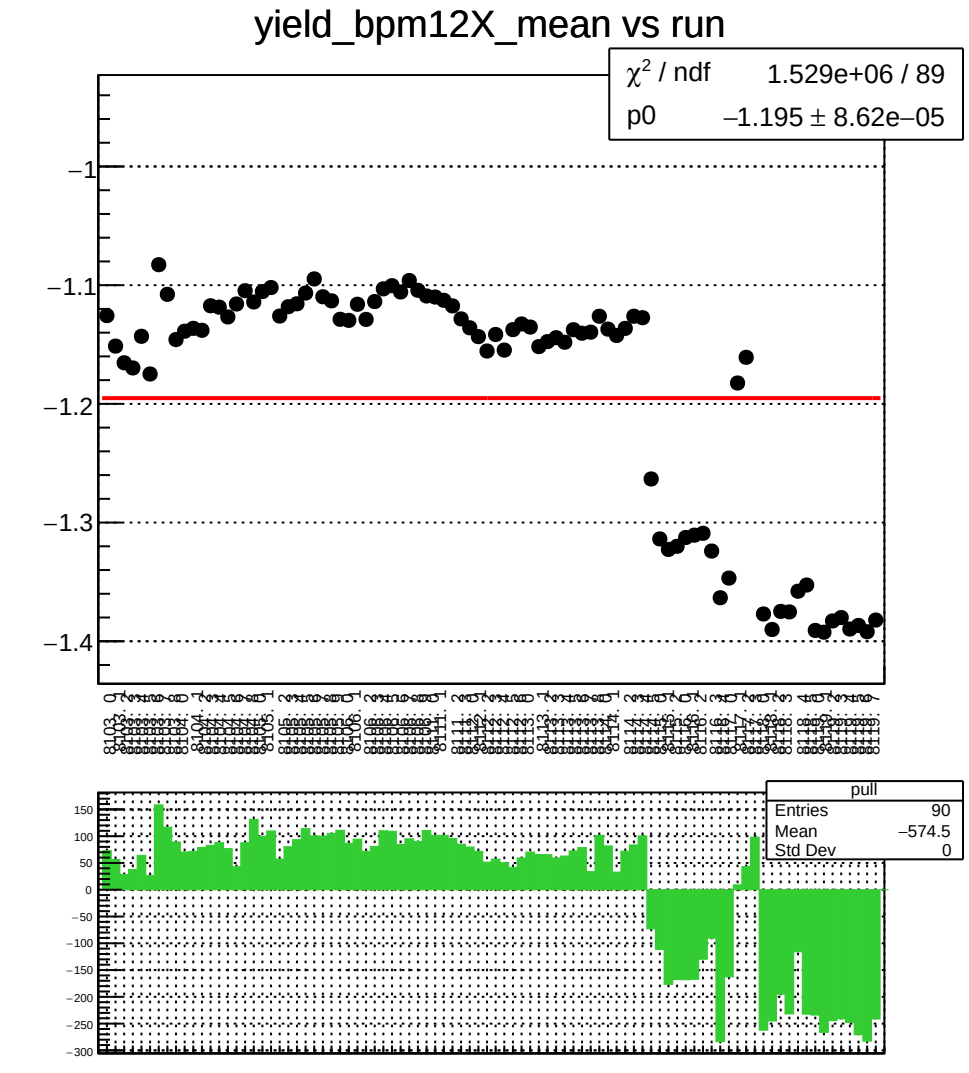

pull1D
Entries 90
Mean −5.878
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

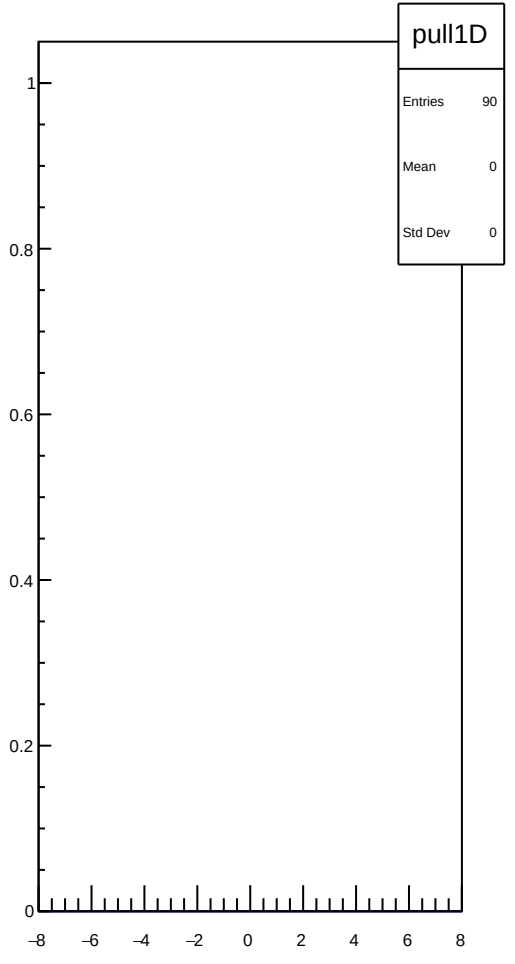

yield_bpm11X_rms vs run
χ² / ndf 9.759e+04 / 89
p0 0.03219 ± 2.497e–05
0.3
0.25
0.2
0.15
0.1
0.05

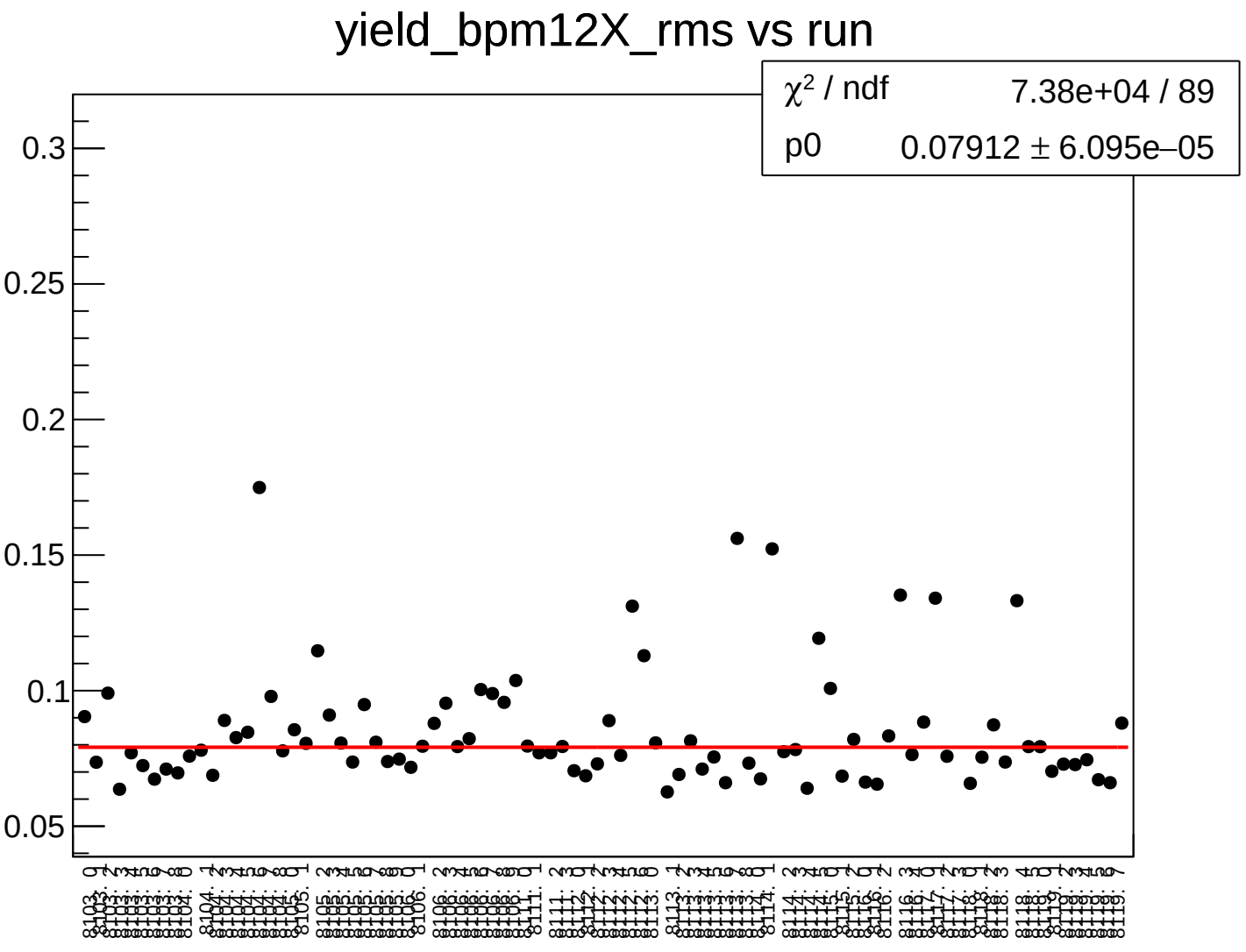

yield_bpm11Y_mean vs run
χ² / ndf 2.536e+06 / 89
p0 −0.4041 ± 1.108e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 90
Mean −1663
Std Dev 0
400
200
0
−200
−400

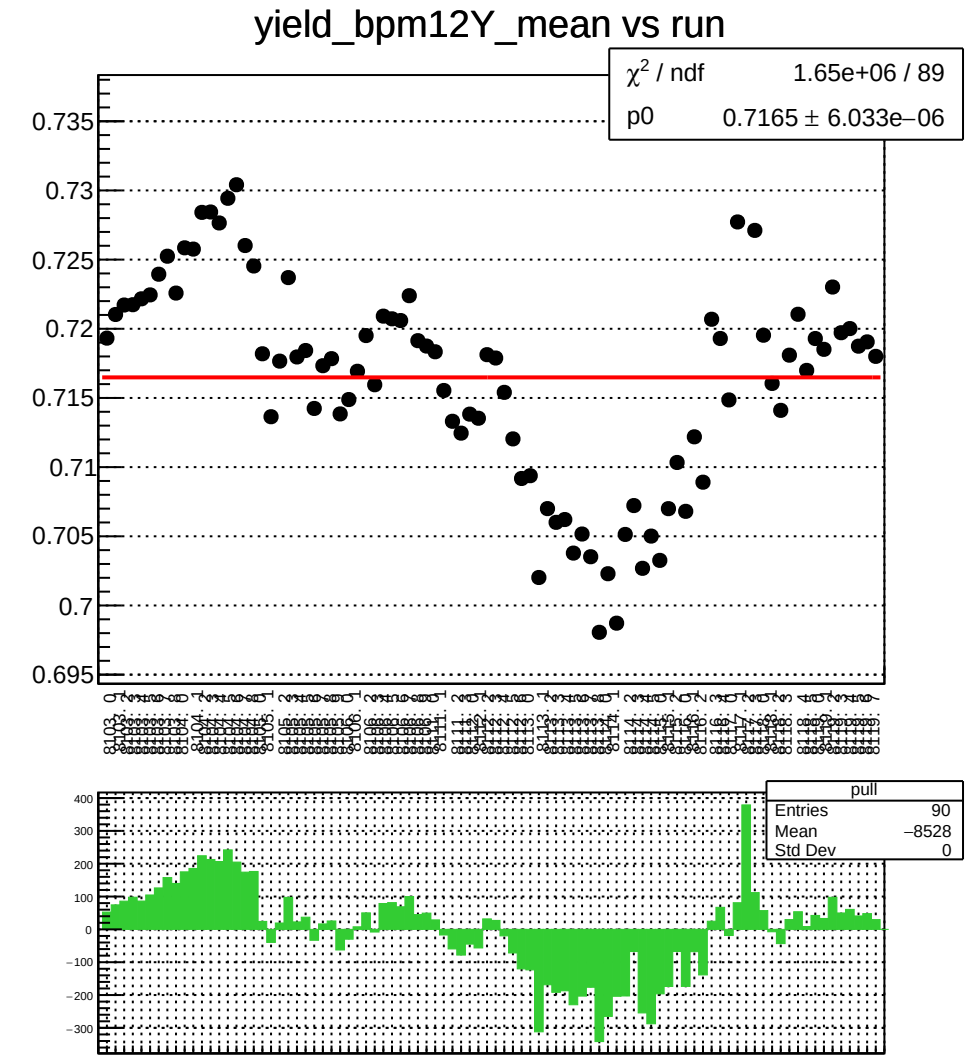

pull1D
Entries 90
Mean 1.573
Std Dev 3.938
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

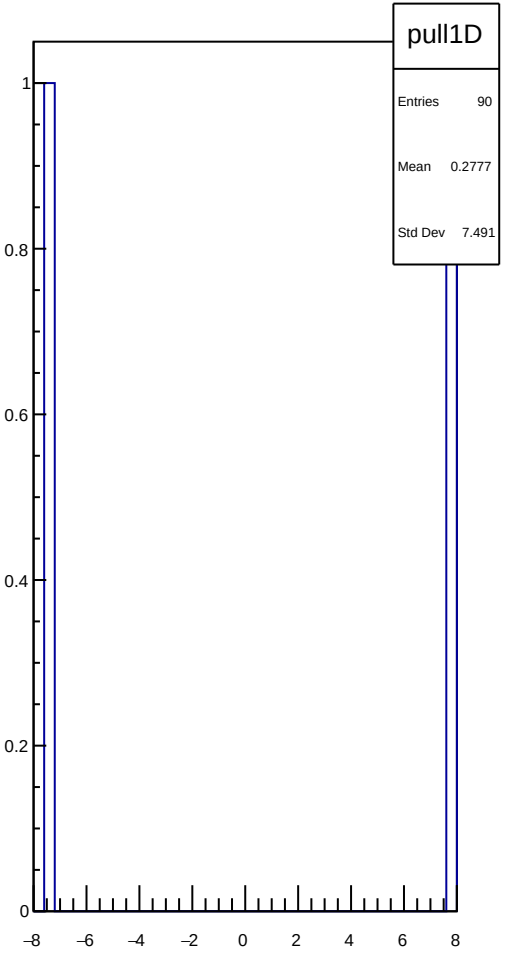

yield_bpm11Y_rms vs run
χ² / ndf 1.136e+05 / 89
p0 0.01005 ± 7.836e–06
0.35
0.3
0.25
0.2
0.15
0.1
0.05

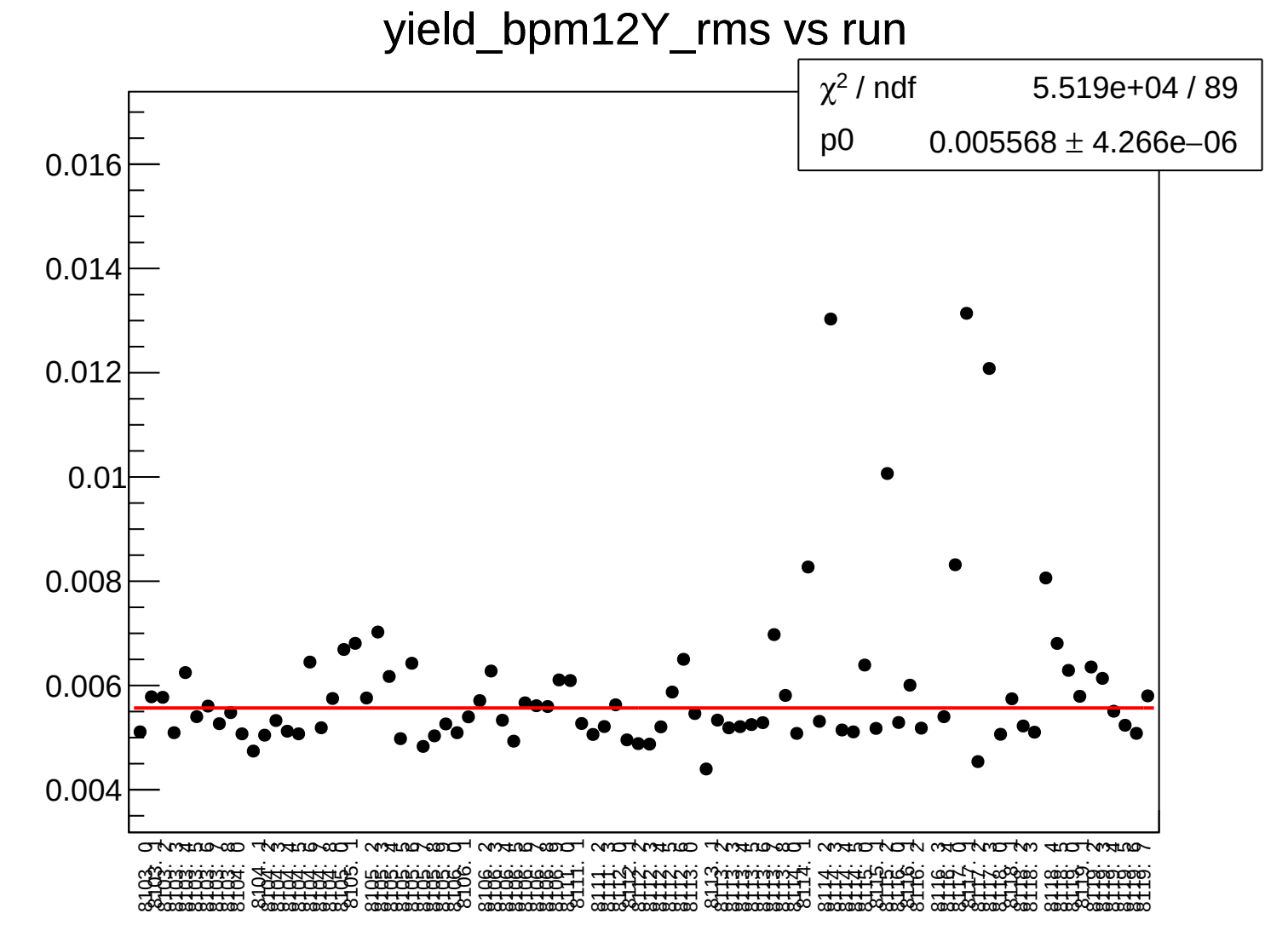

yield_bpm12X_mean vs run
χ² / ndf 1.529e+06 / 89
p0 −1.195 ± 8.62e−05
−1
−1.1
−1.2
−1.3
−1.4
pull
Entries 90
Mean −574.5
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
−300

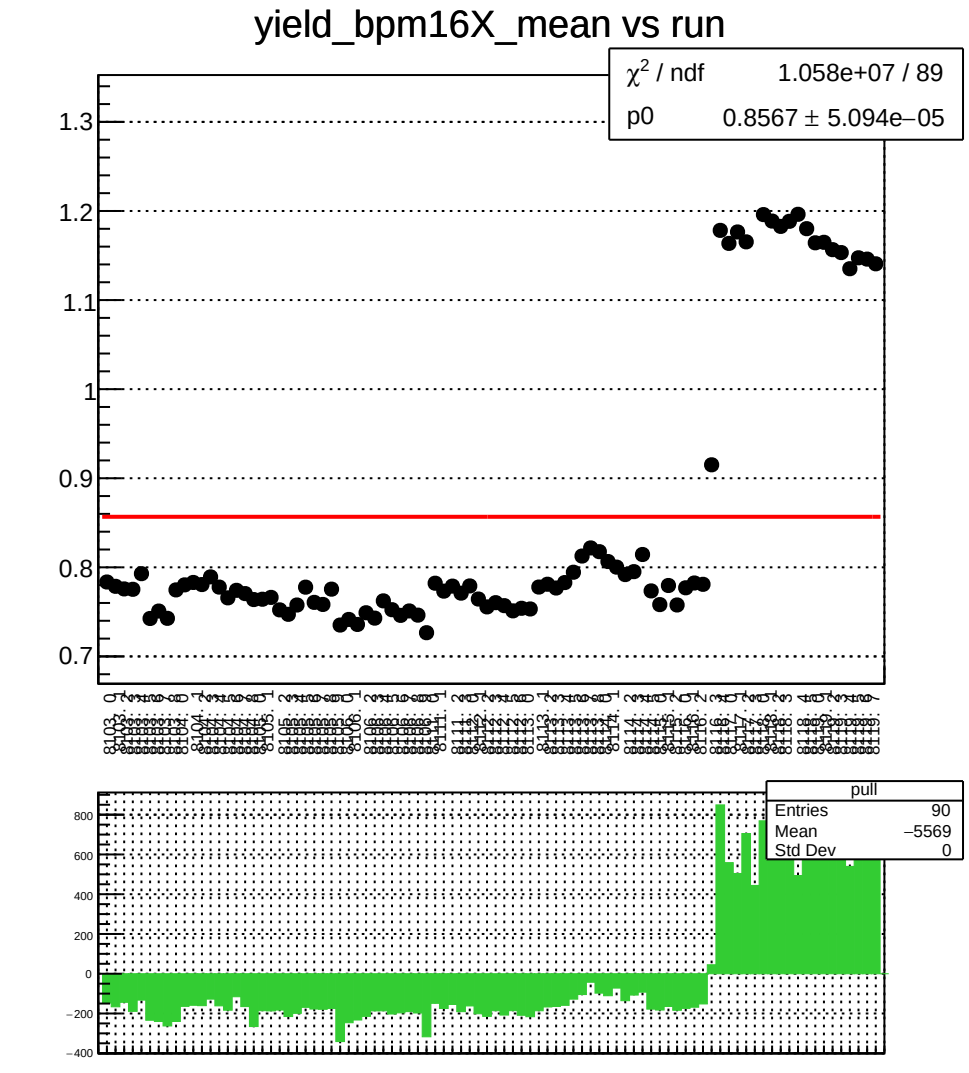

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

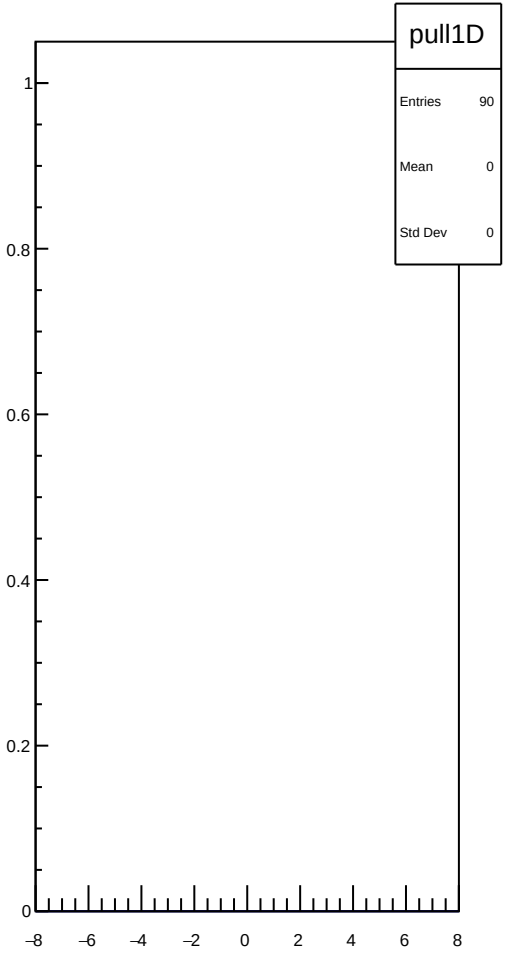

yield_bpm12X_rms vs run
χ² / ndf 7.38e+04 / 89
p0 0.07912 ± 6.095e−05
0.3
0.25
0.2
0.15
0.1
0.05

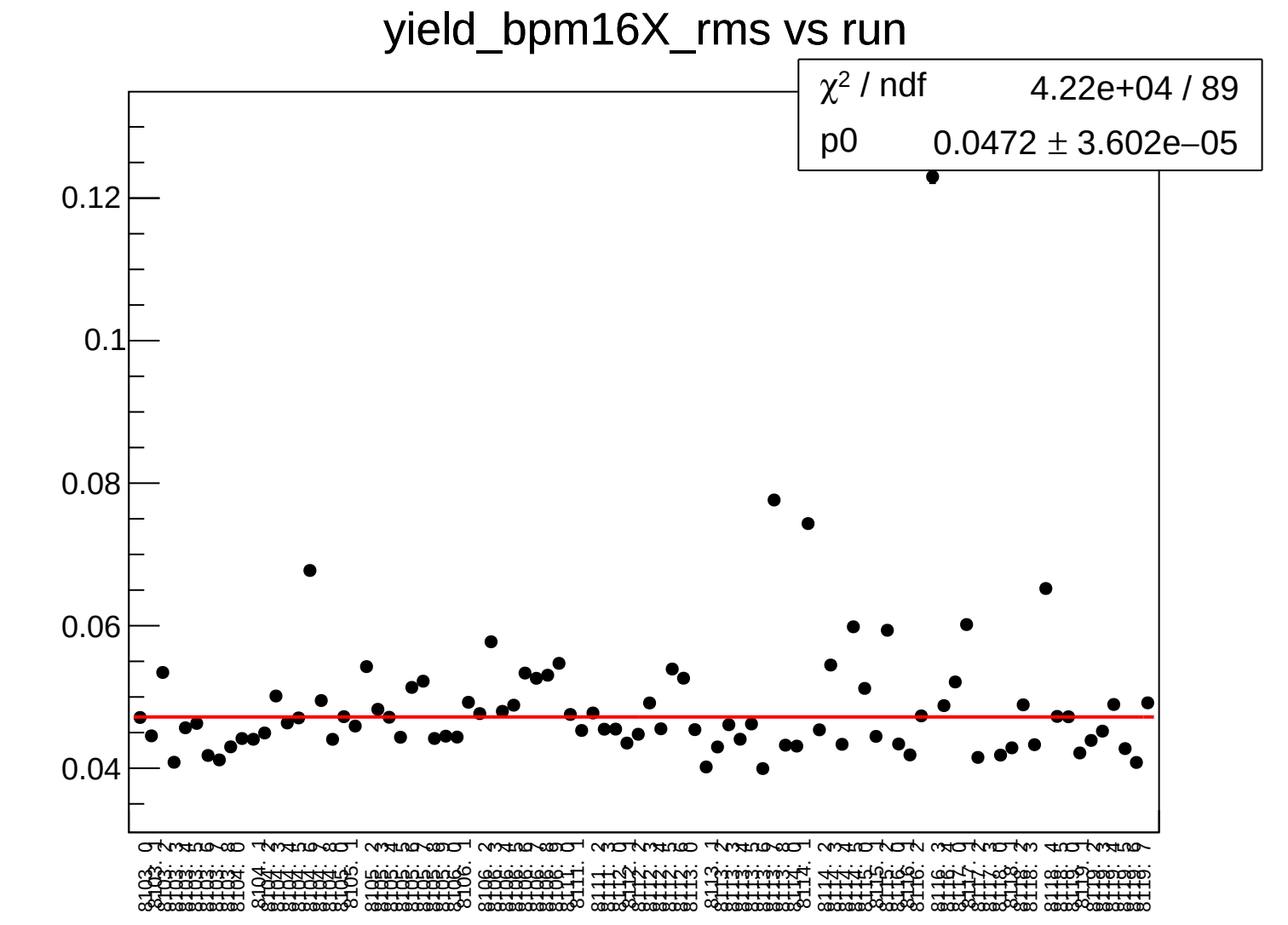

yield_bpm12Y_mean vs run
χ² / ndf 1.65e+06 / 89
p0 0.7165 ± 6.033e−06
0.735
0.73
0.725
0.72
0.715
0.71
0.705
0.7
0.695
pull
Entries 90
Mean −8528
Std Dev 0
400
300
200
100
0
−100
−200
−300

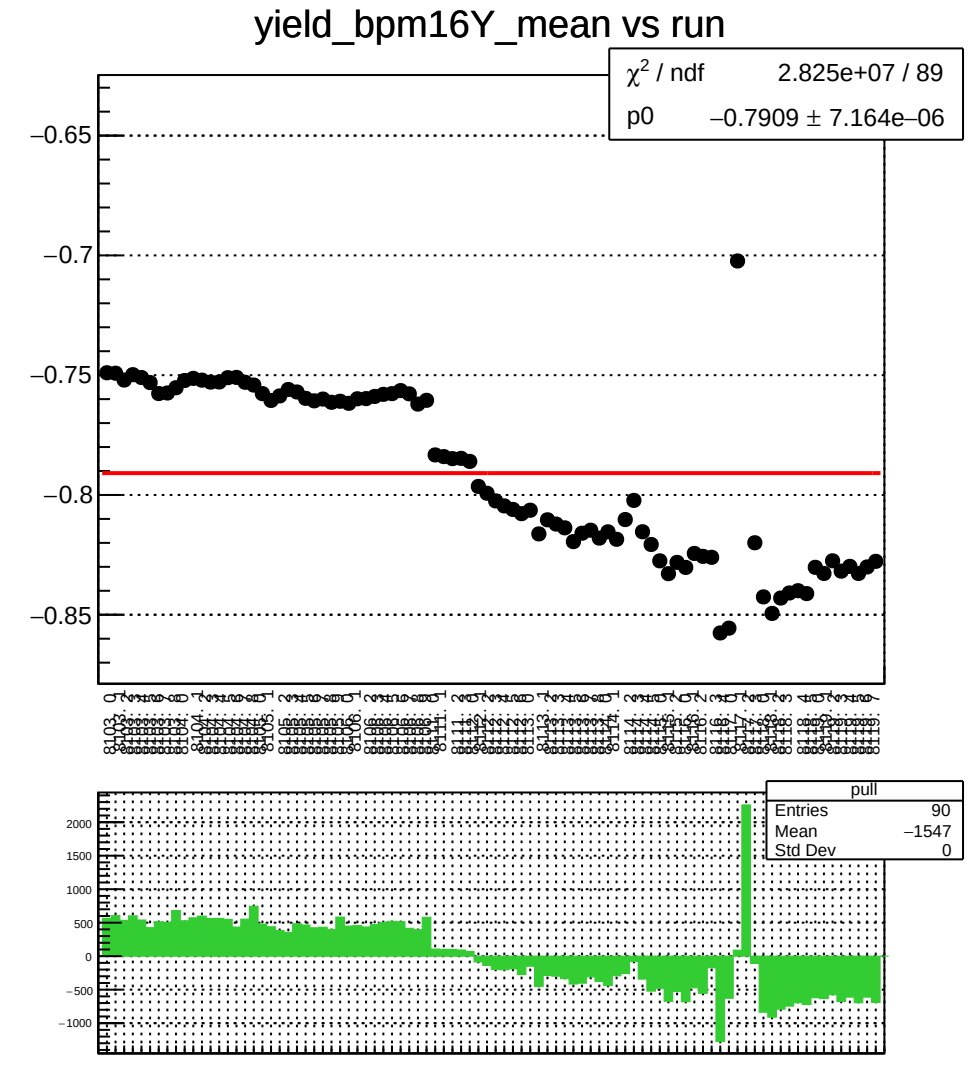

pull1D
Entries 90
Mean 0.2777
Std Dev 7.491
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

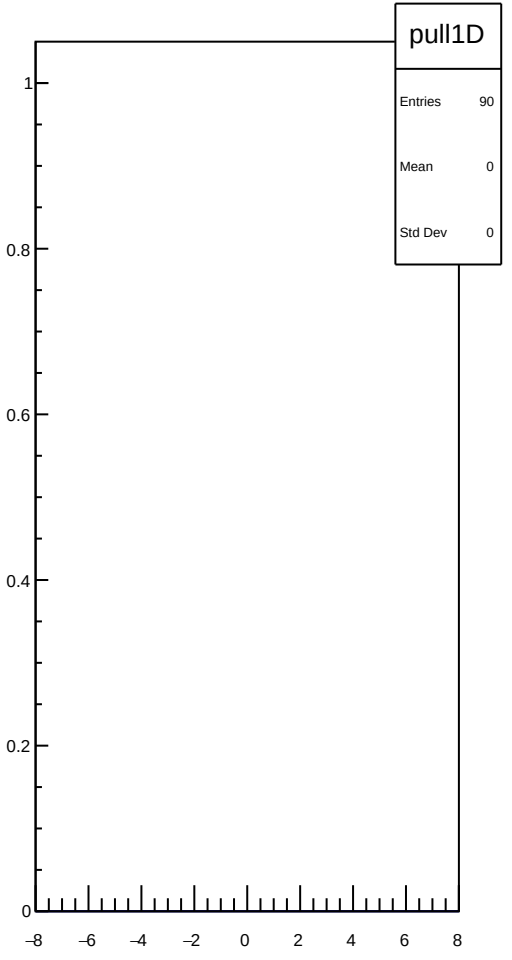

yield_bpm12Y_rms vs run
χ² / ndf 5.519e+04 / 89
p0 0.005568 ± 4.266e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

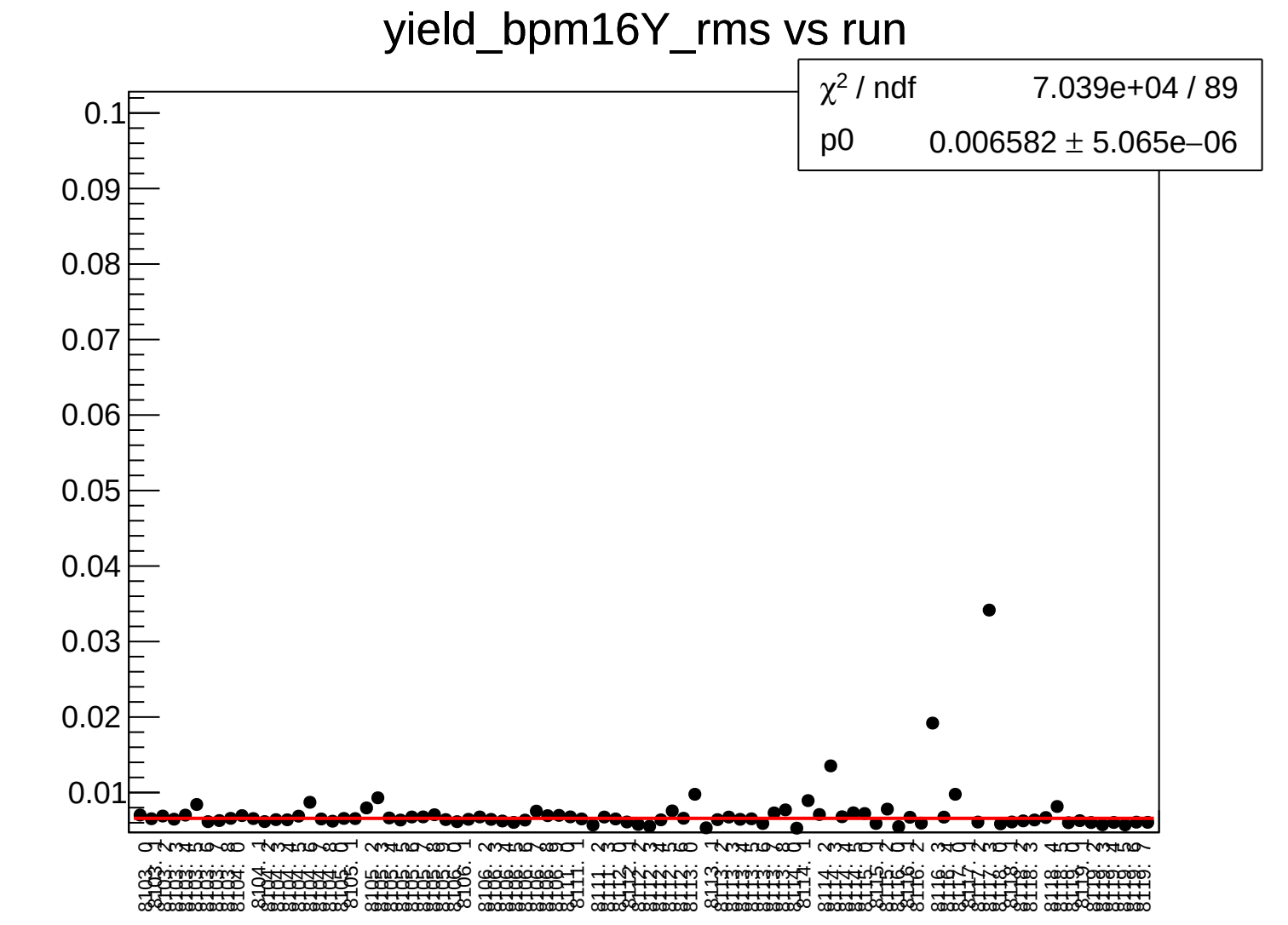

yield_bpm16X_mean vs run
χ² / ndf 1.058e+07 / 89
p0 0.8567 ± 5.094e−05
1.3
1.2
1.1
1
0.9
0.8
0.7
pull
Entries 90
Mean −5569
Std Dev 0
800
600
400
200
0
−200
−400

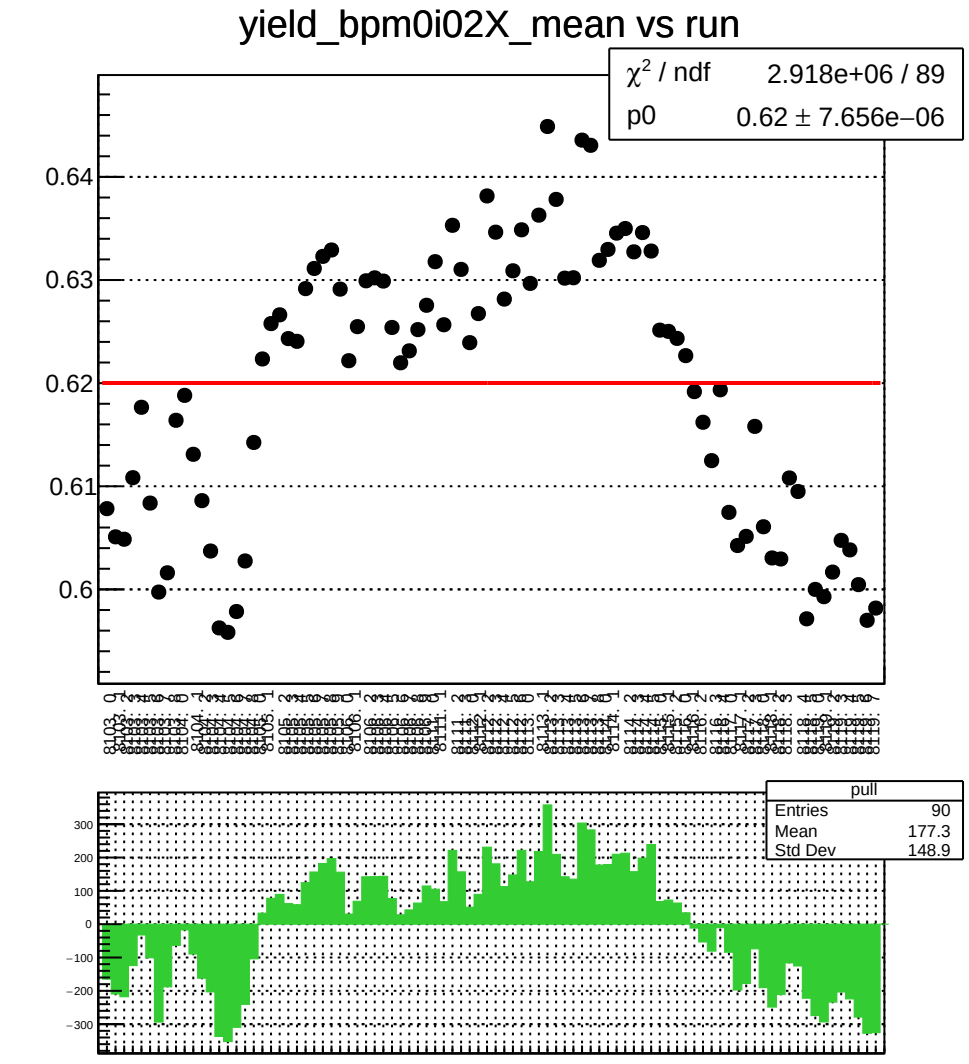

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

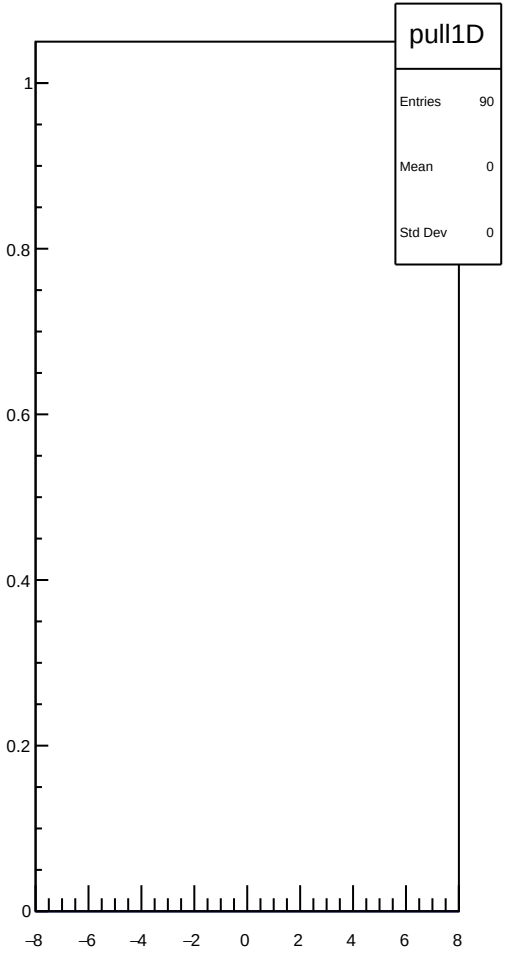

yield_bpm16X_rms vs run
χ² / ndf 4.22e+04 / 89
p0 0.0472 ± 3.602e−05
0.12
0.1
0.08
0.06
0.04

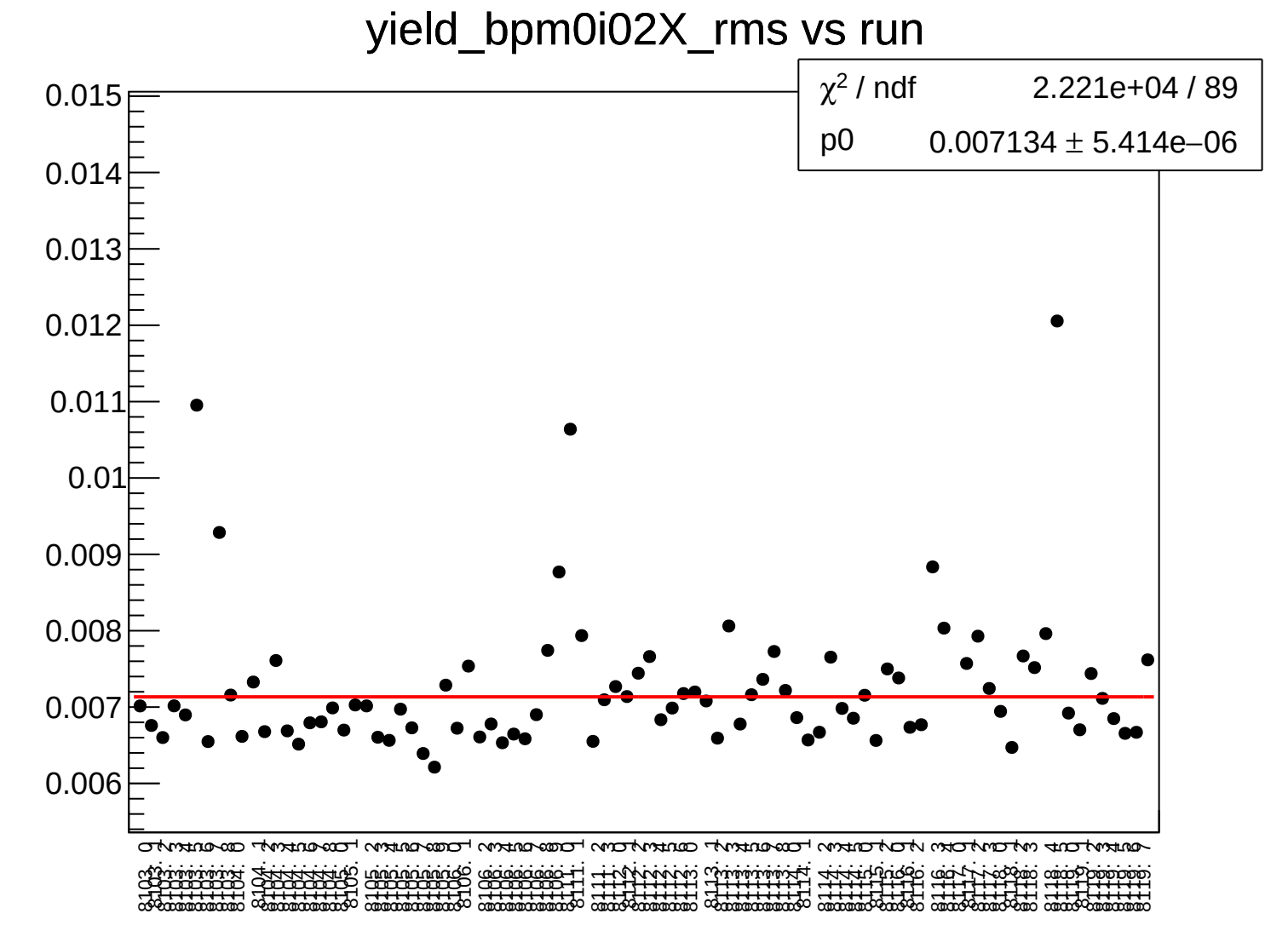

yield_bpm16Y_mean vs run
χ² / ndf 2.825e+07 / 89
p0 −0.7909 ± 7.164e−06
−0.65
−0.7
−0.75
−0.8
−0.85
pull
Entries 90
Mean −1547
Std Dev 0
2000
1500
1000
500
0
−500
−1000

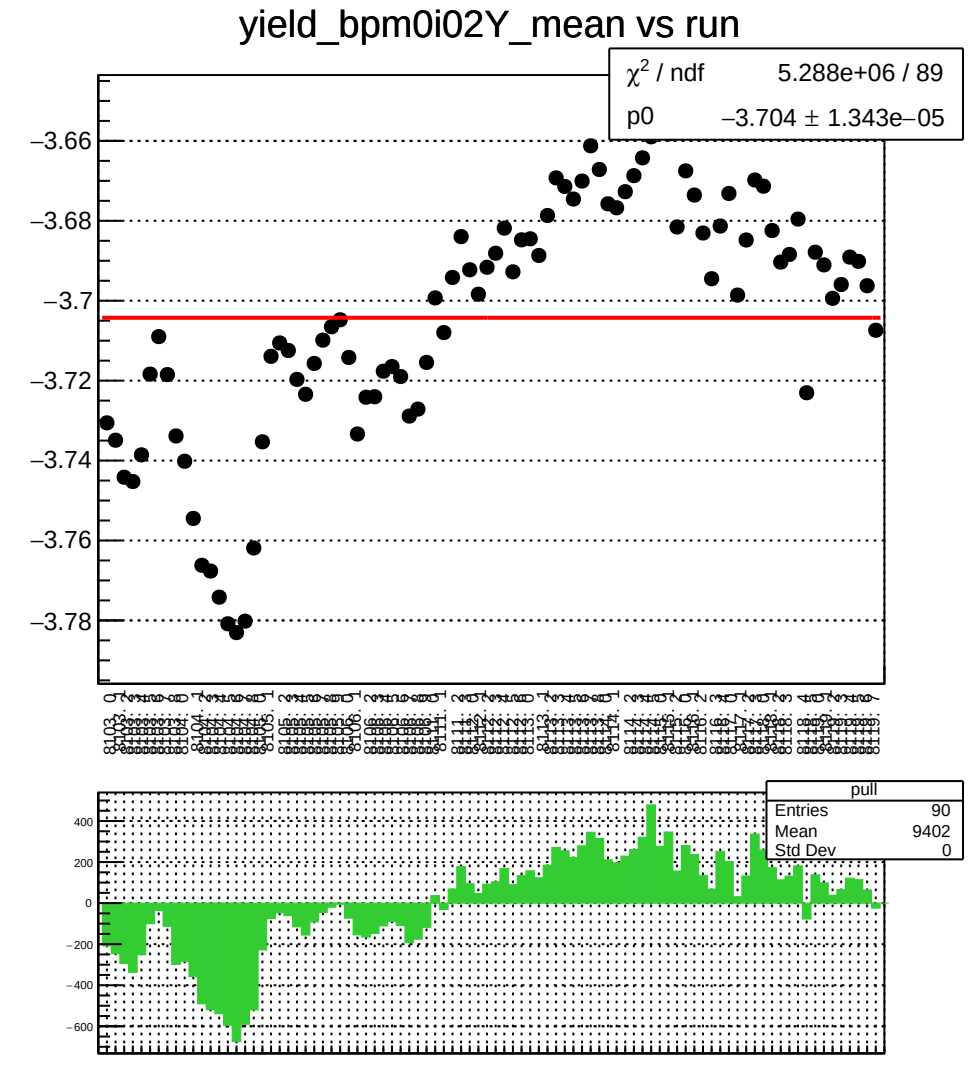

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

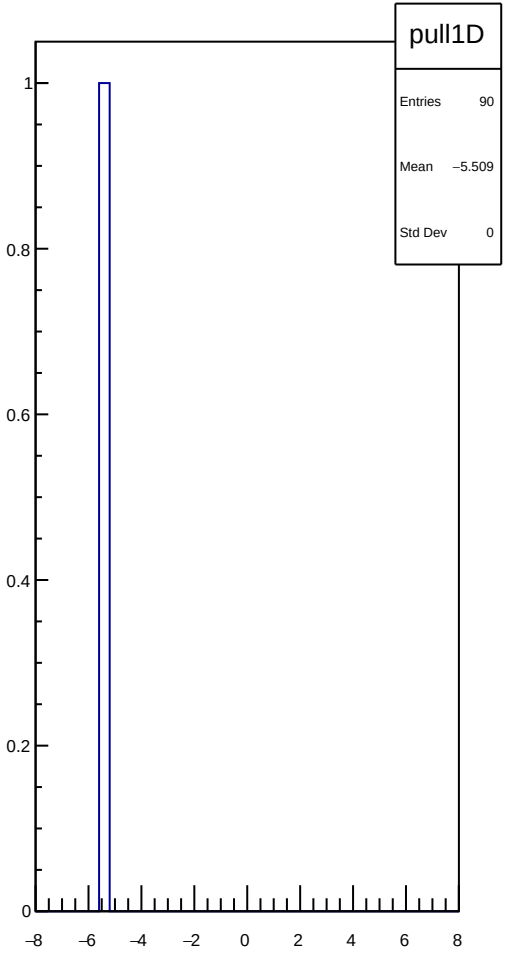

yield_bpm16Y_rms vs run
χ² / ndf 7.039e+04 / 89
p0 0.006582 ± 5.065e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

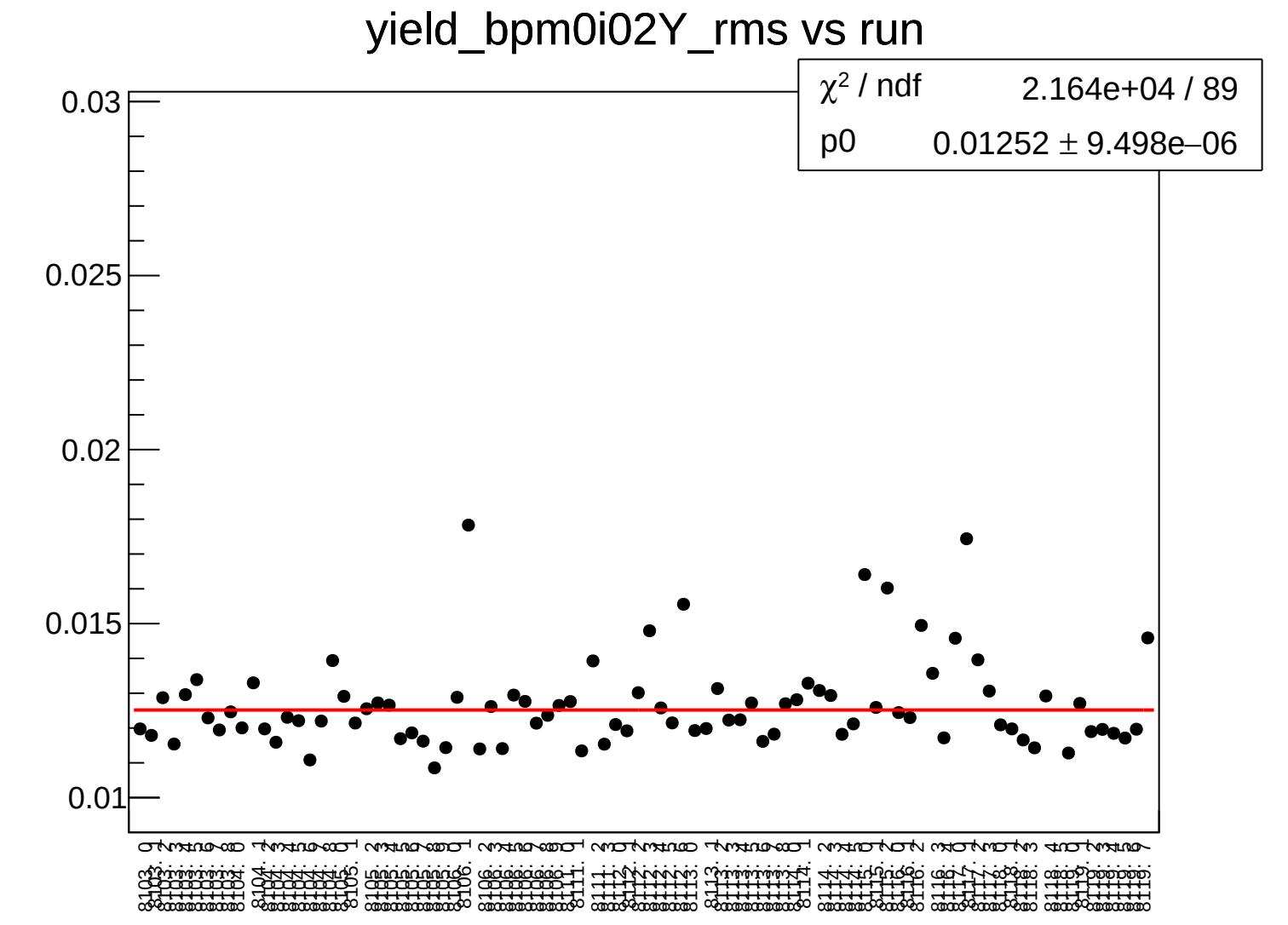

yield_bpm0i02X_mean vs run
χ² / ndf 2.918e+06 / 89
p0 0.62 ± 7.656e−06
0.64
0.63
0.62
0.61
0.6
pull
Entries 90
Mean 177.3
Std Dev 148.9
300
200
100
0
−100
−200
−300

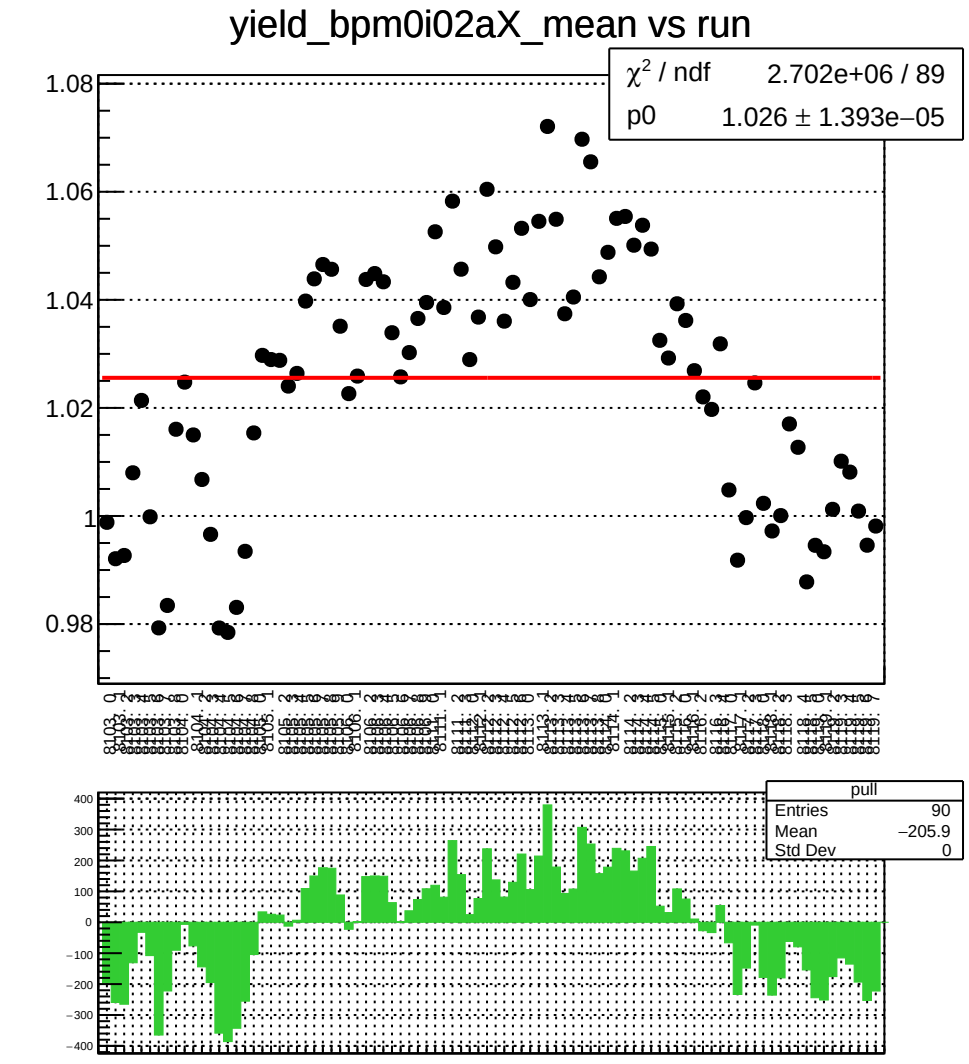

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

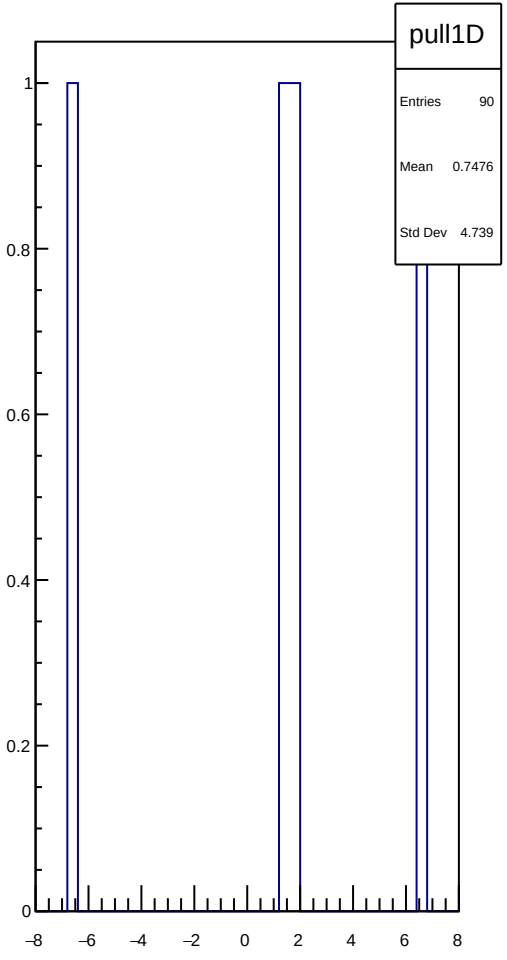

yield_bpm0i02X_rms vs run
χ² / ndf 2.221e+04 / 89
p0 0.007134 ± 5.414e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

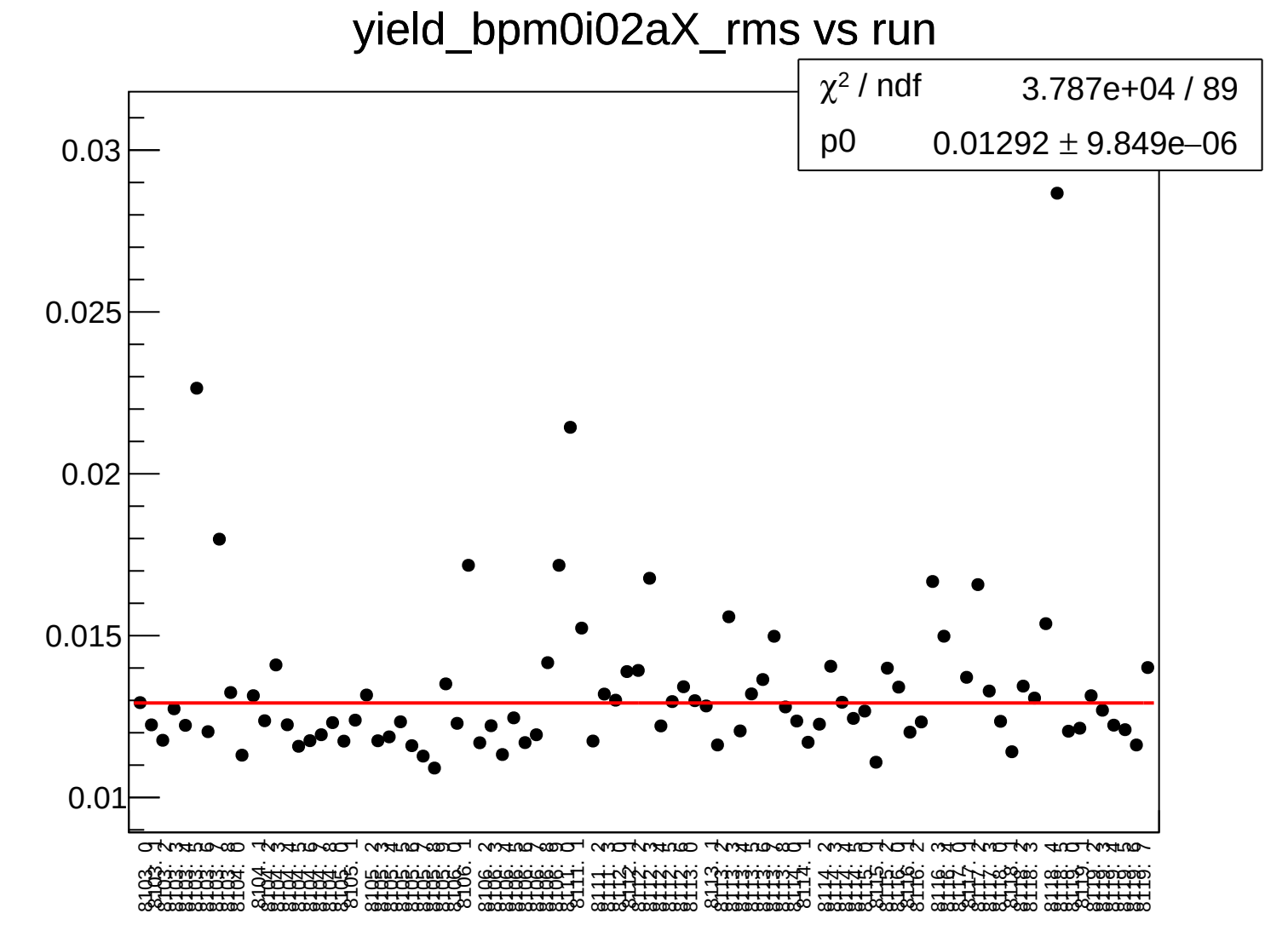

yield_bpm0i02Y_mean vs run
χ² / ndf 5.288e+06 / 89
p0 −3.704 ± 1.343e−05
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
pull
Entries 90
Mean 9402
Std Dev 0
400
200
0
−200
−400
−600

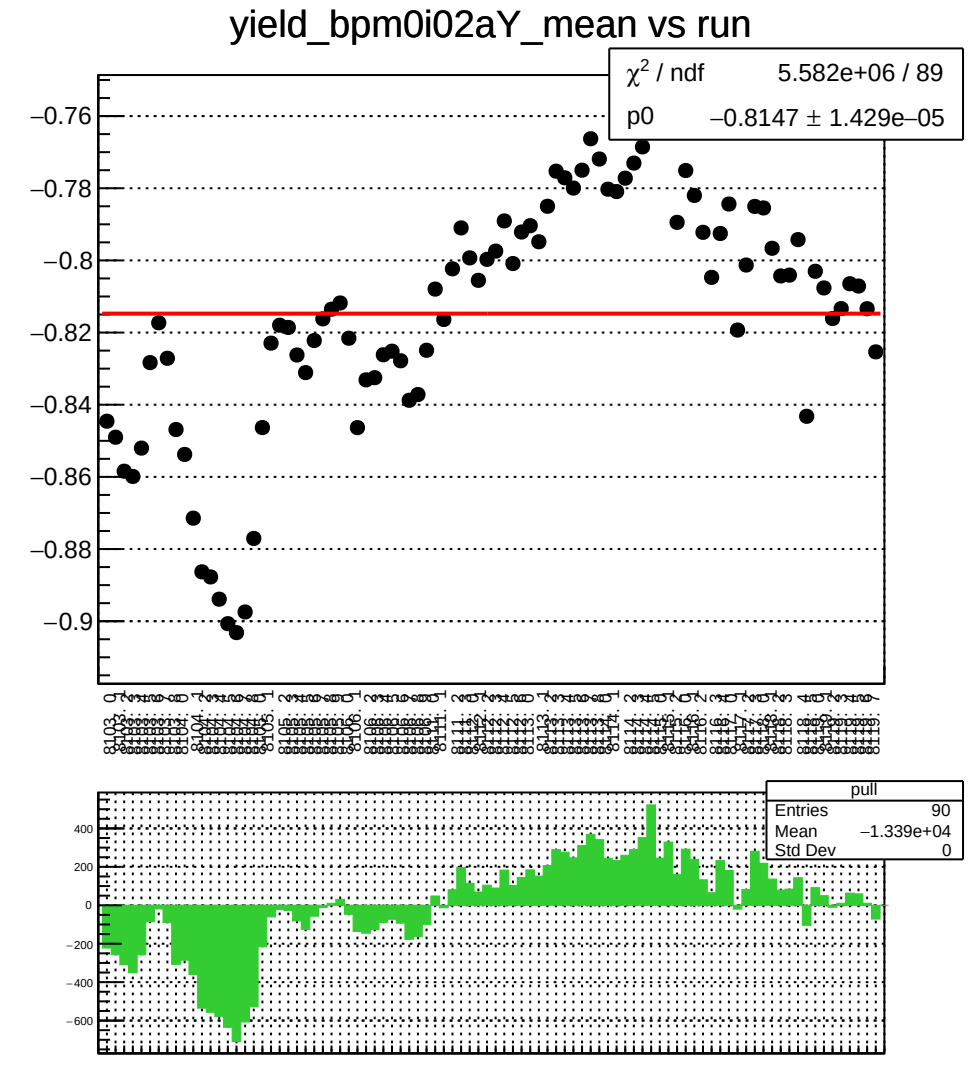

pull1D
Entries 90
Mean −5.509
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

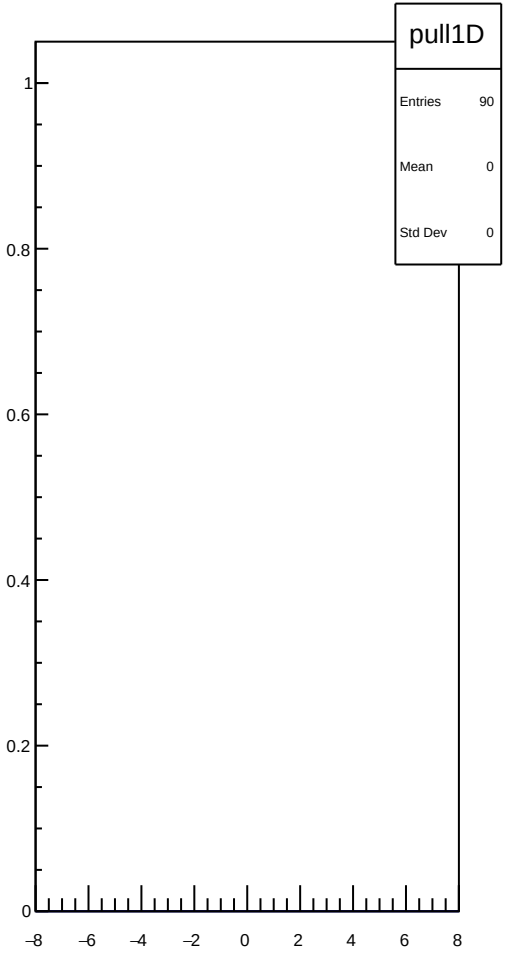

yield_bpm0i02Y_rms vs run
χ² / ndf 2.164e+04 / 89
p0 0.01252 ± 9.498e–06
0.03
0.025
0.02
0.015
0.01

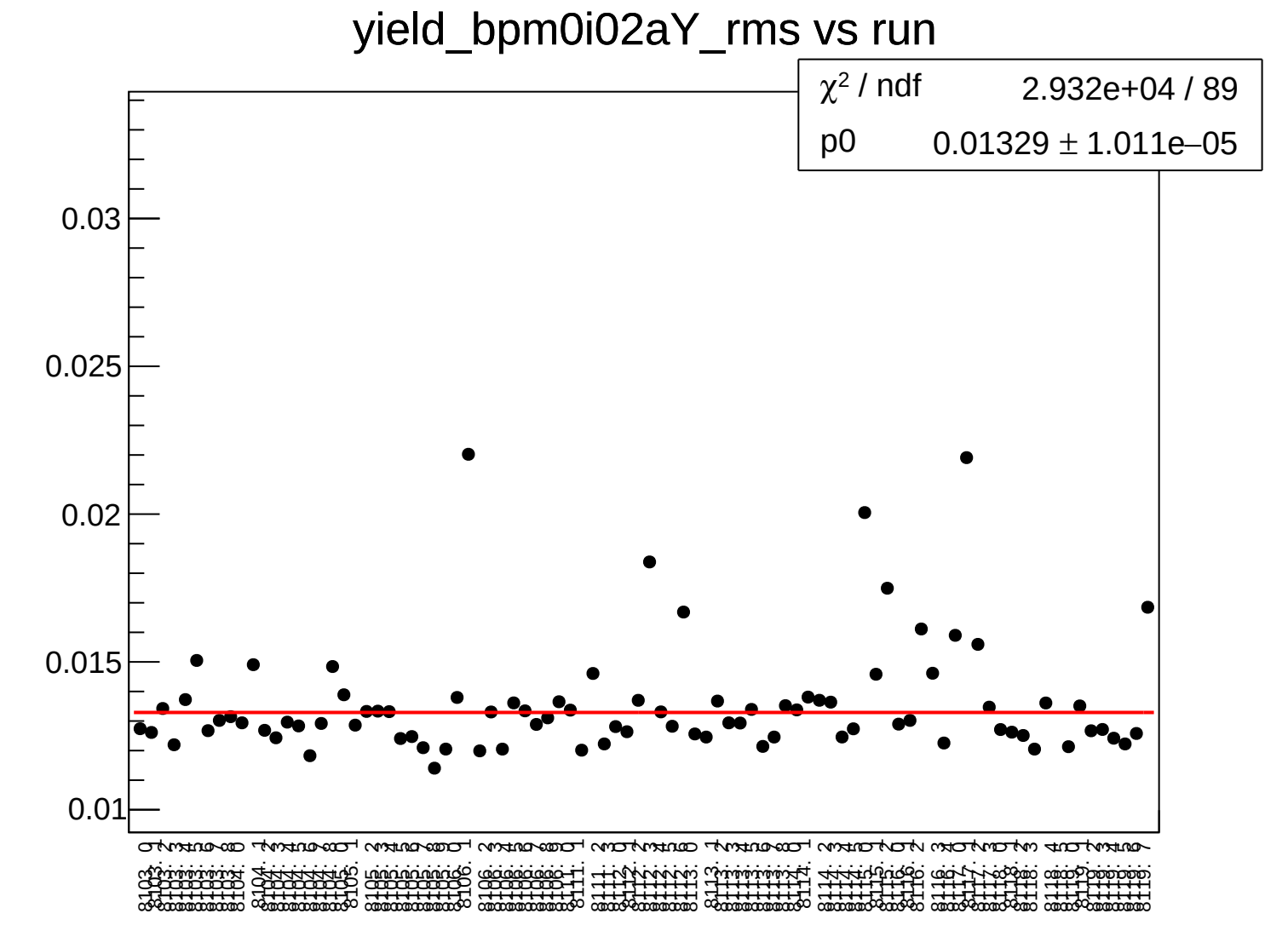

yield_bpm0i02aX_mean vs run
χ² / ndf 2.702e+06 / 89
p0 1.026 ± 1.393e−05
1.08
1.06
1.04
1.02
1
0.98
pull
Entries 90
Mean −205.9
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

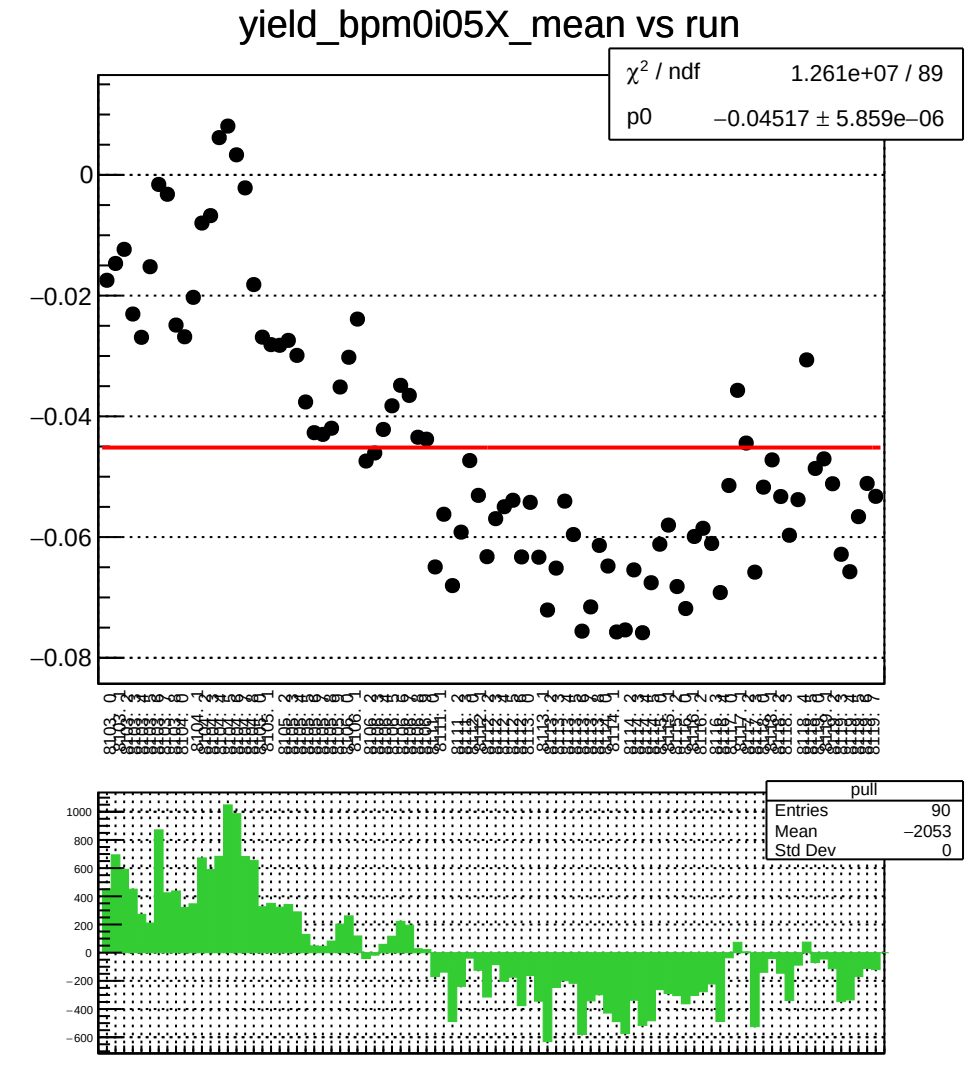

pull1D
Entries 90
Mean 0.7476
Std Dev 4.739
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

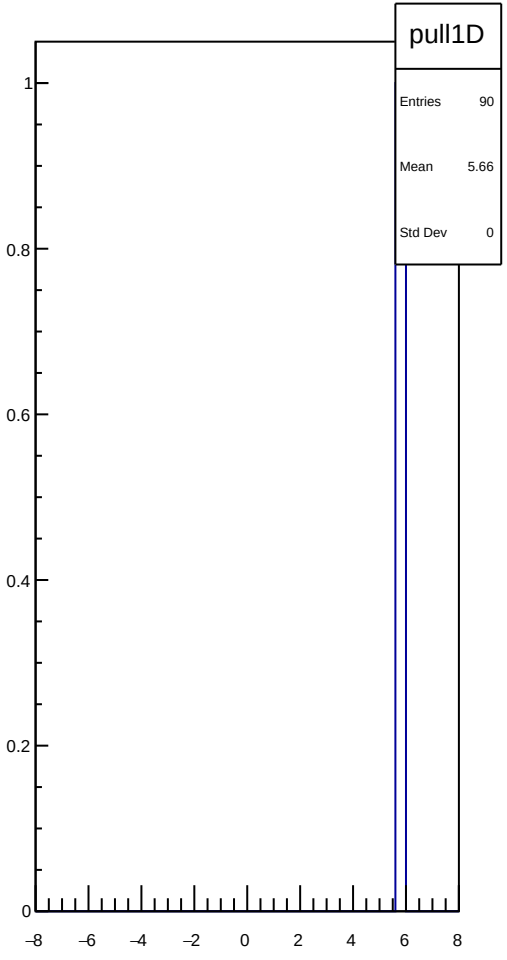

yield_bpm0i02aX_rms vs run
χ² / ndf 3.787e+04 / 89
p0 0.01292 ± 9.849e−06
0.03
0.025
0.02
0.015
0.01

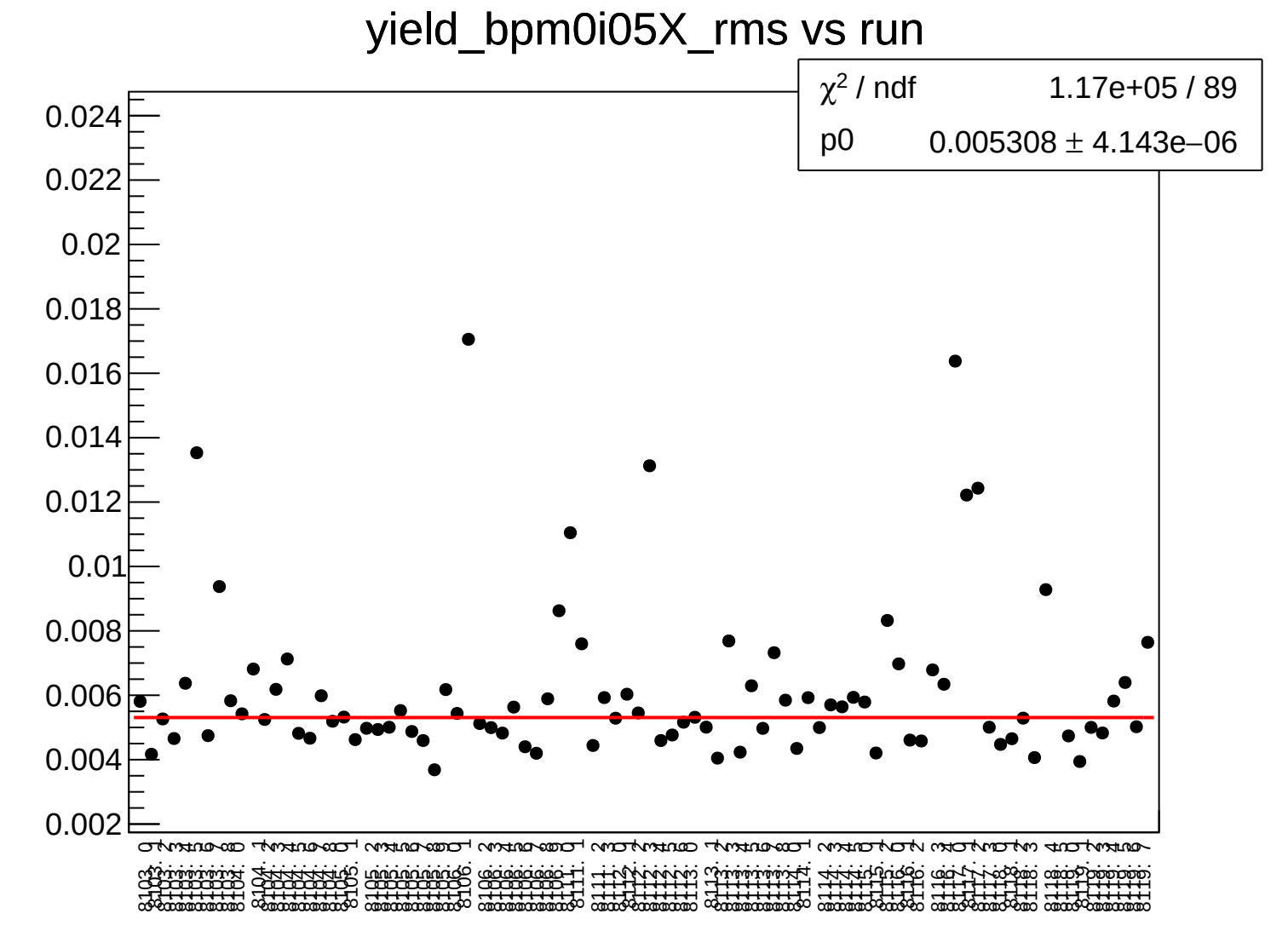

yield_bpm0i02aY_mean vs run
χ² / ndf 5.582e+06 / 89
p0 −0.8147 ± 1.429e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 90
Mean −1.339e+04
Std Dev 0
400
200
0
−200
−400
−600

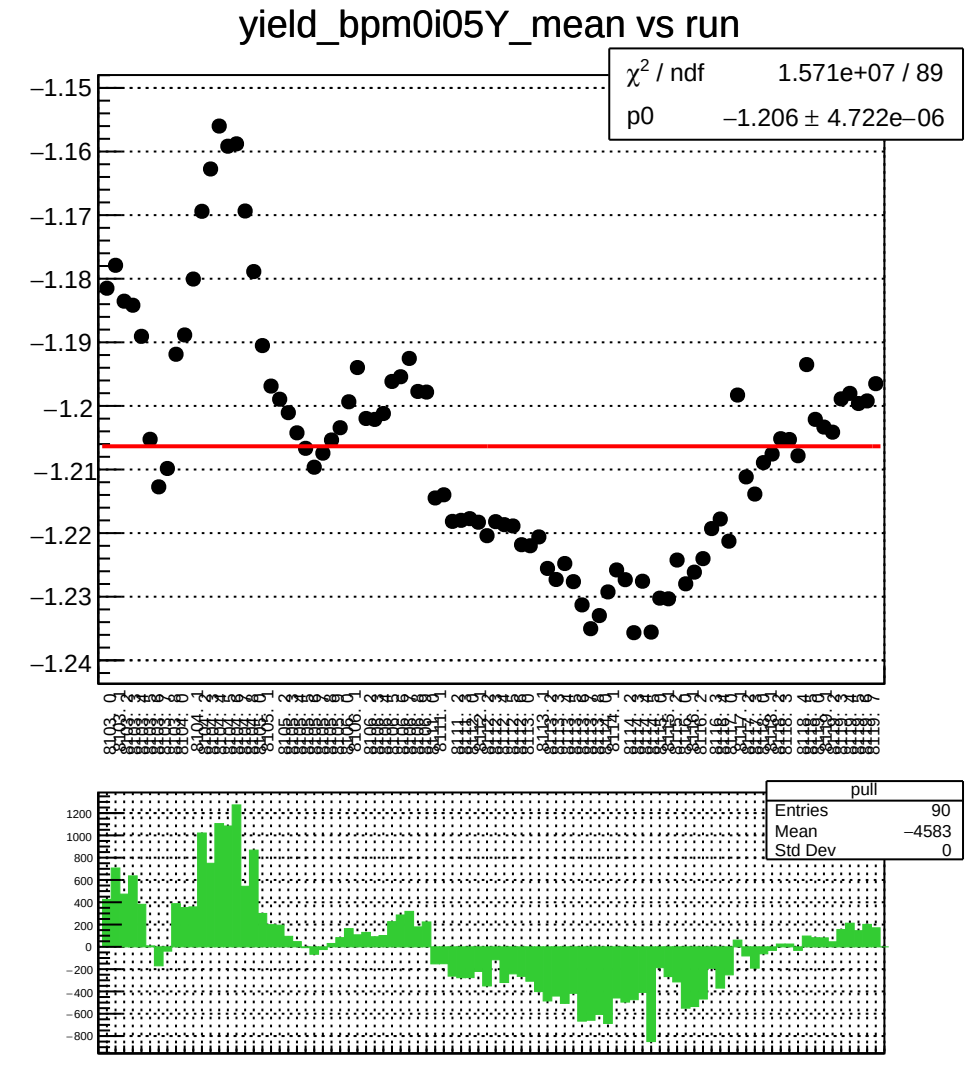

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

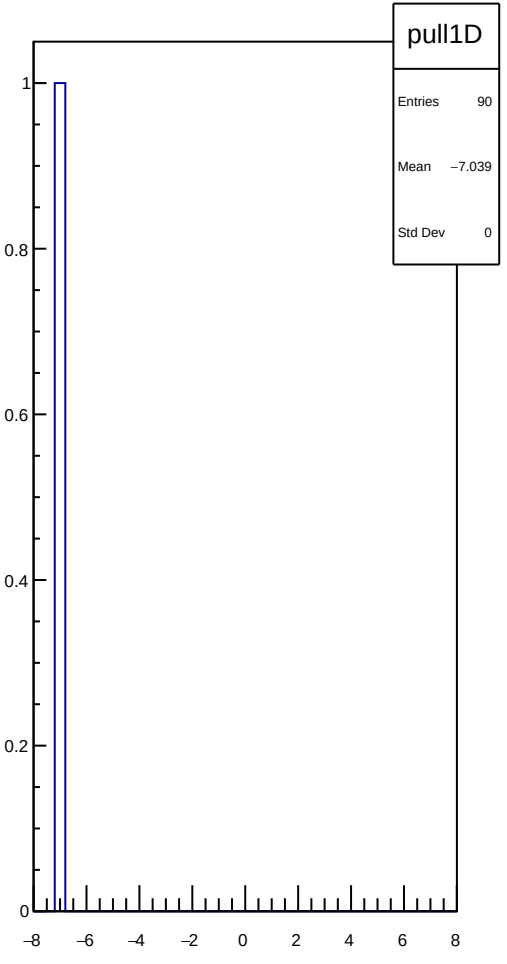

yield_bpm0i02aY_rms vs run
χ² / ndf 2.932e+04 / 89
p0 0.01329 ± 1.011e−05
0.03
0.025
0.02
0.015
0.01

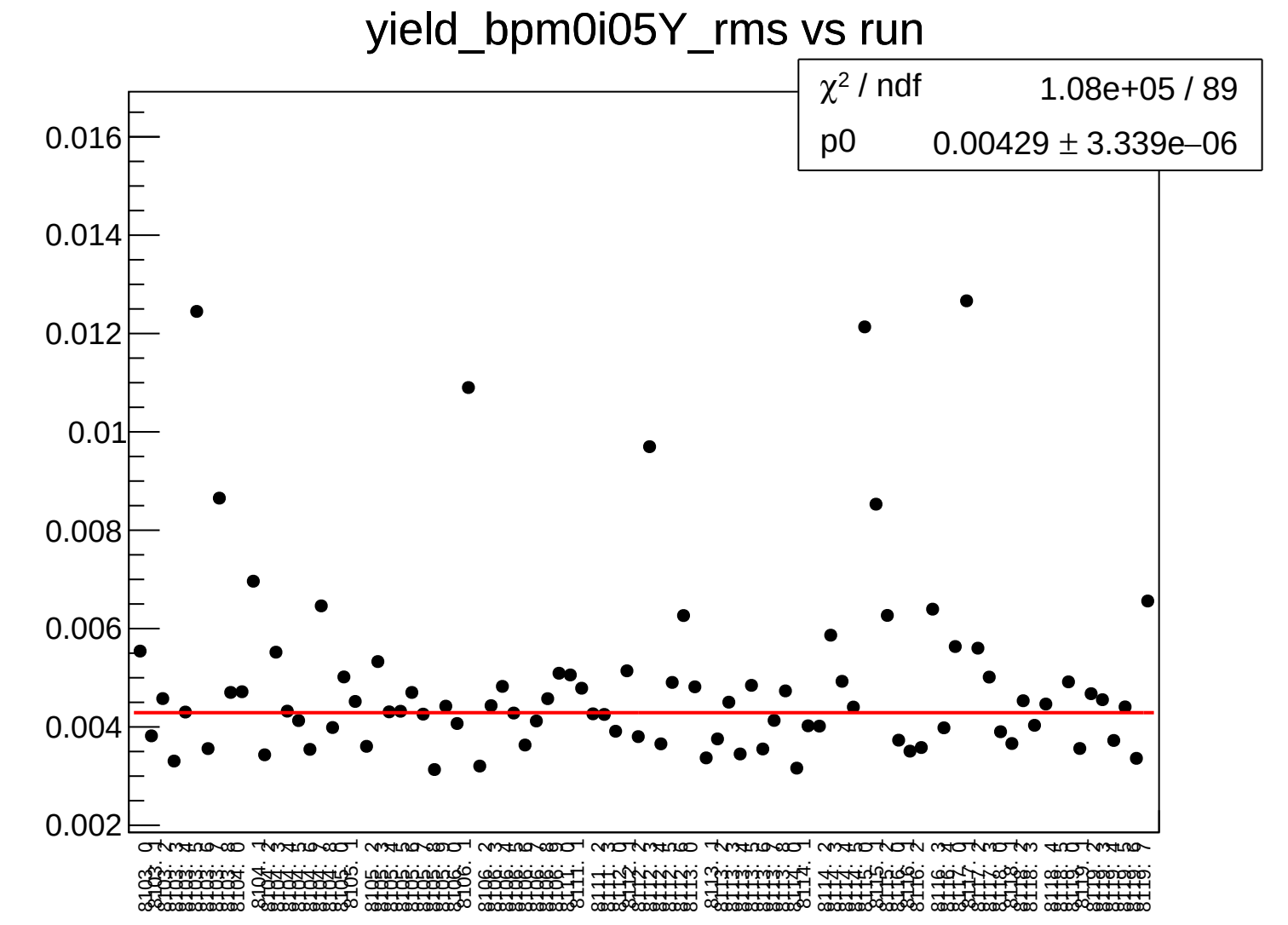

yield_bpm0i05X_mean vs run
χ² / ndf 1.261e+07 / 89
p0 −0.04517 ± 5.859e−06
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean −2053
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

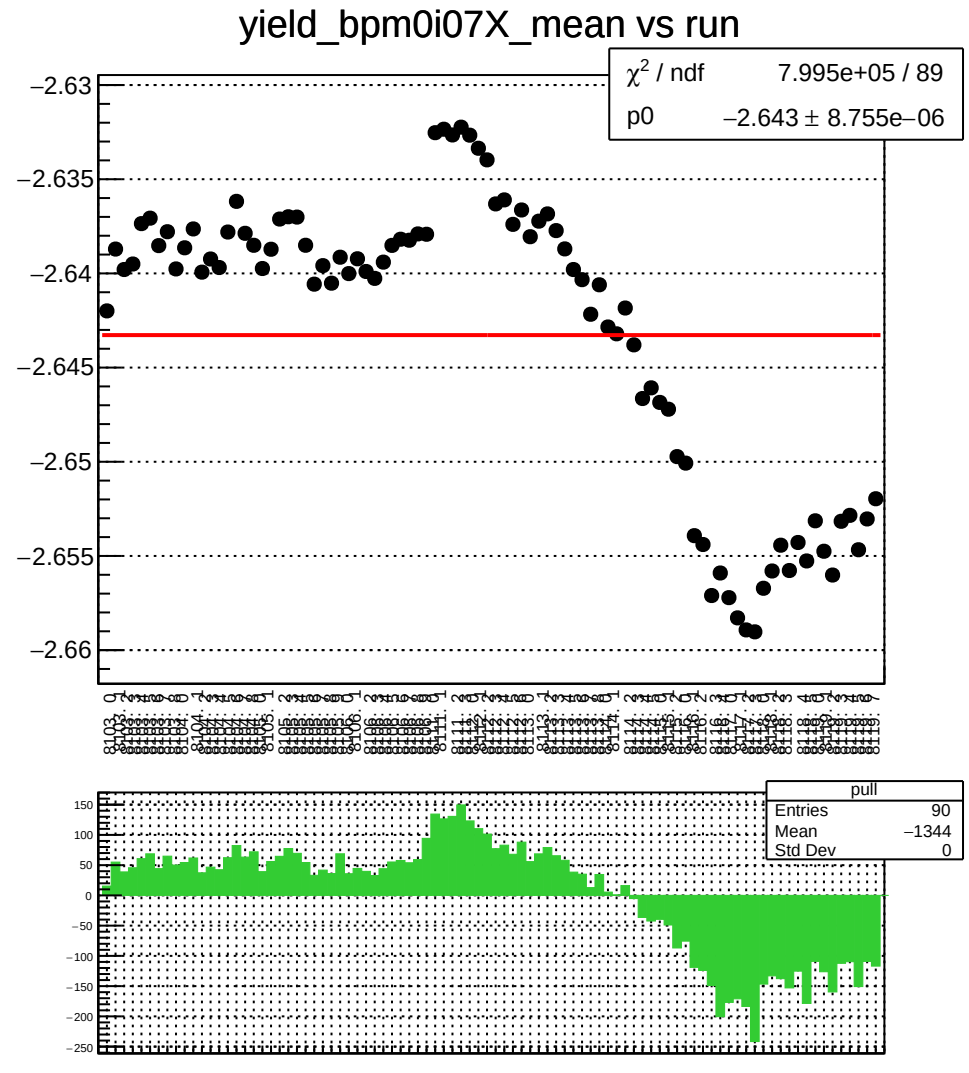

pull1D
Entries 90
Mean 5.66
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

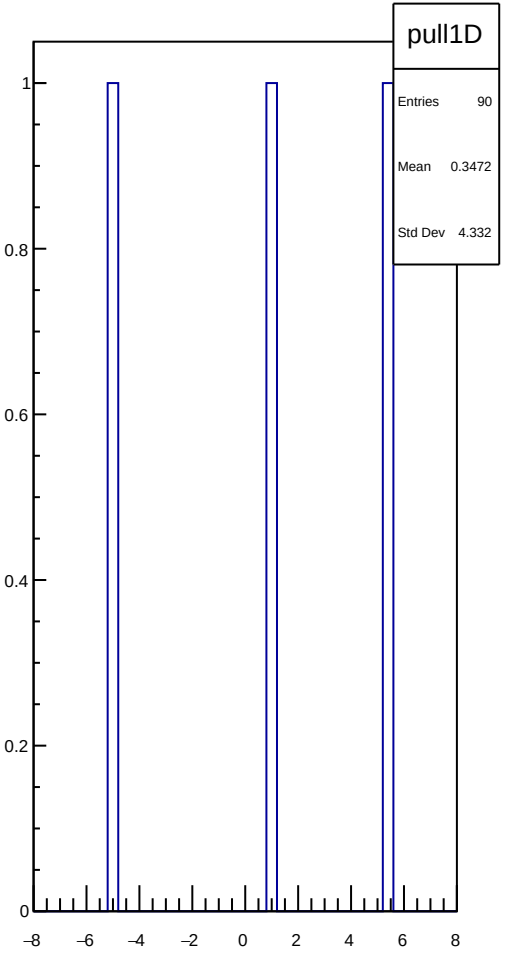

yield_bpm0i05X_rms vs run
χ² / ndf 1.17e+05 / 89
p0 0.005308 ± 4.143e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

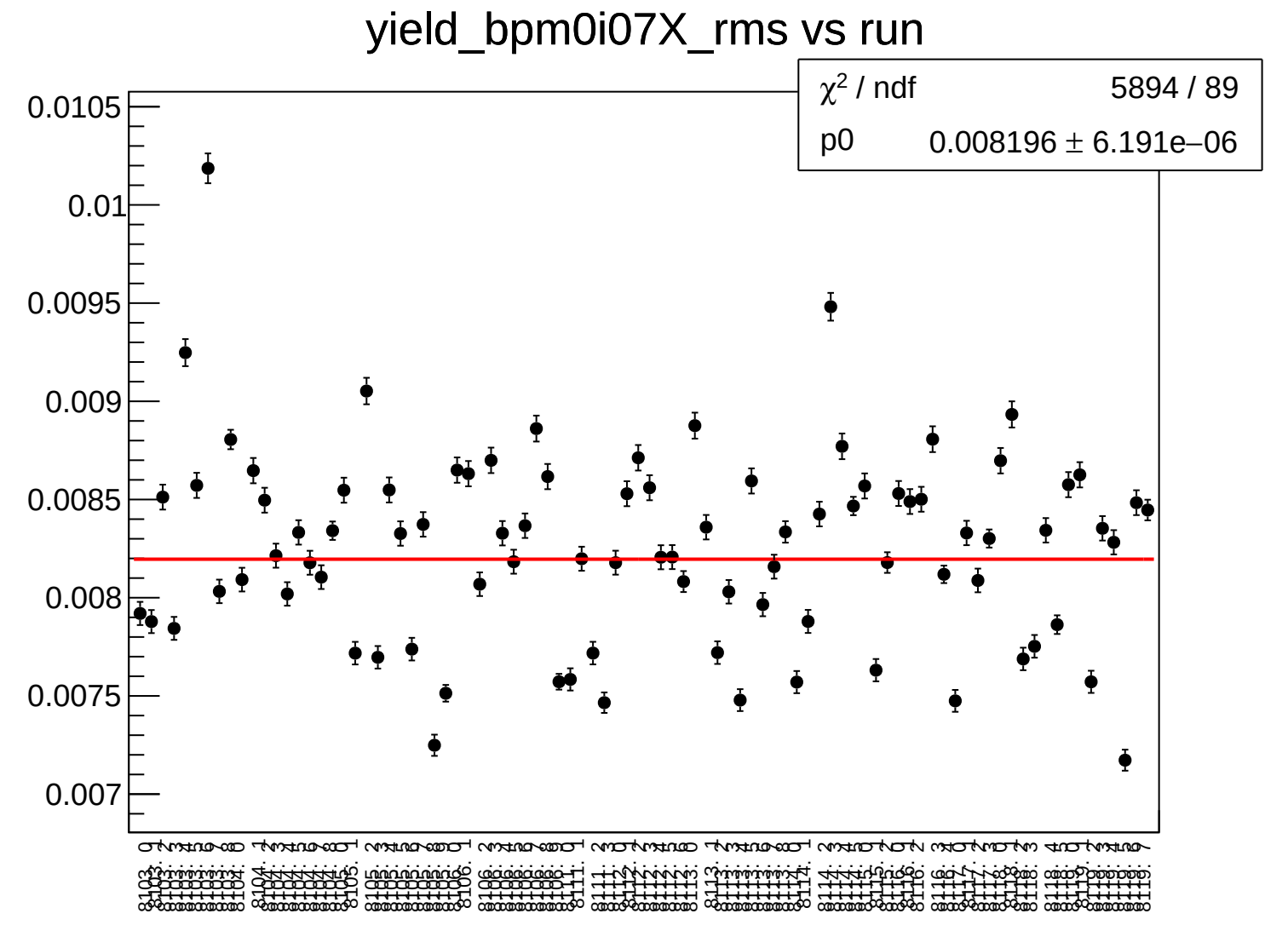

yield_bpm0i05Y_mean vs run
χ² / ndf 1.571e+07 / 89
p0 −1.206 ± 4.722e−06
−1.15
−1.16
−1.17
−1.18
−1.19
−1.2
−1.21
−1.22
−1.23
−1.24
pull
Entries 90
Mean −4583
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

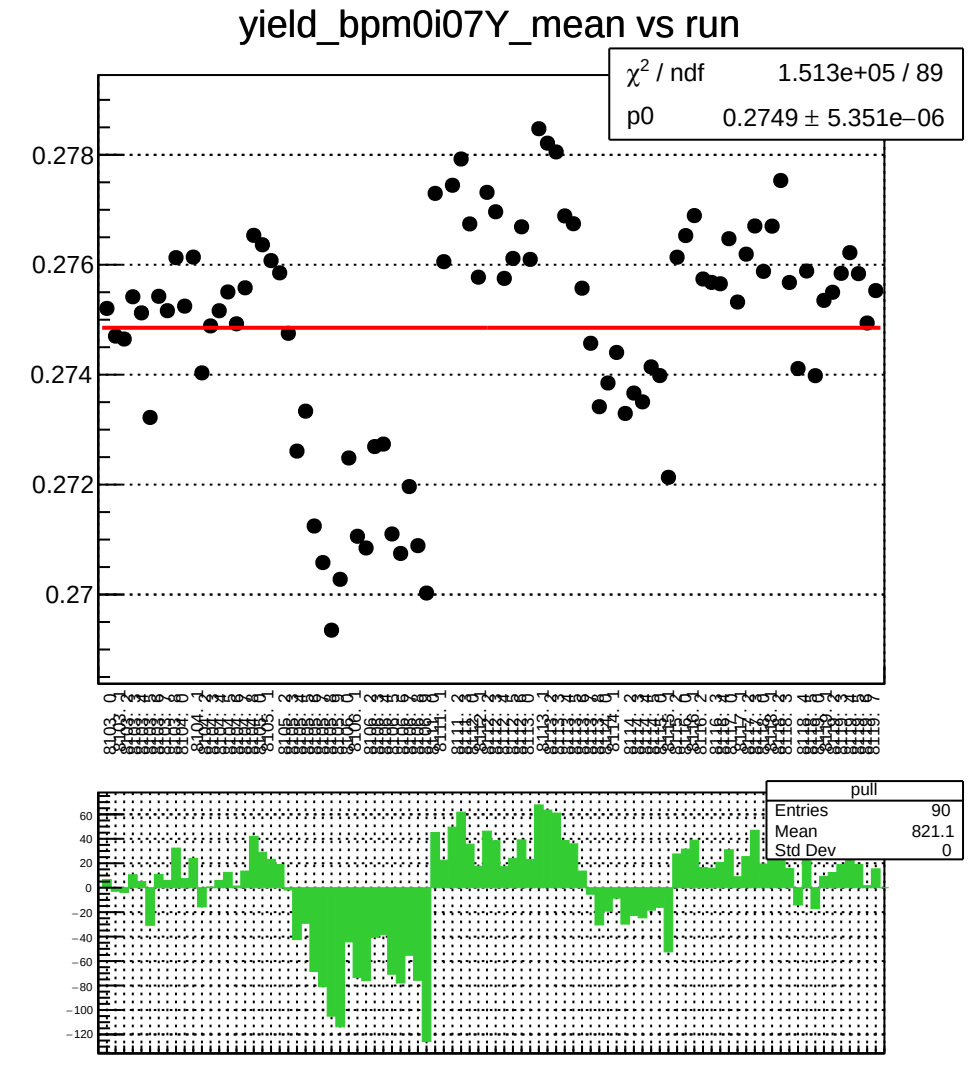

pull1D
Entries 90
Mean −7.039
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

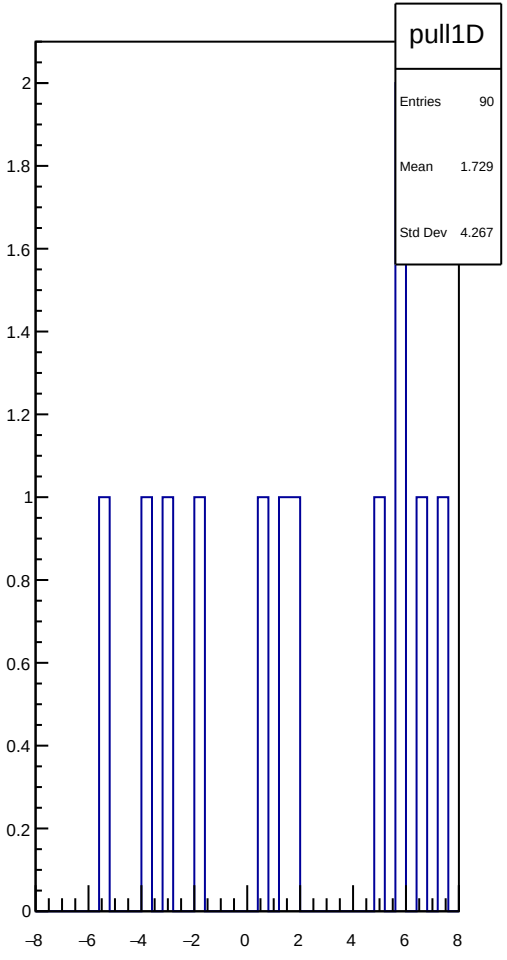

yield_bpm0i05Y_rms vs run
χ² / ndf 1.08e+05 / 89
p0 0.00429 ± 3.339e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

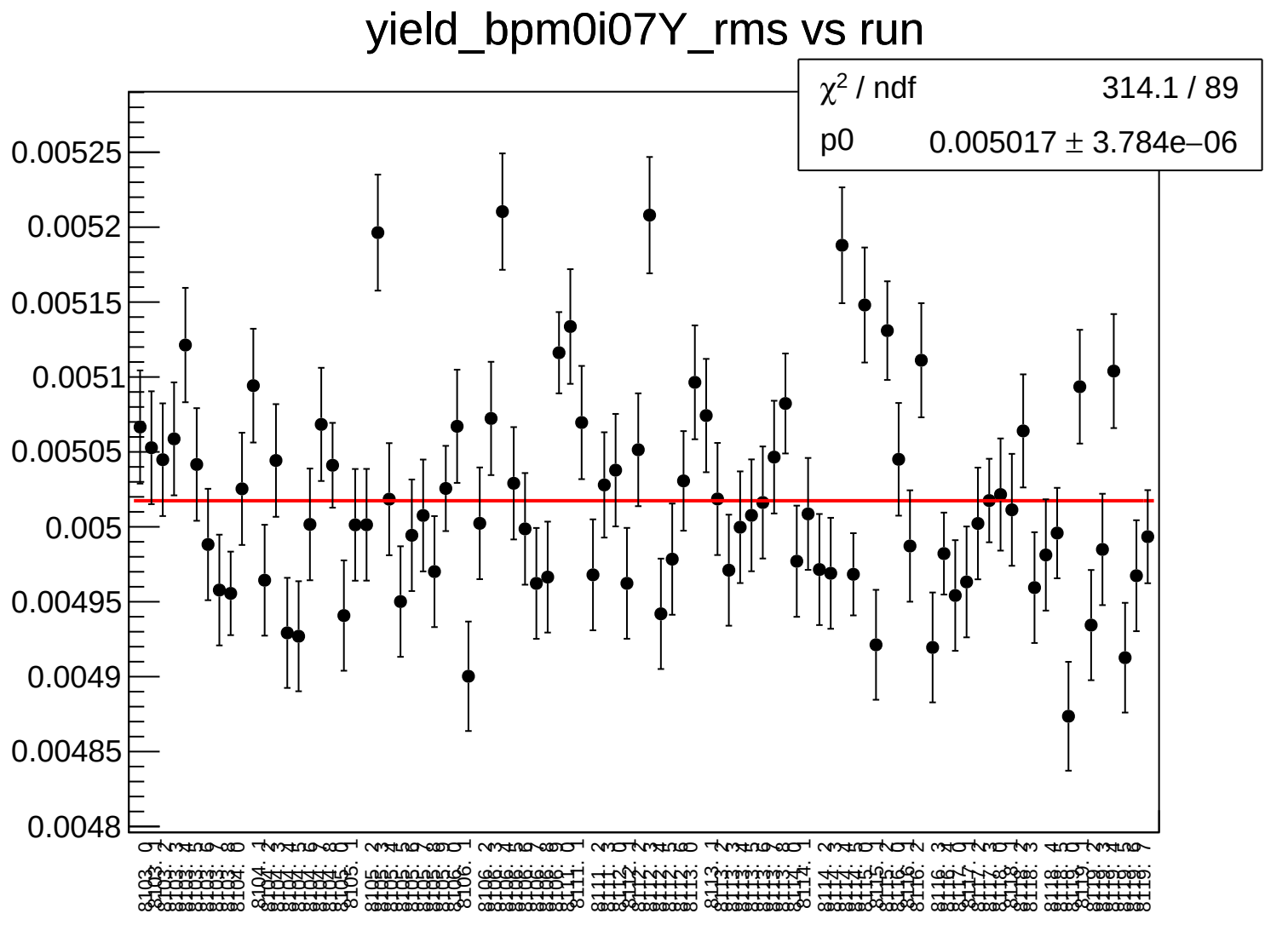

yield_bpm0i07X_mean vs run
χ² / ndf 7.995e+05 / 89
p0 −2.643 ± 8.755e−06
−2.63
−2.635
−2.64
−2.645
−2.65
−2.655
−2.66
pull
Entries 90
Mean −1344
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

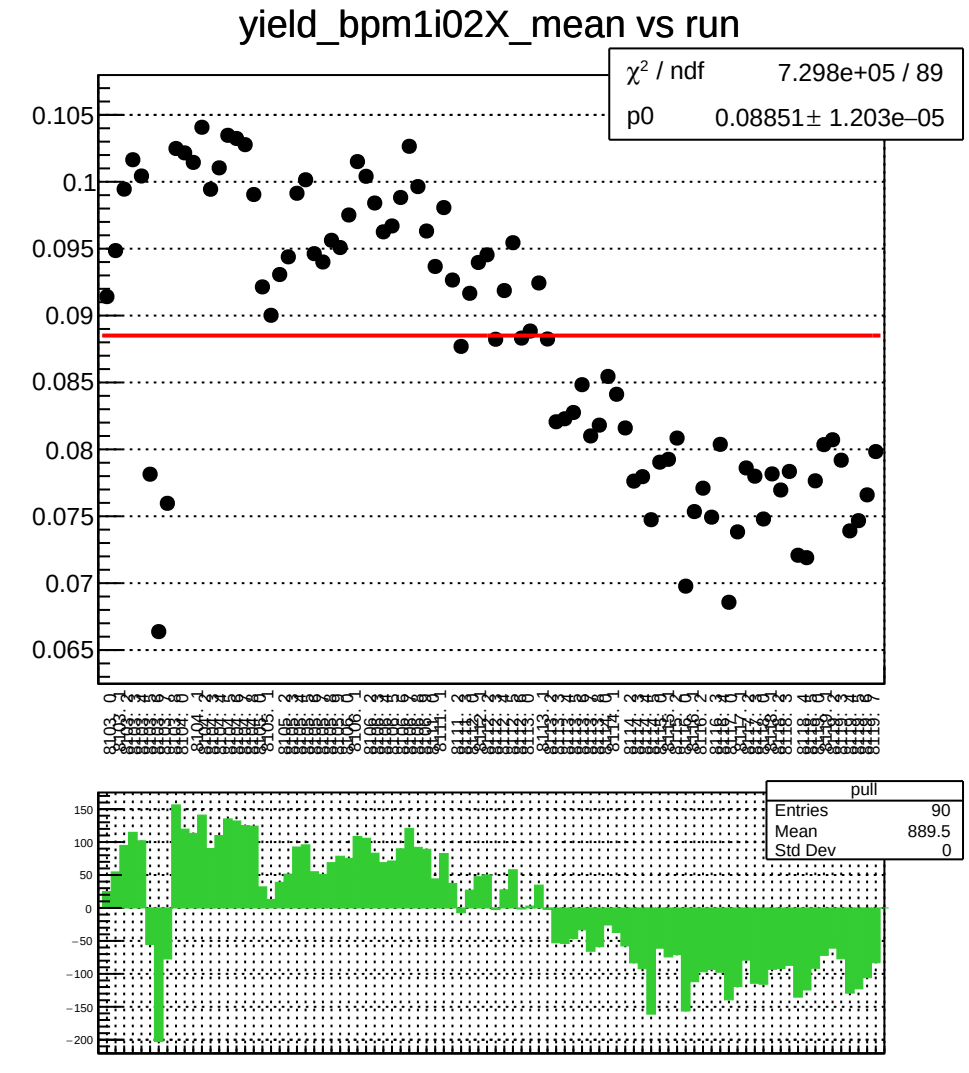

pull1D
Entries 90
Mean 0.3472
Std Dev 4.332
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

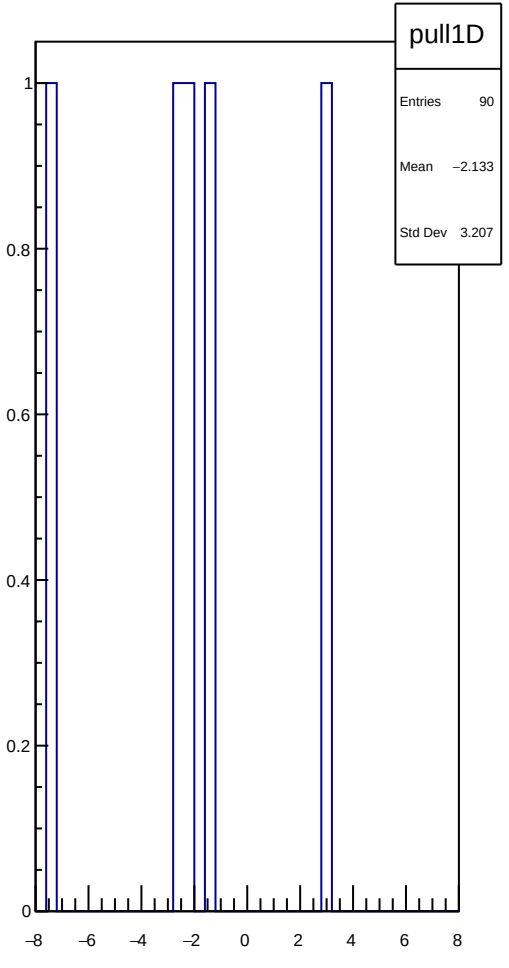

yield_bpm0i07X_rms vs run
χ² / ndf 5894 / 89
p0 0.008196 ± 6.191e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

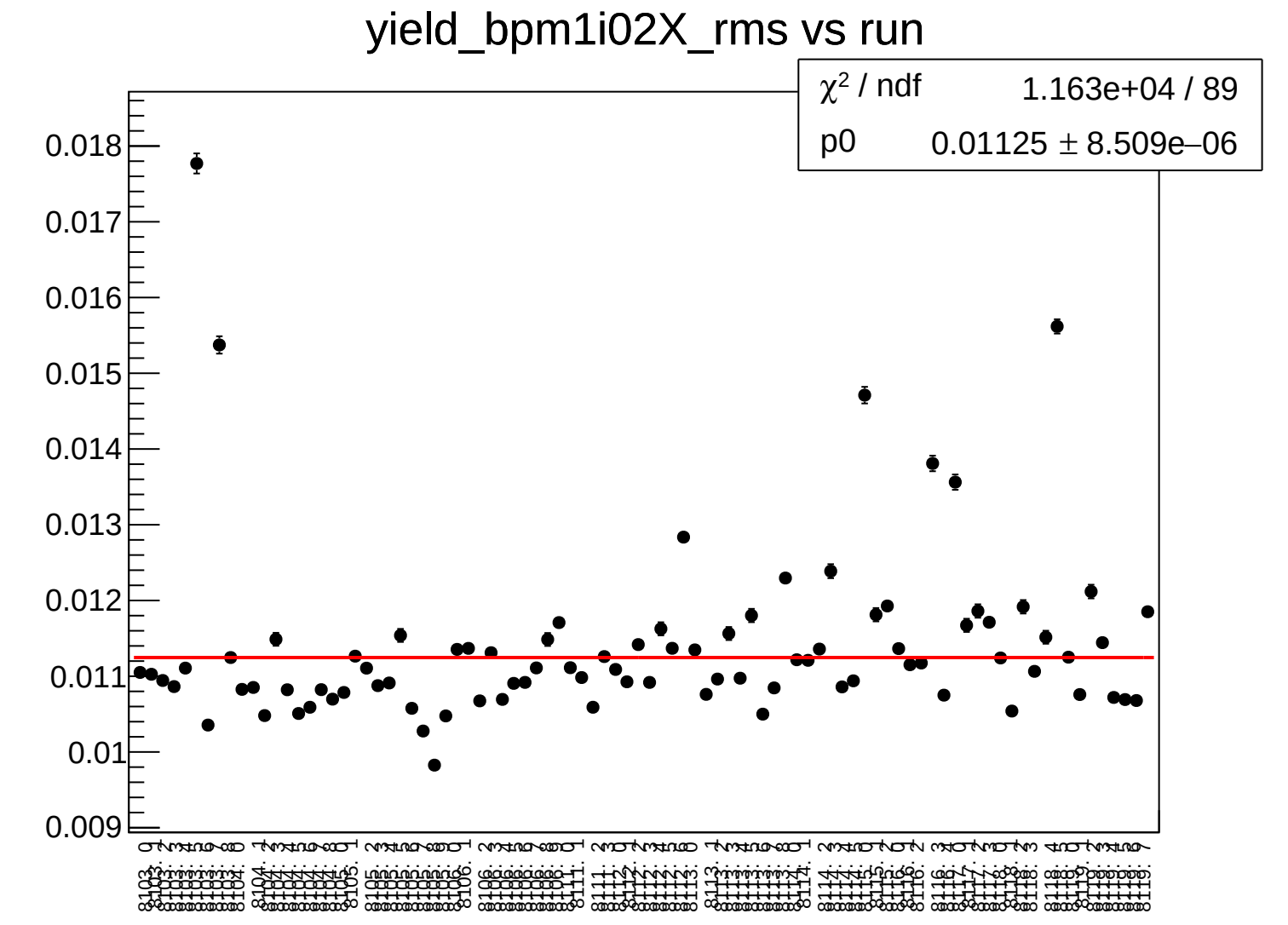

yield_bpm0i07Y_mean vs run
χ² / ndf 1.513e+05 / 89
p0 0.2749 ± 5.351e−06
0.278
0.276
0.274
0.272
0.27
pull
Entries 90
Mean 821.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

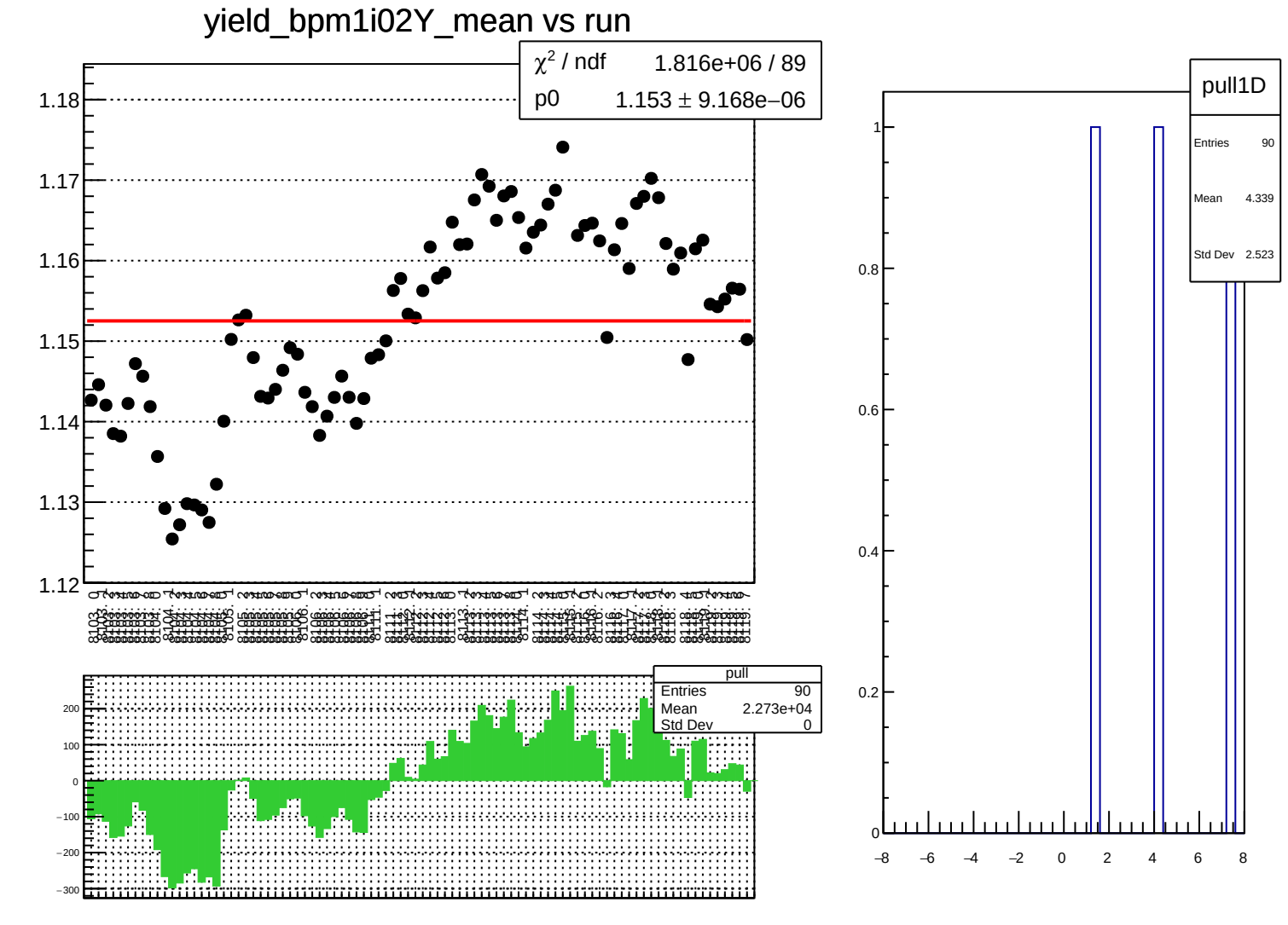

pull1D
Entries 90
Mean 1.729
Std Dev 4.267
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

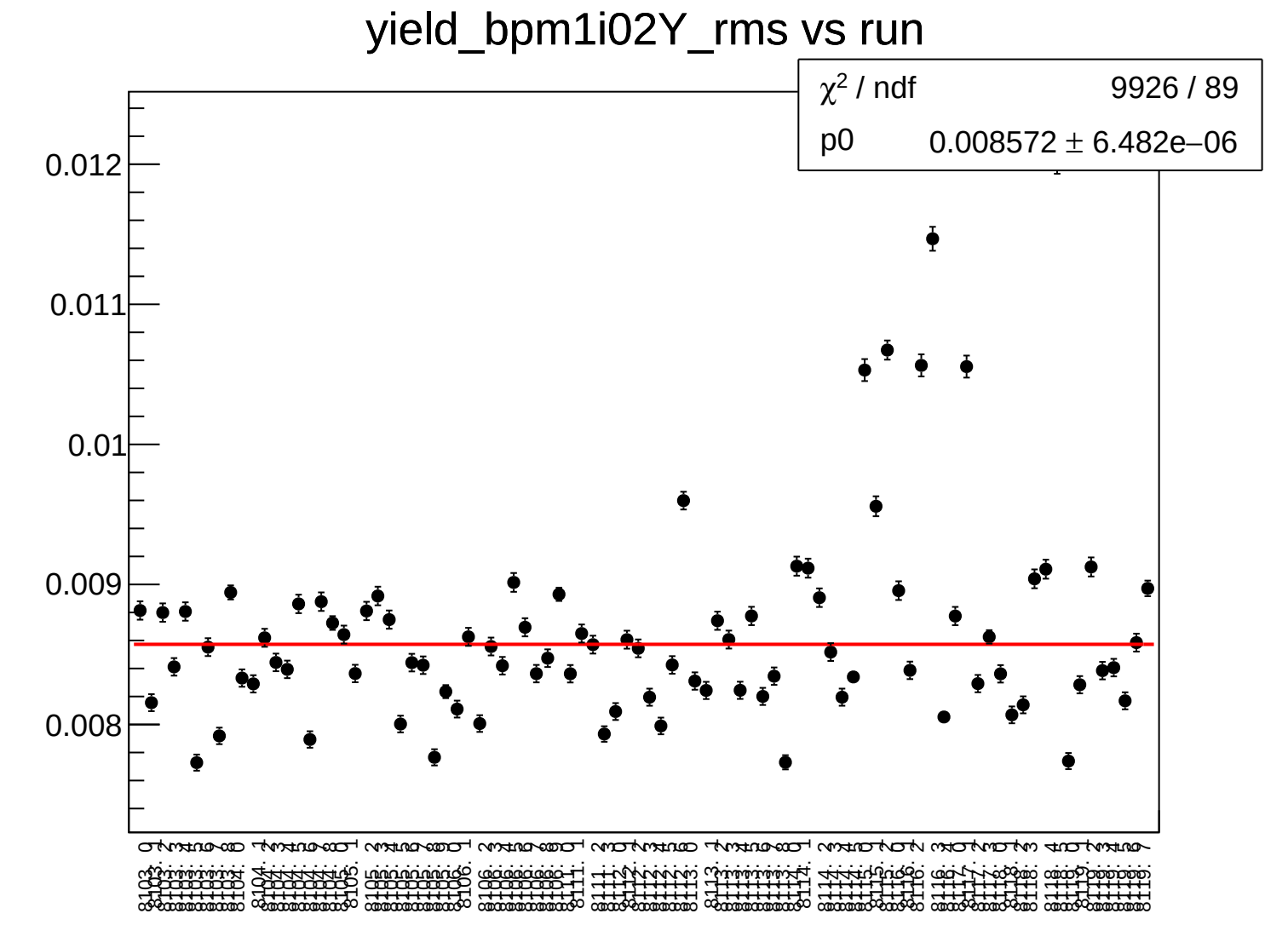

yield_bpm0i07Y_rms vs run
χ² / ndf 314.1 / 89
p0 0.005017 ± 3.784e−06
0.00525
0.0052
0.00515
0.0051
0.00505
0.005
0.00495
0.0049
0.00485
0.0048

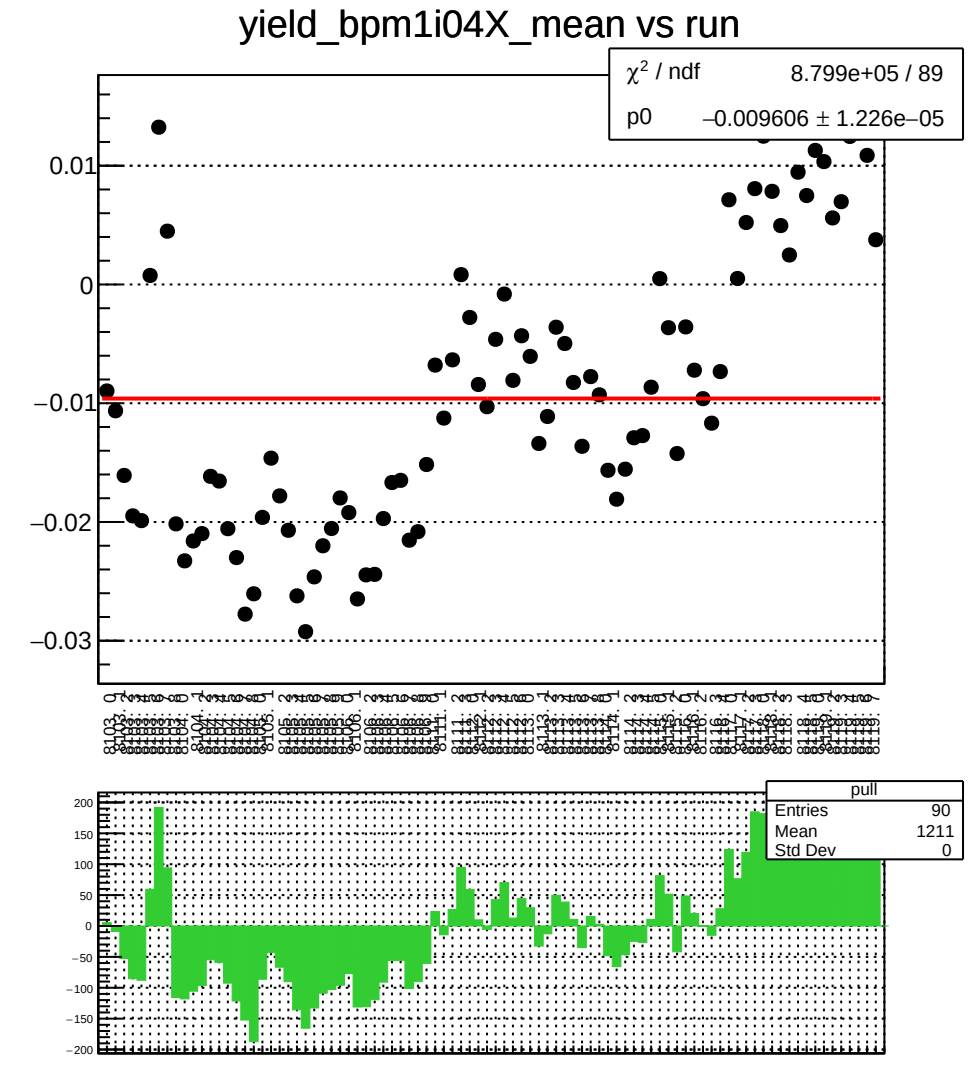

yield_bpm1i02X_mean vs run
χ² / ndf 7.298e+05 / 89
p0 0.08851± 1.203e−05
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
pull
Entries 90
Mean 889.5
Std Dev 0
150
100
50
0
−50
−100
−150
−200

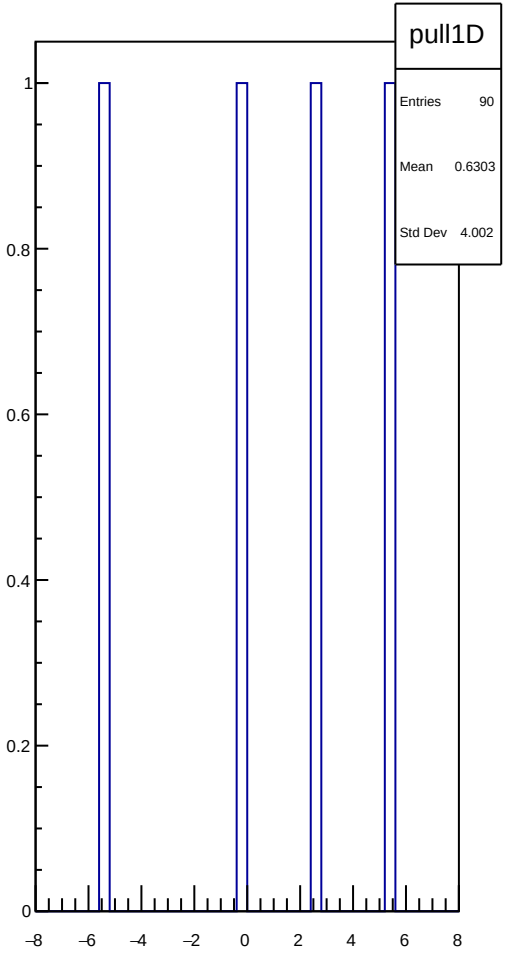

pull1D
Entries 90
Mean −2.133
Std Dev 3.207
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

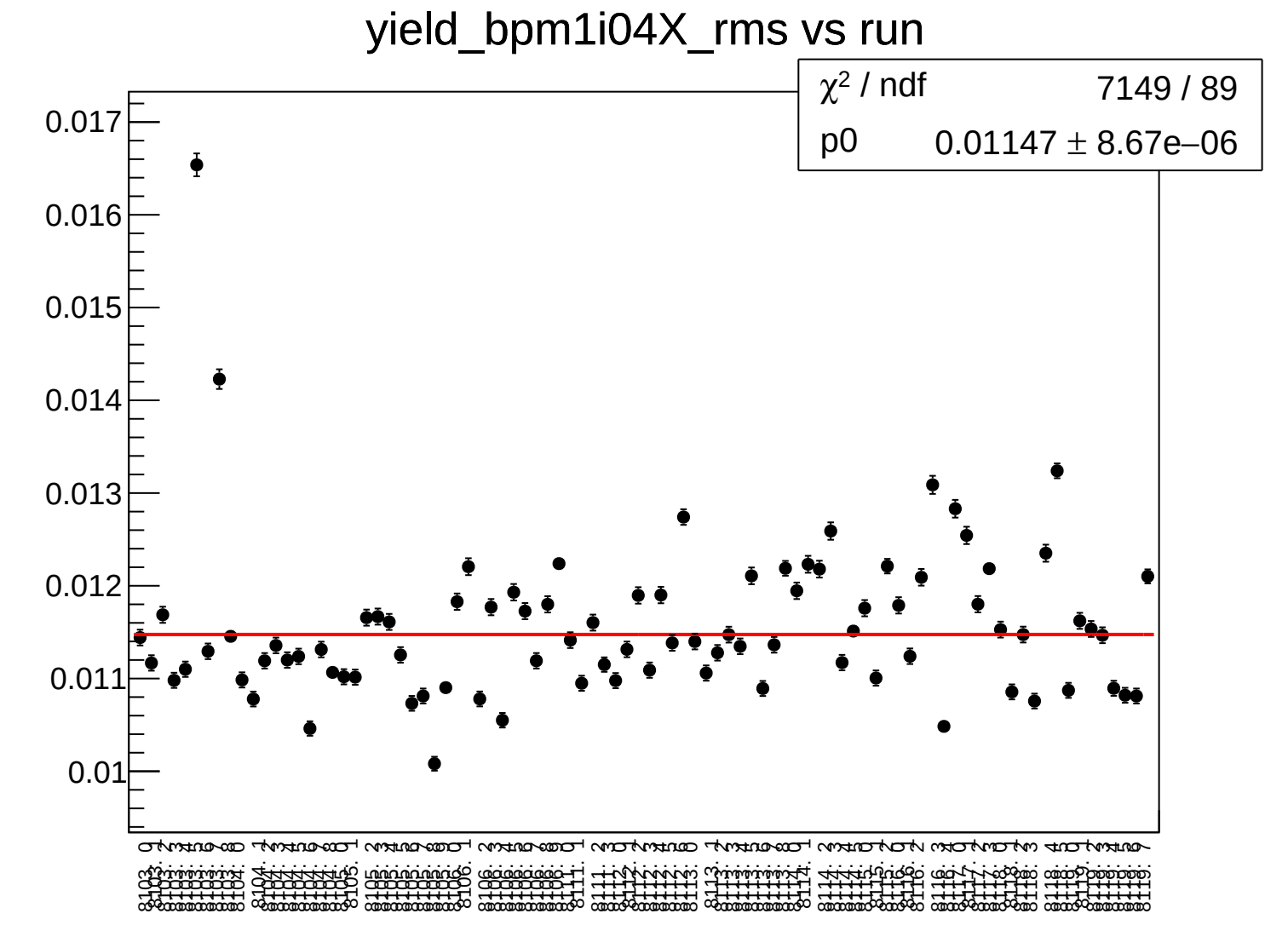

yield_bpm1i02X_rms vs run
χ² / ndf 1.163e+04 / 89
p0 0.01125 ± 8.509e–06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

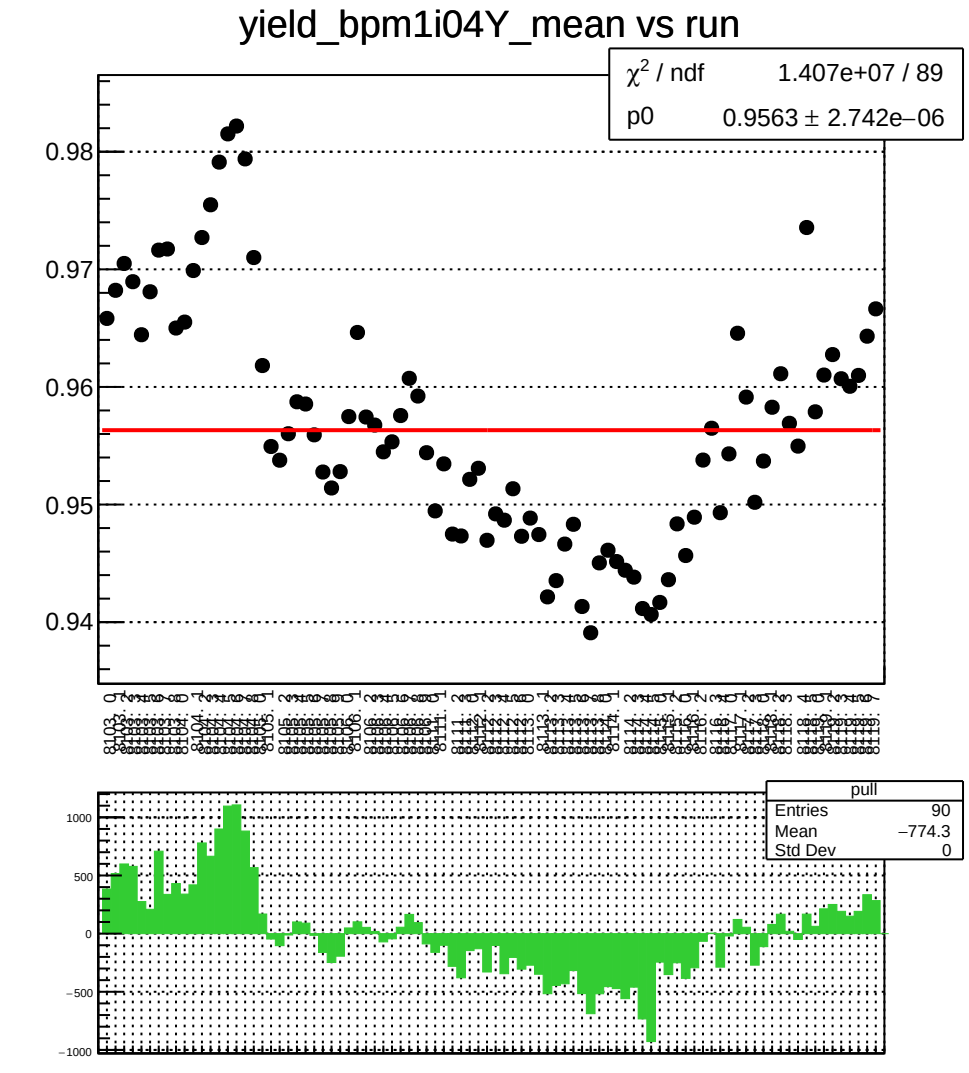

yield_bpm1i02Y_mean vs run
χ² / ndf 1.816e+06 / 89
p0 1.153 ± 9.168e−06
1.18
1.17
1.16
1.15
1.14
1.13
1.12
pull
Entries 90
Mean 2.273e+04
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 90
Mean 4.339
Std Dev 2.523
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

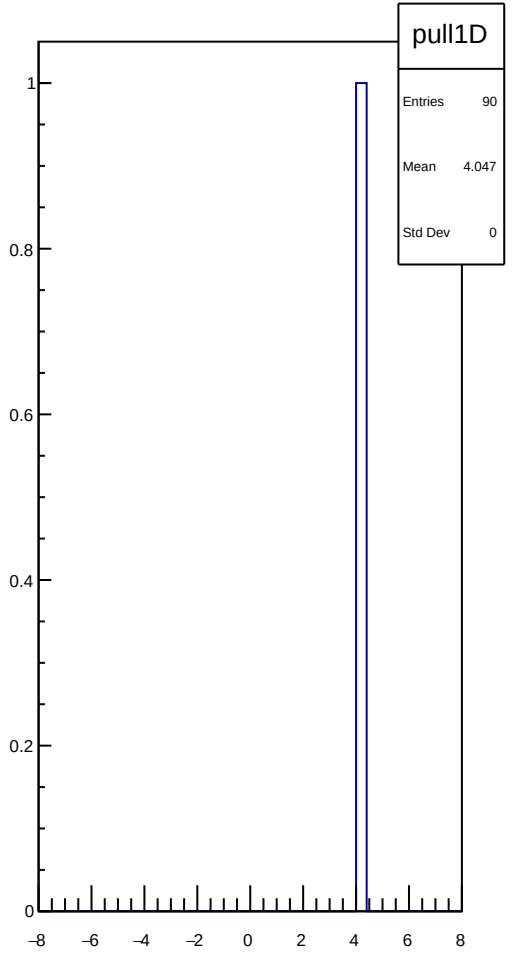

yield_bpm1i02Y_rms vs run
χ² / ndf 9926 / 89
p0 0.008572 ± 6.482e−06
0.012
0.011
0.01
0.009
0.008

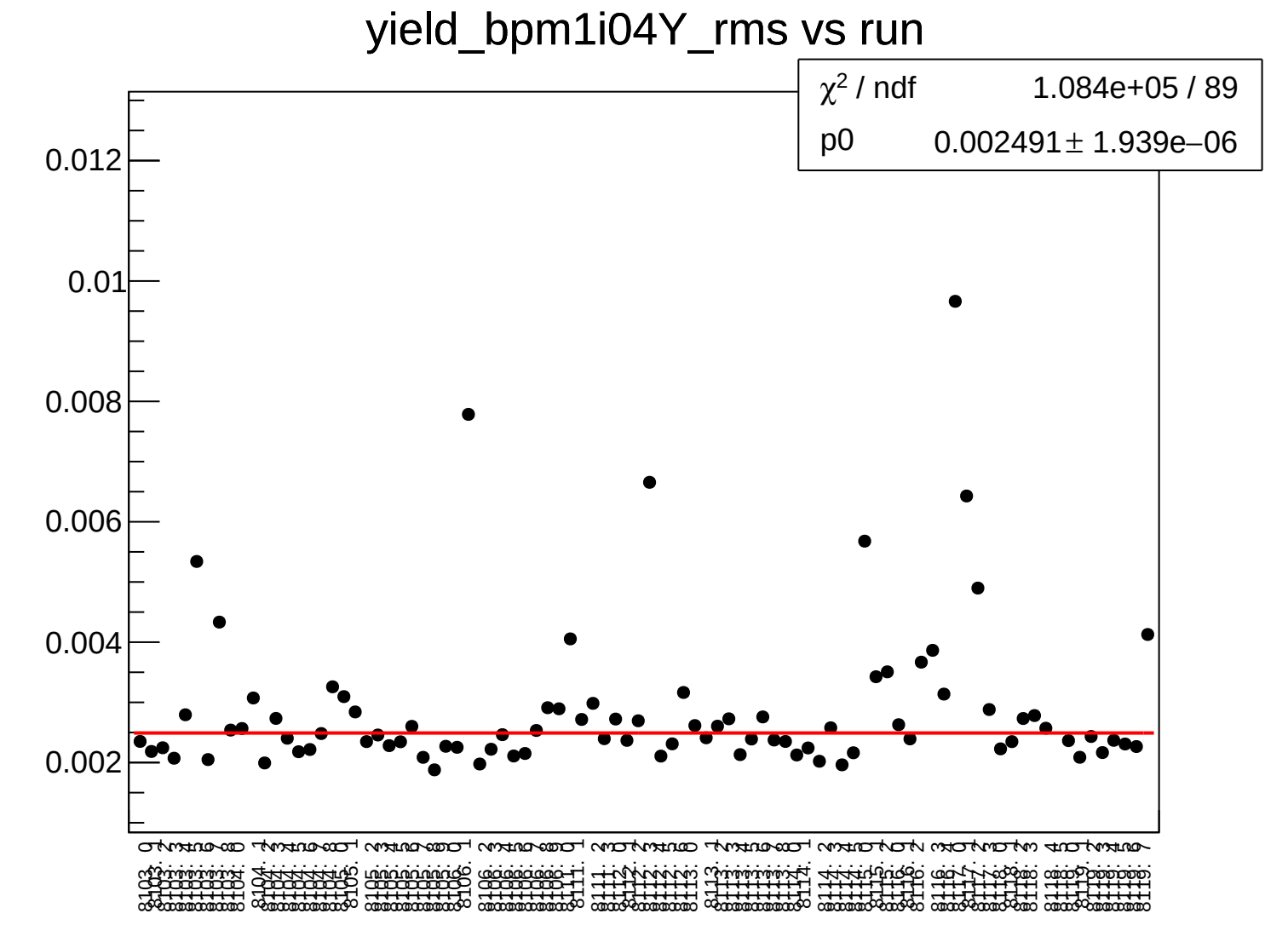

yield_bpm1i04X_mean vs run
χ² / ndf 8.799e+05 / 89
p0 −0.009606 ± 1.226e−05
0.01
0
−0.01
−0.02
−0.03
pull
Entries 90
Mean 1211
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

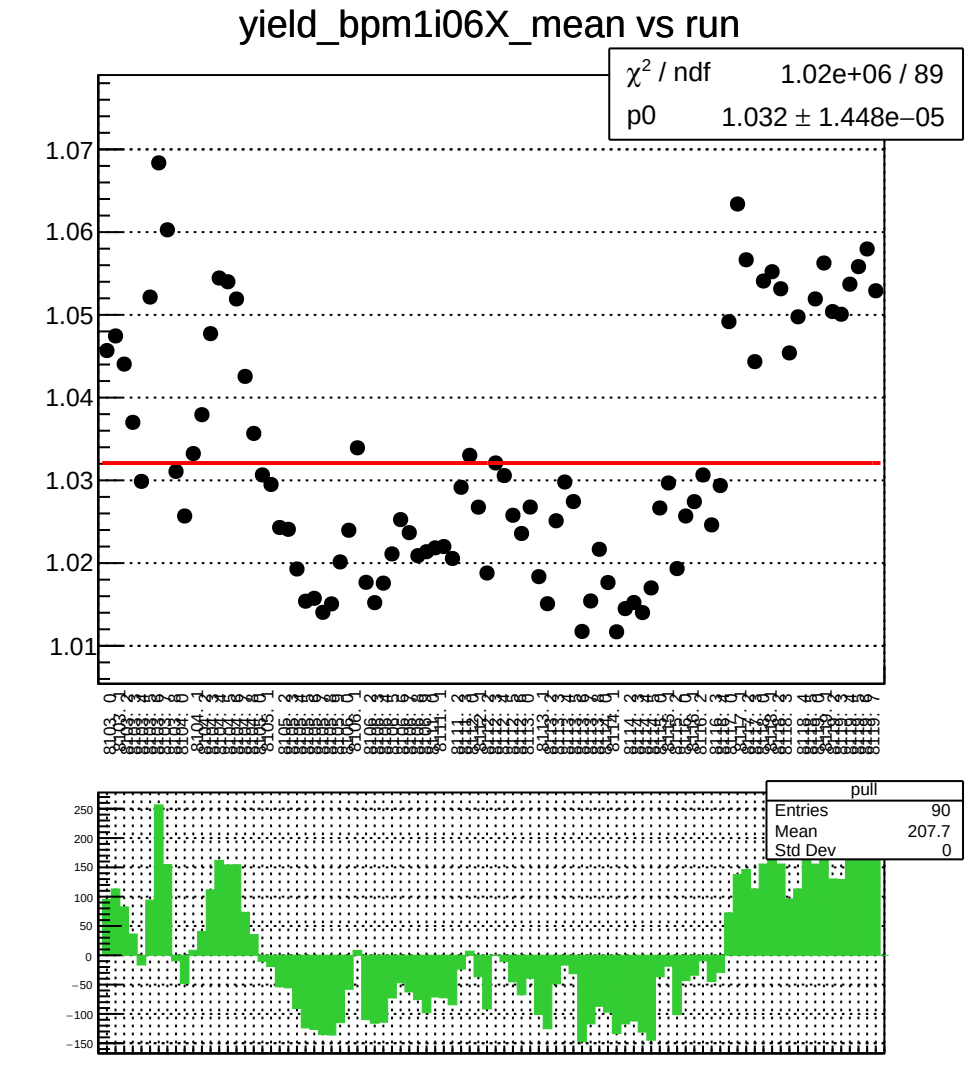

pull1D
Entries 90
Mean 0.6303
Std Dev 4.002
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

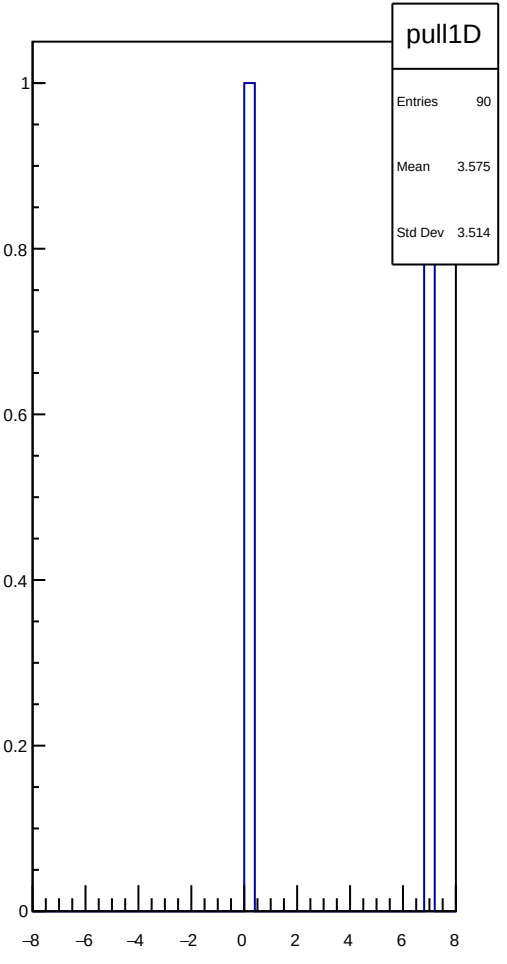

yield_bpm1i04X_rms vs run
χ² / ndf 7149 / 89
p0 0.01147 ± 8.67e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

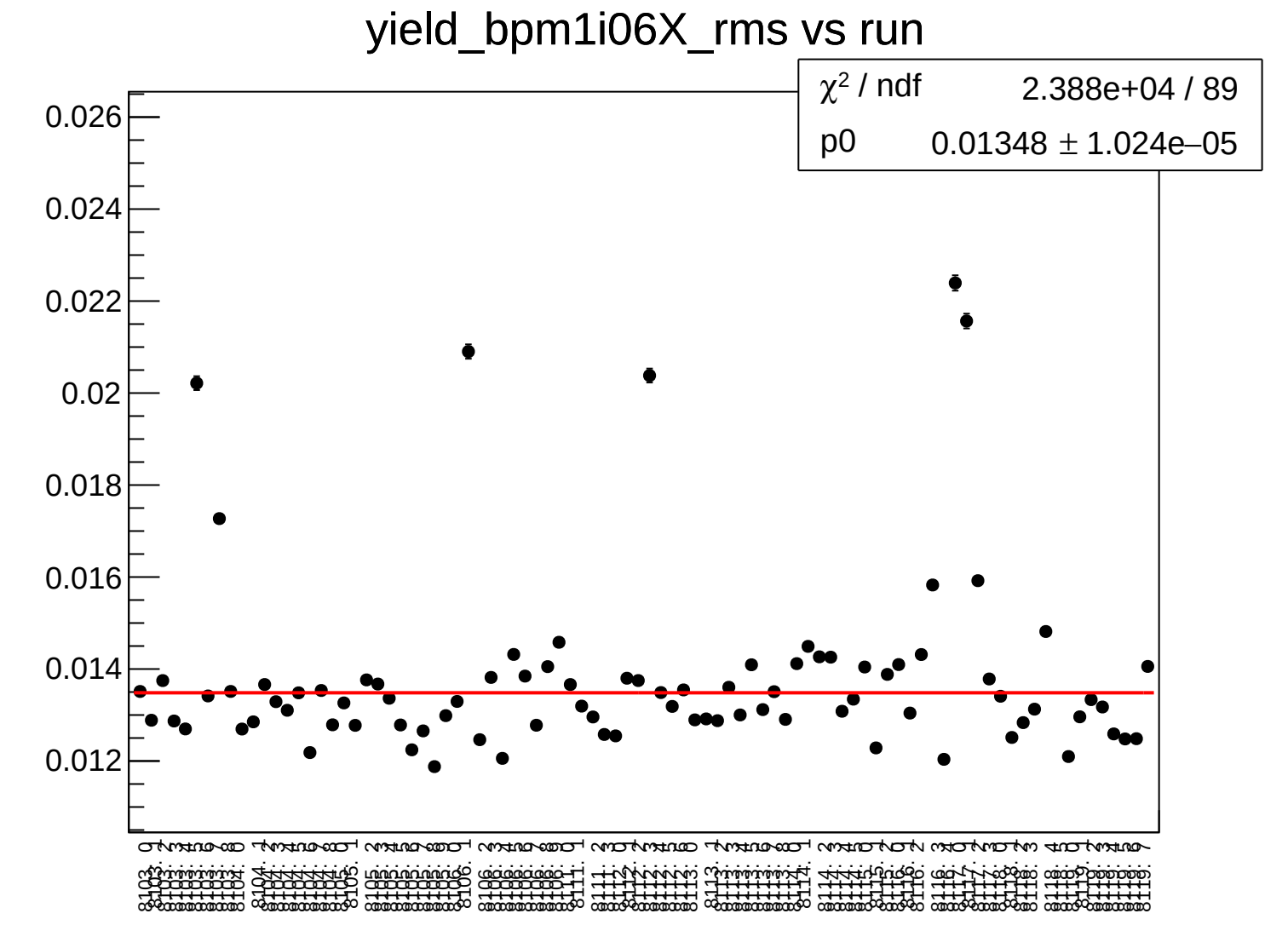

yield_bpm1i04Y_mean vs run
χ² / ndf 1.407e+07 / 89
p0 0.9563 ± 2.742e−06
0.98
0.97
0.96
0.95
0.94
pull
Entries 90
Mean −774.3
Std Dev 0
1000
500
0
−500
−1000

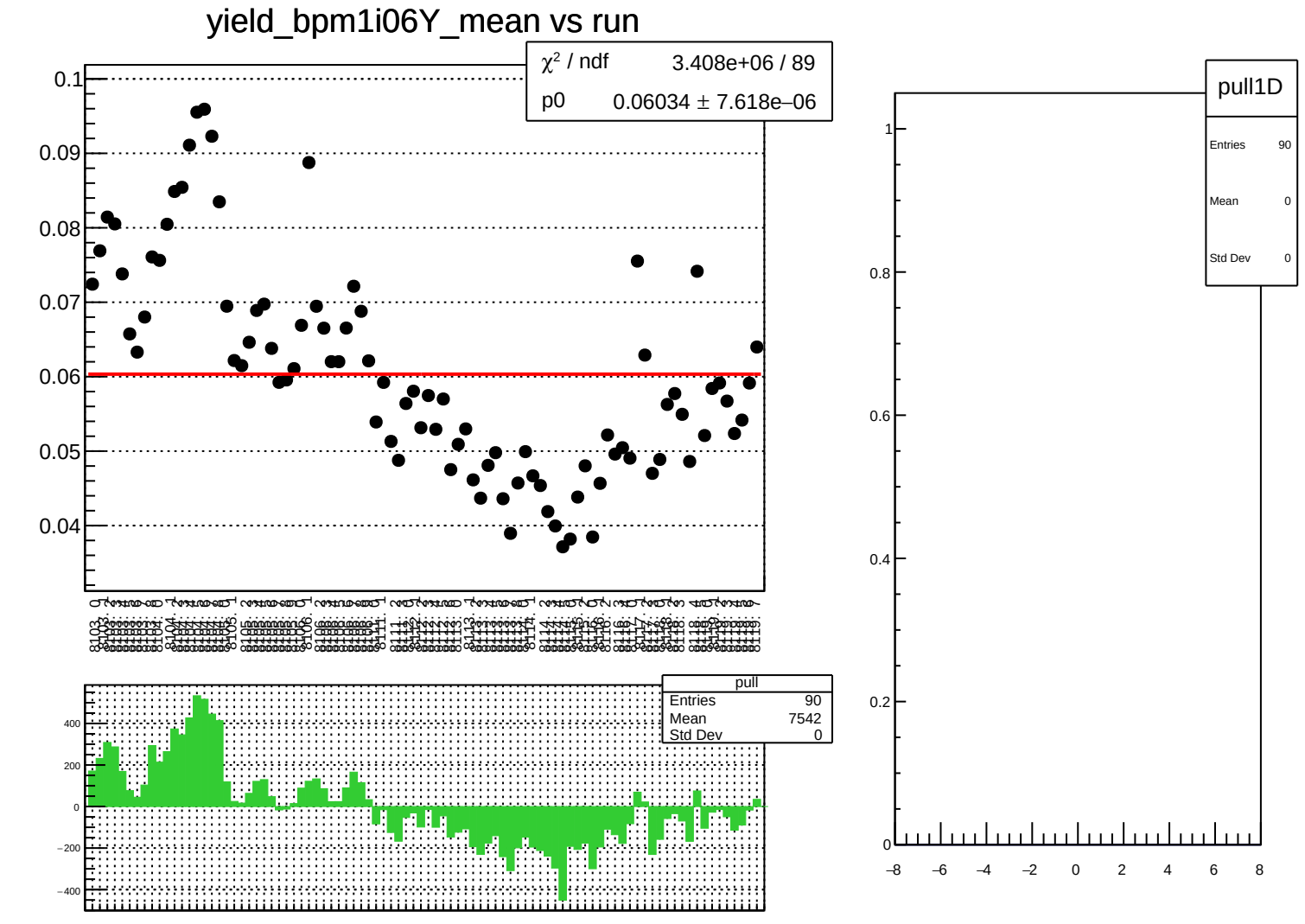

pull1D
Entries 90
Mean 4.047
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

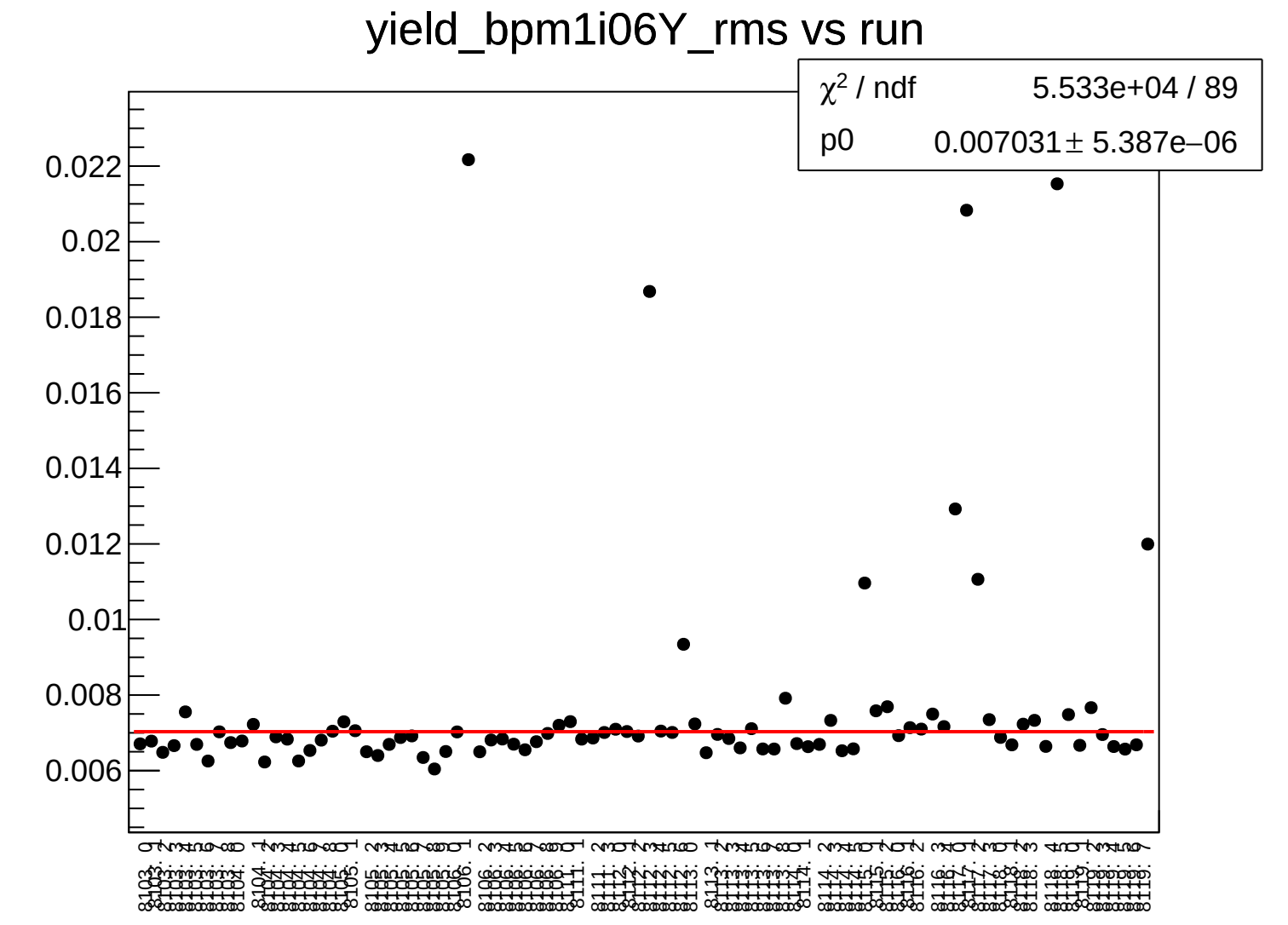

yield_bpm1i04Y_rms vs run
χ² / ndf 1.084e+05 / 89
p0 0.002491 ± 1.939e−06
0.012
0.01
0.008
0.006
0.004
0.002

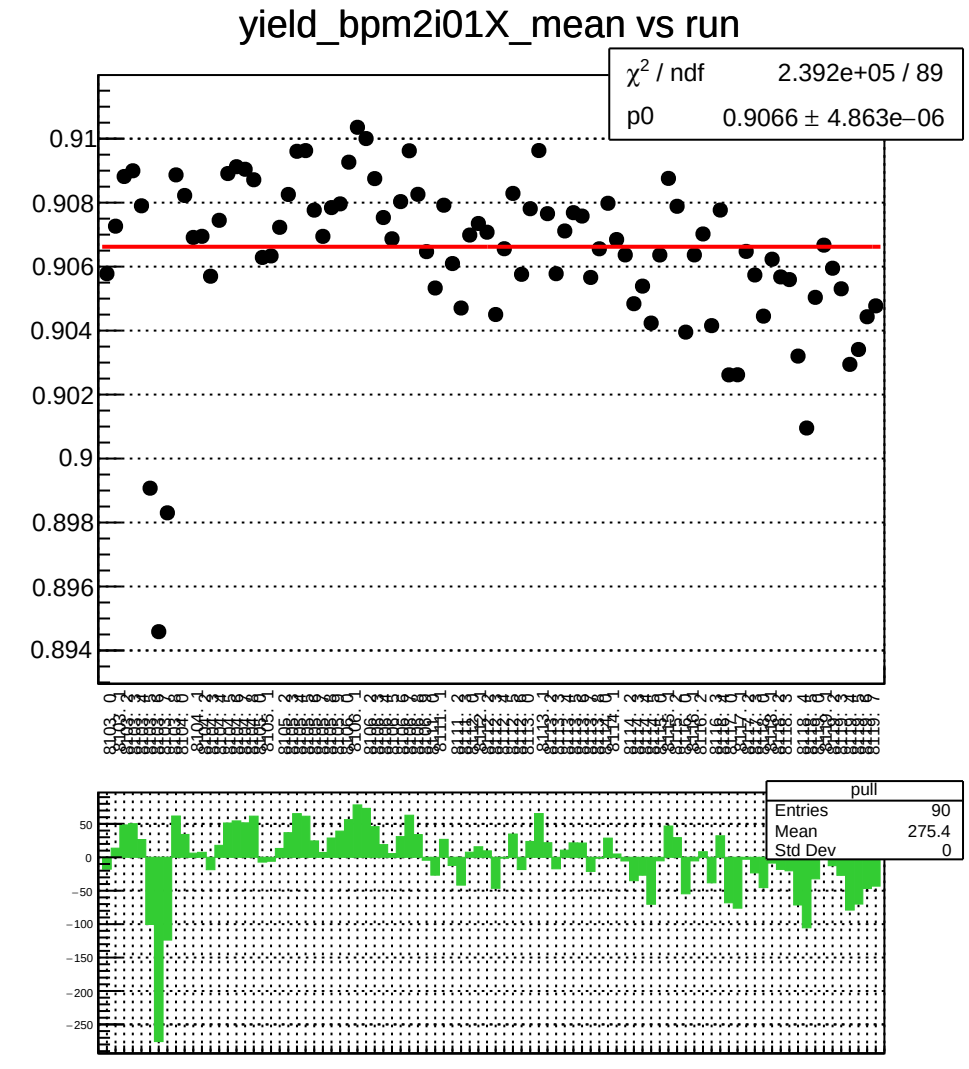

yield_bpm1i06X_mean vs run
χ² / ndf 1.02e+06 / 89
p0 1.032 ± 1.448e−05
1.07
1.06
1.05
1.04
1.03
1.02
1.01
pull
Entries 90
Mean 207.7
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

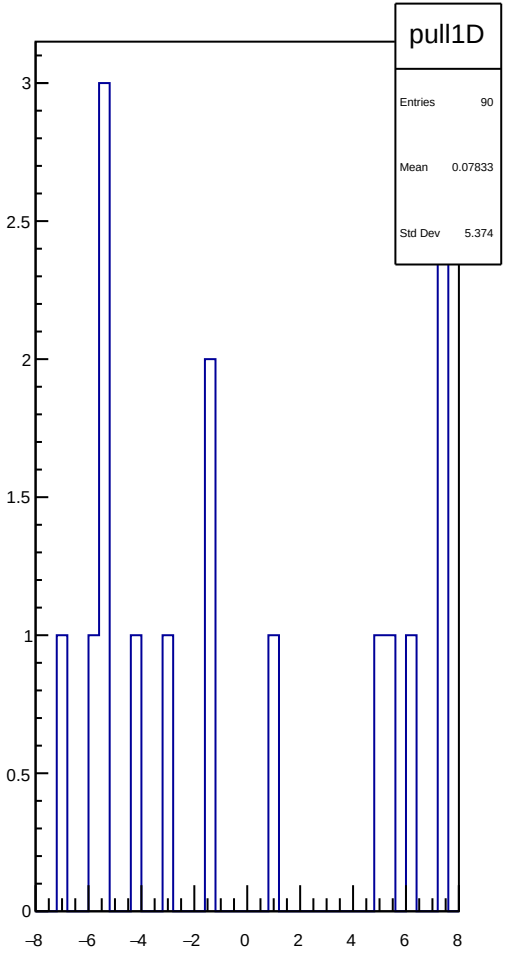

pull1D
Entries 90
Mean 3.575
Std Dev 3.514
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

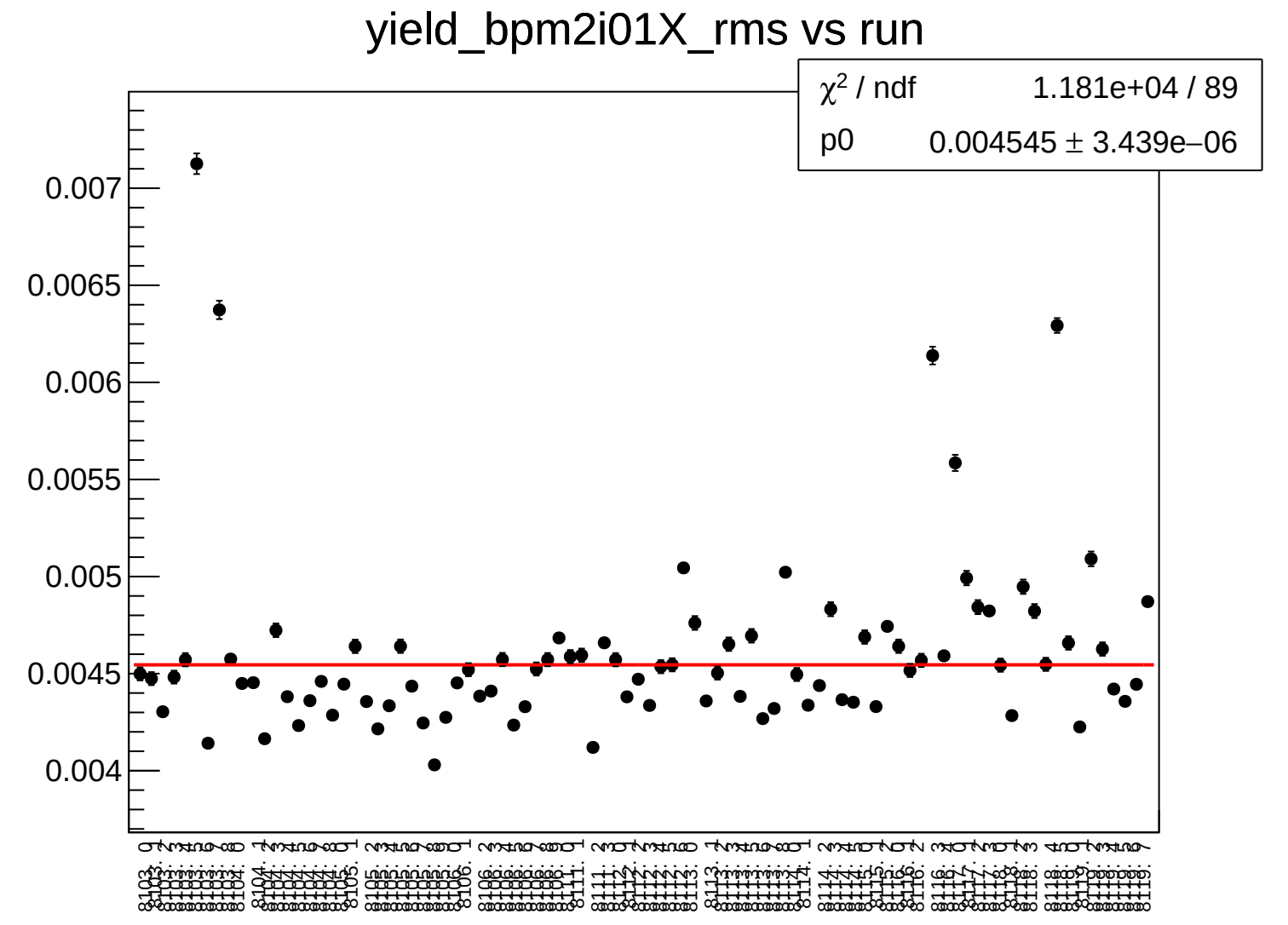

yield_bpm1i06X_rms vs run
χ² / ndf 2.388e+04 / 89
p0 0.01348 ± 1.024e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

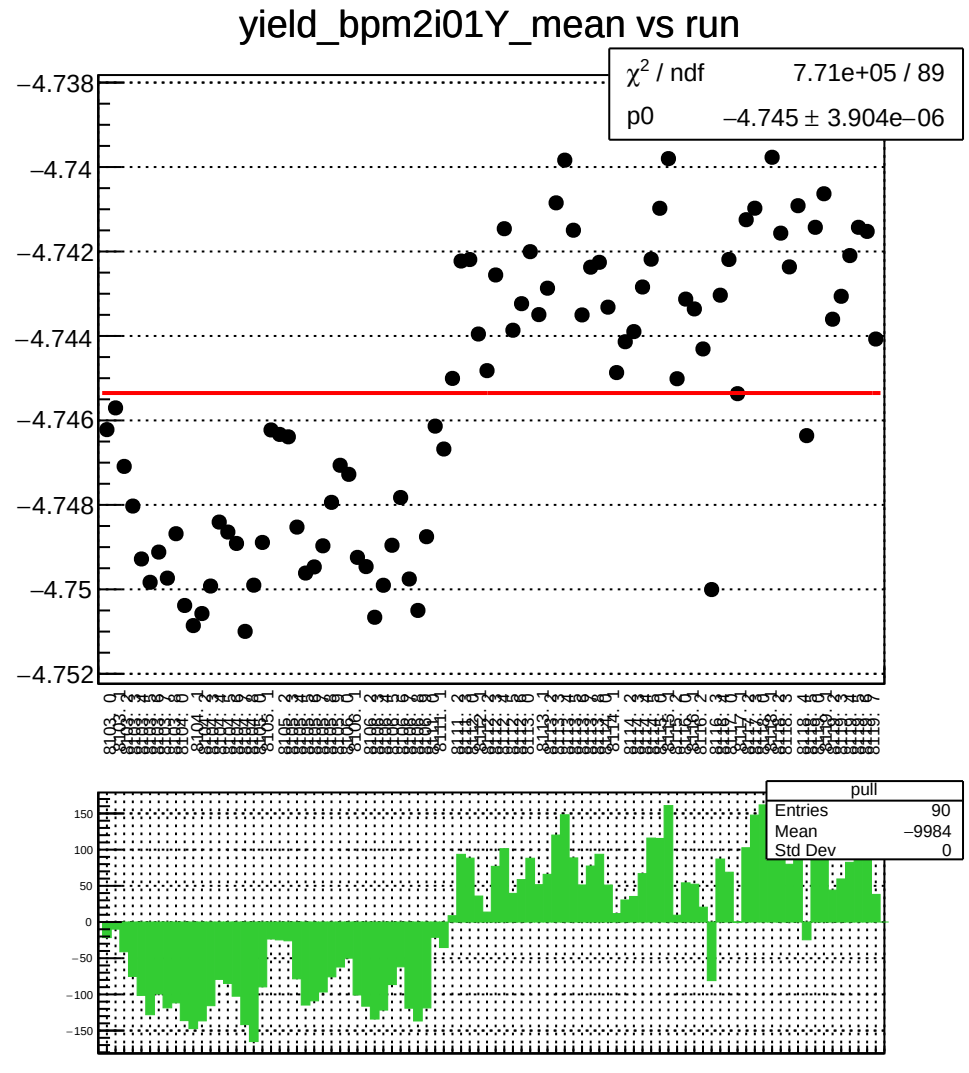

yield_bpm1i06Y_mean vs run
χ² / ndf 3.408e+06 / 89
p0 0.06034 ± 7.618e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
pull
Entries 90
Mean 7542
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

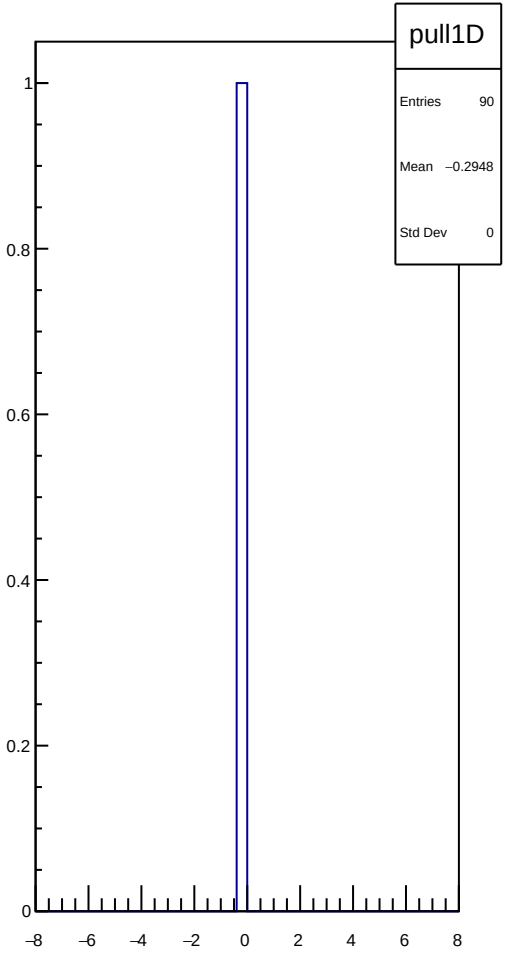

yield_bpm1i06Y_rms vs run
χ² / ndf 5.533e+04 / 89
p0 0.007031 ± 5.387e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

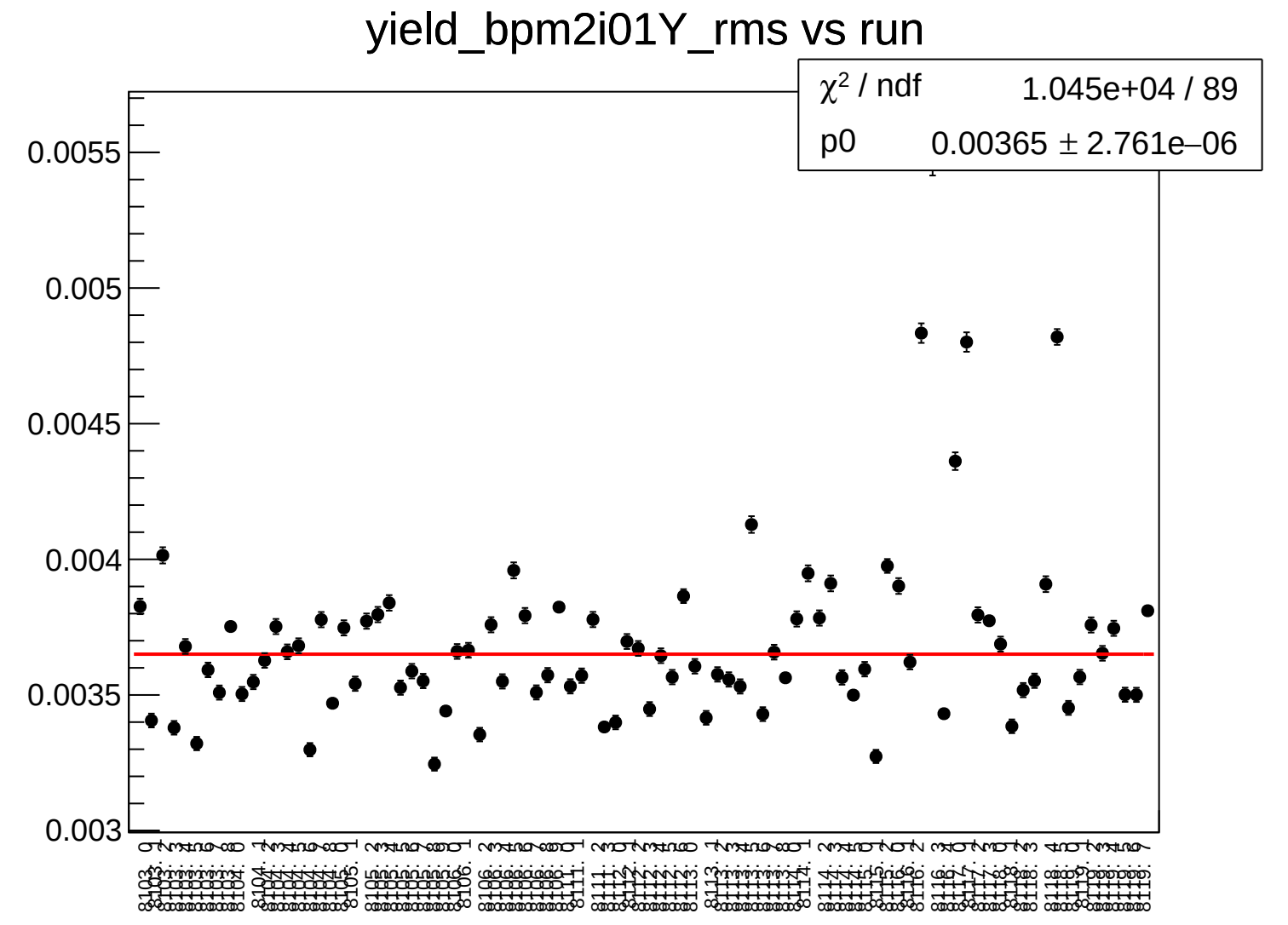

yield_bpm2i01X_mean vs run
χ² / ndf 2.392e+05 / 89
p0 0.9066 ± 4.863e−06
pull
Entries 90
Mean 275.4
Std Dev 0

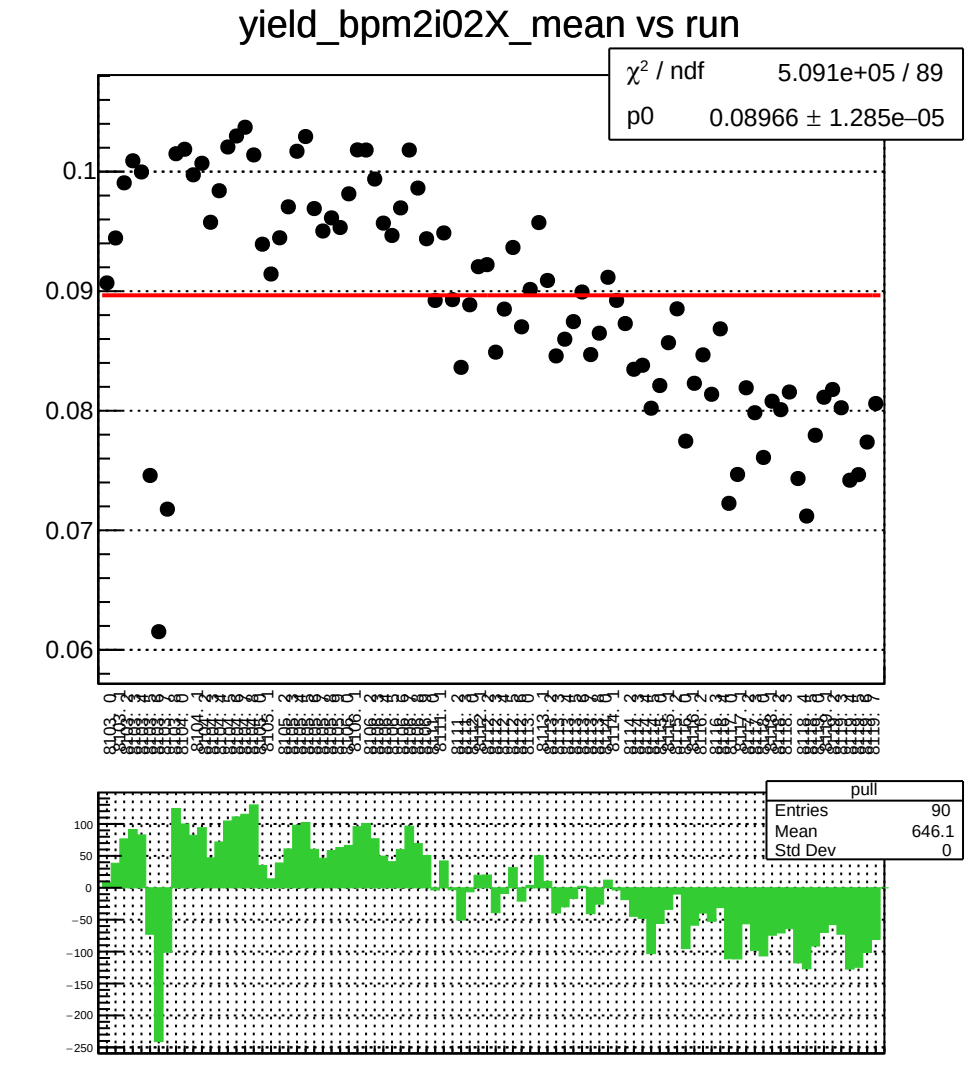

pull1D
Entries 90
Mean 0.07833
Std Dev 5.374

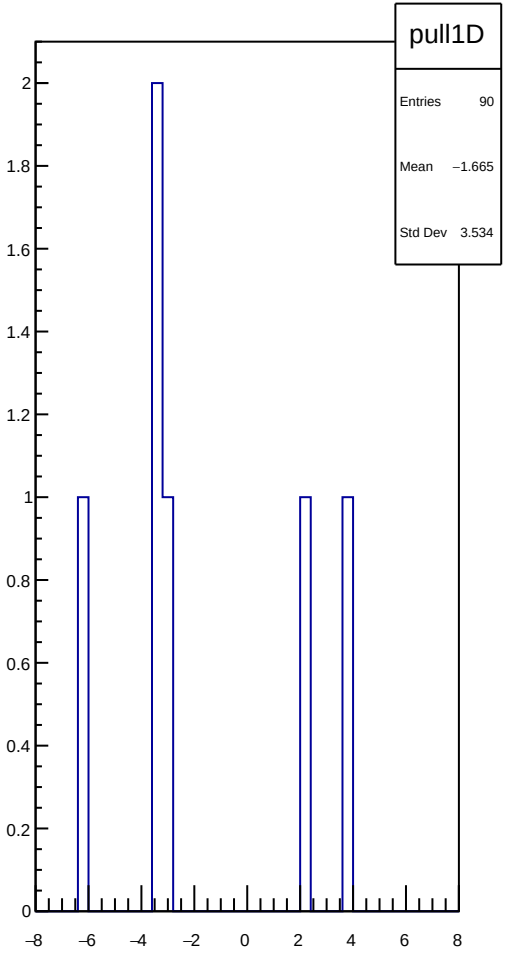

yield_bpm2i01X_rms vs run
χ² / ndf 1.181e+04 / 89
p0 0.004545 ± 3.439e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

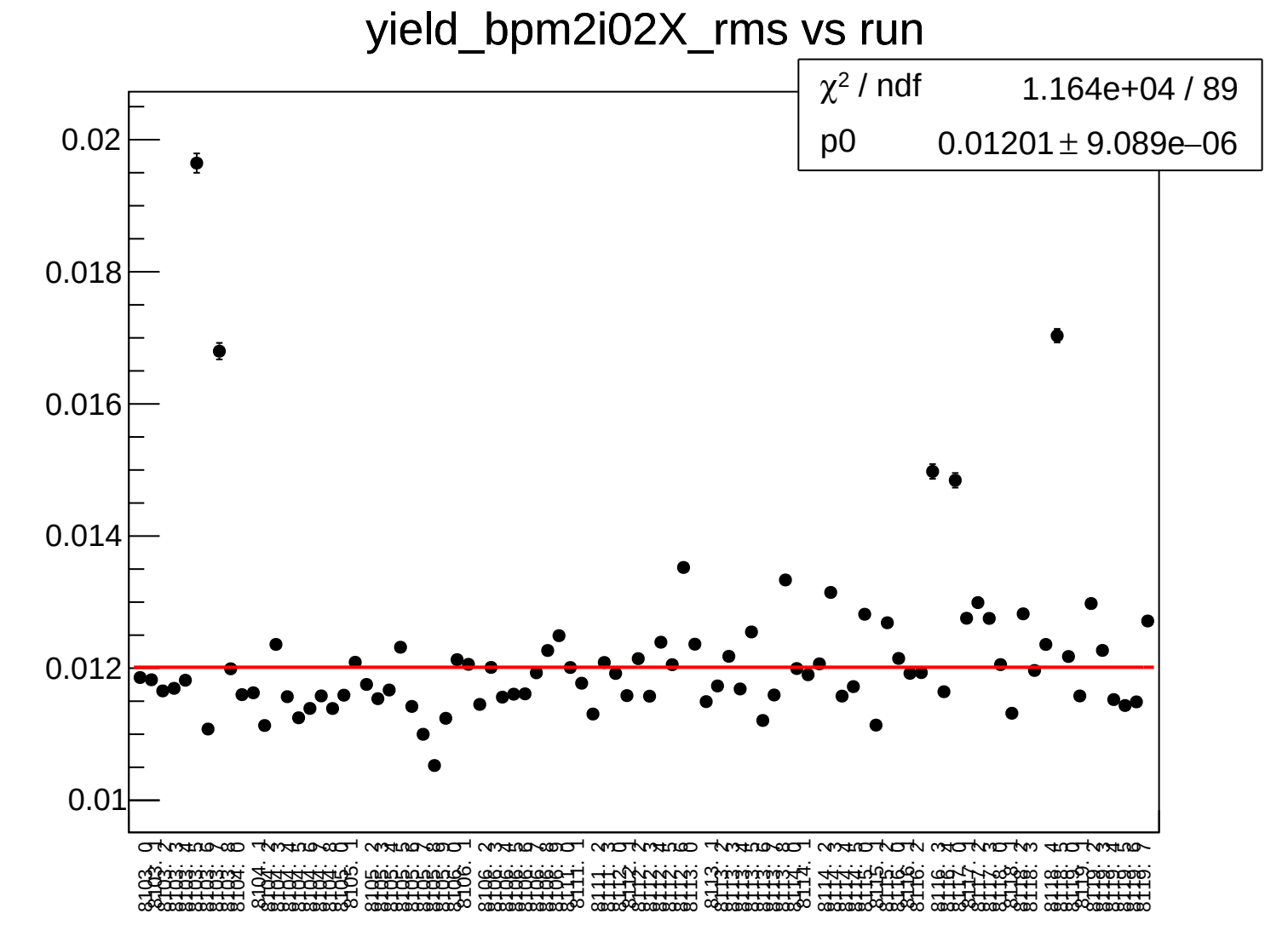

yield_bpm2i01Y_mean vs run
χ² / ndf 7.71e+05 / 89
p0 −4.745 ± 3.904e−06
−4.738
−4.74
−4.742
−4.744
−4.746
−4.748
−4.75
−4.752
pull
Entries 90
Mean −9984
Std Dev 0
150
100
50
0
−50
−100
−150

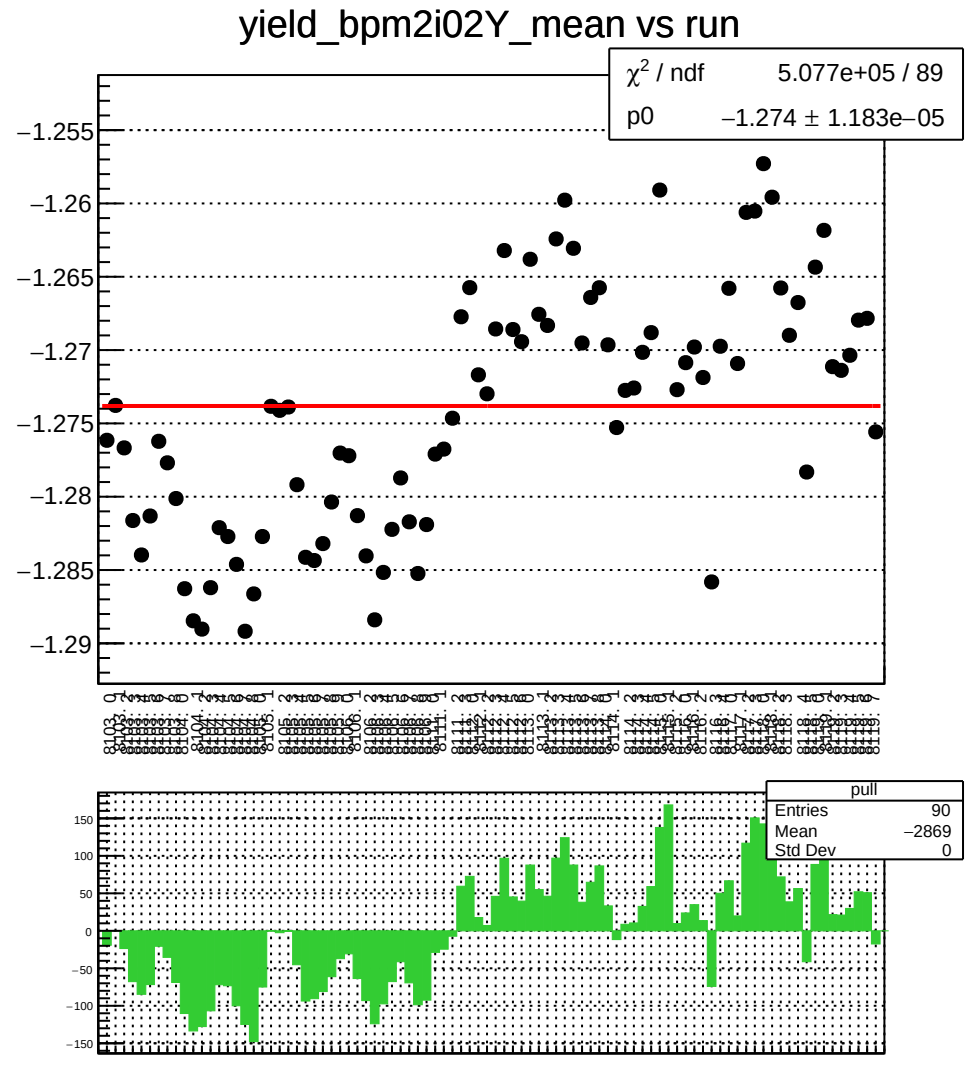

pull1D
Entries 90
Mean −0.2948
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

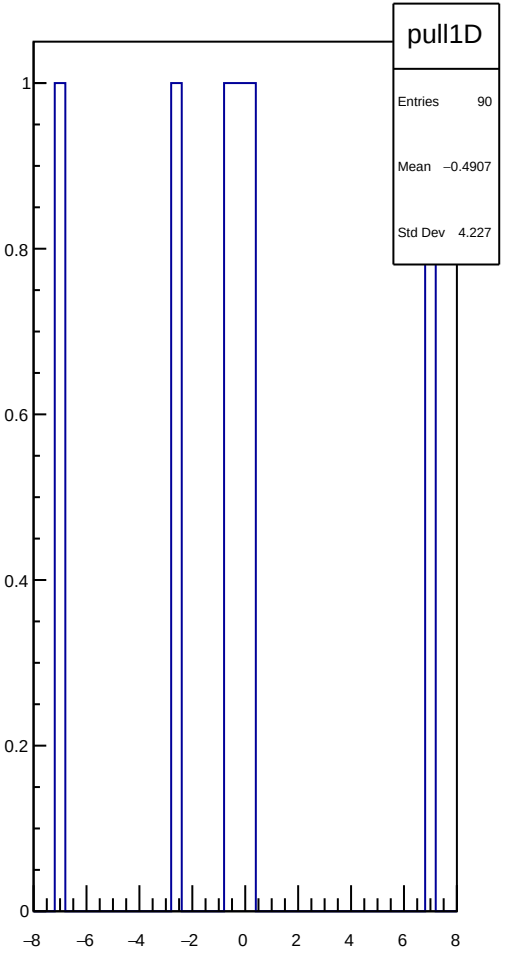

yield_bpm2i01Y_rms vs run
χ² / ndf 1.045e+04 / 89
p0 0.00365 ± 2.761e–06
0.0055
0.005
0.0045
0.004
0.0035
0.003

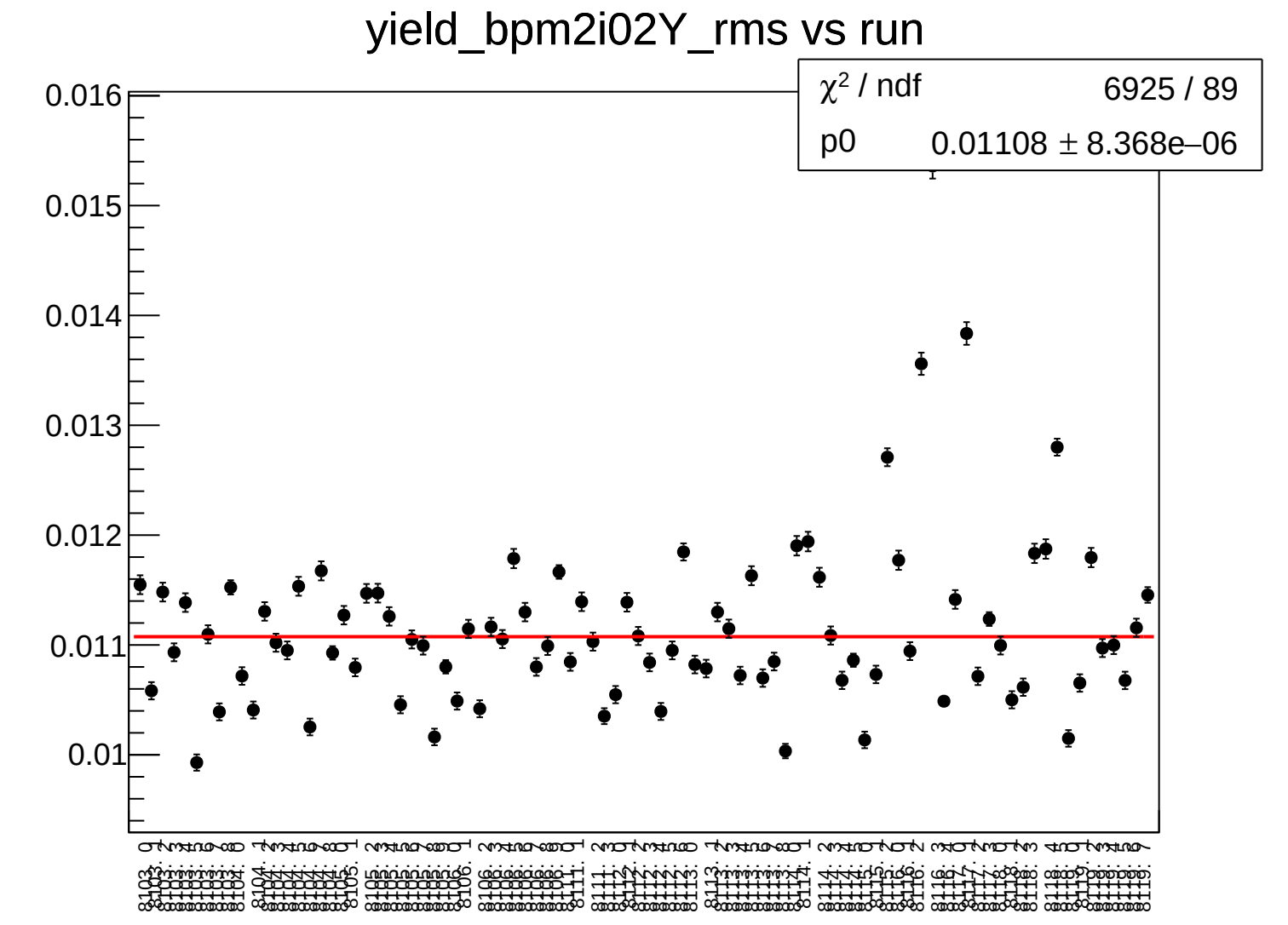

yield_bpm2i02X_mean vs run
χ² / ndf 5.091e+05 / 89
p0 0.08966 ± 1.285e−05
0.1
0.09
0.08
0.07
0.06
pull
Entries 90
Mean 646.1
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

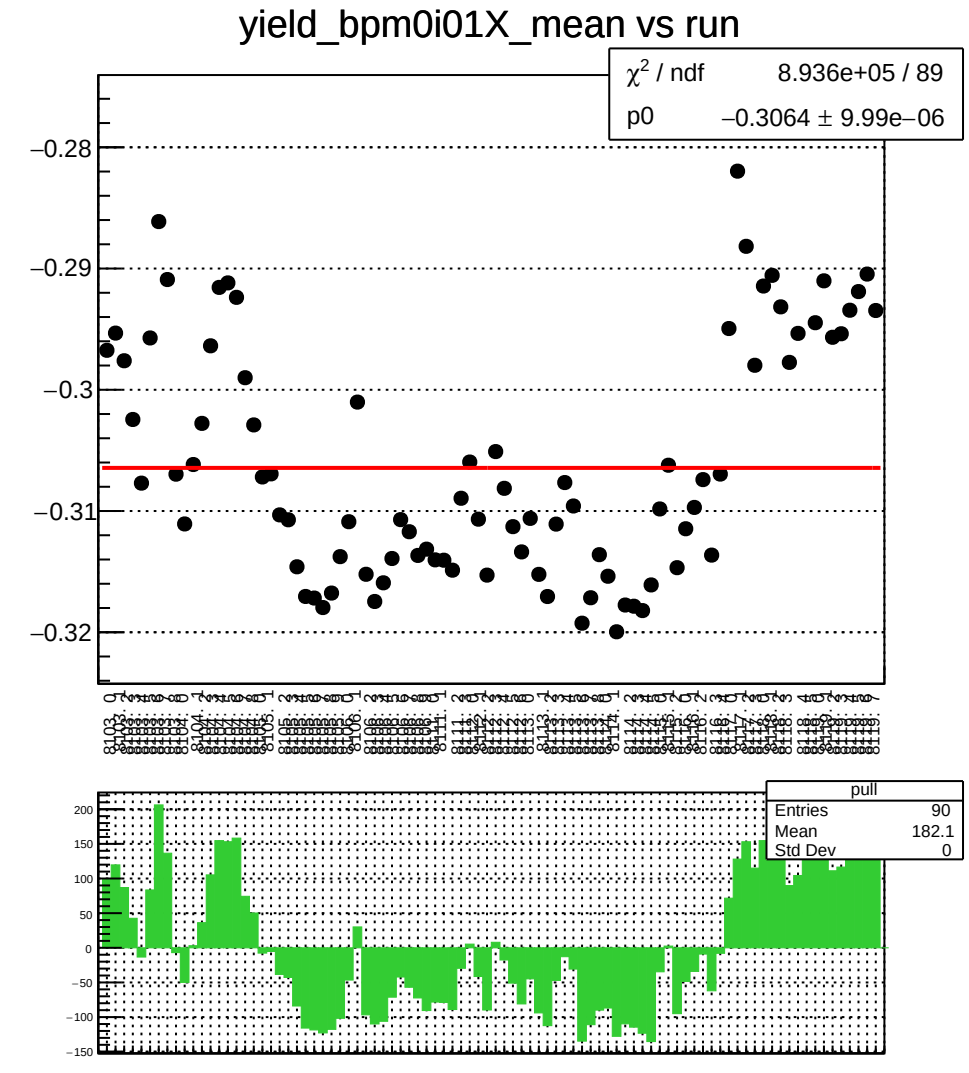

pull1D
Entries 90
Mean −1.665
Std Dev 3.534
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

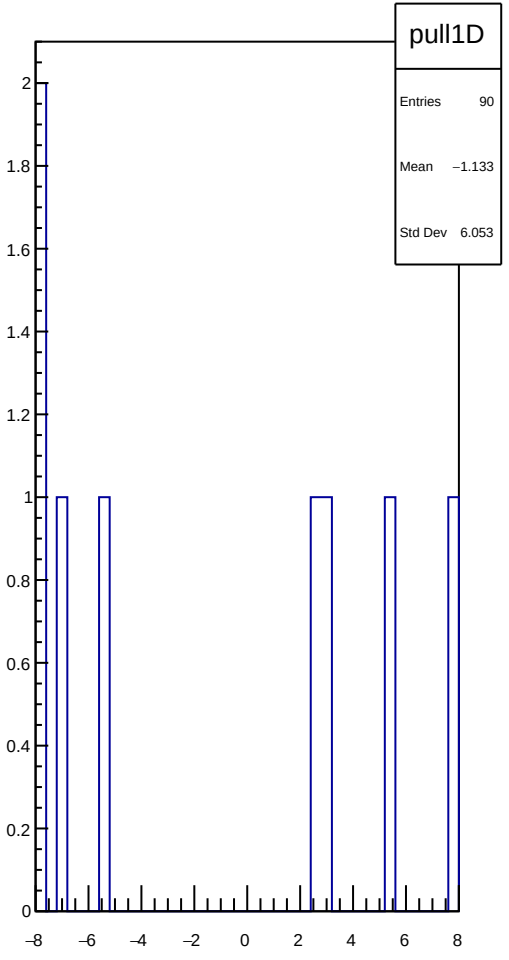

yield_bpm2i02X_rms vs run
χ² / ndf 1.164e+04 / 89
p0 0.01201 ± 9.089e–06
0.02
0.018
0.016
0.014
0.012
0.01

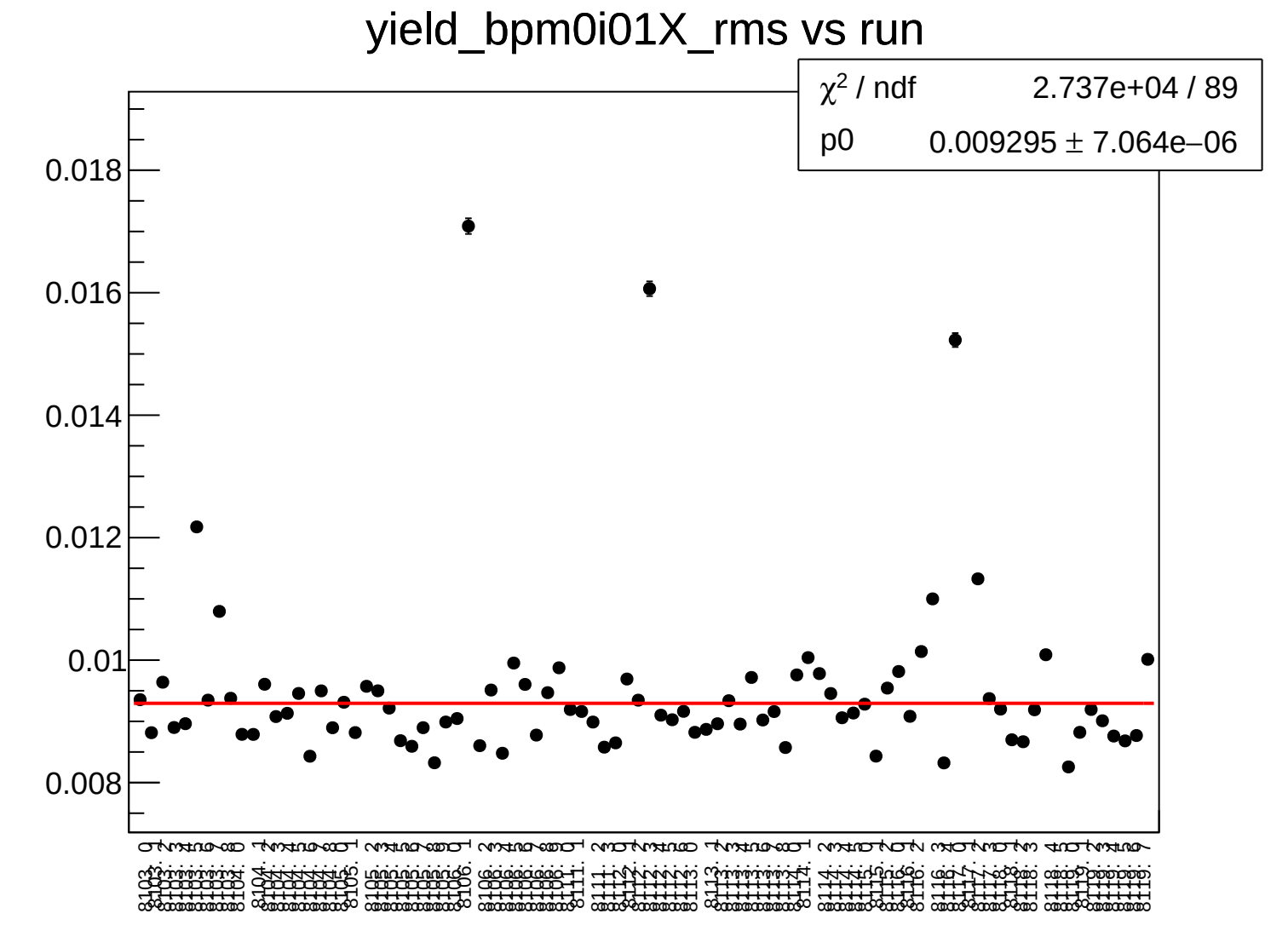

yield_bpm2i02Y_mean vs run
χ² / ndf 5.077e+05 / 89
p0 −1.274 ± 1.183e−05
−1.255
−1.26
−1.265
−1.27
−1.275
−1.28
−1.285
−1.29
pull
Entries 90
Mean −2869
Std Dev 0
150
100
50
0
−50
−100
−150

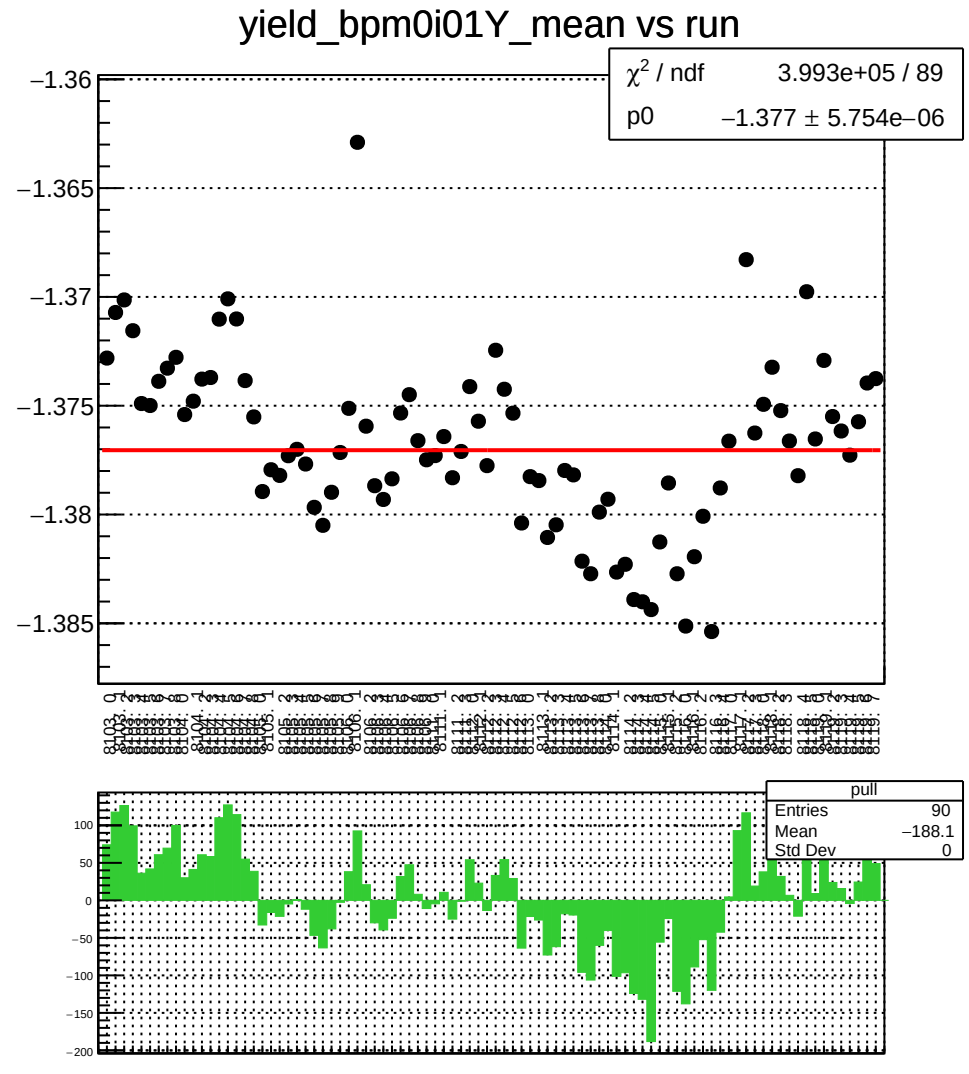

pull1D
Entries 90
Mean −0.4907
Std Dev 4.227
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

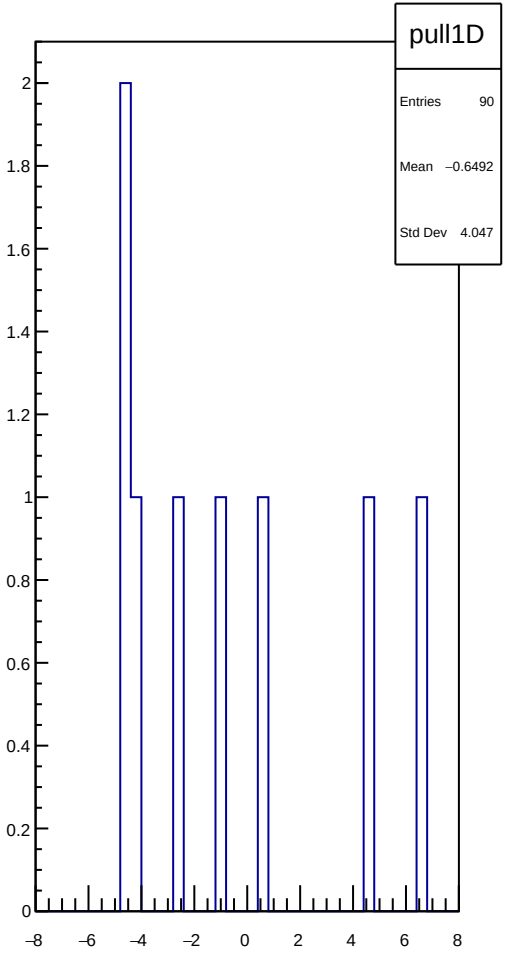

yield_bpm2i02Y_rms vs run
χ² / ndf 6925 / 89
p0 0.01108 ± 8.368e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

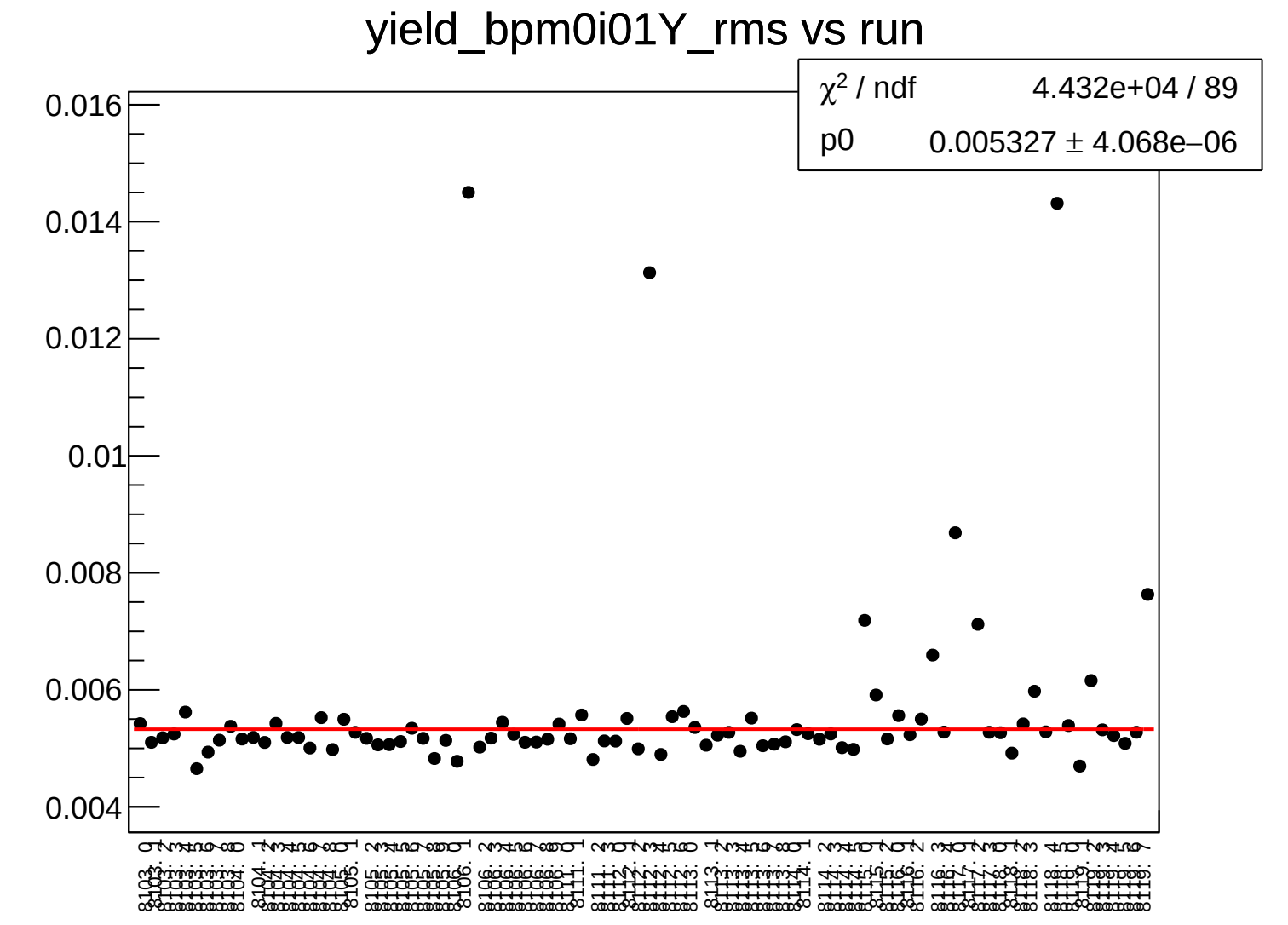

yield_bpm0i01X_mean vs run
χ² / ndf 8.936e+05 / 89
p0 −0.3064 ± 9.99e−06
−0.28
−0.29
−0.3
−0.31
−0.32
pull
Entries 90
Mean 182.1
Std Dev 0
200
150
100
50
0
−50
−100
−150

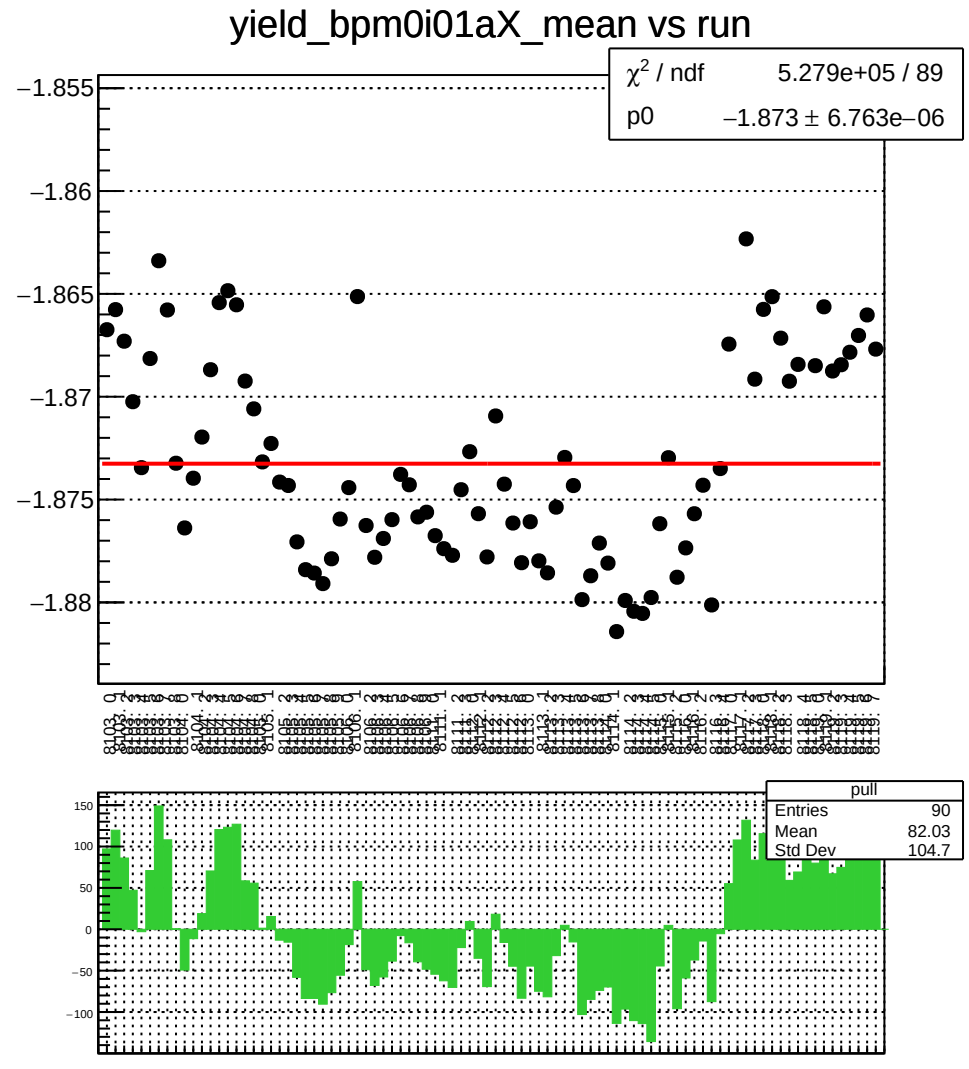

pull1D
Entries 90
Mean −1.133
Std Dev 6.053
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

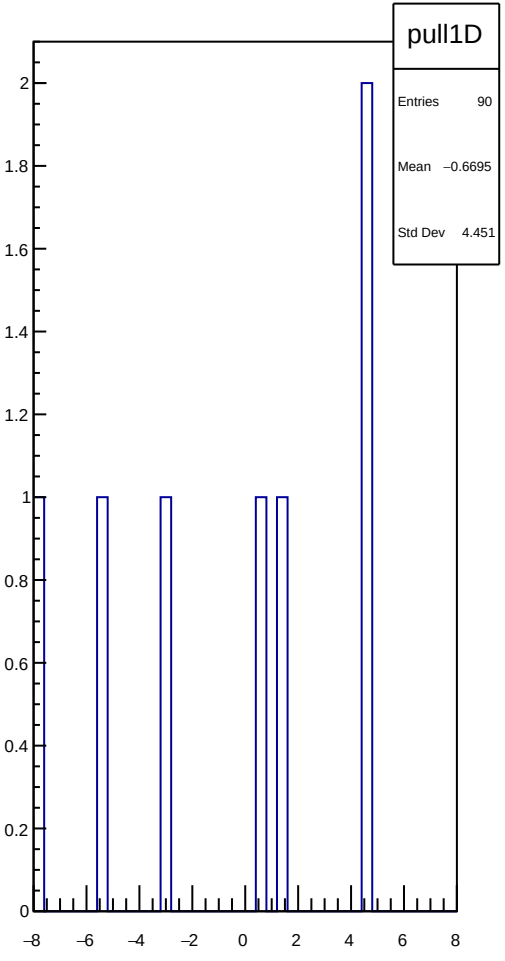

yield_bpm0i01X_rms vs run
χ² / ndf 2.737e+04 / 89
p0 0.009295 ± 7.064e−06
0.018
0.016
0.014
0.012
0.01
0.008

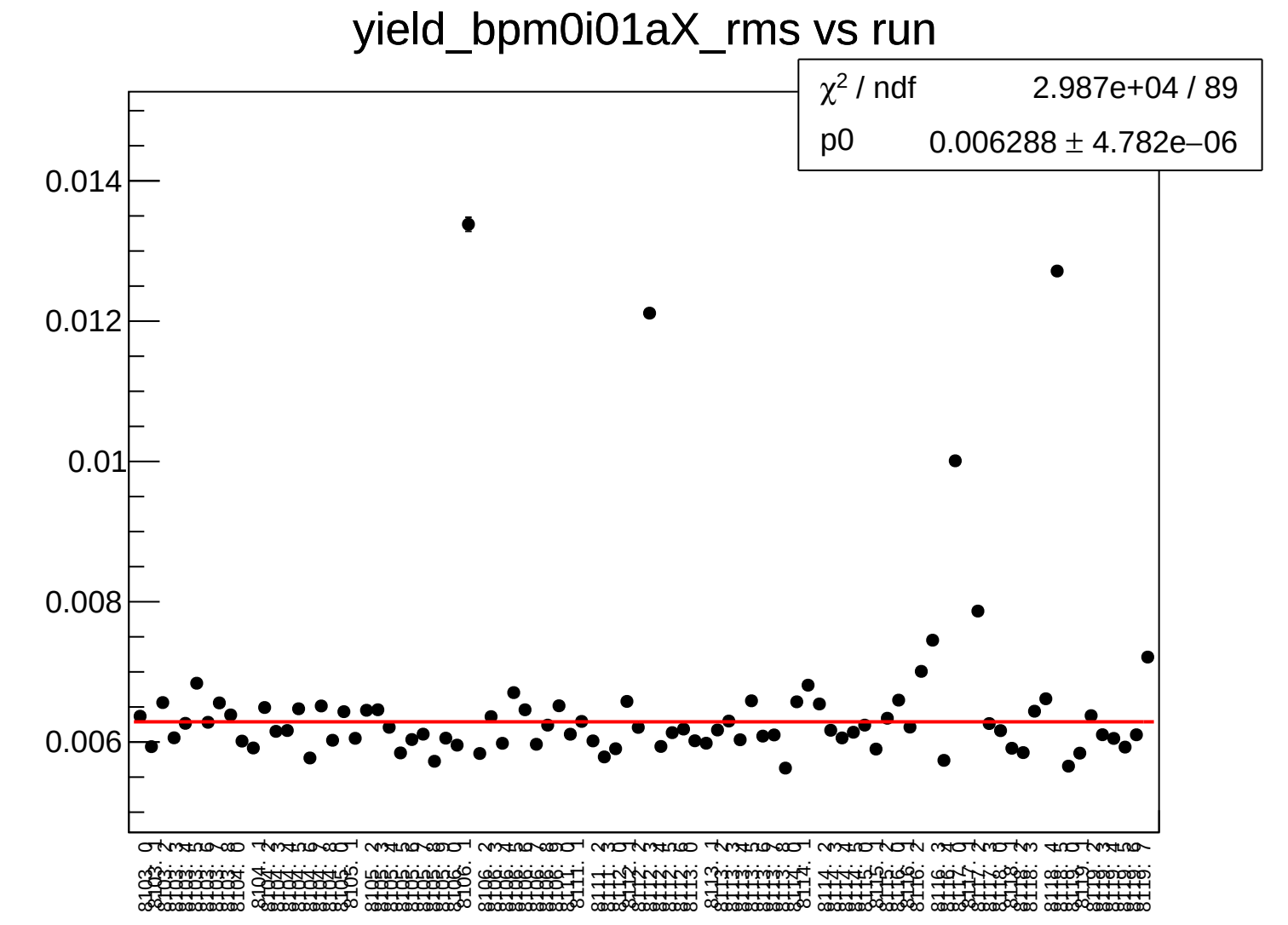

yield_bpm0i01Y_mean vs run
χ² / ndf 3.993e+05 / 89
p0 −1.377 ± 5.754e−06
−1.36
−1.365
−1.37
−1.375
−1.38
−1.385
pull
Entries 90
Mean −188.1
Std Dev 0
100
50
0
−50
−100
−150
−200

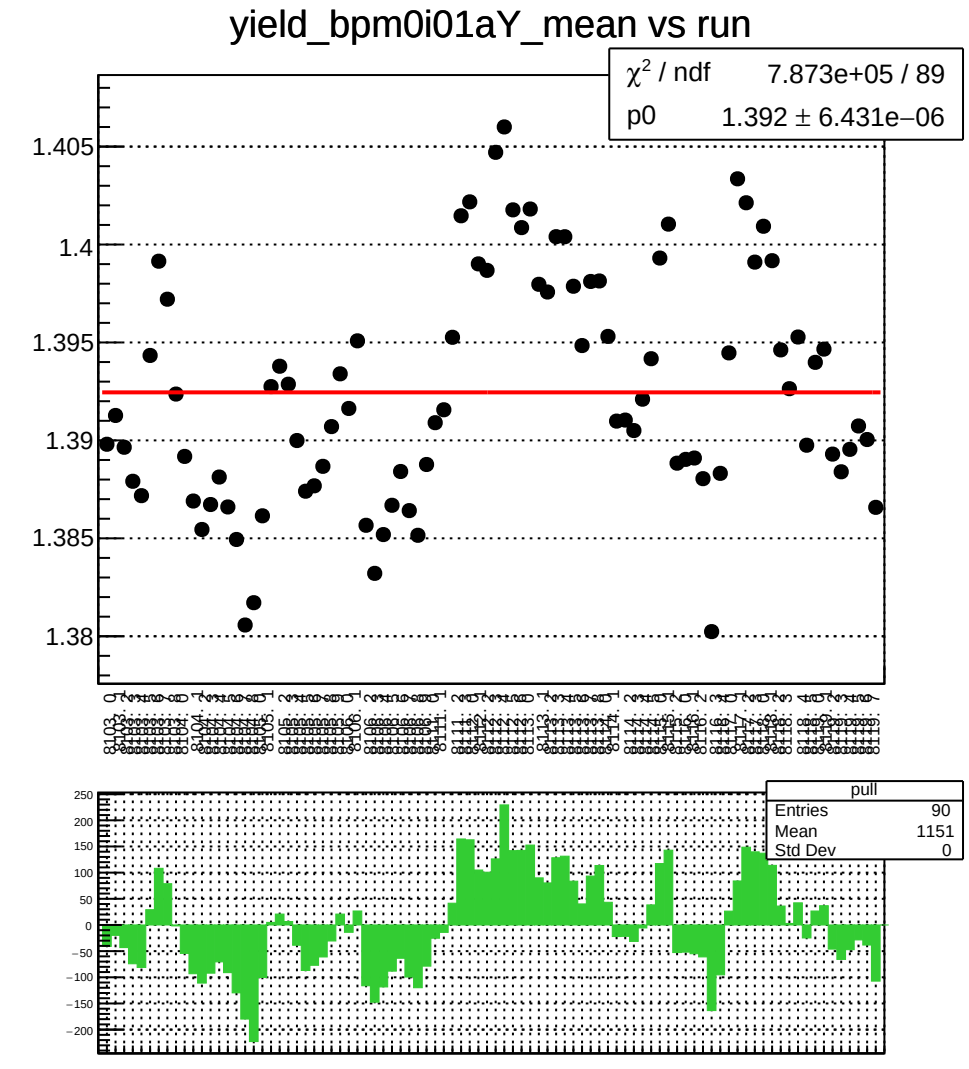

pull1D
Entries 90
Mean −0.6492
Std Dev 4.047
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

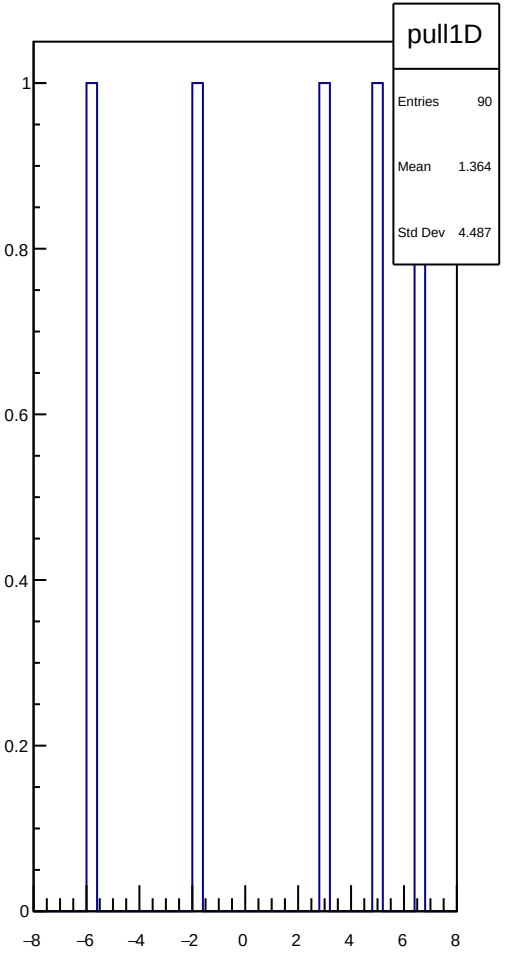

yield_bpm0i01Y_rms vs run
χ² / ndf 4.432e+04 / 89
p0 0.005327 ± 4.068e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

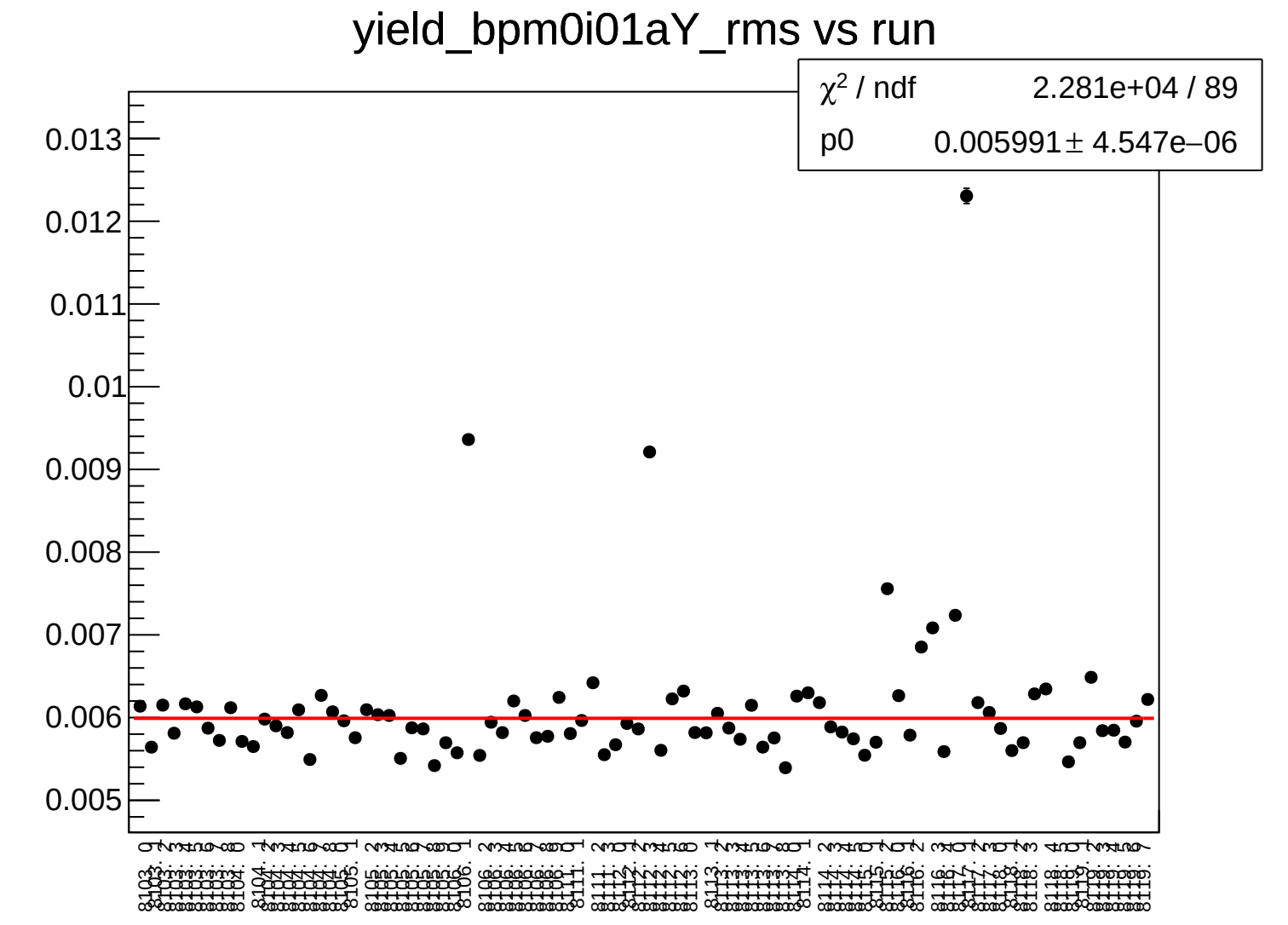

yield_bpm0i01aX_mean vs run
χ² / ndf 5.279e+05 / 89
p0 −1.873 ± 6.763e−06
−1.855
−1.86
−1.865
−1.87
−1.875
−1.88
pull
Entries 90
Mean 82.03
Std Dev 104.7
150
100
50
0
−50
−100

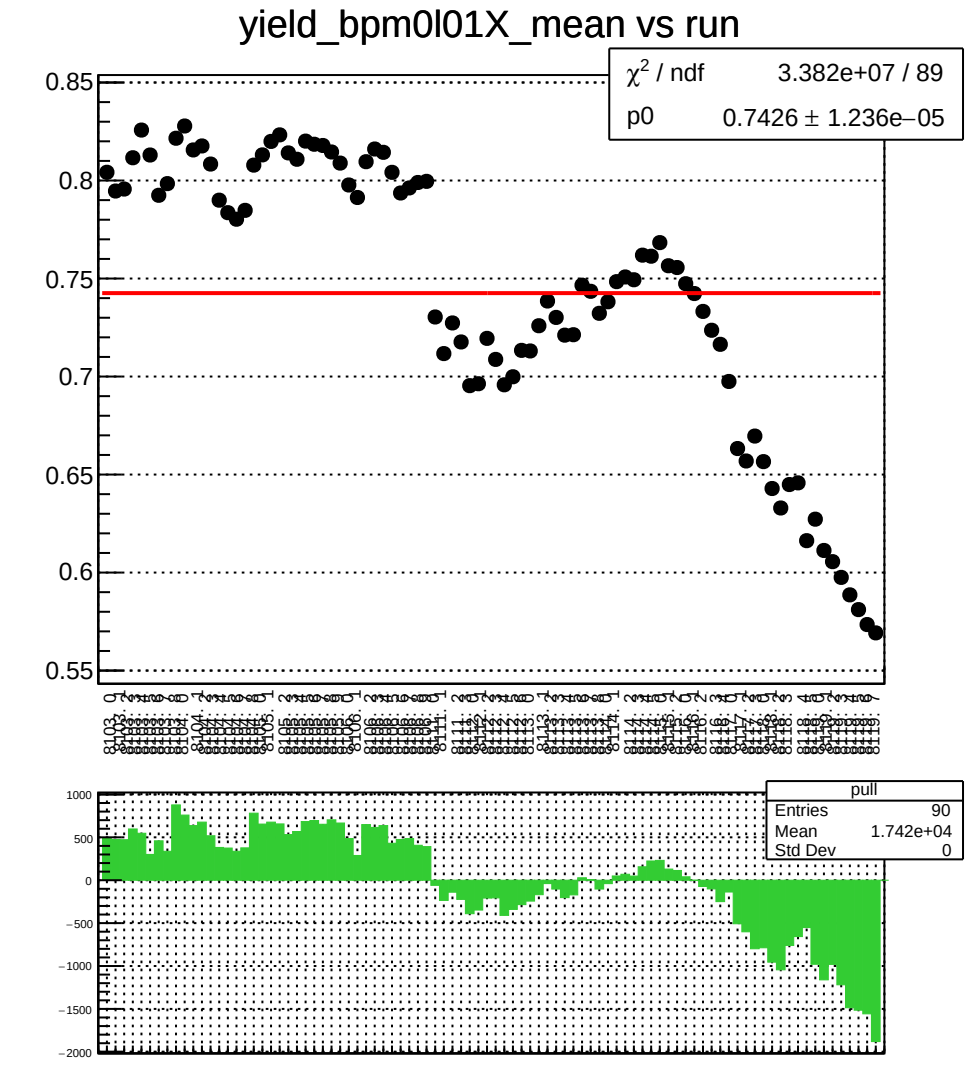

pull1D
Entries 90
Mean −0.6695
Std Dev 4.451
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

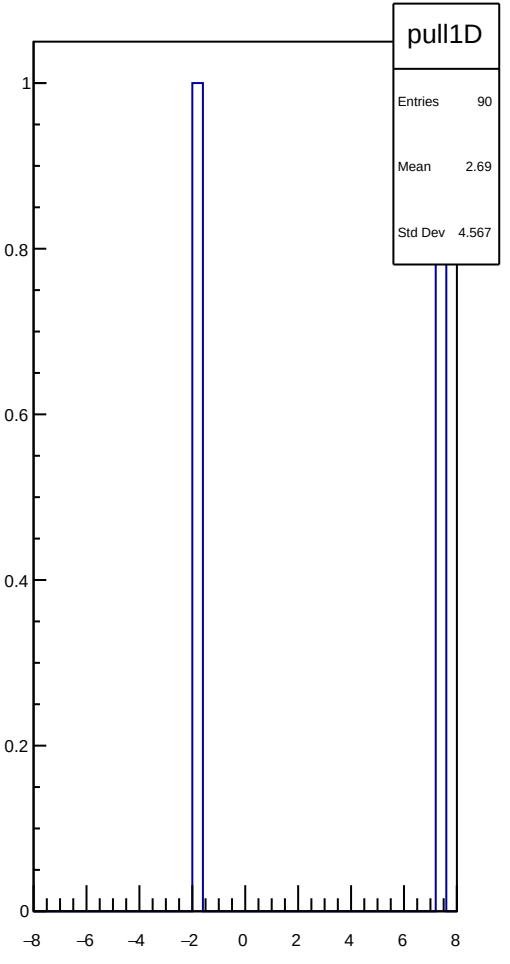

yield_bpm0i01aX_rms vs run
χ² / ndf 2.987e+04 / 89
p0 0.006288 ± 4.782e−06
0.014
0.012
0.01
0.008
0.006

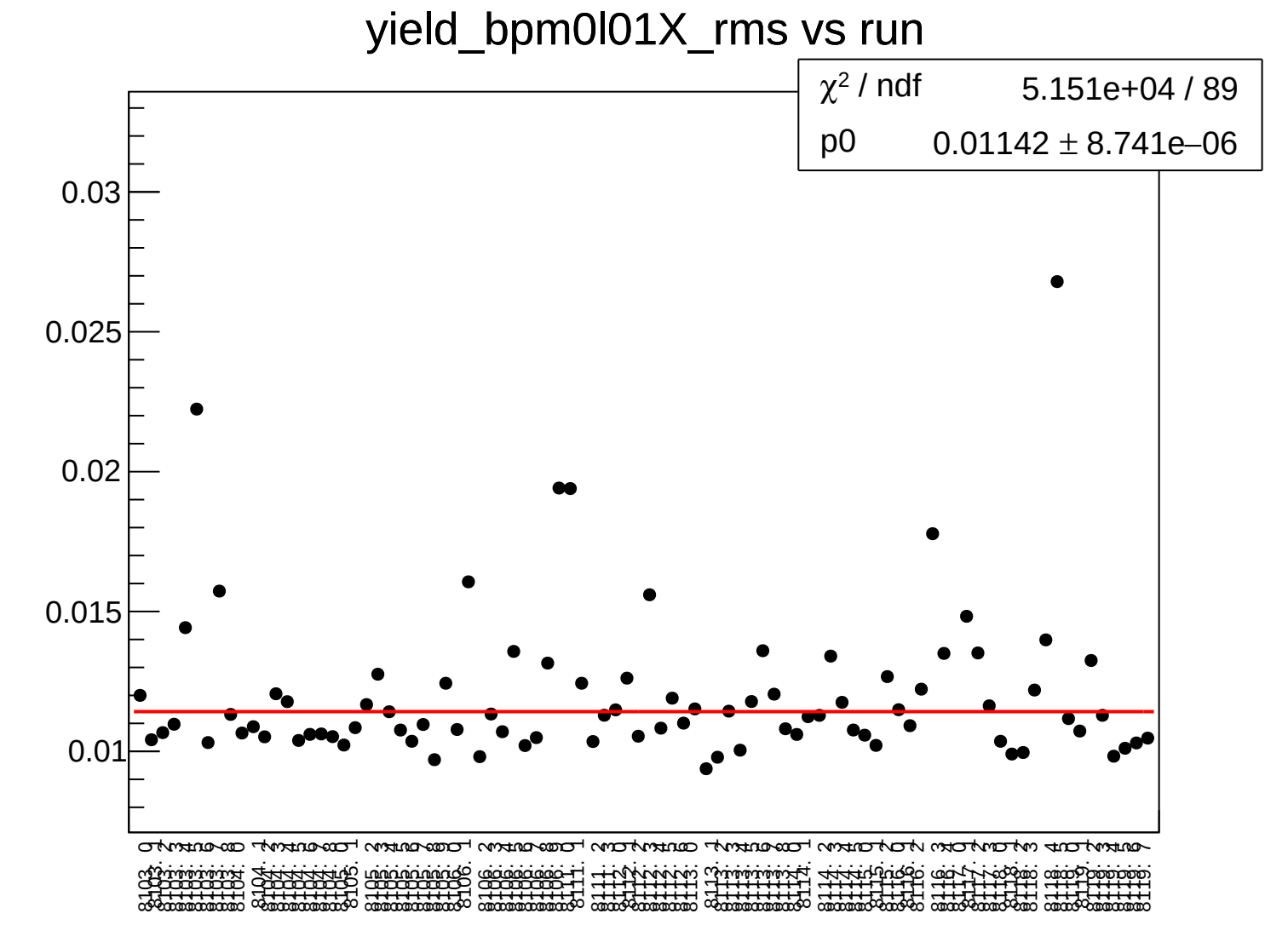

yield_bpm0i01aY_mean vs run
χ² / ndf 7.873e+05 / 89
p0 1.392 ± 6.431e−06
1.405
1.4
1.395
1.39
1.385
1.38
pull
Entries 90
Mean 1151
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

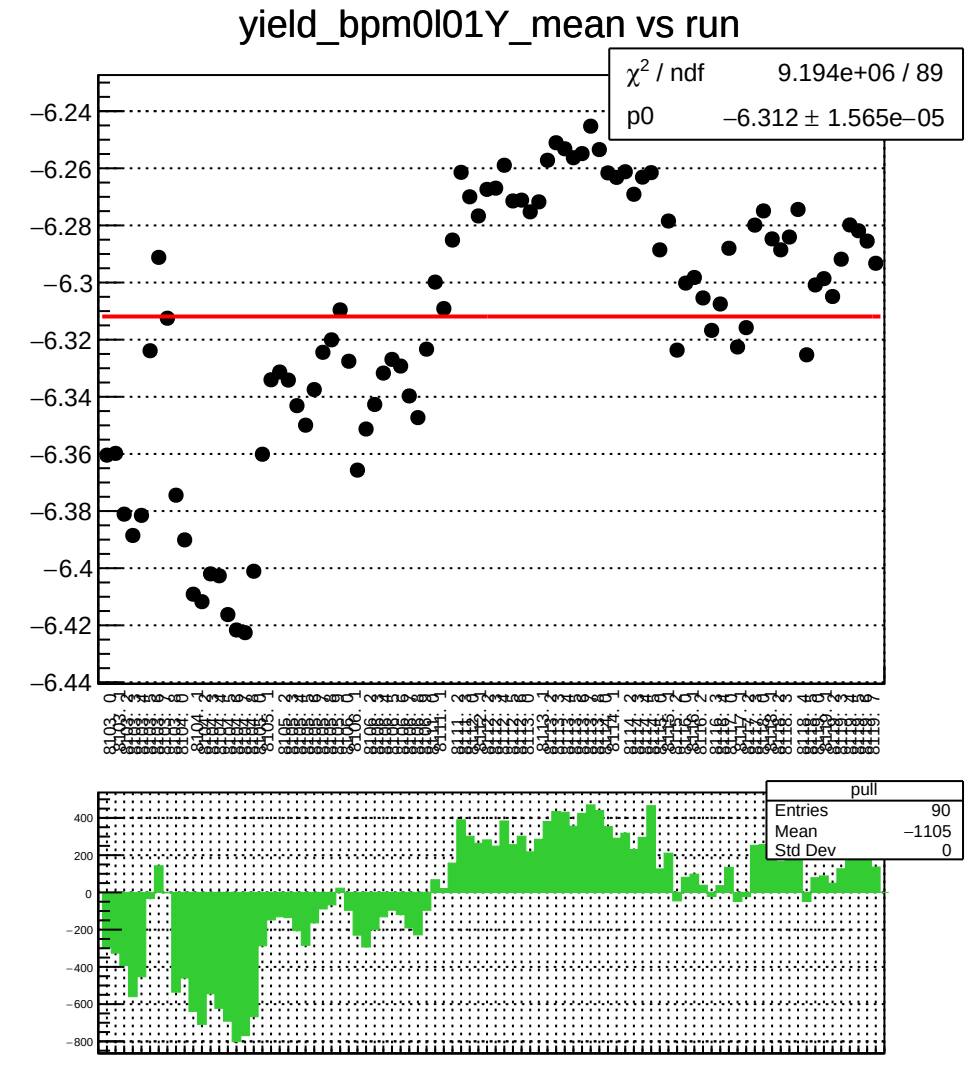

pull1D
Entries 90
Mean 1.364
Std Dev 4.487
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

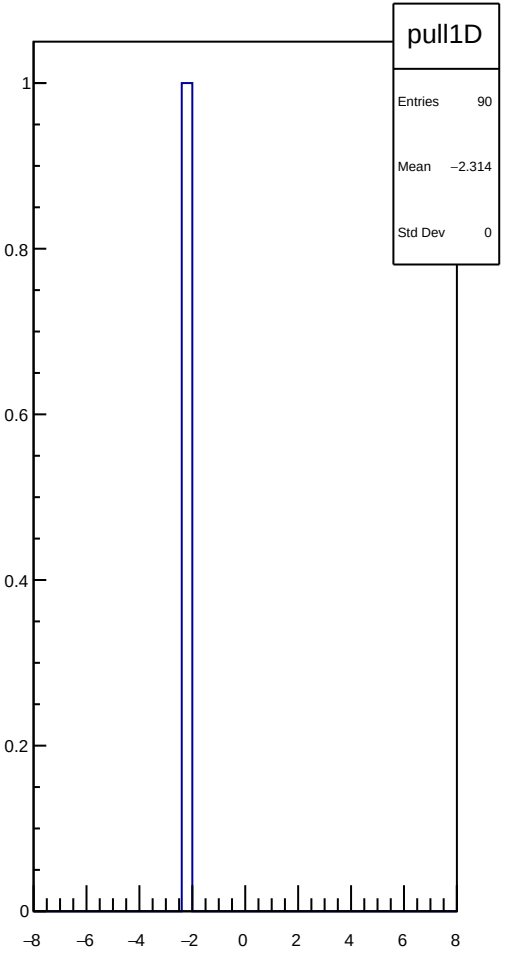

yield_bpm0i01aY_rms vs run
χ² / ndf 2.281e+04 / 89
p0 0.005991 ± 4.547e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

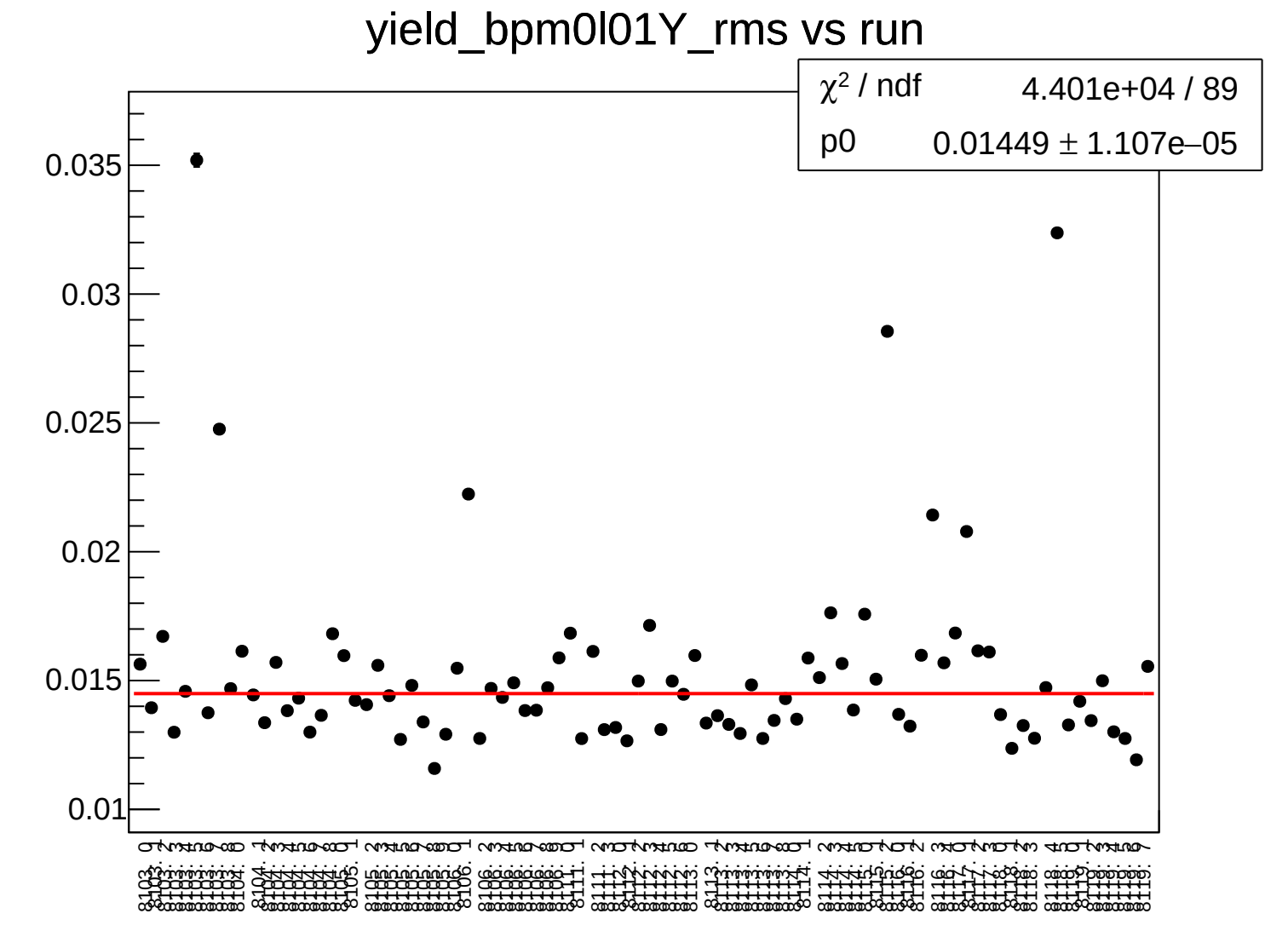

yield_bpm0l01X_mean vs run
χ² / ndf 3.382e+07 / 89
p0 0.7426 ± 1.236e−05
0.85
0.8
0.75
0.7
0.65
0.6
0.55
pull
Entries 90
Mean 1.742e+04
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

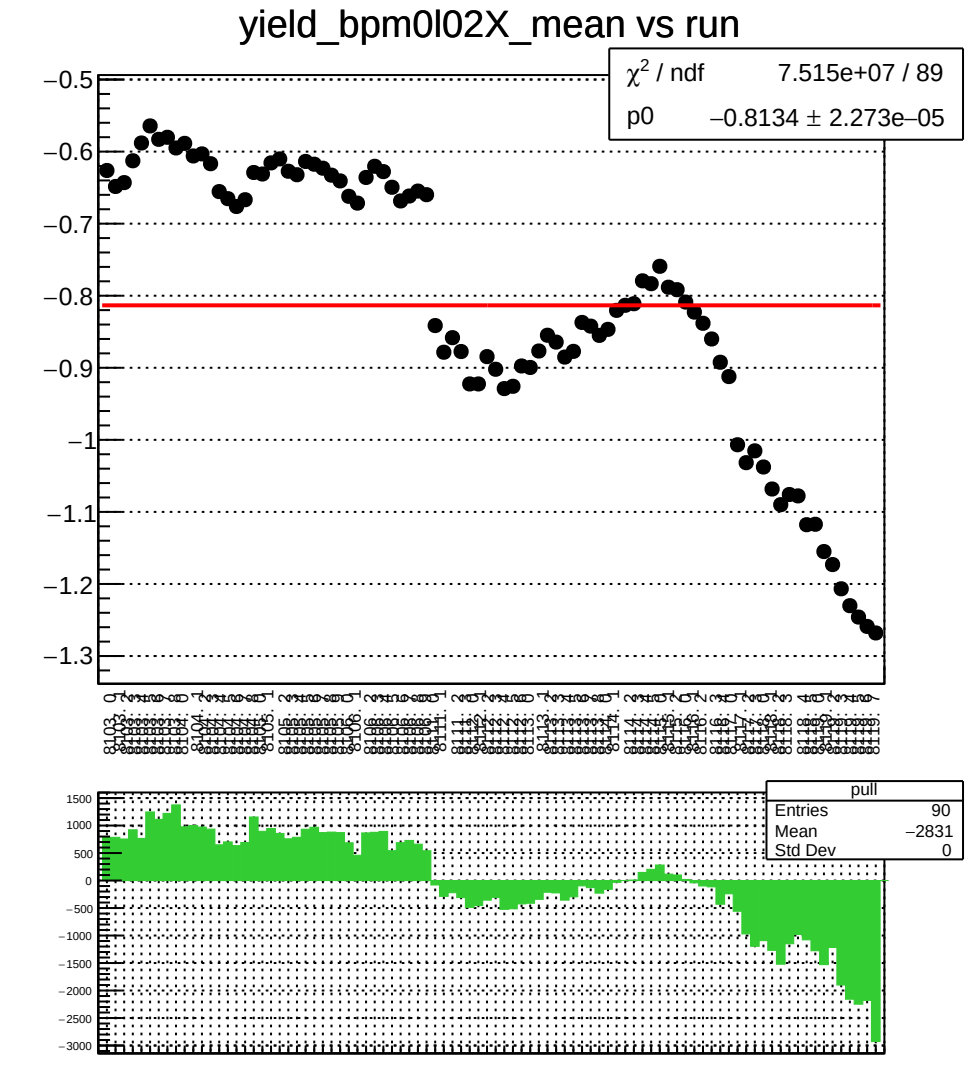

pull1D
Entries 90
Mean 2.69
Std Dev 4.567
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

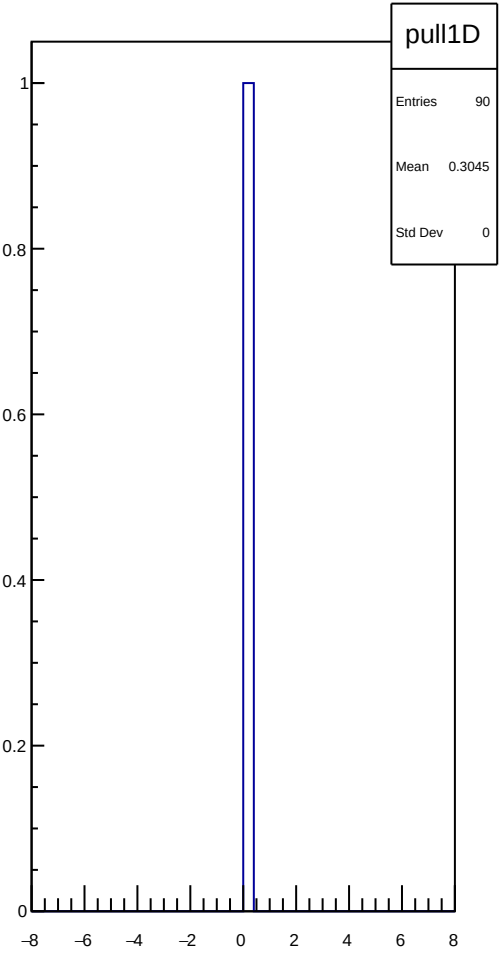

yield_bpm0l01X_rms vs run
χ² / ndf 5.151e+04 / 89
p0 0.01142 ± 8.741e–06
0.03
0.025
0.02
0.015
0.01

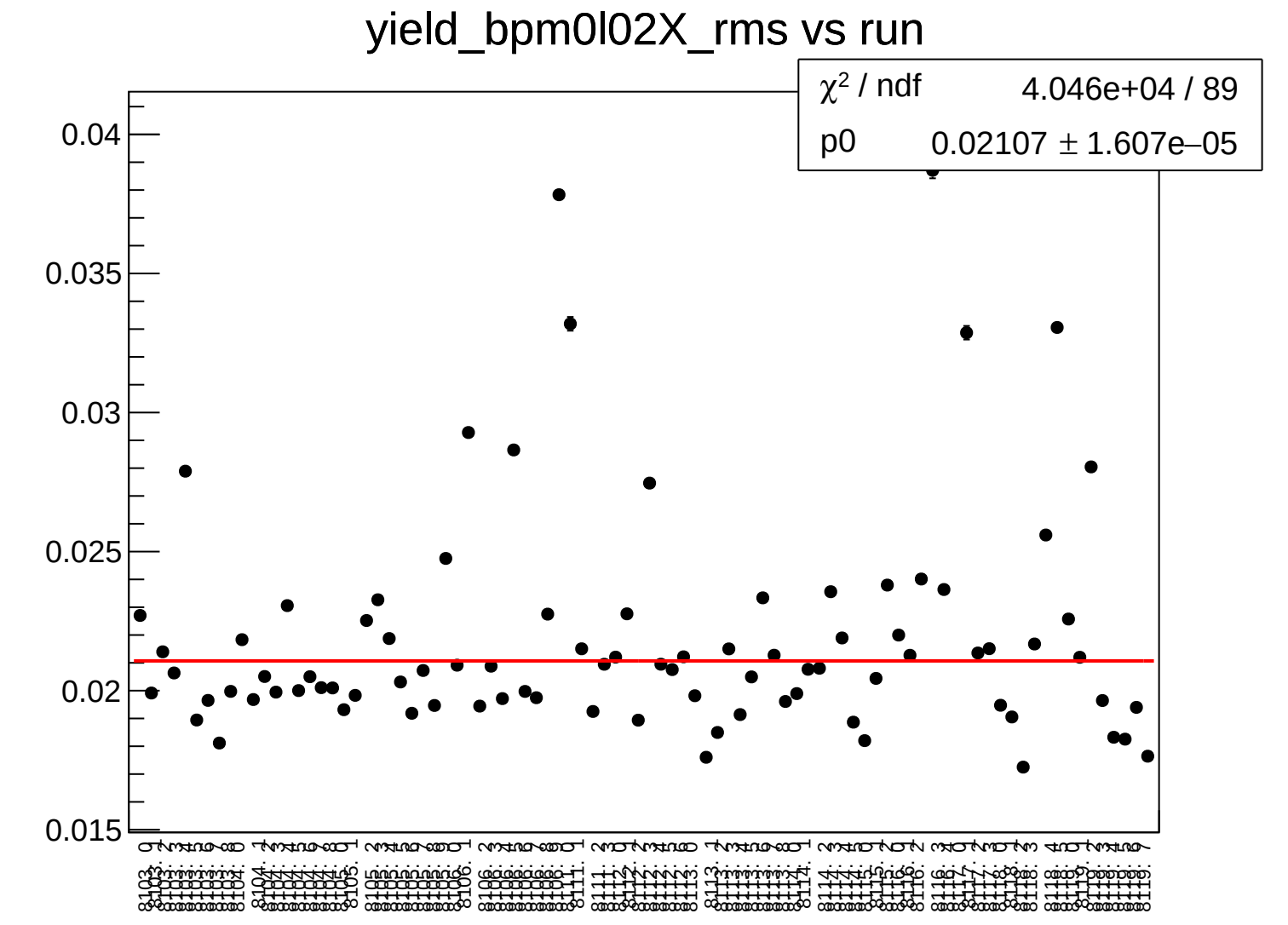

yield_bpm0l01Y_mean vs run
χ² / ndf 9.194e+06 / 89
p0 −6.312 ± 1.565e−05
−6.24
−6.26
−6.28
−6.3
−6.32
−6.34
−6.36
−6.38
−6.4
−6.42
−6.44
pull
Entries 90
Mean −1105
Std Dev 0
400
200
0
−200
−400
−600
−800

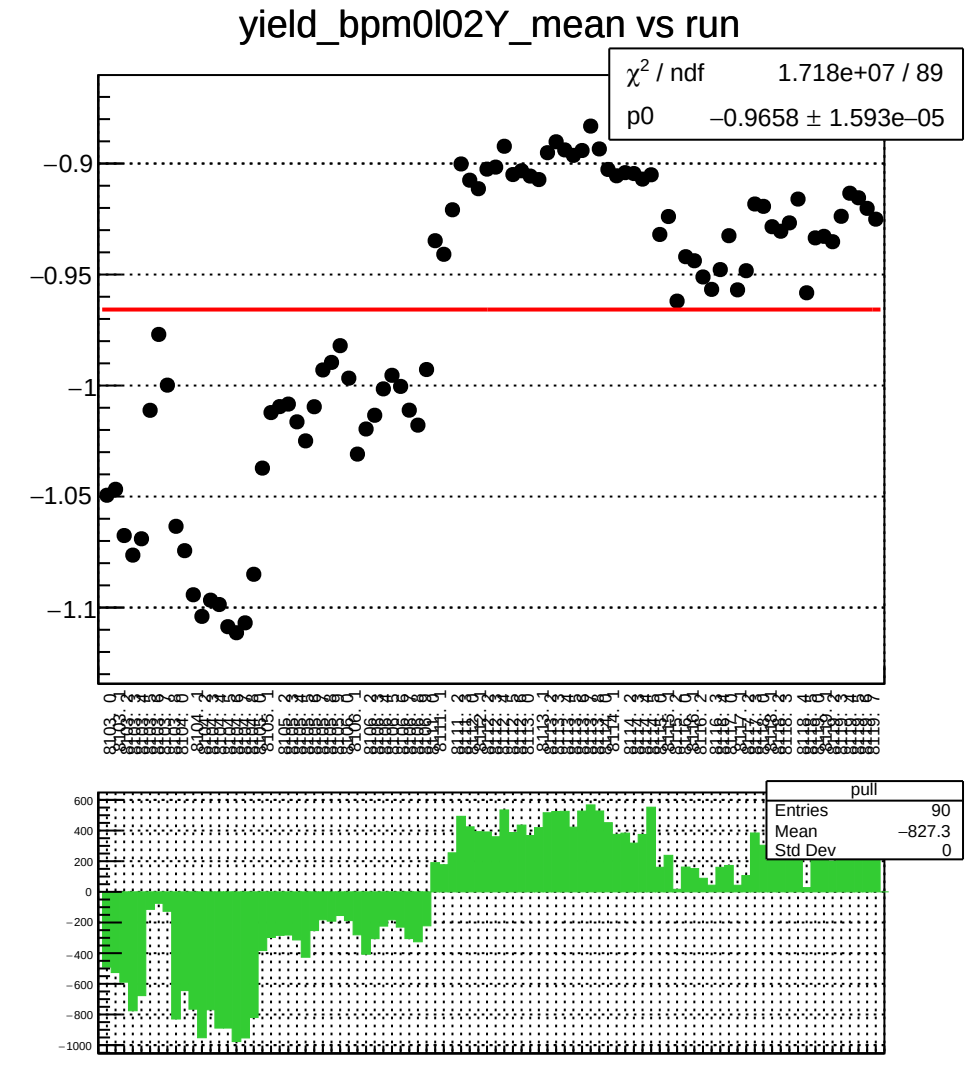

pull1D
Entries 90
Mean −2.314
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

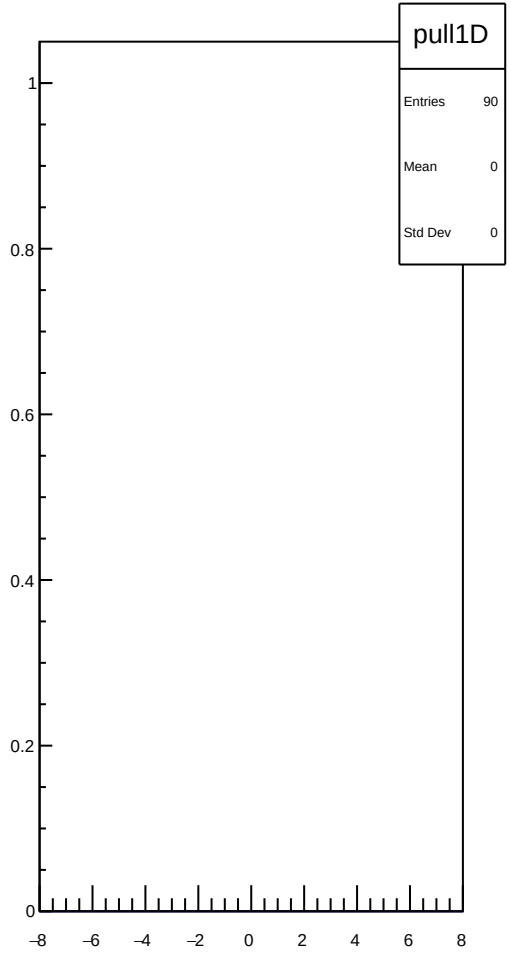

yield_bpm0l01Y_rms vs run
χ² / ndf 4.401e+04 / 89
p0 0.01449 ± 1.107e−05
0.035
0.03
0.025
0.02
0.015
0.01

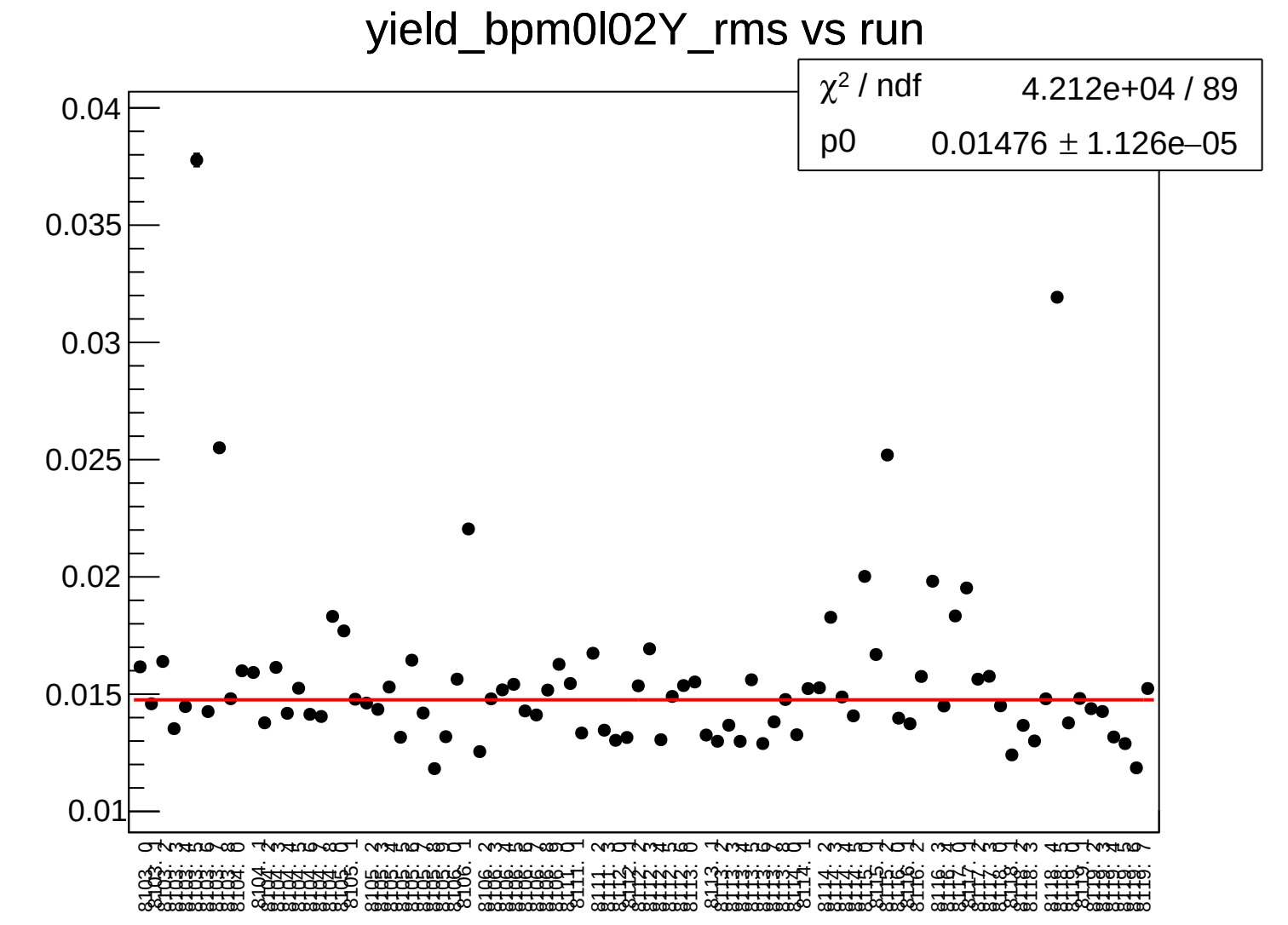

yield_bpm0l02X_mean vs run
χ² / ndf 7.515e+07 / 89
p0 −0.8134 ± 2.273e−05
pull
Entries 90
Mean −2831
Std Dev 0

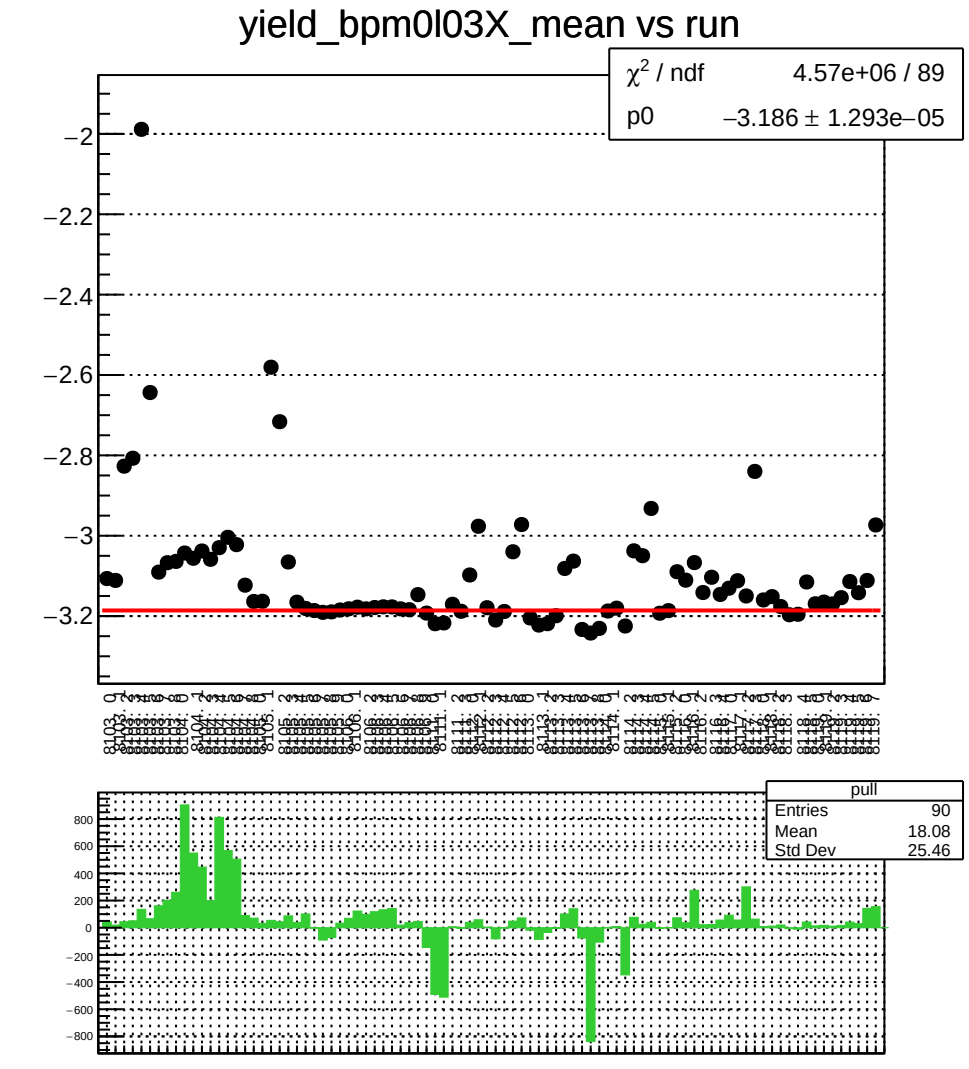

pull1D
Entries 90
Mean 0.3045
Std Dev 0

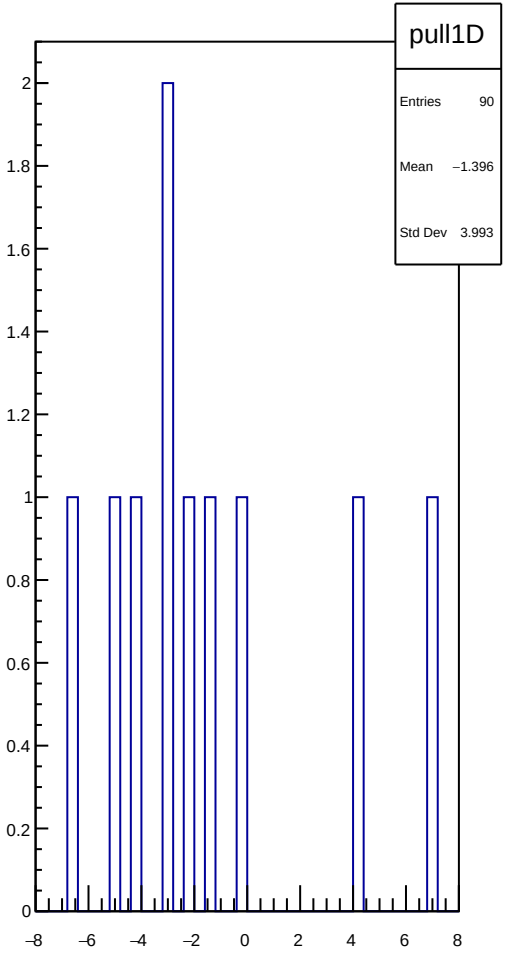

yield_bpm0l02X_rms vs run
χ² / ndf 4.046e+04 / 89
p0 0.02107 ± 1.607e–05
0.04
0.035
0.03
0.025
0.02
0.015

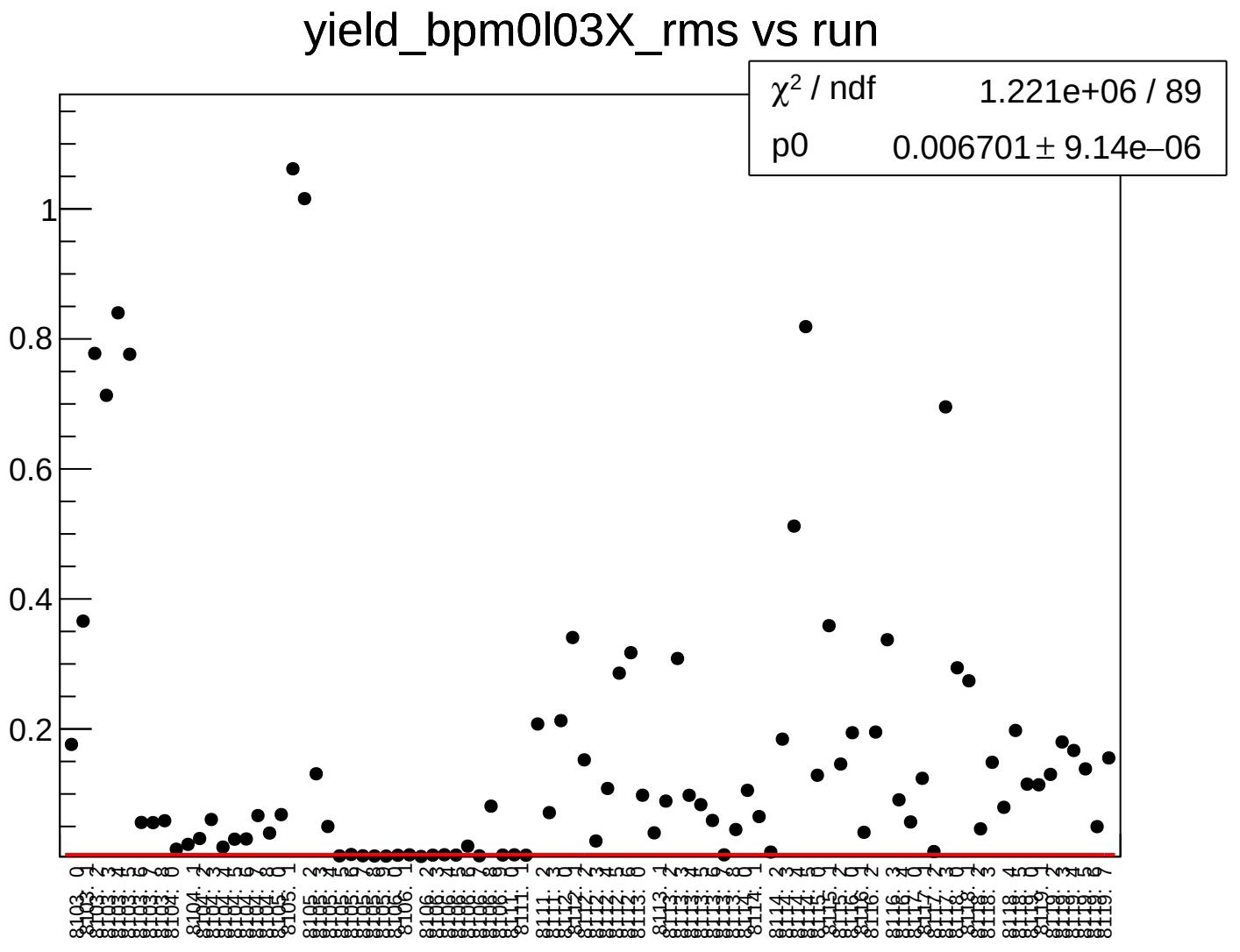

yield_bpm0l02Y_mean vs run
χ² / ndf 1.718e+07 / 89
p0 −0.9658 ± 1.593e−05
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 90
Mean −827.3
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

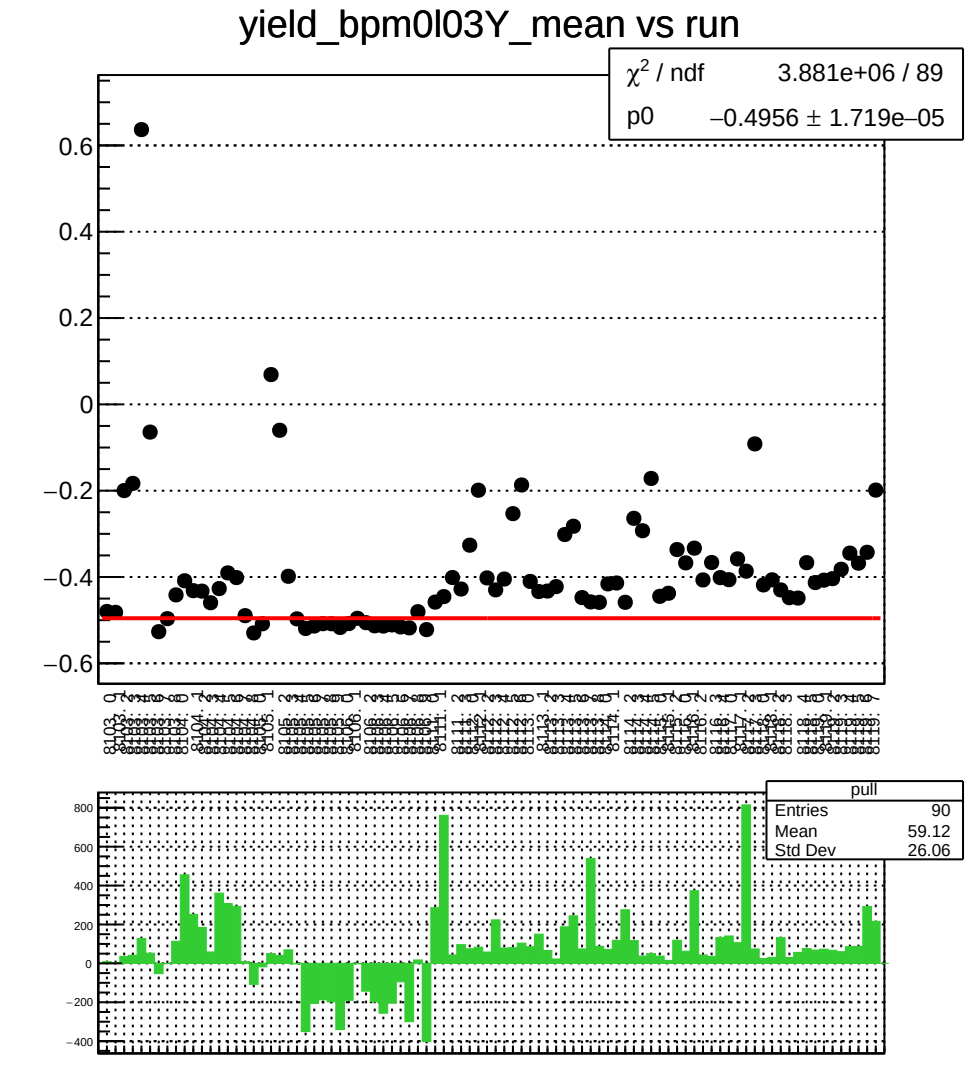

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

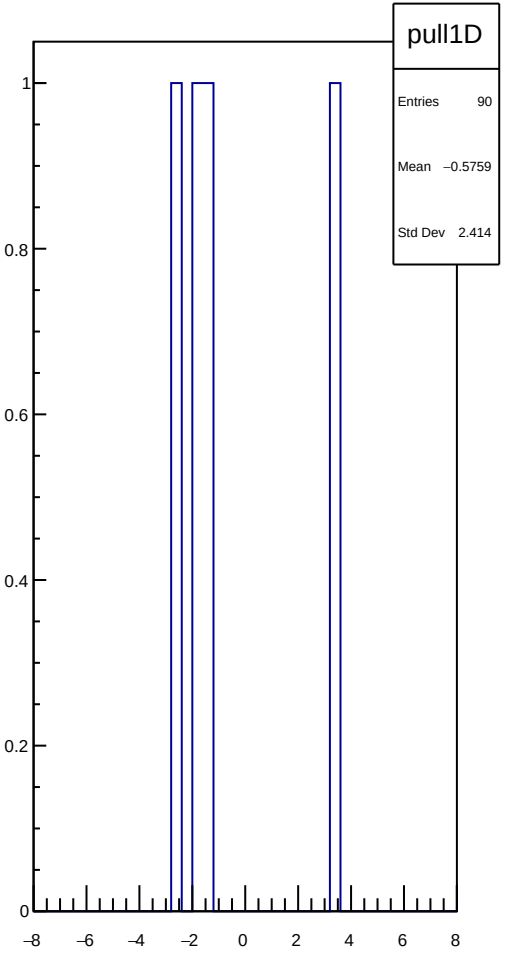

yield_bpm0l02Y_rms vs run
χ² / ndf 4.212e+04 / 89
p0 0.01476 ± 1.126e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

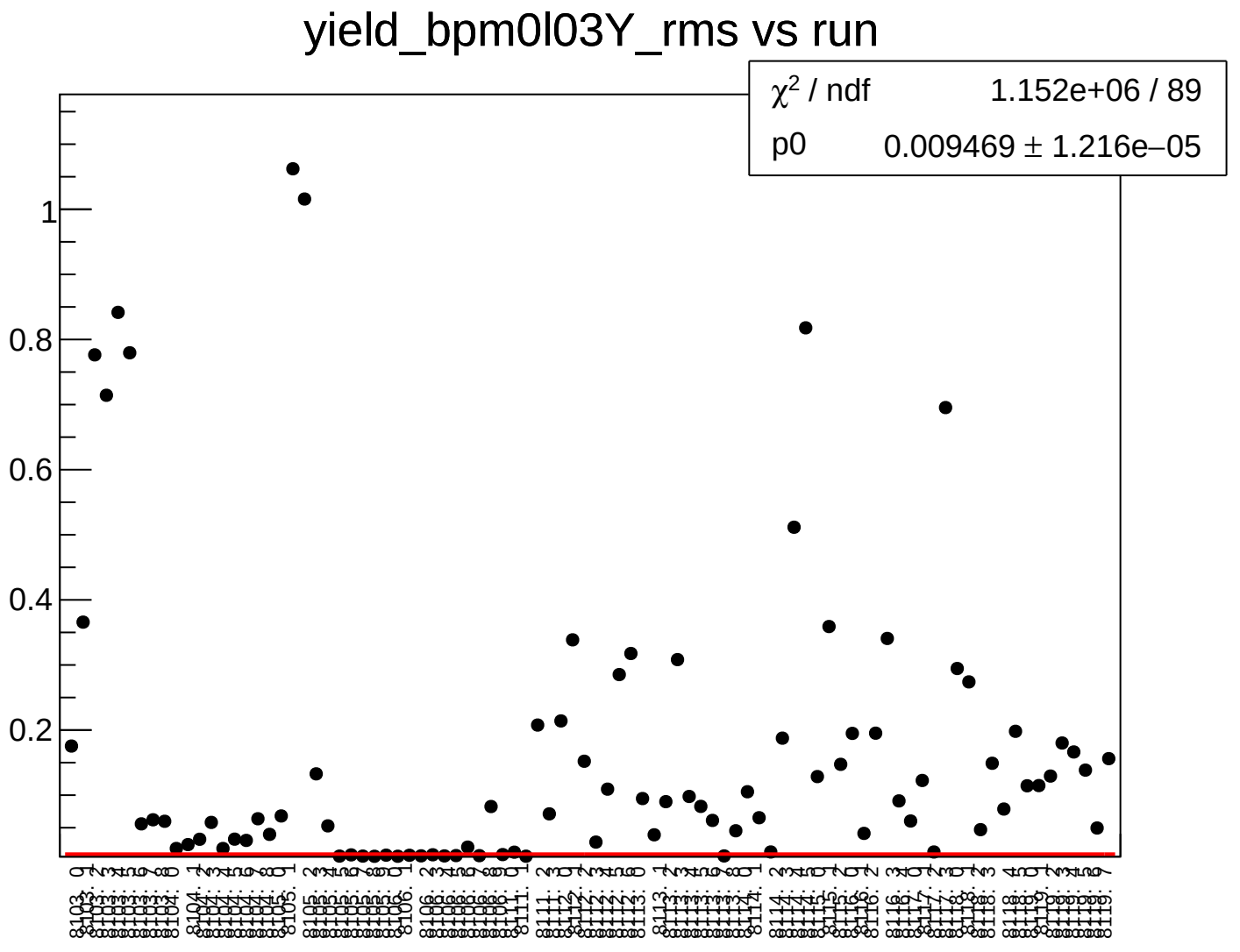

yield_bpm0l03X_mean vs run
χ² / ndf 4.57e+06 / 89
p0 −3.186 ± 1.293e−05
−2
−2.2
−2.4
−2.6
−2.8
−3
−3.2
pull
Entries 90
Mean 18.08
Std Dev 25.46
800
600
400
200
0
−200
−400
−600
−800

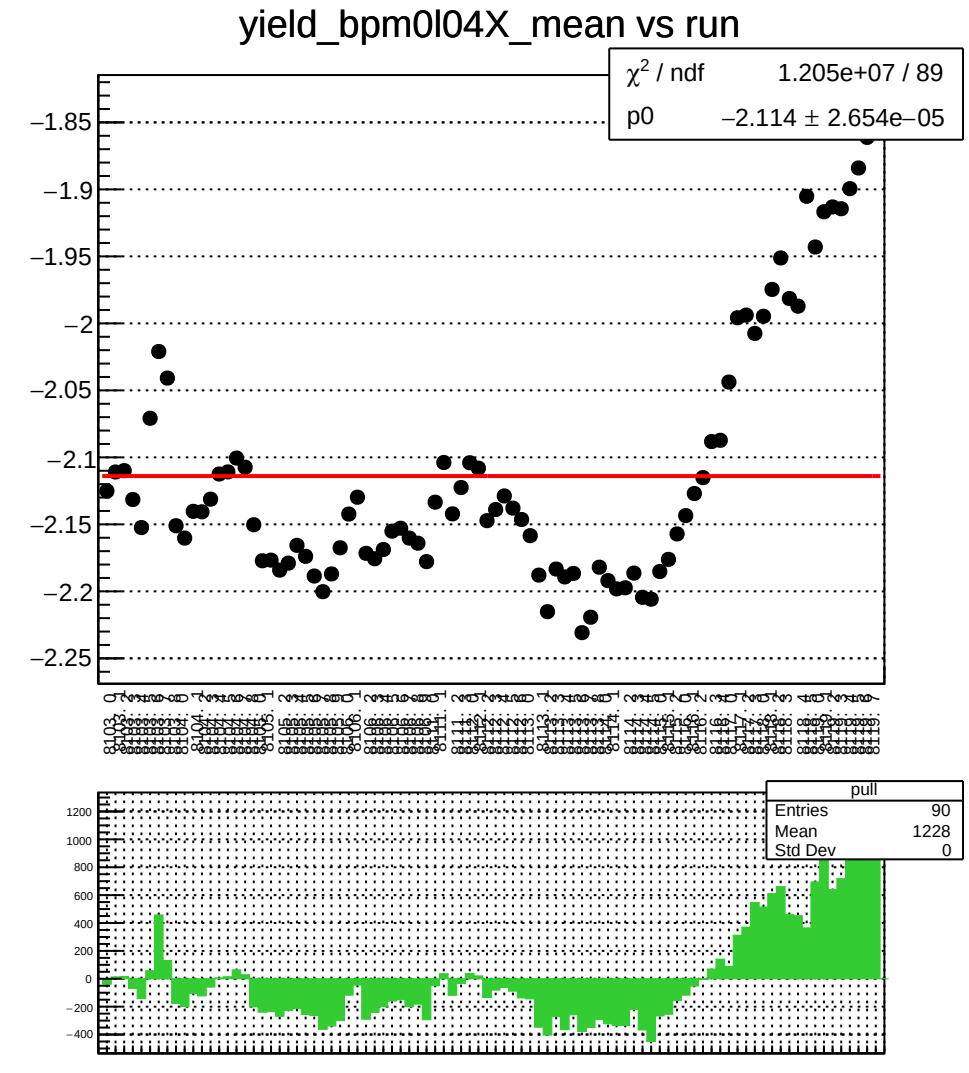

pull1D
Entries 90
Mean −1.396
Std Dev 3.993
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

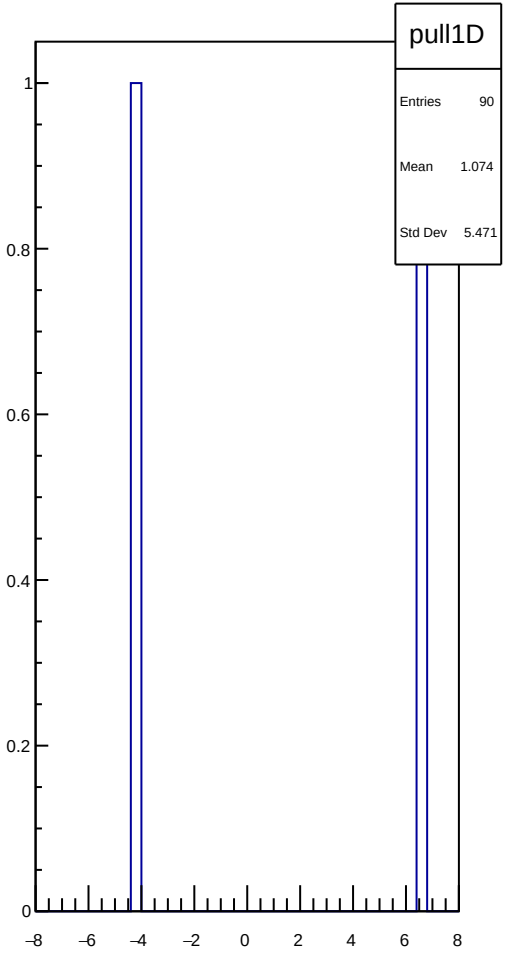

yield_bpm0l03X_rms vs run
χ² / ndf 1.221e+06 / 89
p0 0.006701 ± 9.14e–06
1
0.8
0.6
0.4
0.2

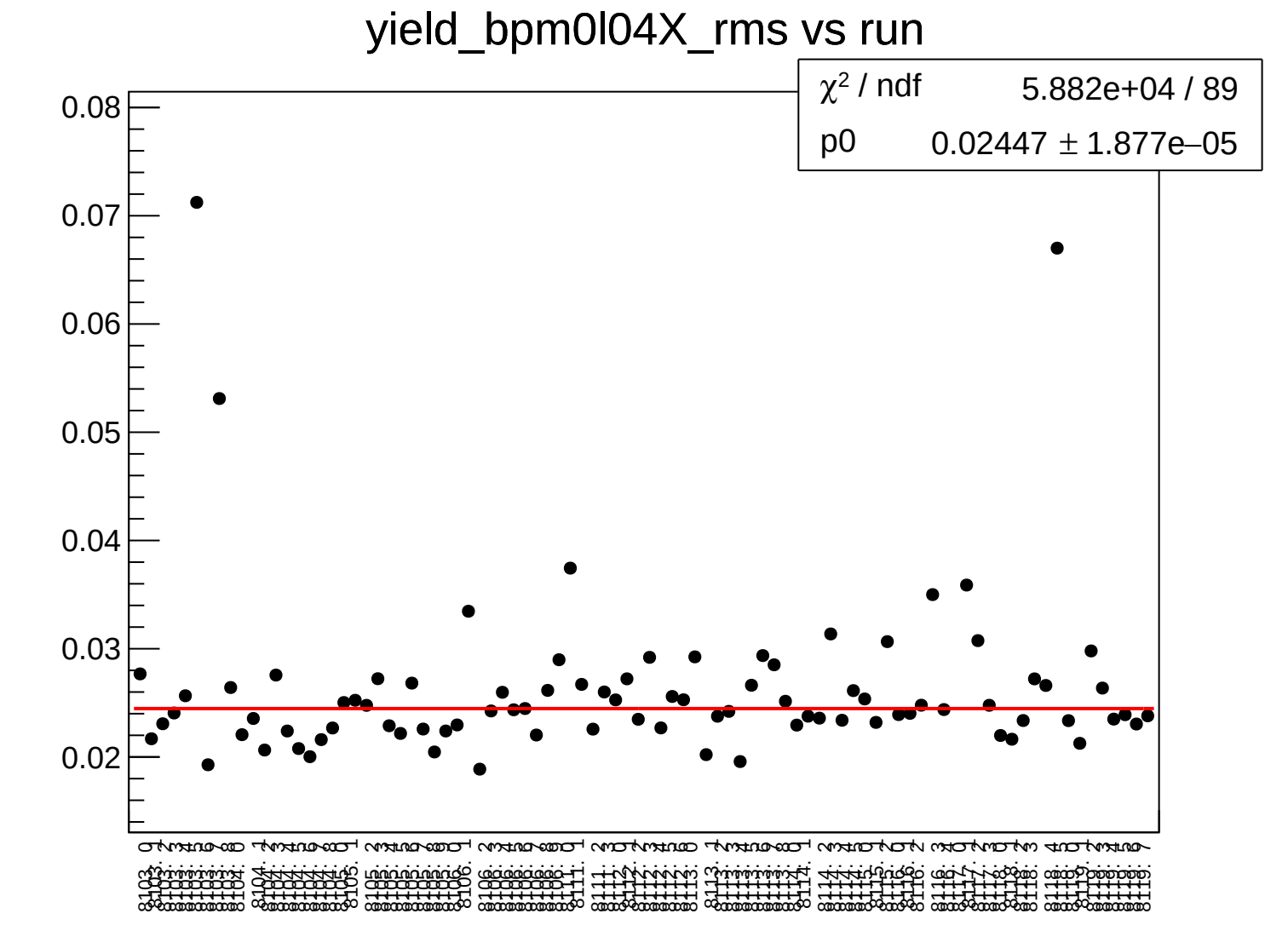

yield_bpm0l03Y_mean vs run
χ² / ndf 3.881e+06 / 89
p0 −0.4956 ± 1.719e−05
pull
Entries 90
Mean 59.12
Std Dev 26.06

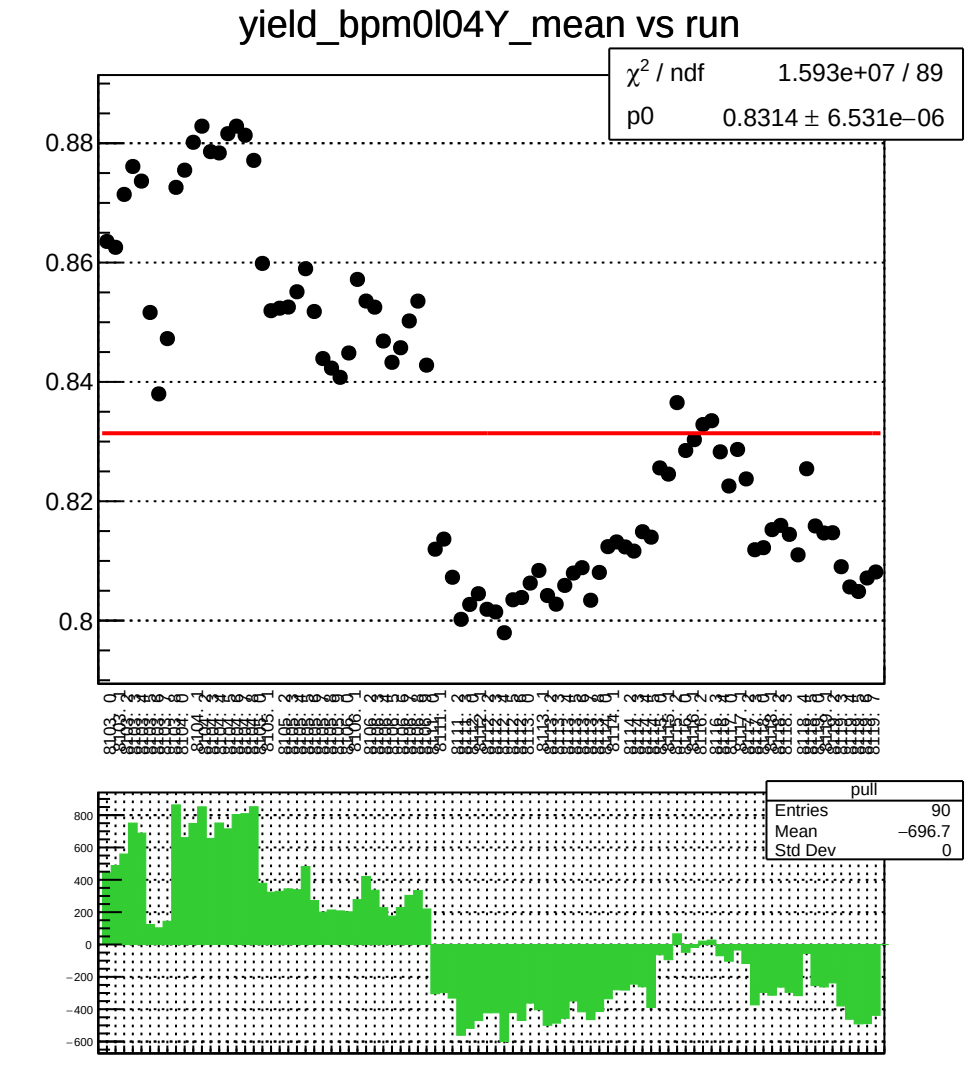

pull1D
Entries 90
Mean −0.5759
Std Dev 2.414

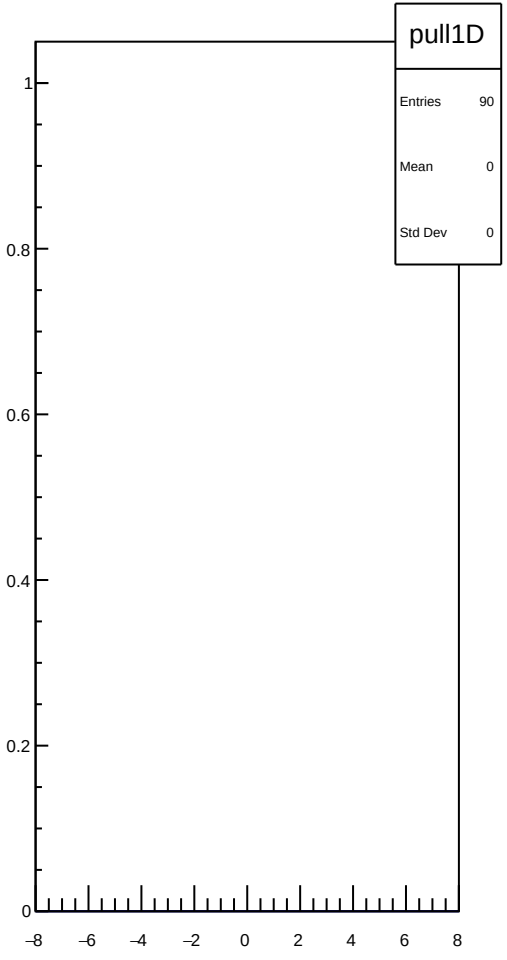

yield_bpm0l03Y_rms vs run
χ² / ndf 1.152e+06 / 89
p0 0.009469 ± 1.216e−05
1
0.8
0.6
0.4
0.2

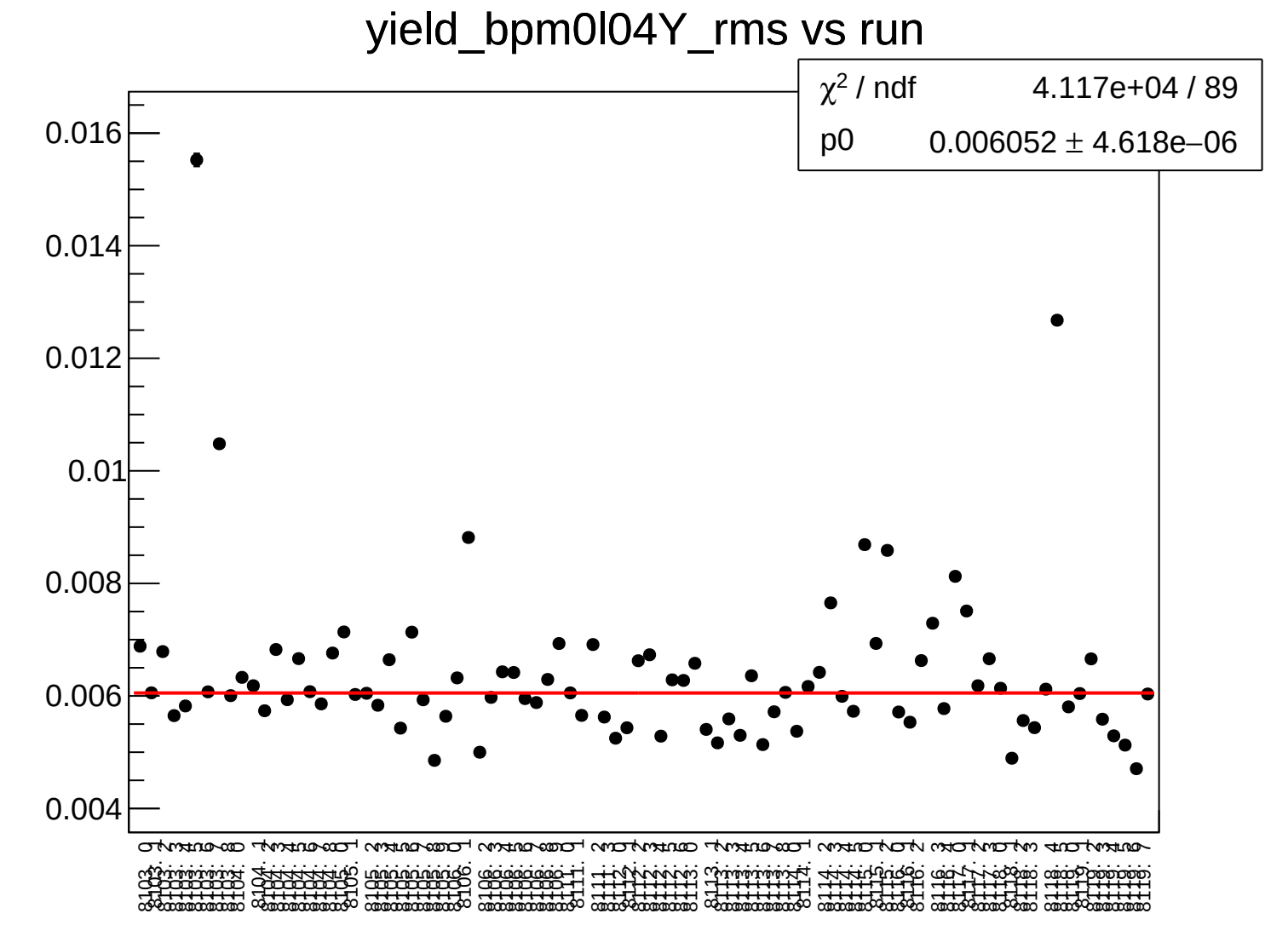

yield_bpm0l04X_mean vs run
χ² / ndf 1.205e+07 / 89
p0 −2.114 ± 2.654e−05
−1.85
−1.9
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
pull
Entries 90
Mean 1228
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

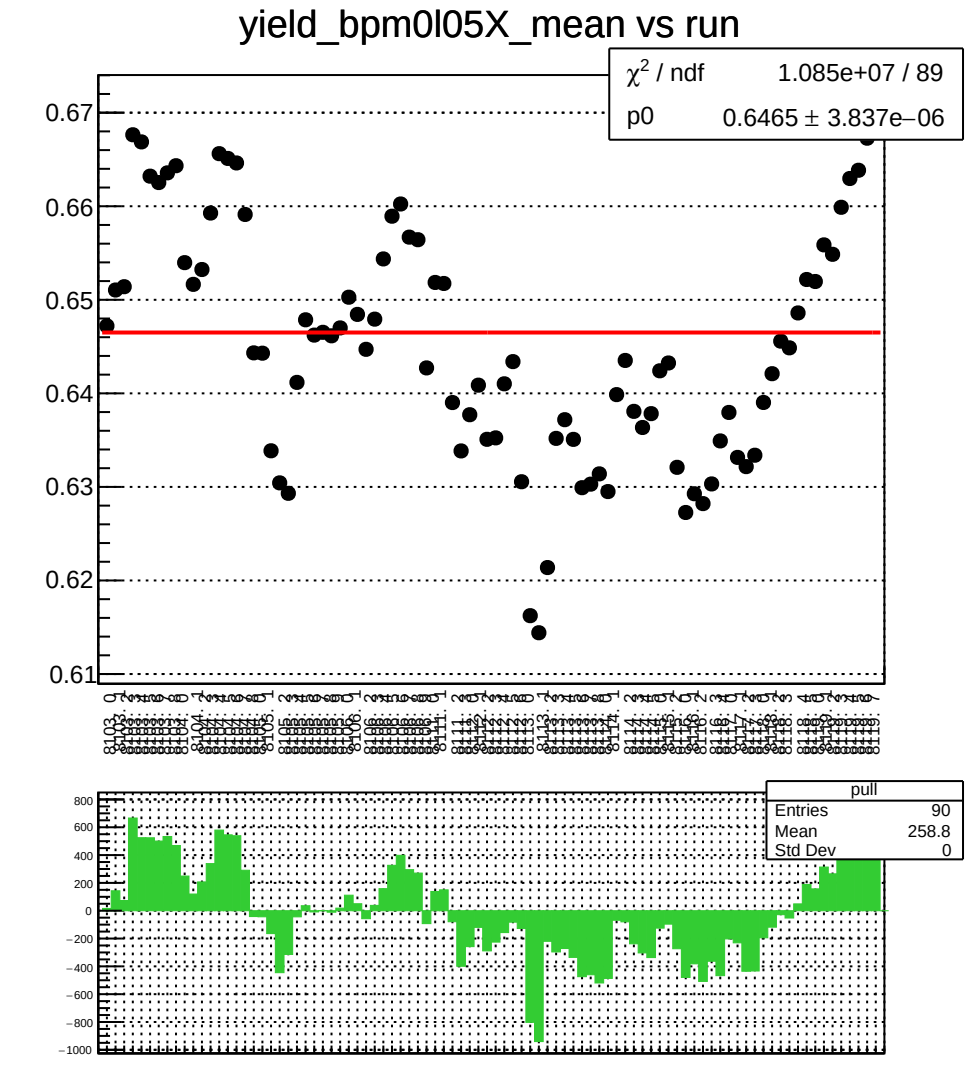

pull1D
Entries 90
Mean 1.074
Std Dev 5.471
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

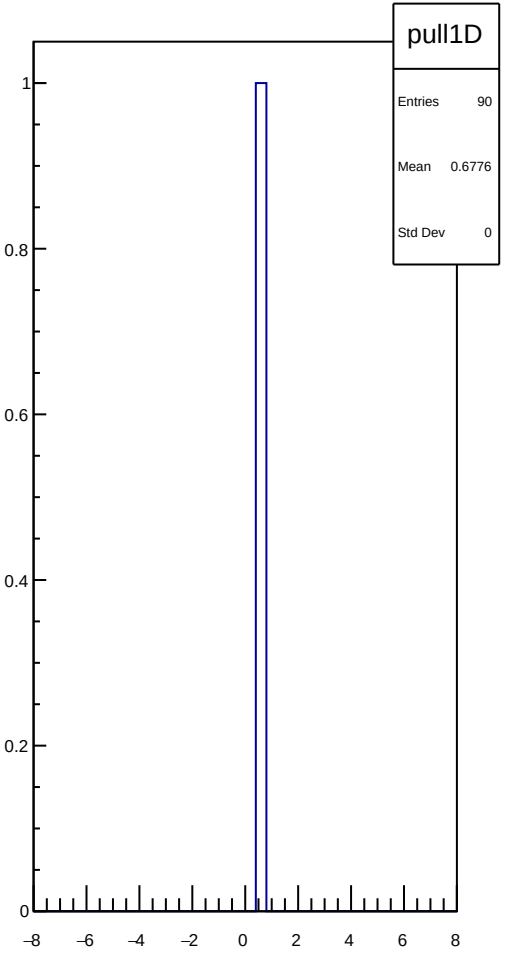

yield_bpm0l04X_rms vs run
χ² / ndf 5.882e+04 / 89
p0 0.02447 ± 1.877e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02

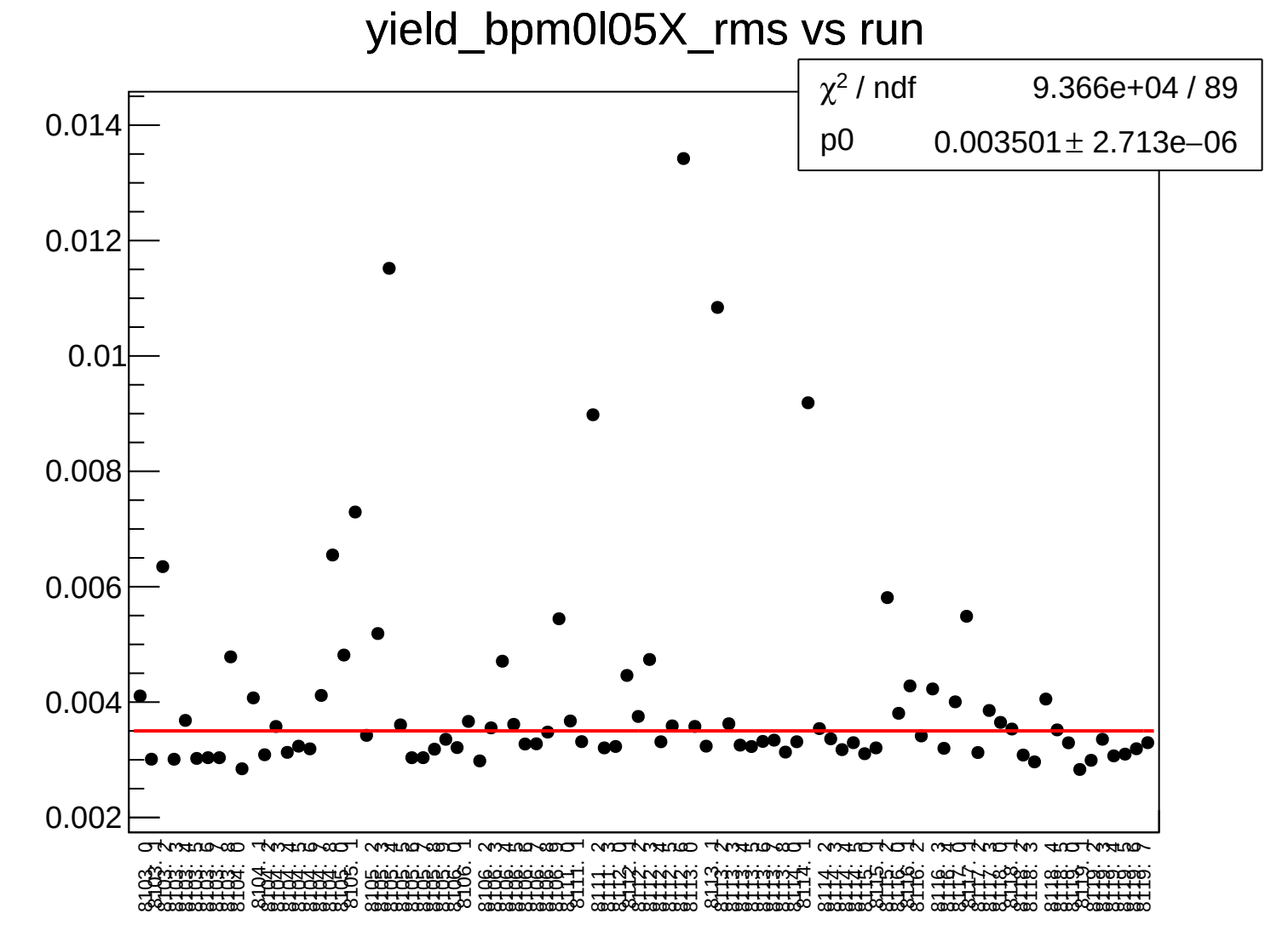

yield_bpm0l04Y_mean vs run
χ² / ndf 1.593e+07 / 89
p0 0.8314 ± 6.531e−06
0.88
0.86
0.84
0.82
0.8
pull
Entries 90
Mean −696.7
Std Dev 0
800
600
400
200
0
−200
−400
−600

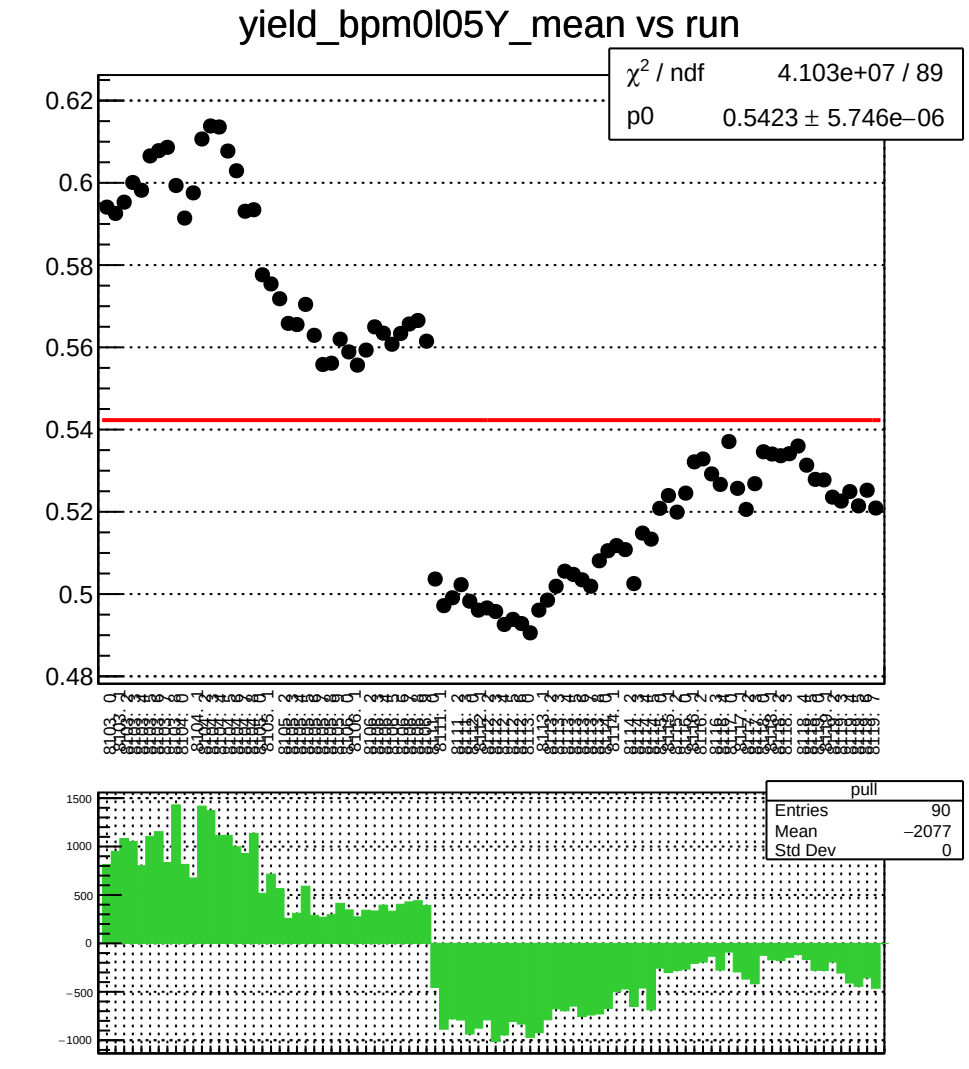

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

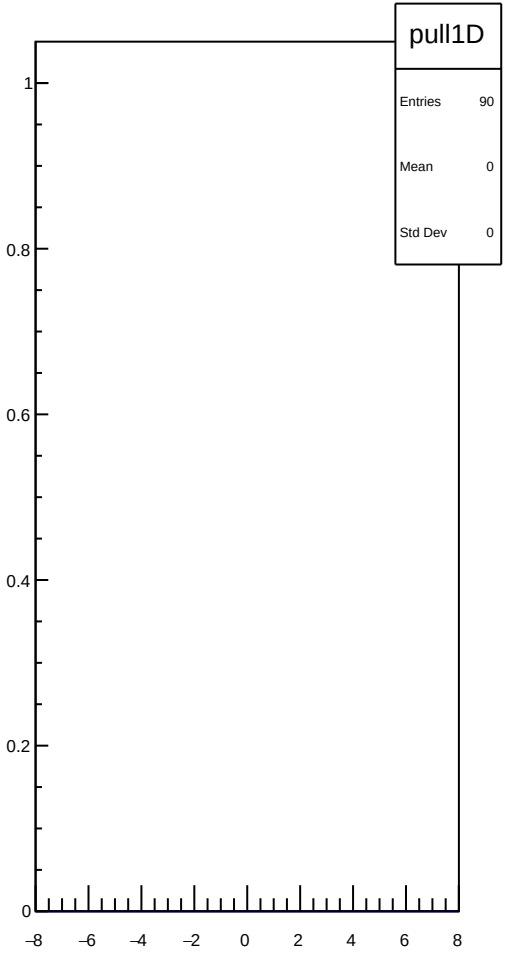

yield_bpm0l04Y_rms vs run
χ² / ndf 4.117e+04 / 89
p0 0.006052 ± 4.618e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

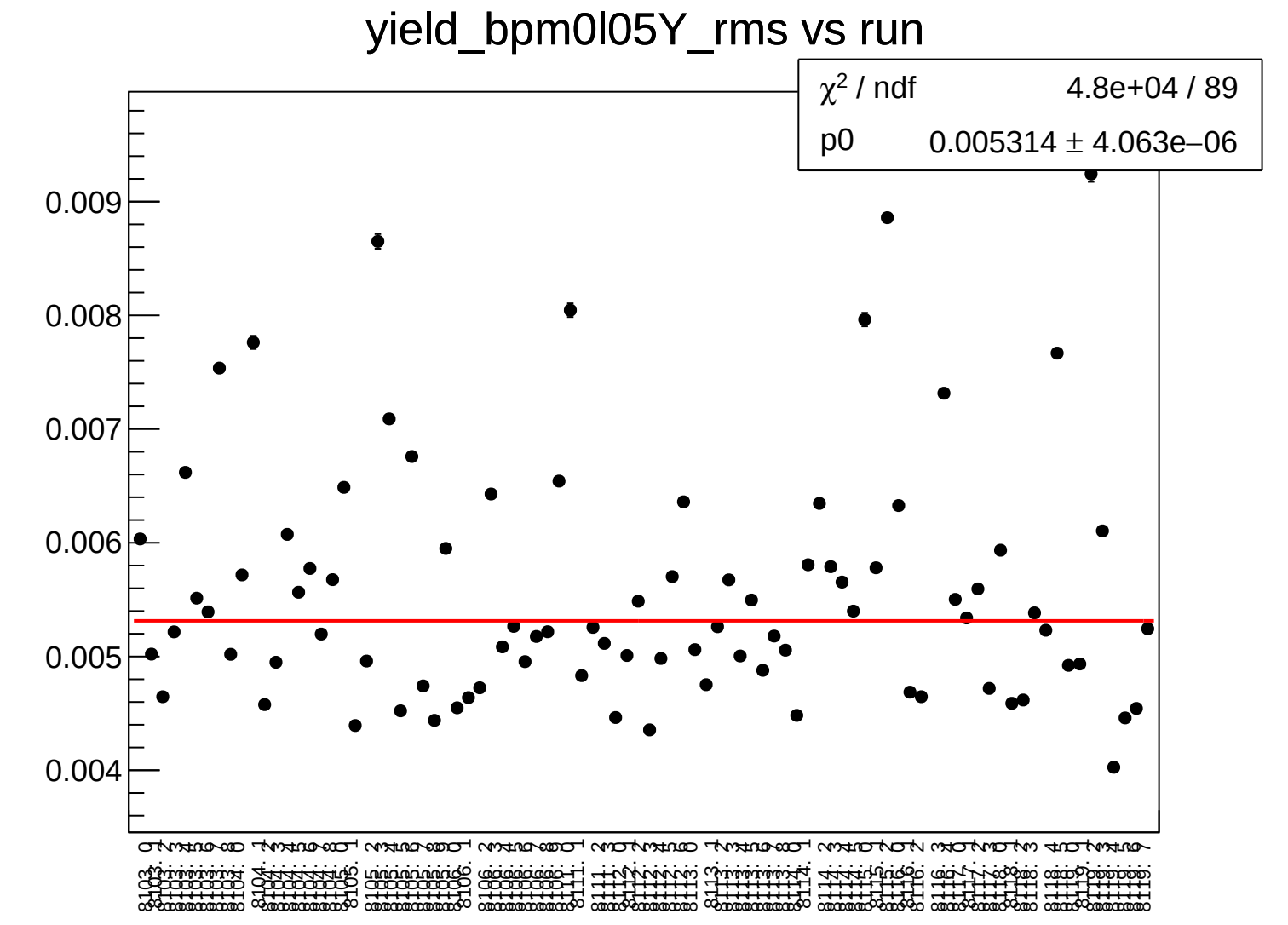

yield_bpm0l05X_mean vs run
χ² / ndf 1.085e+07 / 89
p0 0.6465 ± 3.837e−06
0.67
0.66
0.65
0.64
0.63
0.62
0.61
pull
Entries 90
Mean 258.8
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

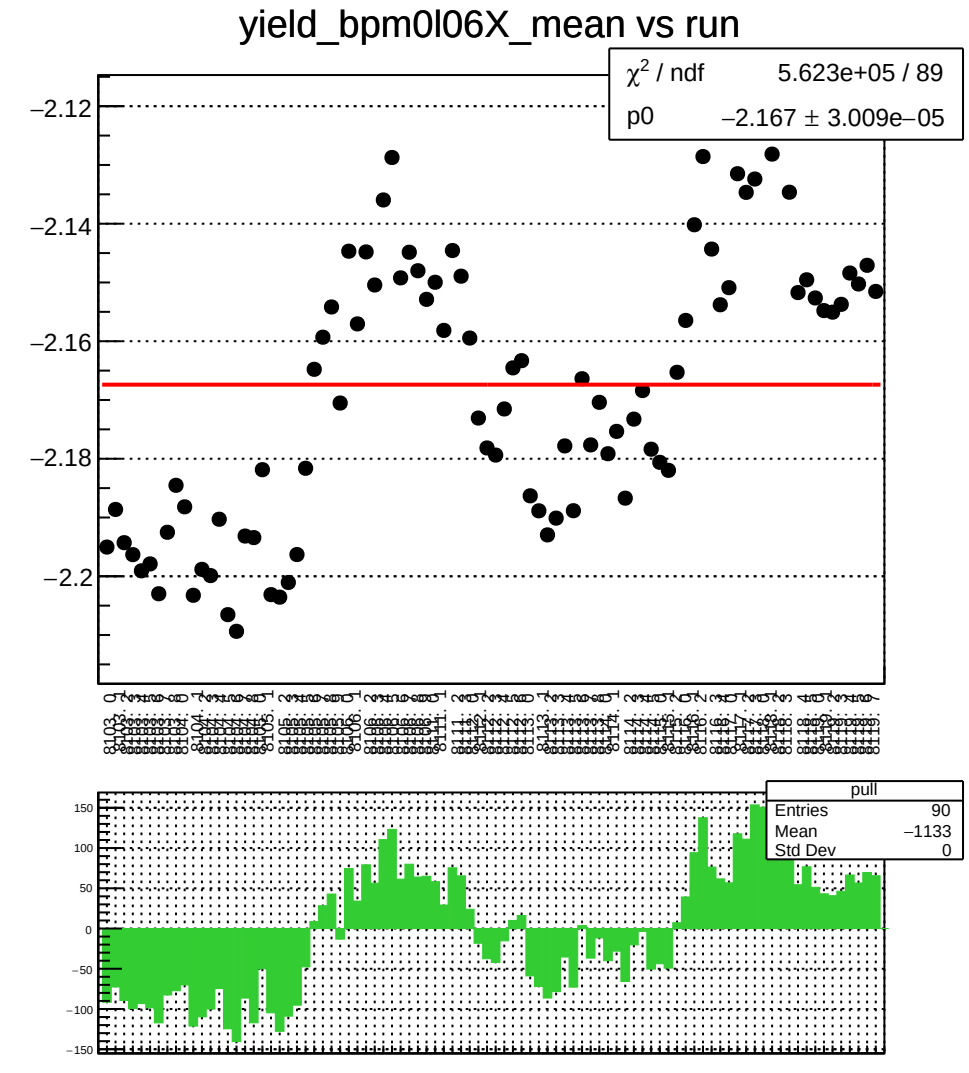

pull1D
Entries 90
Mean 0.6776
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

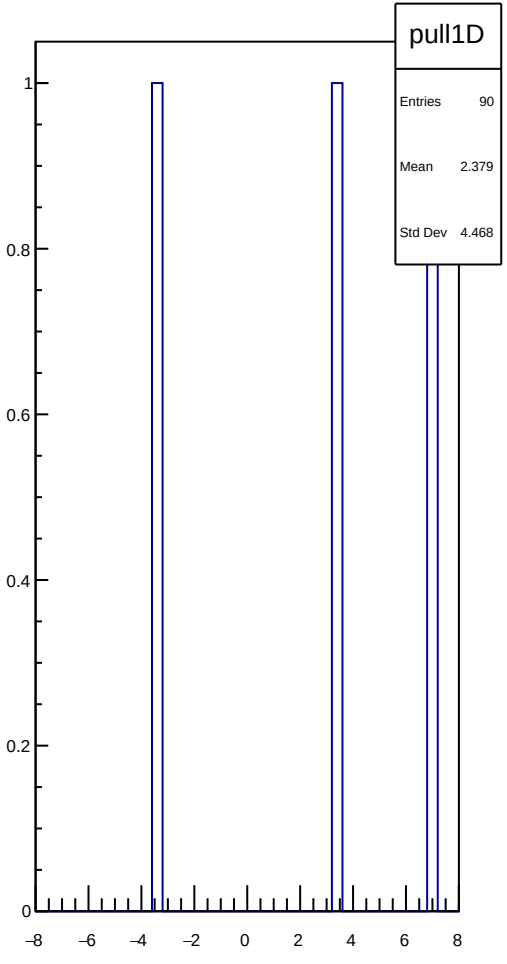

yield_bpm0l05X_rms vs run
χ² / ndf 9.366e+04 / 89
p0 0.003501 ± 2.713e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

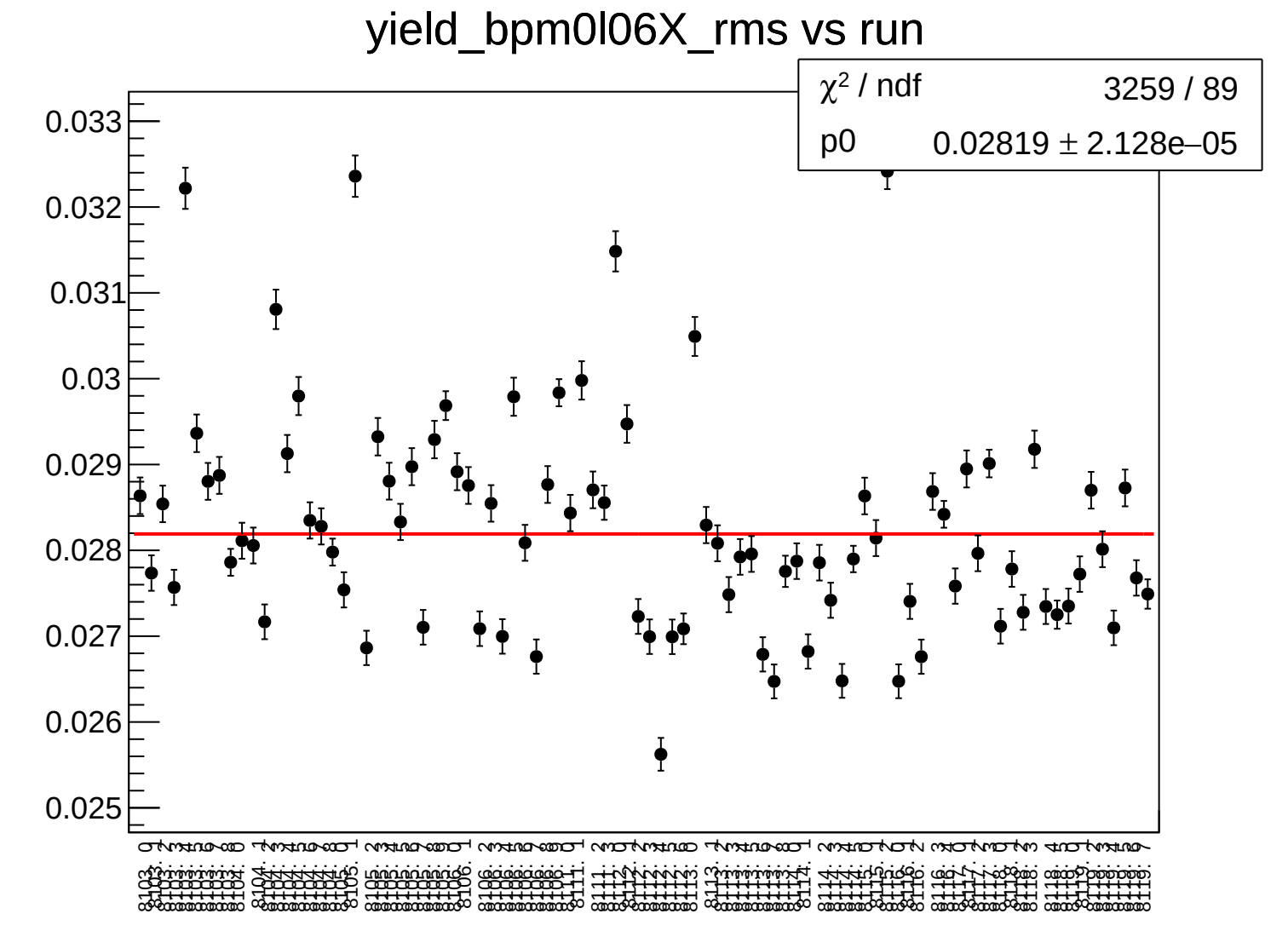

yield_bpm0l05Y_mean vs run
χ² / ndf 4.103e+07 / 89
p0 0.5423 ± 5.746e−06
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
pull
Entries 90
Mean −2077
Std Dev 0
1500
1000
500
0
−500
−1000

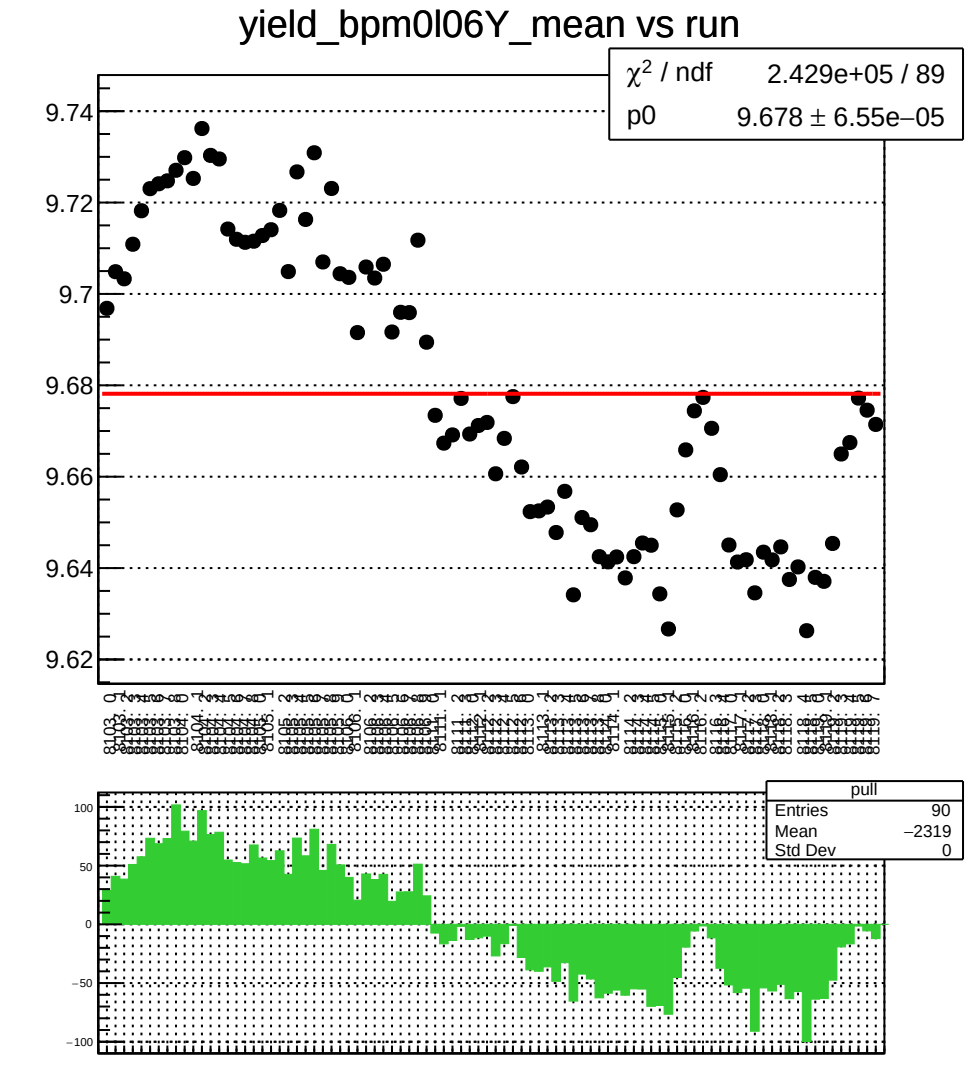

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

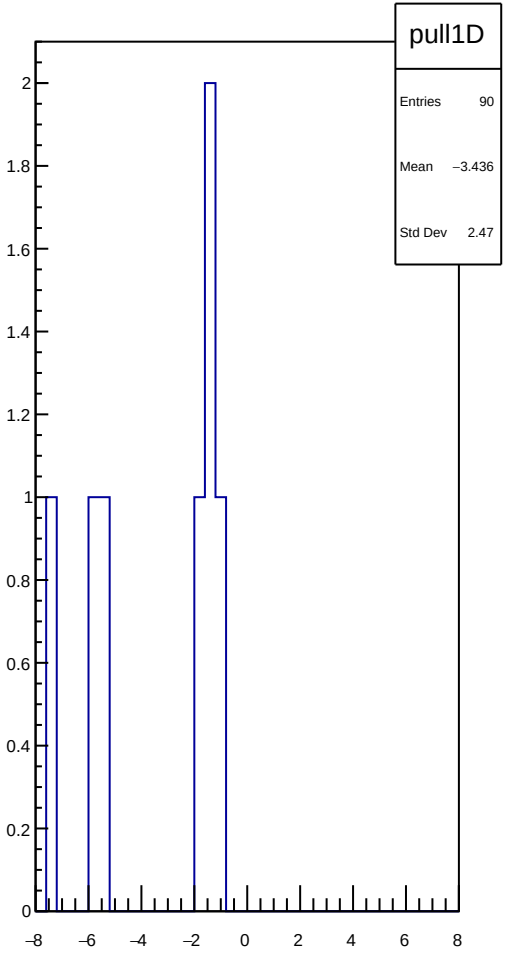

yield_bpm0l05Y_rms vs run
χ² / ndf 4.8e+04 / 89
p0 0.005314 ± 4.063e−06
0.009
0.008
0.007
0.006
0.005
0.004

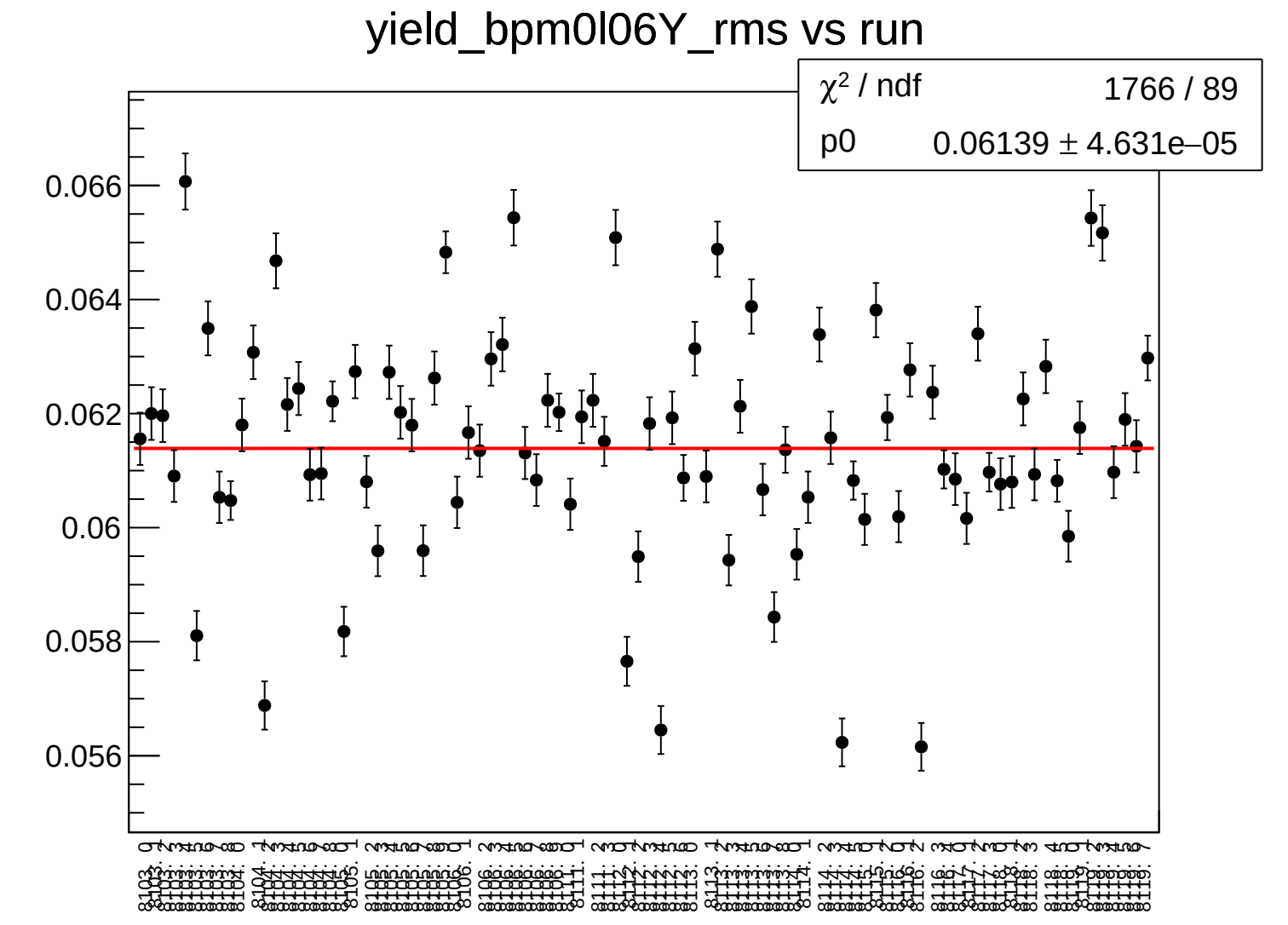

yield_bpm0l06X_mean vs run
χ² / ndf 5.623e+05 / 89
p0 −2.167 ± 3.009e−05
−2.12
−2.14
−2.16
−2.18
−2.2
pull
Entries 90
Mean −1133
Std Dev 0
150
100
50
0
−50
−100
−150

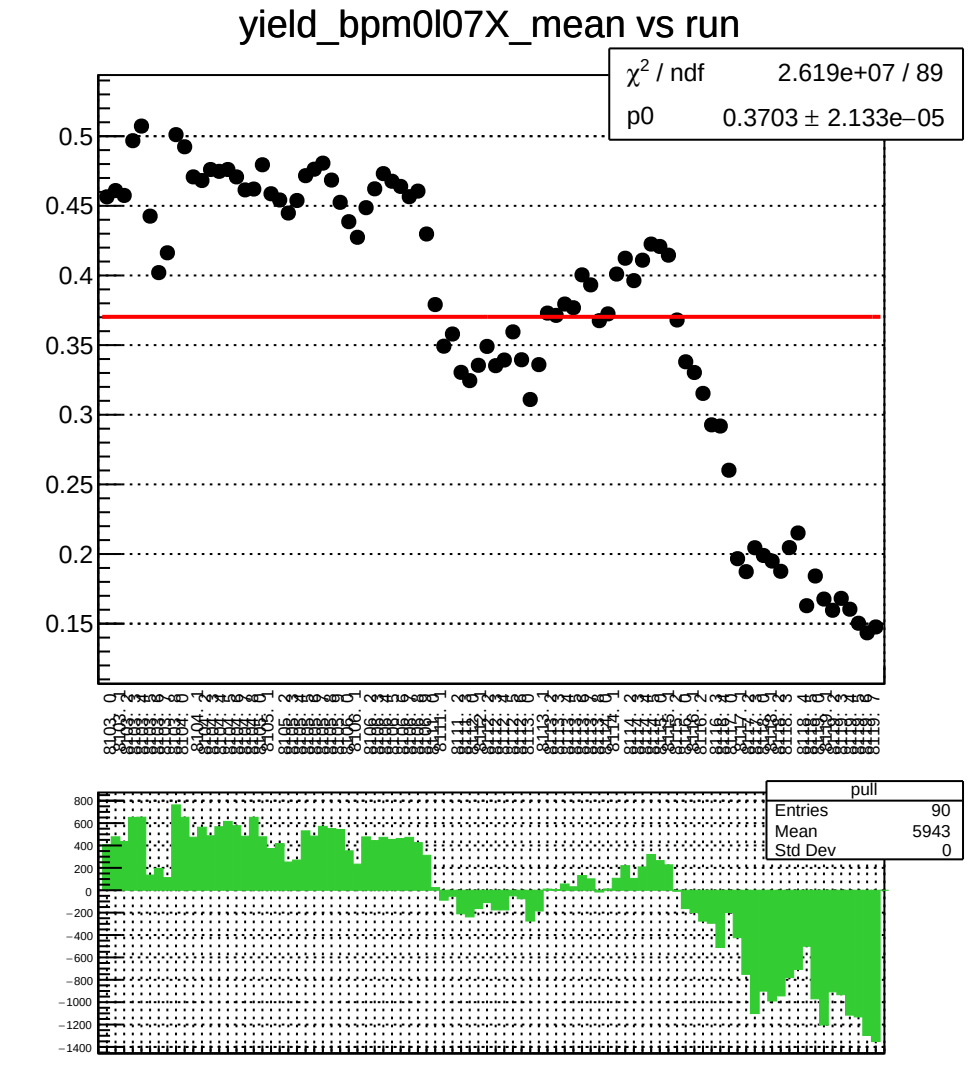

pull1D
Entries 90
Mean 2.379
Std Dev 4.468
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

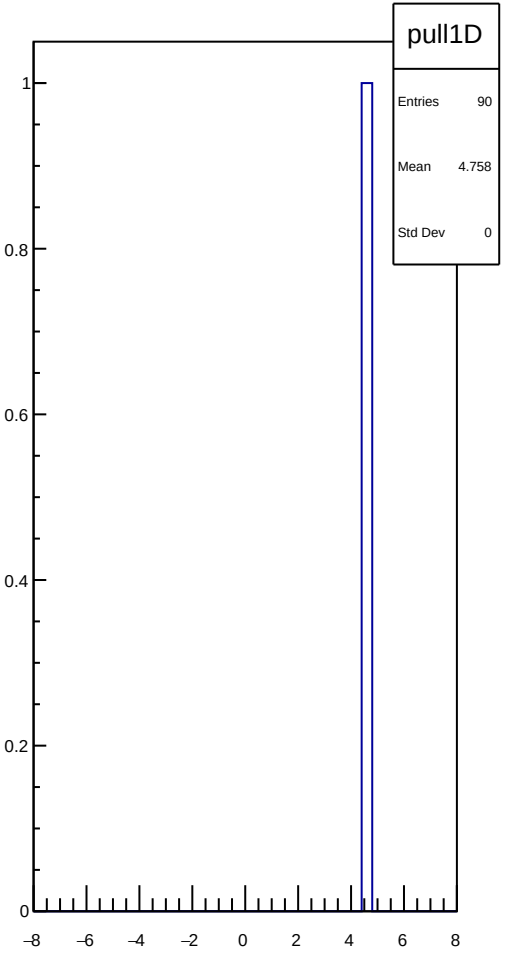

yield_bpm0l06X_rms vs run
χ² / ndf 3259 / 89
p0 0.02819 ± 2.128e–05
0.033
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025

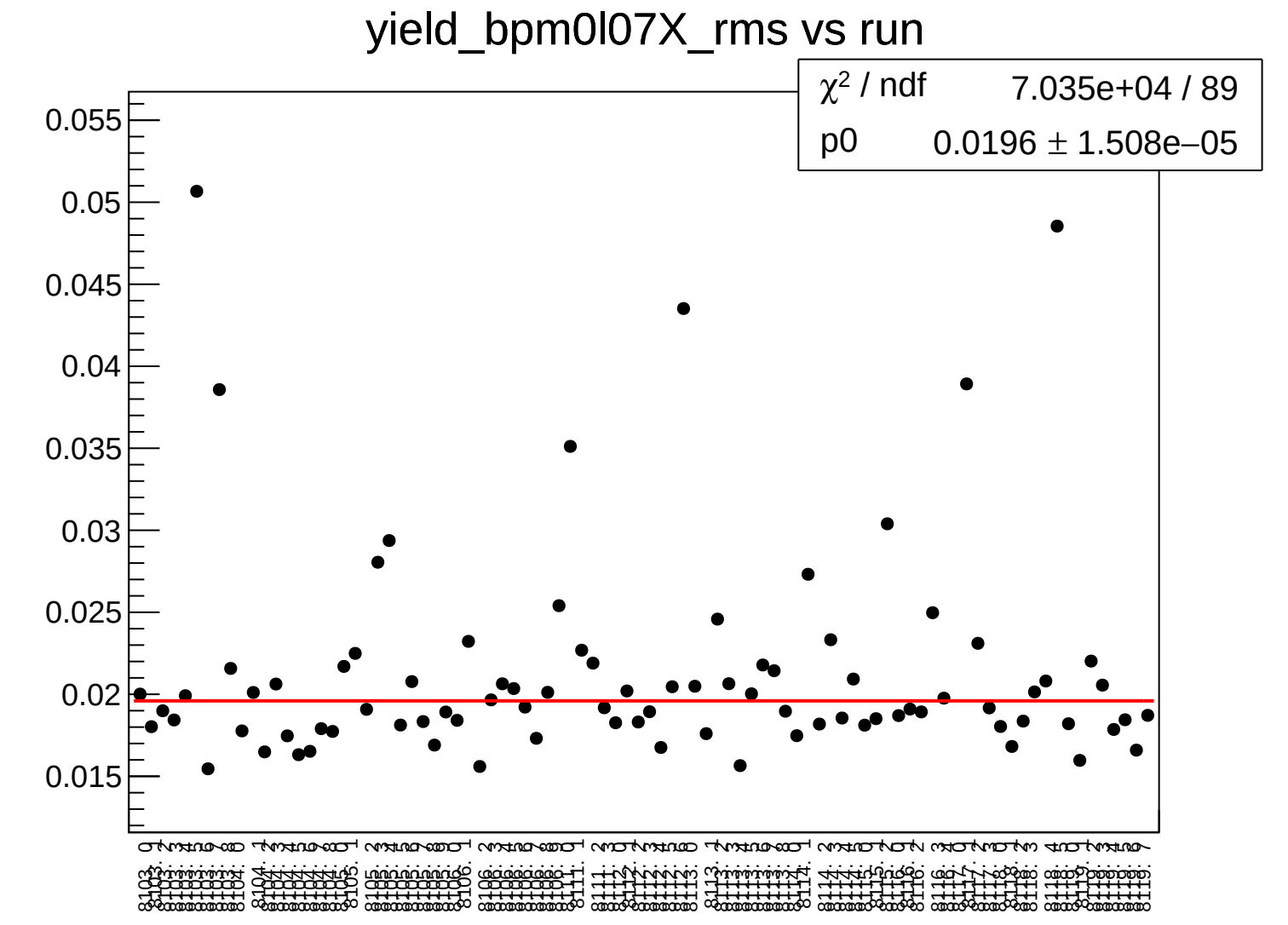

yield_bpm0l06Y_mean vs run
χ² / ndf 2.429e+05 / 89
p0 9.678 ± 6.55e−05
9.74
9.72
9.7
9.68
9.66
9.64
9.62
pull
Entries 90
Mean −2319
Std Dev 0
100
50
0
−50
−100

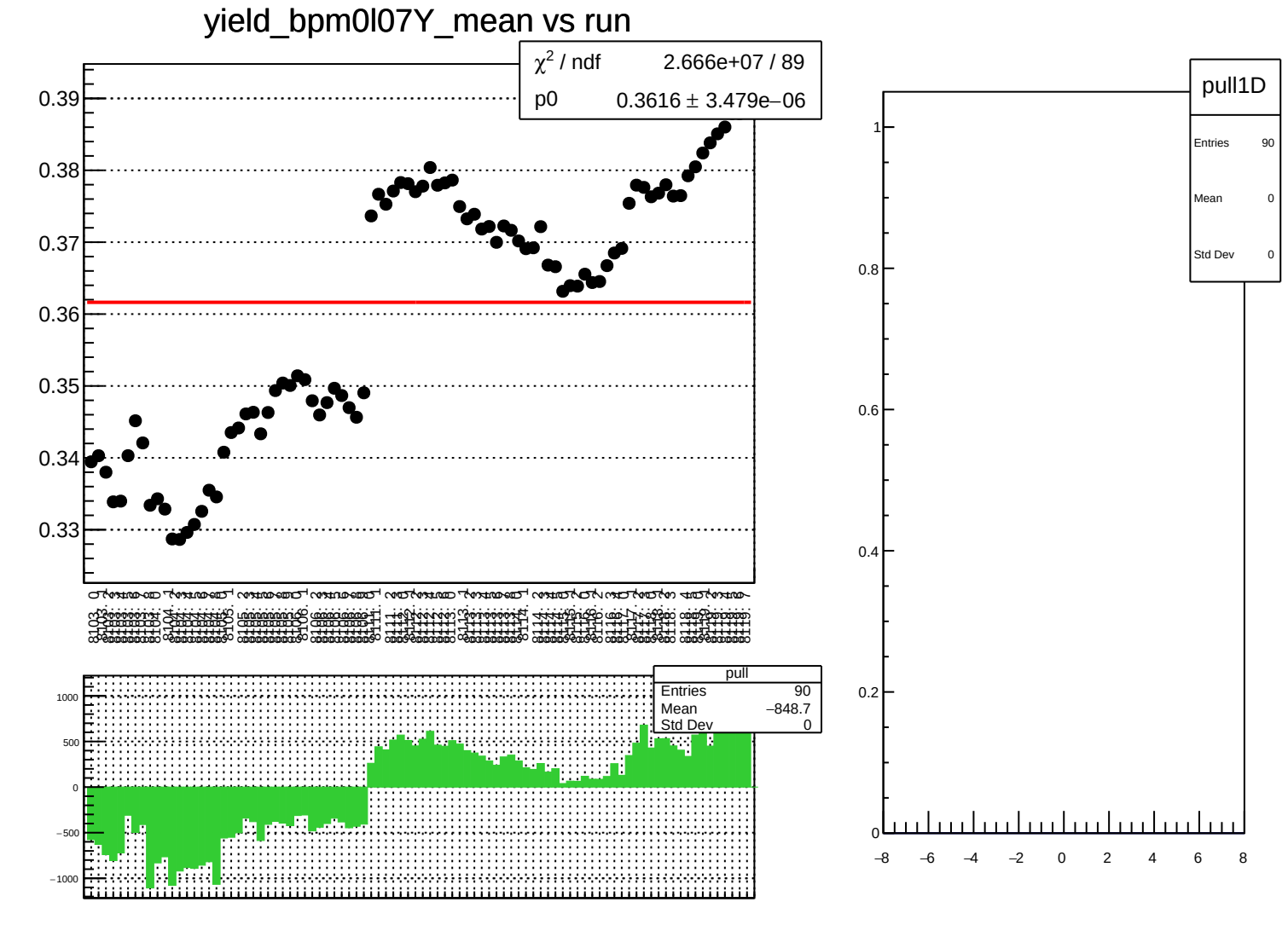

pull1D
Entries 90
Mean −3.436
Std Dev 2.47
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

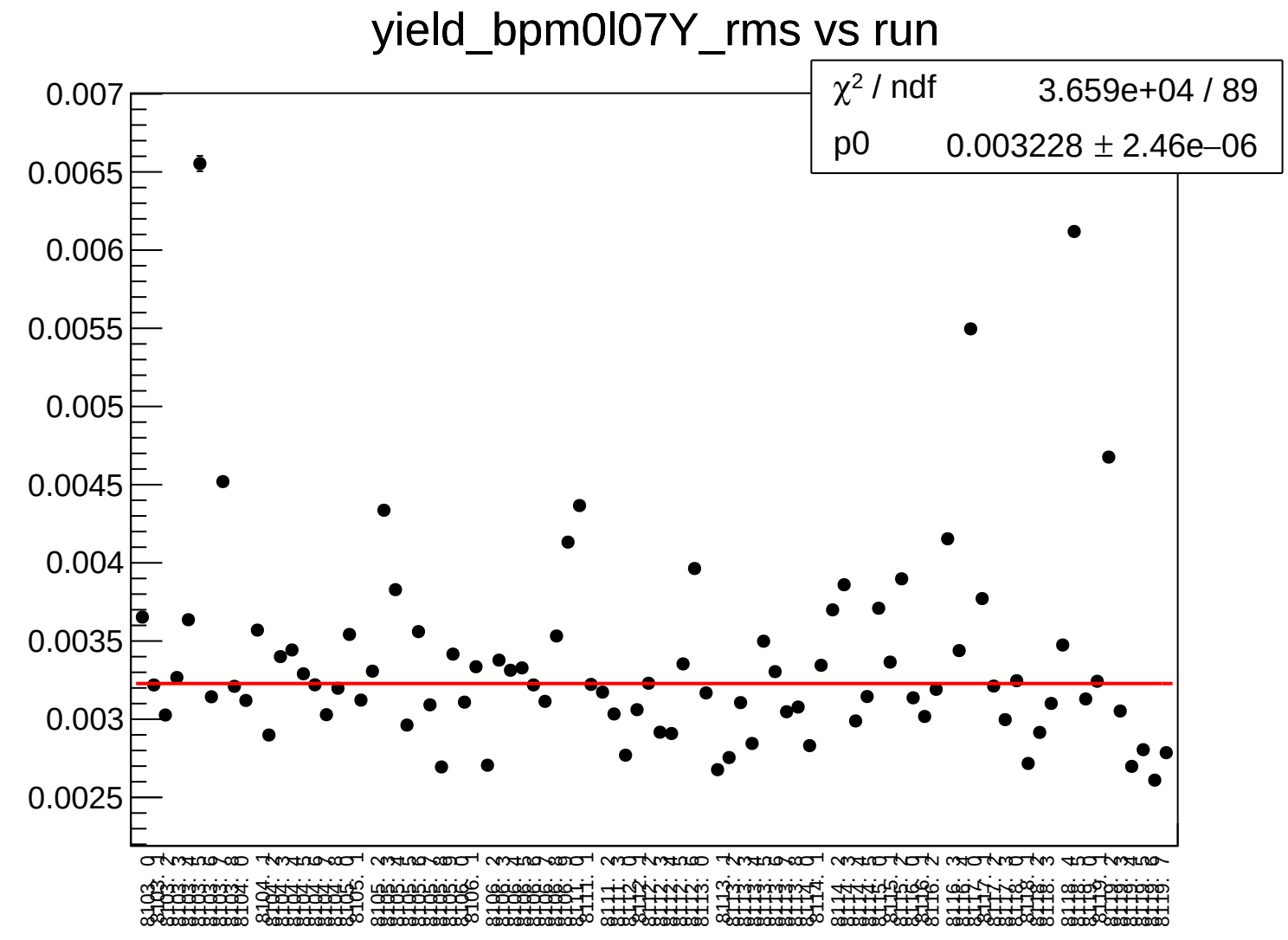

yield_bpm0l06Y_rms vs run
χ² / ndf 1766 / 89
p0 0.06139 ± 4.631e–05
0.066
0.064
0.062
0.06
0.058
0.056

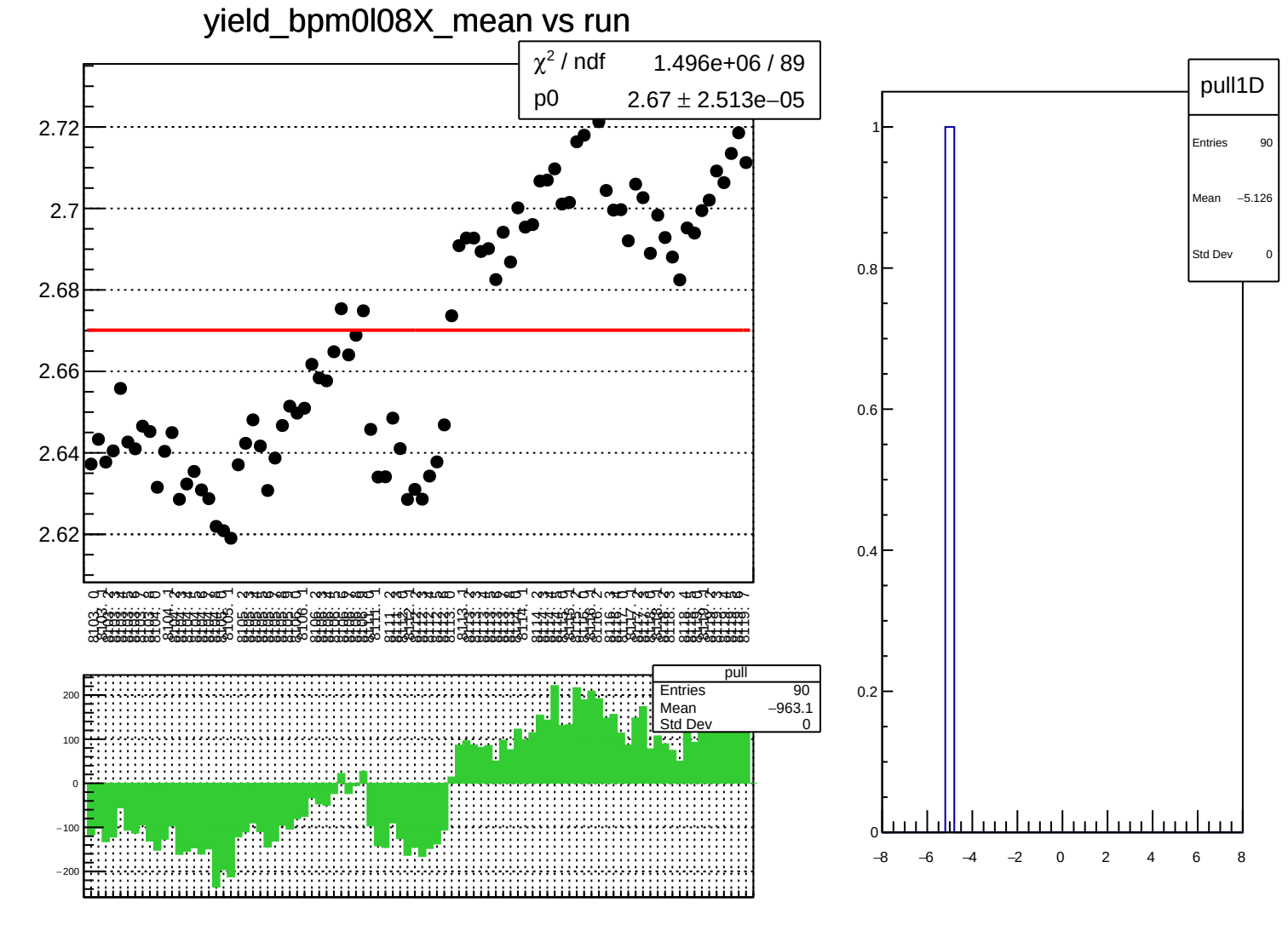

yield_bpm0l07X_mean vs run
χ² / ndf 2.619e+07 / 89
p0 0.3703 ± 2.133e−05
pull
Entries 90
Mean 5943
Std Dev 0

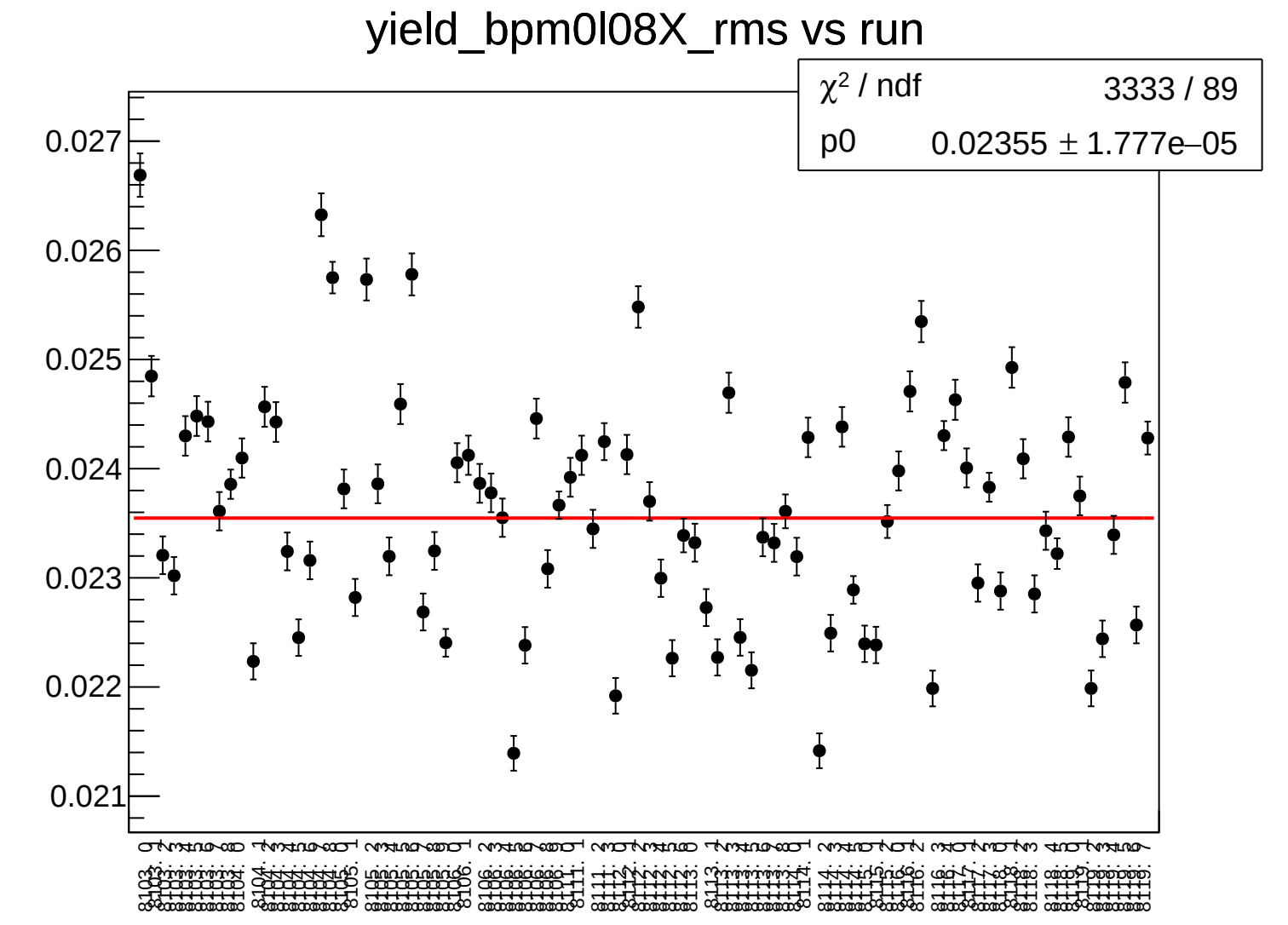

pull1D
Entries 90
Mean 4.758
Std Dev 0

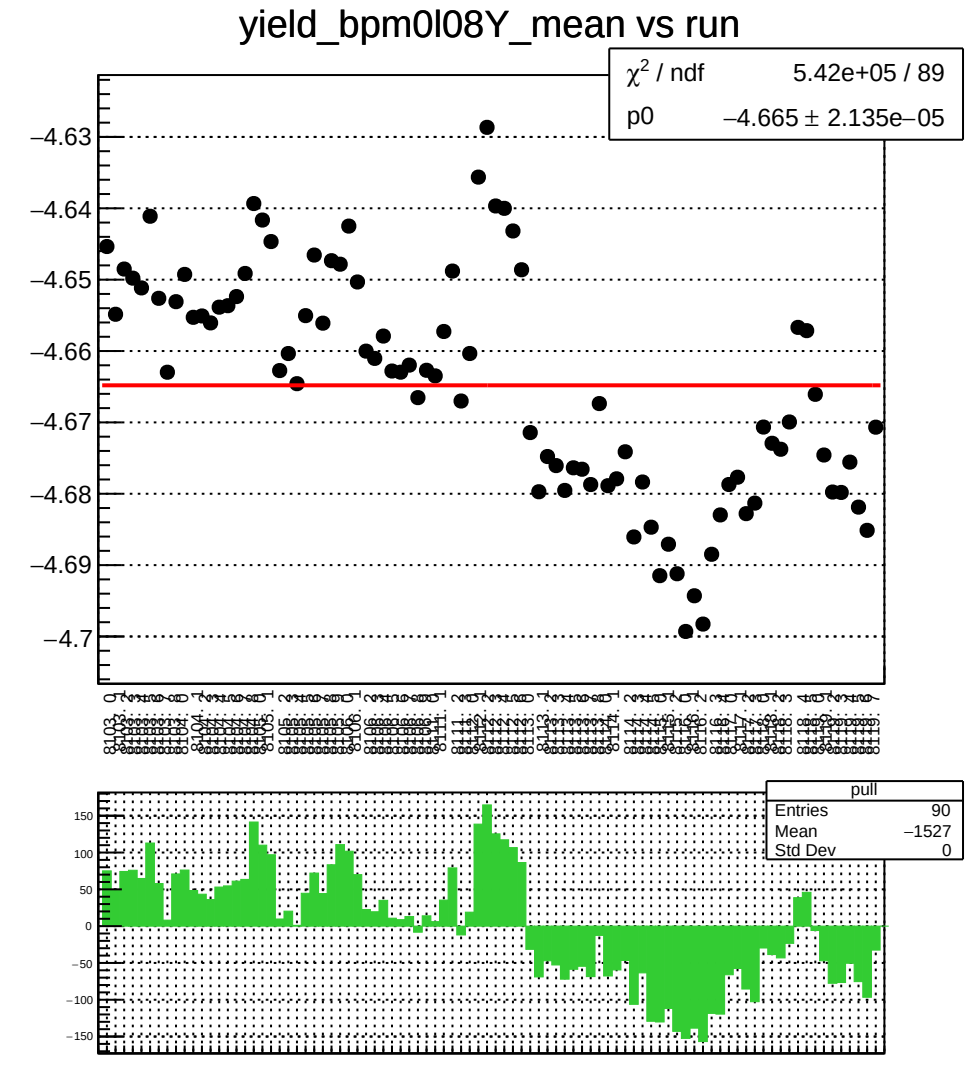

yield_bpm0l07X_rms vs run
χ² / ndf 7.035e+04 / 89
p0 0.0196 ± 1.508e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

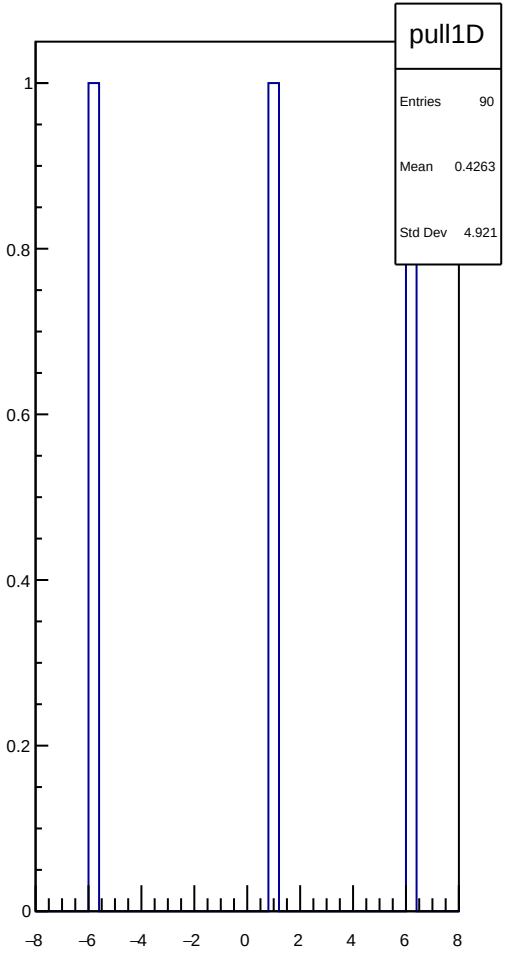

yield_bpm0l07Y_mean vs run
χ² / ndf 2.666e+07 / 89
p0 0.3616 ± 3.479e−06
0.39
0.38
0.37
0.36
0.35
0.34
0.33
pull
Entries 90
Mean −848.7
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

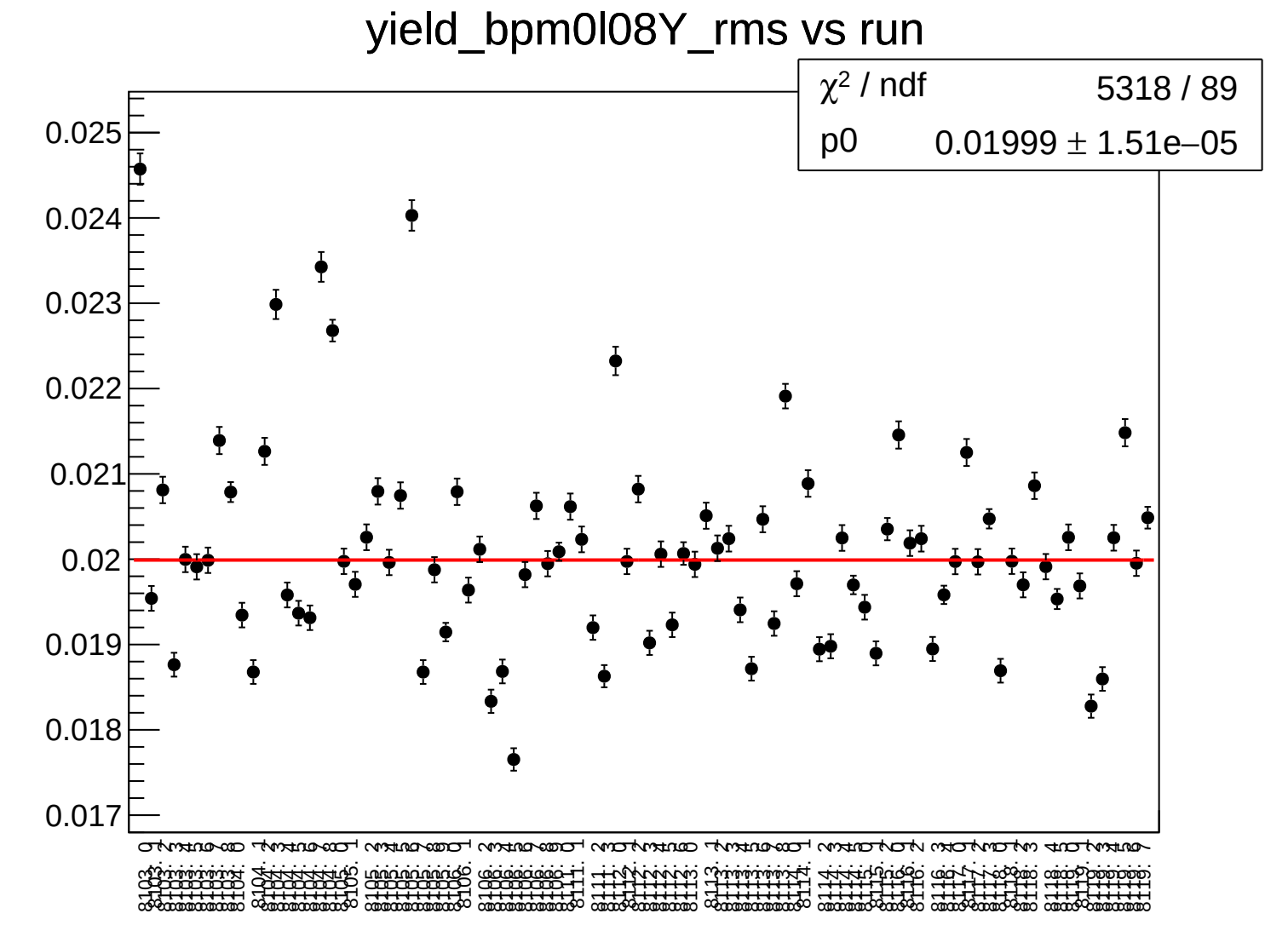

yield_bpm0l07Y_rms vs run
χ² / ndf 3.659e+04 / 89
p0 0.003228 ± 2.46e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

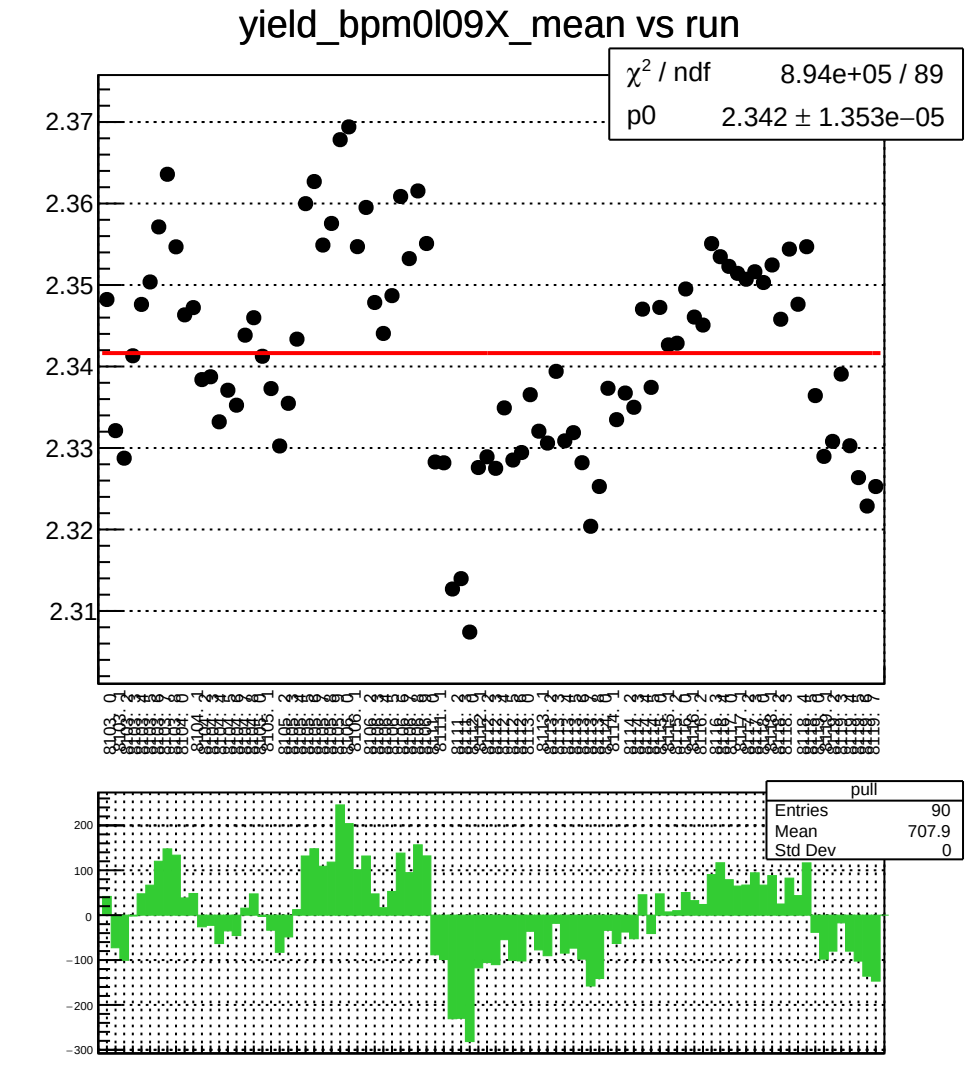

yield_bpm0l08X_mean vs run
χ² / ndf 1.496e+06 / 89
p0 2.67 ± 2.513e−05
2.72
2.7
2.68
2.66
2.64
2.62
pull
Entries 90
Mean −963.1
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 90
Mean −5.126
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

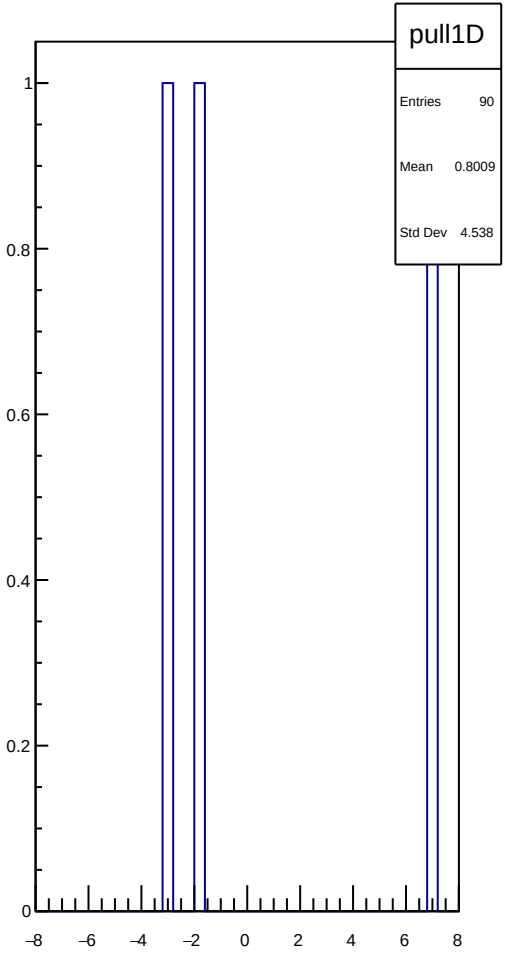

yield_bpm0l08X_rms vs run
χ² / ndf 3333 / 89
p0 0.02355 ± 1.777e–05
0.027
0.026
0.025
0.024
0.023
0.022
0.021

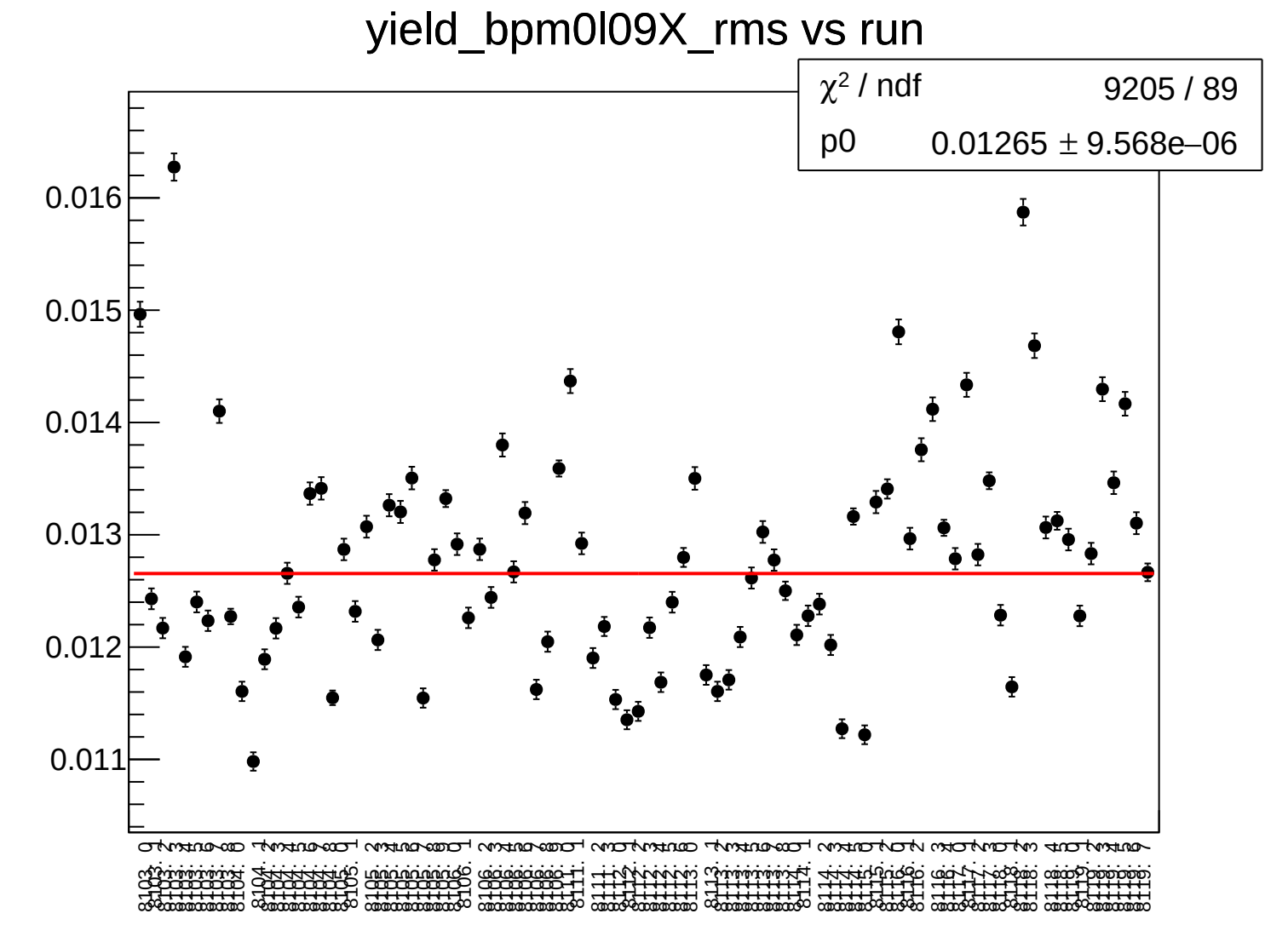

yield_bpm0l08Y_mean vs run
χ² / ndf 5.42e+05 / 89
p0 −4.665 ± 2.135e−05
−4.63
−4.64
−4.65
−4.66
−4.67
−4.68
−4.69
−4.7
pull
Entries 90
Mean −1527
Std Dev 0
150
100
50
0
−50
−100
−150

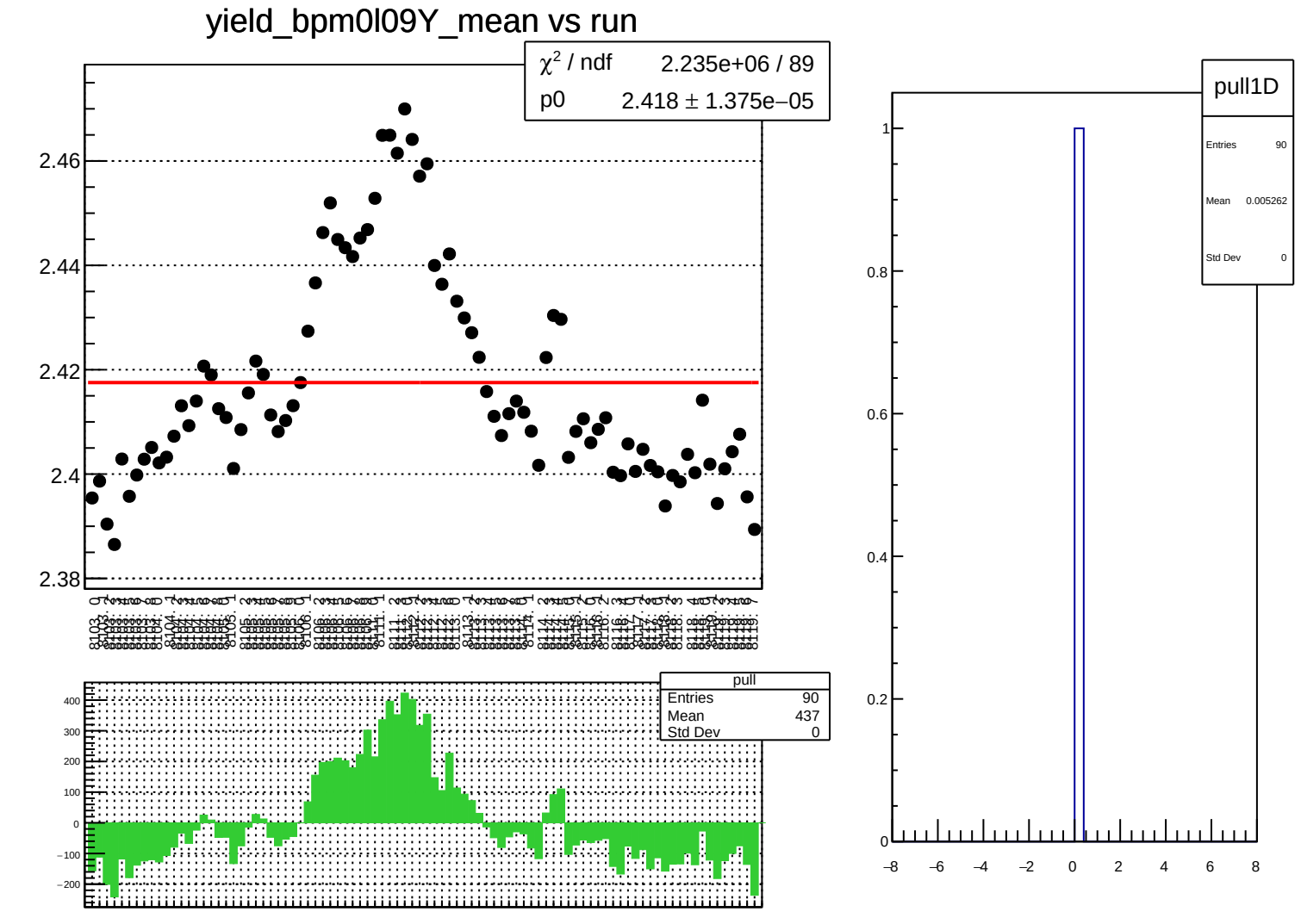

pull1D
Entries 90
Mean 0.4263
Std Dev 4.921
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

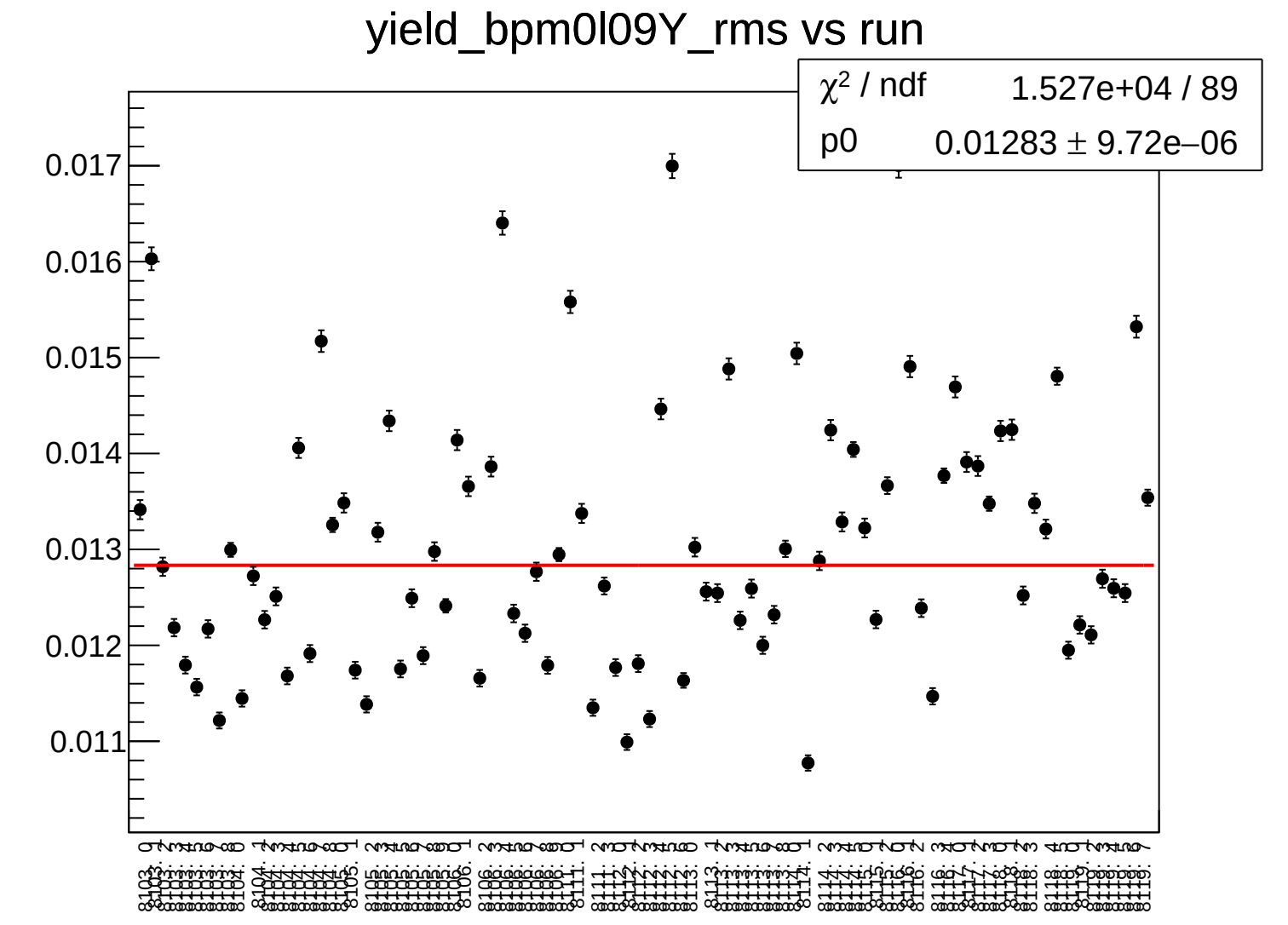

yield_bpm0l08Y_rms vs run
χ² / ndf 5318 / 89
p0 0.01999 ± 1.51e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

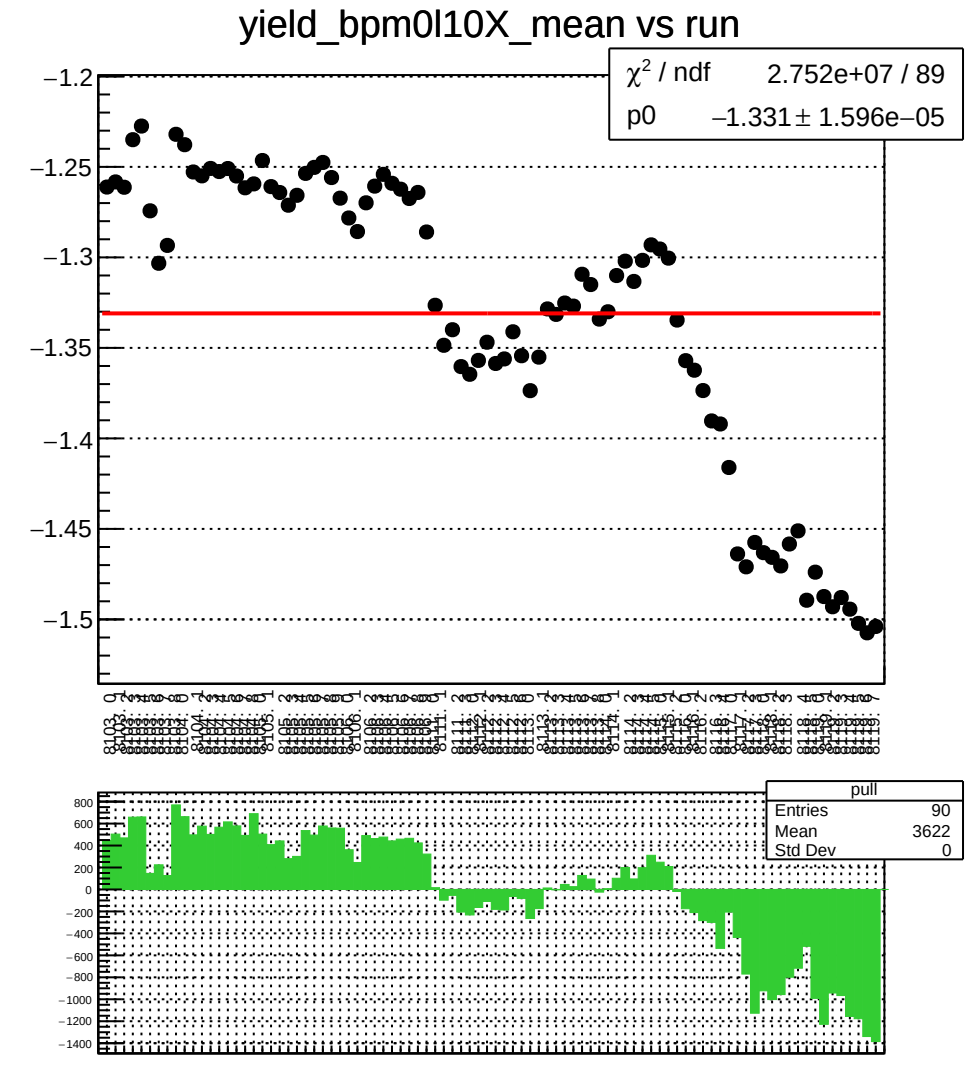

yield_bpm0l09X_mean vs run
χ² / ndf 8.94e+05 / 89
p0 2.342 ± 1.353e−05
2.37
2.36
2.35
2.34
2.33
2.32
2.31
pull
Entries 90
Mean 707.9
Std Dev 0
200
100
0
−100
−200
−300

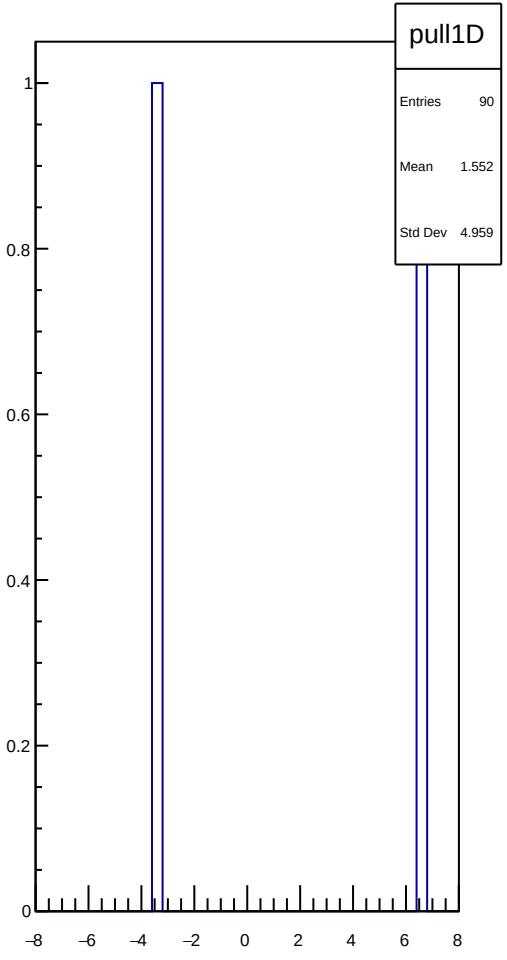

pull1D
Entries 90
Mean 0.8009
Std Dev 4.538
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

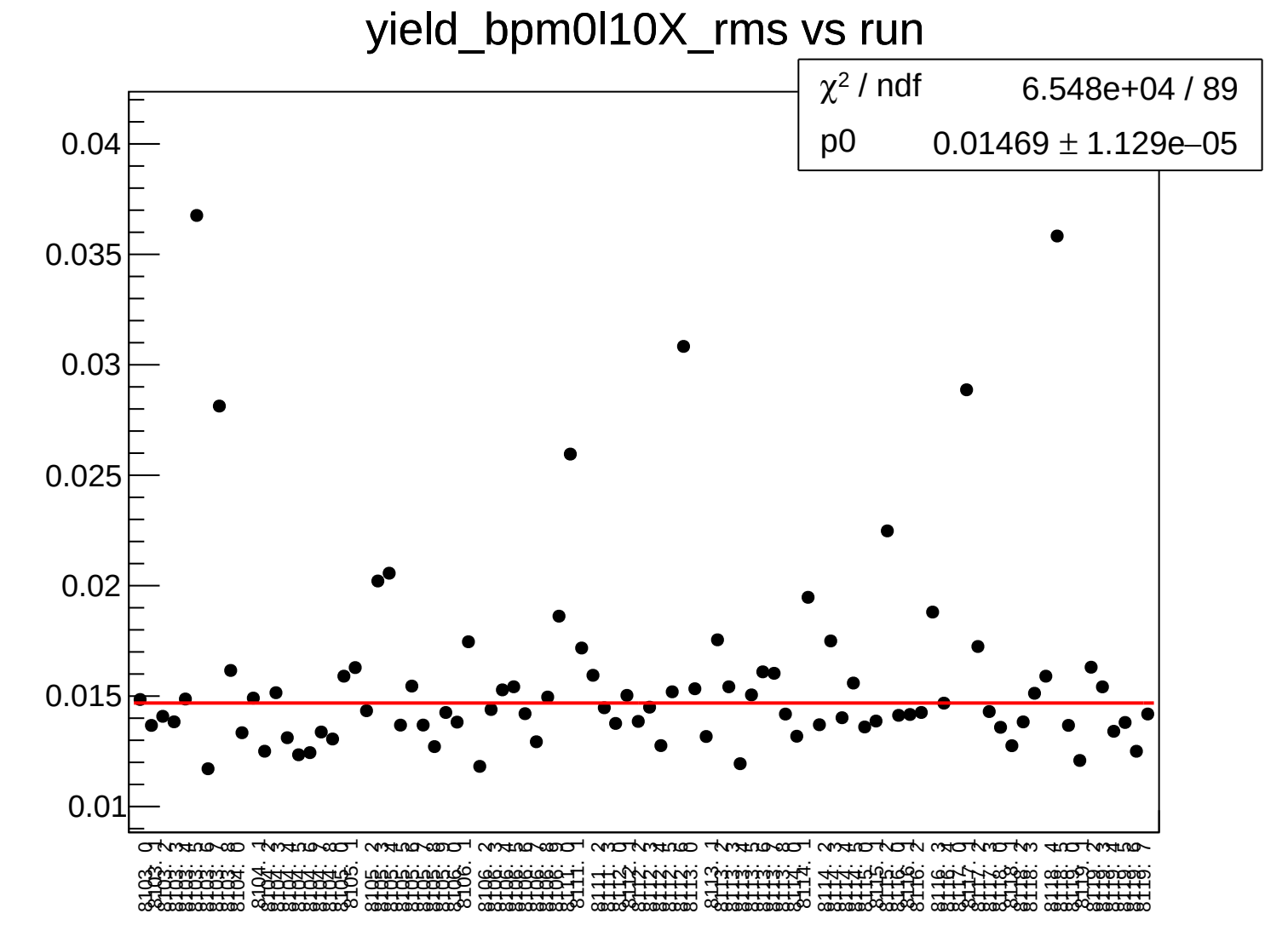

yield_bpm0l09X_rms vs run
χ² / ndf 9205 / 89
p0 0.01265 ± 9.568e–06
0.016
0.015
0.014
0.013
0.012
0.011

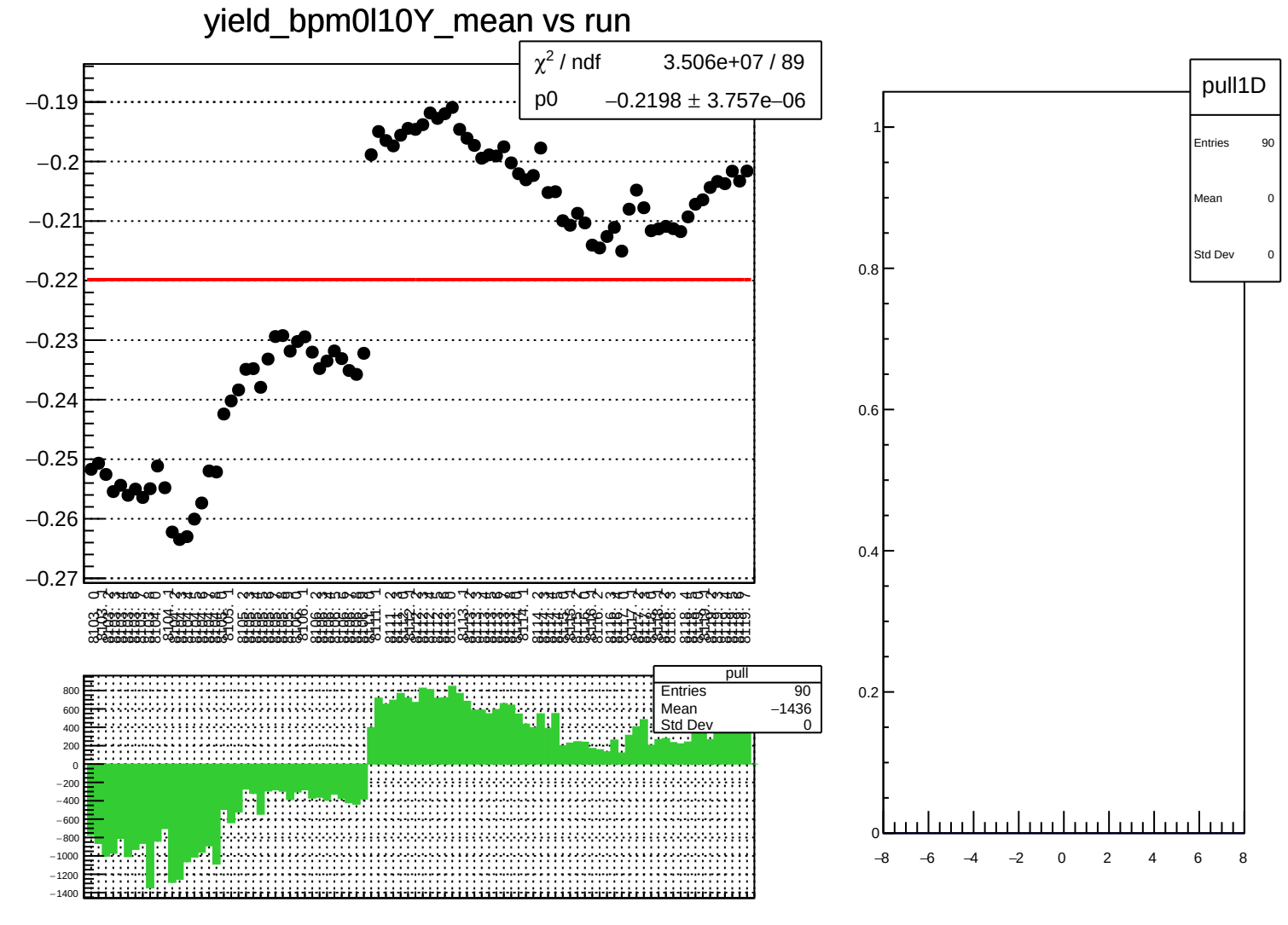

yield_bpm0l09Y_mean vs run
χ² / ndf 2.235e+06 / 89
p0 2.418 ± 1.375e−05
2.46
2.44
2.42
2.4
2.38
pull
Entries 90
Mean 437
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 90
Mean 0.005262
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

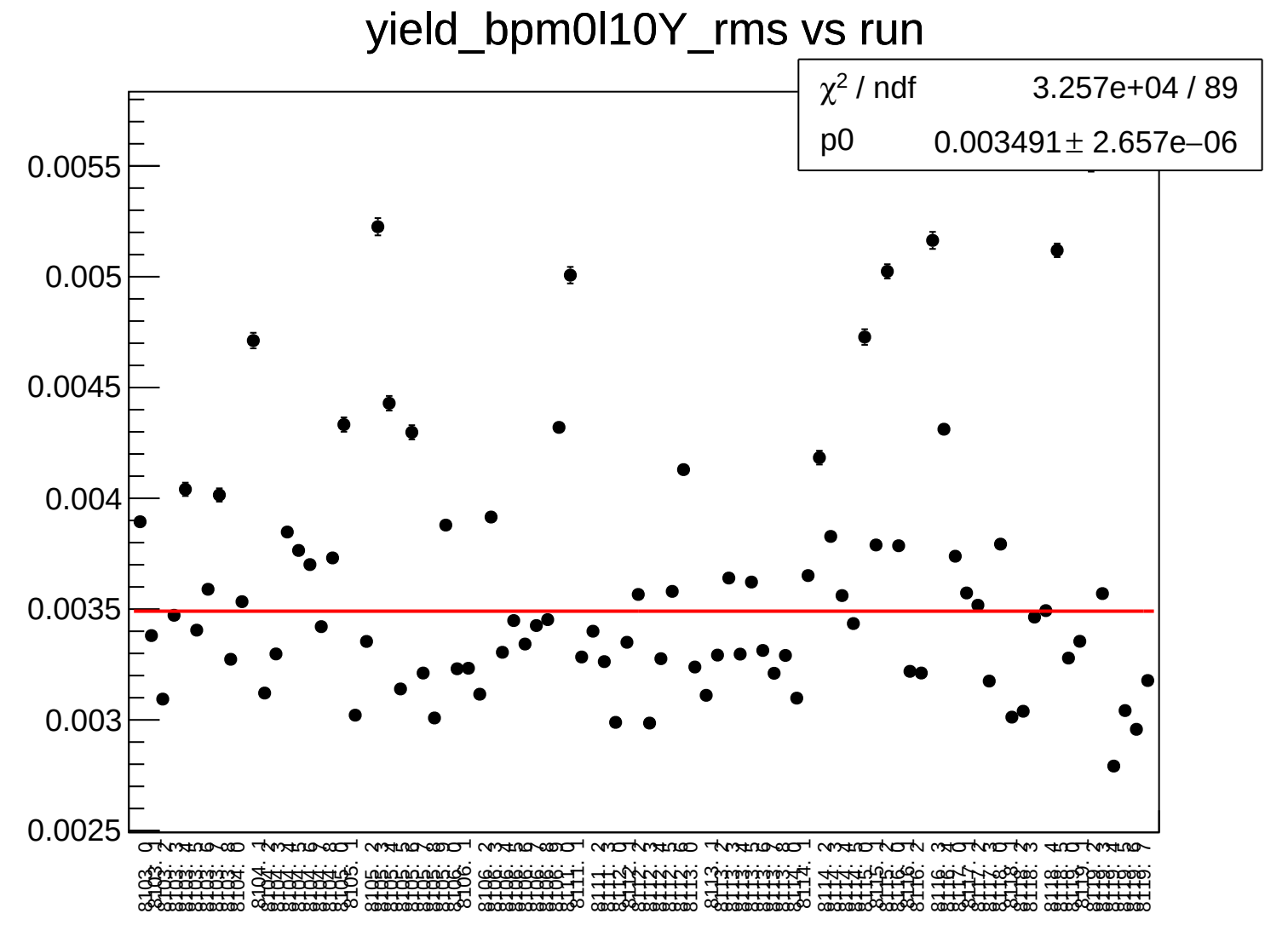

yield_bpm0l09Y_rms vs run
χ² / ndf 1.527e+04 / 89
p0 0.01283 ± 9.72e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011

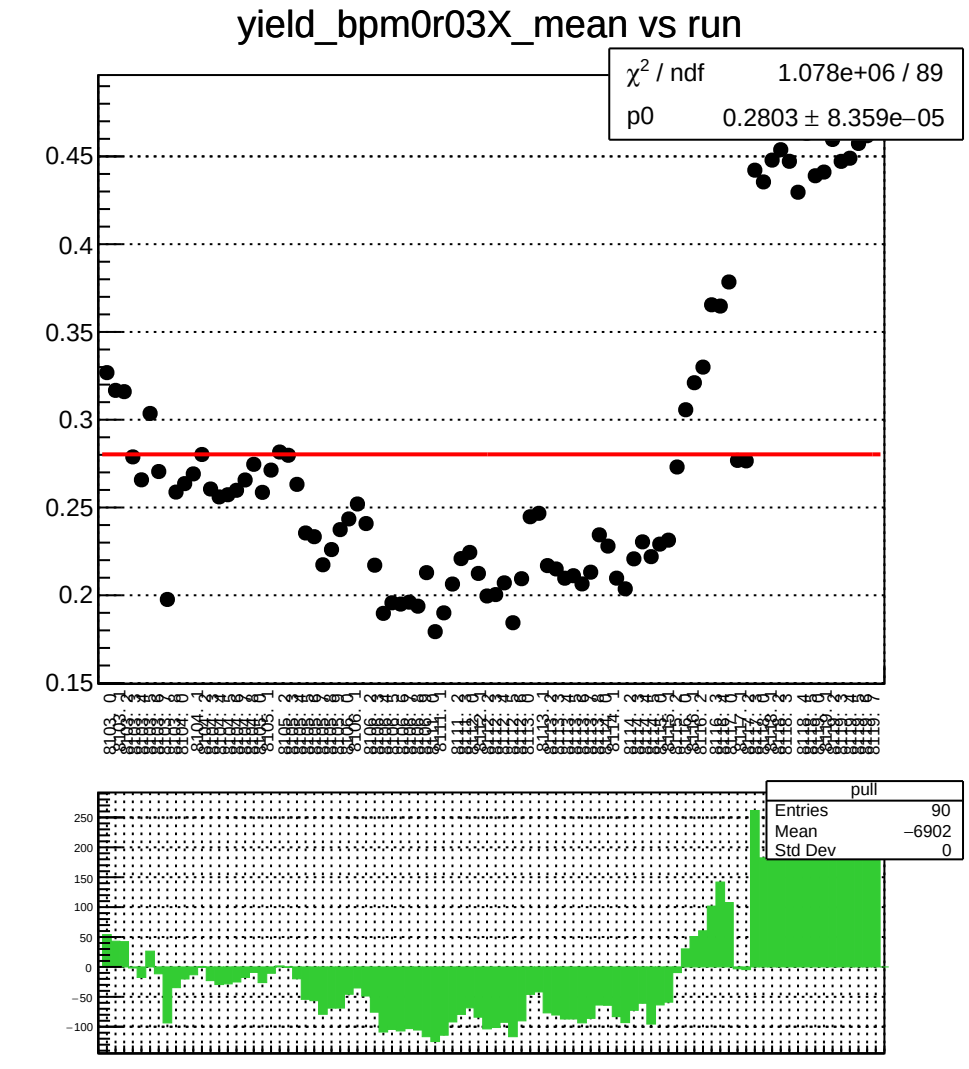

yield_bpm0l10X_mean vs run
χ² / ndf 2.752e+07 / 89
p0 −1.331 ± 1.596e−05
pull
Entries 90
Mean 3622
Std Dev 0

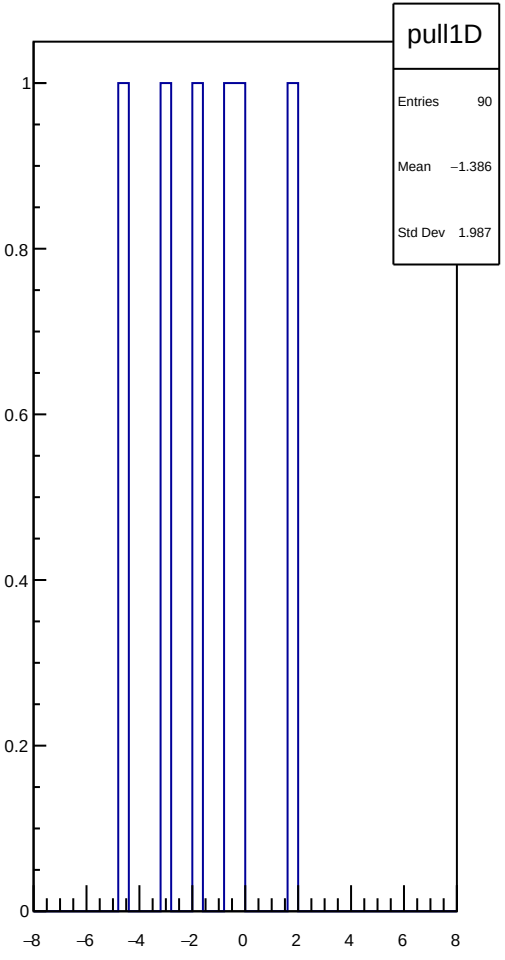

pull1D
Entries 90
Mean 1.552
Std Dev 4.959

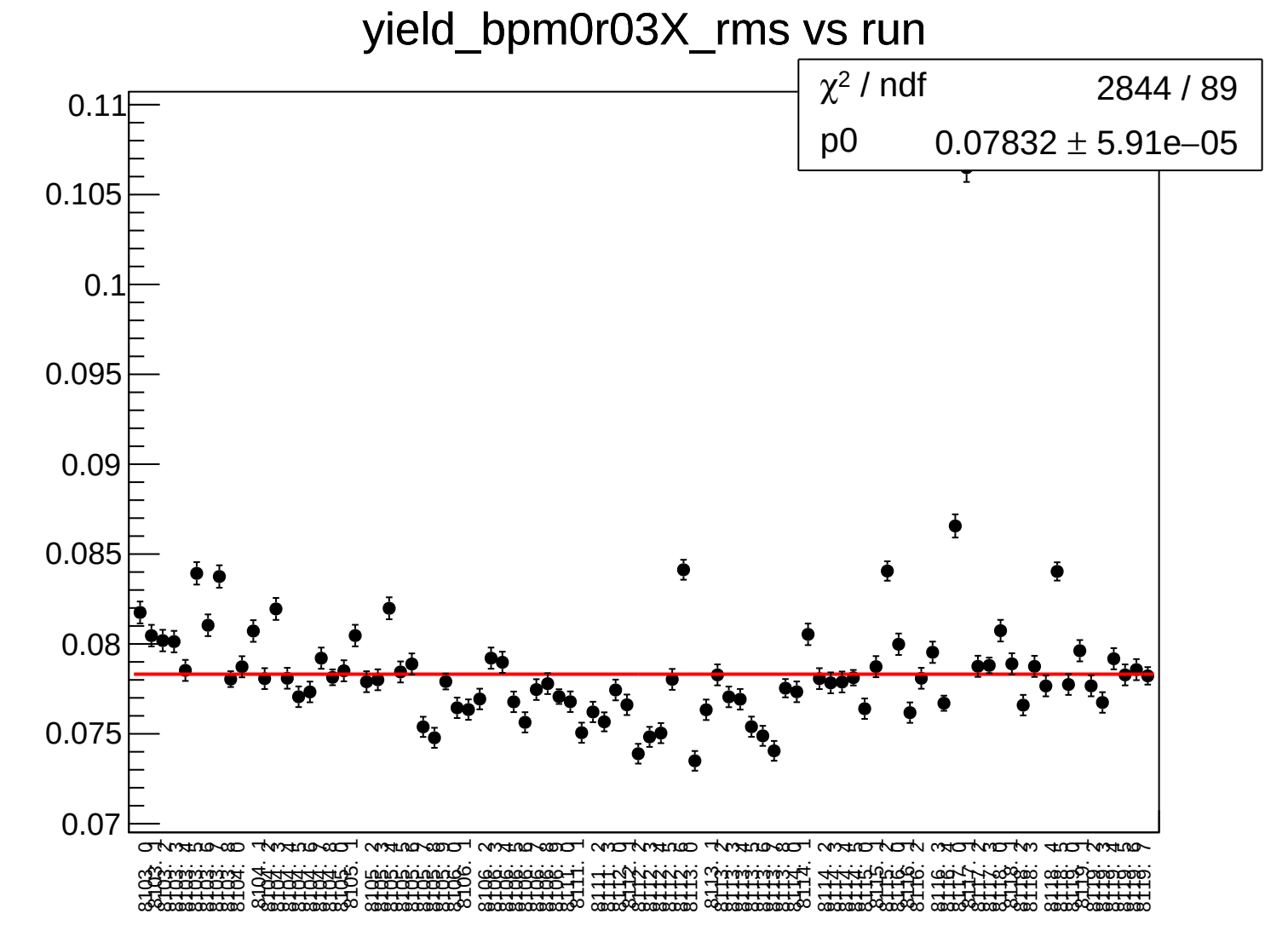

yield_bpm0l10X_rms vs run
χ² / ndf 6.548e+04 / 89
p0 0.01469 ± 1.129e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

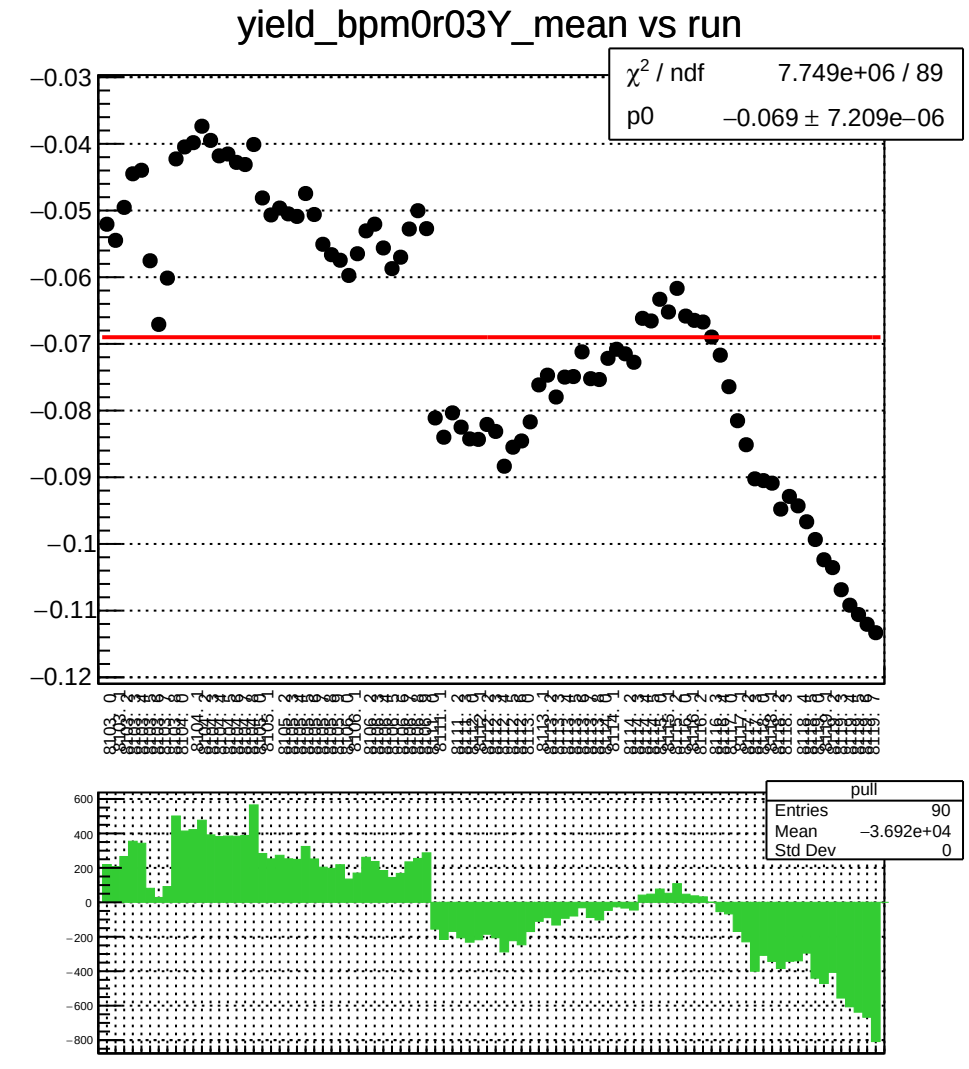

yield_bpm0l10Y_mean vs run
χ² / ndf 3.506e+07 / 89
p0 −0.2198 ± 3.757e−06
−0.19
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
pull
Entries 90
Mean −1436
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

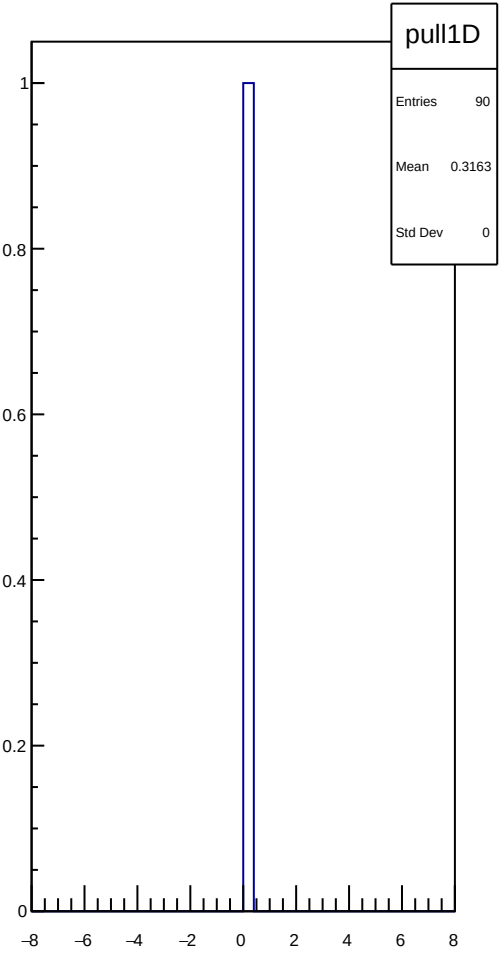

yield_bpm0l10Y_rms vs run
χ² / ndf 3.257e+04 / 89
p0 0.003491 ± 2.657e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

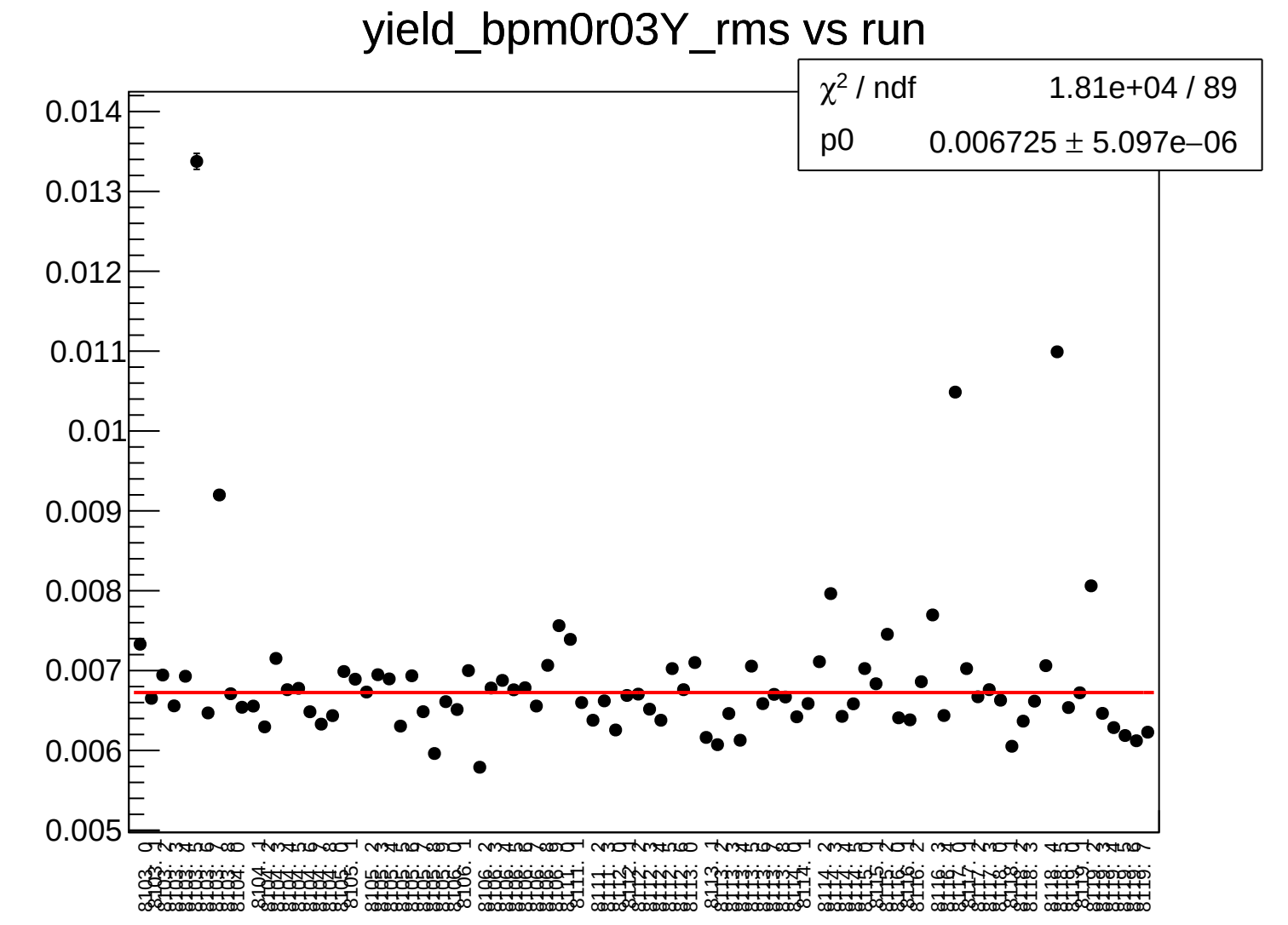

yield_bpm0r03X_mean vs run
χ² / ndf 1.078e+06 / 89
p0 0.2803 ± 8.359e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
pull
Entries 90
Mean −6902
Std Dev 0
250
200
150
100
50
0
−50
−100

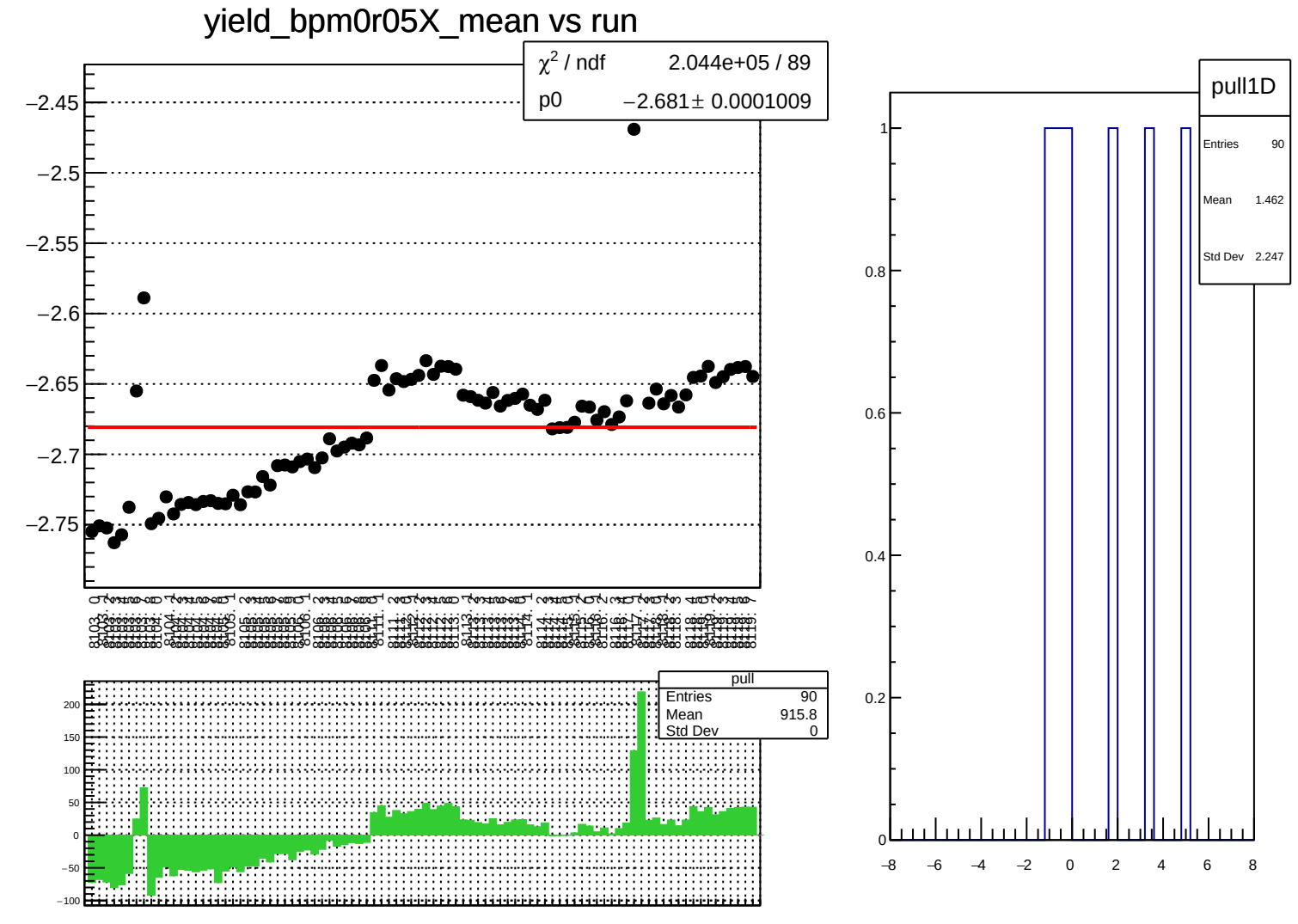

pull1D
Entries 90
Mean −1.386
Std Dev 1.987
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

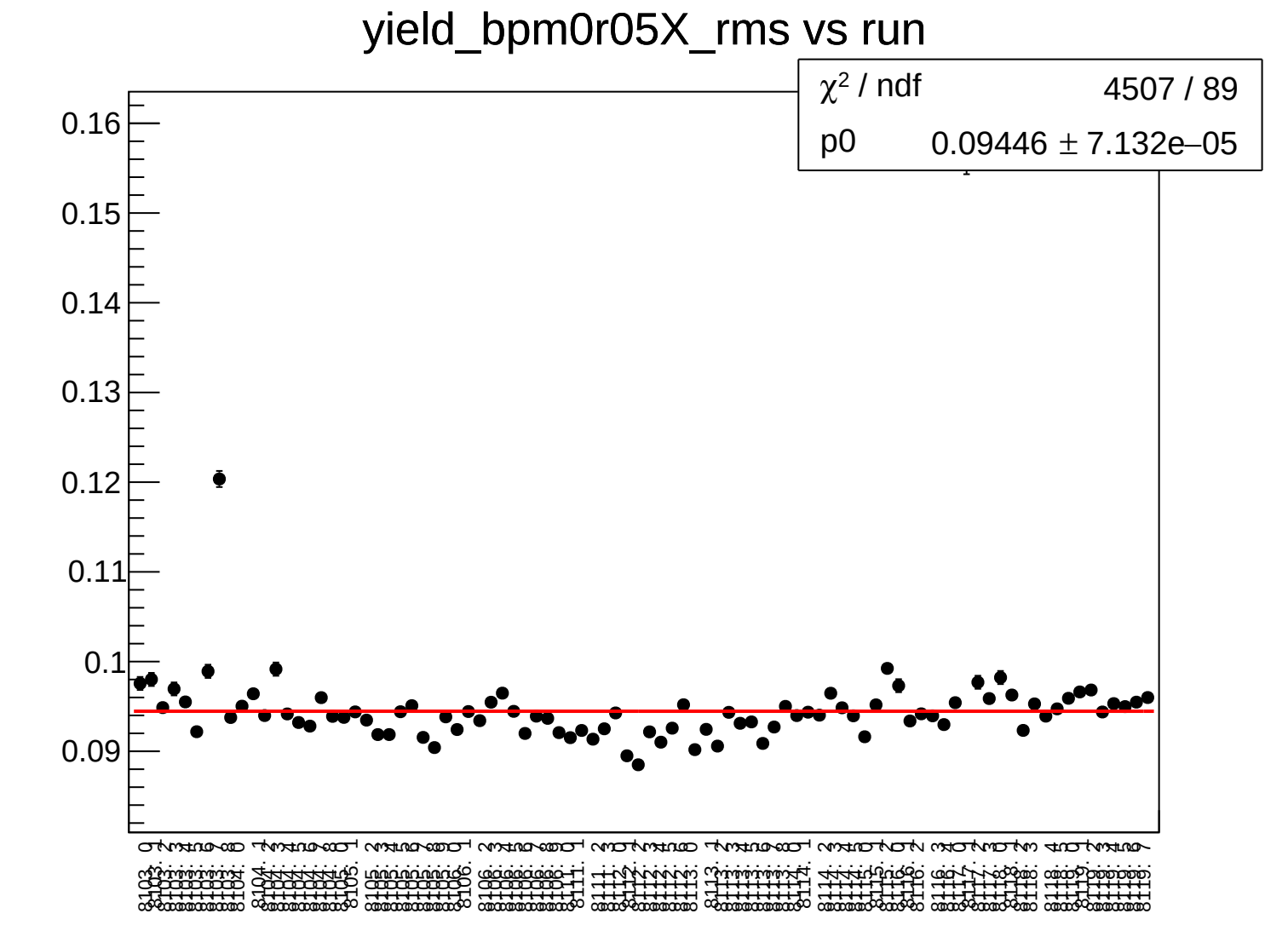

yield_bpm0r03X_rms vs run
χ² / ndf 2844 / 89
p0 0.07832 ± 5.91e−05
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07

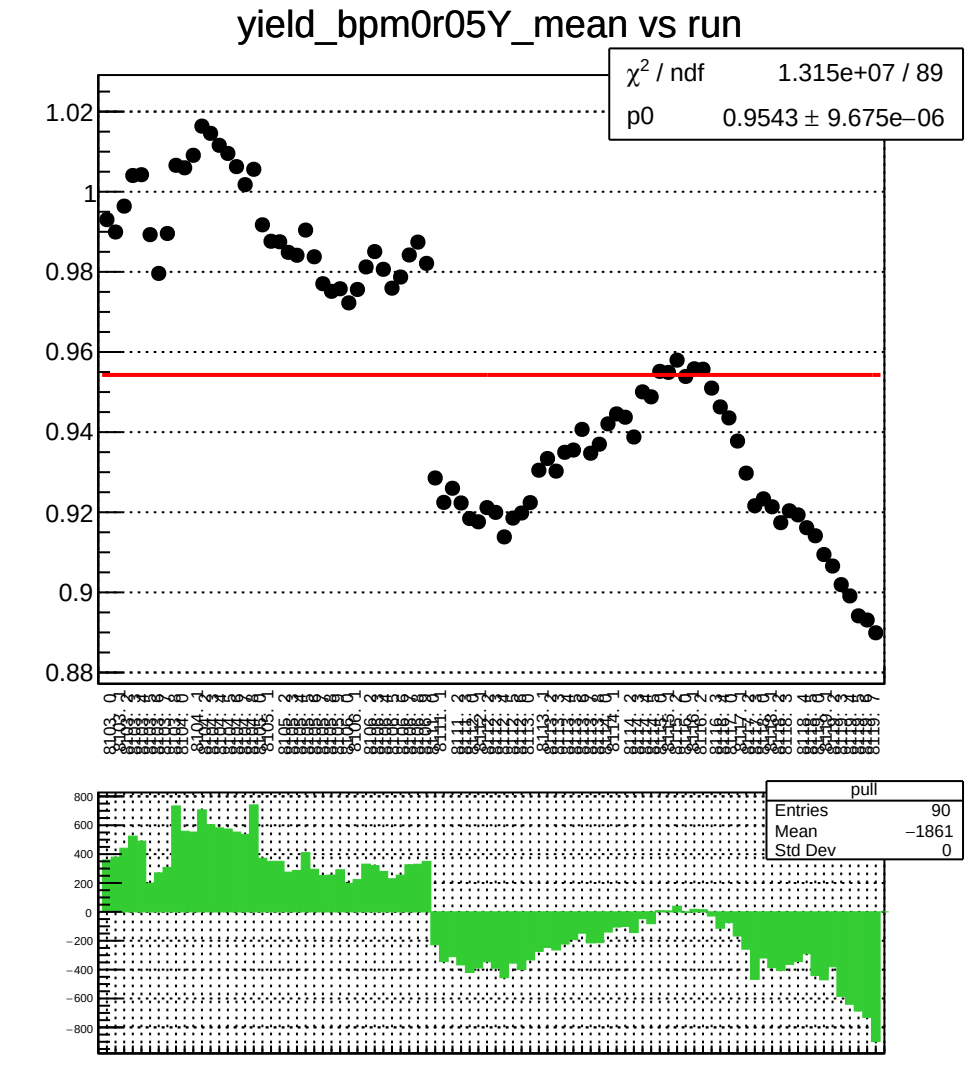

yield_bpm0r03Y_mean vs run
χ² / ndf 7.749e+06 / 89
p0 −0.069 ± 7.209e−06
pull
Entries 90
Mean −3.692e+04
Std Dev 0

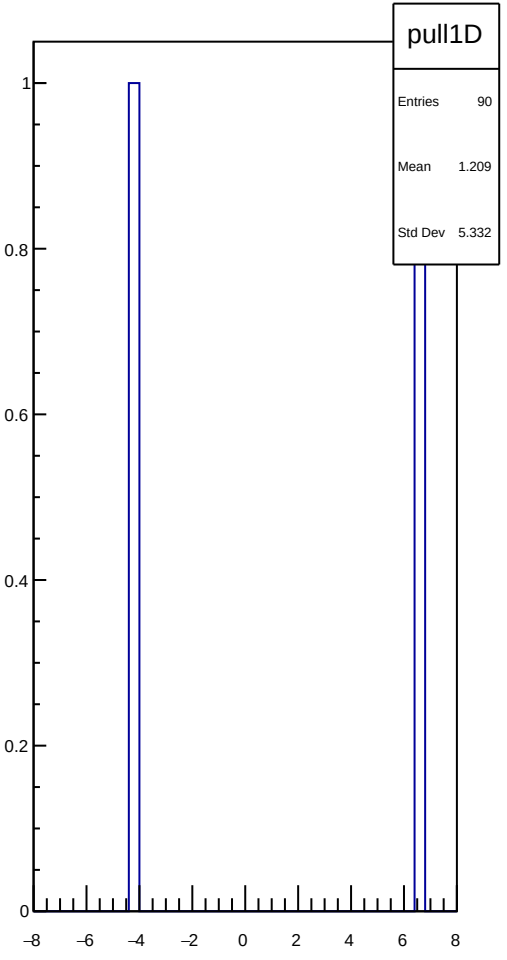

pull1D
Entries 90
Mean 0.3163
Std Dev 0

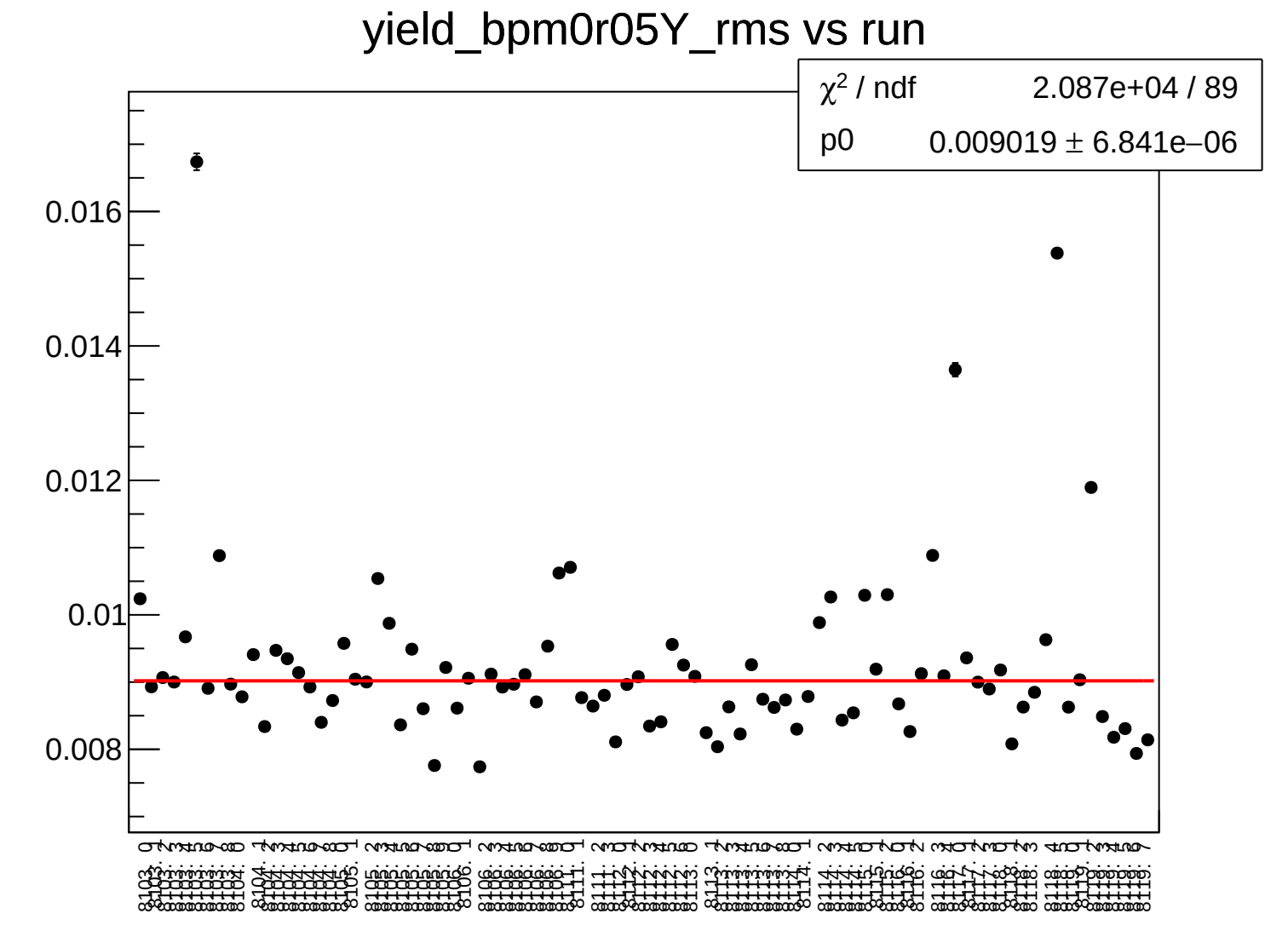

yield_bpm0r03Y_rms vs run
χ² / ndf 1.81e+04 / 89
p0 0.006725 ± 5.097e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

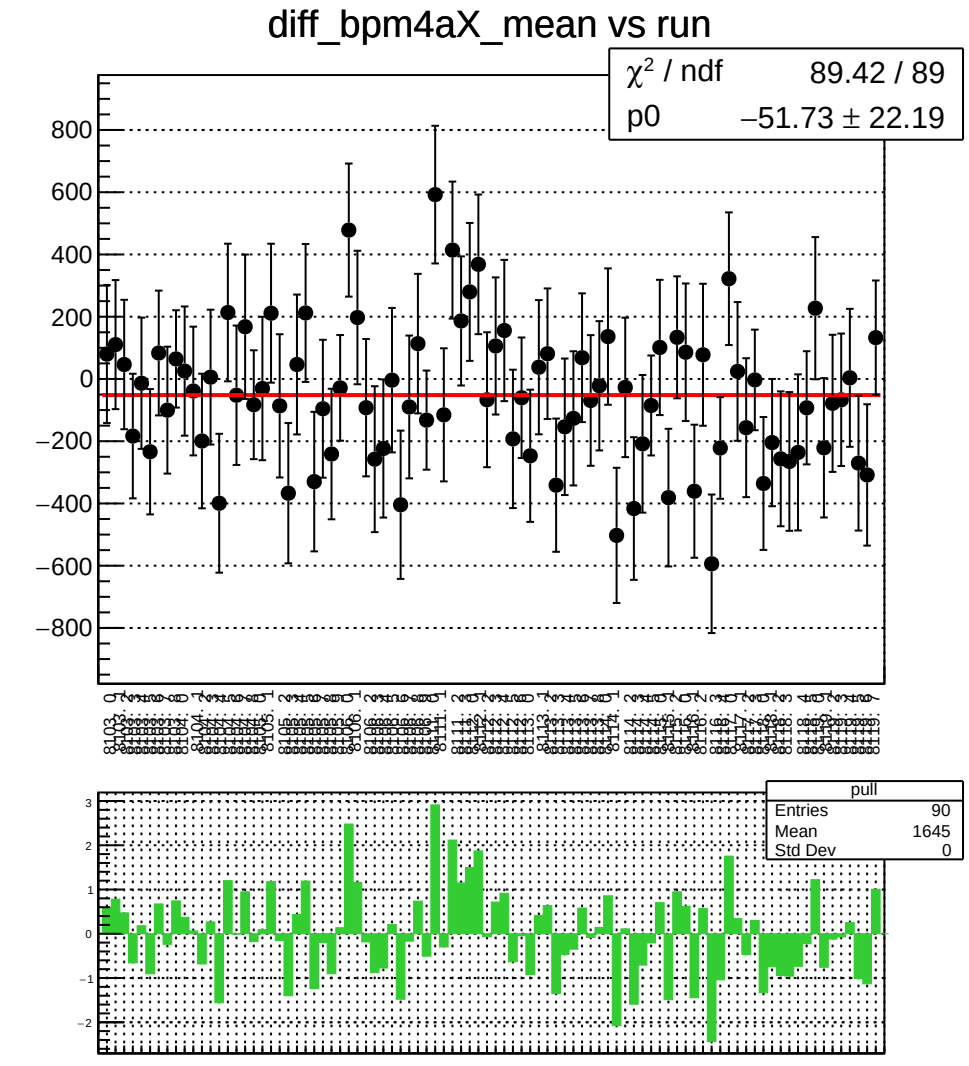

yield_bpm0r05X_mean vs run
χ² / ndf 2.044e+05 / 89
p0 −2.681 ± 0.0001009
−2.45
−2.5
−2.55
−2.6
−2.65
−2.7
−2.75
pull
Entries 90
Mean 915.8
Std Dev 0
200
150
100
50
0
−50
−100
pull1D
Entries 90
Mean 1.462
Std Dev 2.247
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

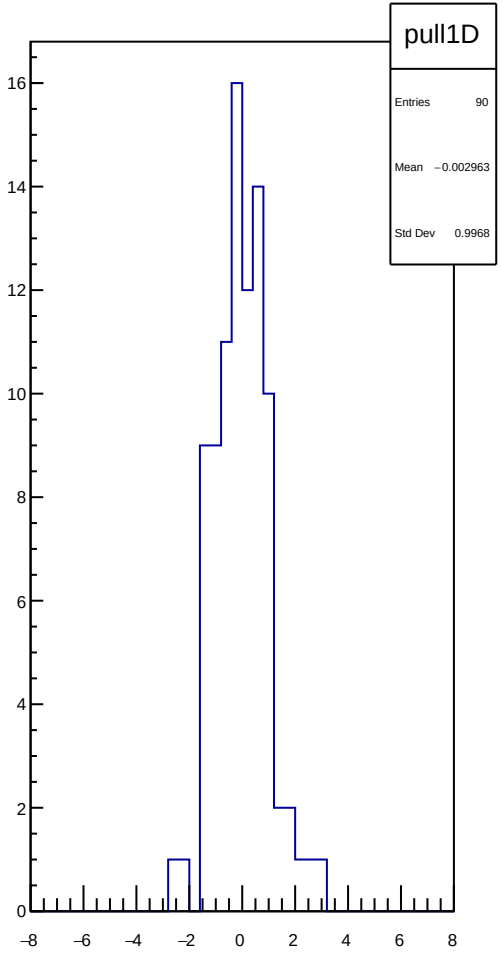

yield_bpm0r05X_rms vs run
χ² / ndf 4507 / 89
p0 0.09446 ± 7.132e–05
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09

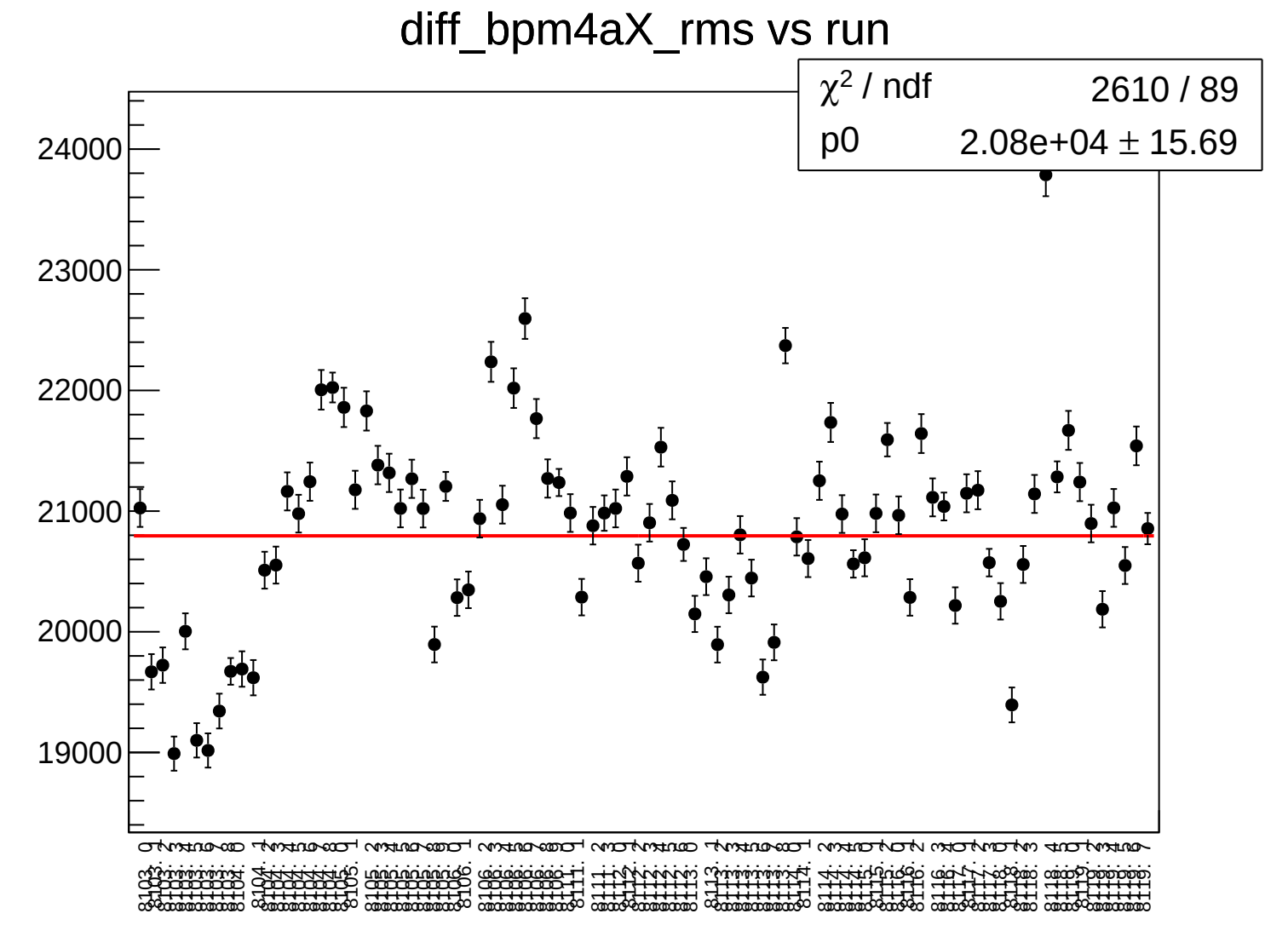

yield_bpm0r05Y_mean vs run
χ² / ndf 1.315e+07 / 89
p0 0.9543 ± 9.675e−06
1.02
1
0.98
0.96
0.94
0.92
0.9
0.88
pull
Entries 90
Mean −1861
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

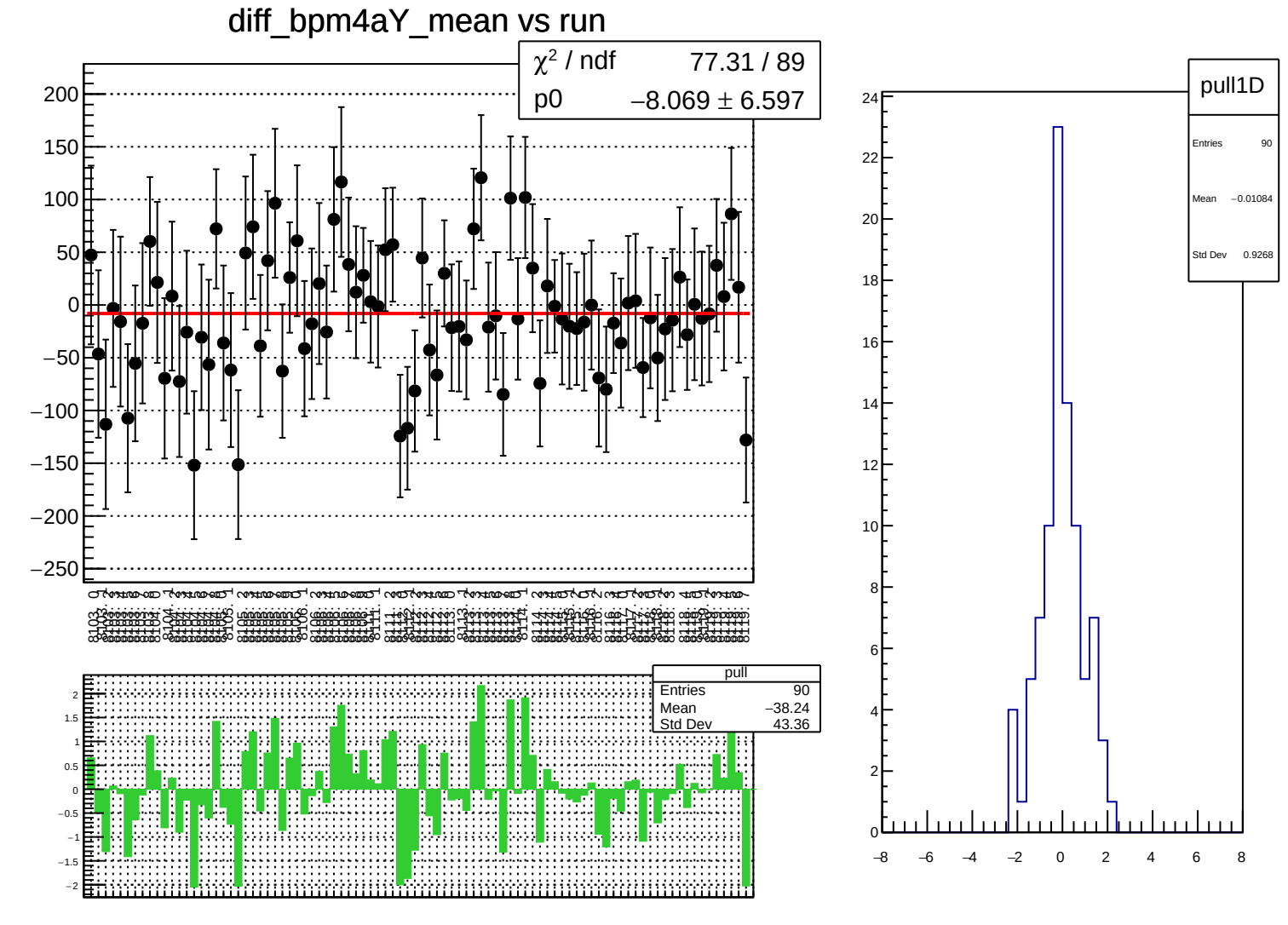

pull1D
Entries 90
Mean 1.209
Std Dev 5.332
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

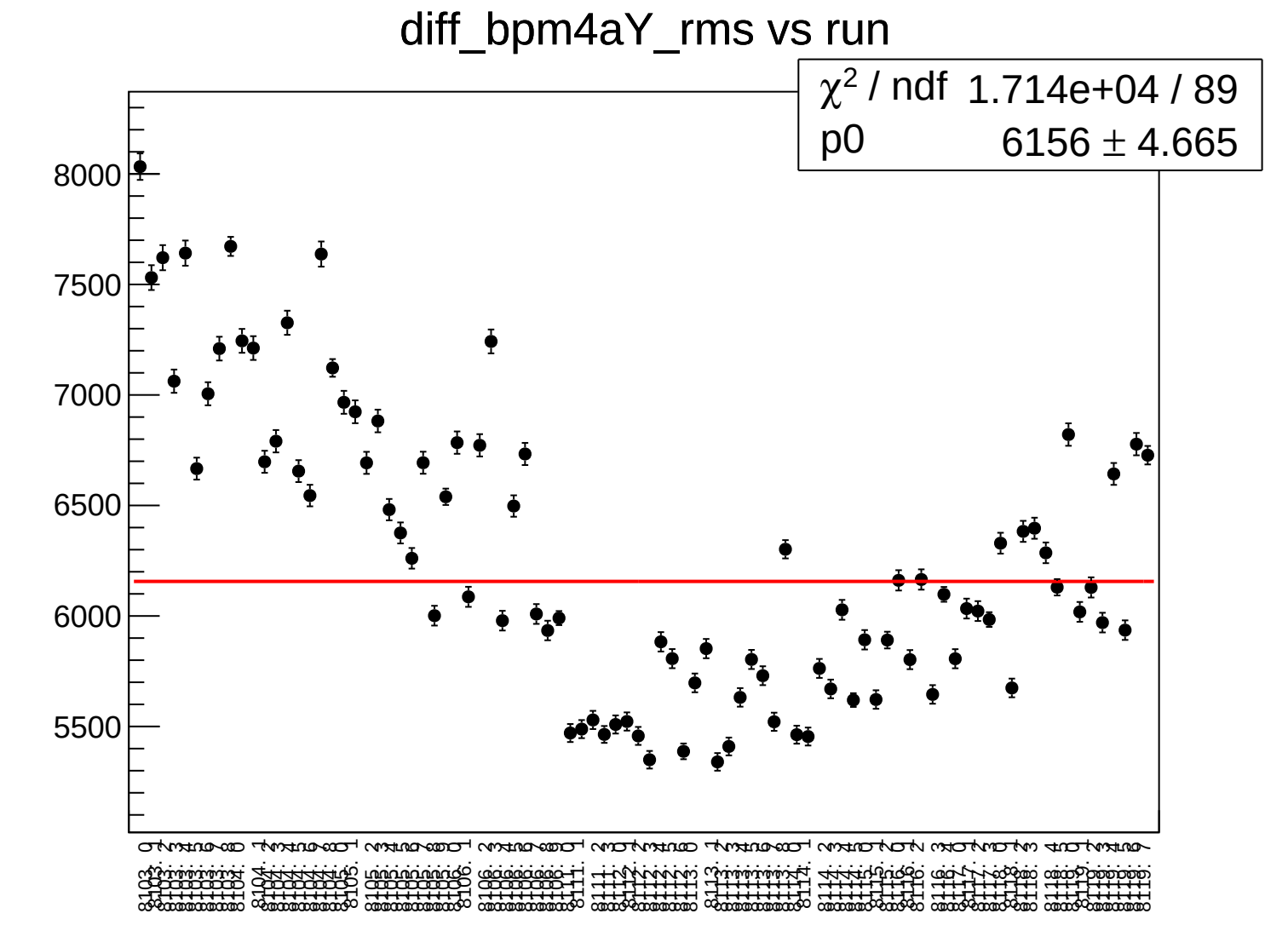

yield_bpm0r05Y_rms vs run
χ² / ndf 2.087e+04 / 89
p0 0.009019 ± 6.841e−06
0.016
0.014
0.012
0.01
0.008

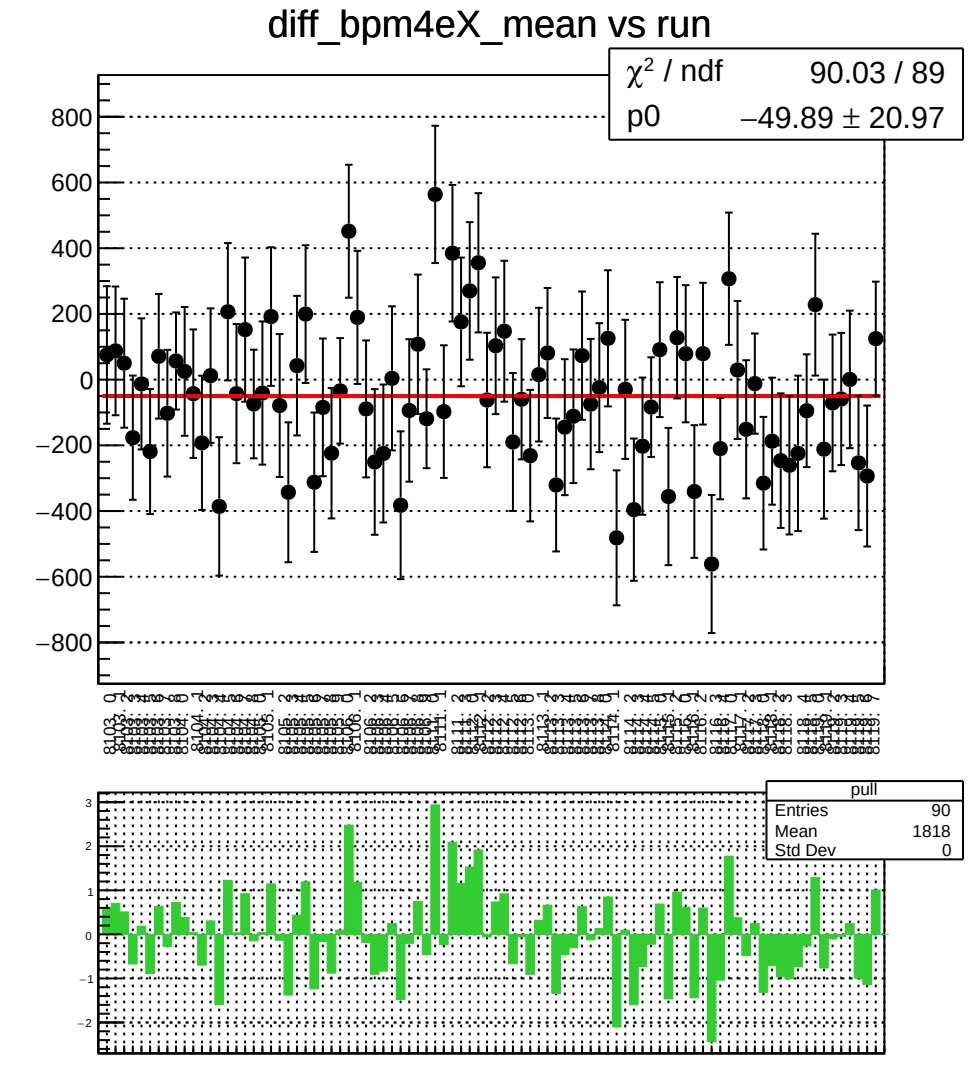

diff_bpm4aX_mean vs run
χ² / ndf 89.42 / 89
p0 −51.73 ± 22.19
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 90
Mean 1645
Std Dev 0
3
2
1
0
−1
−2

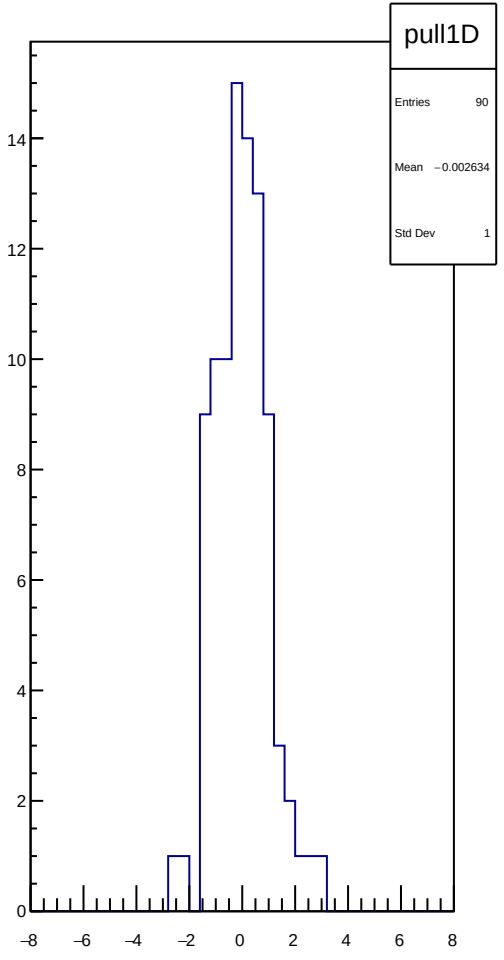

pull1D
Entries 90
Mean −0.002963
Std Dev 0.9968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

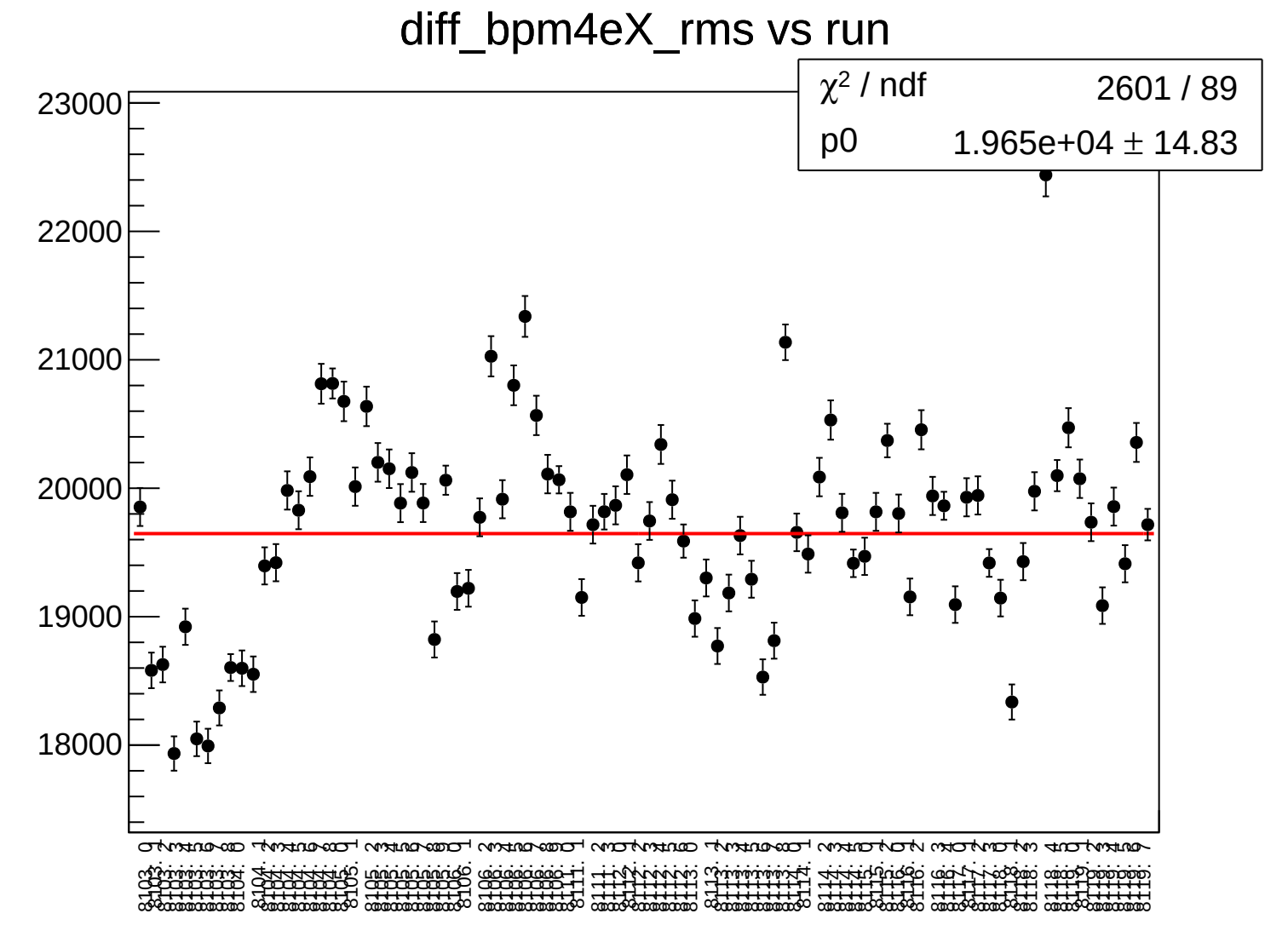

diff_bpm4aX_rms vs run
χ² / ndf 2610 / 89
p0 2.08e+04 ± 15.69
24000
23000
22000
21000
20000
19000

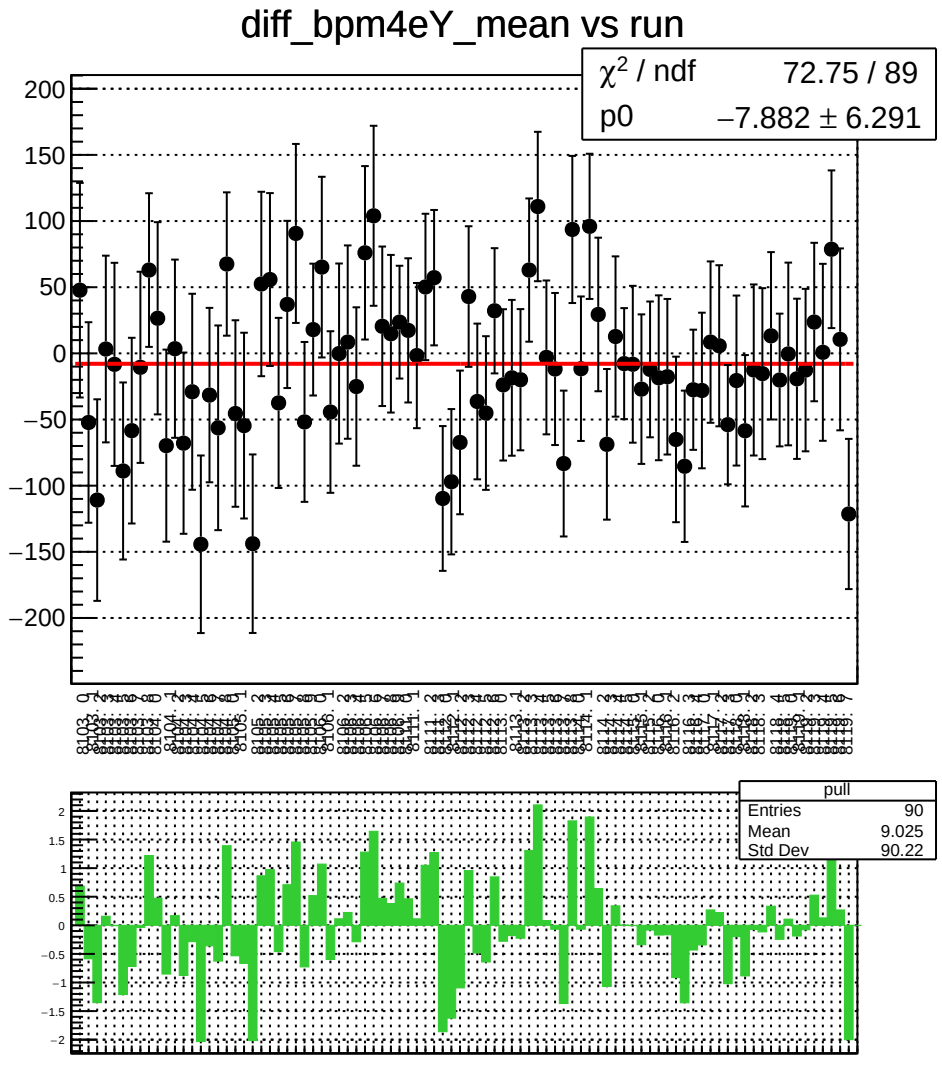

diff_bpm4aY_mean vs run
χ² / ndf 77.31 / 89
p0 −8.069 ± 6.597
pull
Entries 90
Mean −38.24
Std Dev 43.36
pull1D
Entries 90
Mean −0.01084
Std Dev 0.9268

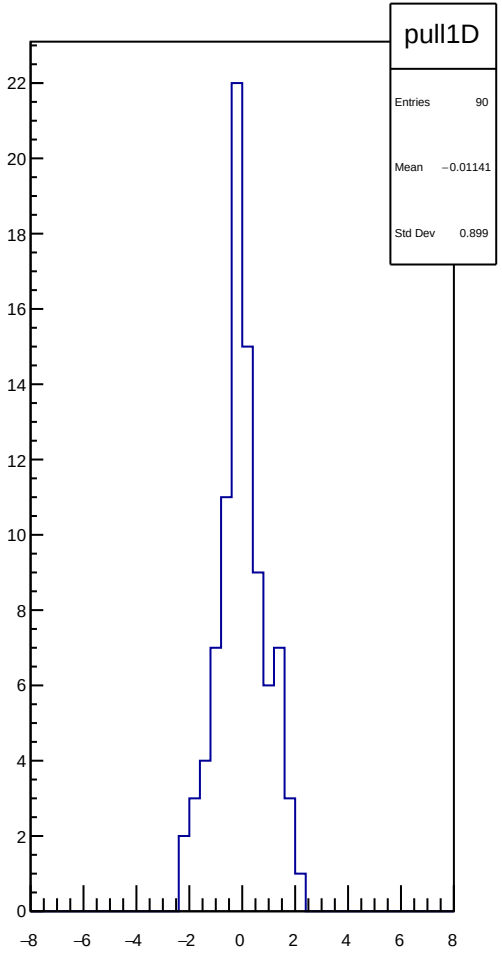

diff_bpm4aY_rms vs run
χ² / ndf 1.714e+04 / 89
p0 6156 ± 4.665
8000
7500
7000
6500
6000
5500

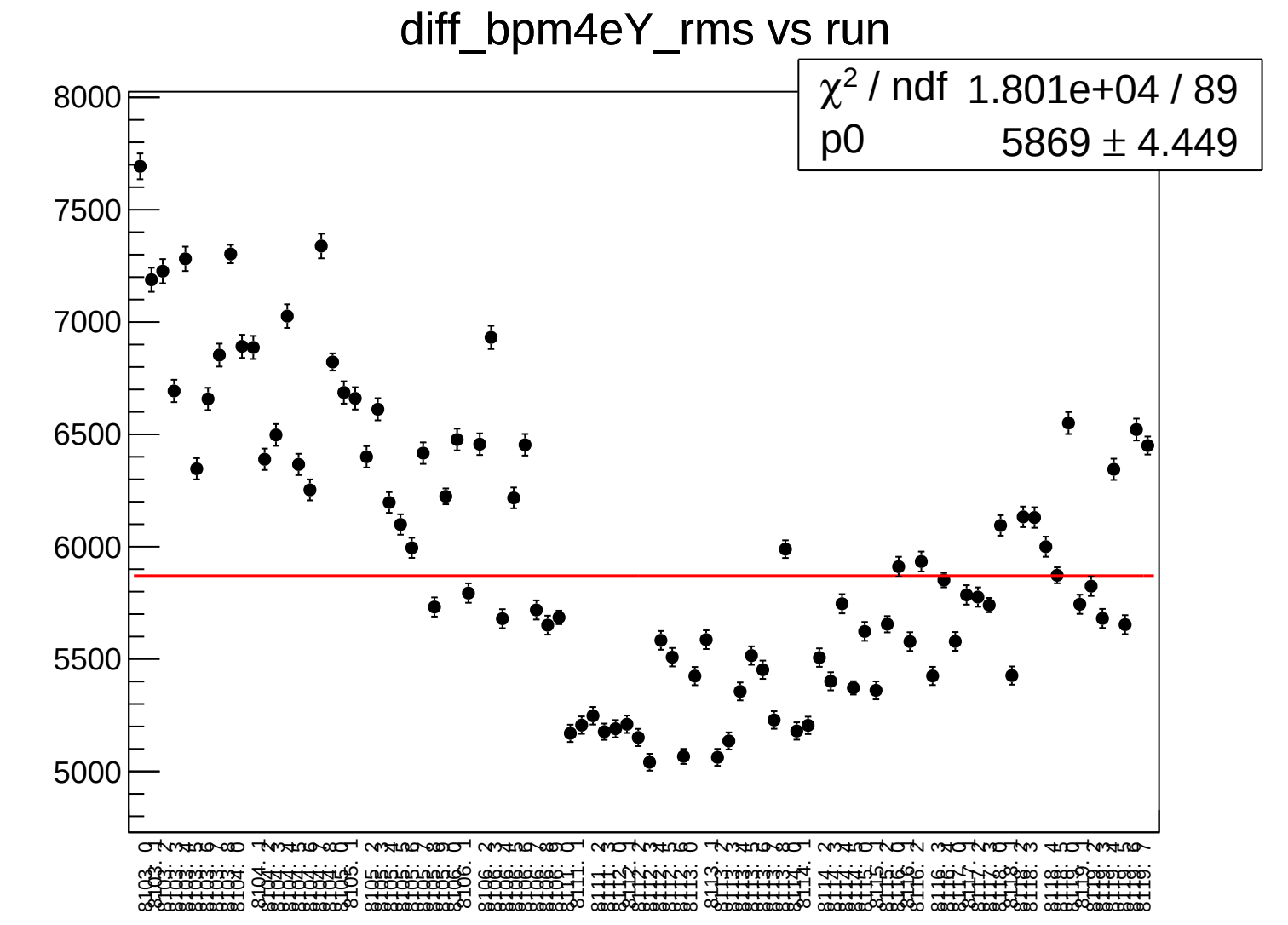

diff_bpm4eX_mean vs run
χ² / ndf 90.03 / 89
p0 −49.89 ± 20.97
pull
Entries 90
Mean 1818
Std Dev 0

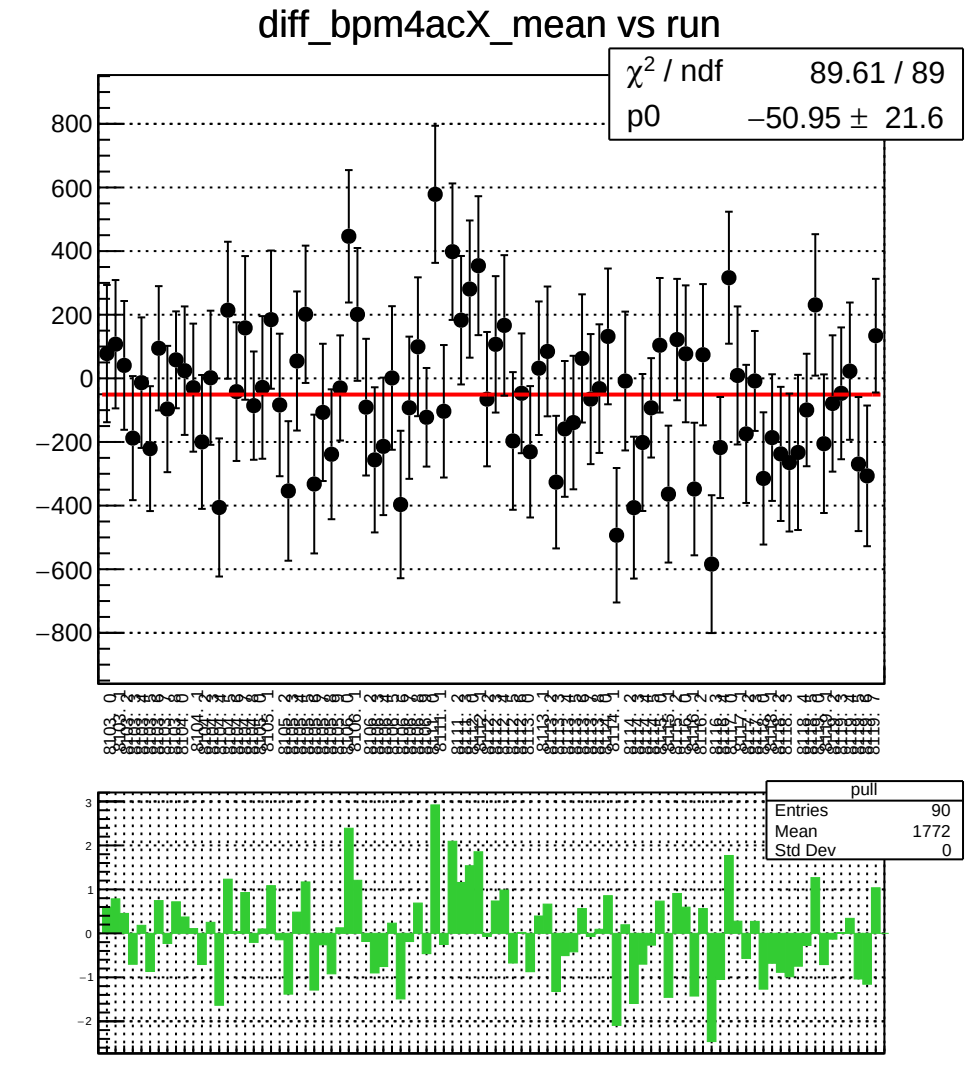

pull1D
Entries 90
Mean −0.002634
Std Dev 1

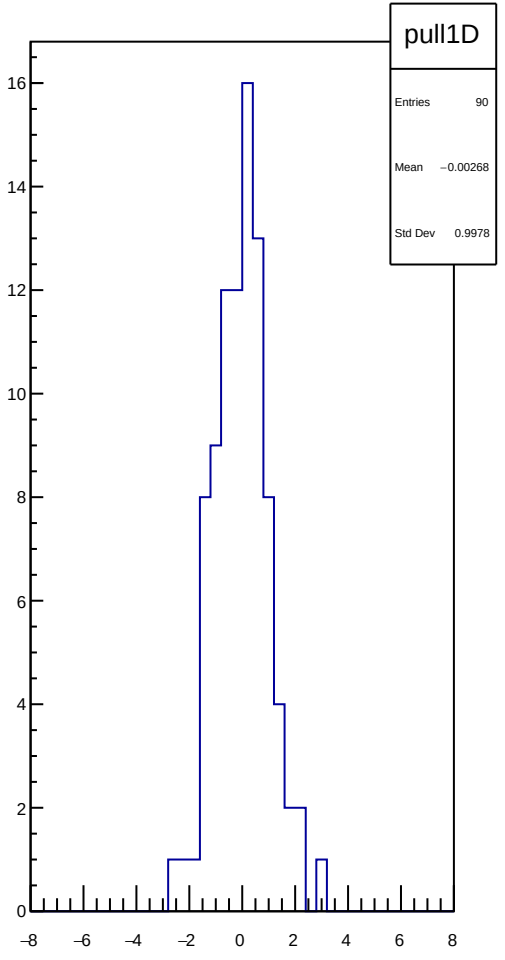

diff_bpm4eX_rms vs run
χ² / ndf 2601 / 89
p0 1.965e+04 ± 14.83
23000
22000
21000
20000
19000
18000

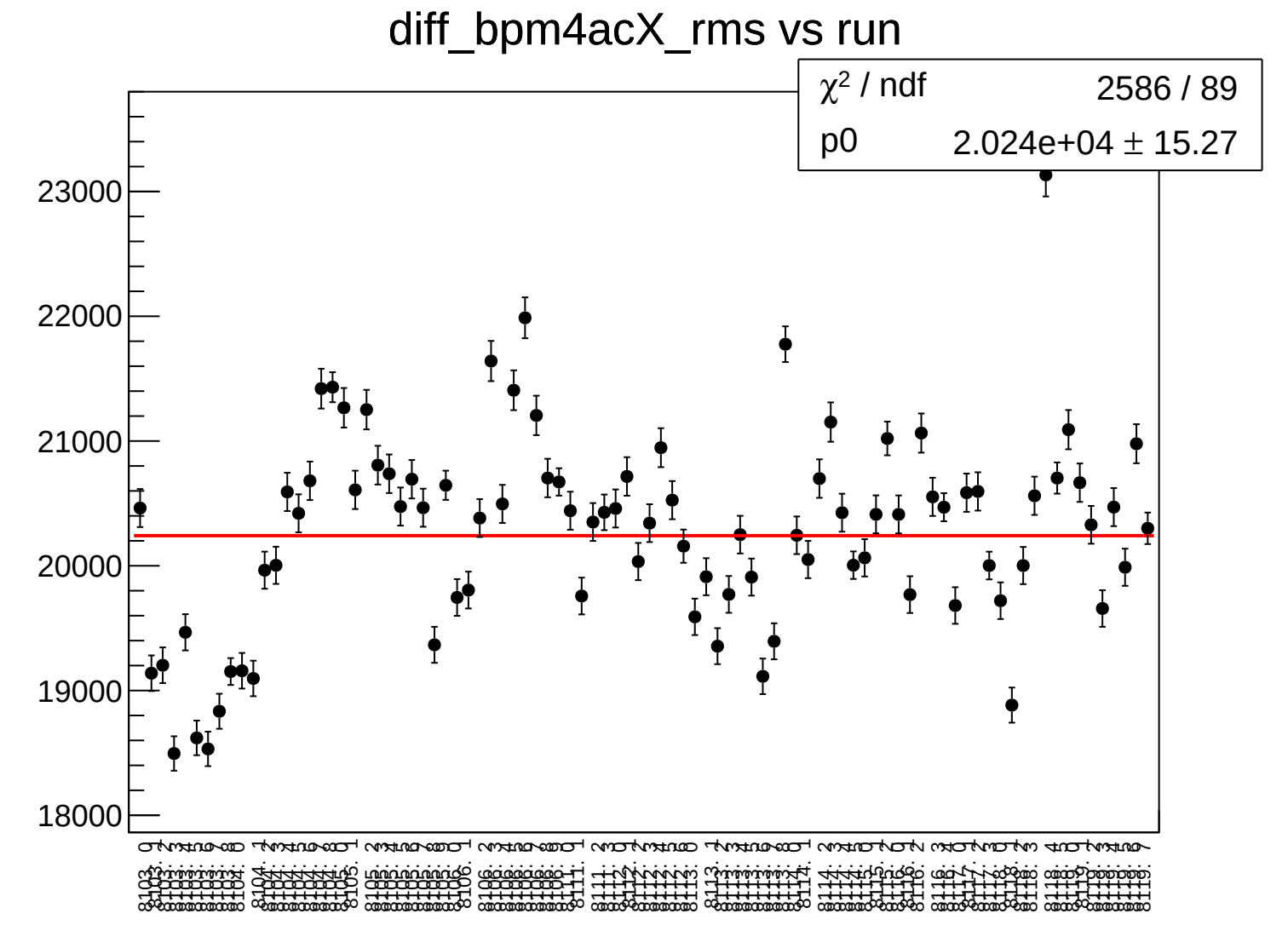

diff_bpm4eY_mean vs run
χ² / ndf 72.75 / 89
p0 −7.882 ± 6.291
pull
Entries 90
Mean 9.025
Std Dev 90.22

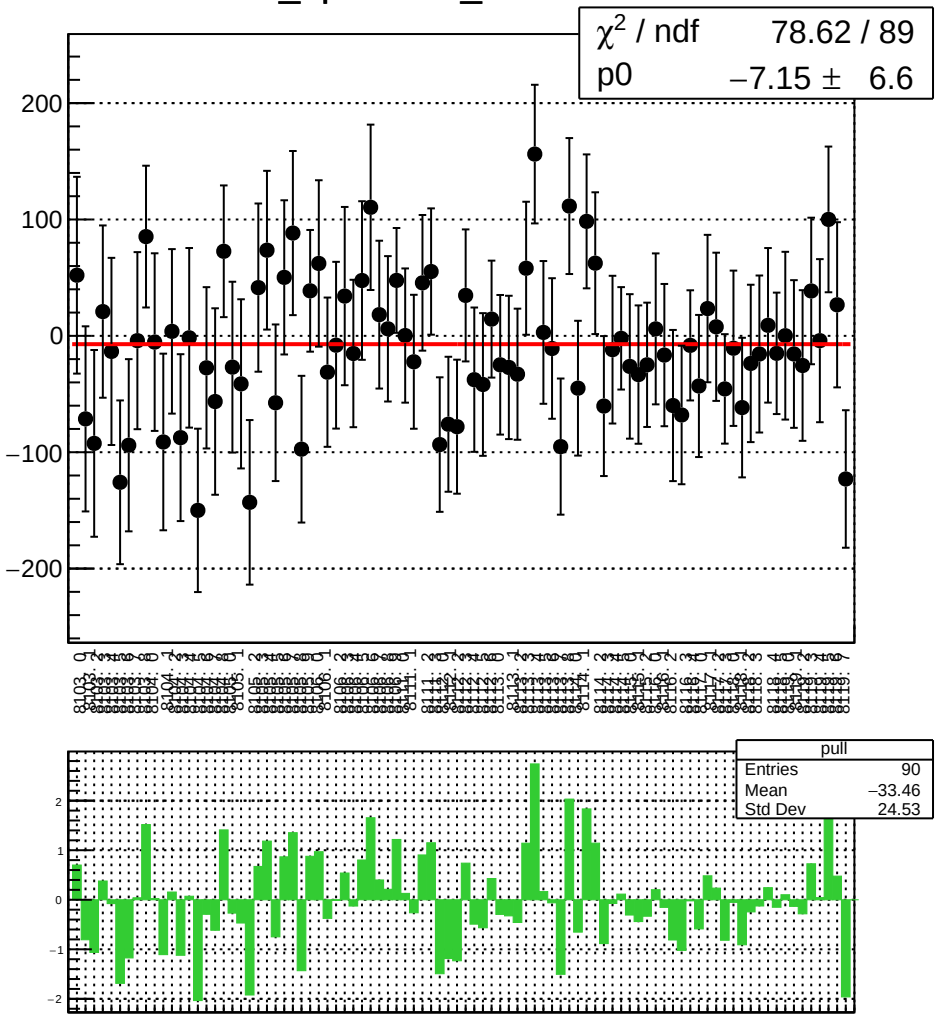

pull1D
Entries 90
Mean −0.01141
Std Dev 0.899

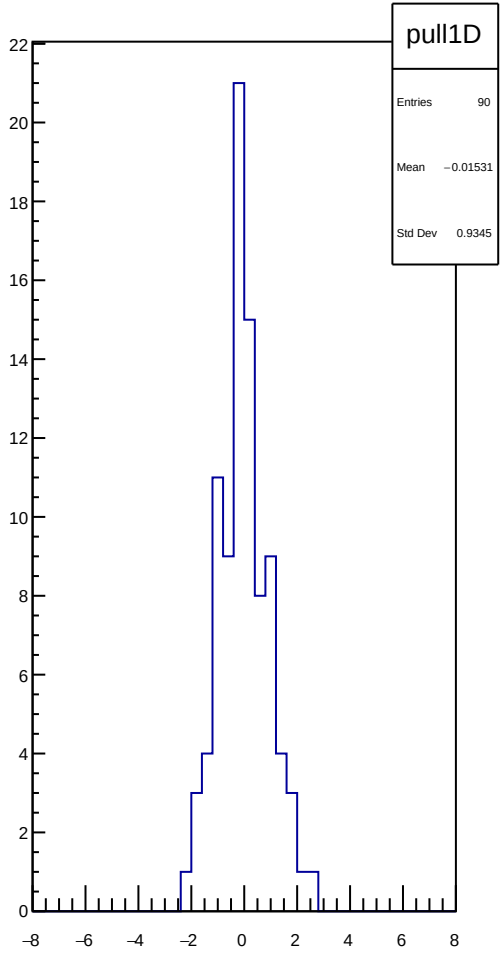

diff_bpm4eY_rms vs run
χ² / ndf 1.801e+04 / 89
p0 5869 ± 4.449
8000
7500
7000
6500
6000
5500
5000

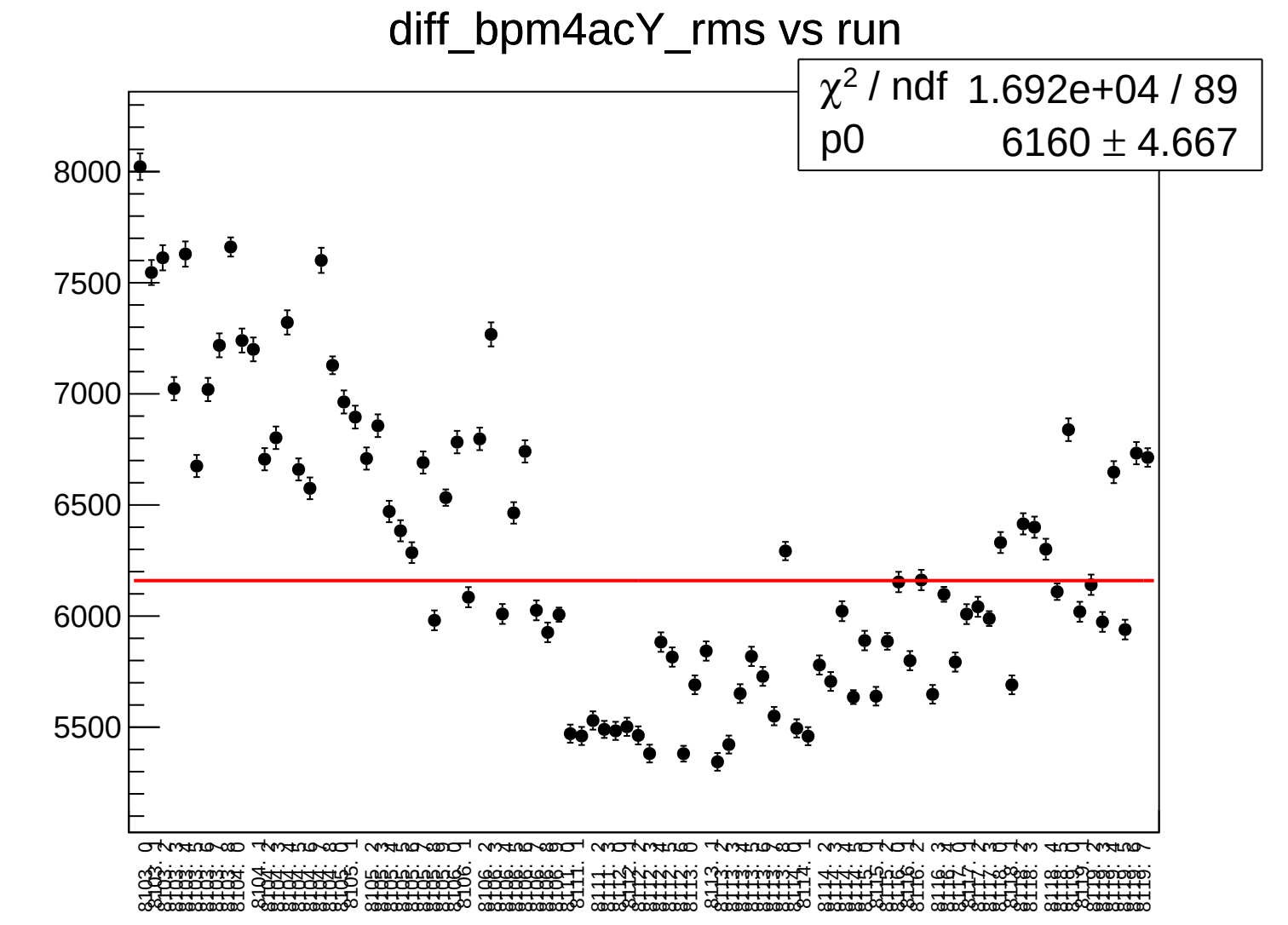

diff_bpm4acX_mean vs run
χ² / ndf 89.61 / 89
p0 −50.95 ± 21.6
pull
Entries 90
Mean 1772
Std Dev 0

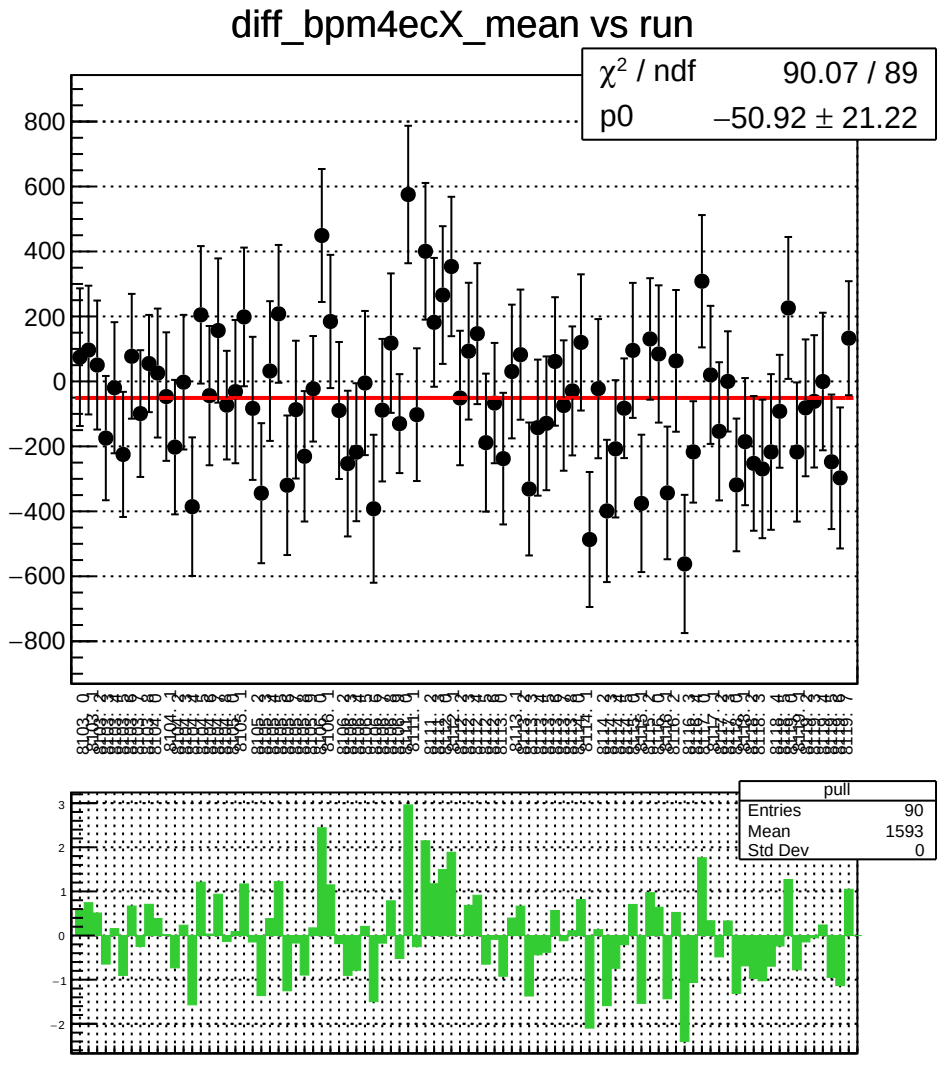

pull1D
Entries 90
Mean −0.00268
Std Dev 0.9978

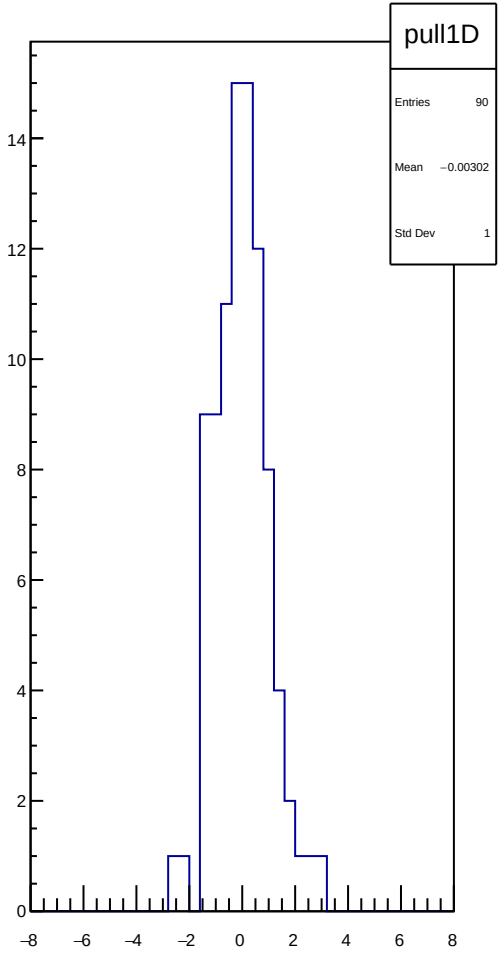

diff_bpm4acX_rms vs run
χ² / ndf 2586 / 89
p0 2.024e+04 ± 15.27
23000
22000
21000
20000
19000
18000

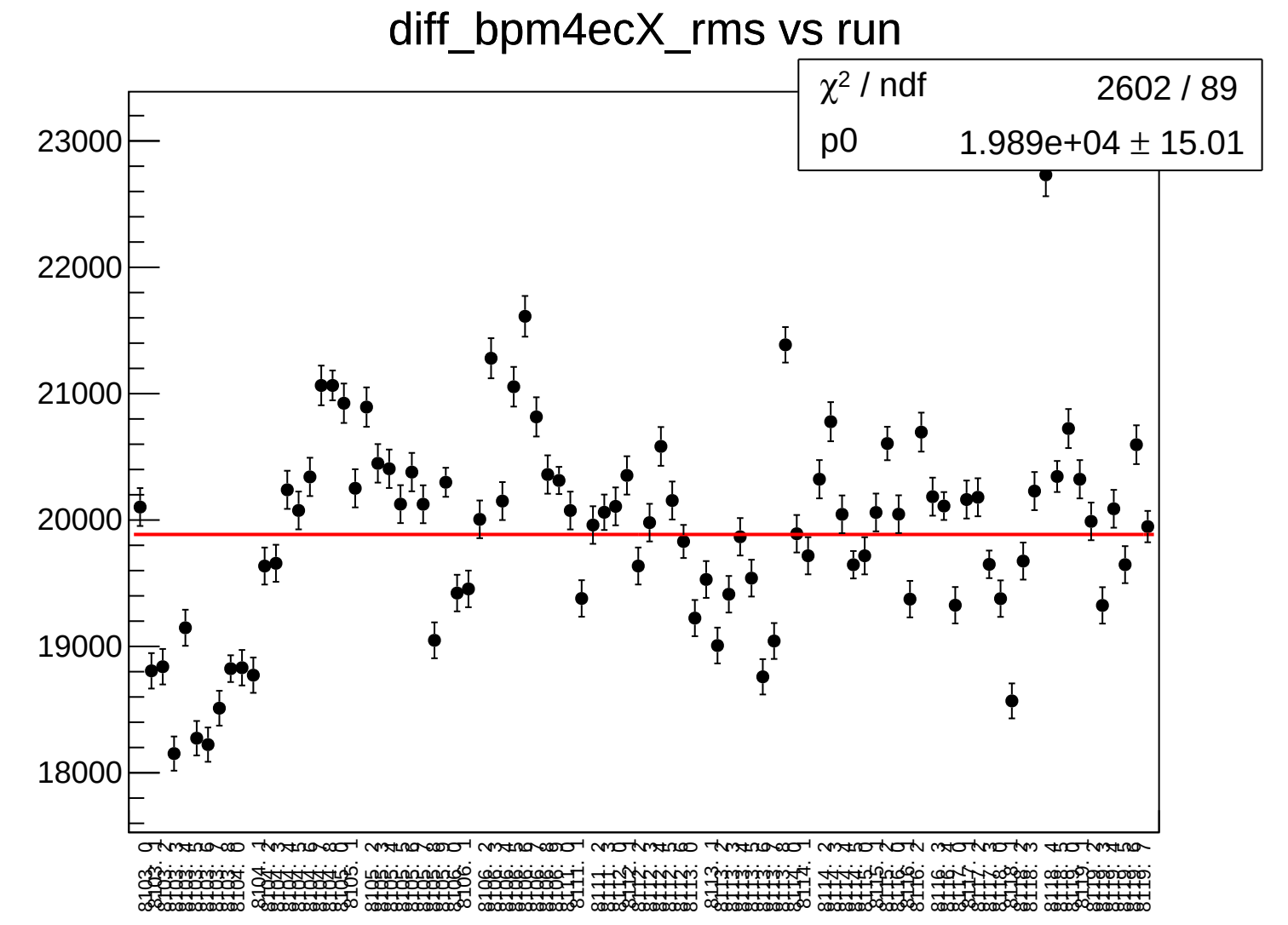

diff_bpm4acY_mean vs run
χ² / ndf 78.62 / 89
p0 −7.15 ± 6.6
200
100
0
−100
−200
pull
Entries 90
Mean −33.46
Std Dev 24.53
2
1
0
−1
−2

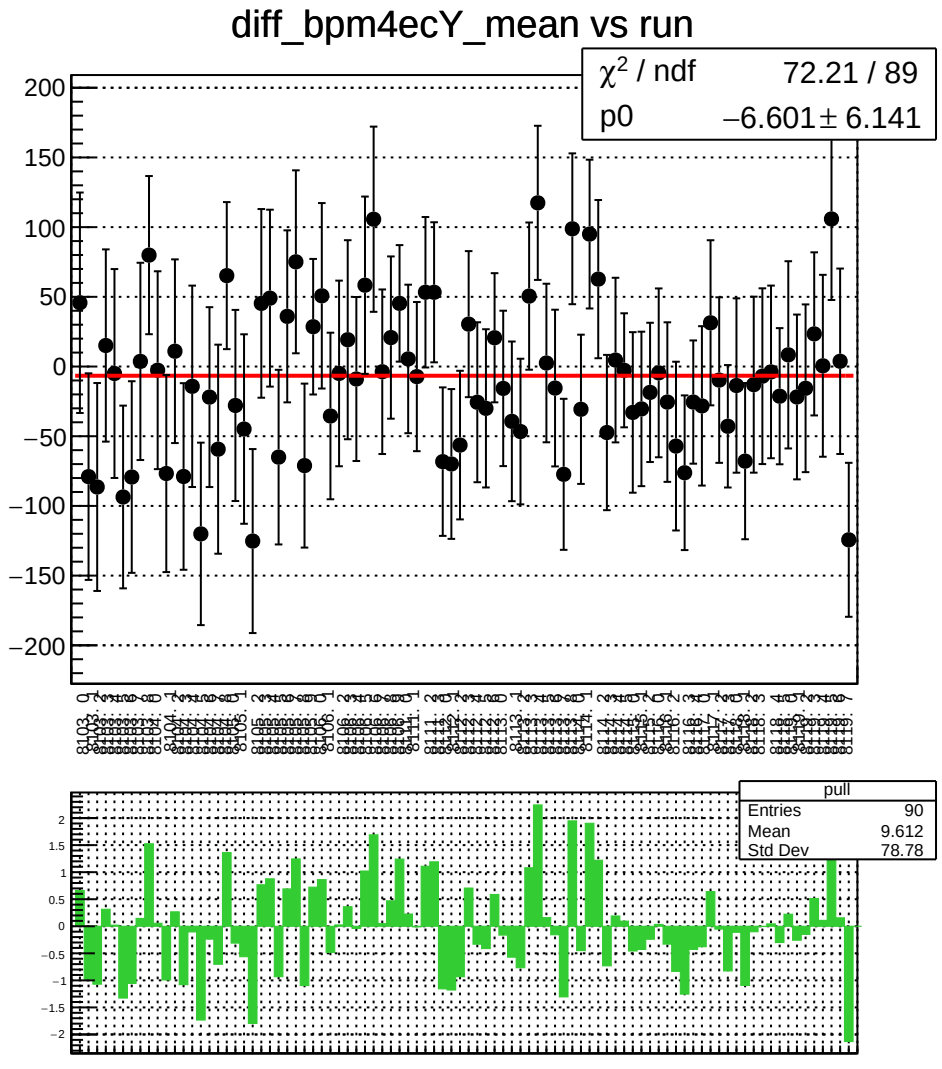

pull1D
Entries 90
Mean −0.01531
Std Dev 0.9345
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

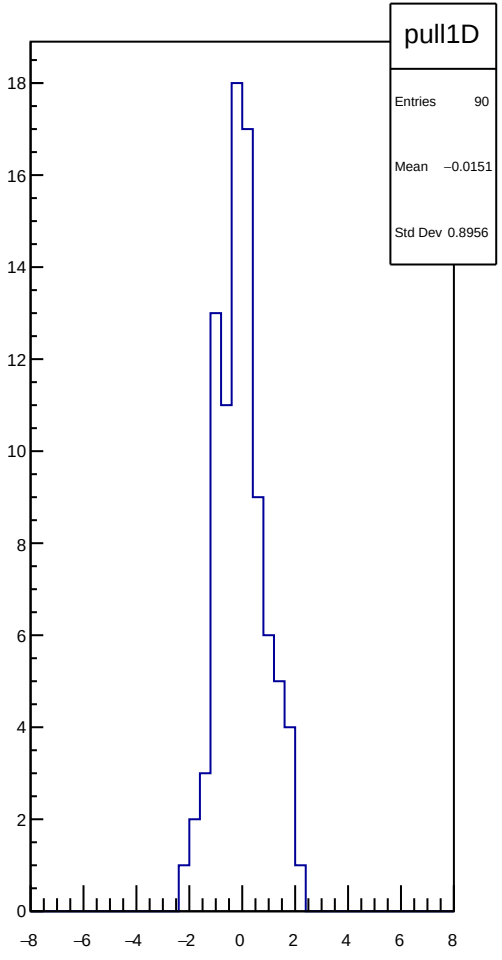

diff_bpm4acY_rms vs run
χ² / ndf 1.692e+04 / 89
p0 6160 ± 4.667
8000
7500
7000
6500
6000
5500

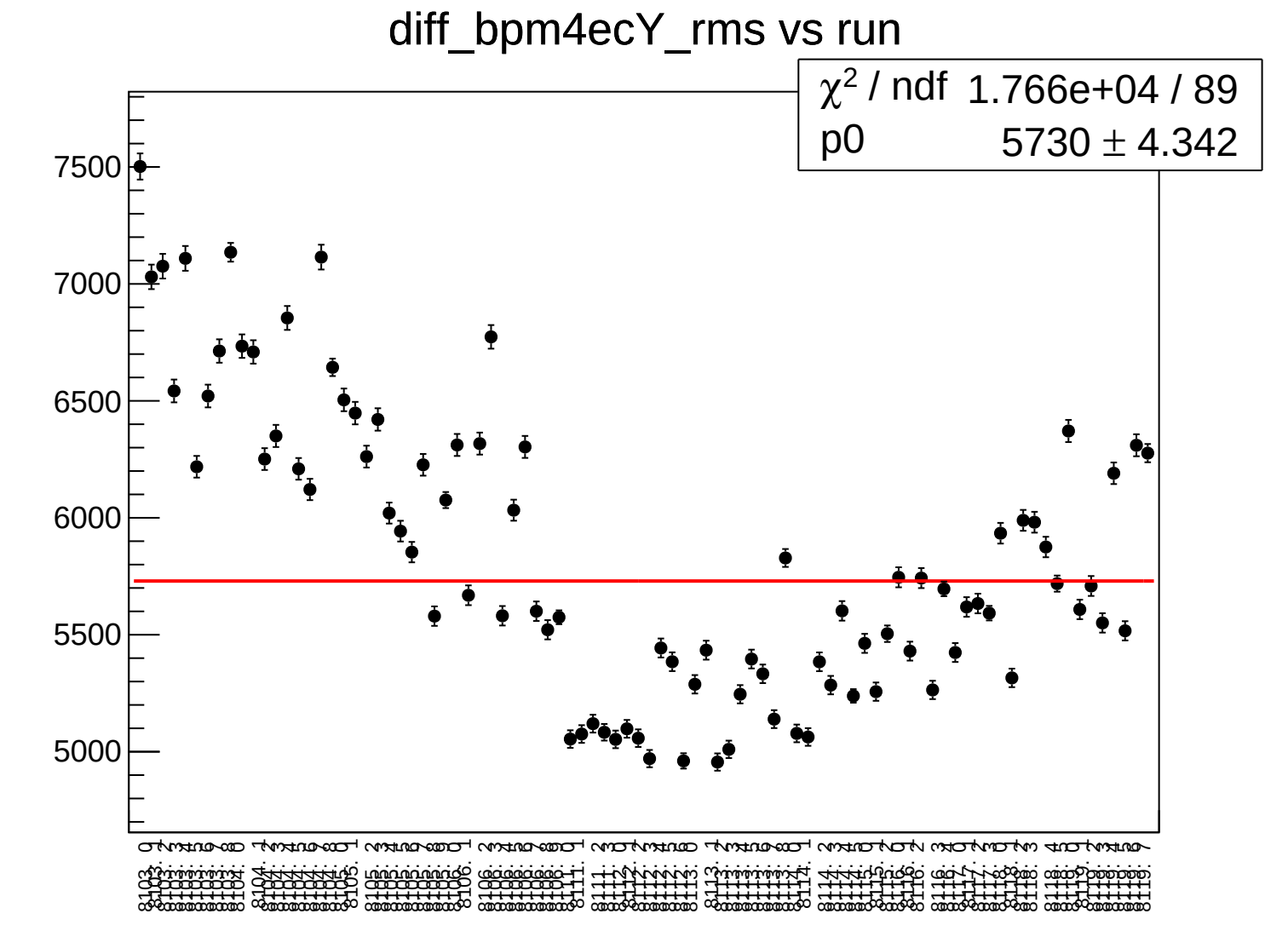

diff_bpm4ecX_mean vs run
χ² / ndf 90.07 / 89
p0 −50.92 ± 21.22
pull
Entries 90
Mean 1593
Std Dev 0

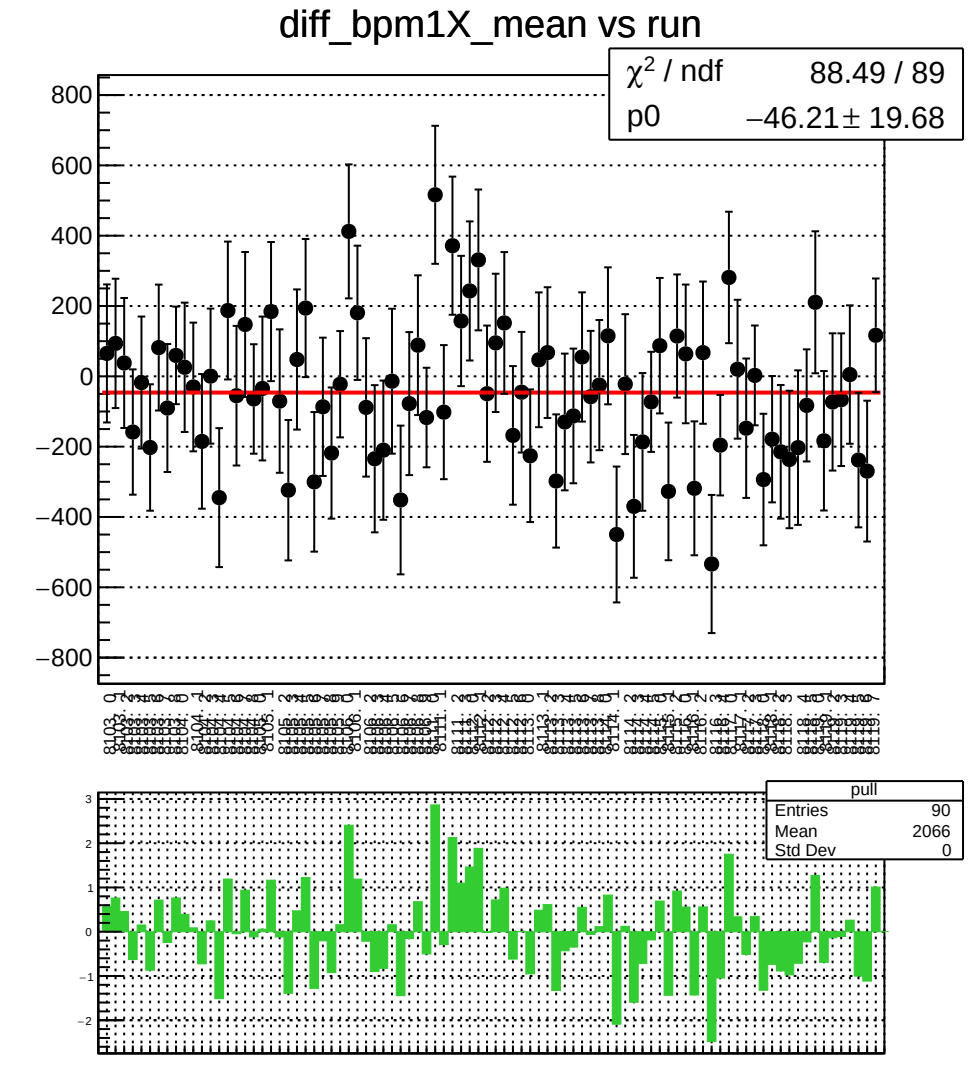

pull1D
Entries 90
Mean −0.00302
Std Dev 1

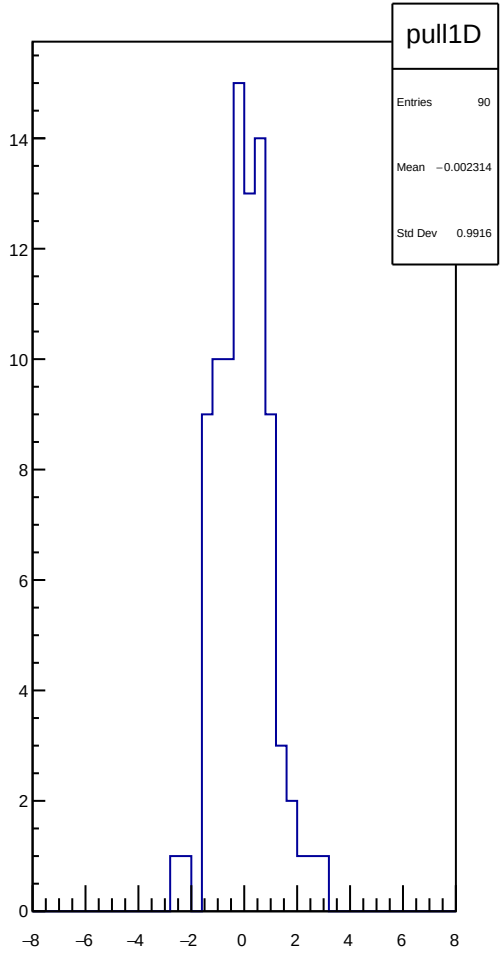

diff_bpm4ecX_rms vs run
χ² / ndf 2602 / 89
p0 1.989e+04 ± 15.01
23000
22000
21000
20000
19000
18000

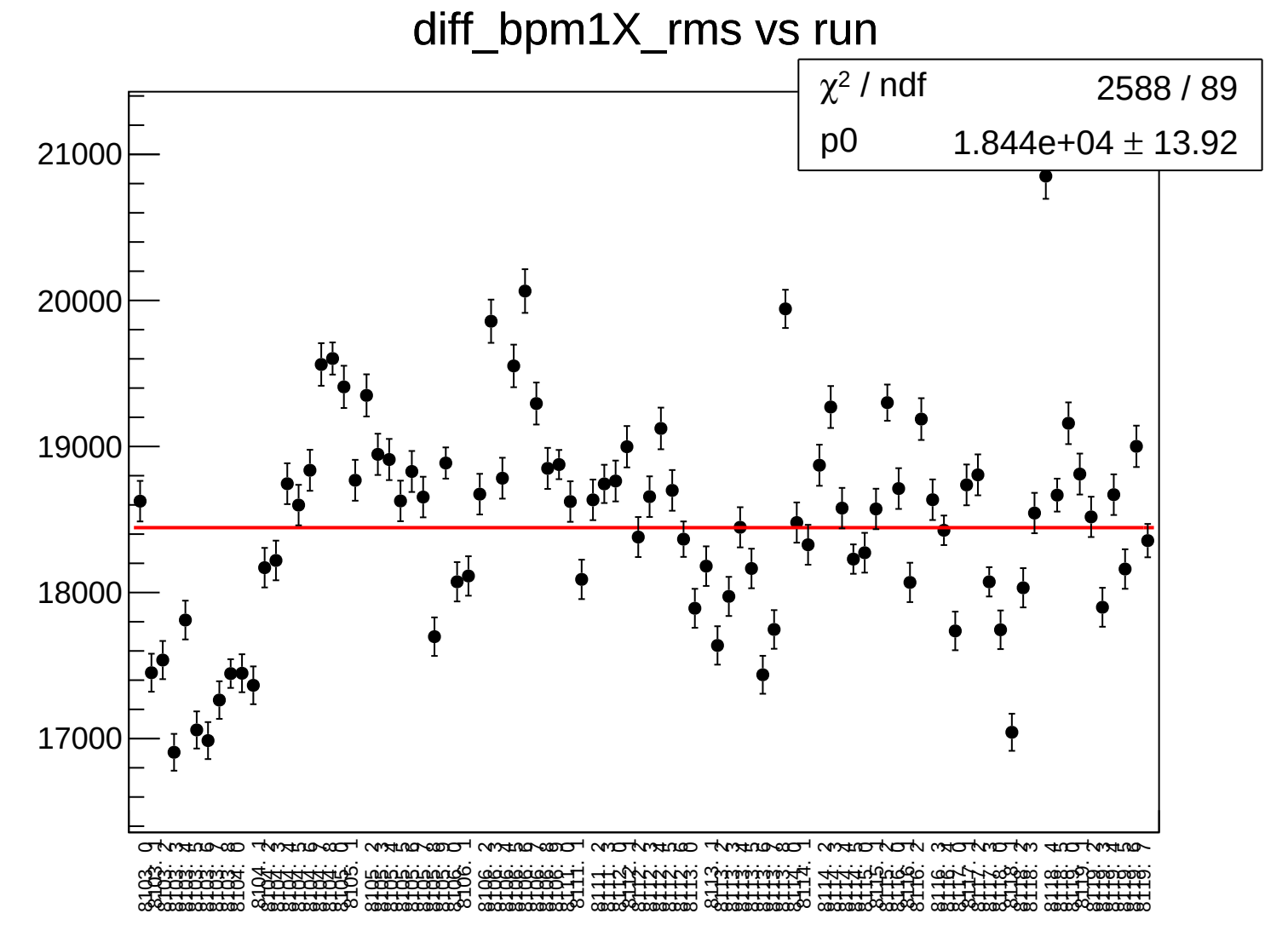

diff_bpm4ecY_mean vs run
χ² / ndf 72.21 / 89
p0 −6.601 ± 6.141
pull
Entries 90
Mean 9.612
Std Dev 78.78

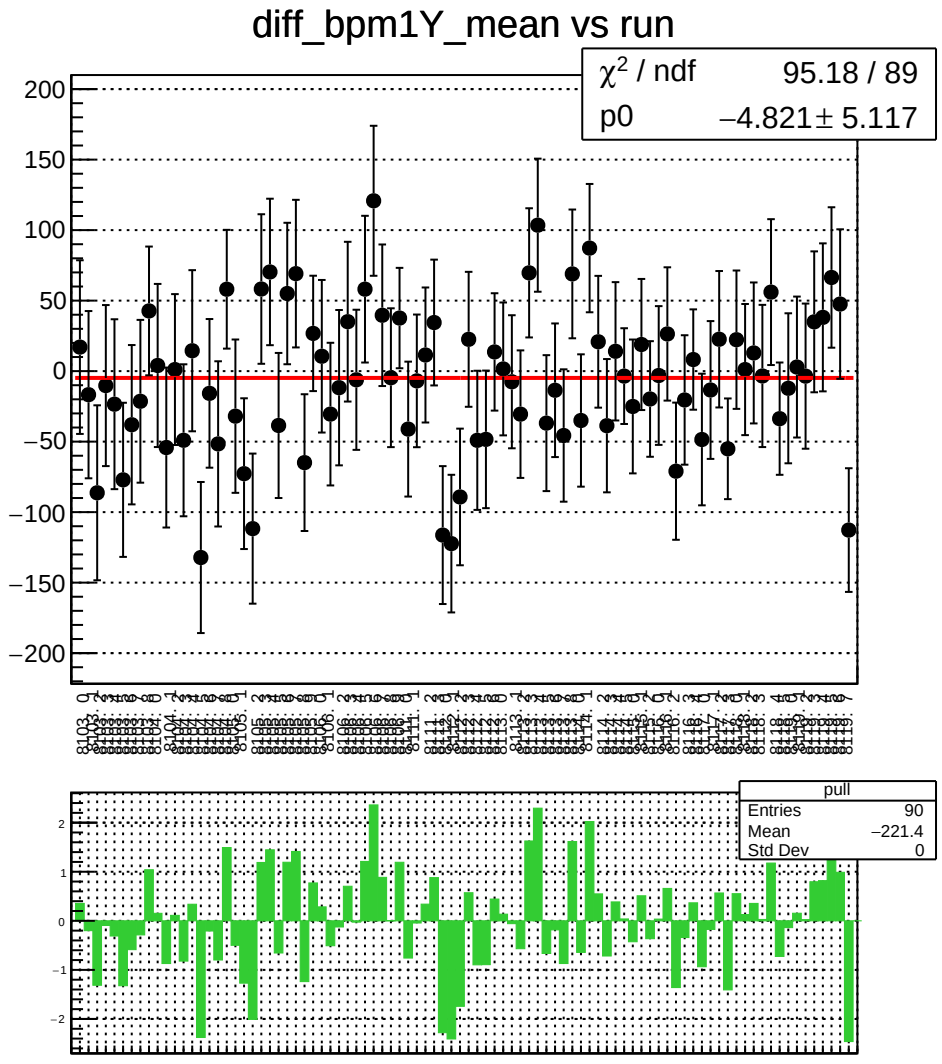

pull1D
Entries 90
Mean −0.0151
Std Dev 0.8956

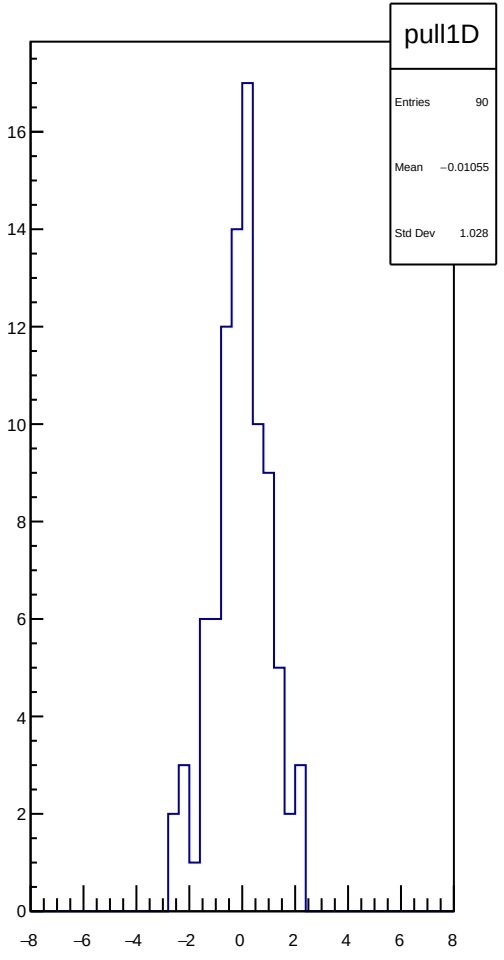

diff_bpm4ecY_rms vs run
χ² / ndf 1.766e+04 / 89
p0 5730 ± 4.342
7500
7000
6500
6000
5500
5000

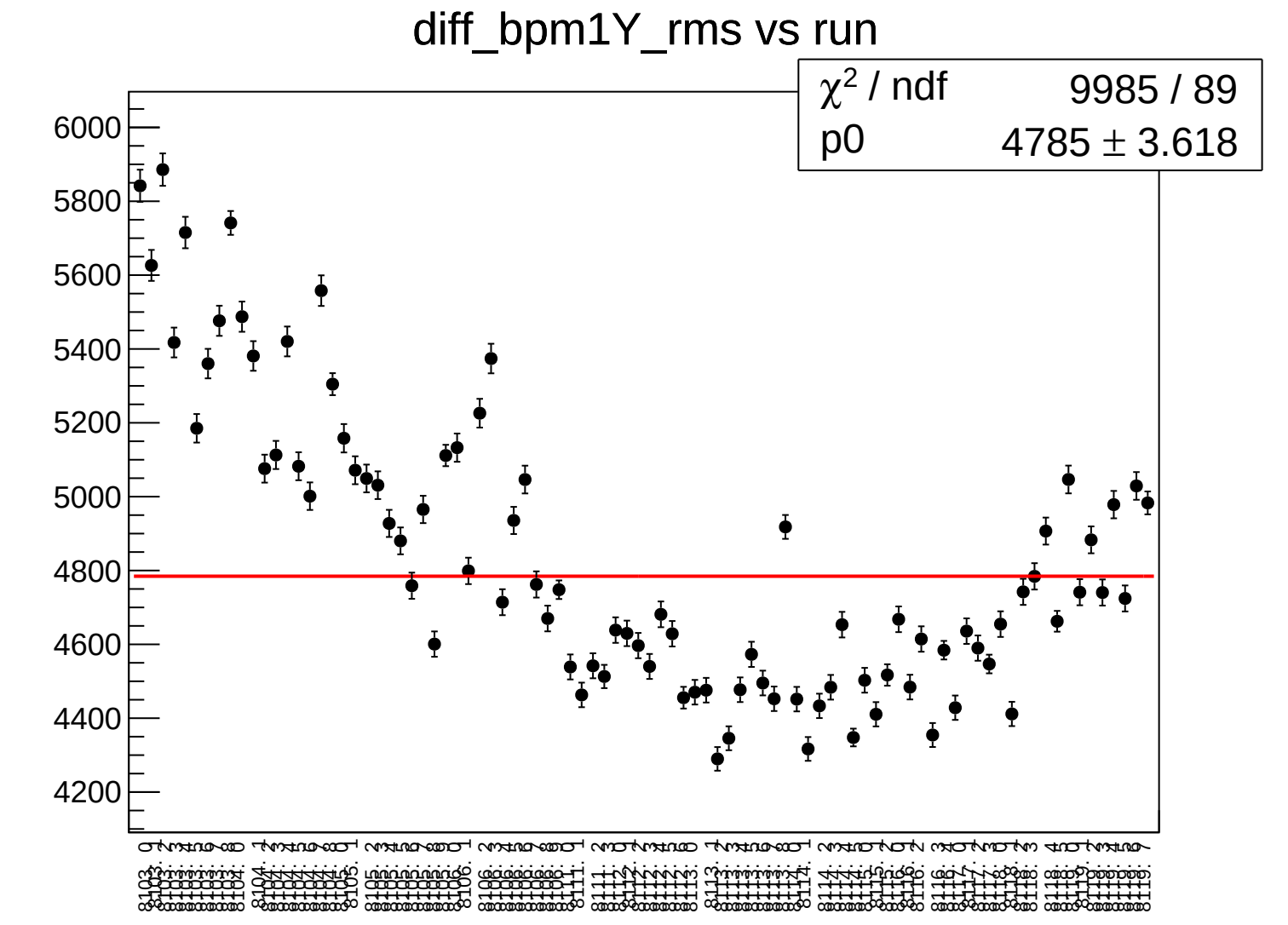

diff_bpm1X_mean vs run
χ² / ndf 88.49 / 89
p0 −46.21 ± 19.68
pull
Entries 90
Mean 2066
Std Dev 0

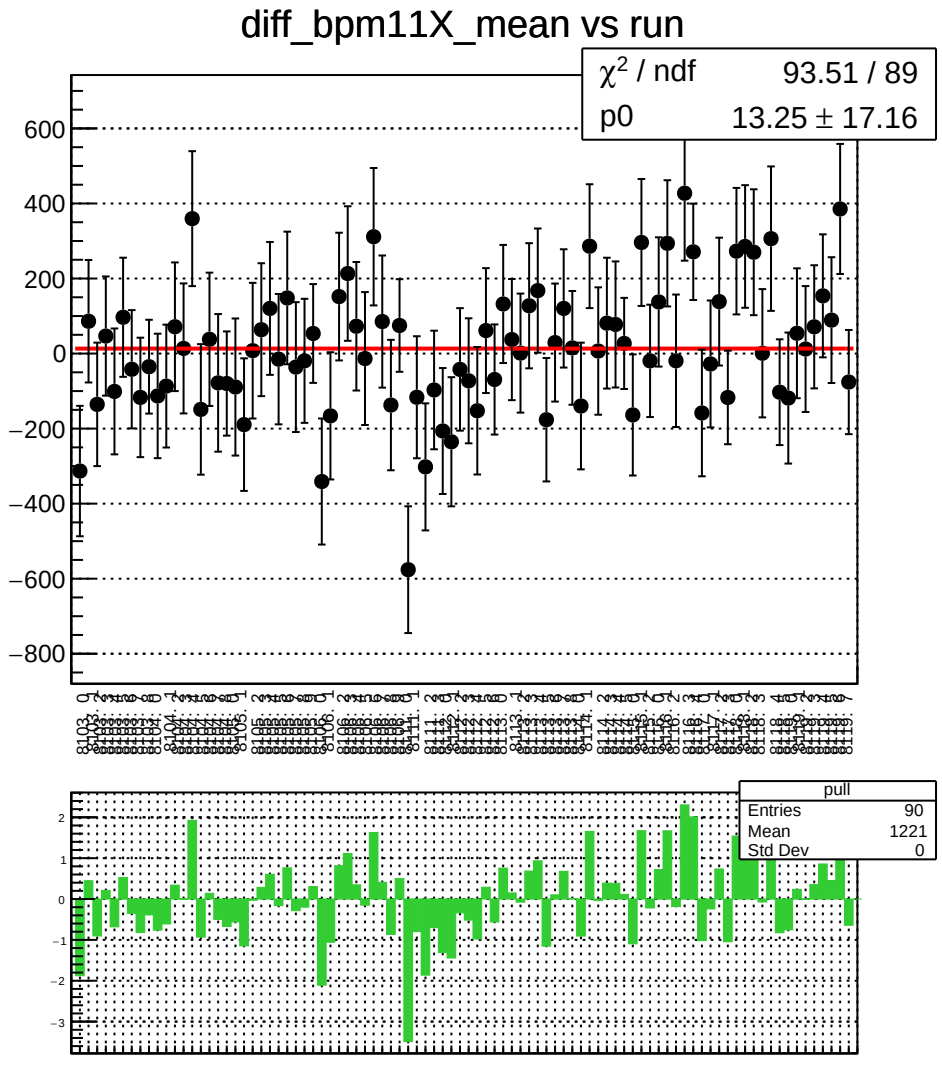

pull1D
Entries 90
Mean −0.002314
Std Dev 0.9916

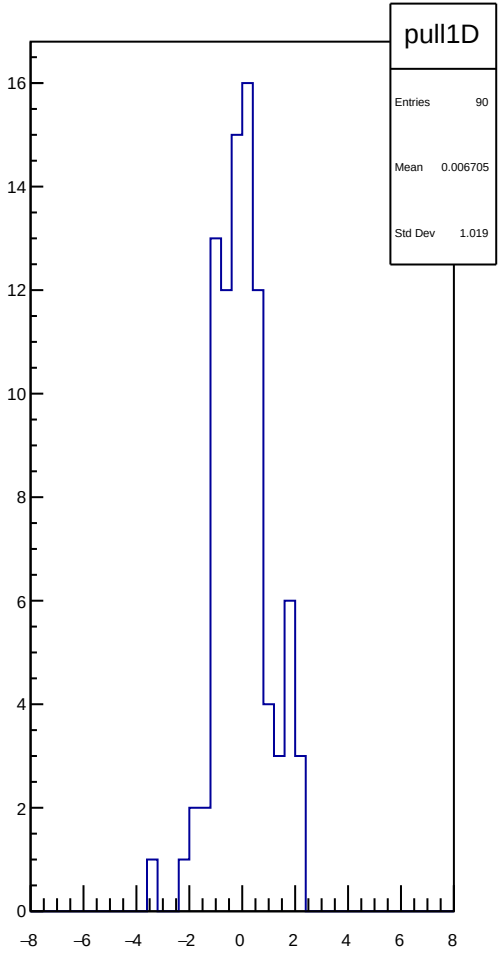

diff_bpm1X_rms vs run
χ² / ndf 2588 / 89
p0 1.844e+04 ± 13.92
21000
20000
19000
18000
17000

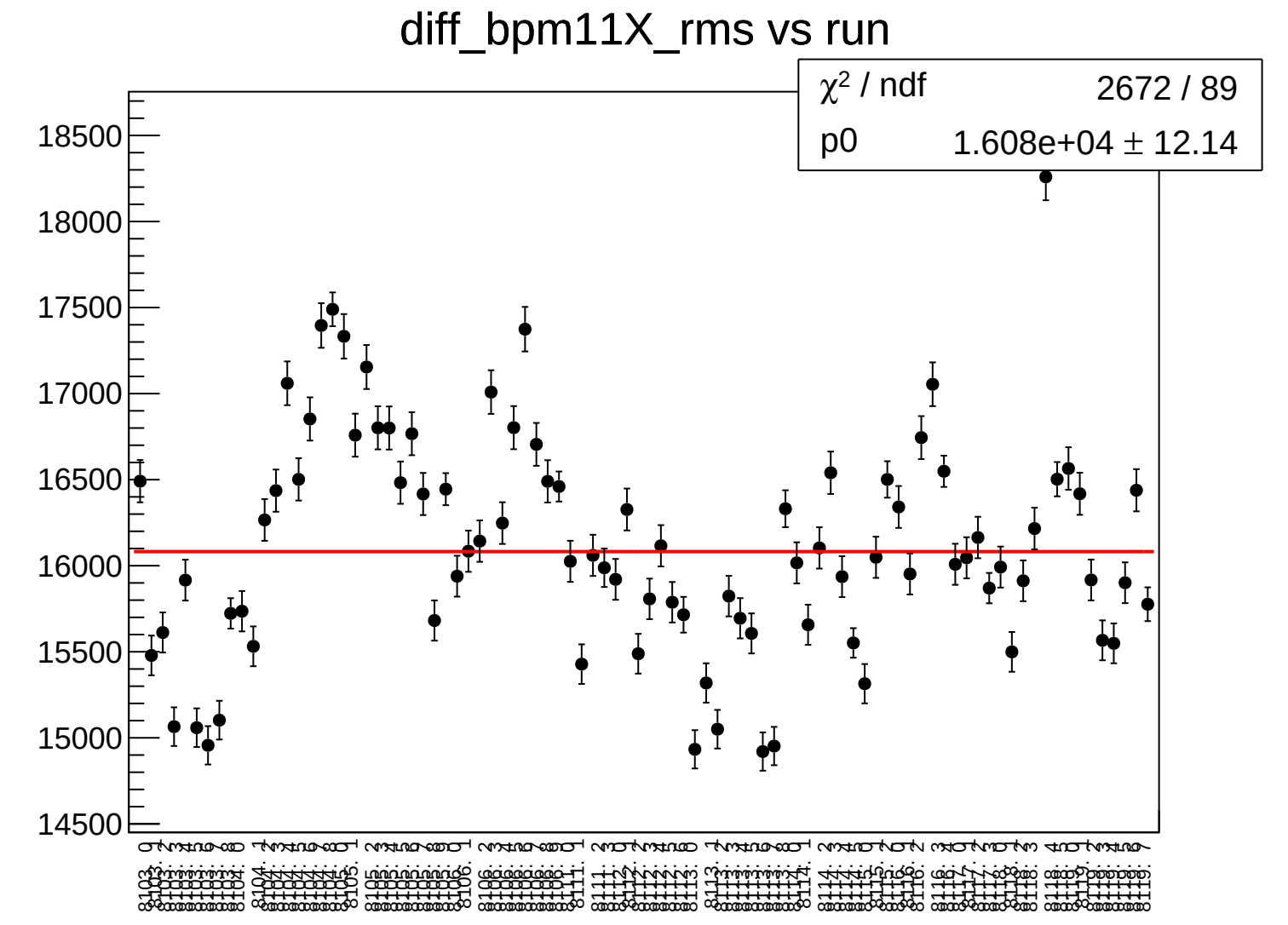

diff_bpm1Y_mean vs run
χ² / ndf 95.18 / 89
p0 −4.821 ± 5.117
pull
Entries 90
Mean −221.4
Std Dev 0

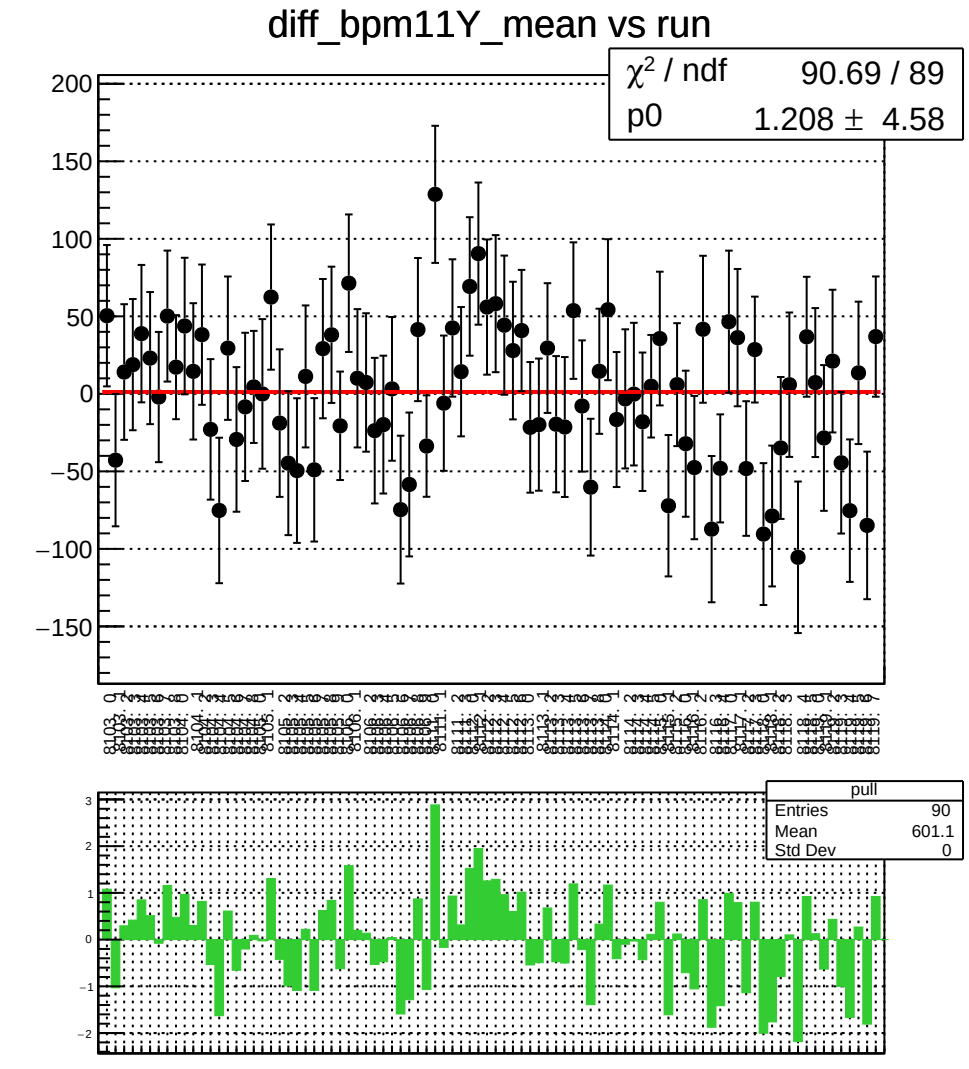

pull1D
Entries 90
Mean −0.01055
Std Dev 1.028

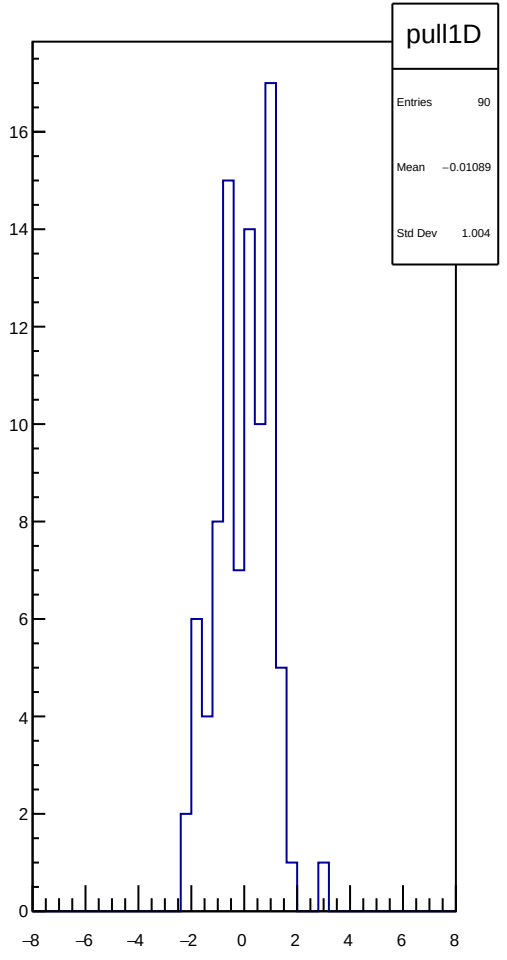

diff_bpm1Y_rms vs run
χ² / ndf 9985 / 89
p0 4785 ± 3.618
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

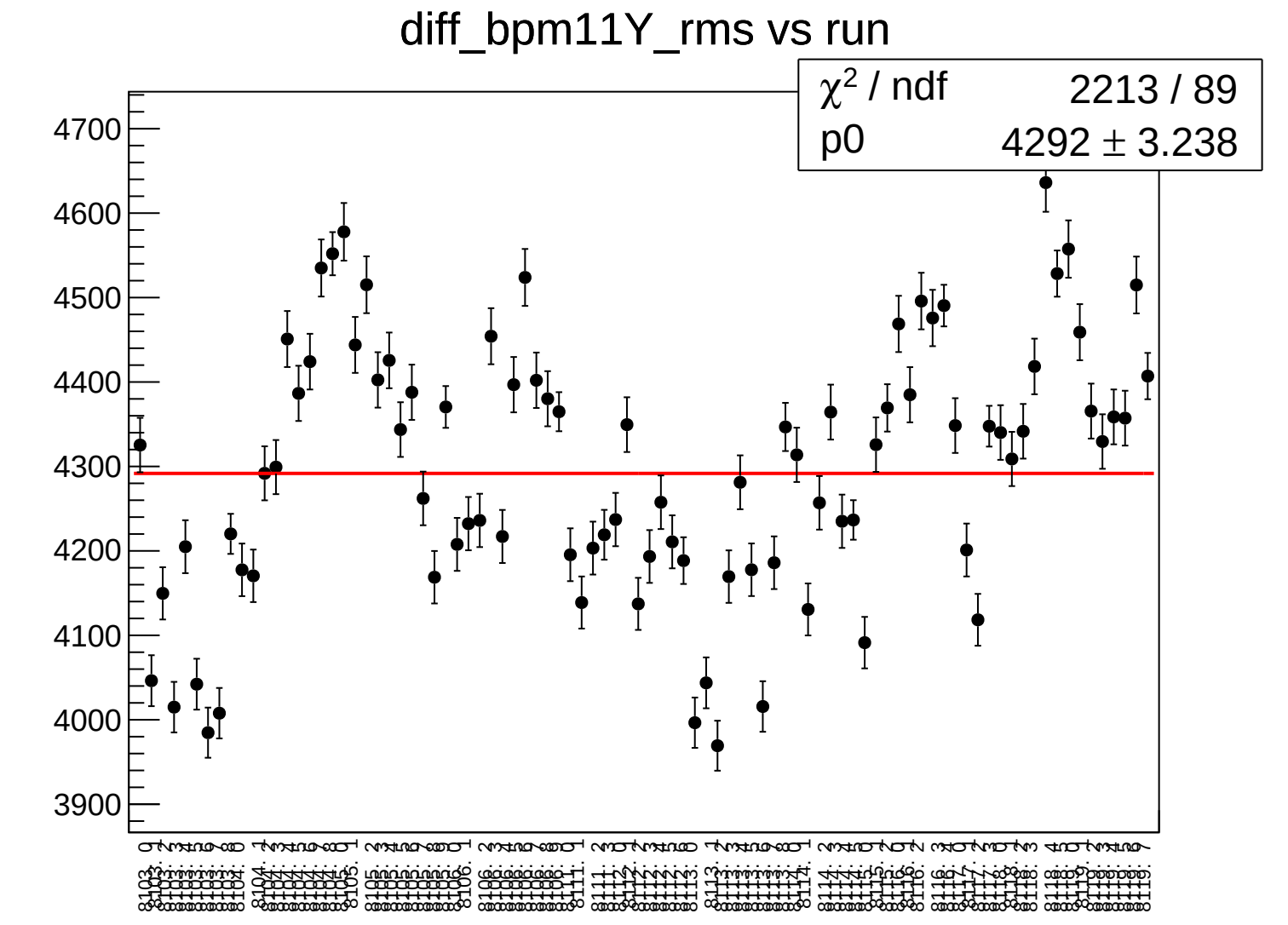

diff_bpm11X_mean vs run
χ^2 / ndf 93.51 / 89
p0 13.25 ± 17.16
pull
Entries 90
Mean 1221
Std Dev 0

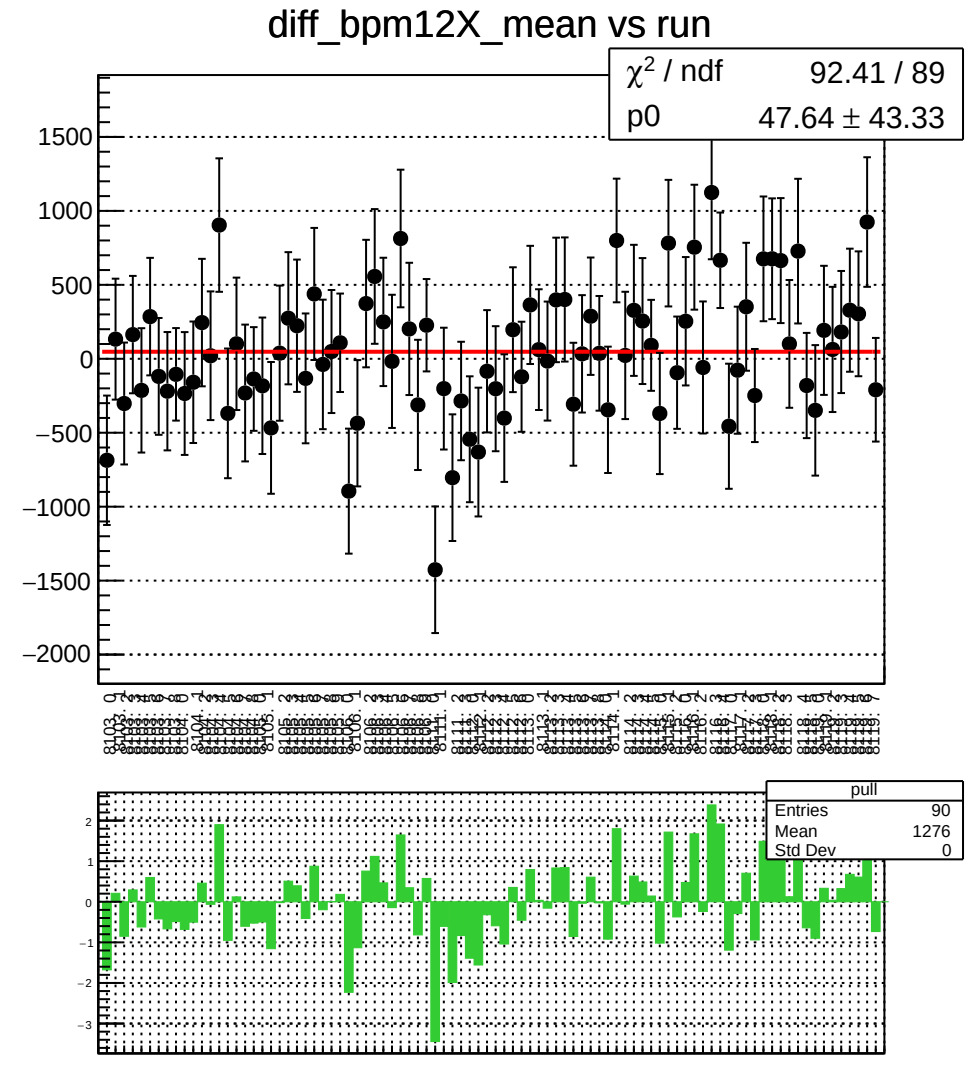

pull1D
Entries 90
Mean 0.006705
Std Dev 1.019

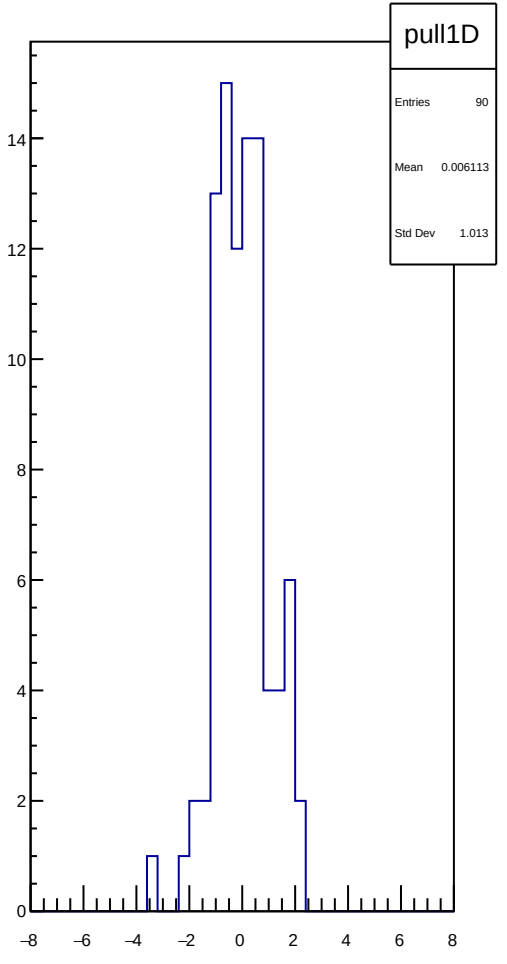

diff_bpm11X_rms vs run
χ² / ndf 2672 / 89
p0 1.608e+04 ± 12.14
18500
18000
17500
17000
16500
16000
15500
15000
14500

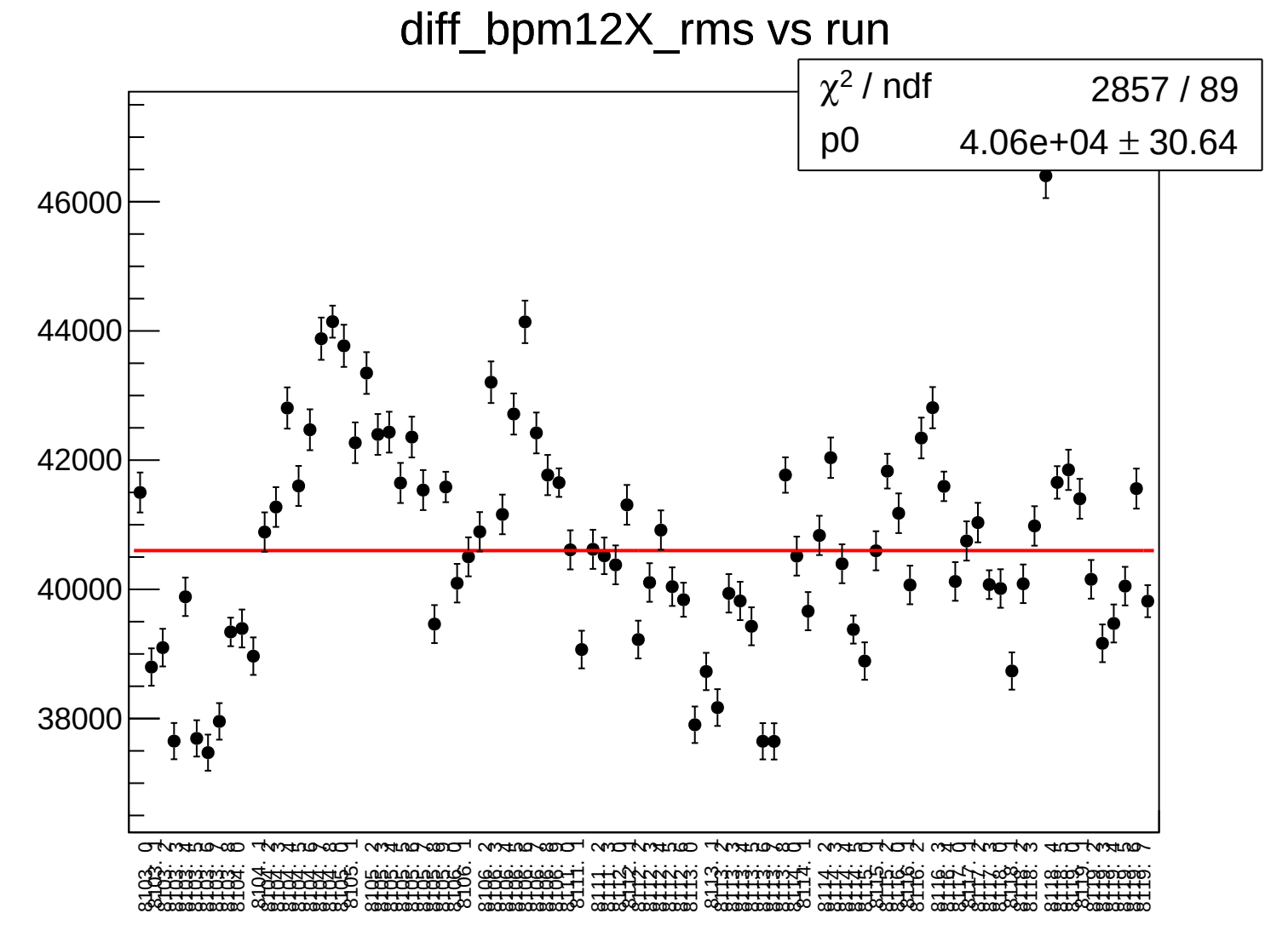

diff_bpm11Y_mean vs run
χ² / ndf 90.69 / 89
p0 1.208 ± 4.58
pull
Entries 90
Mean 601.1
Std Dev 0

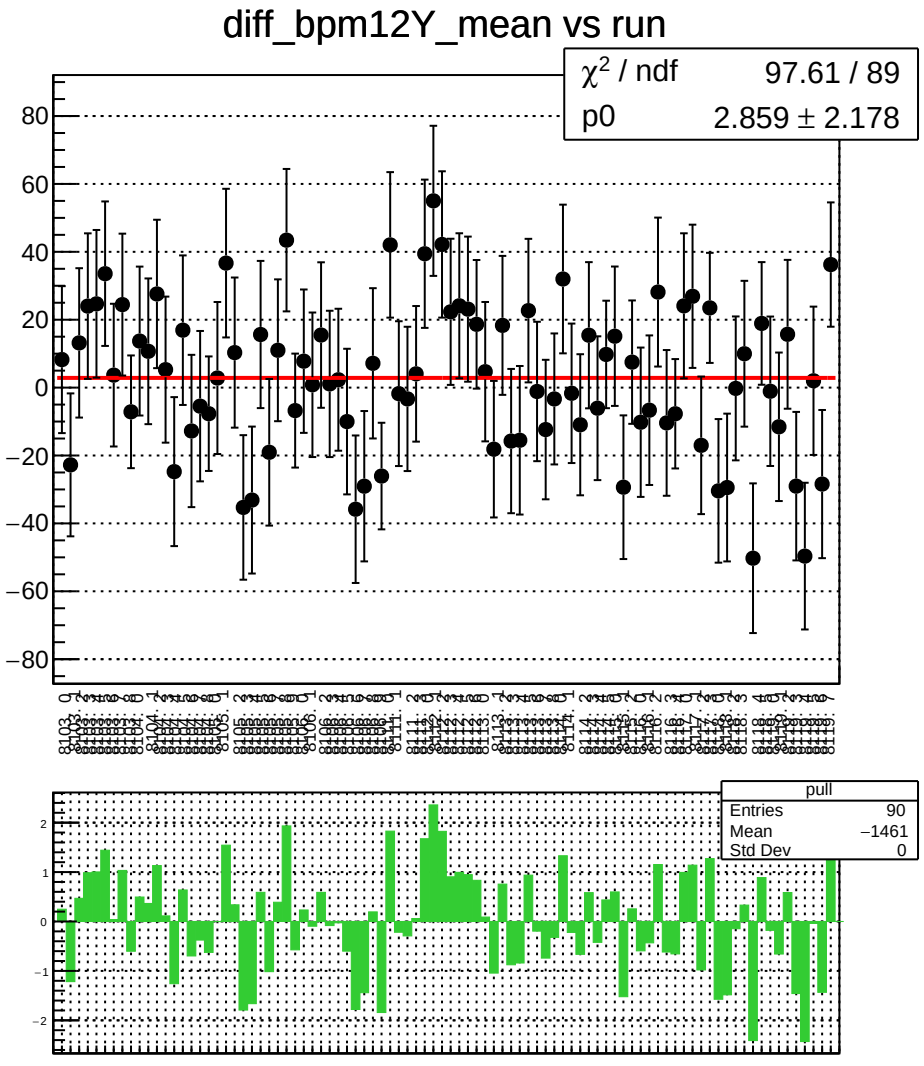

pull1D
Entries 90
Mean −0.01089
Std Dev 1.004

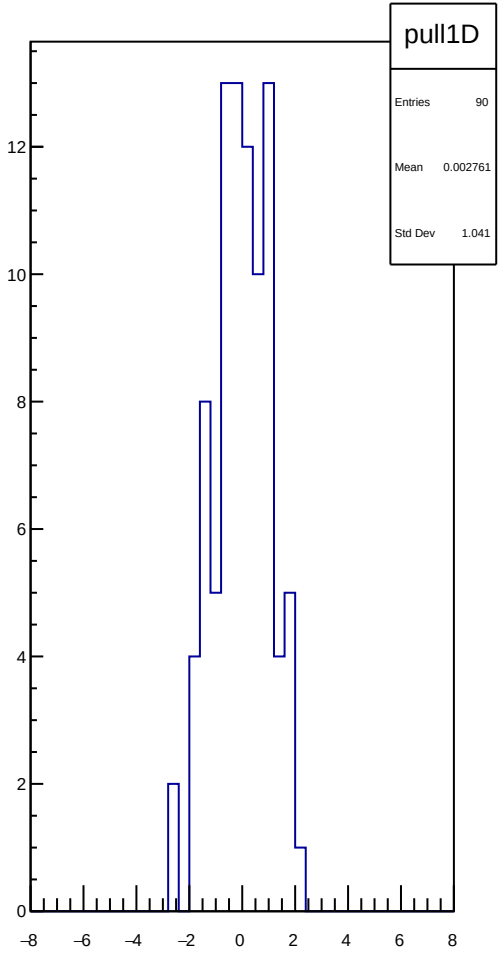

diff_bpm11Y_rms vs run
χ² / ndf 2213 / 89
p0 4292 ± 3.238
4700
4600
4500
4400
4300
4200
4100
4000
3900

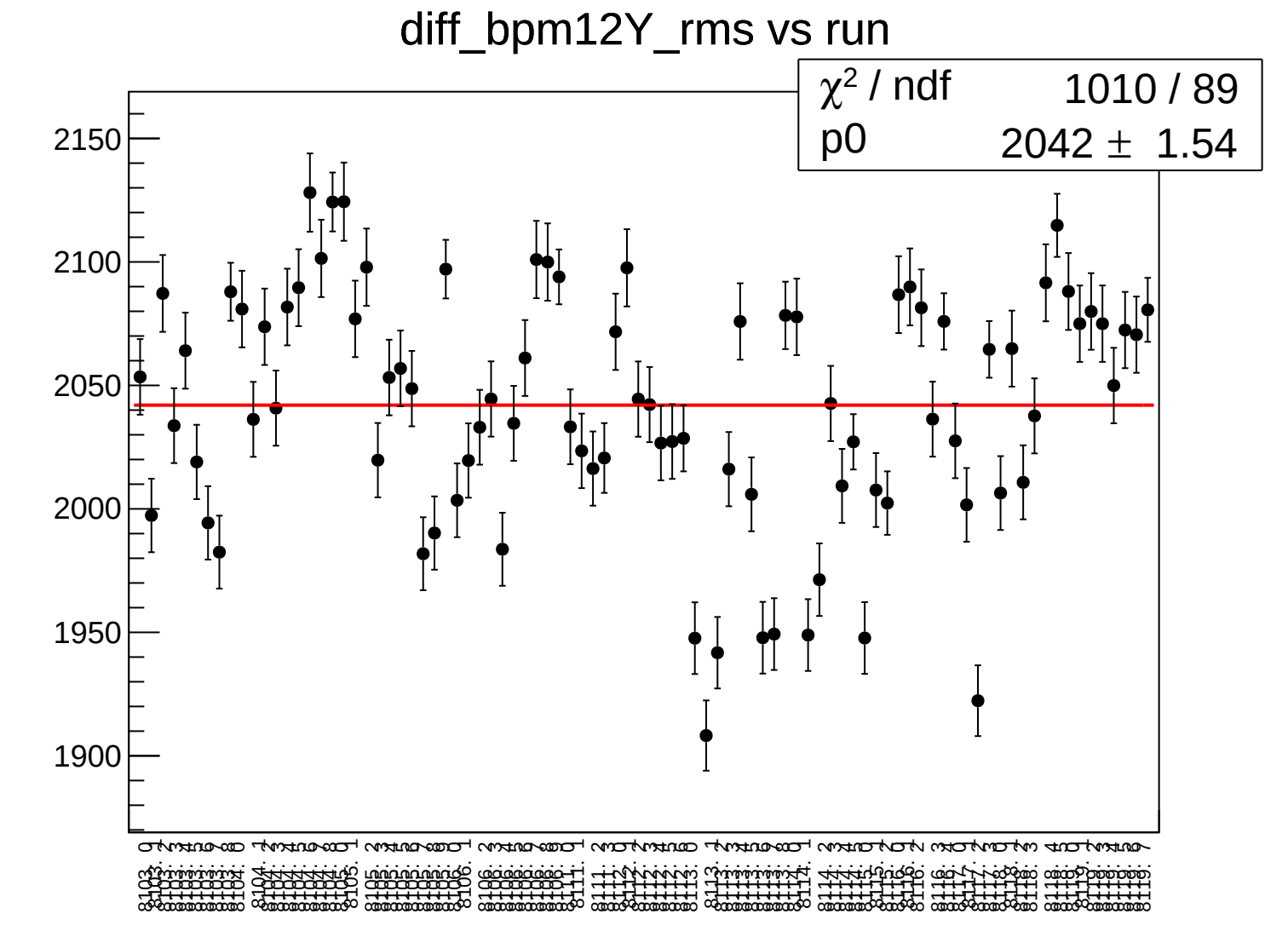

diff_bpm12X_mean vs run
χ² / ndf 92.41 / 89
p0 47.64 ± 43.33
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 90
Mean 1276
Std Dev 0
2
1
0
−1
−2
−3

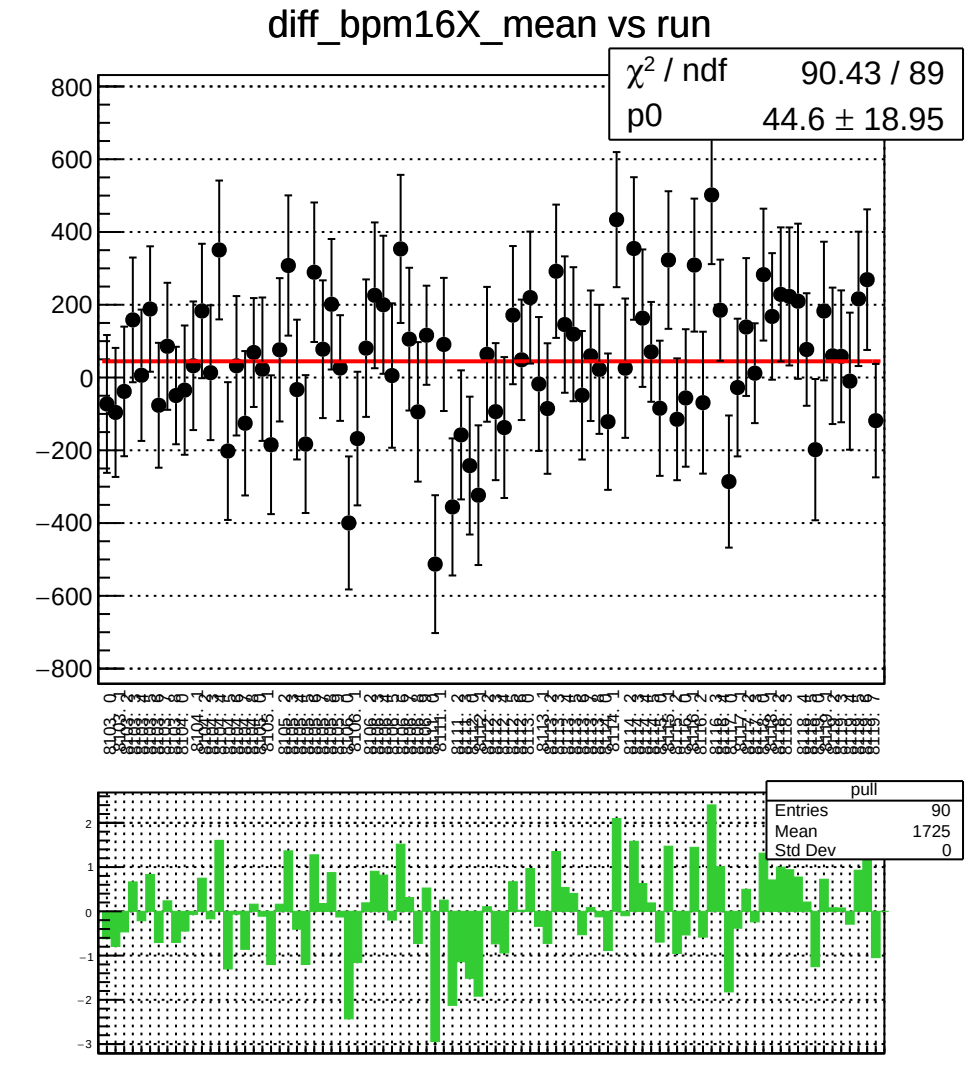

pull1D
Entries 90
Mean 0.006113
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

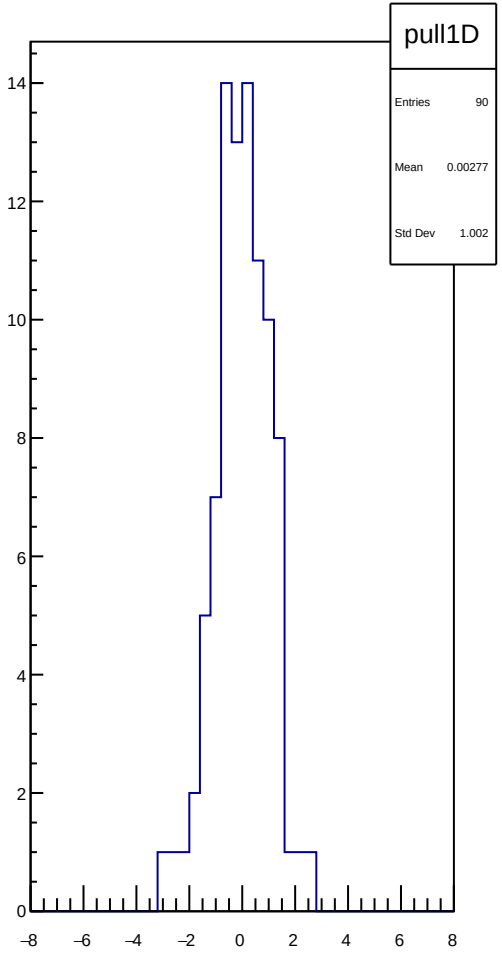

diff_bpm12X_rms vs run
χ^2 / ndf 2857 / 89
p0 4.06e+04 ± 30.64
46000
44000
42000
40000
38000

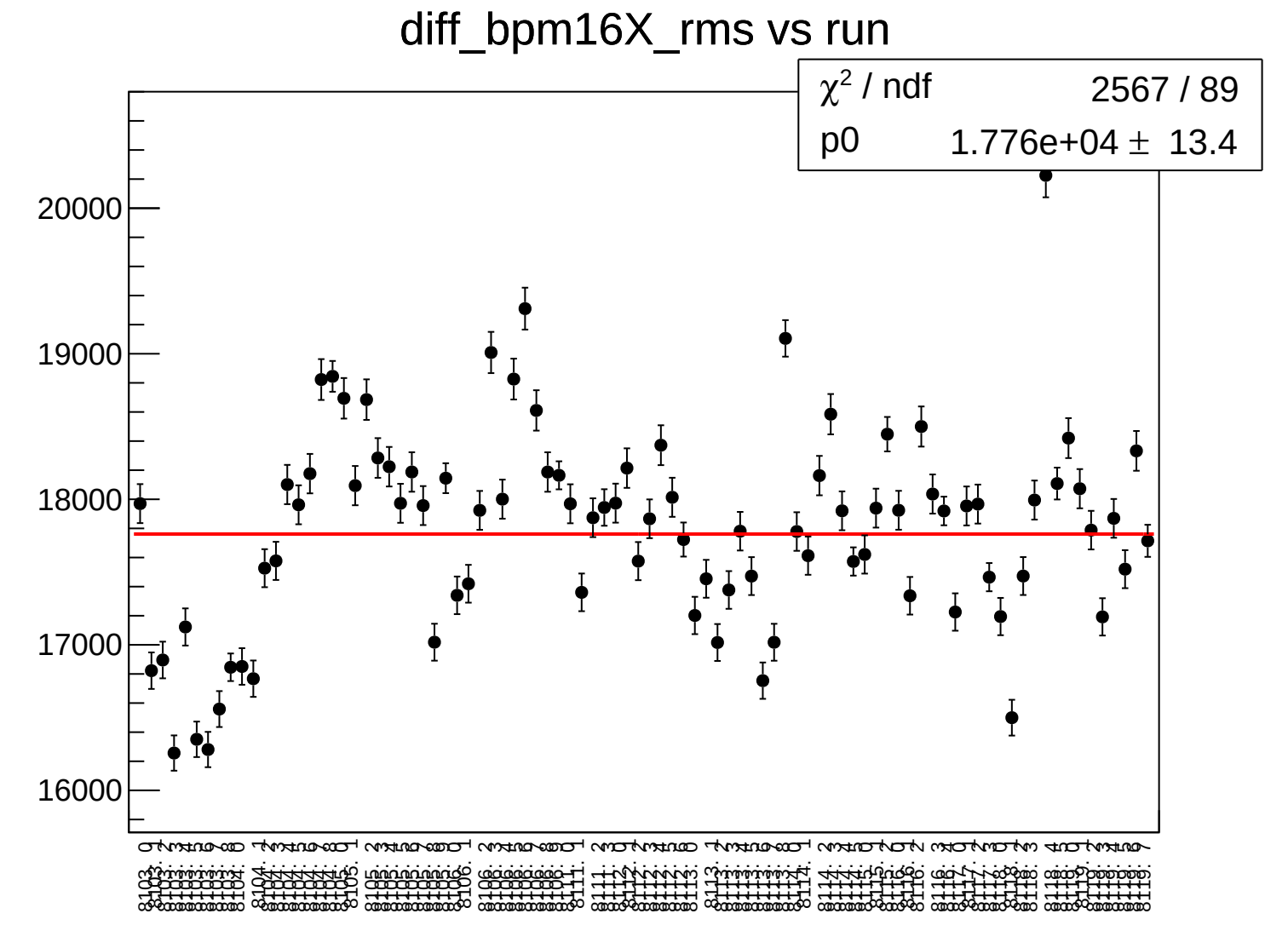

diff_bpm12Y_mean vs run
χ^2 / ndf 97.61 / 89
p0 2.859 ± 2.178
pull
Entries 90
Mean −1461
Std Dev 0

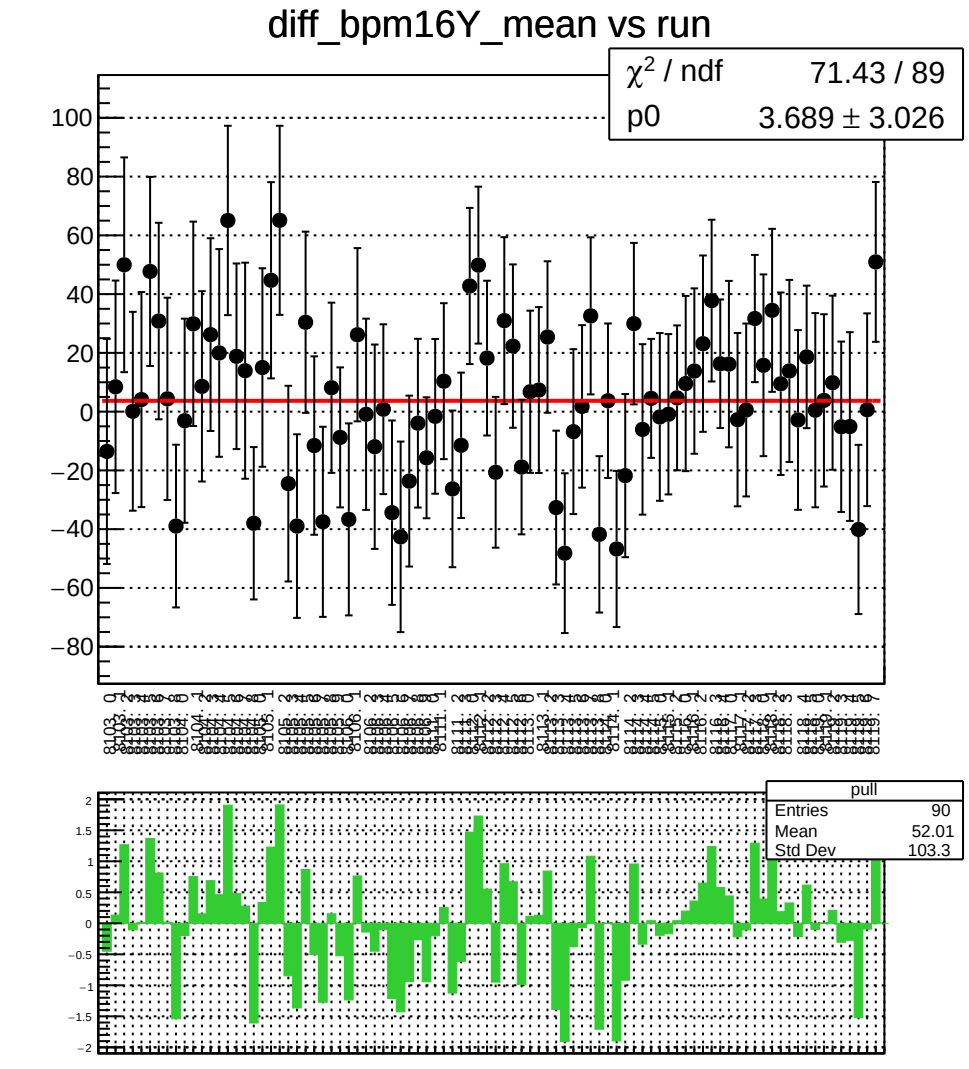

pull1D
Entries 90
Mean 0.002761
Std Dev 1.041

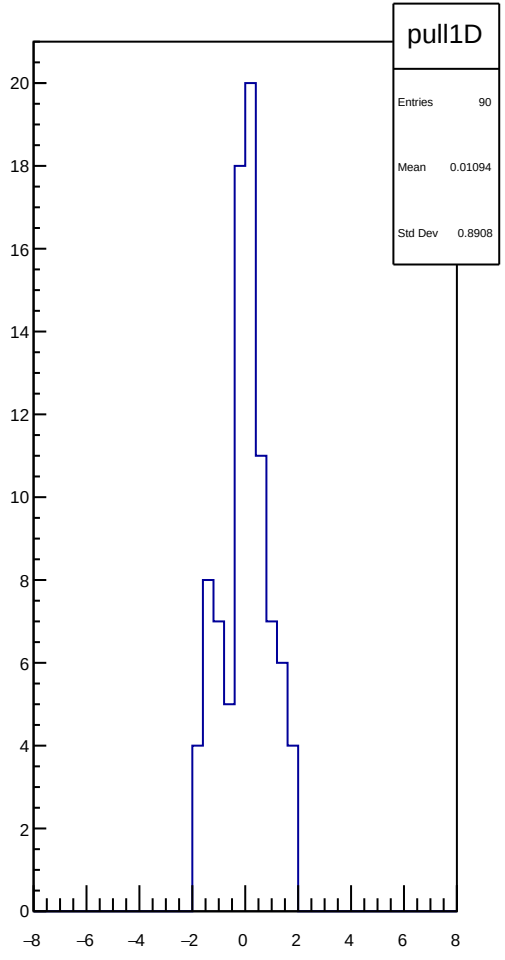

diff_bpm12Y_rms vs run
χ² / ndf 1010 / 89
p0 2042 ± 1.54
2150
2100
2050
2000
1950
1900

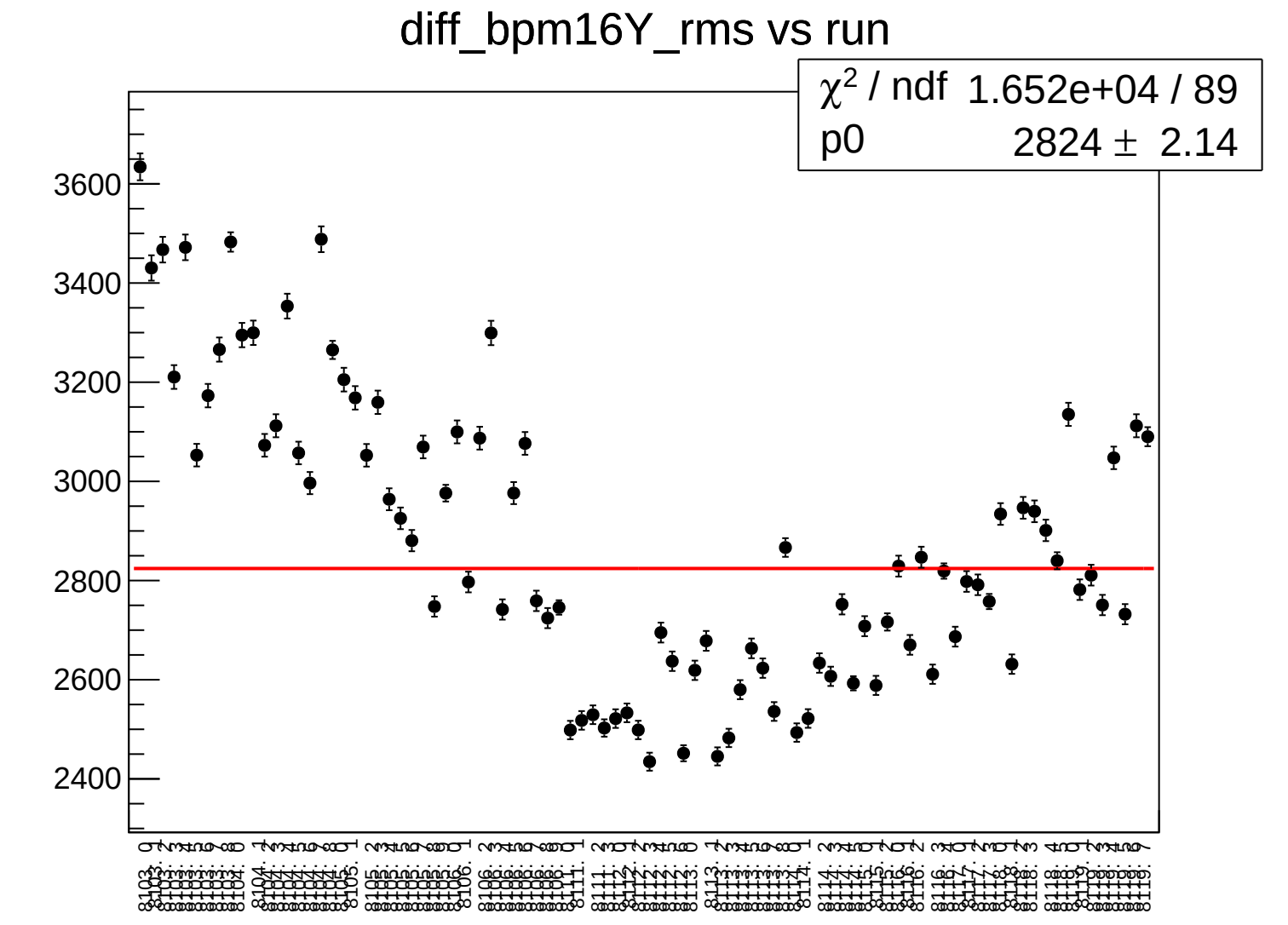

diff_bpm16X_mean vs run
χ² / ndf 90.43 / 89
p0 44.6 ± 18.95
pull
Entries 90
Mean 1725
Std Dev 0

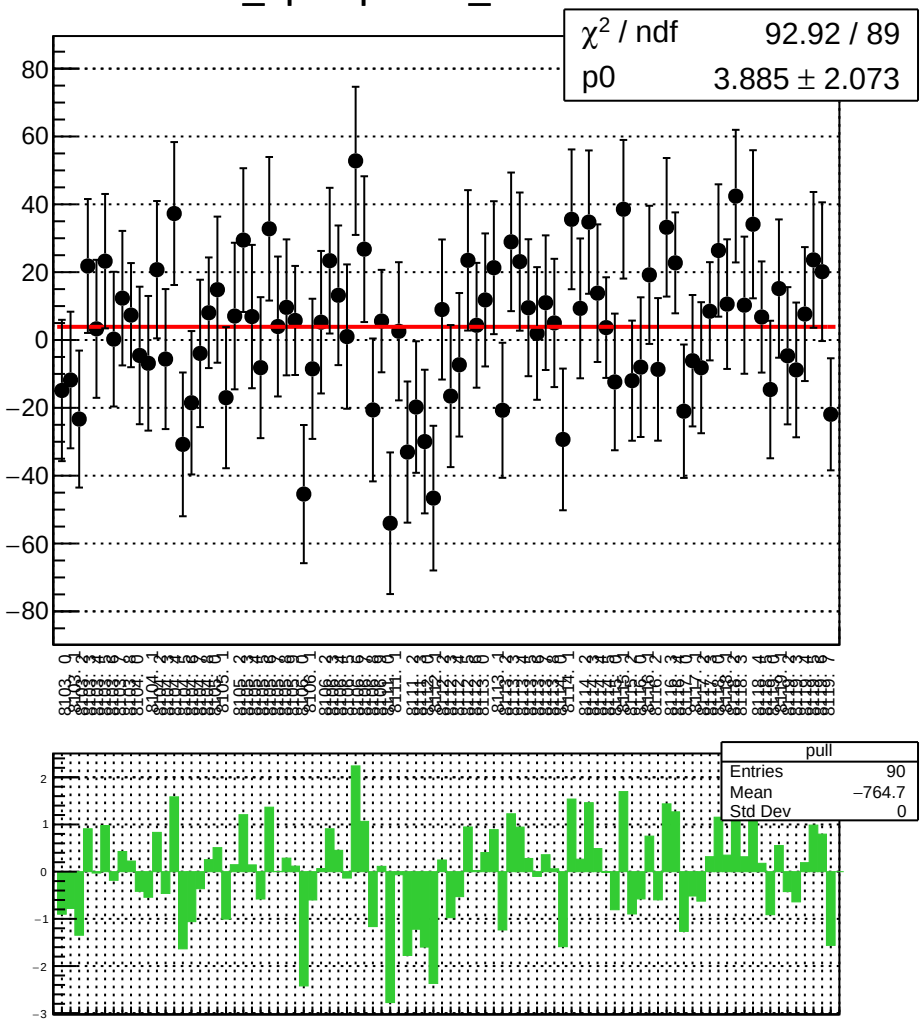

pull1D
Entries 90
Mean 0.00277
Std Dev 1.002

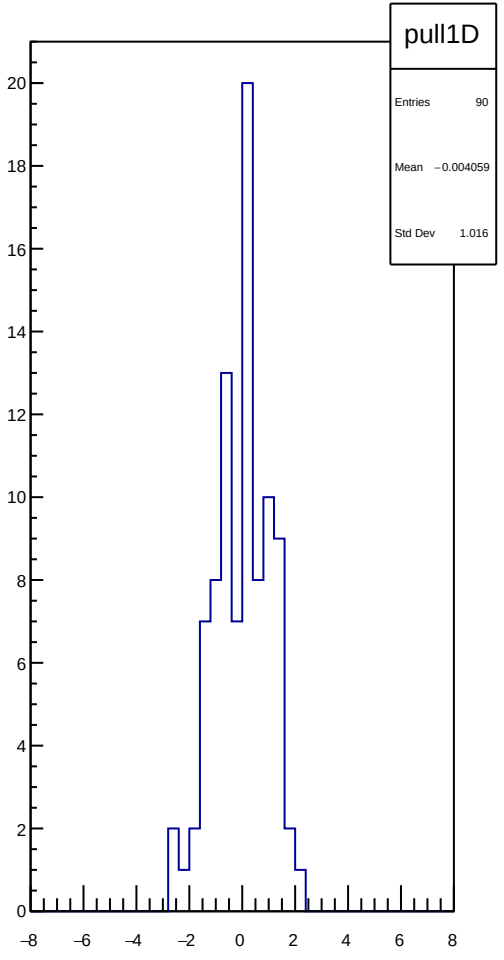

diff_bpm16X_rms vs run
χ² / ndf 2567 / 89
p0 1.776e+04 ± 13.4
20000
19000
18000
17000
16000

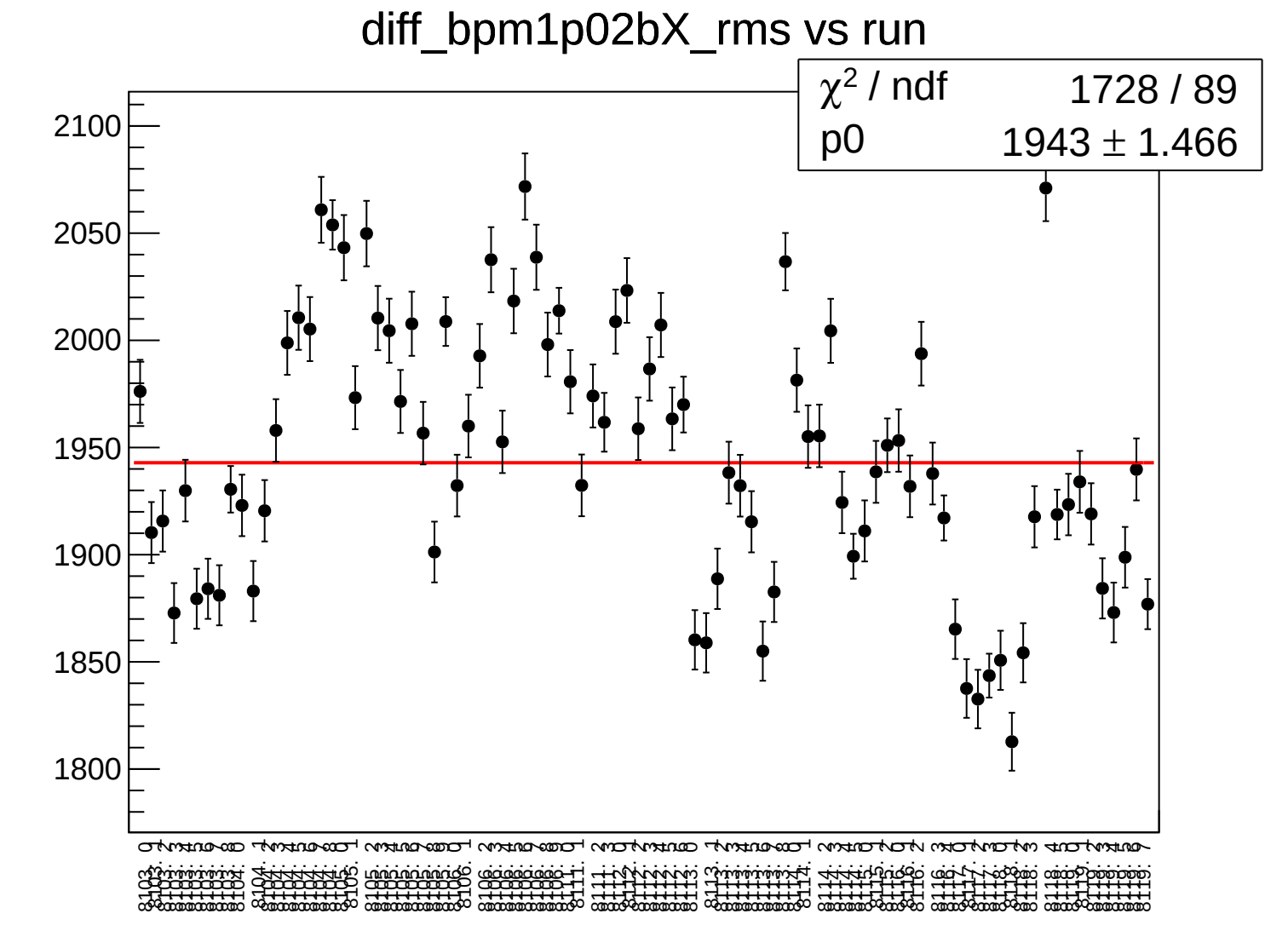

diff_bpm16Y_mean vs run
χ² / ndf 71.43 / 89
p0 3.689 ± 3.026
pull
Entries 90
Mean 52.01
Std Dev 103.3

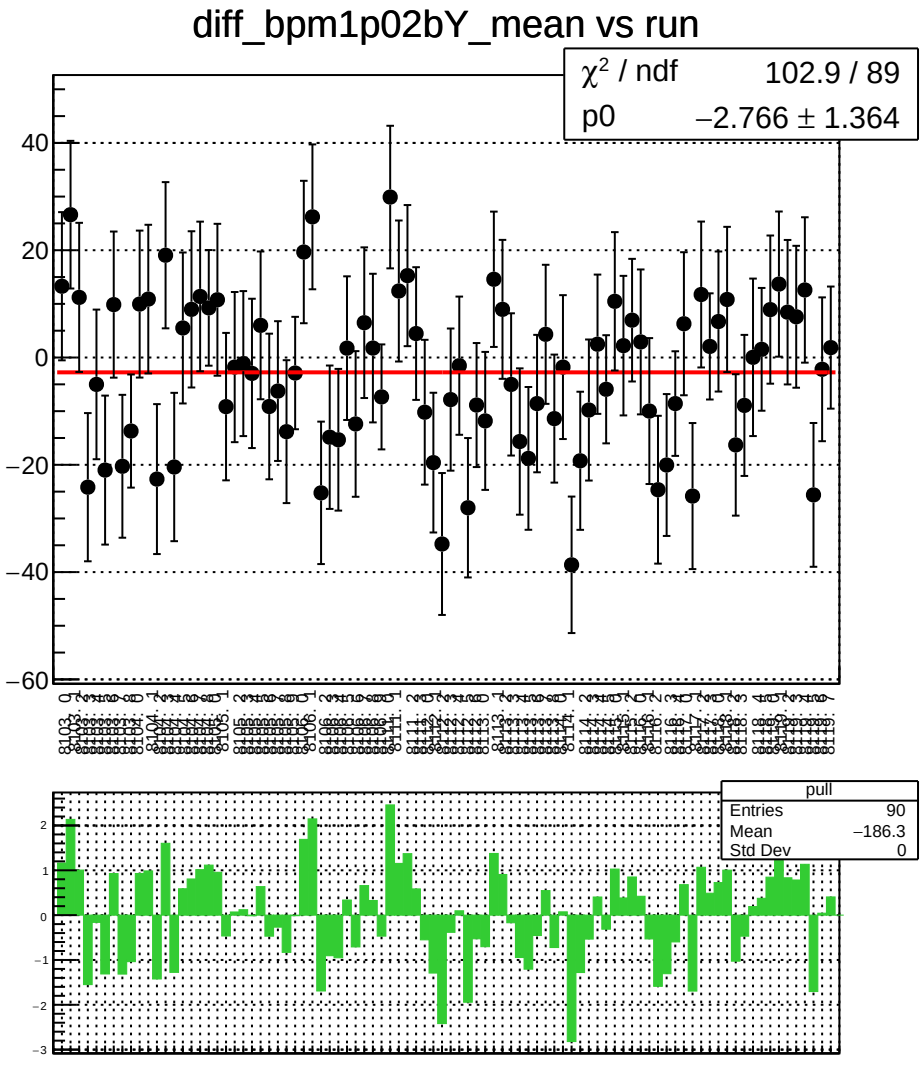

pull1D
Entries 90
Mean 0.01094
Std Dev 0.8908

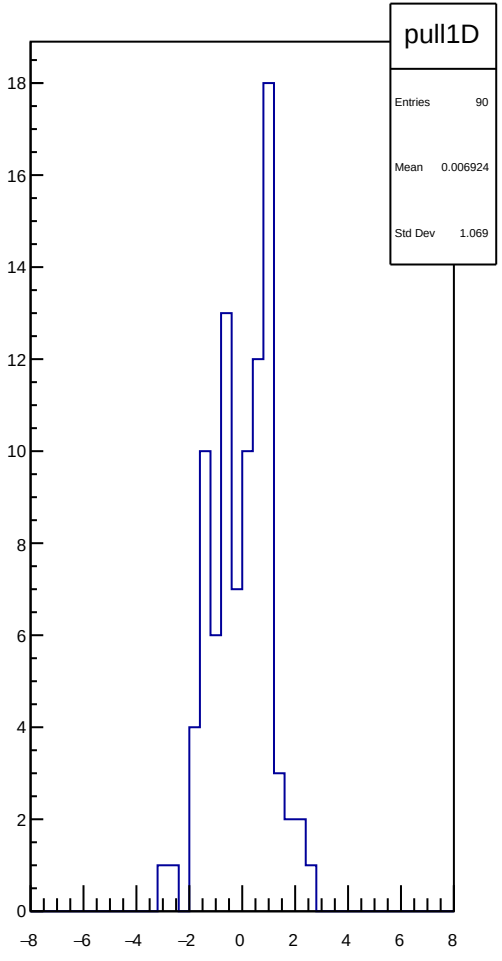

diff_bpm16Y_rms vs run
χ² / ndf 1.652e+04 / 89
p0 2824 ± 2.14
3600
3400
3200
3000
2800
2600
2400

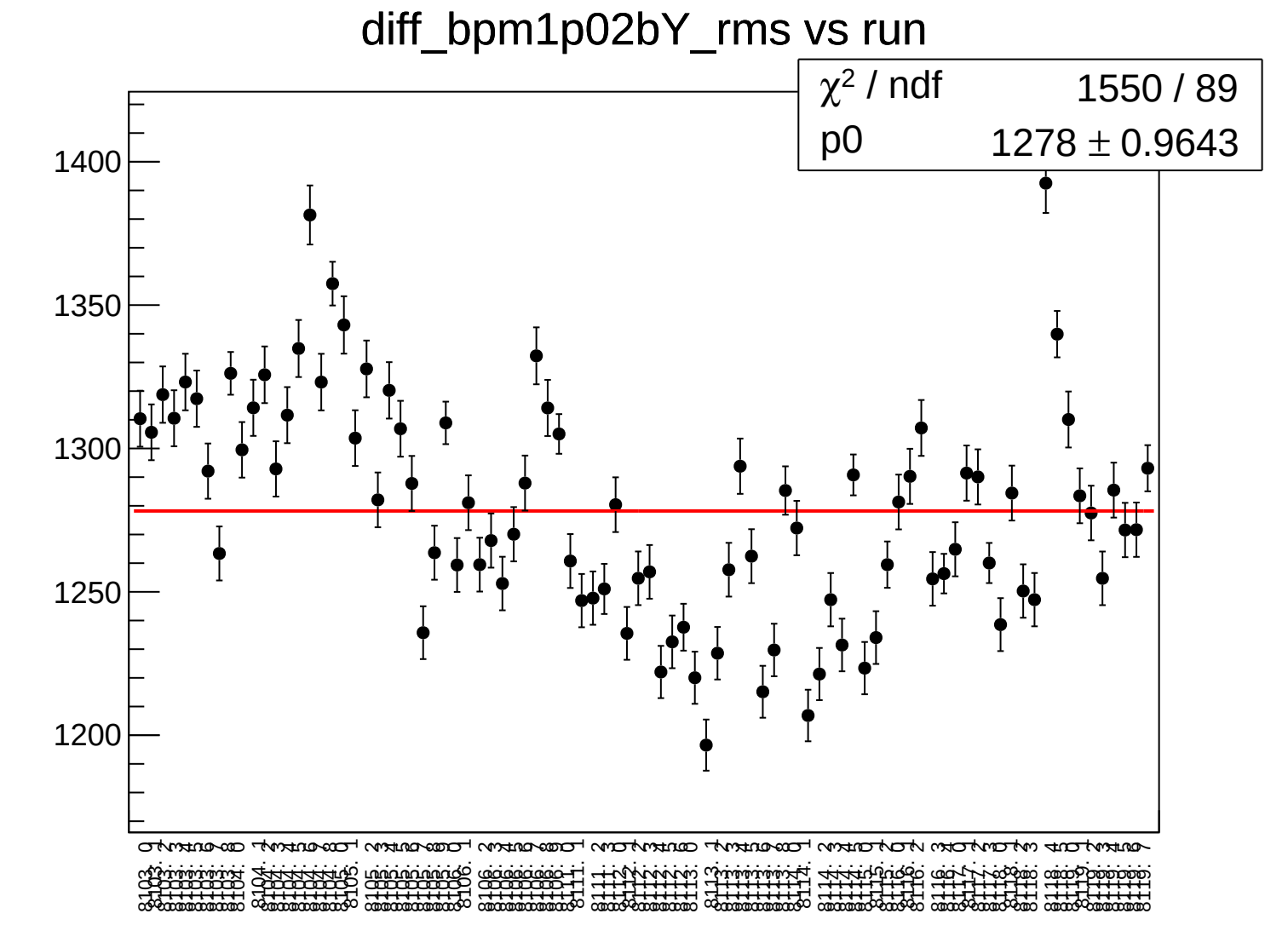

diff_bpm1p02bX_mean vs run
χ² / ndf 92.92 / 89
p0 3.885 ± 2.073
pull
Entries 90
Mean −764.7
Std Dev 0

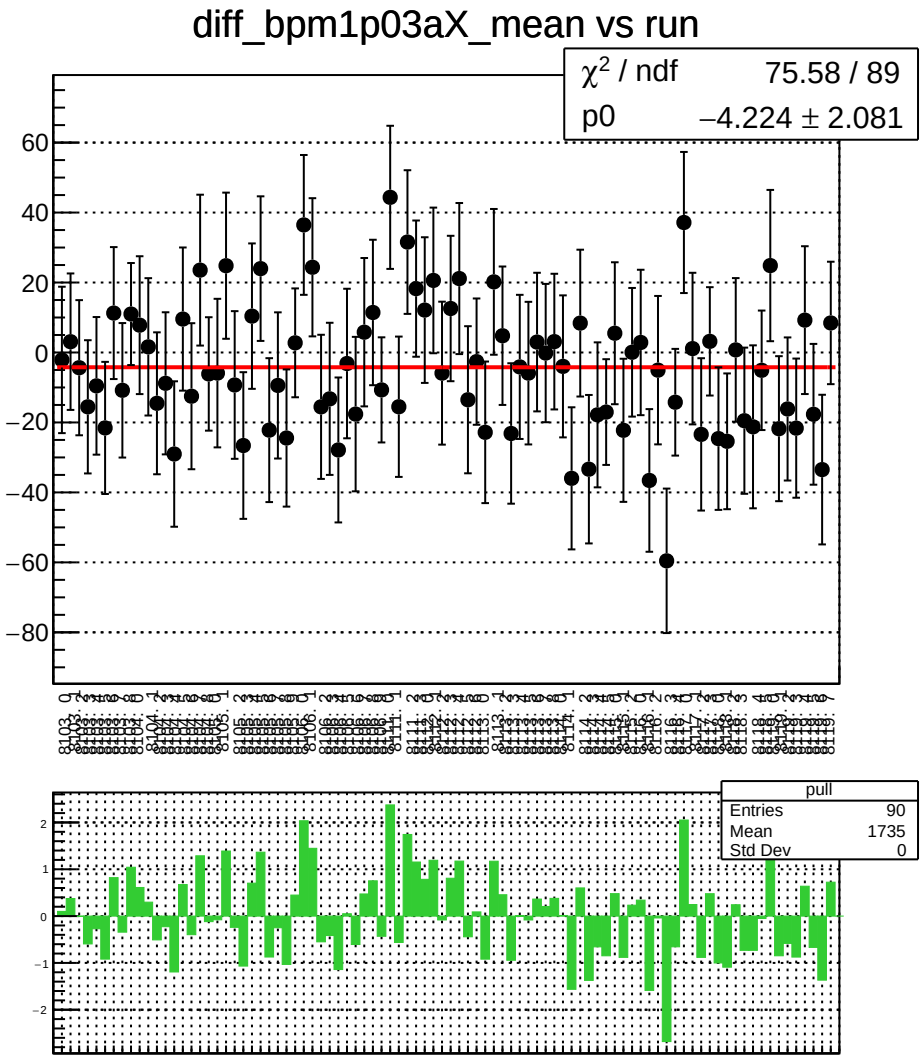

pull1D
Entries 90
Mean −0.004059
Std Dev 1.016

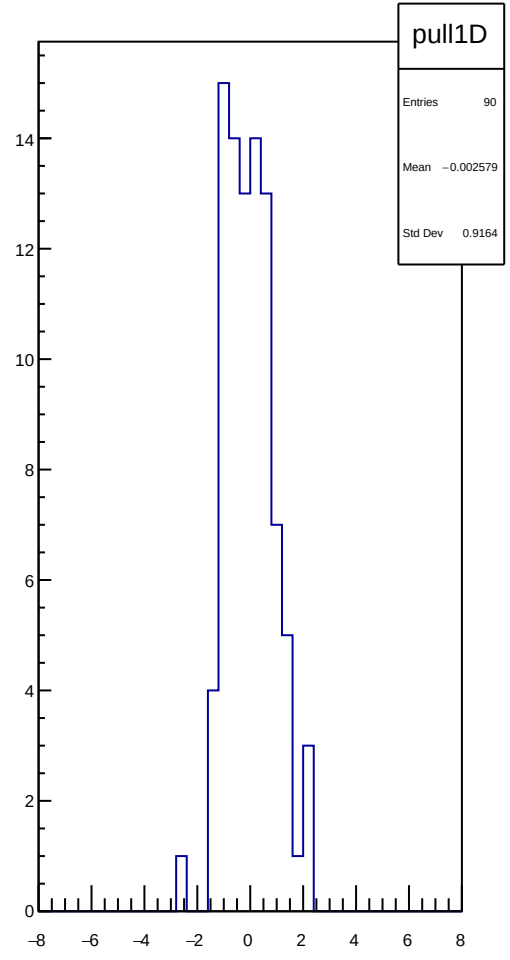

diff_bpm1p02bX_rms vs run
χ² / ndf 1728 / 89
p0 1943 ± 1.466
2100
2050
2000
1950
1900
1850
1800

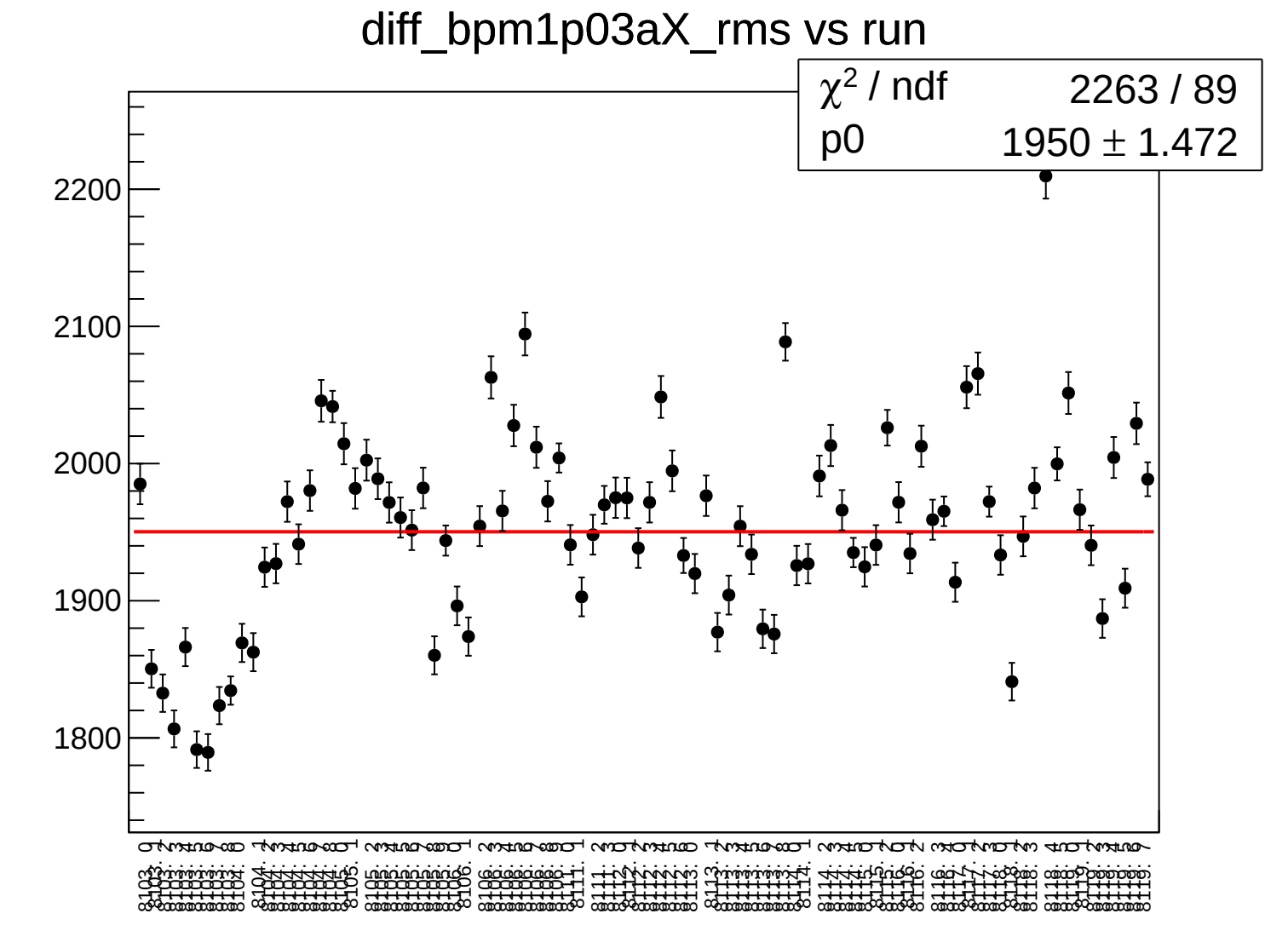

diff_bpm1p02bY_mean vs run
χ² / ndf 102.9 / 89
p0 −2.766 ± 1.364
pull
Entries 90
Mean −186.3
Std Dev 0

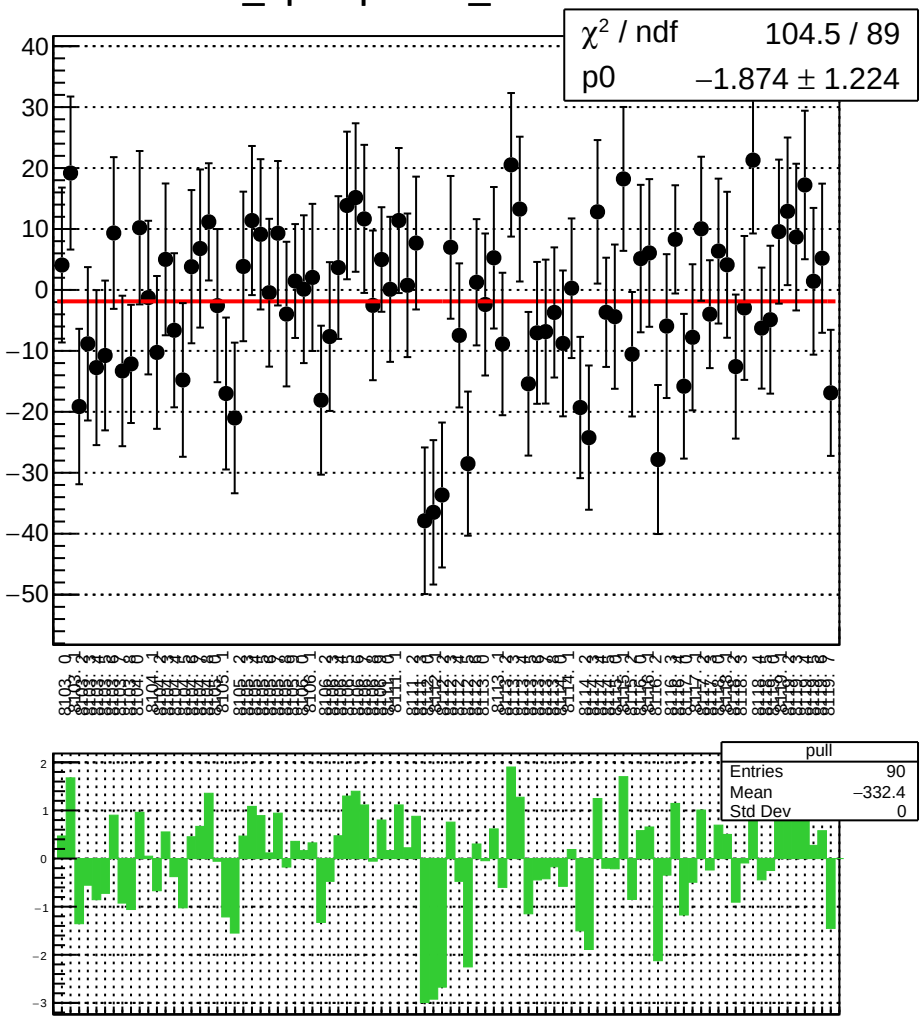

pull1D
Entries 90
Mean 0.006924
Std Dev 1.069

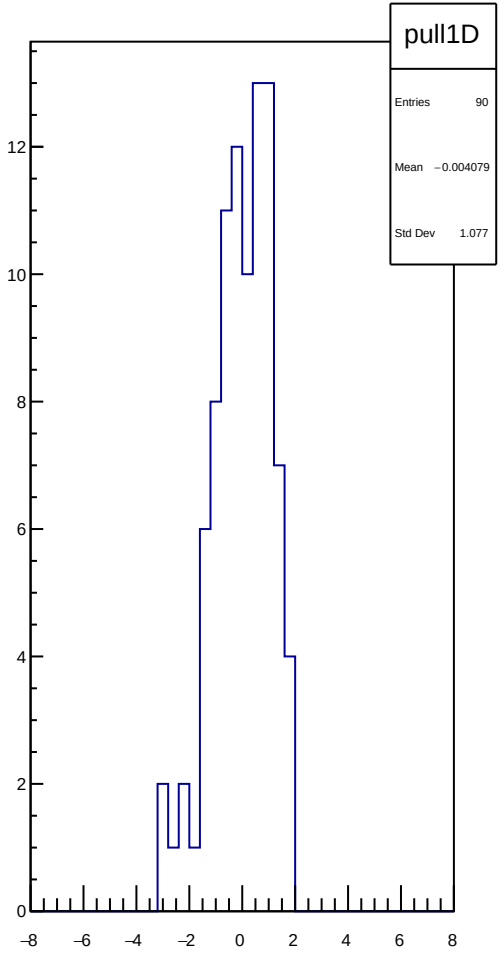

diff_bpm1p02bY_rms vs run
χ² / ndf 1550 / 89
p0 1278 ± 0.9643
1400
1350
1300
1250
1200

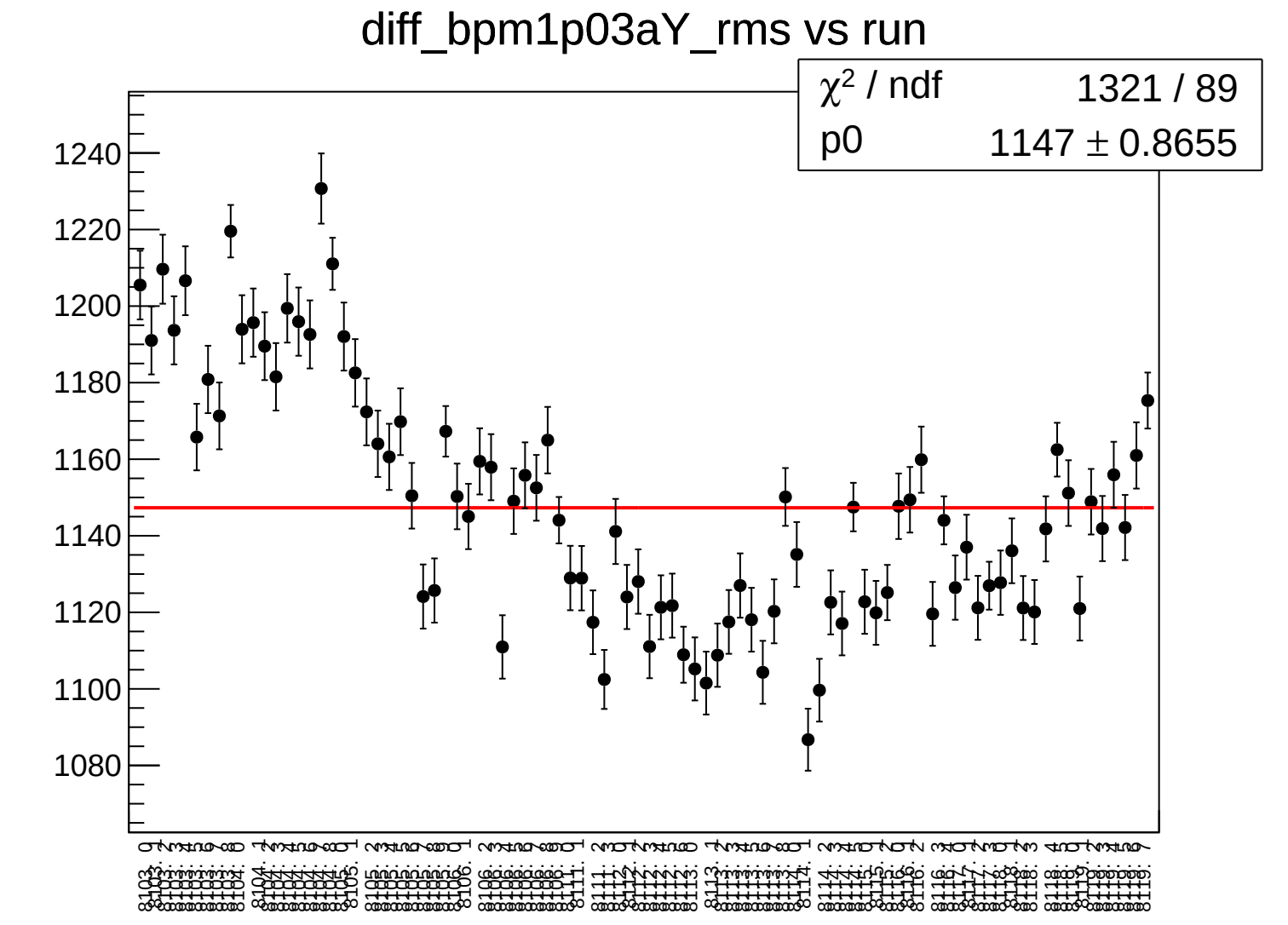

diff_bpm1p03aX_mean vs run
χ² / ndf 75.58 / 89
p0 −4.224 ± 2.081
pull
Entries 90
Mean 1735
Std Dev 0

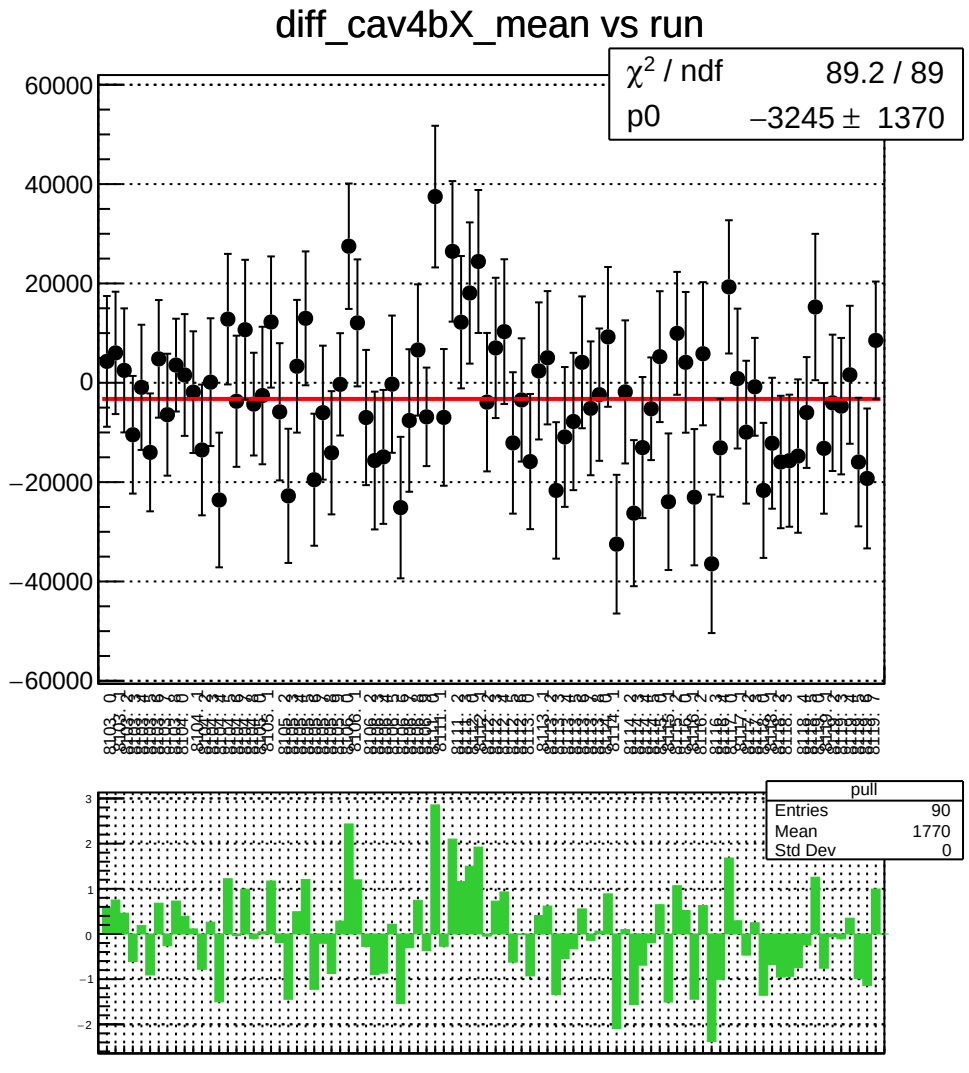

pull1D
Entries 90
Mean −0.002579
Std Dev 0.9164

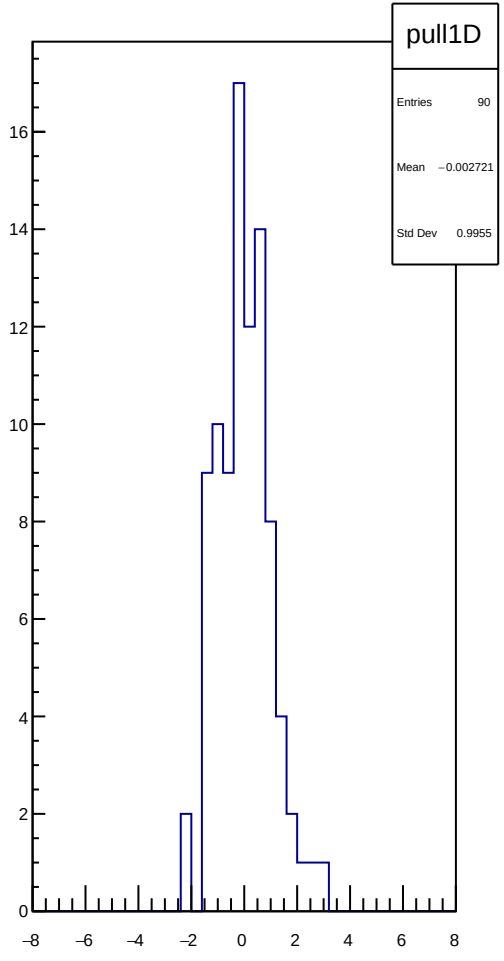

diff_bpm1p03aX_rms vs run
χ² / ndf 2263 / 89
p0 1950 ± 1.472
2200
2100
2000
1900
1800

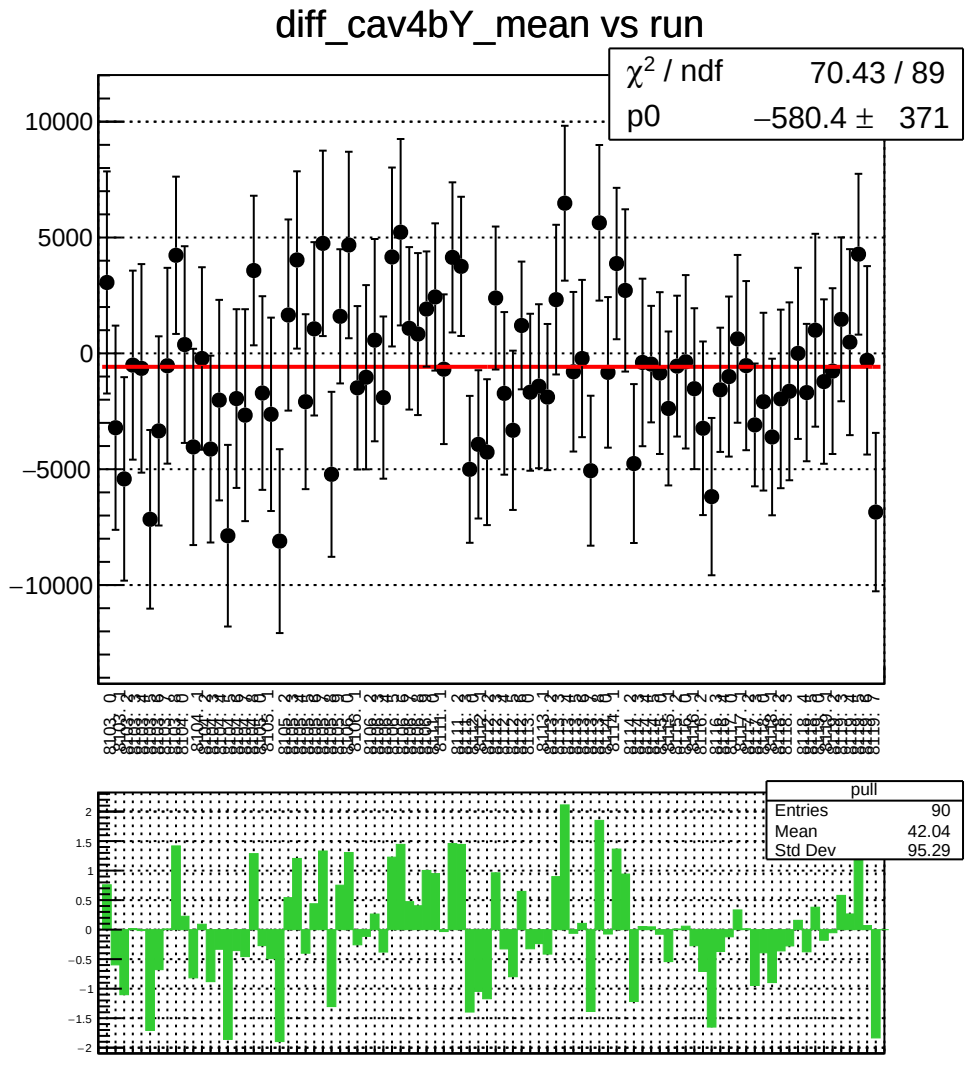

diff_bpm1p03aY_mean vs run
χ² / ndf 104.5 / 89
p0 −1.874 ± 1.224
pull
Entries 90
Mean −332.4
Std Dev 0

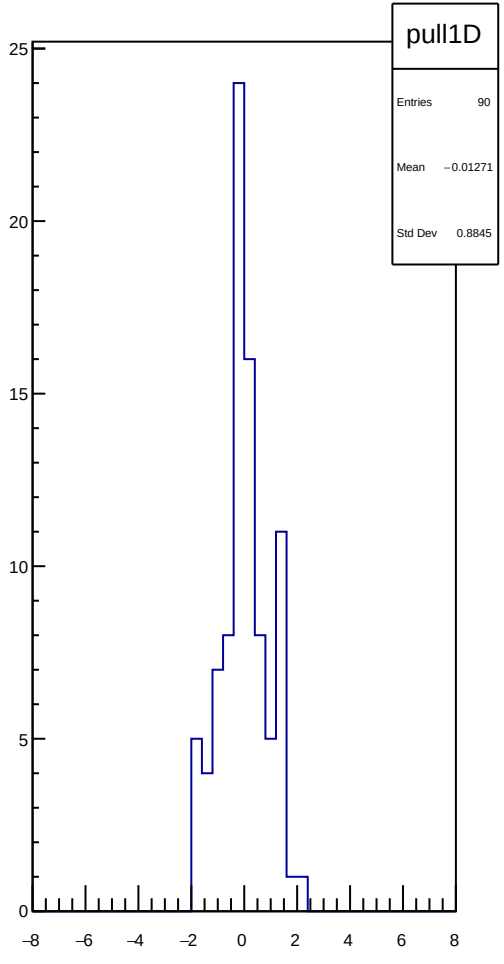

pull1D
Entries 90
Mean −0.004079
Std Dev 1.077

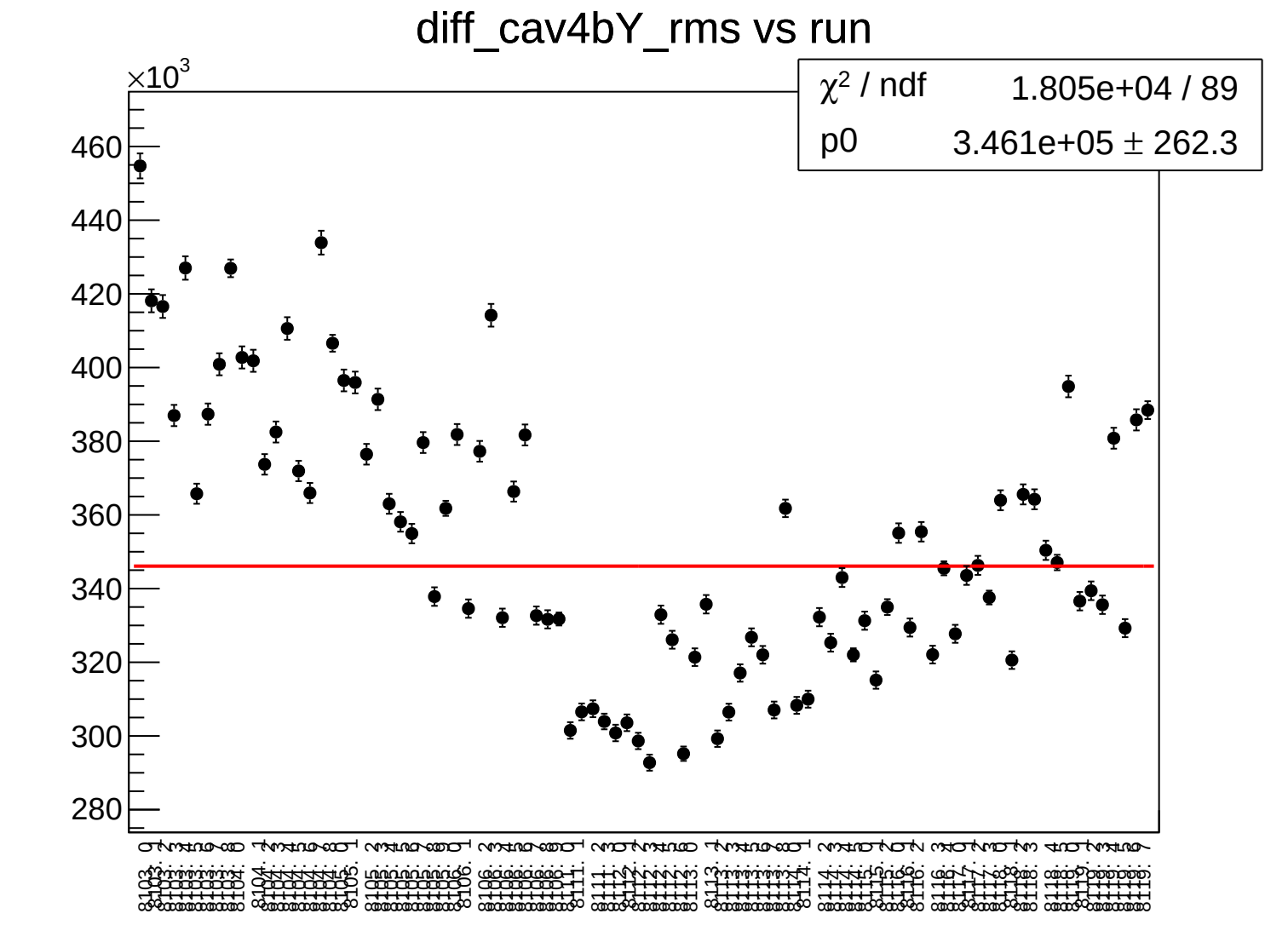

diff_bpm1p03aY_rms vs run
χ² / ndf 1321 / 89
p0 1147 ± 0.8655
1240
1220
1200
1180
1160
1140
1120
1100
1080

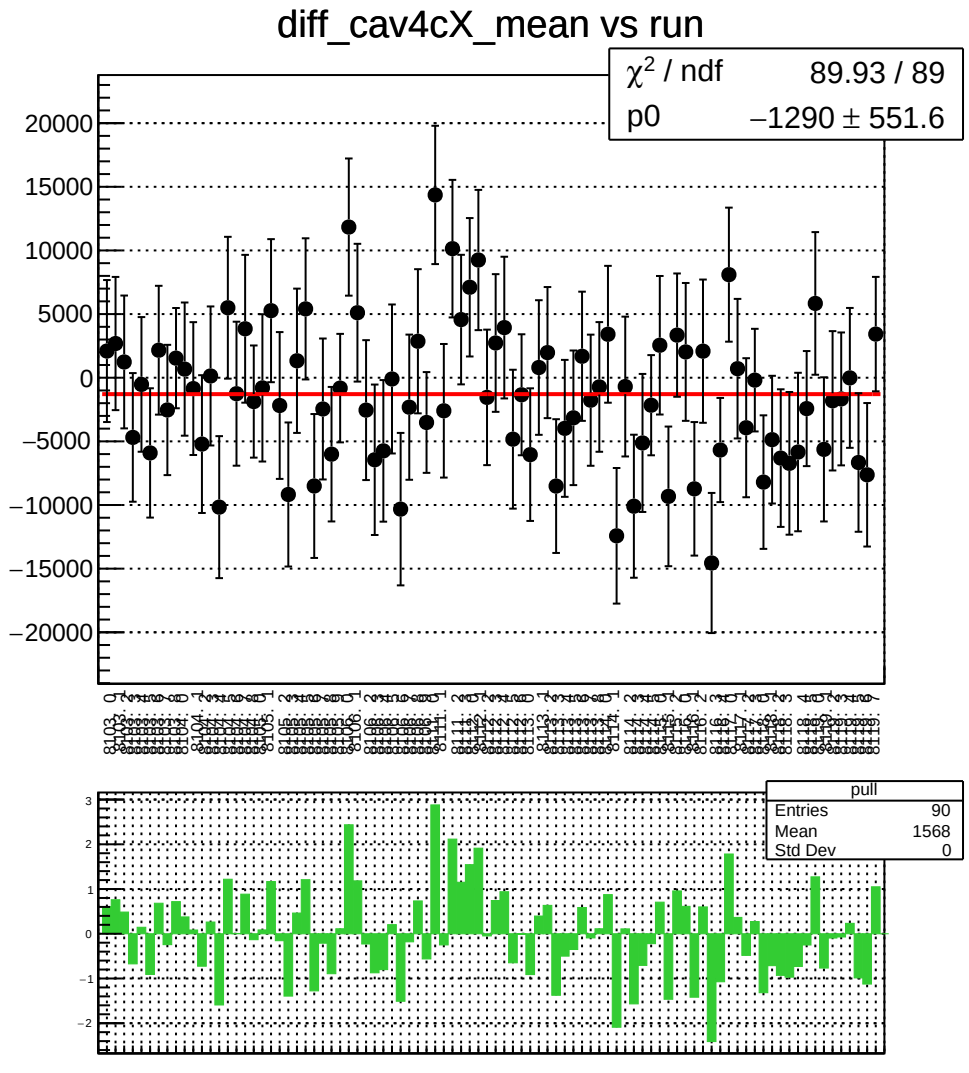

diff_cav4bX_mean vs run
χ² / ndf 89.2 / 89
p0 −3245 ± 1370
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1770
Std Dev 0
3
2
1
0
−1
−2

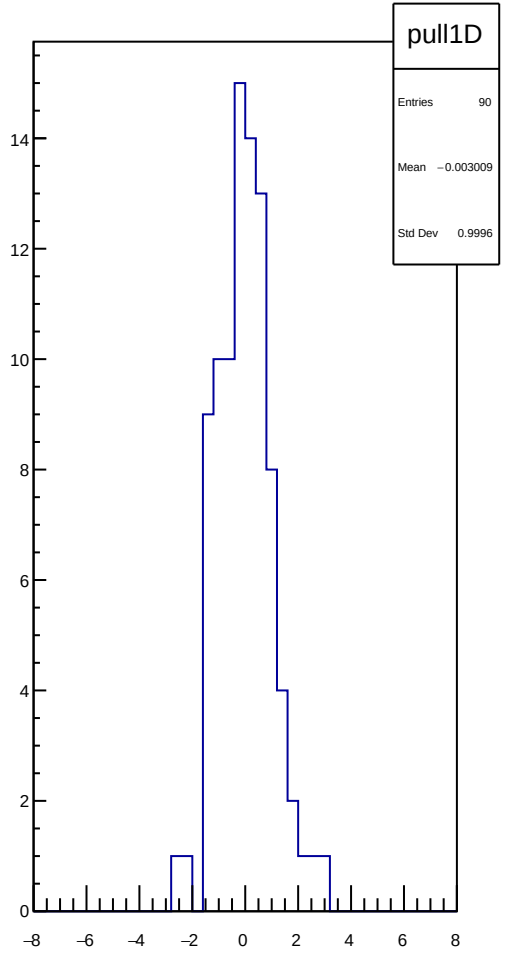

pull1D
Entries 90
Mean −0.002721
Std Dev 0.9955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

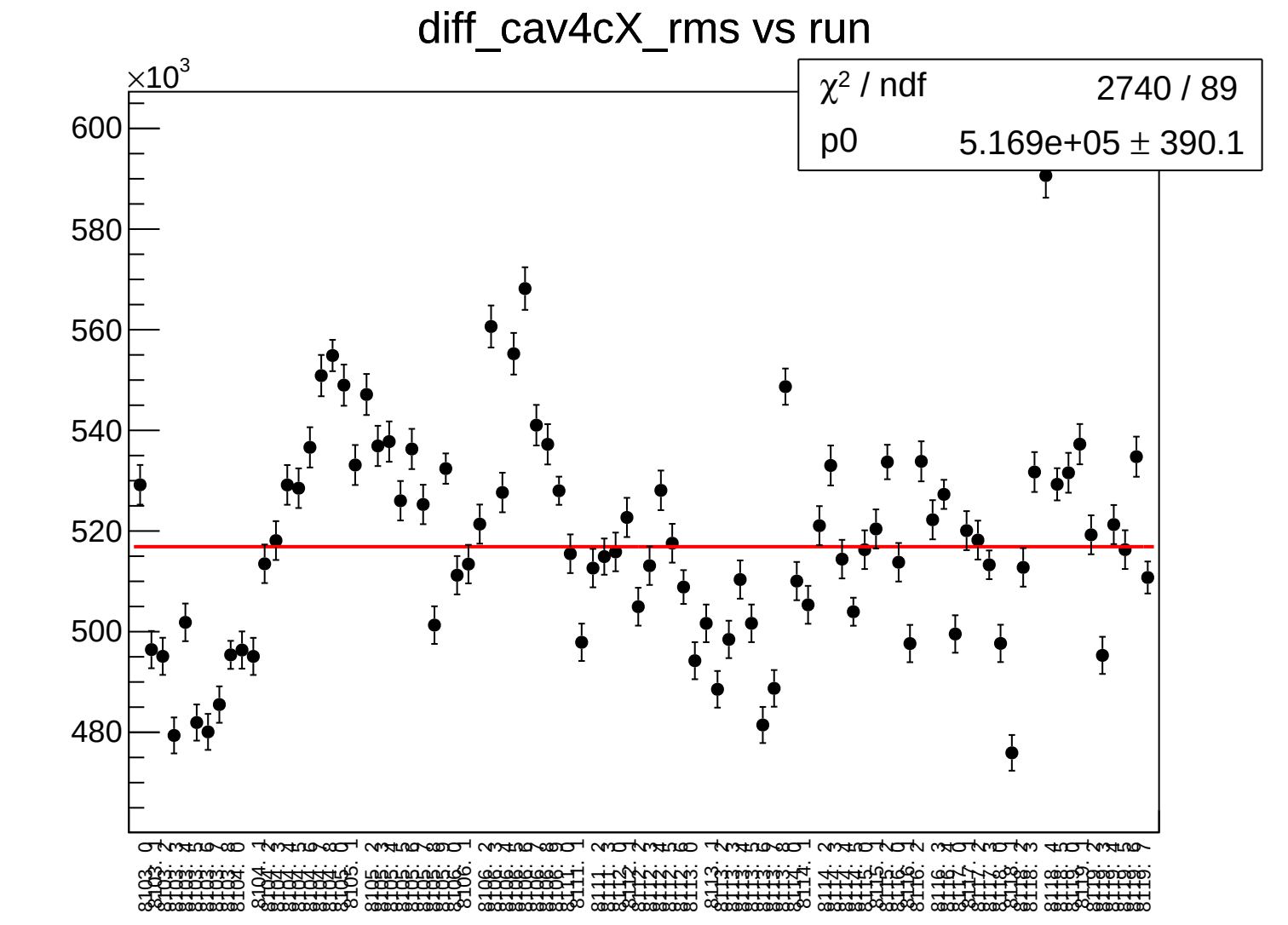

diff_cav4bY_mean vs run
χ² / ndf 70.43 / 89
p0 −580.4 ± 371
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 42.04
Std Dev 95.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

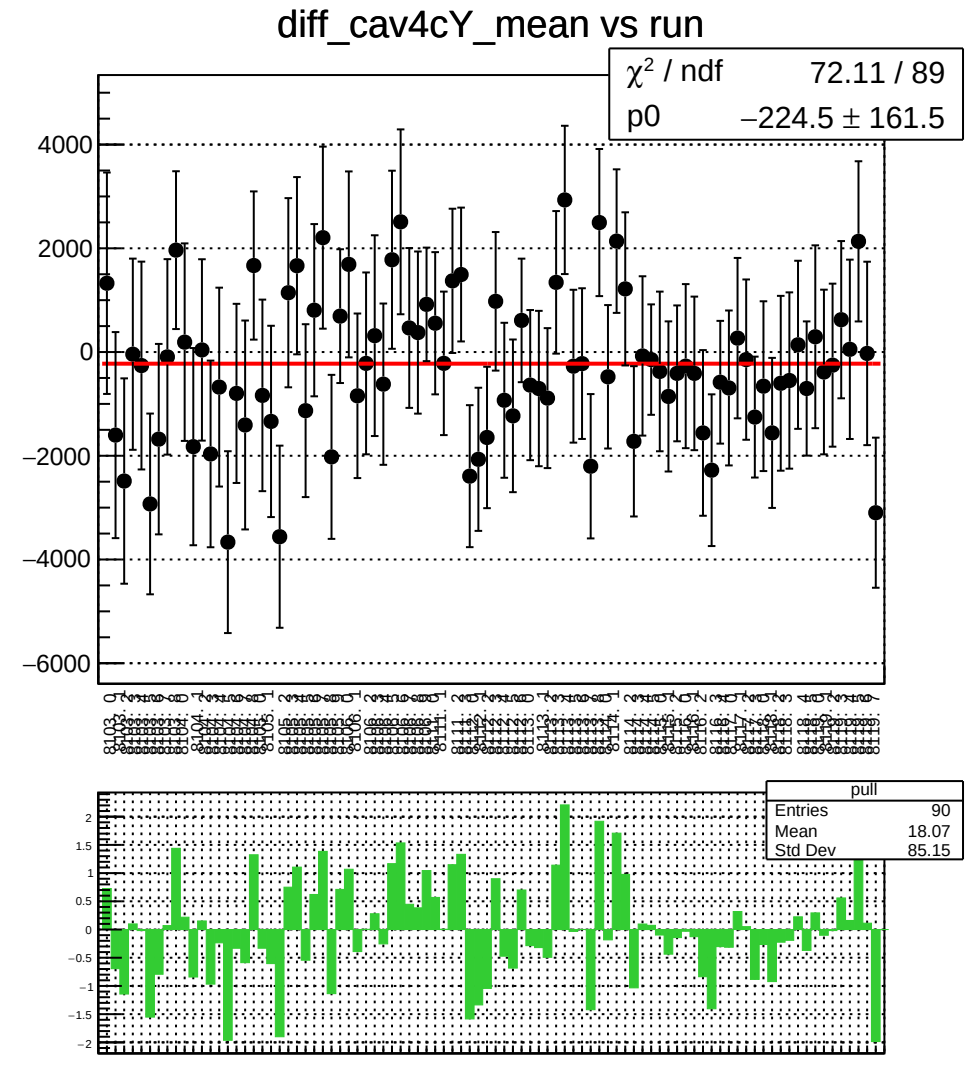

pull1D
Entries 90
Mean −0.01271
Std Dev 0.8845
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

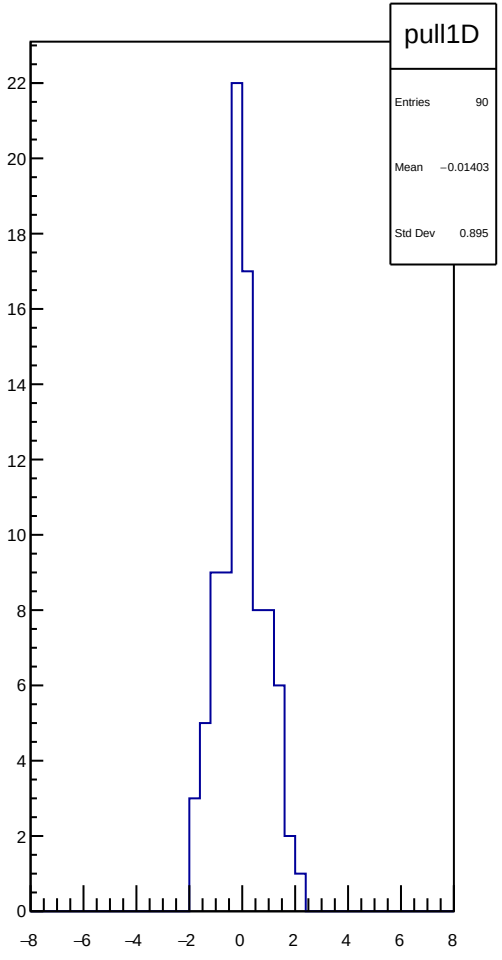

diff_cav4bY_rms vs run
×10^3
460
440
420
400
380
360
340
320
300
280
χ² / ndf 1.805e+04 / 89
p0 3.461e+05 ± 262.3

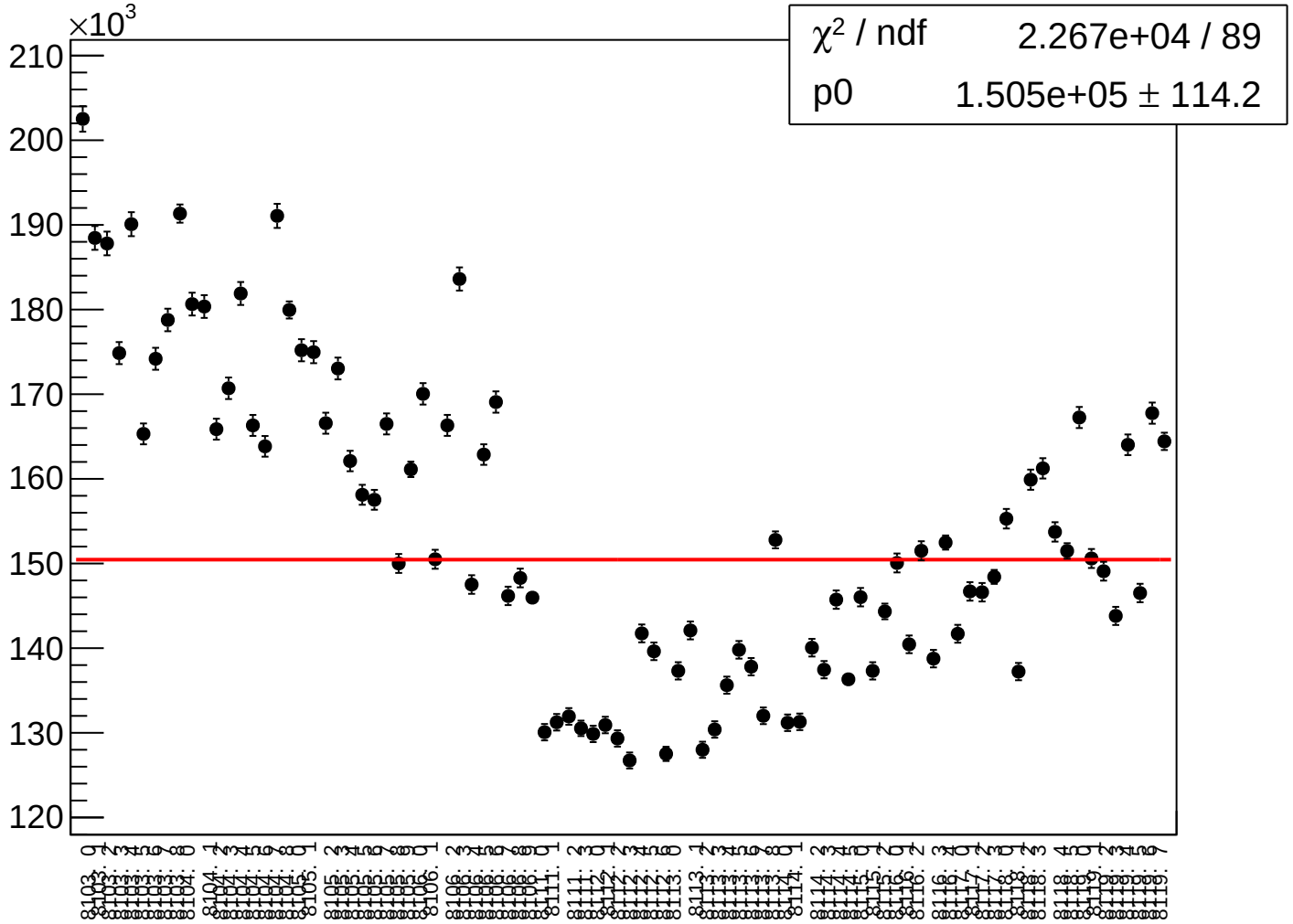

diff_cav4cX_mean vs run
χ² / ndf 89.93 / 89
p0 −1290 ± 551.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean 1568
Std Dev 0
3
2
1
0
−1
−2

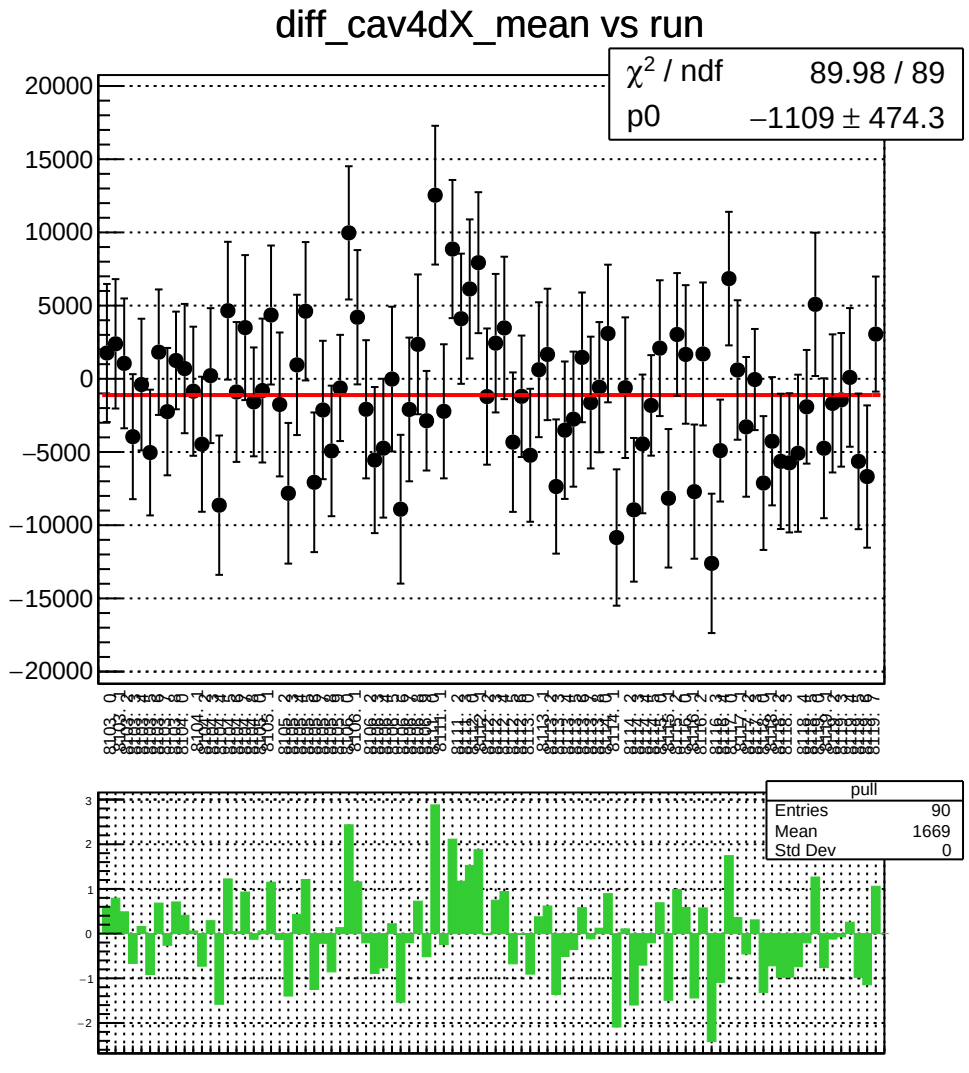

pull1D
Entries 90
Mean −0.003009
Std Dev 0.9996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

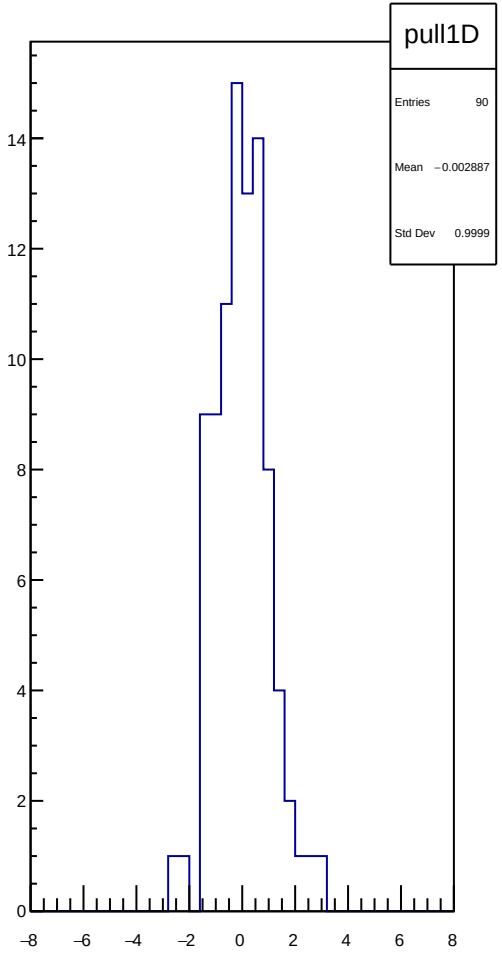

diff_cav4cX_rms vs run
×10^3
600
580
560
540
520
500
480
χ² / ndf 2740 / 89
p0 5.169e+05 ± 390.1

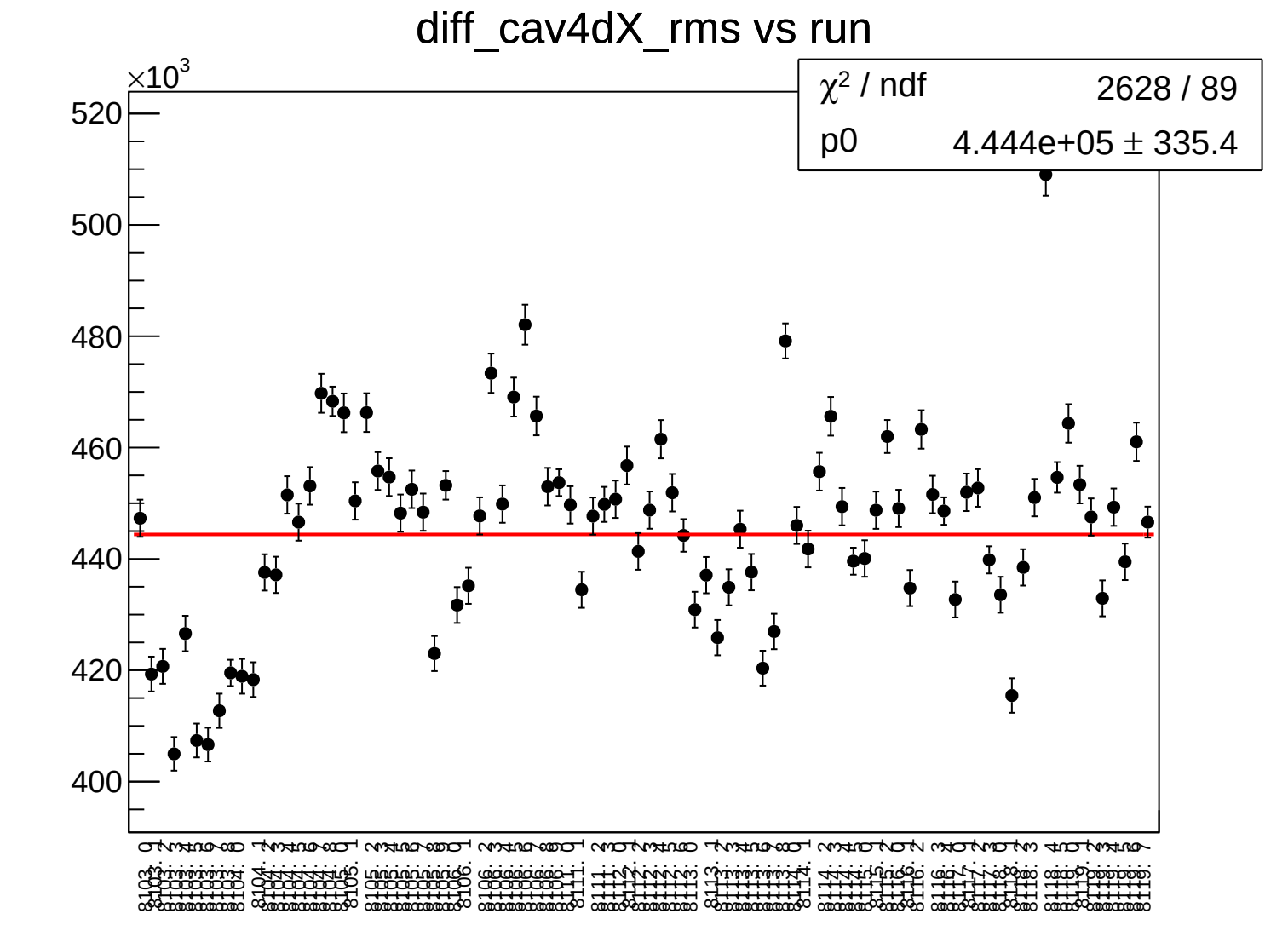

diff_cav4cY_mean vs run
χ² / ndf 72.11 / 89
p0 −224.5 ± 161.5
pull
Entries 90
Mean 18.07
Std Dev 85.15

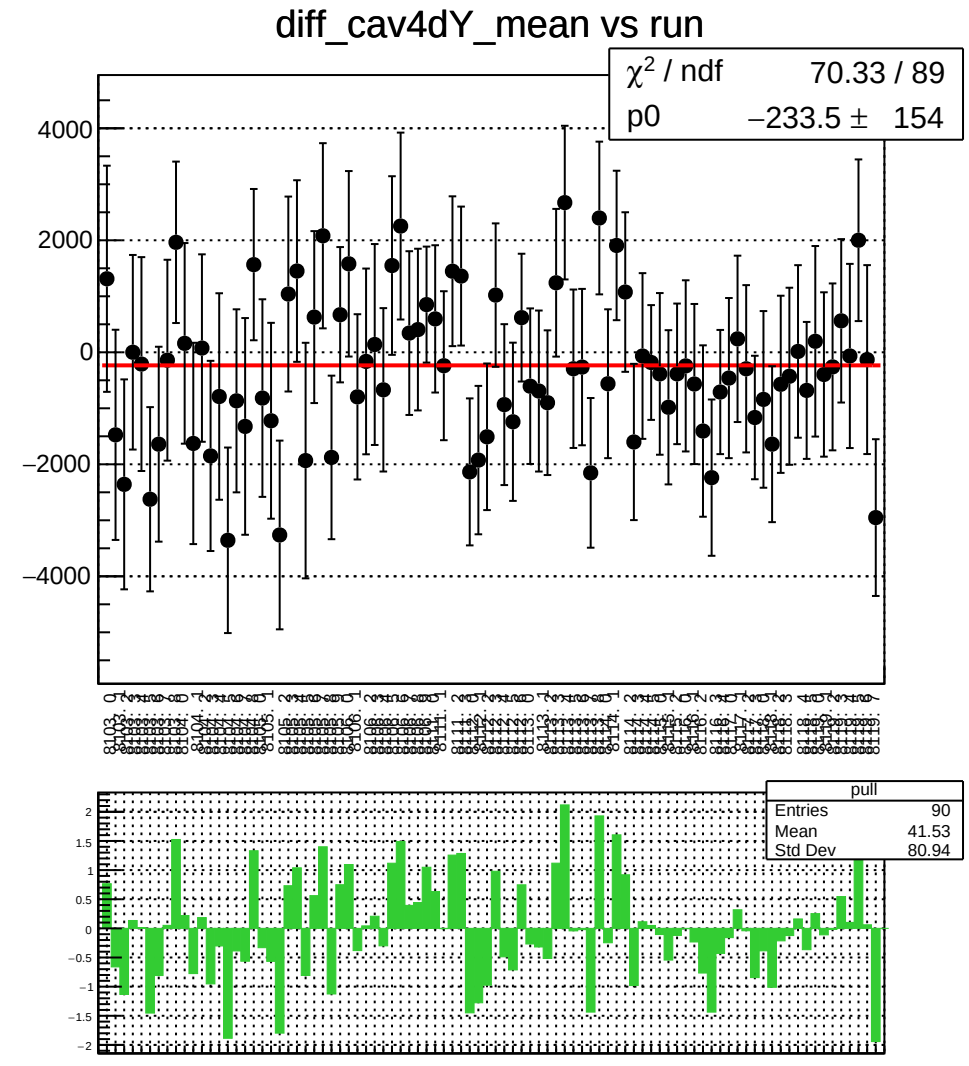

pull1D
Entries 90
Mean −0.01403
Std Dev 0.895

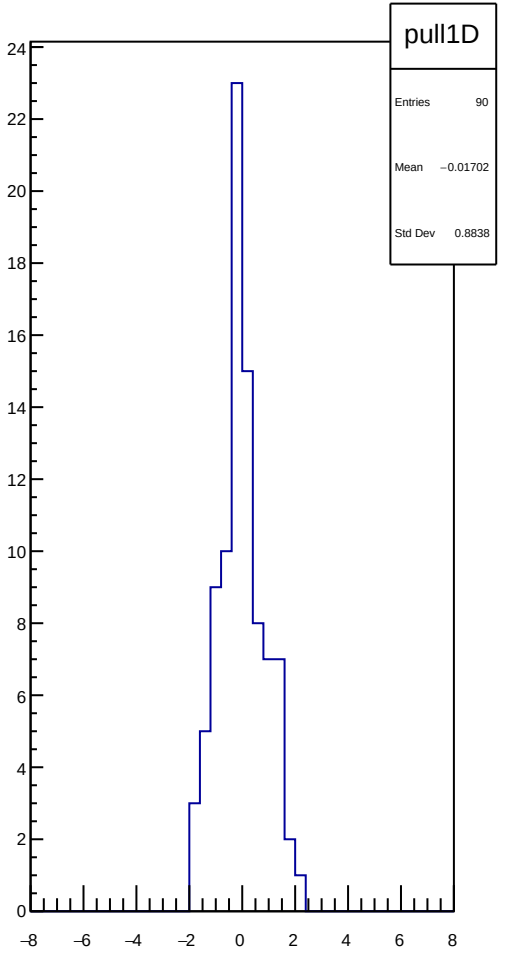

diff_cav4cY_rms vs run
×10^3
χ² / ndf 2.267e+04 / 89
p0 1.505e+05 ± 114.2
210
200
190
180
170
160
150
140
130
120

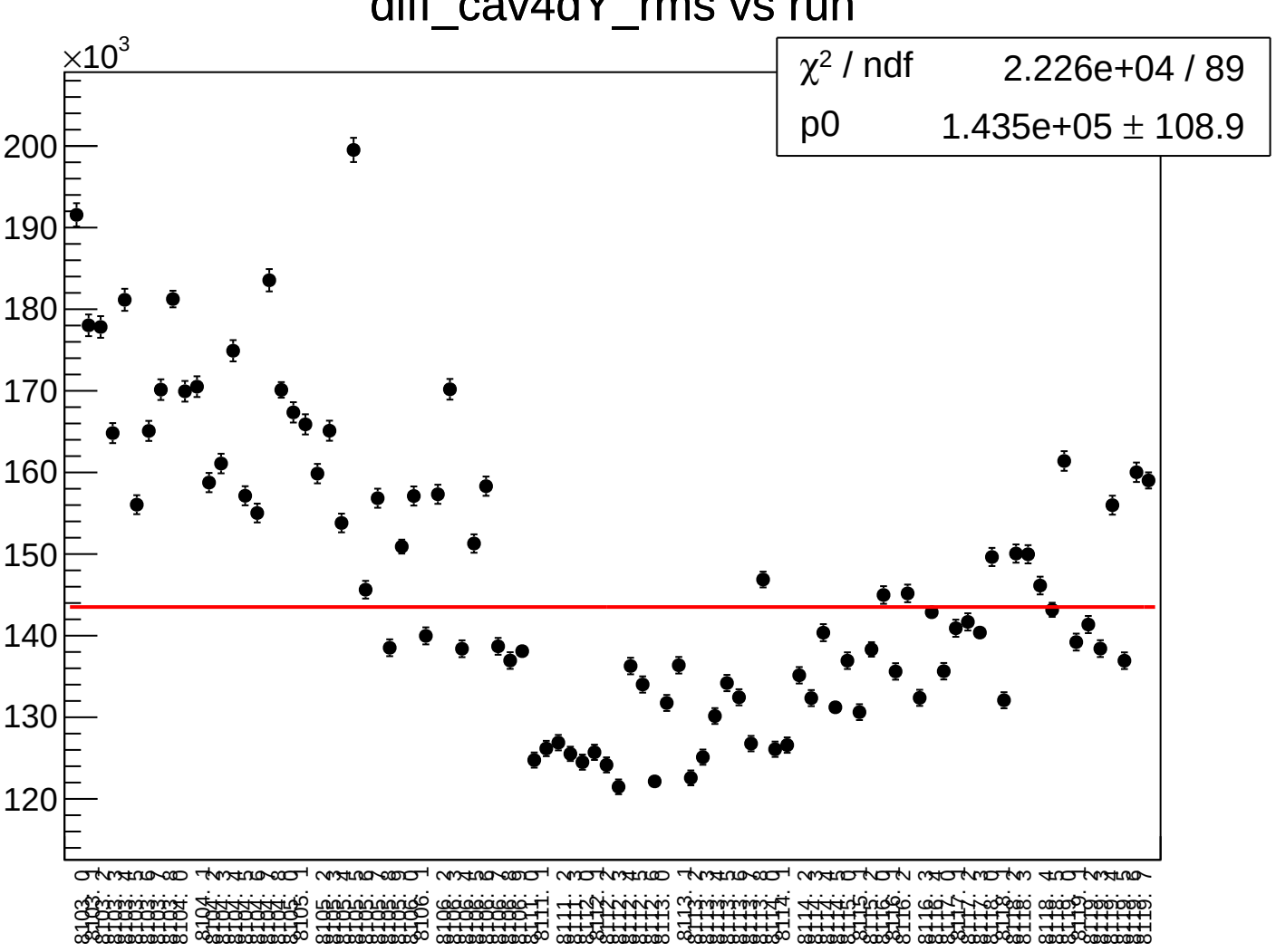

diff_cav4dX_mean vs run
χ² / ndf 89.98 / 89
p0 −1109 ± 474.3
pull
Entries 90
Mean 1669
Std Dev 0

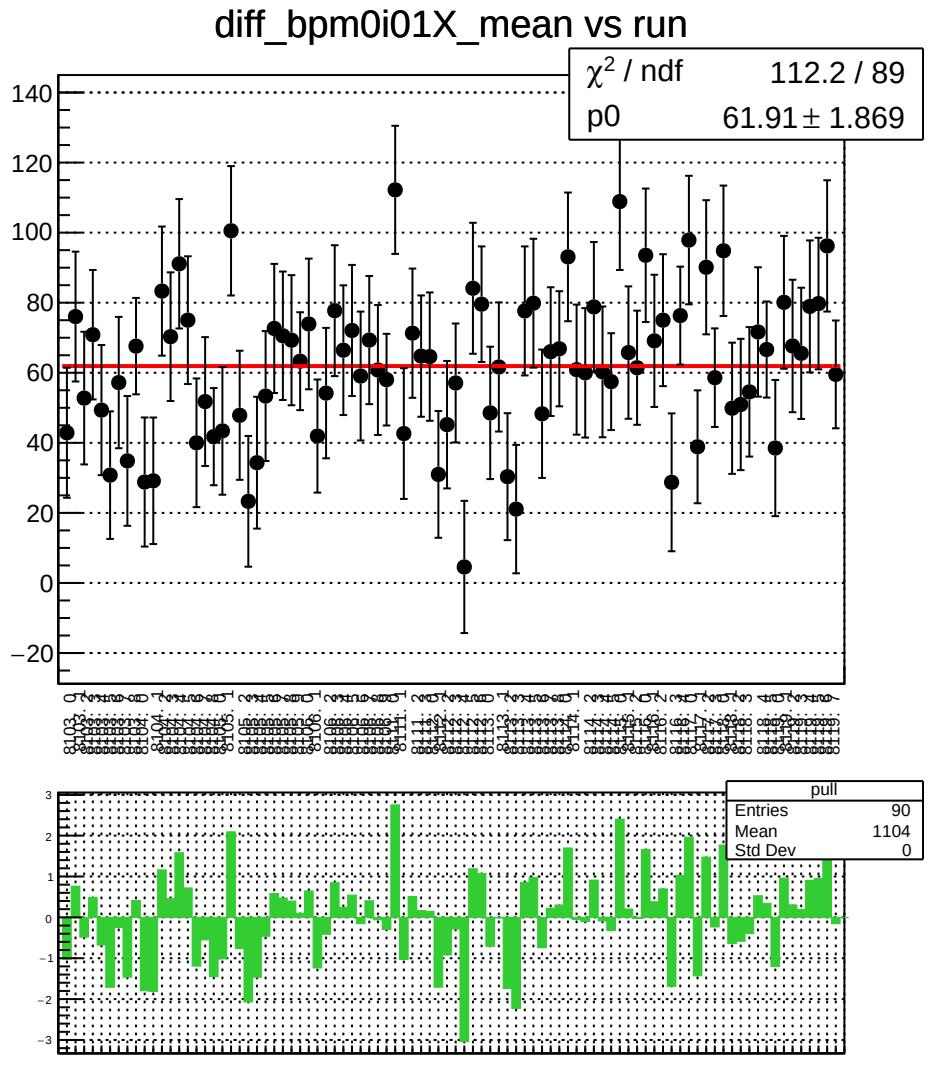

pull1D
Entries 90
Mean −0.002887
Std Dev 0.9999

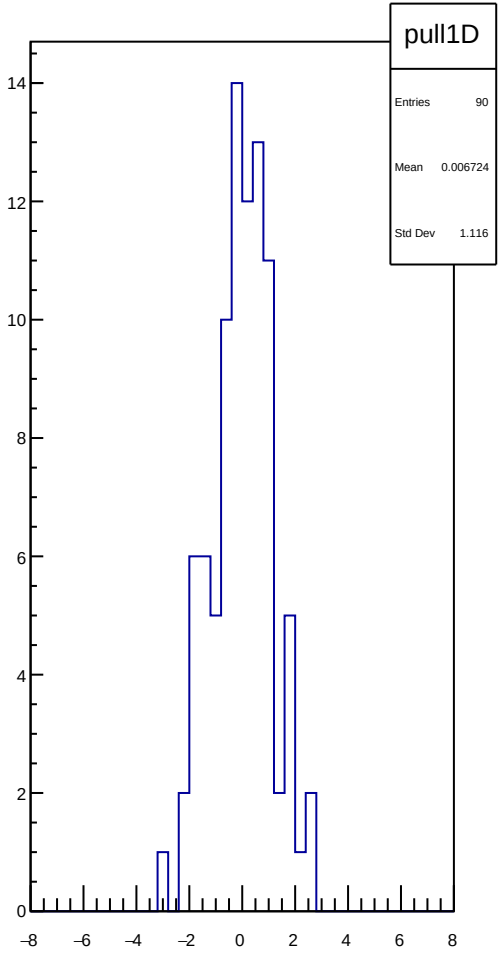

diff_cav4dX_rms vs run
×10^3
520
500
480
460
440
420
400
χ² / ndf 2628 / 89
p0 4.444e+05 ± 335.4

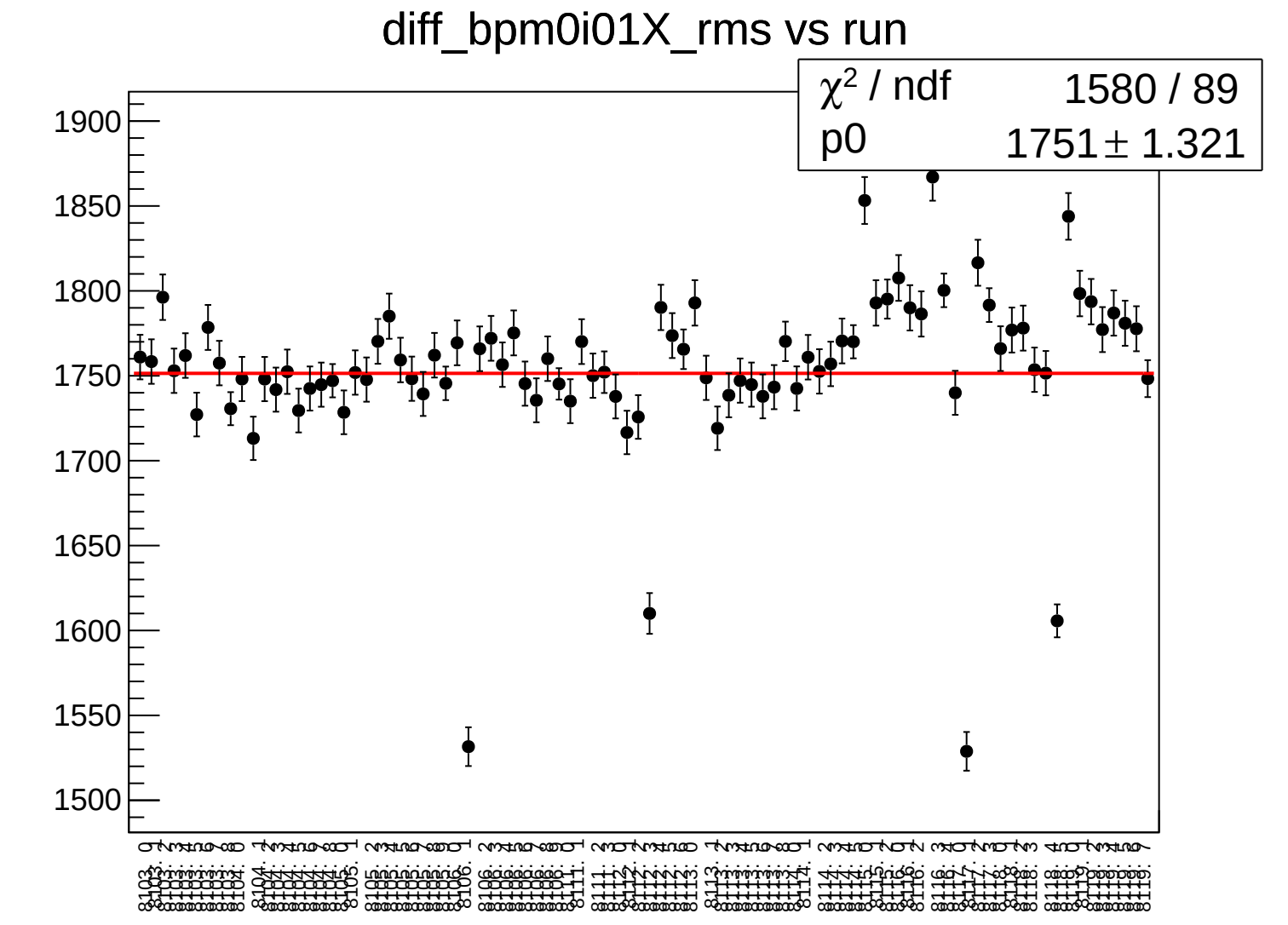

diff_cav4dY_mean vs run
χ² / ndf 70.33 / 89
p0 −233.5 ± 154
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 41.53
Std Dev 80.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

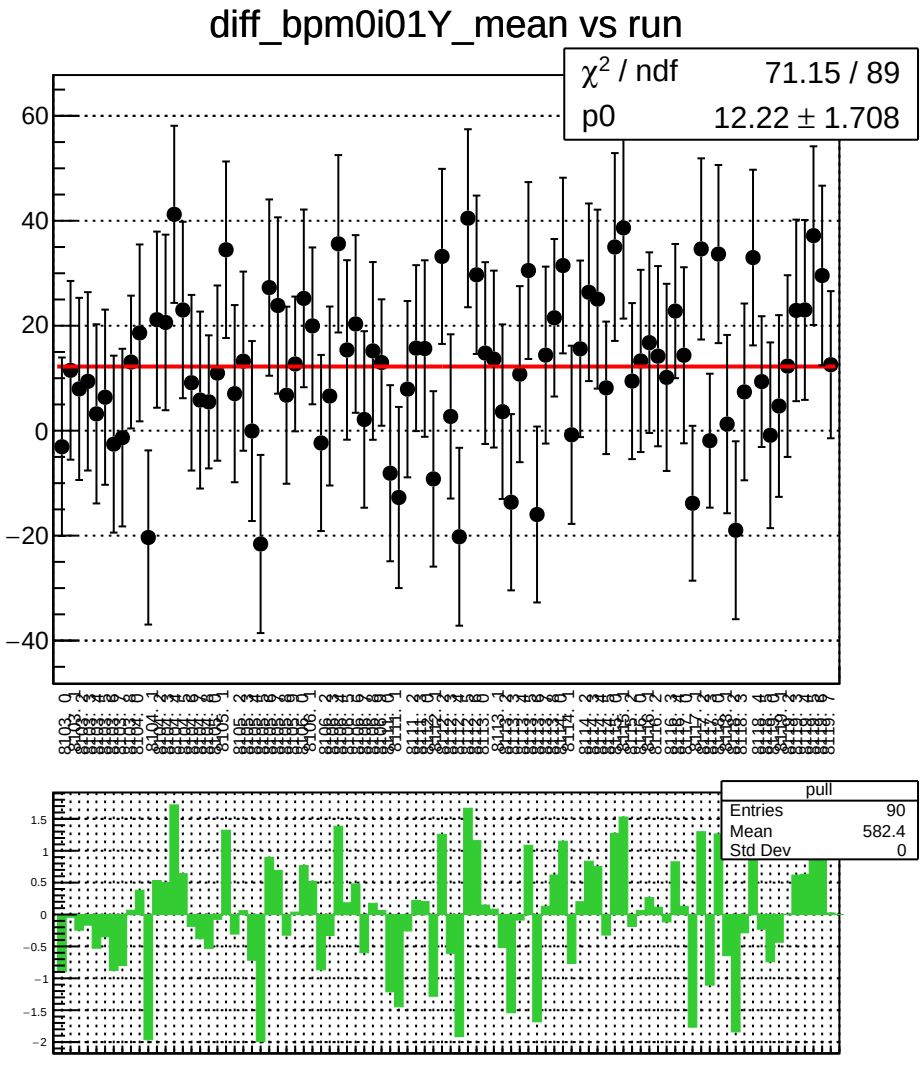

pull1D
Entries 90
Mean −0.01702
Std Dev 0.8838
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

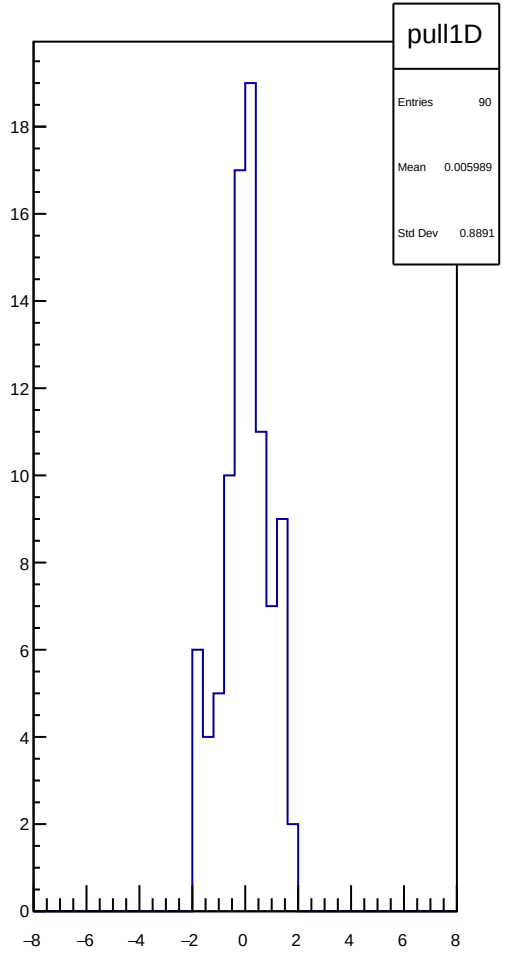

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2.226e+04 / 89
p0 1.435e+05 ± 108.9
200
190
180
170
160
150
140
130
120

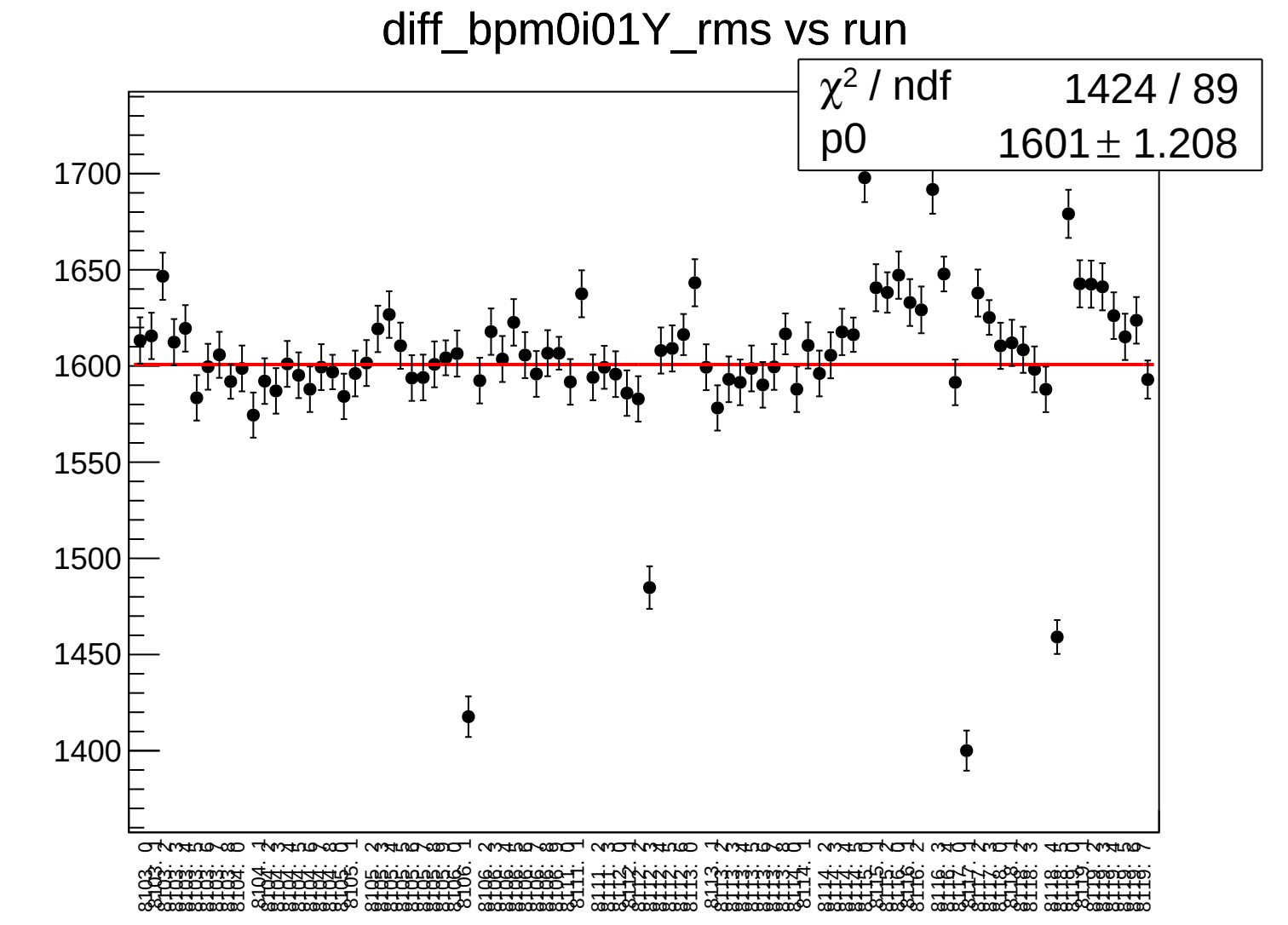

diff_bpm0i01X_mean vs run
χ^2 / ndf 112.2 / 89
p0 61.91 ± 1.869
pull
Entries 90
Mean 1104
Std Dev 0

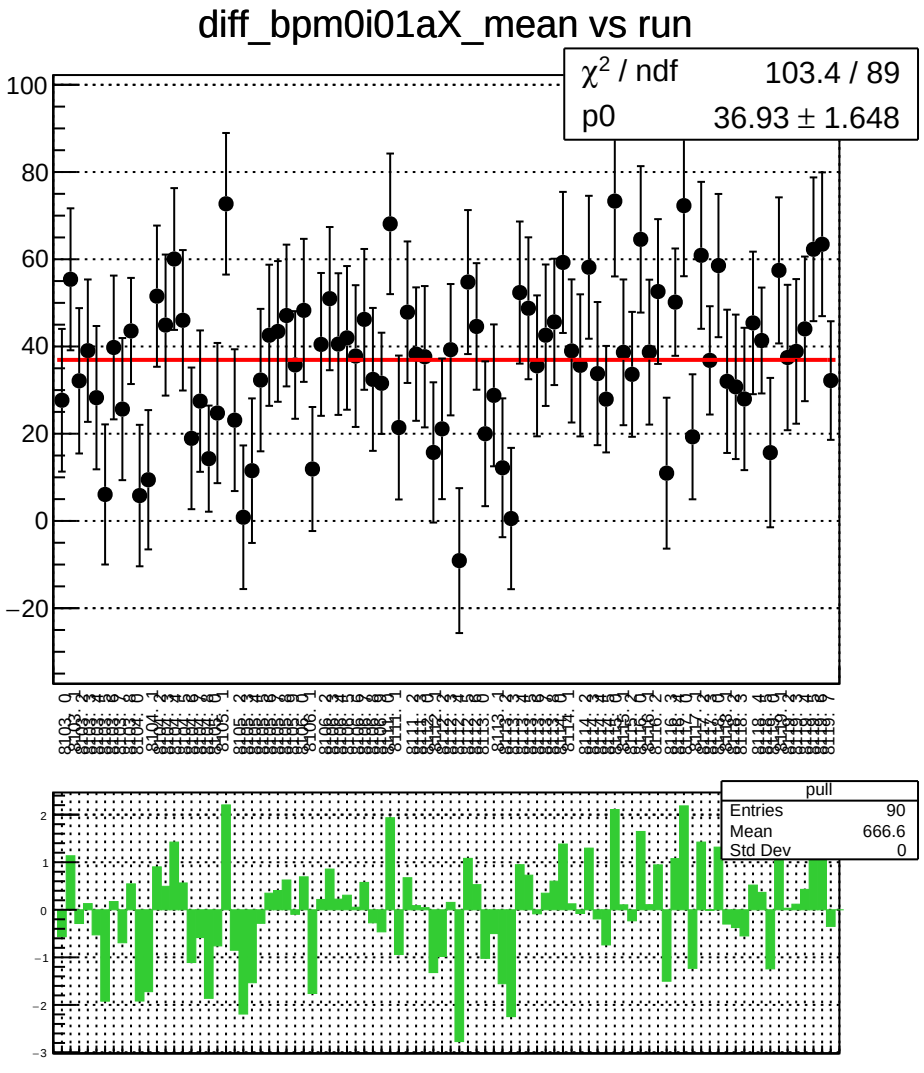

pull1D
Entries 90
Mean 0.006724
Std Dev 1.116

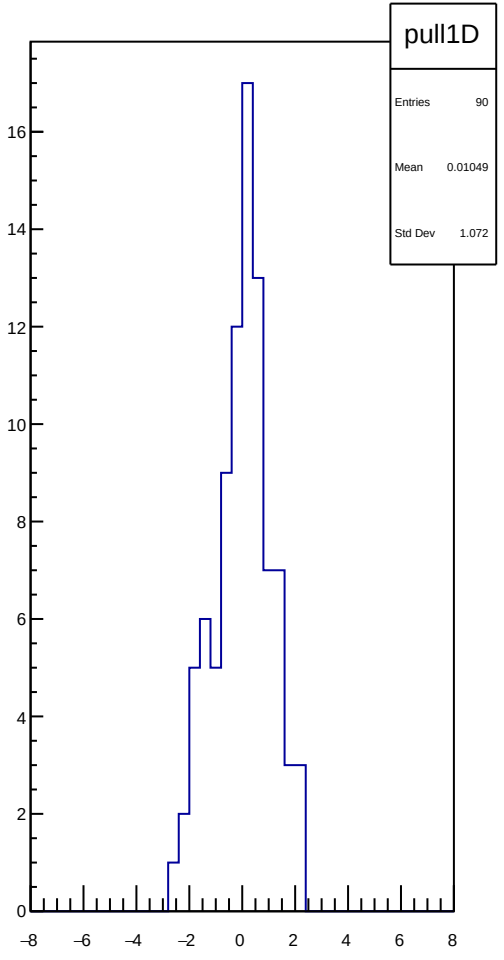

diff_bpm0i01X_rms vs run
χ² / ndf 1580 / 89
p0 1751 ± 1.321
1900
1850
1800
1750
1700
1650
1600
1550
1500

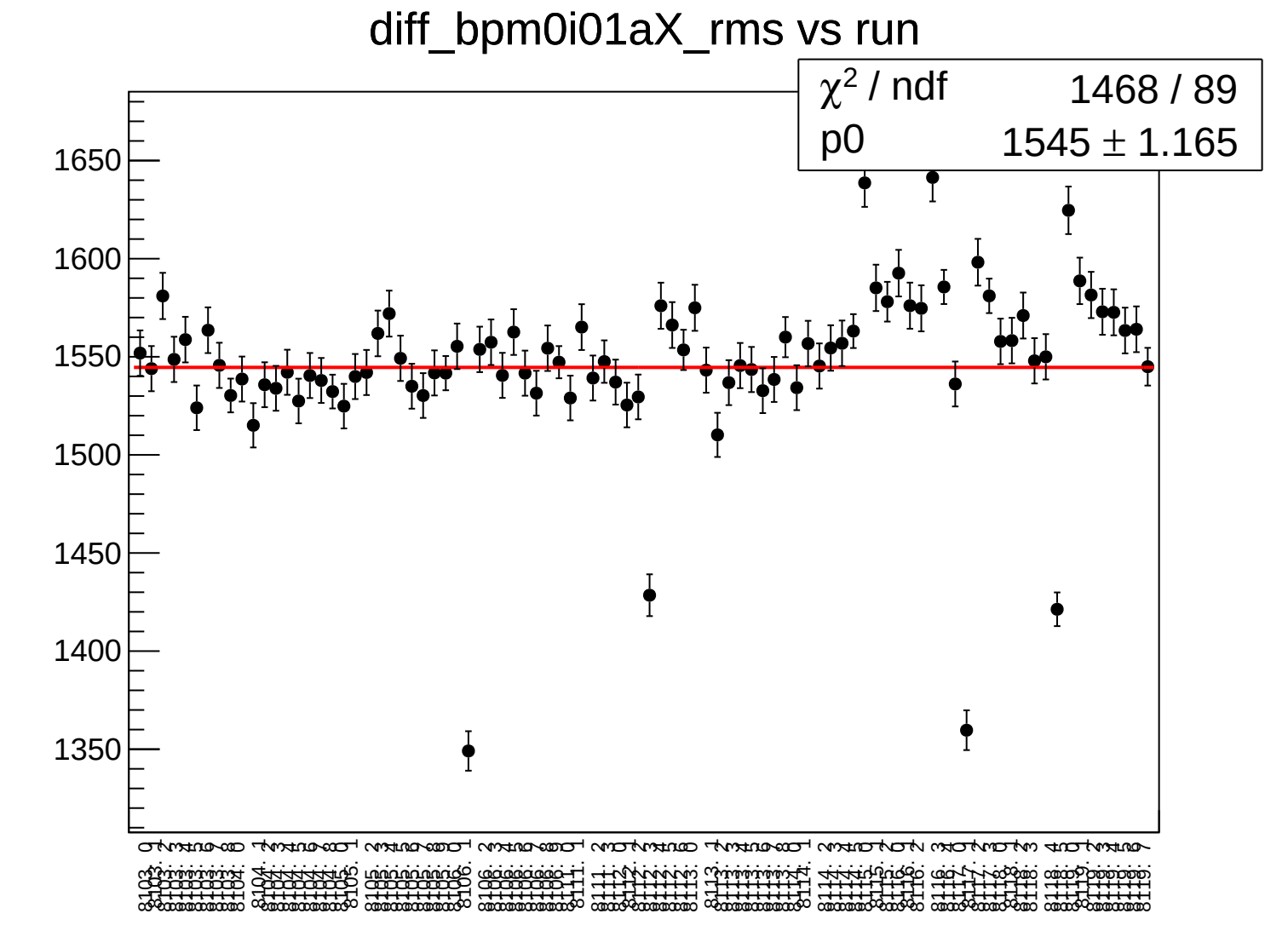

diff_bpm0i01Y_mean vs run
χ^2 / ndf 71.15 / 89
p0 12.22 ± 1.708
pull
Entries 90
Mean 582.4
Std Dev 0

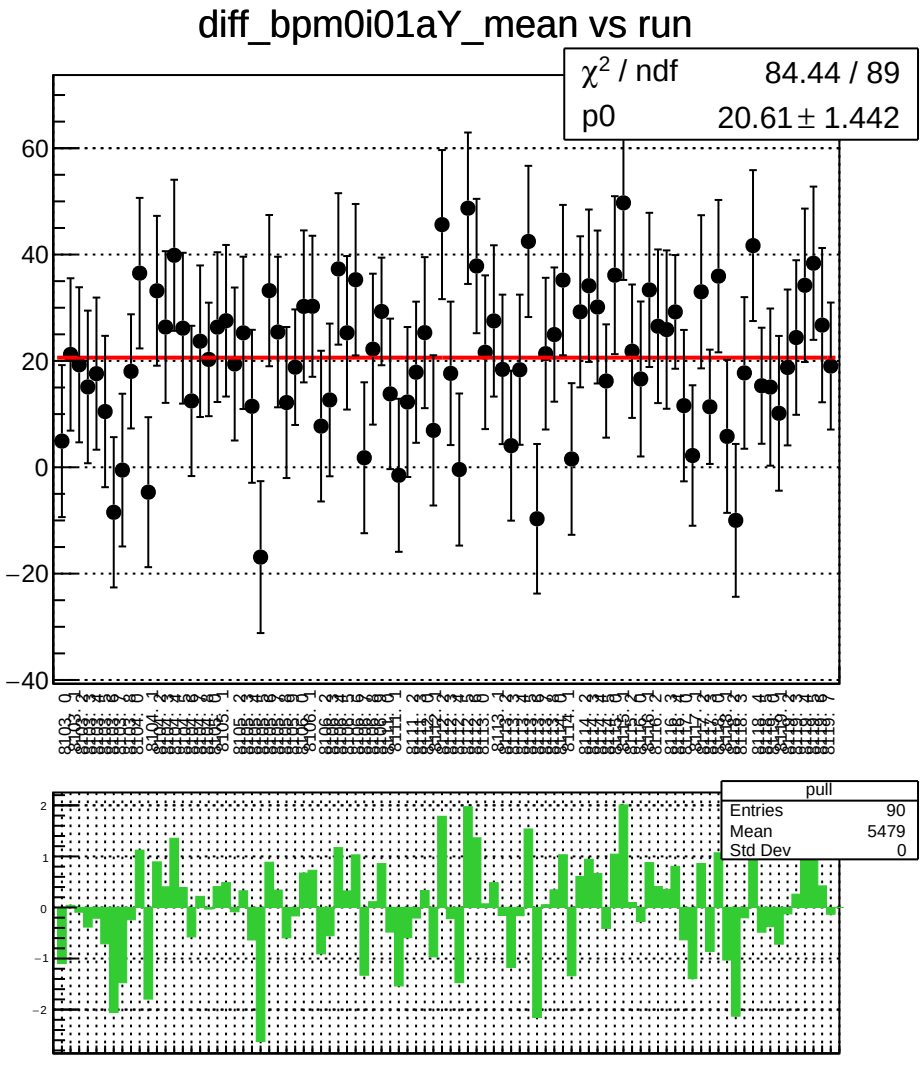

pull1D
Entries 90
Mean 0.005989
Std Dev 0.8891

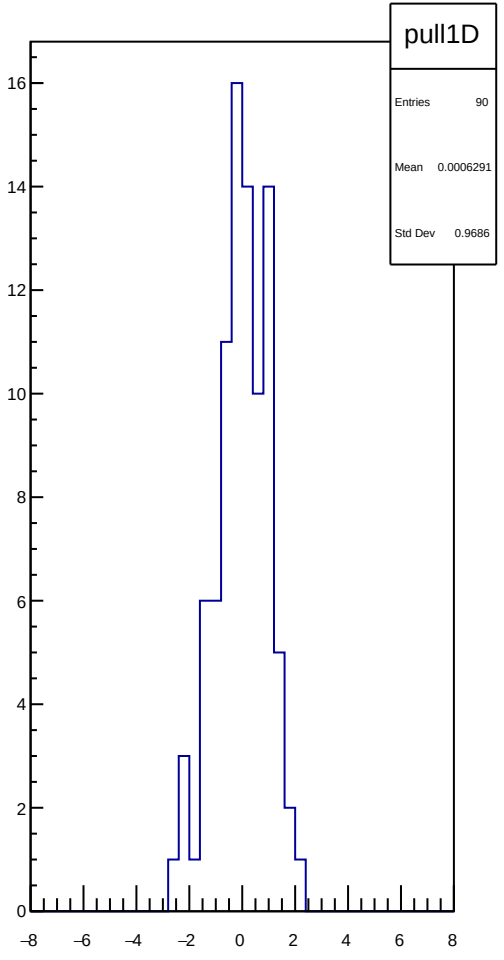

diff_bpm0i01Y_rms vs run
χ² / ndf 1424 / 89
p0 1601 ± 1.208
1700
1650
1600
1550
1500
1450
1400

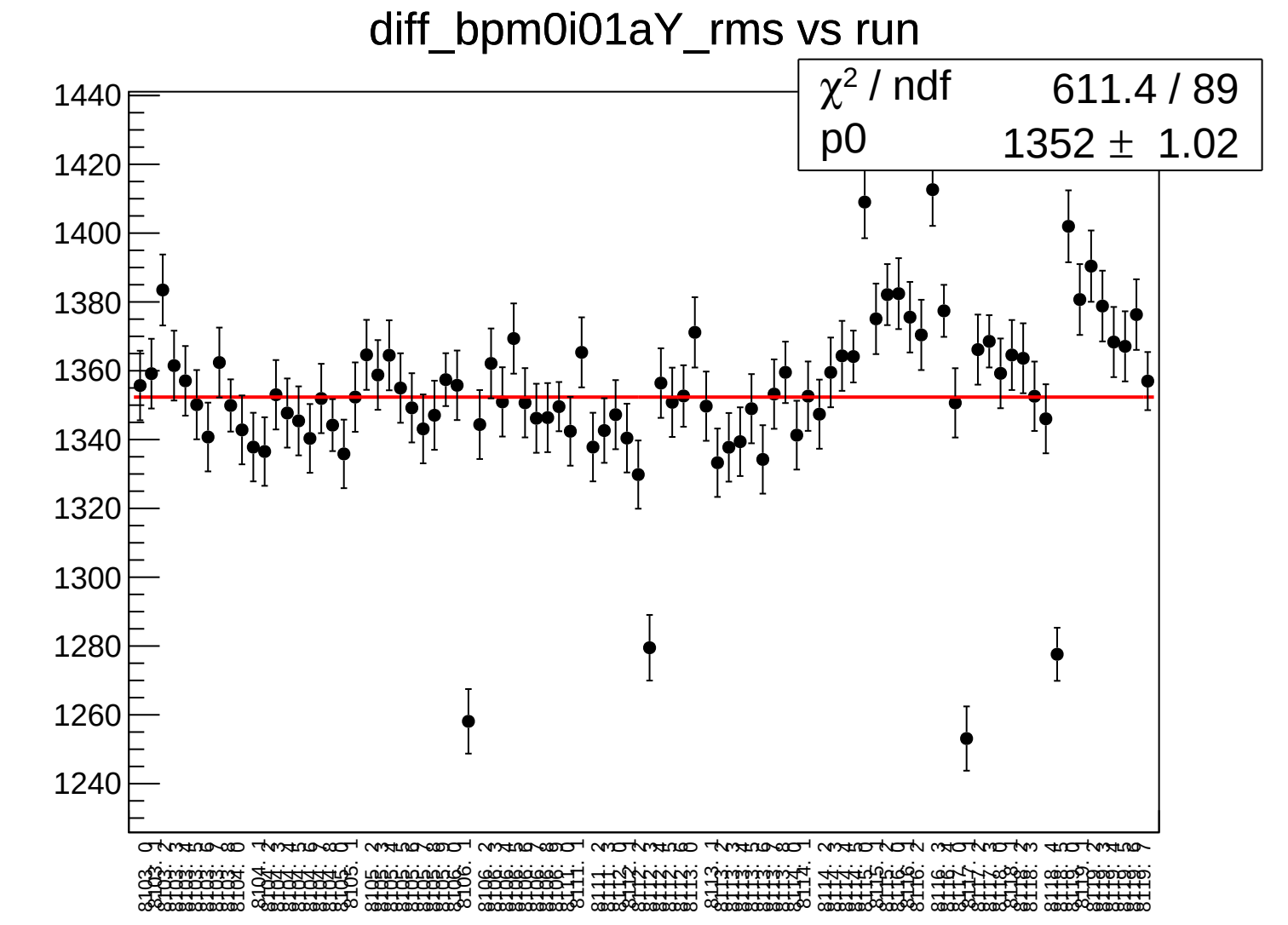

diff_bpm0i01aX_mean vs run
χ² / ndf 103.4 / 89
p0 36.93 ± 1.648
pull
Entries 90
Mean 666.6
Std Dev 0

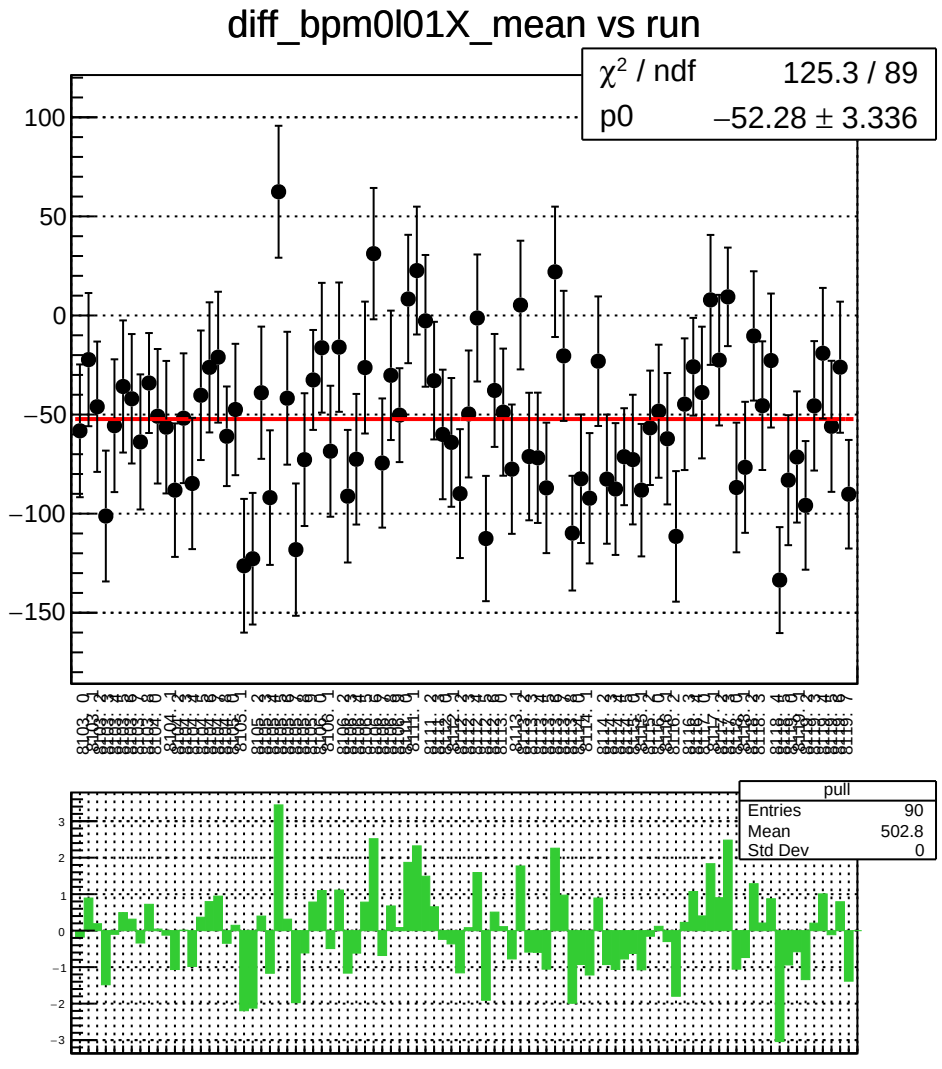

pull1D
Entries 90
Mean 0.01049
Std Dev 1.072

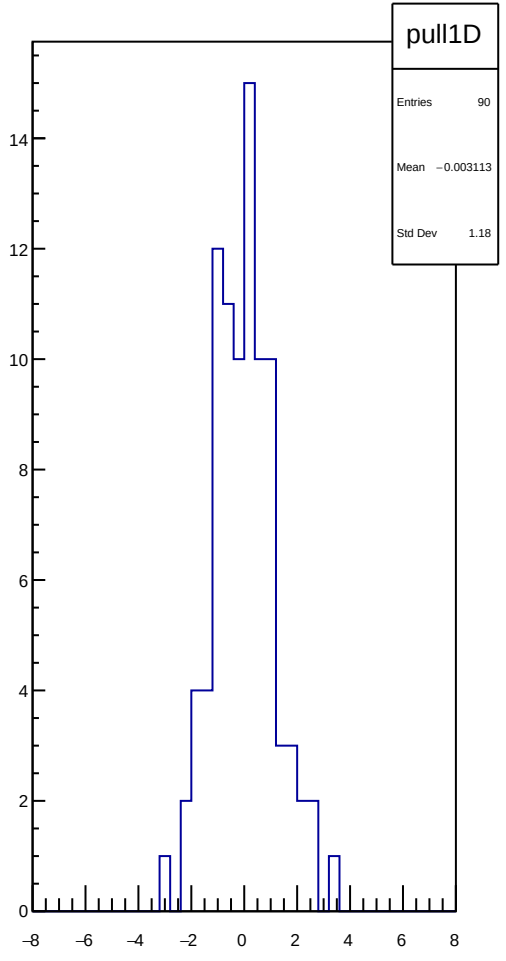

diff_bpm0i01aX_rms vs run
χ² / ndf 1468 / 89
p0 1545 ± 1.165
1650
1600
1550
1500
1450
1400
1350

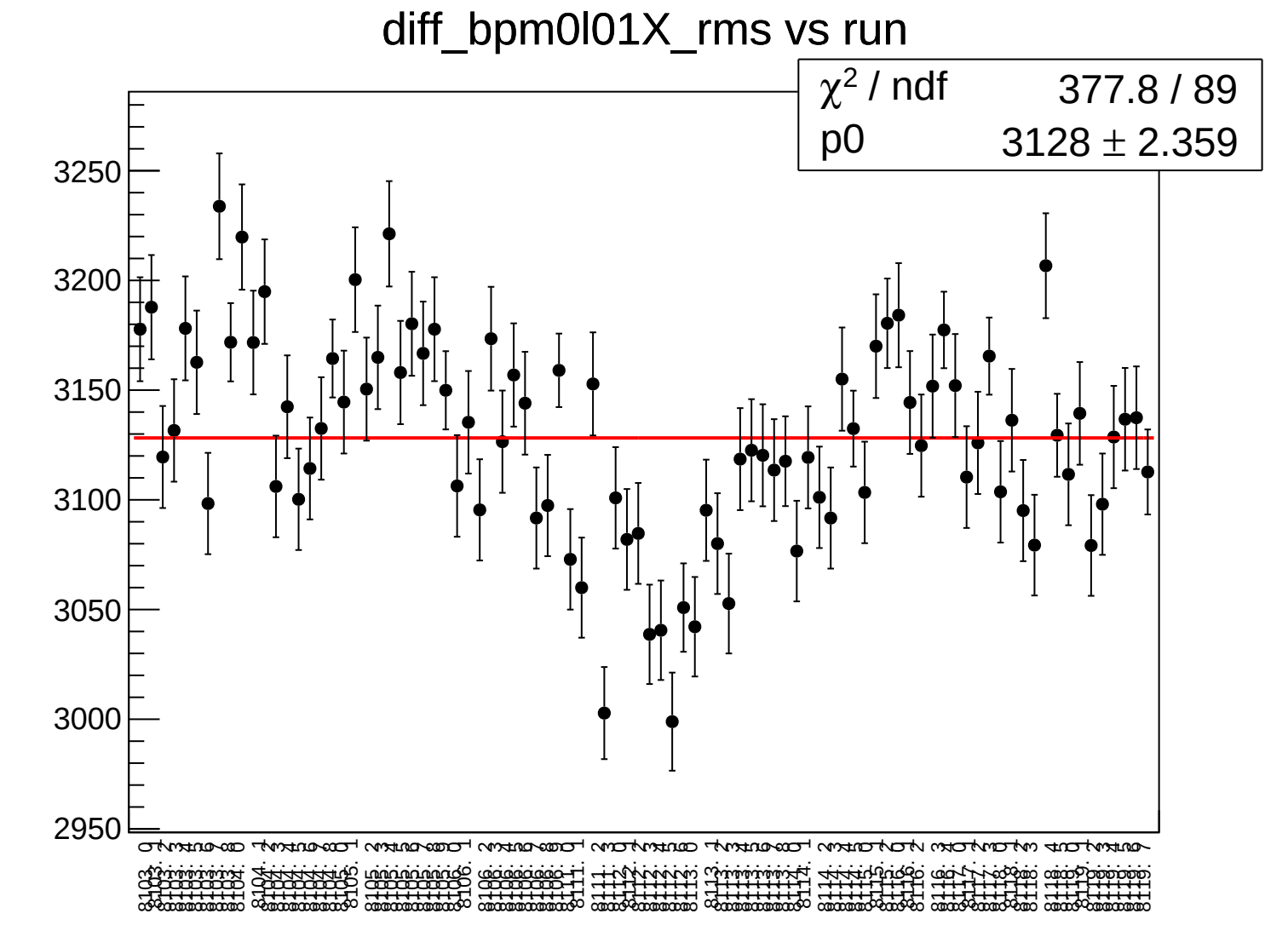

diff_bpm0i01aY_mean vs run
χ² / ndf 84.44 / 89
p0 20.61 ± 1.442
pull
Entries 90
Mean 5479
Std Dev 0

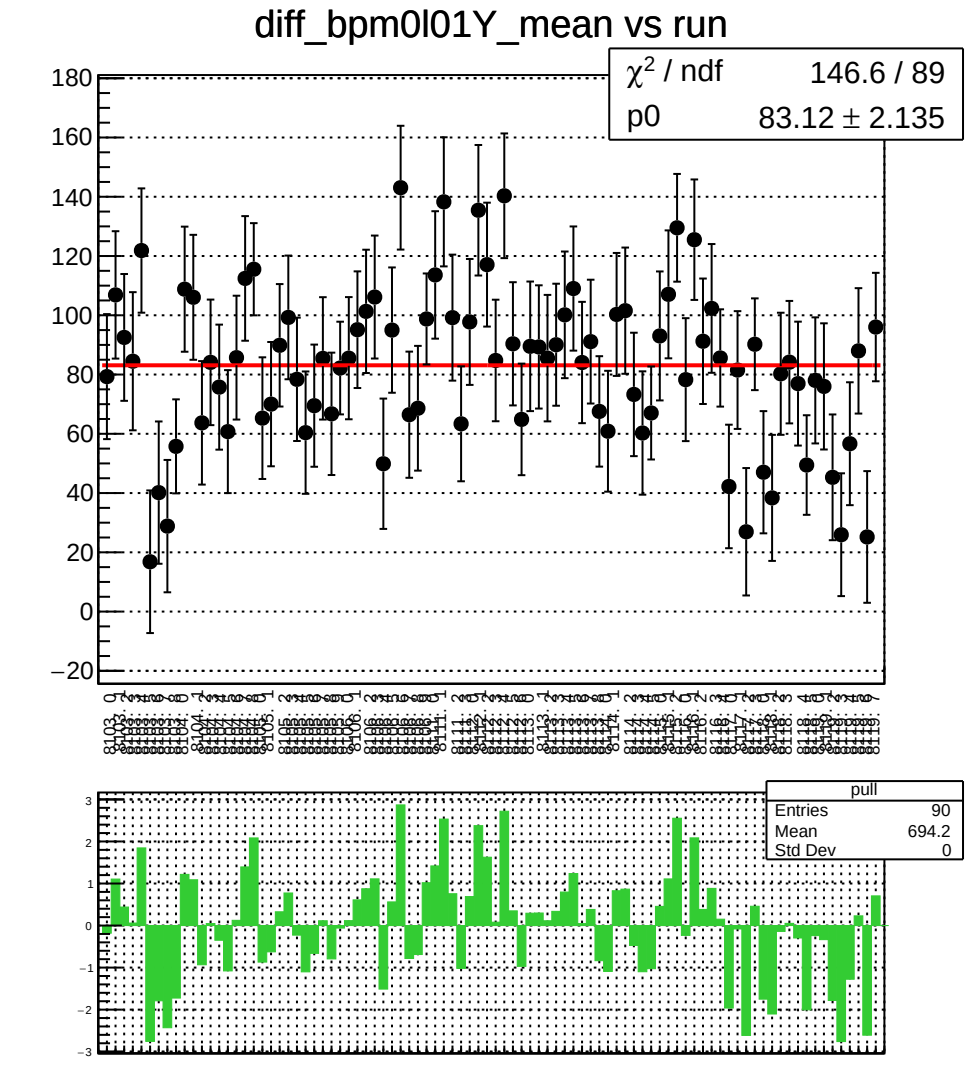

pull1D
Entries 90
Mean 0.0006291
Std Dev 0.9686

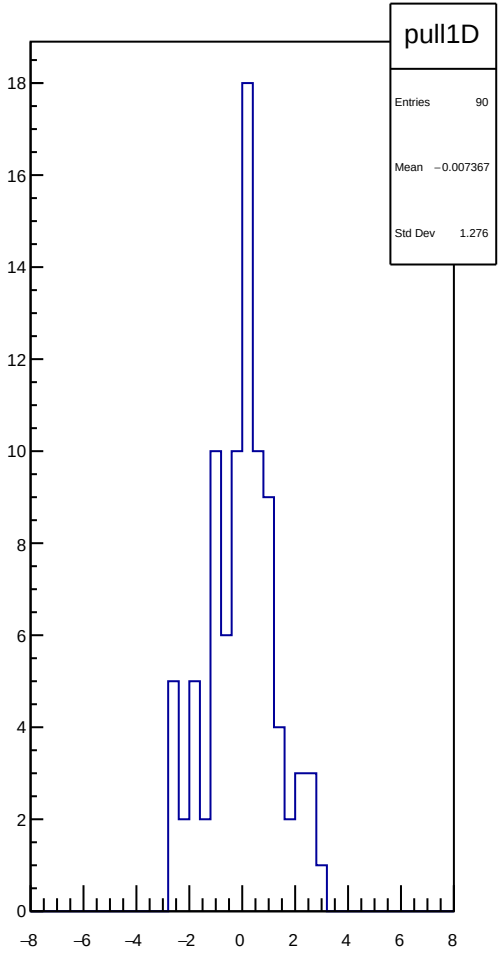

diff_bpm0i01aY_rms vs run
χ² / ndf 611.4 / 89
p0 1352 ± 1.02
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

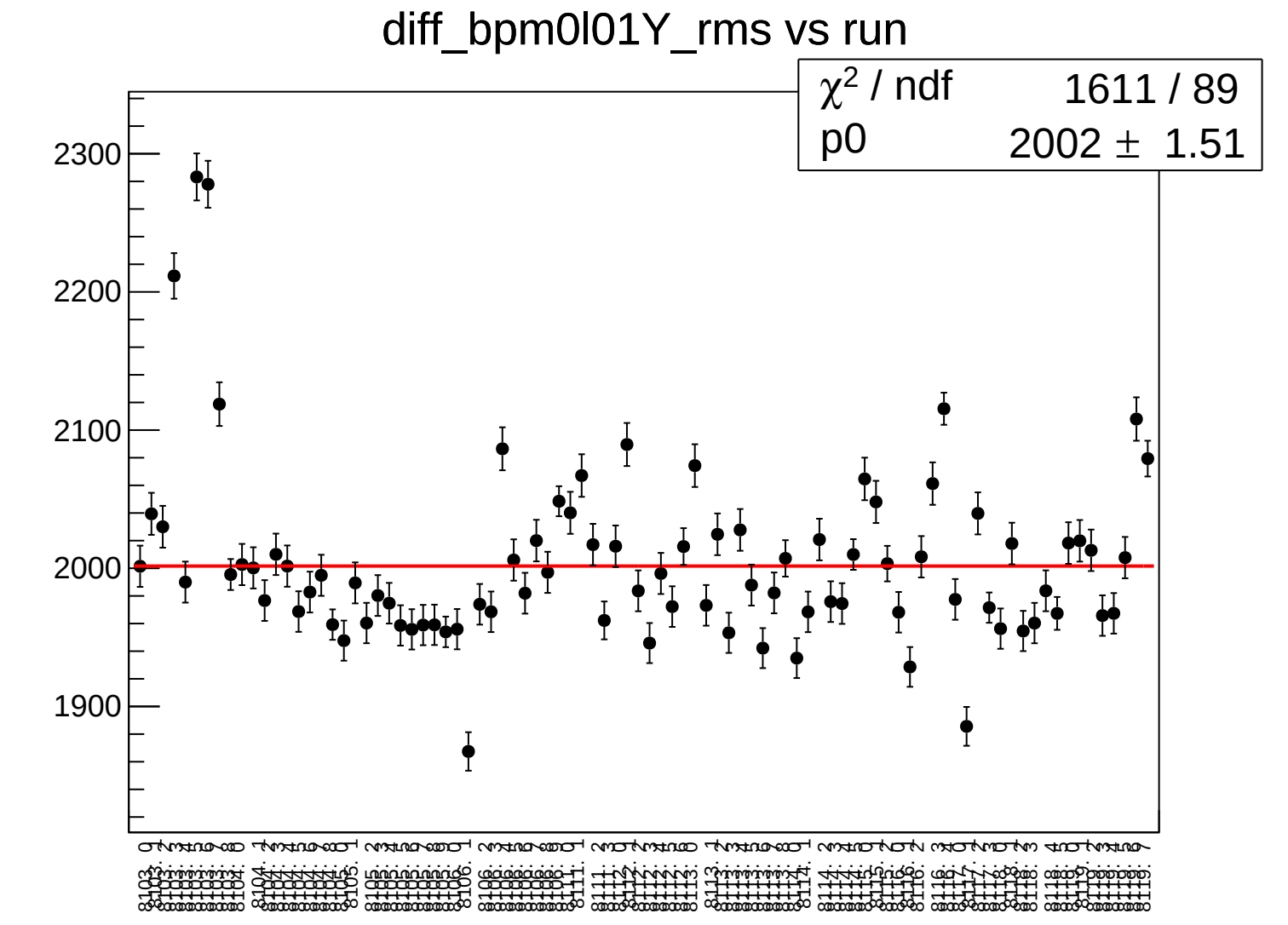

diff_bpm0l01X_mean vs run
χ^2 / ndf 125.3 / 89
p0 −52.28 ± 3.336
100
50
0
−50
−100
−150
pull
Entries 90
Mean 502.8
Std Dev 0
3
2
1
0
−1
−2
−3

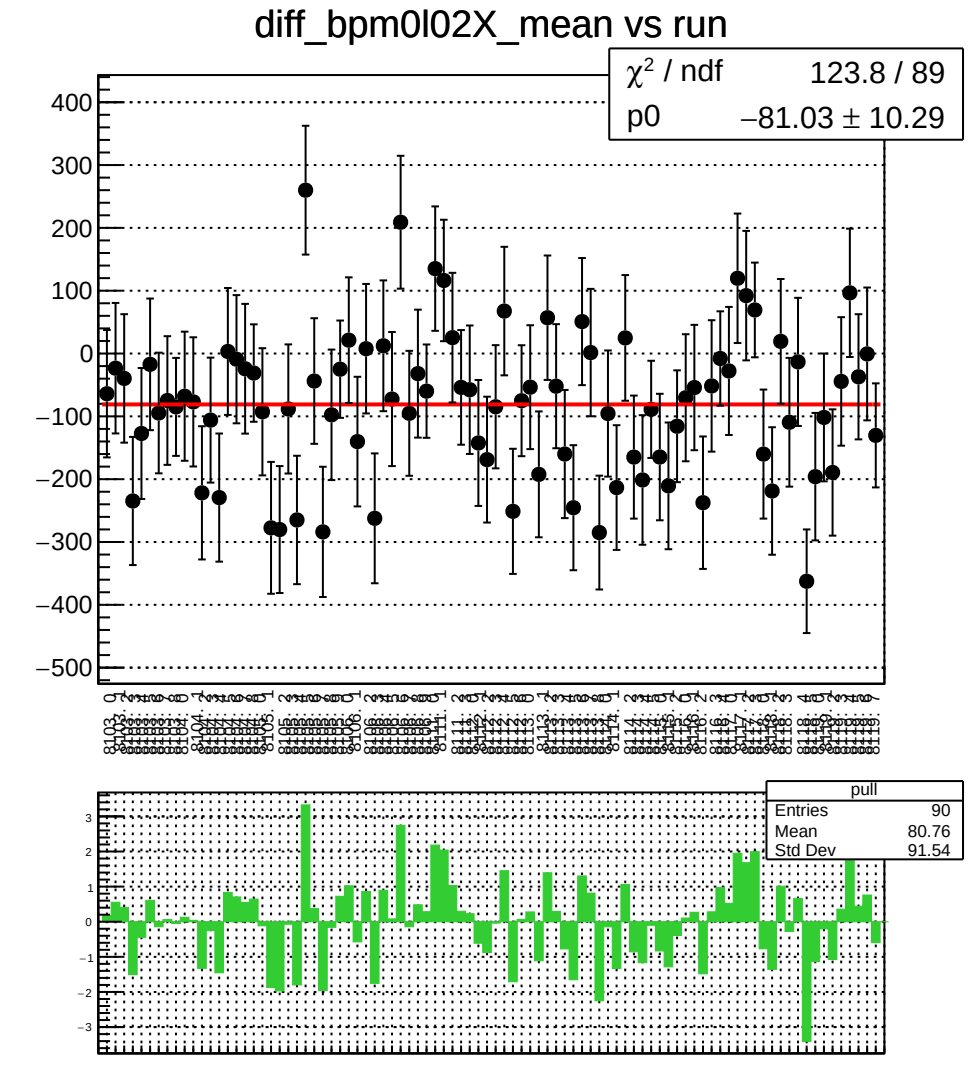

pull1D
Entries 90
Mean −0.003113
Std Dev 1.18
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

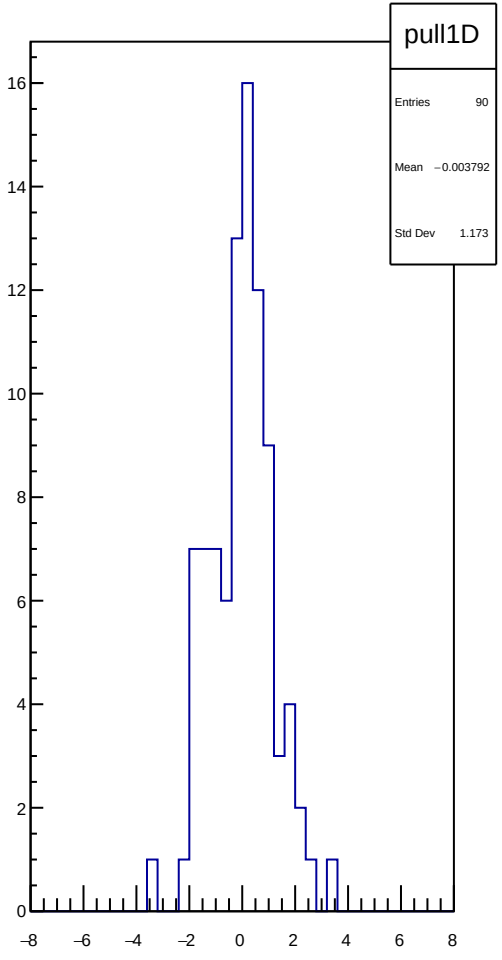

diff_bpm0l01X_rms vs run
χ² / ndf 377.8 / 89
p0 3128 ± 2.359
3250
3200
3150
3100
3050
3000
2950


diff_bpm0l01Y_mean vs run
χ^2 / ndf 146.6 / 89
p0 83.12 ± 2.135
pull
Entries 90
Mean 694.2
Std Dev 0

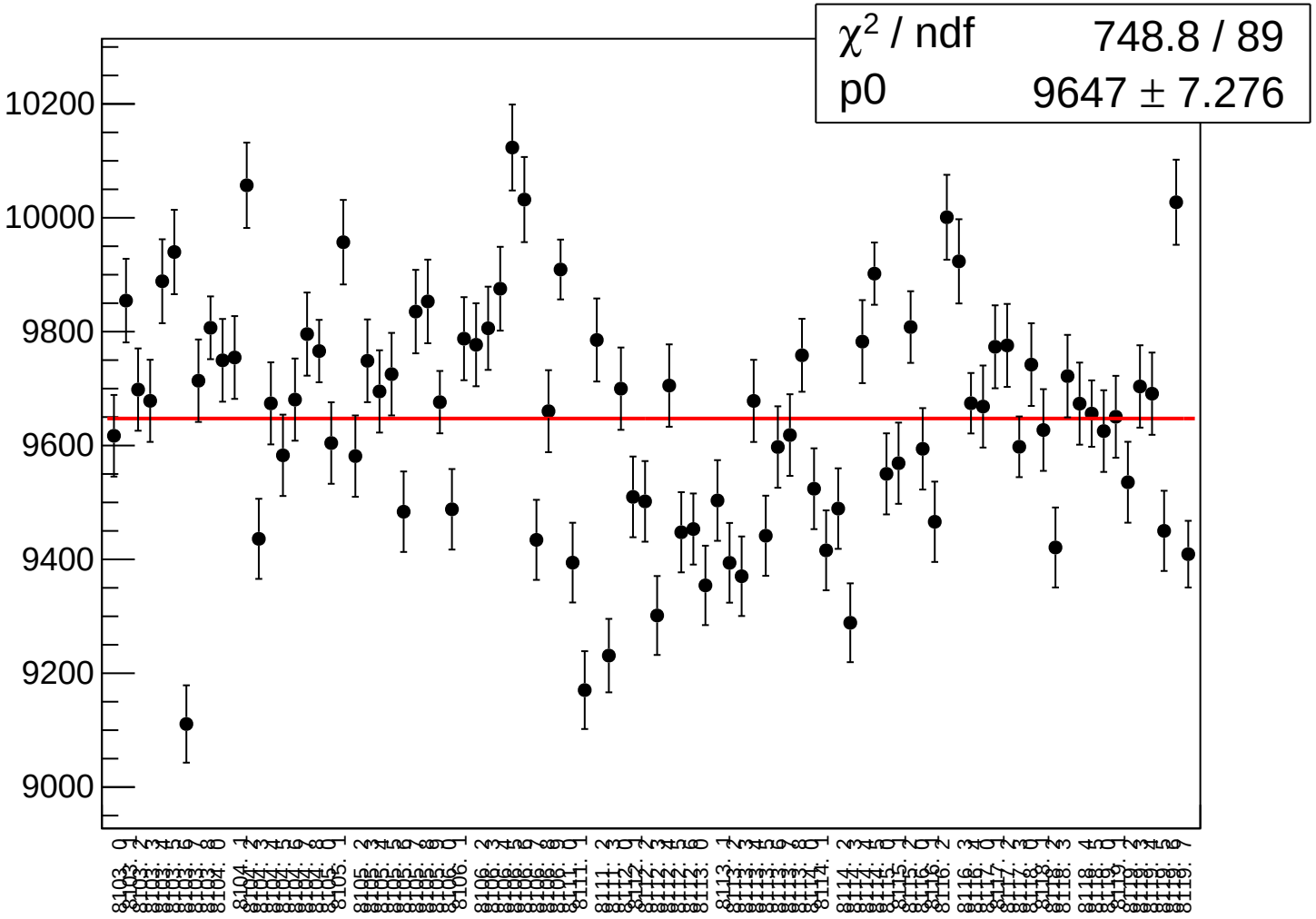

pull1D
Entries 90
Mean −0.007367
Std Dev 1.276

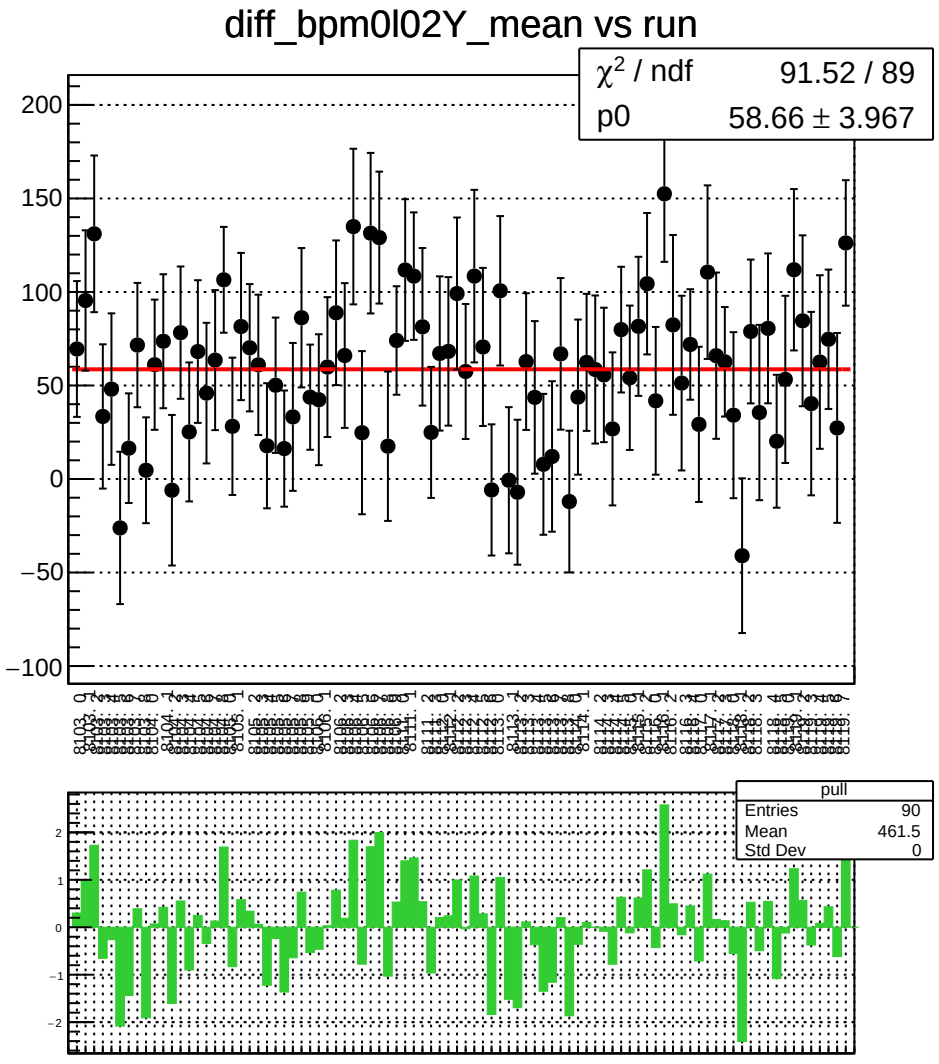

diff_bpm0l01Y_rms vs run
χ² / ndf 1611 / 89
p0 2002 ± 1.51
2300
2200
2100
2000
1900

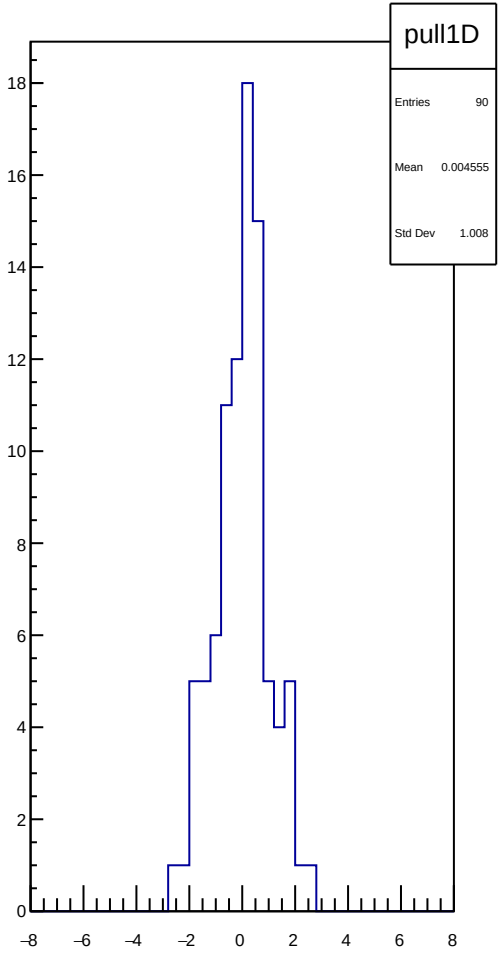

diff_bpm0l02X_mean vs run
χ² / ndf 123.8 / 89
p0 −81.03 ± 10.29
pull
Entries 90
Mean 80.76
Std Dev 91.54

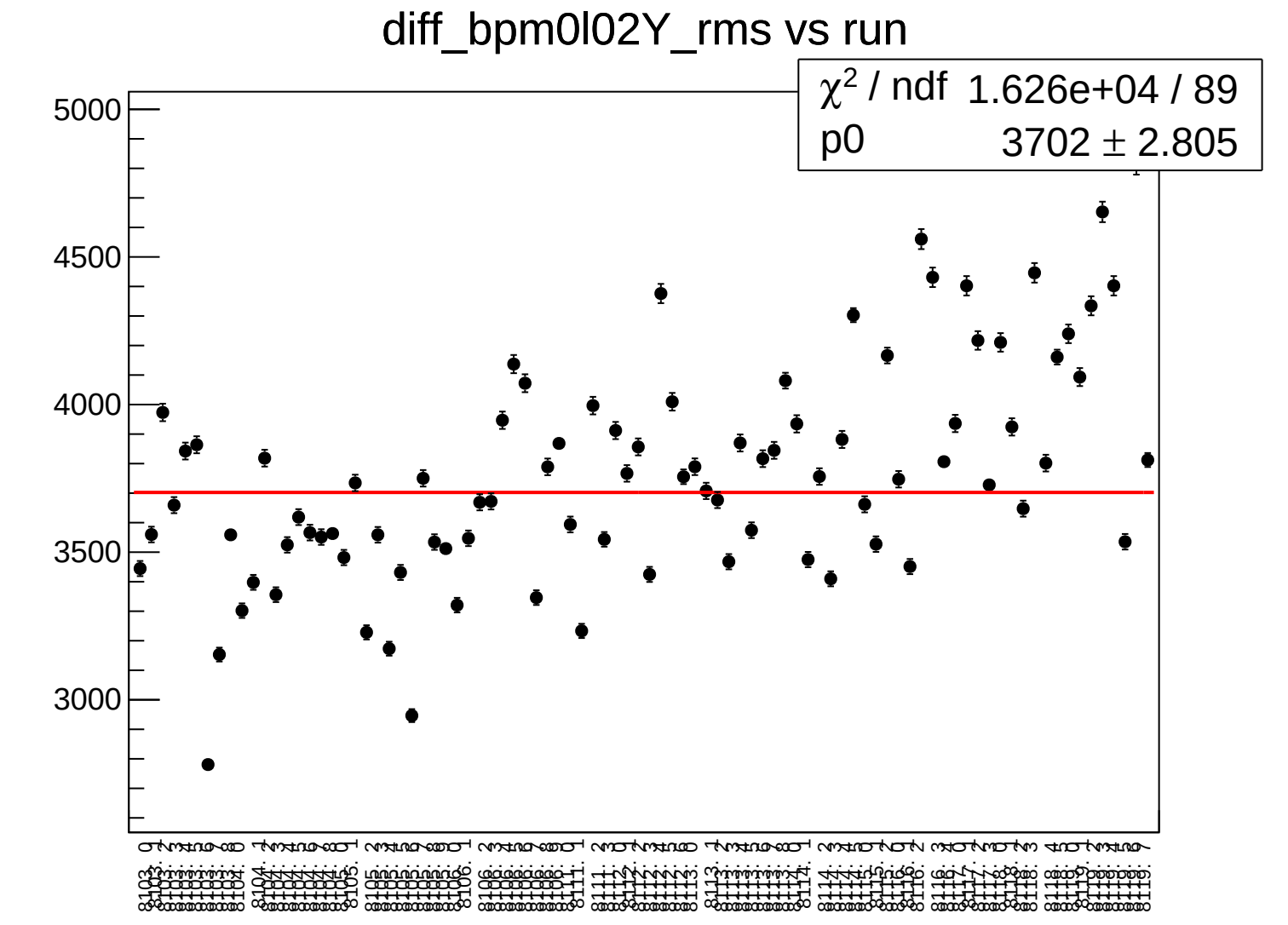

pull1D
Entries 90
Mean −0.003792
Std Dev 1.173

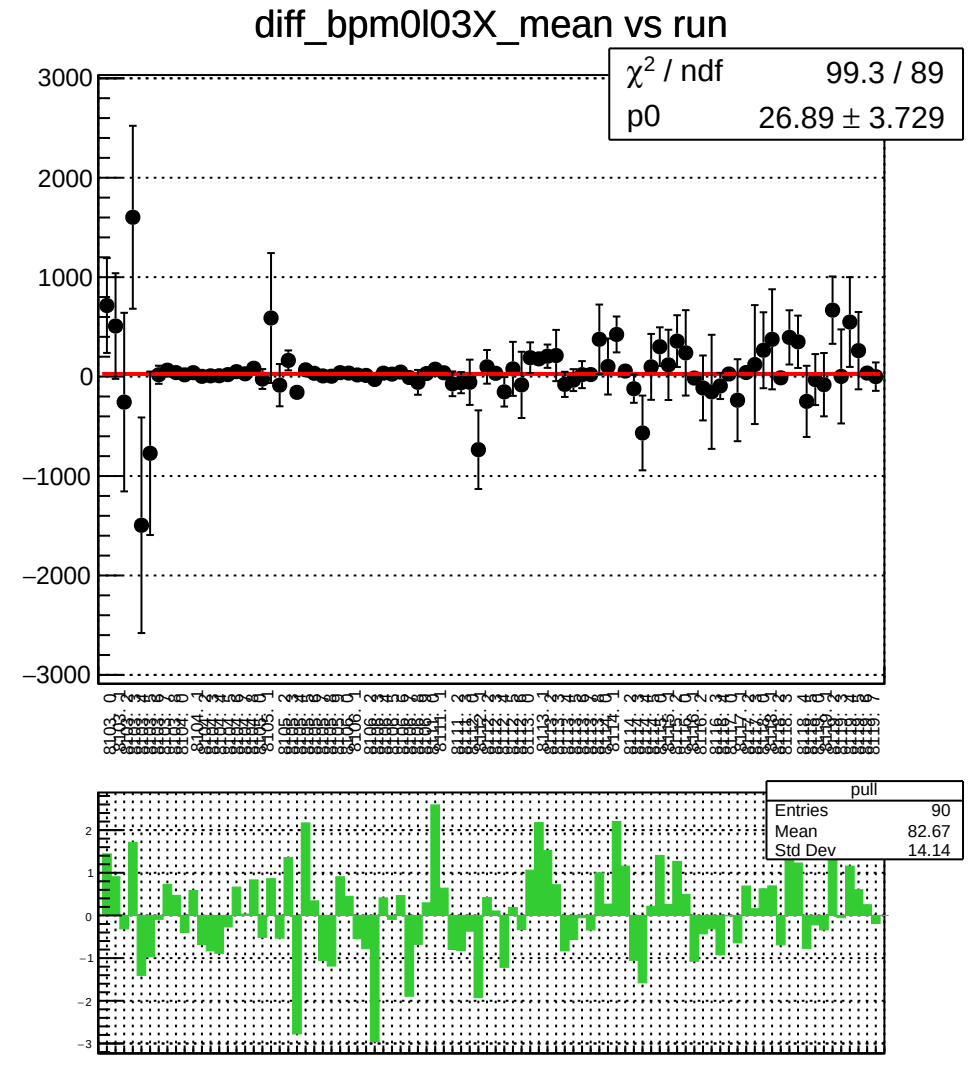
diff_bpm0l02X_rms vs run

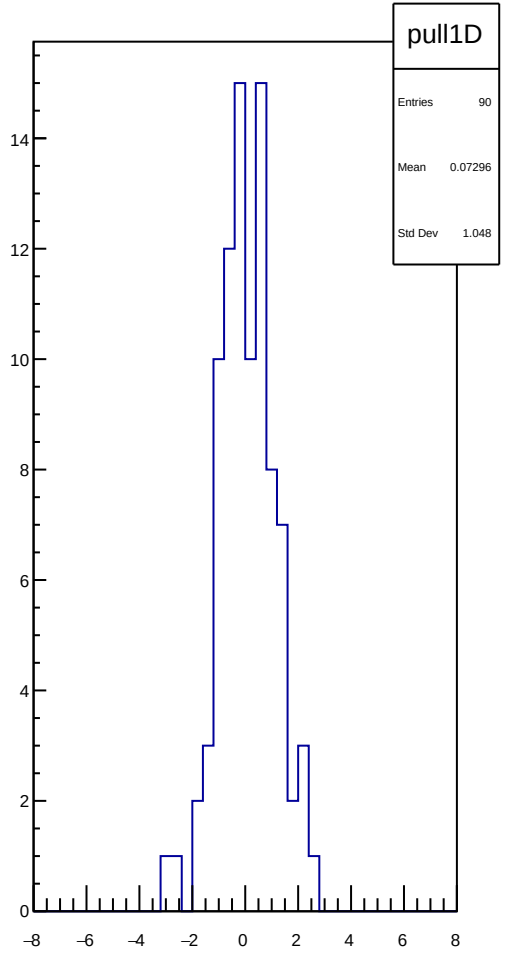


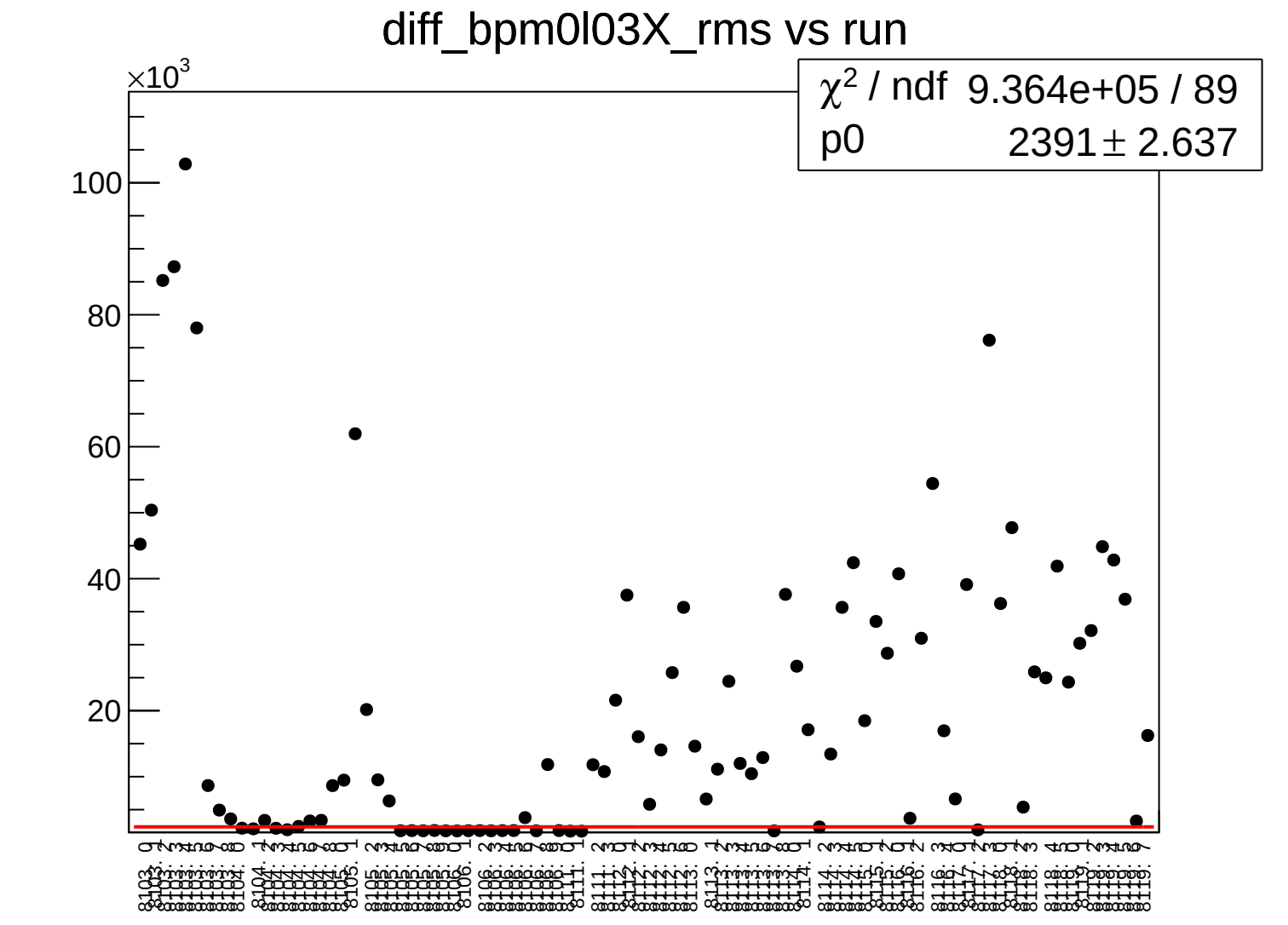

diff_bpm0l02Y_mean vs run
χ^2 / ndf 91.52 / 89
p0 58.66 ± 3.967
pull
Entries 90
Mean 461.5
Std Dev 0

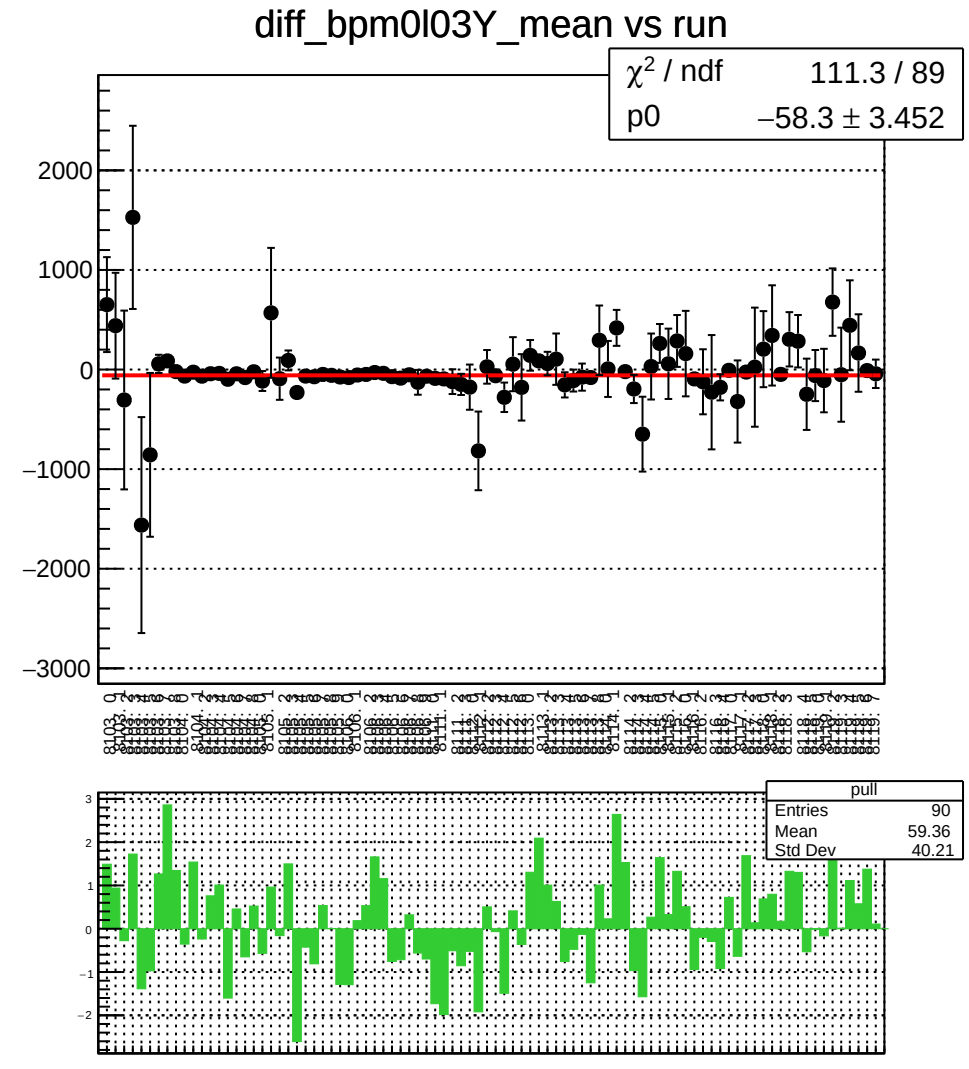

pull1D
Entries 90
Mean 0.004555
Std Dev 1.008

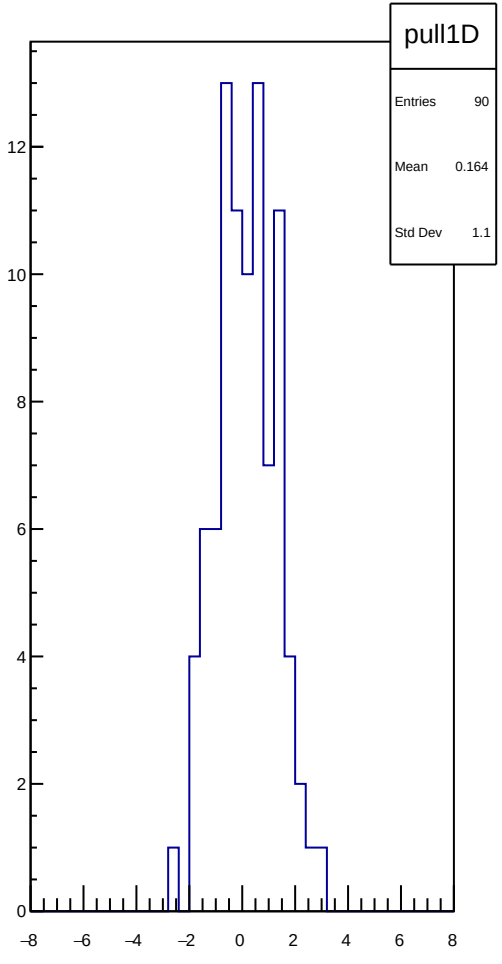

diff_bpm0l02Y_rms vs run
χ² / ndf 1.626e+04 / 89
p0 3702 ± 2.805
5000
4500
4000
3500
3000

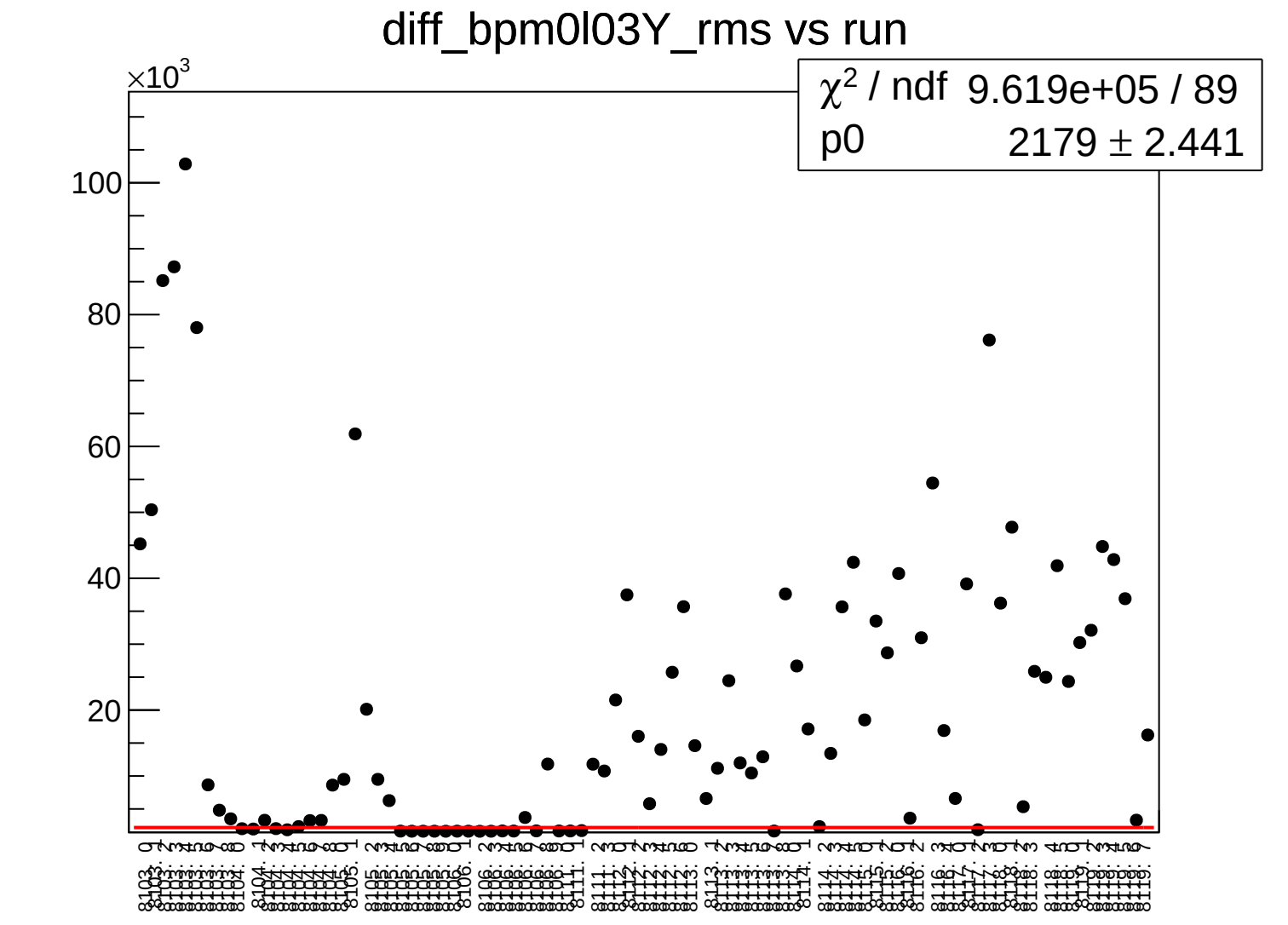

diff_bpm0l03X_mean vs run
χ² / ndf 99.3 / 89
p0 26.89 ± 3.729
pull
Entries 90
Mean 82.67
Std Dev 14.14

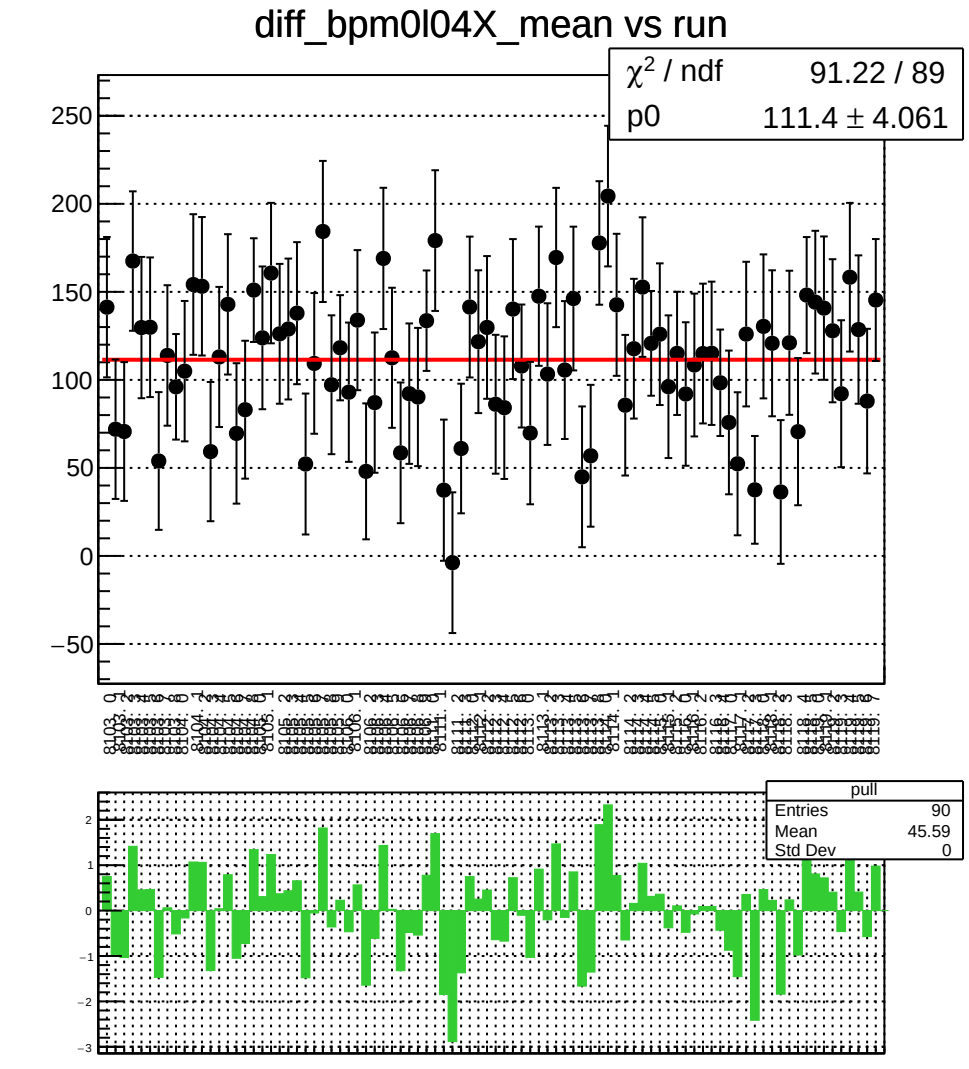

pull1D
Entries 90
Mean 0.07296
Std Dev 1.048

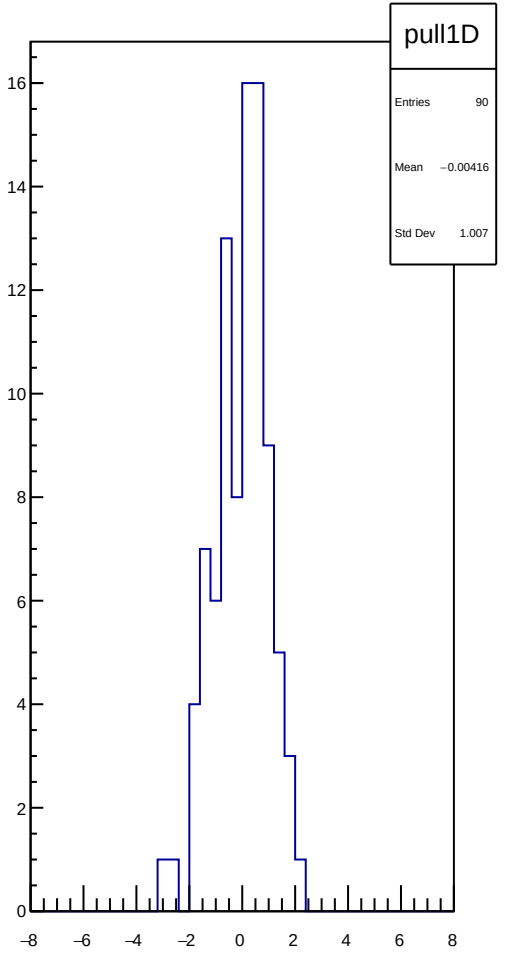

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 9.364e+05 / 89
p0 2391 ± 2.637
100
80
60
40
20

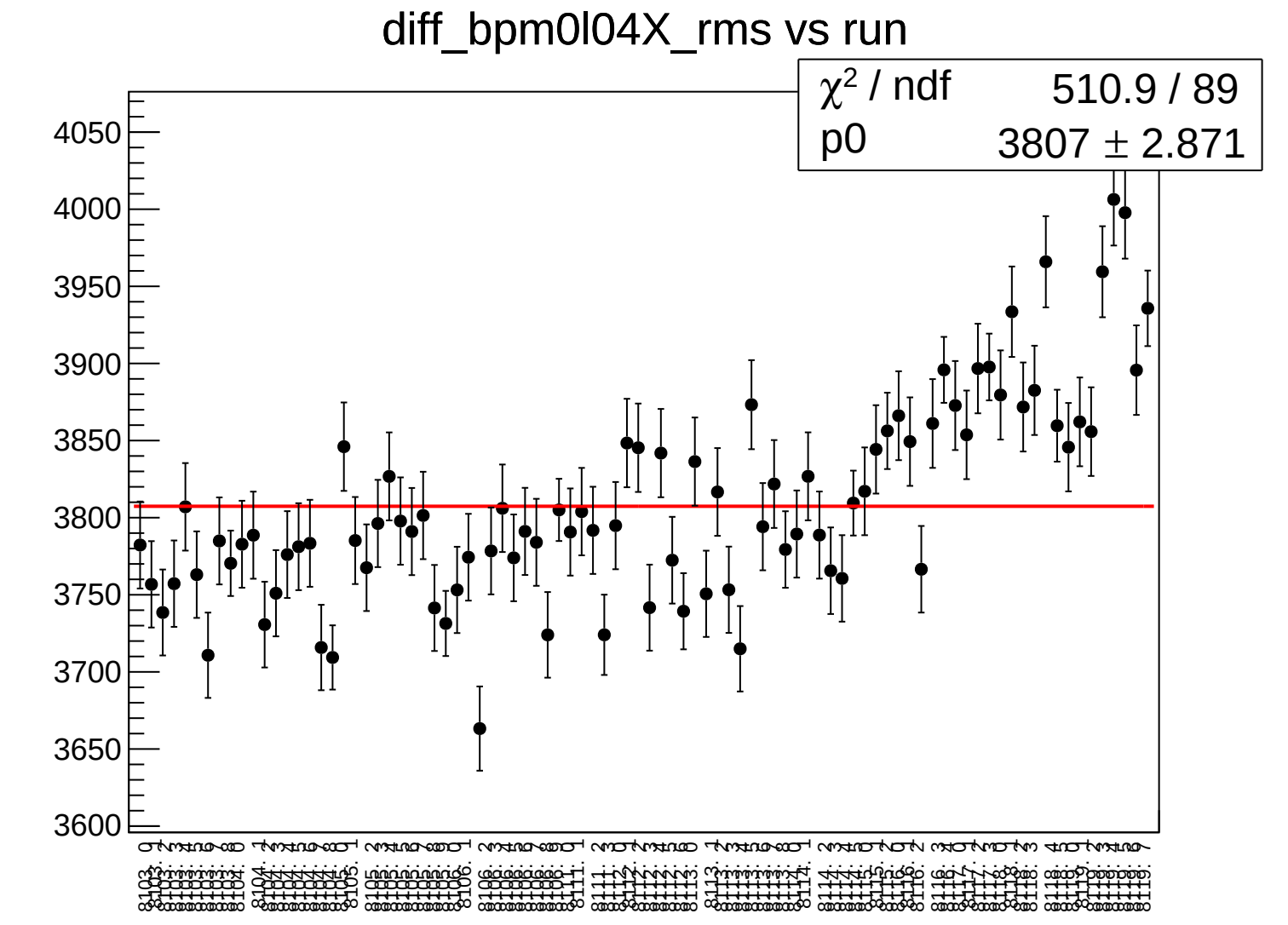

diff_bpm0l03Y_mean vs run
χ² / ndf 111.3 / 89
p0 −58.3 ± 3.452
pull
Entries 90
Mean 59.36
Std Dev 40.21

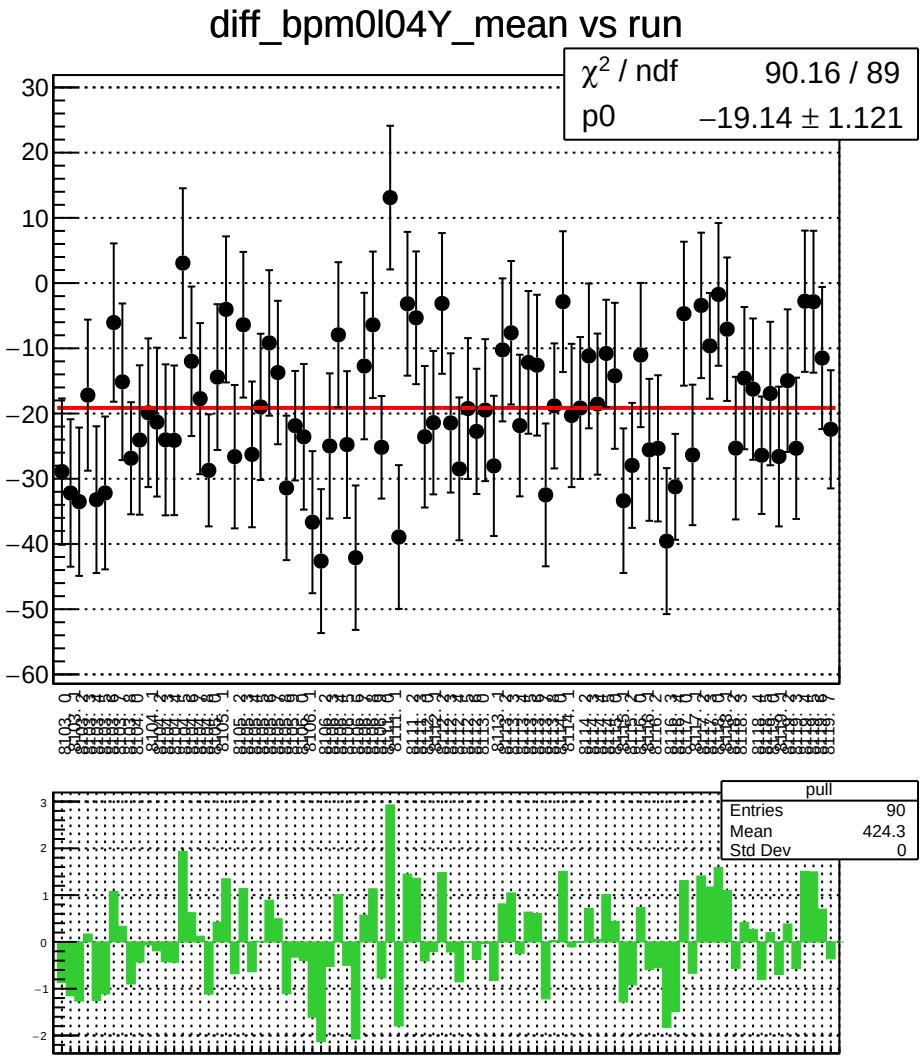

pull1D
Entries 90
Mean 0.164
Std Dev 1.1

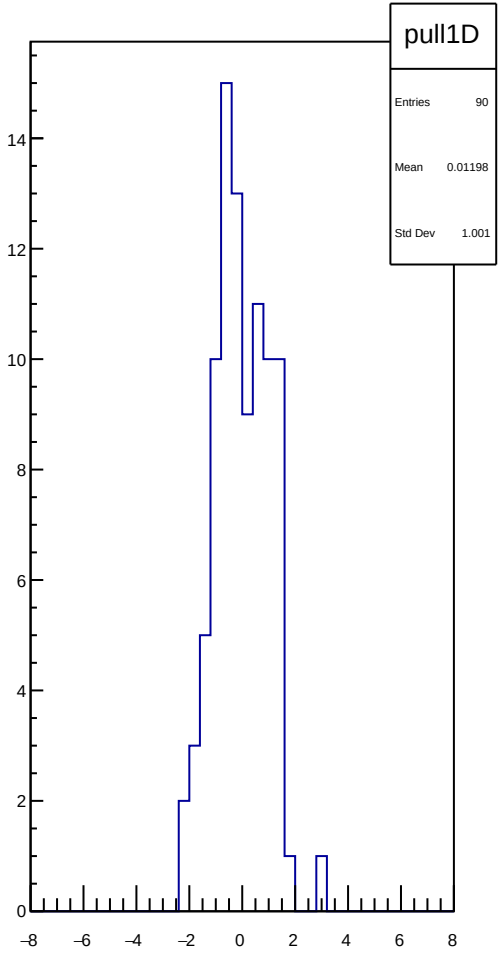

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 9.619e+05 / 89
p0 2179 ± 2.441
100
80
60
40
20

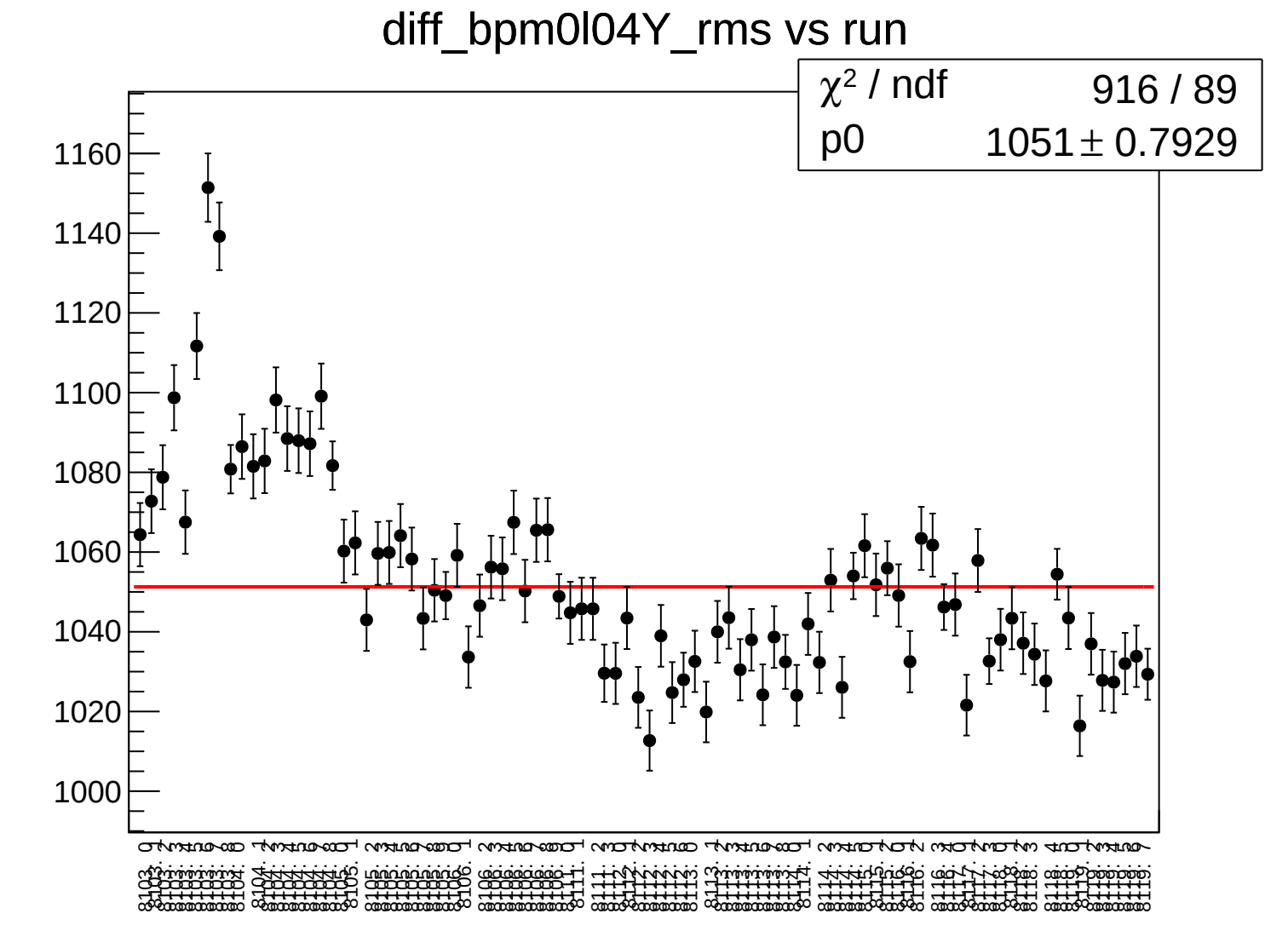

diff_bpm0l04X_mean vs run
χ² / ndf 91.22 / 89
p0 111.4 ± 4.061
pull
Entries 90
Mean 45.59
Std Dev 0

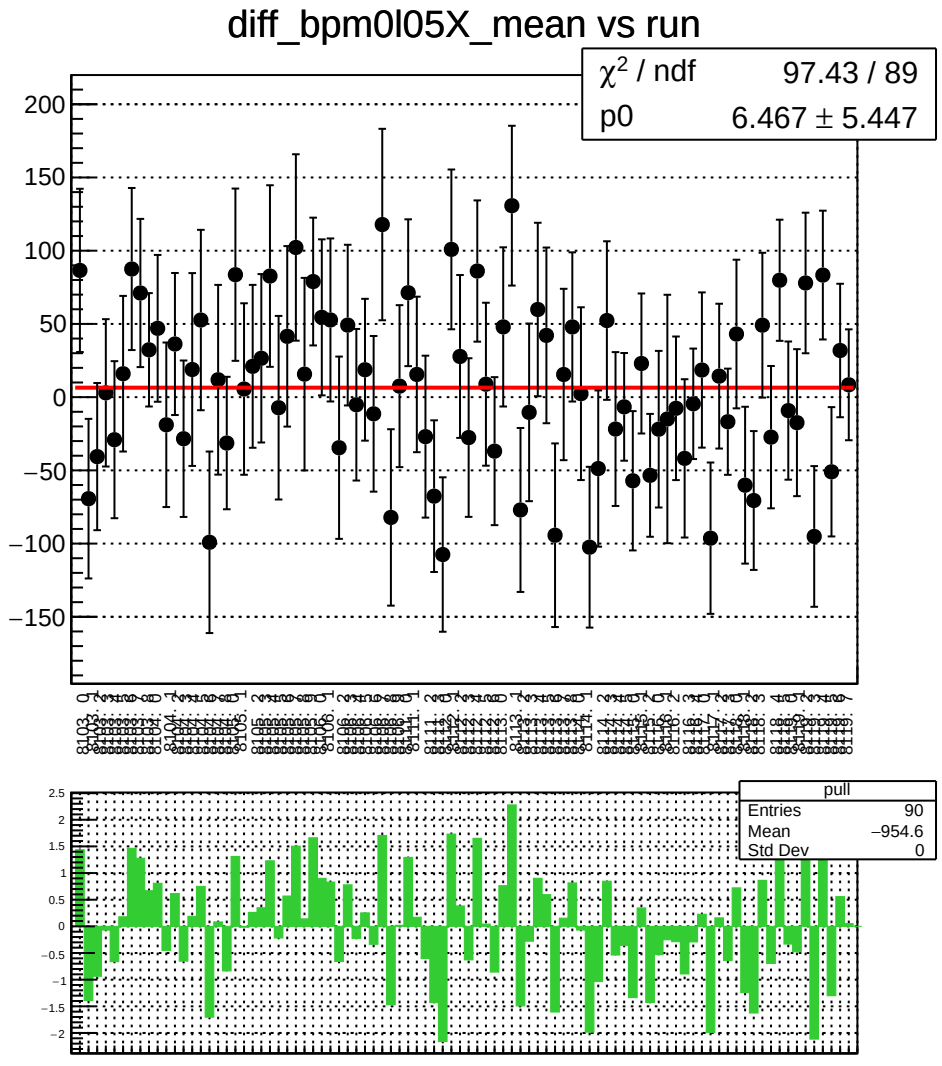

pull1D
Entries 90
Mean −0.00416
Std Dev 1.007

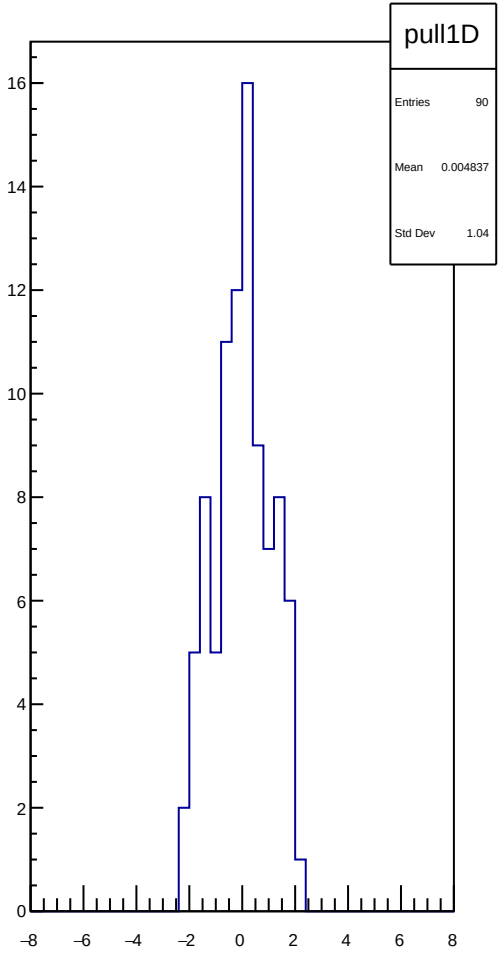

diff_bpm0l04X_rms vs run
χ² / ndf 510.9 / 89
p0 3807 ± 2.871
4050
4000
3950
3900
3850
3800
3750
3700
3650
3600

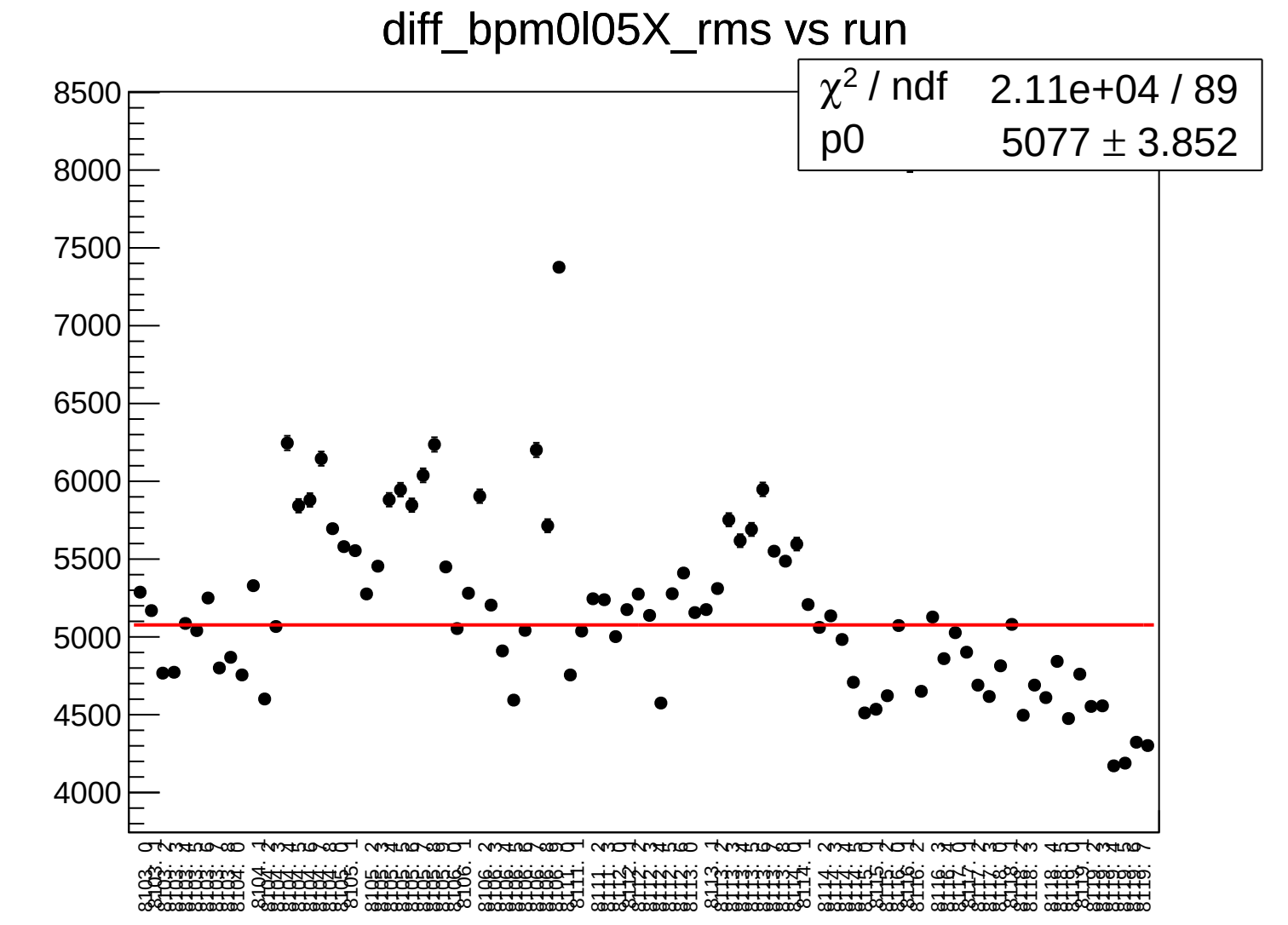

diff_bpm0l04Y_mean vs run
χ² / ndf 90.16 / 89
p0 −19.14 ± 1.121
pull
Entries 90
Mean 424.3
Std Dev 0

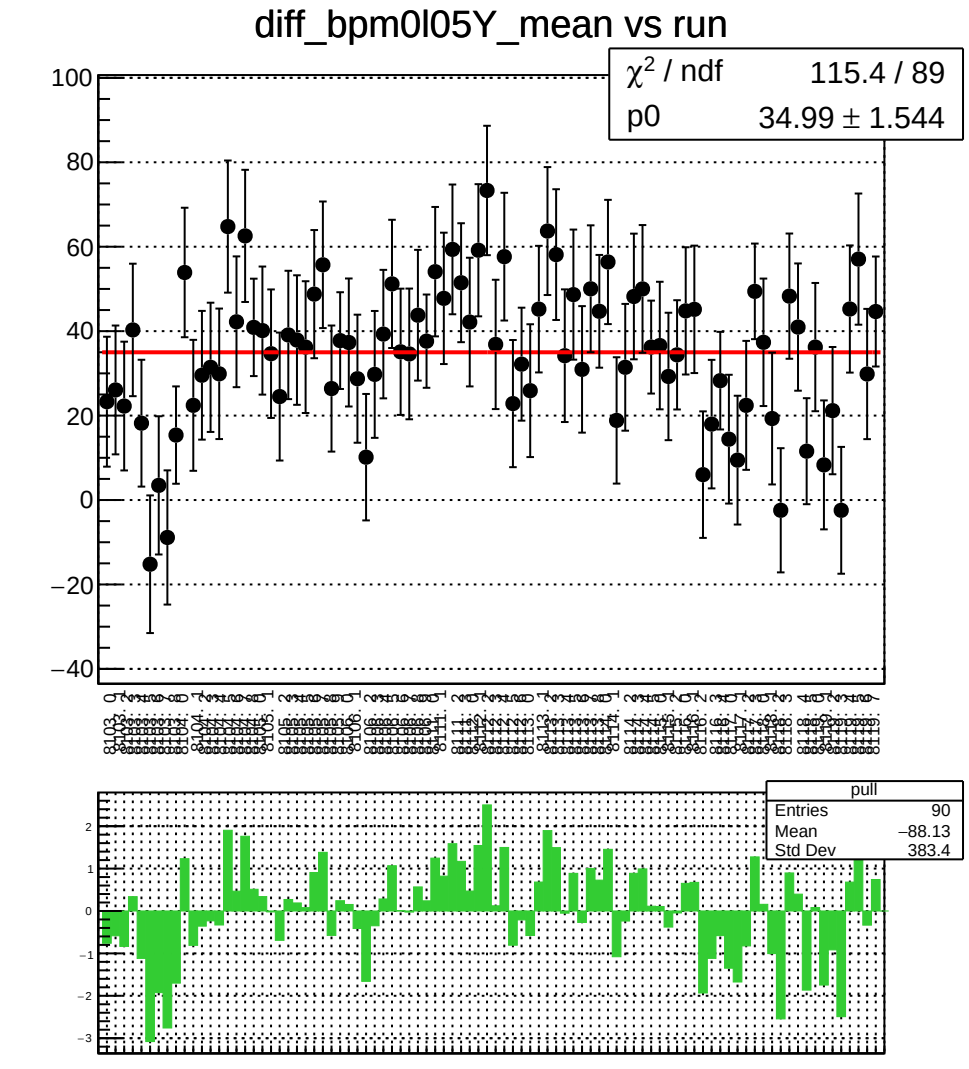

pull1D
Entries 90
Mean 0.01198
Std Dev 1.001

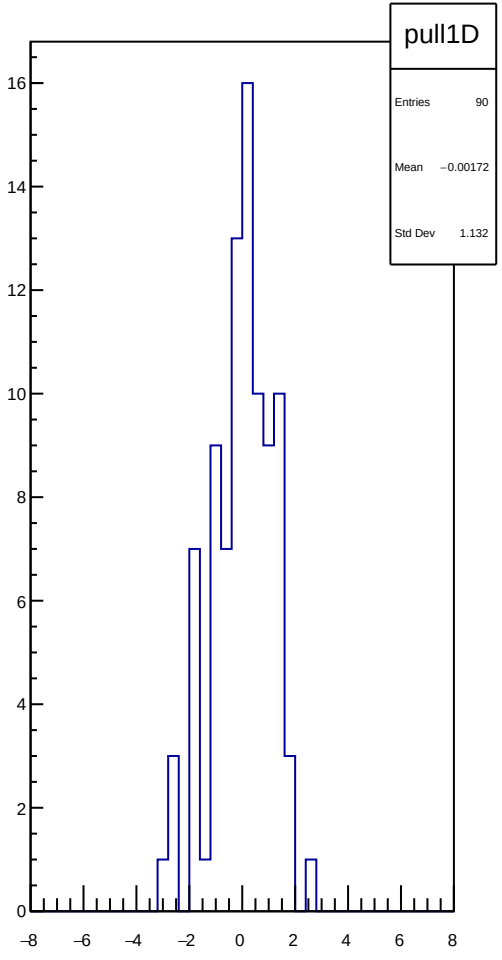

diff_bpm0l04Y_rms vs run
χ² / ndf 916 / 89
p0 1051 ± 0.7929
1160
1140
1120
1100
1080
1060
1040
1020
1000

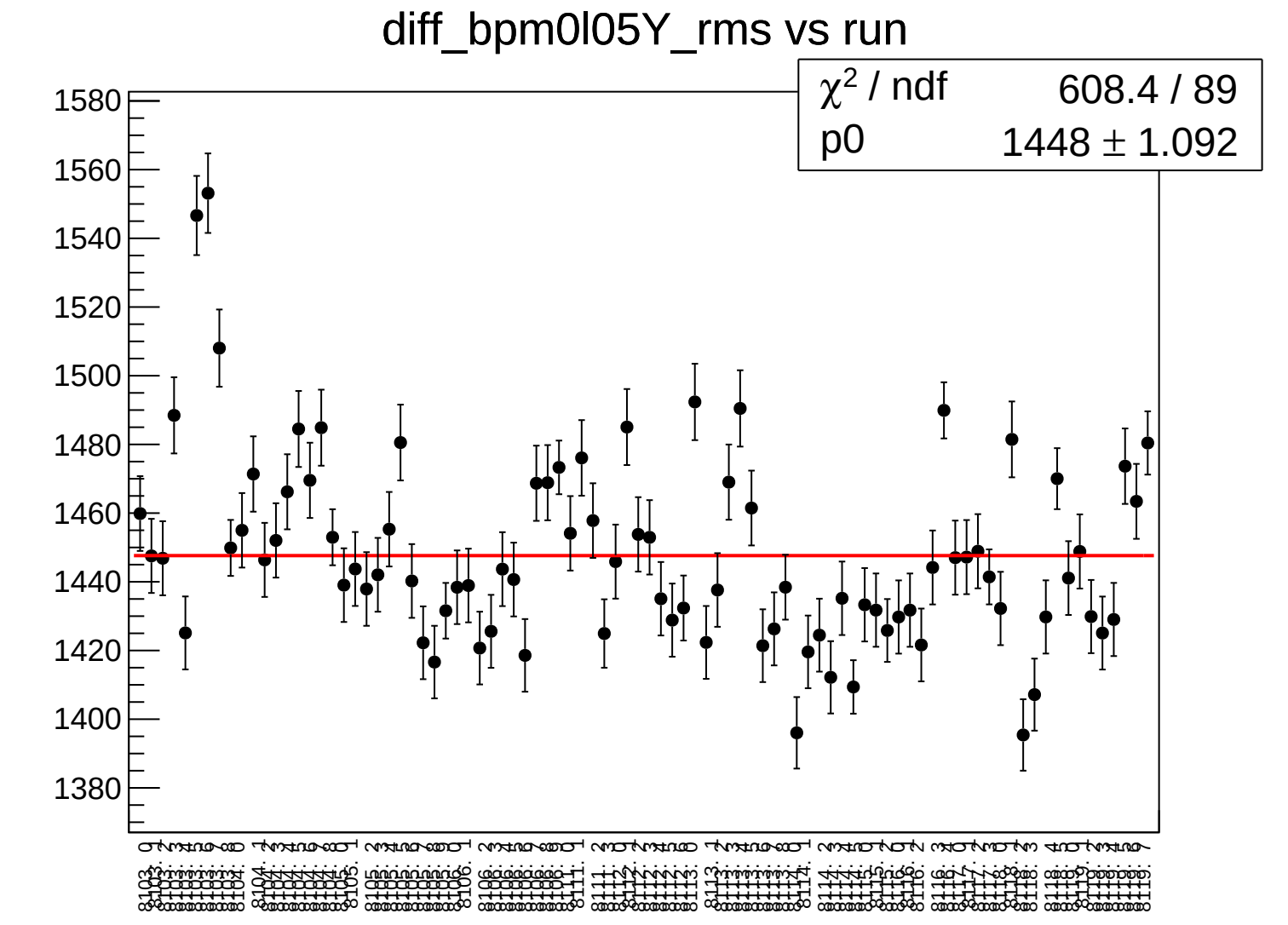

diff_bpm0l05X_mean vs run
χ^2 / ndf 97.43 / 89
p0 6.467 ± 5.447
pull
Entries 90
Mean −954.6
Std Dev 0

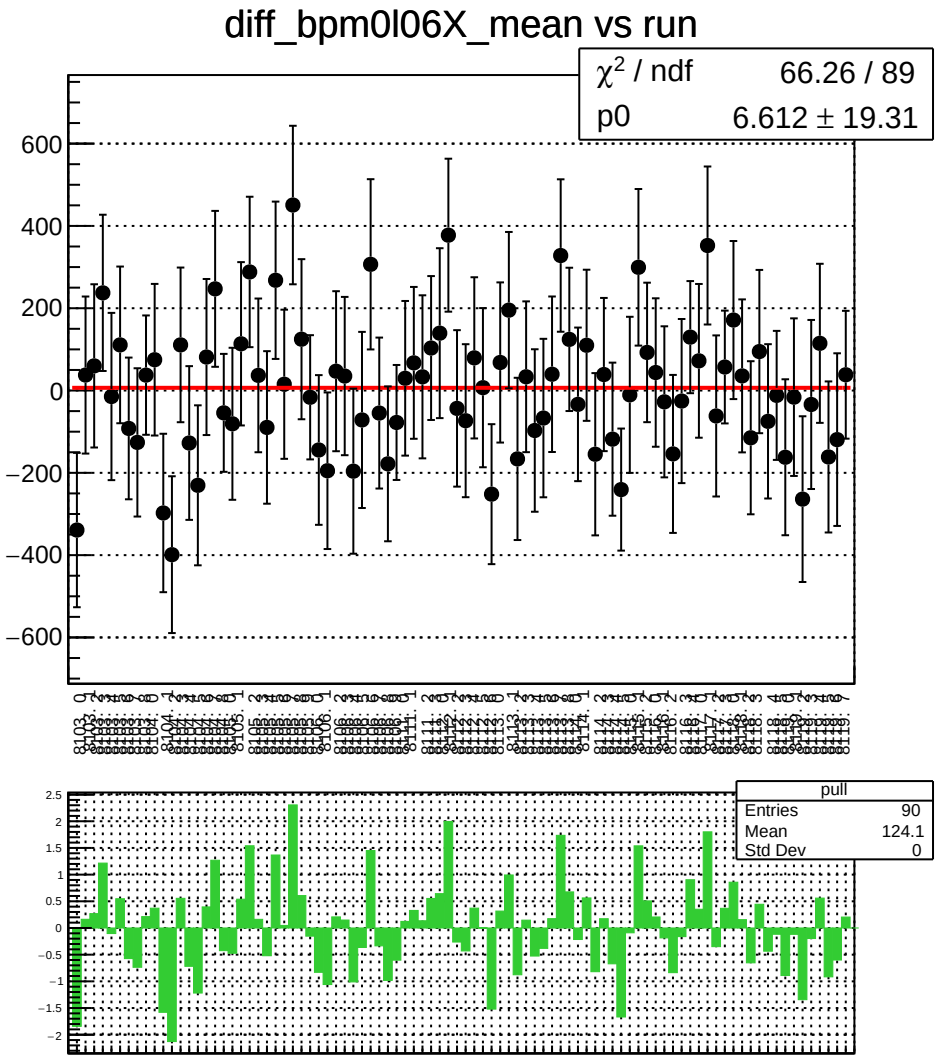

pull1D
Entries 90
Mean 0.004837
Std Dev 1.04

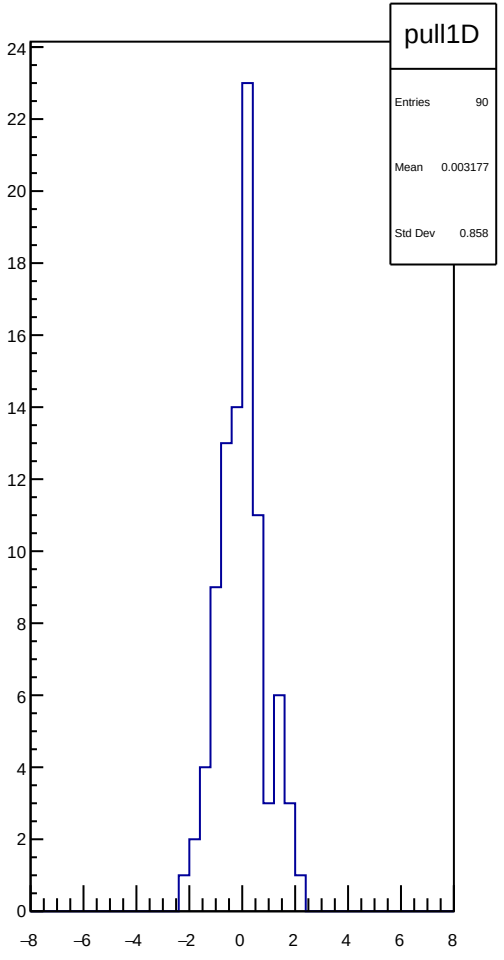

diff_bpm0l05X_rms vs run
χ² / ndf 2.11e+04 / 89
p0 5077 ± 3.852
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

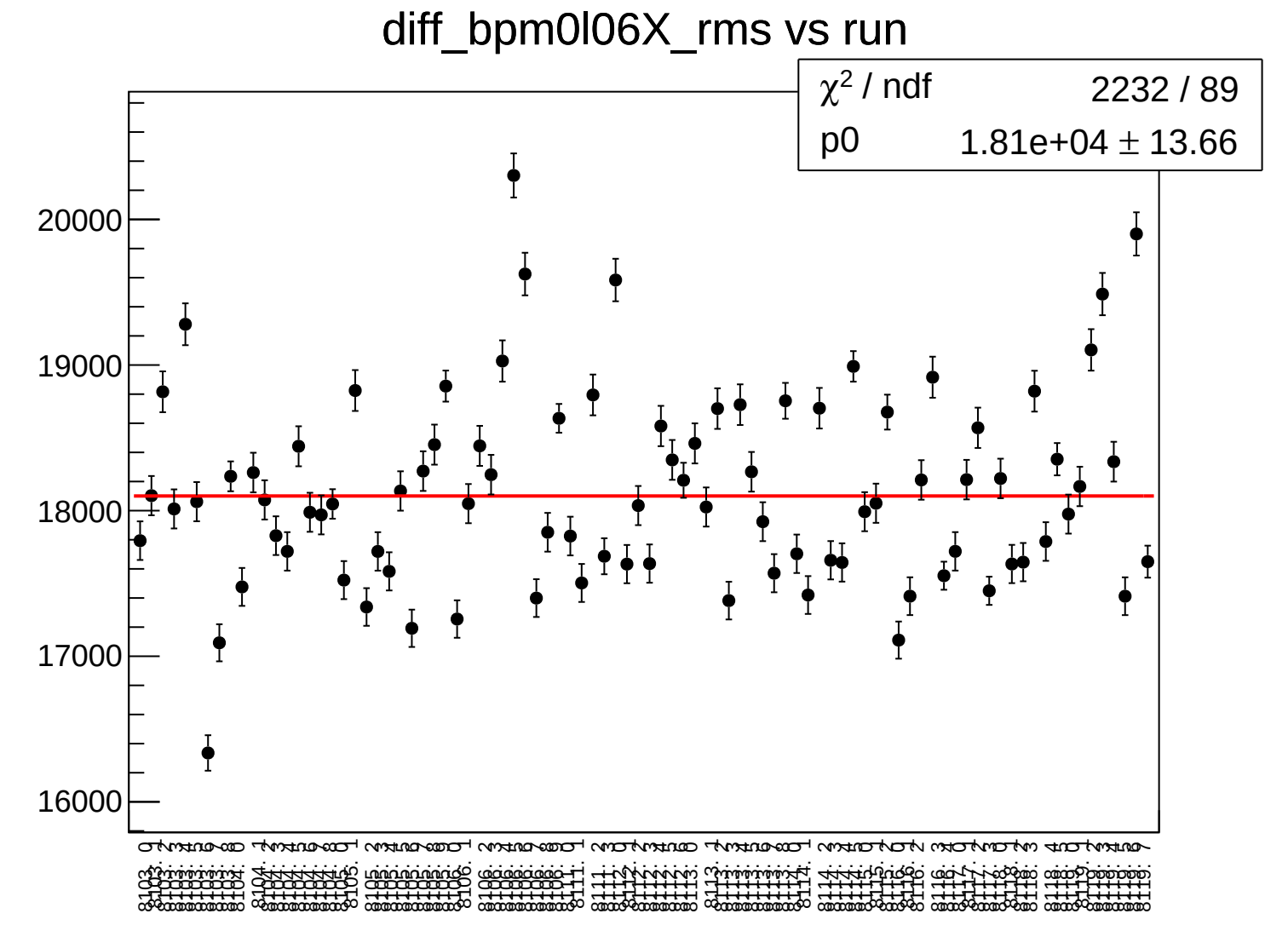

diff_bpm0l05Y_mean vs run
χ^2 / ndf 115.4 / 89
p0 34.99 ± 1.544
pull
Entries 90
Mean −88.13
Std Dev 383.4

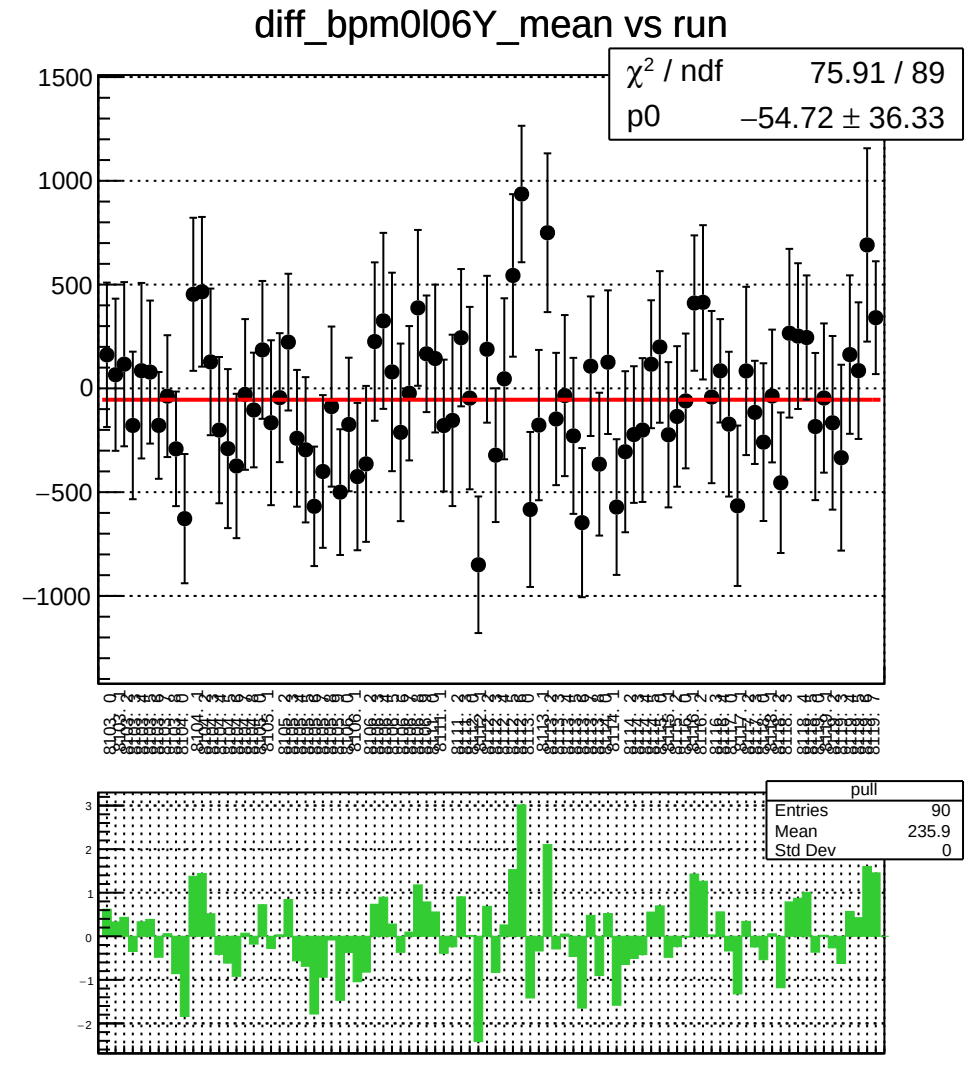

pull1D
Entries 90
Mean −0.00172
Std Dev 1.132

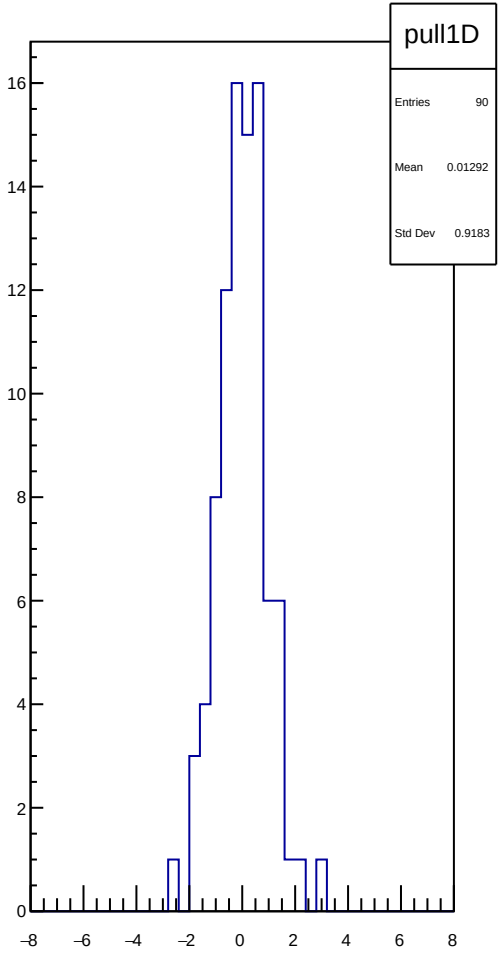

diff_bpm0l05Y_rms vs run
χ² / ndf 608.4 / 89
p0 1448 ± 1.092
1580
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380

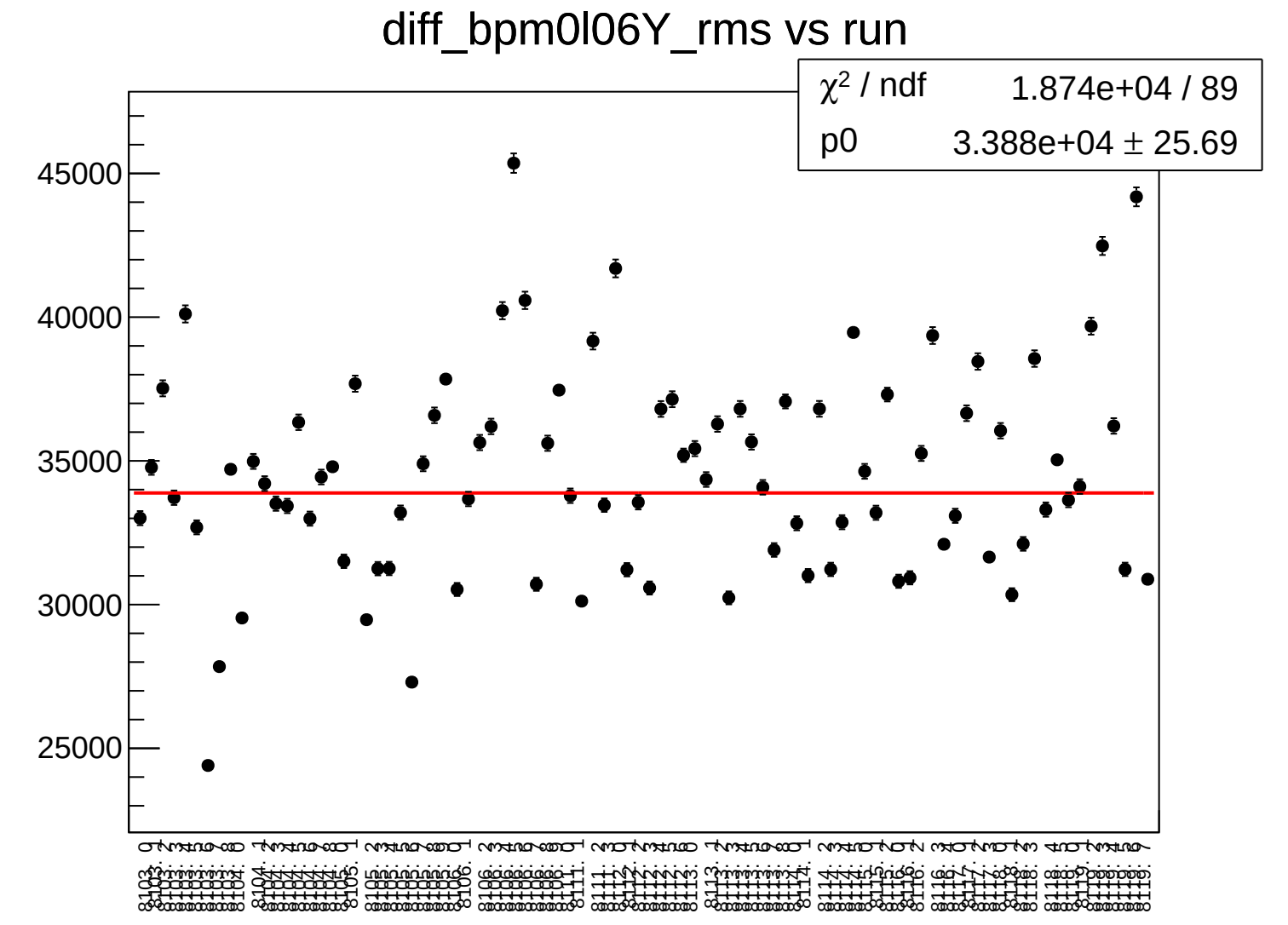

diff_bpm0l06X_mean vs run
χ^2 / ndf 66.26 / 89
p0 6.612 ± 19.31
pull
Entries 90
Mean 124.1
Std Dev 0

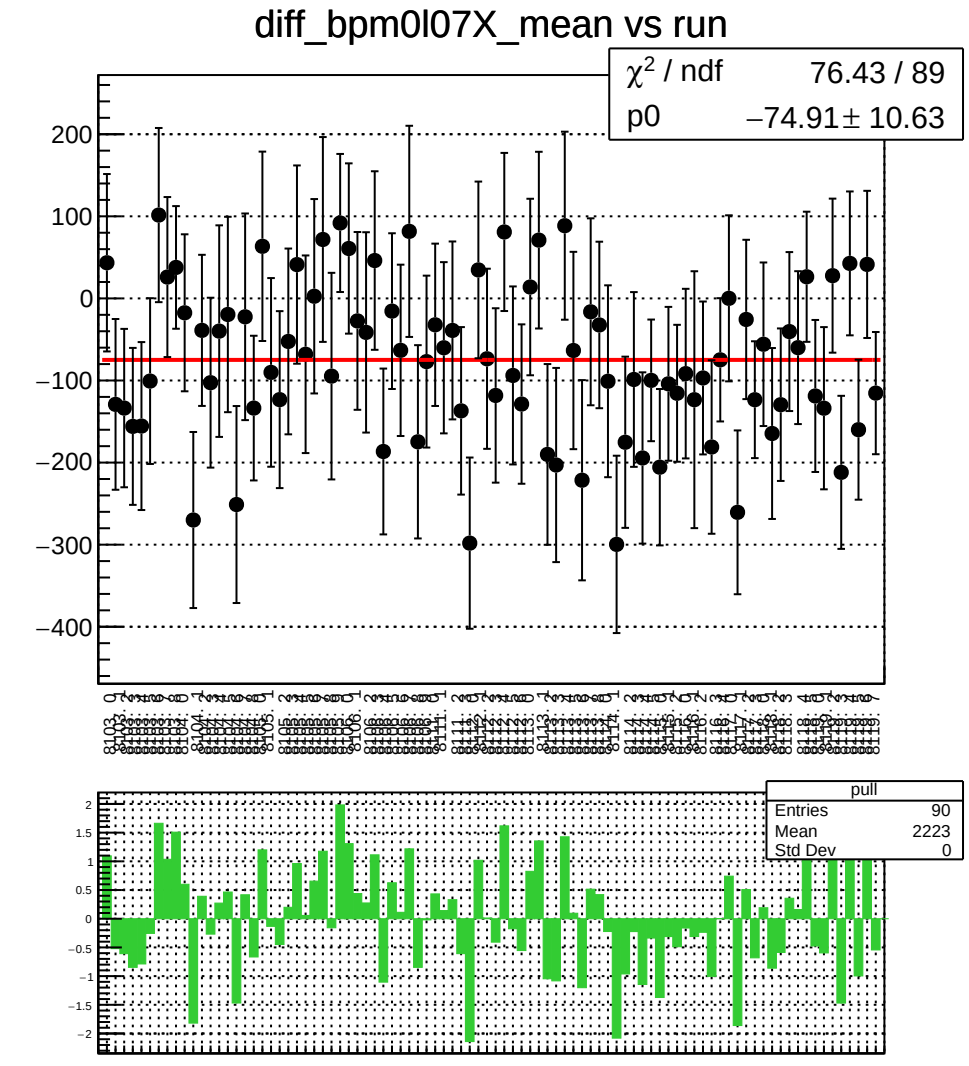

pull1D
Entries 90
Mean 0.003177
Std Dev 0.858

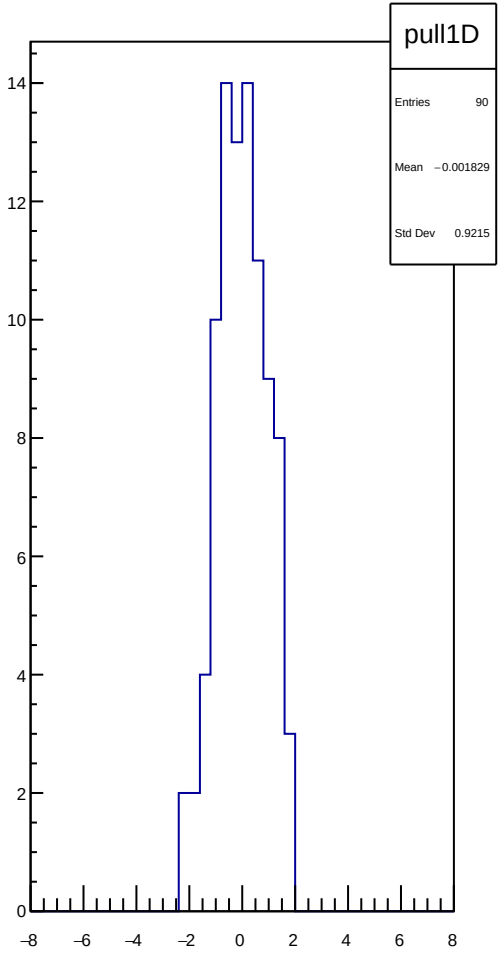

diff_bpm0l06X_rms vs run
χ² / ndf 2232 / 89
p0 1.81e+04 ± 13.66
20000
19000
18000
17000
16000

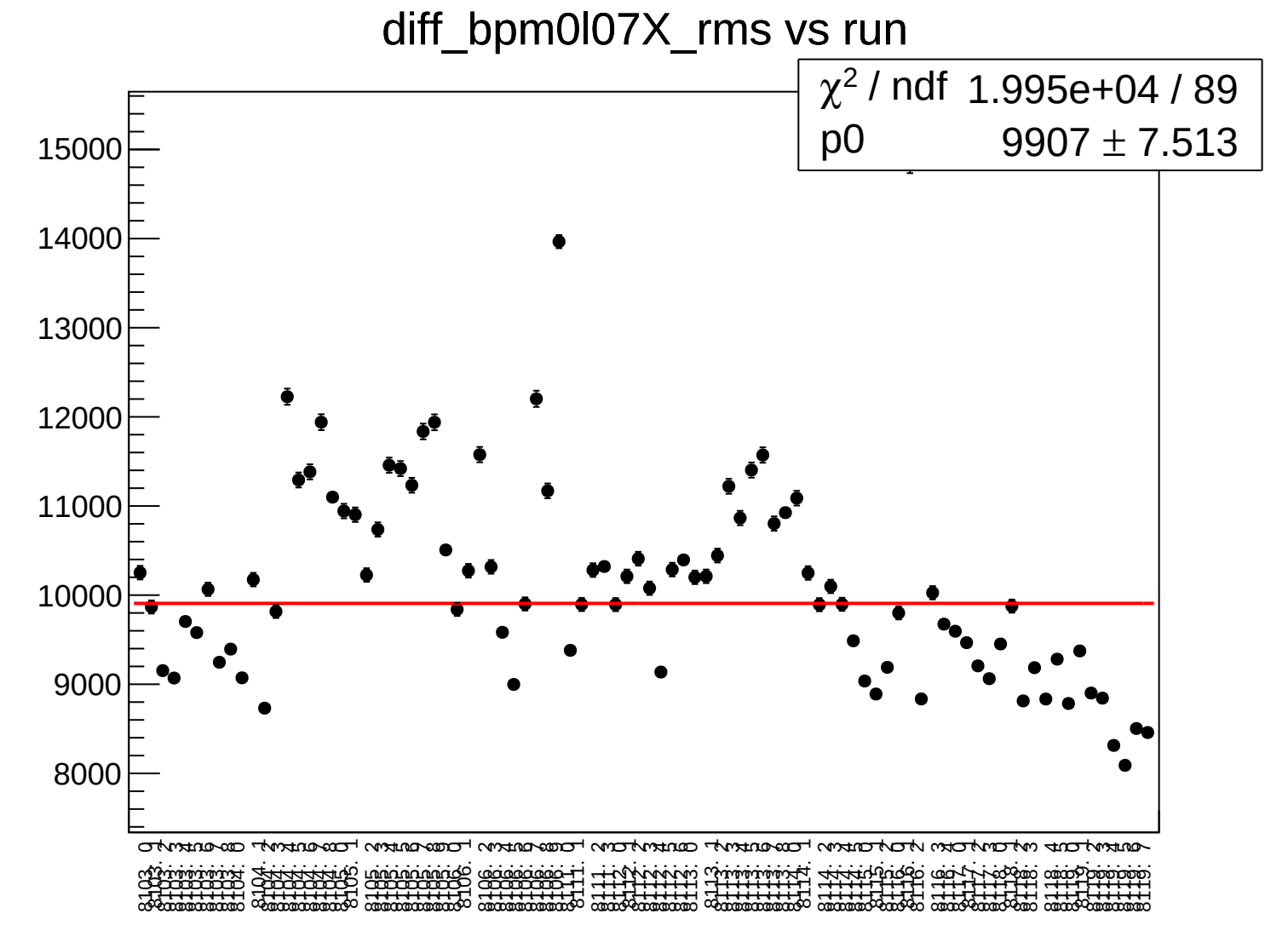

diff_bpm0l06Y_mean vs run
χ² / ndf 75.91 / 89
p0 −54.72 ± 36.33
pull
Entries 90
Mean 235.9
Std Dev 0

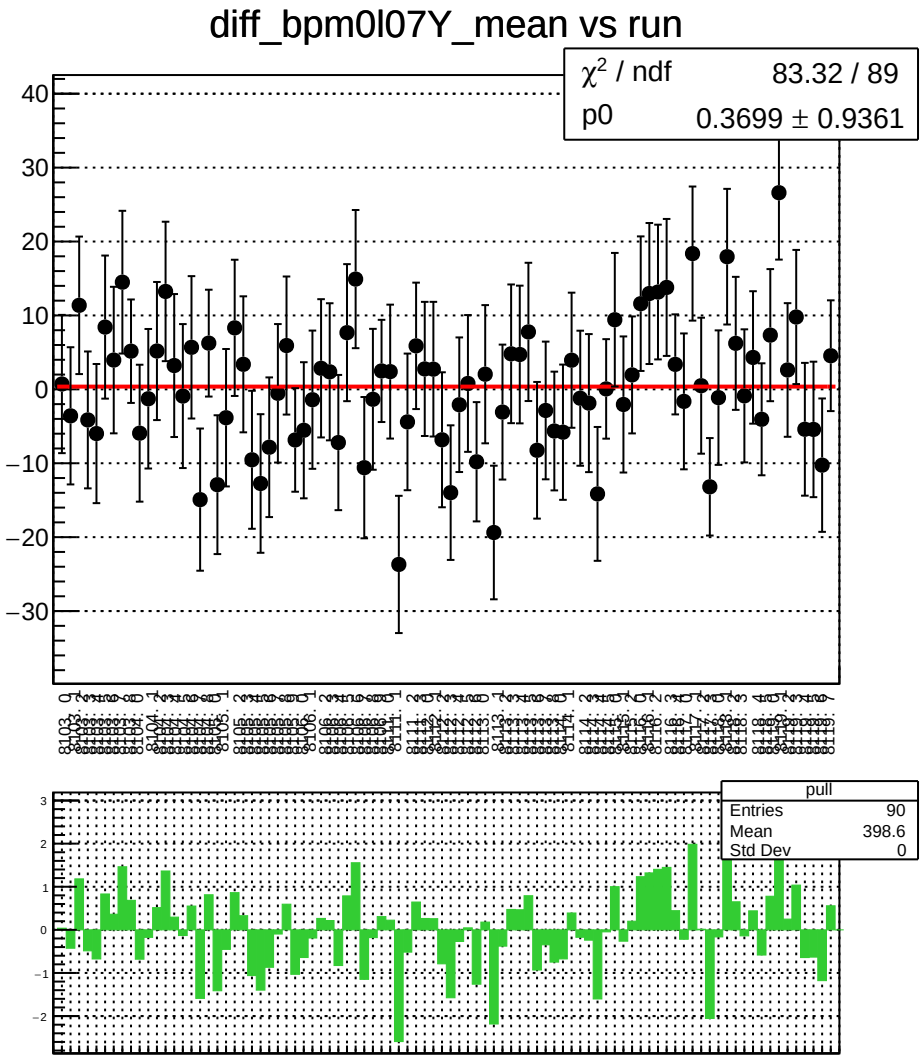

pull1D
Entries 90
Mean 0.01292
Std Dev 0.9183

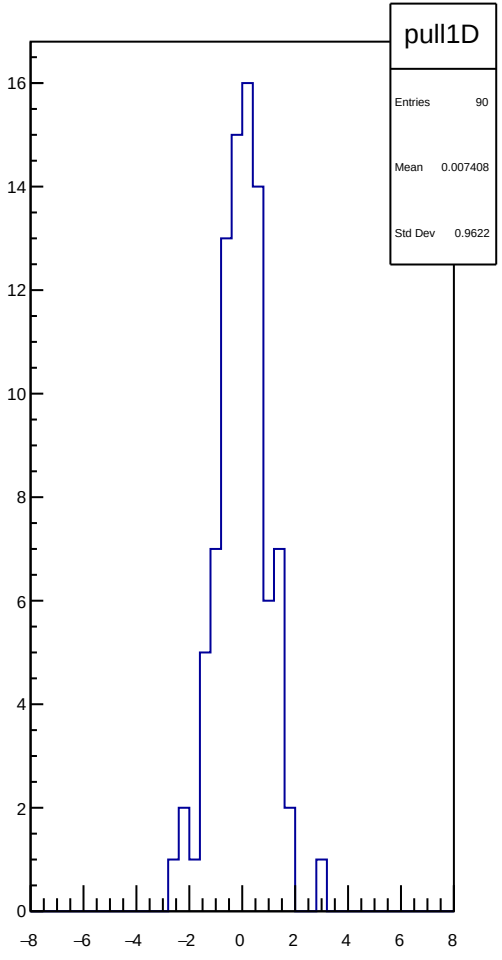

diff_bpm0l06Y_rms vs run
χ² / ndf 1.874e+04 / 89
p0 3.388e+04 ± 25.69
45000
40000
35000
30000
25000

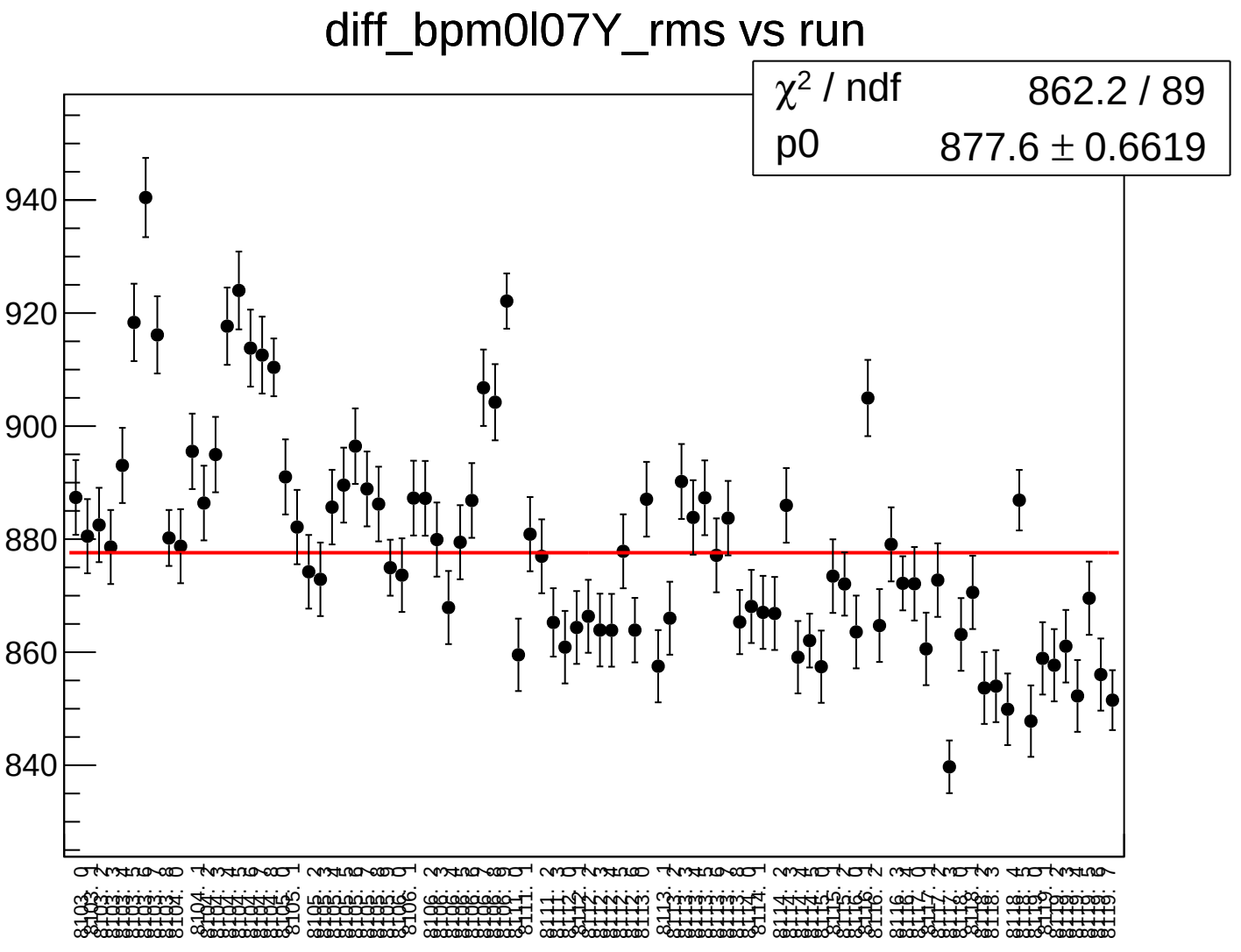

diff_bpm0l07X_mean vs run
χ² / ndf 76.43 / 89
p0 −74.91 ± 10.63
pull
Entries 90
Mean 2223
Std Dev 0

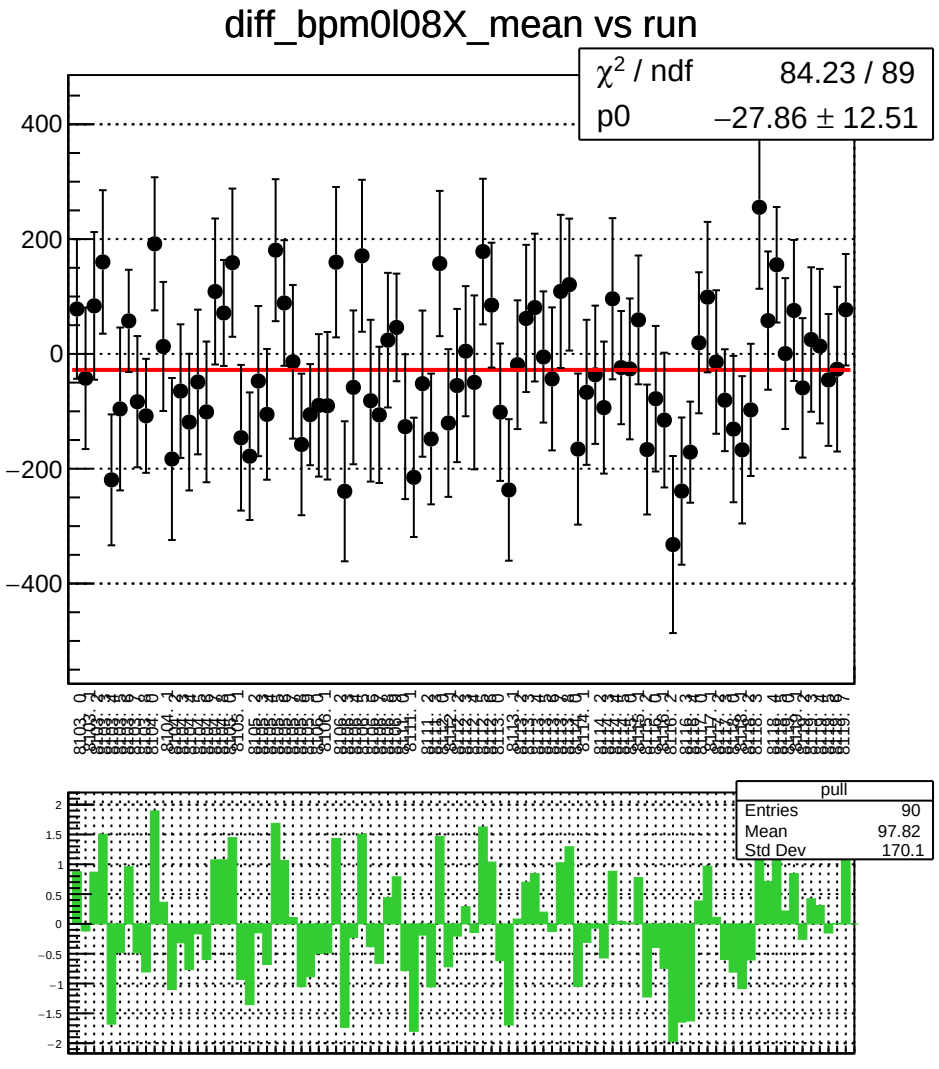

pull1D
Entries 90
Mean −0.001829
Std Dev 0.9215

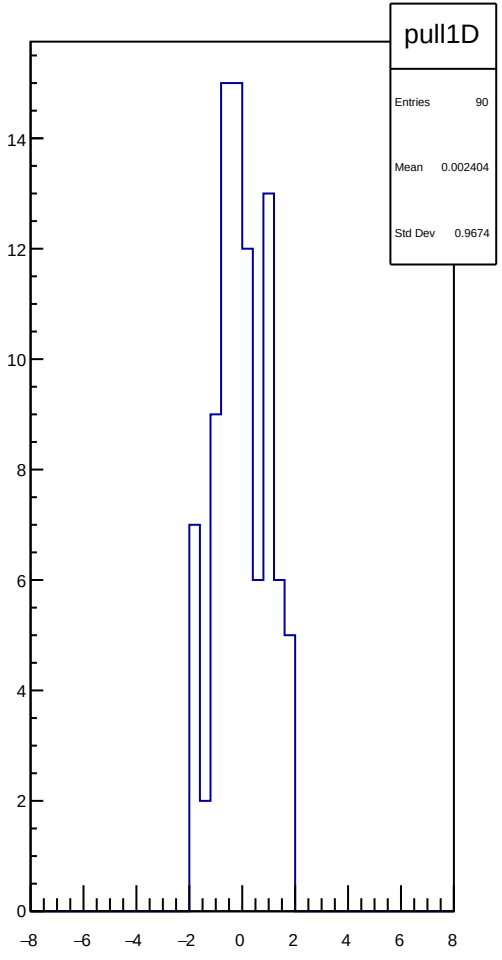

diff_bpm0l07X_rms vs run
χ² / ndf 1.995e+04 / 89
p0 9907 ± 7.513
15000
14000
13000
12000
11000
10000
9000
8000

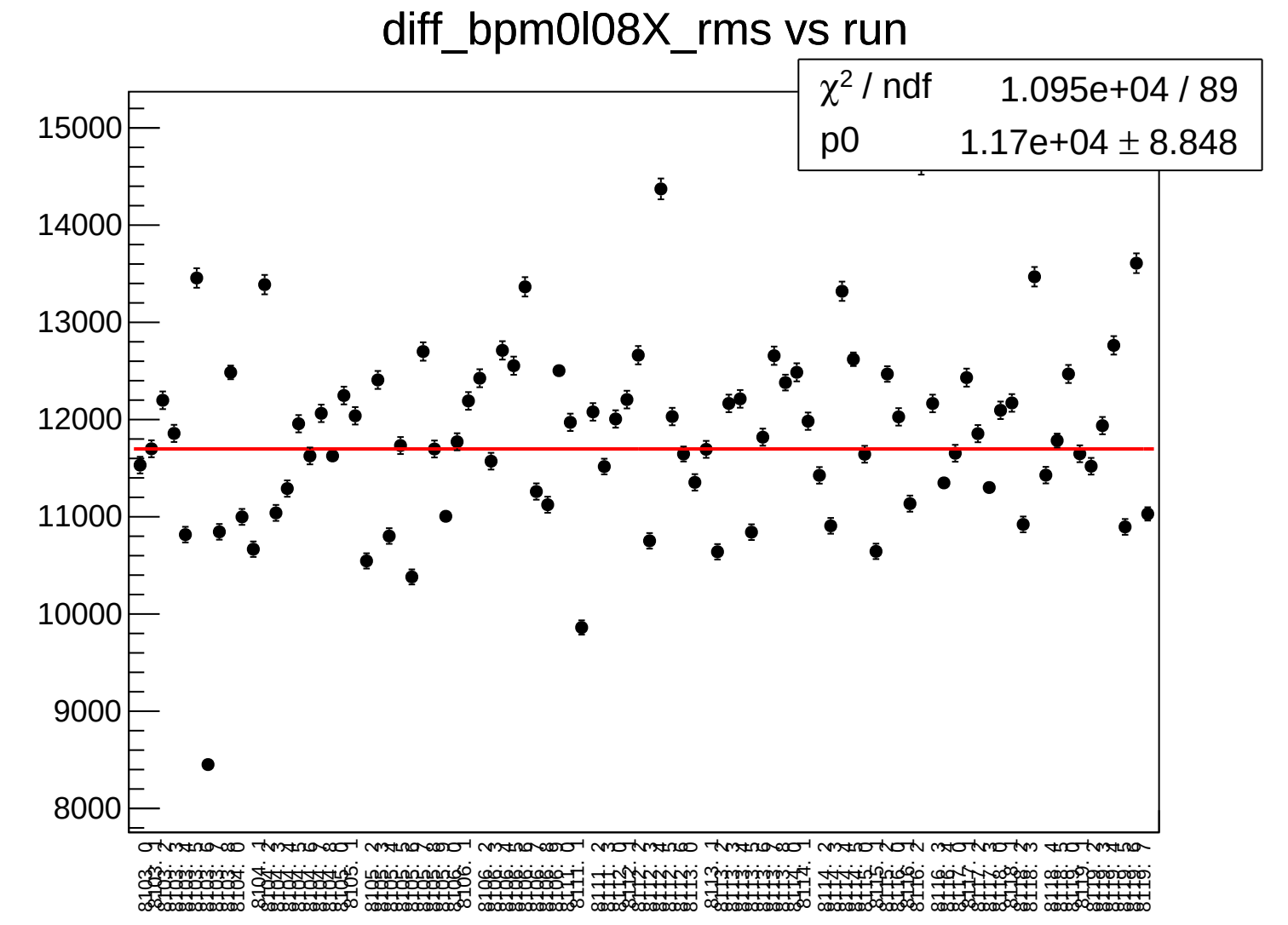

diff_bpm0l07Y_mean vs run
χ² / ndf 83.32 / 89
p0 0.3699 ± 0.9361
pull
Entries 90
Mean 398.6
Std Dev 0

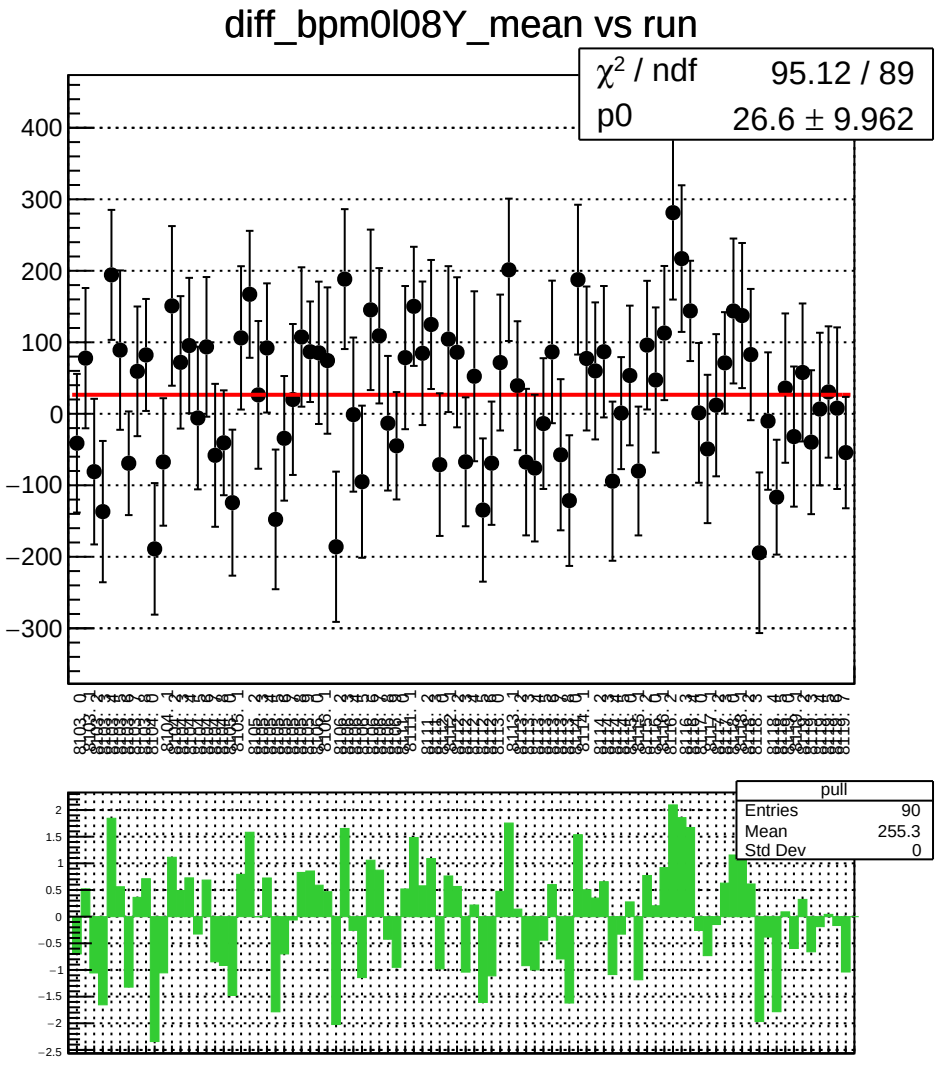

pull1D
Entries 90
Mean 0.007408
Std Dev 0.9622

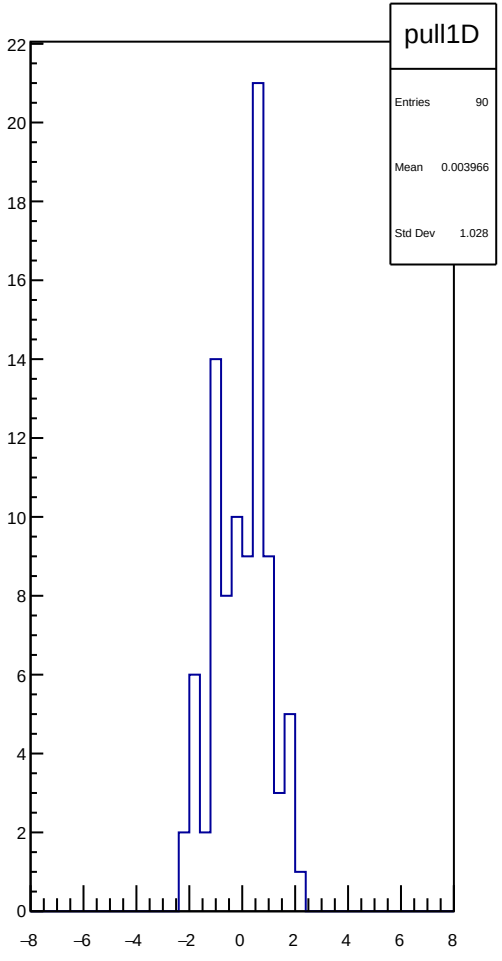

diff_bpm0l07Y_rms vs run
χ² / ndf 862.2 / 89
p0 877.6 ± 0.6619
940
920
900
880
860
840

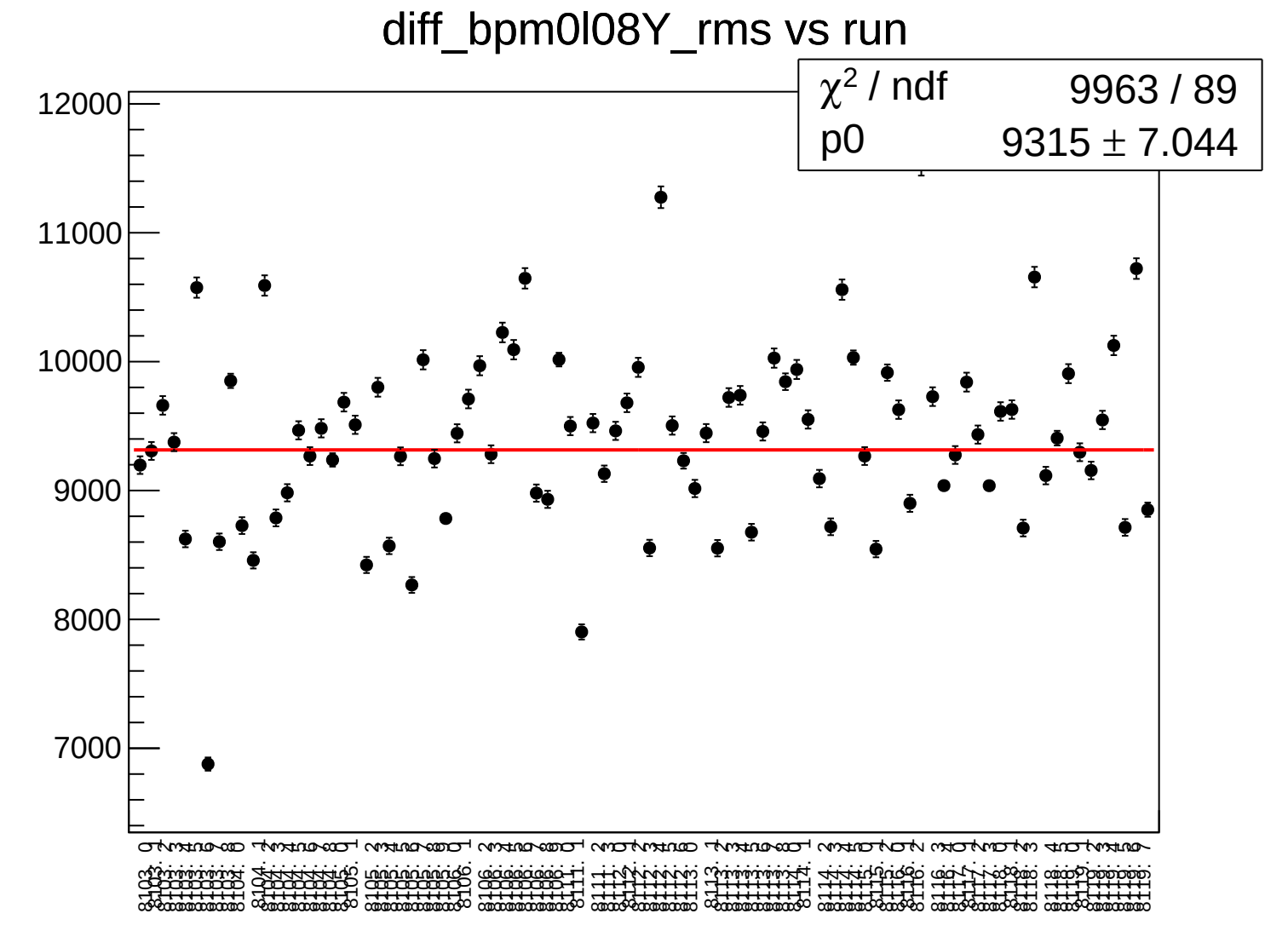

diff_bpm0l08X_mean vs run
χ² / ndf 84.23 / 89
p0 −27.86 ± 12.51
pull
Entries 90
Mean 97.82
Std Dev 170.1

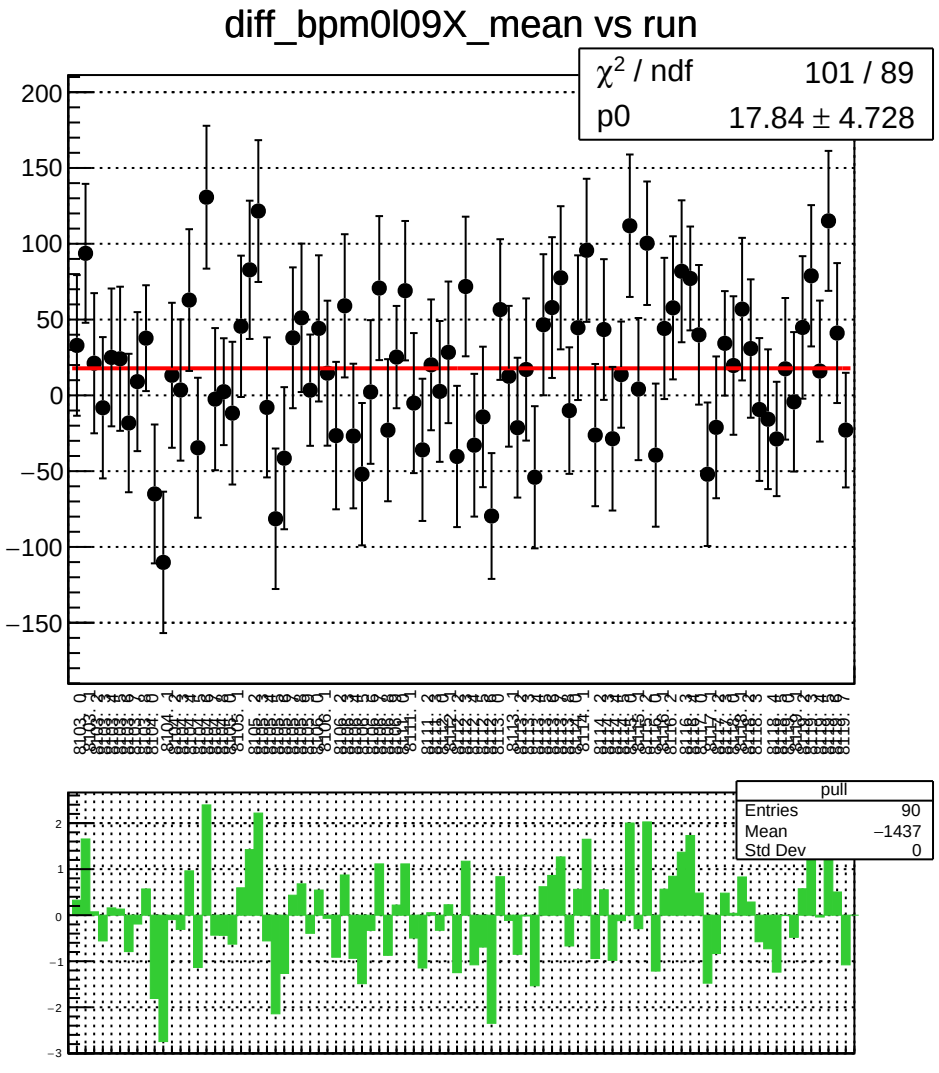

pull1D
Entries 90
Mean 0.002404
Std Dev 0.9674

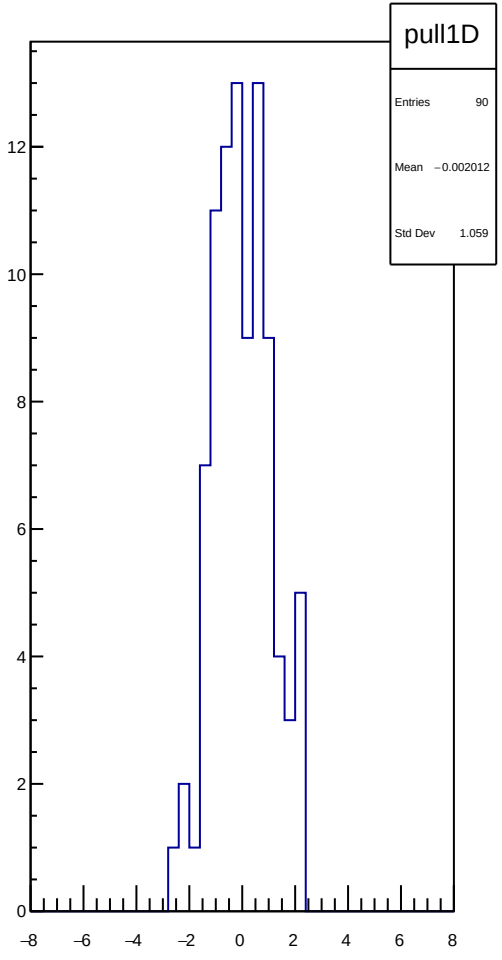

diff_bpm0l08X_rms vs run
χ² / ndf 1.095e+04 / 89
p0 1.17e+04 ± 8.848
15000
14000
13000
12000
11000
10000
9000
8000

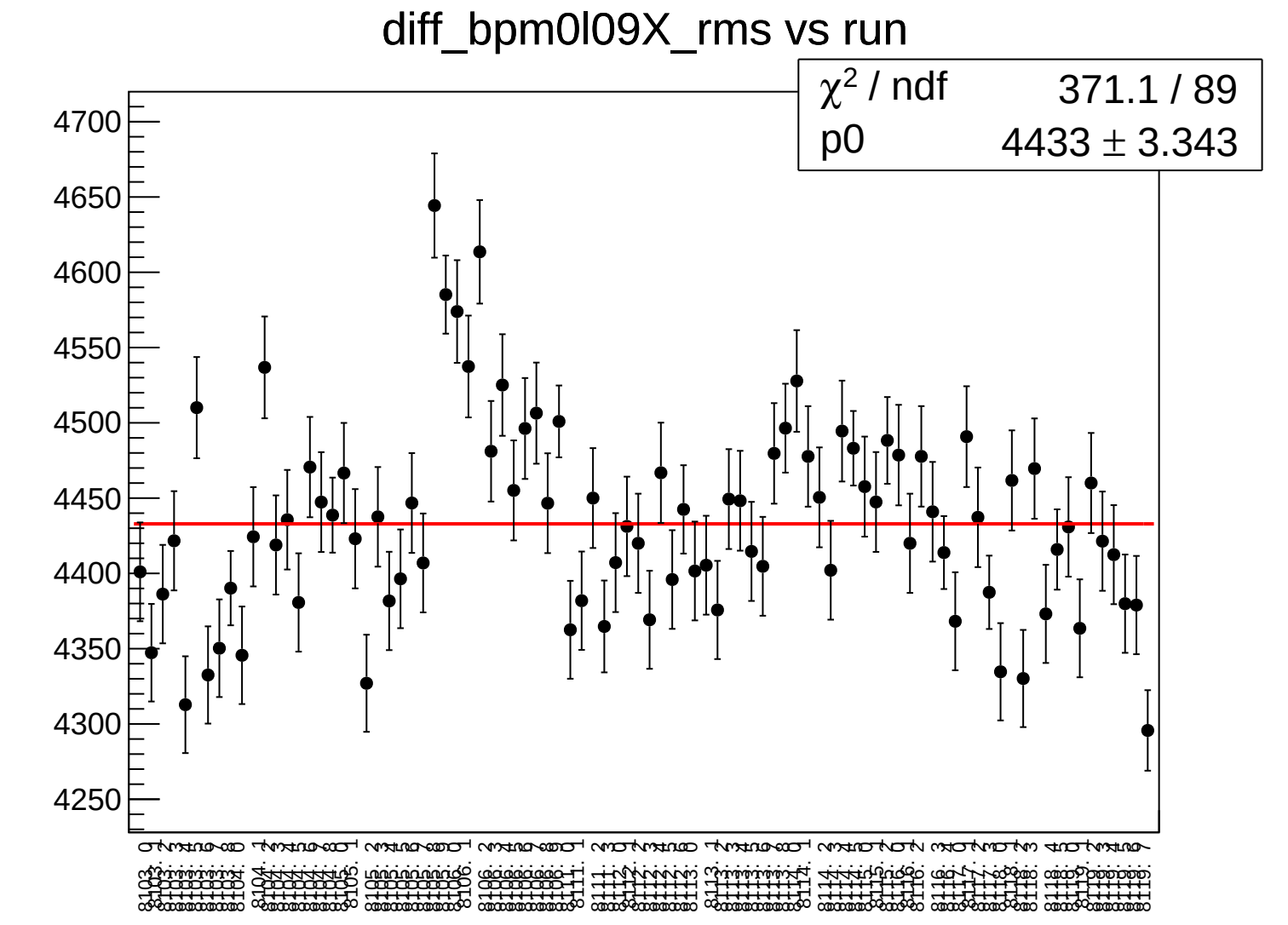

diff_bpm0l08Y_mean vs run
χ² / ndf 95.12 / 89
p0 26.6 ± 9.962
pull
Entries 90
Mean 255.3
Std Dev 0

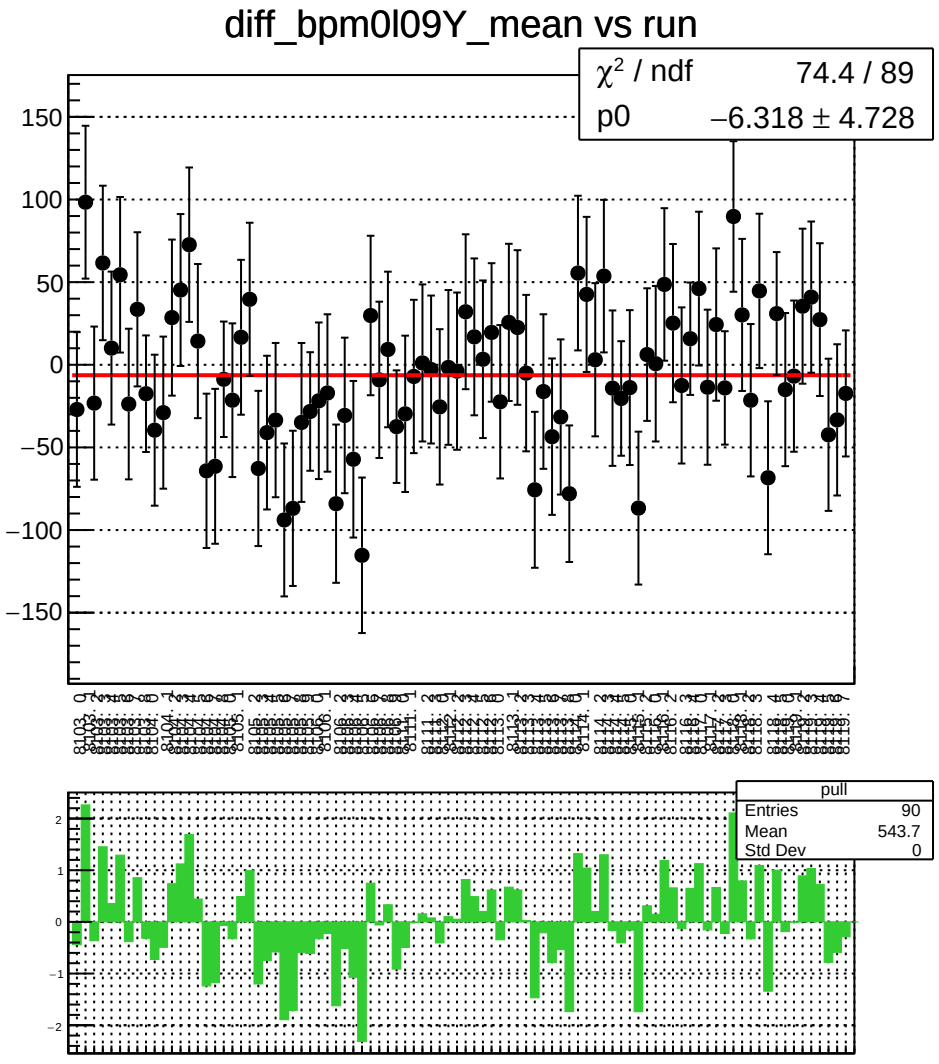

pull1D
Entries 90
Mean 0.003966
Std Dev 1.028

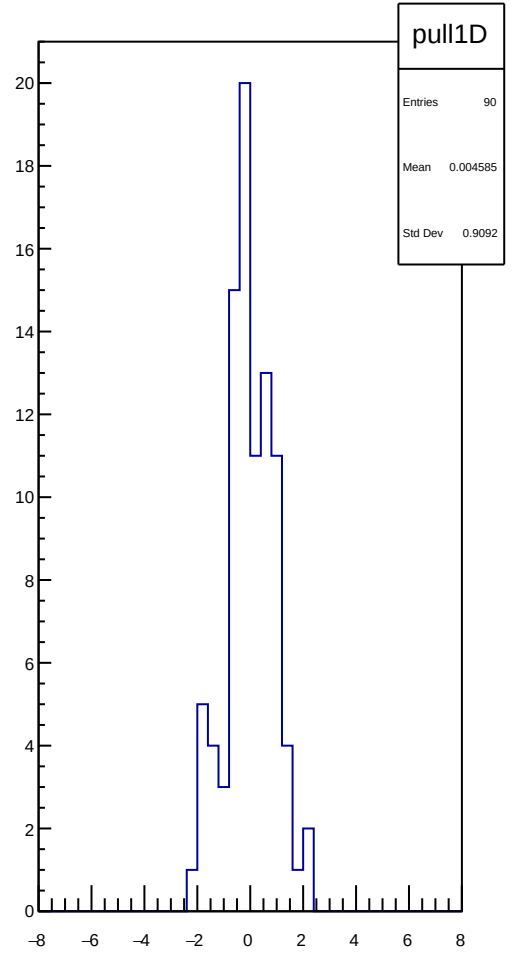

diff_bpm0l08Y_rms vs run
χ² / ndf 9963 / 89
p0 9315 ± 7.044
12000
11000
10000
9000
8000
7000

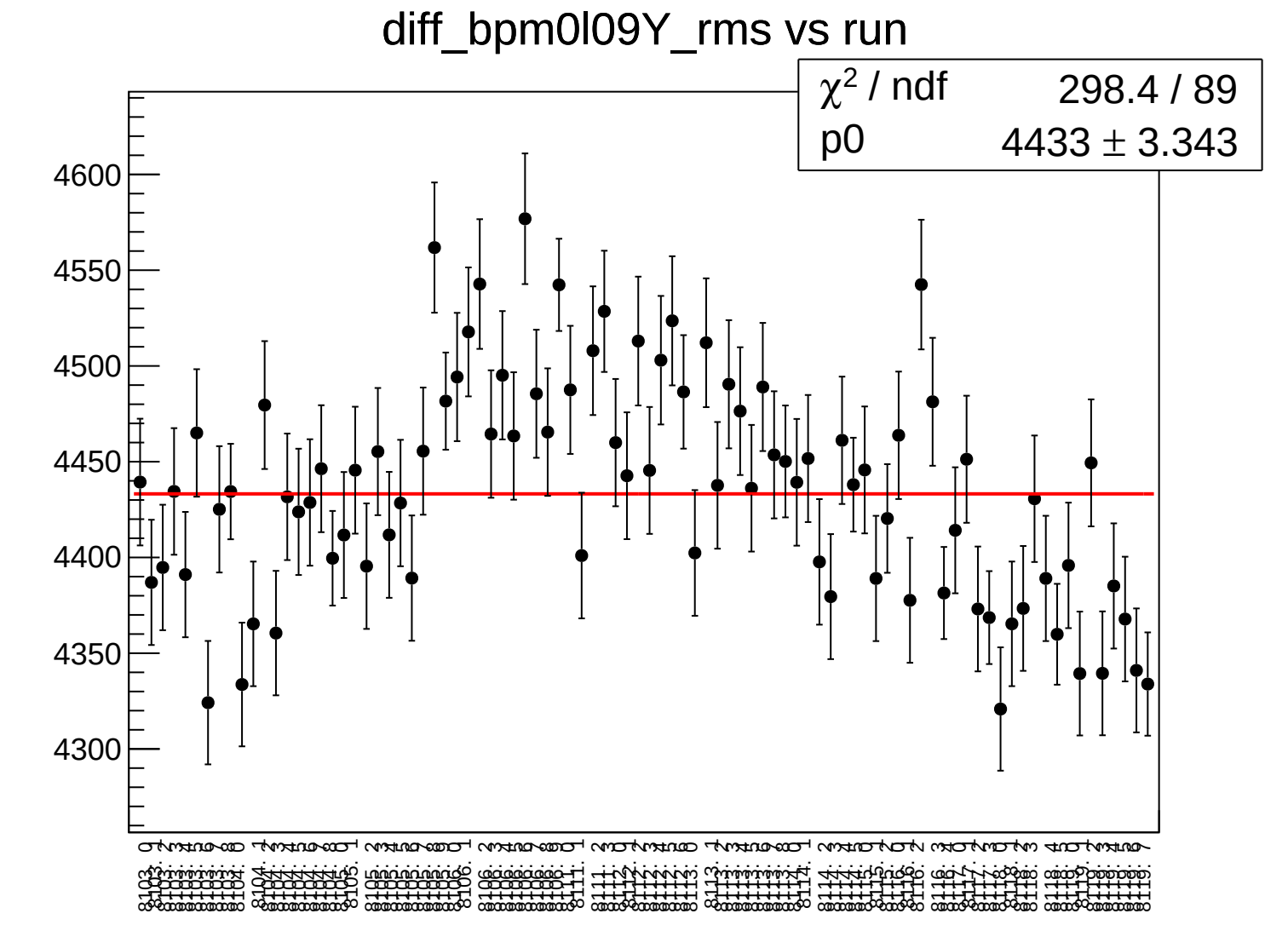

diff_bpm0l09X_mean vs run
χ² / ndf 101 / 89
p0 17.84 ± 4.728
pull
Entries 90
Mean −1437
Std Dev 0

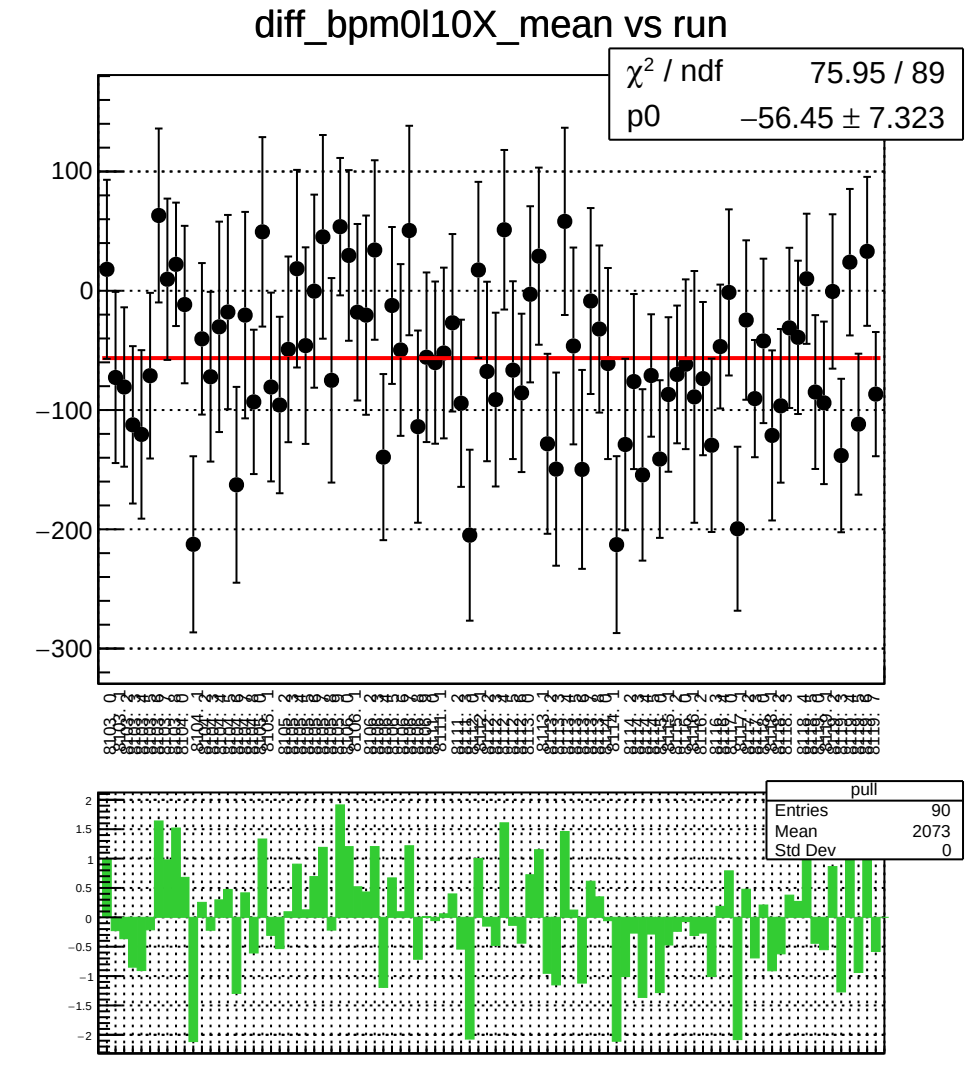

pull1D
Entries 90
Mean −0.002012
Std Dev 1.059

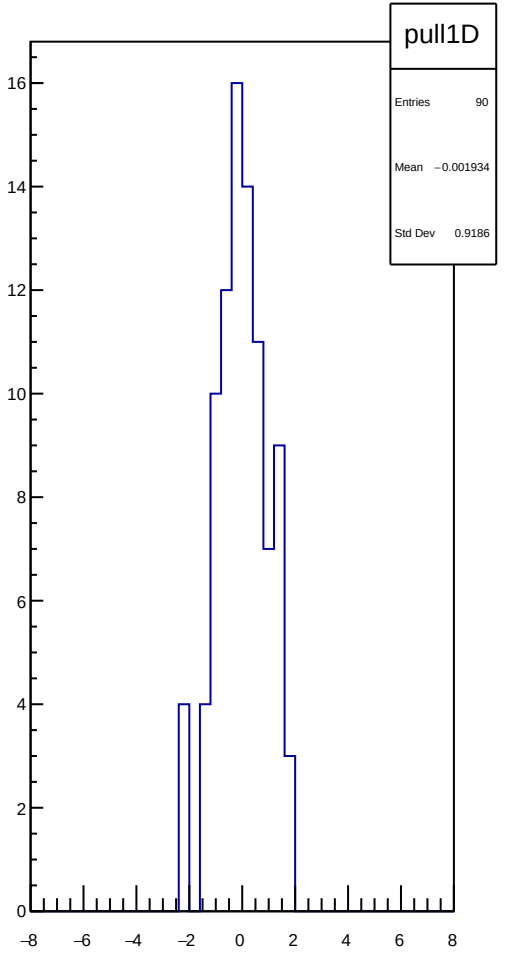

diff_bpm0l09X_rms vs run
χ² / ndf 371.1 / 89
p0 4433 ± 3.343
4700
4650
4600
4550
4500
4450
4400
4350
4300
4250

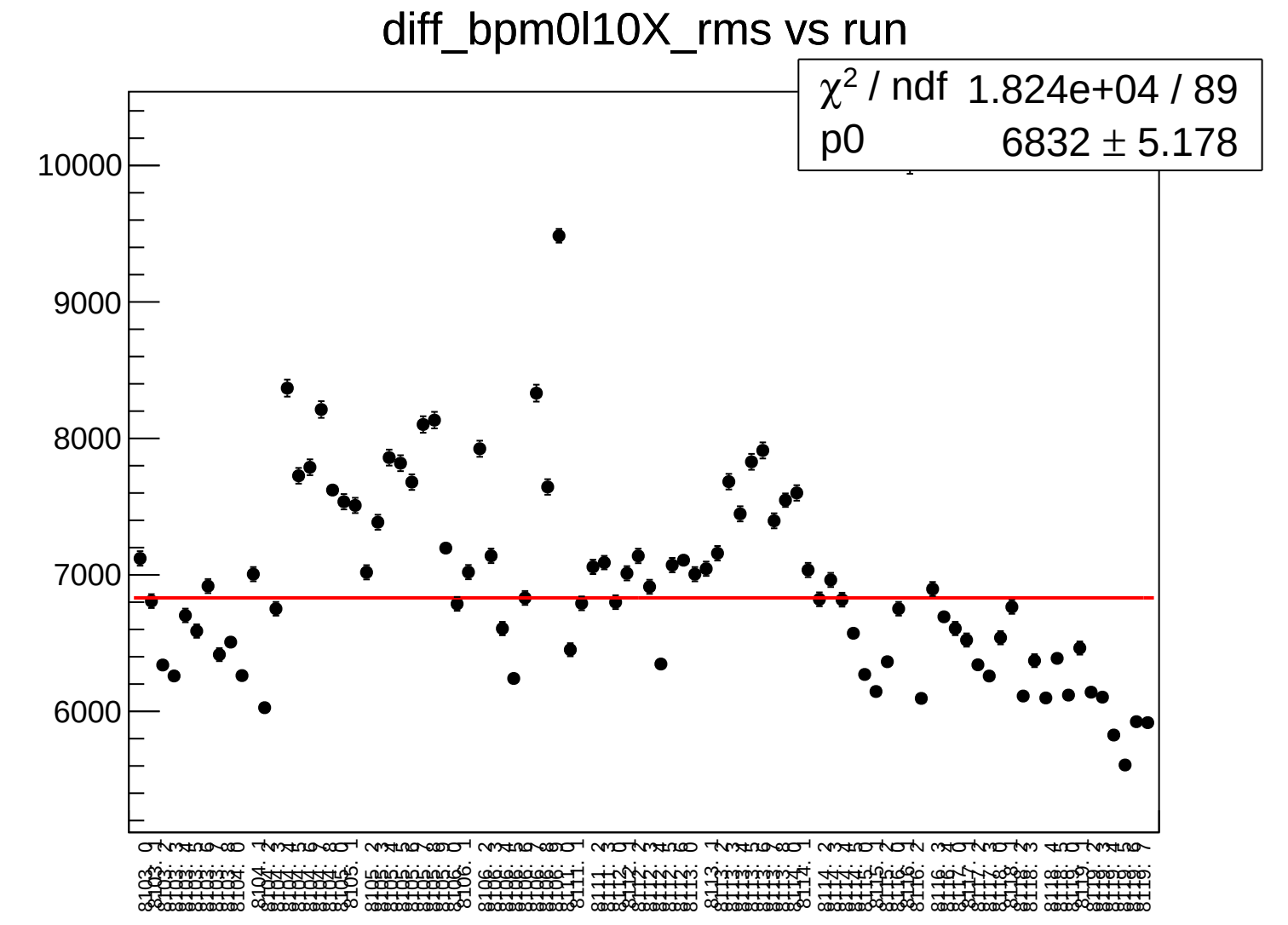

diff_bpm0l09Y_mean vs run
χ² / ndf 74.4 / 89
p0 −6.318 ± 4.728
pull
Entries 90
Mean 543.7
Std Dev 0

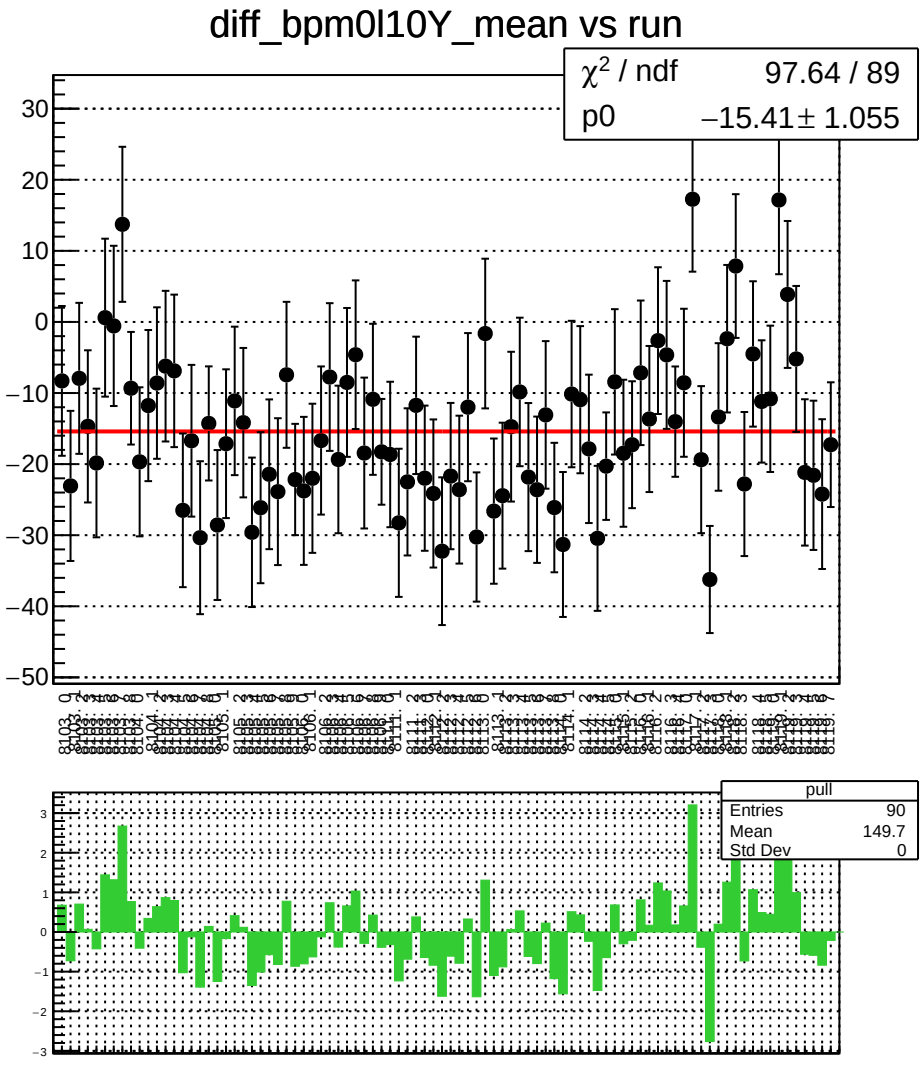

pull1D
Entries 90
Mean 0.004585
Std Dev 0.9092

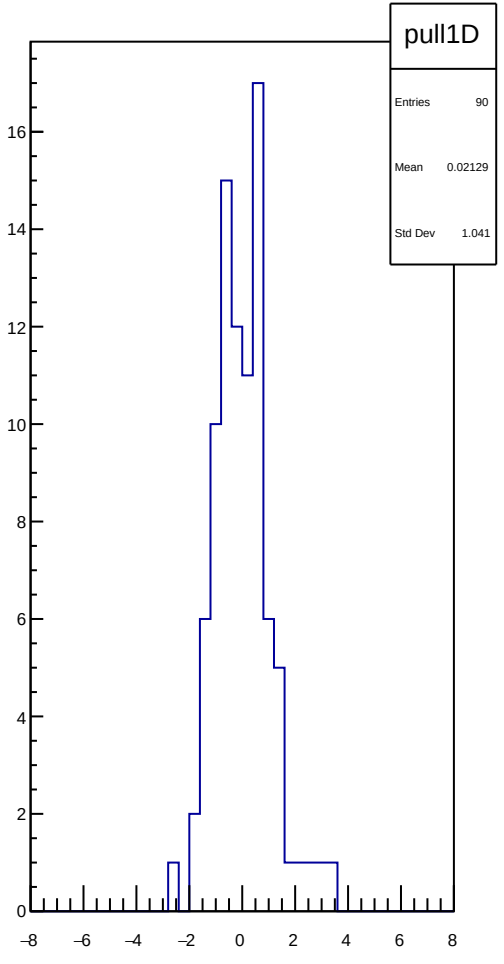

diff_bpm0l09Y_rms vs run
χ² / ndf 298.4 / 89
p0 4433 ± 3.343
4600
4550
4500
4450
4400
4350
4300

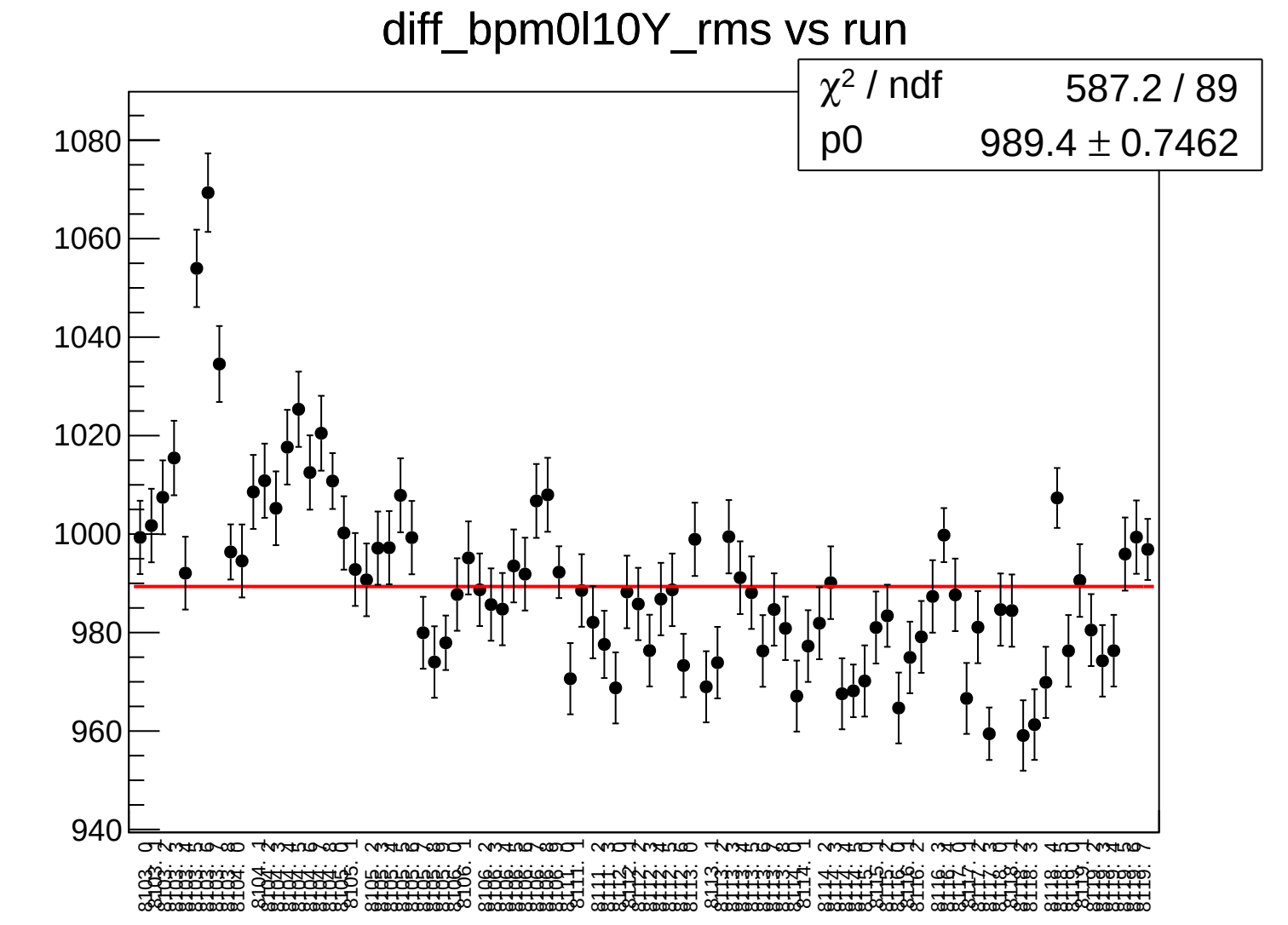

diff_bpm0l10X_mean vs run
χ² / ndf 75.95 / 89
p0 −56.45 ± 7.323
100
0
−100
−200
−300
pull
Entries 90
Mean 2073
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

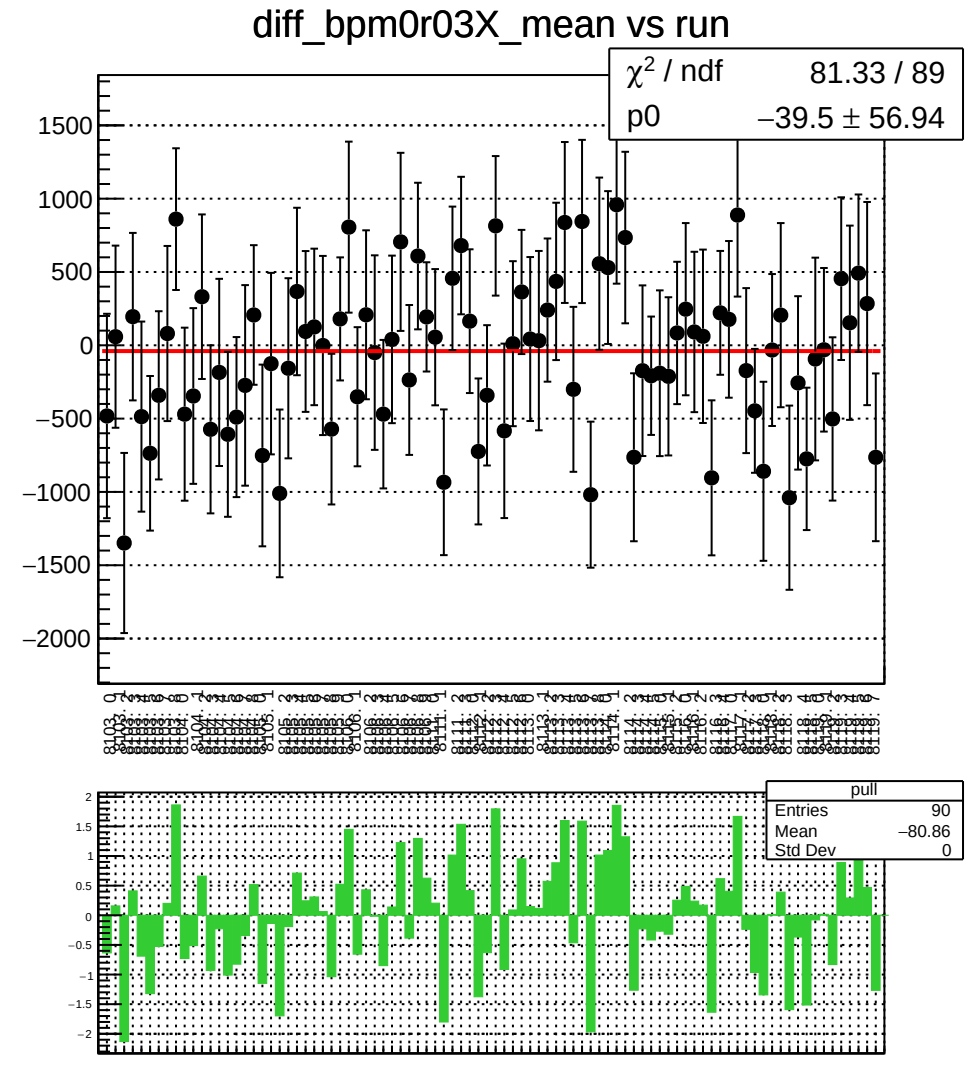

pull1D
Entries 90
Mean −0.001934
Std Dev 0.9186
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

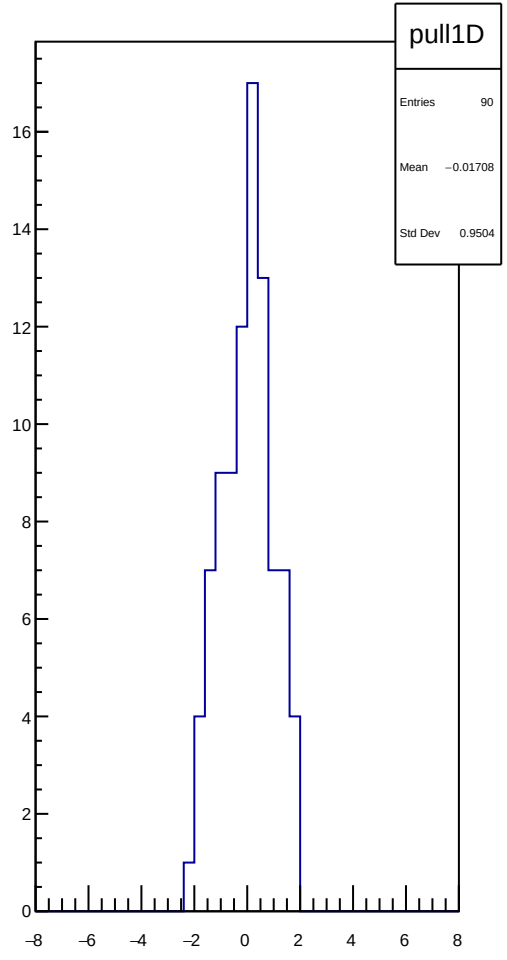

diff_bpm0l10X_rms vs run
χ² / ndf 1.824e+04 / 89
p0 6832 ± 5.178
10000
9000
8000
7000
6000

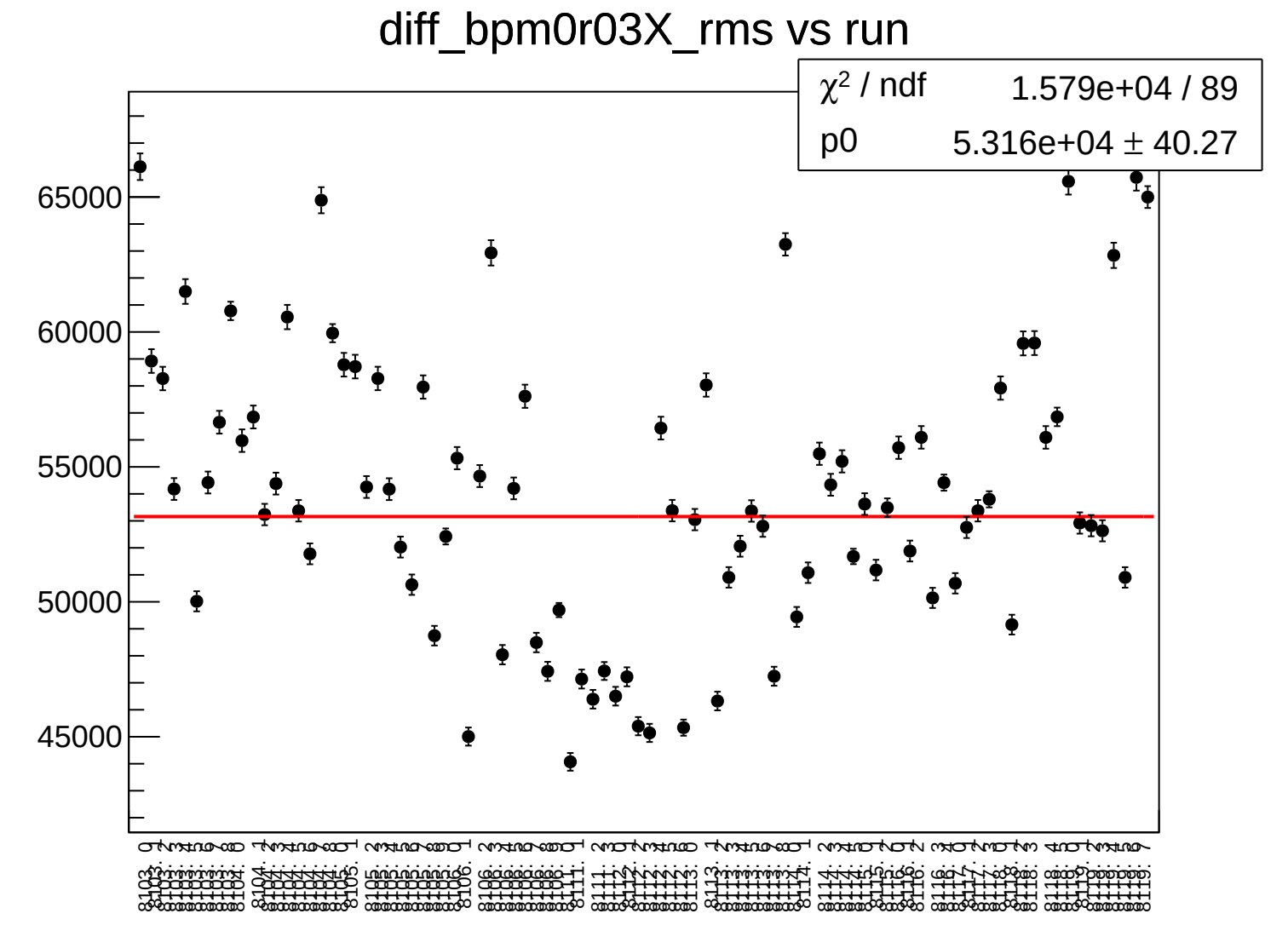

diff_bpm0l10Y_mean vs run
χ² / ndf 97.64 / 89
p0 −15.41 ± 1.055
pull
Entries 90
Mean 149.7
Std Dev 0

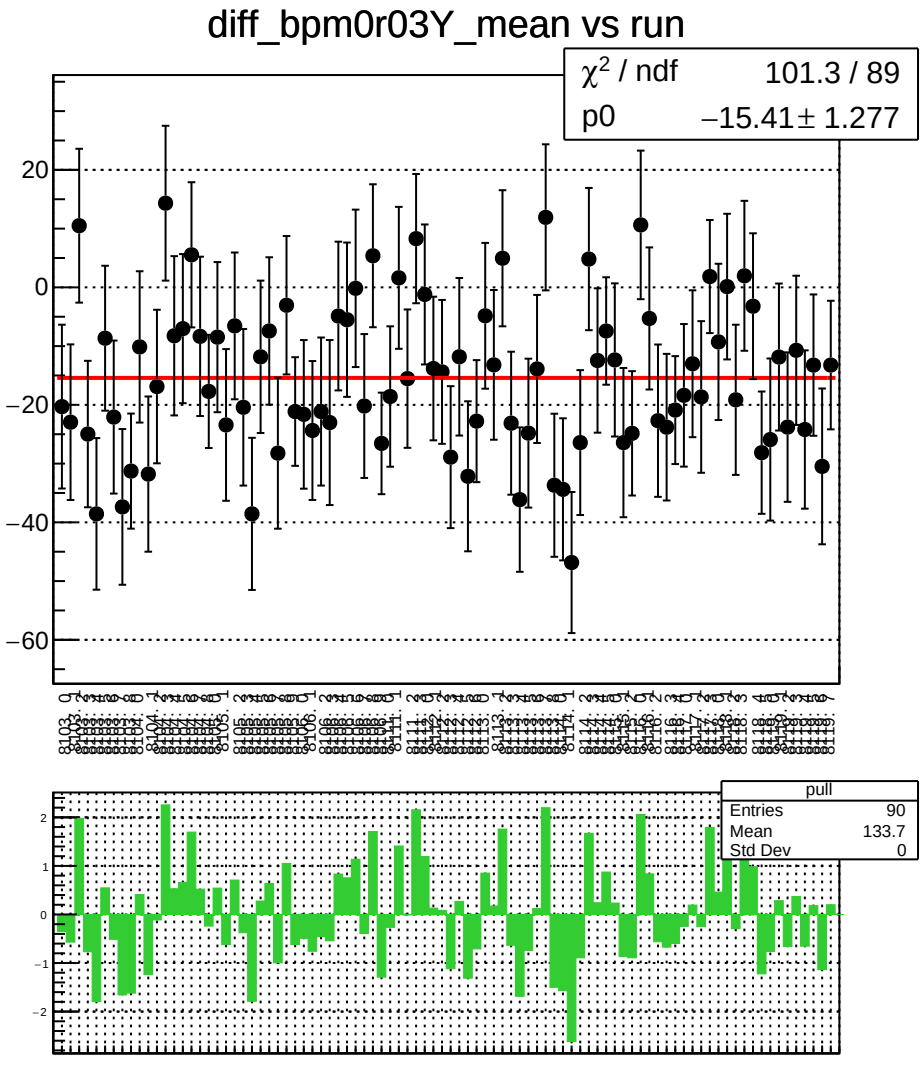

pull1D
Entries 90
Mean 0.02129
Std Dev 1.041

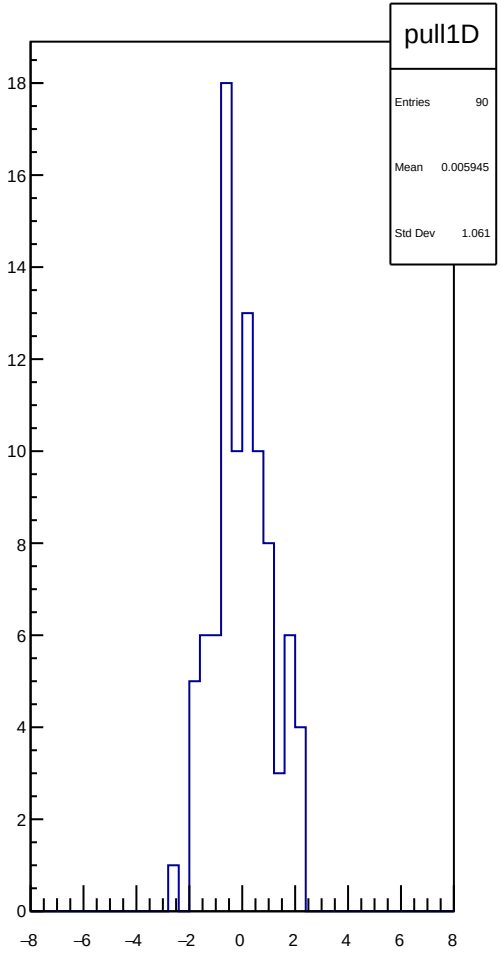

diff_bpm0l10Y_rms vs run
χ² / ndf 587.2 / 89
p0 989.4 ± 0.7462
1080
1060
1040
1020
1000
980
960
940

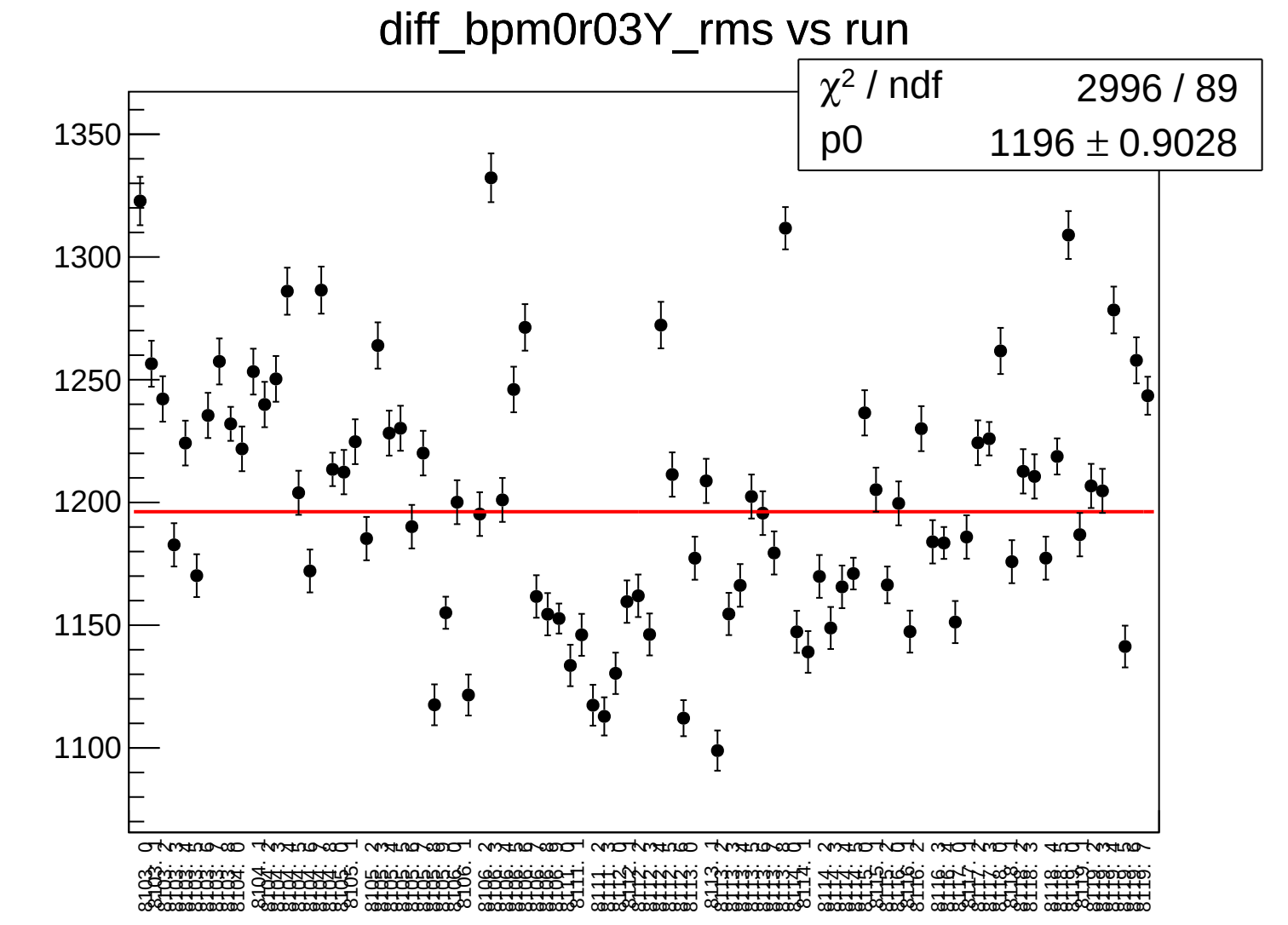

diff_bpm0r03X_mean vs run
χ² / ndf 81.33 / 89
p0 −39.5 ± 56.94
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 90
Mean −80.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

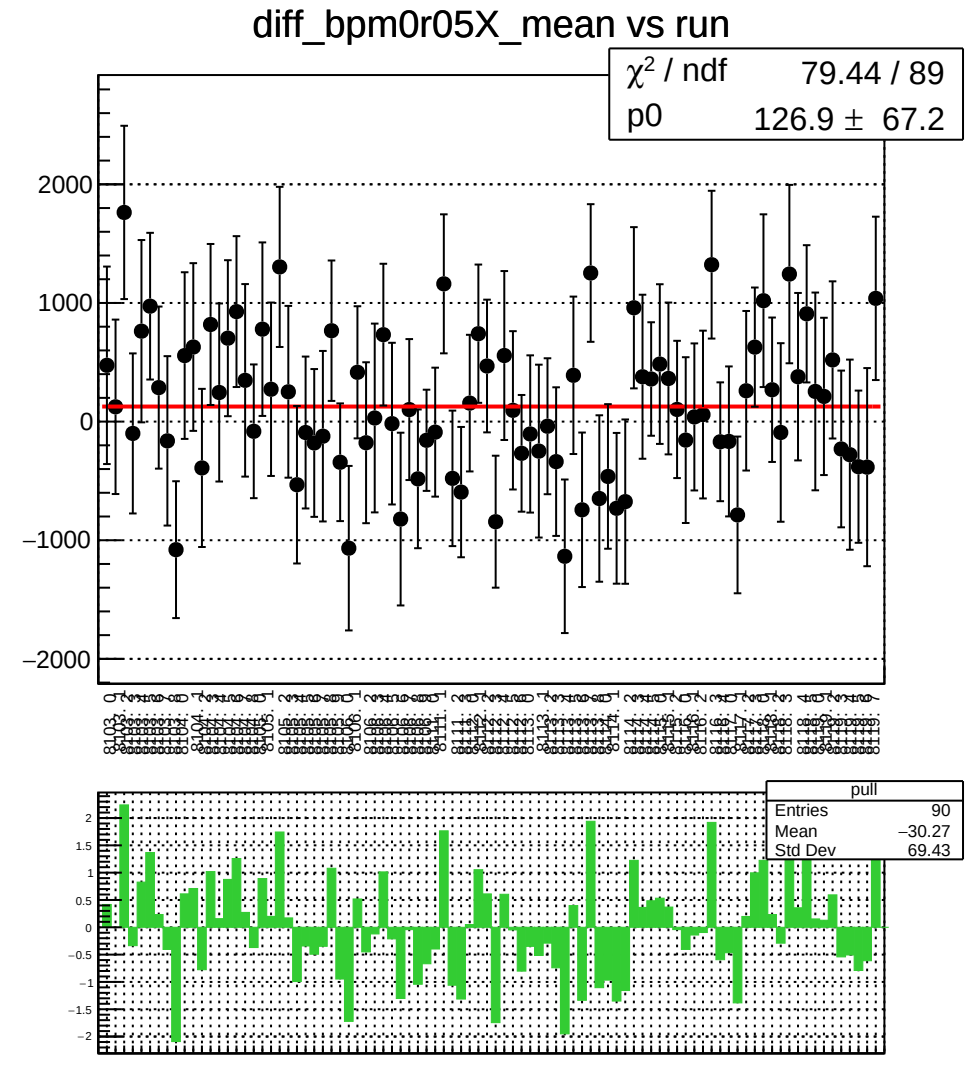

pull1D
Entries 90
Mean −0.01708
Std Dev 0.9504
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

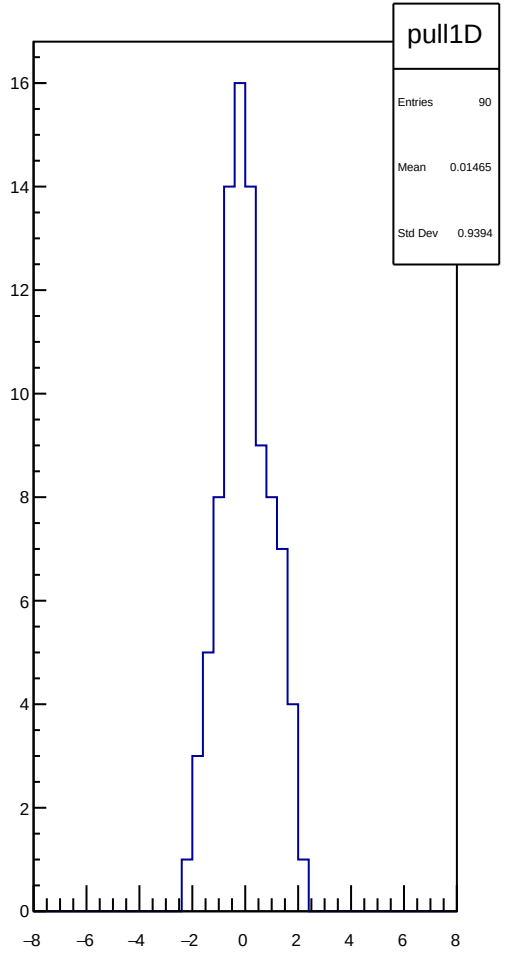

diff_bpm0r03X_rms vs run
χ² / ndf 1.579e+04 / 89
p0 5.316e+04 ± 40.27
65000
60000
55000
50000
45000

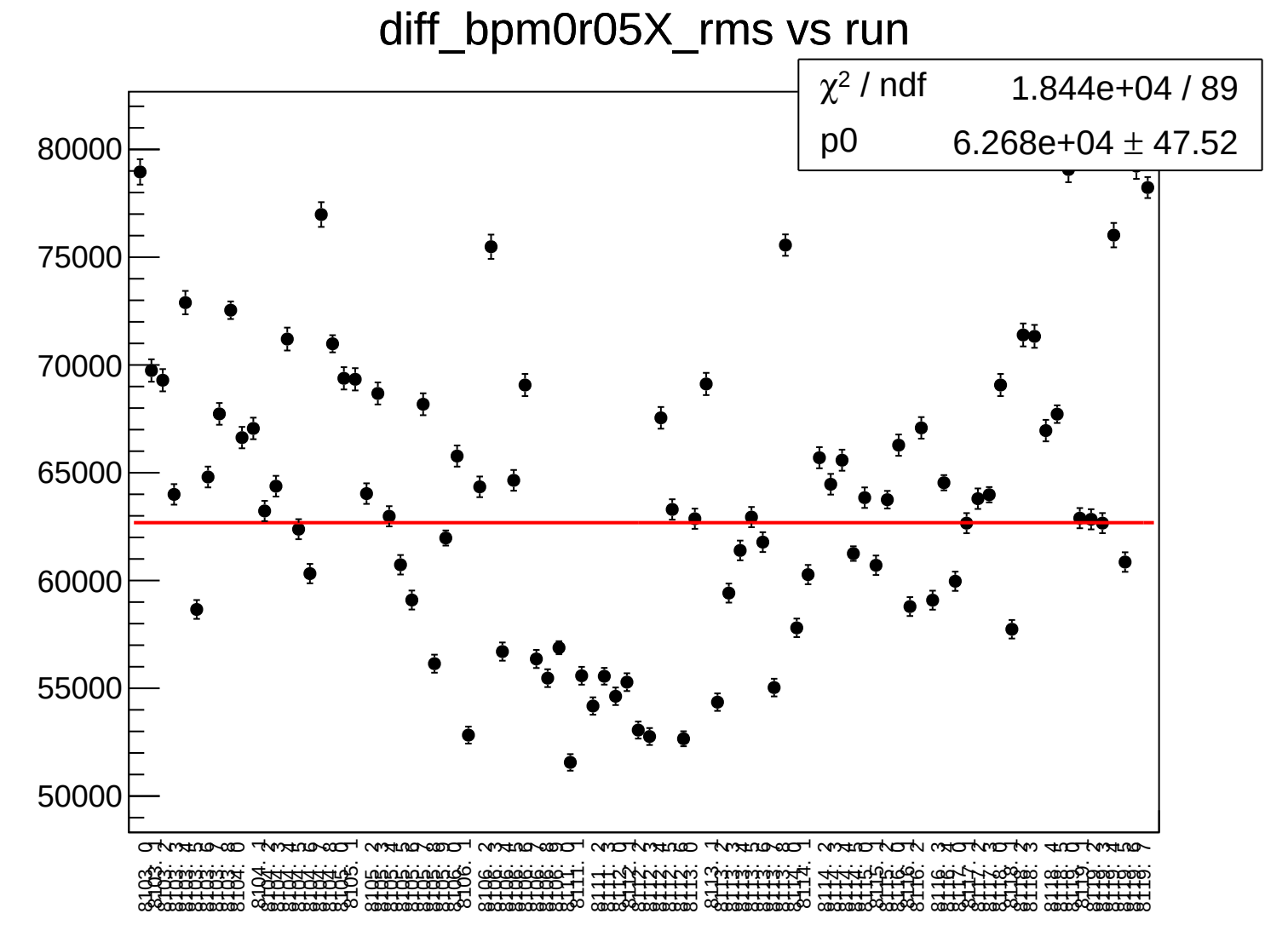

diff_bpm0r03Y_mean vs run
χ² / ndf 101.3 / 89
p0 −15.41 ± 1.277
pull
Entries 90
Mean 133.7
Std Dev 0

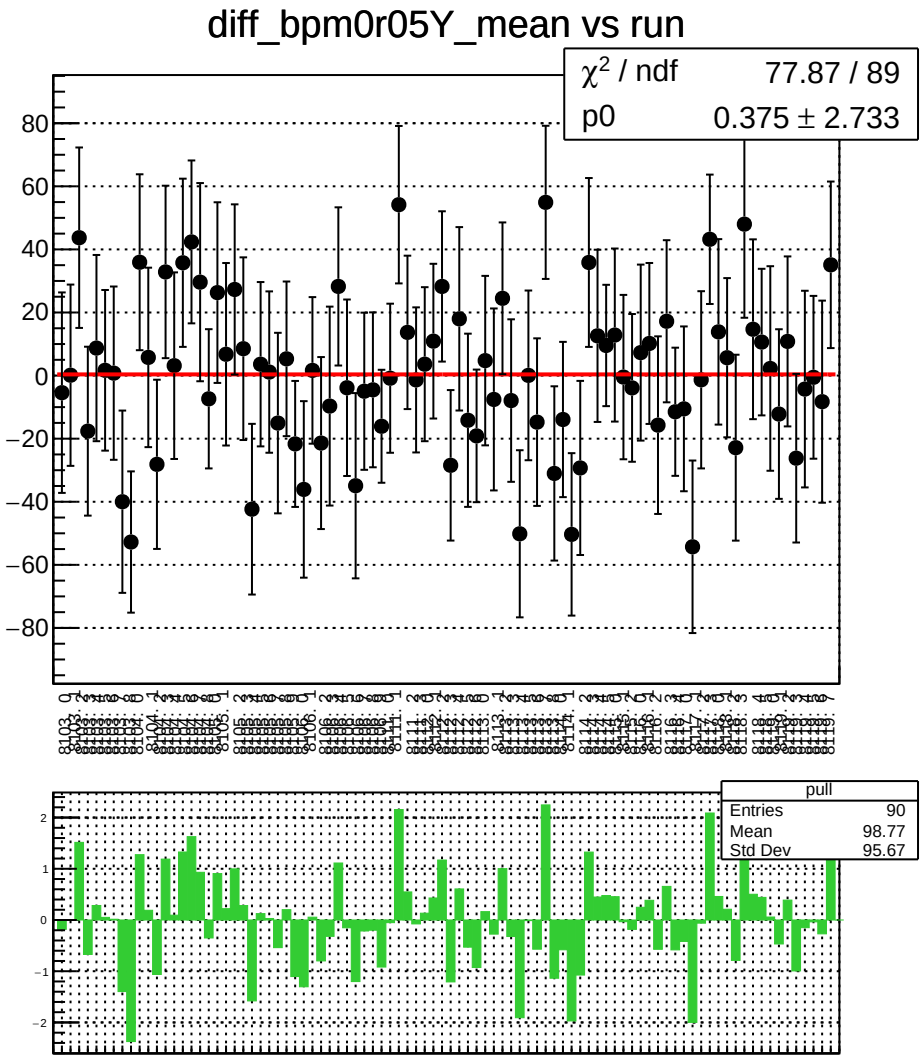

pull1D
Entries 90
Mean 0.005945
Std Dev 1.061

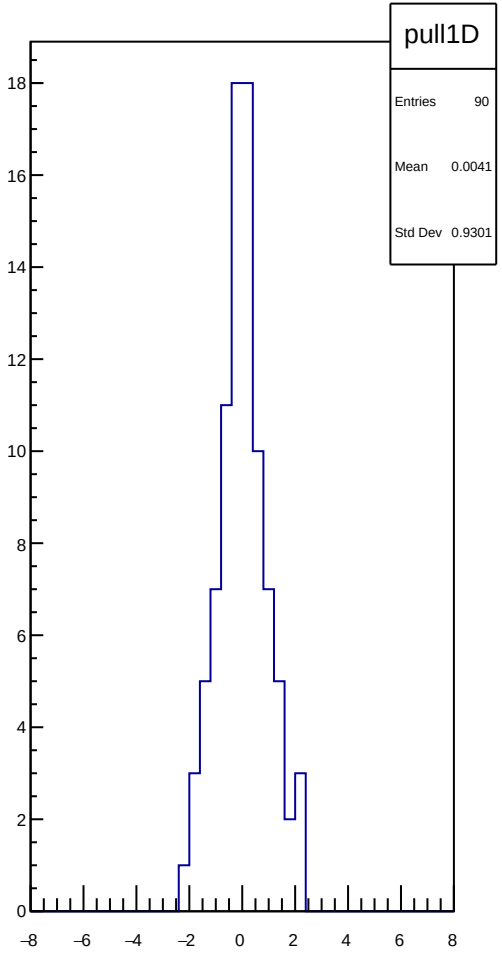

diff_bpm0r03Y_rms vs run
χ² / ndf 2996 / 89
p0 1196 ± 0.9028
1350
1300
1250
1200
1150
1100

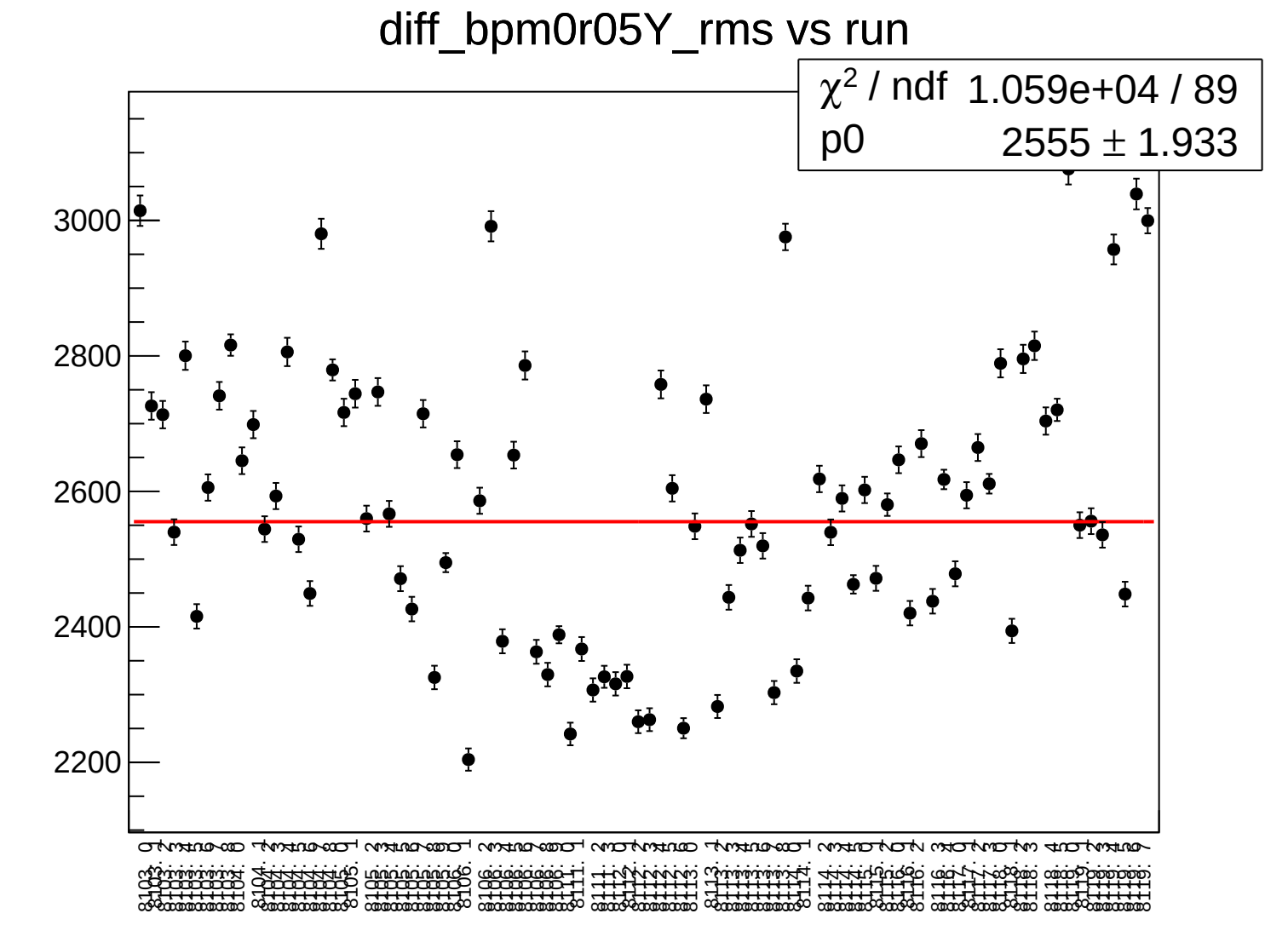

diff_bpm0r05X_mean vs run
χ² / ndf 79.44 / 89
p0 126.9 ± 67.2
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −30.27
Std Dev 69.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

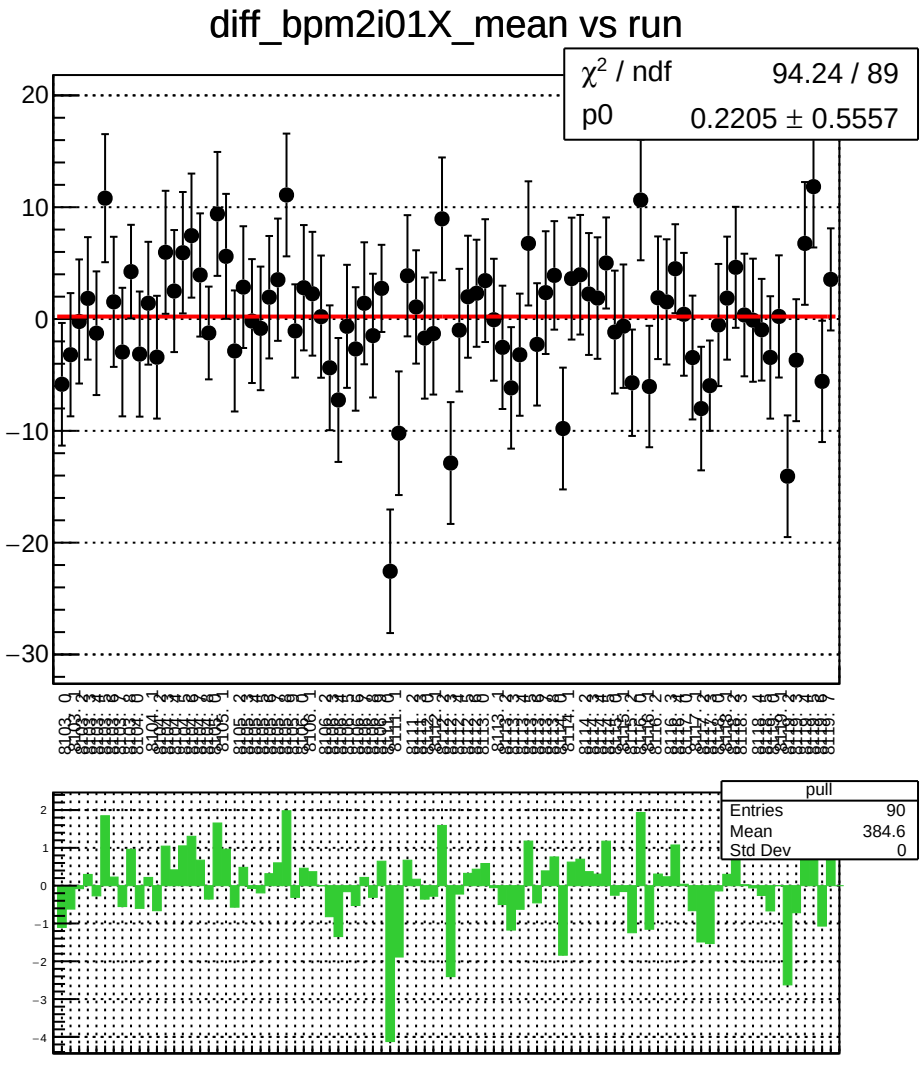

pull1D
Entries 90
Mean 0.01465
Std Dev 0.9394
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

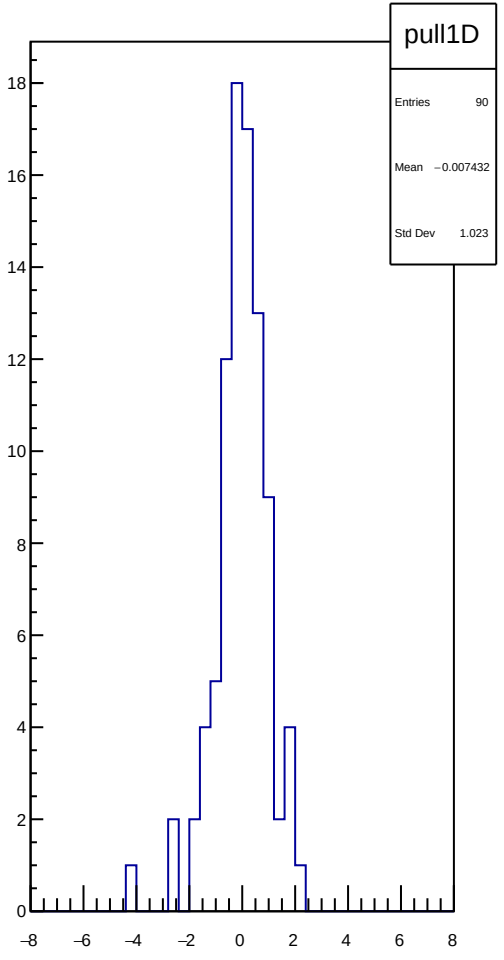

diff_bpm0r05X_rms vs run
χ² / ndf 1.844e+04 / 89
p0 6.268e+04 ± 47.52
80000
75000
70000
65000
60000
55000
50000

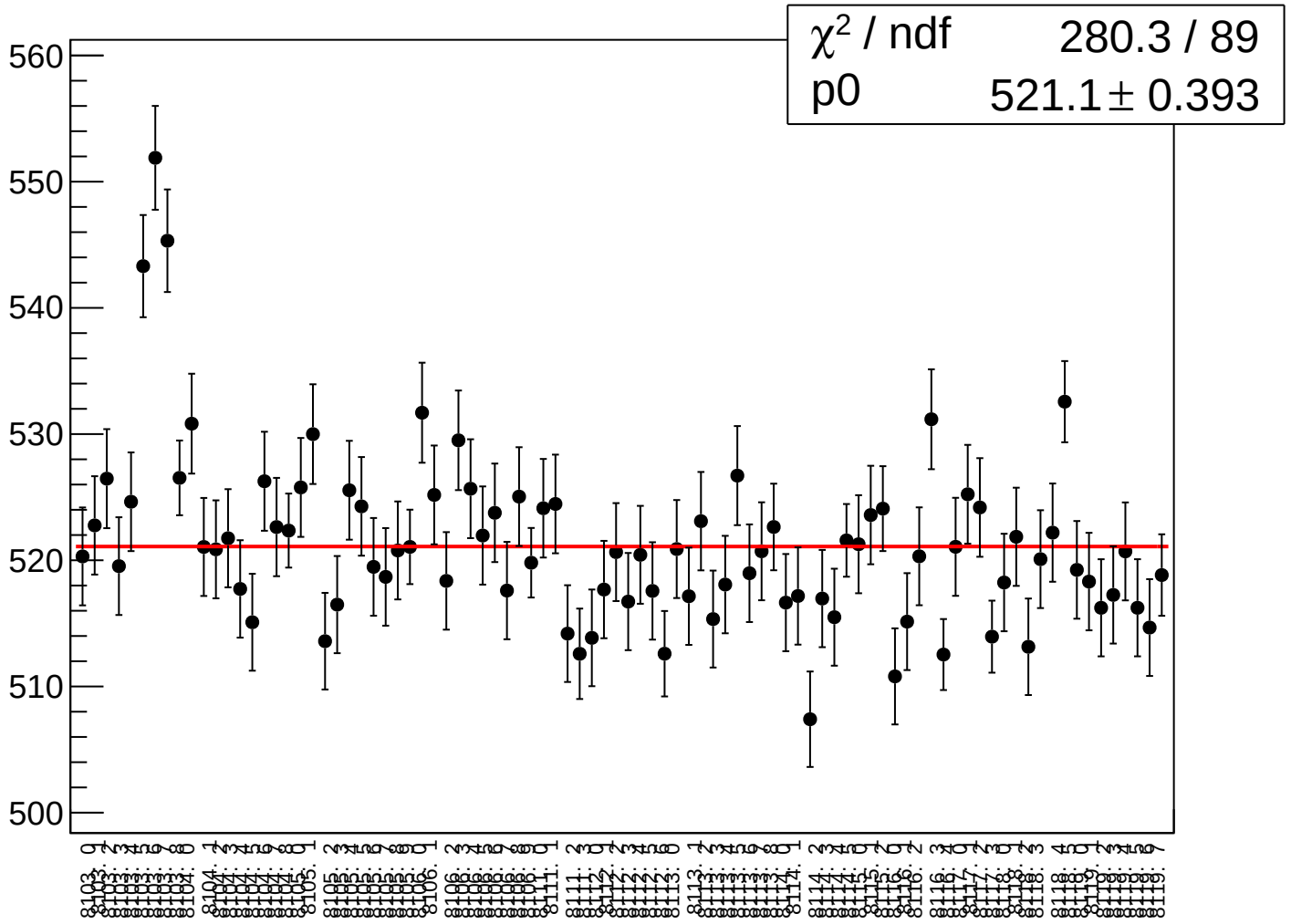

diff_bpm0r05Y_mean vs run
χ² / ndf 77.87 / 89
p0 0.375 ± 2.733
pull
Entries 90
Mean 98.77
Std Dev 95.67

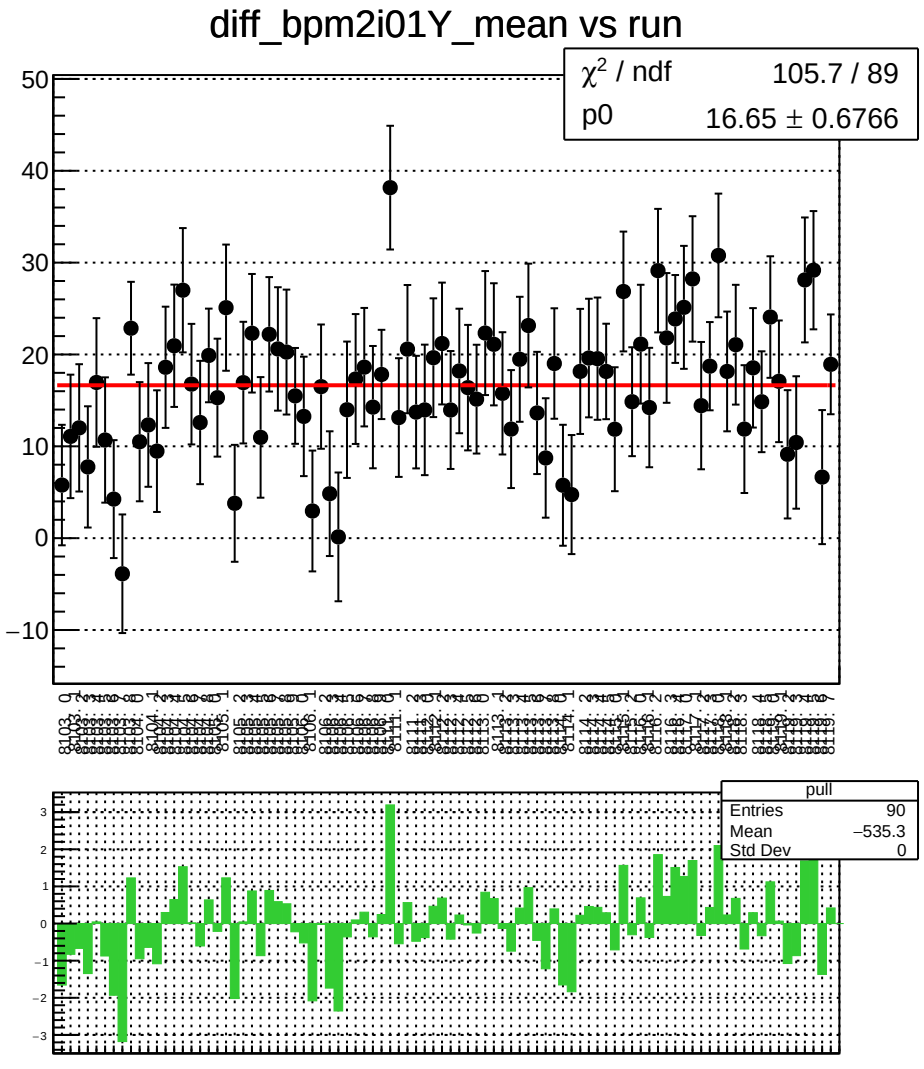

pull1D
Entries 90
Mean 0.0041
Std Dev 0.9301

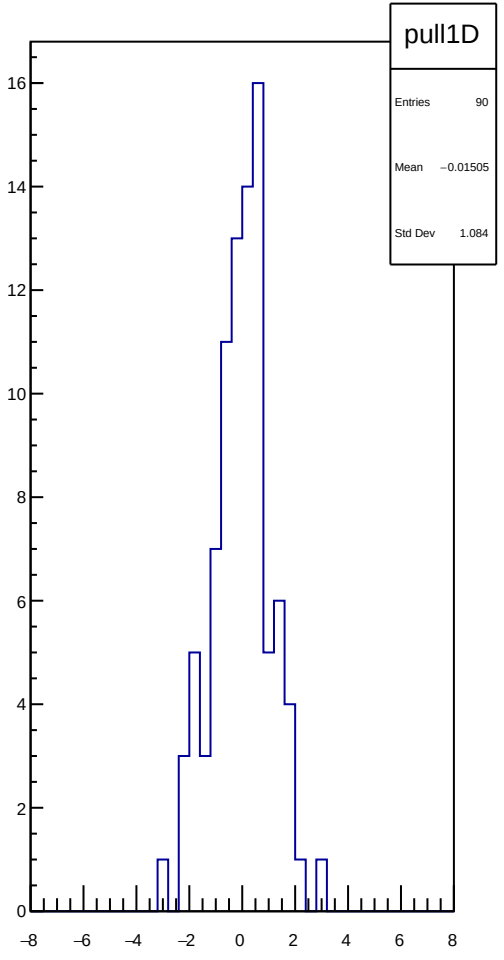

diff_bpm0r05Y_rms vs run
χ² / ndf 1.059e+04 / 89
p0 2555 ± 1.933
3000
2800
2600
2400
2200

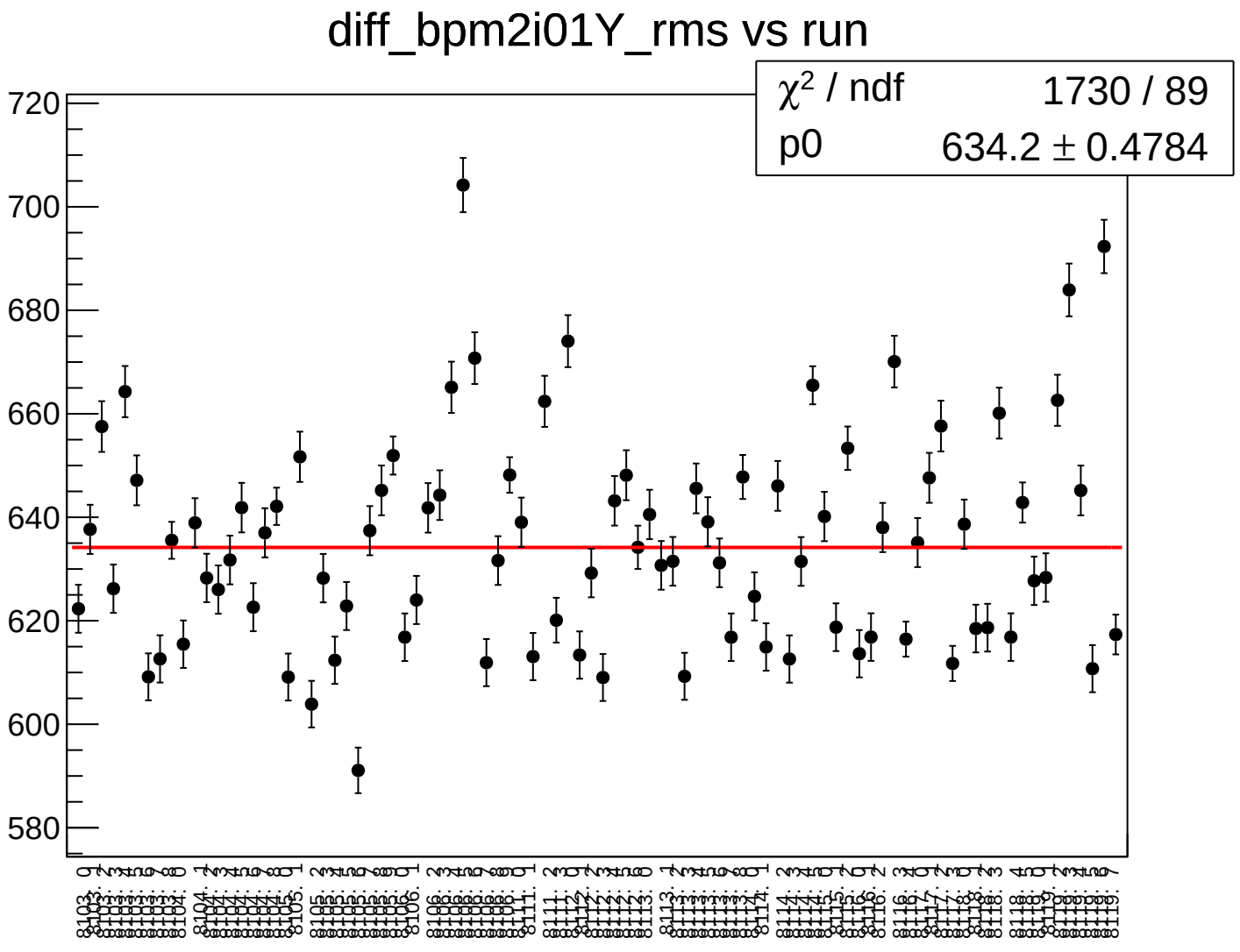

diff_bpm2i01X_mean vs run
χ² / ndf 94.24 / 89
p0 0.2205 ± 0.5557
pull
Entries 90
Mean 384.6
Std Dev 0

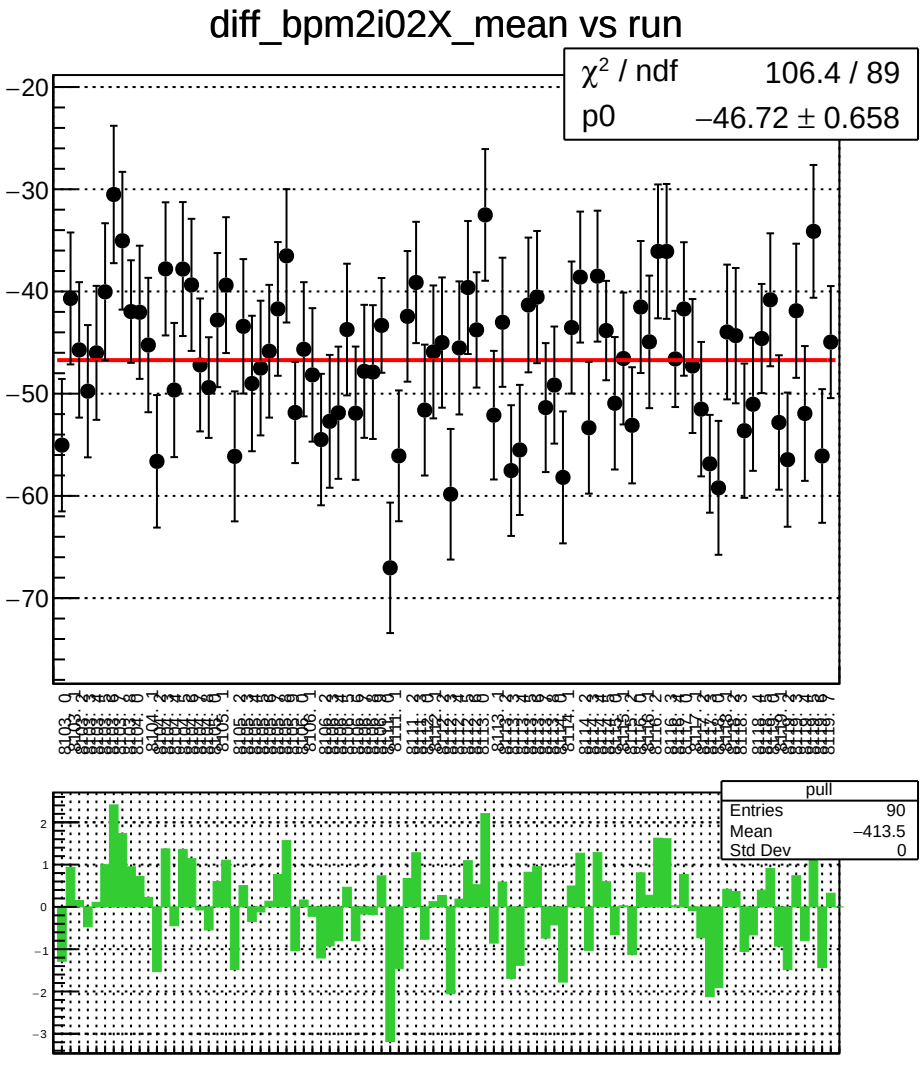

pull1D
Entries 90
Mean −0.007432
Std Dev 1.023

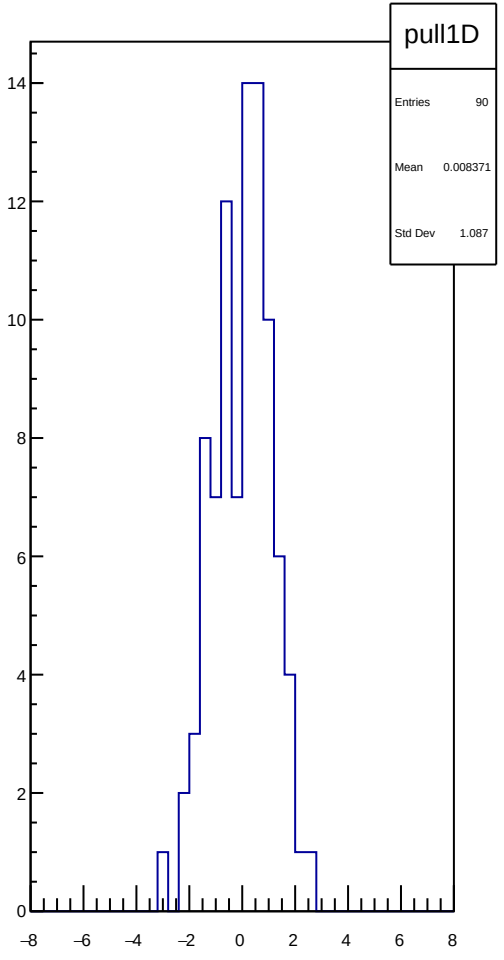

diff_bpm2i01X_rms vs run
χ² / ndf 280.3 / 89
p0 521.1 ± 0.393
560
550
540
530
520
510
500

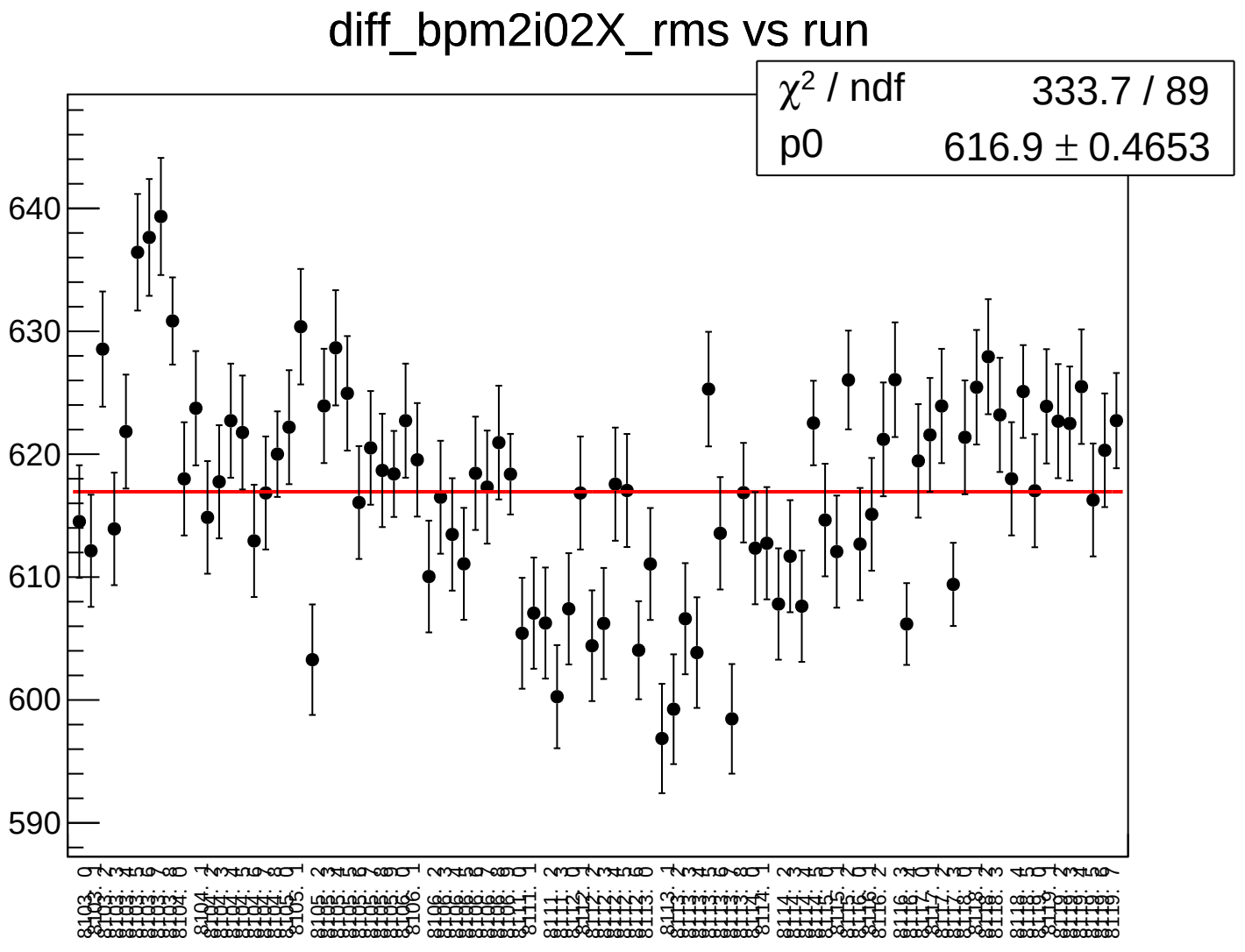

diff_bpm2i01Y_mean vs run
χ² / ndf 105.7 / 89
p0 16.65 ± 0.6766
pull
Entries 90
Mean −535.3
Std Dev 0

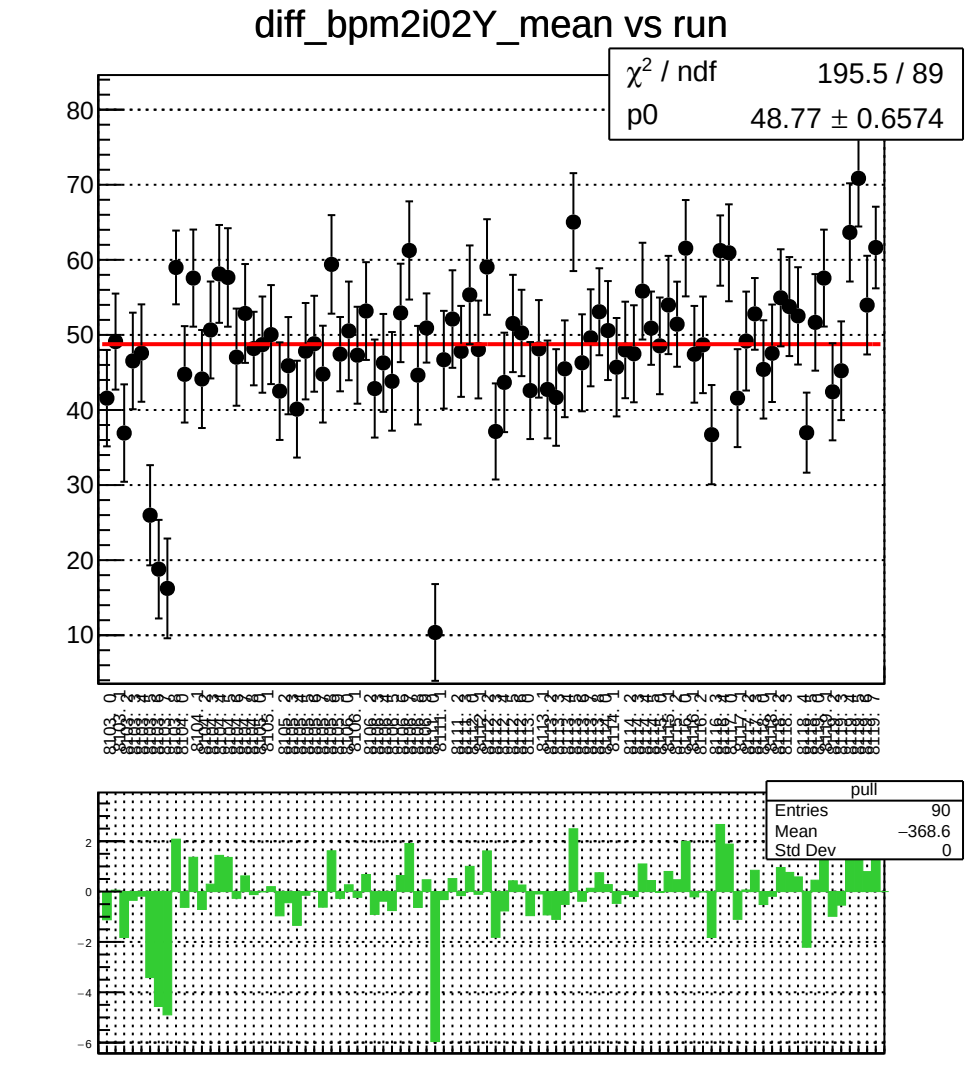

pull1D
Entries 90
Mean −0.01505
Std Dev 1.084

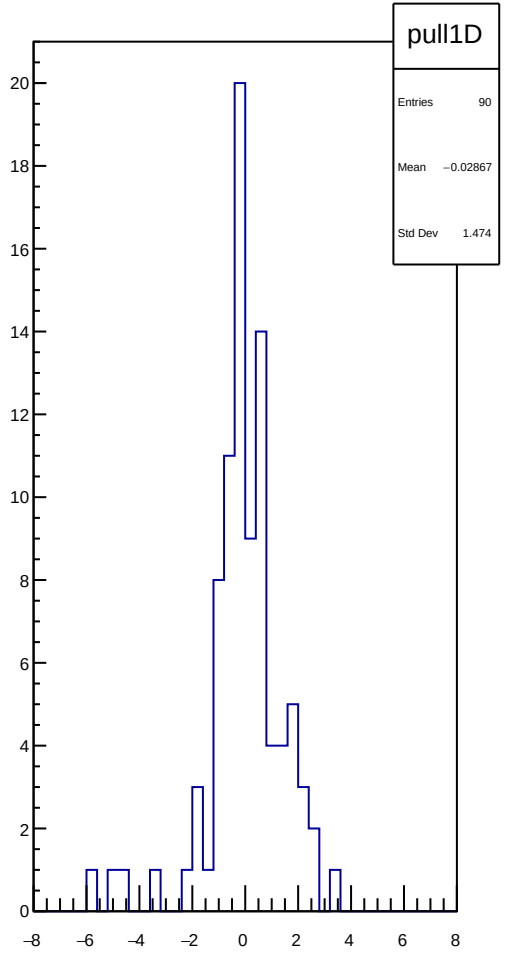

diff_bpm2i01Y_rms vs run
χ² / ndf 1730 / 89
p0 634.2 ± 0.4784
720
700
680
660
640
620
600
580

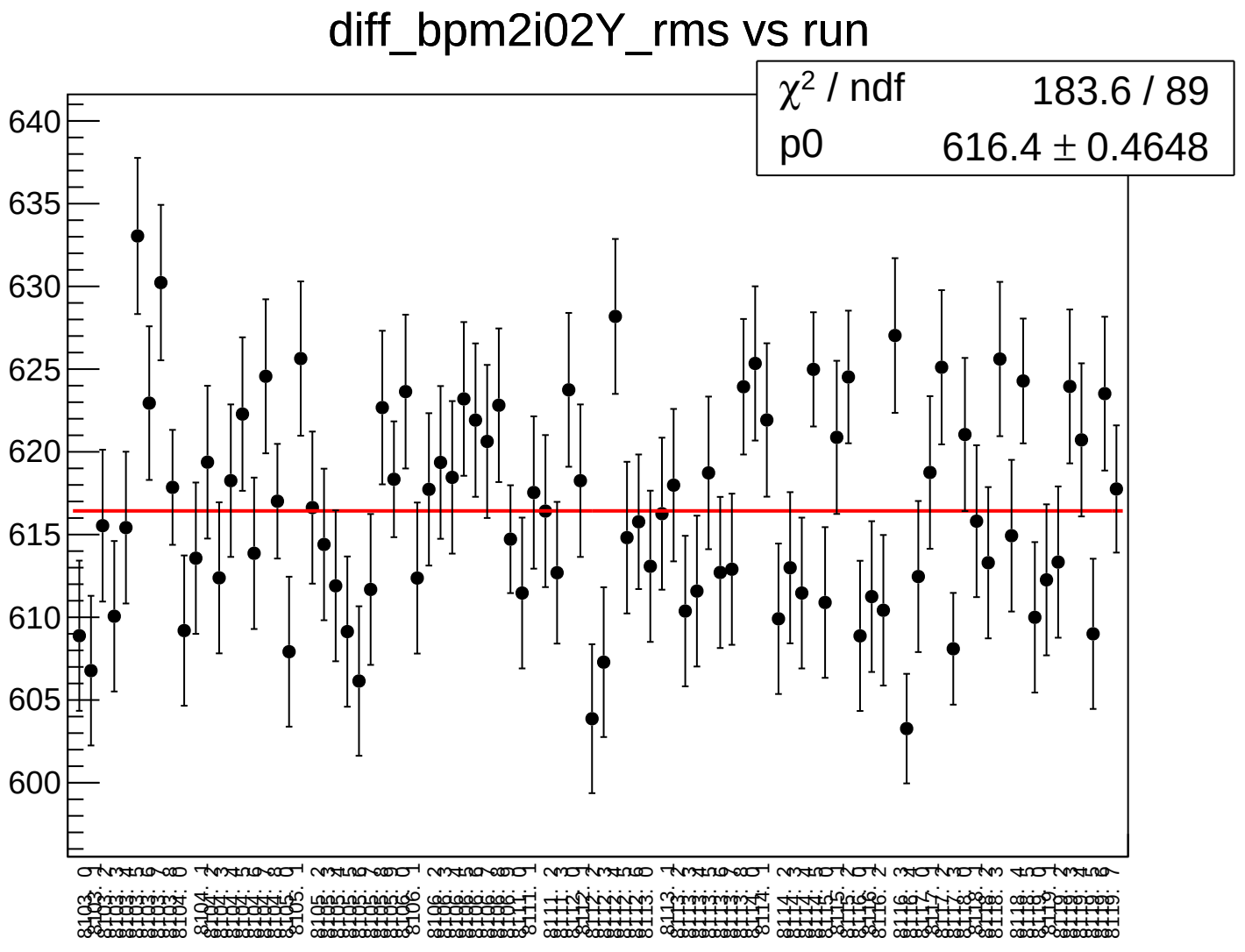

diff_bpm2i02X_mean vs run
χ² / ndf 106.4 / 89
p0 −46.72 ± 0.658
pull
Entries 90
Mean −413.5
Std Dev 0

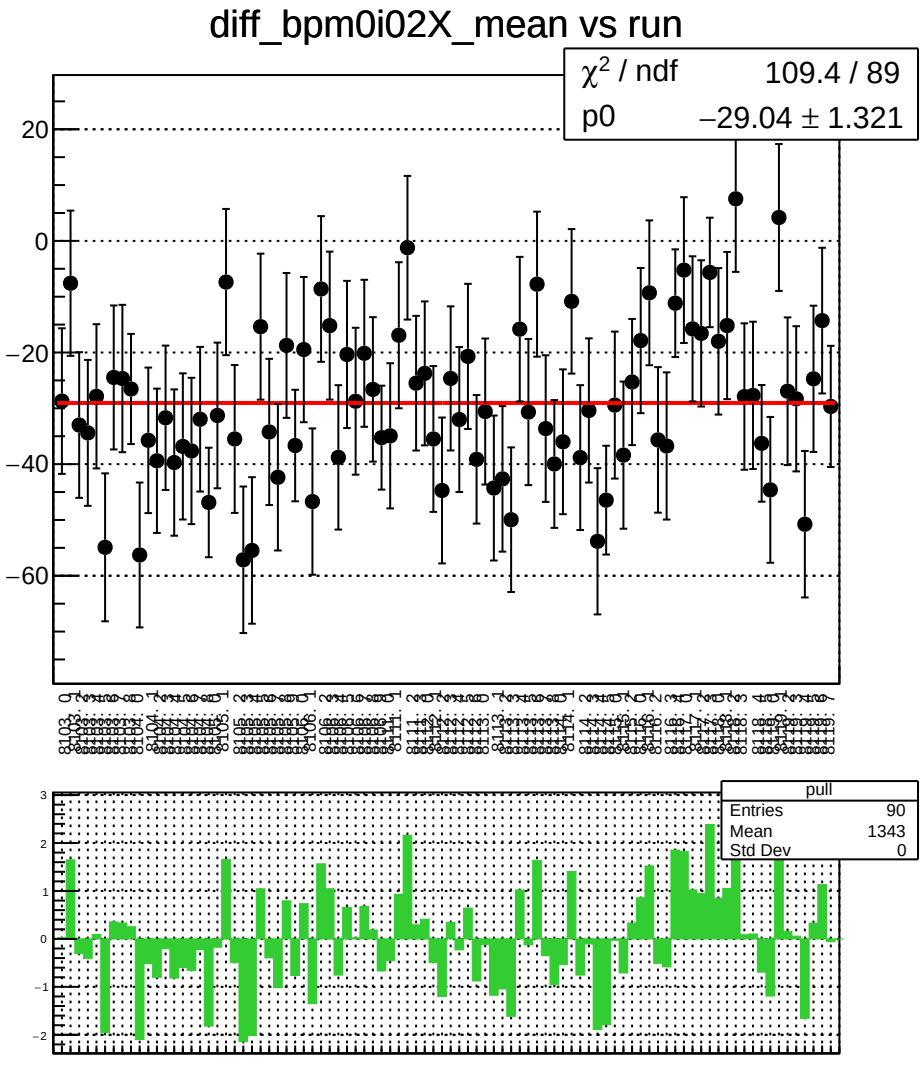

pull1D
Entries 90
Mean 0.008371
Std Dev 1.087

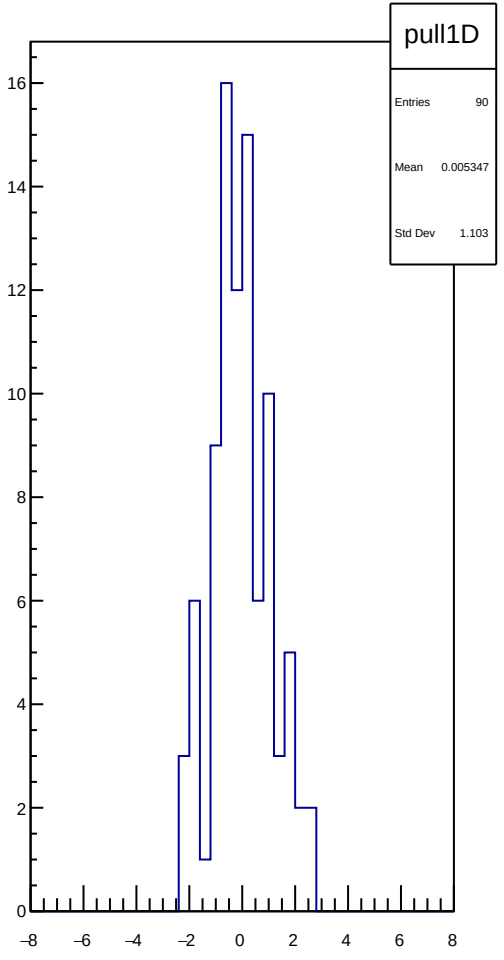

diff_bpm2i02X_rms vs run
χ² / ndf 333.7 / 89
p0 616.9 ± 0.4653
640
630
620
610
600
590

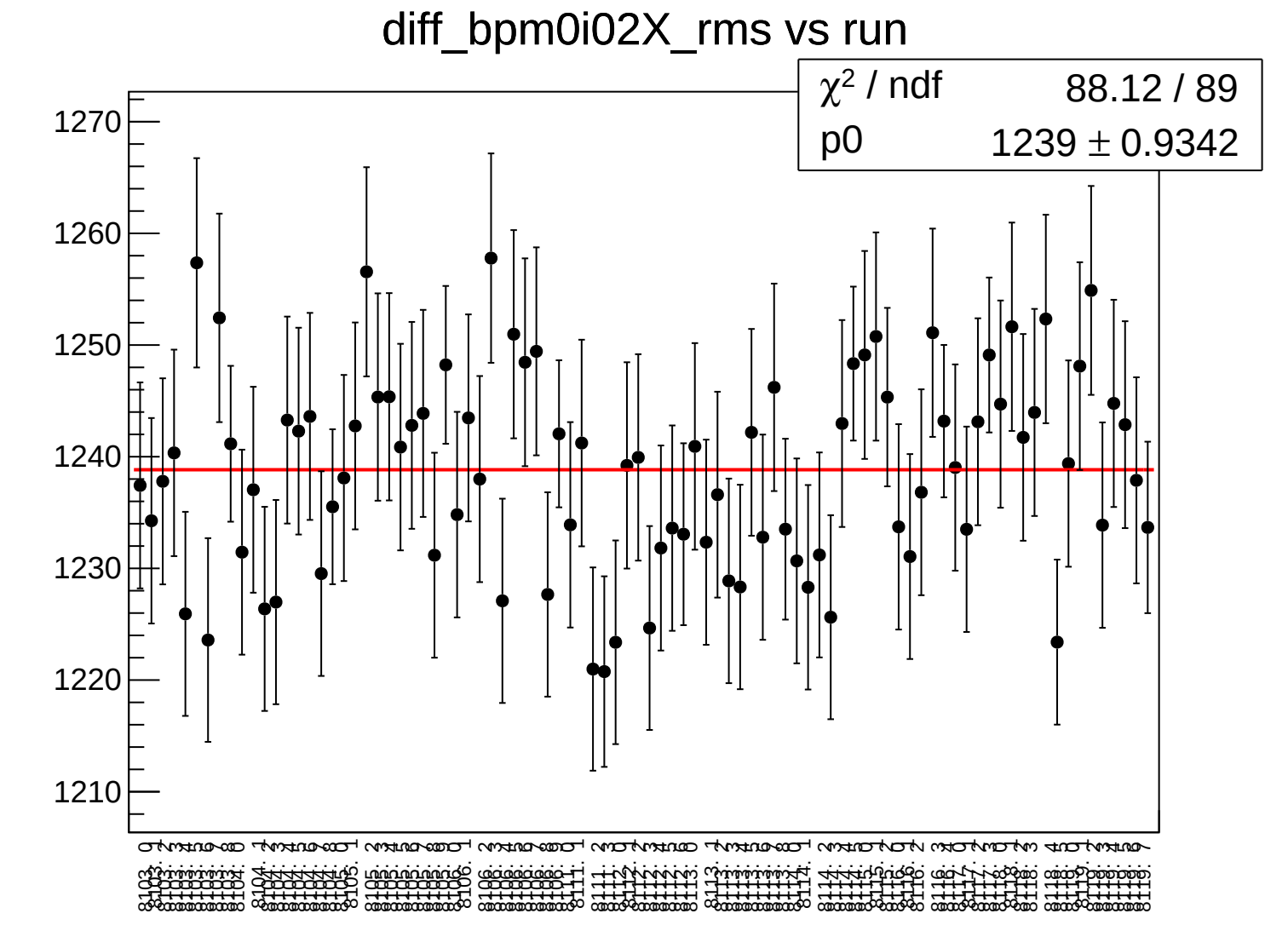

diff_bpm2i02Y_mean vs run
χ² / ndf 195.5 / 89
p0 48.77 ± 0.6574
pull
Entries 90
Mean −368.6
Std Dev 0

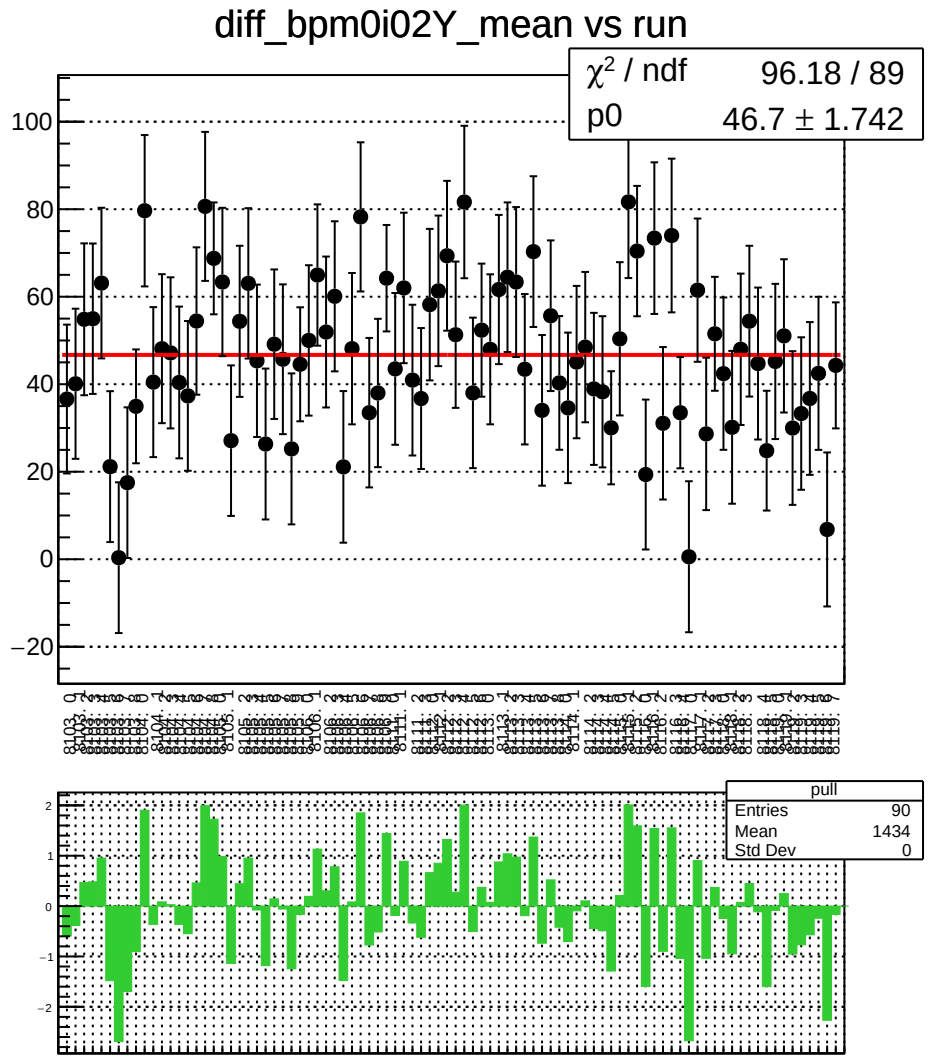

pull1D
Entries 90
Mean −0.02867
Std Dev 1.474

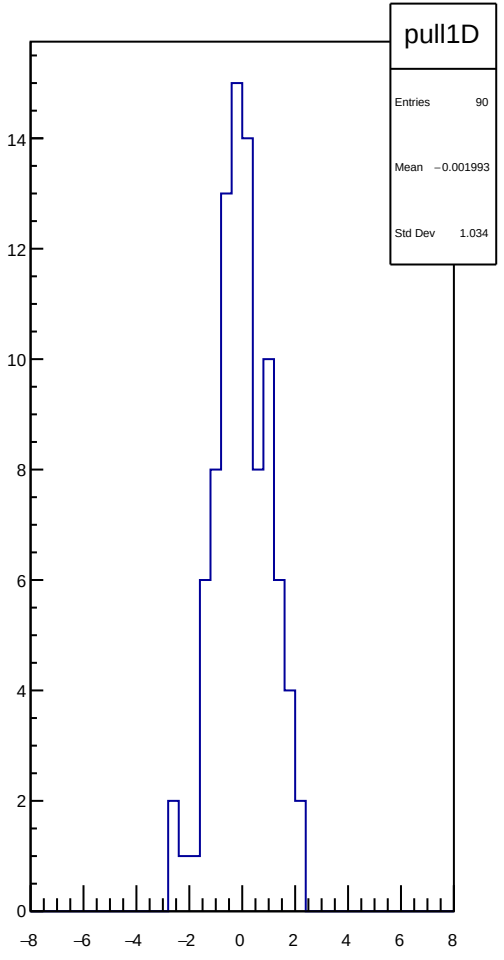

diff_bpm2i02Y_rms vs run
χ² / ndf 183.6 / 89
p0 616.4 ± 0.4648
640
635
630
625
620
615
610
605
600

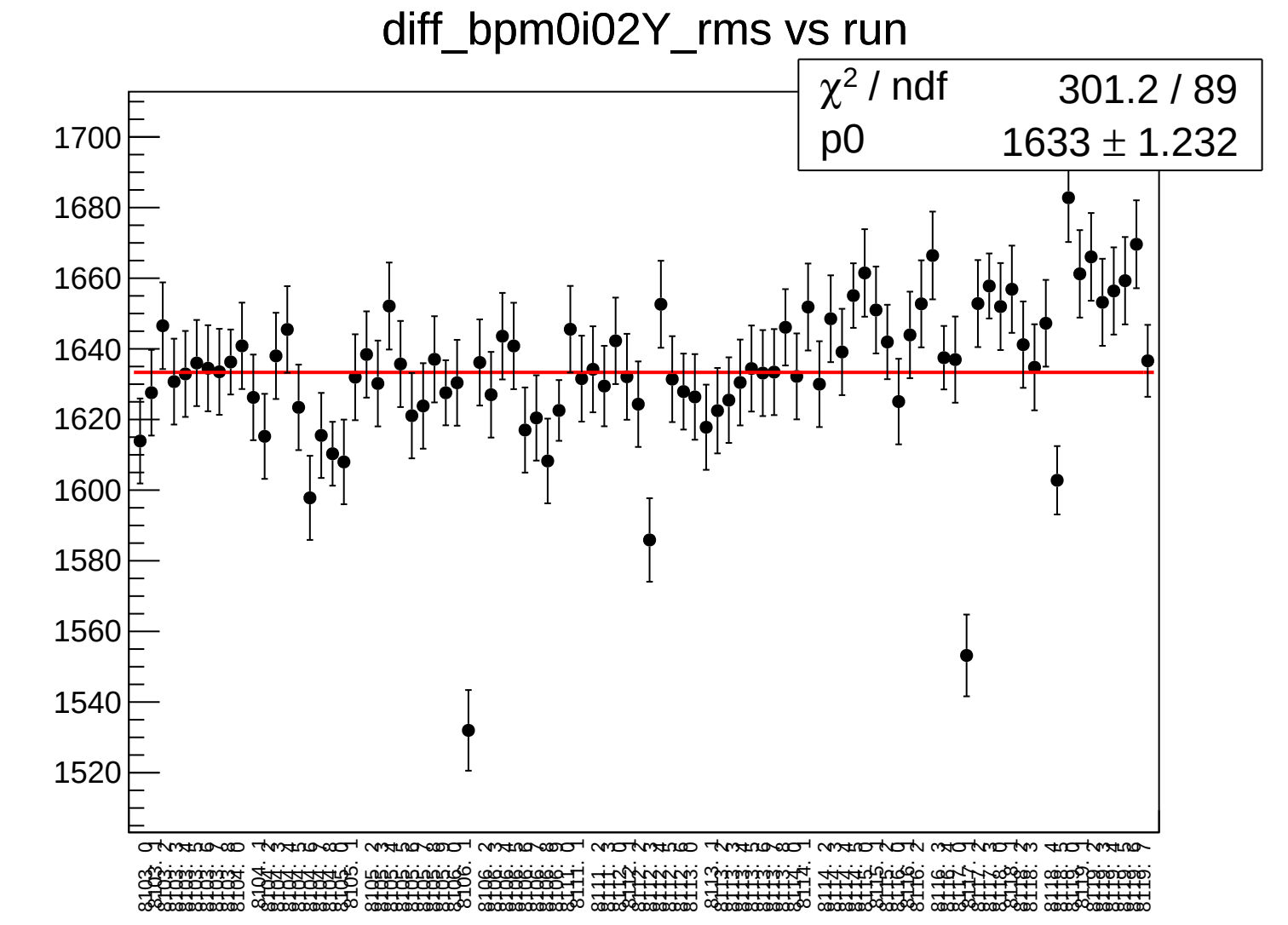

diff_bpm0i02X_mean vs run
χ² / ndf 109.4 / 89
p0 −29.04 ± 1.321
20
0
−20
−40
−60
pull
Entries 90
Mean 1343
Std Dev 0
3
2
1
0
−1
−2

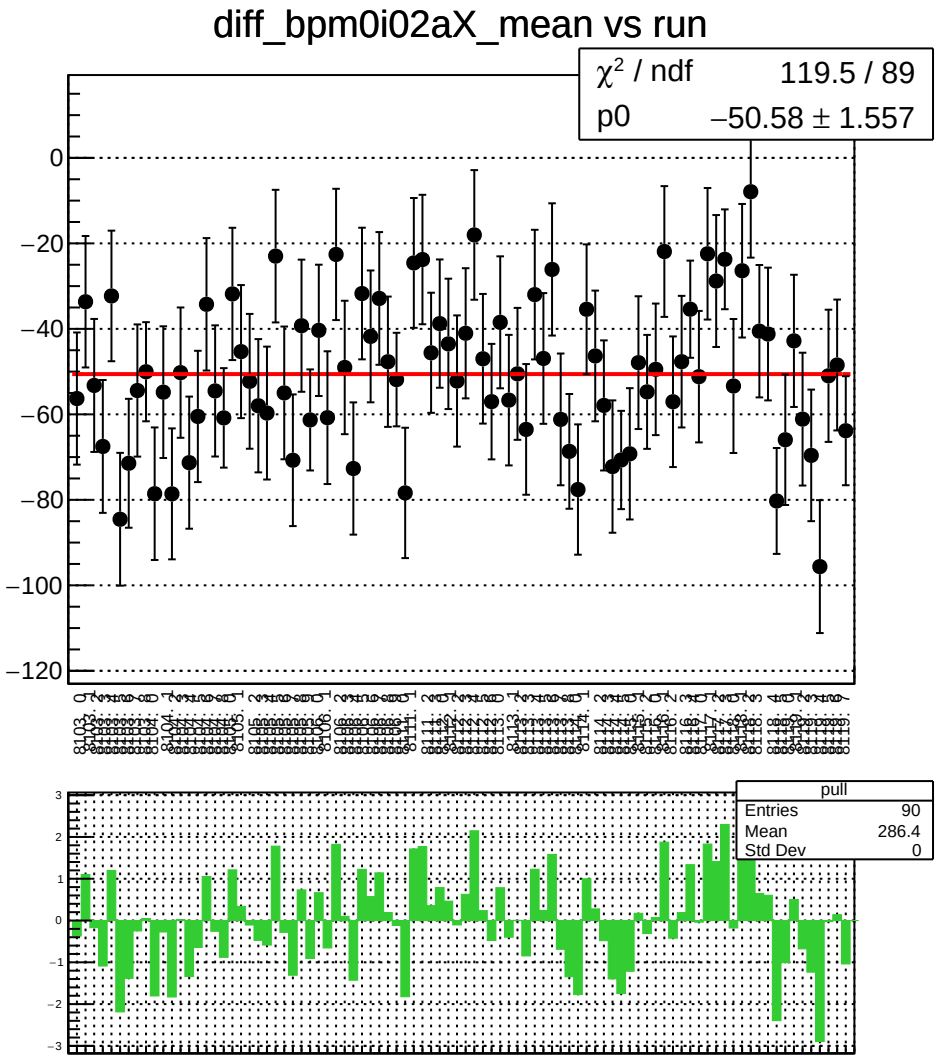

pull1D
Entries 90
Mean 0.005347
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

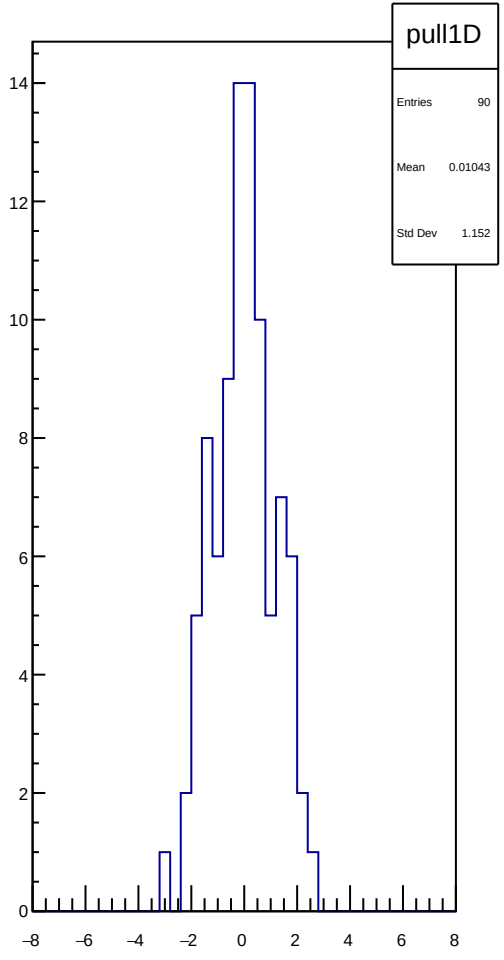

diff_bpm0i02X_rms vs run
χ² / ndf 88.12 / 89
p0 1239 ± 0.9342
1270
1260
1250
1240
1230
1220
1210

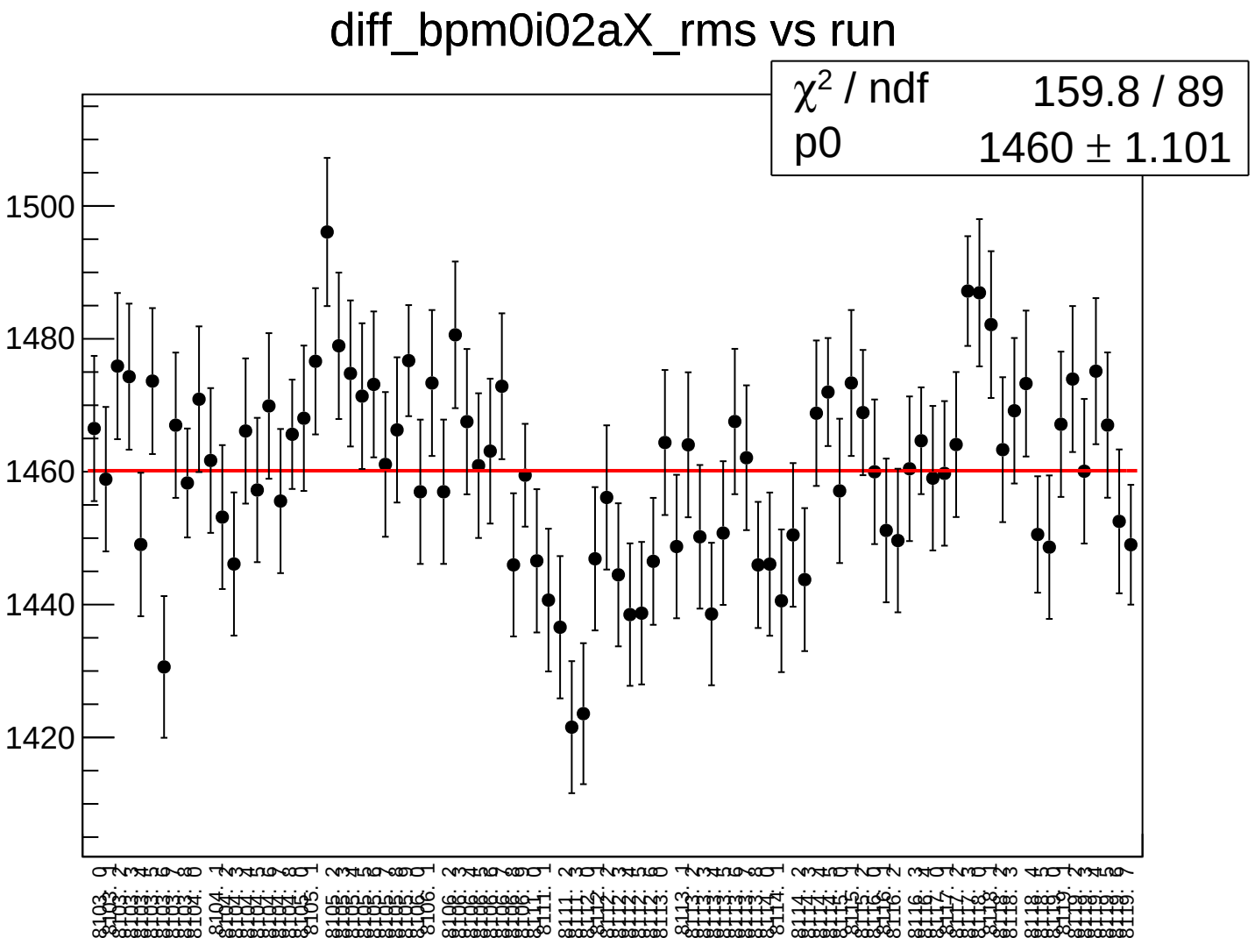

diff_bpm0i02Y_mean vs run
χ² / ndf 96.18 / 89
p0 46.7 ± 1.742
pull
Entries 90
Mean 1434
Std Dev 0

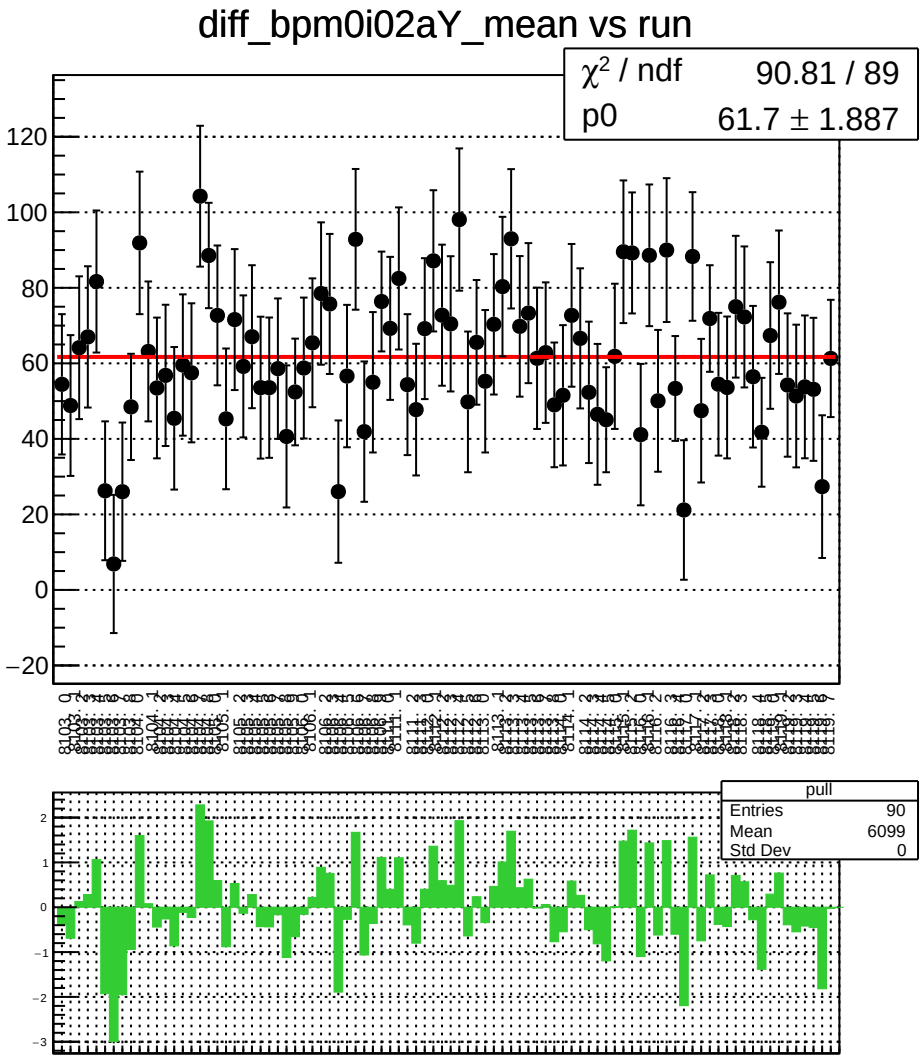

pull1D
Entries 90
Mean −0.001993
Std Dev 1.034

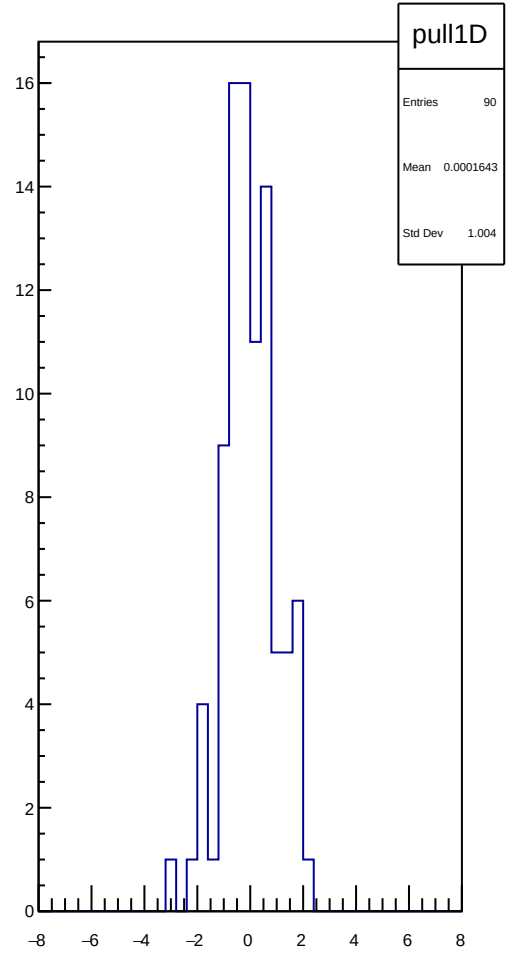

diff_bpm0i02Y_rms vs run
χ² / ndf 301.2 / 89
p0 1633 ± 1.232
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

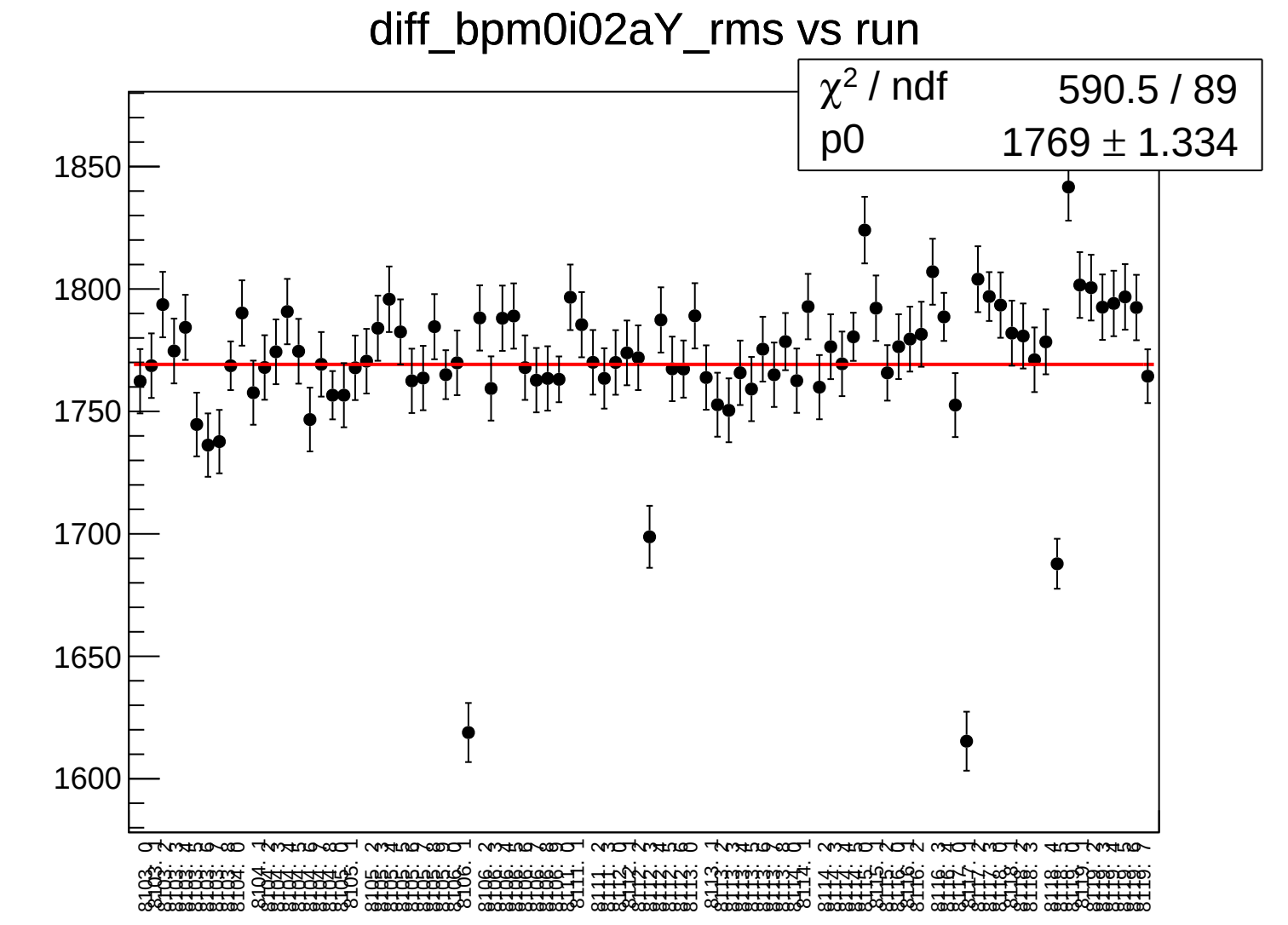

diff_bpm0i02aX_mean vs run
χ² / ndf 119.5 / 89
p0 −50.58 ± 1.557
0
−20
−40
−60
−80
−100
−120
pull
Entries 90
Mean 286.4
Std Dev 0
3
2
1
0
−1
−2
−3

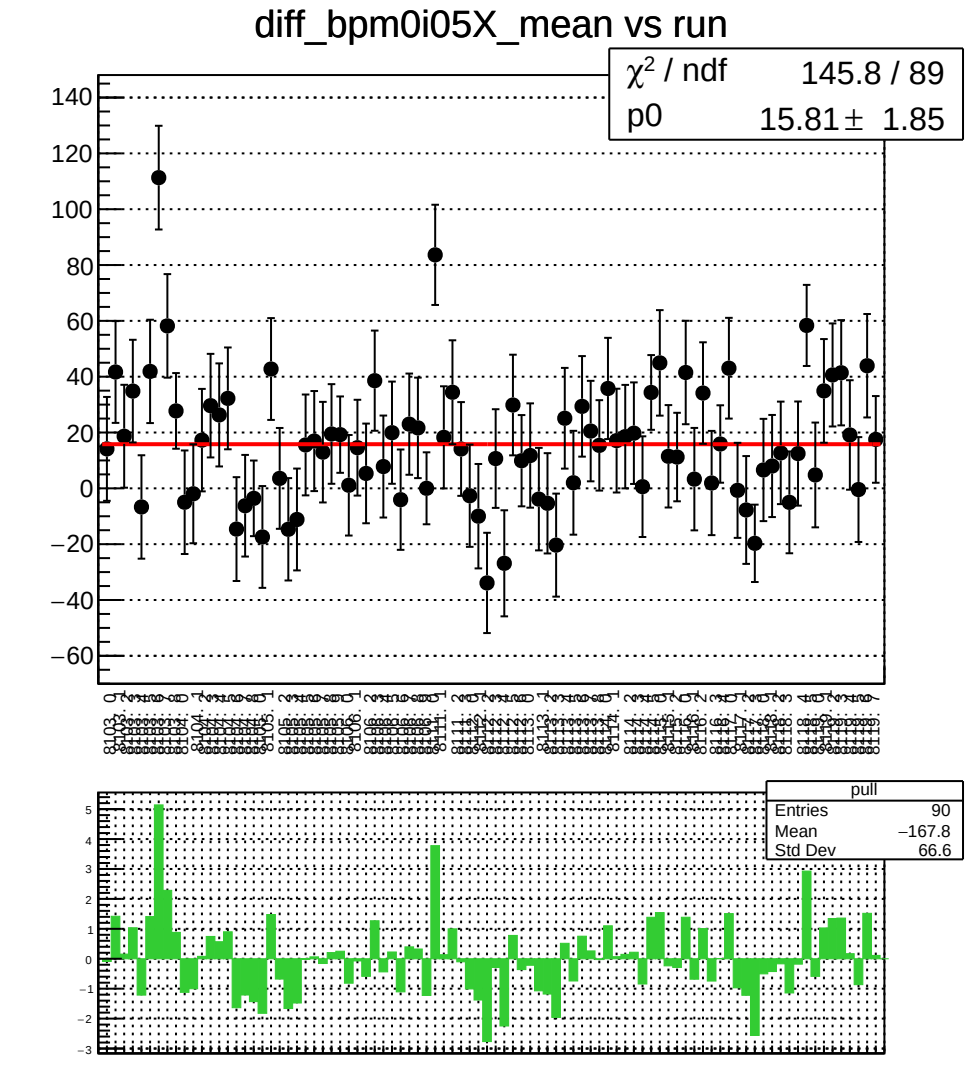

pull1D
Entries 90
Mean 0.01043
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

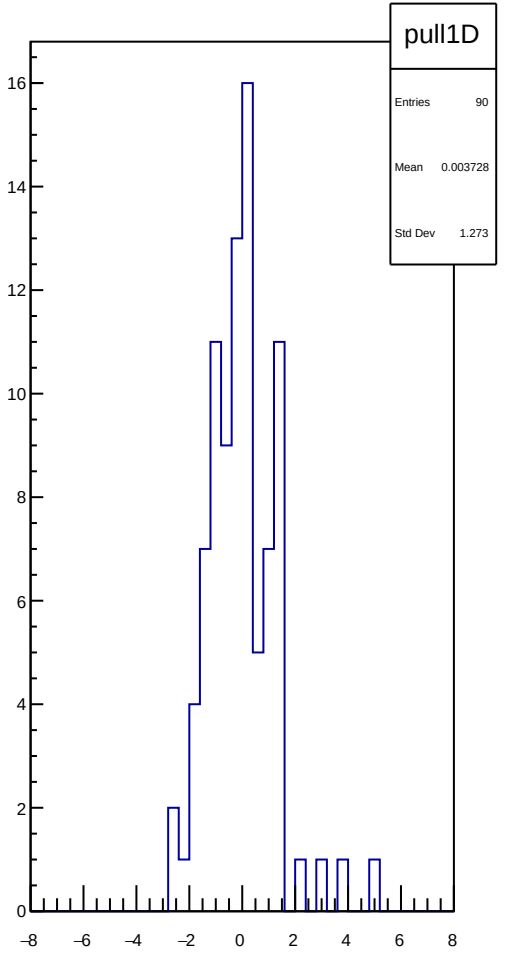

diff_bpm0i02aX_rms vs run
χ² / ndf 159.8 / 89
p0 1460 ± 1.101
1500
1480
1460
1440
1420

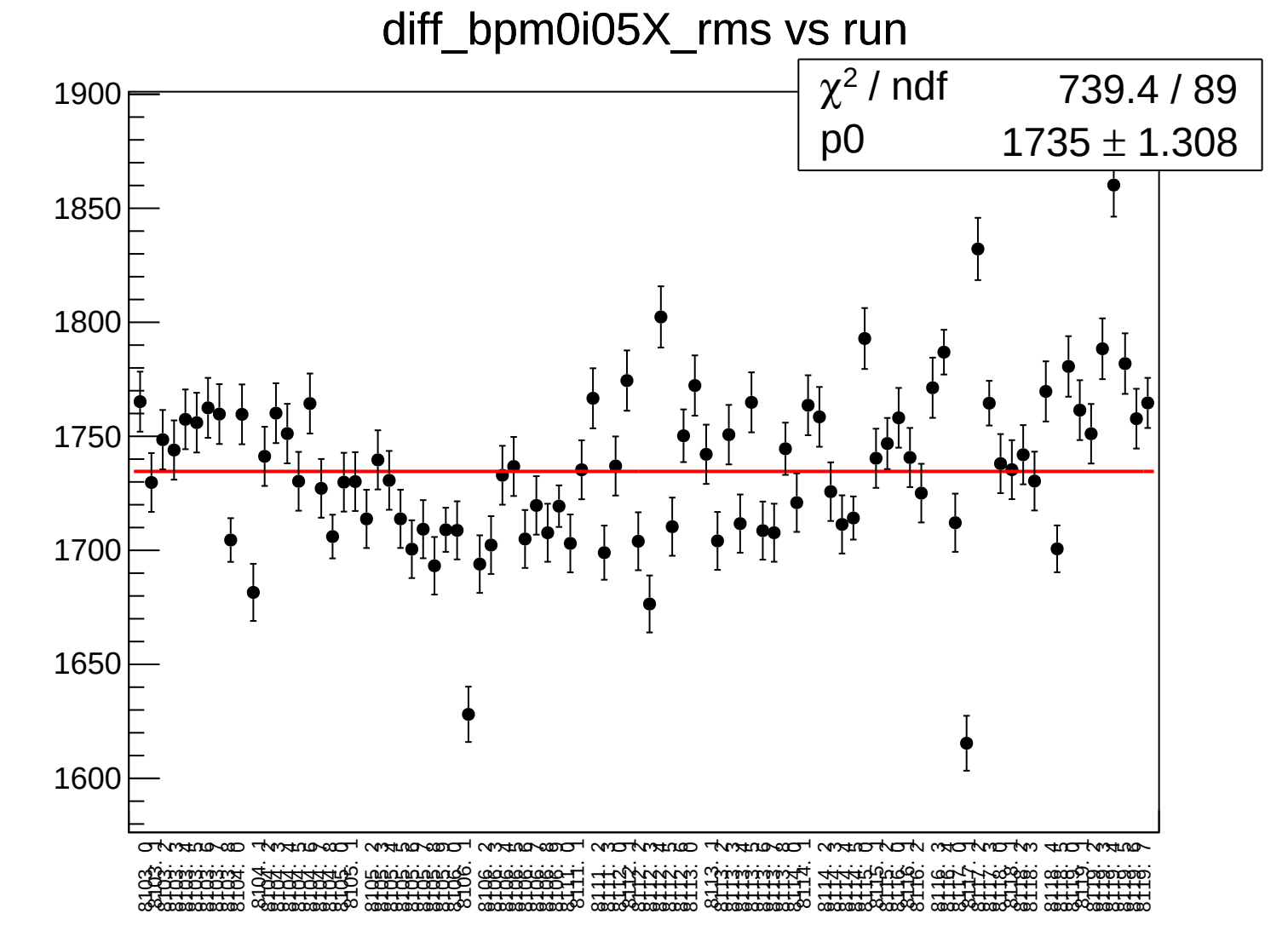

diff_bpm0i02aY_mean vs run
χ² / ndf 90.81 / 89
p0 61.7 ± 1.887
pull
Entries 90
Mean 6099
Std Dev 0

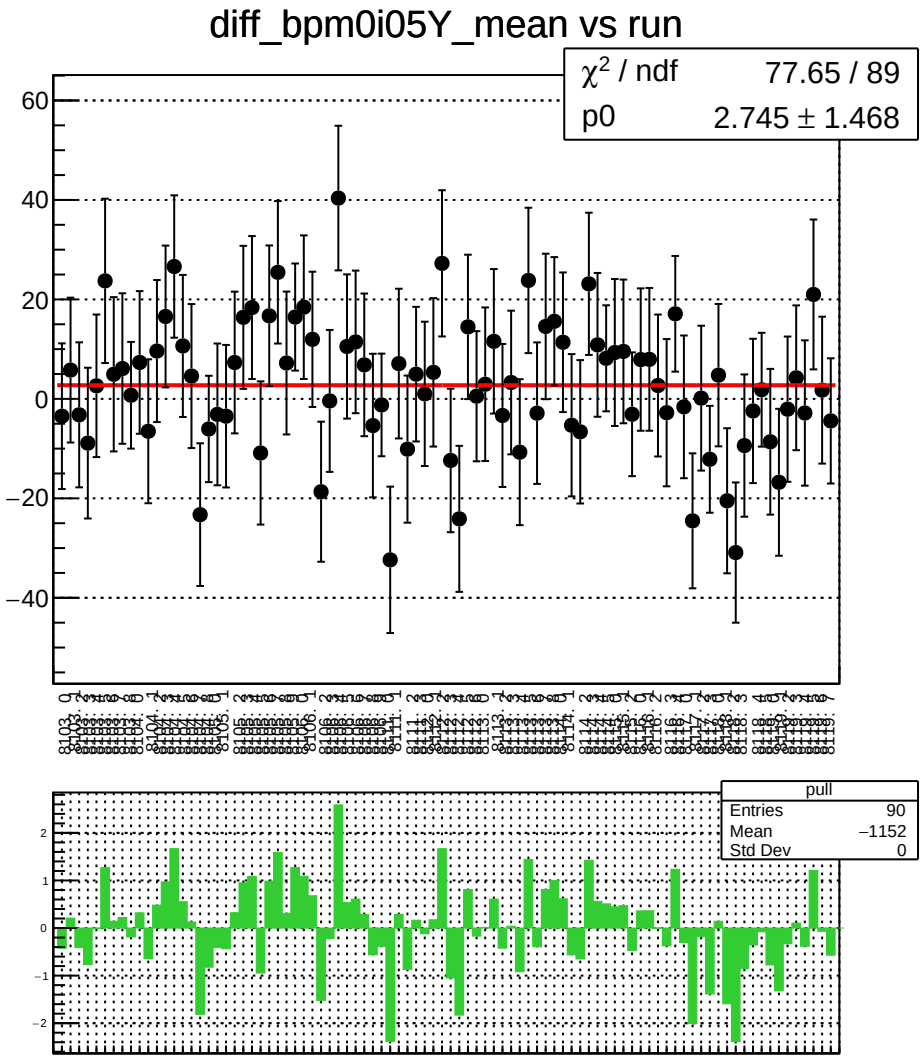

pull1D
Entries 90
Mean 0.0001643
Std Dev 1.004

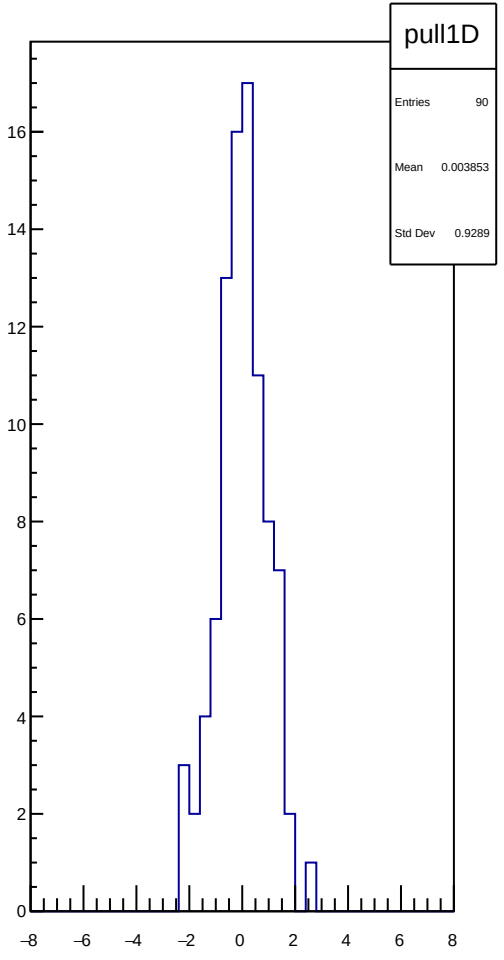

diff_bpm0i02aY_rms vs run
χ² / ndf 590.5 / 89
p0 1769 ± 1.334
1850
1800
1750
1700
1650
1600

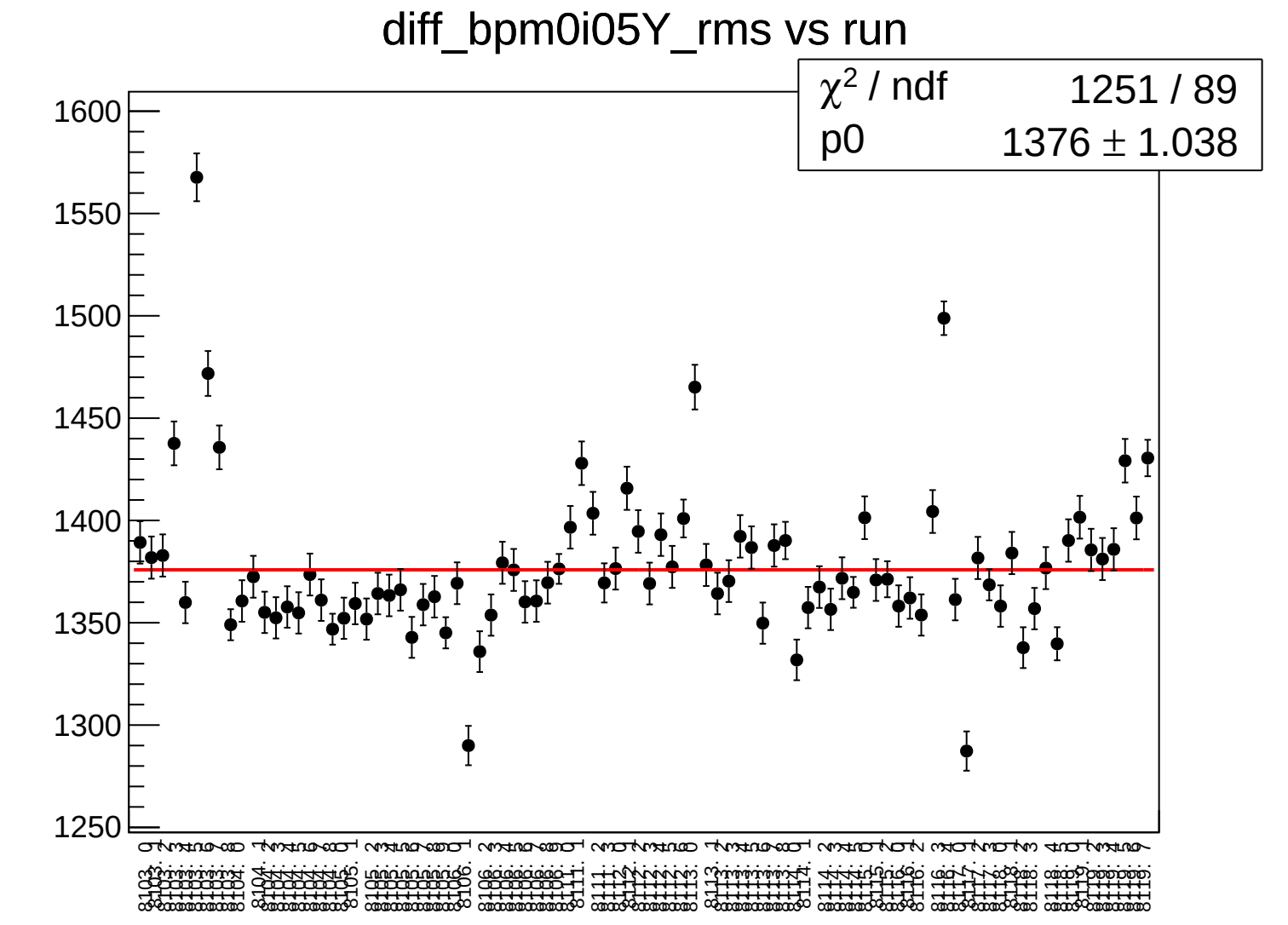

diff_bpm0i05X_mean vs run
χ² / ndf 145.8 / 89
p0 15.81 ± 1.85
pull
Entries 90
Mean −167.8
Std Dev 66.6

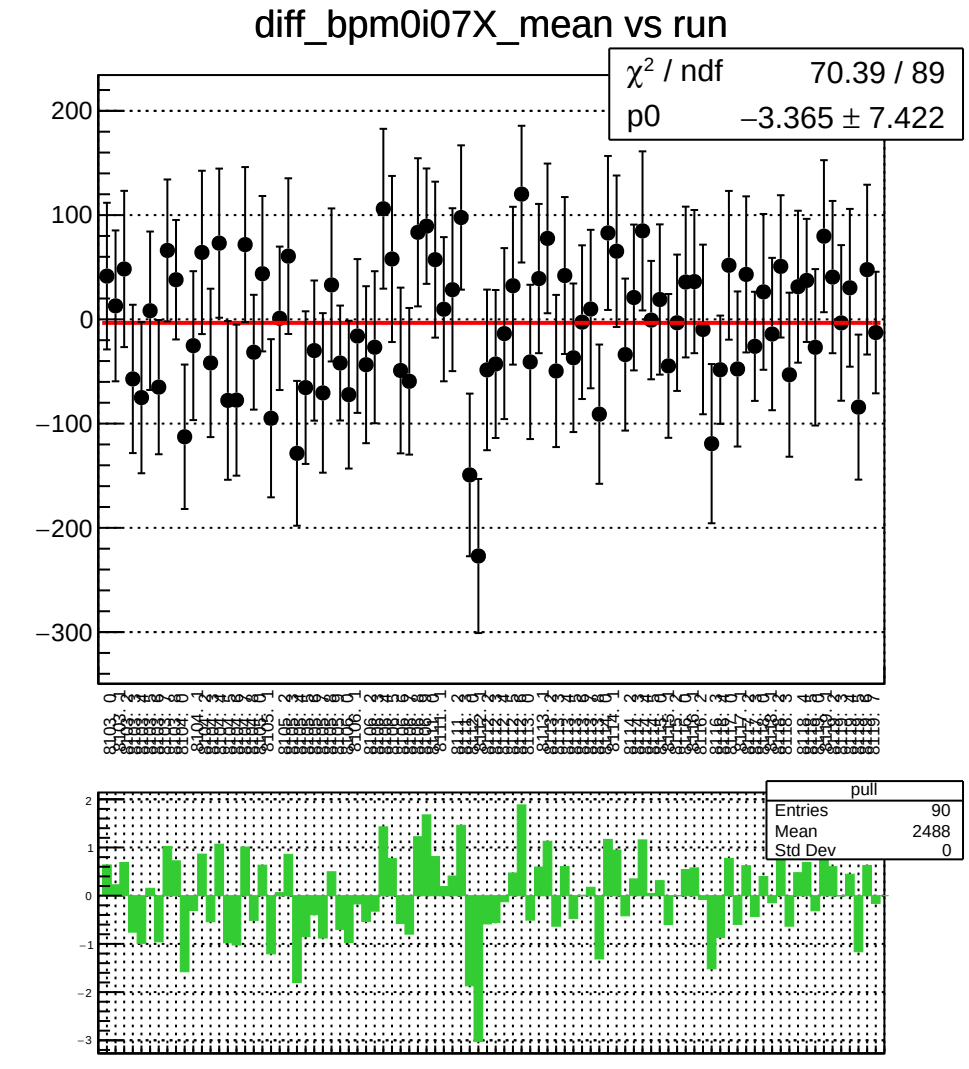

pull1D
Entries 90
Mean 0.003728
Std Dev 1.273

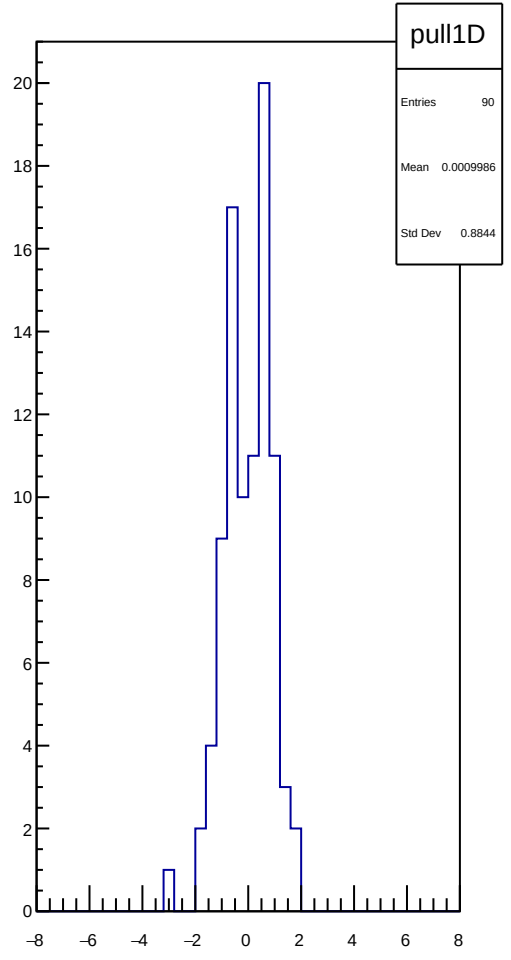

diff_bpm0i05X_rms vs run
χ² / ndf 739.4 / 89
p0 1735 ± 1.308
1900
1850
1800
1750
1700
1650
1600

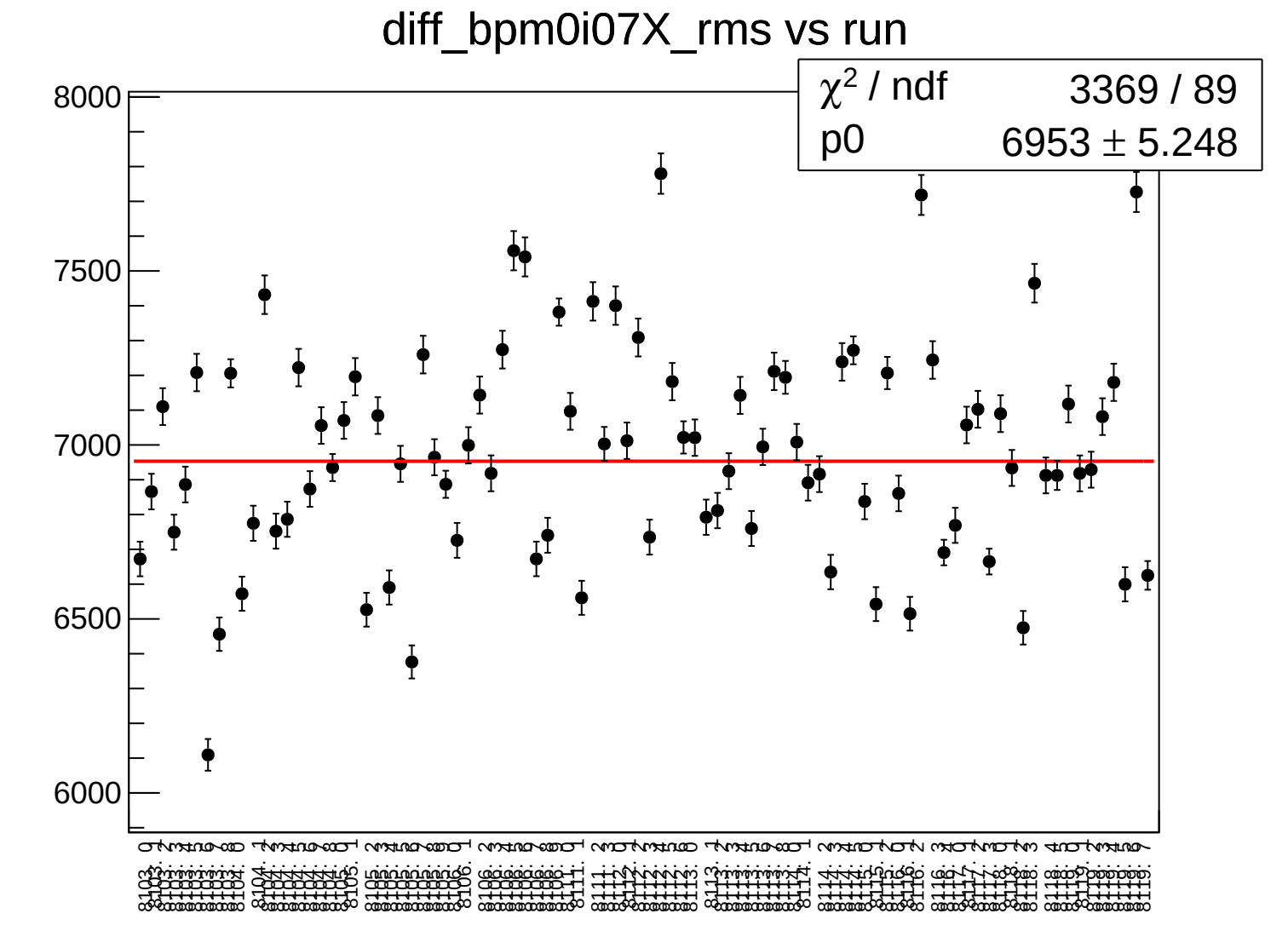

diff_bpm0i05Y_mean vs run
χ² / ndf 77.65 / 89
p0 2.745 ± 1.468
pull
Entries 90
Mean −1152
Std Dev 0

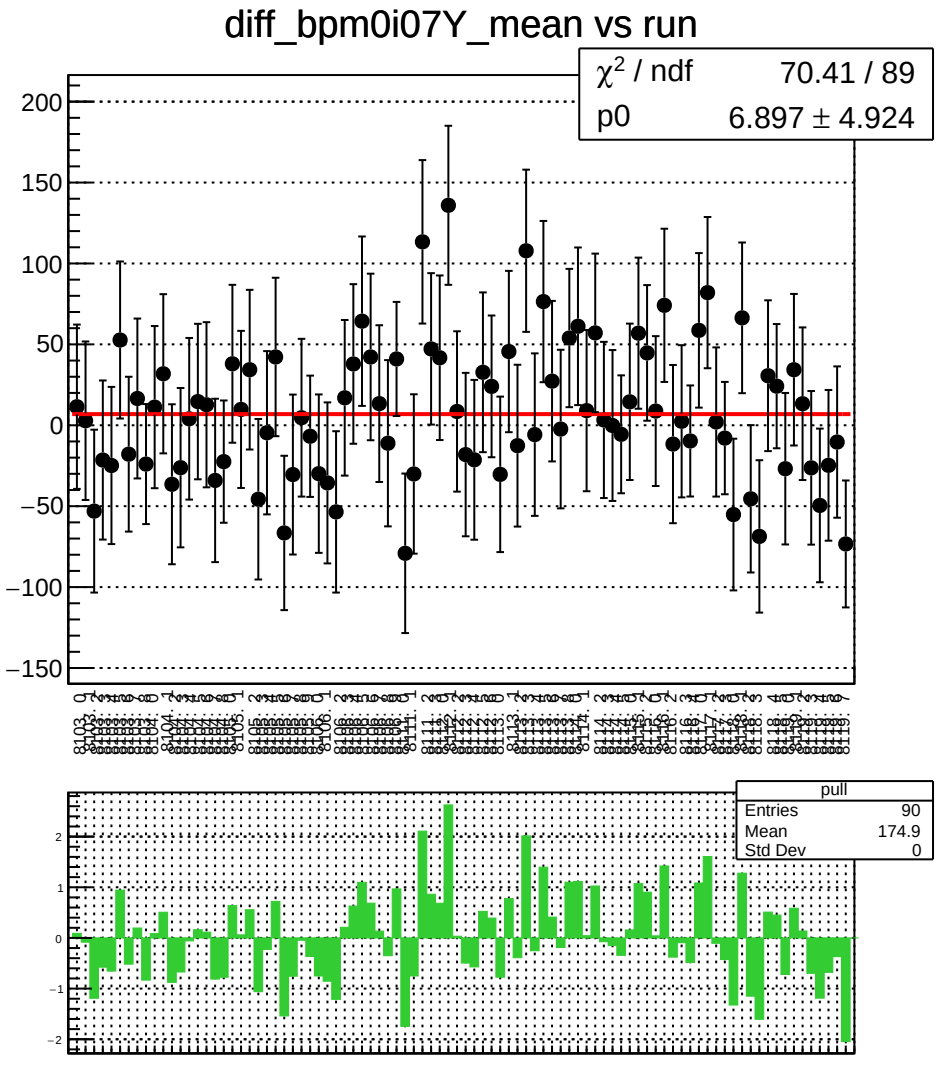

pull1D
Entries 90
Mean 0.003853
Std Dev 0.9289

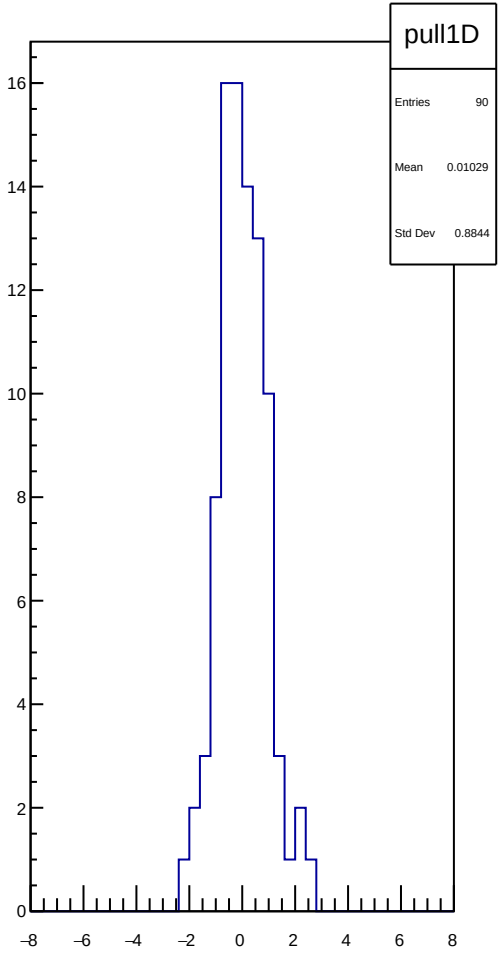

diff_bpm0i05Y_rms vs run
χ² / ndf 1251 / 89
p0 1376 ± 1.038
1600
1550
1500
1450
1400
1350
1300
1250

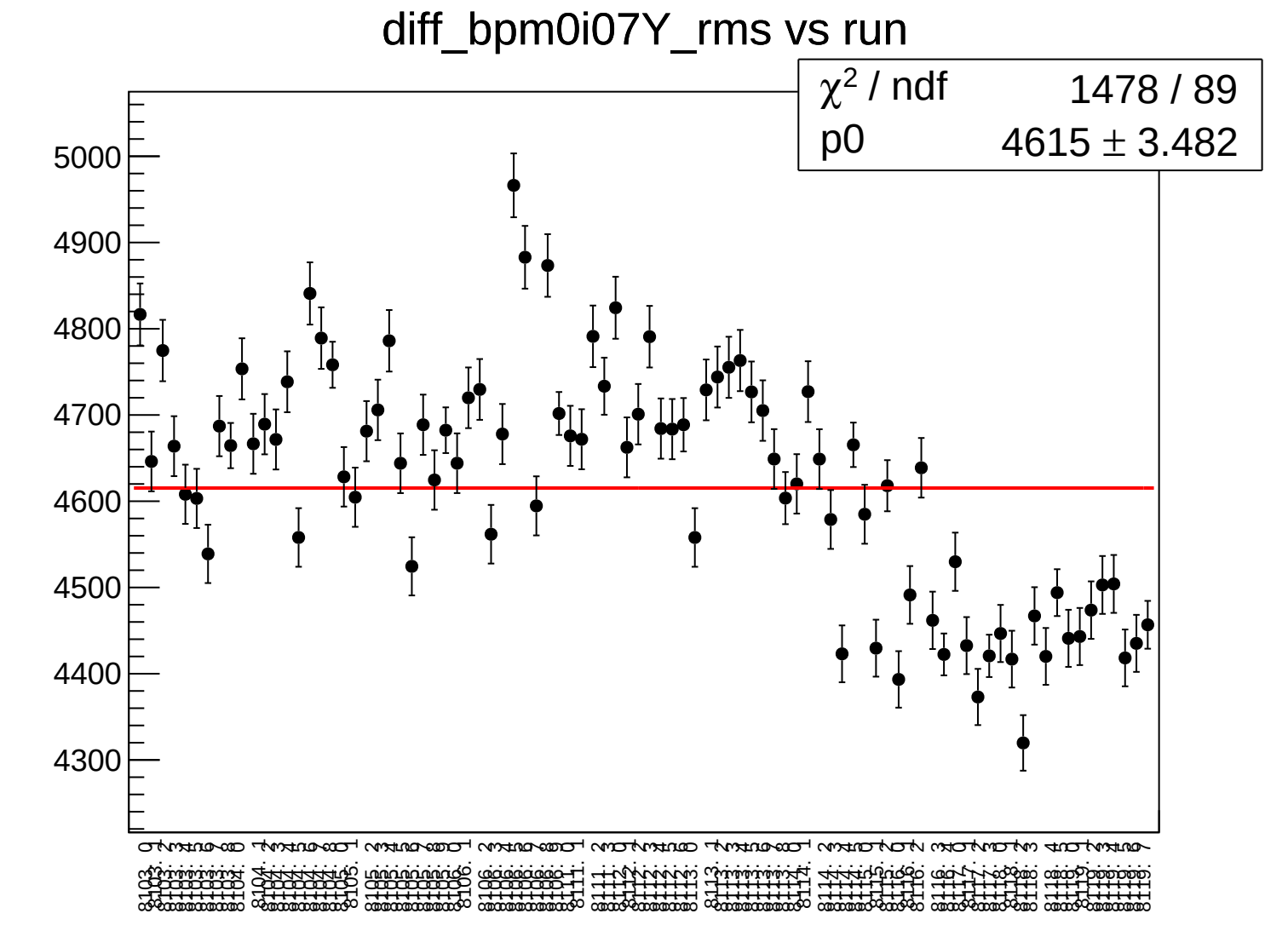

diff_bpm0i07X_mean vs run
χ² / ndf 70.39 / 89
p0 −3.365 ± 7.422
pull
Entries 90
Mean 2488
Std Dev 0

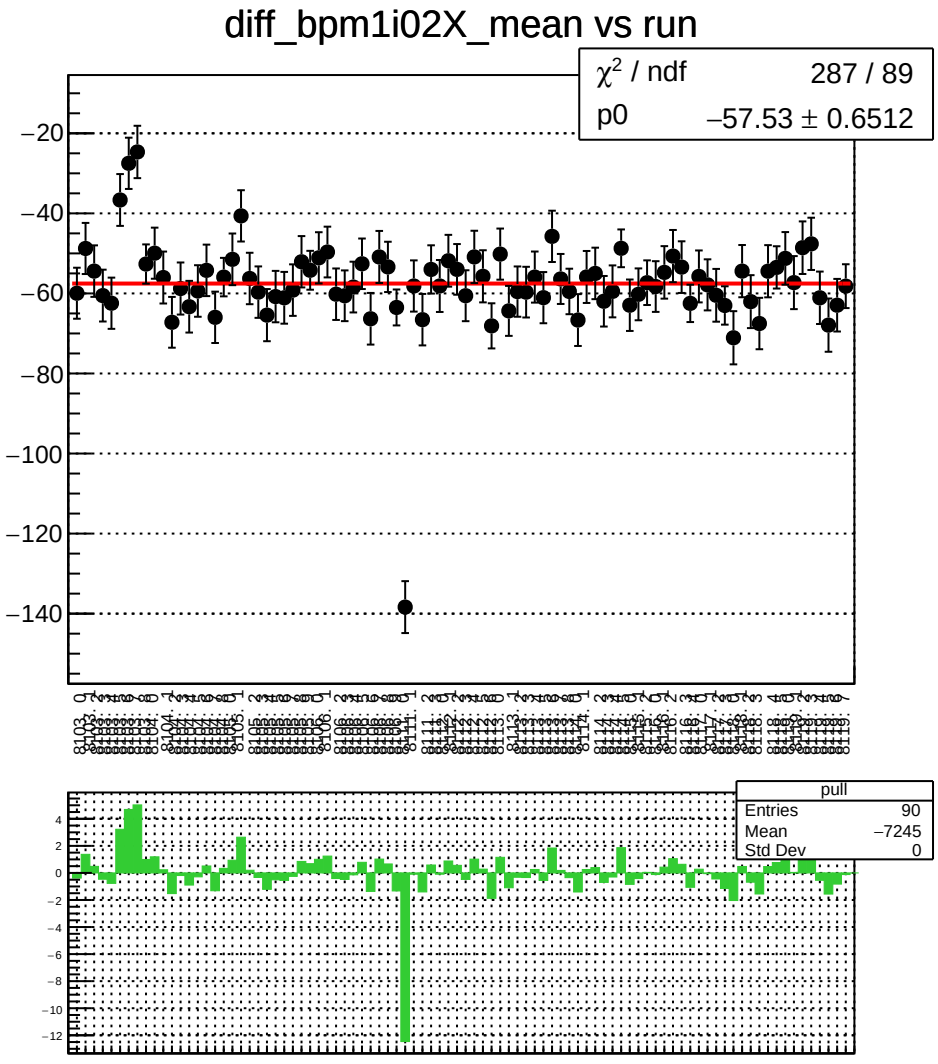

pull1D
Entries 90
Mean 0.0009986
Std Dev 0.8844

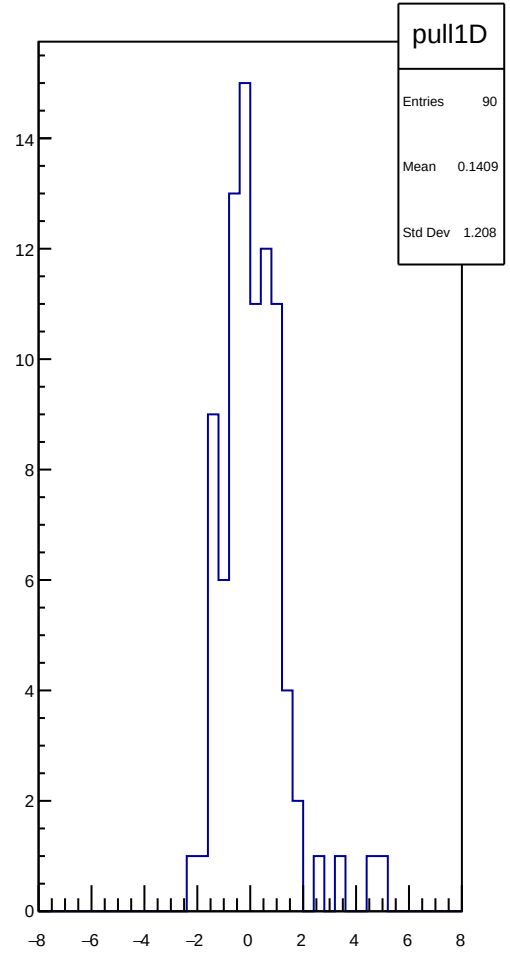

diff_bpm0i07X_rms vs run
χ² / ndf 3369 / 89
p0 6953 ± 5.248
8000
7500
7000
6500
6000

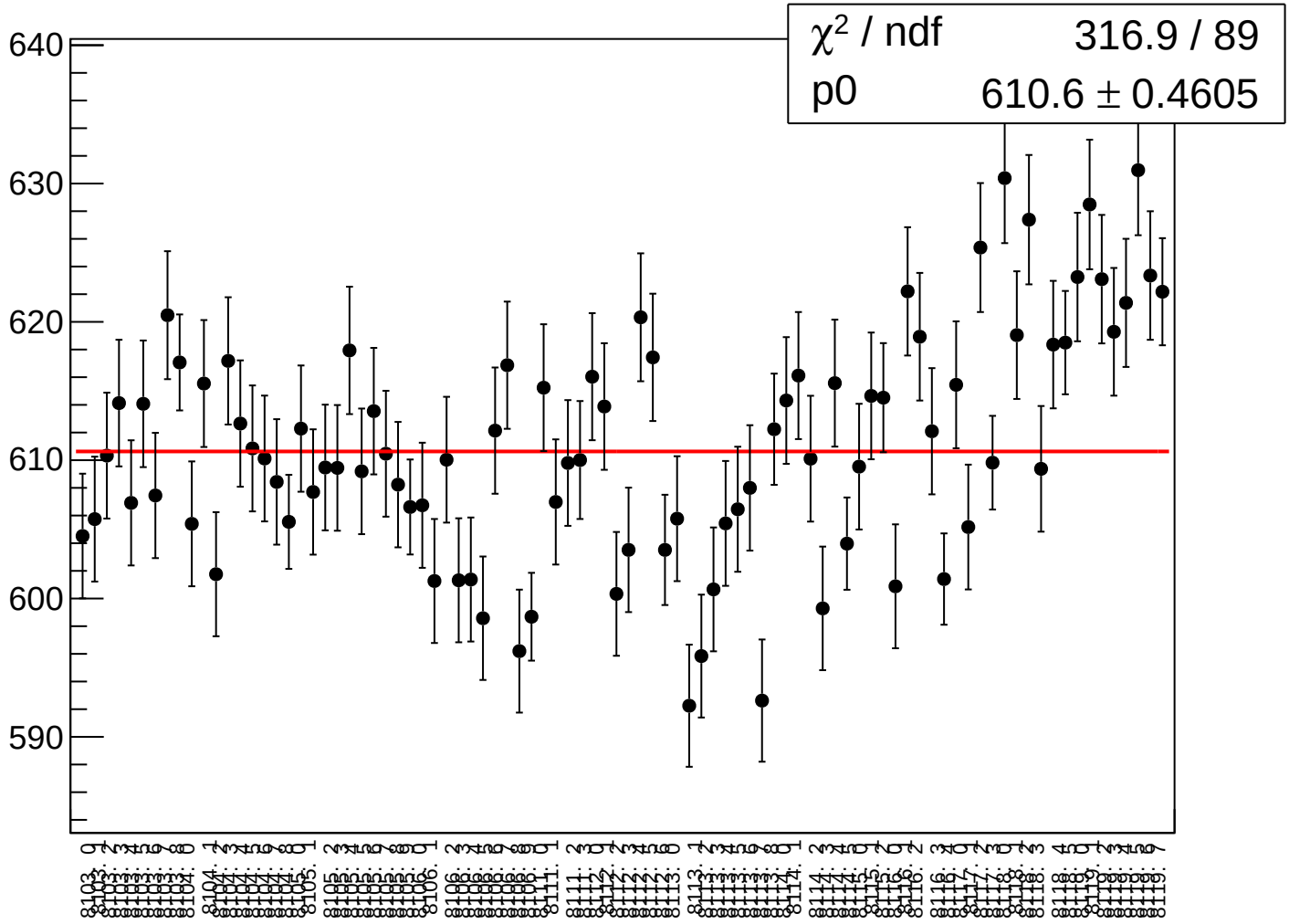

diff_bpm0i07Y_mean vs run
χ^2 / ndf 70.41 / 89
p0 6.897 ± 4.924
pull
Entries 90
Mean 174.9
Std Dev 0

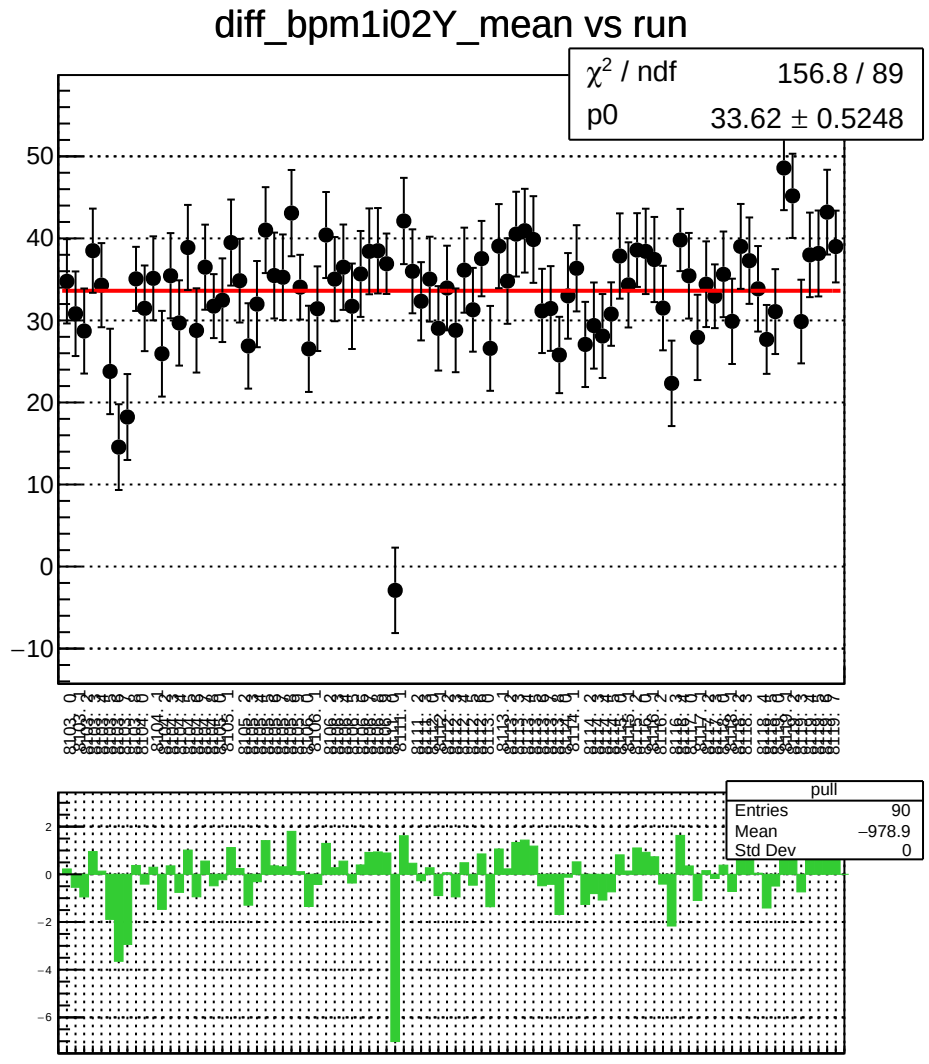

pull1D
Entries 90
Mean 0.01029
Std Dev 0.8844

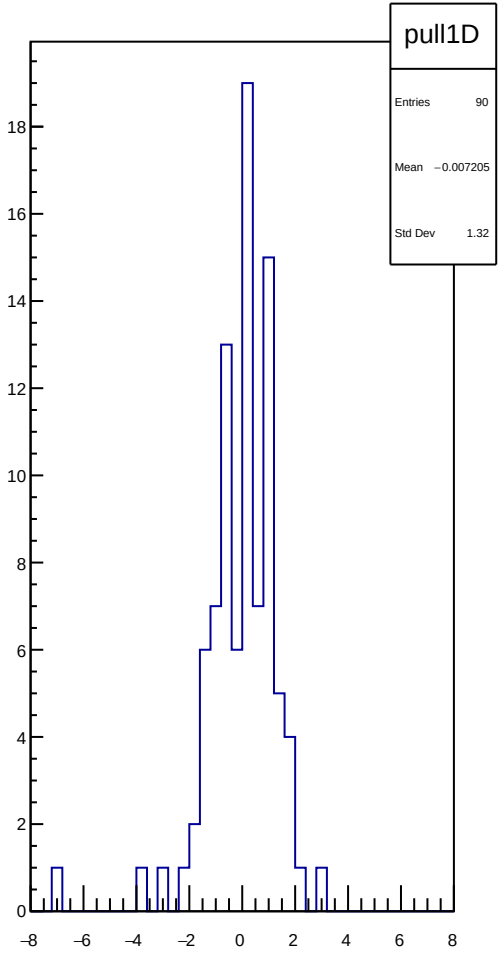

diff_bpm0i07Y_rms vs run
χ² / ndf 1478 / 89
p0 4615 ± 3.482
5000
4900
4800
4700
4600
4500
4400
4300

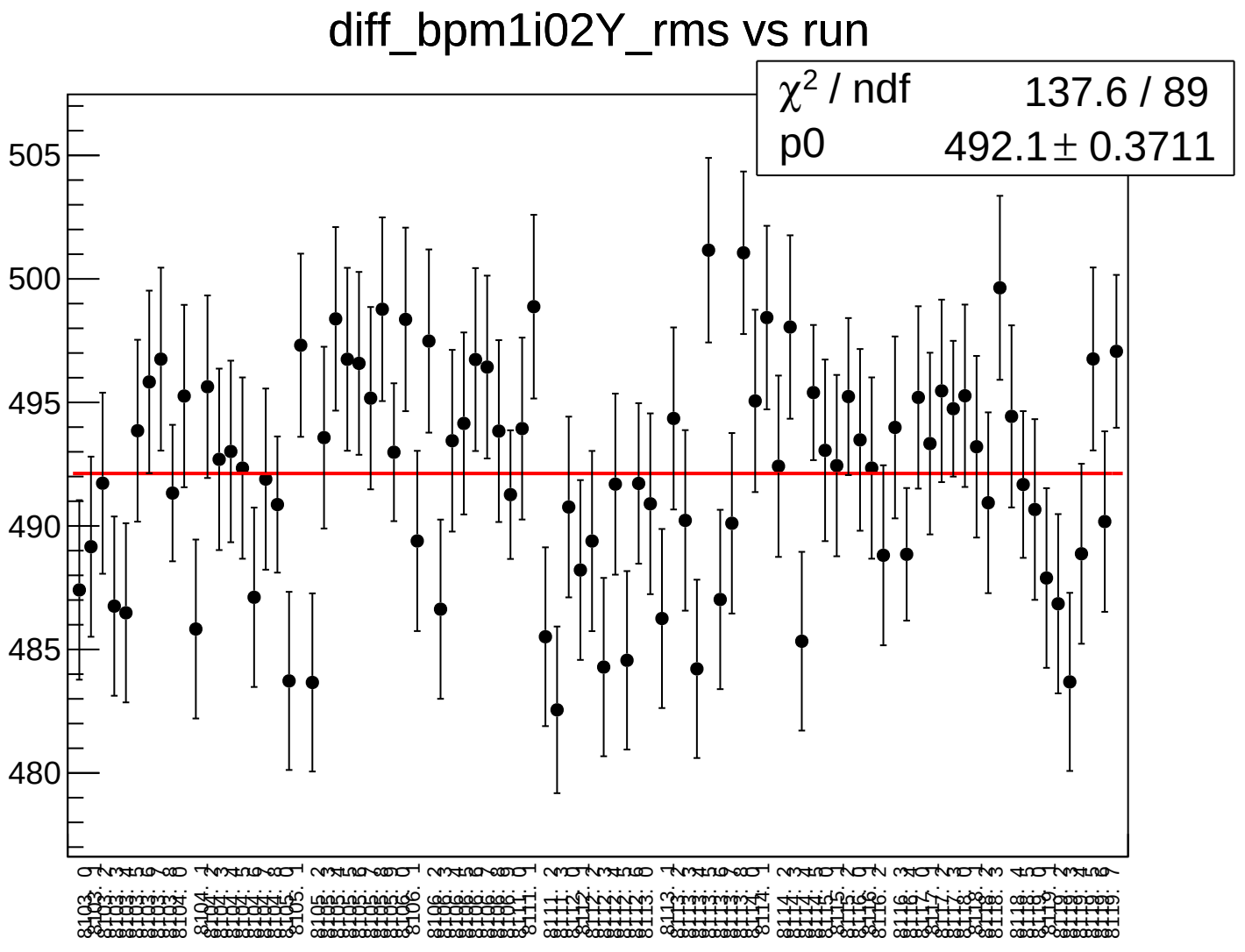

diff_bpm1i02X_mean vs run
χ² / ndf 287 / 89
p0 −57.53 ± 0.6512
pull
Entries 90
Mean −7245
Std Dev 0

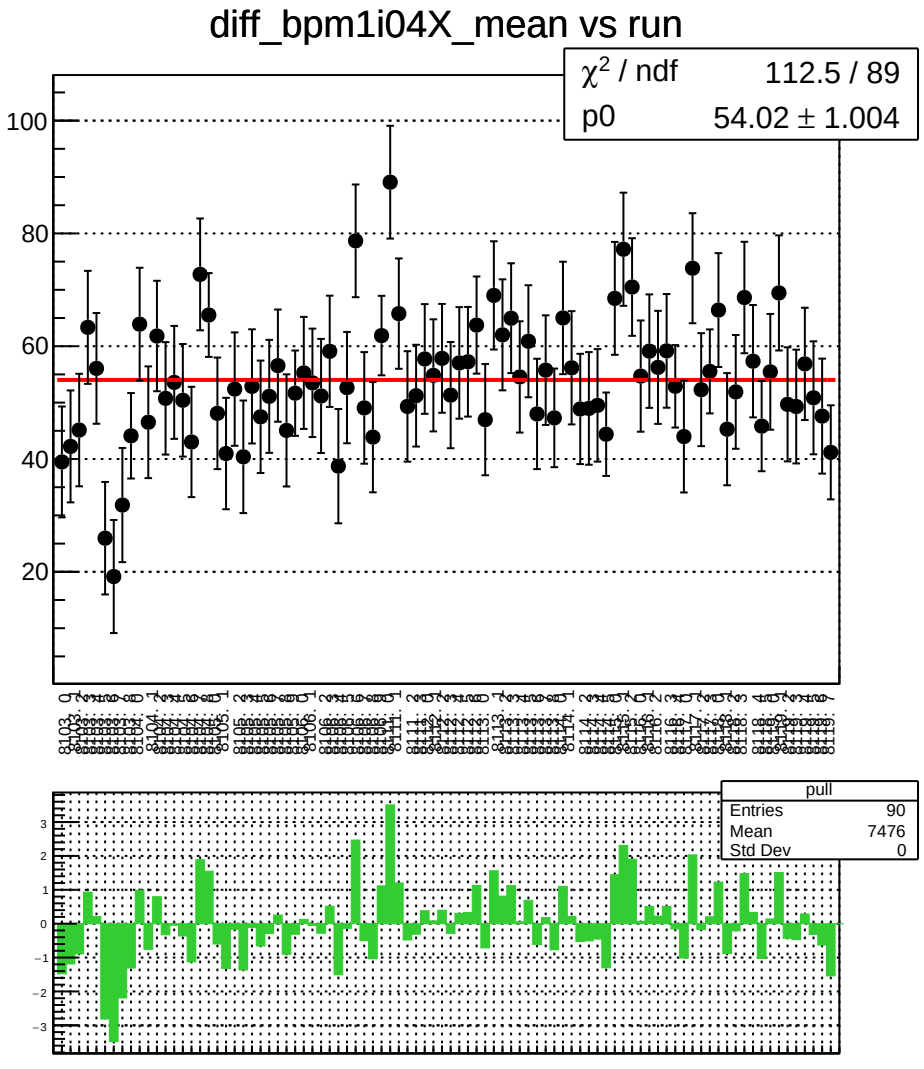

pull1D
Entries 90
Mean 0.1409
Std Dev 1.208

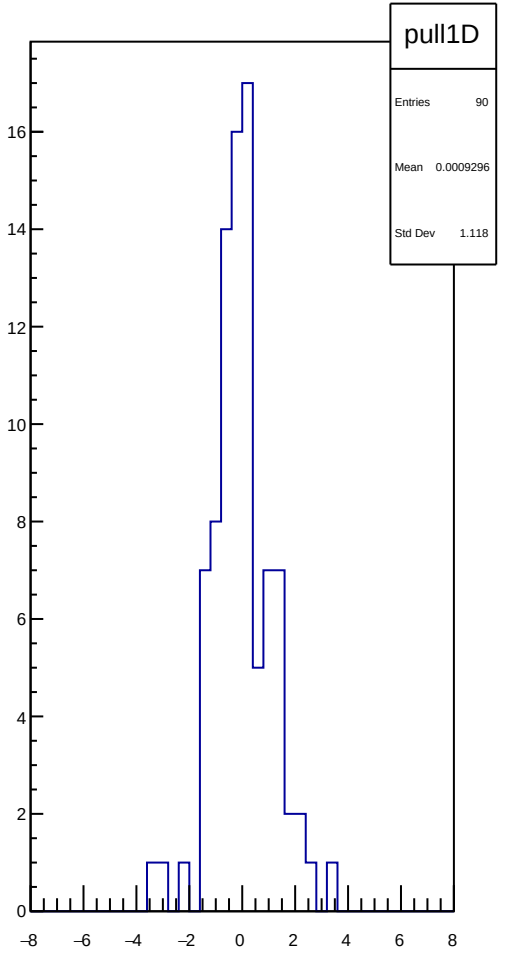

diff_bpm1i02X_rms vs run
χ² / ndf 316.9 / 89
p0 610.6 ± 0.4605
640
630
620
610
600
590

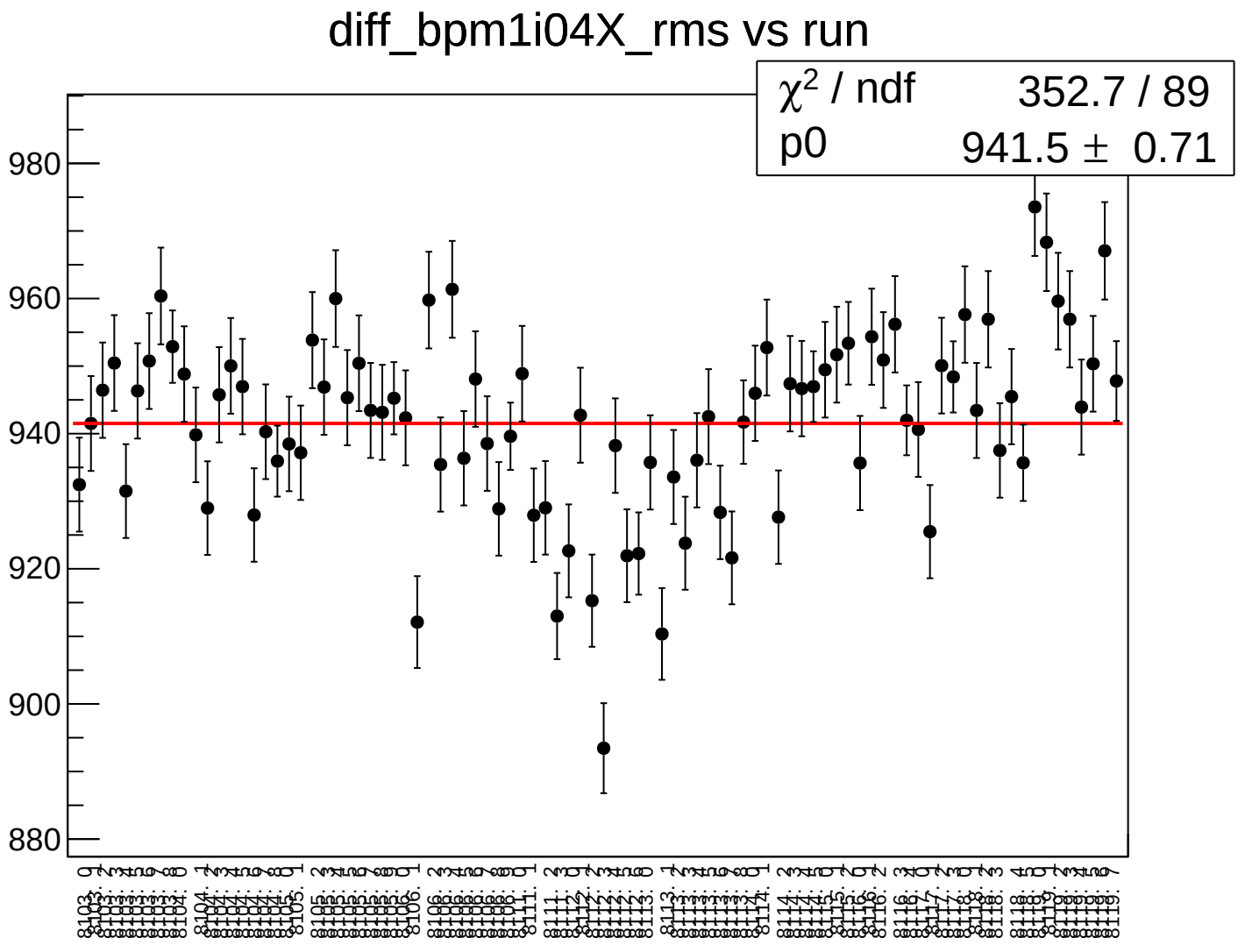

diff_bpm1i02Y_mean vs run
χ² / ndf 156.8 / 89
p0 33.62 ± 0.5248
pull
Entries 90
Mean −978.9
Std Dev 0

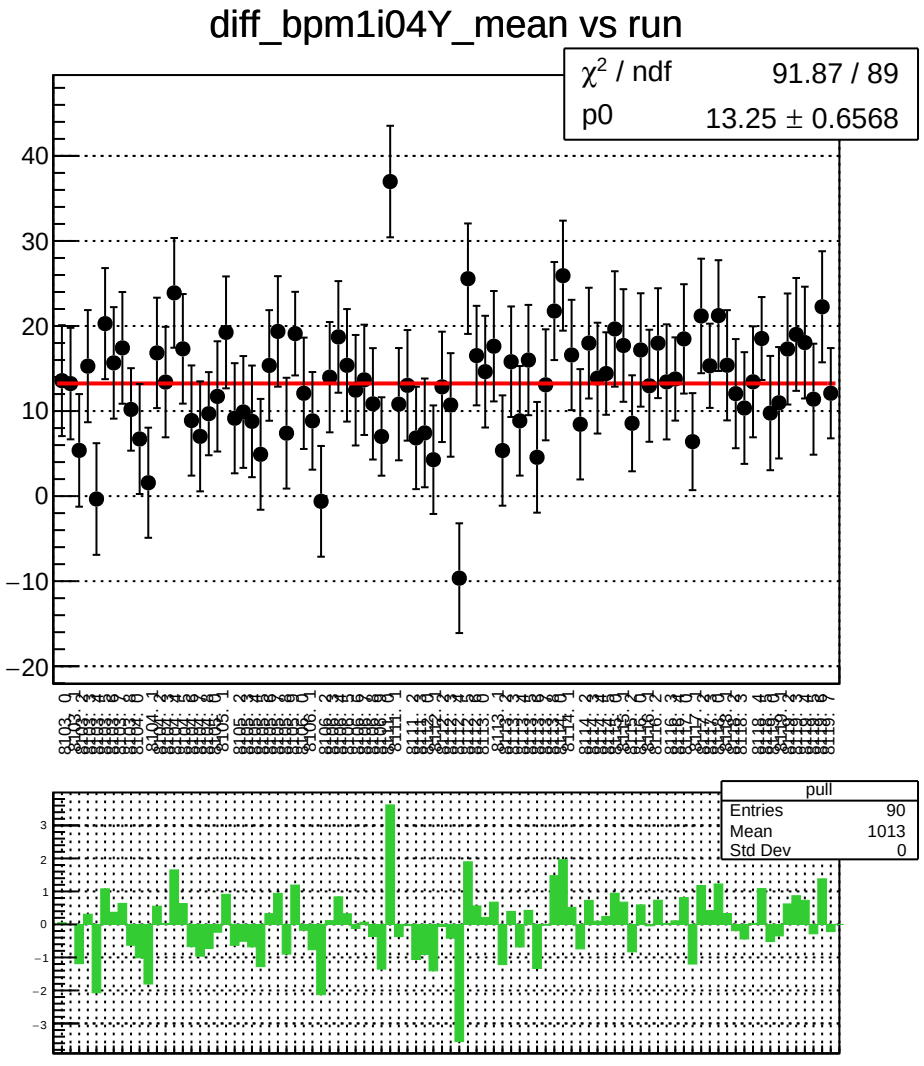

pull1D
Entries 90
Mean −0.007205
Std Dev 1.32

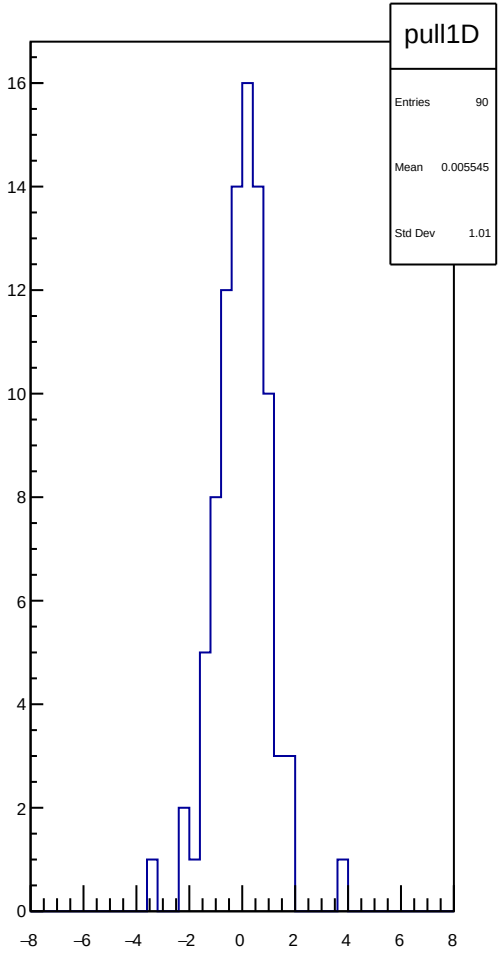

diff_bpm1i02Y_rms vs run
χ² / ndf 137.6 / 89
p0 492.1 ± 0.3711
505
500
495
490
485
480

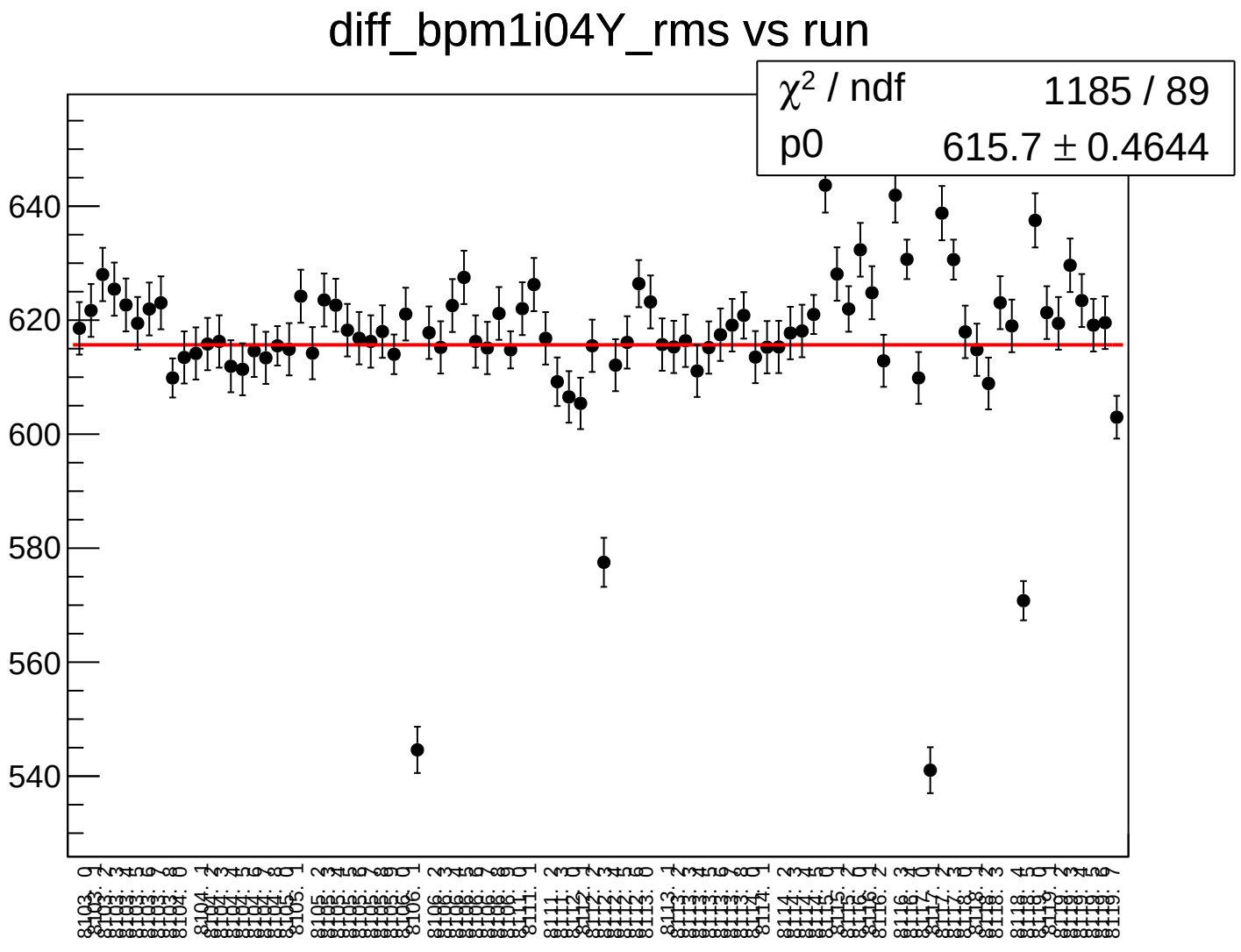

diff_bpm1i04X_mean vs run
χ² / ndf 112.5 / 89
p0 54.02 ± 1.004
pull
Entries 90
Mean 7476
Std Dev 0

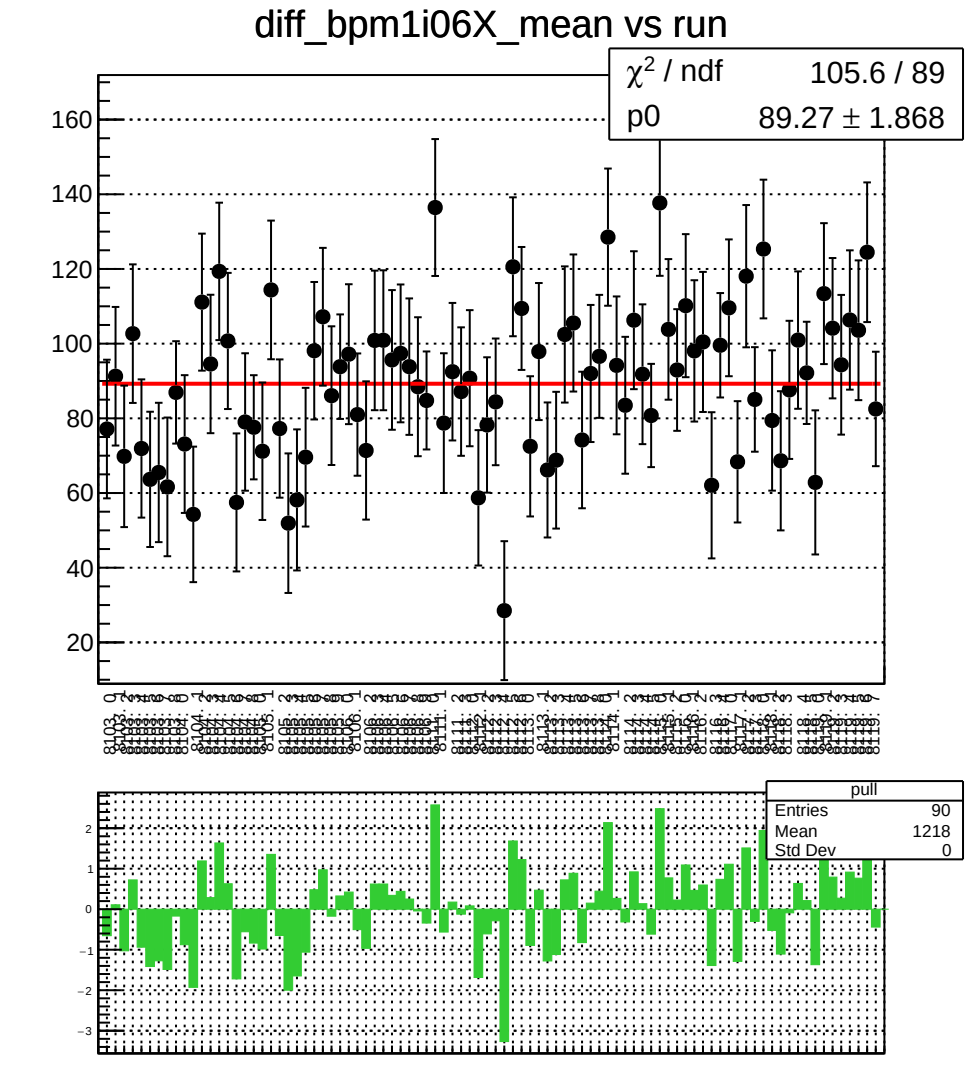

pull1D
Entries 90
Mean 0.0009296
Std Dev 1.118

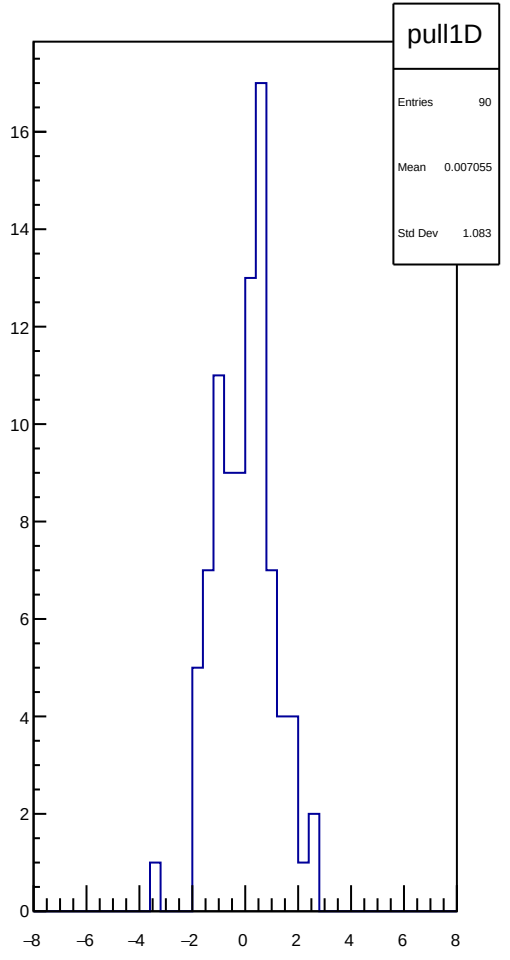

diff_bpm1i04X_rms vs run
χ² / ndf 352.7 / 89
p0 941.5 ± 0.71
980
960
940
920
900
880

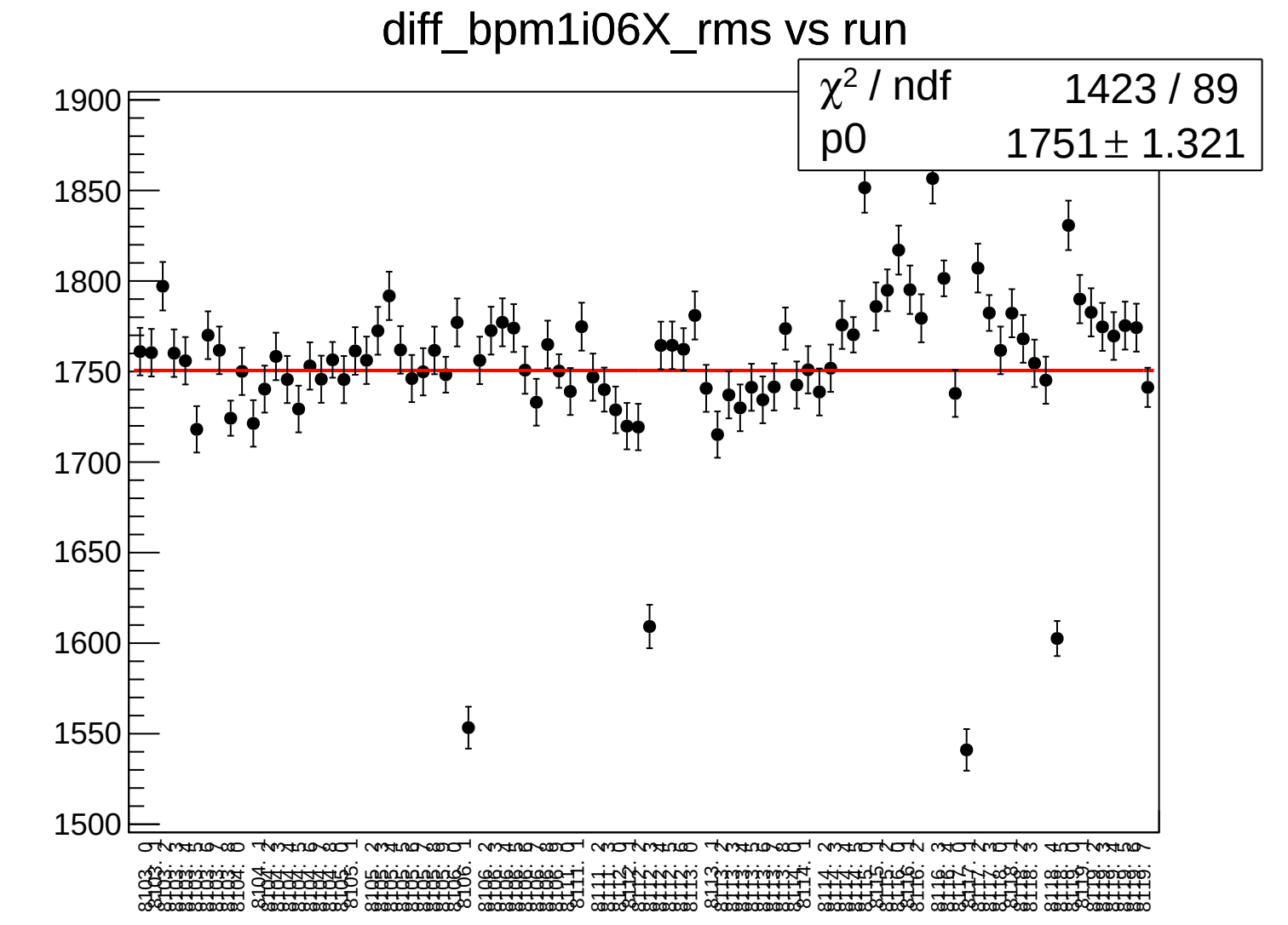

diff_bpm1i04Y_mean vs run
χ^2 / ndf 91.87 / 89
p0 13.25 ± 0.6568
pull
Entries 90
Mean 1013
Std Dev 0

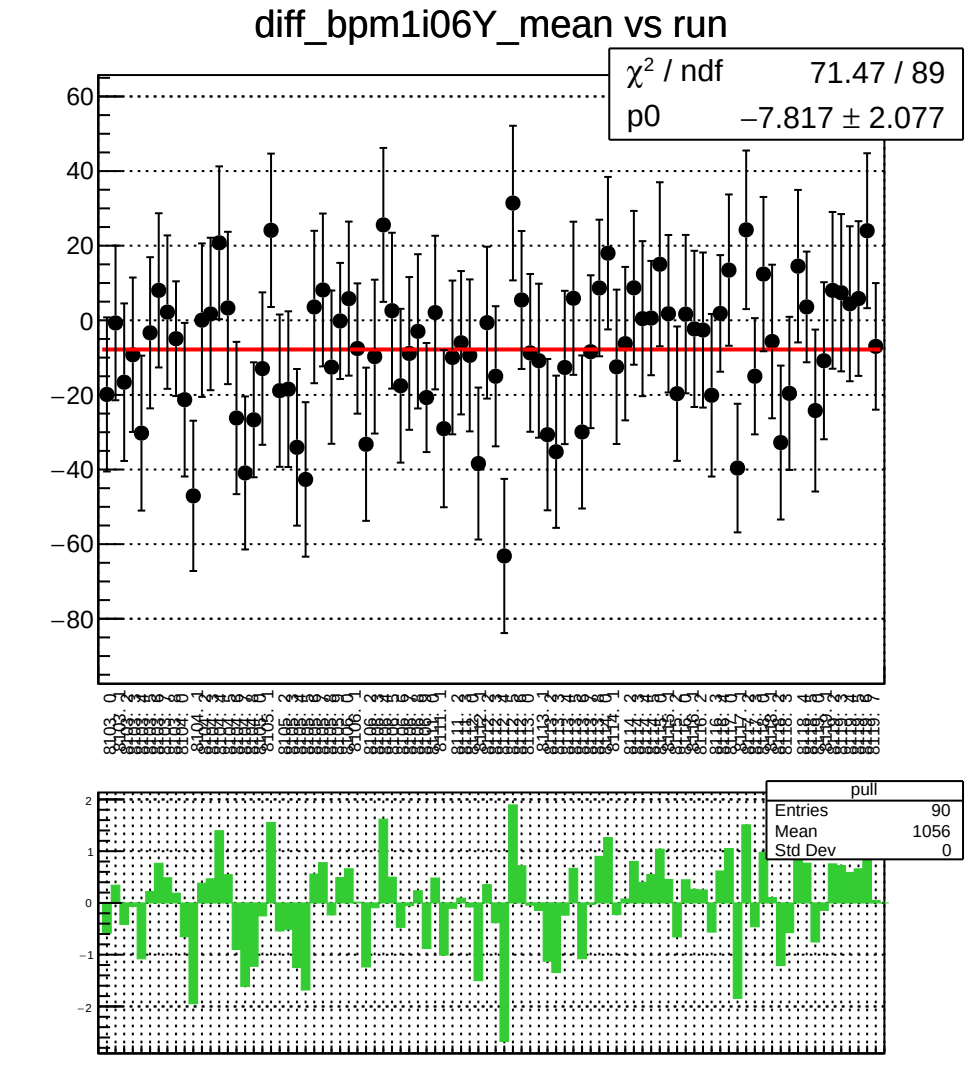

pull1D
Entries 90
Mean 0.005545
Std Dev 1.01

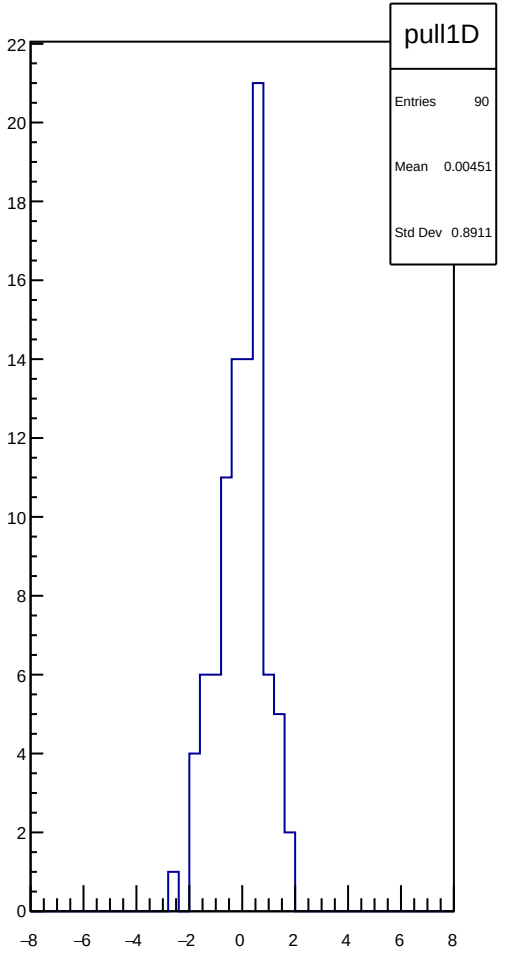

diff_bpm1i04Y_rms vs run
χ² / ndf 1185 / 89
p0 615.7 ± 0.4644
640
620
600
580
560
540

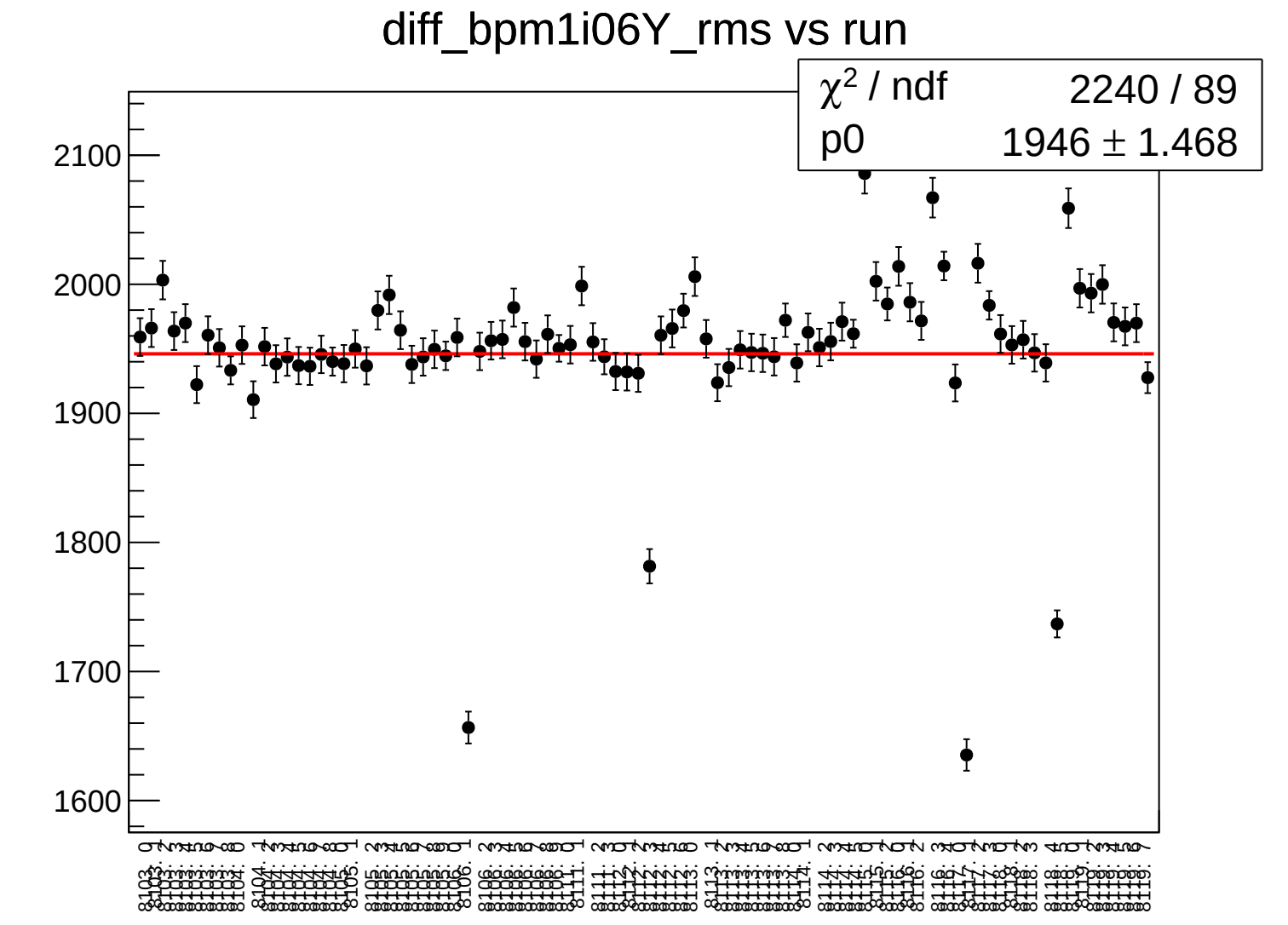

diff_bpm1i06X_mean vs run
χ² / ndf 105.6 / 89
p0 89.27 ± 1.868
pull
Entries 90
Mean 1218
Std Dev 0

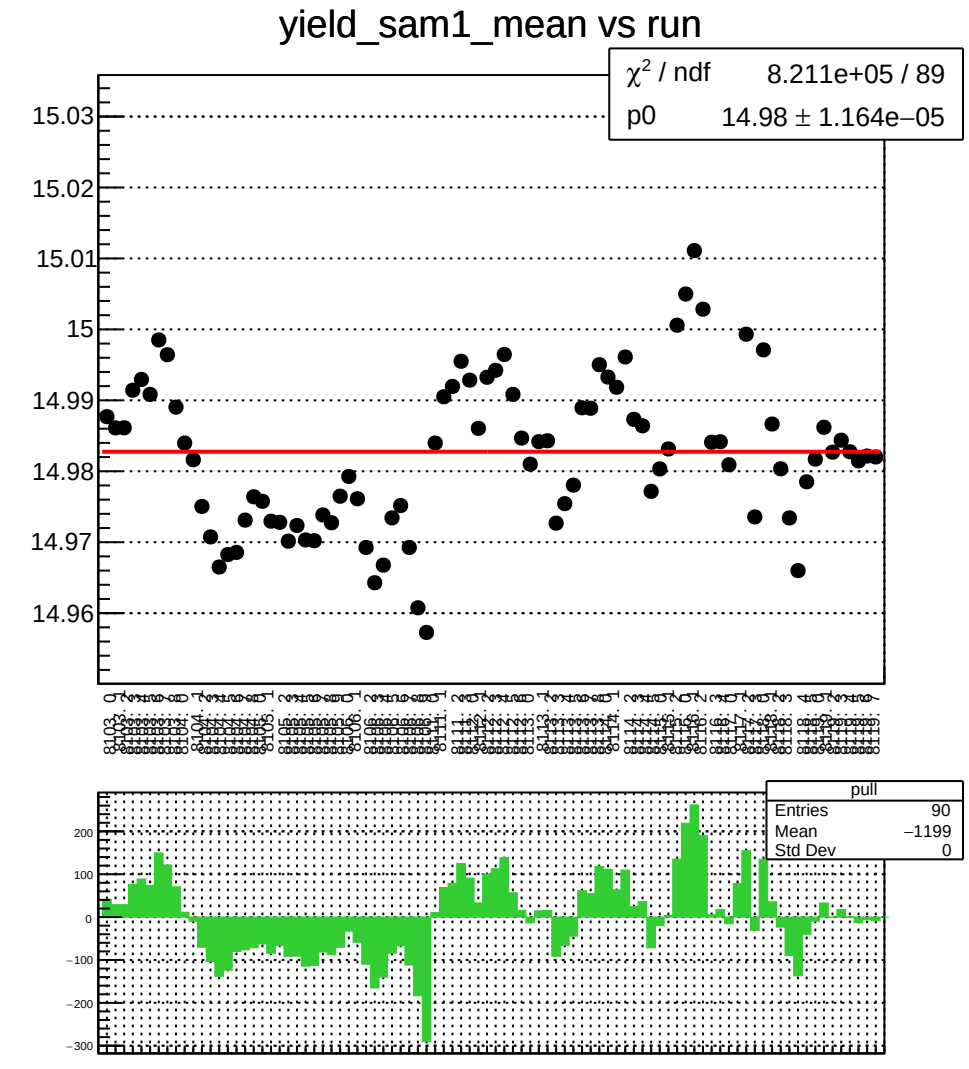

pull1D
Entries 90
Mean 0.007055
Std Dev 1.083

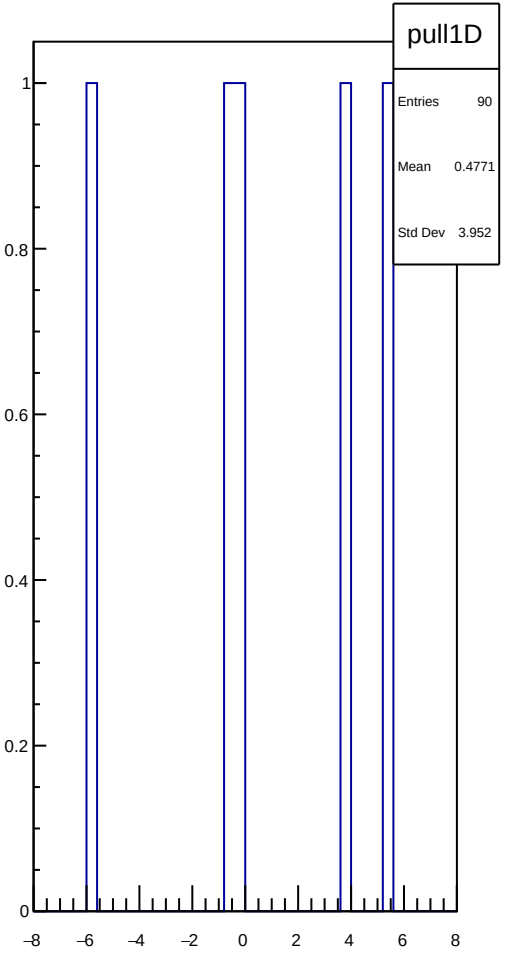

diff_bpm1i06X_rms vs run
χ² / ndf 1423 / 89
p0 1751 ± 1.321
1900
1850
1800
1750
1700
1650
1600
1550
1500

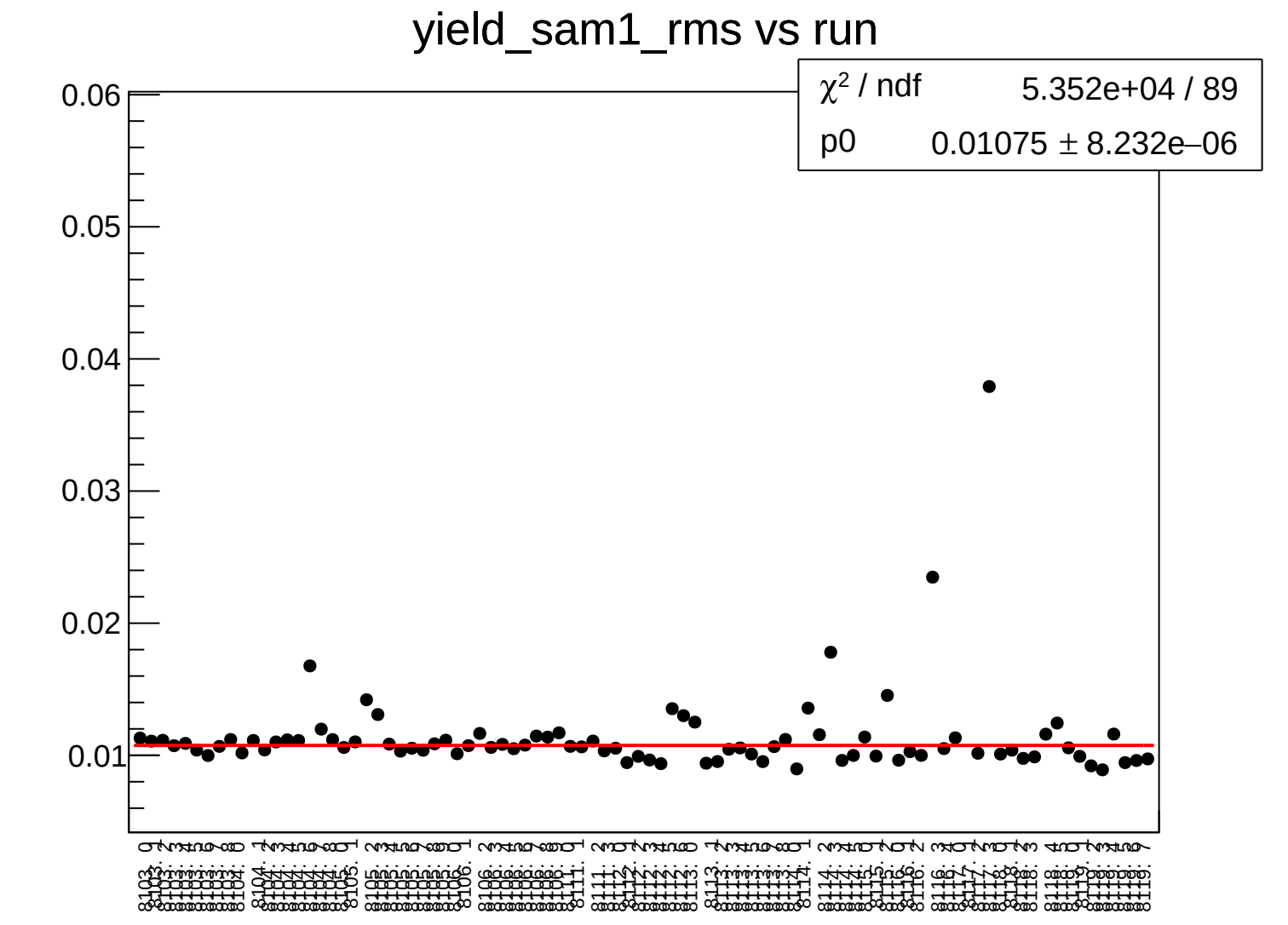

diff_bpm1i06Y_mean vs run
χ² / ndf 71.47 / 89
p0 −7.817 ± 2.077
pull
Entries 90
Mean 1056
Std Dev 0

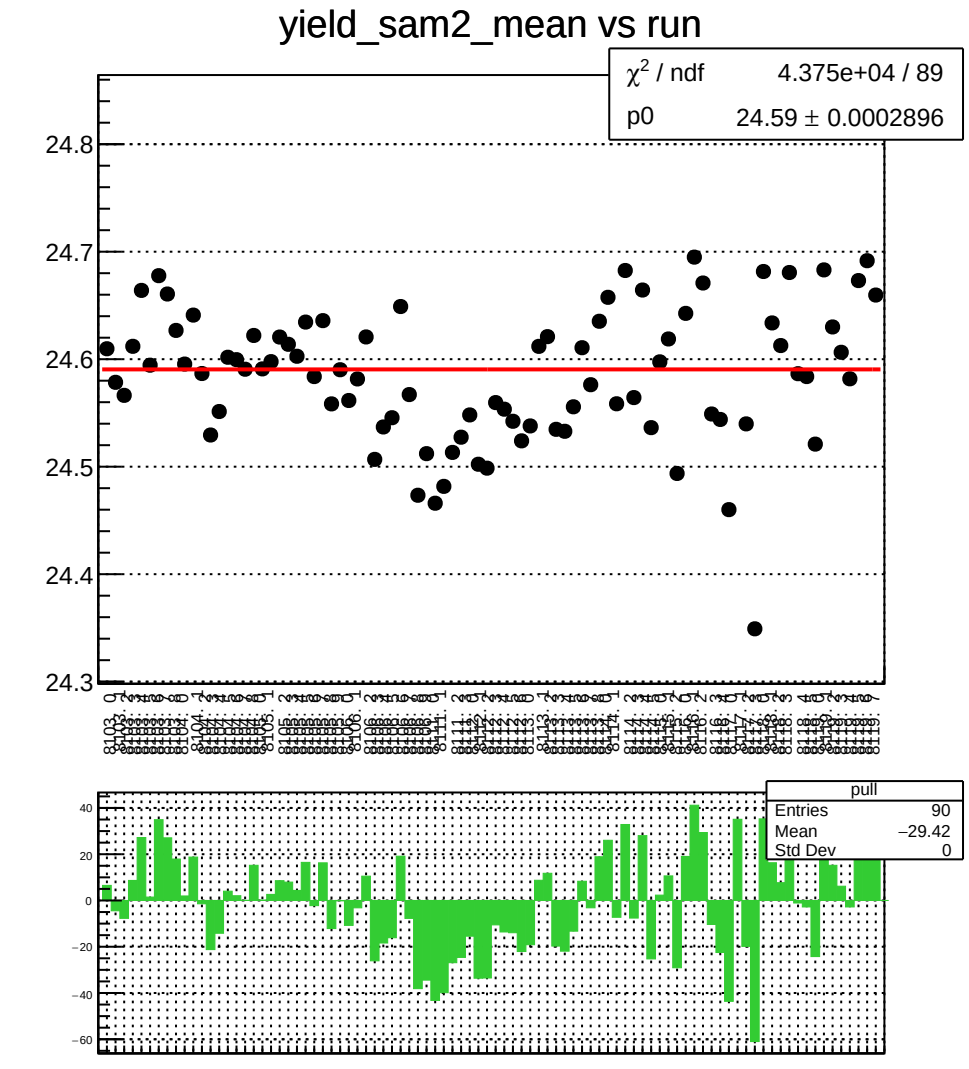

pull1D
Entries 90
Mean 0.00451
Std Dev 0.8911

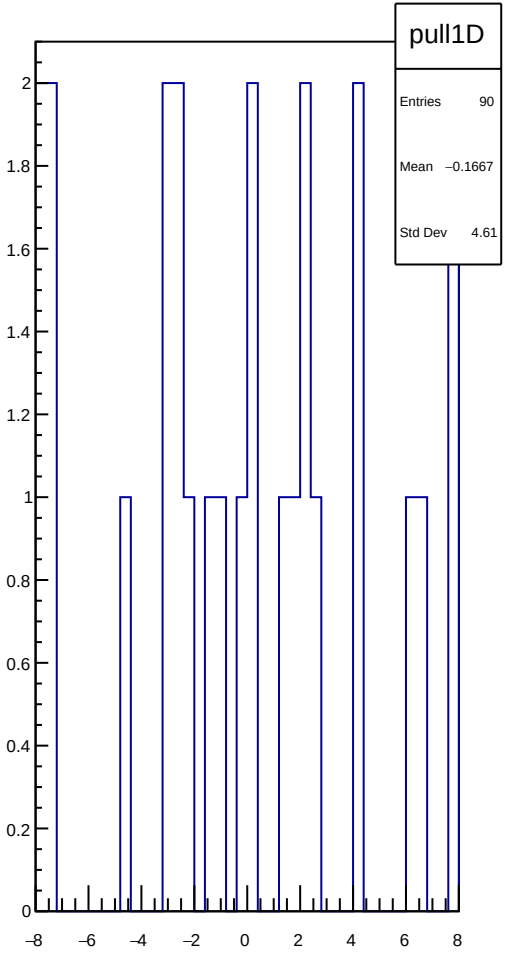

diff_bpm1i06Y_rms vs run
χ² / ndf 2240 / 89
p0 1946 ± 1.468
2100
2000
1900
1800
1700
1600

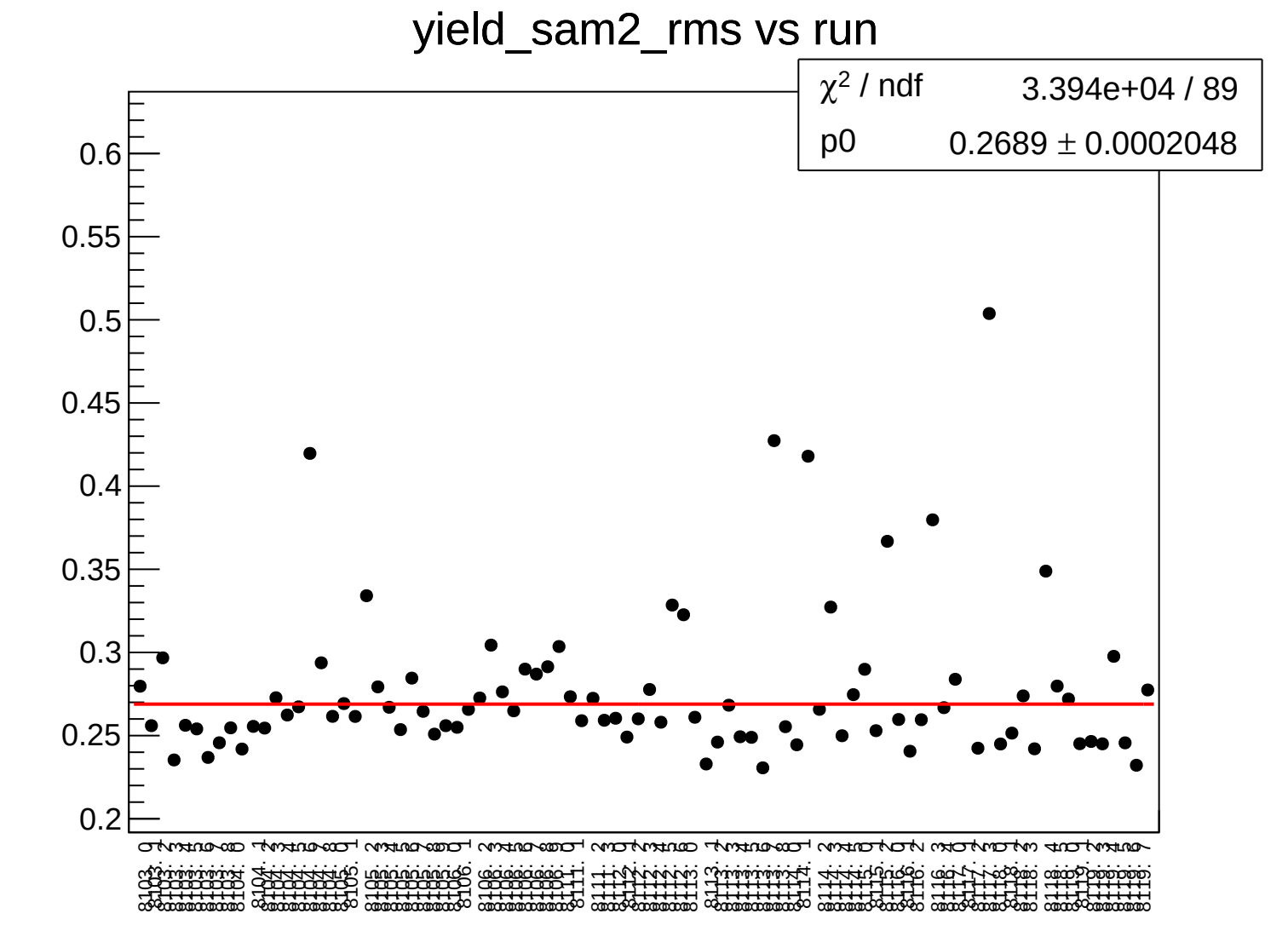

yield_sam1_mean vs run
χ² / ndf 8.211e+05 / 89
p0 14.98 ± 1.164e−05
15.03
15.02
15.01
15
14.99
14.98
14.97
14.96
pull
Entries 90
Mean −1199
Std Dev 0
200
100
0
−100
−200
−300

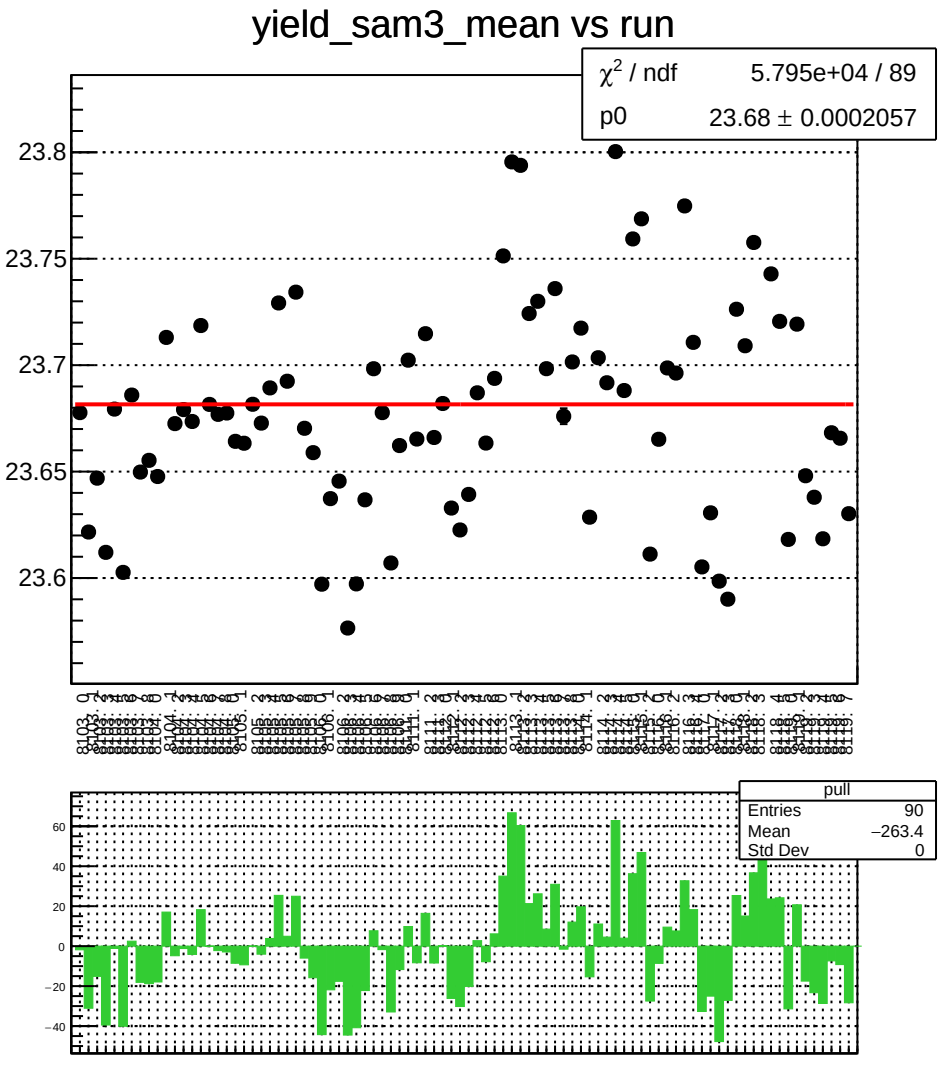

pull1D
Entries 90
Mean 0.4771
Std Dev 3.952
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

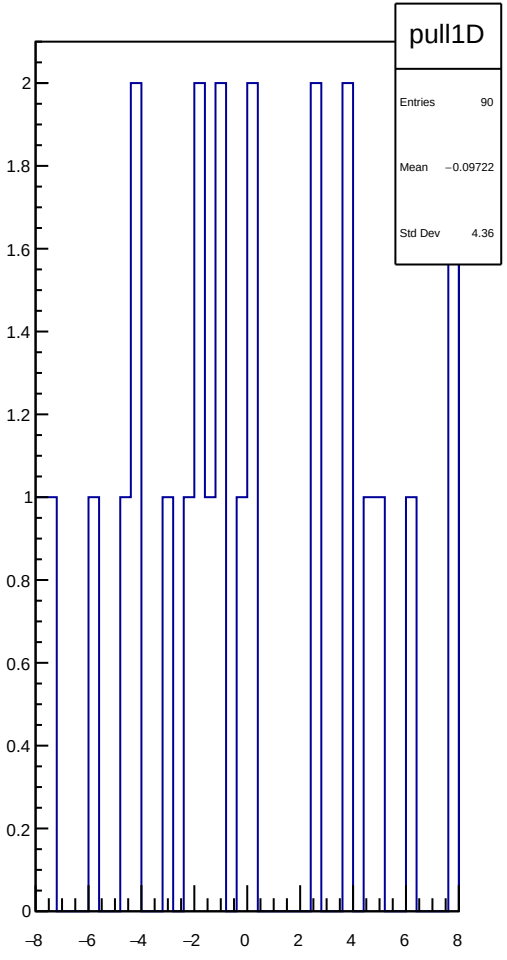

yield_sam1_rms vs run
χ² / ndf 5.352e+04 / 89
p0 0.01075 ± 8.232e–06
0.06
0.05
0.04
0.03
0.02
0.01

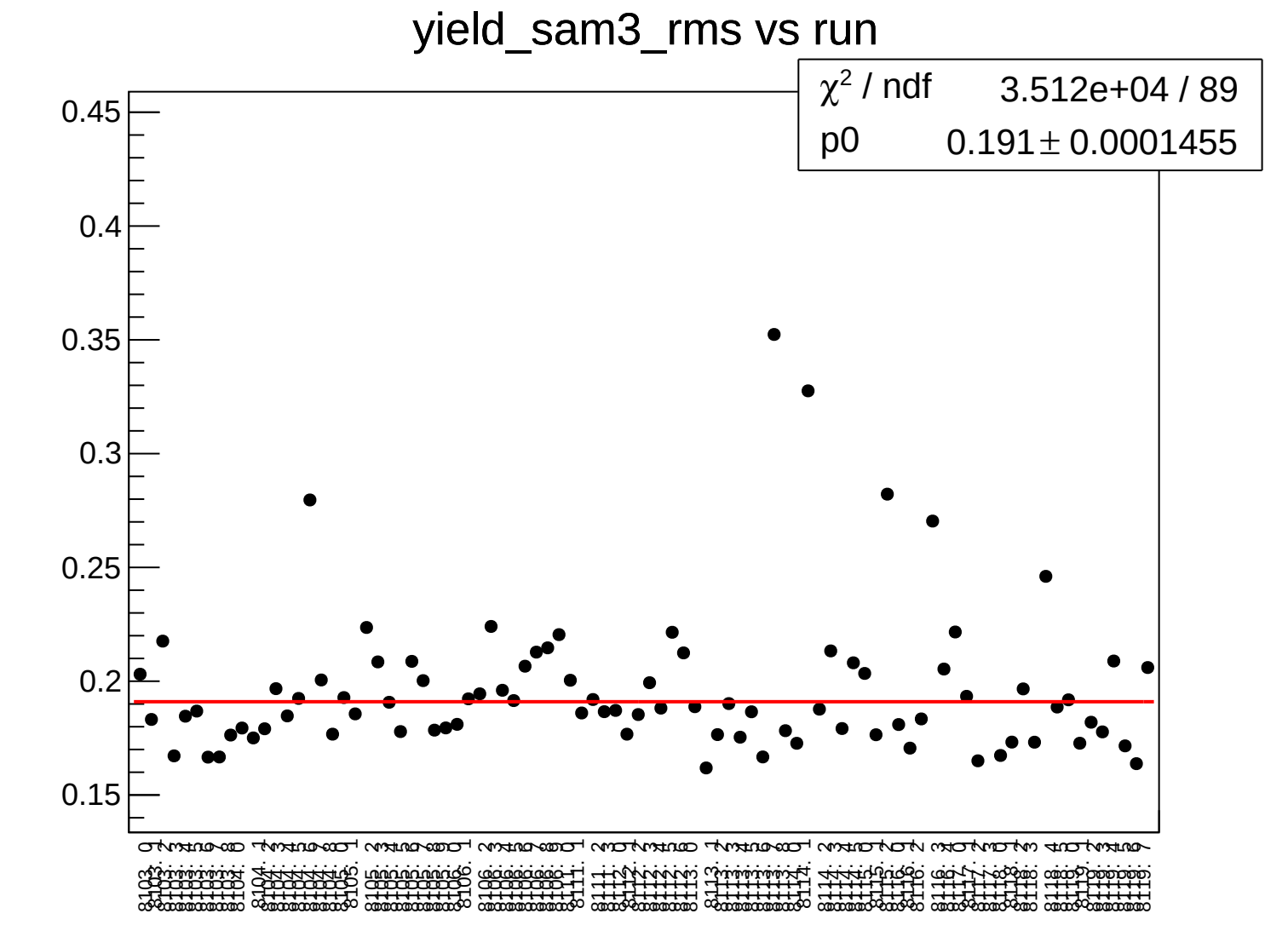

yield_sam2_mean vs run
χ² / ndf 4.375e+04 / 89
p0 24.59 ± 0.0002896
24.8
24.7
24.6
24.5
24.4
24.3
pull
Entries 90
Mean −29.42
Std Dev 0
40
20
0
−20
−40
−60

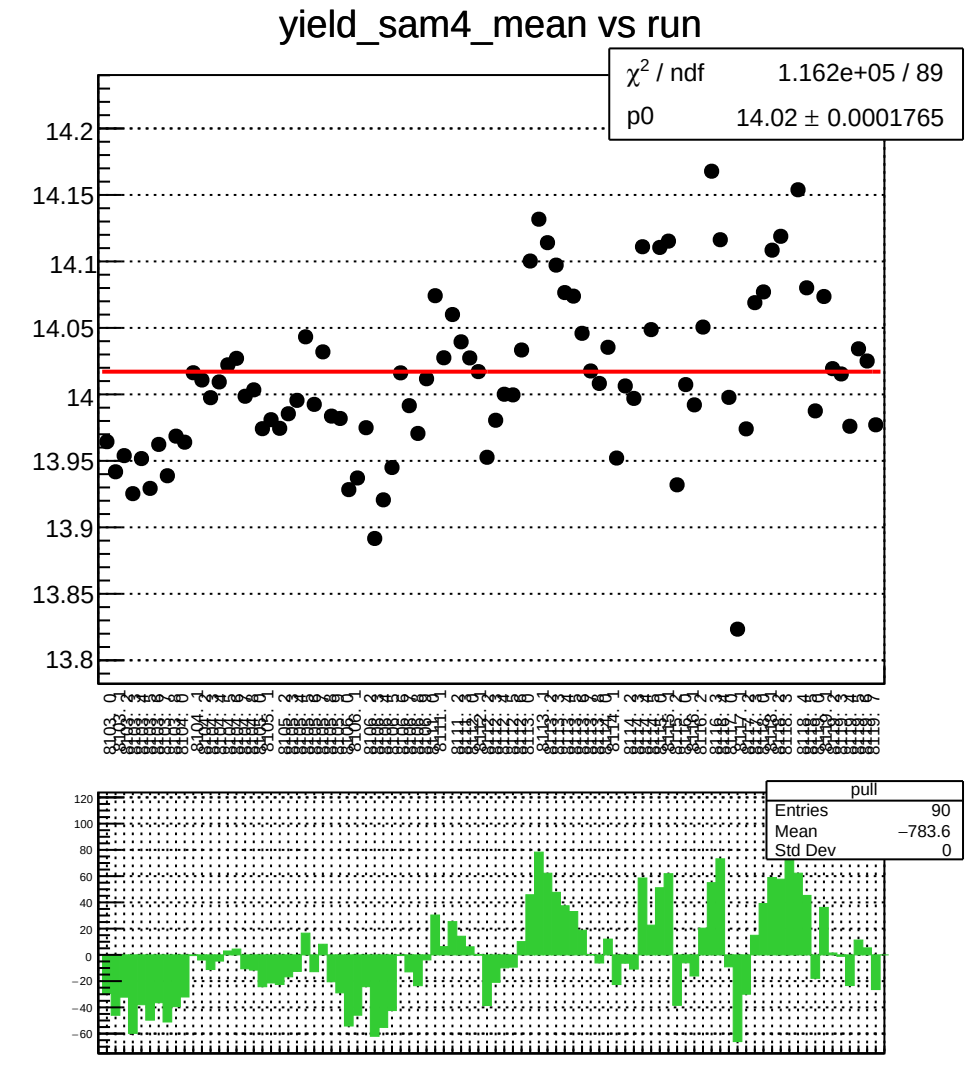

pull1D
Entries 90
Mean −0.1667
Std Dev 4.61
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

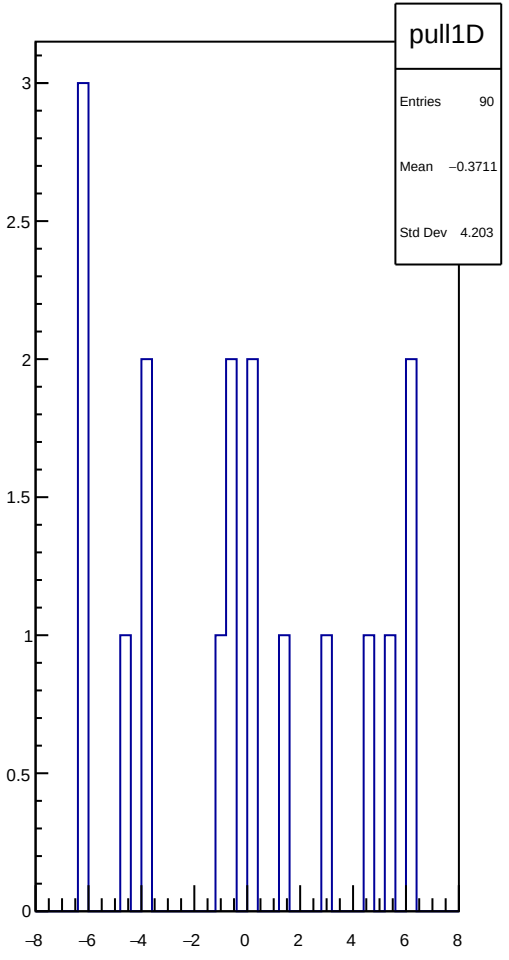

yield_sam2_rms vs run
χ² / ndf 3.394e+04 / 89
p0 0.2689 ± 0.0002048
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

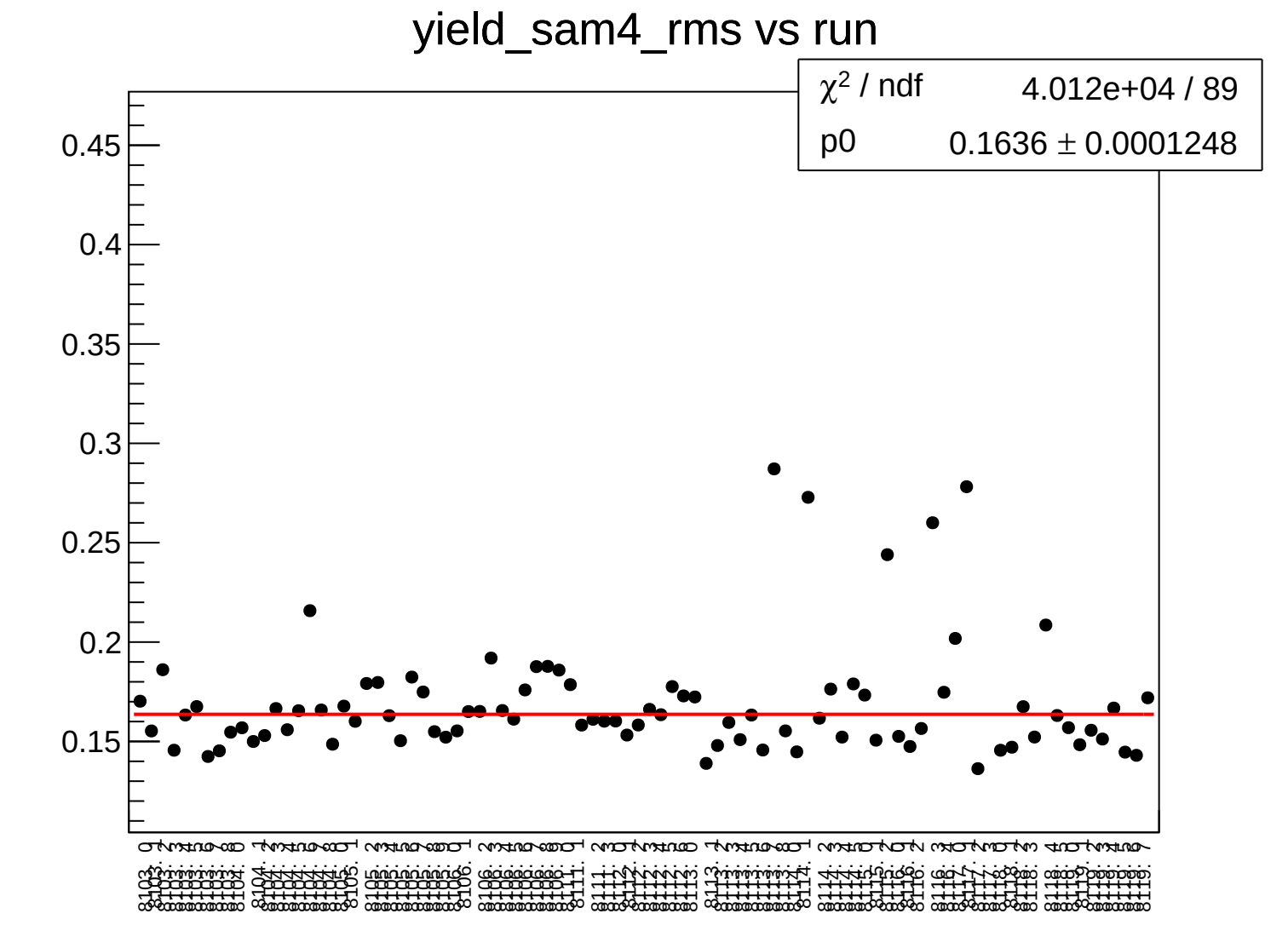

yield_sam3_mean vs run
χ² / ndf 5.795e+04 / 89
p0 23.68 ± 0.0002057
23.8
23.75
23.7
23.65
23.6
pull
Entries 90
Mean −263.4
Std Dev 0
60
40
20
0
−20
−40

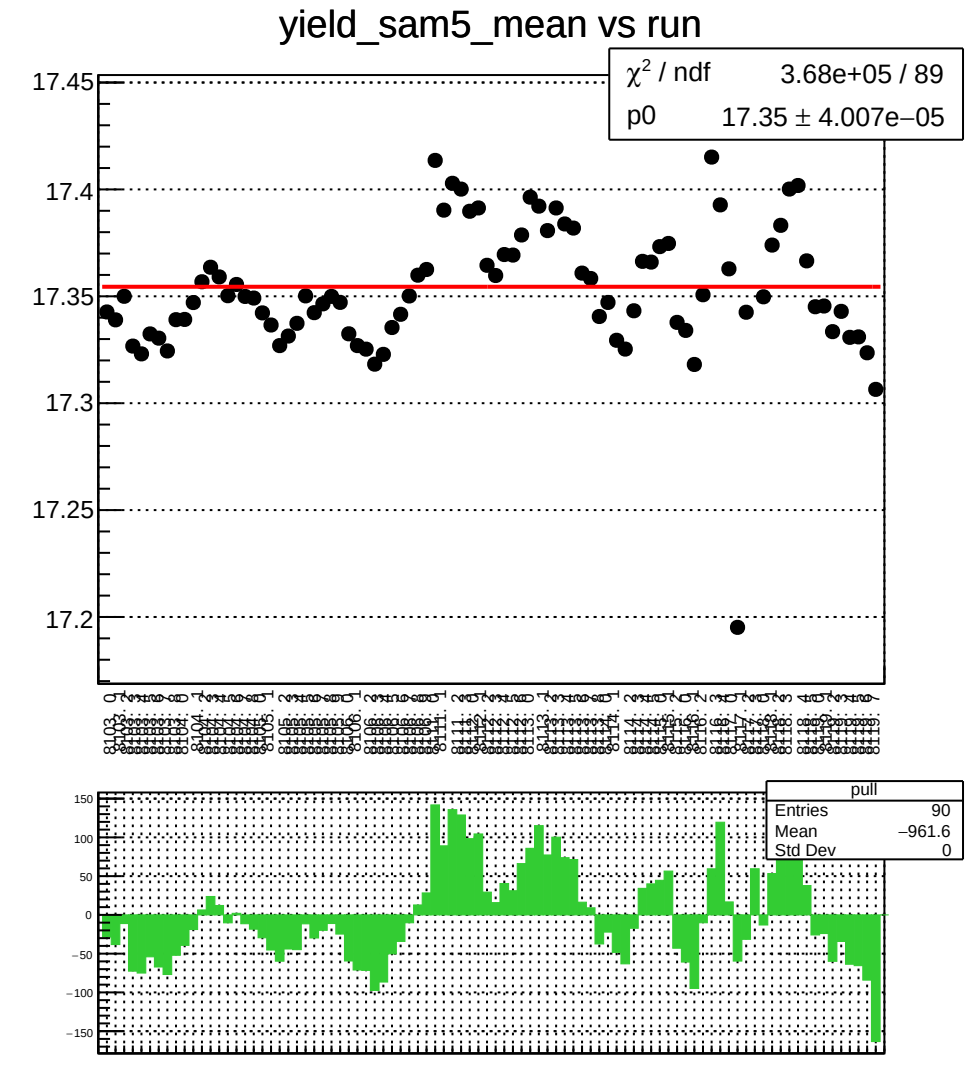

pull1D
Entries 90
Mean −0.09722
Std Dev 4.36
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

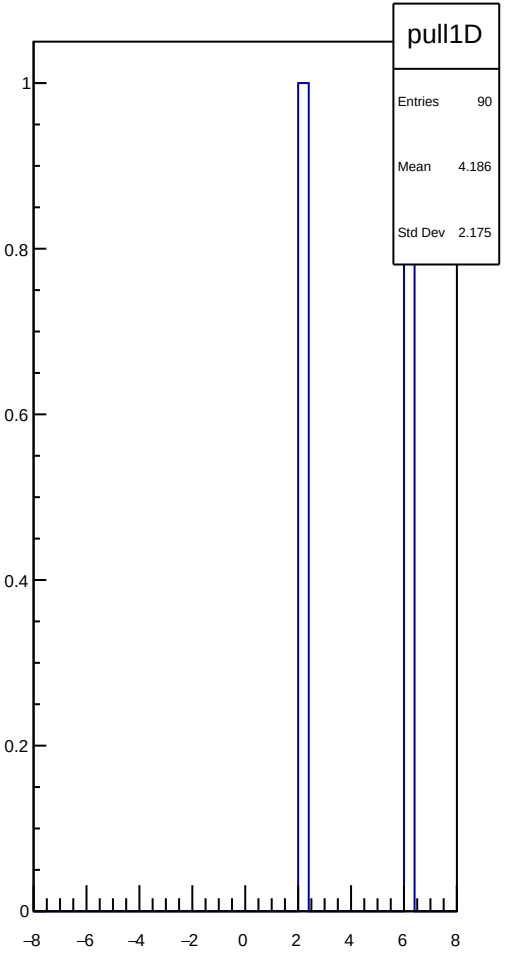

yield_sam3_rms vs run
χ^2 / ndf 3.512e+04 / 89
p0 0.191 ± 0.0001455
0.45
0.4
0.35
0.3
0.25
0.2
0.15

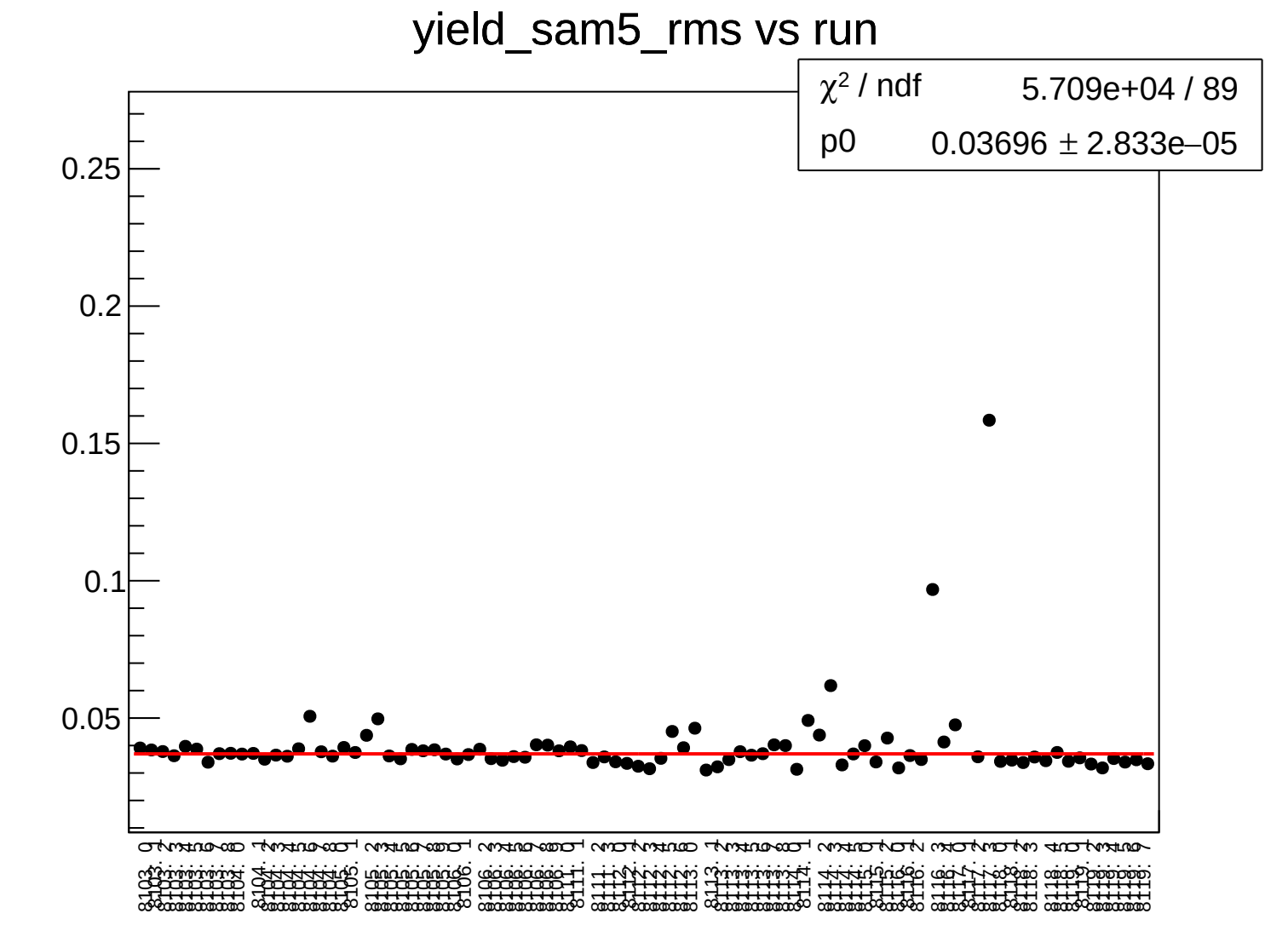

yield_sam4_mean vs run
χ² / ndf 1.162e+05 / 89
p0 14.02 ± 0.0001765
14.2
14.15
14.1
14.05
14
13.95
13.9
13.85
13.8
pull
Entries 90
Mean −783.6
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

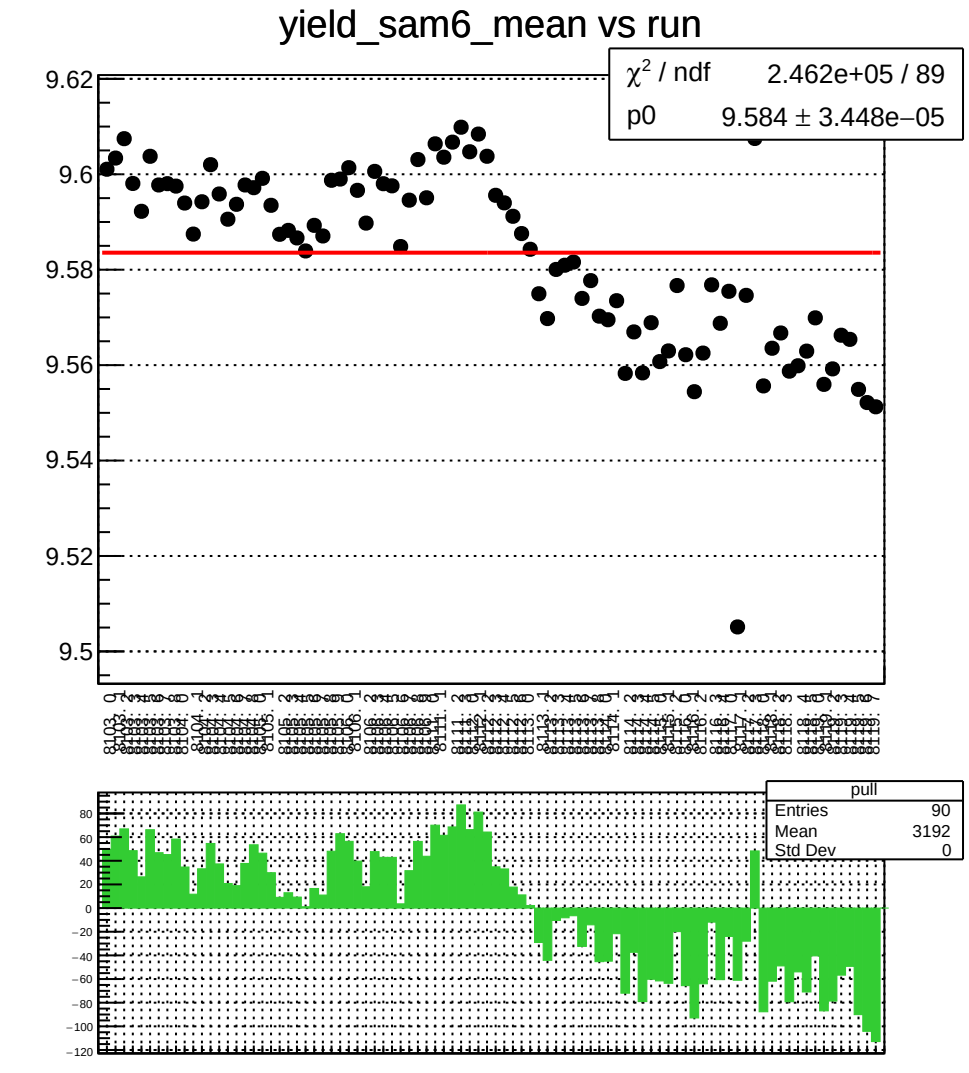

pull1D
Entries 90
Mean −0.3711
Std Dev 4.203
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

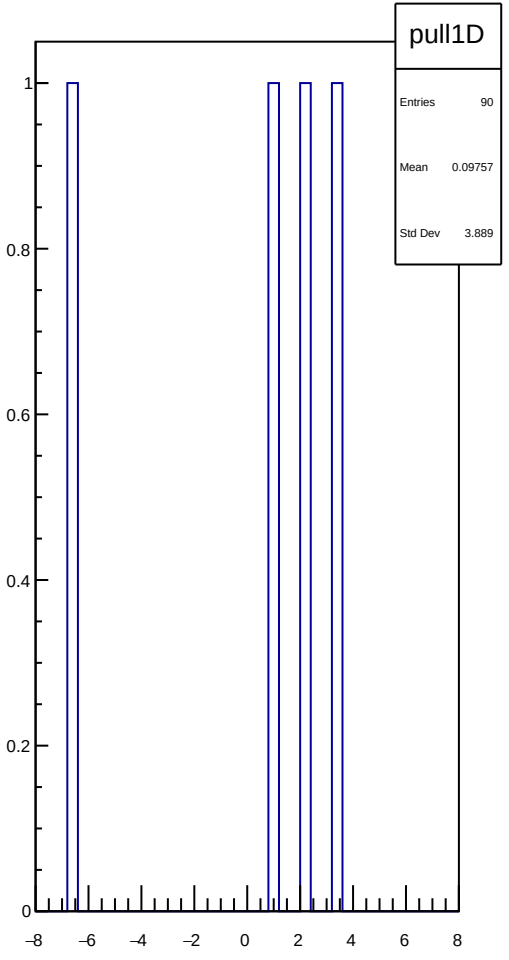

yield_sam4_rms vs run
χ² / ndf 4.012e+04 / 89
p0 0.1636 ± 0.0001248
0.45
0.4
0.35
0.3
0.25
0.2
0.15

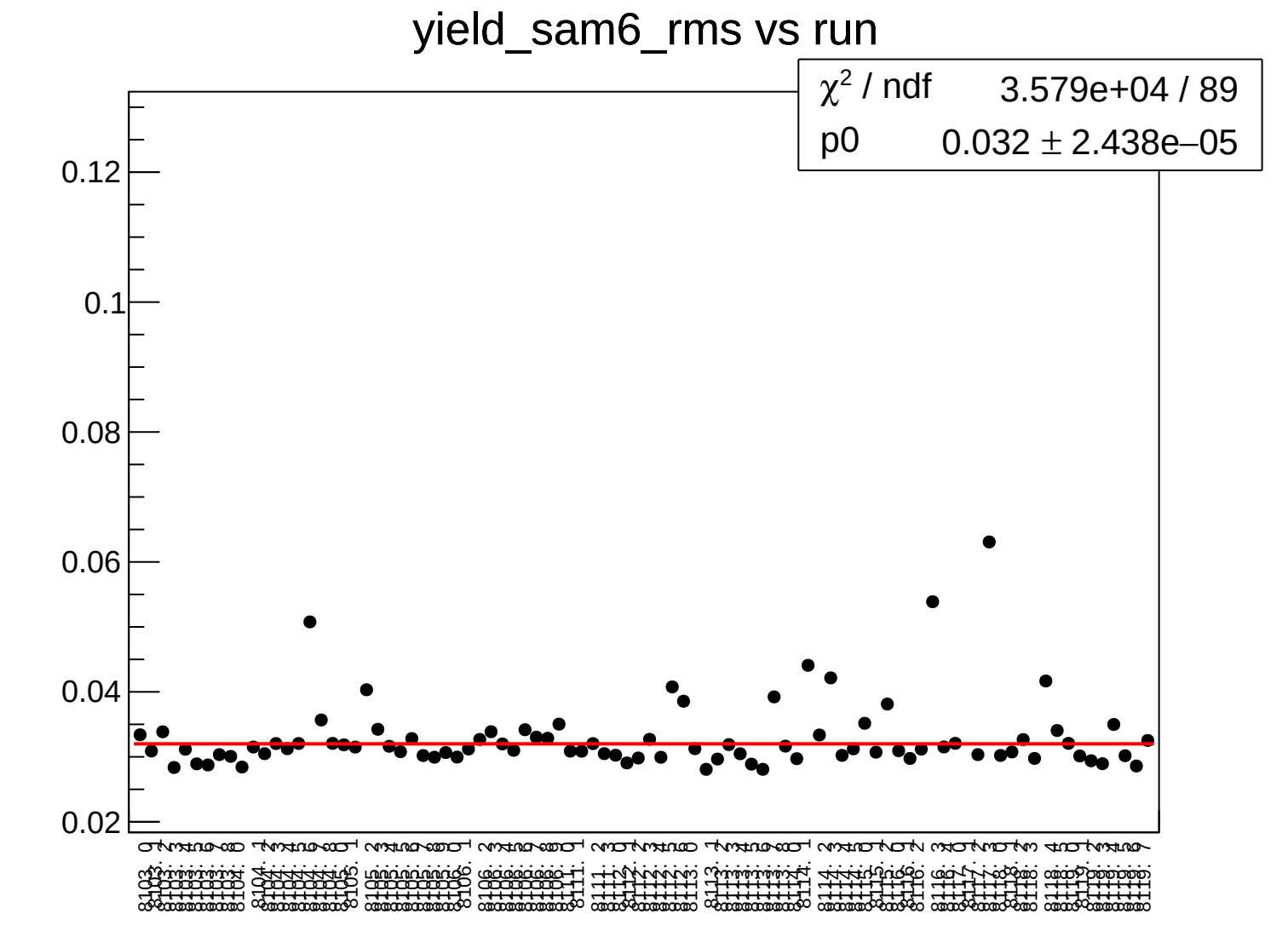

yield_sam5_mean vs run
χ² / ndf 3.68e+05 / 89
p0 17.35 ± 4.007e−05
17.45
17.4
17.35
17.3
17.25
17.2
pull
Entries 90
Mean −961.6
Std Dev 0
150
100
50
0
−50
−100
−150

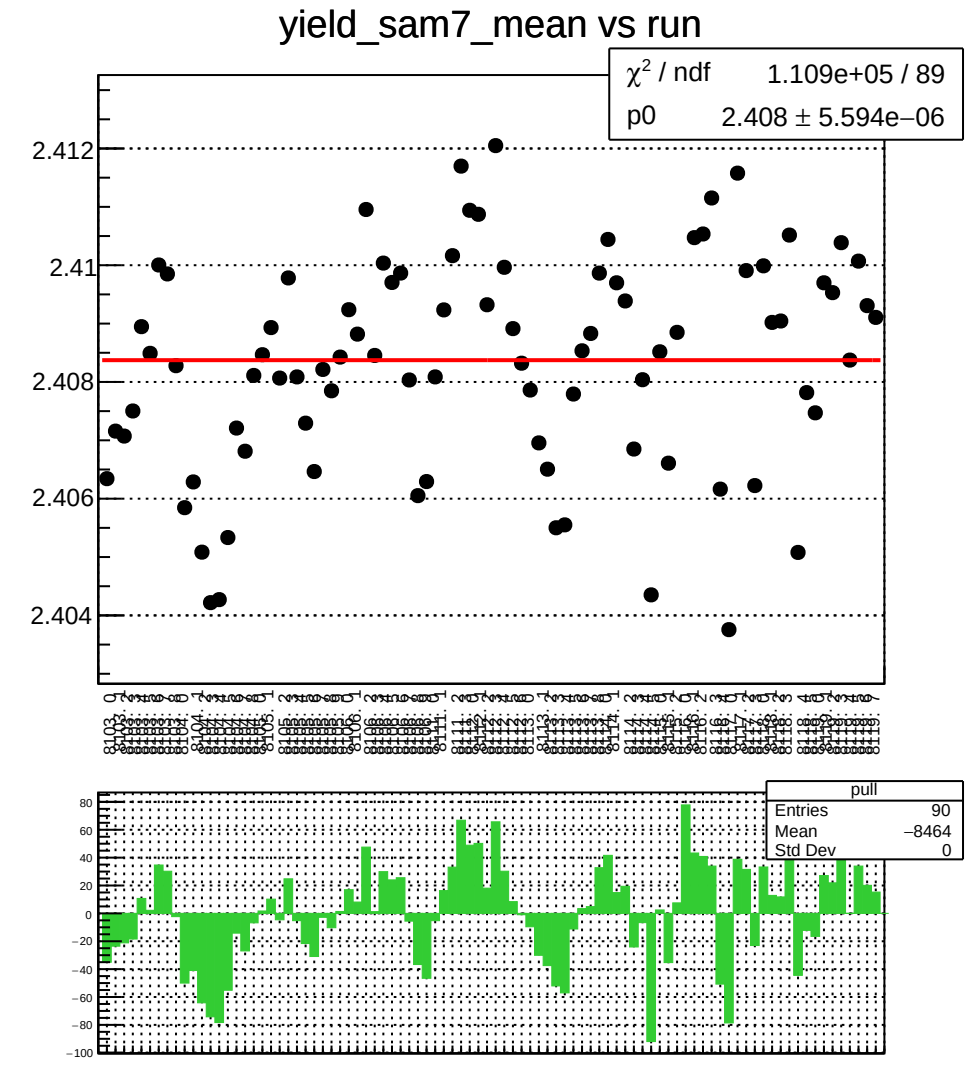

pull1D
Entries 90
Mean 4.186
Std Dev 2.175
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

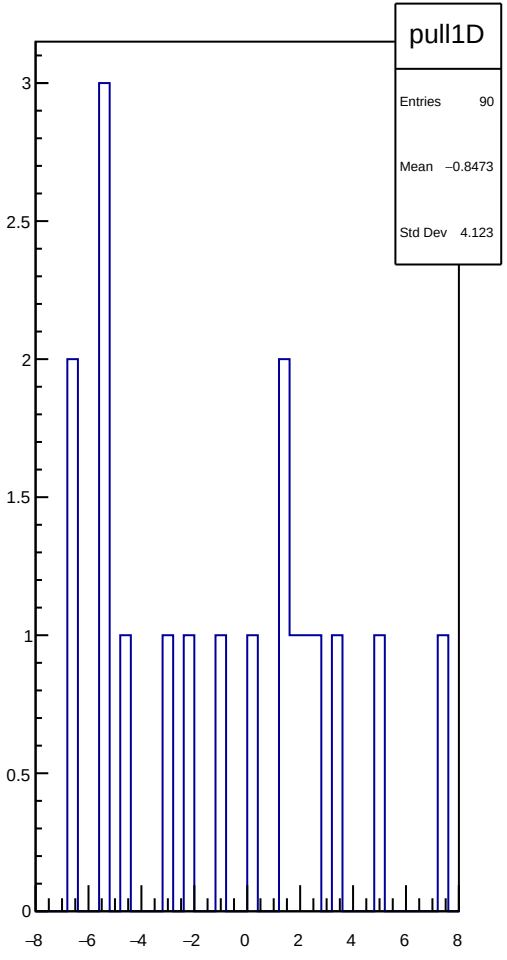

yield_sam5_rms vs run
χ² / ndf 5.709e+04 / 89
p0 0.03696 ± 2.833e–05
0.25
0.2
0.15
0.1
0.05

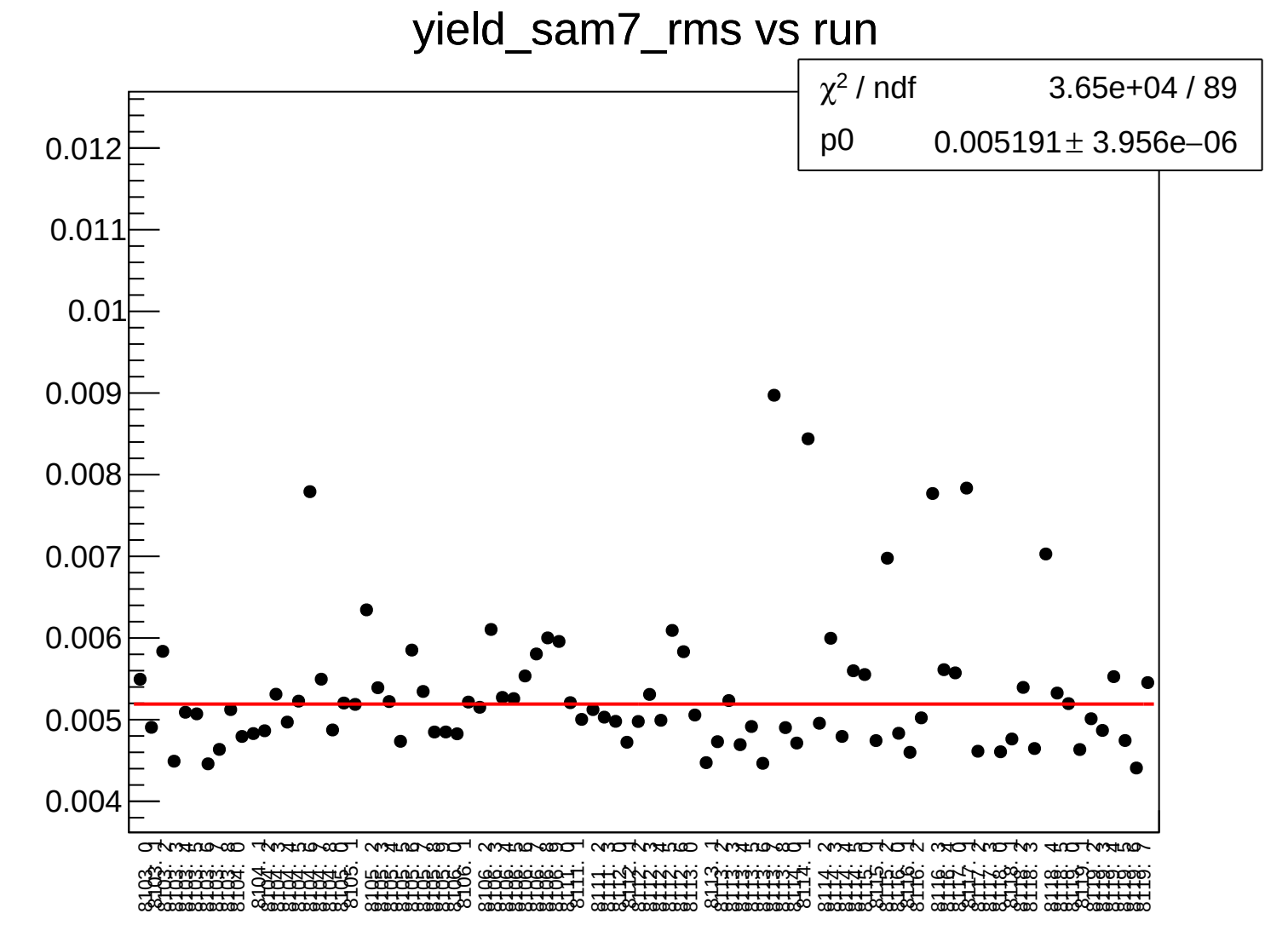

yield_sam6_mean vs run
χ² / ndf 2.462e+05 / 89
p0 9.584 ± 3.448e−05
9.62
9.6
9.58
9.56
9.54
9.52
9.5
pull
Entries 90
Mean 3192
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

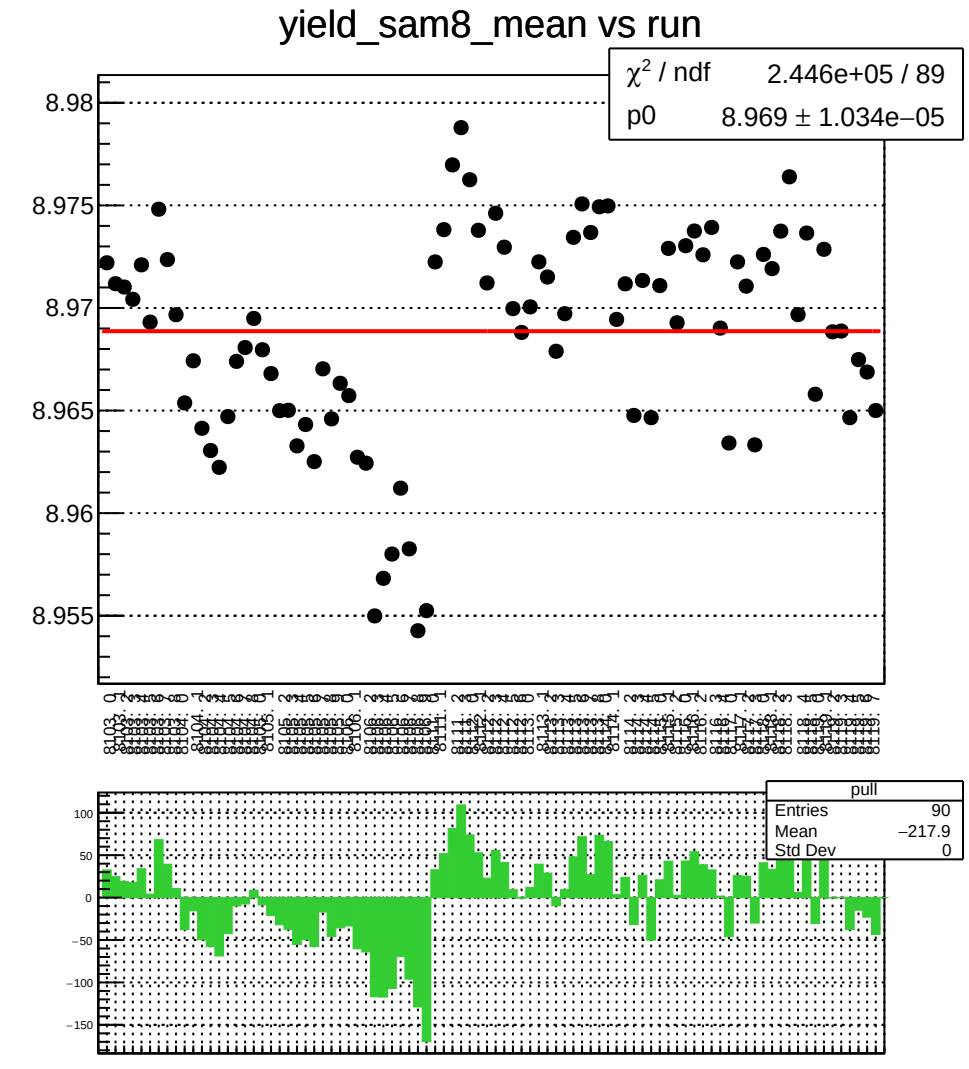

pull1D
Entries 90
Mean 0.09757
Std Dev 3.889
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

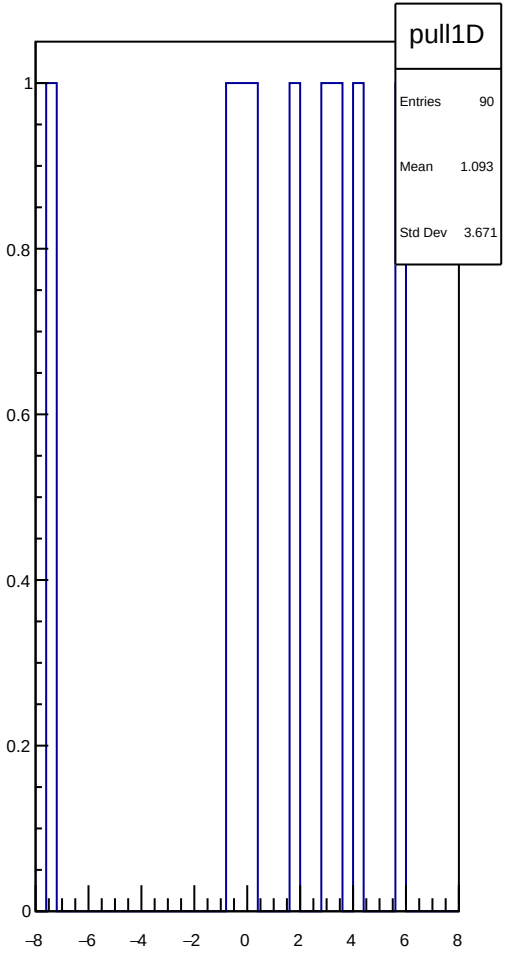

yield_sam6_rms vs run
χ^2 / ndf 3.579e+04 / 89
p0 0.032 ± 2.438e−05
0.12
0.1
0.08
0.06
0.04
0.02

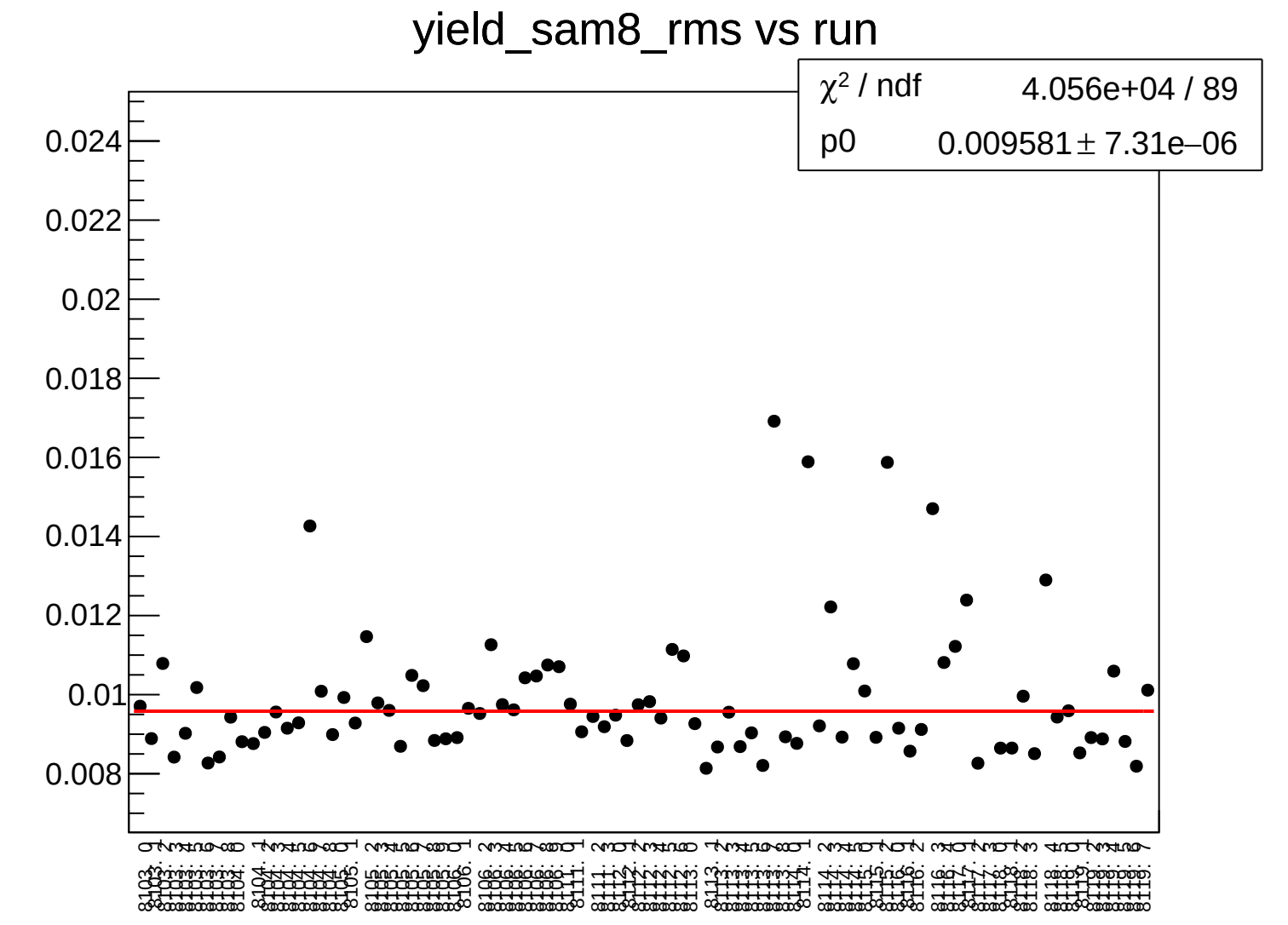

yield_sam7_mean vs run
χ² / ndf 1.109e+05 / 89
p0 2.408 ± 5.594e−06
2.412
2.41
2.408
2.406
2.404
pull
Entries 90
Mean −8464
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

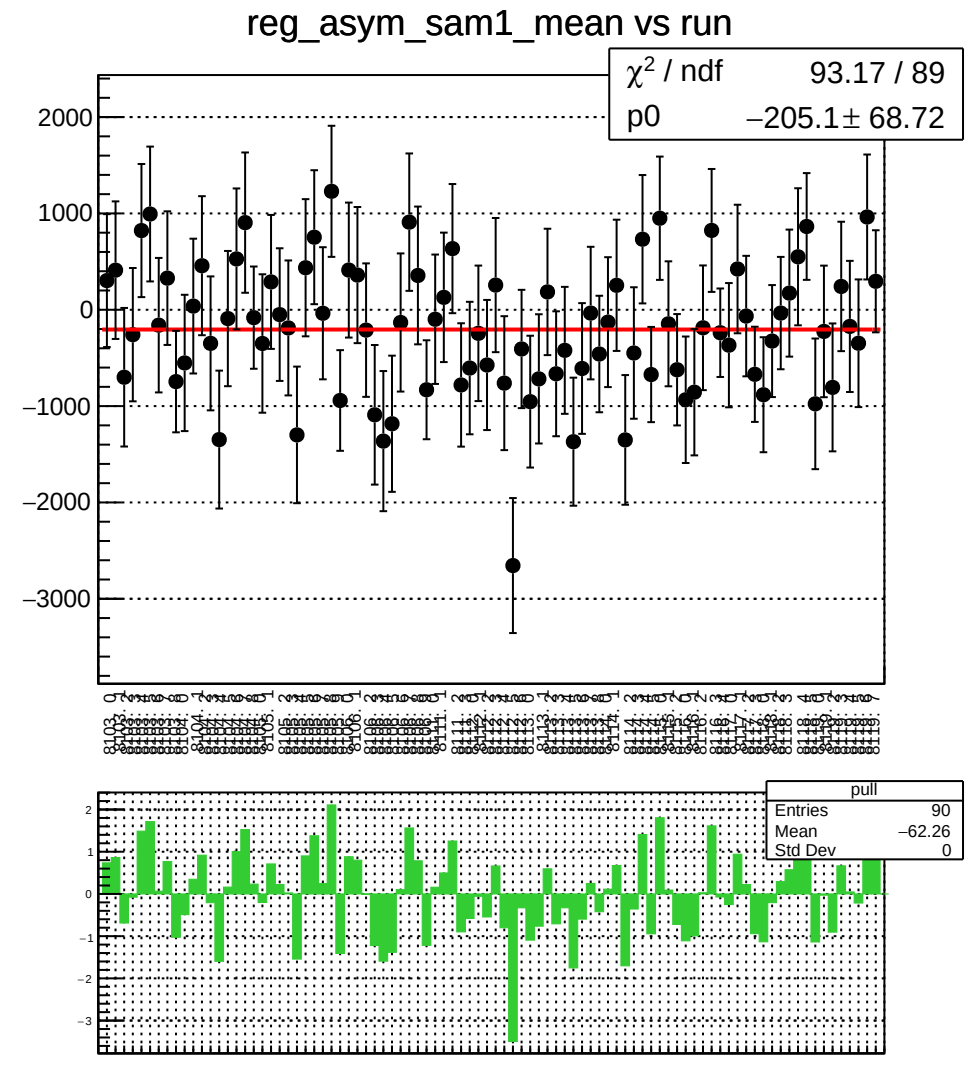

pull1D
Entries 90
Mean −0.8473
Std Dev 4.123
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

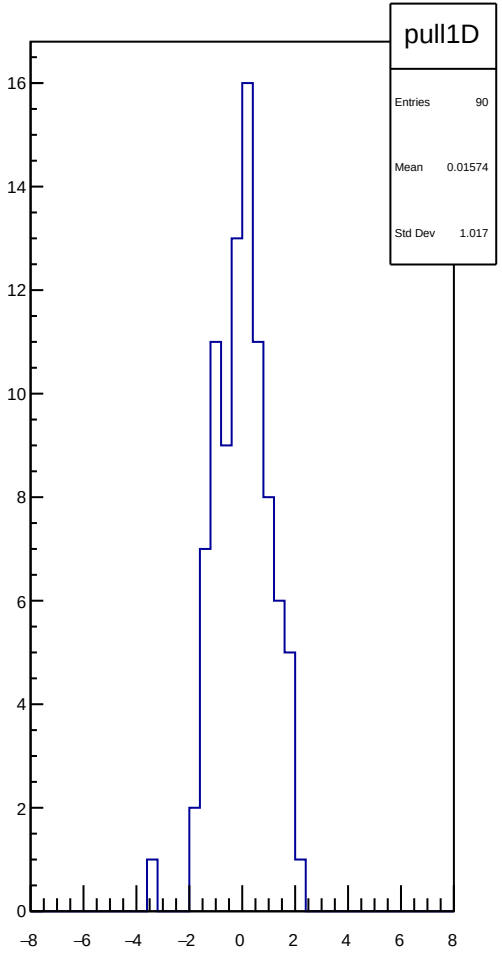

yield_sam7_rms vs run
χ^2 / ndf 3.65e+04 / 89
p0 0.005191 ± 3.956e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

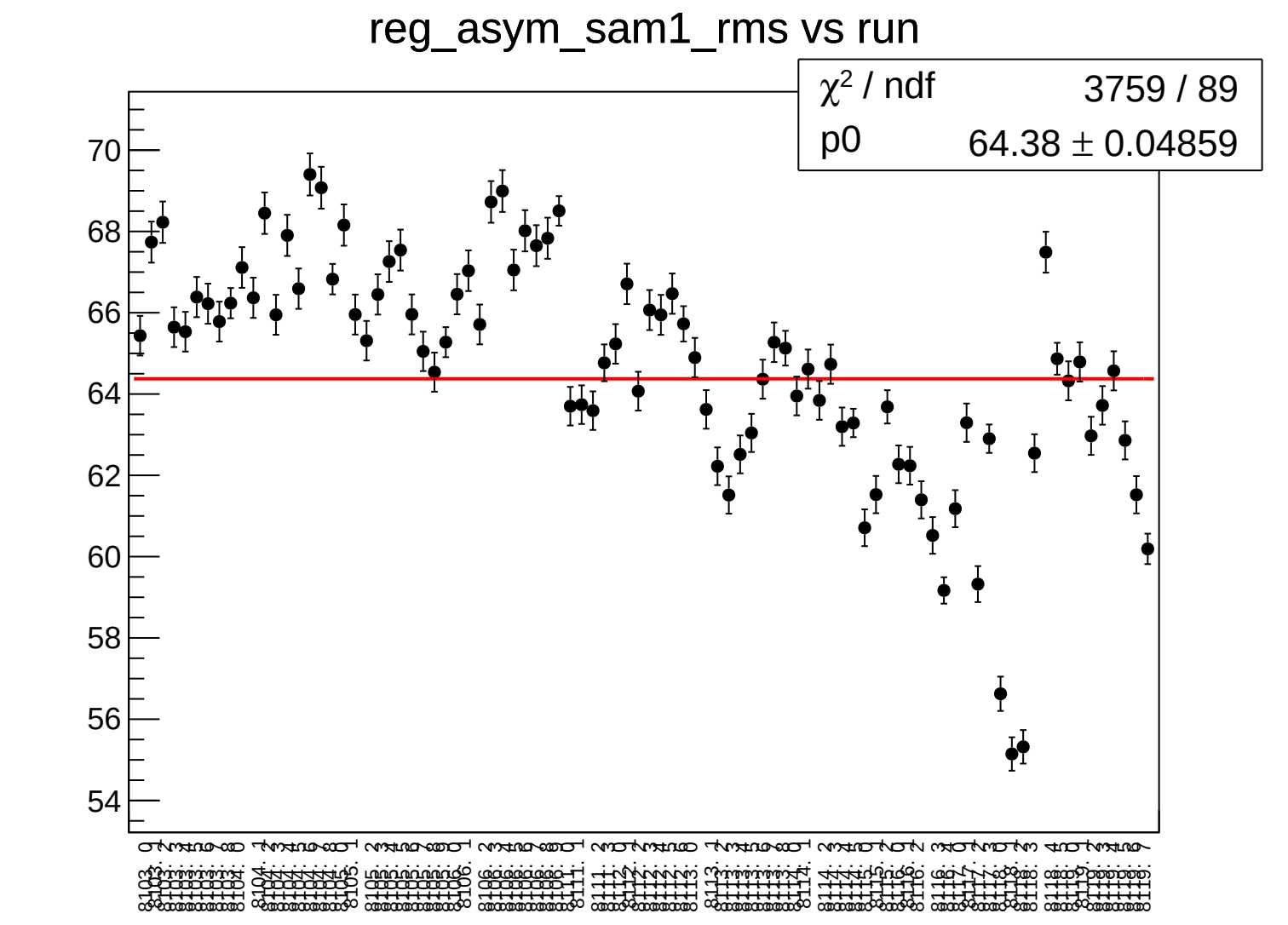

yield_sam8_mean vs run
χ² / ndf 2.446e+05 / 89
p0 8.969 ± 1.034e−05
8.98
8.975
8.97
8.965
8.96
8.955
pull
Entries 90
Mean −217.9
Std Dev 0
100
50
0
−50
−100
−150

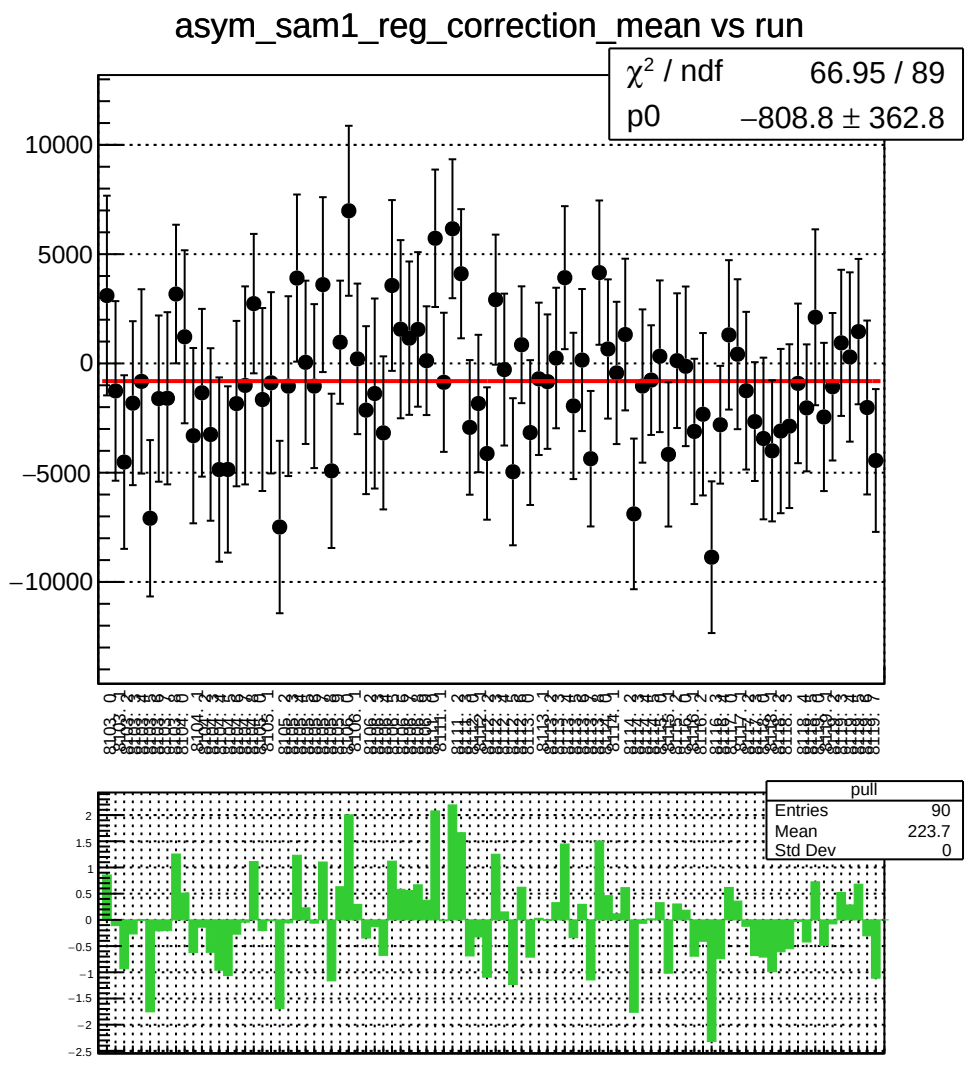

pull1D
Entries 90
Mean 1.093
Std Dev 3.671
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

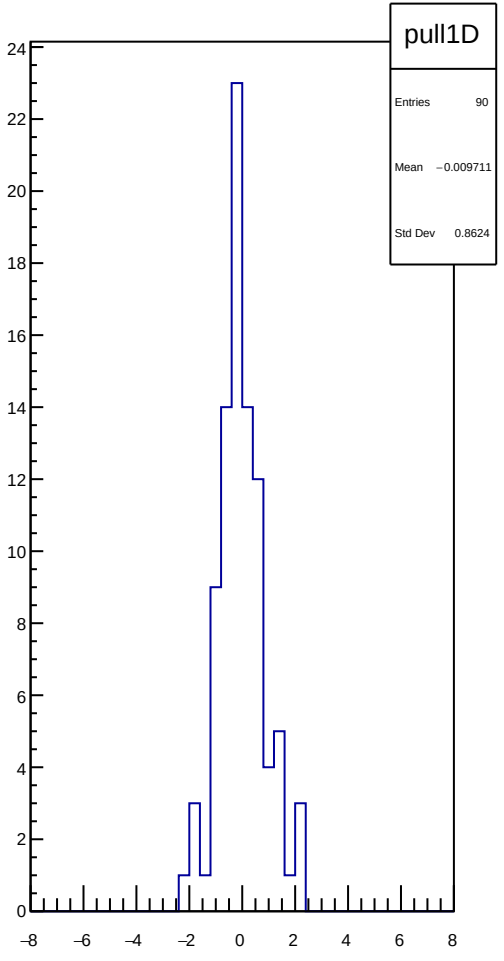

yield_sam8_rms vs run
χ² / ndf 4.056e+04 / 89
p0 0.009581 ± 7.31e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

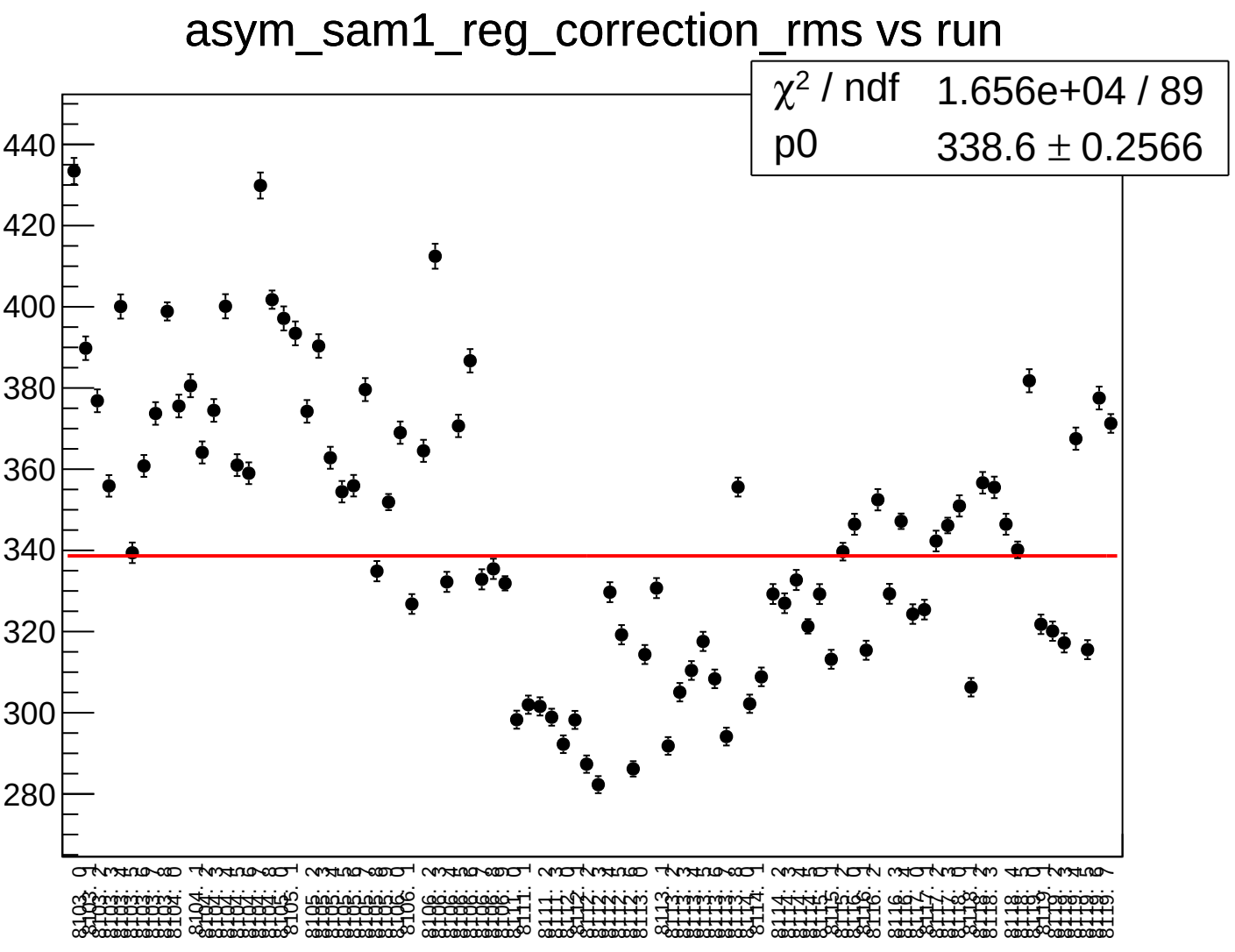

reg_asym_sam1_mean vs run
χ² / ndf 93.17 / 89
p0 −205.1± 68.72
pull
Entries 90
Mean −62.26
Std Dev 0

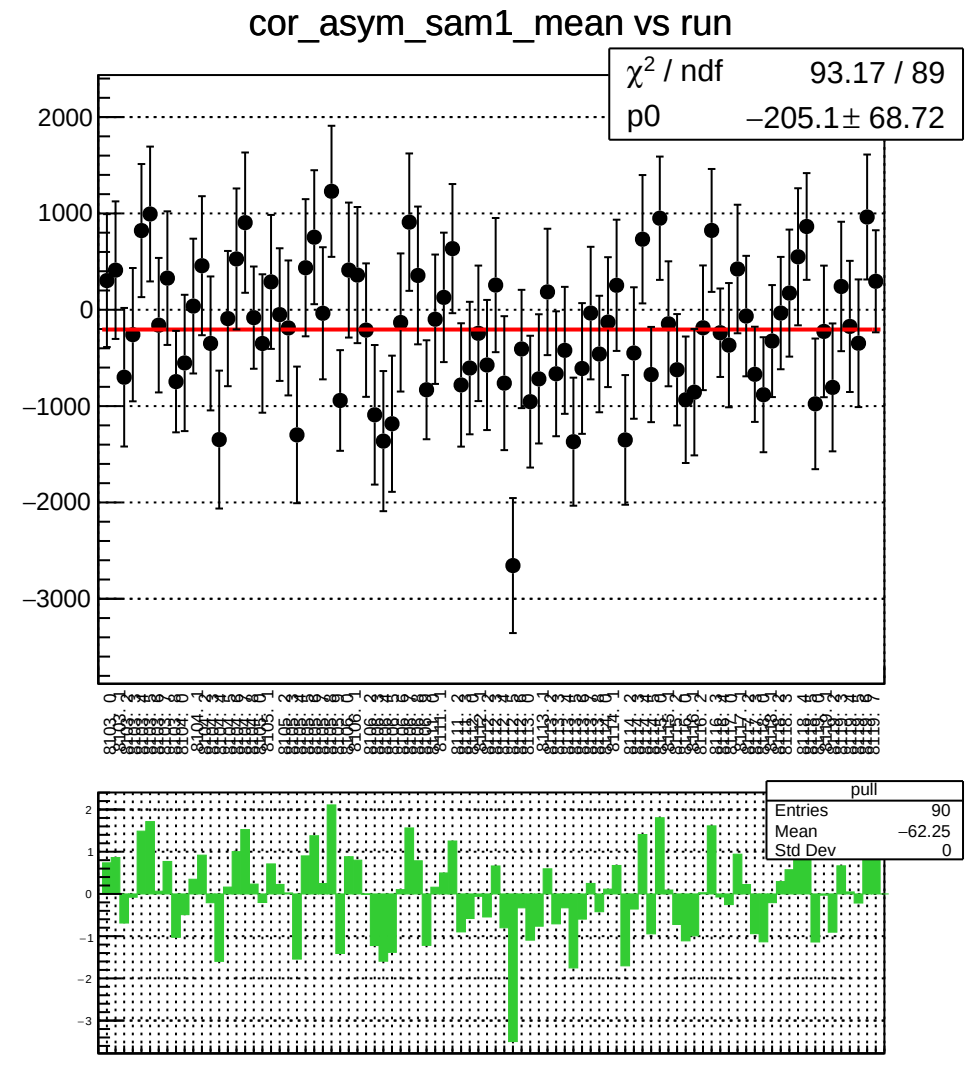

pull1D
Entries 90
Mean 0.01574
Std Dev 1.017

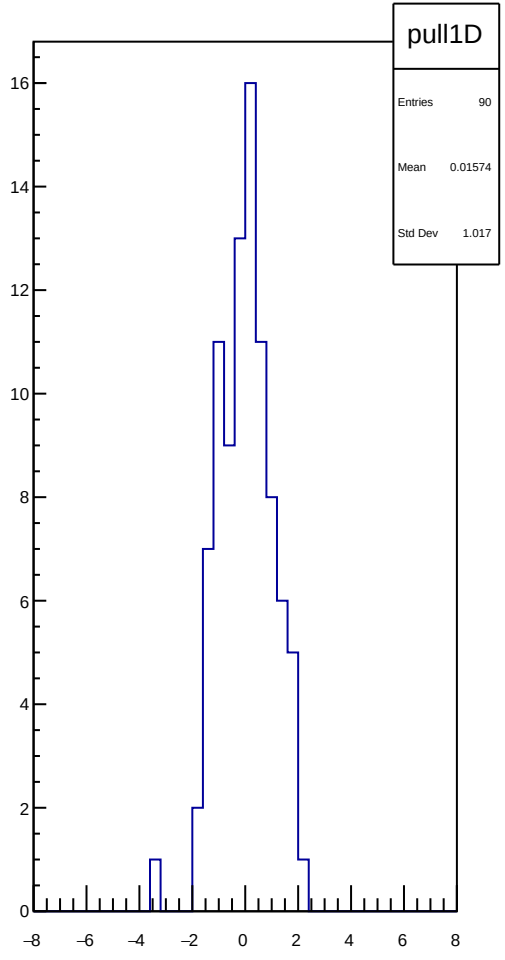

reg_asym_sam1_rms vs run
χ^2 / ndf 3759 / 89
p0 64.38 ± 0.04859
70
68
66
64
62
60
58
56
54

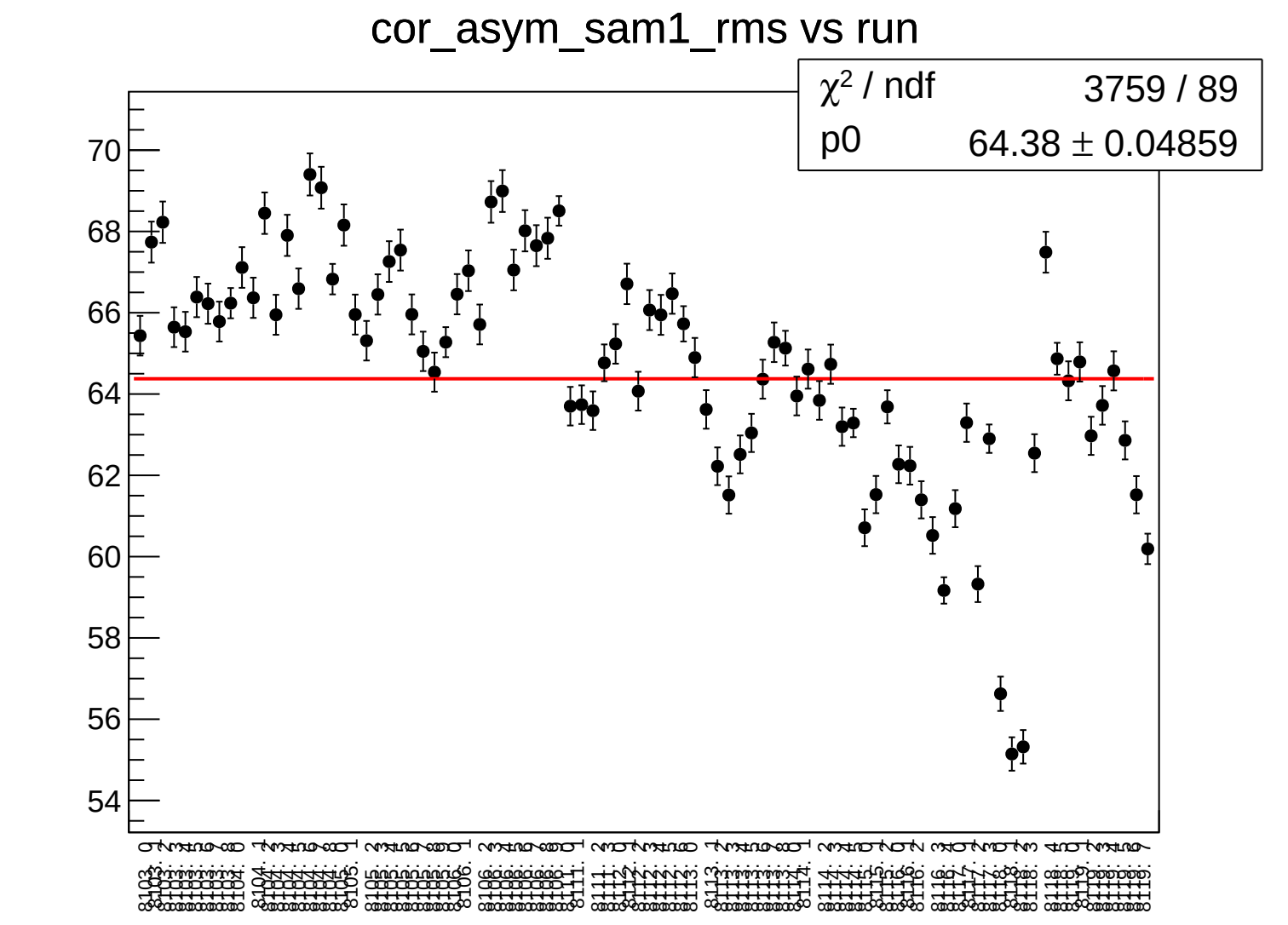

asym_sam1_reg_correction_mean vs run
χ² / ndf 66.95 / 89
p0 −808.8 ± 362.8
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 223.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

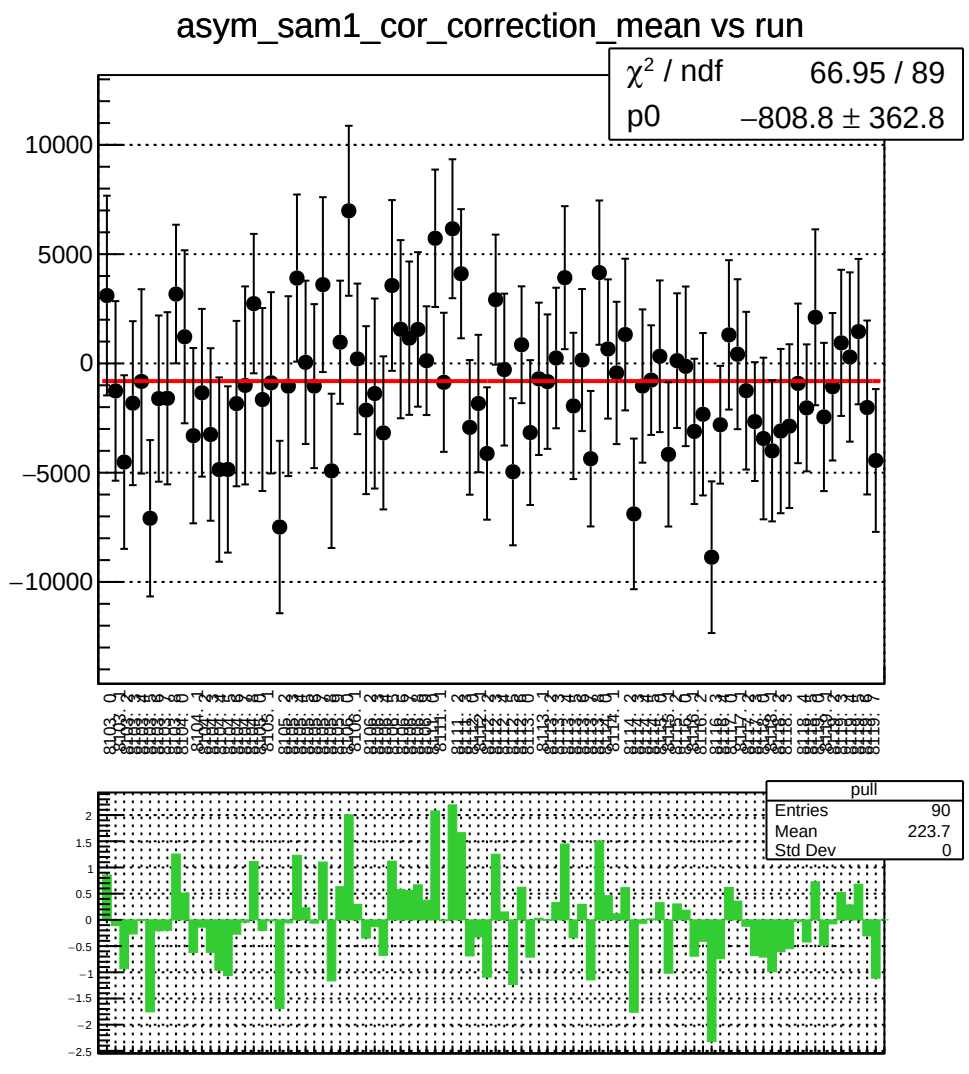

pull1D
Entries 90
Mean −0.009711
Std Dev 0.8624
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

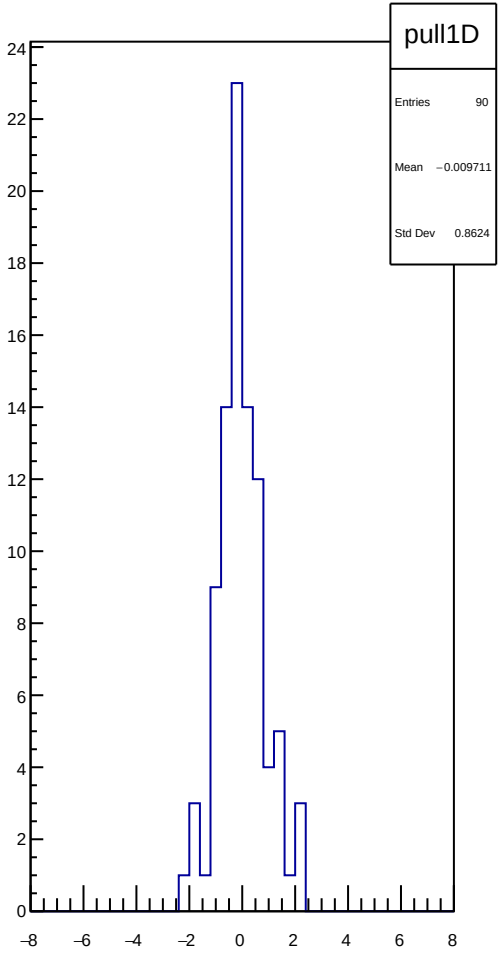

asym_sam1_reg_correction_rms vs run
χ² / ndf 1.656e+04 / 89
p0 338.6 ± 0.2566
440
420
400
380
360
340
320
300
280

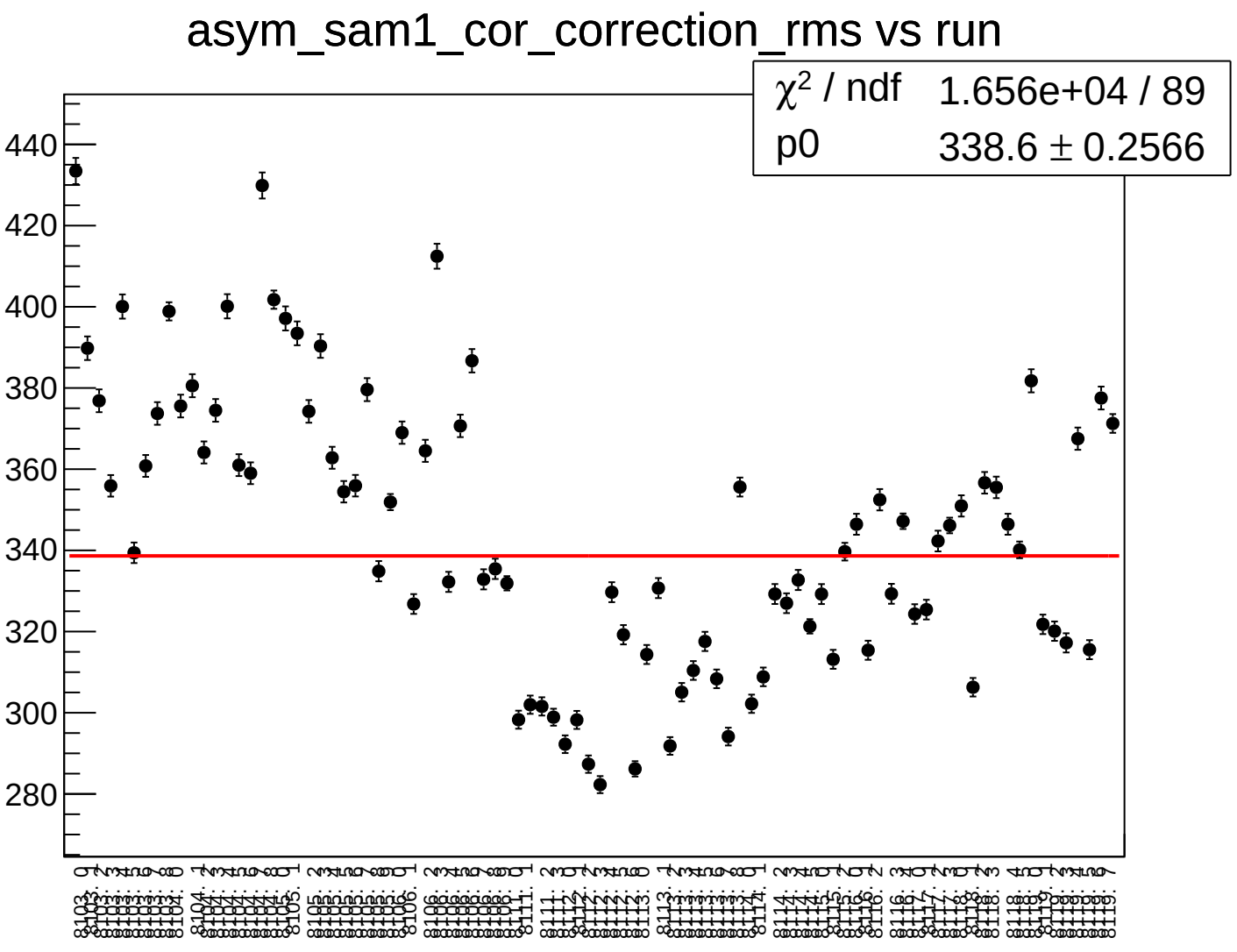

cor_asym_sam1_mean vs run
χ² / ndf 93.17 / 89
p0 −205.1± 68.72
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −62.25
Std Dev 0
2
1
0
−1
−2
−3

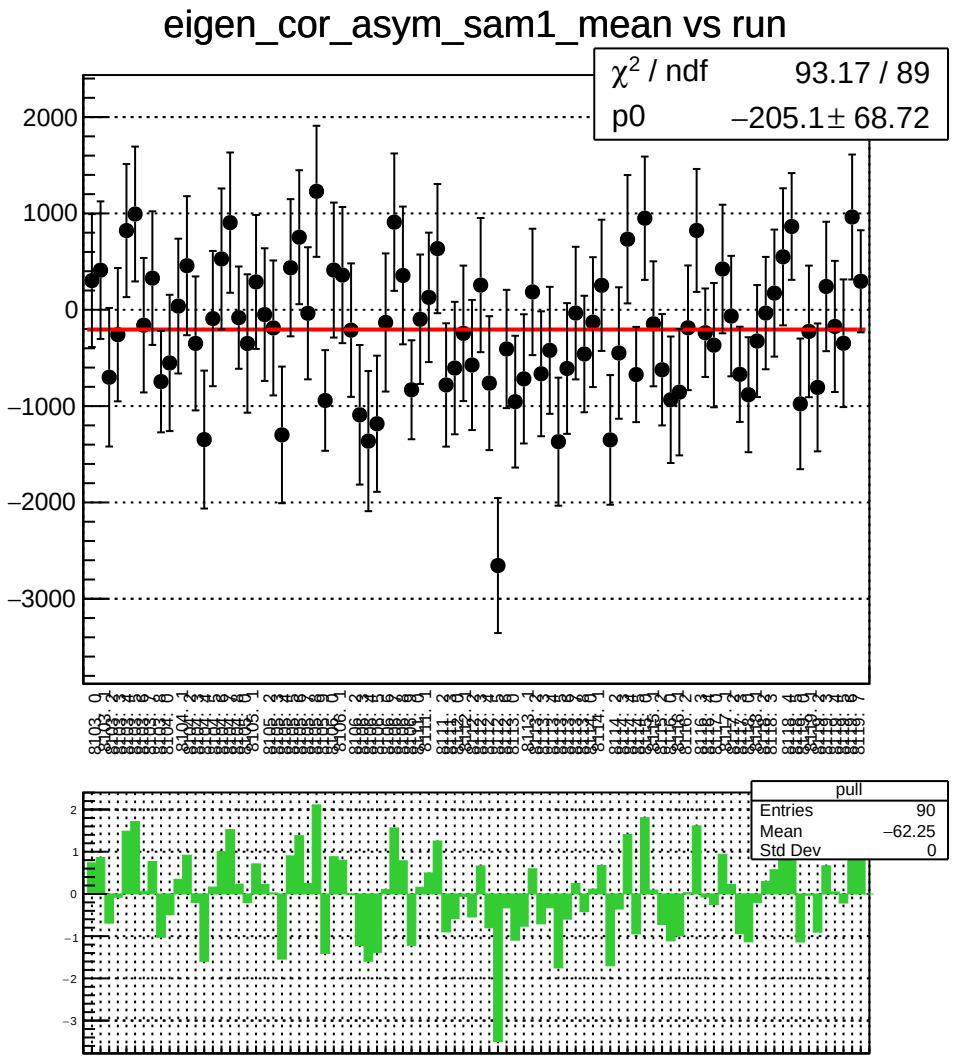

pull1D
Entries 90
Mean 0.01574
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

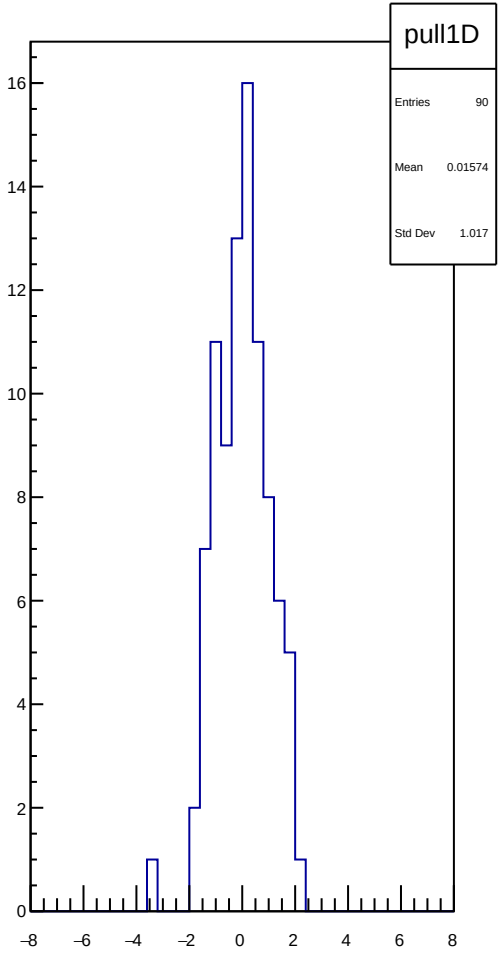

cor_asym_sam1_rms vs run
χ^2 / ndf 3759 / 89
p0 64.38 ± 0.04859
70
68
66
64
62
60
58
56
54

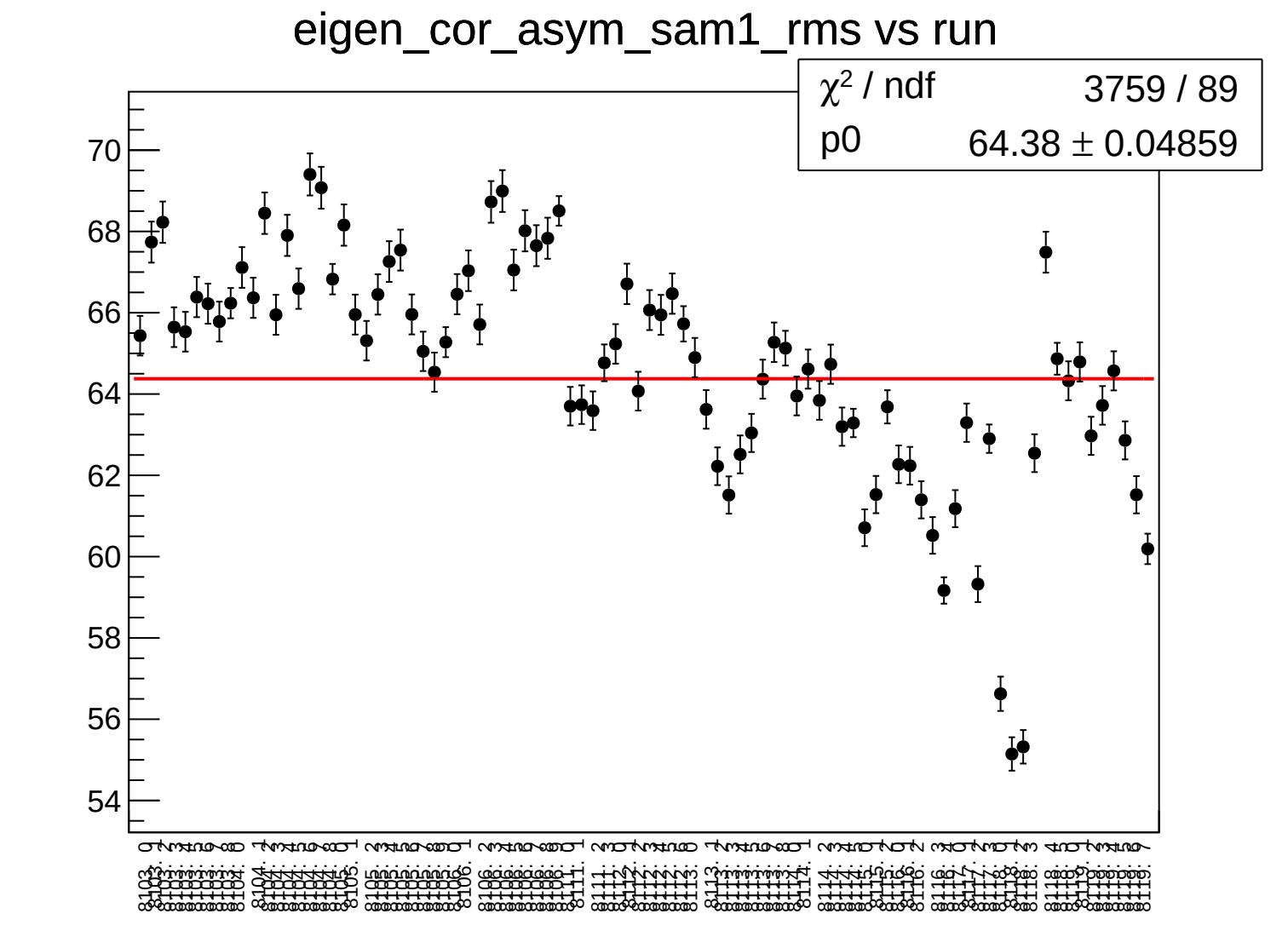

asym_sam1_cor_correction_mean vs run
χ² / ndf 66.95 / 89
p0 −808.8 ± 362.8
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 223.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

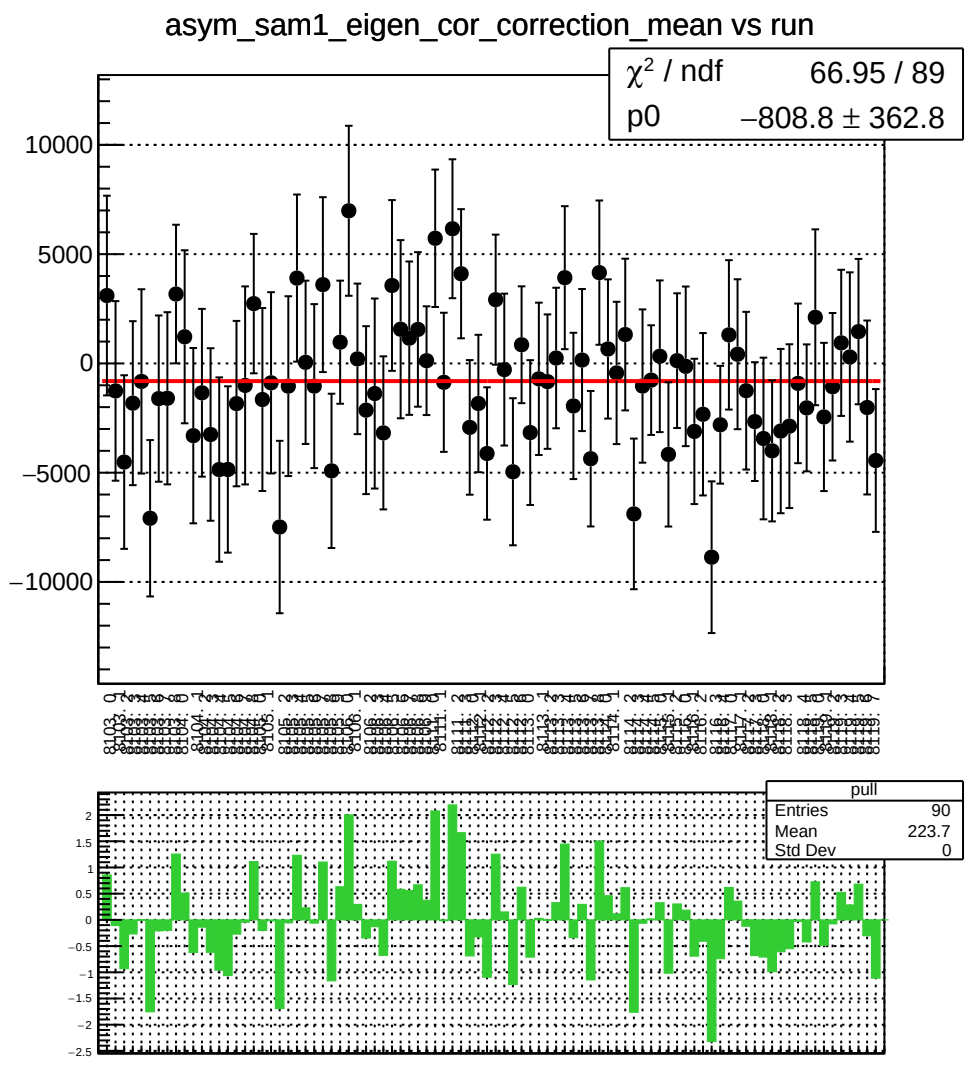

pull1D
Entries 90
Mean −0.009711
Std Dev 0.8624
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

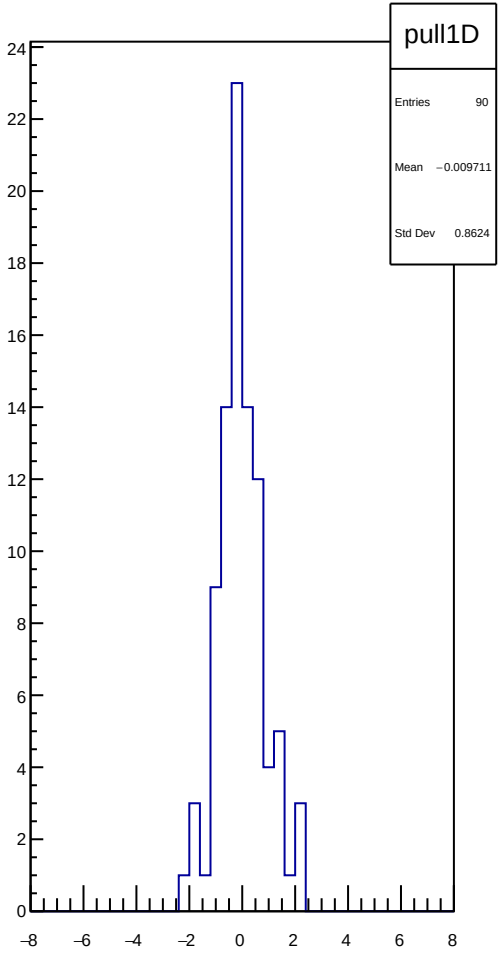

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.656e+04 / 89
p0 338.6 ± 0.2566
440
420
400
380
360
340
320
300
280

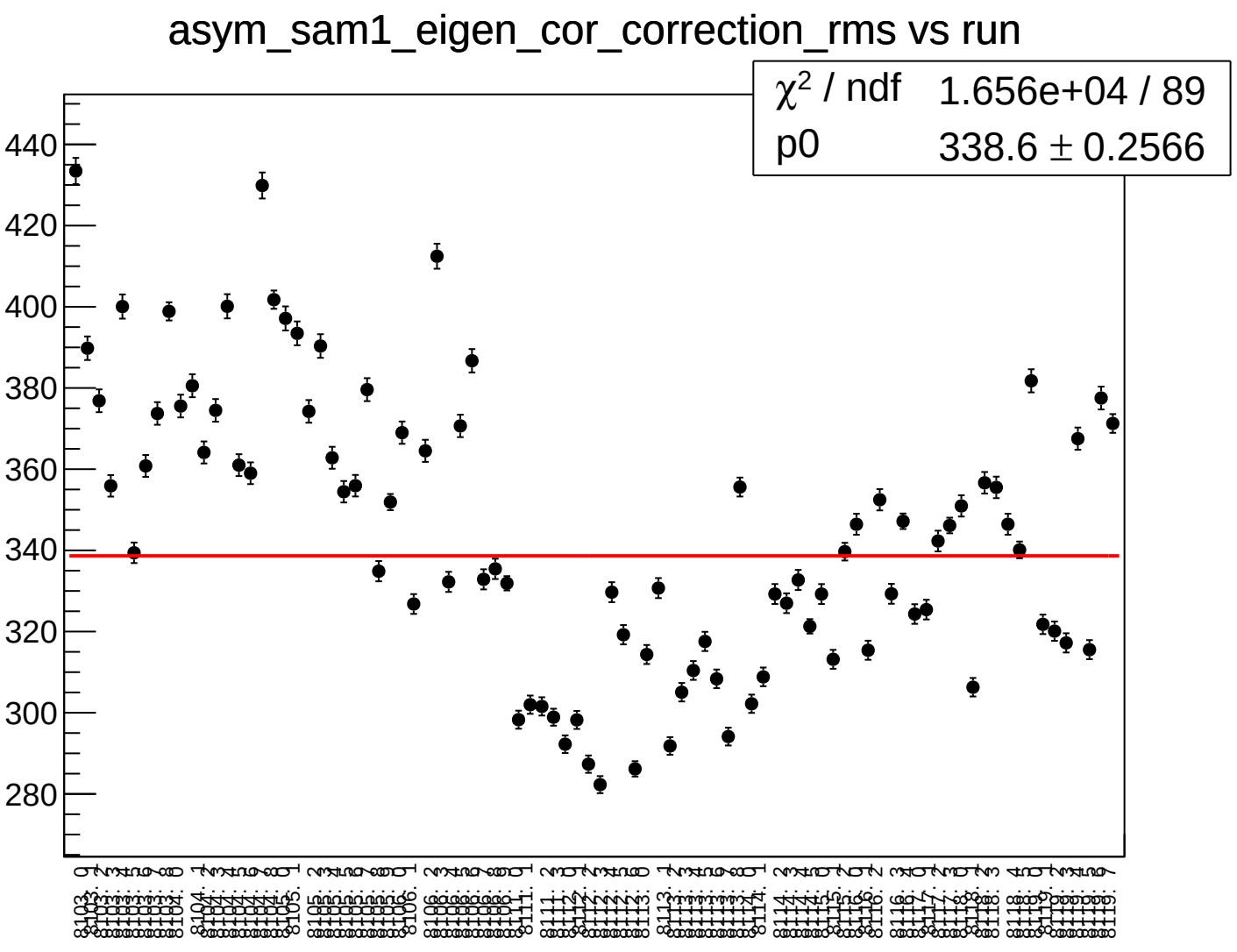

eigen_cor_asym_sam1_mean vs run
χ² / ndf 93.17 / 89
p0 −205.1± 68.72
pull
Entries 90
Mean −62.25
Std Dev 0

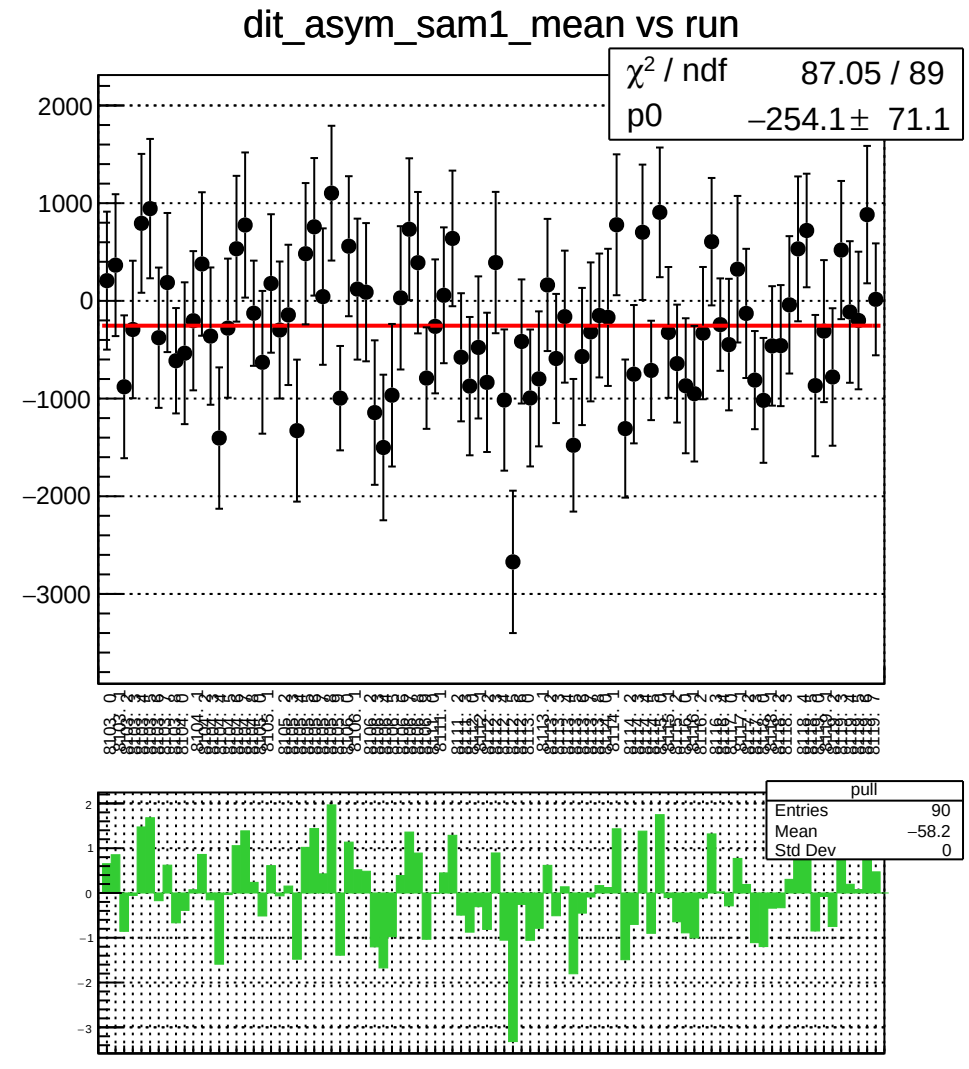

pull1D
Entries 90
Mean 0.01574
Std Dev 1.017

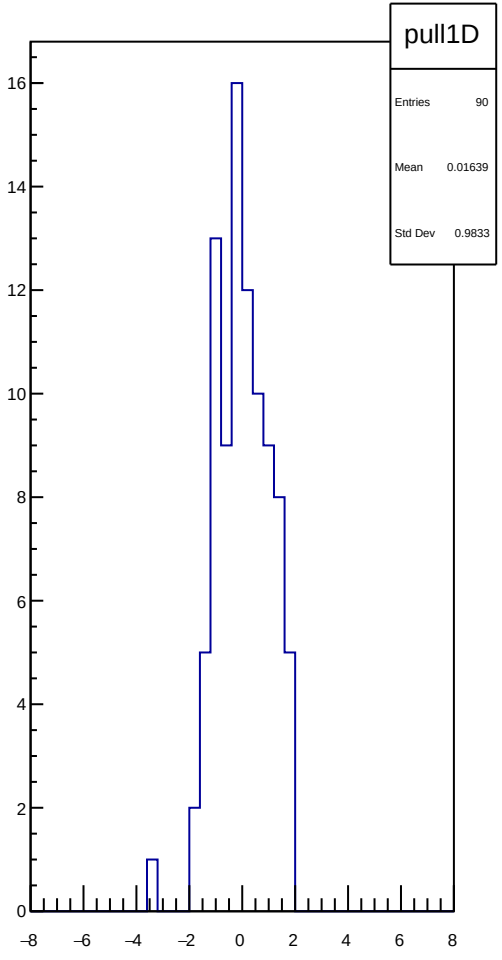

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 3759 / 89
p0 64.38 ± 0.04859
70
68
66
64
62
60
58
56
54

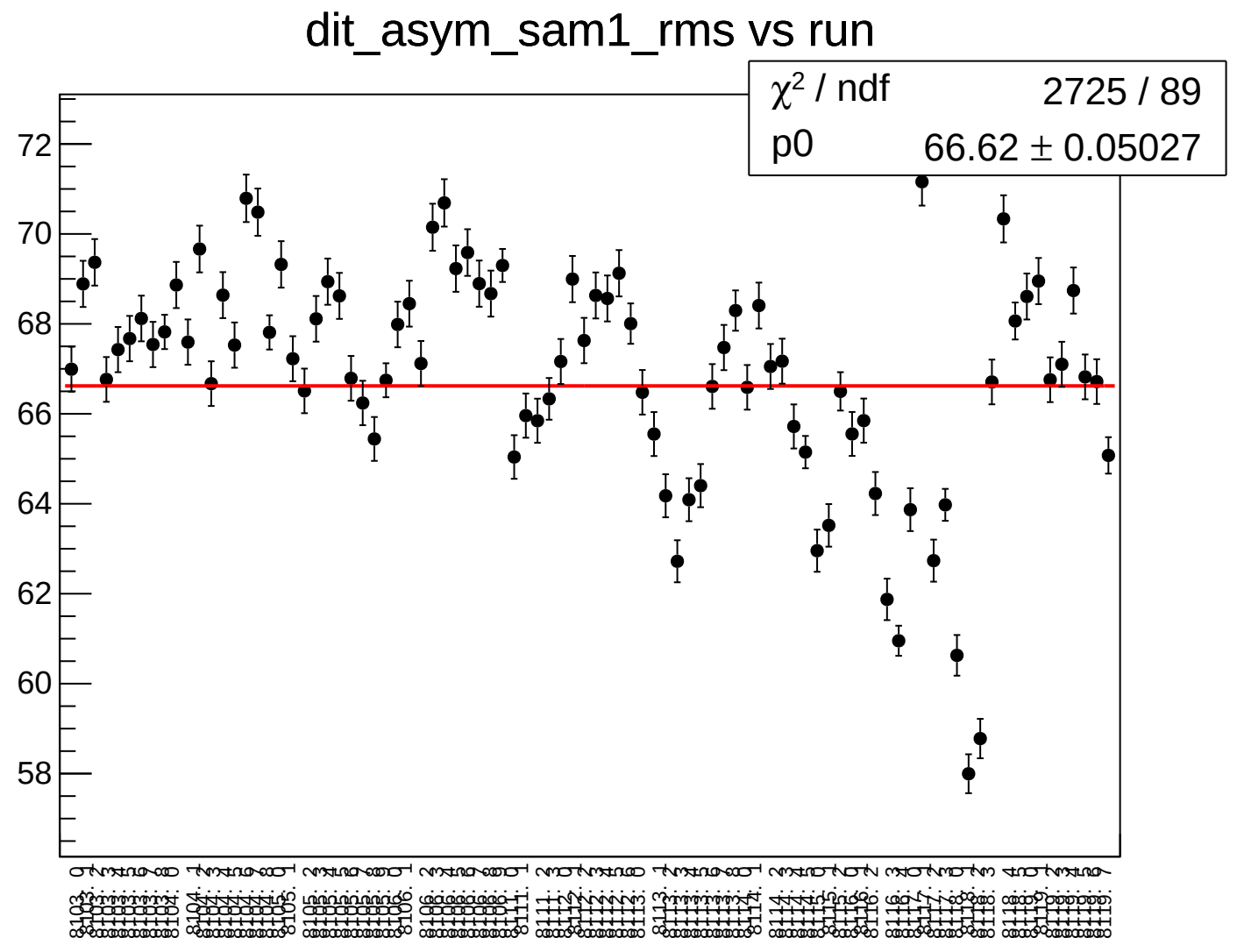

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 66.95 / 89
p0 −808.8 ± 362.8
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 223.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

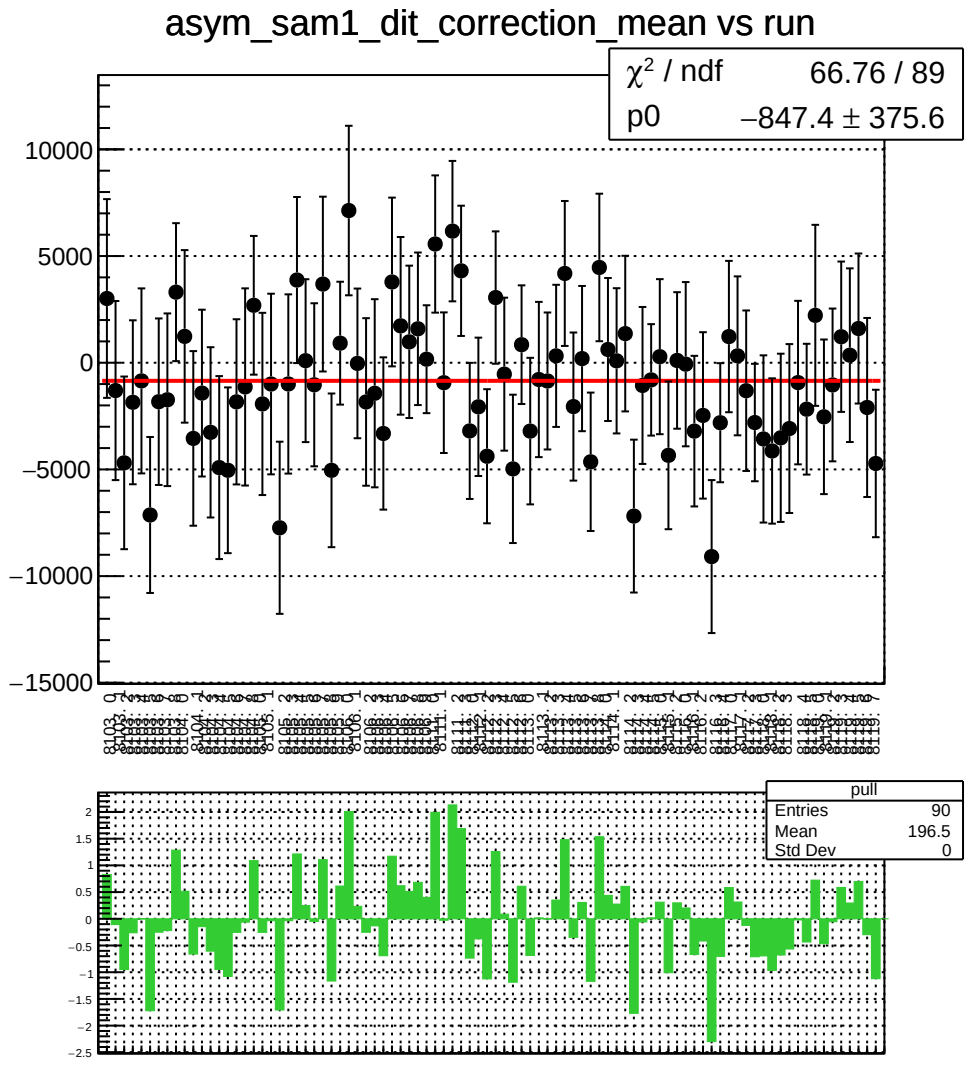

pull1D
Entries 90
Mean −0.009711
Std Dev 0.8624
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

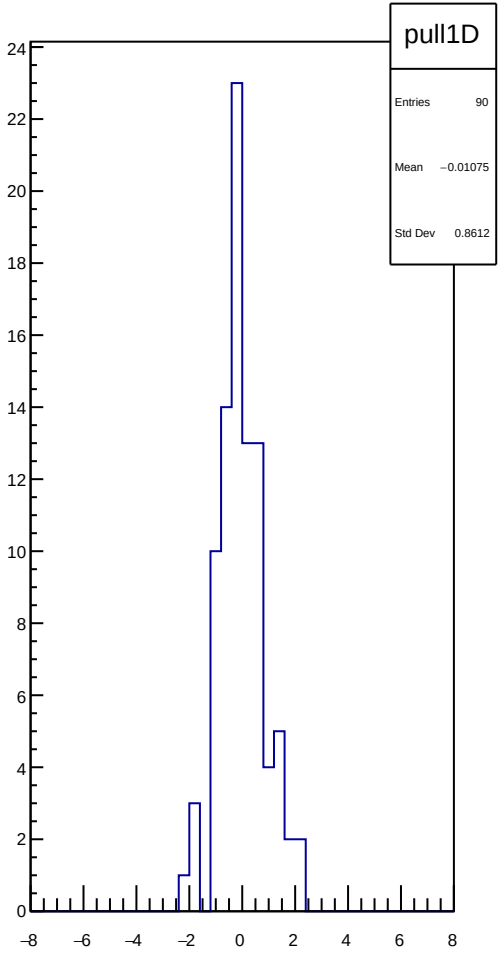

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.656e+04 / 89
p0 338.6 ± 0.2566
440
420
400
380
360
340
320
300
280

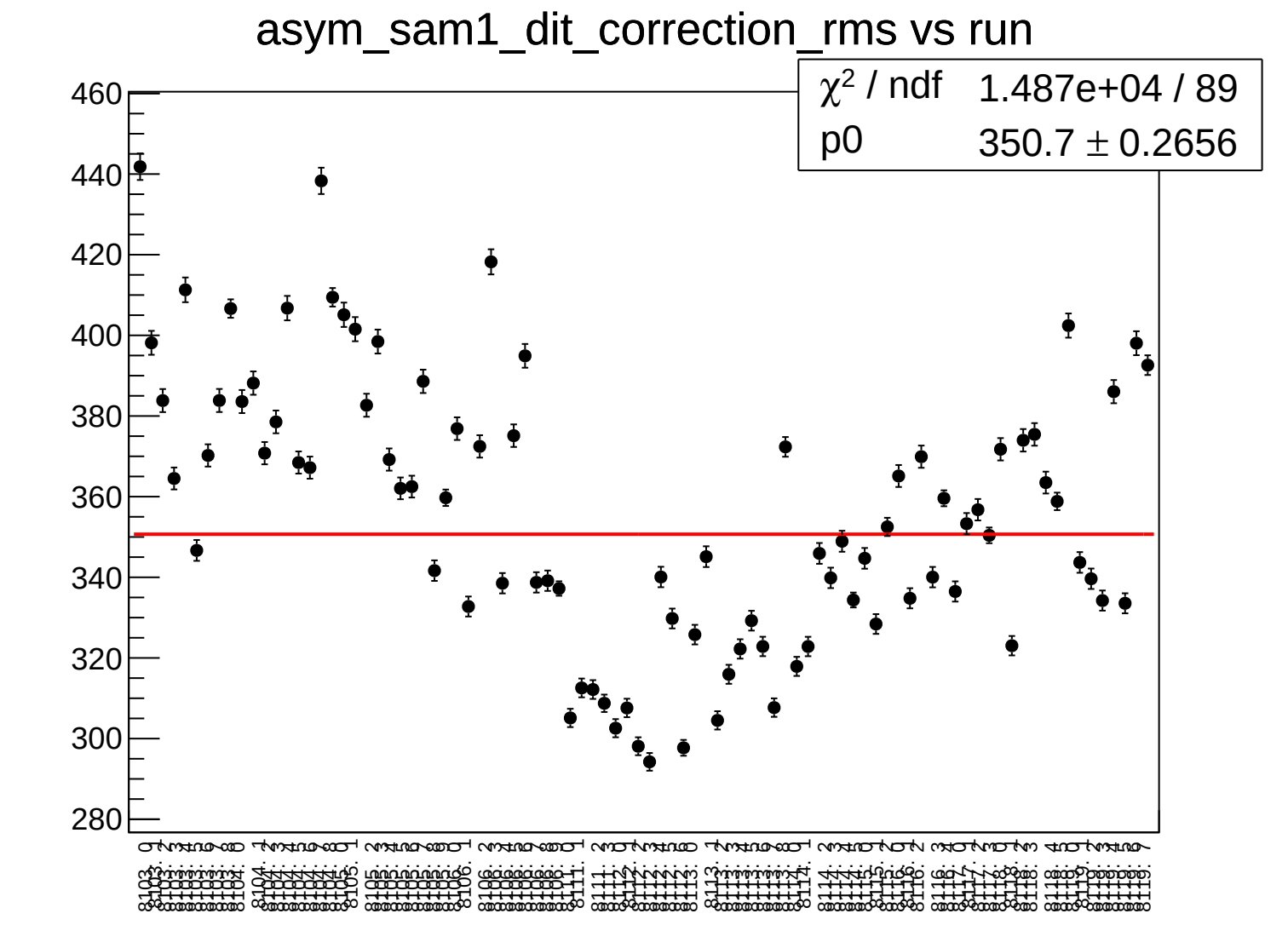

dit_asym_sam1_mean vs run
χ² / ndf 87.05 / 89
p0 −254.1 ± 71.1
pull
Entries 90
Mean −58.2
Std Dev 0

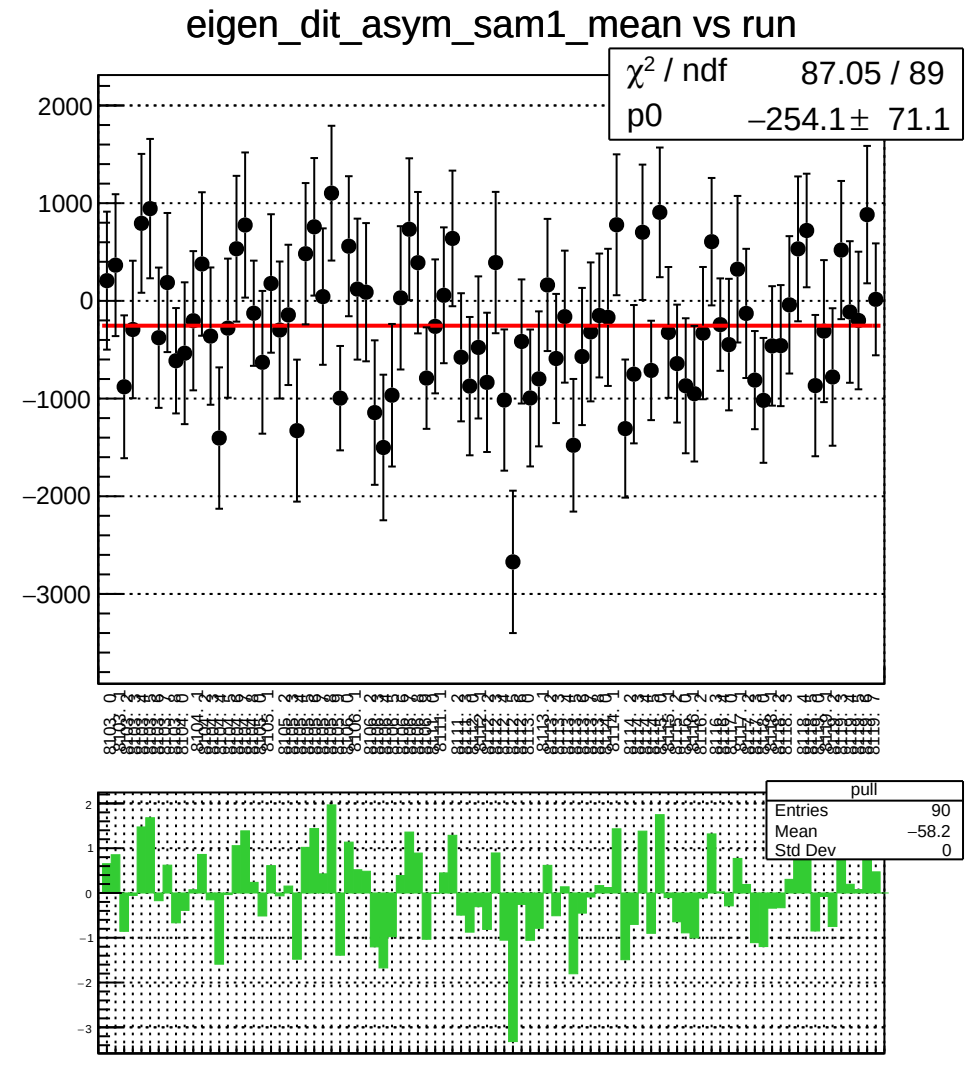

pull1D
Entries 90
Mean 0.01639
Std Dev 0.9833

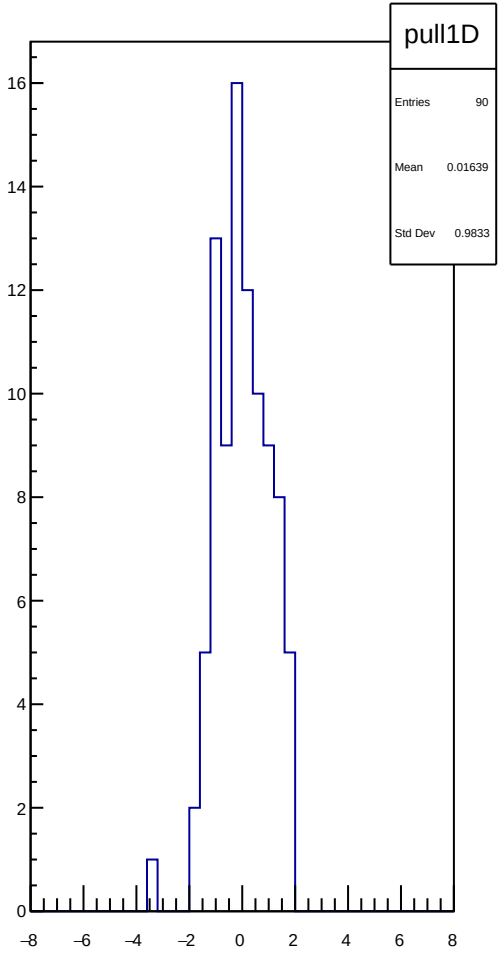

dit_asym_sam1_rms vs run
χ^2 / ndf 2725 / 89
p0 66.62 ± 0.05027
72
70
68
66
64
62
60
58

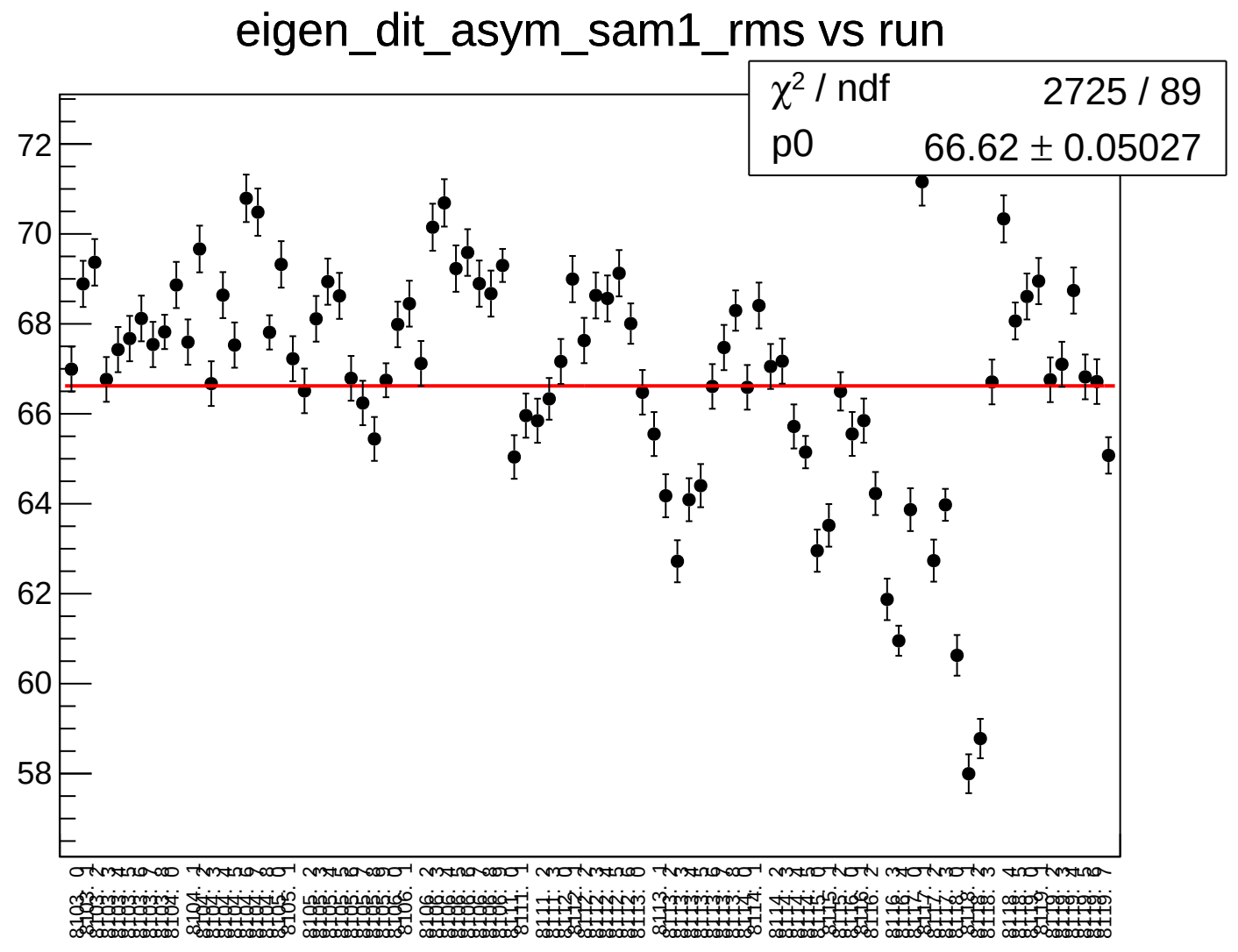

asym_sam1_dit_correction_mean vs run
χ² / ndf 66.76 / 89
p0 −847.4 ± 375.6
pull
Entries 90
Mean 196.5
Std Dev 0

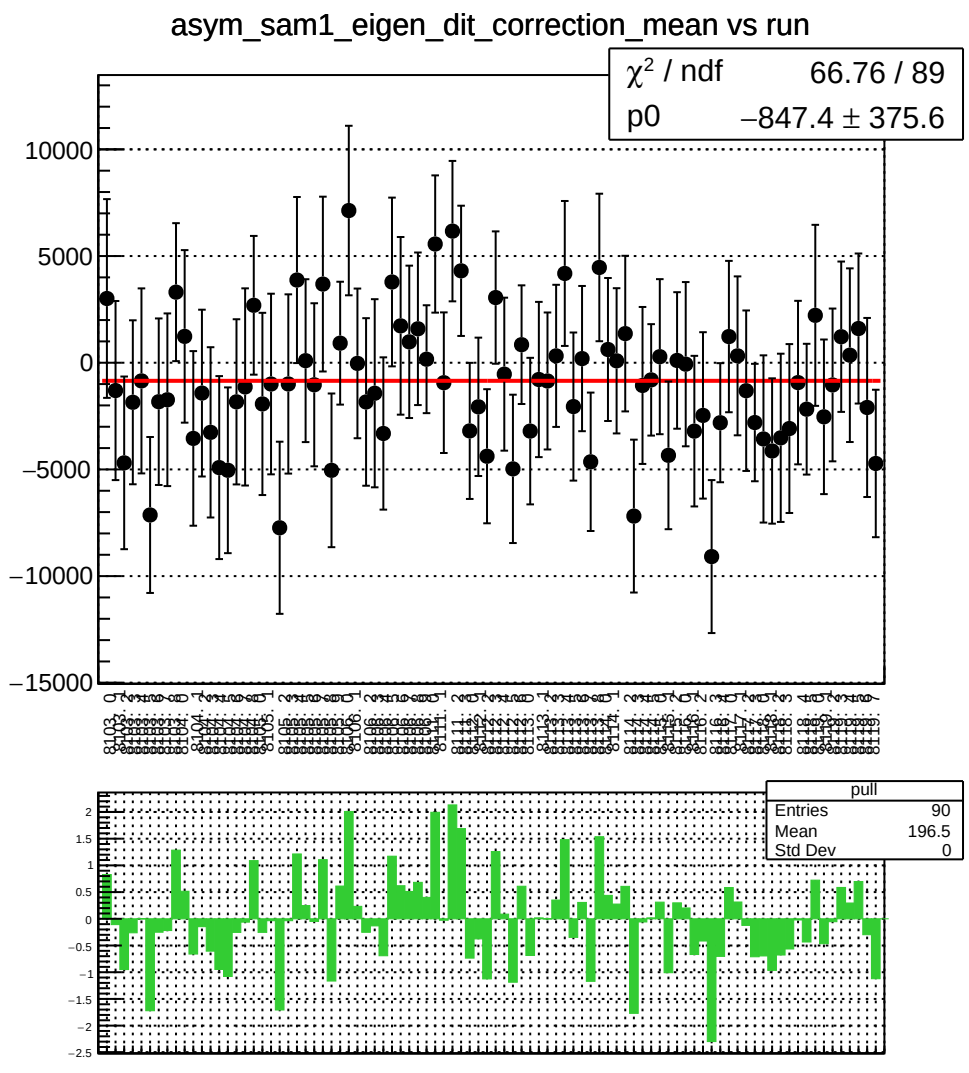

pull1D
Entries 90
Mean −0.01075
Std Dev 0.8612

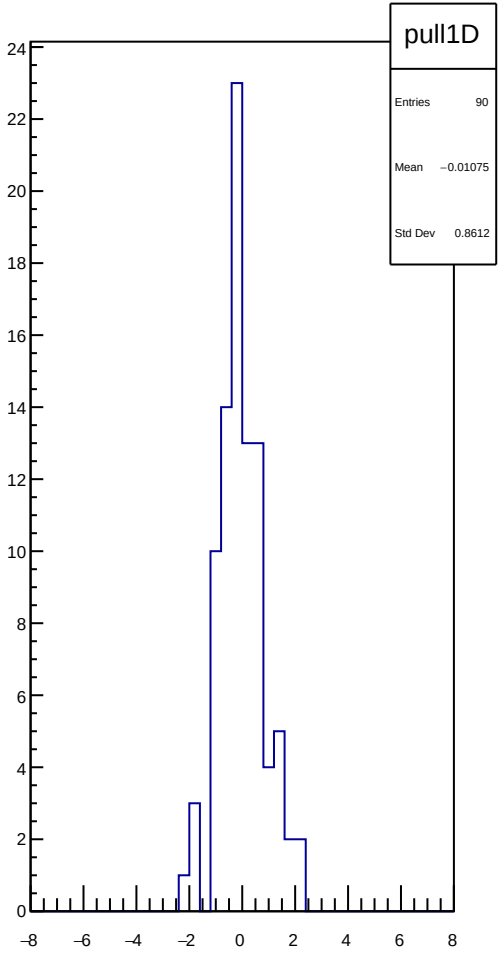

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.487e+04 / 89
p0 350.7 ± 0.2656
460
440
420
400
380
360
340
320
300
280

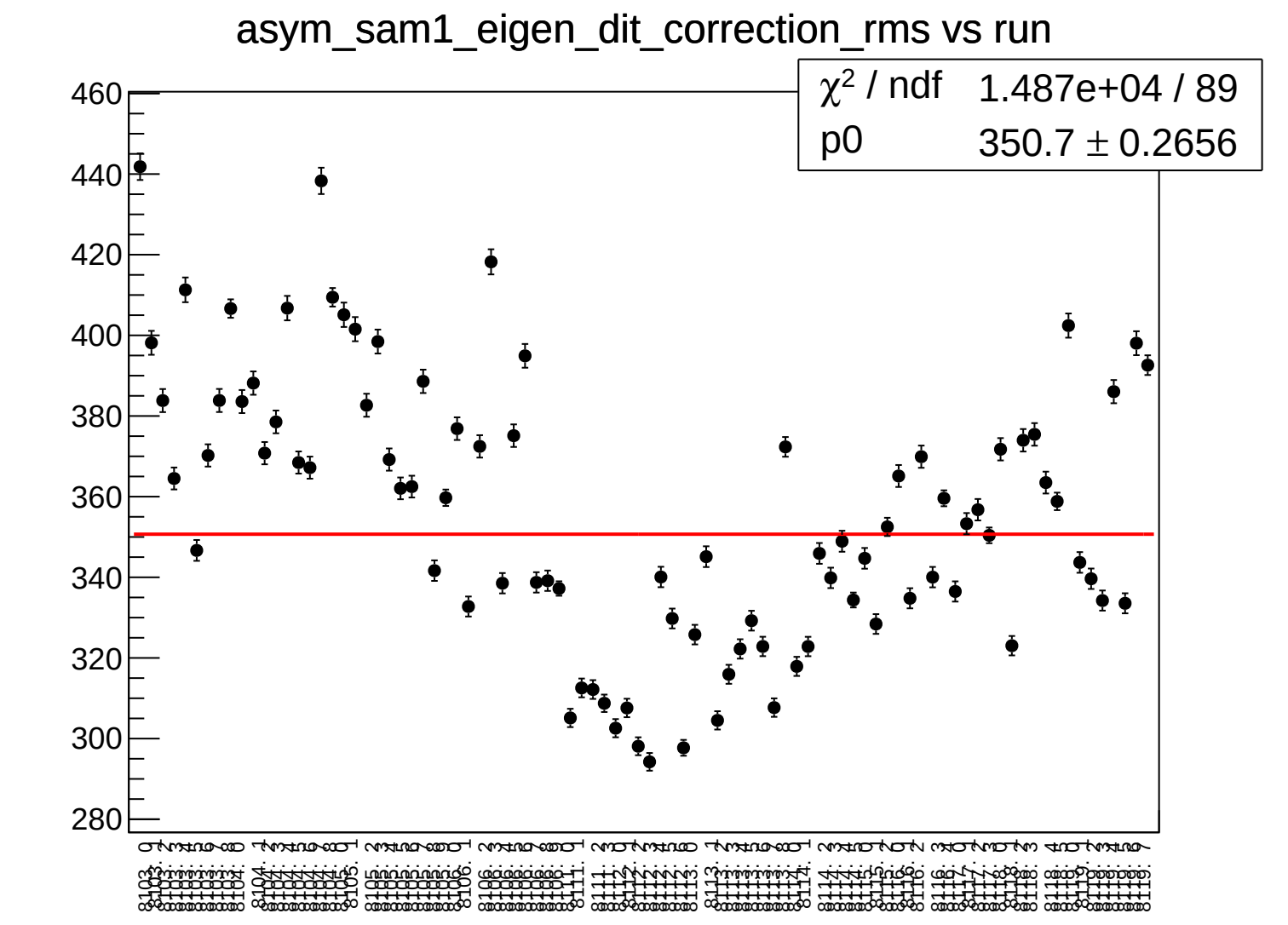

eigen_dit_asym_sam1_mean vs run
χ² / ndf 87.05 / 89
p0 −254.1 ± 71.1
pull
Entries 90
Mean −58.2
Std Dev 0

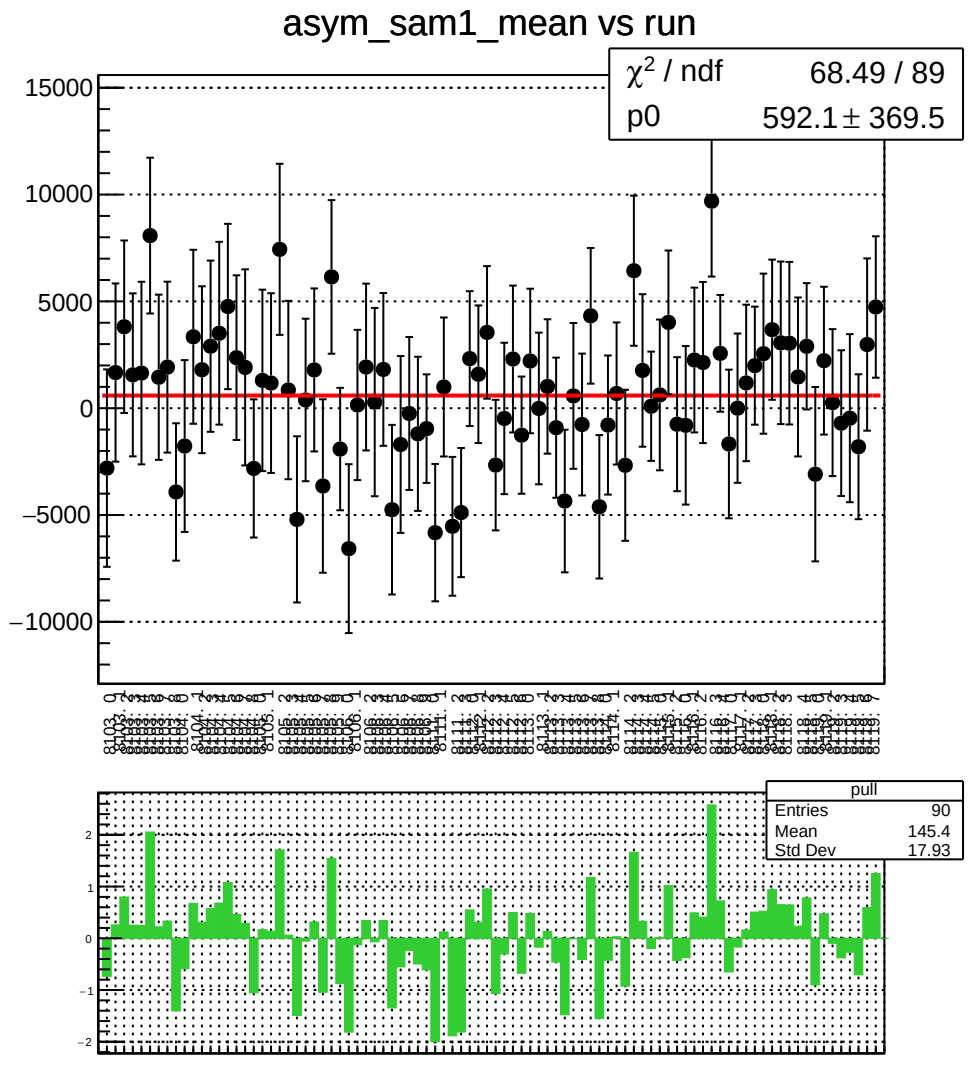

pull1D
Entries 90
Mean 0.01639
Std Dev 0.9833

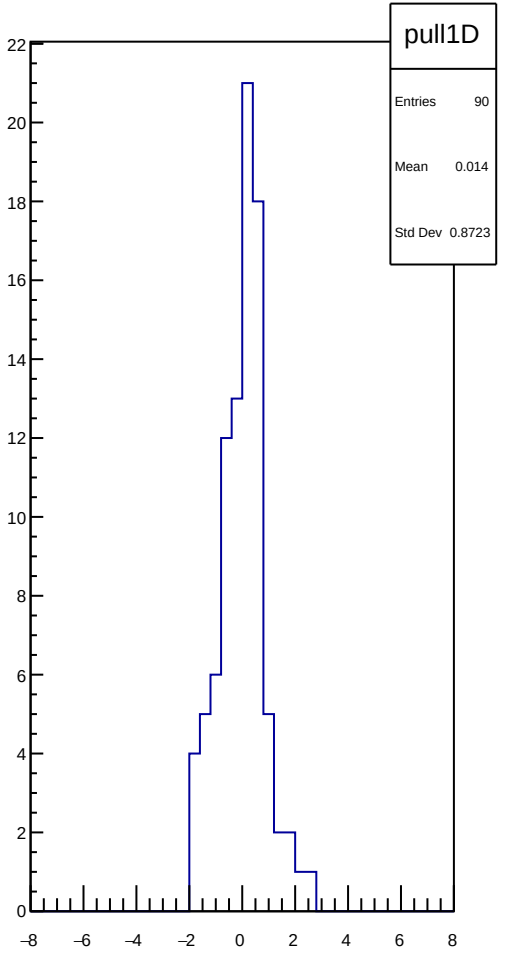

eigen_dit_asym_sam1_rms vs run
χ² / ndf 2725 / 89
p0 66.62 ± 0.05027
72
70
68
66
64
62
60
58

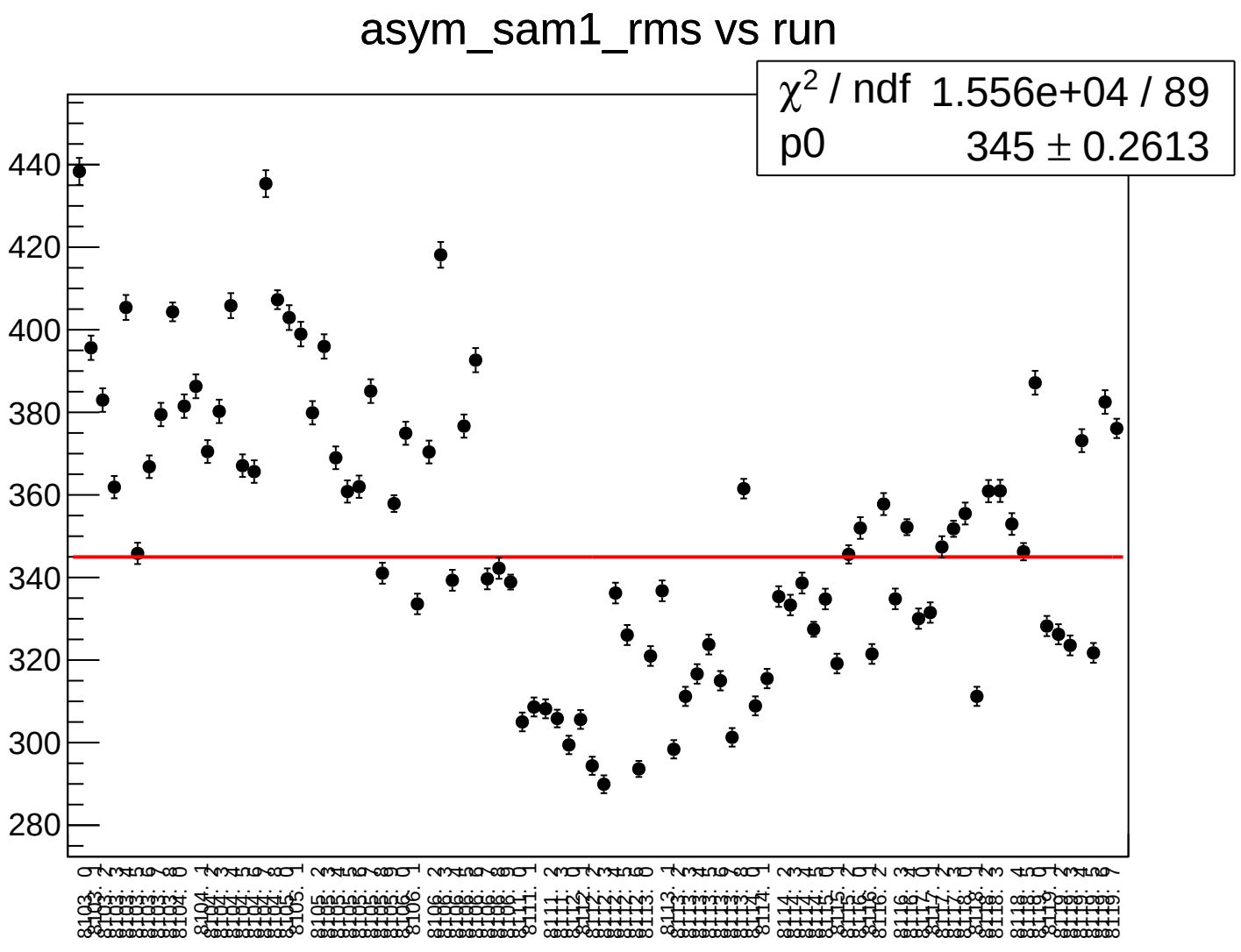

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 66.76 / 89
p0 −847.4 ± 375.6
pull
Entries 90
Mean 196.5
Std Dev 0

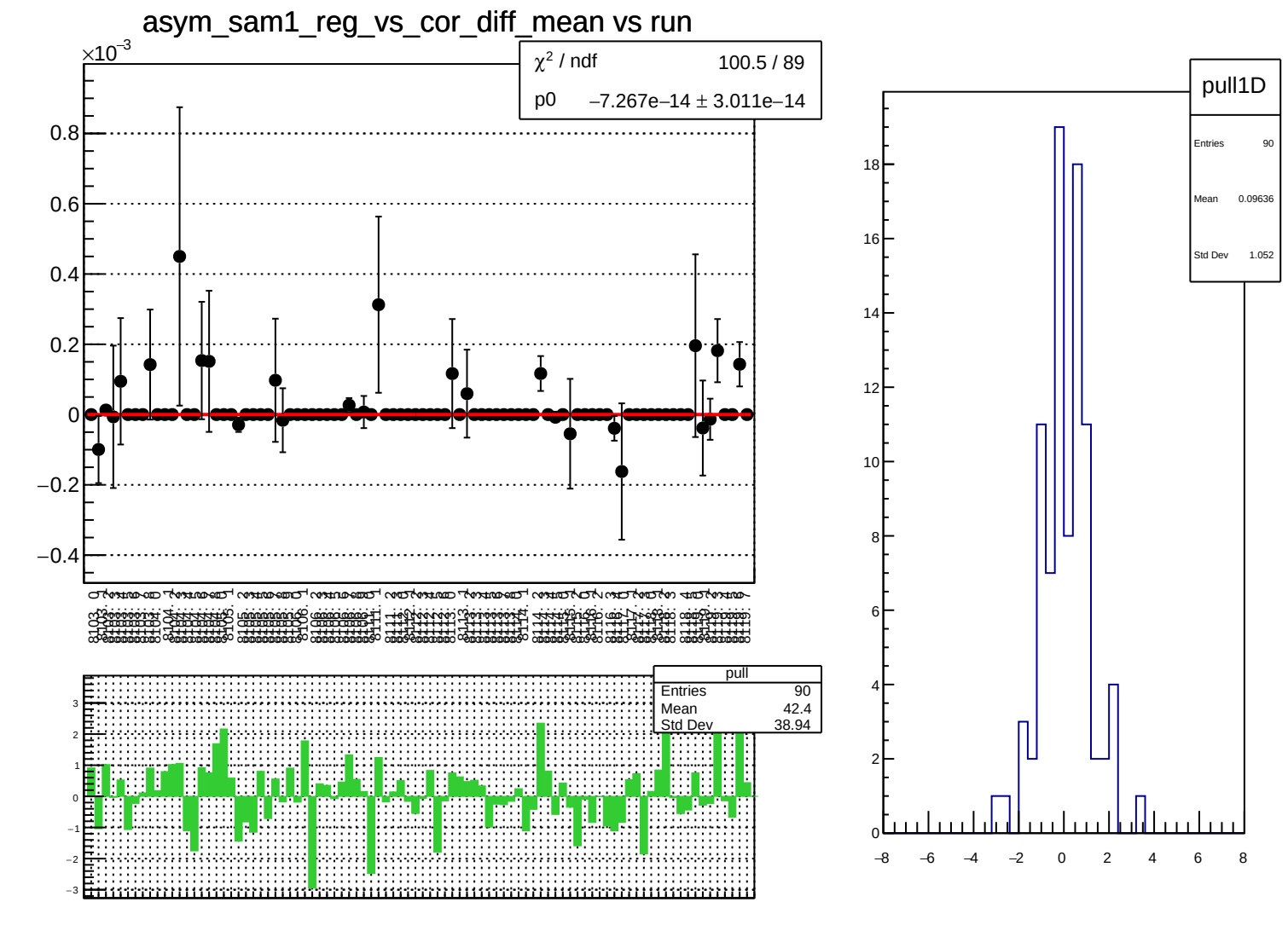

pull1D
Entries 90
Mean −0.01075
Std Dev 0.8612

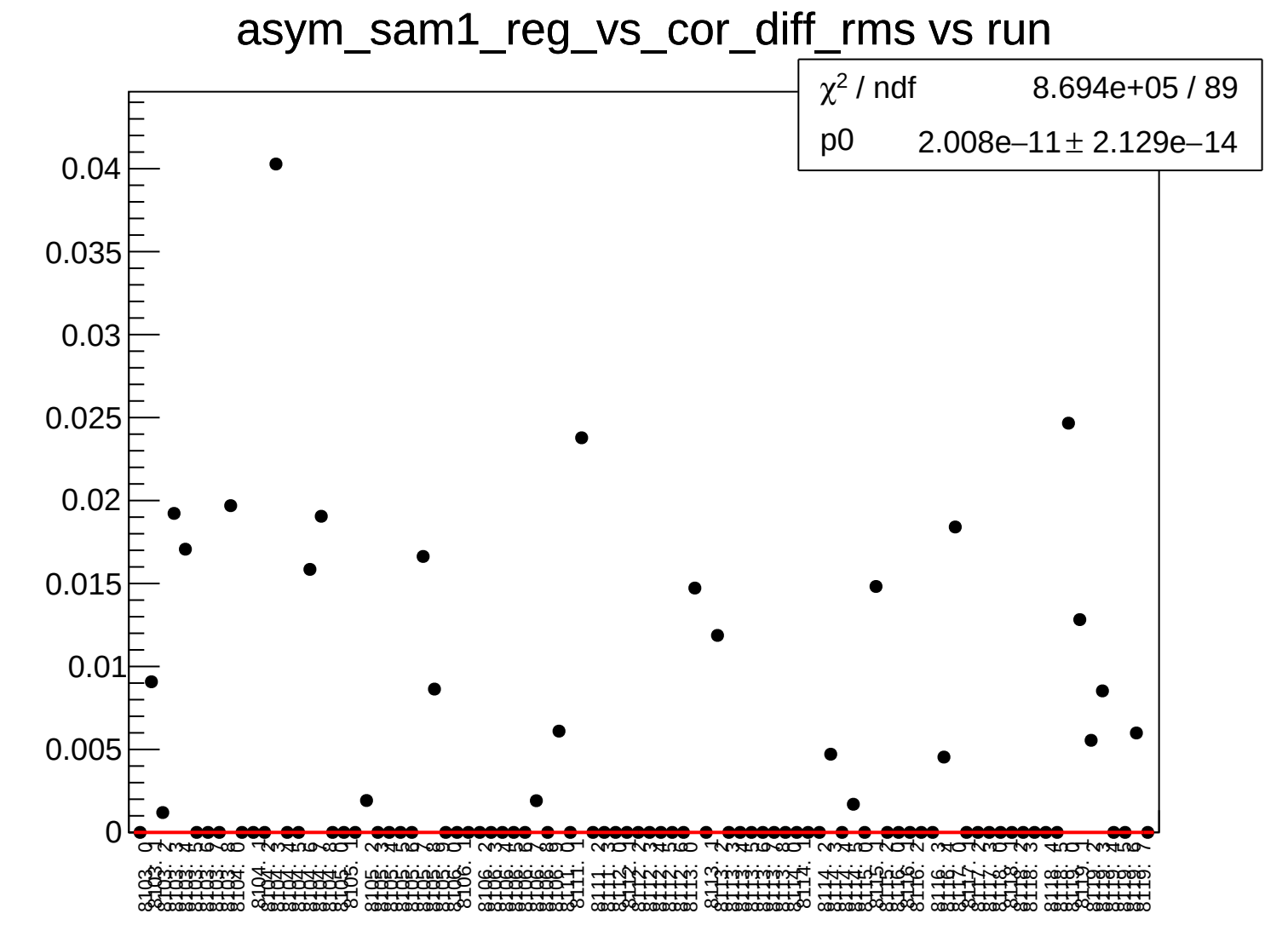

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.487e+04 / 89
p0 350.7 ± 0.2656
460
440
420
400
380
360
340
320
300
280

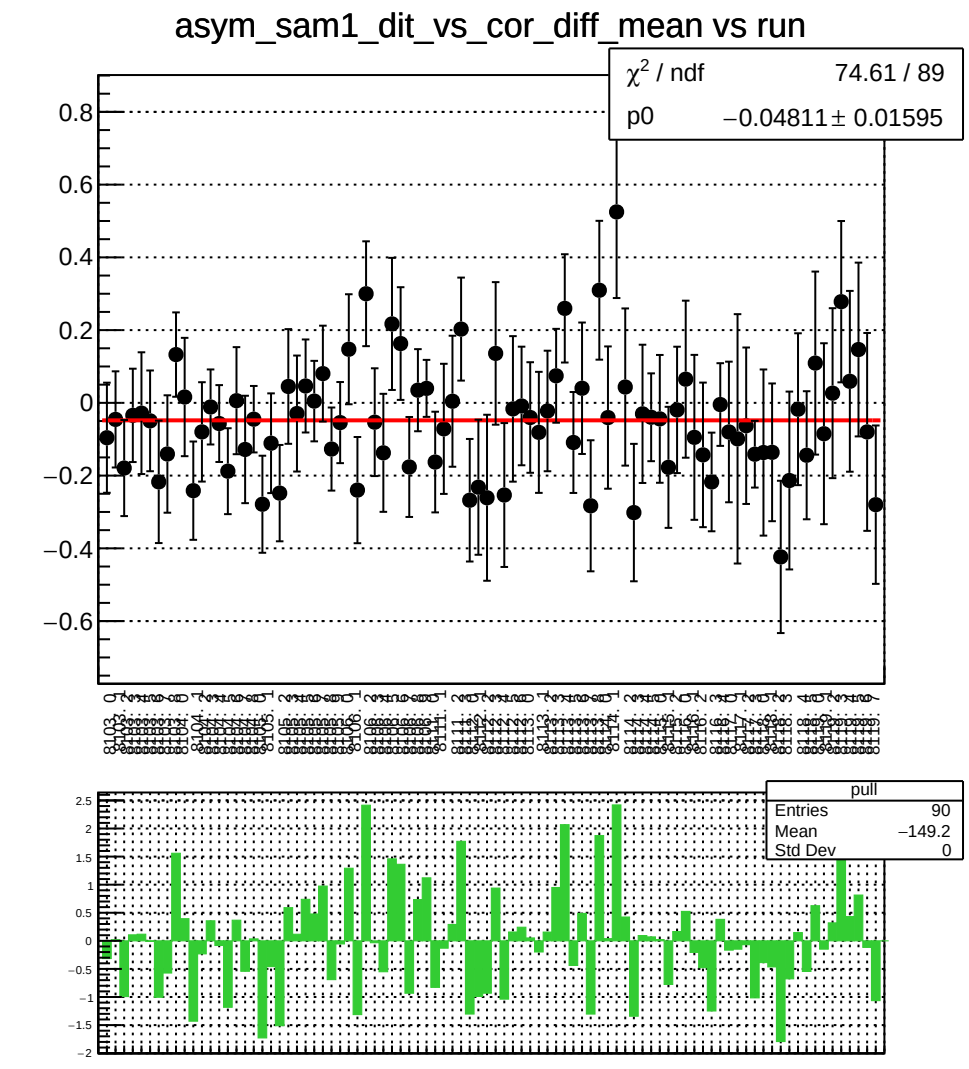

asym_sam1_mean vs run
χ² / ndf 68.49 / 89
p0 592.1 ± 369.5
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 145.4
Std Dev 17.93
2
1
0
−1
−2

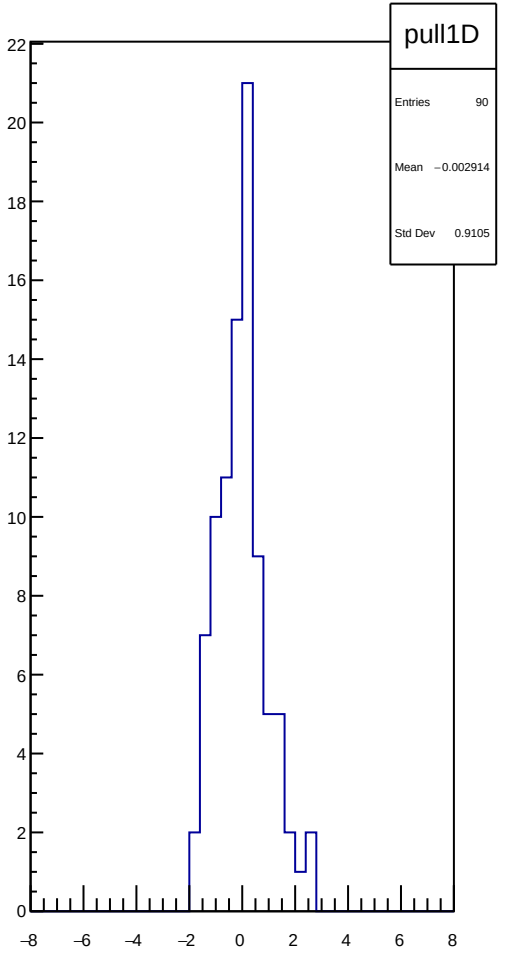

pull1D
Entries 90
Mean 0.014
Std Dev 0.8723
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

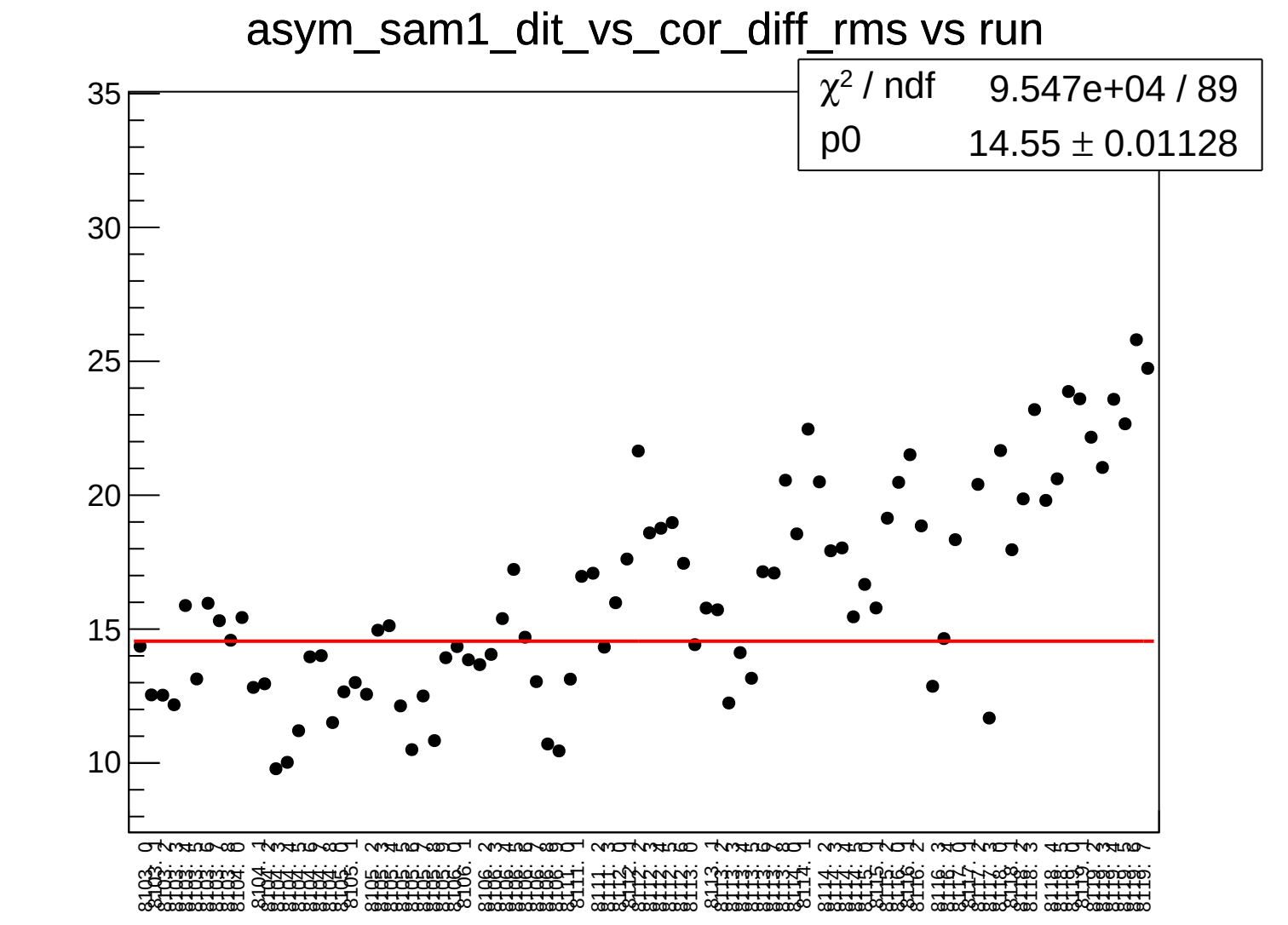

asym_sam1_rms vs run
χ^2 / ndf 1.556e+04 / 89
p0 345 ± 0.2613
440
420
400
380
360
340
320
300
280

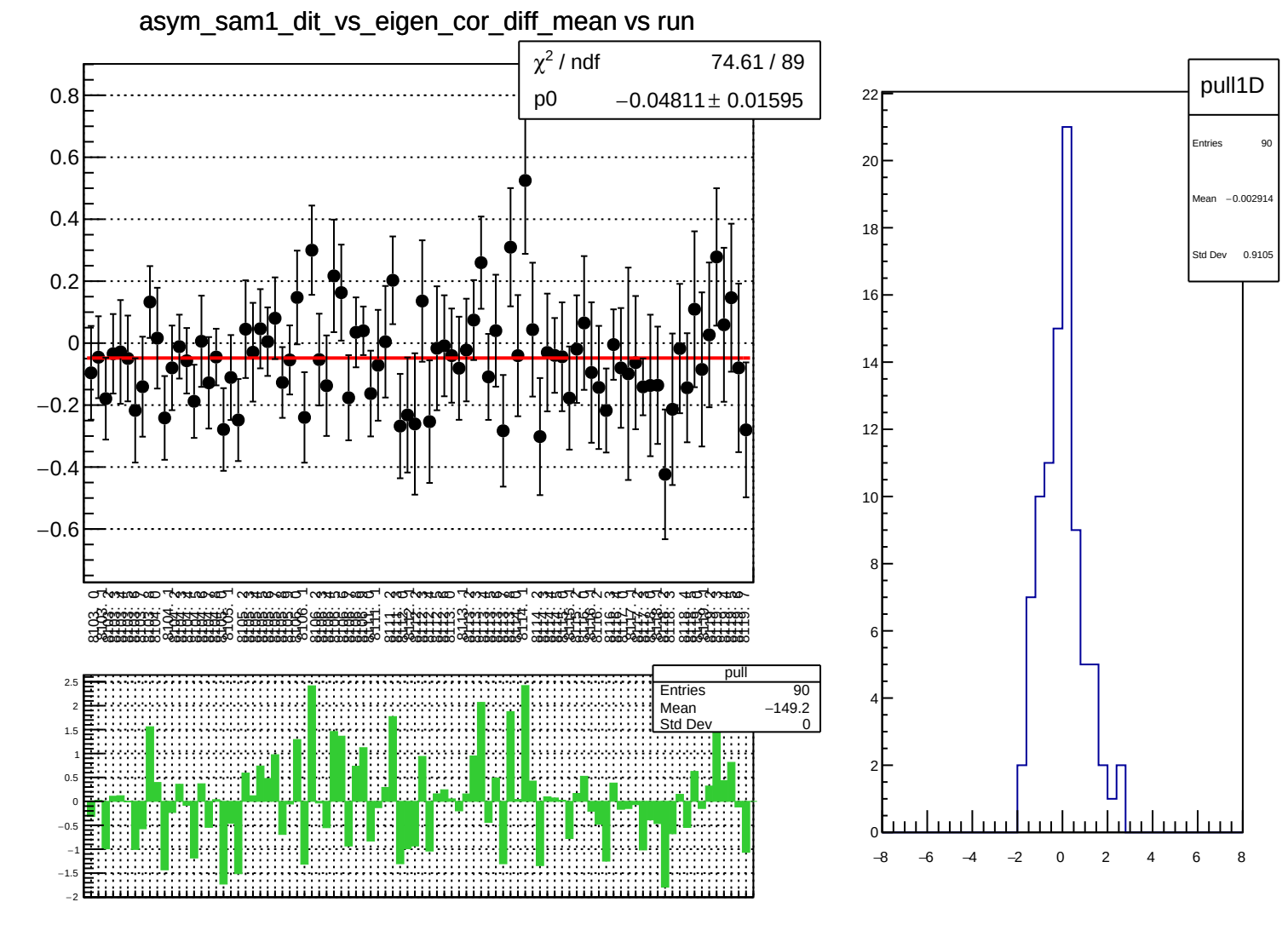

asym_sam1_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 100.5 / 89
p0 −7.267e−14 ± 3.011e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 90
Mean 42.4
Std Dev 38.94
3
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.09636
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

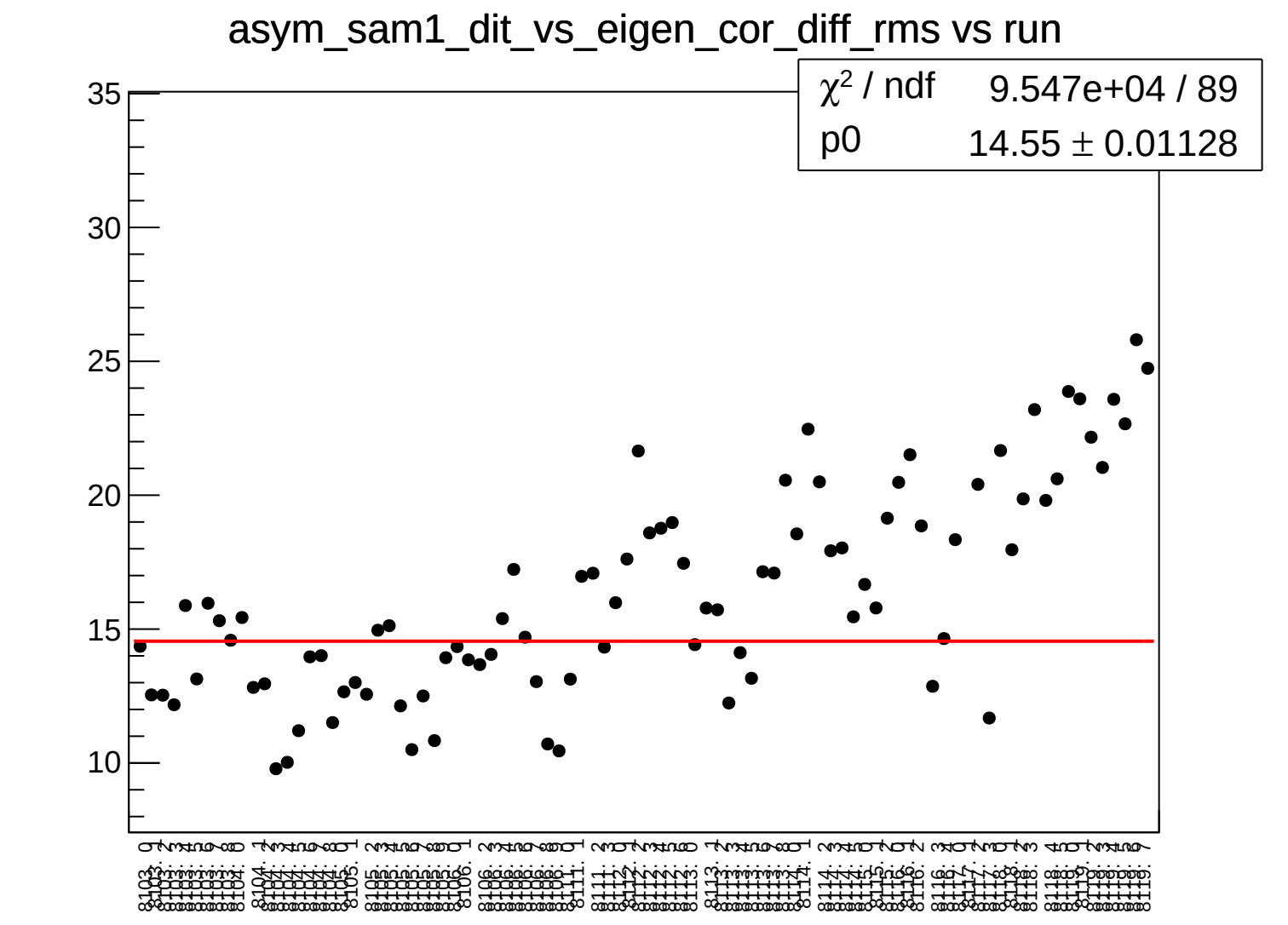

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.694e+05 / 89
p0 2.008e−11 ± 2.129e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

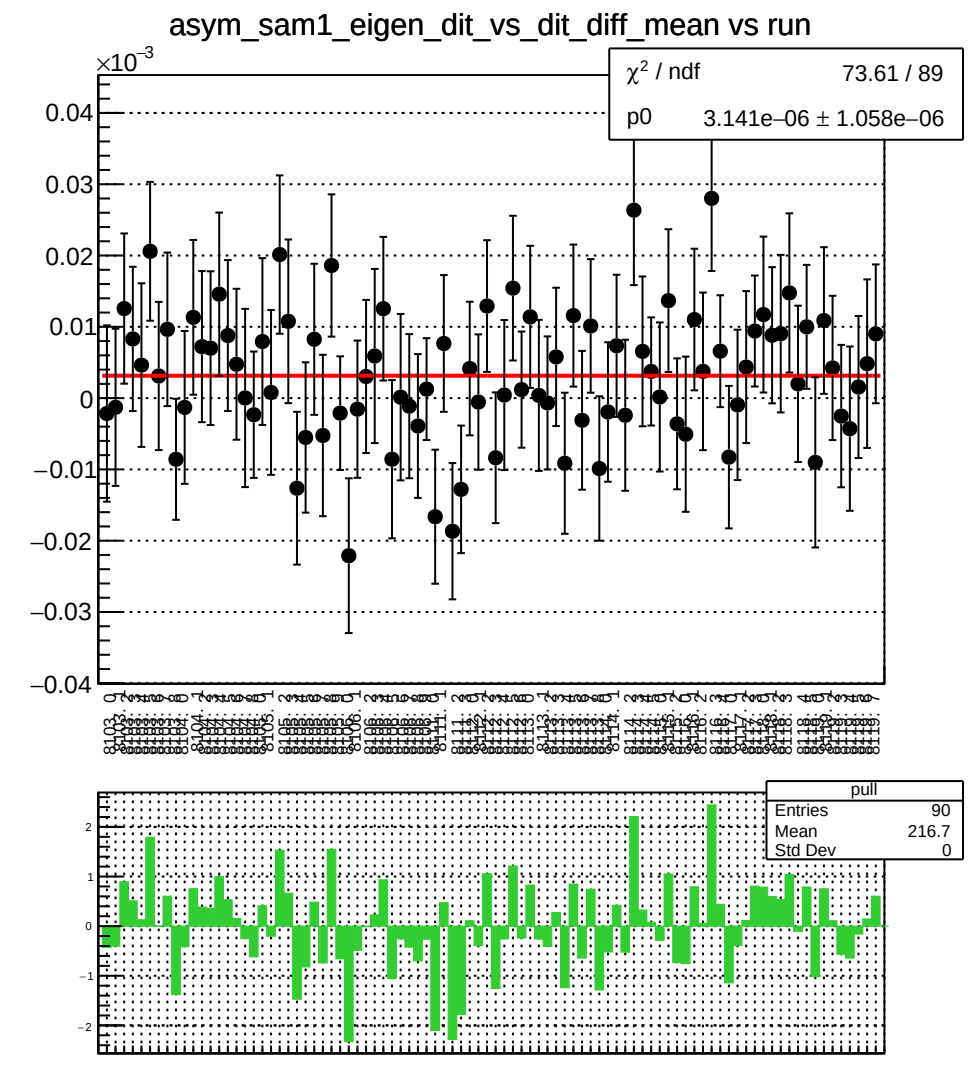

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 74.61 / 89
p0 −0.04811 ± 0.01595
pull
Entries 90
Mean −149.2
Std Dev 0

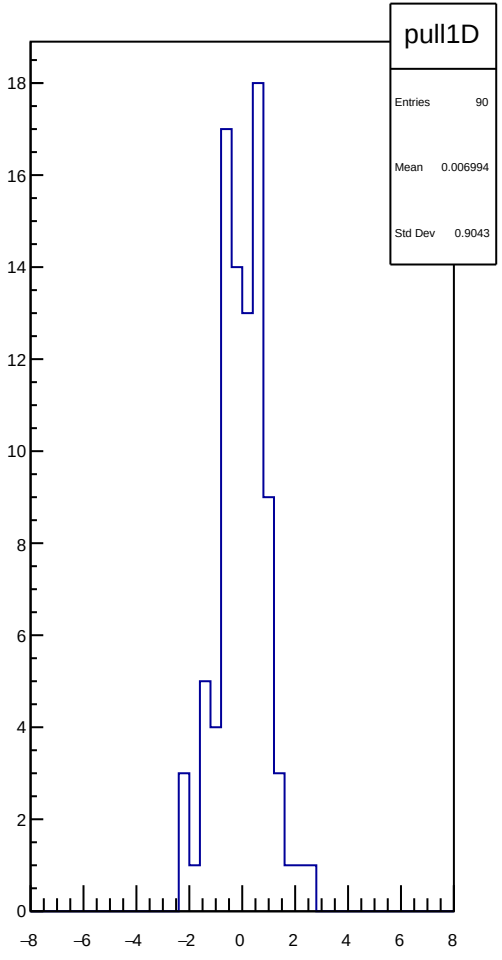

pull1D
Entries 90
Mean −0.002914
Std Dev 0.9105

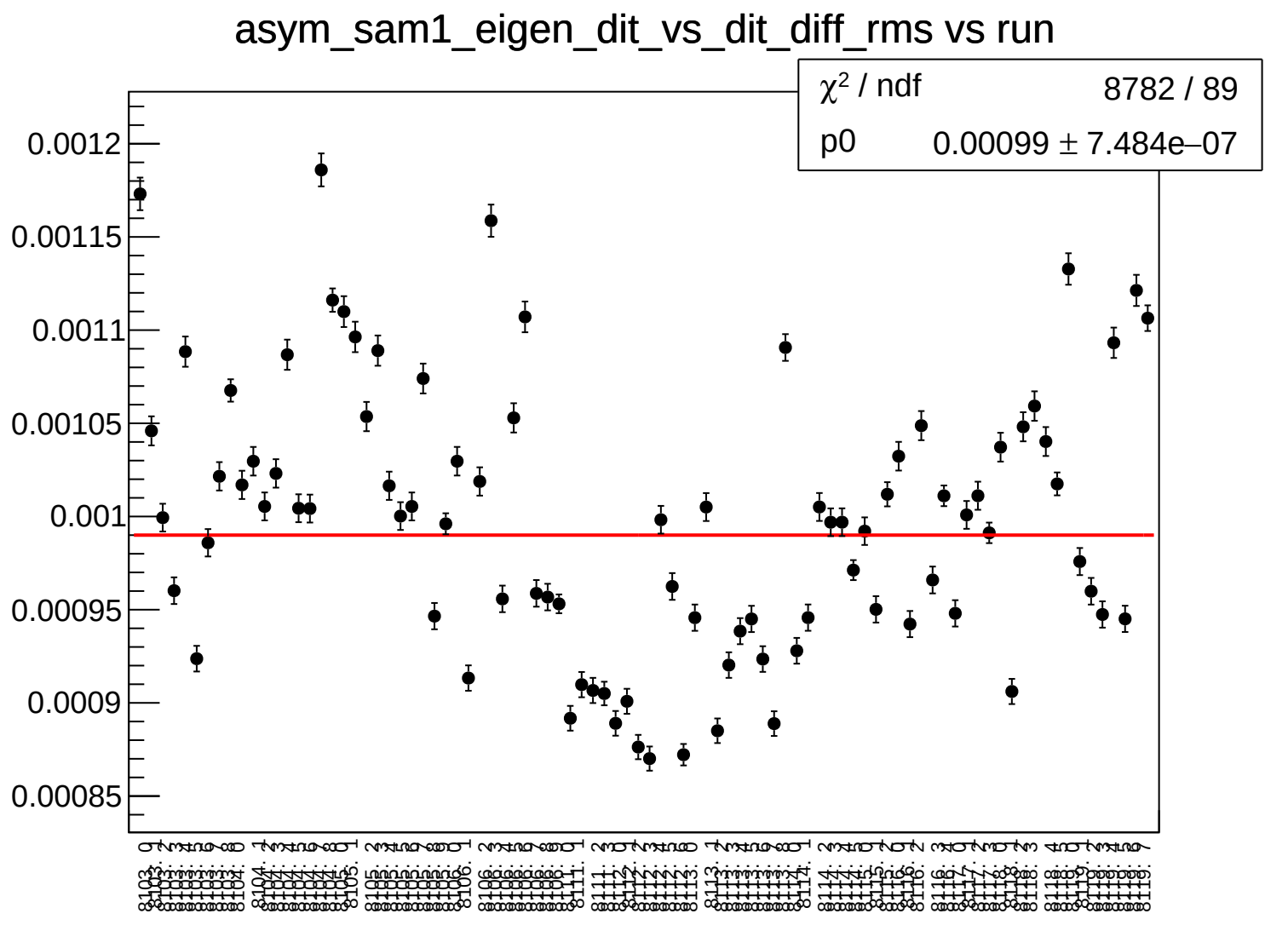

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 9.547e+04 / 89
p0 14.55 ± 0.01128
35
30
25
20
15
10

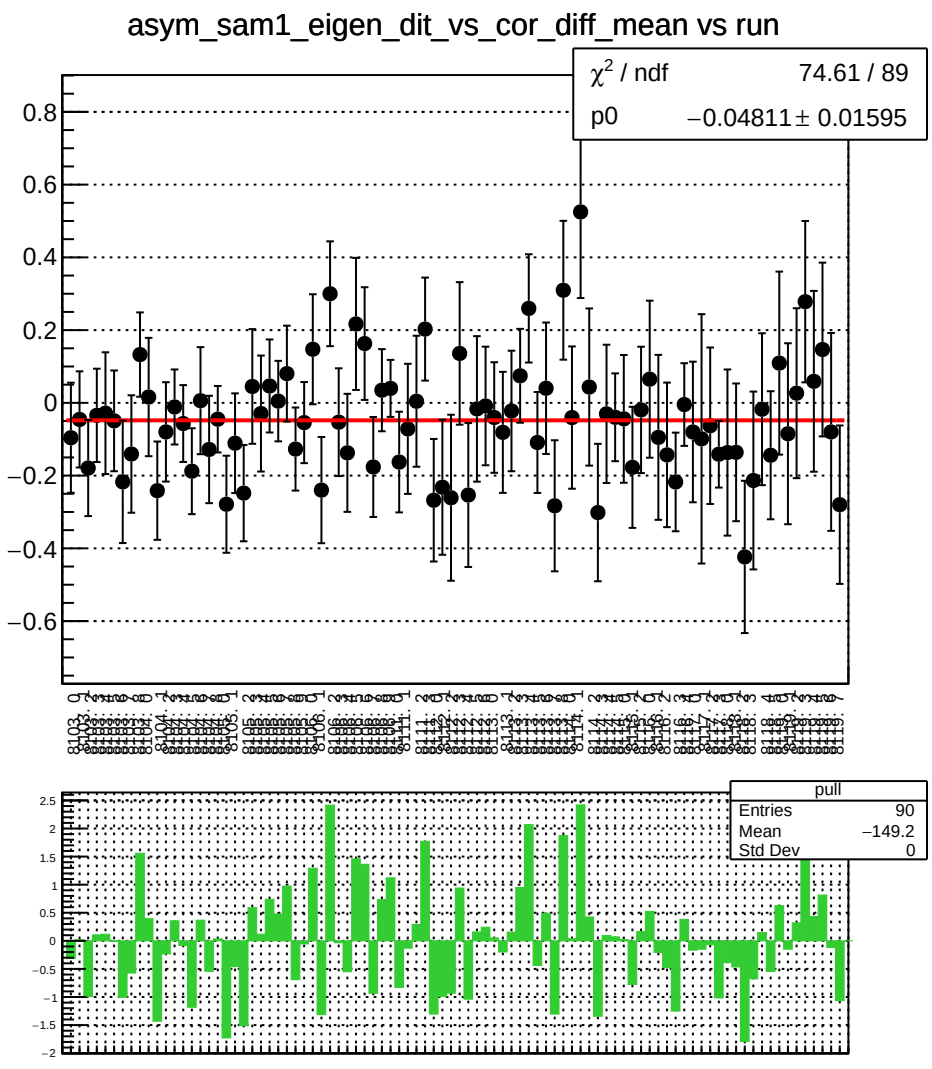

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.61 / 89
p0 −0.04811 ± 0.01595
pull
Entries 90
Mean −149.2
Std Dev 0
pull1D
Entries 90
Mean −0.002914
Std Dev 0.9105

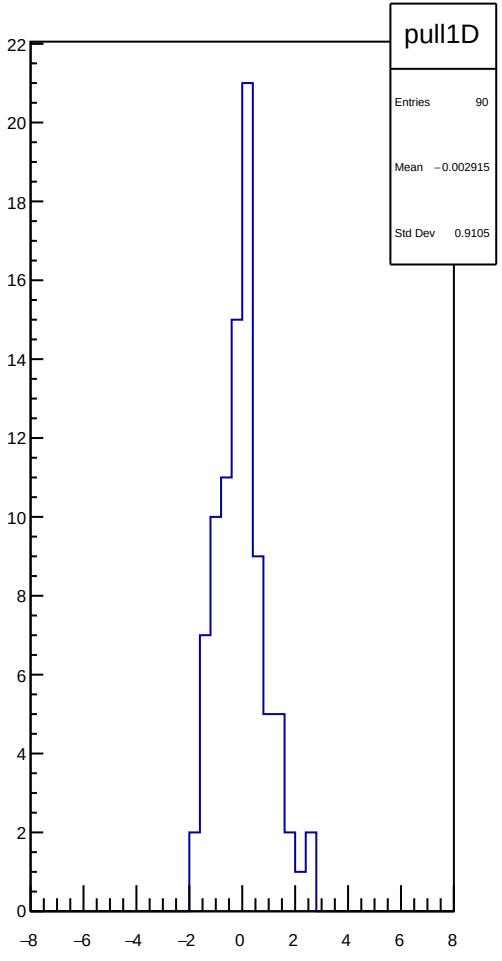

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.547e+04 / 89
p0 14.55 ± 0.01128
35
30
25
20
15
10

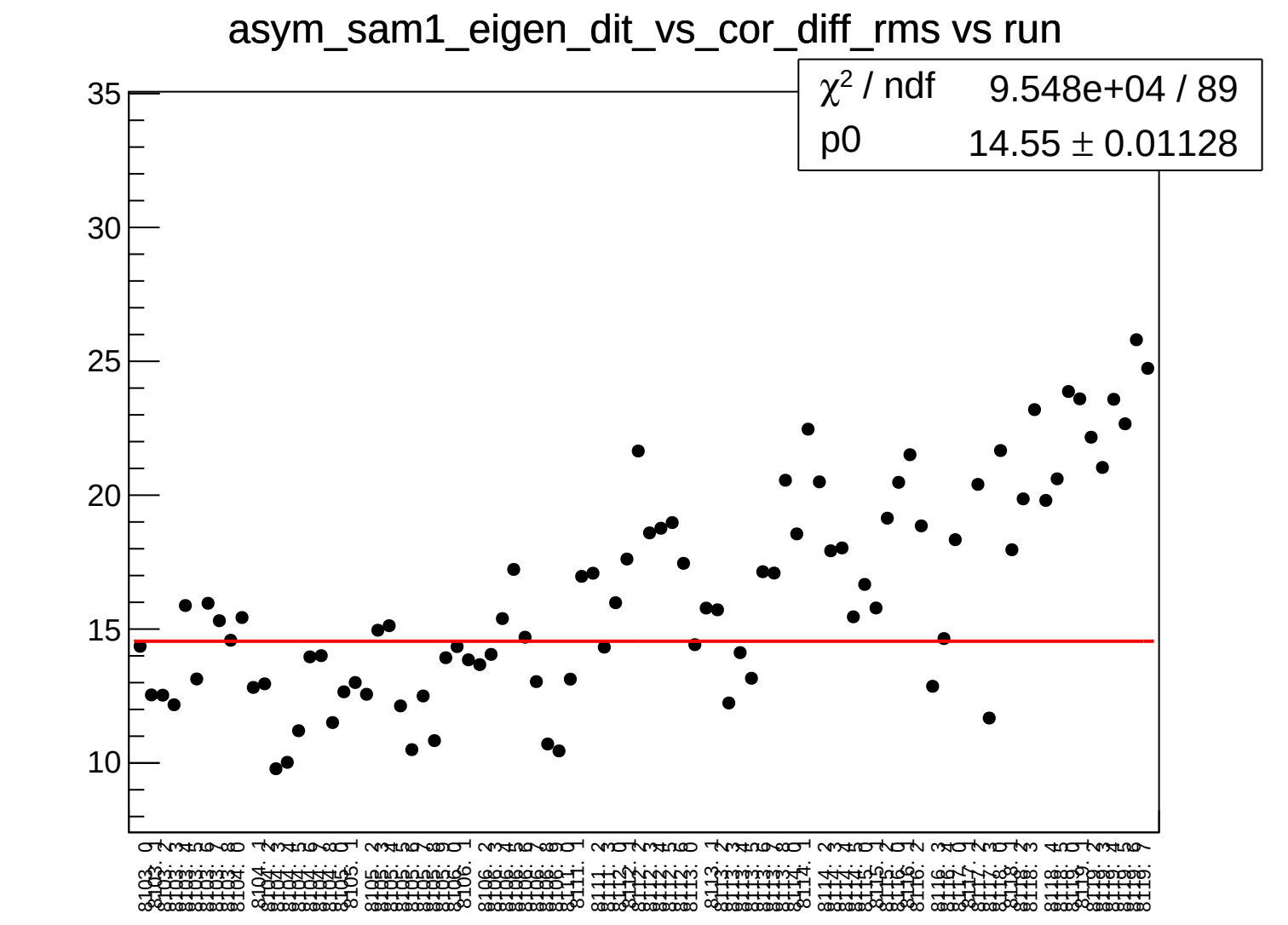

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.61 / 89
p0 3.141e−06 ± 1.058e−06
pull
Entries 90
Mean 216.7
Std Dev 0

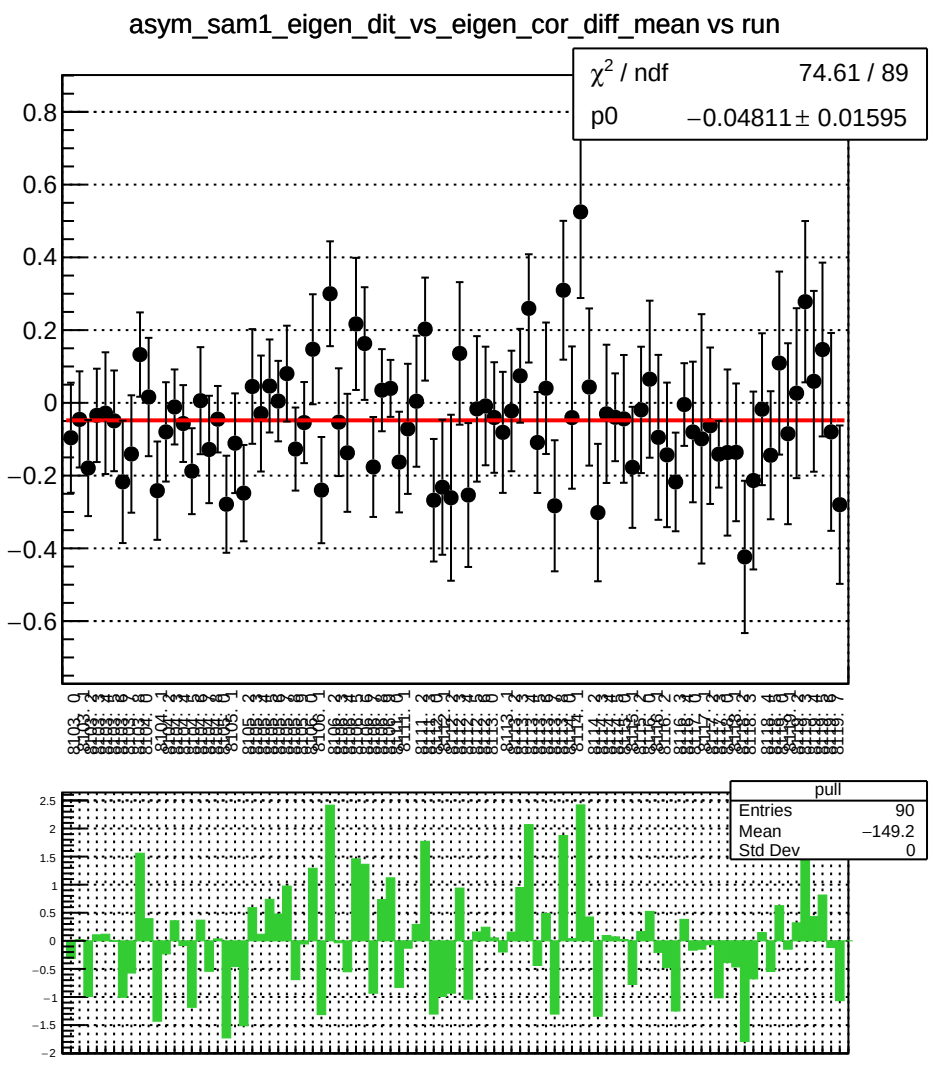

pull1D
Entries 90
Mean 0.006994
Std Dev 0.9043

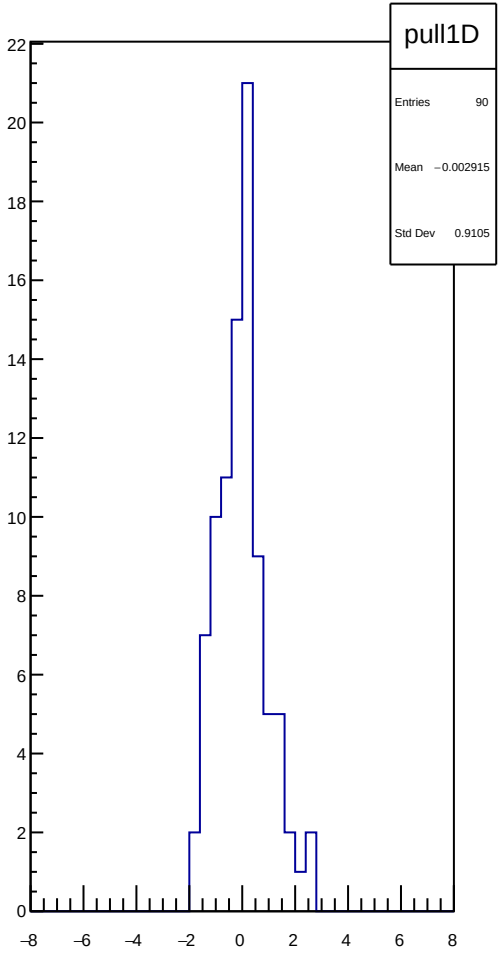

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8782 / 89
p0 0.00099 ± 7.484e–07
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
0.00085

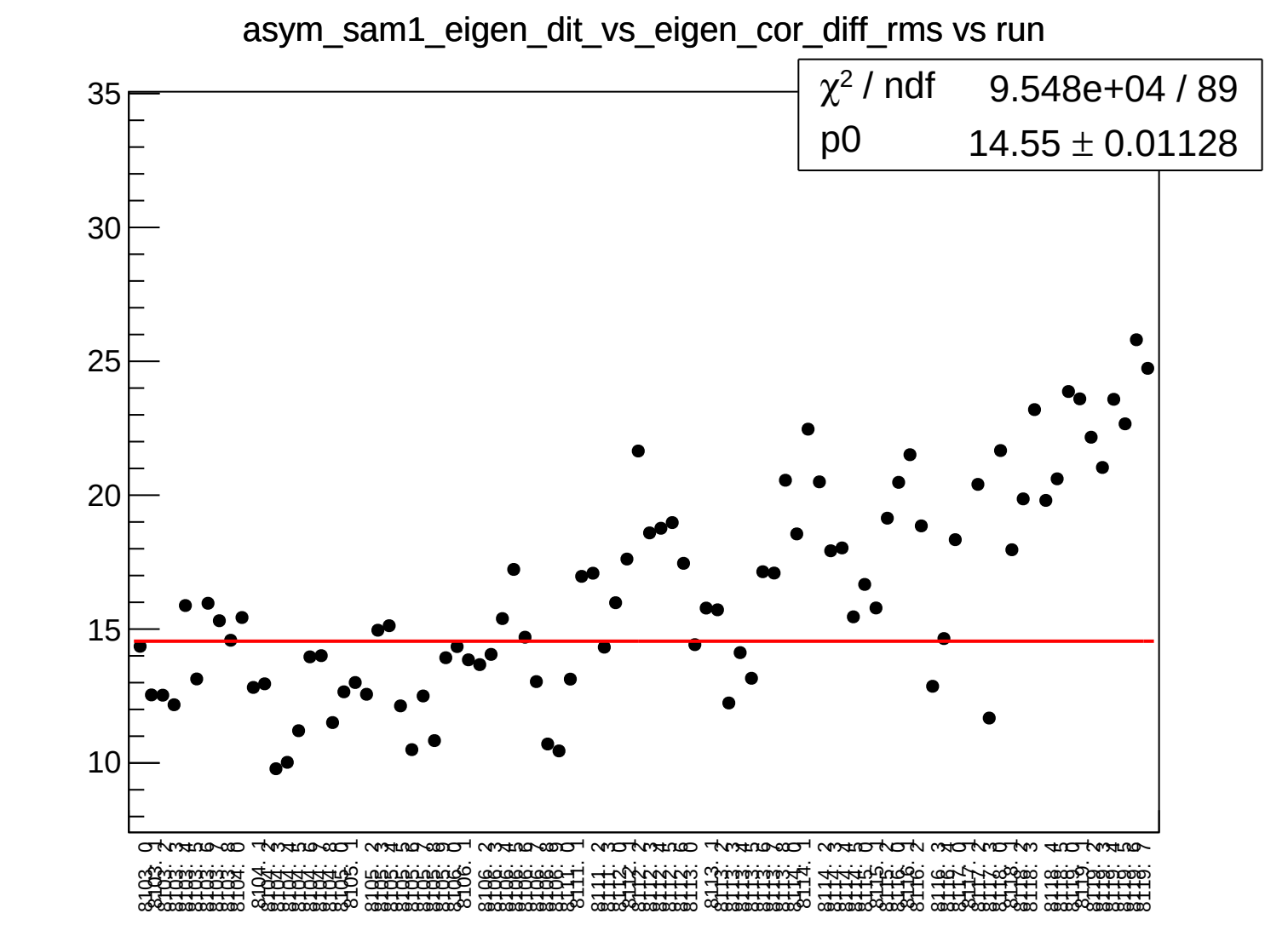

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.61 / 89
p0 −0.04811 ± 0.01595
pull
Entries 90
Mean −149.2
Std Dev 0

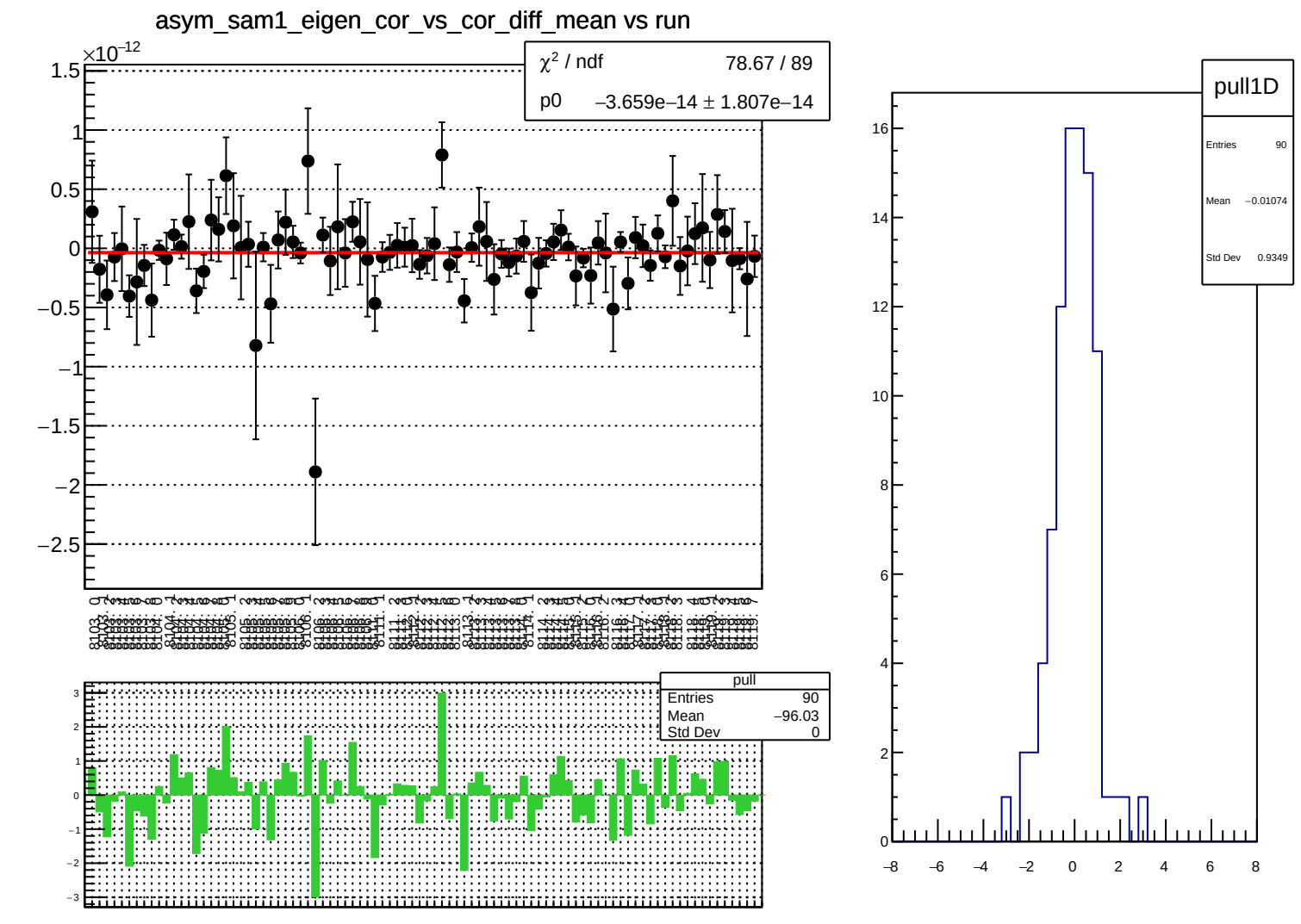

pull1D
Entries 90
Mean −0.002915
Std Dev 0.9105

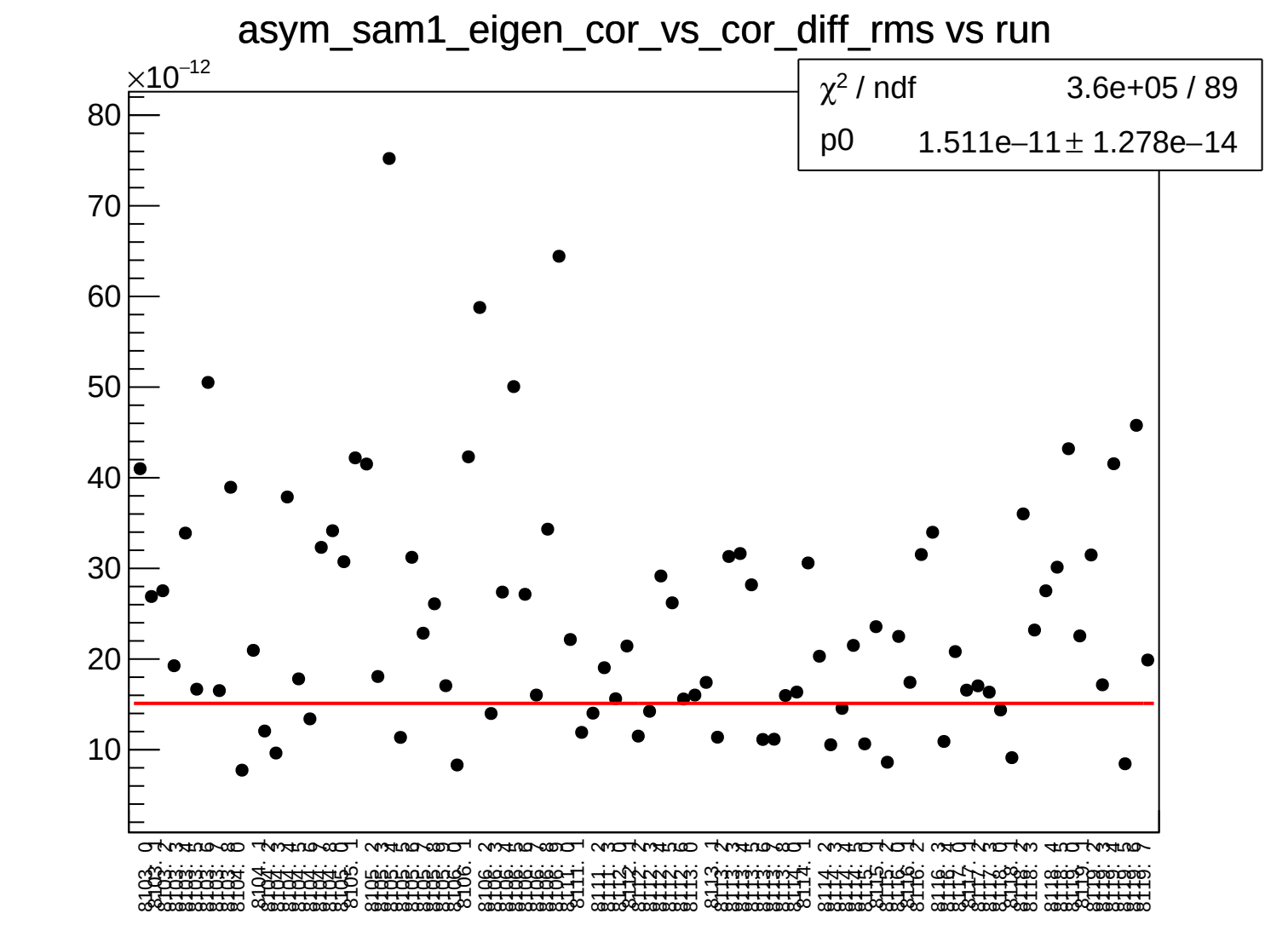

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.548e+04 / 89
p0 14.55 ± 0.01128
35
30
25
20
15
10

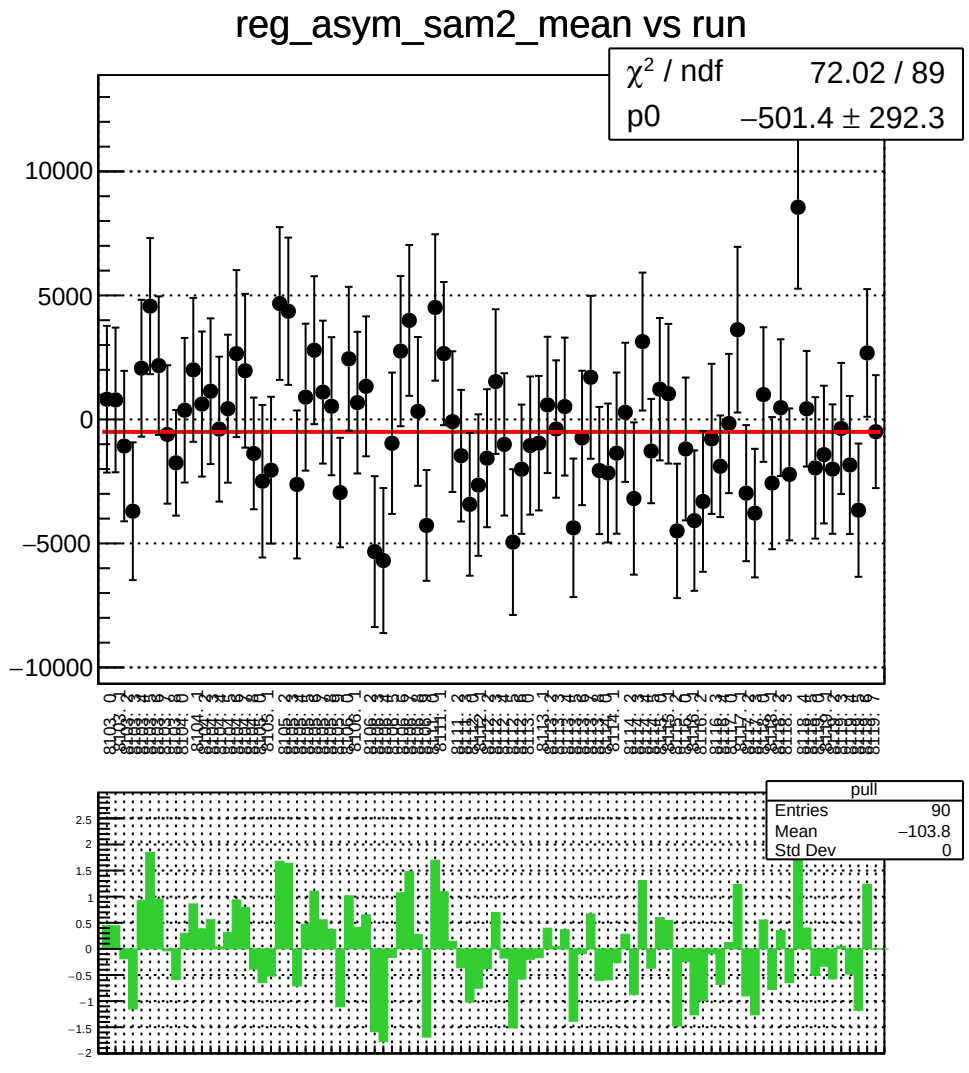

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.61 / 89
p0 −0.04811 ± 0.01595
pull
Entries 90
Mean −149.2
Std Dev 0

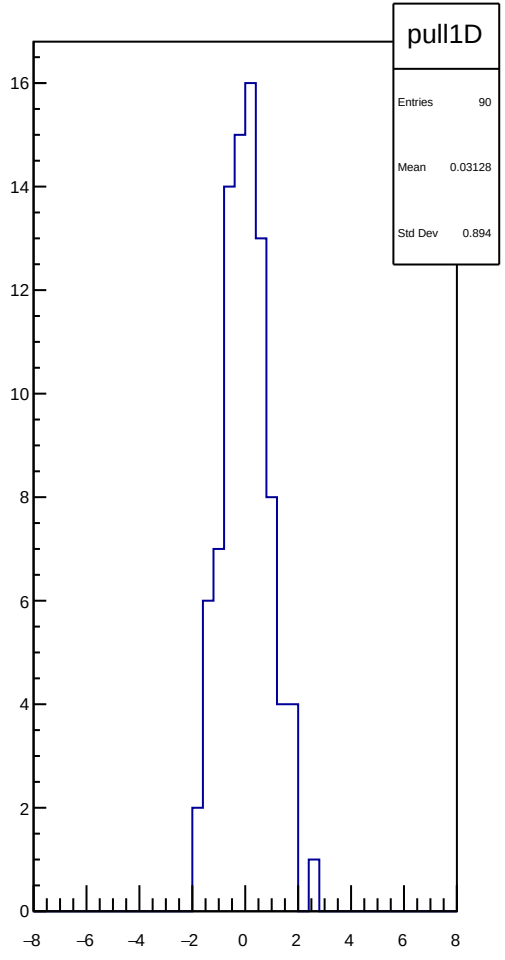

pull1D
Entries 90
Mean −0.002915
Std Dev 0.9105

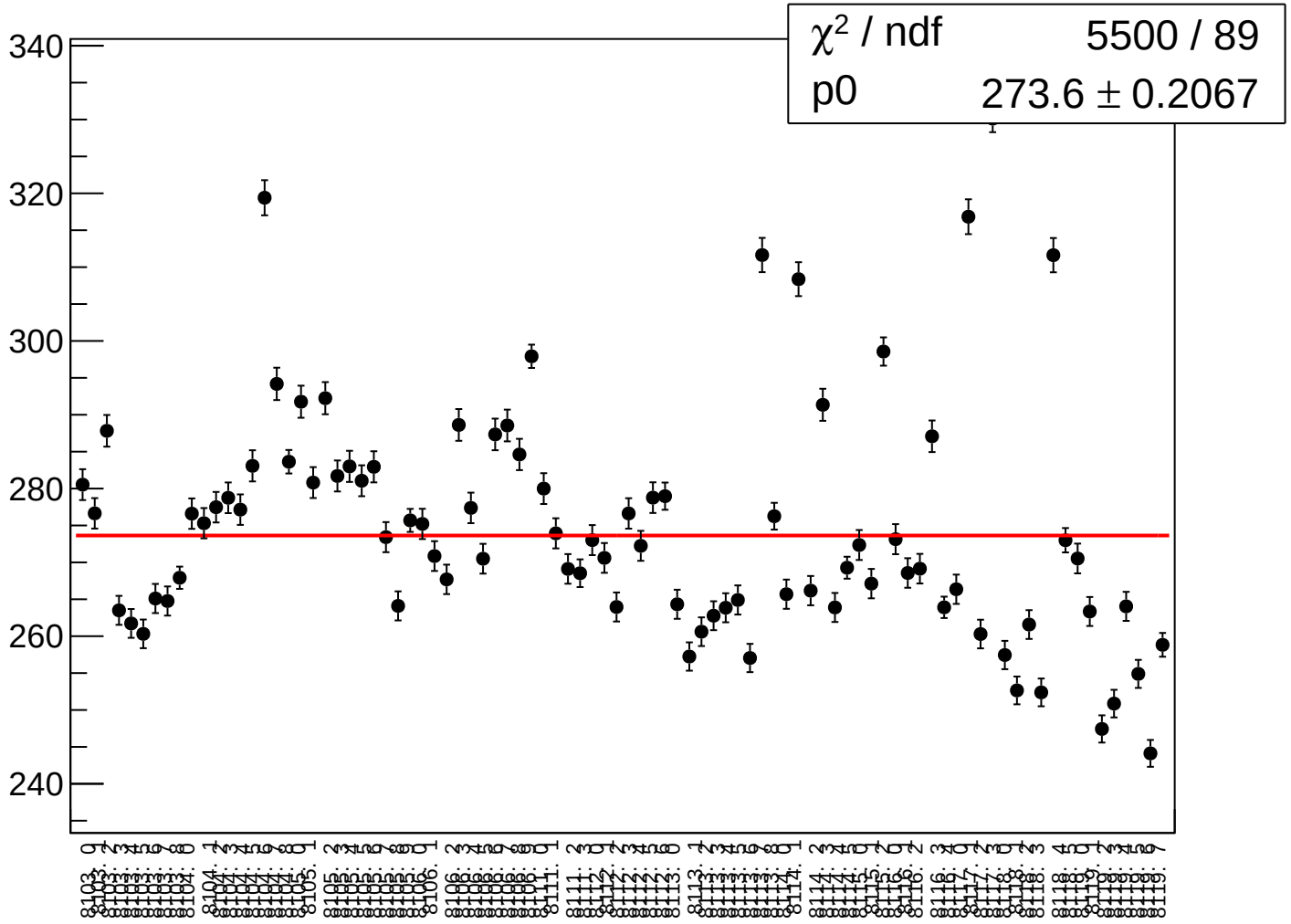

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.548e+04 / 89
p0 14.55 ± 0.01128
35
30
25
20
15
10

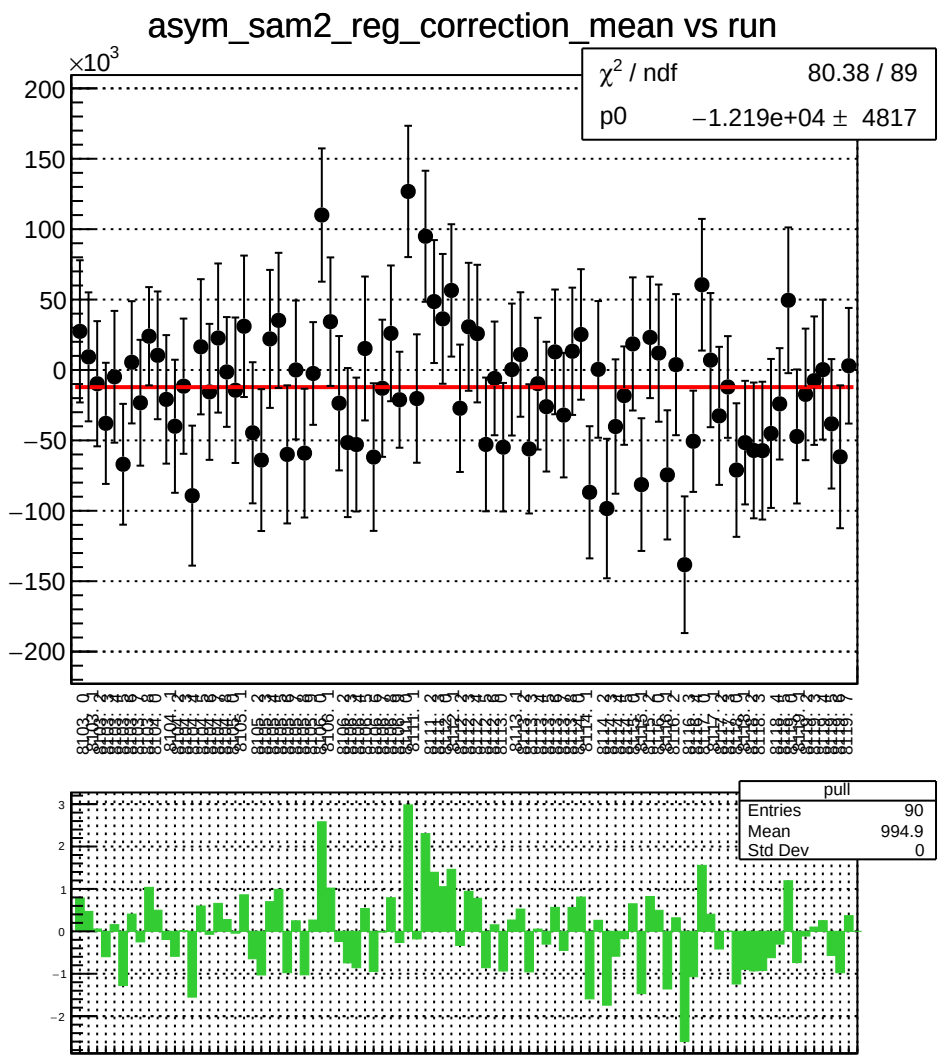

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 78.67 / 89
p0 −3.659e−14 ± 1.807e−14
pull
Entries 90
Mean −96.03
Std Dev 0
pull1D
Entries 90
Mean −0.01074
Std Dev 0.9349

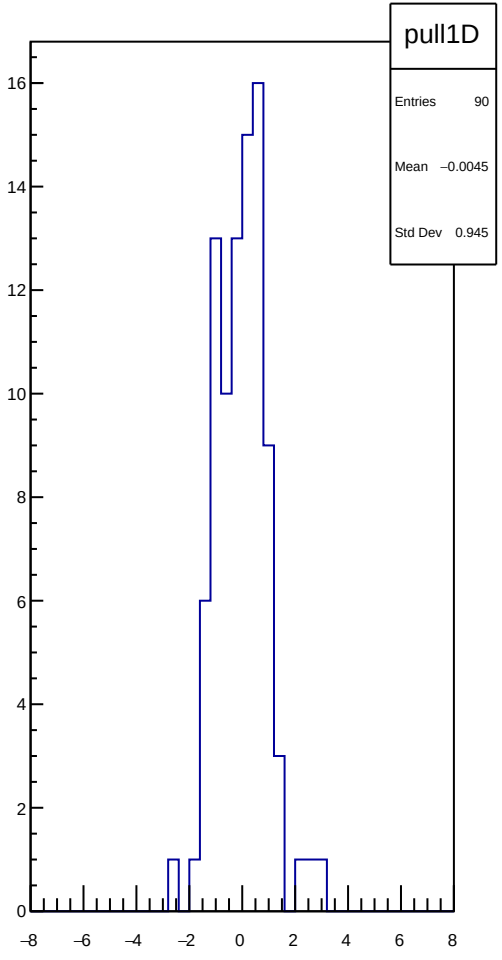

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 3.6e+05 / 89
p0 1.511e−11 ± 1.278e−14

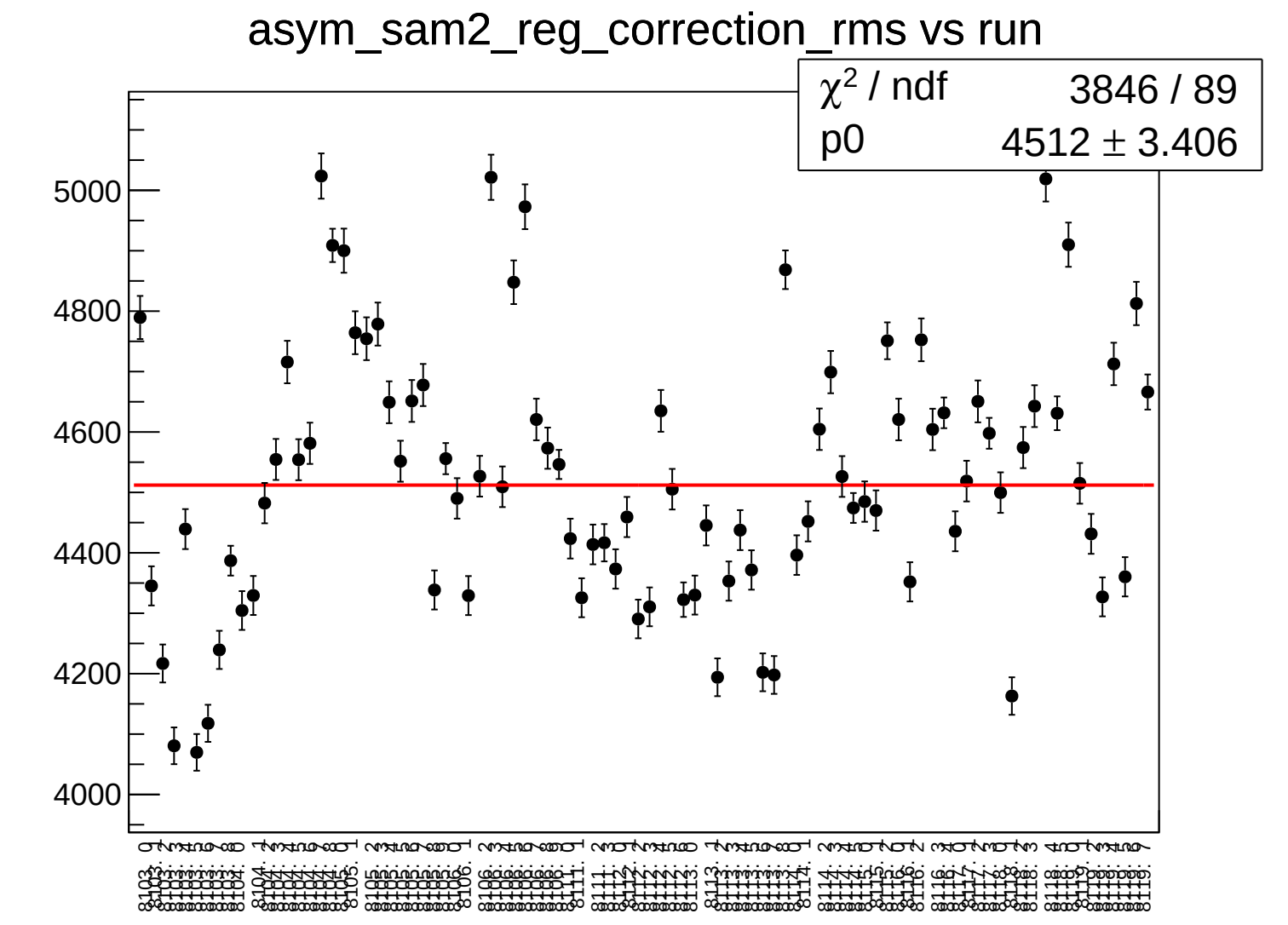

reg_asym_sam2_mean vs run
χ² / ndf 72.02 / 89
p0 −501.4 ± 292.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −103.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

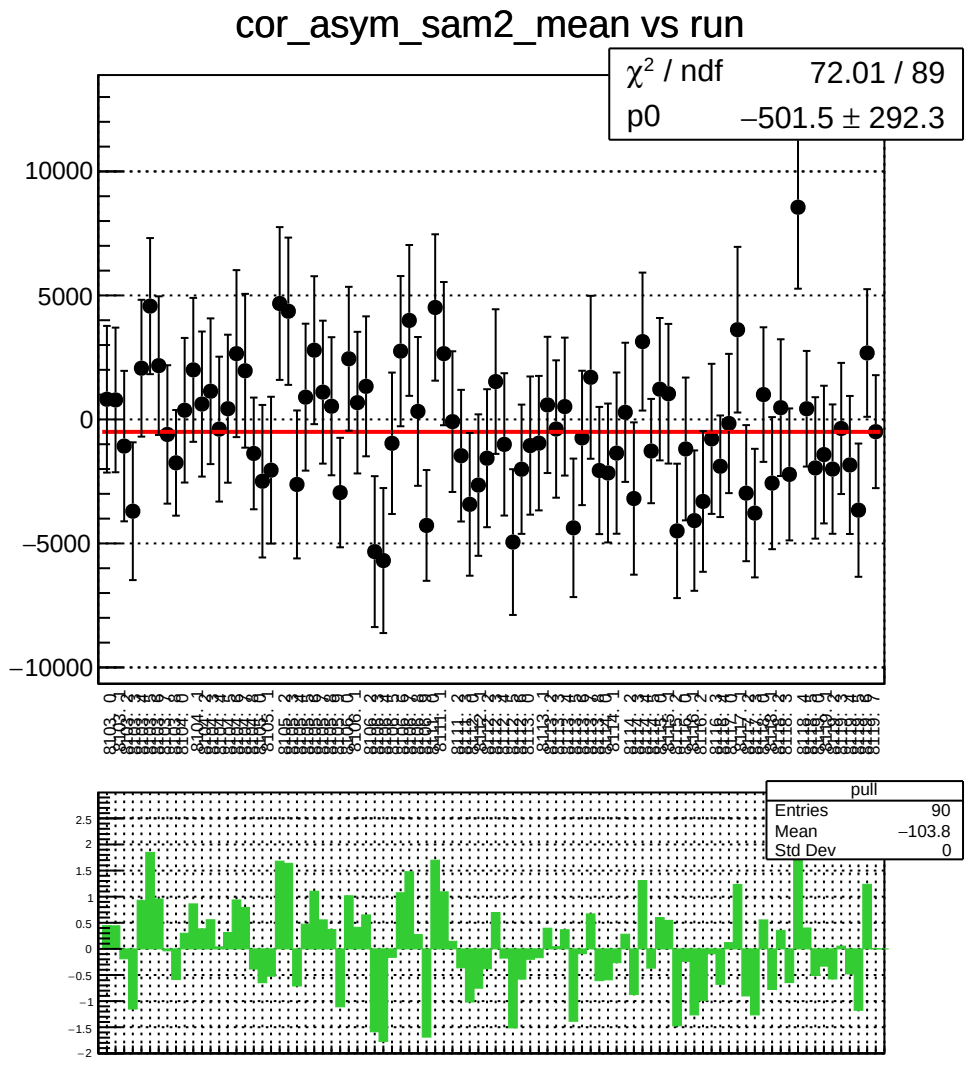

pull1D
Entries 90
Mean 0.03128
Std Dev 0.894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

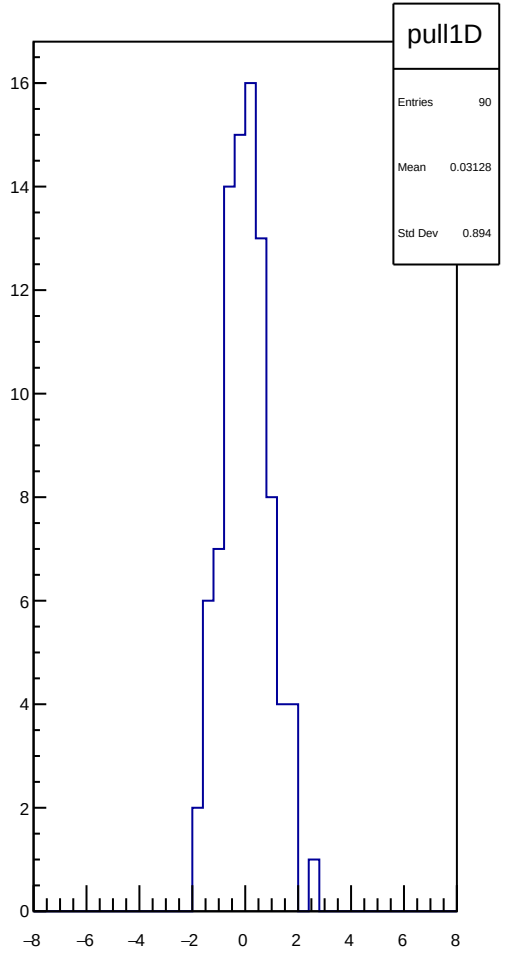

reg_asym_sam2_rms vs run
χ² / ndf 5500 / 89
p0 273.6 ± 0.2067
340
320
300
280
260
240

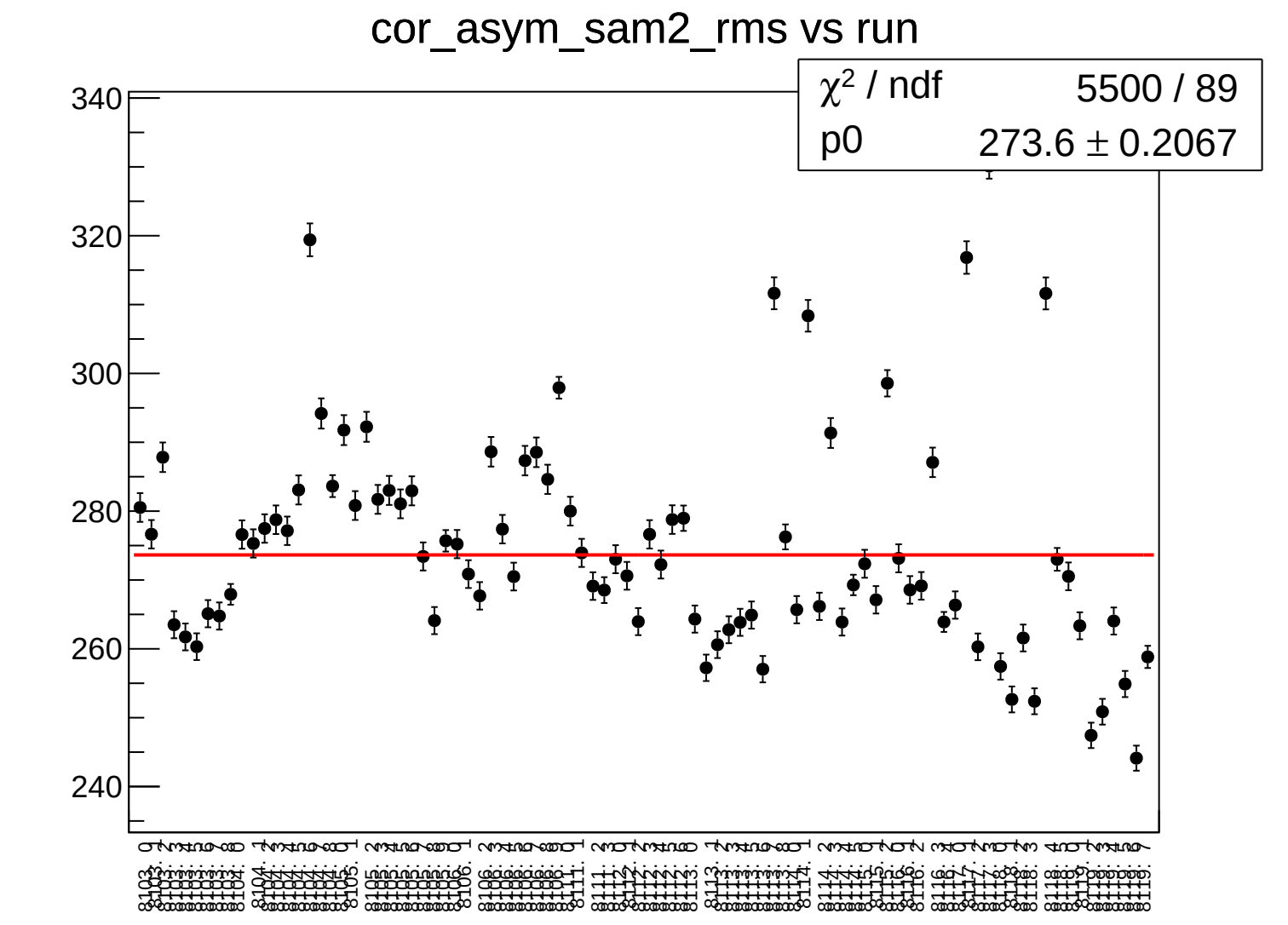

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 80.38 / 89
p0 −1.219e+04 ± 4817
pull
Entries 90
Mean 994.9
Std Dev 0

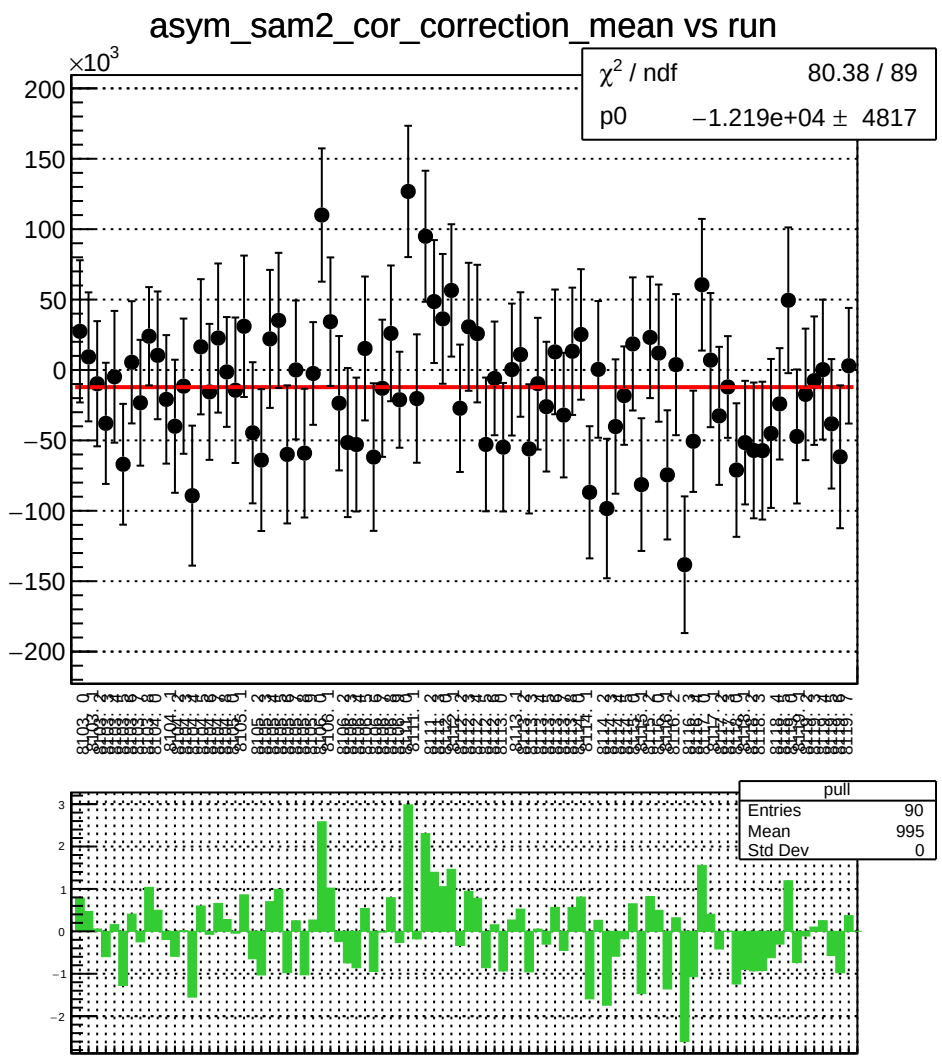

pull1D
Entries 90
Mean −0.0045
Std Dev 0.945

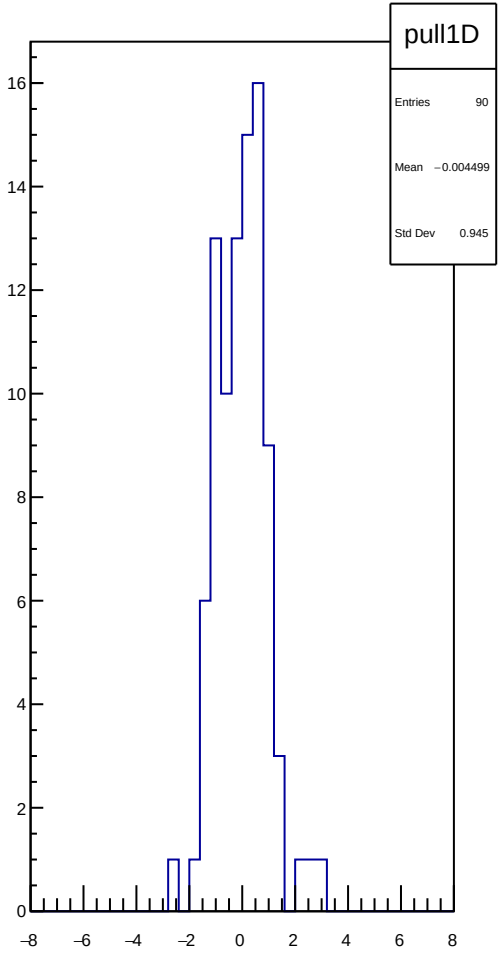

asym_sam2_reg_correction_rms vs run
χ² / ndf 3846 / 89
p0 4512 ± 3.406
5000
4800
4600
4400
4200
4000

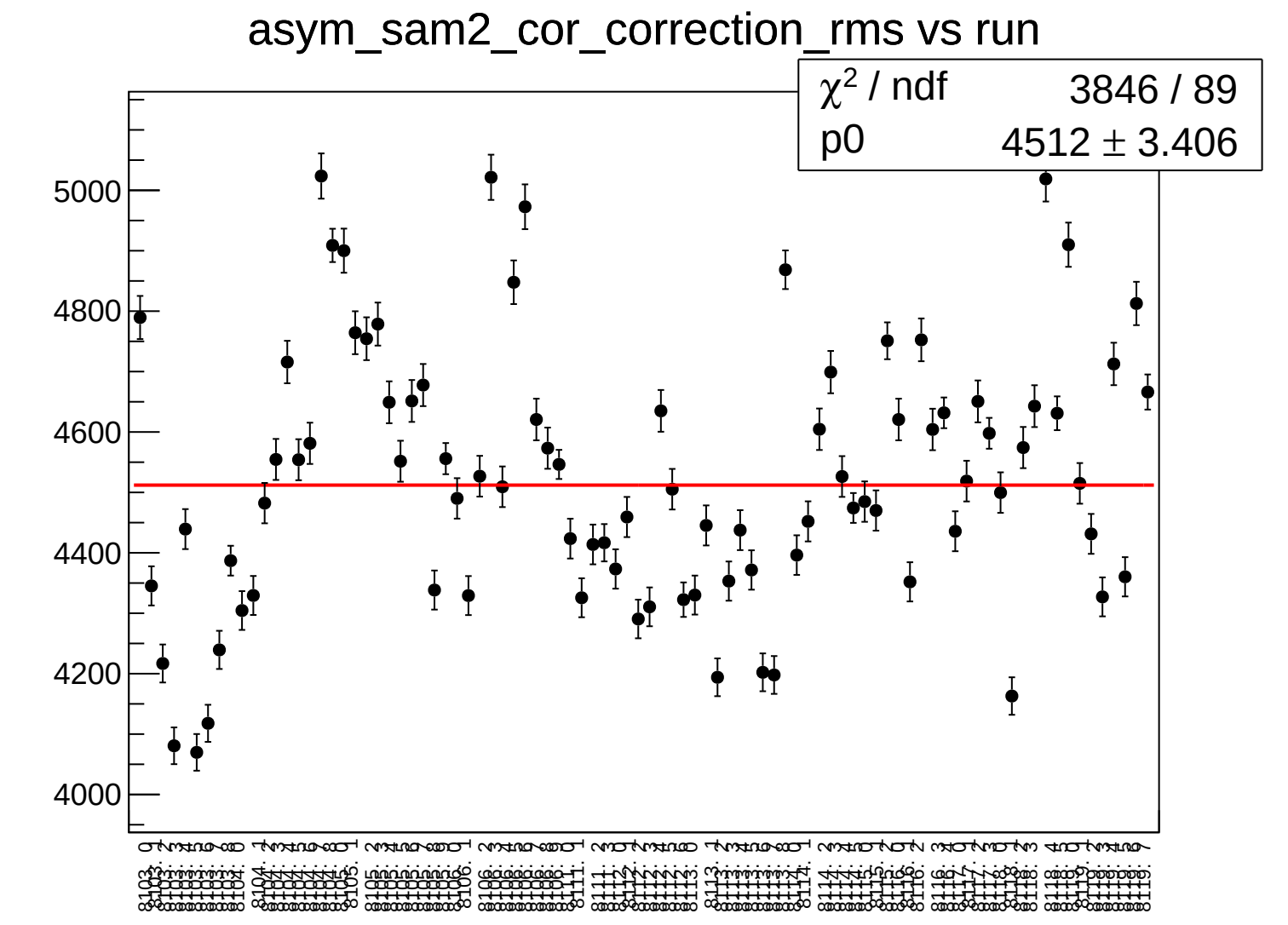

cor_asym_sam2_mean vs run
χ² / ndf 72.01 / 89
p0 −501.5 ± 292.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −103.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

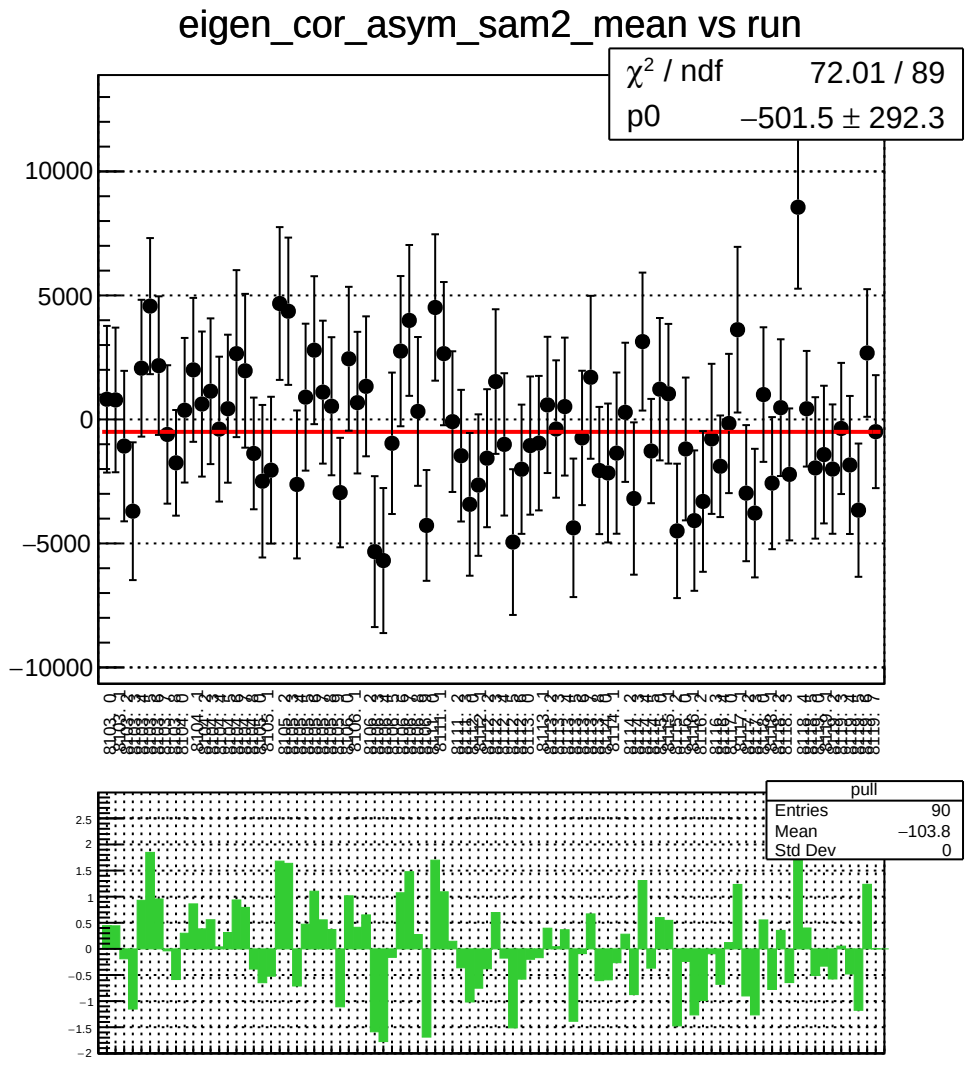

pull1D
Entries 90
Mean 0.03128
Std Dev 0.894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

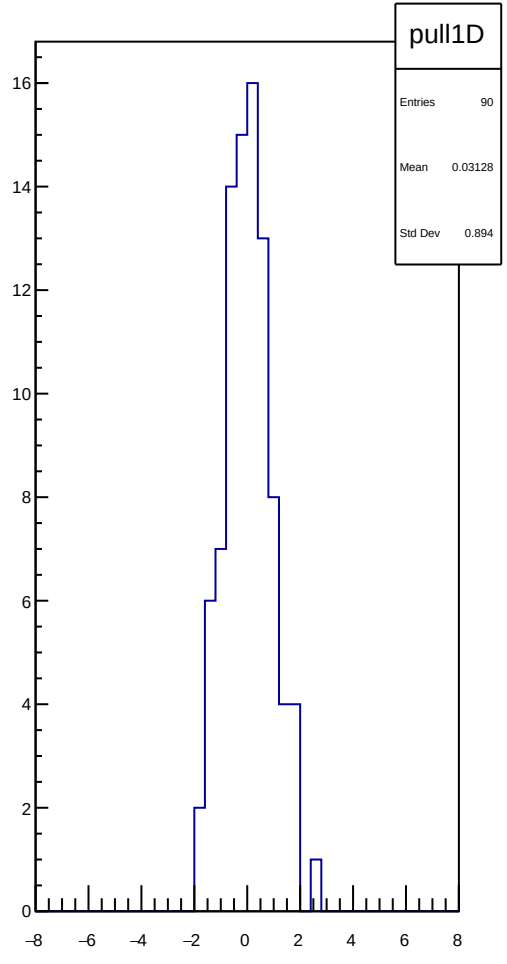

cor_asym_sam2_rms vs run
χ² / ndf 5500 / 89
p0 273.6 ± 0.2067
340
320
300
280
260
240

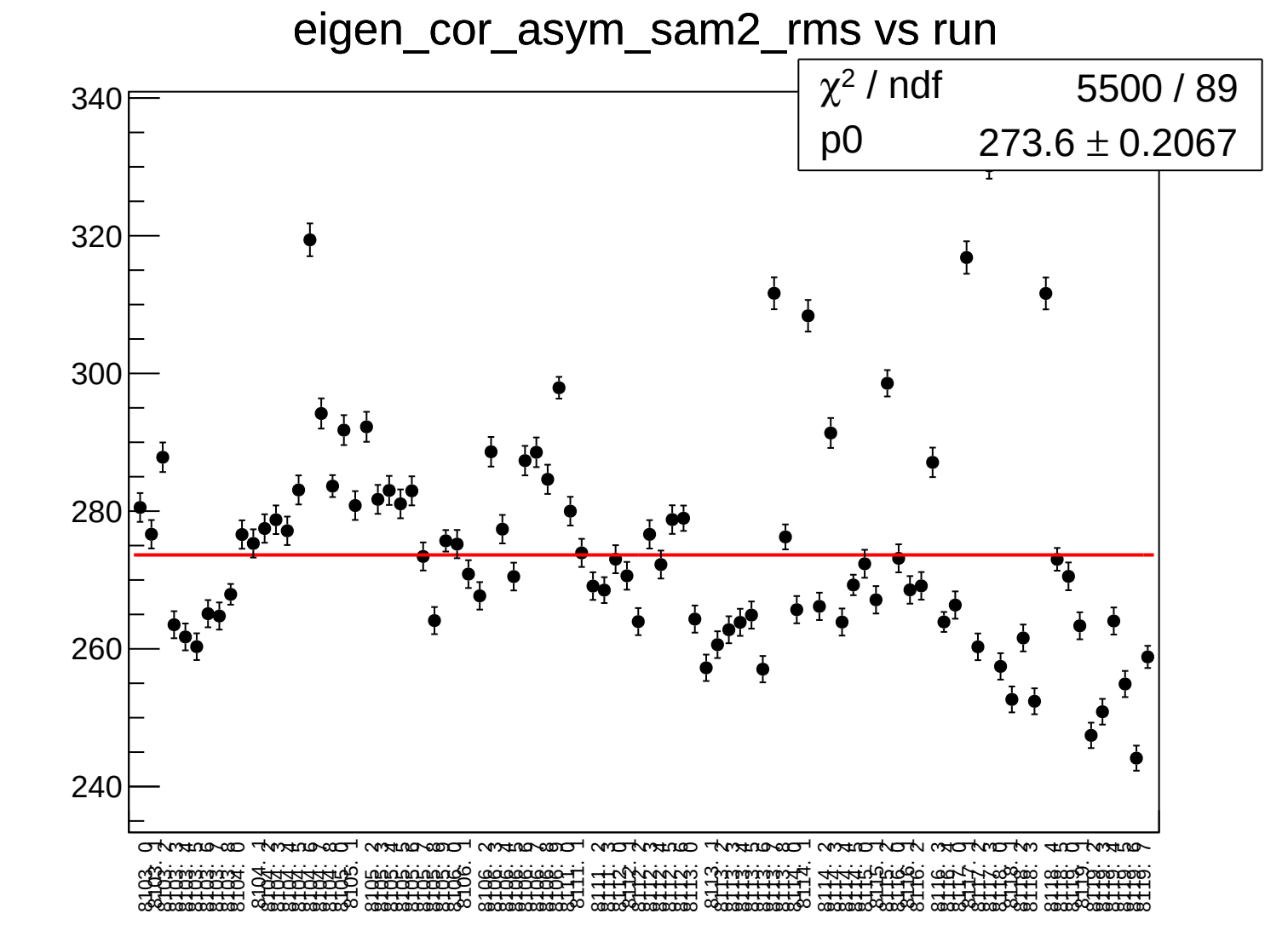

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 80.38 / 89
p0 −1.219e+04 ± 4817
pull
Entries 90
Mean 995
Std Dev 0

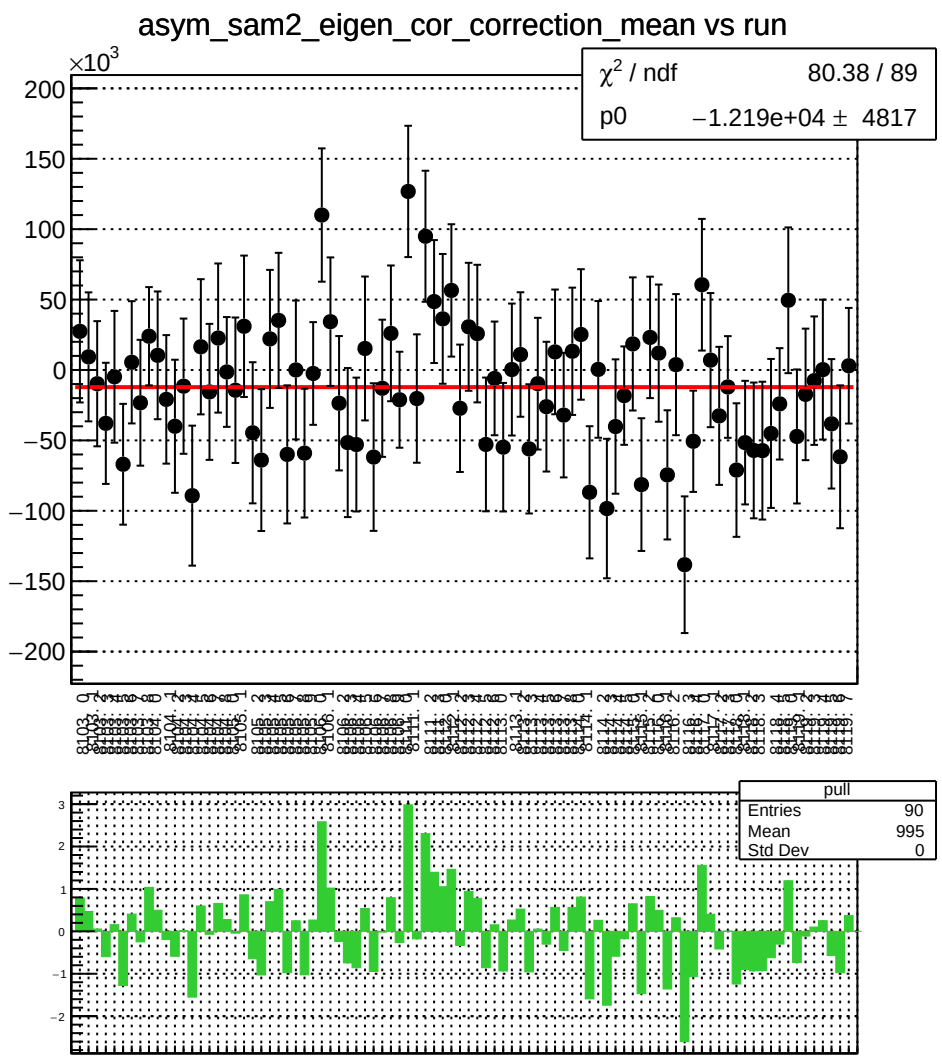

pull1D
Entries 90
Mean −0.004499
Std Dev 0.945

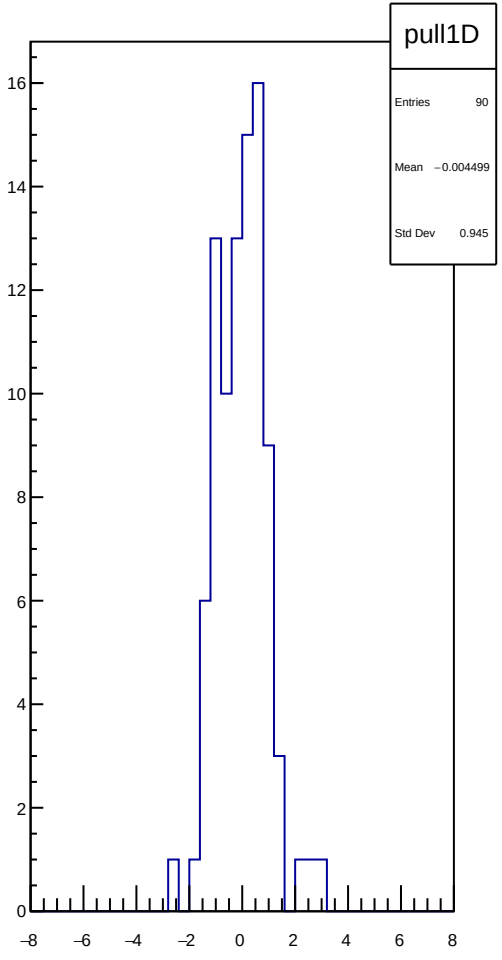

asym_sam2_cor_correction_rms vs run
χ² / ndf 3846 / 89
p0 4512 ± 3.406
5000
4800
4600
4400
4200
4000

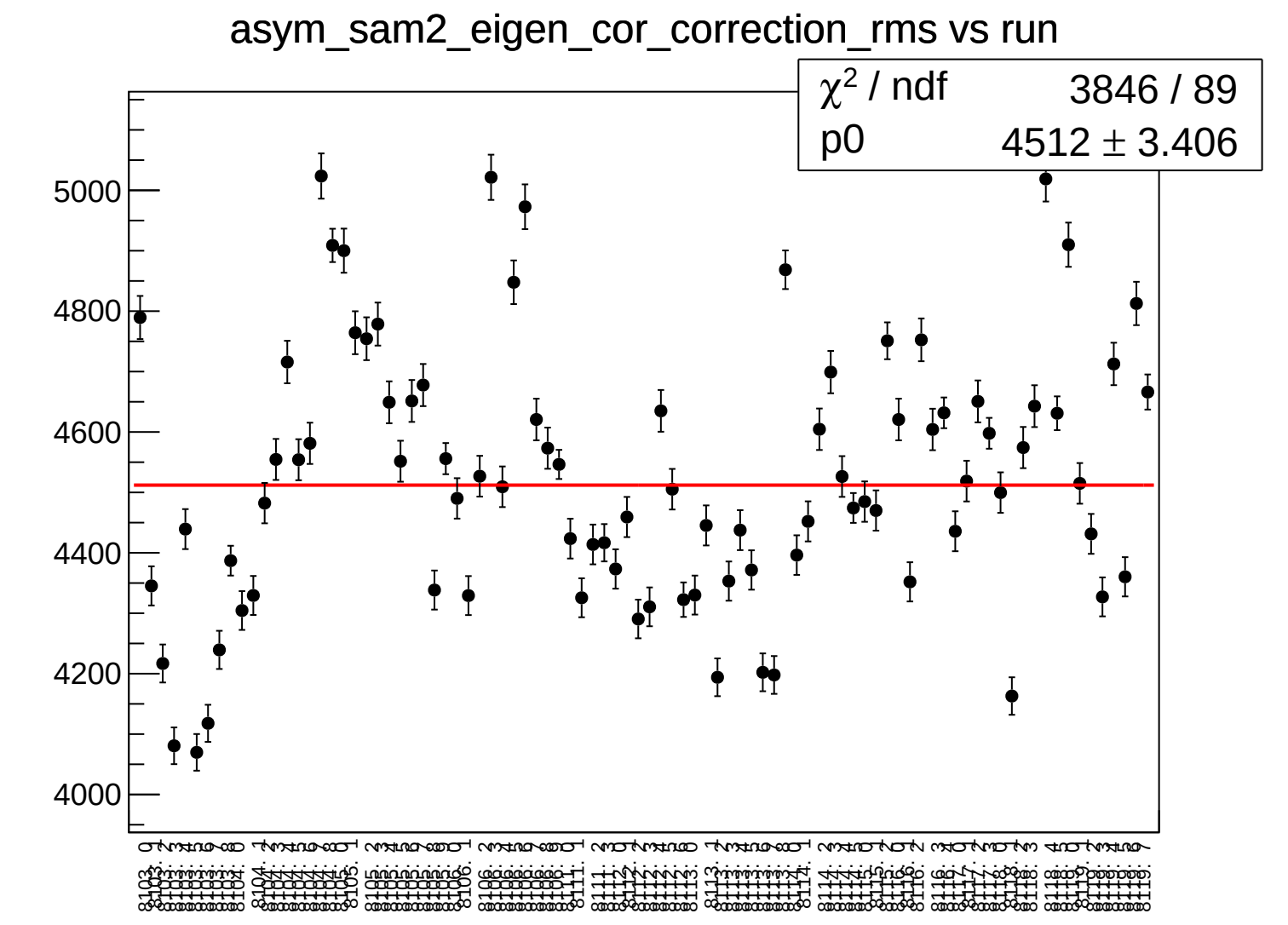

eigen_cor_asym_sam2_mean vs run
χ² / ndf 72.01 / 89
p0 −501.5 ± 292.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −103.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

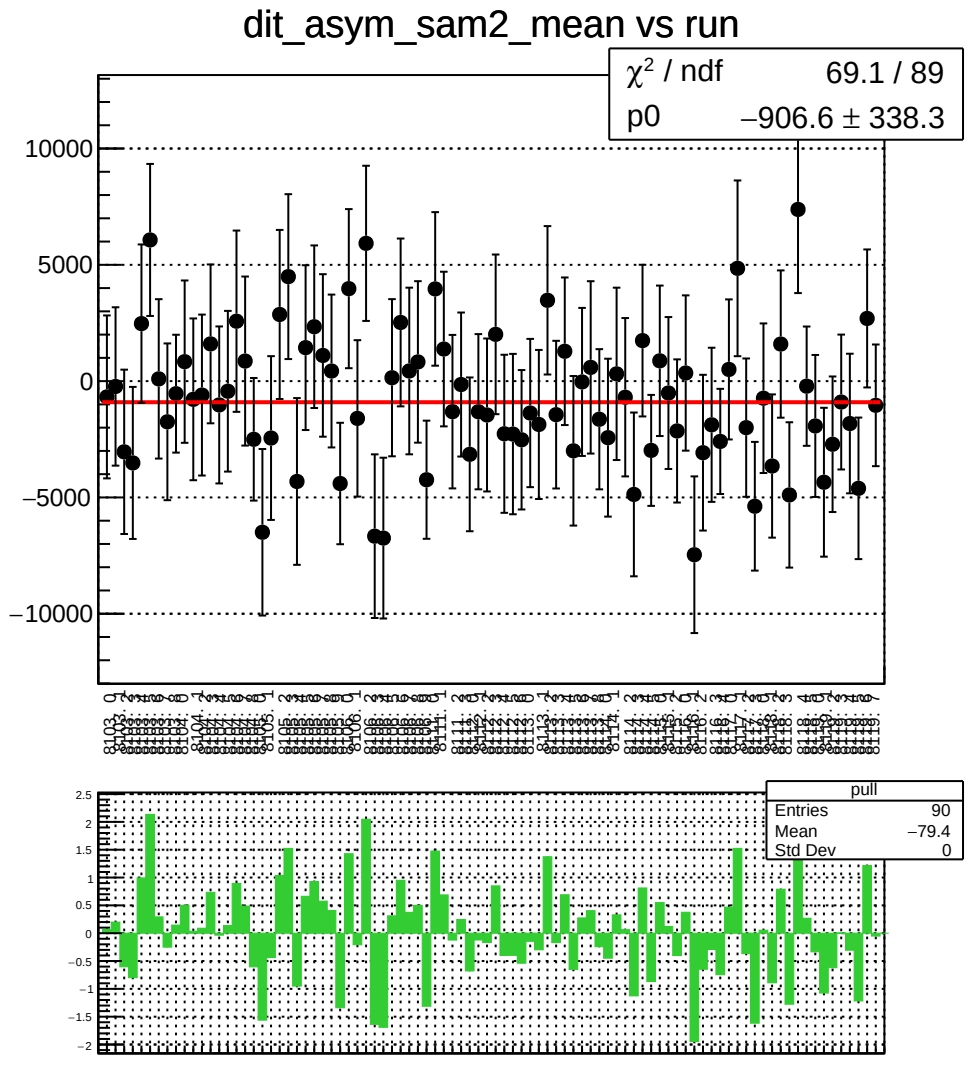

pull1D
Entries 90
Mean 0.03128
Std Dev 0.894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

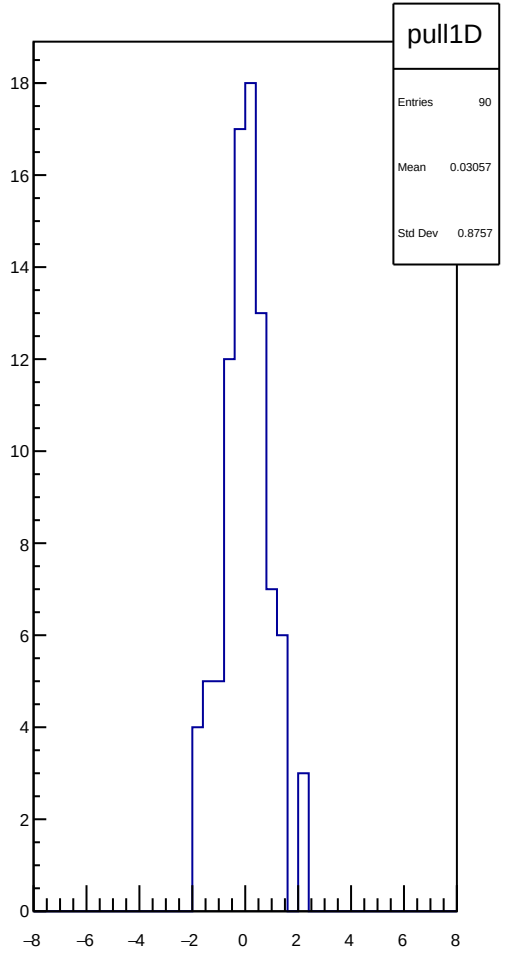

eigen_cor_asym_sam2_rms vs run
χ² / ndf 5500 / 89
p0 273.6 ± 0.2067
340
320
300
280
260
240

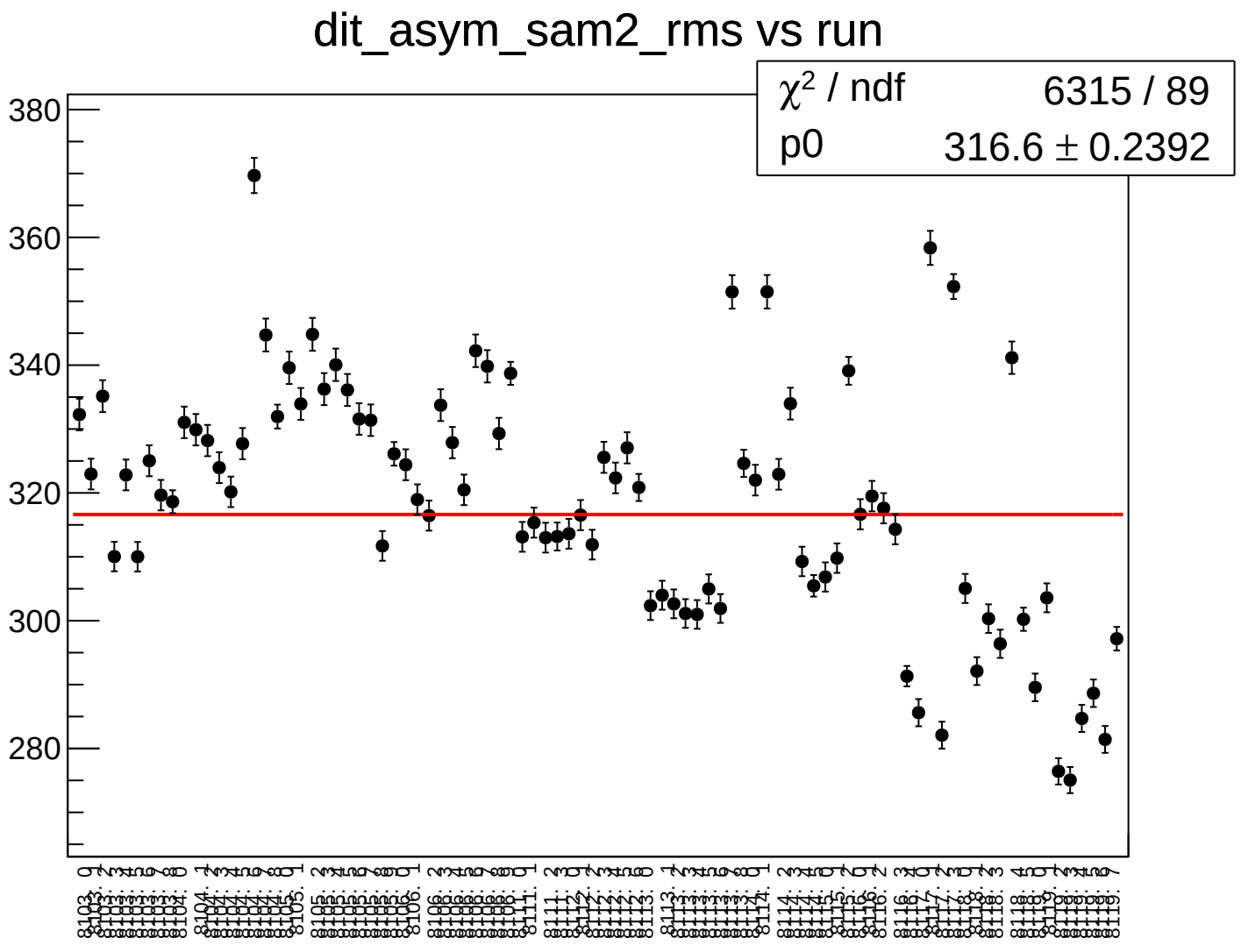

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 80.38 / 89
p0 −1.219e+04 ± 4817
pull
Entries 90
Mean 995
Std Dev 0

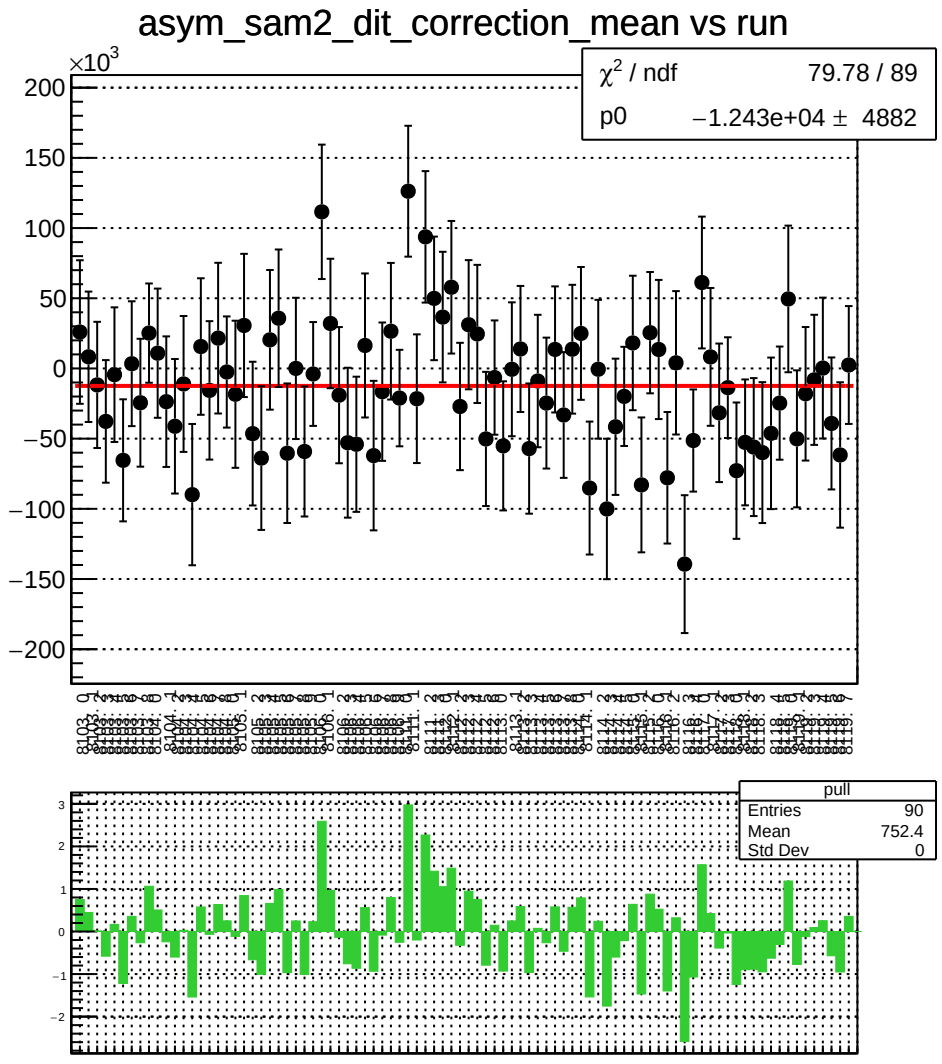

pull1D
Entries 90
Mean −0.004499
Std Dev 0.945

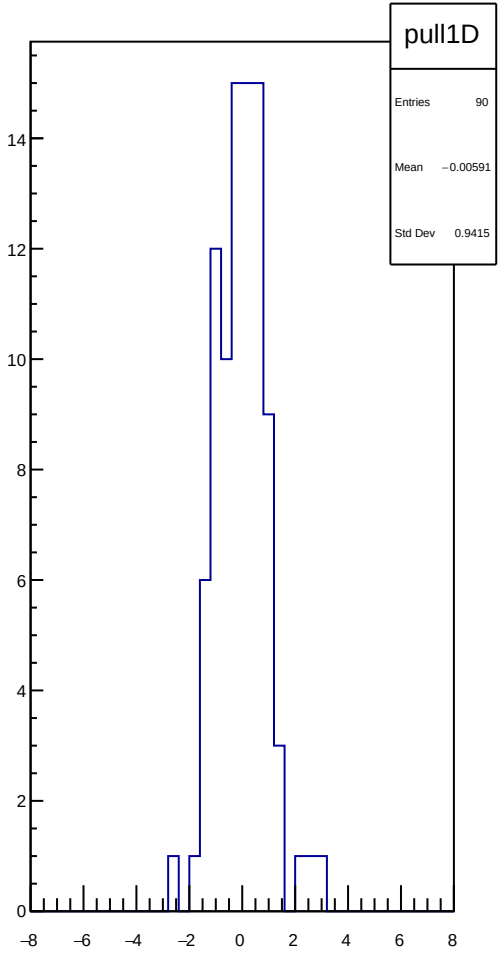

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 3846 / 89
p0 4512 ± 3.406
5000
4800
4600
4400
4200
4000

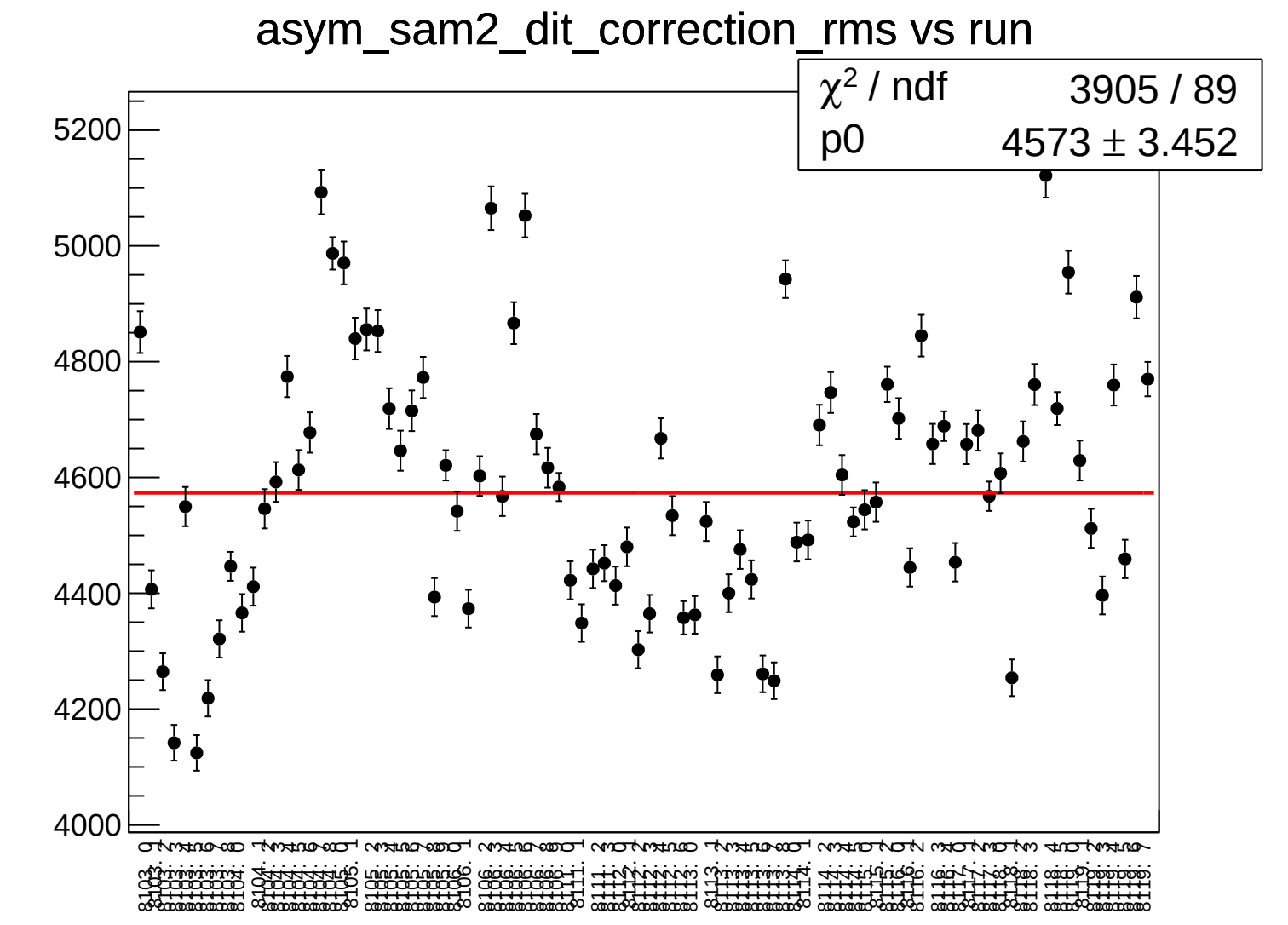

dit_asym_sam2_mean vs run
χ² / ndf 69.1 / 89
p0 −906.6 ± 338.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −79.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

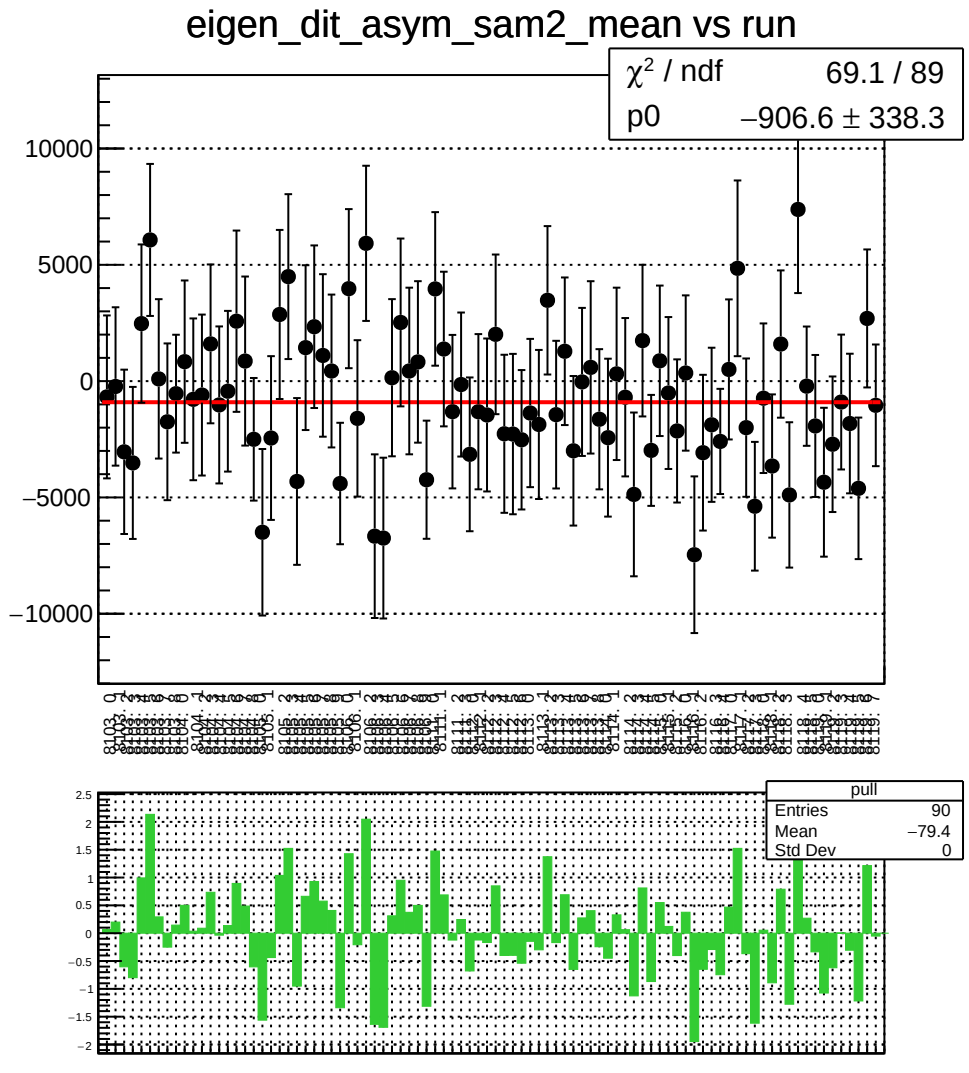

pull1D
Entries 90
Mean 0.03057
Std Dev 0.8757
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

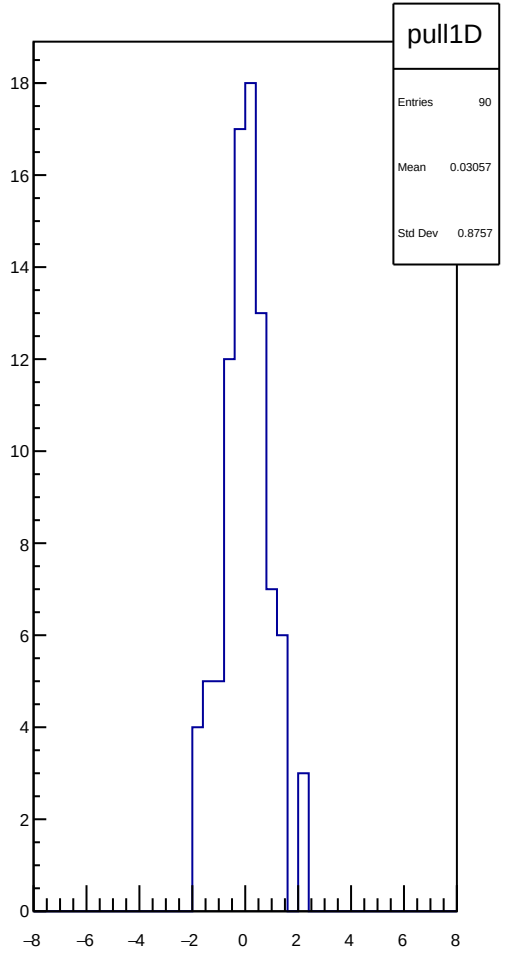

dit_asym_sam2_rms vs run
χ² / ndf 6315 / 89
p0 316.6 ± 0.2392
380
360
340
320
300
280

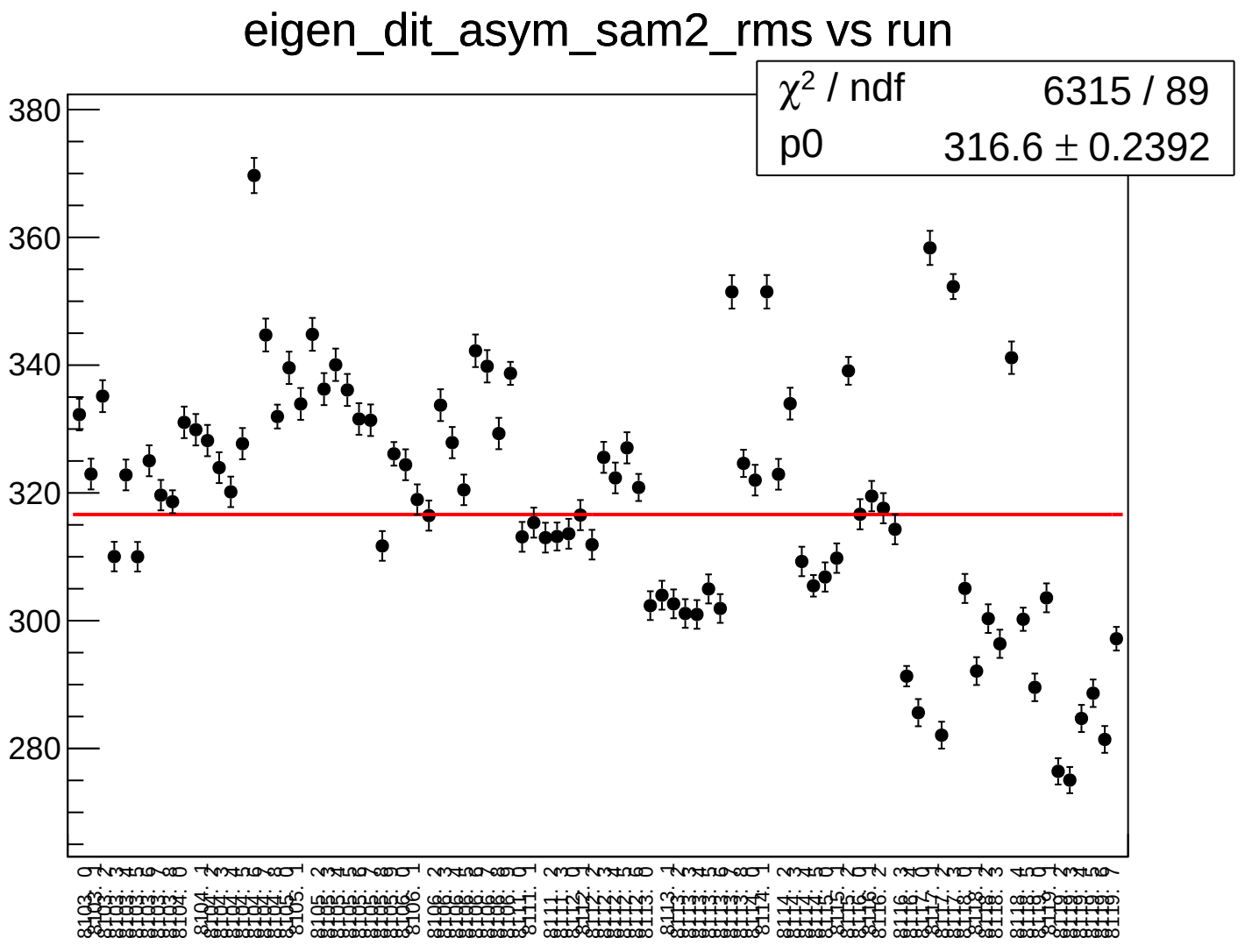

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 79.78 / 89
p0 −1.243e+04 ± 4882
pull
Entries 90
Mean 752.4
Std Dev 0

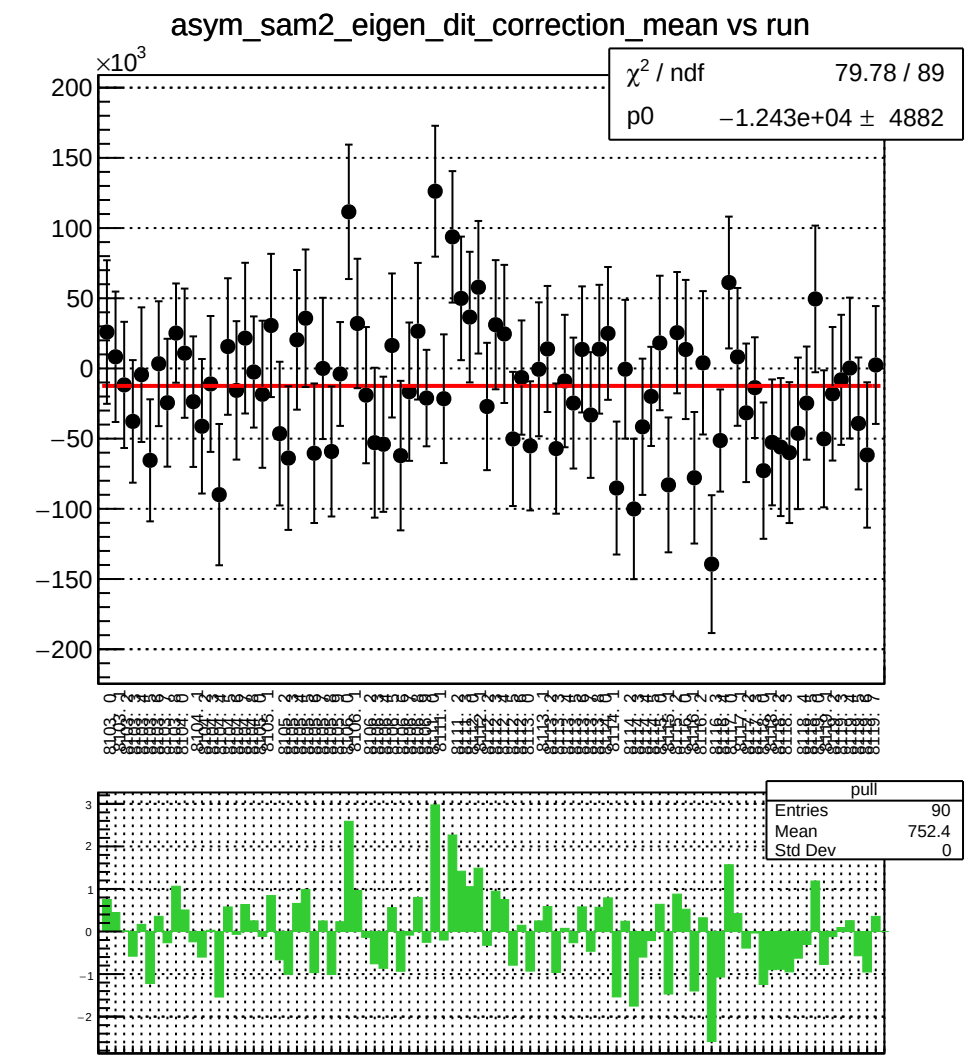

pull1D
Entries 90
Mean −0.00591
Std Dev 0.9415

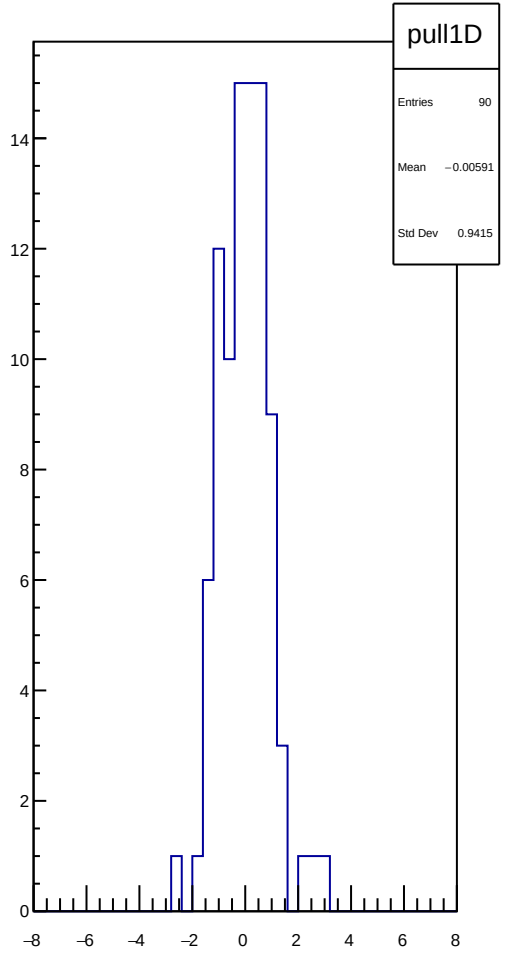

asym_sam2_dit_correction_rms vs run
χ^2 / ndf 3905 / 89
p0 4573 ± 3.452
5200
5000
4800
4600
4400
4200
4000

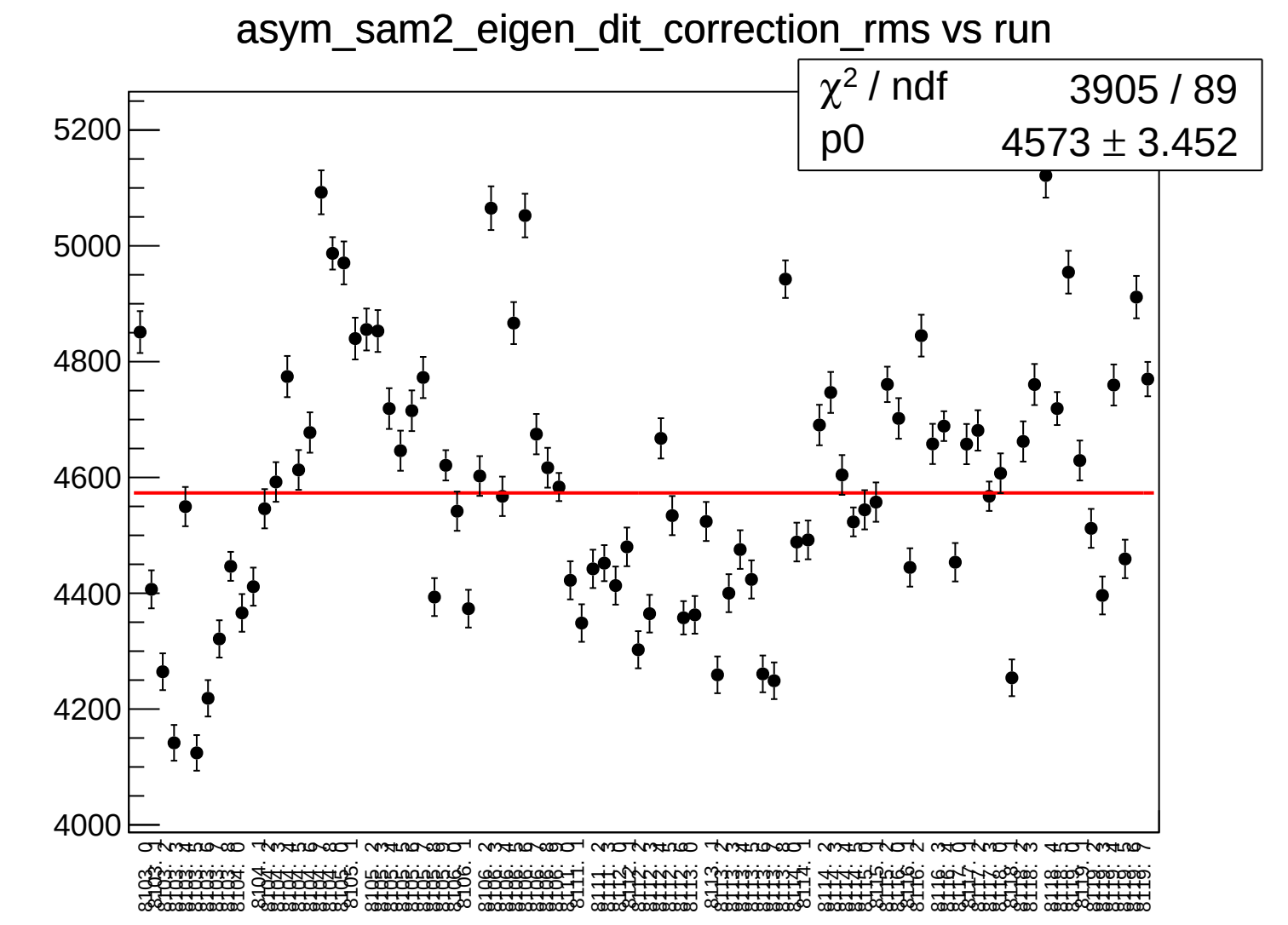

eigen_dit_asym_sam2_mean vs run
χ² / ndf 69.1 / 89
p0 −906.6 ± 338.3
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −79.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

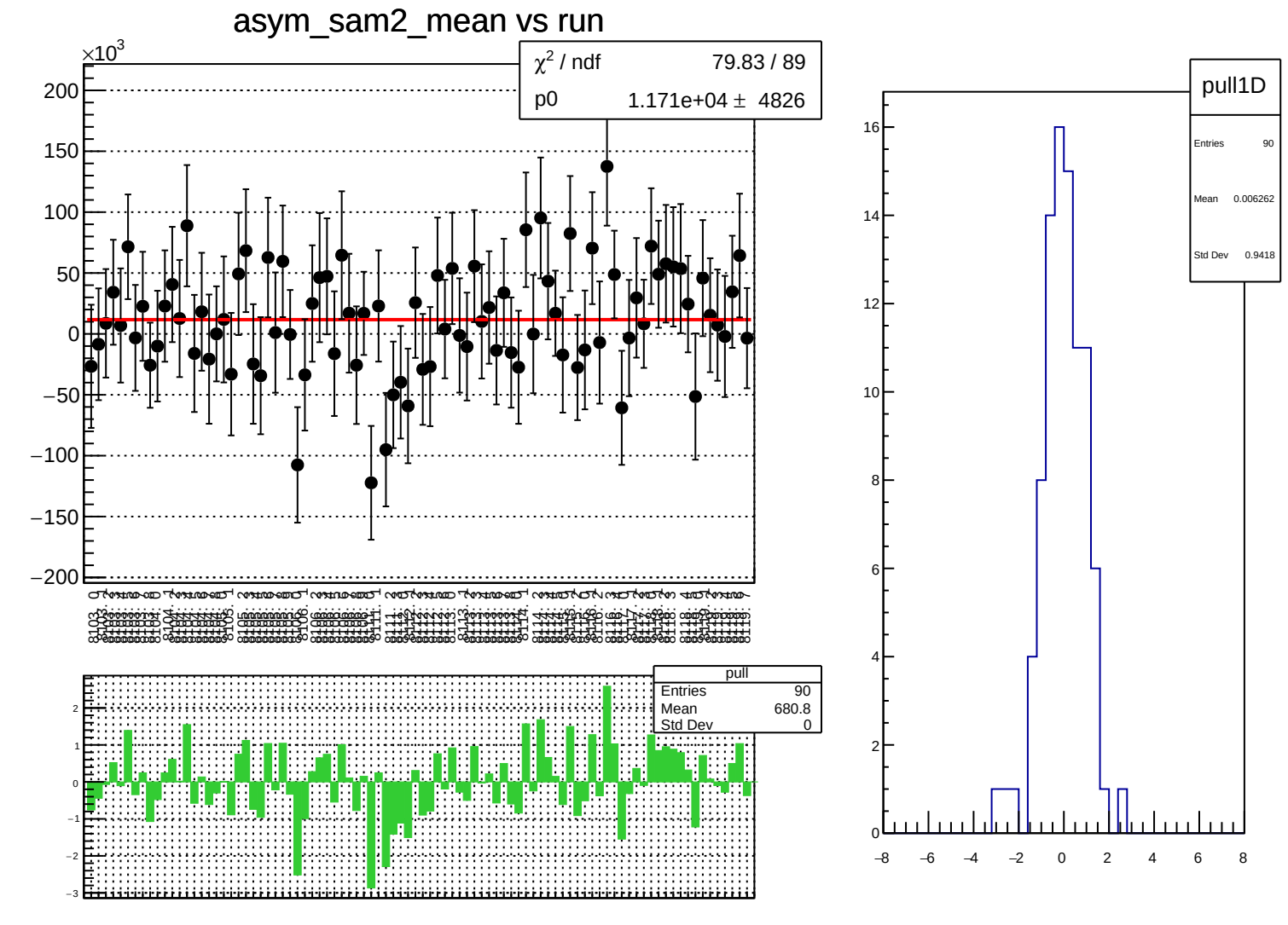

pull1D
Entries 90
Mean 0.03057
Std Dev 0.8757
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

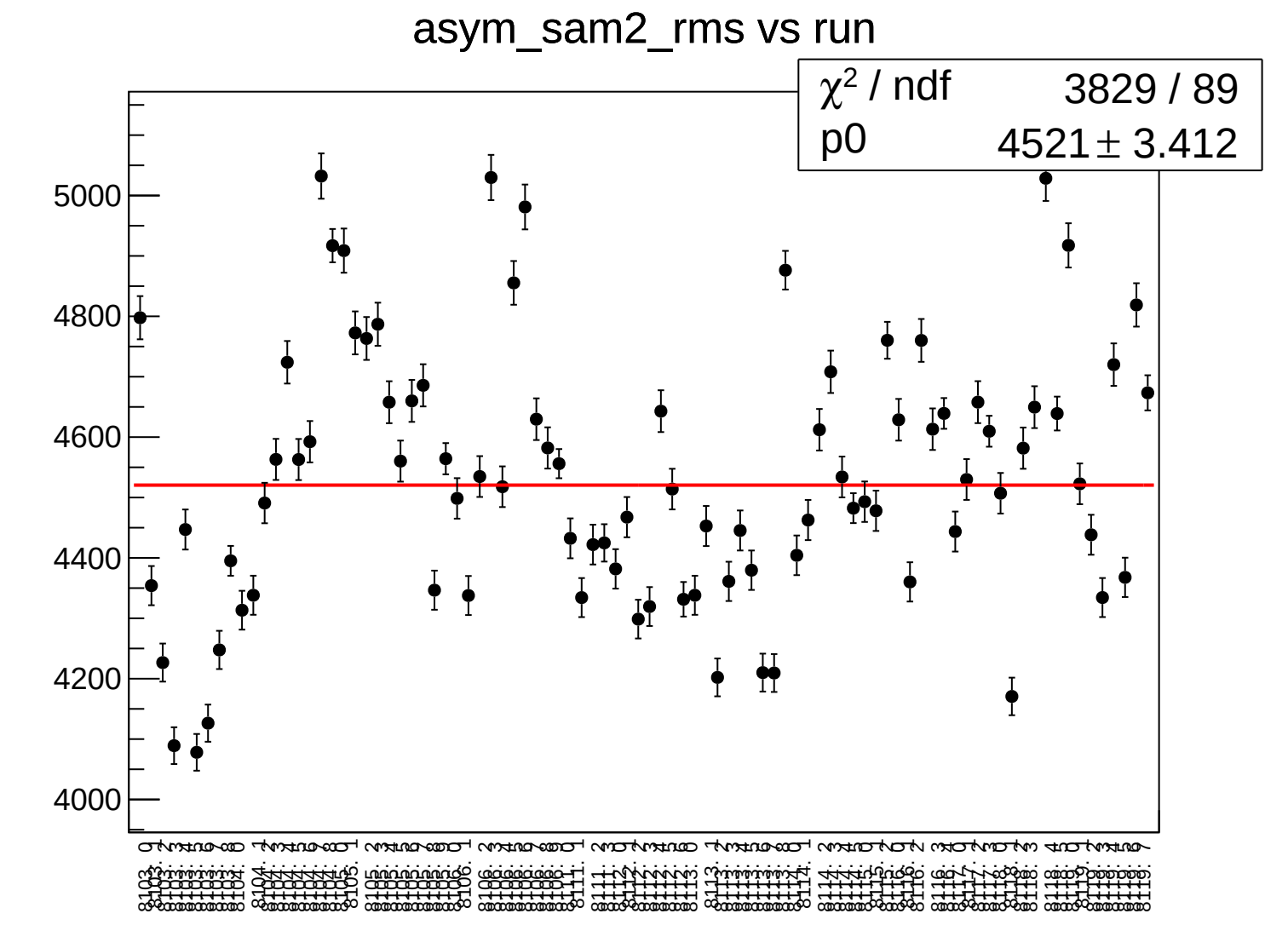

eigen_dit_asym_sam2_rms vs run
χ² / ndf 6315 / 89
p0 316.6 ± 0.2392
380
360
340
320
300
280

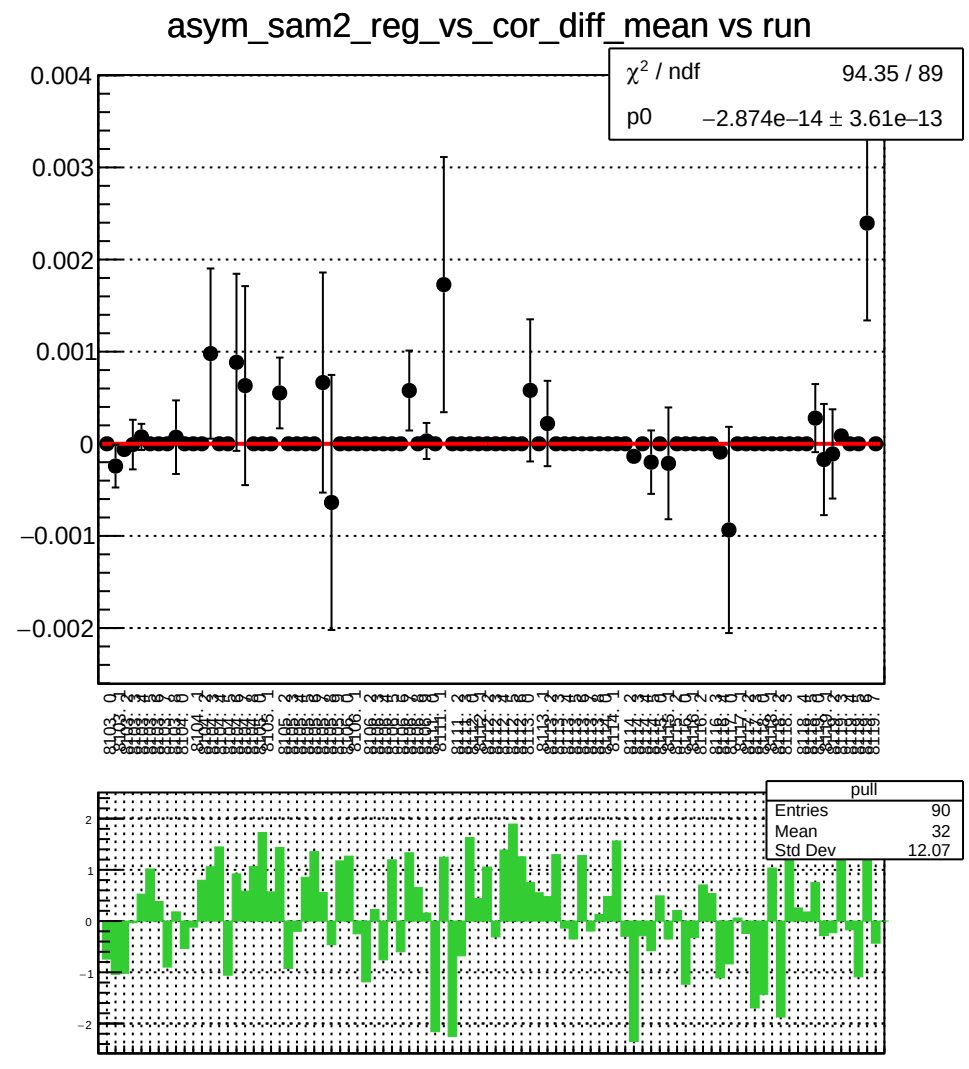

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.78 / 89
p0 −1.243e+04 ± 4882
pull
Entries 90
Mean 752.4
Std Dev 0

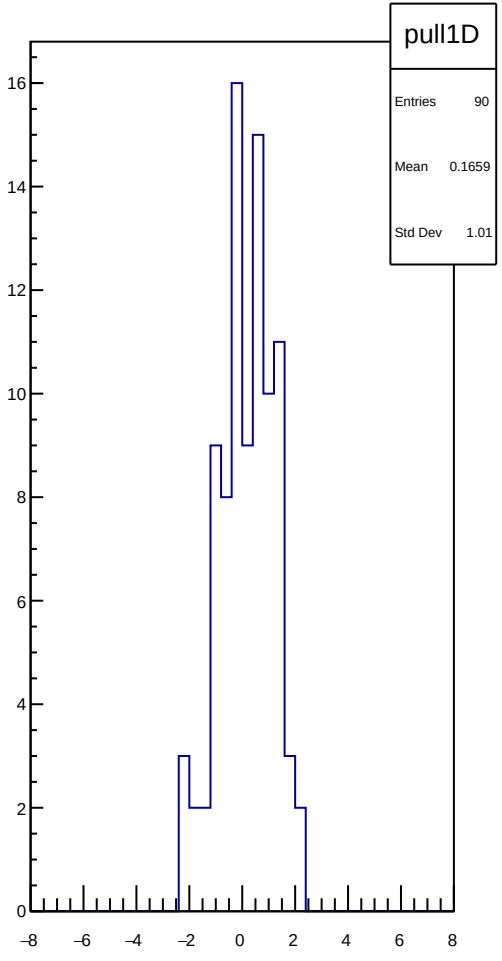

pull1D
Entries 90
Mean −0.00591
Std Dev 0.9415

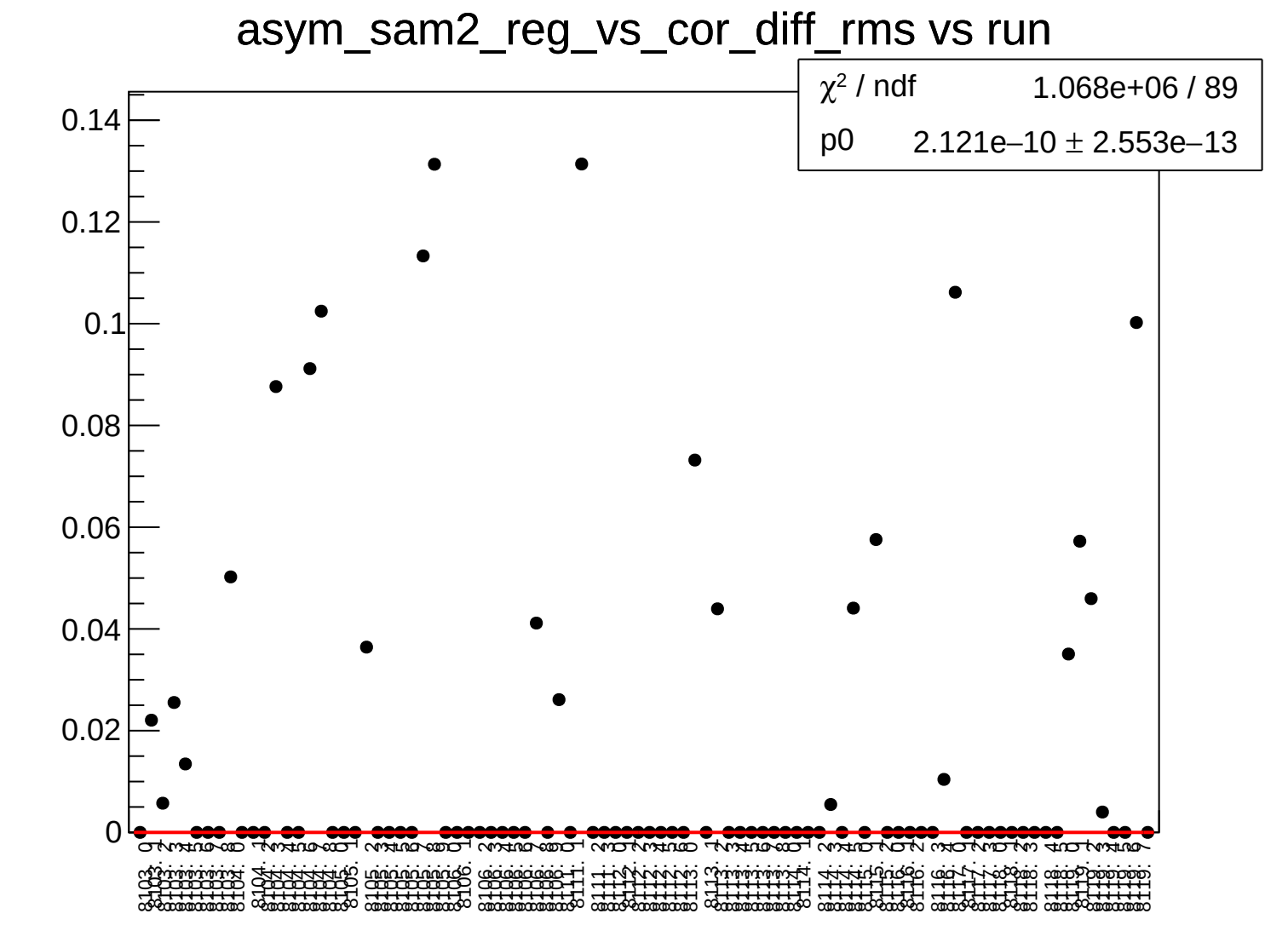

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3905 / 89
p0 4573 ± 3.452
5200
5000
4800
4600
4400
4200
4000

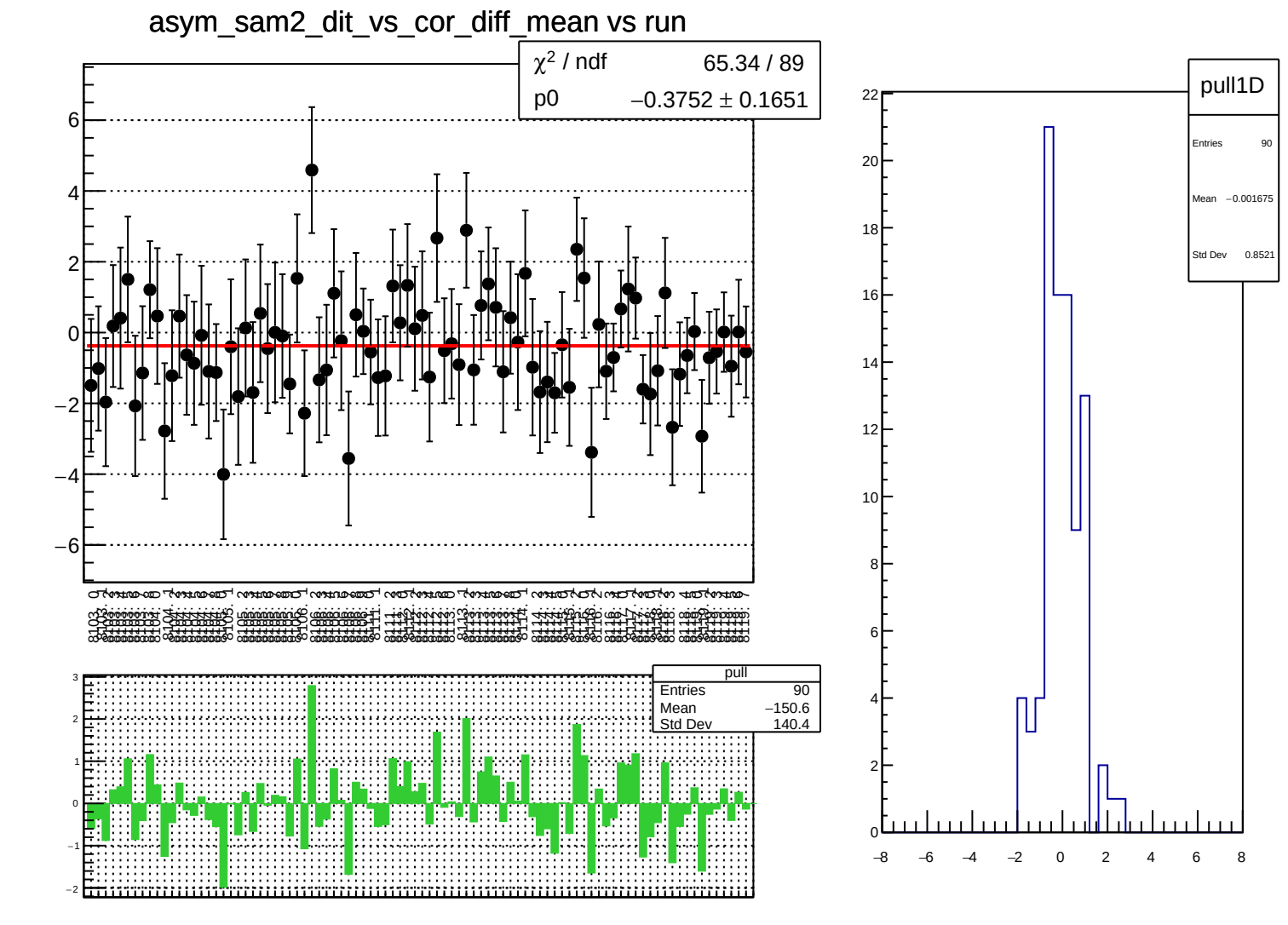

asym_sam2_mean vs run
×10^3
χ² / ndf 79.83 / 89
p0 1.171e+04 ± 4826
pull
Entries 90
Mean 680.8
Std Dev 0
pull1D
Entries 90
Mean 0.006262
Std Dev 0.9418

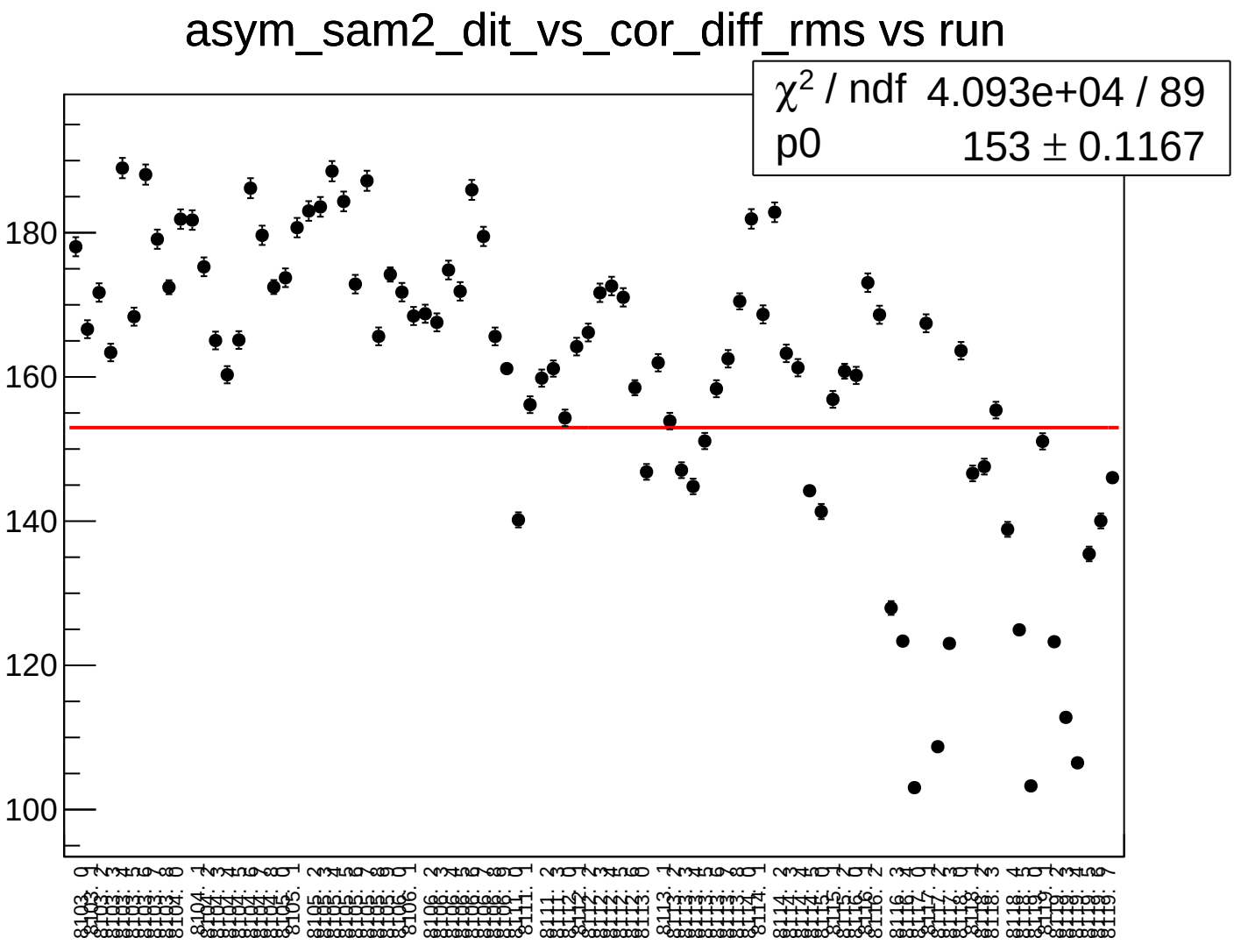

asym_sam2_rms vs run
χ² / ndf 3829 / 89
p0 4521 ± 3.412
5000
4800
4600
4400
4200
4000

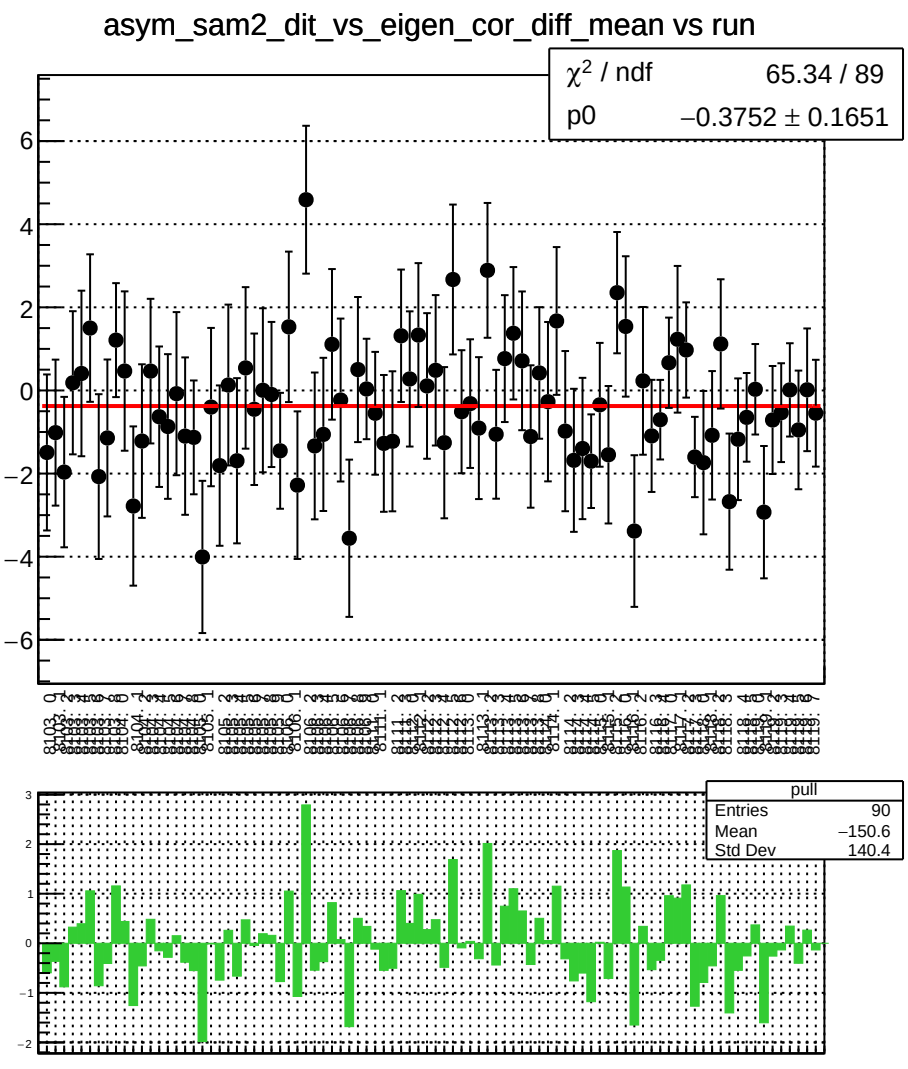

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 94.35 / 89
p0 −2.874e−14 ± 3.61e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 90
Mean 32
Std Dev 12.07
2
1
0
−1
−2

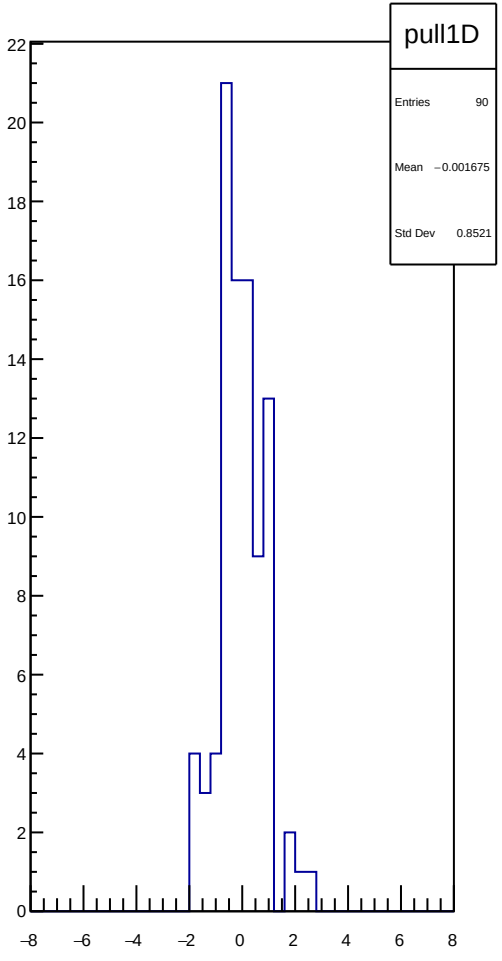

pull1D
Entries 90
Mean 0.1659
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

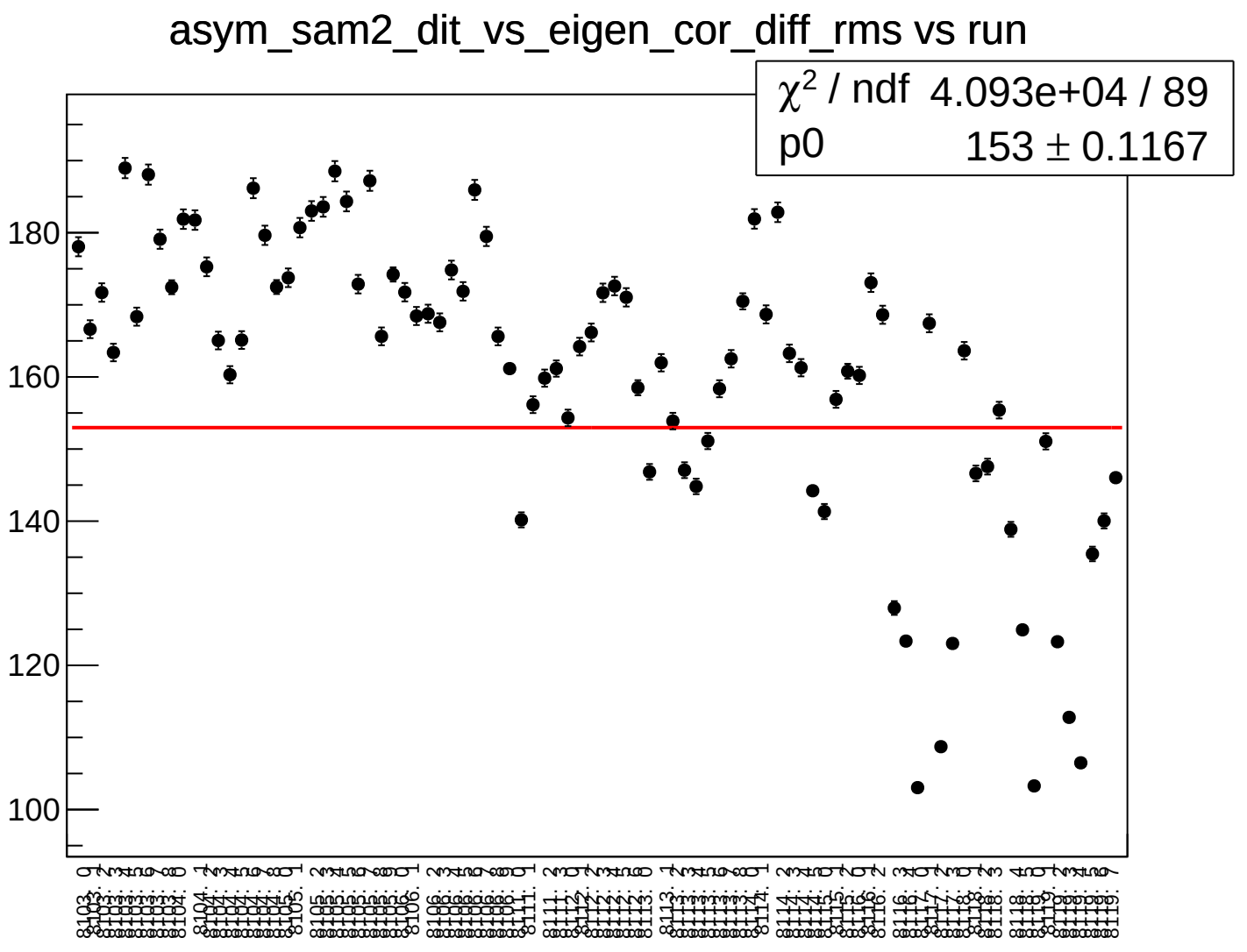

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.068e+06 / 89
p0 2.121e−10 ± 2.553e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

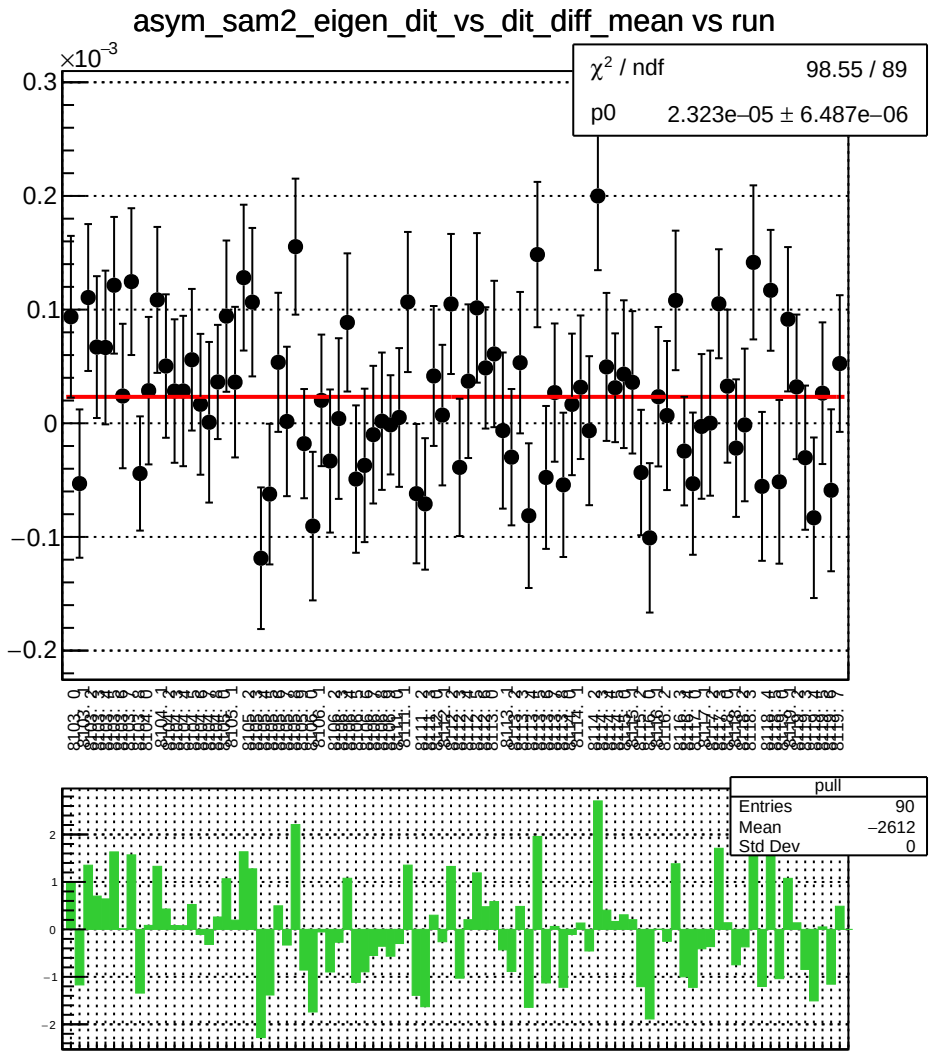

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 65.34 / 89
p0 −0.3752 ± 0.1651
pull
Entries 90
Mean −150.6
Std Dev 140.4
pull1D
Entries 90
Mean −0.001675
Std Dev 0.8521

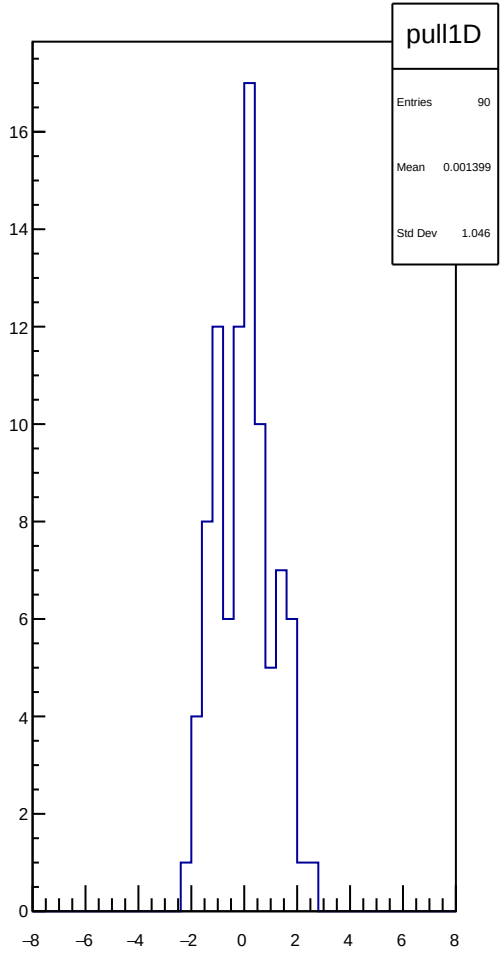

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.093e+04 / 89
p0 153 ± 0.1167
180
160
140
120
100

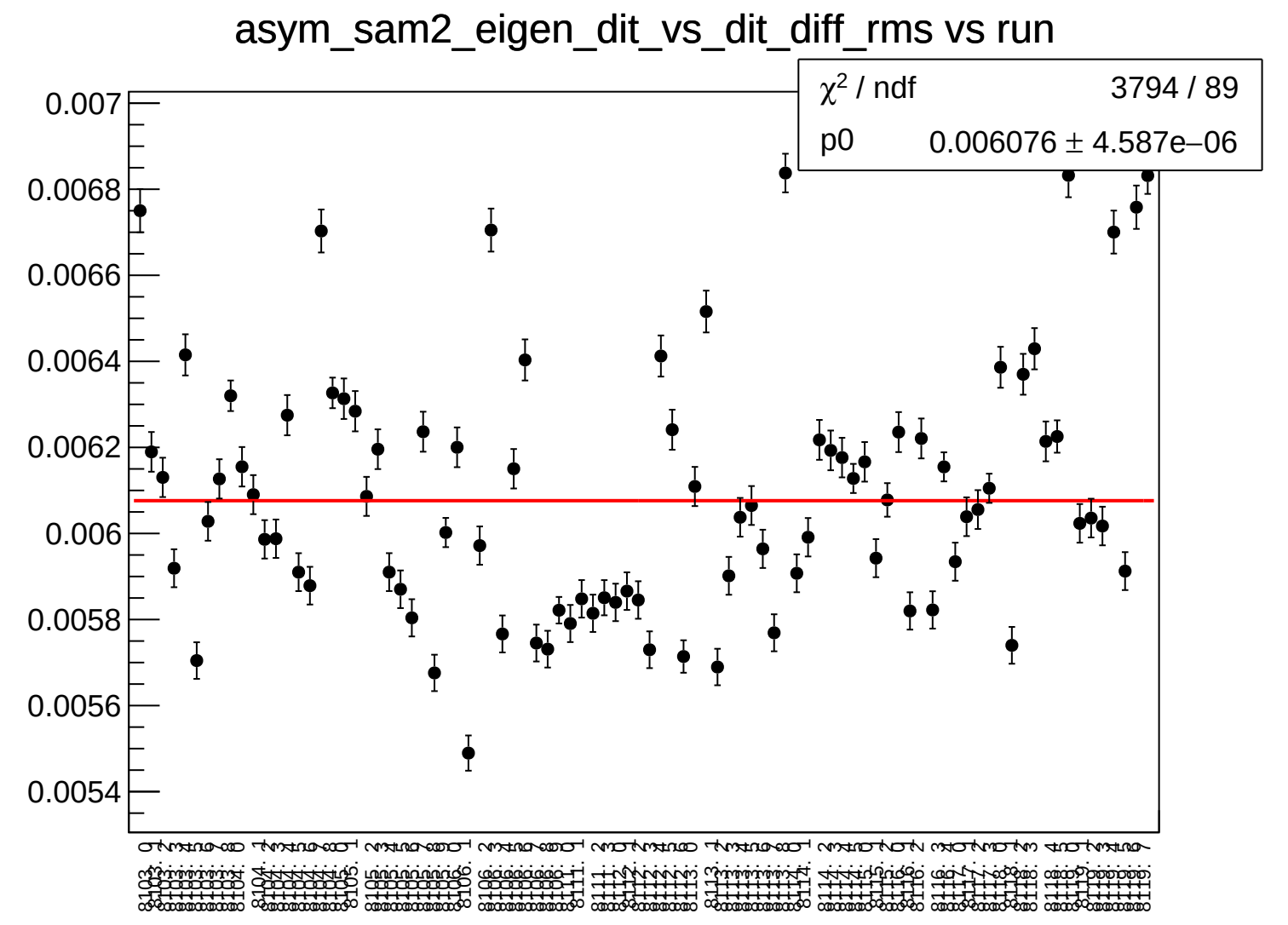

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.34 / 89
p0 −0.3752 ± 0.1651
pull
Entries 90
Mean −150.6
Std Dev 140.4

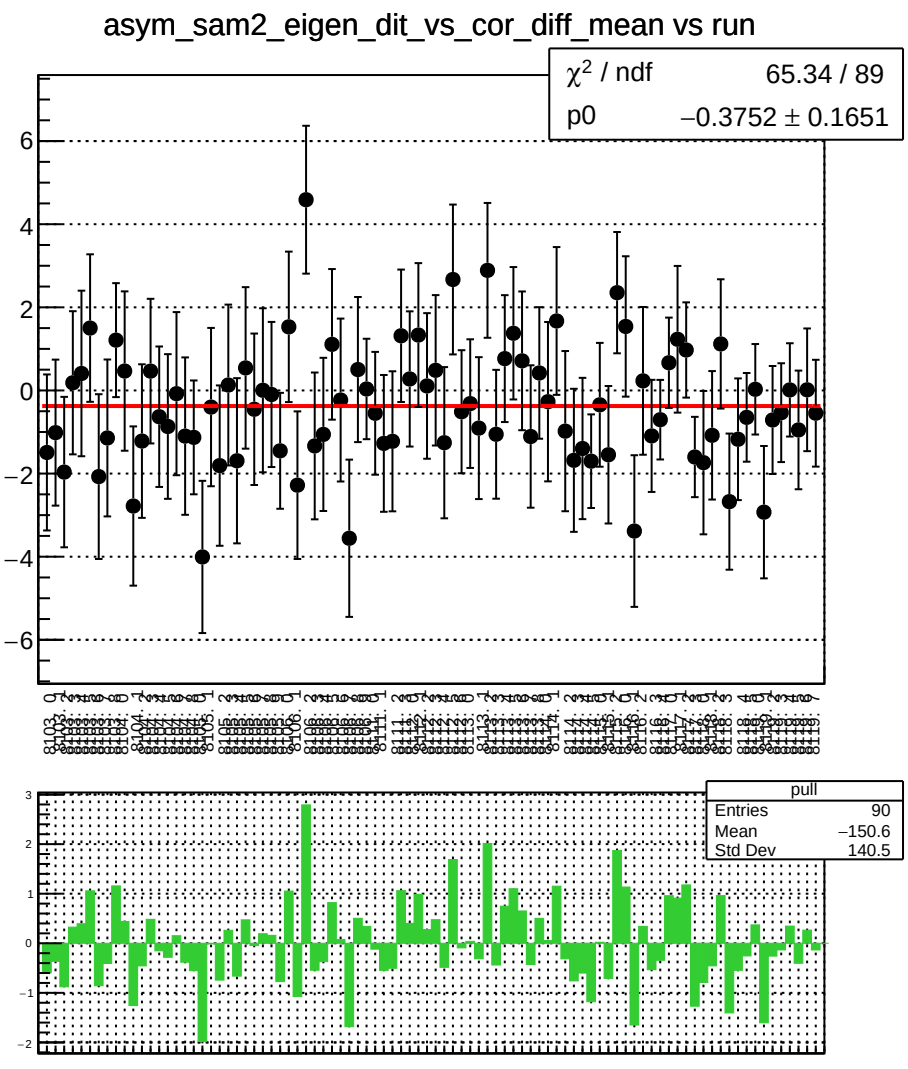

pull1D
Entries 90
Mean −0.001675
Std Dev 0.8521

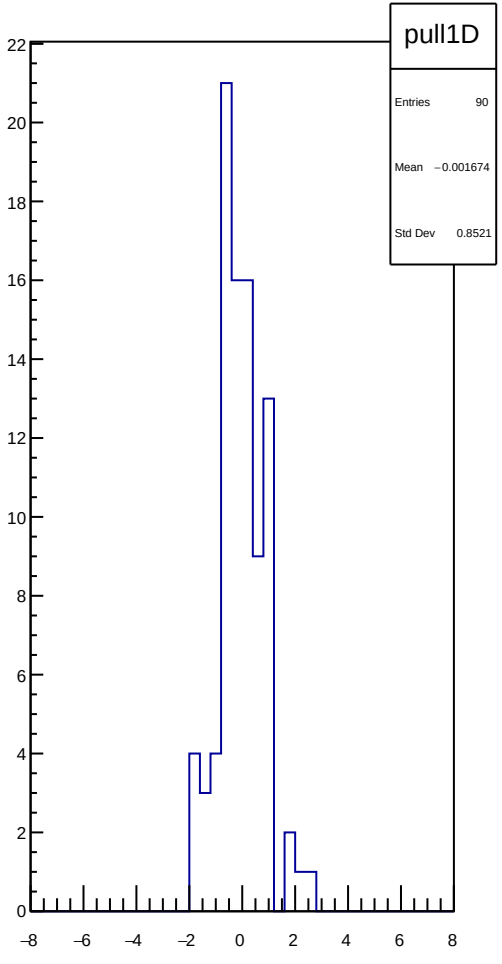

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.093e+04 / 89
p0 153 ± 0.1167
180
160
140
120
100

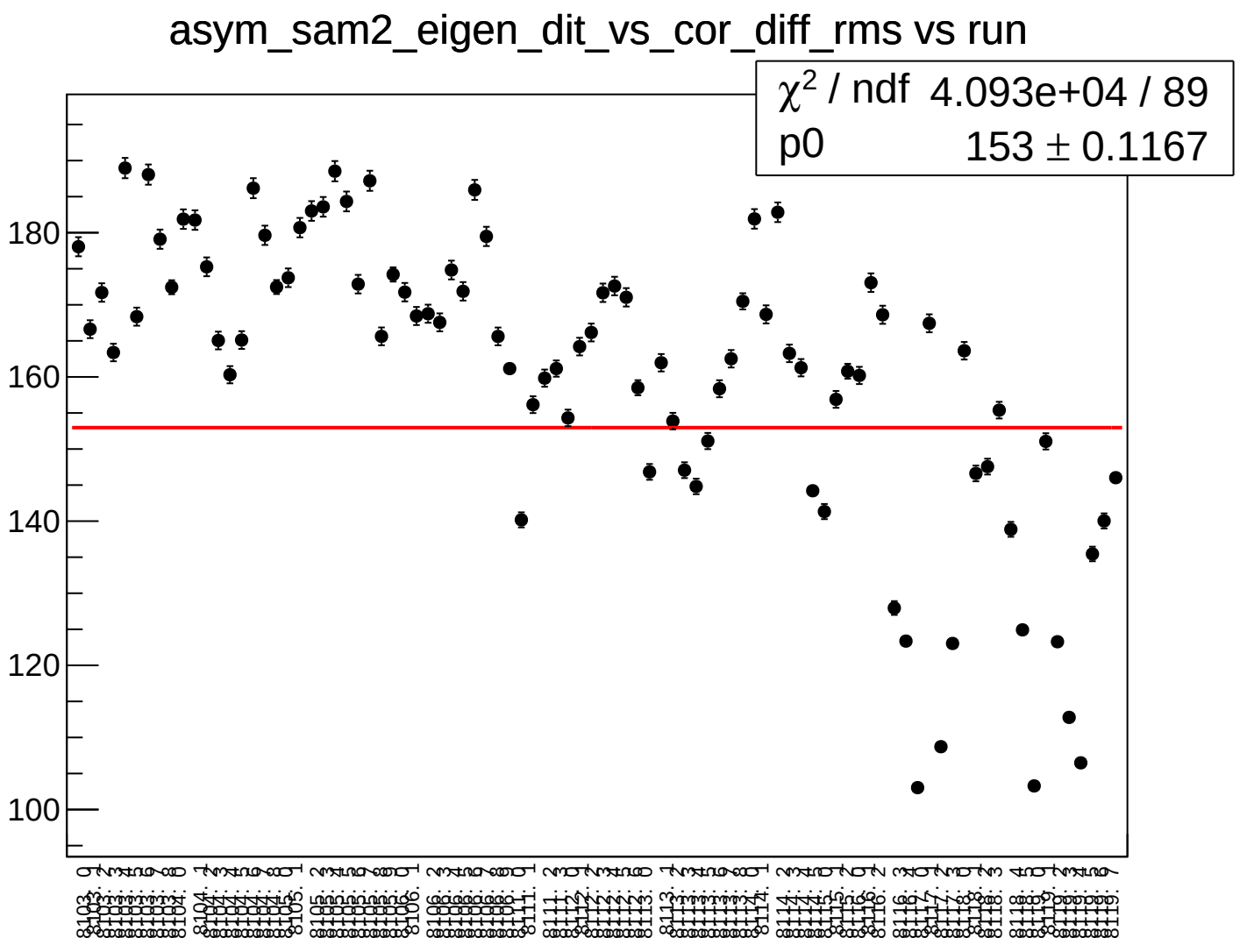

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.55 / 89
p0 2.323e−05 ± 6.487e−06
pull
Entries 90
Mean −2612
Std Dev 0

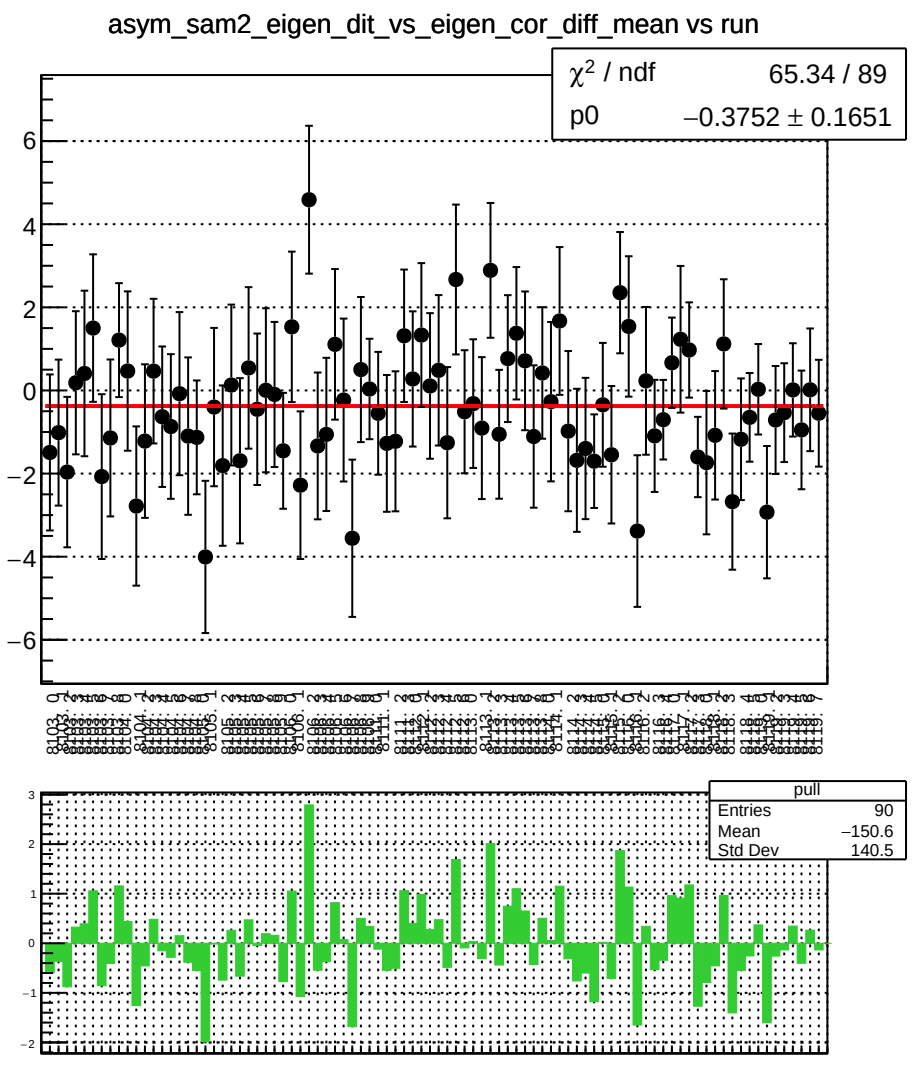

pull1D
Entries 90
Mean 0.001399
Std Dev 1.046

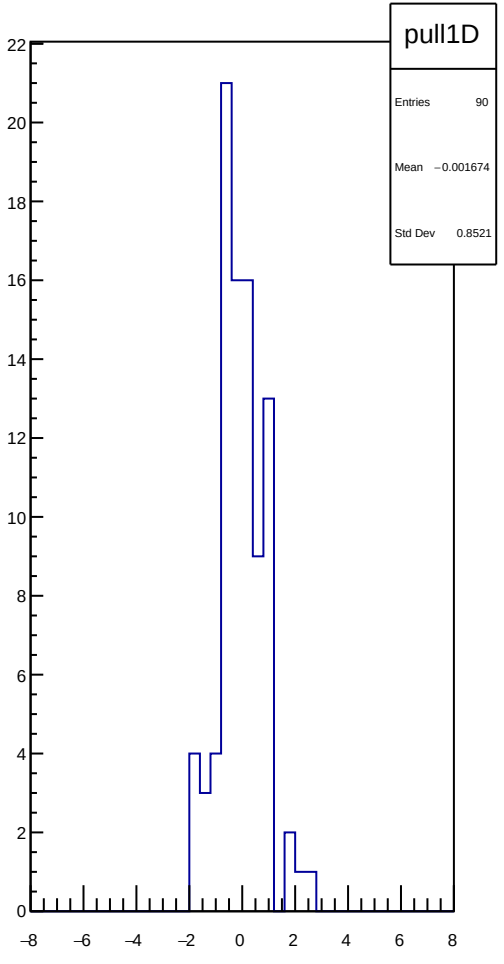

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3794 / 89
p0 0.006076 ± 4.587e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

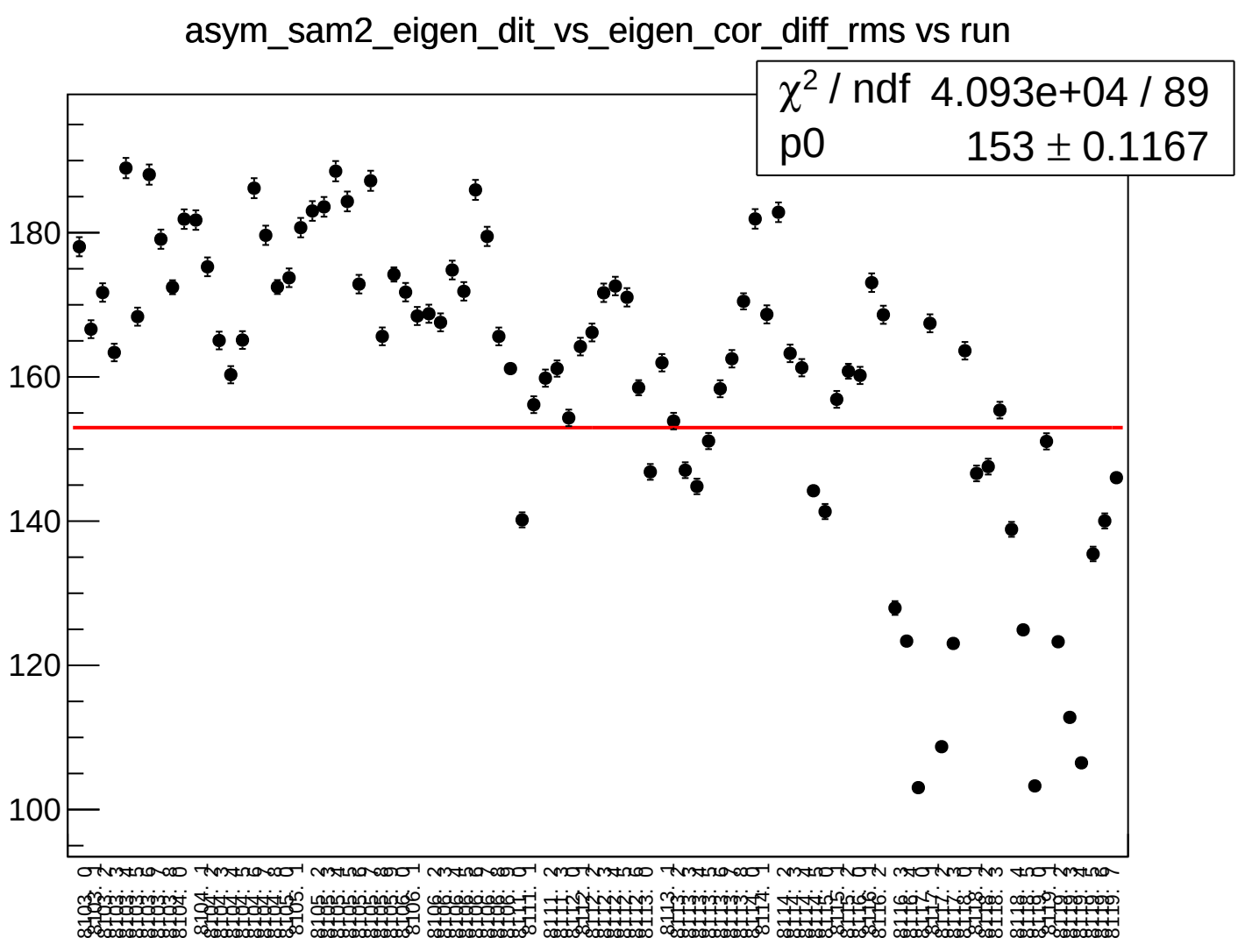

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.34 / 89
p0 −0.3752 ± 0.1651
pull
Entries 90
Mean −150.6
Std Dev 140.5

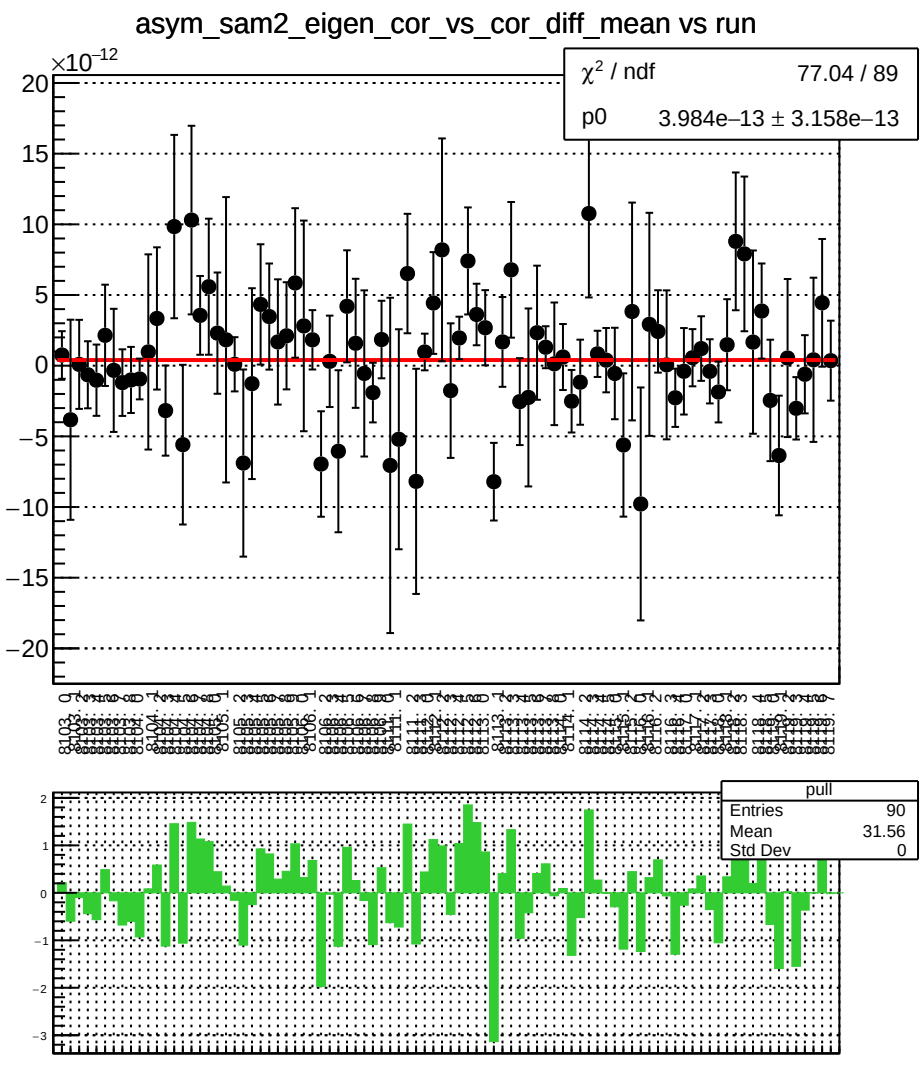

pull1D
Entries 90
Mean −0.001674
Std Dev 0.8521

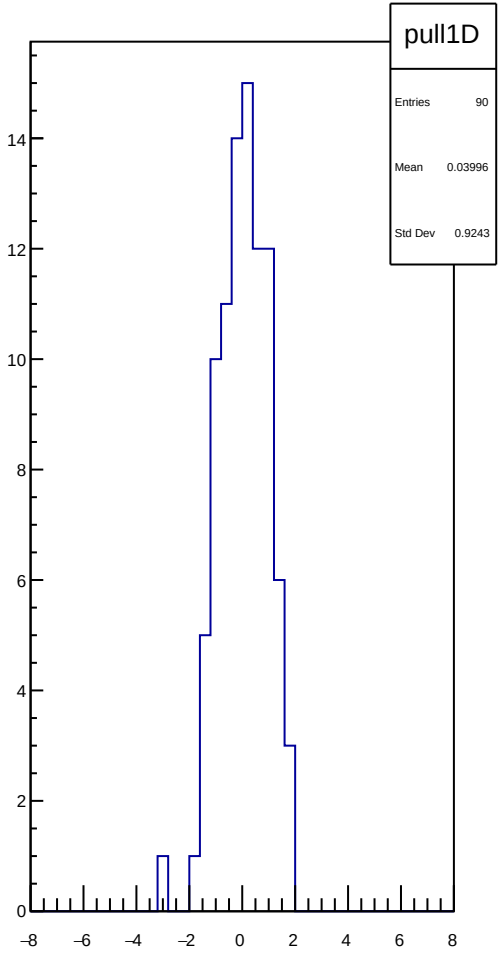

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.093e+04 / 89
p0 153 ± 0.1167
180
160
140
120
100

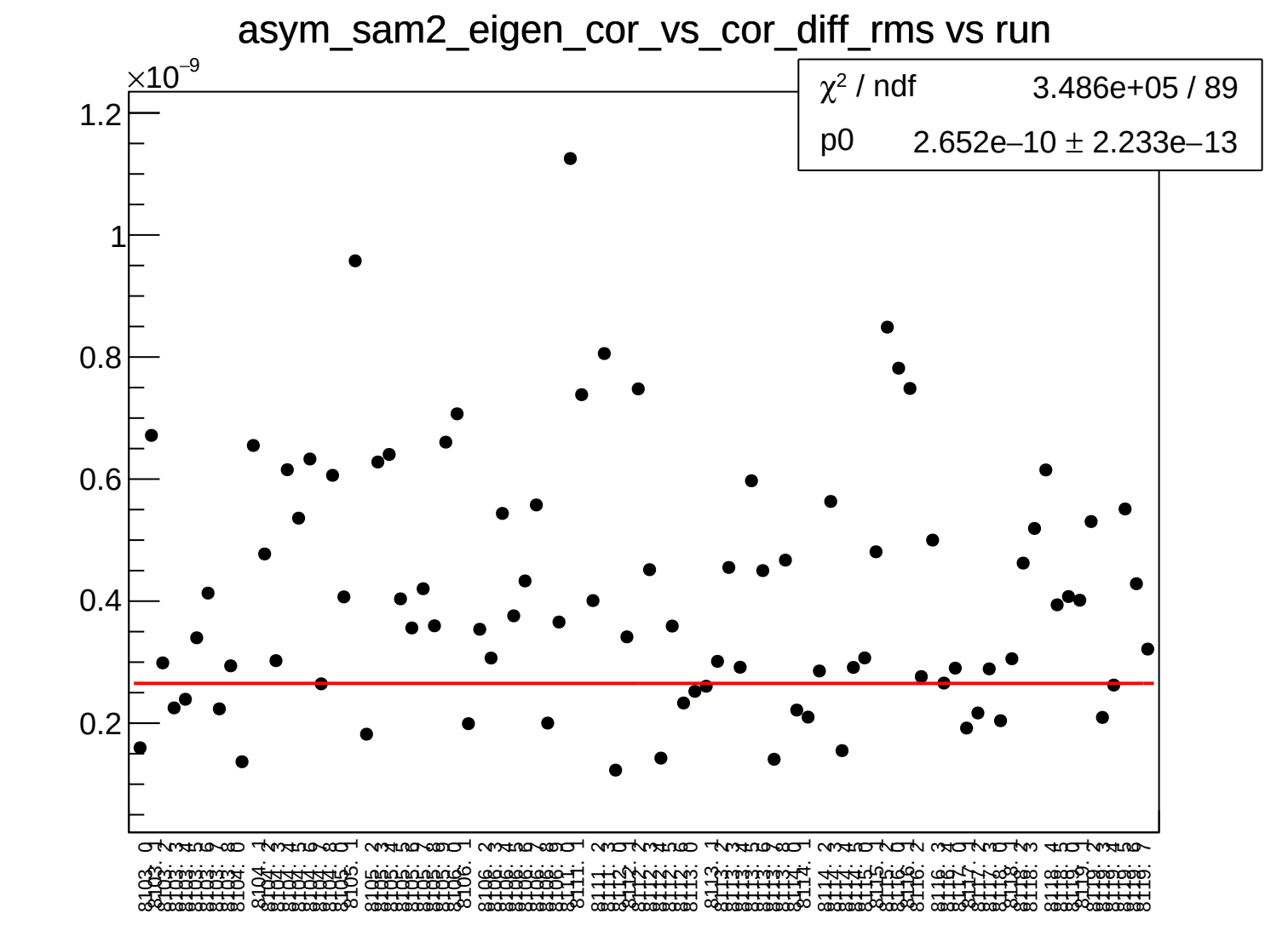

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.34 / 89
p0 −0.3752 ± 0.1651
pull
Entries 90
Mean −150.6
Std Dev 140.5

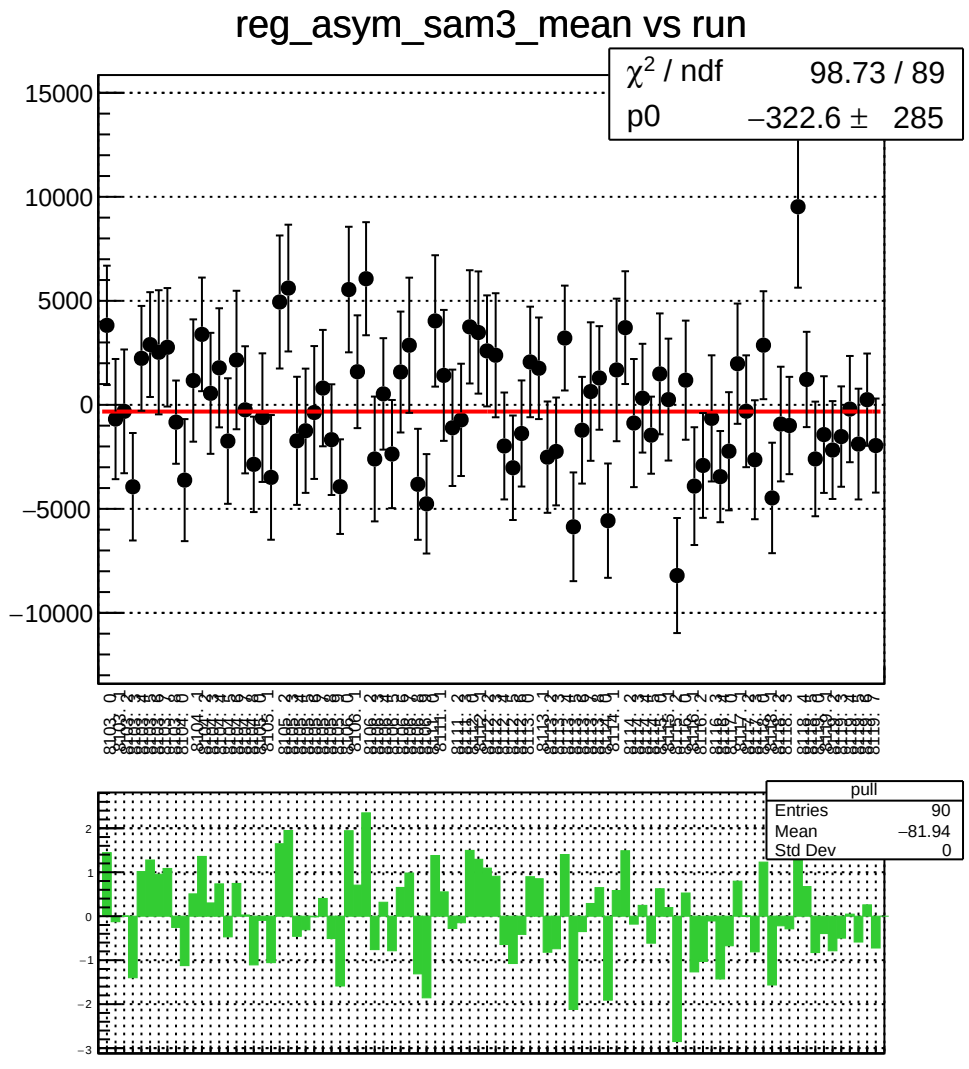

pull1D
Entries 90
Mean −0.001674
Std Dev 0.8521

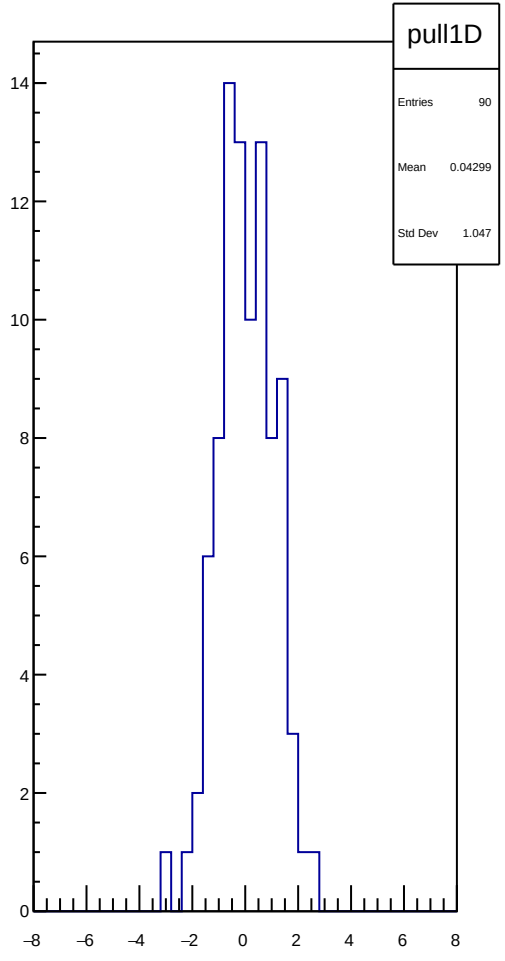

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.093e+04 / 89
p0 153 ± 0.1167
180
160
140
120
100

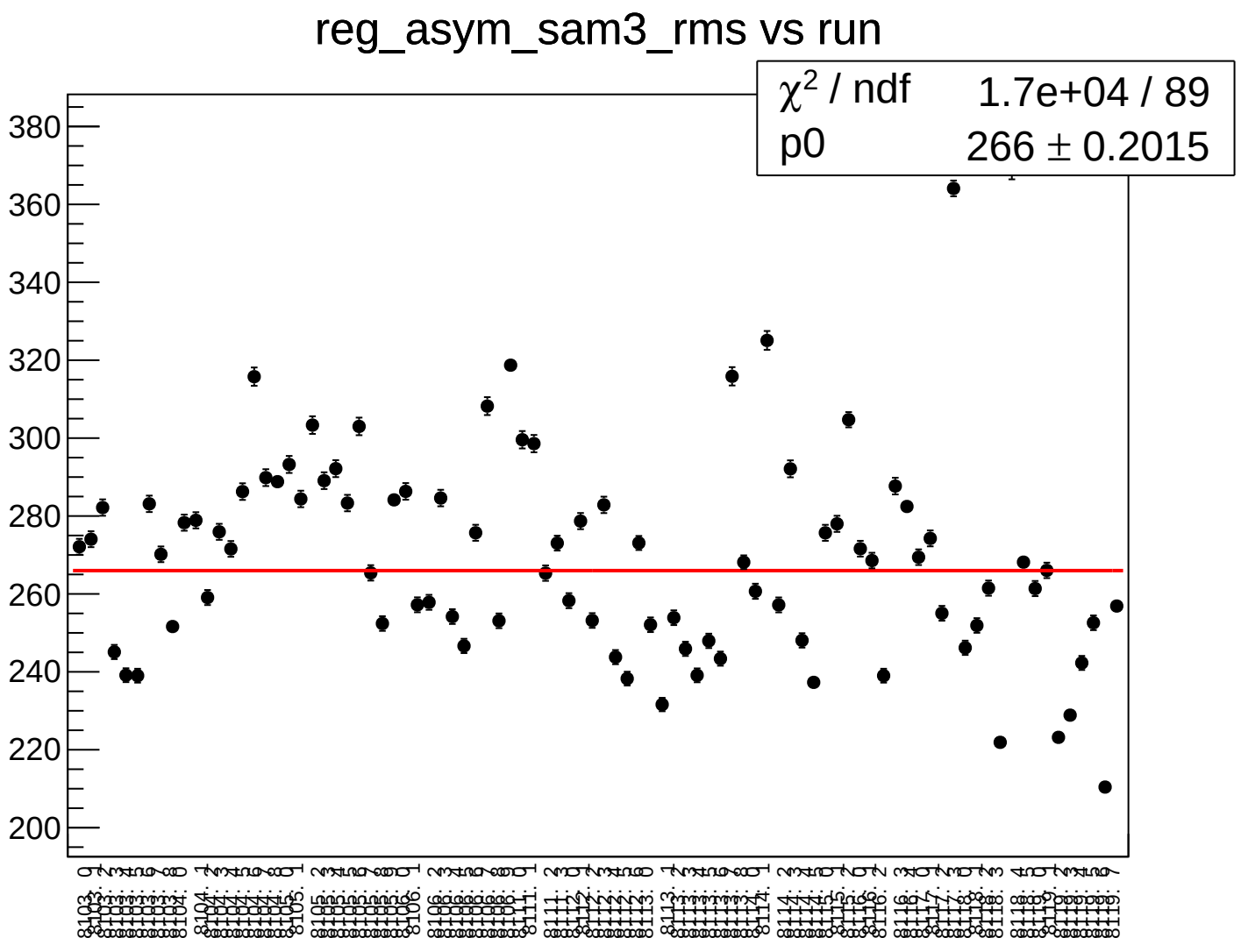

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.04 / 89
p0 3.984e−13 ± 3.158e−13
pull
Entries 90
Mean 31.56
Std Dev 0

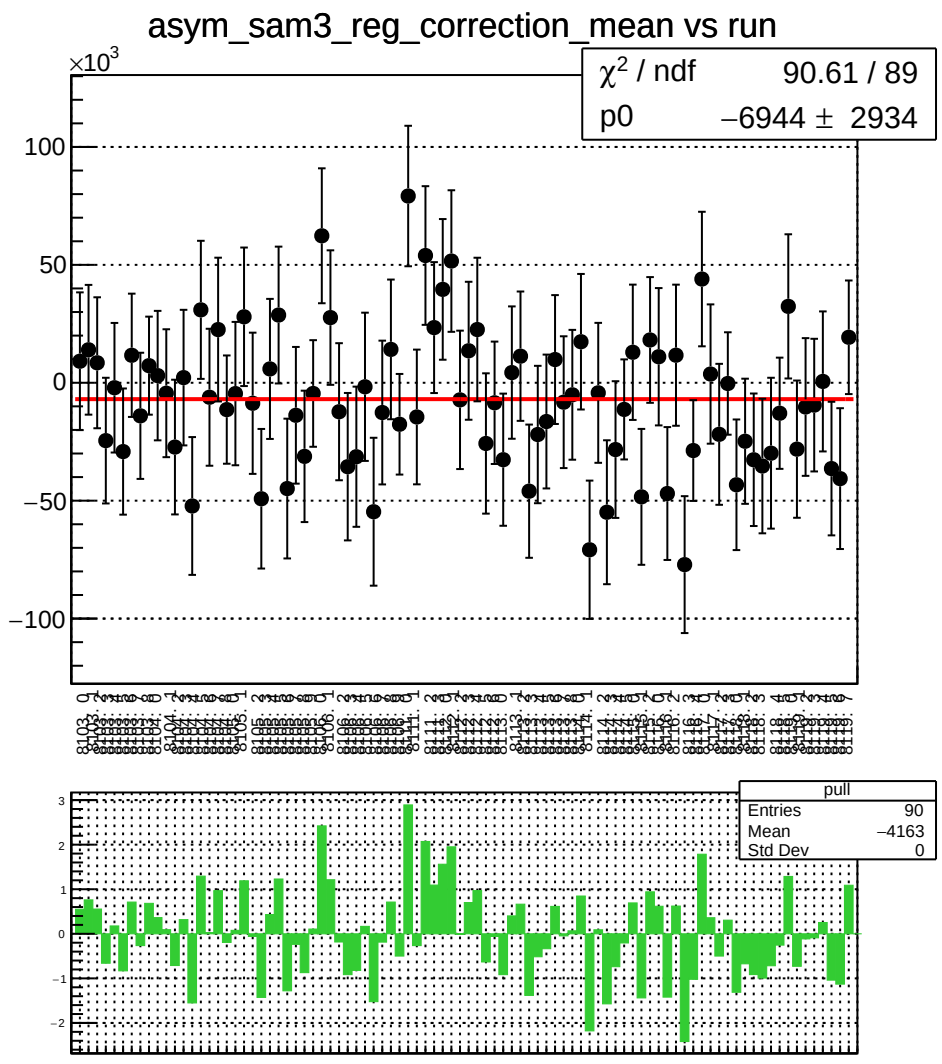

pull1D
Entries 90
Mean 0.03996
Std Dev 0.9243

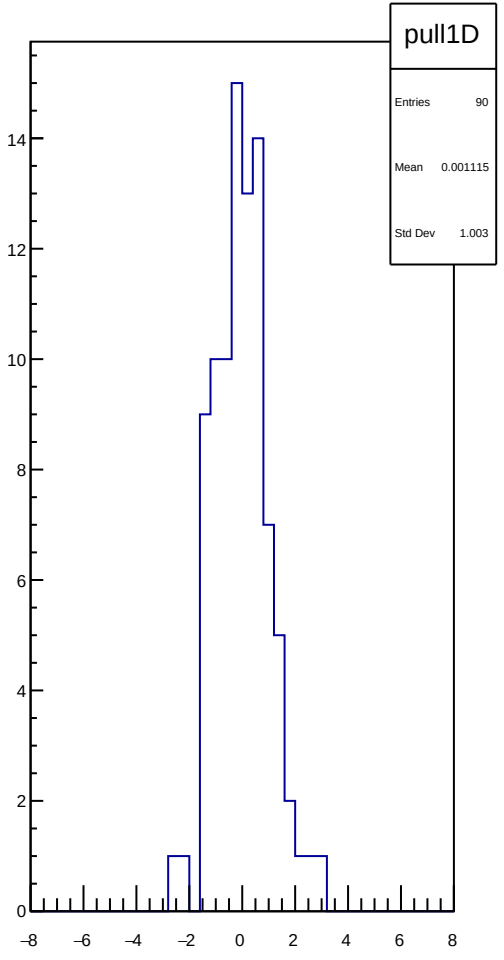

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.486e+05 / 89
p0 2.652e−10 ± 2.233e−13
1.2
1
0.8
0.6
0.4
0.2

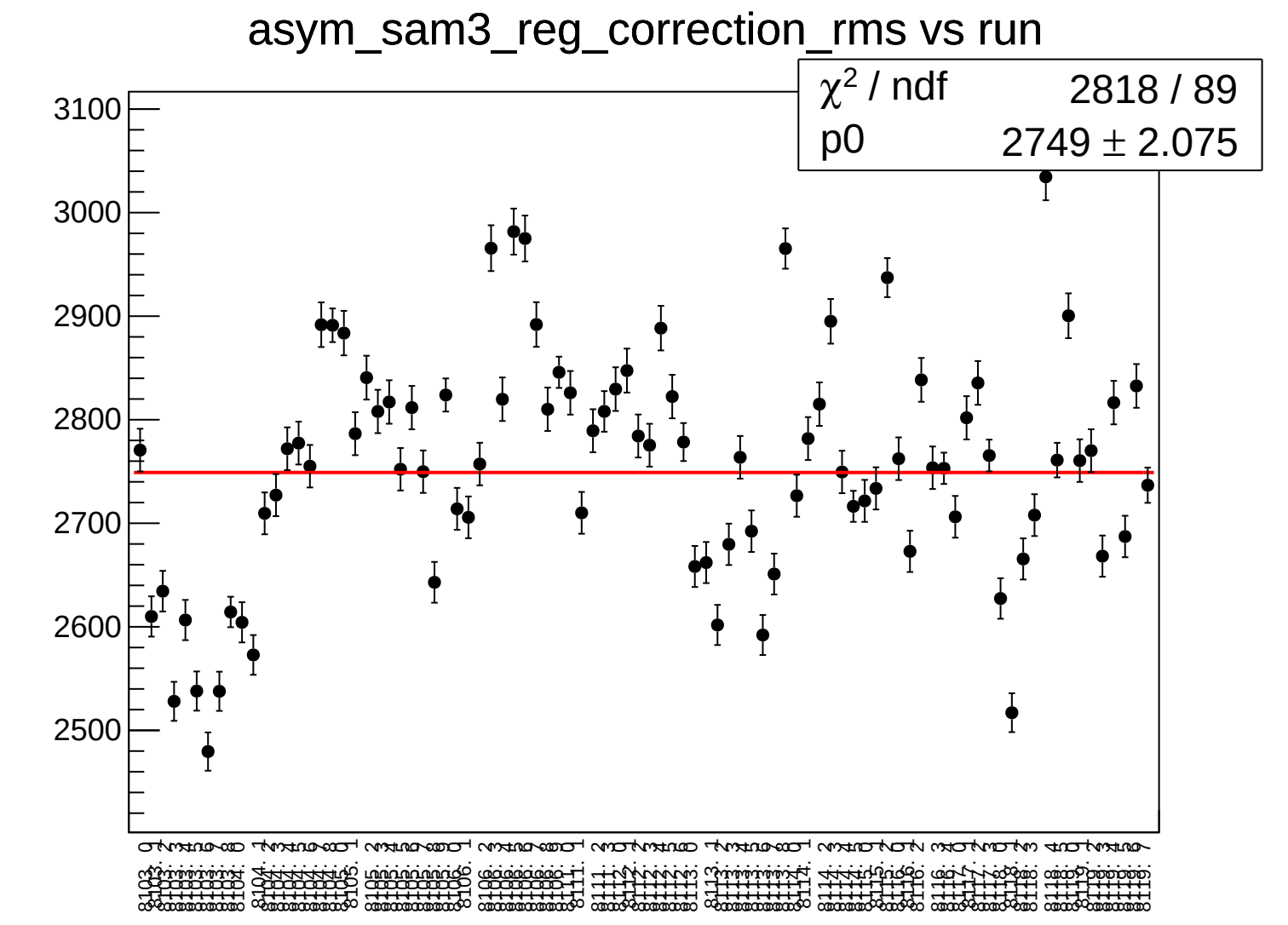

reg_asym_sam3_mean vs run
χ² / ndf 98.73 / 89
p0 −322.6 ± 285
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −81.94
Std Dev 0
2
1
0
−1
−2
−3

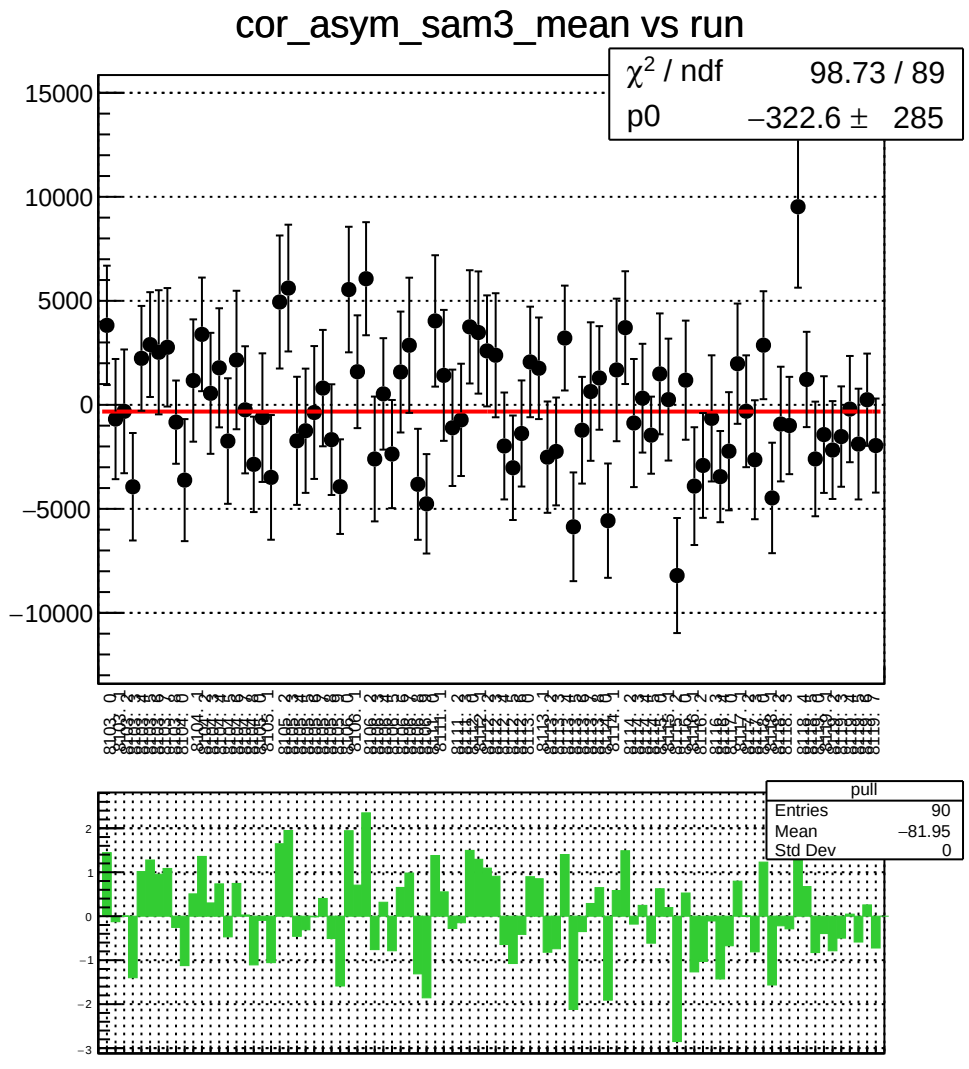

pull1D
Entries 90
Mean 0.04299
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

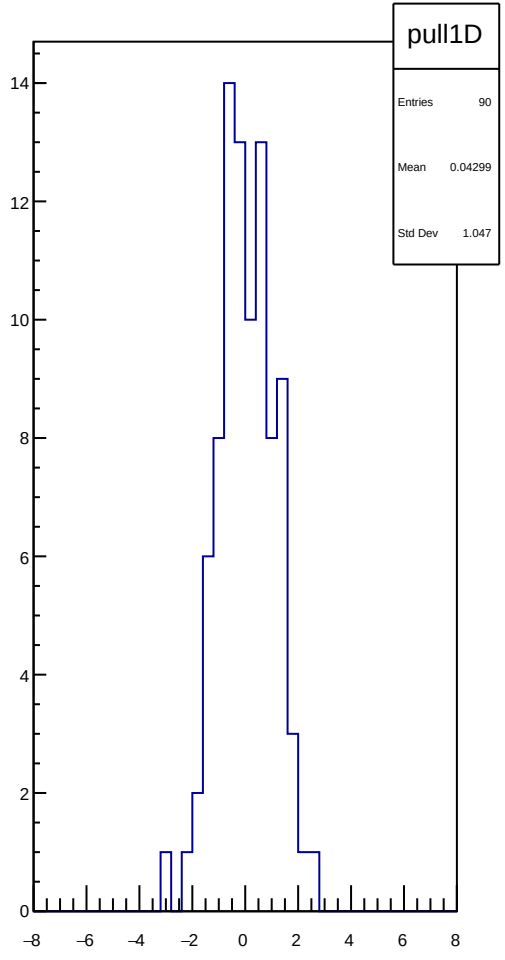

reg_asym_sam3_rms vs run
χ² / ndf 1.7e+04 / 89
p0 266 ± 0.2015
380
360
340
320
300
280
260
240
220
200

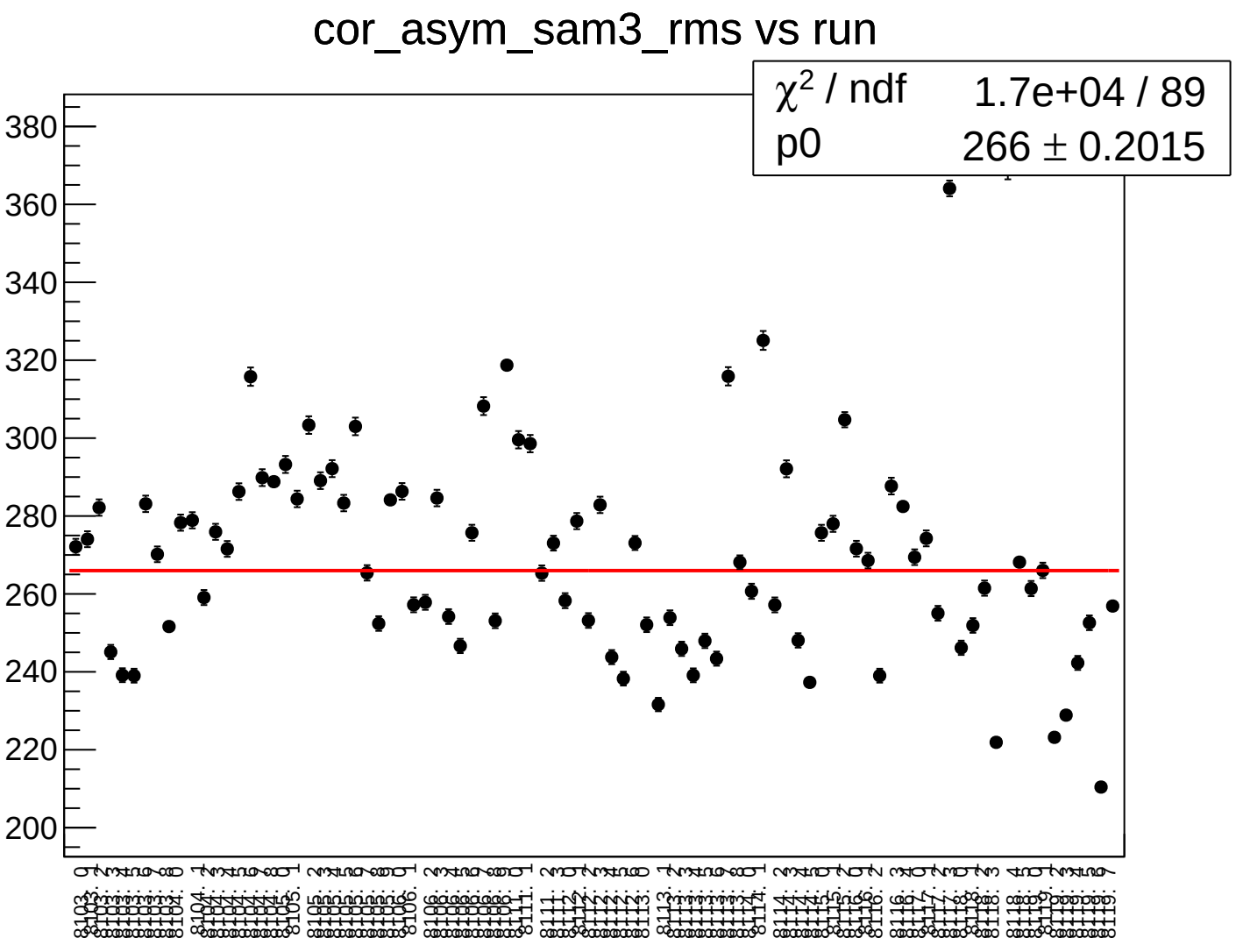

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 90.61 / 89
p0 −6944 ± 2934
100
50
0
−50
−100
pull
Entries 90
Mean −4163
Std Dev 0
3
2
1
0
−1
−2

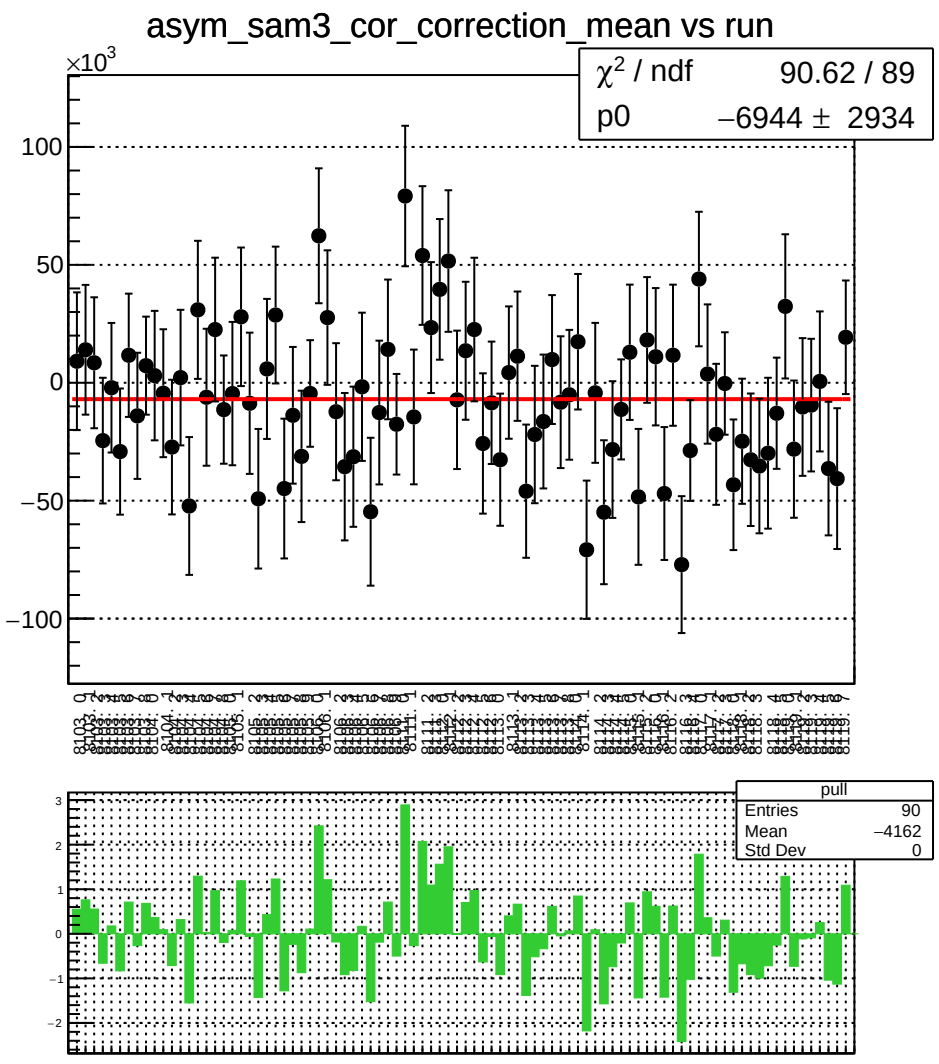

pull1D
Entries 90
Mean 0.001115
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

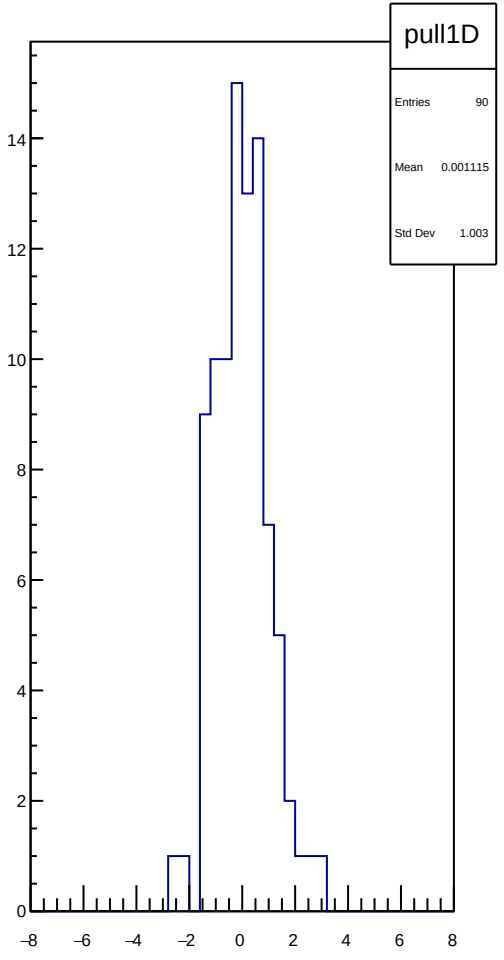

asym_sam3_reg_correction_rms vs run
χ² / ndf 2818 / 89
p0 2749 ± 2.075
3100
3000
2900
2800
2700
2600
2500

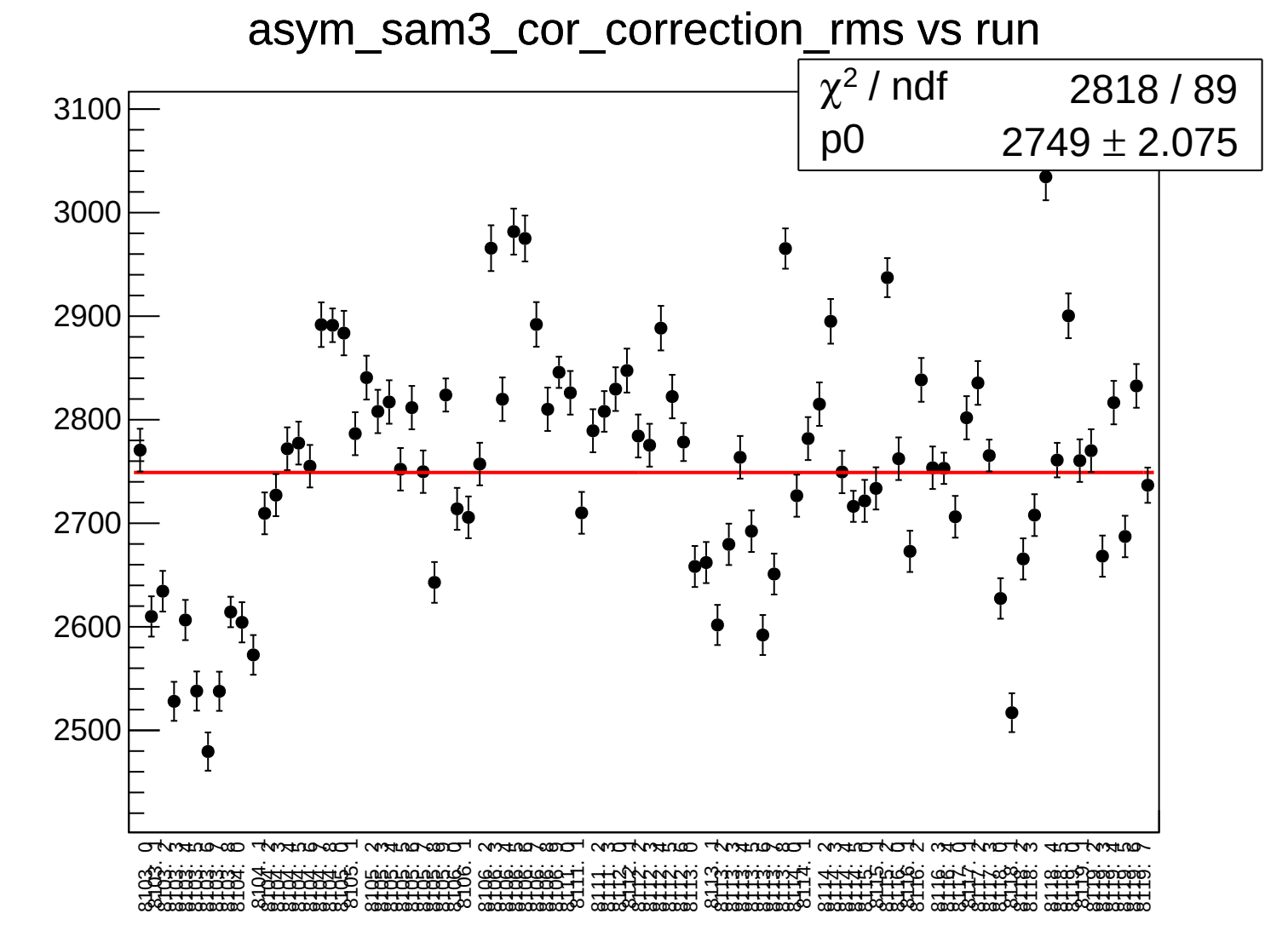

cor_asym_sam3_mean vs run
χ² / ndf 98.73 / 89
p0 −322.6 ± 285
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −81.95
Std Dev 0
2
1
0
−1
−2
−3

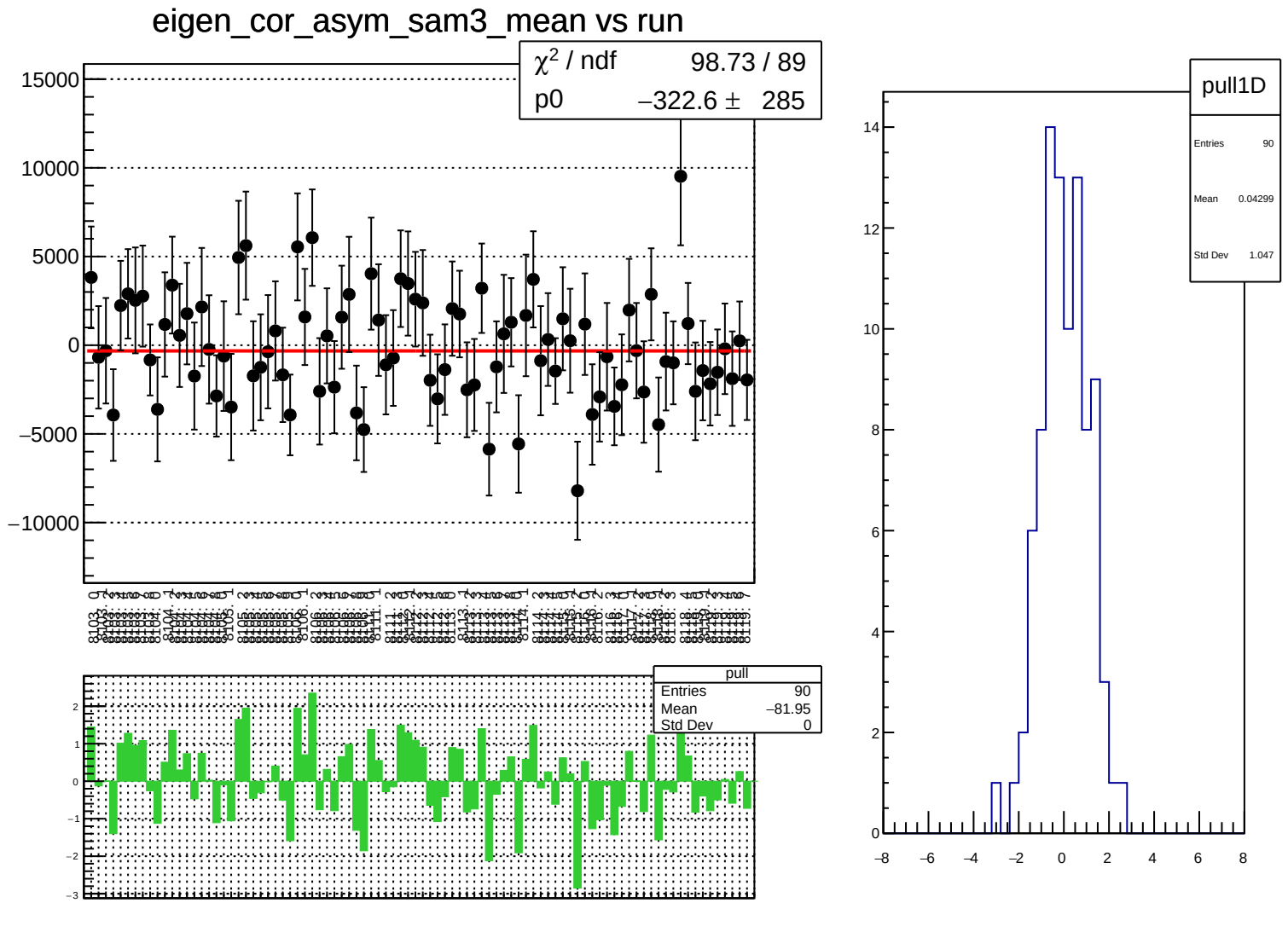

pull1D
Entries 90
Mean 0.04299
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

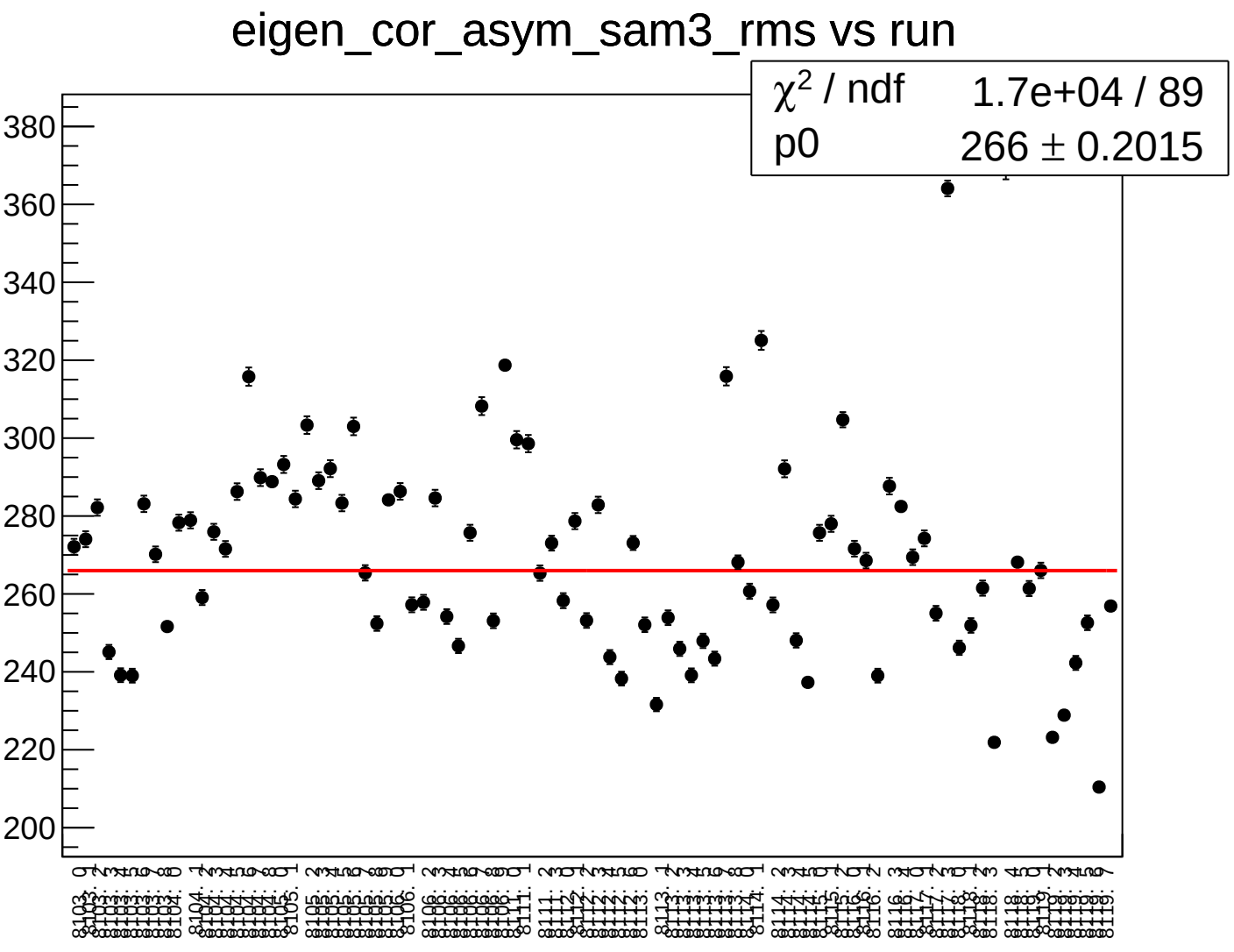

cor_asym_sam3_rms vs run
χ² / ndf 1.7e+04 / 89
p0 266 ± 0.2015
380
360
340
320
300
280
260
240
220
200

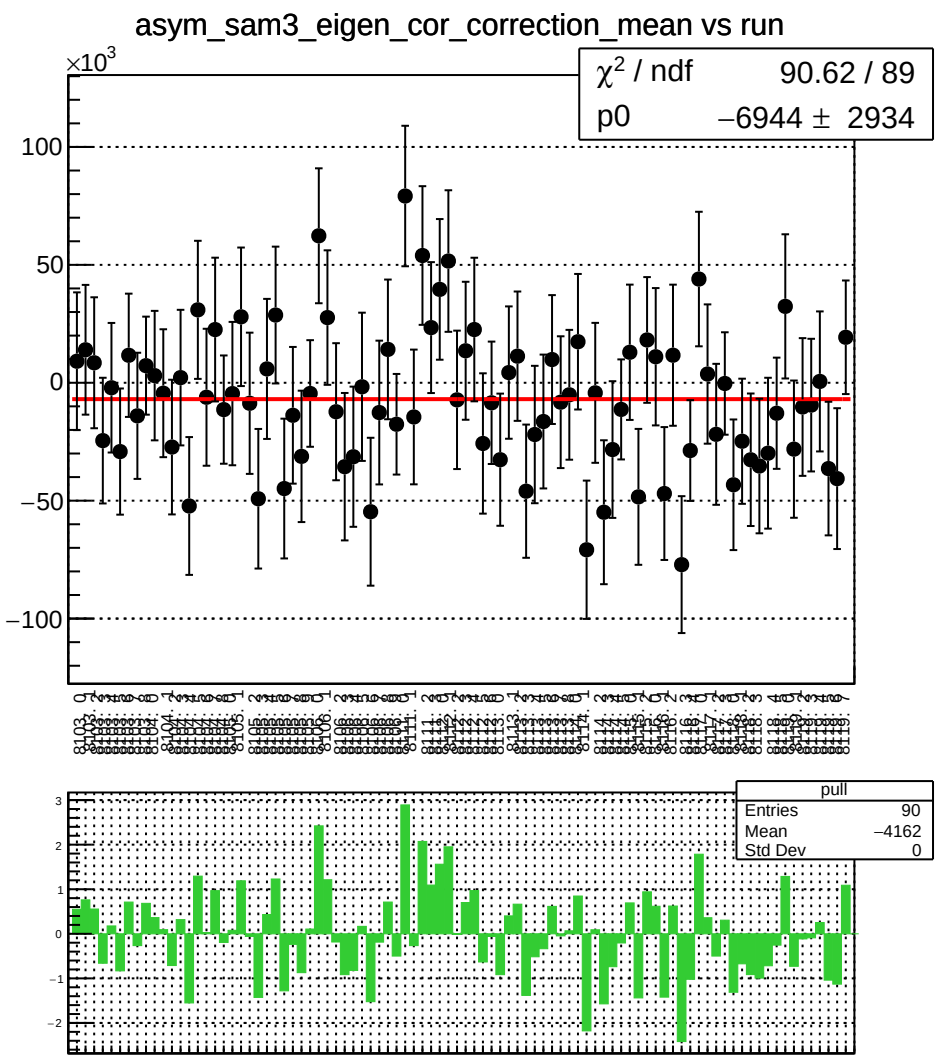

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 90.62 / 89
p0 −6944 ± 2934
100
50
0
−50
−100
pull
Entries 90
Mean −4162
Std Dev 0
3
2
1
0
−1
−2

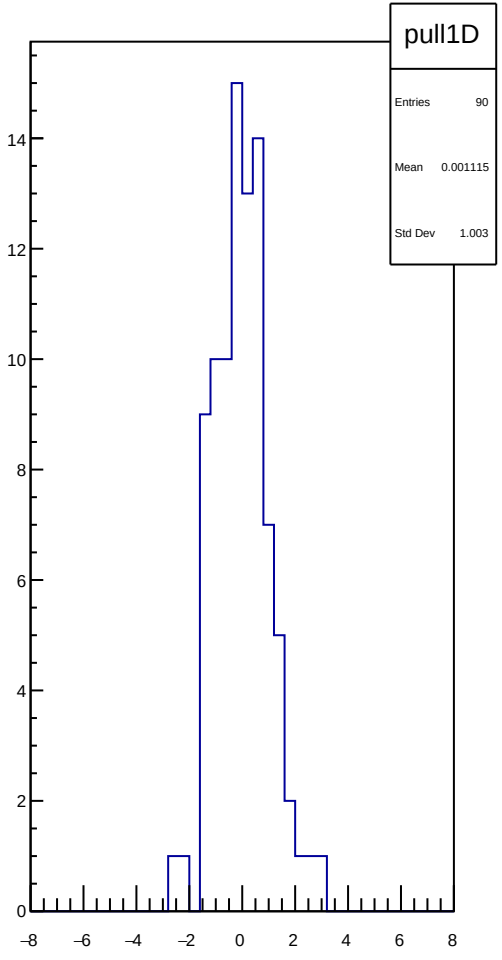

pull1D
Entries 90
Mean 0.001115
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

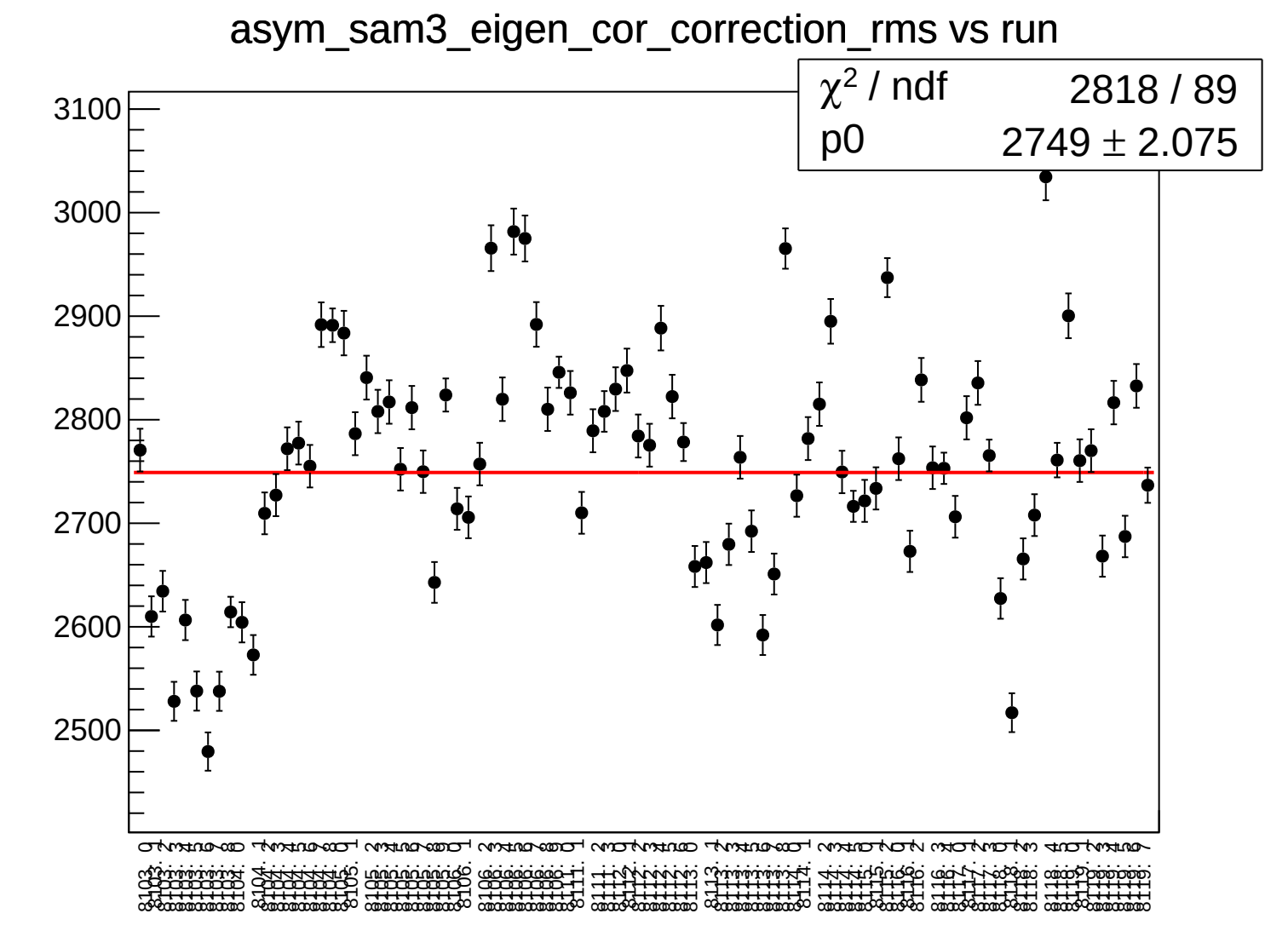

asym_sam3_cor_correction_rms vs run
χ² / ndf 2818 / 89
p0 2749 ± 2.075
3100
3000
2900
2800
2700
2600
2500

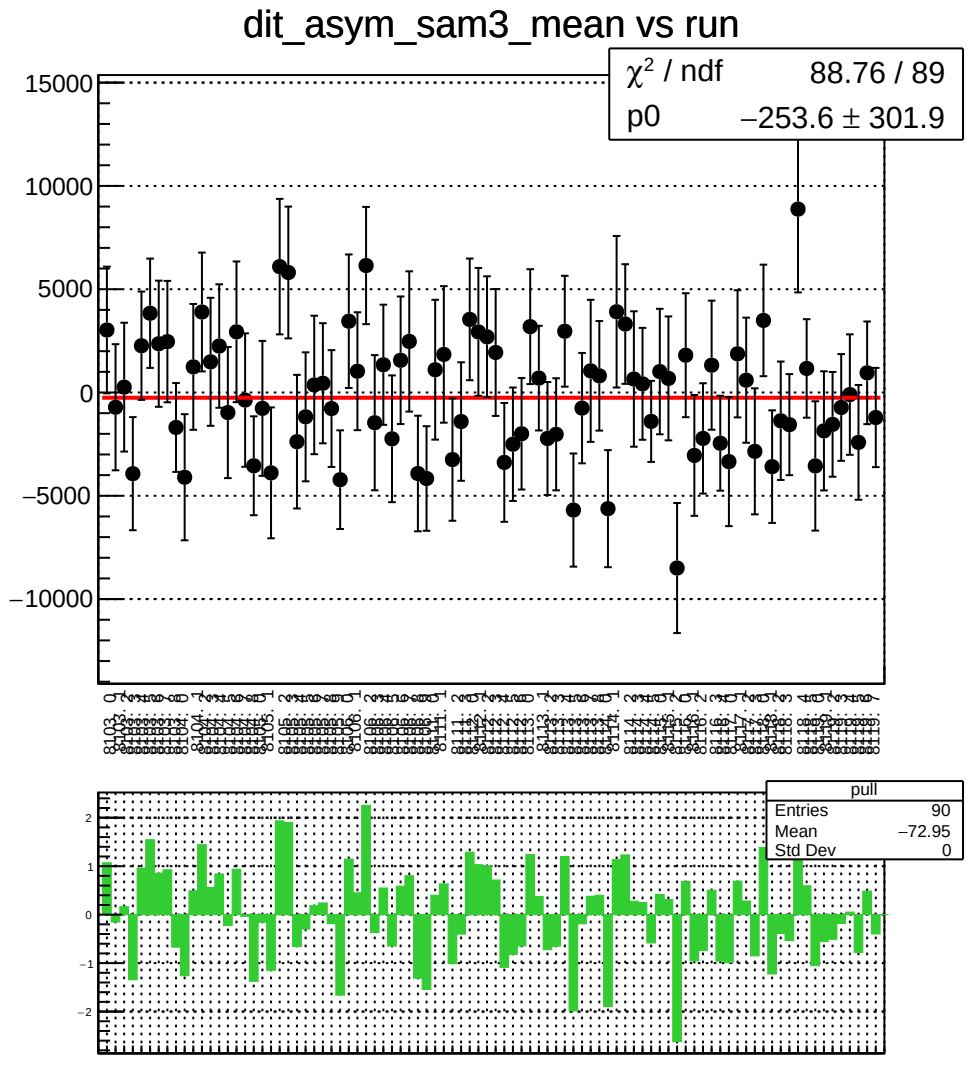

eigen_cor_asym_sam3_mean vs run
χ² / ndf 98.73 / 89
p0 −322.6 ± 285
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −81.95
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.04299
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

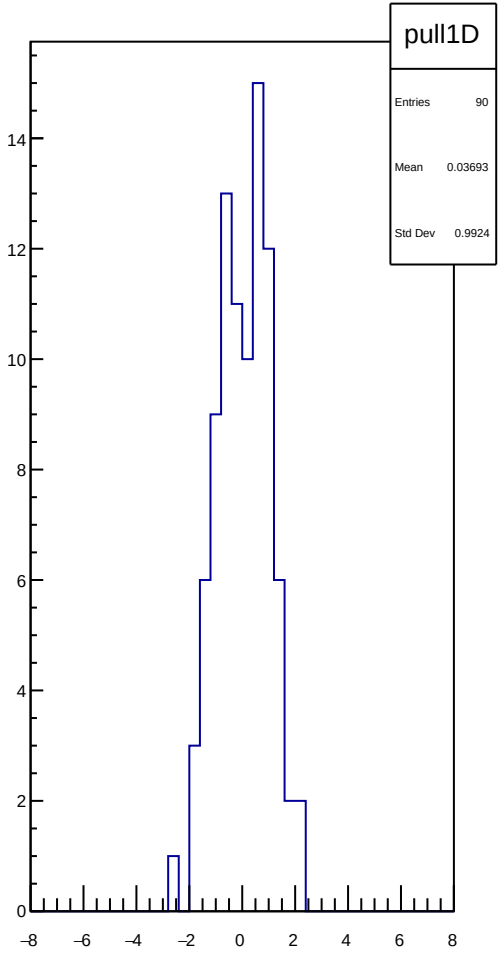

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.7e+04 / 89
p0 266 ± 0.2015
380
360
340
320
300
280
260
240
220
200

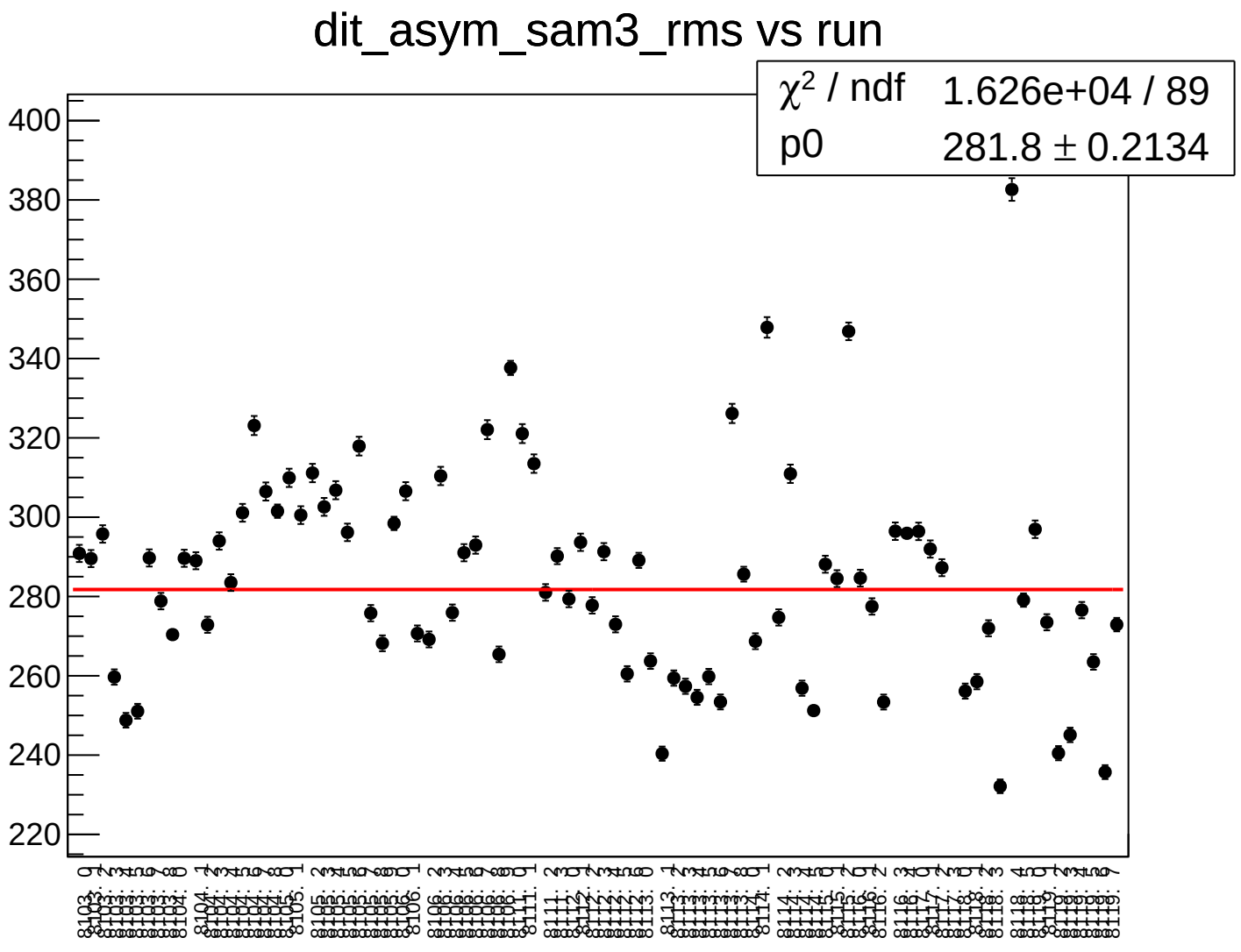

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.62 / 89
p0 −6944 ± 2934
100
50
0
−50
−100
pull
Entries 90
Mean −4162
Std Dev 0
3
2
1
0
−1
−2

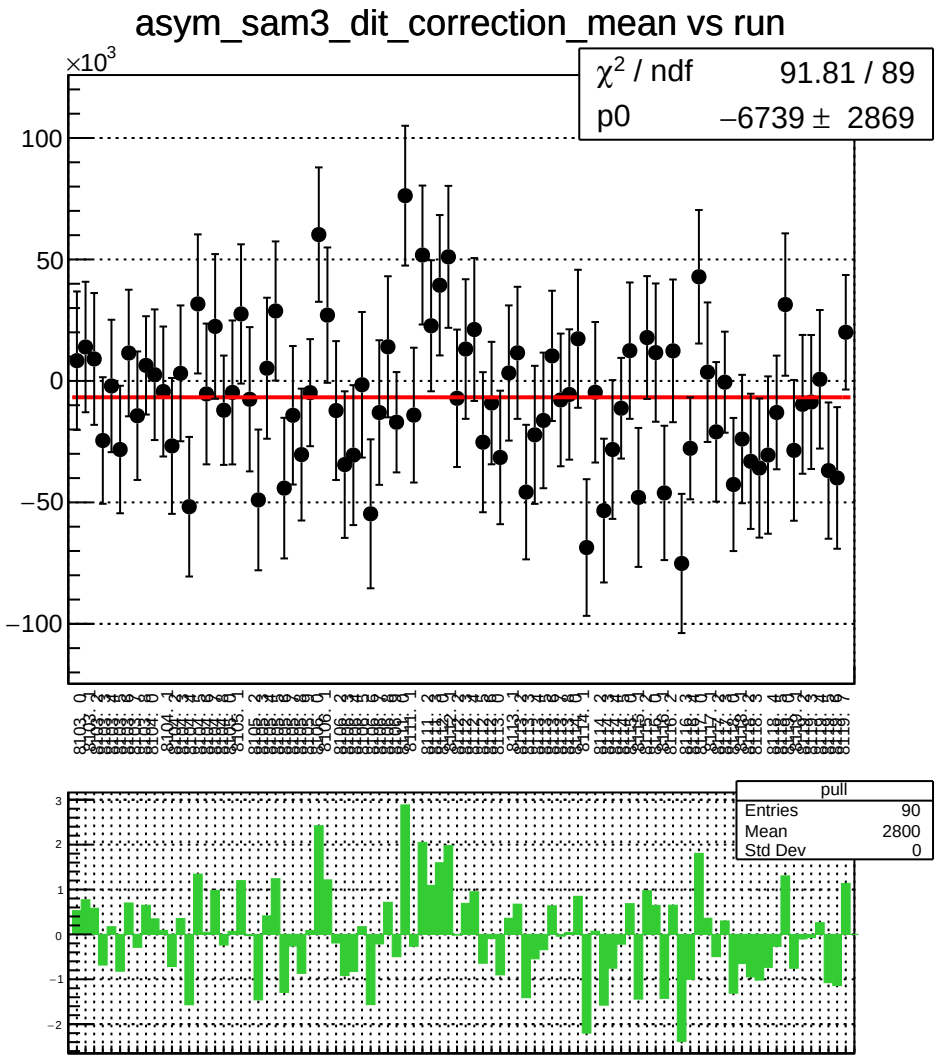

pull1D
Entries 90
Mean 0.001115
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

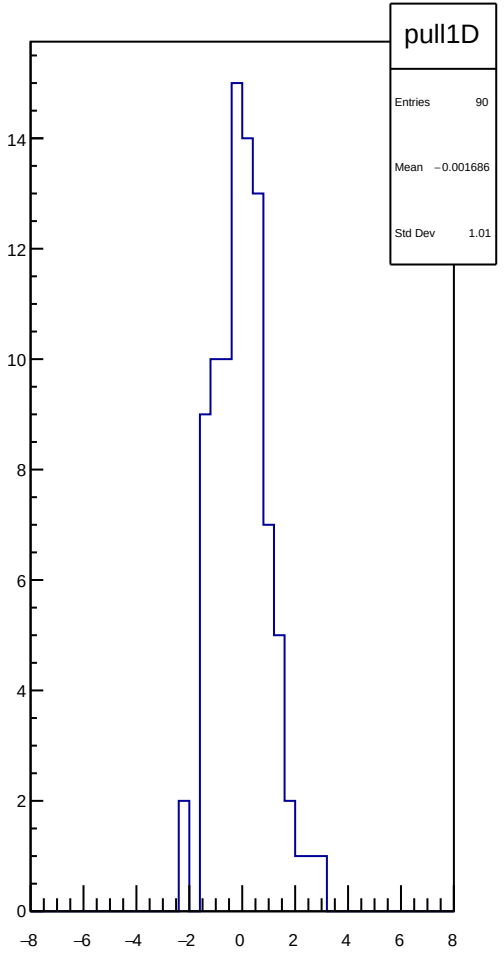

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 2818 / 89
p0 2749 ± 2.075
3100
3000
2900
2800
2700
2600
2500

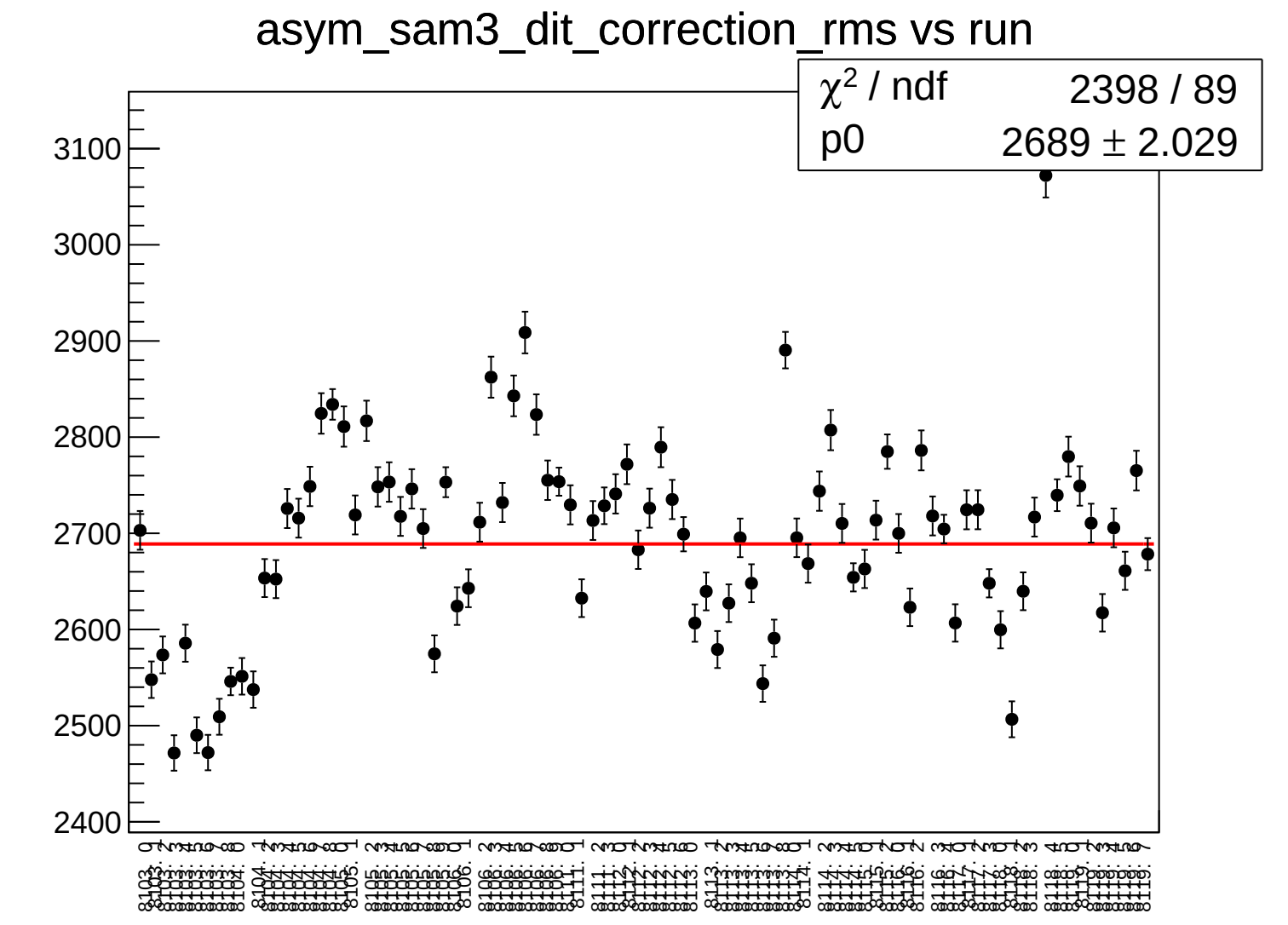

dit_asym_sam3_mean vs run
χ² / ndf 88.76 / 89
p0 −253.6 ± 301.9
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −72.95
Std Dev 0
2
1
0
−1
−2

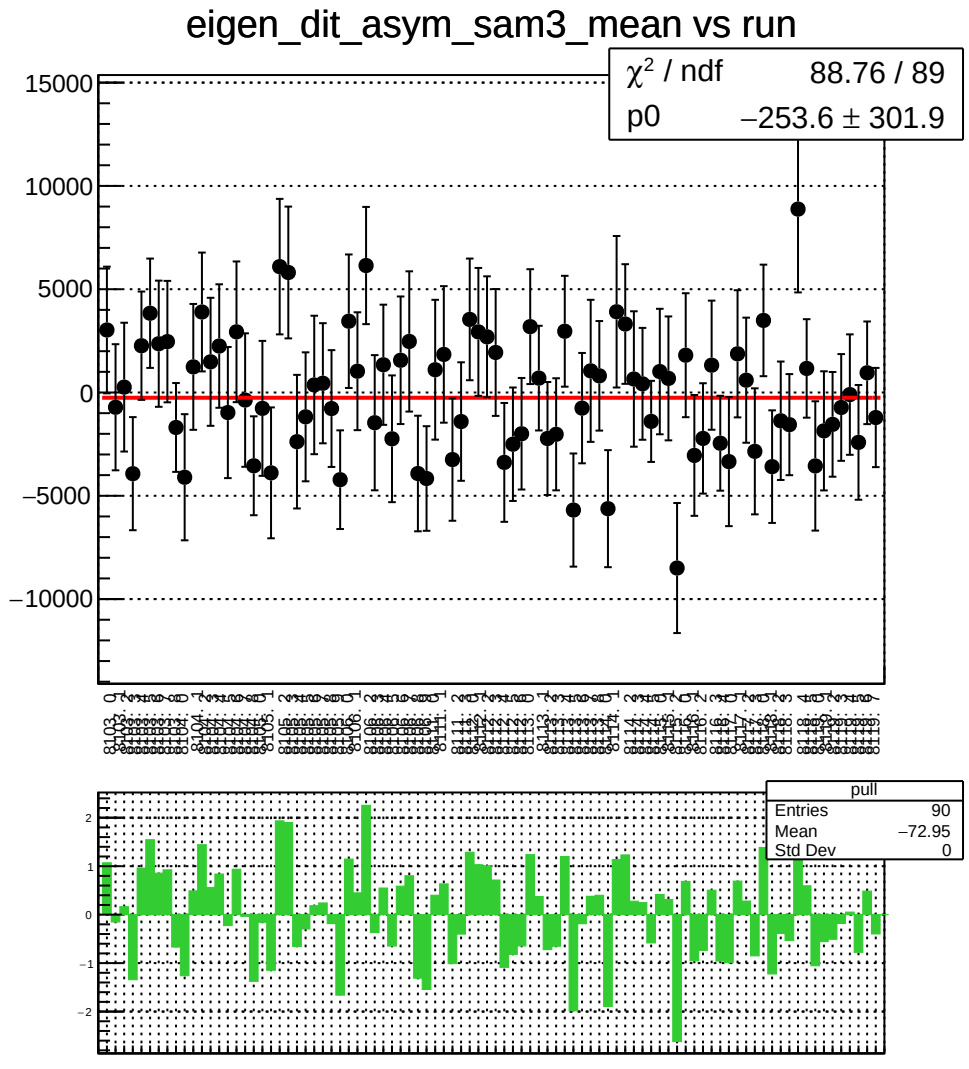

pull1D
Entries 90
Mean 0.03693
Std Dev 0.9924
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

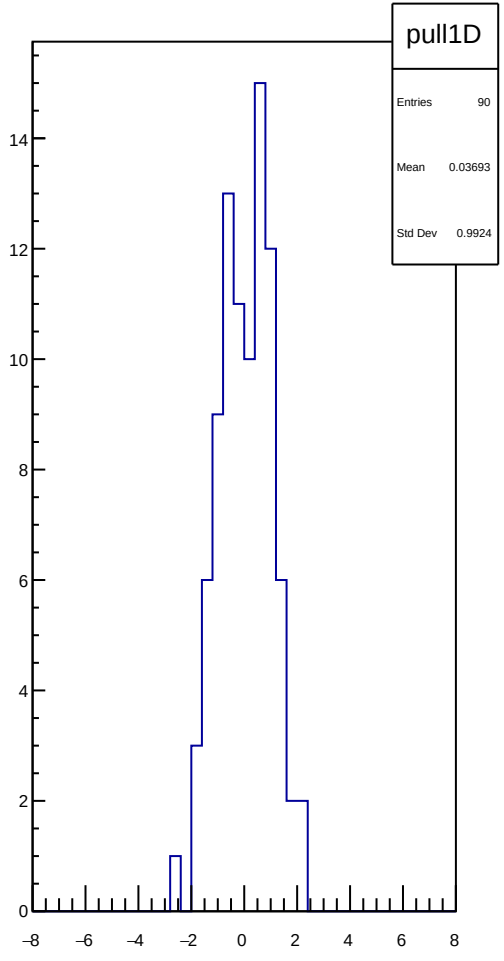

dit_asym_sam3_rms vs run
χ² / ndf 1.626e+04 / 89
p0 281.8 ± 0.2134
400
380
360
340
320
300
280
260
240
220

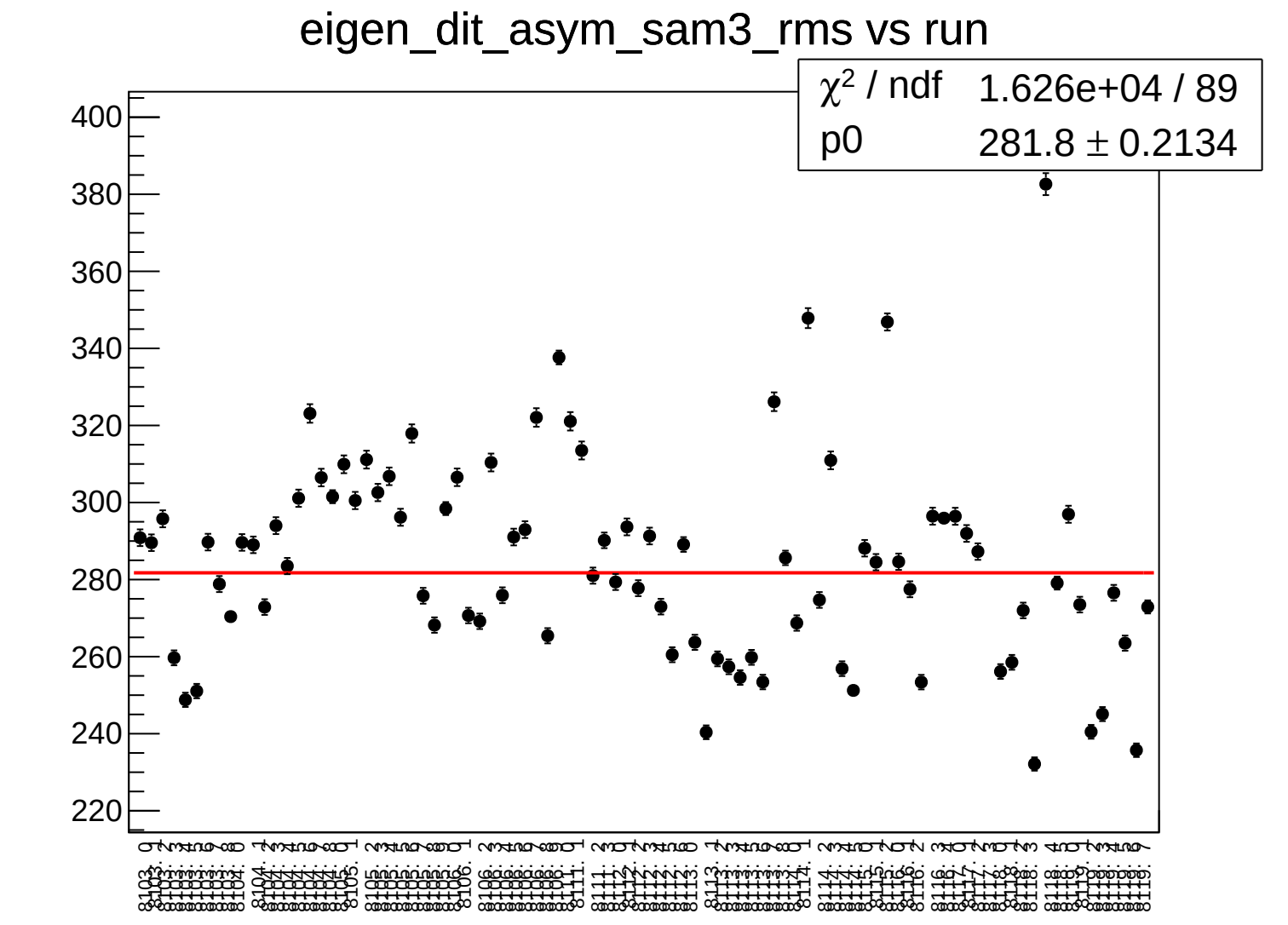

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 91.81 / 89
p0 −6739 ± 2869
100
50
0
−50
−100
pull
Entries 90
Mean 2800
Std Dev 0
3
2
1
0
−1
−2

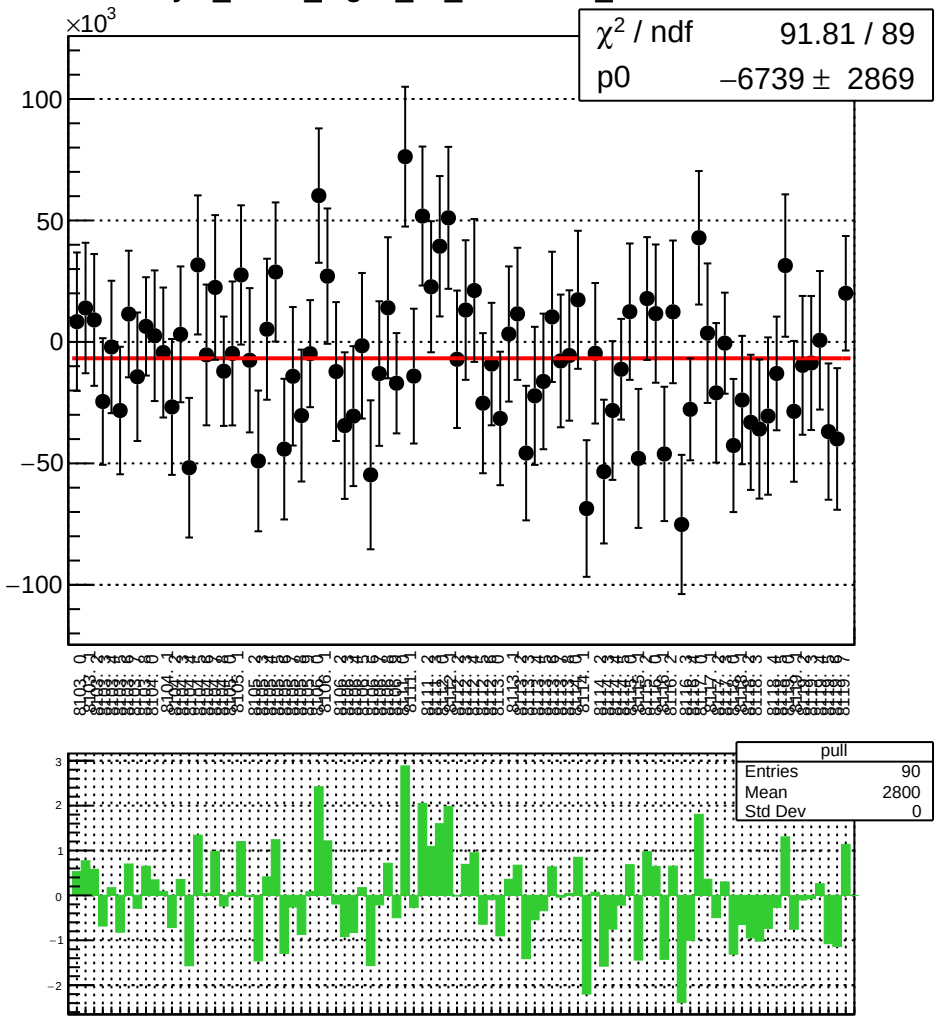

pull1D
Entries 90
Mean −0.001686
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

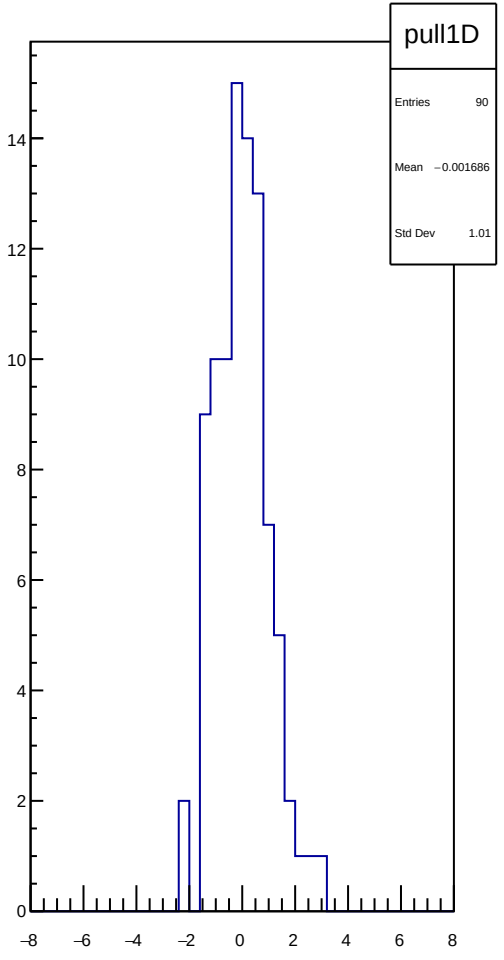

asym_sam3_dit_correction_rms vs run
χ² / ndf 2398 / 89
p0 2689 ± 2.029
3100
3000
2900
2800
2700
2600
2500
2400

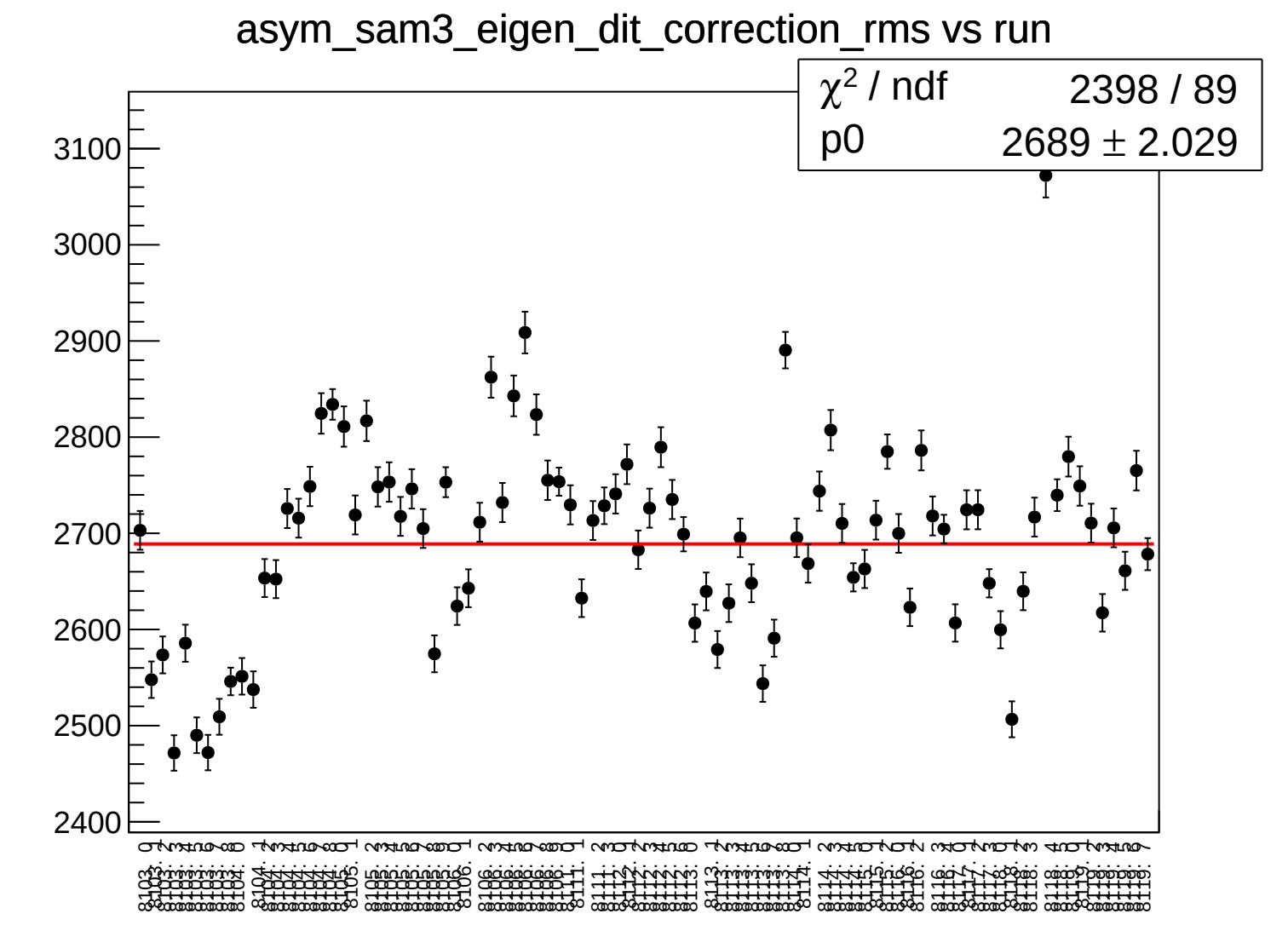

eigen_dit_asym_sam3_mean vs run
χ² / ndf 88.76 / 89
p0 −253.6 ± 301.9
15000
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −72.95
Std Dev 0
2
1
0
−1
−2

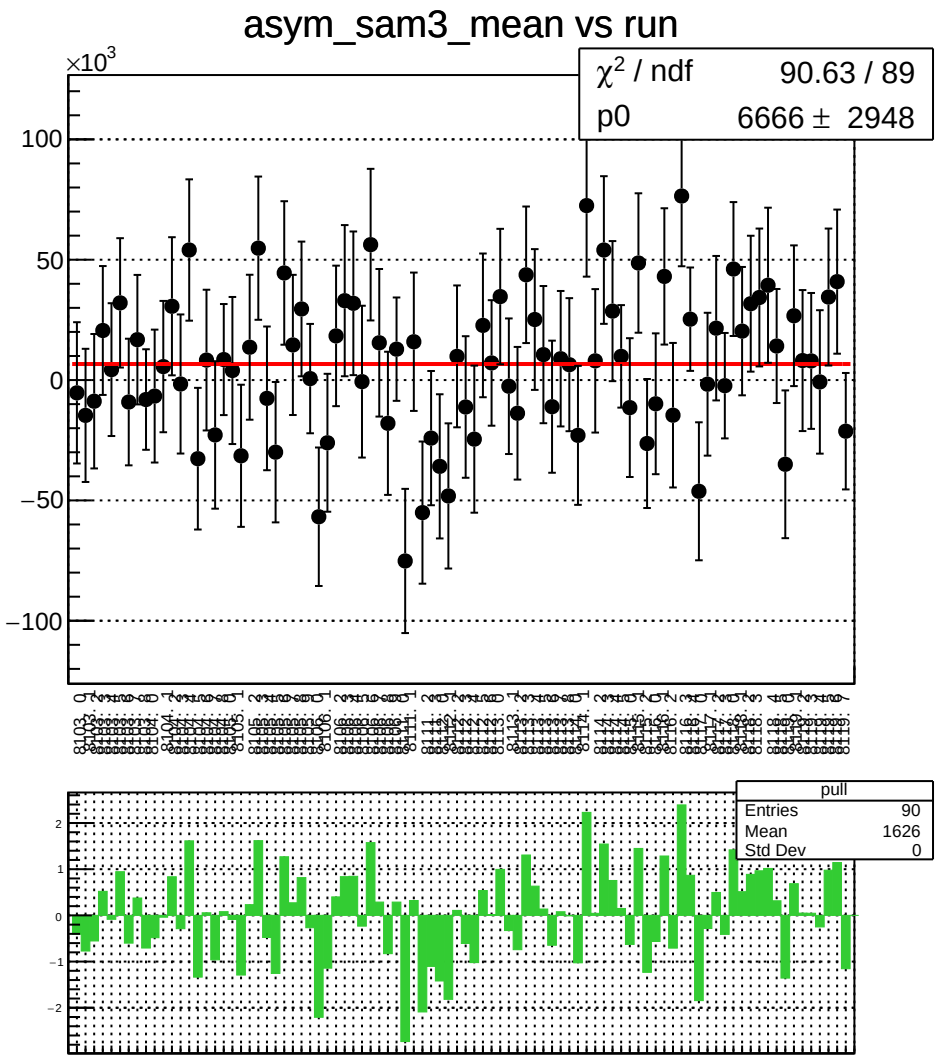

pull1D
Entries 90
Mean 0.03693
Std Dev 0.9924
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

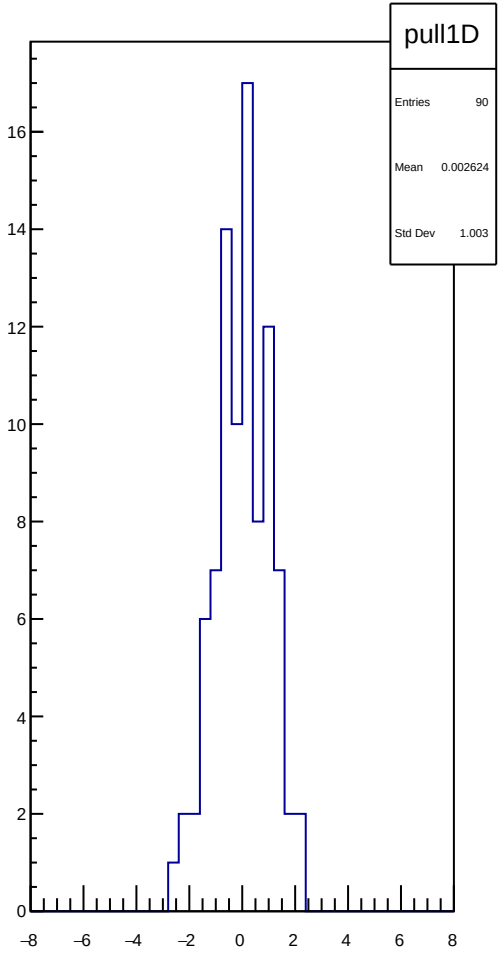

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.626e+04 / 89
p0 281.8 ± 0.2134
400
380
360
340
320
300
280
260
240
220

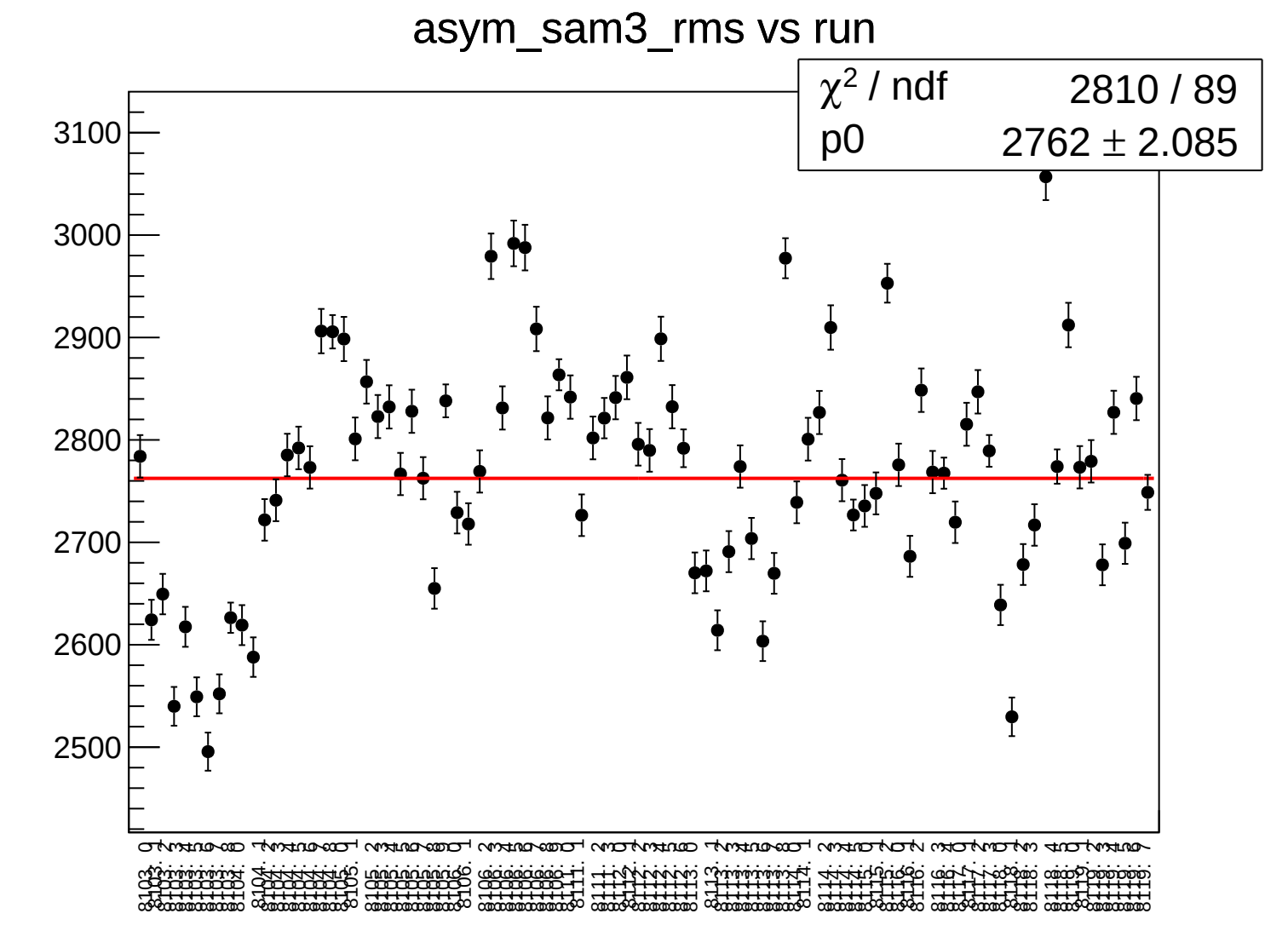

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.81 / 89
p0 −6739 ± 2869
100
50
0
−50
−100
pull
Entries 90
Mean 2800
Std Dev 0
3
2
1
0
−1
−2

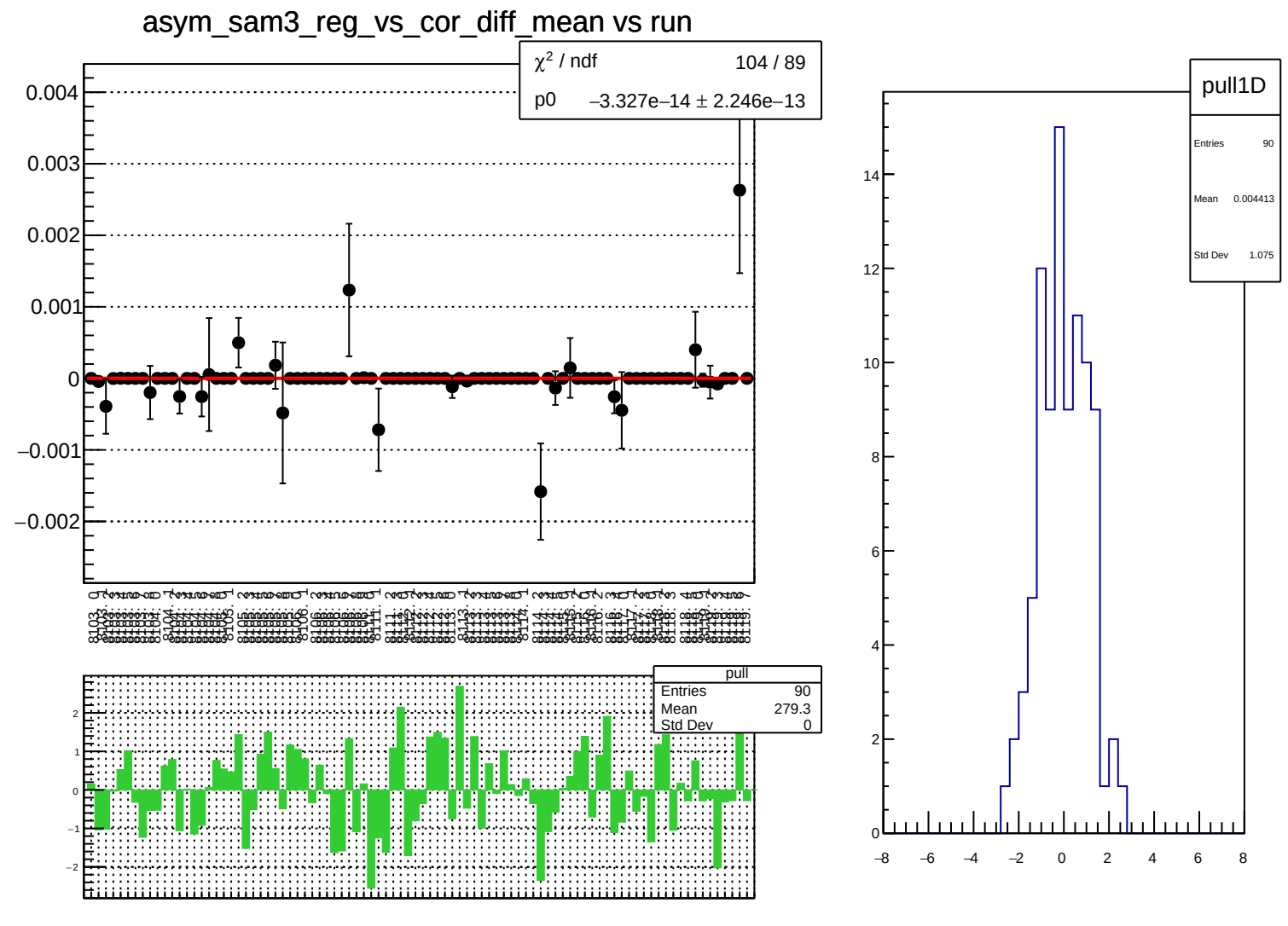

pull1D
Entries 90
Mean −0.001686
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

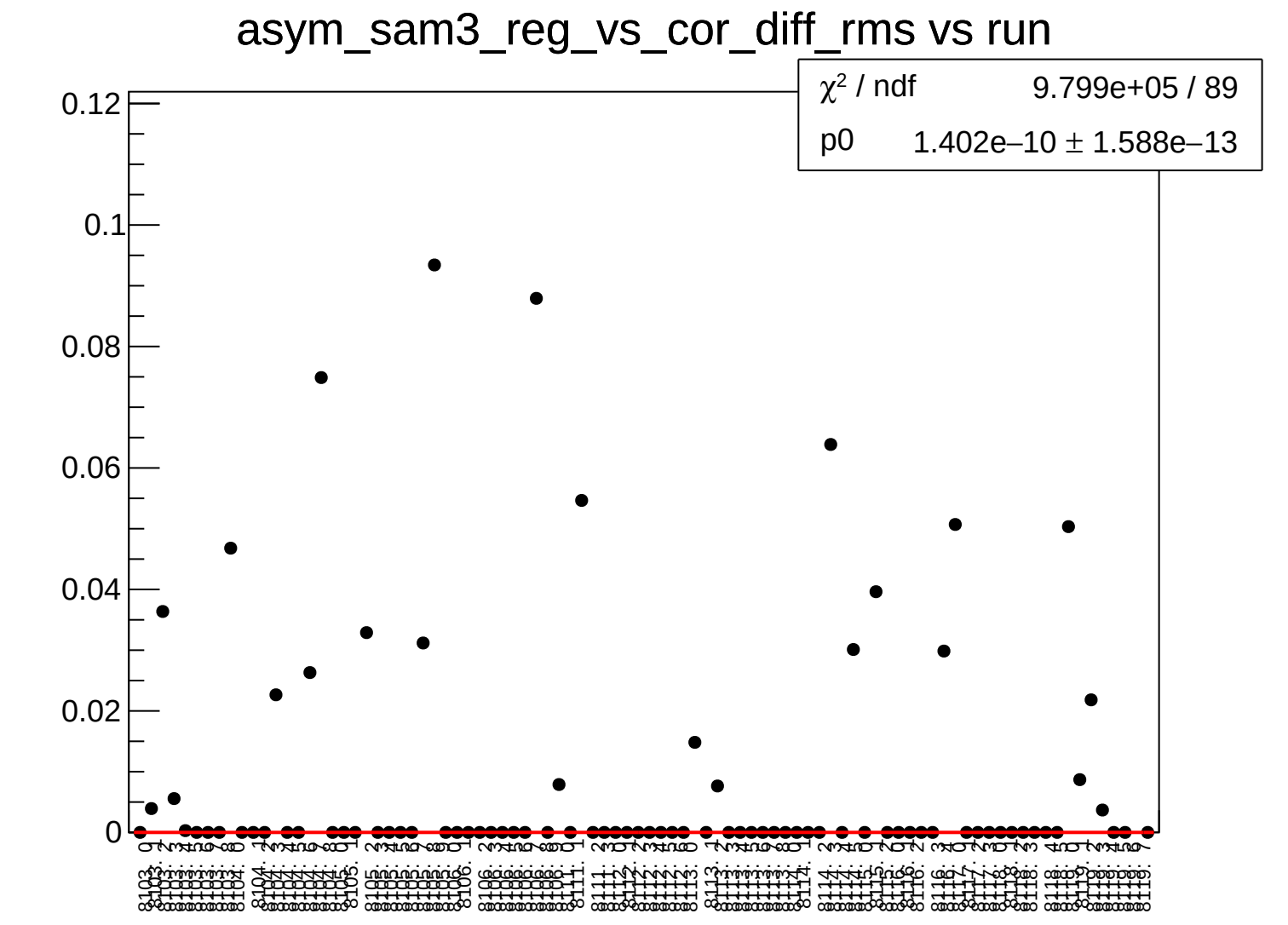

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2398 / 89
p0 2689 ± 2.029
3100
3000
2900
2800
2700
2600
2500
2400

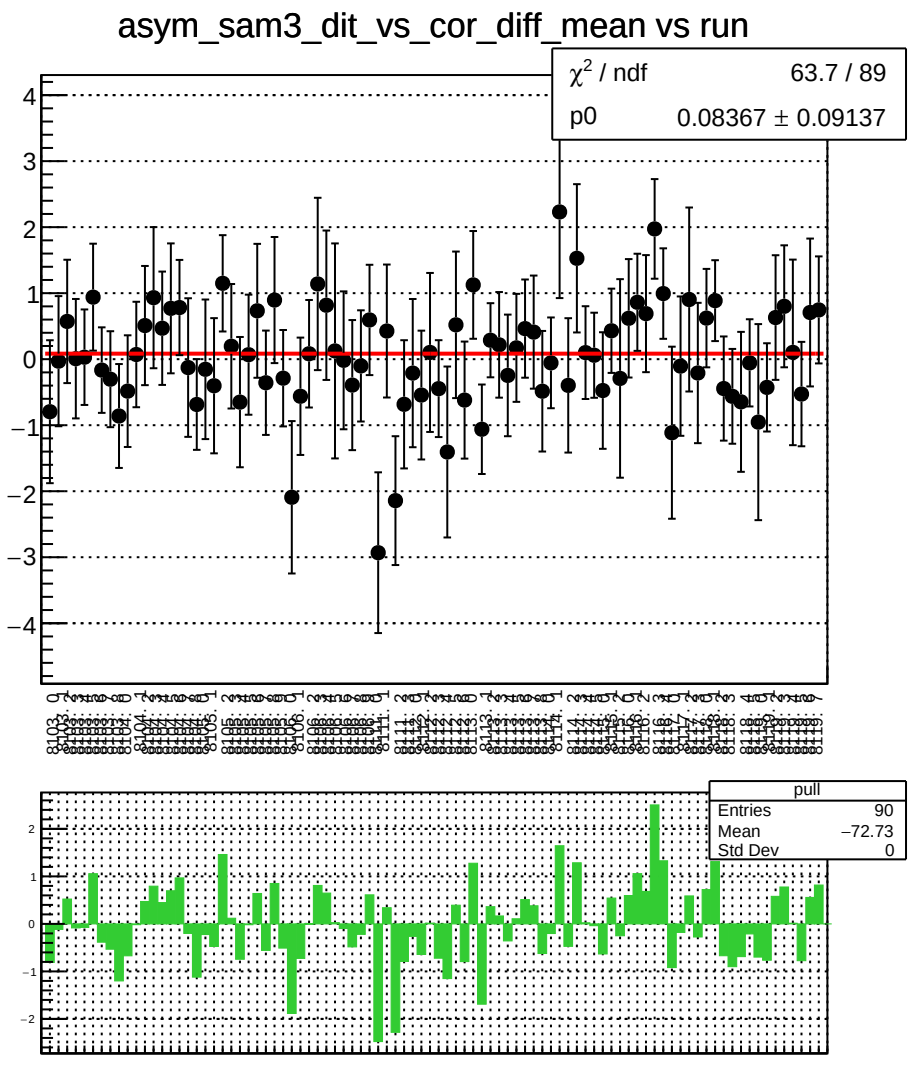

asym_sam3_mean vs run
×10^3
χ² / ndf 90.63 / 89
p0 6666 ± 2948
100
50
0
−50
−100
pull
Entries 90
Mean 1626
Std Dev 0
2
1
0
−1
−2

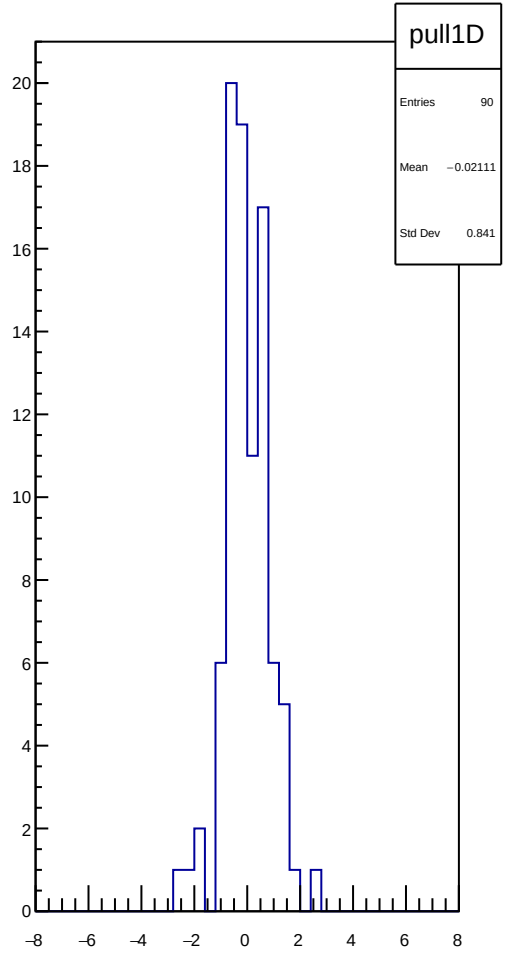

pull1D
Entries 90
Mean 0.002624
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

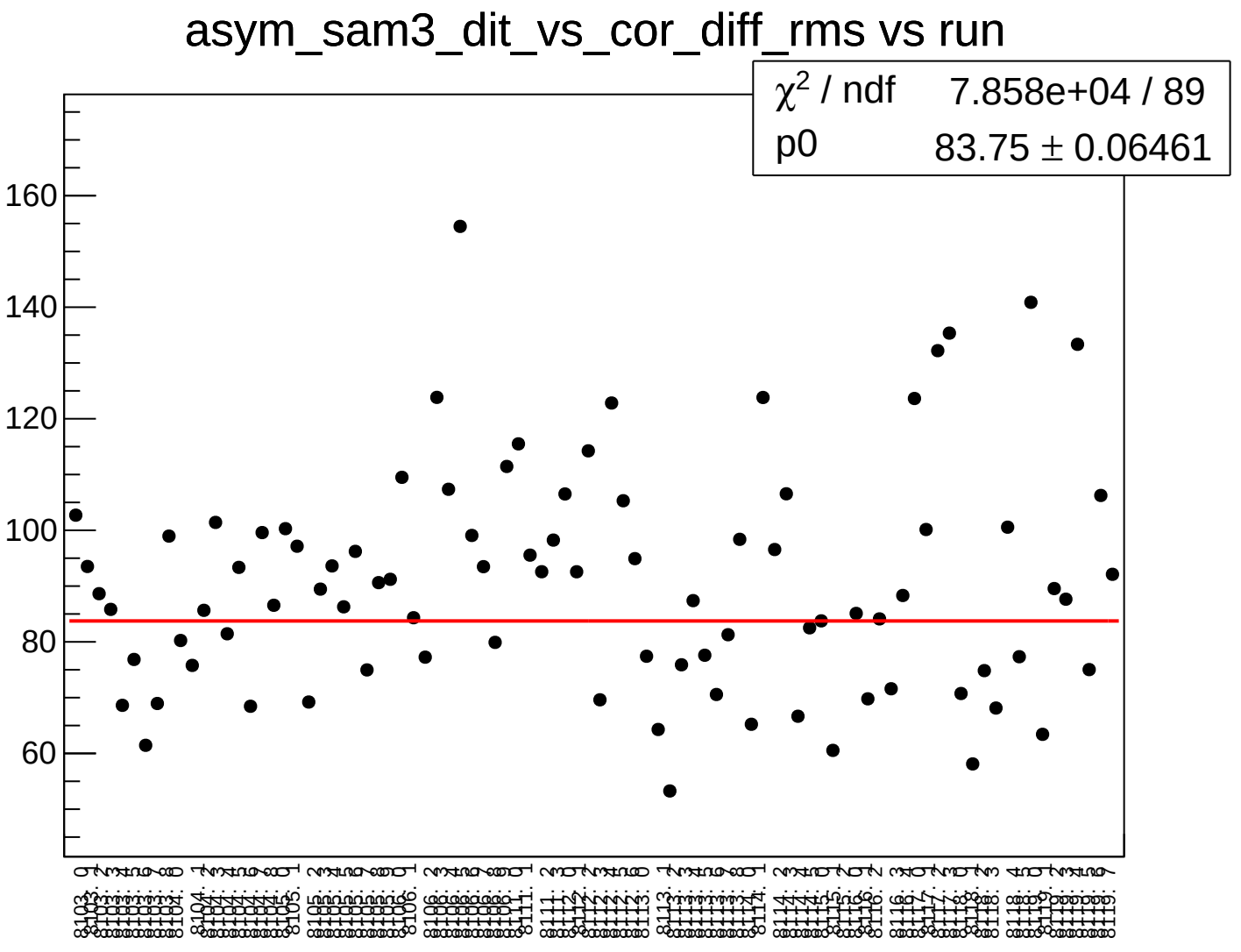

asym_sam3_rms vs run
χ² / ndf 2810 / 89
p0 2762 ± 2.085
3100
3000
2900
2800
2700
2600
2500

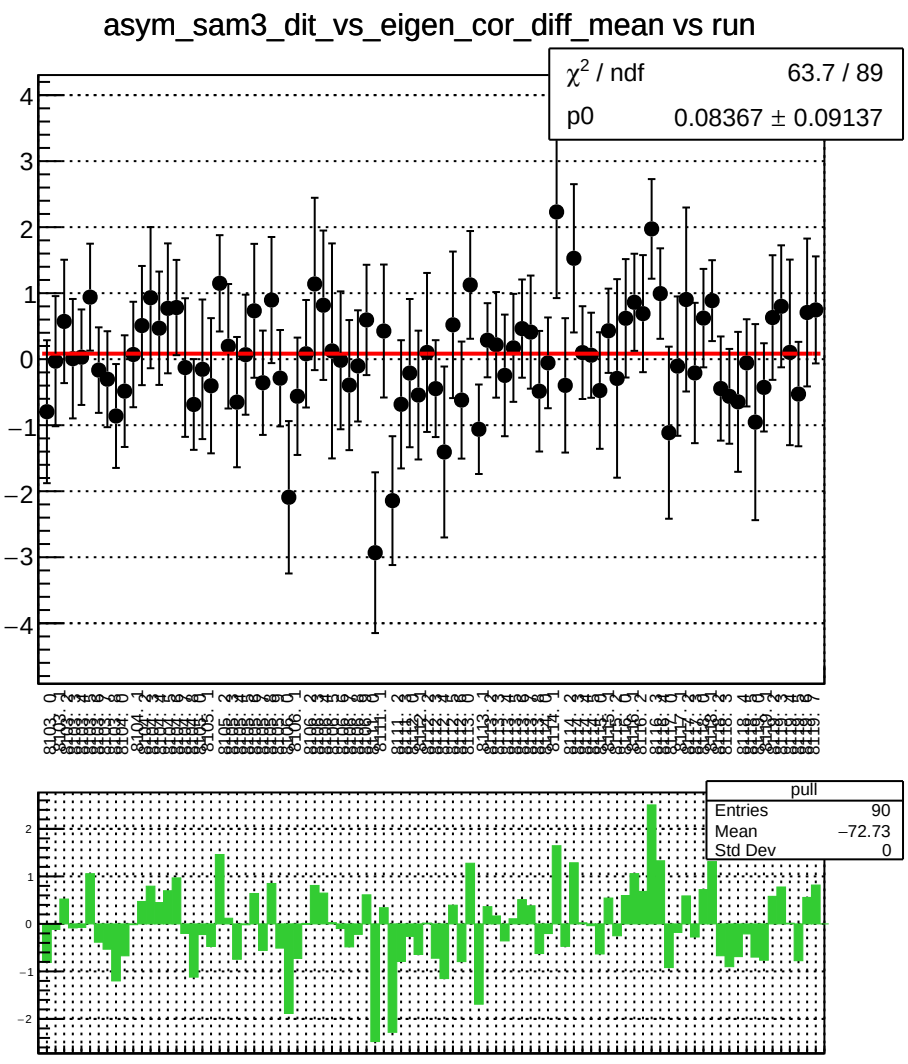

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 89
p0 −3.327e−14 ± 2.246e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 90
Mean 279.3
Std Dev 0
pull1D
Entries 90
Mean 0.004413
Std Dev 1.075

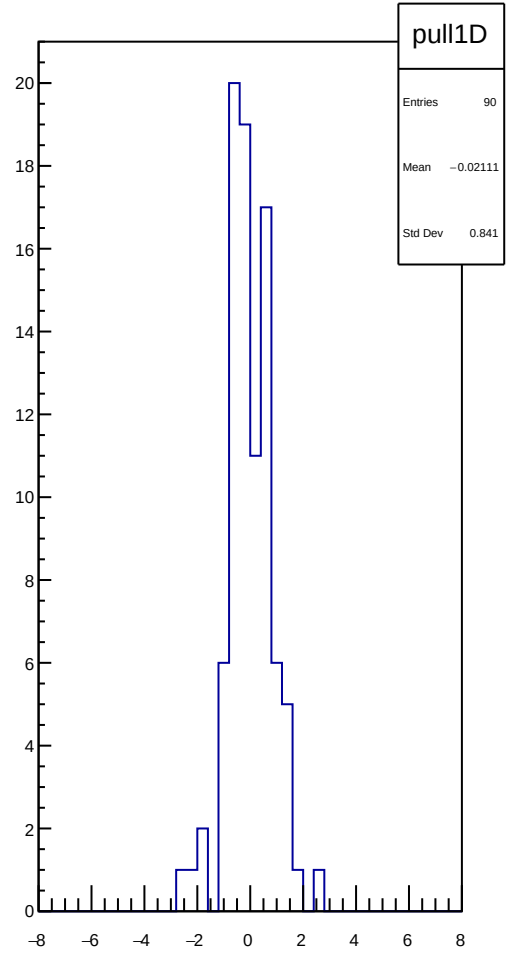

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.799e+05 / 89
p0 1.402e−10 ± 1.588e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

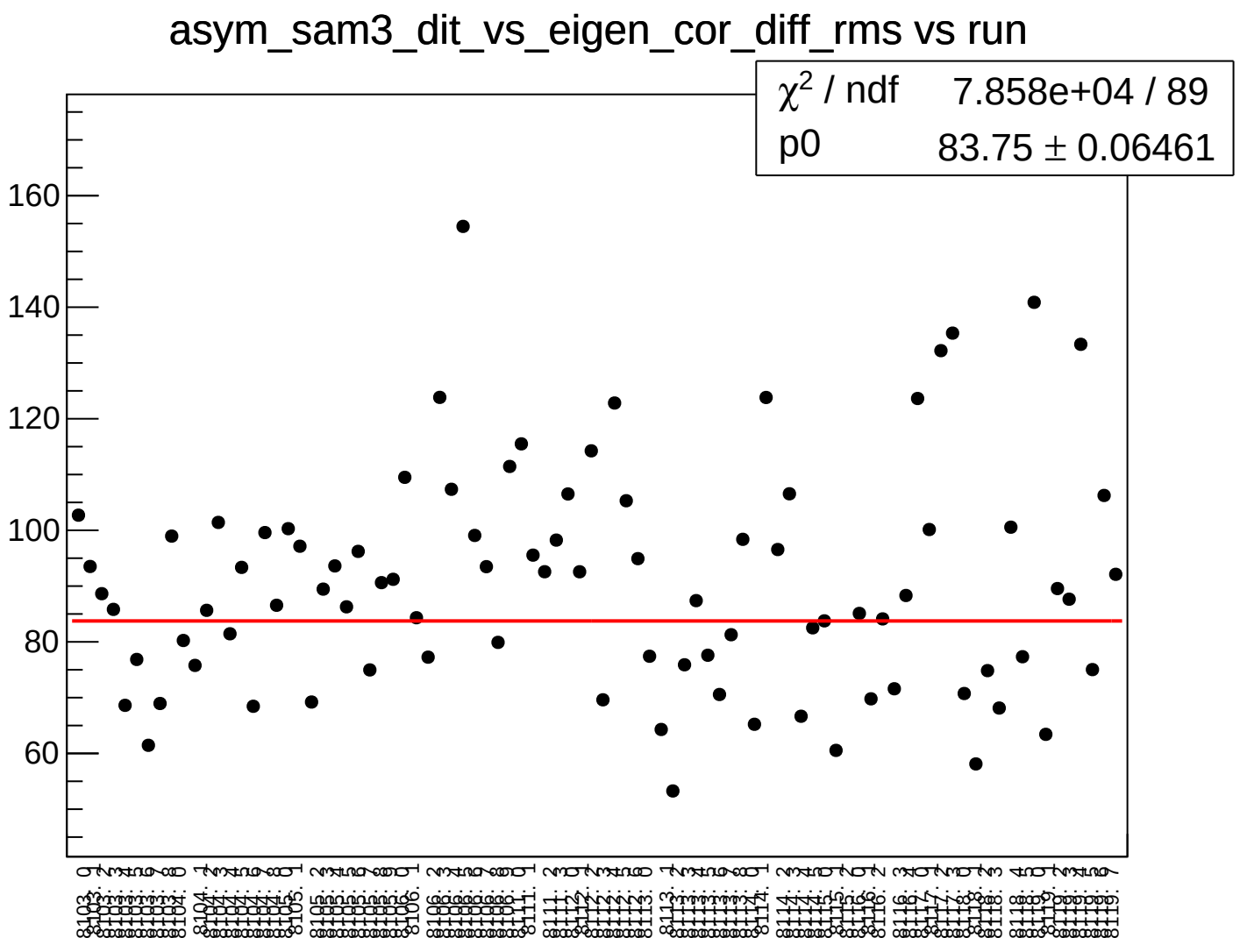

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 63.7 / 89
p0 0.08367 ± 0.09137
pull
Entries 90
Mean −72.73
Std Dev 0

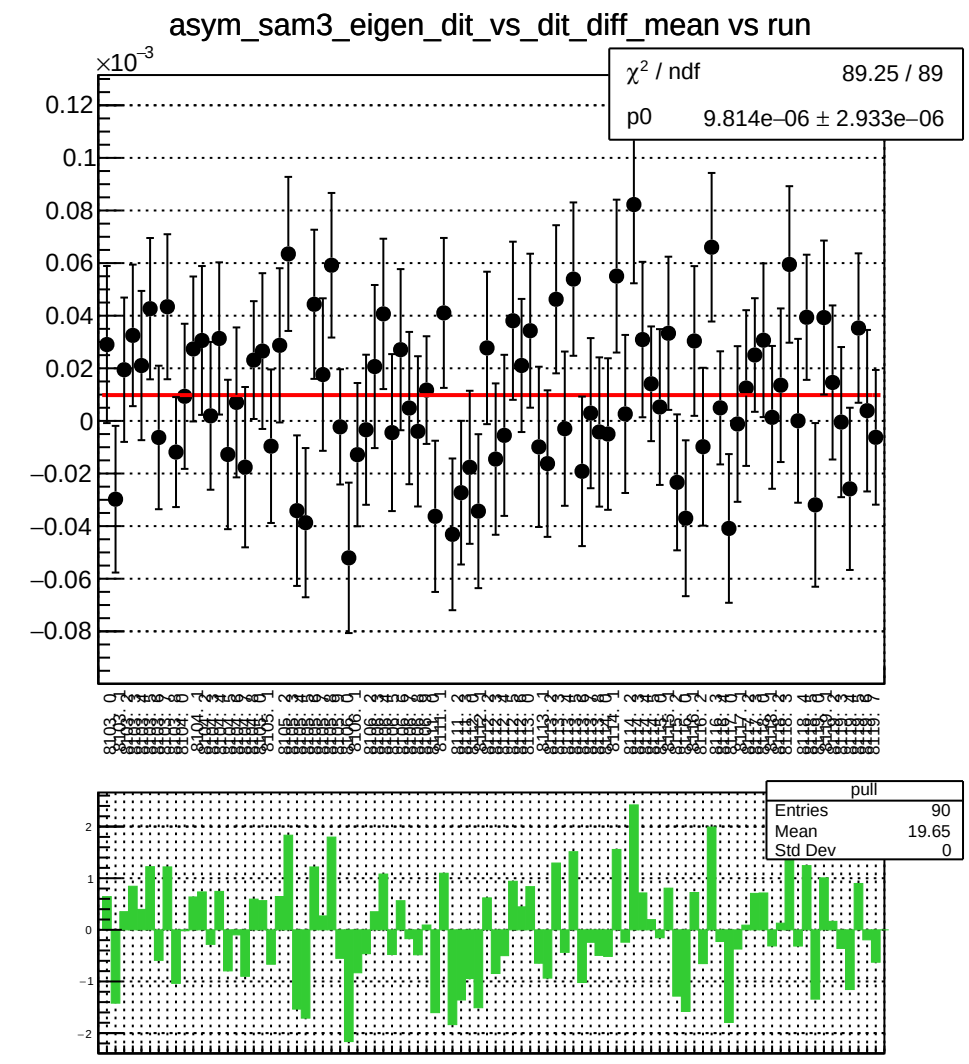

pull1D
Entries 90
Mean −0.02111
Std Dev 0.841

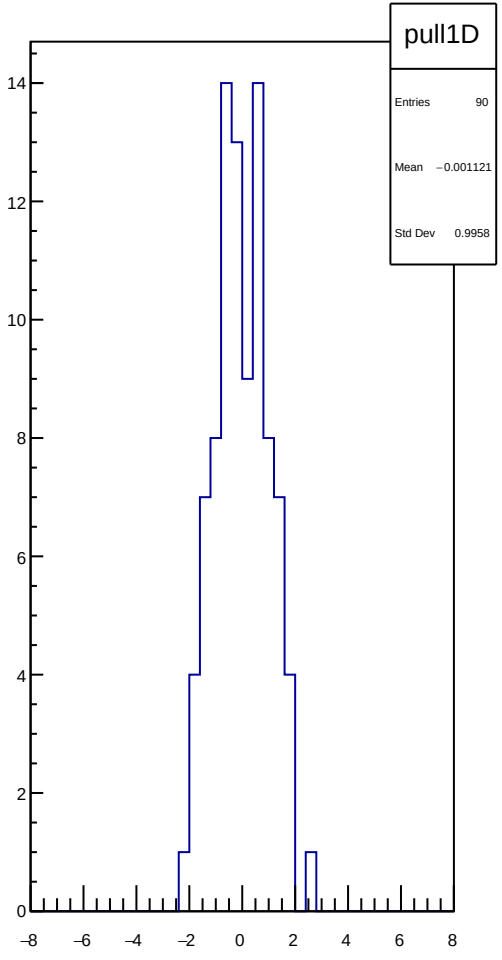

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.858e+04 / 89
p0 83.75 ± 0.06461
160
140
120
100
80
60

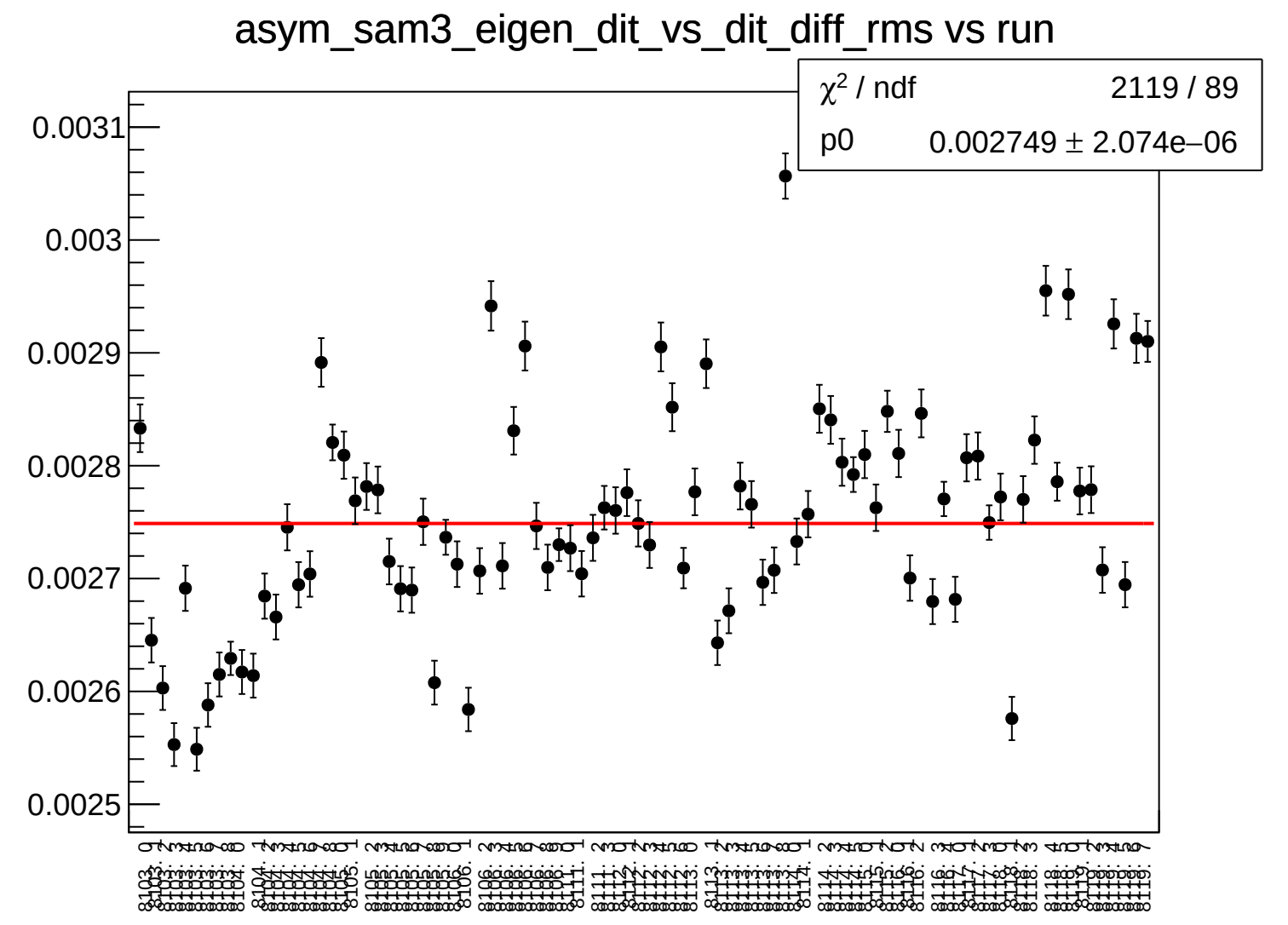

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.7 / 89
p0 0.08367 ± 0.09137
pull
Entries 90
Mean −72.73
Std Dev 0

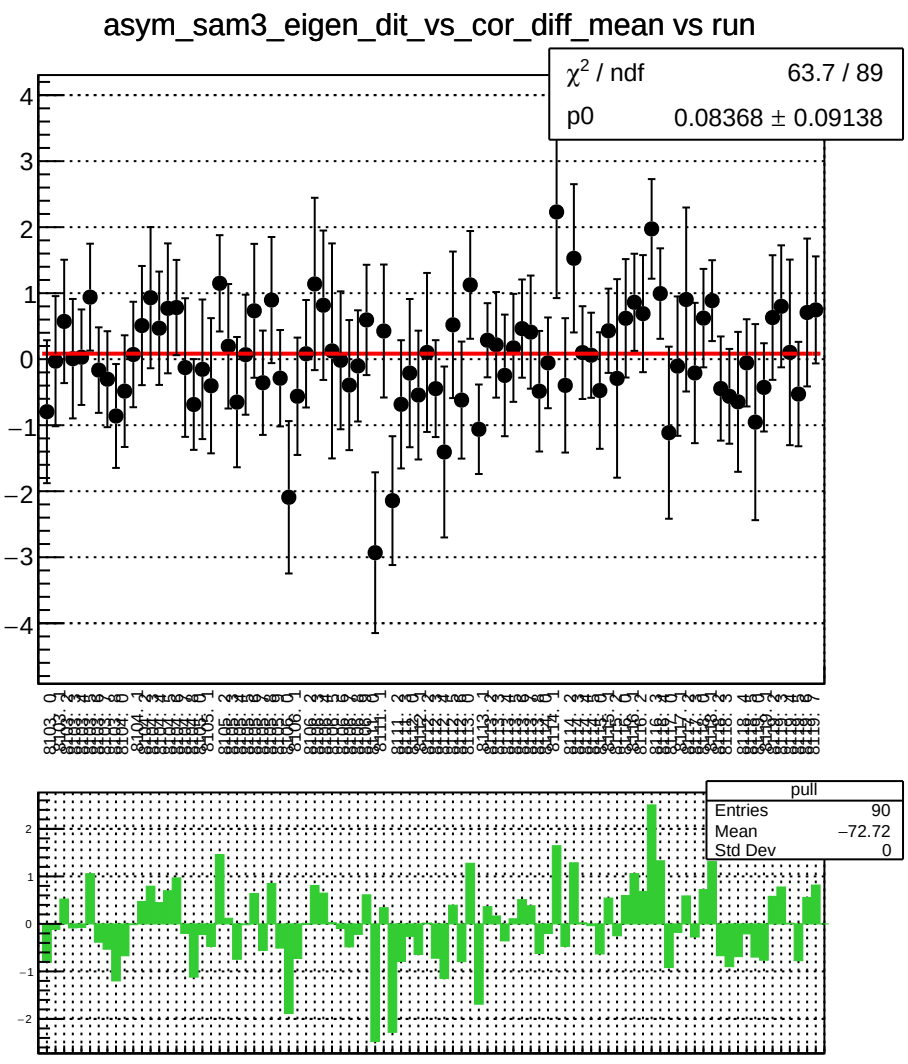

pull1D
Entries 90
Mean −0.02111
Std Dev 0.841

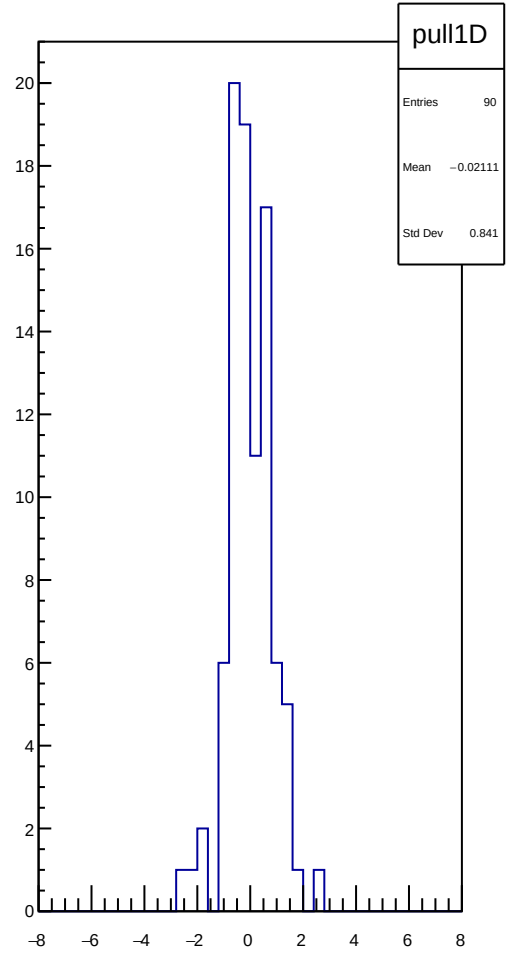

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.858e+04 / 89
p0 83.75 ± 0.06461
160
140
120
100
80
60

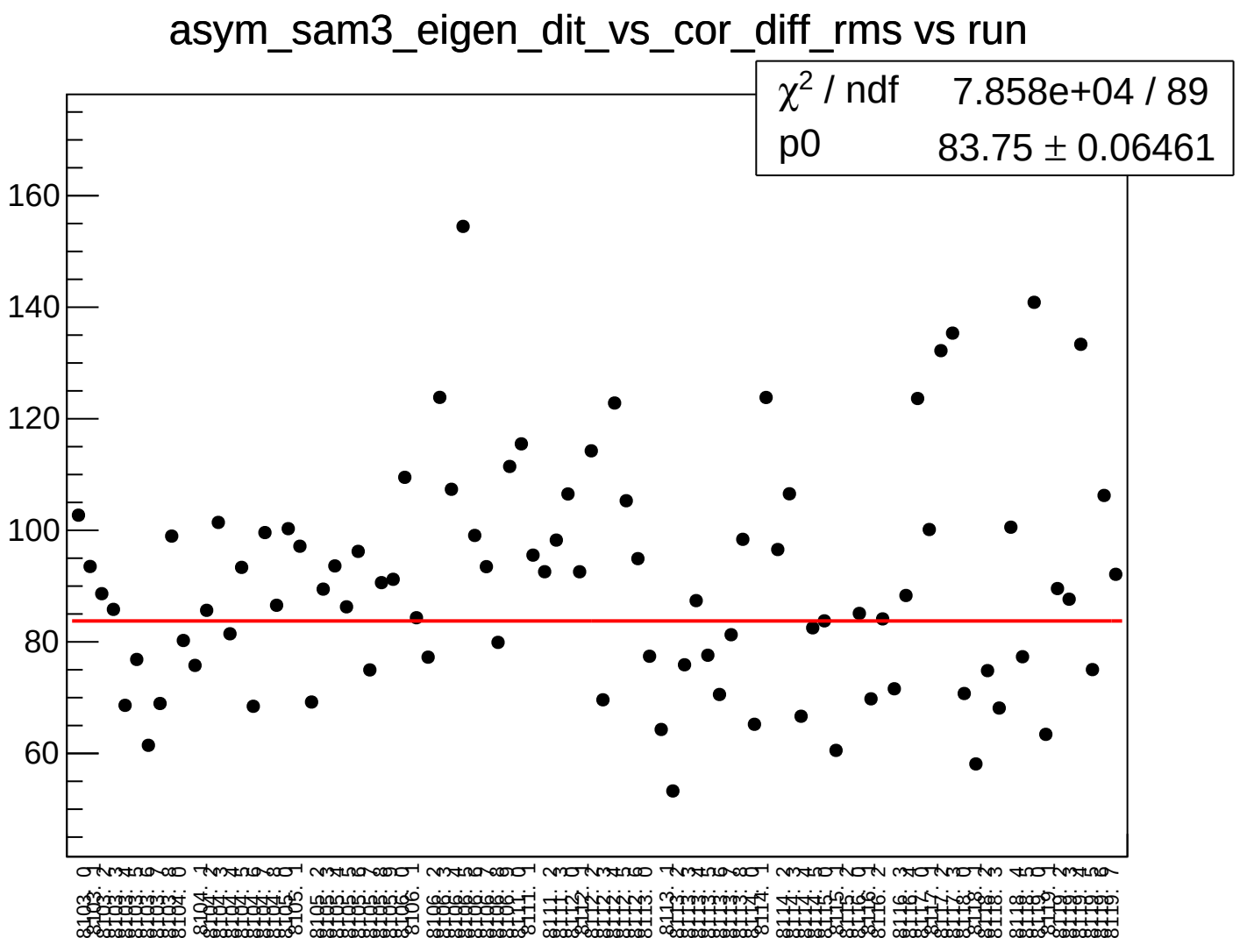

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.25 / 89
p0 9.814e−06 ± 2.933e−06
pull
Entries 90
Mean 19.65
Std Dev 0

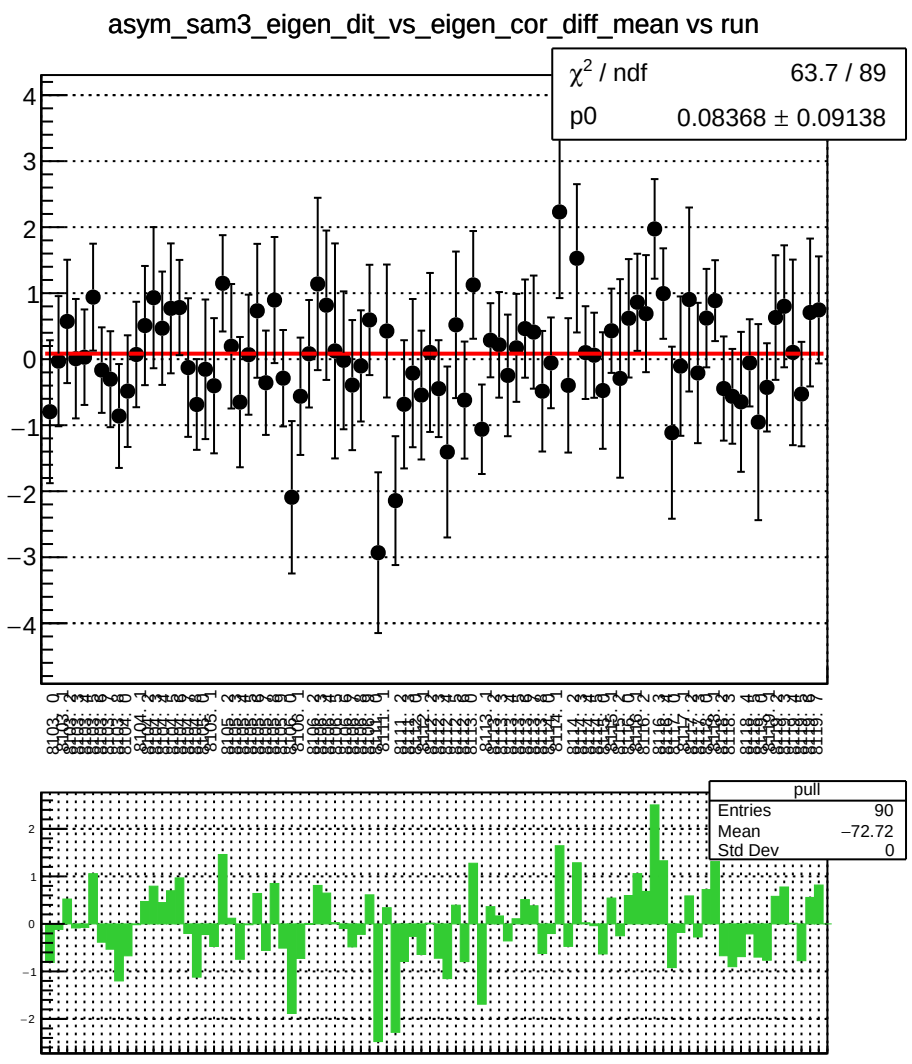

pull1D
Entries 90
Mean −0.001121
Std Dev 0.9958

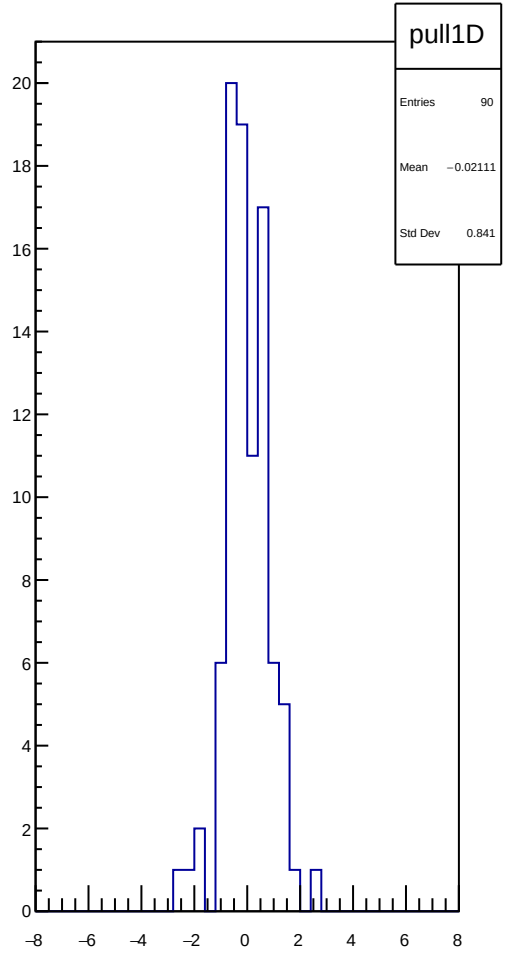

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2119 / 89
p0 0.002749 ± 2.074e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

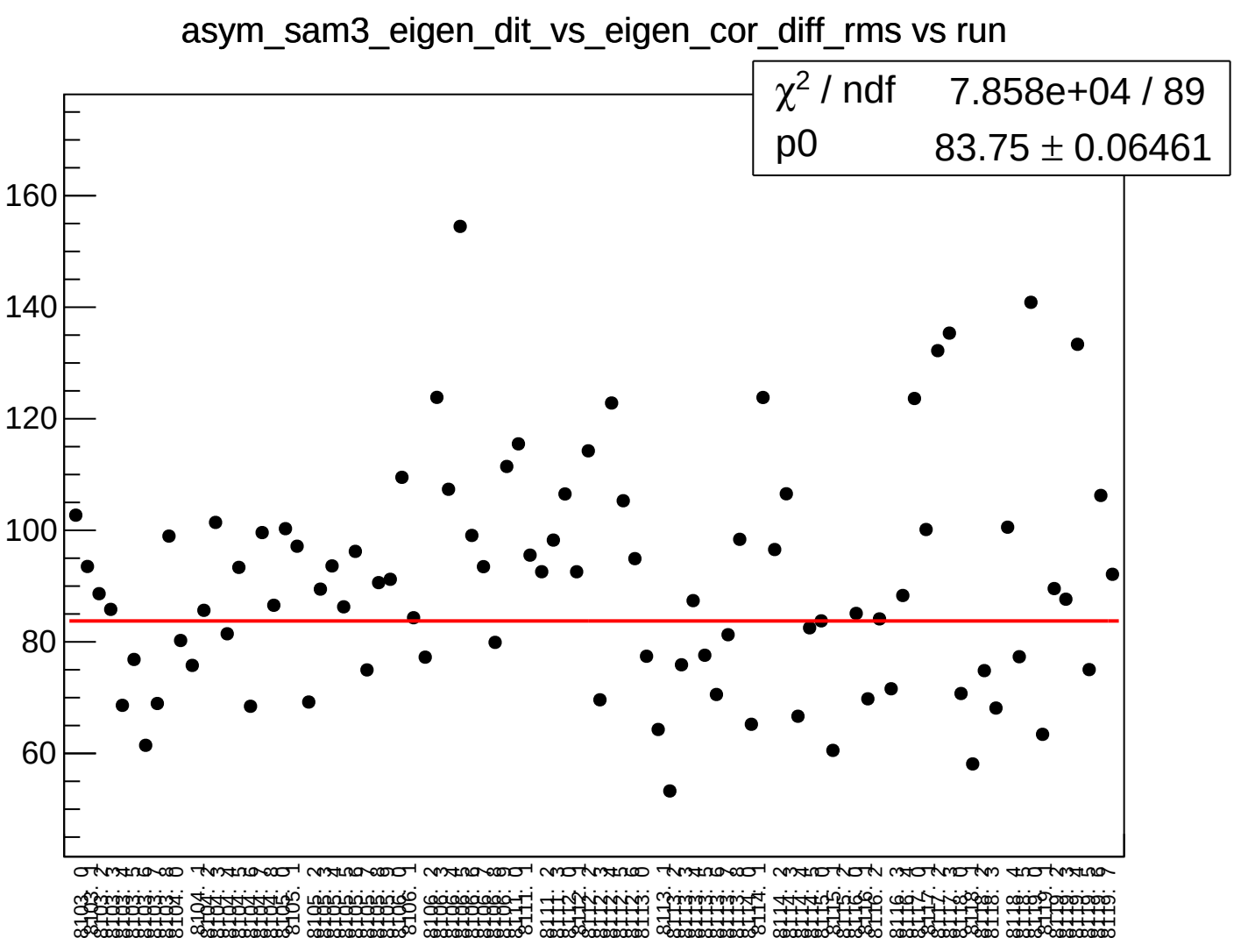

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.7 / 89
p0 0.08368 ± 0.09138
pull
Entries 90
Mean −72.72
Std Dev 0

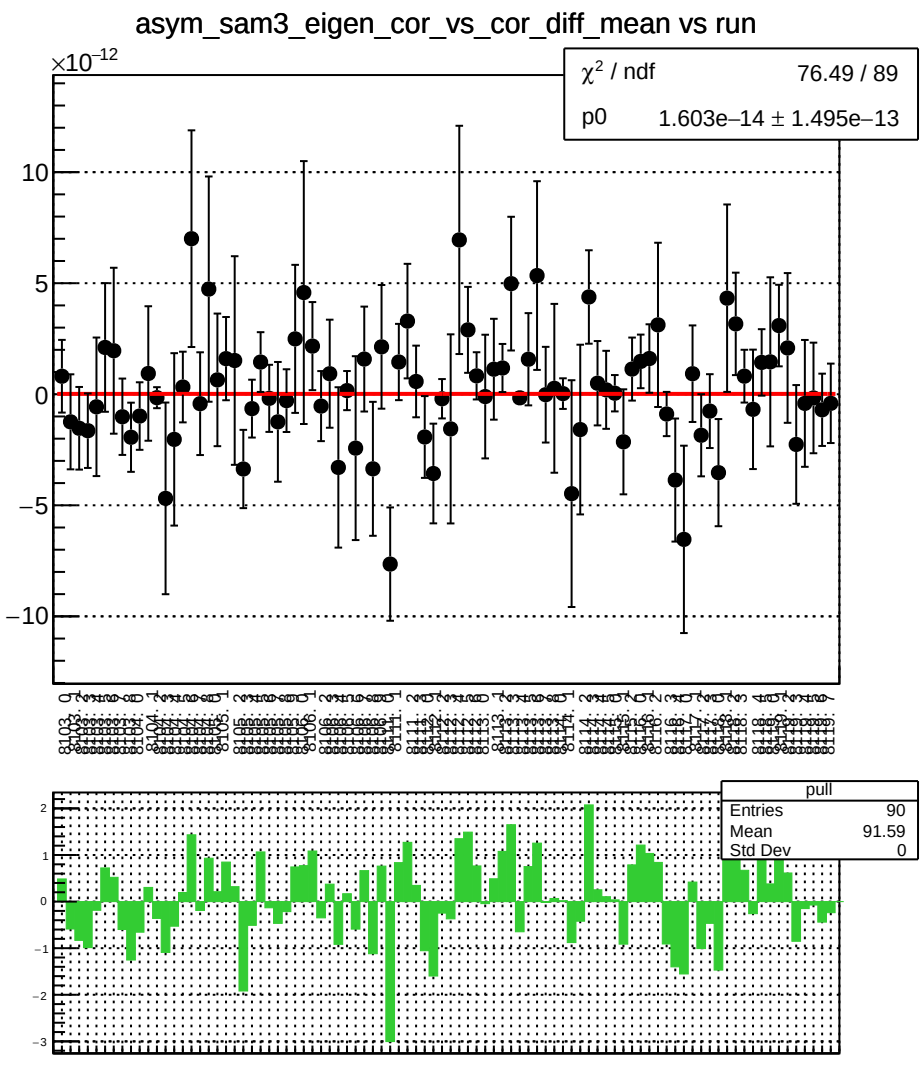

pull1D
Entries 90
Mean −0.02111
Std Dev 0.841

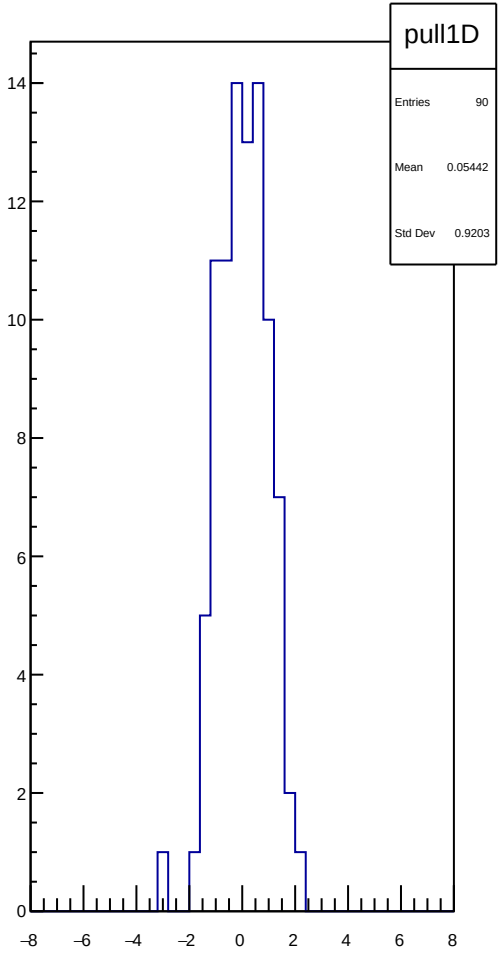

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.858e+04 / 89
p0 83.75 ± 0.06461
160
140
120
100
80
60

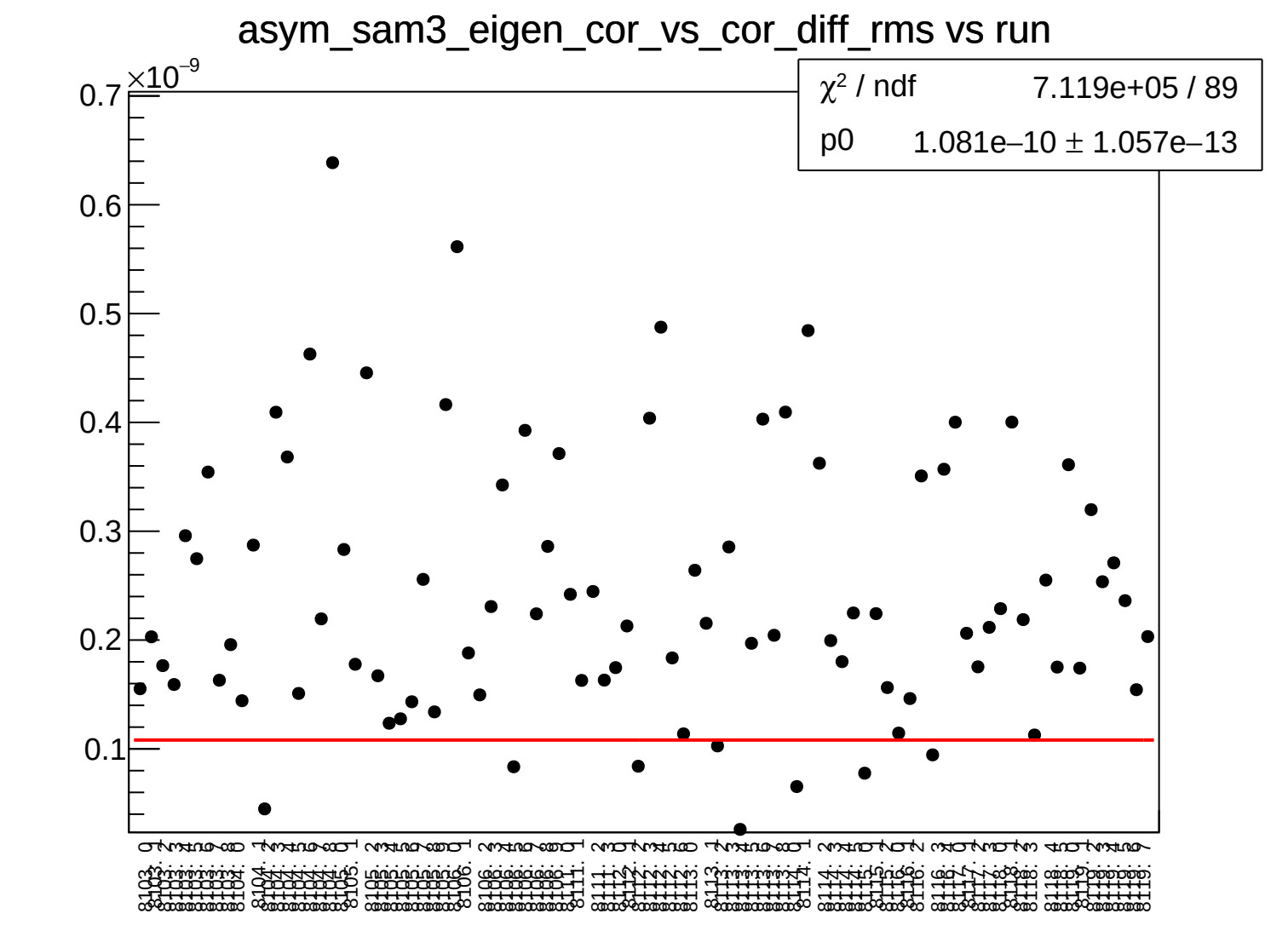

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.7 / 89
p0 0.08368 ± 0.09138
pull
Entries 90
Mean −72.72
Std Dev 0

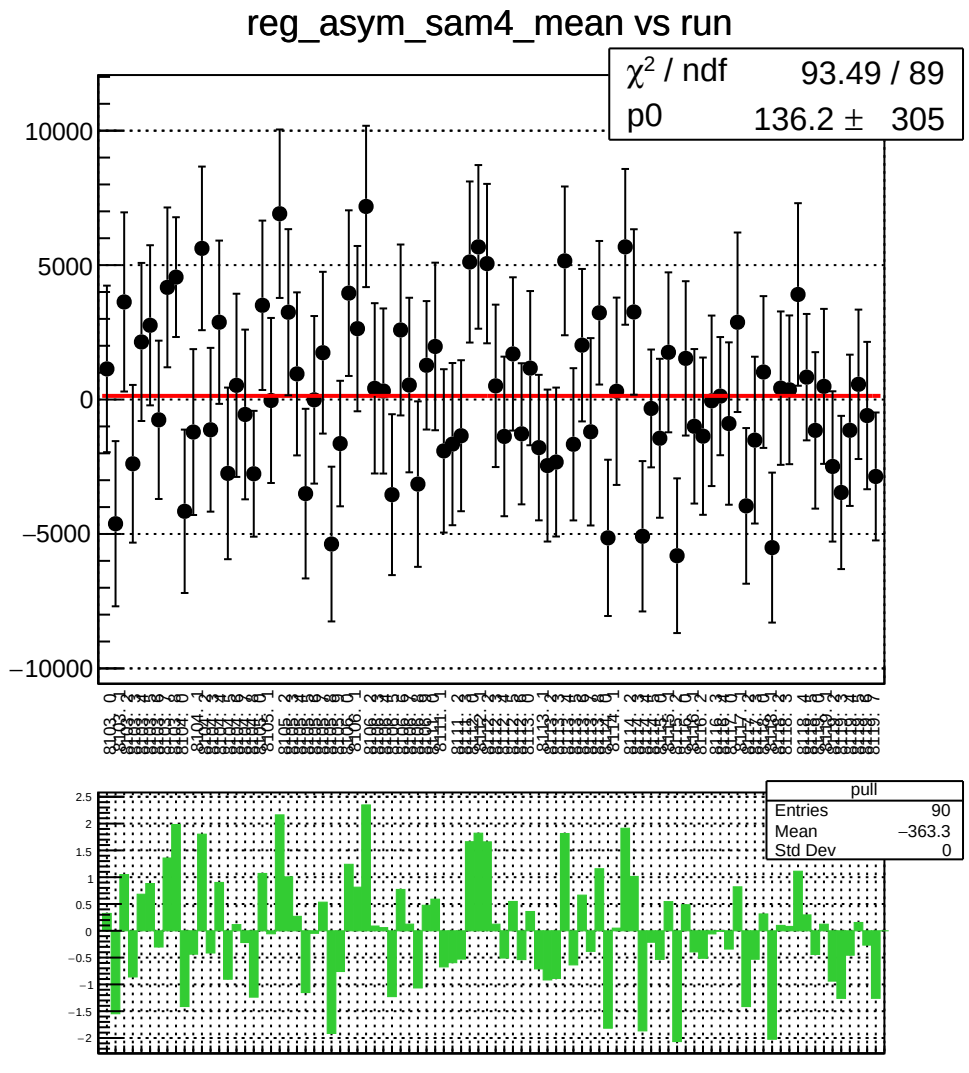

pull1D
Entries 90
Mean −0.02111
Std Dev 0.841

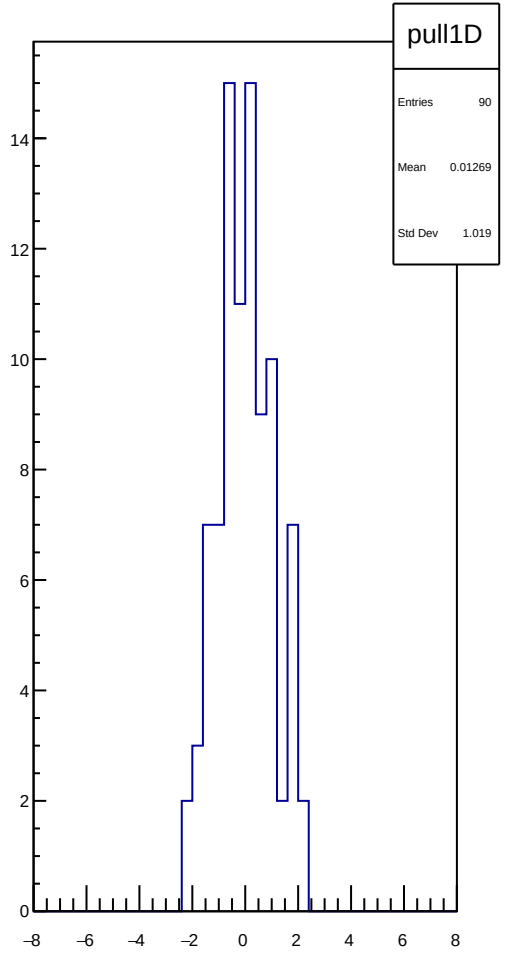

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.858e+04 / 89
p0 83.75 ± 0.06461
160
140
120
100
80
60

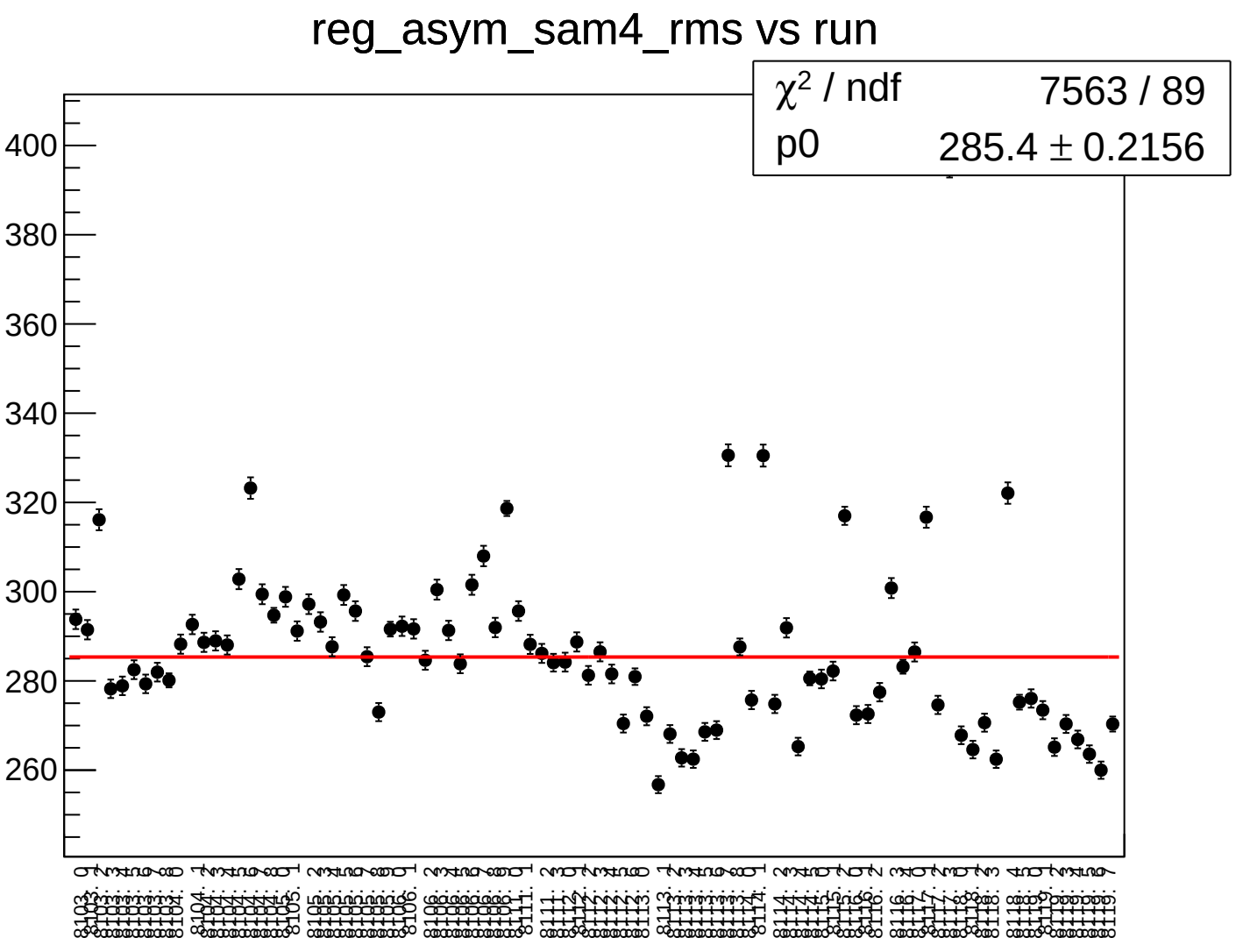

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.49 / 89
p0 1.603e−14 ± 1.495e−13
10
5
0
−5
−10
pull
Entries 90
Mean 91.59
Std Dev 0
2
1
0
−1
−2
−3

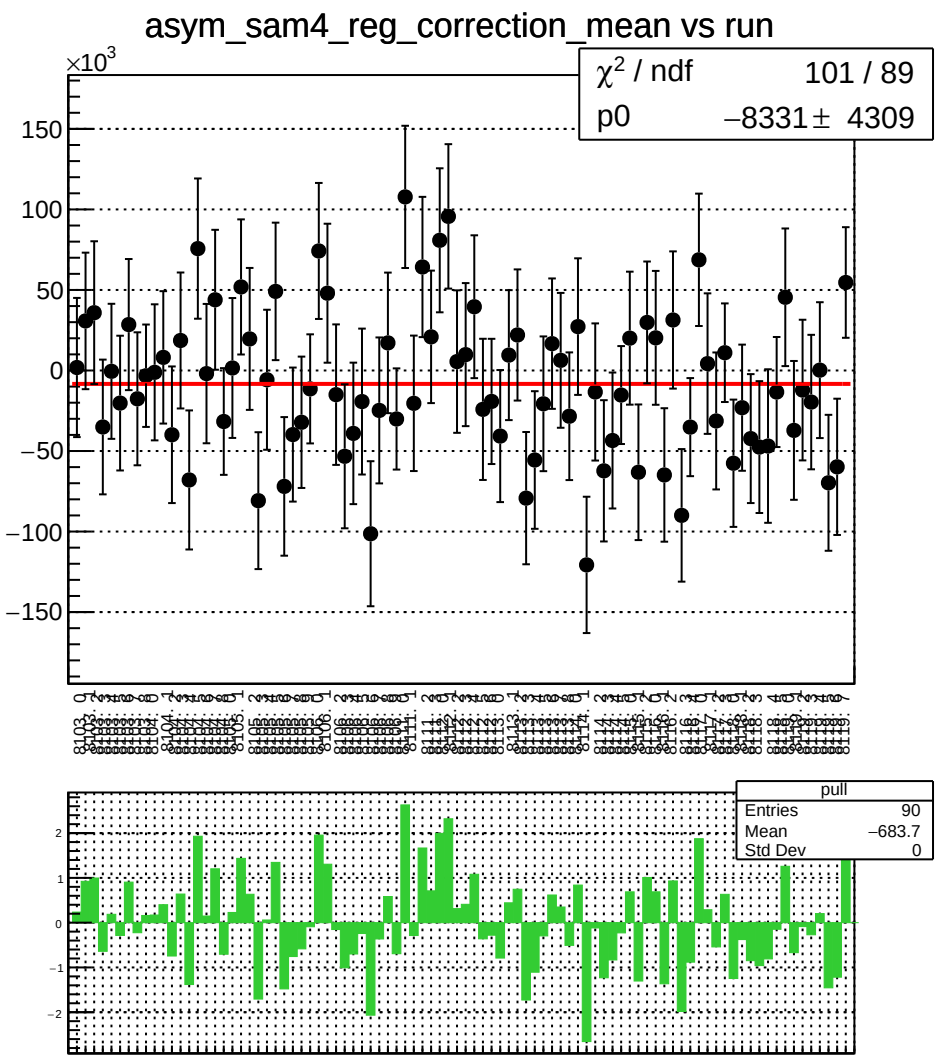

pull1D
Entries 90
Mean 0.05442
Std Dev 0.9203
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

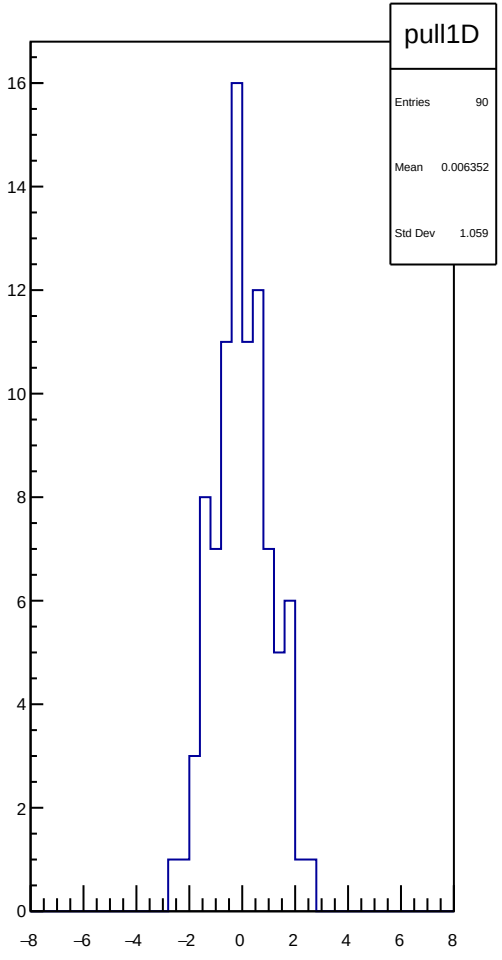

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 7.119e+05 / 89
p0 1.081e−10 ± 1.057e−13

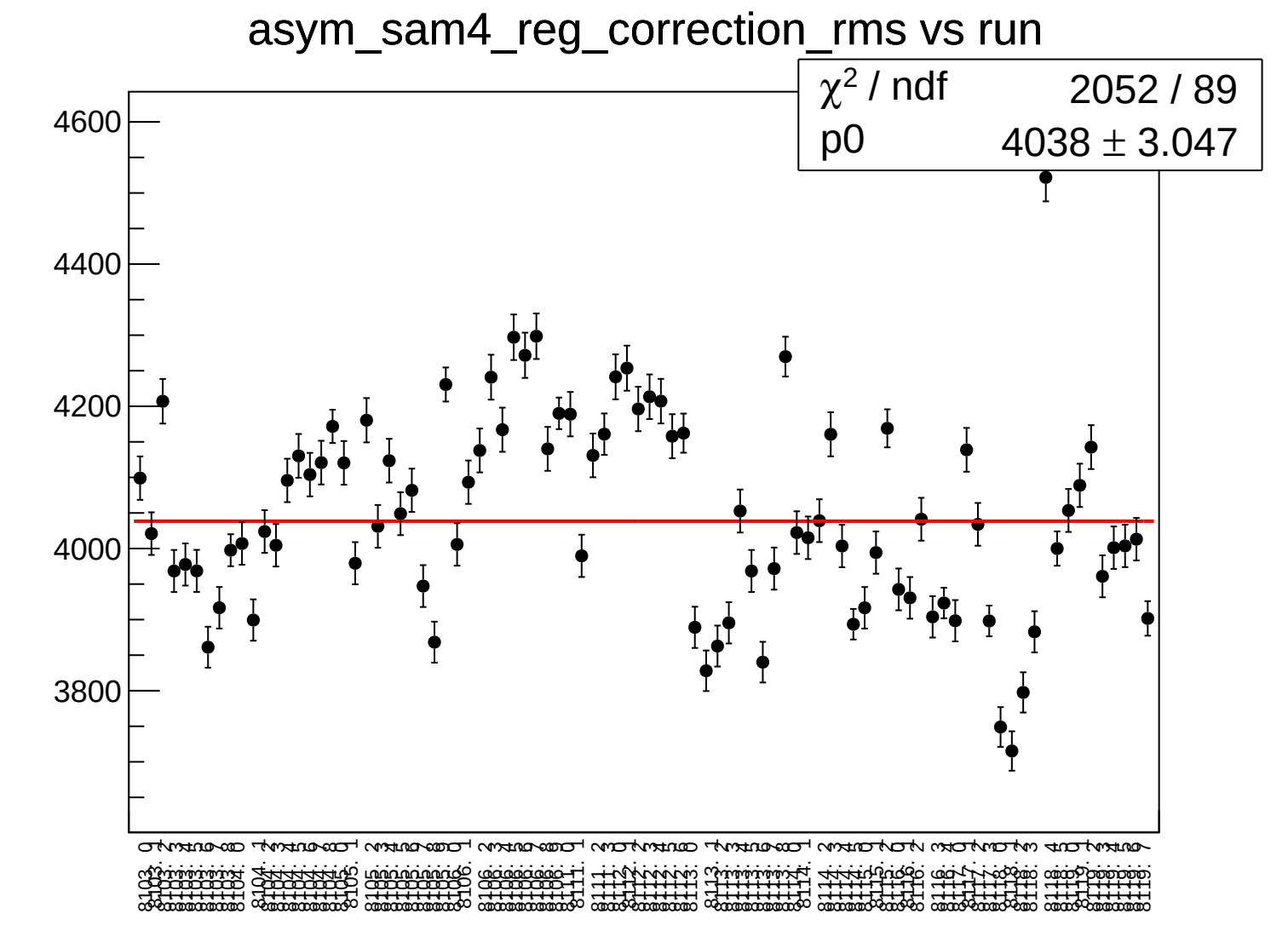

reg_asym_sam4_mean vs run
χ² / ndf 93.49 / 89
p0 136.2 ± 305
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −363.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

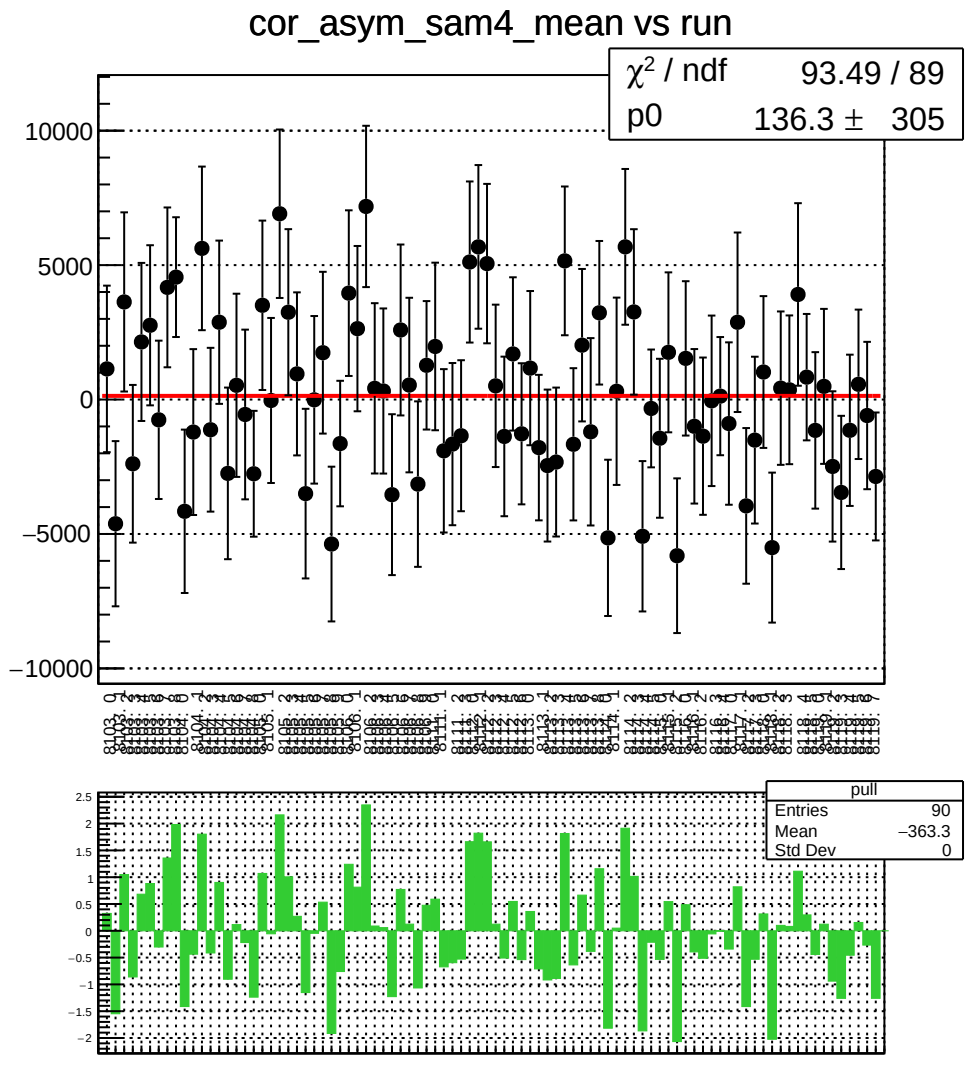

pull1D
Entries 90
Mean 0.01269
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

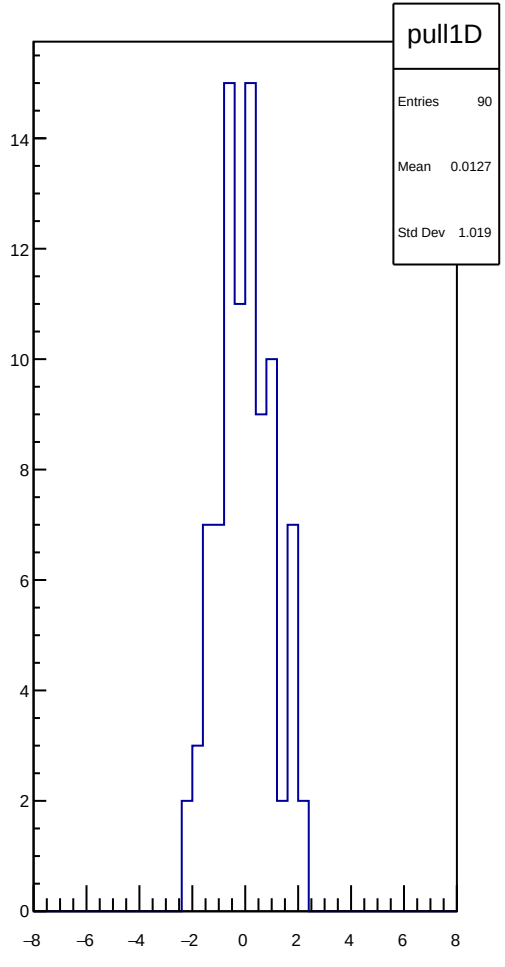

reg_asym_sam4_rms vs run
χ² / ndf 7563 / 89
p0 285.4 ± 0.2156
400
380
360
340
320
300
280
260

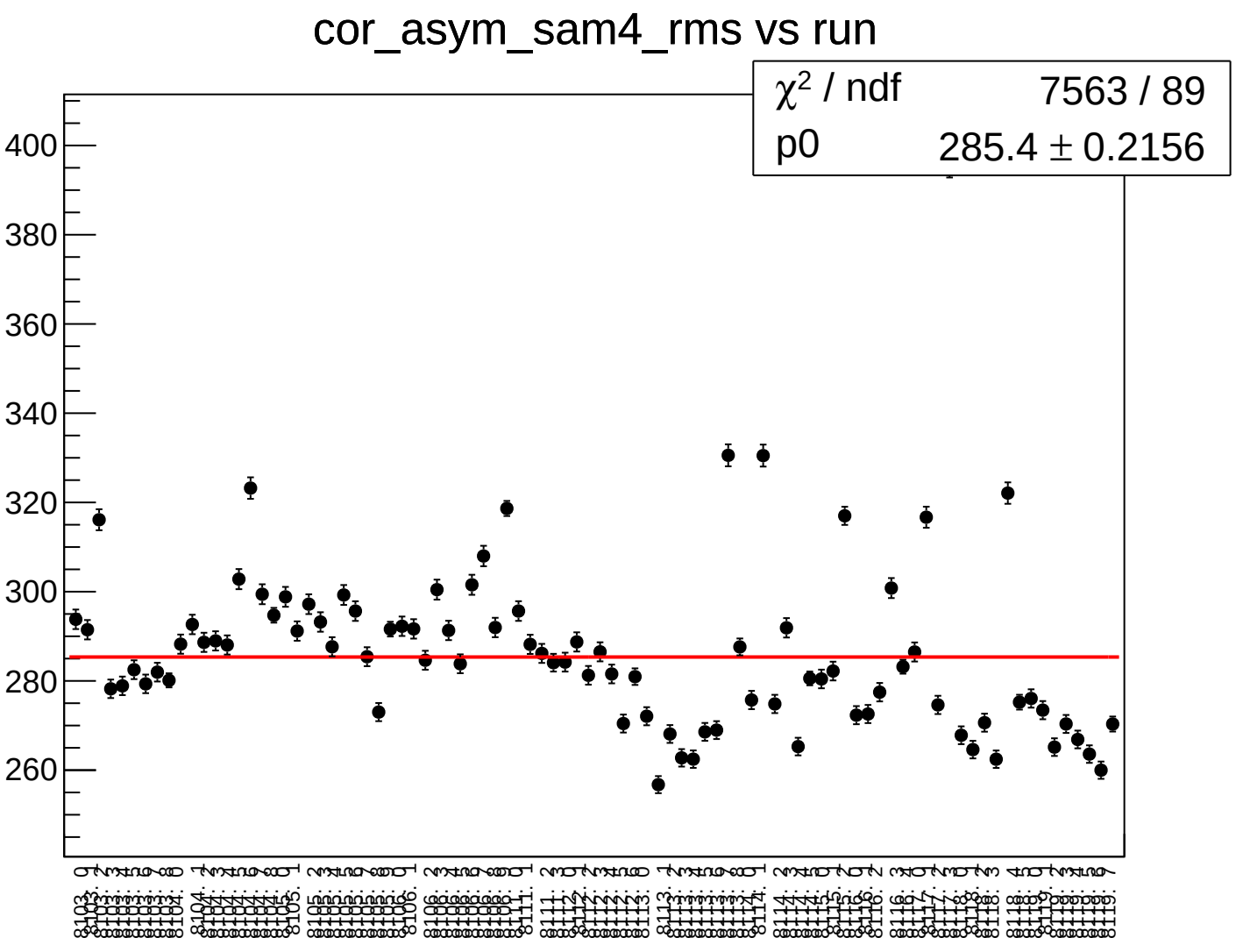

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 101 / 89
p0 −8331 ± 4309
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −683.7
Std Dev 0
2
1
0
−1
−2

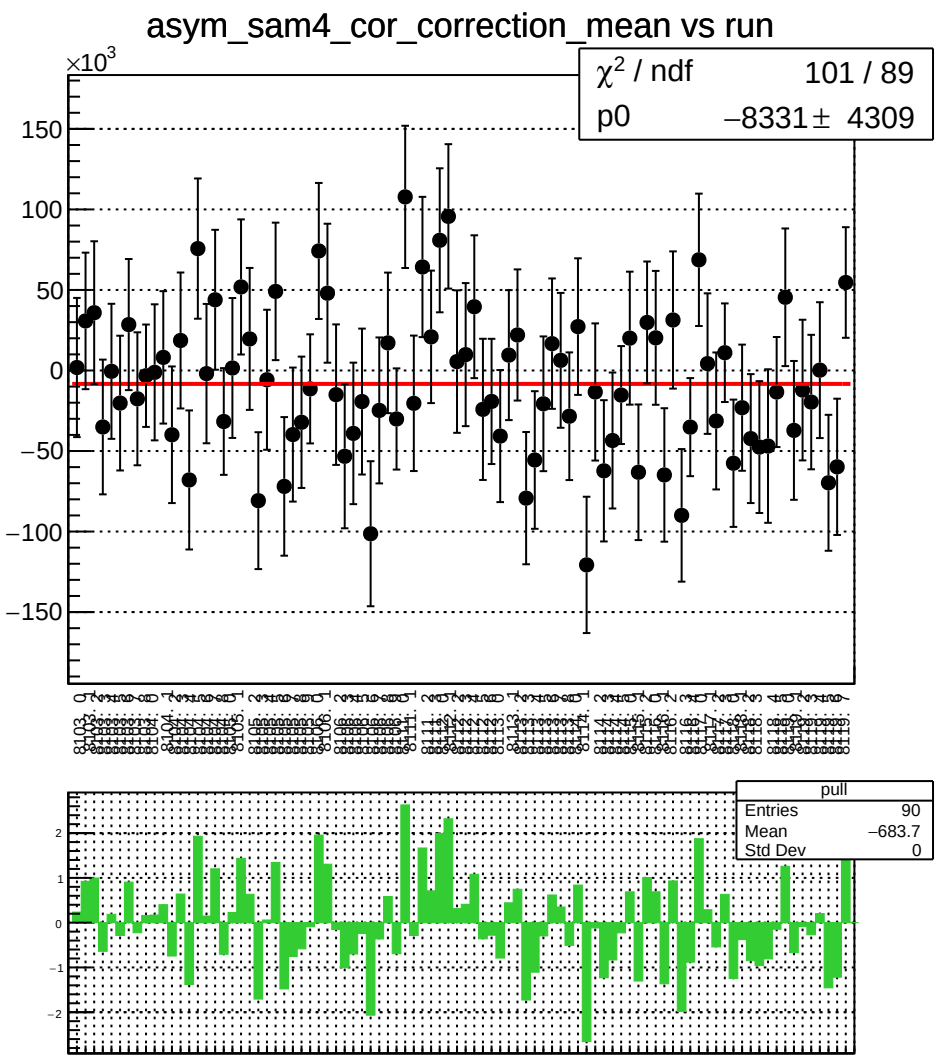

pull1D
Entries 90
Mean 0.006352
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

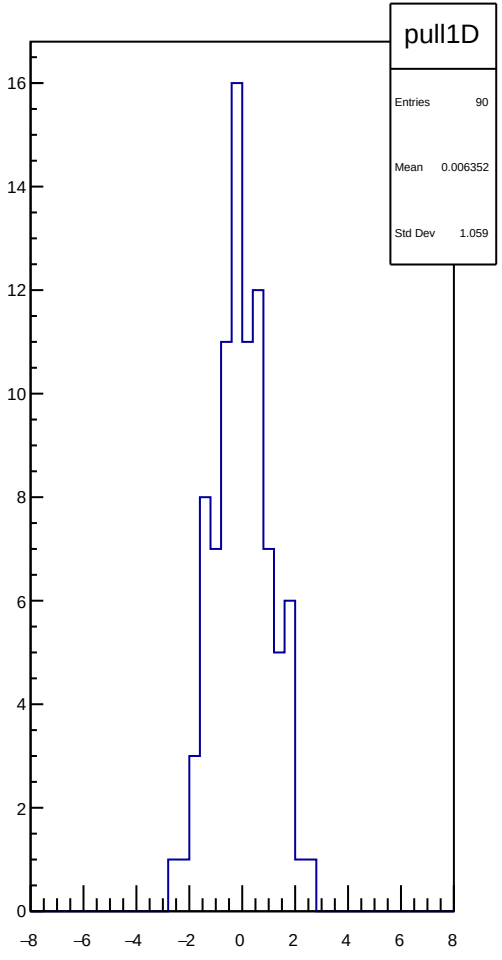

asym_sam4_reg_correction_rms vs run
χ² / ndf 2052 / 89
p0 4038 ± 3.047
4600
4400
4200
4000
3800

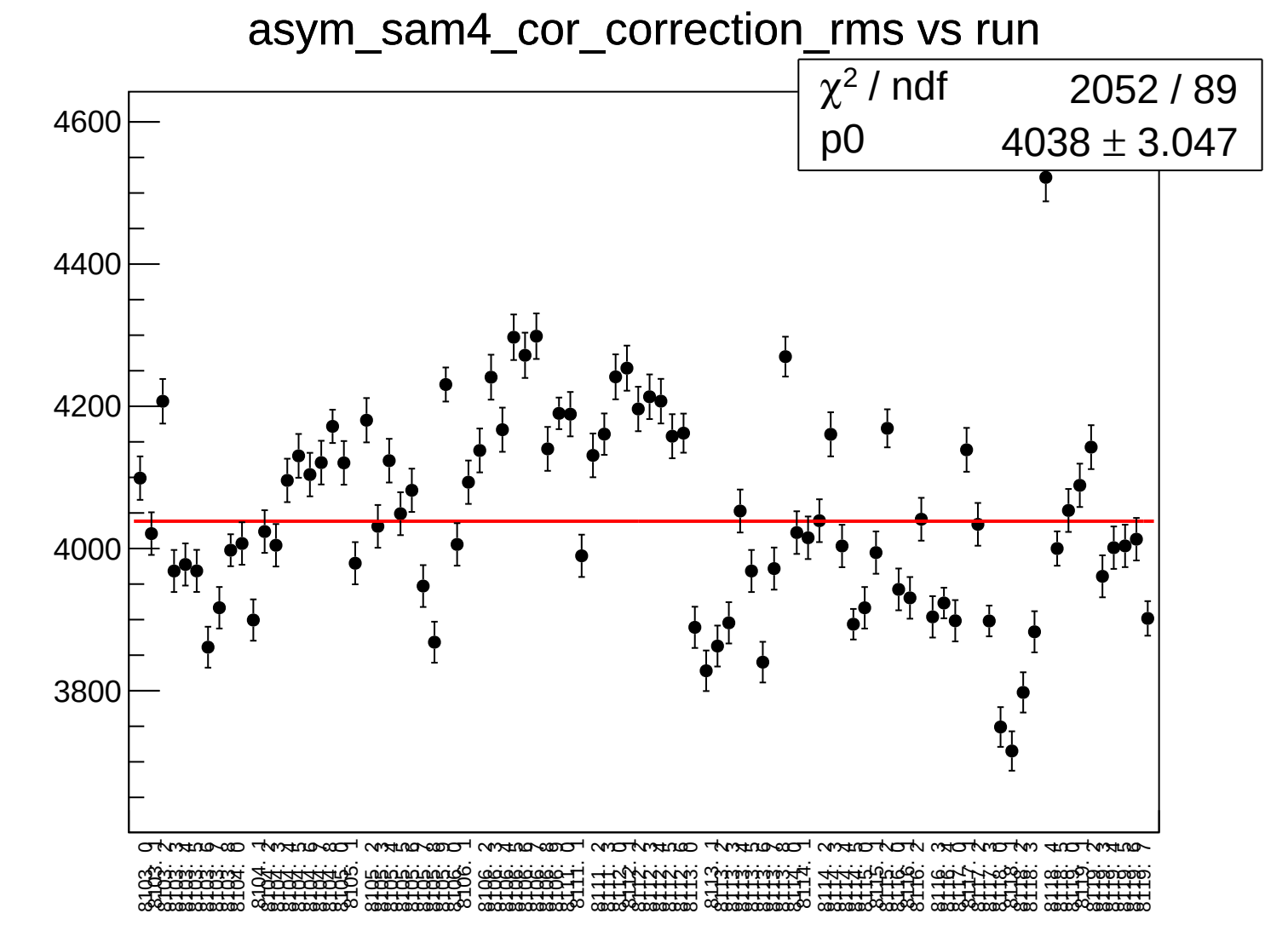

cor_asym_sam4_mean vs run
χ² / ndf 93.49 / 89
p0 136.3 ± 305
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −363.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

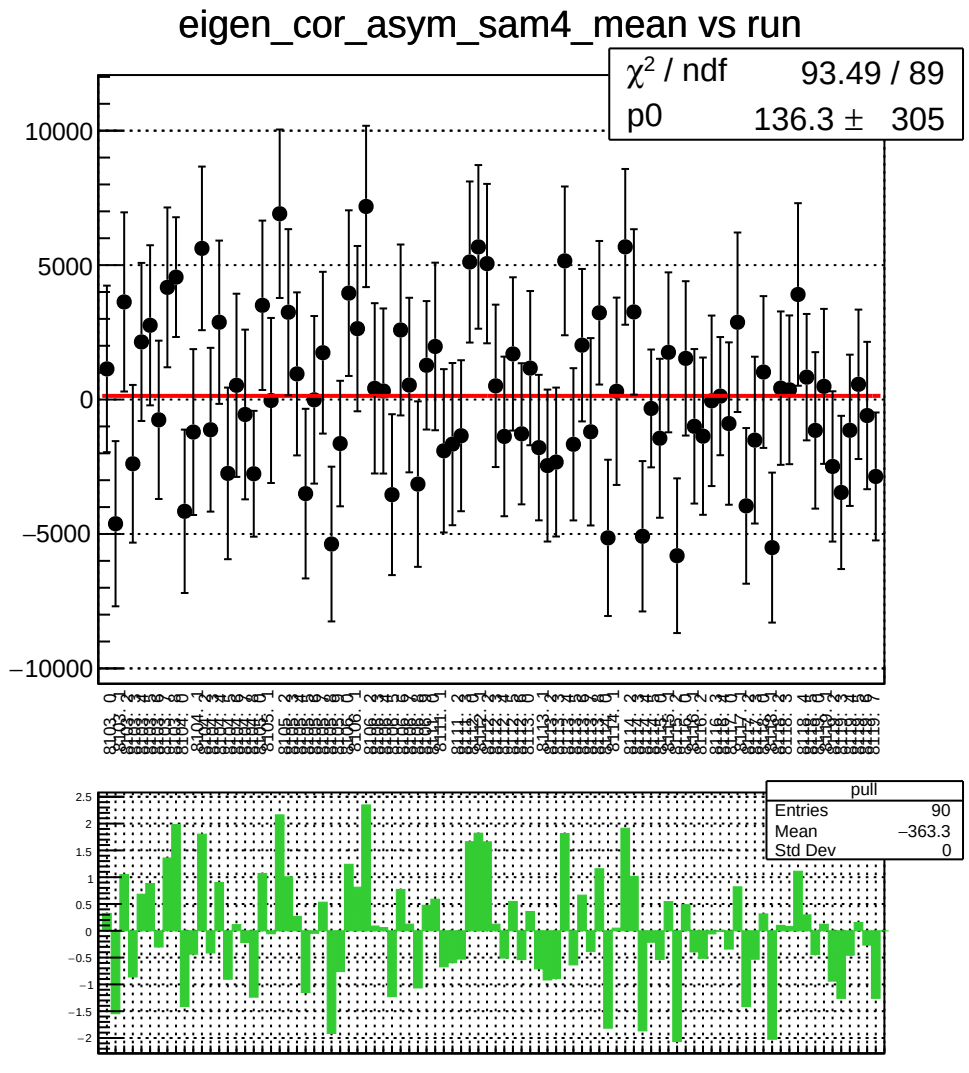

pull1D
Entries 90
Mean 0.0127
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

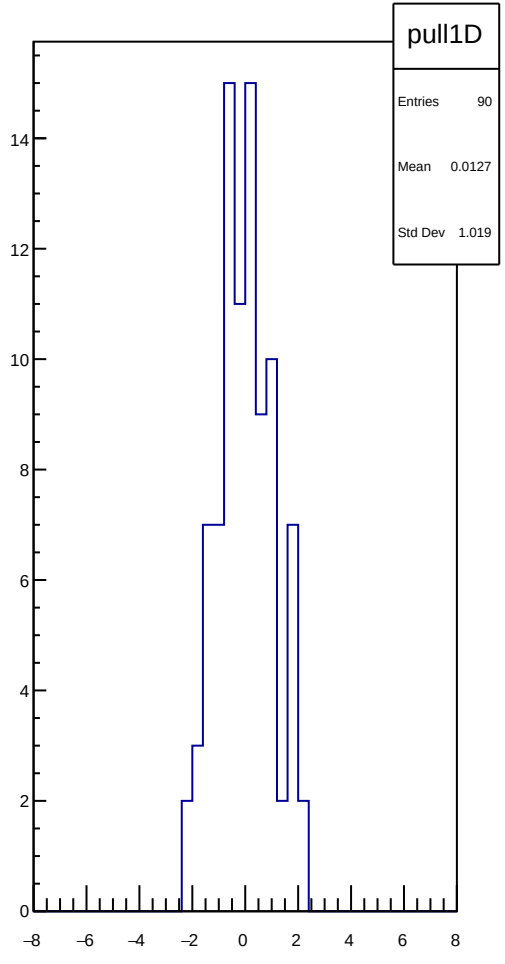

cor_asym_sam4_rms vs run
χ² / ndf 7563 / 89
p0 285.4 ± 0.2156
400
380
360
340
320
300
280
260

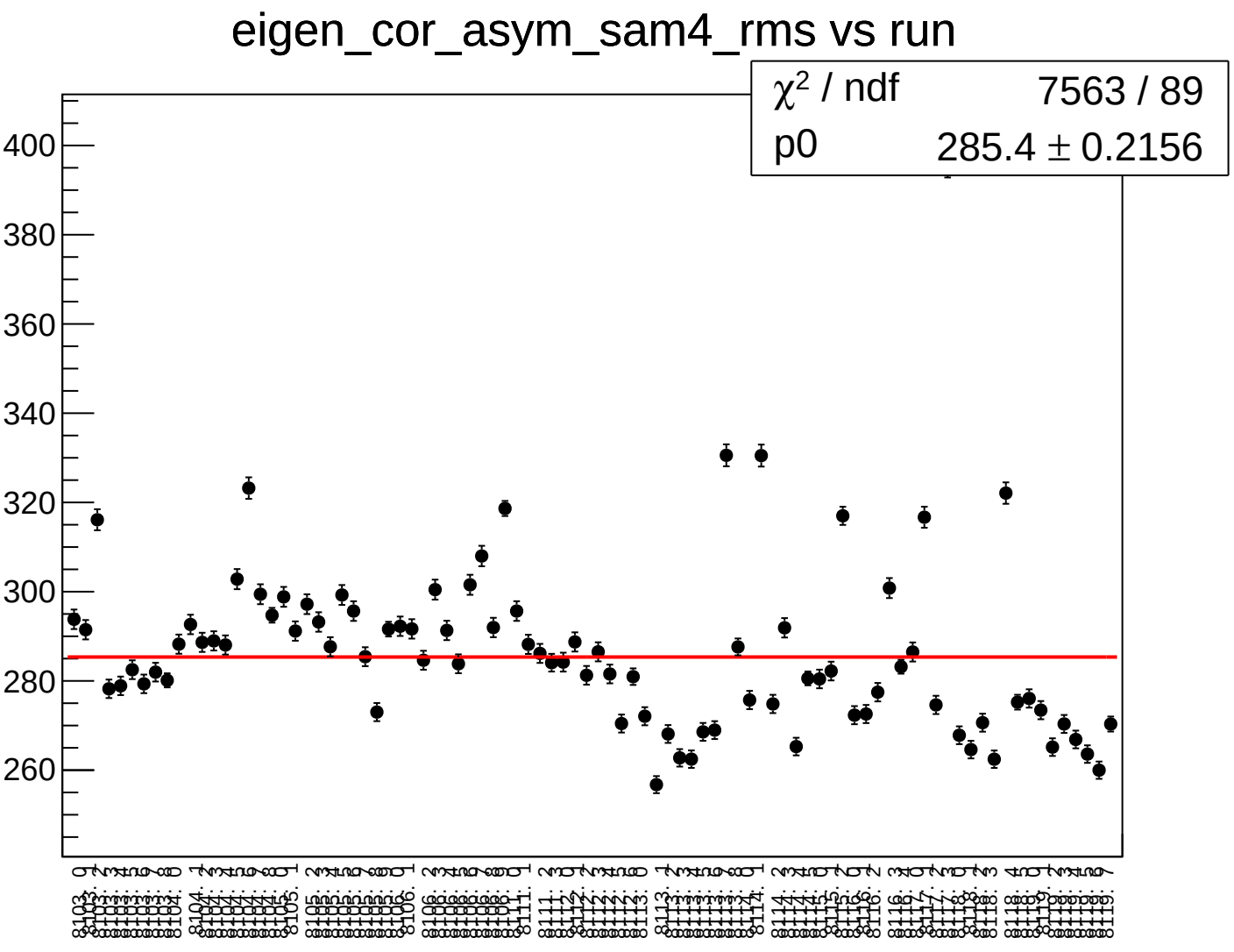

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 101 / 89
p0 −8331 ± 4309
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −683.7
Std Dev 0
2
1
0
−1
−2

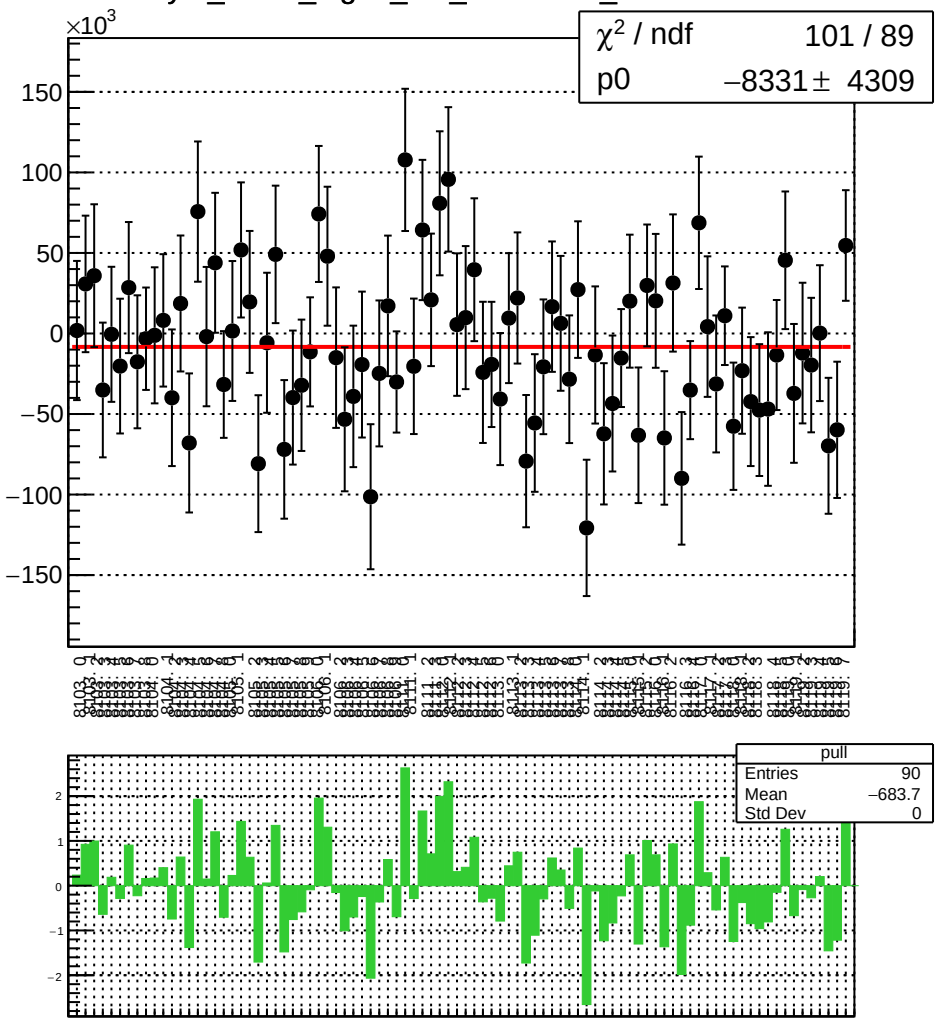

pull1D
Entries 90
Mean 0.006352
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

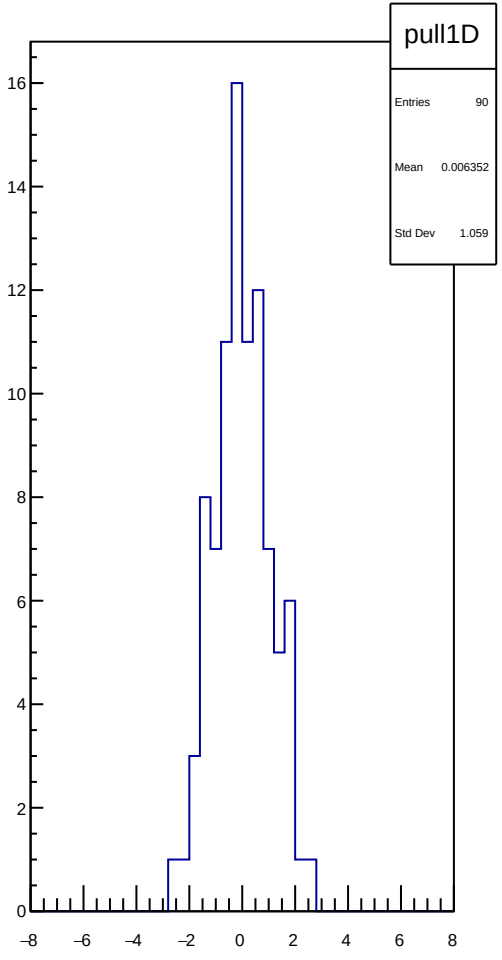

asym_sam4_cor_correction_rms vs run
χ² / ndf 2052 / 89
p0 4038 ± 3.047
4600
4400
4200
4000
3800

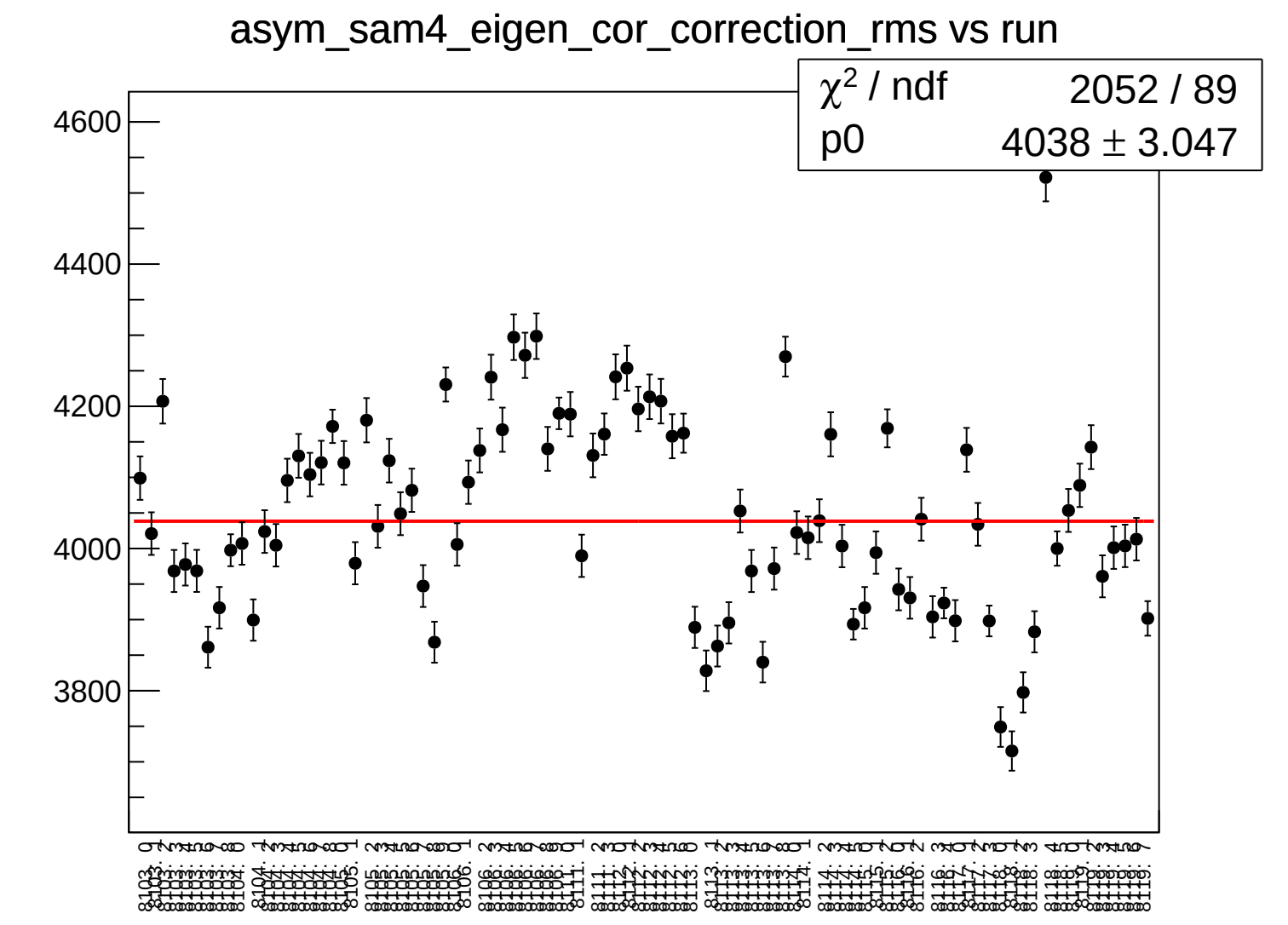

eigen_cor_asym_sam4_mean vs run
χ² / ndf 93.49 / 89
p0 136.3 ± 305
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −363.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

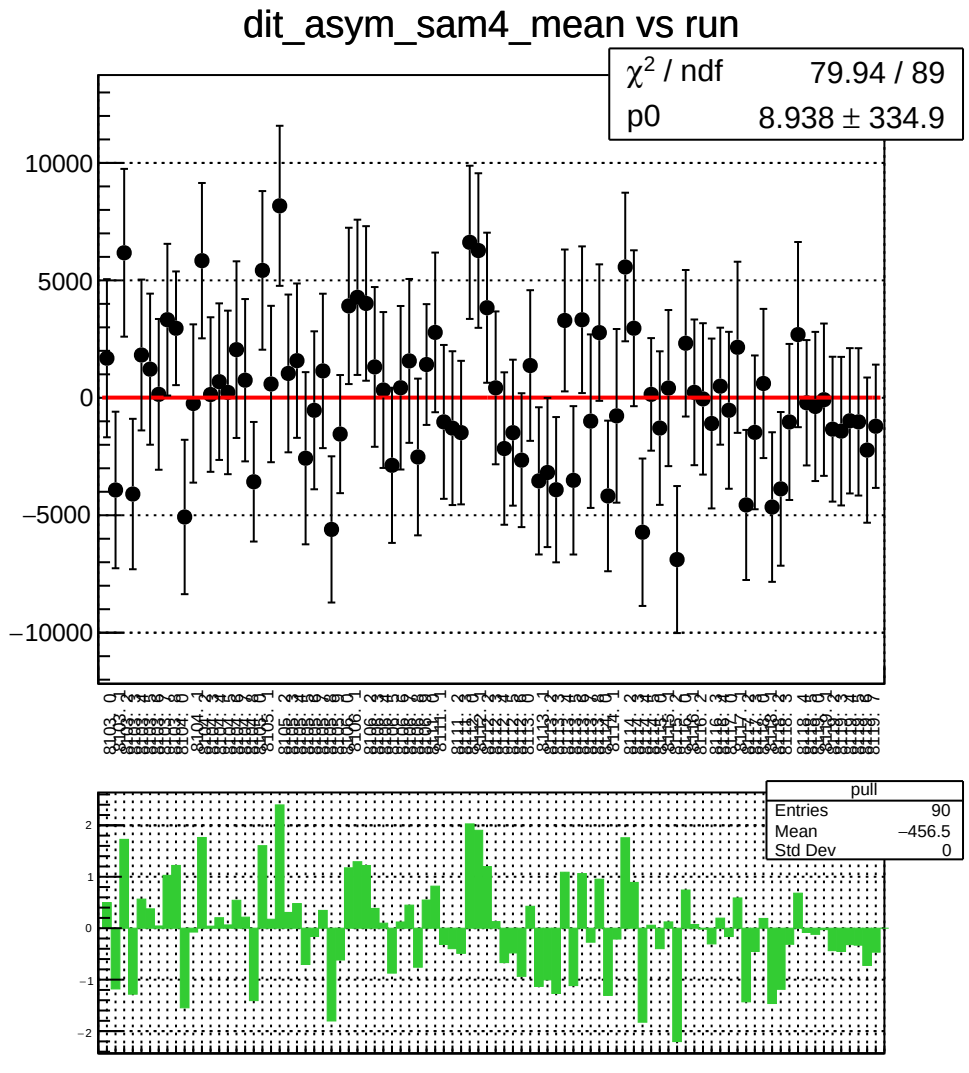

pull1D
Entries 90
Mean 0.0127
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

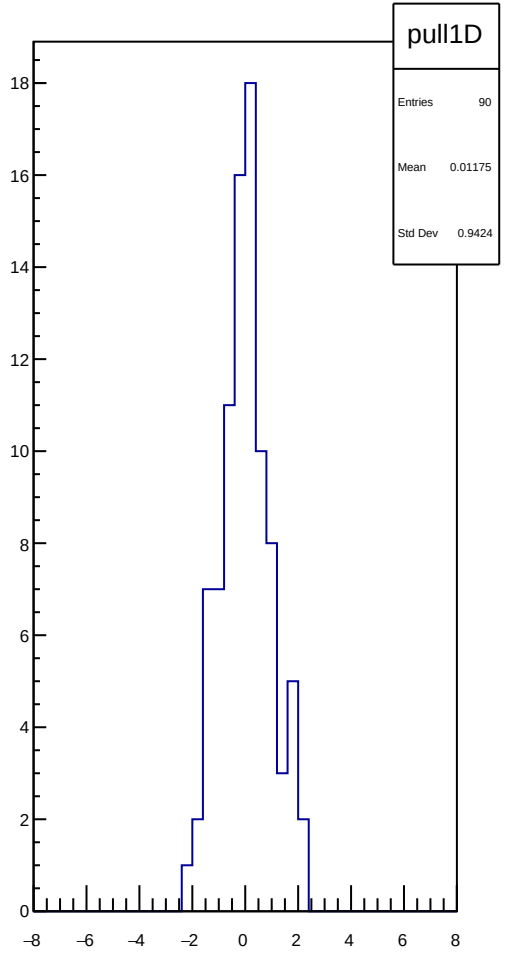

eigen_cor_asym_sam4_rms vs run
χ² / ndf 7563 / 89
p0 285.4 ± 0.2156
400
380
360
340
320
300
280
260


asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101 / 89
p0 −8331 ± 4309
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −683.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 90
Mean 0.006352
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2052 / 89
p0 4038 ± 3.047
4600
4400
4200
4000
3800


dit_asym_sam4_mean vs run
χ² / ndf 79.94 / 89
p0 8.938 ± 334.9
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −456.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 90
Mean 0.01175
Std Dev 0.9424
18
16
14
12
10
8
6
4
2
0
−8
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−4
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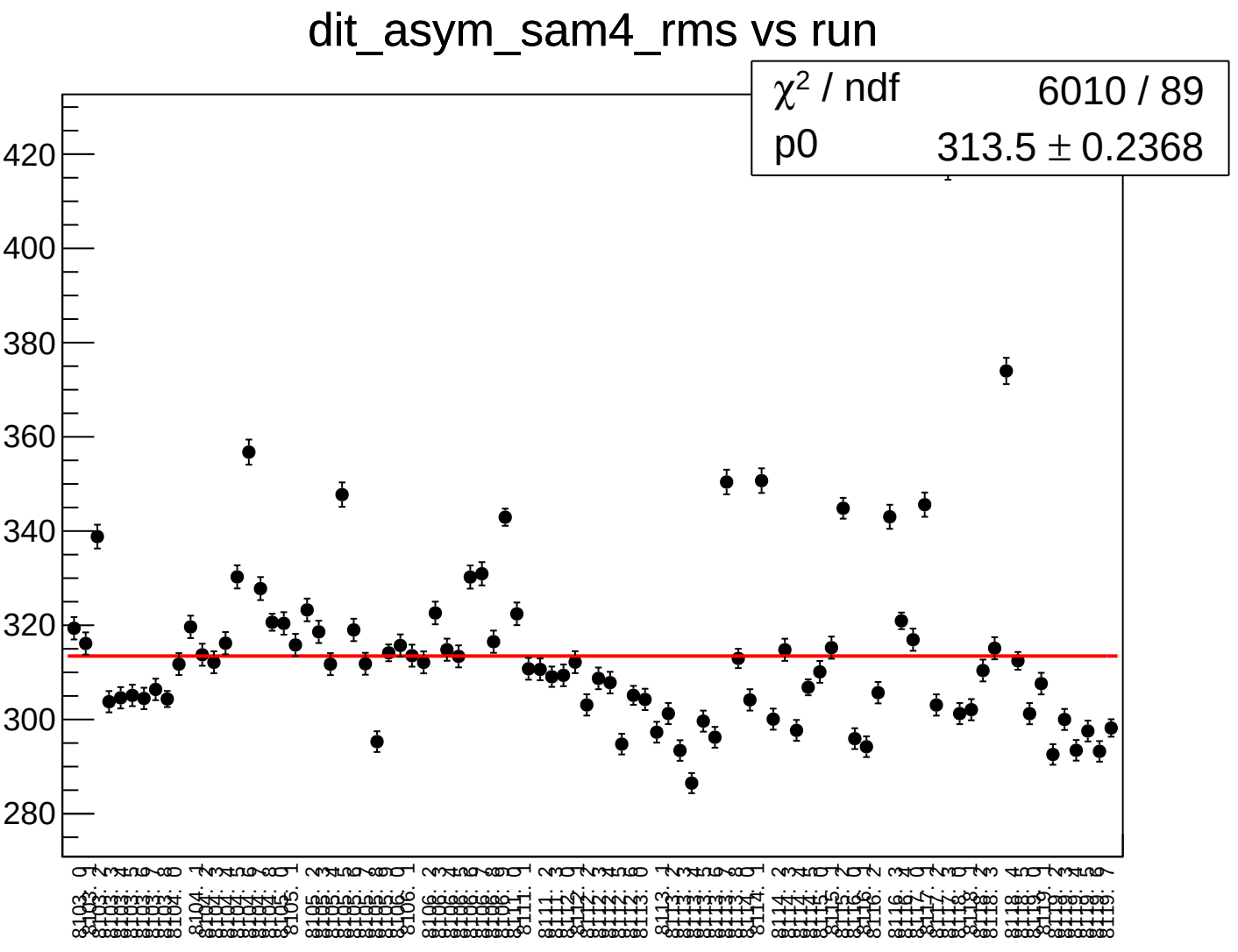
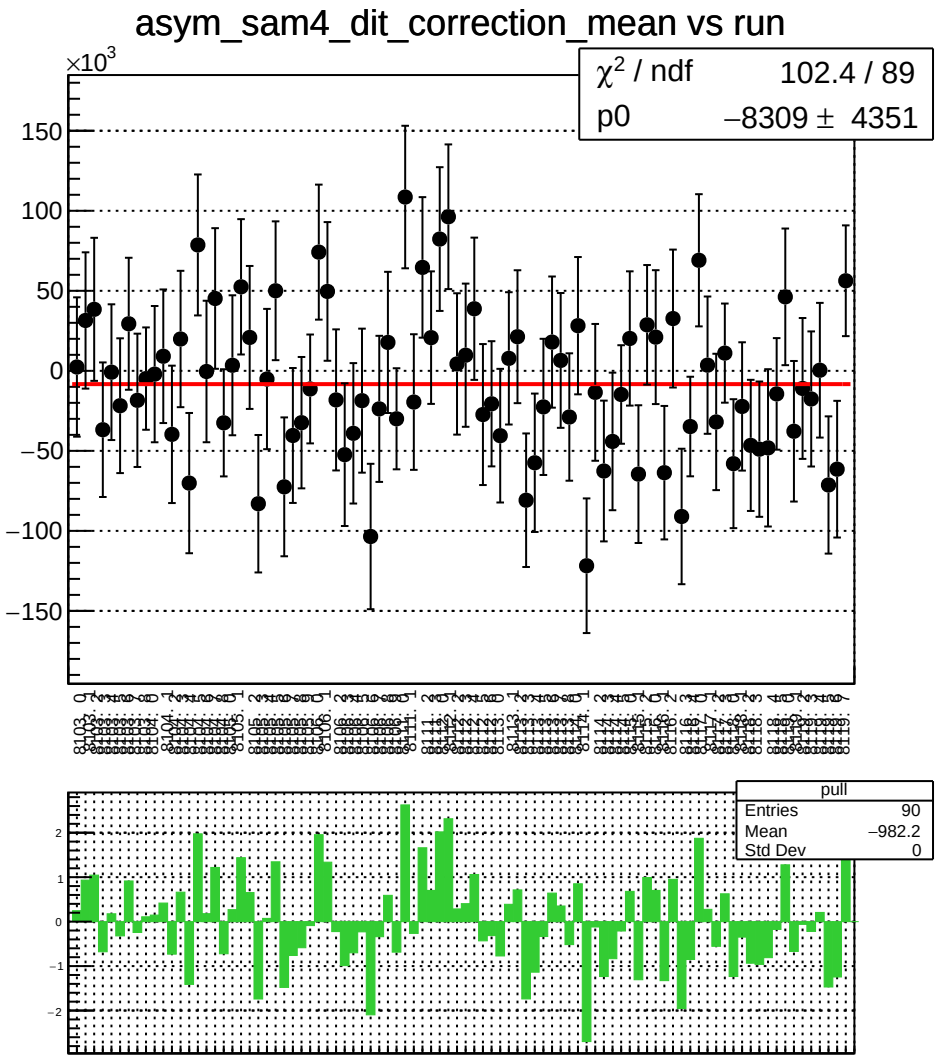
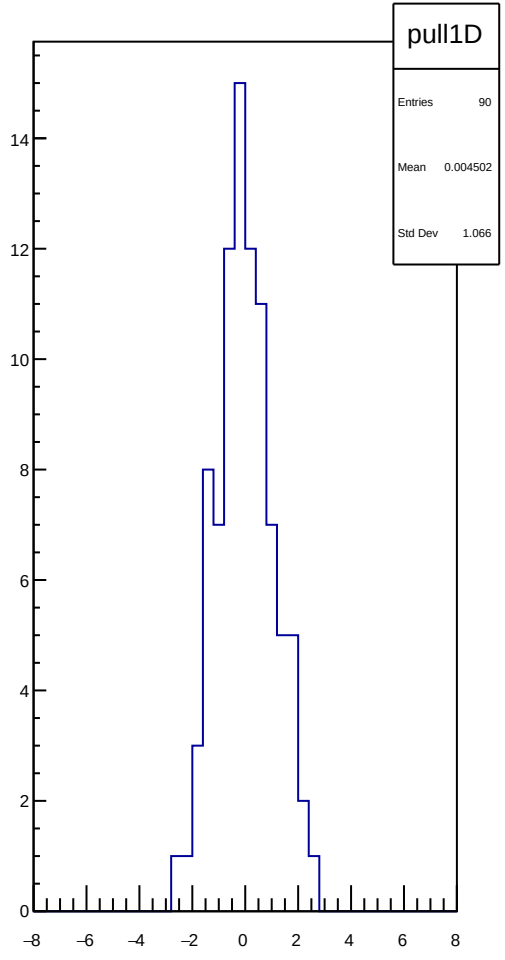
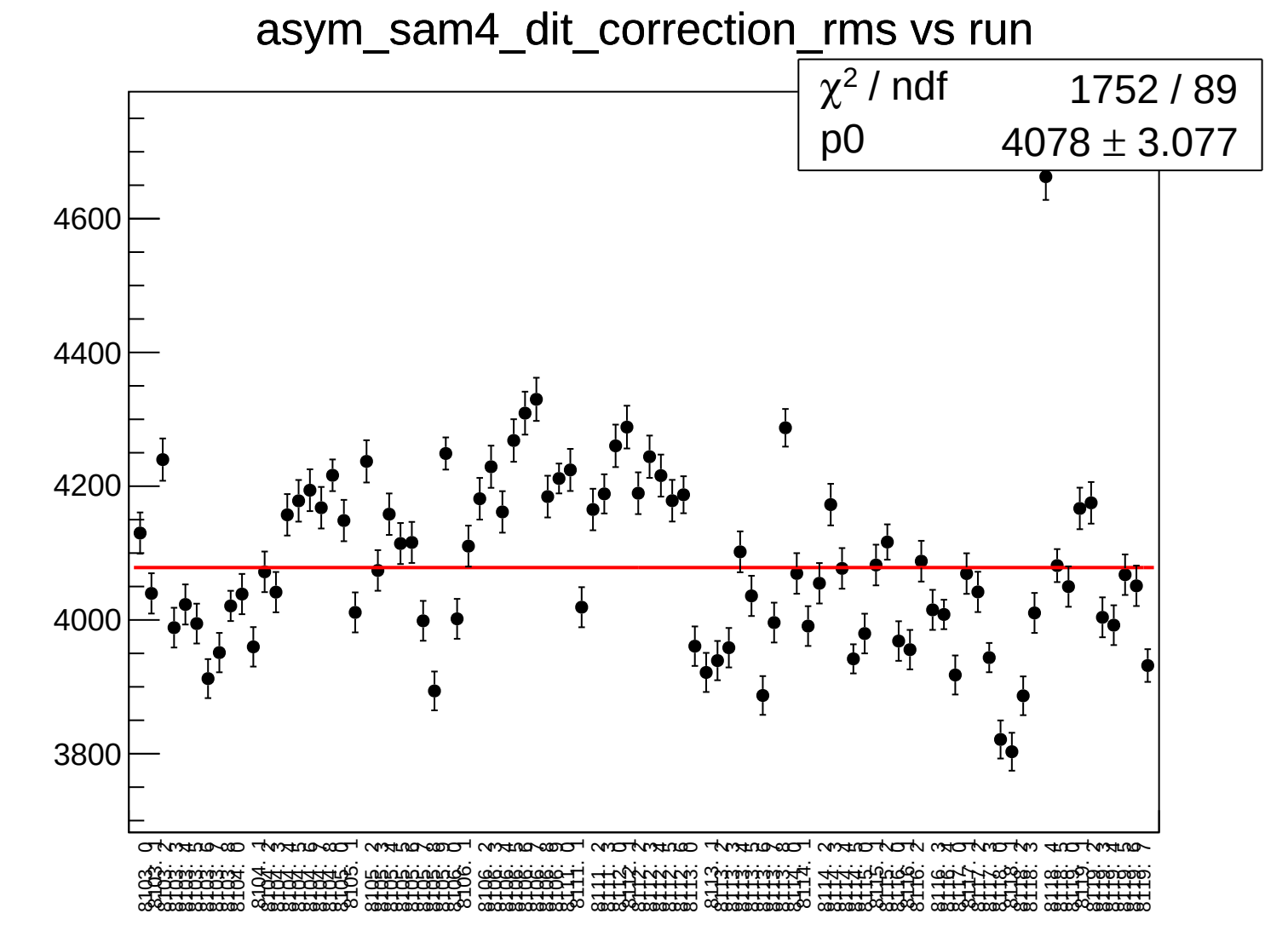
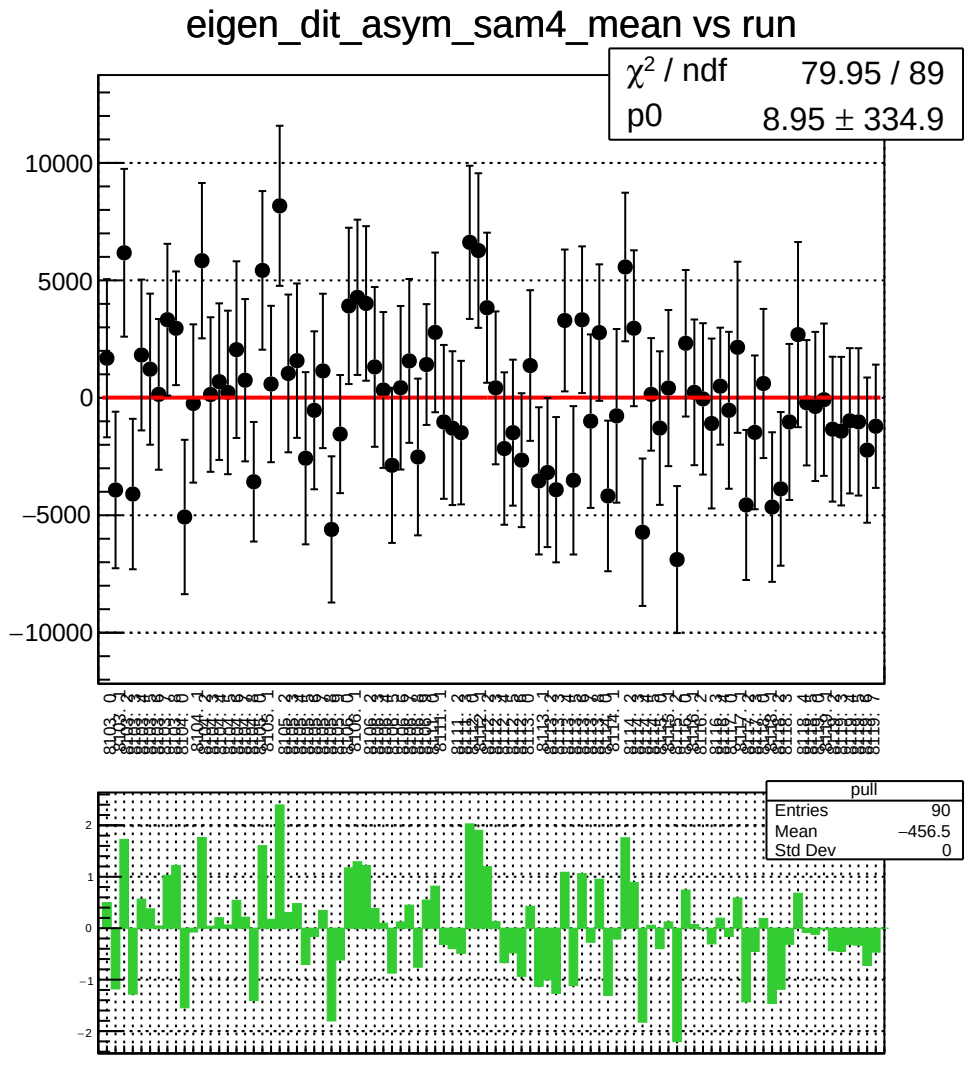
0
2
4
6
8

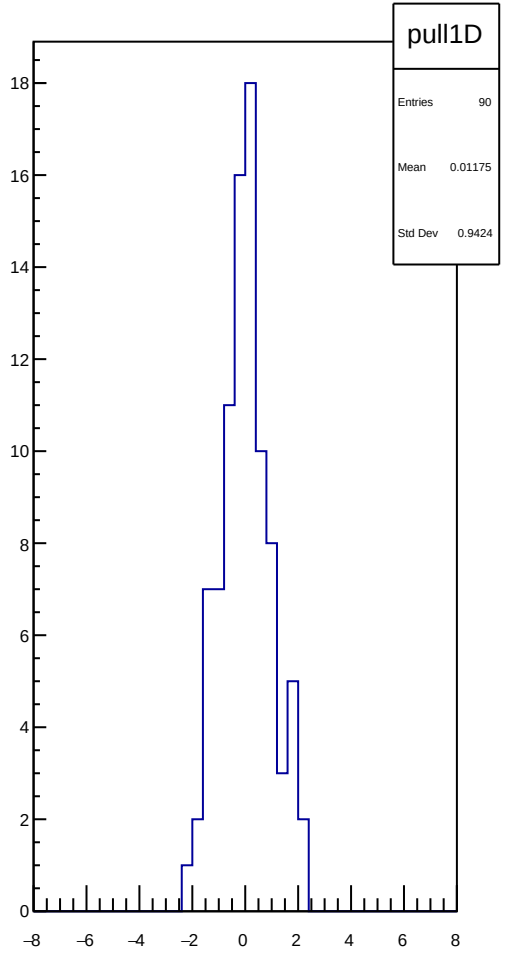

dit_asym_sam4_rms vs run
χ² / ndf 6010 / 89
p0 313.5 ± 0.2368
420
400
380
360
340
320
300
280

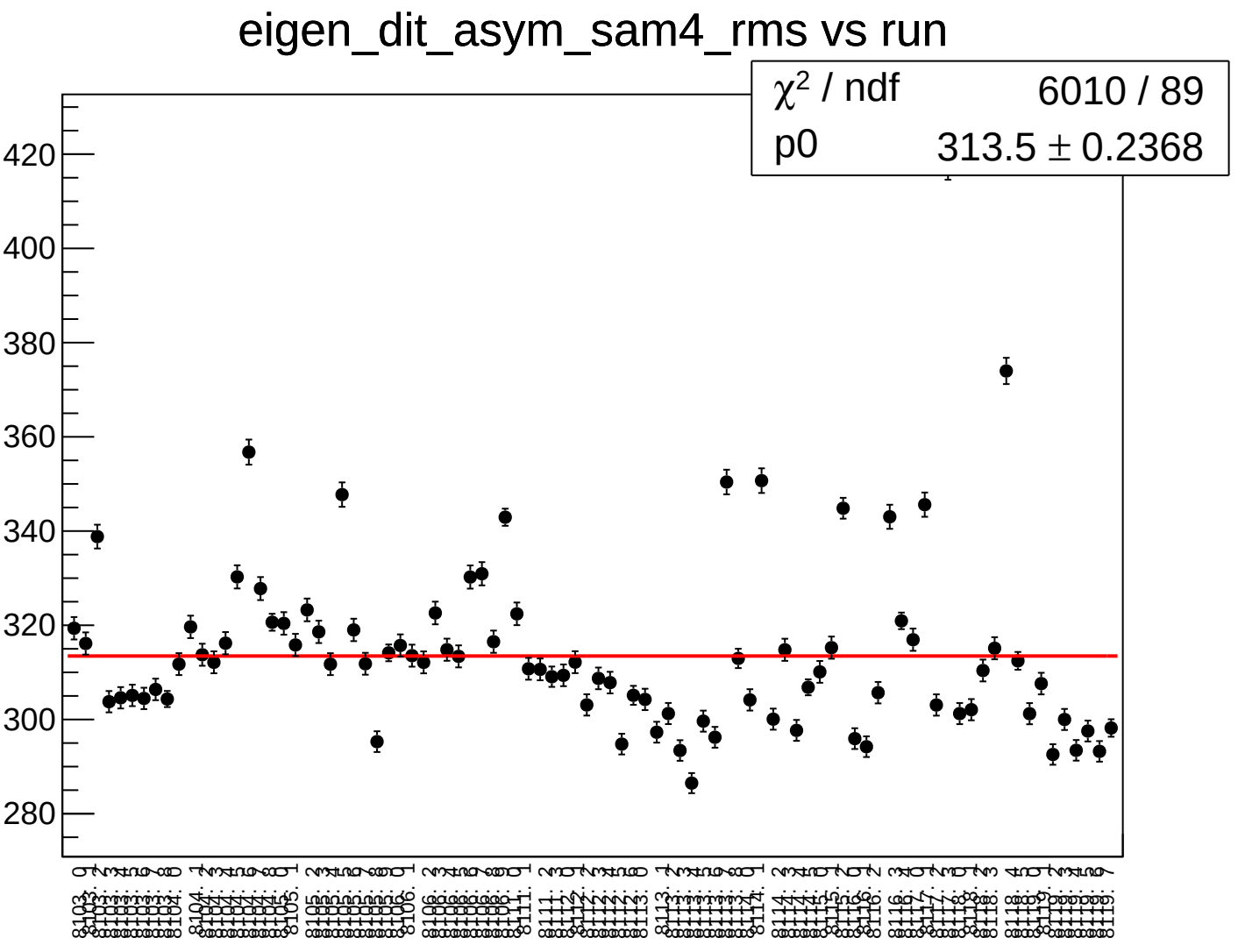

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 102.4 / 89
p0 −8309 ± 4351
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −982.2
Std Dev 0
2
1
0
−1
−2

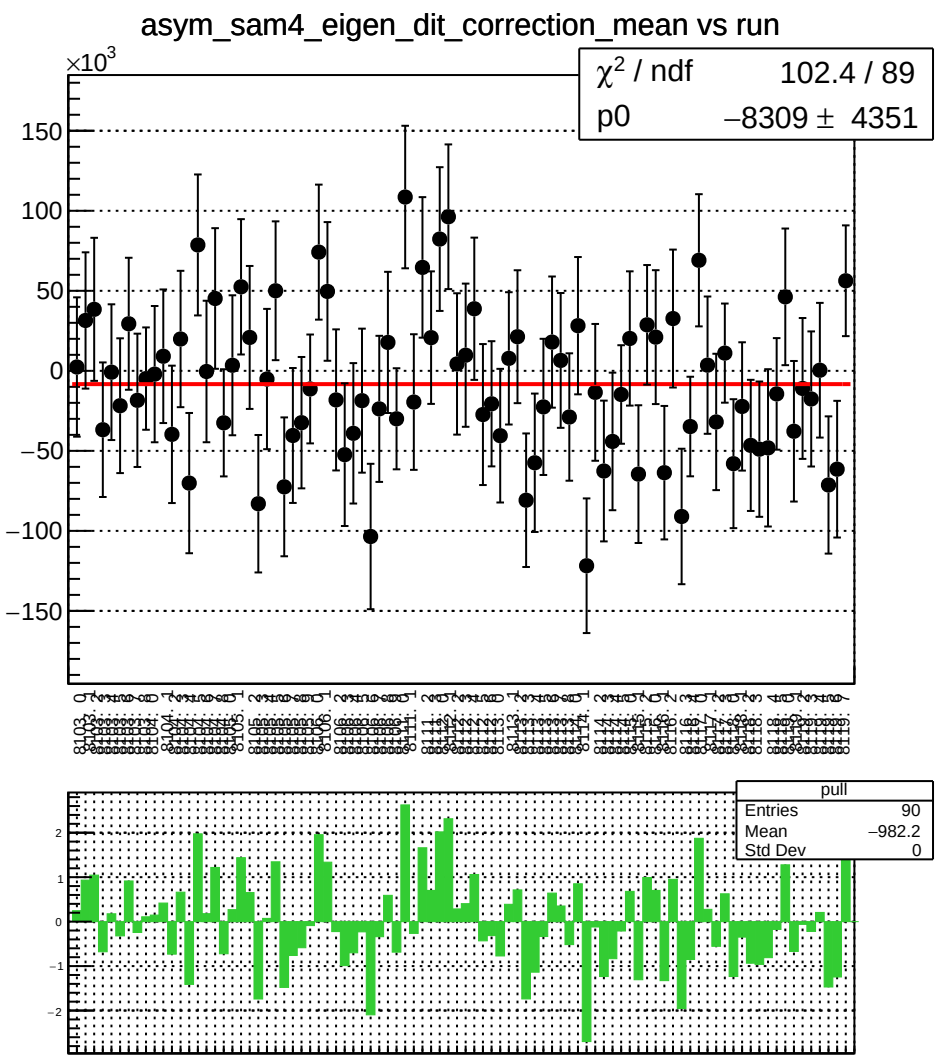

pull1D
Entries 90
Mean 0.004502
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

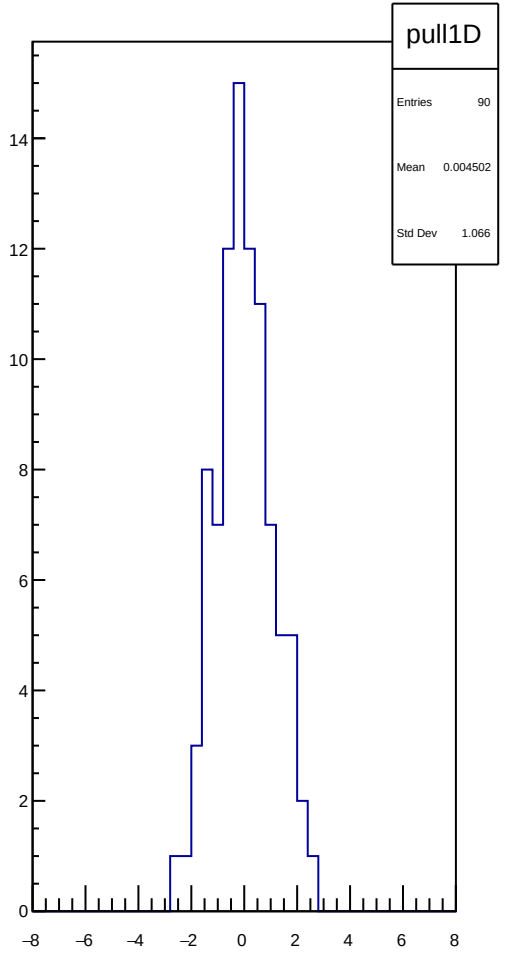

asym_sam4_dit_correction_rms vs run
χ² / ndf 1752 / 89
p0 4078 ± 3.077
4600
4400
4200
4000
3800

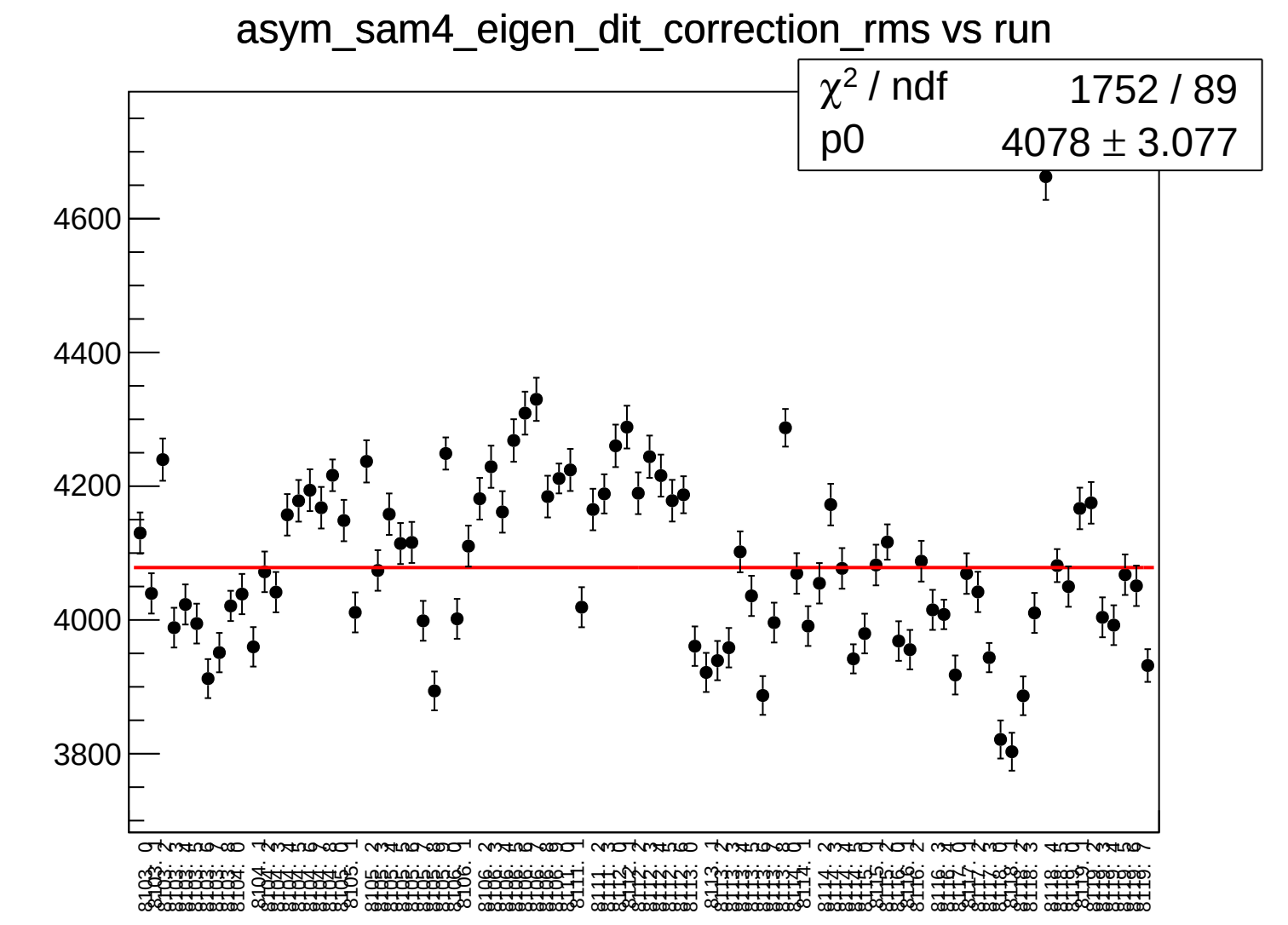

eigen_dit_asym_sam4_mean vs run
χ² / ndf 79.95 / 89
p0 8.95 ± 334.9
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −456.5
Std Dev 0
2
1
0
−1
−2

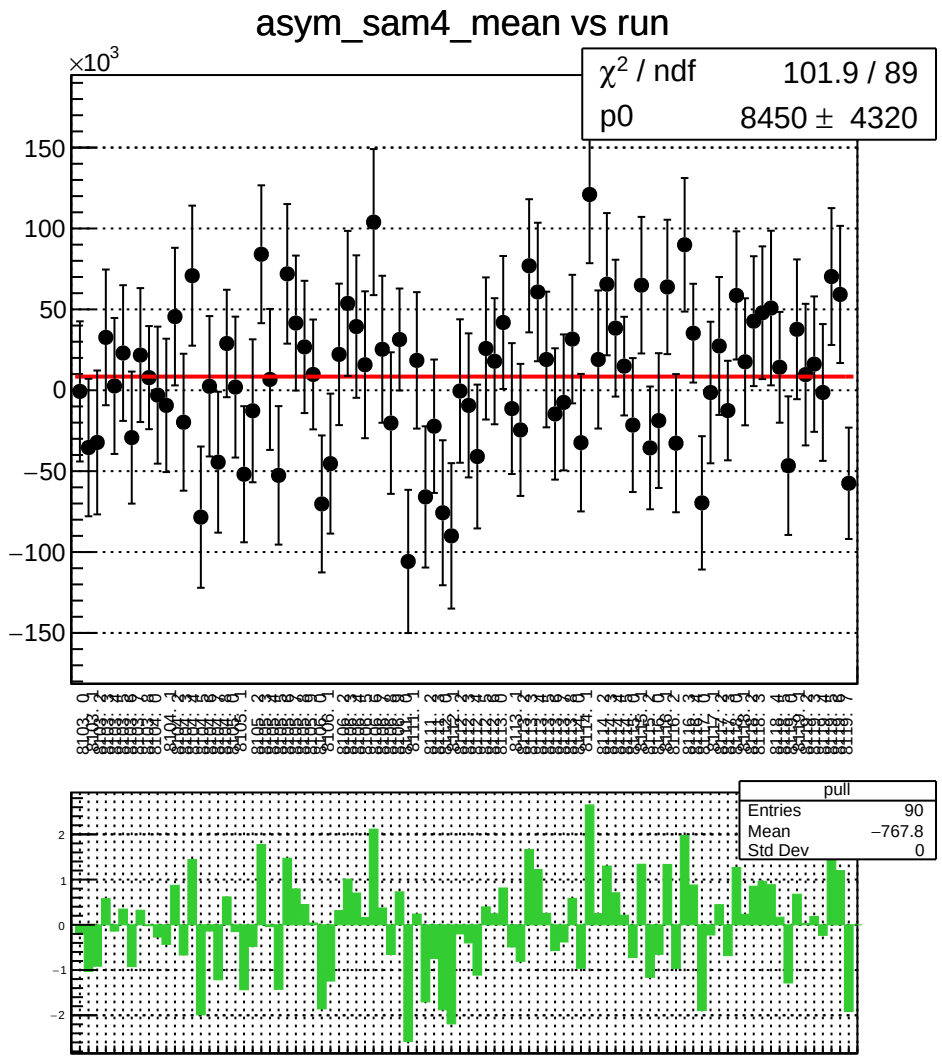

pull1D
Entries 90
Mean 0.01175
Std Dev 0.9424
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

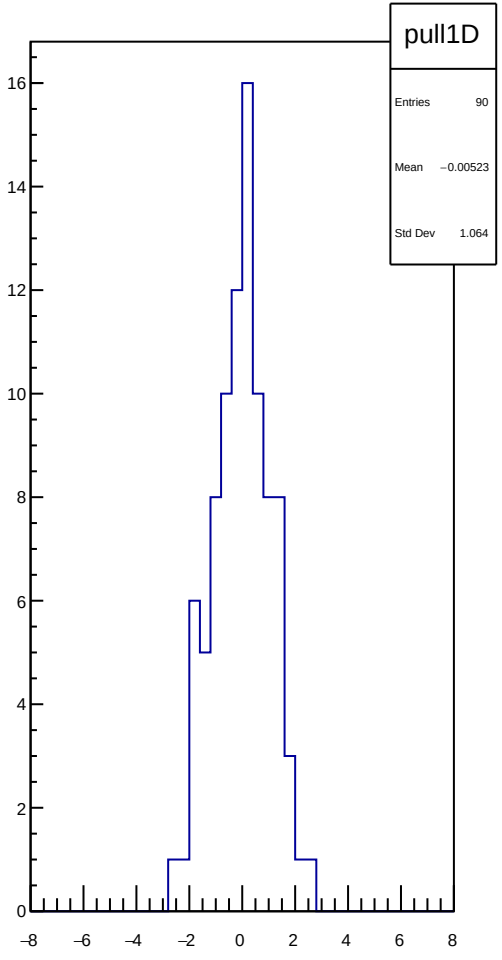

eigen_dit_asym_sam4_rms vs run
χ² / ndf 6010 / 89
p0 313.5 ± 0.2368
420
400
380
360
340
320
300
280

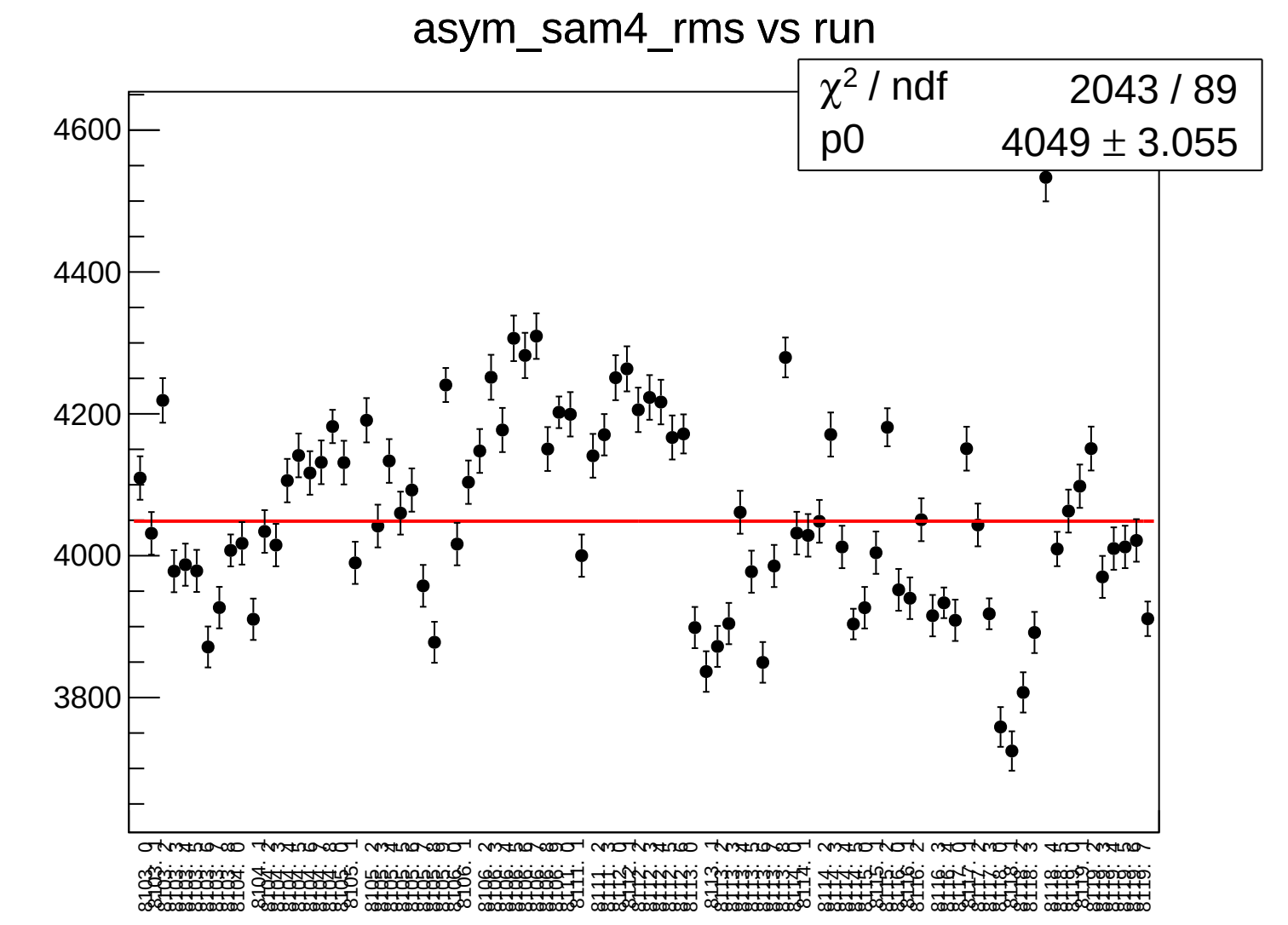

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102.4 / 89
p0 −8309 ± 4351
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −982.2
Std Dev 0
2
1
0
−1
−2

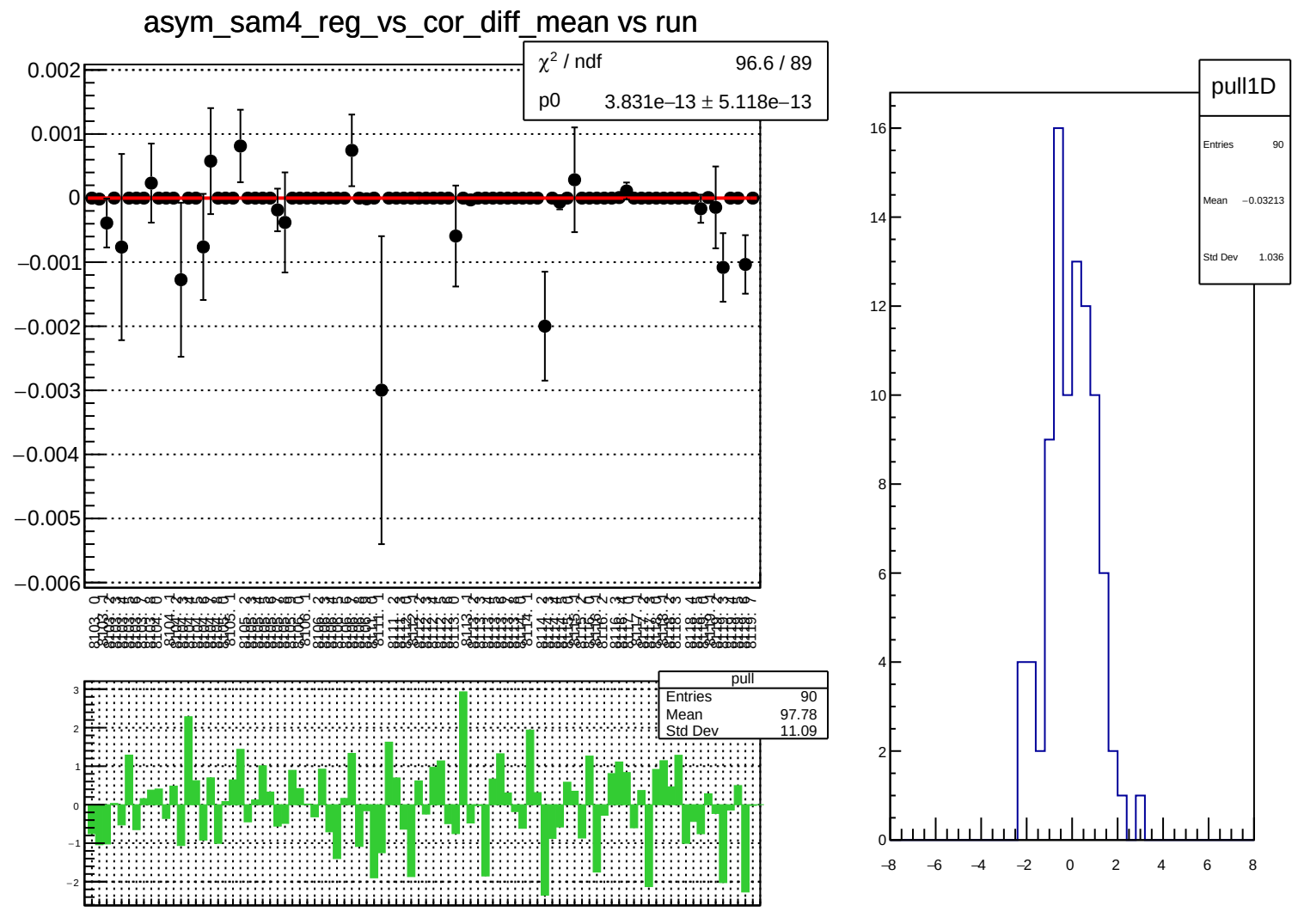

pull1D
Entries 90
Mean 0.004502
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

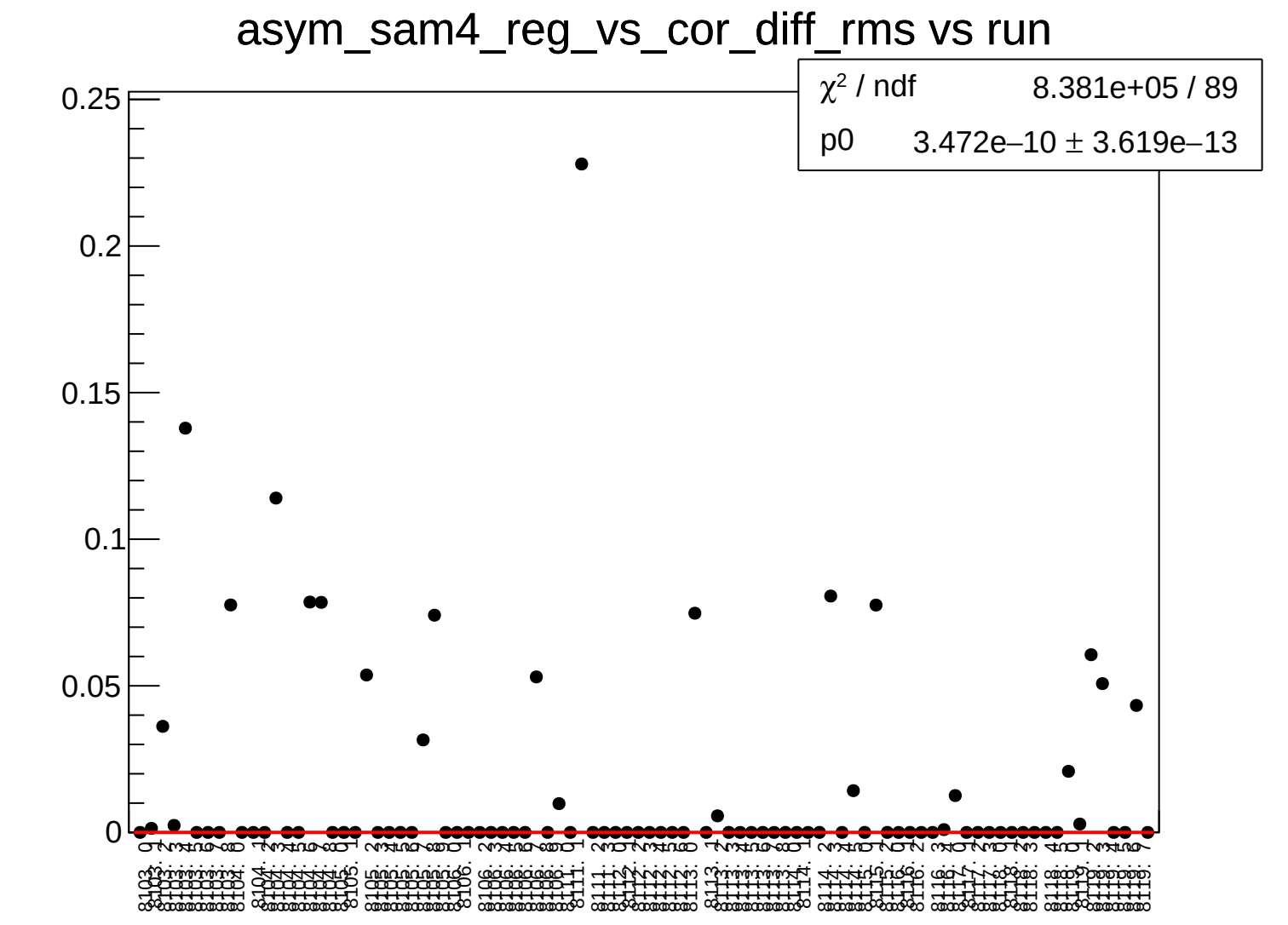

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1752 / 89
p0 4078 ± 3.077
4600
4400
4200
4000
3800

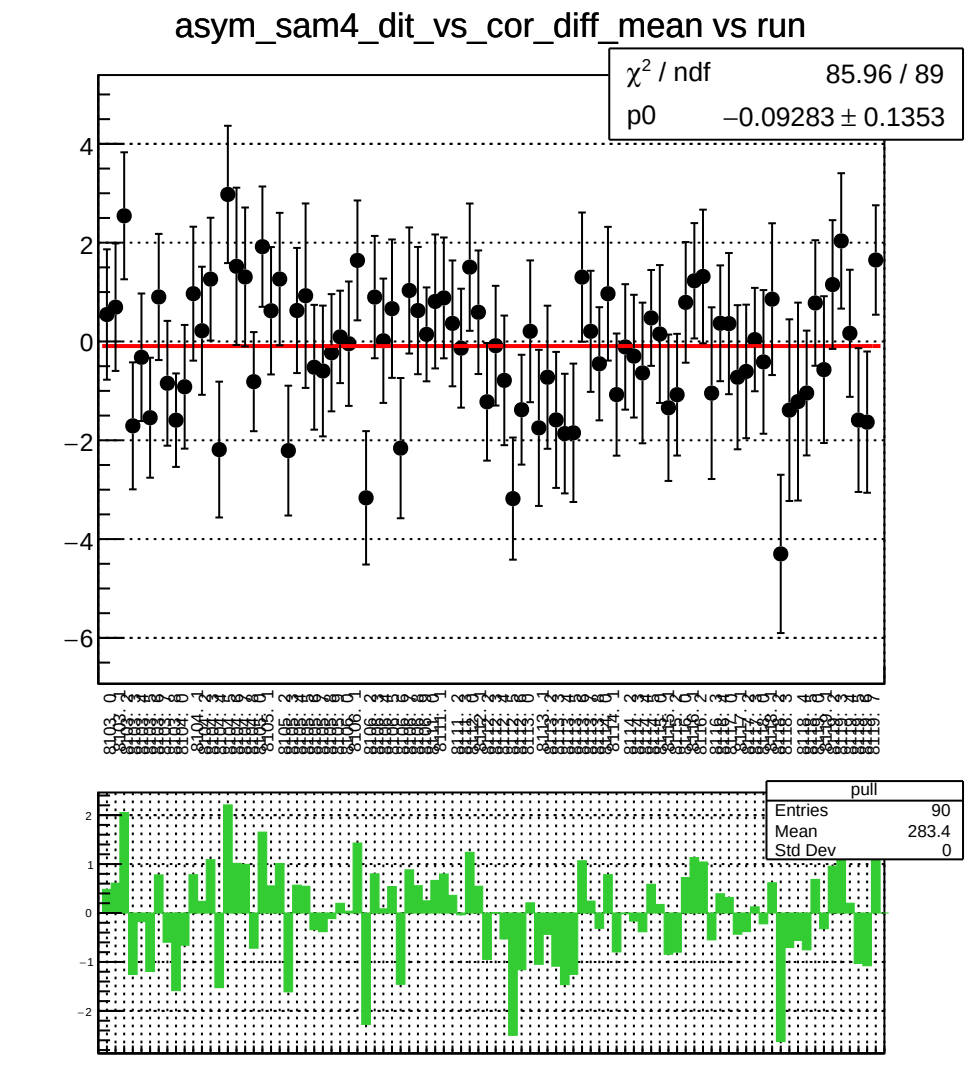

asym_sam4_mean vs run
×10^3
χ^2 / ndf 101.9 / 89
p0 8450 ± 4320
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −767.8
Std Dev 0
2
1
0
−1
−2

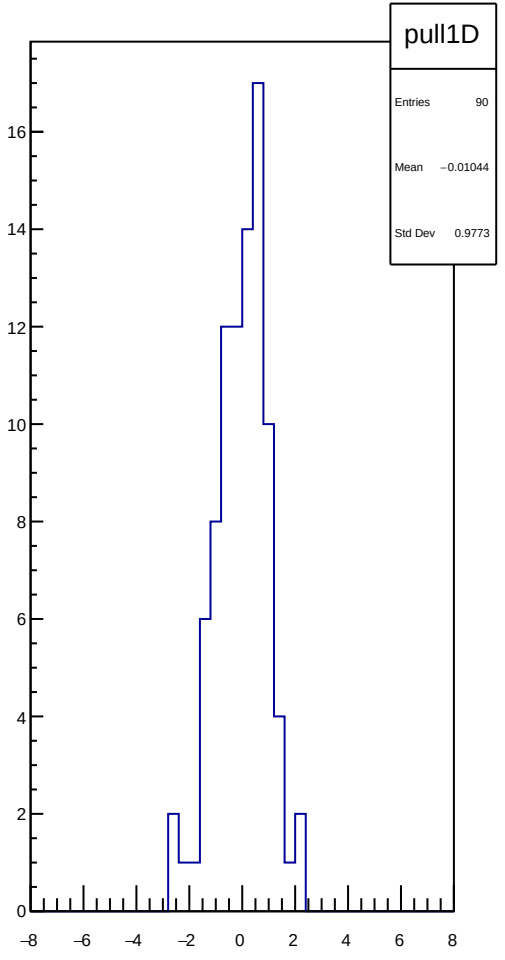

pull1D
Entries 90
Mean −0.00523
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

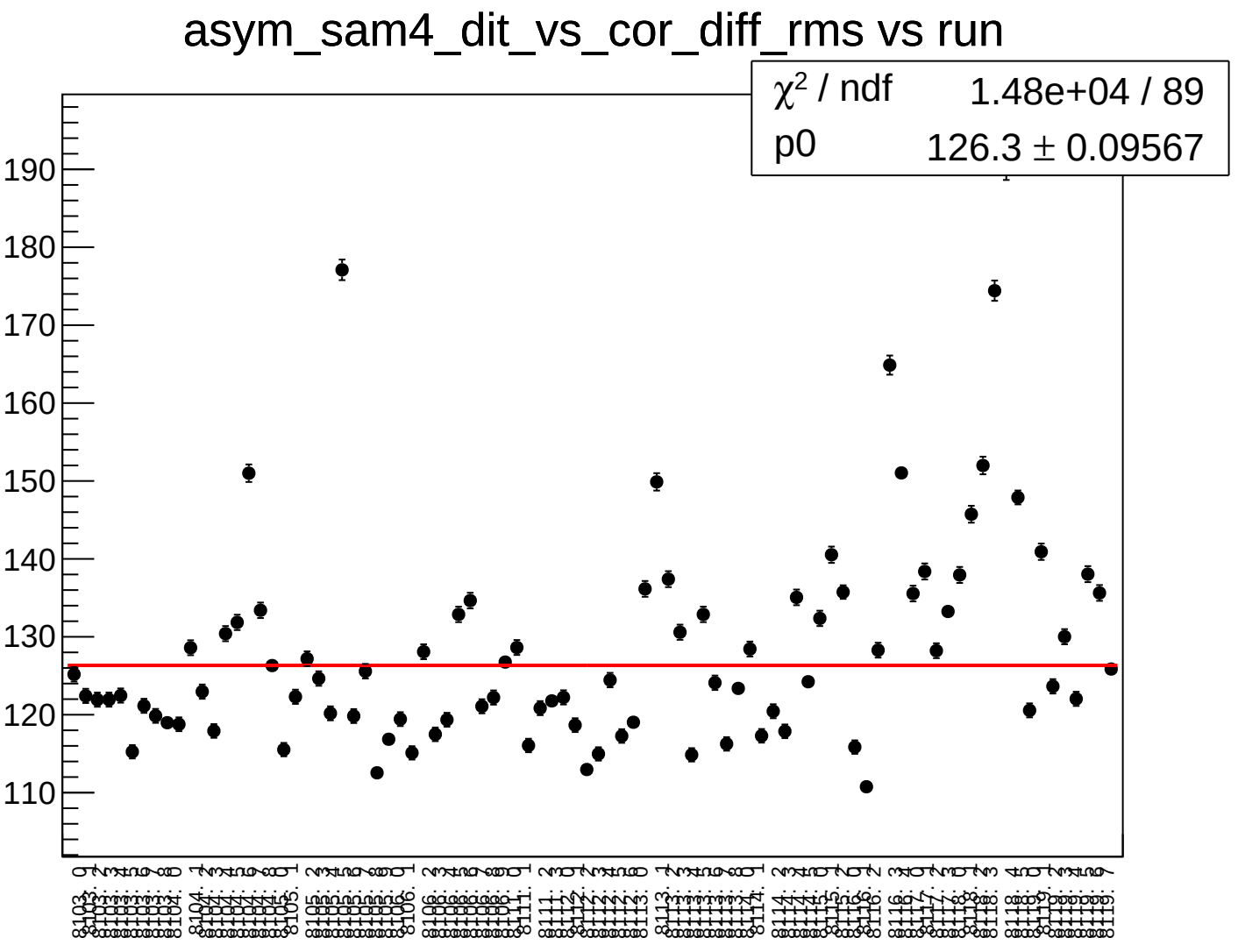

asym_sam4_rms vs run
χ² / ndf 2043 / 89
p0 4049 ± 3.055
4600
4400
4200
4000
3800

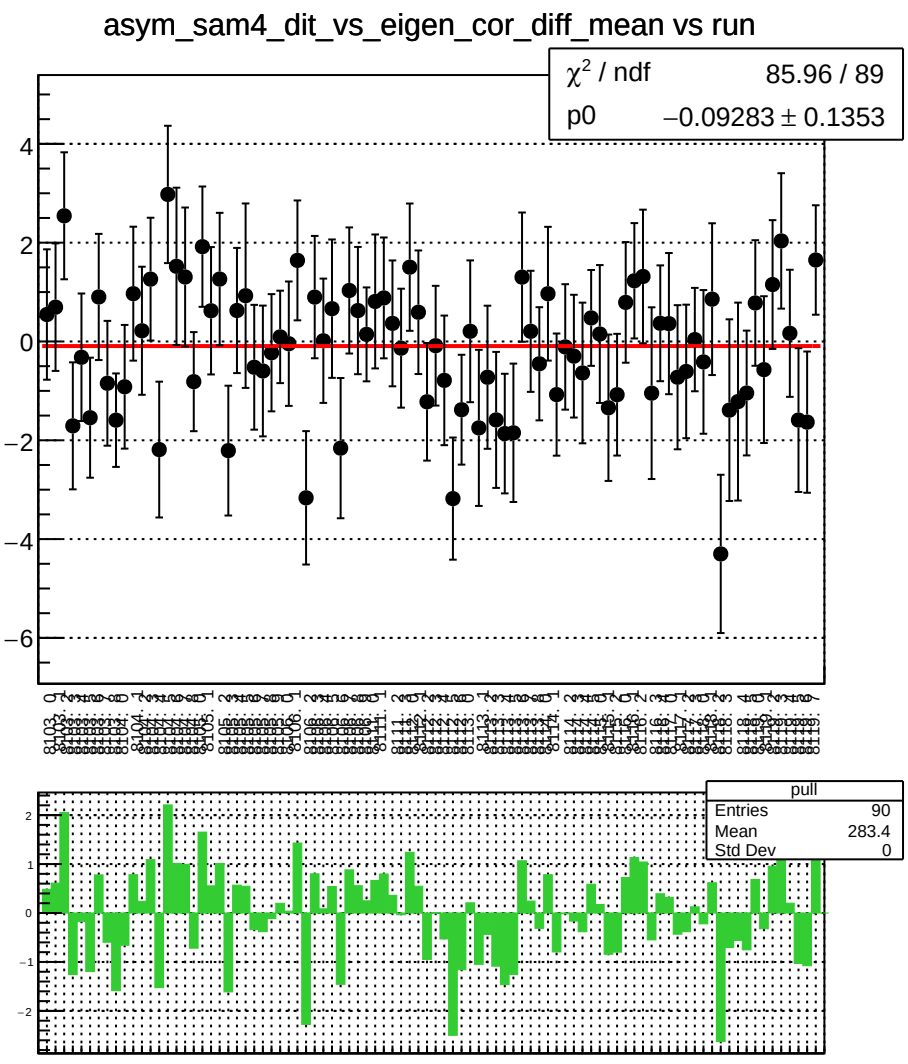

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 96.6 / 89
p0 3.831e−13 ± 5.118e−13
pull
Entries 90
Mean 97.78
Std Dev 11.09
pull1D
Entries 90
Mean −0.03213
Std Dev 1.036

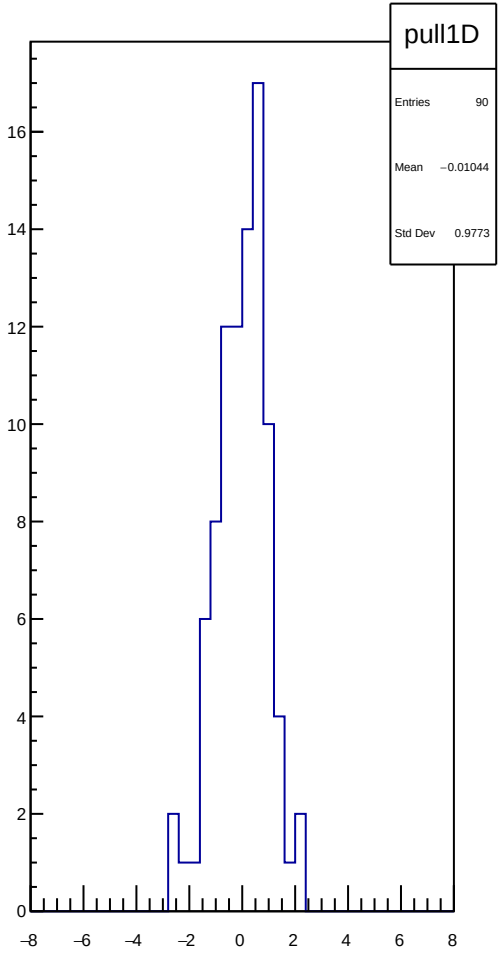

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 8.381e+05 / 89
p0 3.472e−10 ± 3.619e−13
0.25
0.2
0.15
0.1
0.05
0

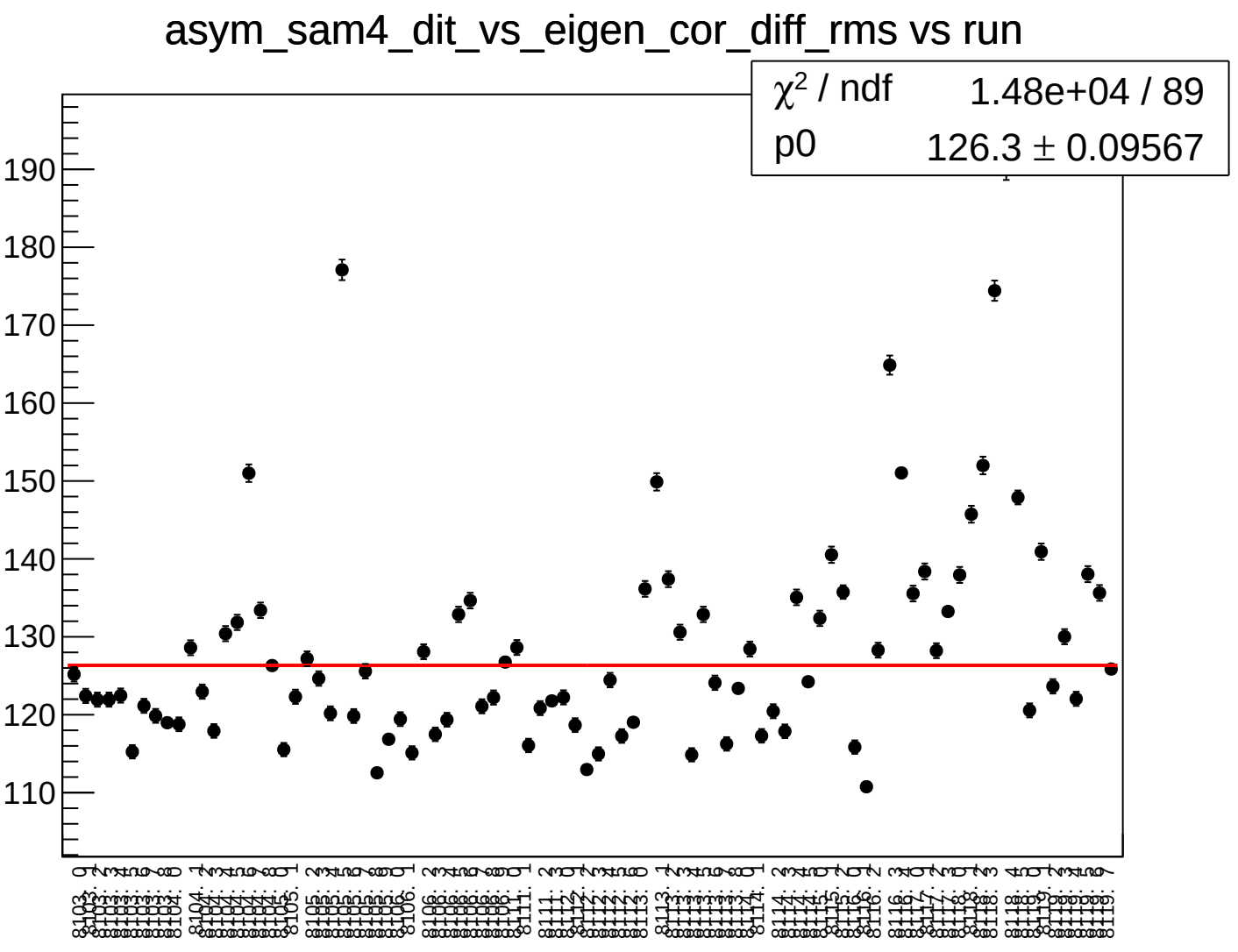

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 85.96 / 89
p0 −0.09283 ± 0.1353
pull
Entries 90
Mean 283.4
Std Dev 0

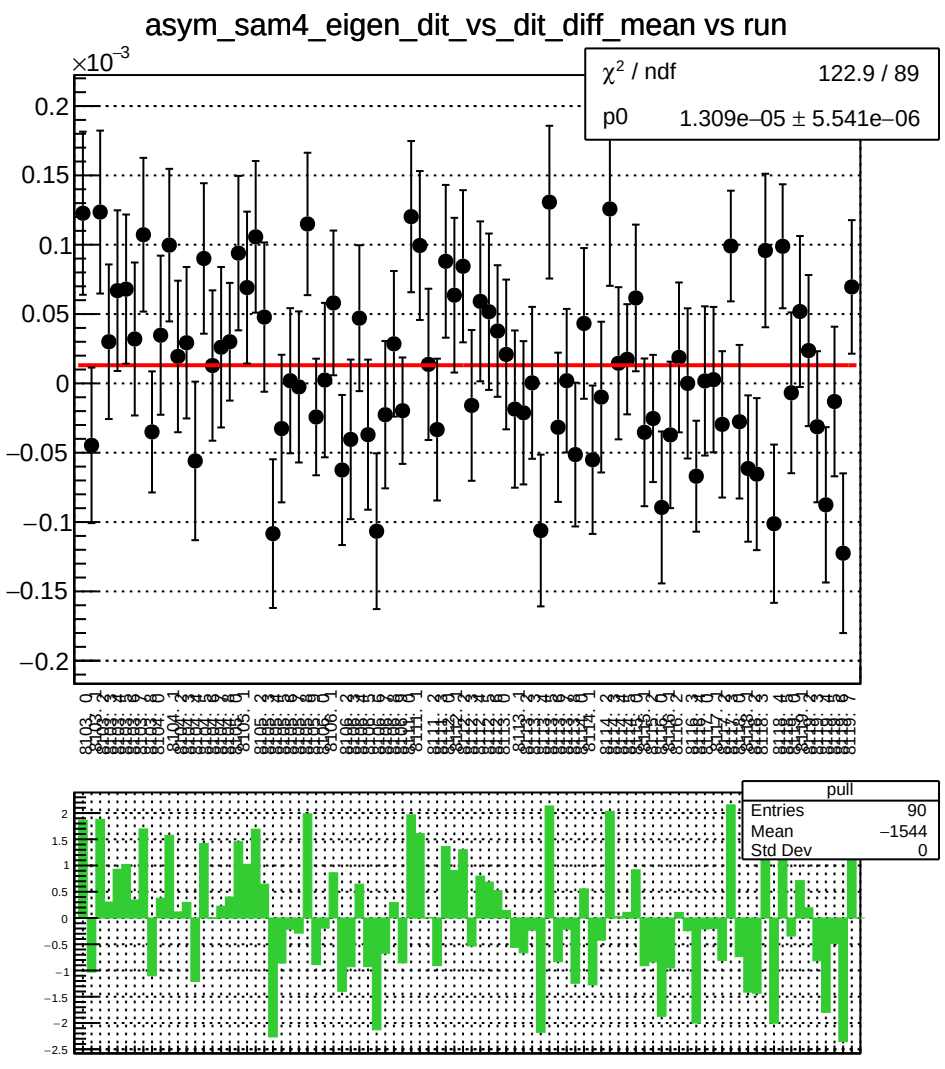

pull1D
Entries 90
Mean −0.01044
Std Dev 0.9773

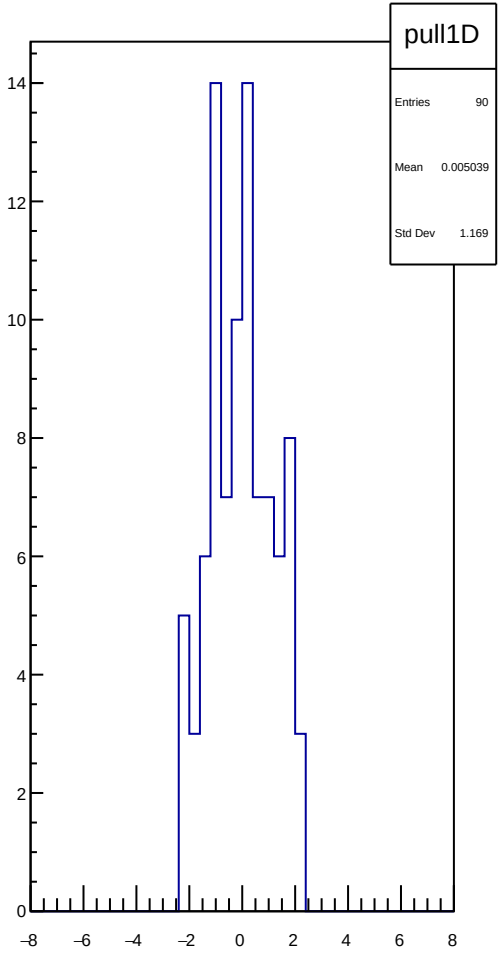

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.48e+04 / 89
p0 126.3 ± 0.09567
190
180
170
160
150
140
130
120
110

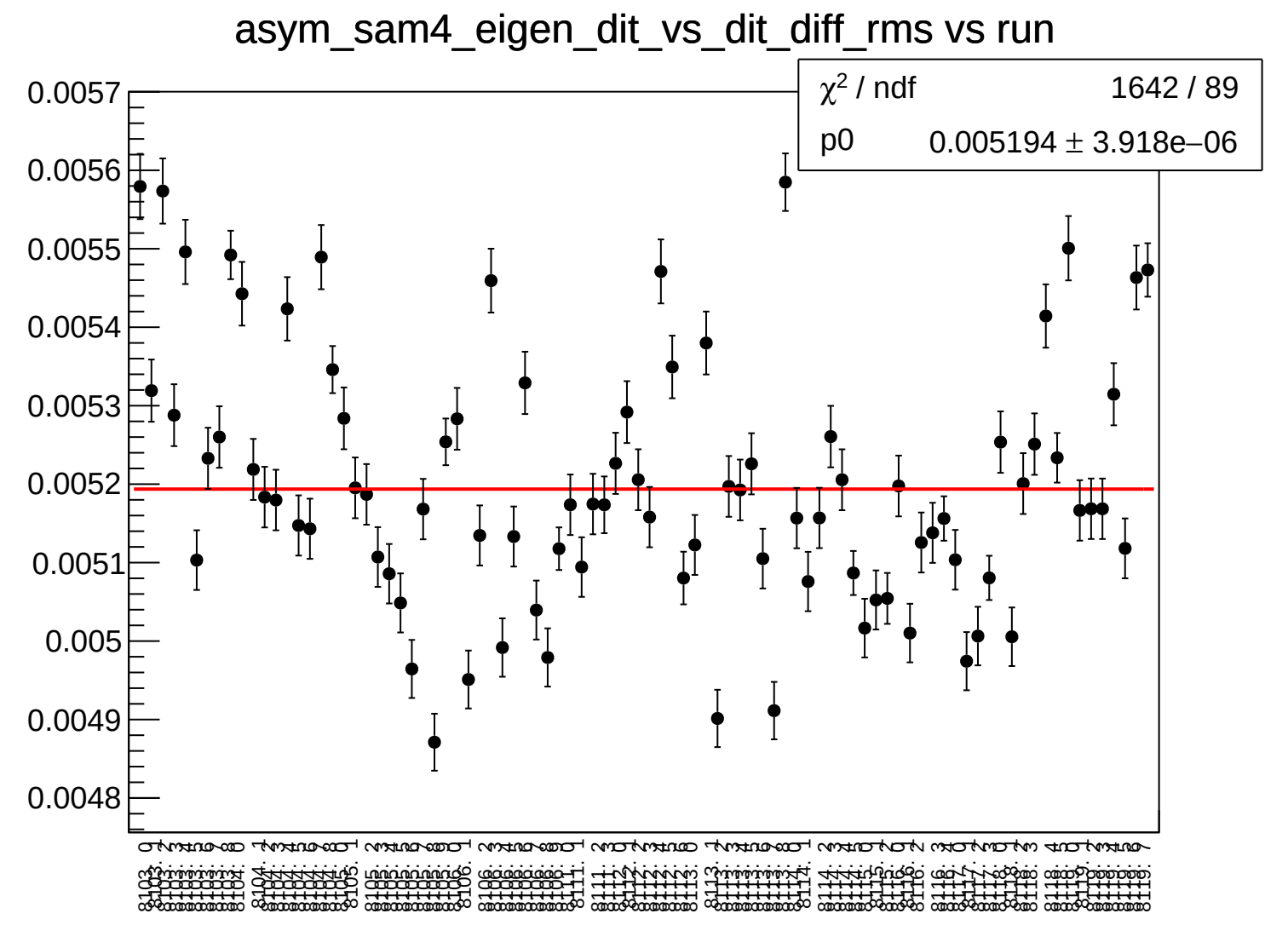

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.96 / 89
p0 −0.09283 ± 0.1353
pull
Entries 90
Mean 283.4
Std Dev 0

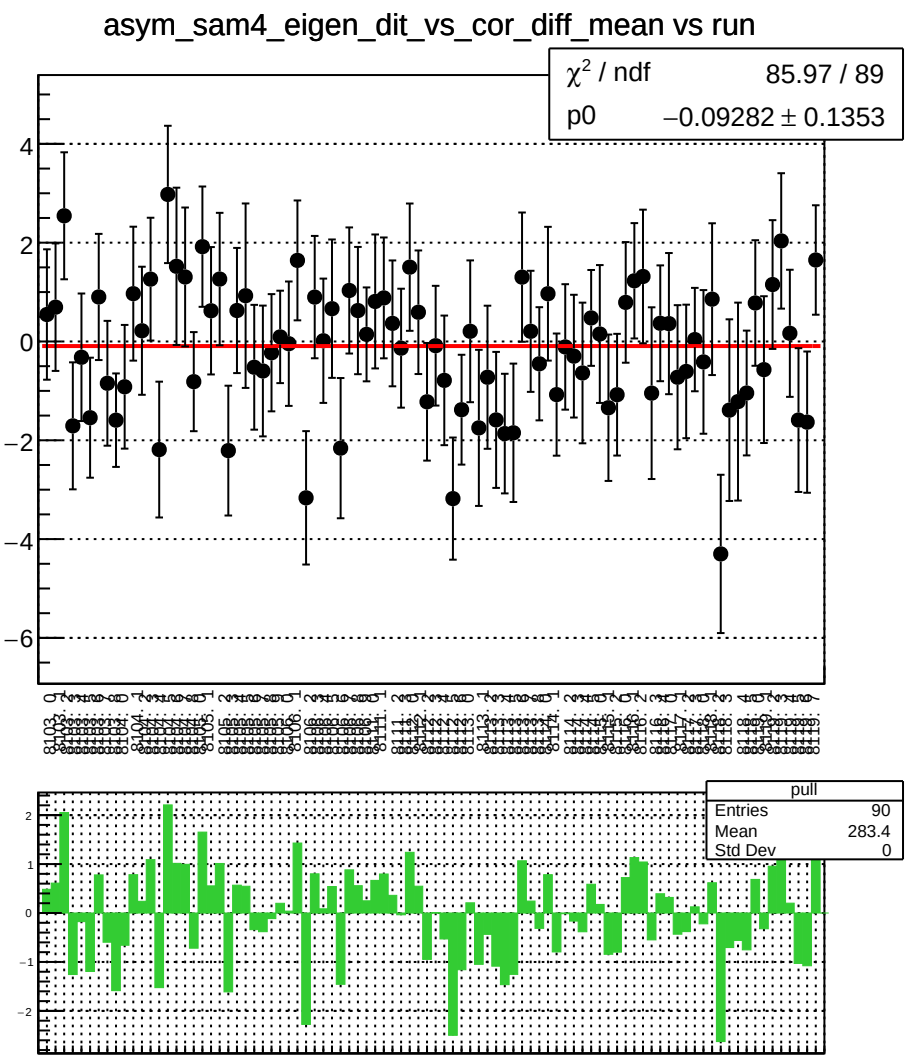

pull1D
Entries 90
Mean −0.01044
Std Dev 0.9773

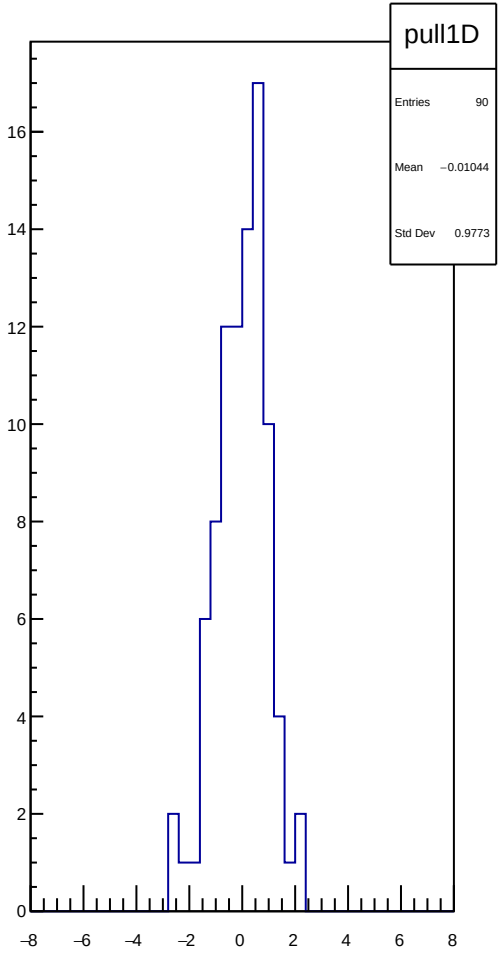

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.48e+04 / 89
p0 126.3 ± 0.09567
190
180
170
160
150
140
130
120
110

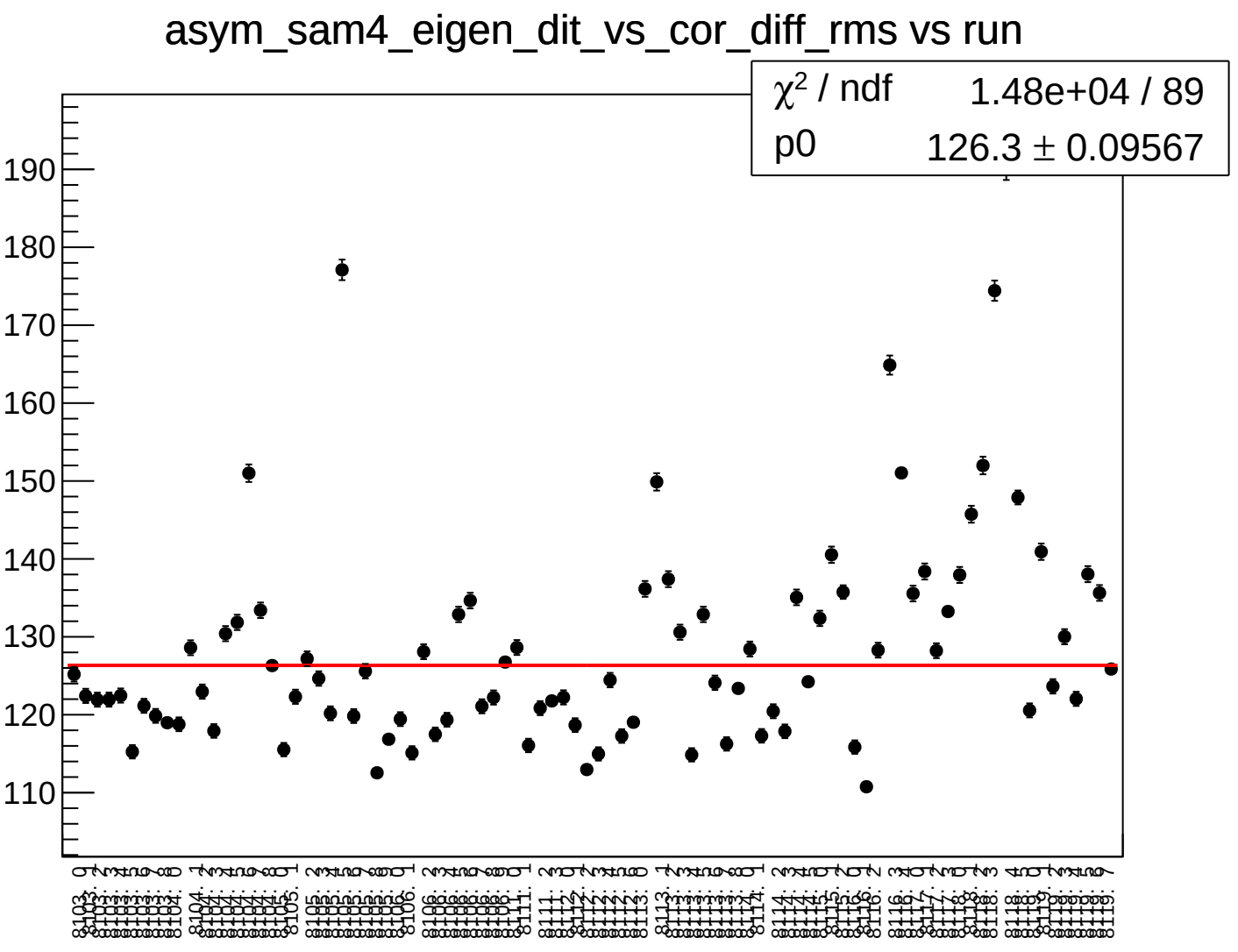

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 122.9 / 89
p0 1.309e−05 ± 5.541e−06
pull
Entries 90
Mean −1544
Std Dev 0

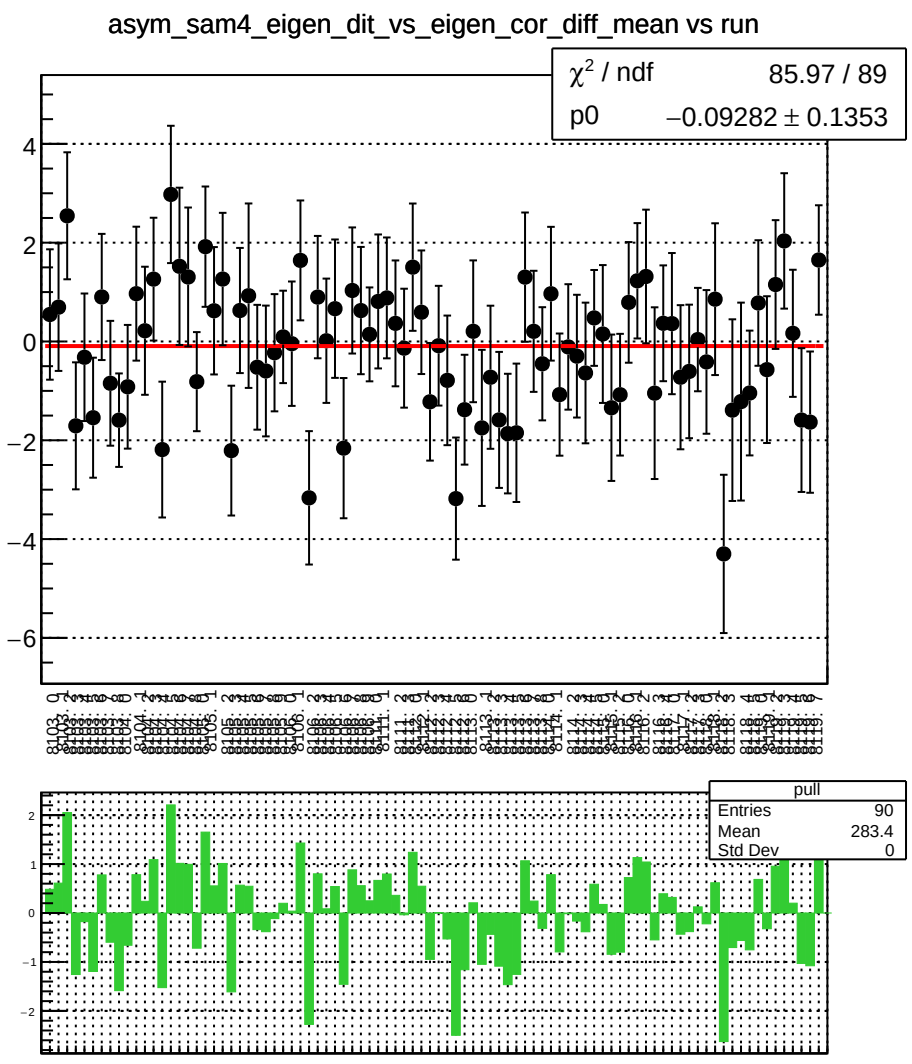

pull1D
Entries 90
Mean 0.005039
Std Dev 1.169

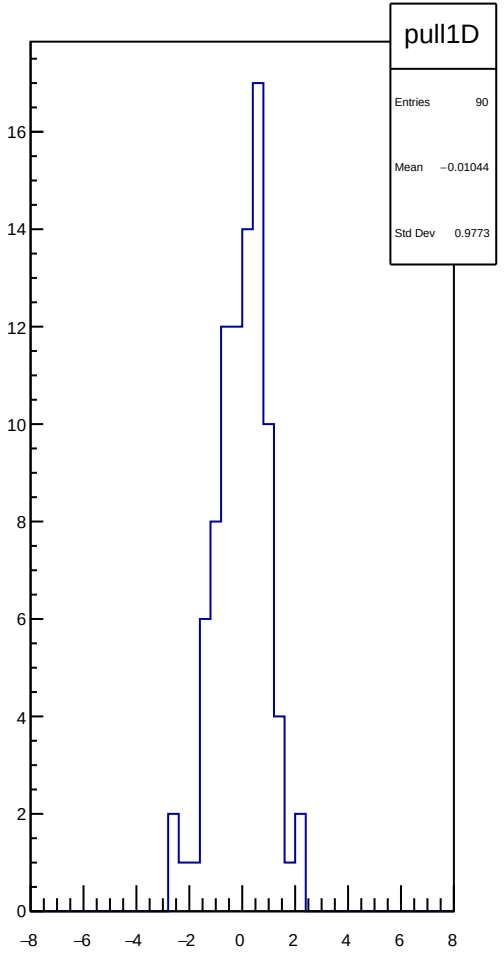

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1642 / 89
p0 0.005194 ± 3.918e−06
0.0057
0.0056
0.0055
0.0054
0.0053
0.0052
0.0051
0.005
0.0049
0.0048

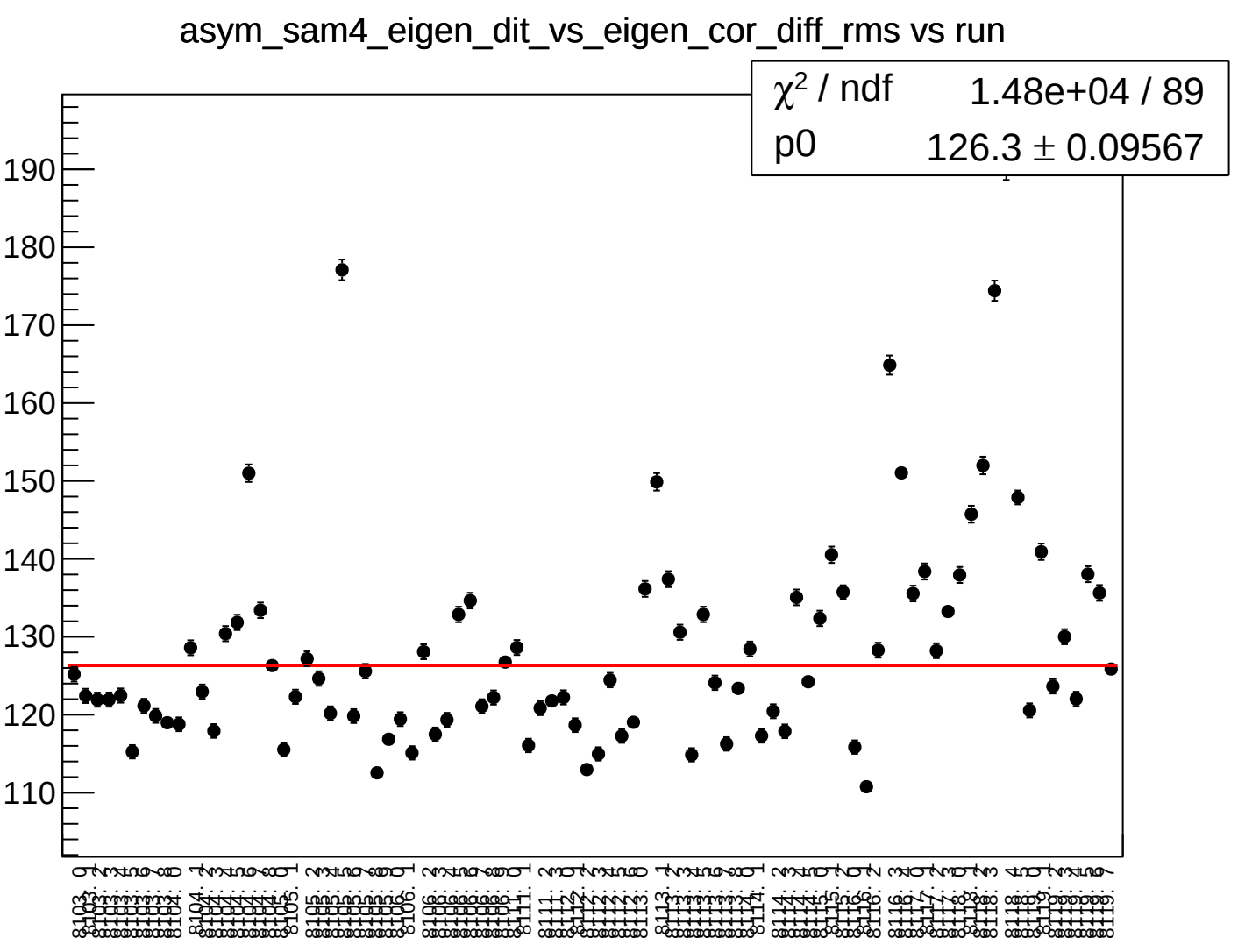

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.97 / 89
p0 −0.09282 ± 0.1353
pull
Entries 90
Mean 283.4
Std Dev 0

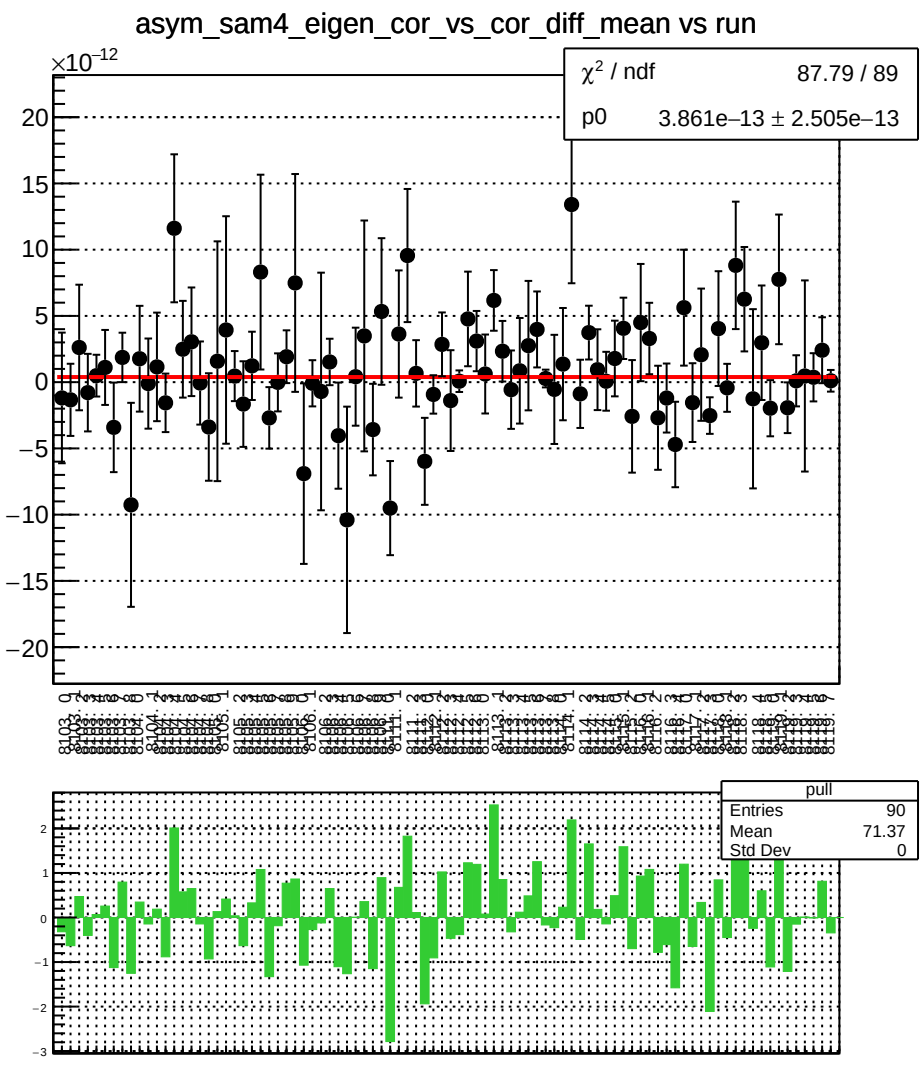

pull1D
Entries 90
Mean −0.01044
Std Dev 0.9773

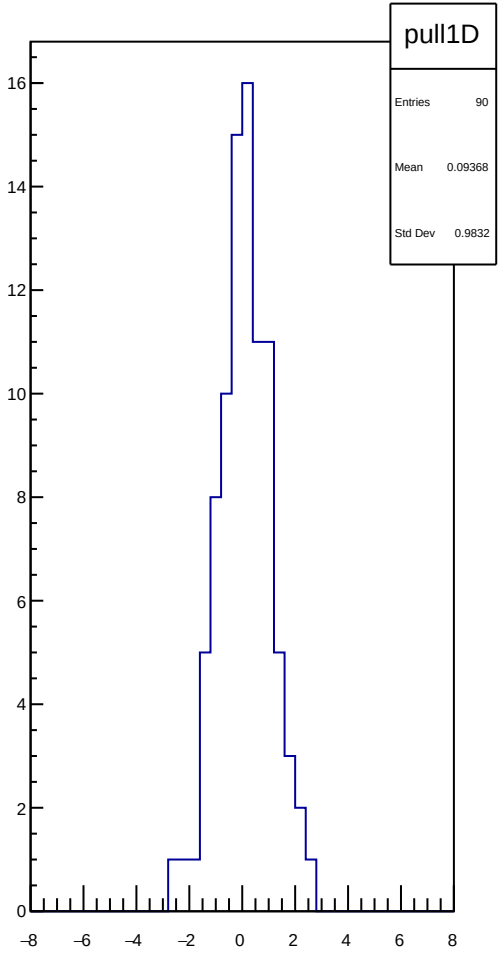

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.48e+04 / 89
p0 126.3 ± 0.09567
190
180
170
160
150
140
130
120
110

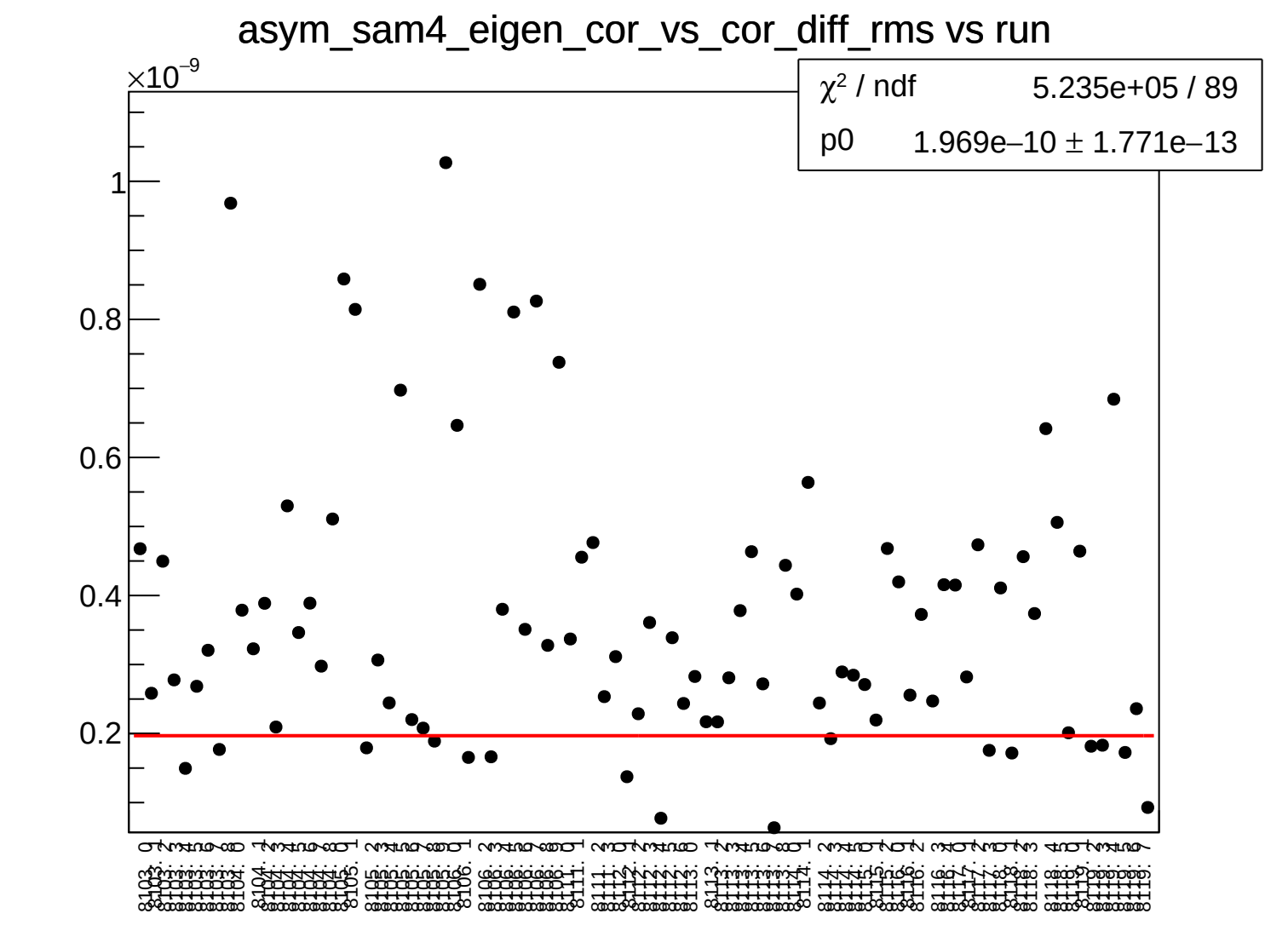

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.97 / 89
p0 −0.09282 ± 0.1353
pull
Entries 90
Mean 283.4
Std Dev 0

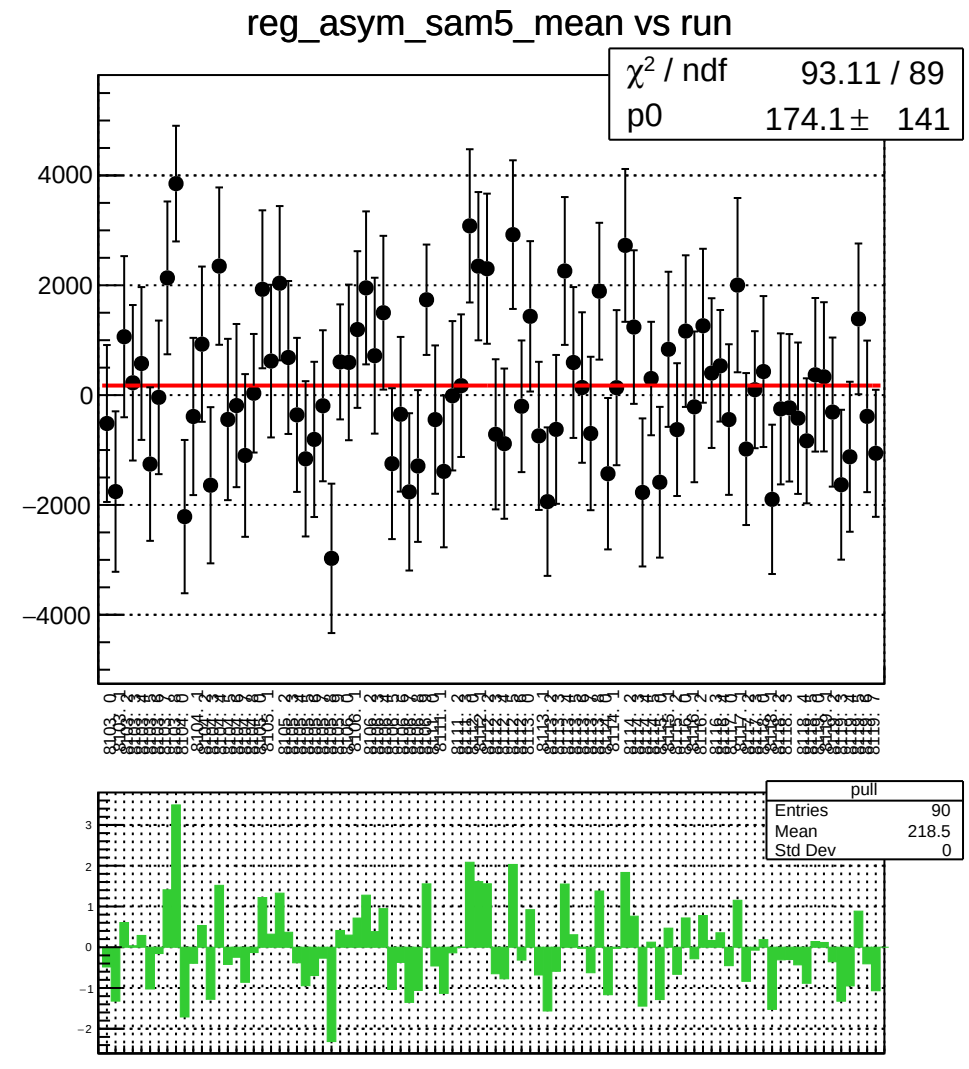

pull1D
Entries 90
Mean −0.01044
Std Dev 0.9773

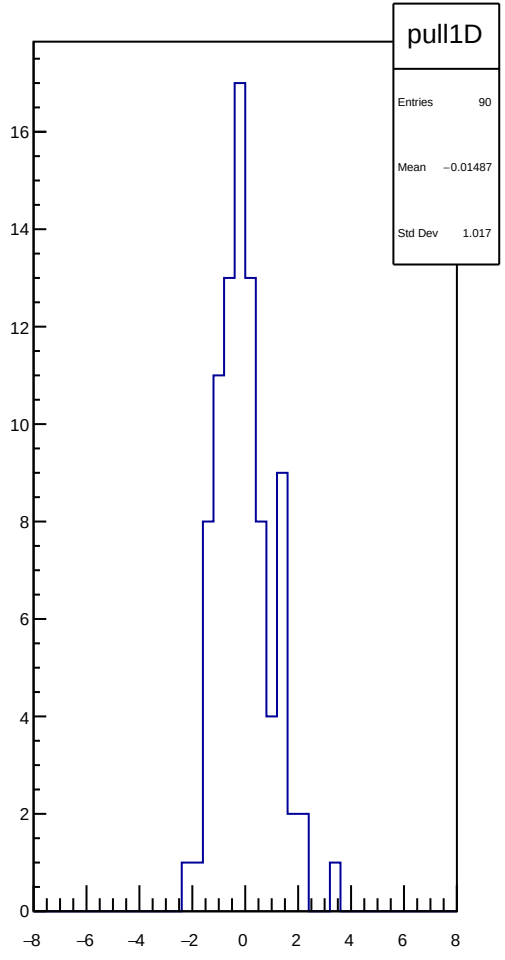

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.48e+04 / 89
p0 126.3 ± 0.09567
190
180
170
160
150
140
130
120
110

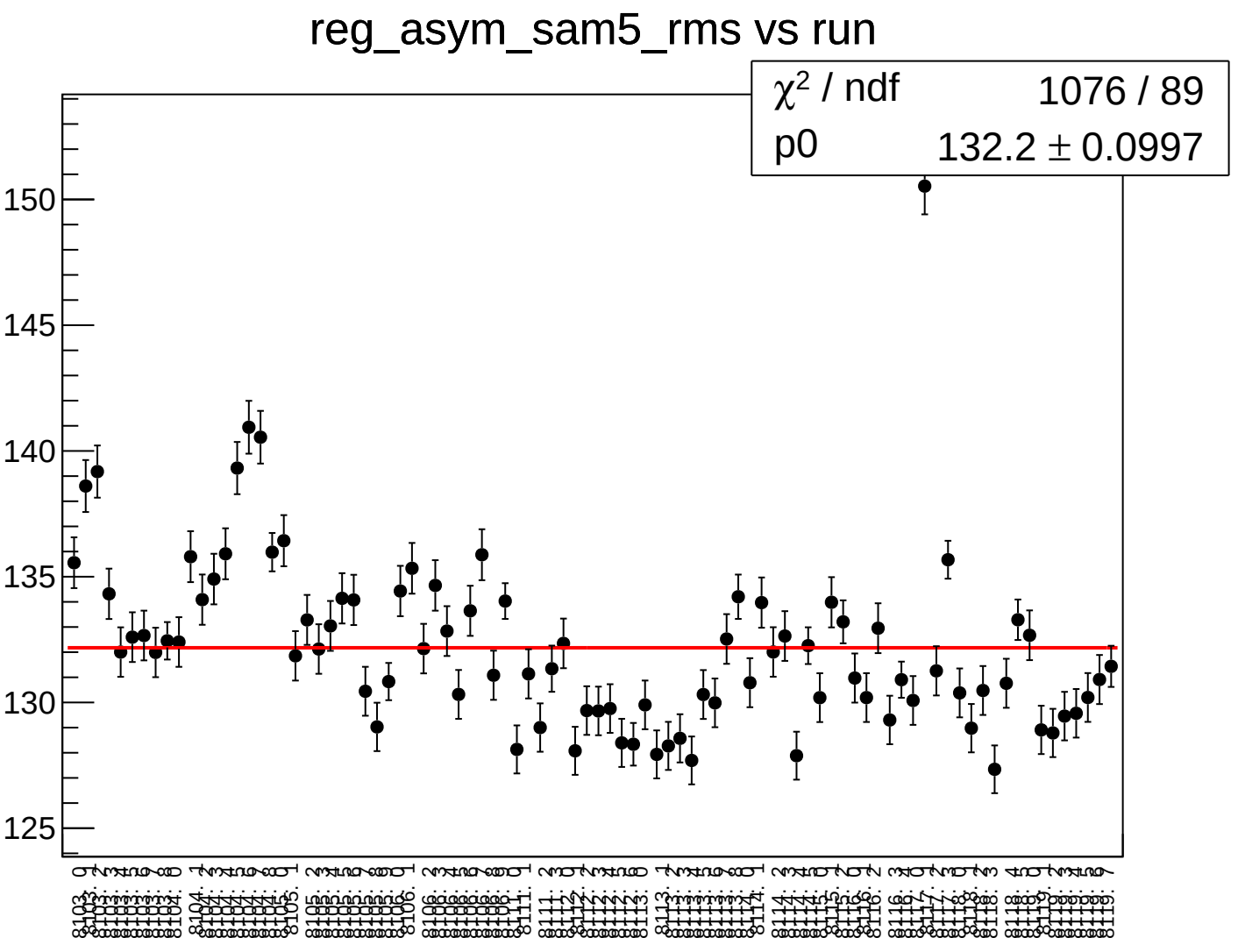

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.79 / 89
p0 3.861e−13 ± 2.505e−13
pull
Entries 90
Mean 71.37
Std Dev 0

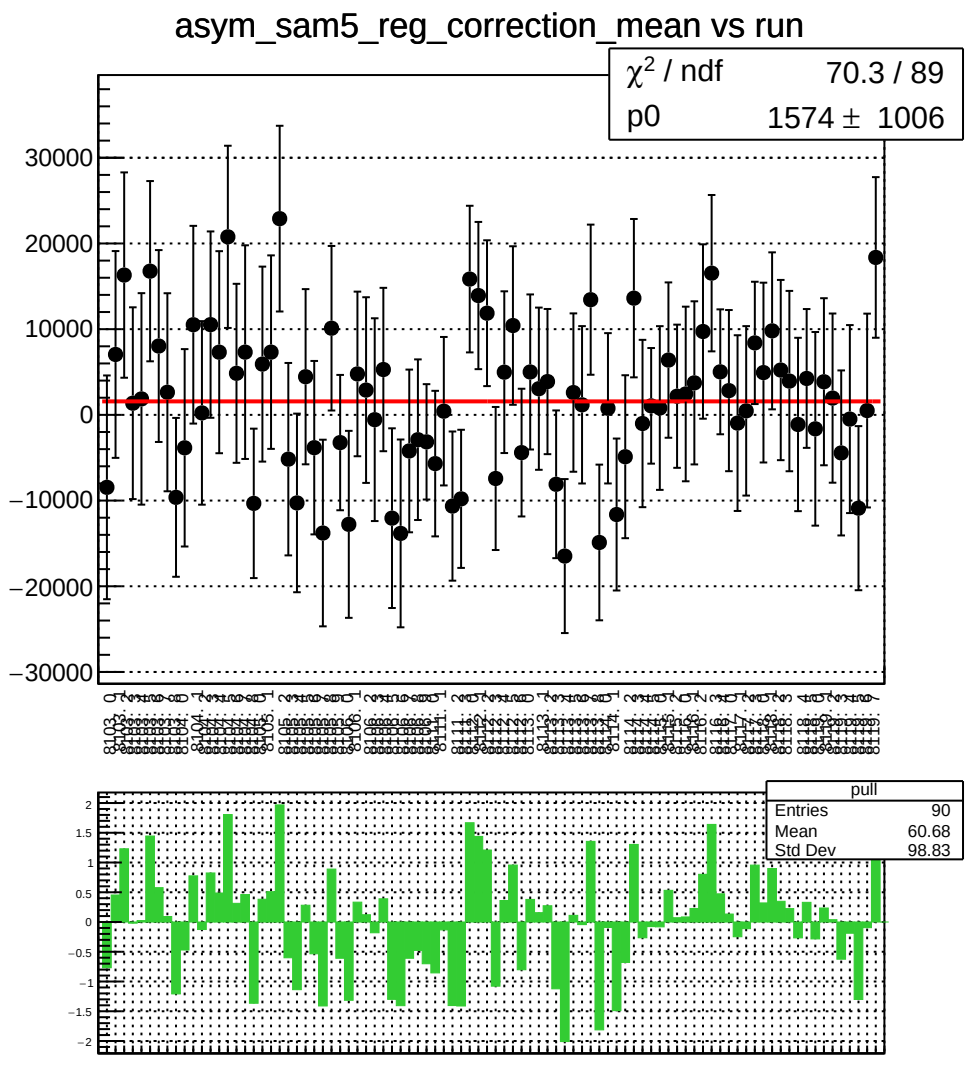

pull1D
Entries 90
Mean 0.09368
Std Dev 0.9832

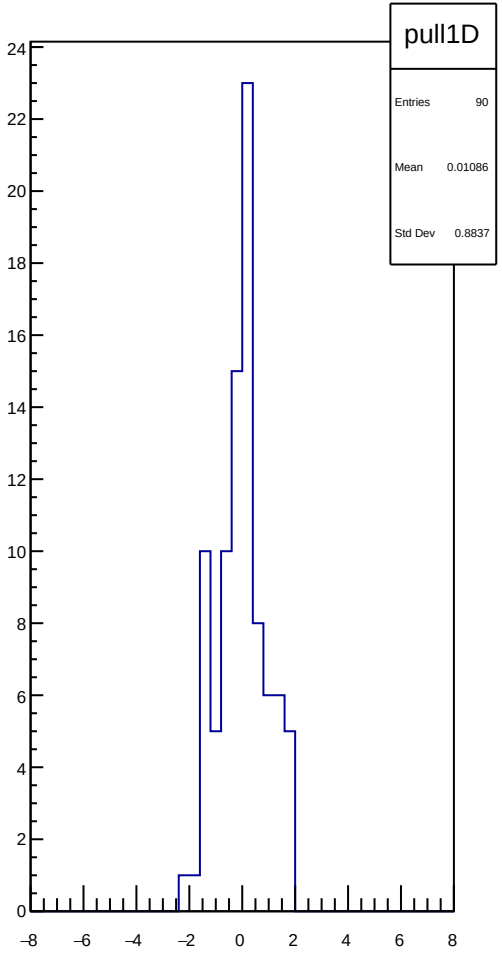

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.235e+05 / 89
p0 1.969e−10 ± 1.771e−13
1
0.8
0.6
0.4
0.2

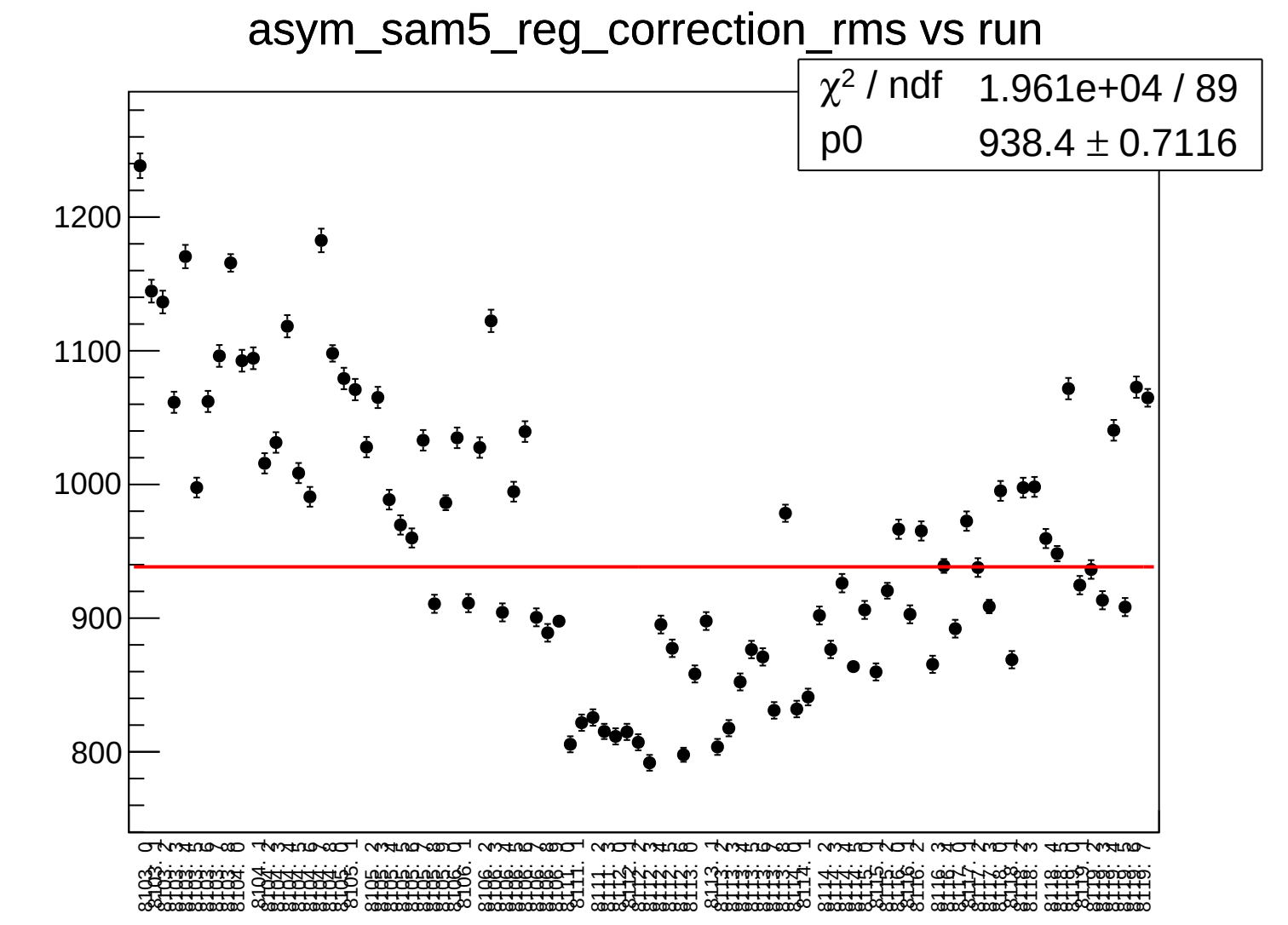

reg_asym_sam5_mean vs run
χ² / ndf 93.11 / 89
p0 174.1 ± 141
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 218.5
Std Dev 0
3
2
1
0
−1
−2

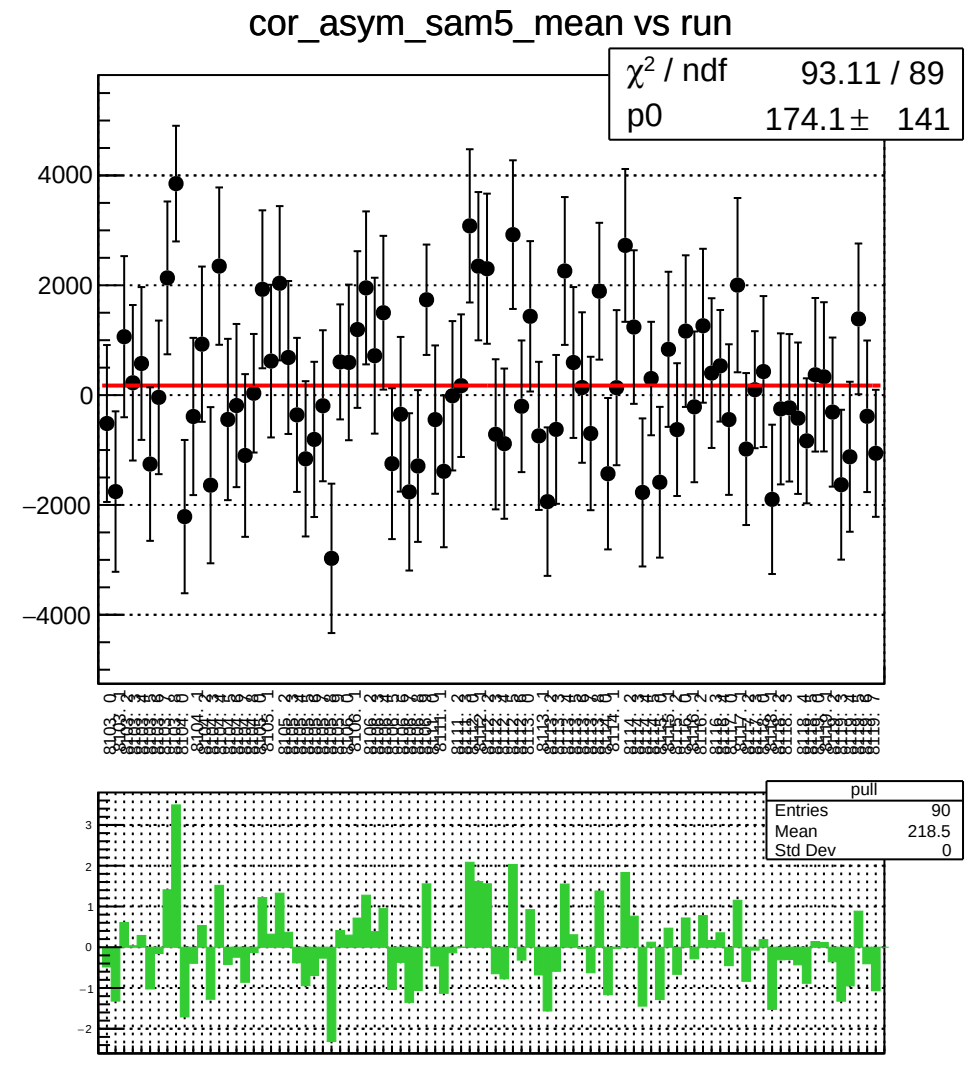

pull1D
Entries 90
Mean −0.01487
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

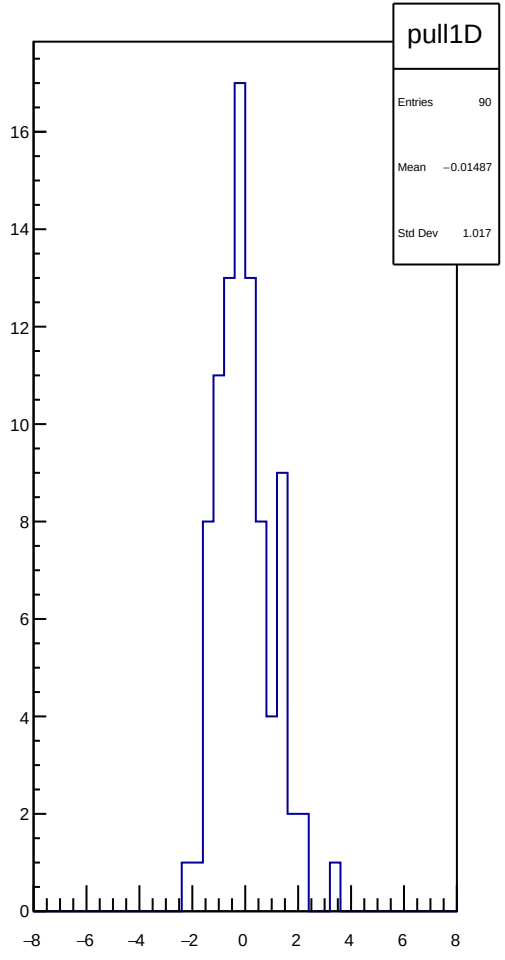

reg_asym_sam5_rms vs run
χ² / ndf 1076 / 89
p0 132.2 ± 0.0997
150
145
140
135
130
125

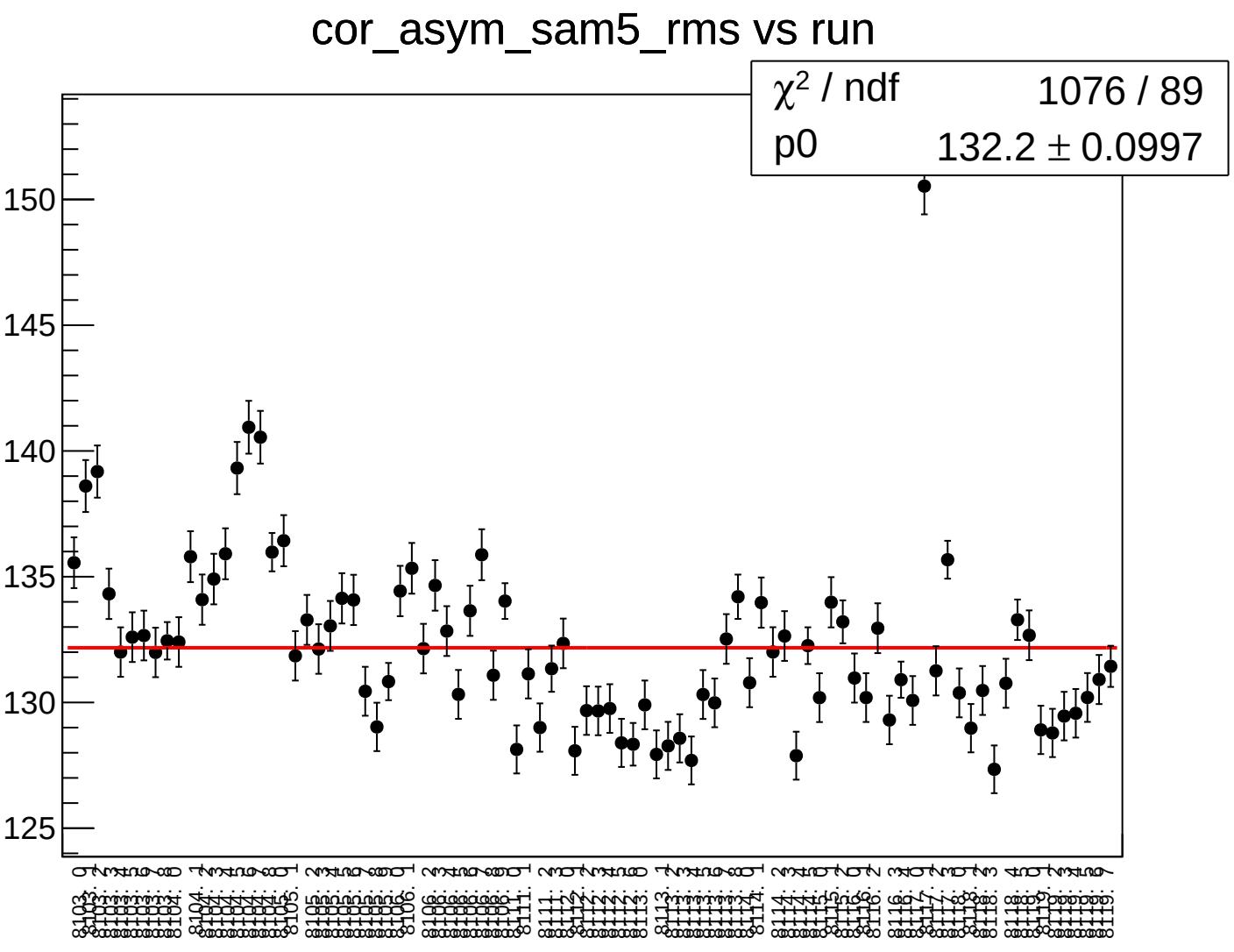

asym_sam5_reg_correction_mean vs run
χ² / ndf 70.3 / 89
p0 1574 ± 1006
pull
Entries 90
Mean 60.68
Std Dev 98.83

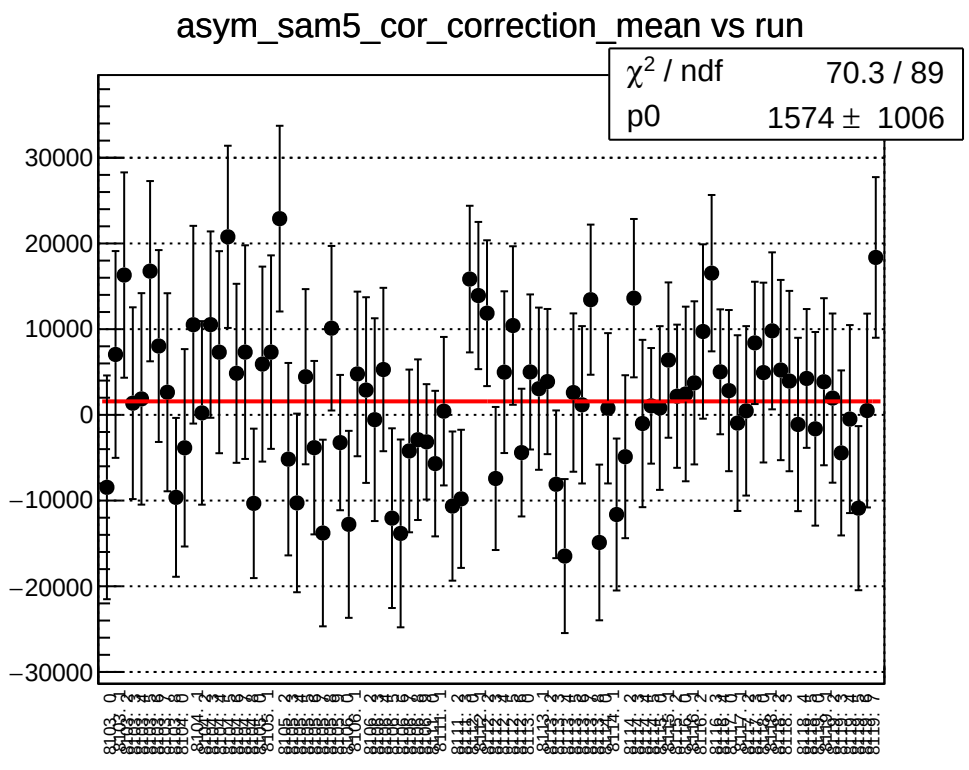

pull1D
Entries 90
Mean 0.01086
Std Dev 0.8837

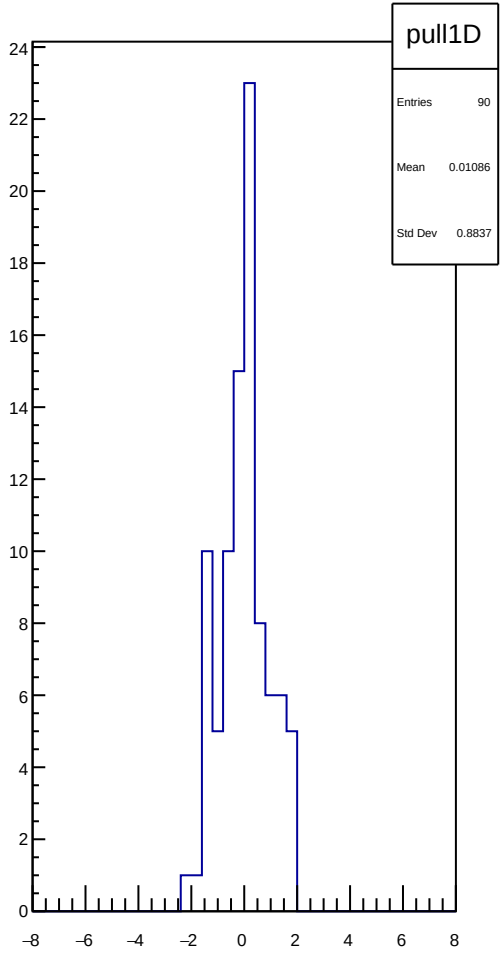

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.961e+04 / 89
p0 938.4 ± 0.7116
1200
1100
1000
900
800

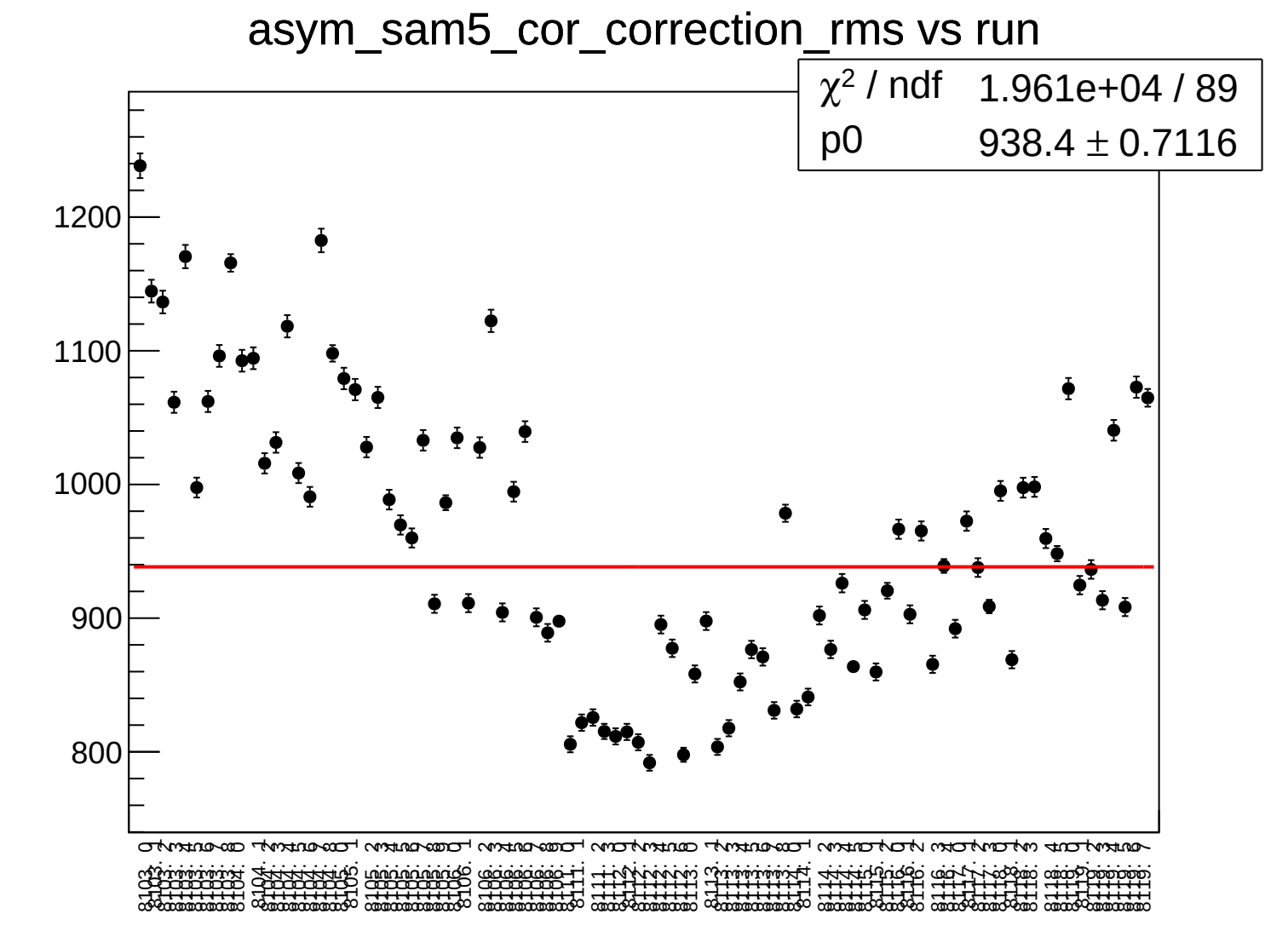

cor_asym_sam5_mean vs run
χ² / ndf 93.11 / 89
p0 174.1 ± 141
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 218.5
Std Dev 0
3
2
1
0
−1
−2

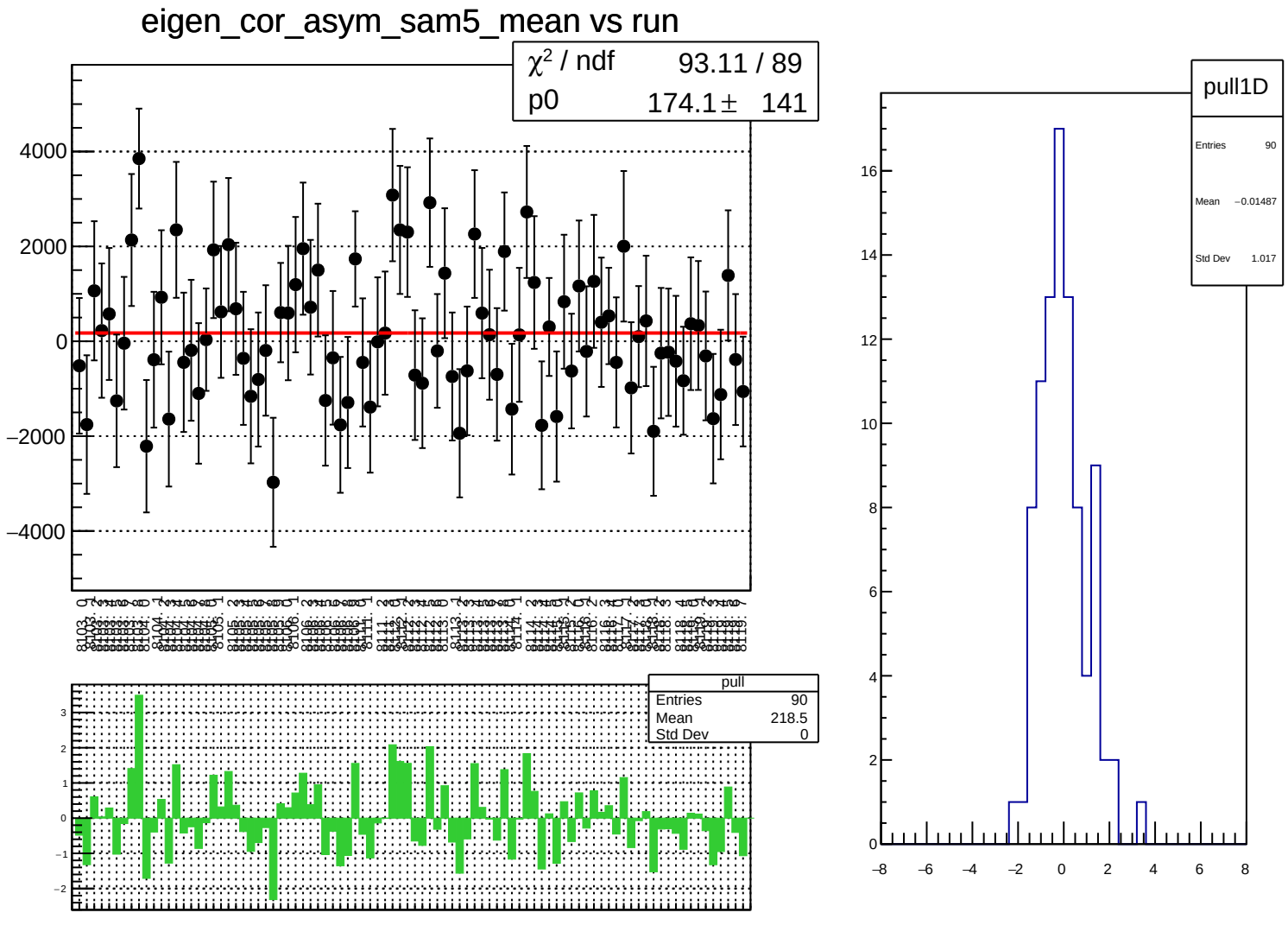

pull1D
Entries 90
Mean −0.01487
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

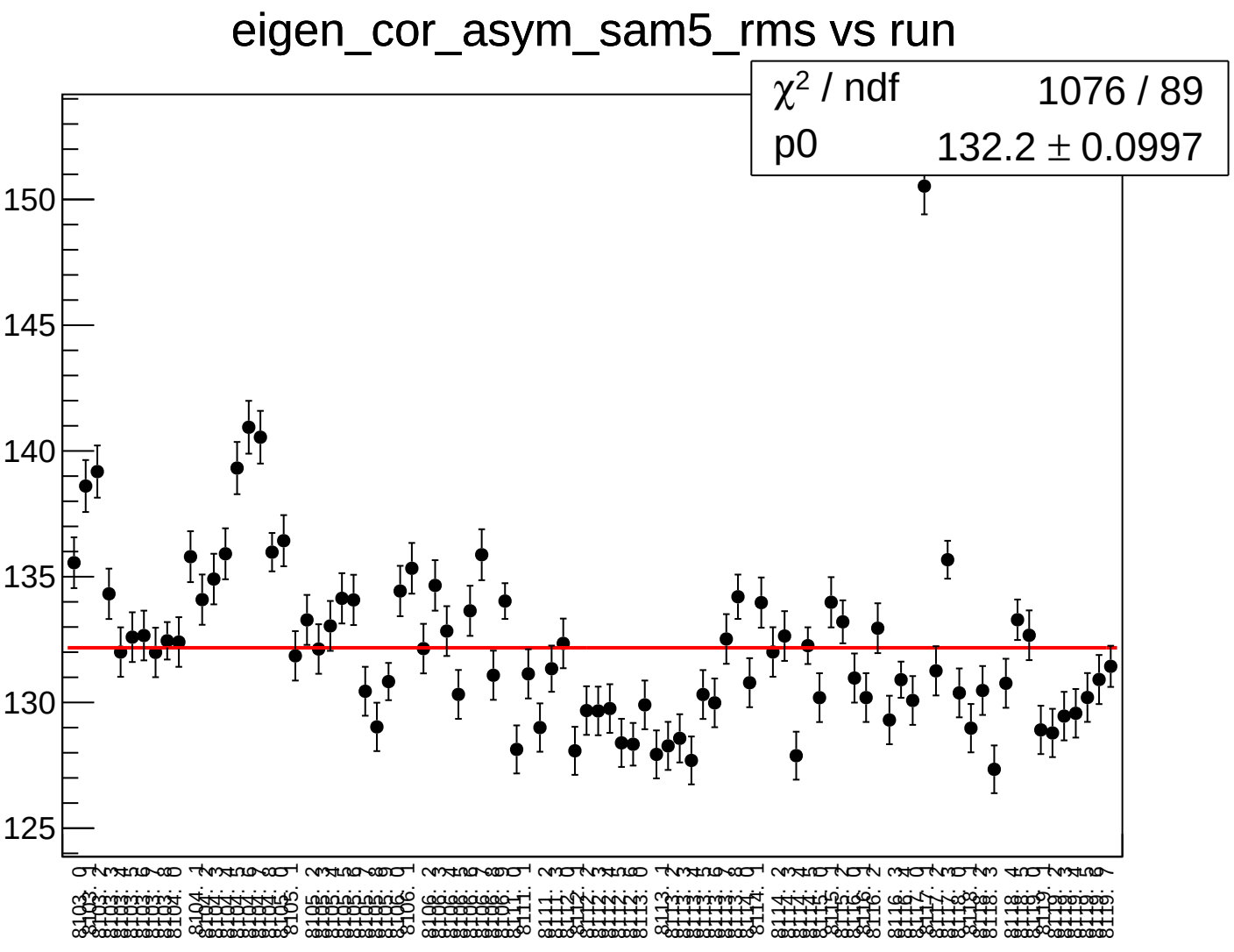

cor_asym_sam5_rms vs run
χ² / ndf 1076 / 89
p0 132.2 ± 0.0997
150
145
140
135
130
125

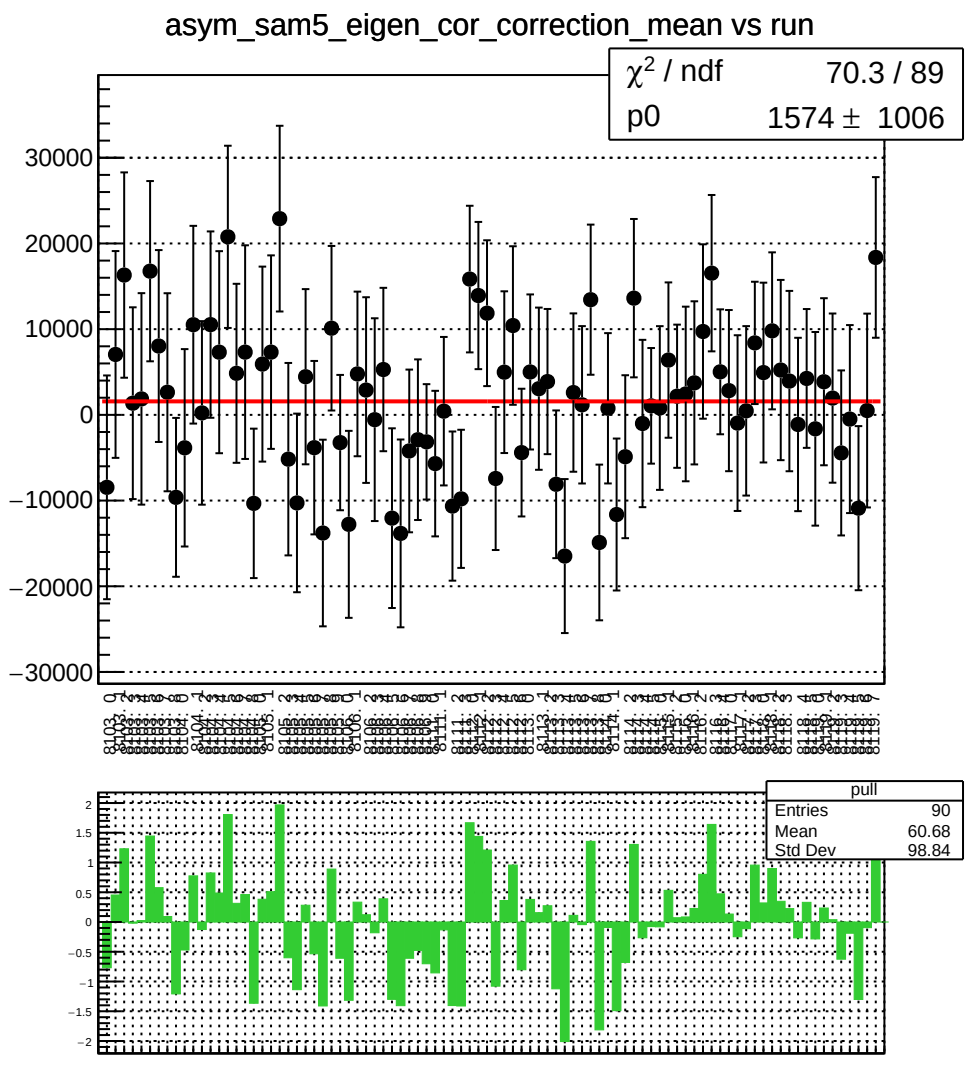

asym_sam5_cor_correction_mean vs run
χ² / ndf 70.3 / 89
p0 1574 ± 1006
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 60.68
Std Dev 98.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

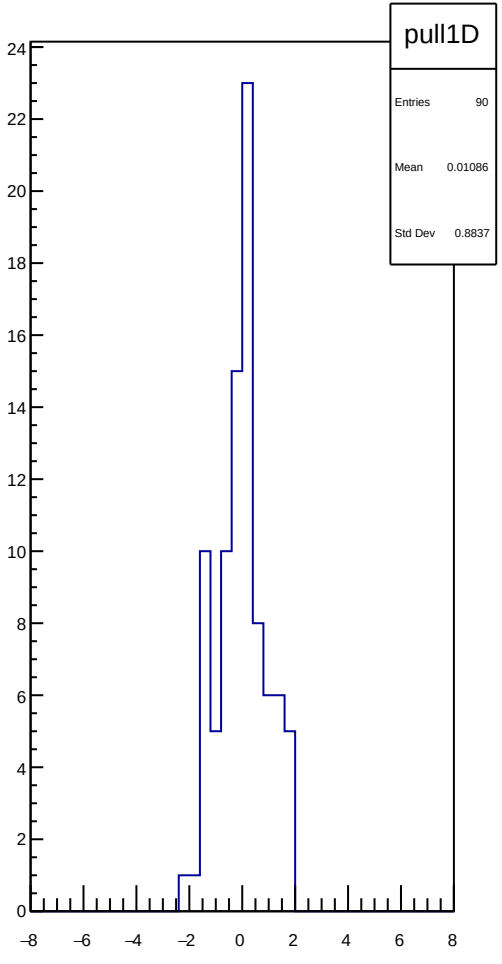

pull1D
Entries 90
Mean 0.01086
Std Dev 0.8837
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

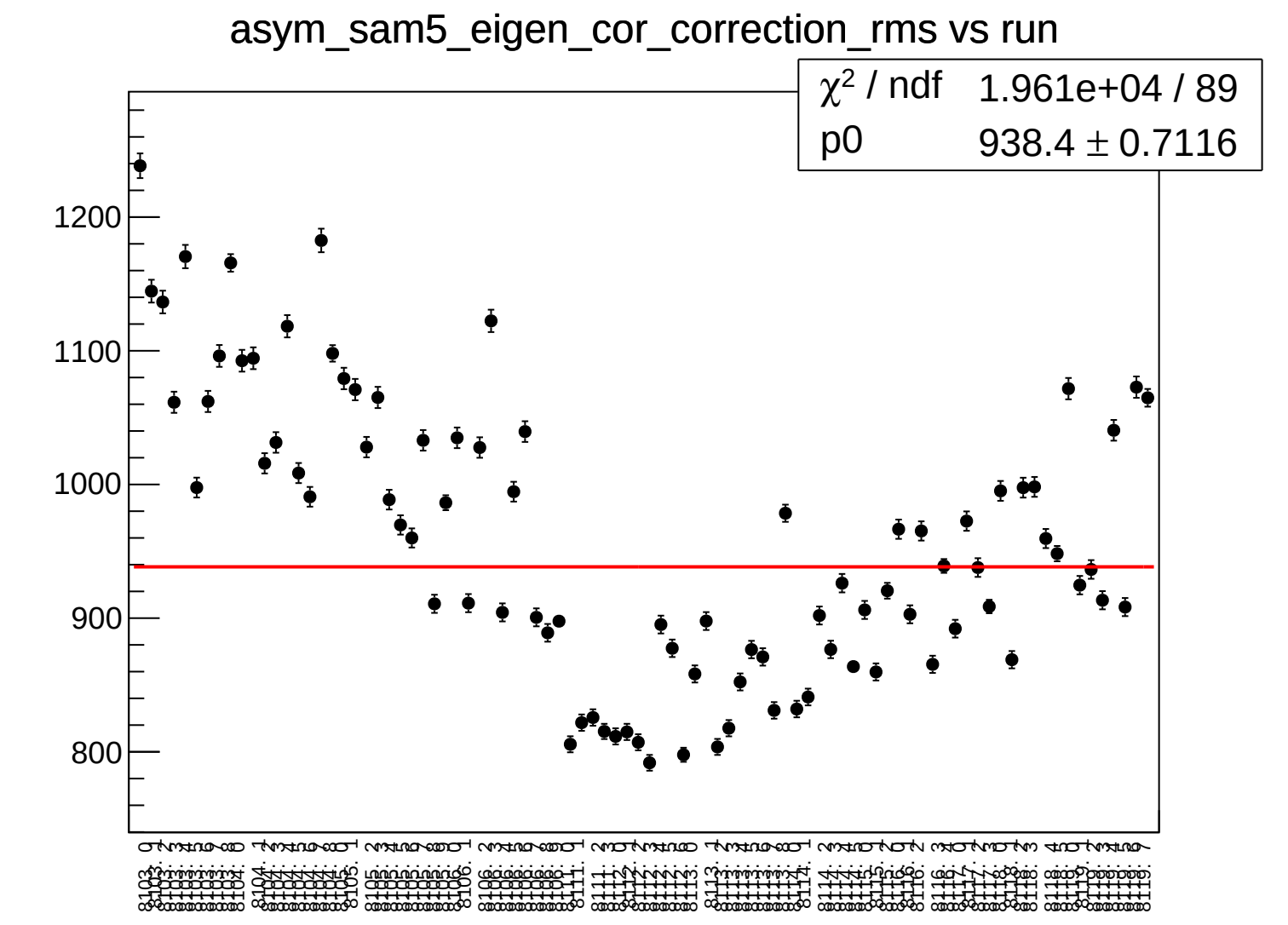

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.961e+04 / 89
p0 938.4 ± 0.7116
1200
1100
1000
900
800

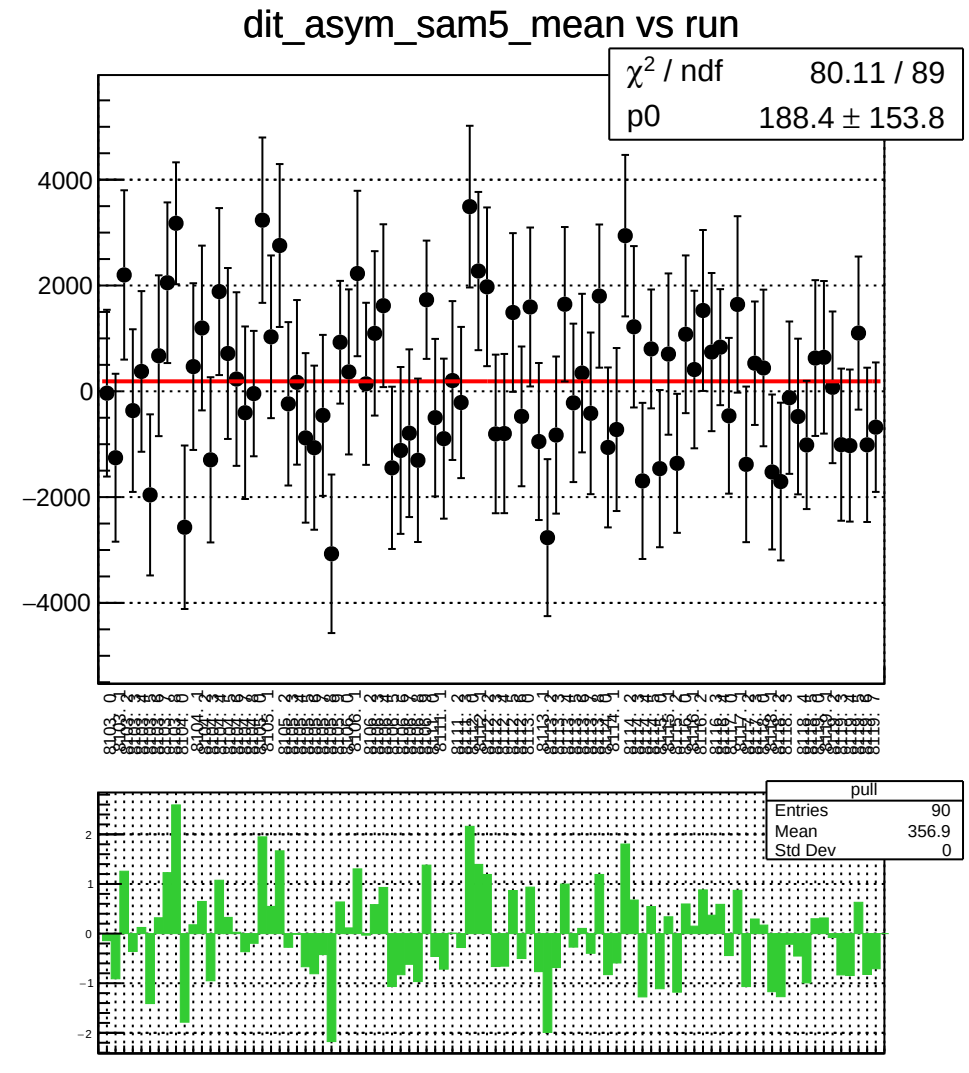

eigen_cor_asym_sam5_mean vs run
χ² / ndf 93.11 / 89
p0 174.1 ± 141
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 218.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.01487
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

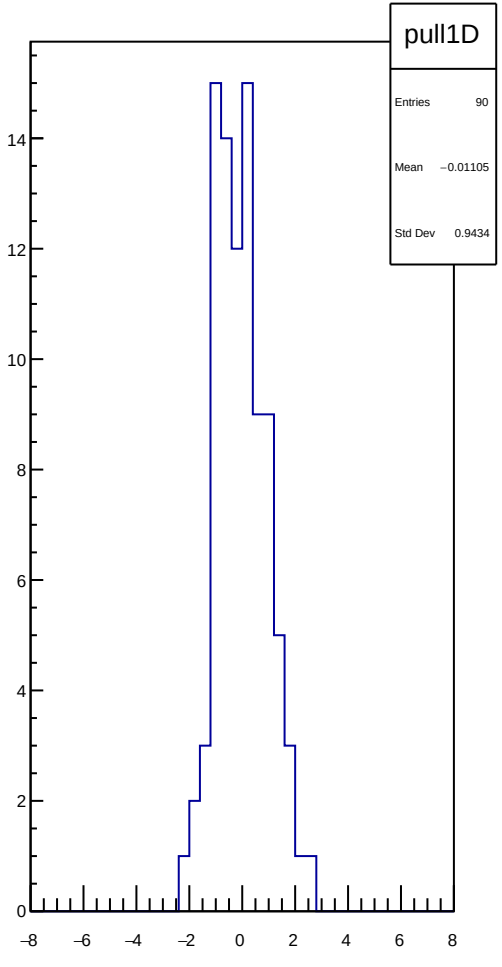

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1076 / 89
p0 132.2 ± 0.0997
150
145
140
135
130
125

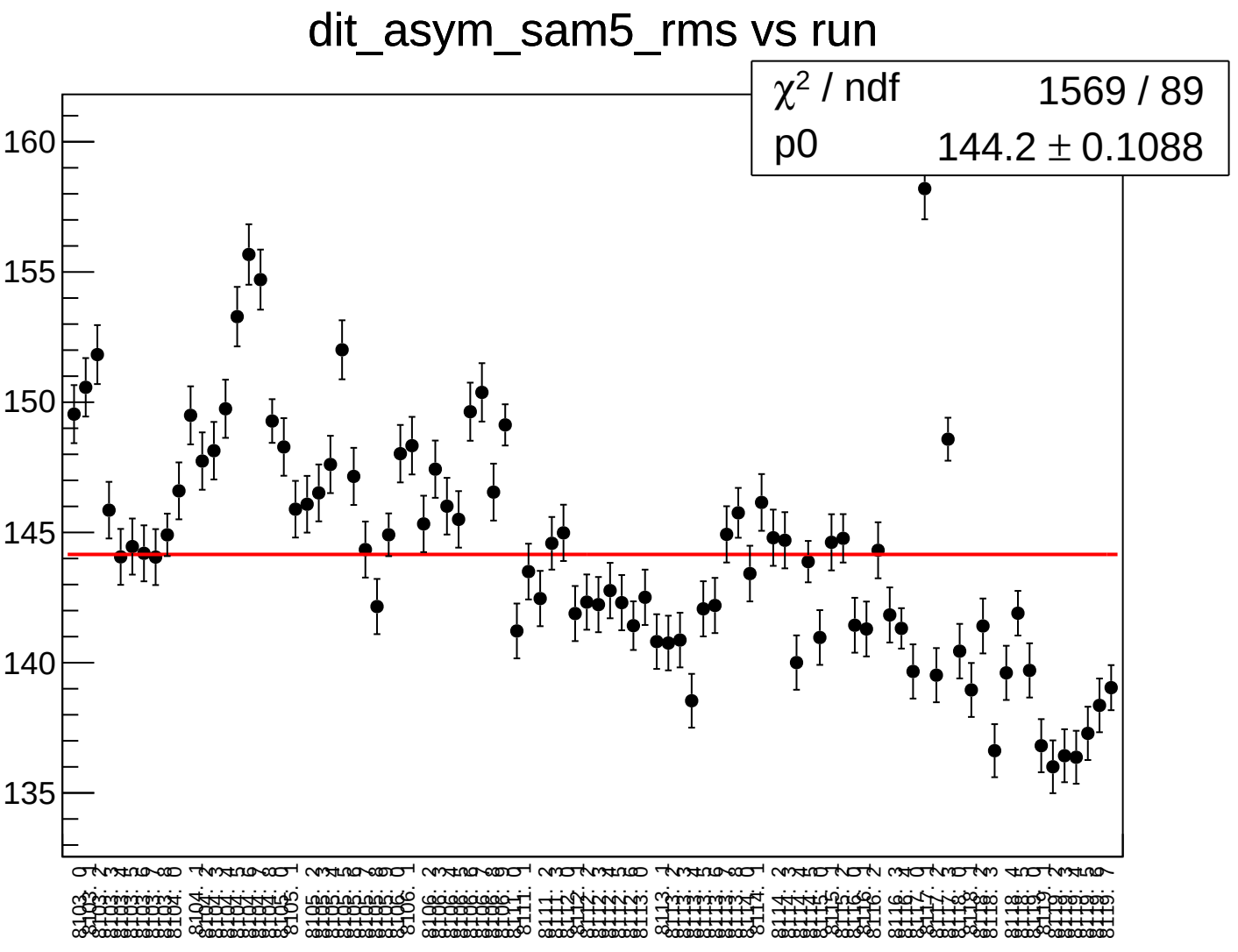

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 70.3 / 89
p0 1574 ± 1006
pull
Entries 90
Mean 60.68
Std Dev 98.84

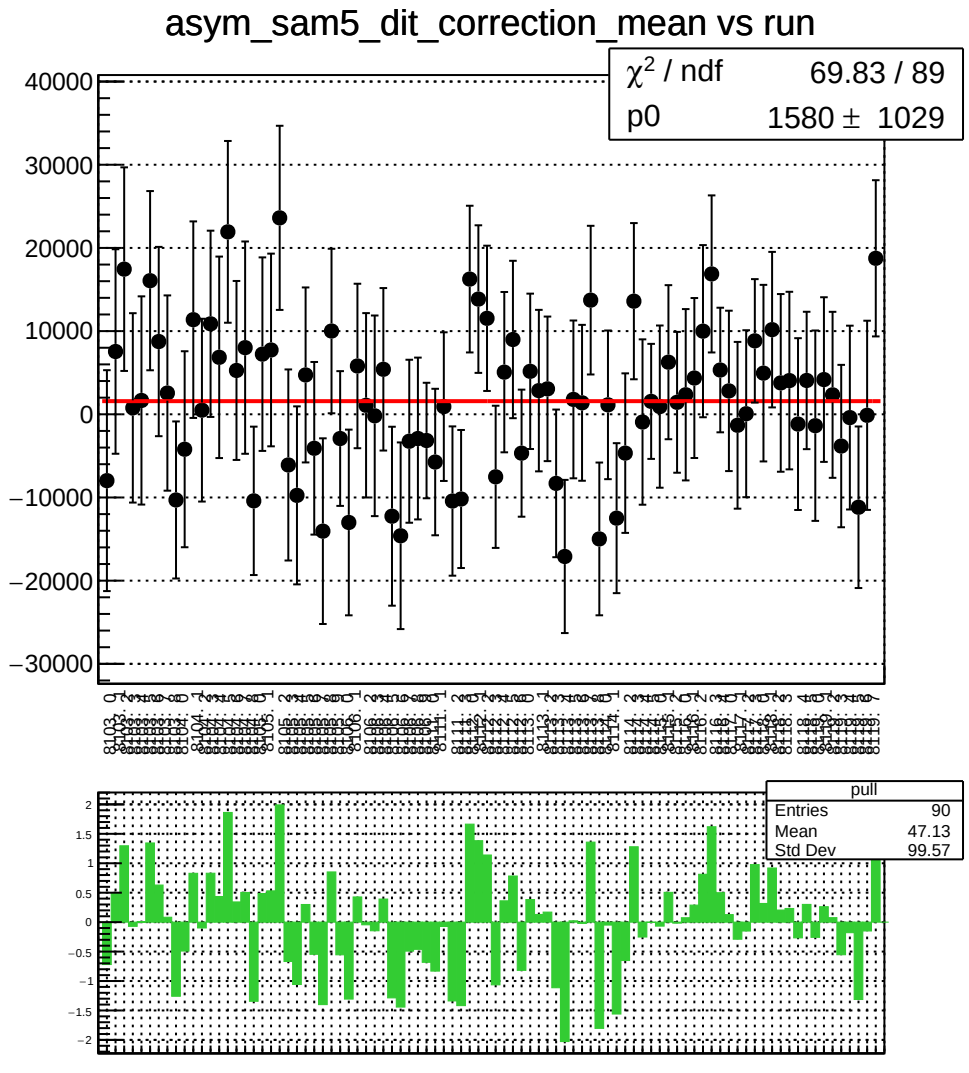

pull1D
Entries 90
Mean 0.01086
Std Dev 0.8837

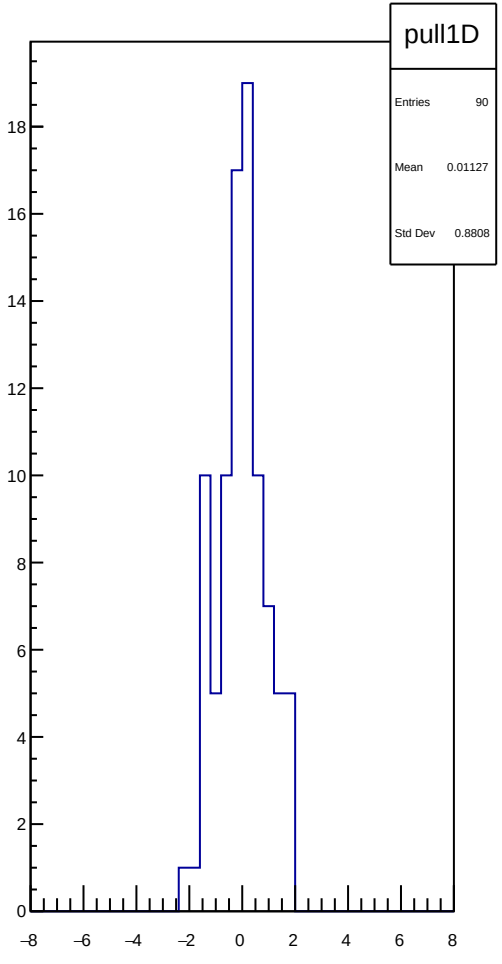

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.961e+04 / 89
p0 938.4 ± 0.7116
1200
1100
1000
900
800

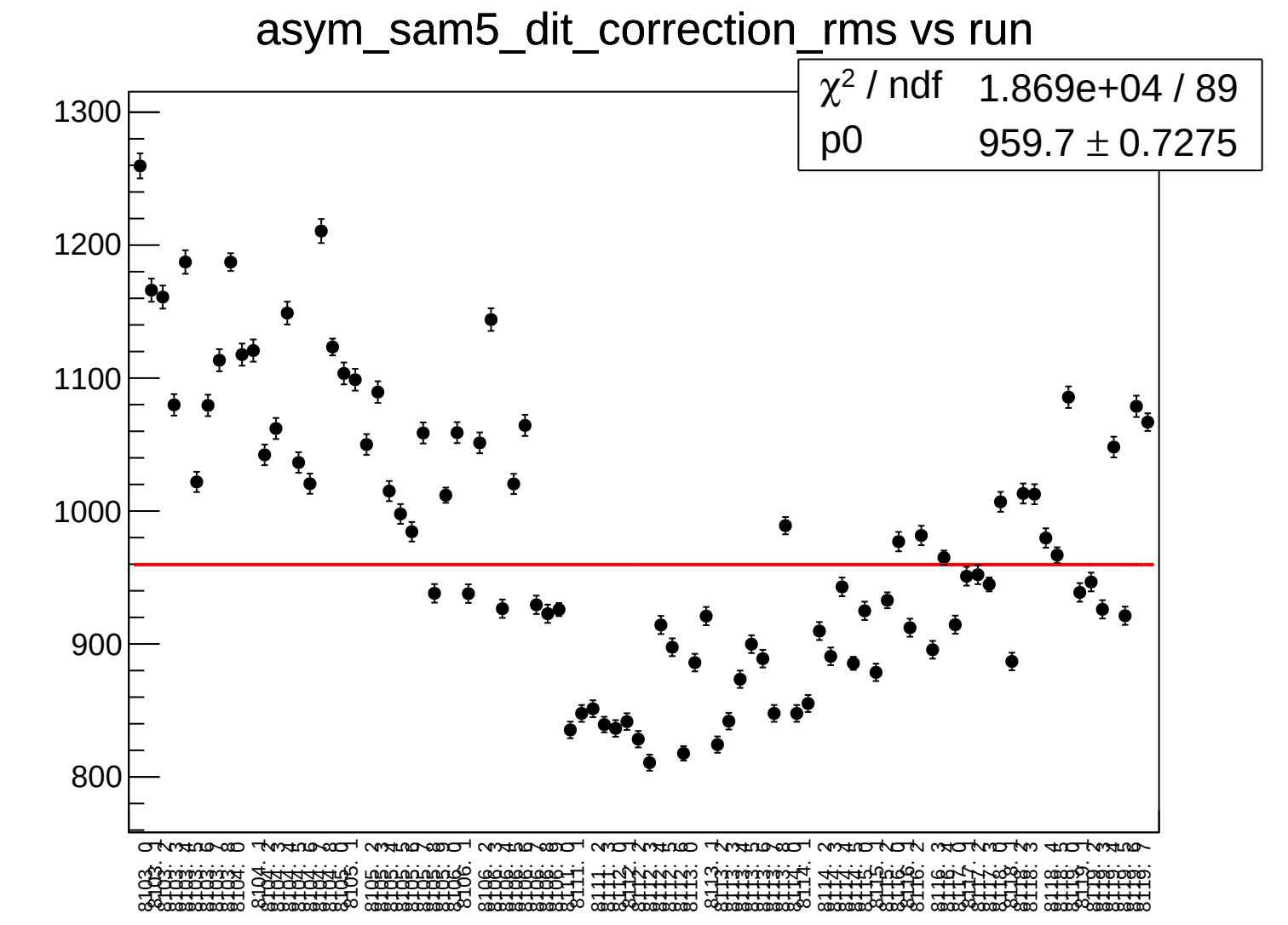

dit_asym_sam5_mean vs run
χ² / ndf 80.11 / 89
p0 188.4 ± 153.8
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 356.9
Std Dev 0
2
1
0
−1
−2

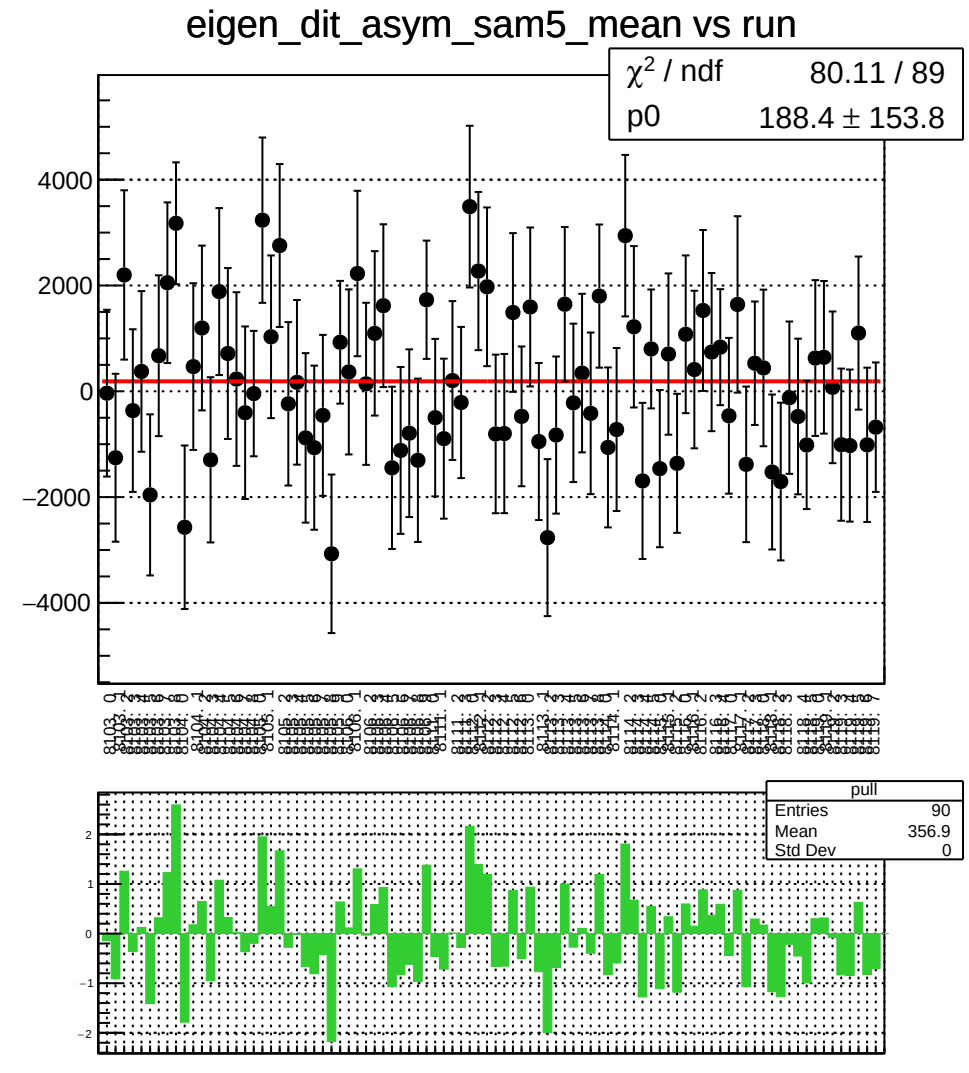

pull1D
Entries 90
Mean −0.01105
Std Dev 0.9434
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

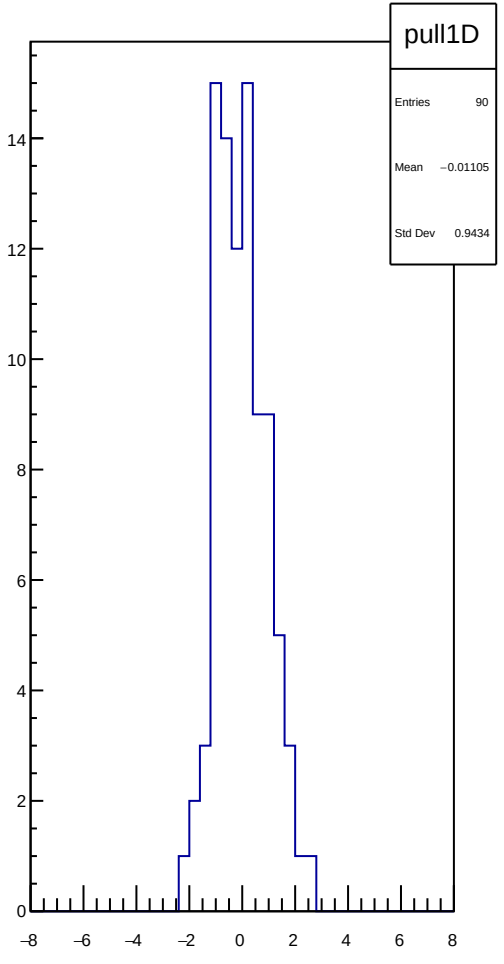

dit_asym_sam5_rms vs run
χ² / ndf 1569 / 89
p0 144.2 ± 0.1088
160
155
150
145
140
135

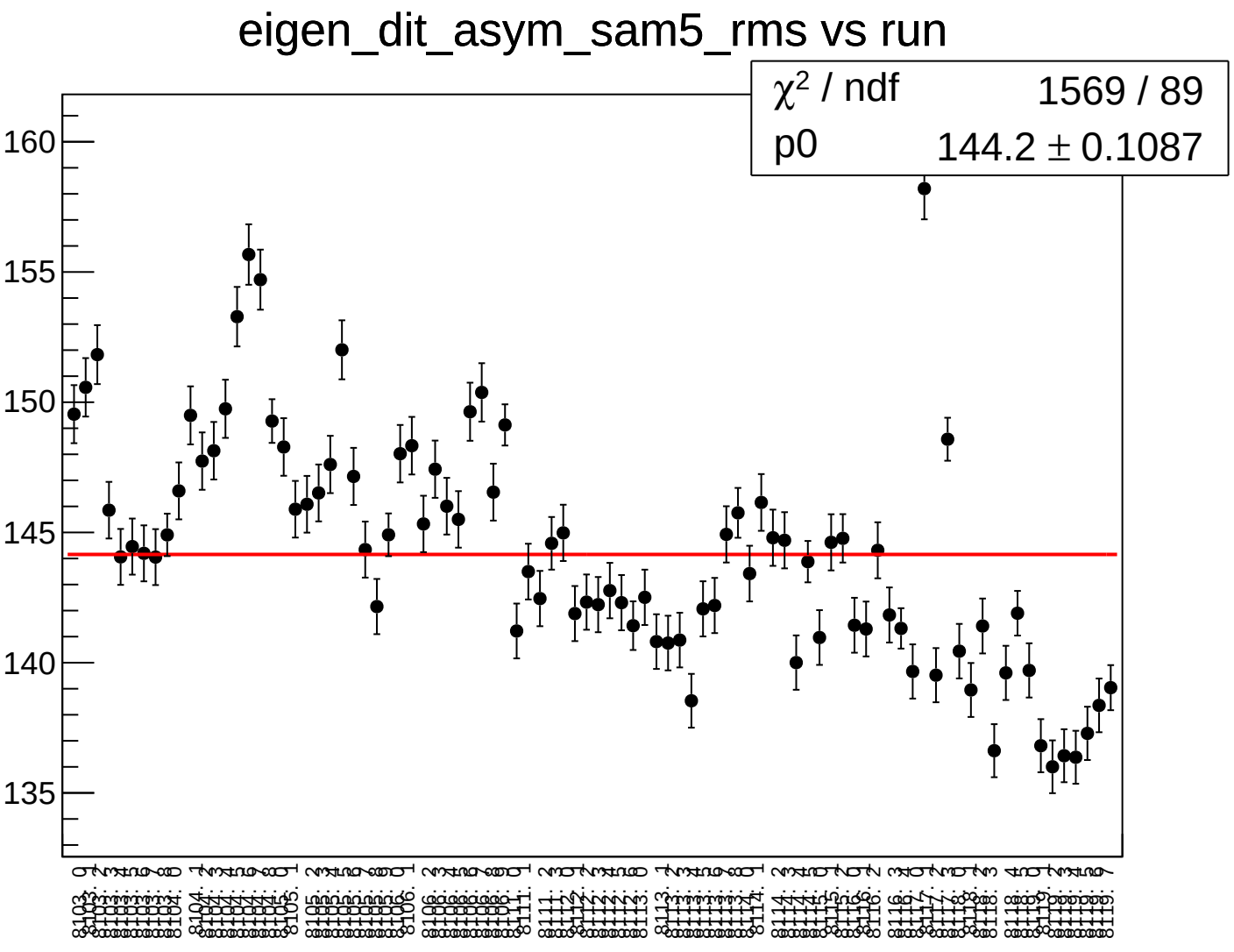

asym_sam5_dit_correction_mean vs run
χ^2 / ndf 69.83 / 89
p0 1580 ± 1029
pull
Entries 90
Mean 47.13
Std Dev 99.57

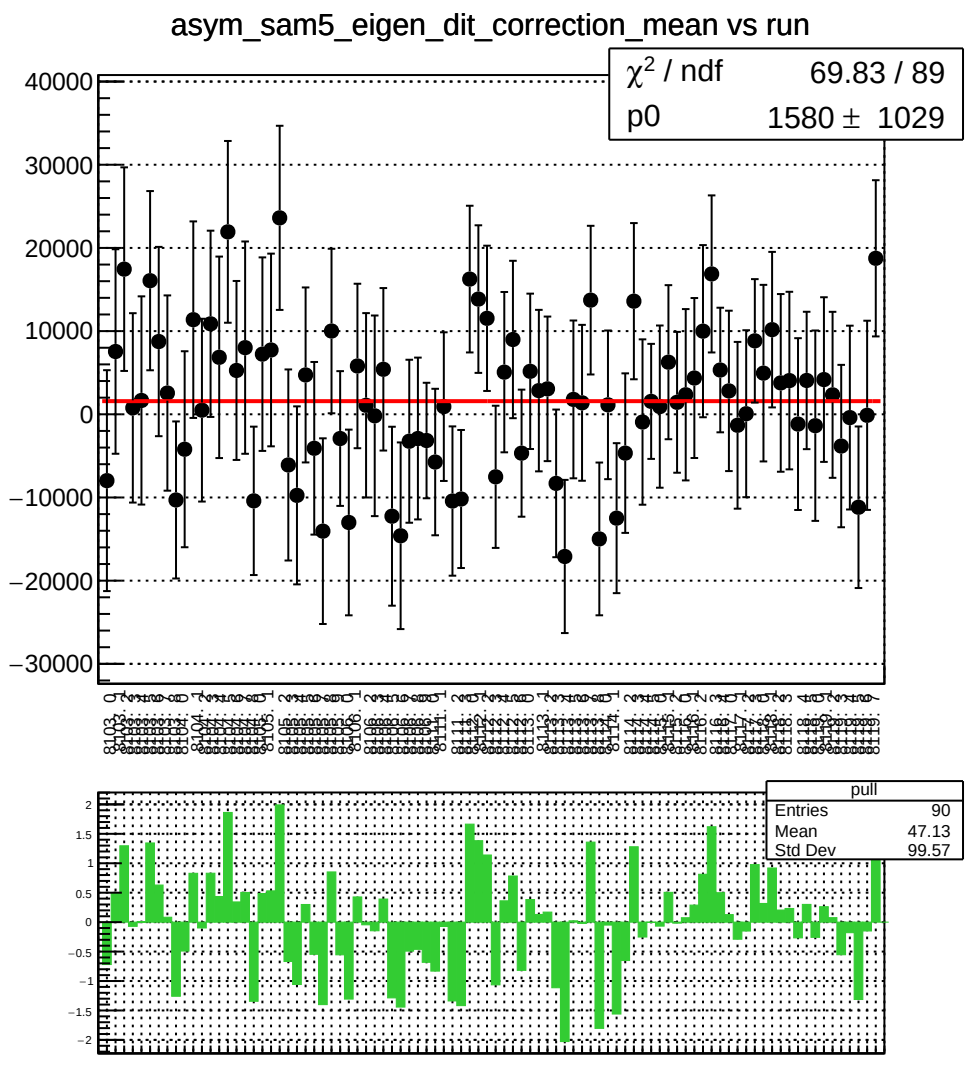

pull1D
Entries 90
Mean 0.01127
Std Dev 0.8808

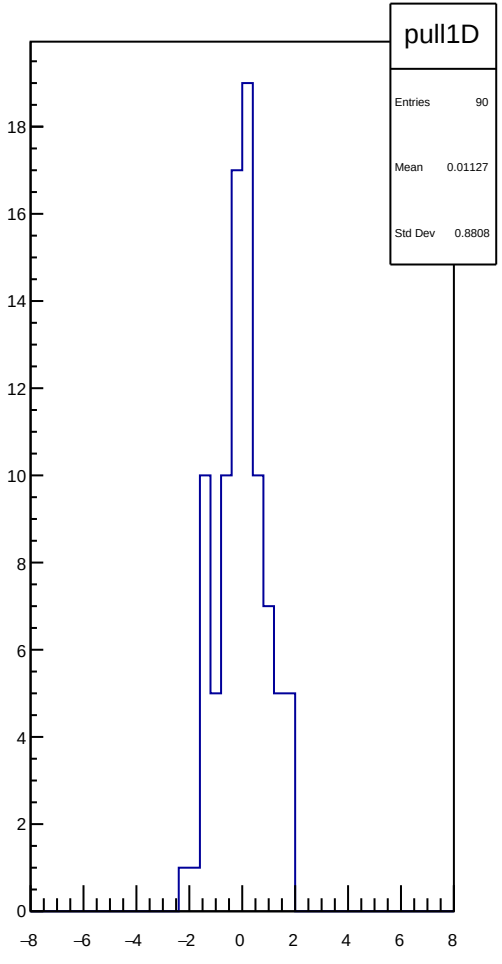

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.869e+04 / 89
p0 959.7 ± 0.7275
1300
1200
1100
1000
900
800

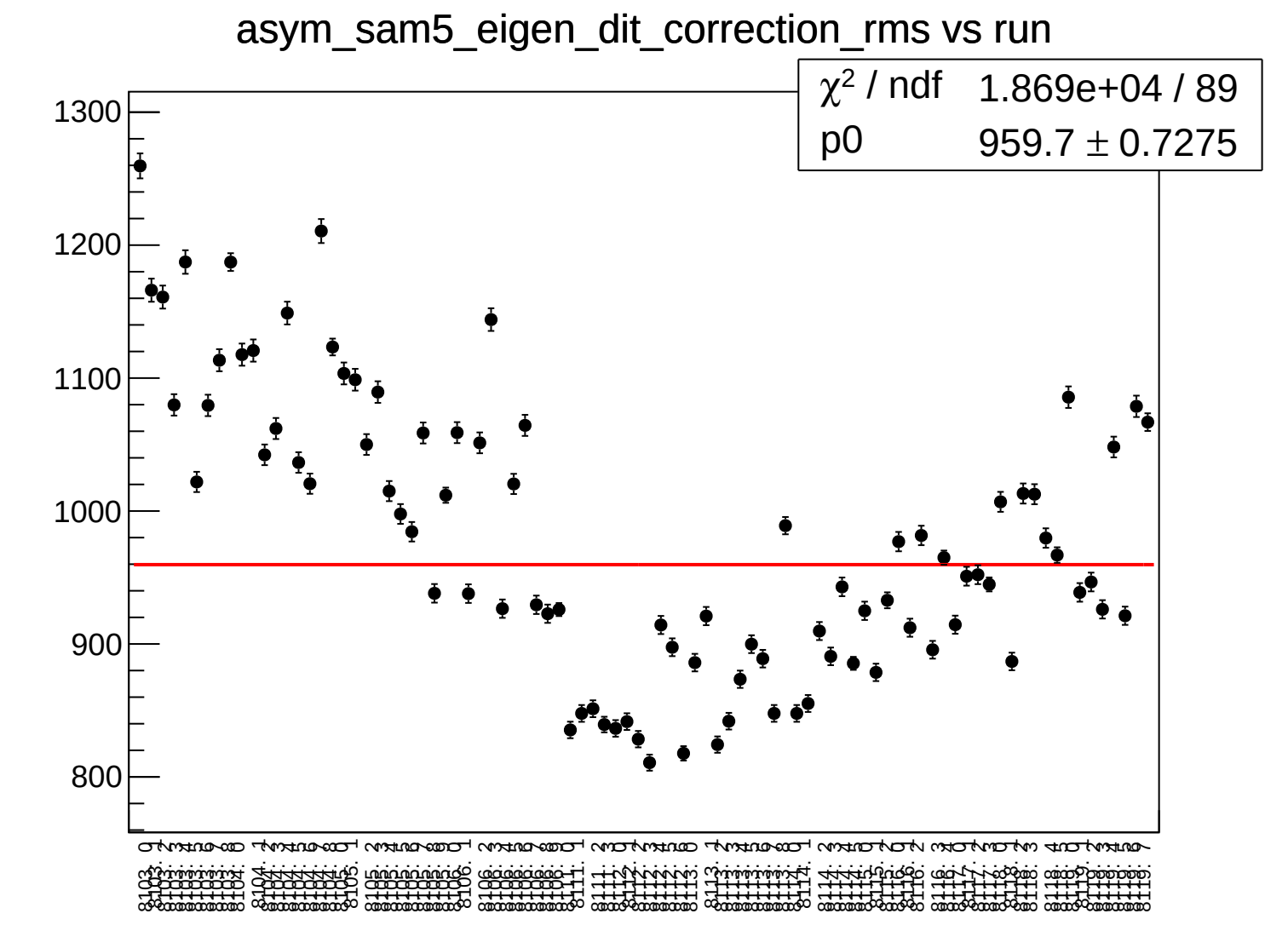

eigen_dit_asym_sam5_mean vs run
χ² / ndf 80.11 / 89
p0 188.4 ± 153.8
4000
2000
0
−2000
−4000
pull
Entries 90
Mean 356.9
Std Dev 0
2
1
0
−1
−2

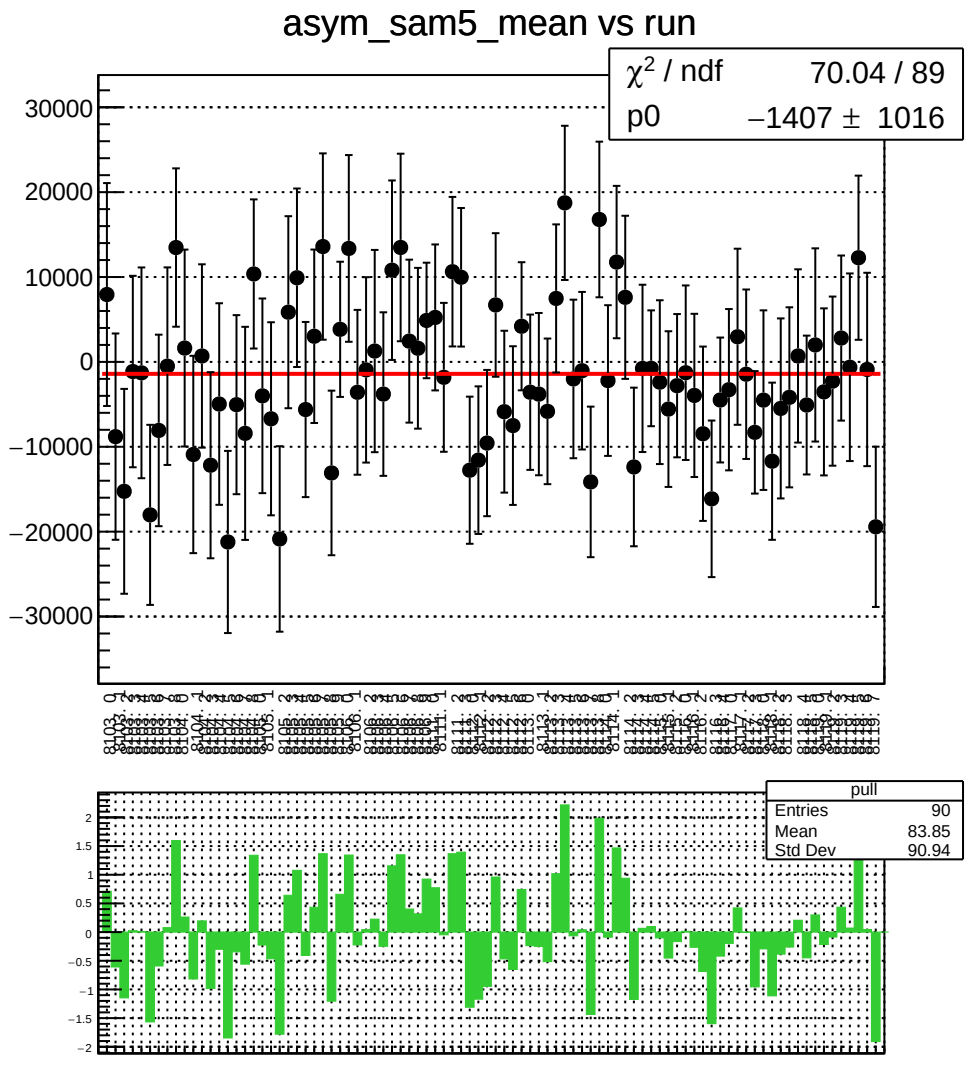

pull1D
Entries 90
Mean −0.01105
Std Dev 0.9434
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

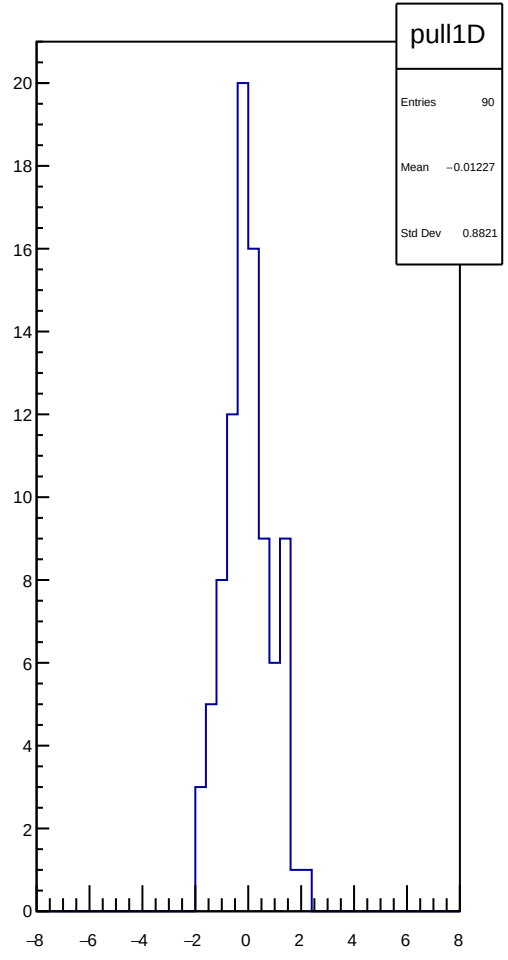

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1569 / 89
p0 144.2 ± 0.1087
160
155
150
145
140
135

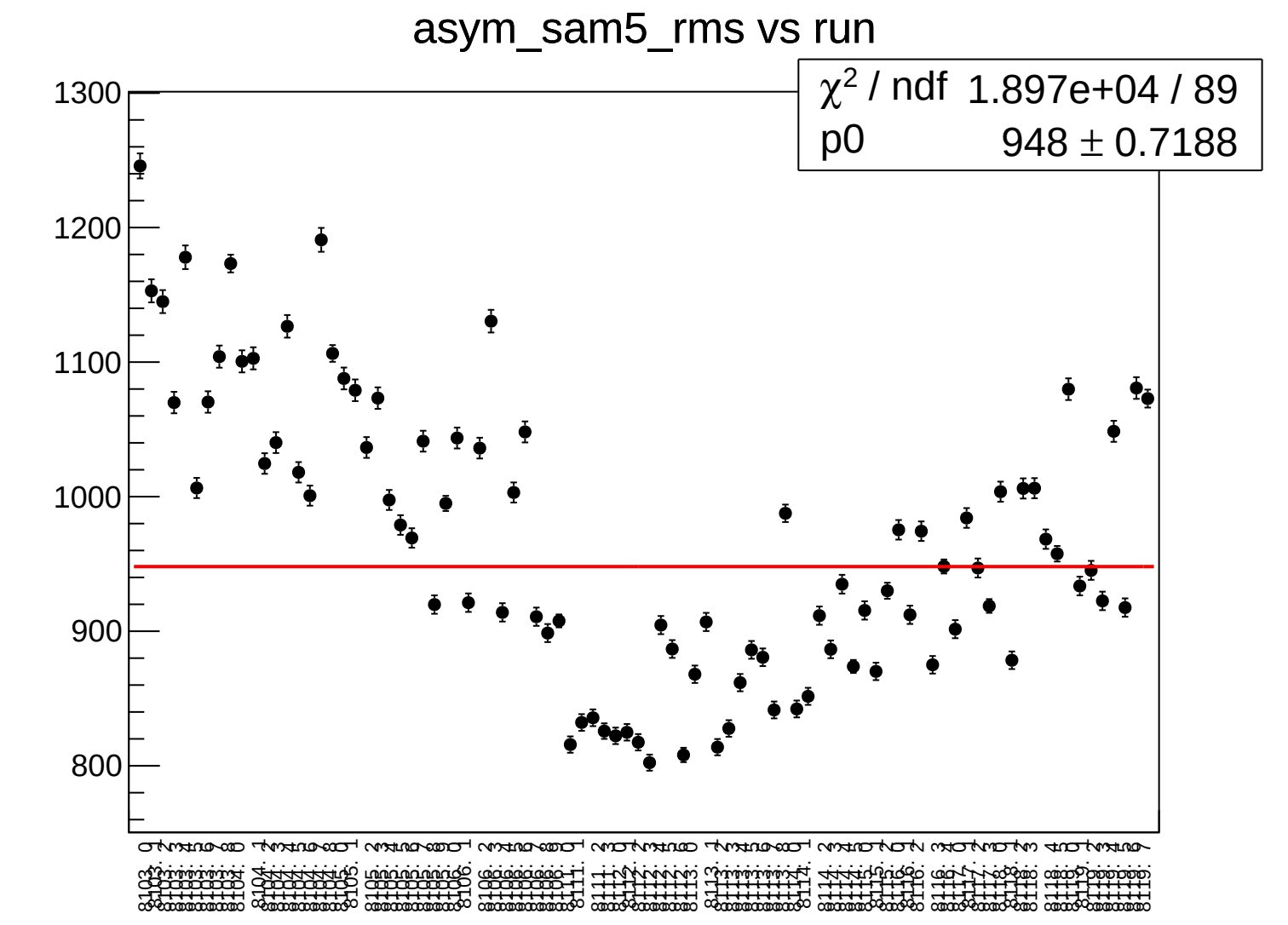

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 69.83 / 89
p0 1580 ± 1029
pull
Entries 90
Mean 47.13
Std Dev 99.57

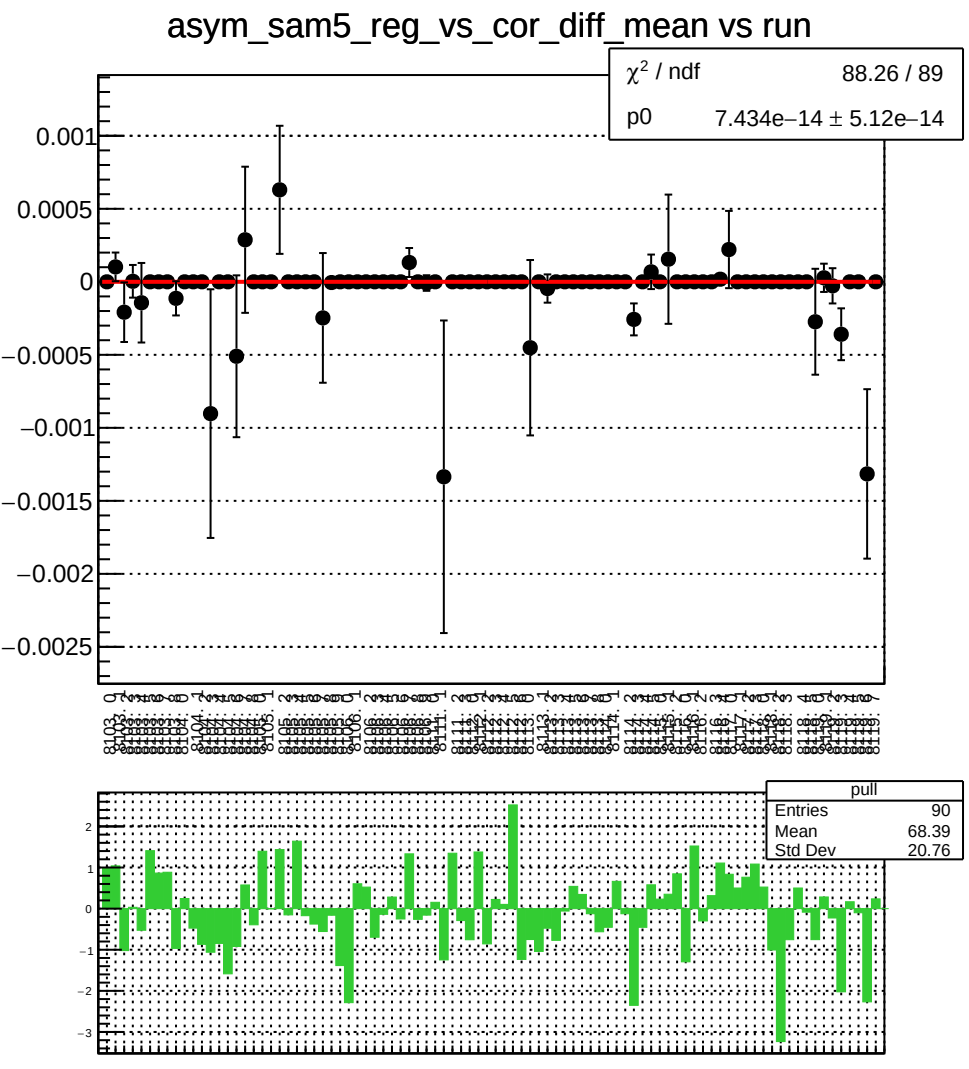

pull1D
Entries 90
Mean 0.01127
Std Dev 0.8808

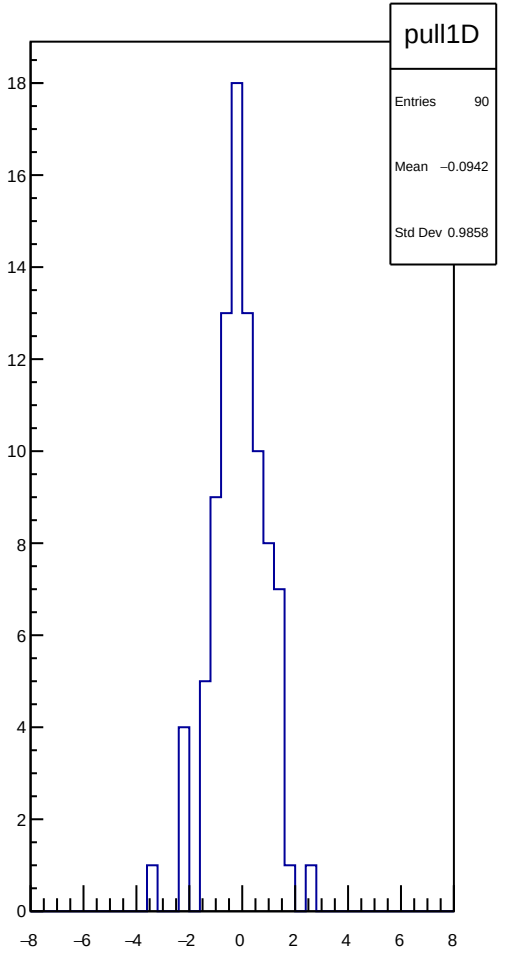

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.869e+04 / 89
p0 959.7 ± 0.7275
1300
1200
1100
1000
900
800

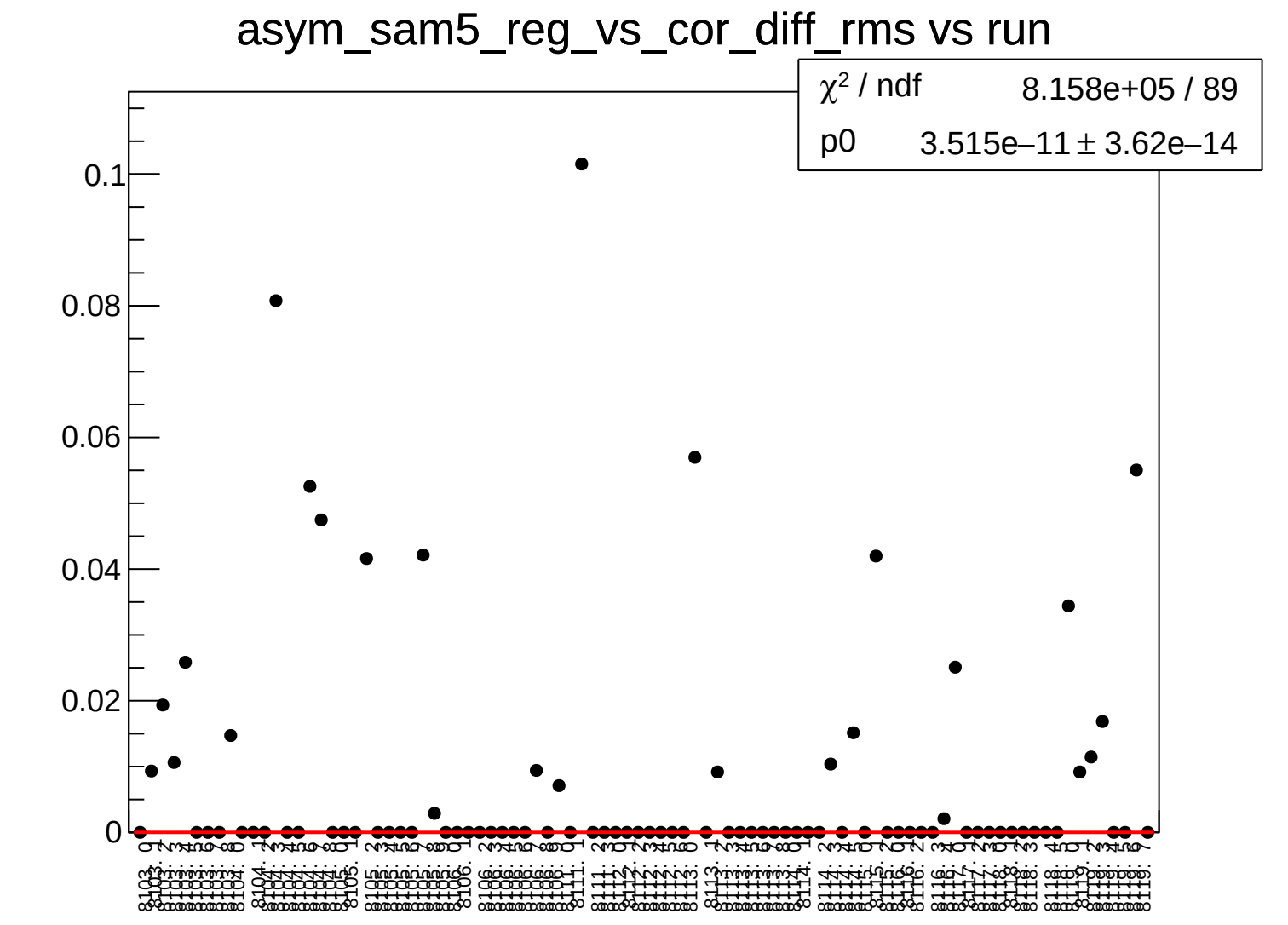

asym_sam5_mean vs run
χ² / ndf 70.04 / 89
p0 −1407 ± 1016
pull
Entries 90
Mean 83.85
Std Dev 90.94

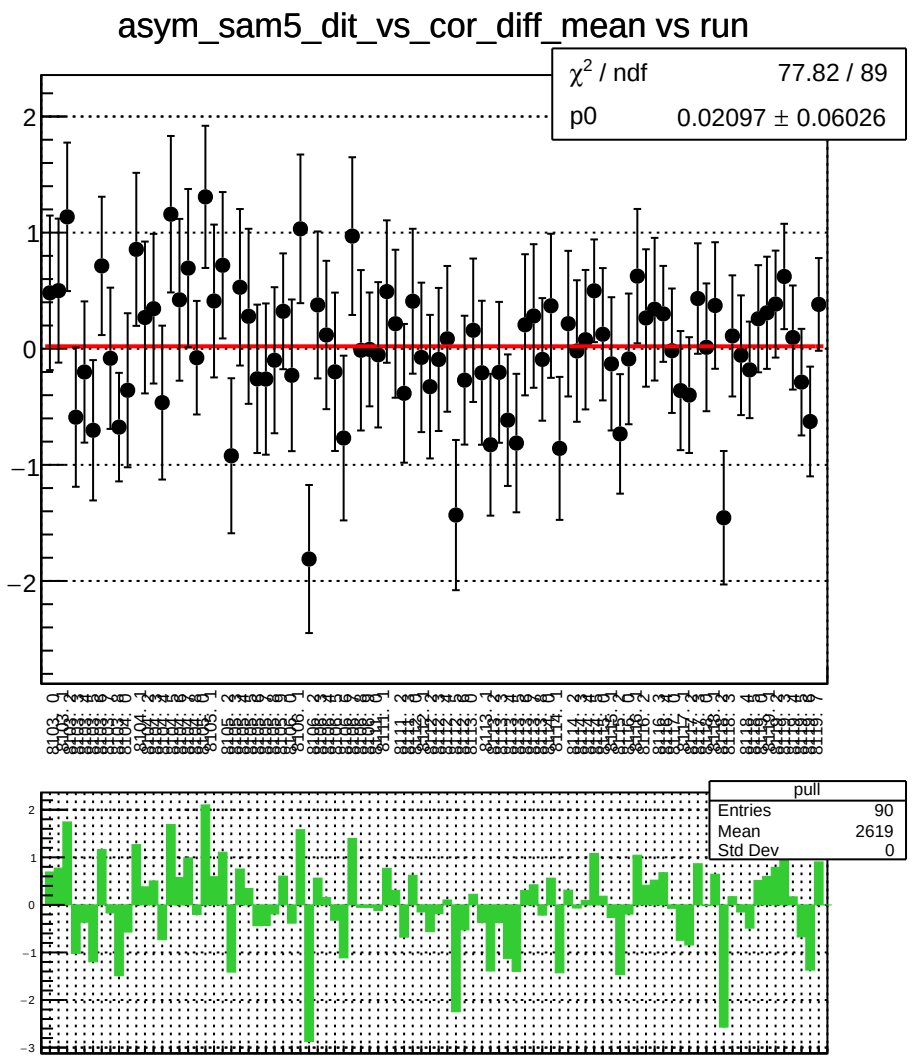

pull1D
Entries 90
Mean −0.01227
Std Dev 0.8821

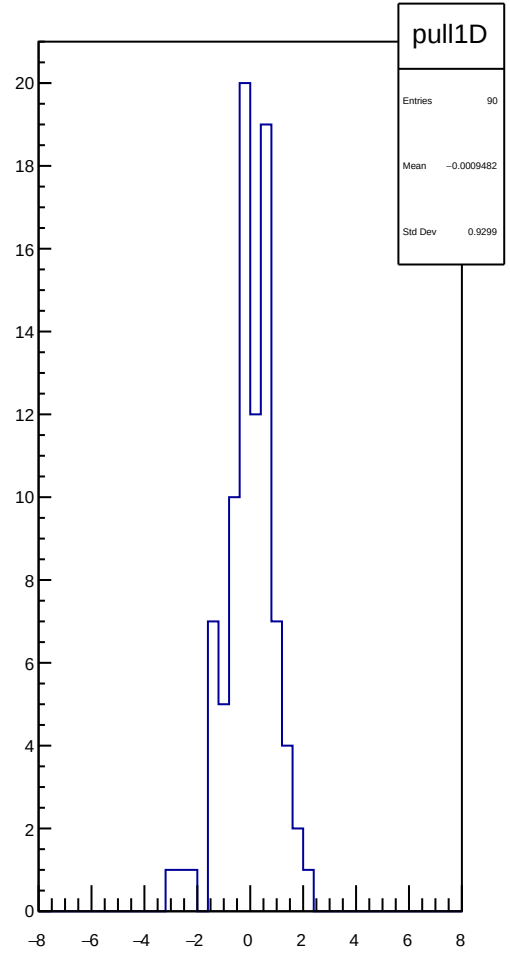

asym_sam5_rms vs run
χ^2 / ndf 1.897e+04 / 89
p0 948 ± 0.7188
1300
1200
1100
1000
900
800

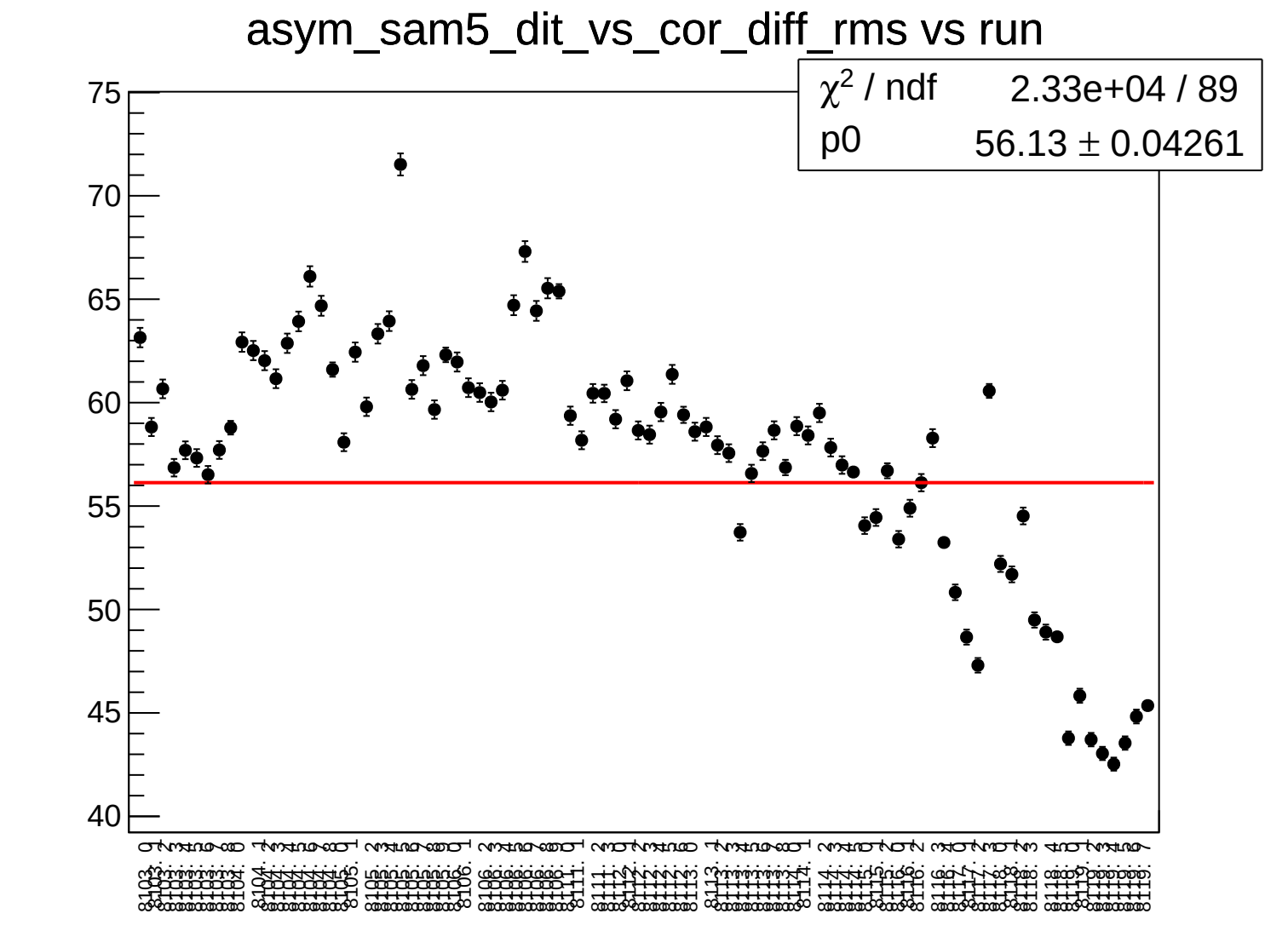

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 88.26 / 89
p0 7.434e−14 ± 5.12e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 90
Mean 68.39
Std Dev 20.76
2
1
0
−1
−2
−3

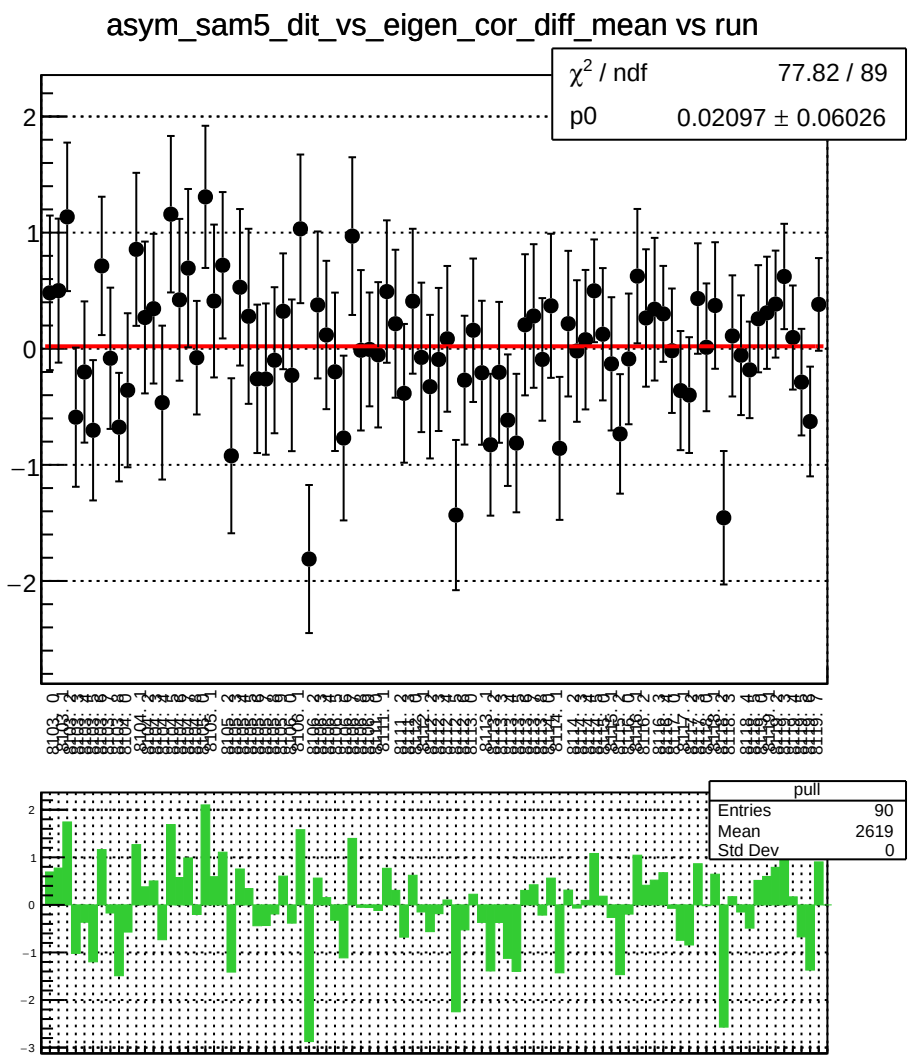

pull1D
Entries 90
Mean −0.0942
Std Dev 0.9858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

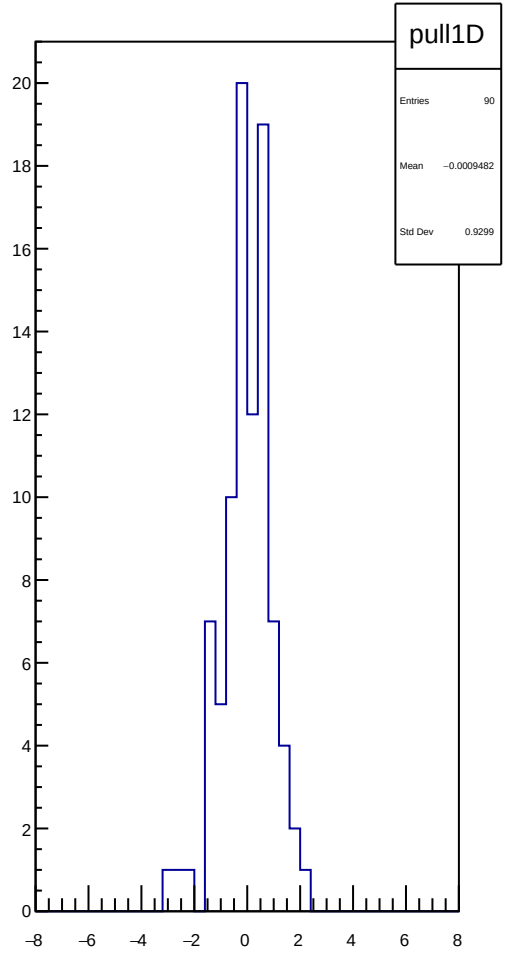

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 8.158e+05 / 89
p0 3.515e−11 ± 3.62e−14
0.1
0.08
0.06
0.04
0.02
0

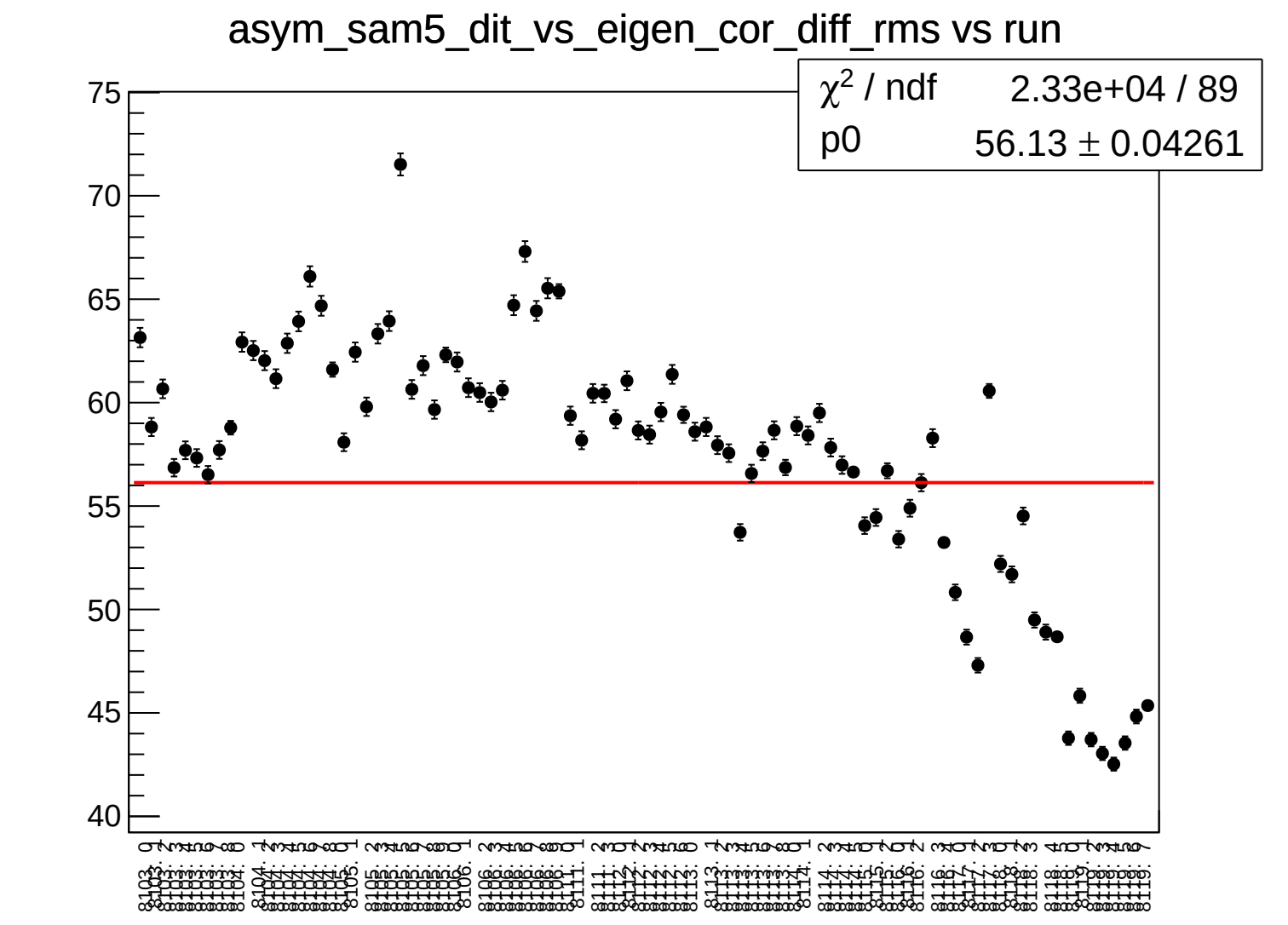

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 77.82 / 89
p0 0.02097 ± 0.06026
pull
Entries 90
Mean 2619
Std Dev 0

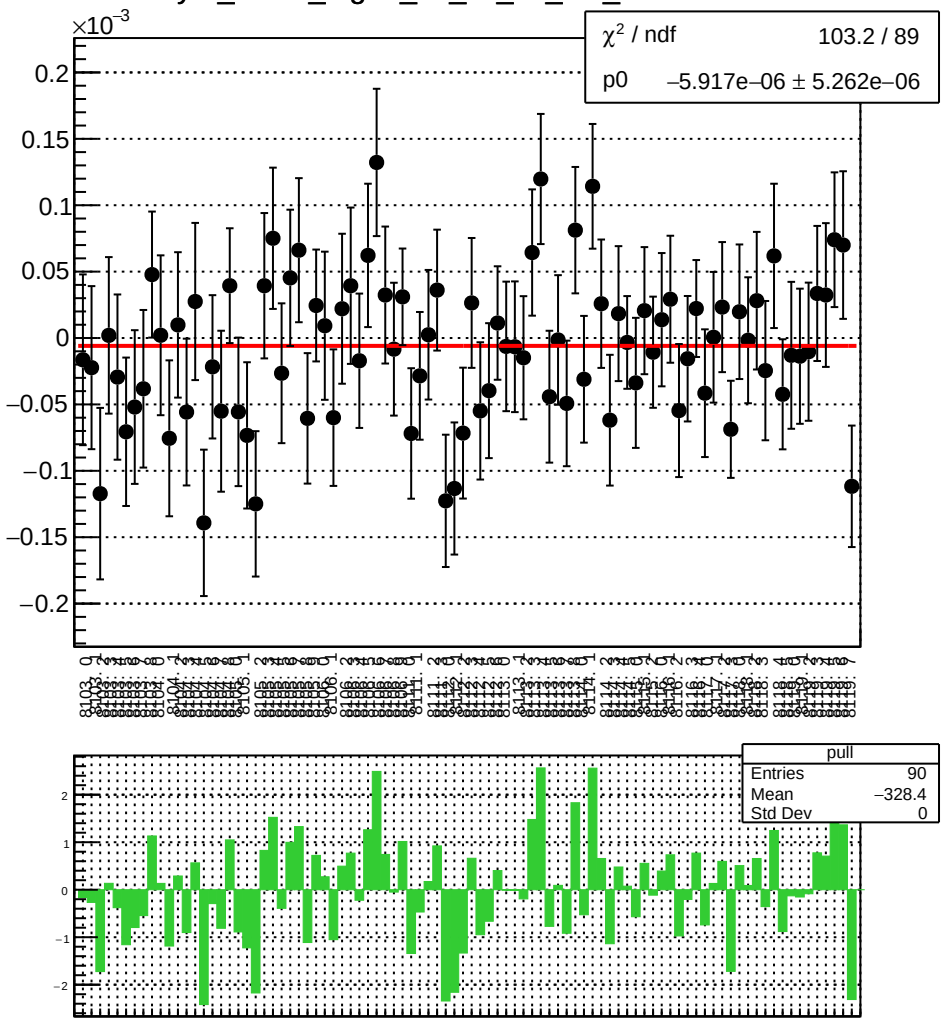

pull1D
Entries 90
Mean −0.0009482
Std Dev 0.9299

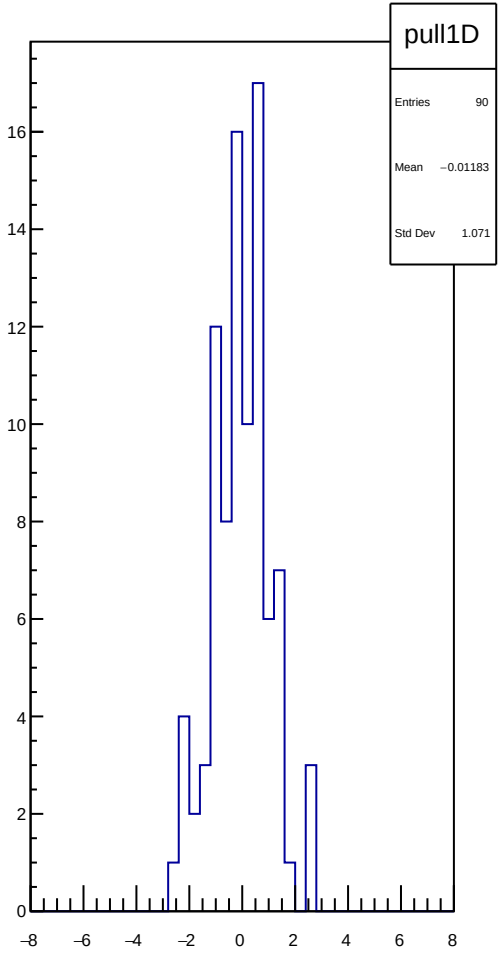

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.33e+04 / 89
p0 56.13 ± 0.04261
75
70
65
60
55
50
45
40

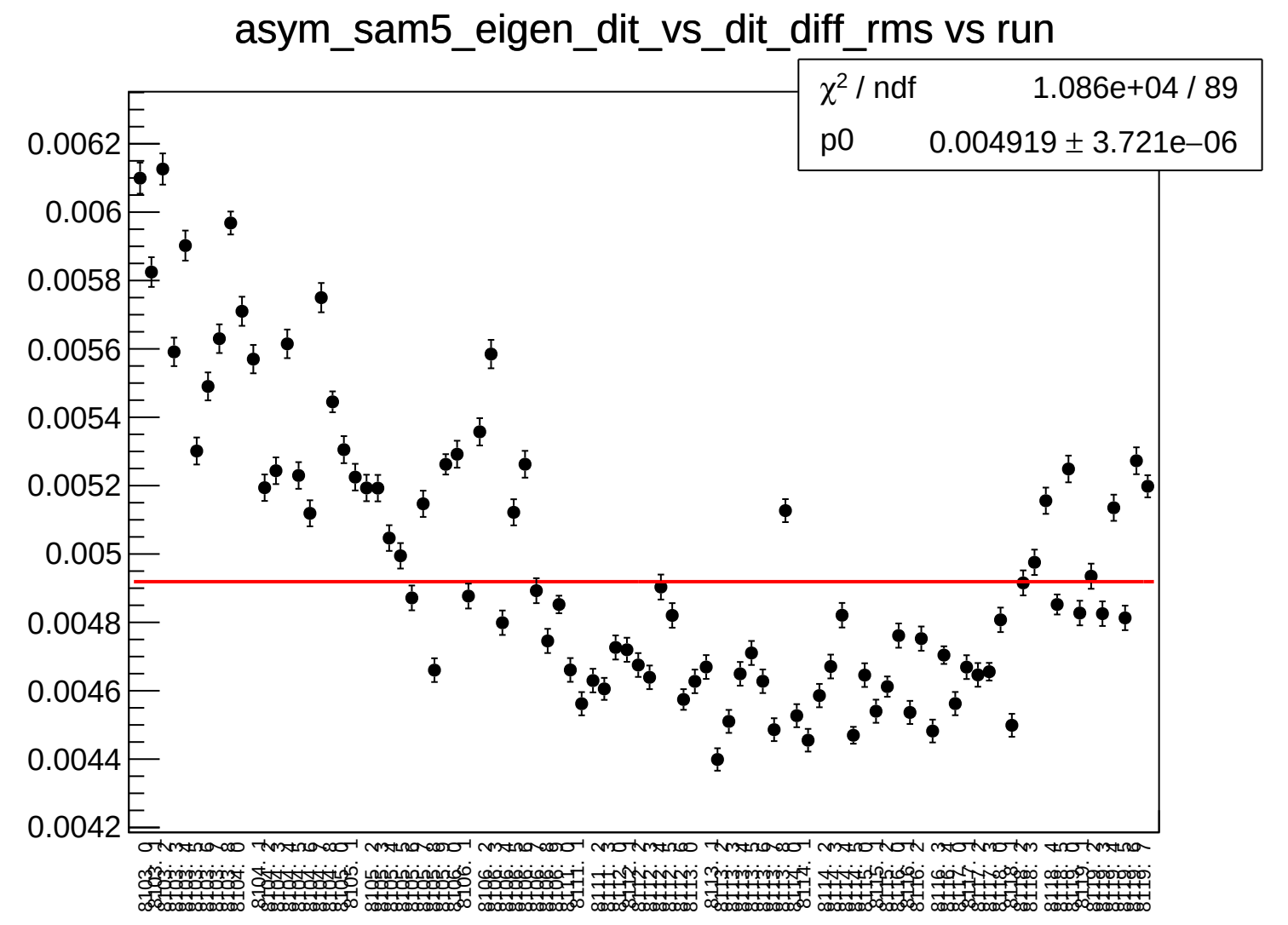

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.82 / 89
p0 0.02097 ± 0.06026
pull
Entries 90
Mean 2619
Std Dev 0

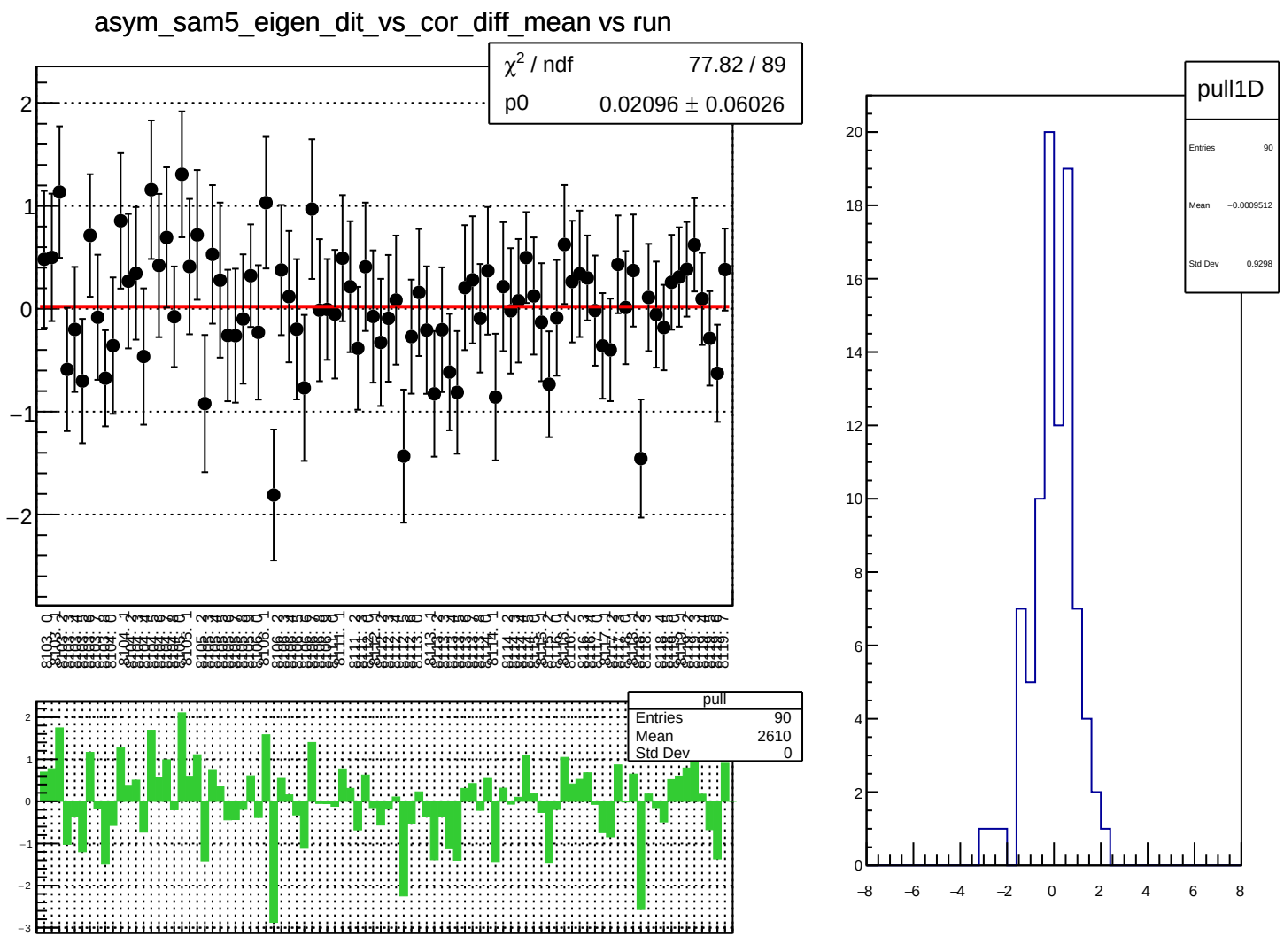

pull1D
Entries 90
Mean −0.0009482
Std Dev 0.9299

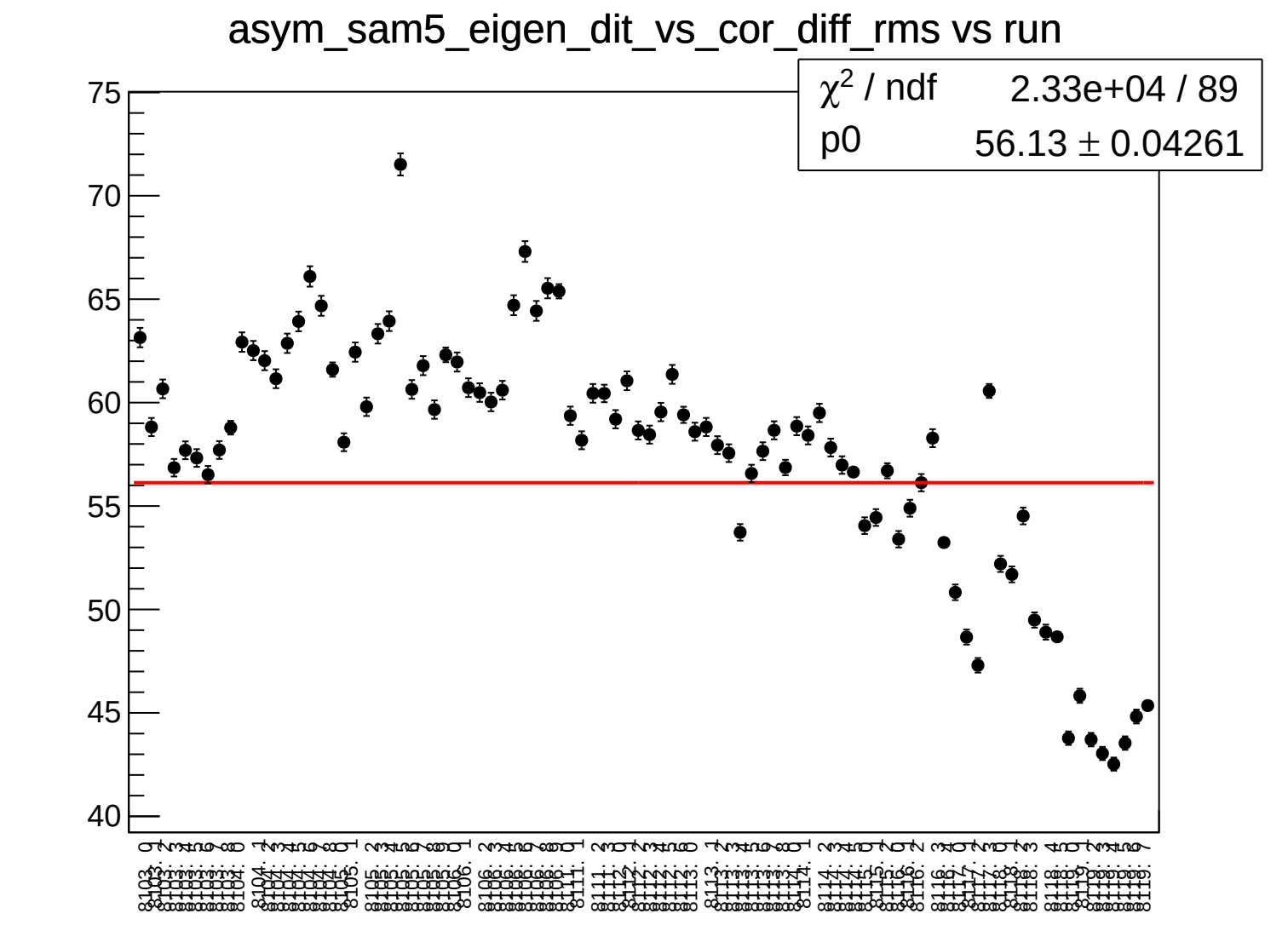

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.33e+04 / 89
p0 56.13 ± 0.04261
75
70
65
60
55
50
45
40

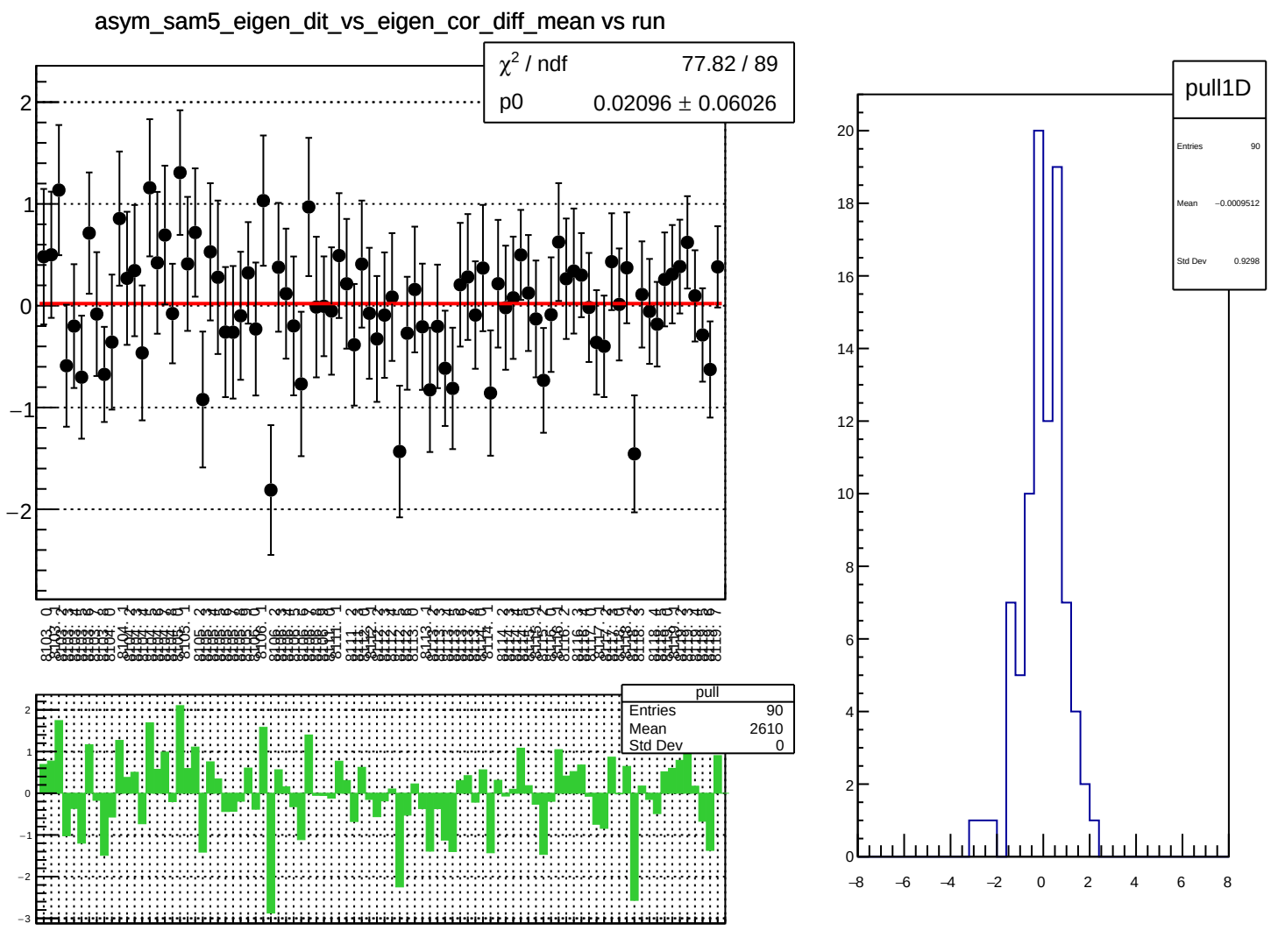

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.2 / 89
p0 −5.917e−06 ± 5.262e−06
pull
Entries 90
Mean −328.4
Std Dev 0

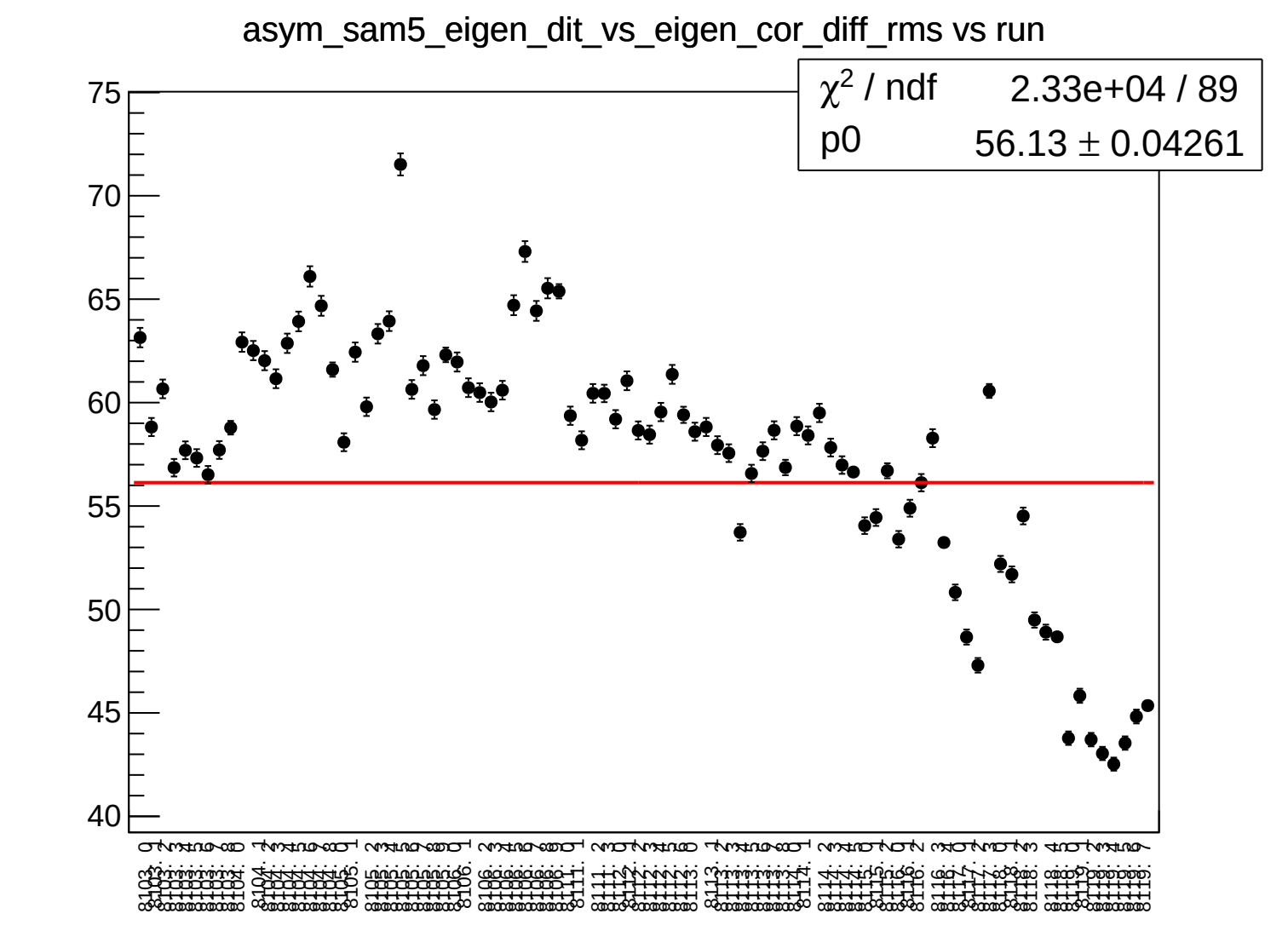

pull1D
Entries 90
Mean −0.01183
Std Dev 1.071

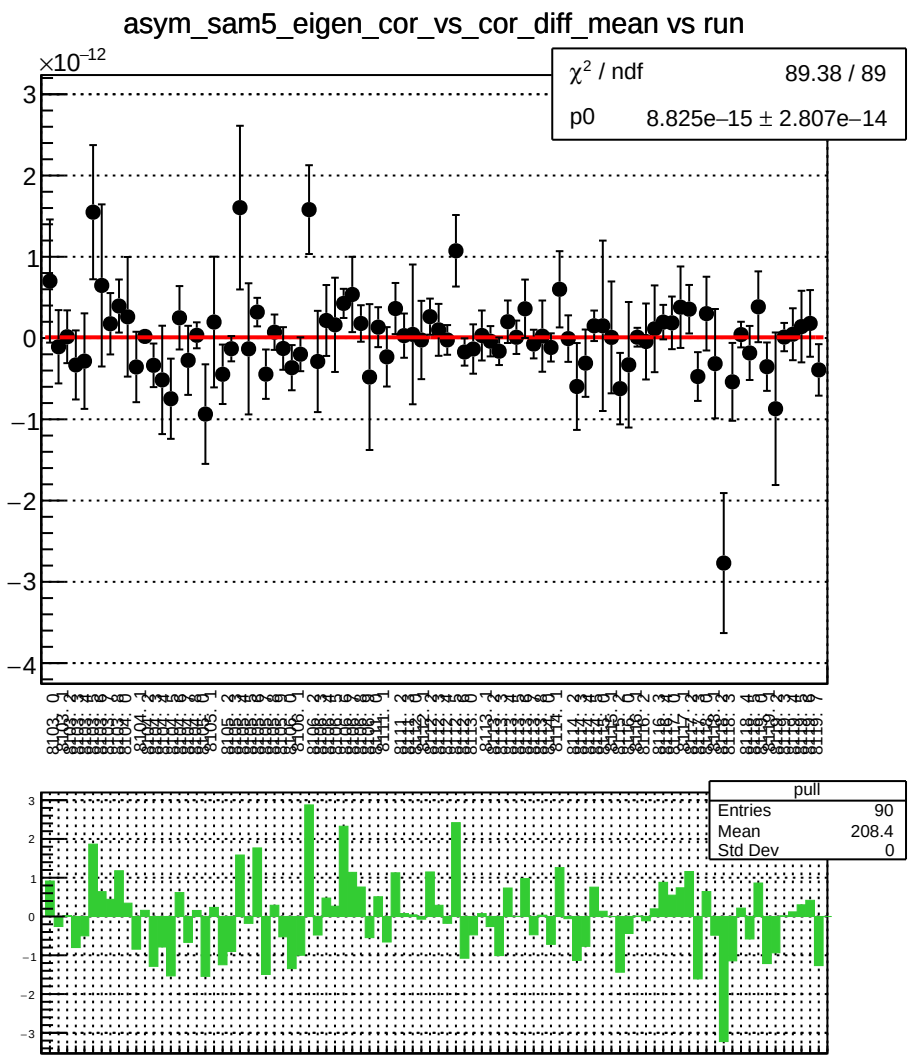

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.086e+04 / 89
p0 0.004919 ± 3.721e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

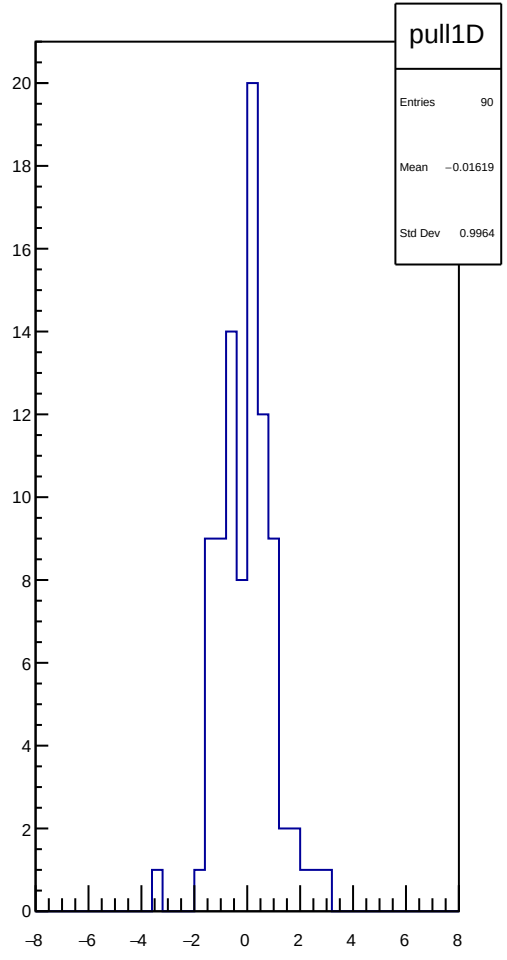

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.82 / 89
p0 0.02096 ± 0.06026
pull
Entries 90
Mean 2610
Std Dev 0
pull1D
Entries 90
Mean −0.0009512
Std Dev 0.9298

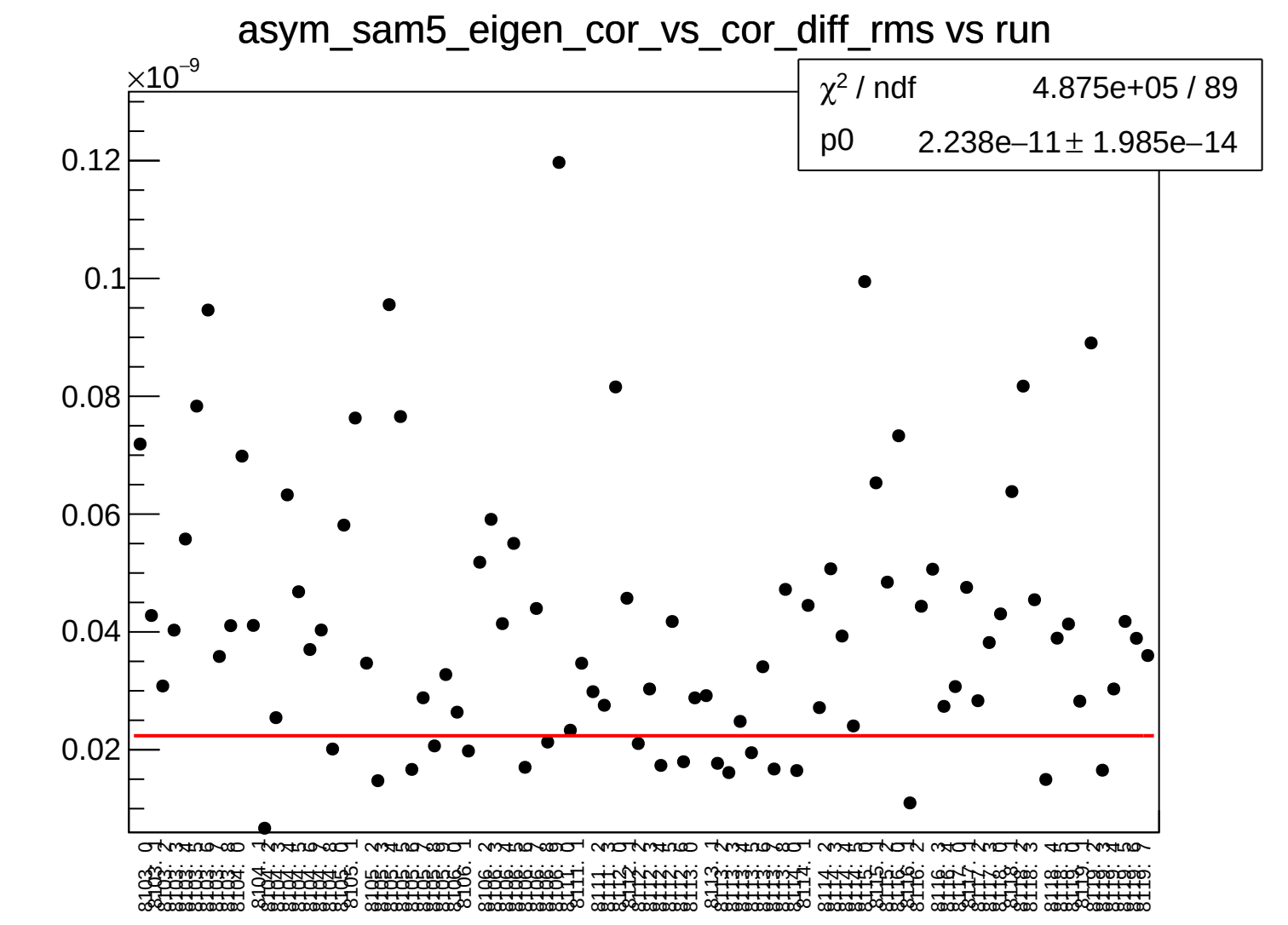

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.33e+04 / 89
p0 56.13 ± 0.04261
75
70
65
60
55
50
45
40

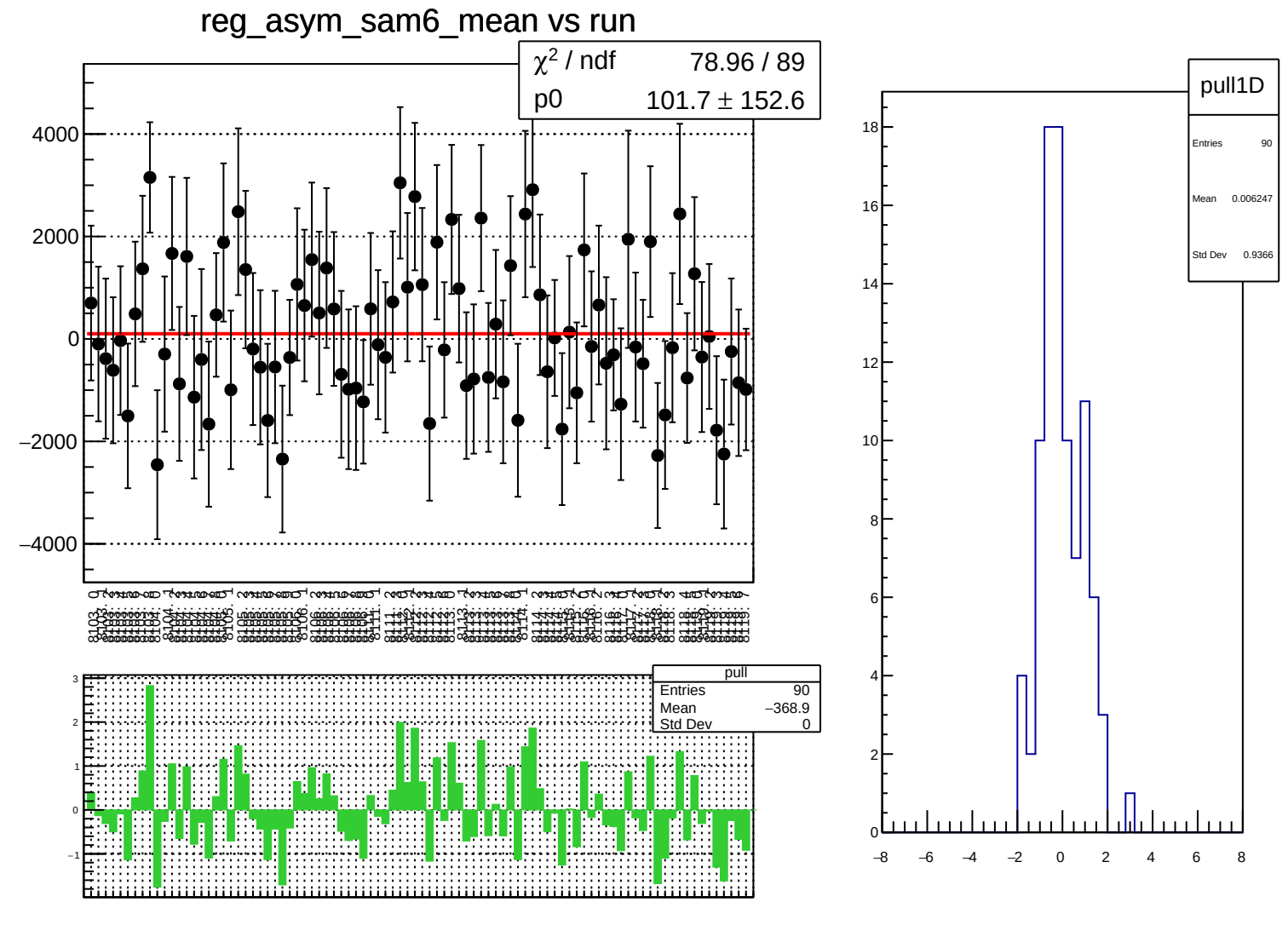

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.82 / 89
p0 0.02096 ± 0.06026
pull
Entries 90
Mean 2610
Std Dev 0
pull1D
Entries 90
Mean −0.0009512
Std Dev 0.9298

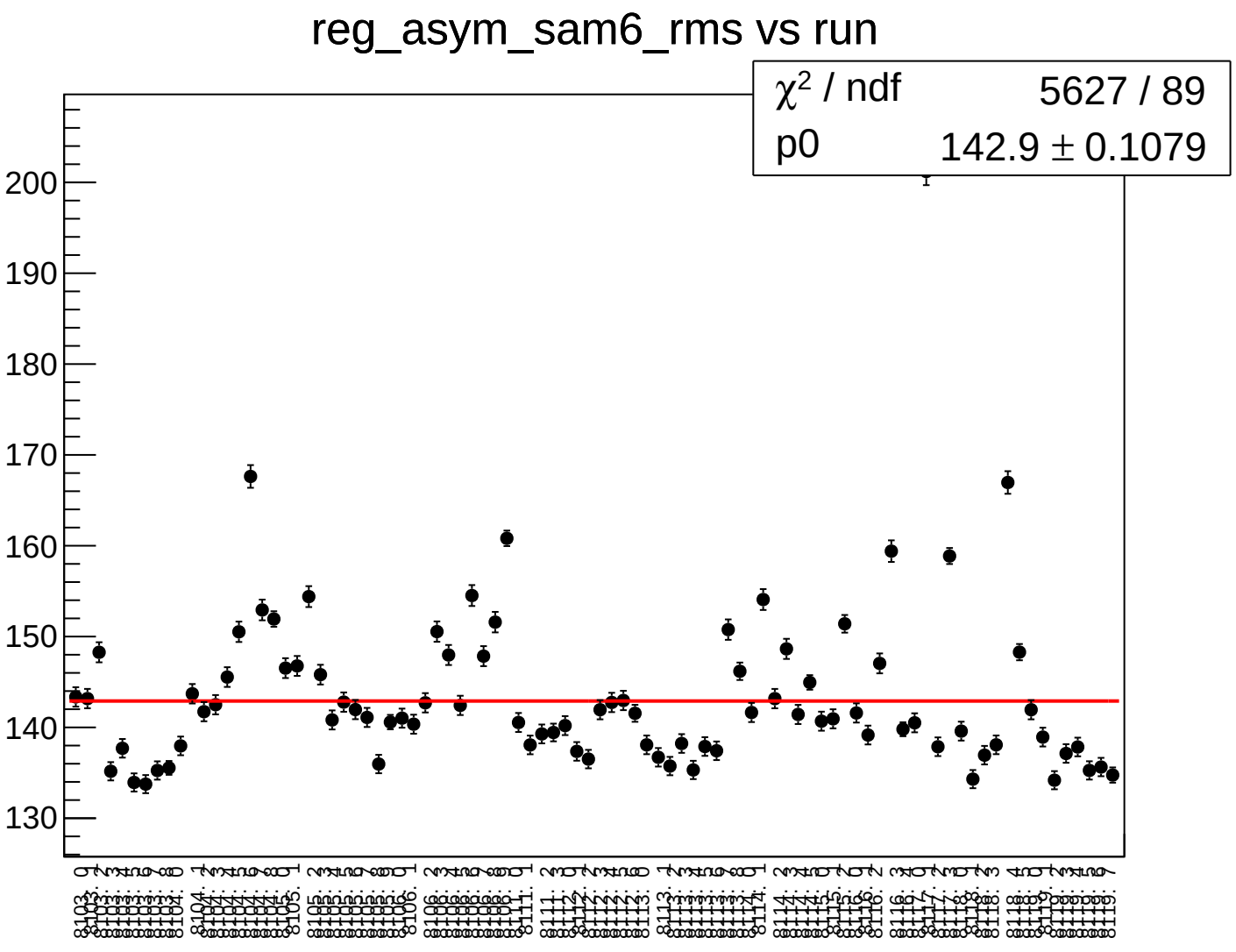

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.33e+04 / 89
p0 56.13 ± 0.04261
75
70
65
60
55
50
45
40

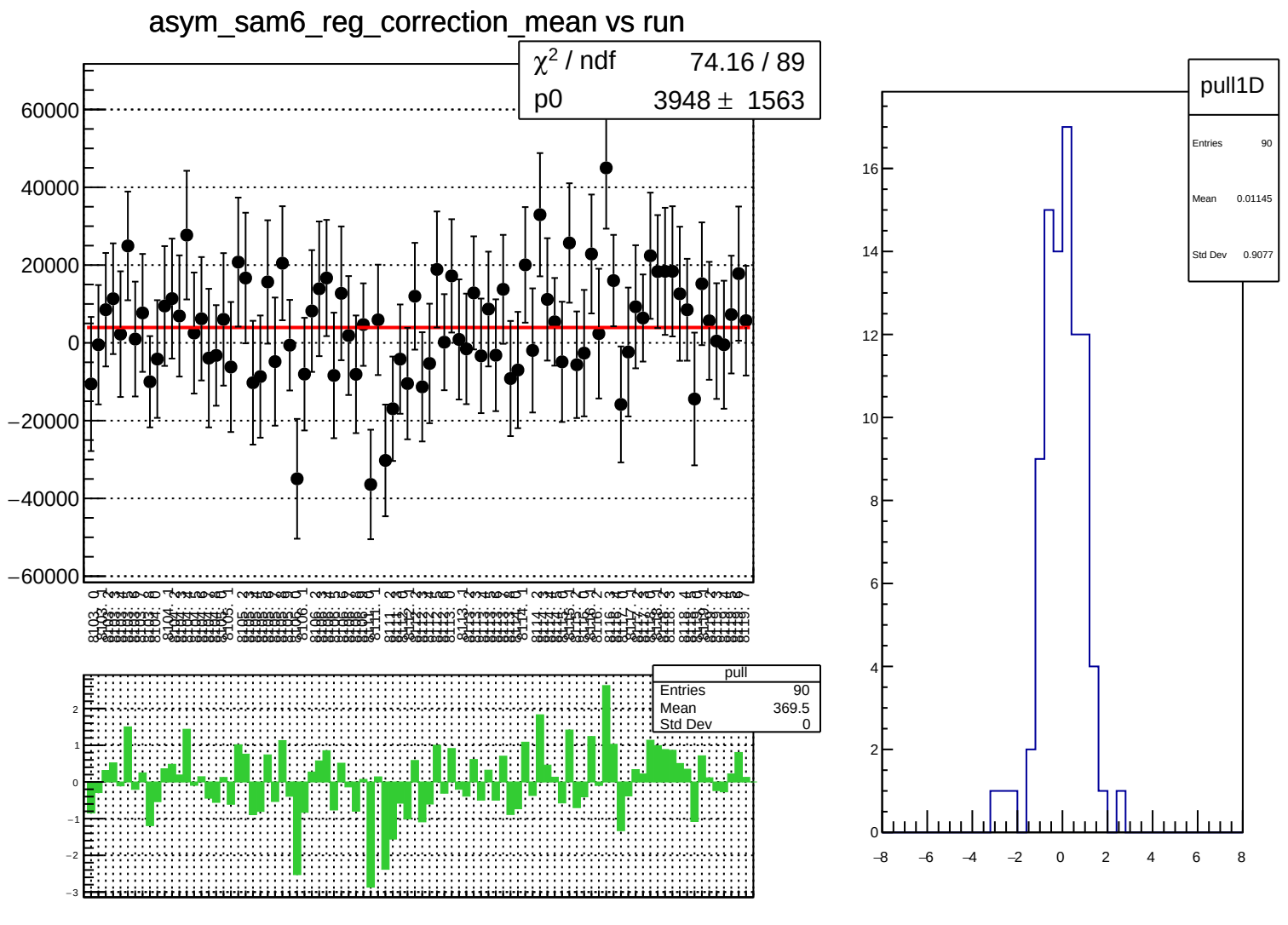

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.38 / 89
p0 8.825e−15 ± 2.807e−14
pull
Entries 90
Mean 208.4
Std Dev 0

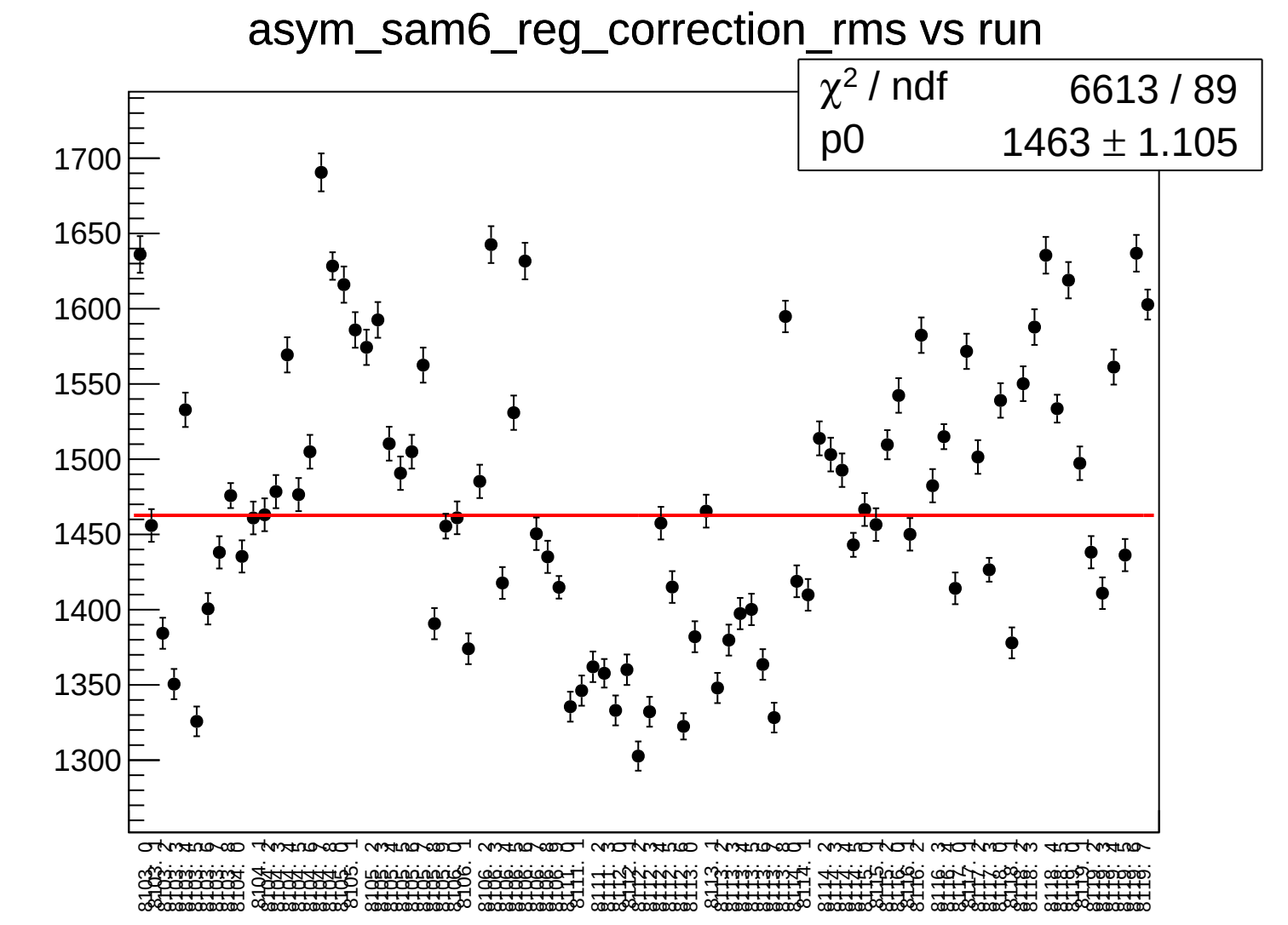

pull1D
Entries 90
Mean −0.01619
Std Dev 0.9964

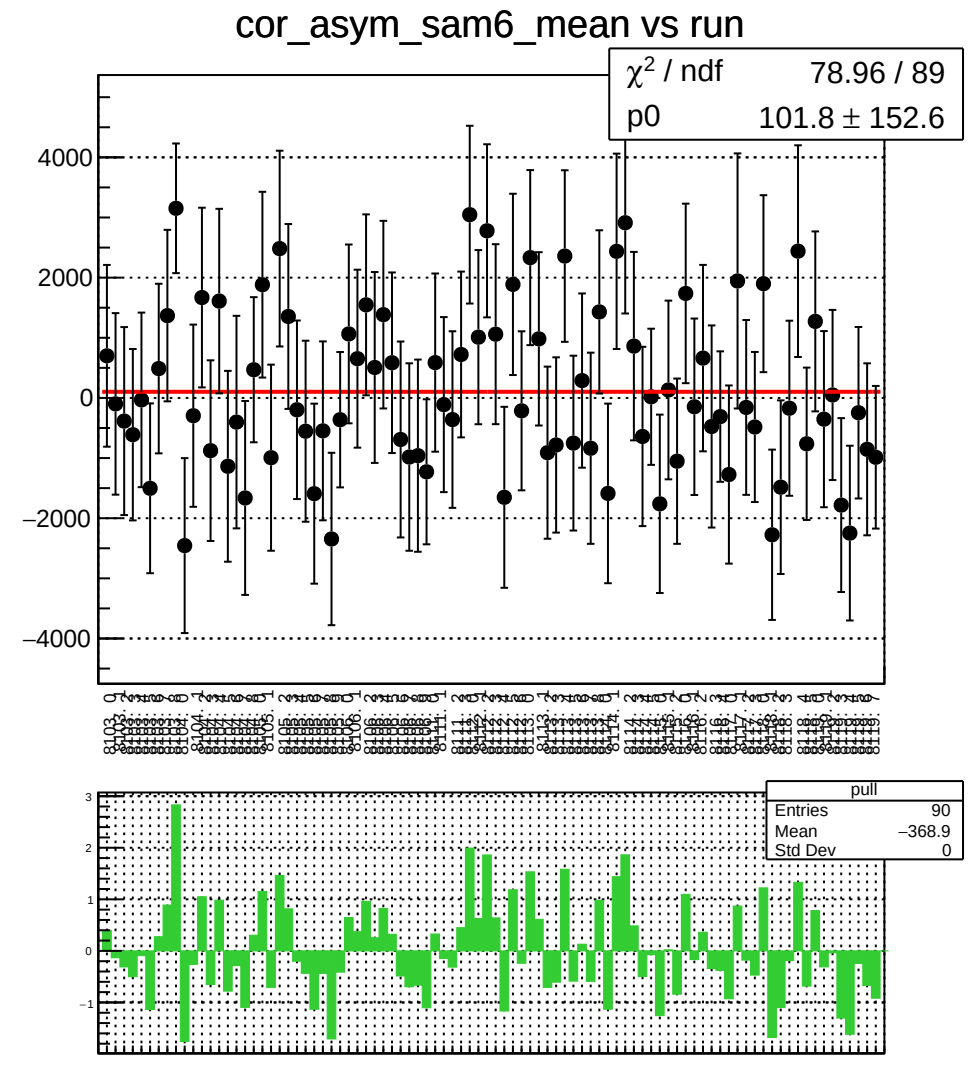

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.875e+05 / 89
p0 2.238e−11 ± 1.985e−14
0.12
0.1
0.08
0.06
0.04
0.02

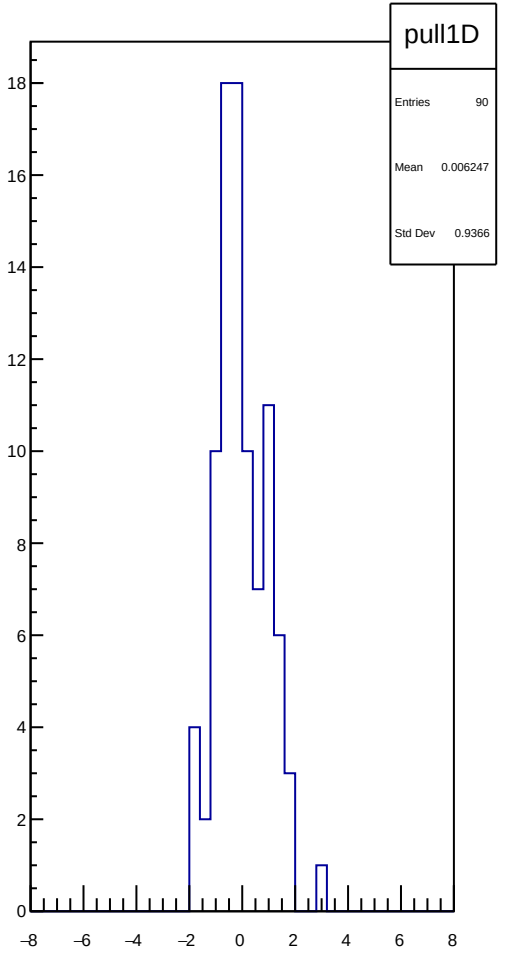

reg_asym_sam6_mean vs run
χ² / ndf 78.96 / 89
p0 101.7 ± 152.6
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −368.9
Std Dev 0
3
2
1
0
−1
pull1D
Entries 90
Mean 0.006247
Std Dev 0.9366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

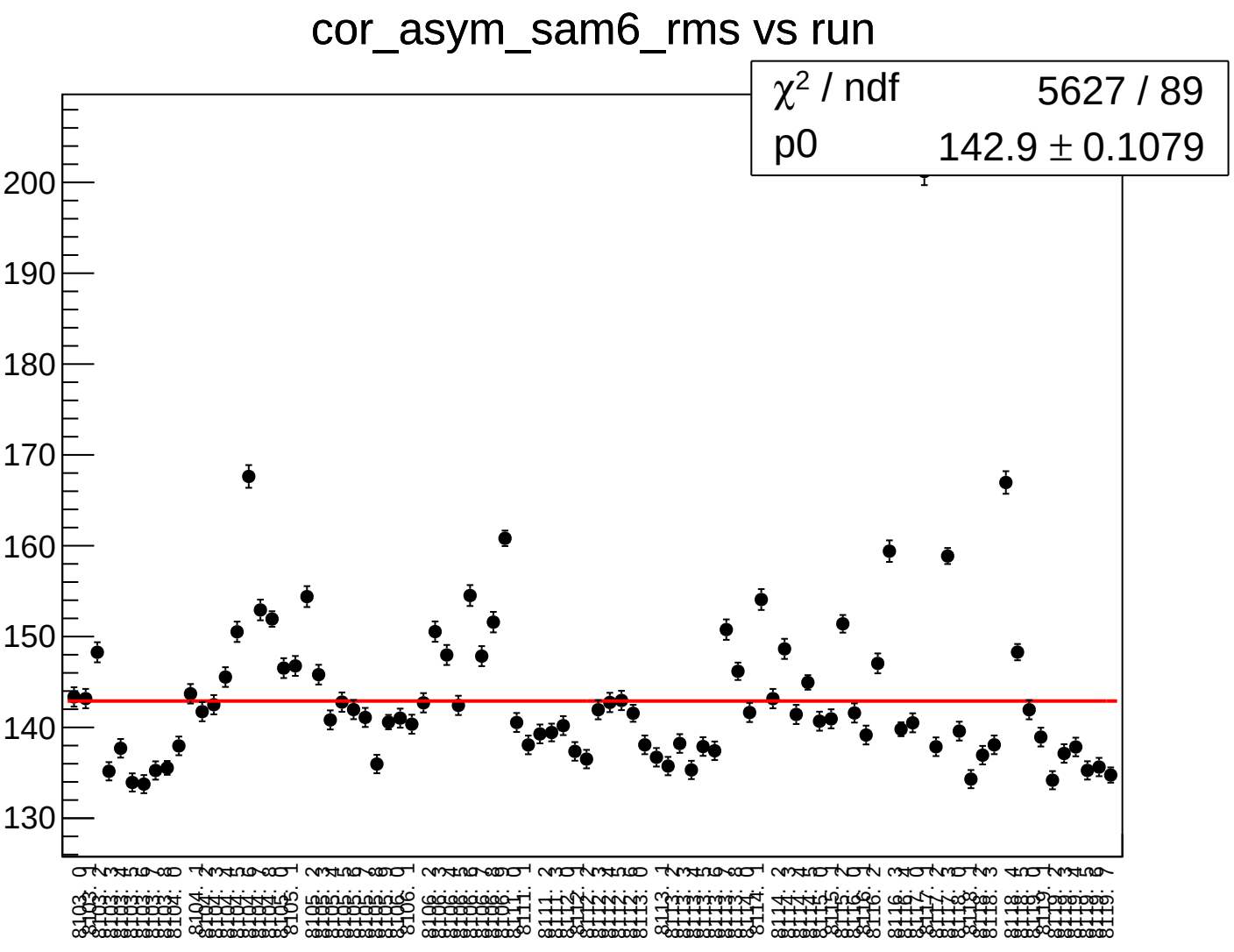

reg_asym_sam6_rms vs run
χ² / ndf 5627 / 89
p0 142.9 ± 0.1079
200
190
180
170
160
150
140
130

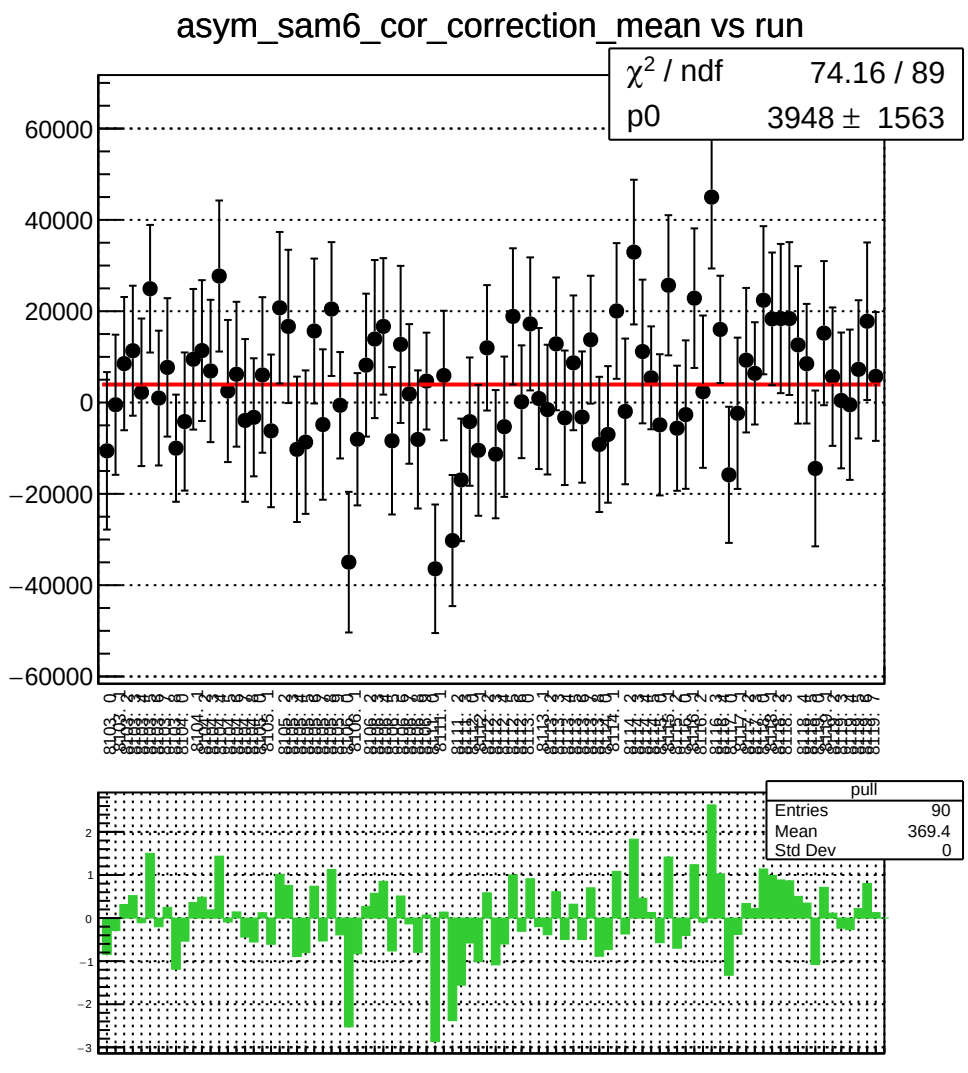

asym_sam6_reg_correction_mean vs run
χ² / ndf 74.16 / 89
p0 3948 ± 1563
pull
Entries 90
Mean 369.5
Std Dev 0
pull1D
Entries 90
Mean 0.01145
Std Dev 0.9077

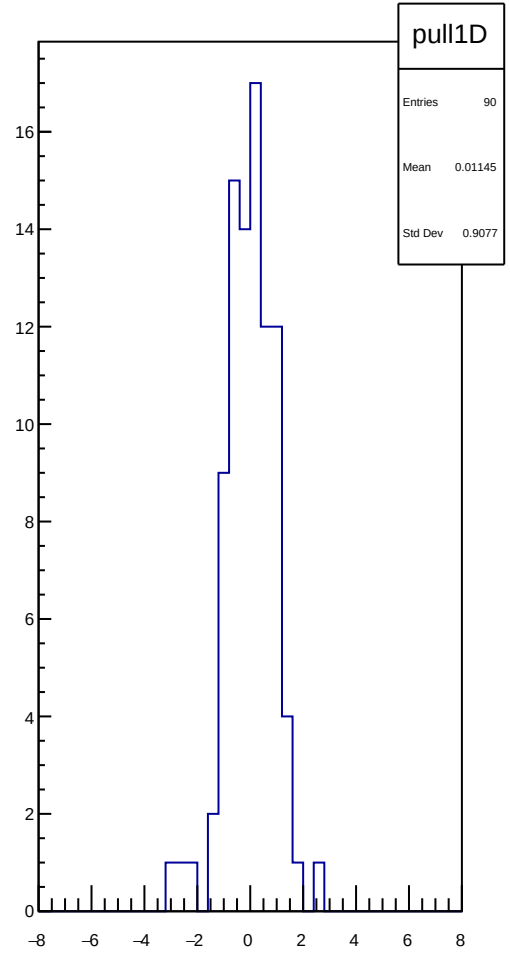

asym_sam6_reg_correction_rms vs run
χ² / ndf 6613 / 89
p0 1463 ± 1.105
1700
1650
1600
1550
1500
1450
1400
1350
1300

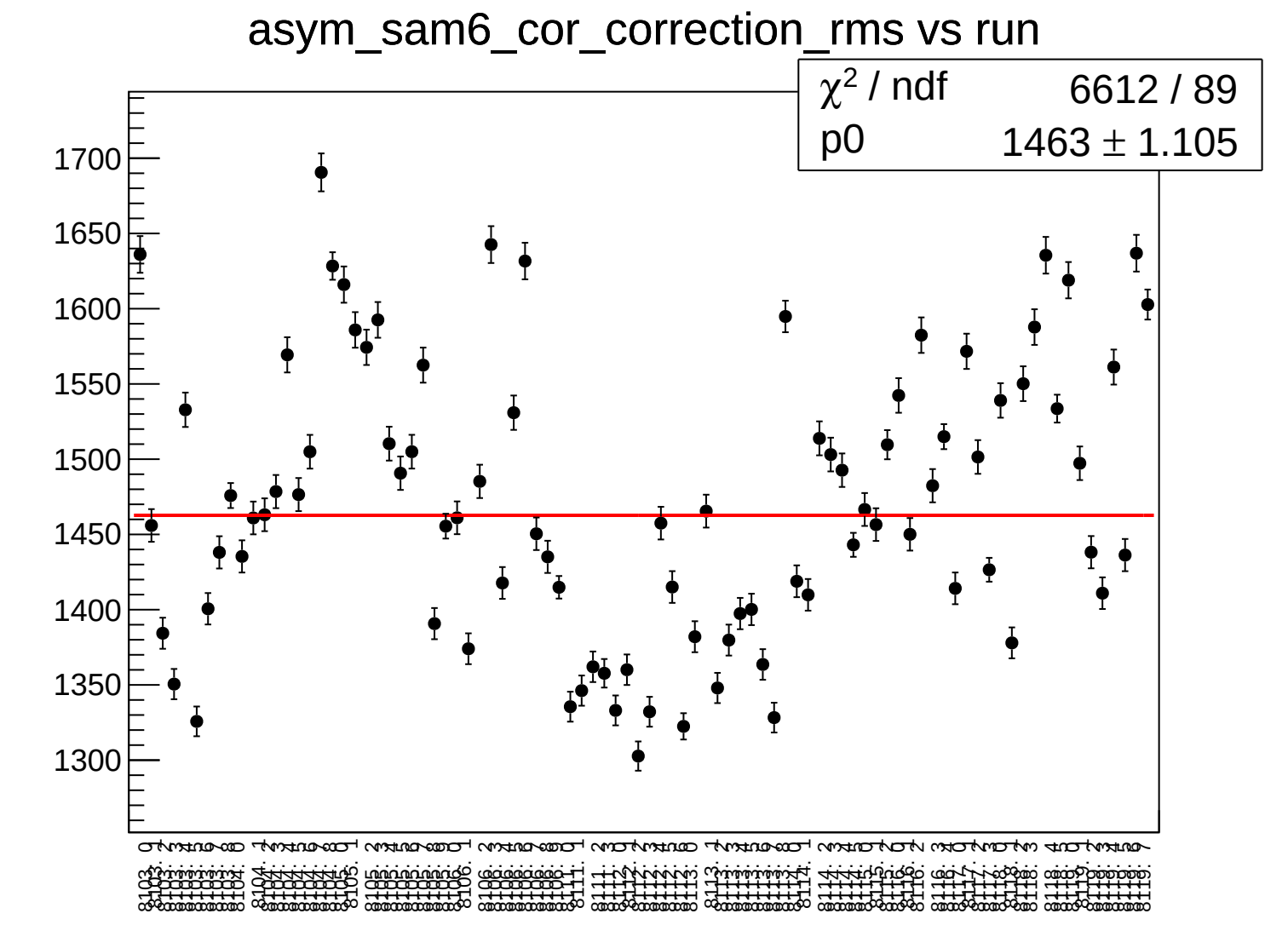

cor_asym_sam6_mean vs run
χ² / ndf 78.96 / 89
p0 101.8 ± 152.6
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −368.9
Std Dev 0
3
2
1
0
−1

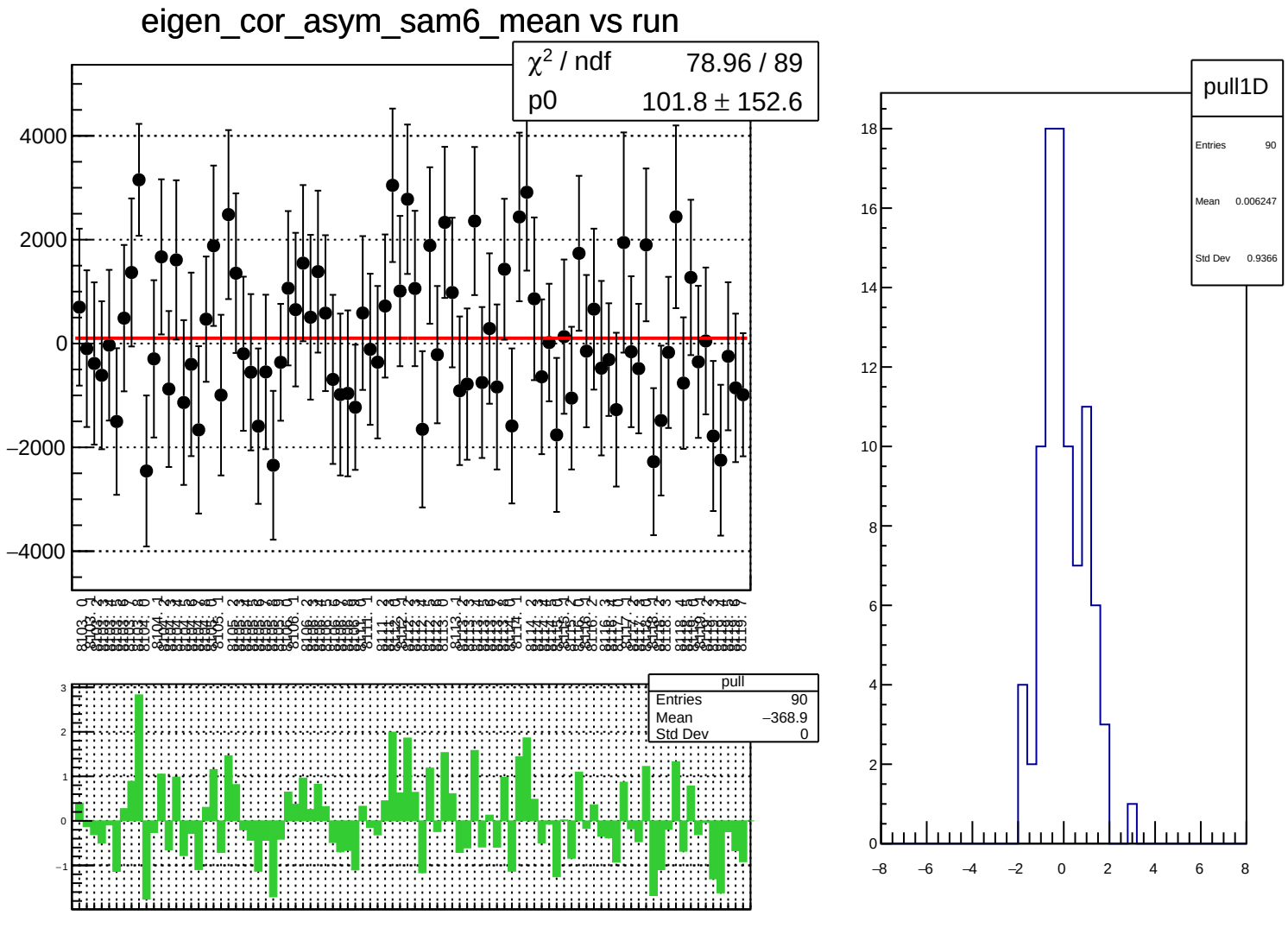

pull1D
Entries 90
Mean 0.006247
Std Dev 0.9366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

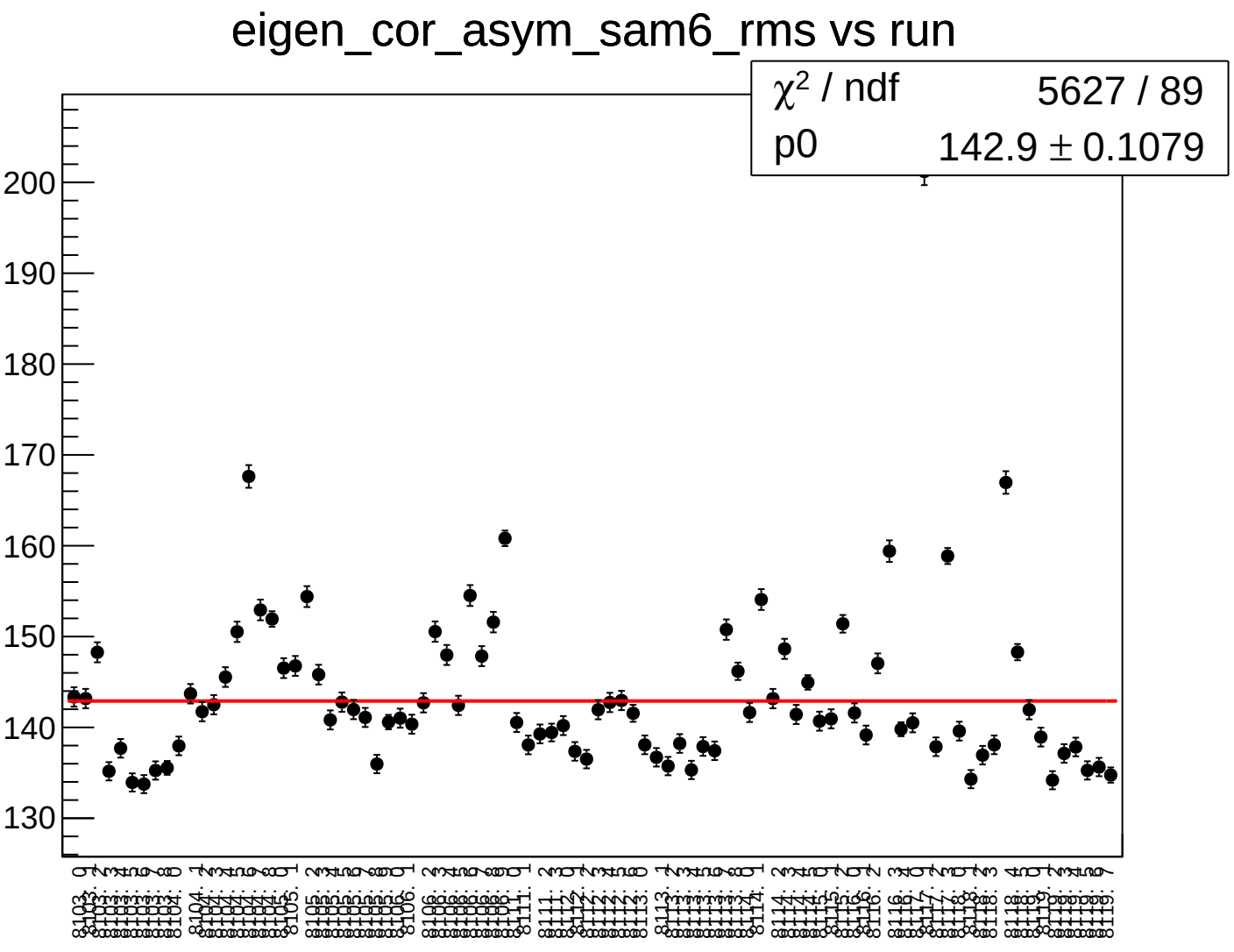

cor_asym_sam6_rms vs run
χ² / ndf 5627 / 89
p0 142.9 ± 0.1079
200
190
180
170
160
150
140
130

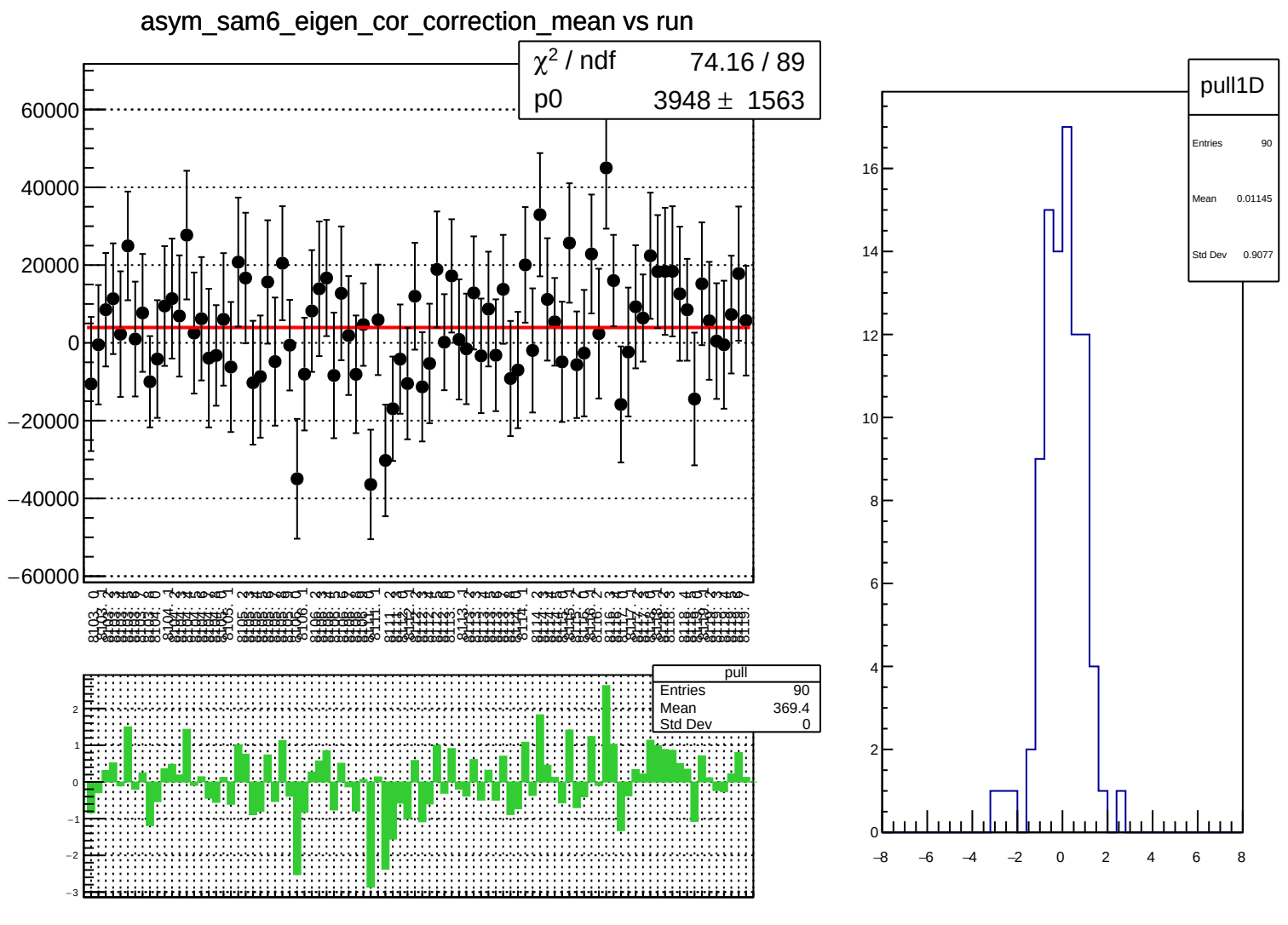

asym_sam6_cor_correction_mean vs run
χ² / ndf 74.16 / 89
p0 3948 ± 1563
pull
Entries 90
Mean 369.4
Std Dev 0

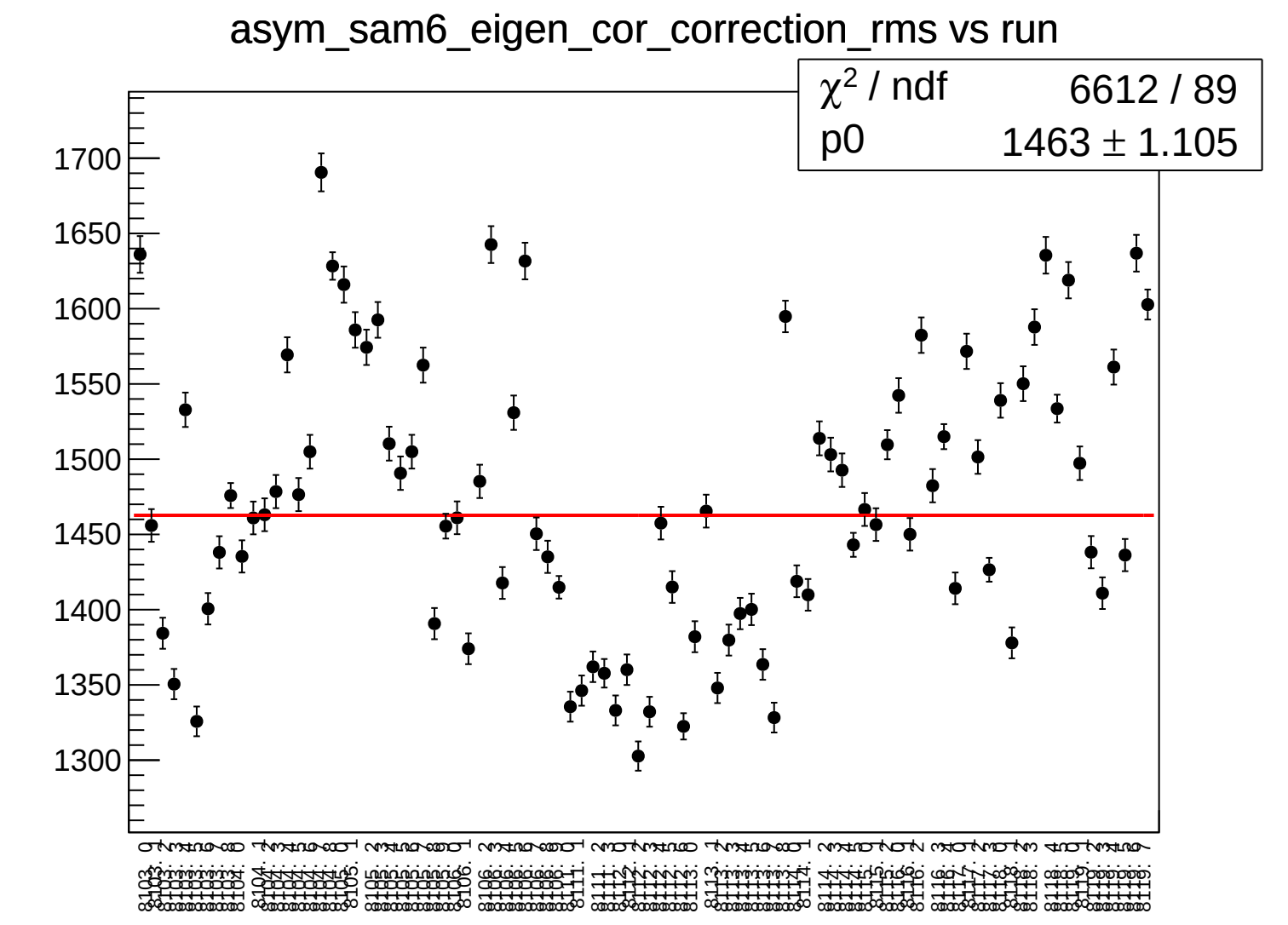

pull1D
Entries 90
Mean 0.01145
Std Dev 0.9077

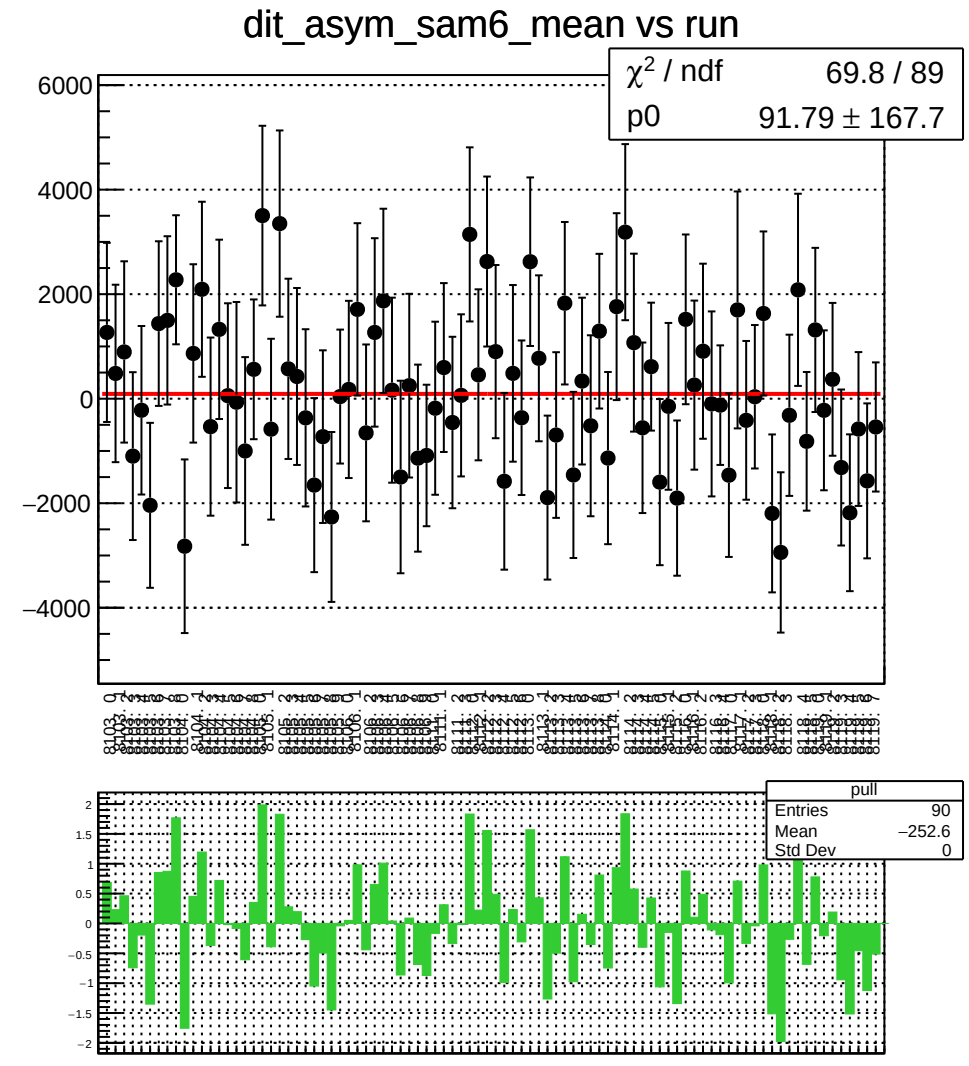

asym_sam6_cor_correction_rms vs run
χ² / ndf 6612 / 89
p0 1463 ± 1.105
1700
1650
1600
1550
1500
1450
1400
1350
1300

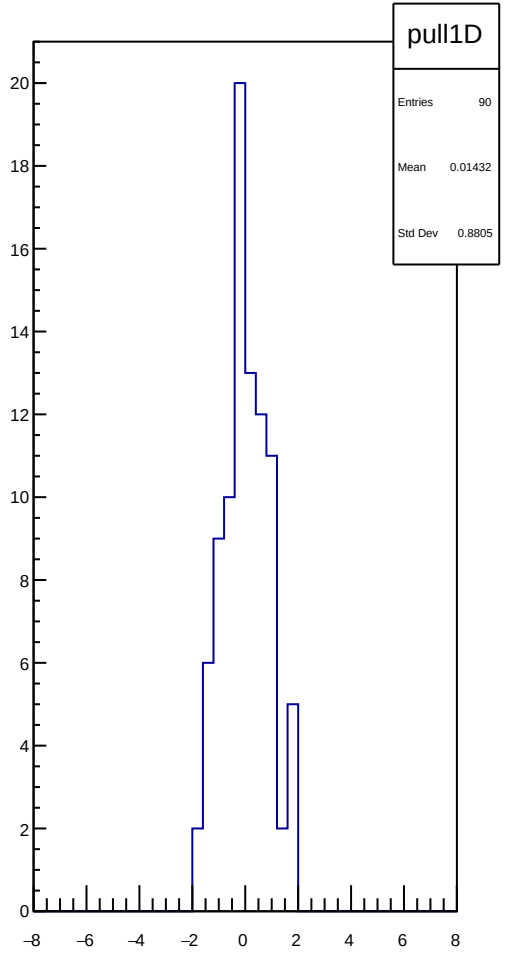

eigen_cor_asym_sam6_mean vs run
χ² / ndf 78.96 / 89
p0 101.8 ± 152.6
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −368.9
Std Dev 0
3
2
1
0
−1
pull1D
Entries 90
Mean 0.006247
Std Dev 0.9366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

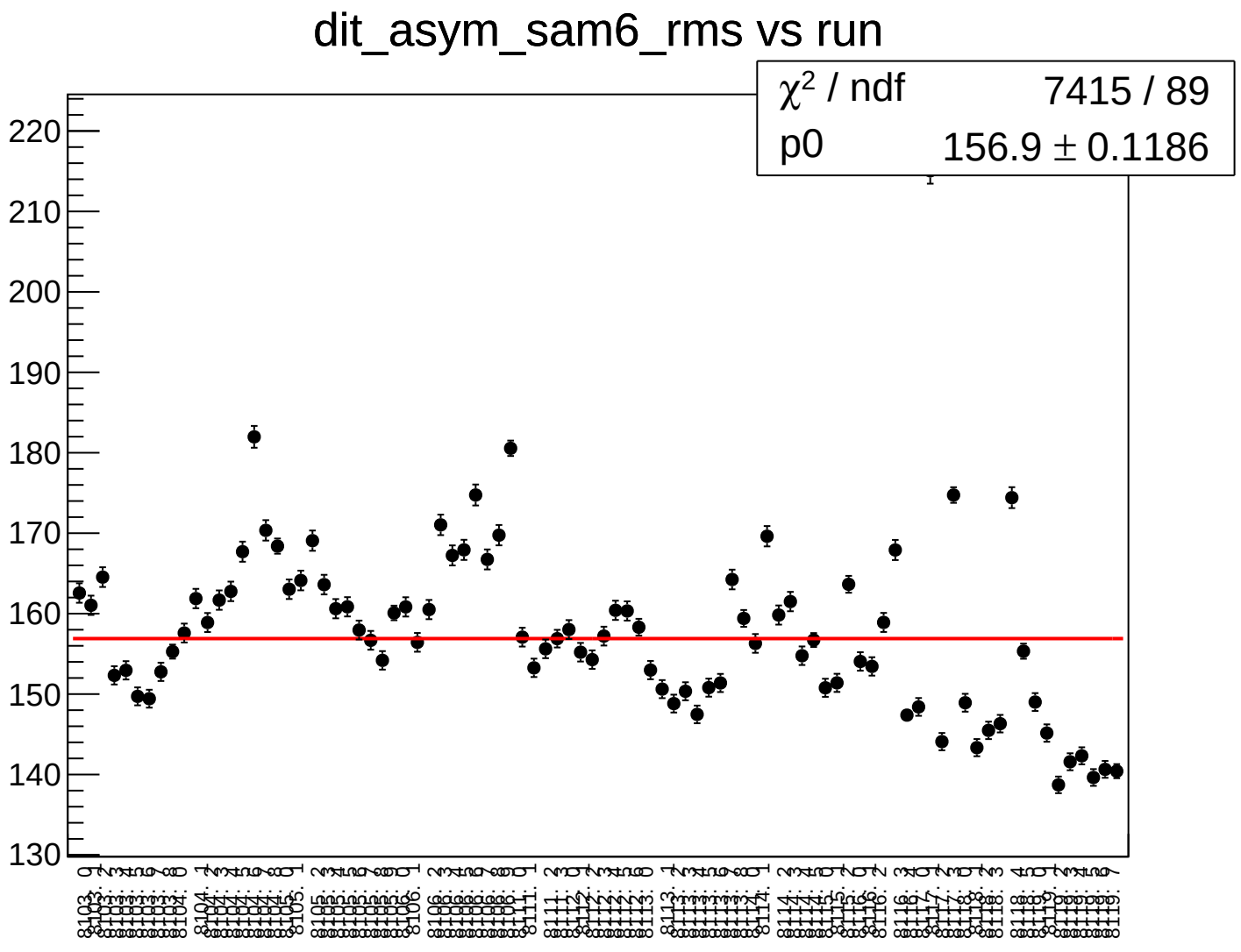

eigen_cor_asym_sam6_rms vs run
χ² / ndf 5627 / 89
p0 142.9 ± 0.1079
200
190
180
170
160
150
140
130

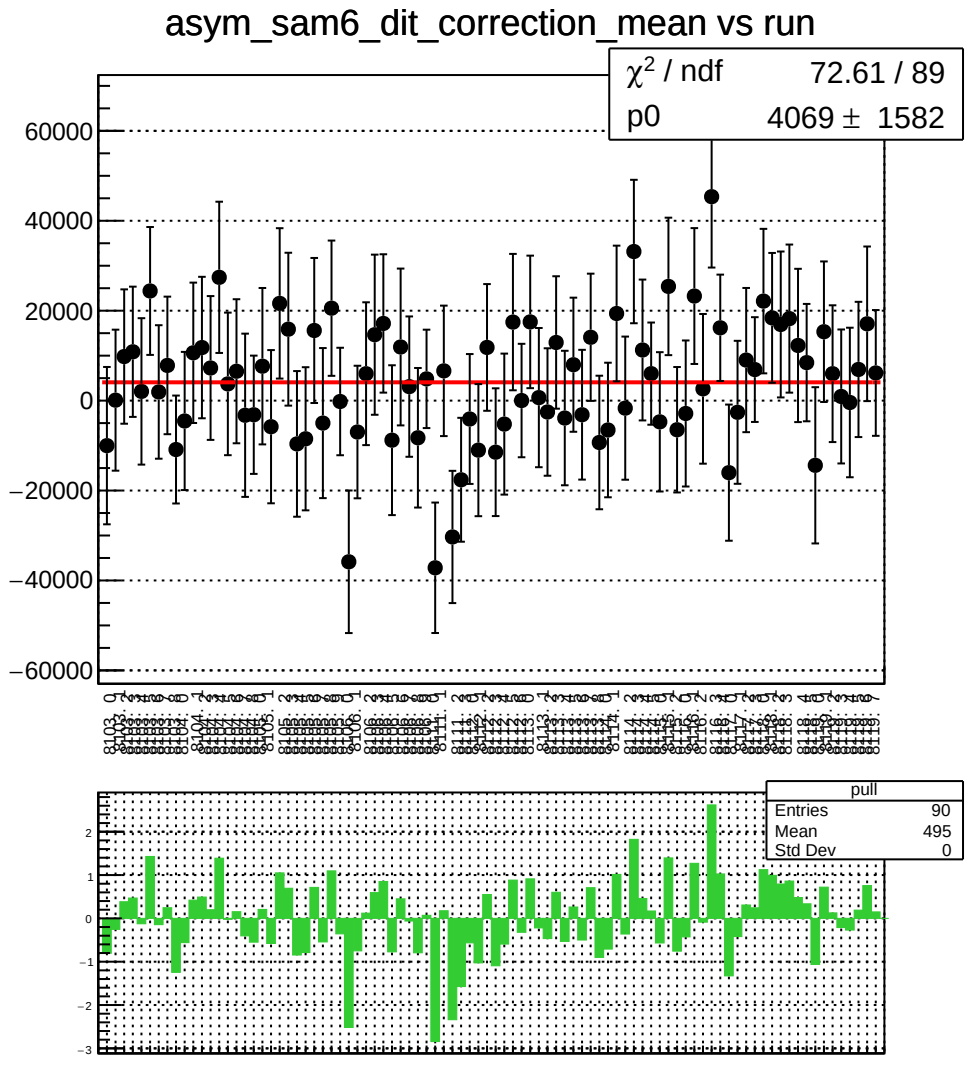

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 74.16 / 89
p0 3948 ± 1563
pull
Entries 90
Mean 369.4
Std Dev 0
pull1D
Entries 90
Mean 0.01145
Std Dev 0.9077

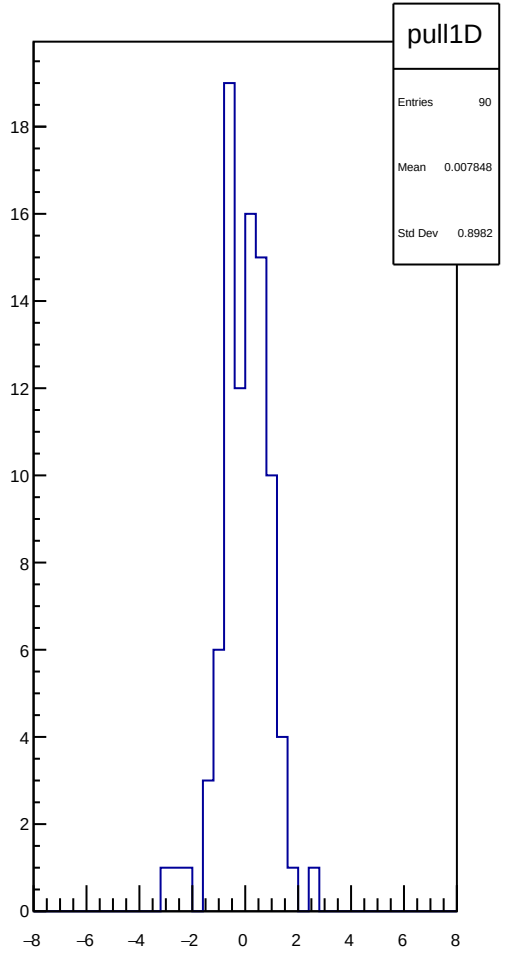

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 6612 / 89
p0 1463 ± 1.105
1700
1650
1600
1550
1500
1450
1400
1350
1300

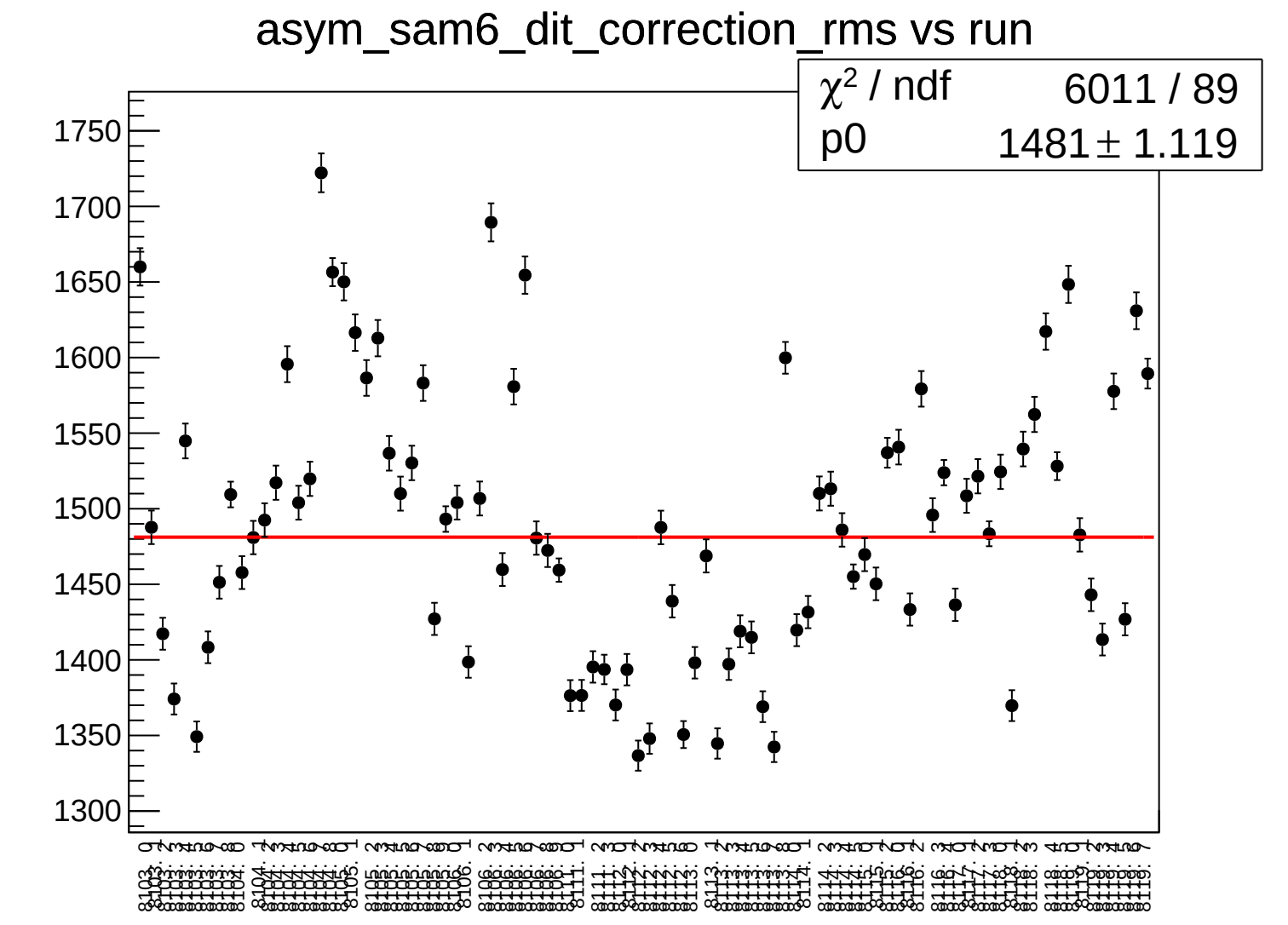

dit_asym_sam6_mean vs run
χ² / ndf 69.8 / 89
p0 91.79 ± 167.7
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −252.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

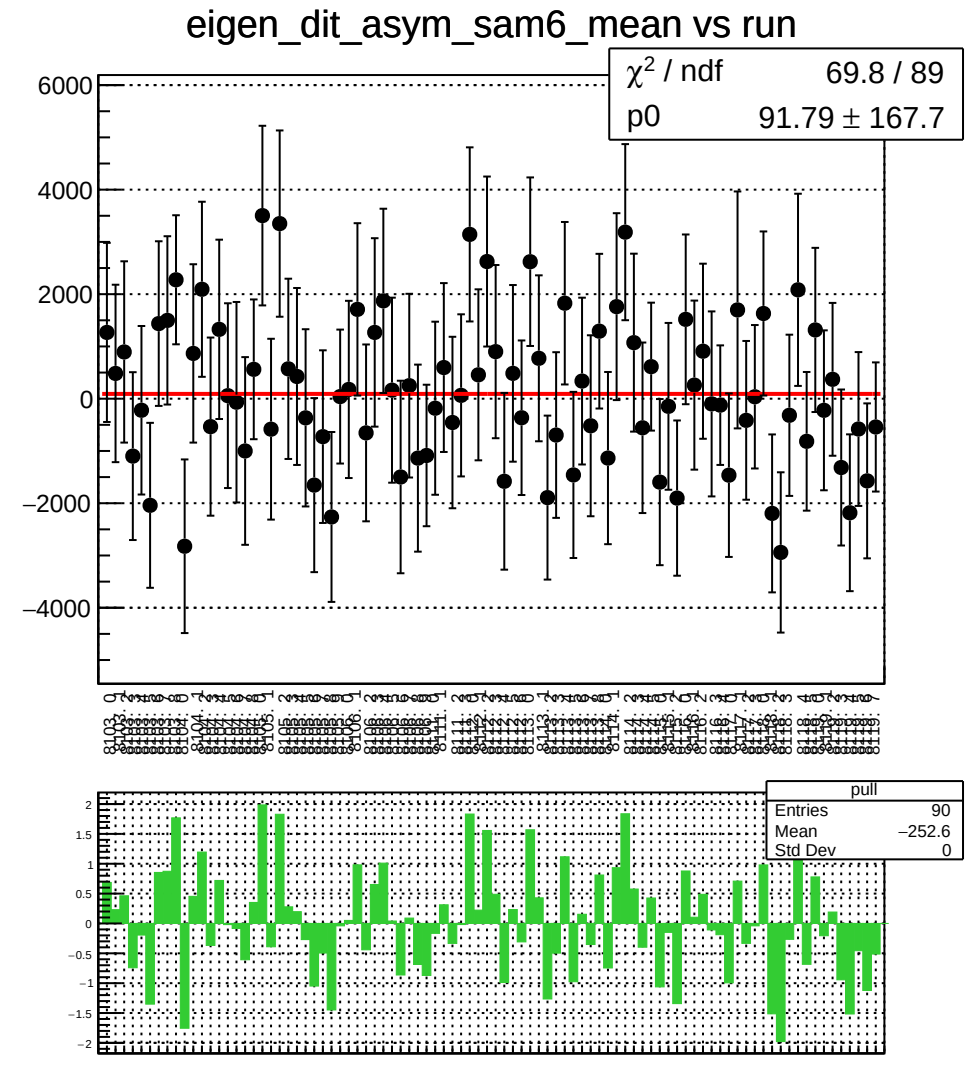

pull1D
Entries 90
Mean 0.01432
Std Dev 0.8805
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

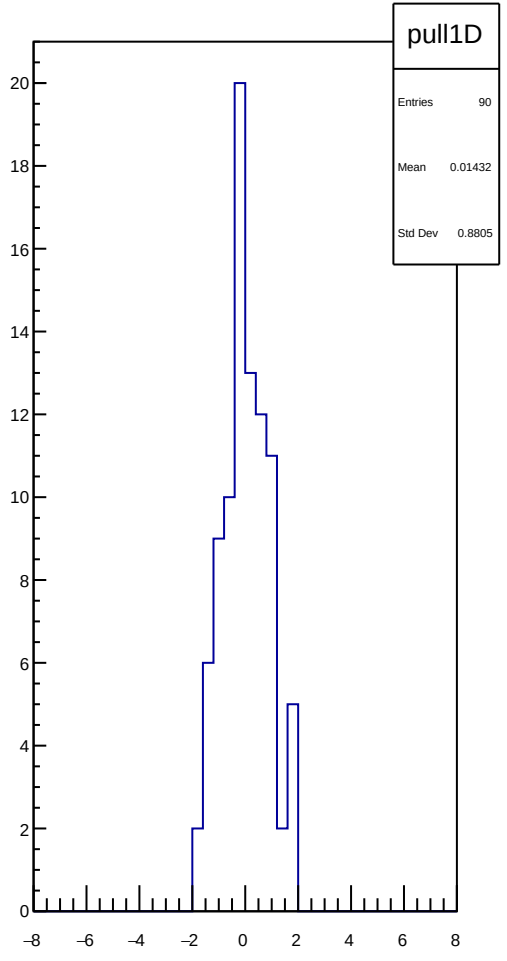

dit_asym_sam6_rms vs run
χ² / ndf 7415 / 89
p0 156.9 ± 0.1186
220
210
200
190
180
170
160
150
140
130

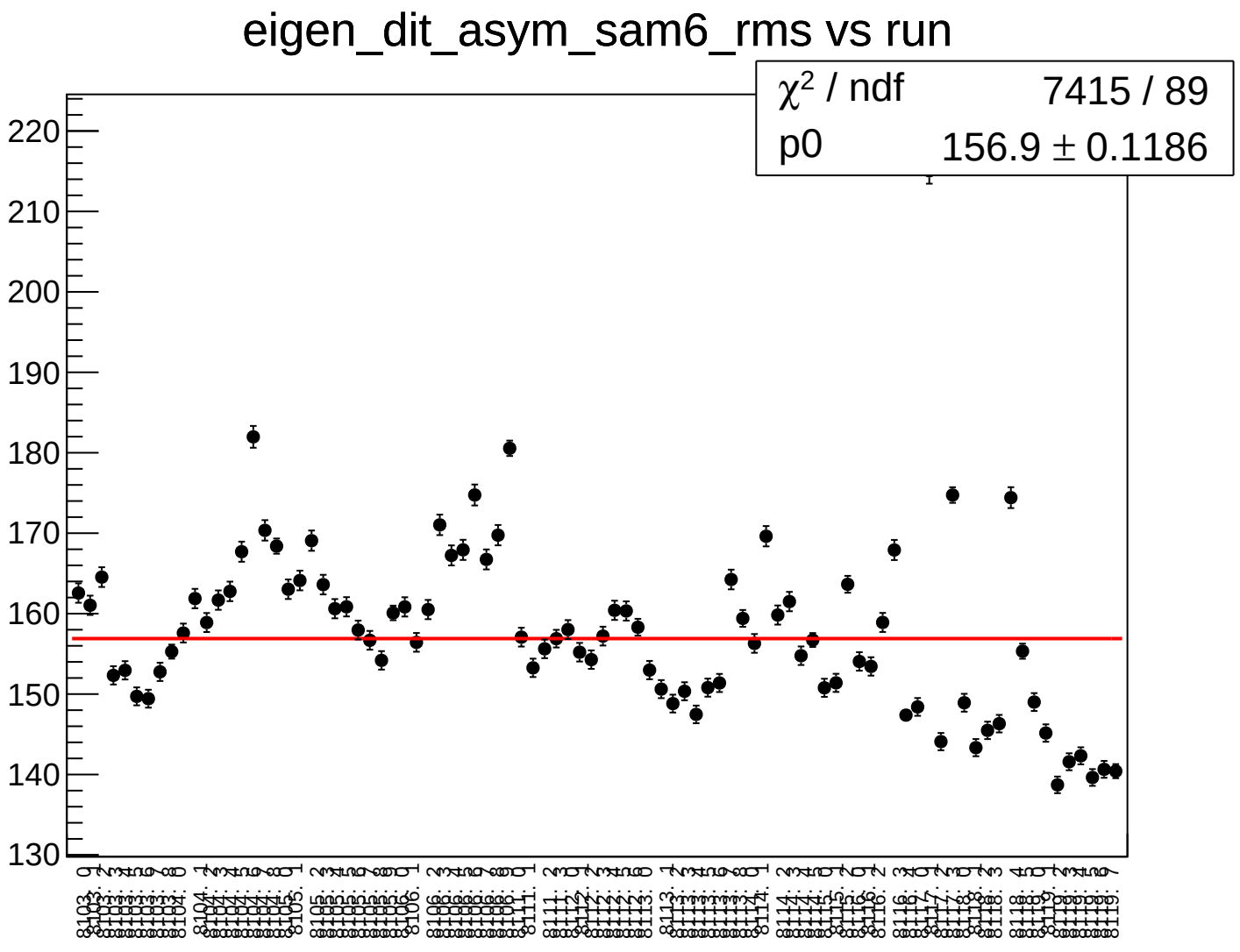

asym_sam6_dit_correction_mean vs run
χ² / ndf 72.61 / 89
p0 4069 ± 1582
pull
Entries 90
Mean 495
Std Dev 0

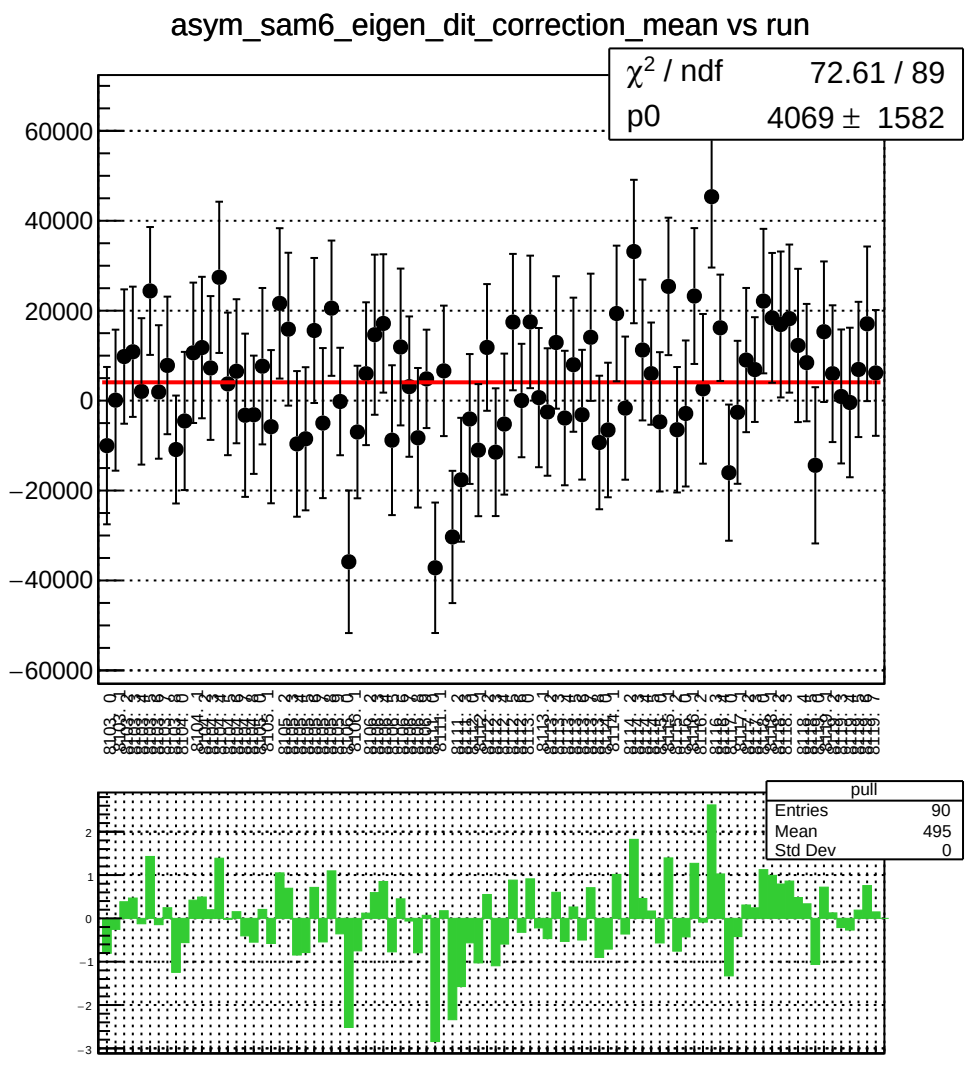

pull1D
Entries 90
Mean 0.007848
Std Dev 0.8982

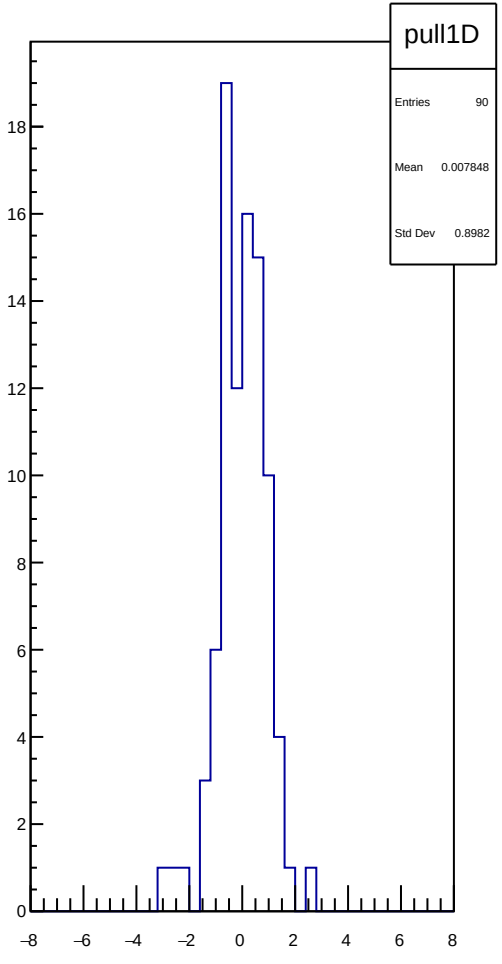

asym_sam6_dit_correction_rms vs run
χ² / ndf 6011 / 89
p0 1481 ± 1.119
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

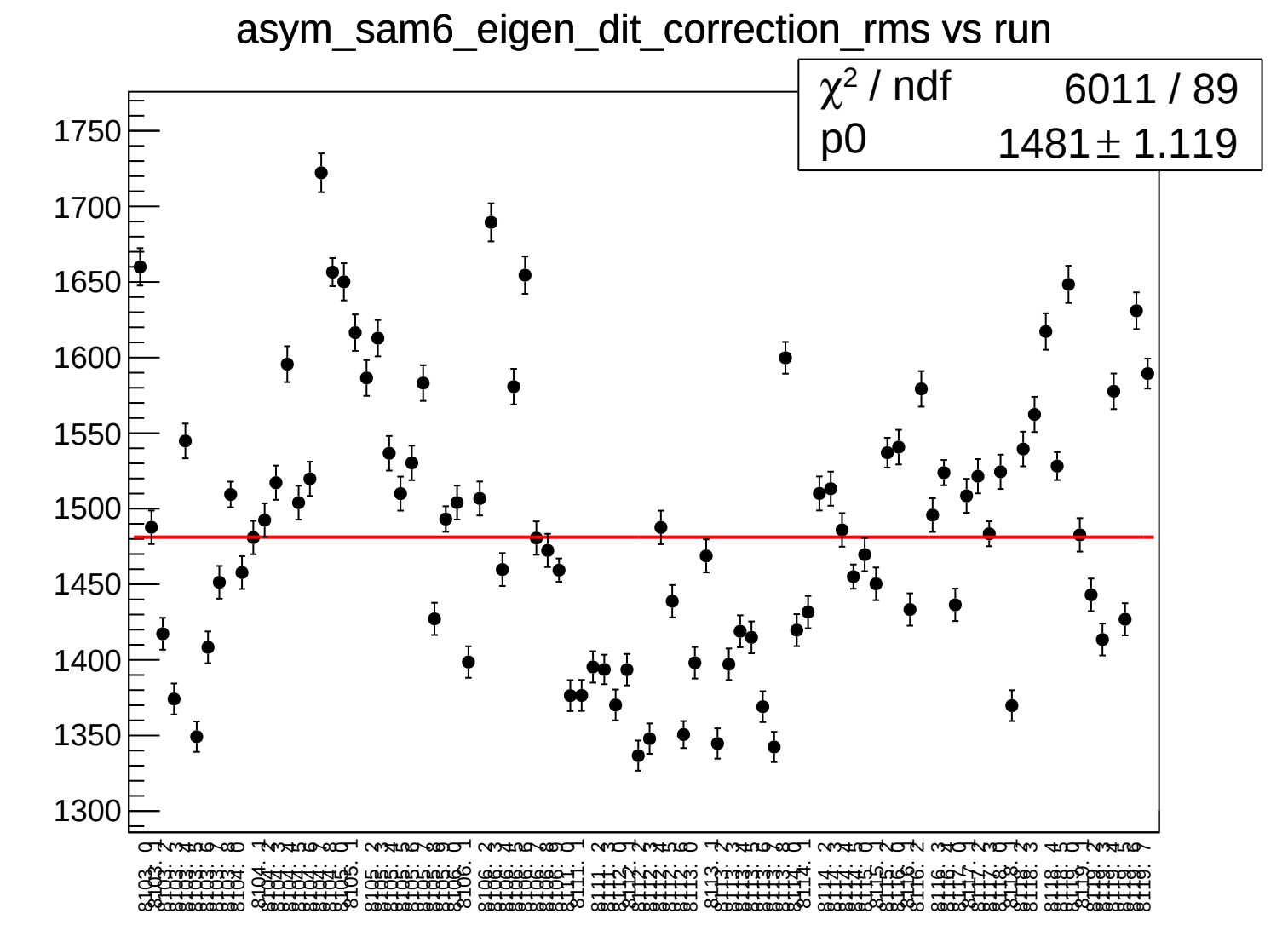

eigen_dit_asym_sam6_mean vs run
χ² / ndf 69.8 / 89
p0 91.79 ± 167.7
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −252.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

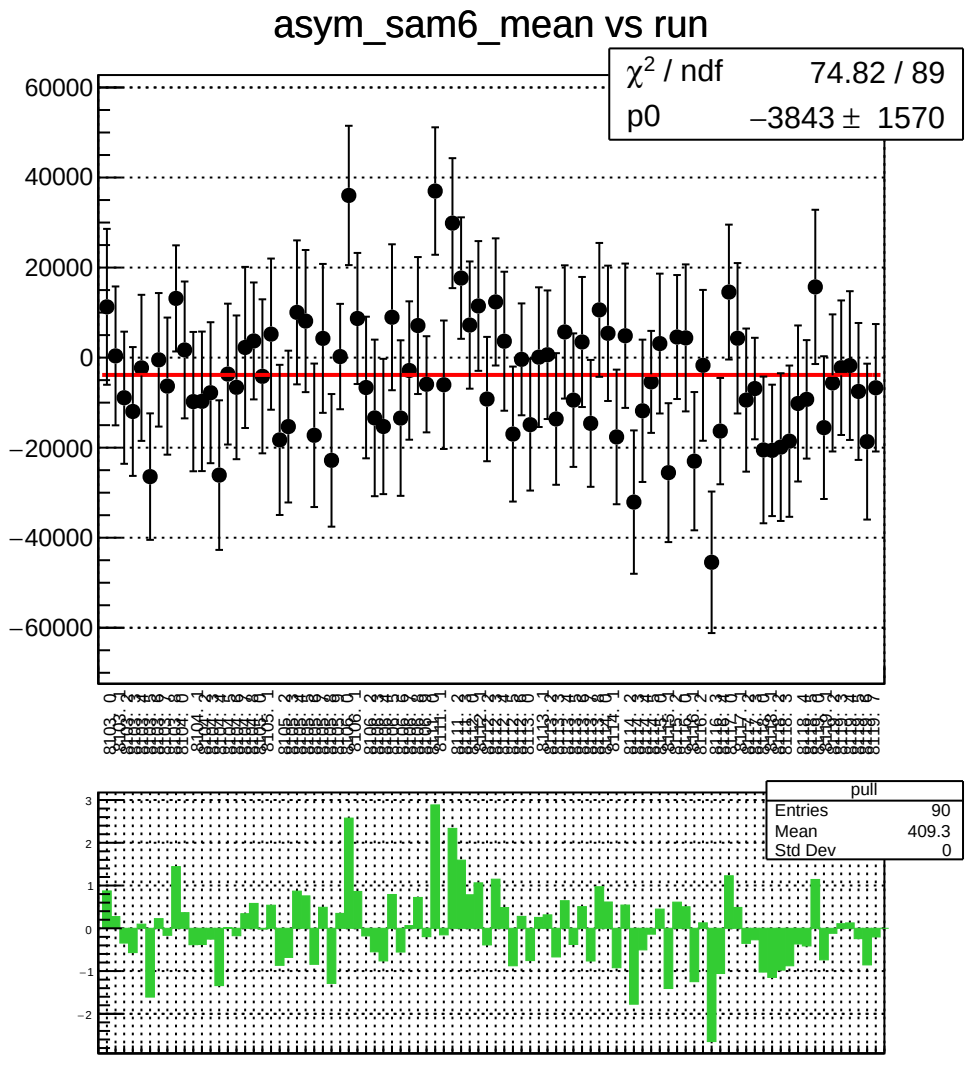

pull1D
Entries 90
Mean 0.01432
Std Dev 0.8805
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

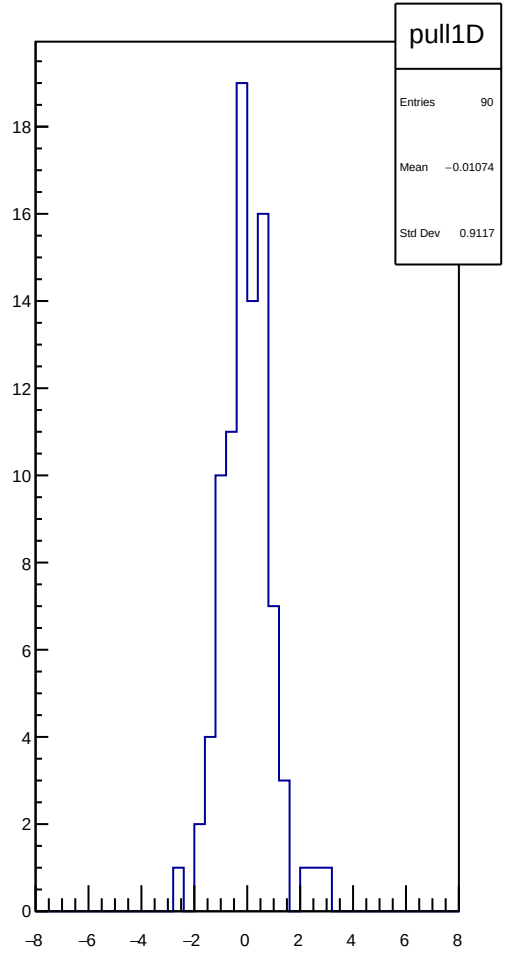

eigen_dit_asym_sam6_rms vs run
χ² / ndf 7415 / 89
p0 156.9 ± 0.1186
220
210
200
190
180
170
160
150
140
130

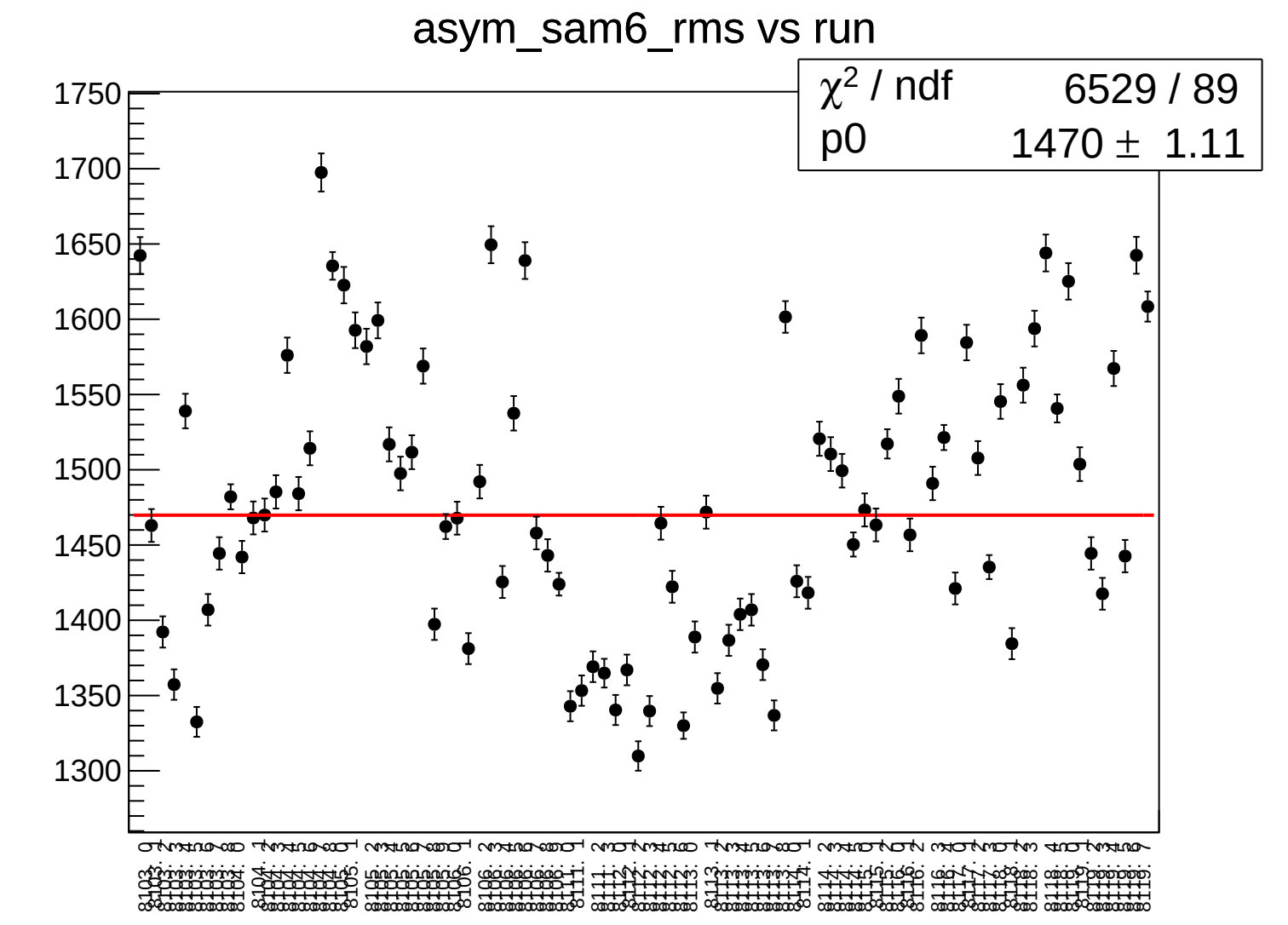

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 72.61 / 89
p0 4069 ± 1582
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 495
Std Dev 0
2
1
0
−1
−2
−3

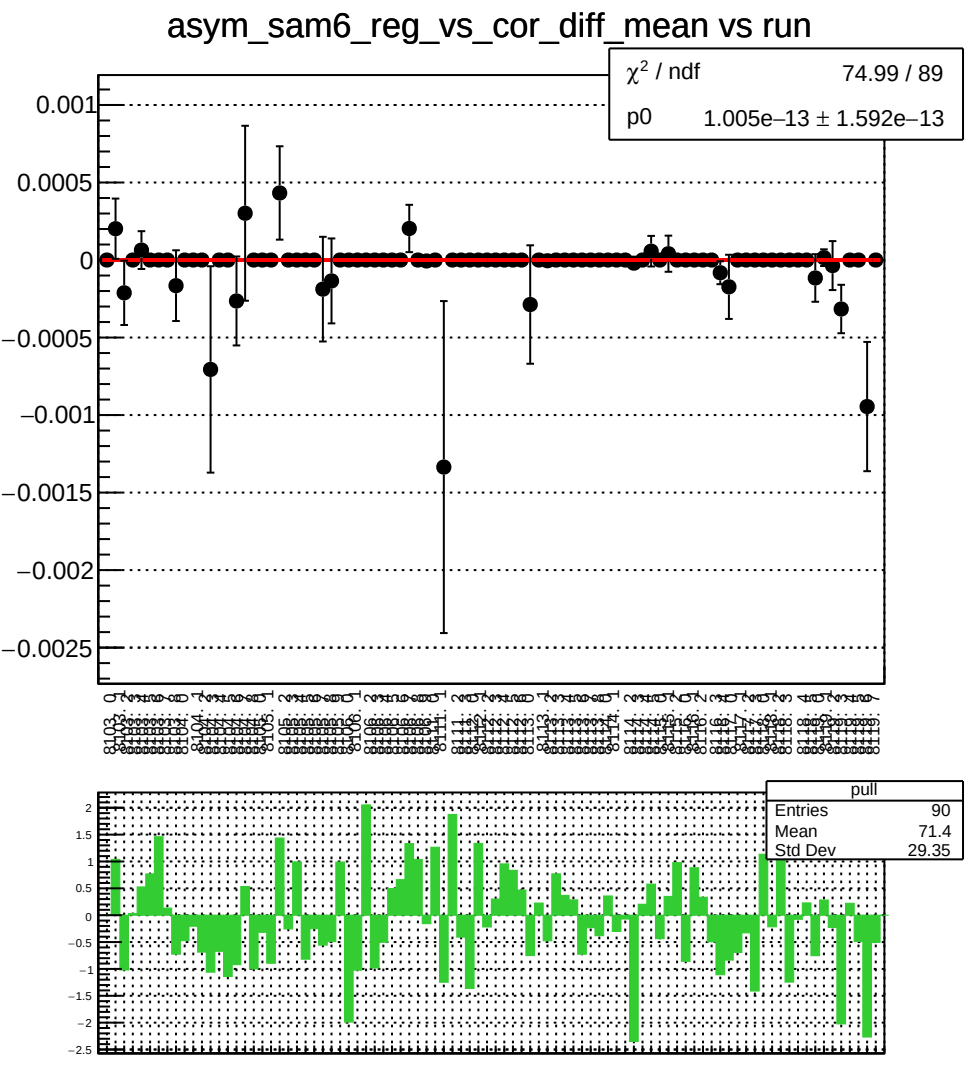

pull1D
Entries 90
Mean 0.007848
Std Dev 0.8982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

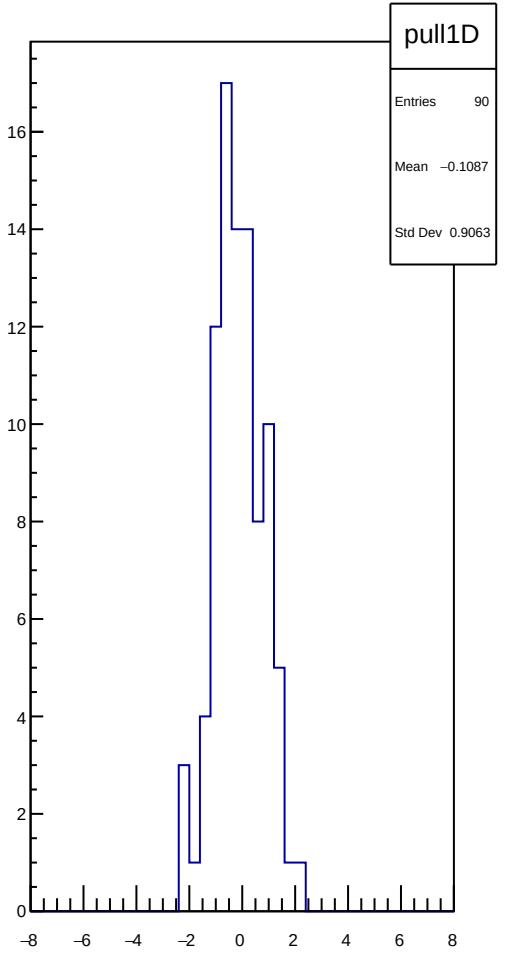

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 6011 / 89
p0 1481 ± 1.119
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

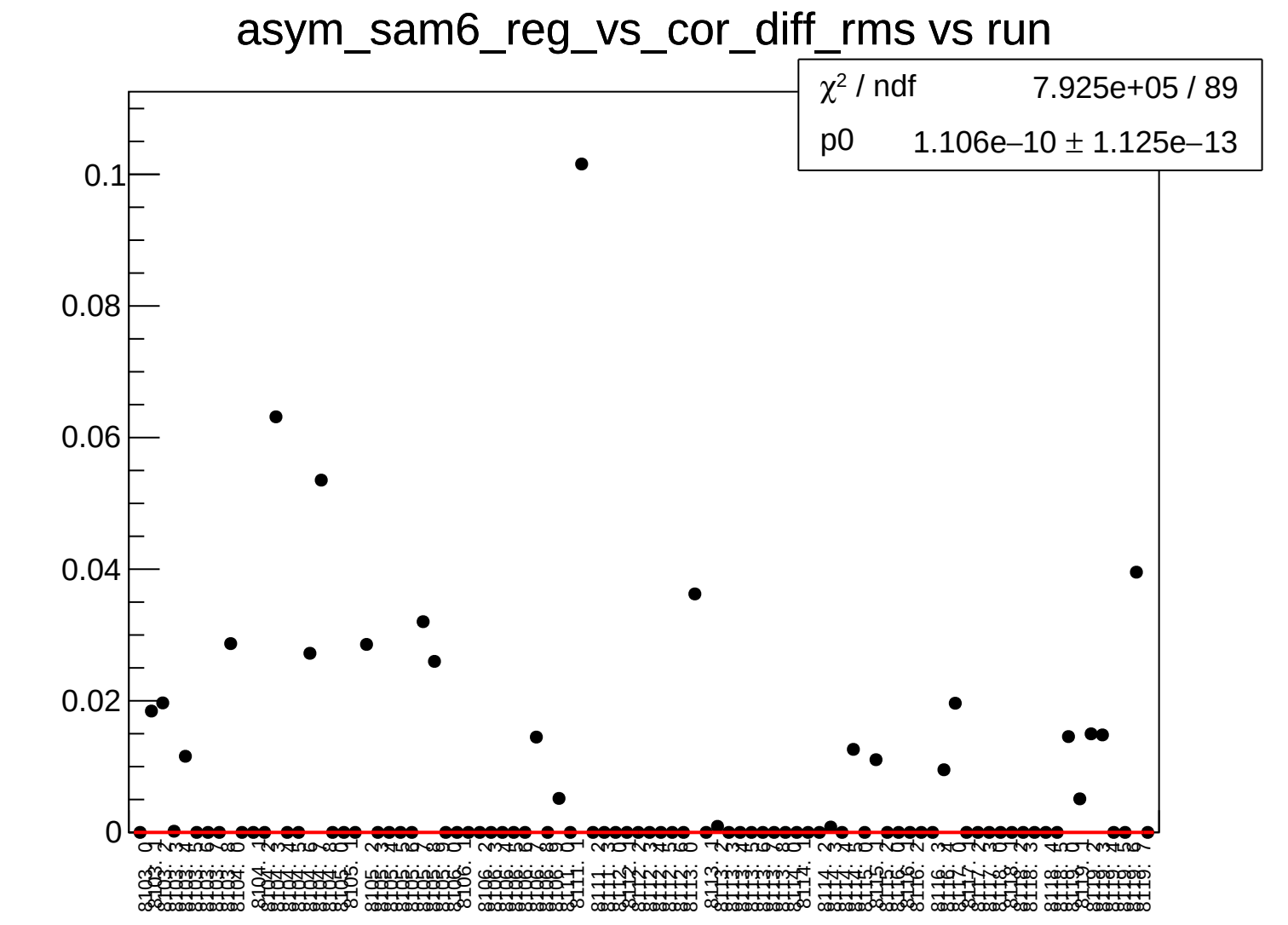

asym_sam6_mean vs run
χ² / ndf 74.82 / 89
p0 −3843 ± 1570
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 409.3
Std Dev 0
3
2
1
0
−1
−2

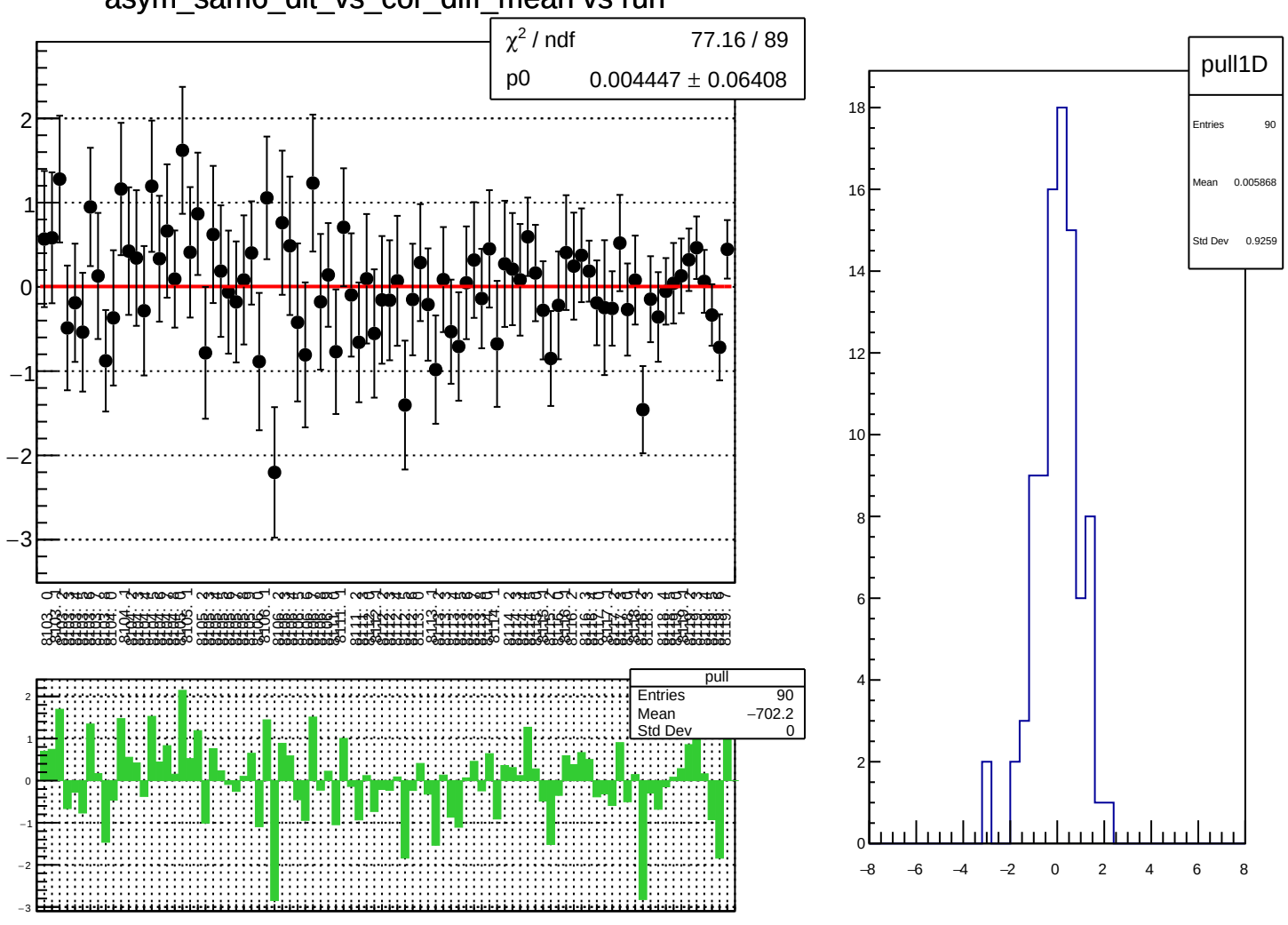

pull1D
Entries 90
Mean −0.01074
Std Dev 0.9117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

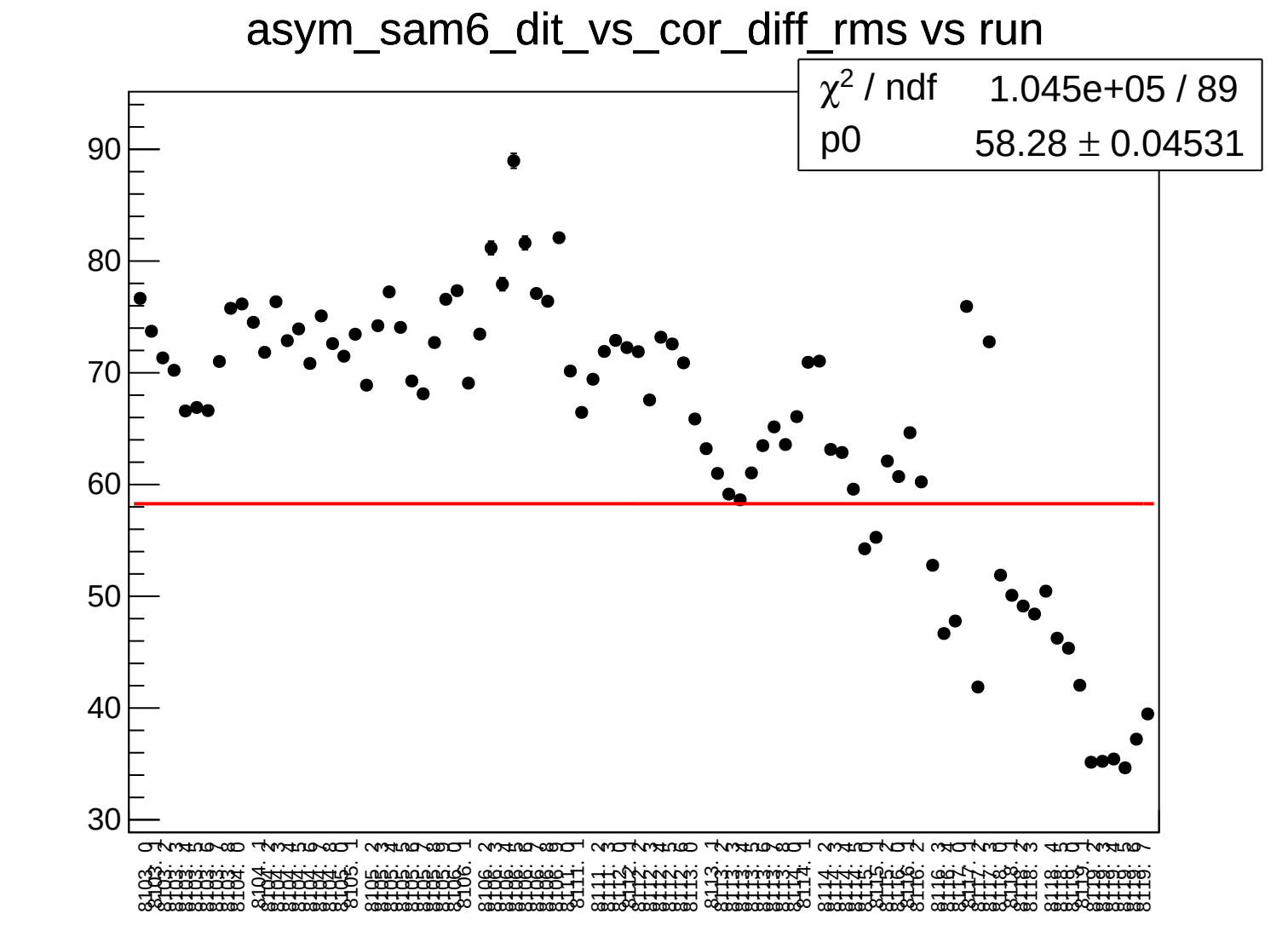

asym_sam6_rms vs run
χ² / ndf 6529 / 89
p0 1470 ± 1.11
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300

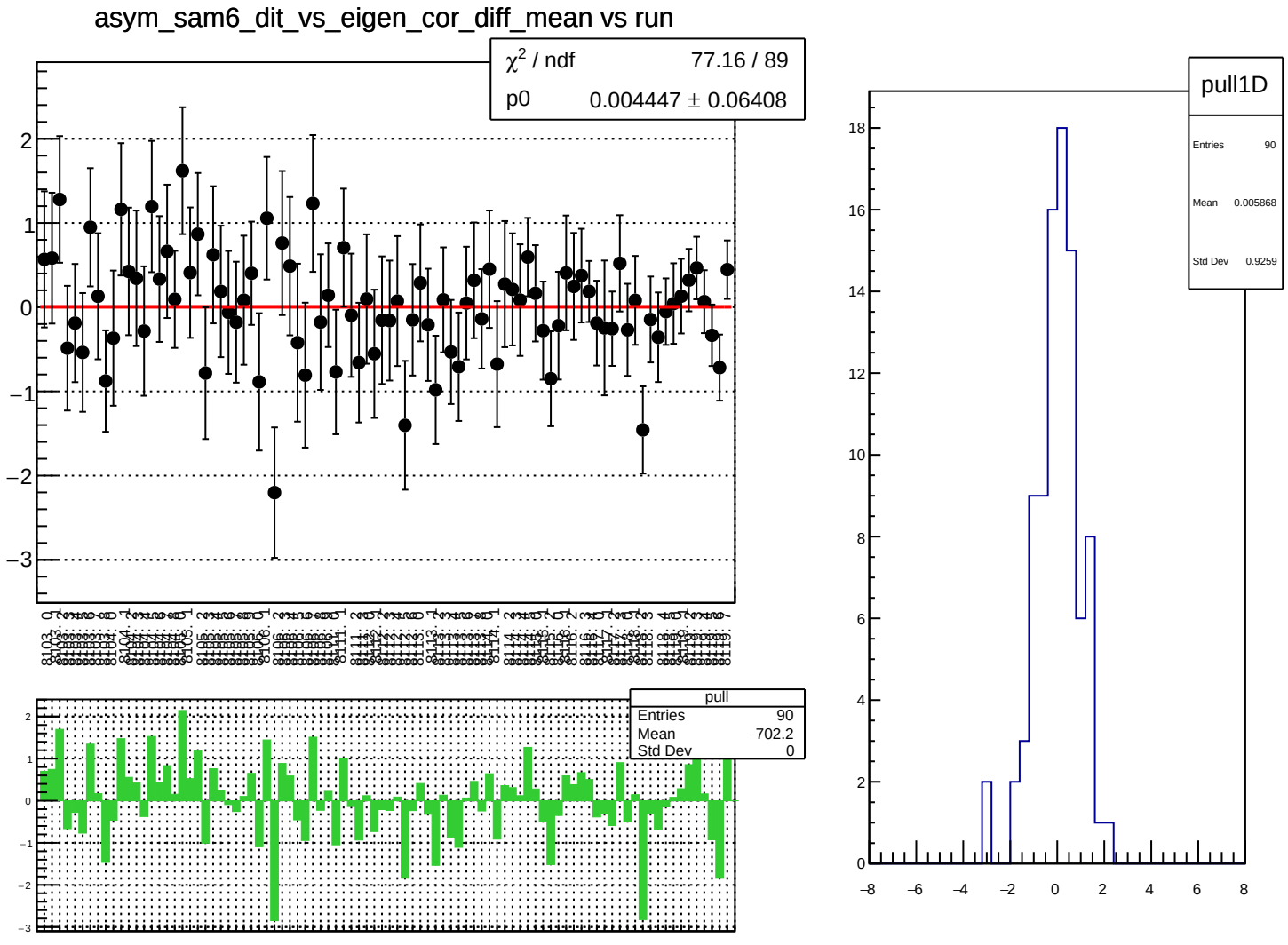

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 74.99 / 89
p0 1.005e−13 ± 1.592e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 90
Mean 71.4
Std Dev 29.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

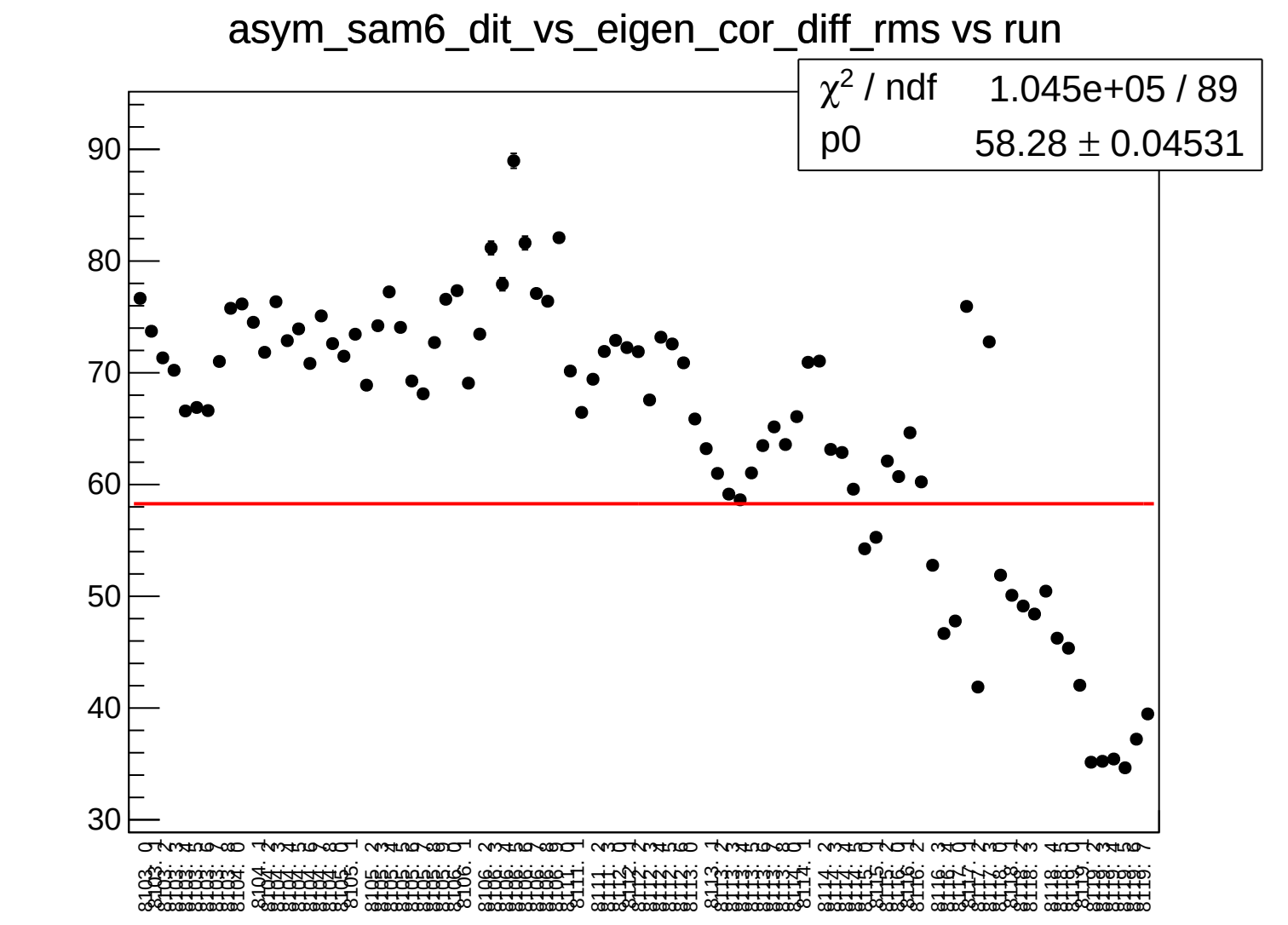

pull1D
Entries 90
Mean −0.1087
Std Dev 0.9063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

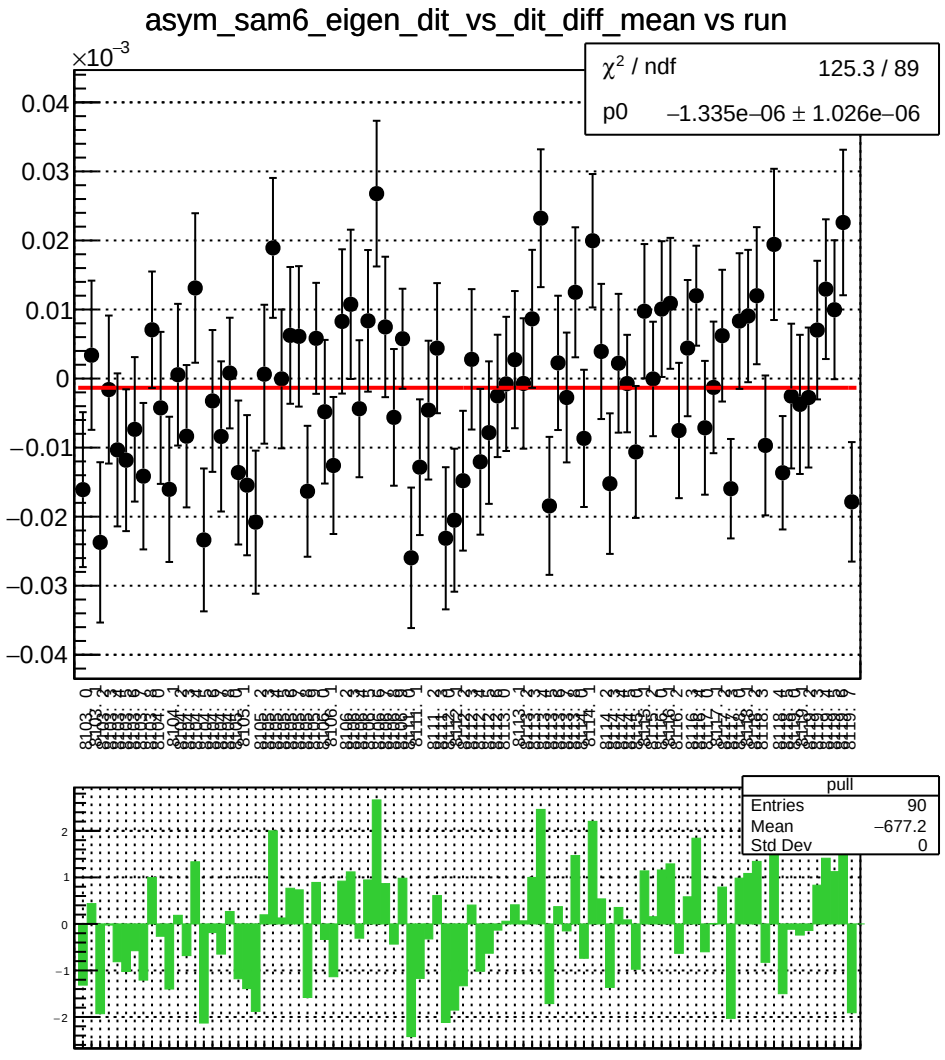

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 7.925e+05 / 89
p0 1.106e−10 ± 1.125e−13
0.1
0.08
0.06
0.04
0.02
0

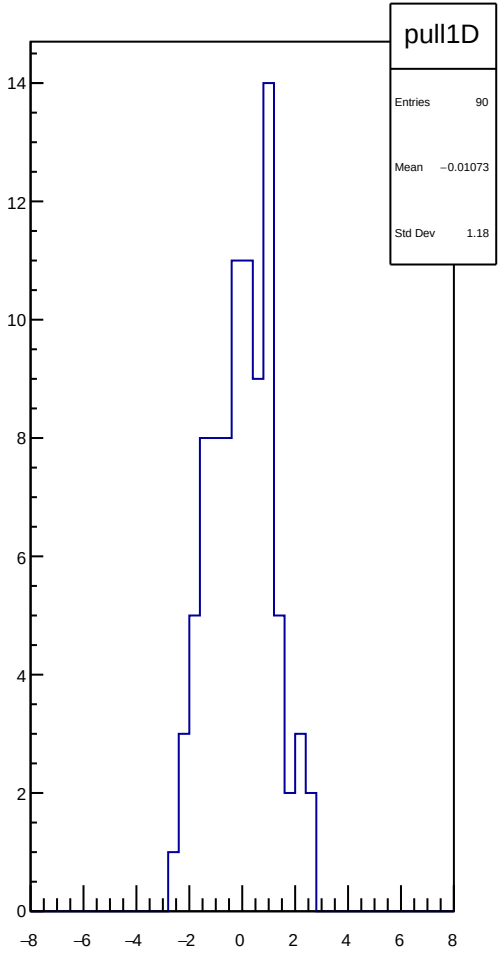

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 77.16 / 89
p0 0.004447 ± 0.06408
pull
Entries 90
Mean −702.2
Std Dev 0
pull1D
Entries 90
Mean 0.005868
Std Dev 0.9259

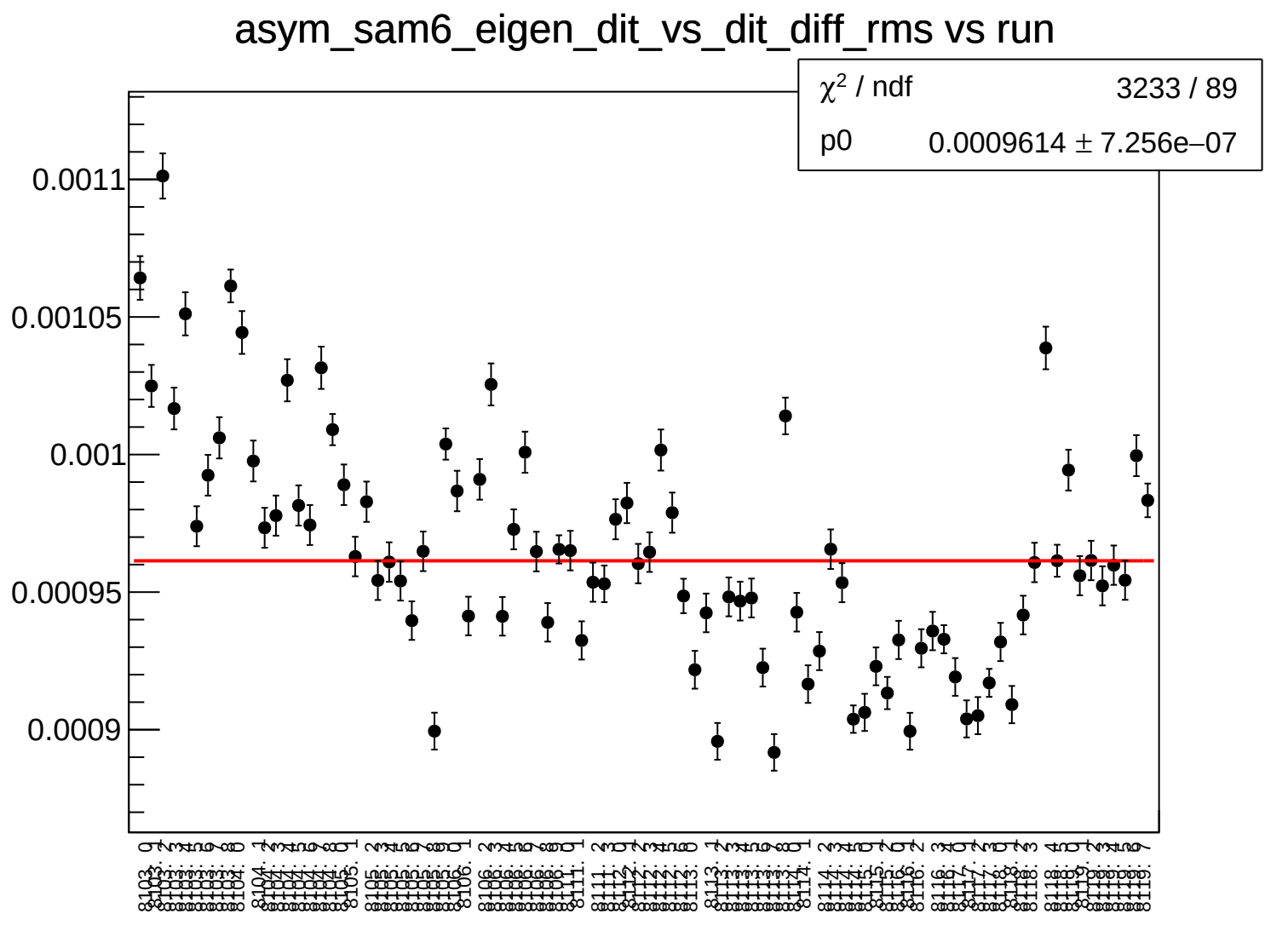

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.045e+05 / 89
p0 58.28 ± 0.04531
90
80
70
60
50
40
30

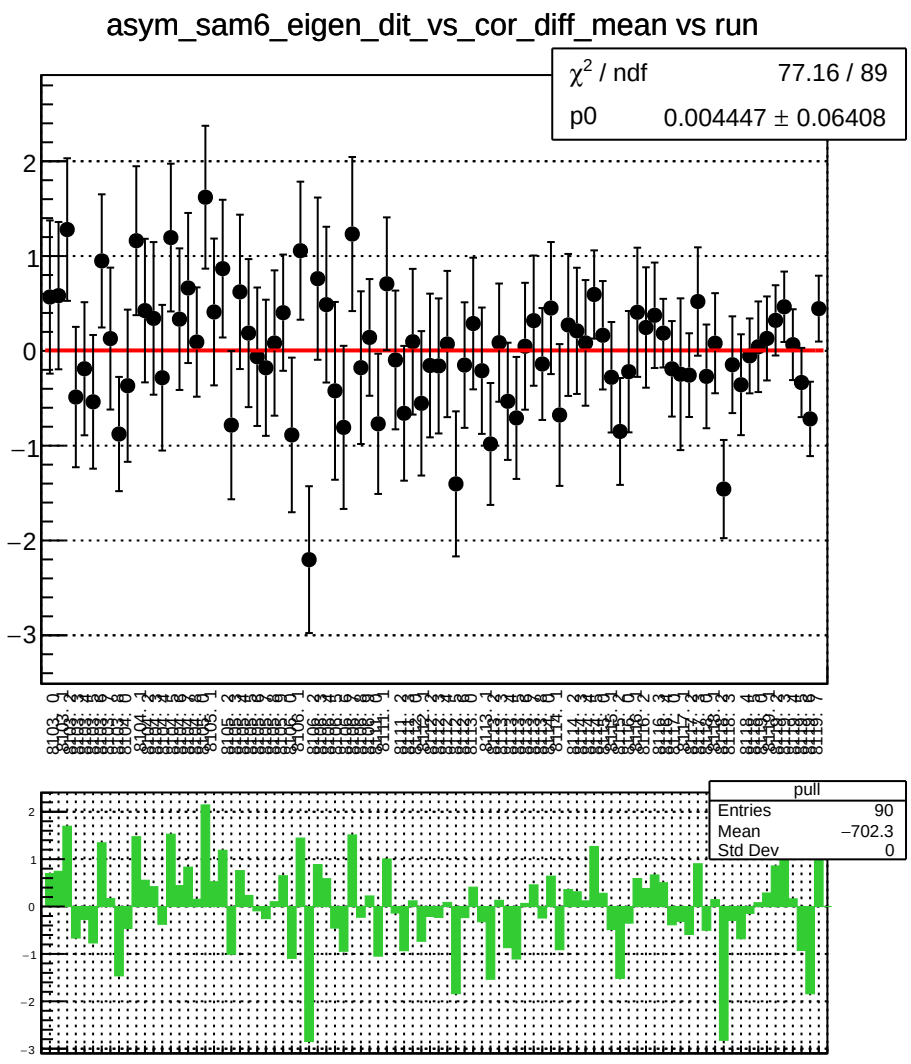

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.16 / 89
p0 0.004447 ± 0.06408
pull
Entries 90
Mean −702.2
Std Dev 0
pull1D
Entries 90
Mean 0.005868
Std Dev 0.9259

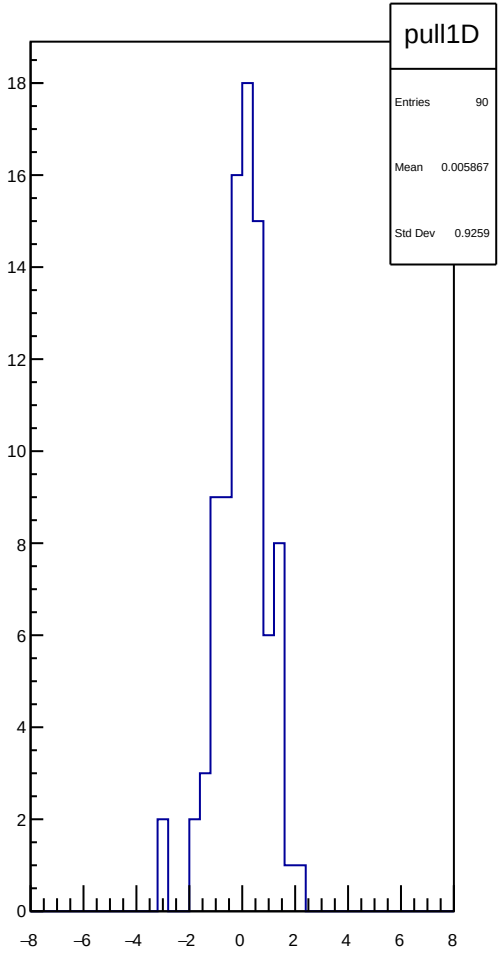

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.045e+05 / 89
p0 58.28 ± 0.04531
90
80
70
60
50
40
30

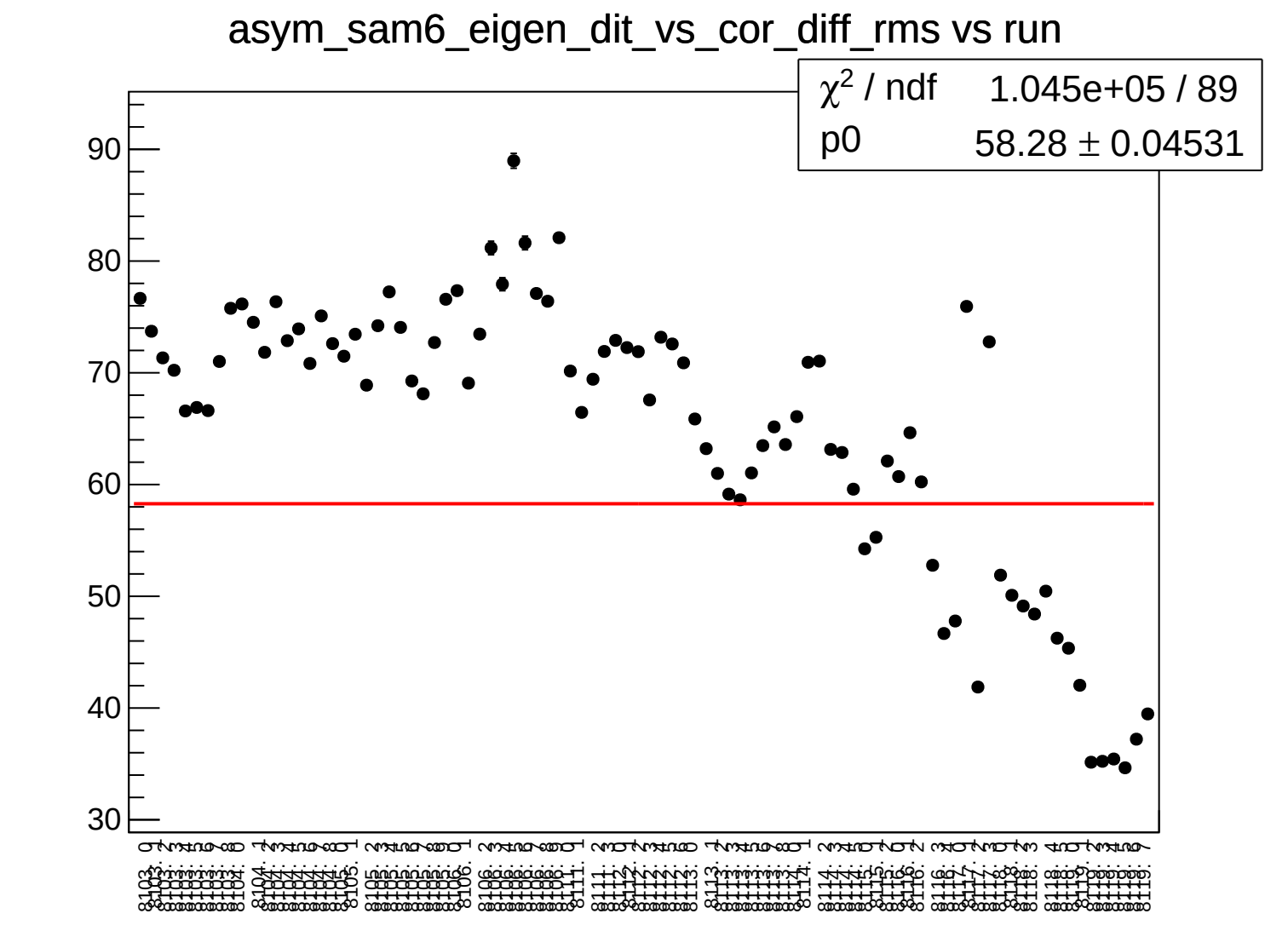

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 125.3 / 89
p0 −1.335e−06 ± 1.026e−06
pull
Entries 90
Mean −677.2
Std Dev 0

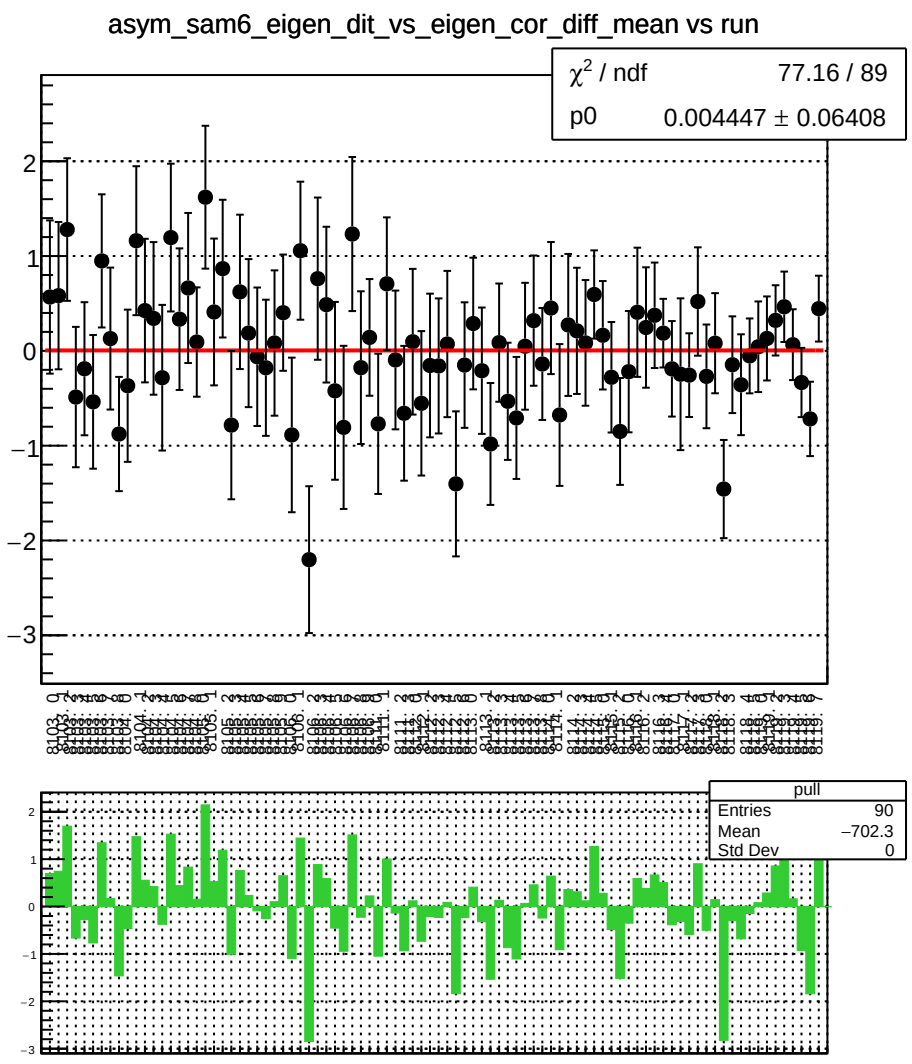

pull1D
Entries 90
Mean −0.01073
Std Dev 1.18

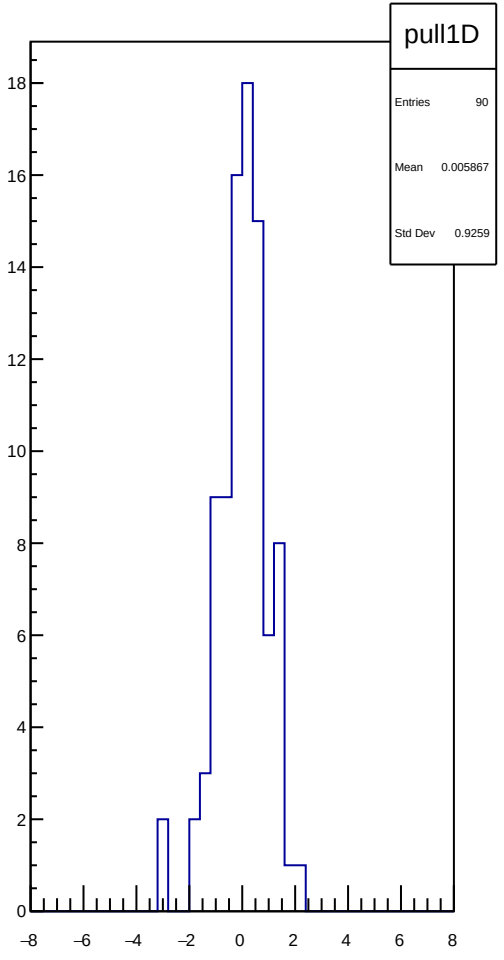

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3233 / 89
p0 0.0009614 ± 7.256e−07
0.0011
0.00105
0.001
0.00095
0.0009

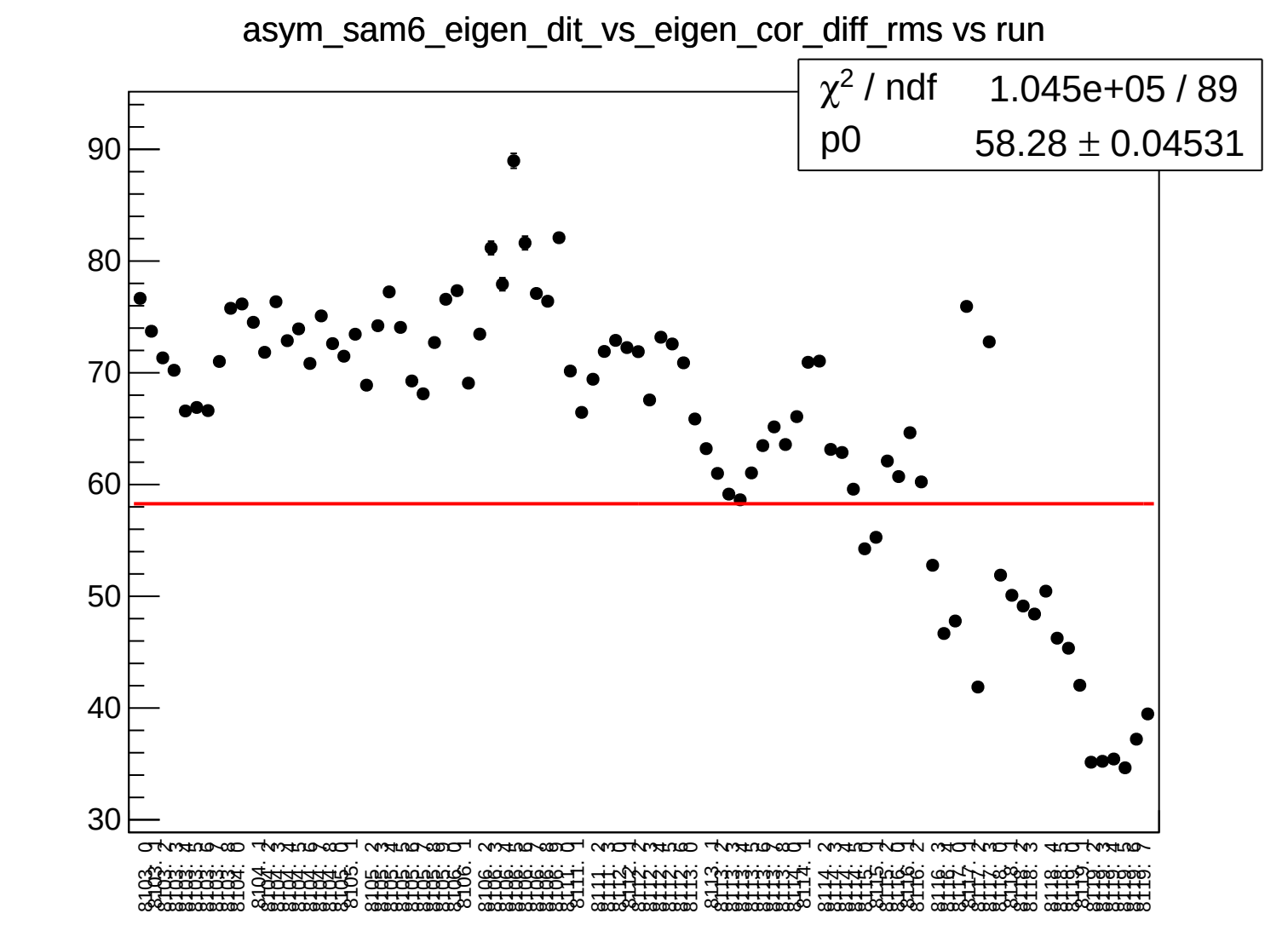

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.16 / 89
p0 0.004447 ± 0.06408
pull
Entries 90
Mean −702.3
Std Dev 0

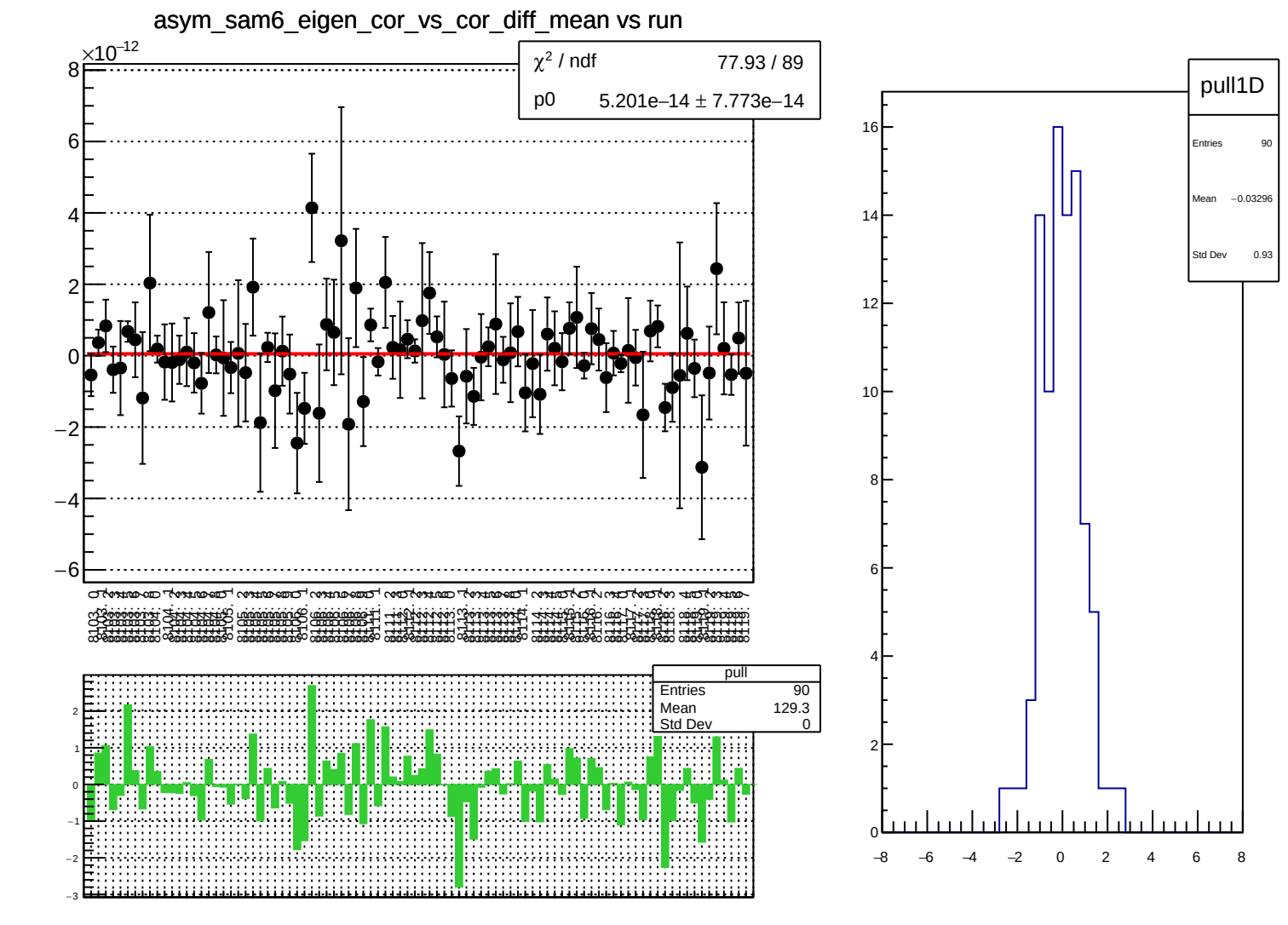

pull1D
Entries 90
Mean 0.005867
Std Dev 0.9259

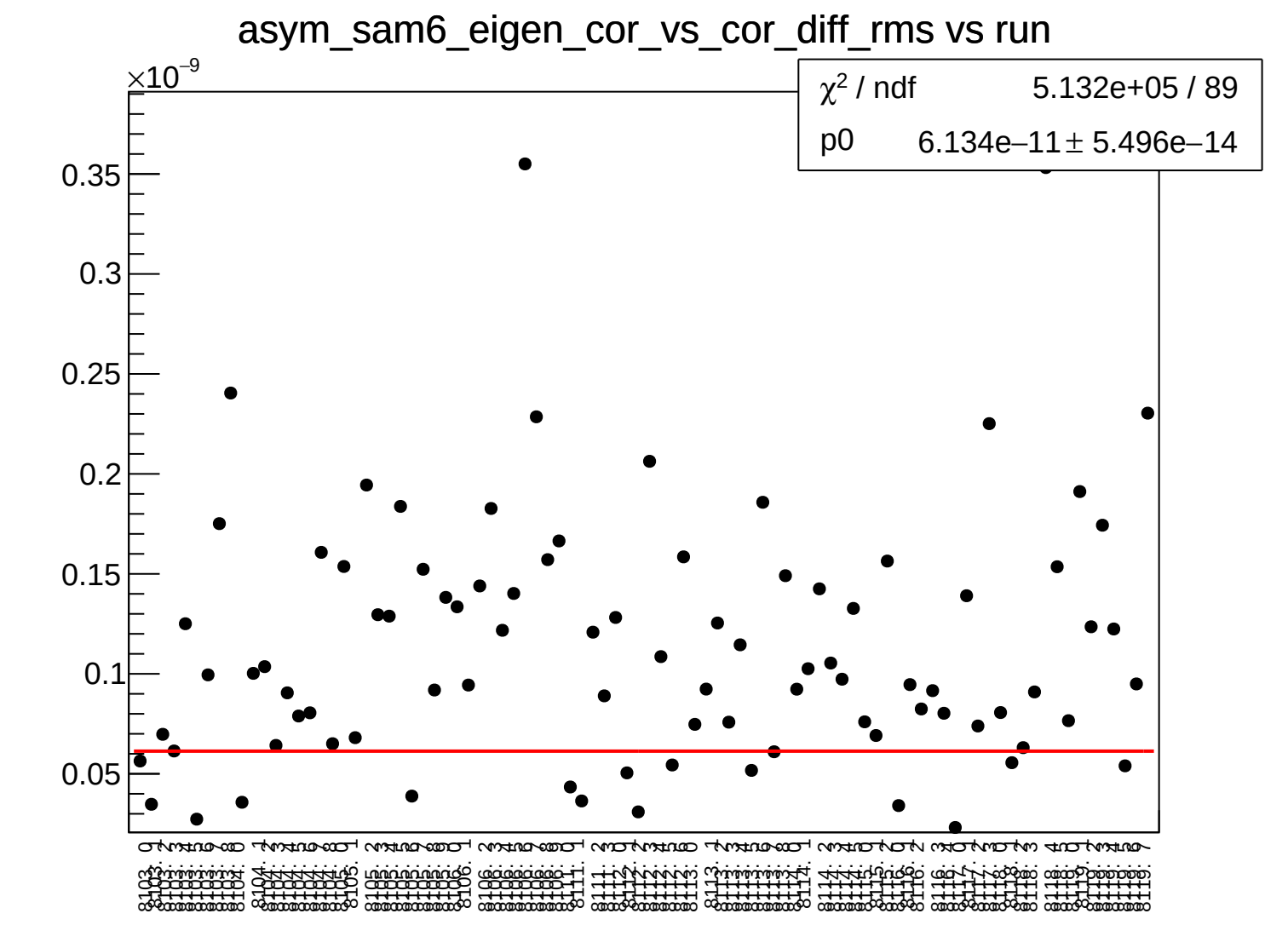

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.045e+05 / 89
p0 58.28 ± 0.04531
90
80
70
60
50
40
30

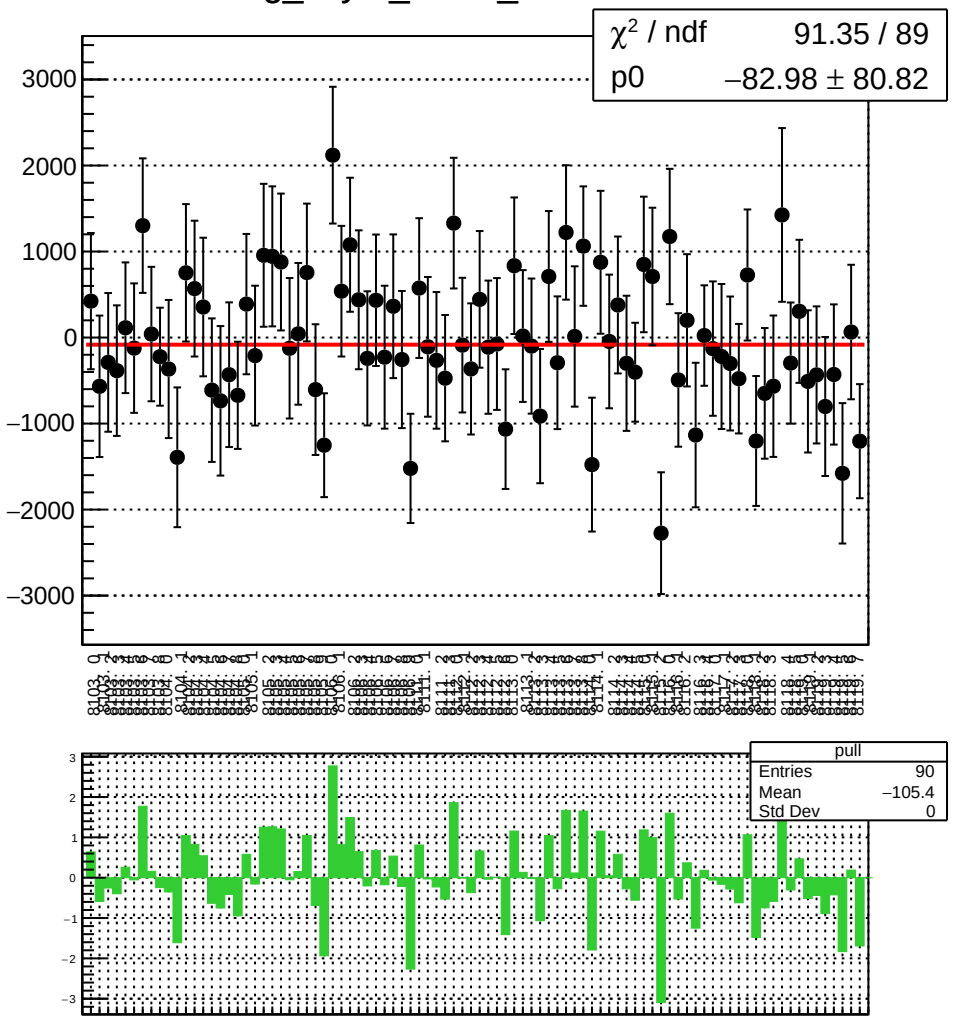

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.16 / 89
p0 0.004447 ± 0.06408
pull
Entries 90
Mean −702.3
Std Dev 0

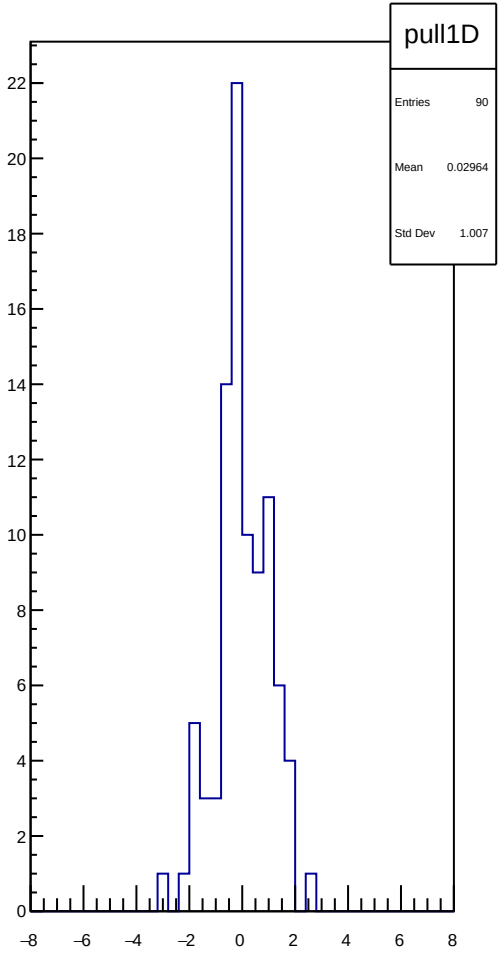

pull1D
Entries 90
Mean 0.005867
Std Dev 0.9259

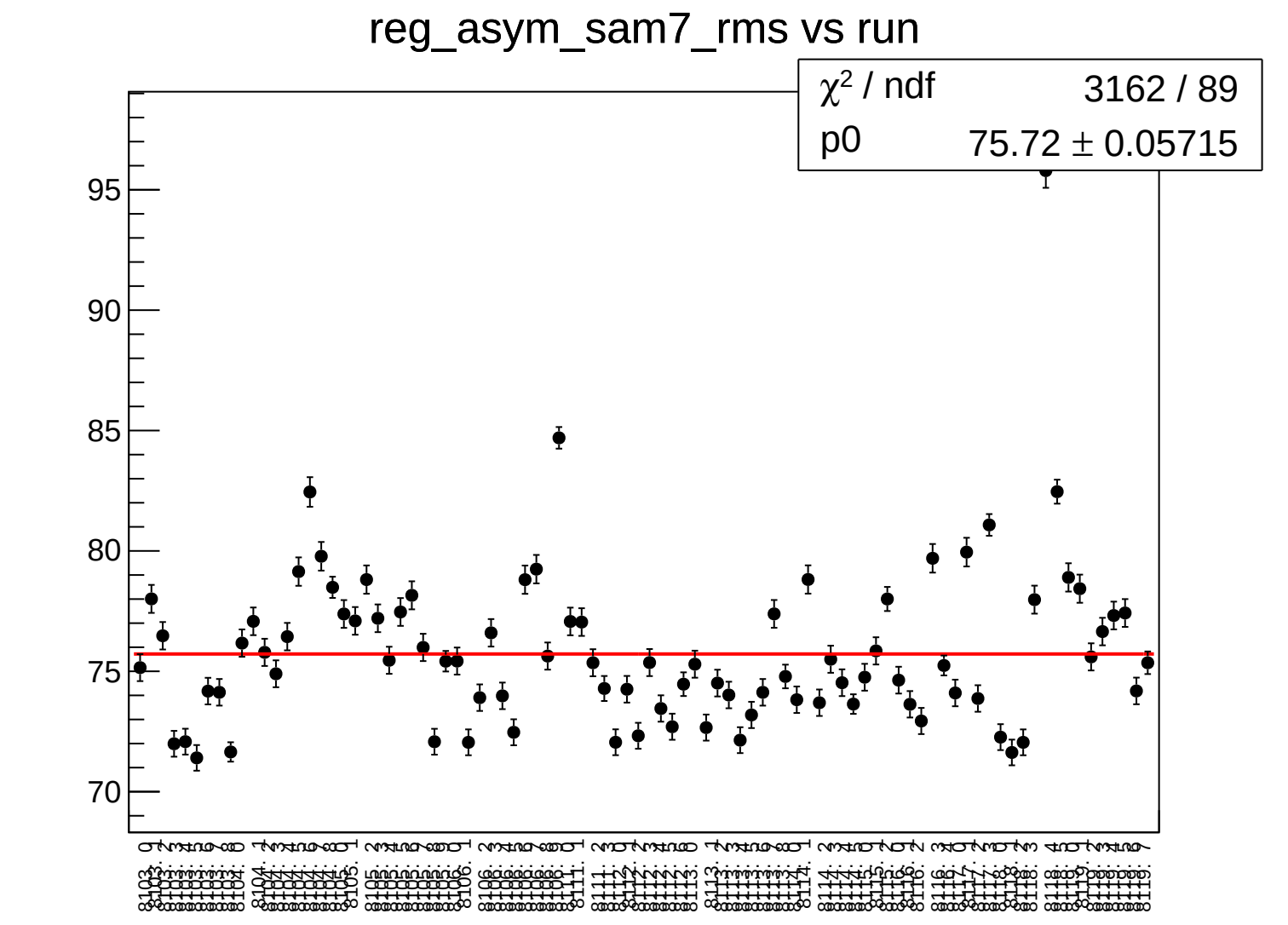

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.045e+05 / 89
p0 58.28 ± 0.04531
90
80
70
60
50
40
30

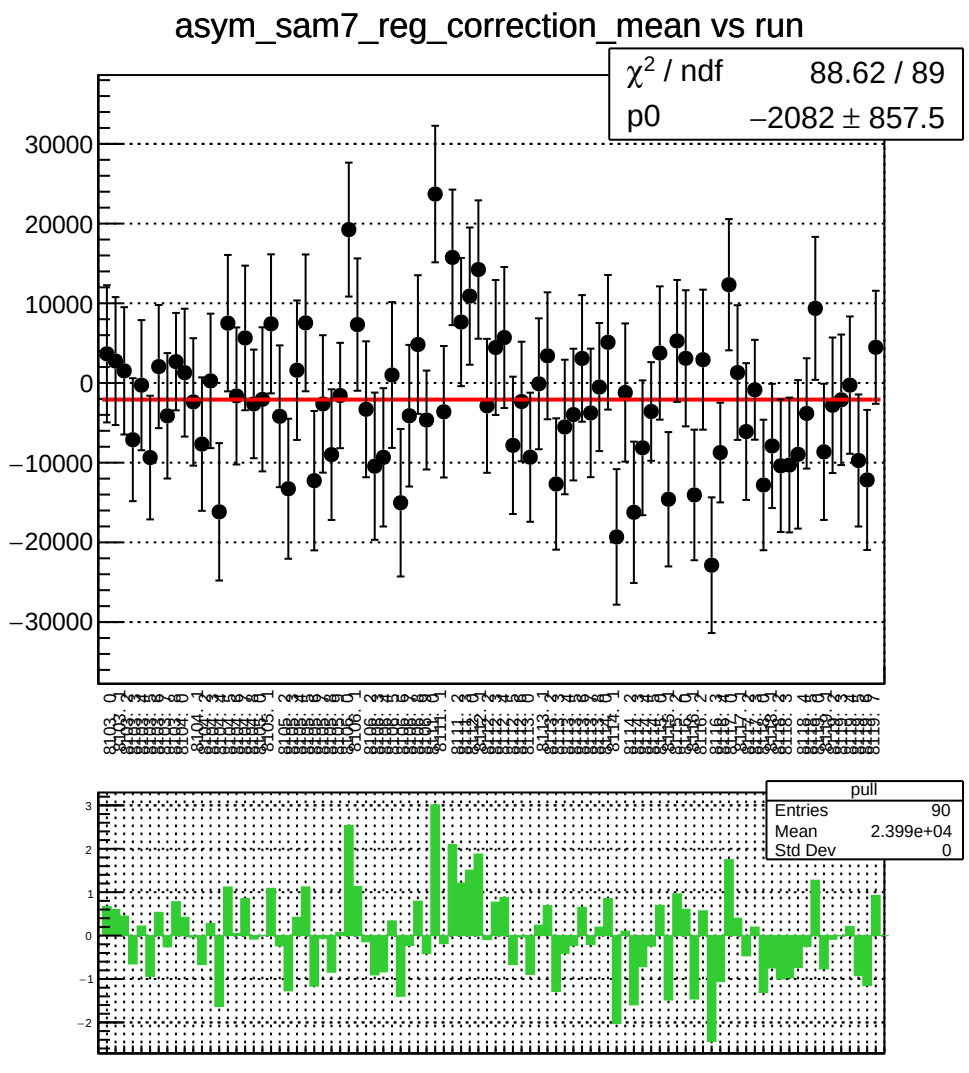

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.93 / 89
p0 5.201e−14 ± 7.773e−14
pull
Entries 90
Mean 129.3
Std Dev 0
pull1D
Entries 90
Mean −0.03296
Std Dev 0.93

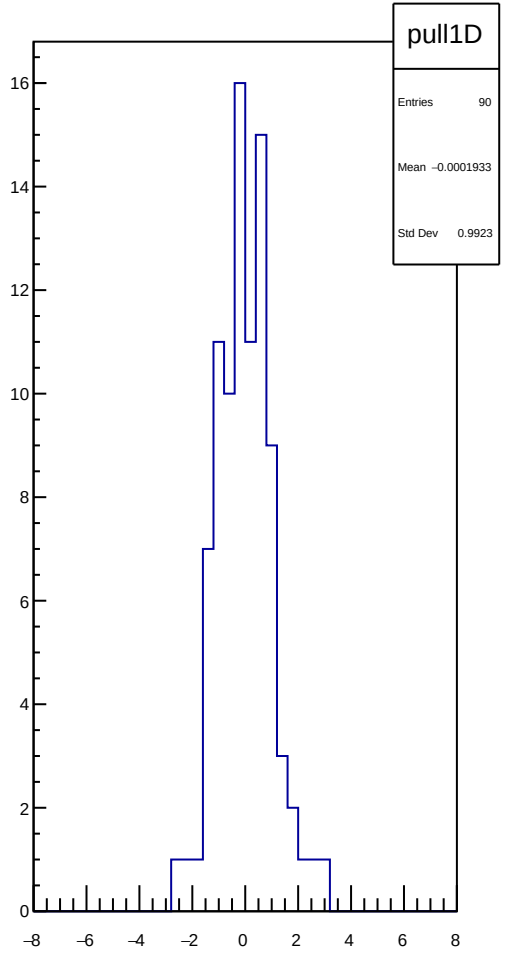

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.132e+05 / 89
p0 6.134e−11 ± 5.496e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

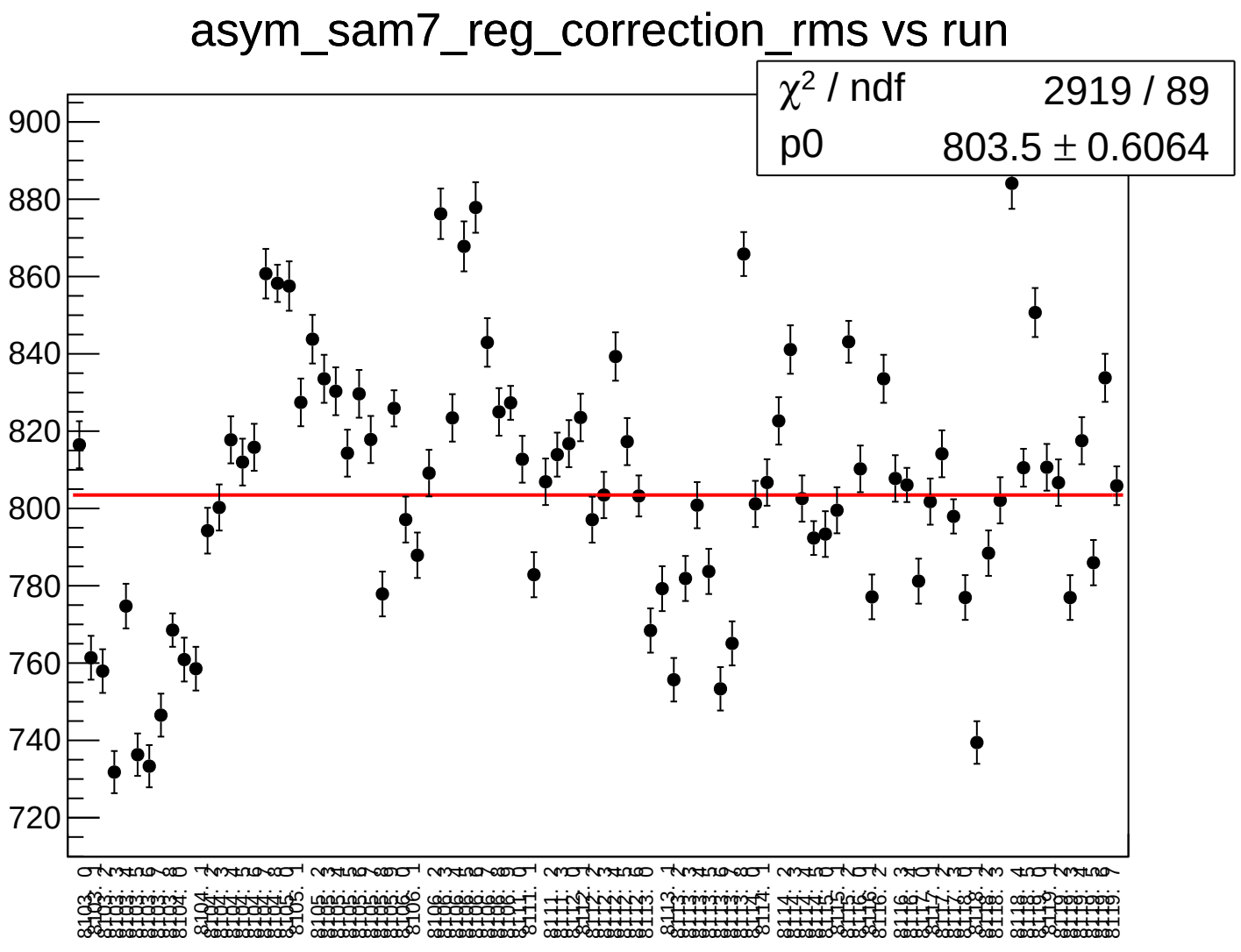

reg_asym_sam7_mean vs run
χ² / ndf 91.35 / 89
p0 −82.98 ± 80.82
pull
Entries 90
Mean −105.4
Std Dev 0

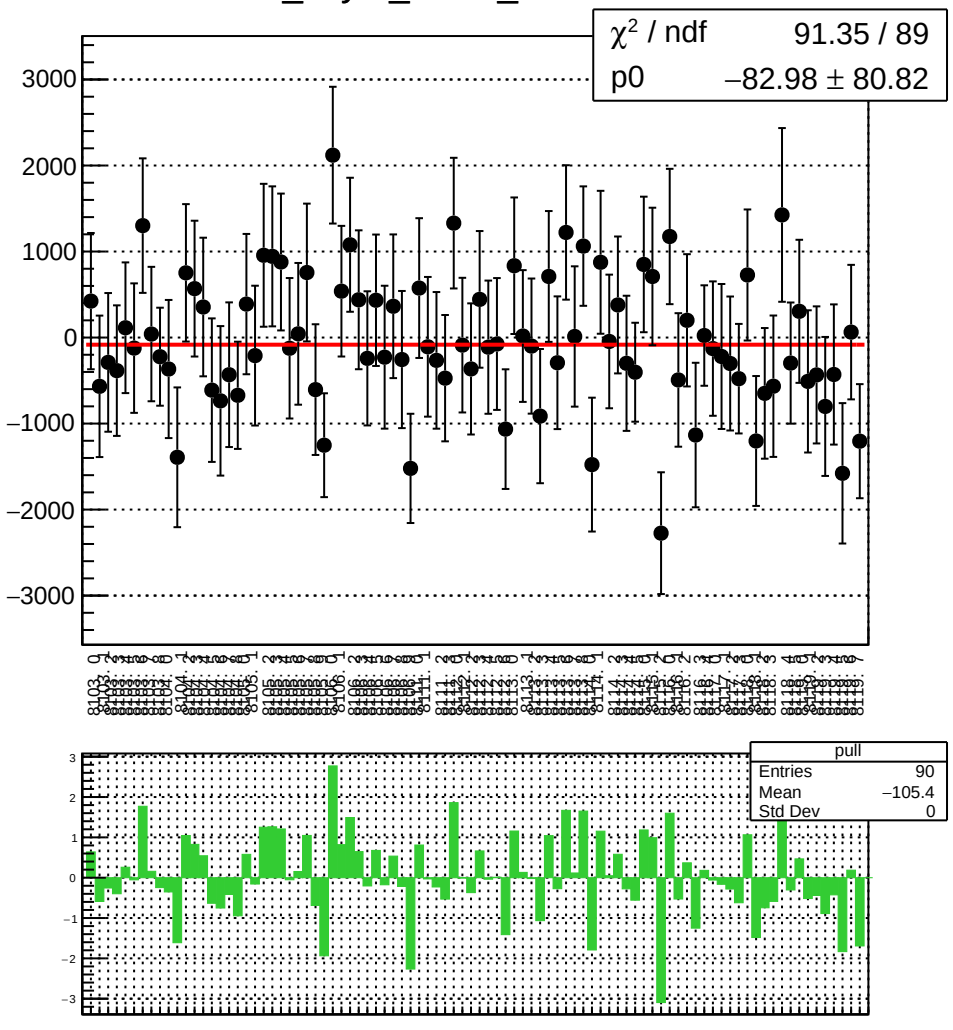

pull1D
Entries 90
Mean 0.02964
Std Dev 1.007

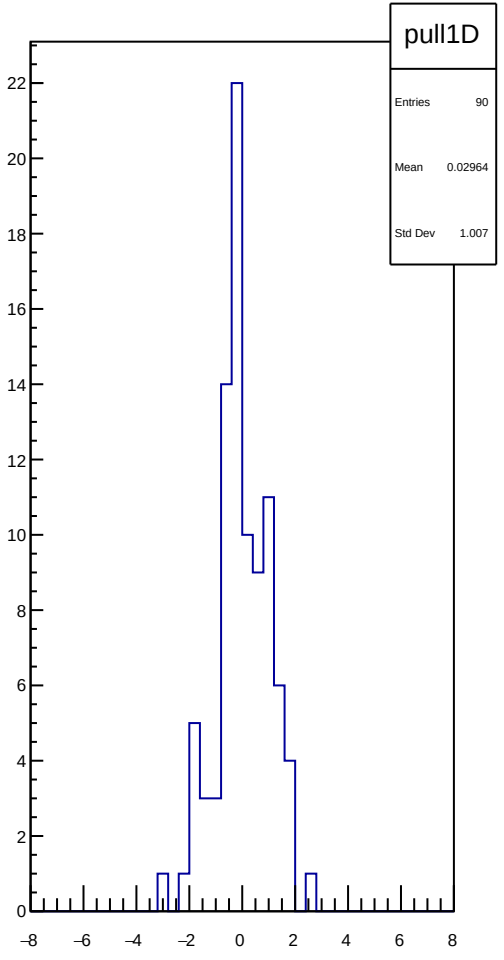

reg_asym_sam7_rms vs run
χ^2 / ndf 3162 / 89
p0 75.72 ± 0.05715
95
90
85
80
75
70

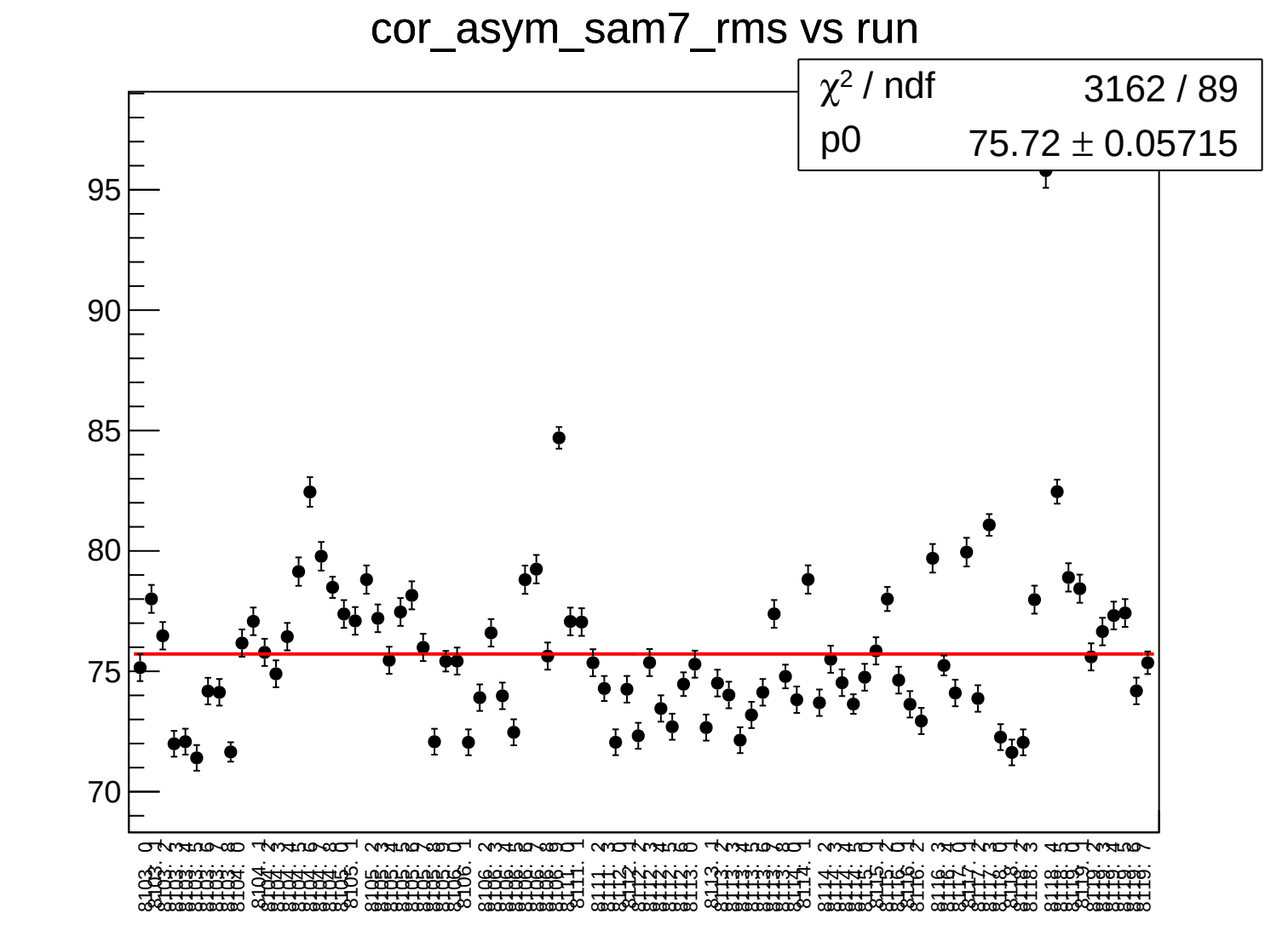

asym_sam7_reg_correction_mean vs run
χ² / ndf 88.62 / 89
p0 −2082 ± 857.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 2.399e+04
Std Dev 0
3
2
1
0
−1
−2

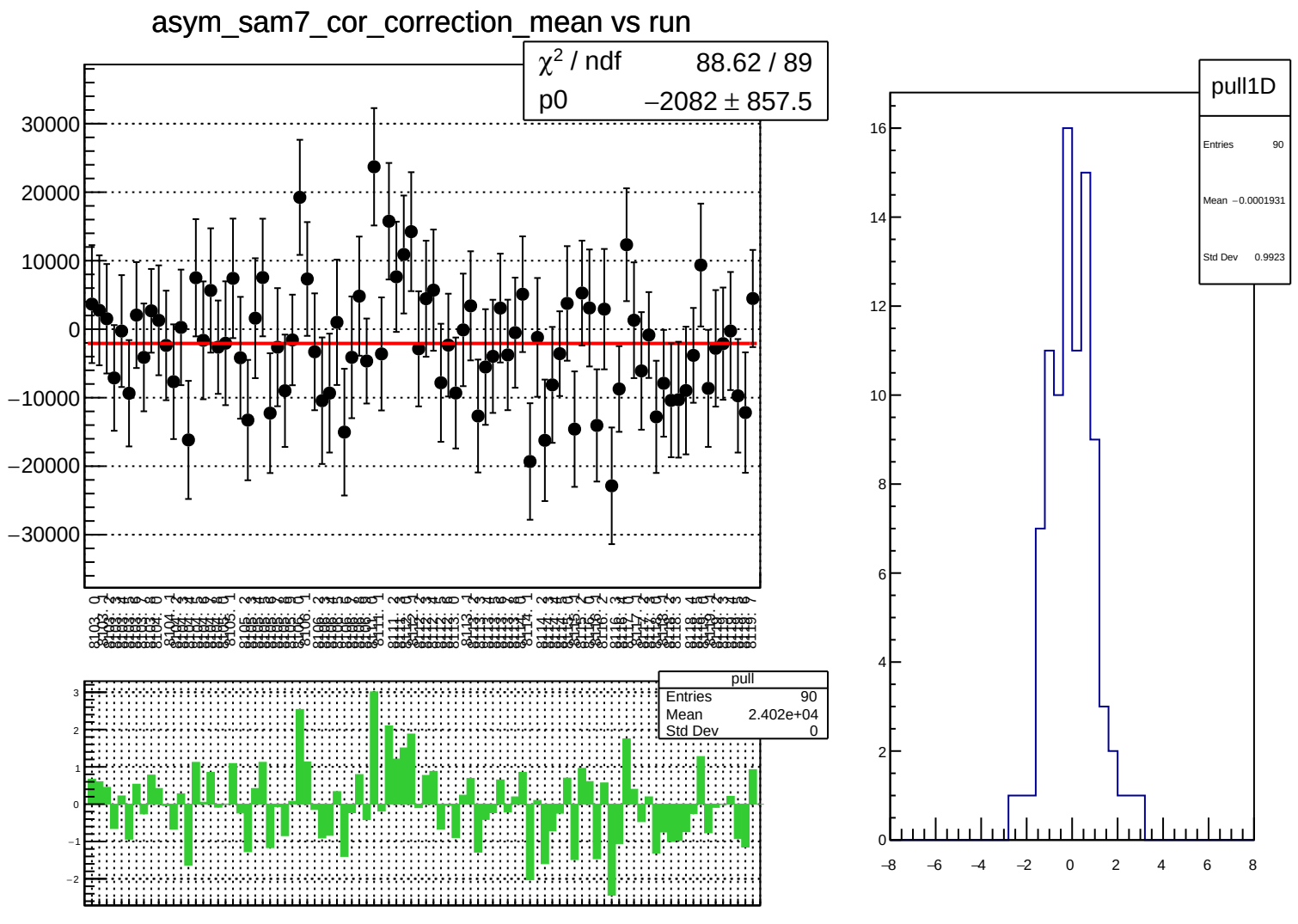

pull1D
Entries 90
Mean −0.0001933
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

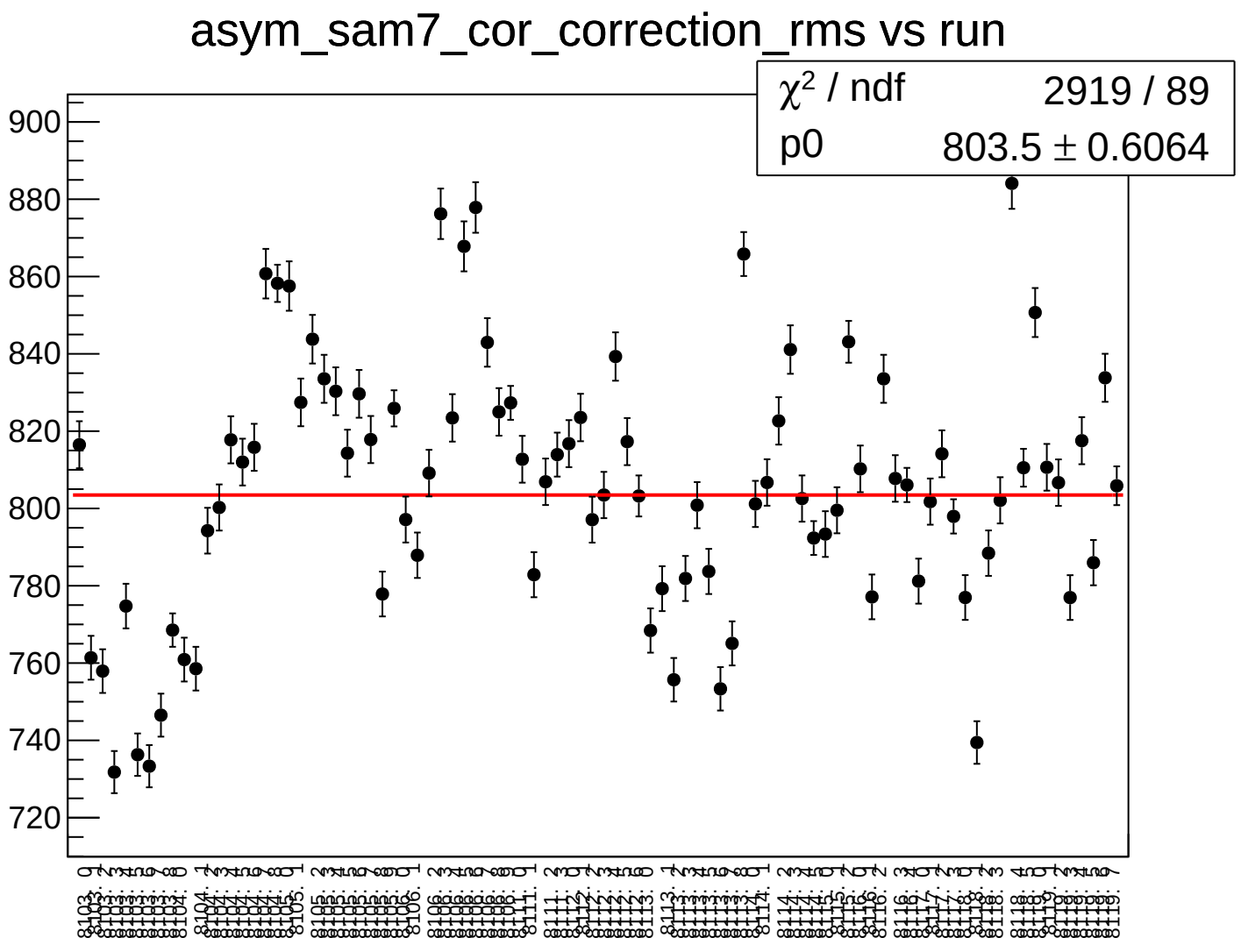

asym_sam7_reg_correction_rms vs run
χ² / ndf 2919 / 89
p0 803.5 ± 0.6064
900
880
860
840
820
800
780
760
740
720

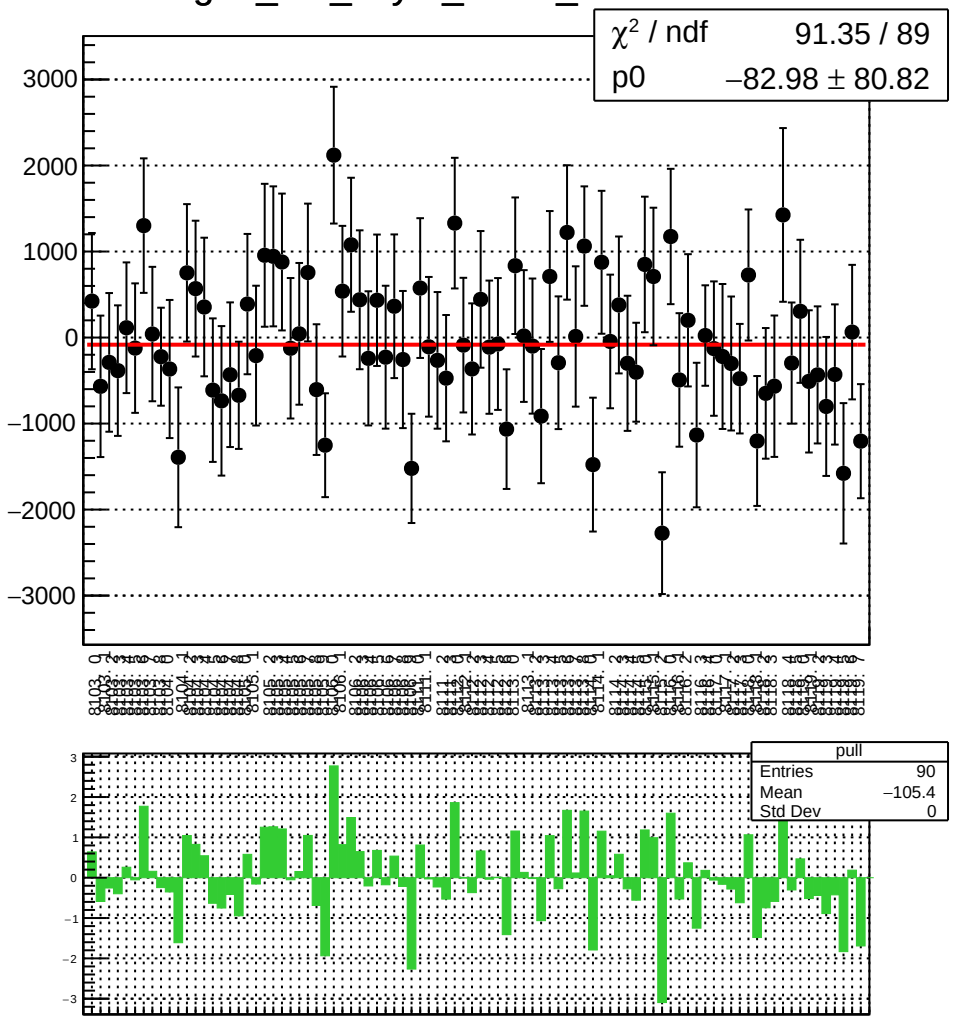

cor_asym_sam7_mean vs run
χ² / ndf 91.35 / 89
p0 −82.98 ± 80.82
pull
Entries 90
Mean −105.4
Std Dev 0

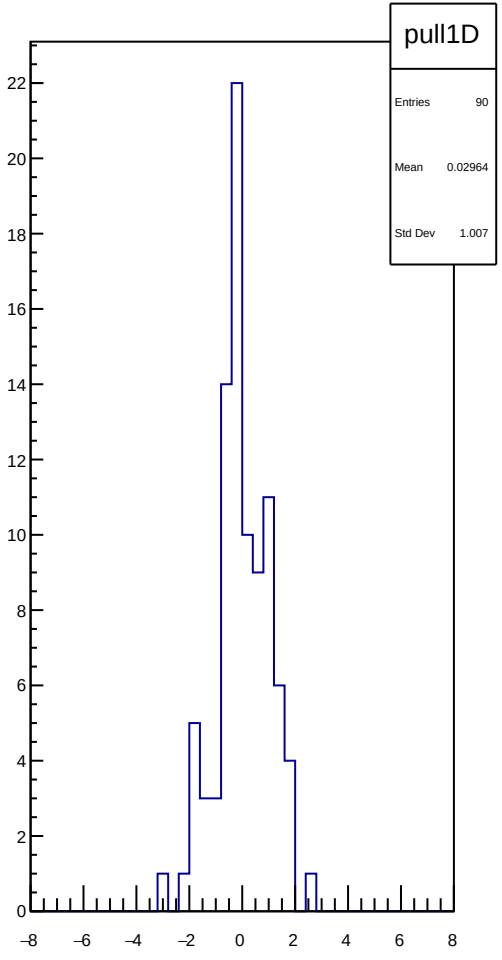

pull1D
Entries 90
Mean 0.02964
Std Dev 1.007

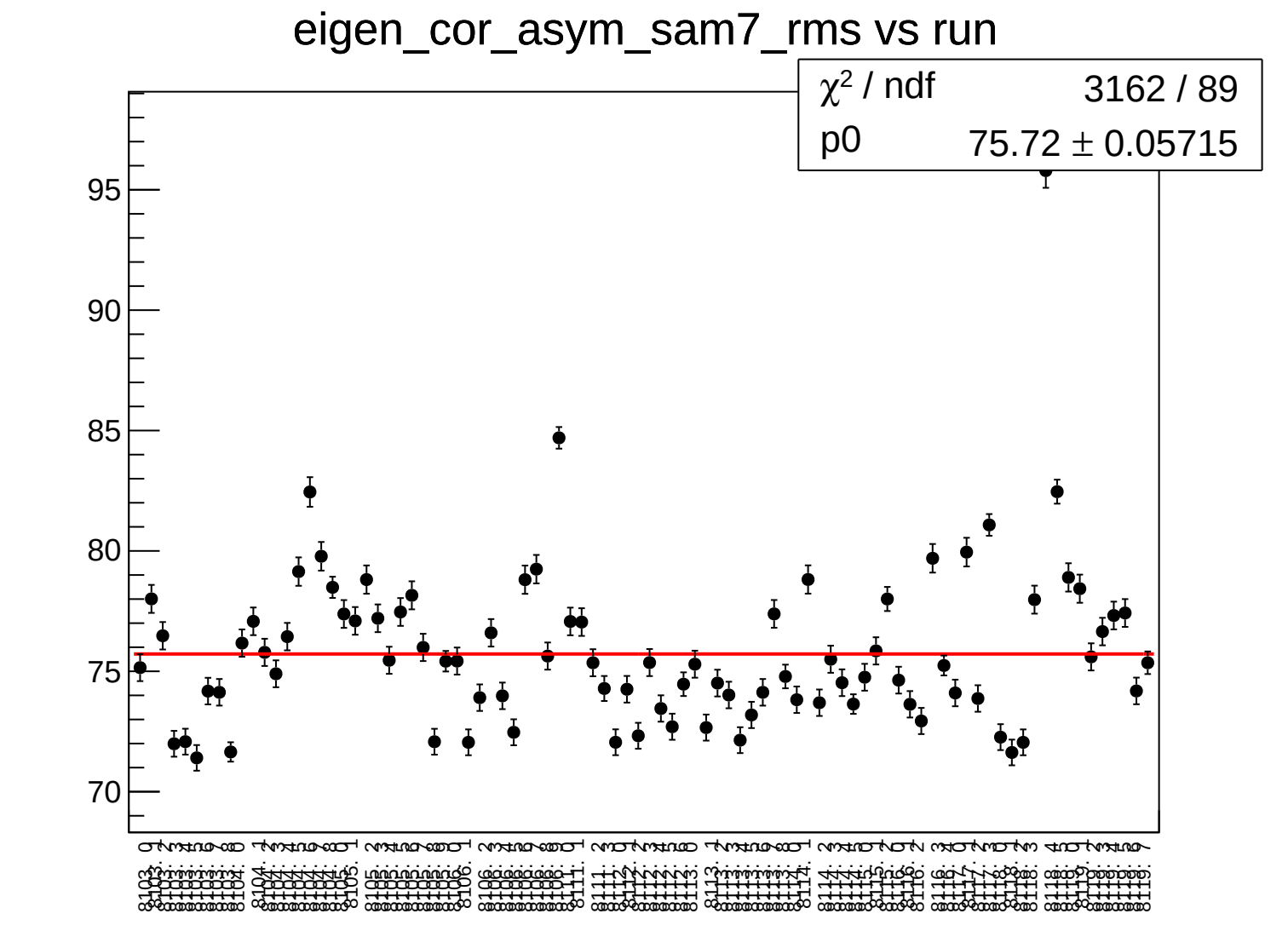

cor_asym_sam7_rms vs run
χ² / ndf 3162 / 89
p0 75.72 ± 0.05715
95
90
85
80
75
70

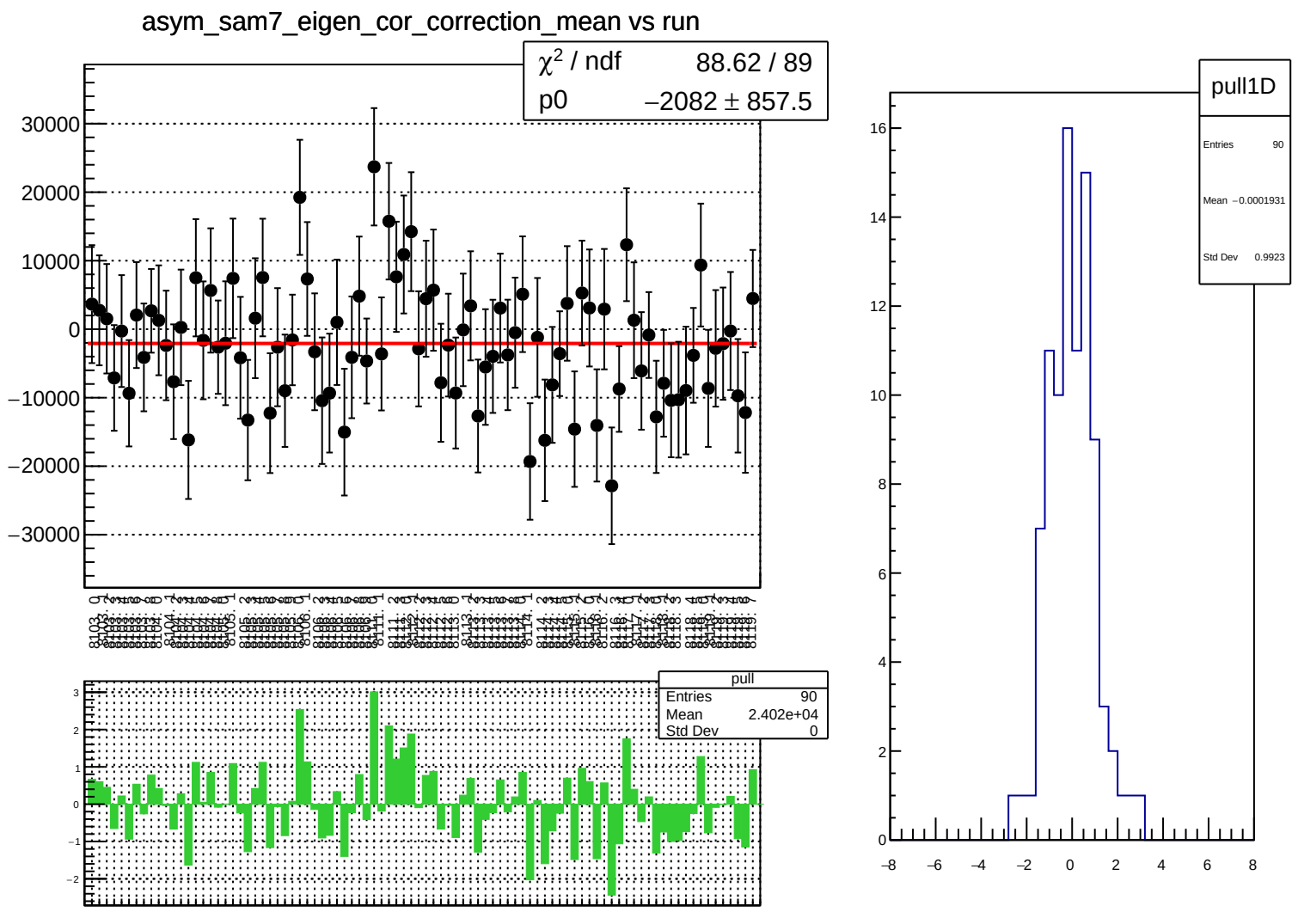

asym_sam7_cor_correction_mean vs run
χ² / ndf 88.62 / 89
p0 −2082 ± 857.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 2.402e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0001931
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

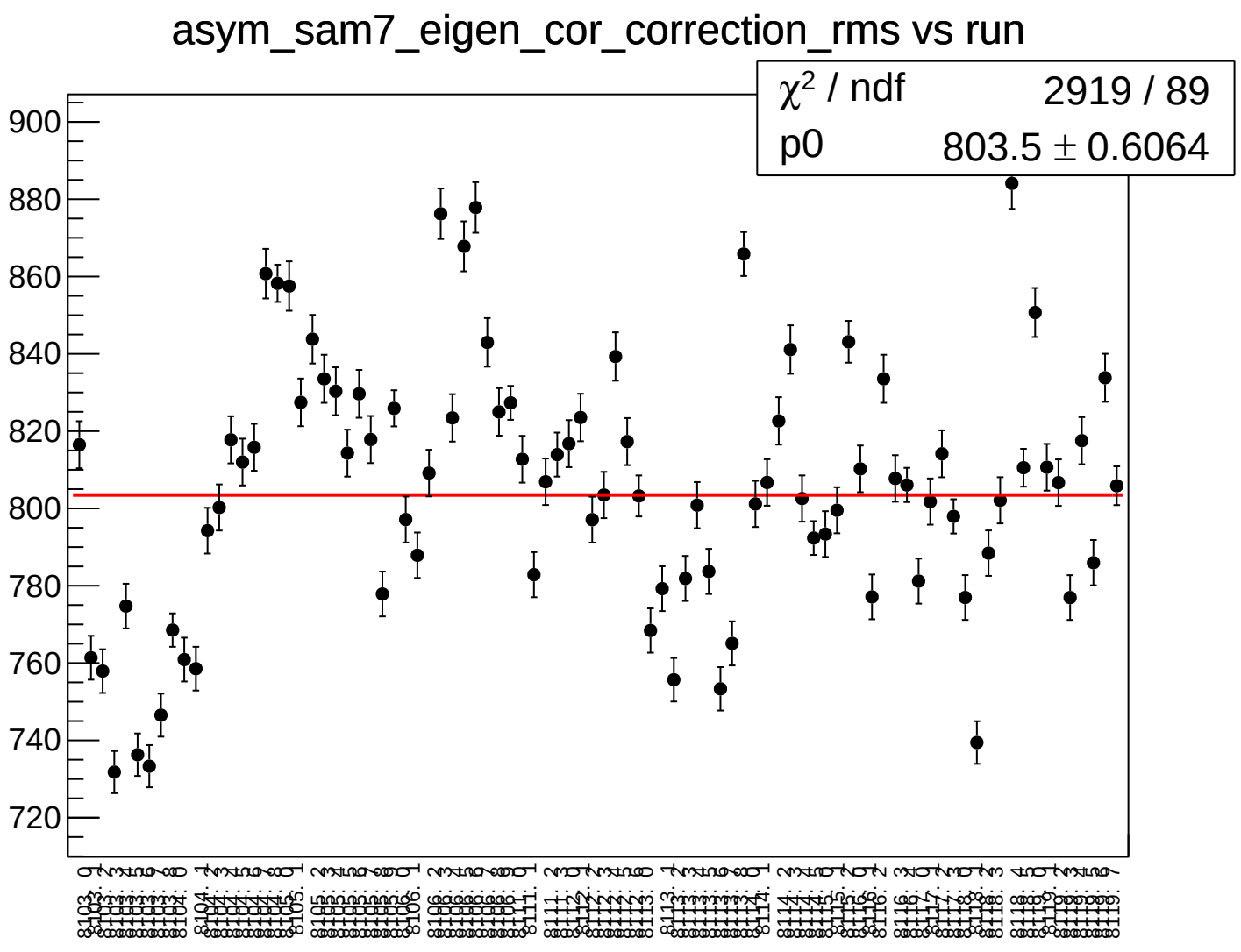

asym_sam7_cor_correction_rms vs run
χ² / ndf 2919 / 89
p0 803.5 ± 0.6064
900
880
860
840
820
800
780
760
740
720

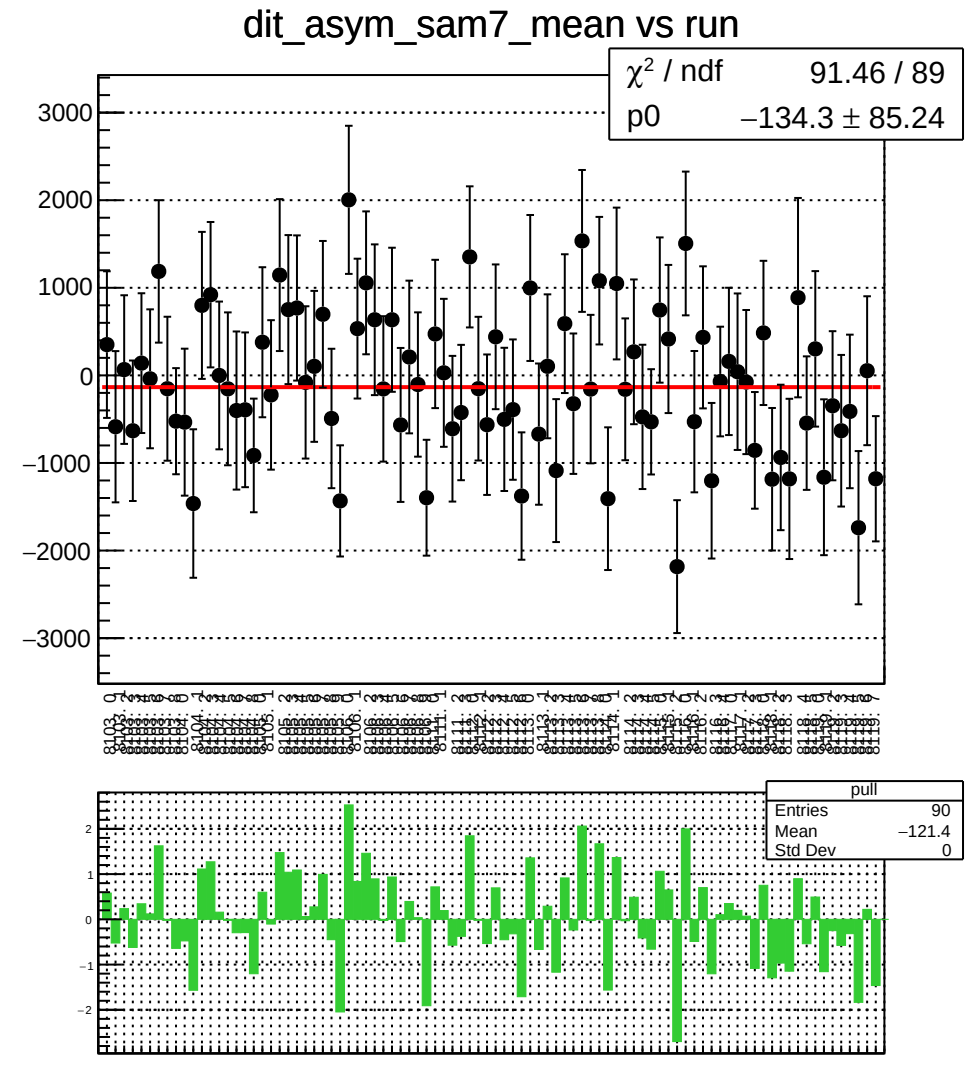

eigen_cor_asym_sam7_mean vs run
χ² / ndf 91.35 / 89
p0 −82.98 ± 80.82
pull
Entries 90
Mean −105.4
Std Dev 0

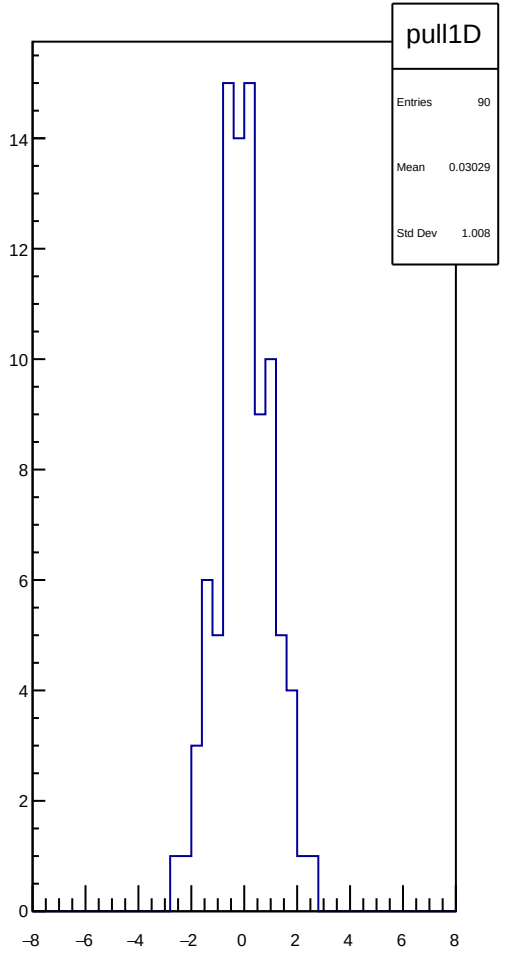

pull1D
Entries 90
Mean 0.02964
Std Dev 1.007

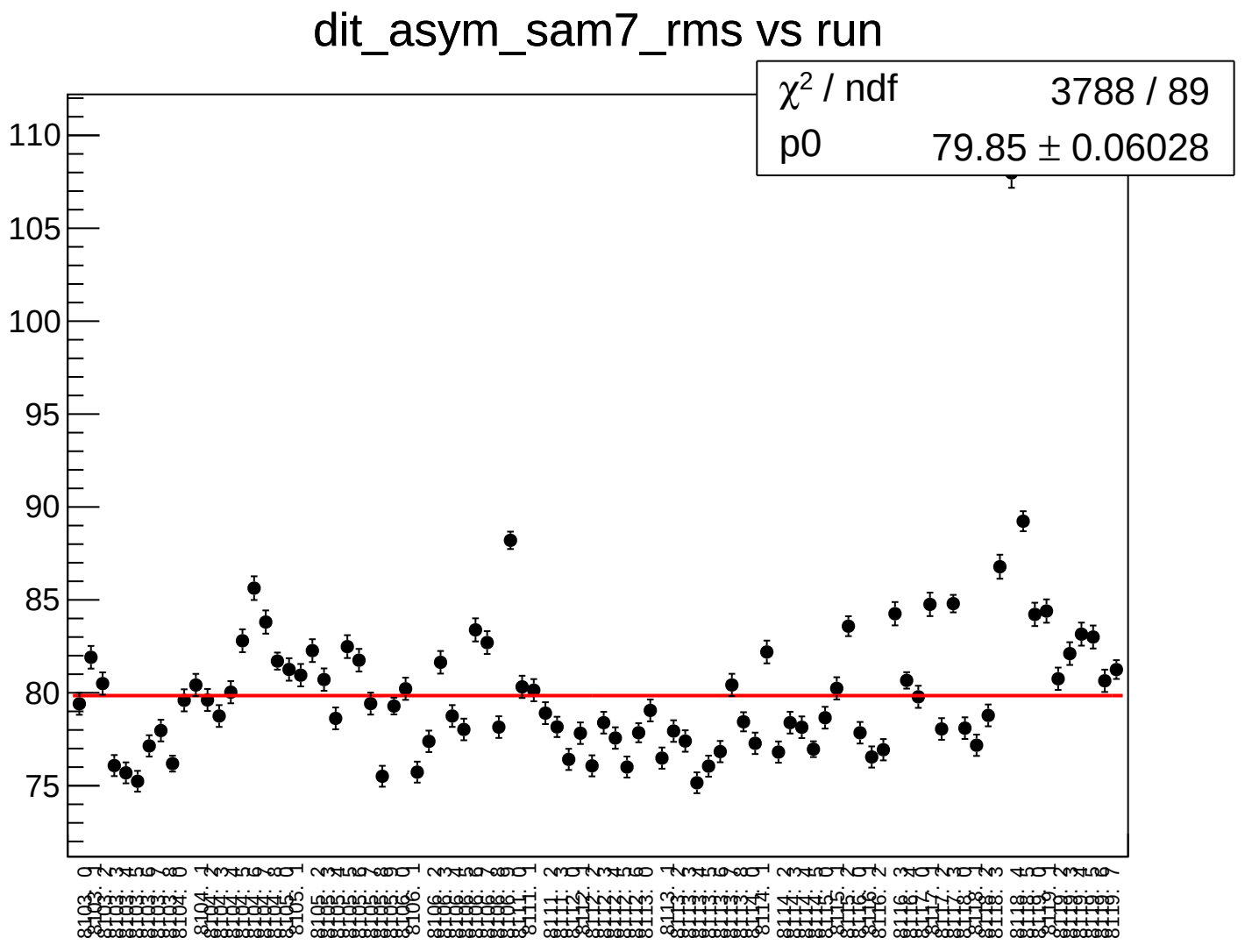

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 3162 / 89
p0 75.72 ± 0.05715
95
90
85
80
75
70

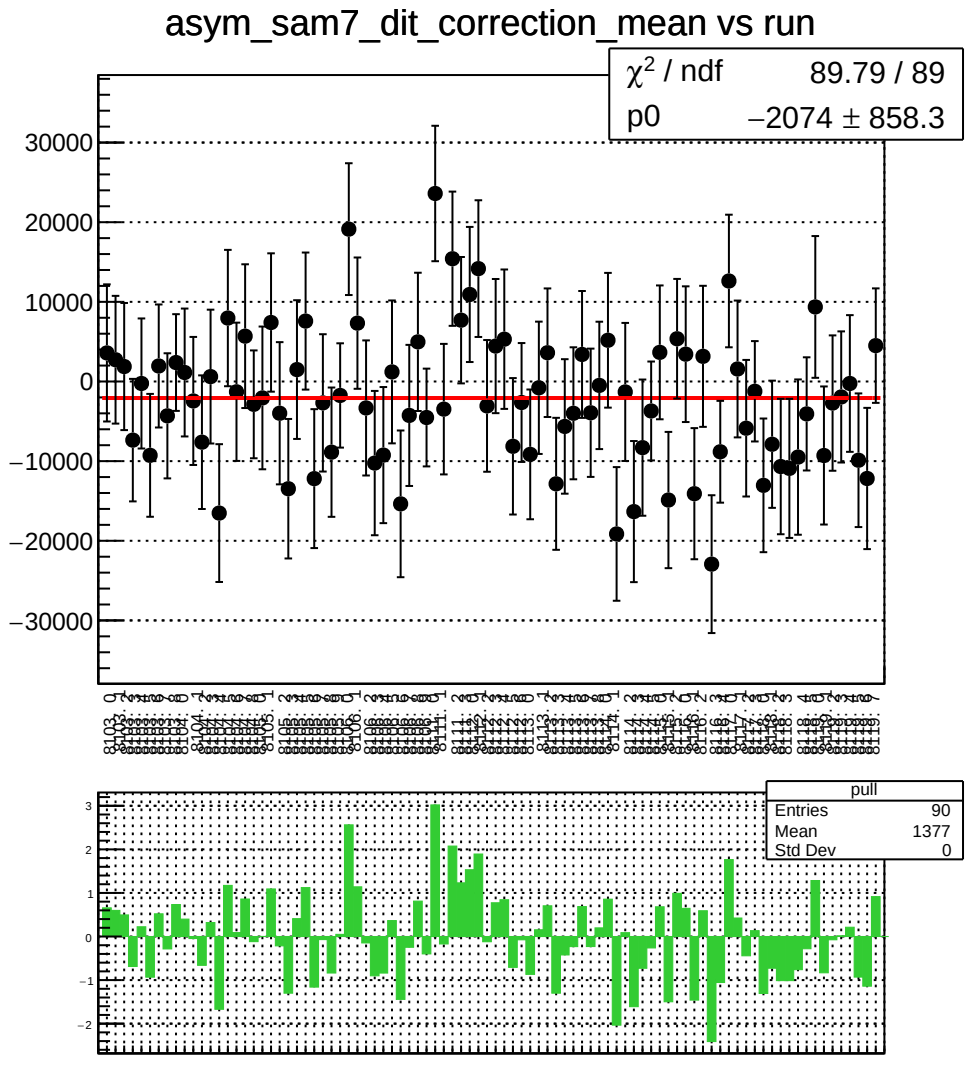

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 88.62 / 89
p0 −2082 ± 857.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 2.402e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0001931
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

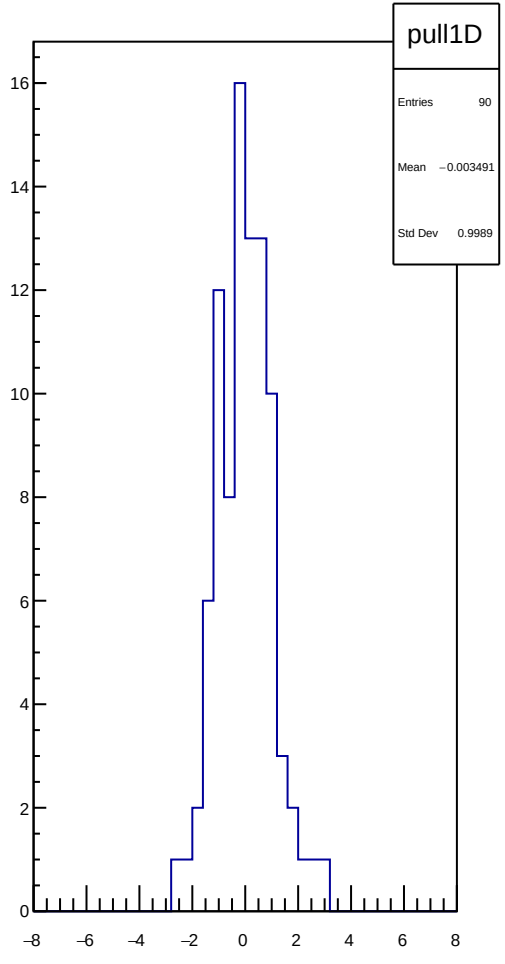

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 2919 / 89
p0 803.5 ± 0.6064
900
880
860
840
820
800
780
760
740
720

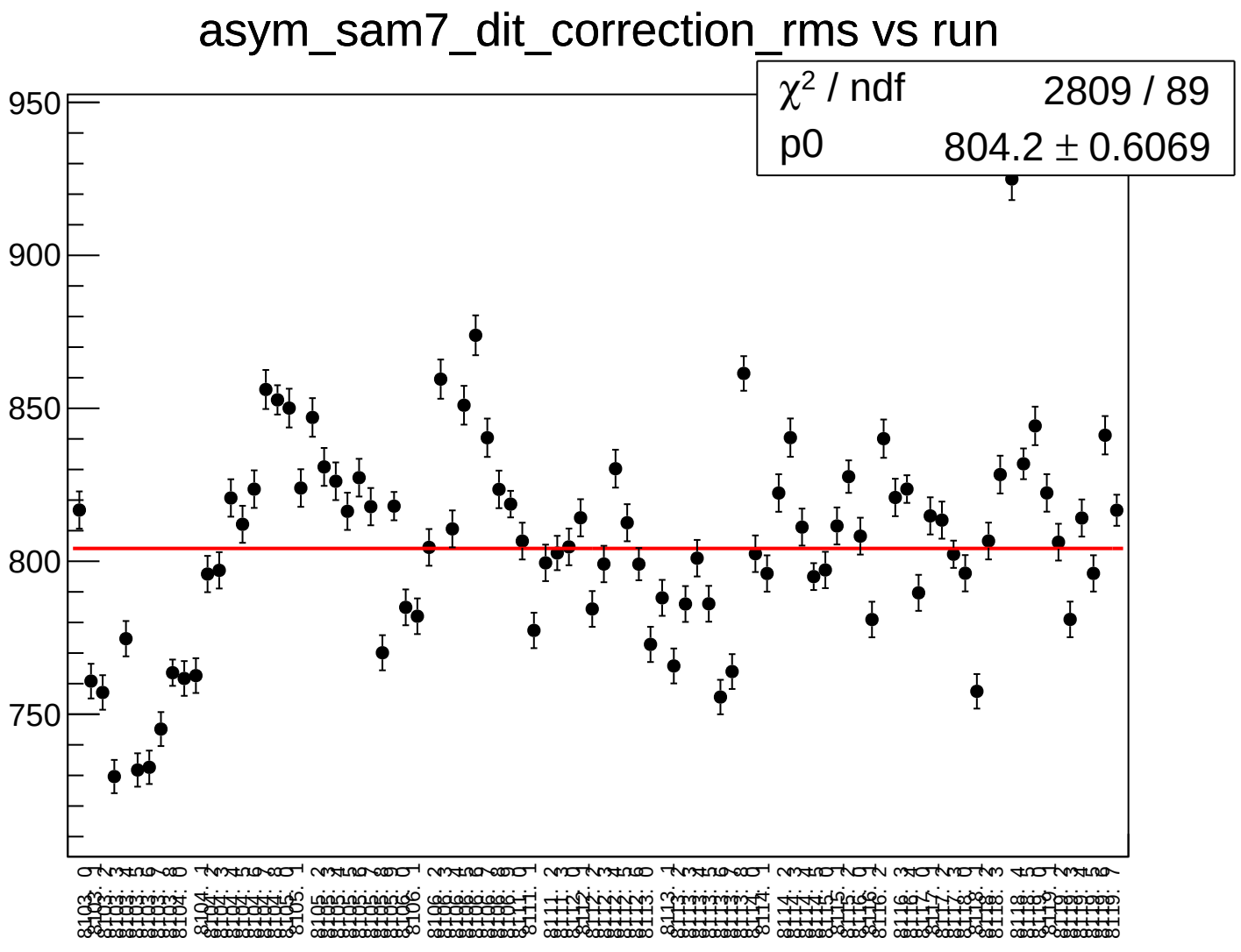

dit_asym_sam7_mean vs run
χ^2 / ndf 91.46 / 89
p0 −134.3 ± 85.24
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −121.4
Std Dev 0
2
1
0
−1
−2

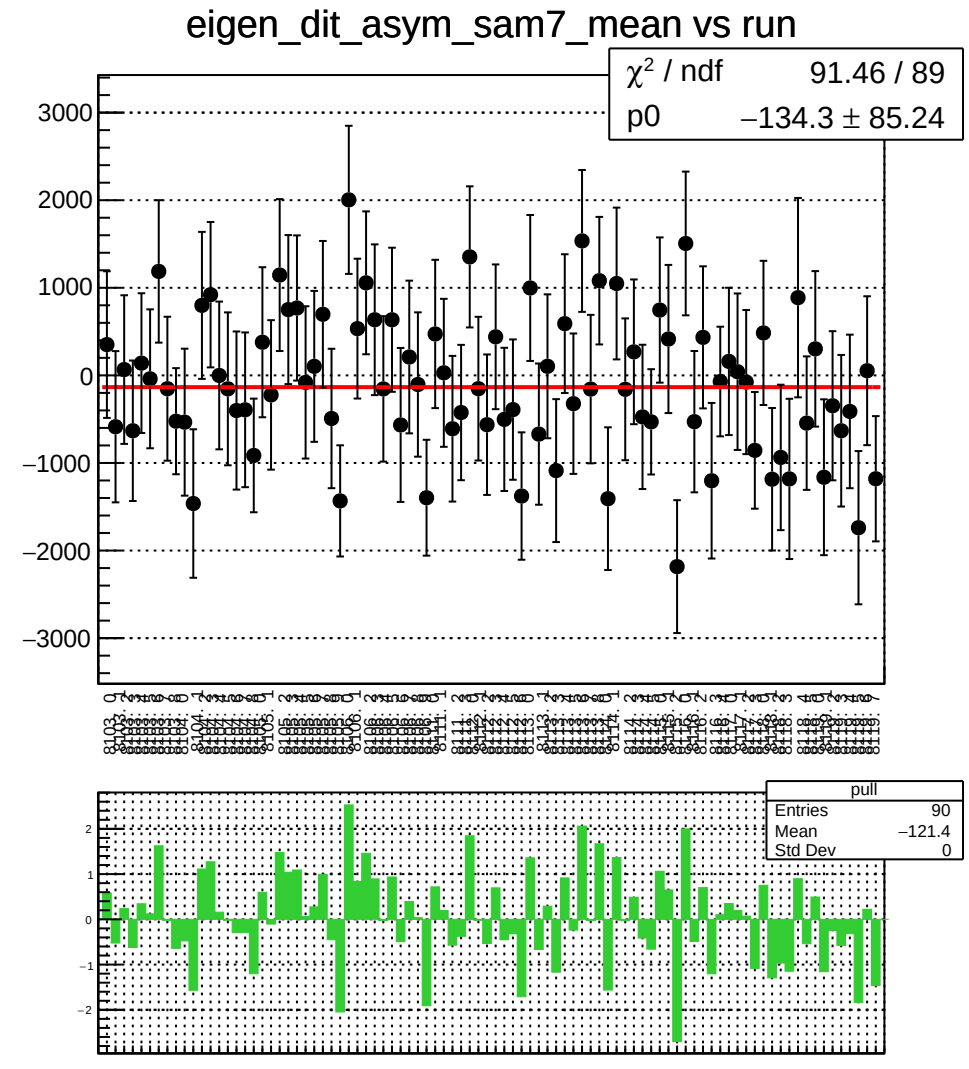

pull1D
Entries 90
Mean 0.03029
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

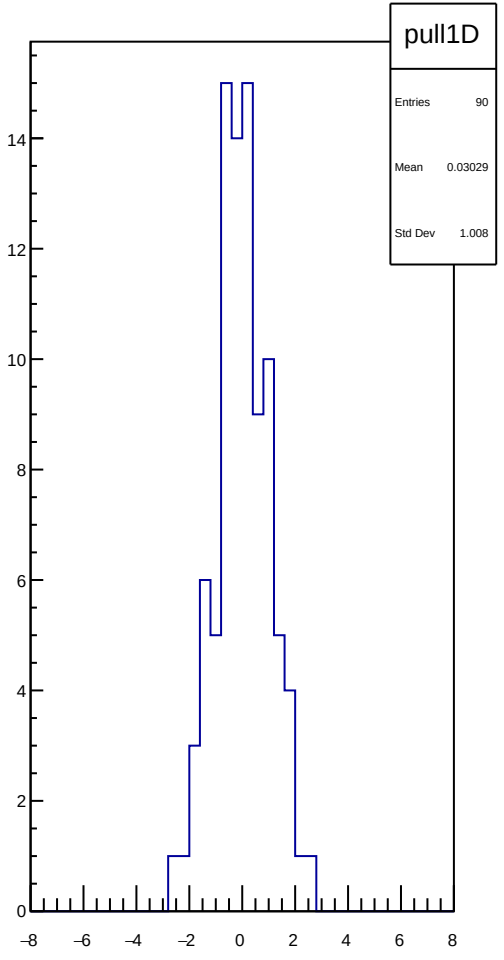

dit_asym_sam7_rms vs run
χ² / ndf 3788 / 89
p0 79.85 ± 0.06028
110
105
100
95
90
85
80
75

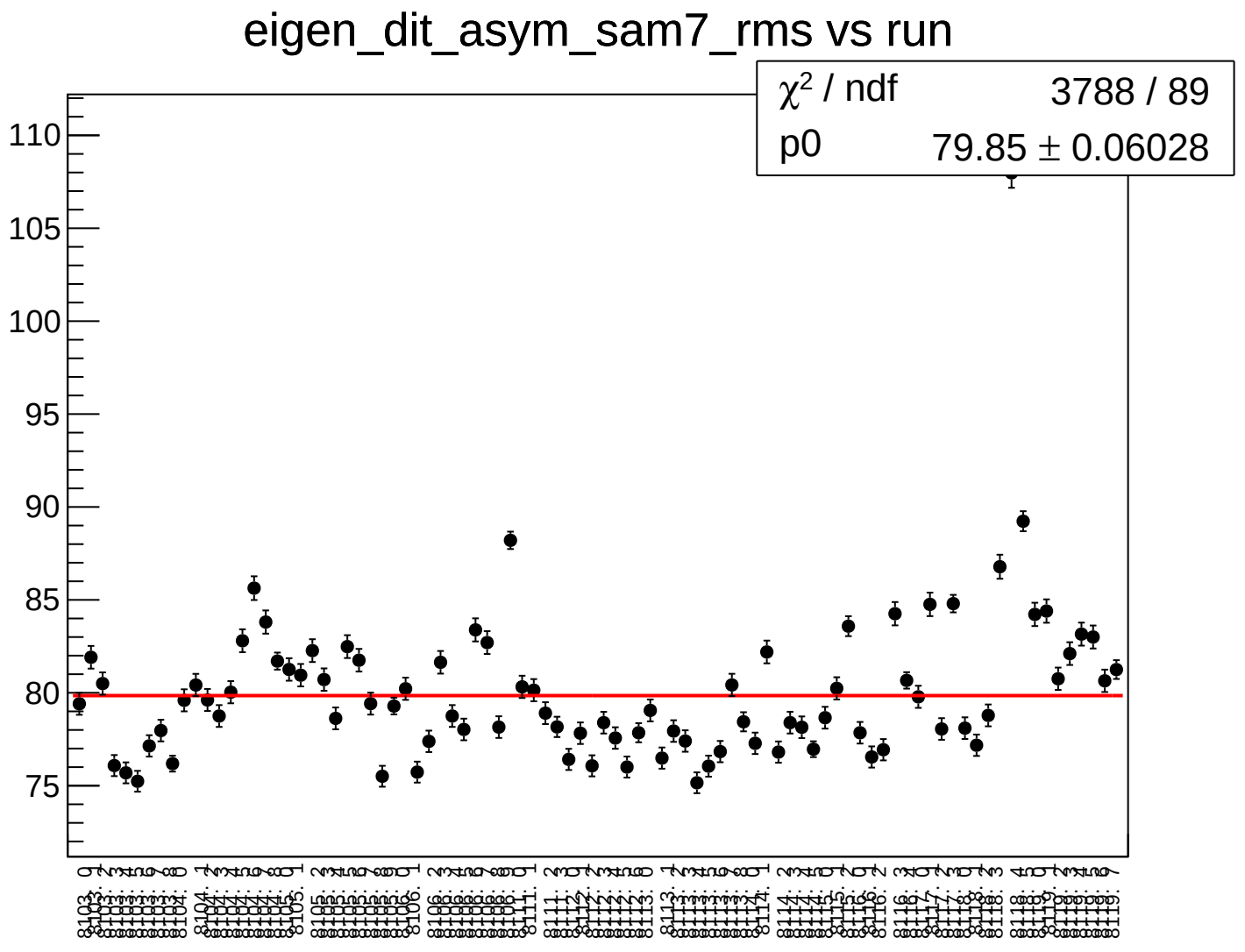

asym_sam7_dit_correction_mean vs run
χ² / ndf 89.79 / 89
p0 −2074 ± 858.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1377
Std Dev 0
3
2
1
0
−1
−2

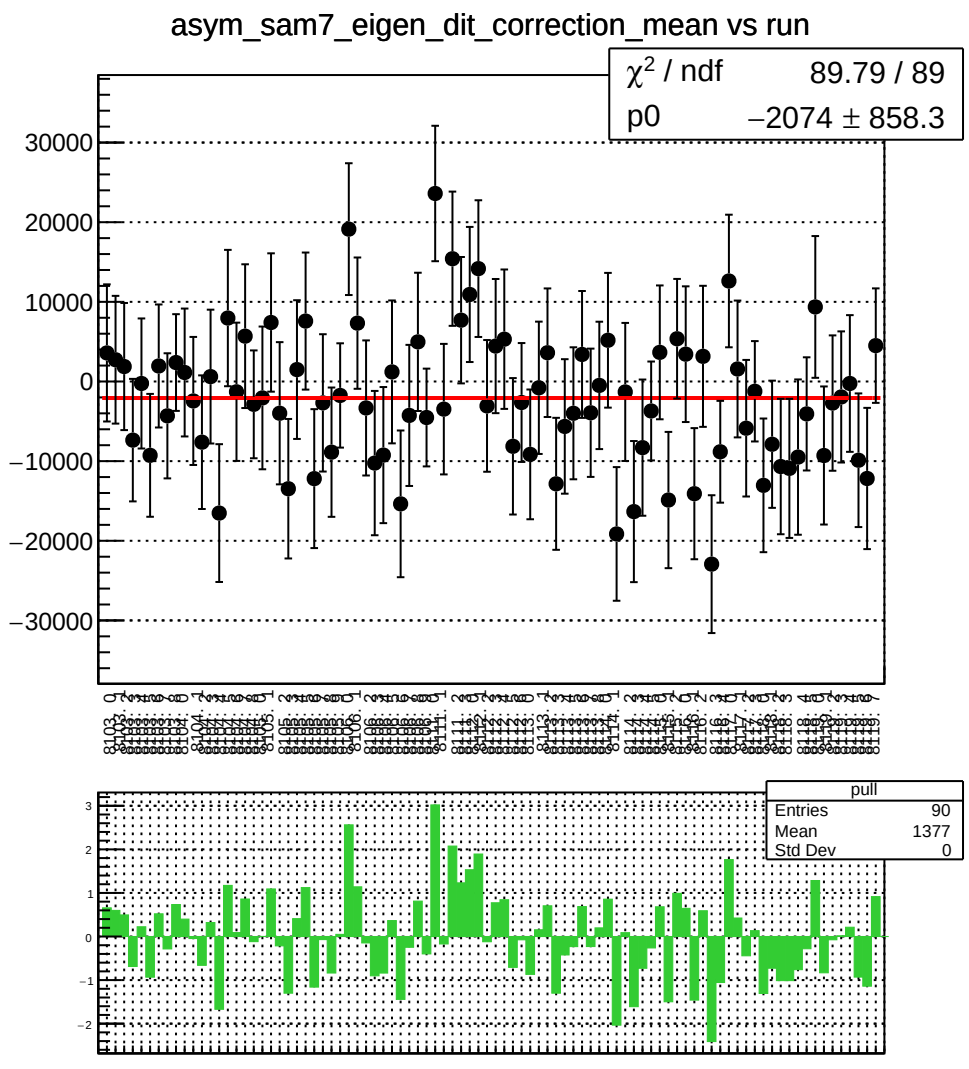

pull1D
Entries 90
Mean −0.003491
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

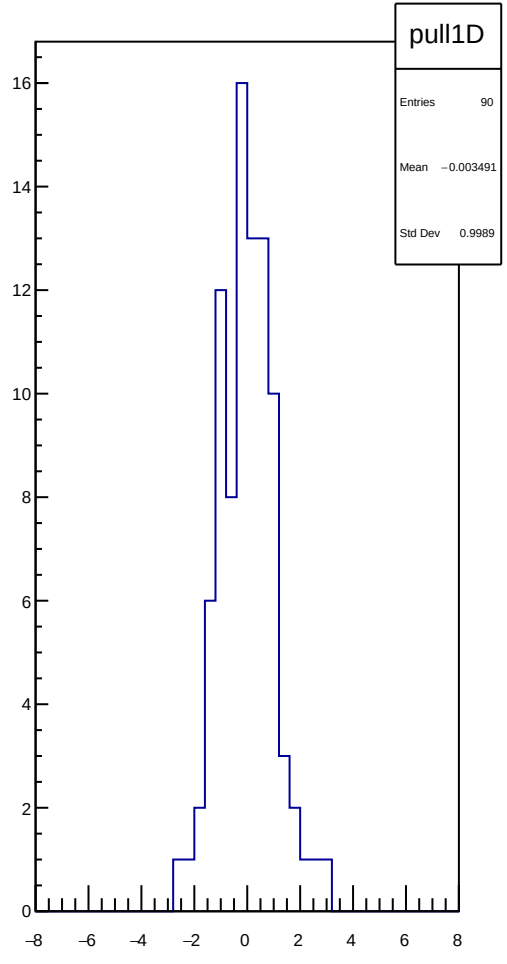

asym_sam7_dit_correction_rms vs run
χ² / ndf 2809 / 89
p0 804.2 ± 0.6069
950
900
850
800
750

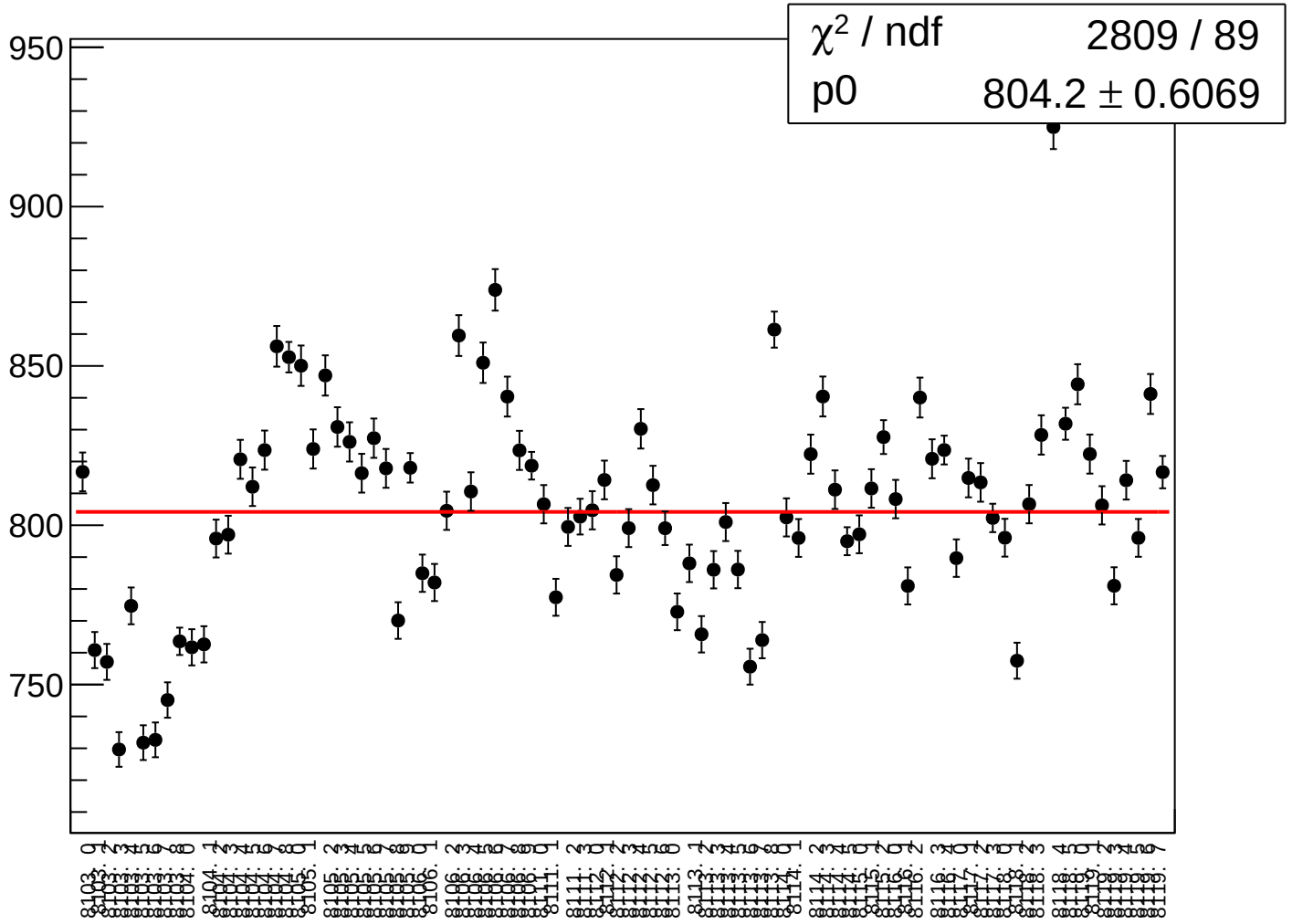

eigen_dit_asym_sam7_mean vs run
χ² / ndf 91.46 / 89
p0 −134.3 ± 85.24
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −121.4
Std Dev 0
2
1
0
−1
−2

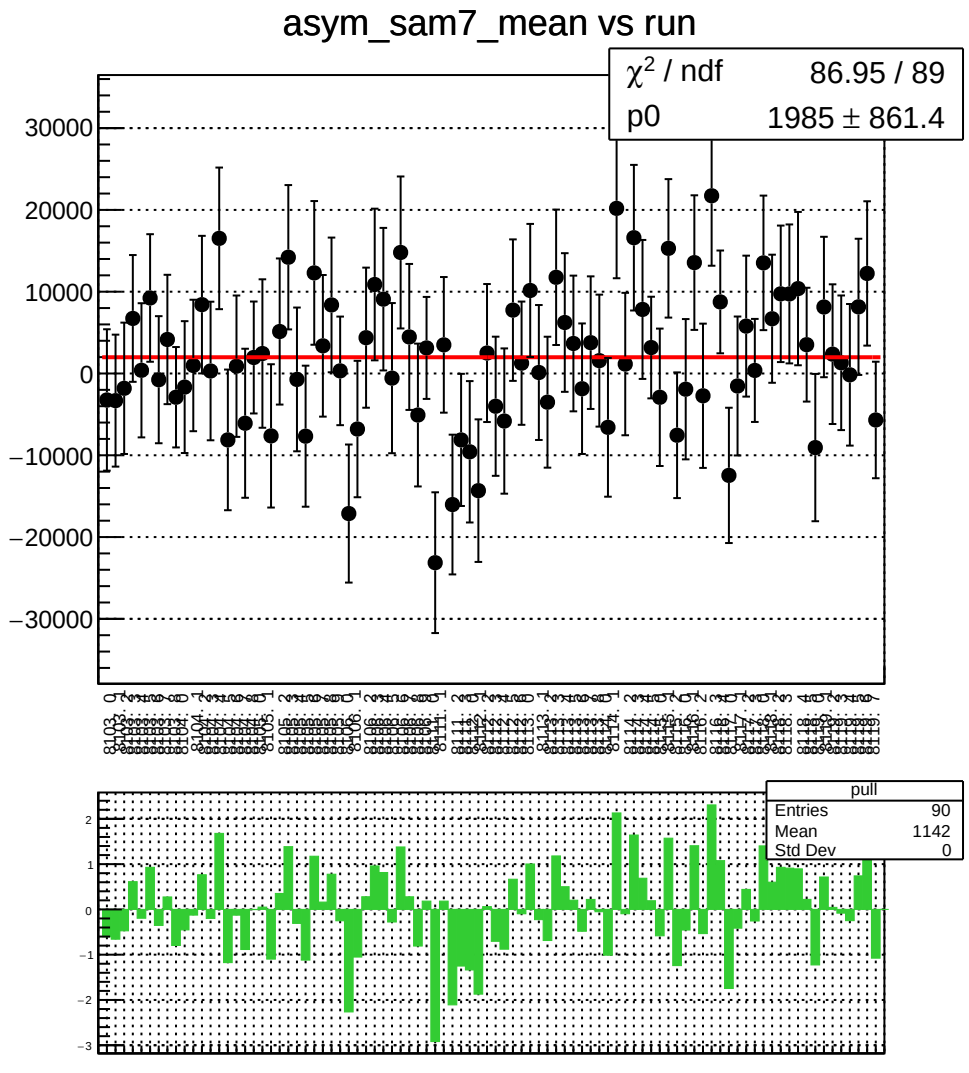

pull1D
Entries 90
Mean 0.03029
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

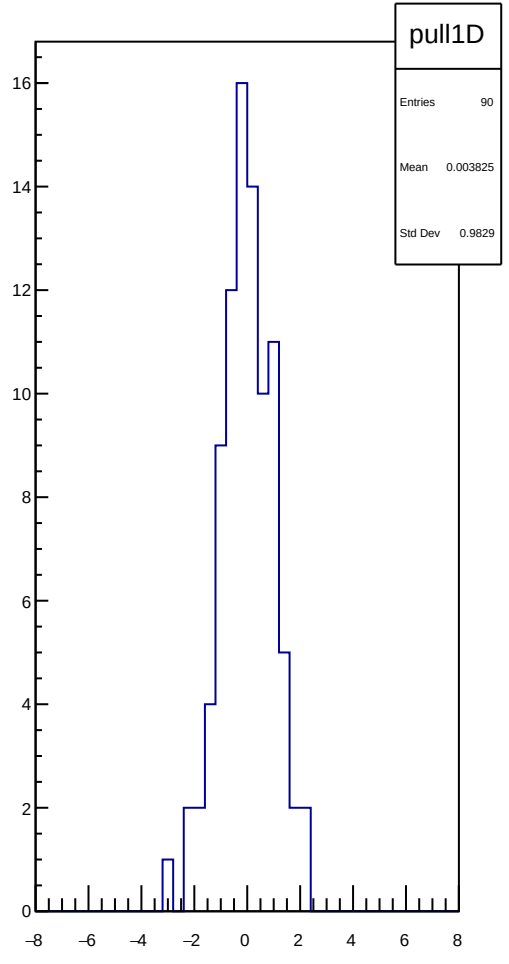

eigen_dit_asym_sam7_rms vs run
χ² / ndf 3788 / 89
p0 79.85 ± 0.06028
110
105
100
95
90
85
80
75

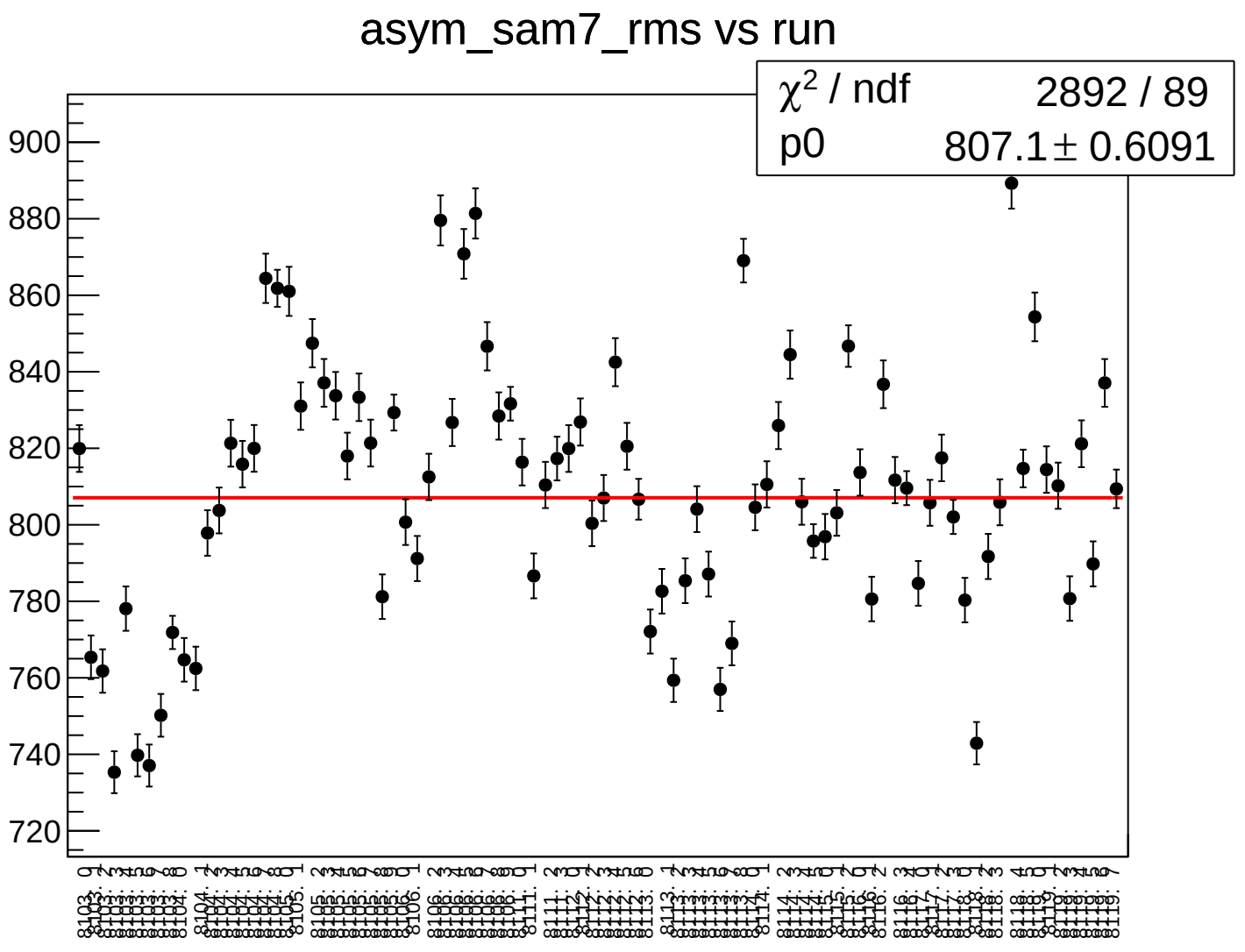

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 89.79 / 89
p0 −2074 ± 858.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1377
Std Dev 0
3
2
1
0
−1
−2

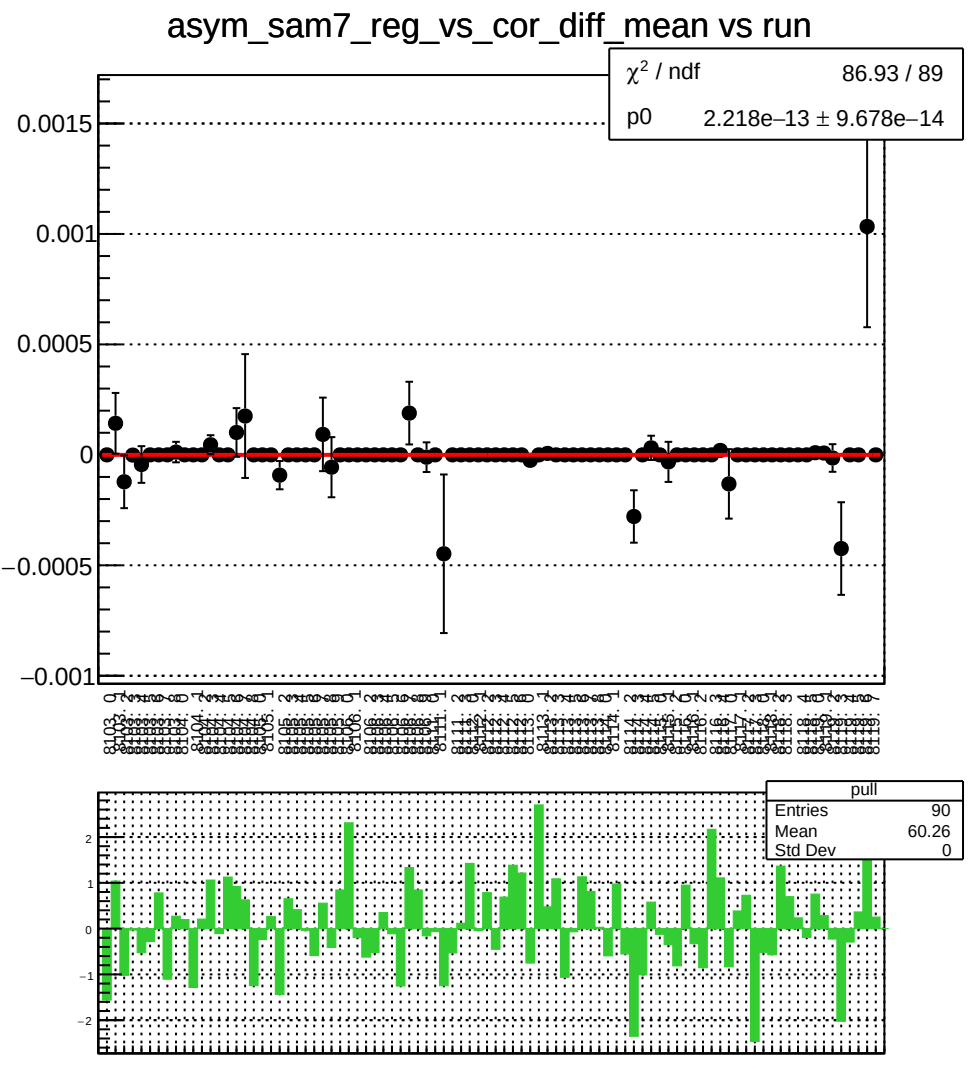

pull1D
Entries 90
Mean −0.003491
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

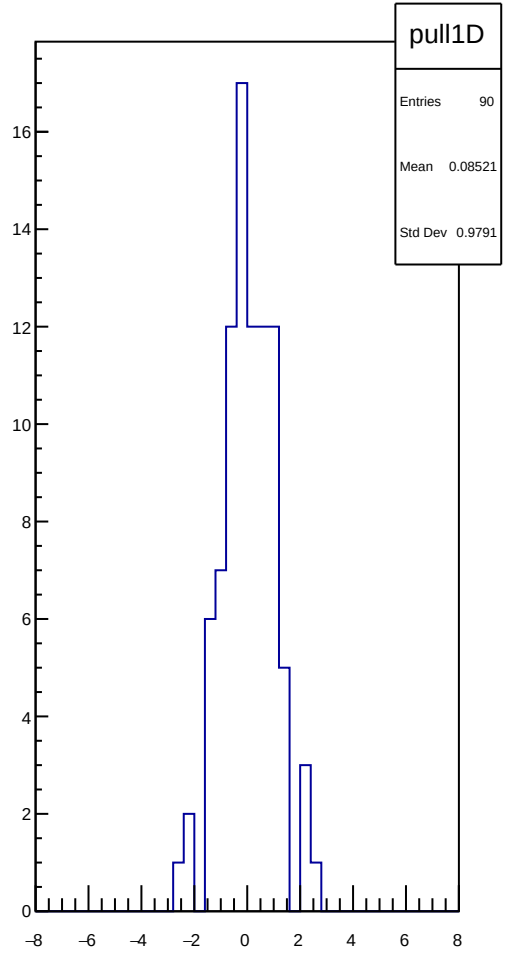

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2809 / 89
p0 804.2 ± 0.6069
950
900
850
800
750

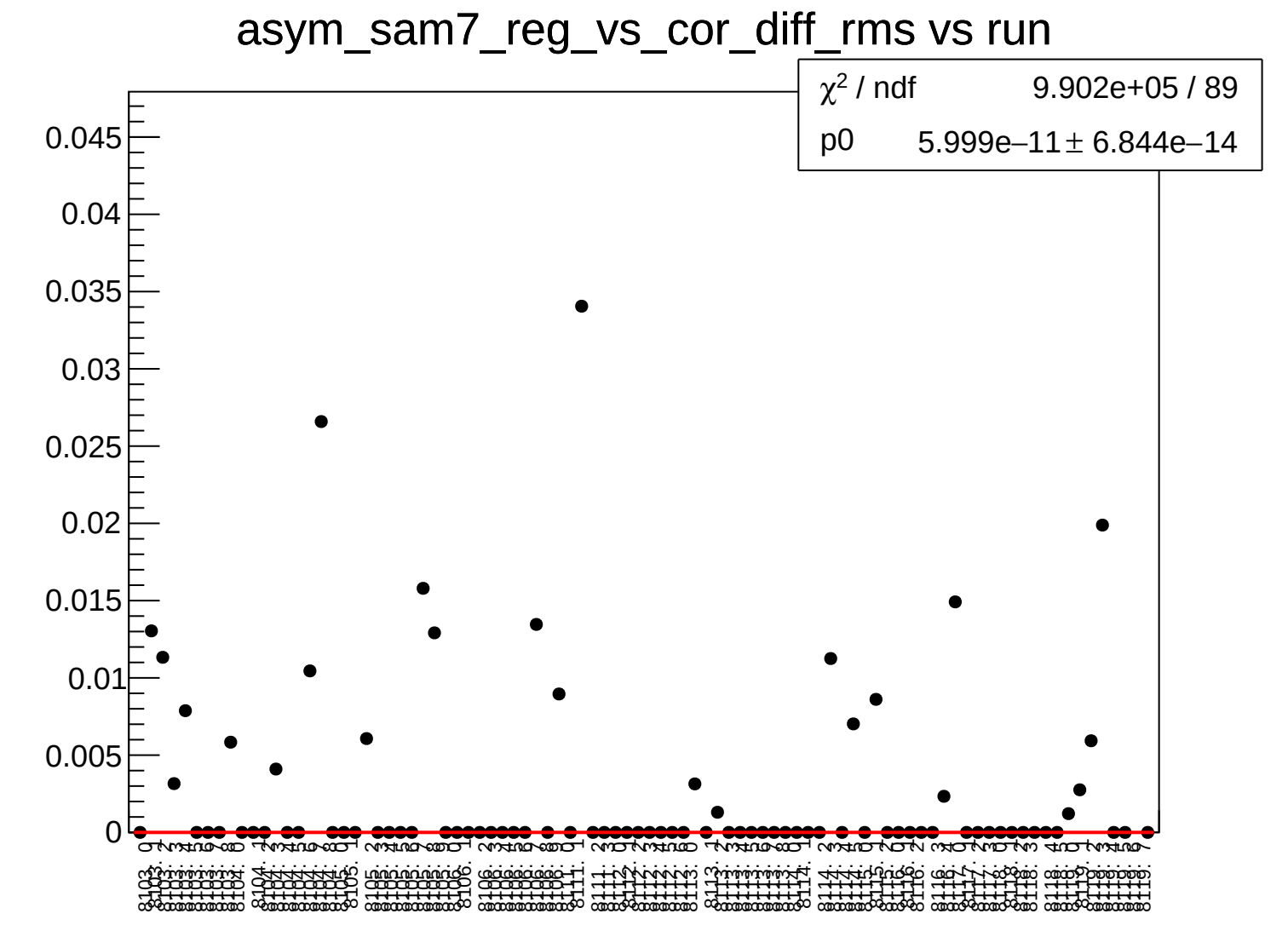

asym_sam7_mean vs run
χ² / ndf 86.95 / 89
p0 1985 ± 861.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 1142
Std Dev 0
2
1
0
−1
−2
−3

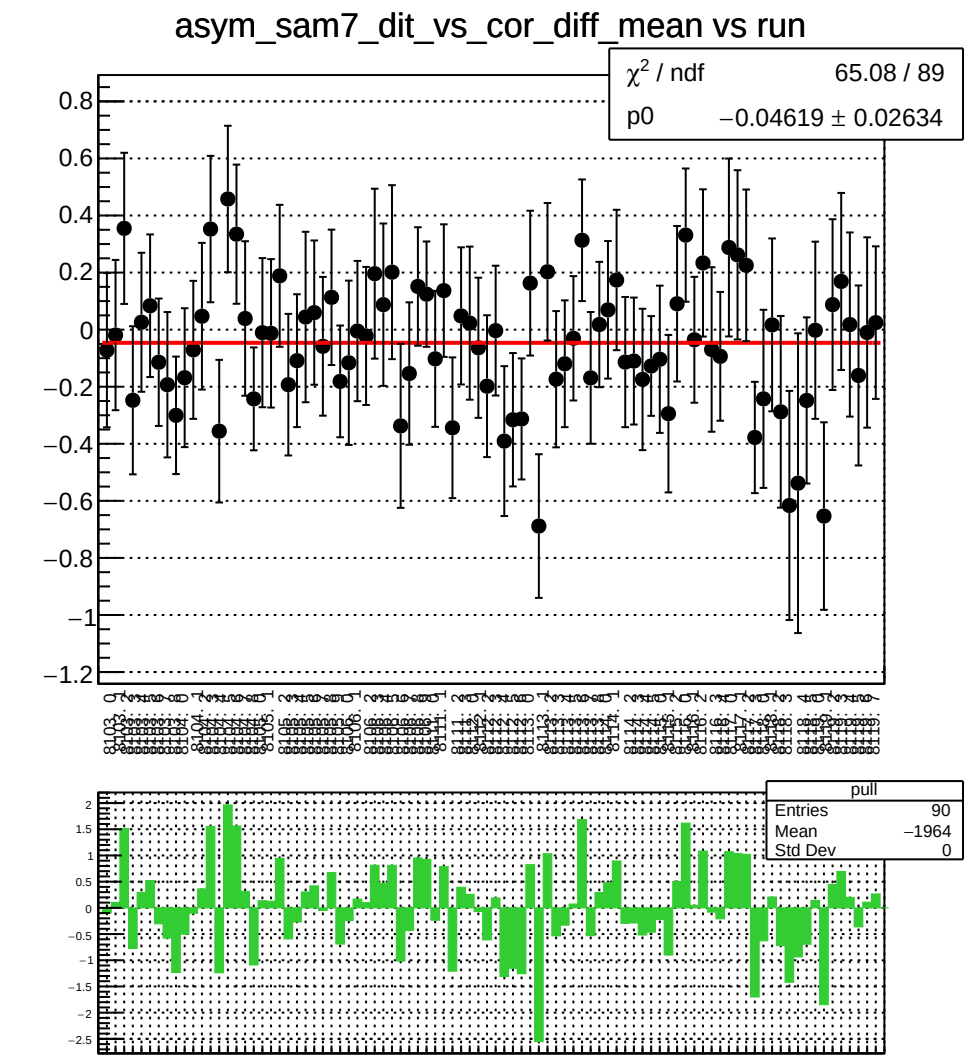

pull1D
Entries 90
Mean 0.003825
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

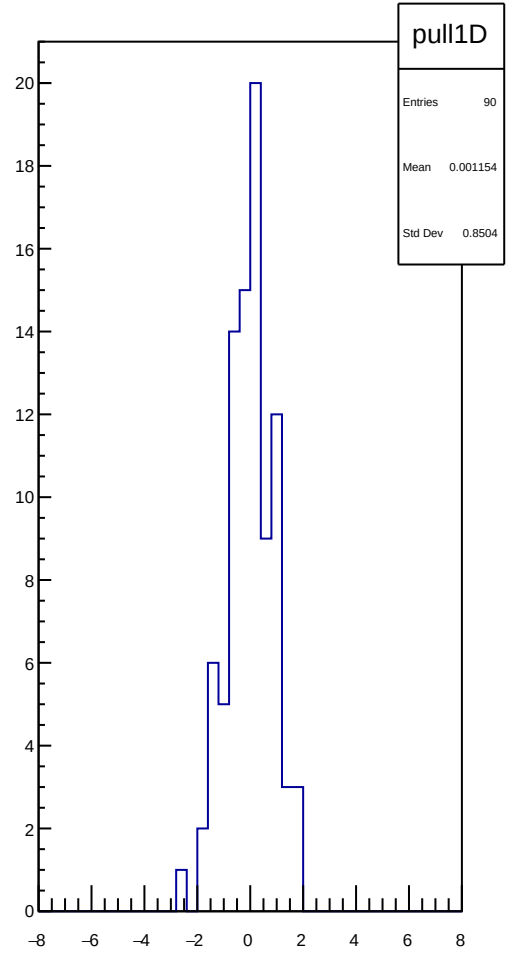

asym_sam7_rms vs run
χ^2 / ndf 2892 / 89
p0 807.1 ± 0.6091
900
880
860
840
820
800
780
760
740
720

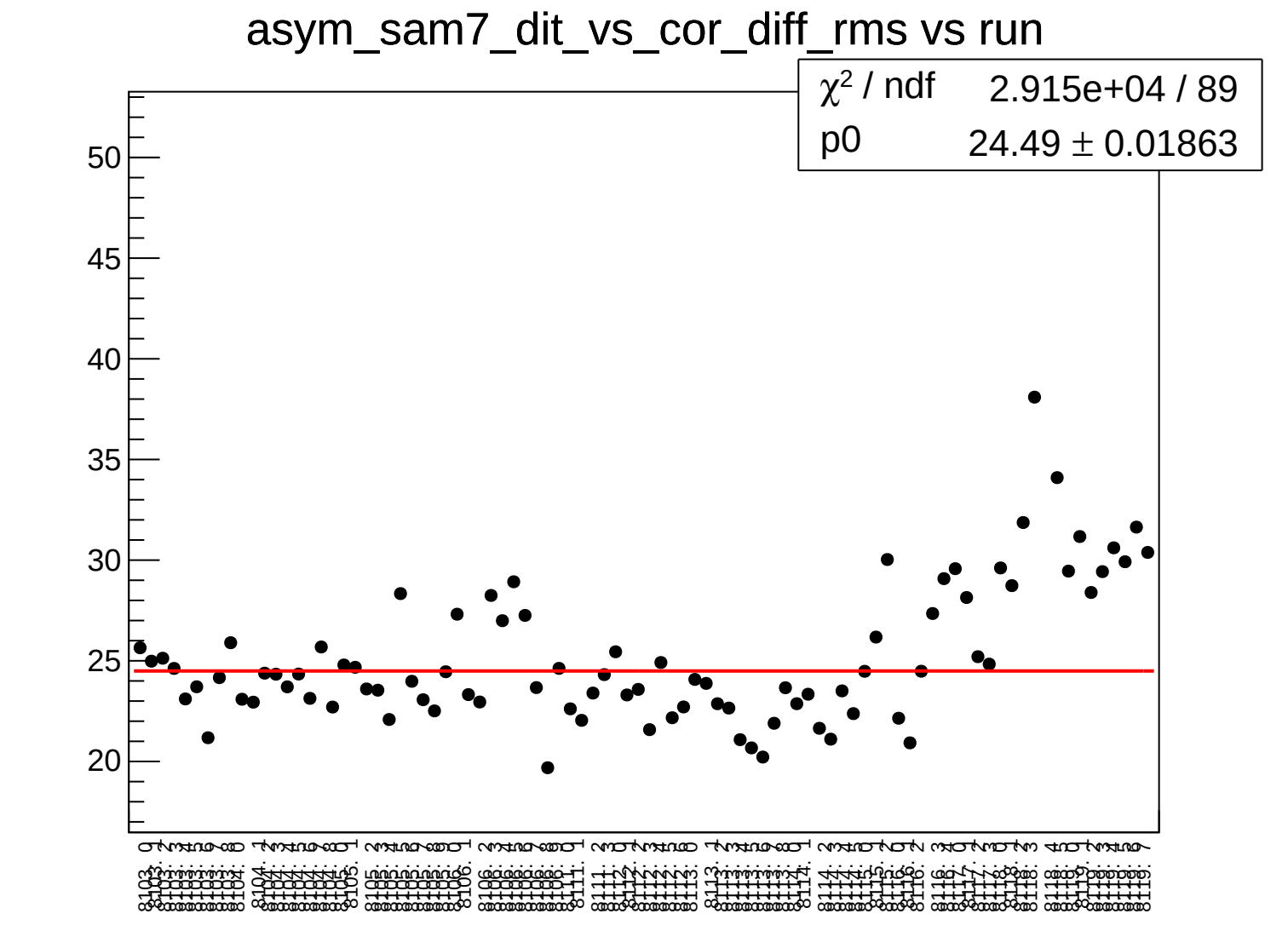

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 86.93 / 89
p0 2.218e−13 ± 9.678e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 60.26
Std Dev 0

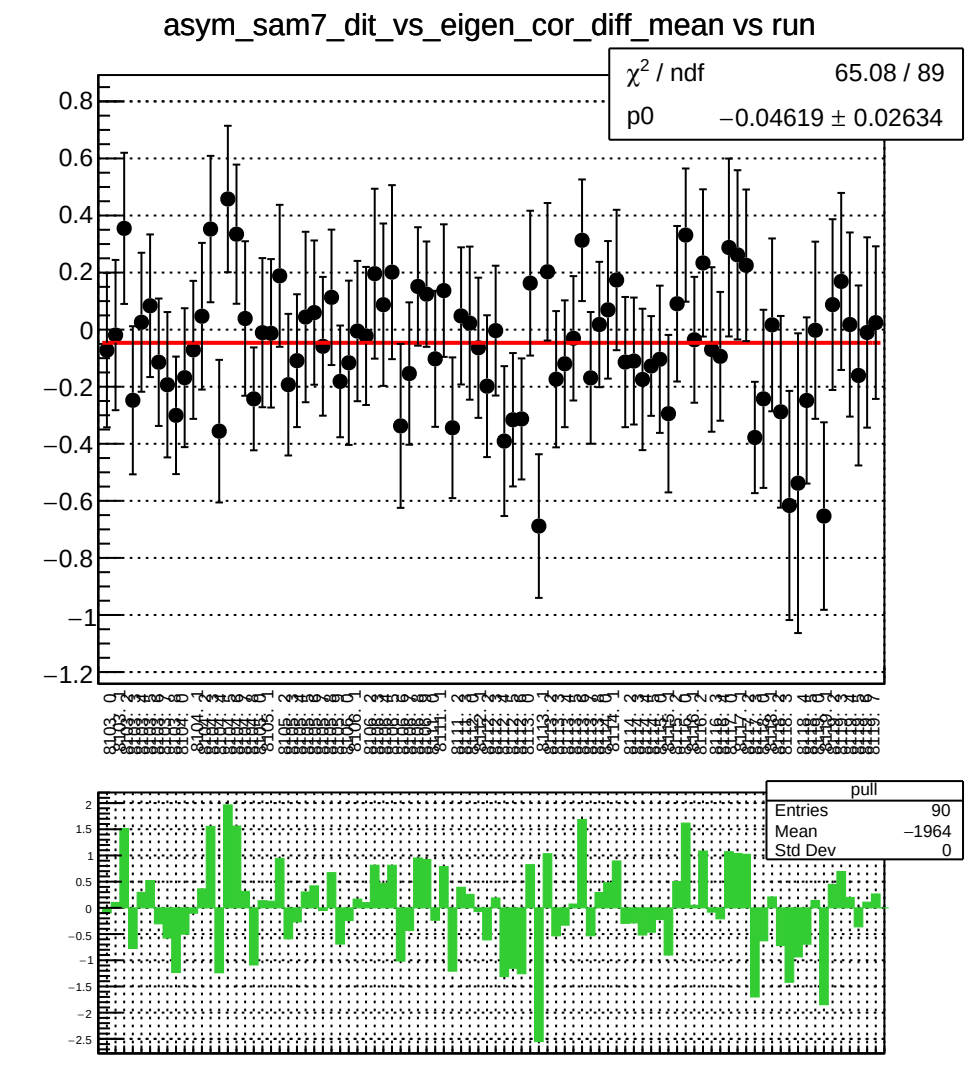

pull1D
Entries 90
Mean 0.08521
Std Dev 0.9791
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

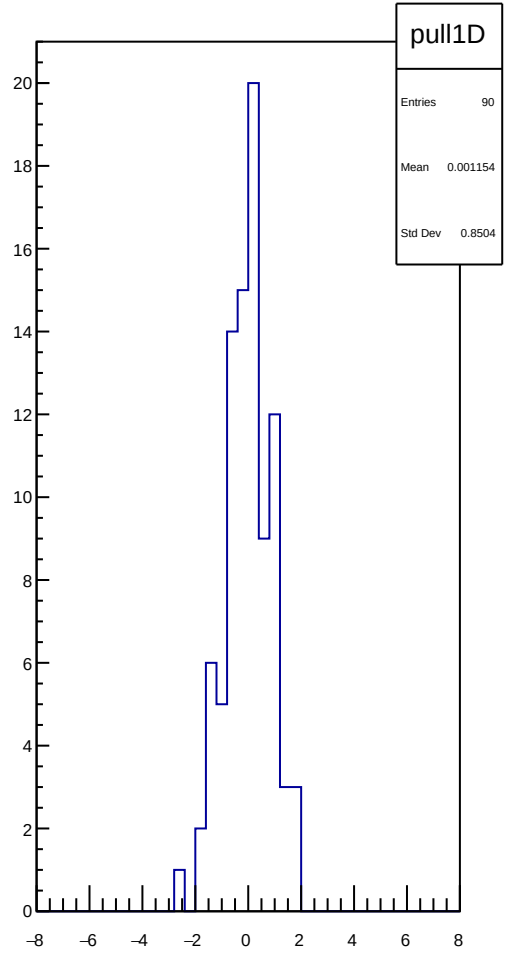

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 9.902e+05 / 89
p0 5.999e−11 ± 6.844e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

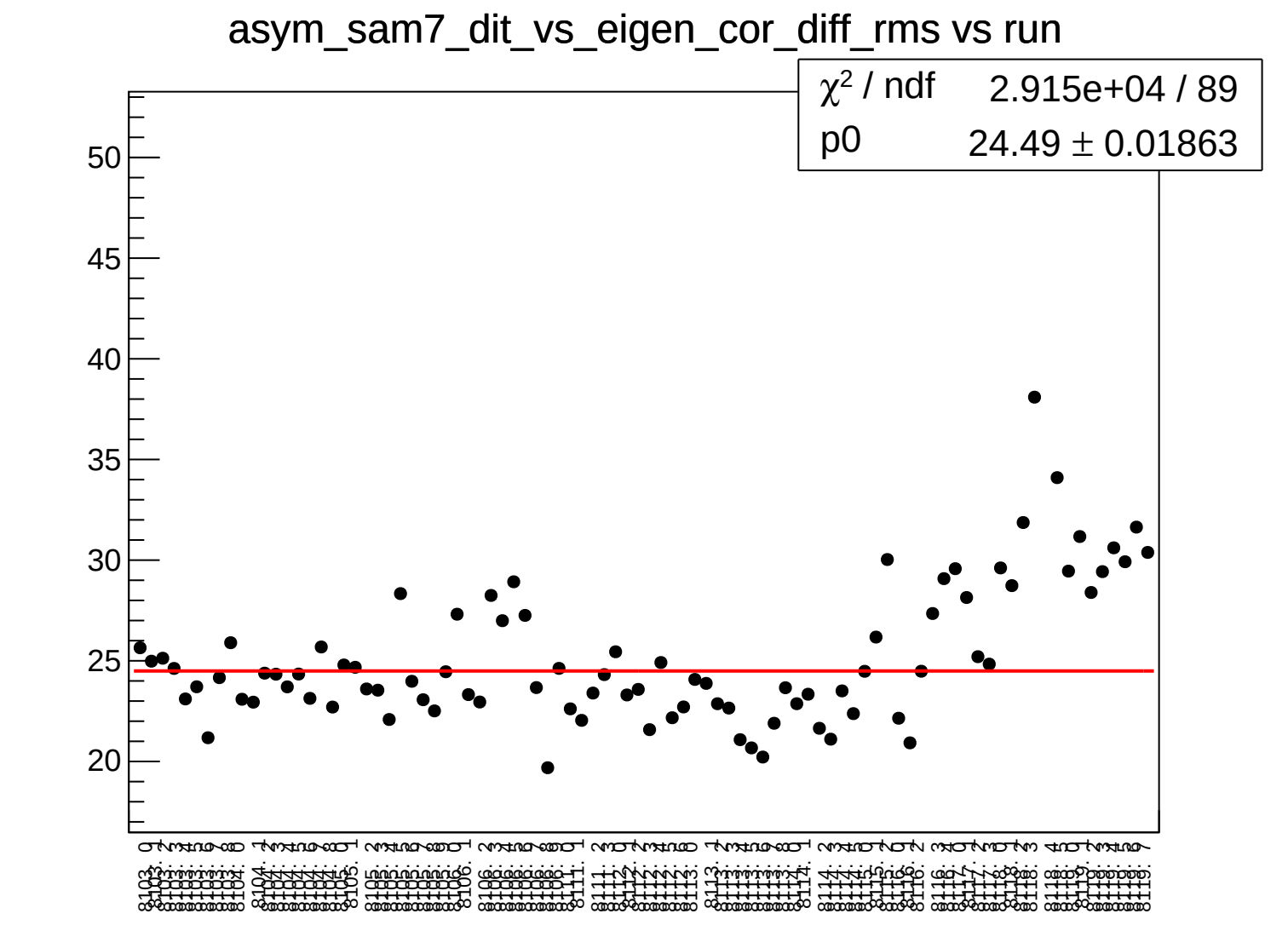

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 65.08 / 89
p0 −0.04619 ± 0.02634
pull
Entries 90
Mean −1964
Std Dev 0

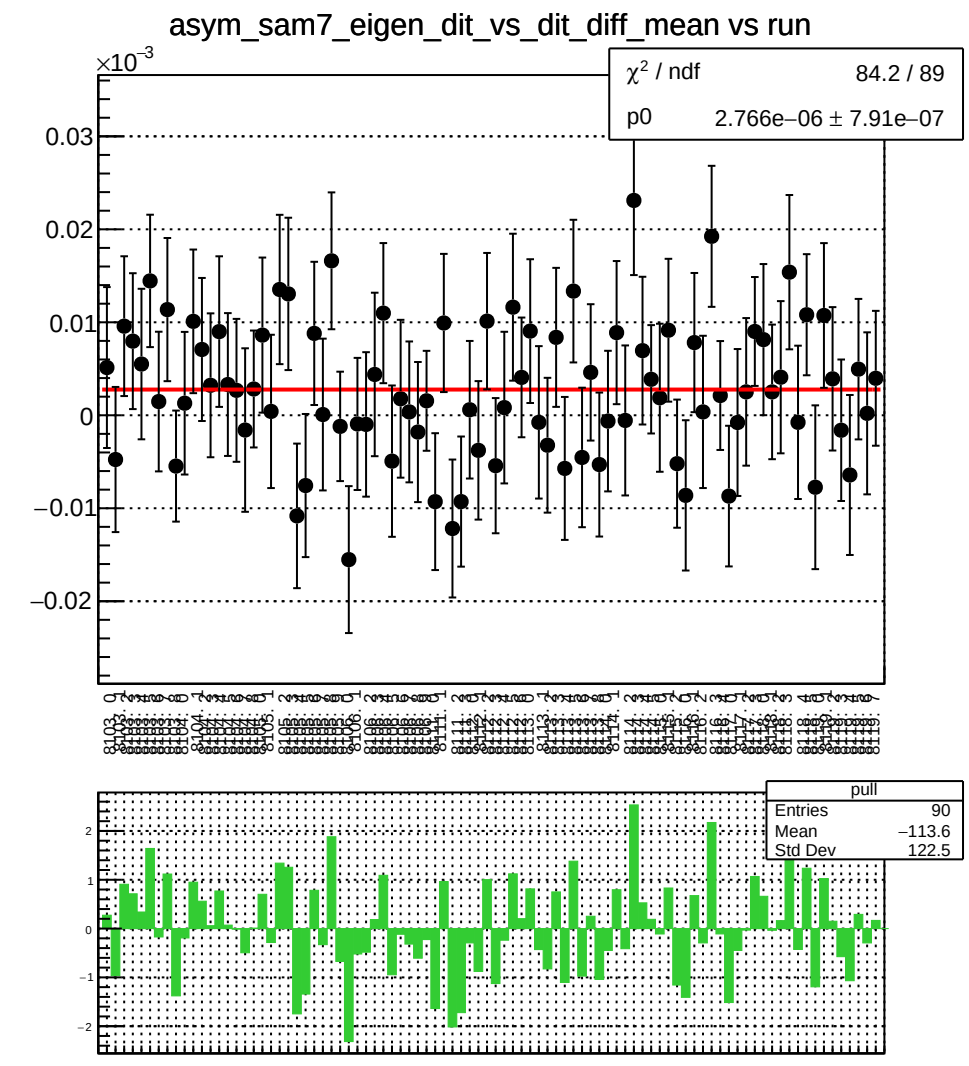

pull1D
Entries 90
Mean 0.001154
Std Dev 0.8504

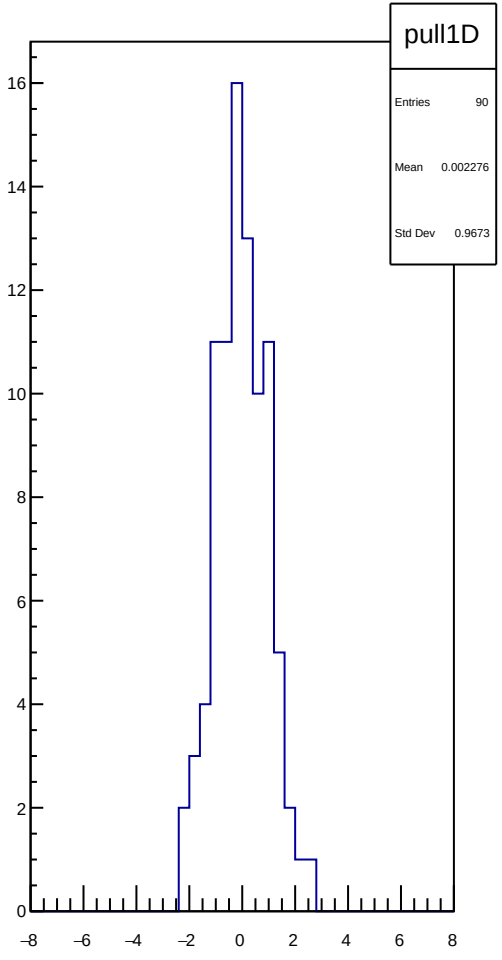

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 2.915e+04 / 89
p0 24.49 ± 0.01863
50
45
40
35
30
25
20

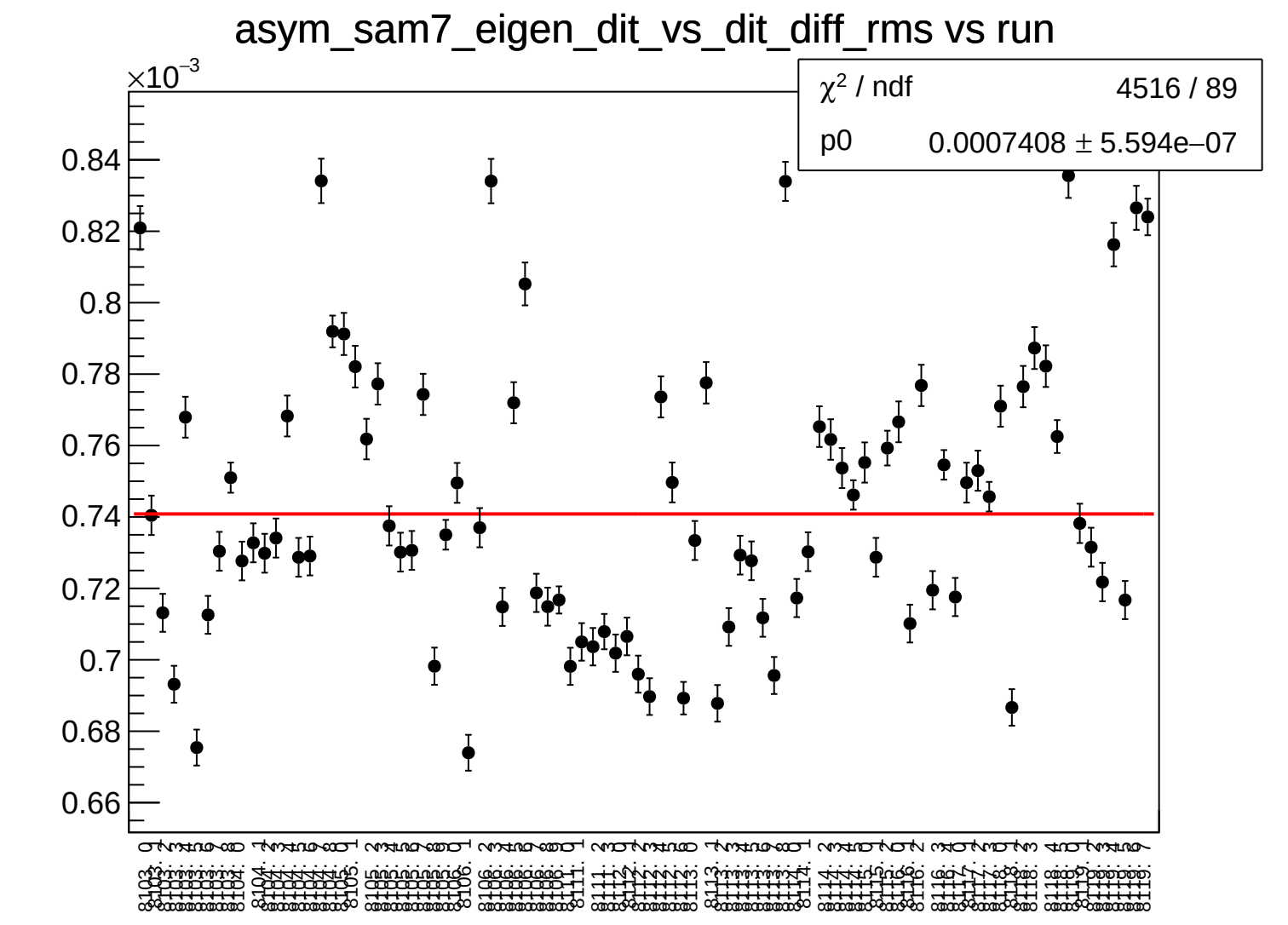

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.08 / 89
p0 −0.04619 ± 0.02634
pull
Entries 90
Mean −1964
Std Dev 0

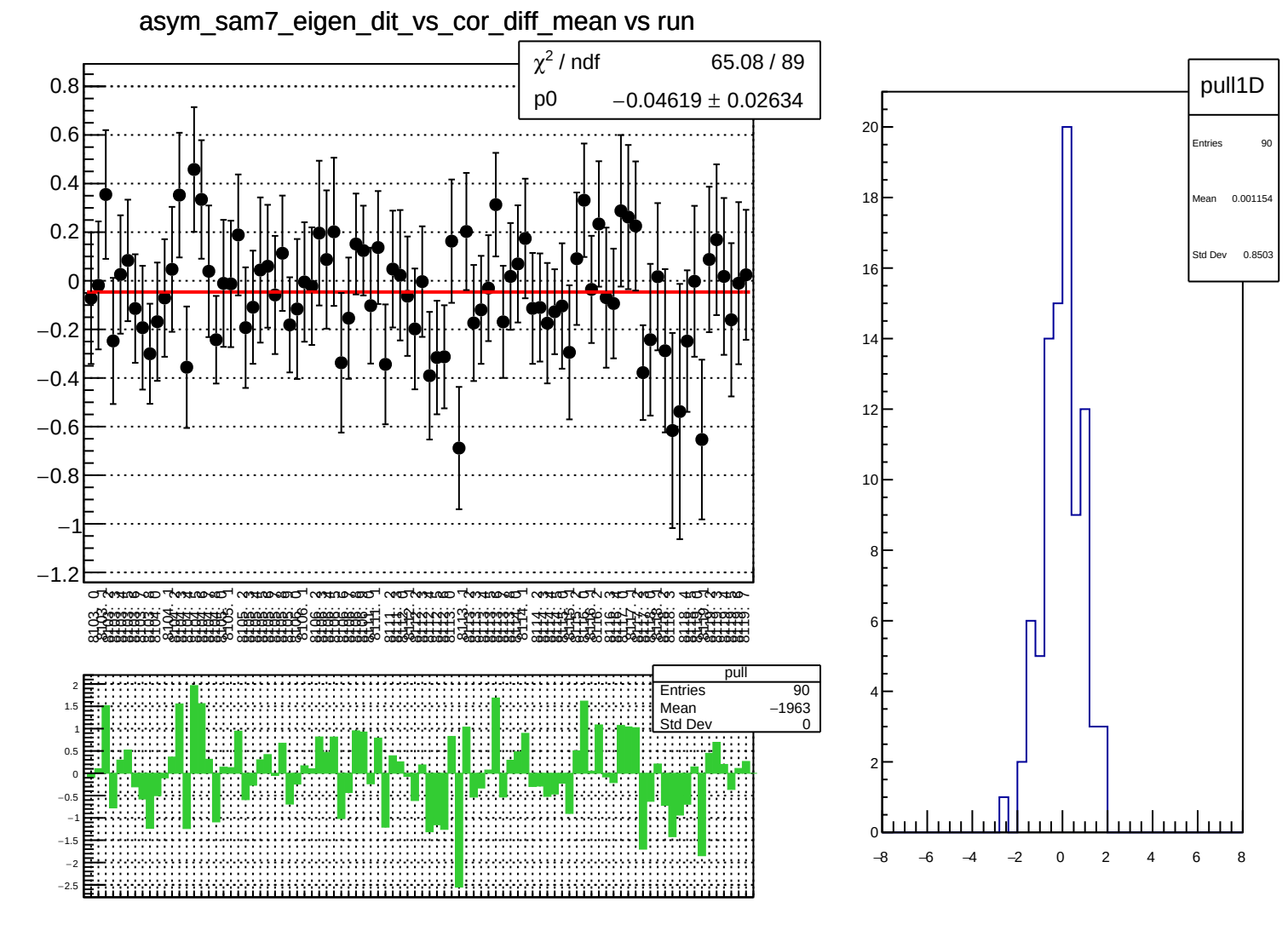

pull1D
Entries 90
Mean 0.001154
Std Dev 0.8504

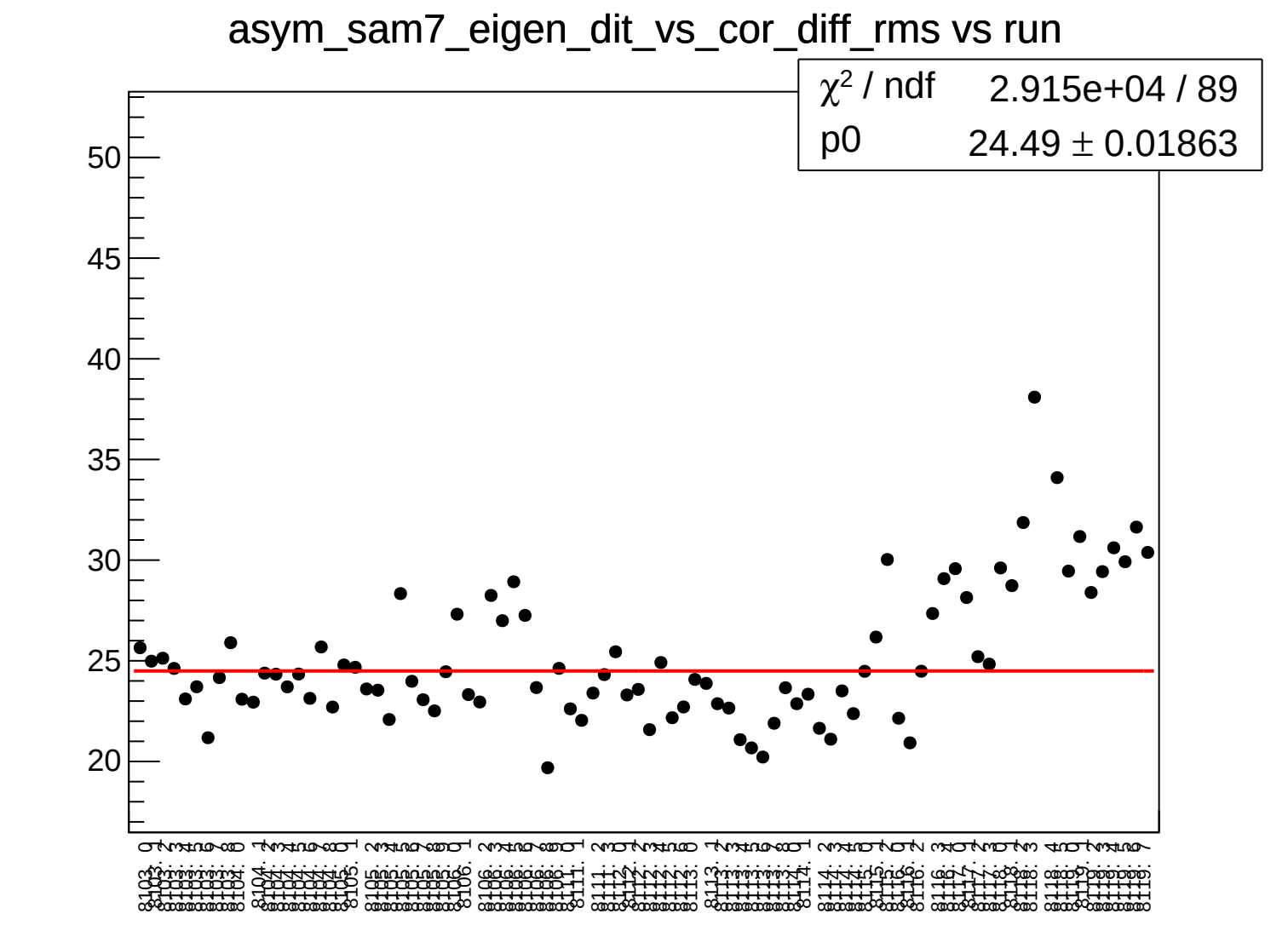

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.915e+04 / 89
p0 24.49 ± 0.01863
50
45
40
35
30
25
20

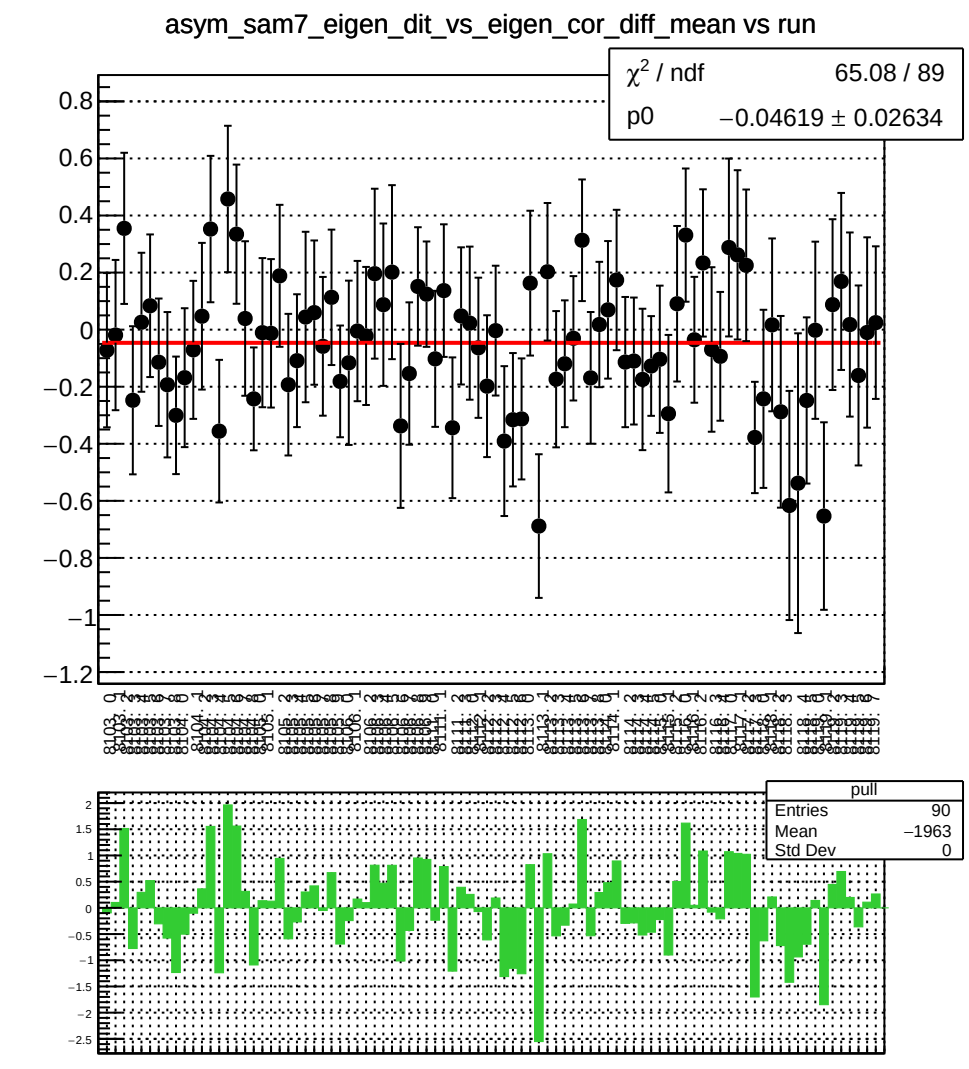

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.2 / 89
p0 2.766e−06 ± 7.91e−07
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 90
Mean −113.6
Std Dev 122.5
2
1
0
−1
−2

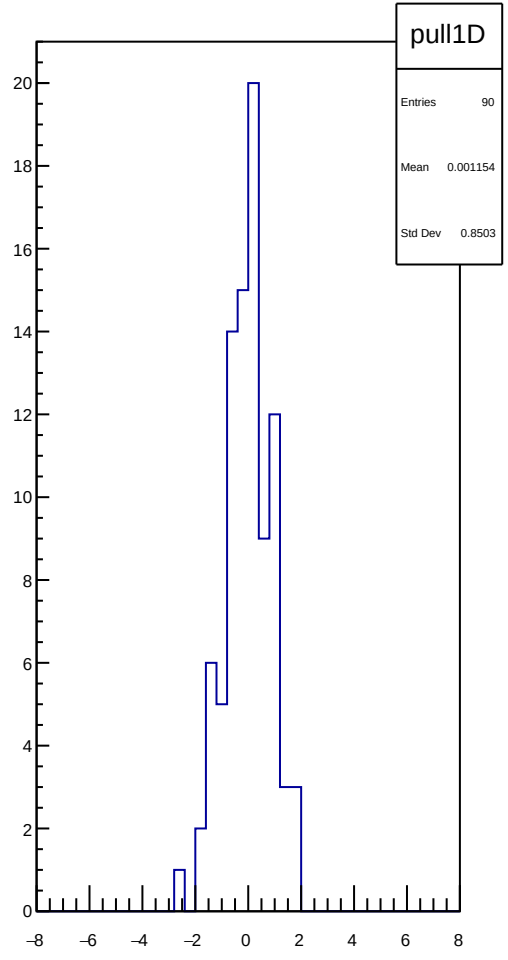

pull1D
Entries 90
Mean 0.002276
Std Dev 0.9673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

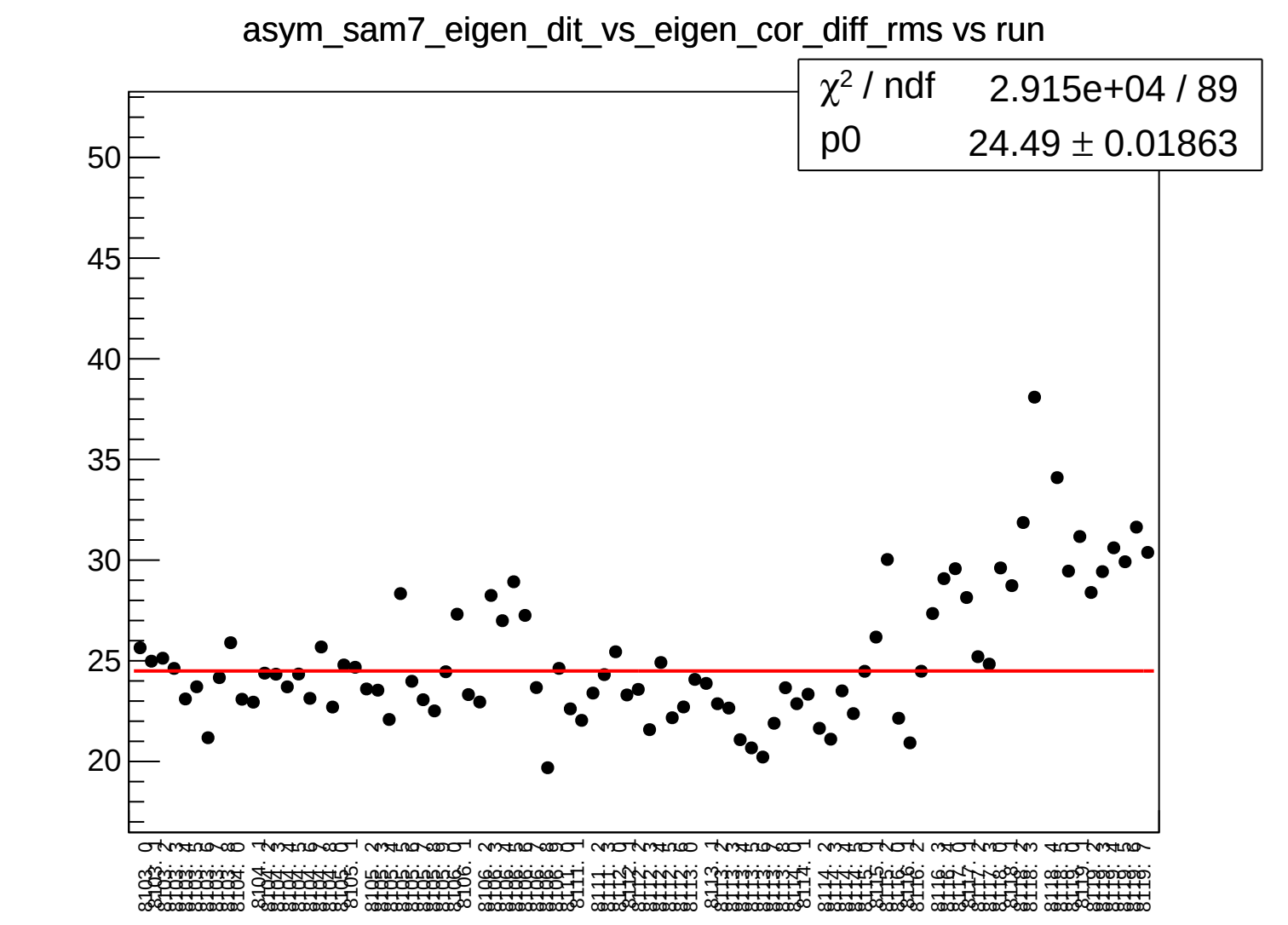

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4516 / 89
p0 0.0007408 ± 5.594e−07
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66

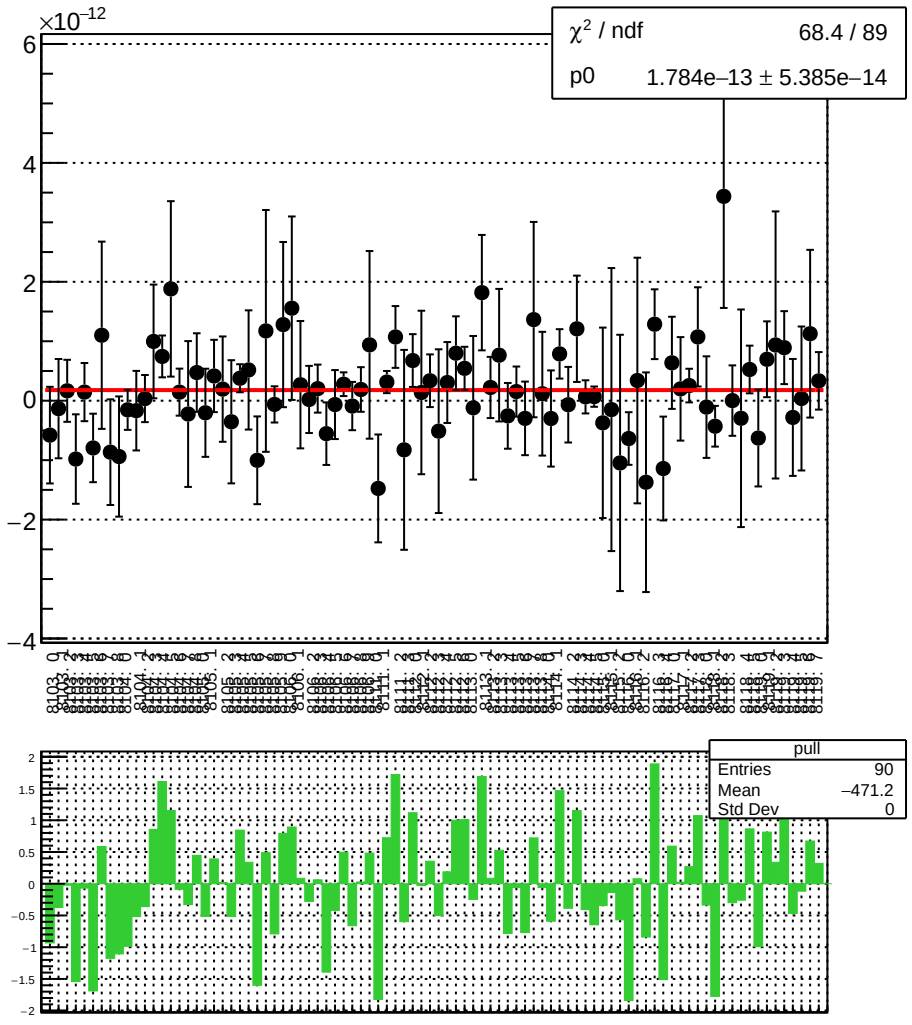

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.08 / 89
p0 −0.04619 ± 0.02634
pull
Entries 90
Mean −1963
Std Dev 0
pull1D
Entries 90
Mean 0.001154
Std Dev 0.8503

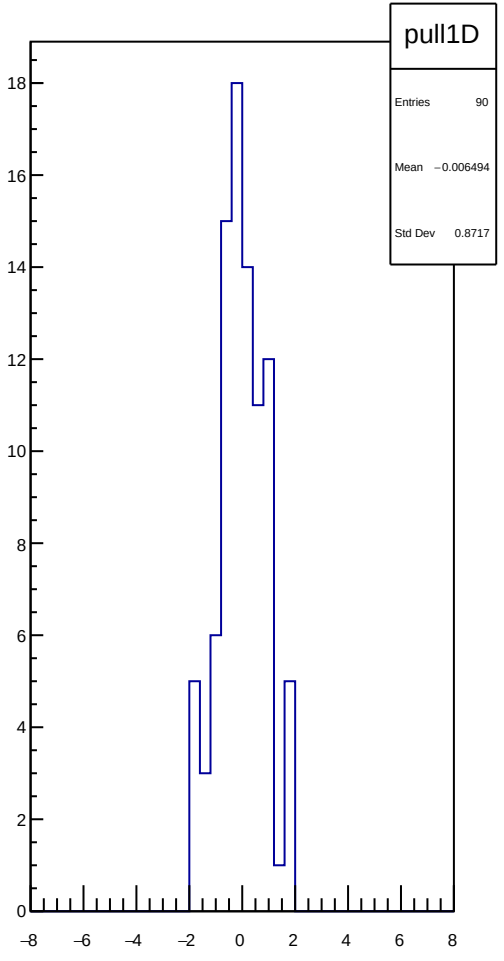

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.915e+04 / 89
p0 24.49 ± 0.01863
50
45
40
35
30
25
20

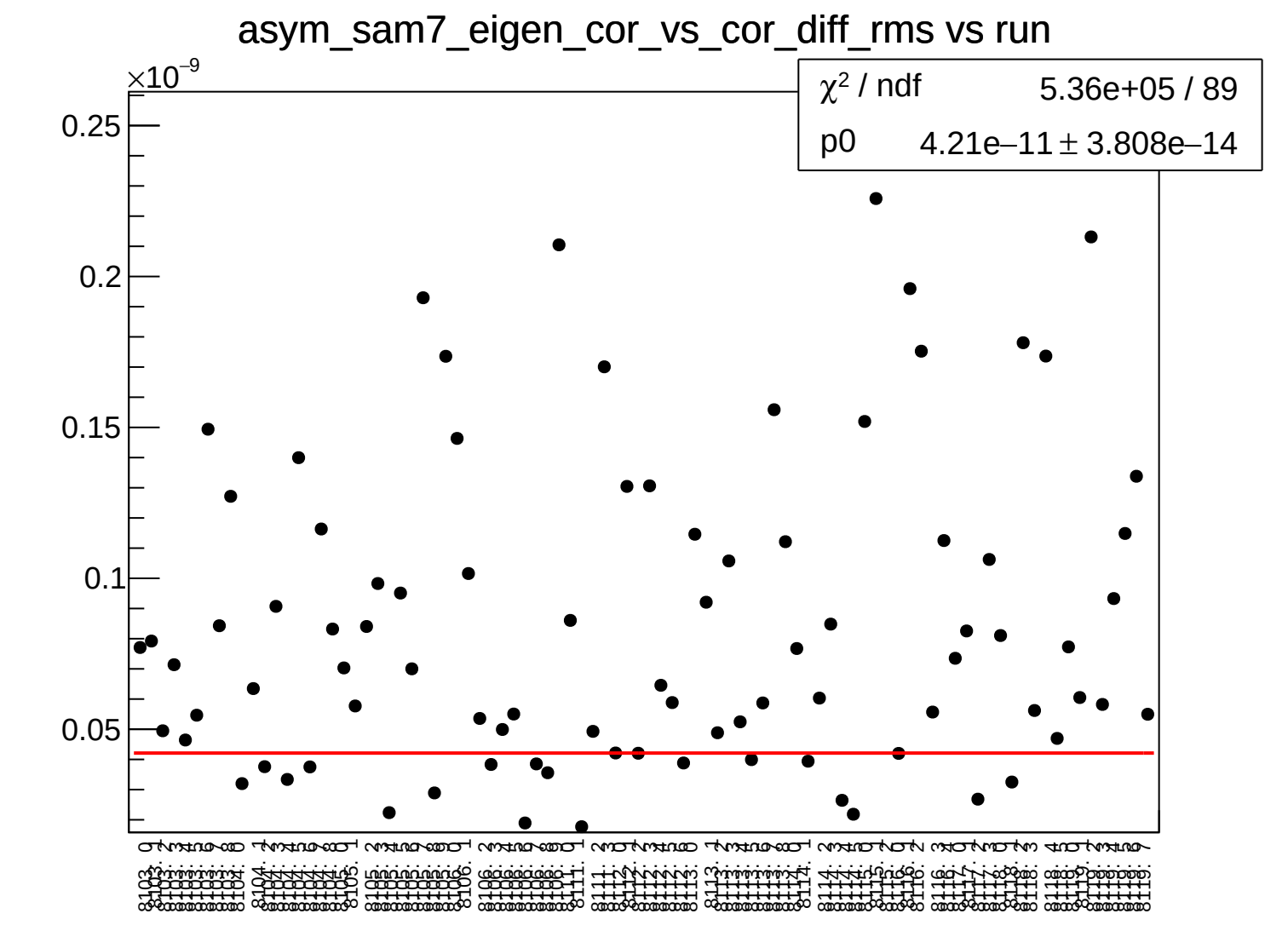

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.08 / 89
p0 −0.04619 ± 0.02634
pull
Entries 90
Mean −1963
Std Dev 0

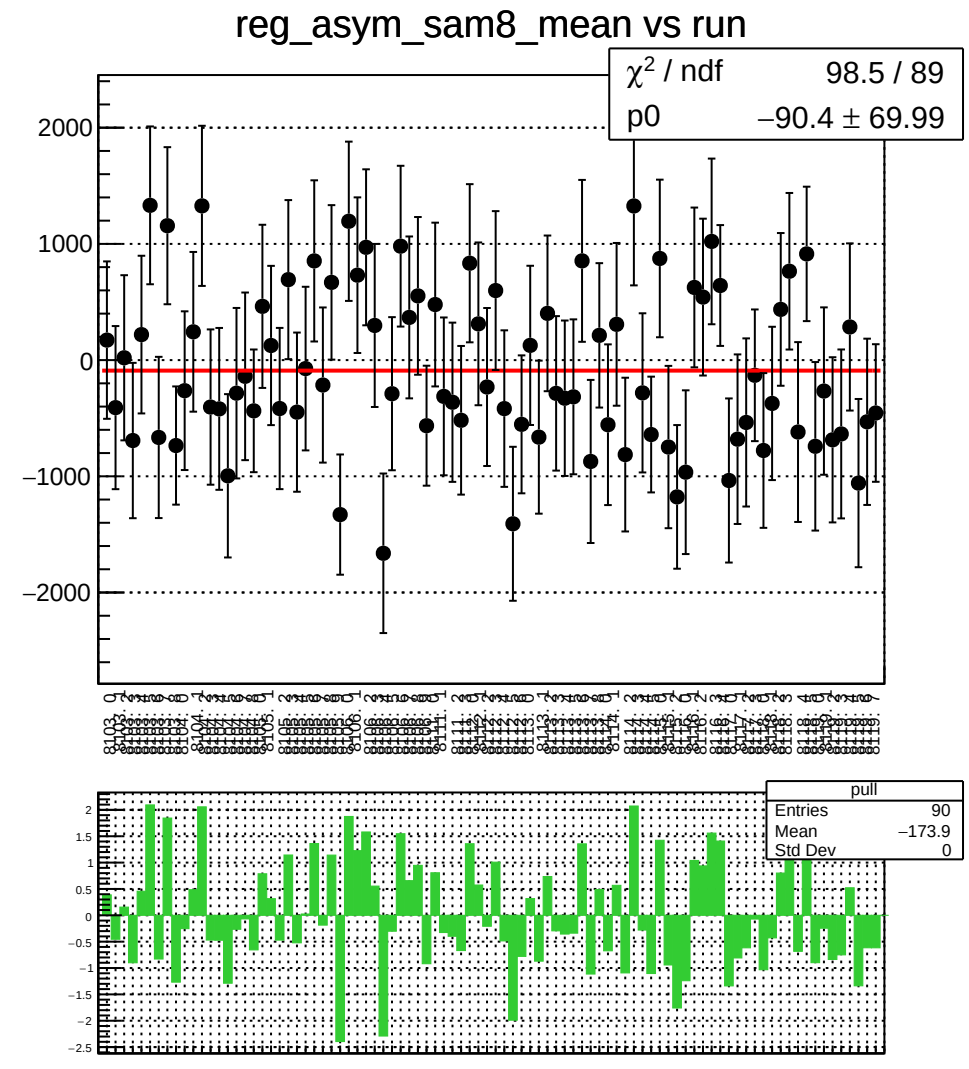

pull1D
Entries 90
Mean 0.001154
Std Dev 0.8503

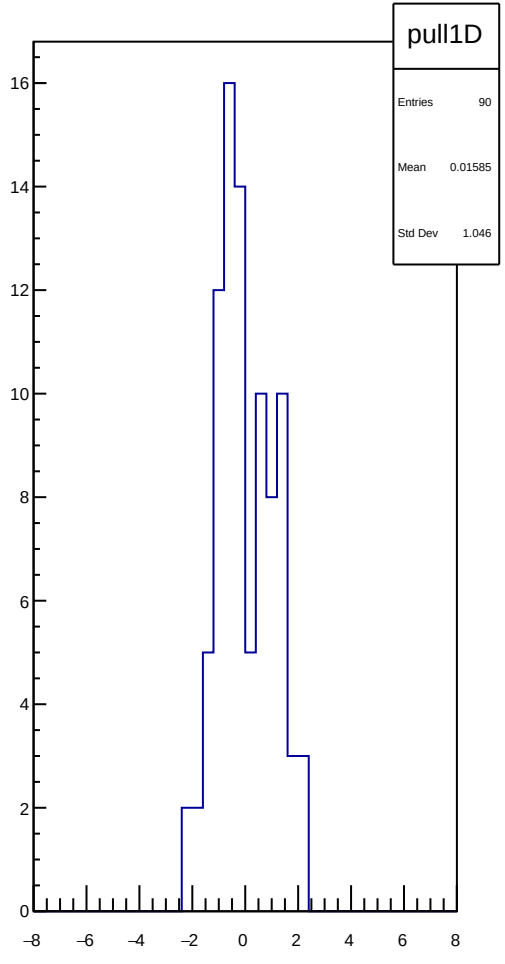

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.915e+04 / 89
p0 24.49 ± 0.01863
50
45
40
35
30
25
20

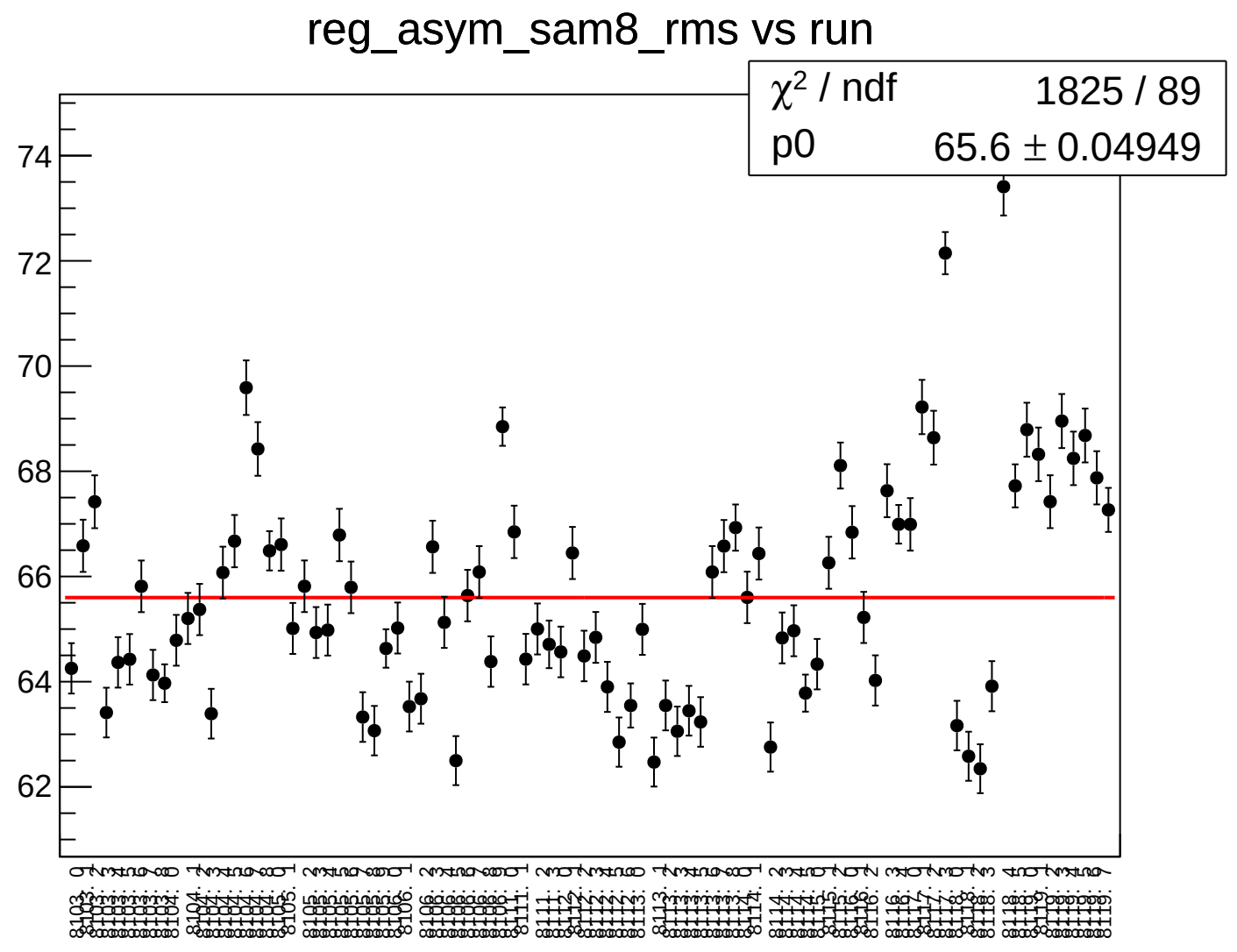

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.4 / 89
p0 1.784e−13 ± 5.385e−14
pull
Entries 90
Mean −471.2
Std Dev 0

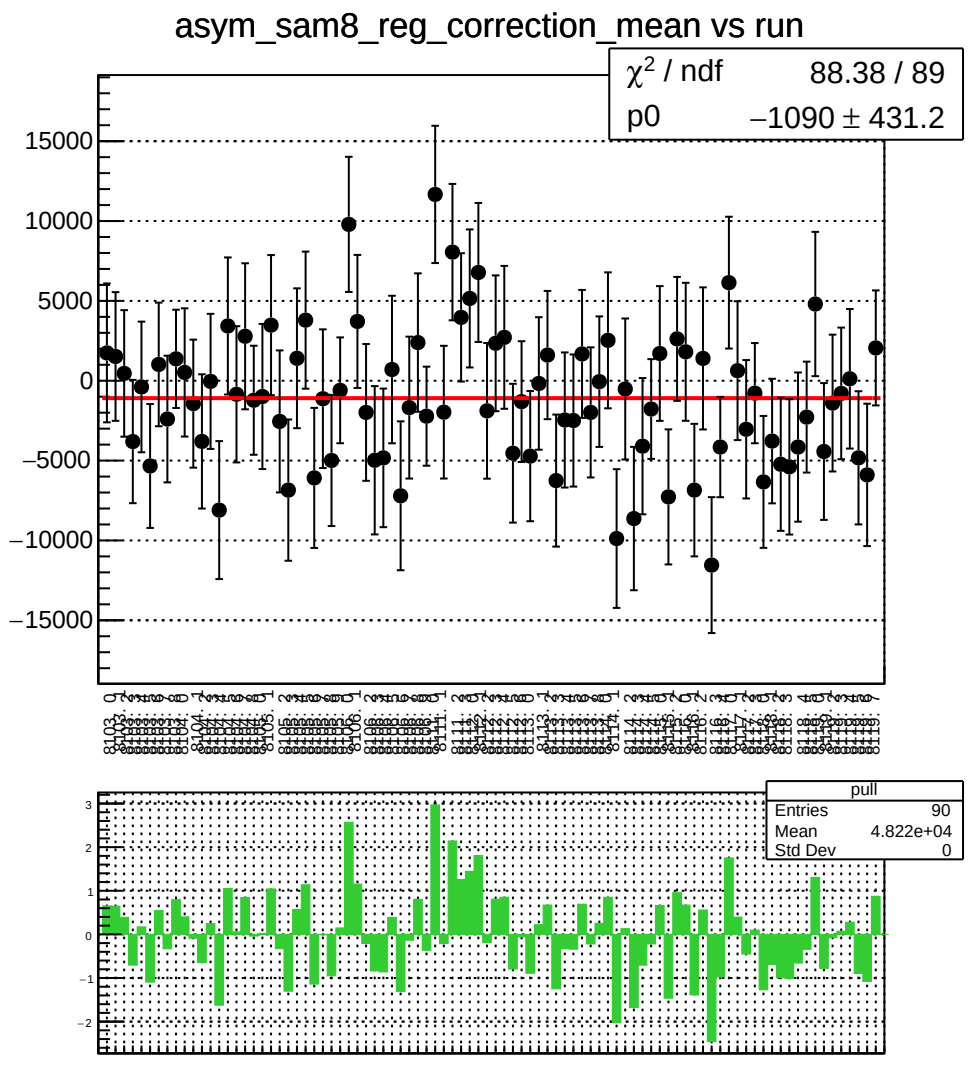

pull1D
Entries 90
Mean −0.006494
Std Dev 0.8717

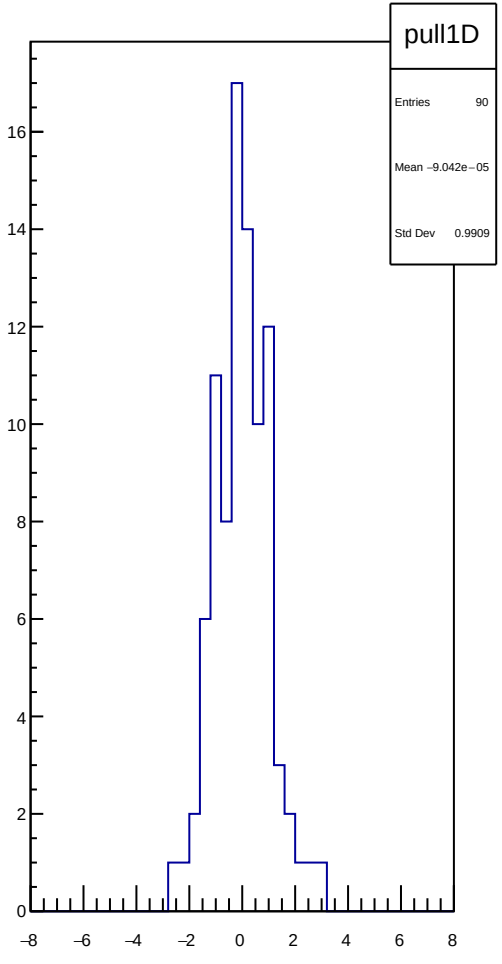

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.36e+05 / 89
p0 4.21e−11 ± 3.808e−14
0.25
0.2
0.15
0.1
0.05


reg_asym_sam8_mean vs run
χ² / ndf 98.5 / 89
p0 −90.4 ± 69.99
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −173.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.01585
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam8_rms vs run
χ² / ndf 1825 / 89
p0 65.6 ± 0.04949
74
72
70
68
66
64
62


asym_sam8_reg_correction_mean vs run
χ² / ndf 88.38 / 89
p0 −1090 ± 431.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 4.822e+04
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −9.042e−05
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
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−4
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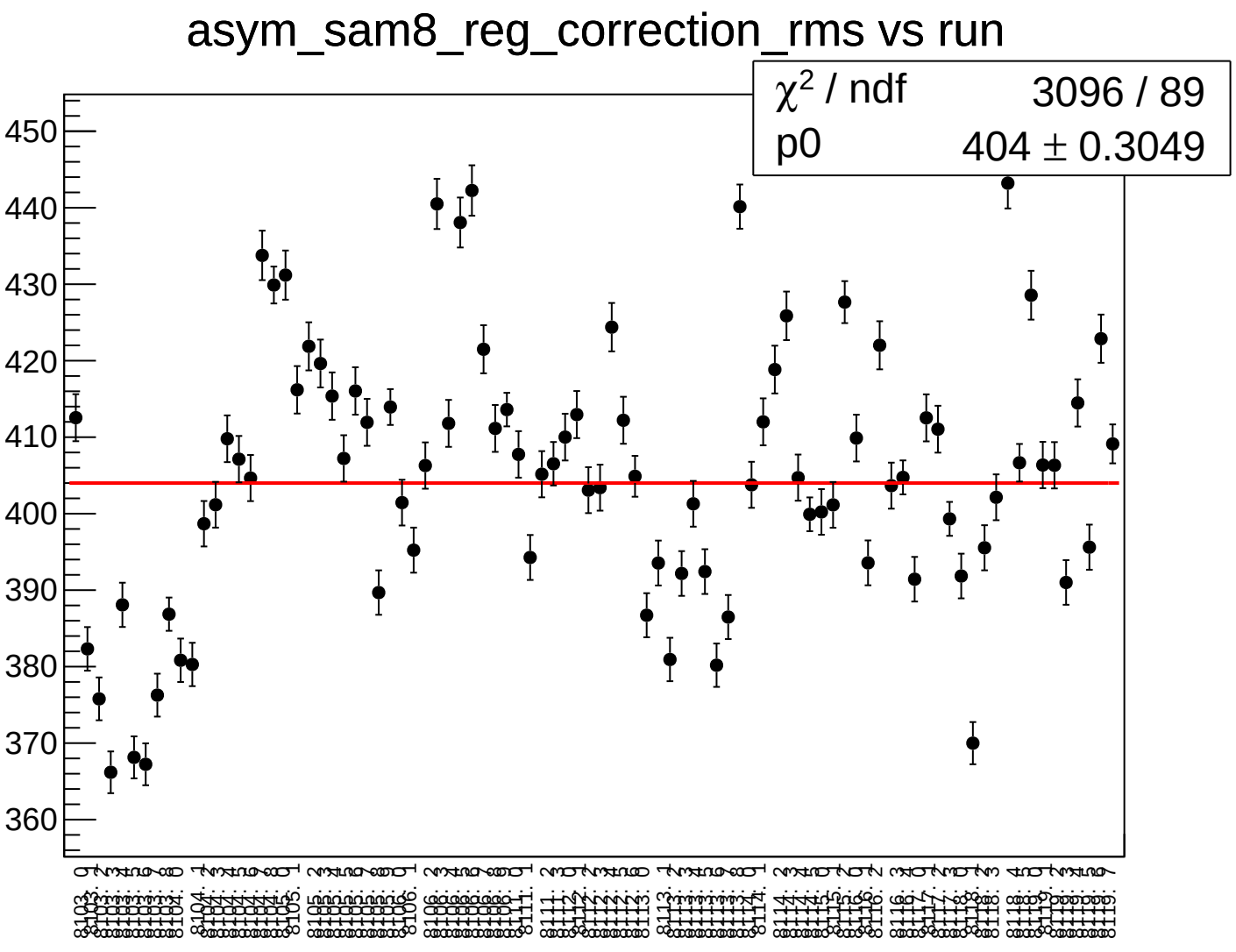
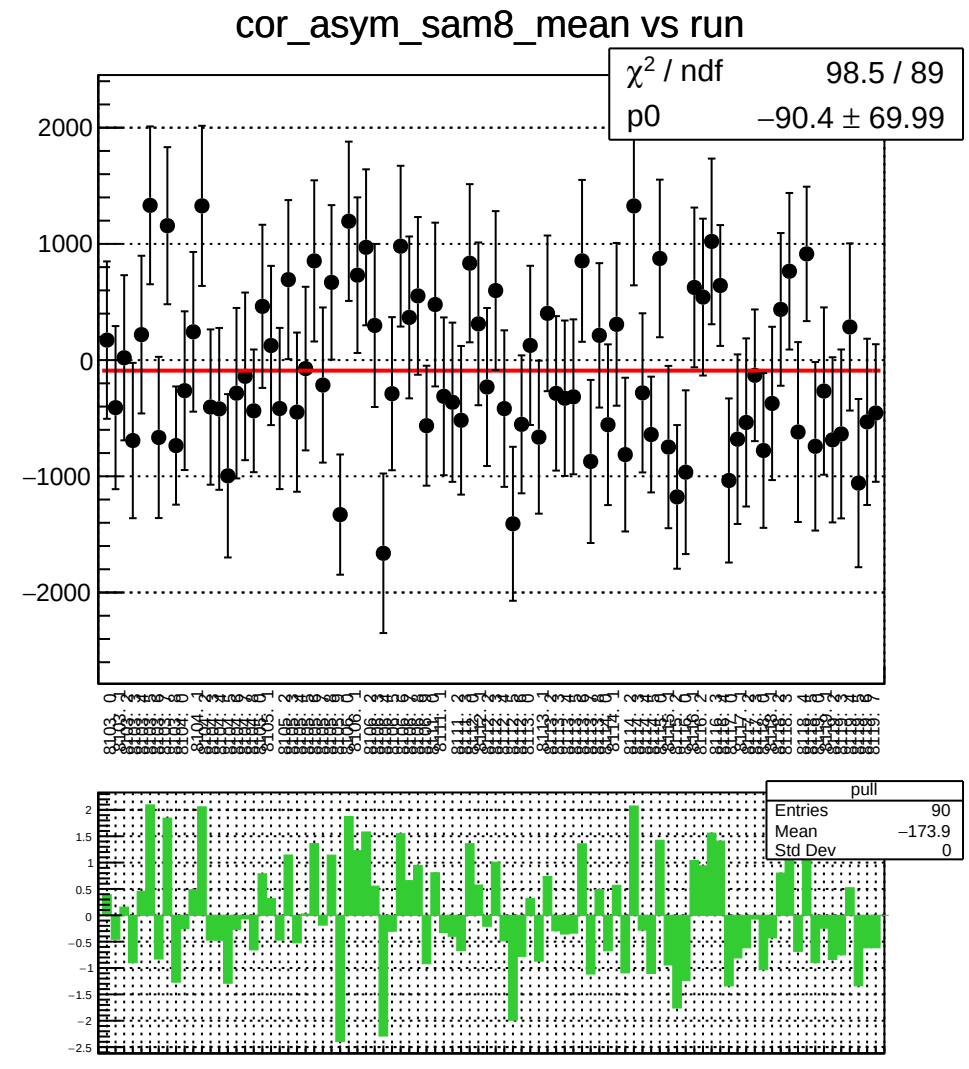
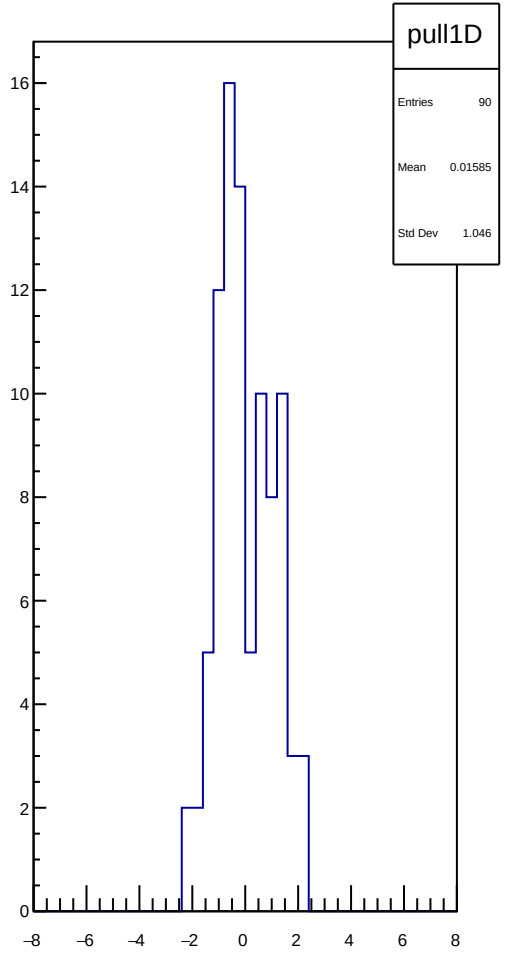
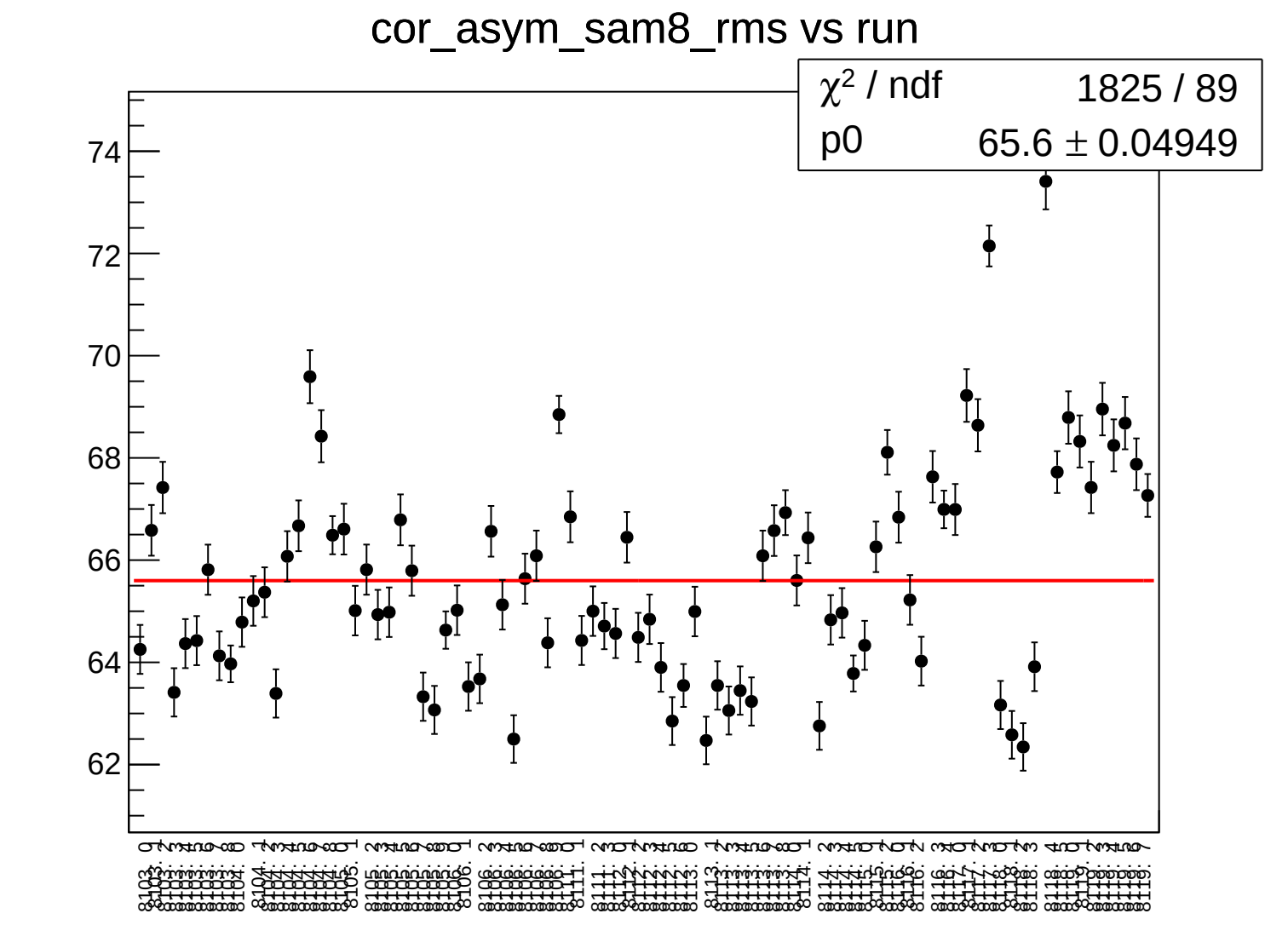
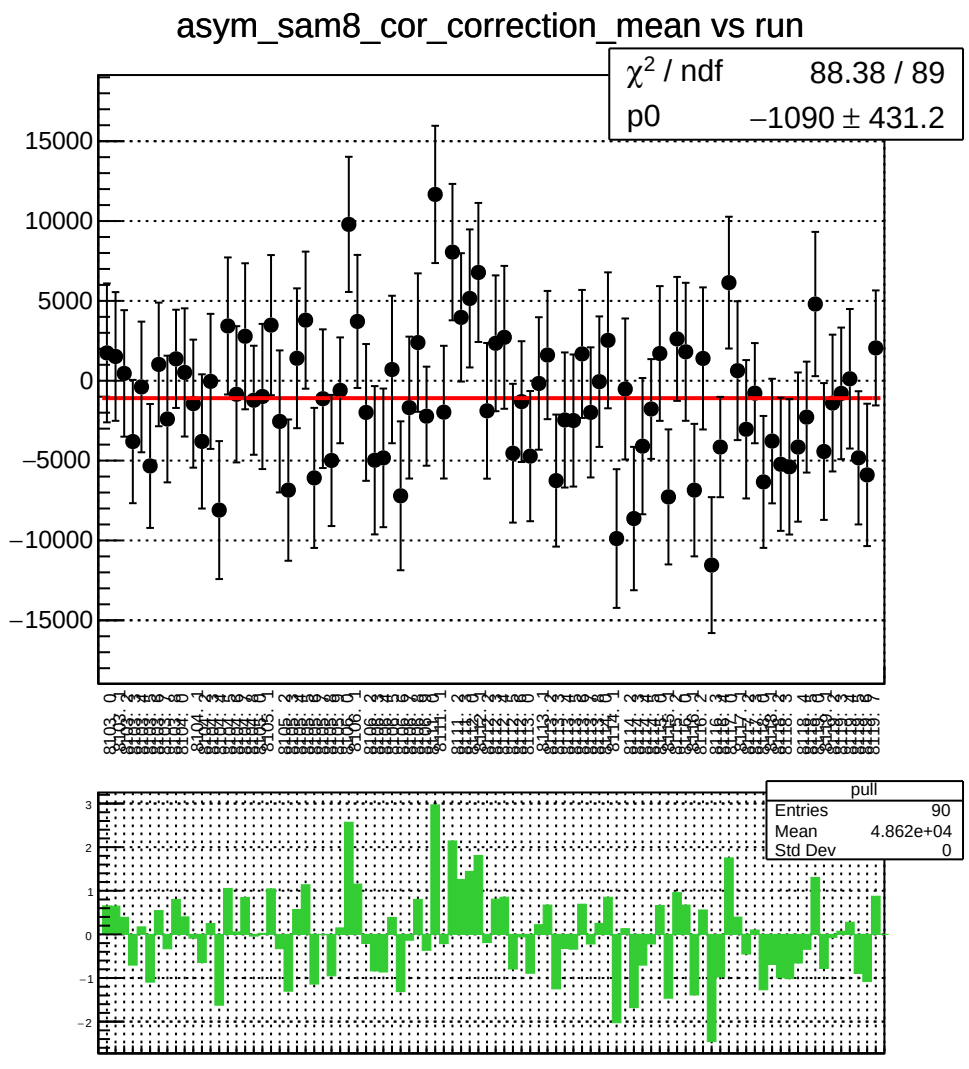
0
2
4
6
8

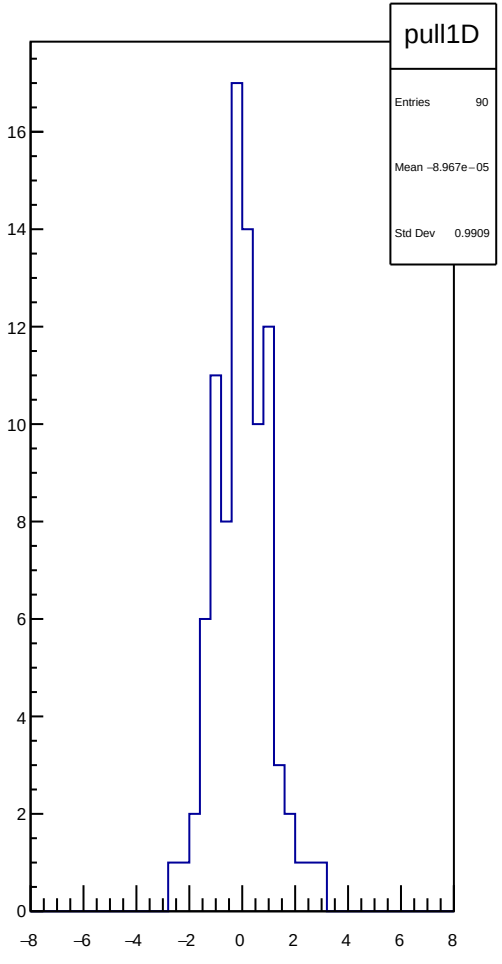

asym_sam8_reg_correction_rms vs run
χ² / ndf 3096 / 89
p0 404 ± 0.3049
450
440
430
420
410
400
390
380
370
360


cor_asym_sam8_mean vs run
χ² / ndf 98.5 / 89
p0 −90.4 ± 69.99
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −173.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.01585
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam8_rms vs run
χ² / ndf 1825 / 89
p0 65.6 ± 0.04949
74
72
70
68
66
64
62


asym_sam8_cor_correction_mean vs run
χ² / ndf 88.38 / 89
p0 −1090 ± 431.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 4.862e+04
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −8.967e−05
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
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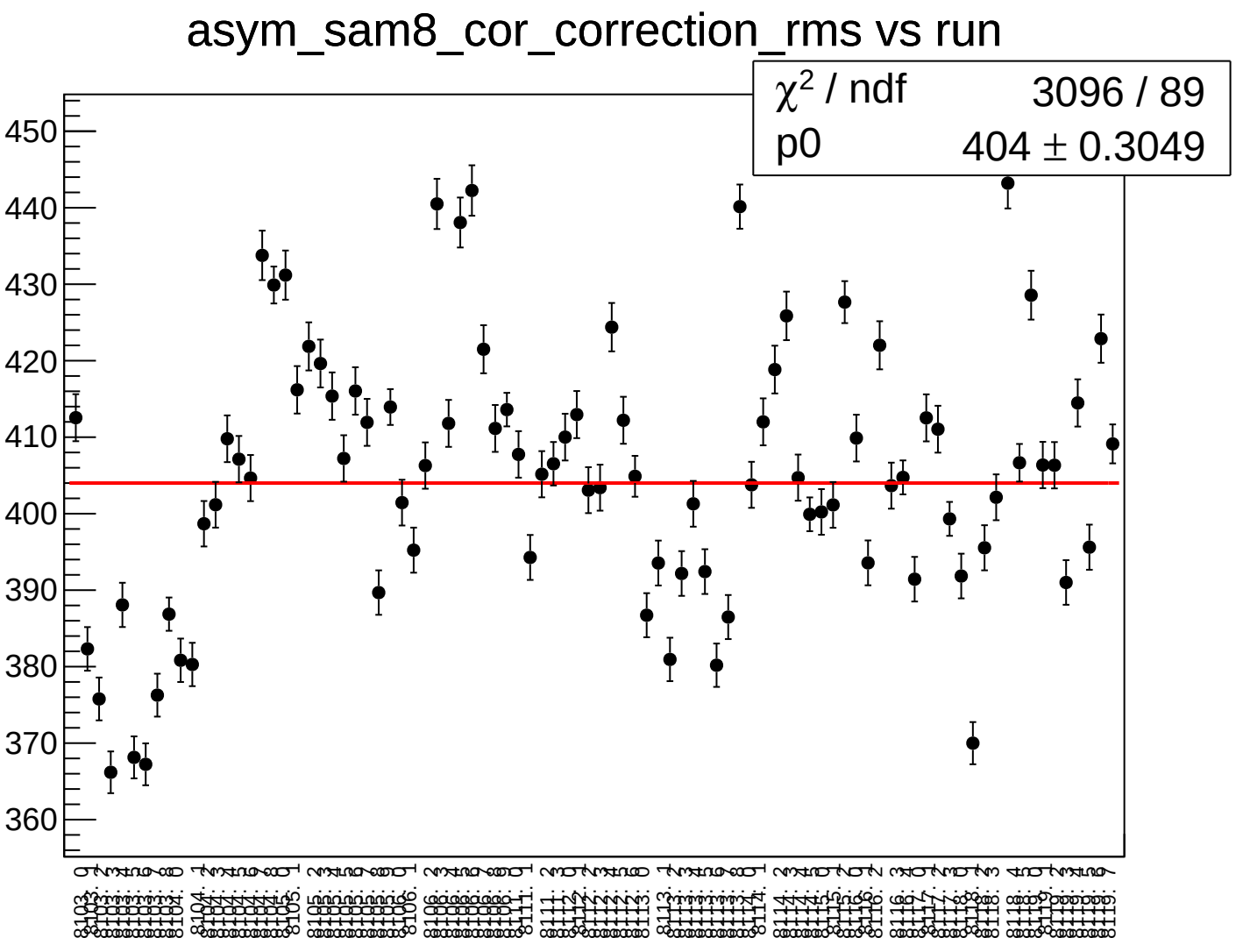
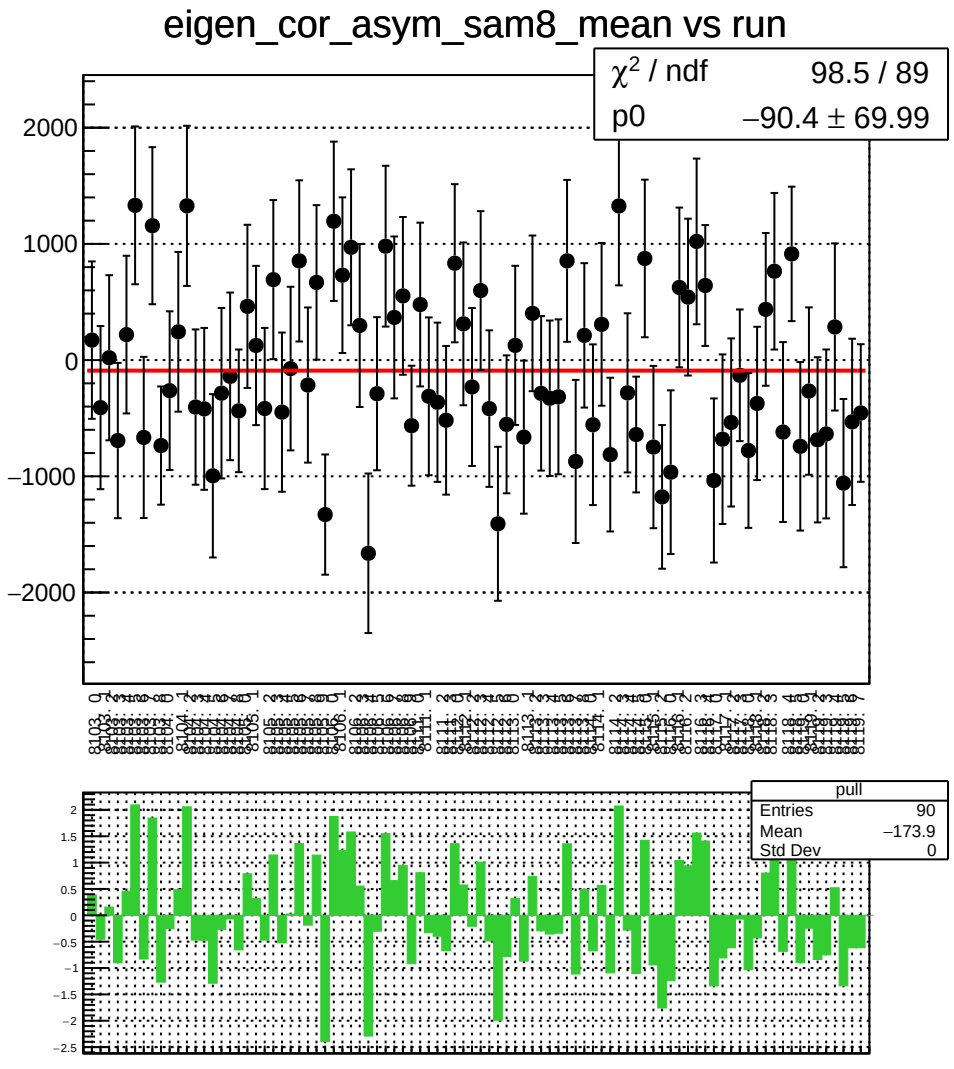
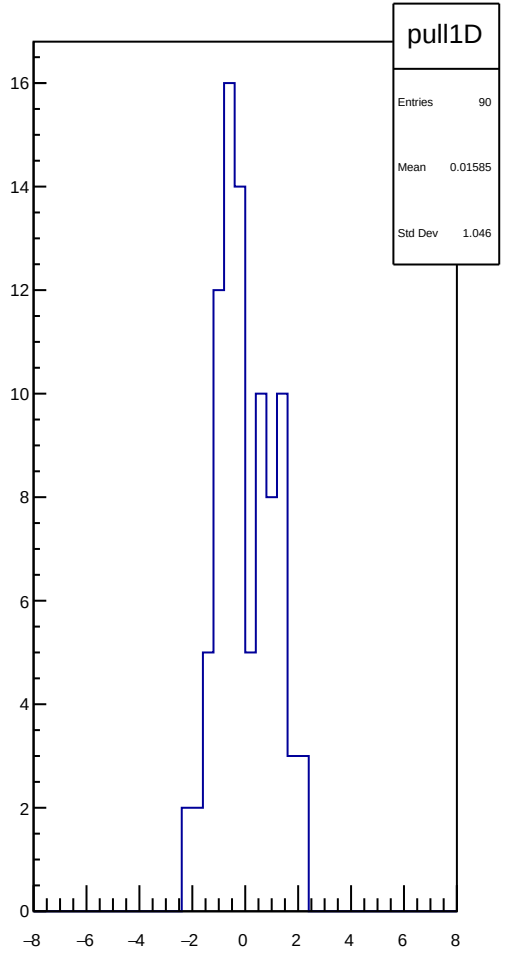
2
4
6
8


asym_sam8_cor_correction_rms vs run
χ² / ndf 3096 / 89
p0 404 ± 0.3049
450
440
430
420
410
400
390
380
370
360


eigen_cor_asym_sam8_mean vs run
χ² / ndf 98.5 / 89
p0 −90.4 ± 69.99
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −173.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 90
Mean 0.01585
Std Dev 1.046
16
14
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10
8
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2
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−8
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2
4
6
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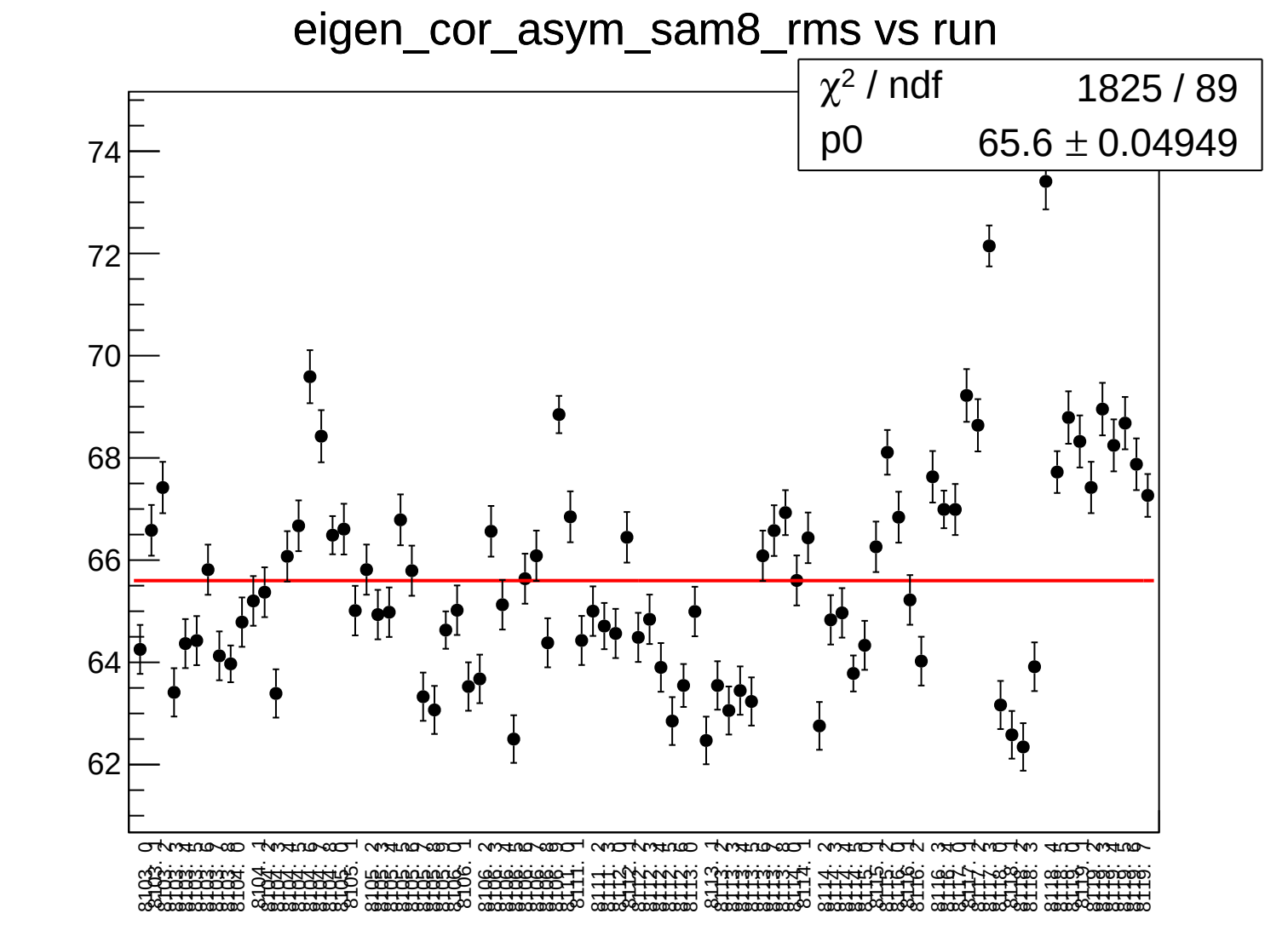
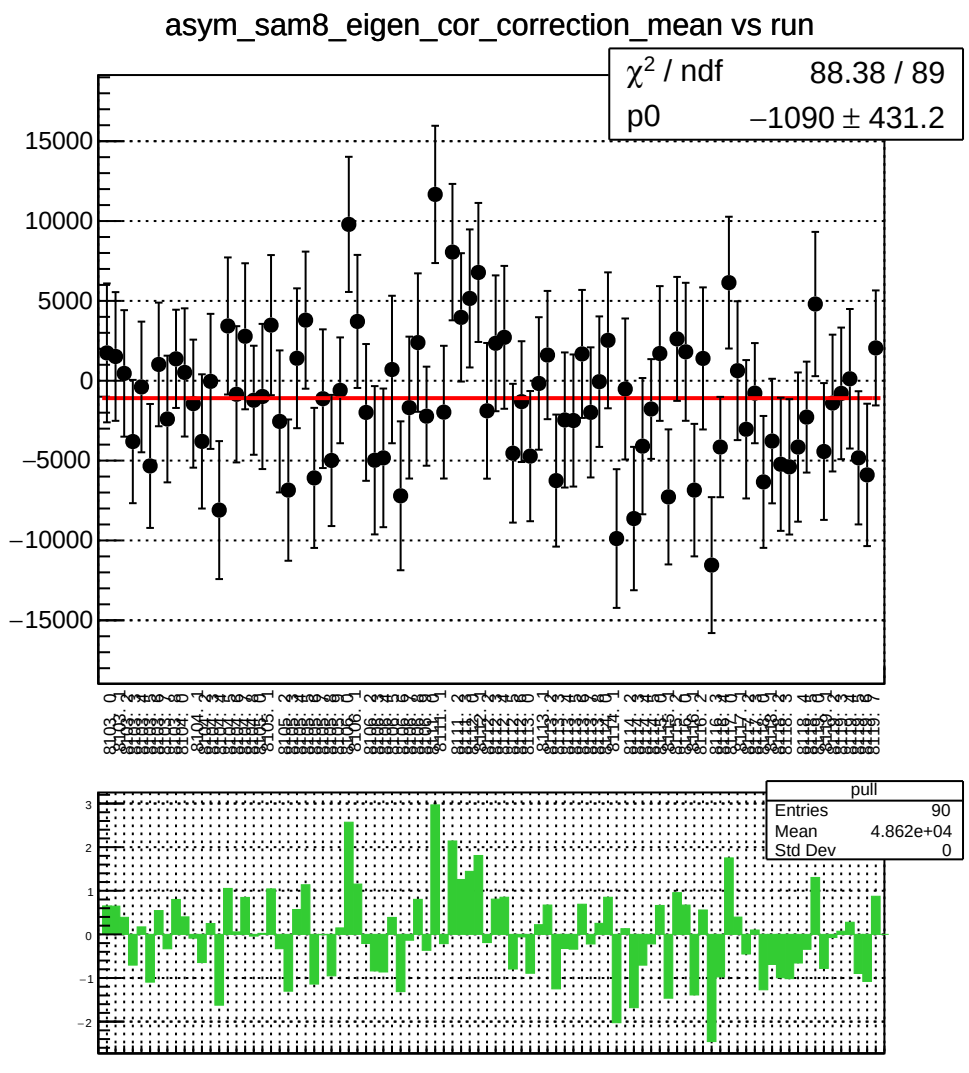
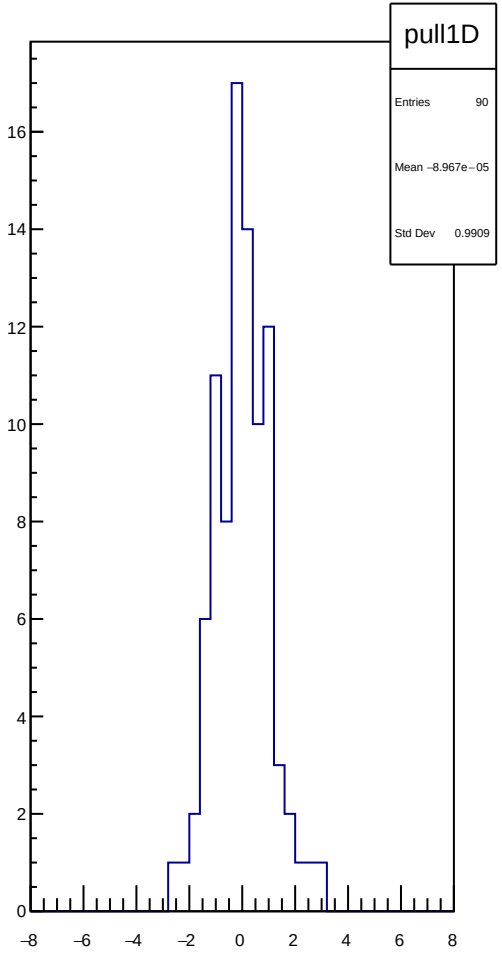

eigen_cor_asym_sam8_rms vs run
χ² / ndf 1825 / 89
p0 65.6 ± 0.04949
74
72
70
68
66
64
62


asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 88.38 / 89
p0 −1090 ± 431.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 4.862e+04
Std Dev 0


pull1D
Entries 90
Mean −8.967e−05
Std Dev 0.9909
16
14
12
10
8
6
4
2
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−8
−6
−4
−2
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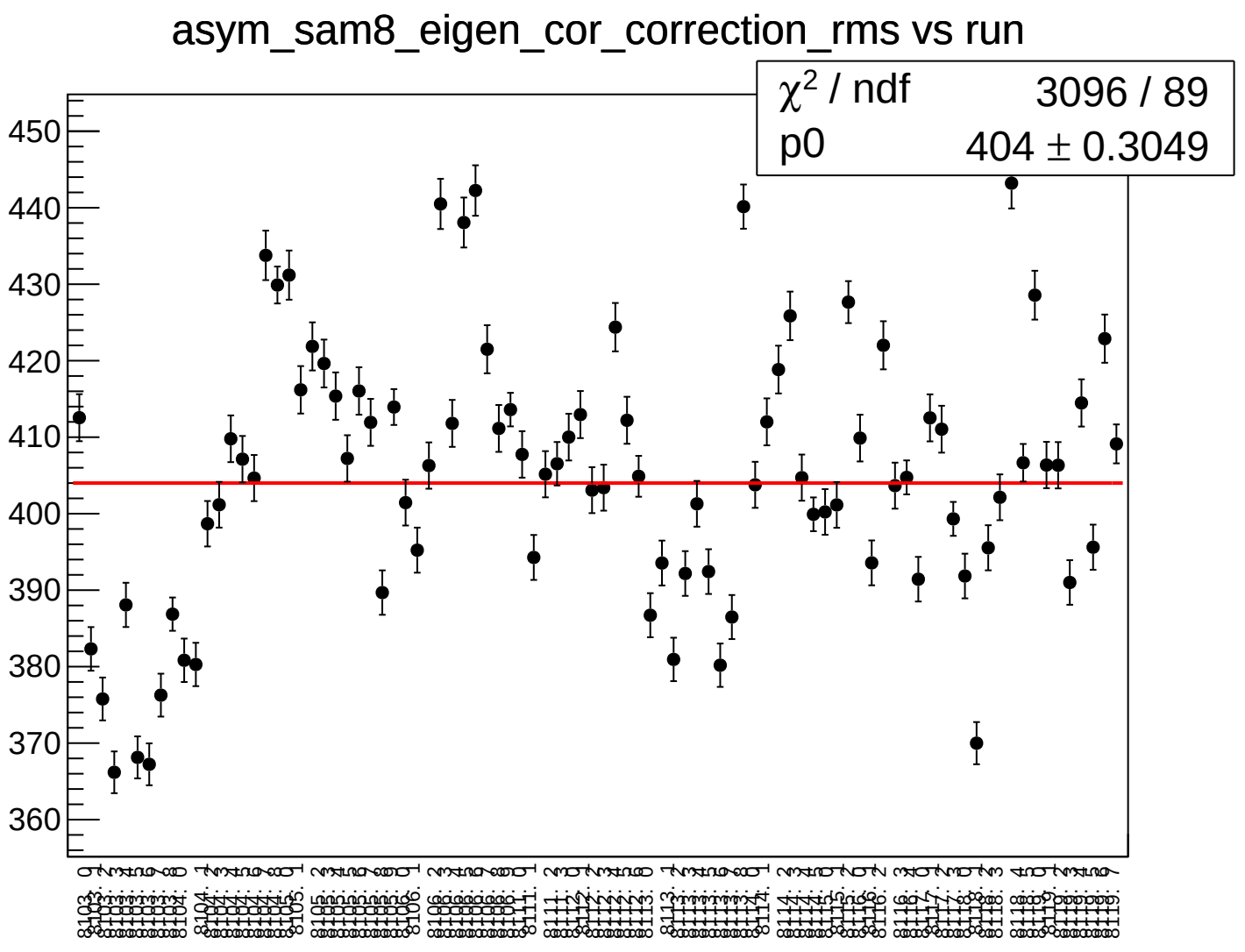
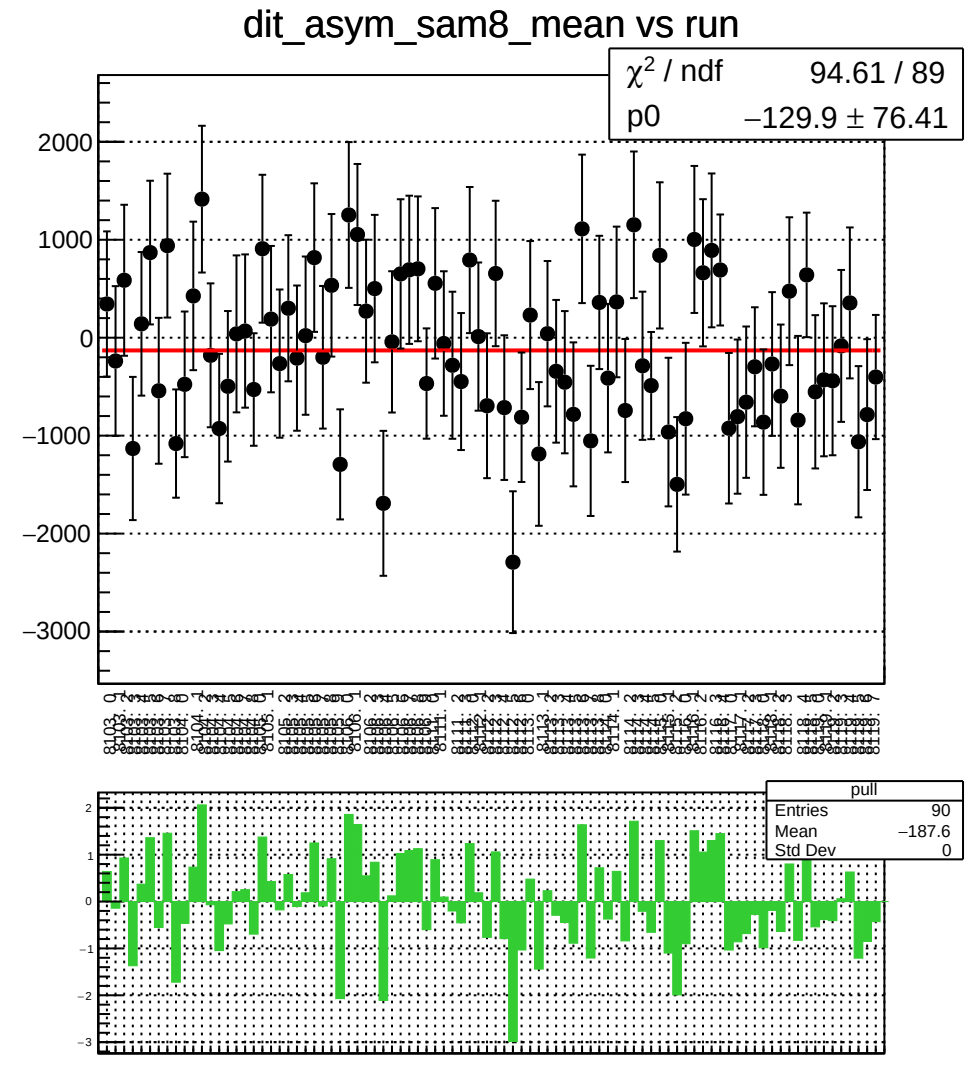
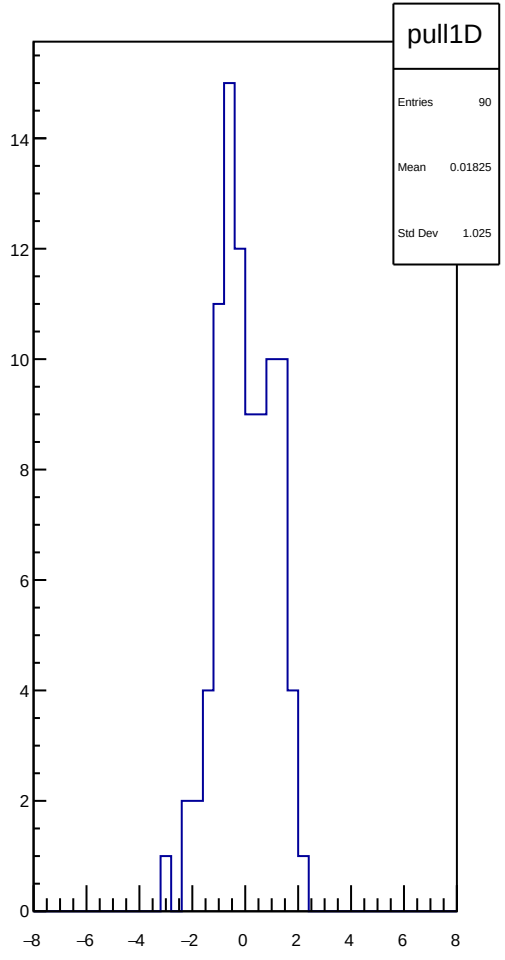
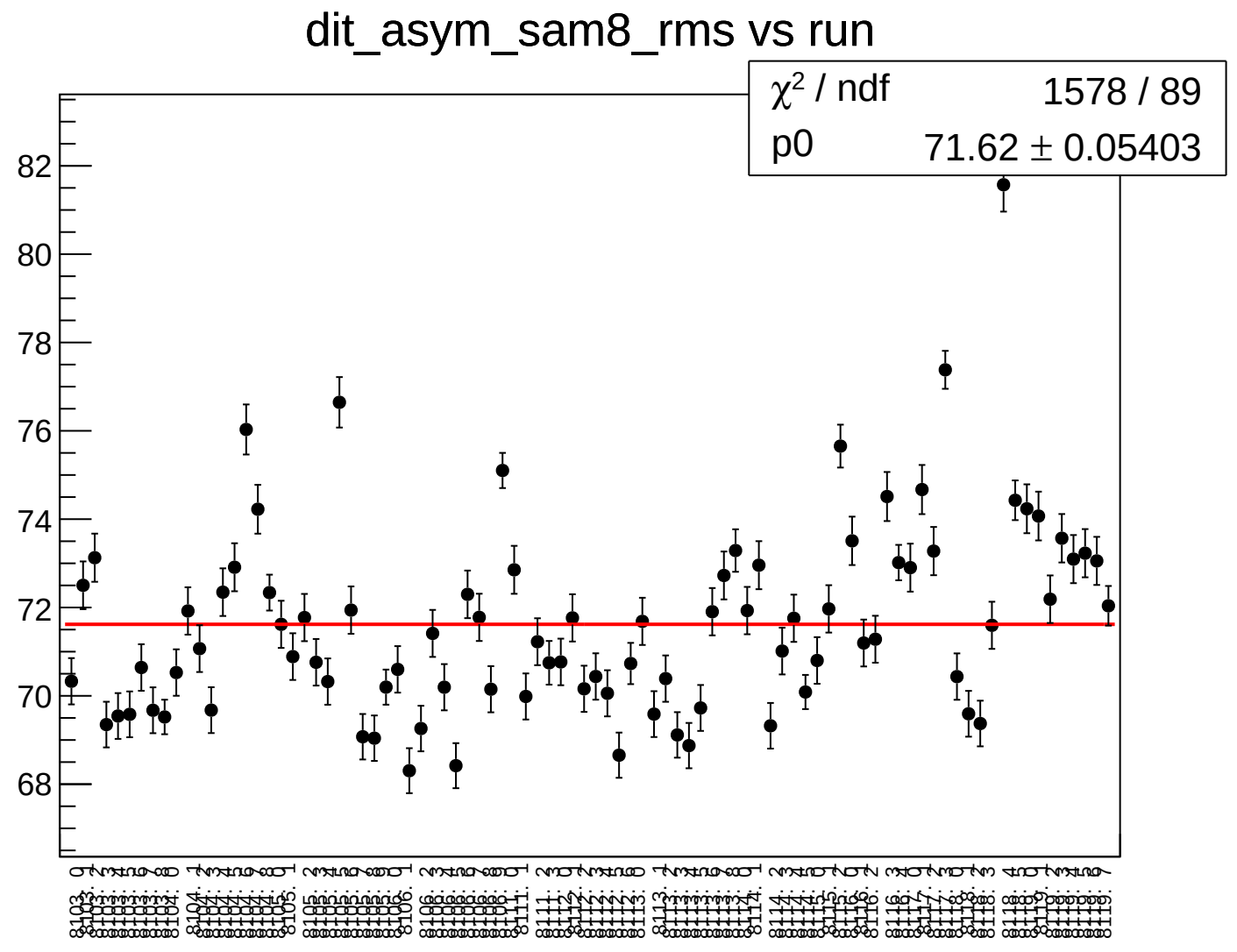
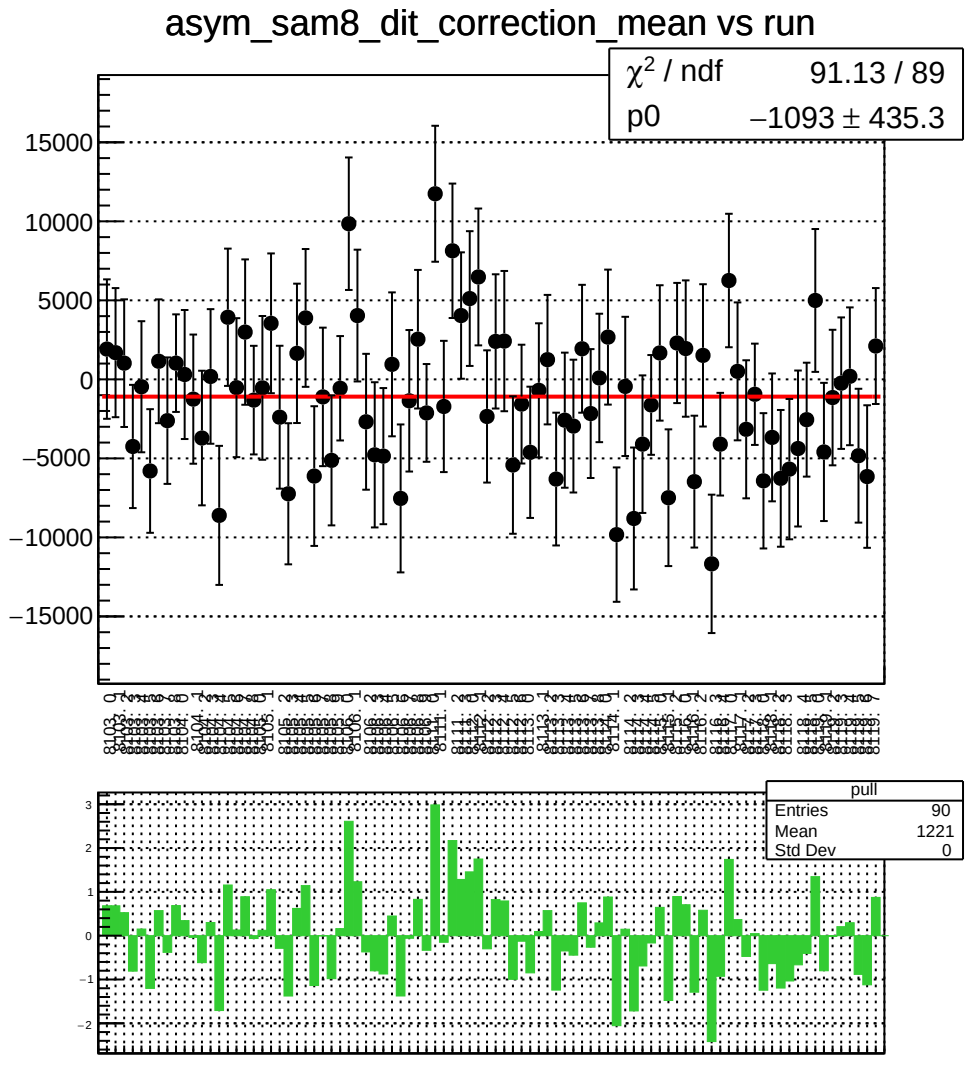
2
4
6
8

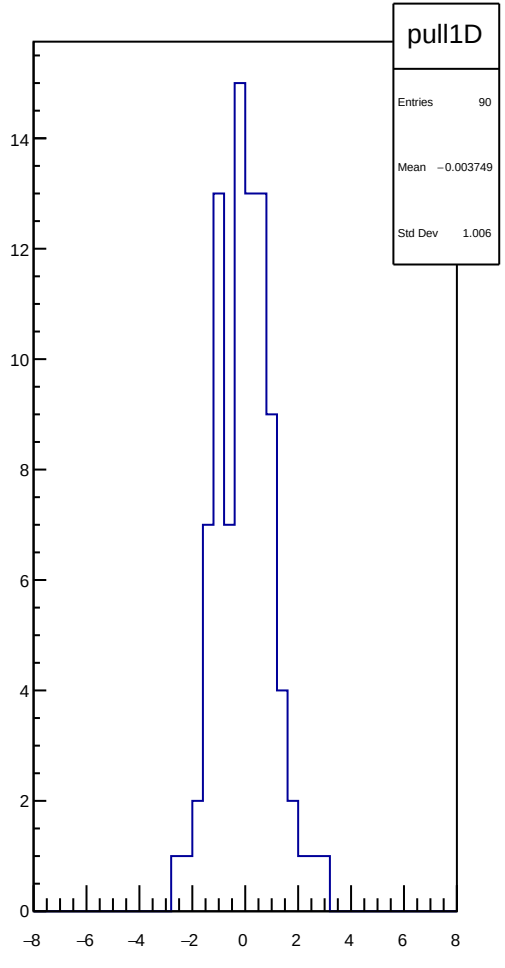

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3096 / 89
p0 404 ± 0.3049
450
440
430
420
410
400
390
380
370
360

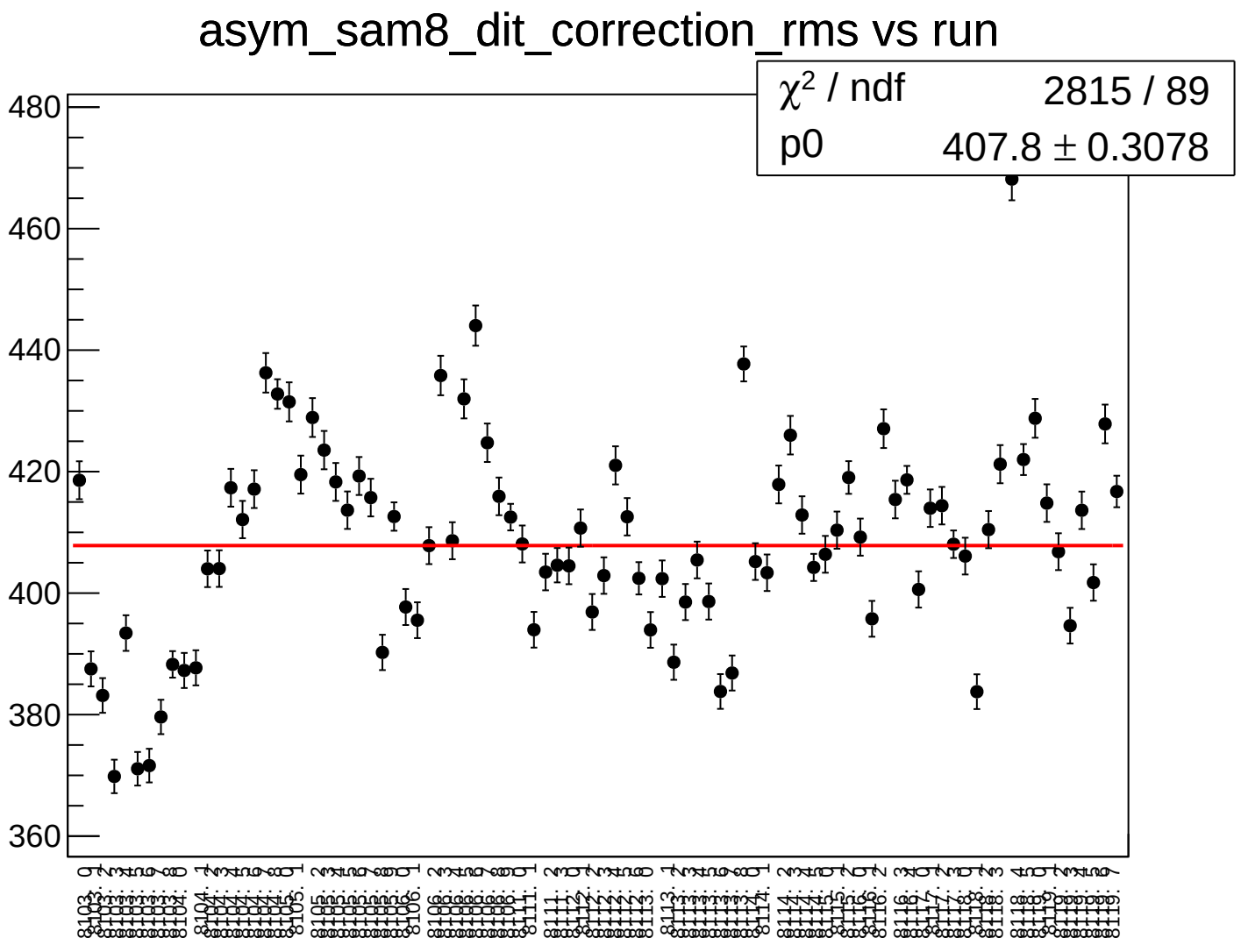

dit_asym_sam8_mean vs run
χ² / ndf 94.61 / 89
p0 −129.9 ± 76.41
pull
Entries 90
Mean −187.6
Std Dev 0

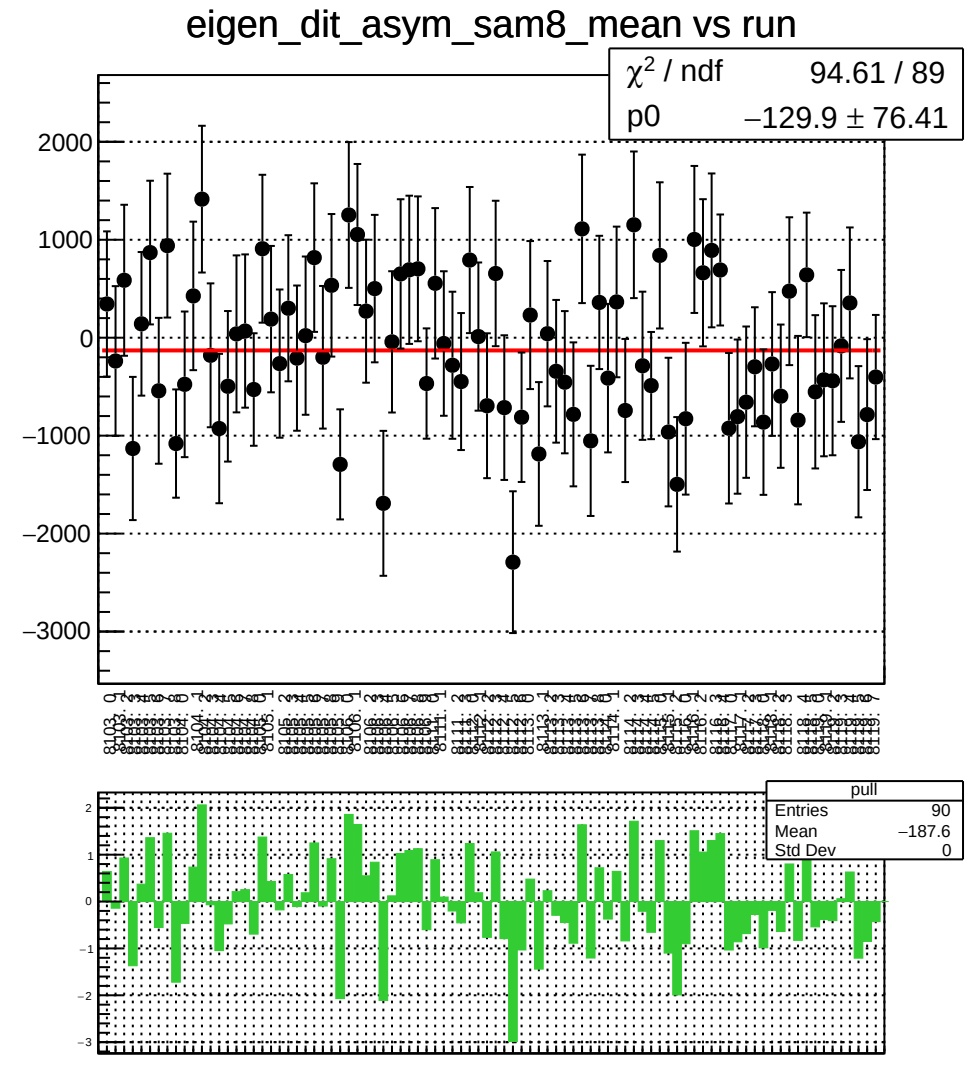

pull1D
Entries 90
Mean 0.01825
Std Dev 1.025

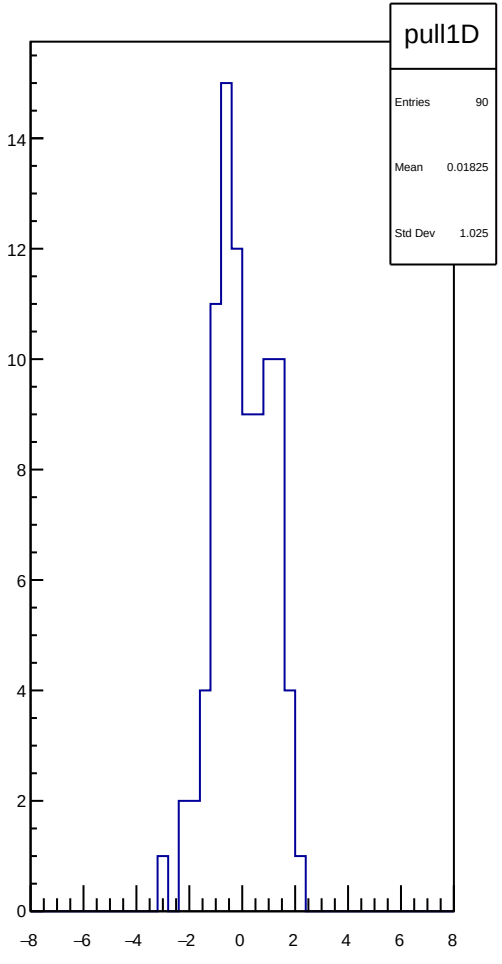

dit_asym_sam8_rms vs run
χ² / ndf 1578 / 89
p0 71.62 ± 0.05403
82
80
78
76
74
72
70
68

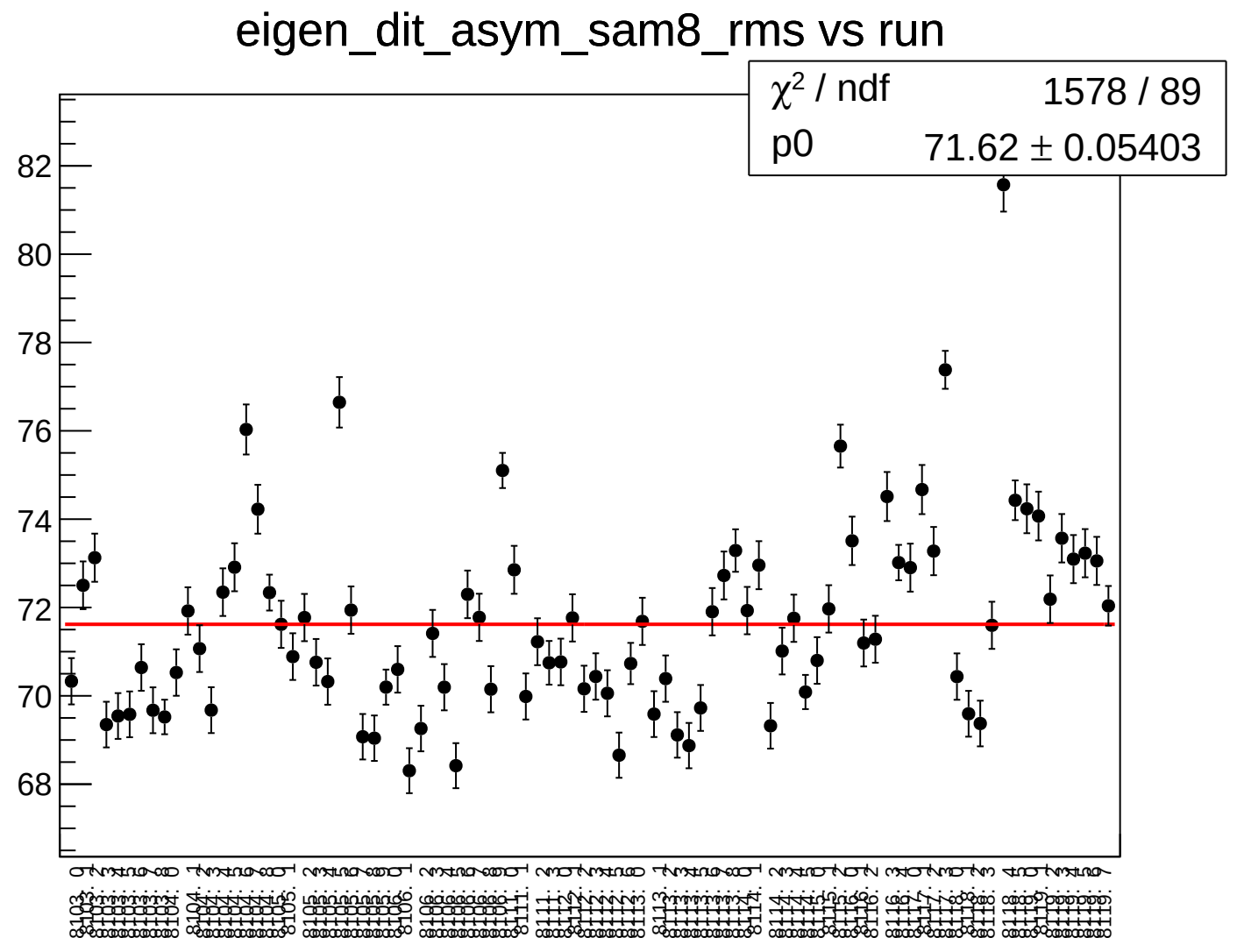

asym_sam8_dit_correction_mean vs run
χ² / ndf 91.13 / 89
p0 −1093 ± 435.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 1221
Std Dev 0
3
2
1
0
−1
−2

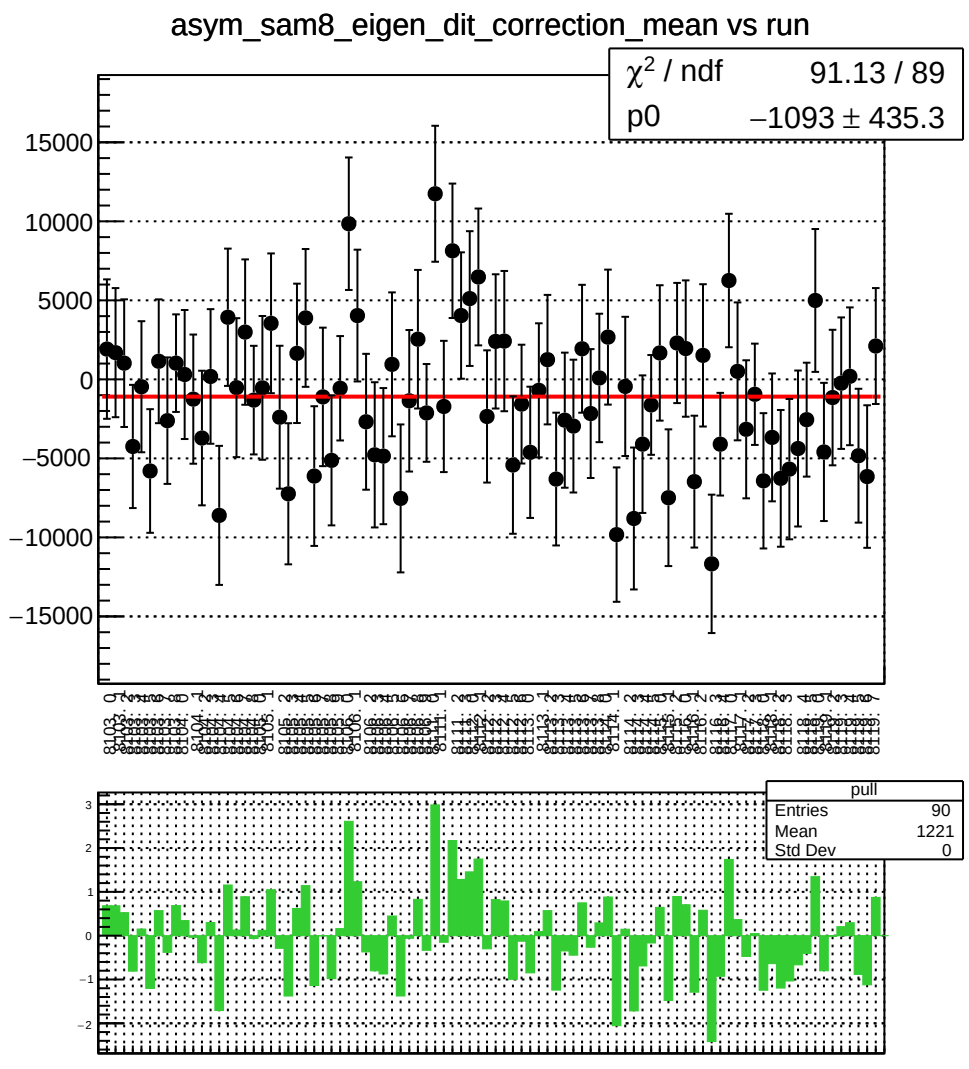

pull1D
Entries 90
Mean −0.003749
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

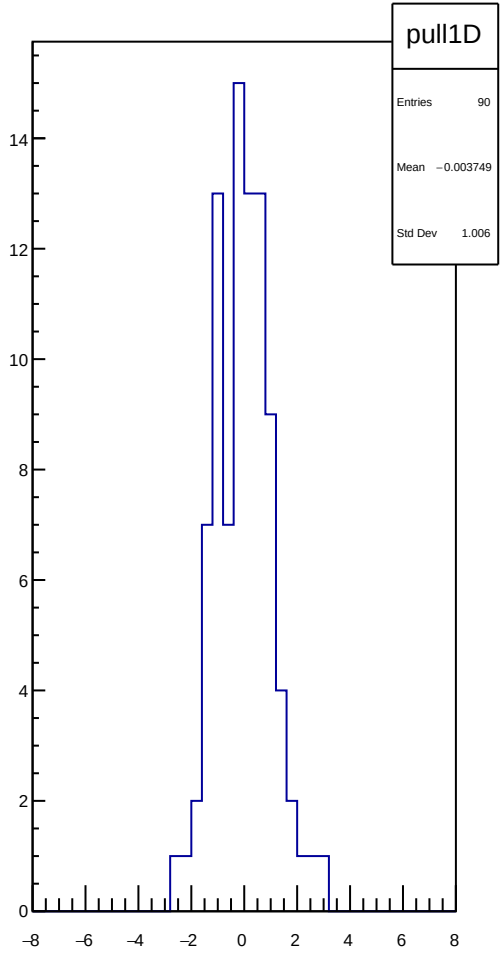

asym_sam8_dit_correction_rms vs run
χ² / ndf 2815 / 89
p0 407.8 ± 0.3078
480
460
440
420
400
380
360

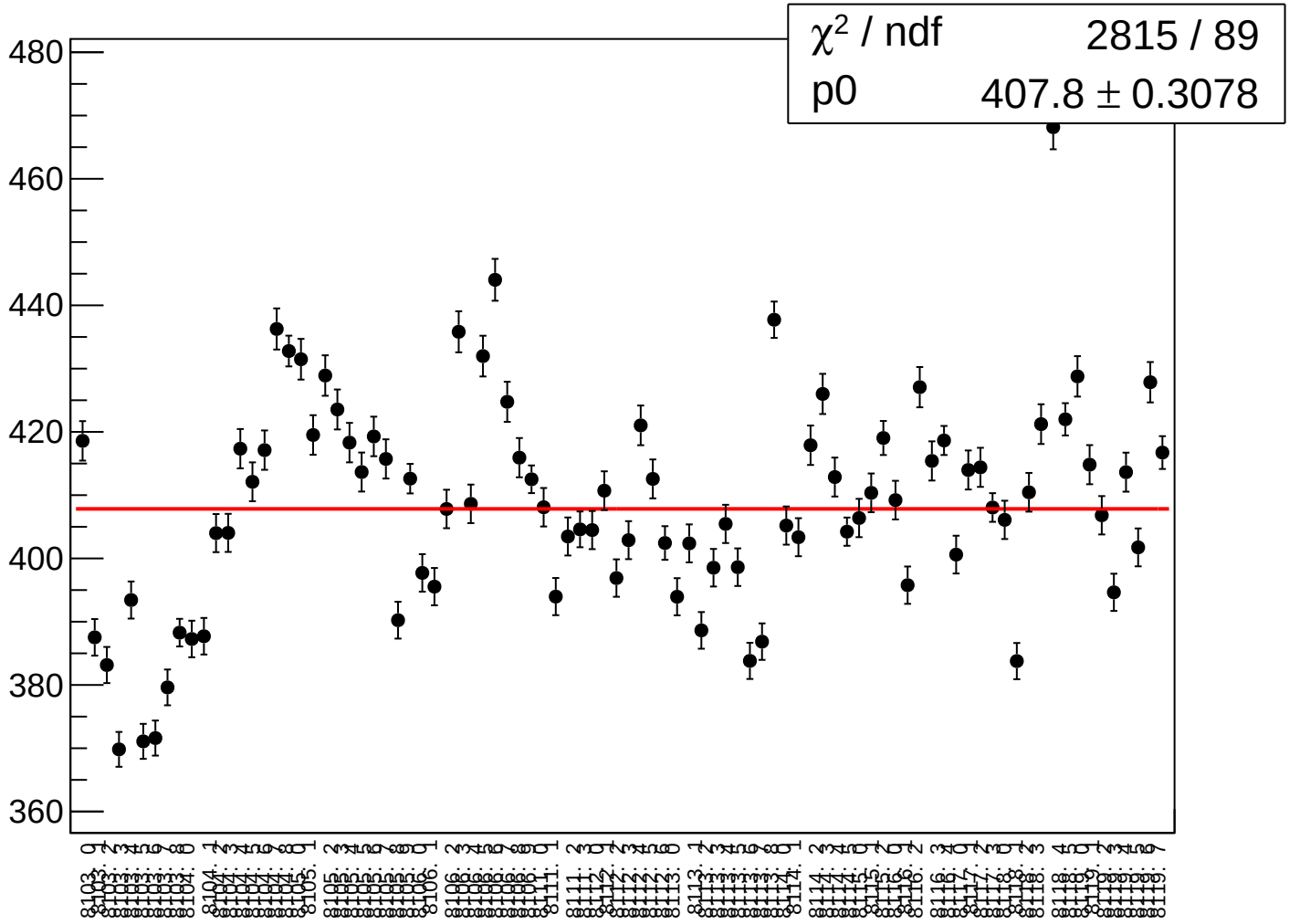

eigen_dit_asym_sam8_mean vs run
χ² / ndf 94.61 / 89
p0 −129.9 ± 76.41
pull
Entries 90
Mean −187.6
Std Dev 0

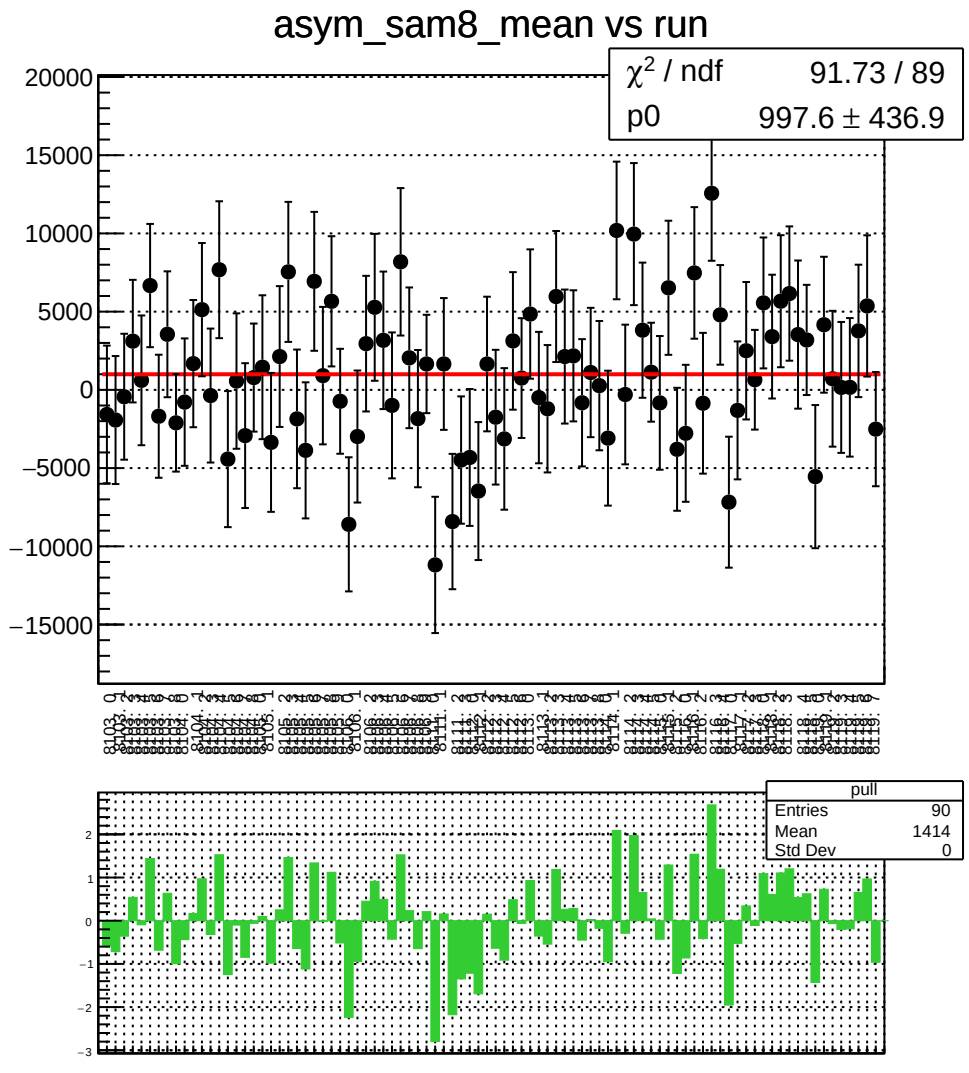

pull1D
Entries 90
Mean 0.01825
Std Dev 1.025

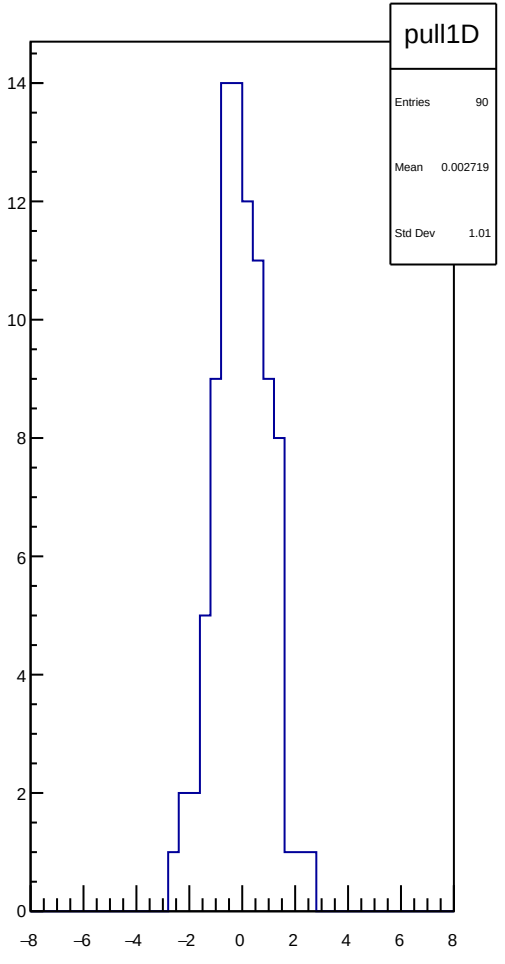

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1578 / 89
p0 71.62 ± 0.05403
82
80
78
76
74
72
70
68

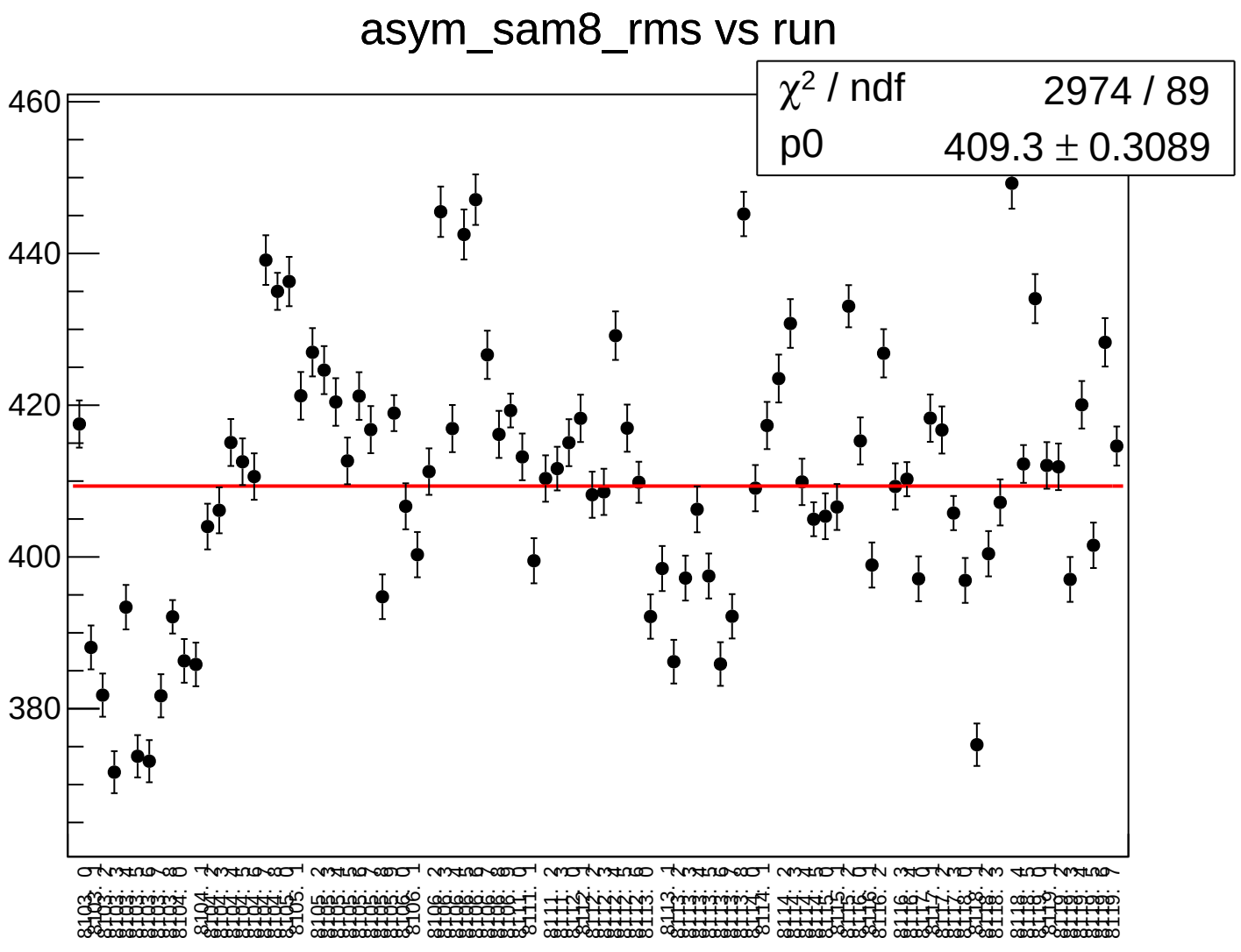

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 91.13 / 89
p0 −1093 ± 435.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean 1221
Std Dev 0
3
2
1
0
−1
−2

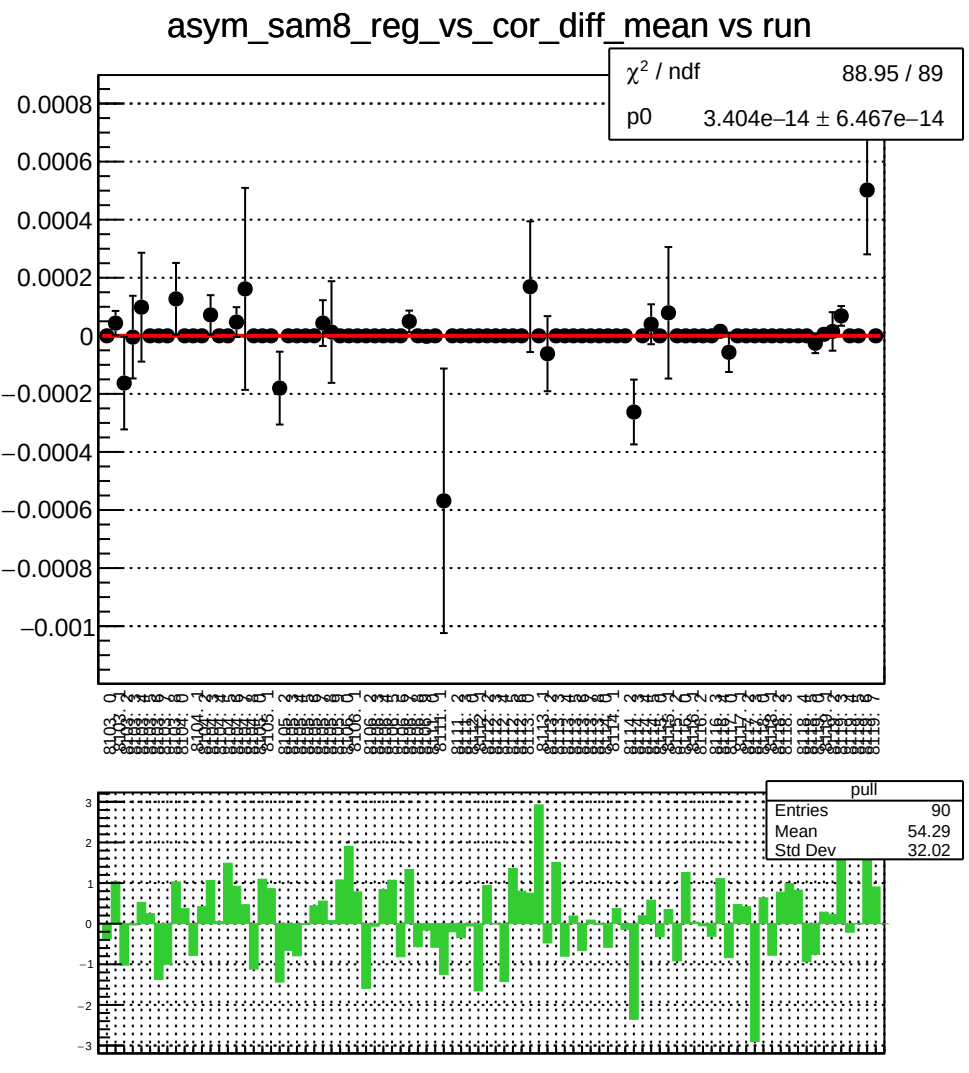

pull1D
Entries 90
Mean −0.003749
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

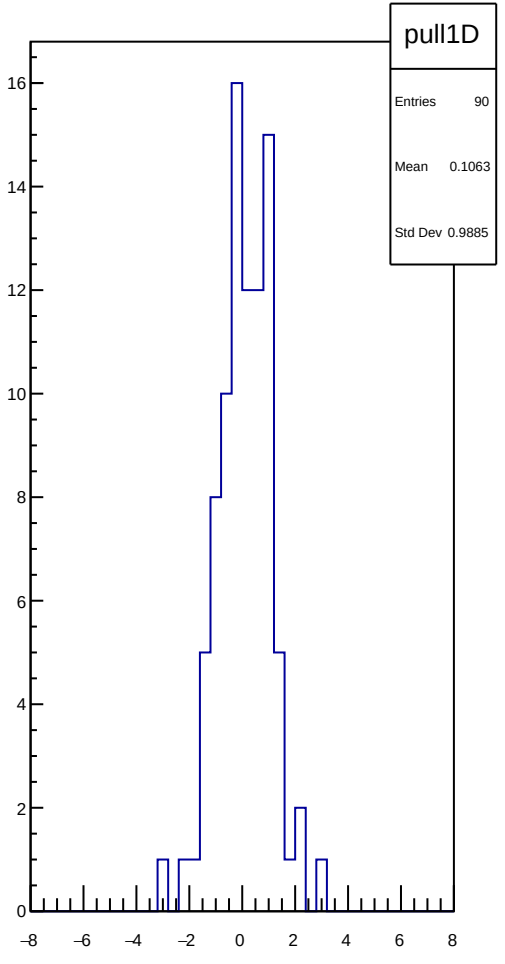

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 2815 / 89
p0 407.8 ± 0.3078
480
460
440
420
400
380
360

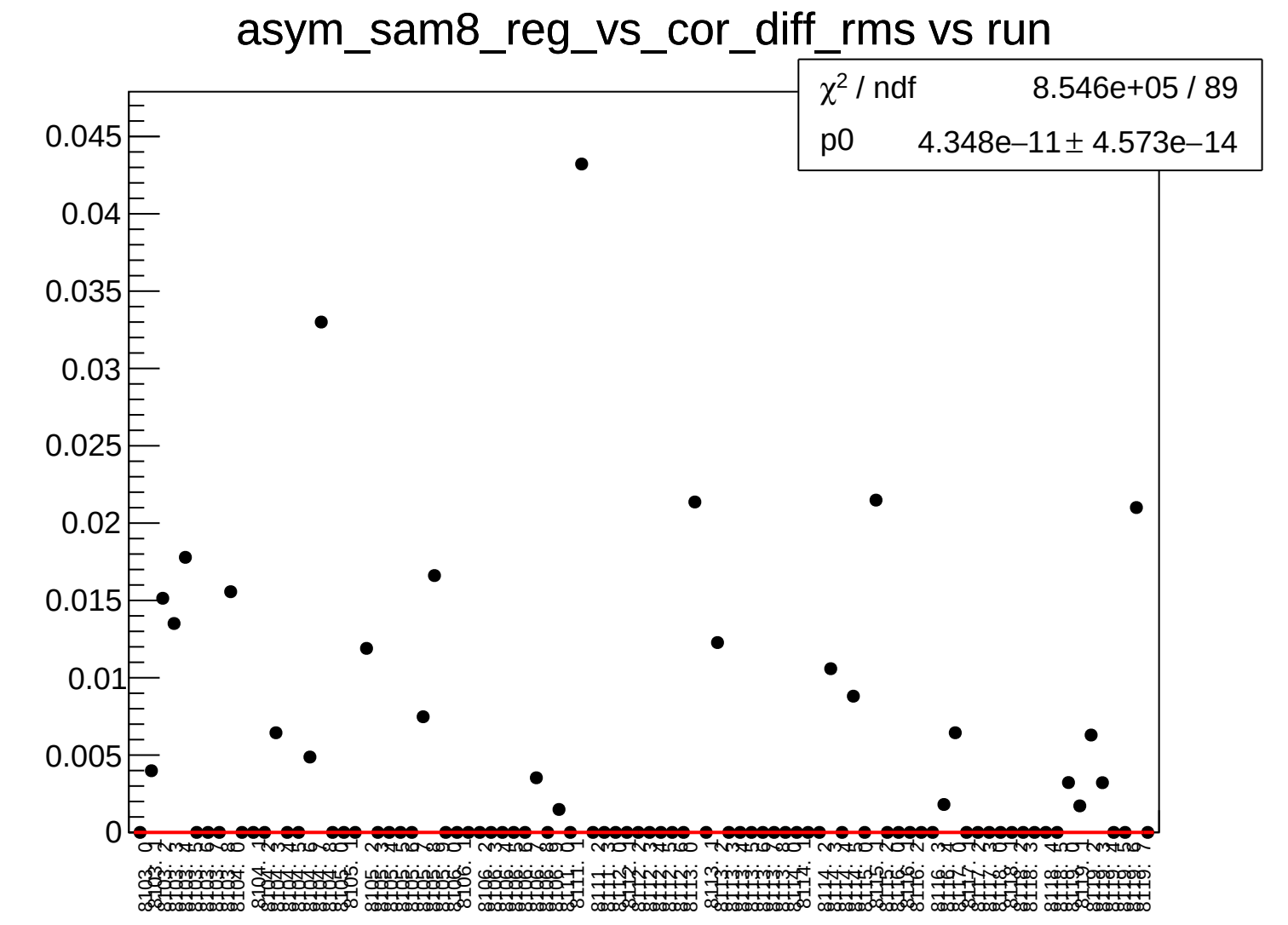

asym_sam8_mean vs run
χ² / ndf 91.73 / 89
p0 997.6 ± 436.9
pull
Entries 90
Mean 1414
Std Dev 0

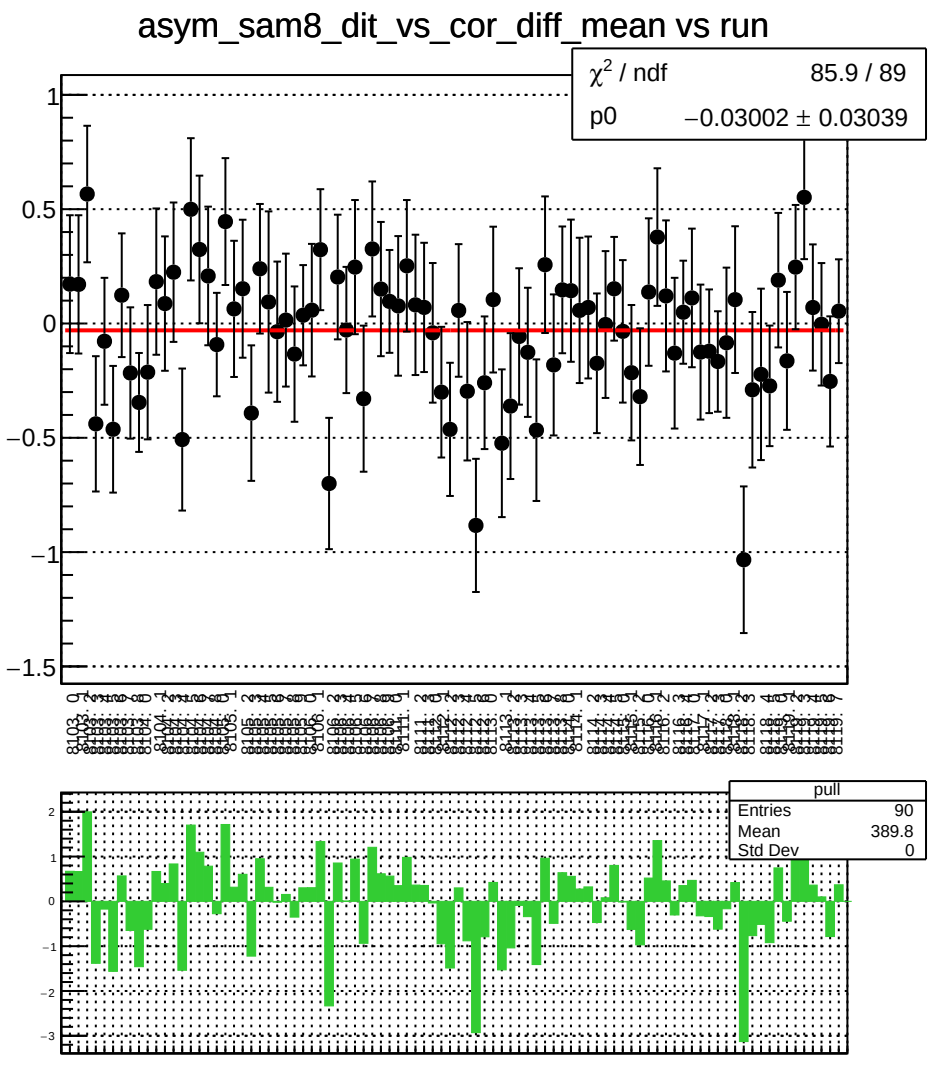

pull1D
Entries 90
Mean 0.002719
Std Dev 1.01

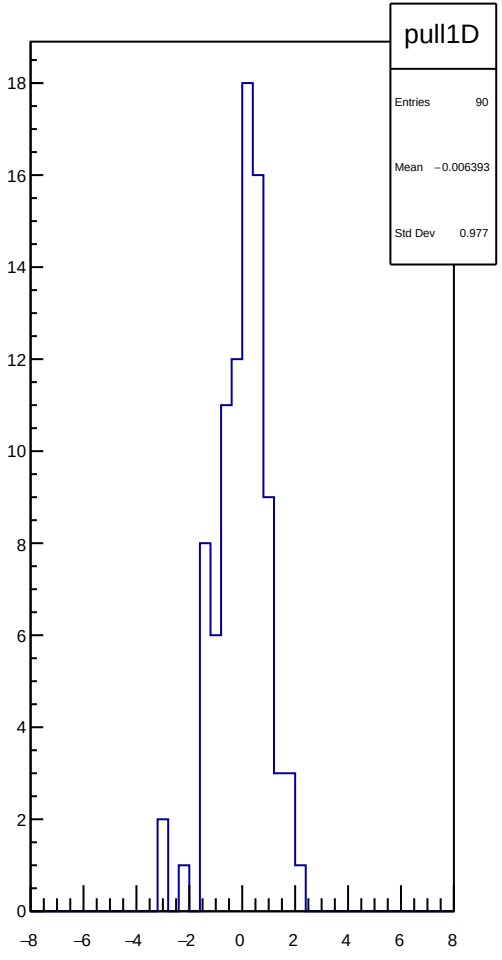

asym_sam8_rms vs run
χ² / ndf 2974 / 89
p0 409.3 ± 0.3089
460
440
420
400
380

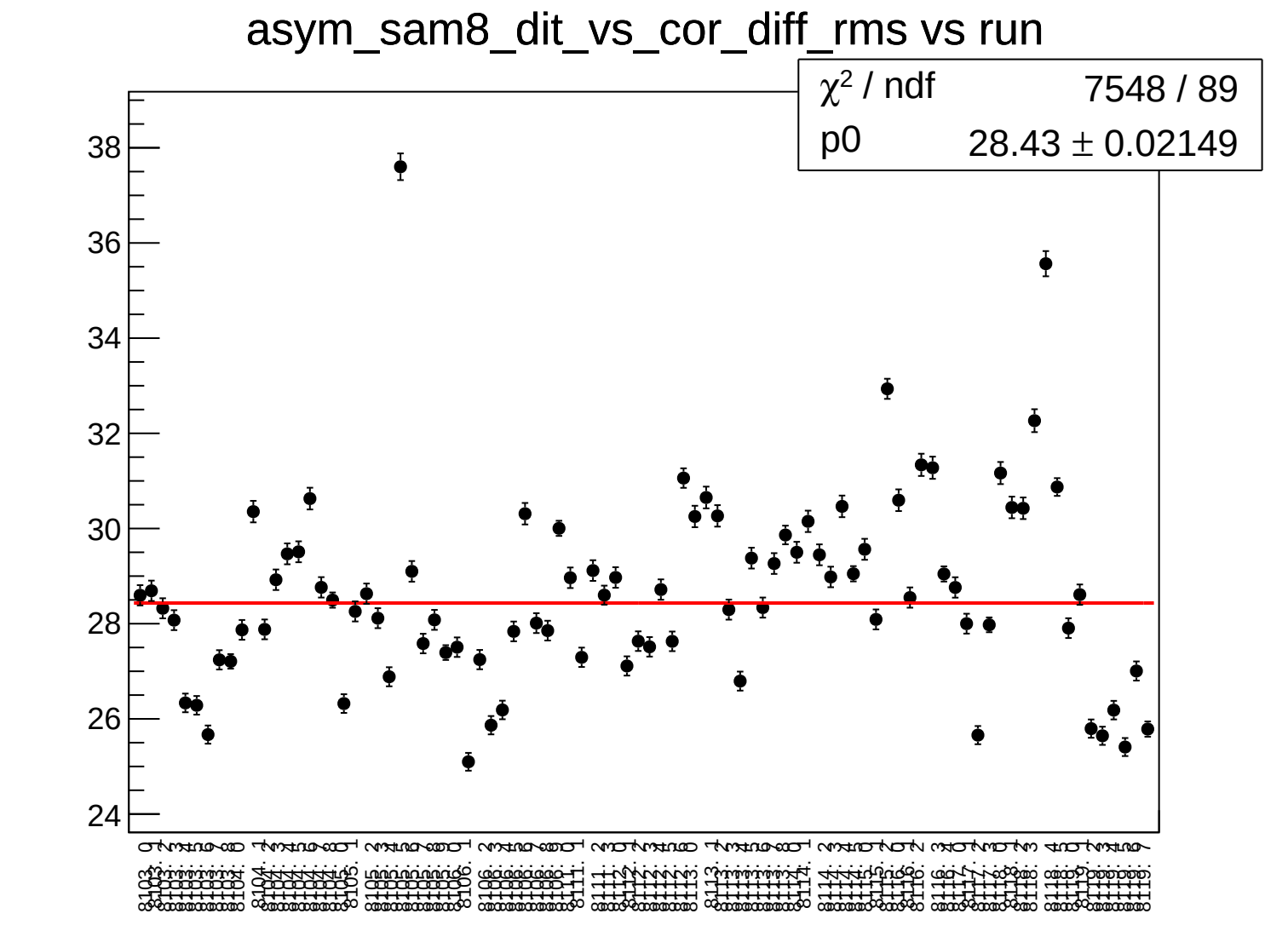

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 88.95 / 89
p0 3.404e−14 ± 6.467e−14
pull
Entries 90
Mean 54.29
Std Dev 32.02

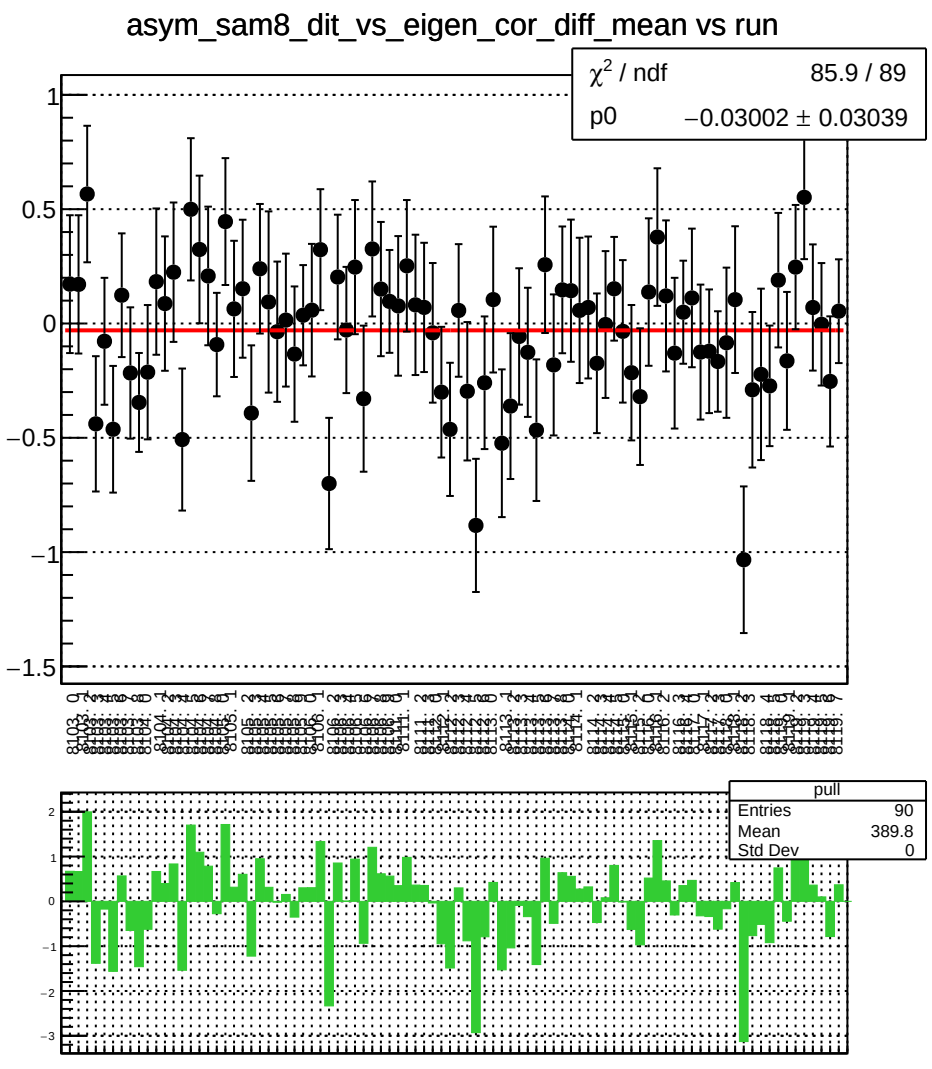

pull1D
Entries 90
Mean 0.1063
Std Dev 0.9885

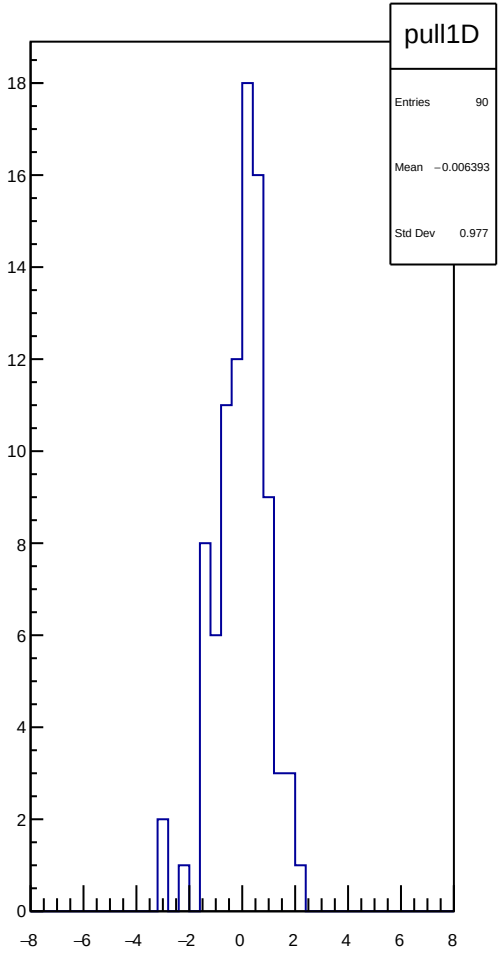

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 8.546e+05 / 89
p0 4.348e−11 ± 4.573e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

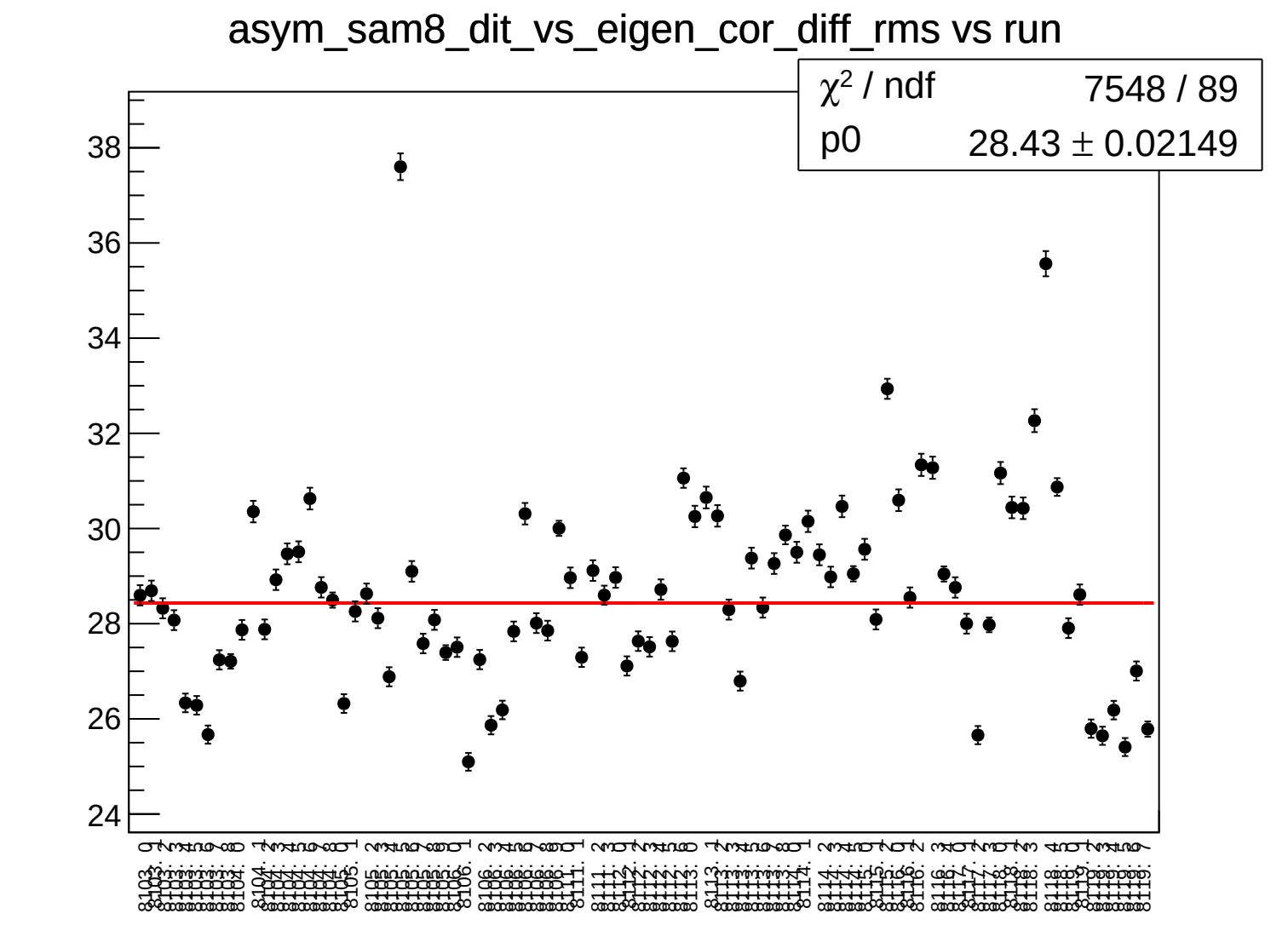

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 85.9 / 89
p0 −0.03002 ± 0.03039
pull
Entries 90
Mean 389.8
Std Dev 0

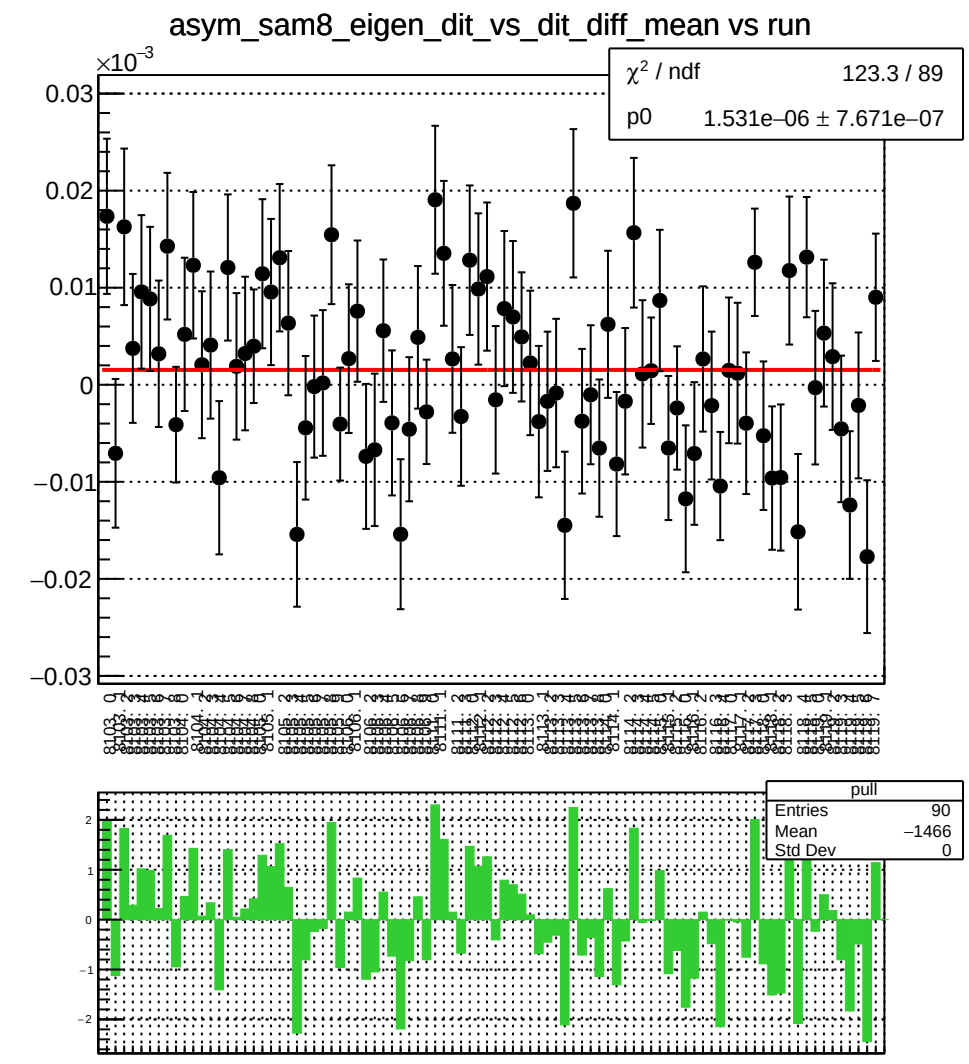

pull1D
Entries 90
Mean −0.006393
Std Dev 0.977

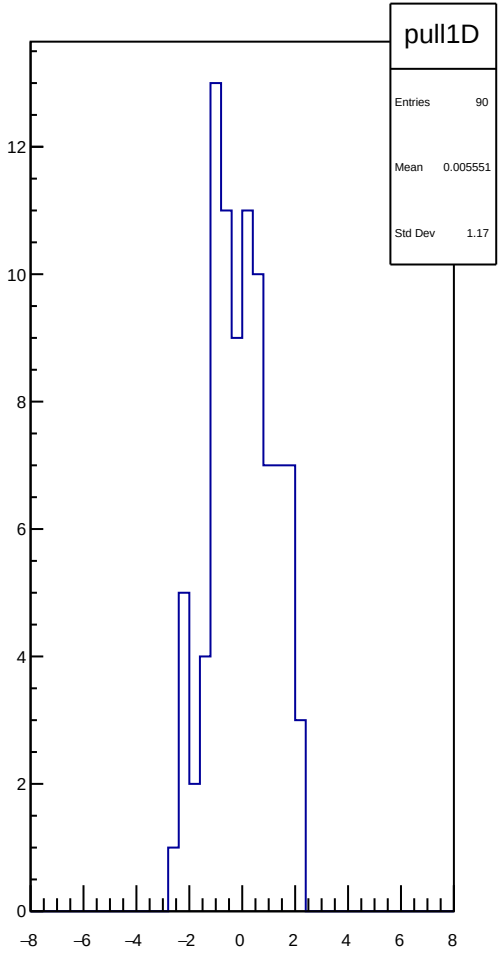

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 7548 / 89
p0 28.43 ± 0.02149
38
36
34
32
30
28
26
24

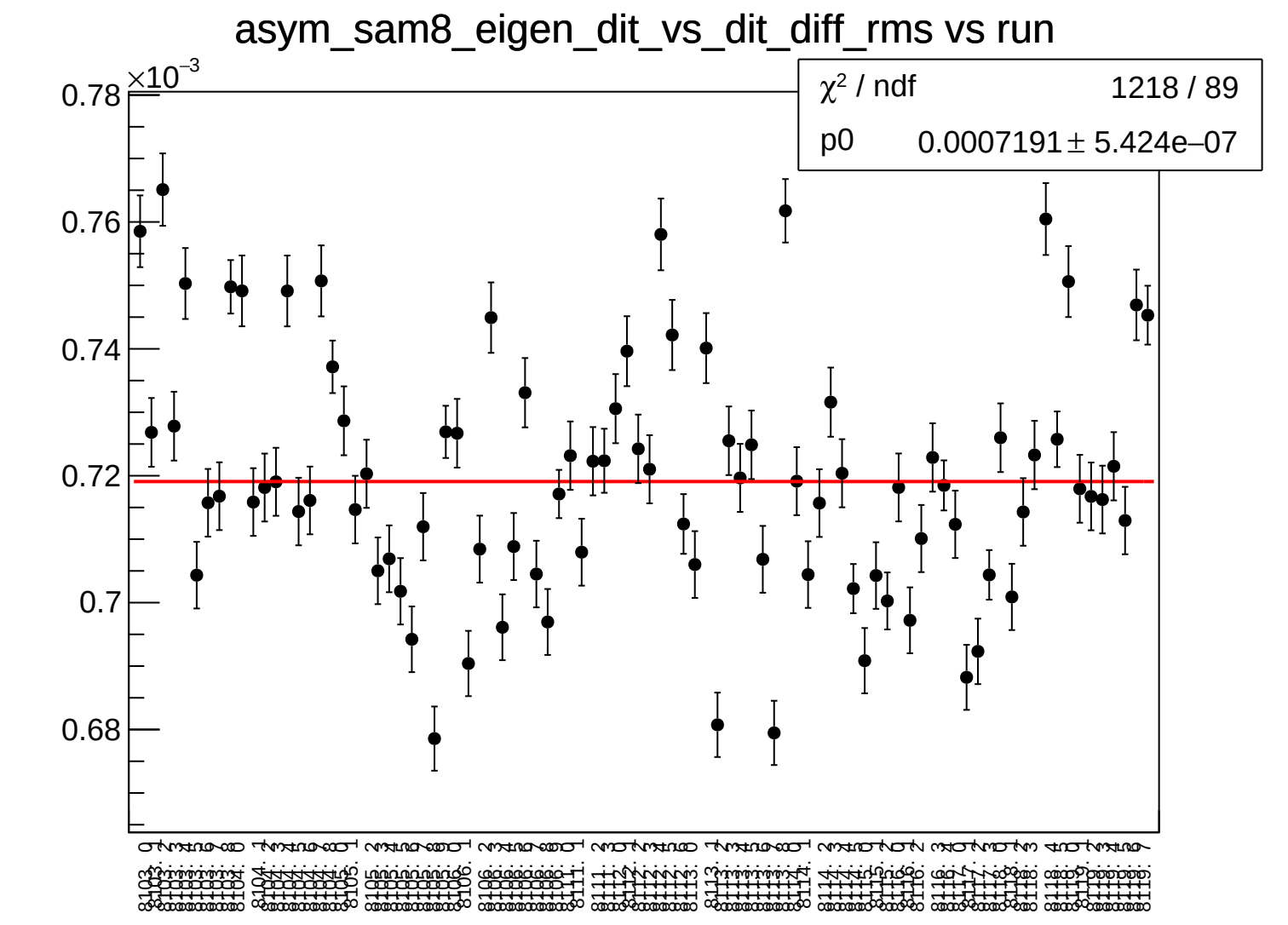

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.9 / 89
p0 −0.03002 ± 0.03039
pull
Entries 90
Mean 389.8
Std Dev 0

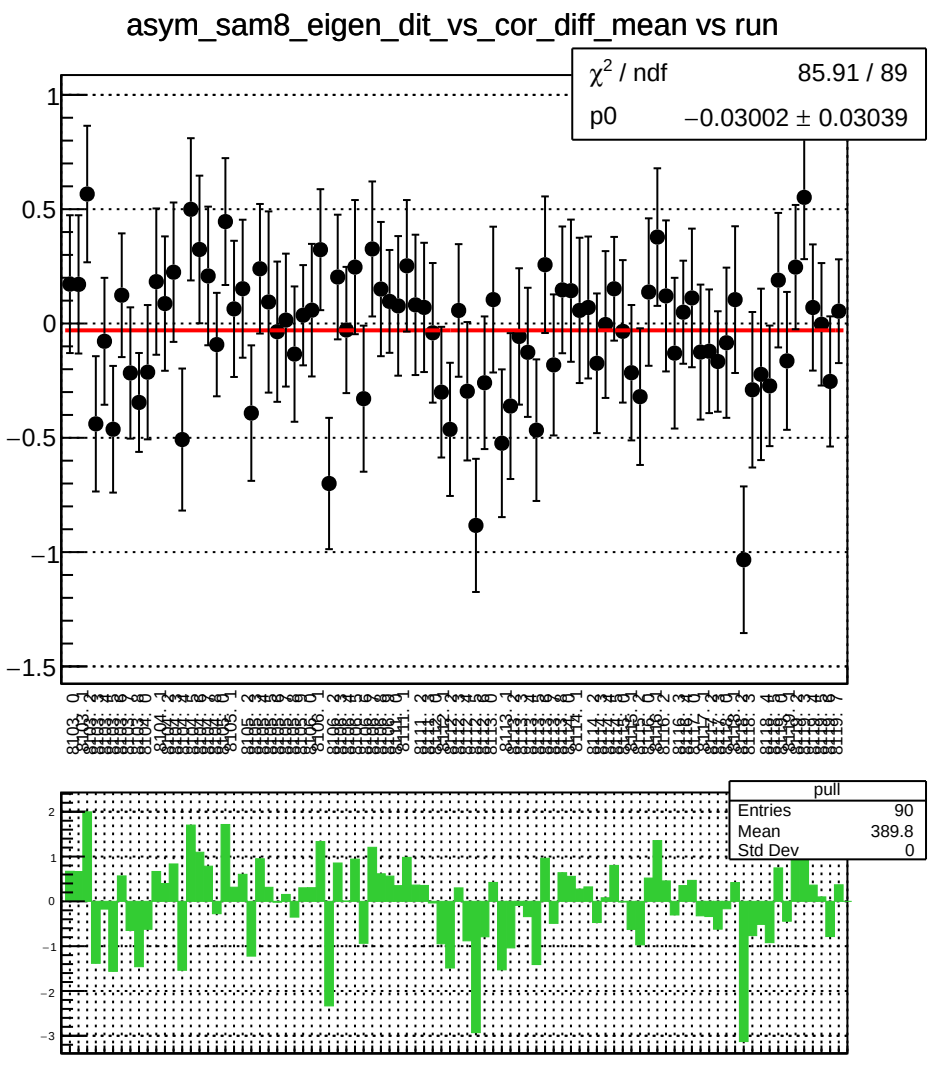

pull1D
Entries 90
Mean −0.006393
Std Dev 0.977

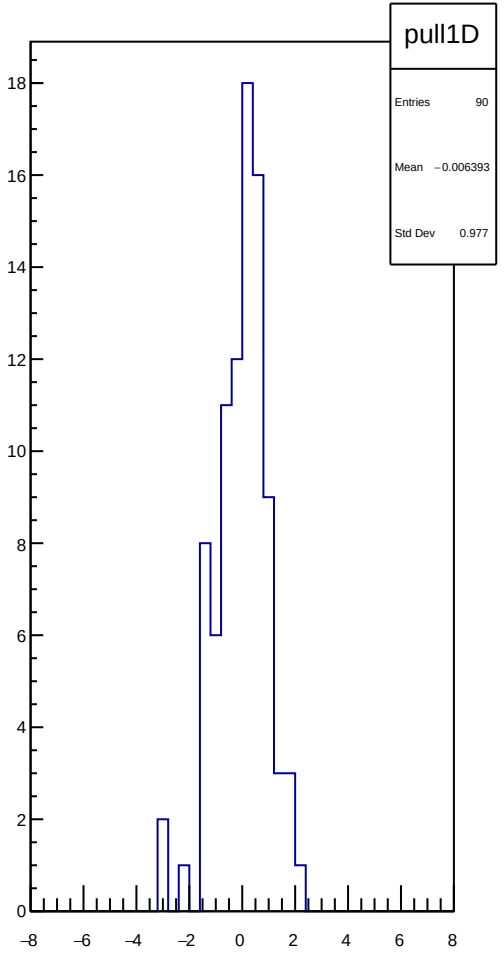

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7548 / 89
p0 28.43 ± 0.02149
38
36
34
32
30
28
26
24

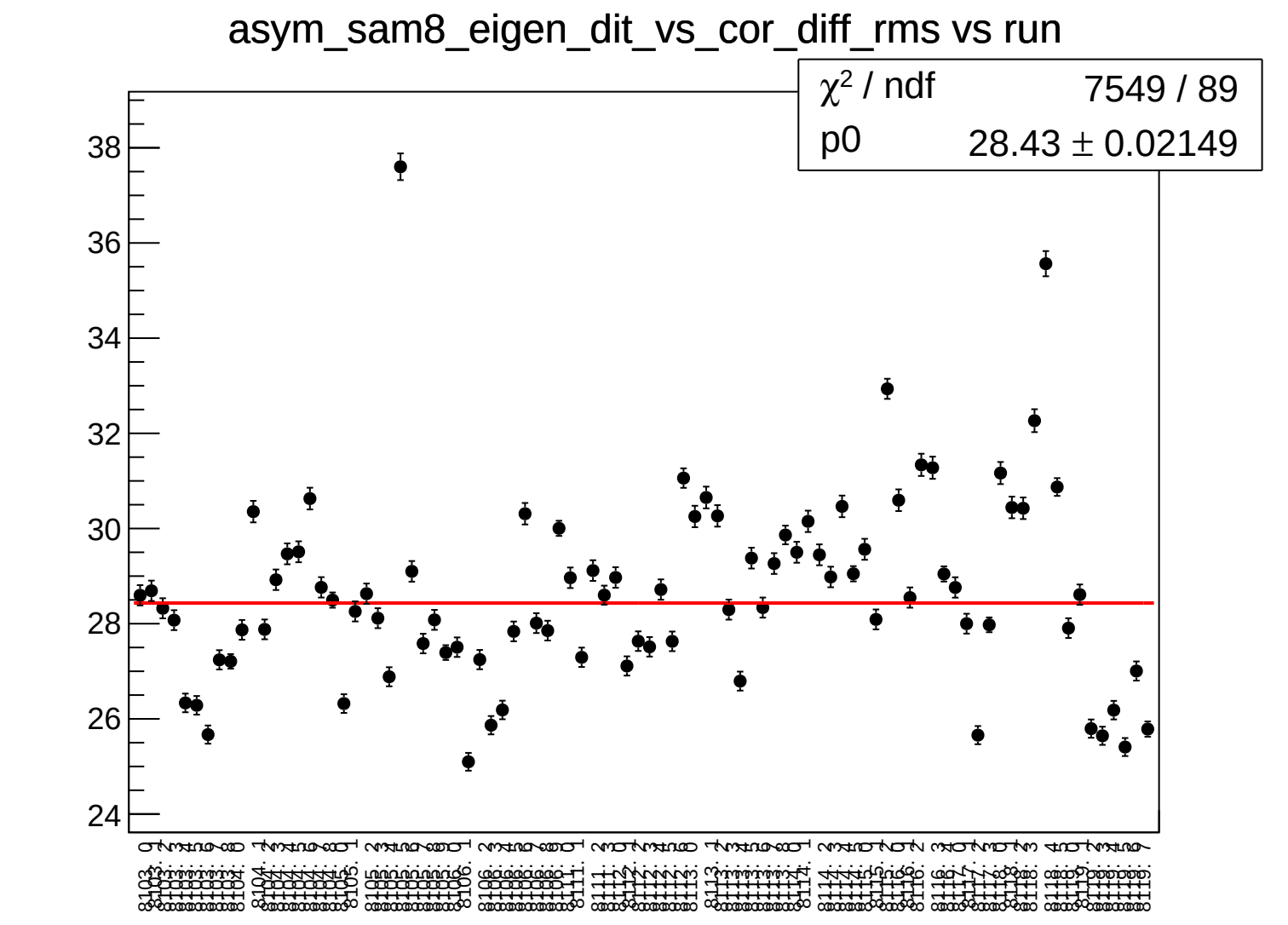

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 123.3 / 89
p0 1.531e−06 ± 7.671e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 90
Mean −1466
Std Dev 0
2
1
0
−1
−2

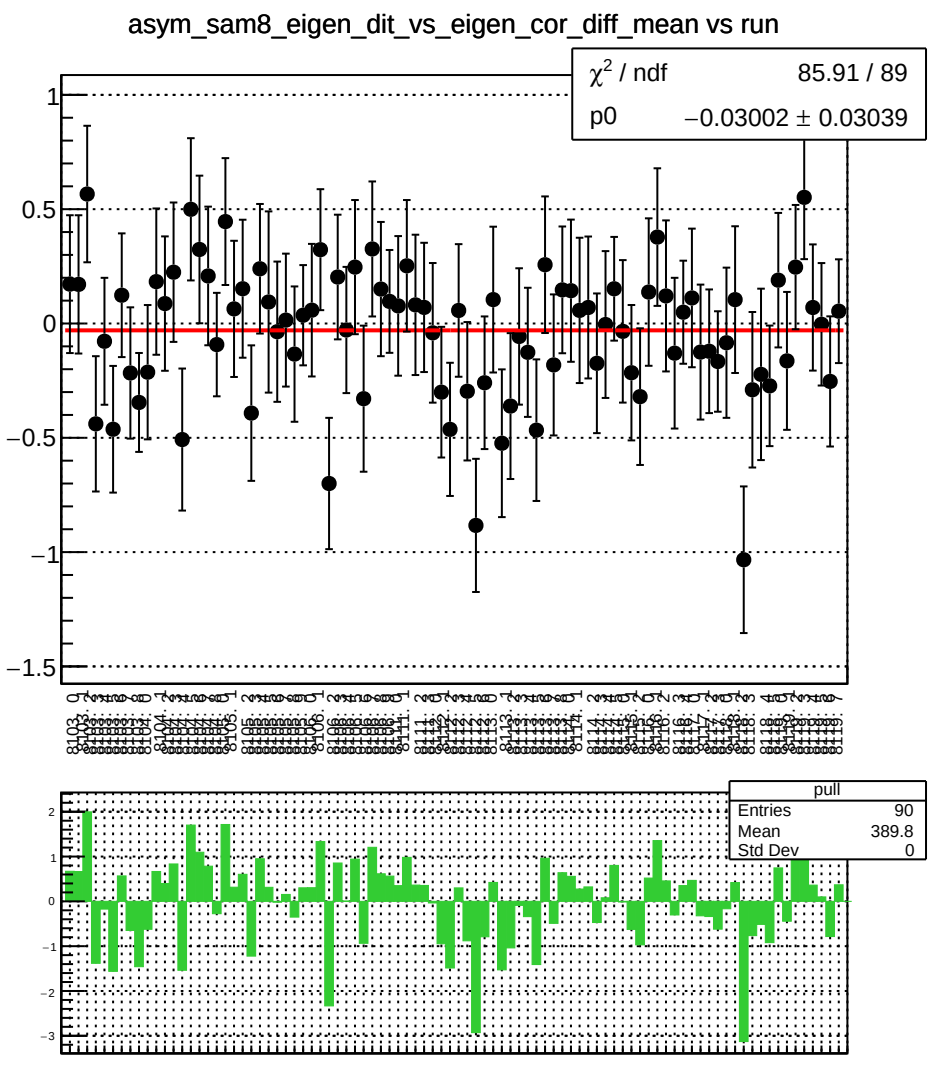

pull1D
Entries 90
Mean 0.005551
Std Dev 1.17
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

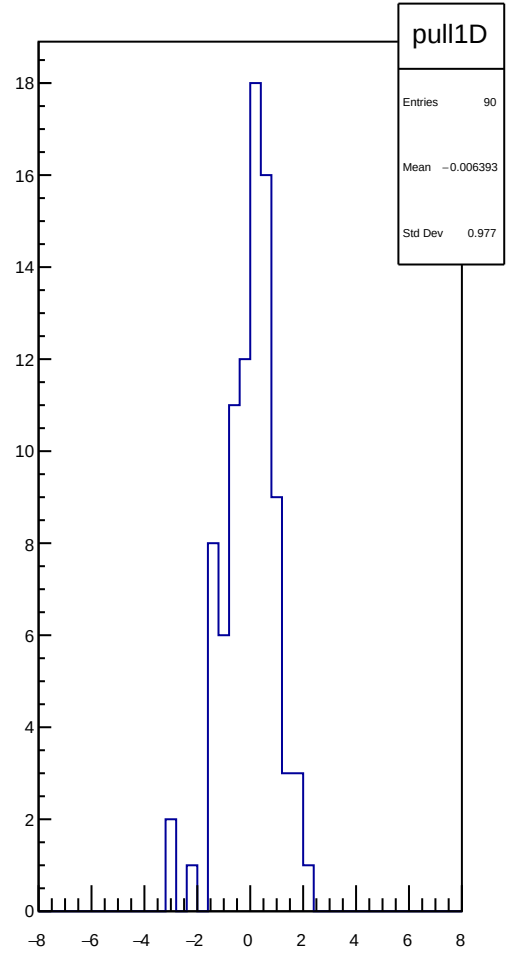

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
0.78
0.76
0.74
0.72
0.7
0.68
χ² / ndf 1218 / 89
p0 0.0007191 ± 5.424e–07

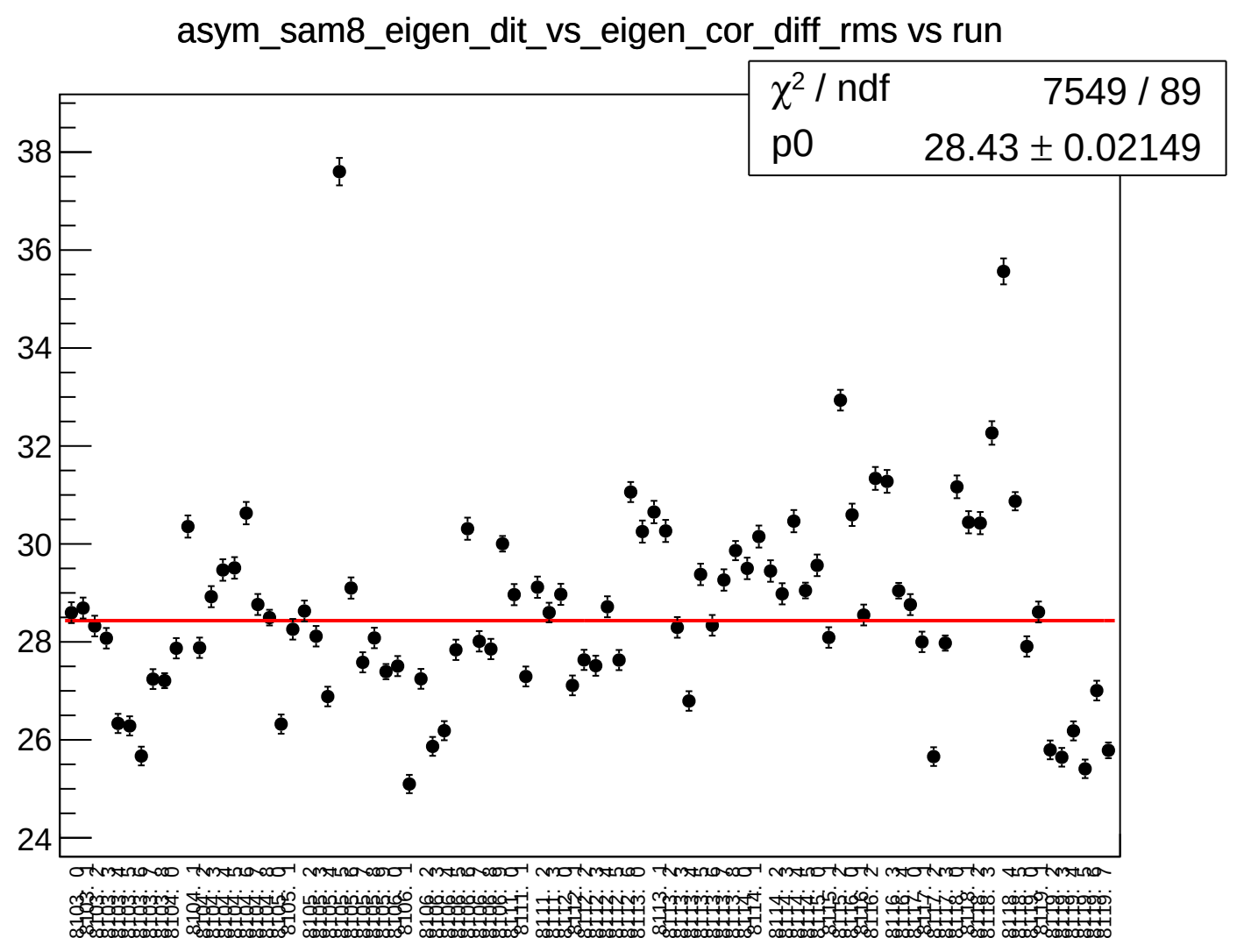

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.91 / 89
p0 −0.03002 ± 0.03039
pull
Entries 90
Mean 389.8
Std Dev 0

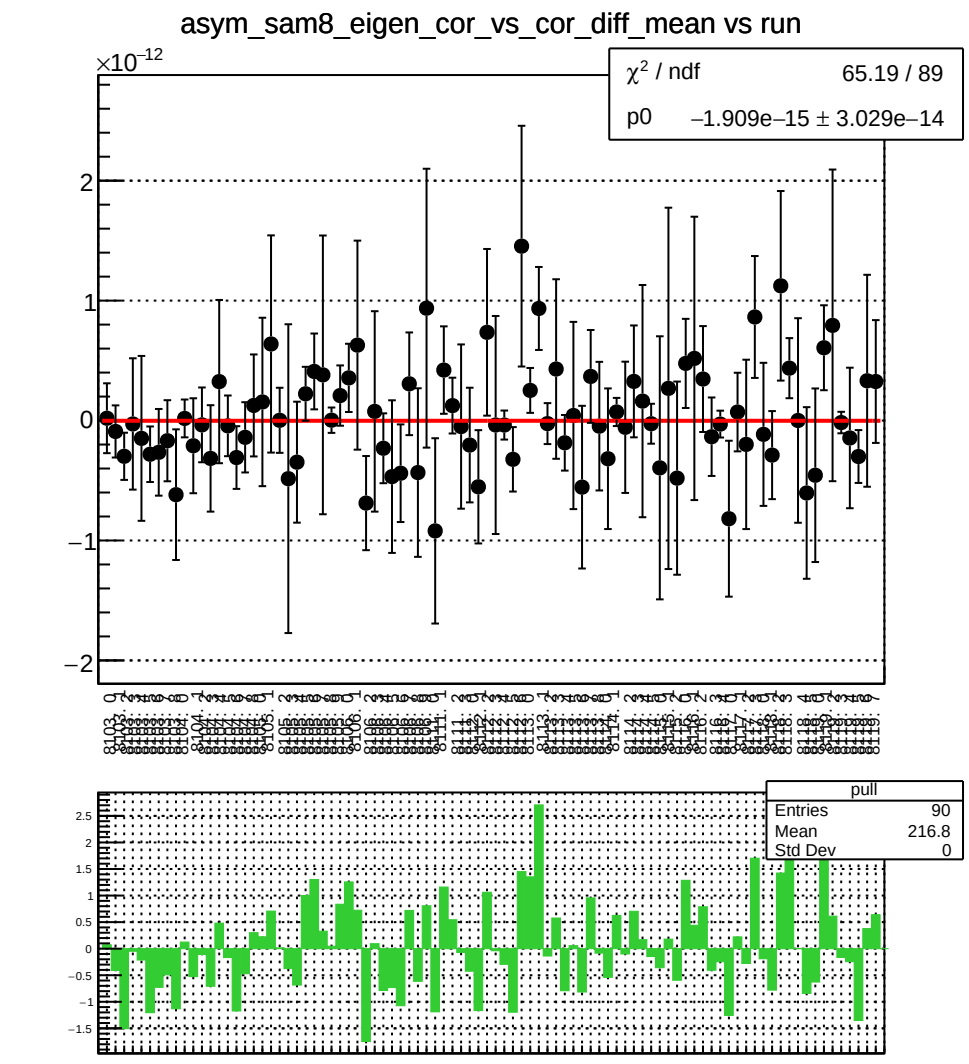

pull1D
Entries 90
Mean −0.006393
Std Dev 0.977

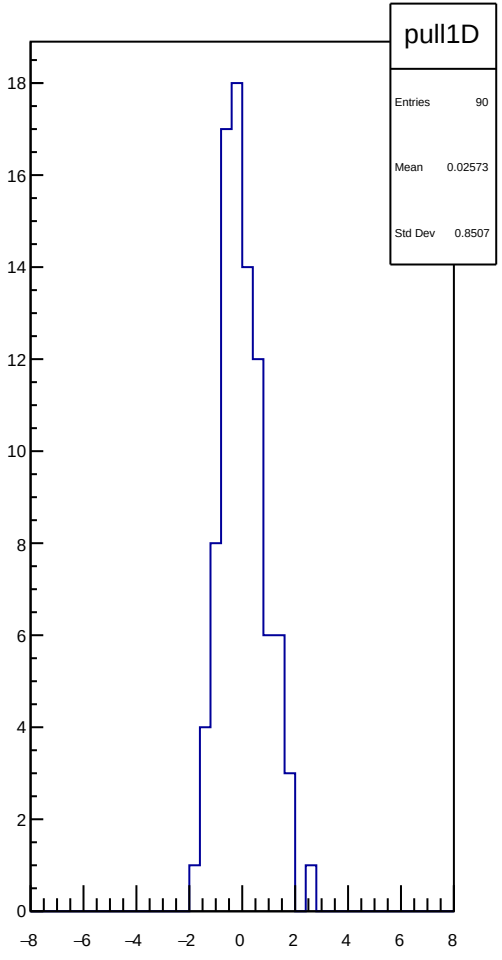

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7549 / 89
p0 28.43 ± 0.02149
38
36
34
32
30
28
26
24

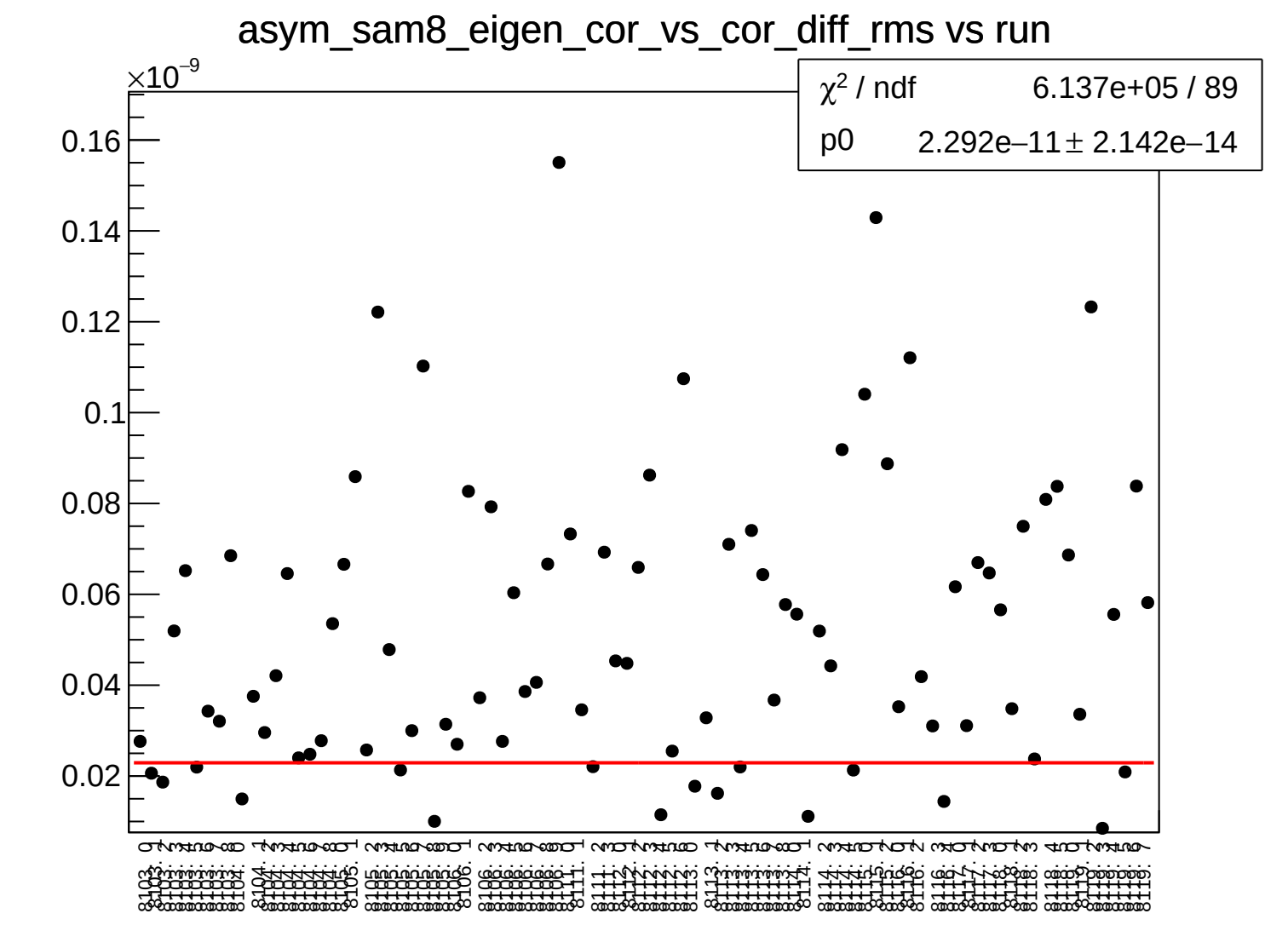

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.91 / 89
p0 −0.03002 ± 0.03039
pull
Entries 90
Mean 389.8
Std Dev 0

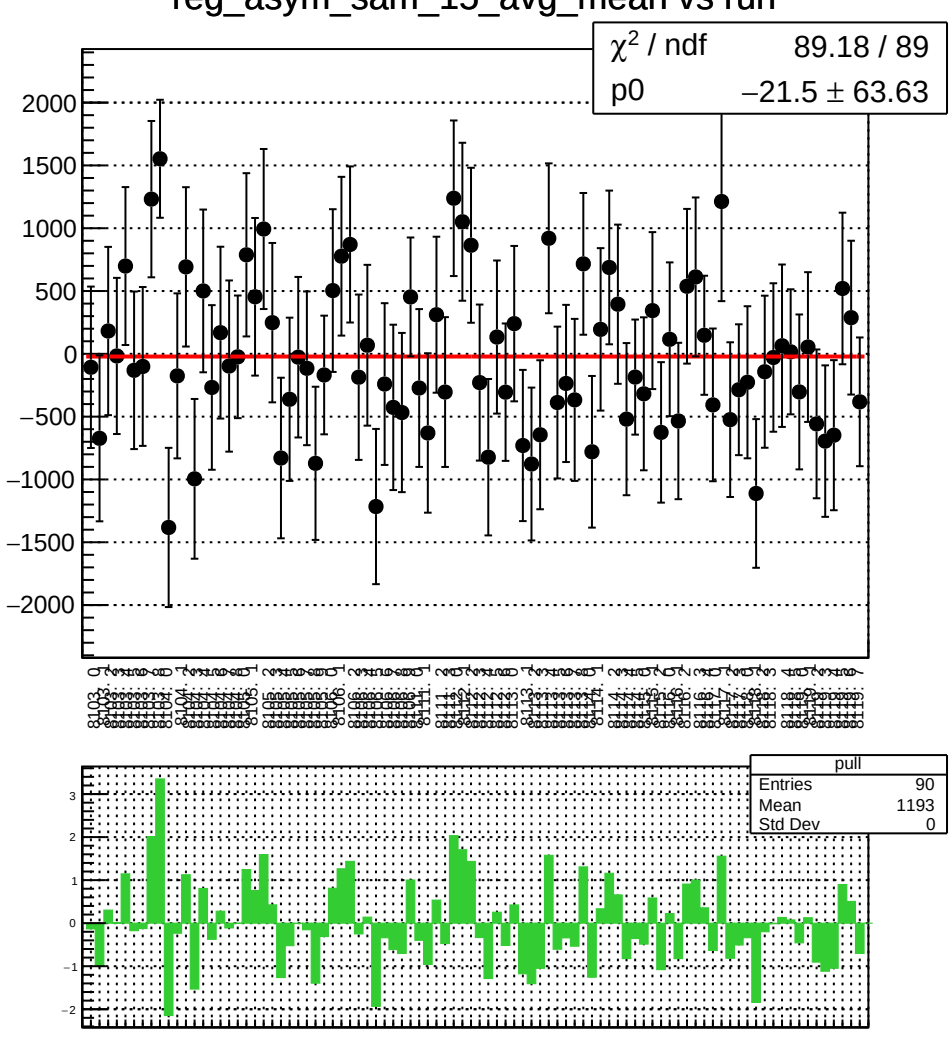

pull1D
Entries 90
Mean −0.006393
Std Dev 0.977

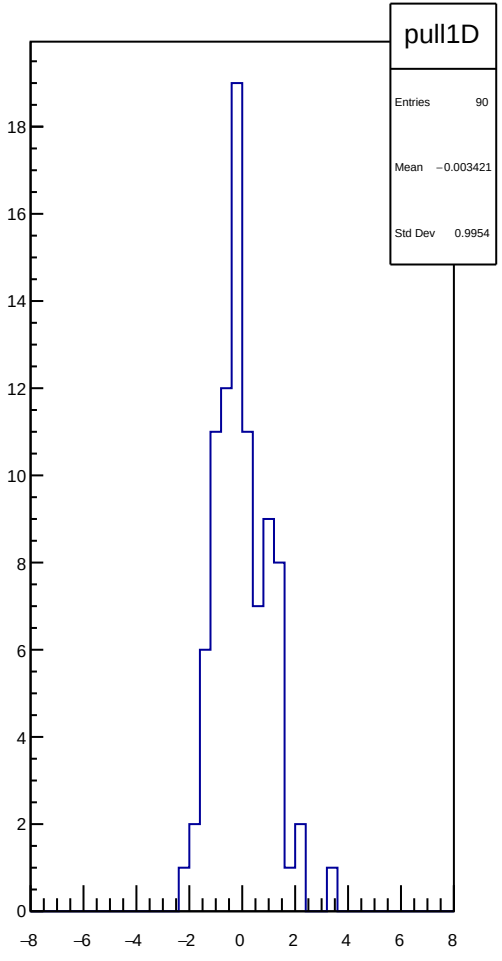

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7549 / 89
p0 28.43 ± 0.02149
38
36
34
32
30
28
26
24

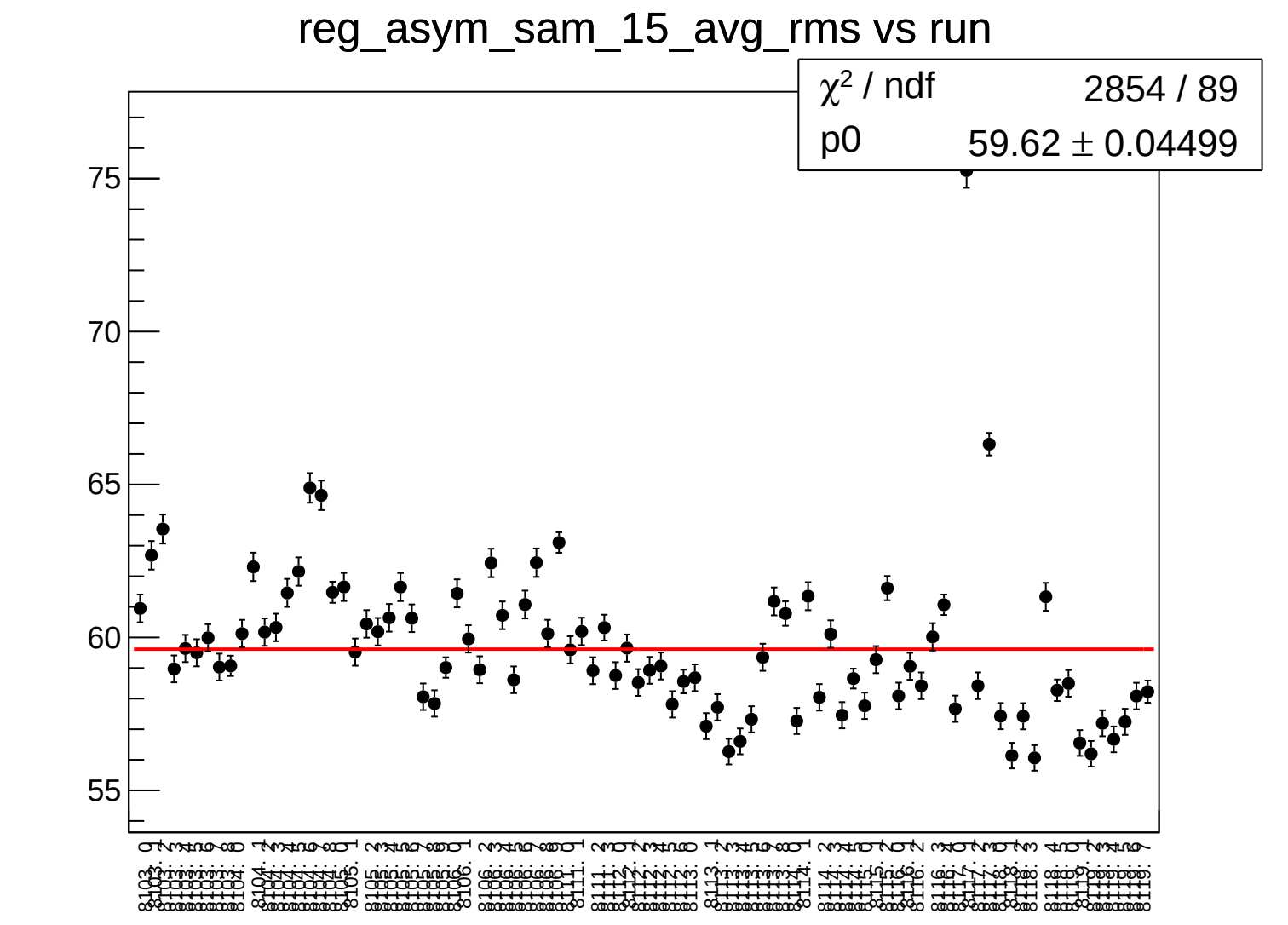

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.19 / 89
p0 −1.909e−15 ± 3.029e−14
pull
Entries 90
Mean 216.8
Std Dev 0

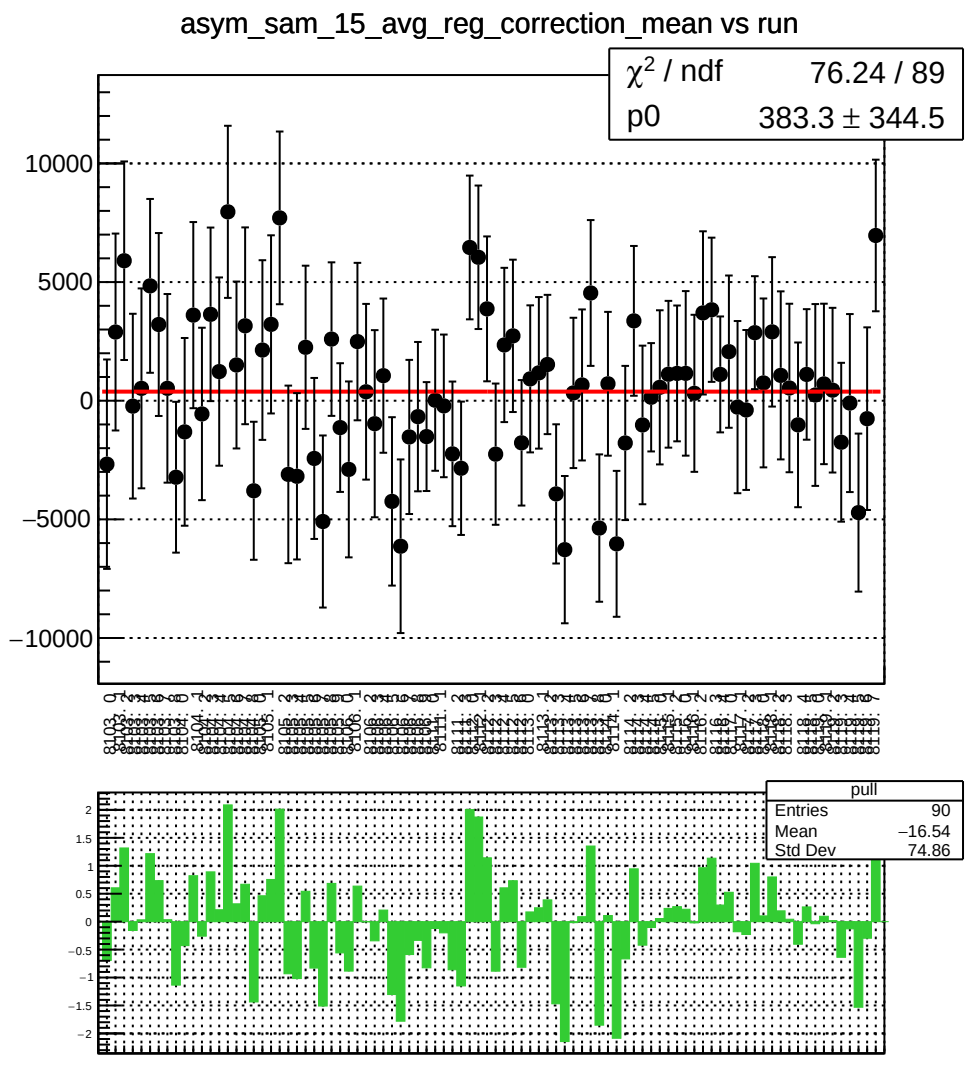

pull1D
Entries 90
Mean 0.02573
Std Dev 0.8507

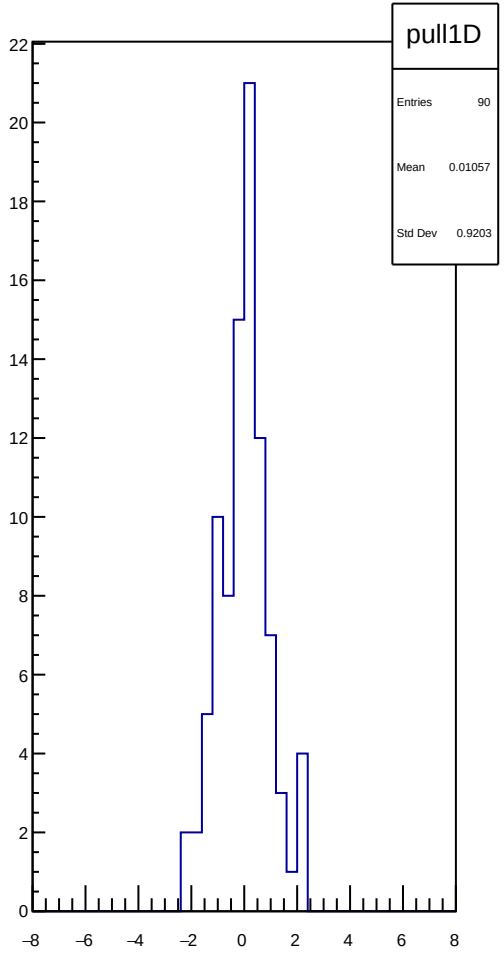

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.137e+05 / 89
p0 2.292e−11 ± 2.142e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

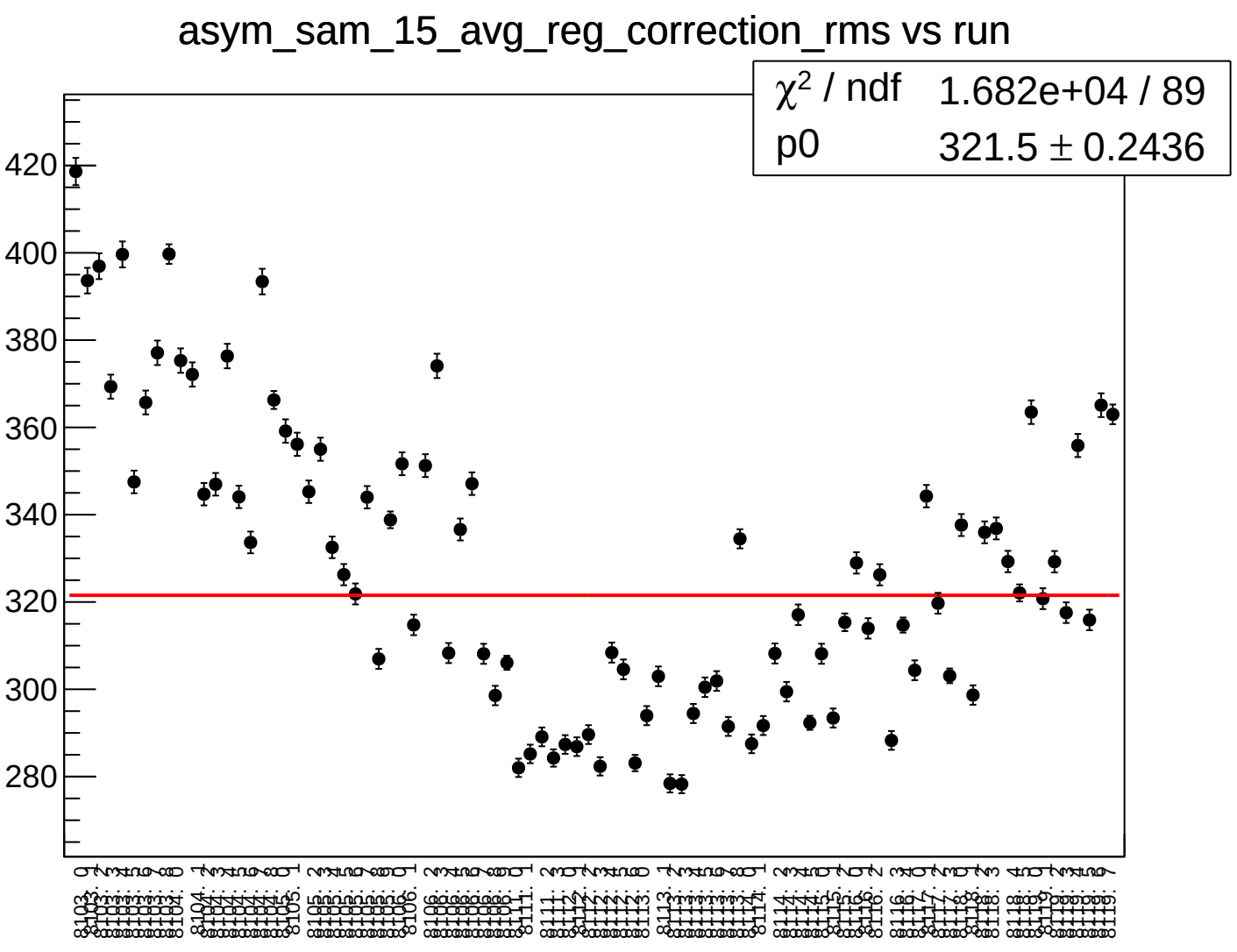

reg_asym_sam_15_avg_mean vs run
χ² / ndf 89.18 / 89
p0 −21.5 ± 63.63
pull
Entries 90
Mean 1193
Std Dev 0

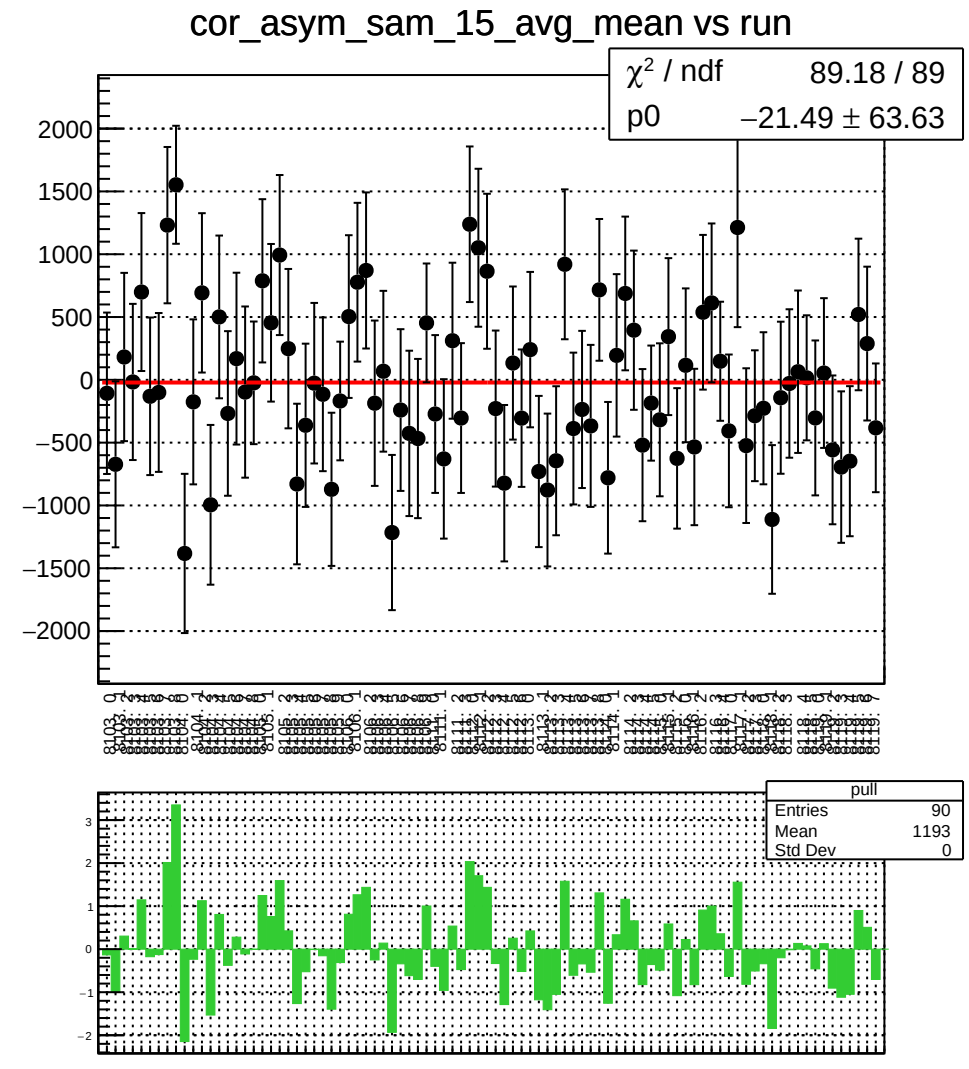

pull1D
Entries 90
Mean −0.003421
Std Dev 0.9954

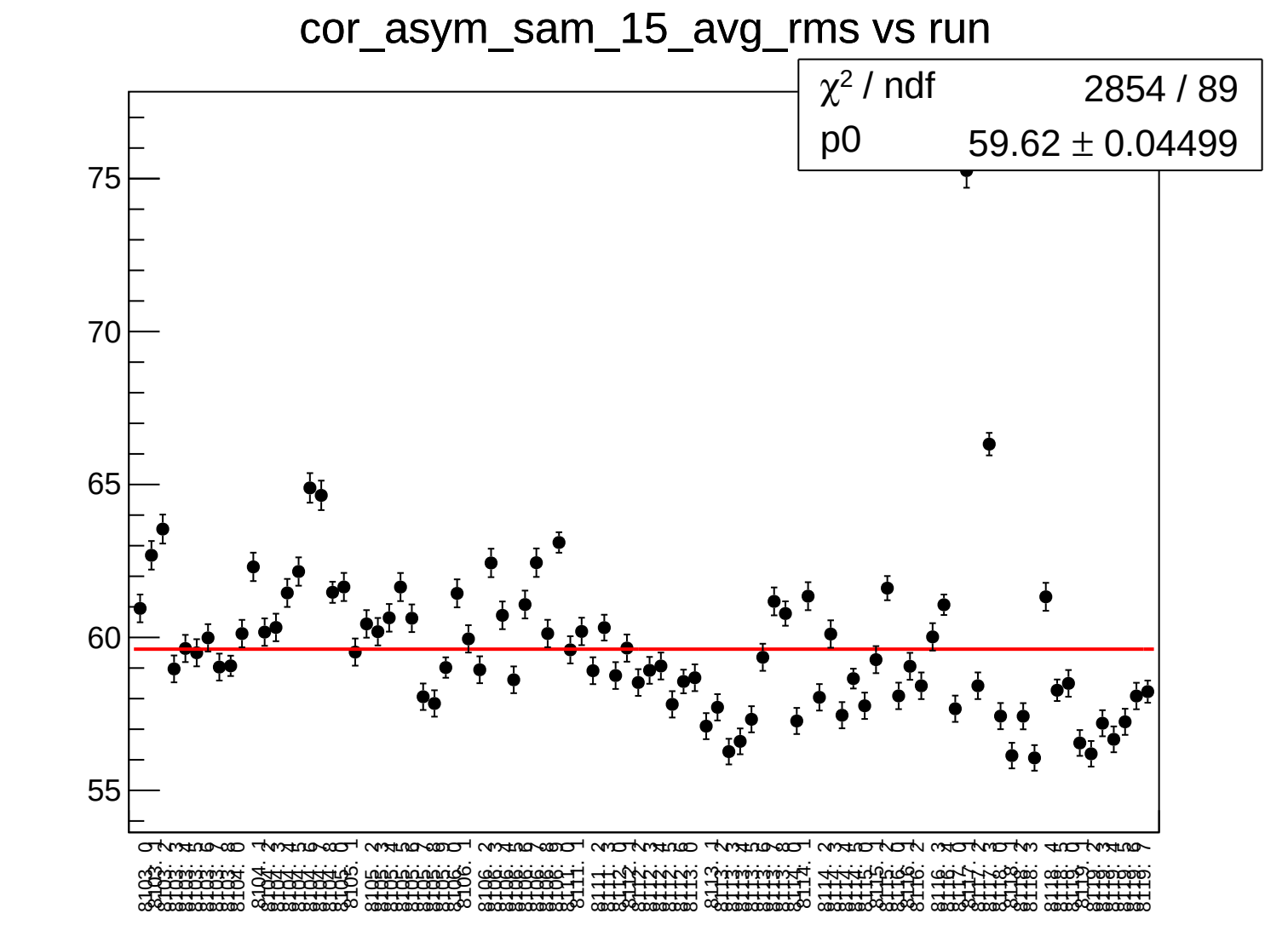

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 2854 / 89
p0 59.62 ± 0.04499
75
70
65
60
55

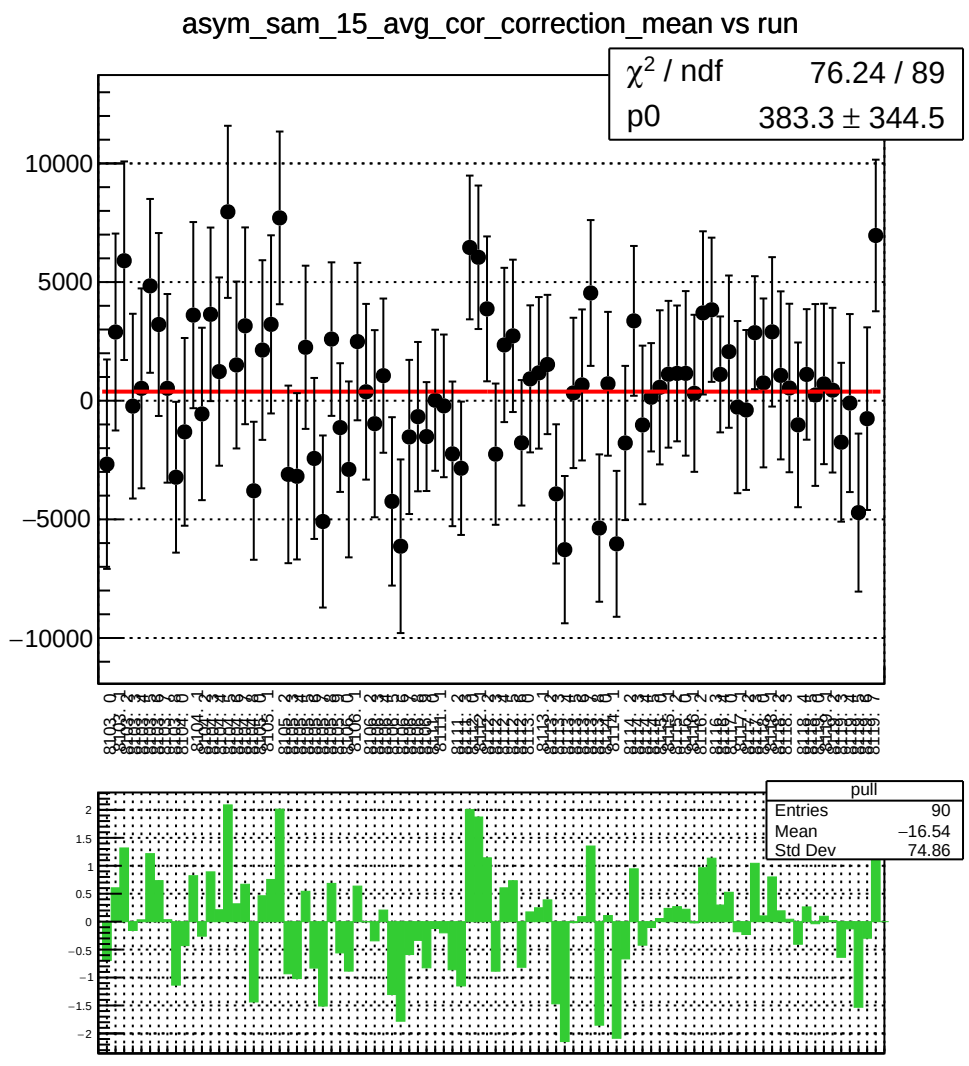

asym_sam_15_avg_reg_correction_mean vs run
χ^2 / ndf 76.24 / 89
p0 383.3 ± 344.5
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −16.54
Std Dev 74.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

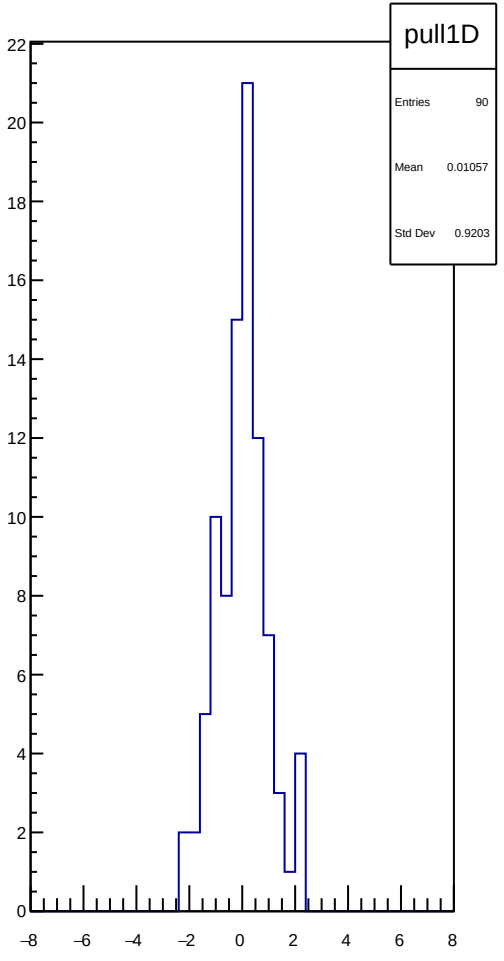

pull1D
Entries 90
Mean 0.01057
Std Dev 0.9203
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

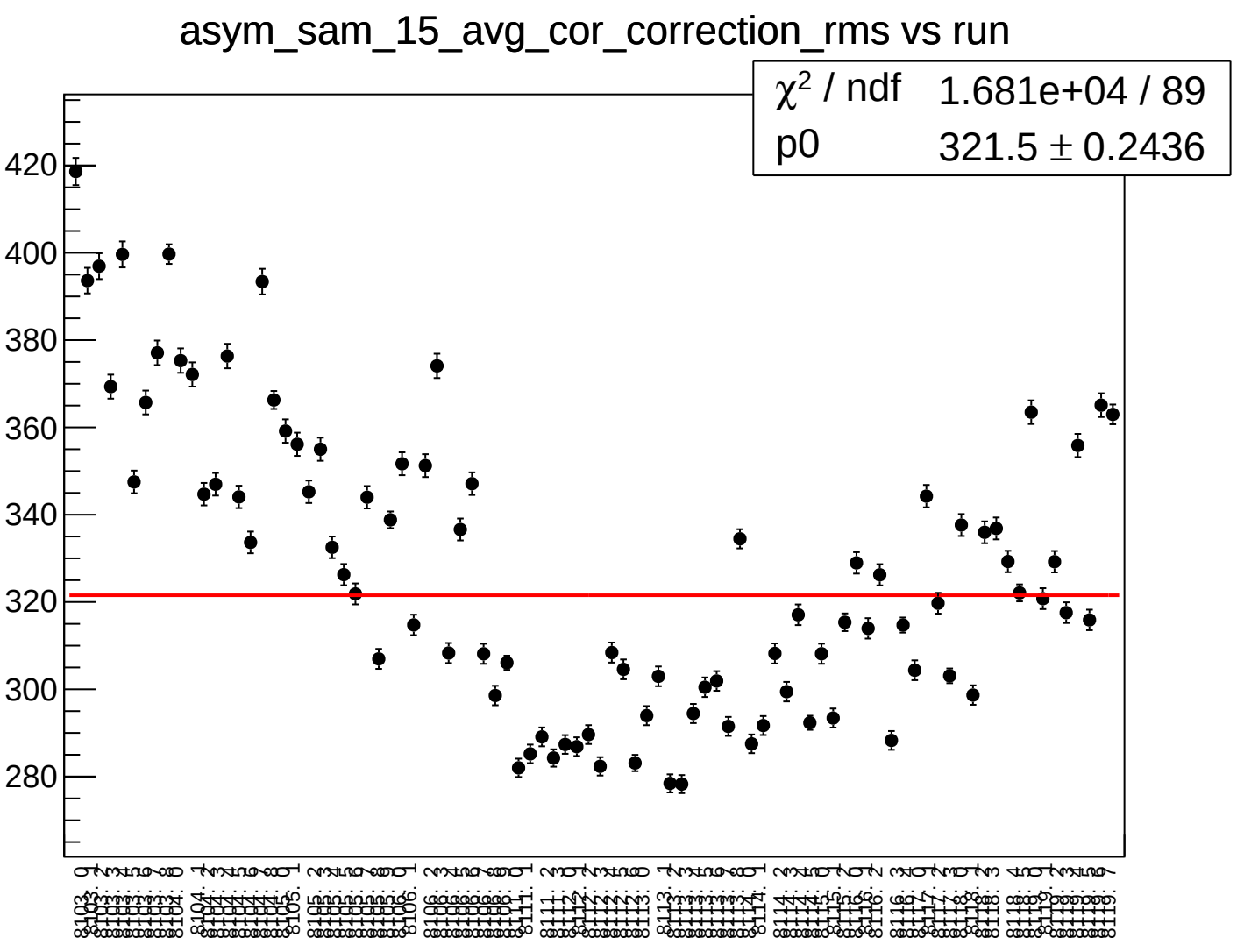

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.682e+04 / 89
p0 321.5 ± 0.2436
420
400
380
360
340
320
300
280

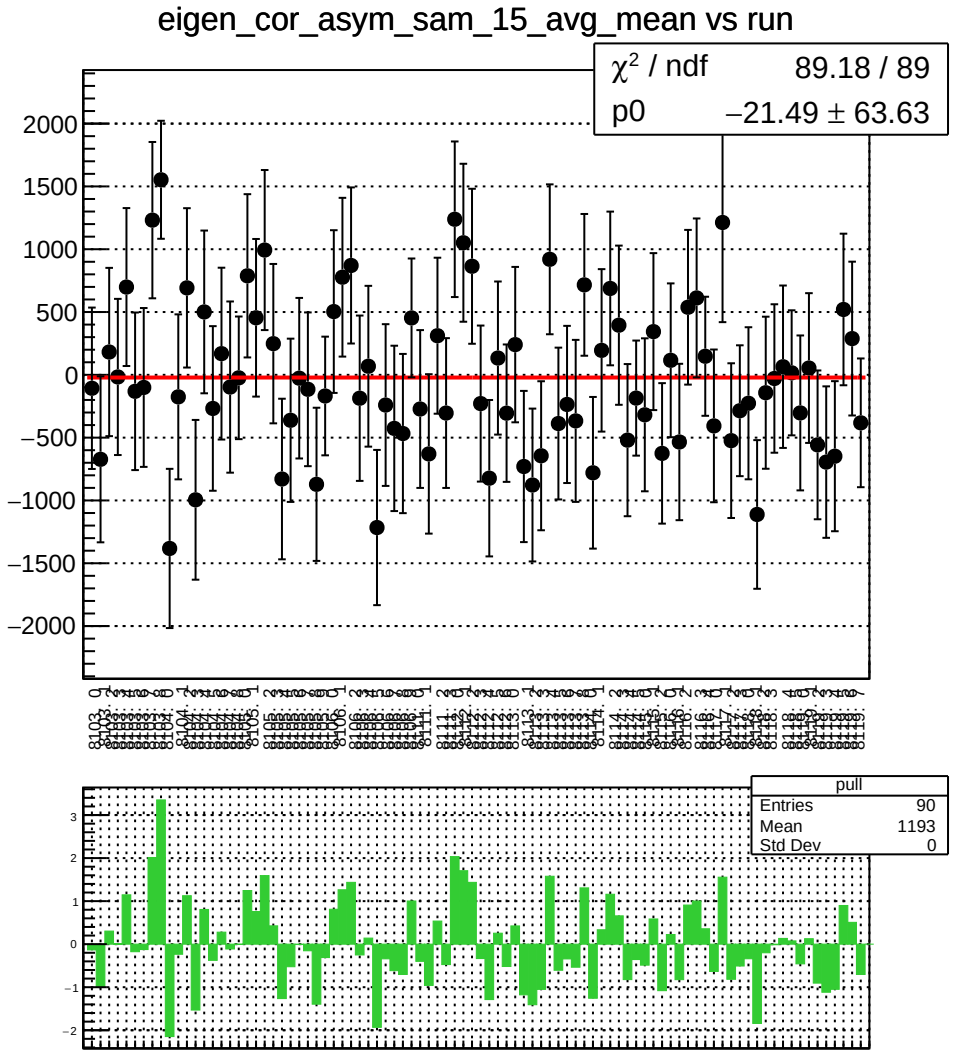

cor_asym_sam_15_avg_mean vs run
χ² / ndf 89.18 / 89
p0 −21.49 ± 63.63
pull
Entries 90
Mean 1193
Std Dev 0
pull1D
Entries 90
Mean −0.00342
Std Dev 0.9954

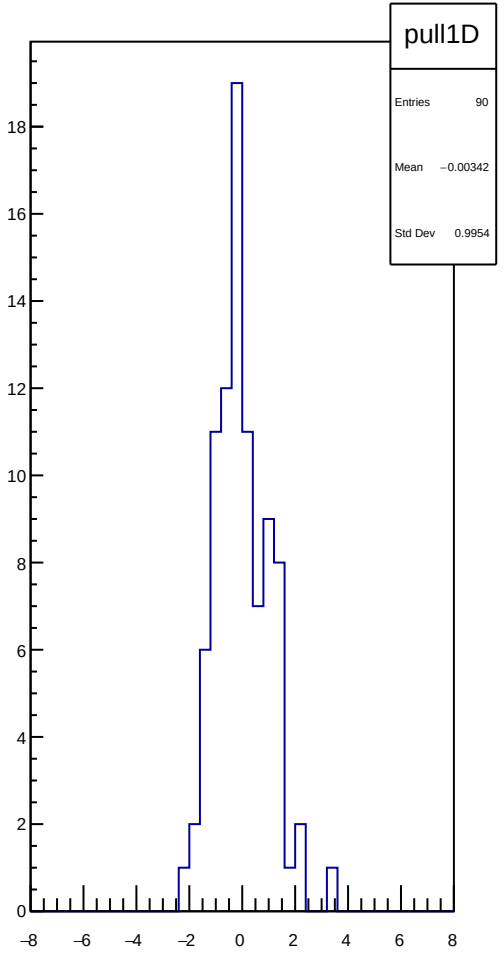

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2854 / 89
p0 59.62 ± 0.04499
75
70
65
60
55

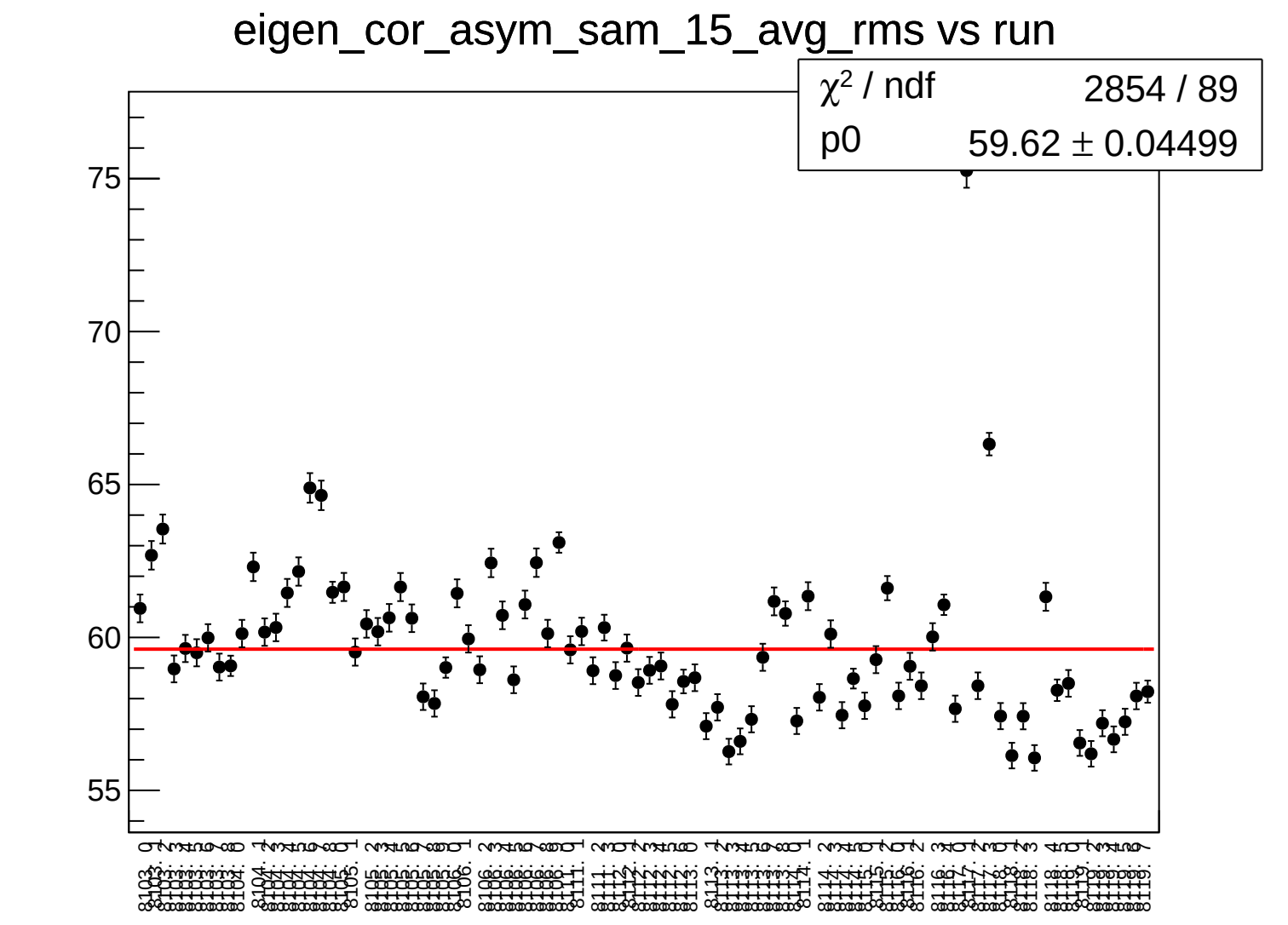

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 76.24 / 89
p0 383.3 ± 344.5
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −16.54
Std Dev 74.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

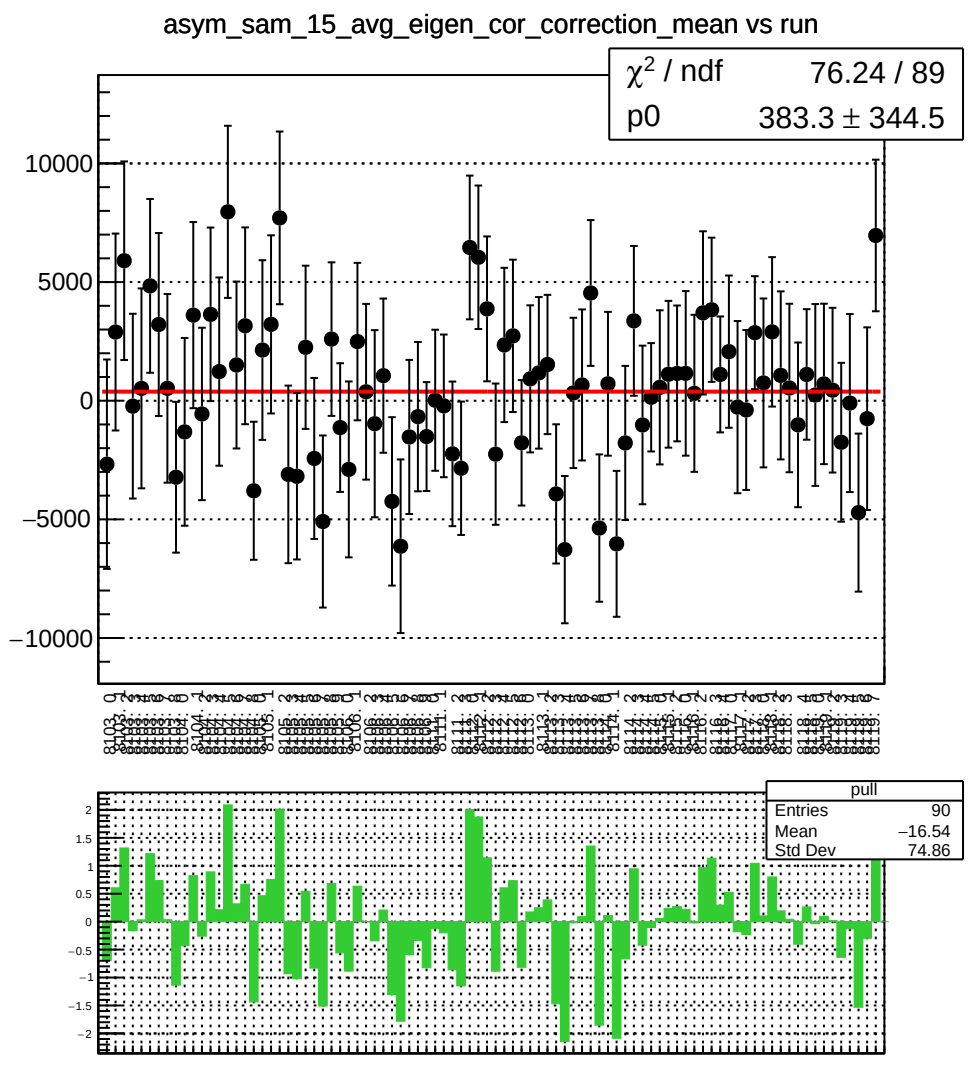

pull1D
Entries 90
Mean 0.01057
Std Dev 0.9203
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

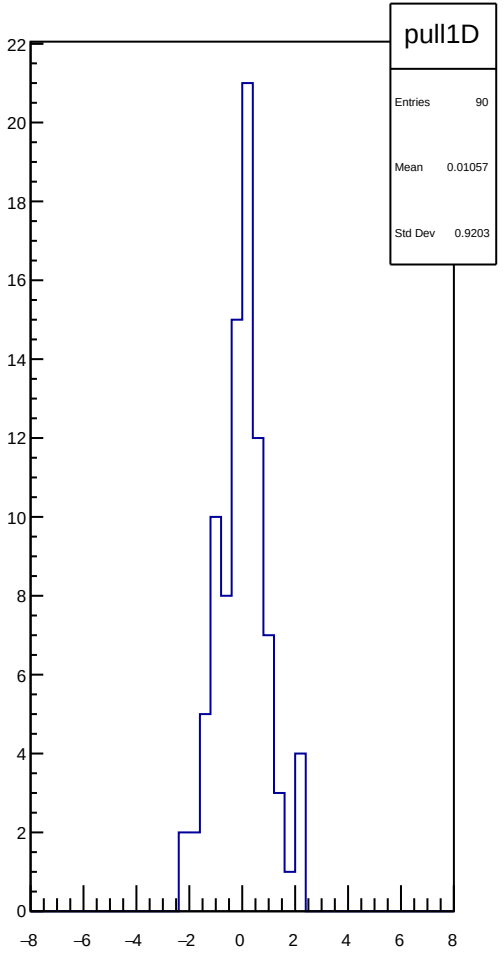

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.681e+04 / 89
p0 321.5 ± 0.2436
420
400
380
360
340
320
300
280

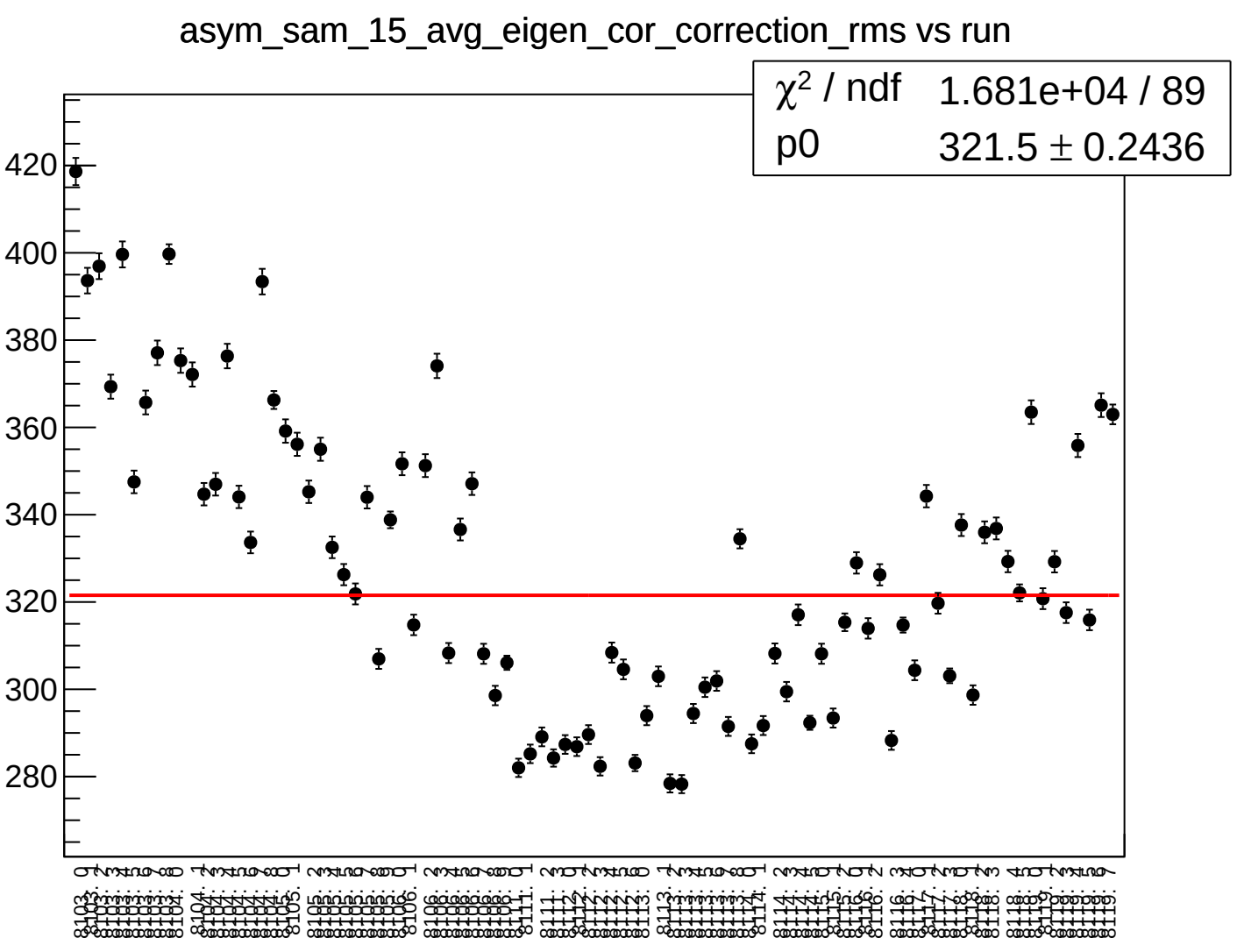

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 89.18 / 89
p0 −21.49 ± 63.63
pull
Entries 90
Mean 1193
Std Dev 0

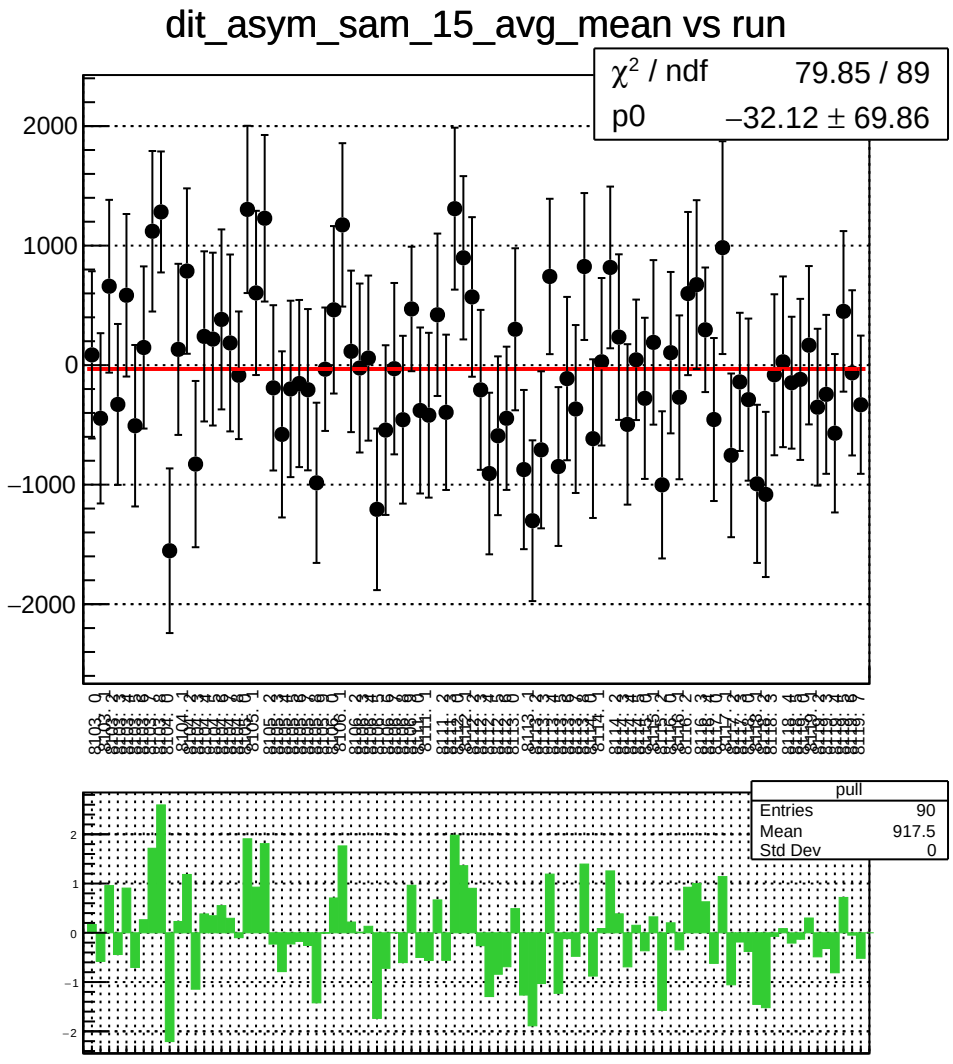

pull1D
Entries 90
Mean −0.00342
Std Dev 0.9954

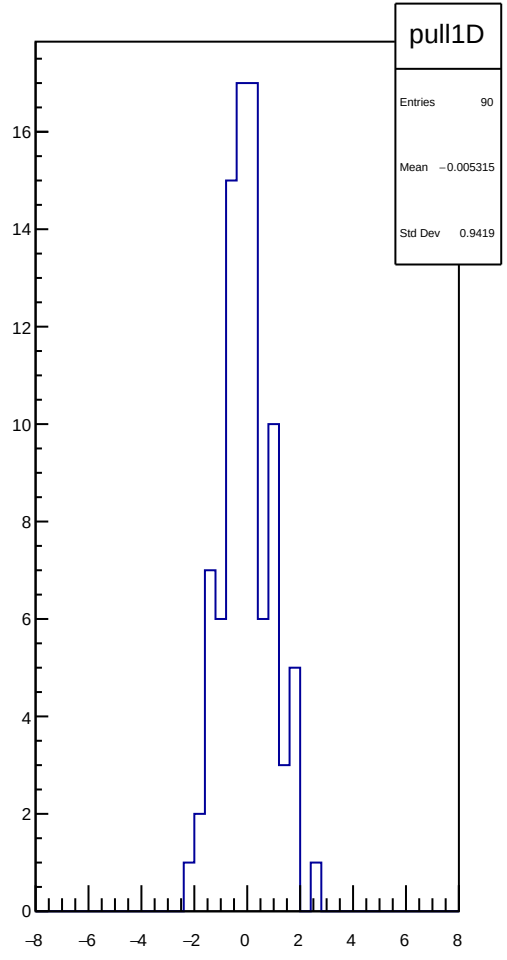

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 2854 / 89
p0 59.62 ± 0.04499
75
70
65
60
55

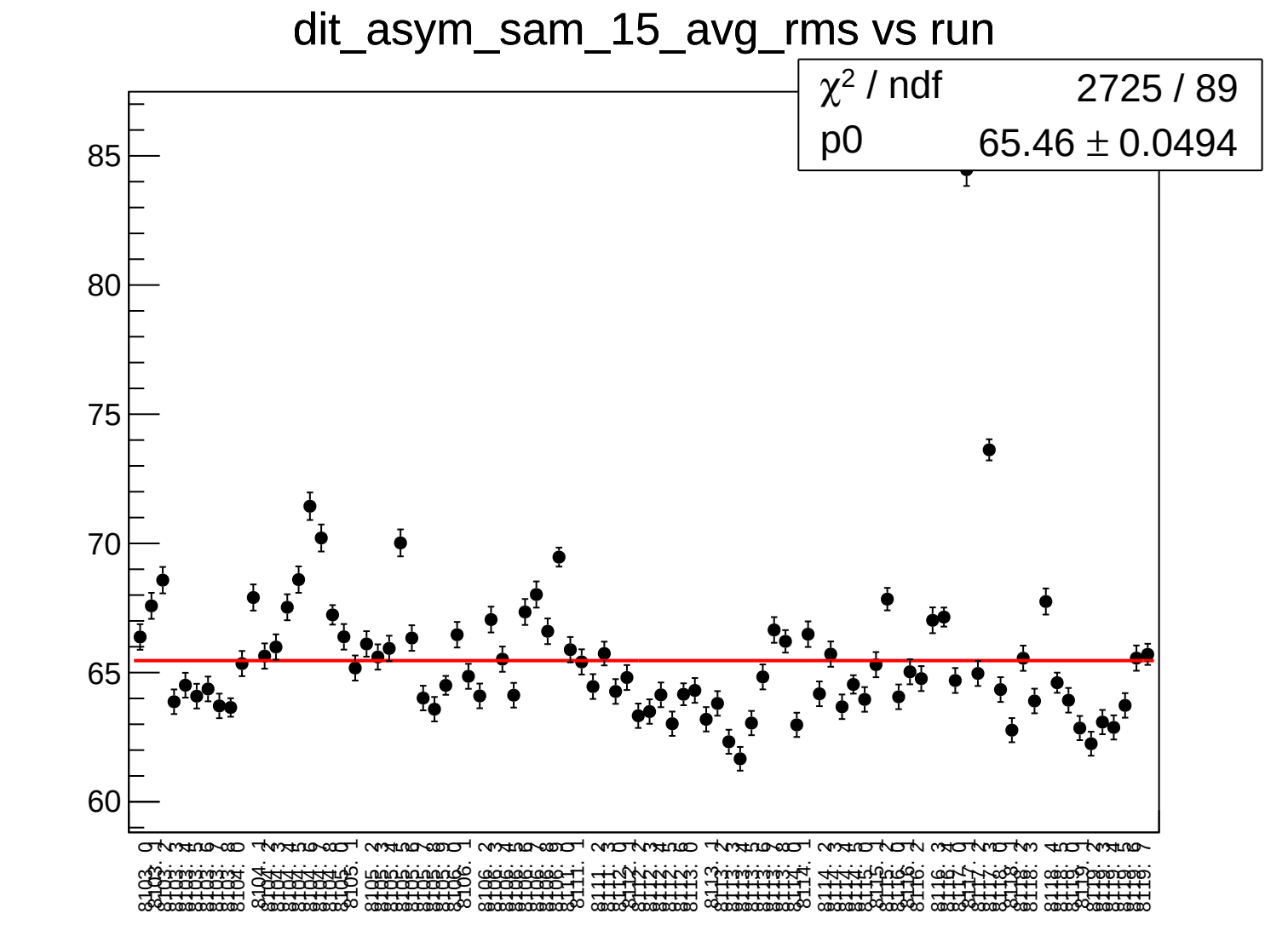

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.24 / 89
p0 383.3 ± 344.5
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −16.54
Std Dev 74.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

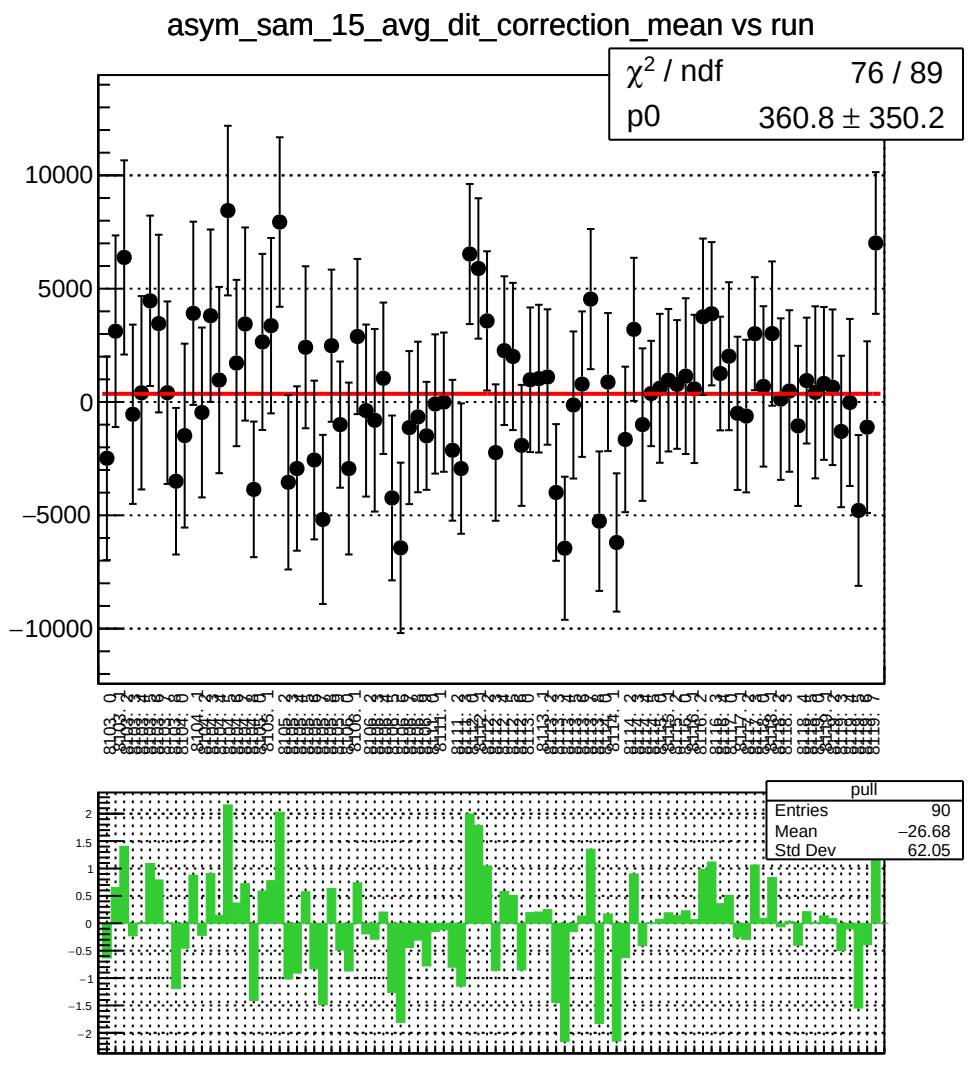

pull1D
Entries 90
Mean 0.01057
Std Dev 0.9203
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

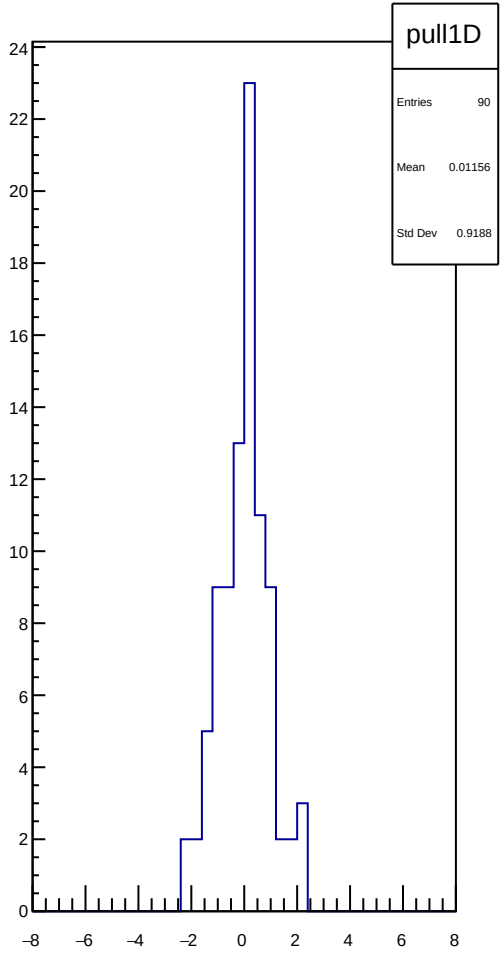

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.681e+04 / 89
p0 321.5 ± 0.2436
420
400
380
360
340
320
300
280

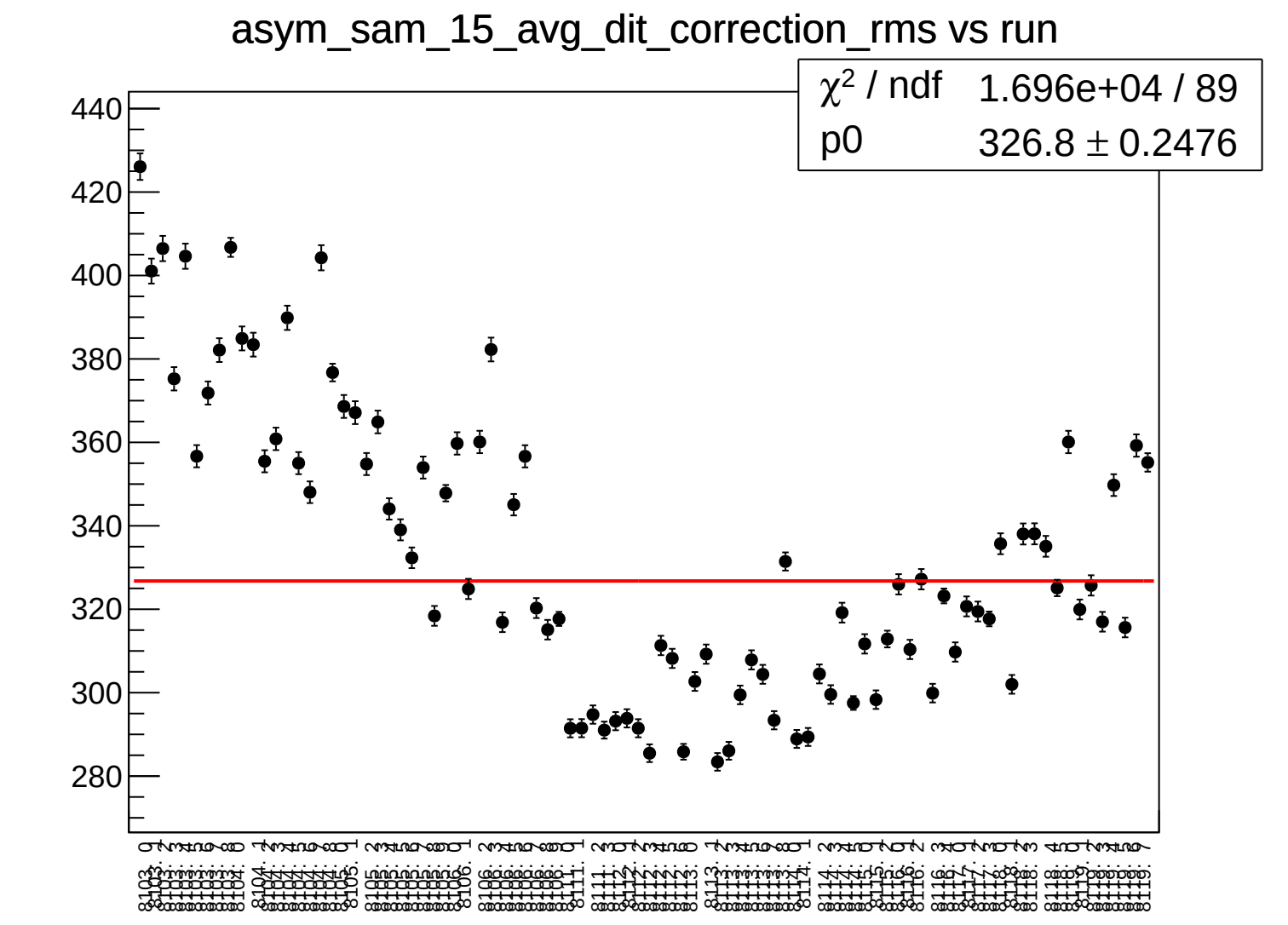

dit_asym_sam_15_avg_mean vs run
χ² / ndf 79.85 / 89
p0 −32.12 ± 69.86
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 917.5
Std Dev 0
2
1
0
−1
−2

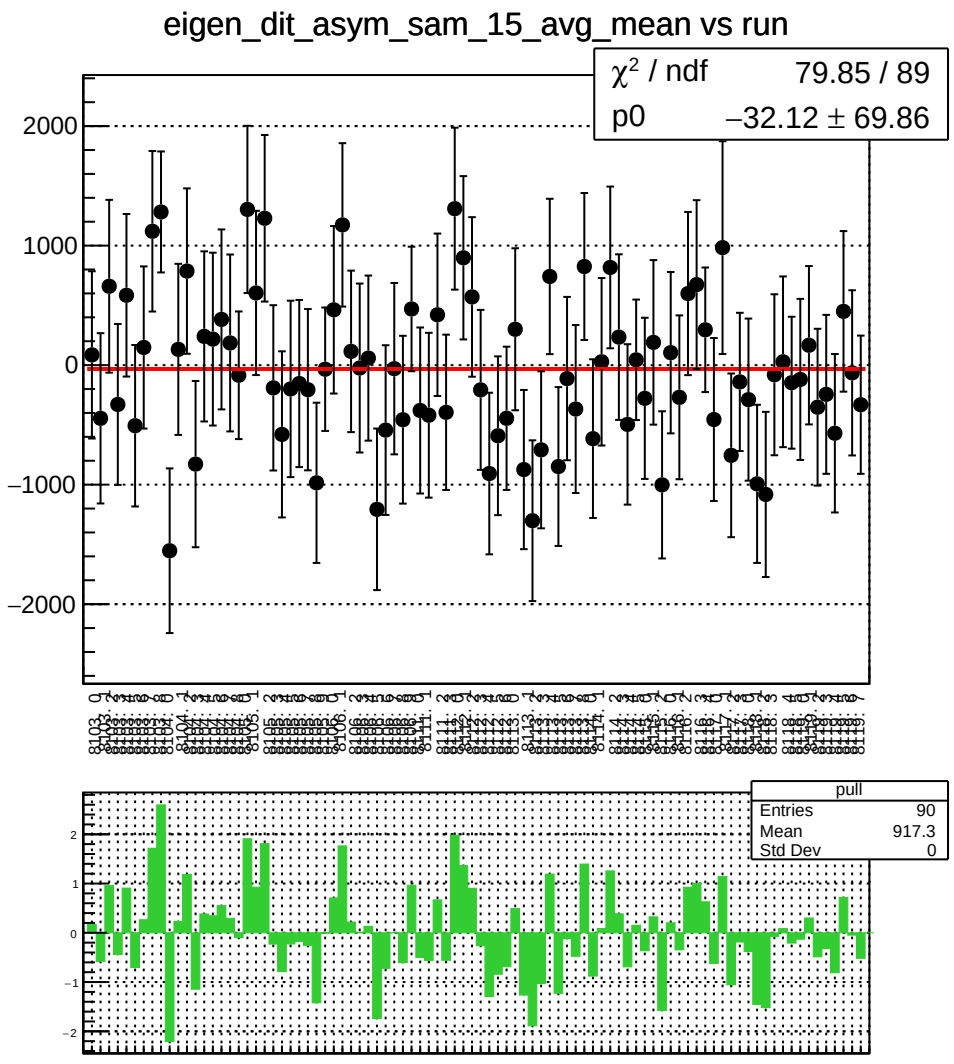

pull1D
Entries 90
Mean −0.005315
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

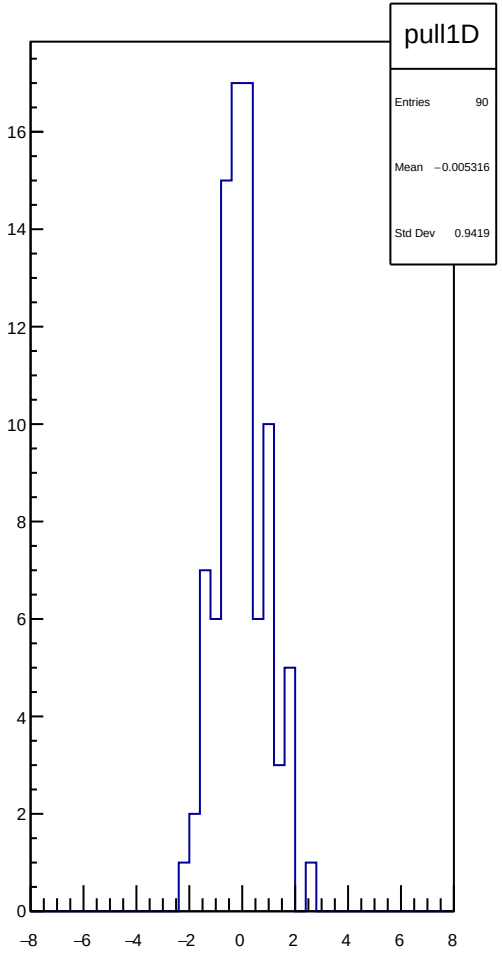

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2725 / 89
p0 65.46 ± 0.0494
85
80
75
70
65
60

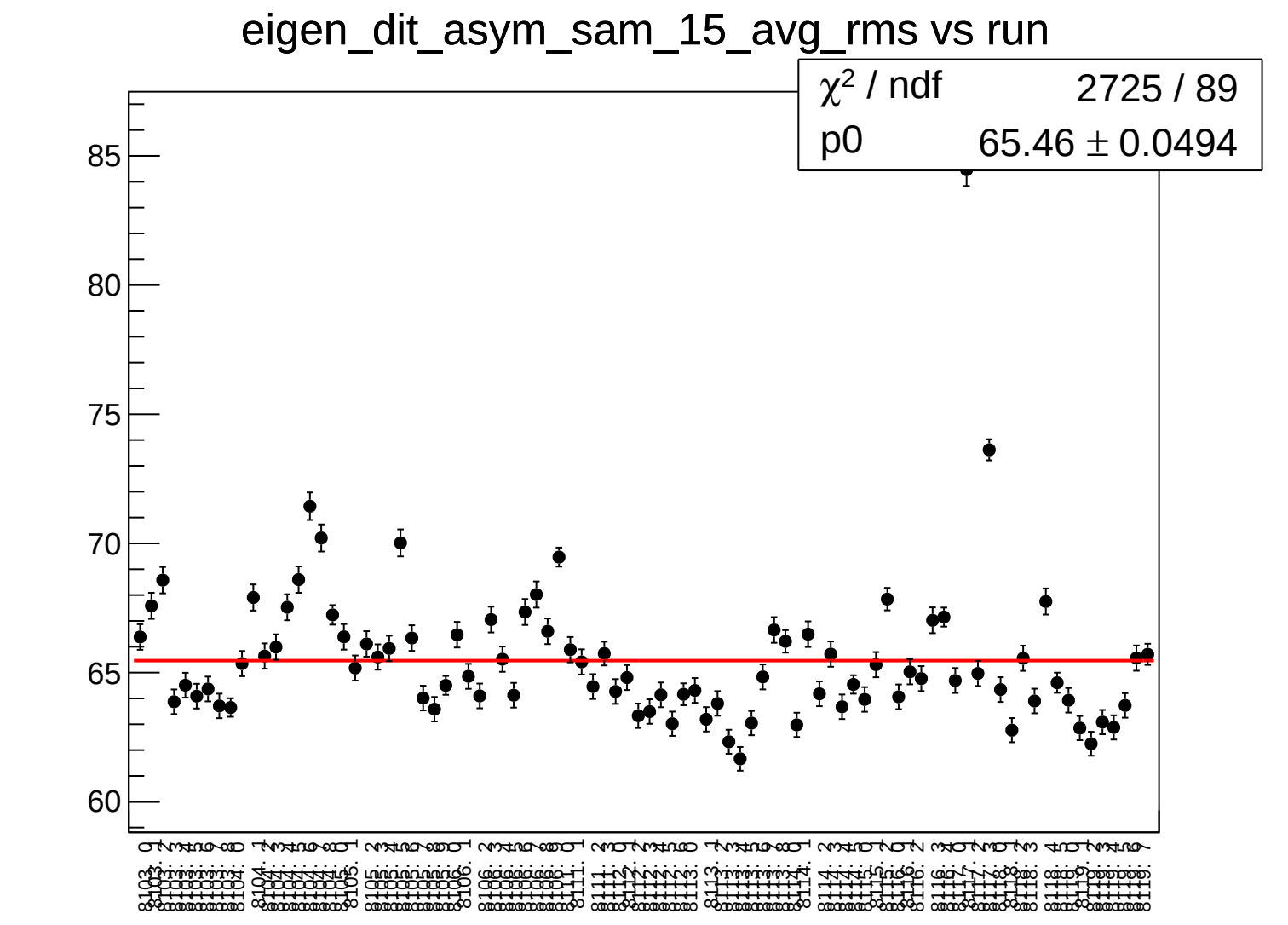

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 76 / 89
p0 360.8 ± 350.2
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −26.68
Std Dev 62.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

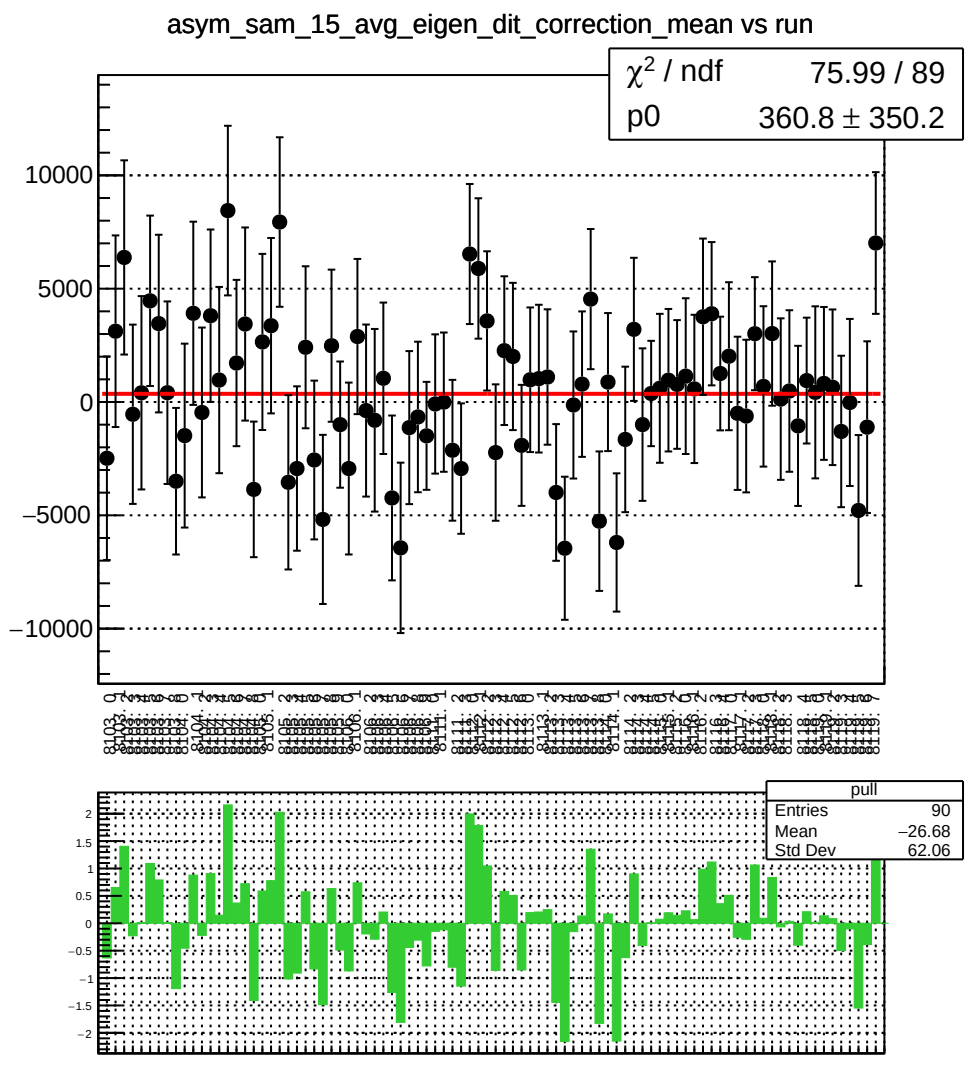

pull1D
Entries 90
Mean 0.01156
Std Dev 0.9188
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

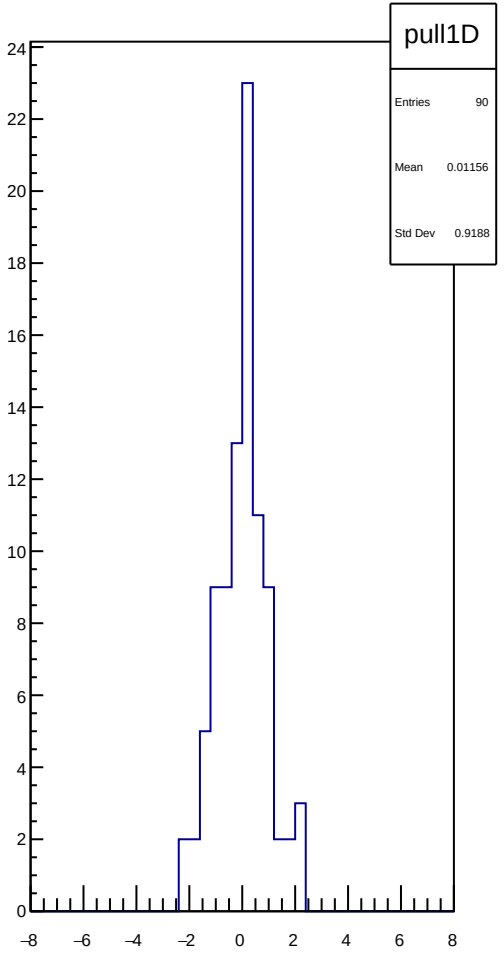

asym_sam_15_avg_dit_correction_rms vs run
χ^2 / ndf 1.696e+04 / 89
p0 326.8 ± 0.2476
440
420
400
380
360
340
320
300
280

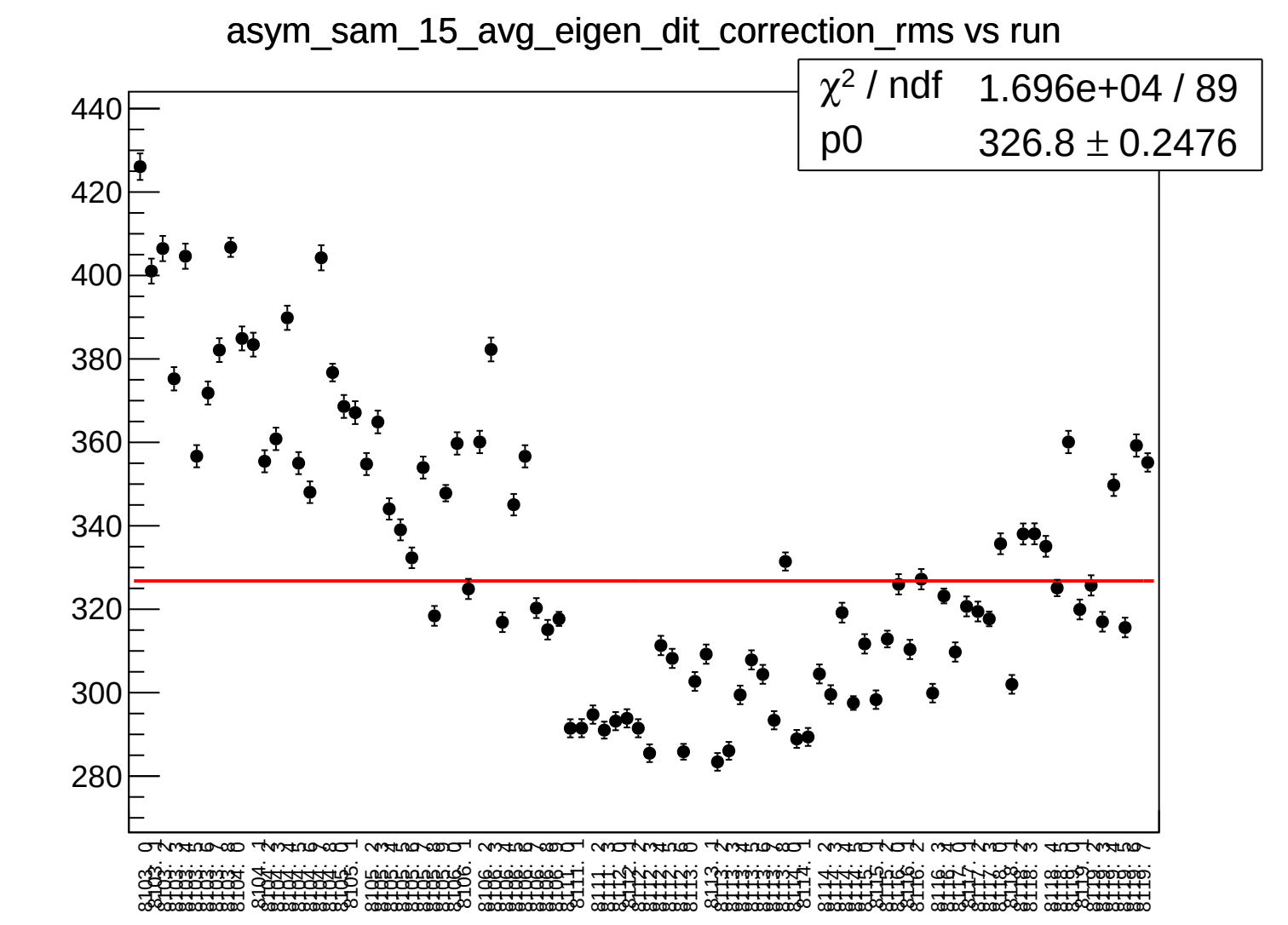

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 79.85 / 89
p0 −32.12 ± 69.86
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 917.3
Std Dev 0
2
1
0
−1
−2

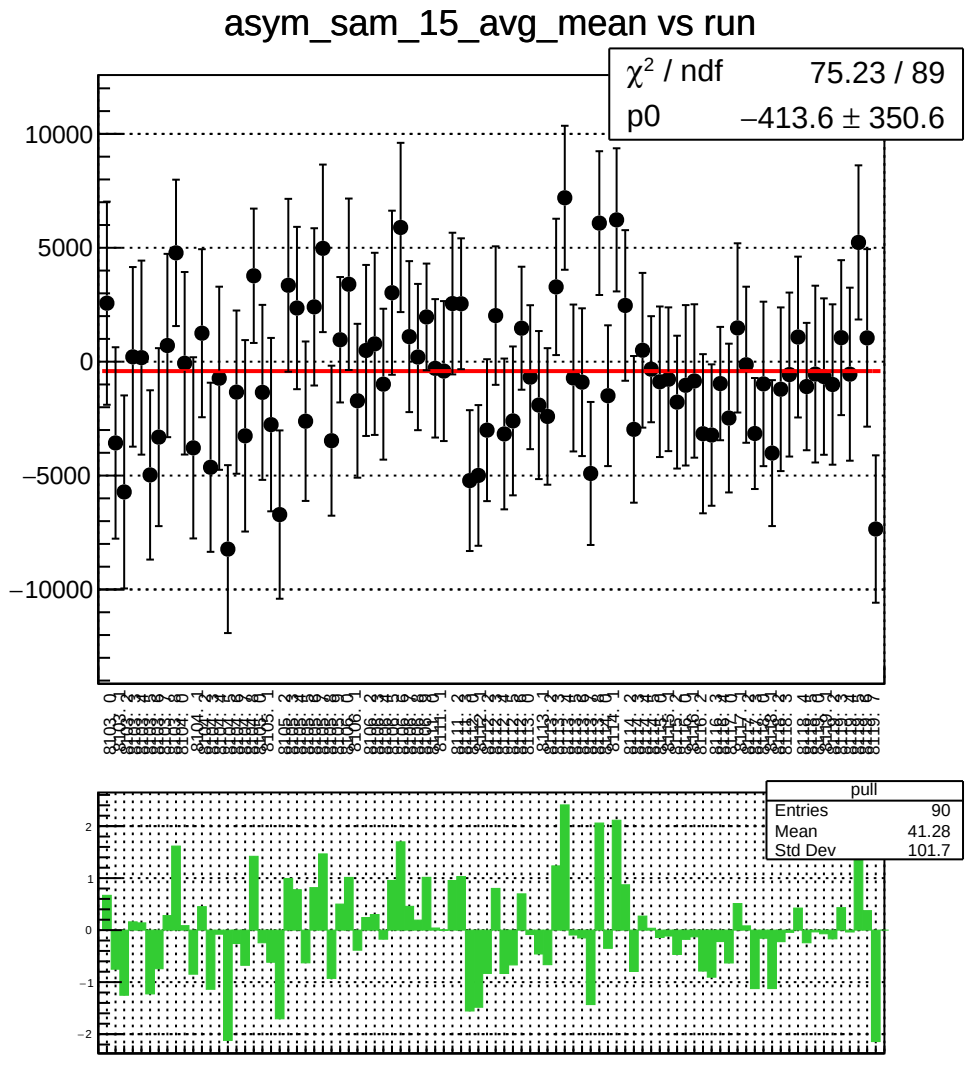

pull1D
Entries 90
Mean −0.005316
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

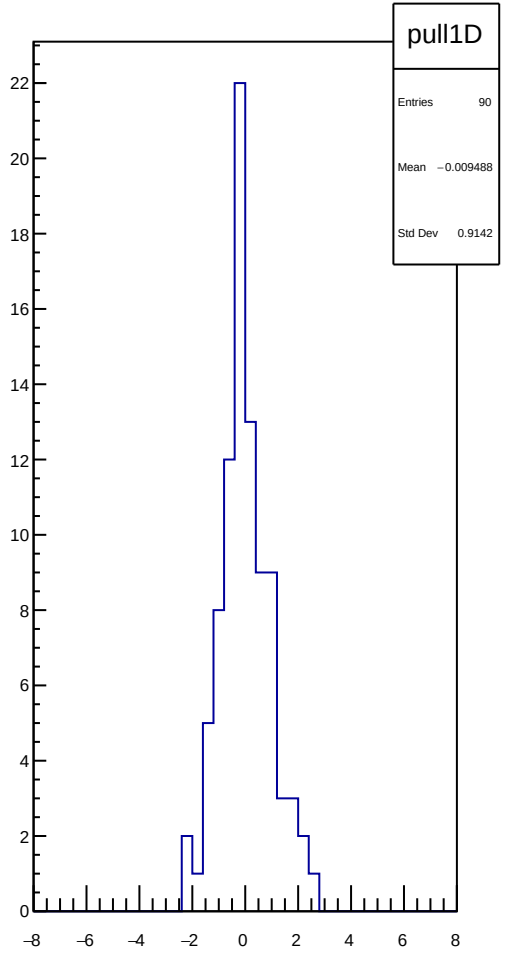

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2725 / 89
p0 65.46 ± 0.0494
85
80
75
70
65
60

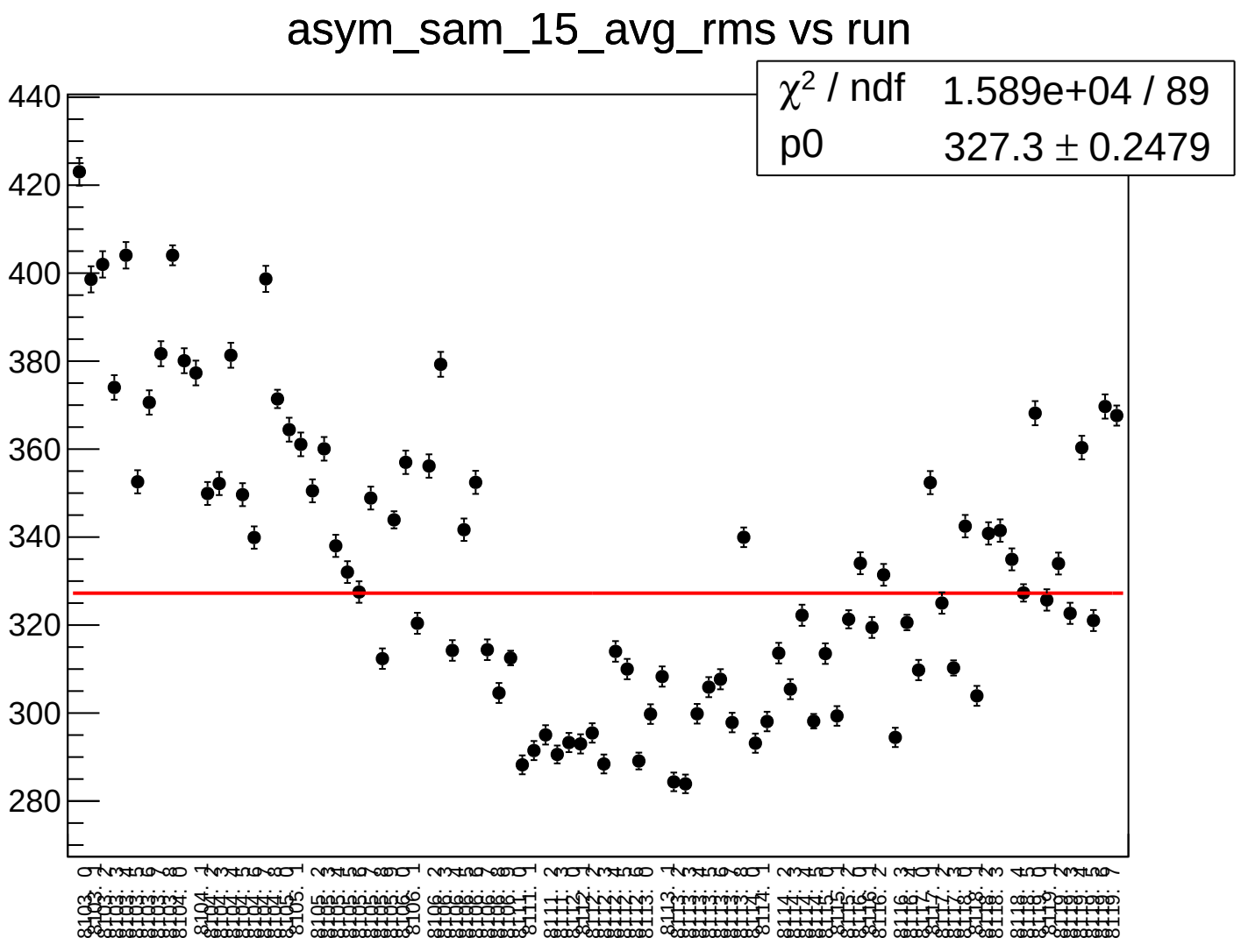

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.99 / 89
p0 360.8 ± 350.2
10000
5000
0
−5000
−10000
pull
Entries 90
Mean −26.68
Std Dev 62.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

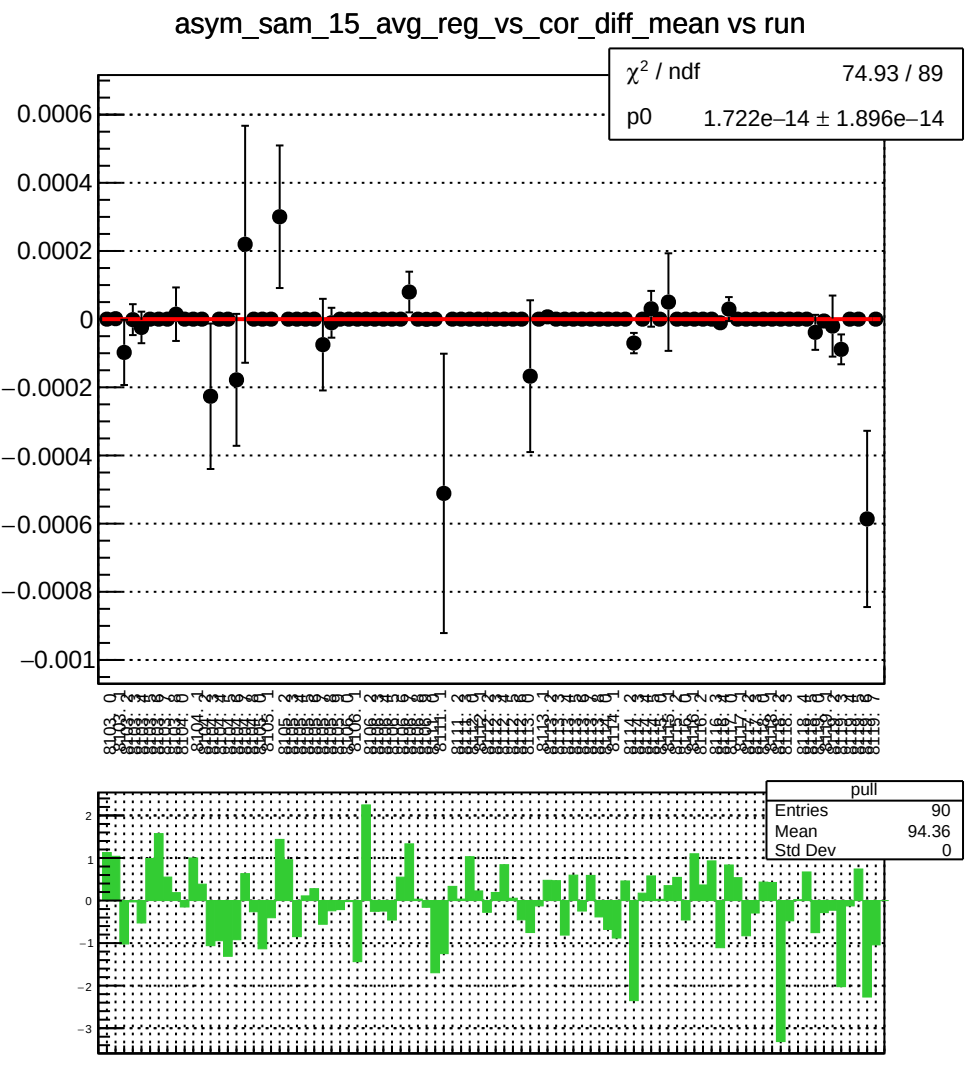

pull1D
Entries 90
Mean 0.01156
Std Dev 0.9188
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

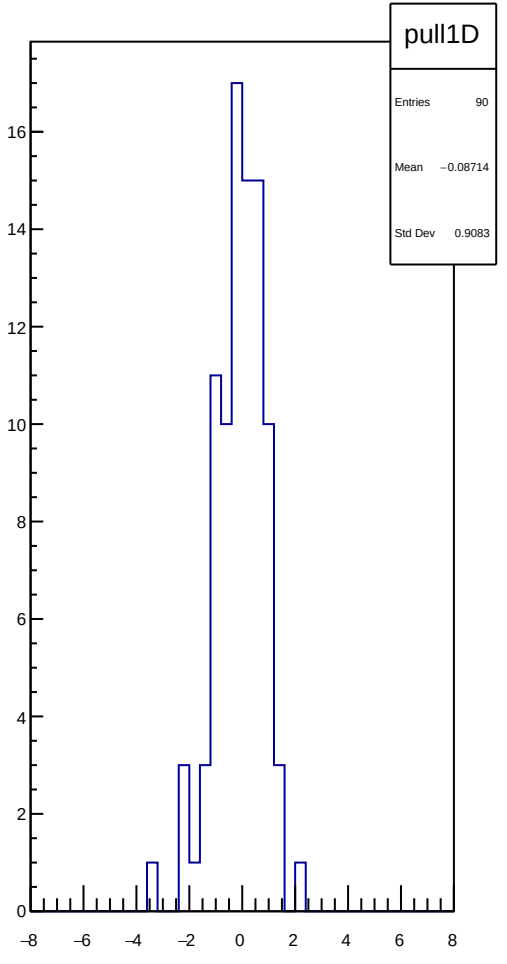

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 1.696e+04 / 89
p0 326.8 ± 0.2476
440
420
400
380
360
340
320
300
280

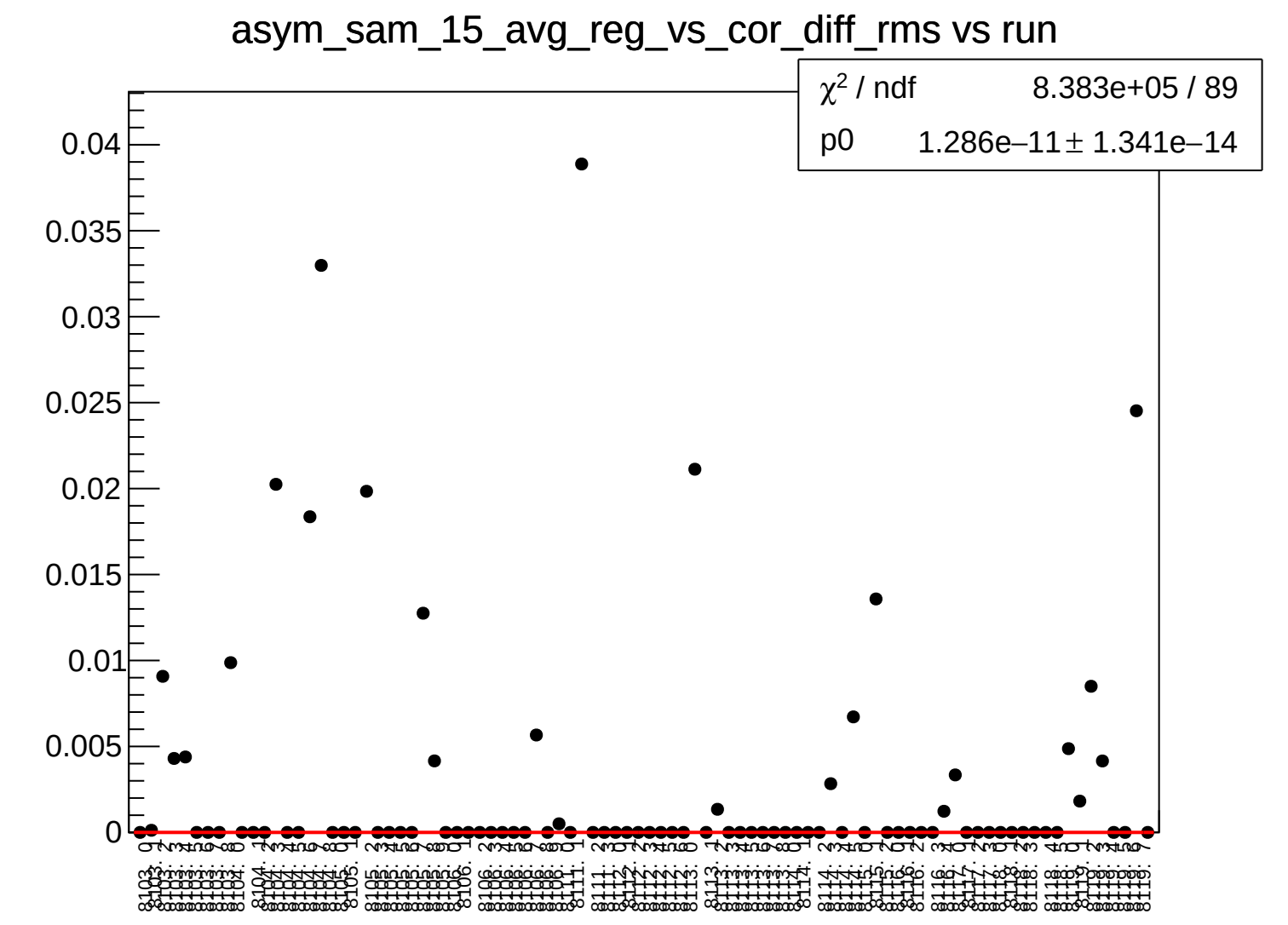

asym_sam_15_avg_mean vs run
χ² / ndf 75.23 / 89
p0 −413.6 ± 350.6
10000
5000
0
−5000
−10000
pull
Entries 90
Mean 41.28
Std Dev 101.7
2
1
0
−1
−2

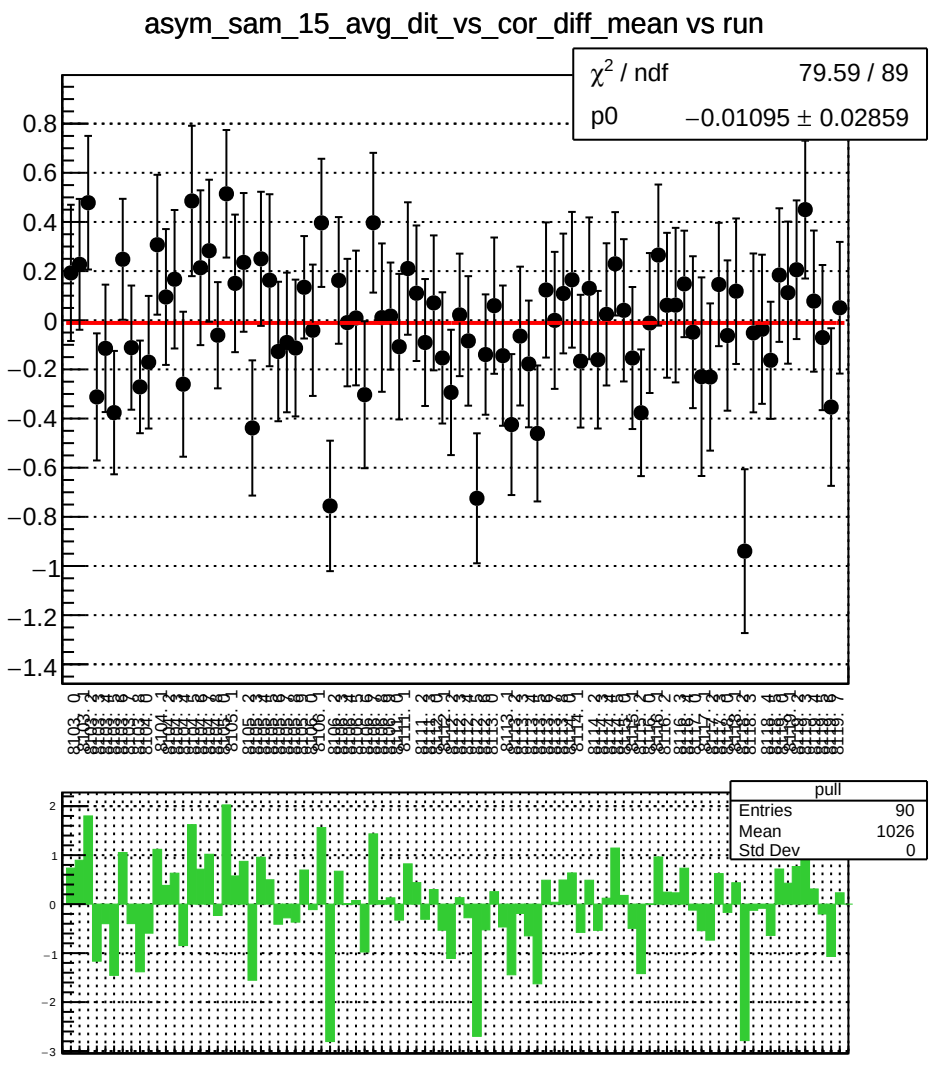

pull1D
Entries 90
Mean −0.009488
Std Dev 0.9142
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

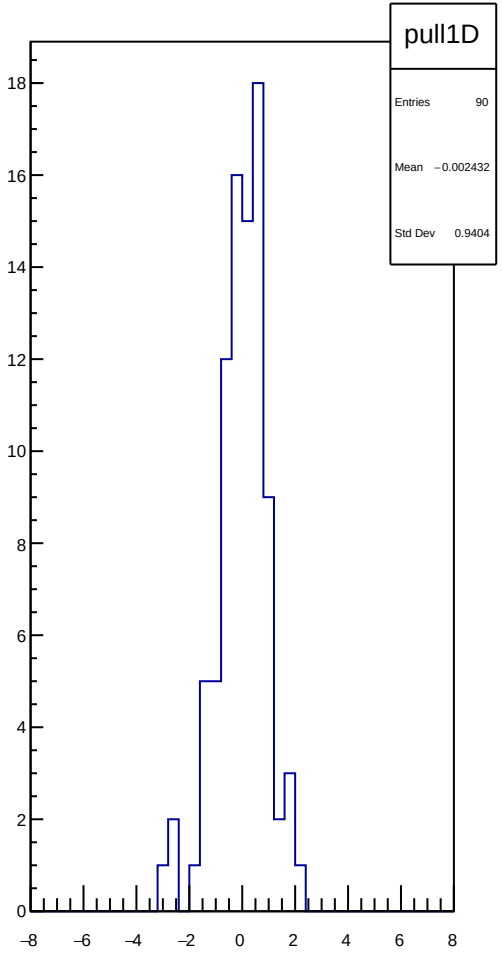

asym_sam_15_avg_rms vs run
χ^2 / ndf 1.589e+04 / 89
p0 327.3 ± 0.2479
440
420
400
380
360
340
320
300
280

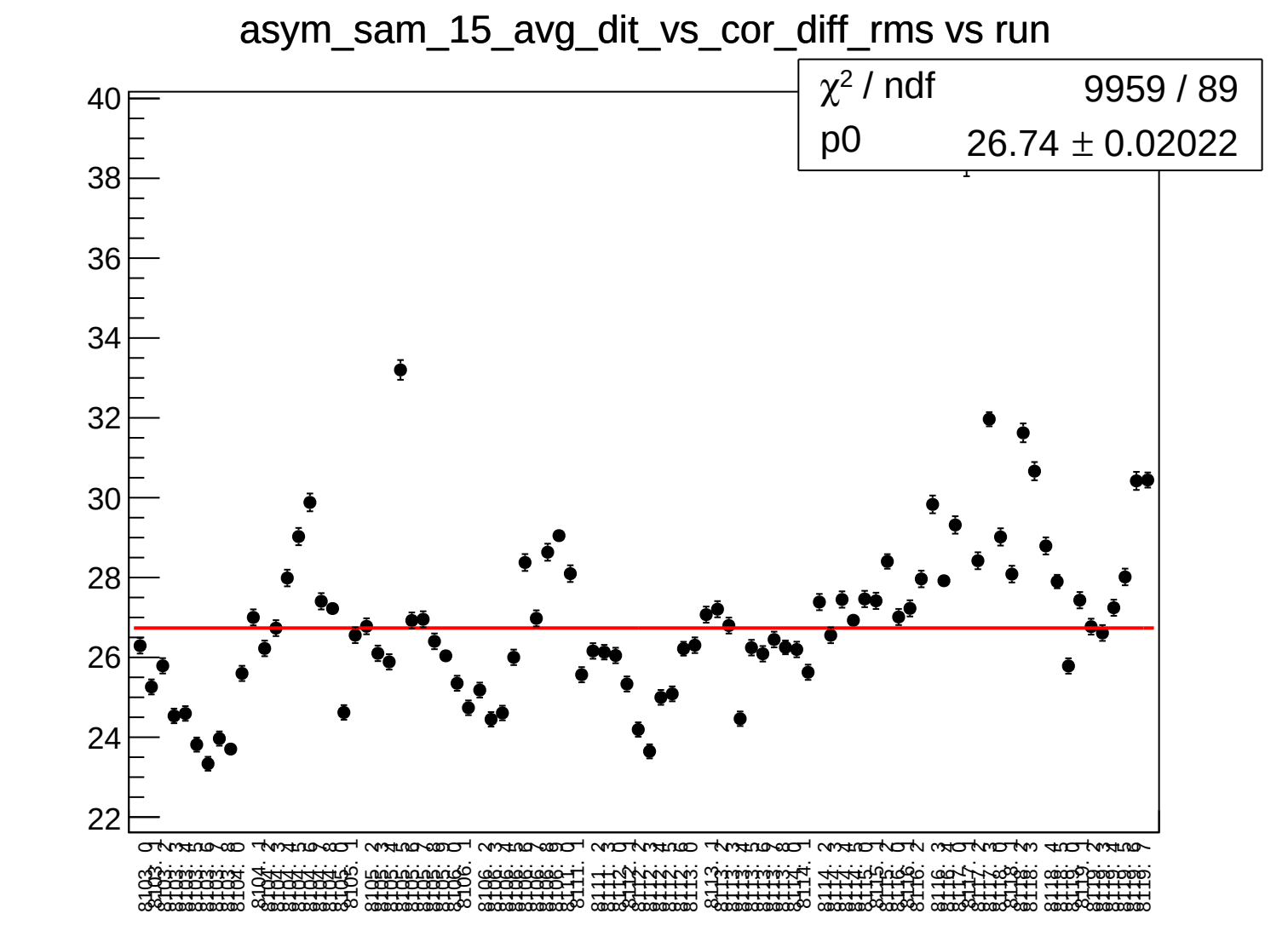

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.93 / 89
p0 1.722e−14 ± 1.896e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 90
Mean 94.36
Std Dev 0
2
1
0
−1
−2
−3

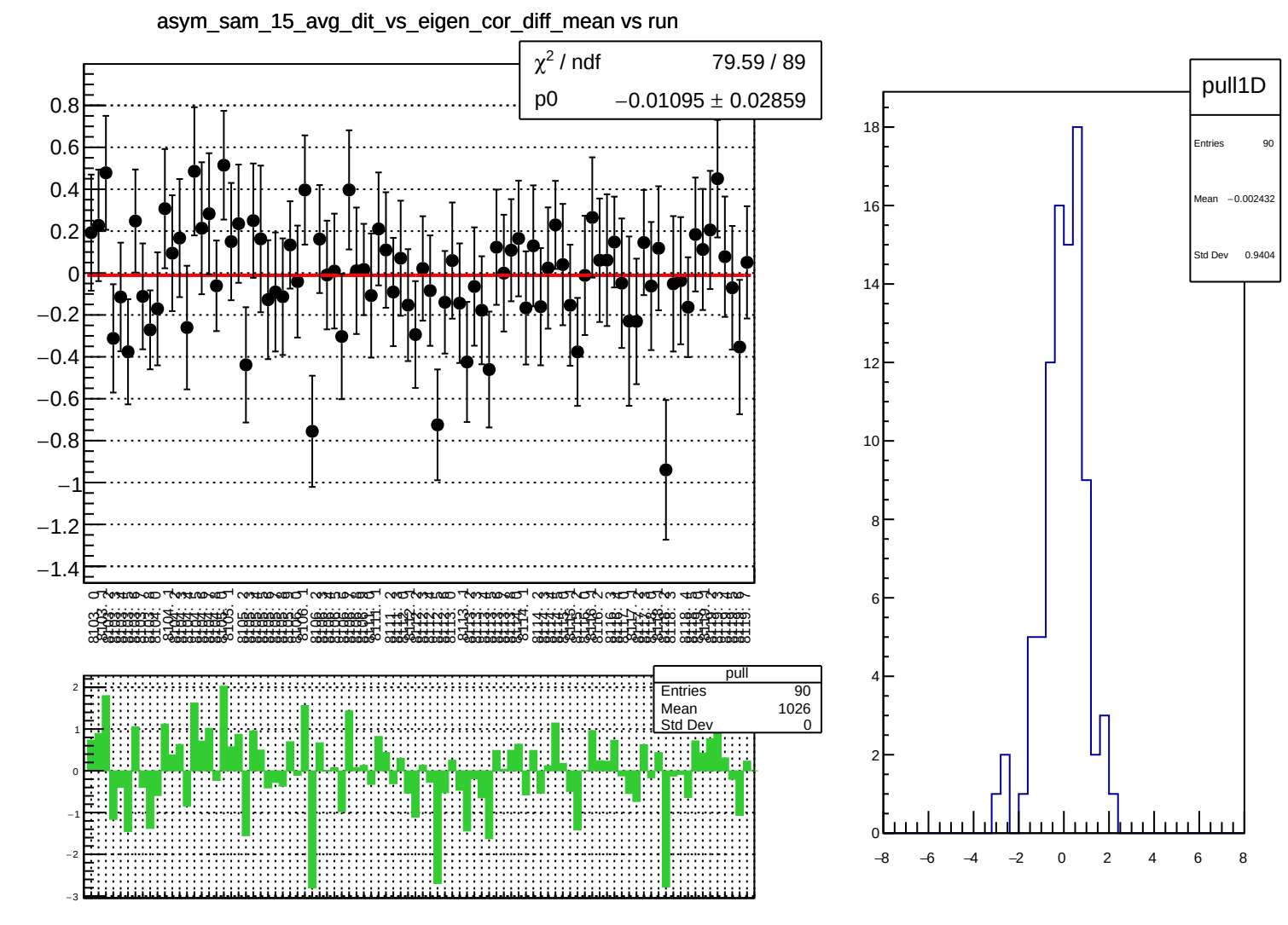

pull1D
Entries 90
Mean −0.08714
Std Dev 0.9083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

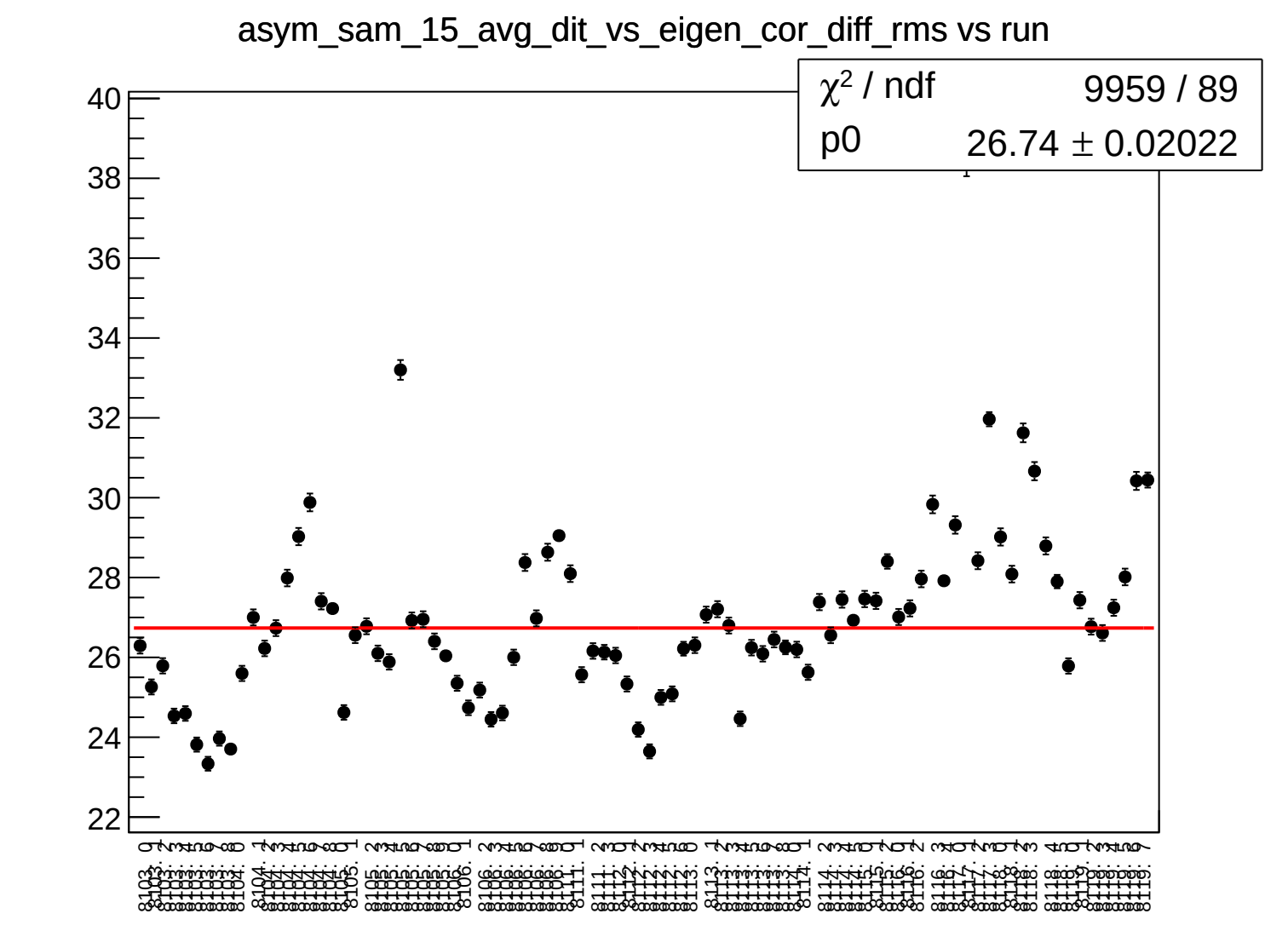

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.383e+05 / 89
p0 1.286e−11 ± 1.341e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

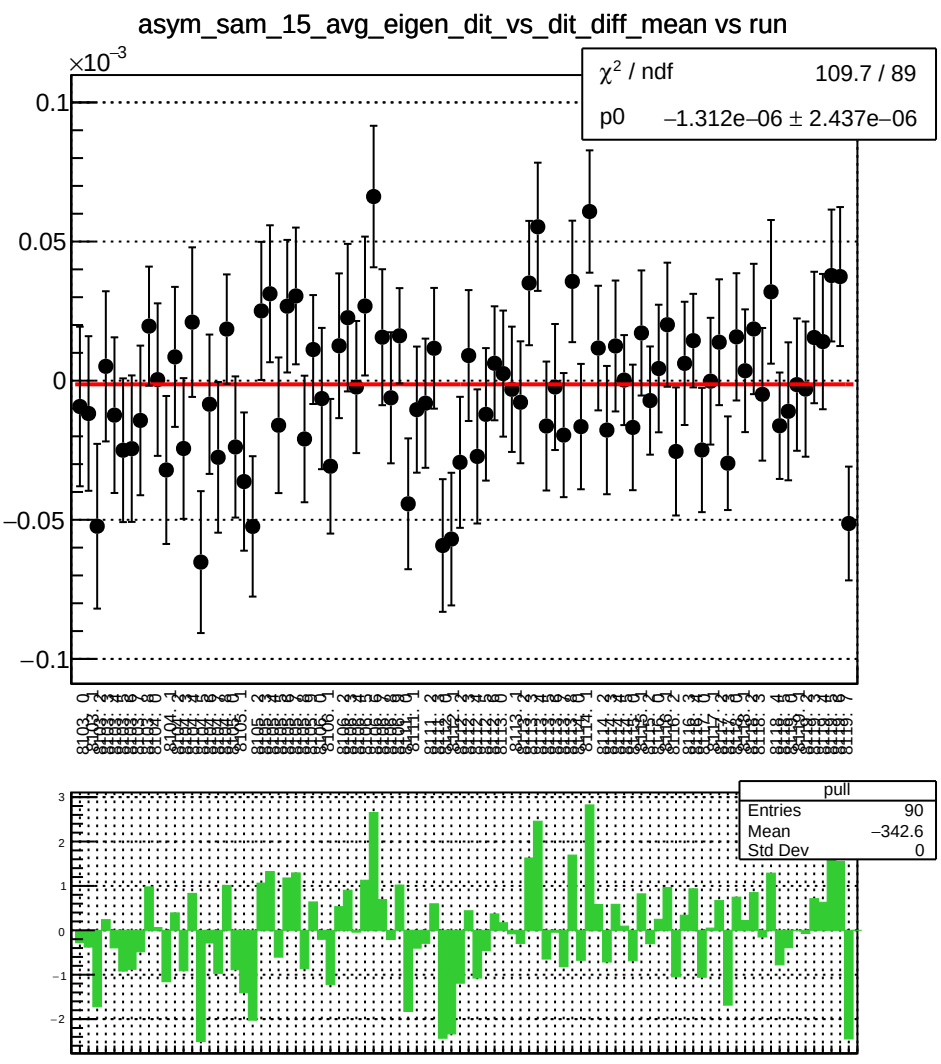

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.59 / 89
p0 −0.01095 ± 0.02859
pull
Entries 90
Mean 1026
Std Dev 0

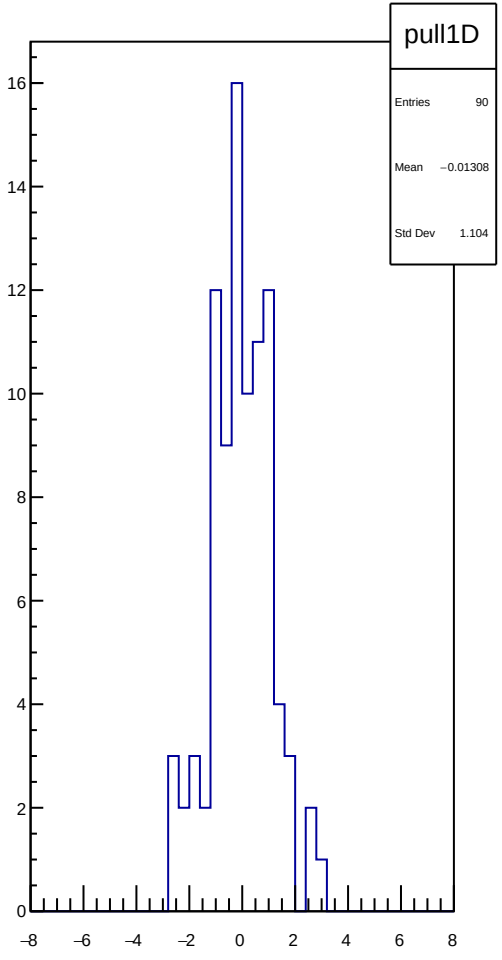

pull1D
Entries 90
Mean −0.002432
Std Dev 0.9404

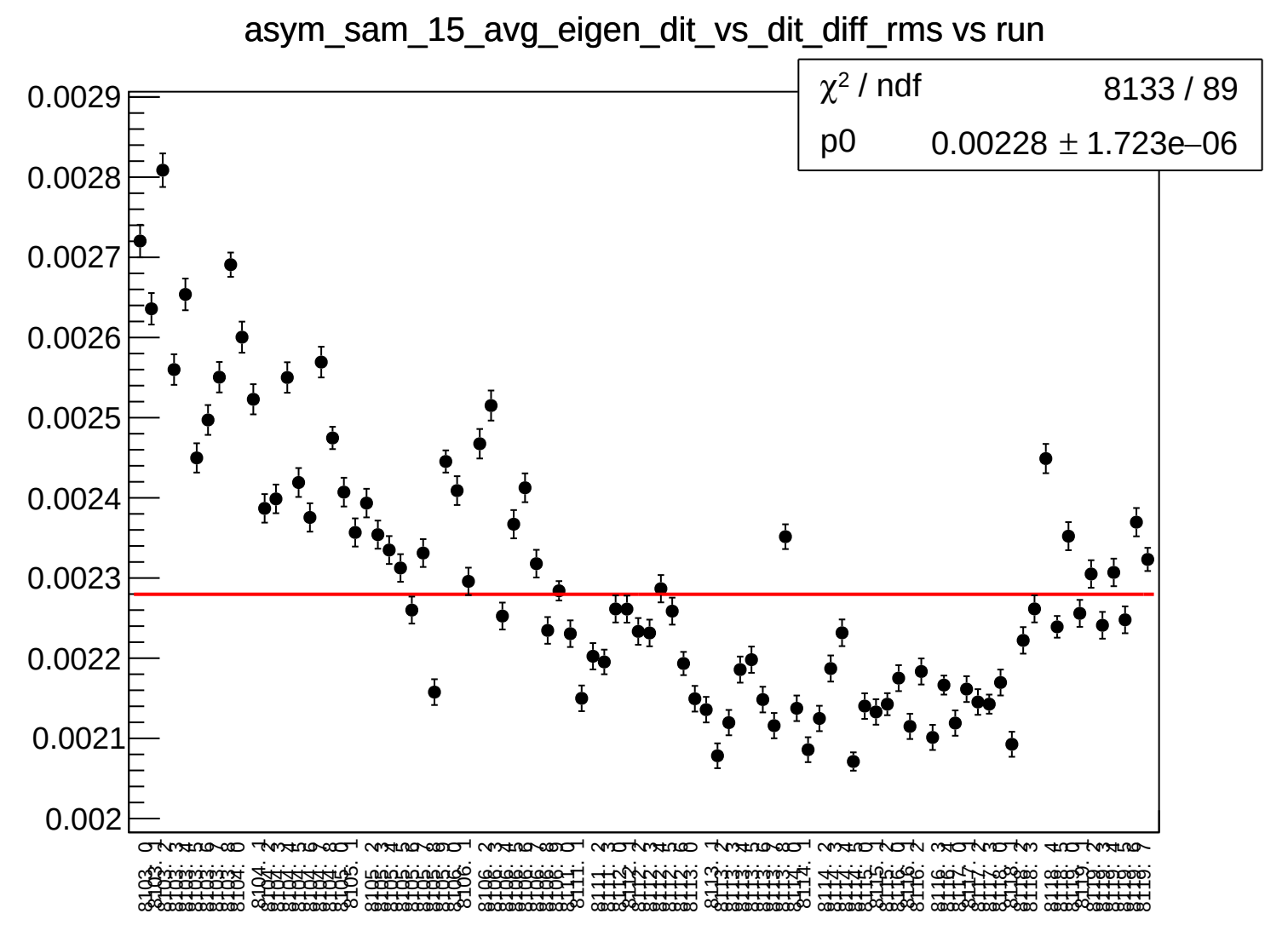

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9959 / 89
p0 26.74 ± 0.02022
40
38
36
34
32
30
28
26
24
22

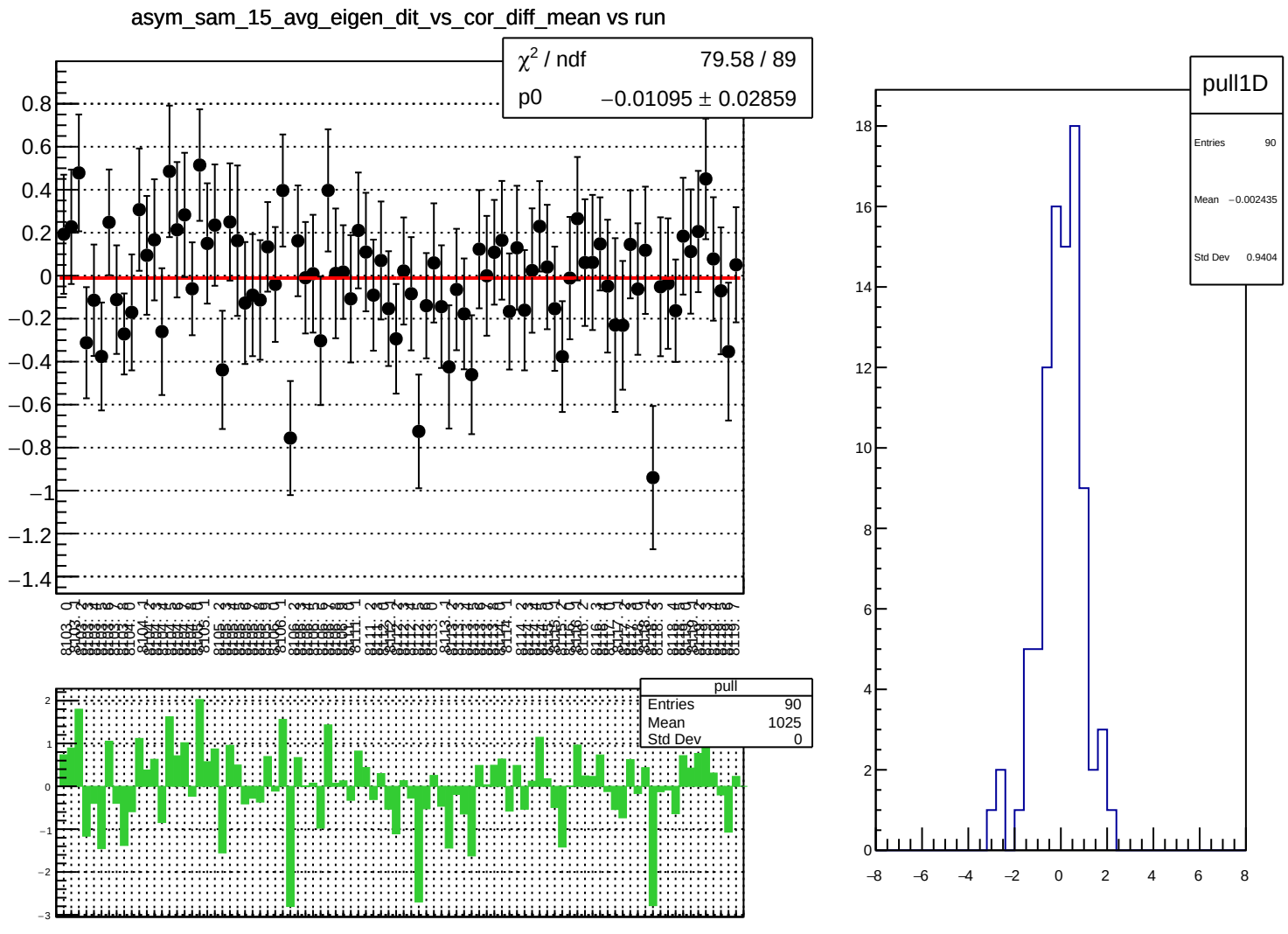

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.59 / 89
p0 −0.01095 ± 0.02859
pull
Entries 90
Mean 1026
Std Dev 0
pull1D
Entries 90
Mean −0.002432
Std Dev 0.9404

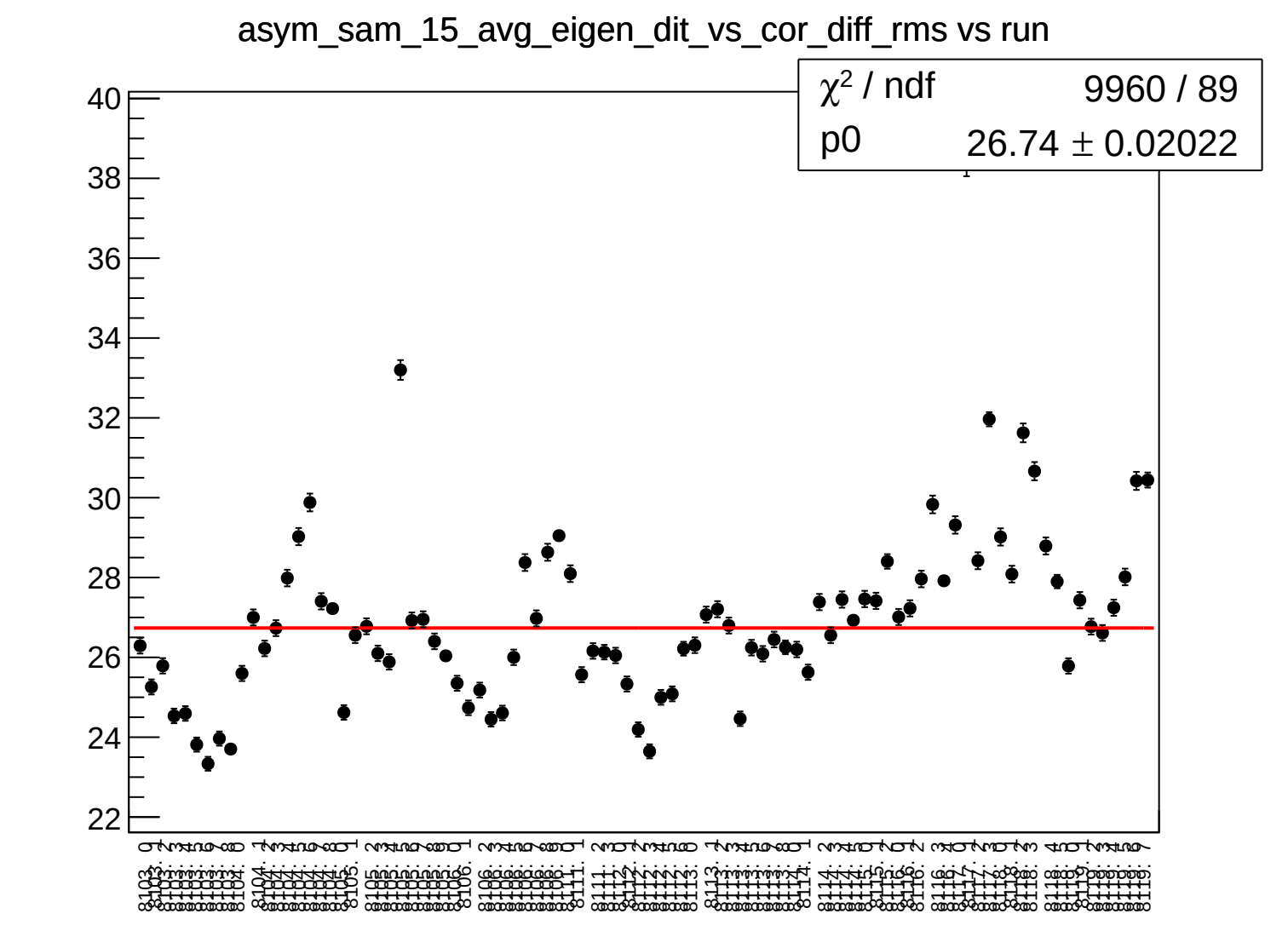

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9959 / 89
p0 26.74 ± 0.02022
40
38
36
34
32
30
28
26
24
22

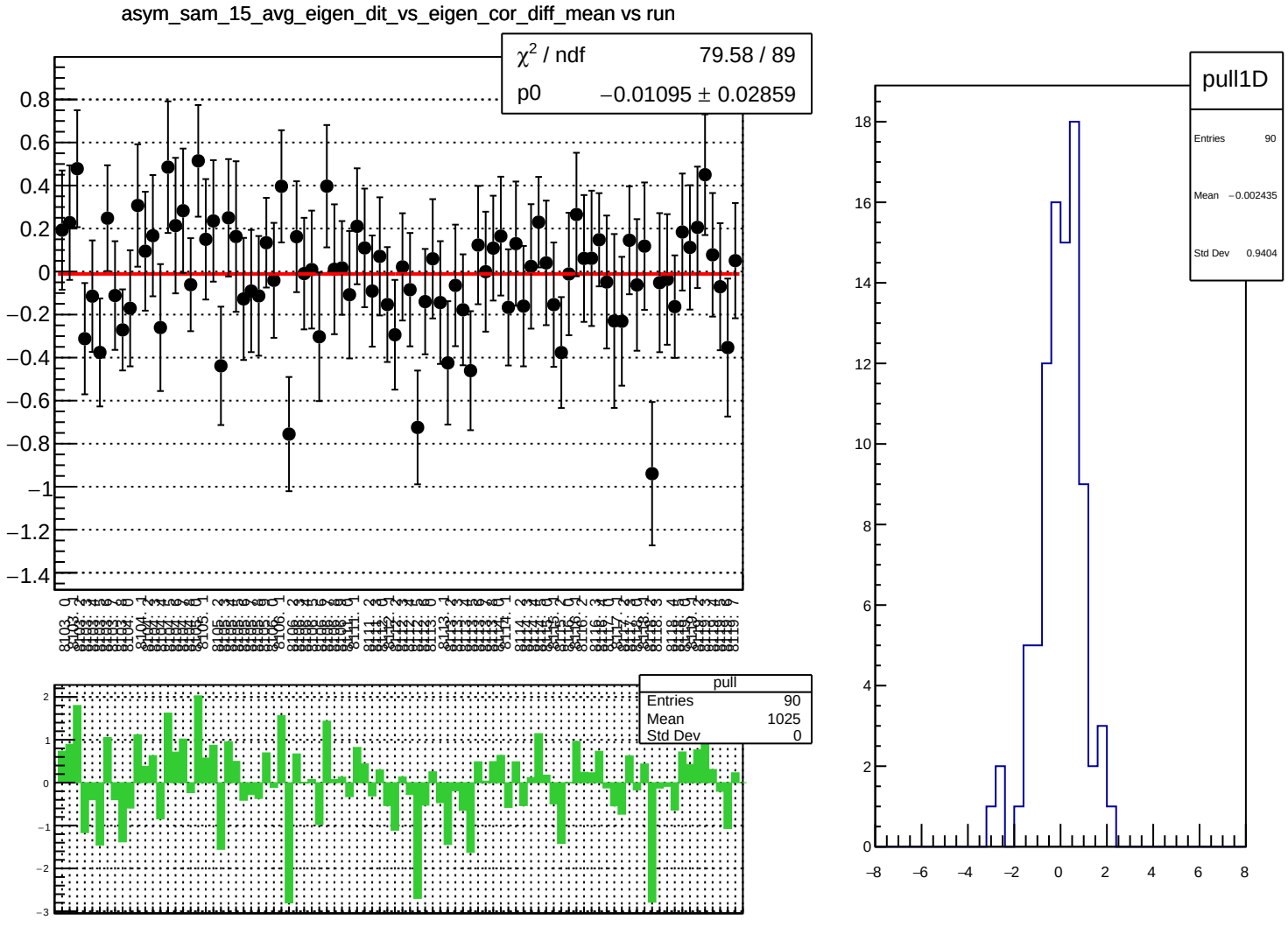

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 109.7 / 89
p0 −1.312e−06 ± 2.437e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −342.6
Std Dev 0
3
2
1
0
−1
−2

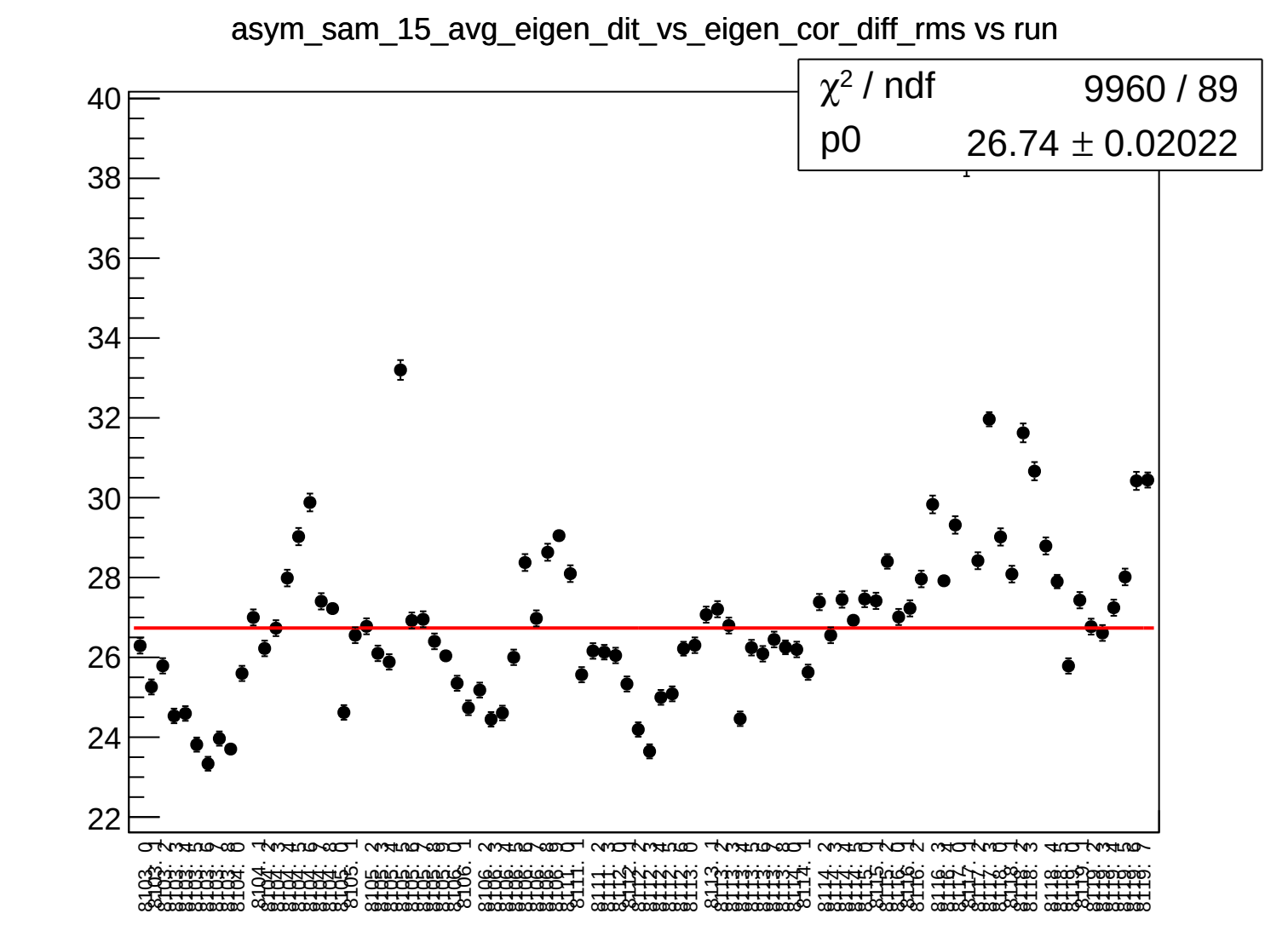

pull1D
Entries 90
Mean −0.01308
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

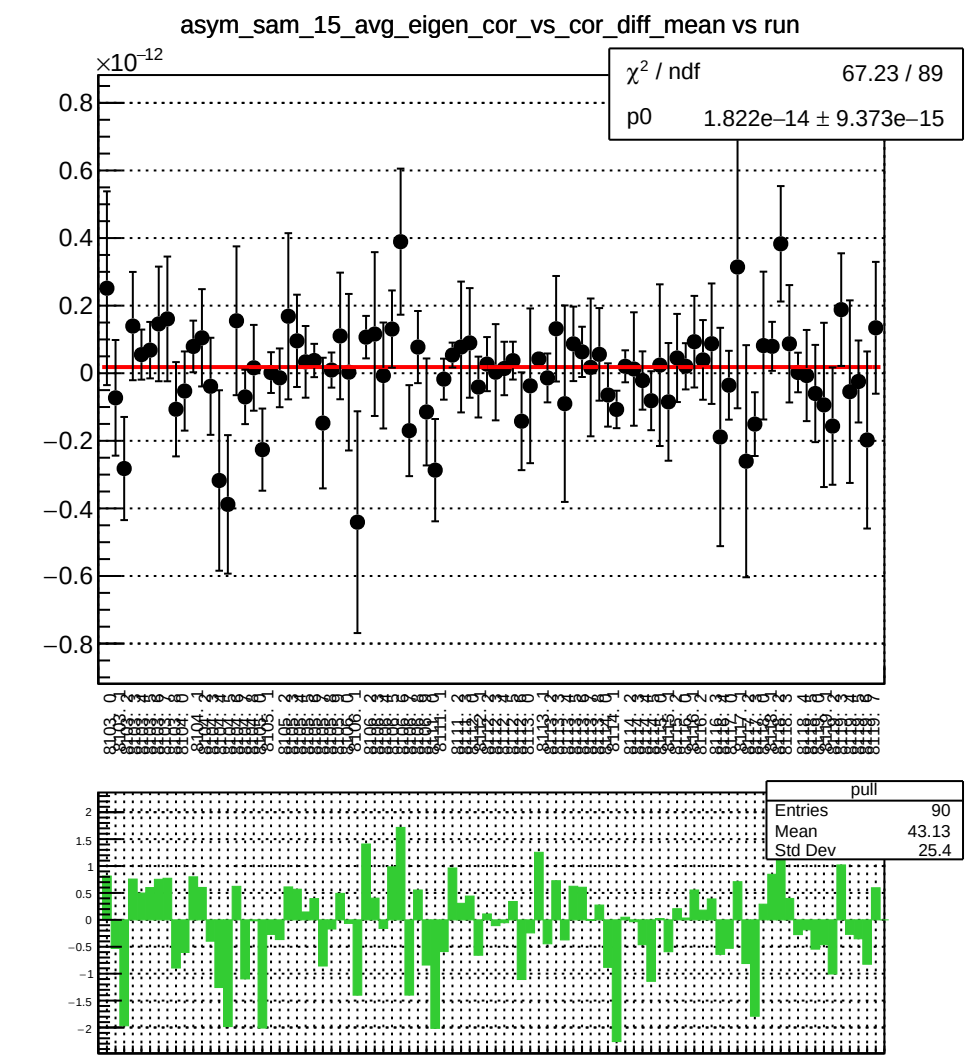

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8133 / 89
p0 0.00228 ± 1.723e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

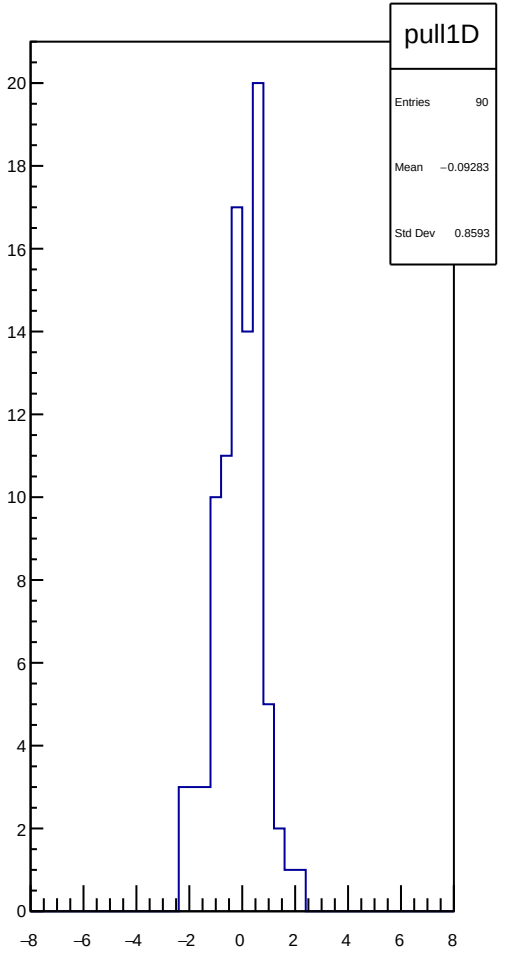

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.58 / 89
p0 −0.01095 ± 0.02859
pull
Entries 90
Mean 1025
Std Dev 0
pull1D
Entries 90
Mean −0.002435
Std Dev 0.9404

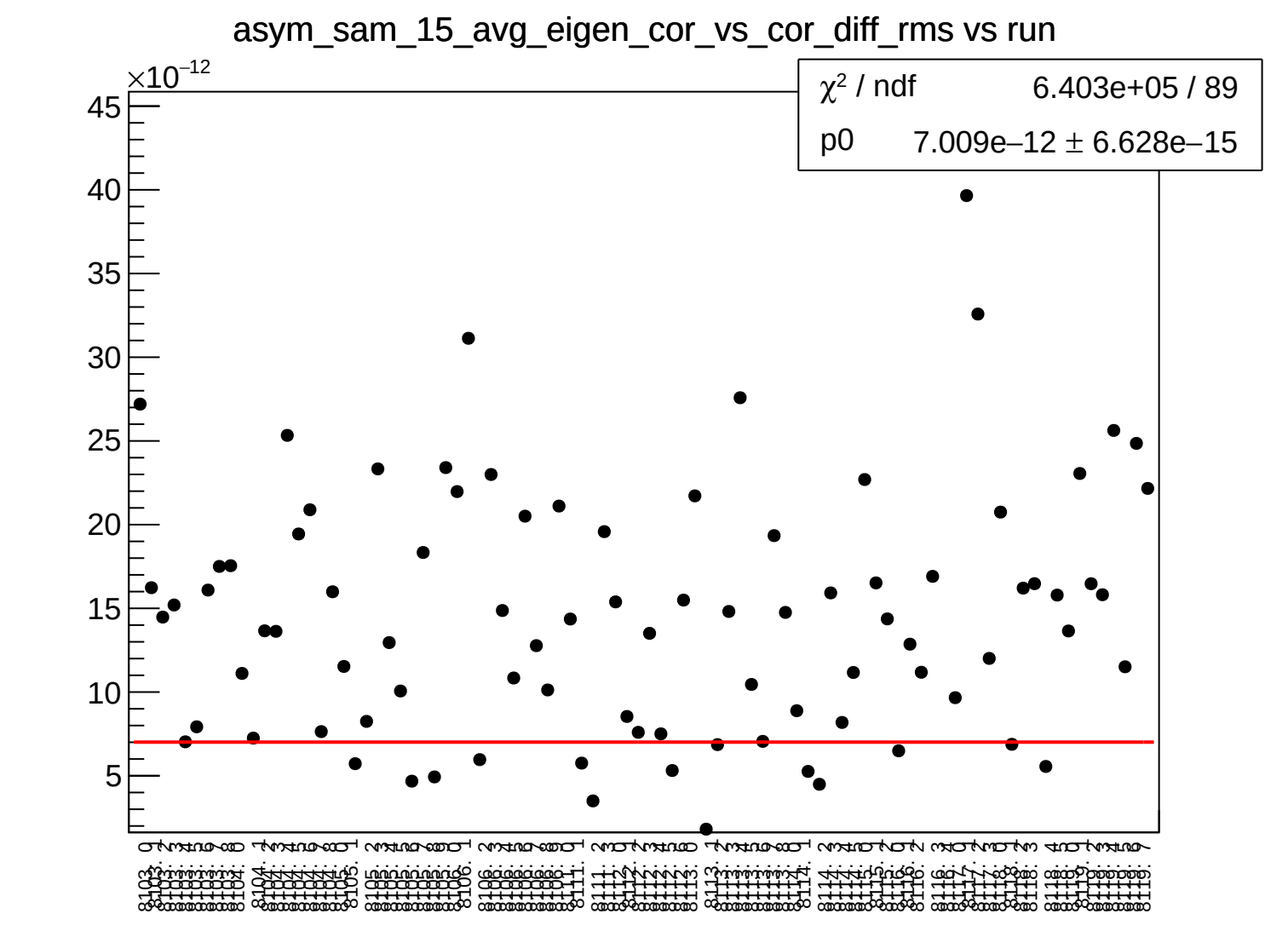

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9960 / 89
p0 26.74 ± 0.02022
40
38
36
34
32
30
28
26
24
22

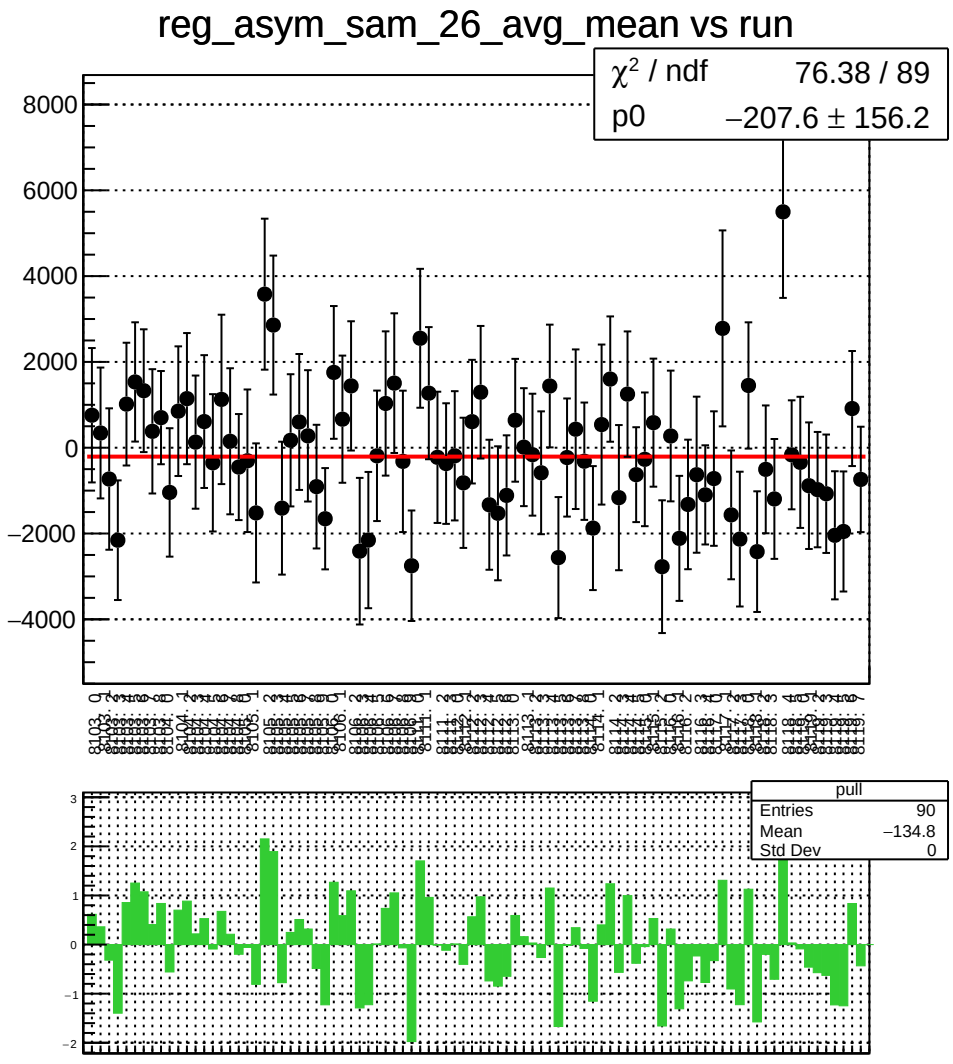

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.58 / 89
p0 −0.01095 ± 0.02859
pull
Entries 90
Mean 1025
Std Dev 0
pull1D
Entries 90
Mean −0.002435
Std Dev 0.9404

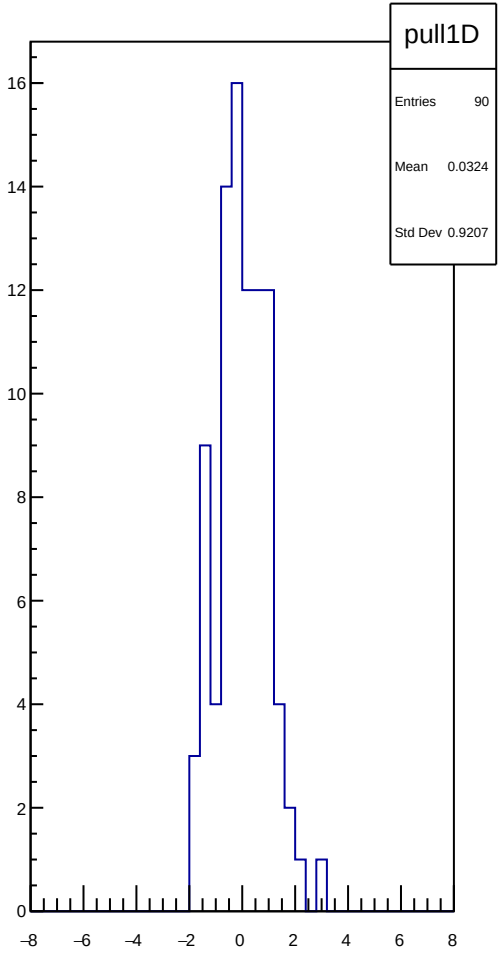

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9960 / 89
p0 26.74 ± 0.02022
40
38
36
34
32
30
28
26
24
22

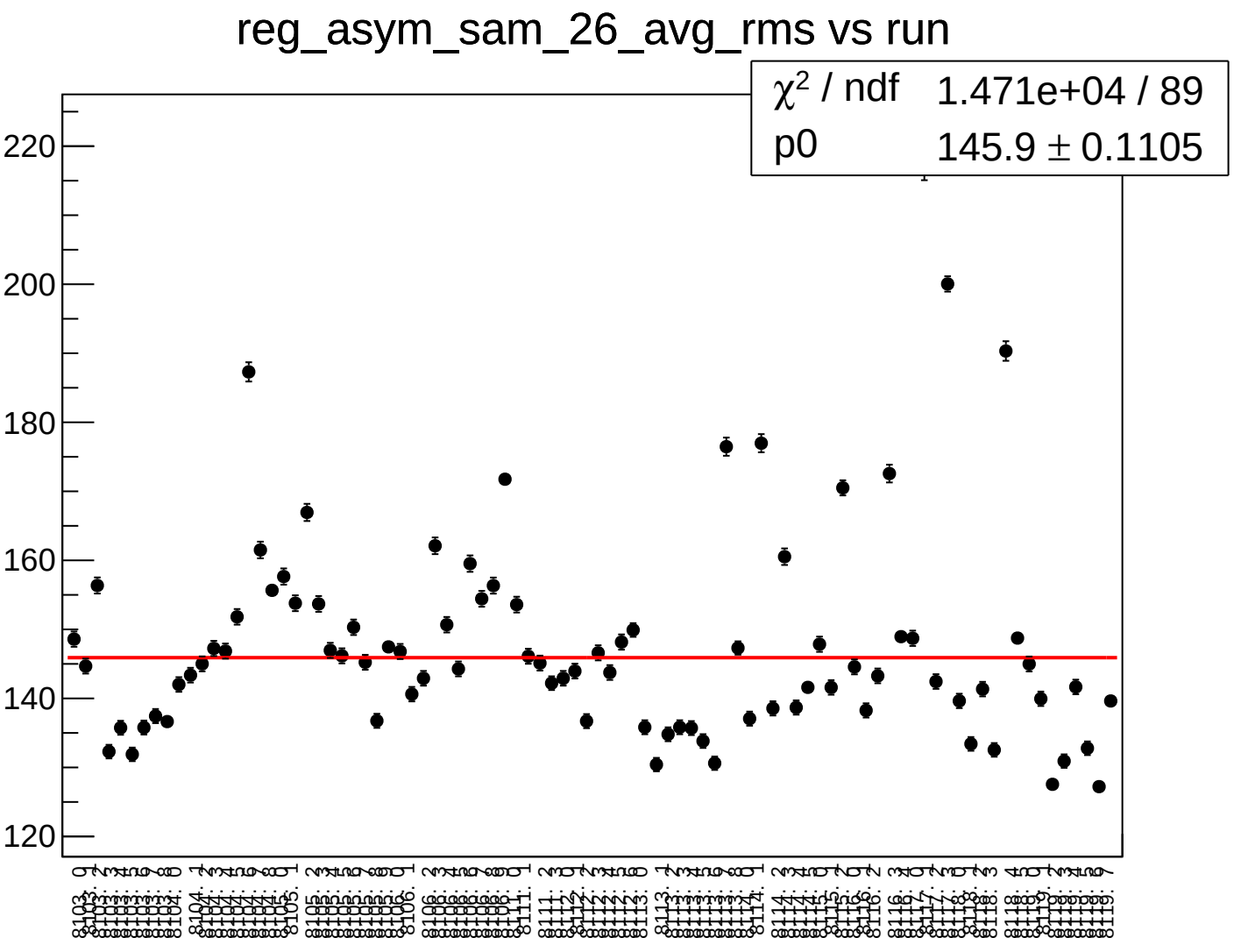

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 67.23 / 89
p0 1.822e−14 ± 9.373e−15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 90
Mean 43.13
Std Dev 25.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

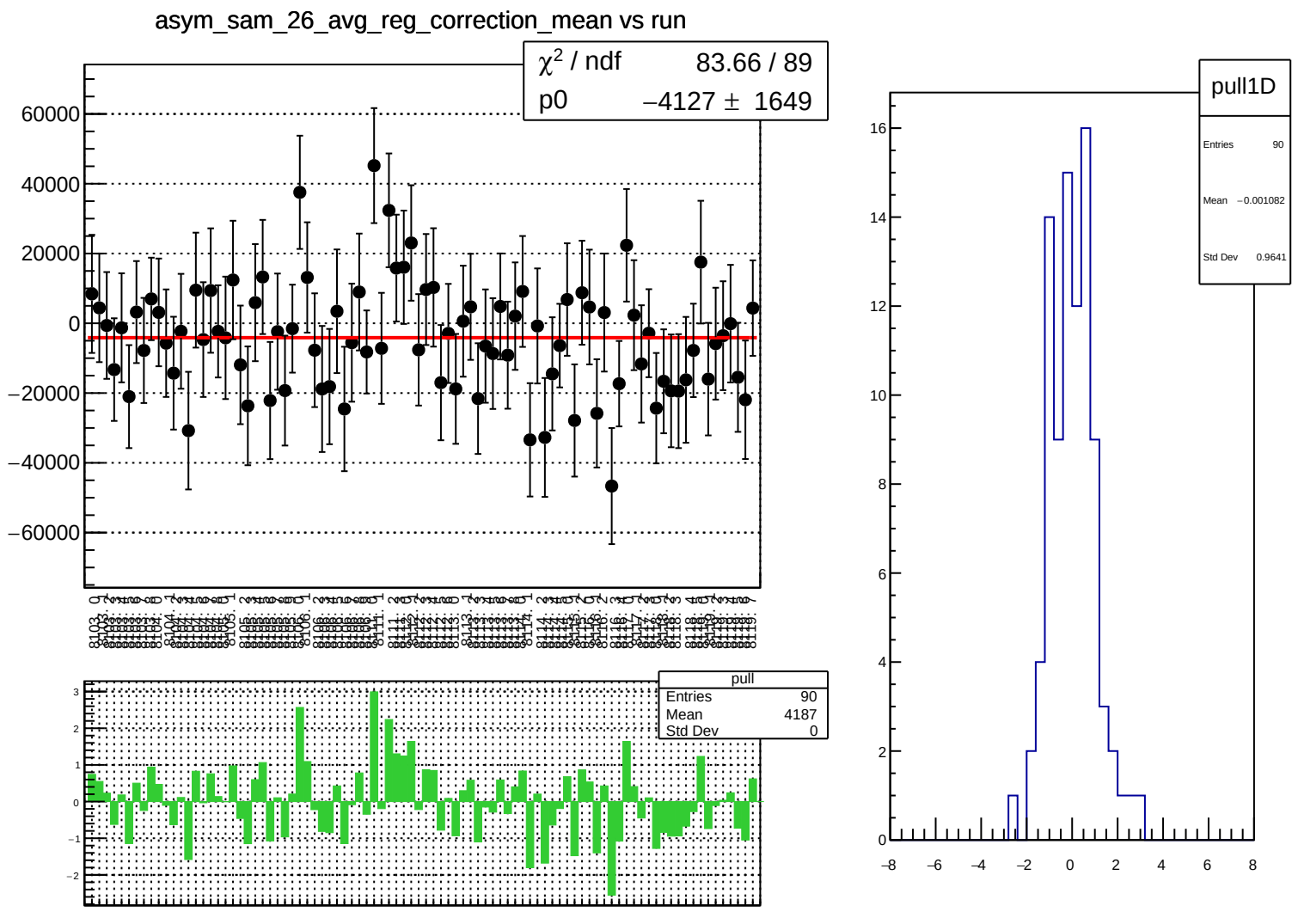

pull1D
Entries 90
Mean −0.09283
Std Dev 0.8593
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

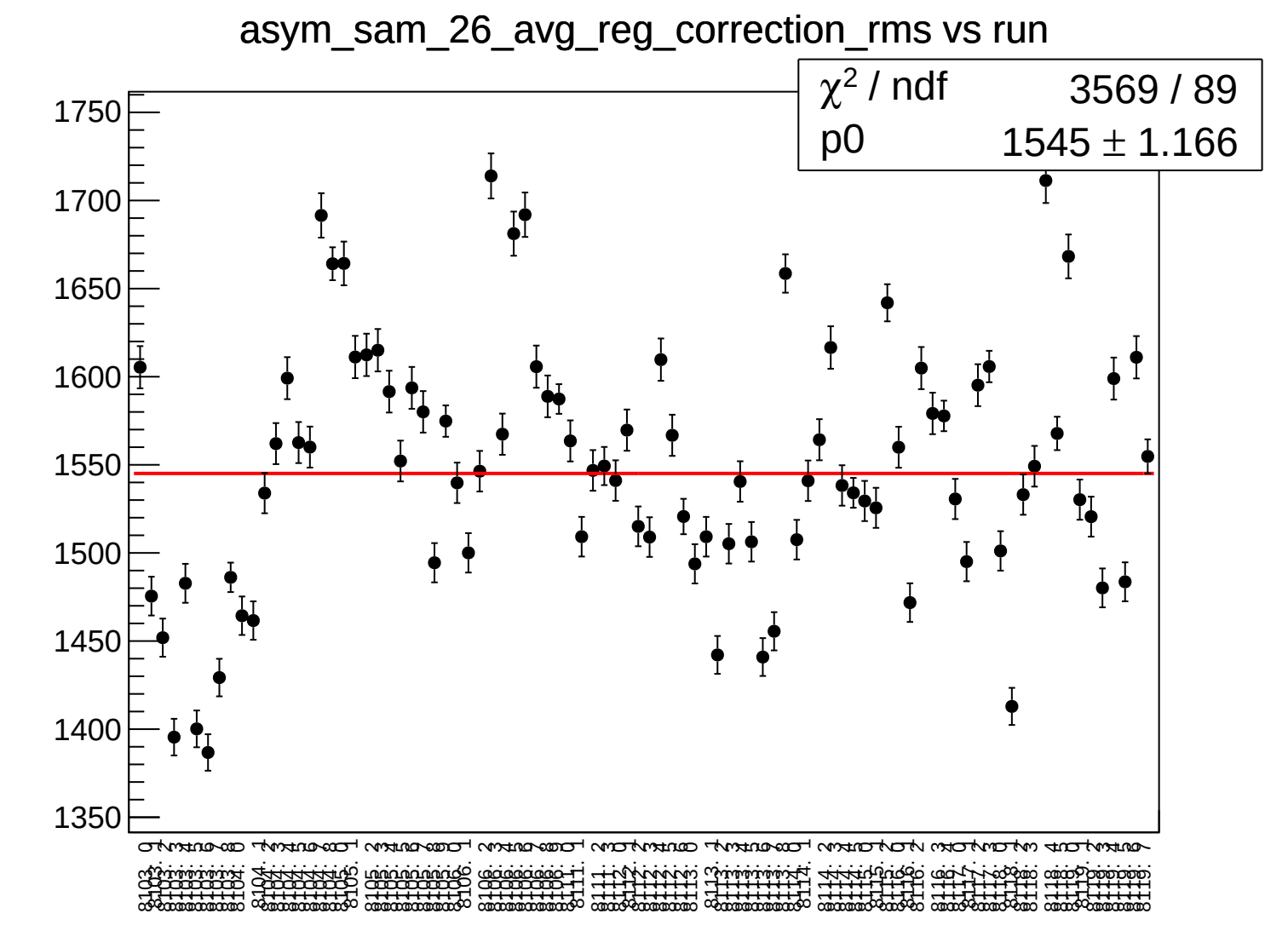

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.403e+05 / 89
p0 7.009e−12 ± 6.628e−15
45
40
35
30
25
20
15
10
5

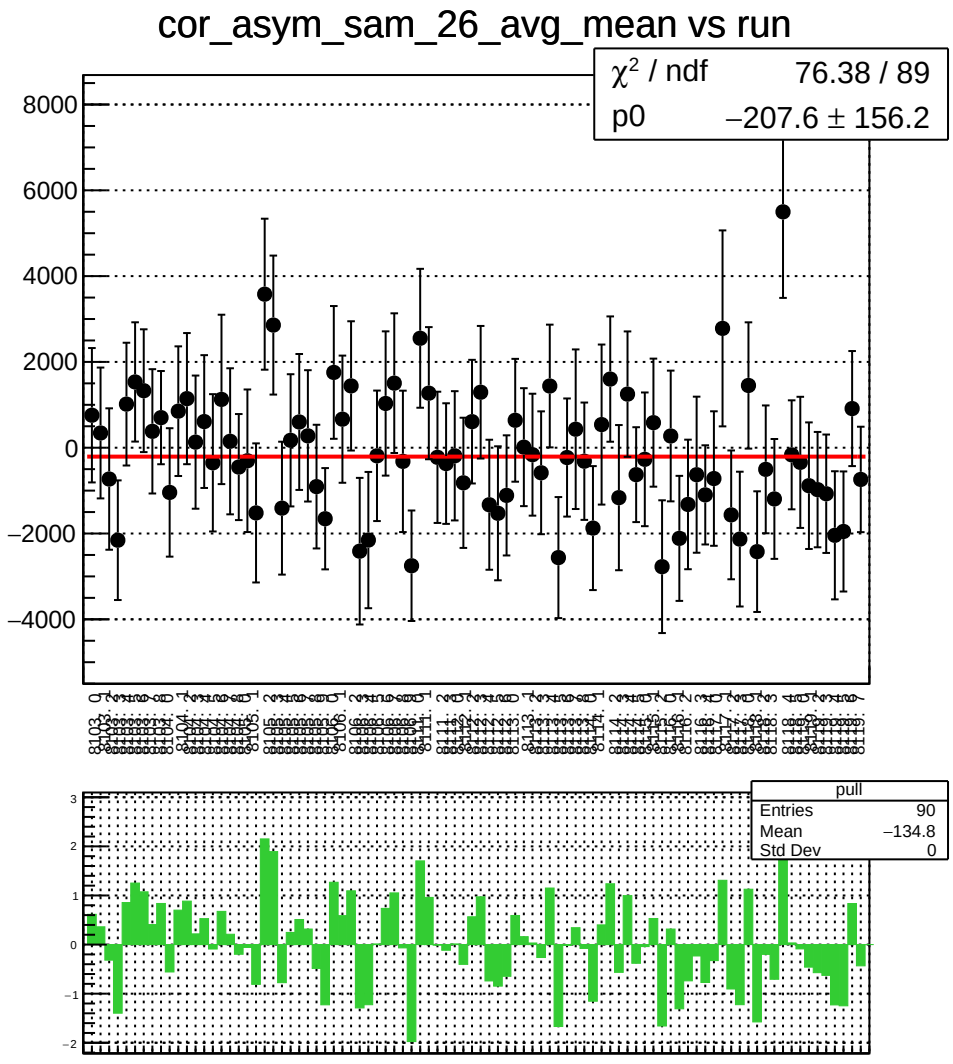

reg_asym_sam_26_avg_mean vs run
χ² / ndf 76.38 / 89
p0 −207.6 ± 156.2
pull
Entries 90
Mean −134.8
Std Dev 0

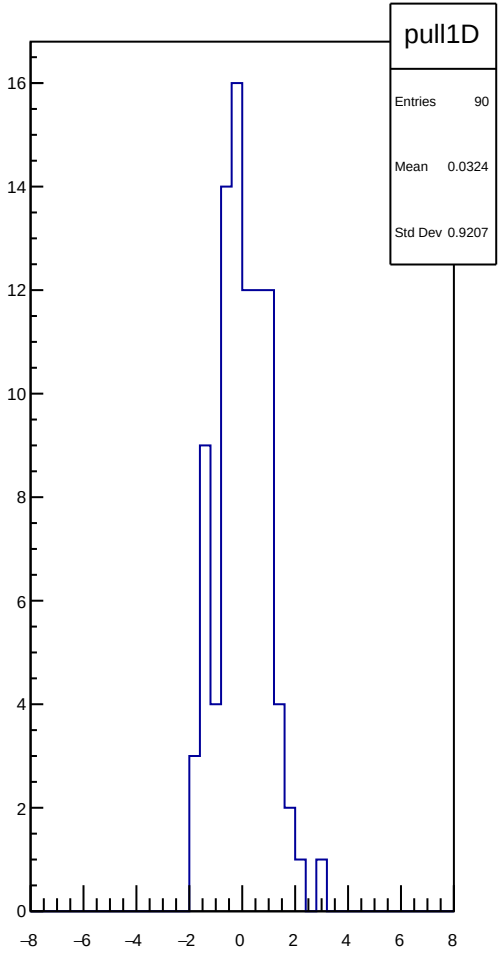

pull1D
Entries 90
Mean 0.0324
Std Dev 0.9207

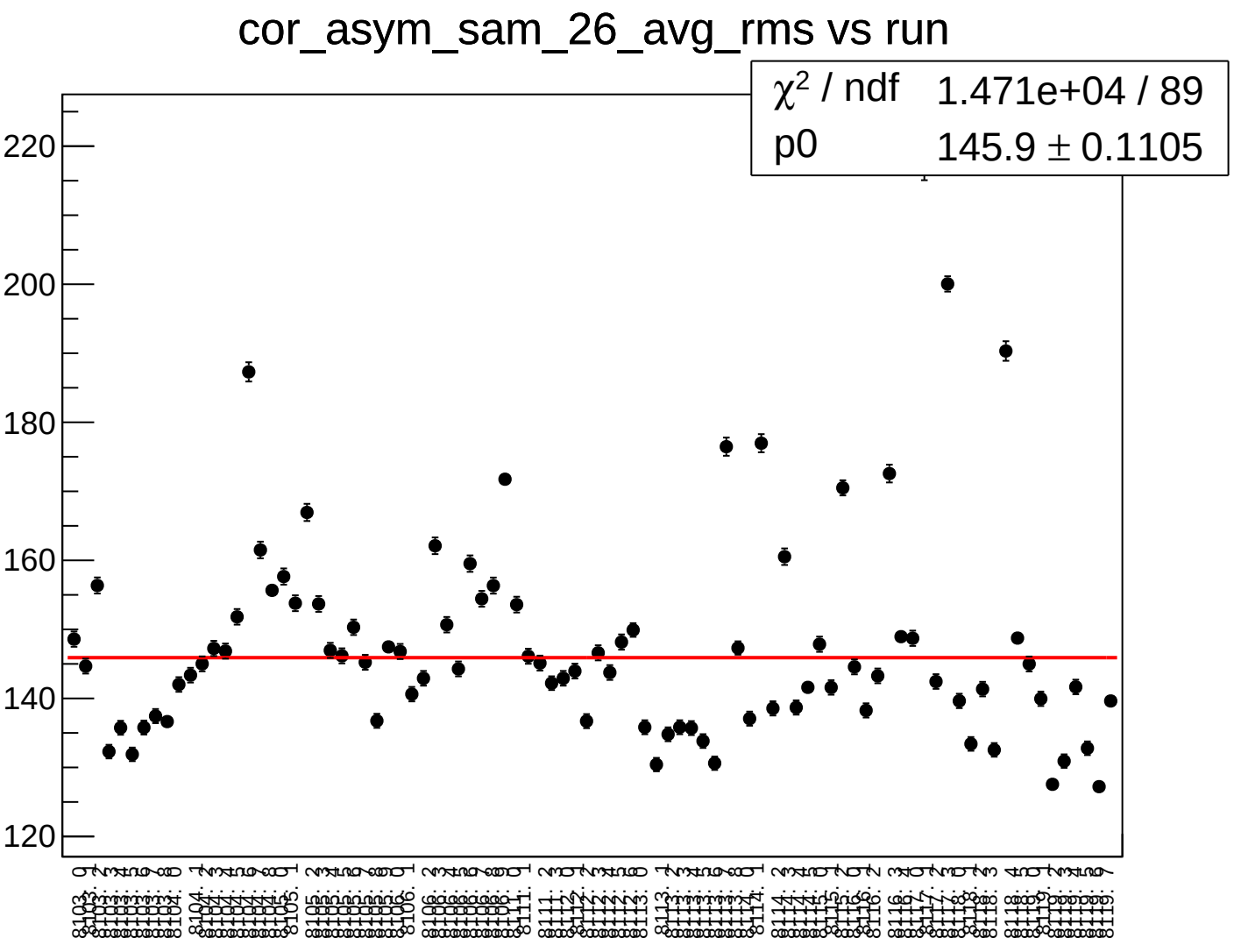

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.471e+04 / 89
p0 145.9 ± 0.1105
220
200
180
160
140
120

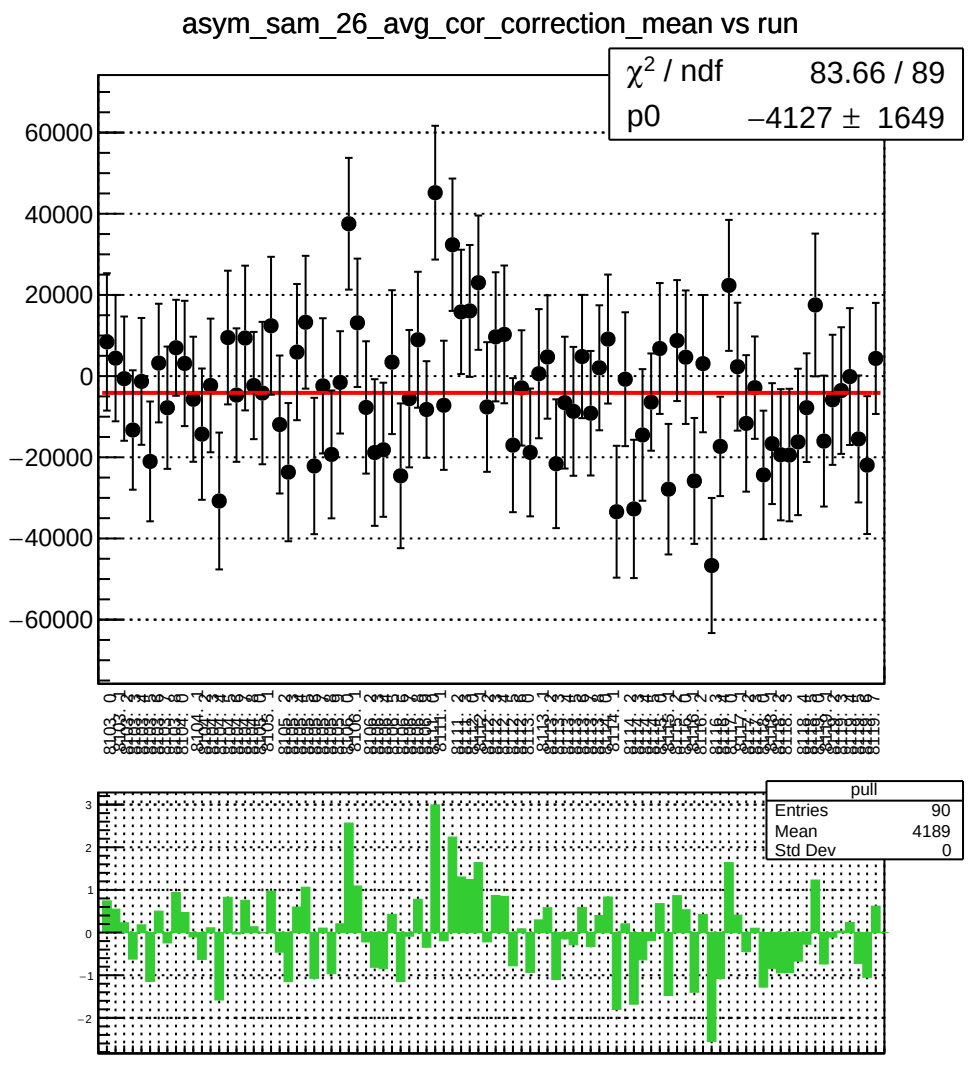

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 83.66 / 89
p0 −4127 ± 1649
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 4187
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.001082
Std Dev 0.9641
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

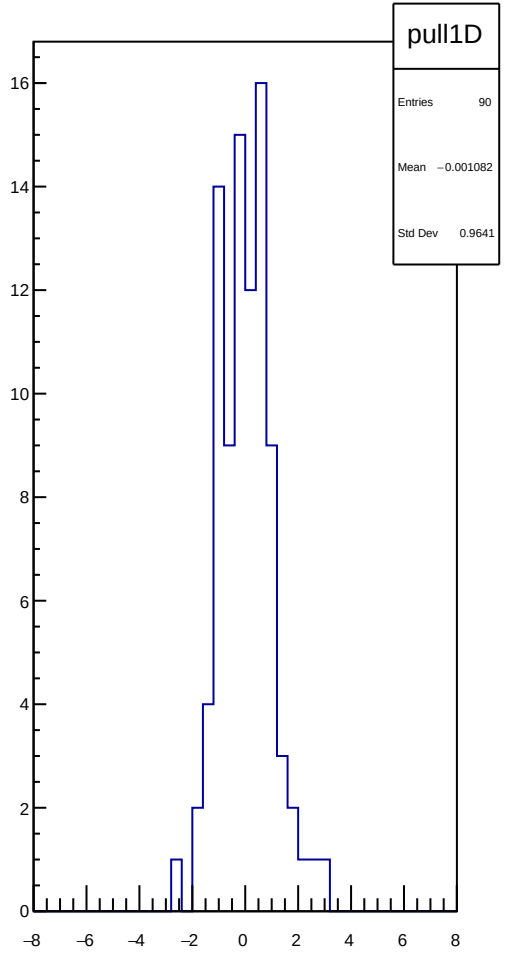

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3569 / 89
p0 1545 ± 1.166
1750
1700
1650
1600
1550
1500
1450
1400
1350

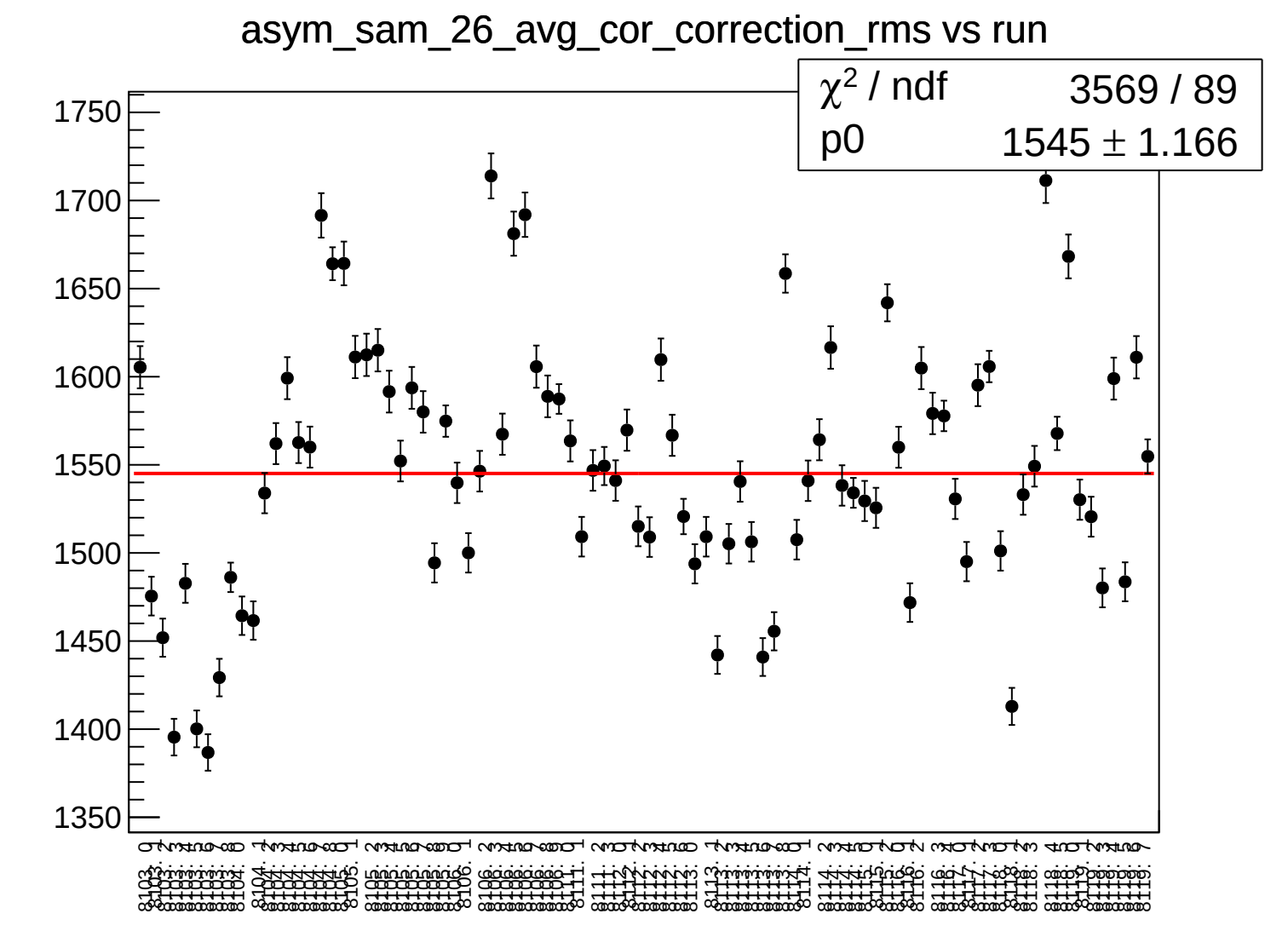

cor_asym_sam_26_avg_mean vs run
χ² / ndf 76.38 / 89
p0 −207.6 ± 156.2
pull
Entries 90
Mean −134.8
Std Dev 0

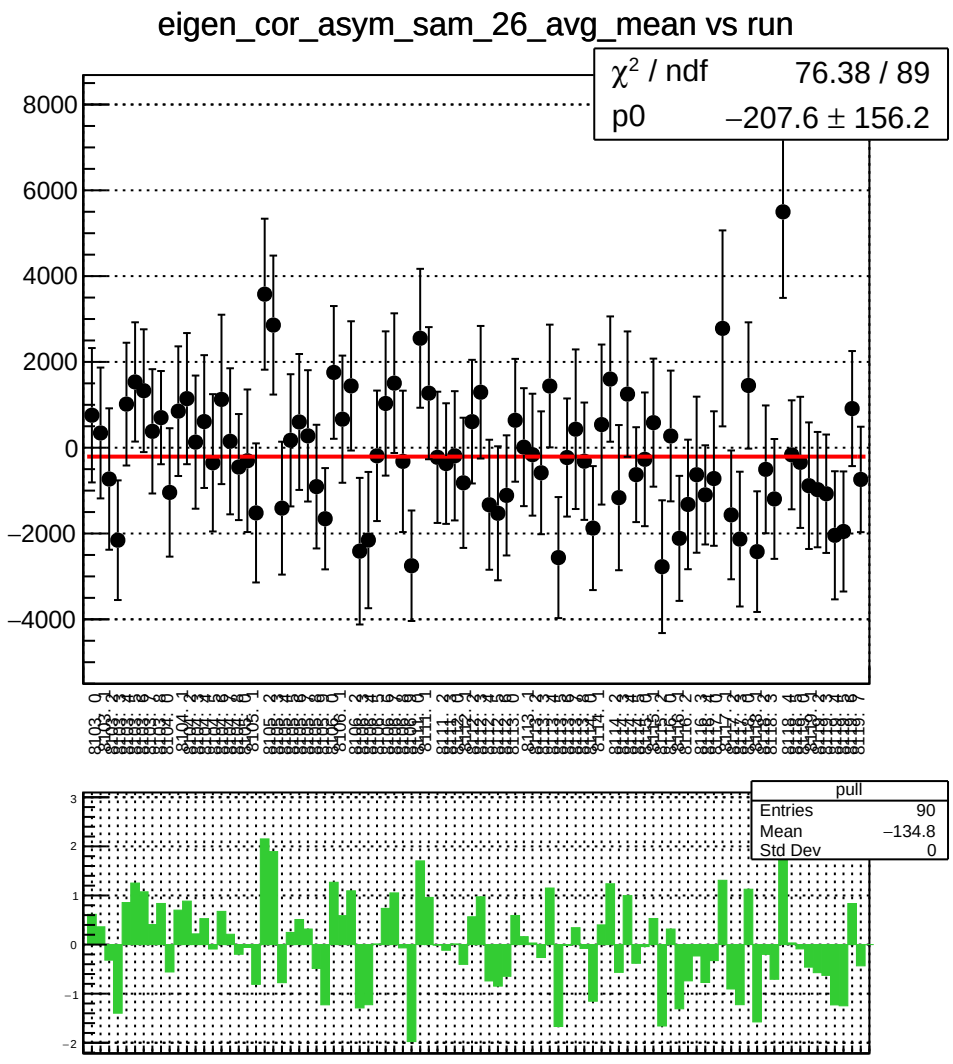

pull1D
Entries 90
Mean 0.0324
Std Dev 0.9207

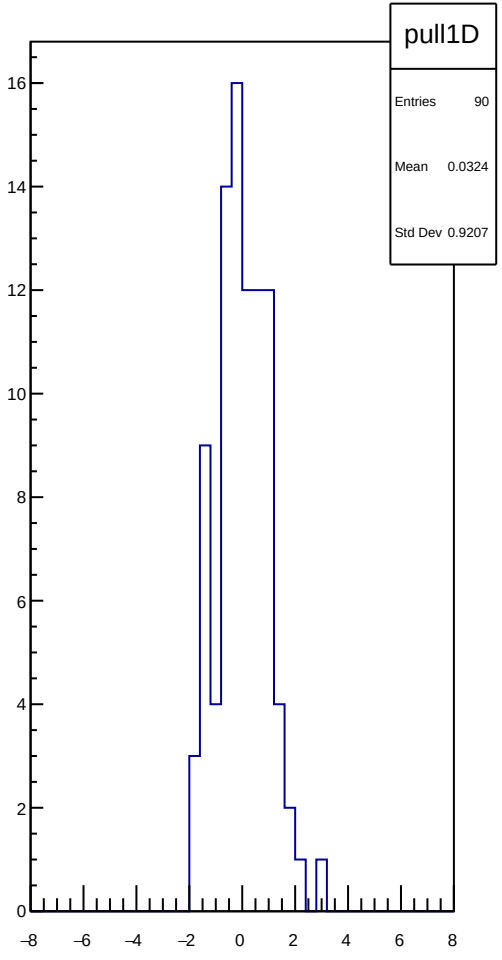

cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.471e+04 / 89
p0 145.9 ± 0.1105
220
200
180
160
140
120

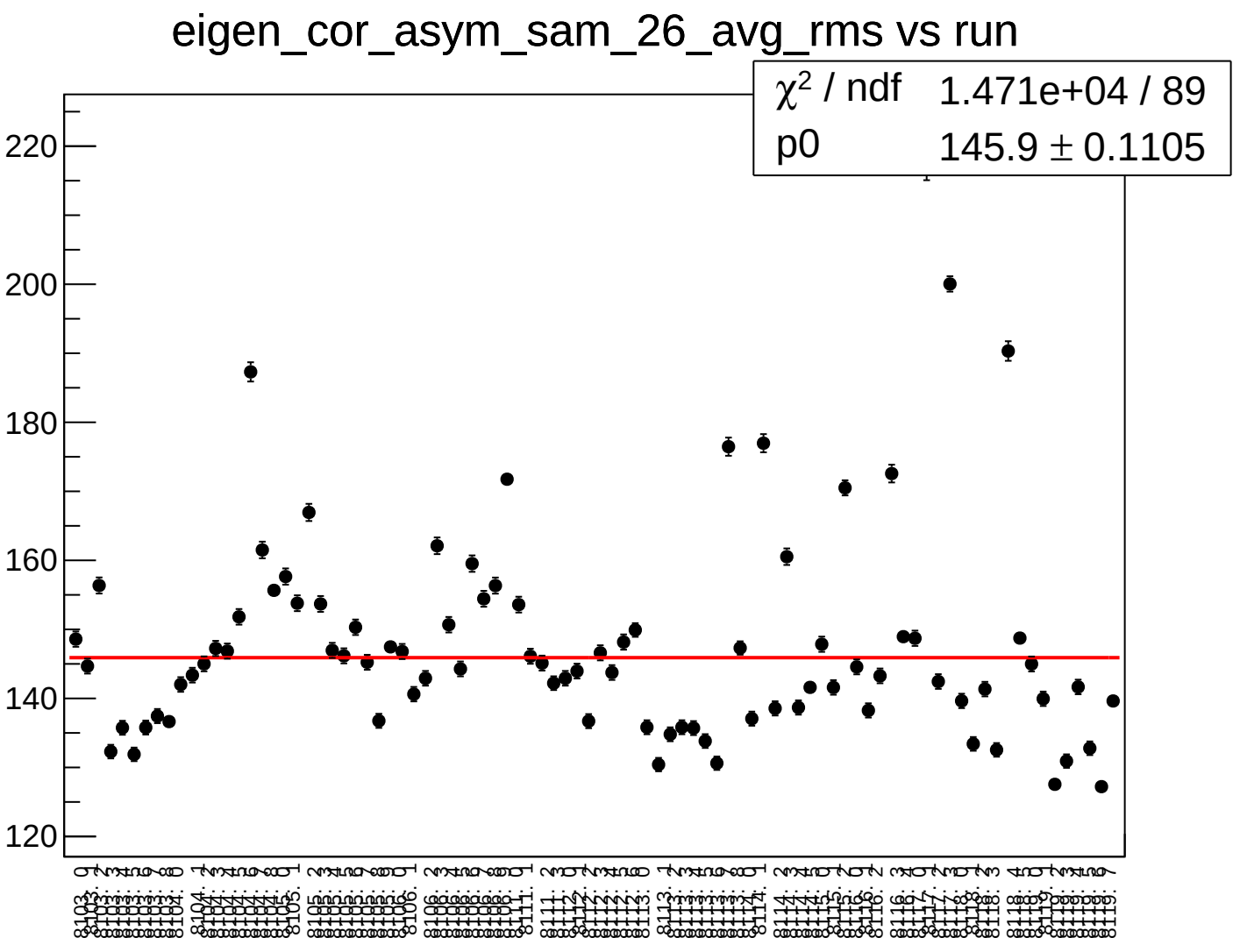

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 83.66 / 89
p0 −4127 ± 1649
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 4189
Std Dev 0
3
2
1
0
−1
−2

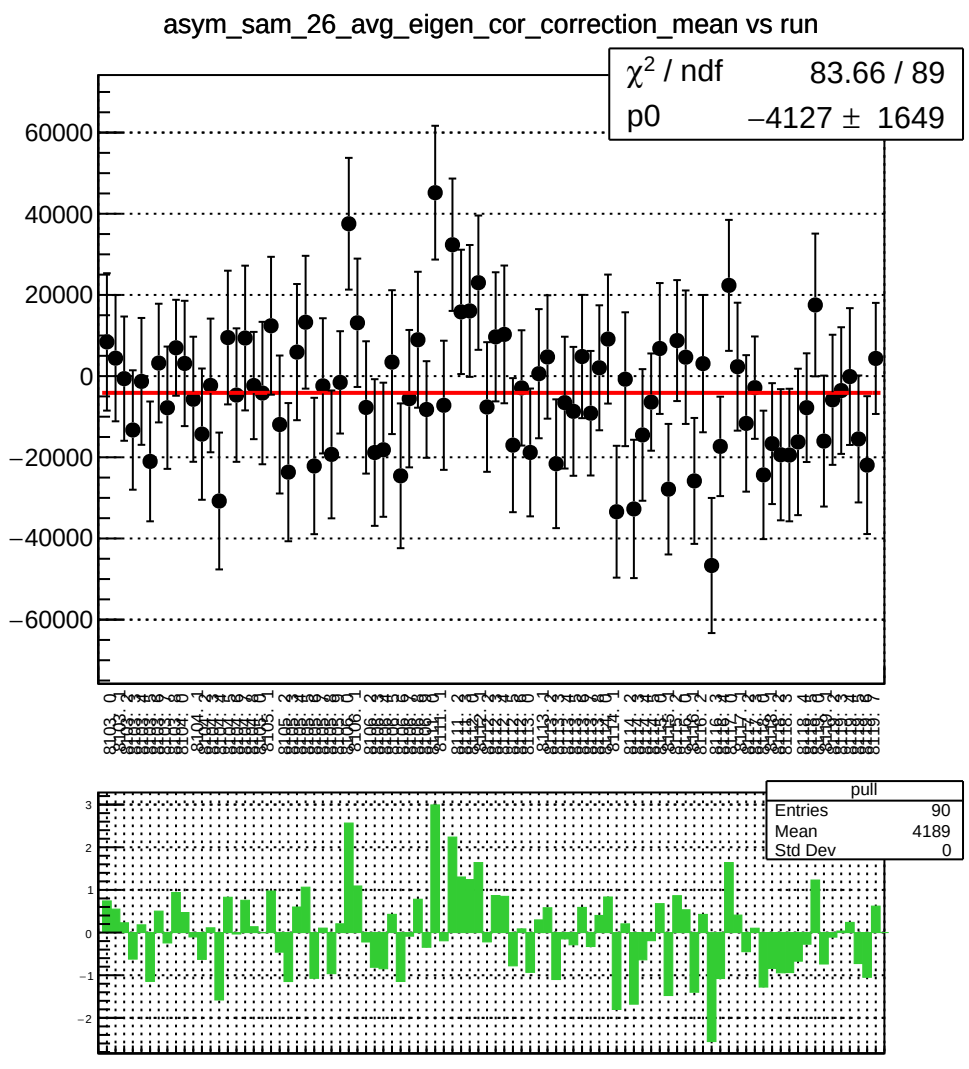

pull1D
Entries 90
Mean −0.001082
Std Dev 0.9641
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

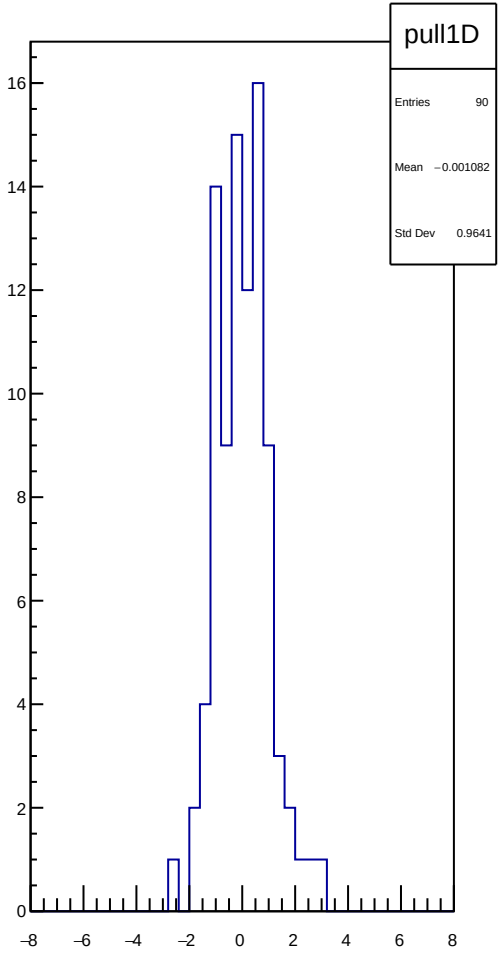

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3569 / 89
p0 1545 ± 1.166
1750
1700
1650
1600
1550
1500
1450
1400
1350

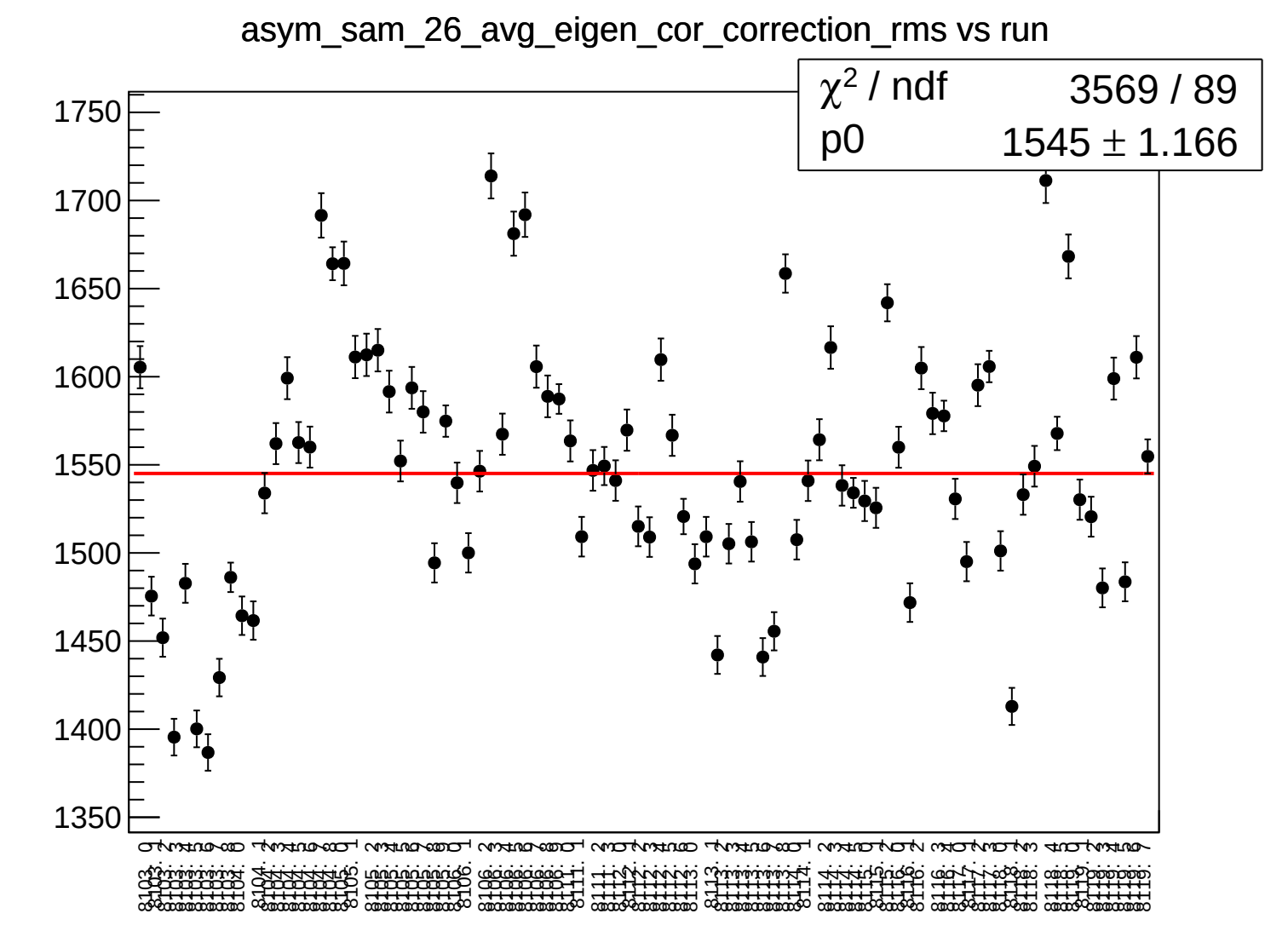

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 76.38 / 89
p0 −207.6 ± 156.2
pull
Entries 90
Mean −134.8
Std Dev 0

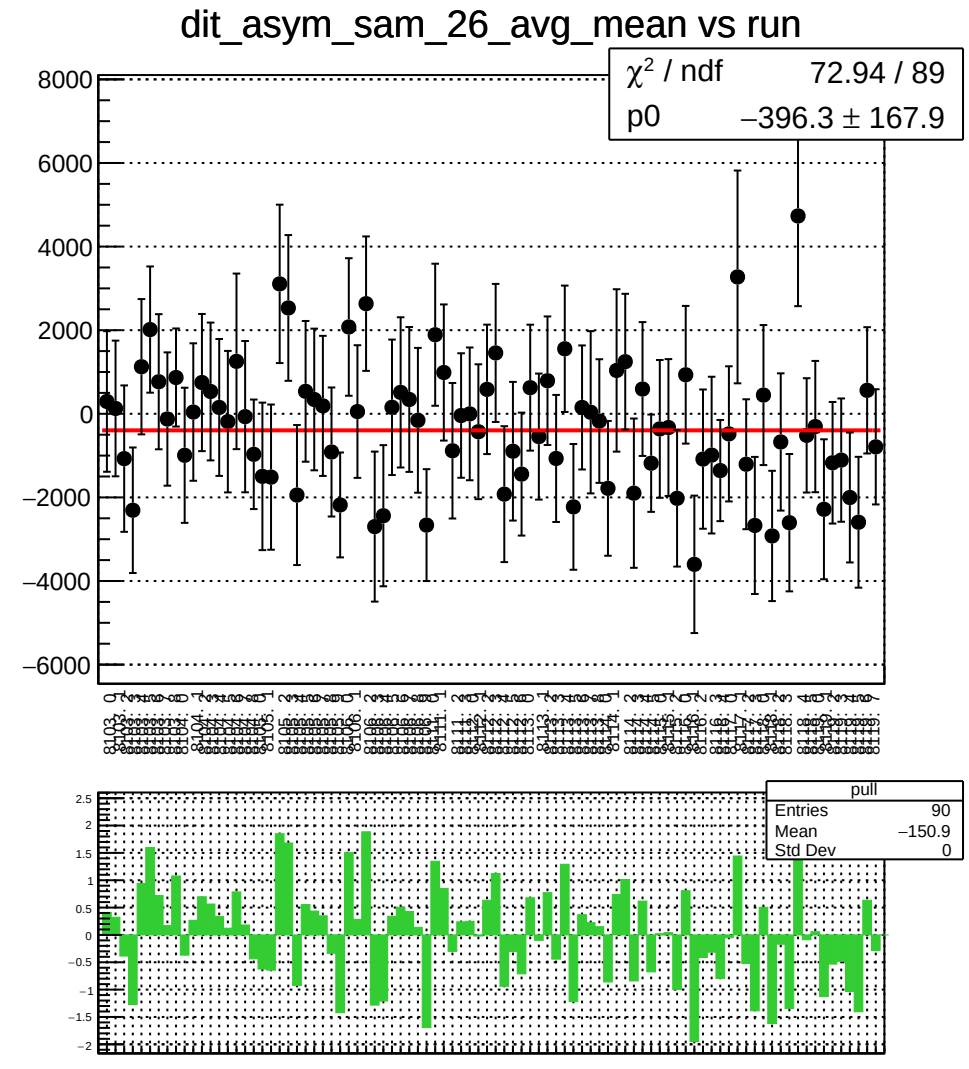

pull1D
Entries 90
Mean 0.0324
Std Dev 0.9207

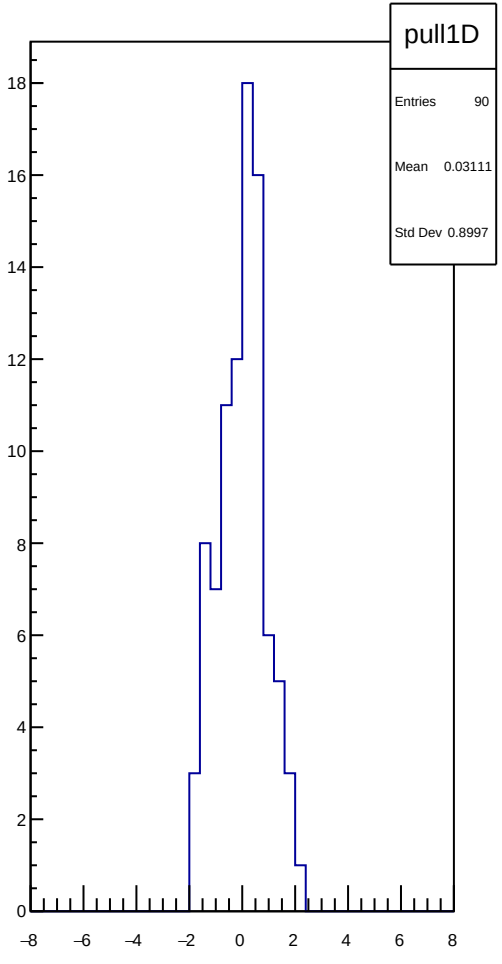

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.471e+04 / 89
p0 145.9 ± 0.1105
220
200
180
160
140
120

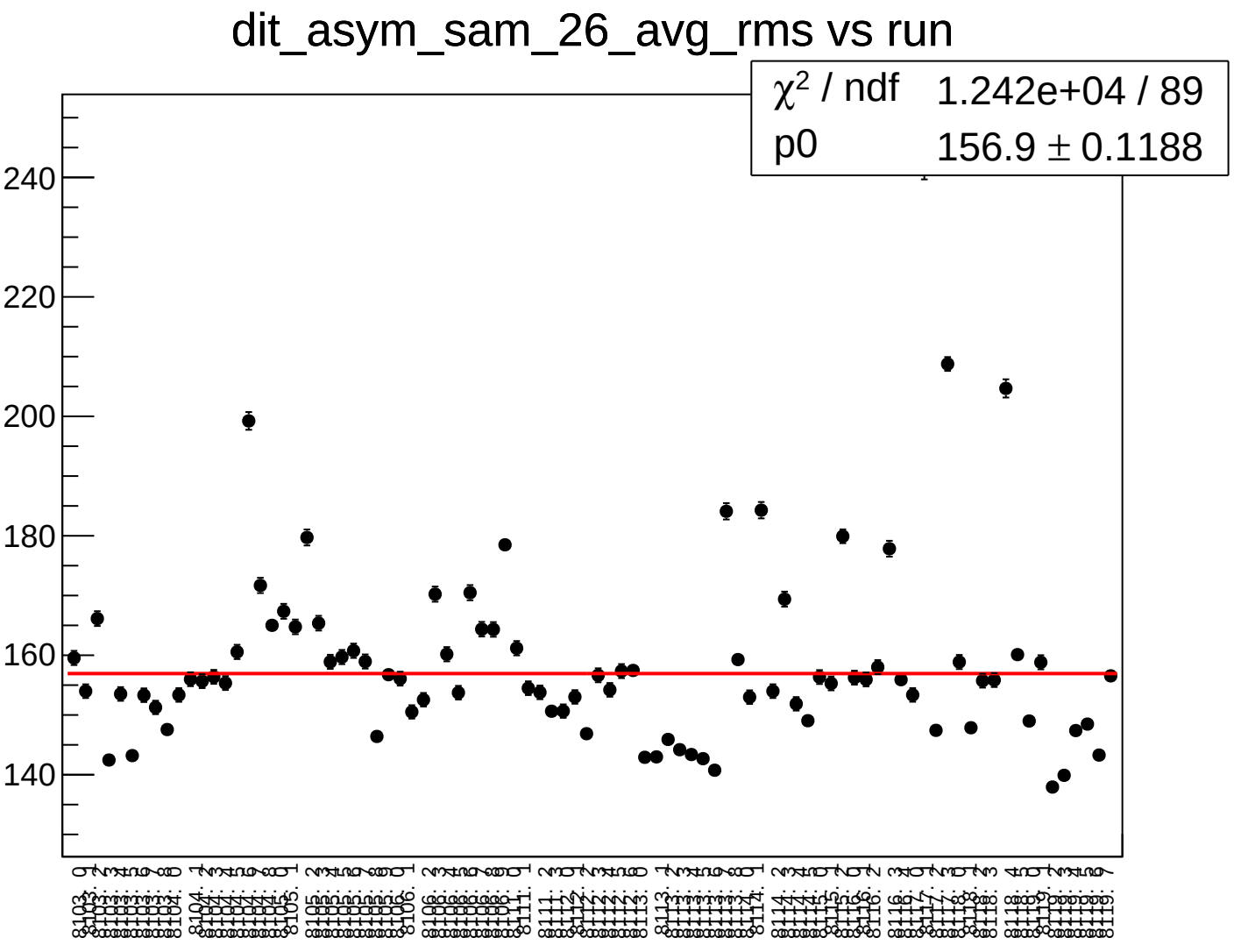

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.66 / 89
p0 −4127 ± 1649
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 4189
Std Dev 0
3
2
1
0
−1
−2

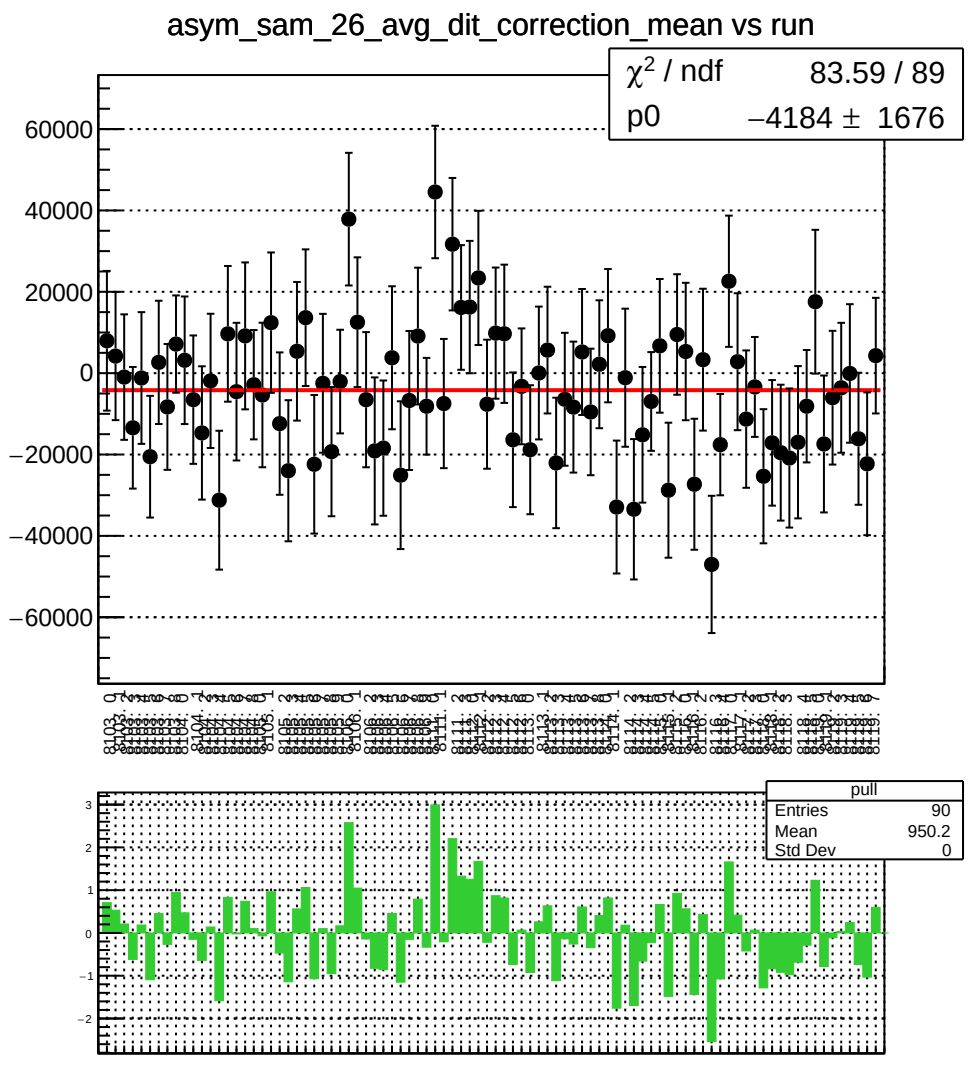

pull1D
Entries 90
Mean −0.001082
Std Dev 0.9641
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

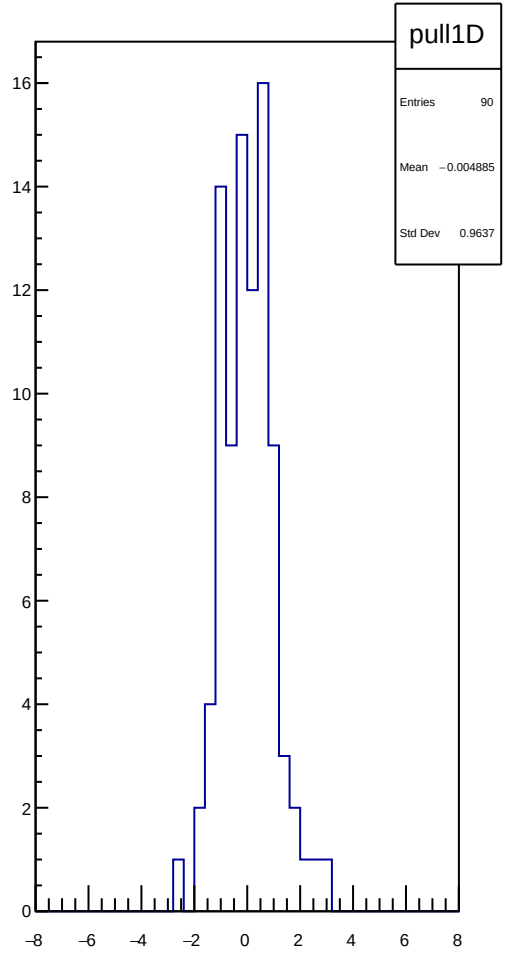

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3569 / 89
p0 1545 ± 1.166
1750
1700
1650
1600
1550
1500
1450
1400
1350

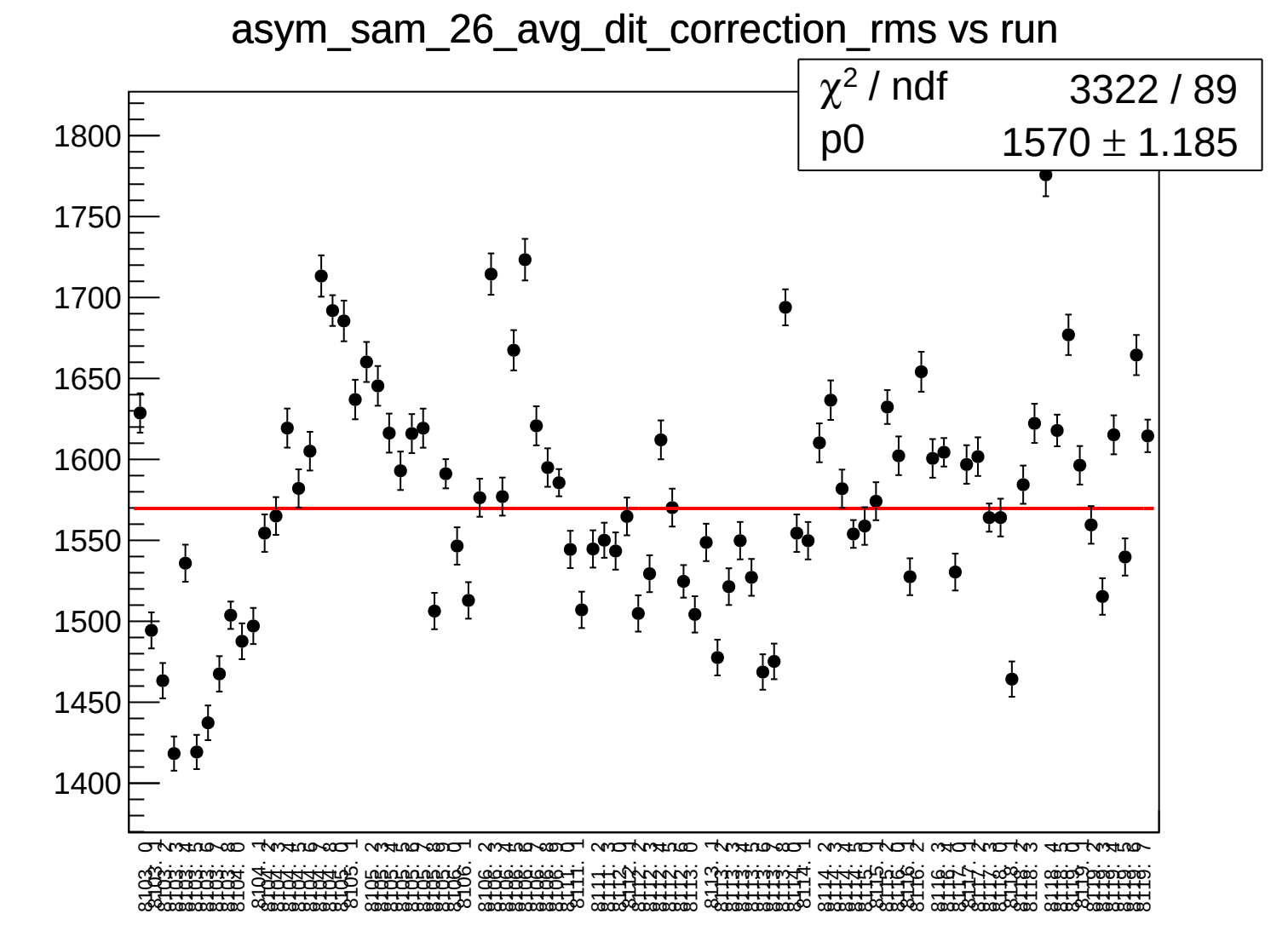

dit_asym_sam_26_avg_mean vs run
χ² / ndf 72.94 / 89
p0 −396.3 ± 167.9
pull
Entries 90
Mean −150.9
Std Dev 0

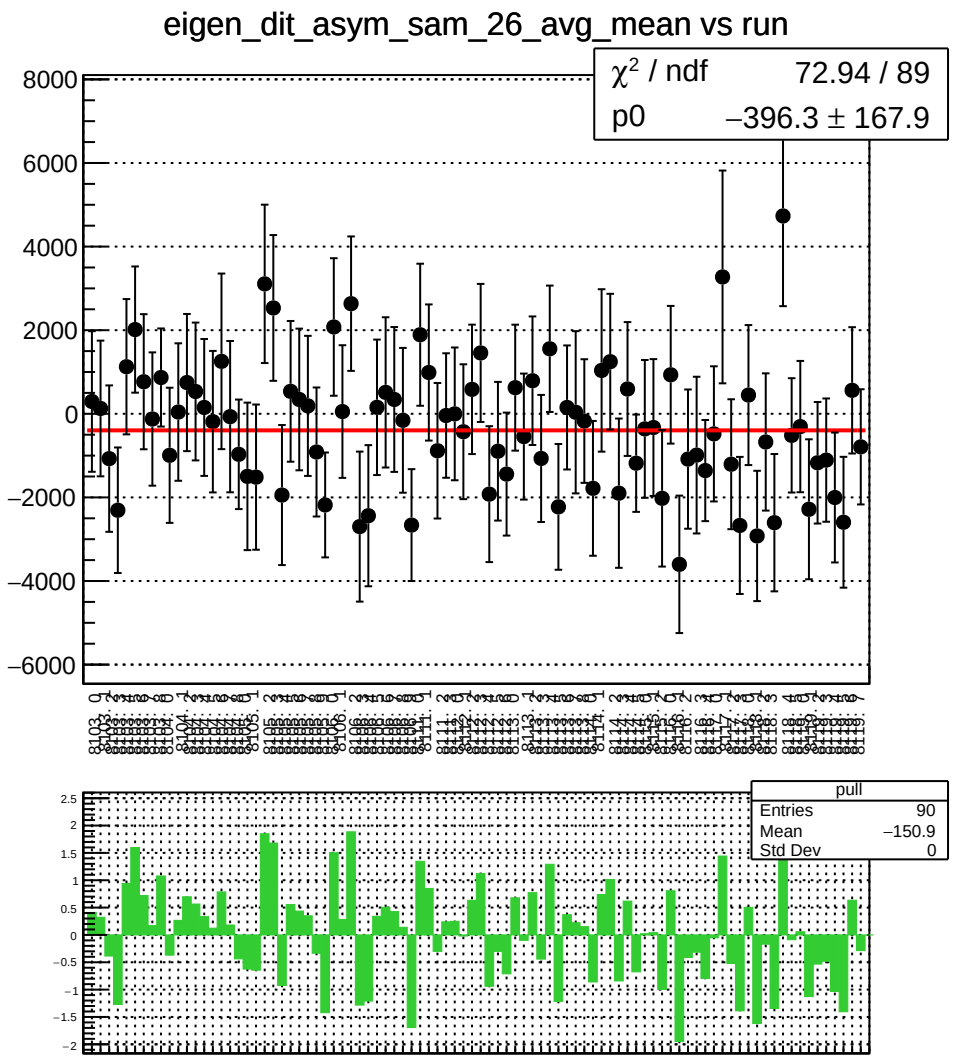

pull1D
Entries 90
Mean 0.03111
Std Dev 0.8997

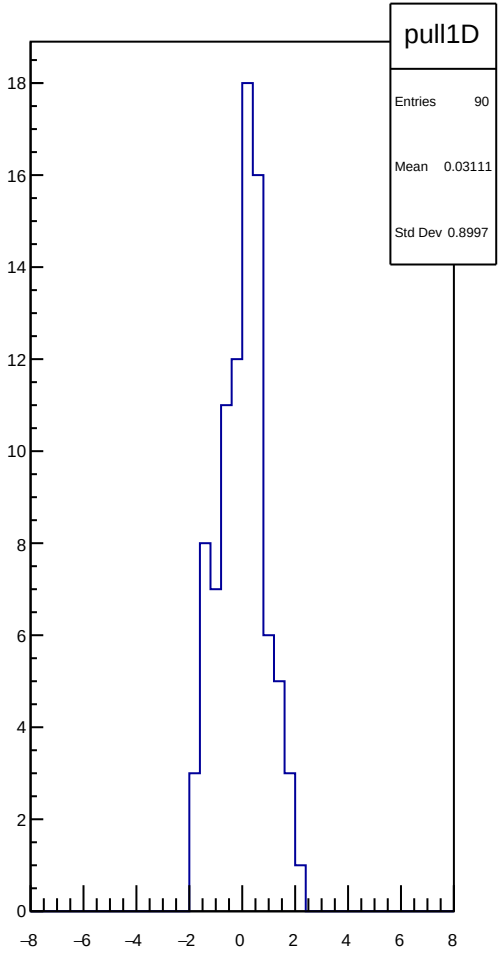

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.242e+04 / 89
p0 156.9 ± 0.1188
240
220
200
180
160
140

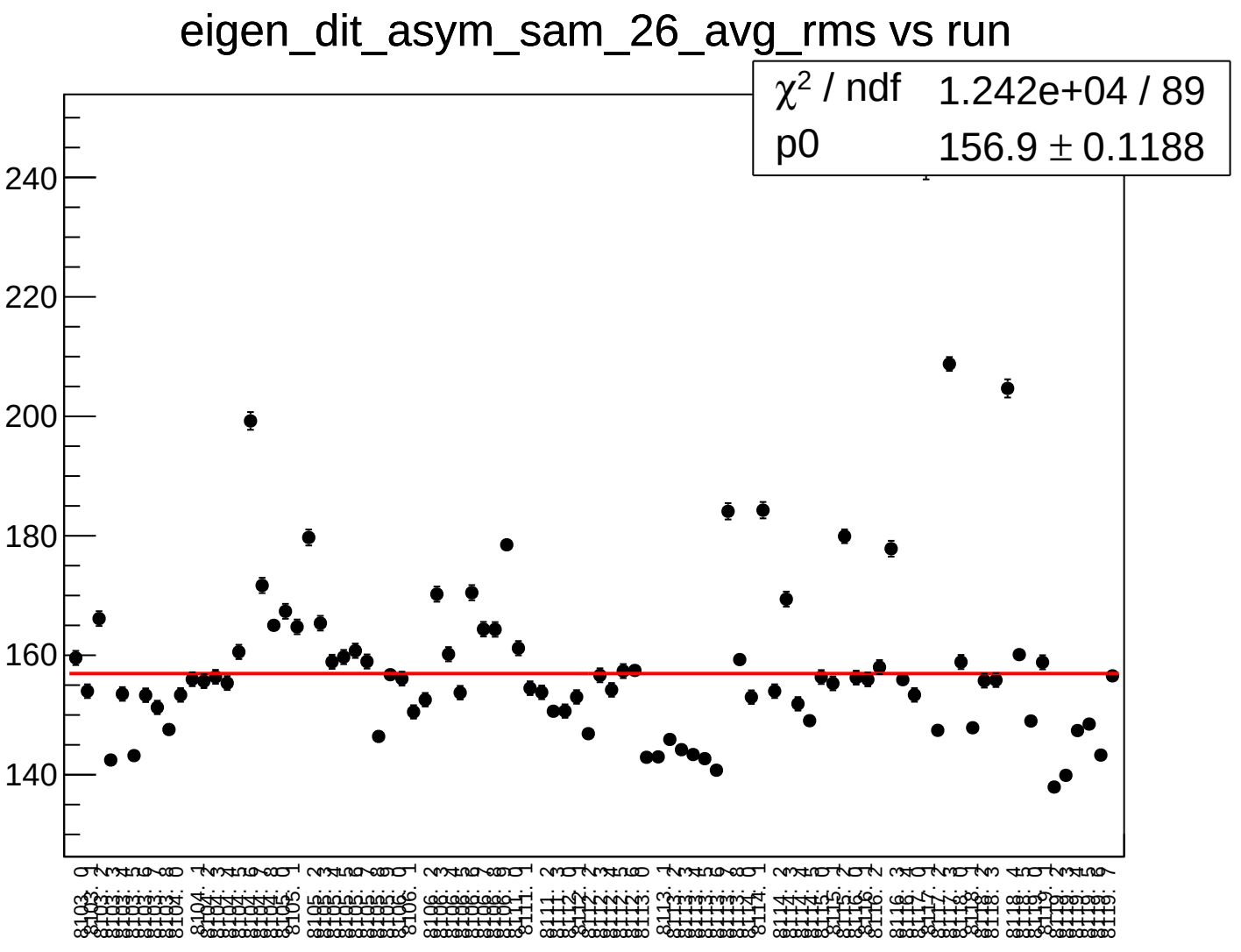

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 83.59 / 89
p0 −4184 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 950.2
Std Dev 0
3
2
1
0
−1
−2

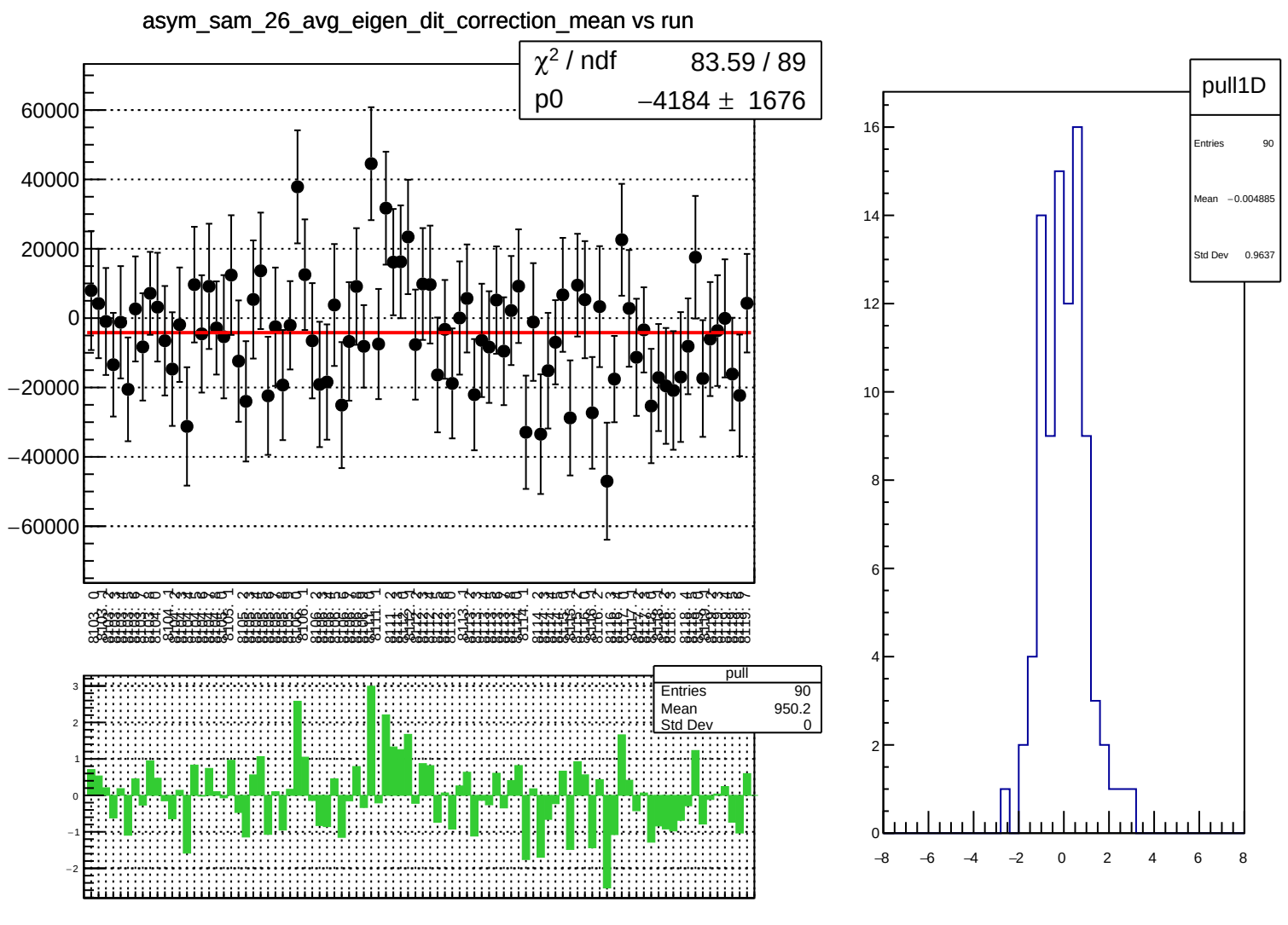

pull1D
Entries 90
Mean −0.004885
Std Dev 0.9637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

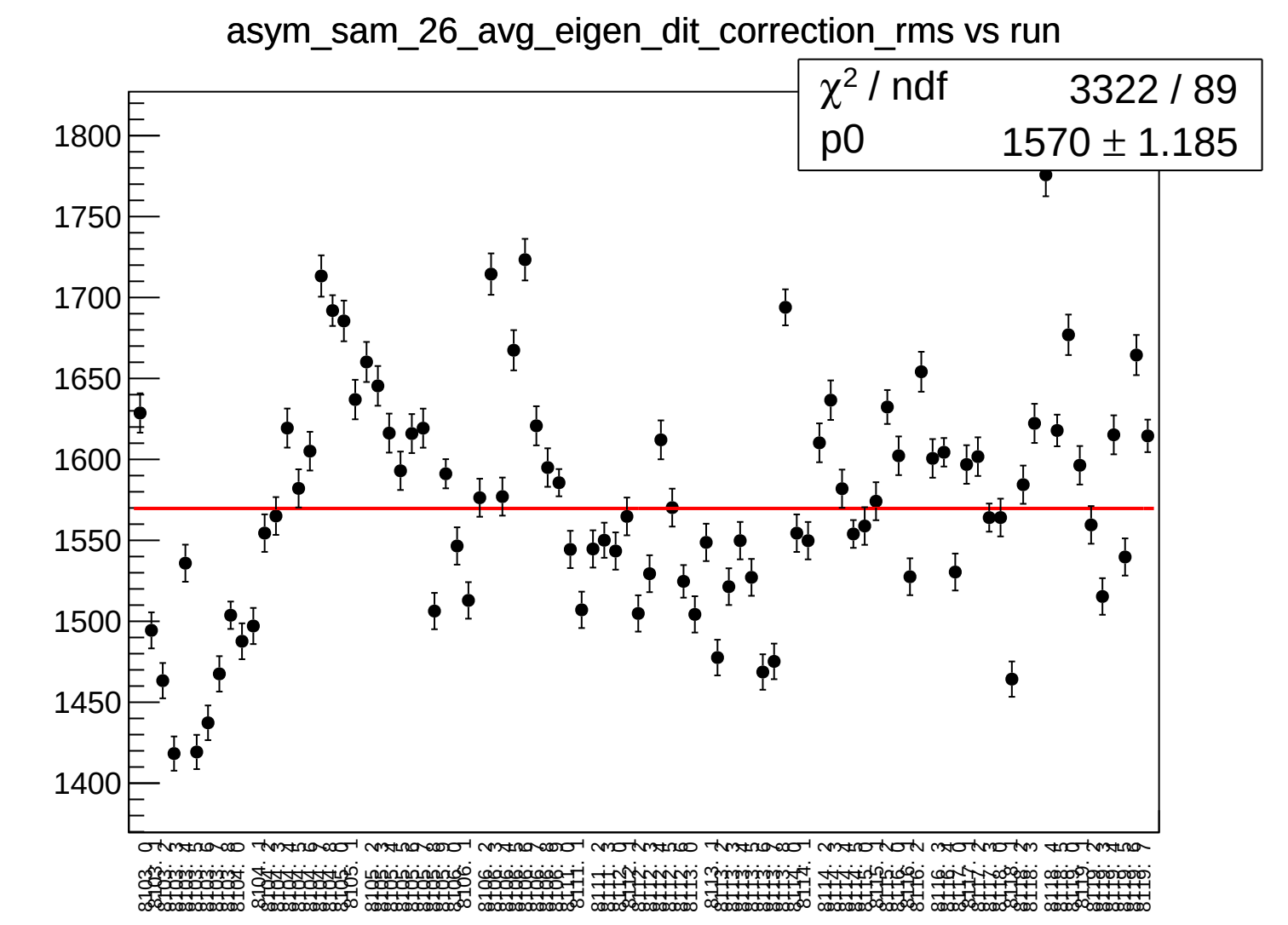

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 3322 / 89
p0 1570 ± 1.185
1800
1750
1700
1650
1600
1550
1500
1450
1400

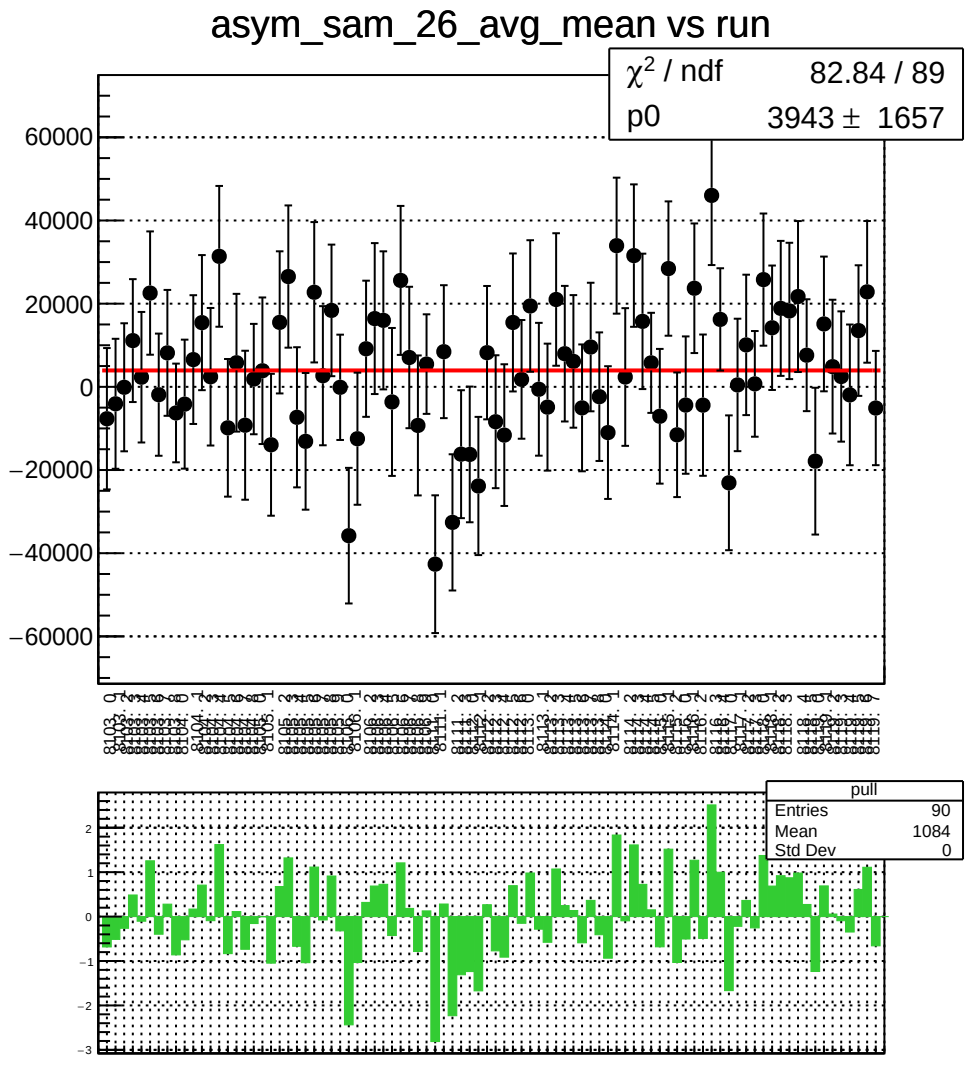

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 72.94 / 89
p0 −396.3 ± 167.9
pull
Entries 90
Mean −150.9
Std Dev 0

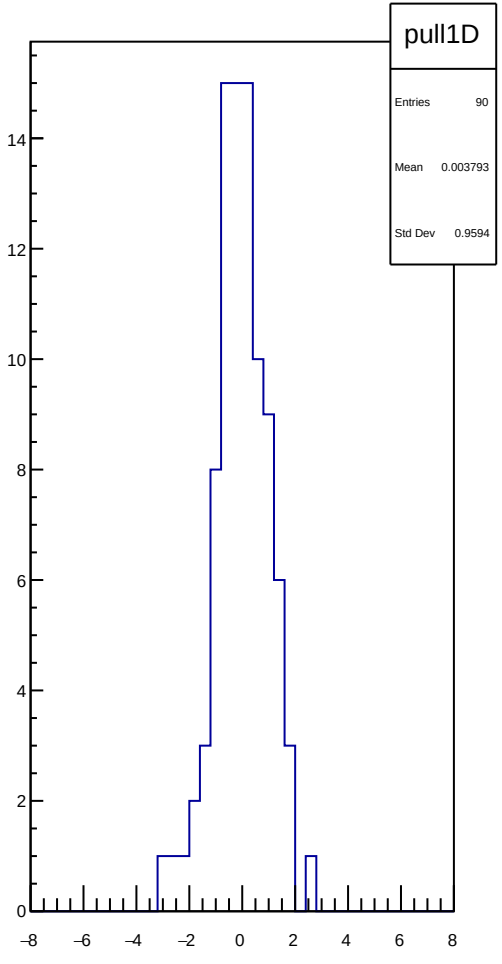

pull1D
Entries 90
Mean 0.03111
Std Dev 0.8997

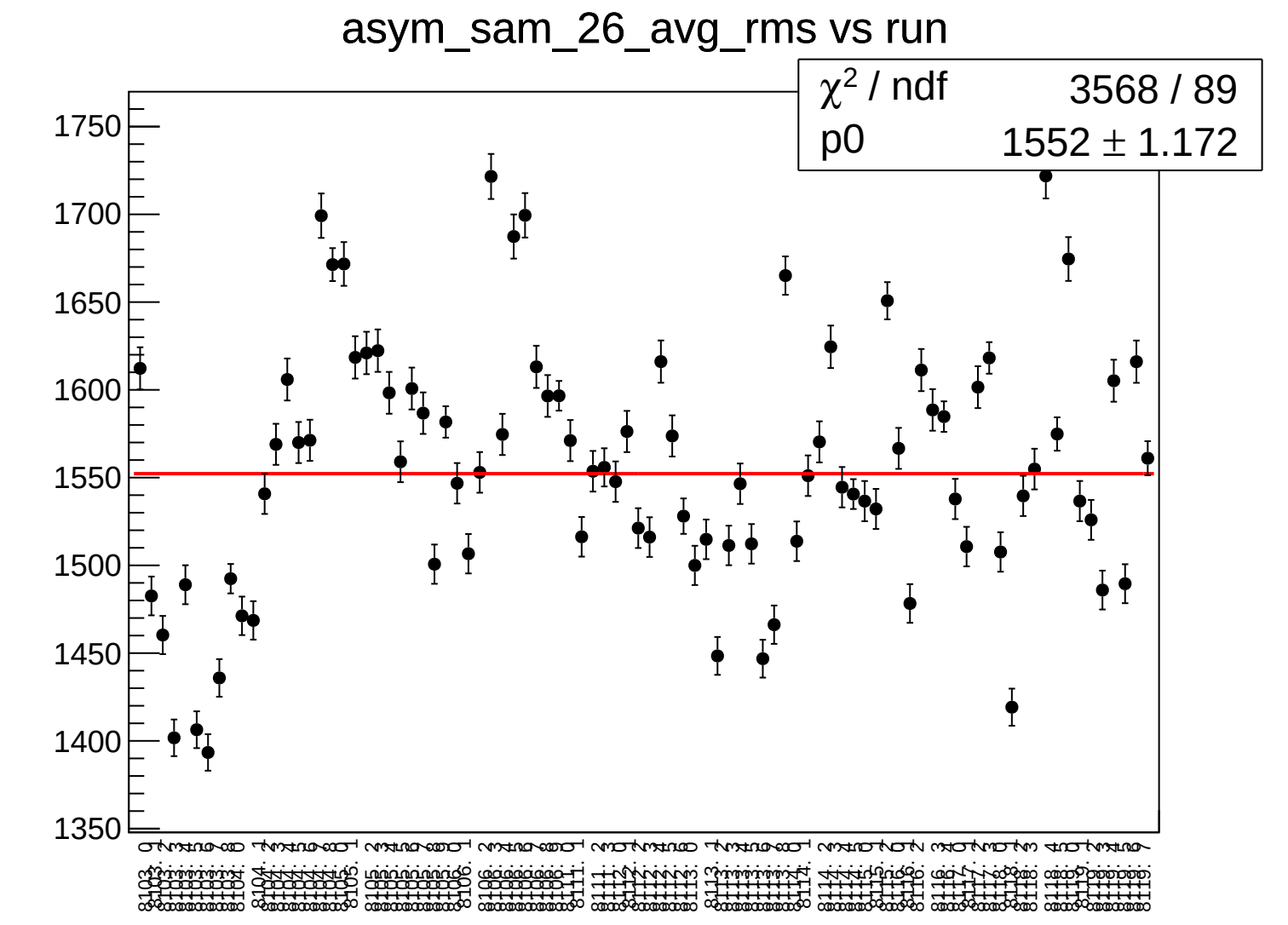

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.242e+04 / 89
p0 156.9 ± 0.1188
240
220
200
180
160
140

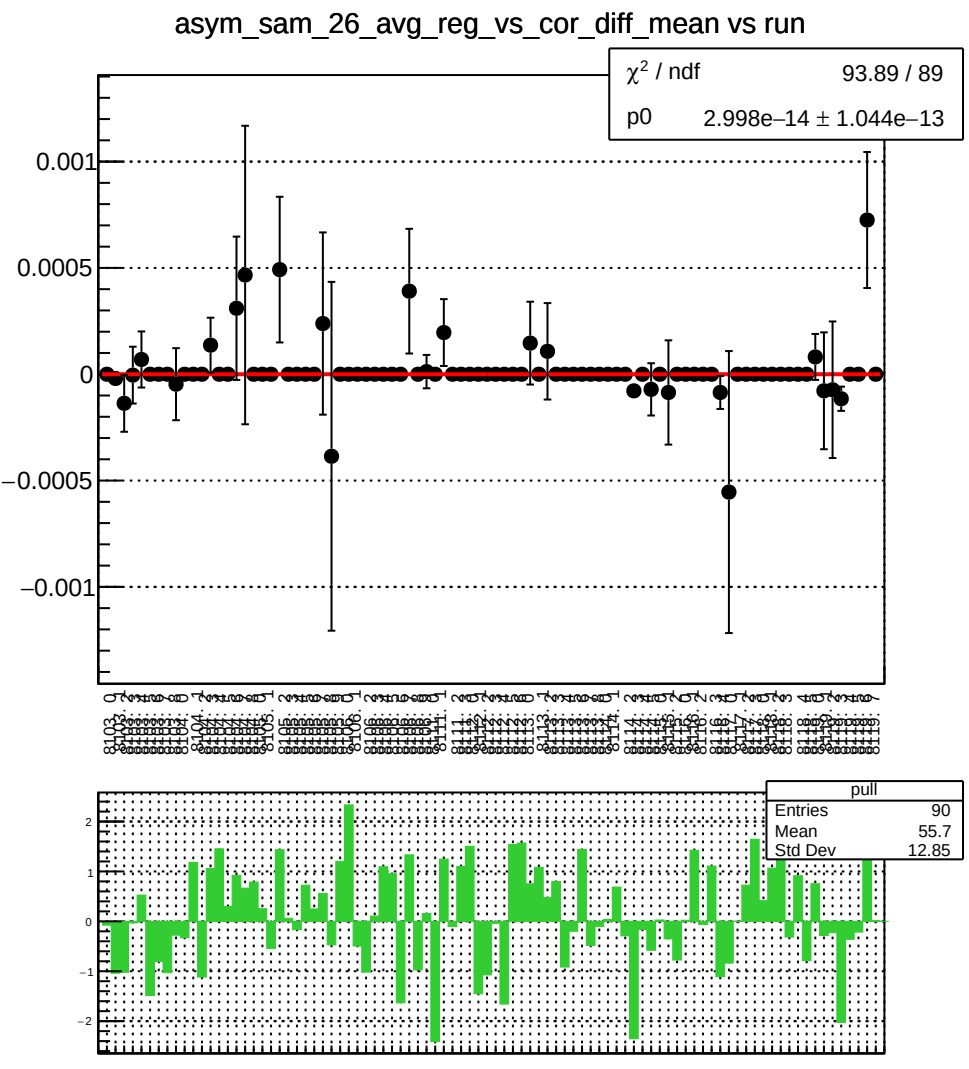

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.59 / 89
p0 −4184 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 950.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.004885
Std Dev 0.9637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

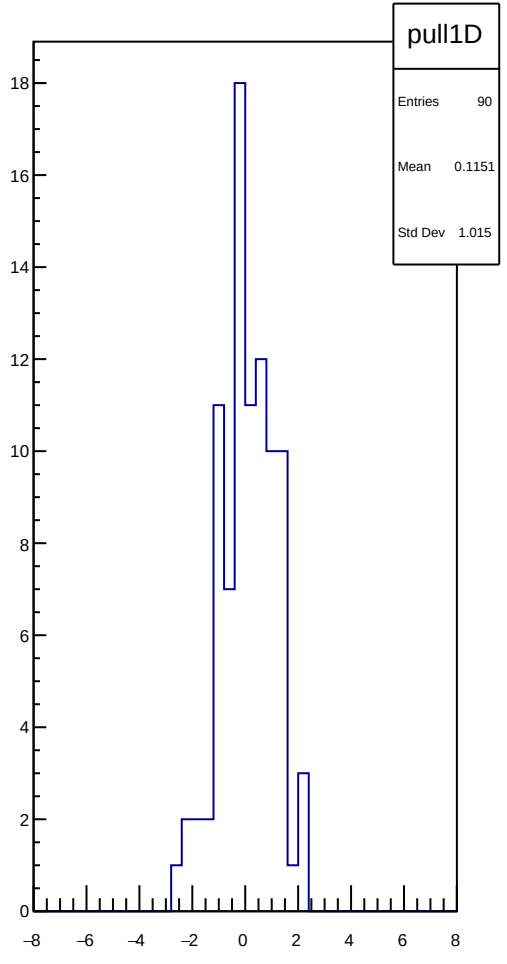

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 3322 / 89
p0 1570 ± 1.185
1800
1750
1700
1650
1600
1550
1500
1450
1400

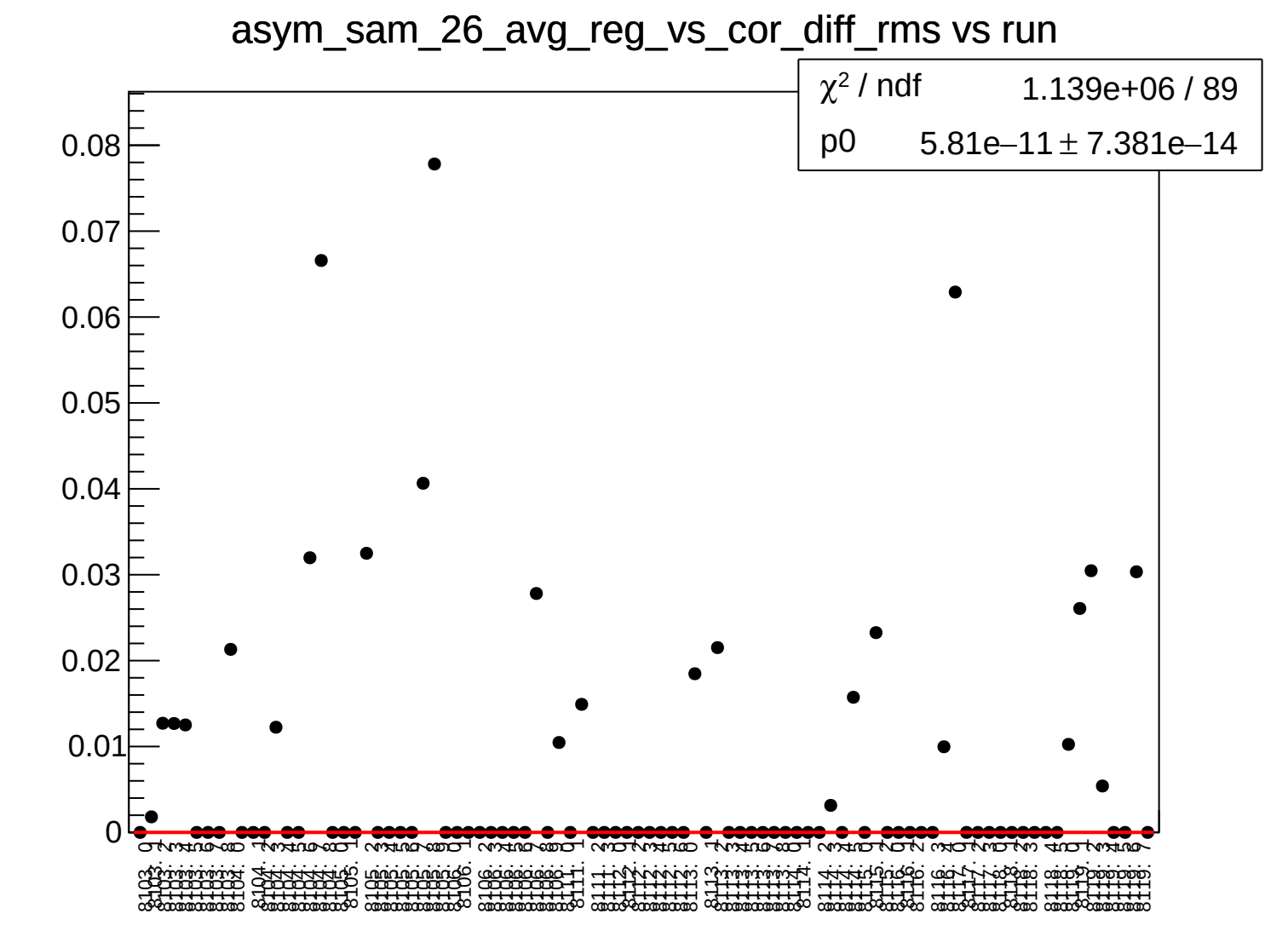

asym_sam_26_avg_mean vs run
χ² / ndf 82.84 / 89
p0 3943 ± 1657
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1084
Std Dev 0
2
1
0
−1
−2
−3

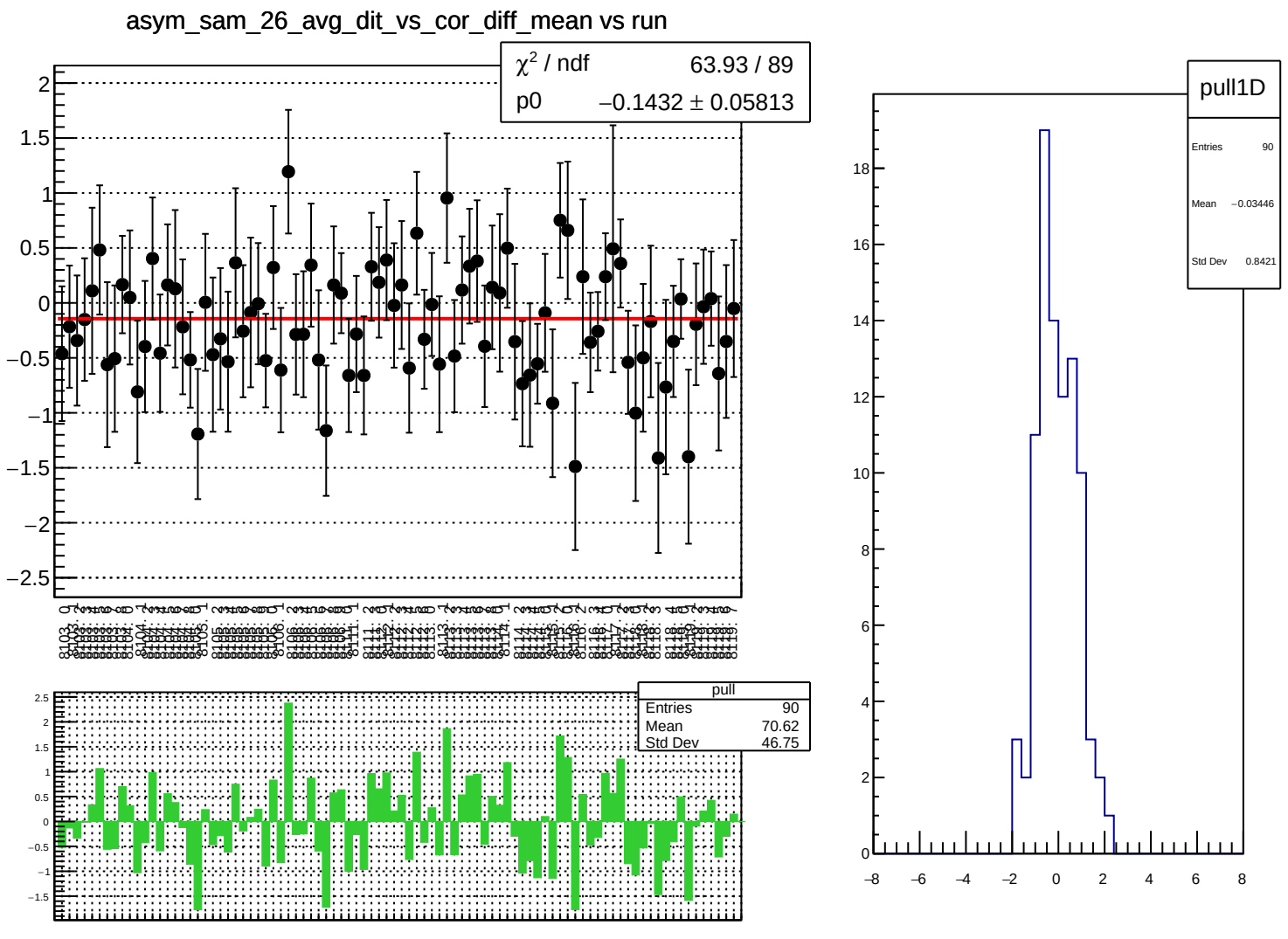

pull1D
Entries 90
Mean 0.003793
Std Dev 0.9594
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

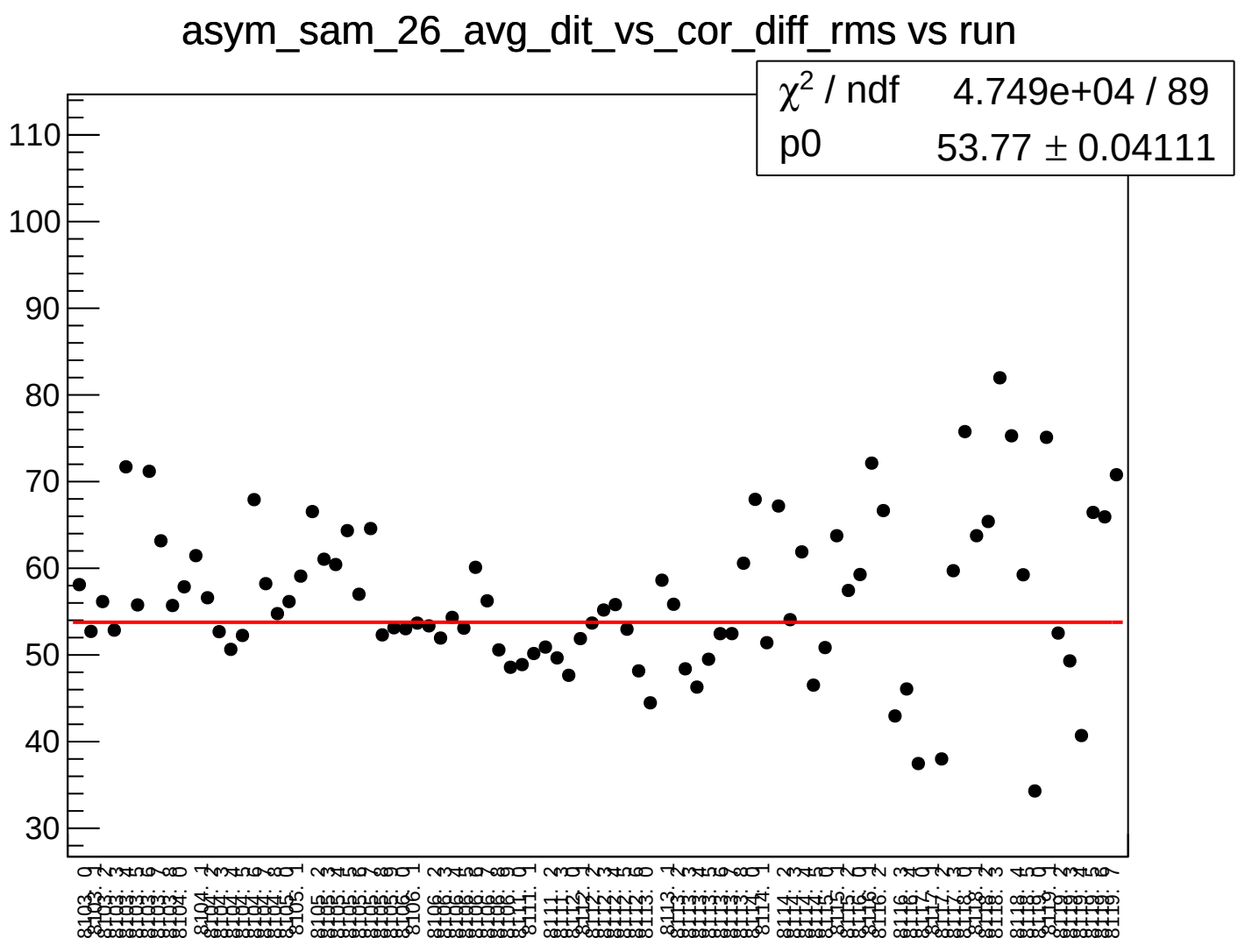

asym_sam_26_avg_rms vs run
χ² / ndf 3568 / 89
p0 1552 ± 1.172
1750
1700
1650
1600
1550
1500
1450
1400
1350

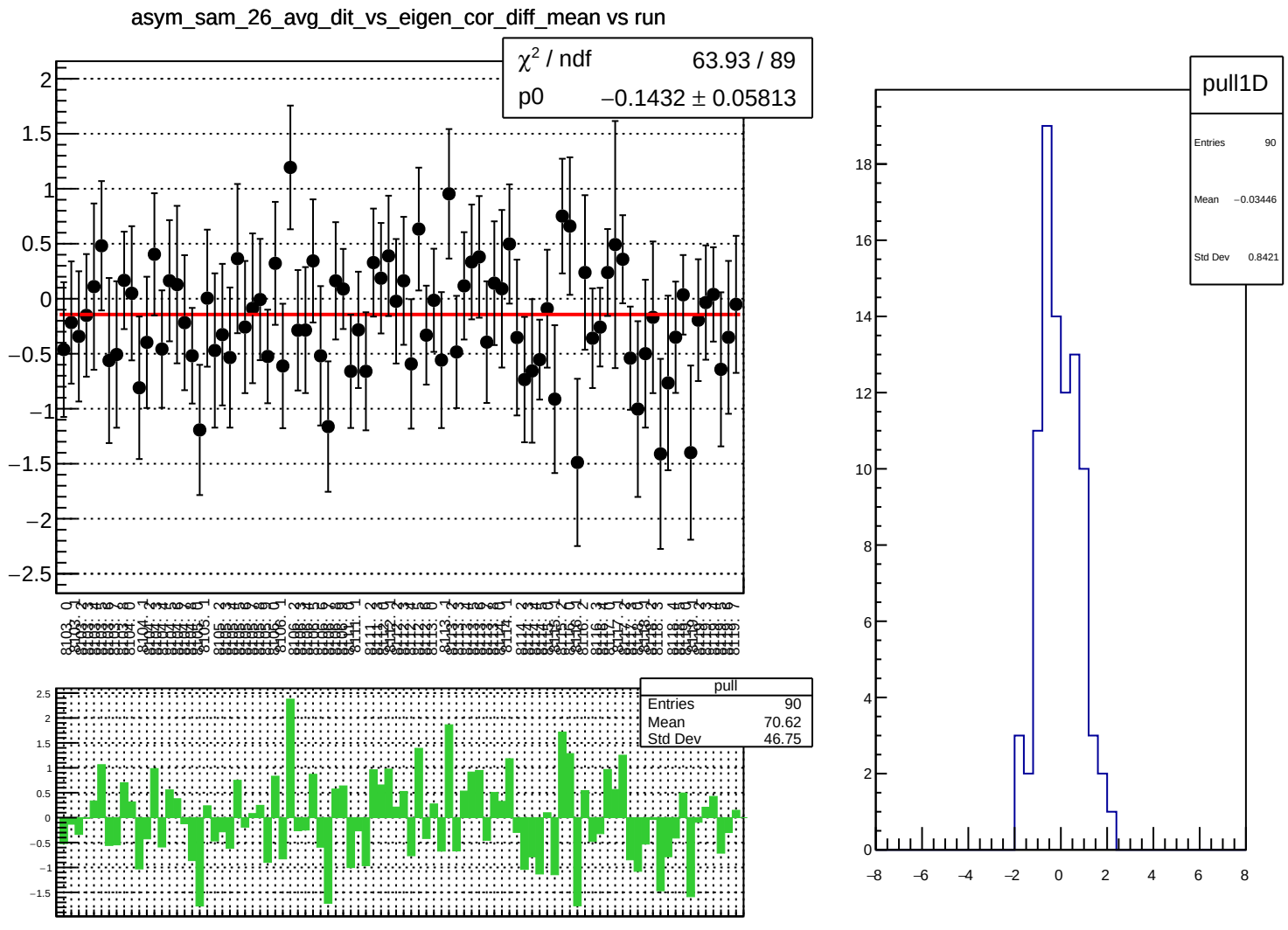

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.89 / 89
p0 2.998e−14 ± 1.044e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 55.7
Std Dev 12.85
2
1
0
−1
−2

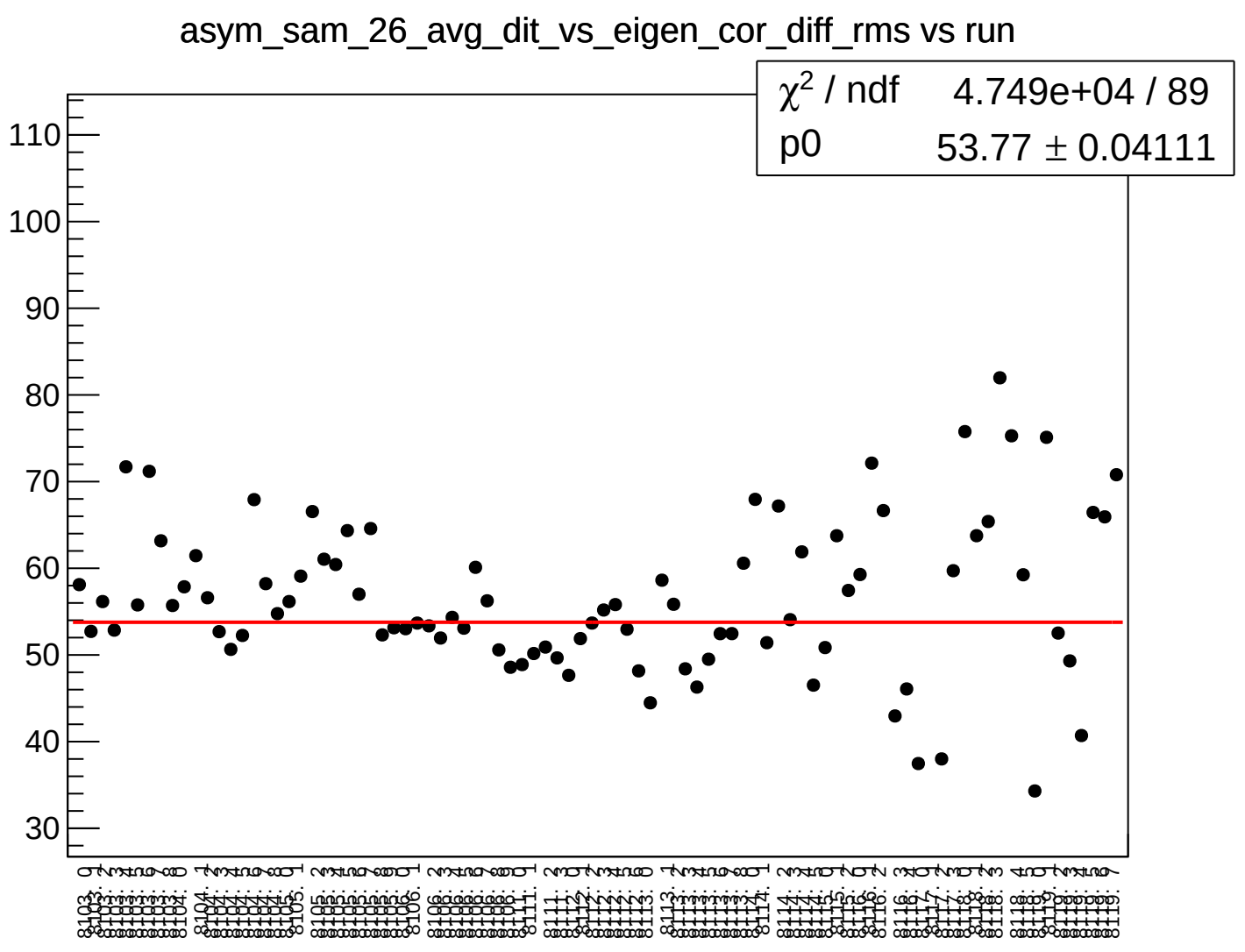

pull1D
Entries 90
Mean 0.1151
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

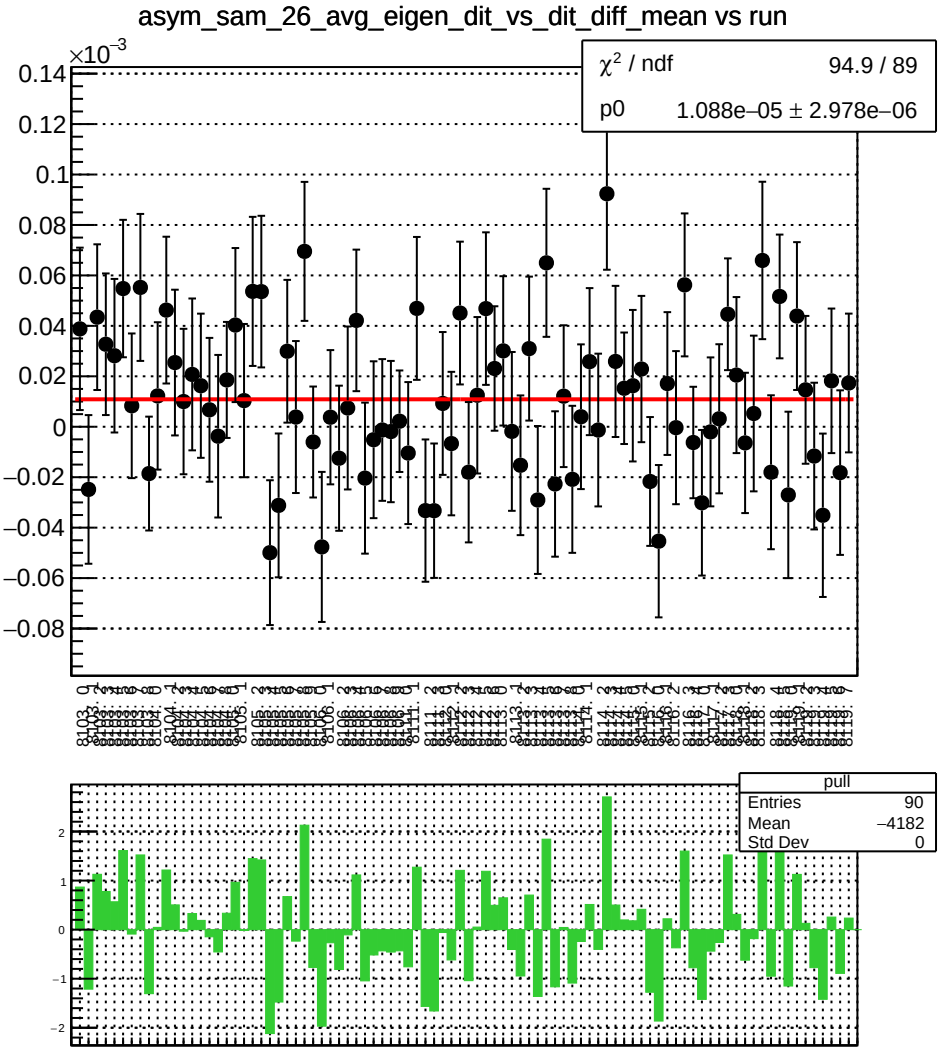

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 89
p0 5.81e−11 ± 7.381e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

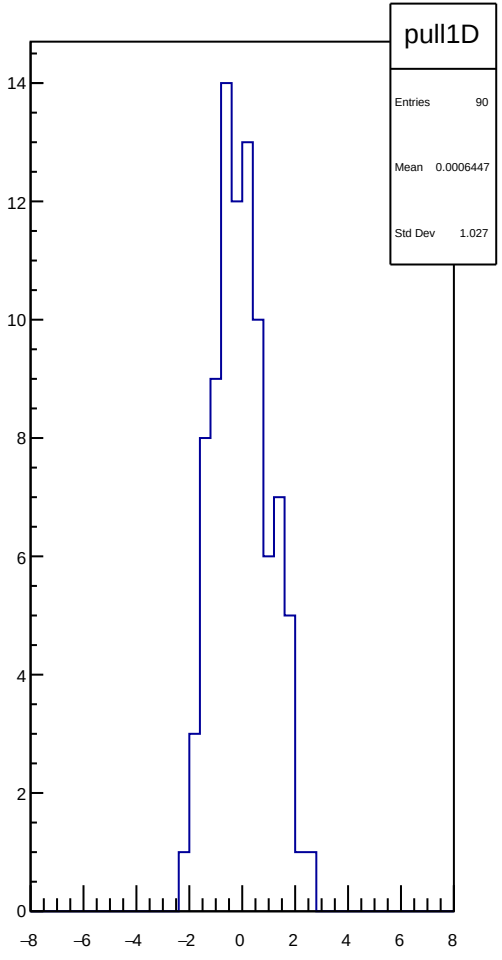

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 63.93 / 89
p0 −0.1432 ± 0.05813
pull
Entries 90
Mean 70.62
Std Dev 46.75
pull1D
Entries 90
Mean −0.03446
Std Dev 0.8421

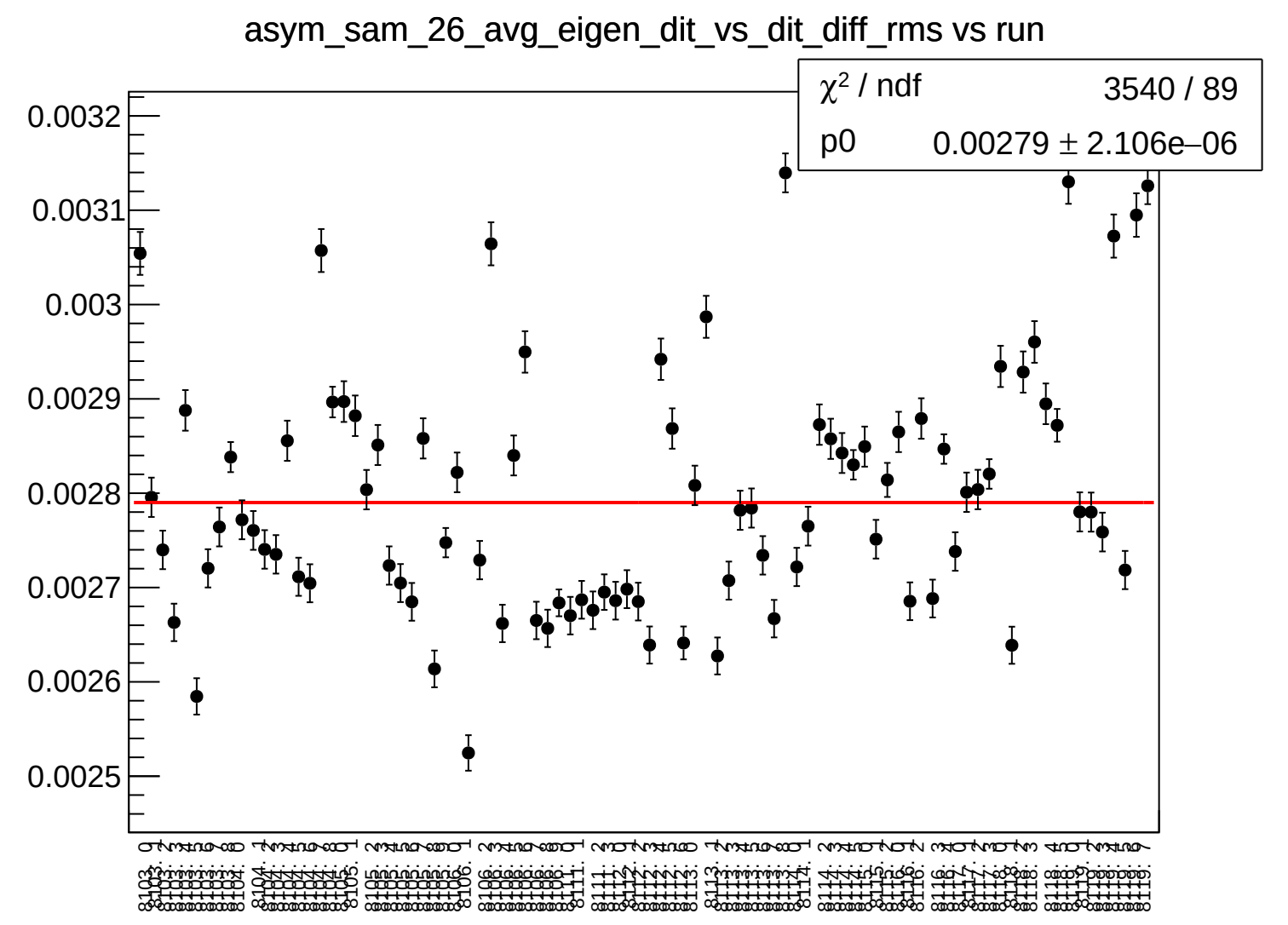

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.749e+04 / 89
p0 53.77 ± 0.04111
110
100
90
80
70
60
50
40
30

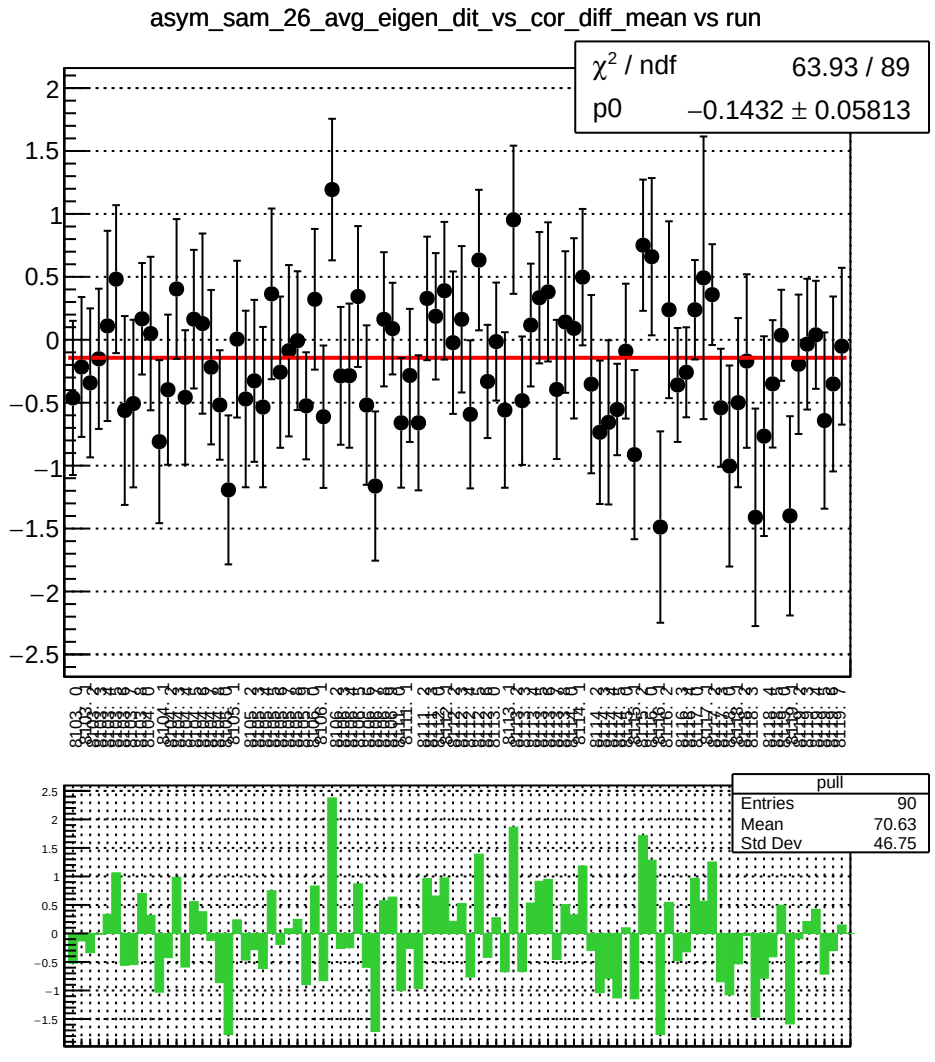

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.93 / 89
p0 −0.1432 ± 0.05813
pull
Entries 90
Mean 70.62
Std Dev 46.75
pull1D
Entries 90
Mean −0.03446
Std Dev 0.8421

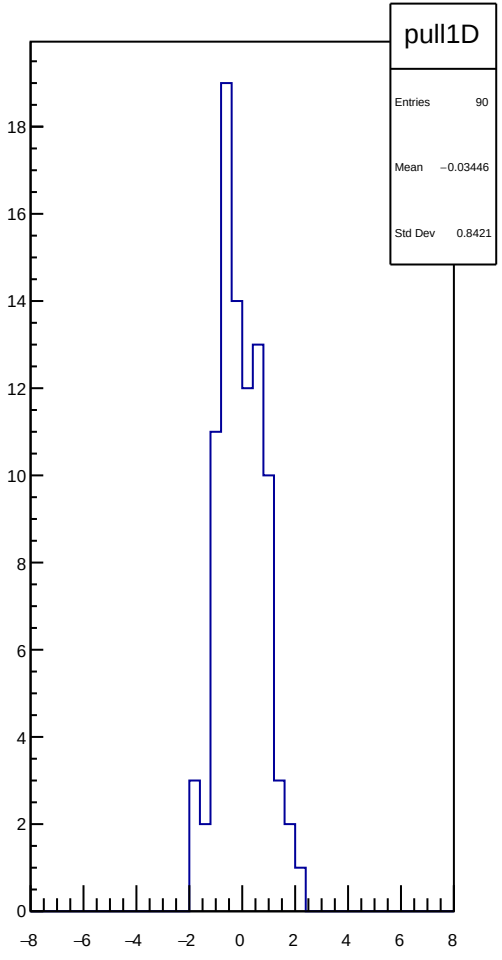

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.749e+04 / 89
p0 53.77 ± 0.04111
110
100
90
80
70
60
50
40
30

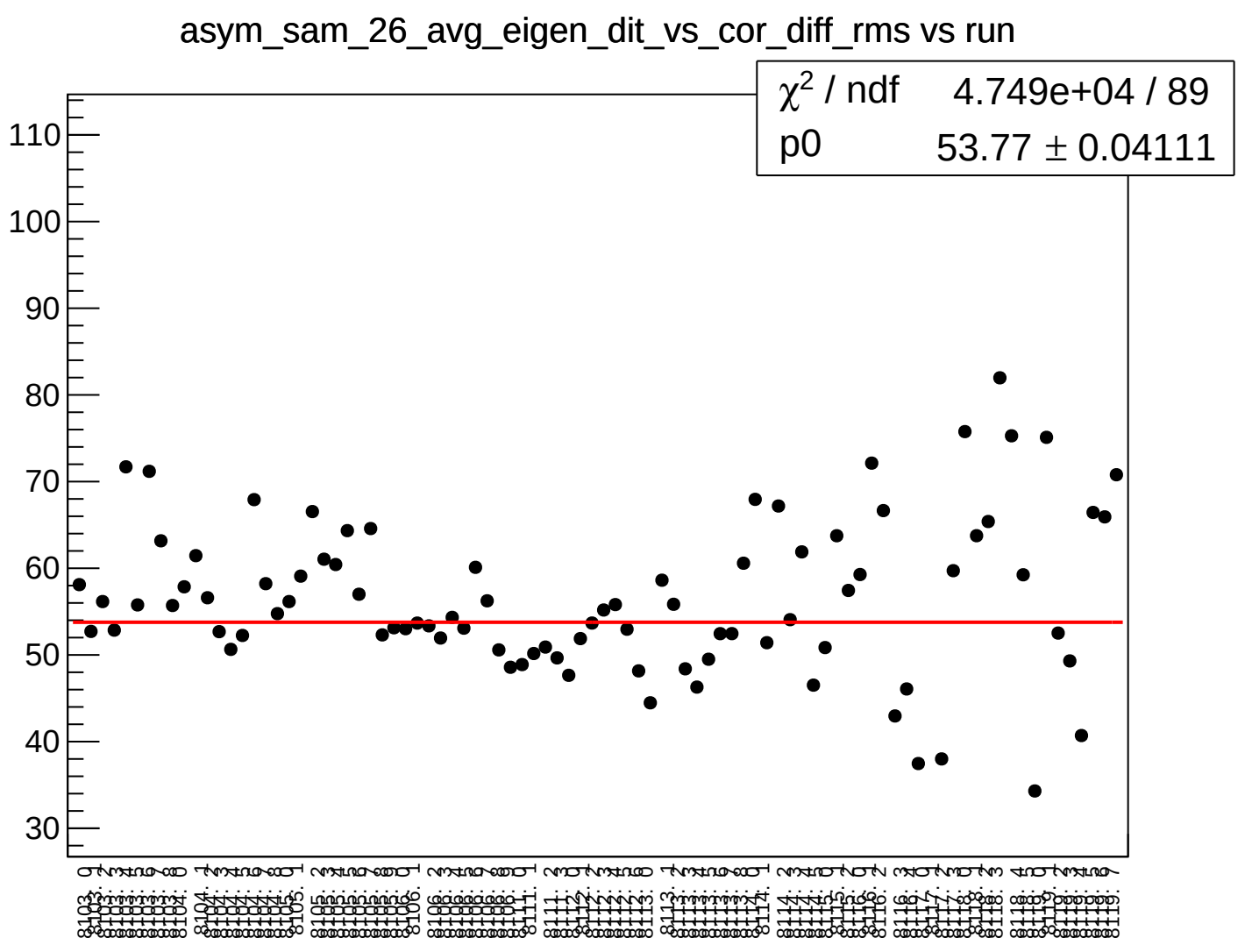

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.9 / 89
p0 1.088e−05 ± 2.978e−06
pull
Entries 90
Mean −4182
Std Dev 0

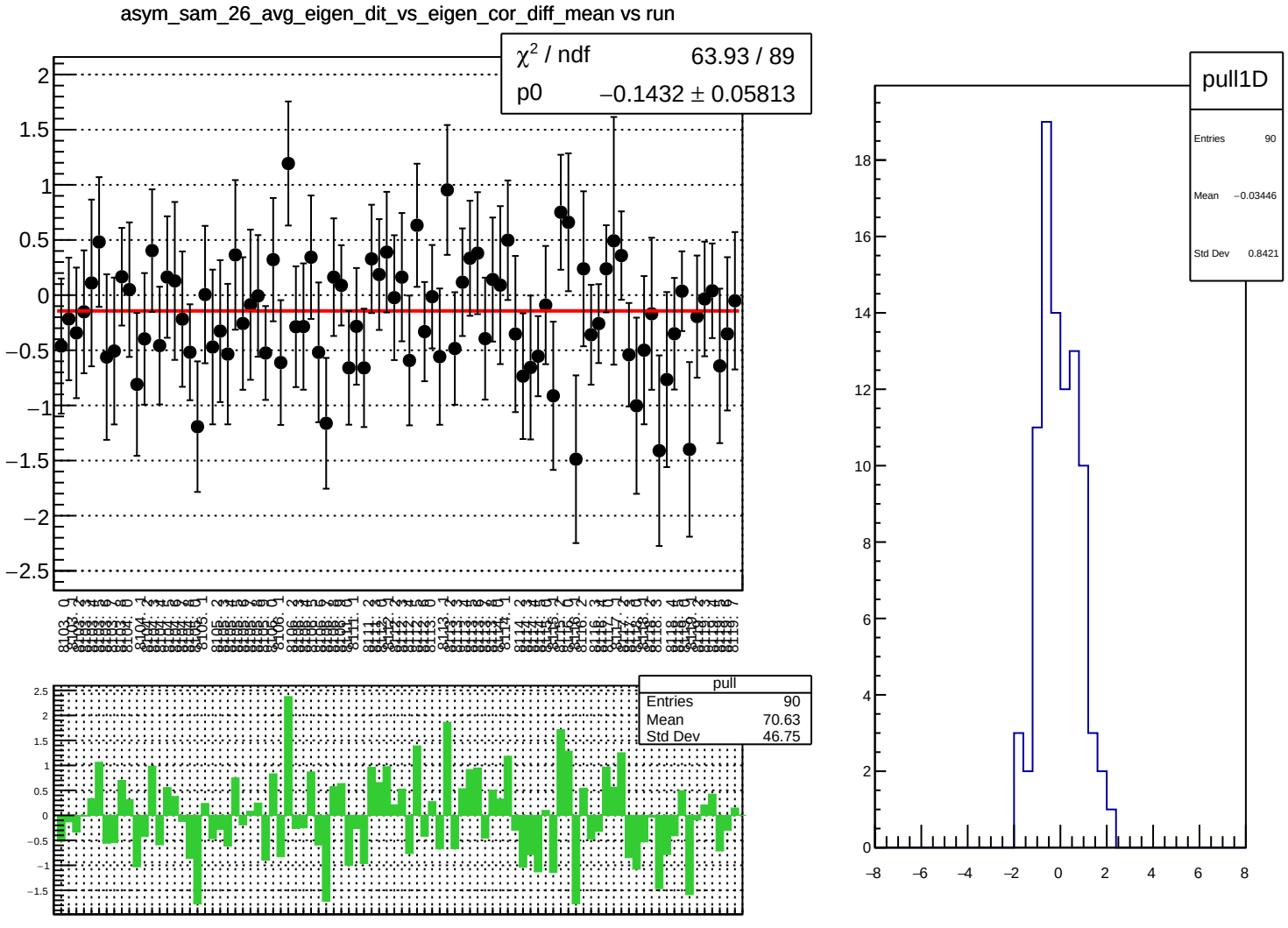

pull1D
Entries 90
Mean 0.0006447
Std Dev 1.027

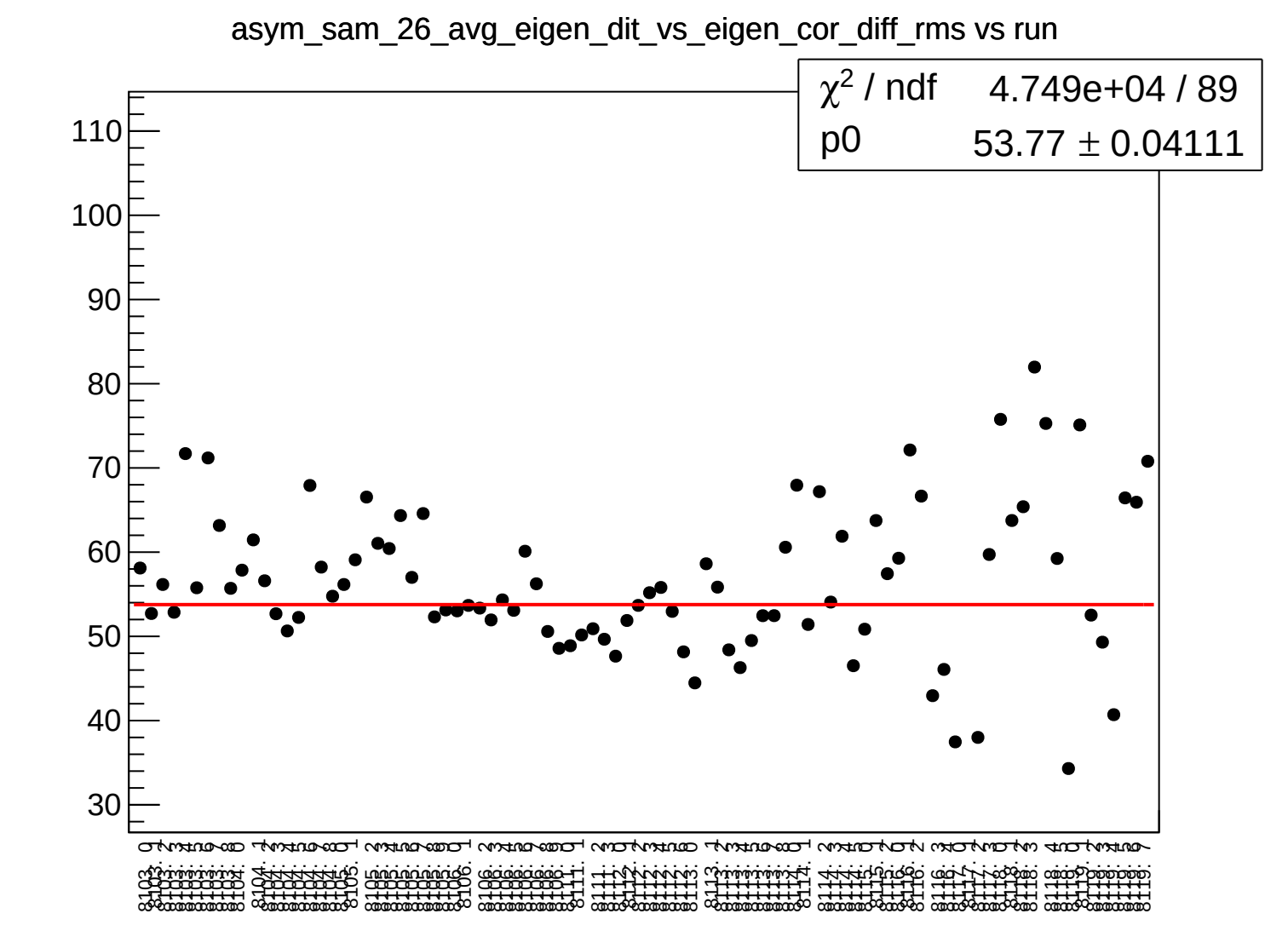

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3540 / 89
p0 0.00279 ± 2.106e–06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

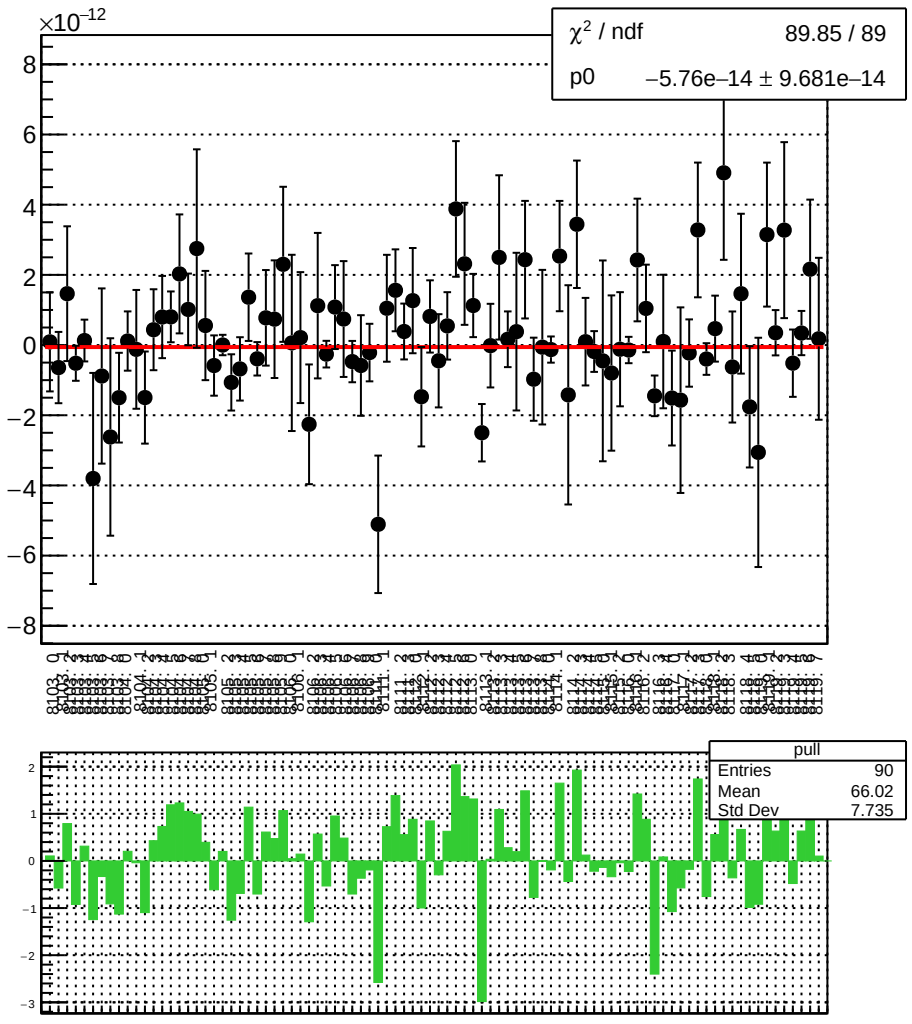

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.93 / 89
p0 −0.1432 ± 0.05813
pull
Entries 90
Mean 70.63
Std Dev 46.75

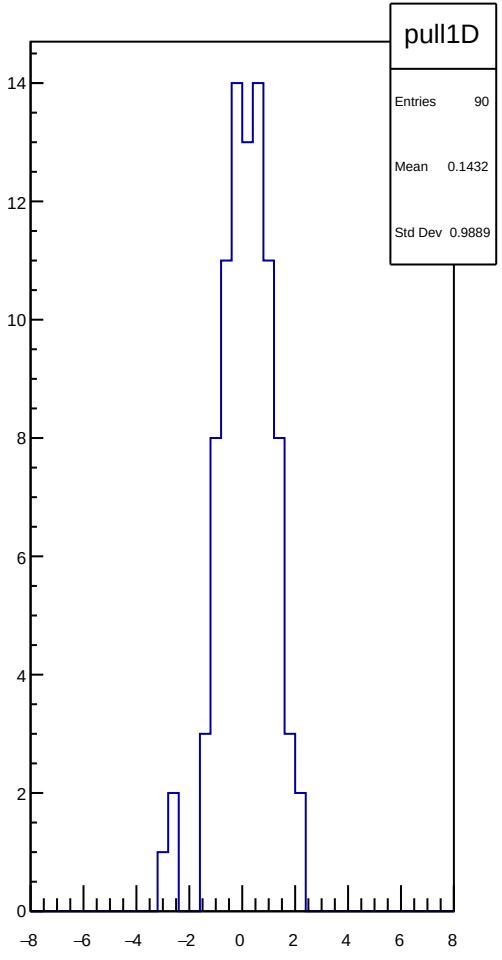

pull1D
Entries 90
Mean −0.03446
Std Dev 0.8421

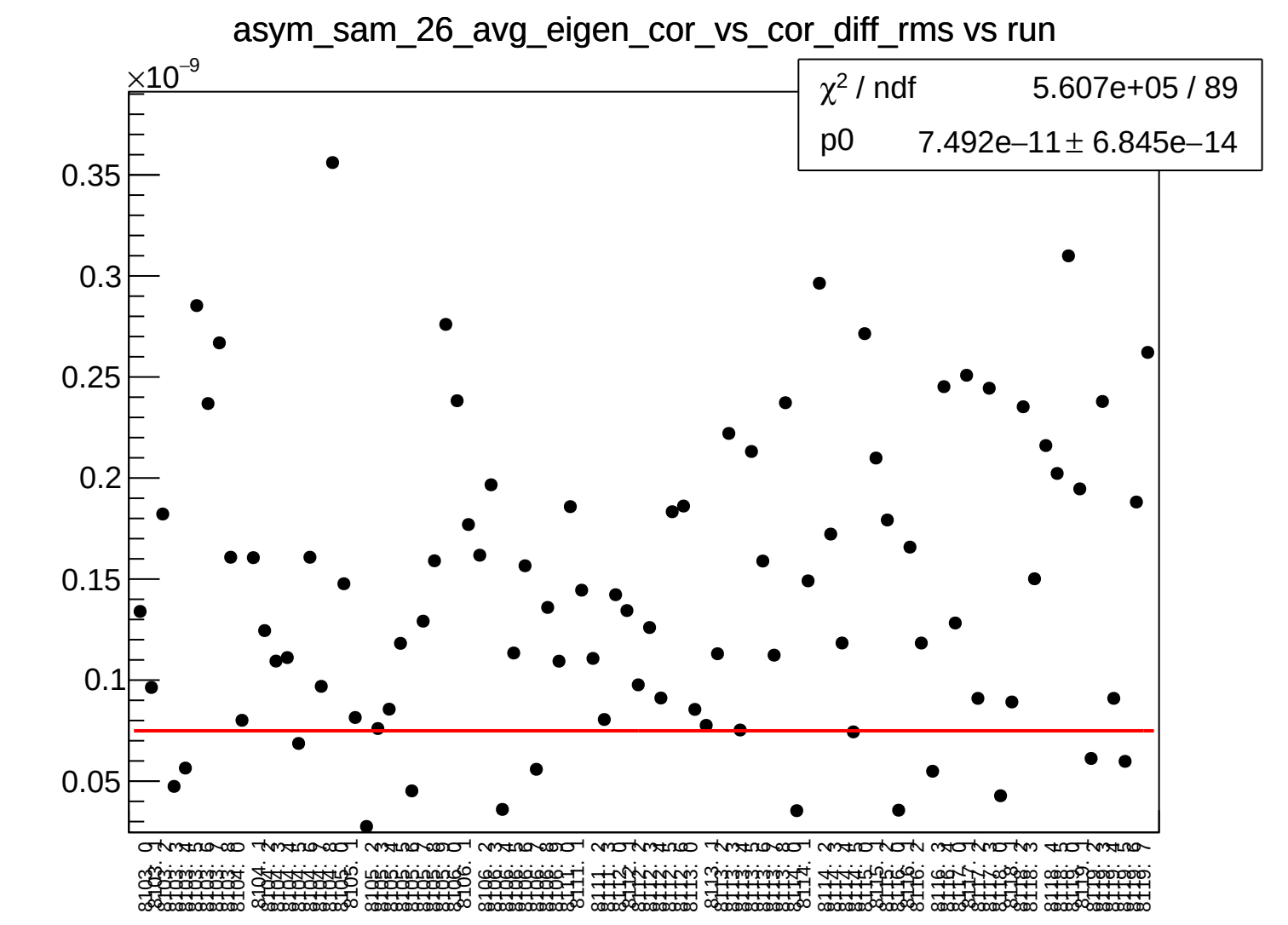

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.749e+04 / 89
p0 53.77 ± 0.04111
110
100
90
80
70
60
50
40
30

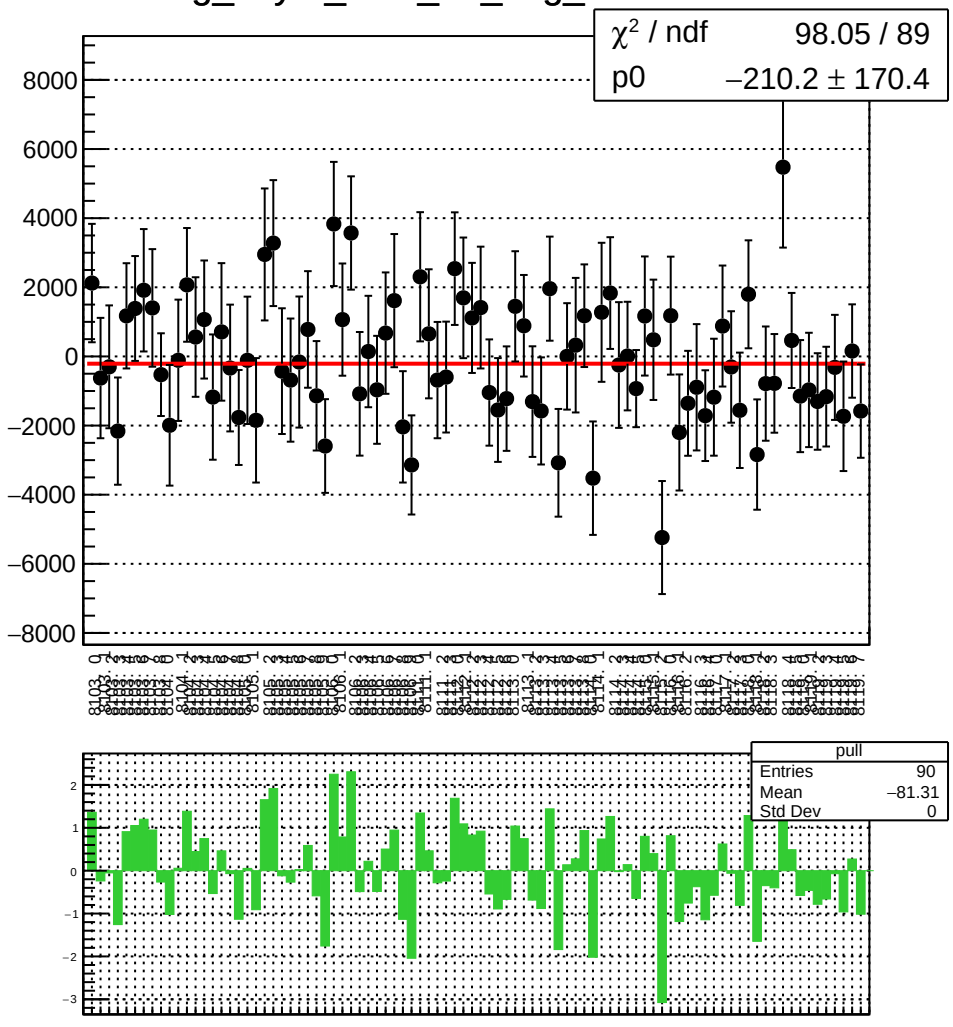

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.93 / 89
p0 −0.1432 ± 0.05813
pull
Entries 90
Mean 70.63
Std Dev 46.75
pull1D
Entries 90
Mean −0.03446
Std Dev 0.8421

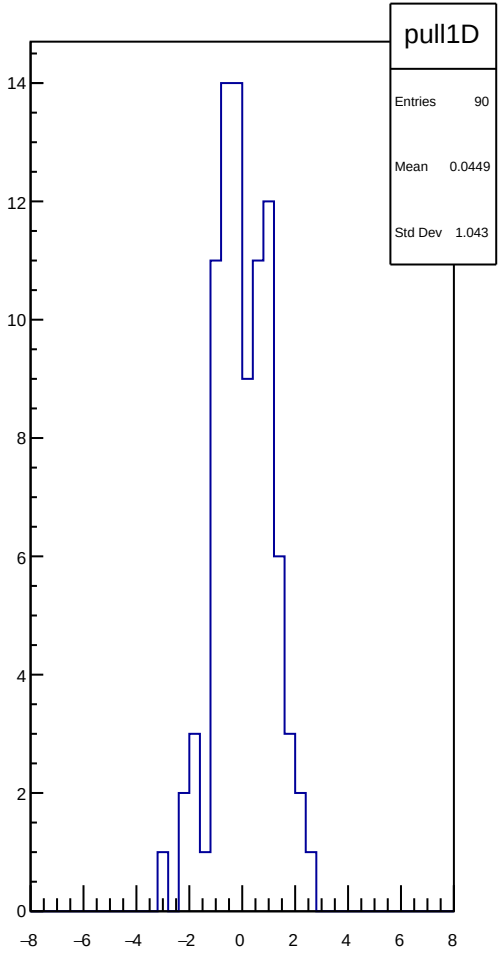

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.749e+04 / 89
p0 53.77 ± 0.04111
110
100
90
80
70
60
50
40
30

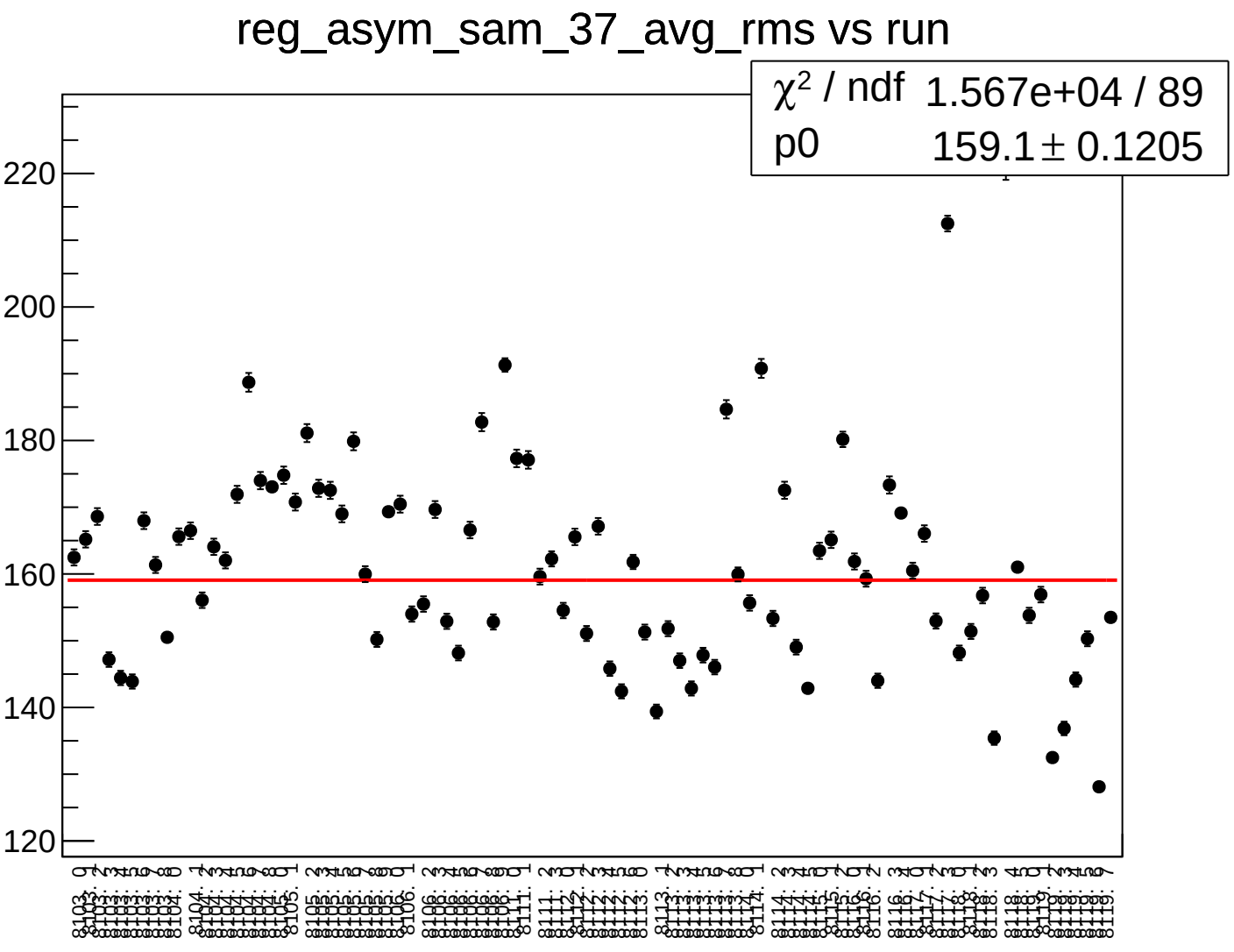

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.85 / 89
p0 −5.76e−14 ± 9.681e−14
pull
Entries 90
Mean 66.02
Std Dev 7.735

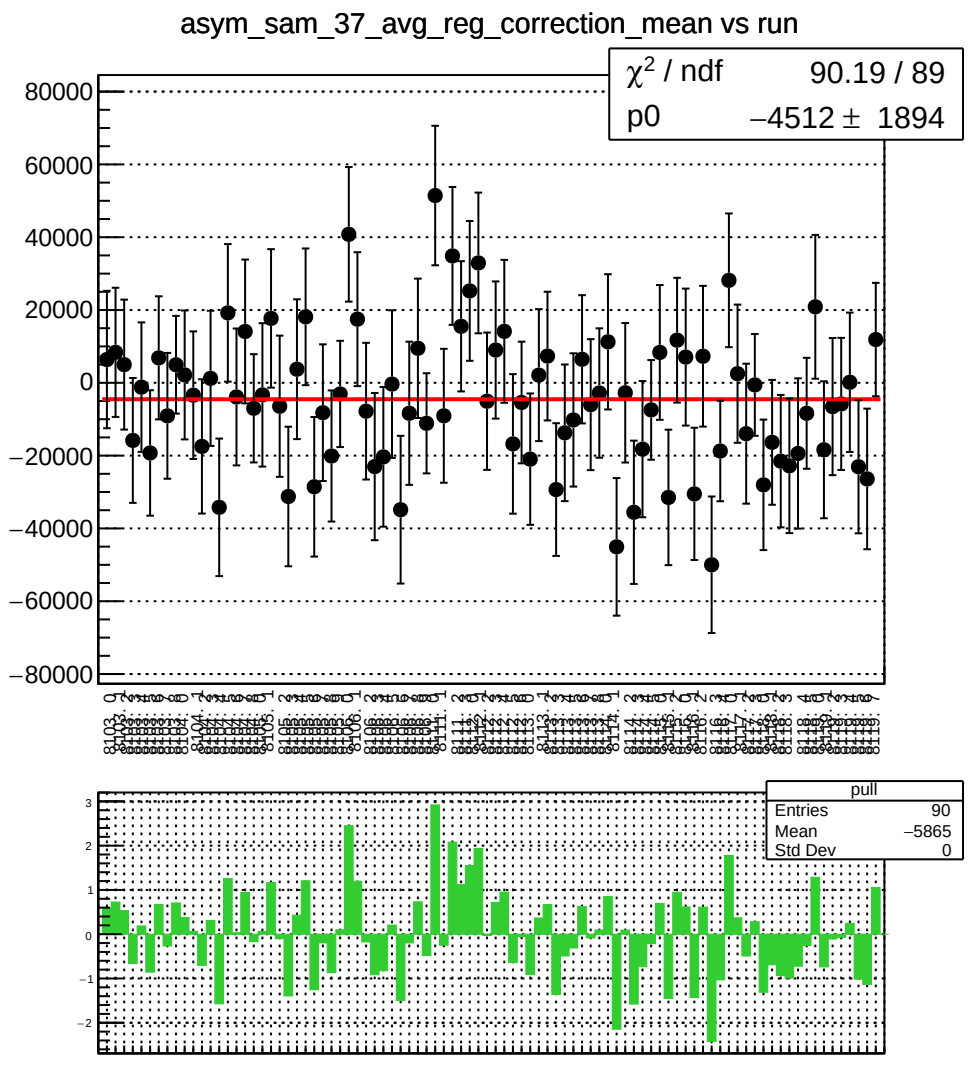

pull1D
Entries 90
Mean 0.1432
Std Dev 0.9889

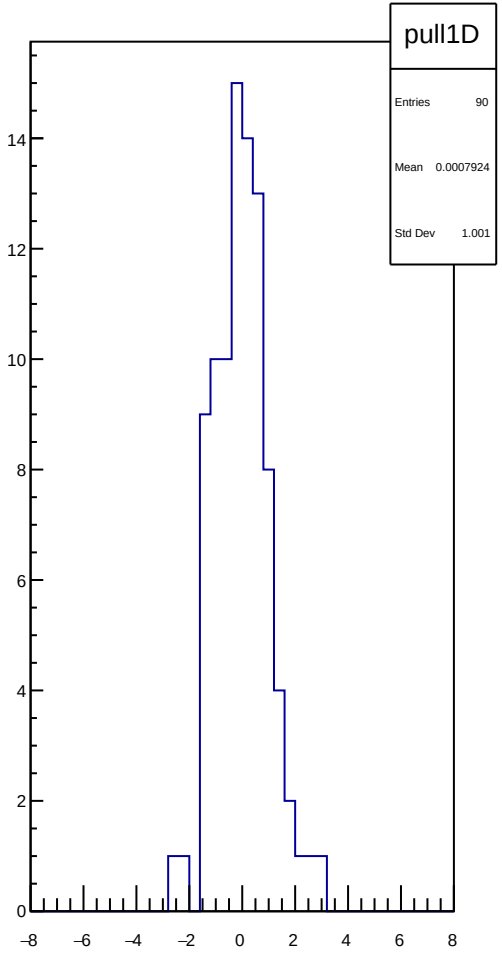

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.607e+05 / 89
p0 7.492e−11 ± 6.845e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

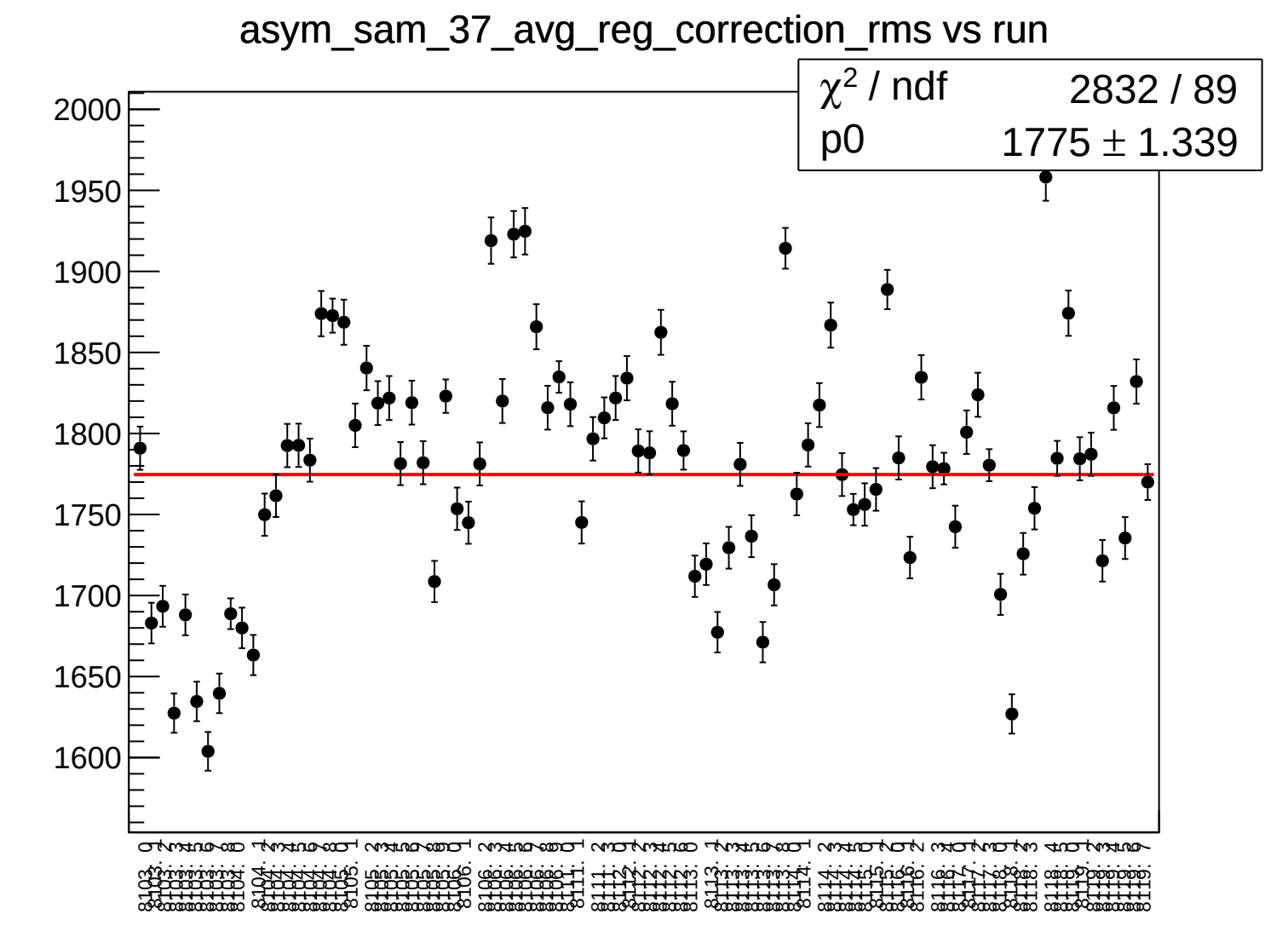

reg_asym_sam_37_avg_mean vs run
χ² / ndf 98.05 / 89
p0 −210.2 ± 170.4
pull
Entries 90
Mean −81.31
Std Dev 0

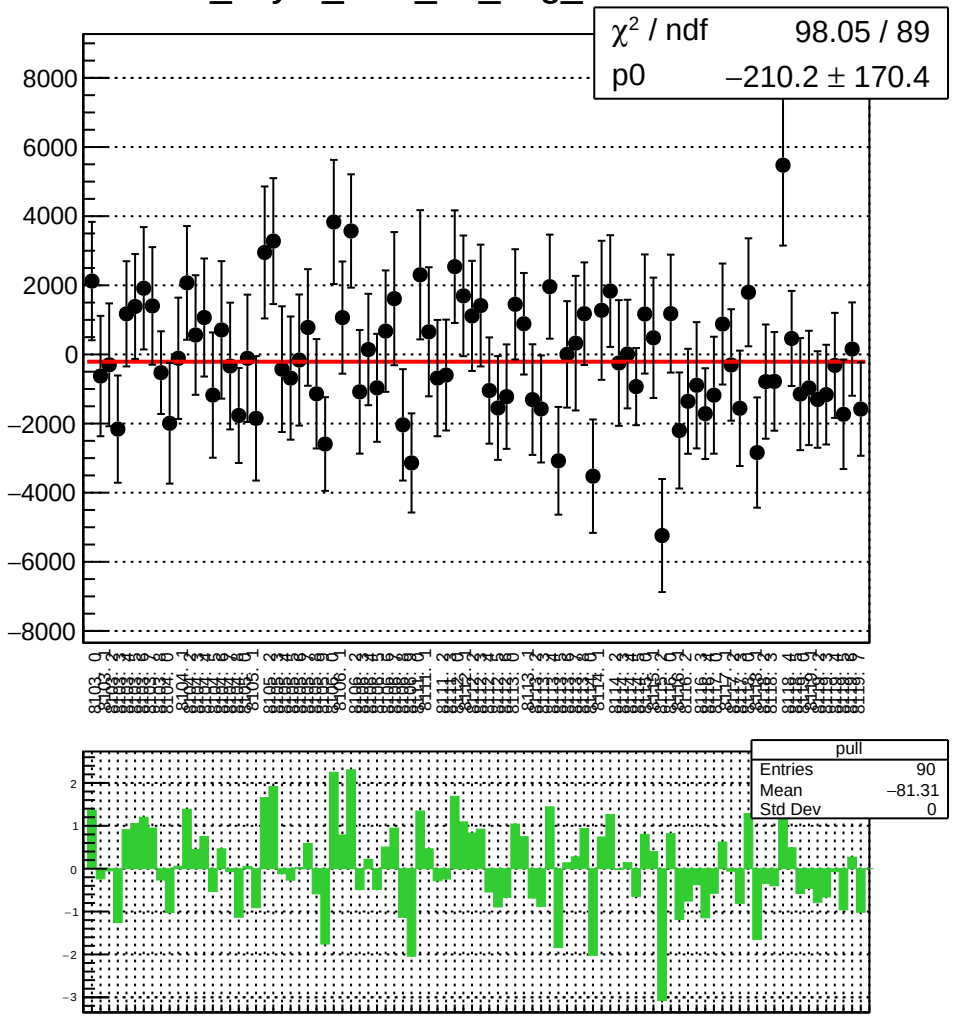

pull1D
Entries 90
Mean 0.0449
Std Dev 1.043

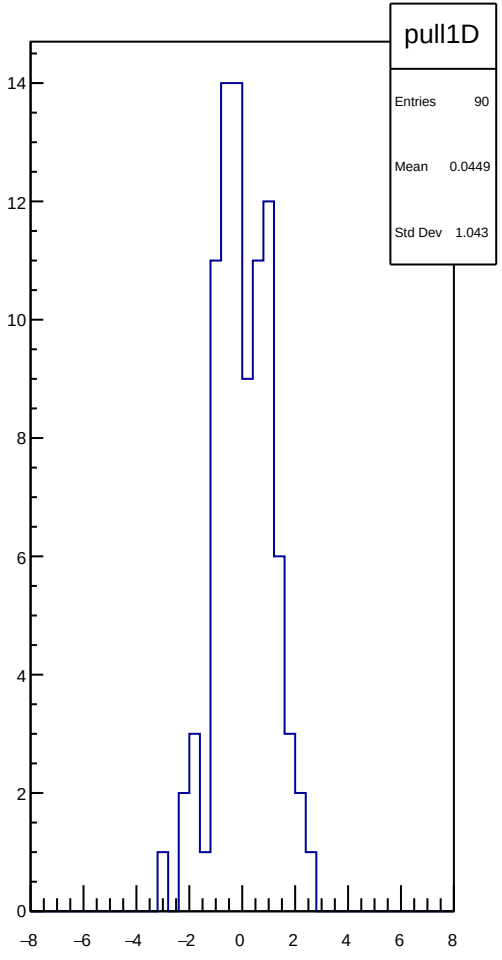

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.567e+04 / 89
p0 159.1 ± 0.1205
220
200
180
160
140
120

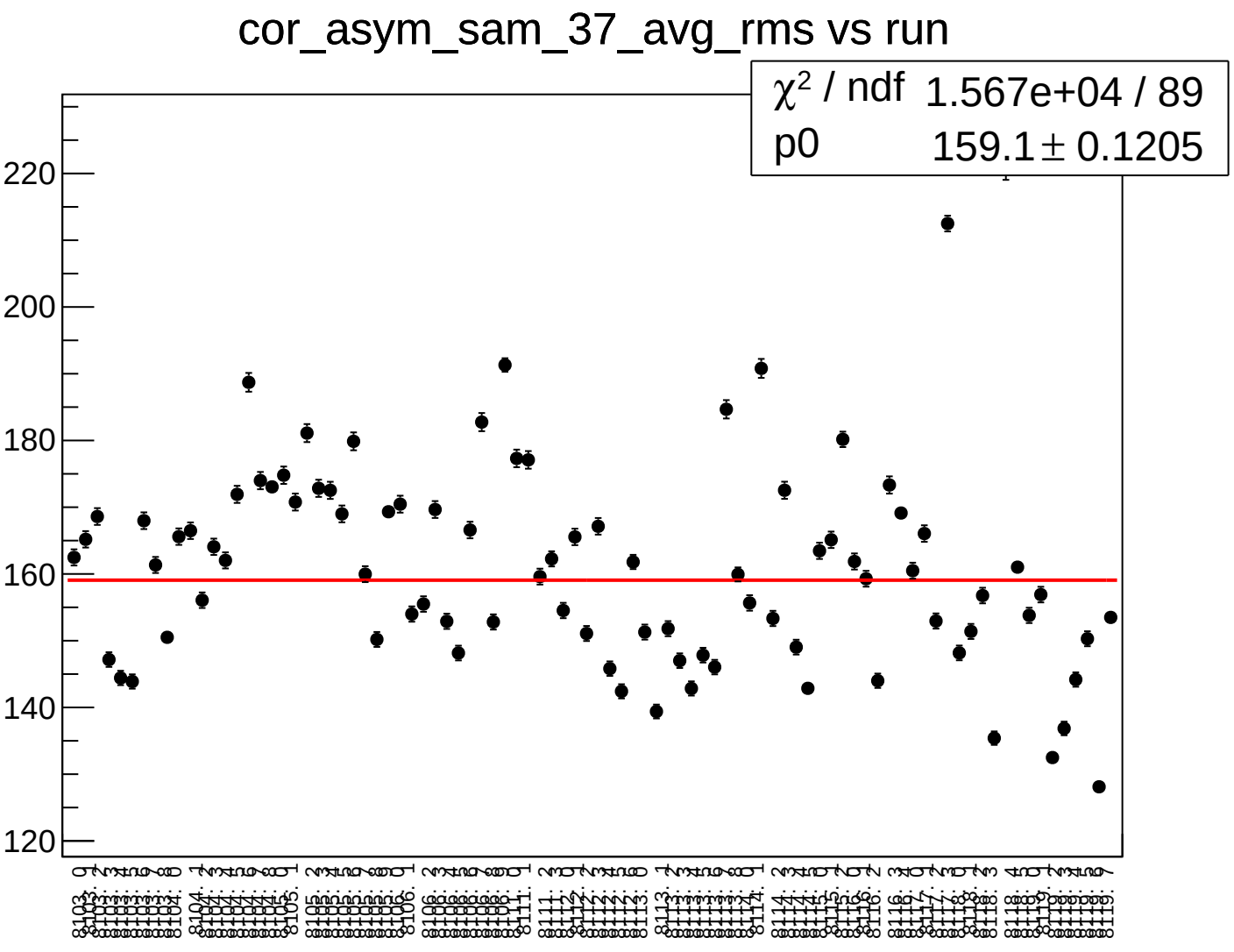

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 90.19 / 89
p0 −4512 ± 1894
pull
Entries 90
Mean −5865
Std Dev 0

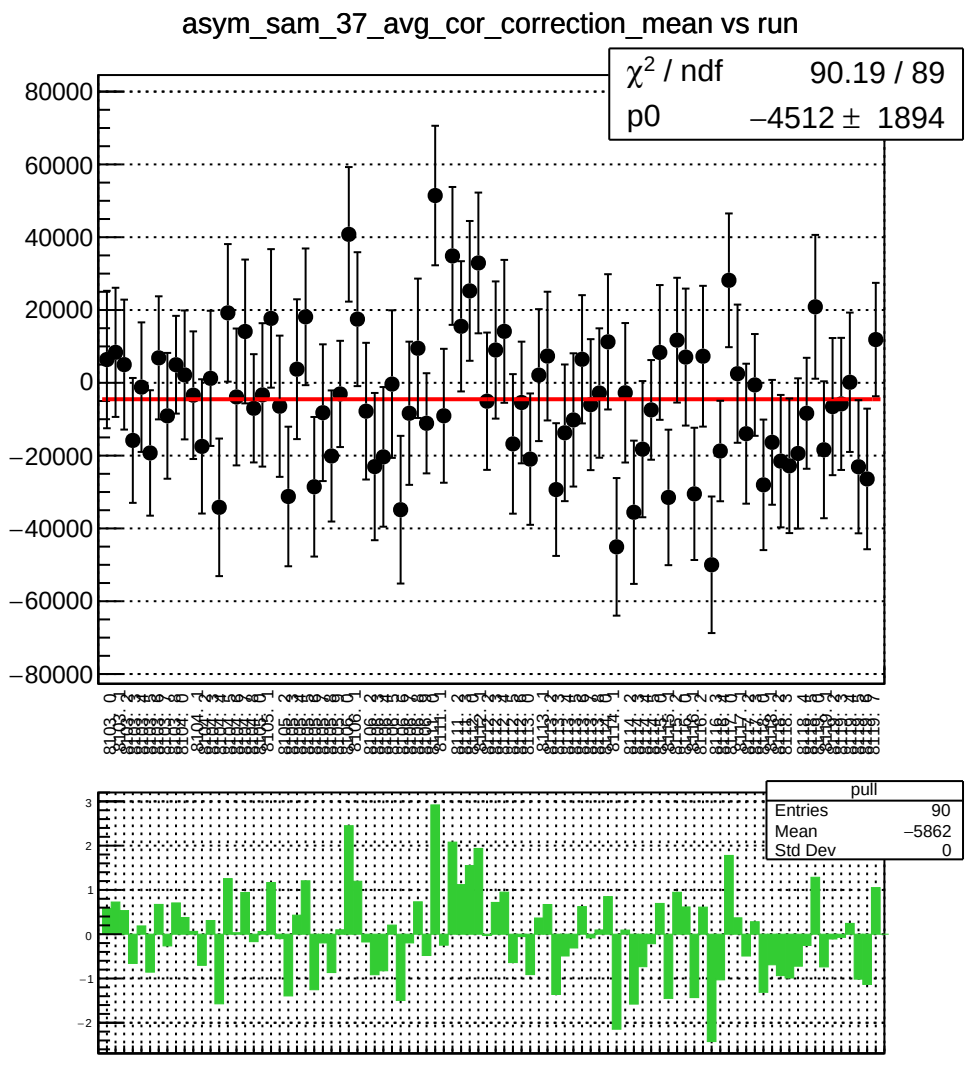

pull1D
Entries 90
Mean 0.0007924
Std Dev 1.001

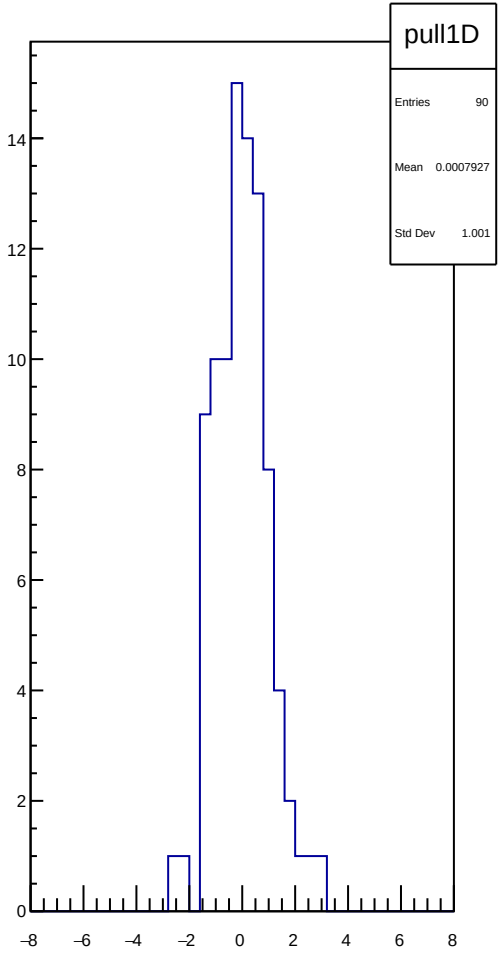

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2832 / 89
p0 1775 ± 1.339
2000
1950
1900
1850
1800
1750
1700
1650
1600

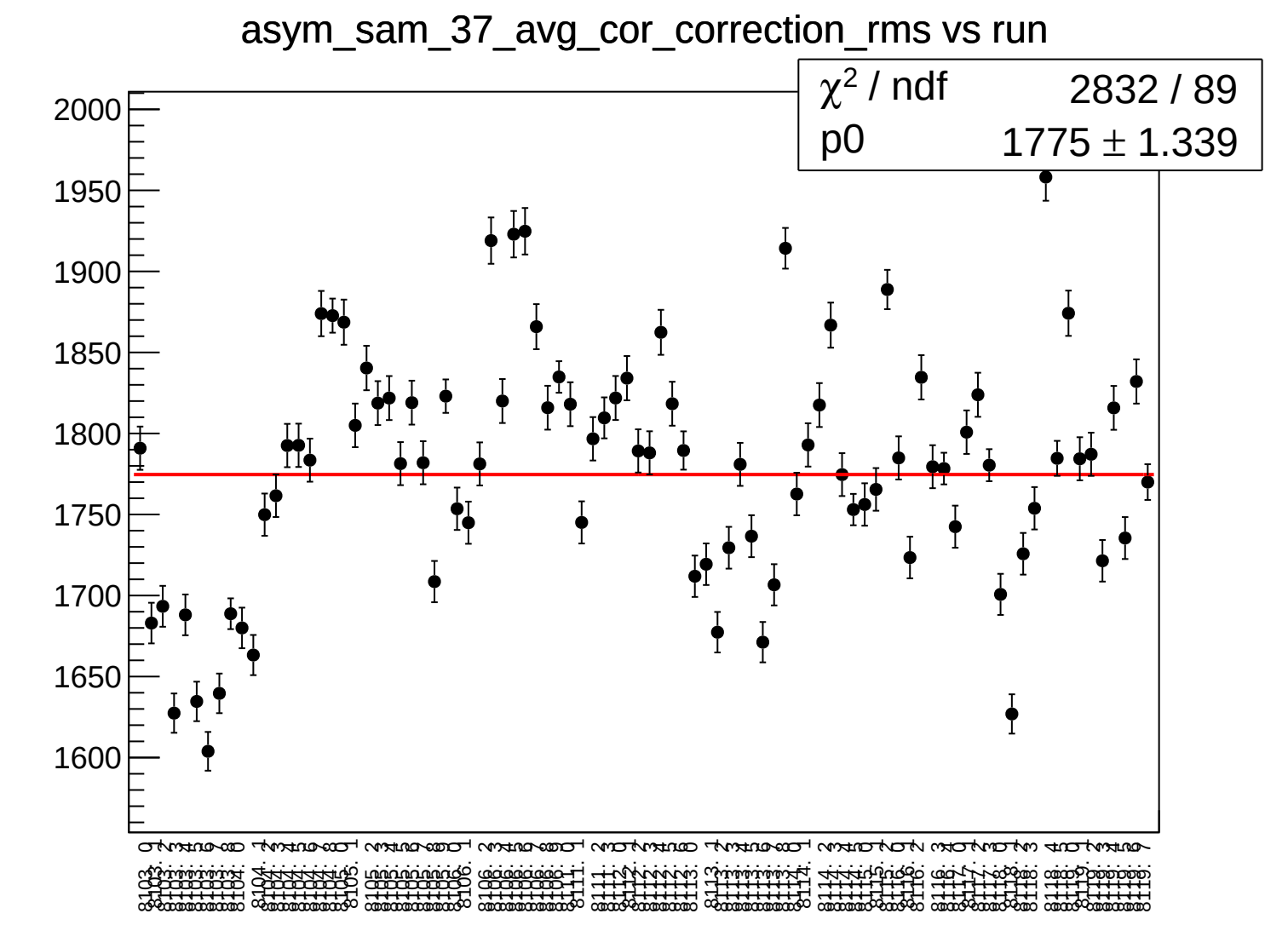

cor_asym_sam_37_avg_mean vs run
χ² / ndf 98.05 / 89
p0 −210.2 ± 170.4
pull
Entries 90
Mean −81.31
Std Dev 0

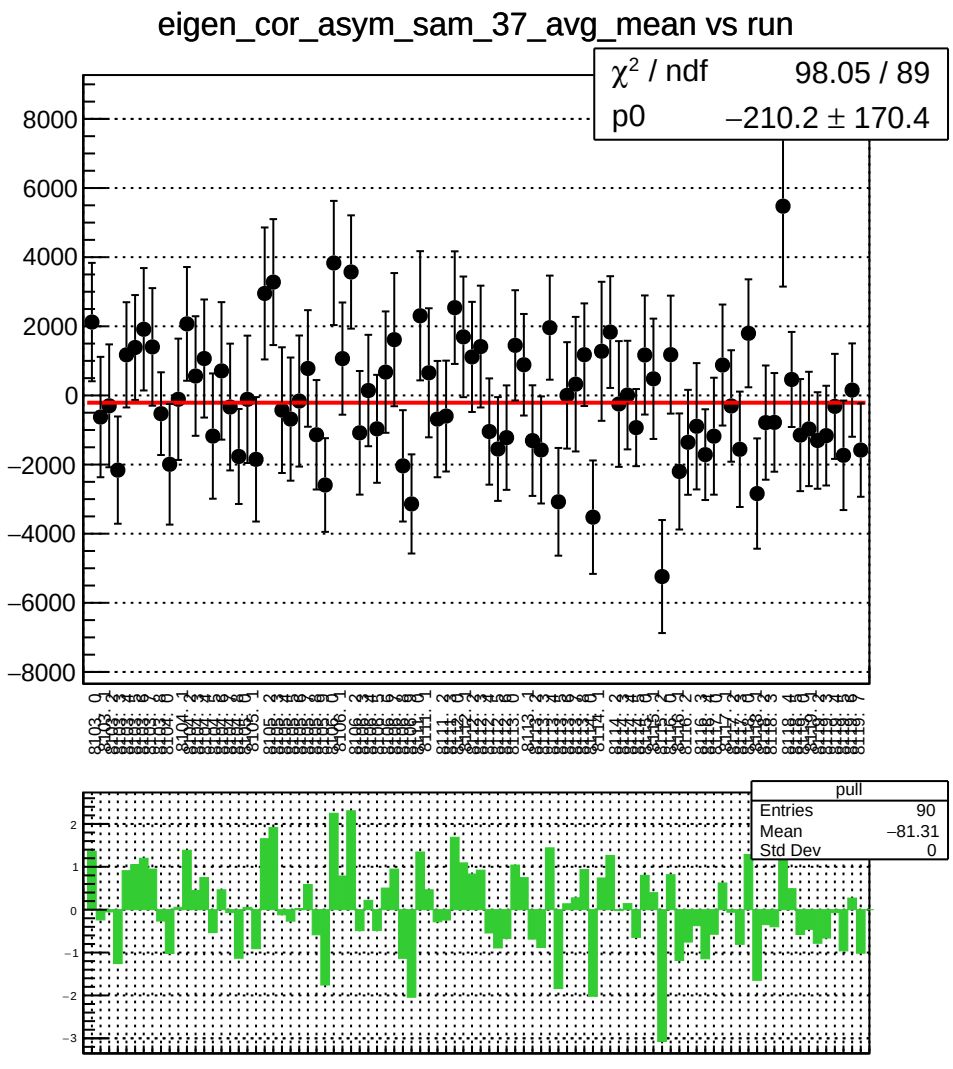

pull1D
Entries 90
Mean 0.0449
Std Dev 1.043

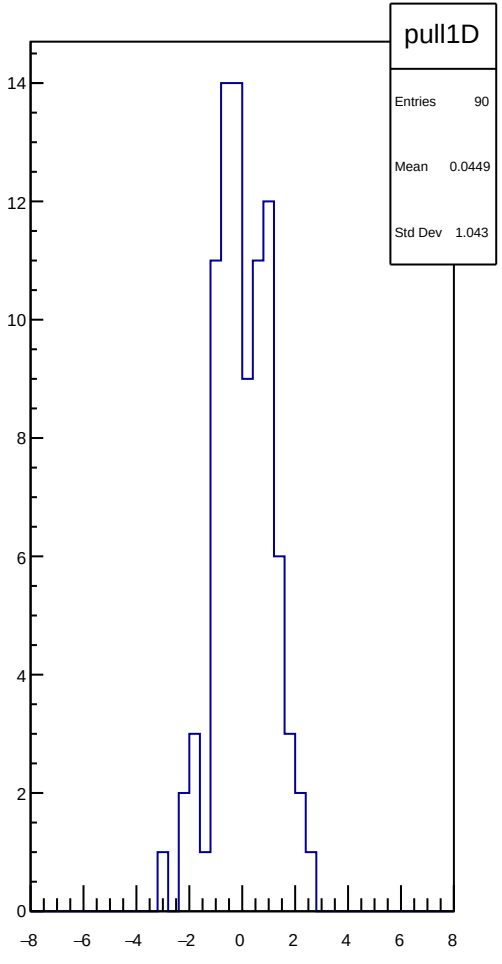

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.567e+04 / 89
p0 159.1 ± 0.1205
220
200
180
160
140
120

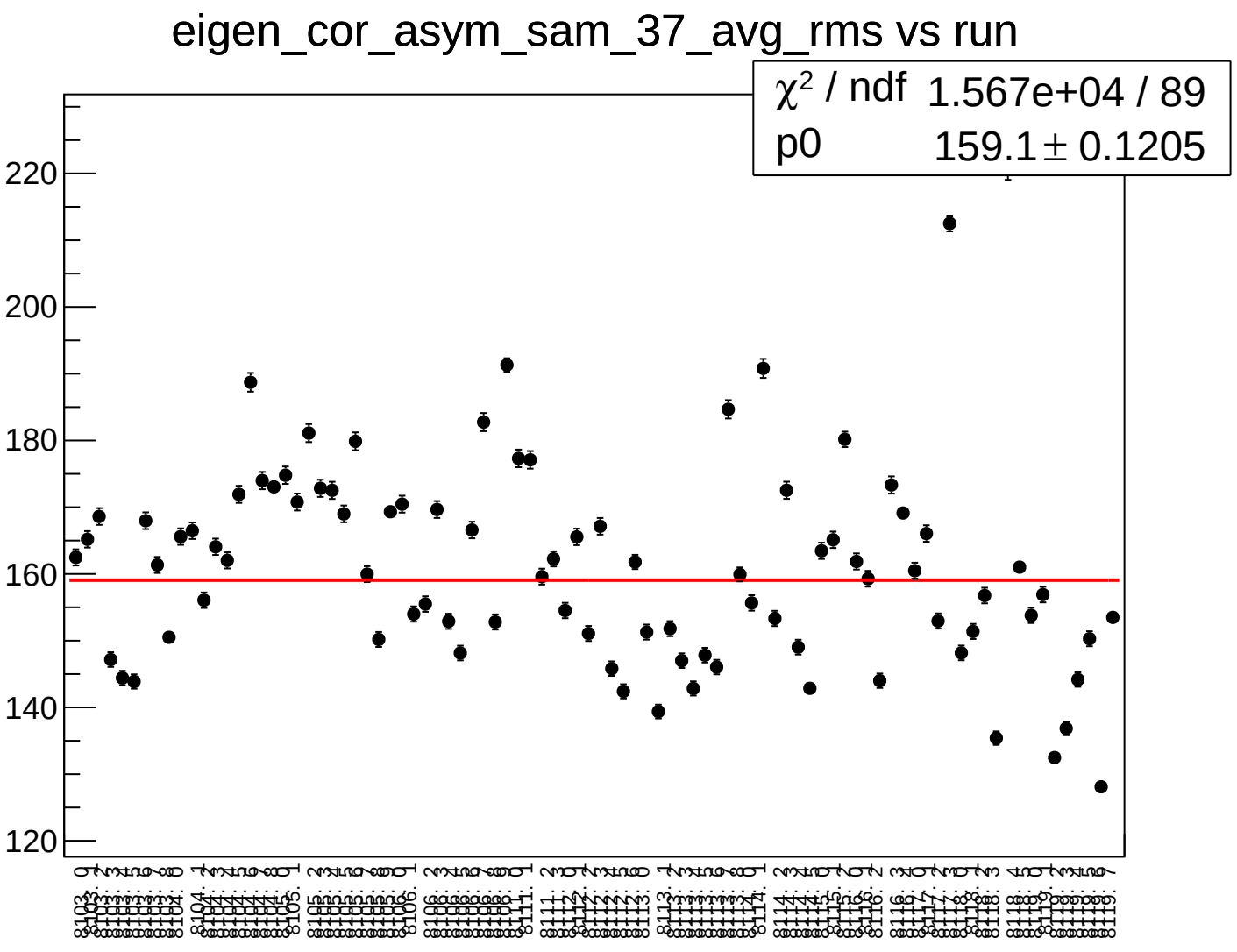

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 90.19 / 89
p0 −4512 ± 1894
pull
Entries 90
Mean −5862
Std Dev 0

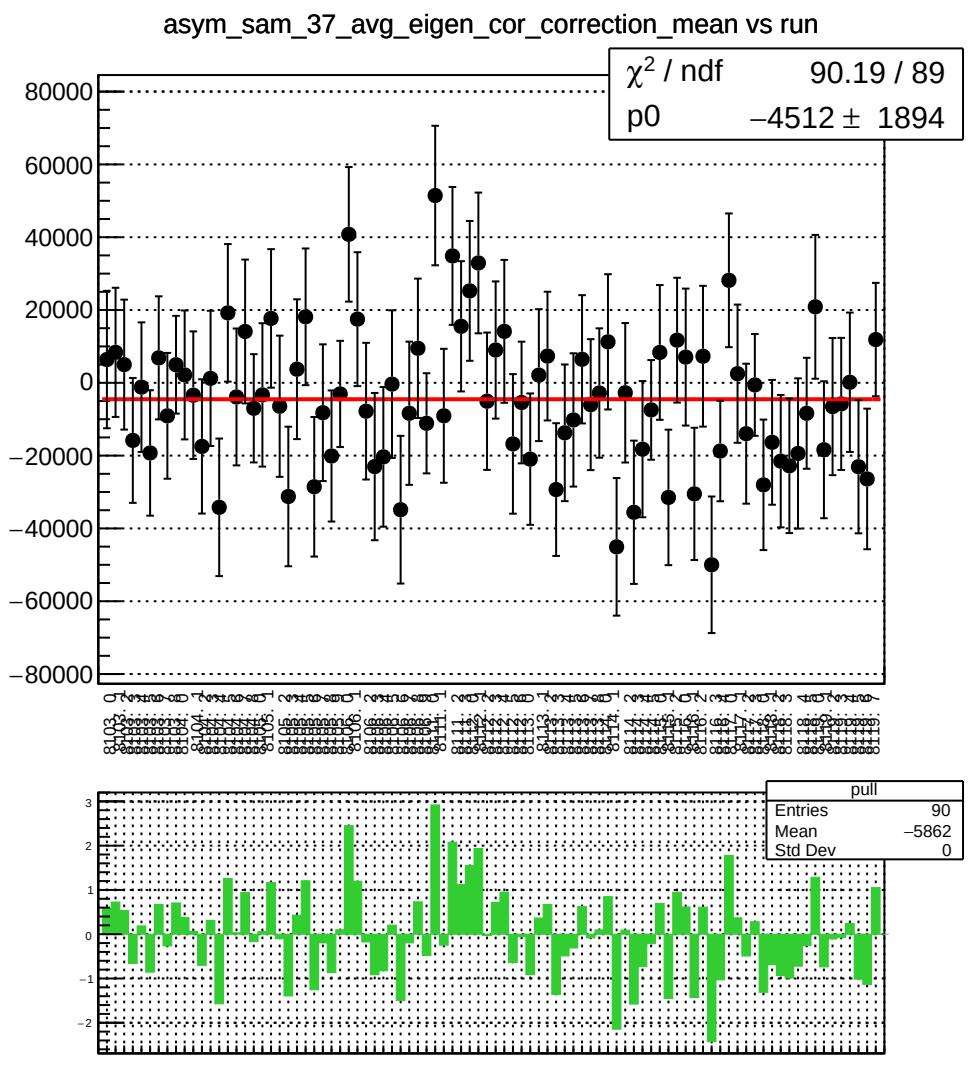

pull1D
Entries 90
Mean 0.0007927
Std Dev 1.001

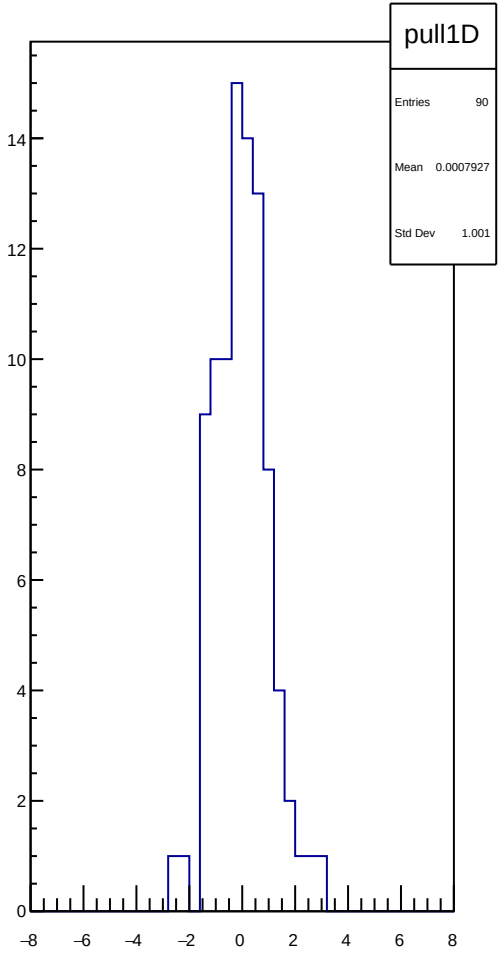

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2832 / 89
p0 1775 ± 1.339
2000
1950
1900
1850
1800
1750
1700
1650
1600

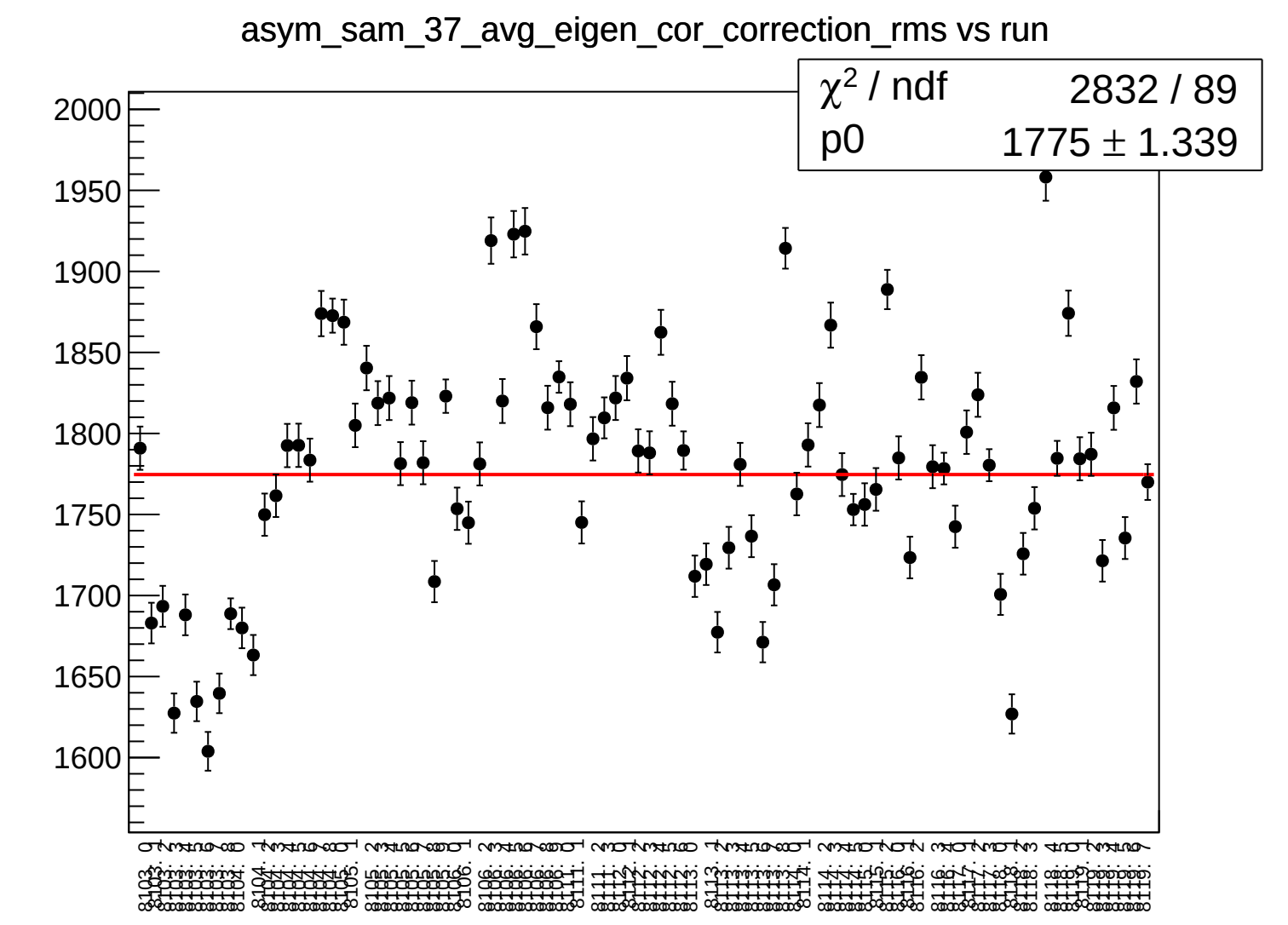

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 98.05 / 89
p0 −210.2 ± 170.4
pull
Entries 90
Mean −81.31
Std Dev 0

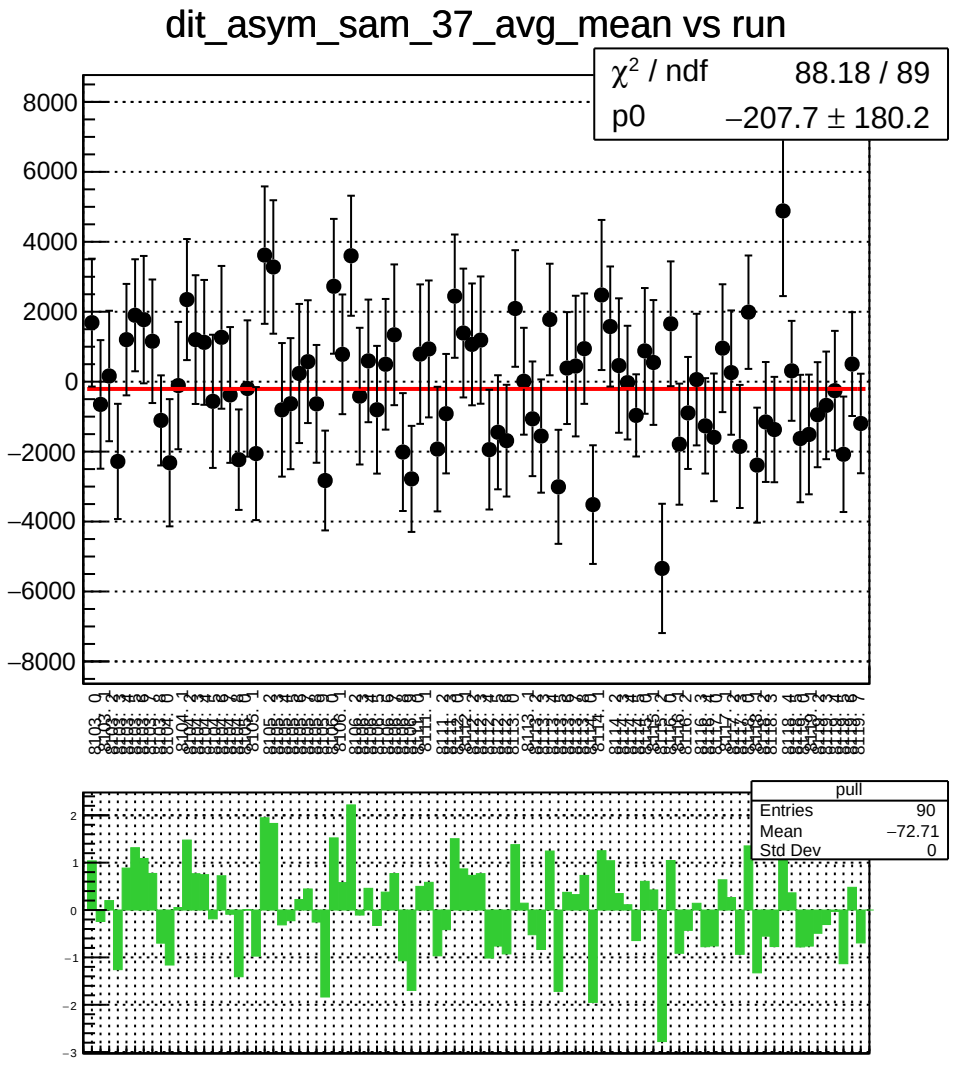

pull1D
Entries 90
Mean 0.0449
Std Dev 1.043

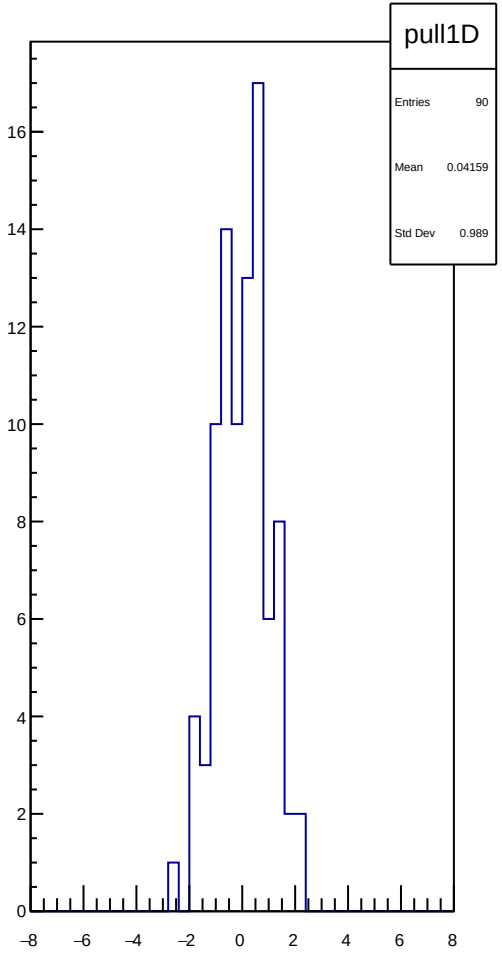

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.567e+04 / 89
p0 159.1 ± 0.1205
220
200
180
160
140
120

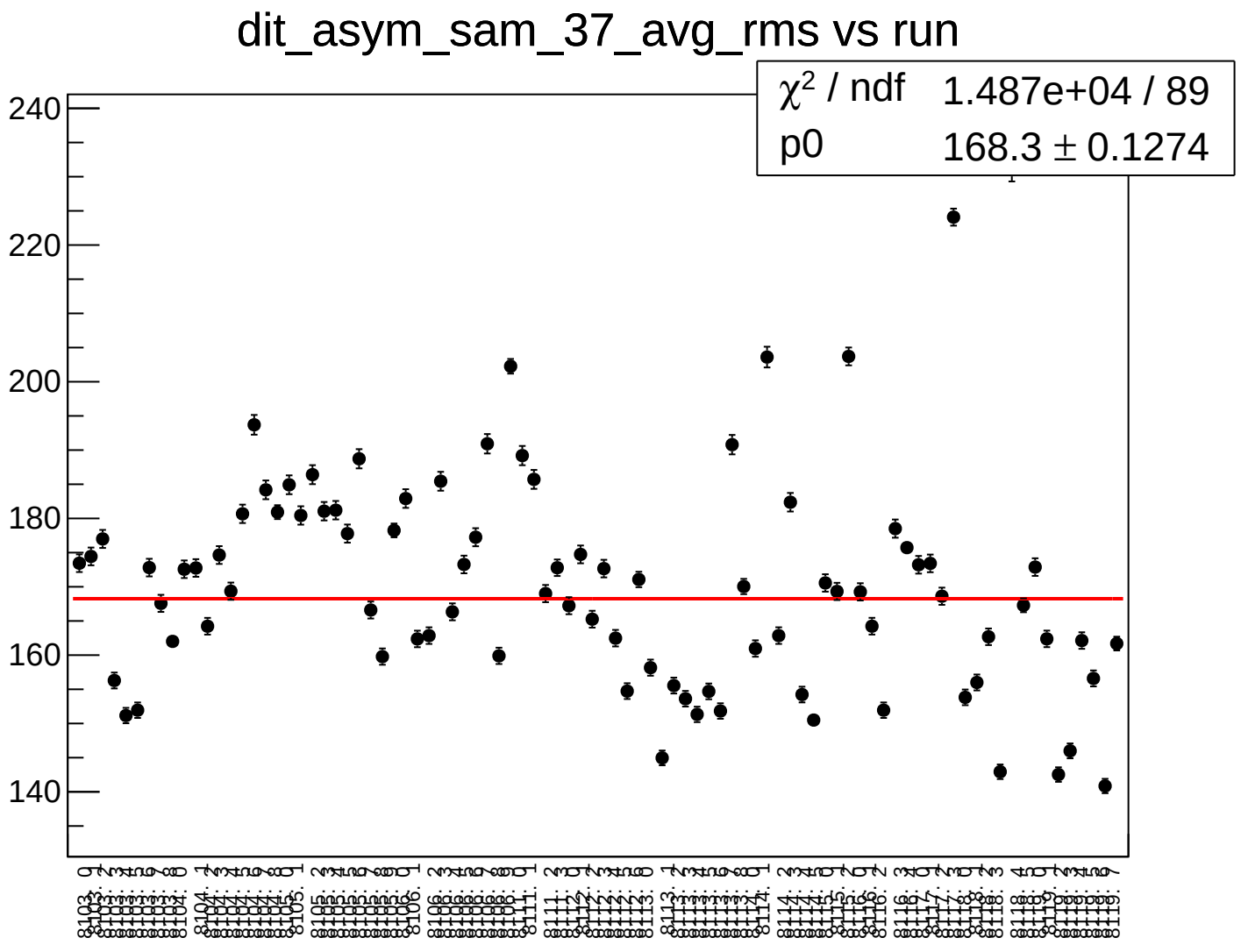

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.19 / 89
p0 −4512 ± 1894
pull
Entries 90
Mean −5862
Std Dev 0

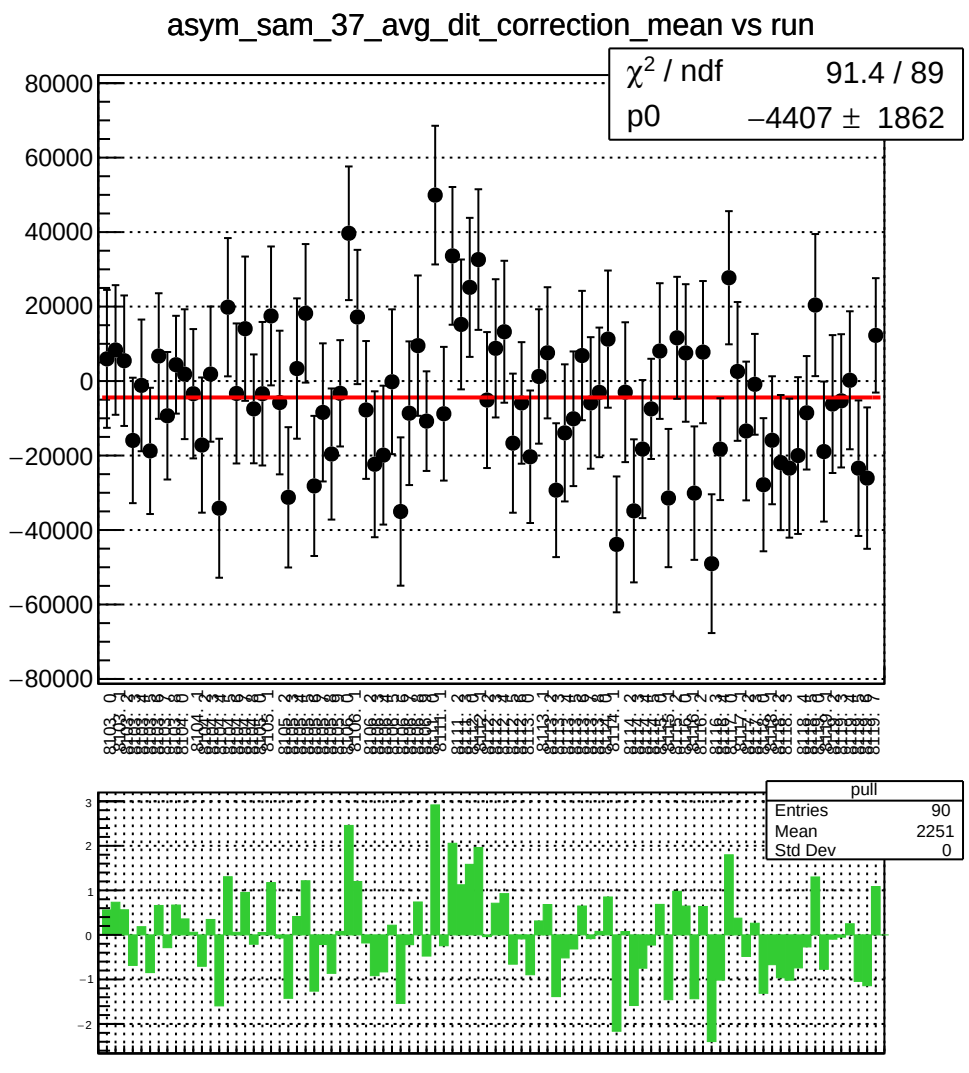

pull1D
Entries 90
Mean 0.0007927
Std Dev 1.001

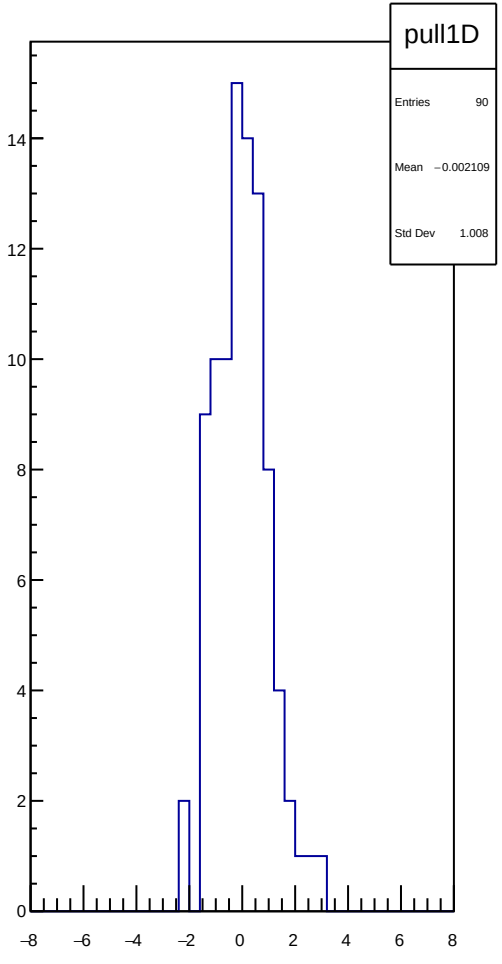

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2832 / 89
p0 1775 ± 1.339
2000
1950
1900
1850
1800
1750
1700
1650
1600

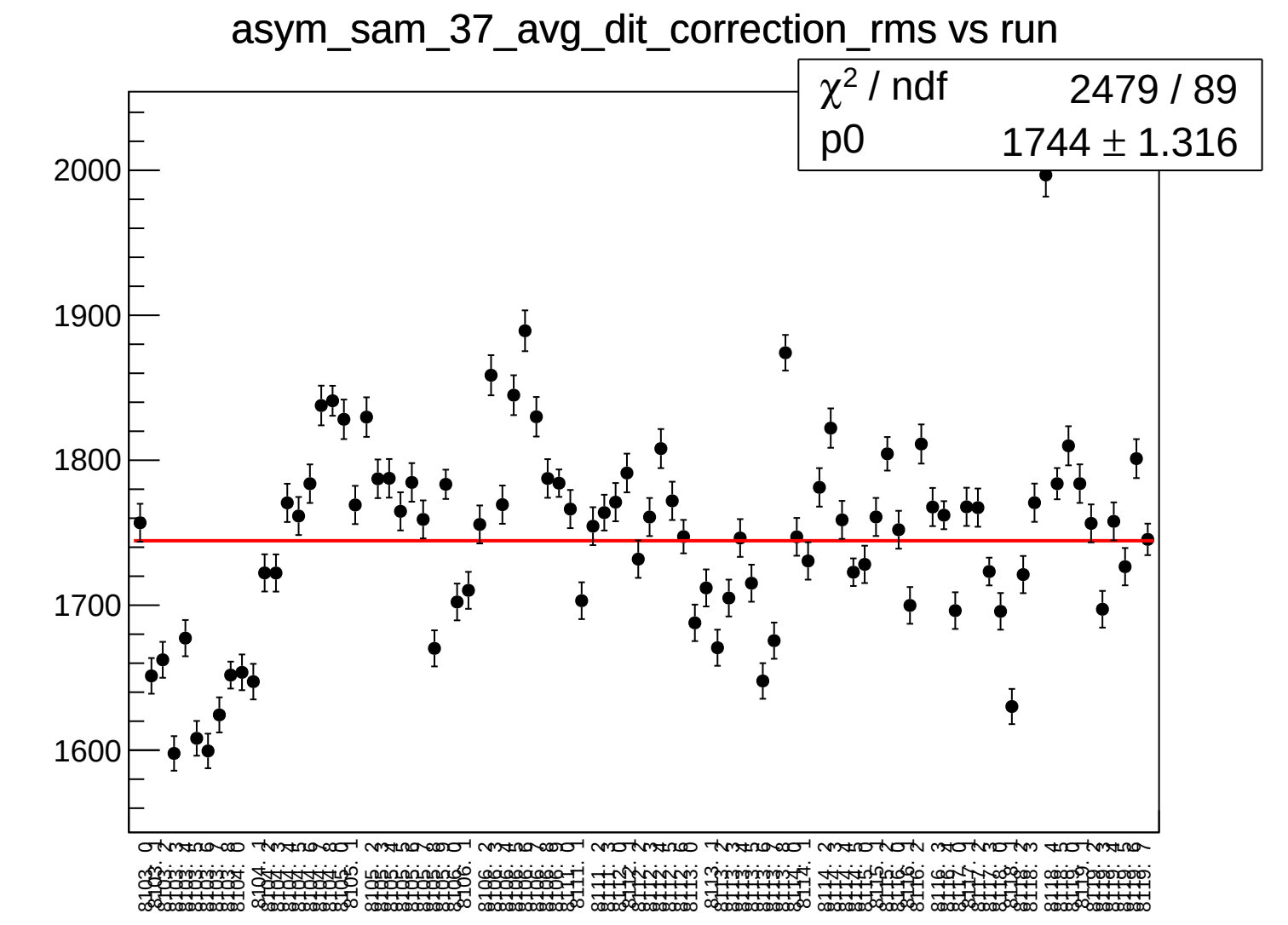

dit_asym_sam_37_avg_mean vs run
χ² / ndf 88.18 / 89
p0 −207.7 ± 180.2
pull
Entries 90
Mean −72.71
Std Dev 0

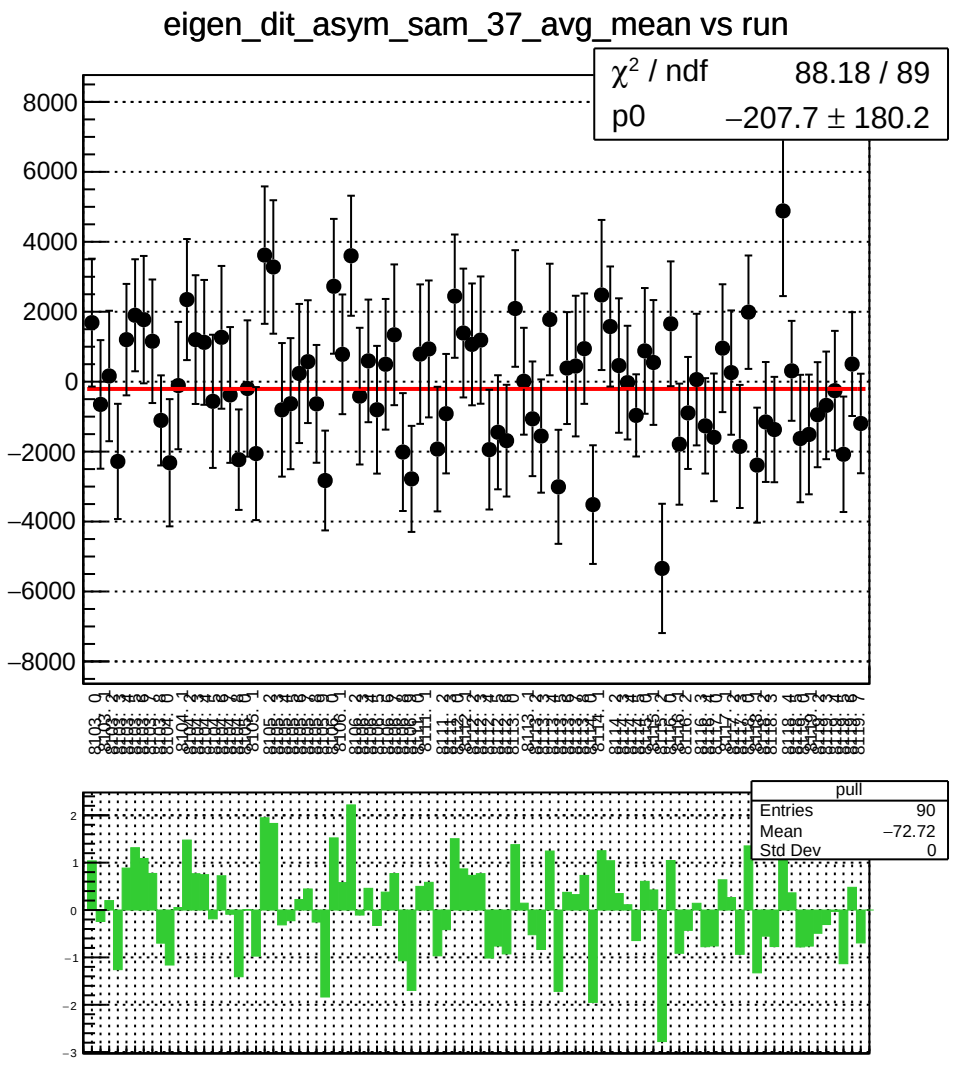

pull1D
Entries 90
Mean 0.04159
Std Dev 0.989

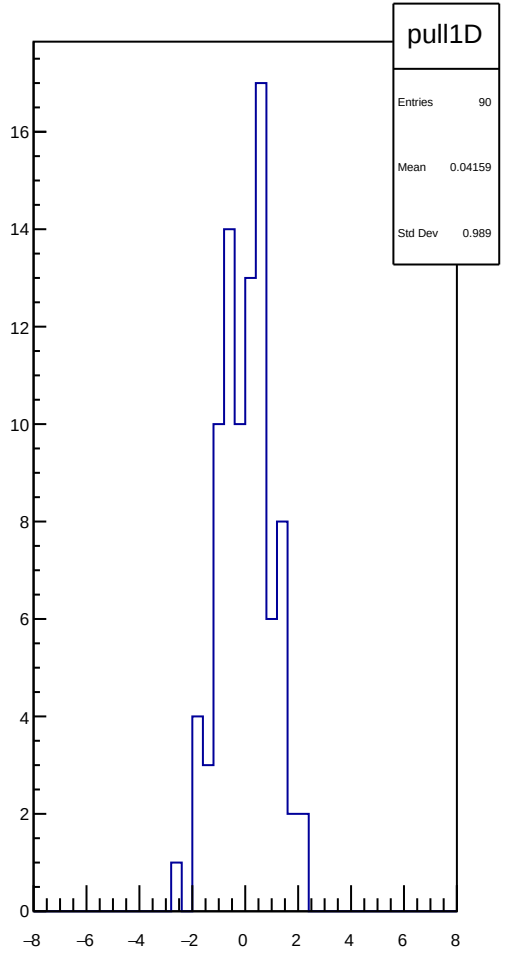

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.487e+04 / 89
p0 168.3 ± 0.1274
240
220
200
180
160
140

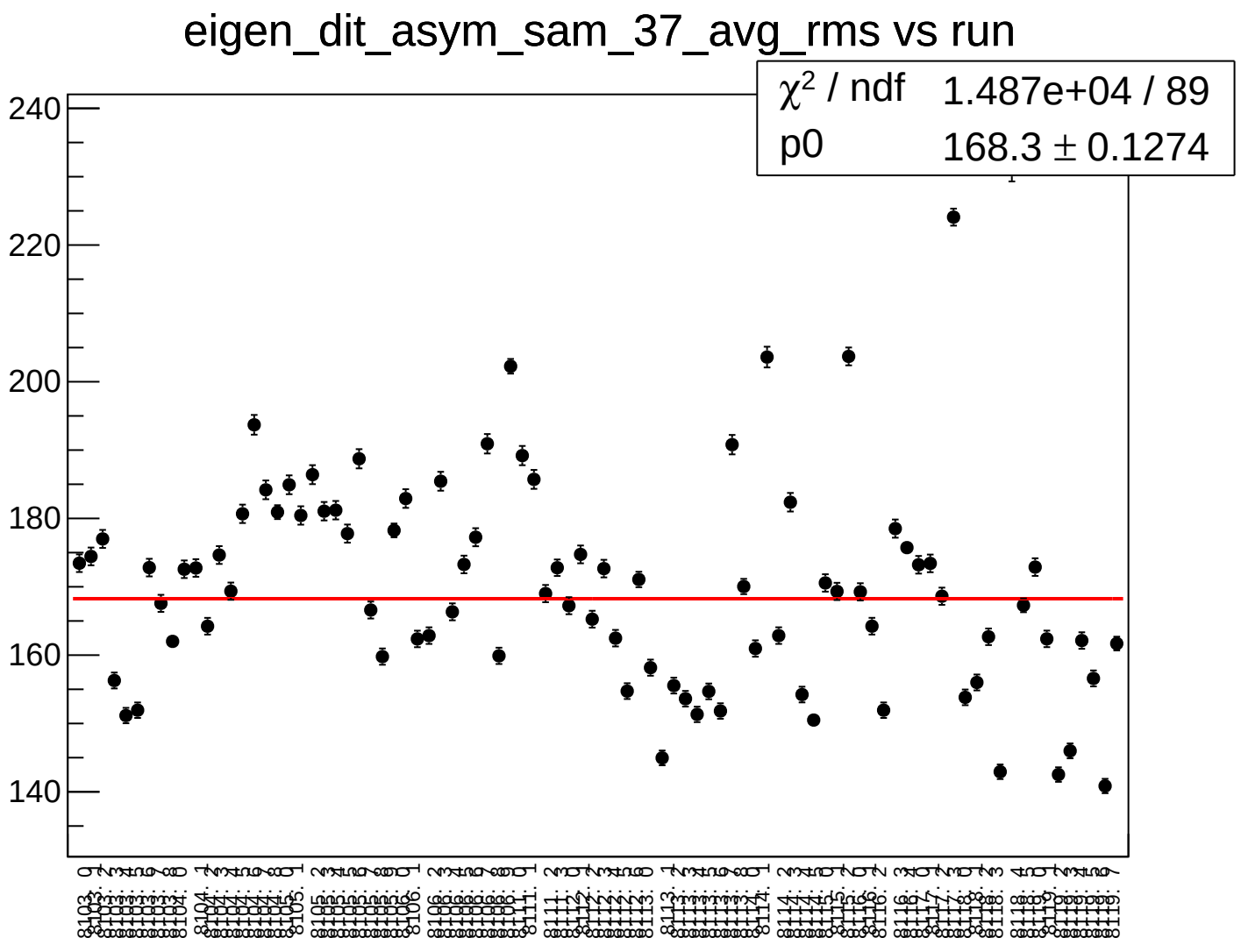

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 91.4 / 89
p0 −4407 ± 1862
pull
Entries 90
Mean 2251
Std Dev 0

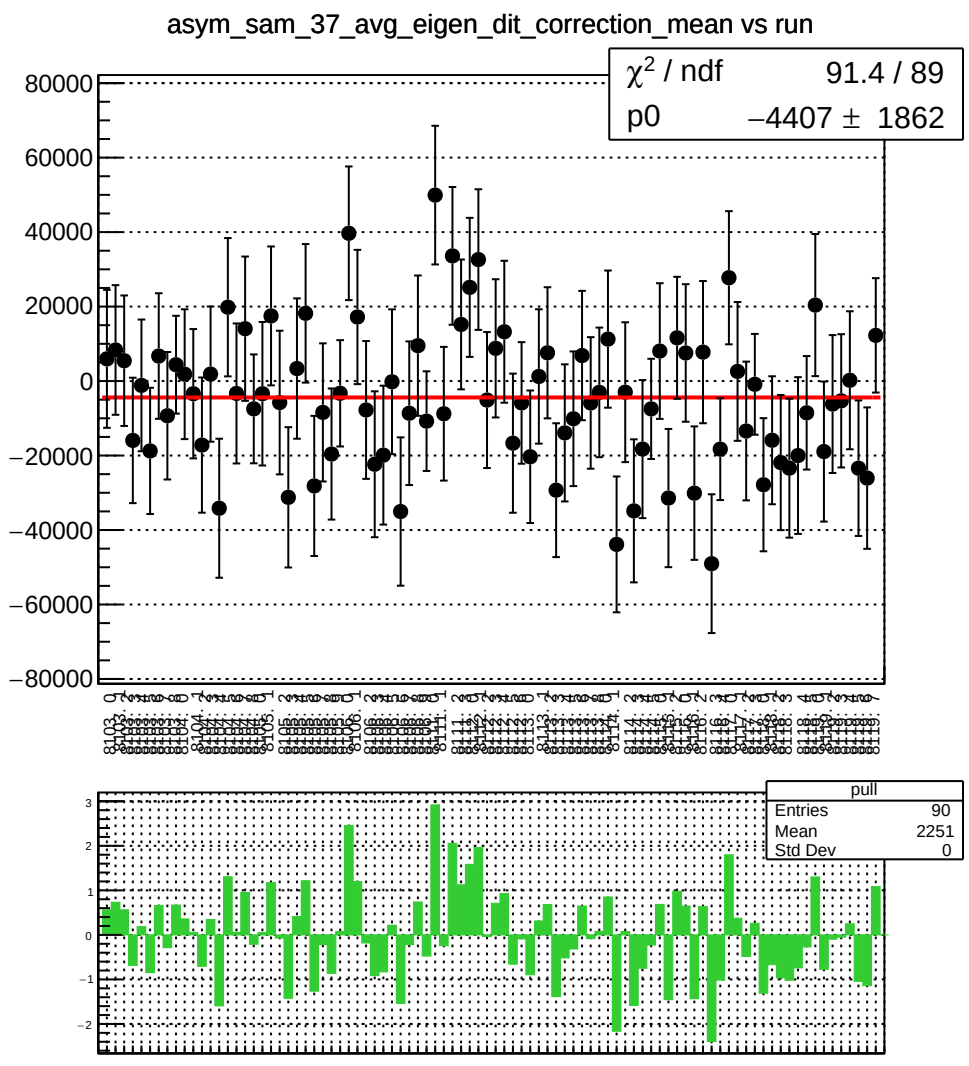

pull1D
Entries 90
Mean −0.002109
Std Dev 1.008

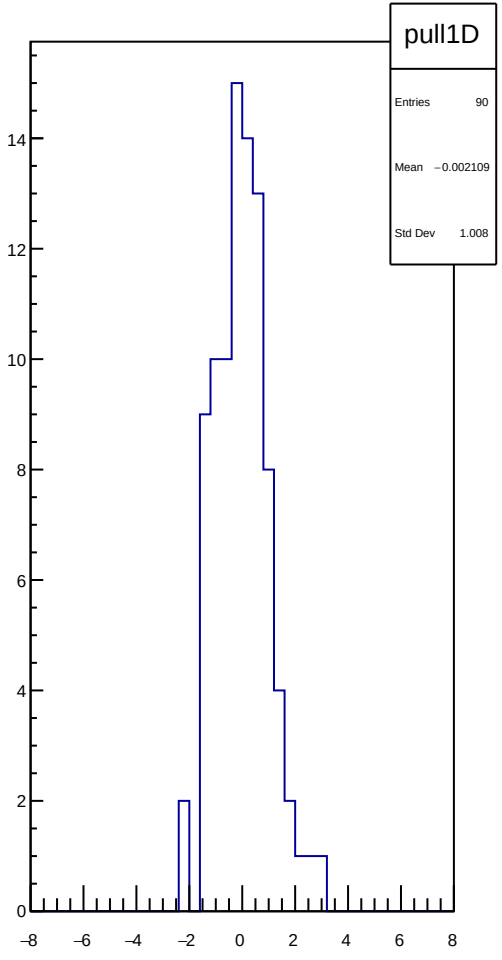

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2479 / 89
p0 1744 ± 1.316
2000
1900
1800
1700
1600

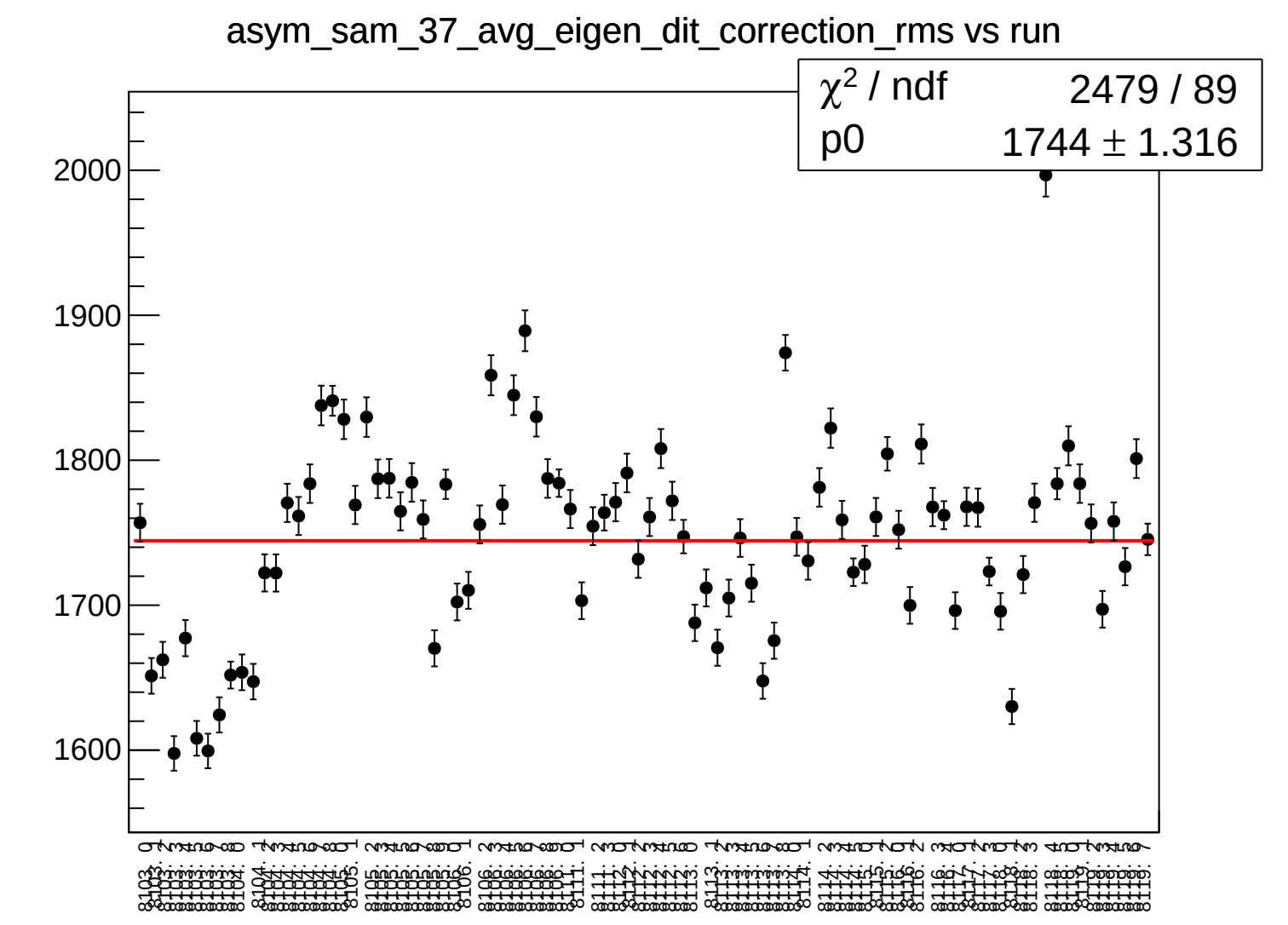

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 88.18 / 89
p0 −207.7 ± 180.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −72.72
Std Dev 0
2
1
0
−1
−2
−3

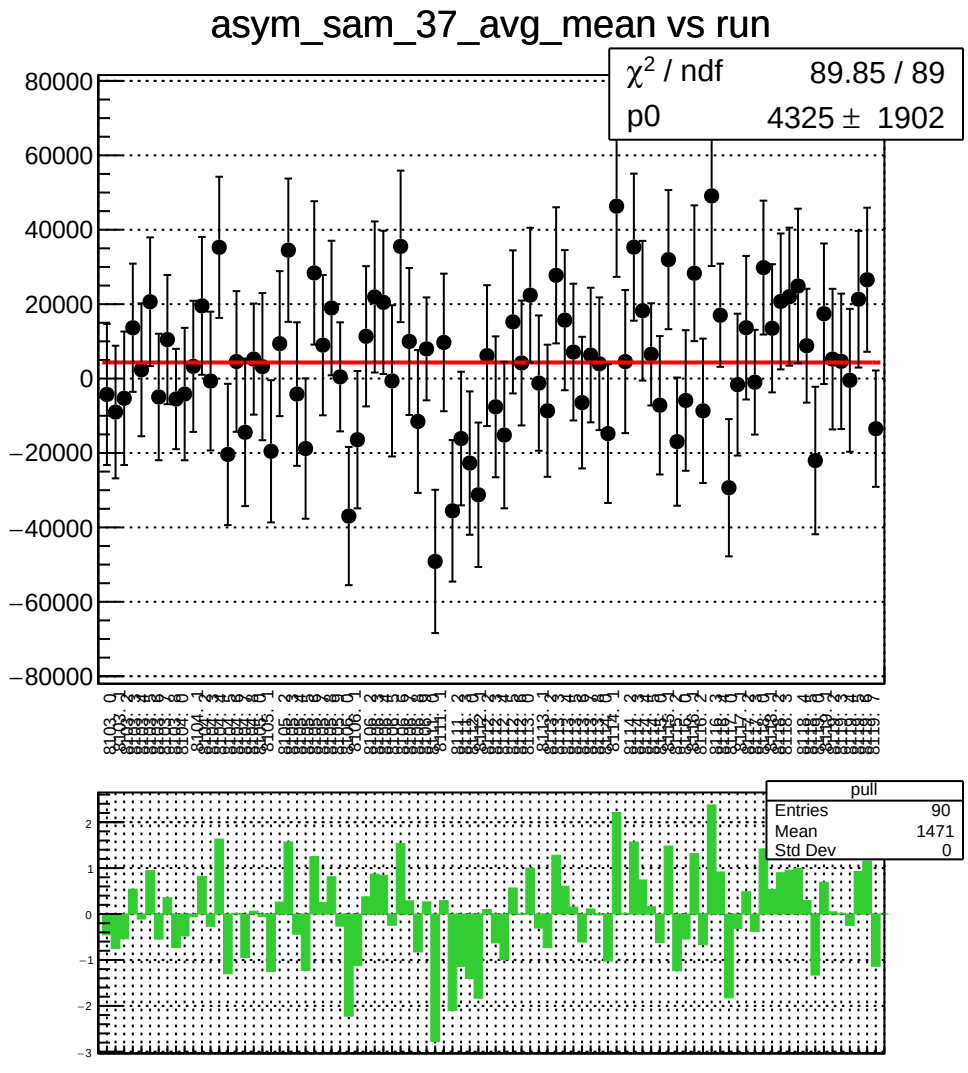

pull1D
Entries 90
Mean 0.04159
Std Dev 0.989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

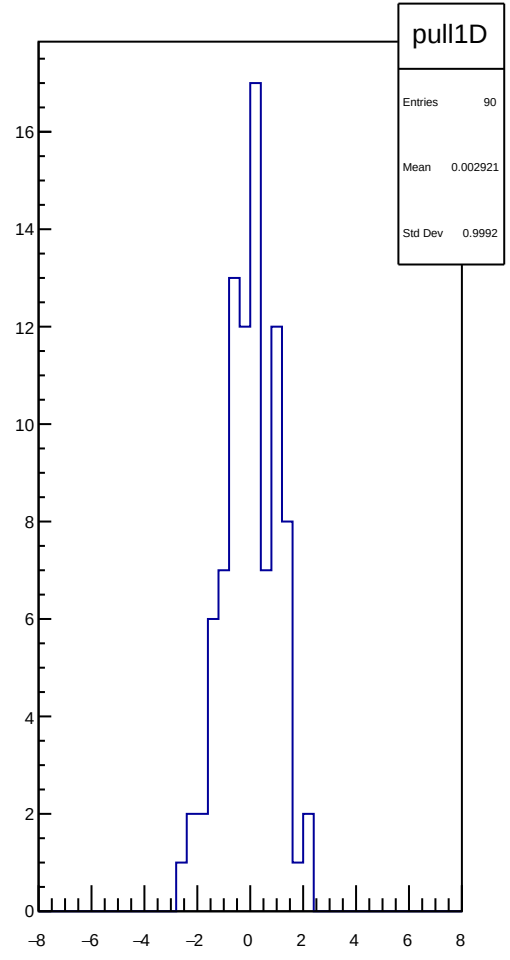

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.487e+04 / 89
p0 168.3 ± 0.1274
240
220
200
180
160
140

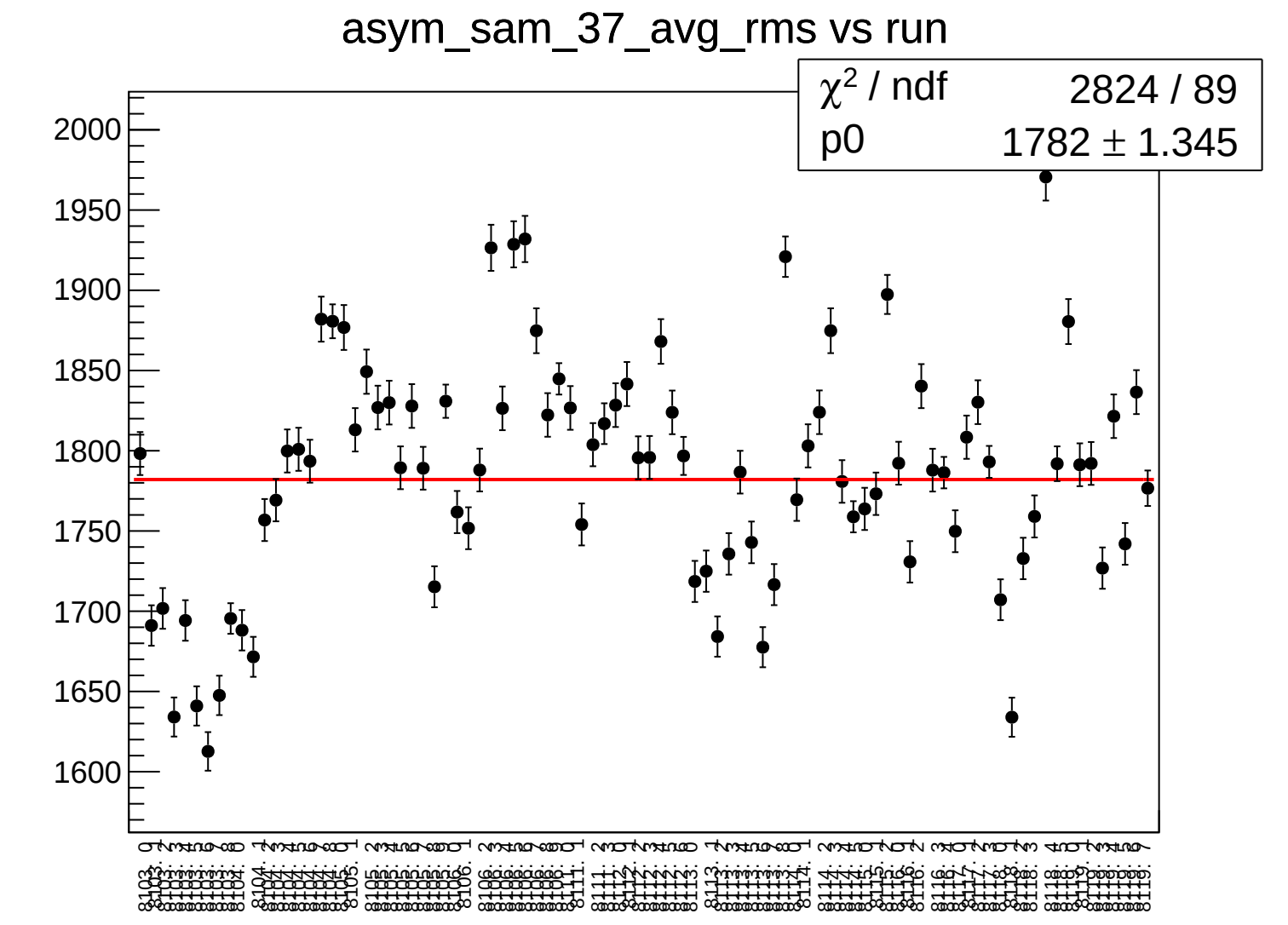

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.4 / 89
p0 −4407 ± 1862
pull
Entries 90
Mean 2251
Std Dev 0

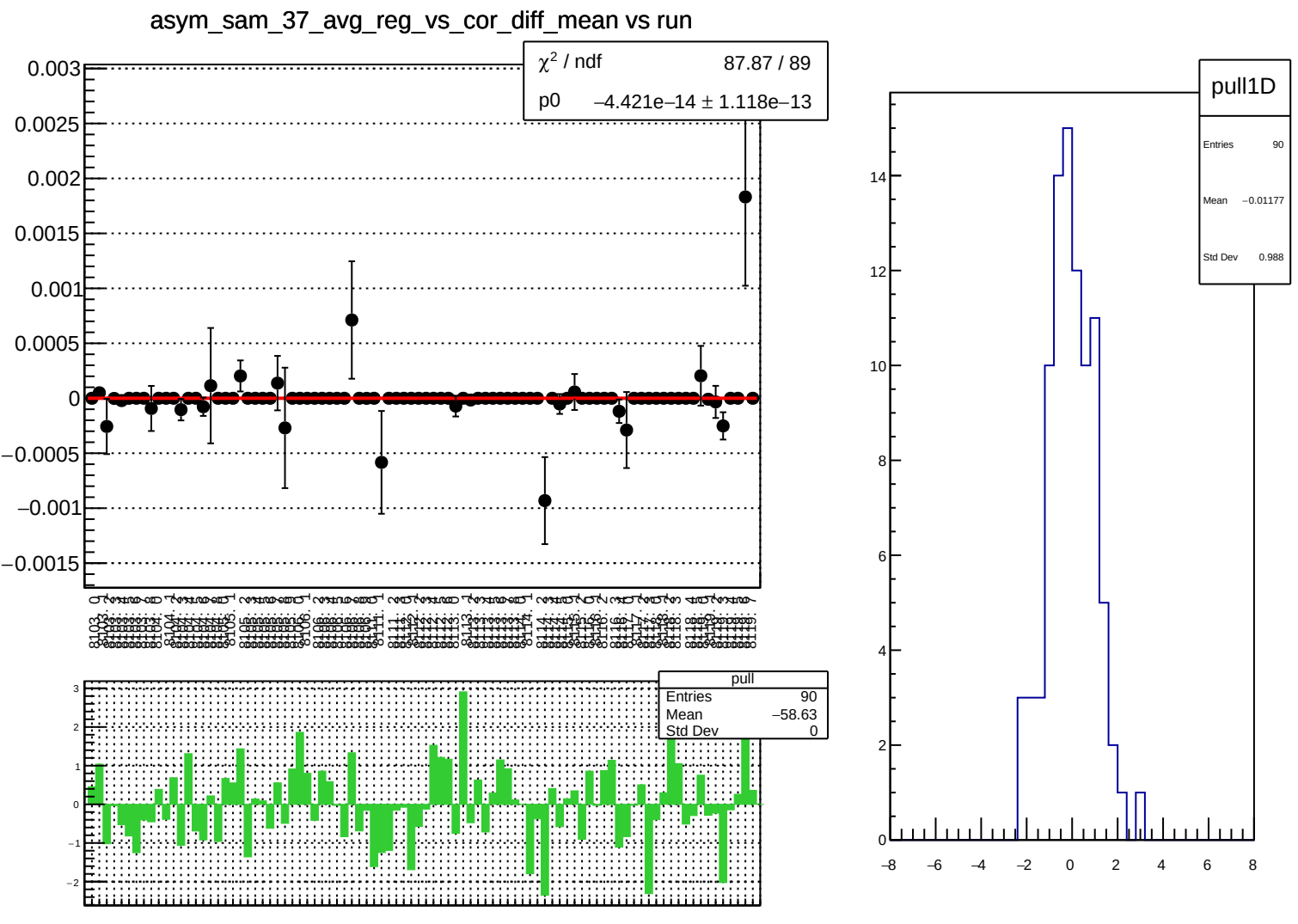

pull1D
Entries 90
Mean −0.002109
Std Dev 1.008

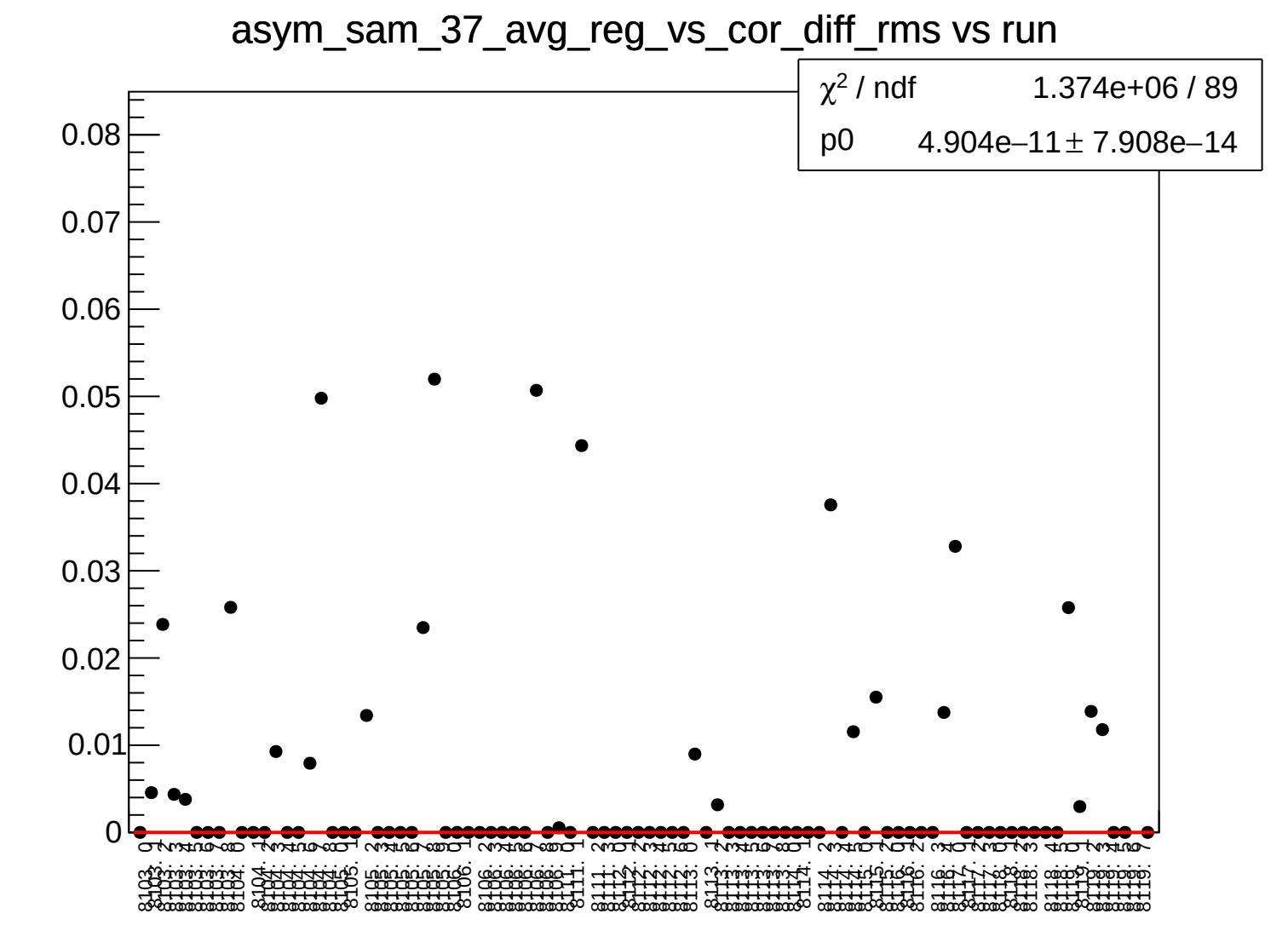

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2479 / 89
p0 1744 ± 1.316
2000
1900
1800
1700
1600

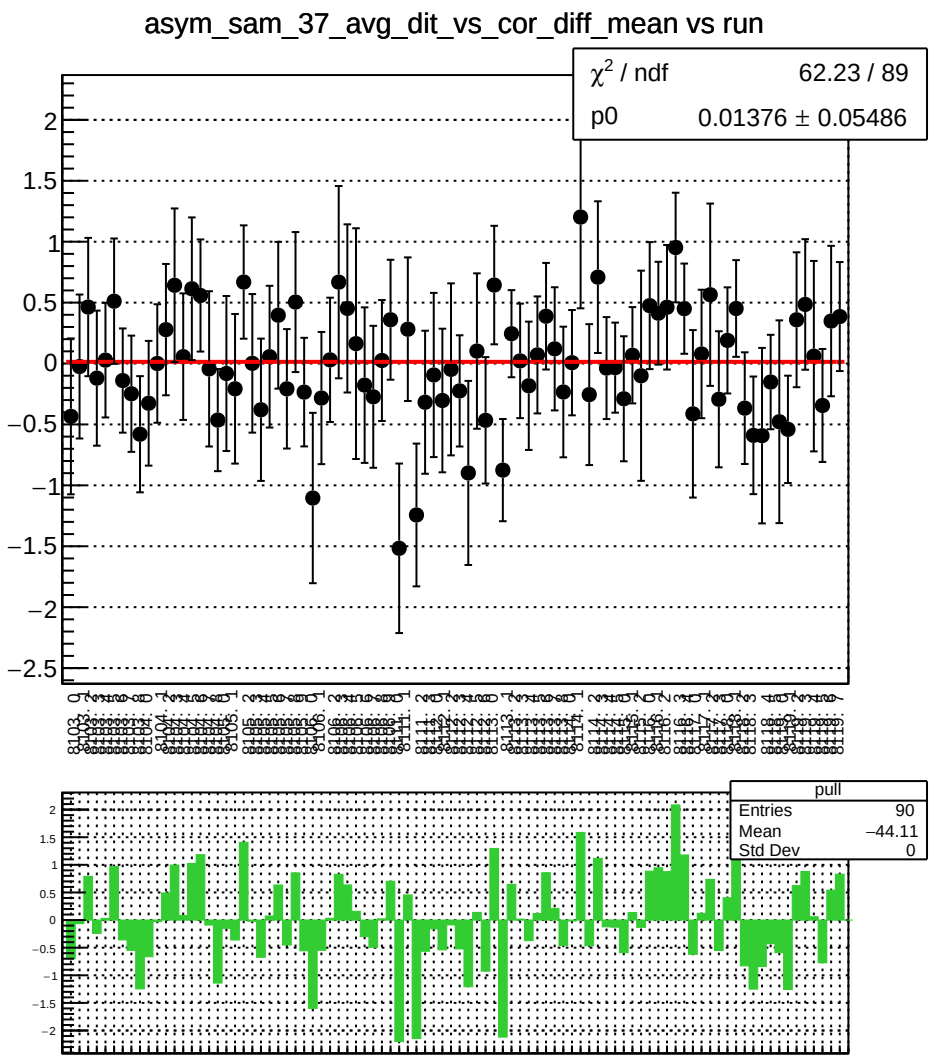

asym_sam_37_avg_mean vs run
χ² / ndf 89.85 / 89
p0 4325 ± 1902
pull
Entries 90
Mean 1471
Std Dev 0

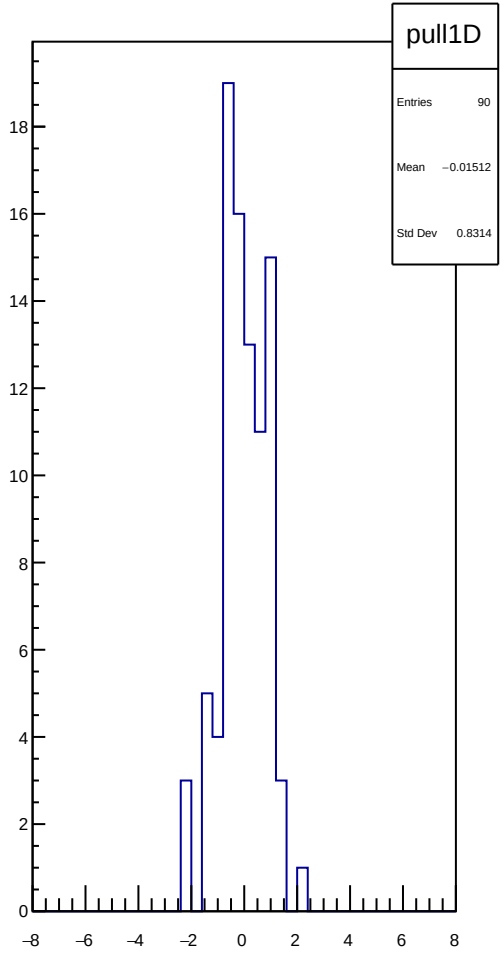

pull1D
Entries 90
Mean 0.002921
Std Dev 0.9992

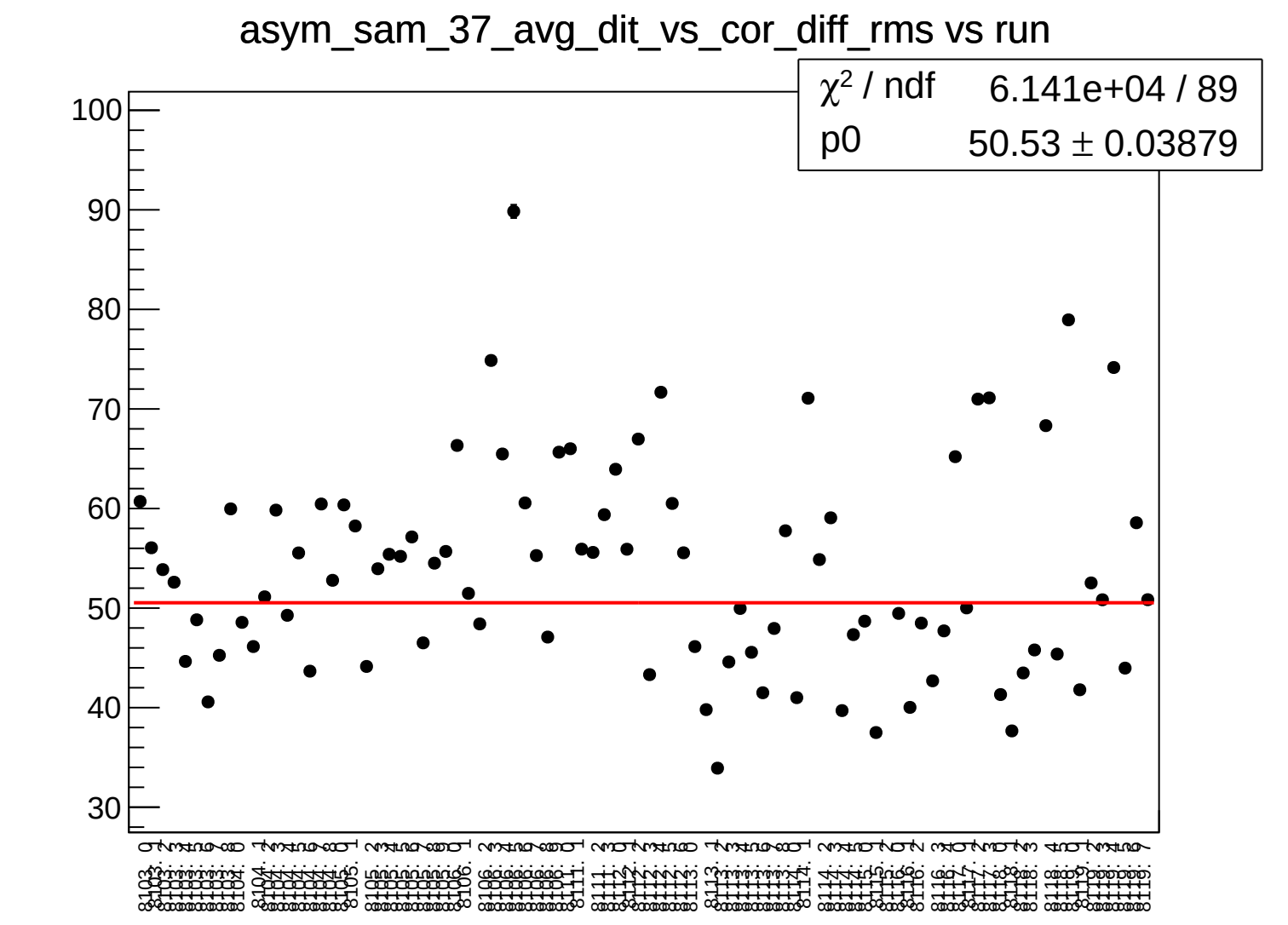

asym_sam_37_avg_rms vs run
χ^2 / ndf 2824 / 89
p0 1782 ± 1.345
2000
1950
1900
1850
1800
1750
1700
1650
1600

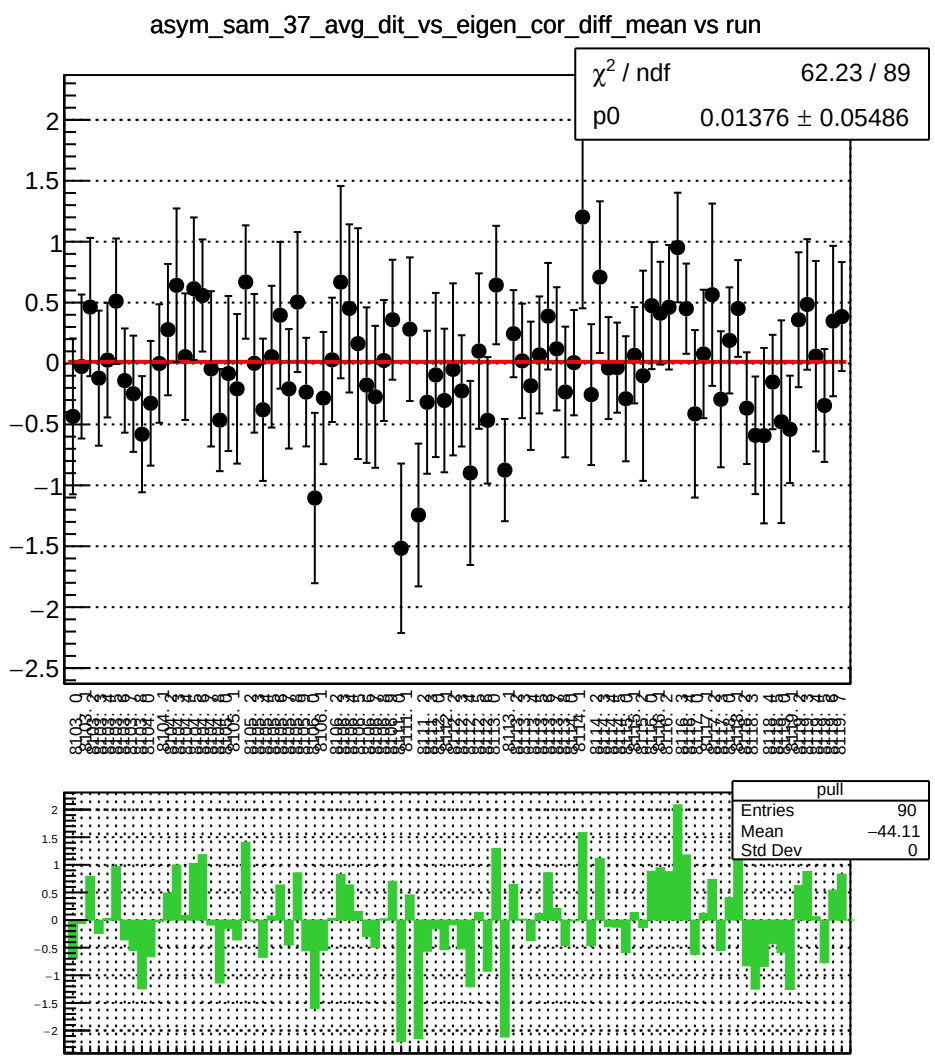

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 89
p0 −4.421e−14 ± 1.118e−13
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 90
Mean −58.63
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.01177
Std Dev 0.988
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

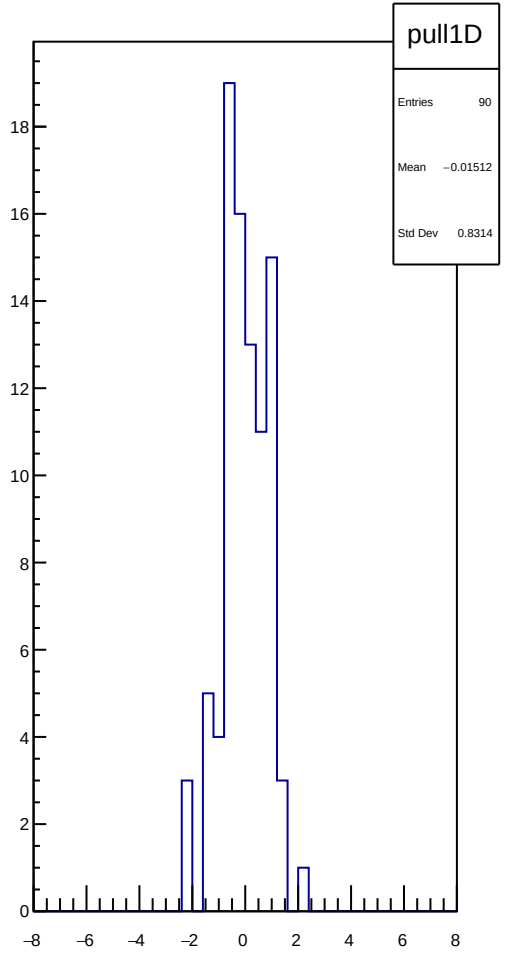

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.374e+06 / 89
p0 4.904e−11 ± 7.908e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

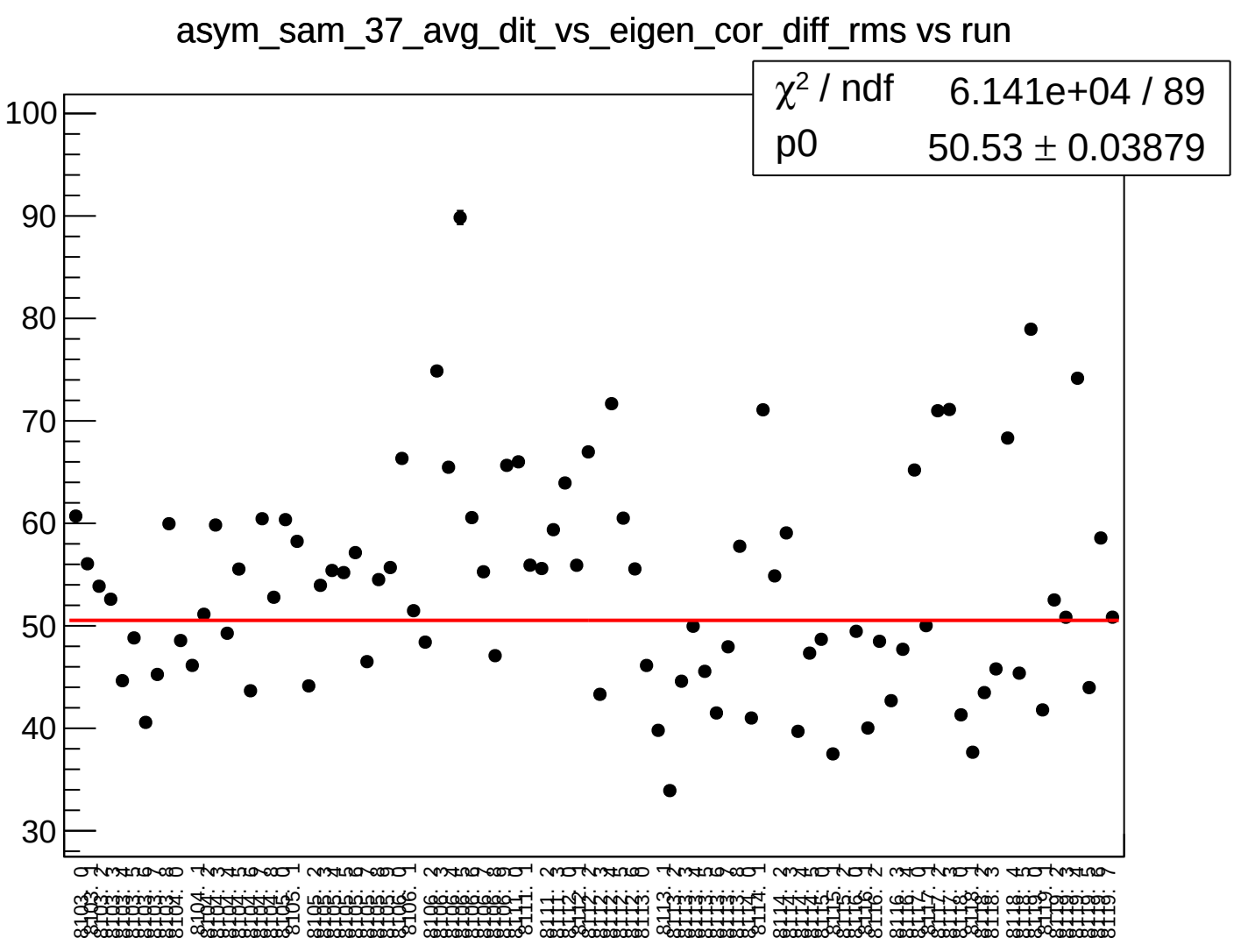

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 62.23 / 89
p0 0.01376 ± 0.05486
pull
Entries 90
Mean −44.11
Std Dev 0

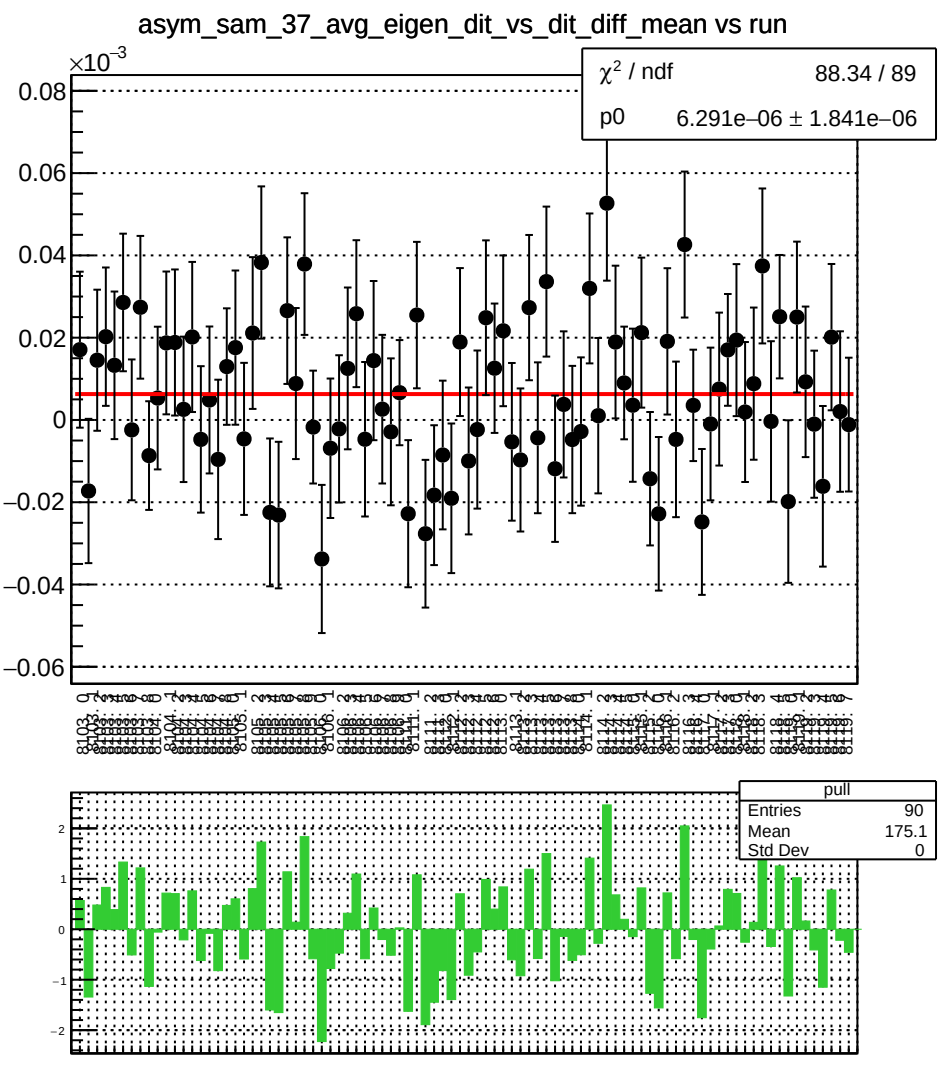

pull1D
Entries 90
Mean −0.01512
Std Dev 0.8314

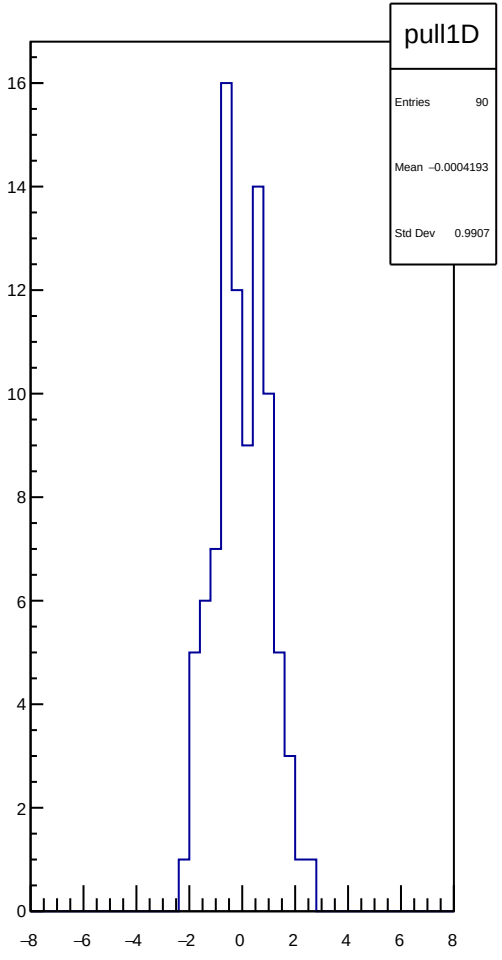

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.141e+04 / 89
p0 50.53 ± 0.03879
100
90
80
70
60
50
40
30

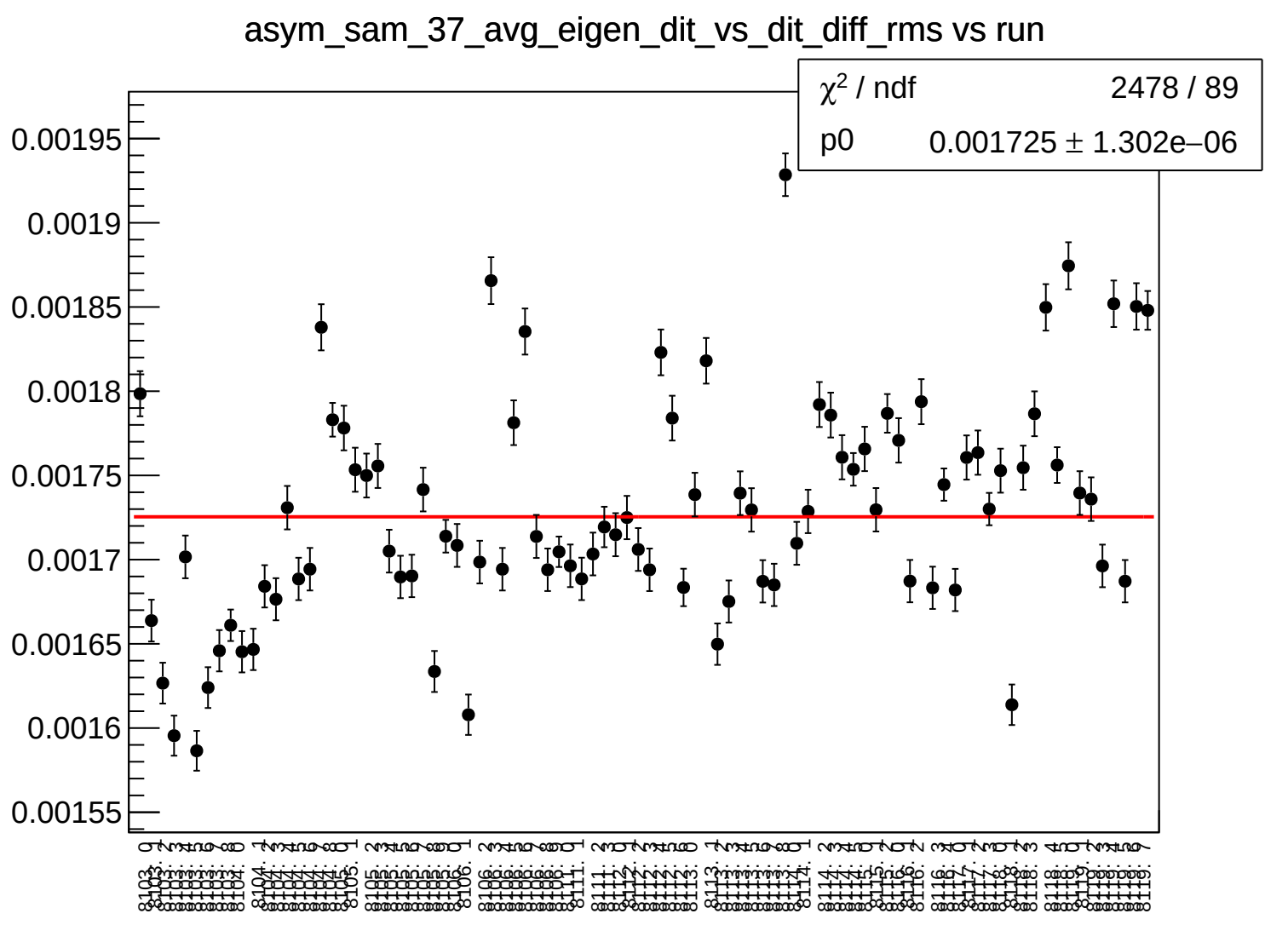

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.23 / 89
p0 0.01376 ± 0.05486
pull
Entries 90
Mean −44.11
Std Dev 0

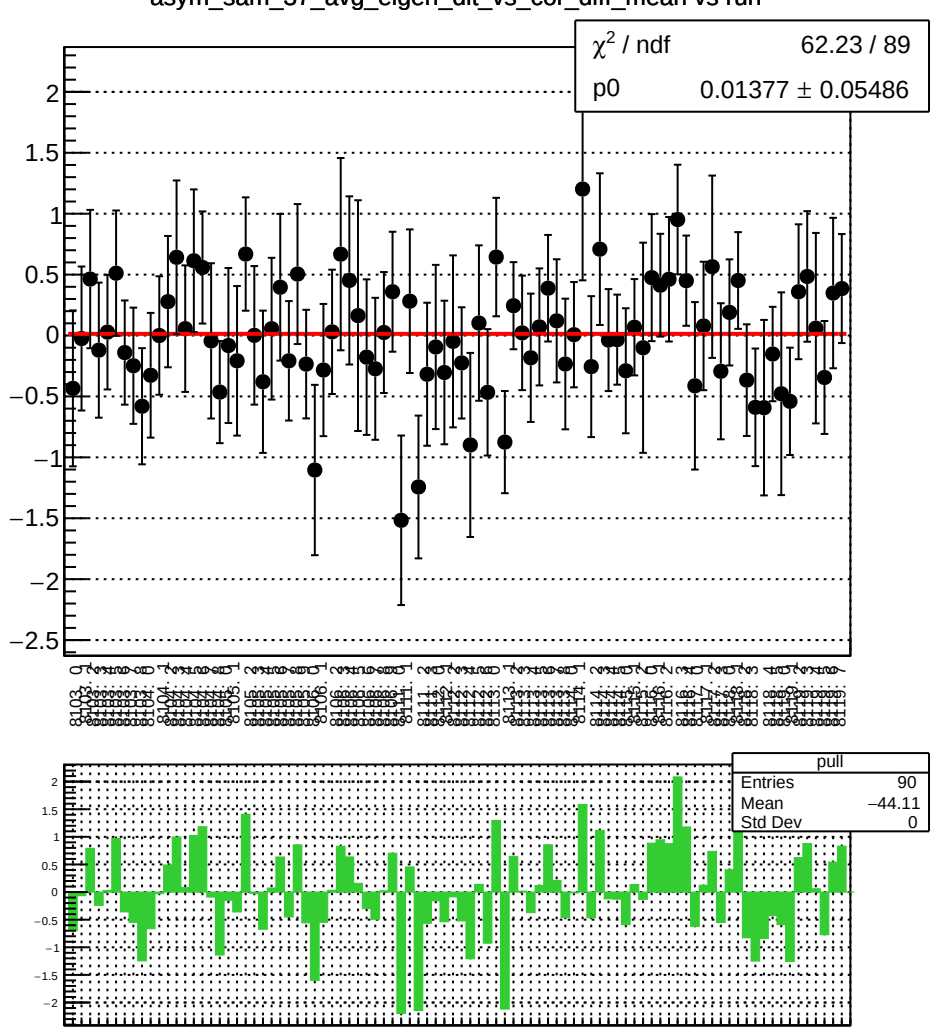

pull1D
Entries 90
Mean −0.01512
Std Dev 0.8314

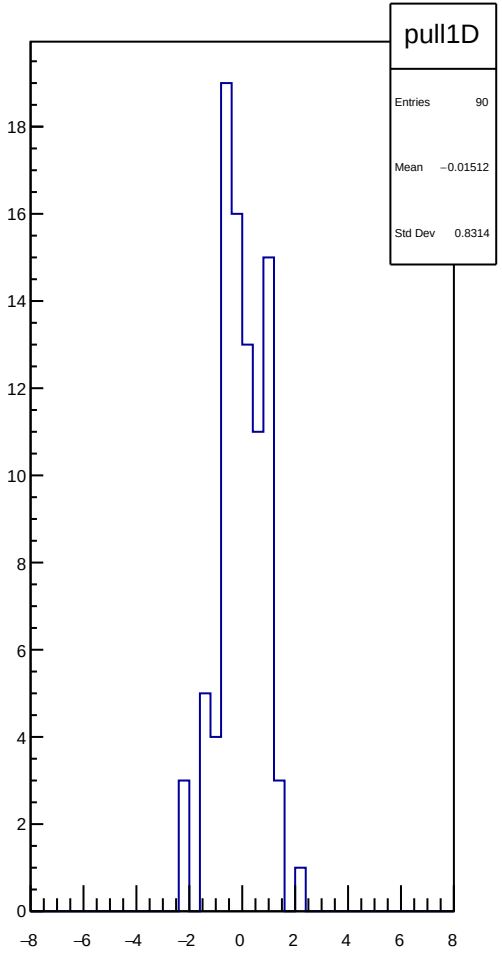

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.141e+04 / 89
p0 50.53 ± 0.03879
100
90
80
70
60
50
40
30

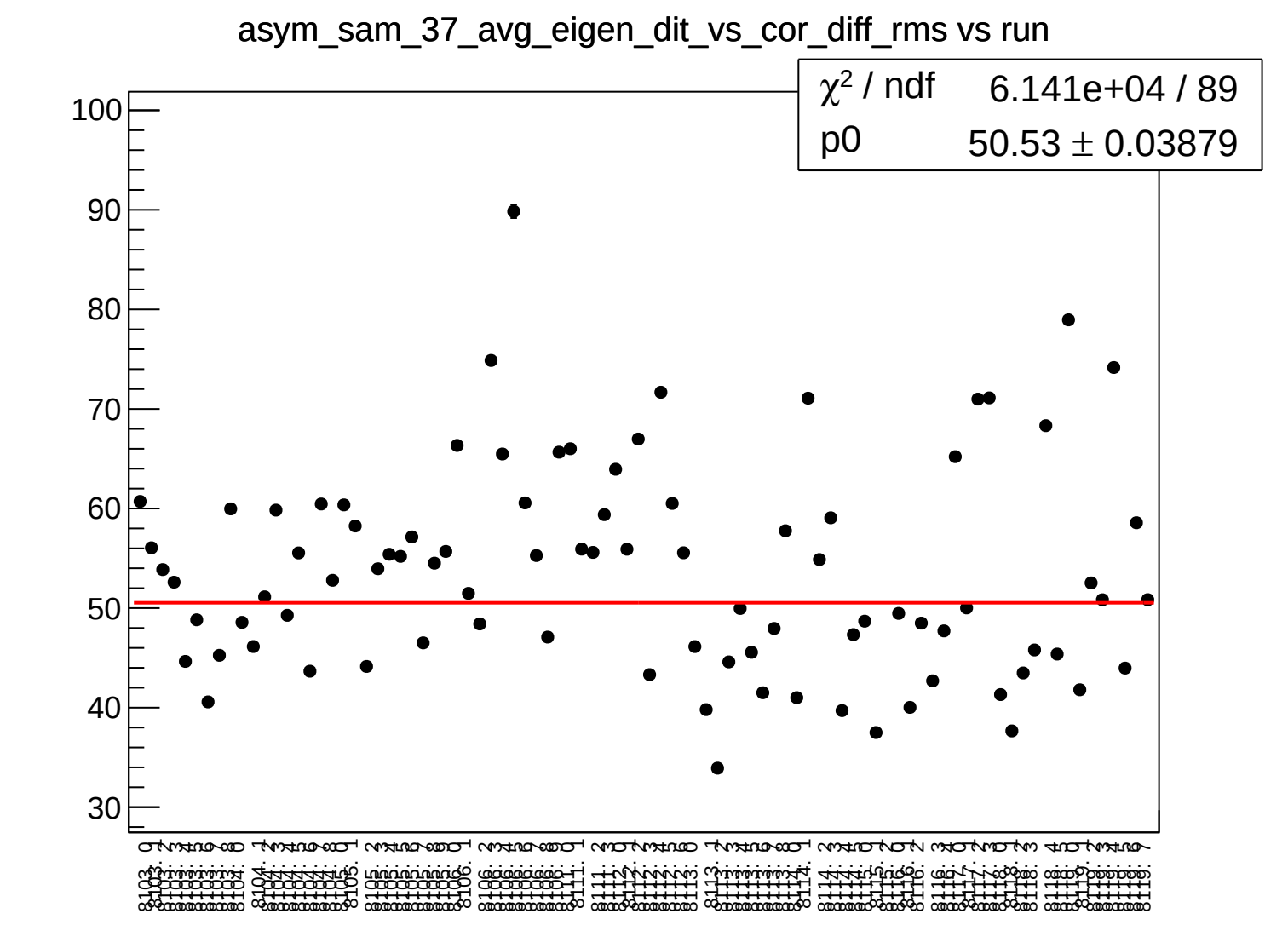

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.34 / 89
p0 6.291e−06 ± 1.841e−06
pull
Entries 90
Mean 175.1
Std Dev 0

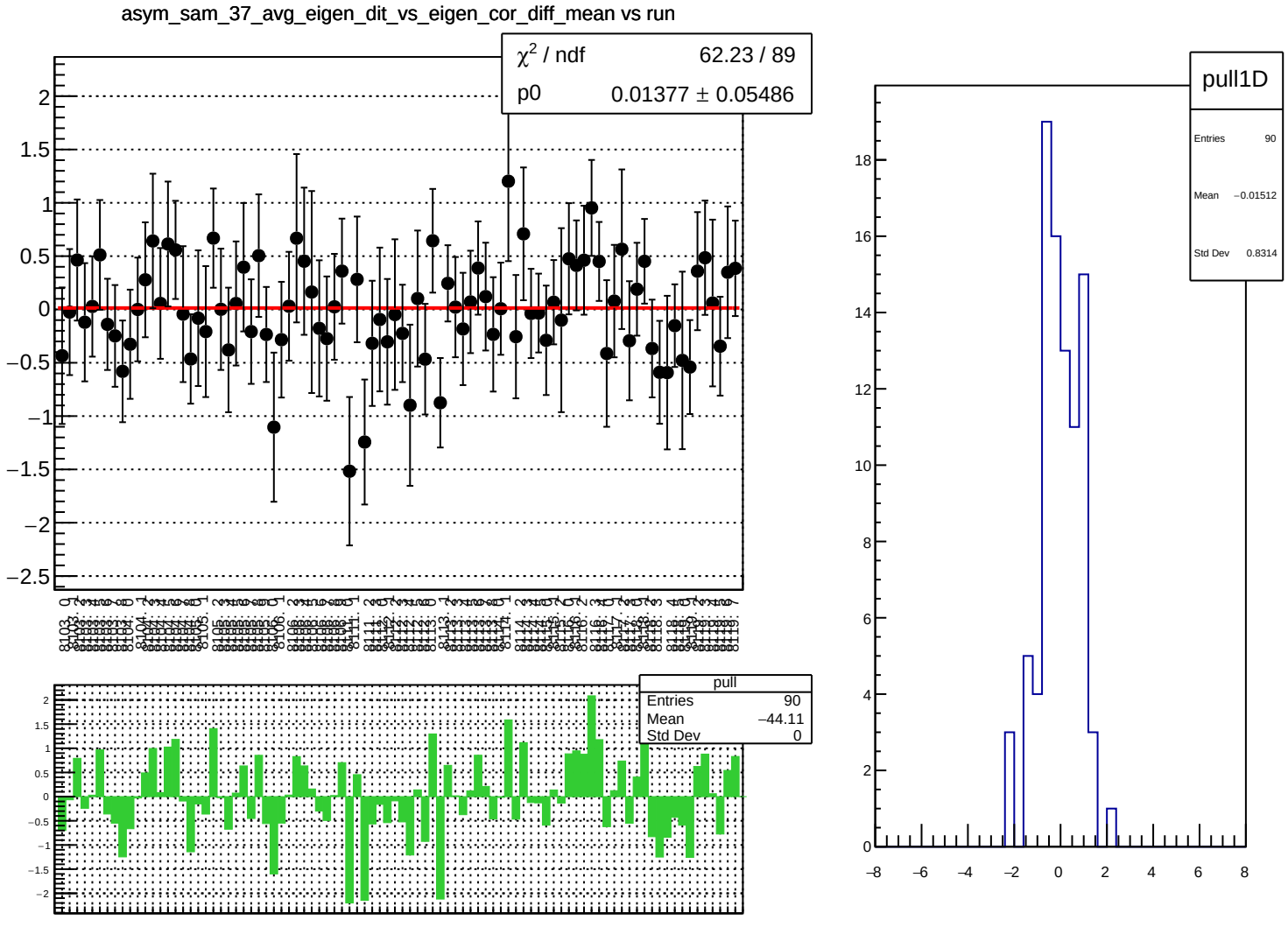

pull1D
Entries 90
Mean −0.0004193
Std Dev 0.9907

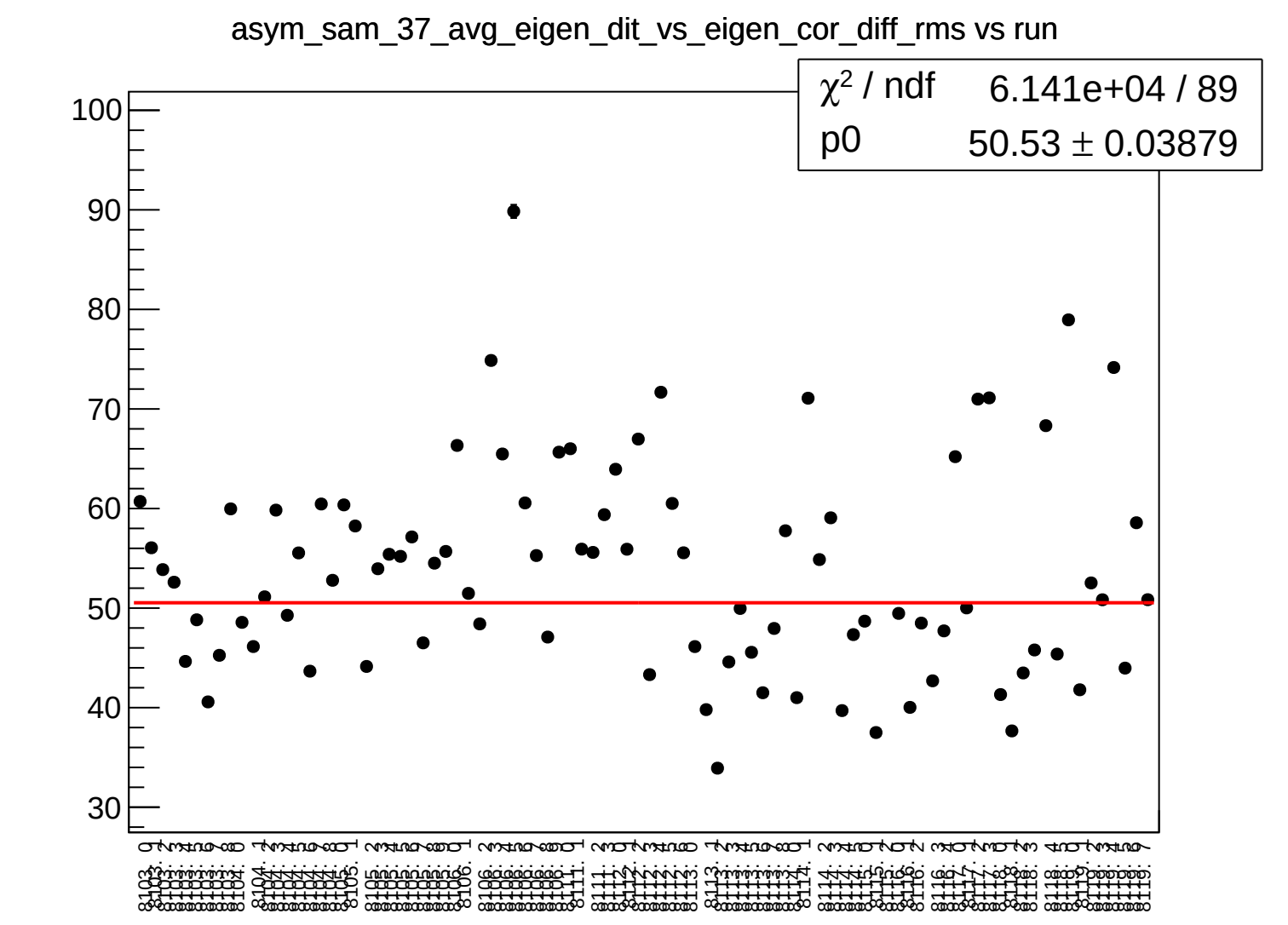

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2478 / 89
p0 0.001725 ± 1.302e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155

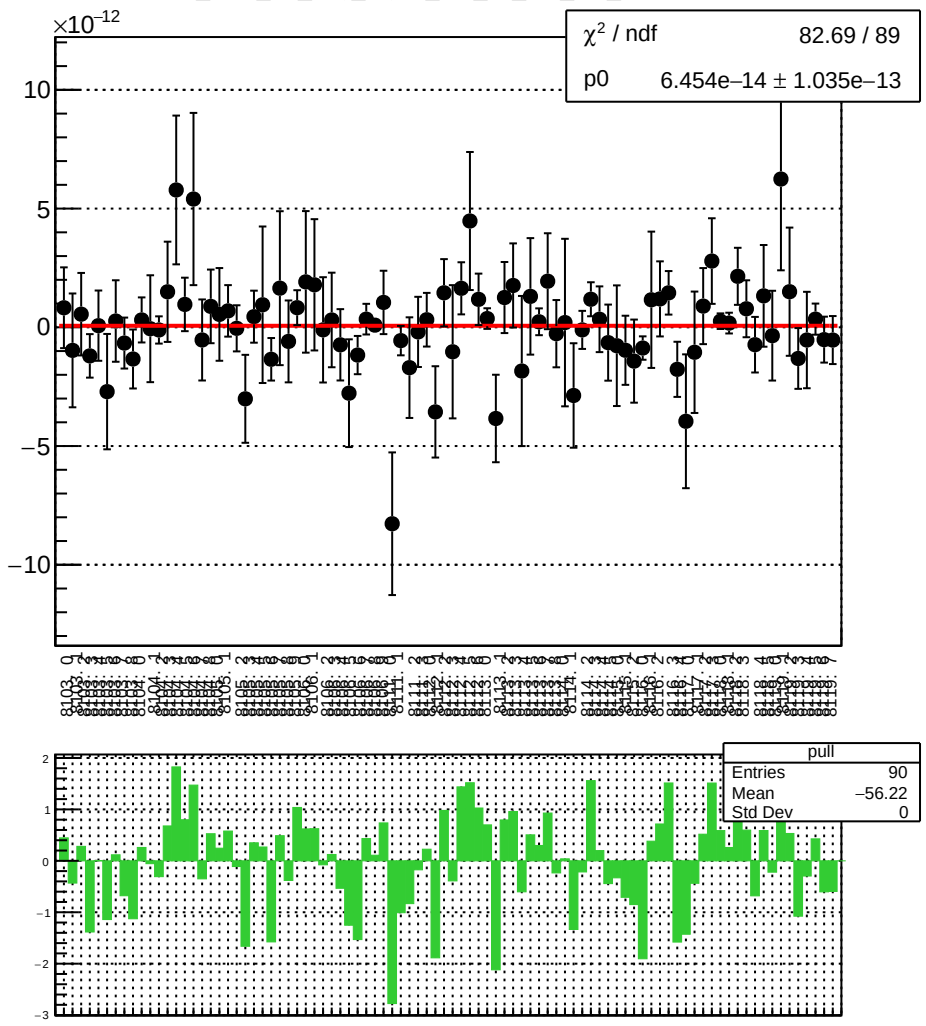

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.23 / 89
p0 0.01377 ± 0.05486
pull
Entries 90
Mean −44.11
Std Dev 0

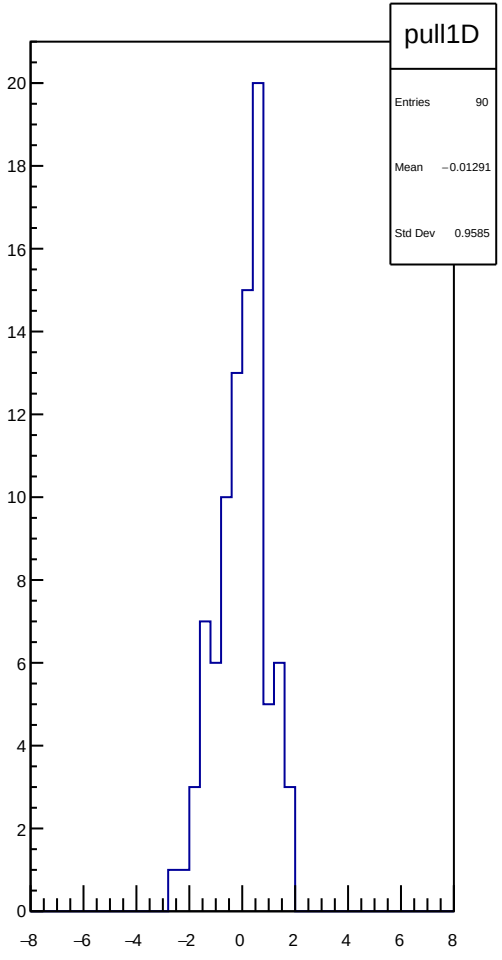

pull1D
Entries 90
Mean −0.01512
Std Dev 0.8314

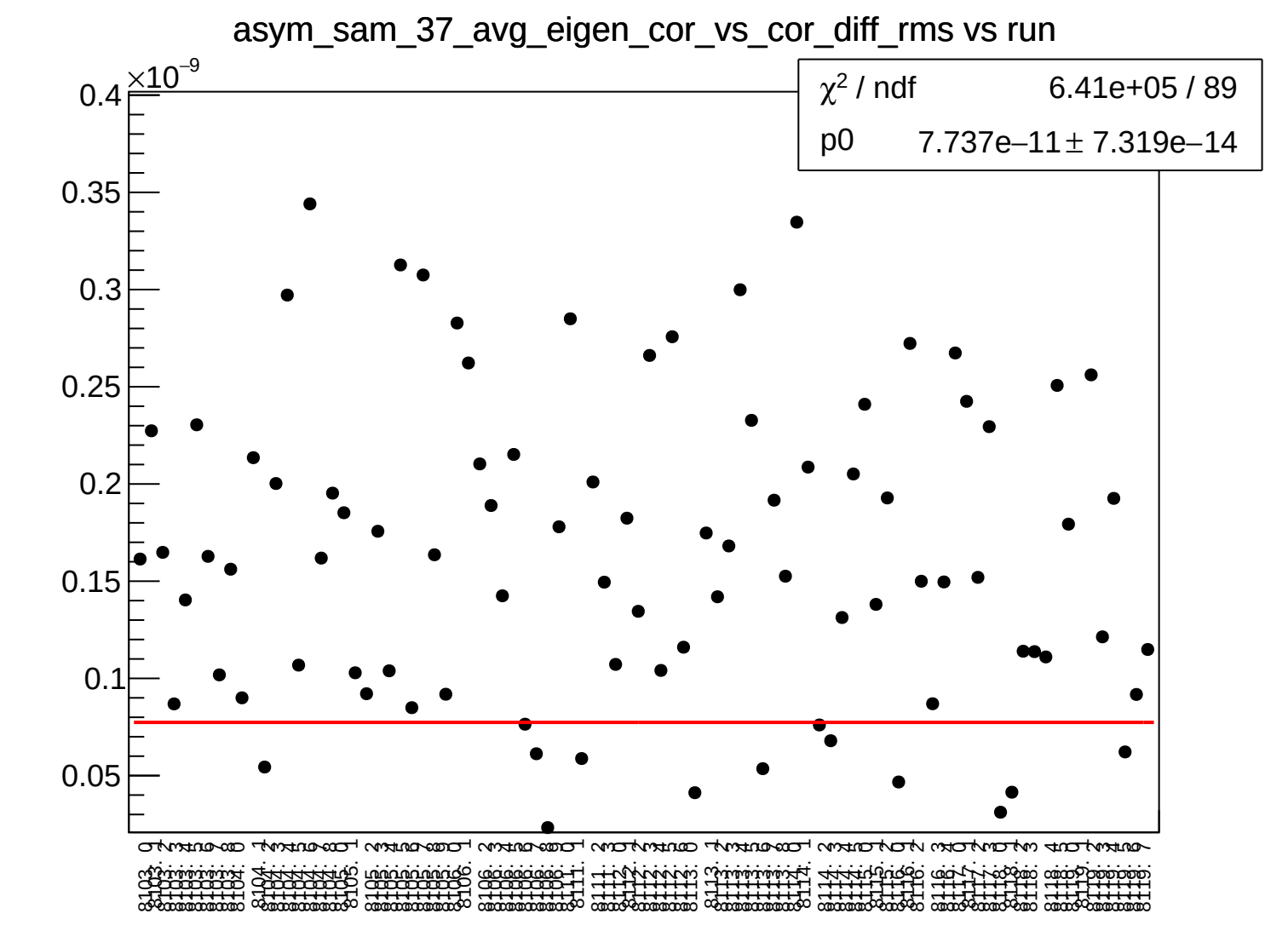

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.141e+04 / 89
p0 50.53 ± 0.03879
100
90
80
70
60
50
40
30

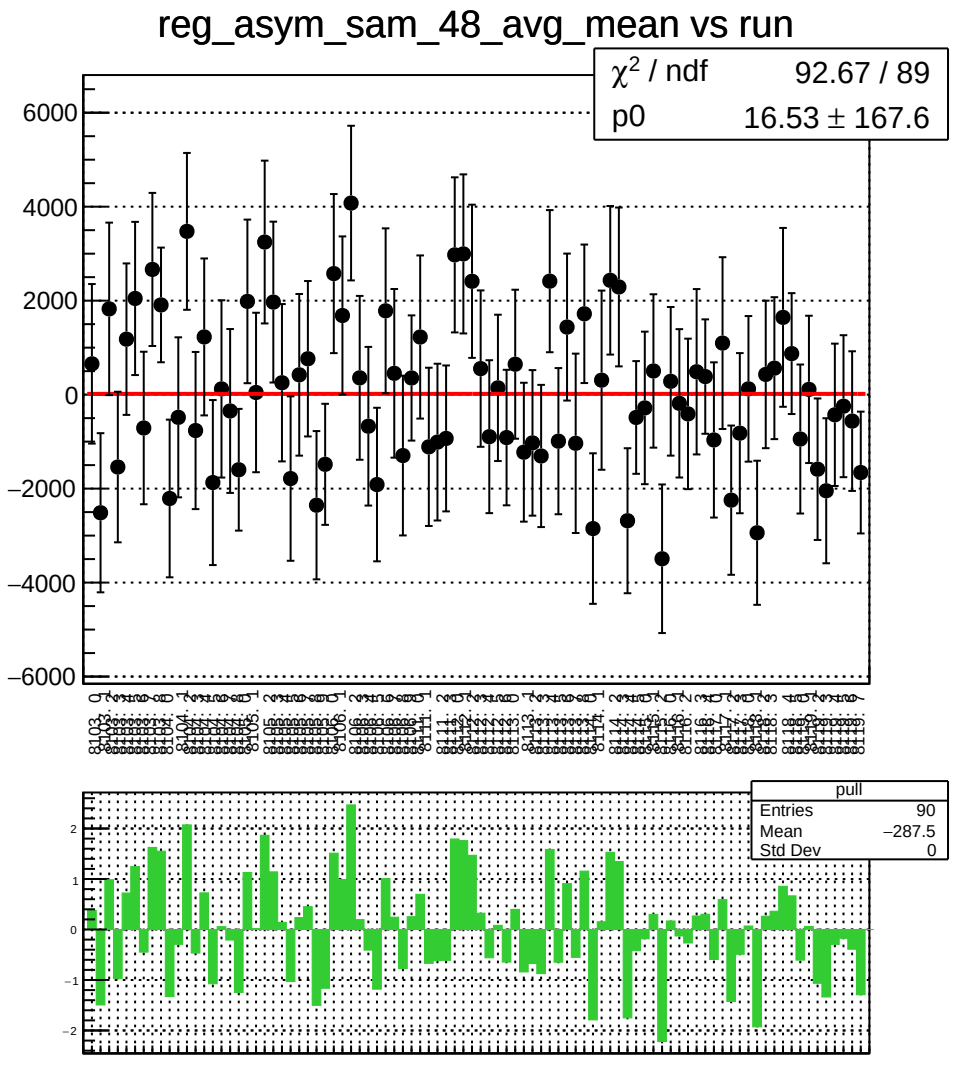

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.23 / 89
p0 0.01377 ± 0.05486
pull
Entries 90
Mean −44.11
Std Dev 0
pull1D
Entries 90
Mean −0.01512
Std Dev 0.8314

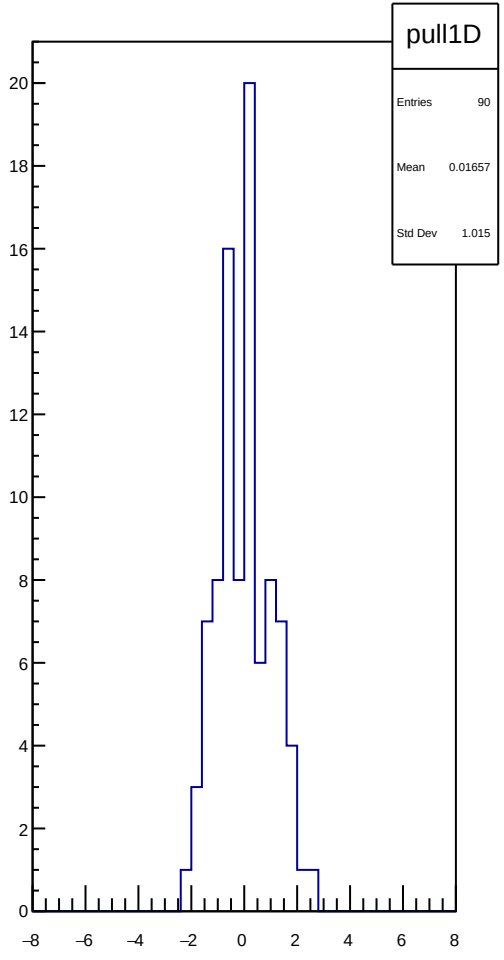

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.141e+04 / 89
p0 50.53 ± 0.03879
100
90
80
70
60
50
40
30

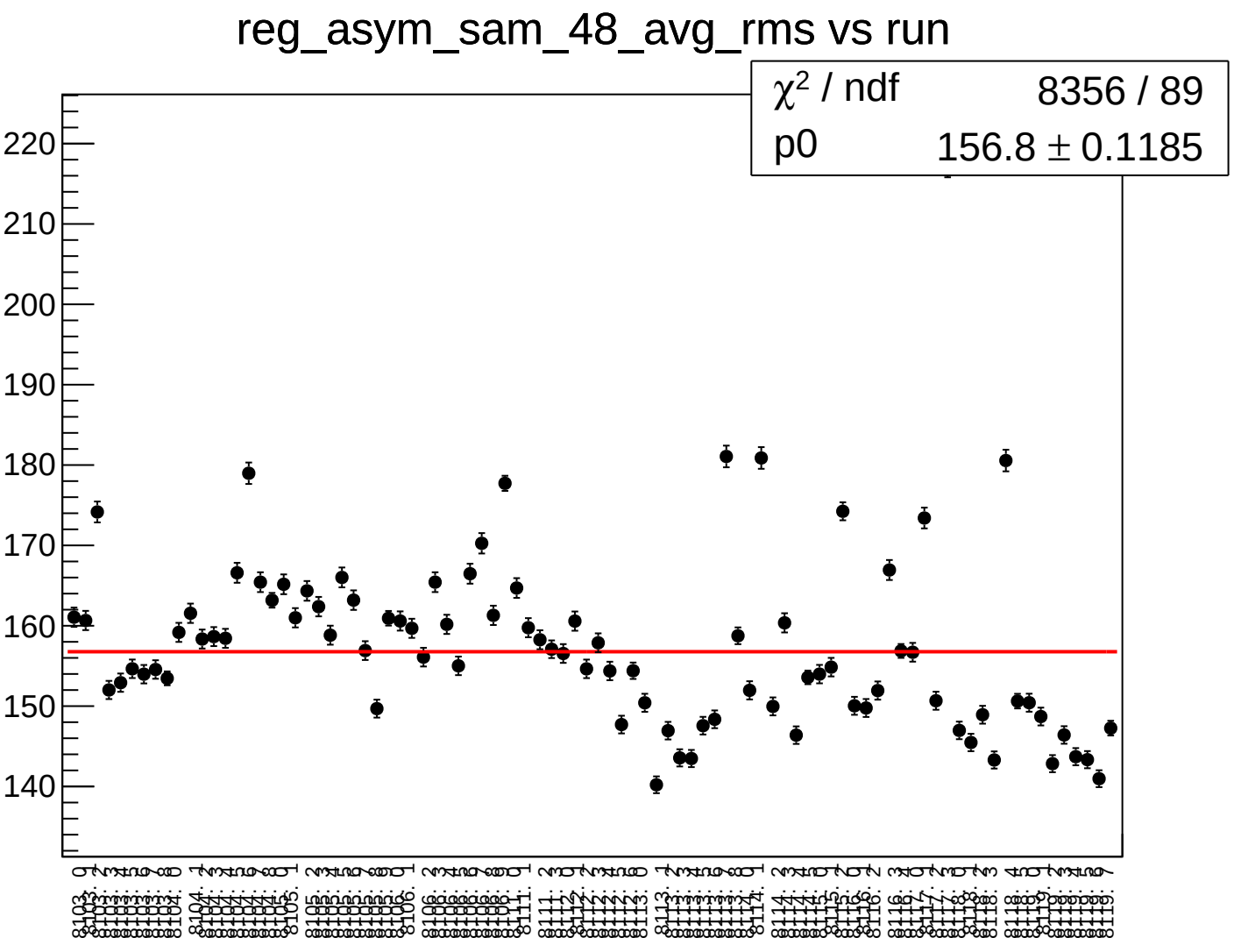

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.69 / 89
p0 6.454e−14 ± 1.035e−13
pull
Entries 90
Mean −56.22
Std Dev 0

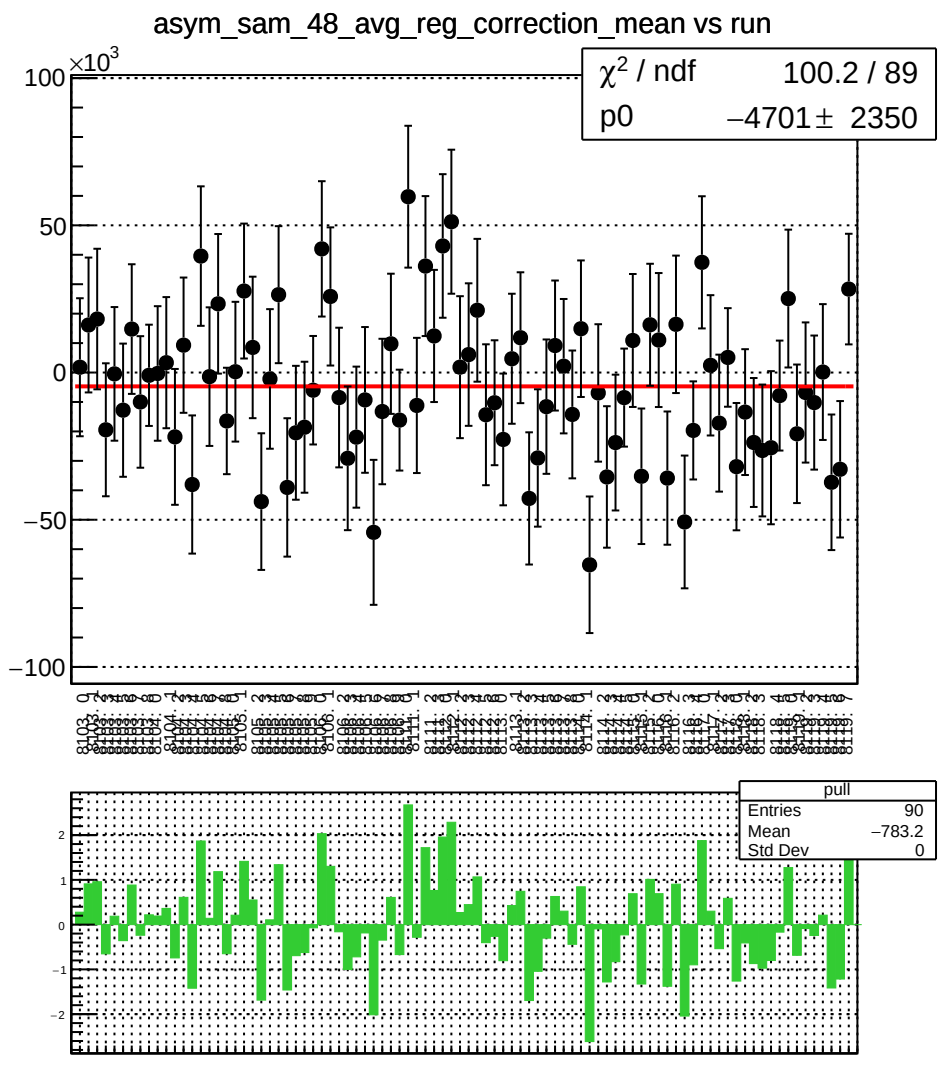

pull1D
Entries 90
Mean −0.01291
Std Dev 0.9585

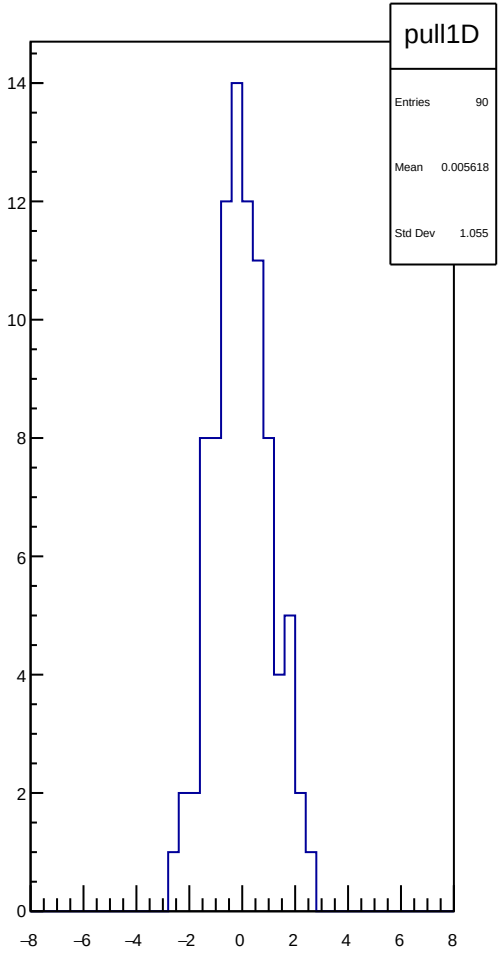

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.41e+05 / 89
p0 7.737e−11 ± 7.319e−14

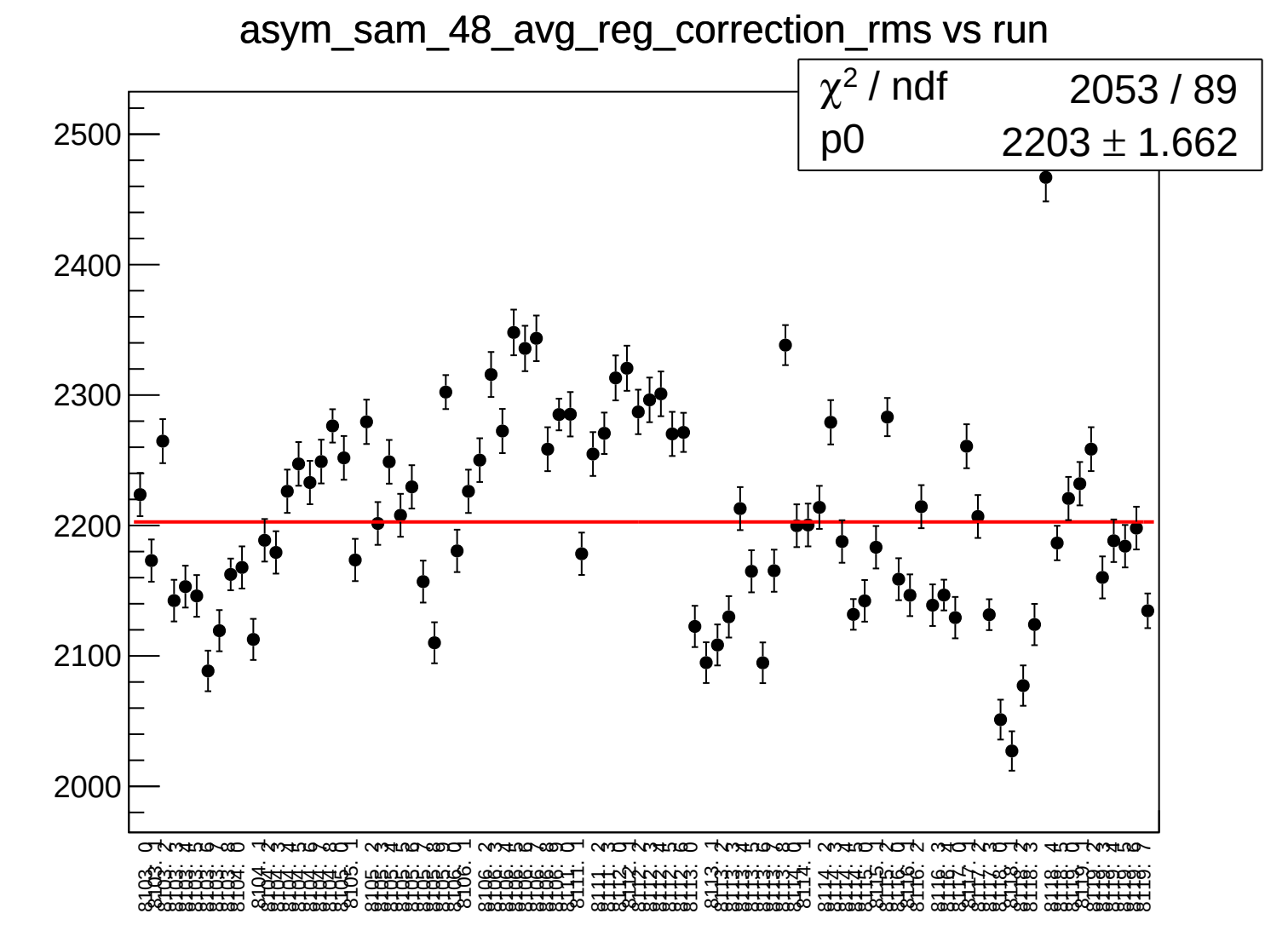

reg_asym_sam_48_avg_mean vs run
χ² / ndf 92.67 / 89
p0 16.53 ± 167.6
pull
Entries 90
Mean −287.5
Std Dev 0

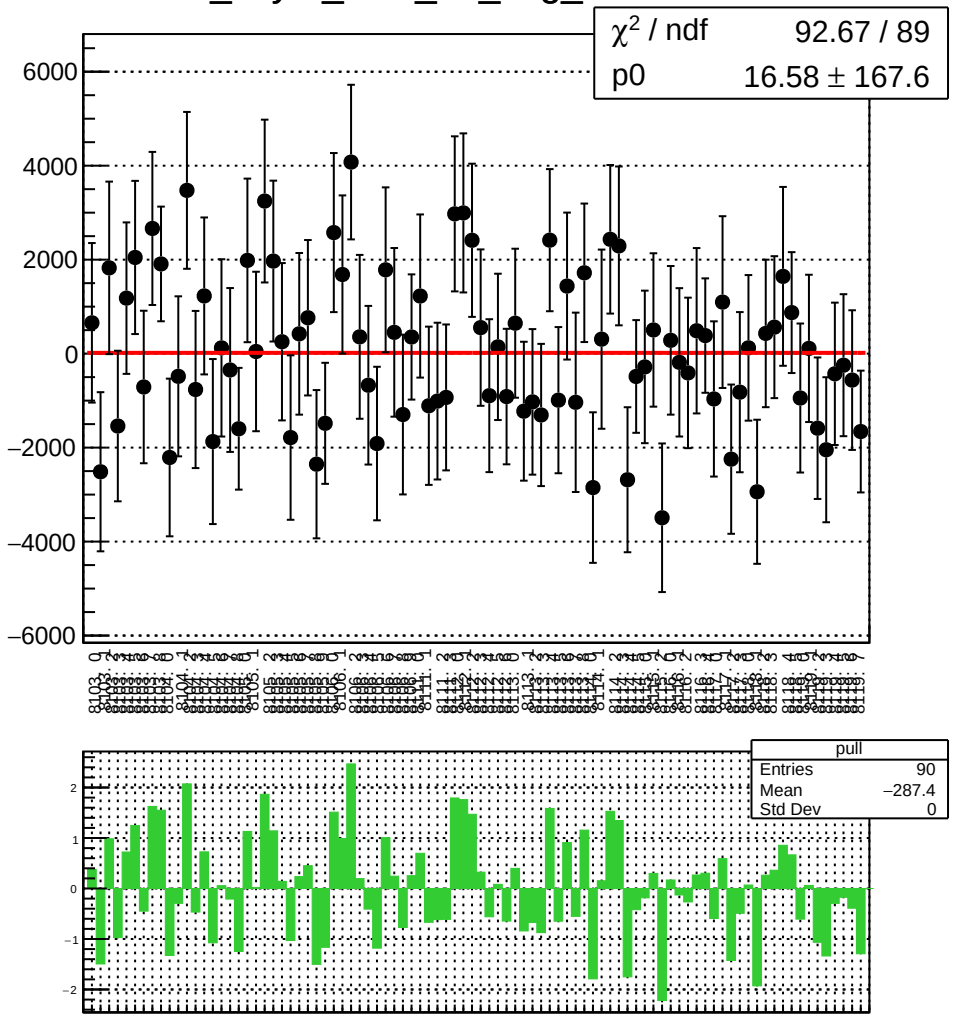

pull1D
Entries 90
Mean 0.01657
Std Dev 1.015

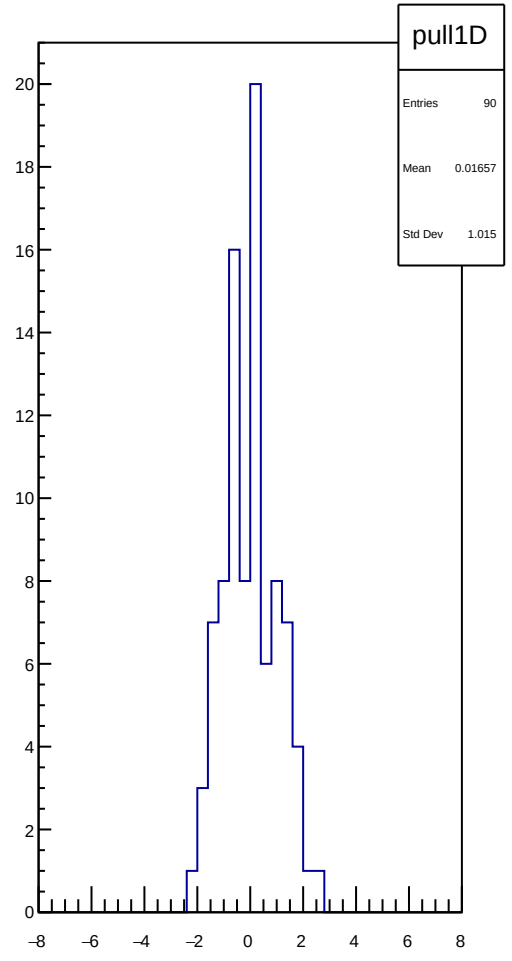

reg_asym_sam_48_avg_rms vs run
χ² / ndf 8356 / 89
p0 156.8 ± 0.1185
220
210
200
190
180
170
160
150
140

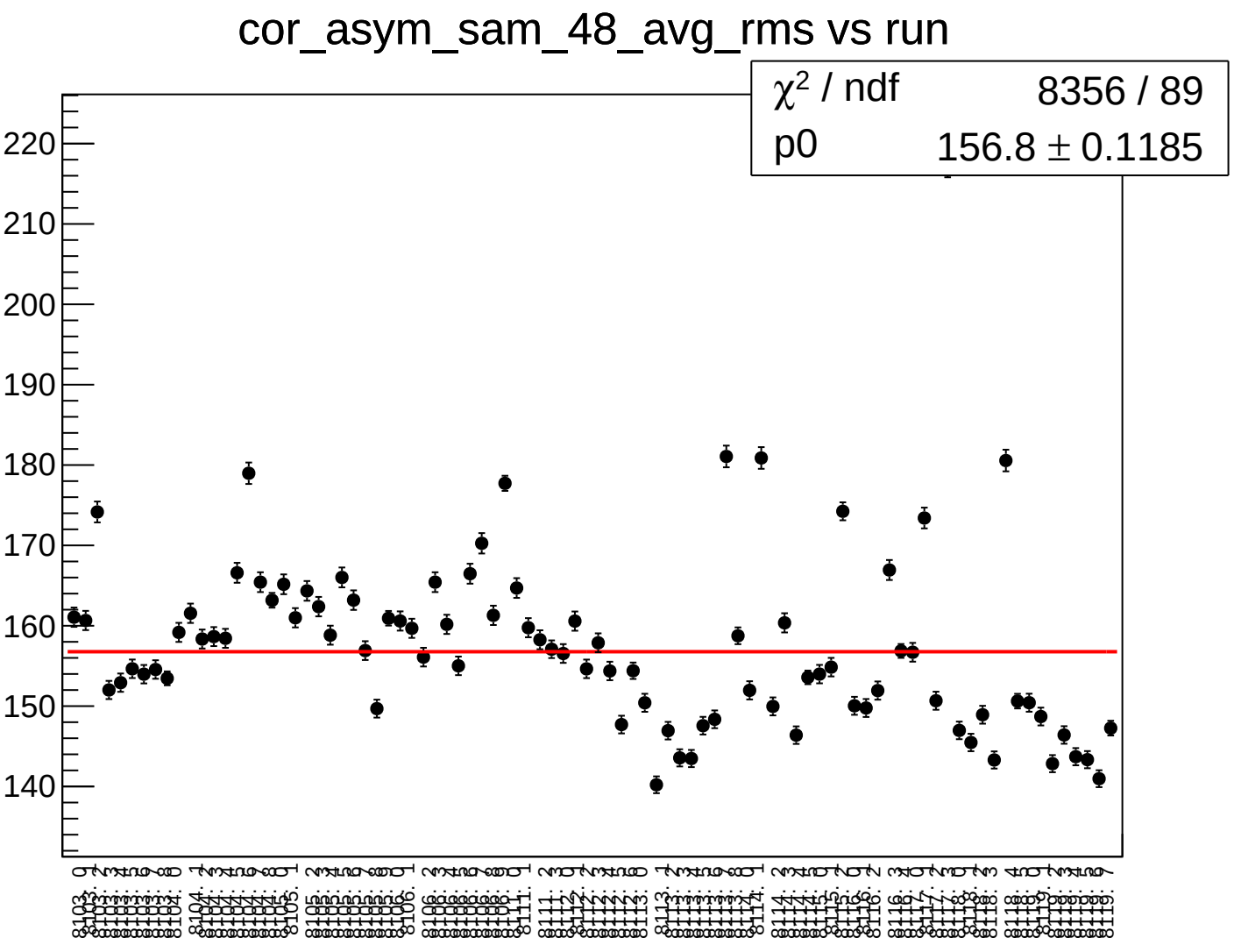

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 100.2 / 89
p0 −4701 ± 2350
×10³
100
50
0
−50
−100
pull
Entries 90
Mean −783.2
Std Dev 0
2
1
0
−1
−2

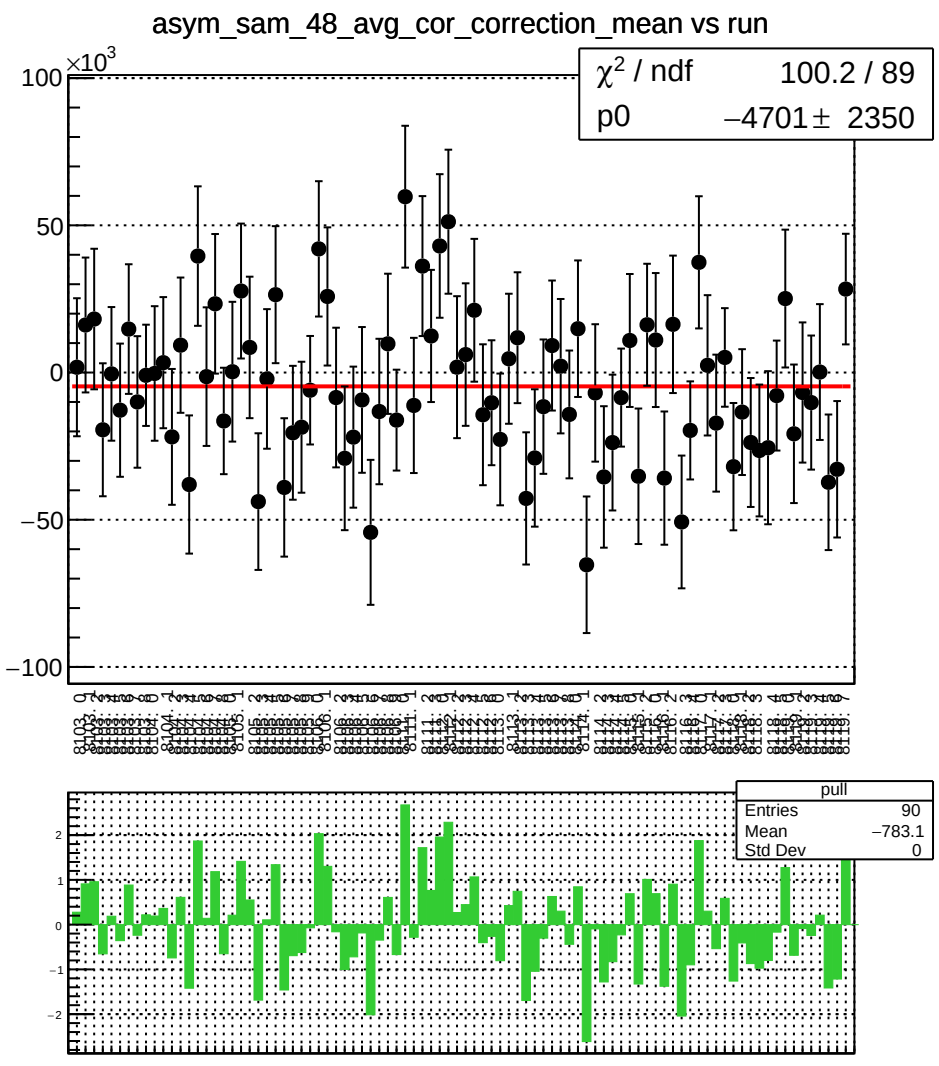

pull1D
Entries 90
Mean 0.005618
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

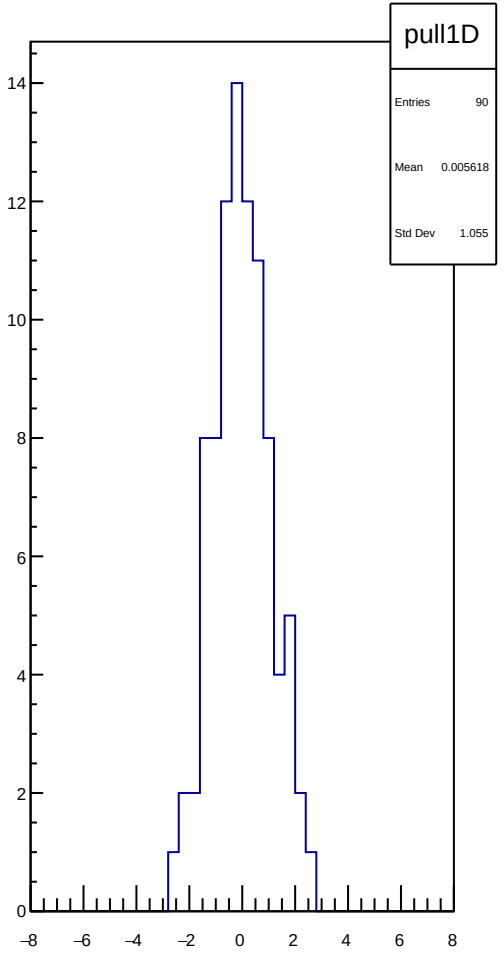

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2053 / 89
p0 2203 ± 1.662
2500
2400
2300
2200
2100
2000

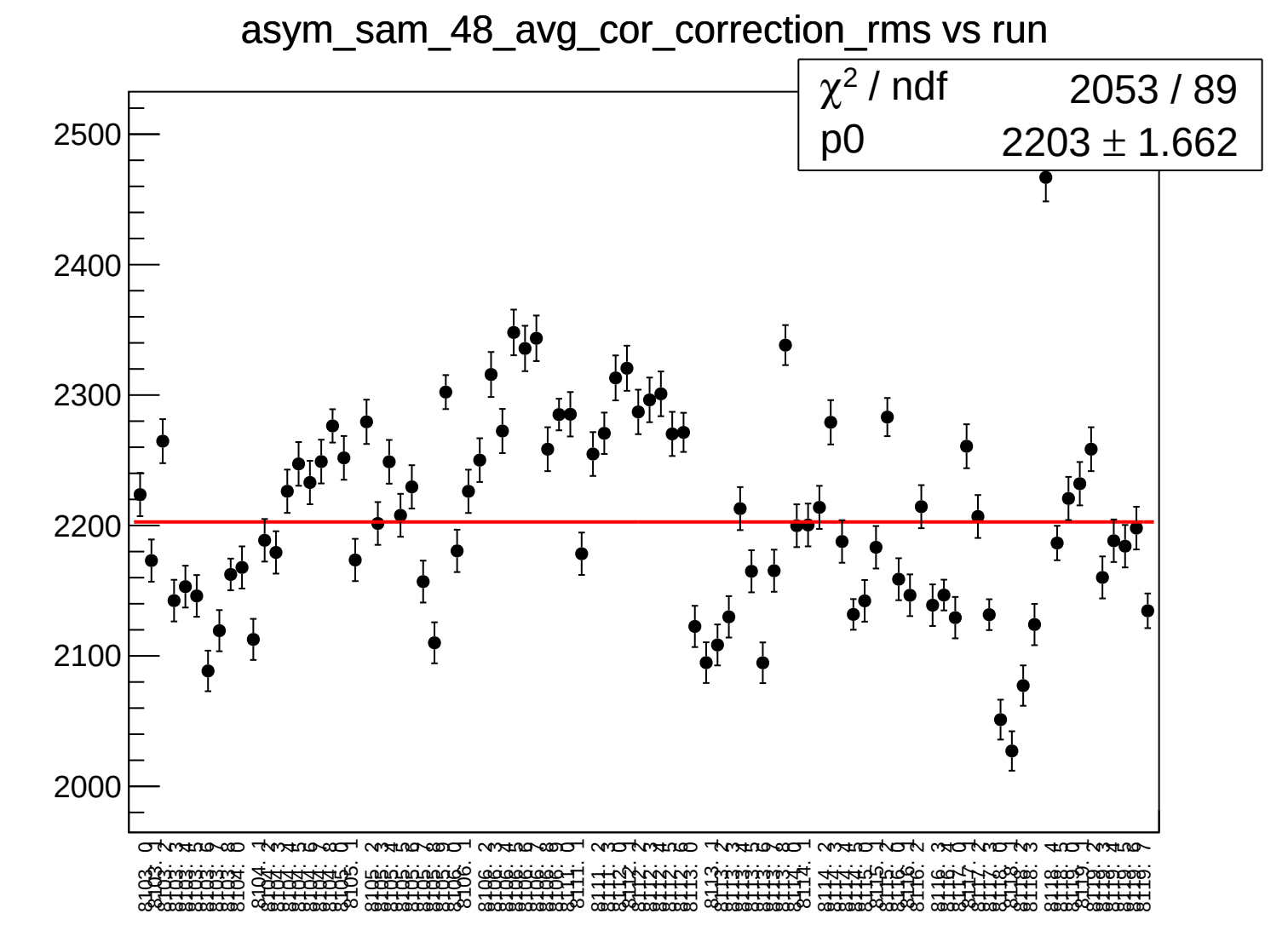

cor_asym_sam_48_avg_mean vs run
χ² / ndf 92.67 / 89
p0 16.58 ± 167.6
pull
Entries 90
Mean −287.4
Std Dev 0

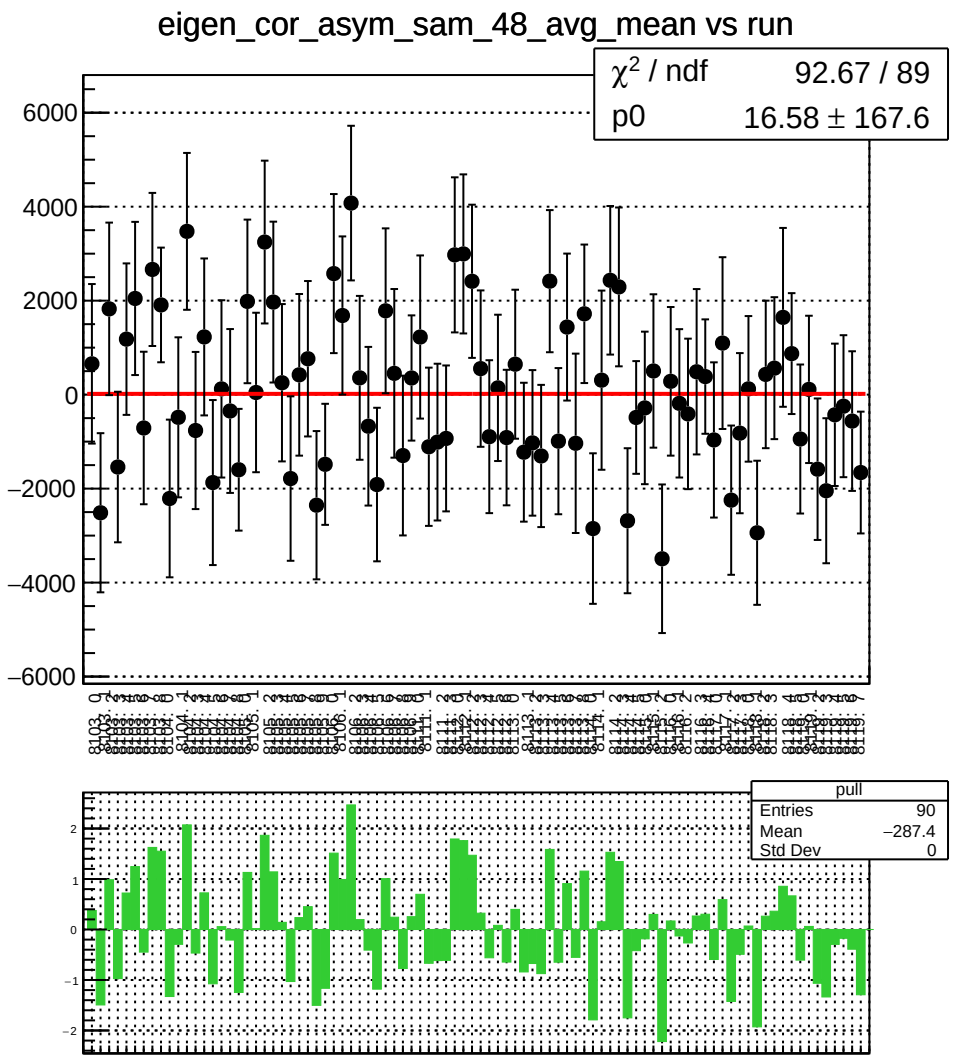

pull1D
Entries 90
Mean 0.01657
Std Dev 1.015

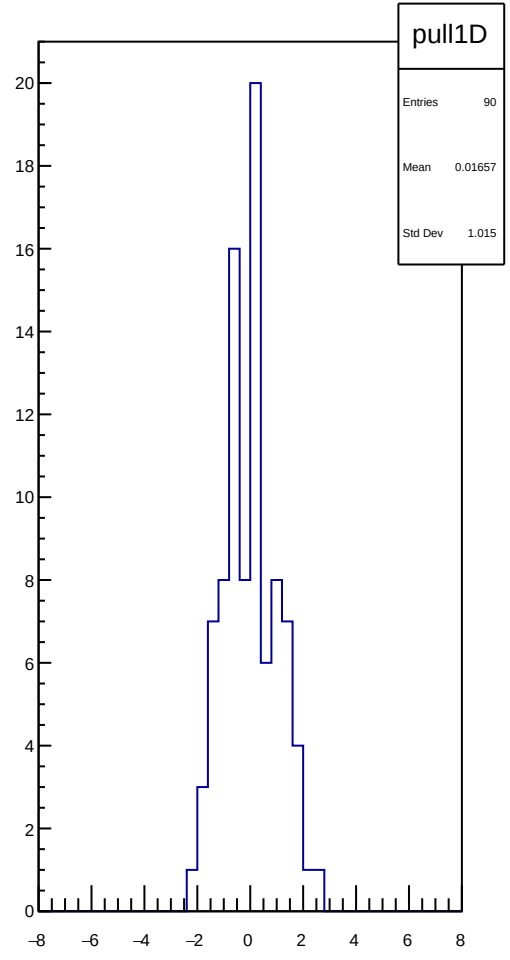

cor_asym_sam_48_avg_rms vs run
χ² / ndf 8356 / 89
p0 156.8 ± 0.1185
220
210
200
190
180
170
160
150
140

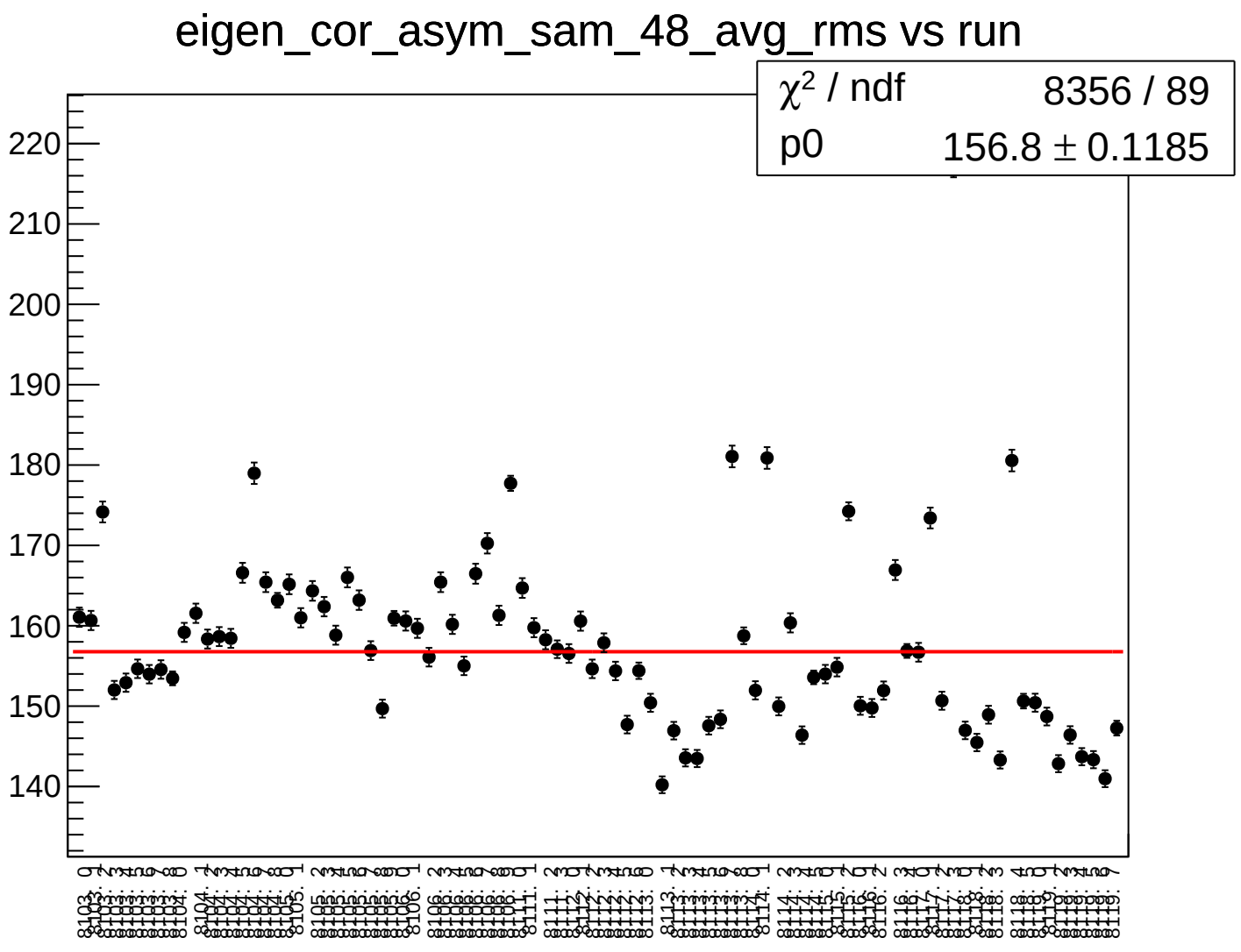

asym_sam_48_avg_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 100.2 / 89
p0 −4701 ± 2350
pull
Entries 90
Mean −783.1
Std Dev 0
2
1
0
−1
−2

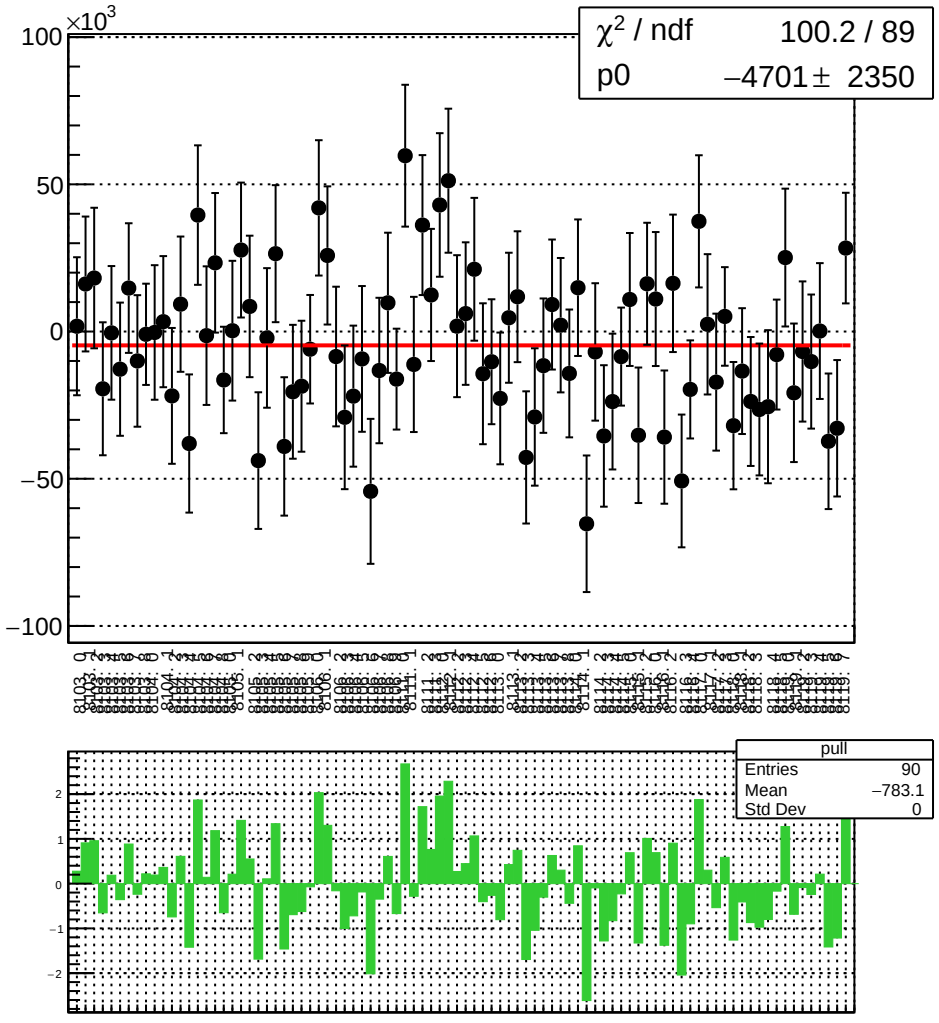

pull1D
Entries 90
Mean 0.005618
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

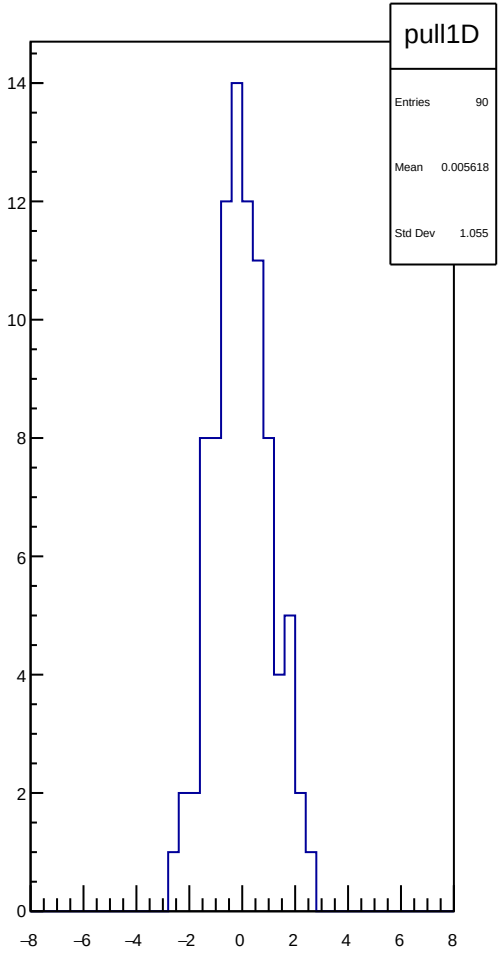

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2053 / 89
p0 2203 ± 1.662
2500
2400
2300
2200
2100
2000

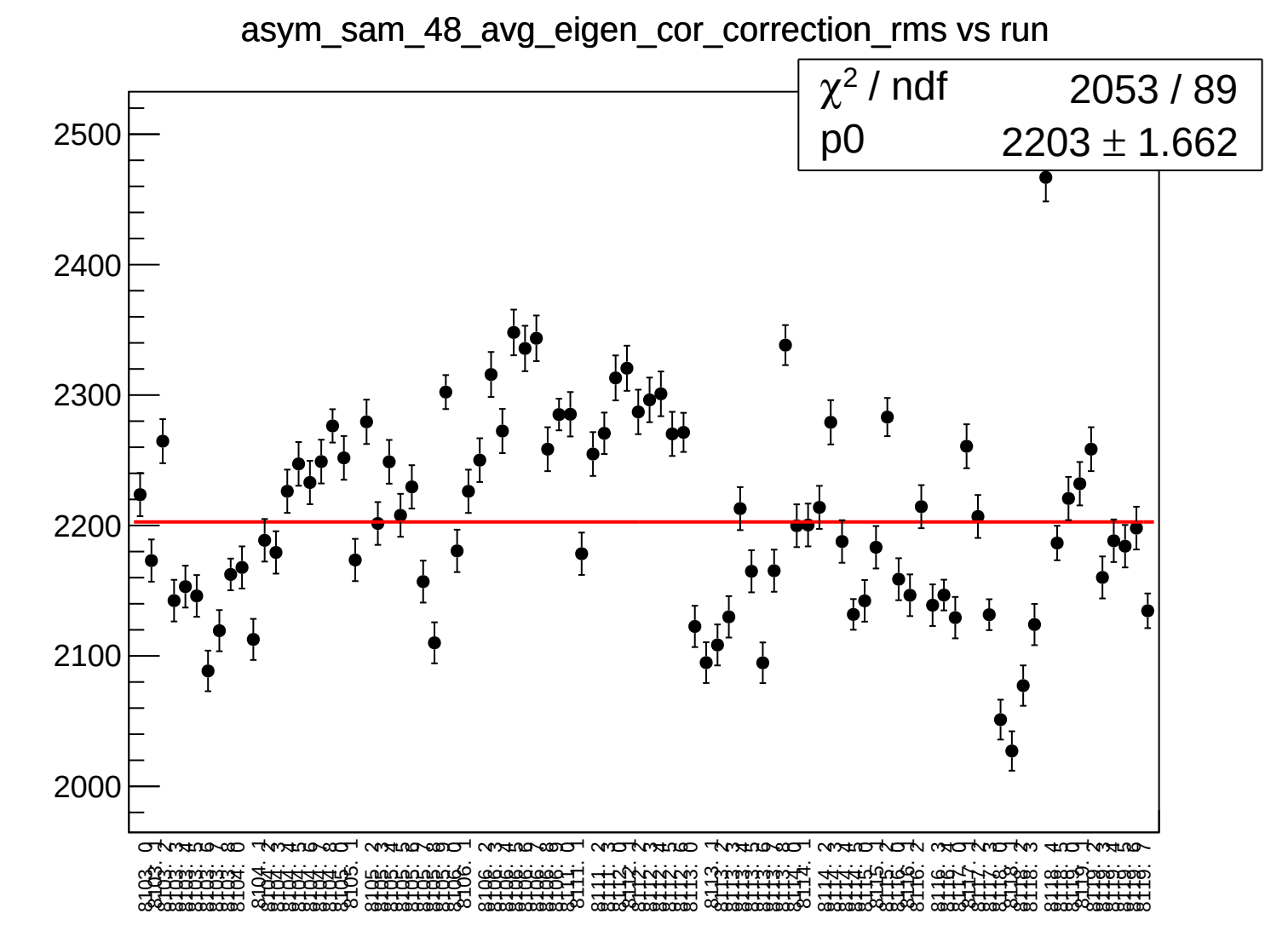

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 92.67 / 89
p0 16.58 ± 167.6
pull
Entries 90
Mean −287.4
Std Dev 0

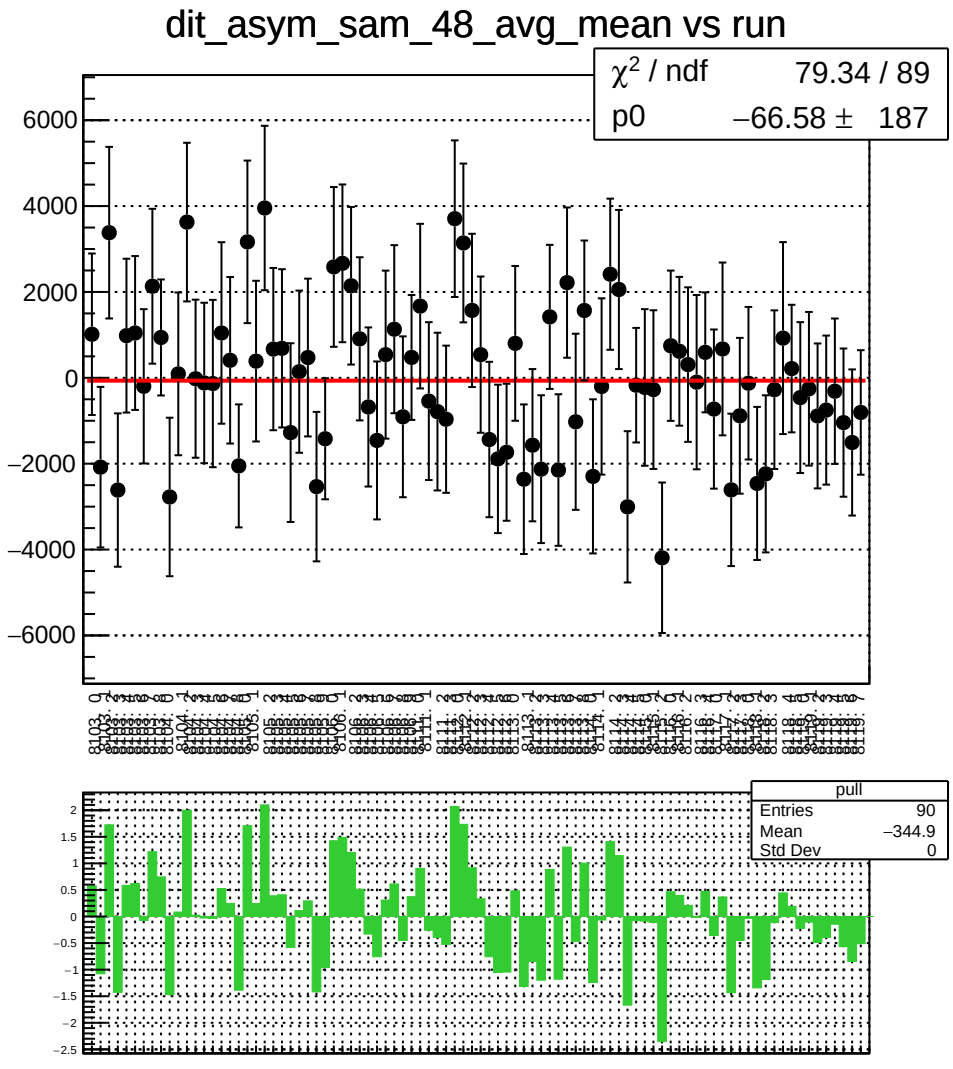

pull1D
Entries 90
Mean 0.01657
Std Dev 1.015

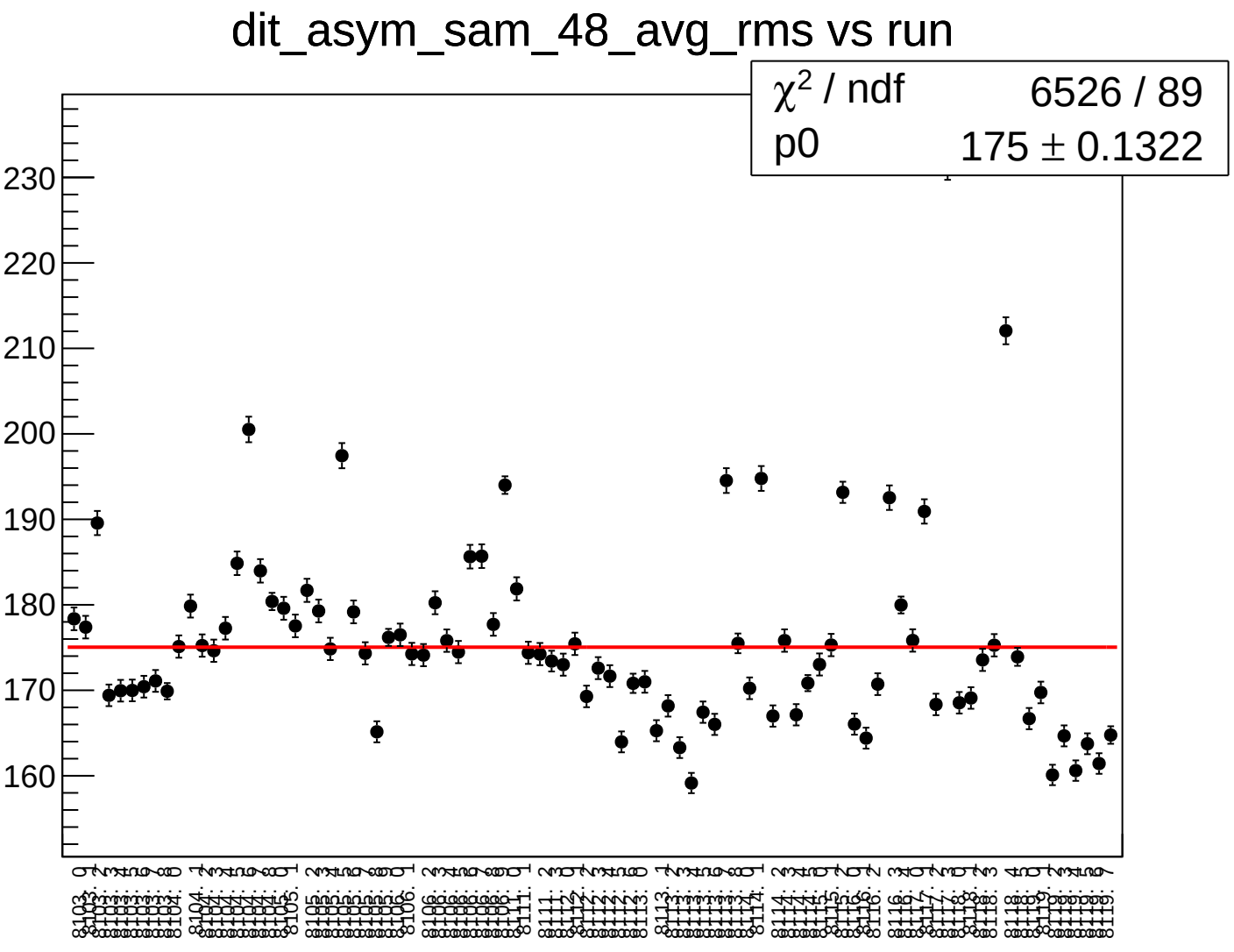

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 8356 / 89
p0 156.8 ± 0.1185
220
210
200
190
180
170
160
150
140

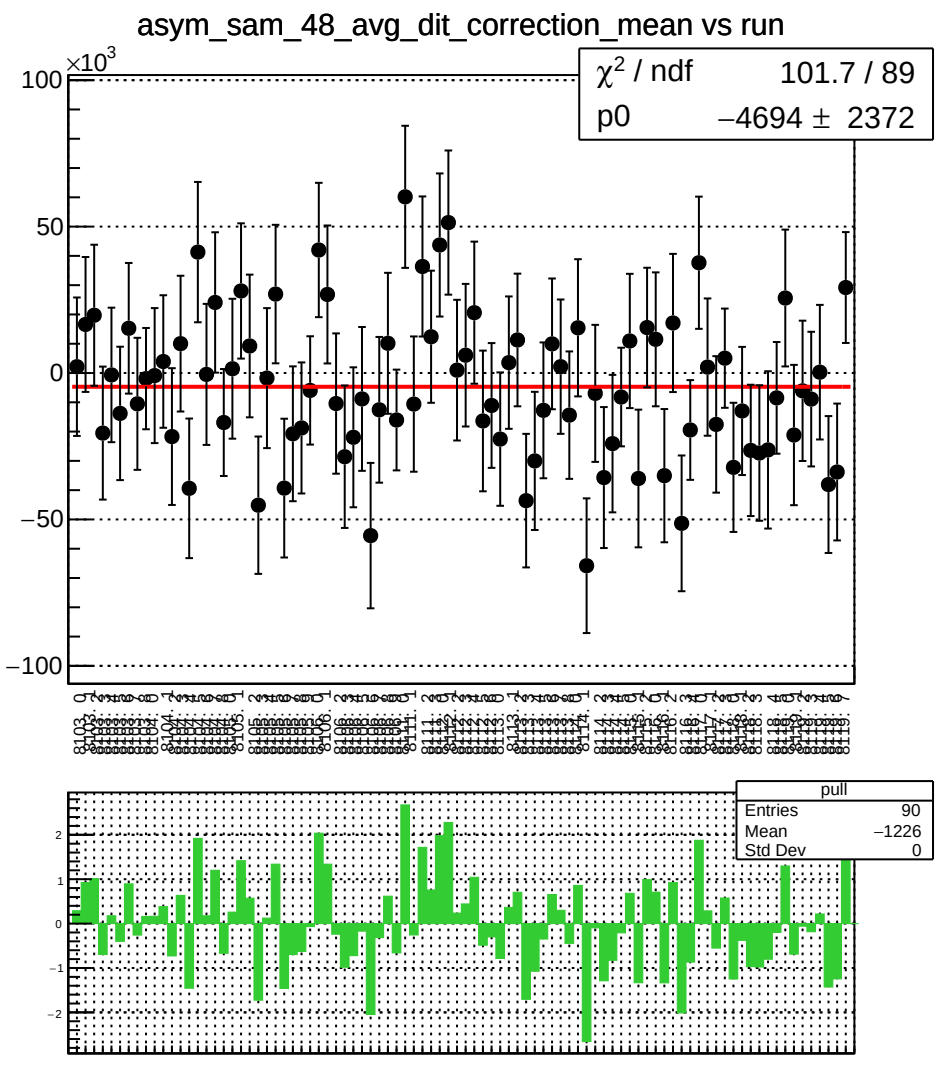

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.2 / 89
p0 −4701 ± 2350
pull
Entries 90
Mean −783.1
Std Dev 0

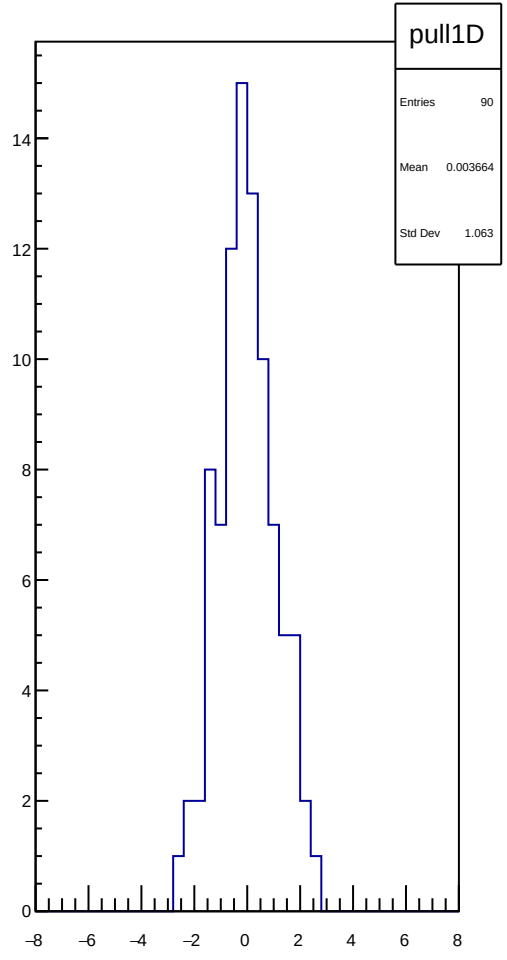

pull1D
Entries 90
Mean 0.005618
Std Dev 1.055

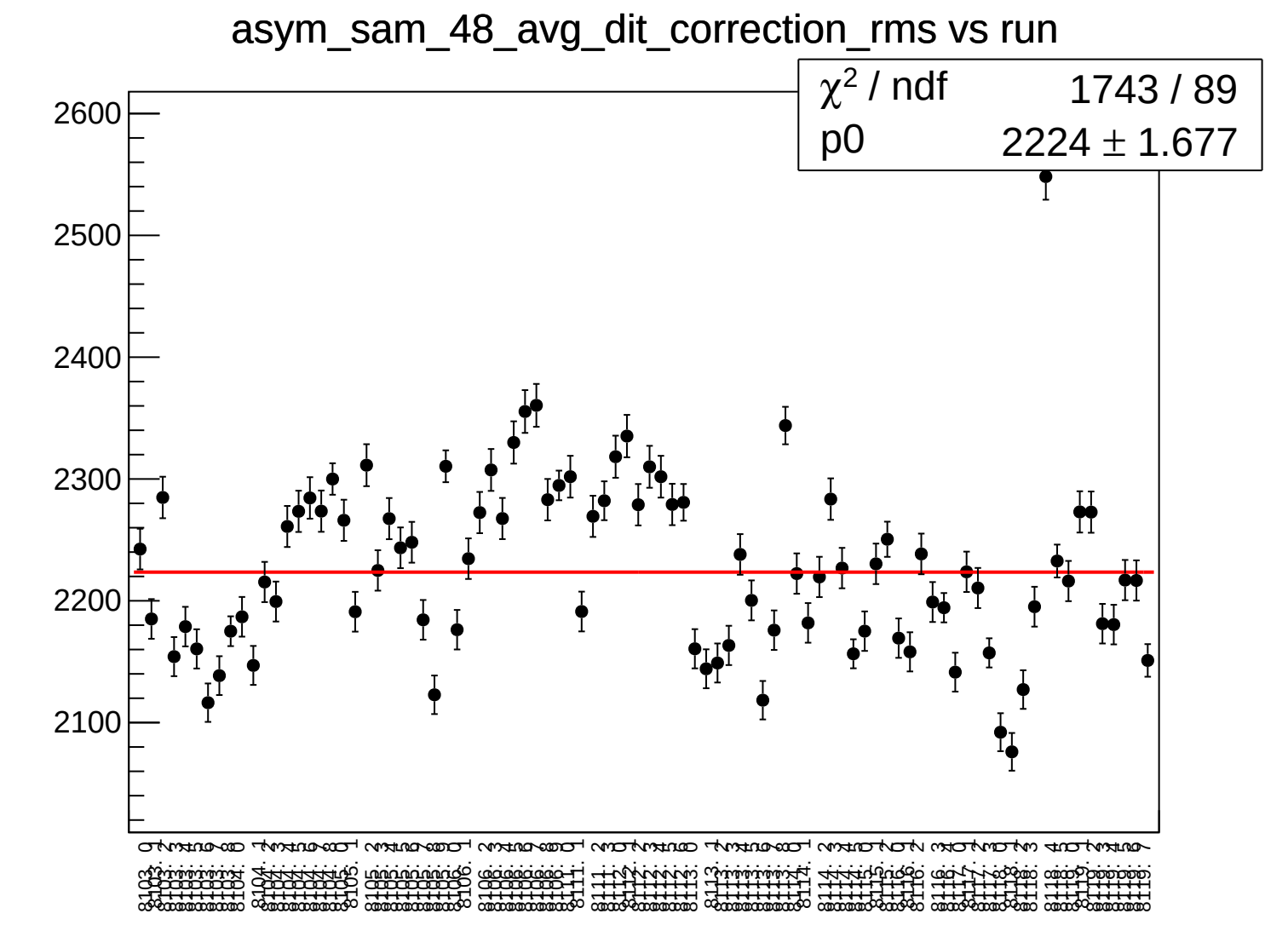

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2053 / 89
p0 2203 ± 1.662
2500
2400
2300
2200
2100
2000

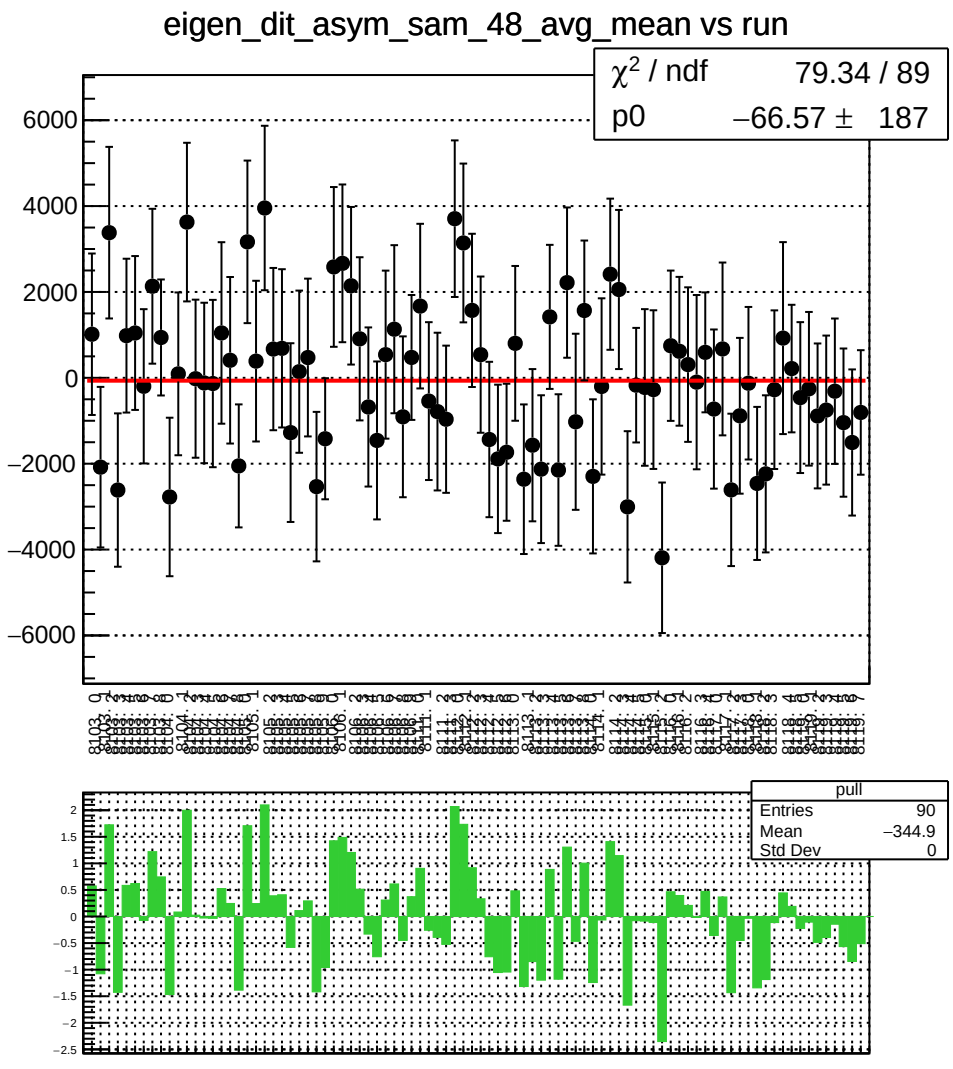

dit_asym_sam_48_avg_mean vs run
χ² / ndf 79.34 / 89
p0 −66.58 ± 187
pull
Entries 90
Mean −344.9
Std Dev 0
pull1D
Entries 90
Mean 0.0158
Std Dev 0.9388

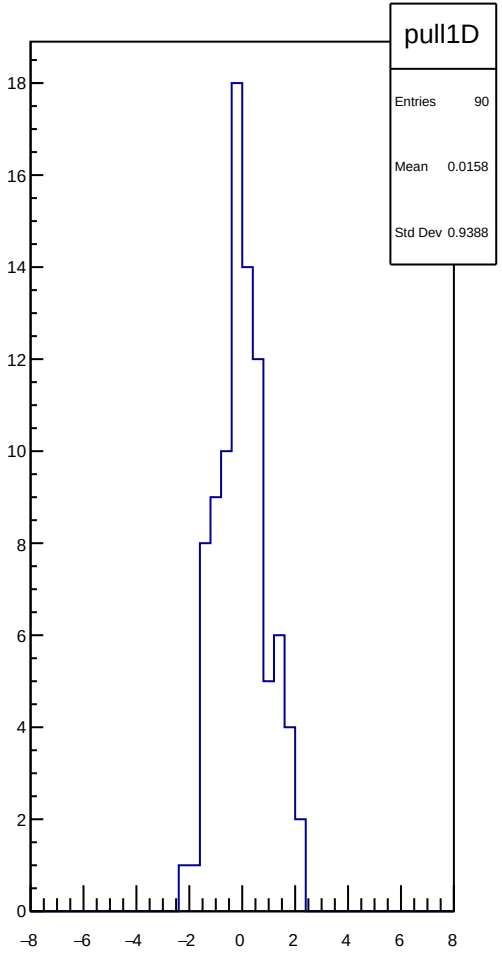

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 6526 / 89
p0 175 ± 0.1322
230
220
210
200
190
180
170
160

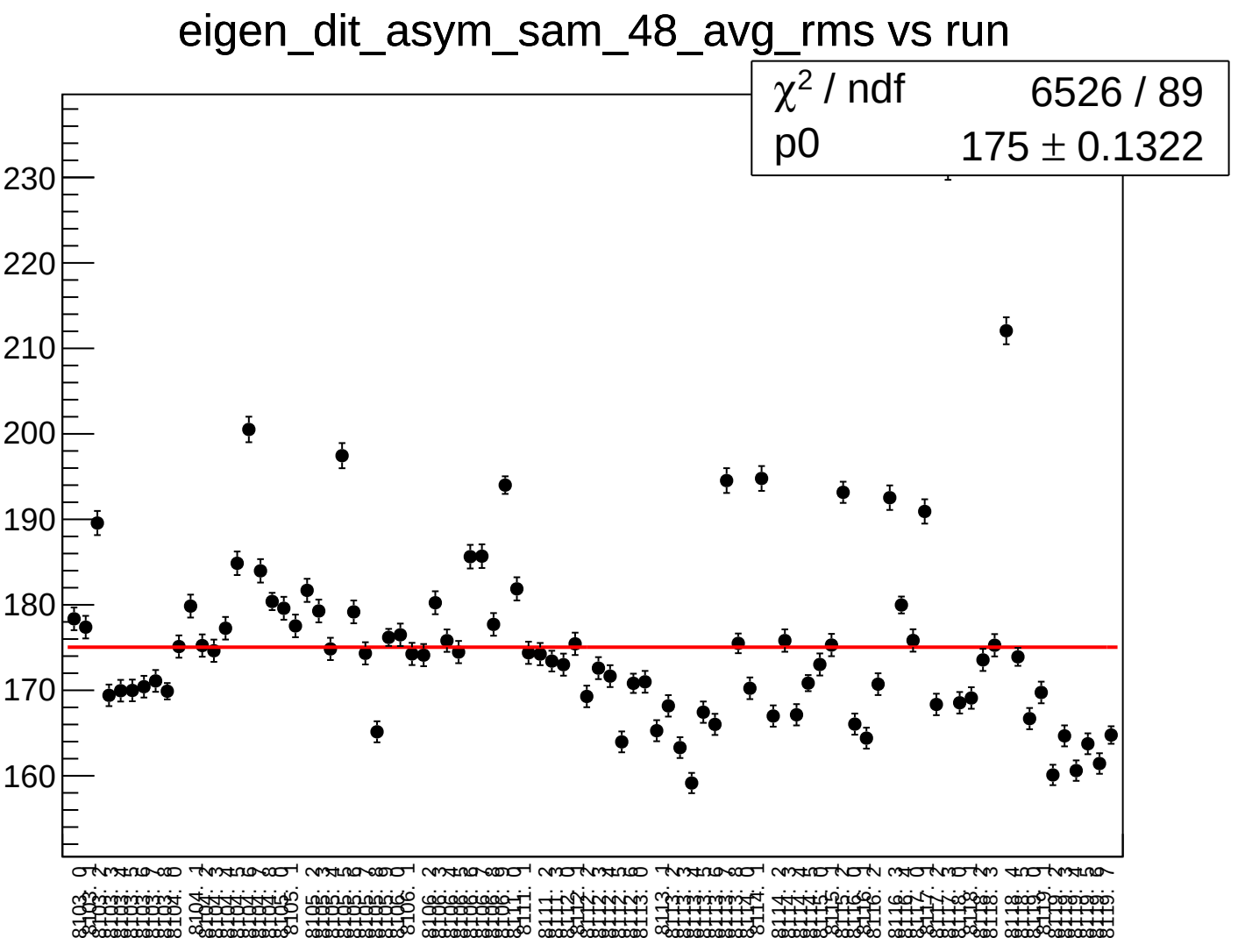

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.7 / 89
p0 −4694 ± 2372
100
50
0
−50
−100
pull
Entries 90
Mean −1226
Std Dev 0
2
1
0
−1
−2

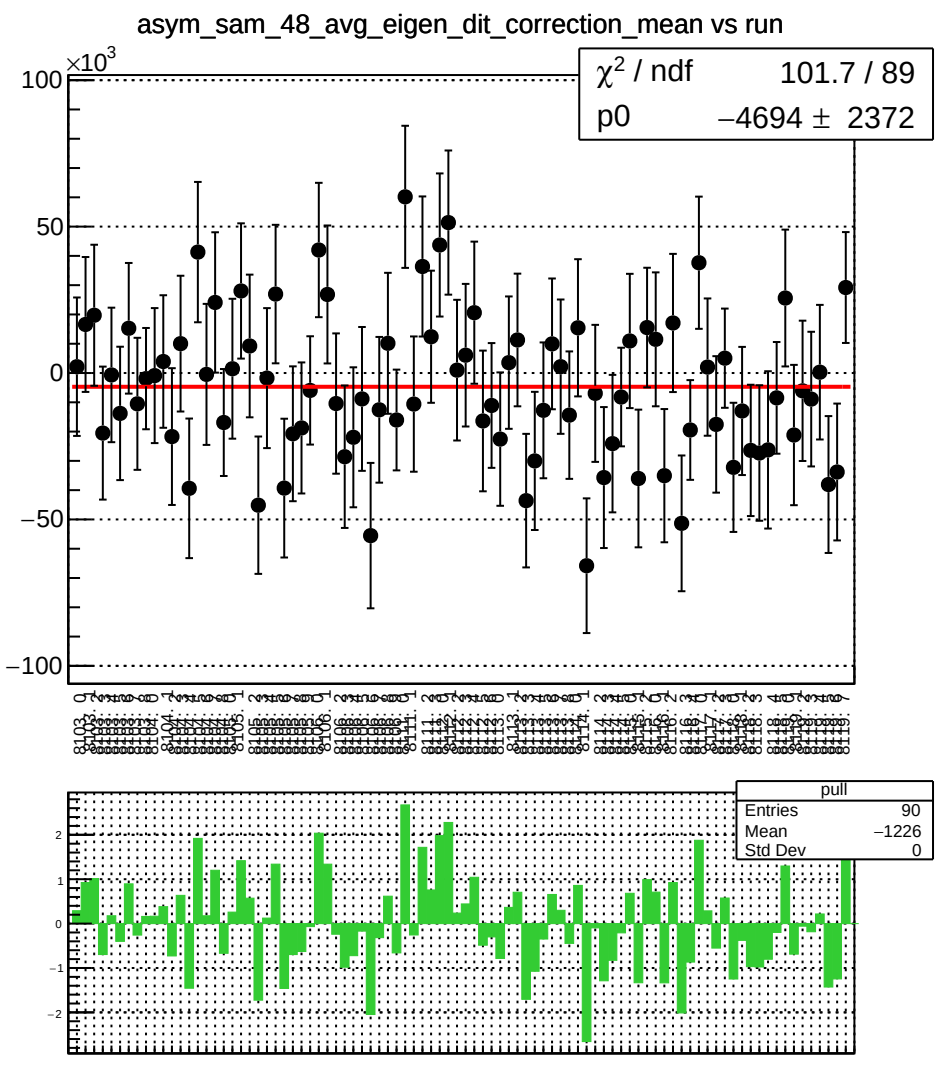

pull1D
Entries 90
Mean 0.003664
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

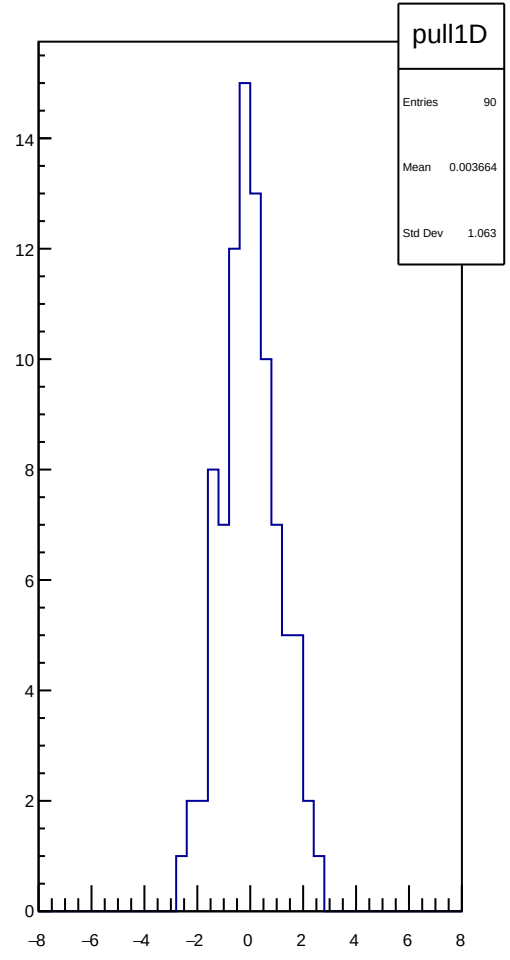

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1743 / 89
p0 2224 ± 1.677
2600
2500
2400
2300
2200
2100

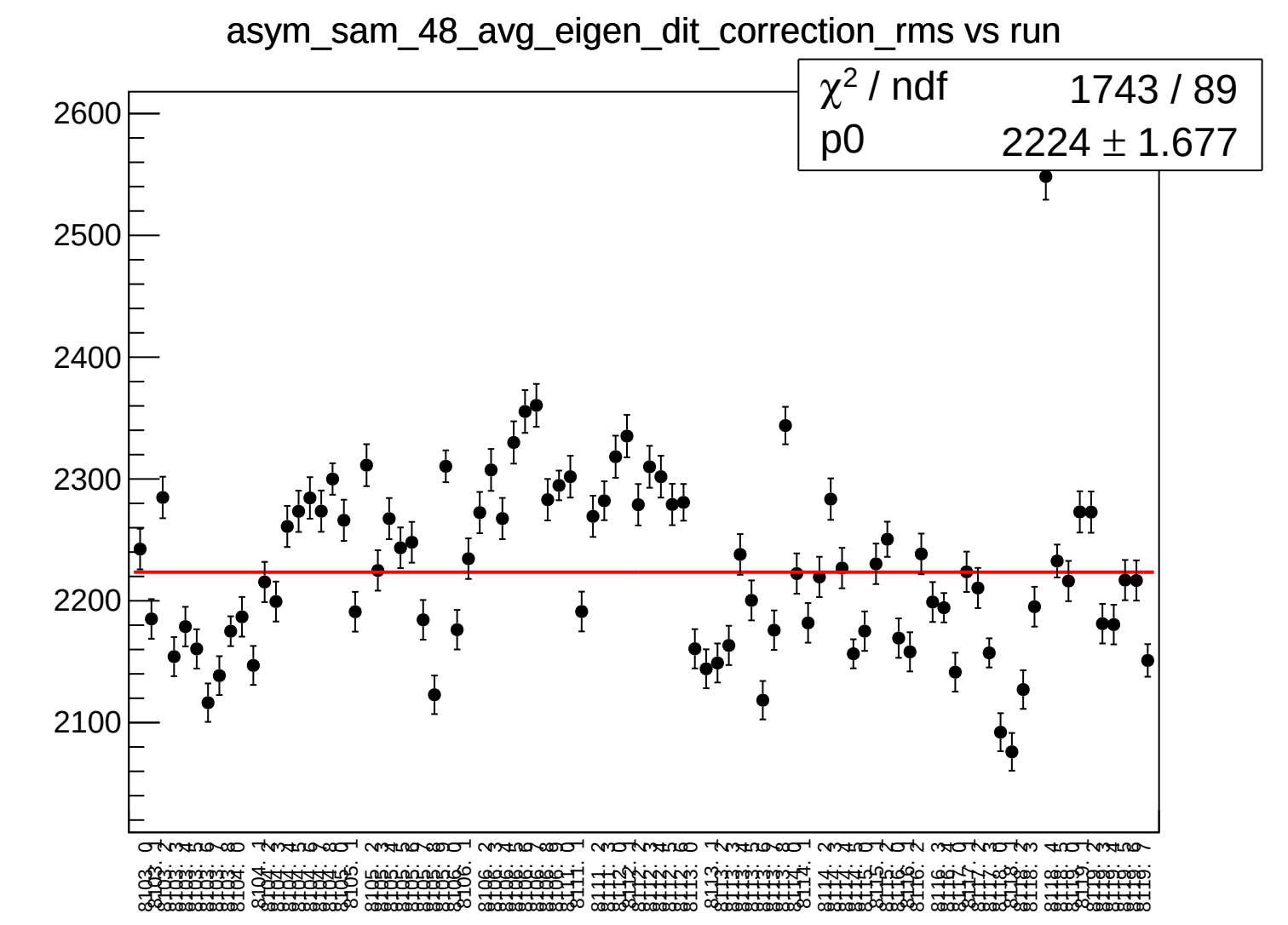

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 79.34 / 89
p0 −66.57 ± 187
pull
Entries 90
Mean −344.9
Std Dev 0

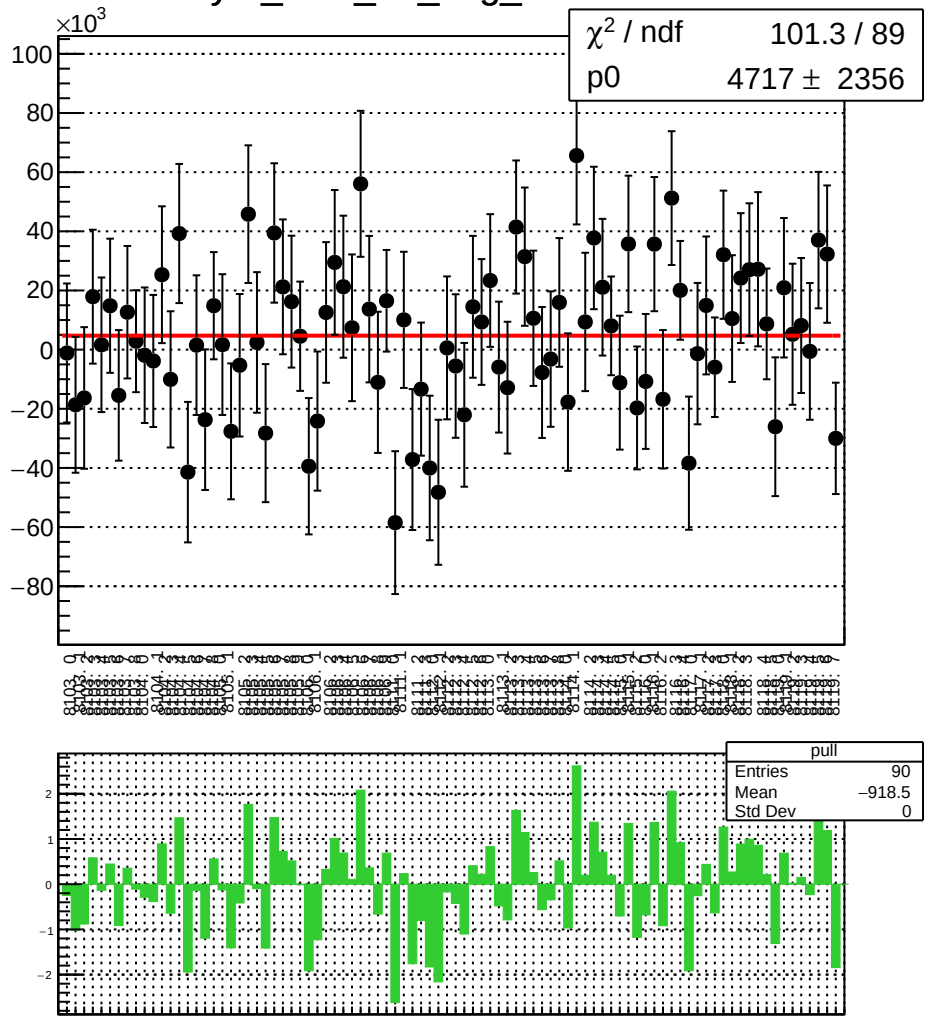

pull1D
Entries 90
Mean 0.0158
Std Dev 0.9388

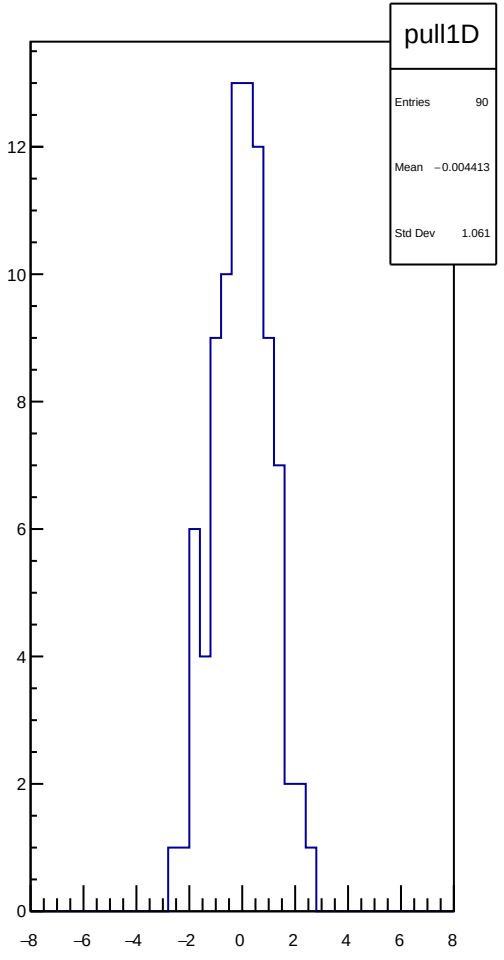

eigen_dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 6526 / 89
p0 175 ± 0.1322
230
220
210
200
190
180
170
160

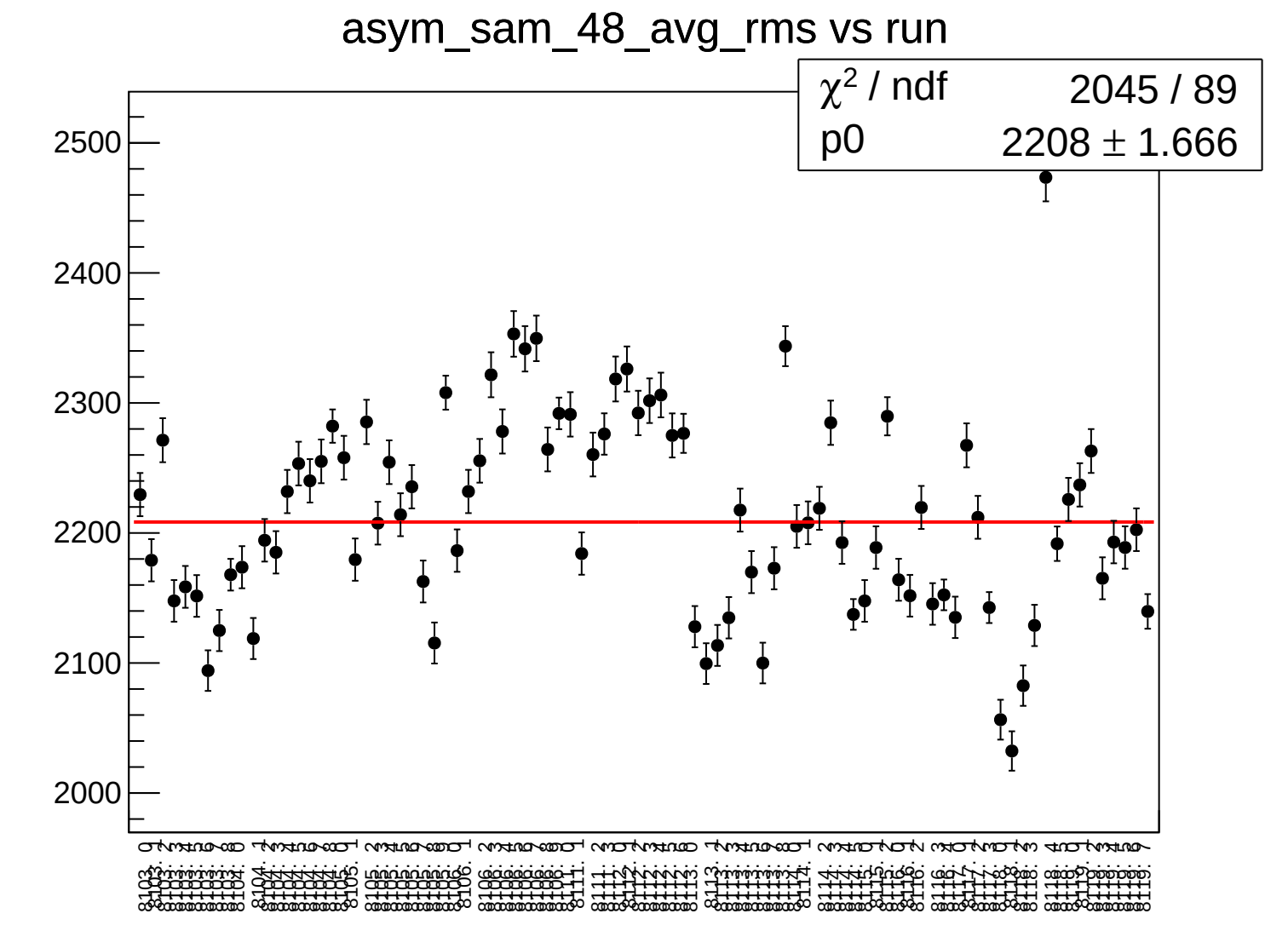

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.7 / 89
p0 −4694 ± 2372
pull
Entries 90
Mean −1226
Std Dev 0

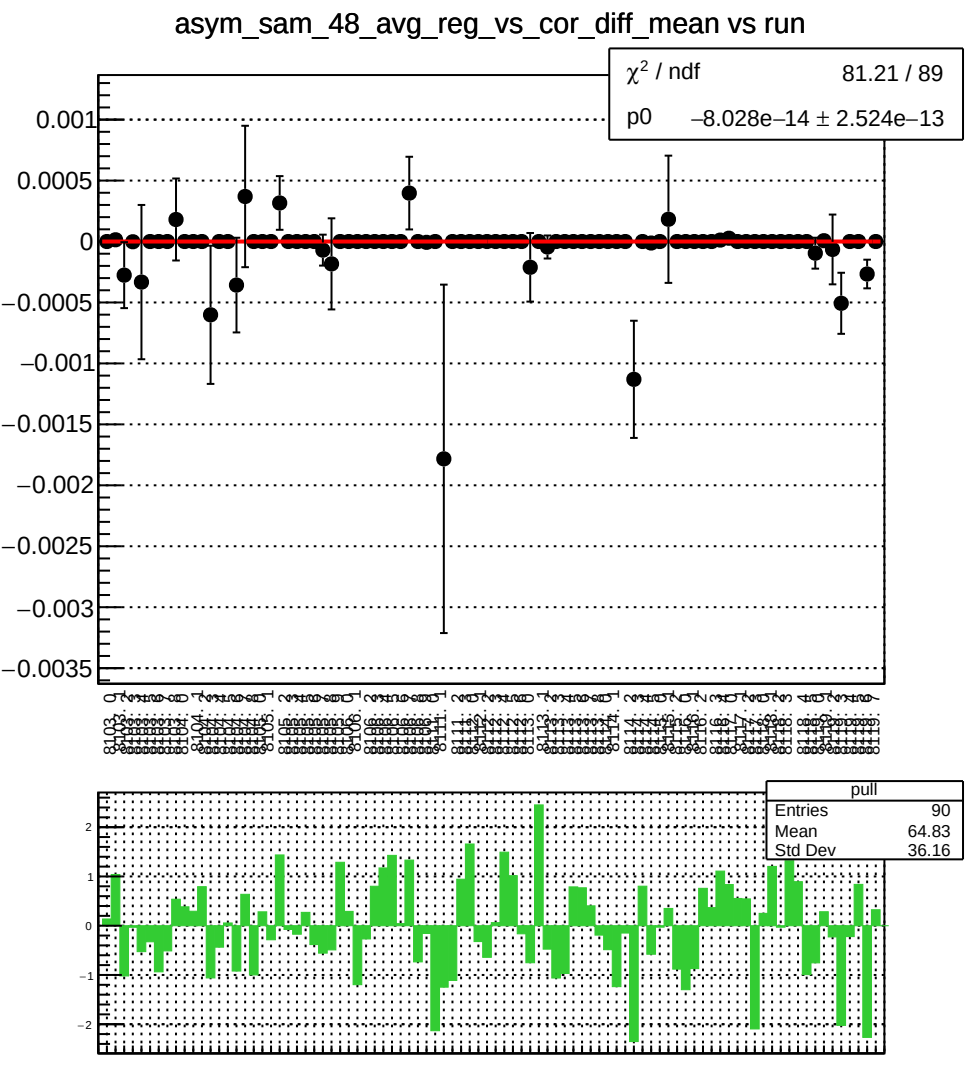

pull1D
Entries 90
Mean 0.003664
Std Dev 1.063

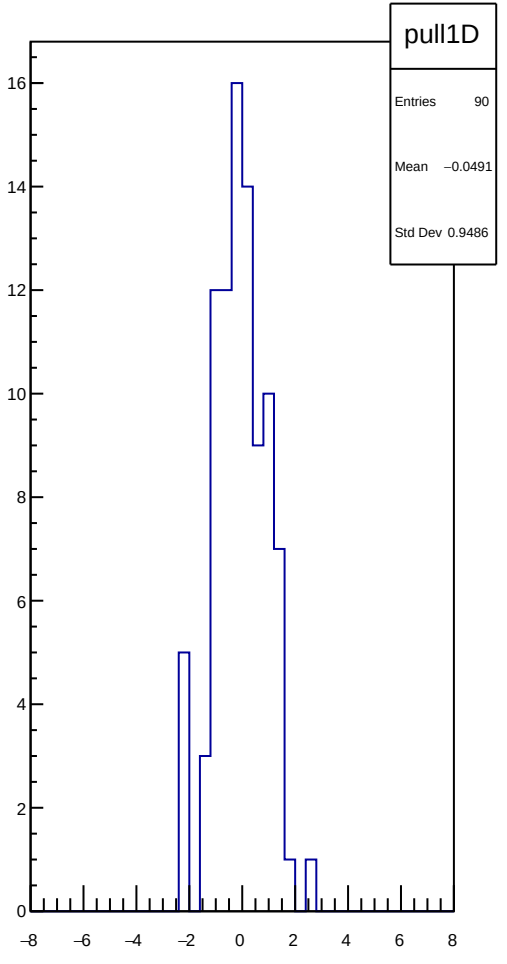

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1743 / 89
p0 2224 ± 1.677
2600
2500
2400
2300
2200
2100

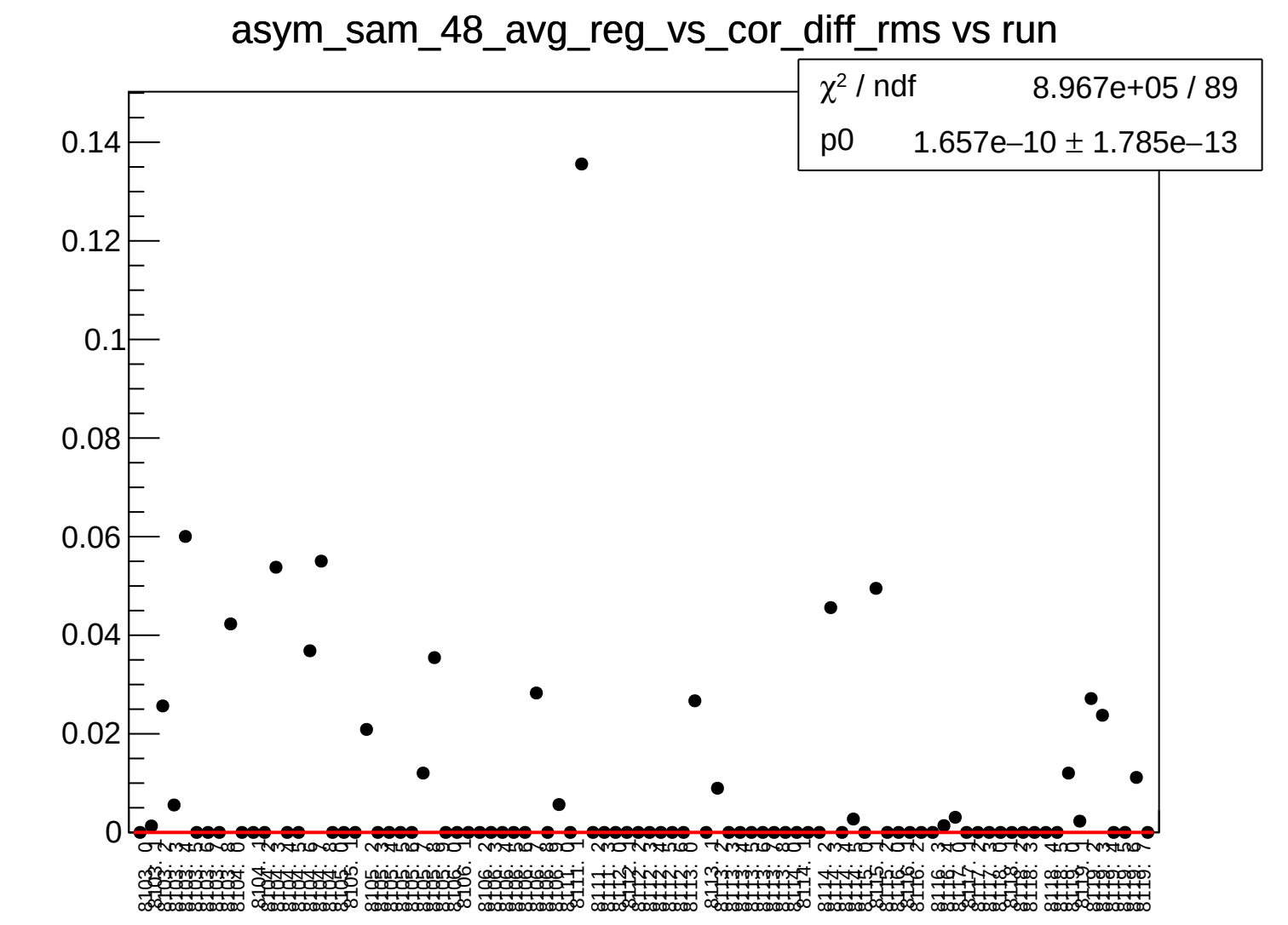

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 101.3 / 89
p0 4717 ± 2356
pull
Entries 90
Mean −918.5
Std Dev 0

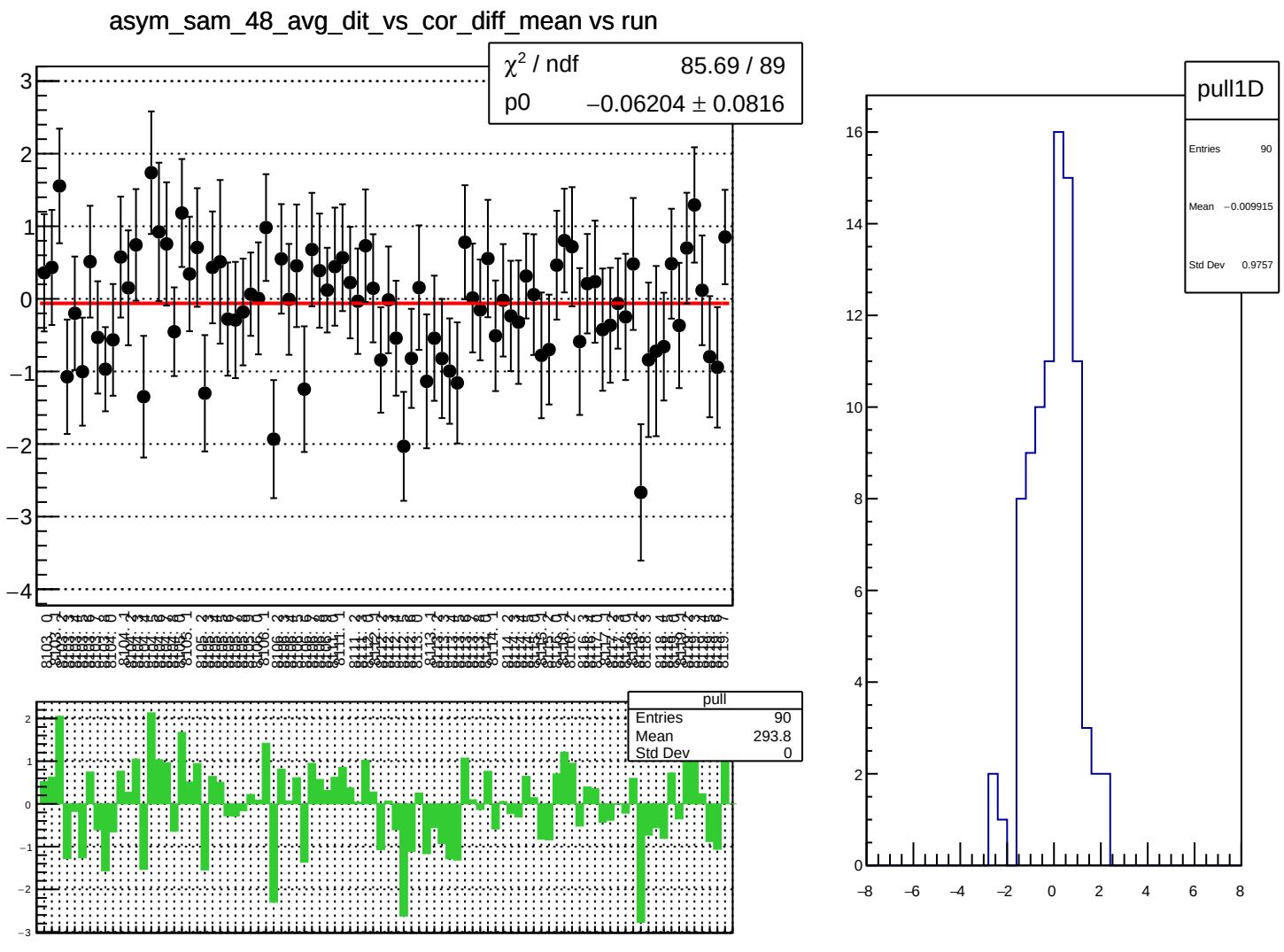

pull1D
Entries 90
Mean −0.004413
Std Dev 1.061

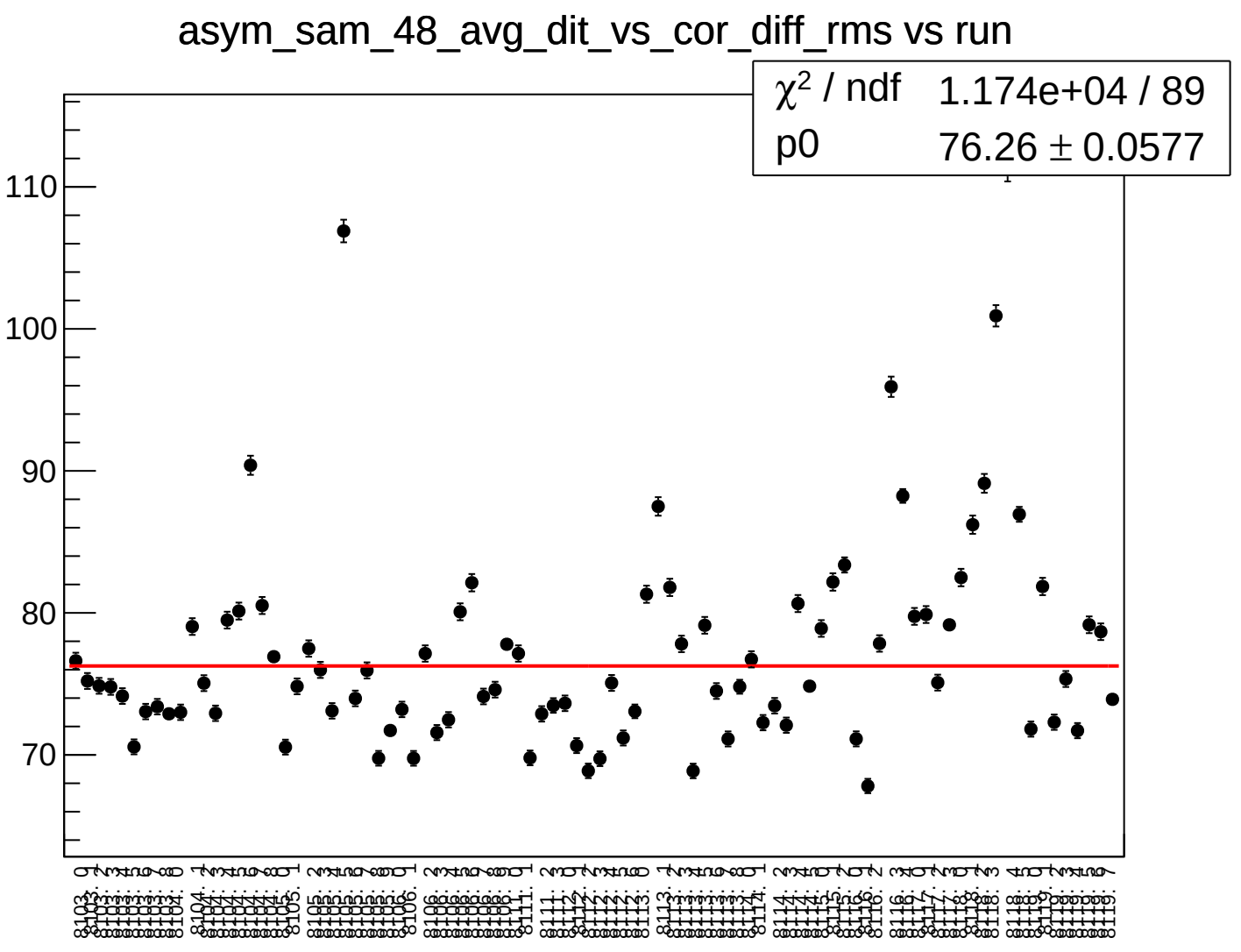

asym_sam_48_avg_rms vs run
χ^2 / ndf 2045 / 89
p0 2208 ± 1.666
2500
2400
2300
2200
2100
2000

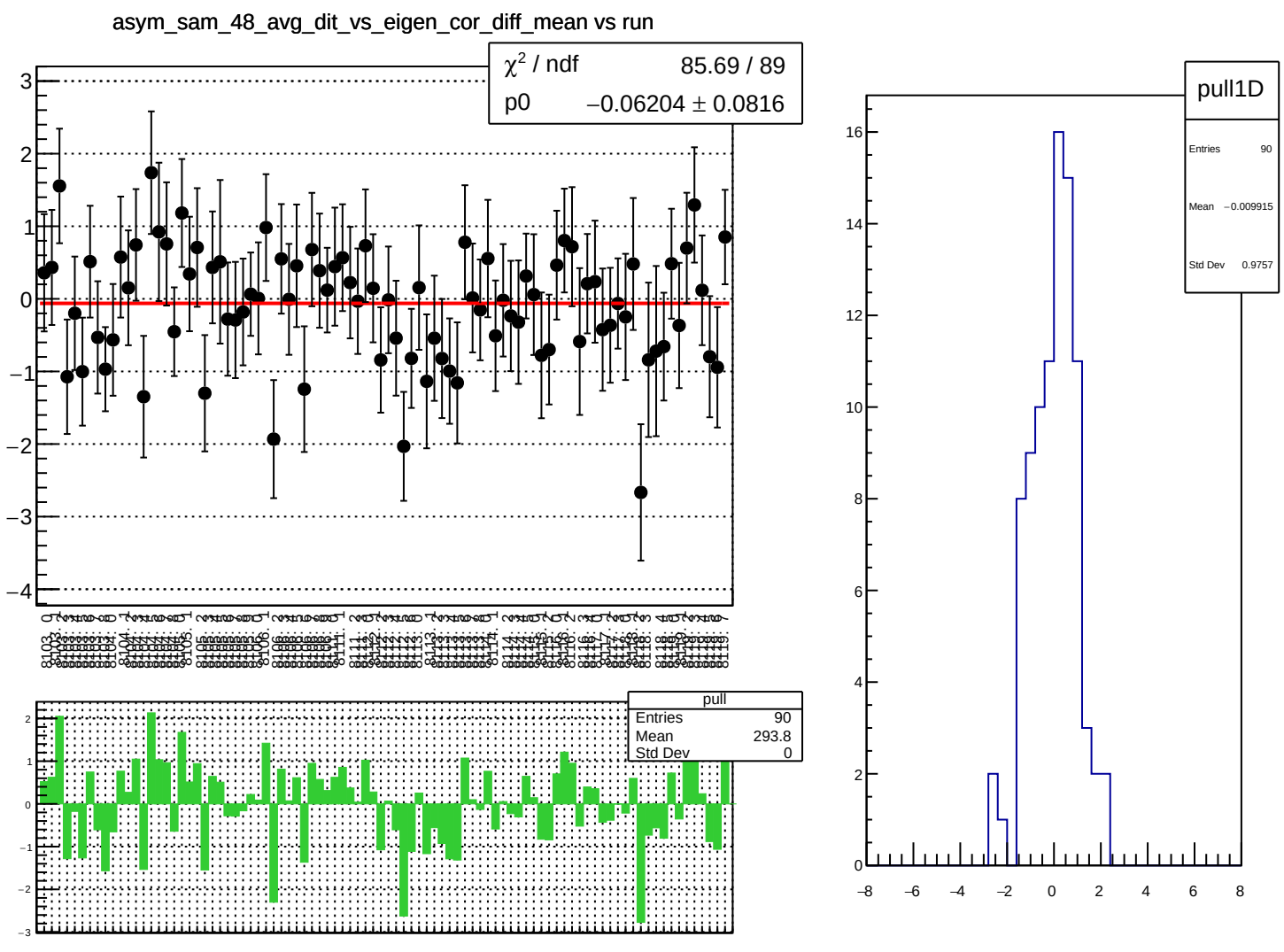

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.21 / 89
p0 −8.028e−14 ± 2.524e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
−0.0035
pull
Entries 90
Mean 64.83
Std Dev 36.16
2
1
0
−1
−2

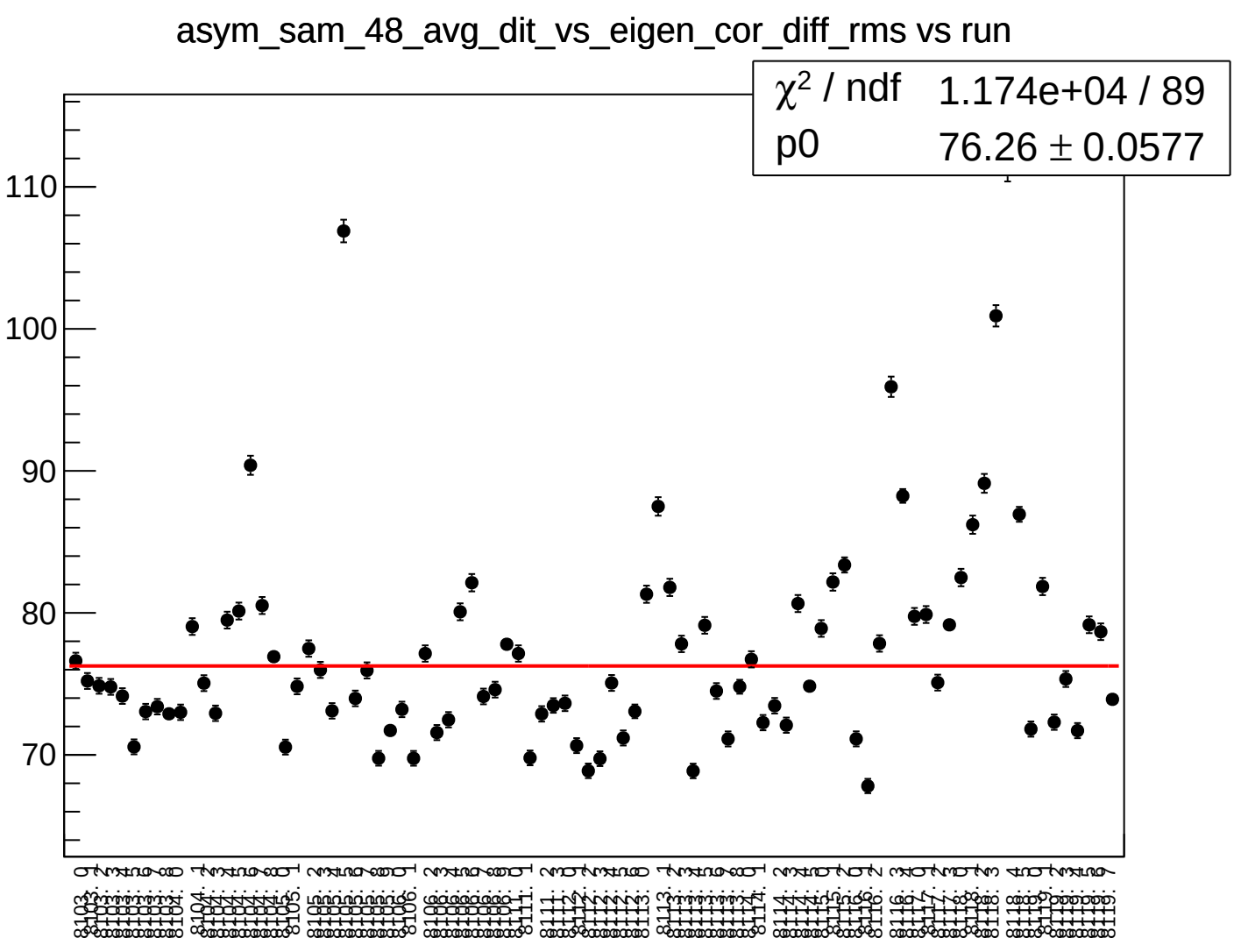

pull1D
Entries 90
Mean −0.0491
Std Dev 0.9486
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

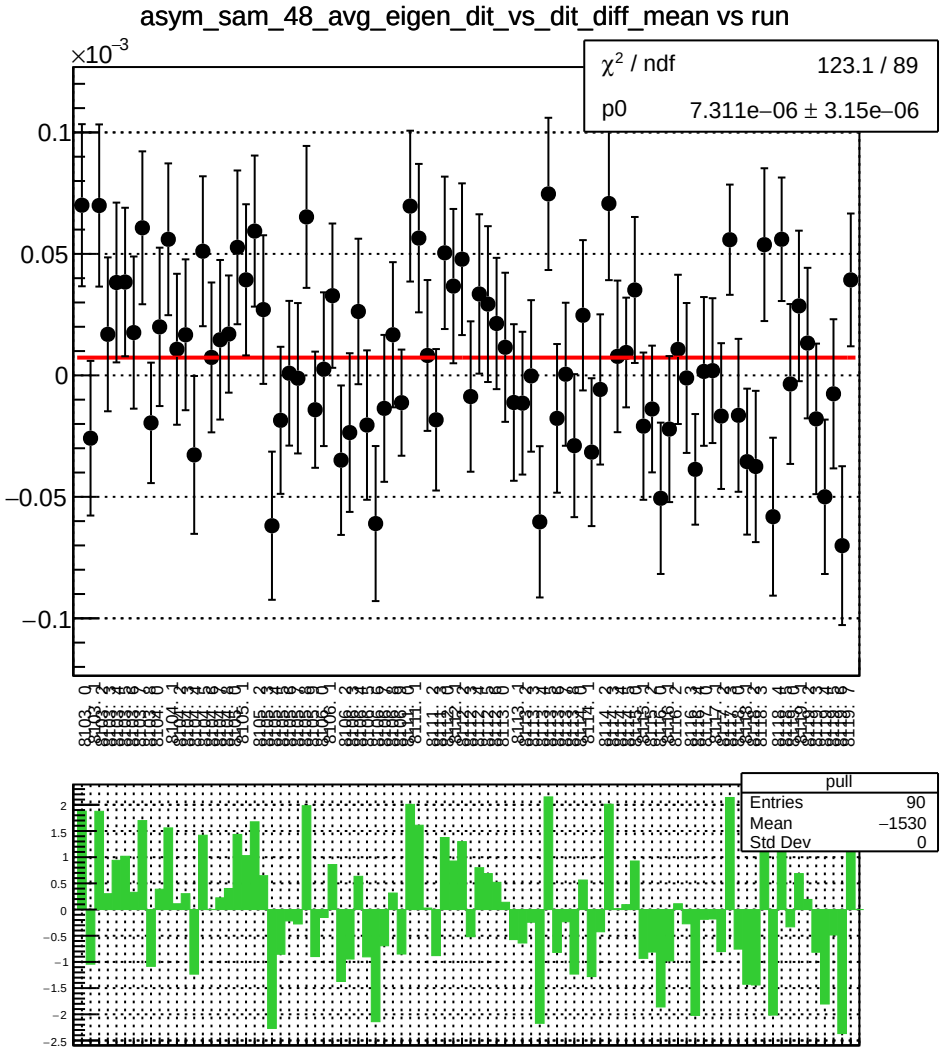

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.967e+05 / 89
p0 1.657e−10 ± 1.785e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

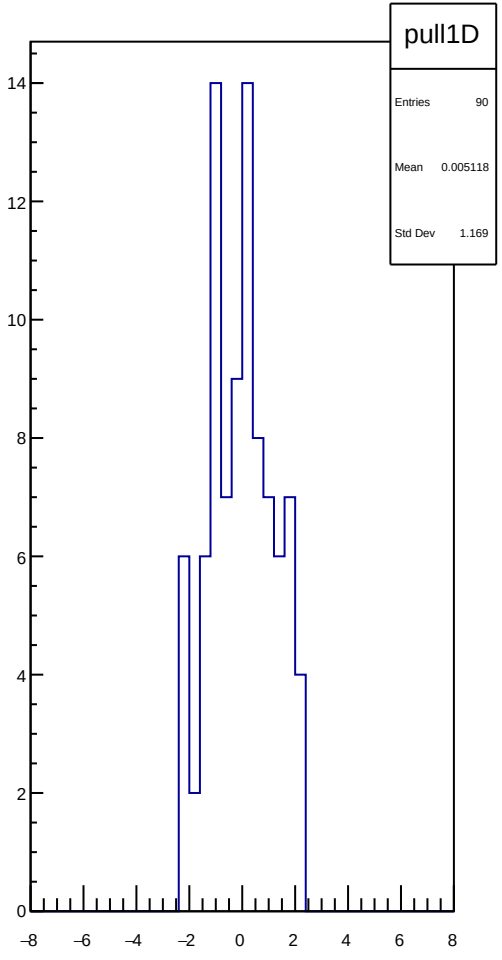

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.69 / 89
p0 −0.06204 ± 0.0816
pull
Entries 90
Mean 293.8
Std Dev 0
pull1D
Entries 90
Mean −0.009915
Std Dev 0.9757

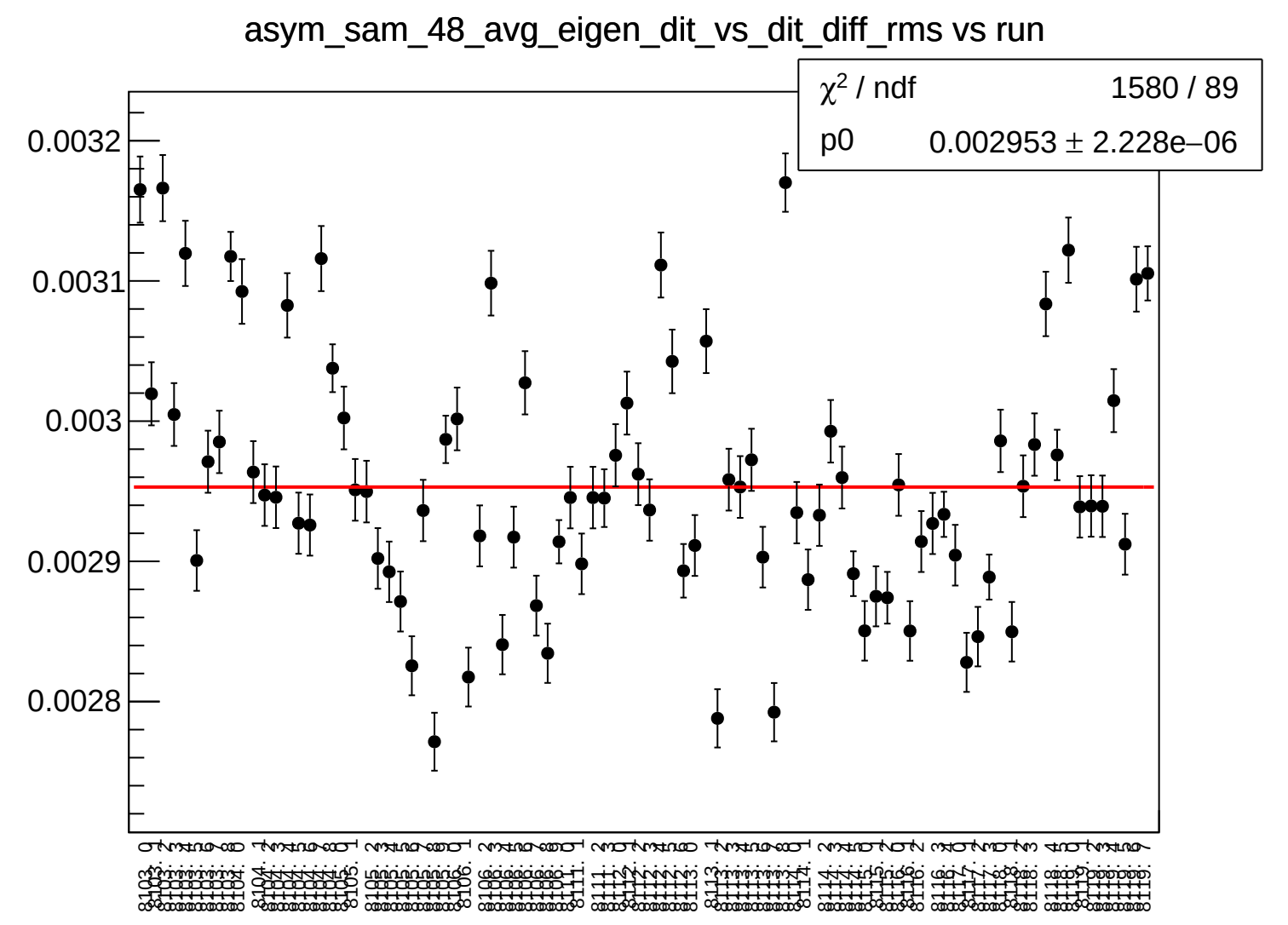

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.174e+04 / 89
p0 76.26 ± 0.0577
110
100
90
80
70

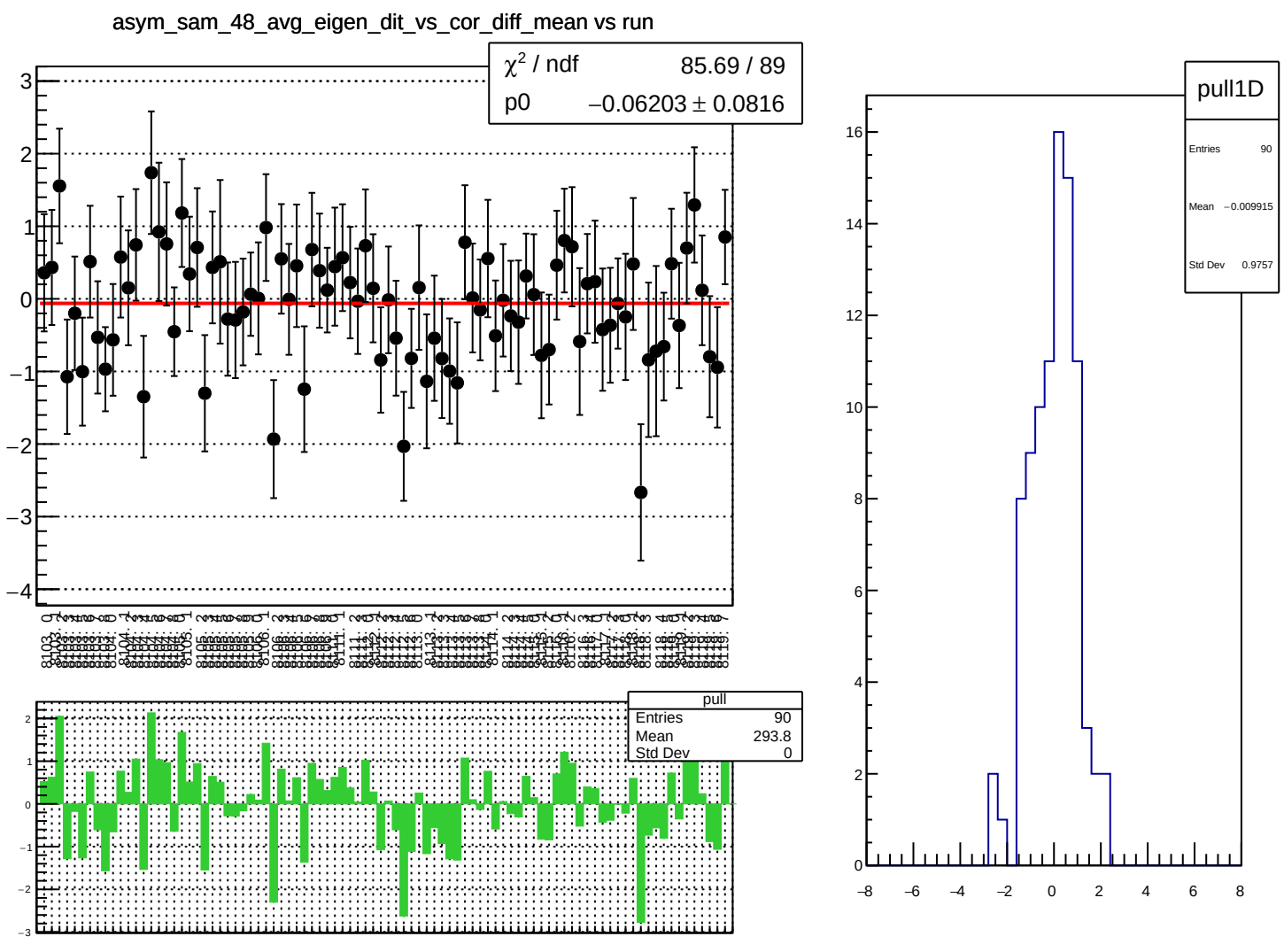

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.69 / 89
p0 −0.06204 ± 0.0816
pull
Entries 90
Mean 293.8
Std Dev 0
pull1D
Entries 90
Mean −0.009915
Std Dev 0.9757

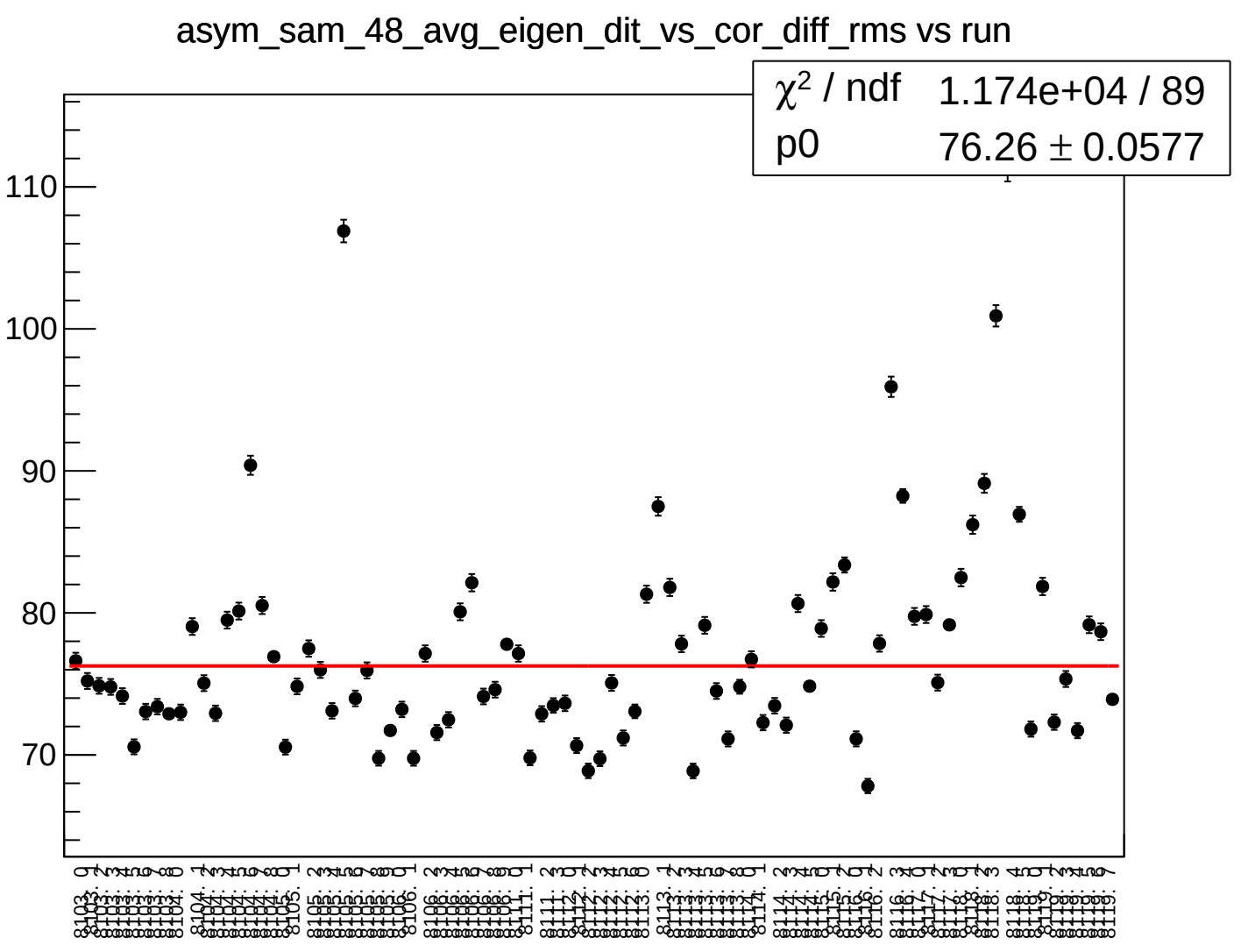

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.174e+04 / 89
p0 76.26 ± 0.0577
110
100
90
80
70

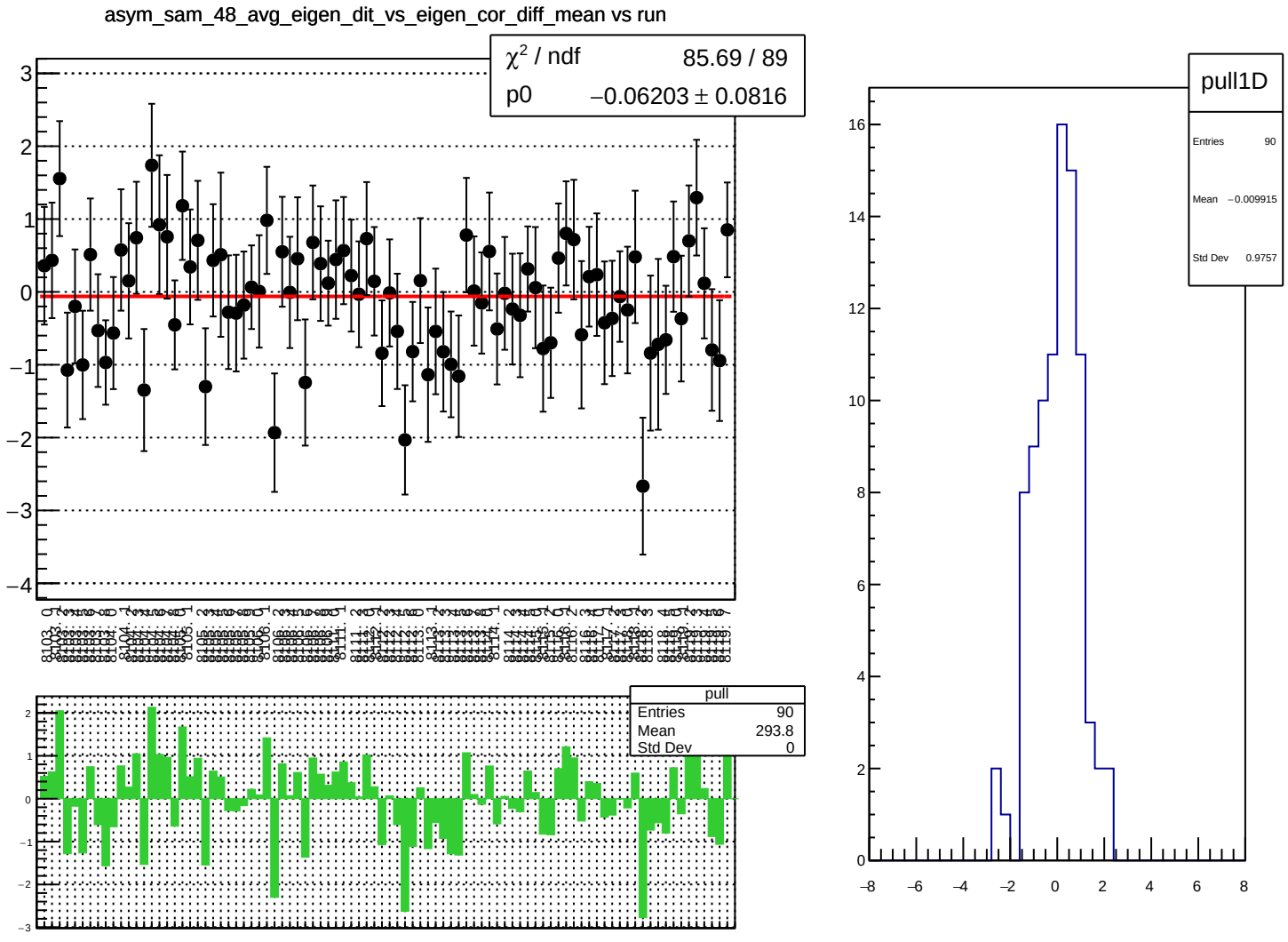

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 123.1 / 89
p0 7.311e−06 ± 3.15e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −1530
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

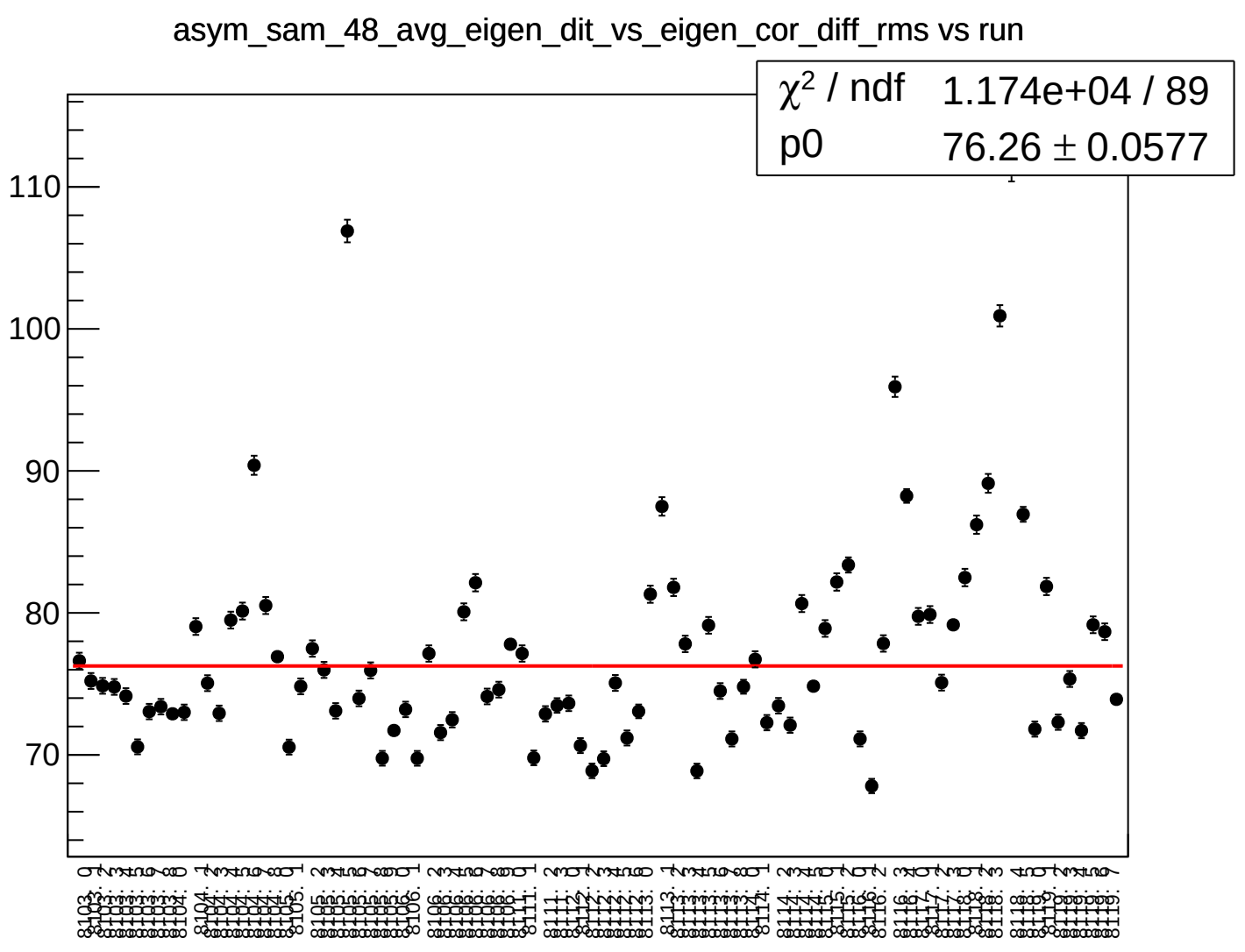

pull1D
Entries 90
Mean 0.005118
Std Dev 1.169
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

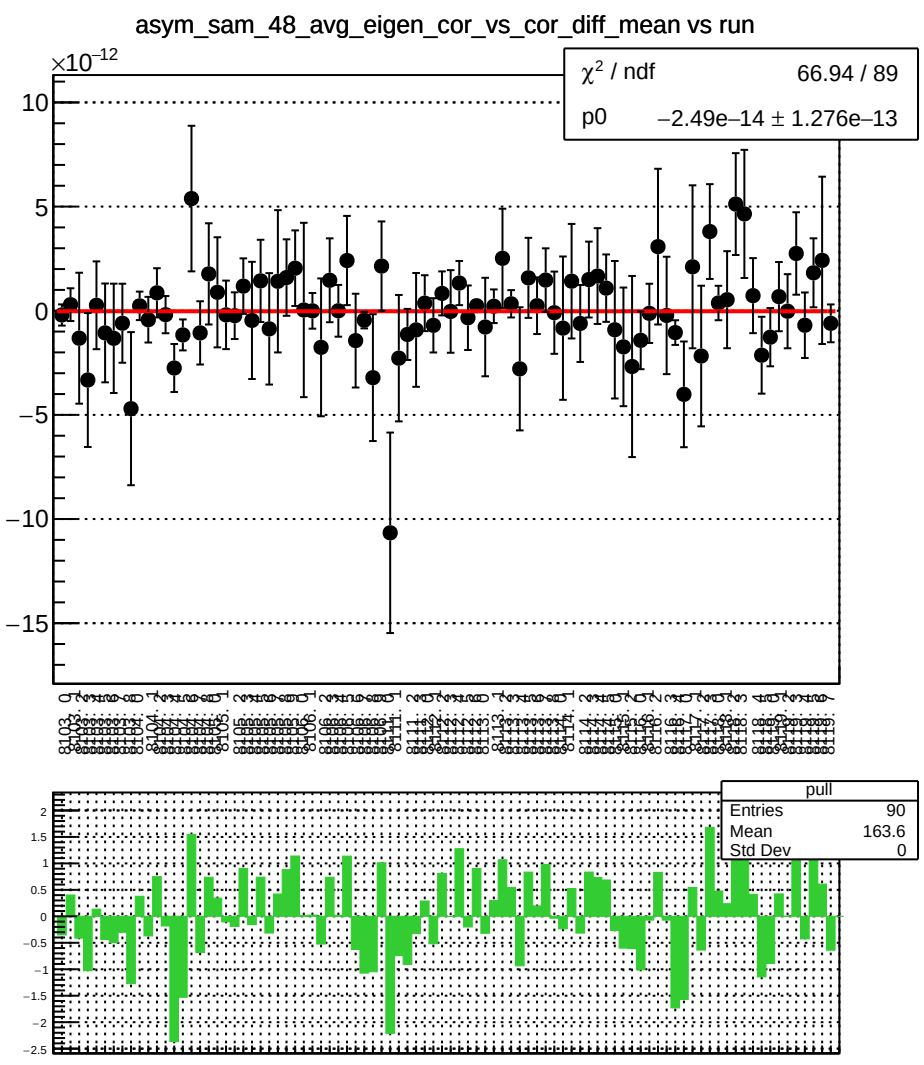

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1580 / 89
p0 0.002953 ± 2.228e−06
0.0032
0.0031
0.003
0.0029
0.0028

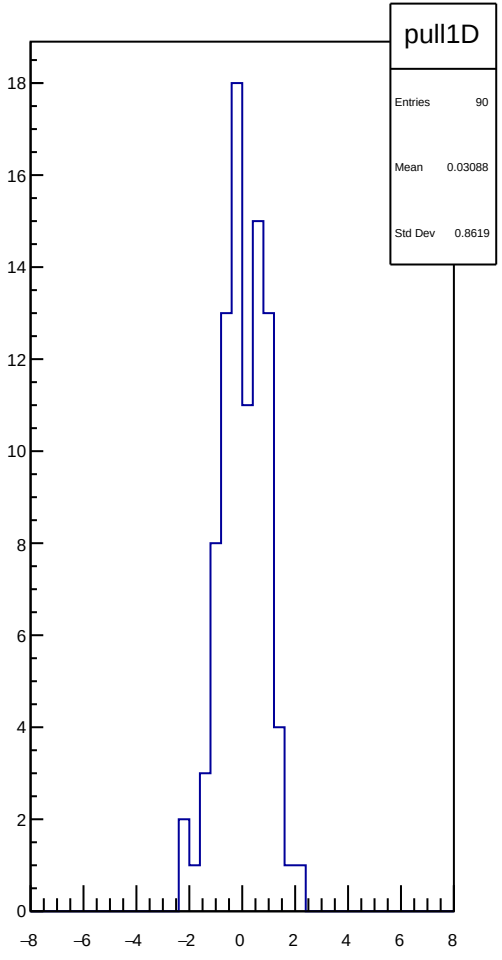

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.69 / 89
p0 −0.06203 ± 0.0816
pull
Entries 90
Mean 293.8
Std Dev 0
pull1D
Entries 90
Mean −0.009915
Std Dev 0.9757

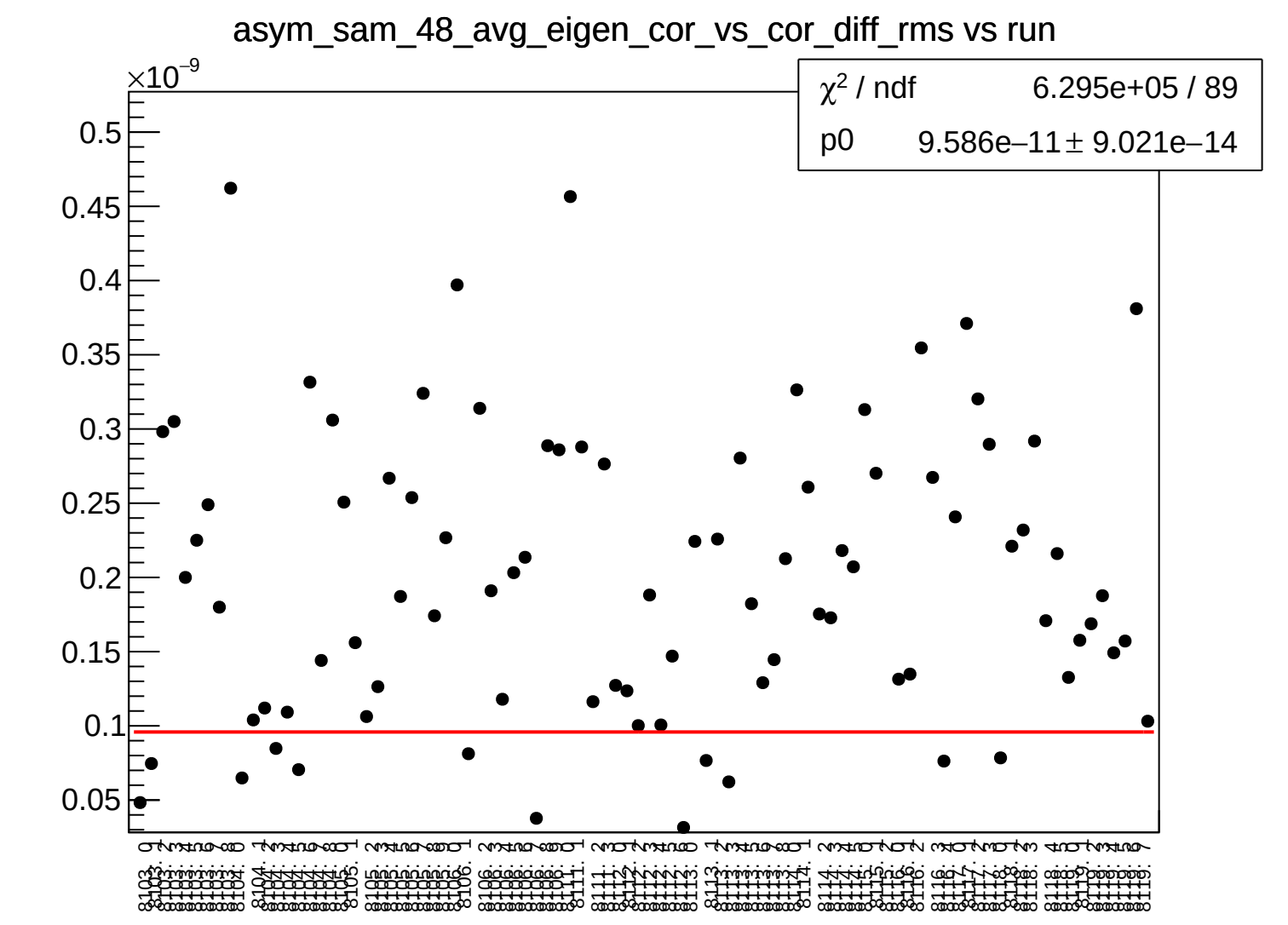

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.174e+04 / 89
p0 76.26 ± 0.0577
110
100
90
80
70

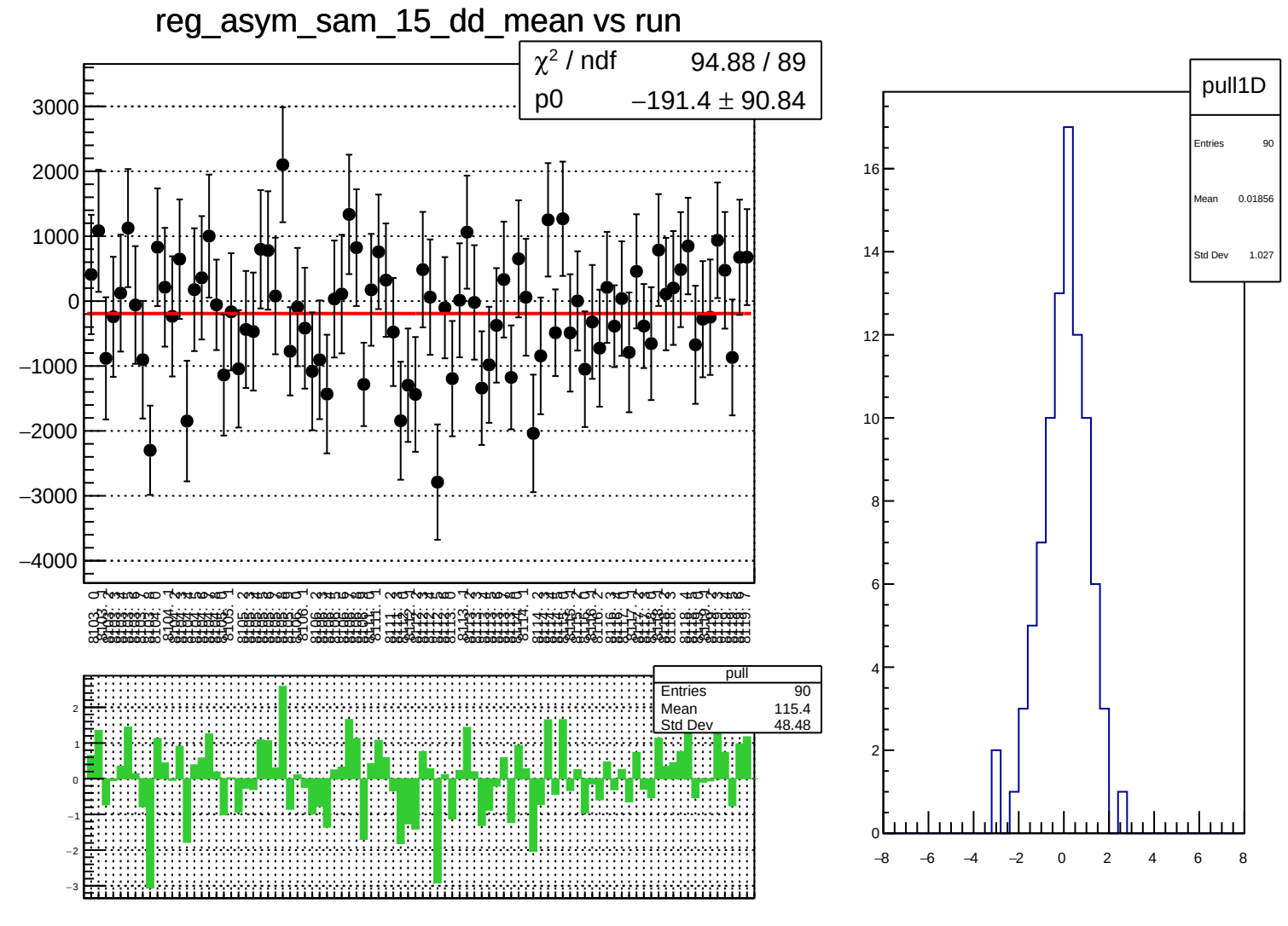

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.69 / 89
p0 −0.06203 ± 0.0816
pull
Entries 90
Mean 293.8
Std Dev 0
pull1D
Entries 90
Mean −0.009915
Std Dev 0.9757

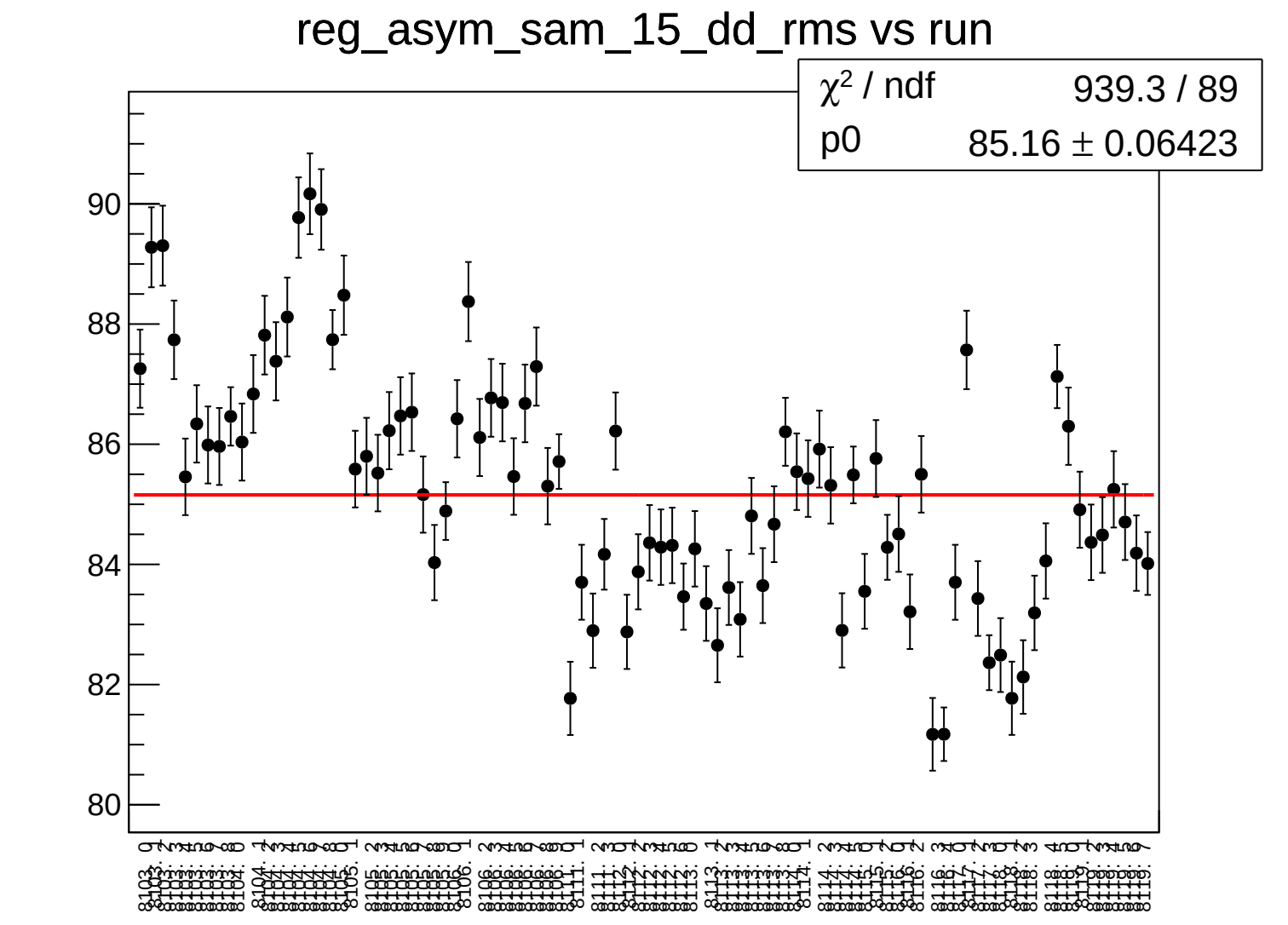

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.174e+04 / 89
p0 76.26 ± 0.0577
110
100
90
80
70

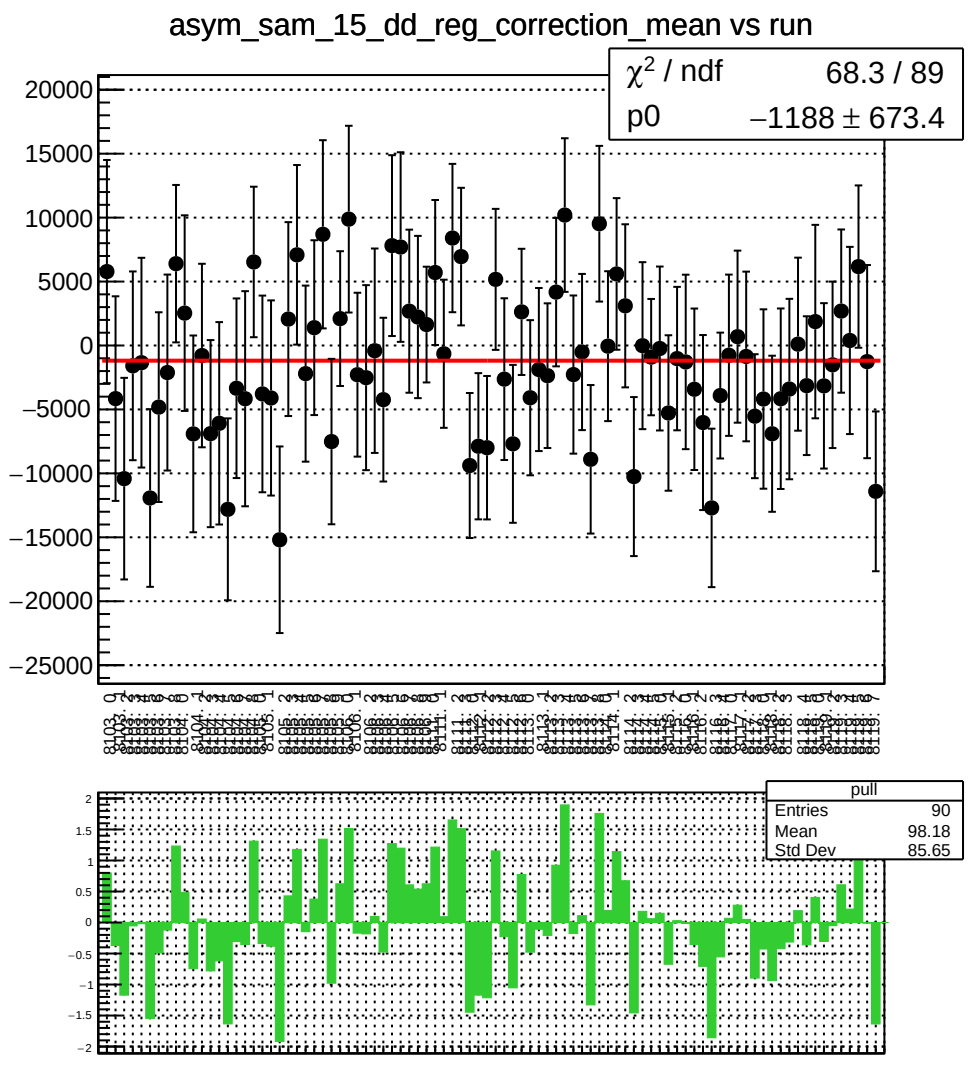

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.94 / 89
p0 −2.49e−14 ± 1.276e−13
pull
Entries 90
Mean 163.6
Std Dev 0

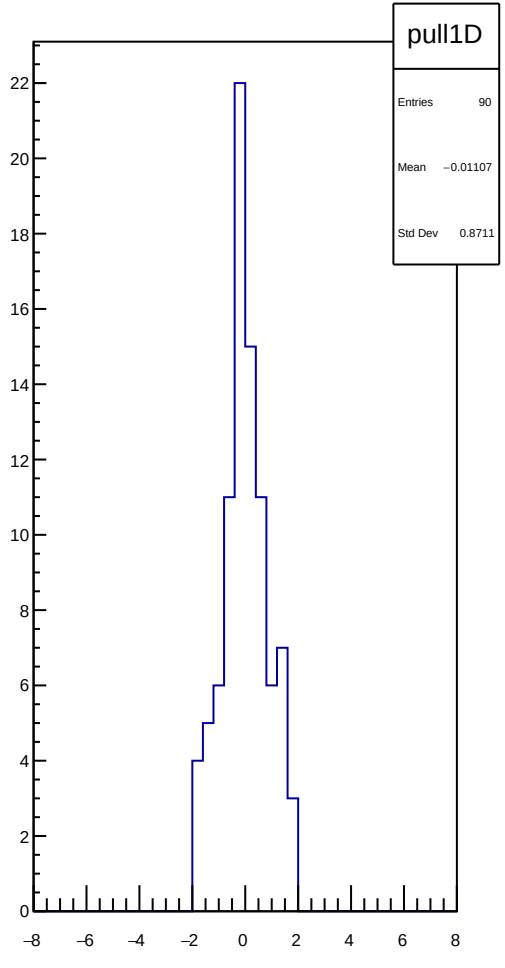

pull1D
Entries 90
Mean 0.03088
Std Dev 0.8619

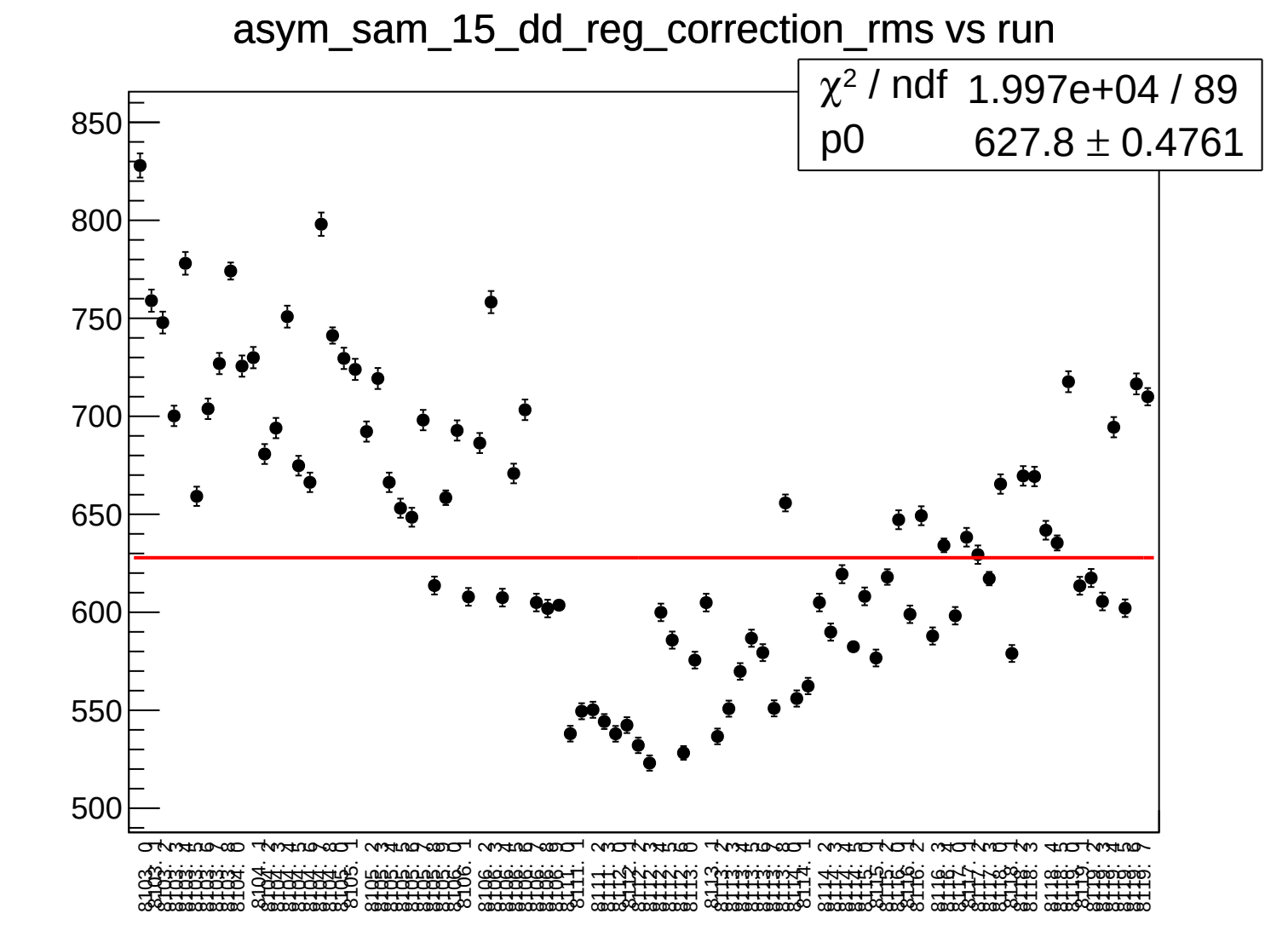

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.295e+05 / 89
p0 9.586e−11 ± 9.021e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

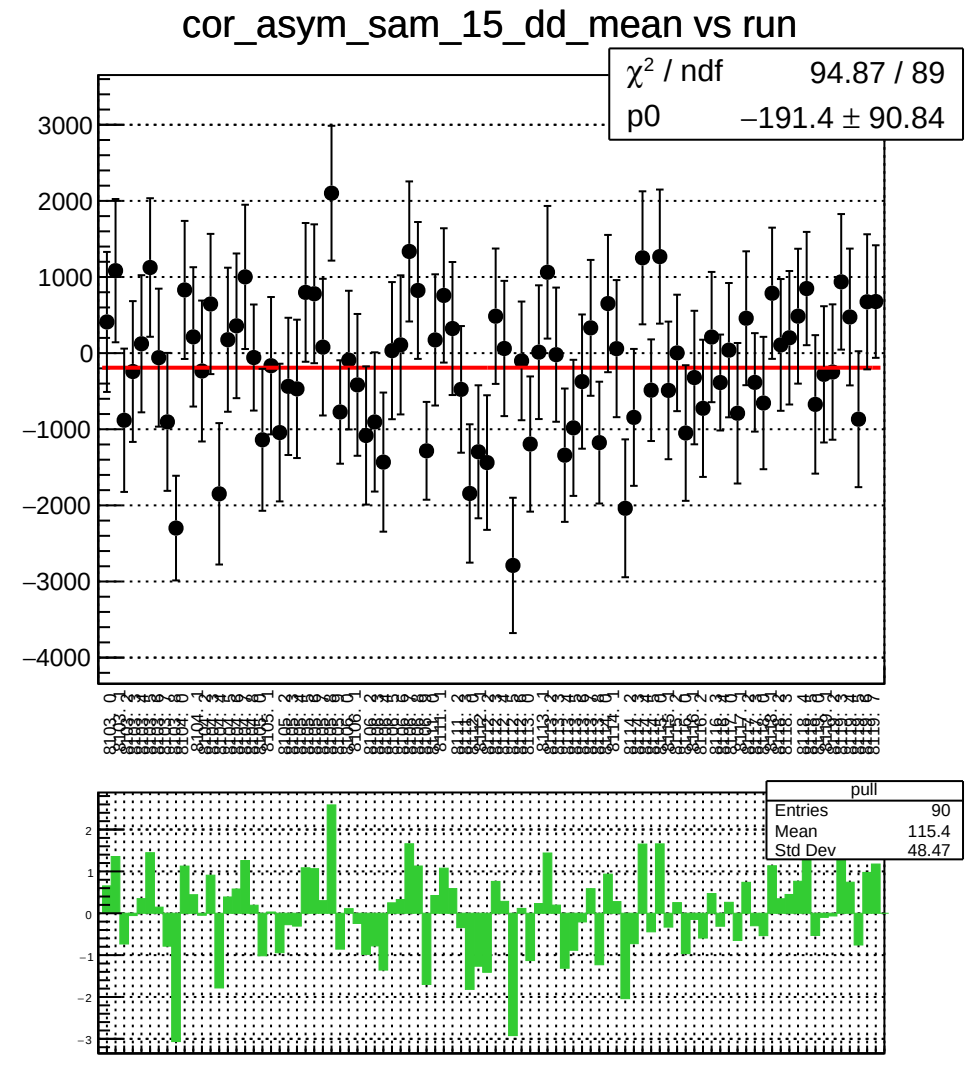

reg_asym_sam_15_dd_mean vs run
χ² / ndf 94.88 / 89
p0 −191.4 ± 90.84
pull
Entries 90
Mean 115.4
Std Dev 48.48
pull1D
Entries 90
Mean 0.01856
Std Dev 1.027

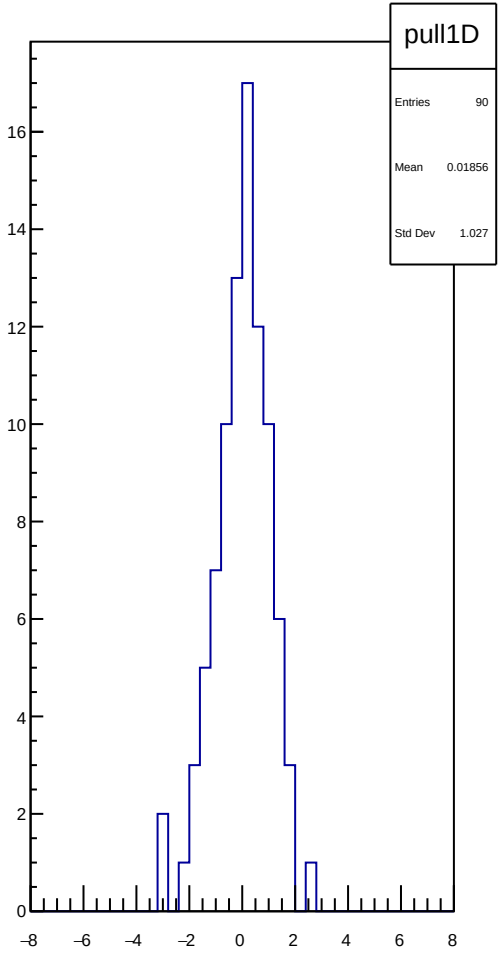

reg_asym_sam_15_dd_rms vs run
χ² / ndf 939.3 / 89
p0 85.16 ± 0.06423
90
88
86
84
82
80

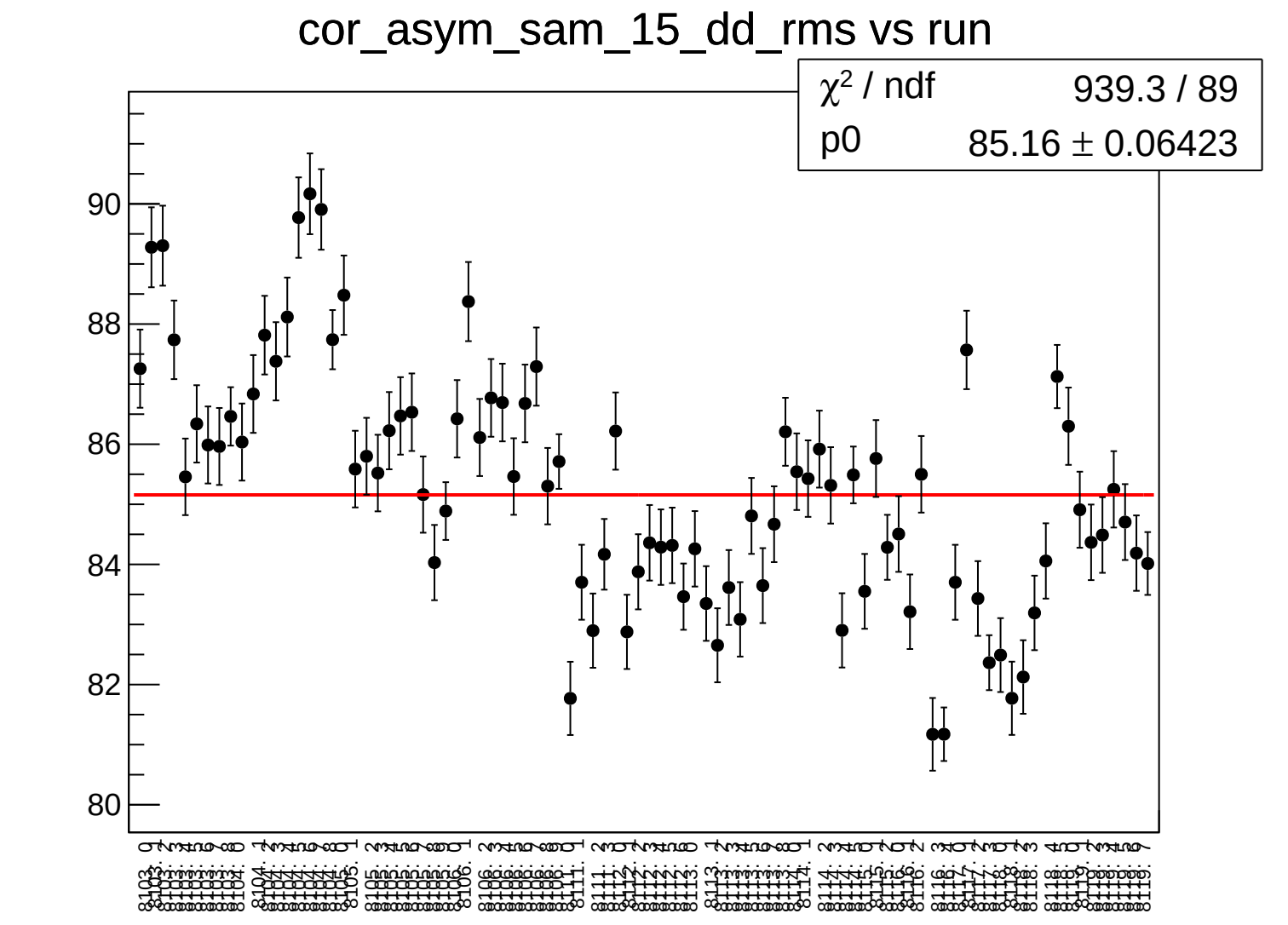

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 68.3 / 89
p0 −1188 ± 673.4
pull
Entries 90
Mean 98.18
Std Dev 85.65

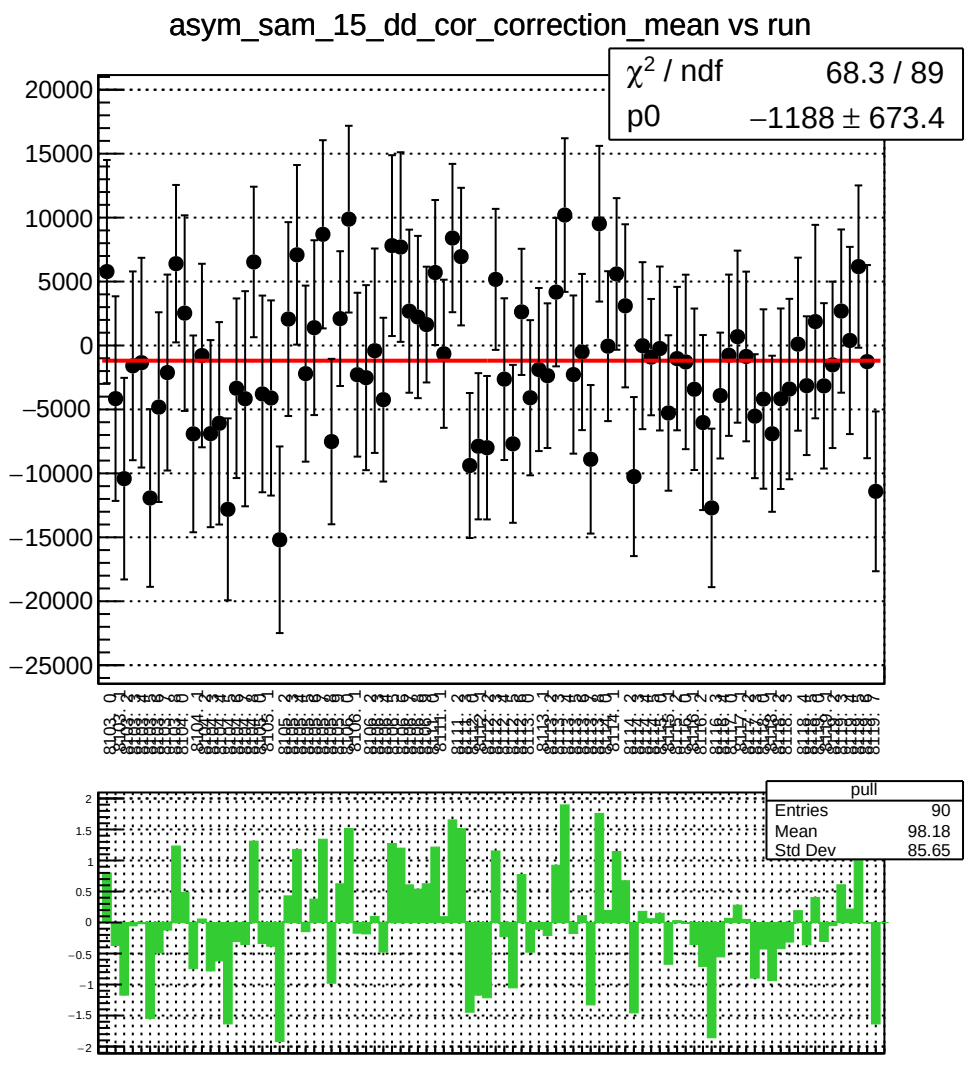

pull1D
Entries 90
Mean −0.01107
Std Dev 0.8711

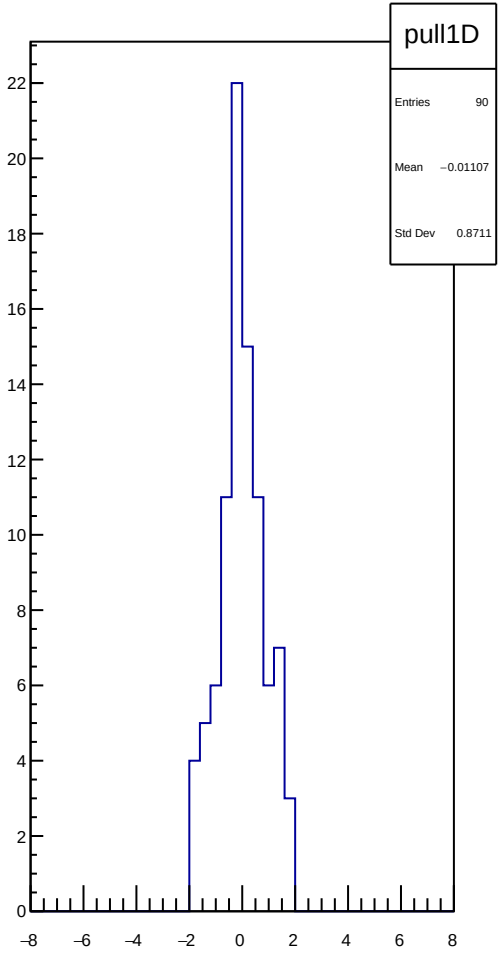

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1.997e+04 / 89
p0 627.8 ± 0.4761
850
800
750
700
650
600
550
500

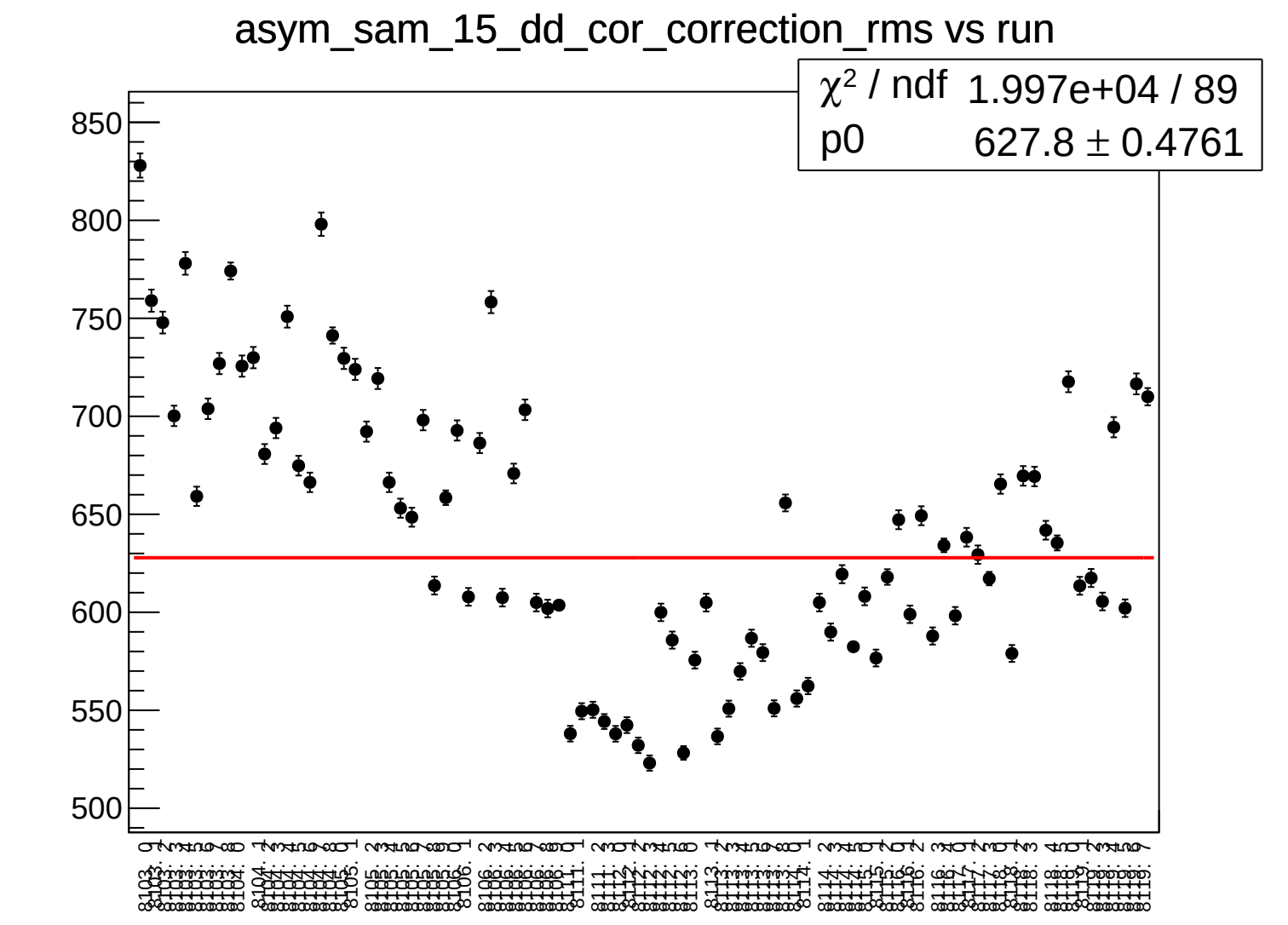

cor_asym_sam_15_dd_mean vs run
χ² / ndf 94.87 / 89
p0 −191.4 ± 90.84
pull
Entries 90
Mean 115.4
Std Dev 48.47

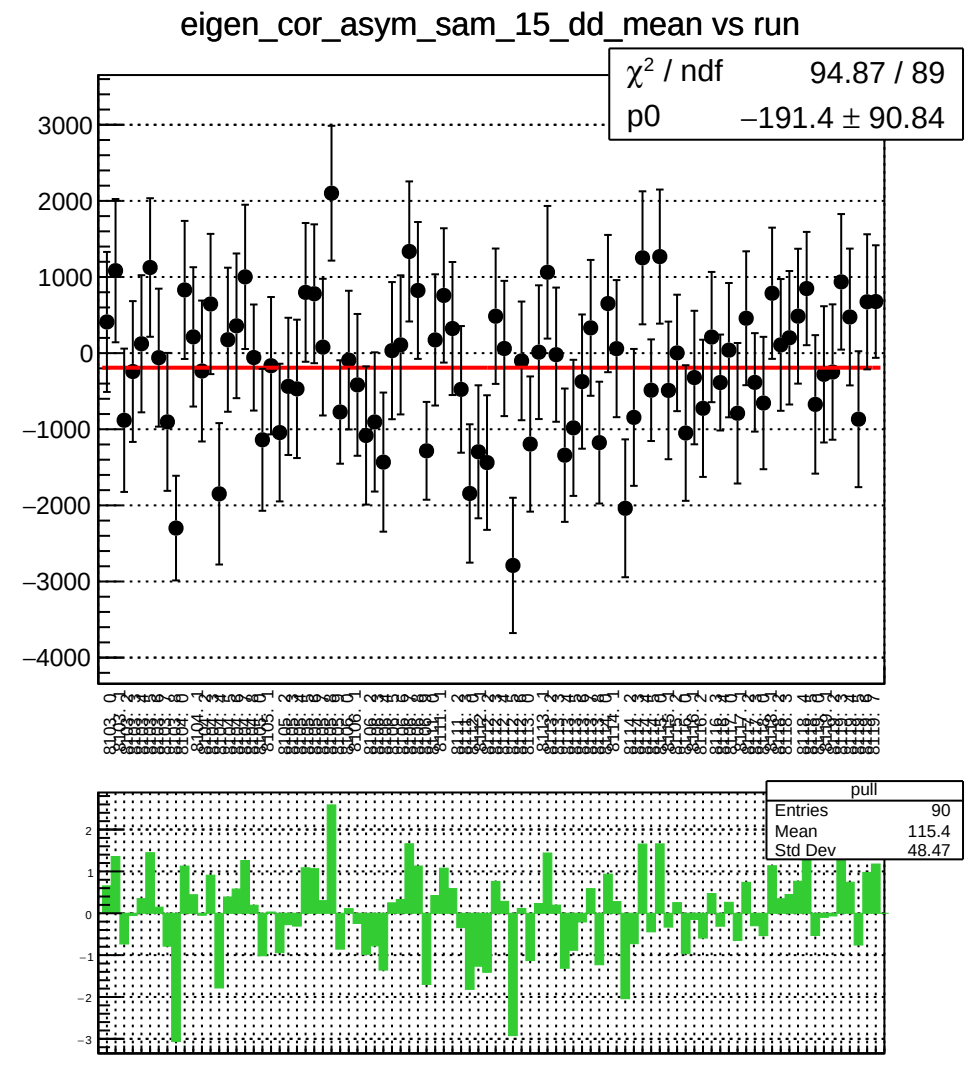

pull1D
Entries 90
Mean 0.01856
Std Dev 1.027

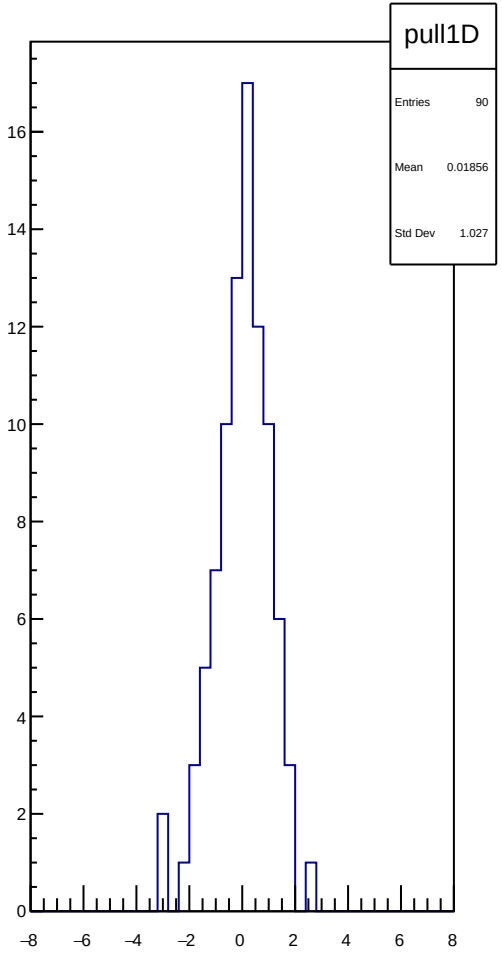

cor_asym_sam_15_dd_rms vs run
χ² / ndf 939.3 / 89
p0 85.16 ± 0.06423
90
88
86
84
82
80

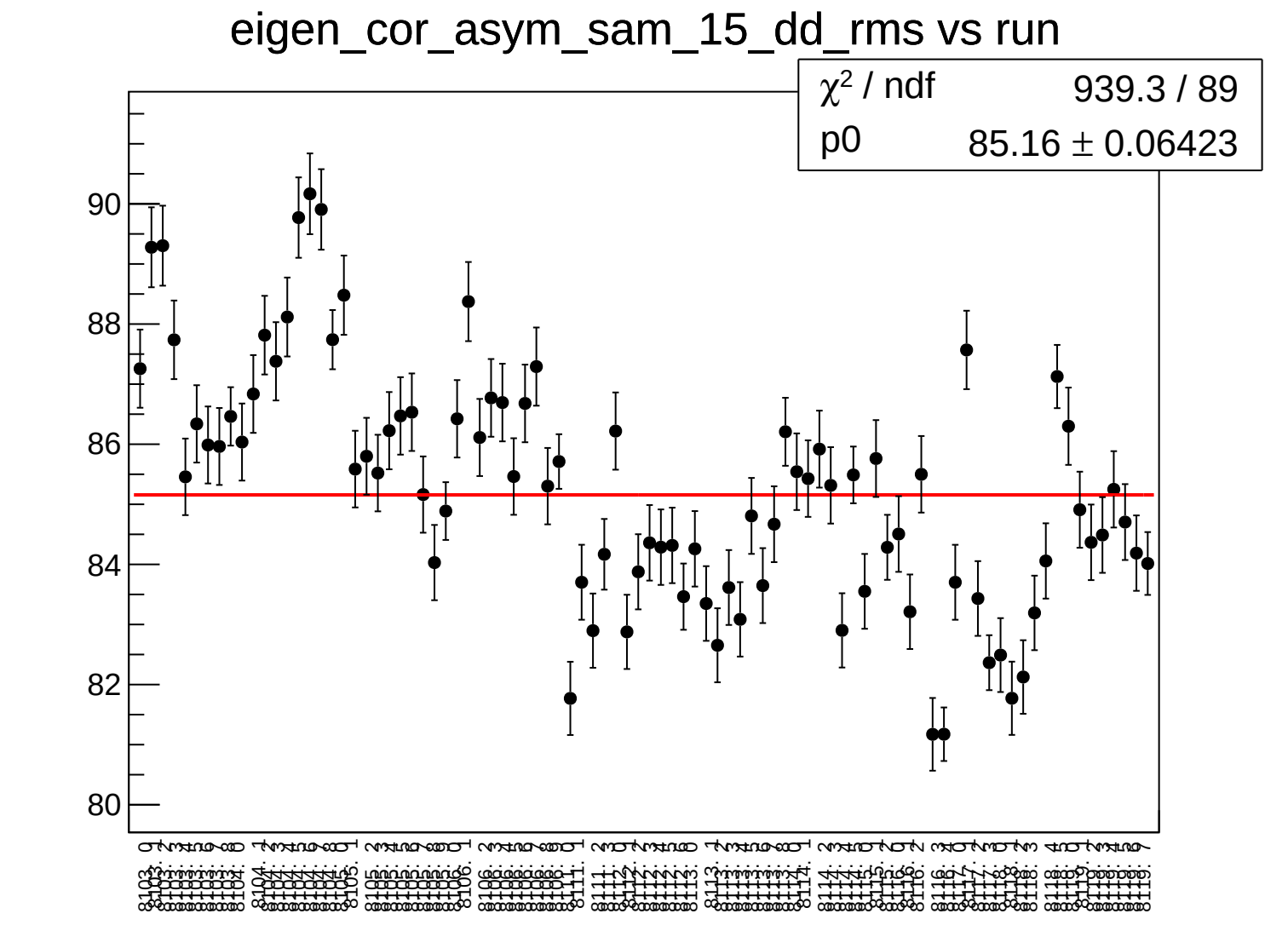

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 68.3 / 89
p0 −1188 ± 673.4
pull
Entries 90
Mean 98.18
Std Dev 85.65

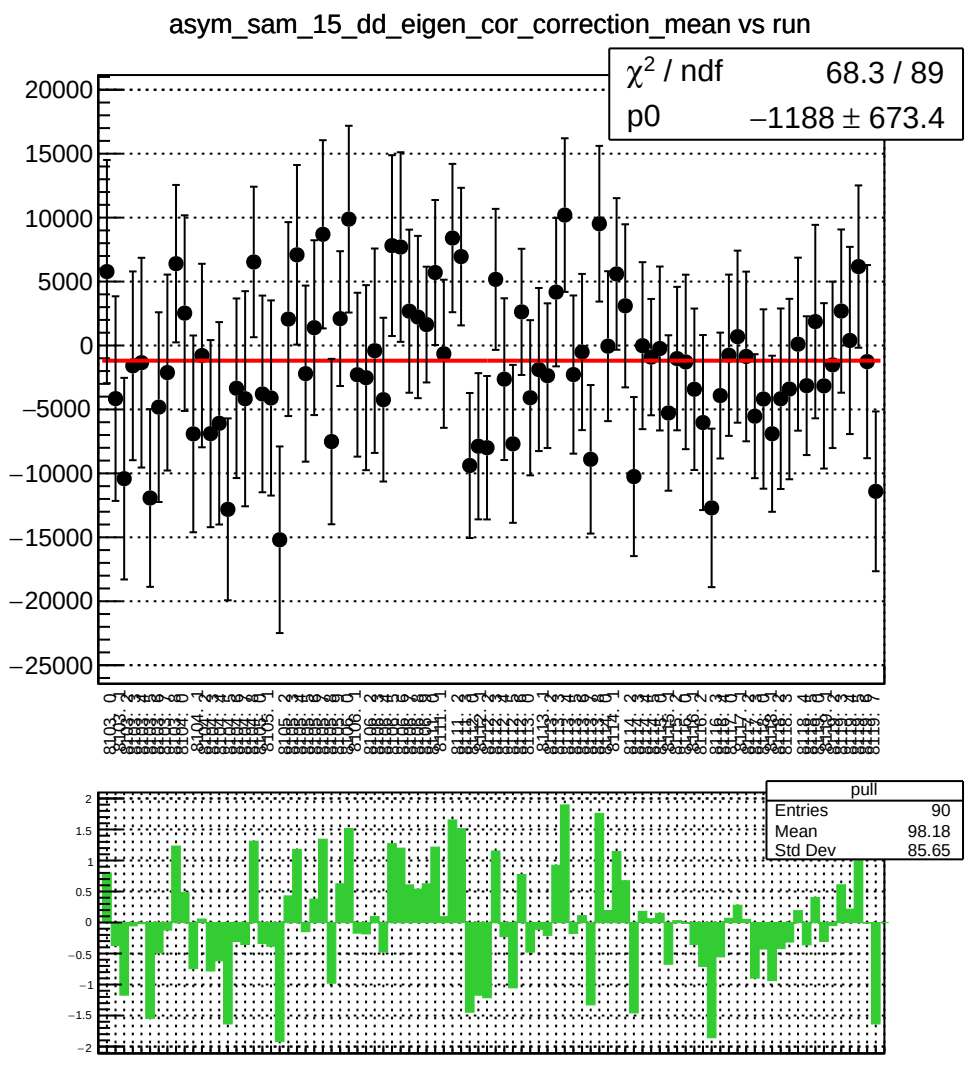

pull1D
Entries 90
Mean −0.01107
Std Dev 0.8711

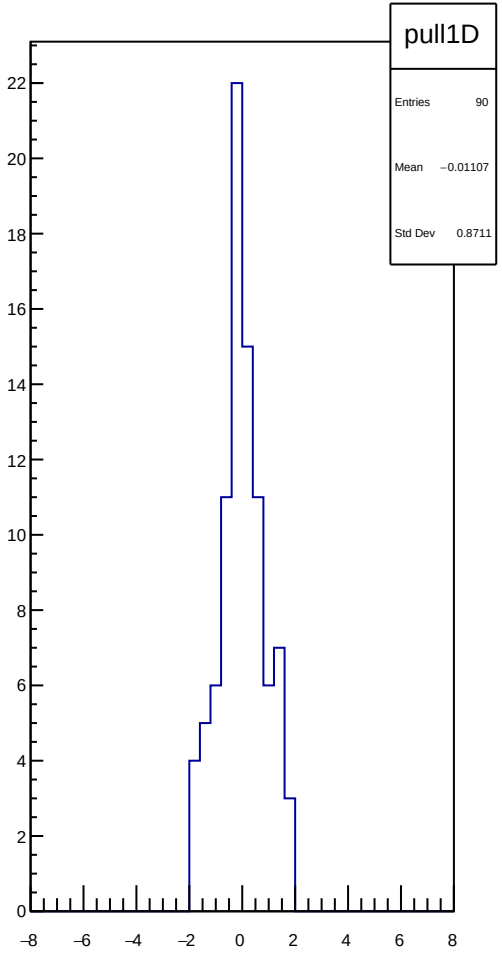

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.997e+04 / 89
p0 627.8 ± 0.4761
850
800
750
700
650
600
550
500

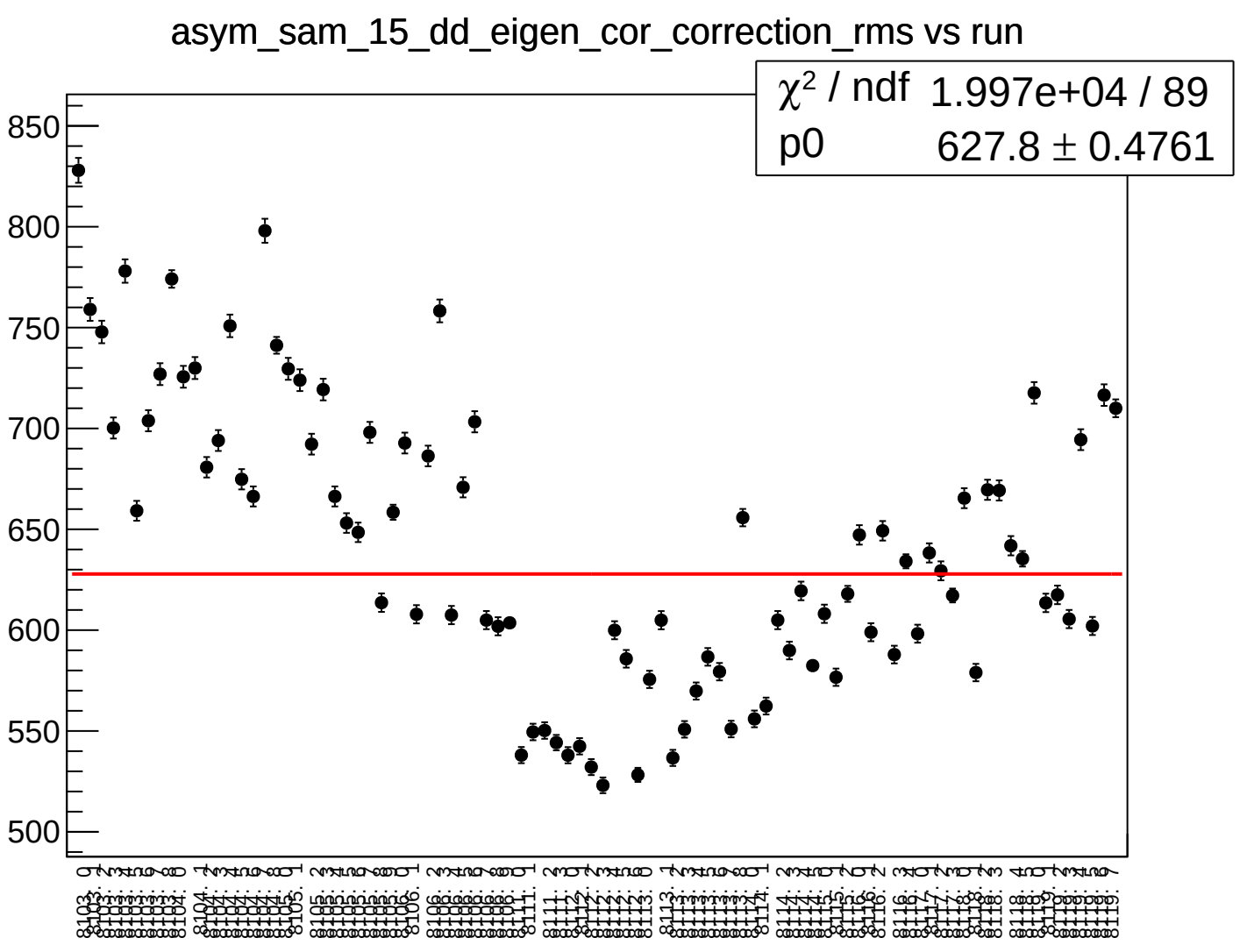

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 94.87 / 89
p0 −191.4 ± 90.84
pull
Entries 90
Mean 115.4
Std Dev 48.47

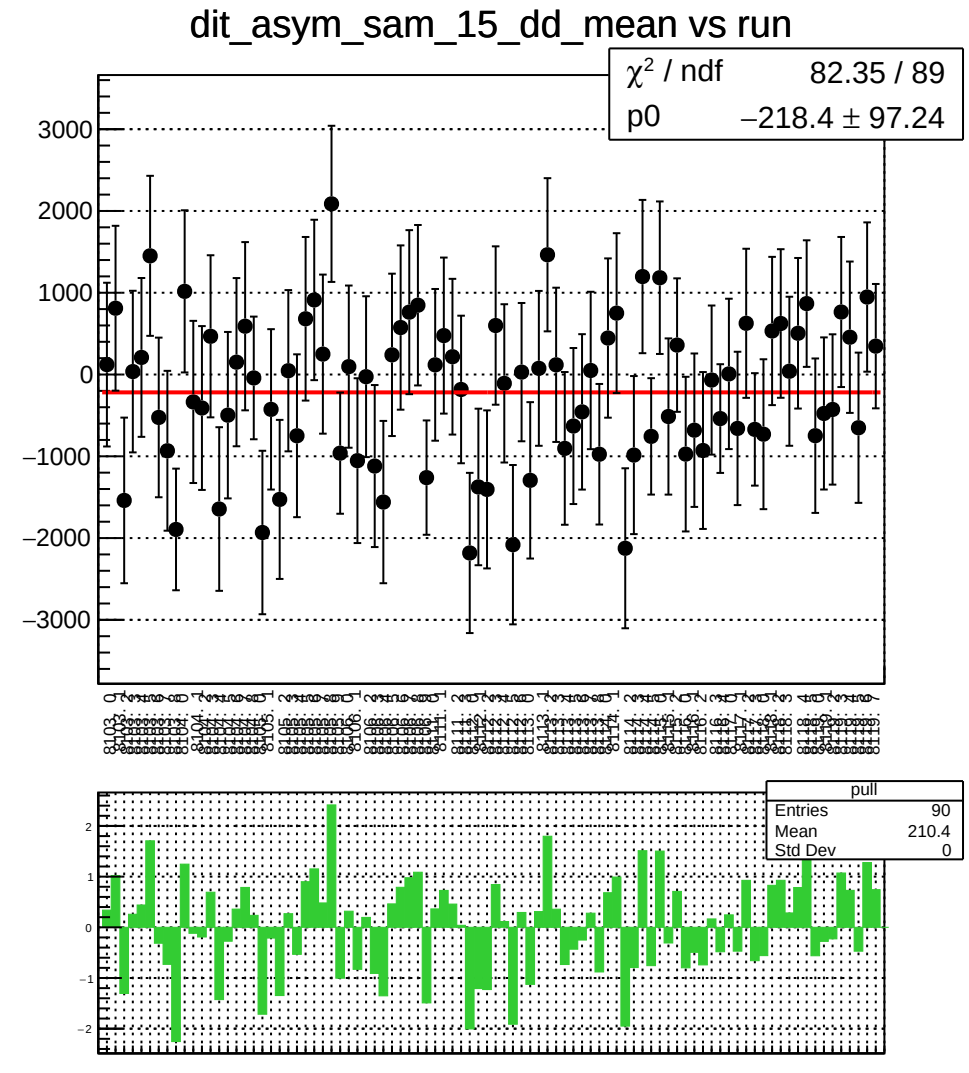

pull1D
Entries 90
Mean 0.01856
Std Dev 1.027

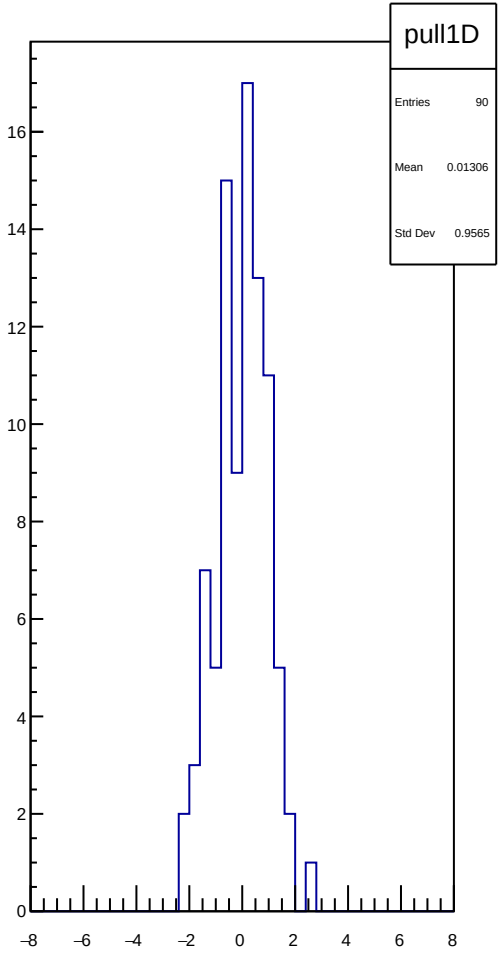

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 939.3 / 89
p0 85.16 ± 0.06423
90
88
86
84
82
80

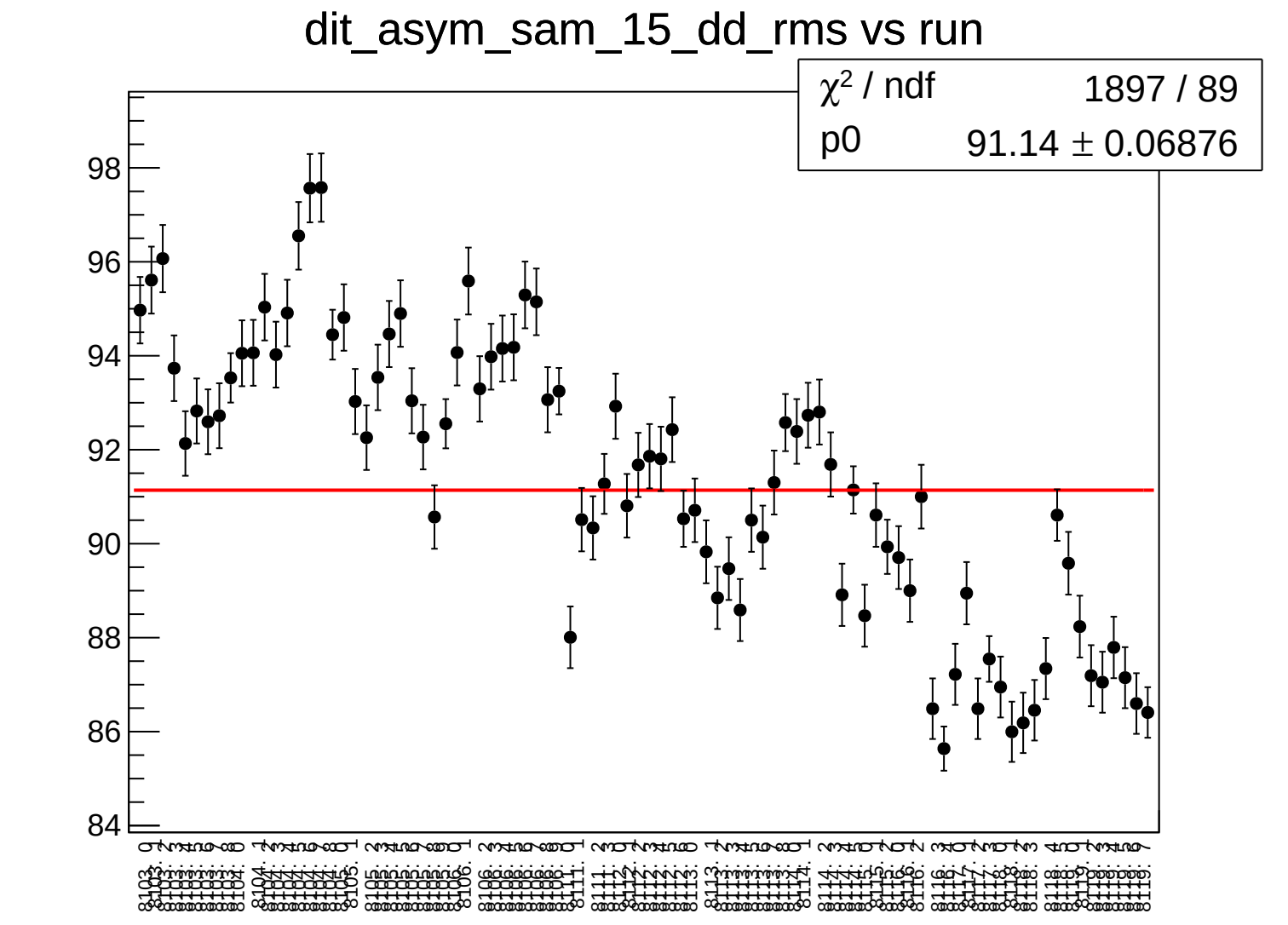

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.3 / 89
p0 −1188 ± 673.4
pull
Entries 90
Mean 98.18
Std Dev 85.65

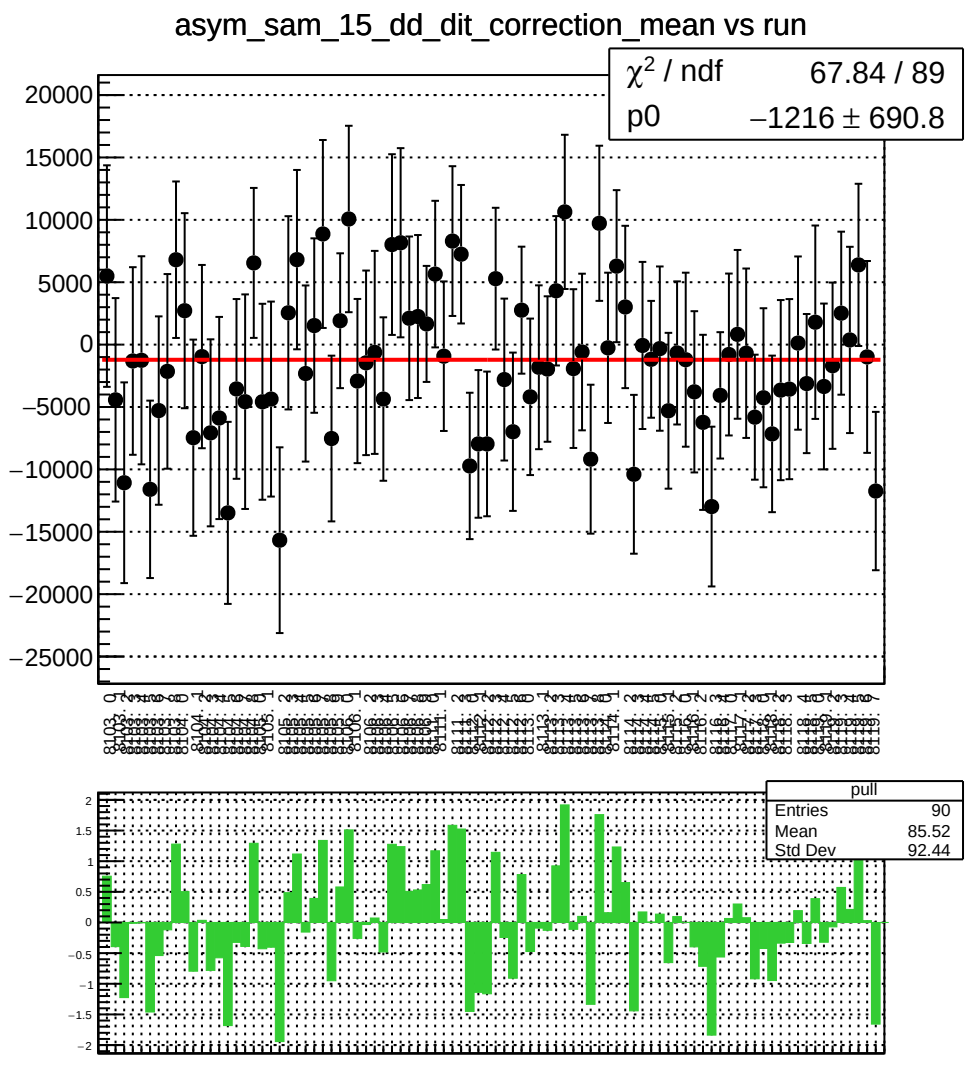

pull1D
Entries 90
Mean −0.01107
Std Dev 0.8711

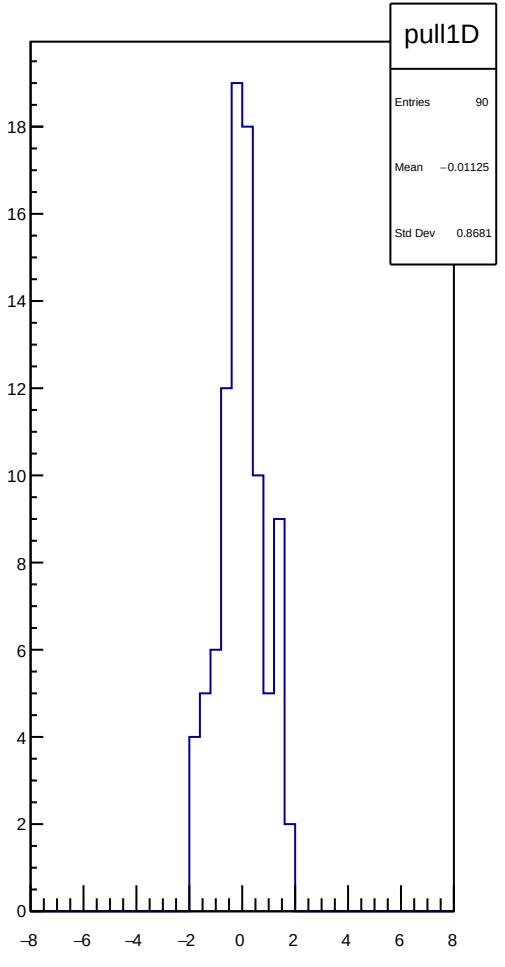

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.997e+04 / 89
p0 627.8 ± 0.4761
850
800
750
700
650
600
550
500

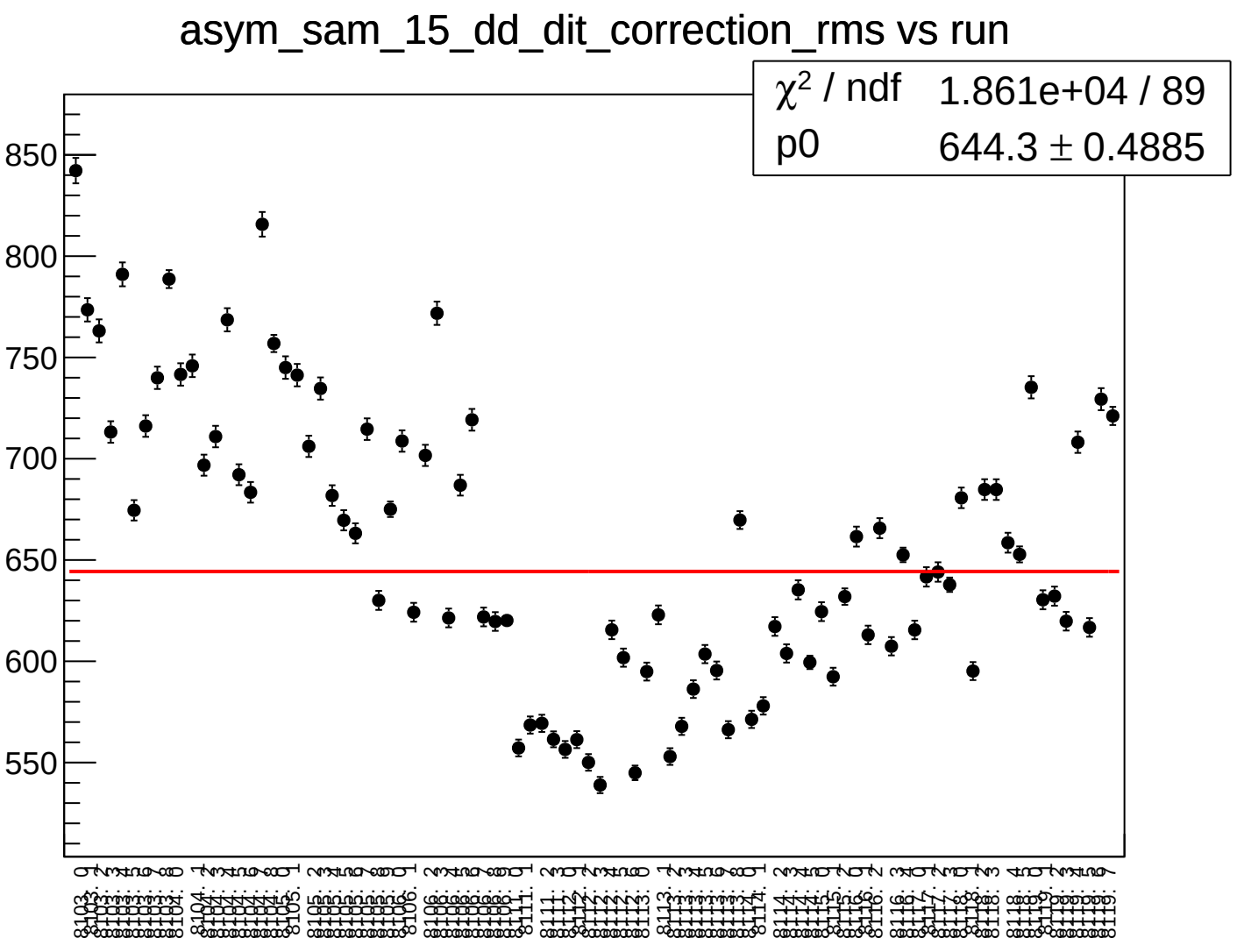

dit_asym_sam_15_dd_mean vs run
χ² / ndf 82.35 / 89
p0 −218.4 ± 97.24
pull
Entries 90
Mean 210.4
Std Dev 0

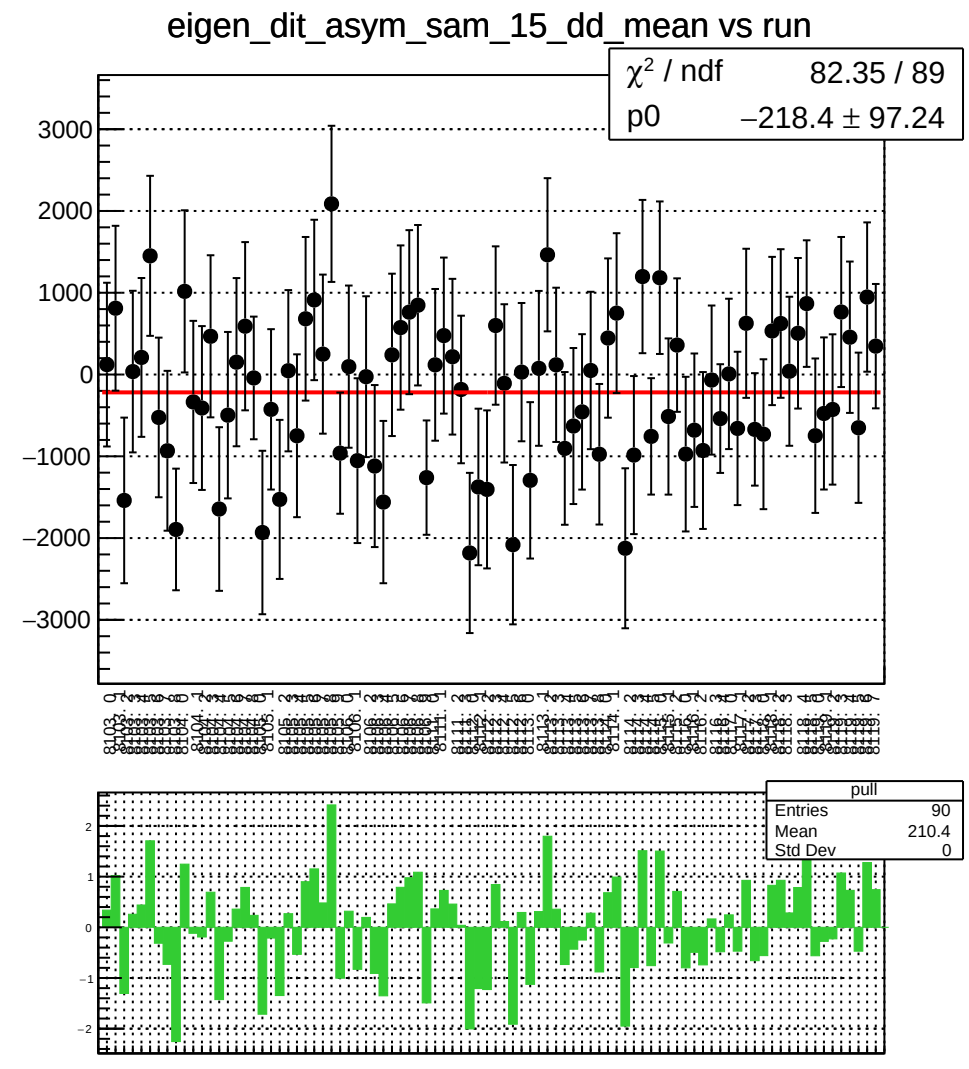

pull1D
Entries 90
Mean 0.01306
Std Dev 0.9565

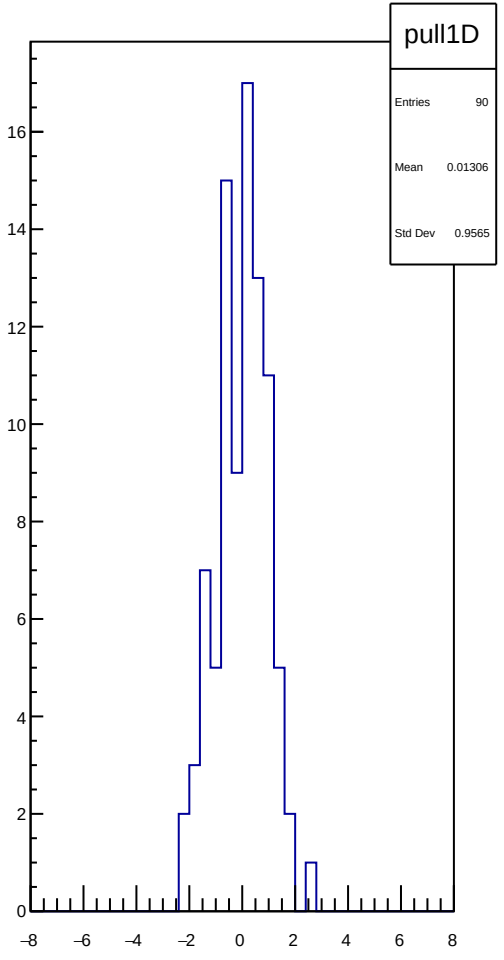

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1897 / 89
p0 91.14 ± 0.06876
98
96
94
92
90
88
86
84

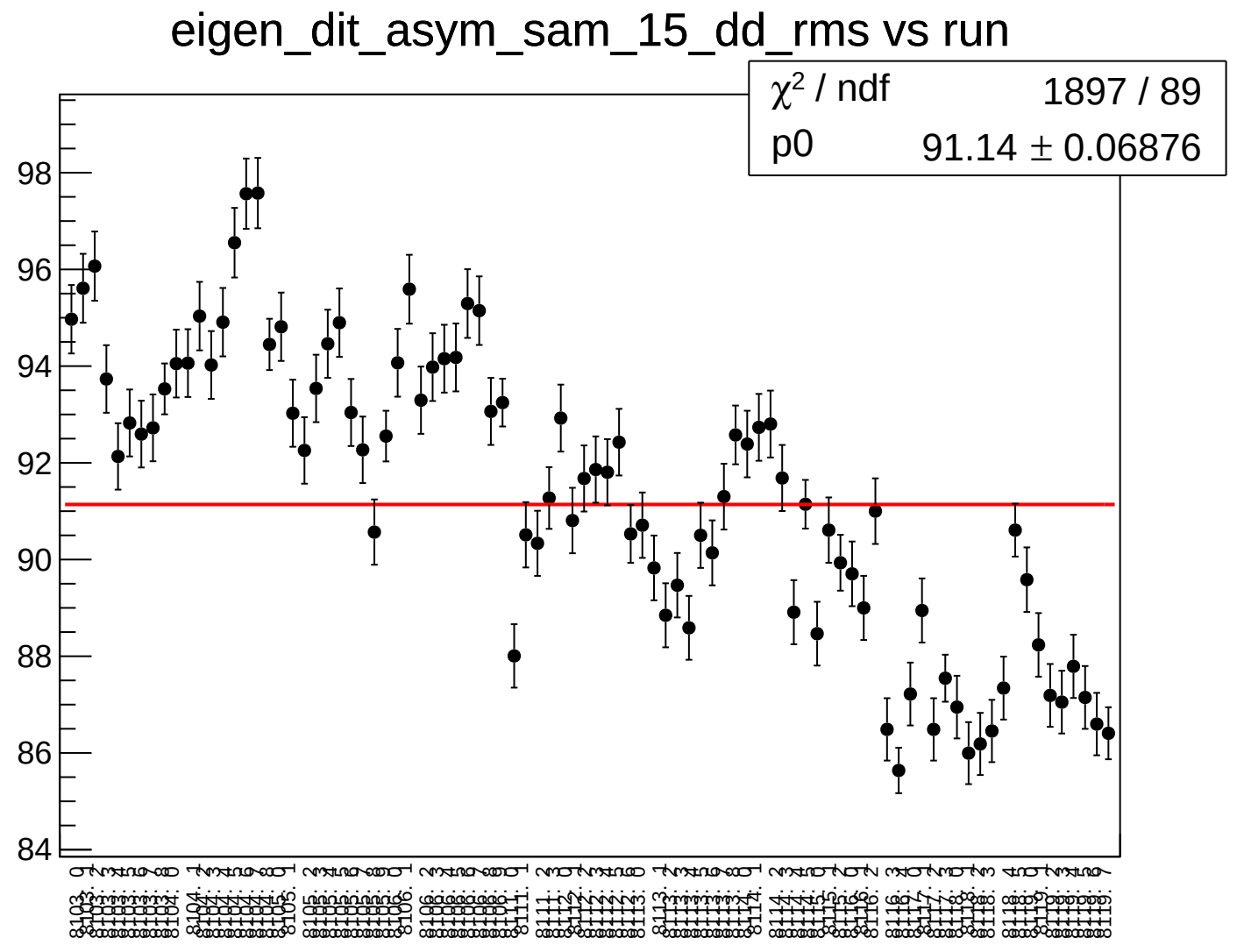

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 67.84 / 89
p0 −1216 ± 690.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 90
Mean 85.52
Std Dev 92.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

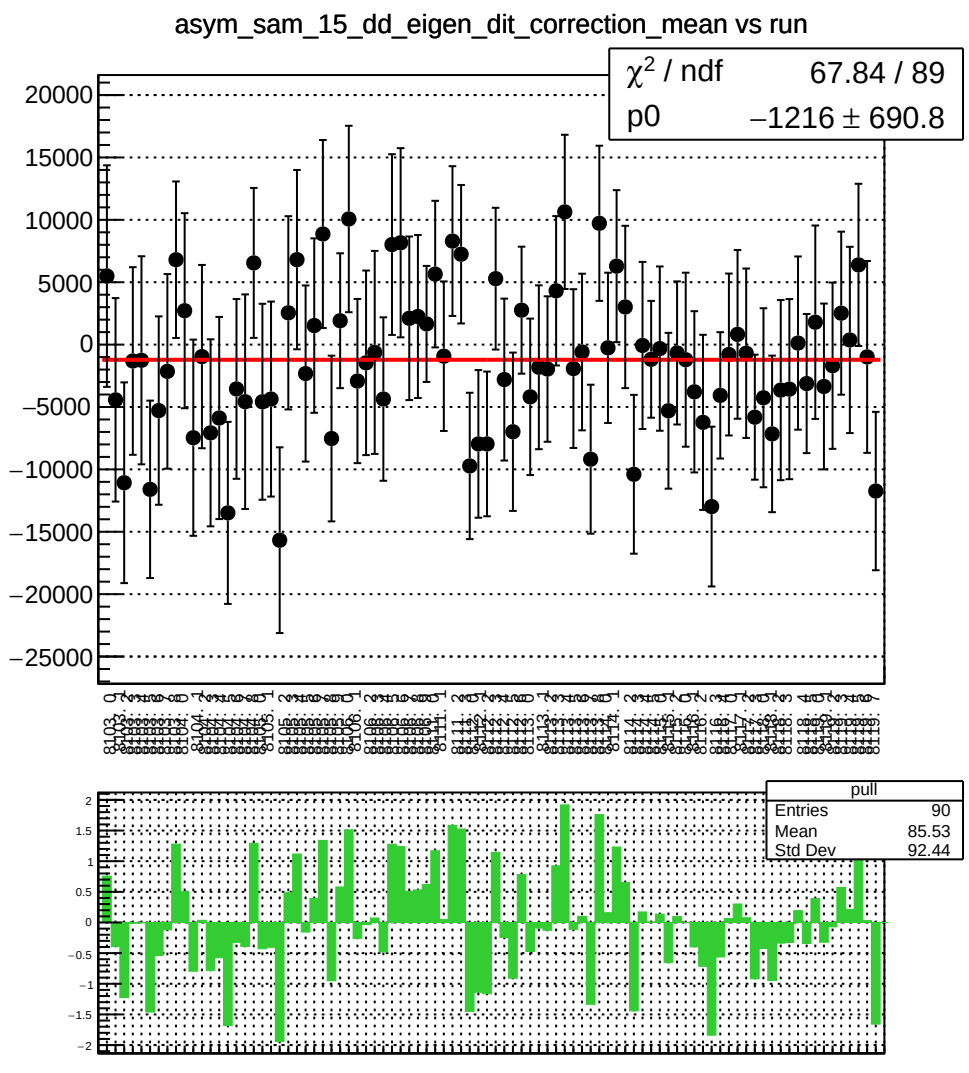

pull1D
Entries 90
Mean −0.01125
Std Dev 0.8681
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

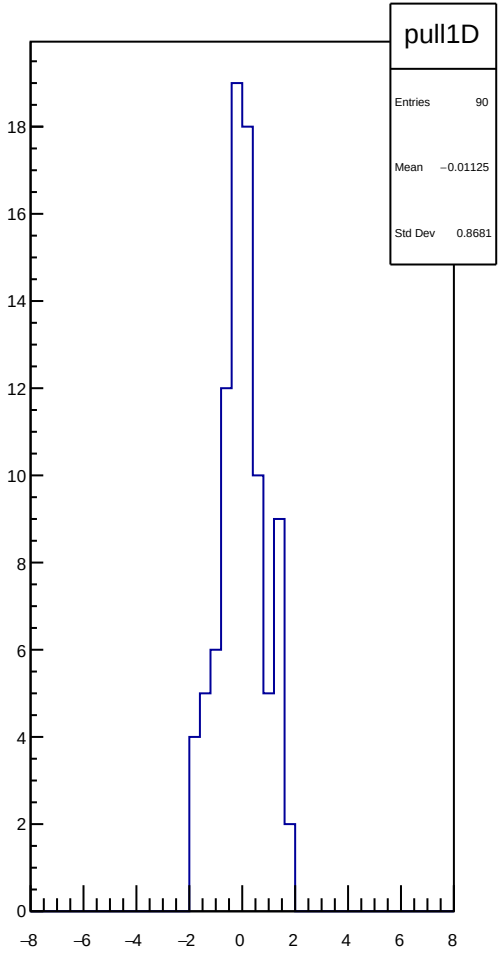

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1.861e+04 / 89
p0 644.3 ± 0.4885
850
800
750
700
650
600
550

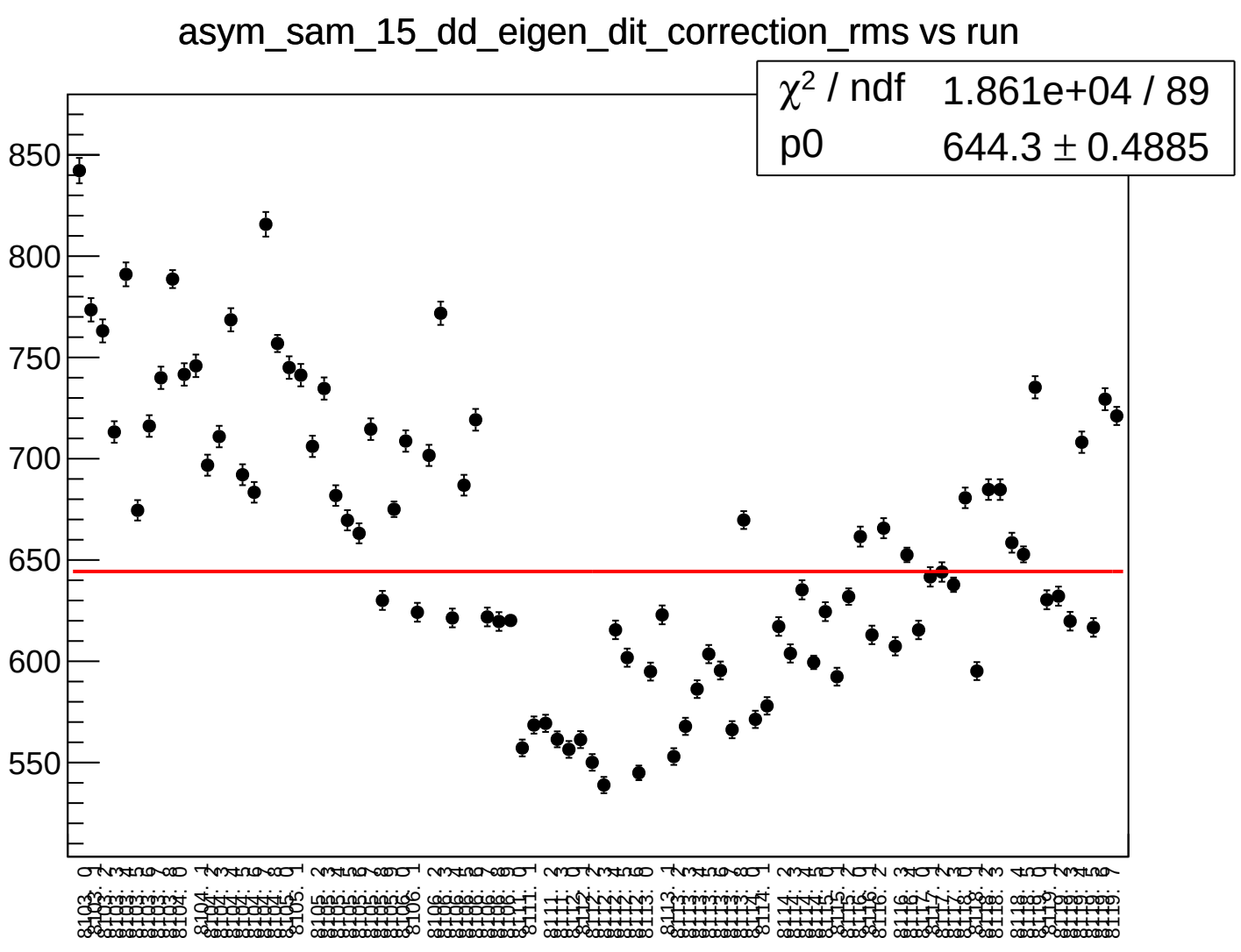

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 82.35 / 89
p0 −218.4 ± 97.24
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 210.4
Std Dev 0
2
1
0
−1
−2

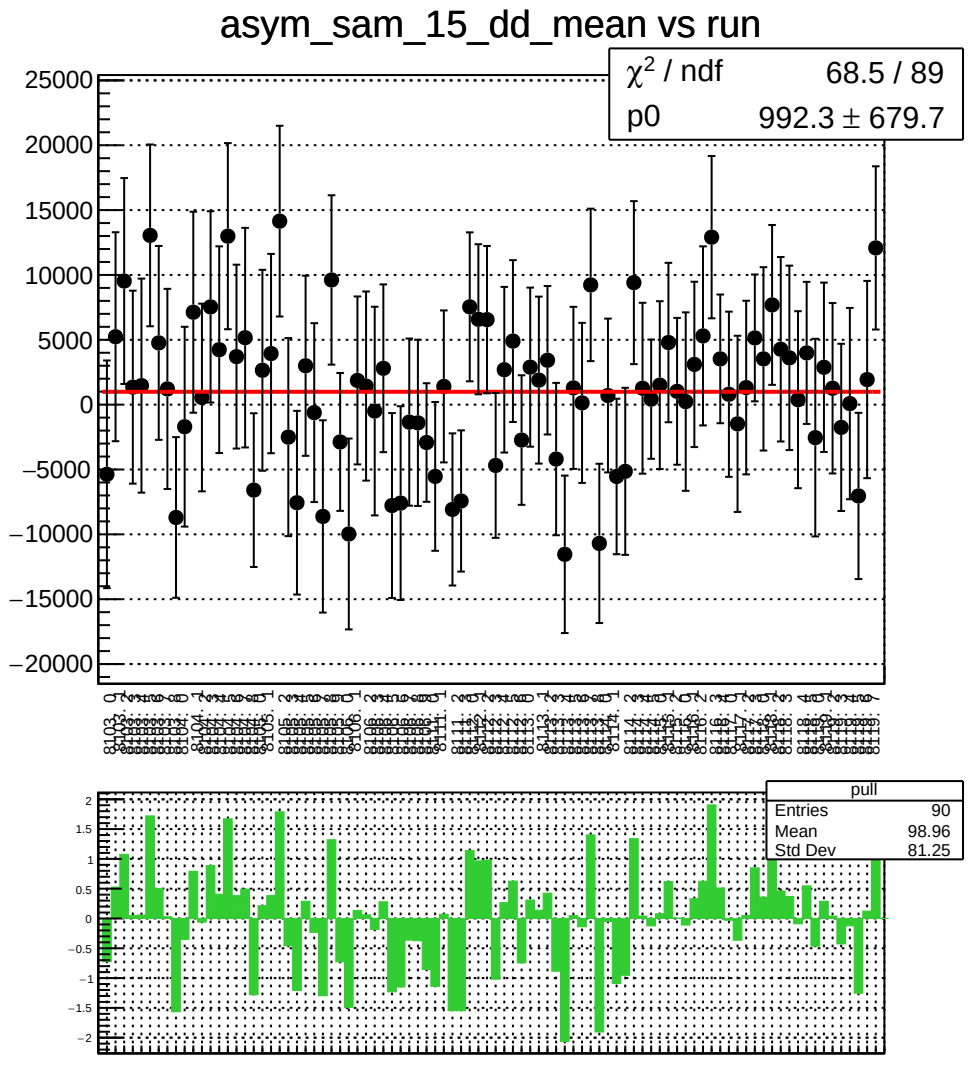

pull1D
Entries 90
Mean 0.01306
Std Dev 0.9565
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

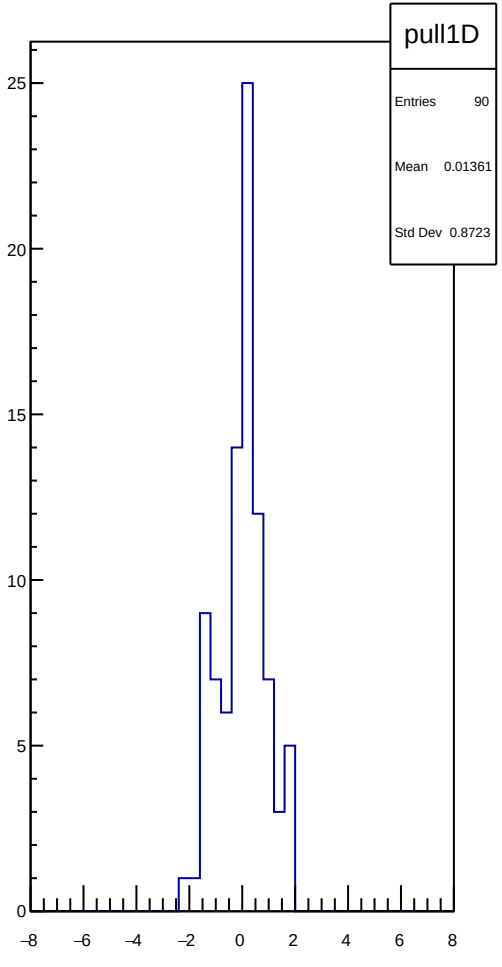

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1897 / 89
p0 91.14 ± 0.06876
98
96
94
92
90
88
86
84

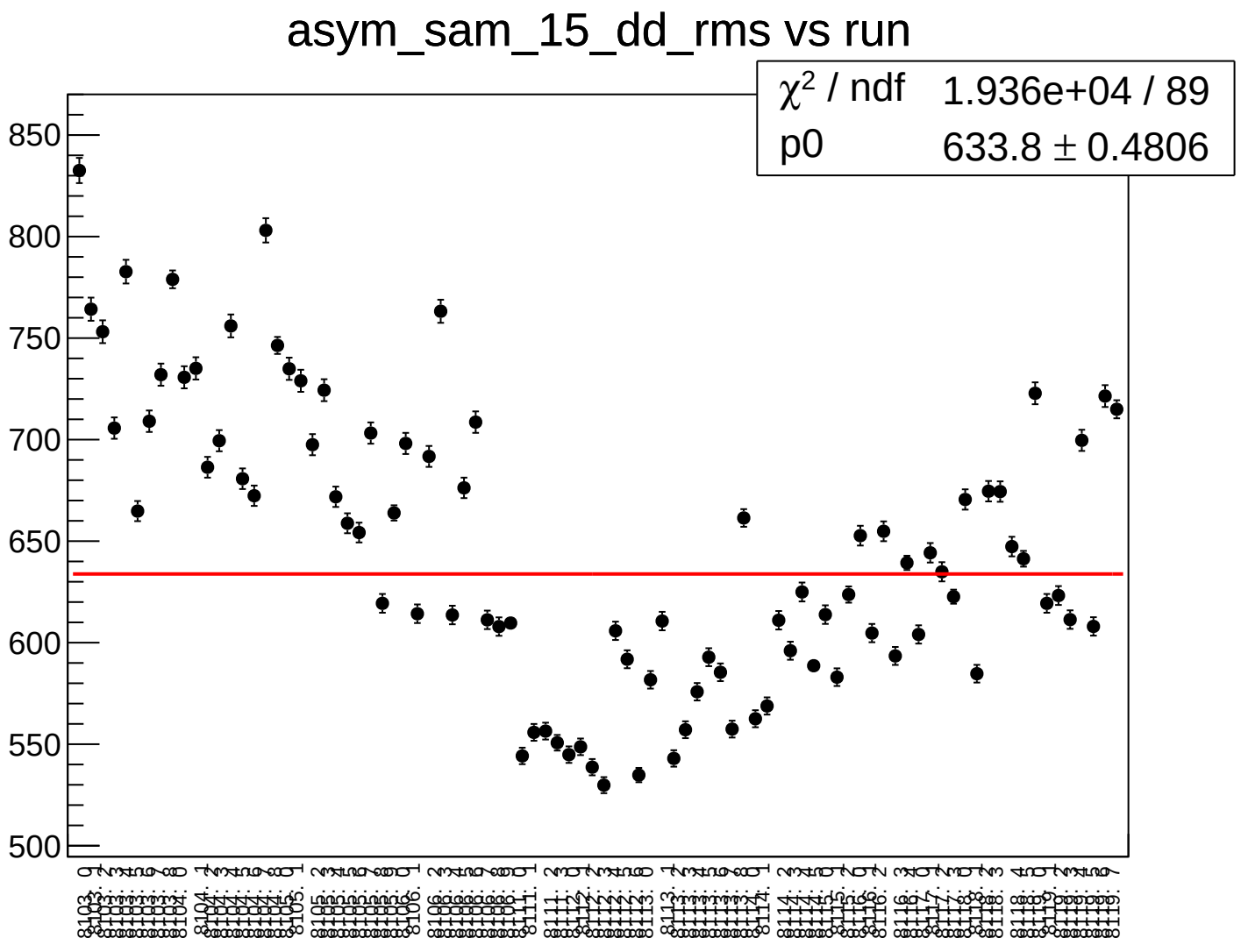

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.84 / 89
p0 −1216 ± 690.8
pull
Entries 90
Mean 85.53
Std Dev 92.44

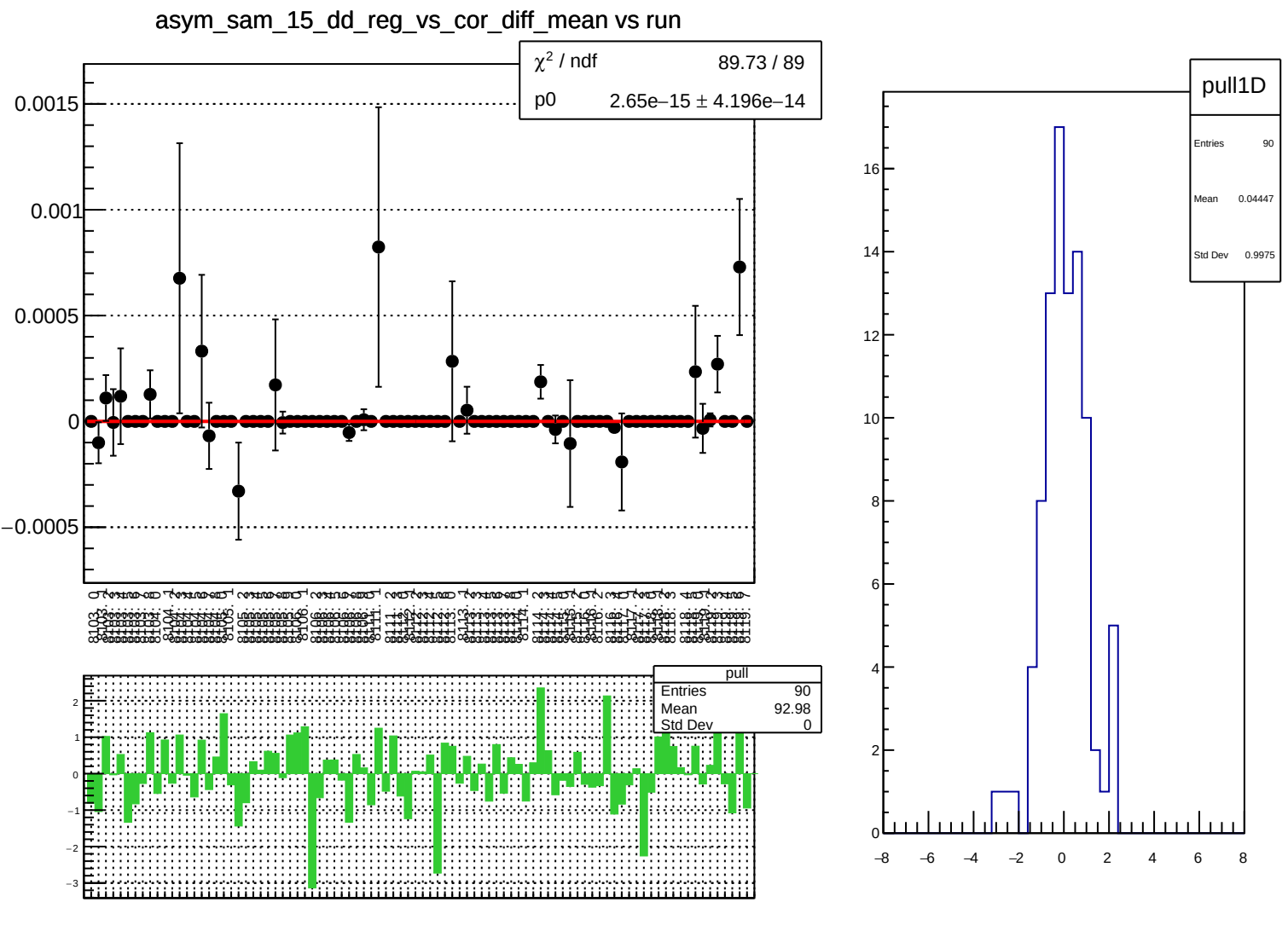

pull1D
Entries 90
Mean −0.01125
Std Dev 0.8681

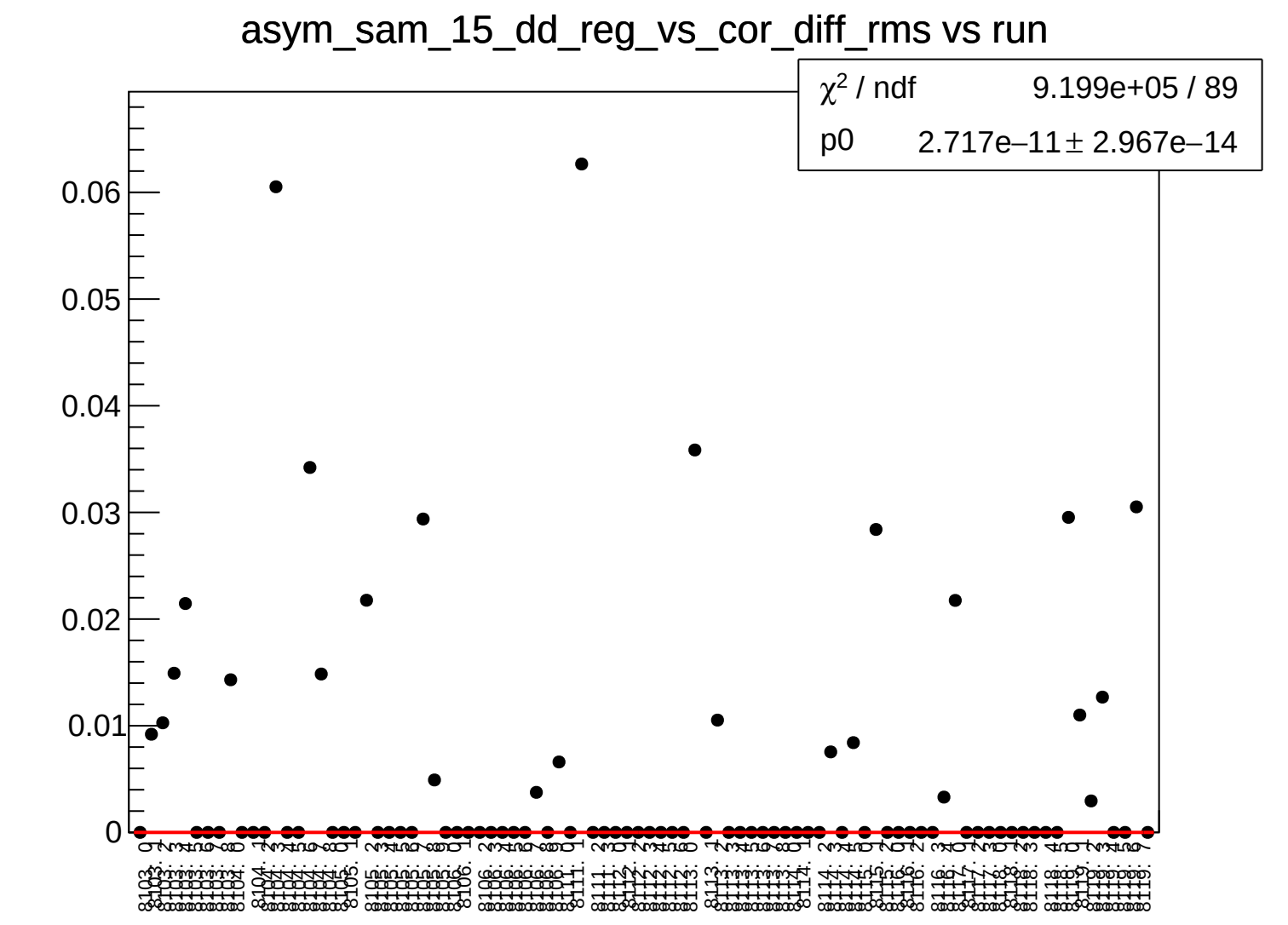

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.861e+04 / 89
p0 644.3 ± 0.4885
850
800
750
700
650
600
550

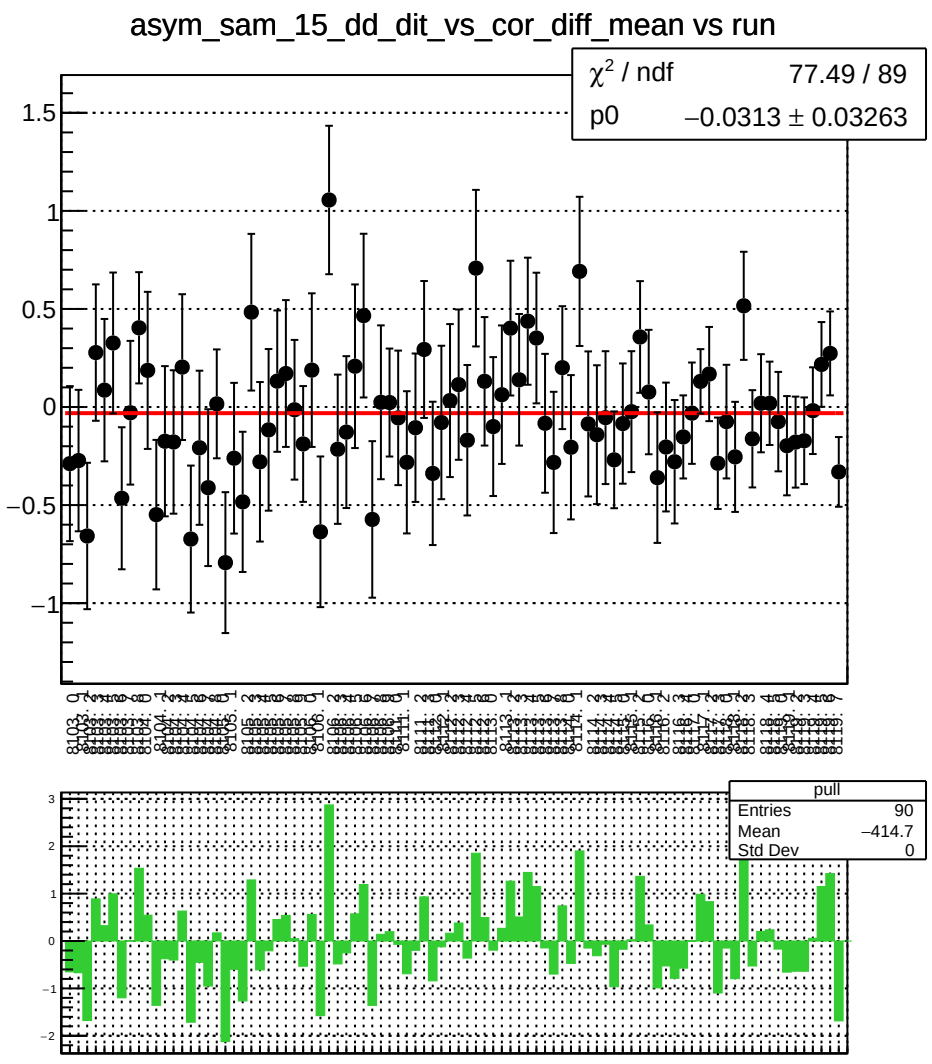

asym_sam_15_dd_mean vs run
χ² / ndf 68.5 / 89
p0 992.3 ± 679.7
pull
Entries 90
Mean 98.96
Std Dev 81.25

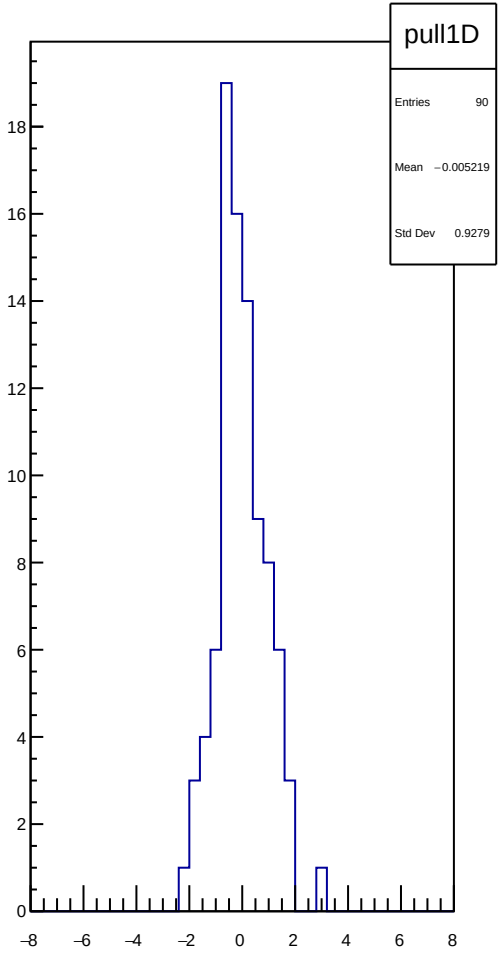

pull1D
Entries 90
Mean 0.01361
Std Dev 0.8723

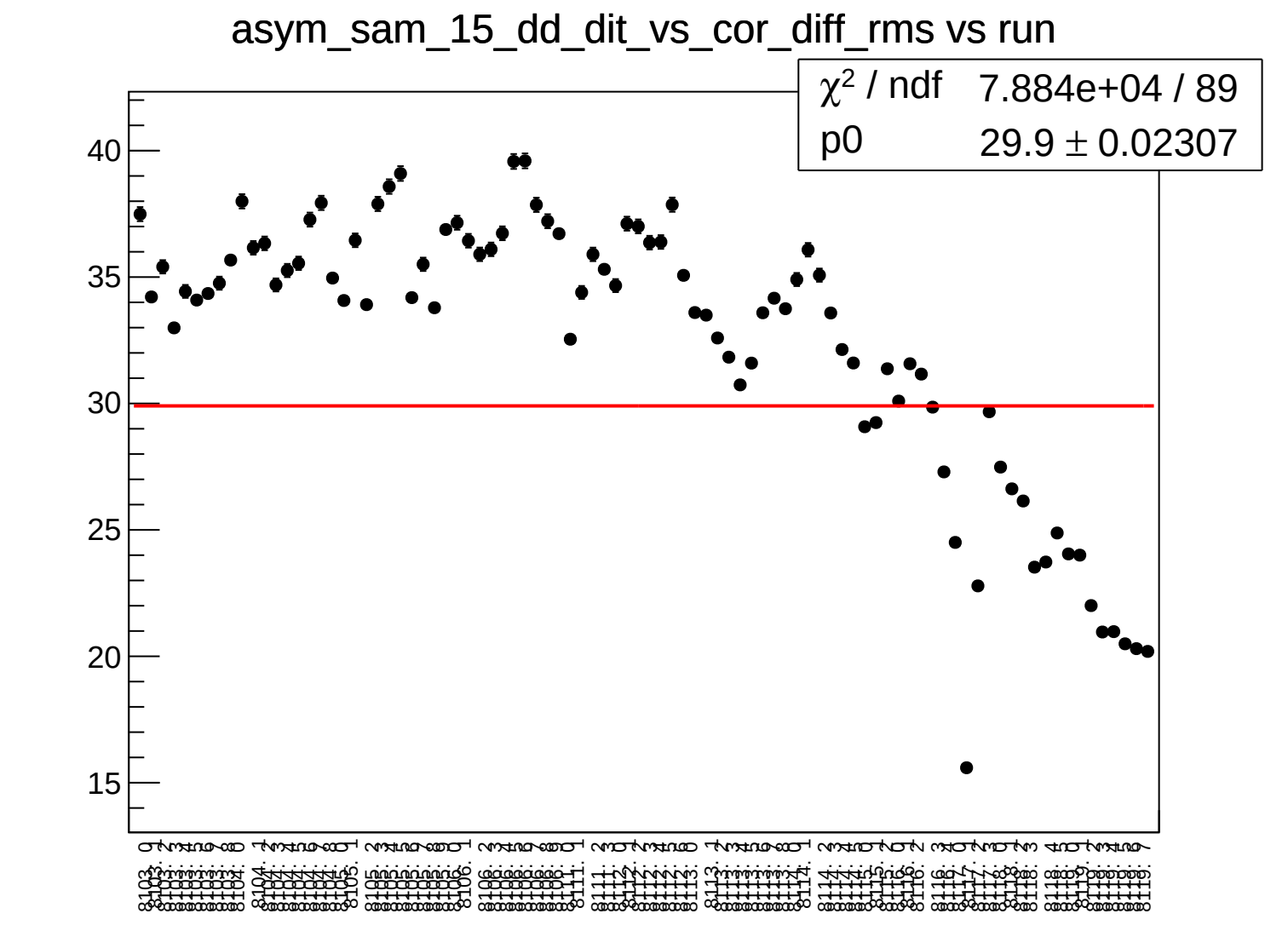

asym_sam_15_dd_rms vs run
χ² / ndf 1.936e+04 / 89
p0 633.8 ± 0.4806
850
800
750
700
650
600
550
500

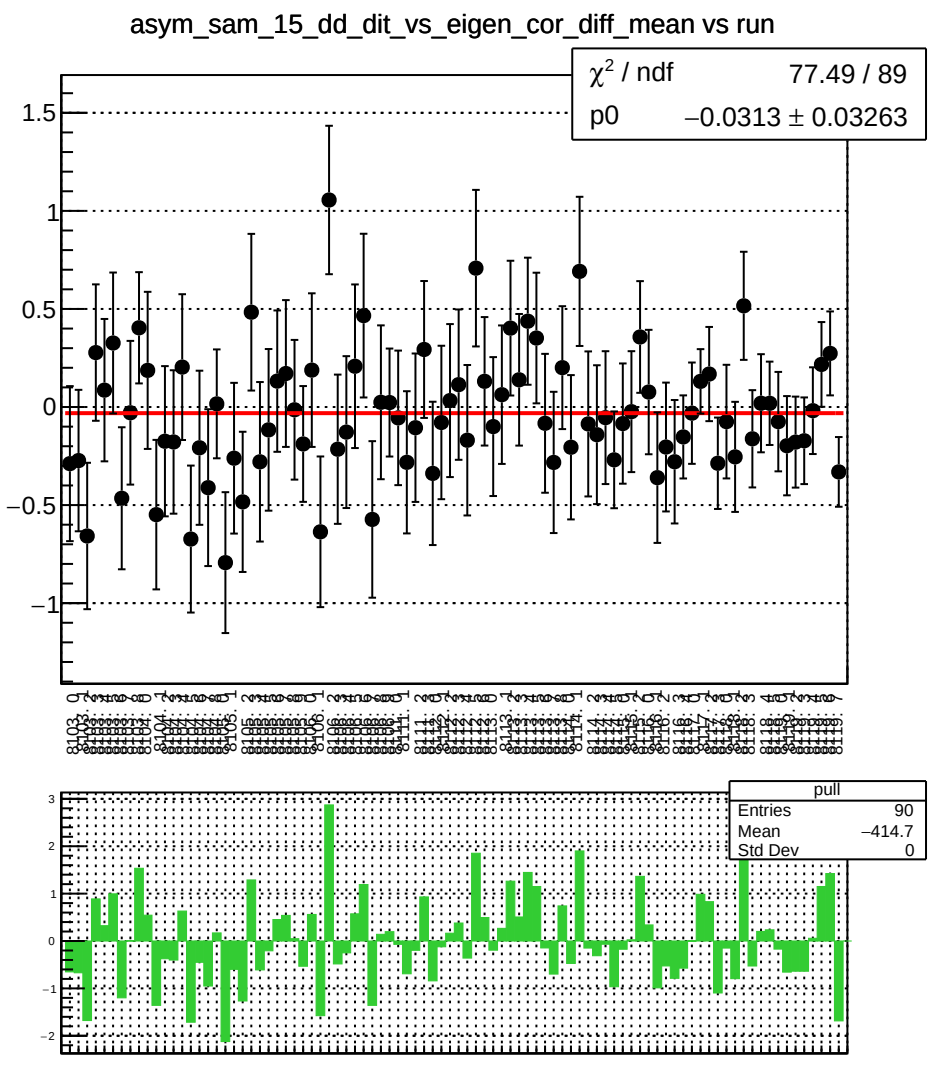

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.73 / 89
p0 2.65e−15 ± 4.196e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 90
Mean 92.98
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.04447
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

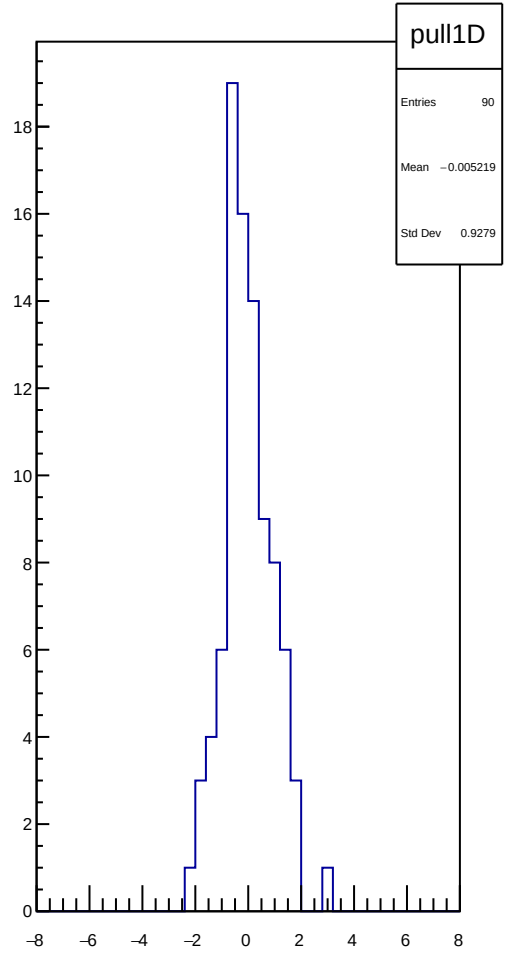

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.199e+05 / 89
p0 2.717e−11 ± 2.967e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

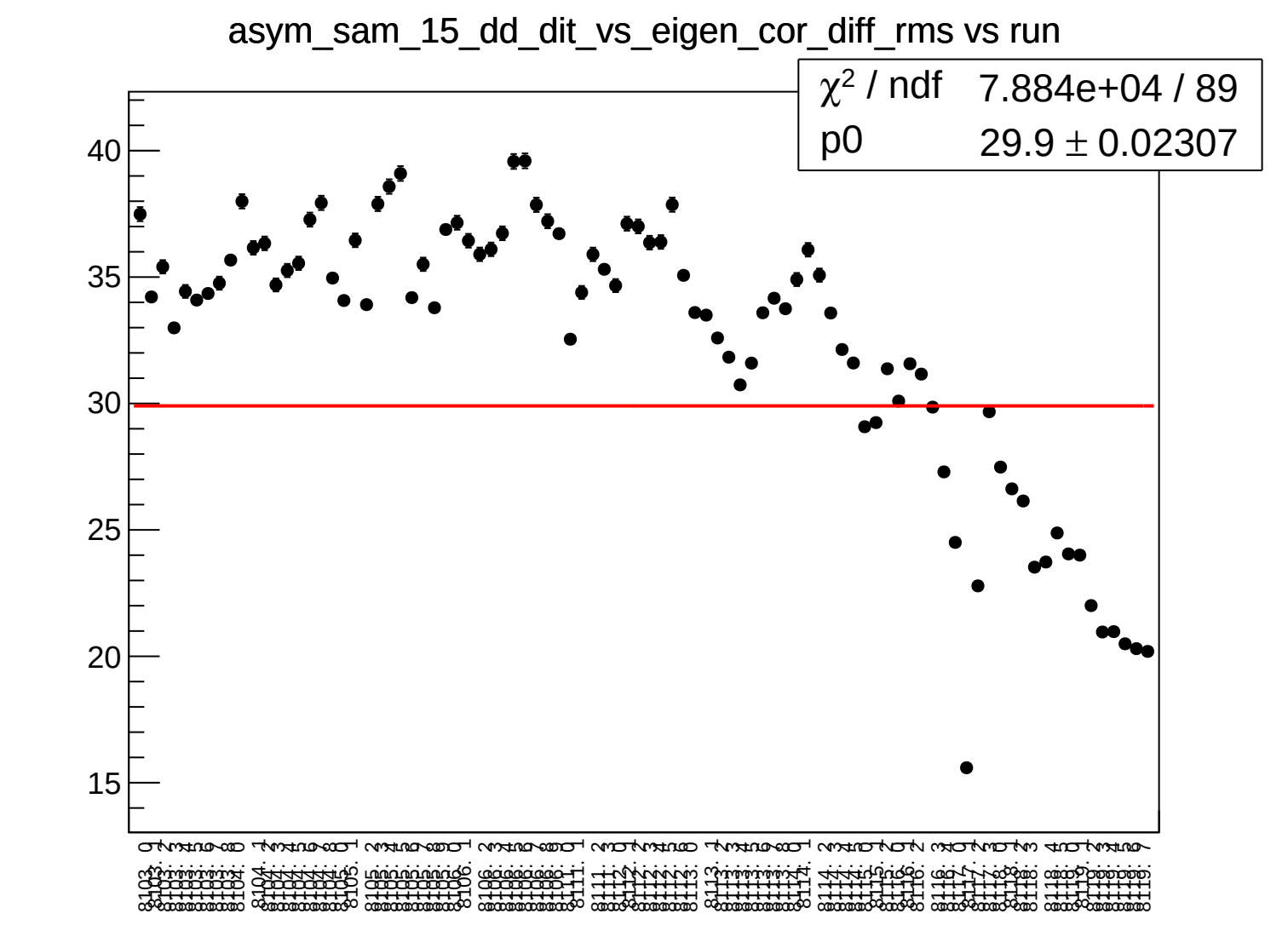

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.49 / 89
p0 −0.0313 ± 0.03263
pull
Entries 90
Mean −414.7
Std Dev 0

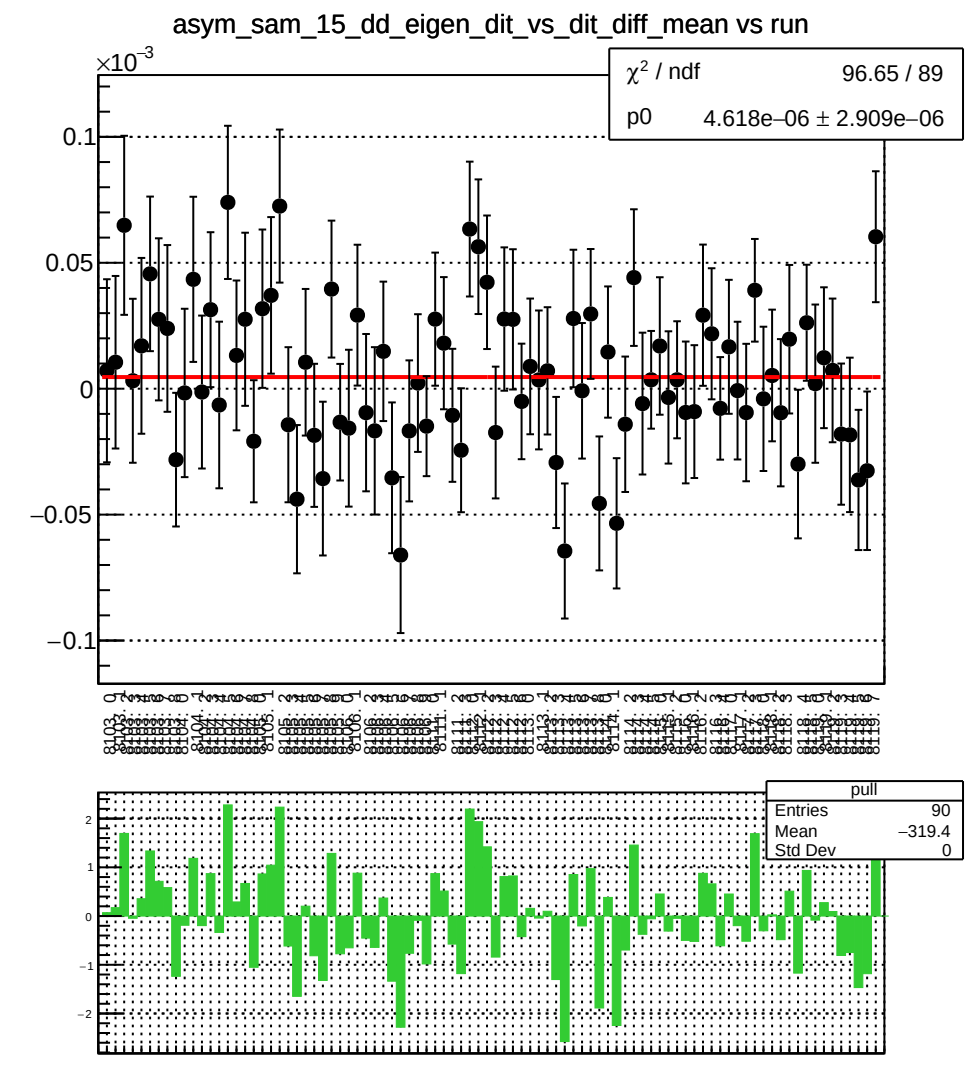

pull1D
Entries 90
Mean −0.005219
Std Dev 0.9279

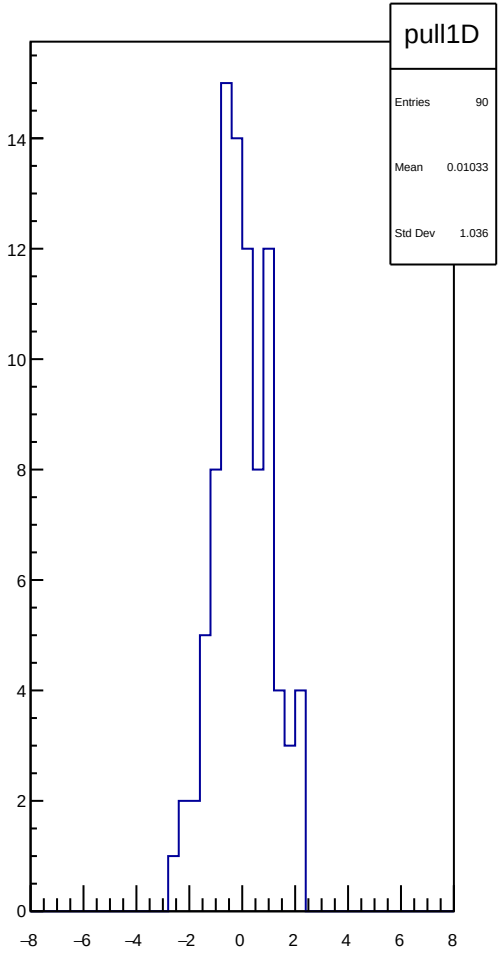

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.884e+04 / 89
p0 29.9 ± 0.02307
40
35
30
25
20
15

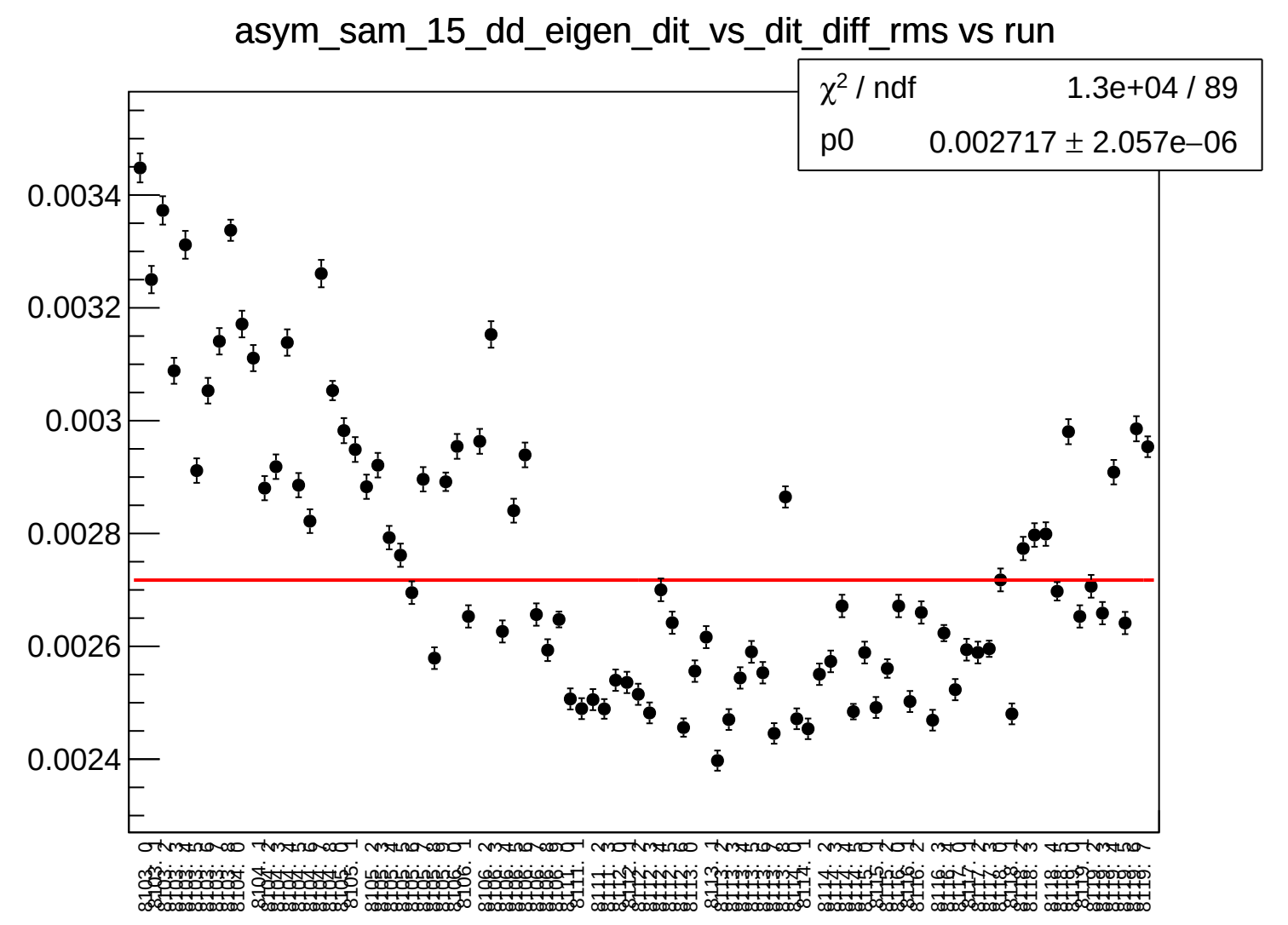

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.49 / 89
p0 −0.0313 ± 0.03263
pull
Entries 90
Mean −414.7
Std Dev 0

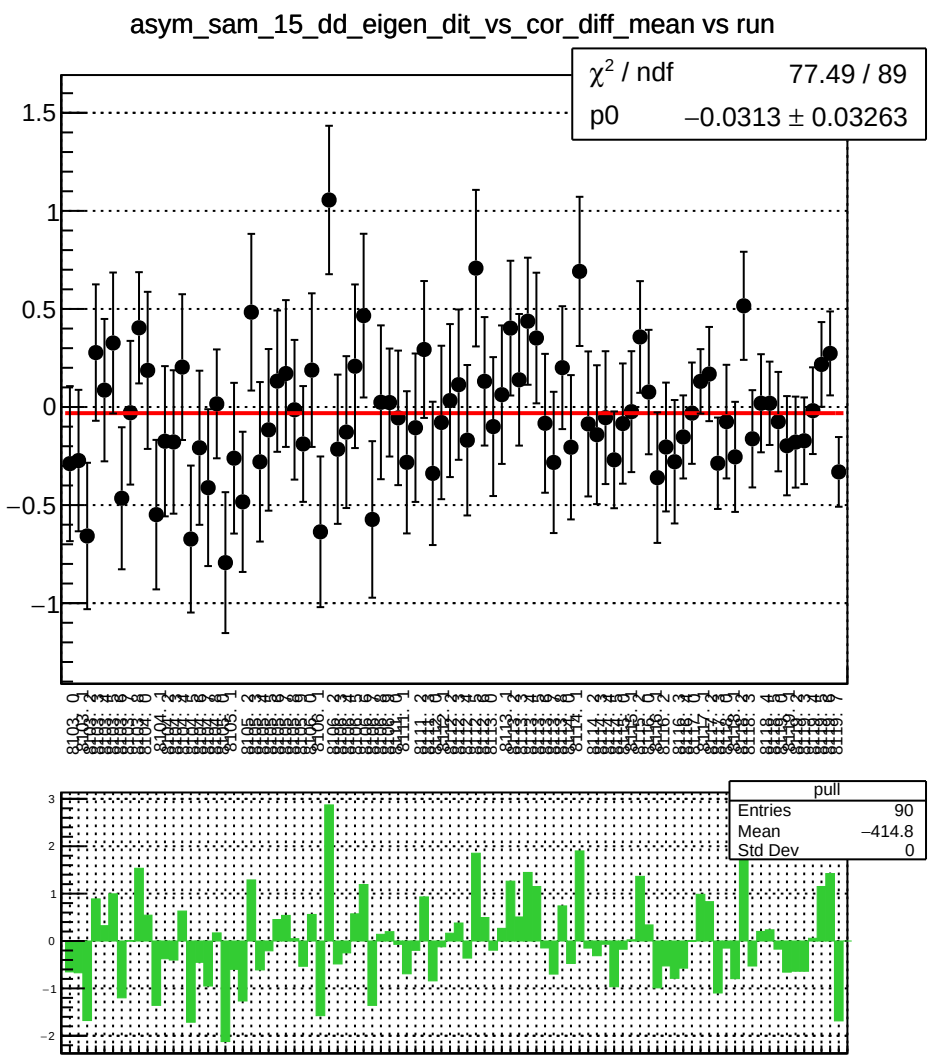

pull1D
Entries 90
Mean −0.005219
Std Dev 0.9279

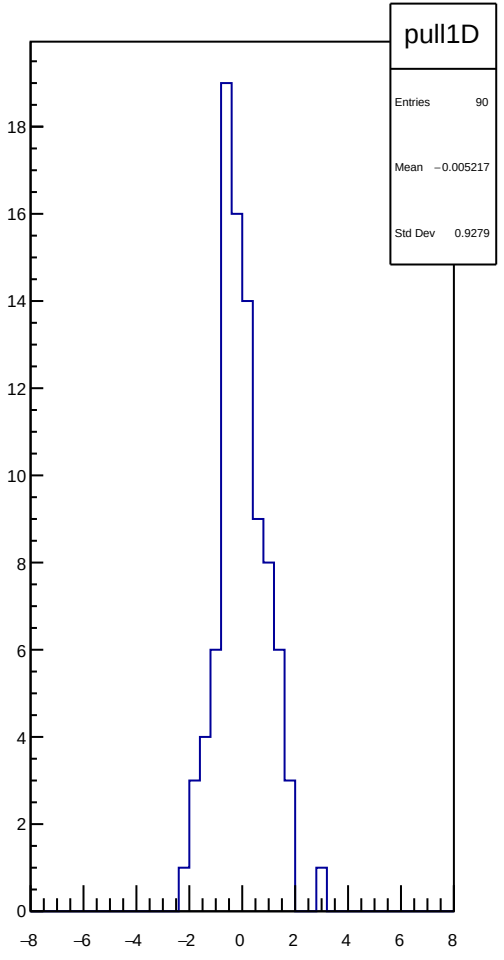

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.884e+04 / 89
p0 29.9 ± 0.02307
40
35
30
25
20
15

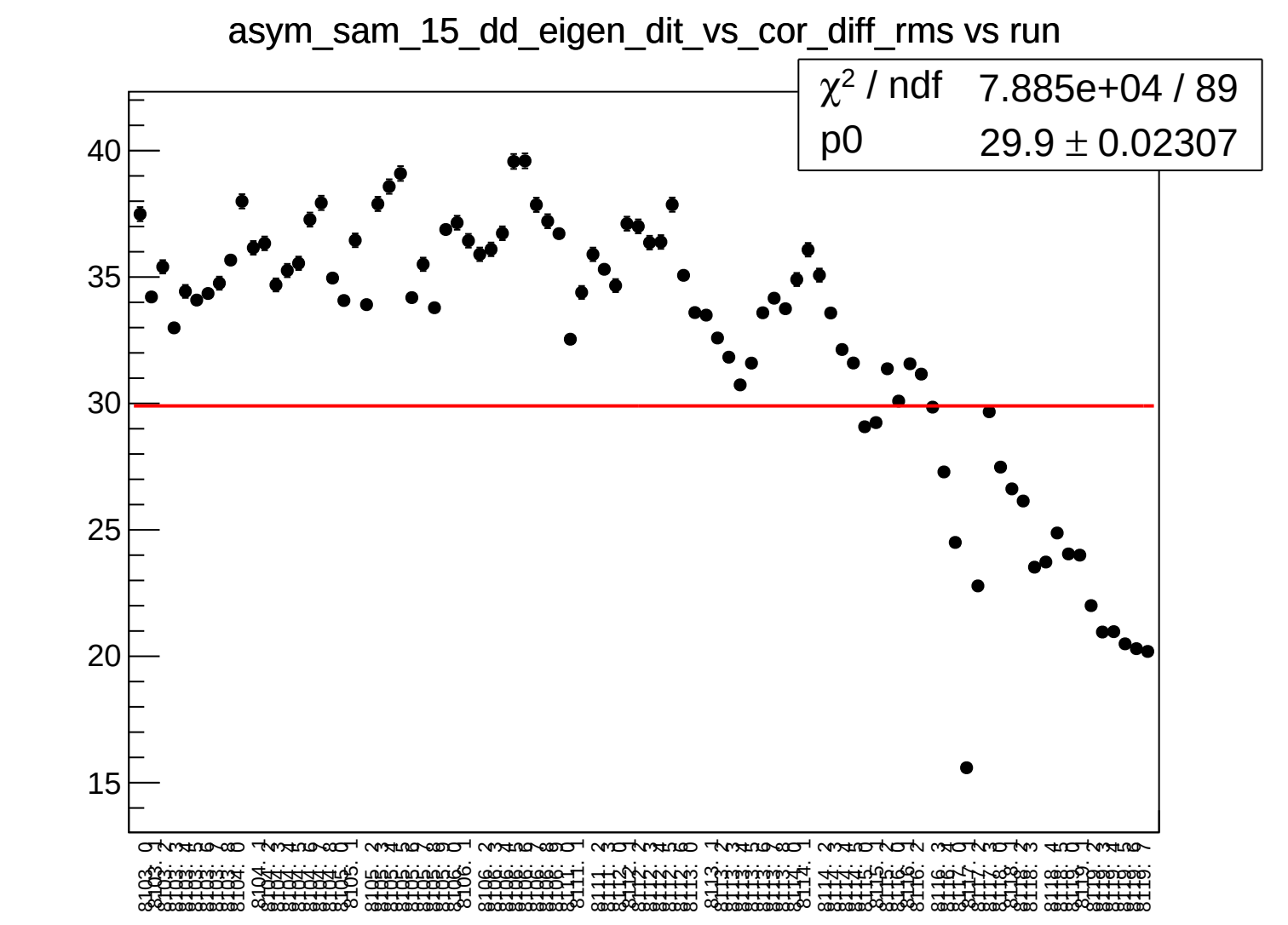

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.65 / 89
p0 4.618e−06 ± 2.909e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −319.4
Std Dev 0
2
1
0
−1
−2

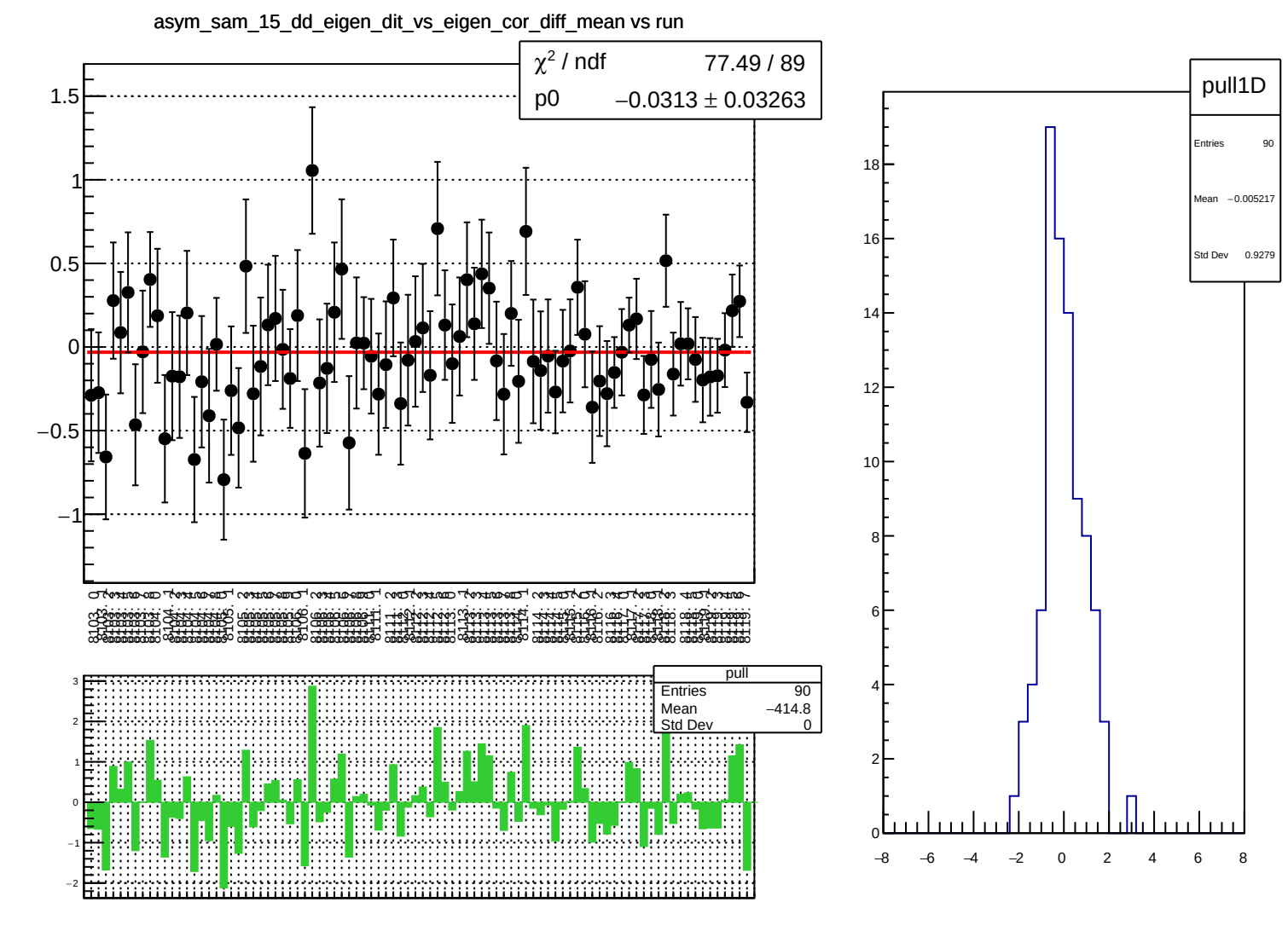

pull1D
Entries 90
Mean 0.01033
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

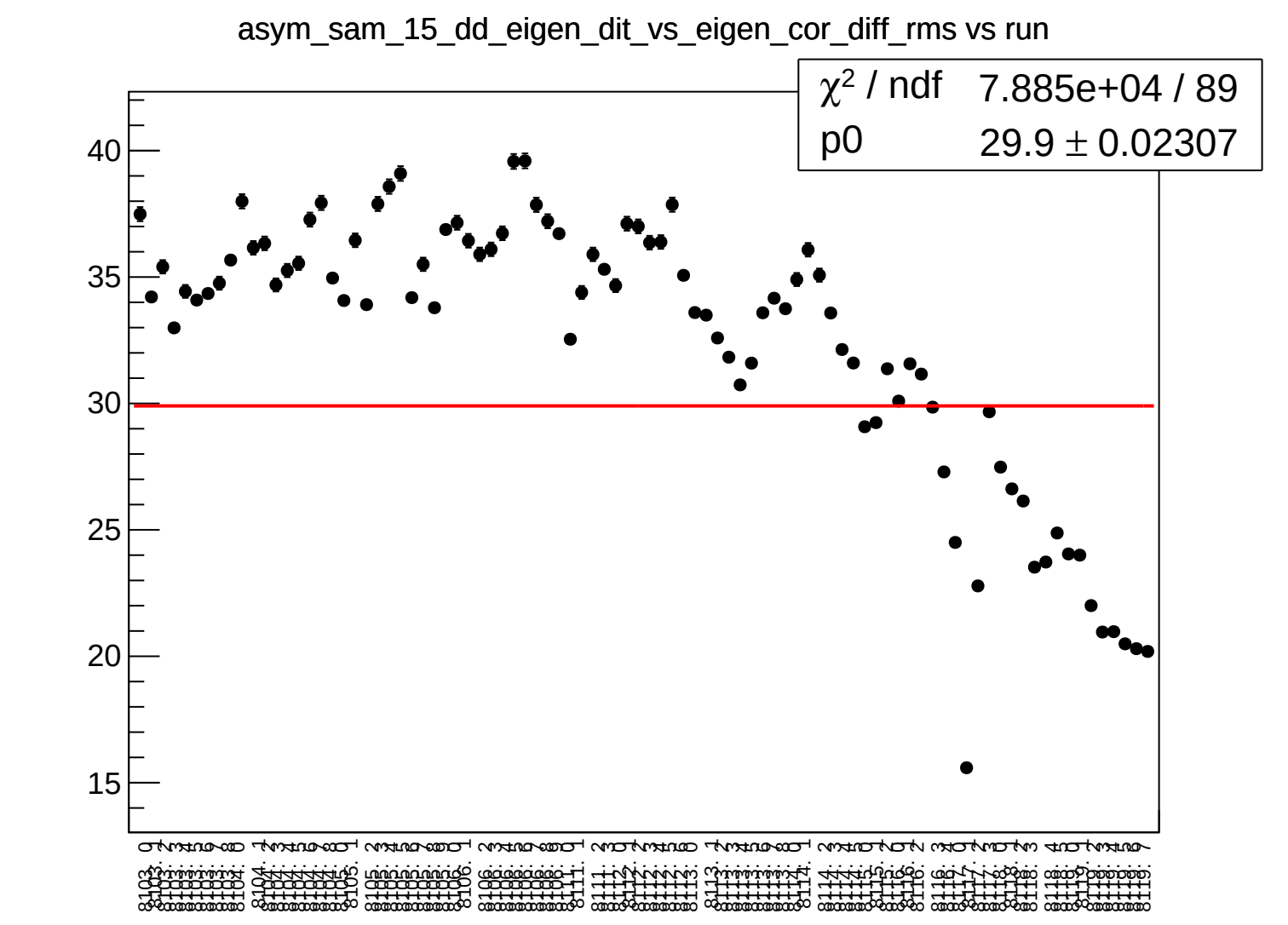

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.3e+04 / 89
p0 0.002717 ± 2.057e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

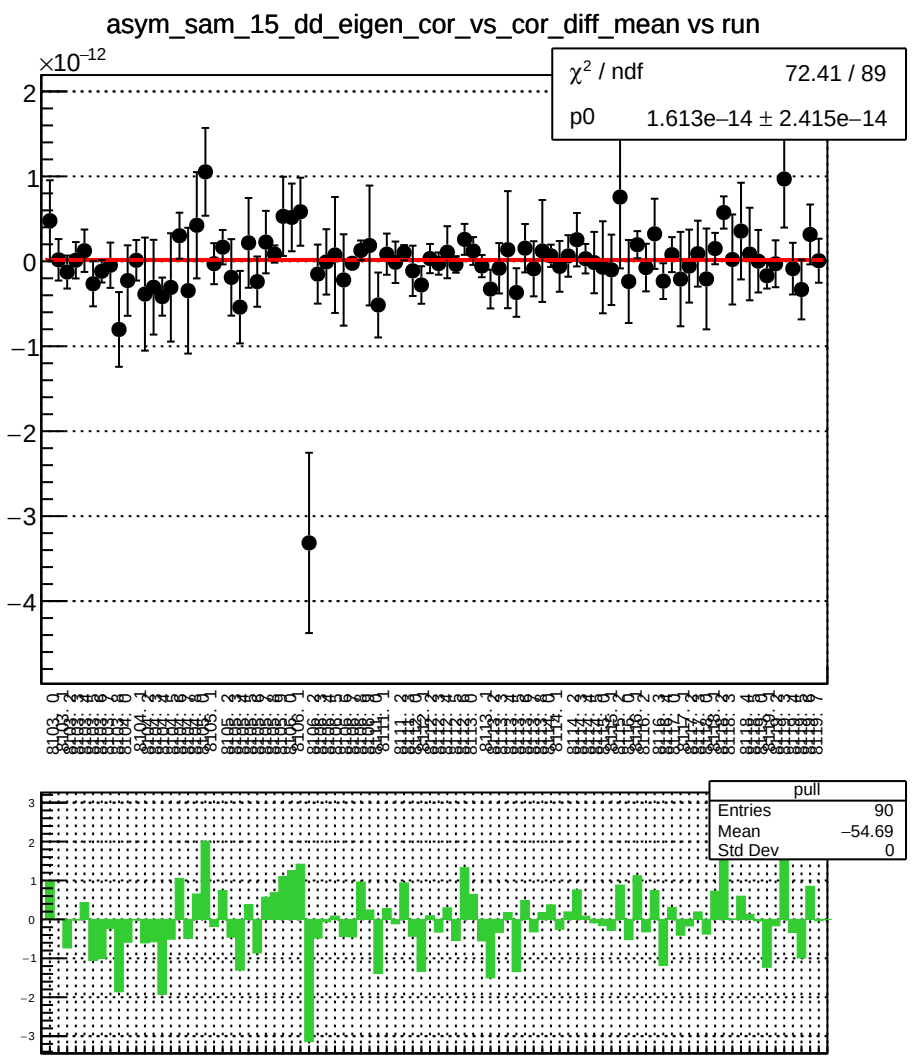

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.49 / 89
p0 −0.0313 ± 0.03263
pull
Entries 90
Mean −414.8
Std Dev 0

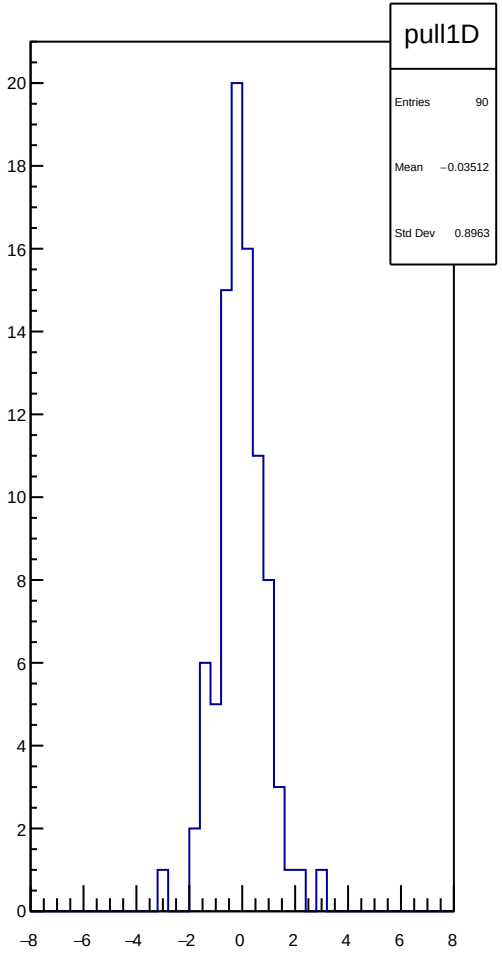

pull1D
Entries 90
Mean −0.005217
Std Dev 0.9279

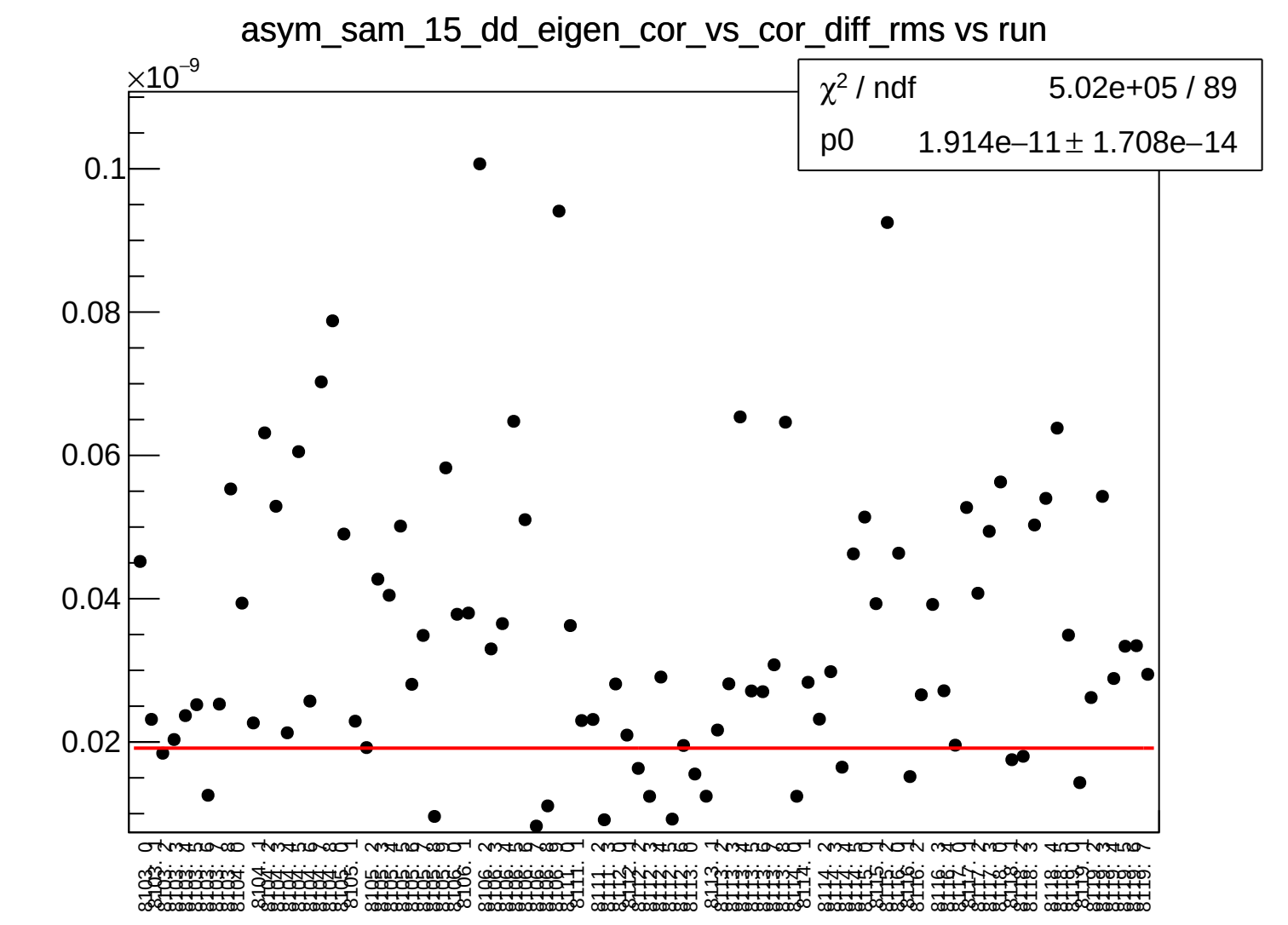

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.885e+04 / 89
p0 29.9 ± 0.02307
40
35
30
25
20
15

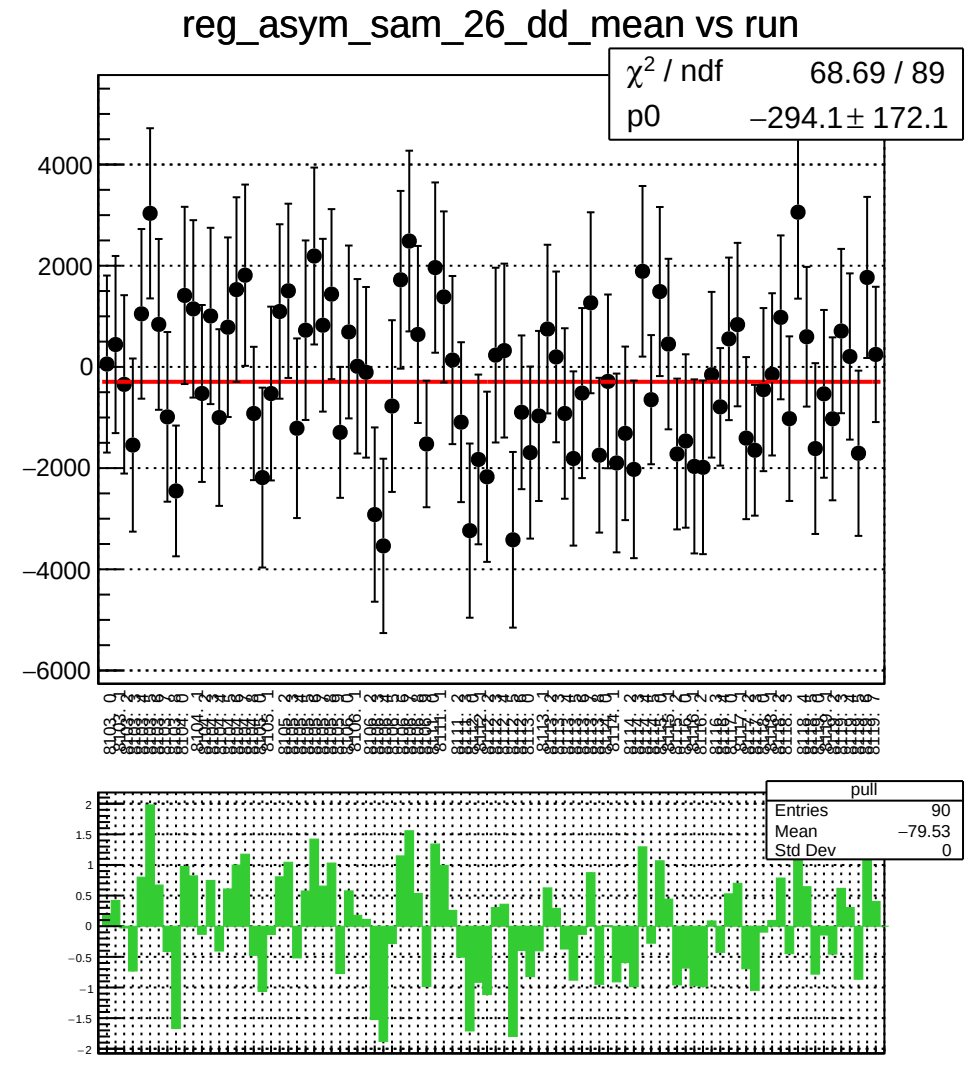

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.49 / 89
p0 −0.0313 ± 0.03263
pull
Entries 90
Mean −414.8
Std Dev 0
pull1D
Entries 90
Mean −0.005217
Std Dev 0.9279

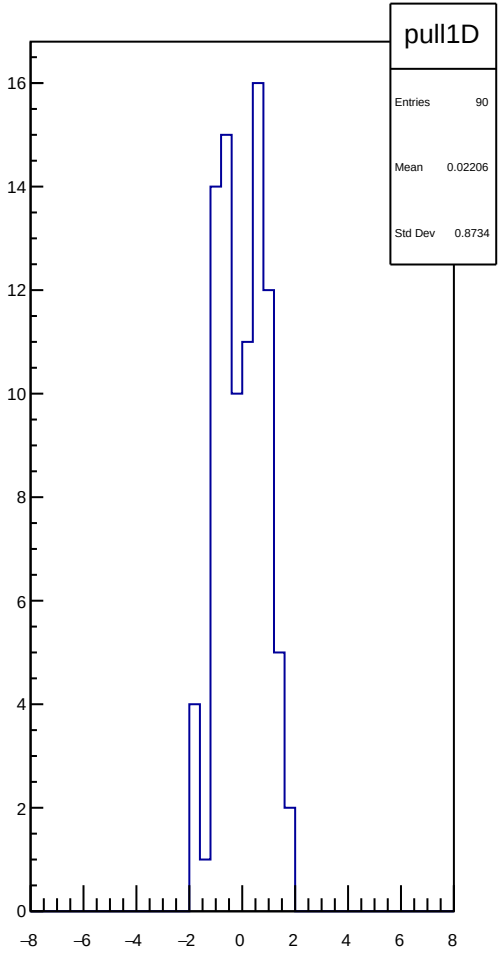

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.885e+04 / 89
p0 29.9 ± 0.02307
40
35
30
25
20
15

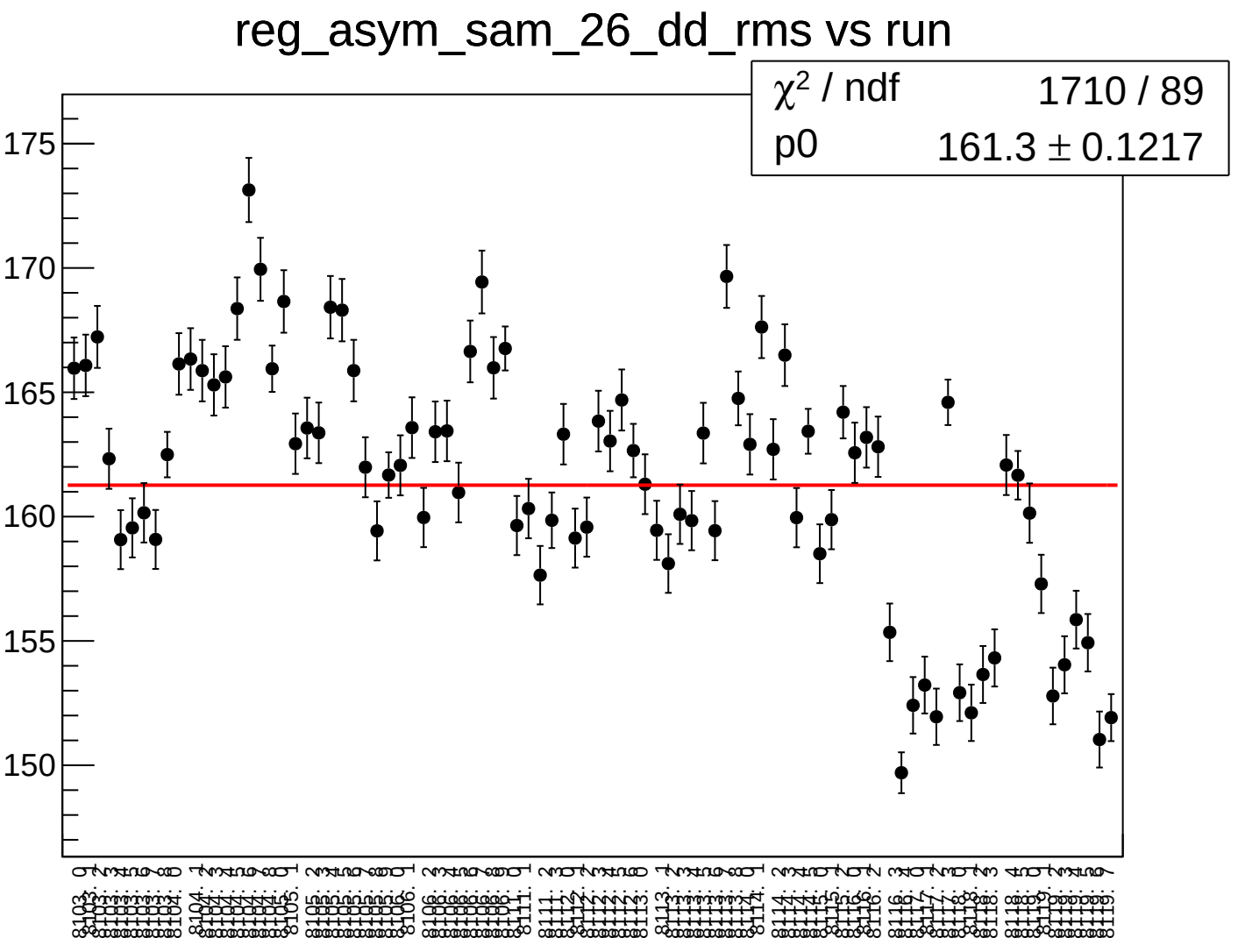

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 72.41 / 89
p0 1.613e−14 ± 2.415e−14
pull
Entries 90
Mean −54.69
Std Dev 0

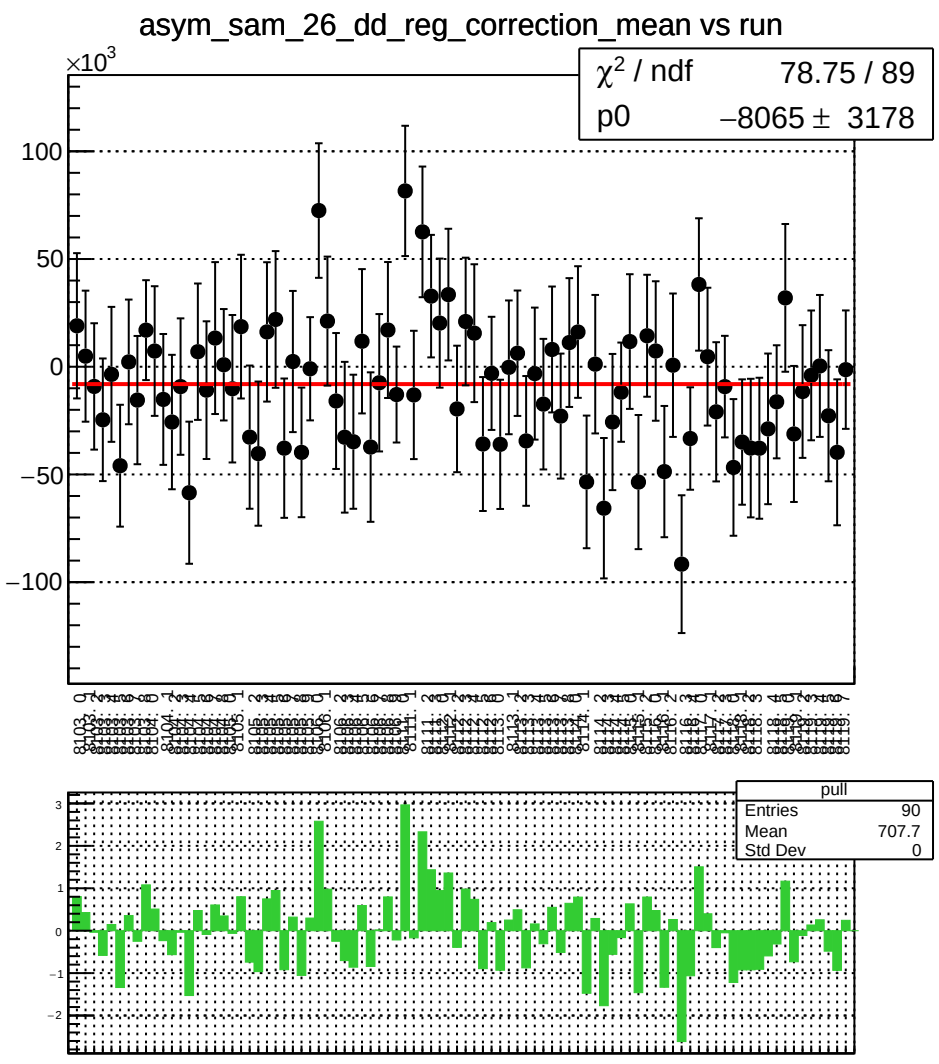

pull1D
Entries 90
Mean −0.03512
Std Dev 0.8963

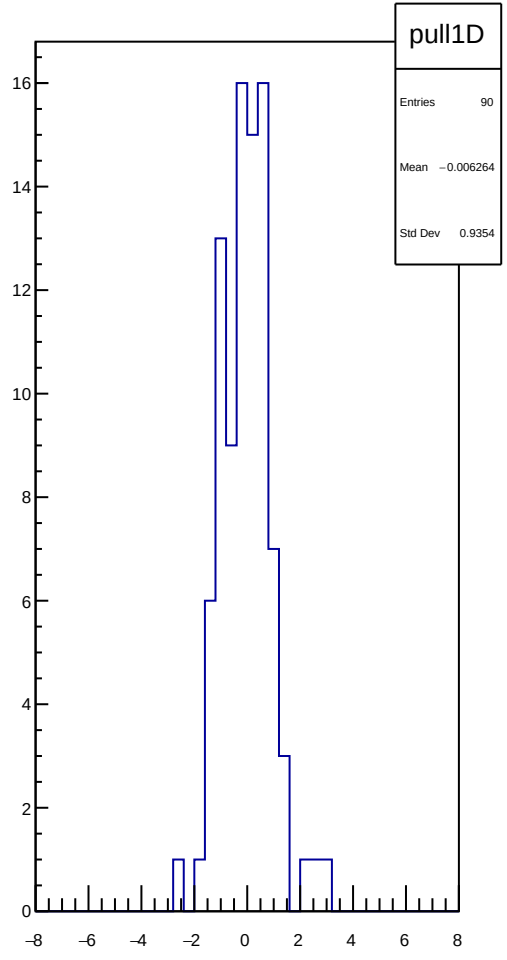

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.02e+05 / 89
p0 1.914e−11 ± 1.708e−14
0.1
0.08
0.06
0.04
0.02

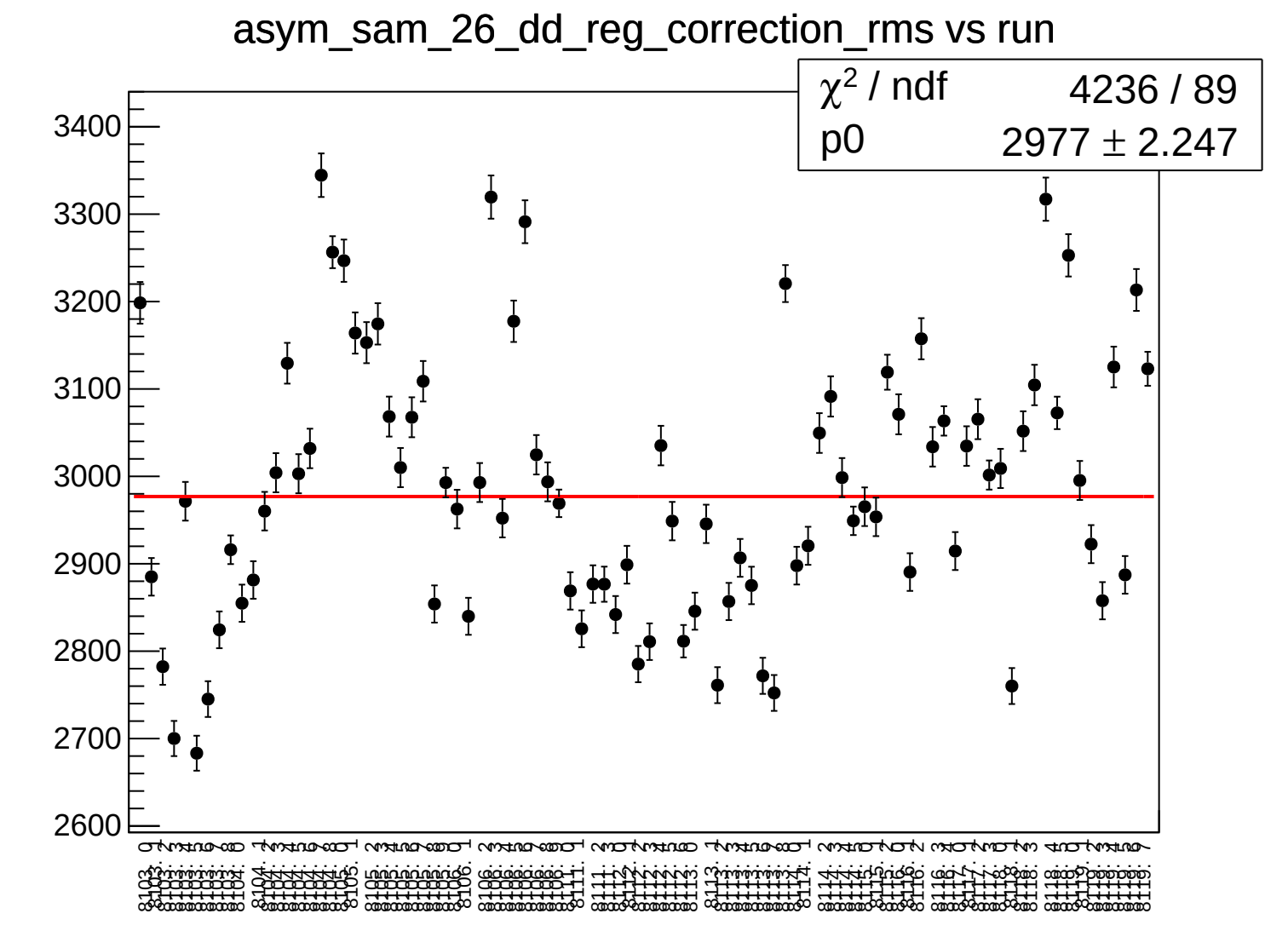

reg_asym_sam_26_dd_mean vs run
χ² / ndf 68.69 / 89
p0 −294.1 ± 172.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −79.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

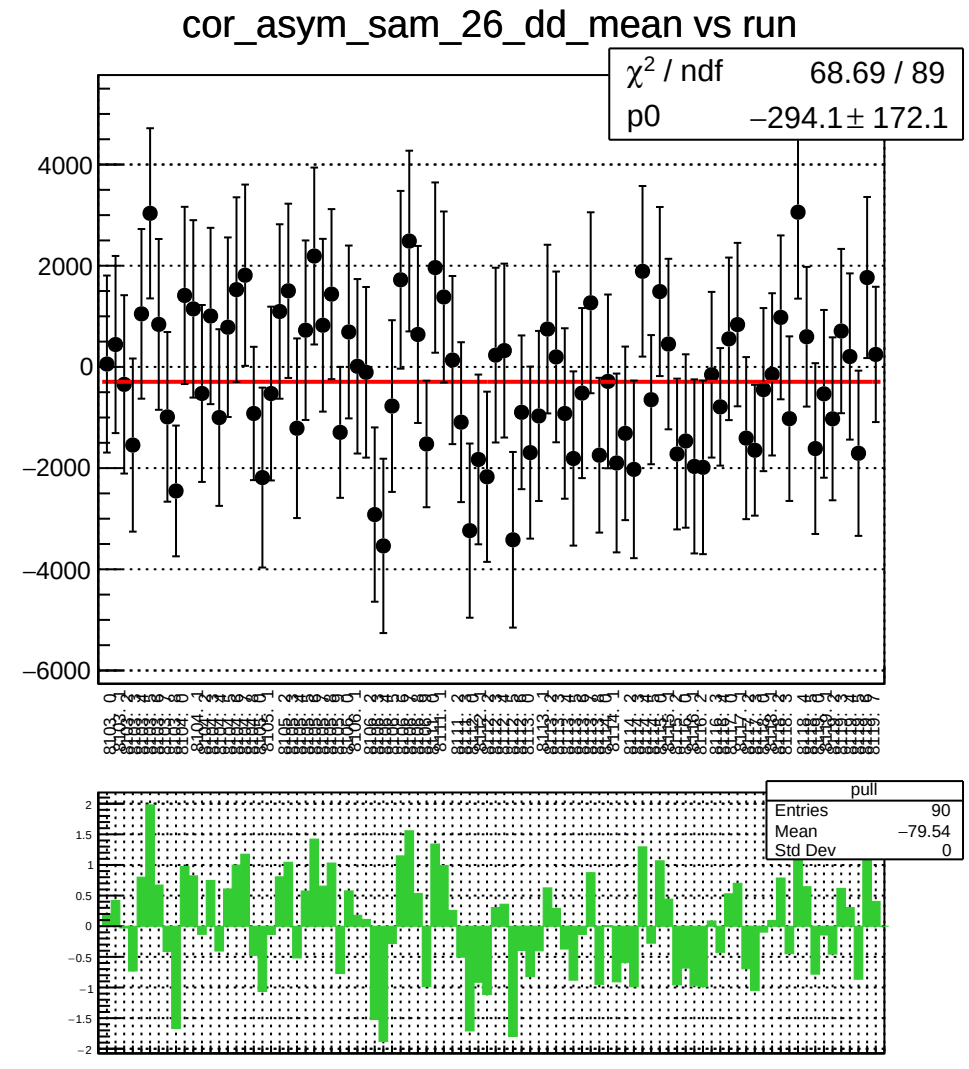

pull1D
Entries 90
Mean 0.02206
Std Dev 0.8734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

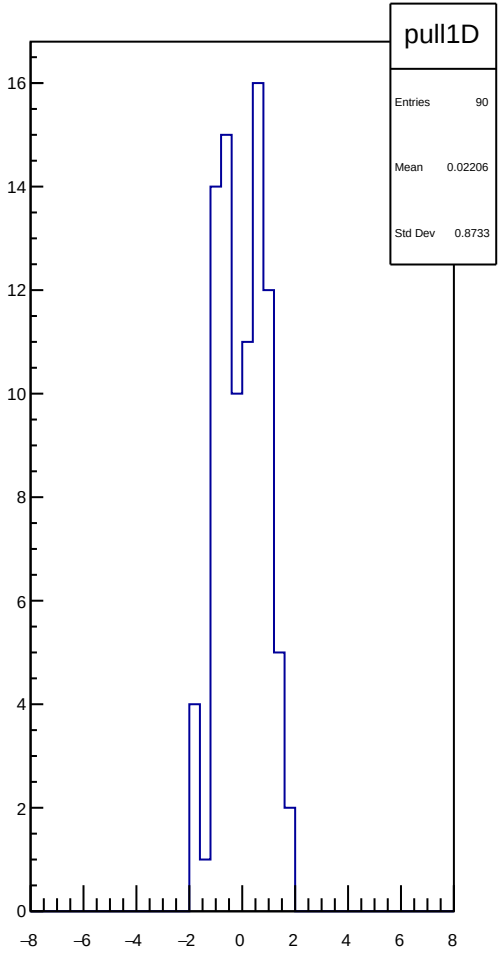

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1710 / 89
p0 161.3 ± 0.1217
175
170
165
160
155
150

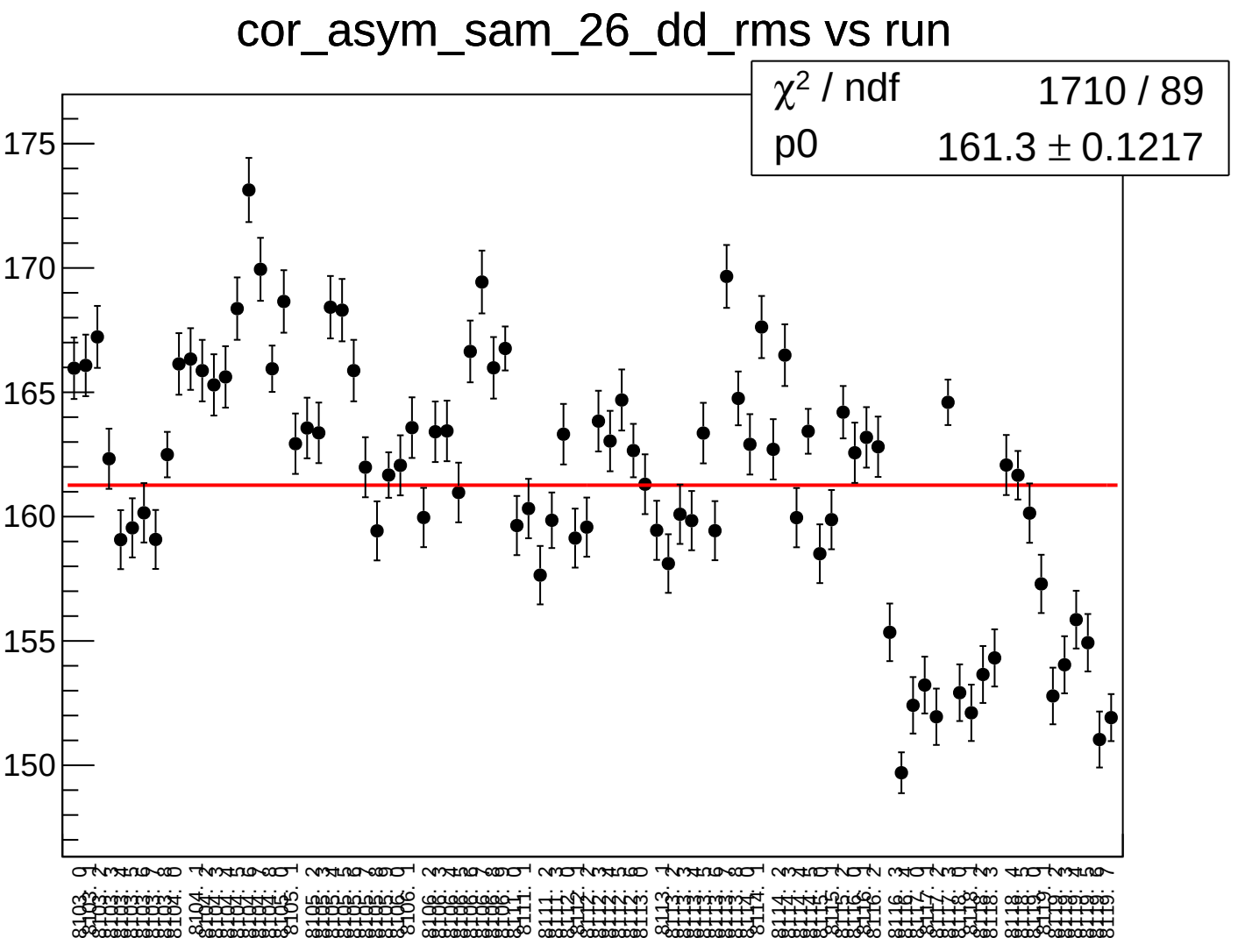

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.75 / 89
p0 −8065 ± 3178
100
50
0
−50
−100
pull
Entries 90
Mean 707.7
Std Dev 0
3
2
1
0
−1
−2

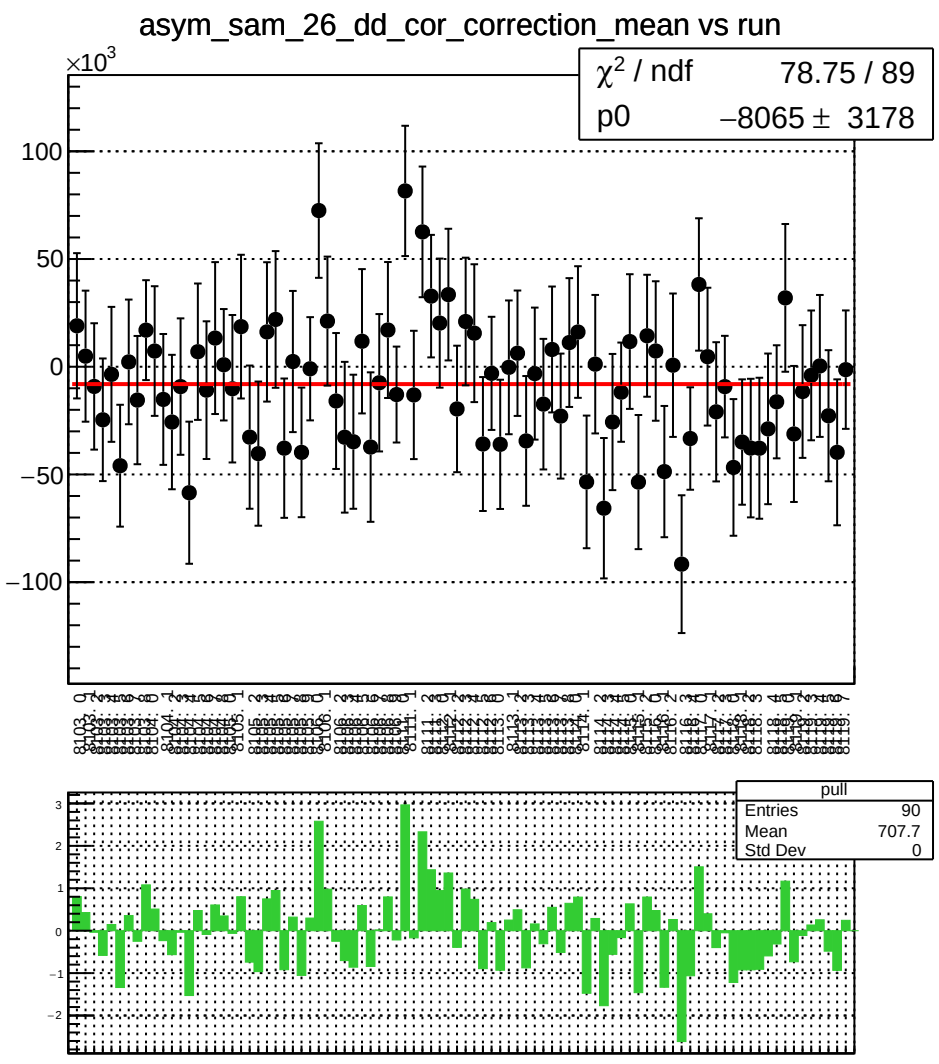

pull1D
Entries 90
Mean −0.006264
Std Dev 0.9354
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

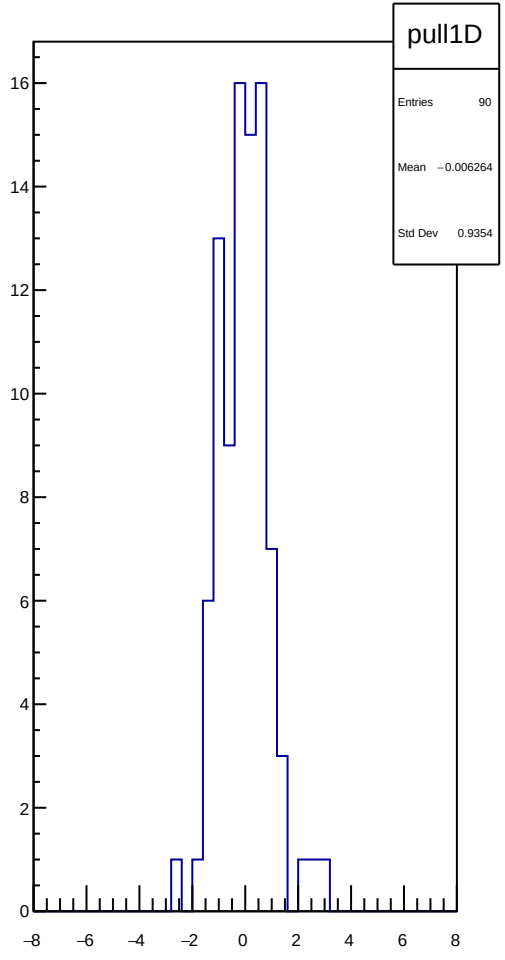

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 4236 / 89
p0 2977 ± 2.247
3400
3300
3200
3100
3000
2900
2800
2700
2600

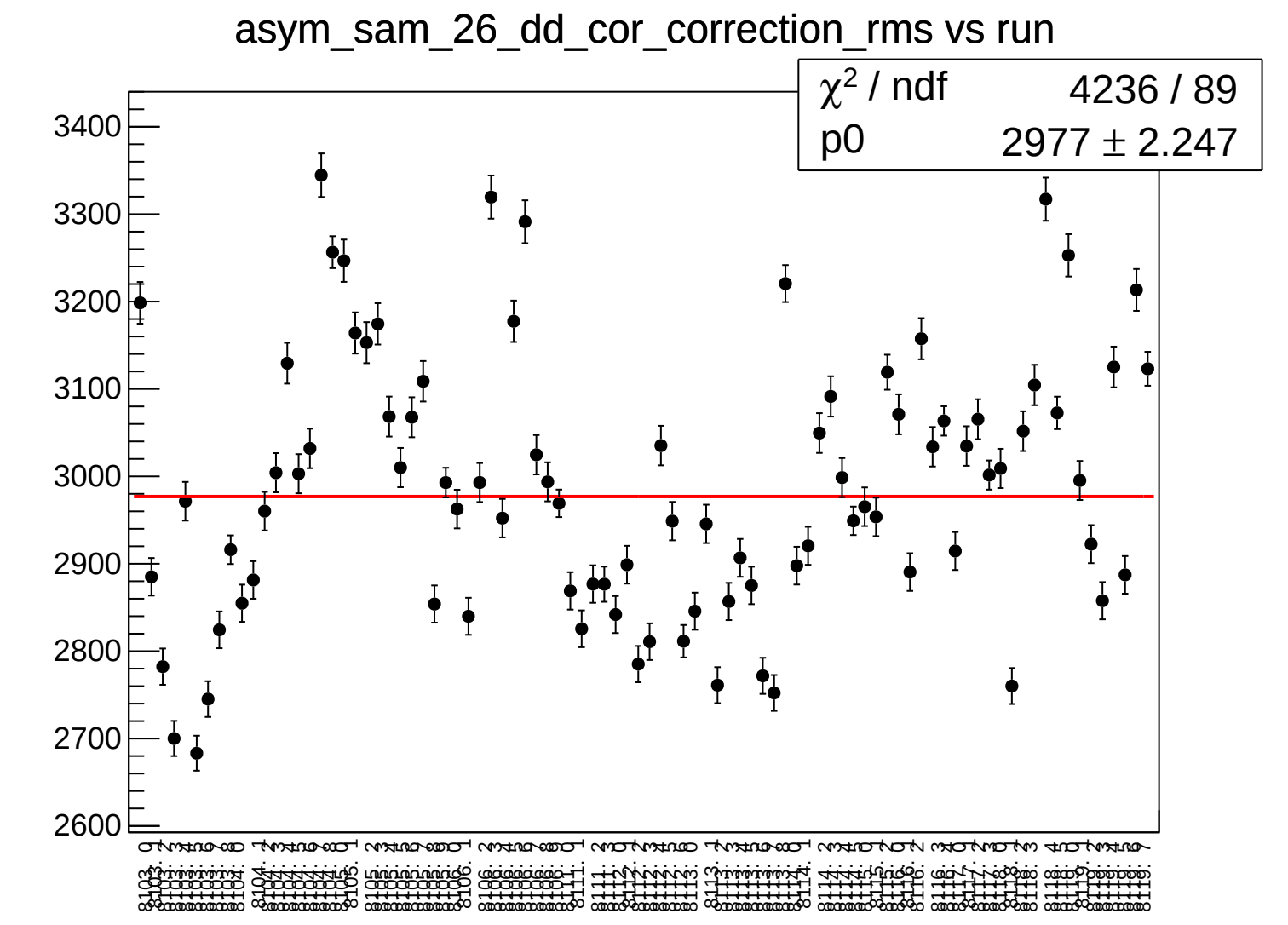

cor_asym_sam_26_dd_mean vs run
χ² / ndf 68.69 / 89
p0 −294.1 ± 172.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −79.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

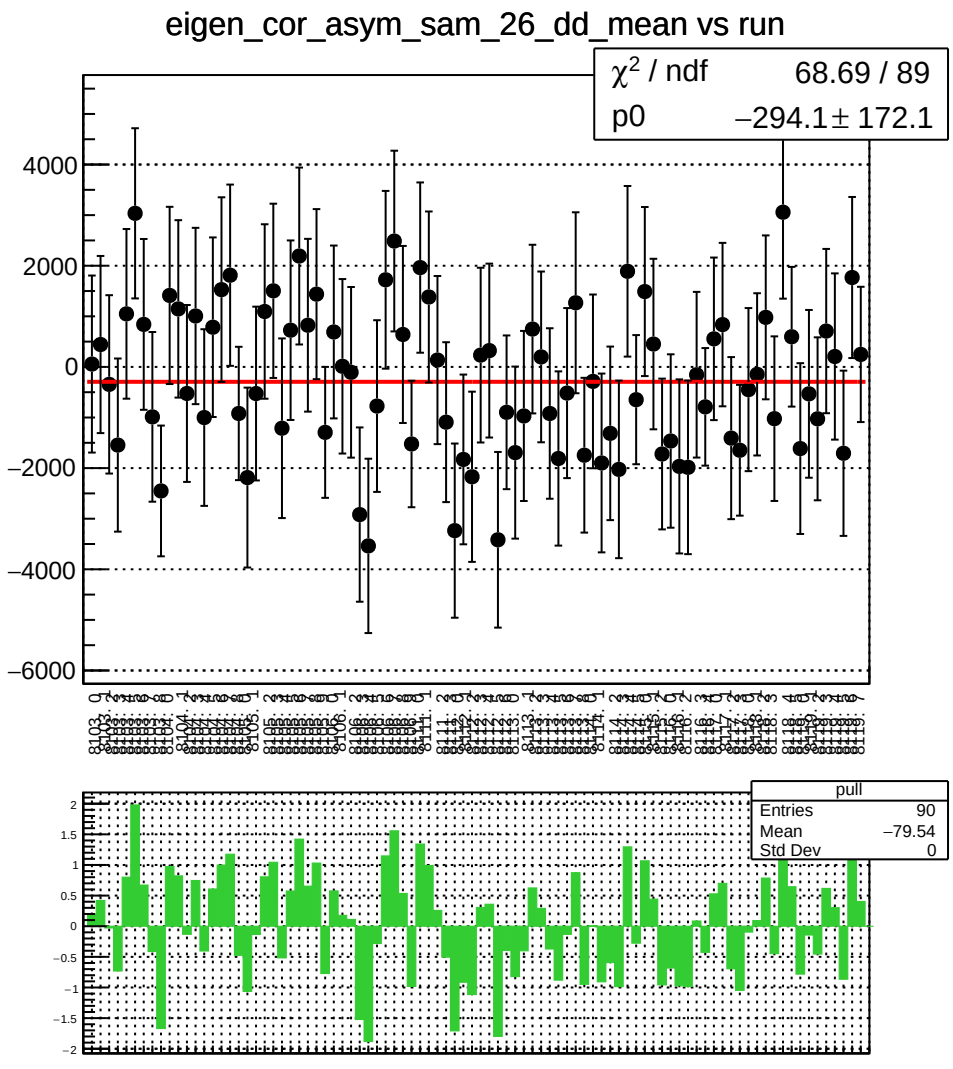

pull1D
Entries 90
Mean 0.02206
Std Dev 0.8733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

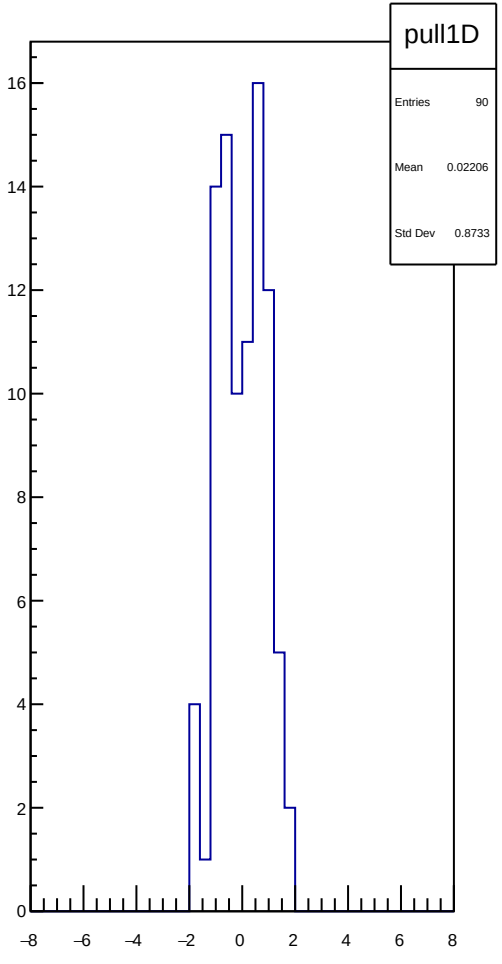

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1710 / 89
p0 161.3 ± 0.1217
175
170
165
160
155
150

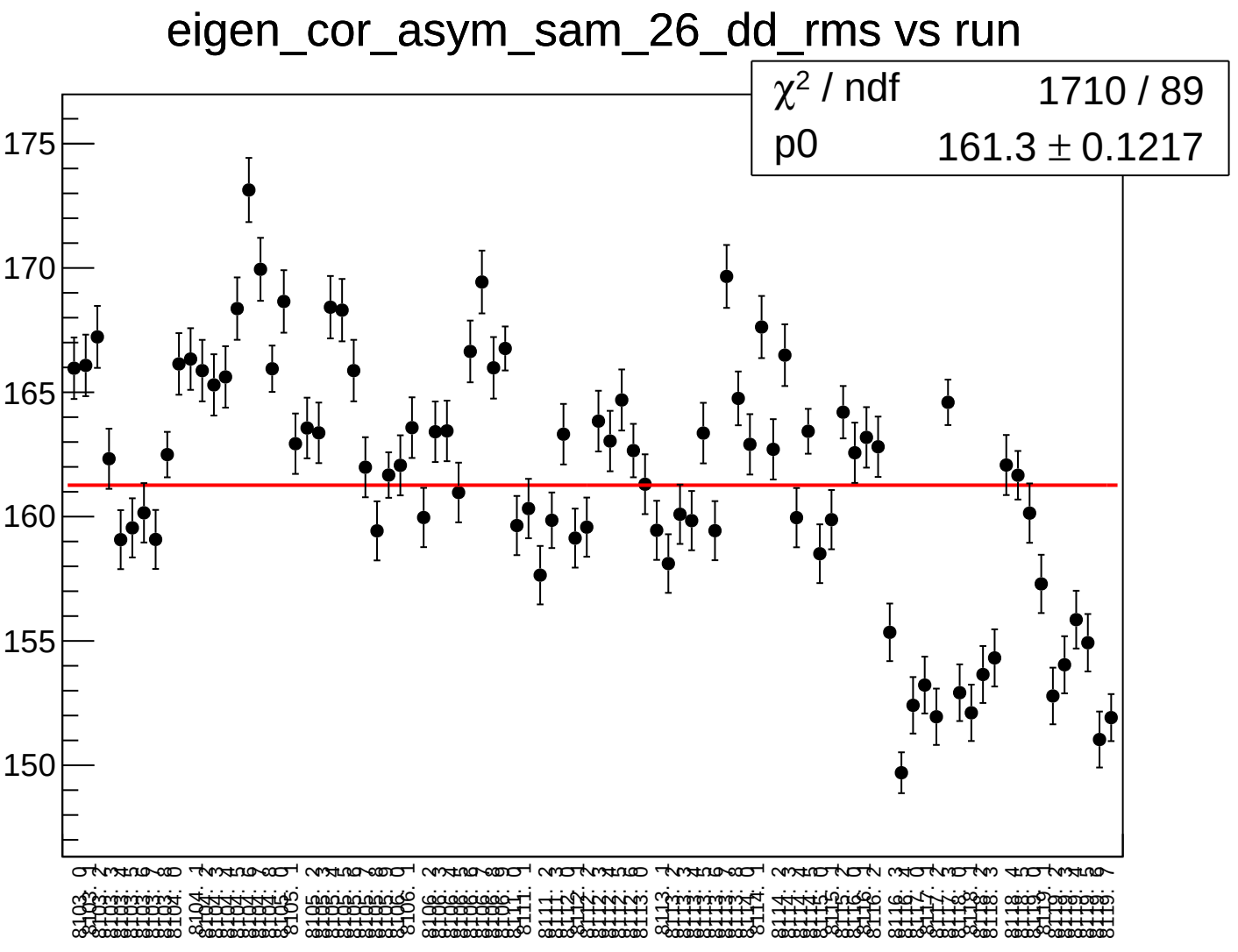

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.75 / 89
p0 −8065 ± 3178
100
50
0
−50
−100
pull
Entries 90
Mean 707.7
Std Dev 0
3
2
1
0
−1
−2

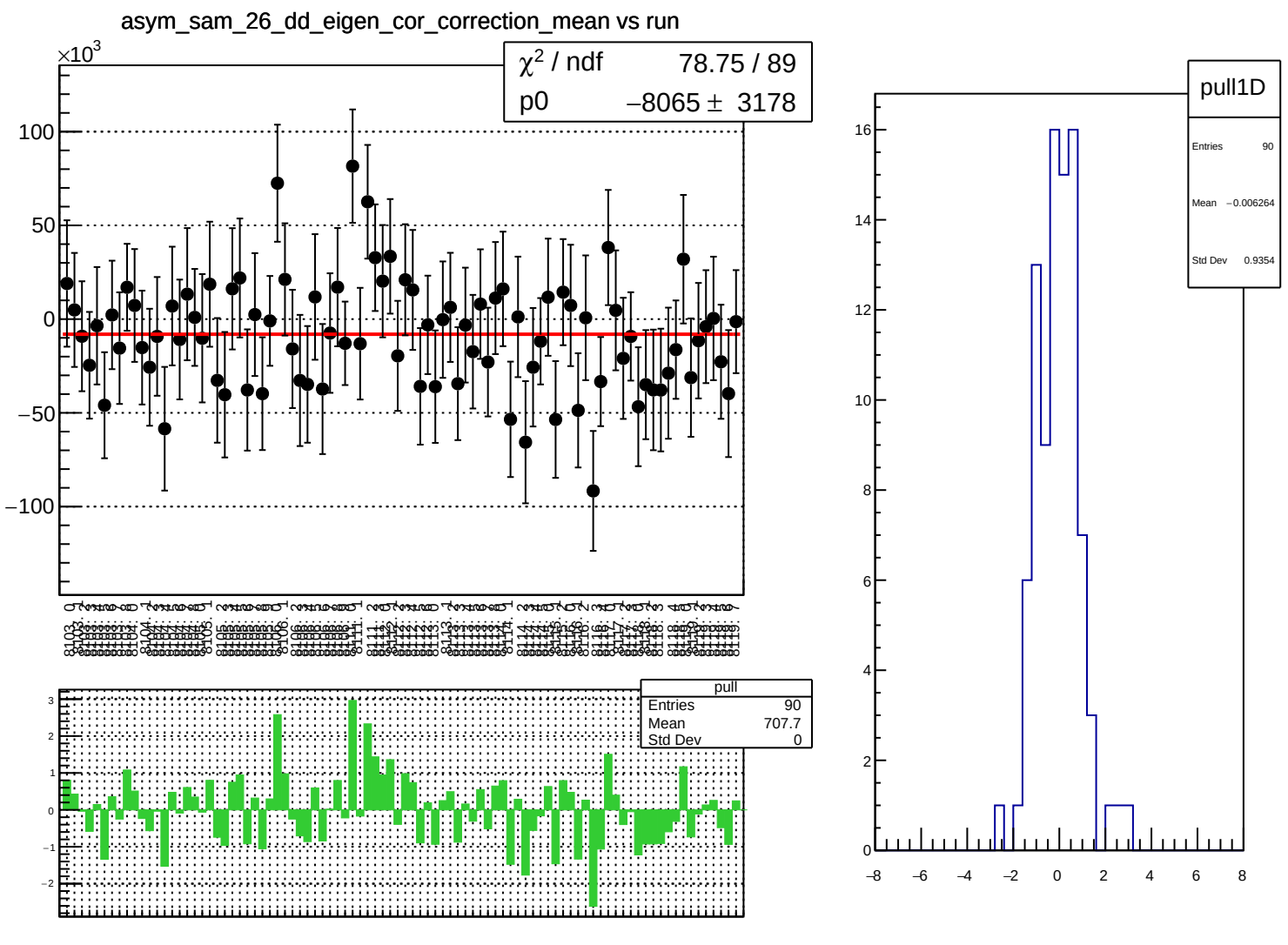

pull1D
Entries 90
Mean −0.006264
Std Dev 0.9354
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

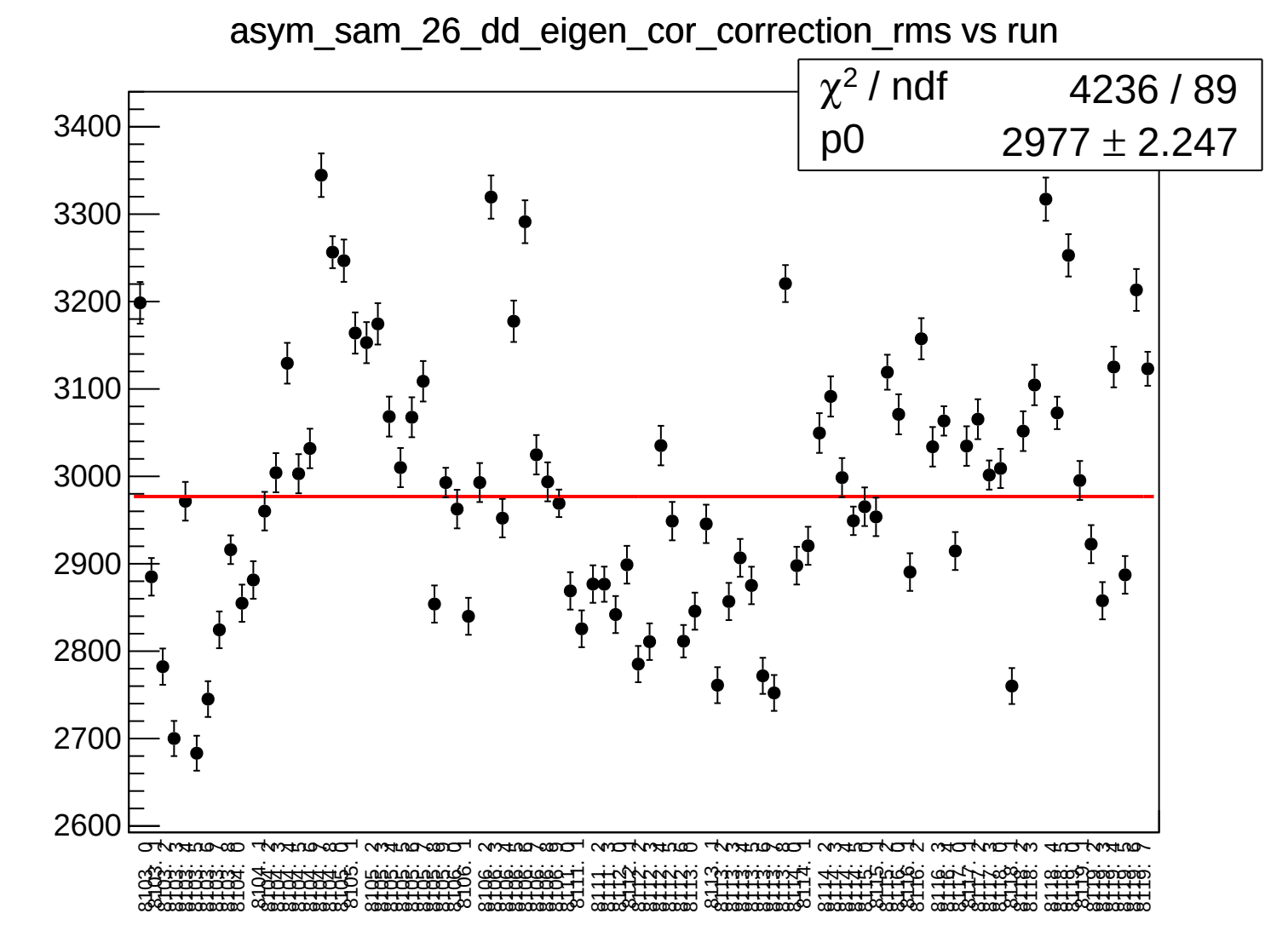

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 4236 / 89
p0 2977 ± 2.247
3400
3300
3200
3100
3000
2900
2800
2700
2600

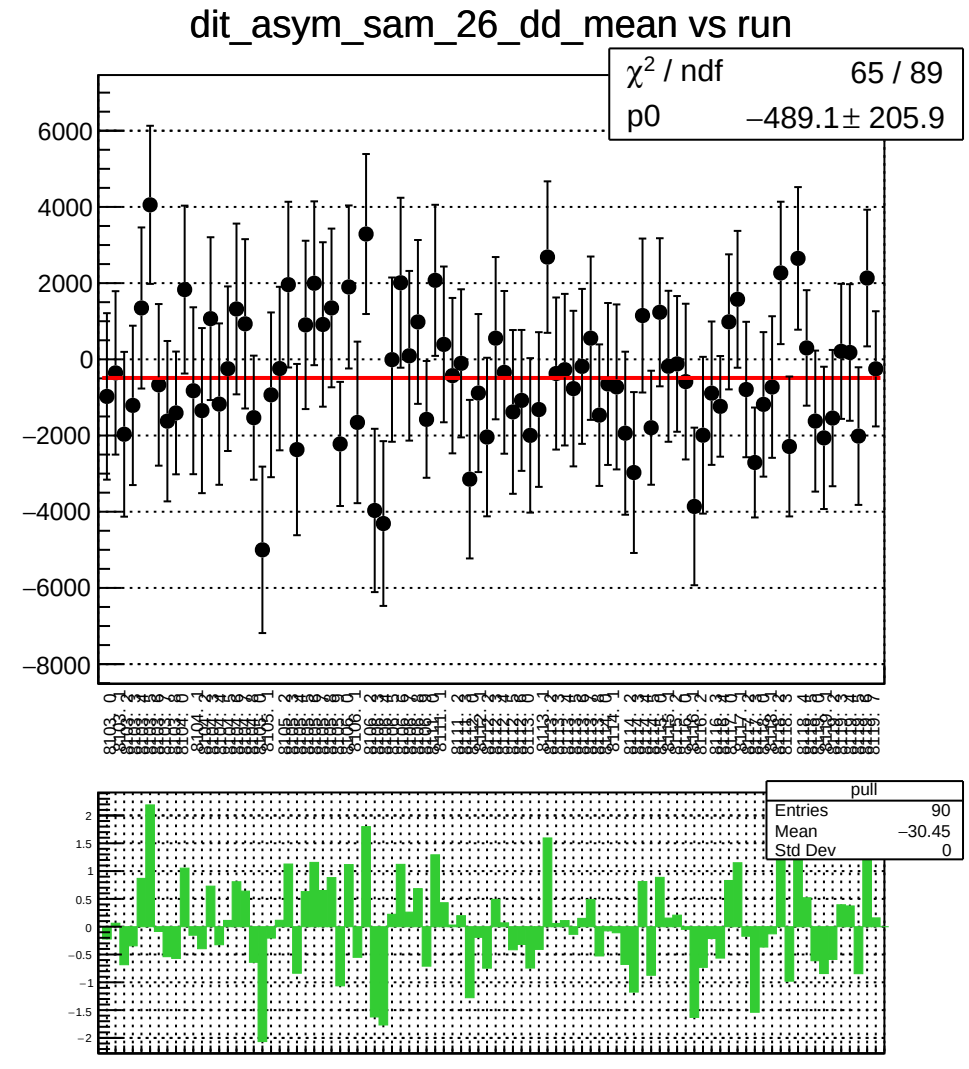

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 68.69 / 89
p0 −294.1 ± 172.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −79.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

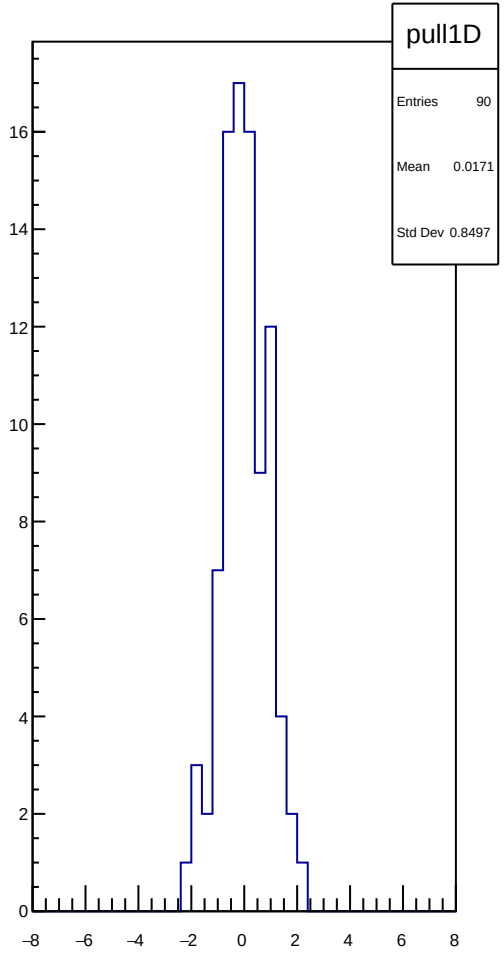

pull1D
Entries 90
Mean 0.02206
Std Dev 0.8733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

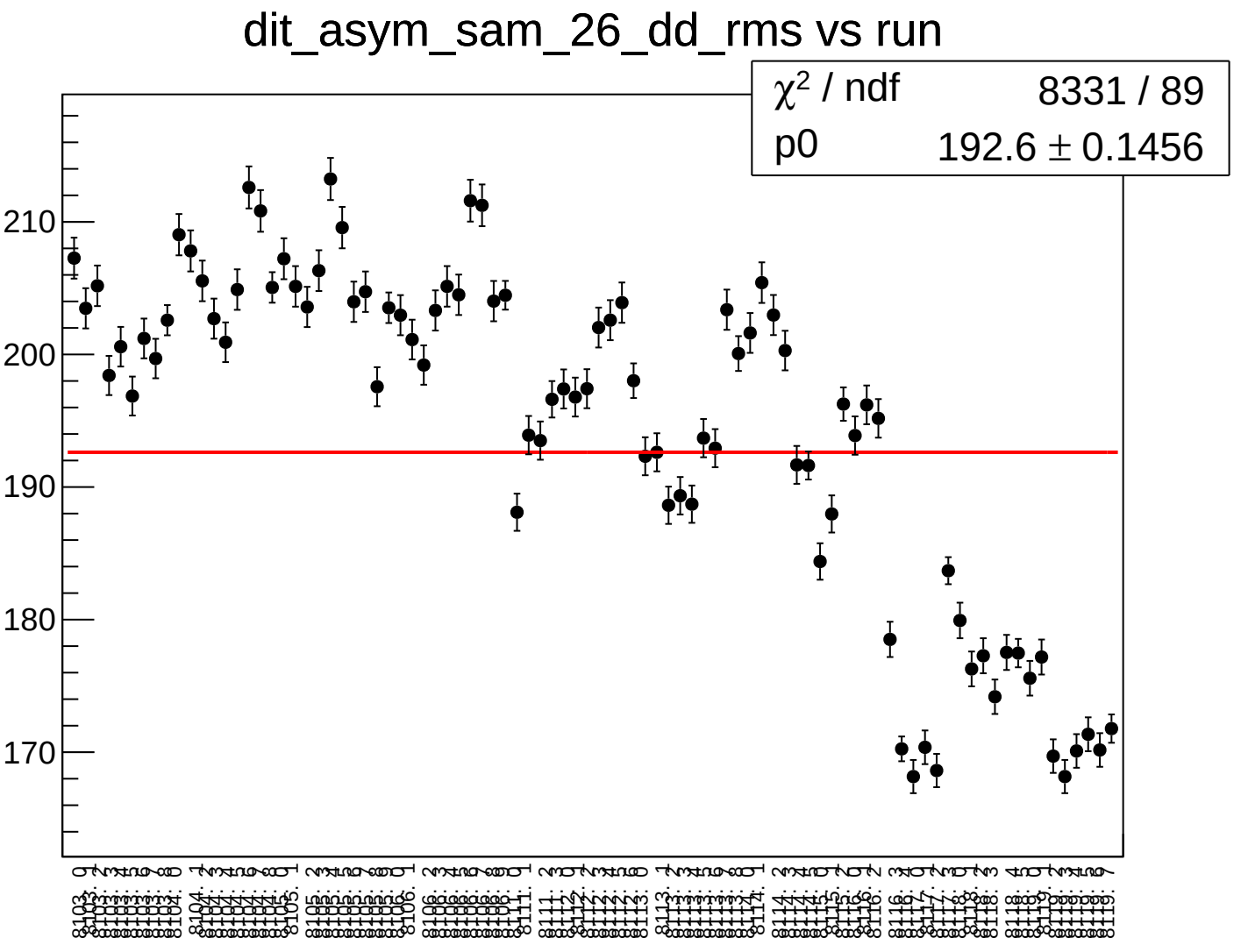

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1710 / 89
p0 161.3 ± 0.1217
175
170
165
160
155
150

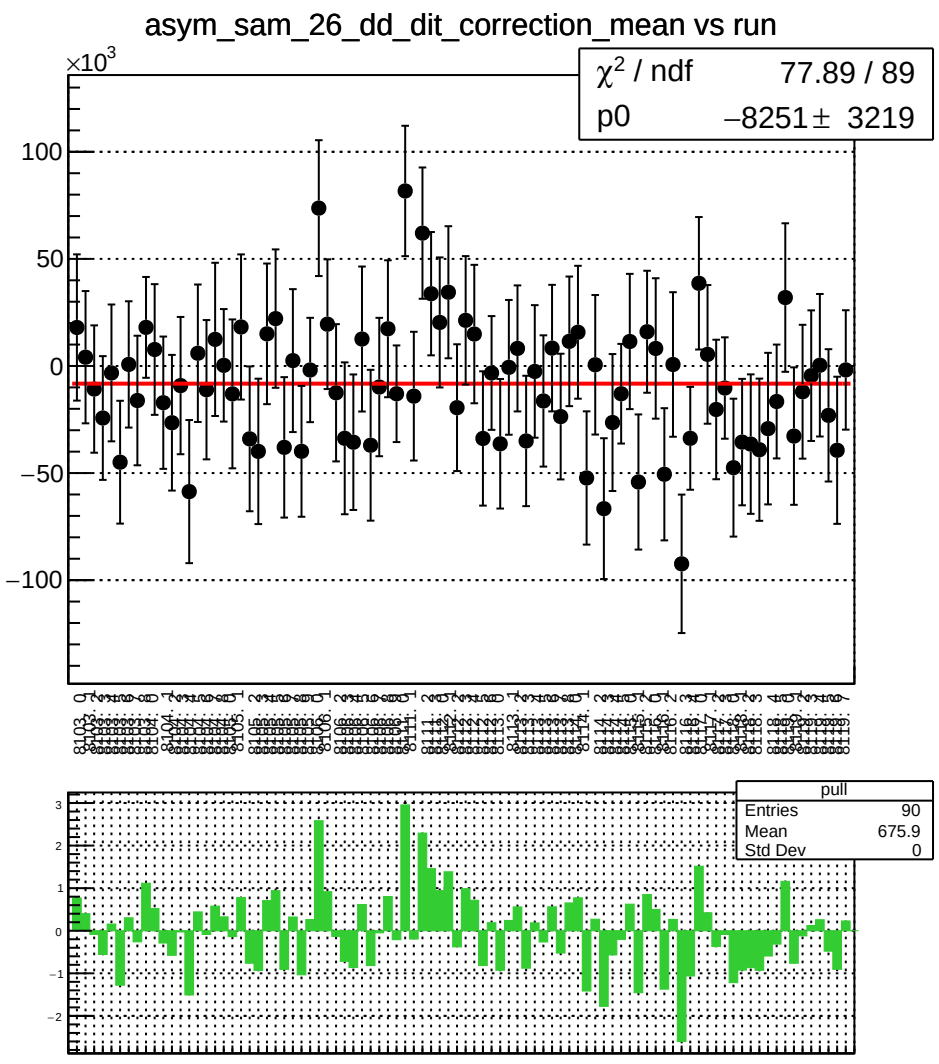

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 78.75 / 89
p0 −8065 ± 3178
100
50
0
−50
−100
pull
Entries 90
Mean 707.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.006264
Std Dev 0.9354
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

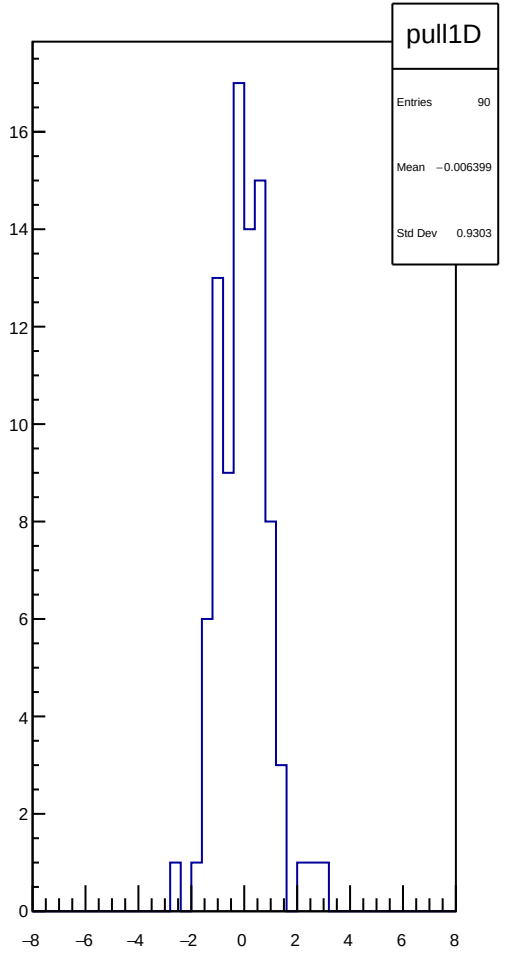

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4236 / 89
p0 2977 ± 2.247
3400
3300
3200
3100
3000
2900
2800
2700
2600

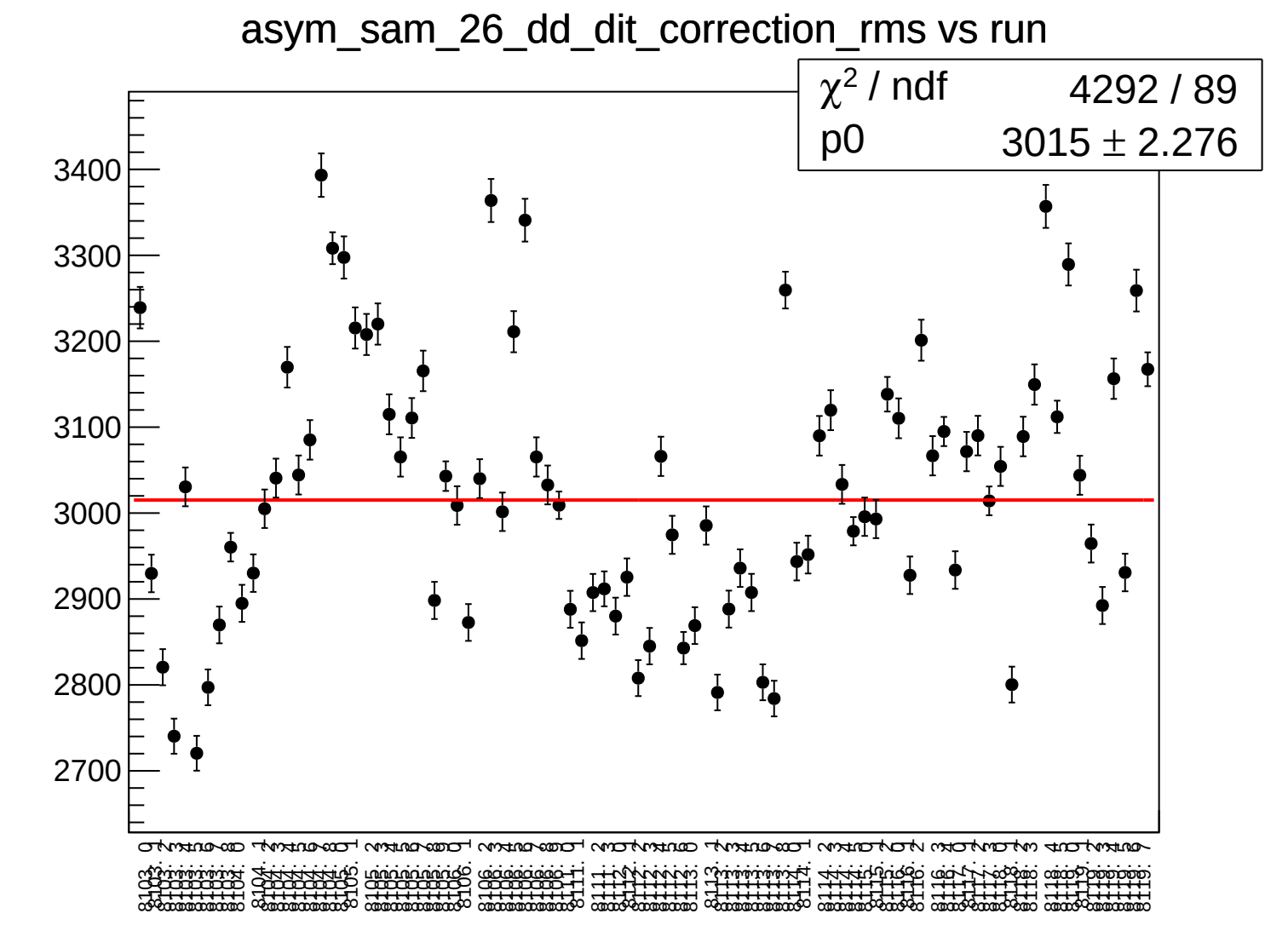

dit_asym_sam_26_dd_mean vs run
χ² / ndf 65 / 89
p0 −489.1± 205.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −30.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

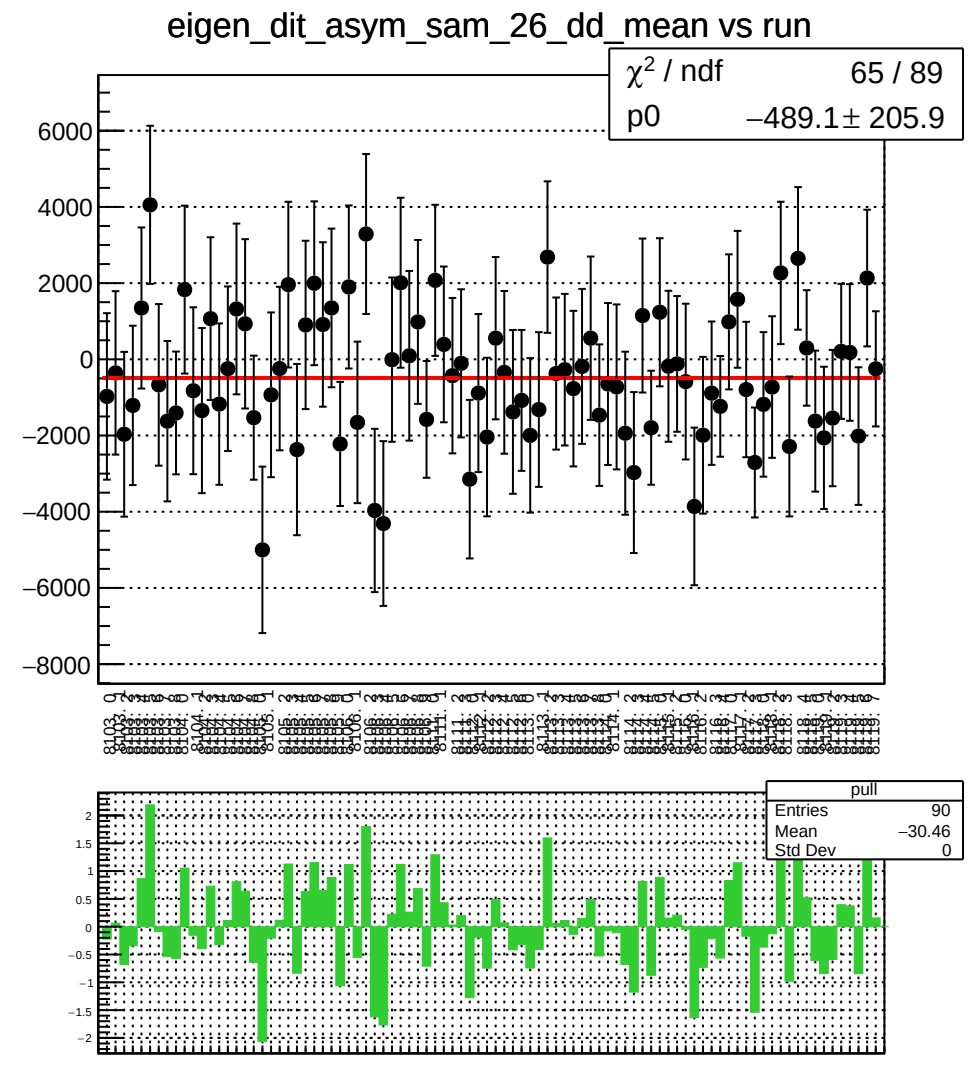

pull1D
Entries 90
Mean 0.0171
Std Dev 0.8497
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

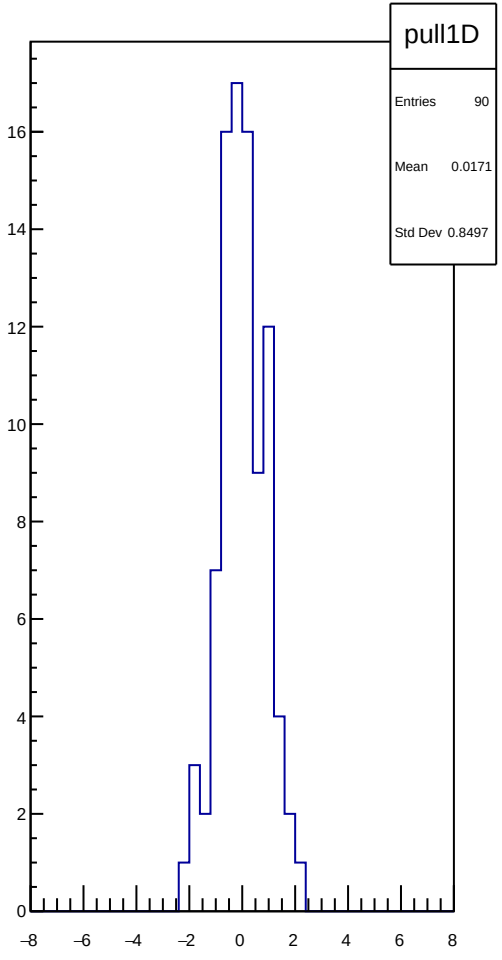

dit_asym_sam_26_dd_rms vs run
χ² / ndf 8331 / 89
p0 192.6 ± 0.1456
210
200
190
180
170

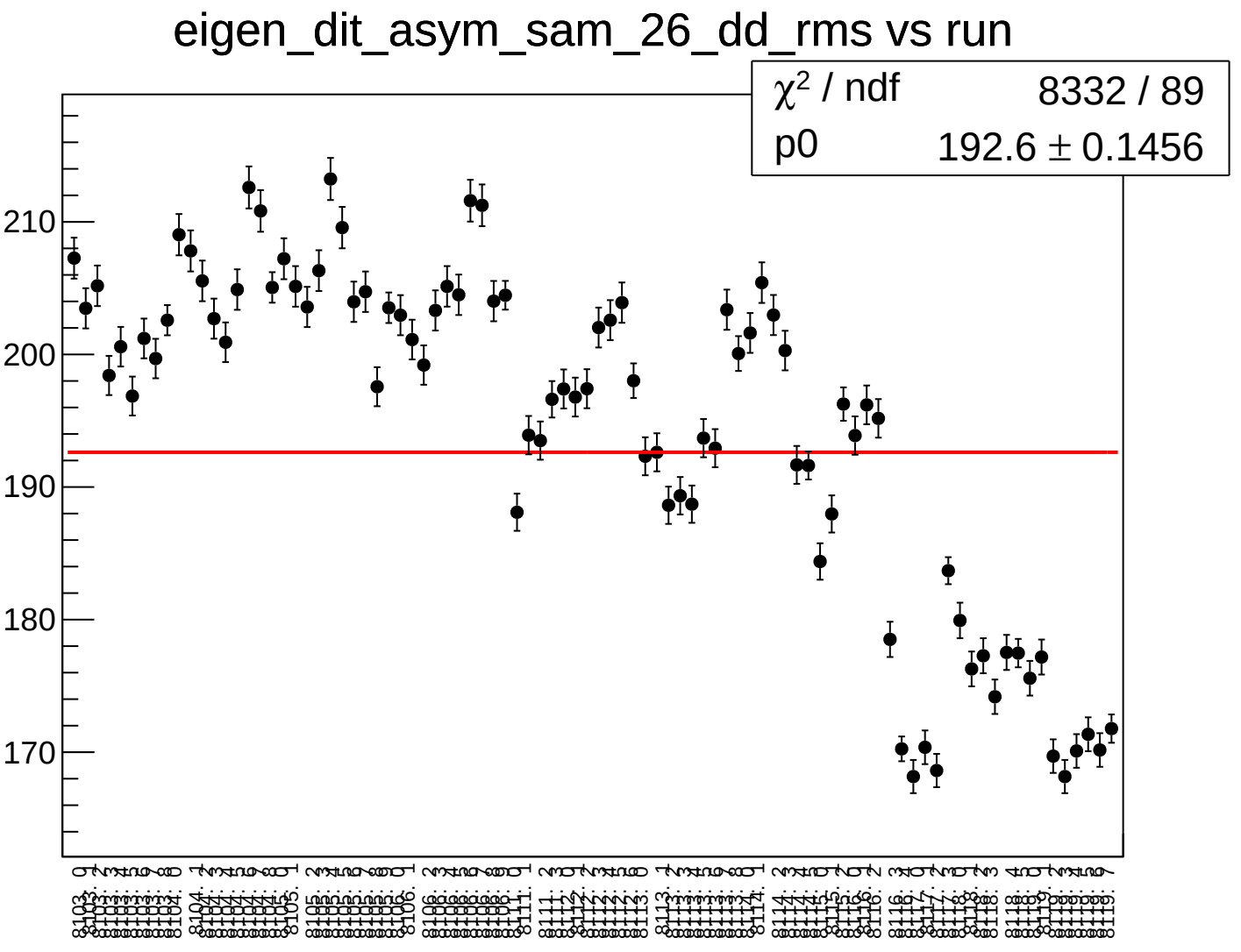

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.89 / 89
p0 −8251 ± 3219
100
50
0
−50
−100
pull
Entries 90
Mean 675.9
Std Dev 0
3
2
1
0
−1
−2

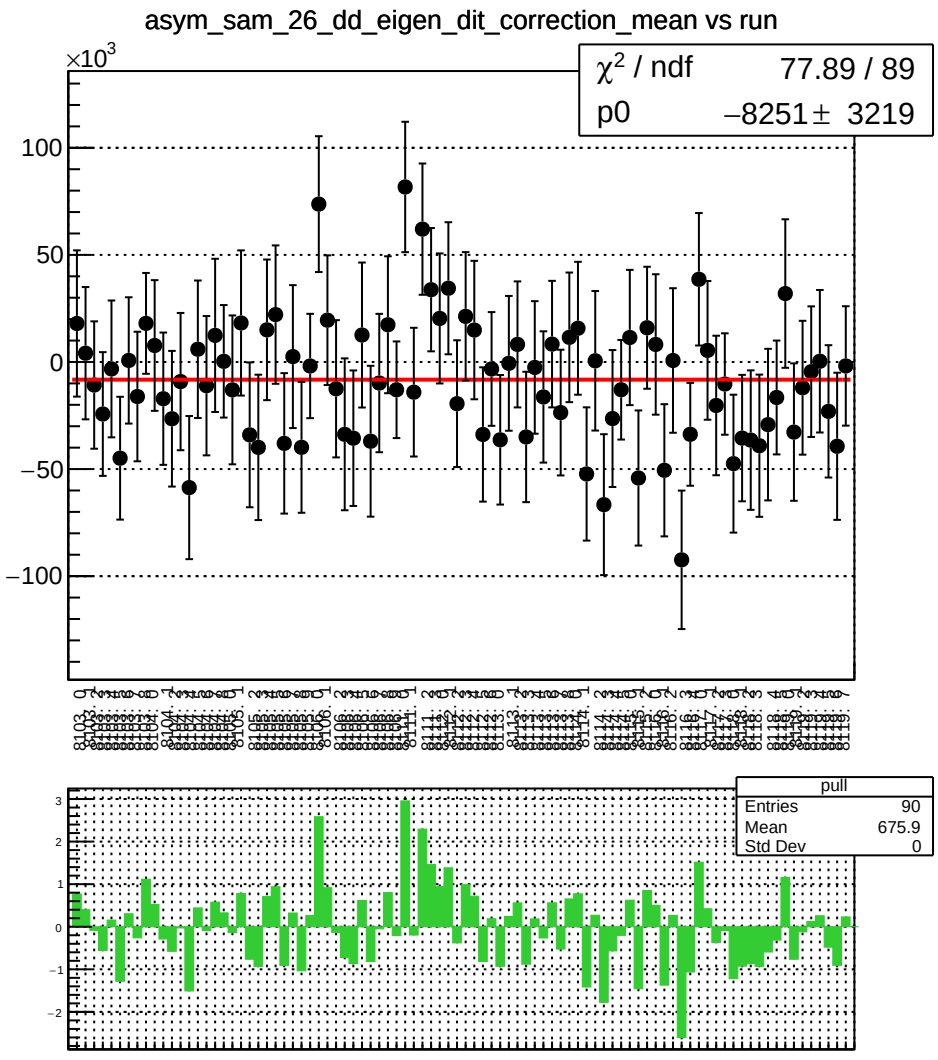

pull1D
Entries 90
Mean −0.006399
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

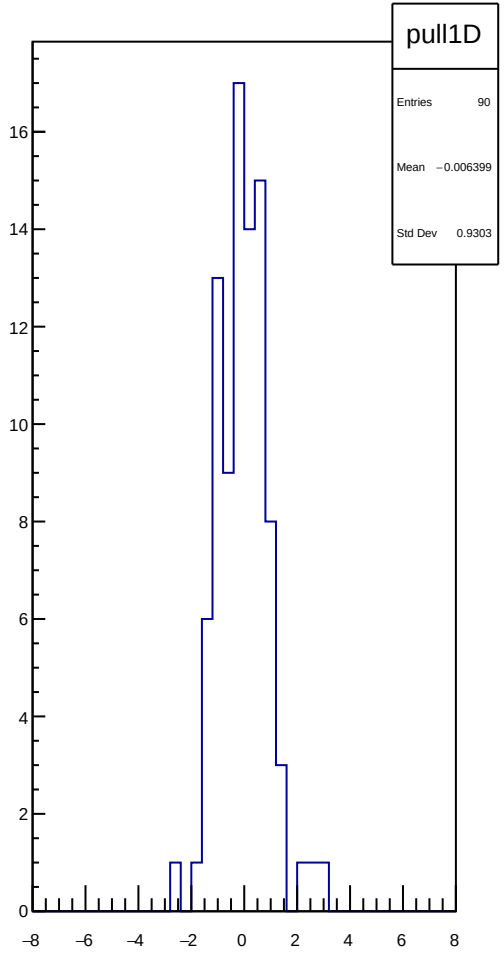

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 4292 / 89
p0 3015 ± 2.276
3400
3300
3200
3100
3000
2900
2800
2700

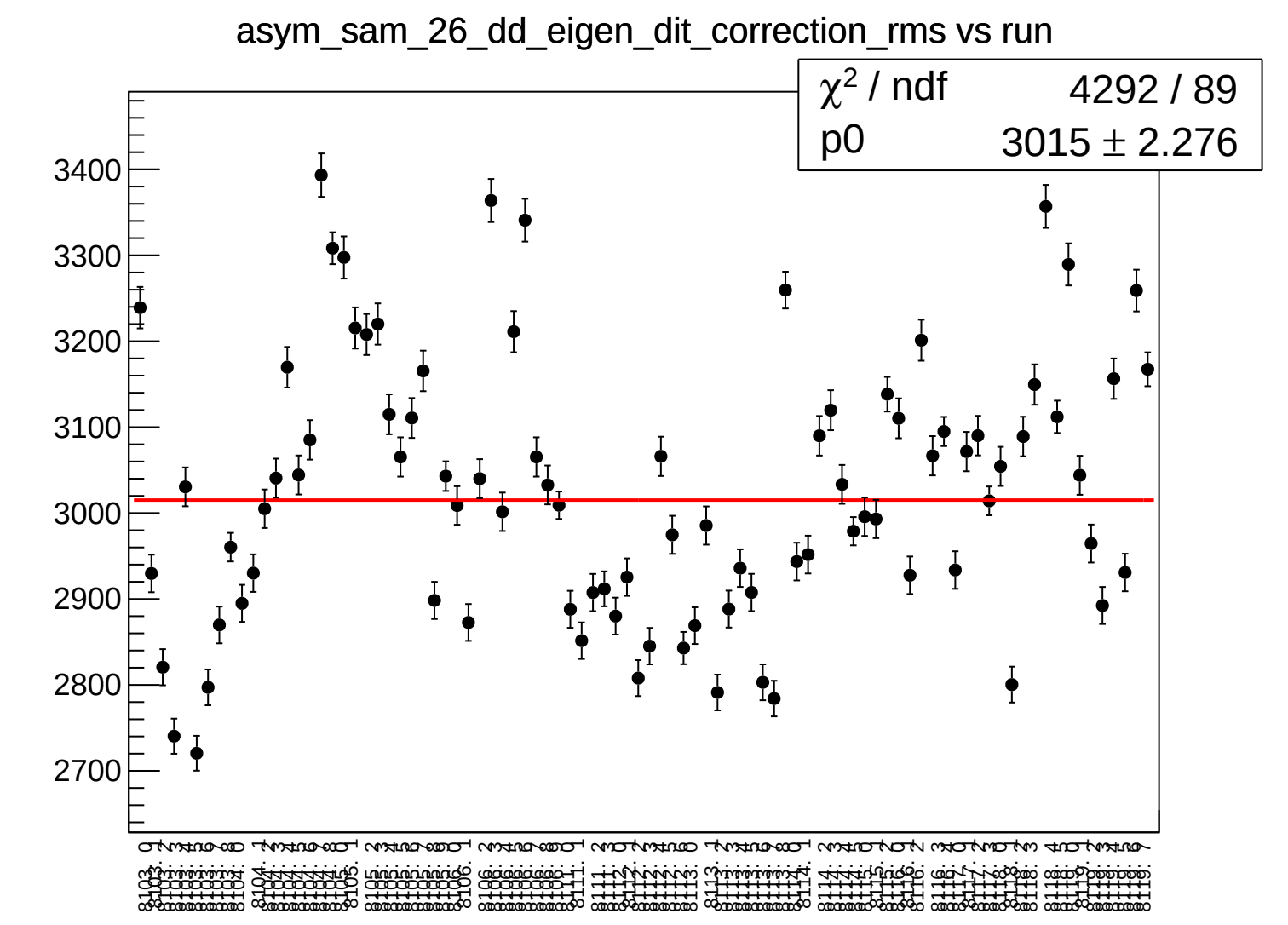

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 65 / 89
p0 −489.1± 205.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −30.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

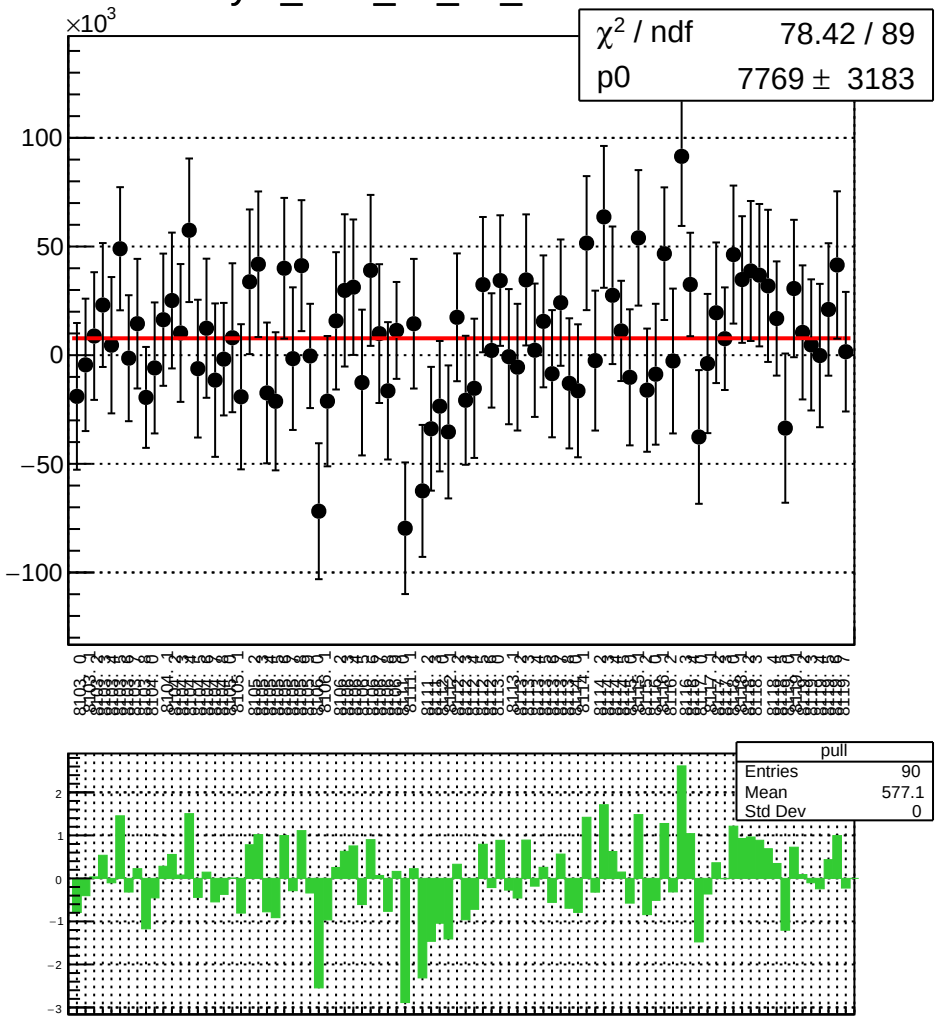

pull1D
Entries 90
Mean 0.0171
Std Dev 0.8497
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

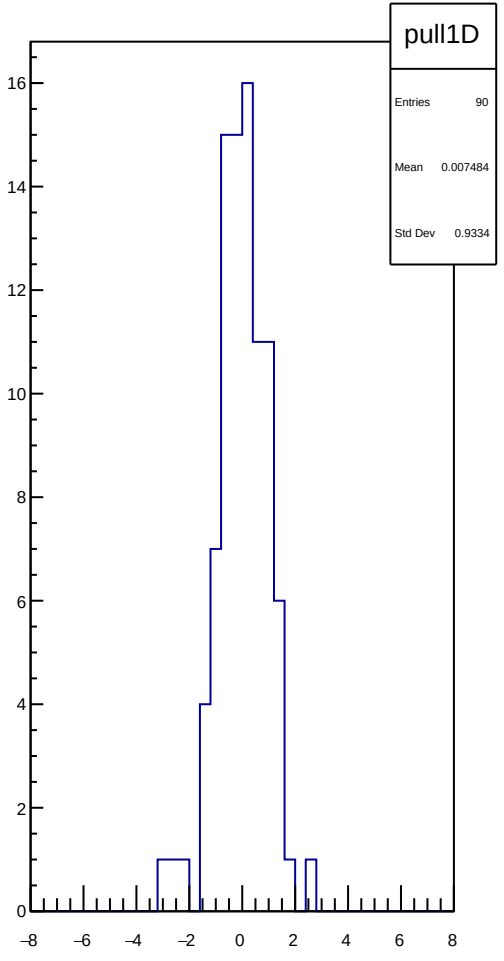

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 8332 / 89
p0 192.6 ± 0.1456
210
200
190
180
170

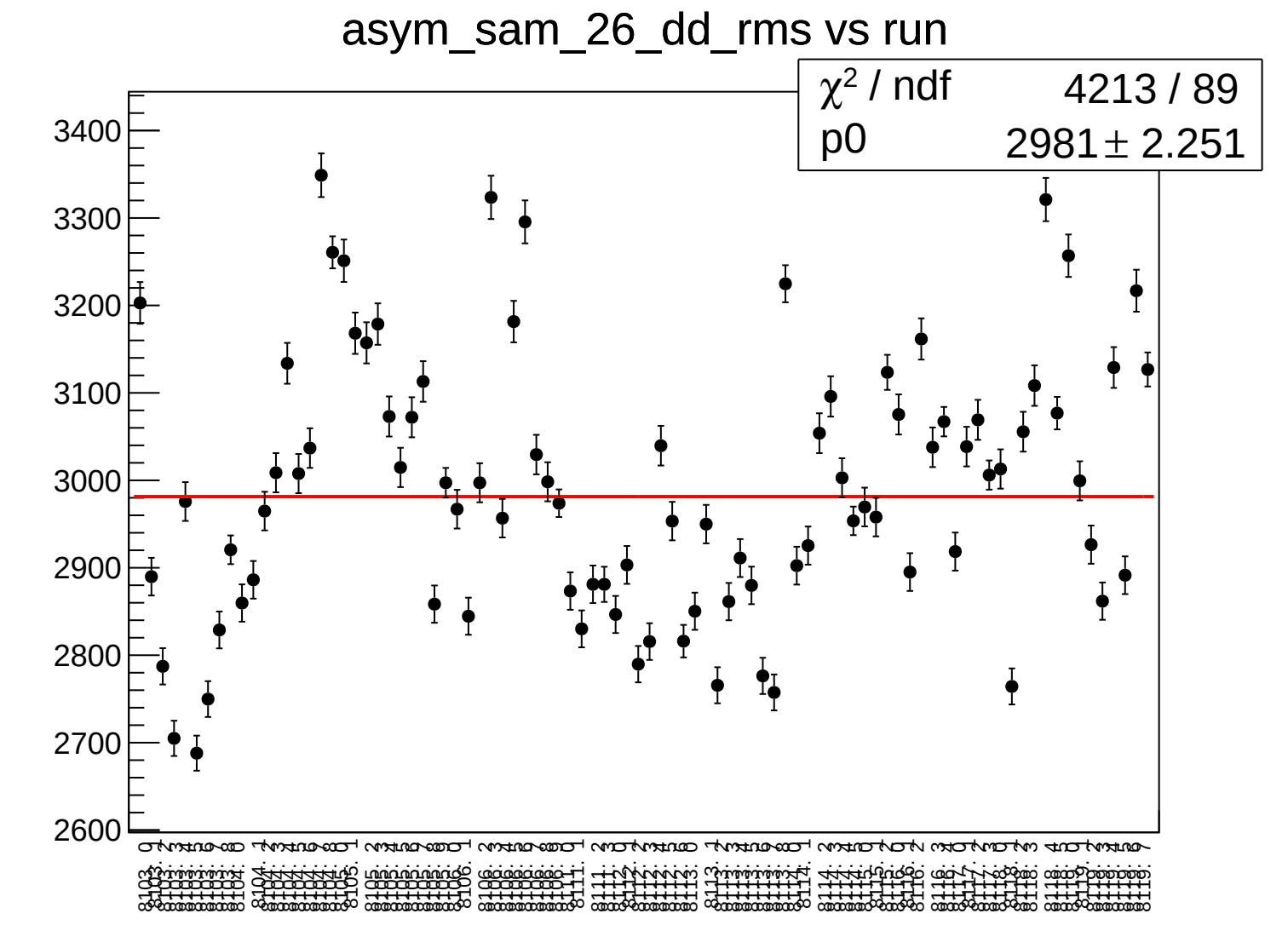

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.89 / 89
p0 −8251 ± 3219
100
50
0
−50
−100
pull
Entries 90
Mean 675.9
Std Dev 0
3
2
1
0
−1
−2

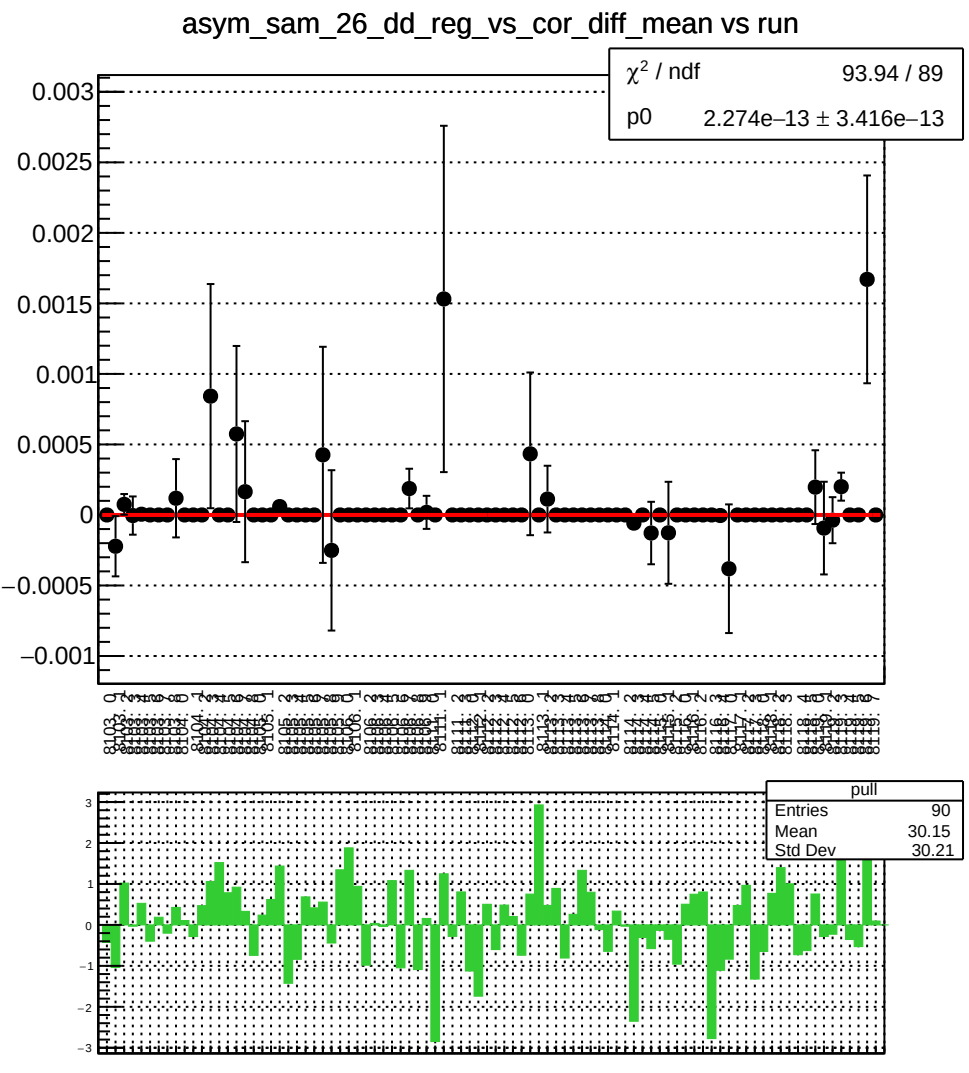

pull1D
Entries 90
Mean −0.006399
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

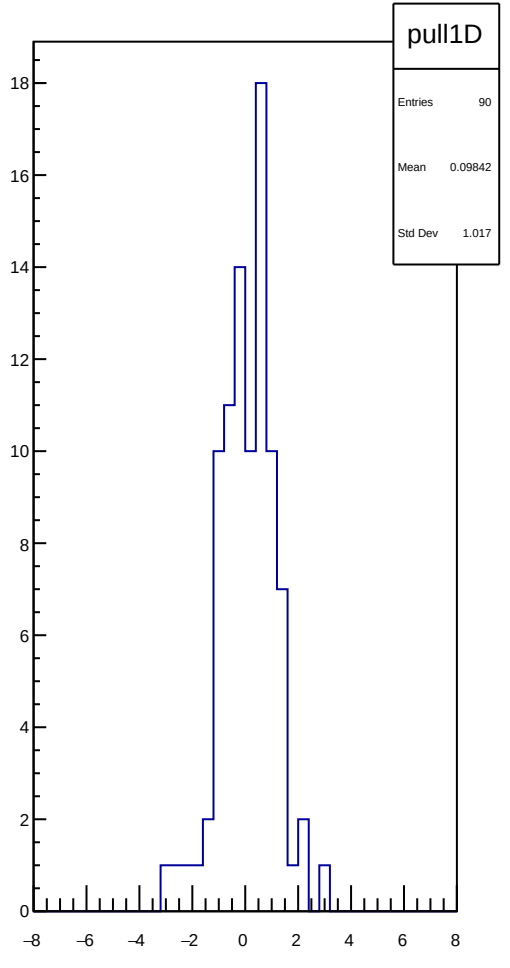

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4292 / 89
p0 3015 ± 2.276
3400
3300
3200
3100
3000
2900
2800
2700

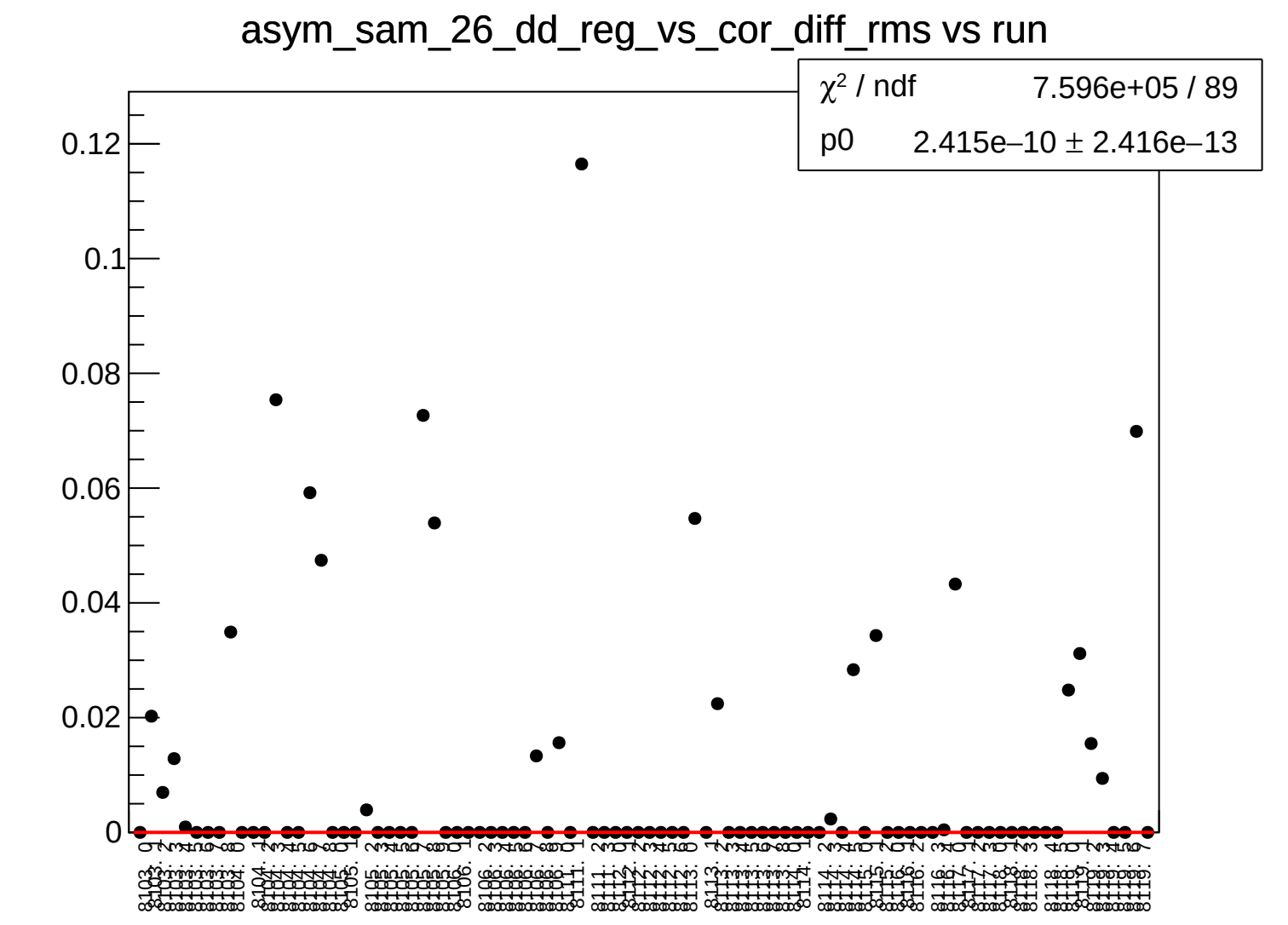

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 78.42 / 89
p0 7769 ± 3183
100
50
0
−50
−100
pull
Entries 90
Mean 577.1
Std Dev 0
2
1
0
−1
−2
−3

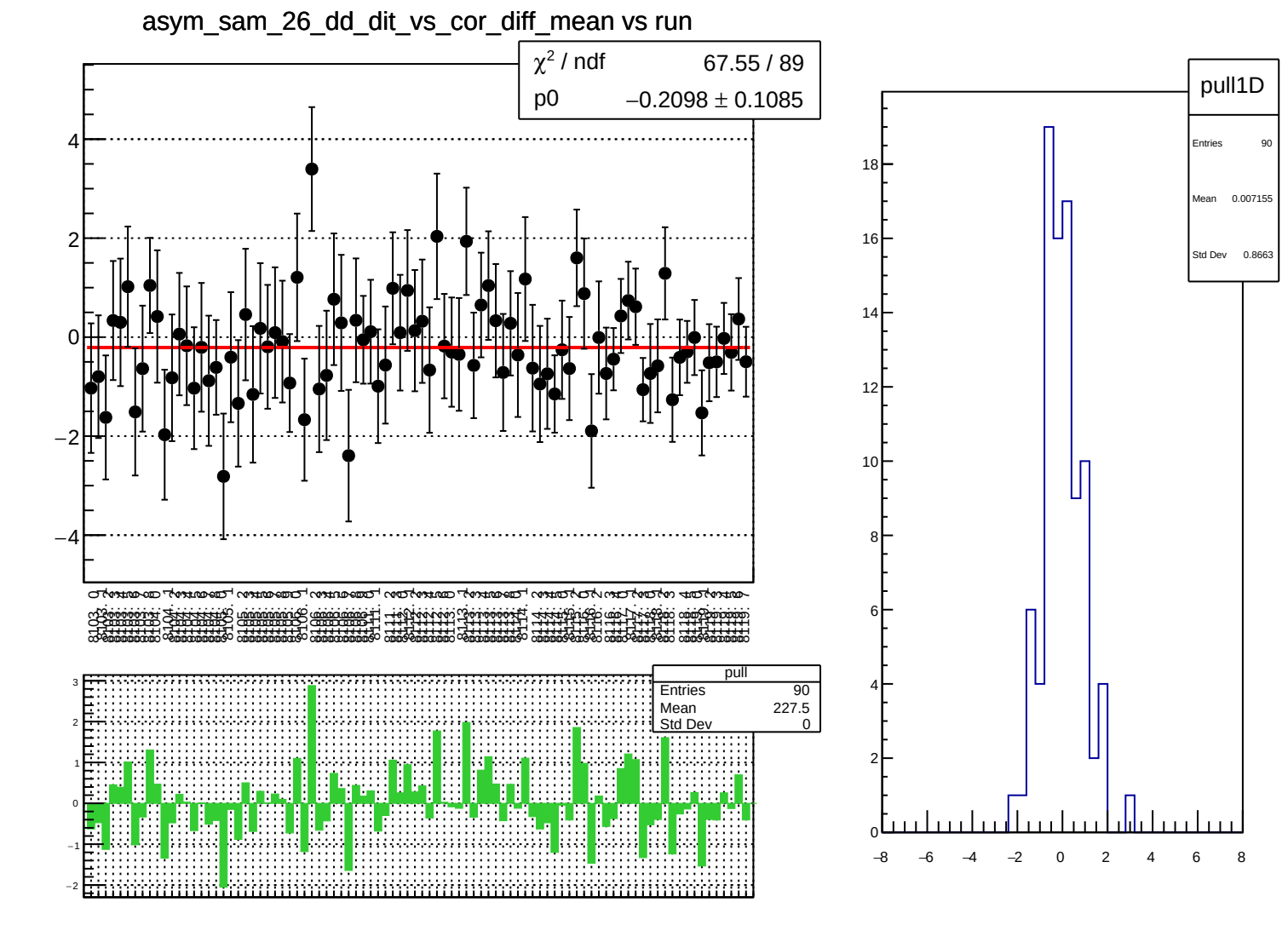

pull1D
Entries 90
Mean 0.007484
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

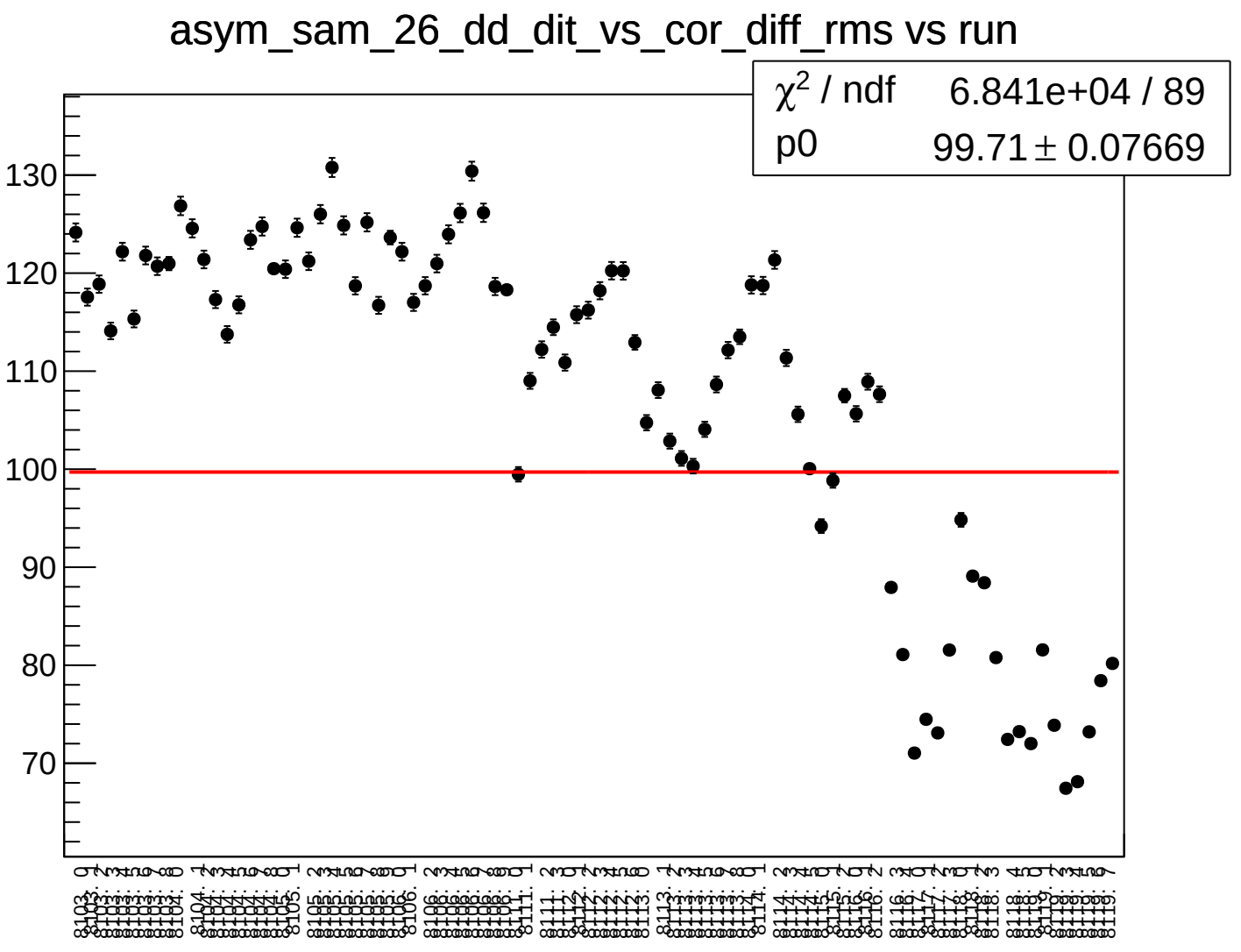

asym_sam_26_dd_rms vs run
χ² / ndf 4213 / 89
p0 2981 ± 2.251
3400
3300
3200
3100
3000
2900
2800
2700
2600

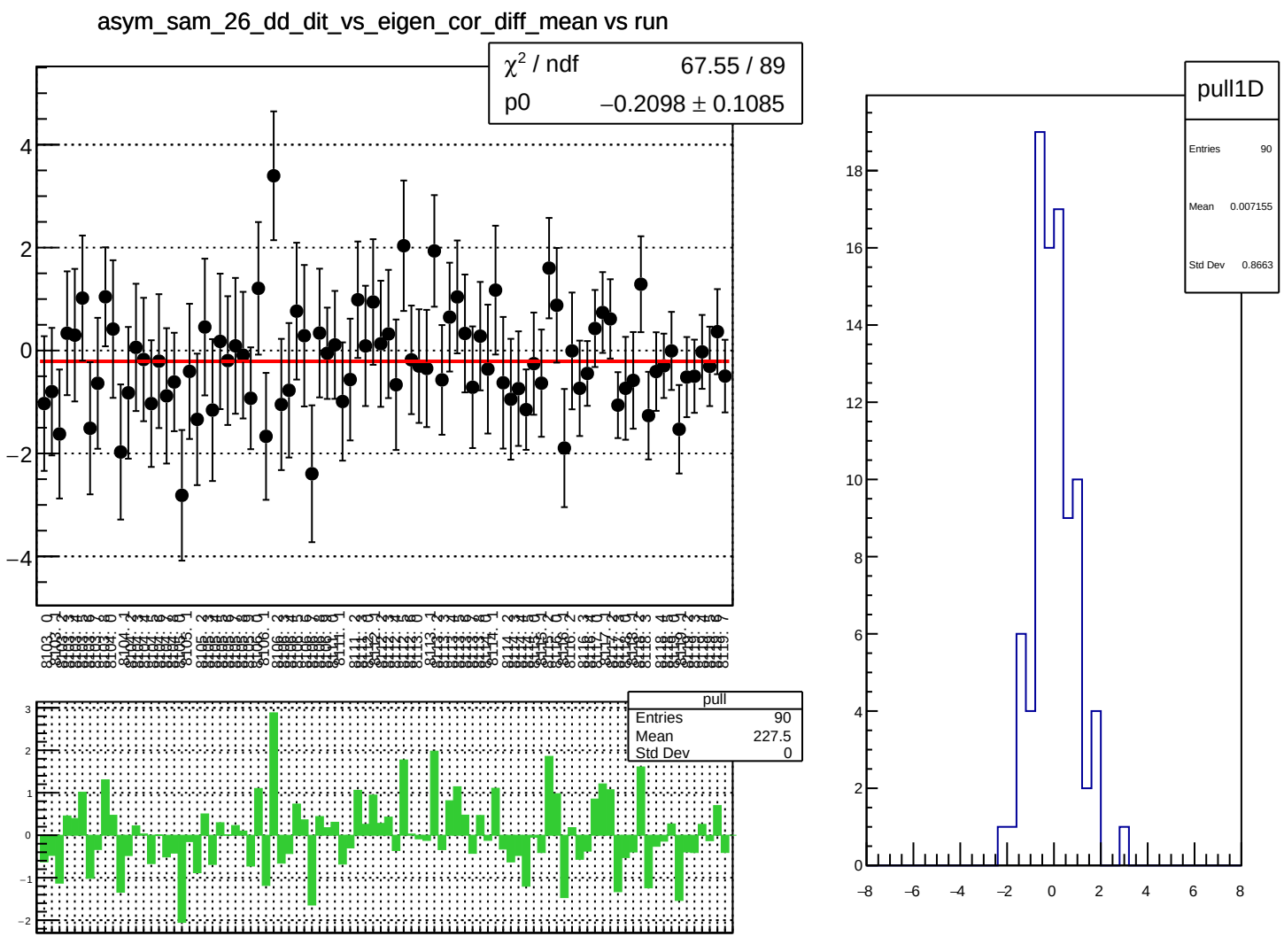

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.94 / 89
p0 2.274e−13 ± 3.416e−13
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 30.15
Std Dev 30.21
3
2
1
0
−1
−2
−3

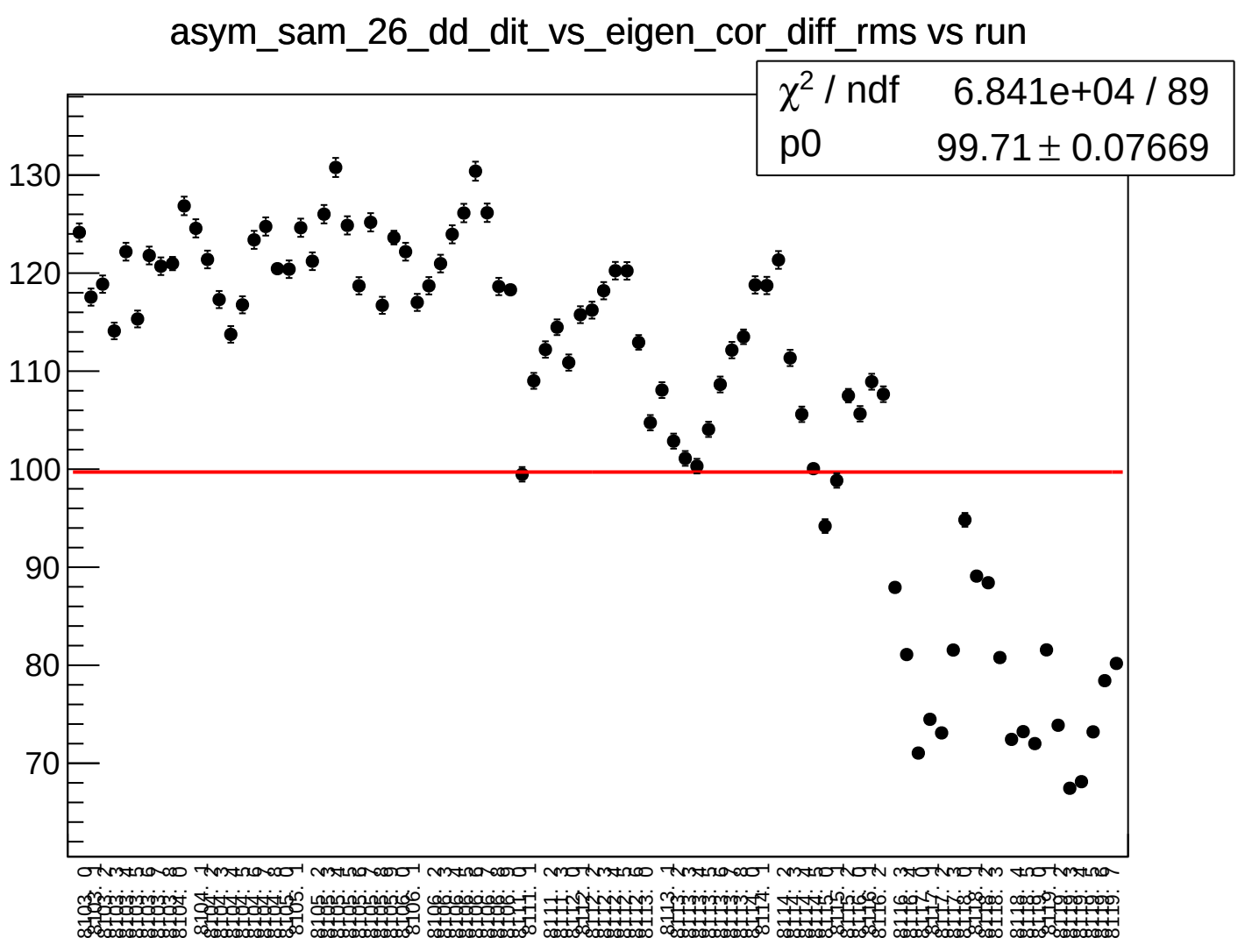

pull1D
Entries 90
Mean 0.09842
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

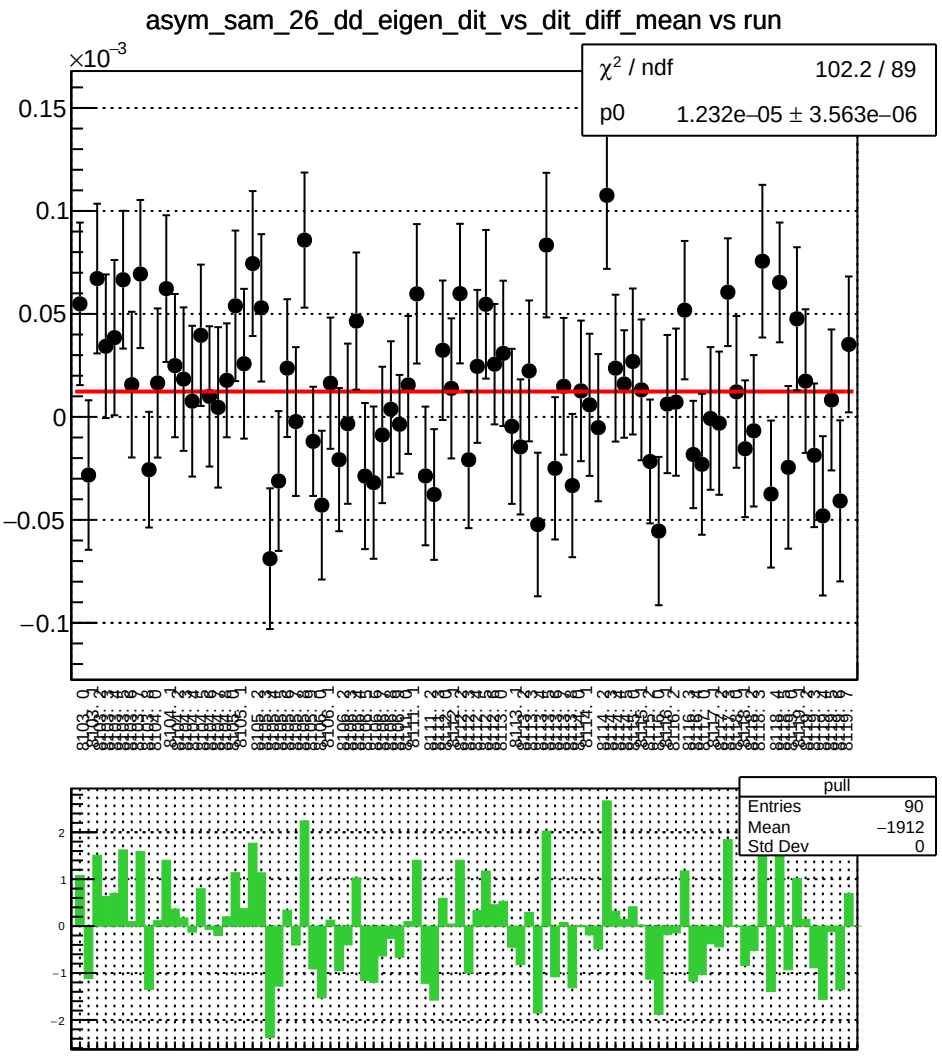

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.596e+05 / 89
p0 2.415e−10 ± 2.416e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

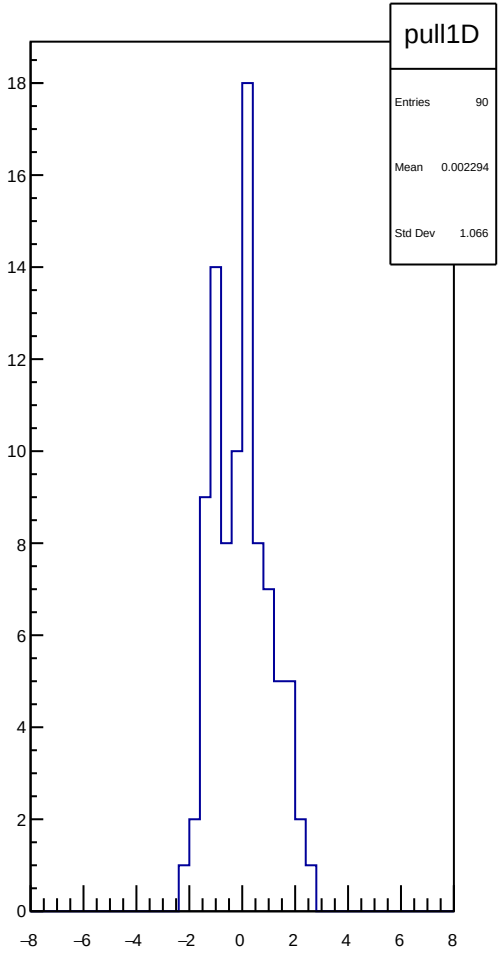

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.55 / 89
p0 −0.2098 ± 0.1085
pull
Entries 90
Mean 227.5
Std Dev 0
pull1D
Entries 90
Mean 0.007155
Std Dev 0.8663

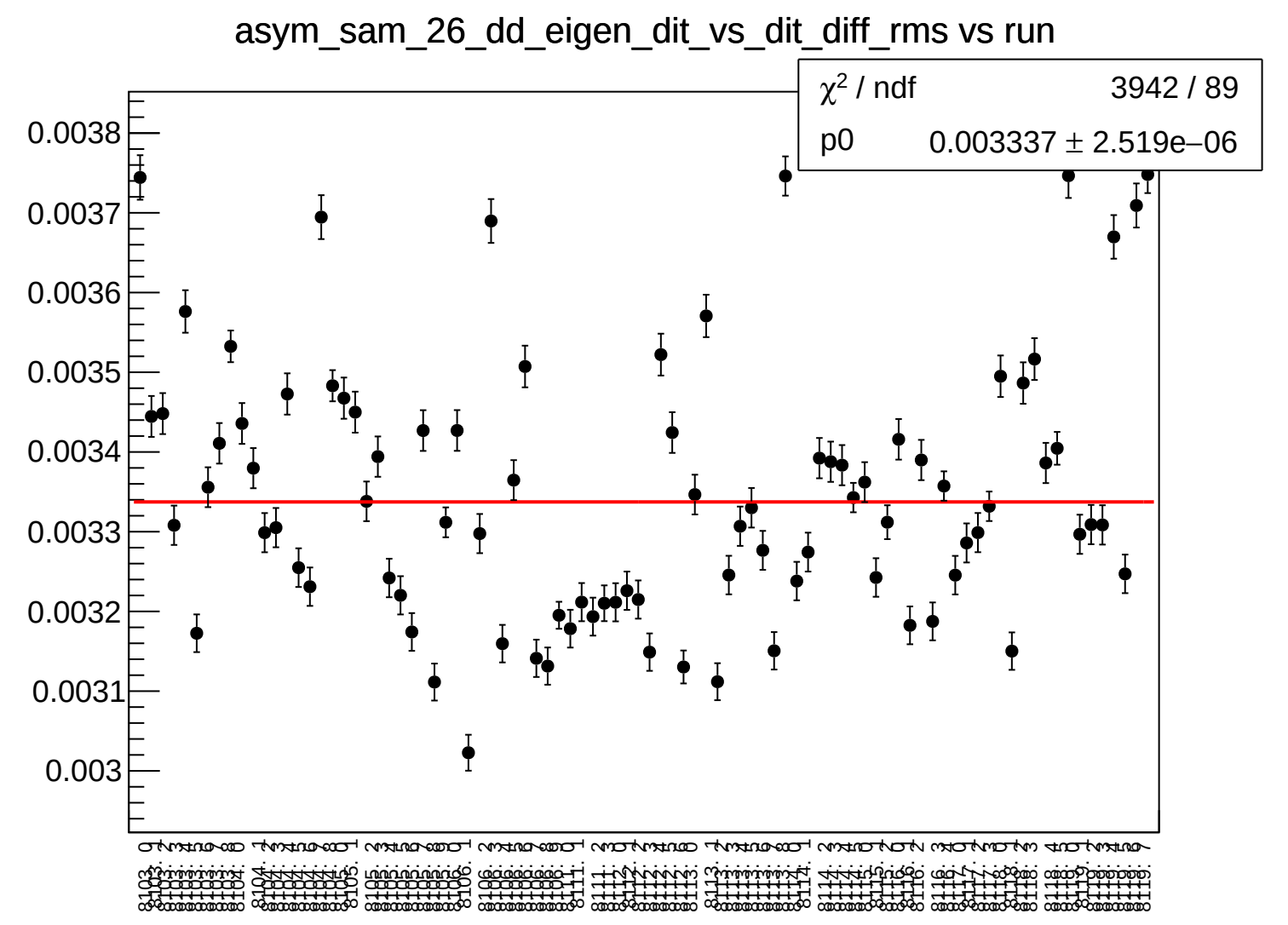

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.841e+04 / 89
p0 99.71 ± 0.07669
130
120
110
100
90
80
70

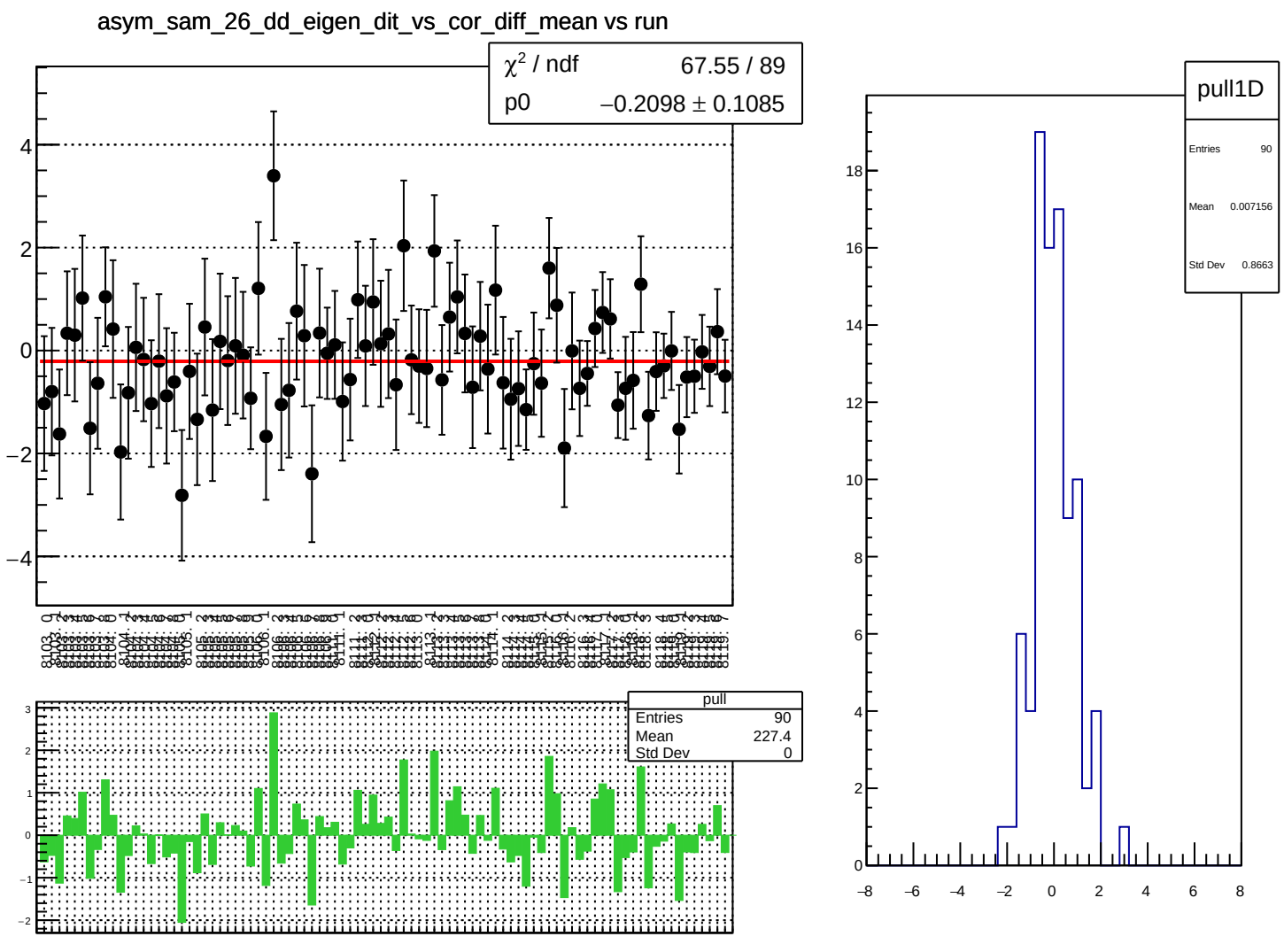

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.55 / 89
p0 −0.2098 ± 0.1085
pull
Entries 90
Mean 227.5
Std Dev 0
pull1D
Entries 90
Mean 0.007155
Std Dev 0.8663

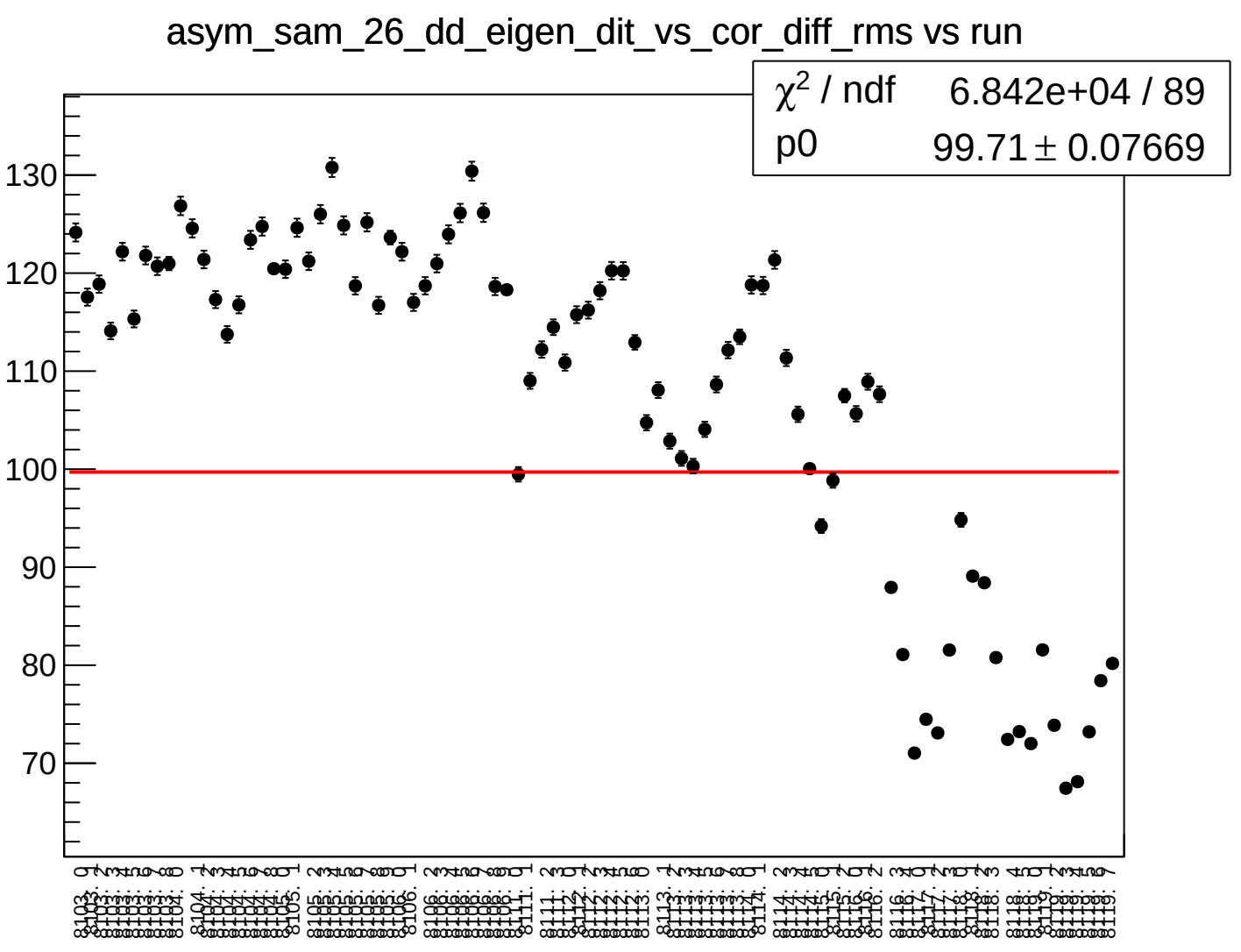

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.841e+04 / 89
p0 99.71 ± 0.07669
130
120
110
100
90
80
70

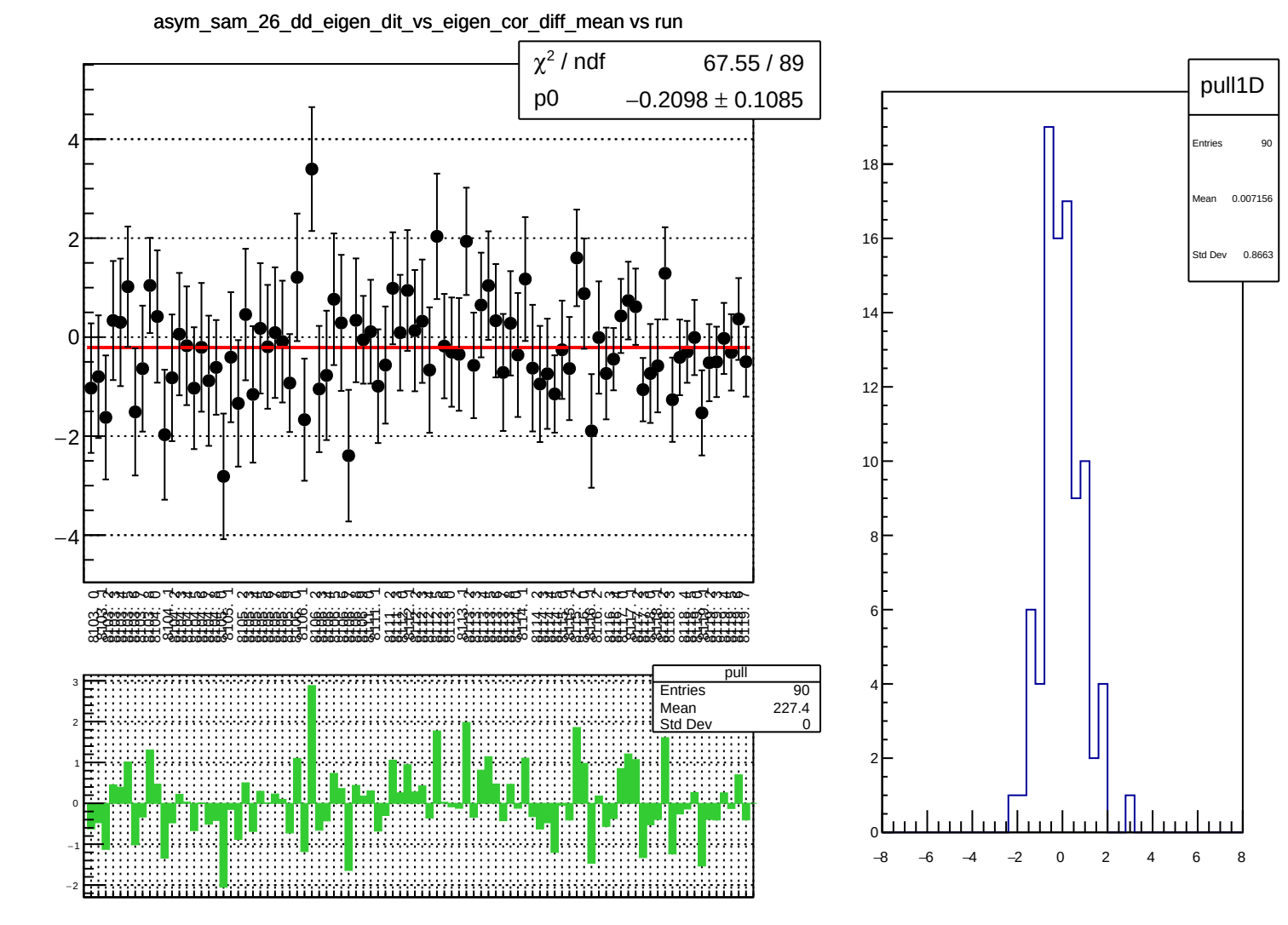

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.2 / 89
p0 1.232e−05 ± 3.563e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −1912
Std Dev 0
2
1
0
−1
−2

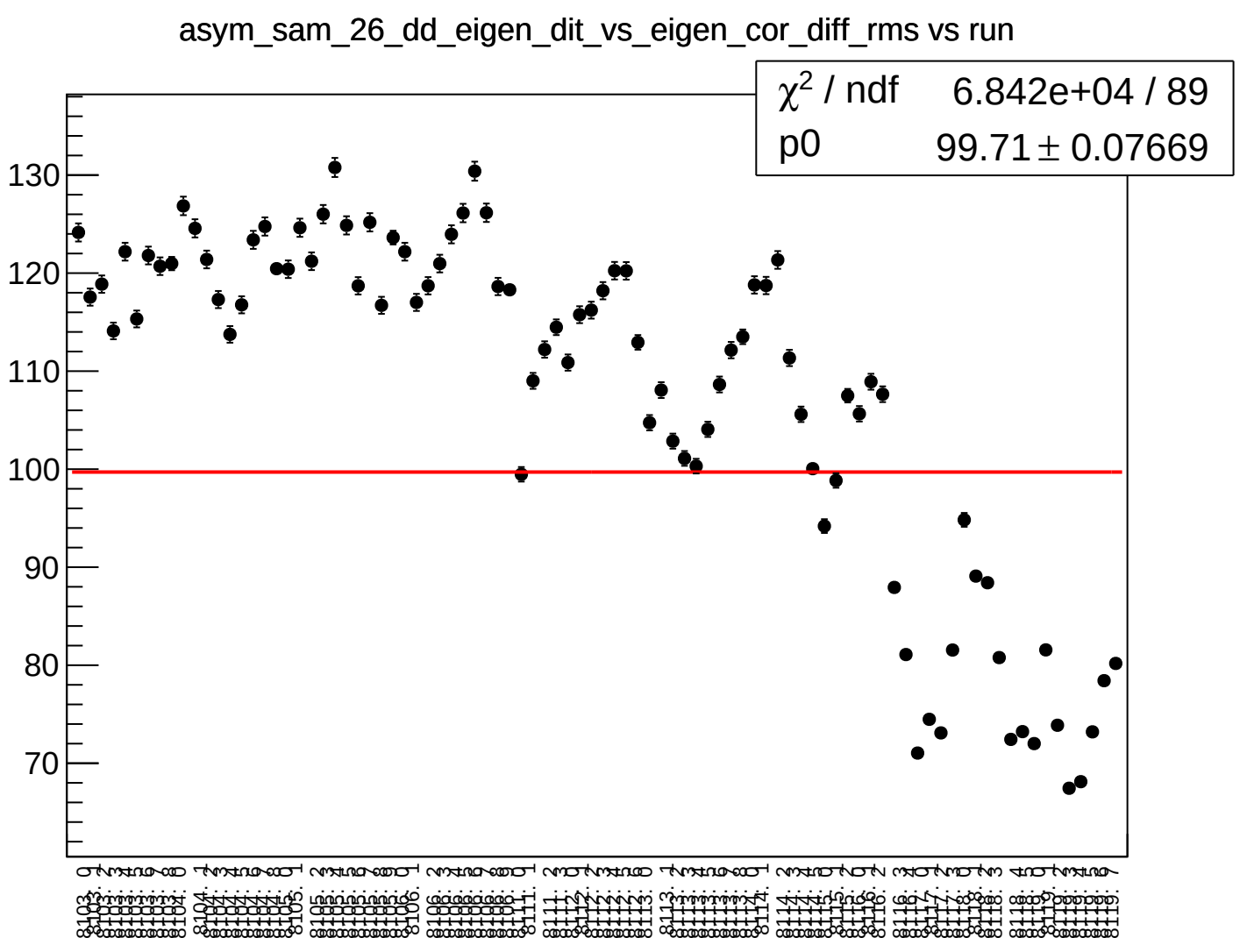

pull1D
Entries 90
Mean 0.002294
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

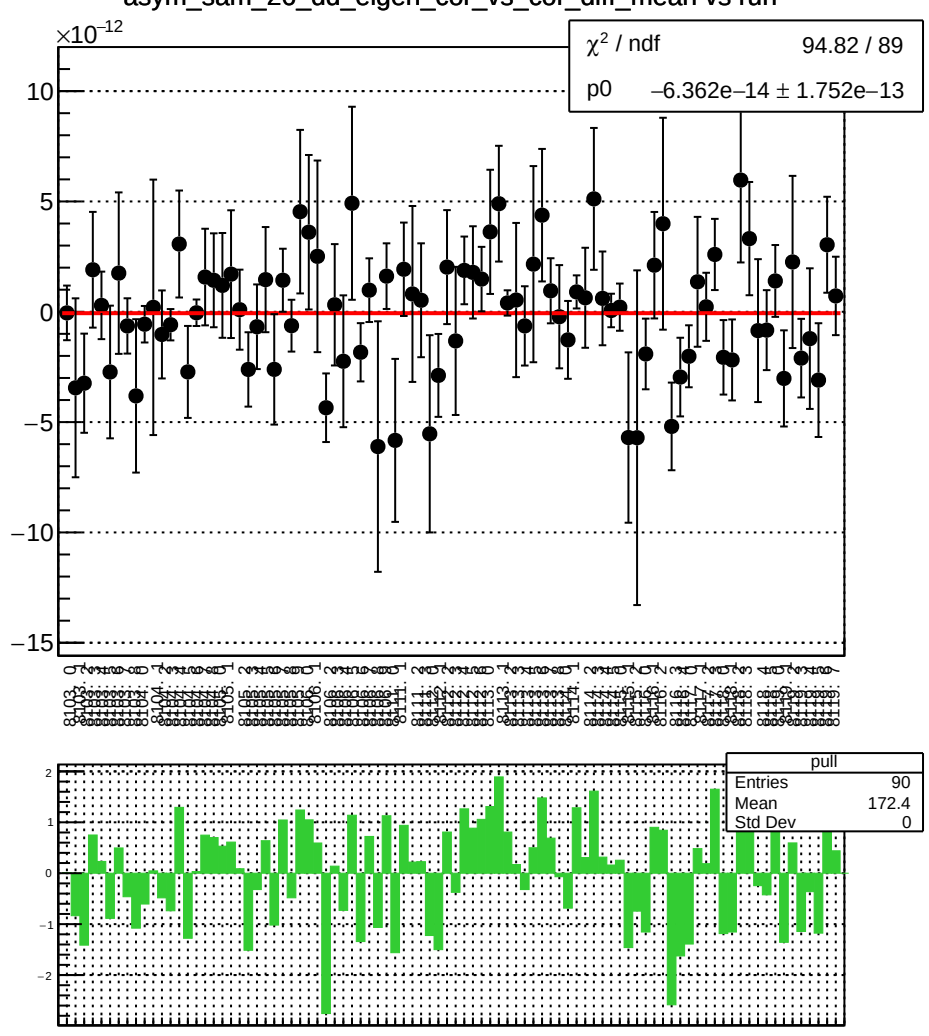

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3942 / 89
p0 0.003337 ± 2.519e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

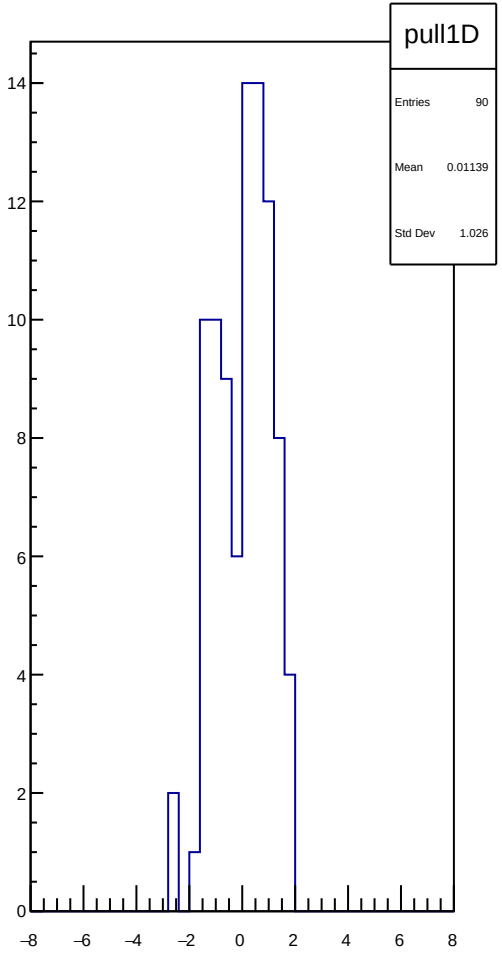

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.55 / 89
p0 −0.2098 ± 0.1085
pull
Entries 90
Mean 227.4
Std Dev 0
pull1D
Entries 90
Mean 0.007156
Std Dev 0.8663

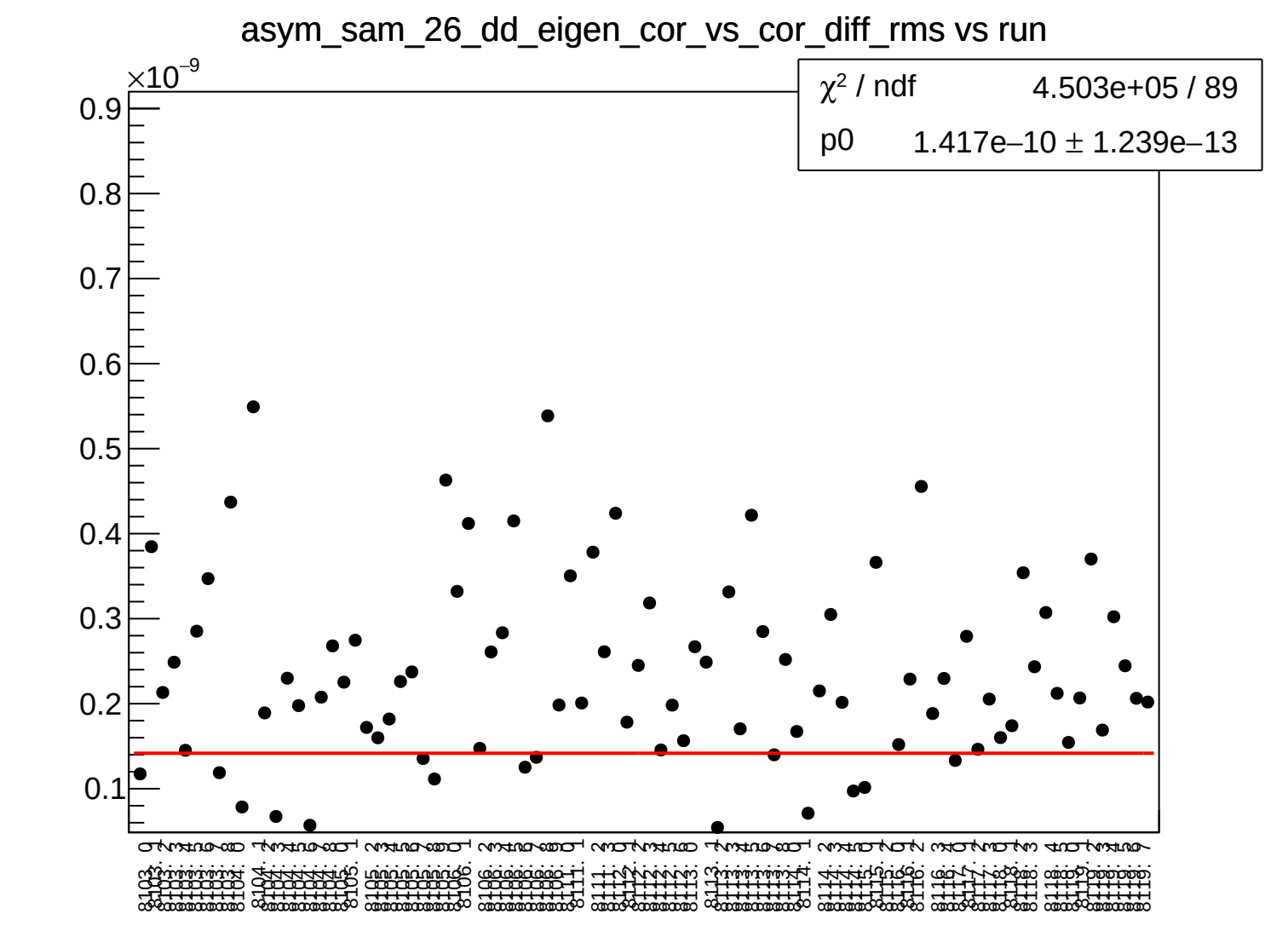

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.842e+04 / 89
p0 99.71 ± 0.07669
130
120
110
100
90
80
70

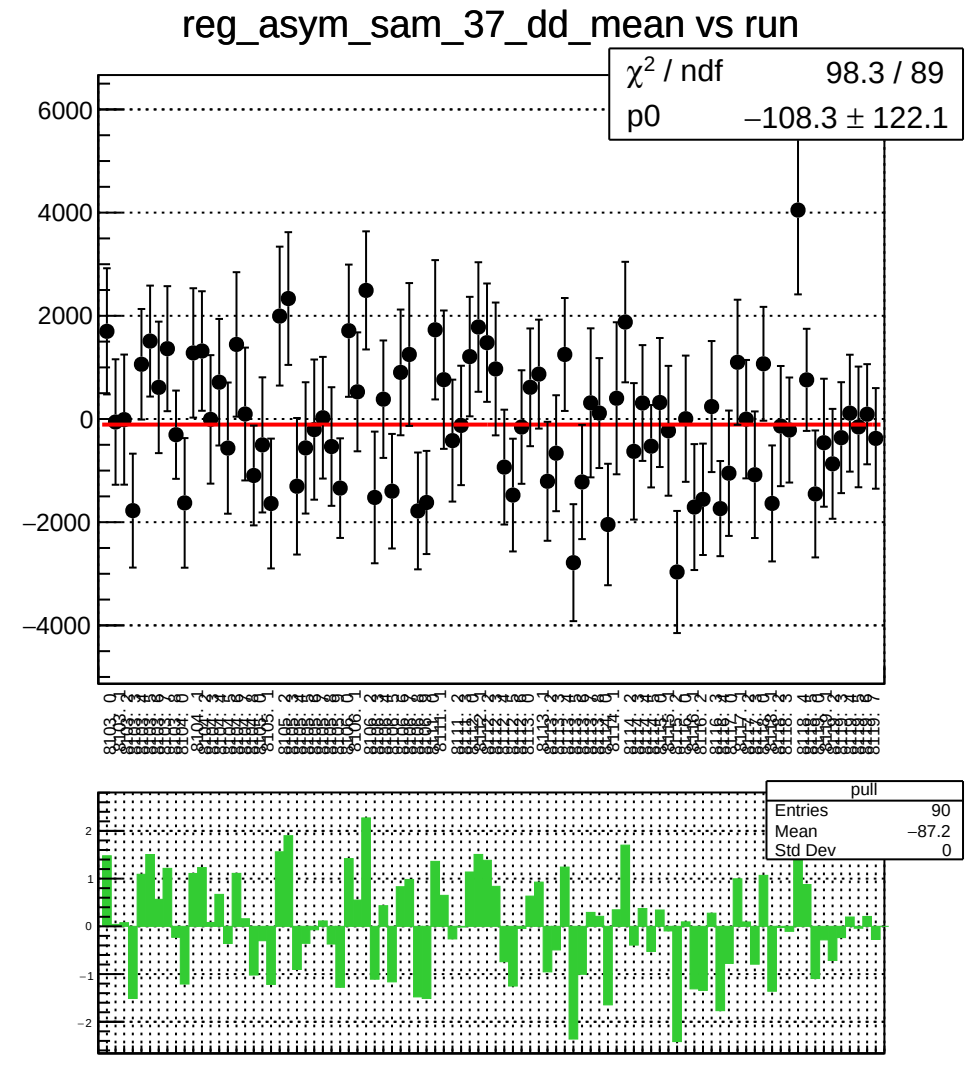

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.55 / 89
p0 −0.2098 ± 0.1085
pull
Entries 90
Mean 227.4
Std Dev 0
pull1D
Entries 90
Mean 0.007156
Std Dev 0.8663

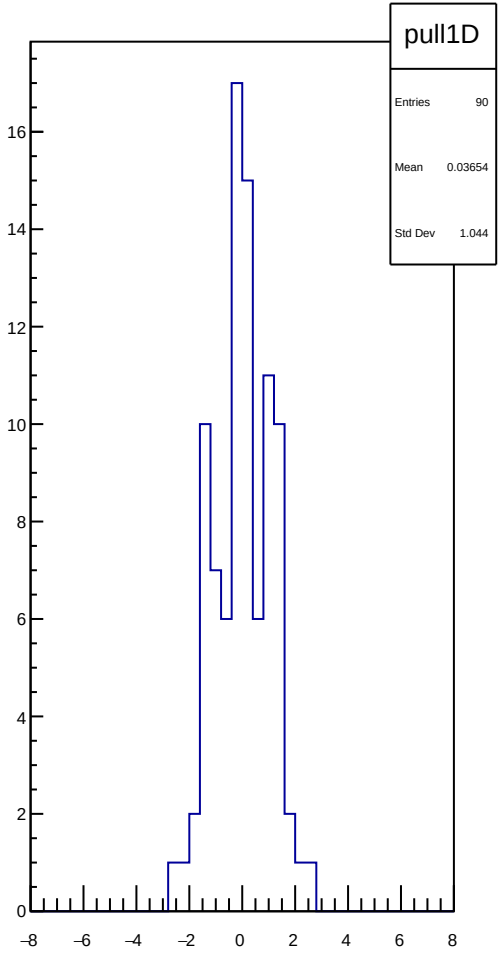

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.842e+04 / 89
p0 99.71 ± 0.07669
130
120
110
100
90
80
70

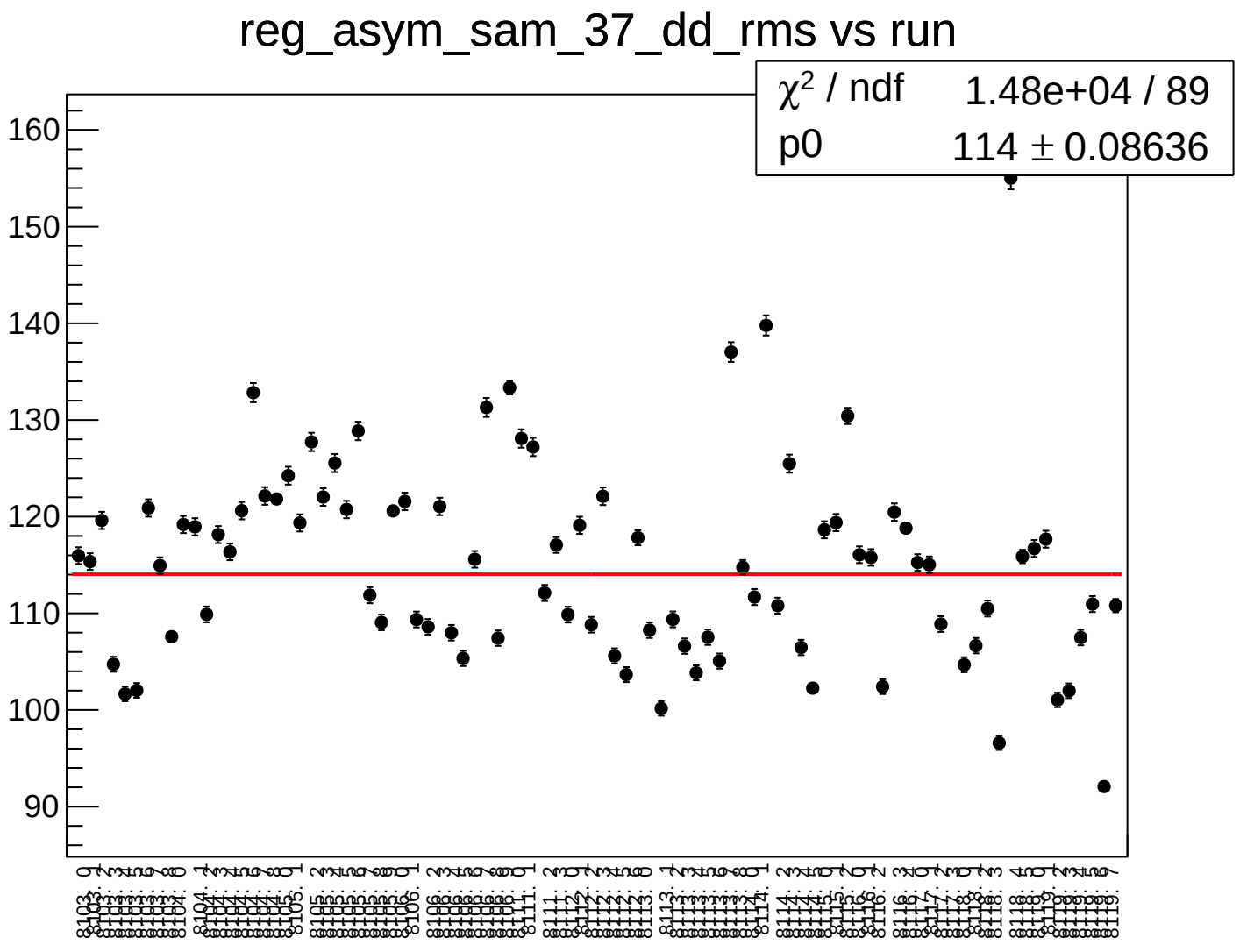

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.82 / 89
p0 −6.362e−14 ± 1.752e−13
pull
Entries 90
Mean 172.4
Std Dev 0

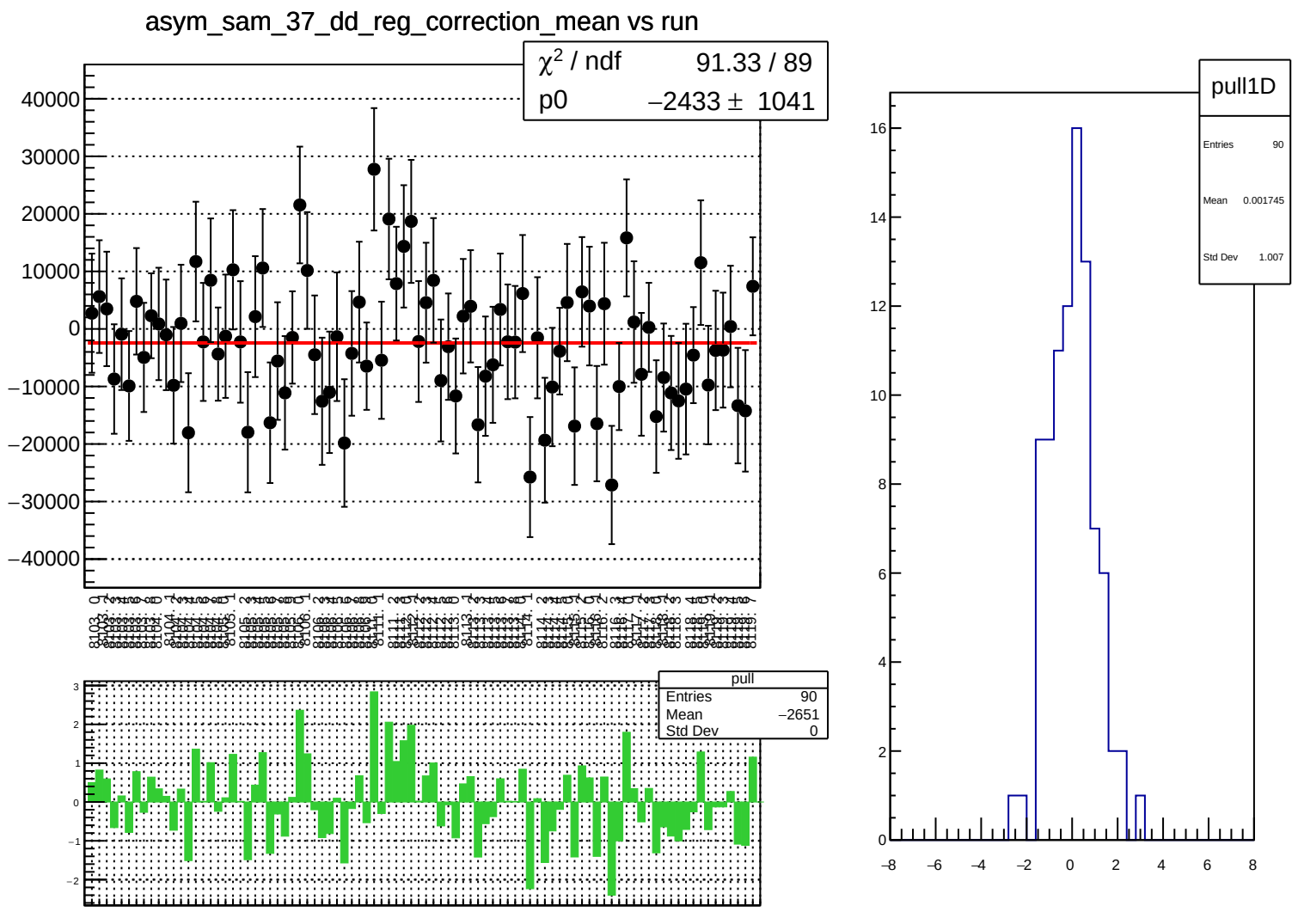

pull1D
Entries 90
Mean 0.01139
Std Dev 1.026

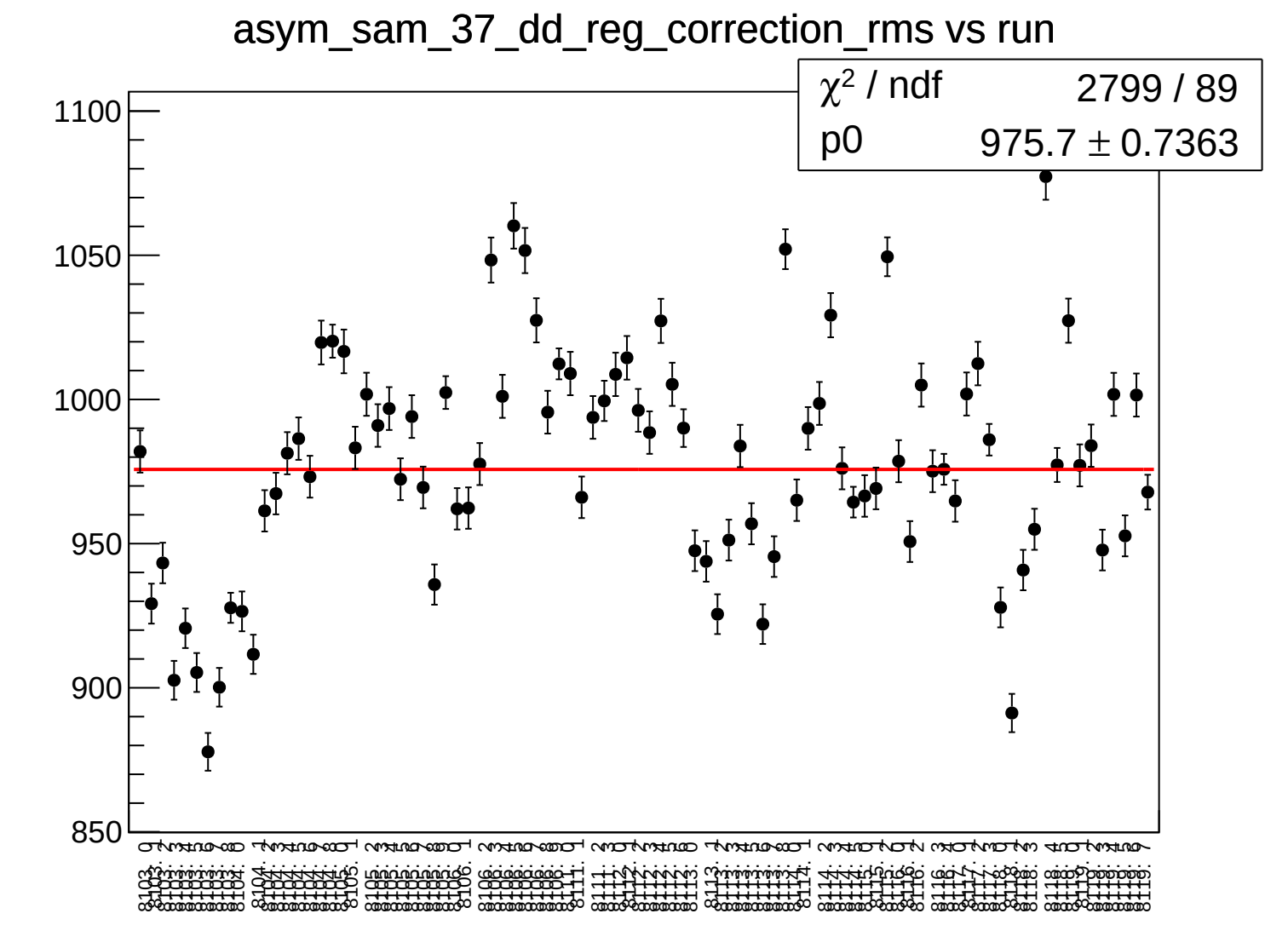

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.503e+05 / 89
p0 1.417e−10 ± 1.239e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

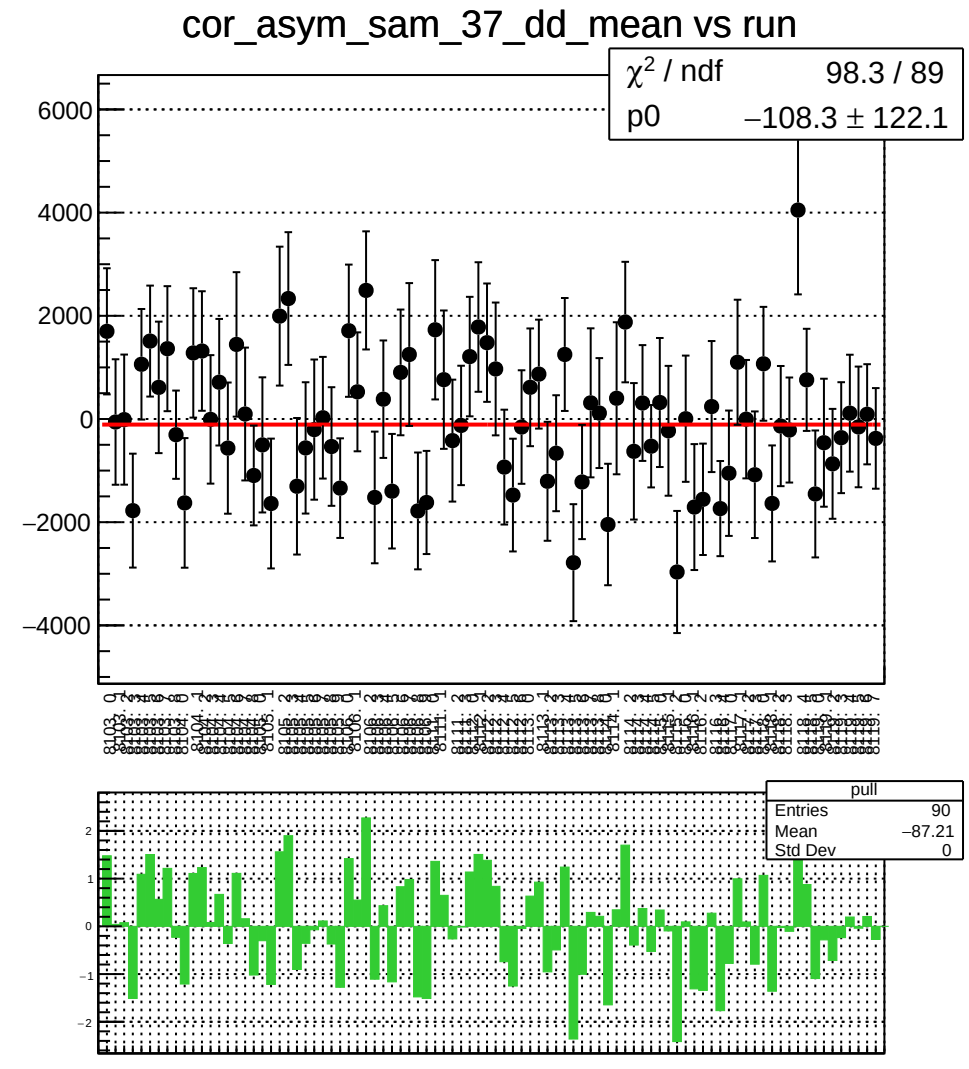

reg_asym_sam_37_dd_mean vs run
χ² / ndf 98.3 / 89
p0 −108.3 ± 122.1
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −87.2
Std Dev 0
2
1
0
−1
−2

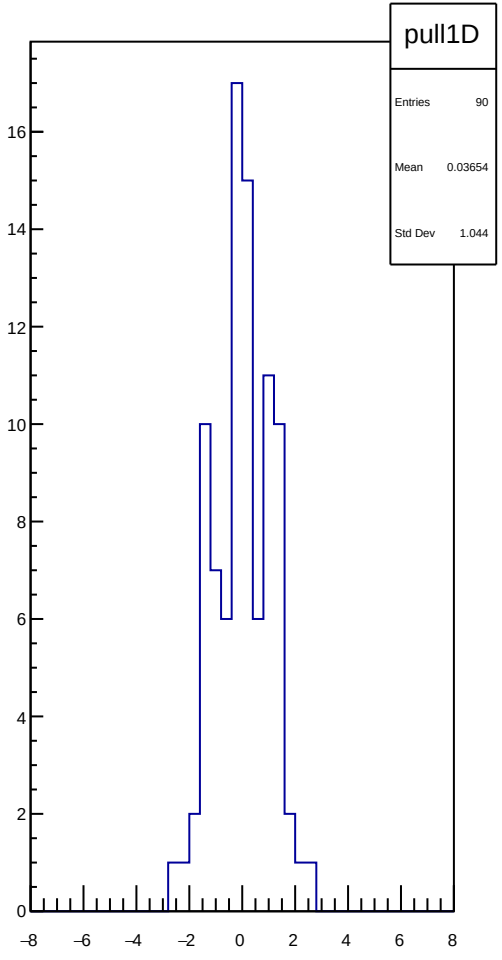

pull1D
Entries 90
Mean 0.03654
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

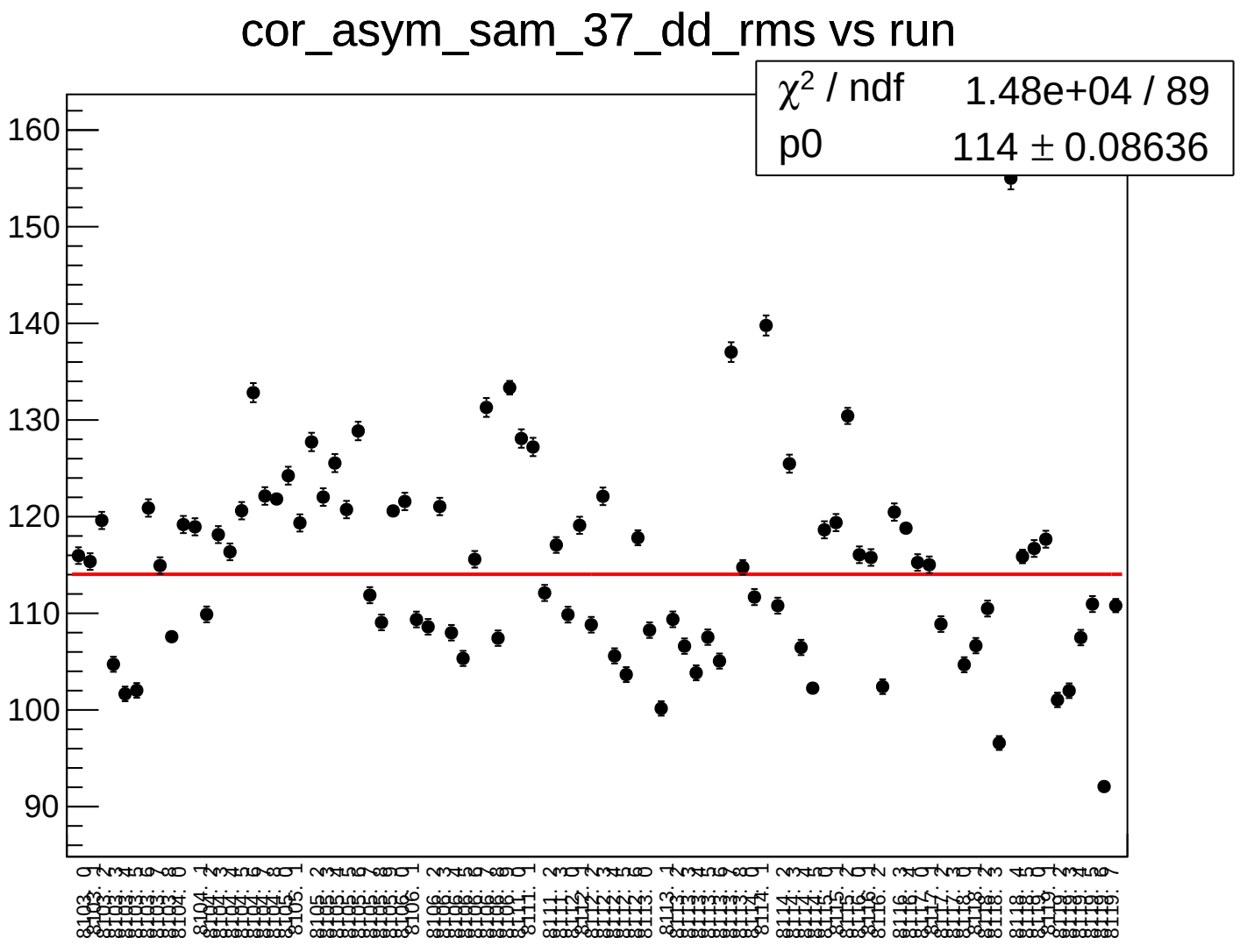

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.48e+04 / 89
p0 114 ± 0.08636
160
150
140
130
120
110
100
90

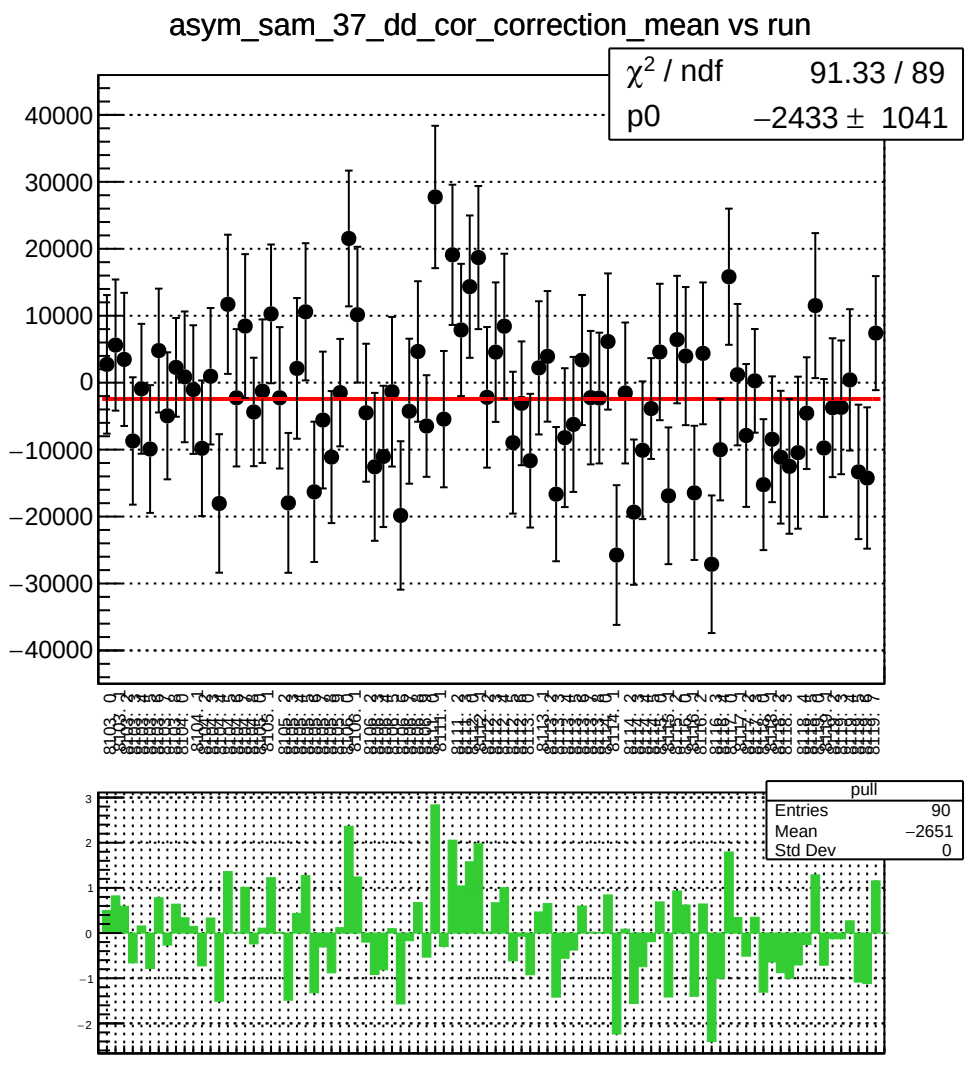

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 91.33 / 89
p0 −2433 ± 1041
pull
Entries 90
Mean −2651
Std Dev 0
pull1D
Entries 90
Mean 0.001745
Std Dev 1.007

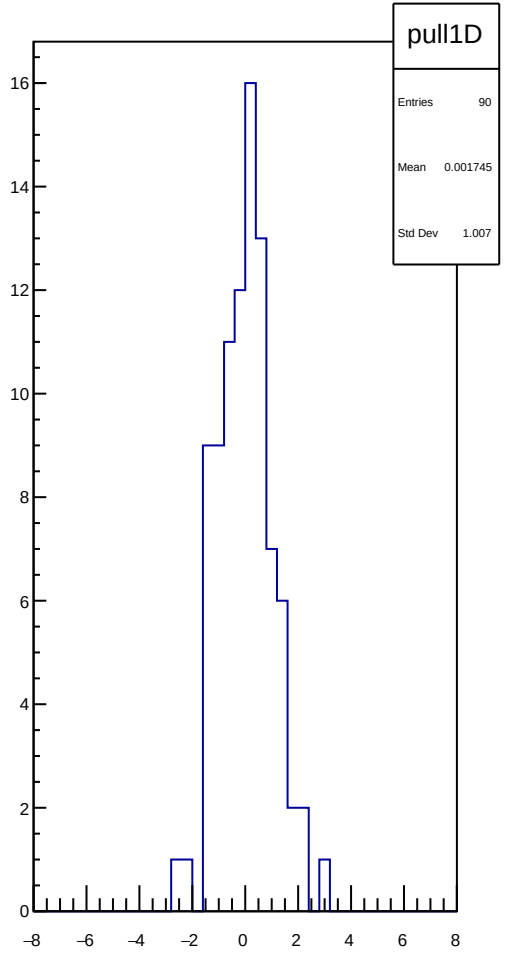

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2799 / 89
p0 975.7 ± 0.7363
1100
1050
1000
950
900
850

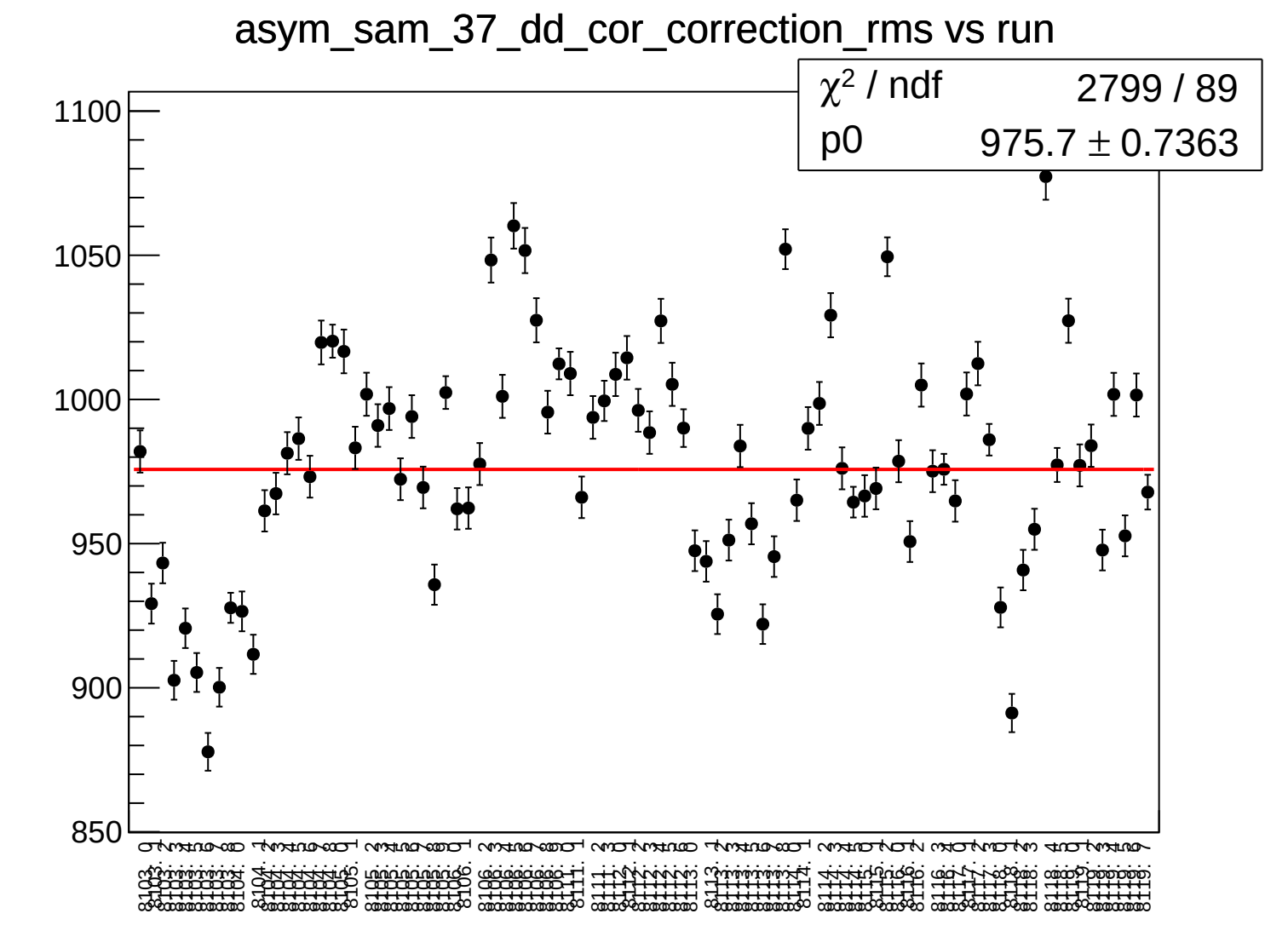

cor_asym_sam_37_dd_mean vs run
χ² / ndf 98.3 / 89
p0 −108.3 ± 122.1
pull
Entries 90
Mean −87.21
Std Dev 0

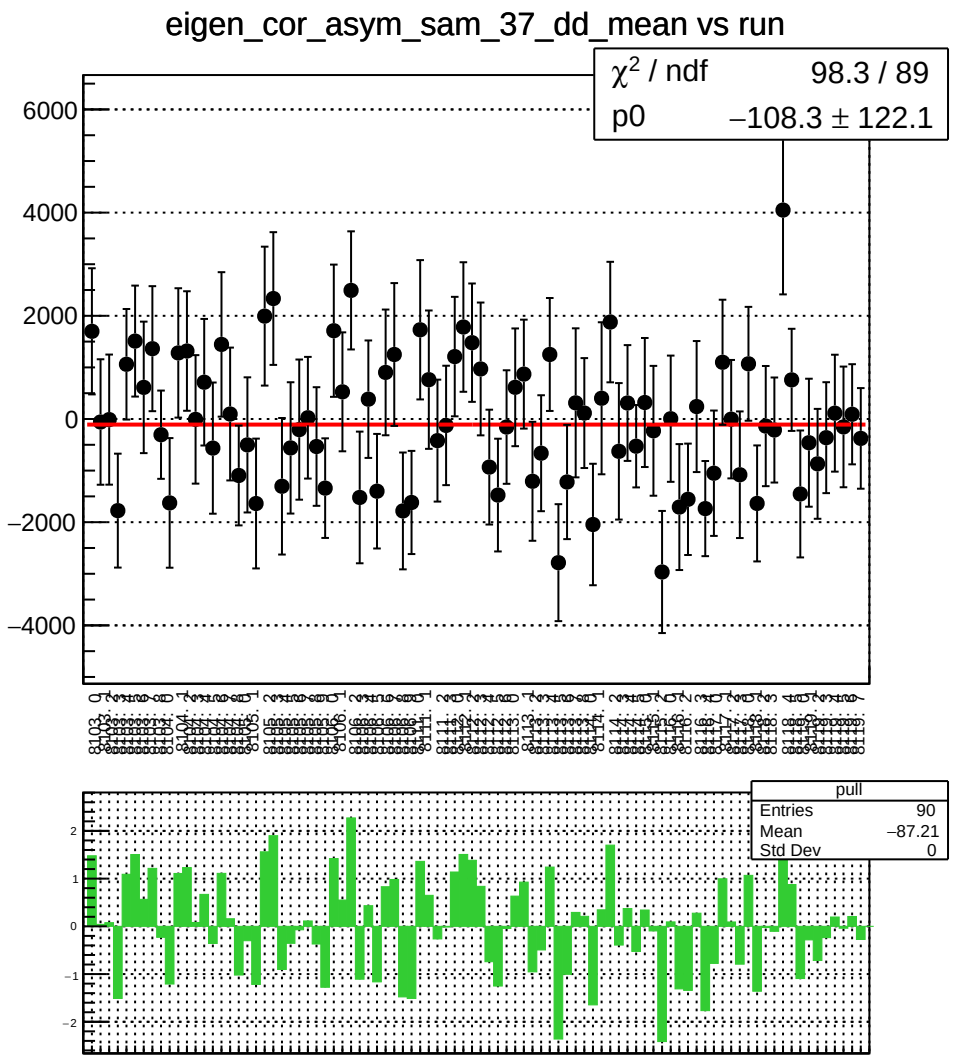

pull1D
Entries 90
Mean 0.03654
Std Dev 1.044

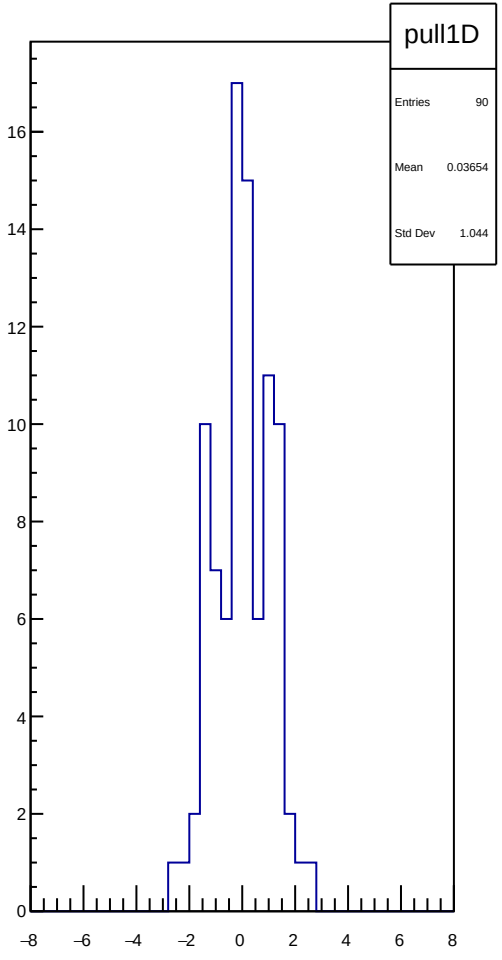

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.48e+04 / 89
p0 114 ± 0.08636
160
150
140
130
120
110
100
90

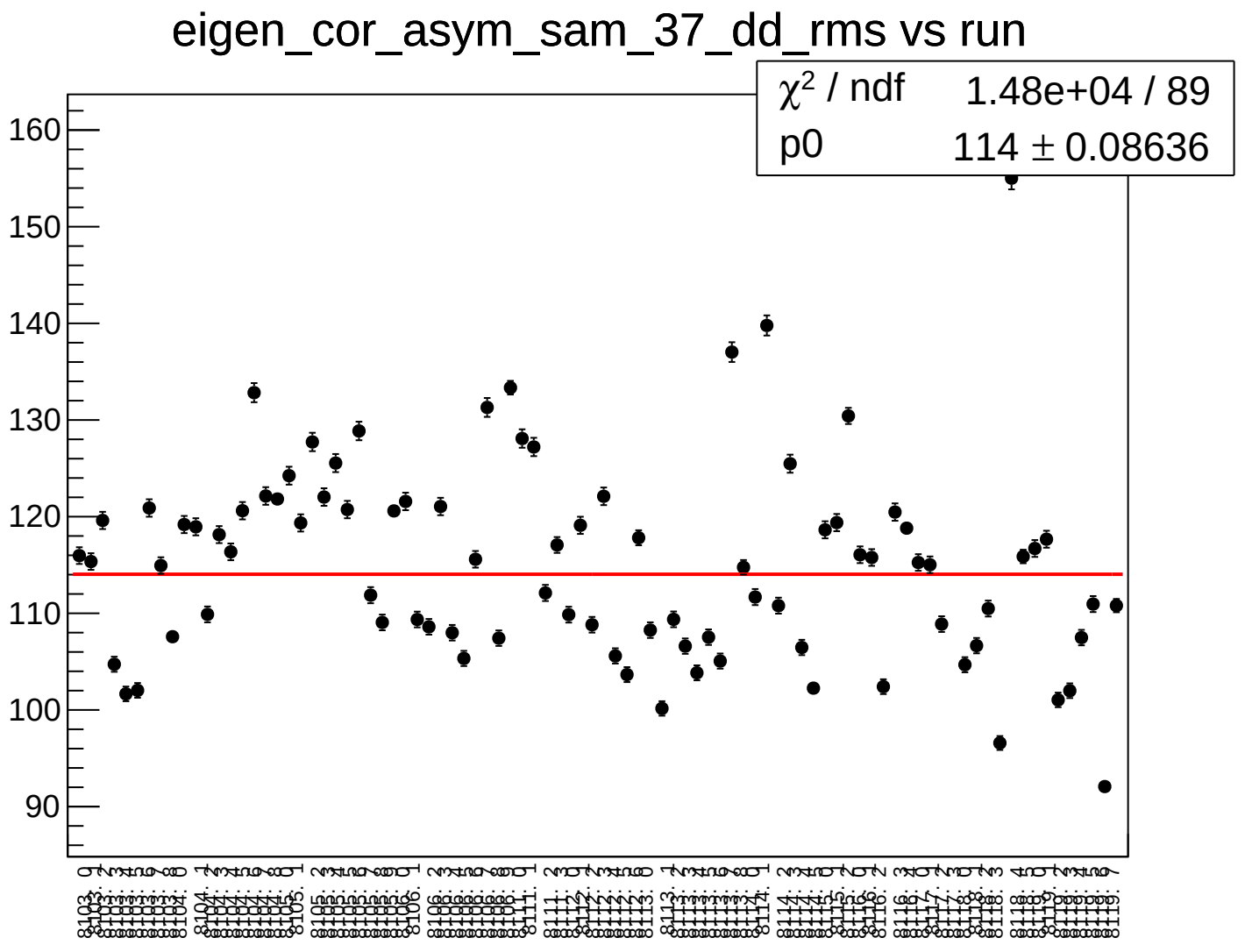

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 91.33 / 89
p0 −2433 ± 1041
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −2651
Std Dev 0
3
2
1
0
−1
−2

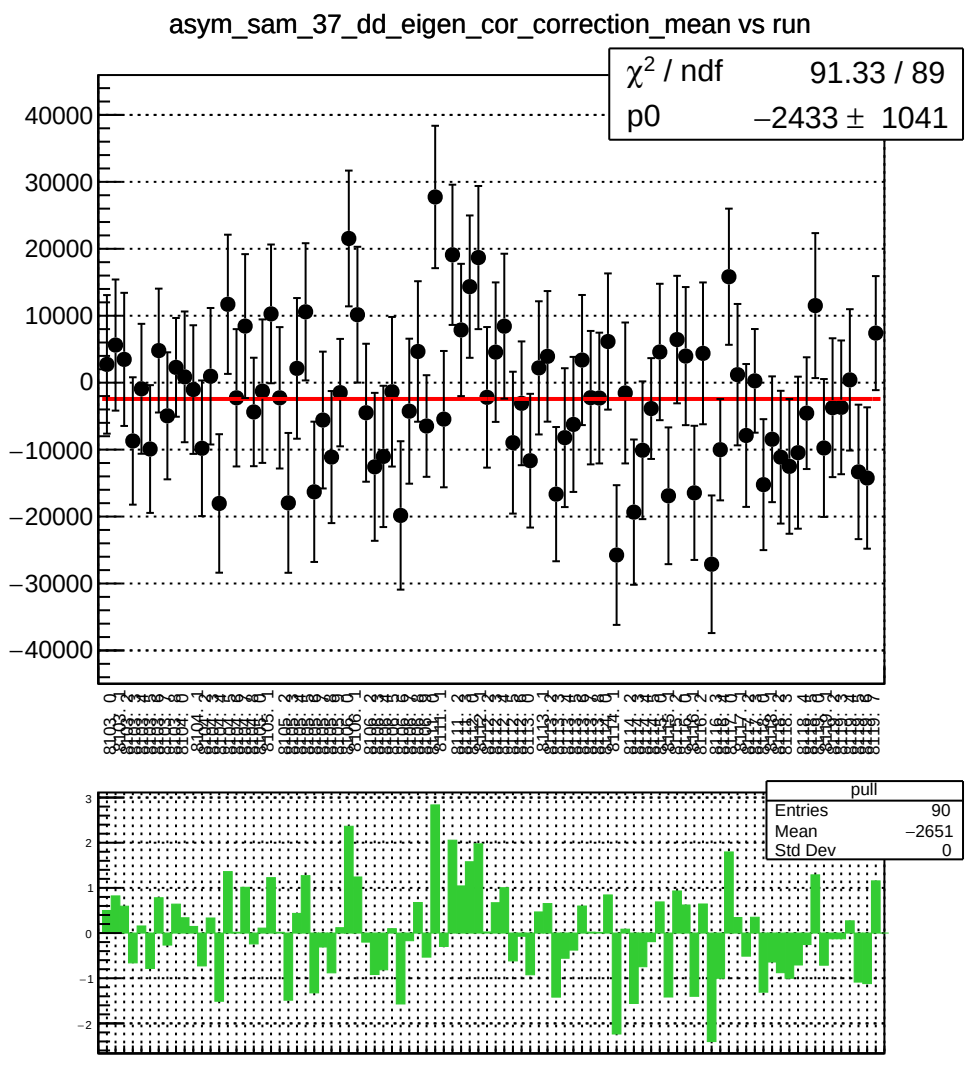

pull1D
Entries 90
Mean 0.001745
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

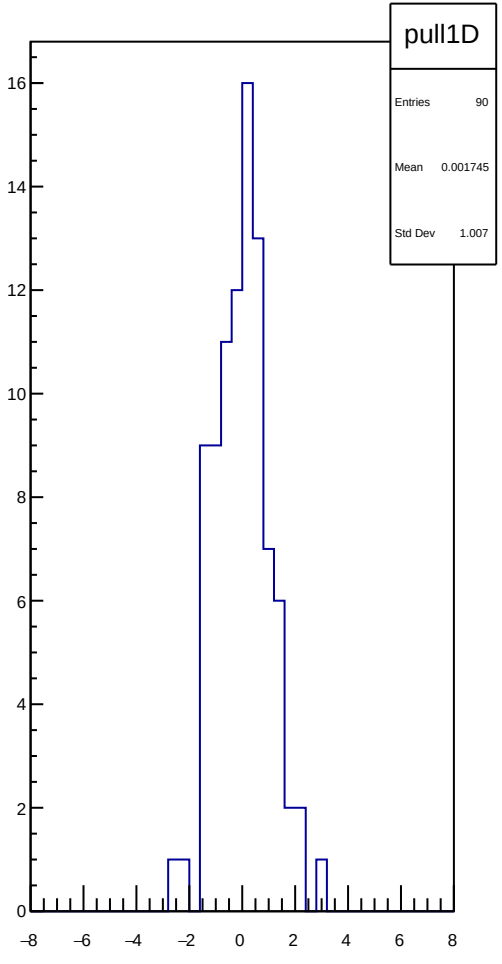

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2799 / 89
p0 975.7 ± 0.7363
1100
1050
1000
950
900
850

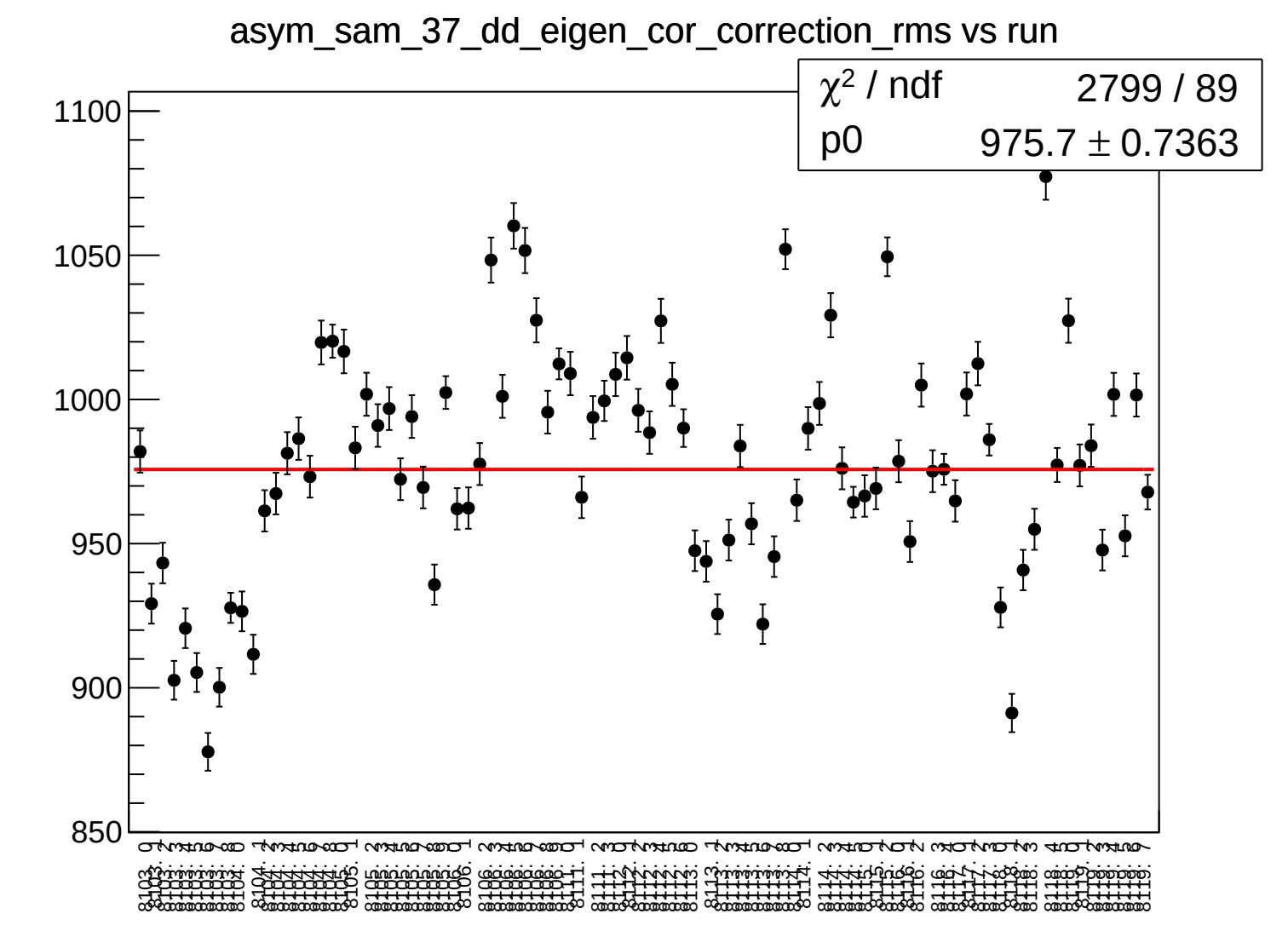

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 98.3 / 89
p0 −108.3 ± 122.1
pull
Entries 90
Mean −87.21
Std Dev 0

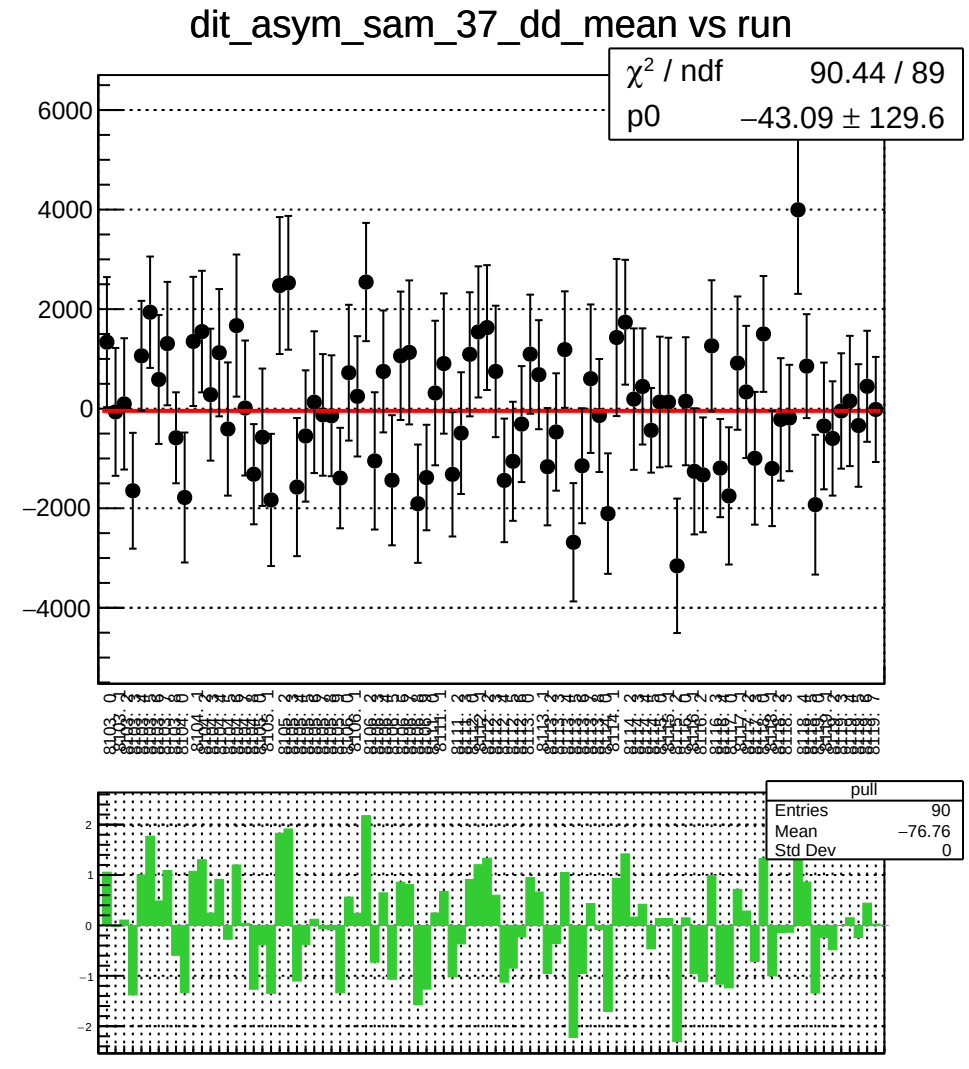

pull1D
Entries 90
Mean 0.03654
Std Dev 1.044

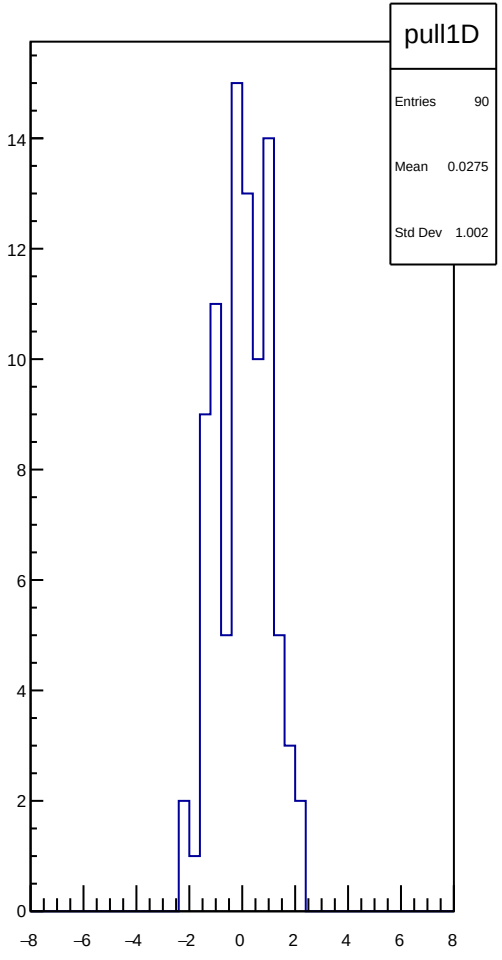

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.48e+04 / 89
p0 114 ± 0.08636
160
150
140
130
120
110
100
90

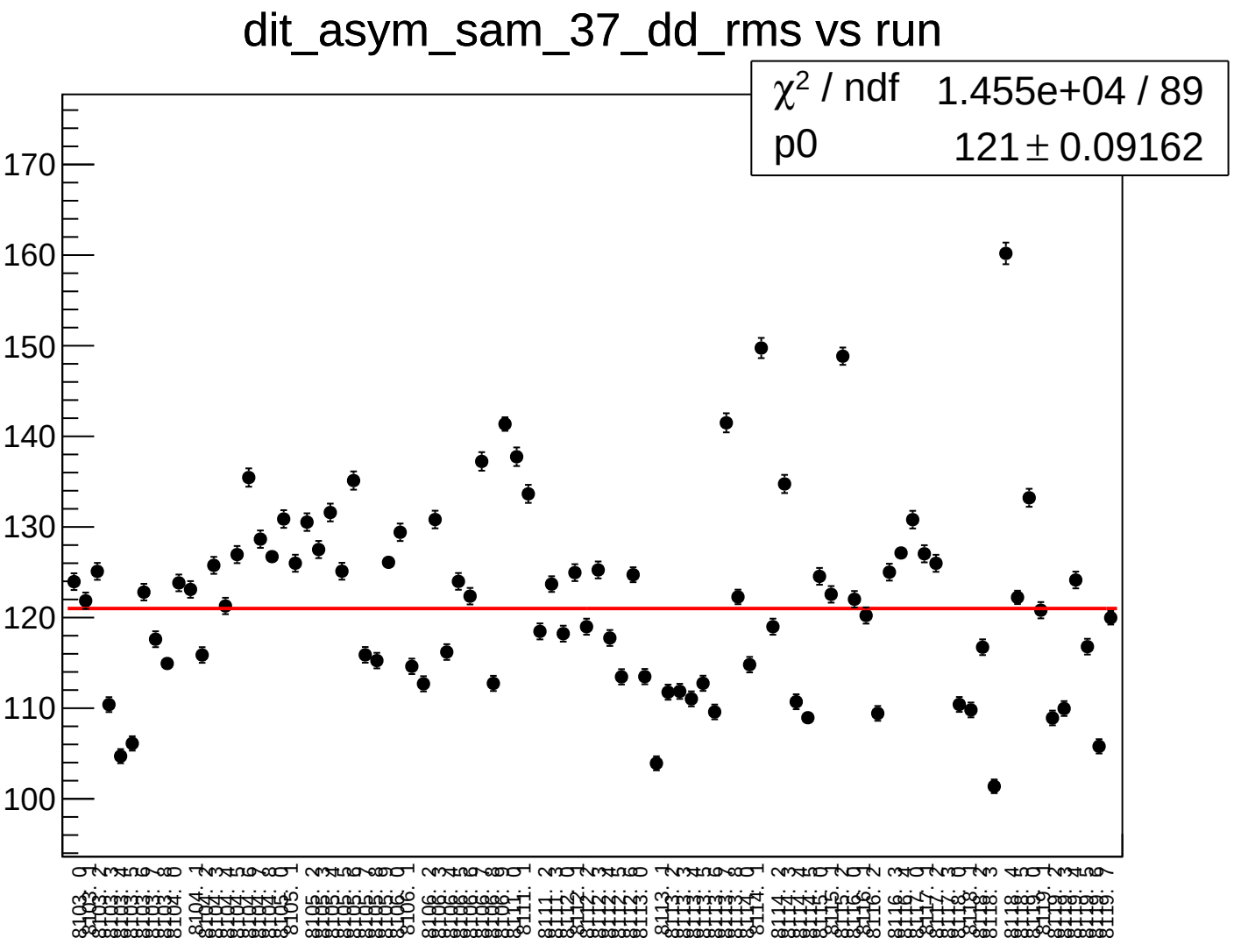

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.33 / 89
p0 −2433 ± 1041
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −2651
Std Dev 0
3
2
1
0
−1
−2

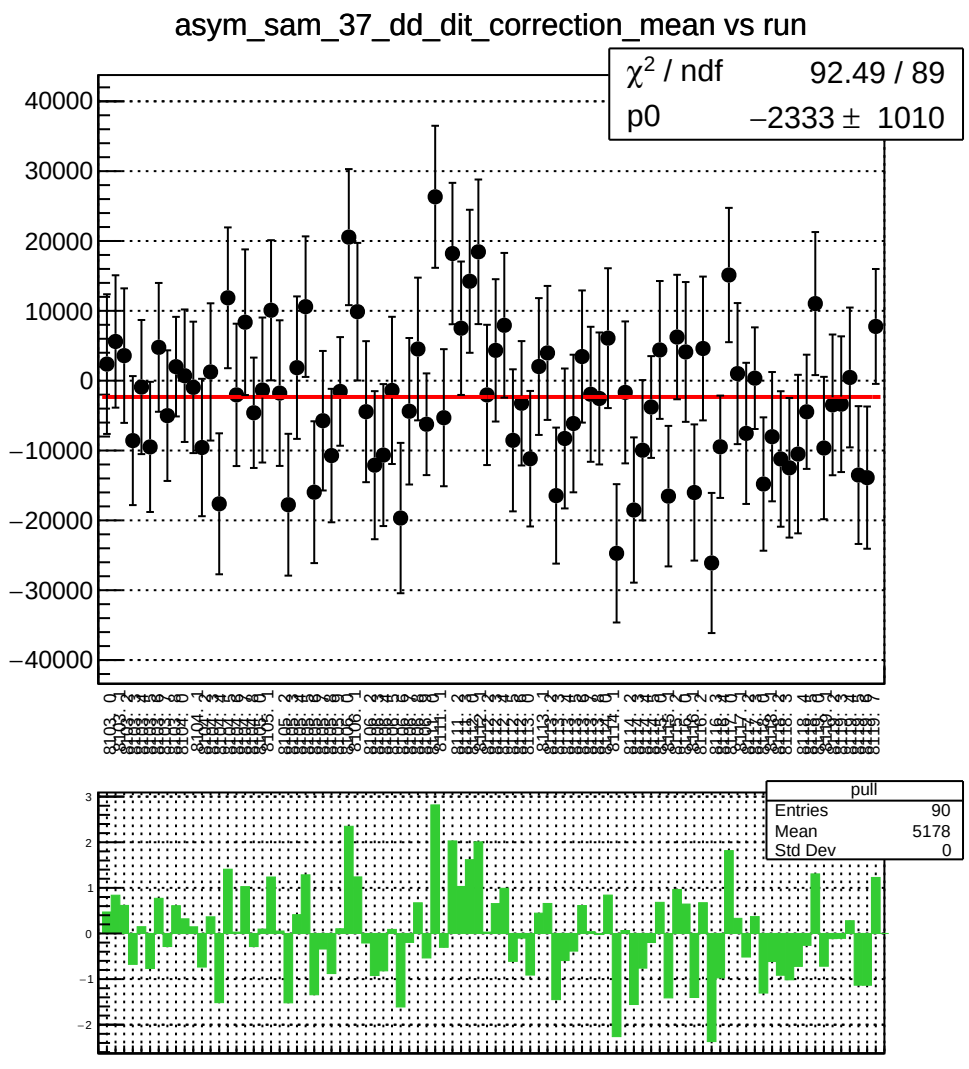

pull1D
Entries 90
Mean 0.001745
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

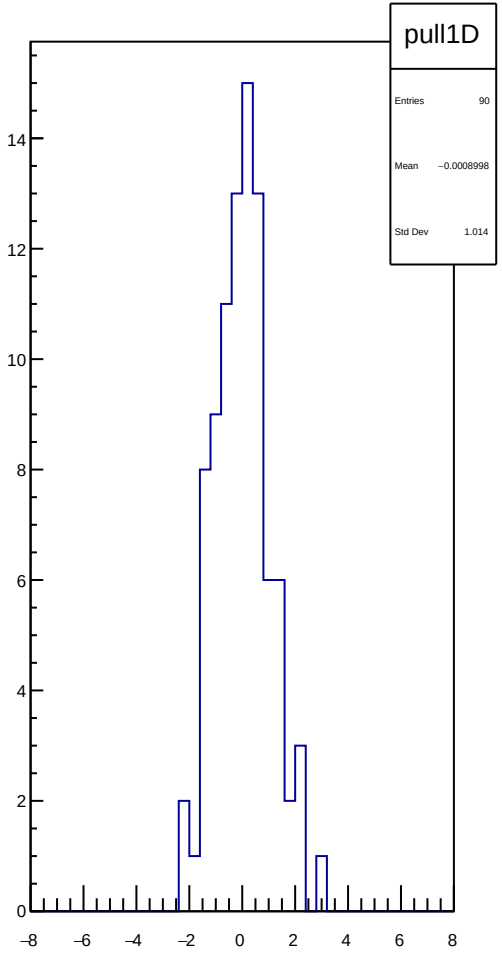

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2799 / 89
p0 975.7 ± 0.7363
1100
1050
1000
950
900
850

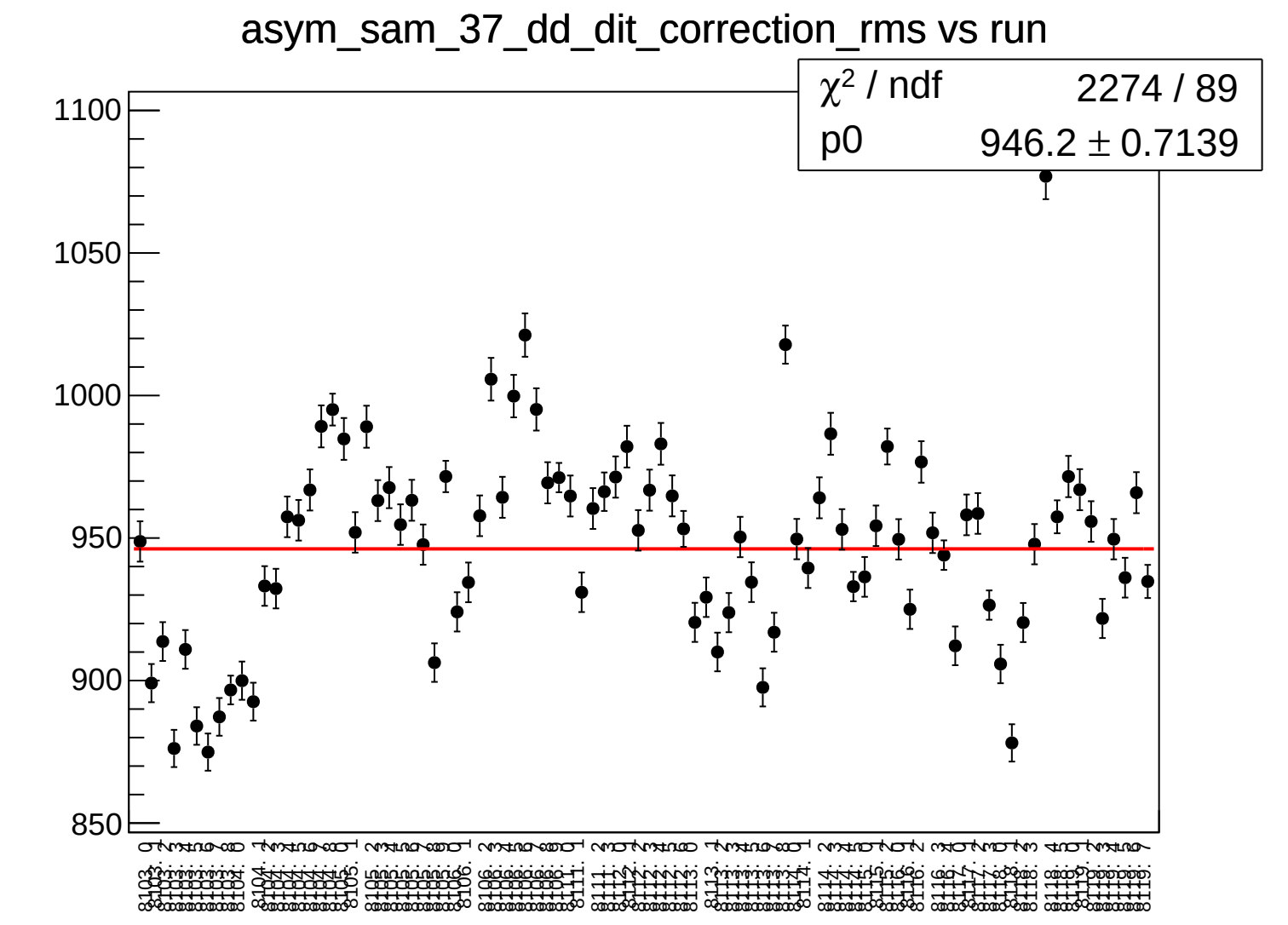

dit_asym_sam_37_dd_mean vs run
χ² / ndf 90.44 / 89
p0 −43.09 ± 129.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −76.76
Std Dev 0
2
1
0
−1
−2

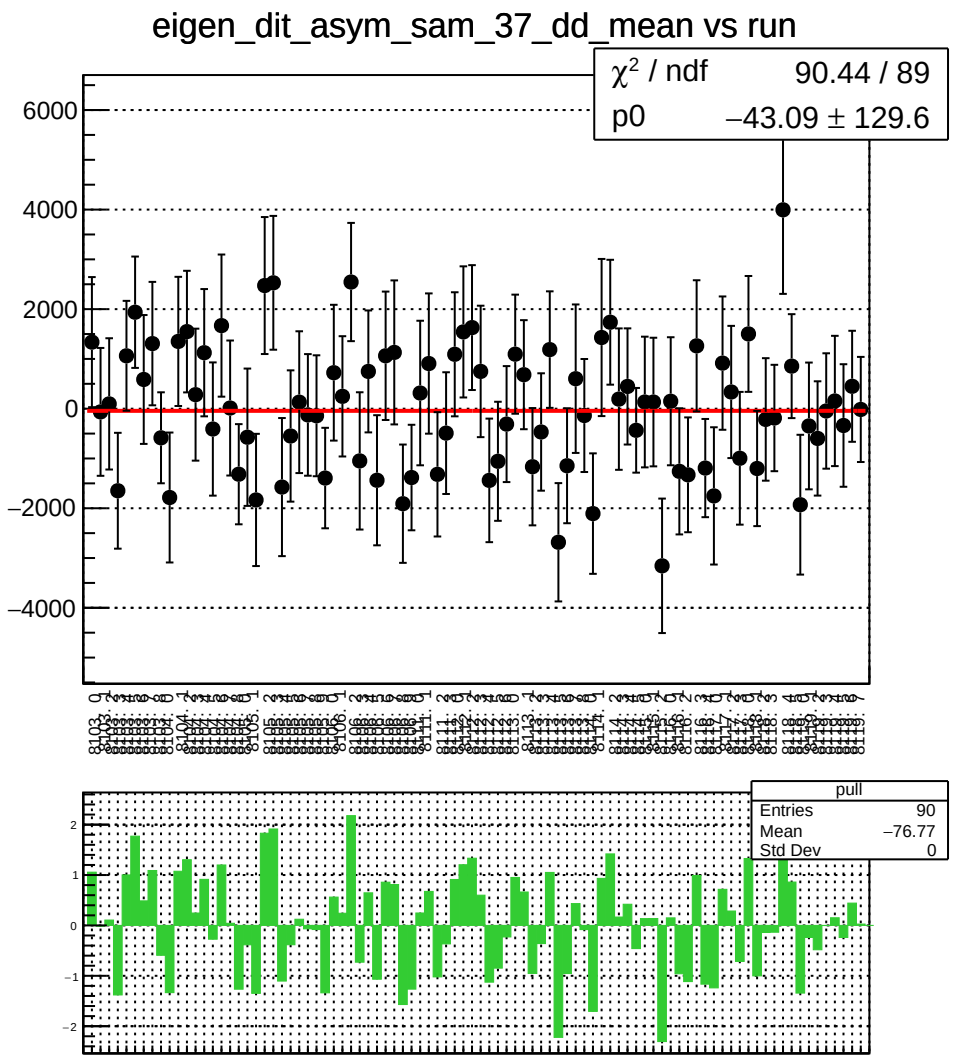

pull1D
Entries 90
Mean 0.0275
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

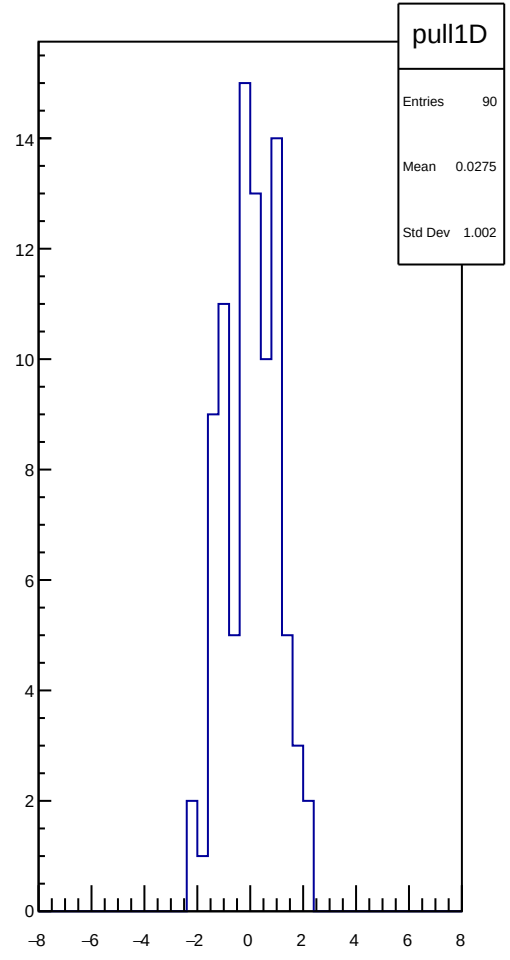

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.455e+04 / 89
p0 121 ± 0.09162
170
160
150
140
130
120
110
100

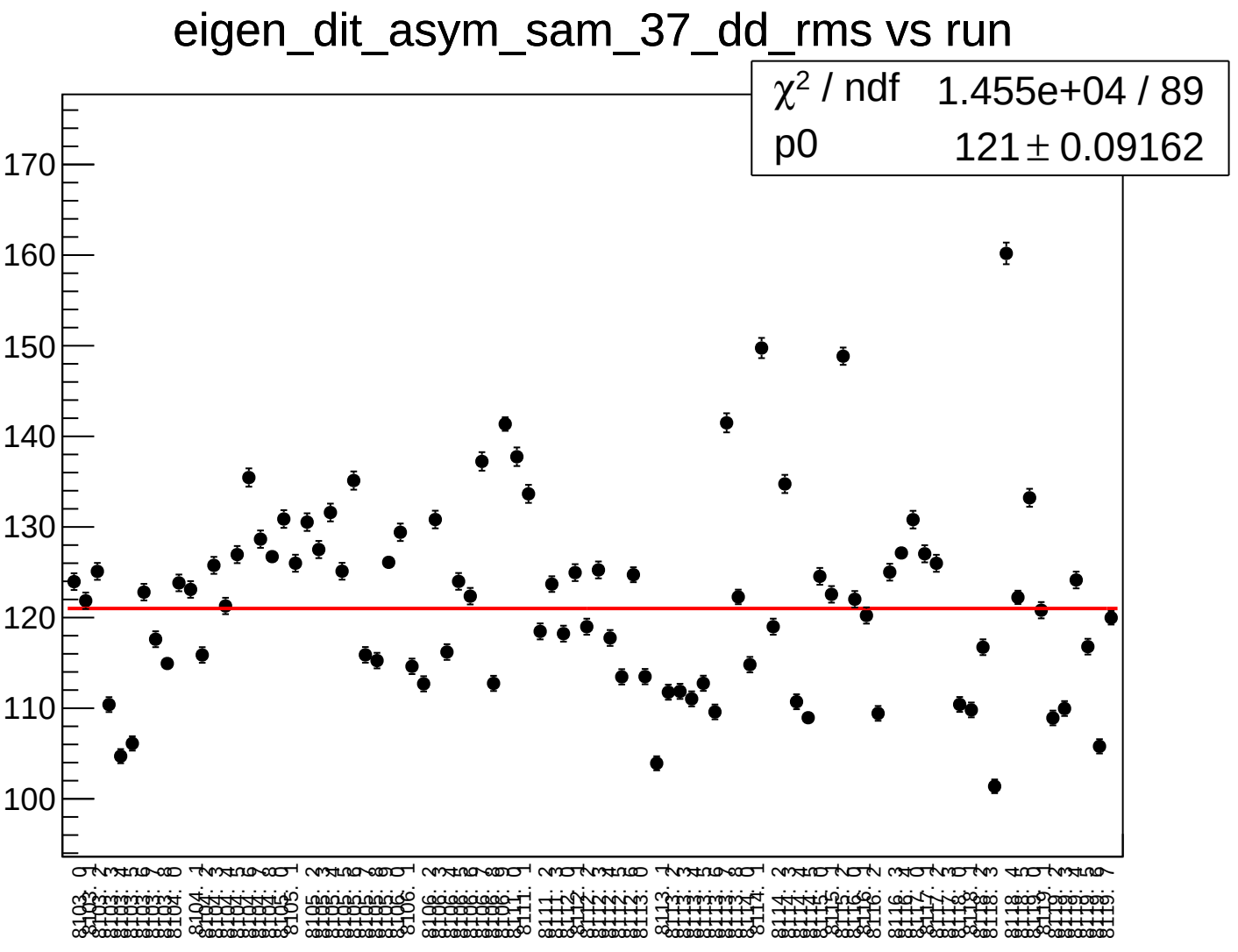

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 92.49 / 89
p0 −2333 ± 1010
pull
Entries 90
Mean 5178
Std Dev 0

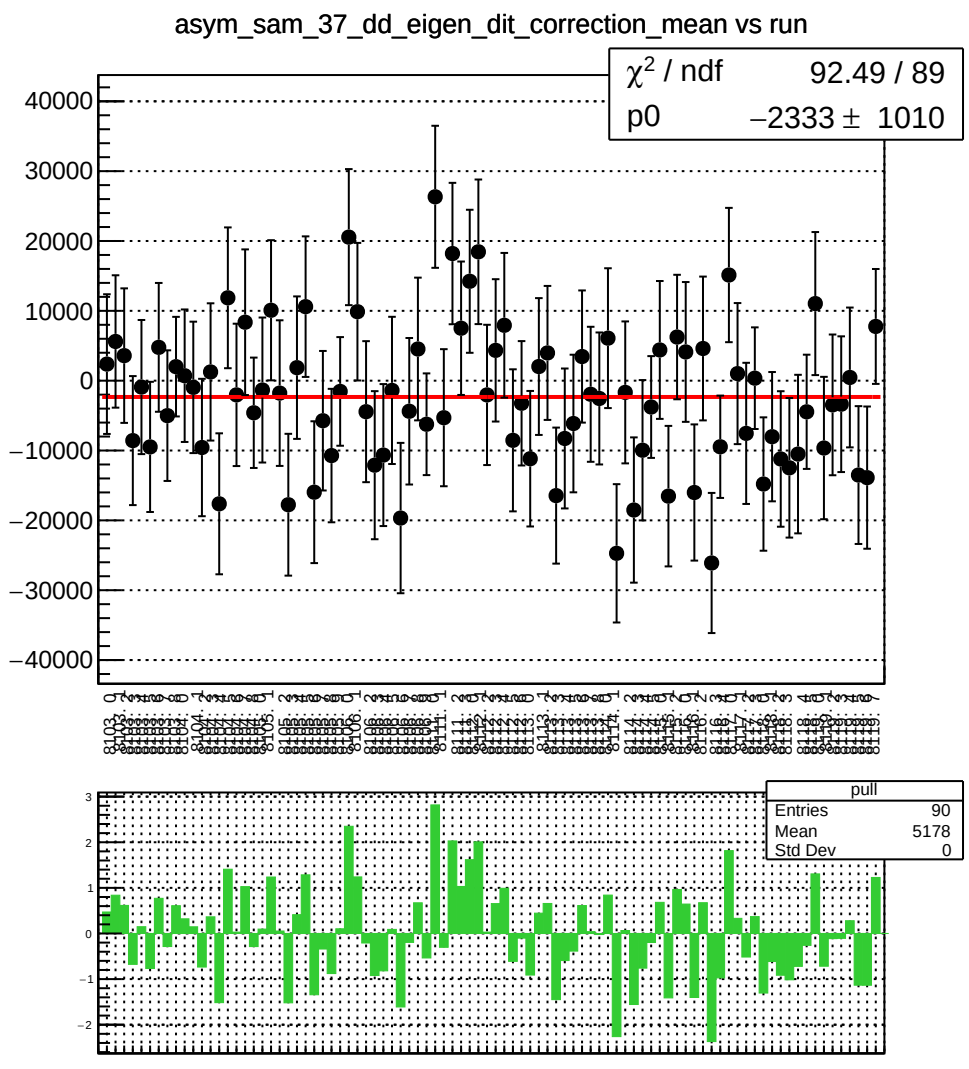

pull1D
Entries 90
Mean −0.0008998
Std Dev 1.014

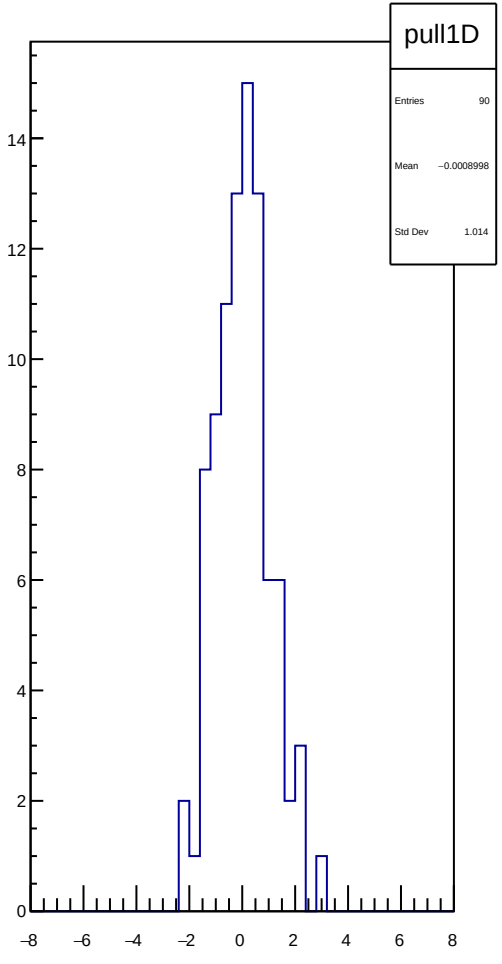

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2274 / 89
p0 946.2 ± 0.7139
1100
1050
1000
950
900
850

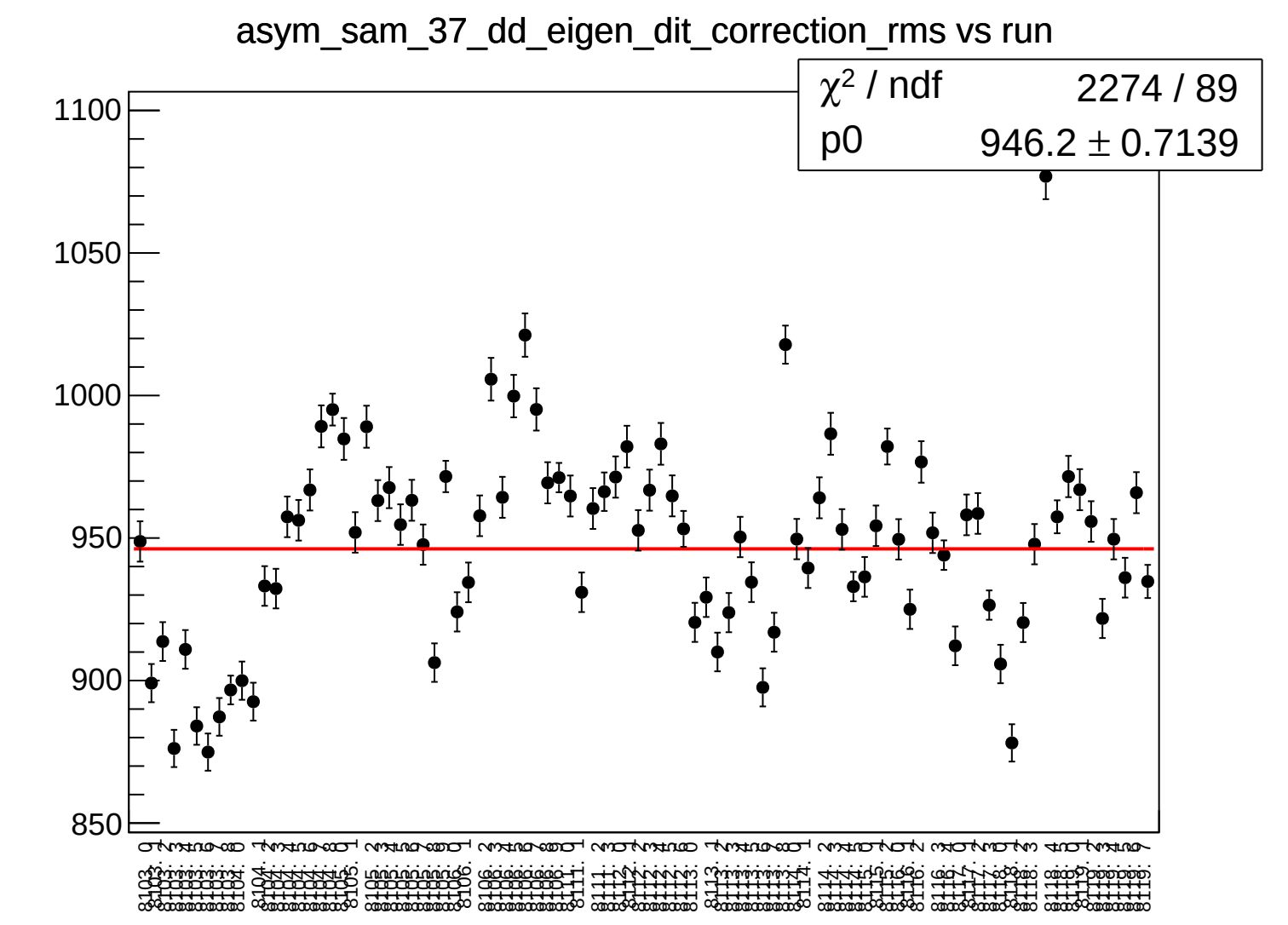

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 90.44 / 89
p0 −43.09 ± 129.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −76.77
Std Dev 0
2
1
0
−1
−2

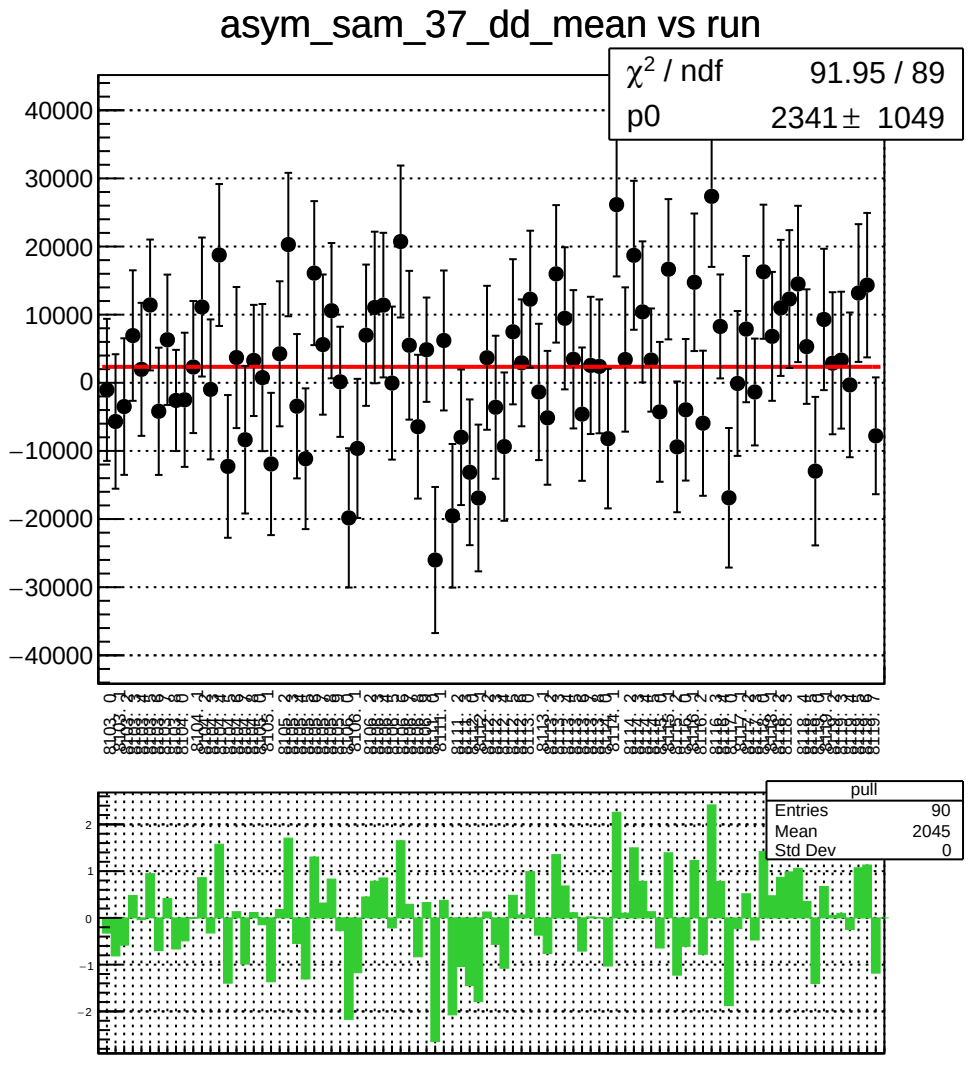

pull1D
Entries 90
Mean 0.0275
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

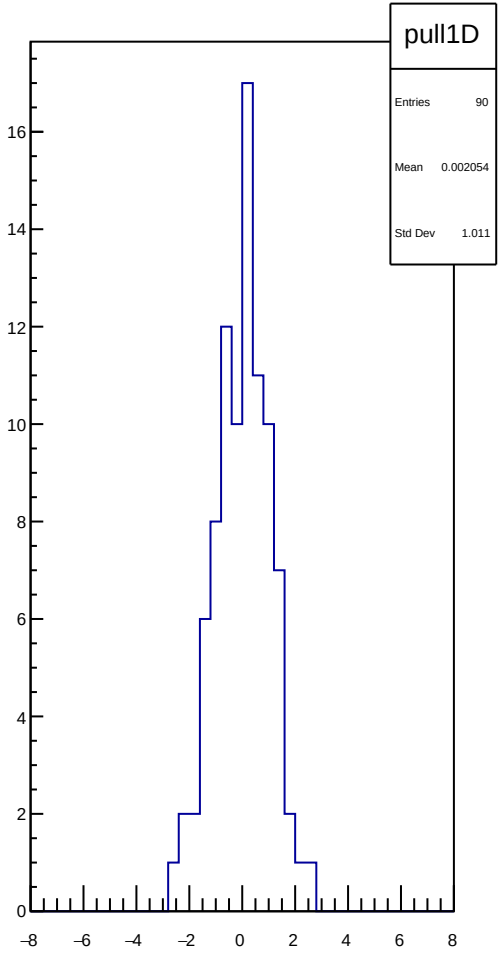

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.455e+04 / 89
p0 121 ± 0.09162
170
160
150
140
130
120
110
100

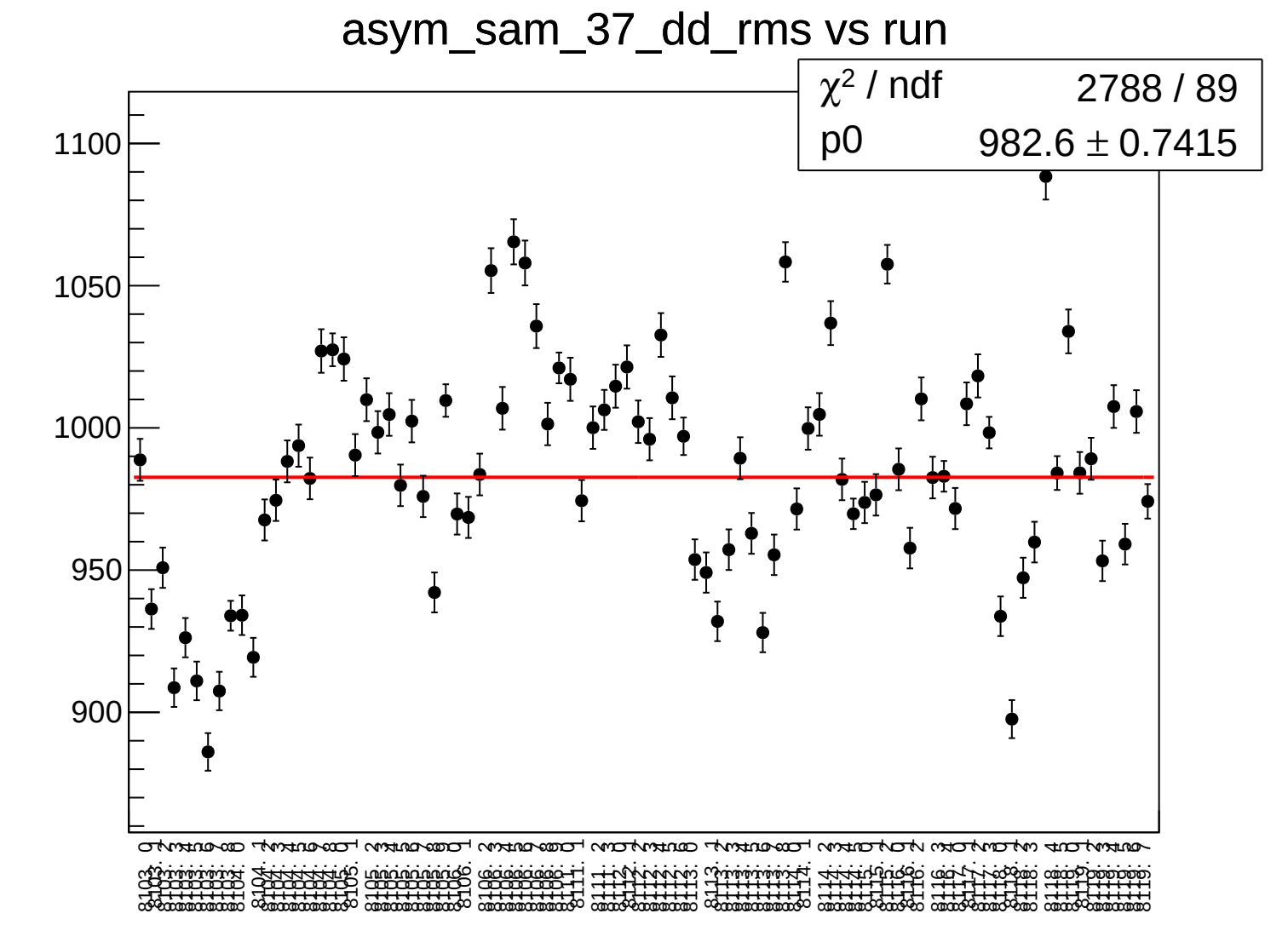

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.49 / 89
p0 −2333 ± 1010
pull
Entries 90
Mean 5178
Std Dev 0

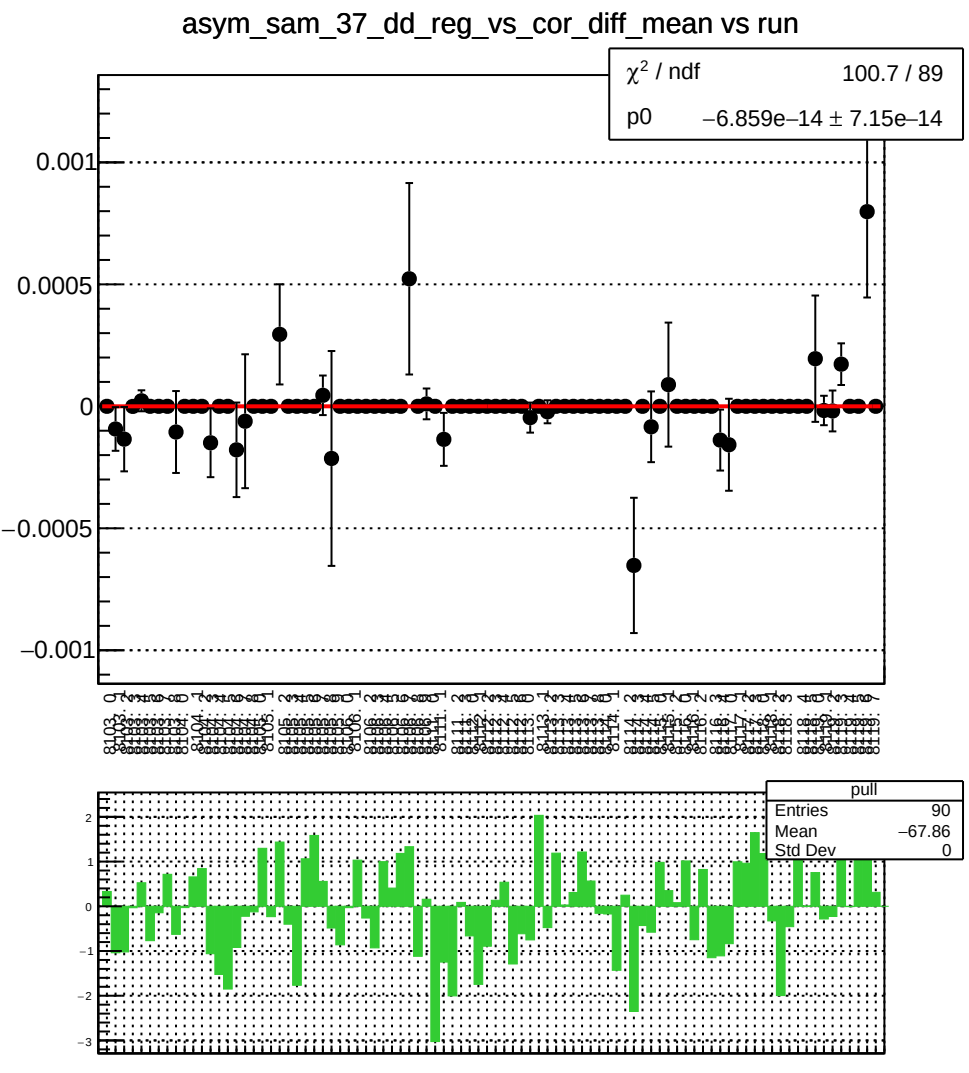

pull1D
Entries 90
Mean −0.0008998
Std Dev 1.014

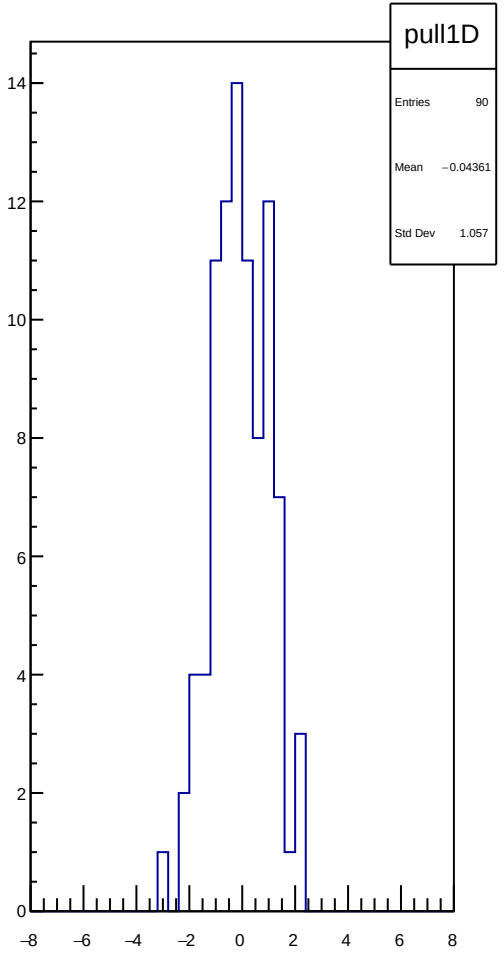

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2274 / 89
p0 946.2 ± 0.7139
1100
1050
1000
950
900
850

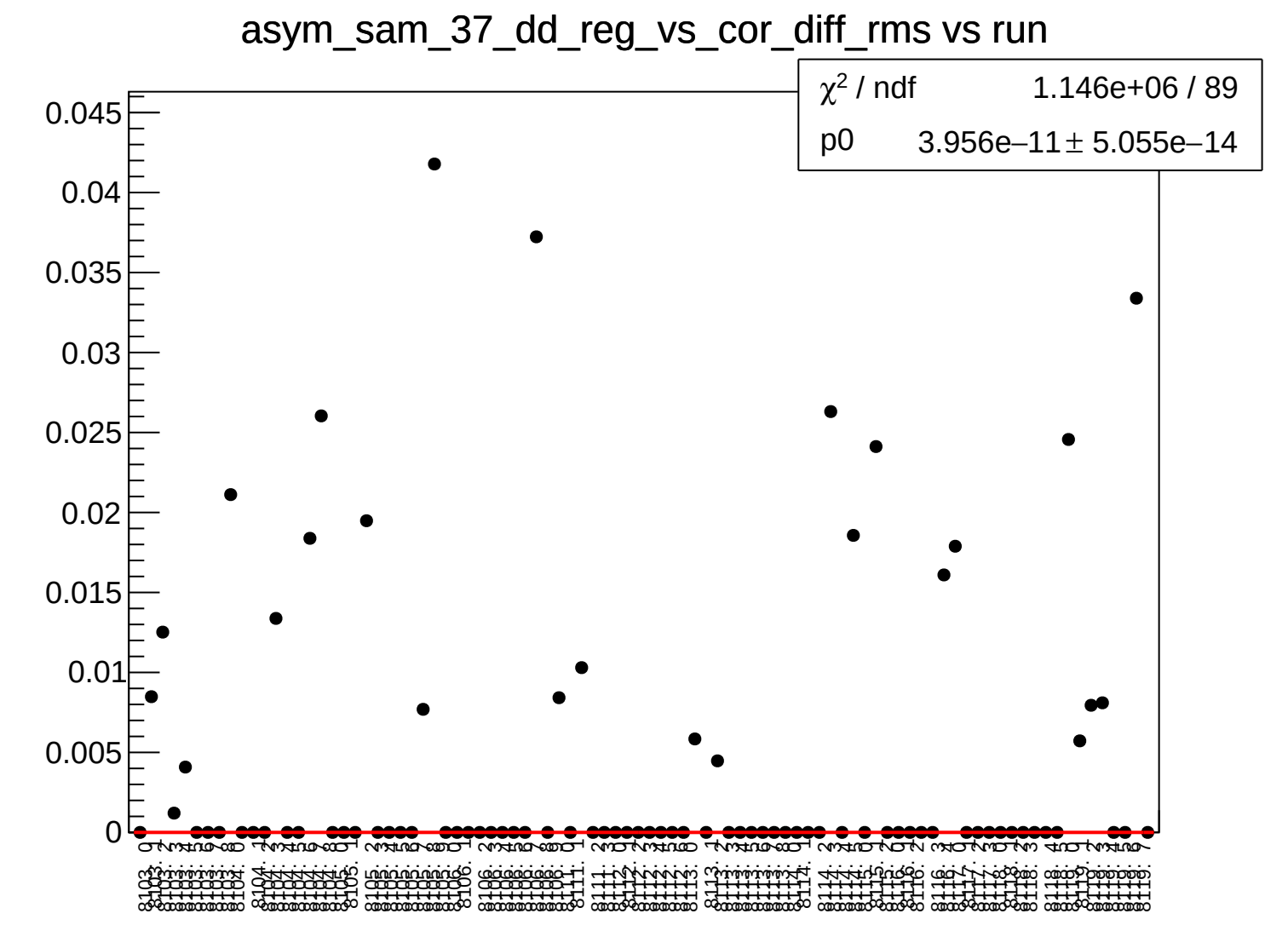

asym_sam_37_dd_mean vs run
χ² / ndf 91.95 / 89
p0 2341 ± 1049
pull
Entries 90
Mean 2045
Std Dev 0

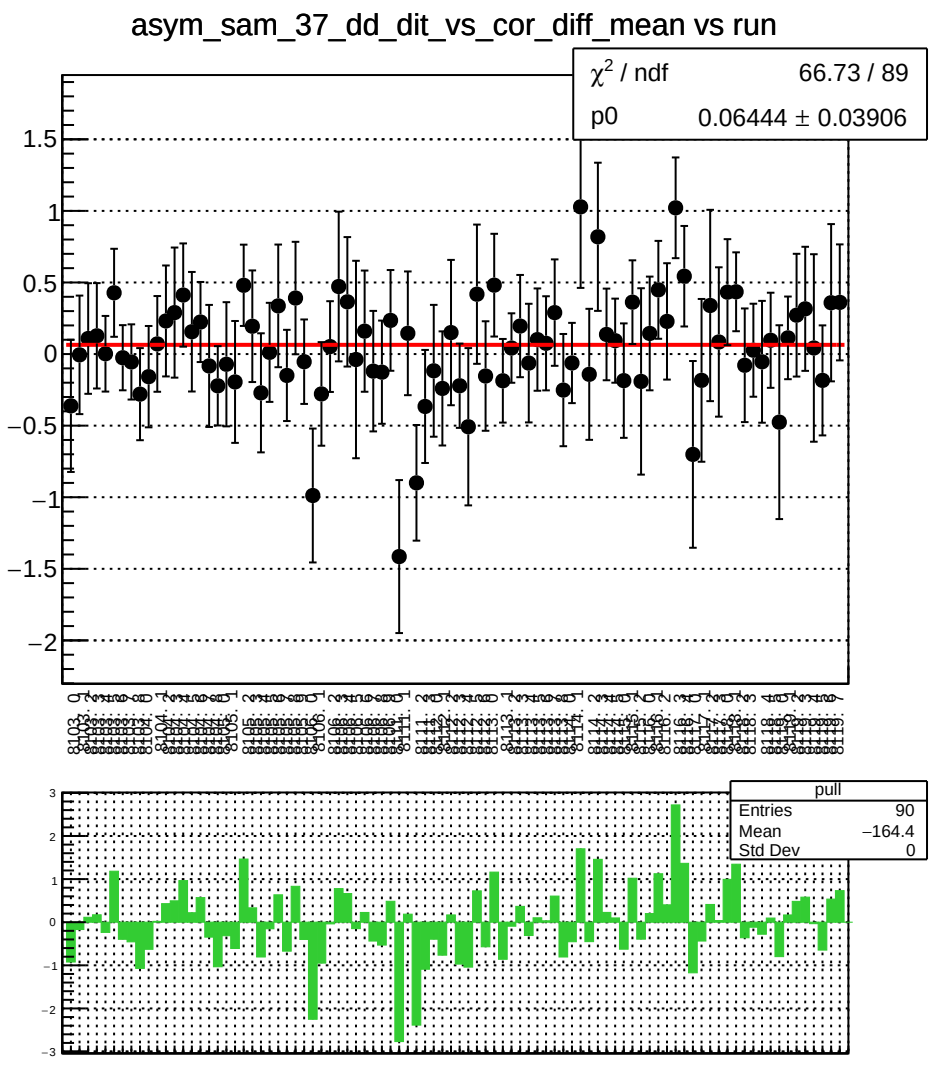

pull1D
Entries 90
Mean 0.002054
Std Dev 1.011

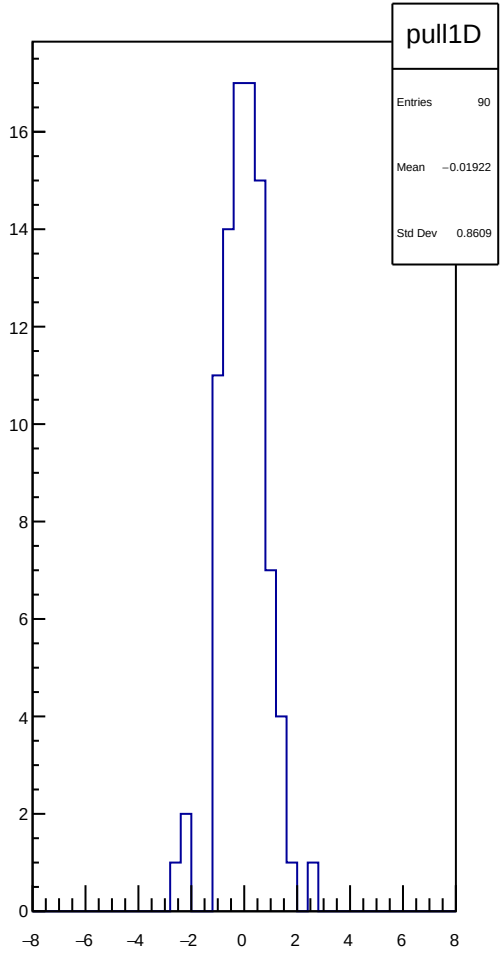

asym_sam_37_dd_rms vs run
χ² / ndf 2788 / 89
p0 982.6 ± 0.7415
1100
1050
1000
950
900

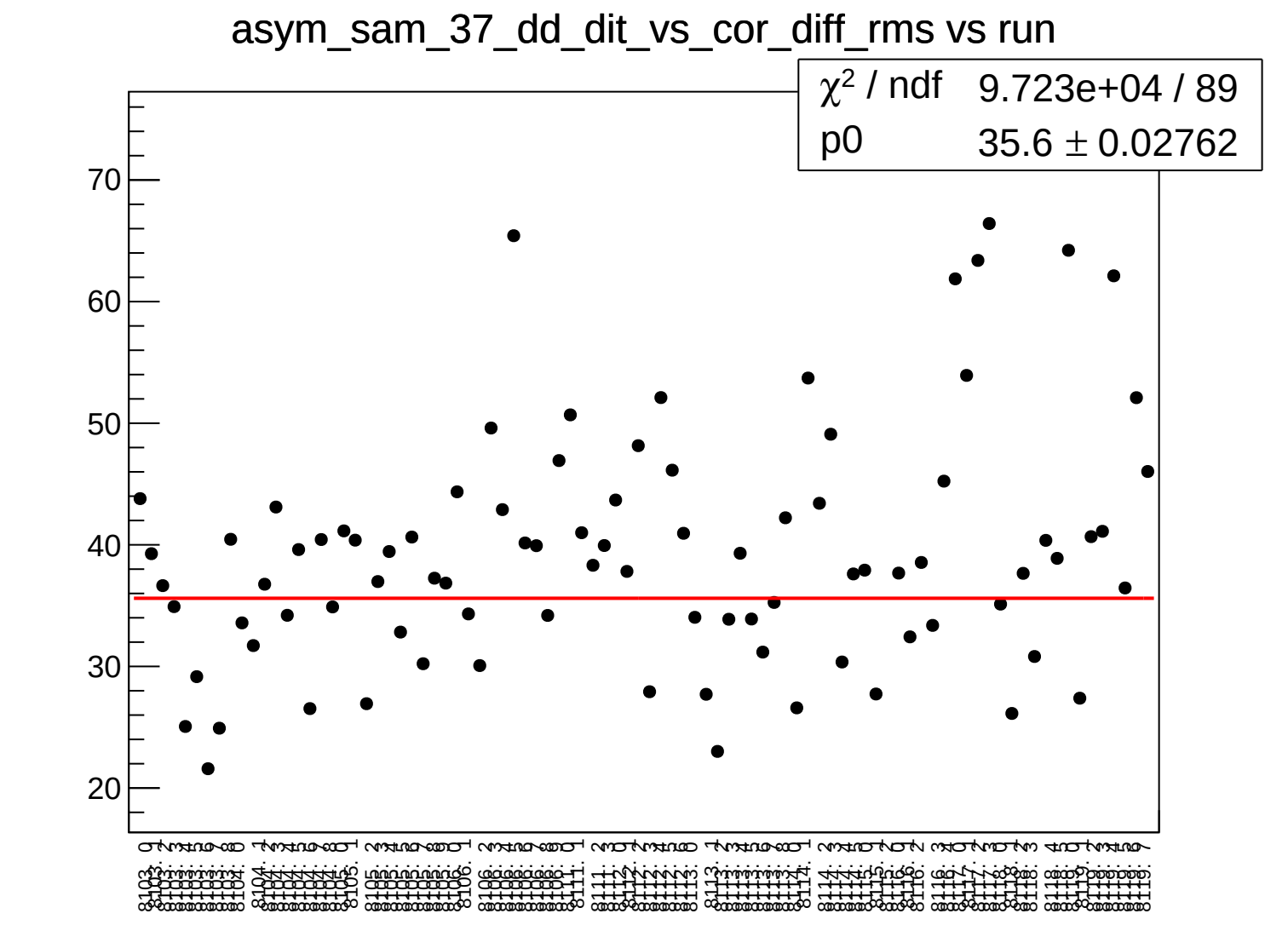

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 89
p0 −6.859e−14 ± 7.15e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean −67.86
Std Dev 0
2
1
0
−1
−2
−3

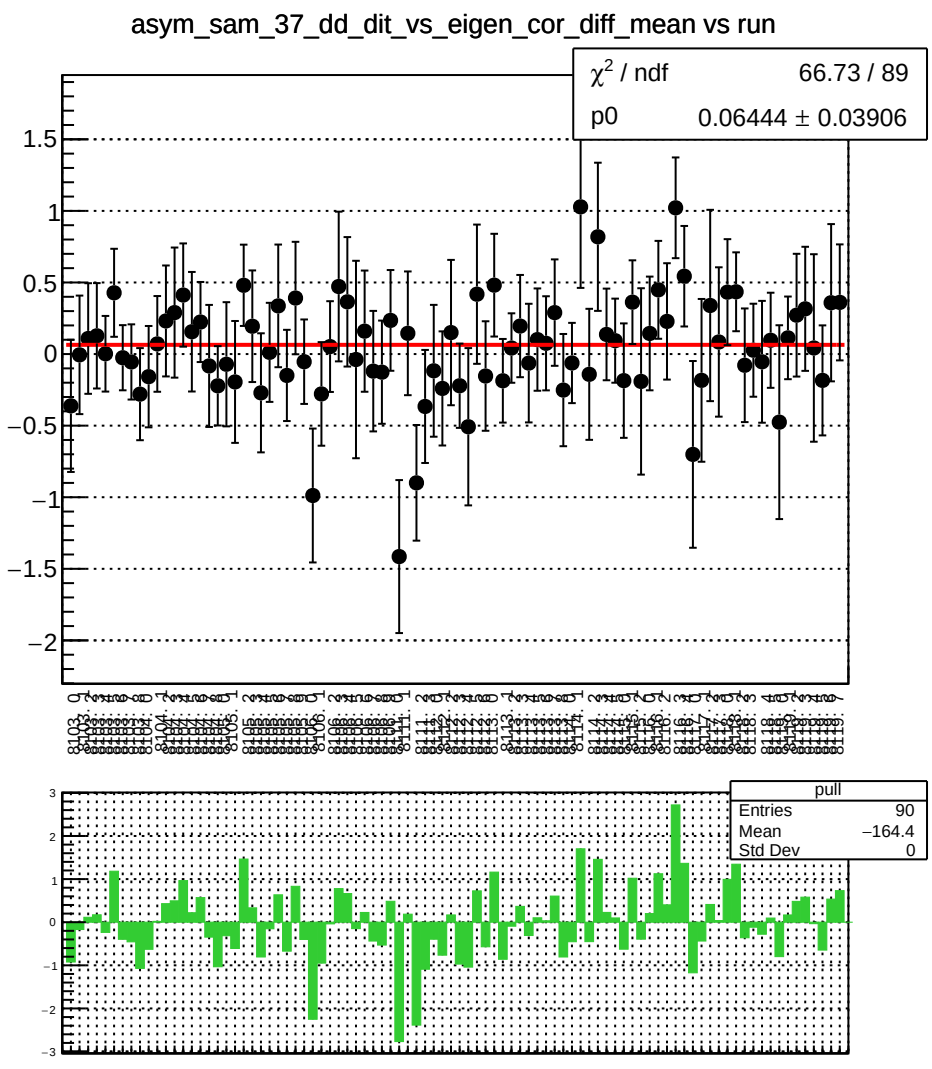

pull1D
Entries 90
Mean −0.04361
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

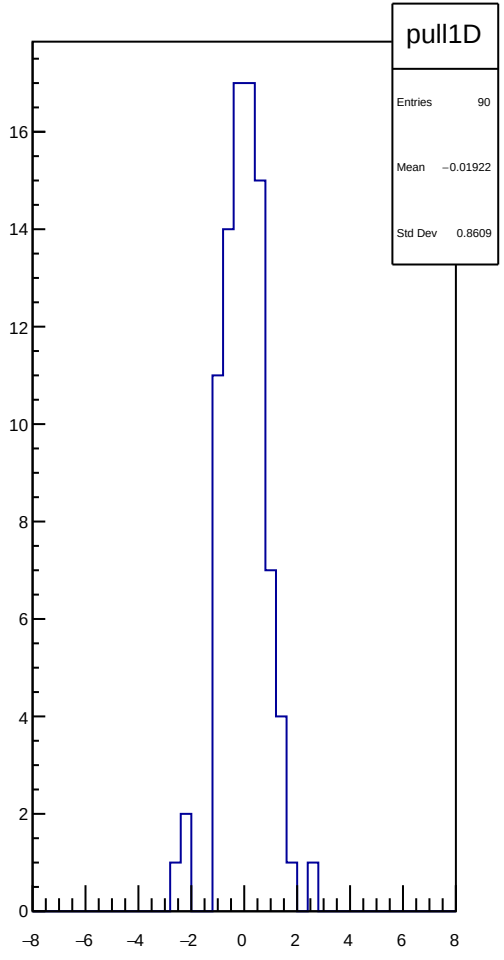

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.146e+06 / 89
p0 3.956e−11 ± 5.055e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

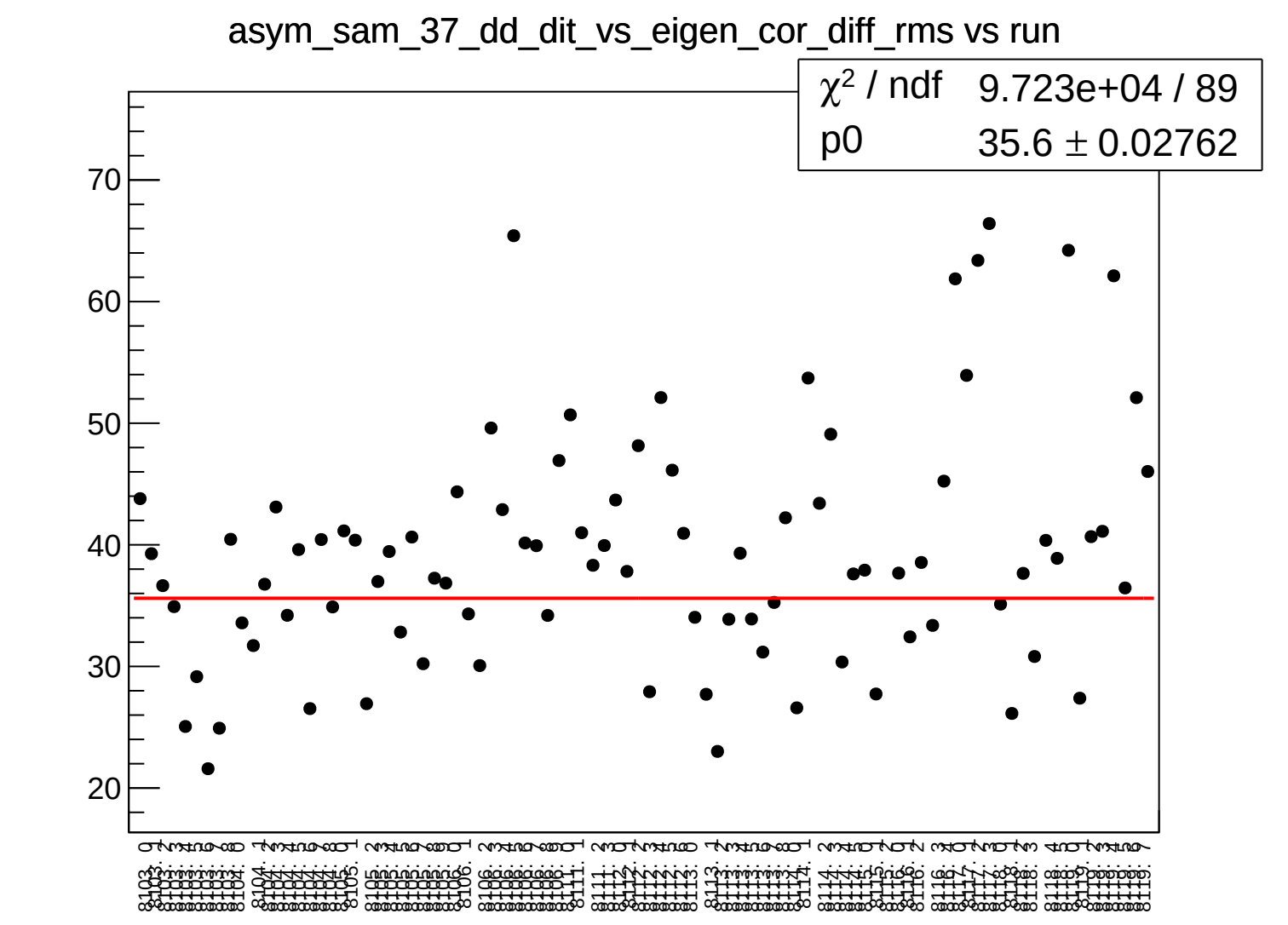

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.73 / 89
p0 0.06444 ± 0.03906
pull
Entries 90
Mean −164.4
Std Dev 0

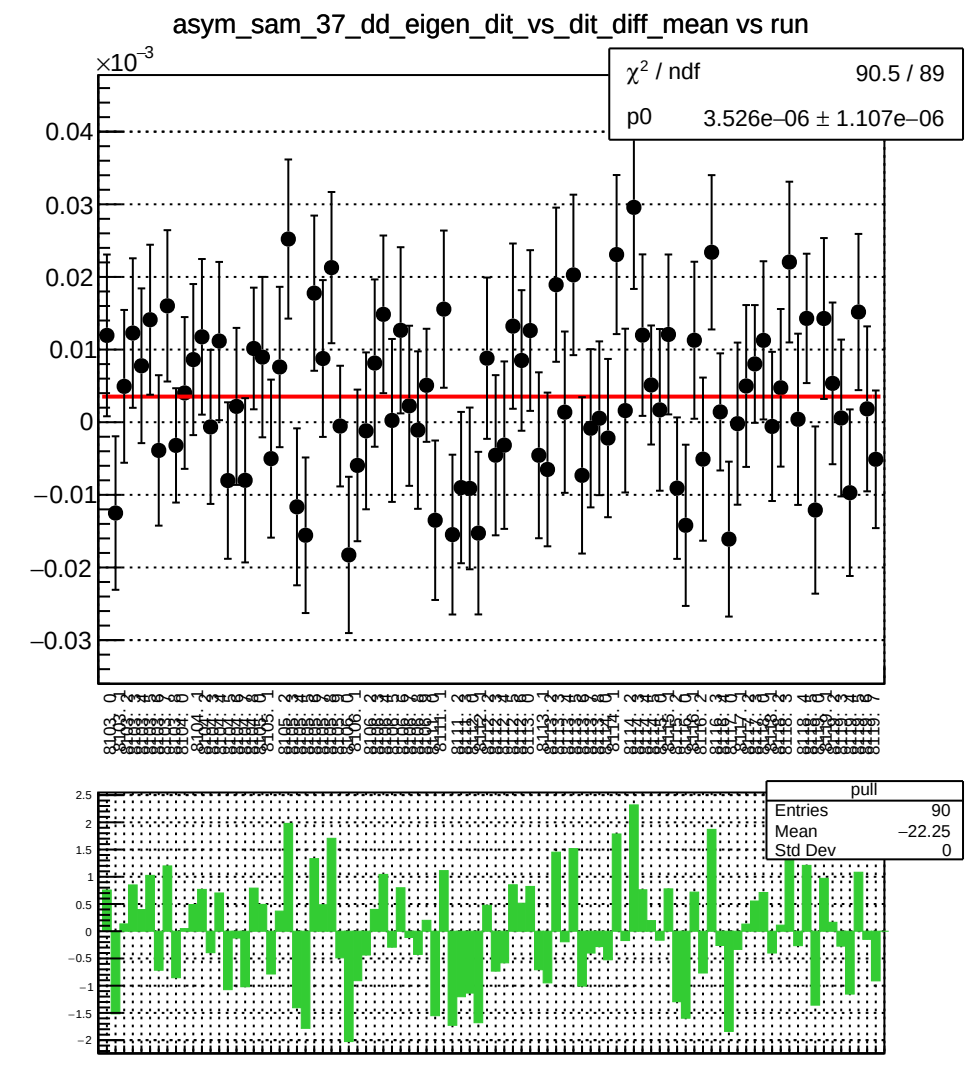

pull1D
Entries 90
Mean −0.01922
Std Dev 0.8609

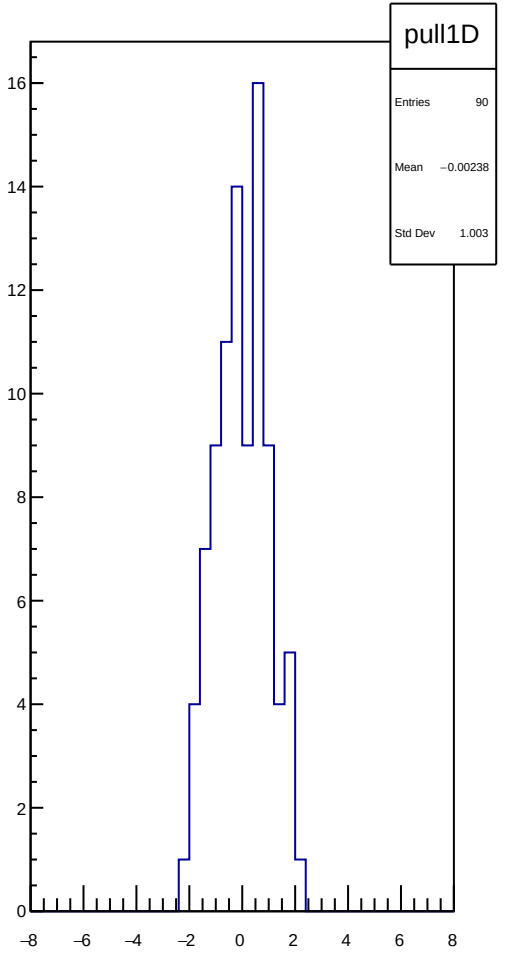

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.723e+04 / 89
p0 35.6 ± 0.02762
70
60
50
40
30
20

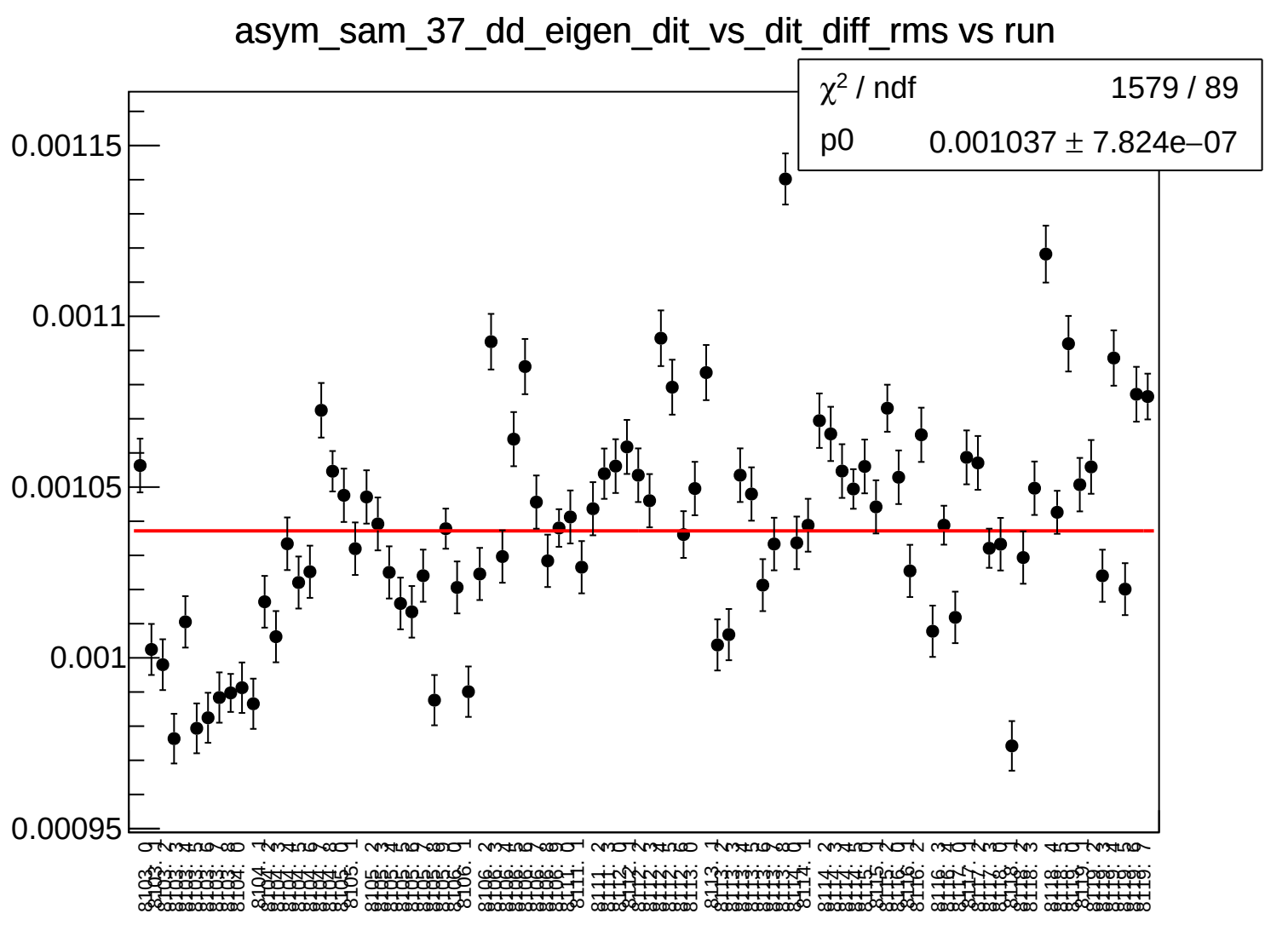

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.73 / 89
p0 0.06444 ± 0.03906
pull
Entries 90
Mean −164.4
Std Dev 0

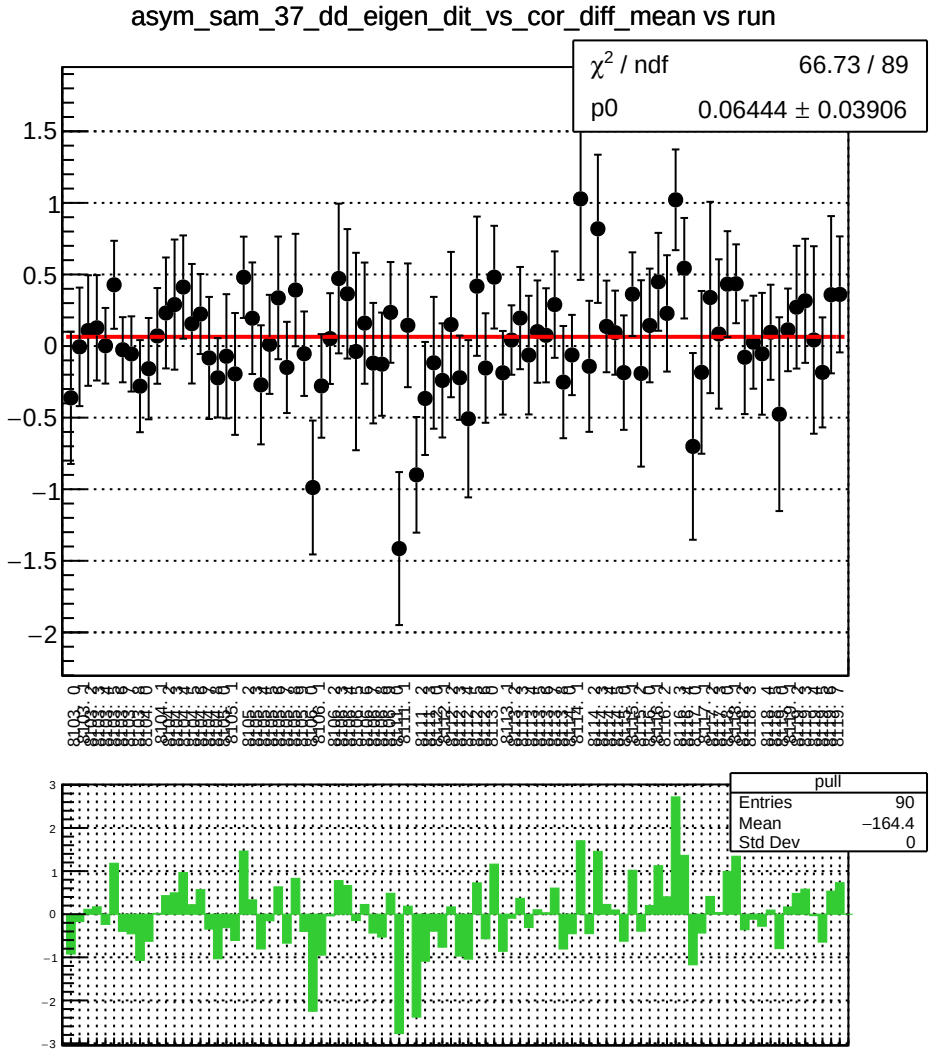

pull1D
Entries 90
Mean −0.01922
Std Dev 0.8609

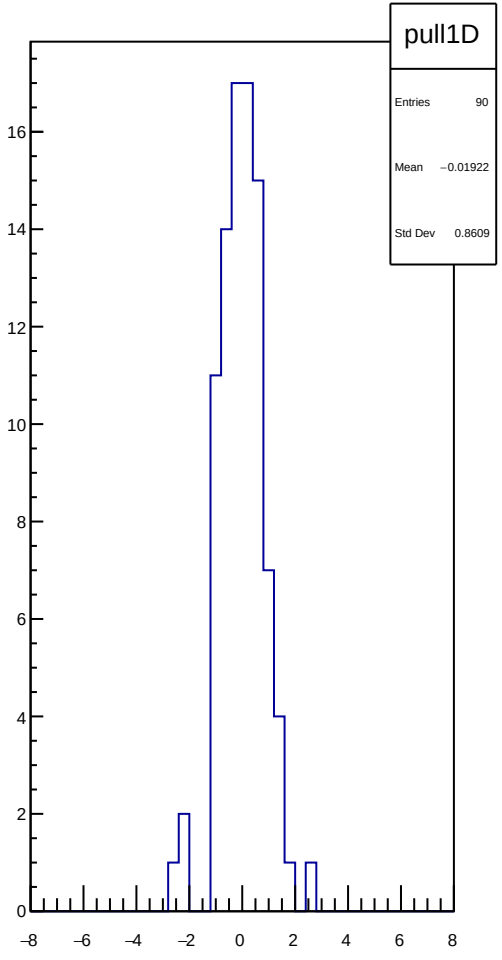

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.723e+04 / 89
p0 35.6 ± 0.02762
70
60
50
40
30
20

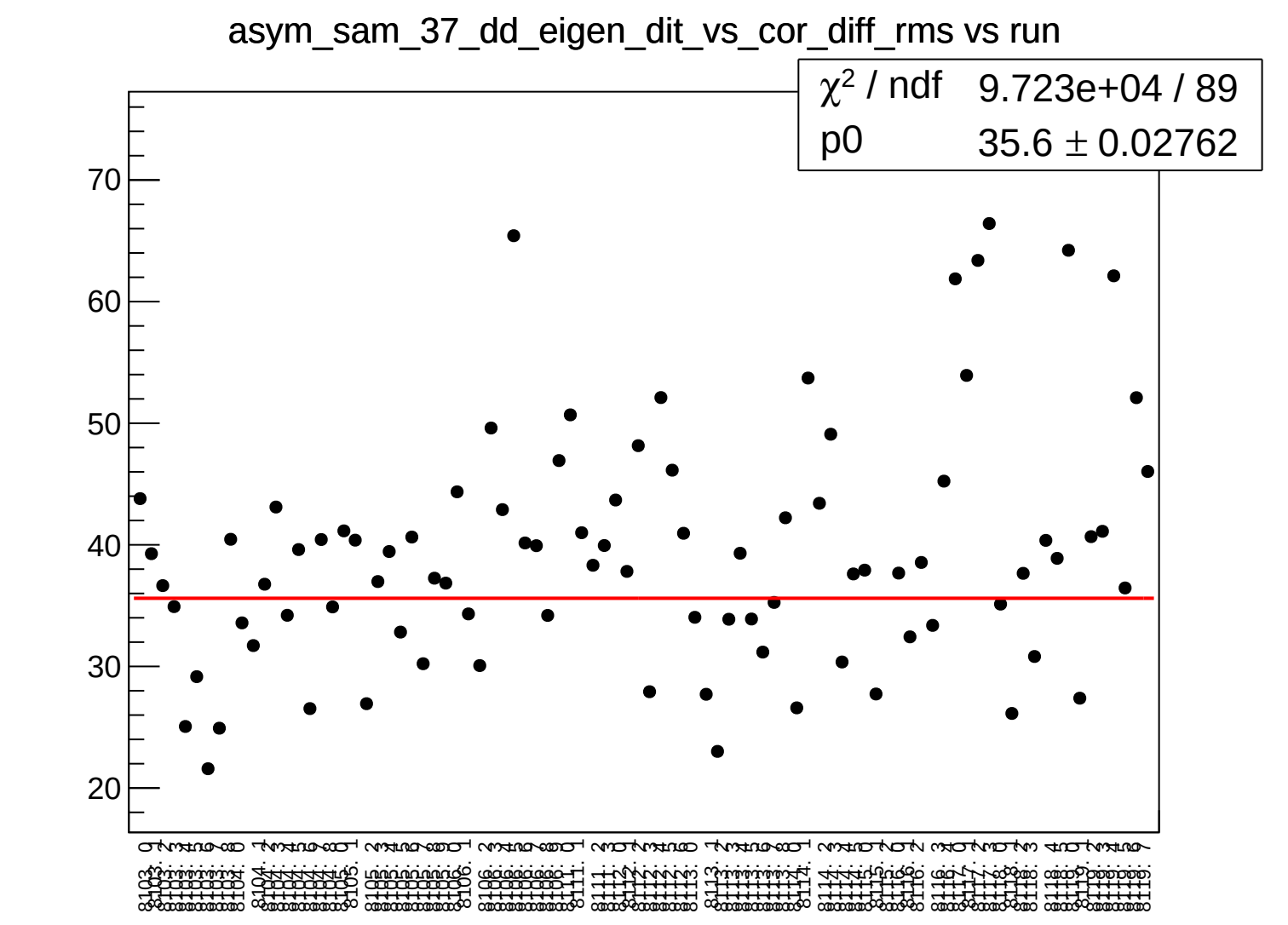

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.5 / 89
p0 3.526e−06 ± 1.107e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 90
Mean −22.25
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

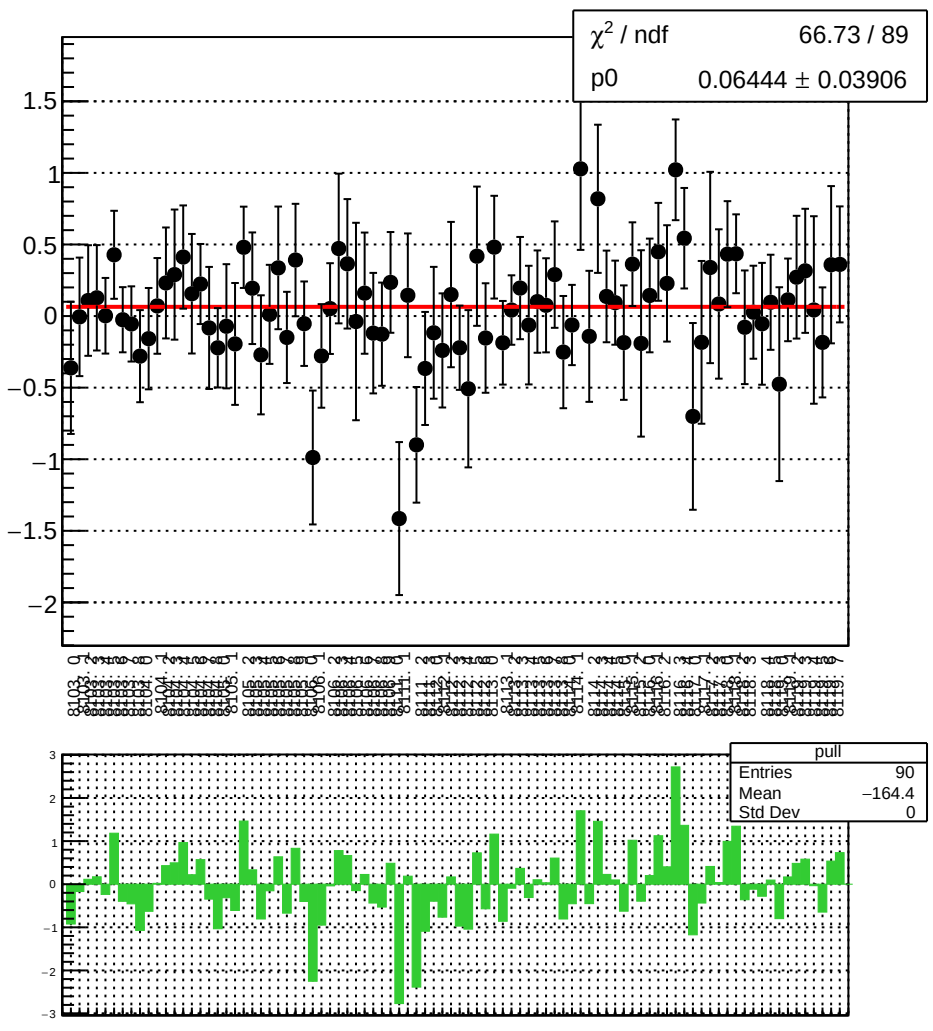

pull1D
Entries 90
Mean −0.00238
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

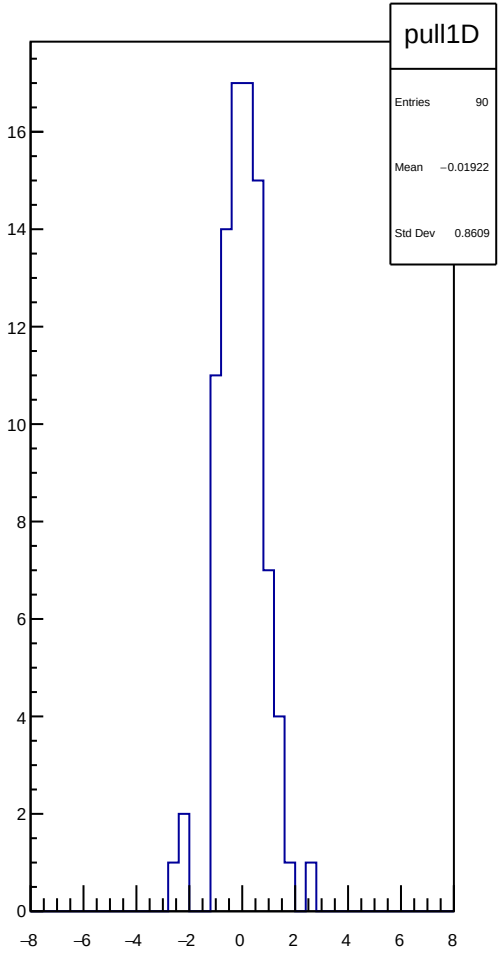

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1579 / 89
p0 0.001037 ± 7.824e−07
0.00115
0.0011
0.00105
0.001
0.00095

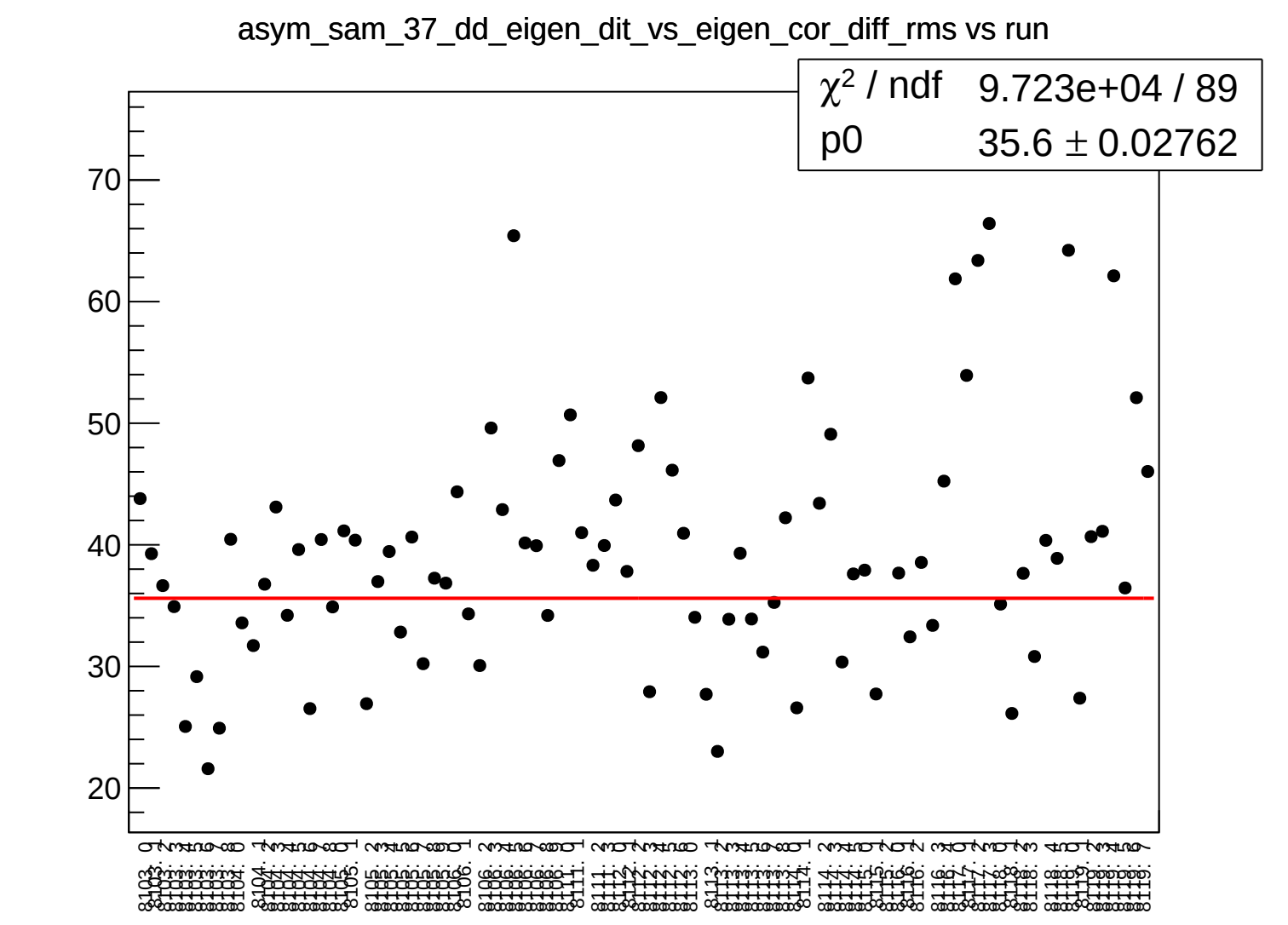

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.73 / 89
p0 0.06444 ± 0.03906
pull
Entries 90
Mean −164.4
Std Dev 0

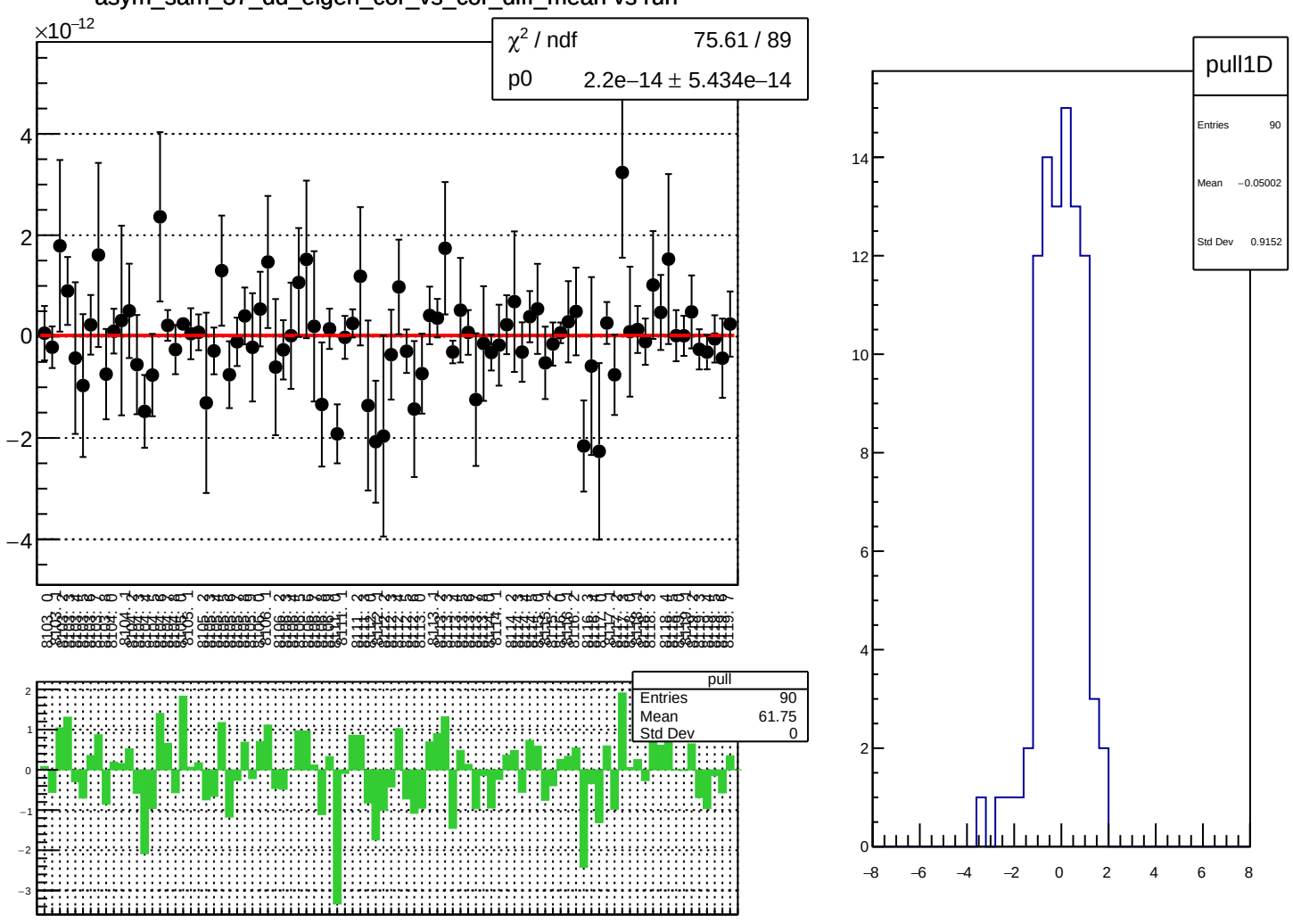

pull1D
Entries 90
Mean −0.01922
Std Dev 0.8609

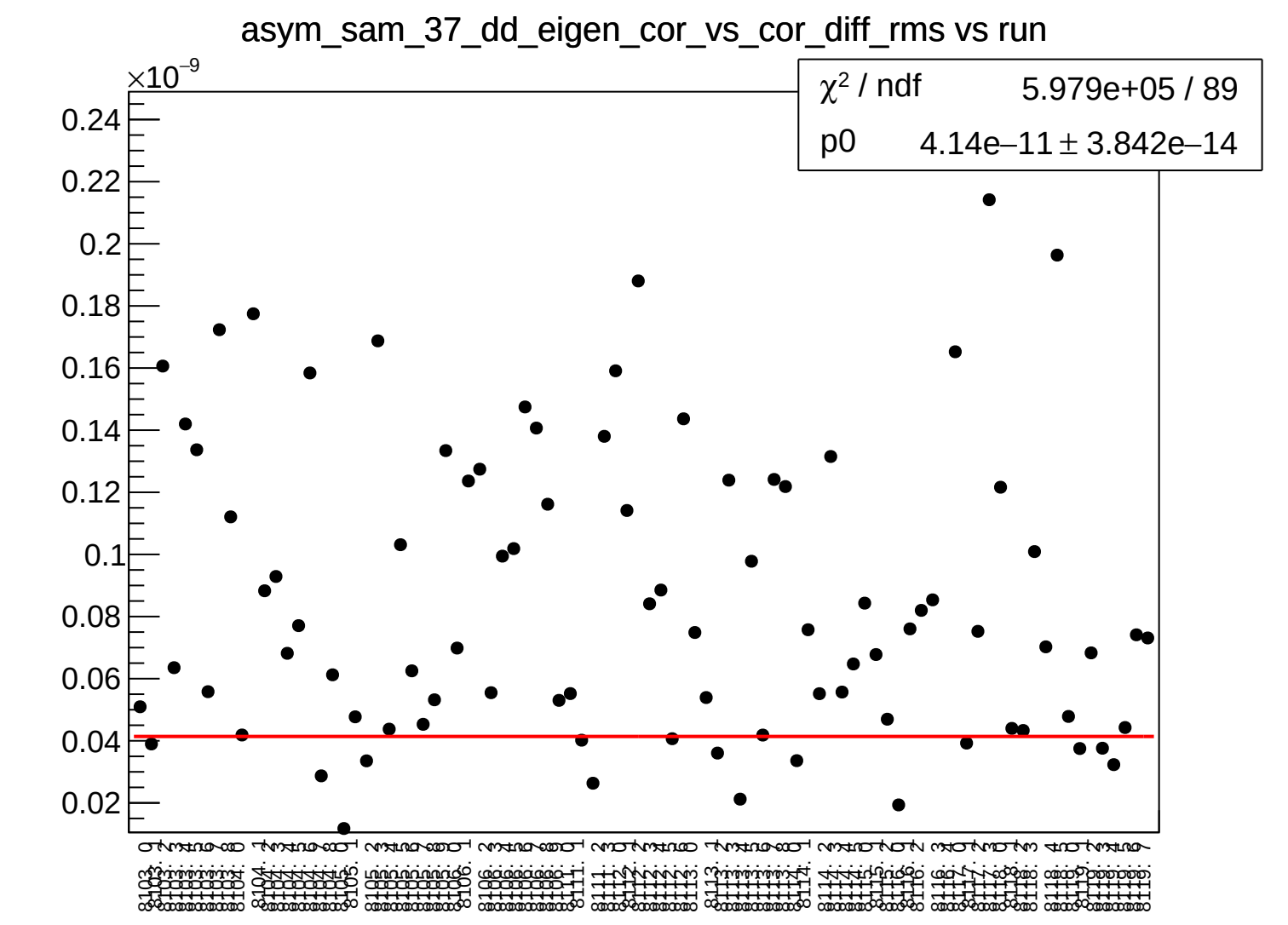

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.723e+04 / 89
p0 35.6 ± 0.02762
70
60
50
40
30
20

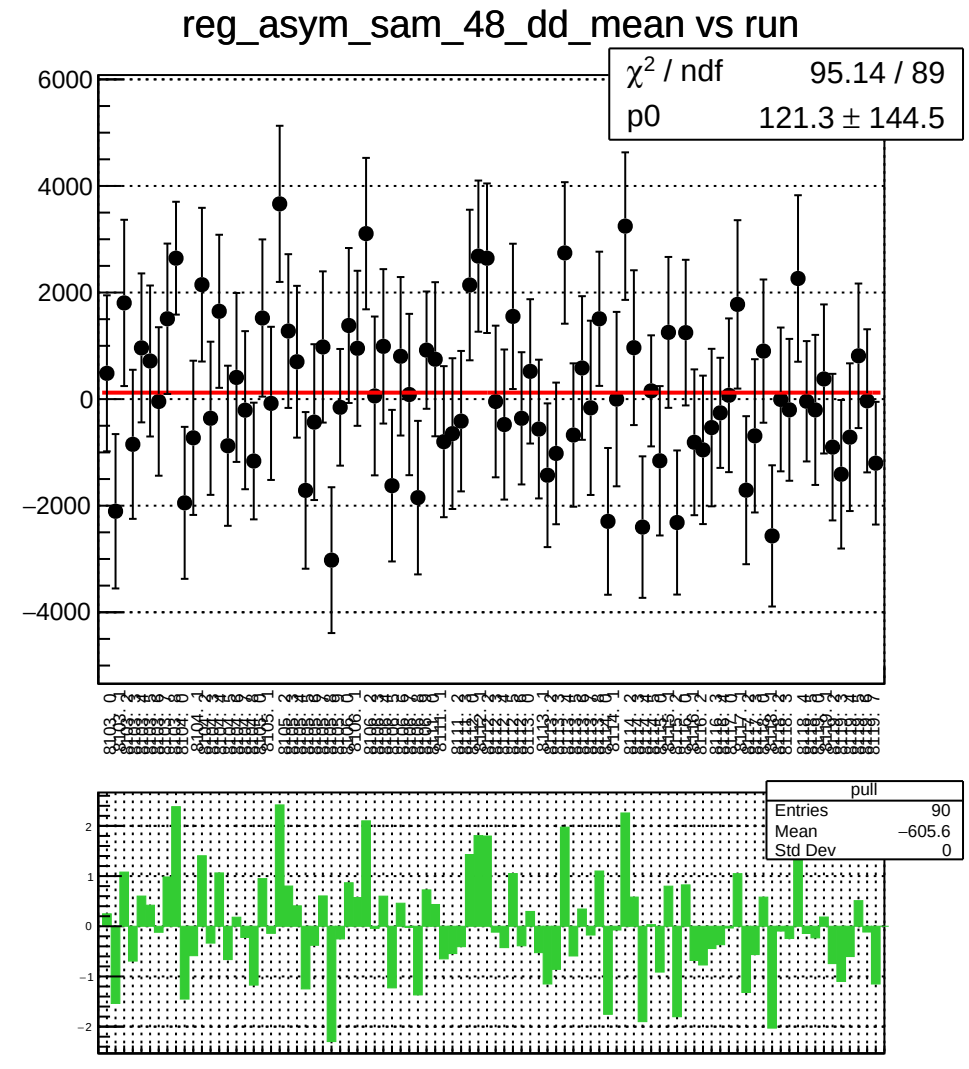

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.73 / 89
p0 0.06444 ± 0.03906
pull
Entries 90
Mean −164.4
Std Dev 0

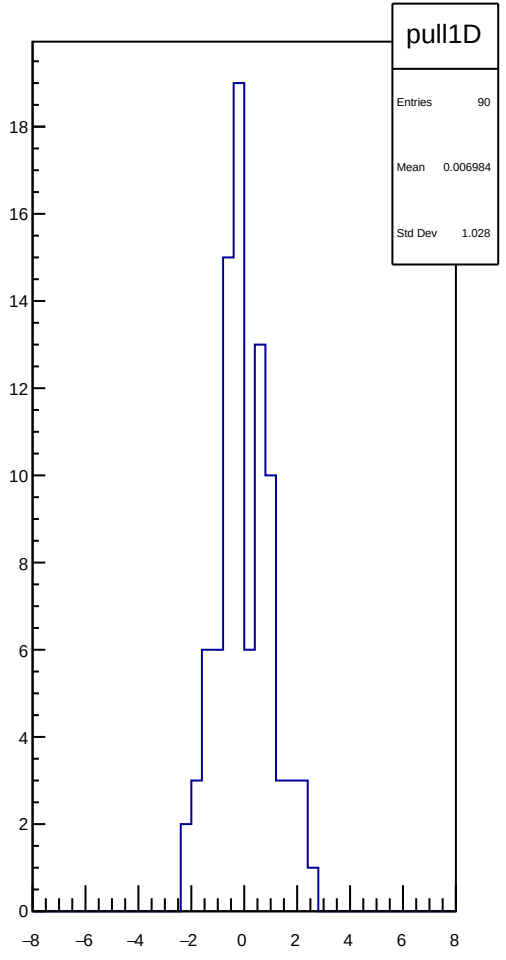

pull1D
Entries 90
Mean −0.01922
Std Dev 0.8609

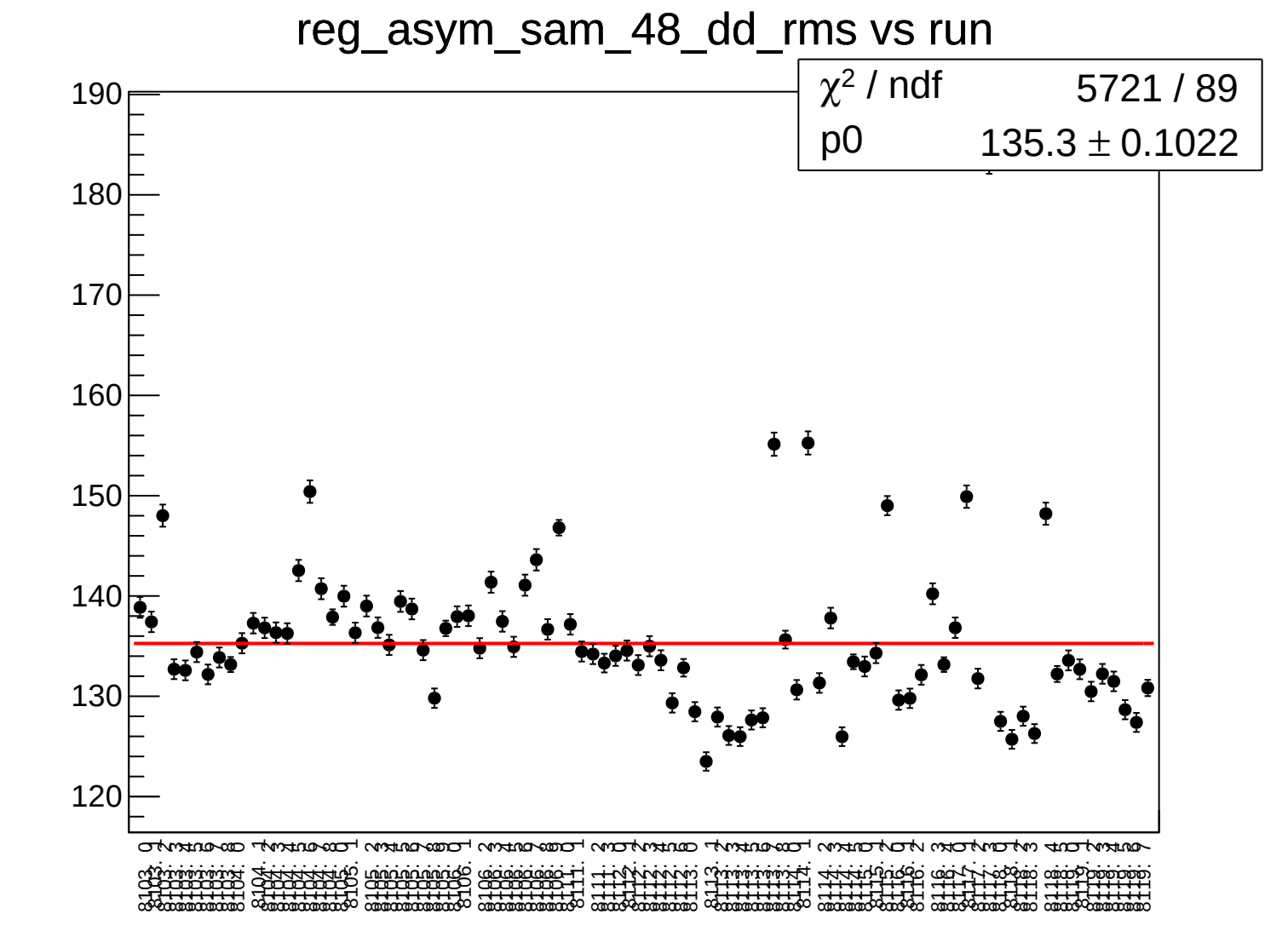

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.723e+04 / 89
p0 35.6 ± 0.02762
70
60
50
40
30
20

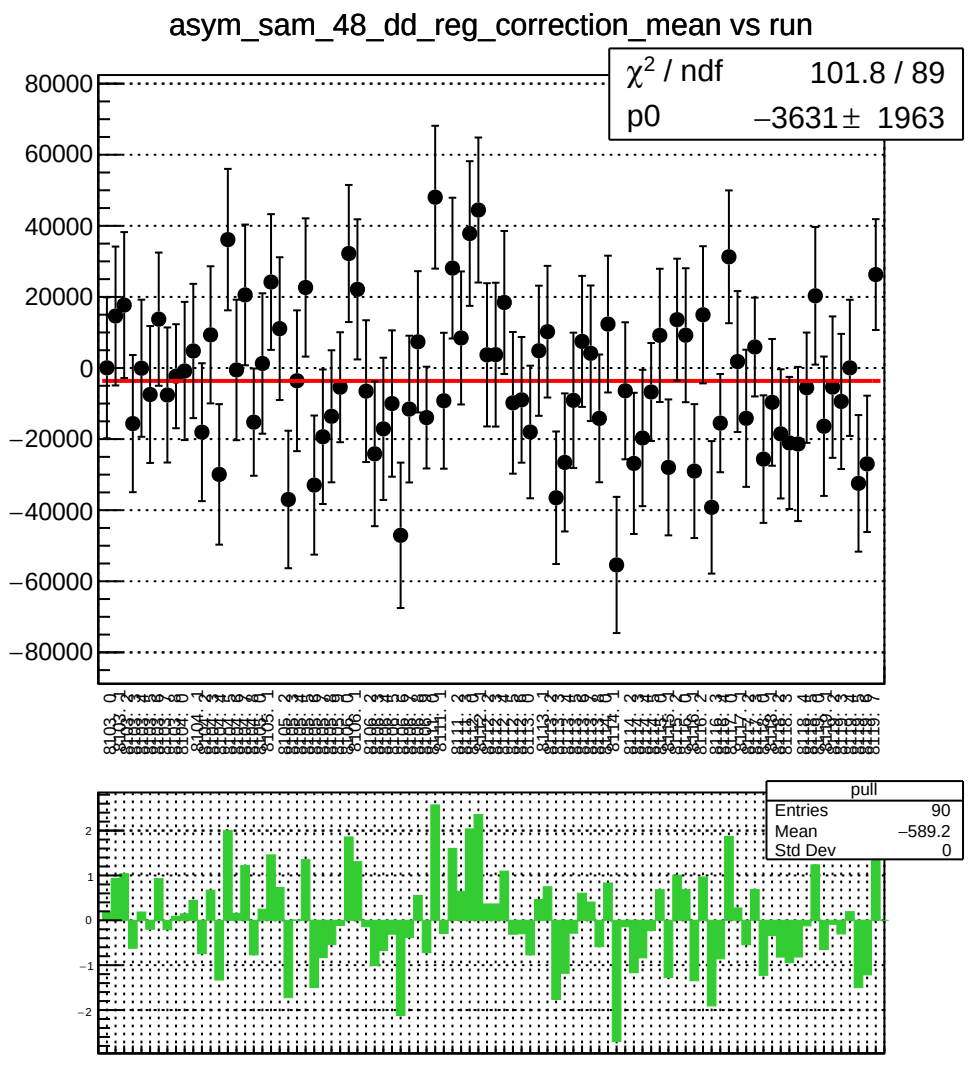

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.61 / 89
p0 2.2e−14 ± 5.434e−14
pull
Entries 90
Mean 61.75
Std Dev 0
pull1D
Entries 90
Mean −0.05002
Std Dev 0.9152

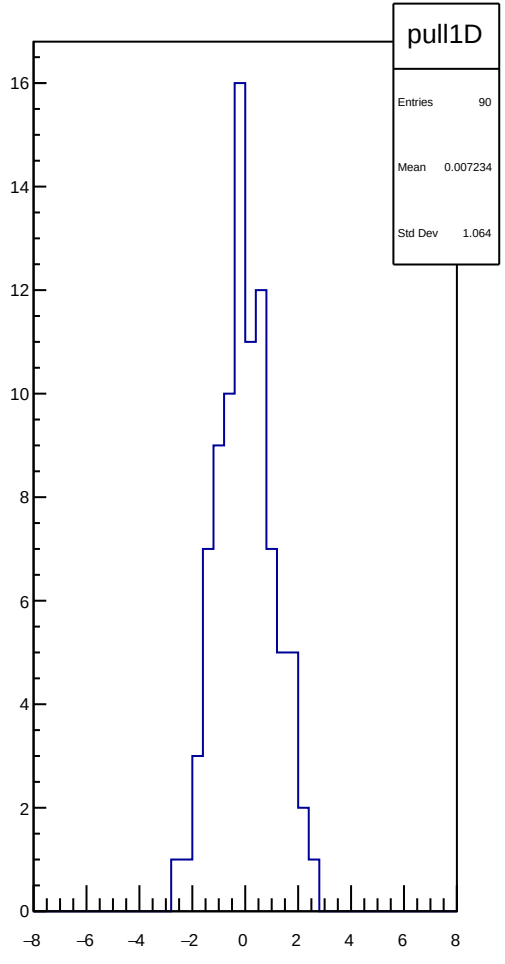

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.979e+05 / 89
p0 4.14e−11 ± 3.842e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

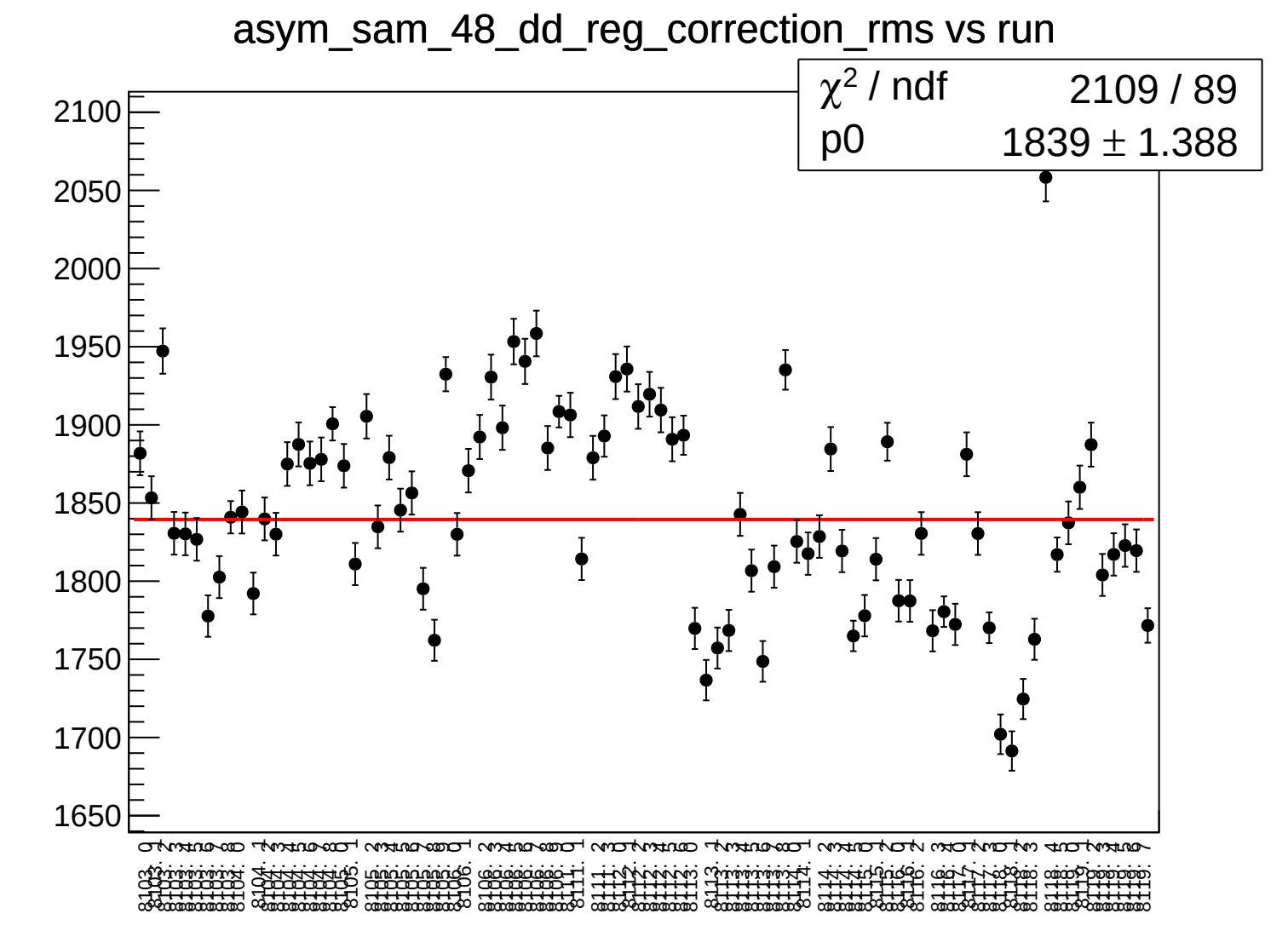

reg_asym_sam_48_dd_mean vs run
χ² / ndf 95.14 / 89
p0 121.3 ± 144.5
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −605.6
Std Dev 0
2
1
0
−1
−2

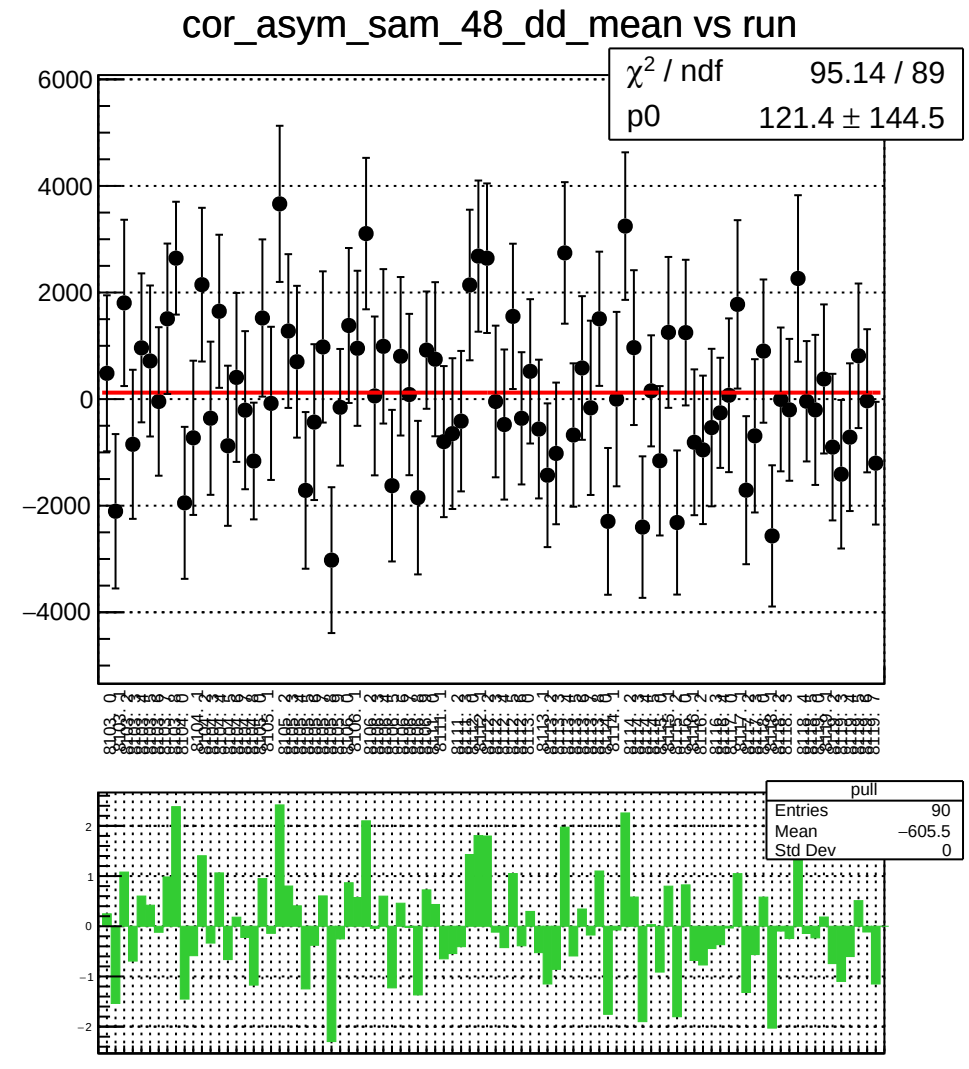

pull1D
Entries 90
Mean 0.006984
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

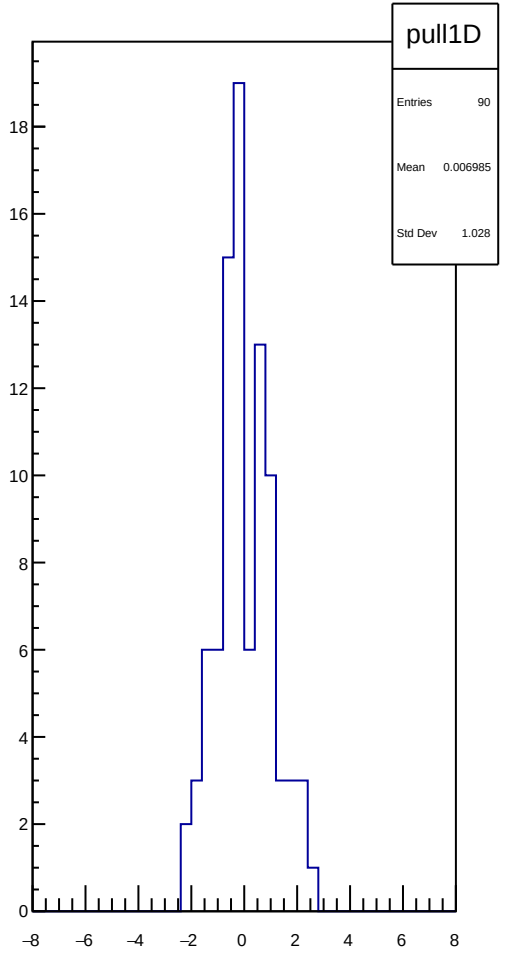

reg_asym_sam_48_dd_rms vs run
χ² / ndf 5721 / 89
p0 135.3 ± 0.1022
190
180
170
160
150
140
130
120

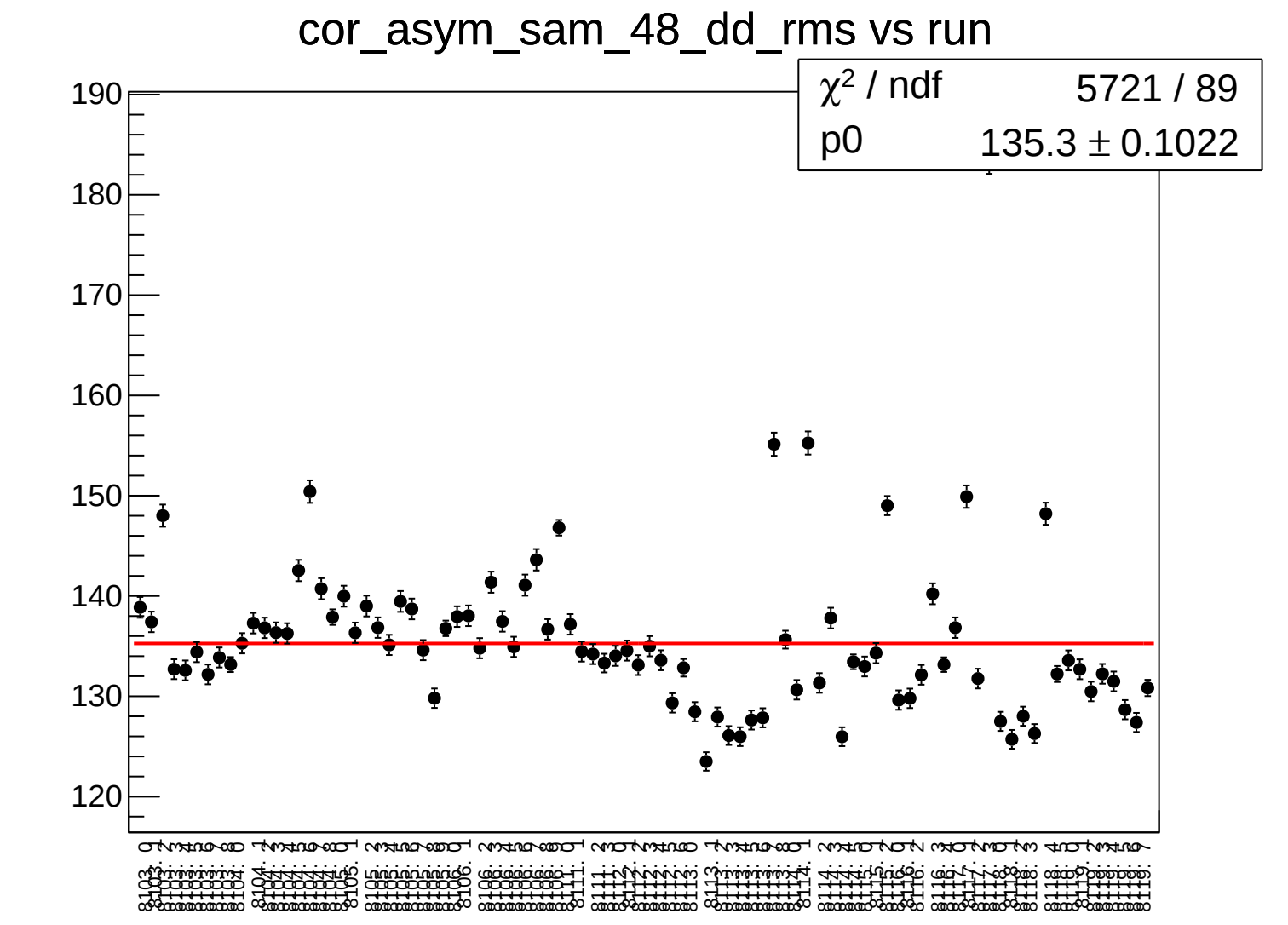

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 101.8 / 89
p0 −3631 ± 1963
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −589.2
Std Dev 0
2
1
0
−1
−2

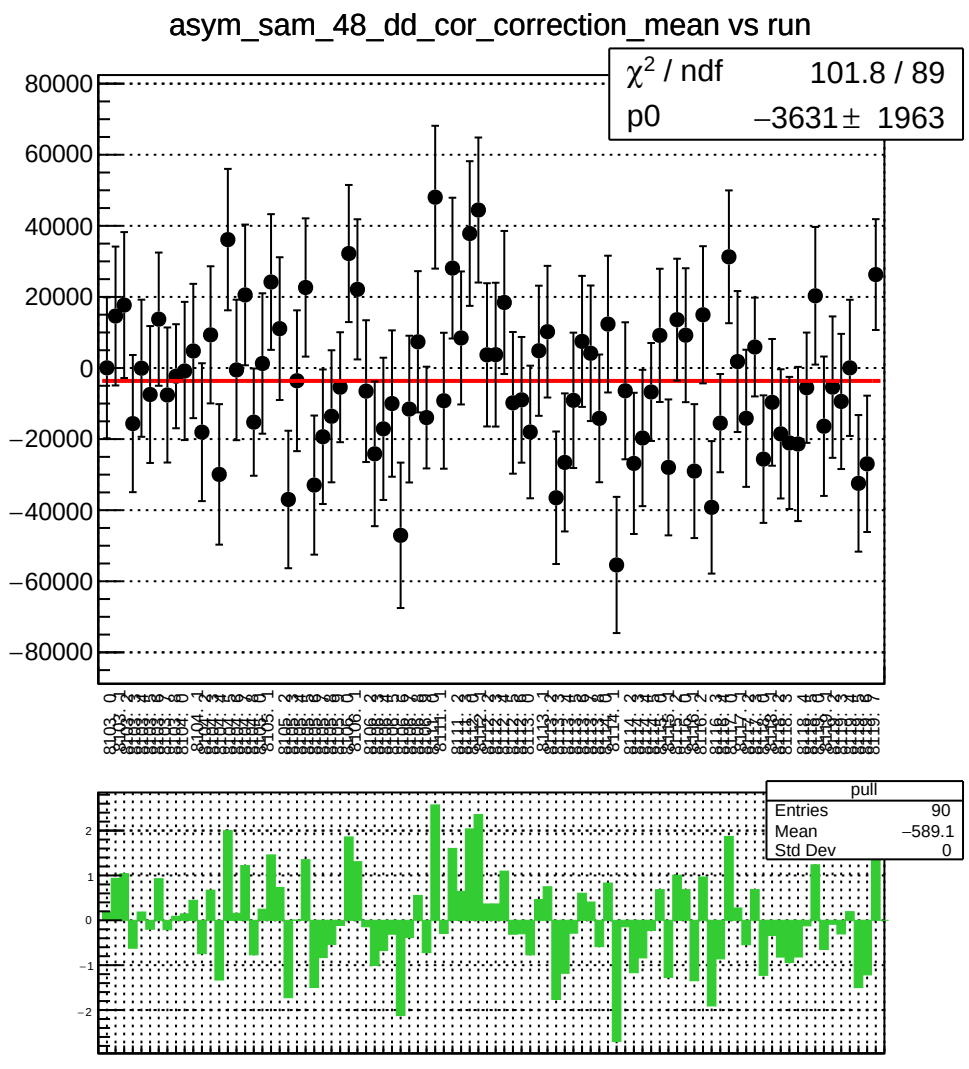

pull1D
Entries 90
Mean 0.007234
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

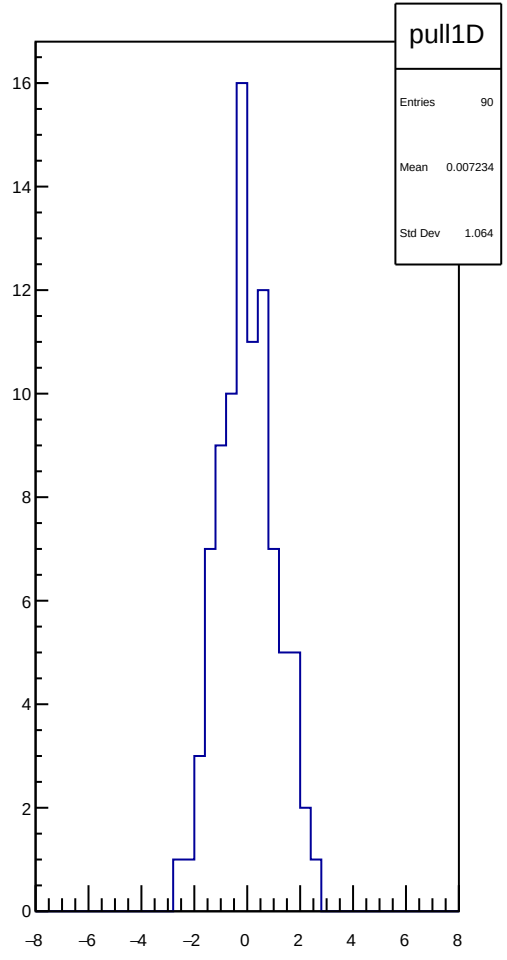

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2109 / 89
p0 1839 ± 1.388
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

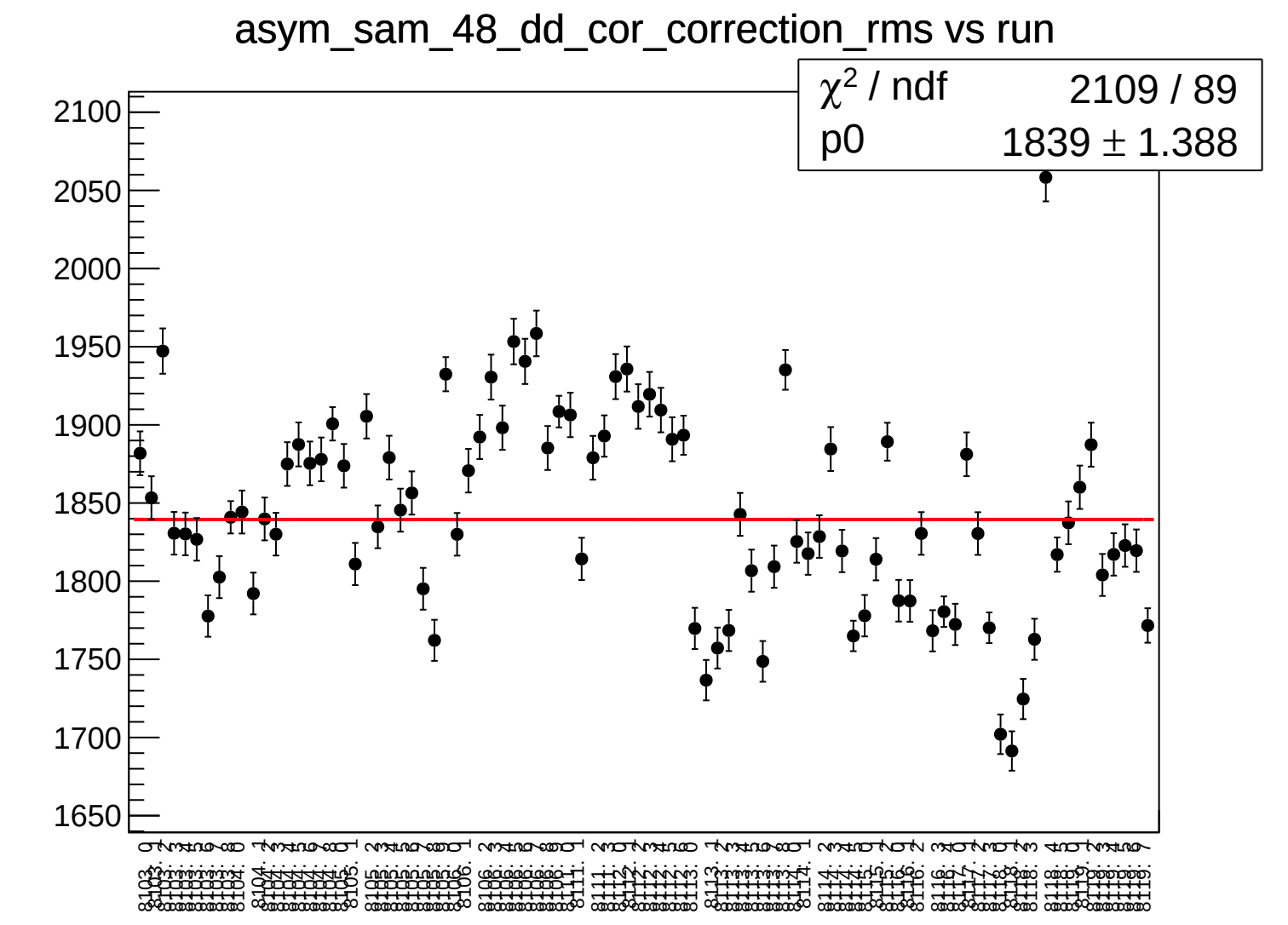

cor_asym_sam_48_dd_mean vs run
χ² / ndf 95.14 / 89
p0 121.4 ± 144.5
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −605.5
Std Dev 0
2
1
0
−1
−2

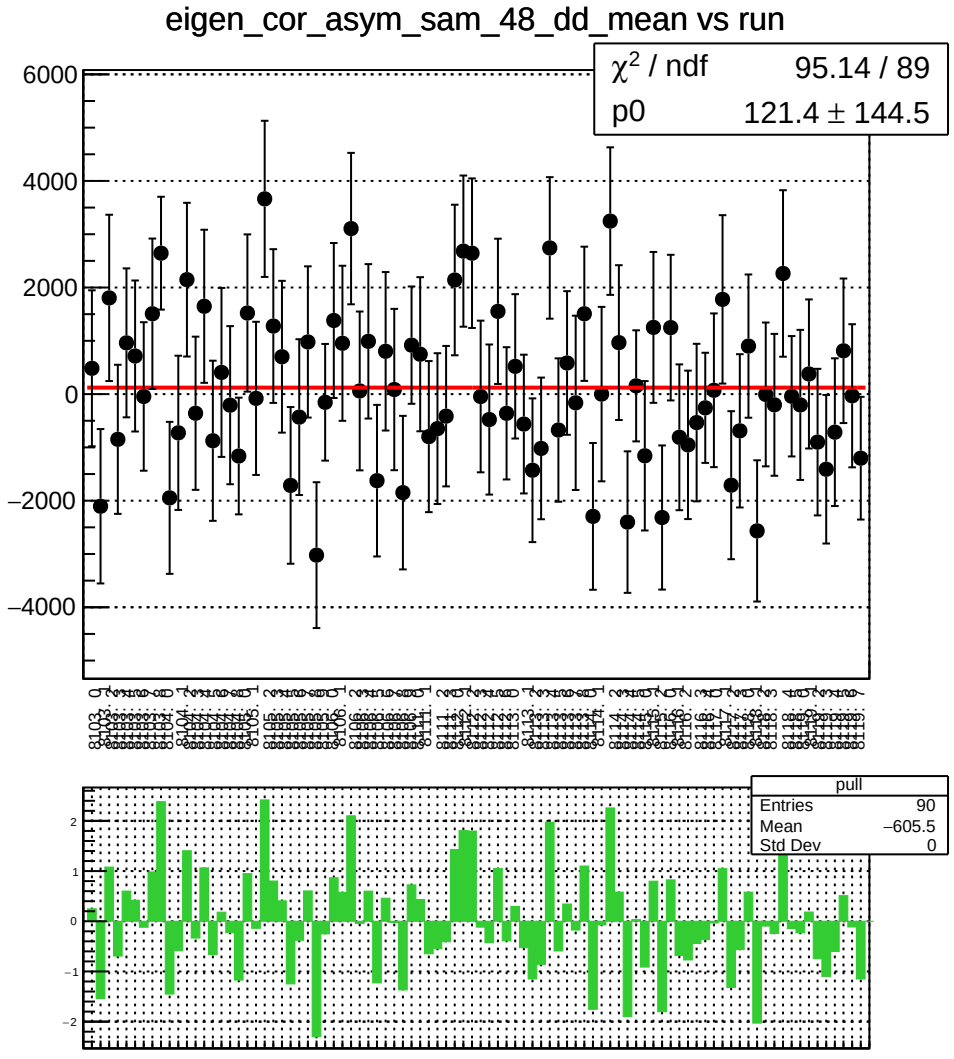

pull1D
Entries 90
Mean 0.006985
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

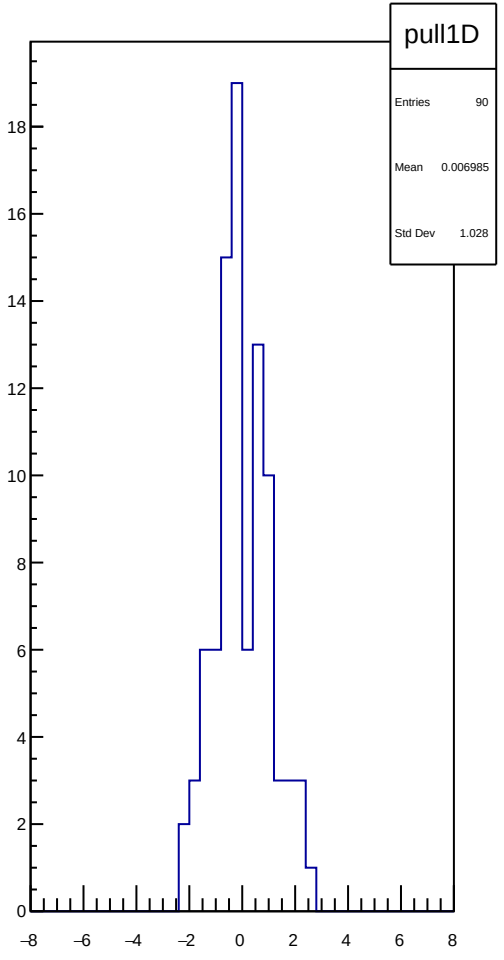

cor_asym_sam_48_dd_rms vs run
χ² / ndf 5721 / 89
p0 135.3 ± 0.1022
190
180
170
160
150
140
130
120

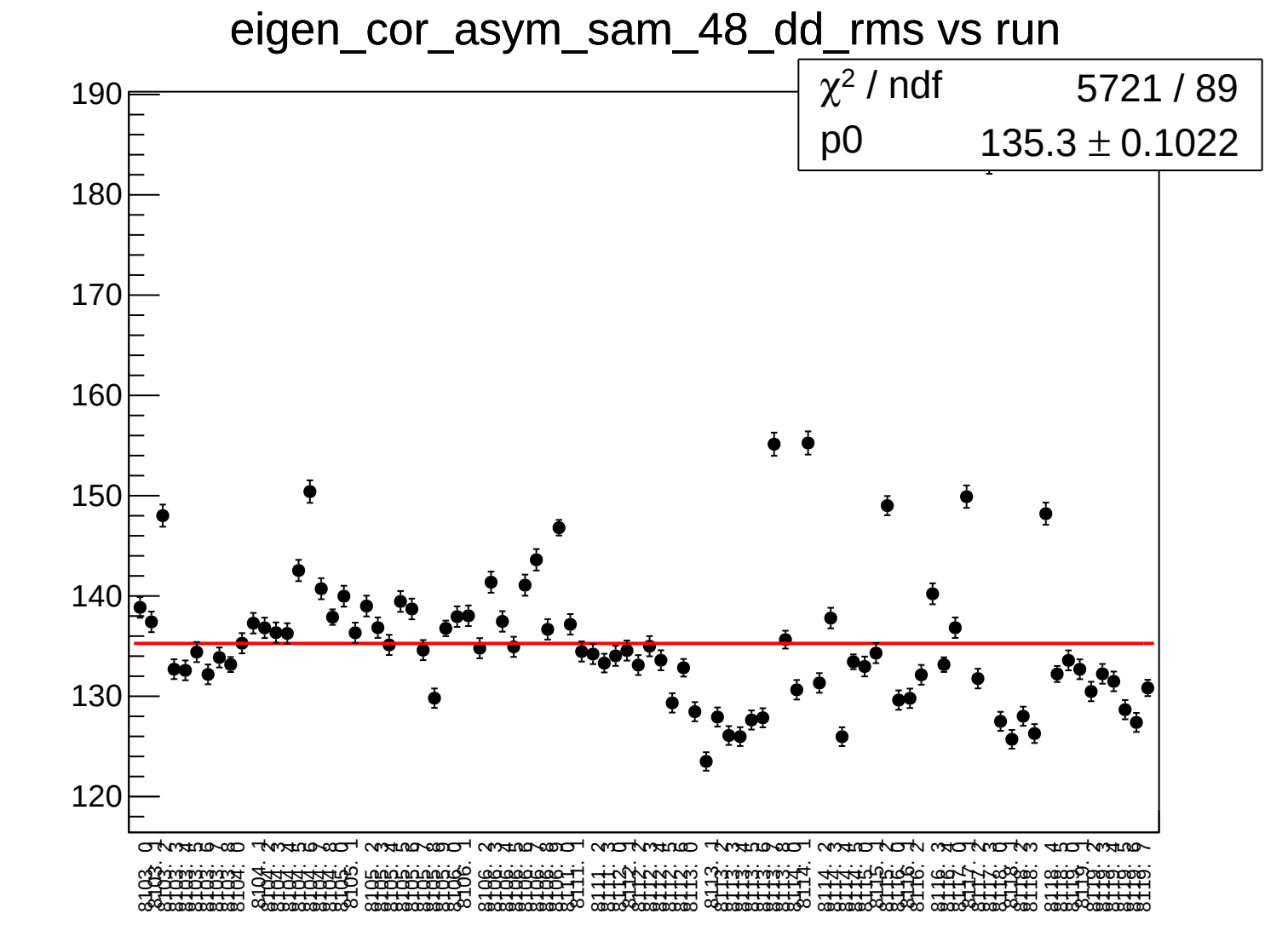

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 101.8 / 89
p0 −3631 ± 1963
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −589.1
Std Dev 0
2
1
0
−1
−2

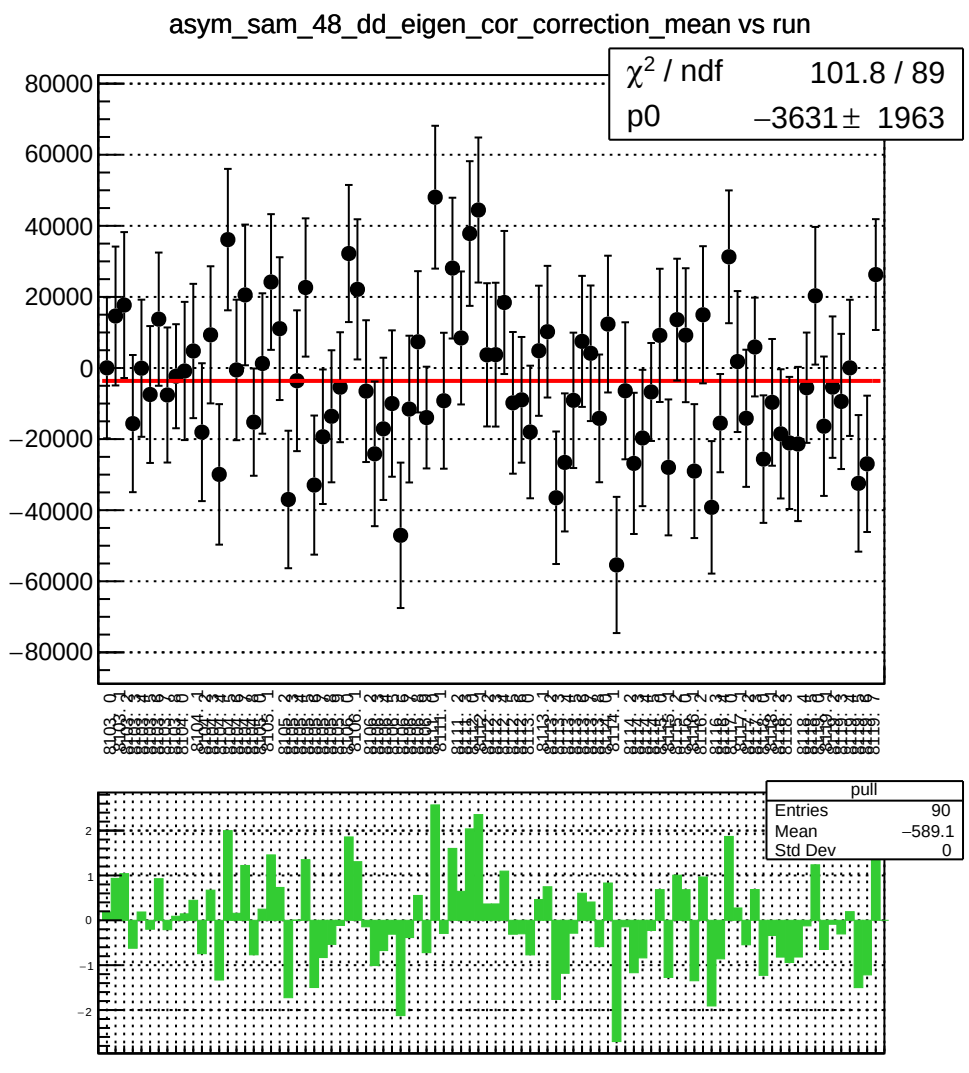

pull1D
Entries 90
Mean 0.007234
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

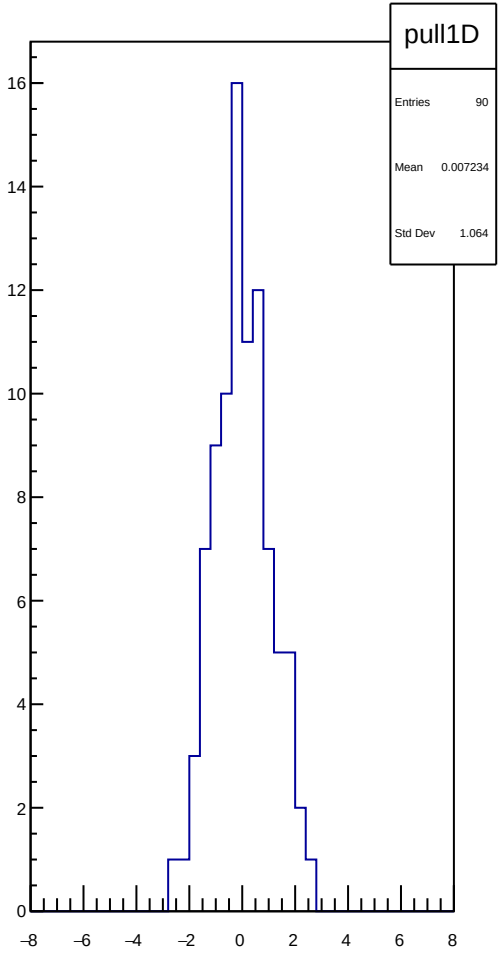

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 2109 / 89
p0 1839 ± 1.388
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

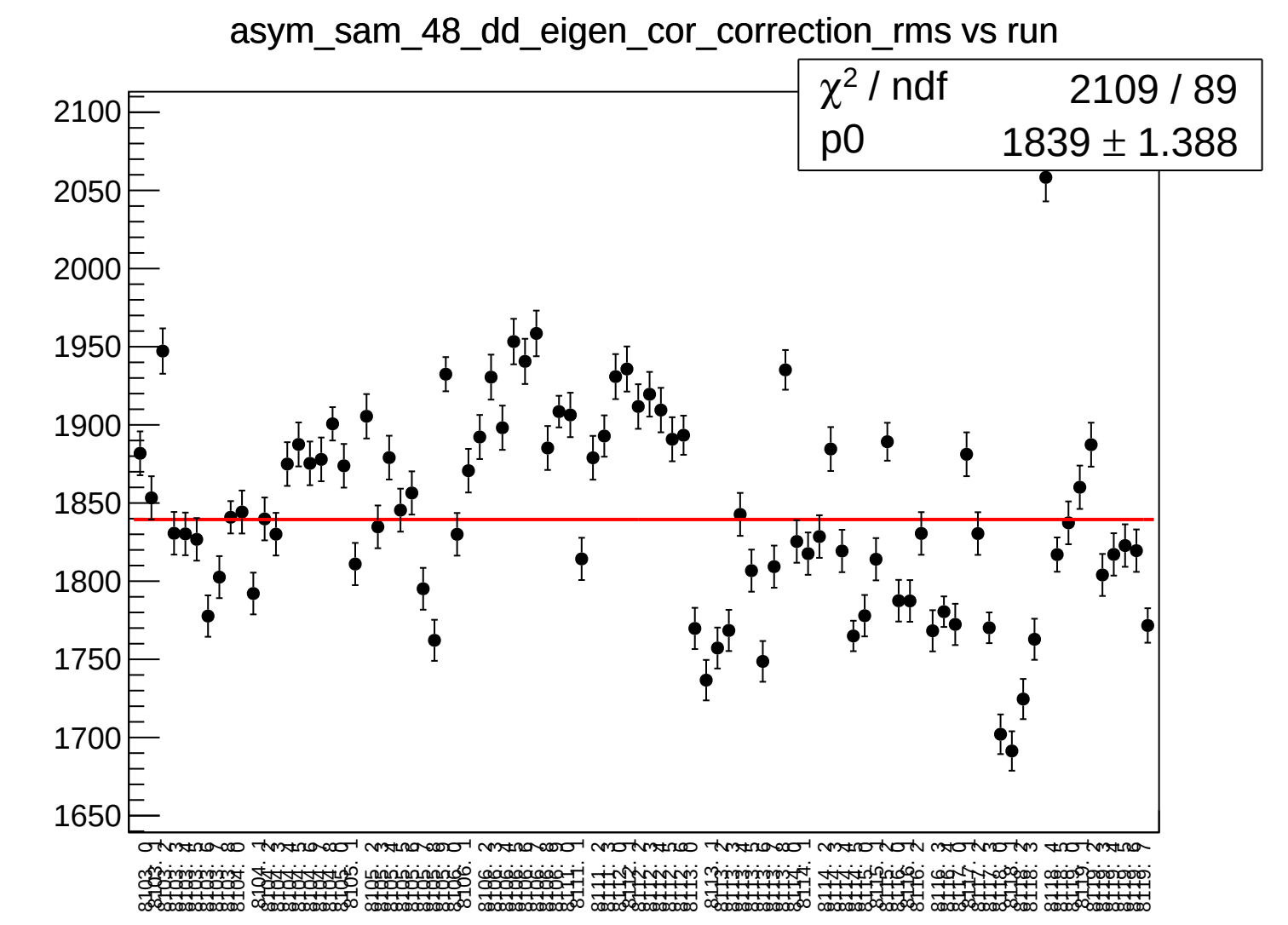

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 95.14 / 89
p0 121.4 ± 144.5
pull
Entries 90
Mean −605.5
Std Dev 0

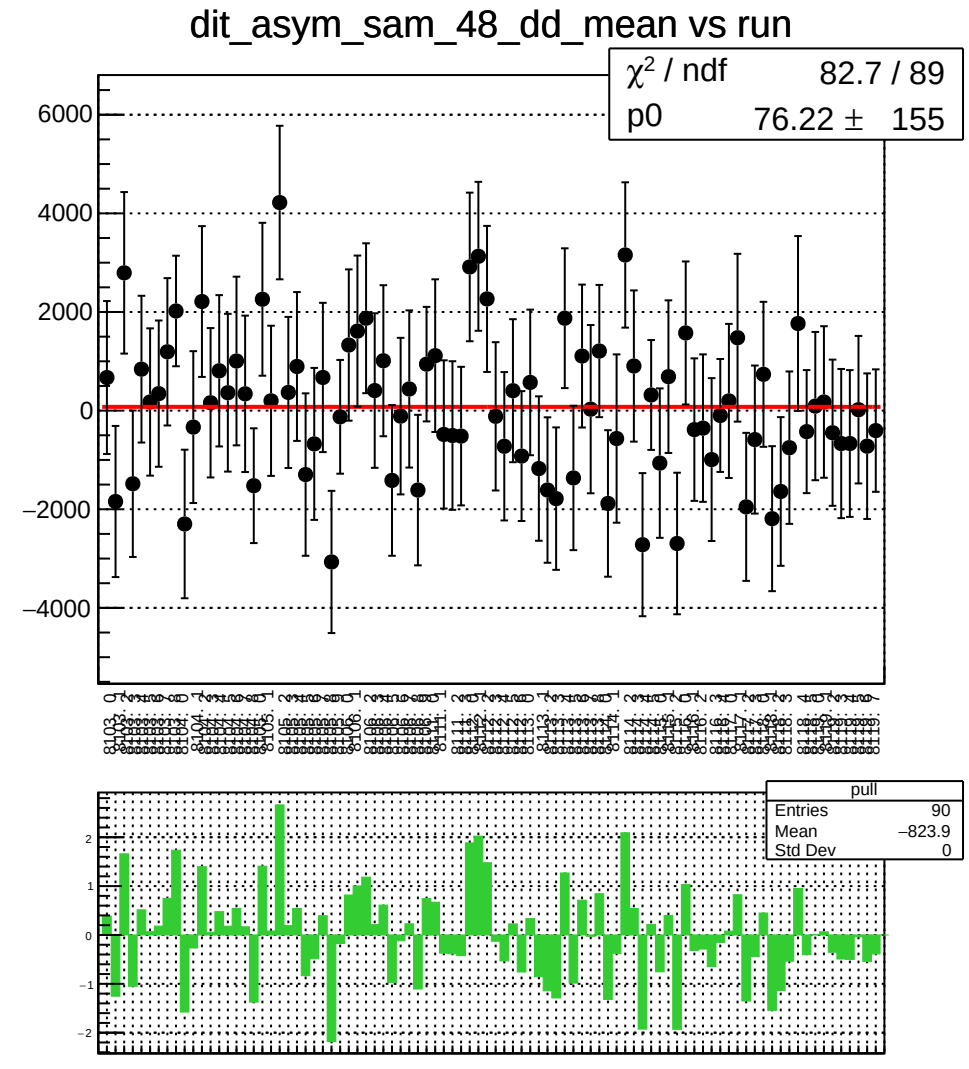

pull1D
Entries 90
Mean 0.006985
Std Dev 1.028

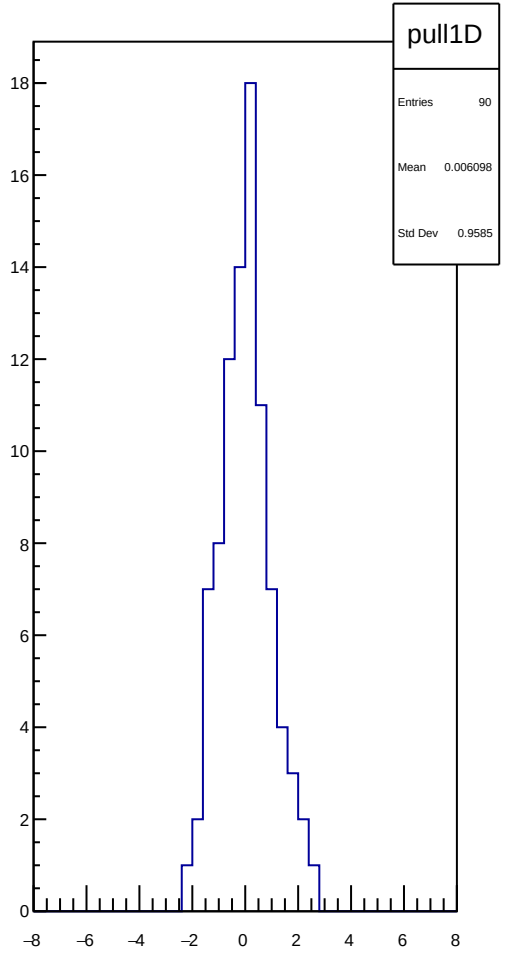

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 5721 / 89
p0 135.3 ± 0.1022
190
180
170
160
150
140
130
120

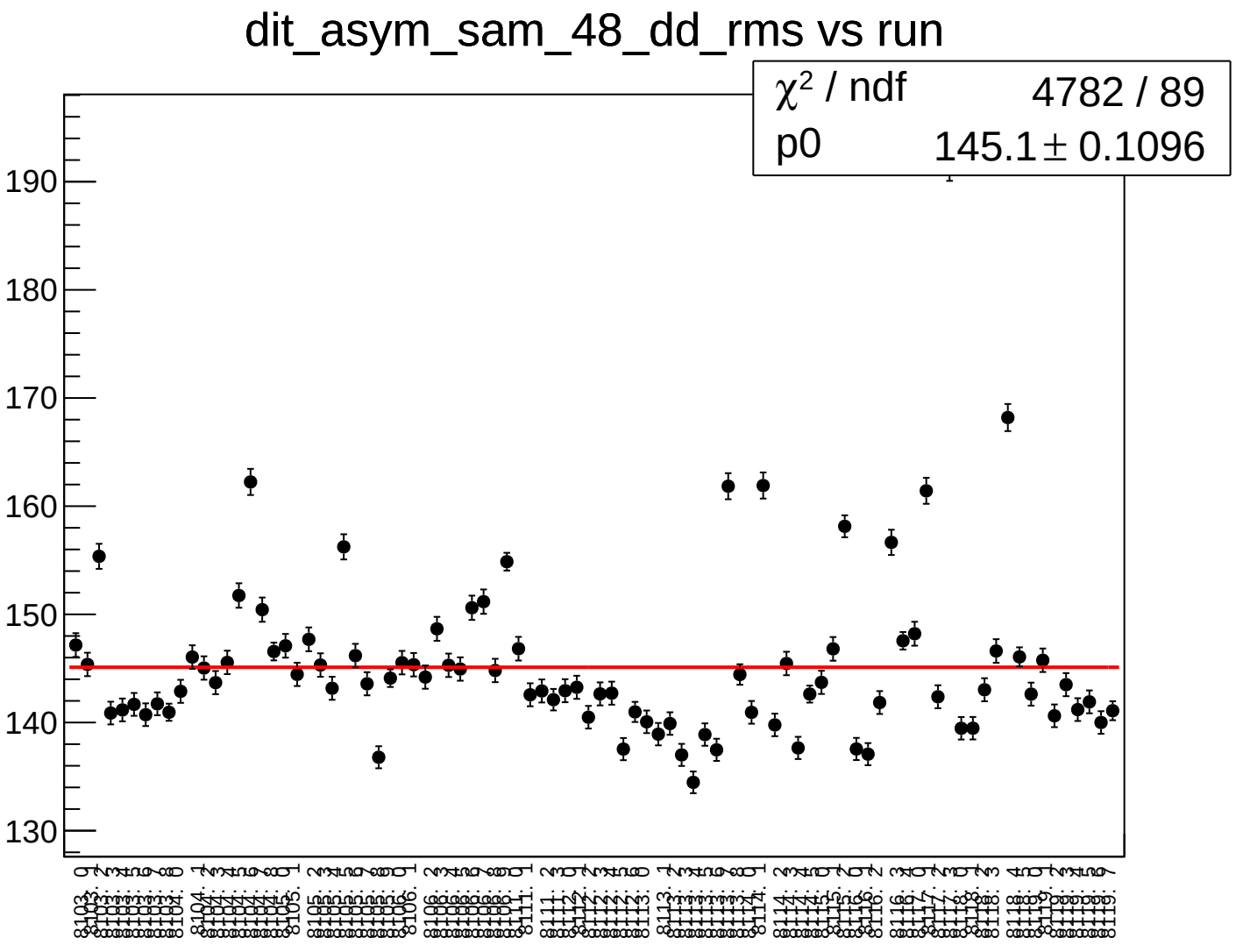

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.8 / 89
p0 −3631 ± 1963
pull
Entries 90
Mean −589.1
Std Dev 0

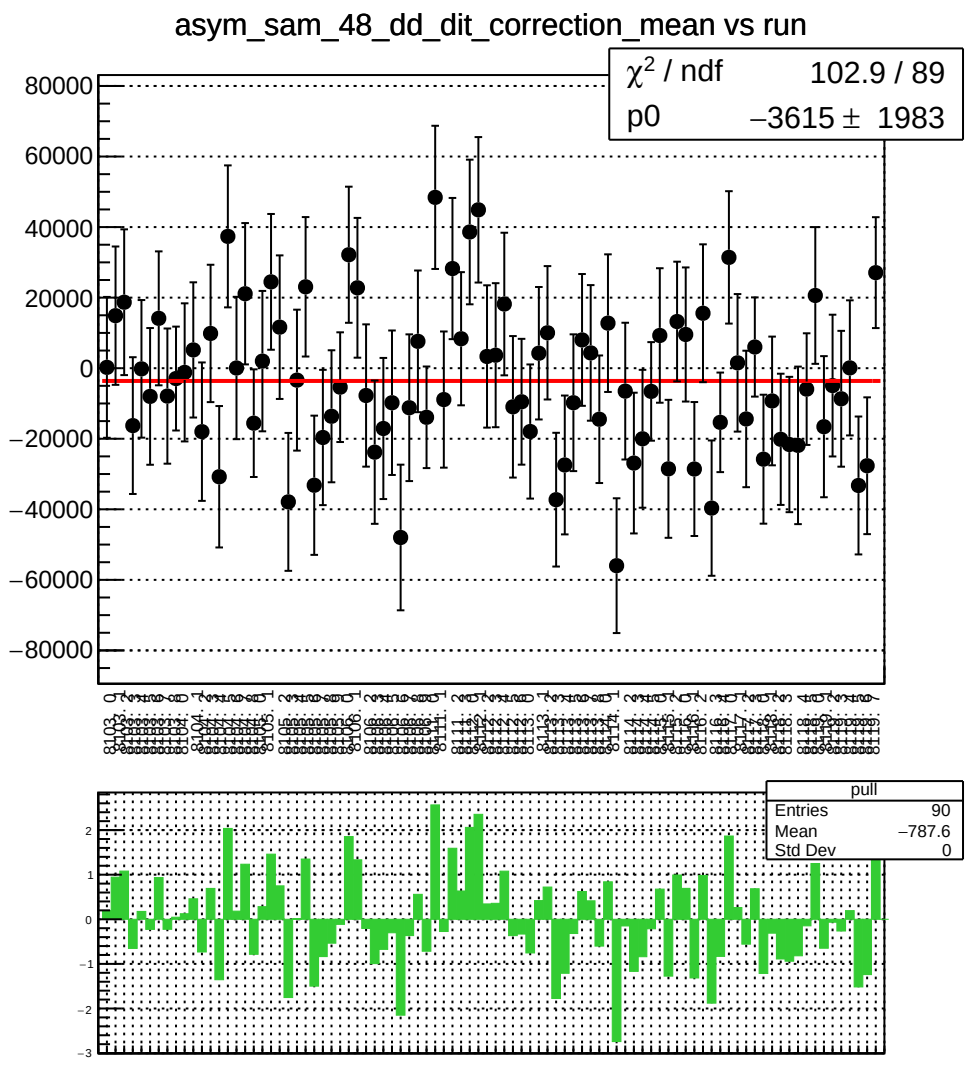

pull1D
Entries 90
Mean 0.007234
Std Dev 1.064

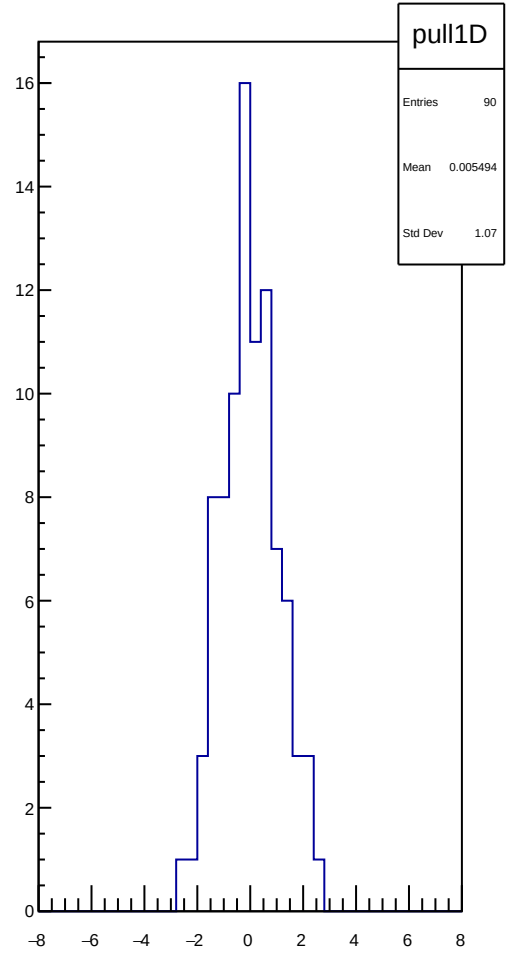

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2109 / 89
p0 1839 ± 1.388
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

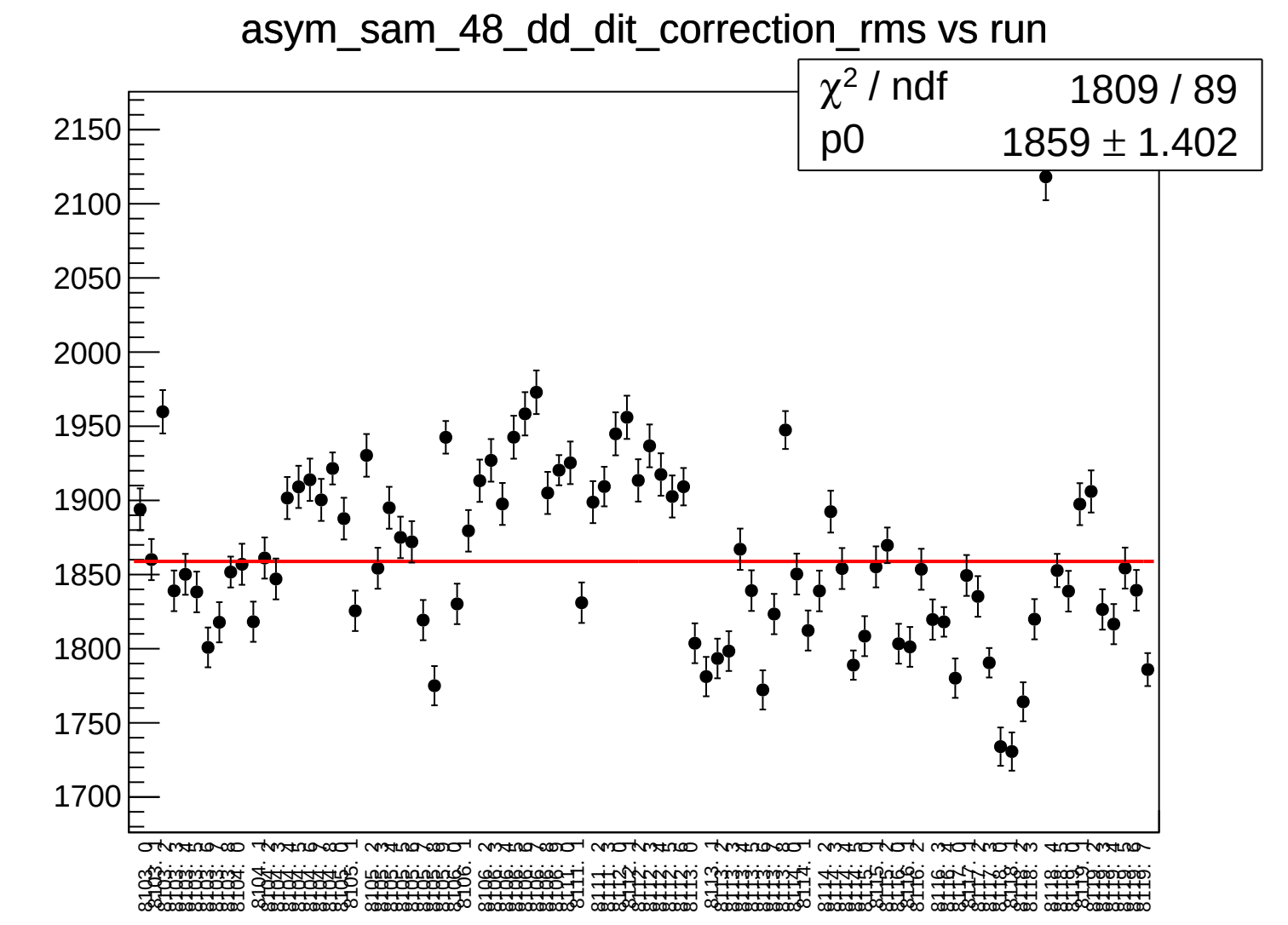

dit_asym_sam_48_dd_mean vs run
χ² / ndf 82.7 / 89
p0 76.22 ± 155
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −823.9
Std Dev 0
2
1
0
−1
−2

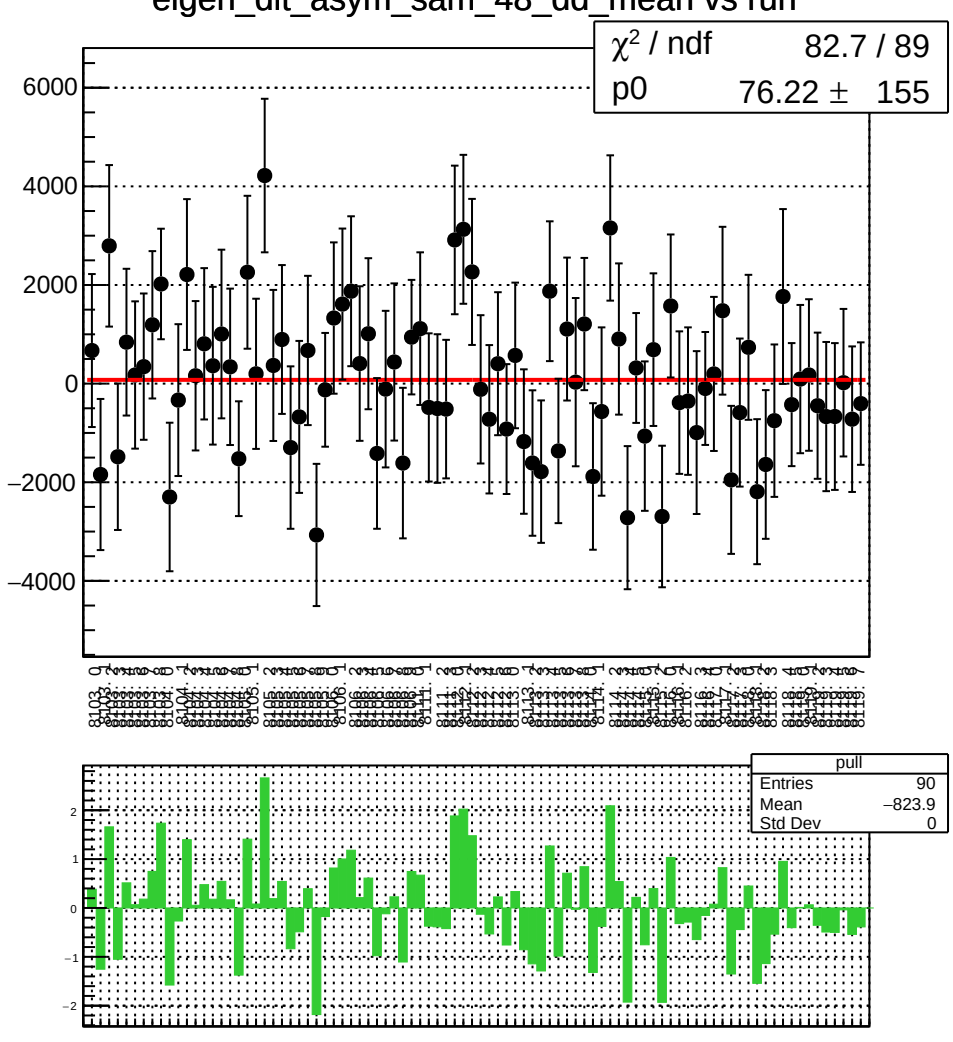

pull1D
Entries 90
Mean 0.006098
Std Dev 0.9585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

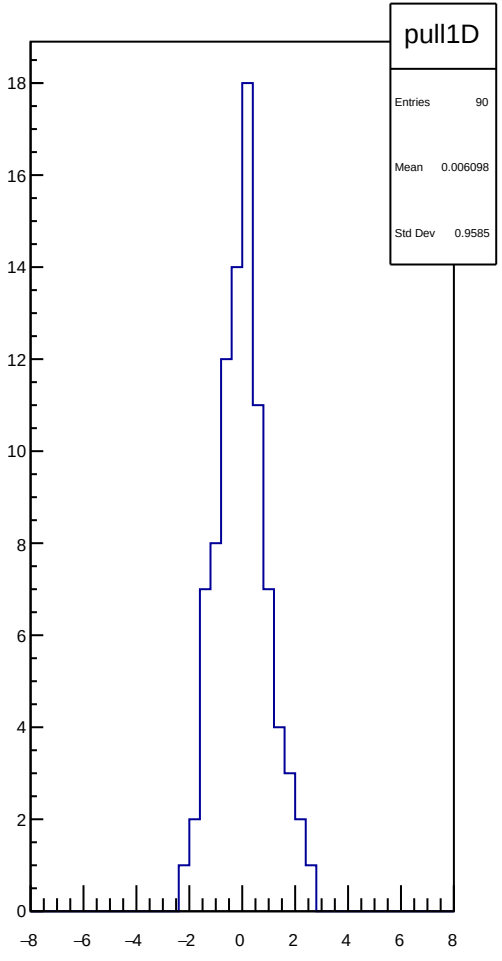

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4782 / 89
p0 145.1 ± 0.1096
190
180
170
160
150
140
130

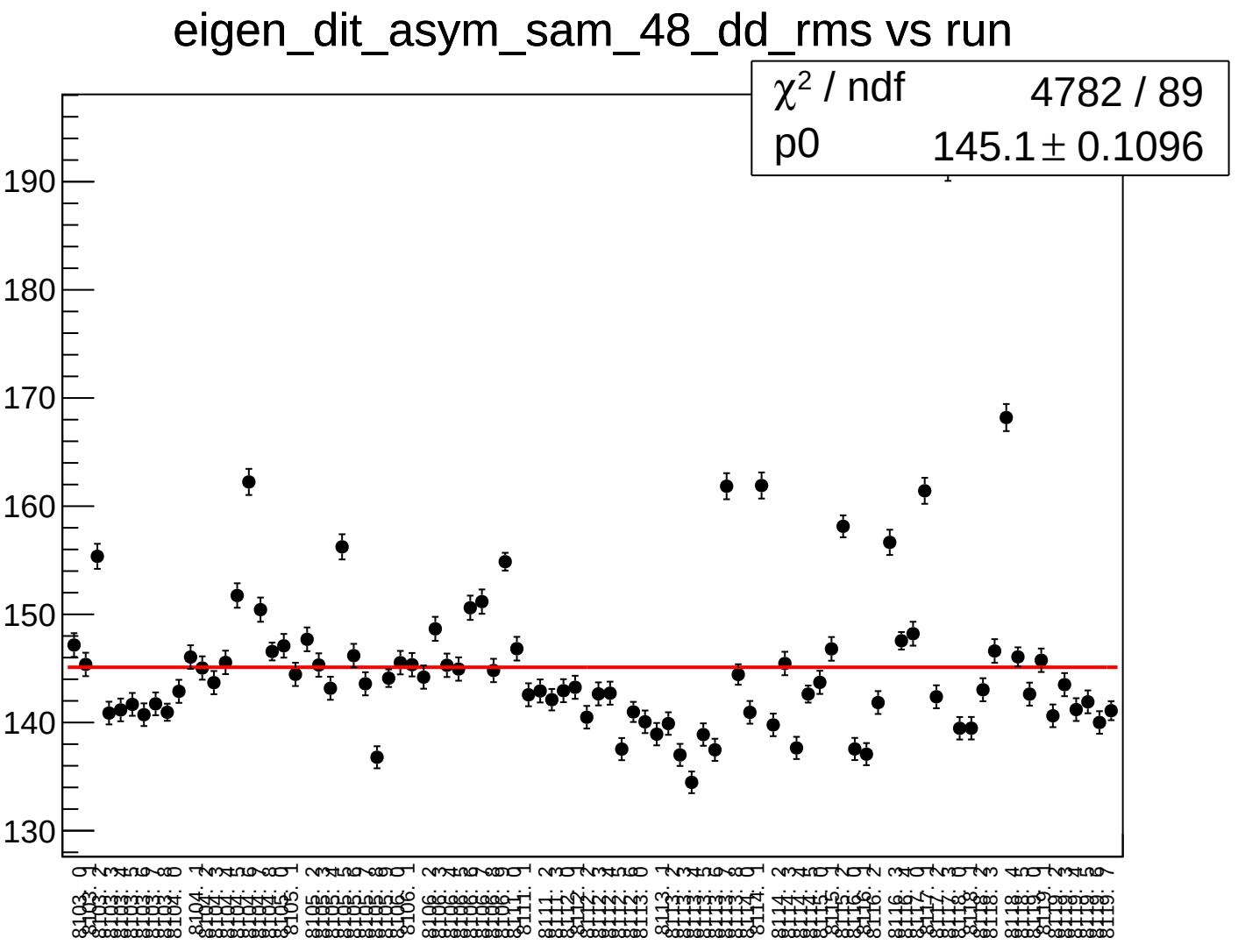

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 102.9 / 89
p0 −3615 ± 1983
pull
Entries 90
Mean −787.6
Std Dev 0

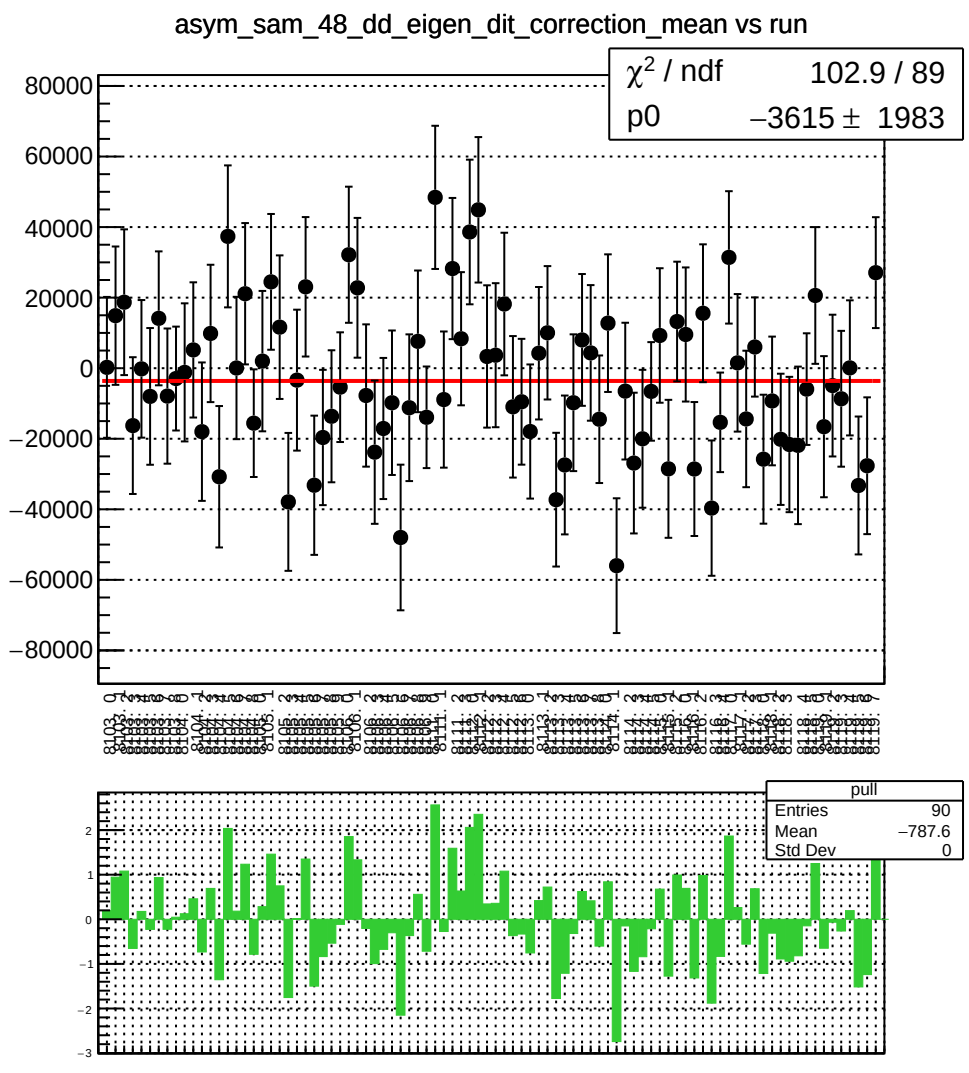

pull1D
Entries 90
Mean 0.005494
Std Dev 1.07

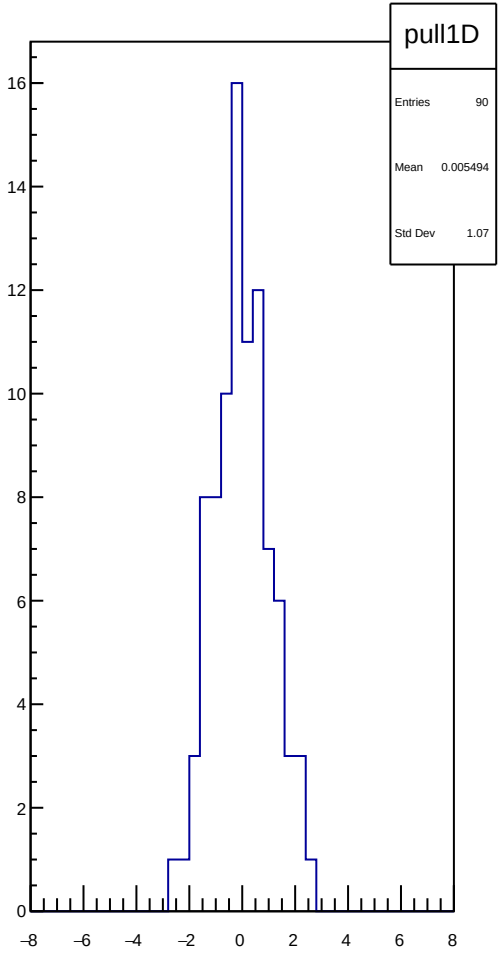

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1809 / 89
p0 1859 ± 1.402
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

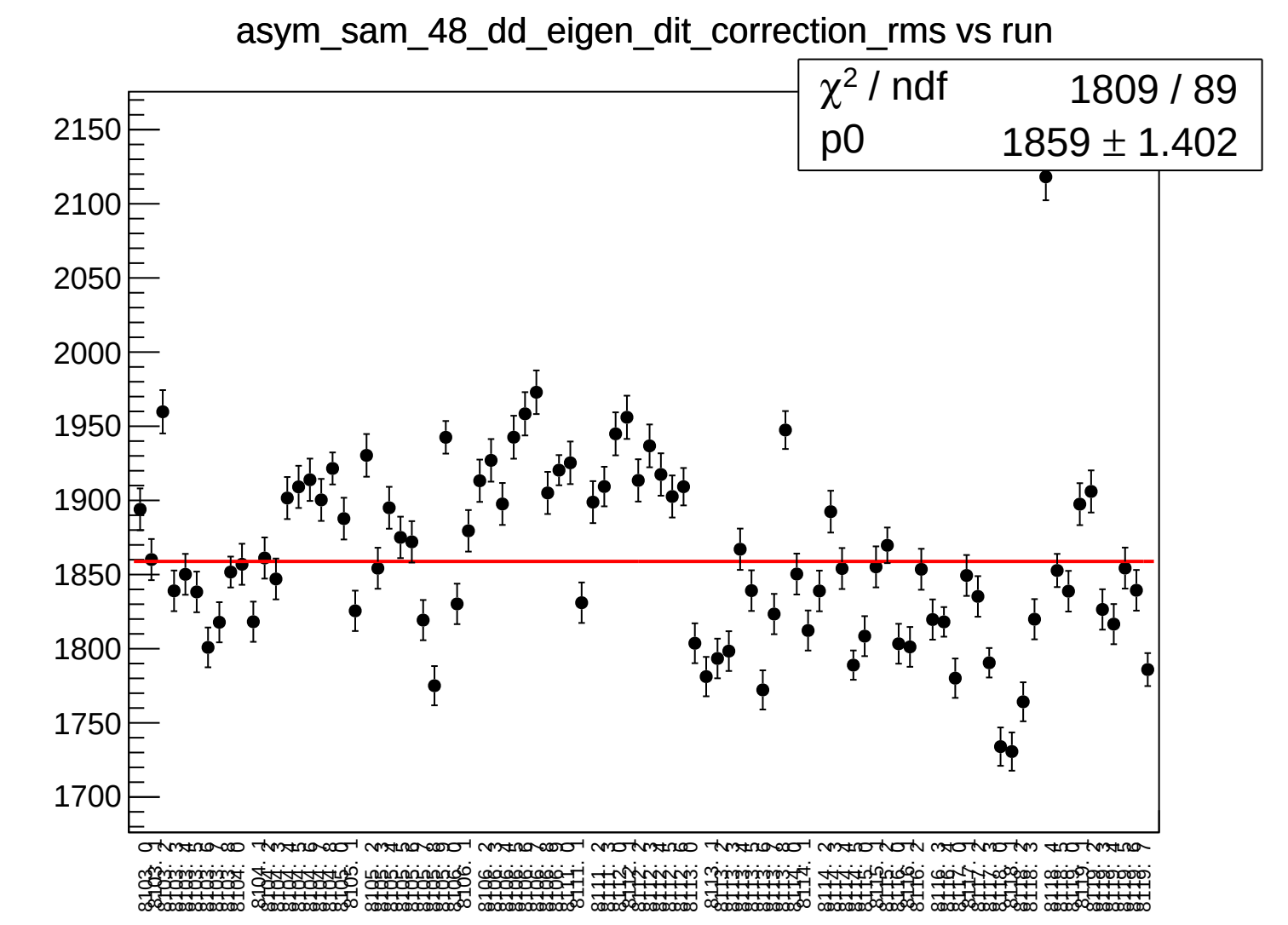

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 82.7 / 89
p0 76.22 ± 155
pull
Entries 90
Mean −823.9
Std Dev 0

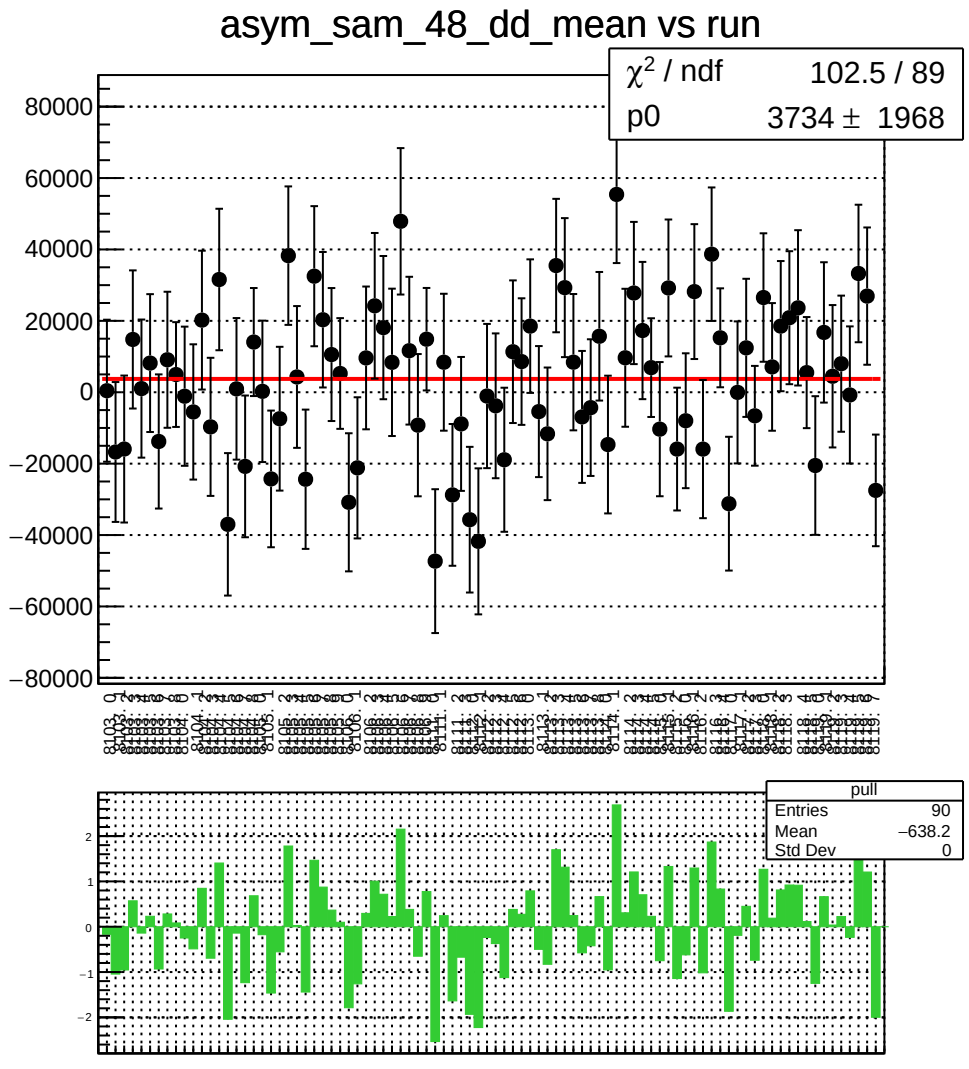

pull1D
Entries 90
Mean 0.006098
Std Dev 0.9585

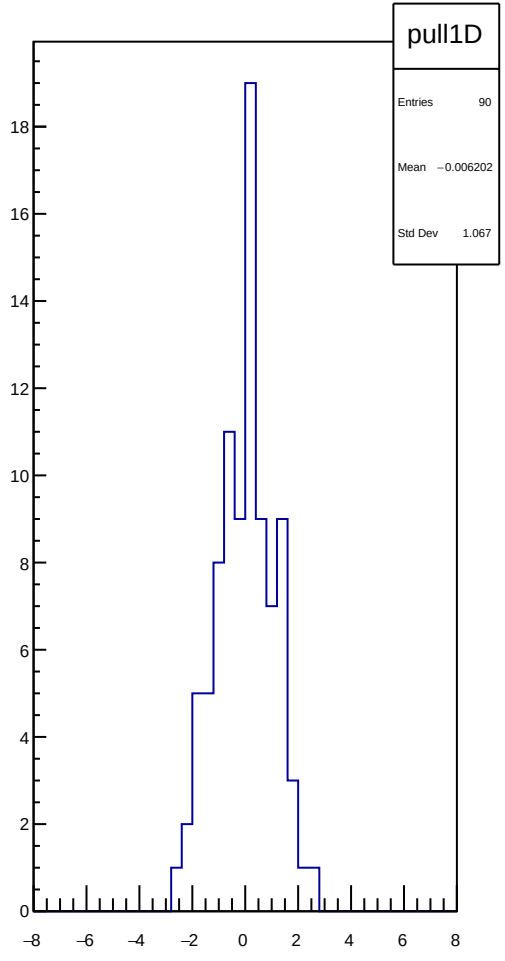

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 4782 / 89
p0 145.1 ± 0.1096
190
180
170
160
150
140
130

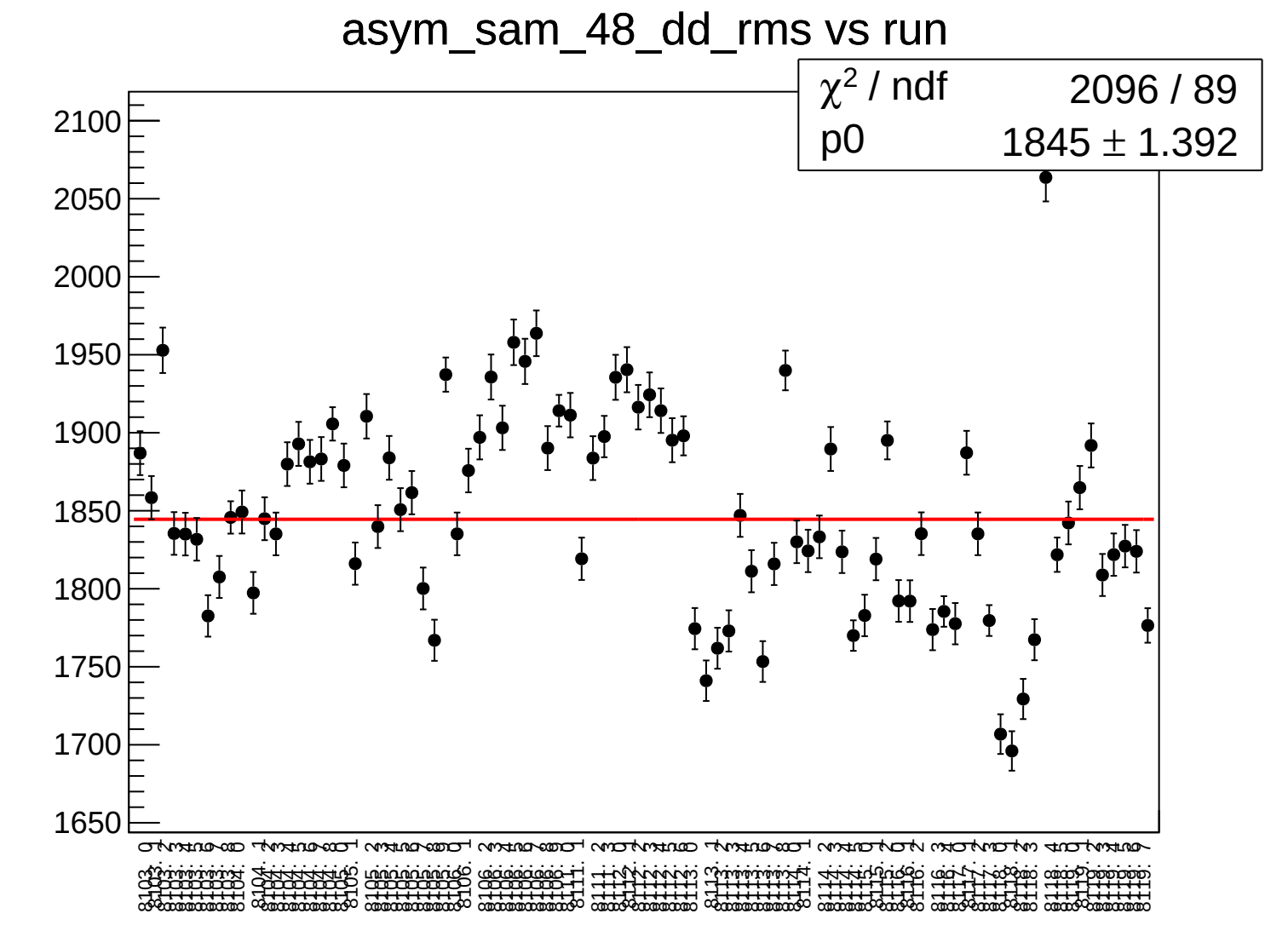

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.9 / 89
p0 −3615 ± 1983
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 90
Mean −787.6
Std Dev 0
2
1
0
−1
−2
−3

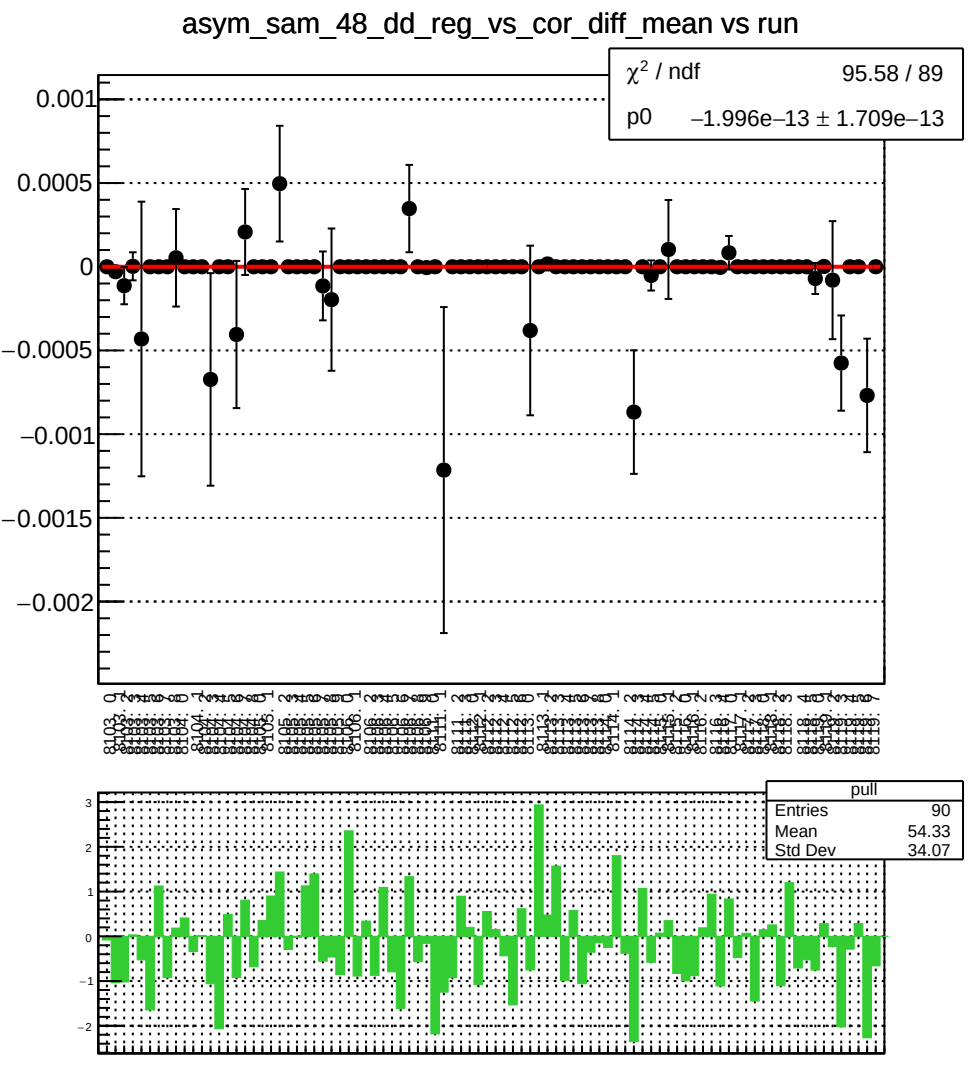

pull1D
Entries 90
Mean 0.005494
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

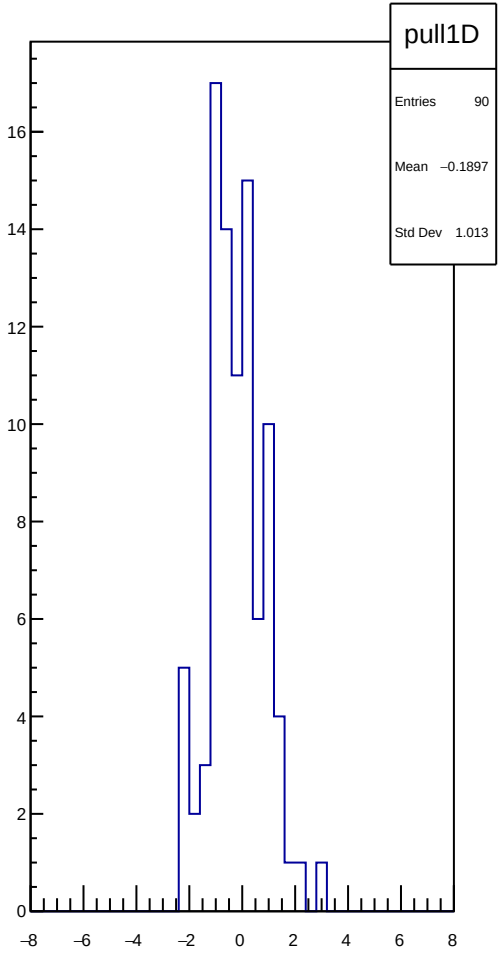

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1809 / 89
p0 1859 ± 1.402
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

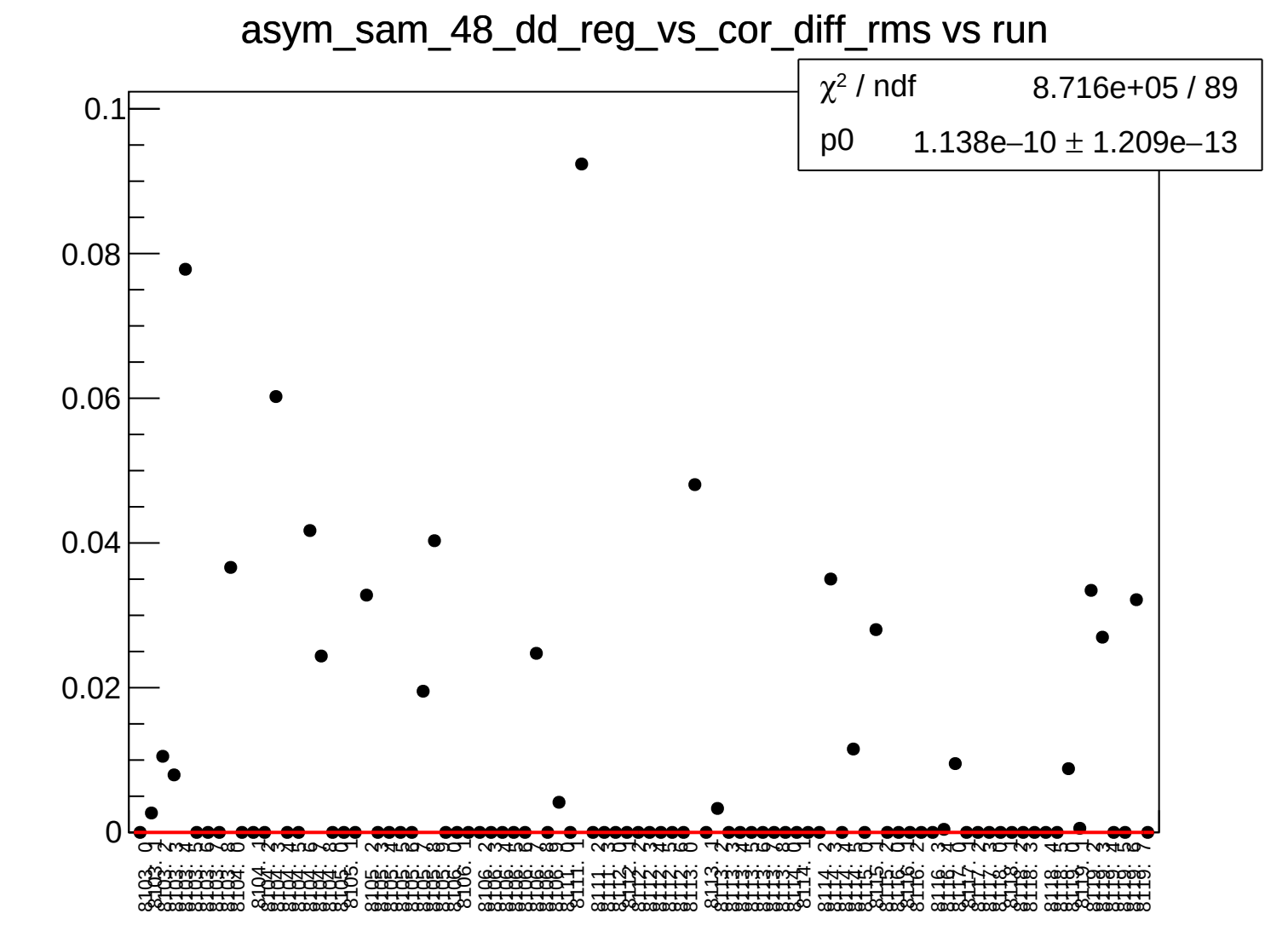

asym_sam_48_dd_mean vs run
χ² / ndf 102.5 / 89
p0 3734 ± 1968
pull
Entries 90
Mean −638.2
Std Dev 0

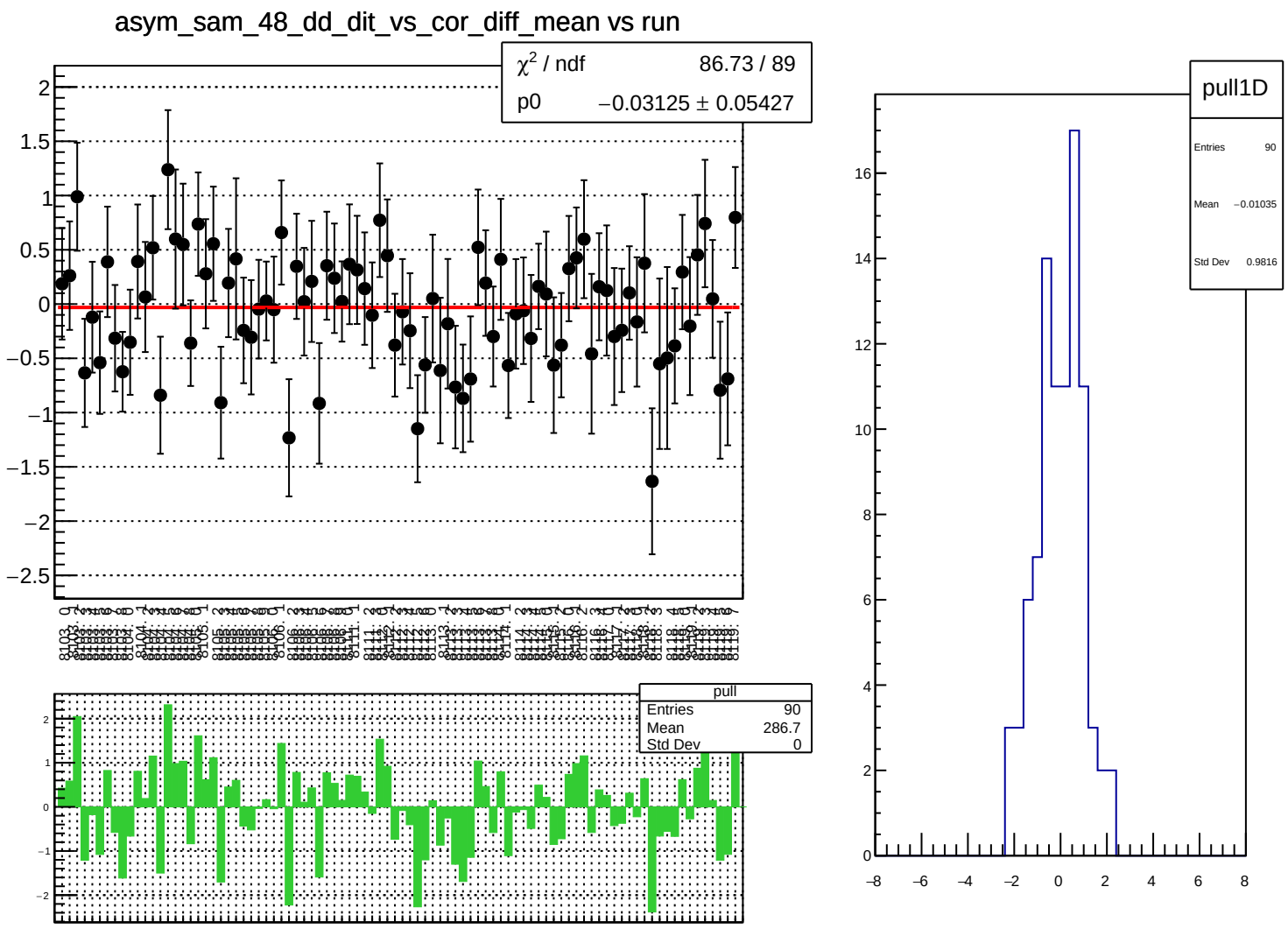

pull1D
Entries 90
Mean −0.006202
Std Dev 1.067

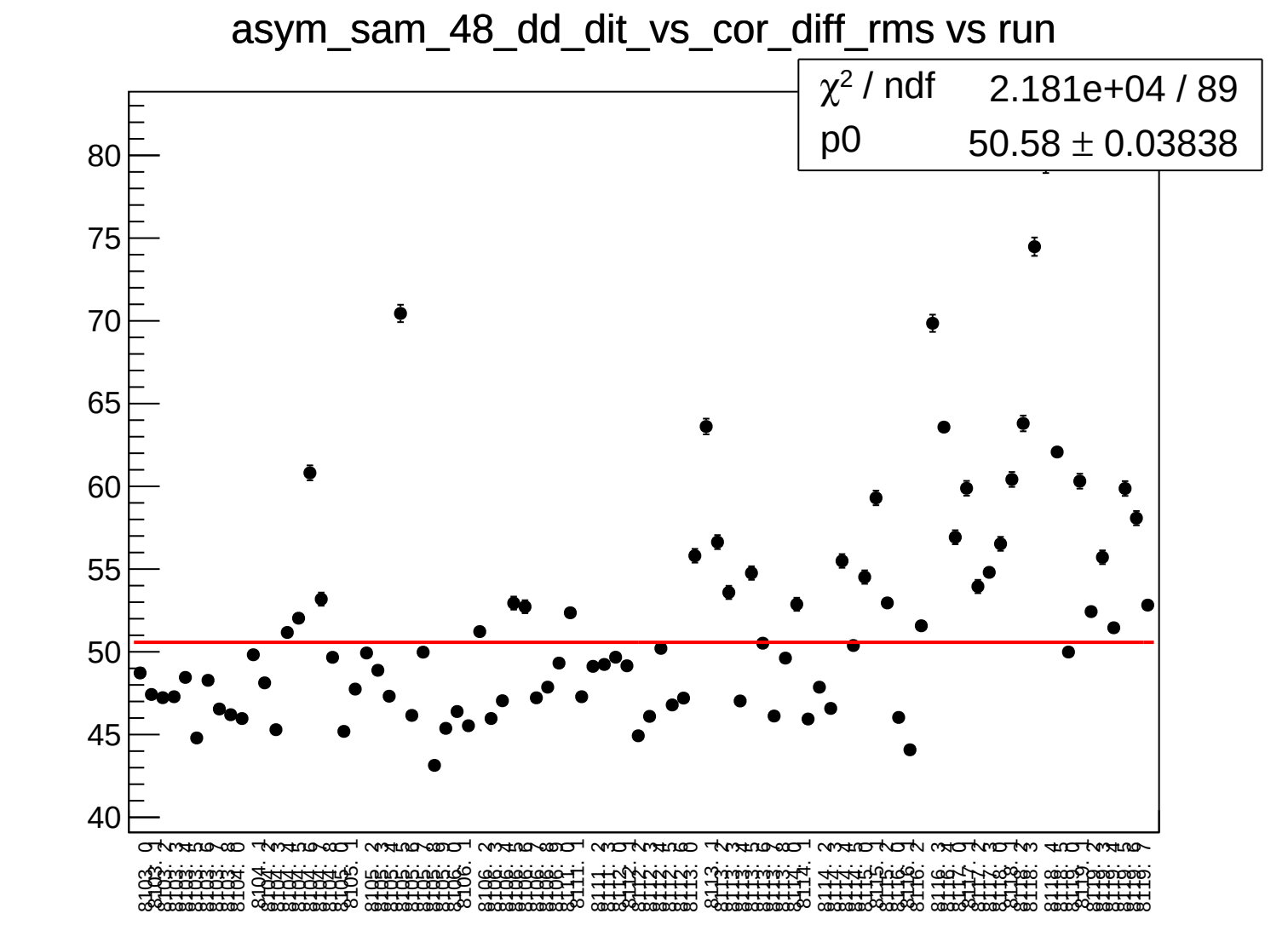

asym_sam_48_dd_rms vs run
χ² / ndf 2096 / 89
p0 1845 ± 1.392
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

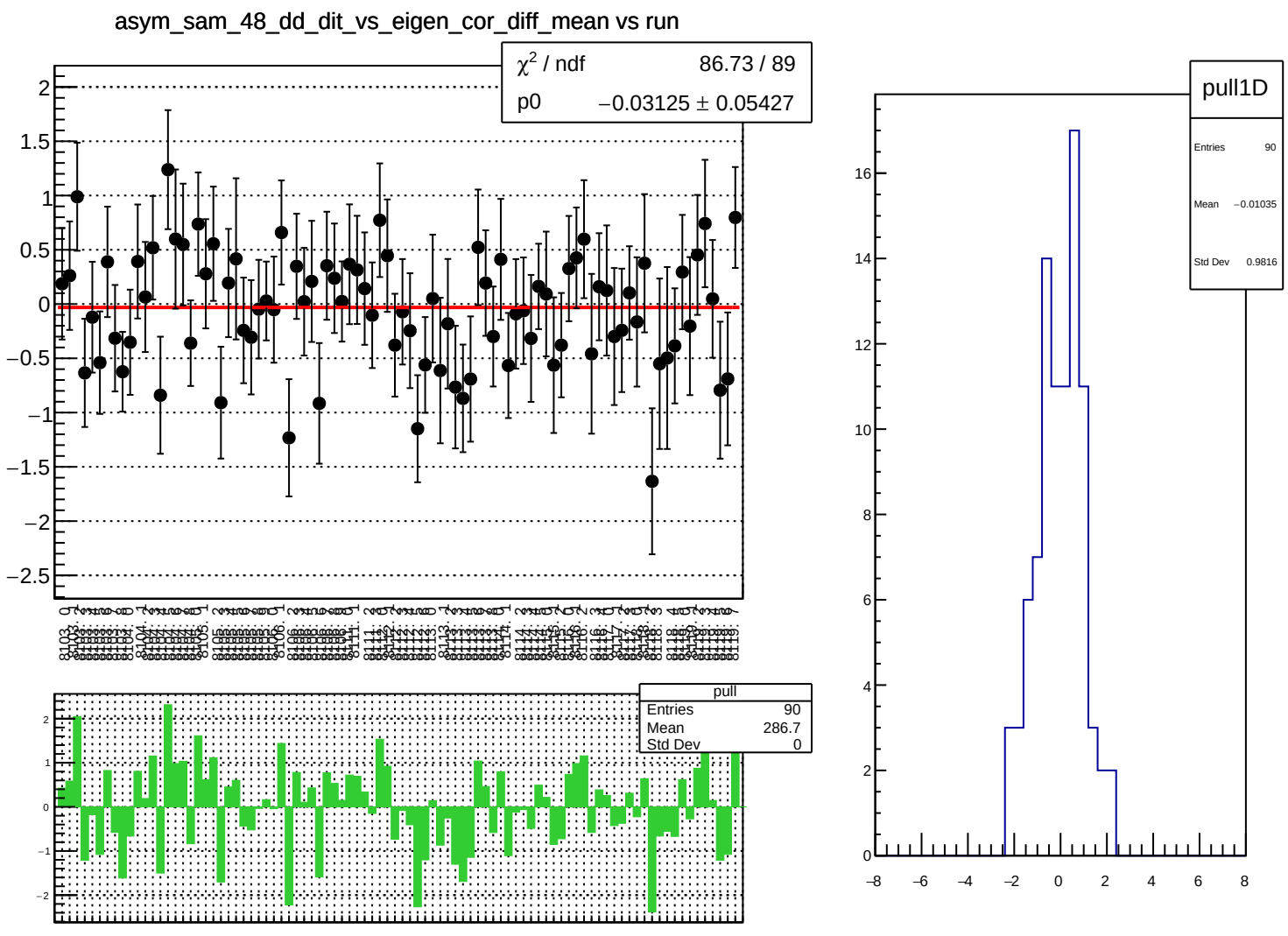

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.58 / 89
p0 −1.996e−13 ± 1.709e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 90
Mean 54.33
Std Dev 34.07
3
2
1
0
−1
−2

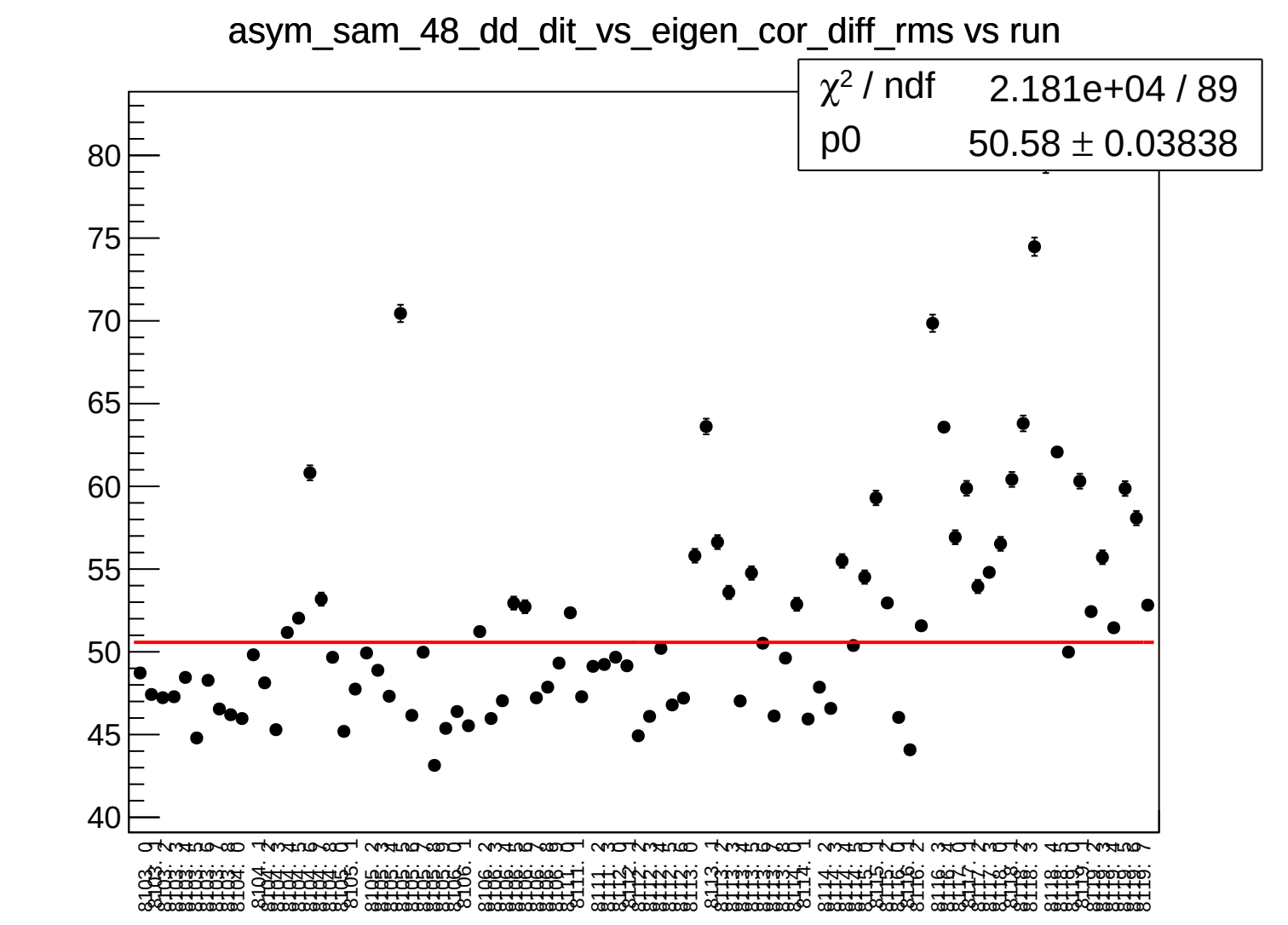

pull1D
Entries 90
Mean −0.1897
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

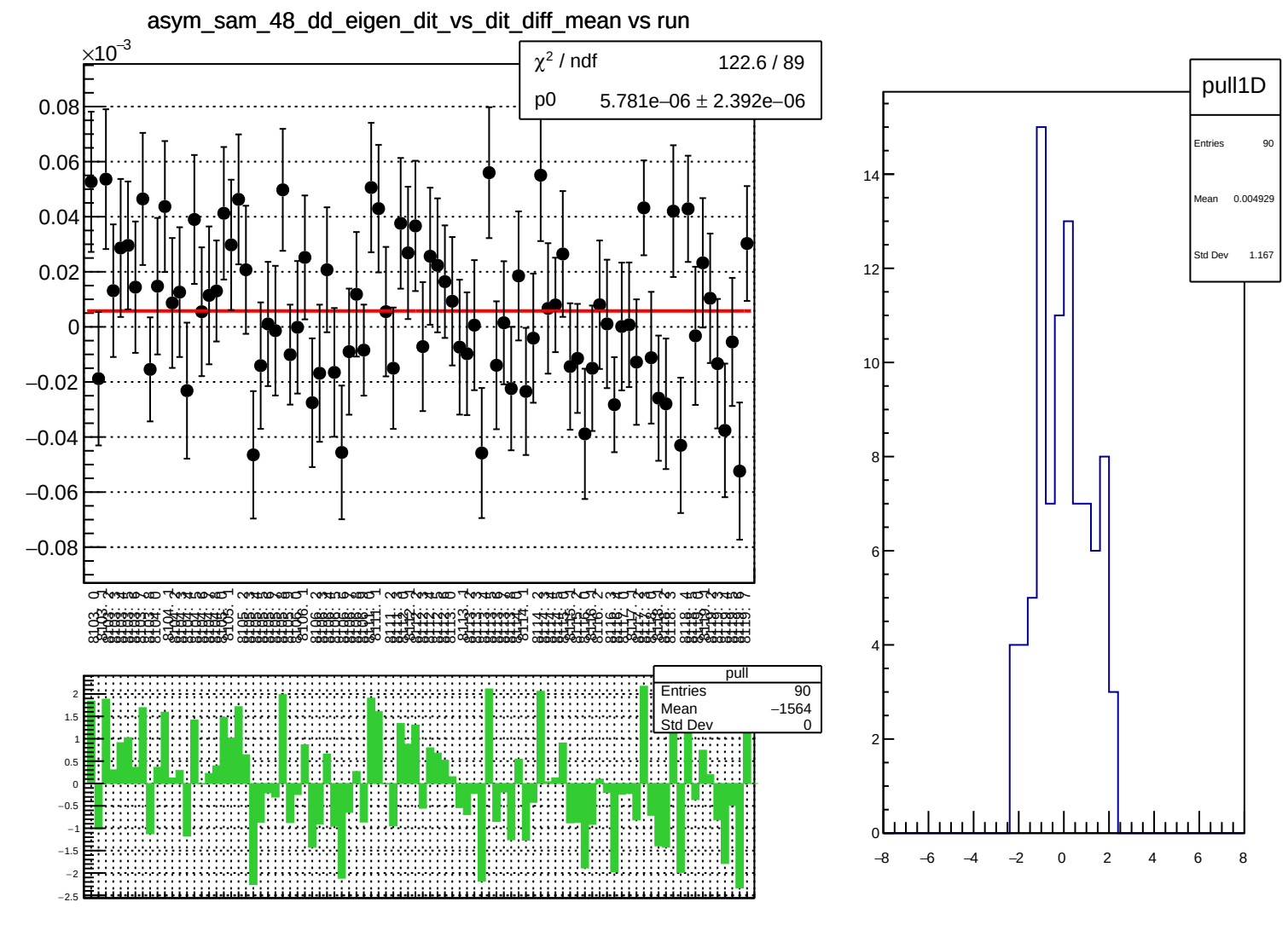

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.716e+05 / 89
p0 1.138e−10 ± 1.209e−13
0.1
0.08
0.06
0.04
0.02
0

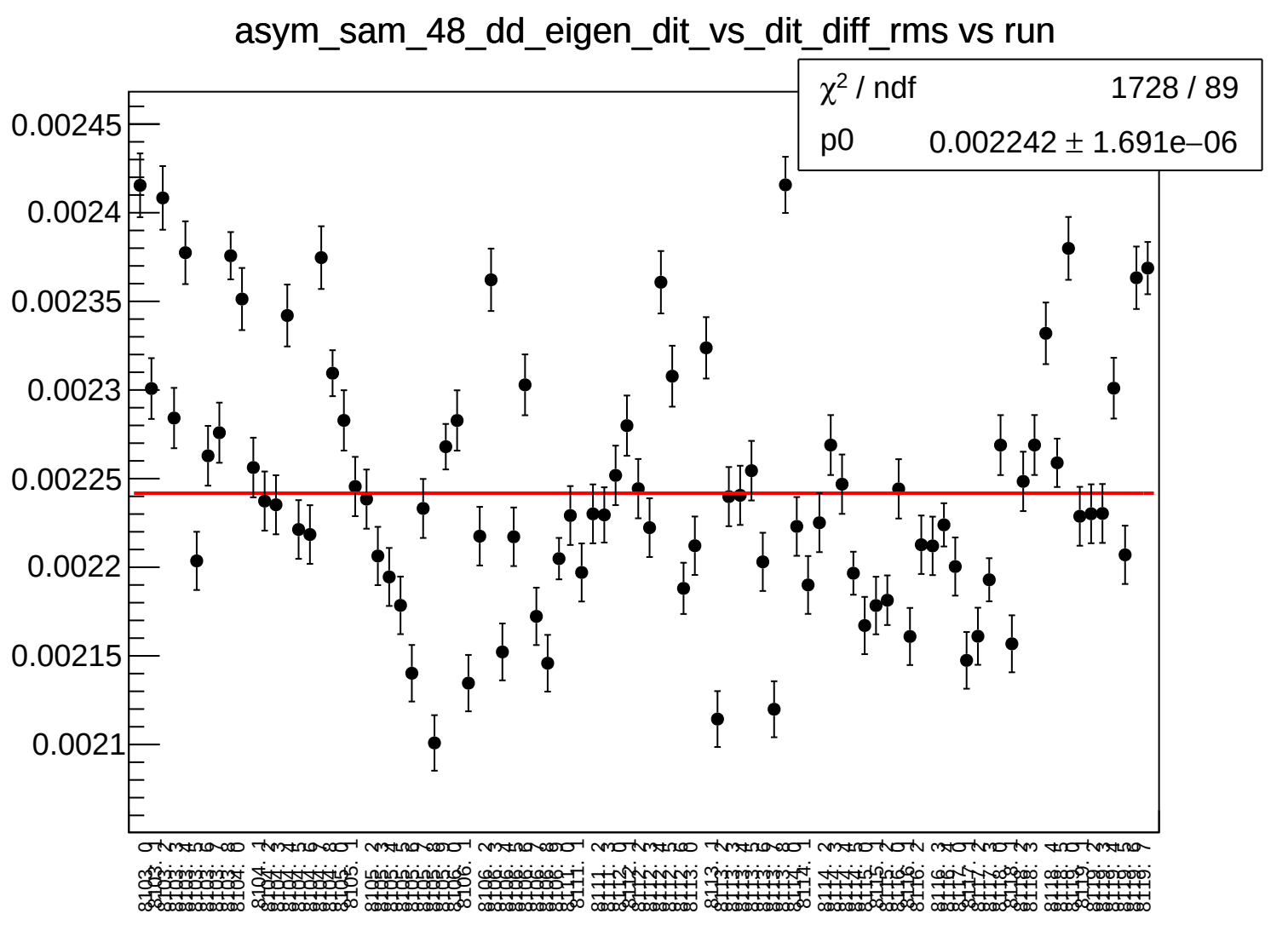

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.73 / 89
p0 −0.03125 ± 0.05427
pull
Entries 90
Mean 286.7
Std Dev 0
pull1D
Entries 90
Mean −0.01035
Std Dev 0.9816

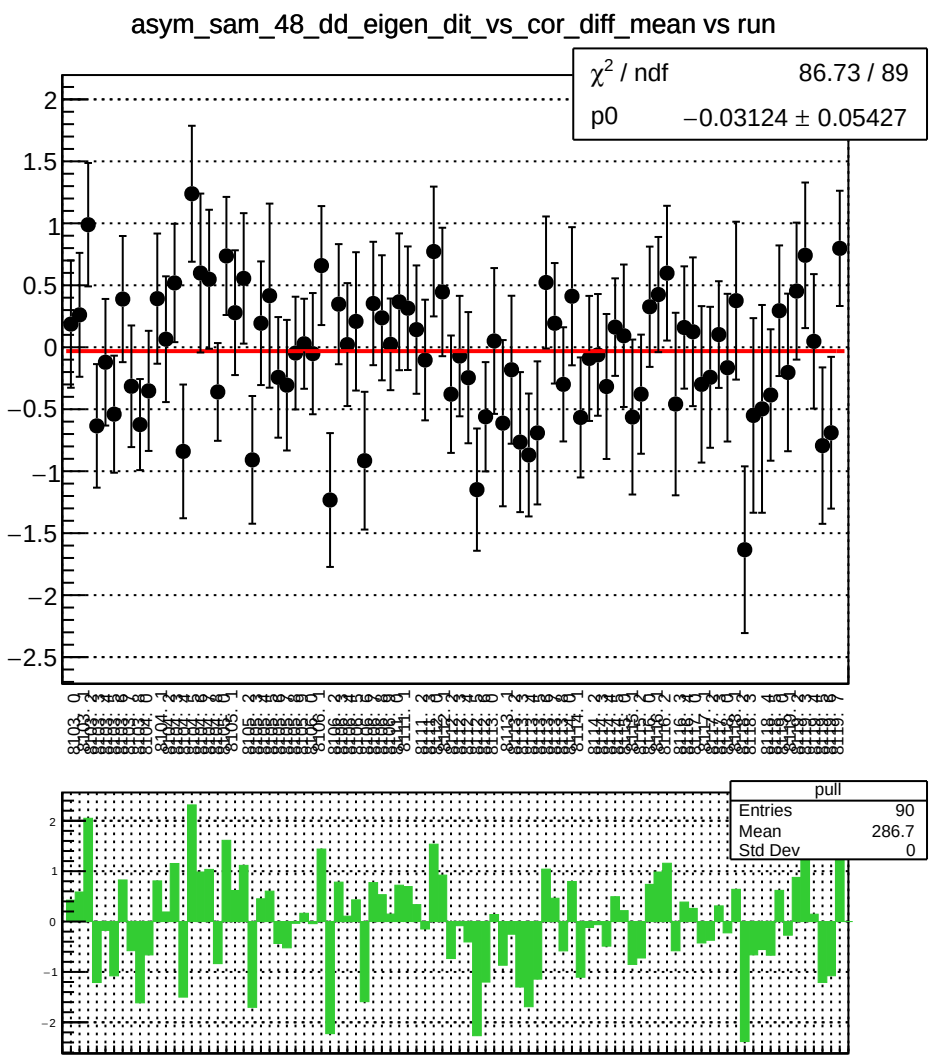

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.181e+04 / 89
p0 50.58 ± 0.03838
80
75
70
65
60
55
50
45
40

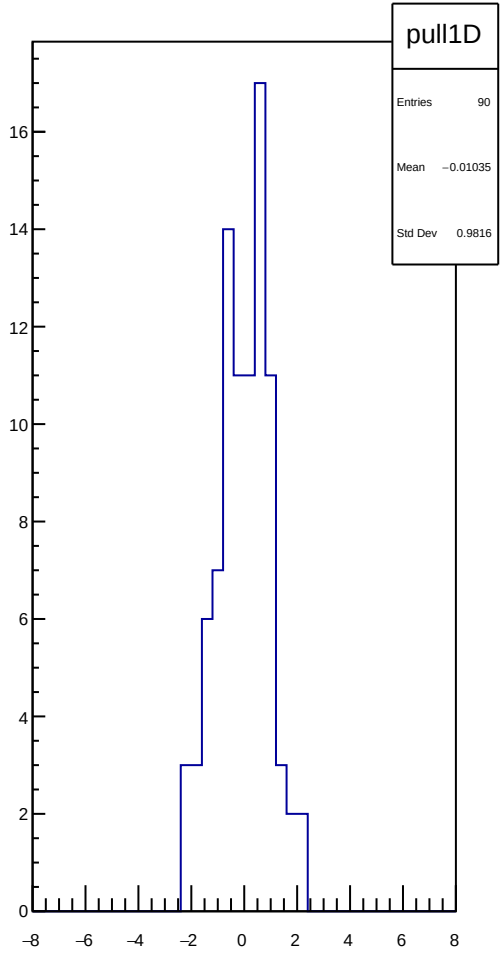

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.73 / 89
p0 −0.03125 ± 0.05427
pull
Entries 90
Mean 286.7
Std Dev 0
pull1D
Entries 90
Mean −0.01035
Std Dev 0.9816

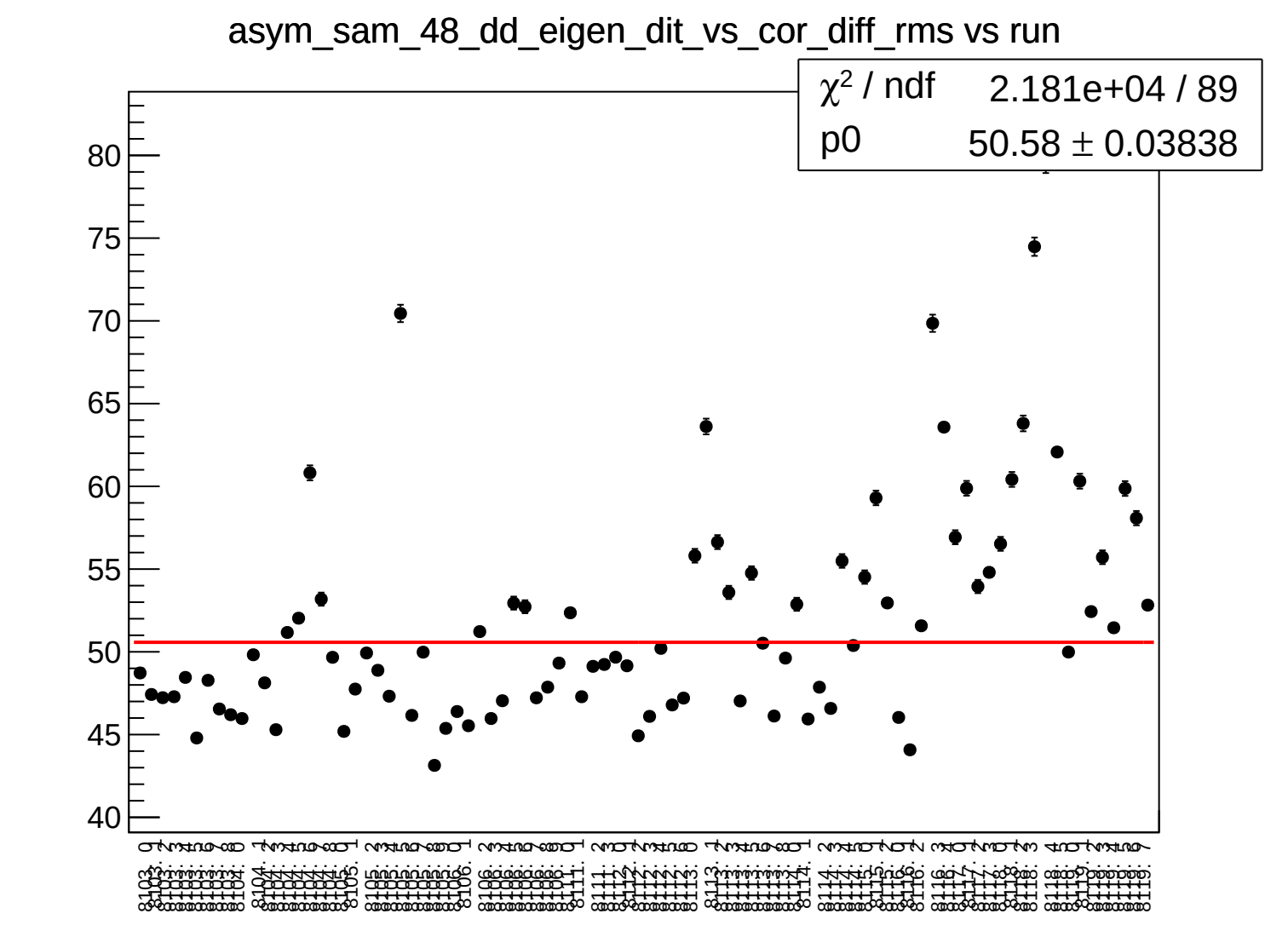

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.181e+04 / 89
p0 50.58 ± 0.03838
80
75
70
65
60
55
50
45
40

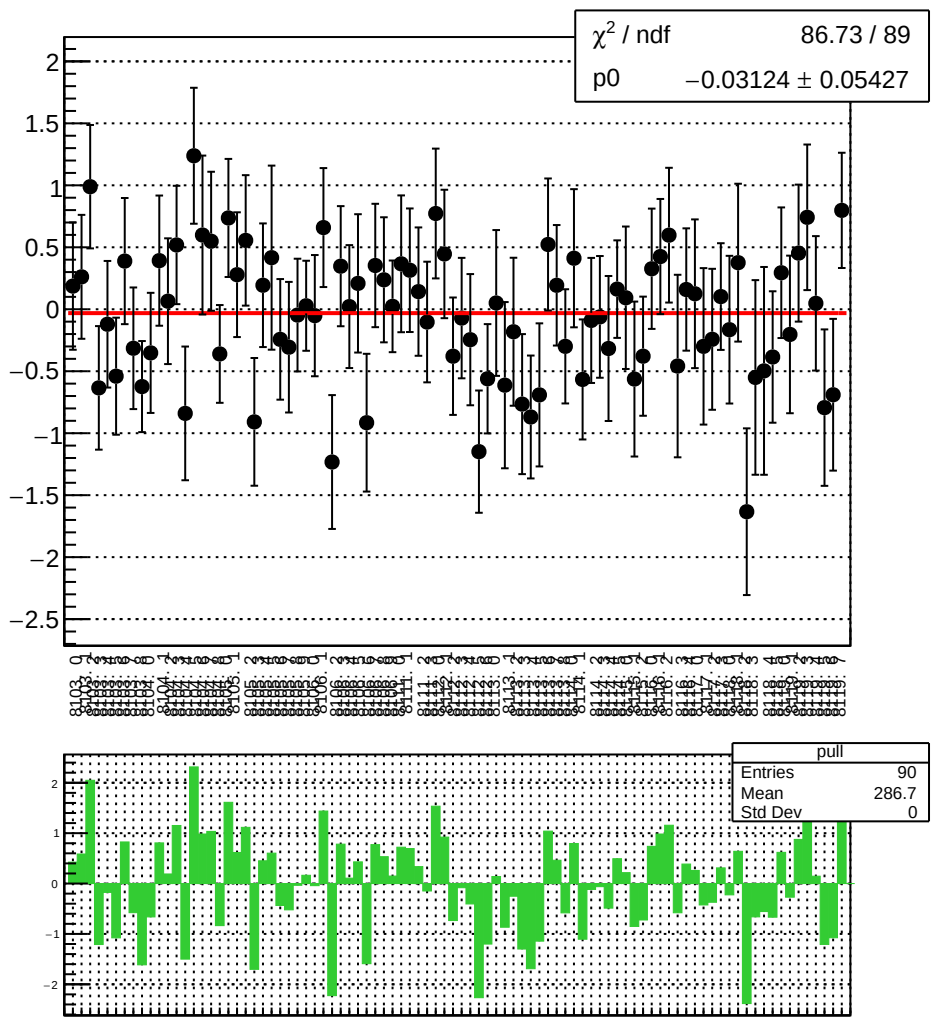

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 122.6 / 89
p0 5.781e−06 ± 2.392e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean −1564
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 90
Mean 0.004929
Std Dev 1.167
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

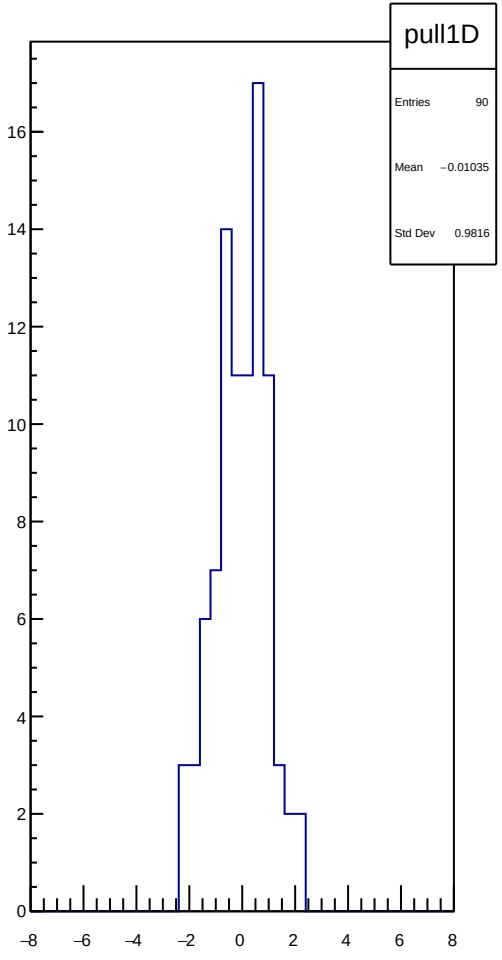

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1728 / 89
p0 0.002242 ± 1.691e−06
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021

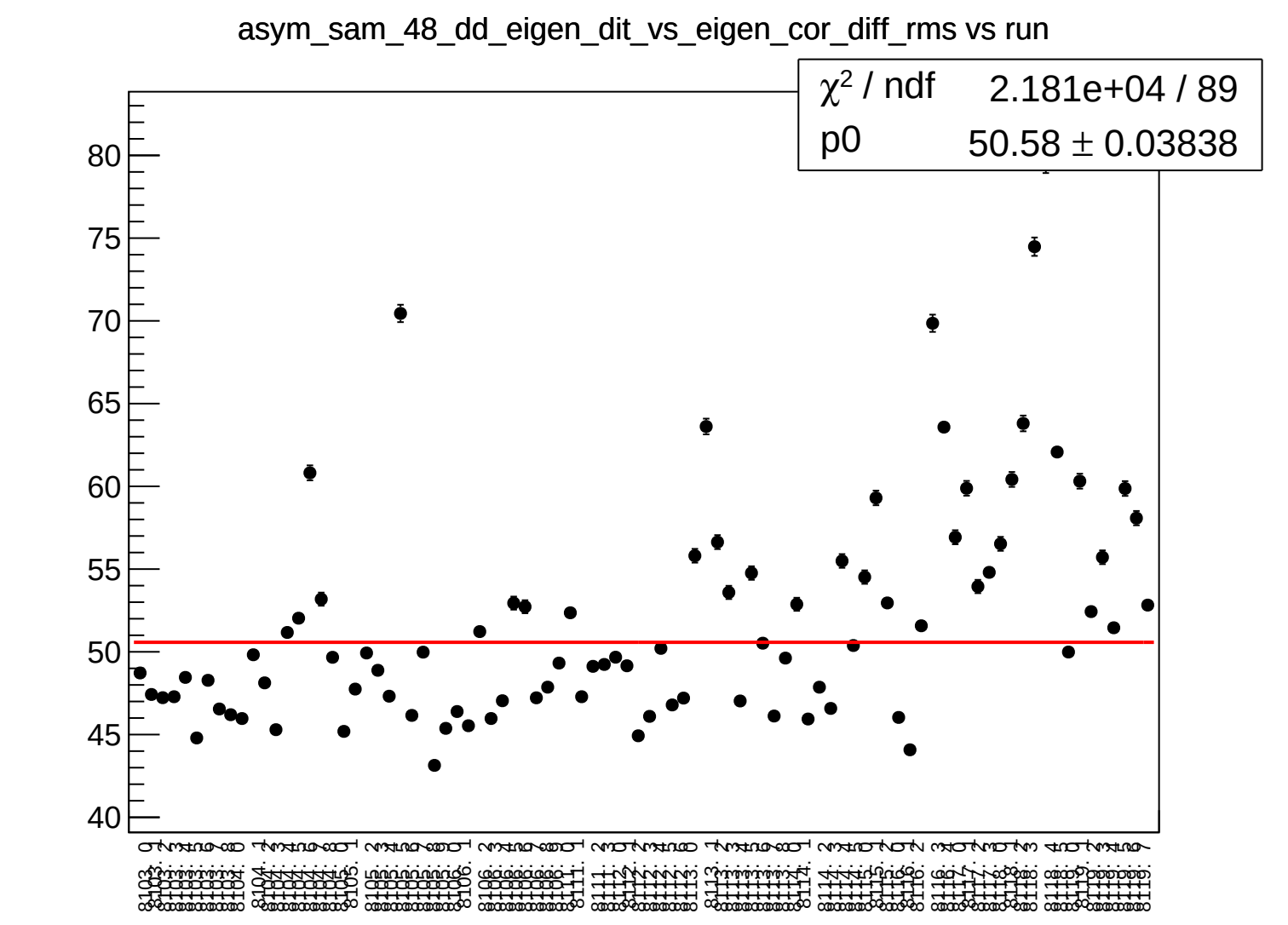

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.73 / 89
p0 −0.03124 ± 0.05427
pull
Entries 90
Mean 286.7
Std Dev 0

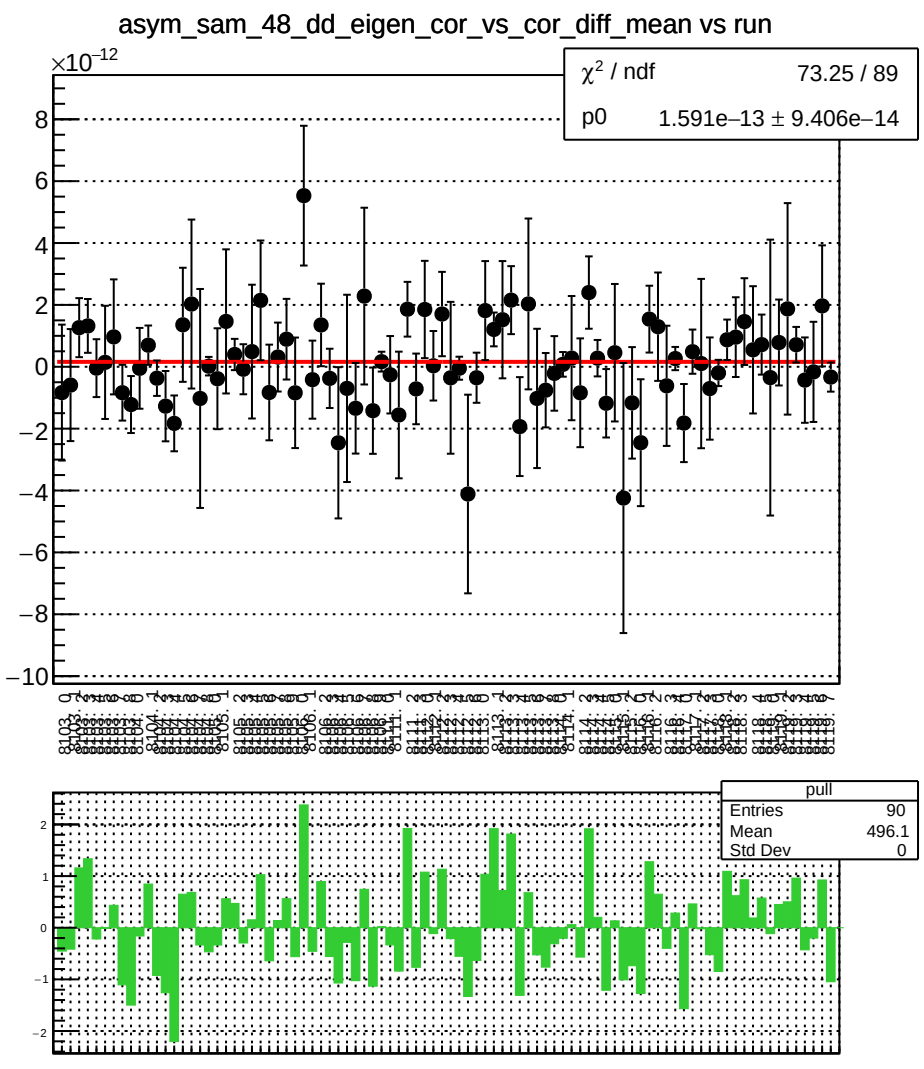

pull1D
Entries 90
Mean −0.01035
Std Dev 0.9816

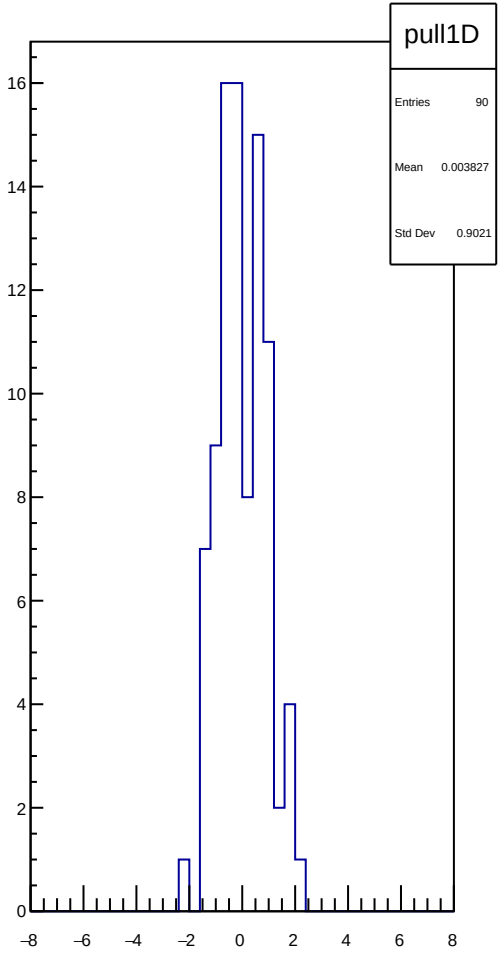

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.181e+04 / 89
p0 50.58 ± 0.03838
80
75
70
65
60
55
50
45
40

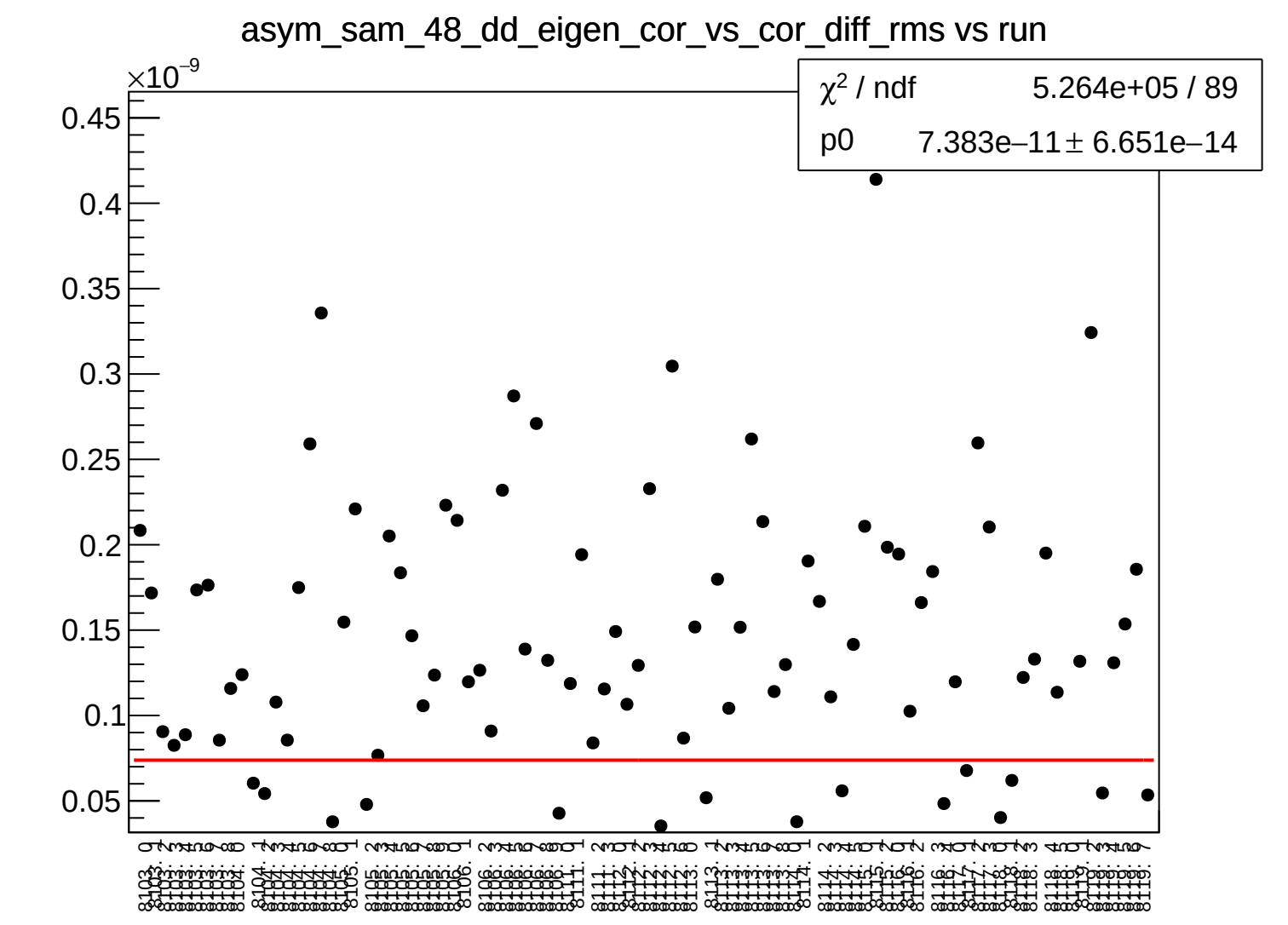

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.73 / 89
p0 −0.03124 ± 0.05427
pull
Entries 90
Mean 286.7
Std Dev 0

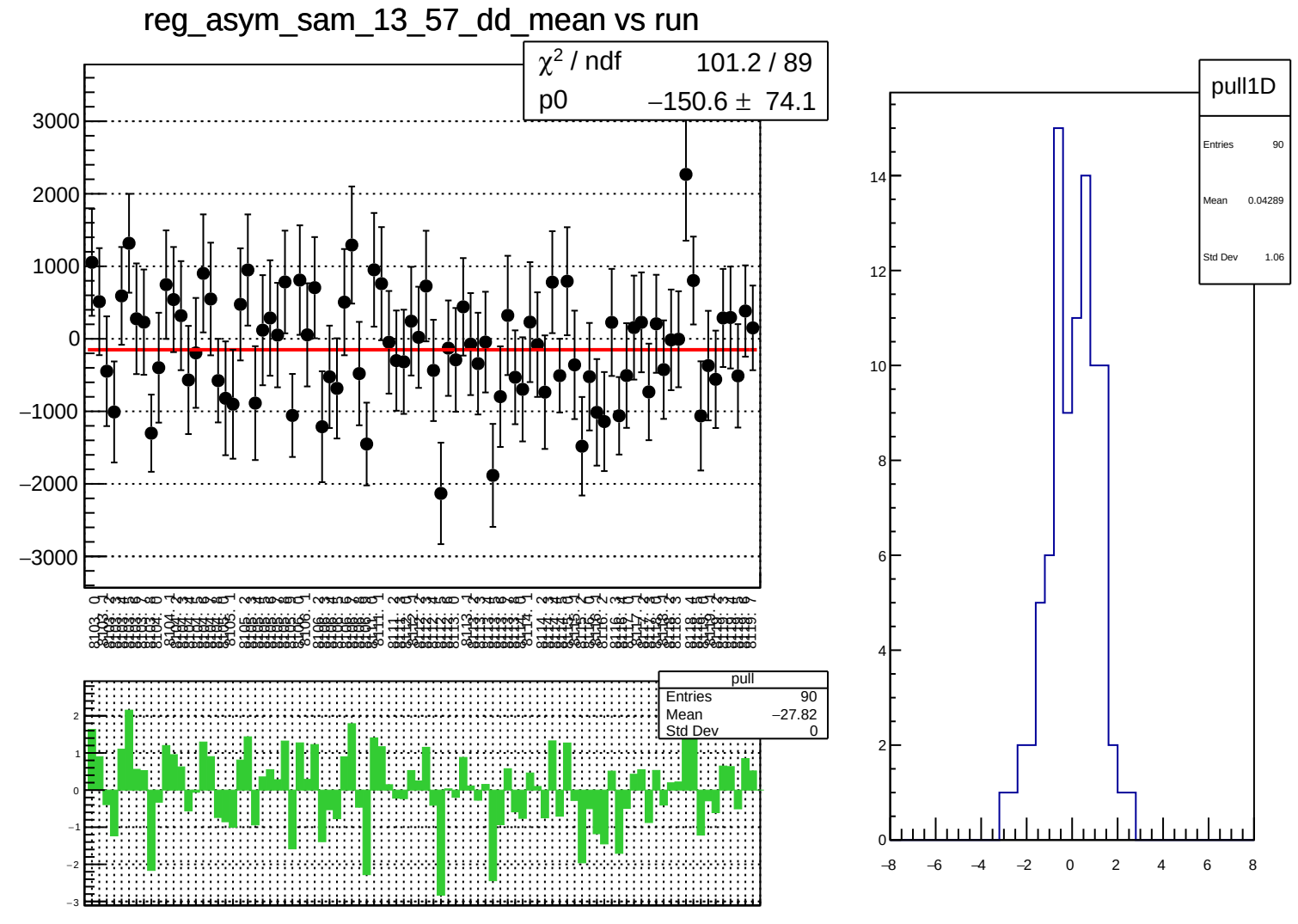

pull1D
Entries 90
Mean −0.01035
Std Dev 0.9816

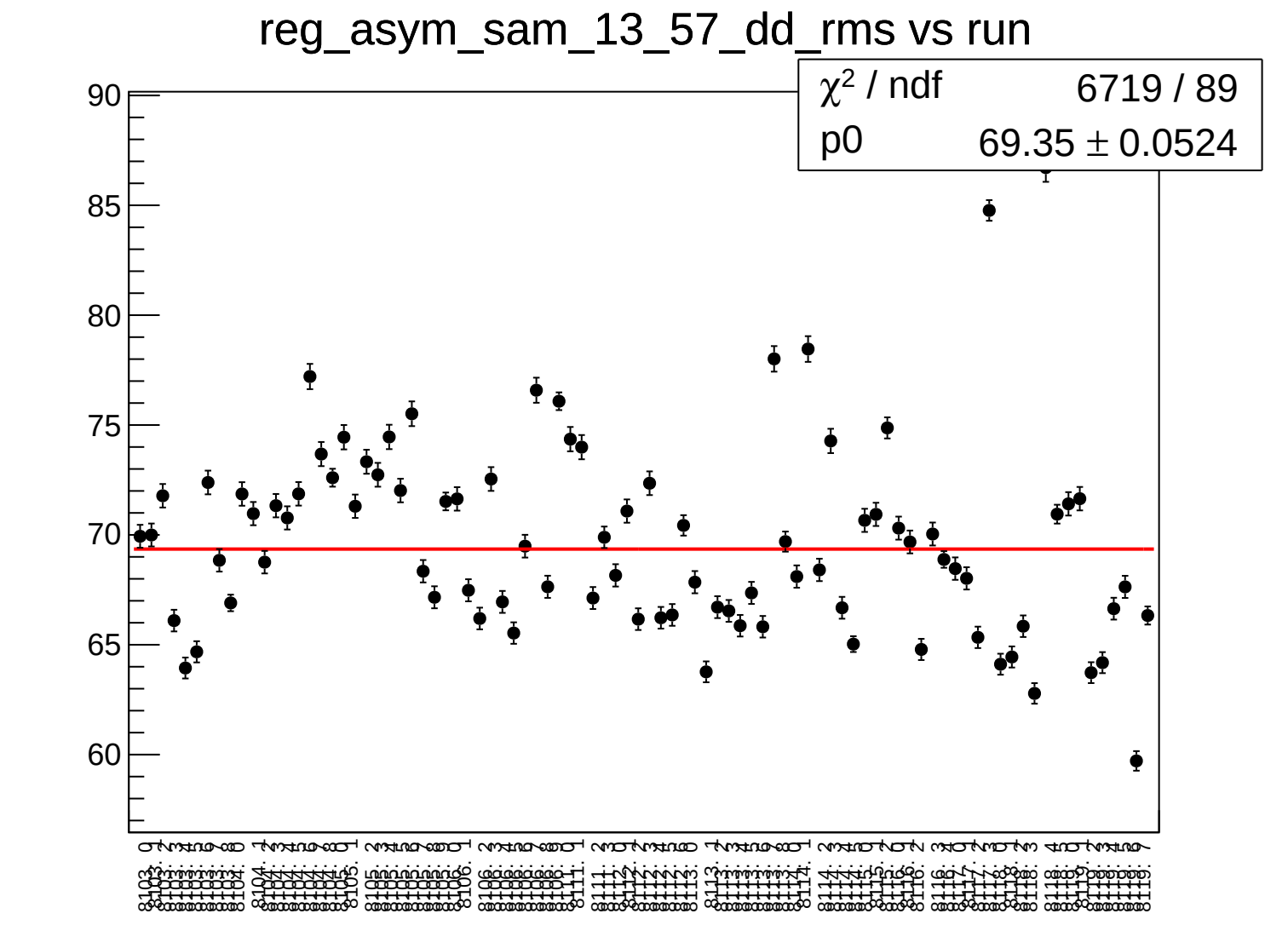

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.181e+04 / 89
p0 50.58 ± 0.03838
80
75
70
65
60
55
50
45
40

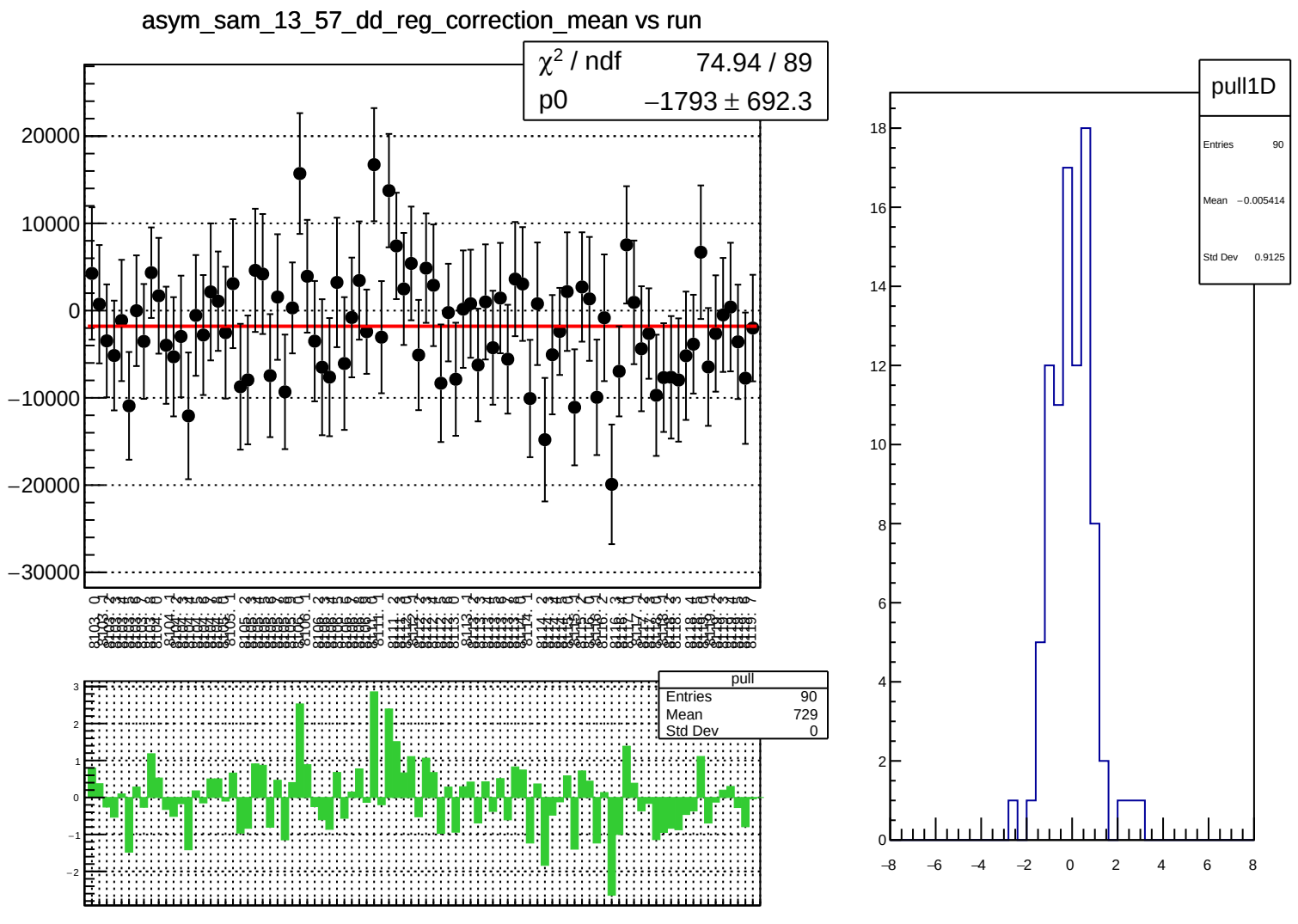

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.25 / 89
p0 1.591e−13 ± 9.406e−14
pull
Entries 90
Mean 496.1
Std Dev 0

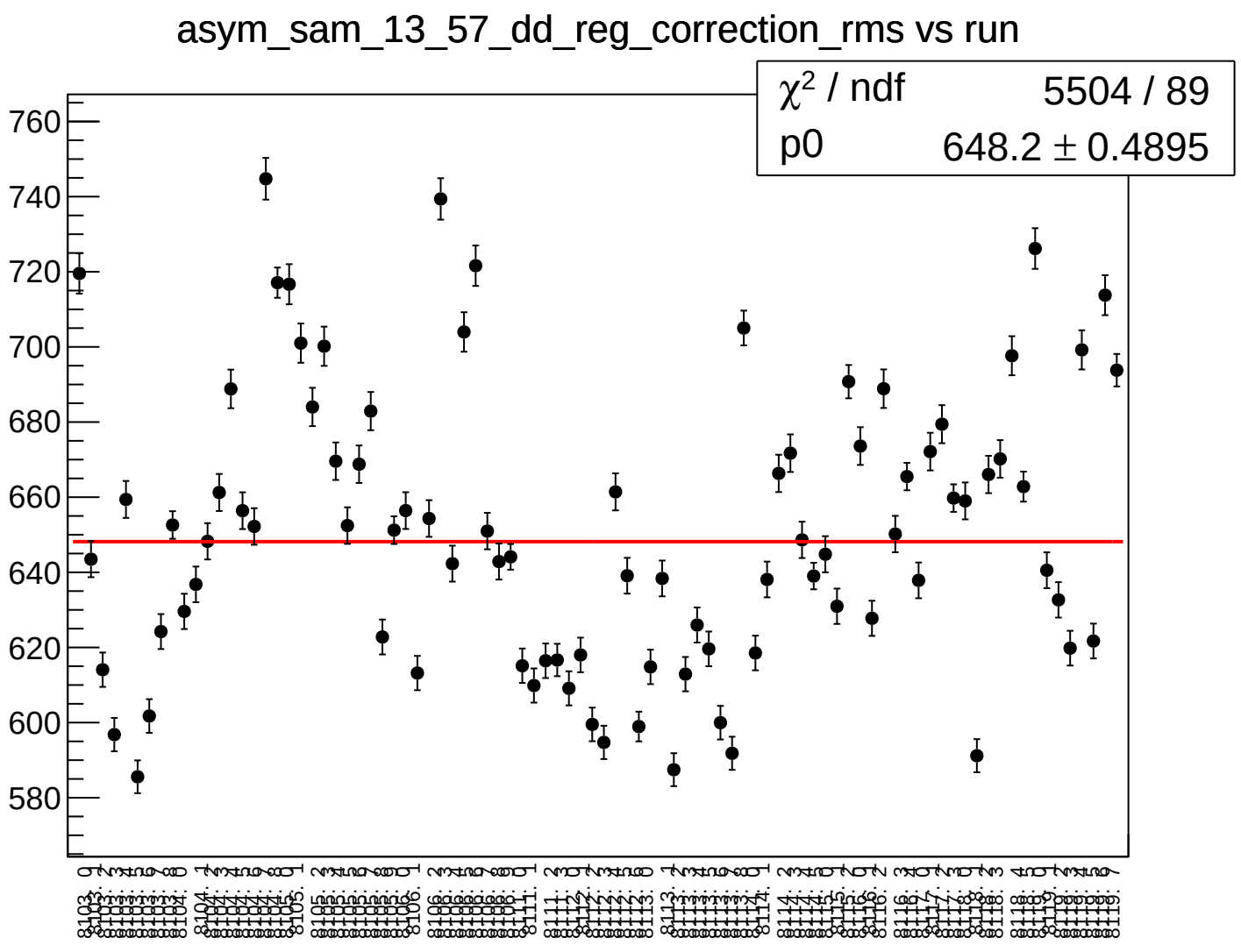

pull1D
Entries 90
Mean 0.003827
Std Dev 0.9021

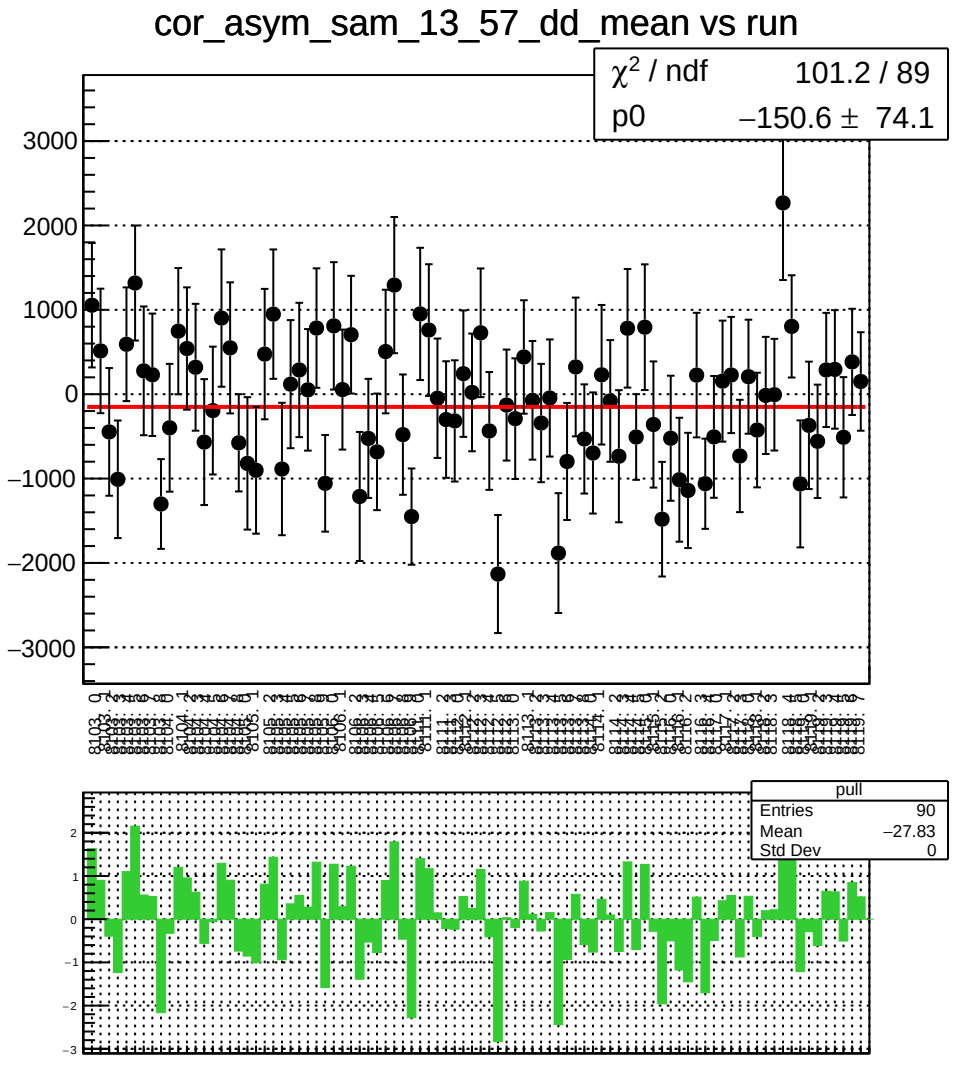

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.264e+05 / 89
p0 7.383e−11 ± 6.651e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

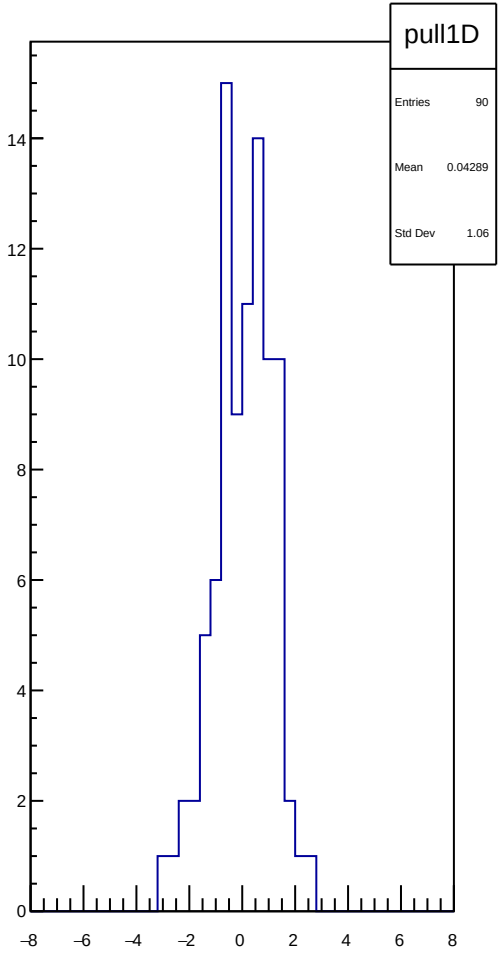

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 101.2 / 89
p0 −150.6 ± 74.1
pull
Entries 90
Mean −27.82
Std Dev 0
pull1D
Entries 90
Mean 0.04289
Std Dev 1.06

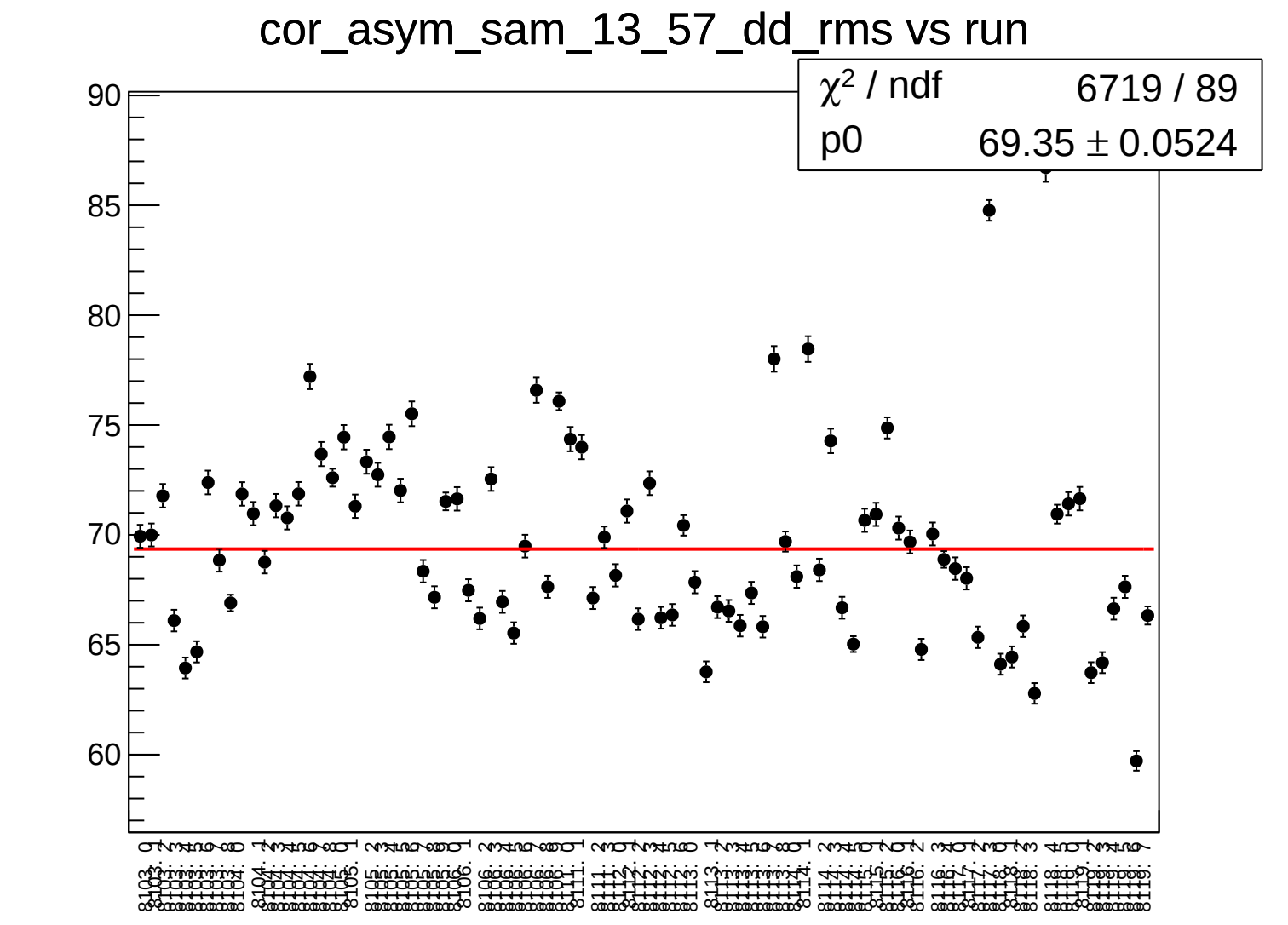

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 6719 / 89
p0 69.35 ± 0.0524
90
85
80
75
70
65
60

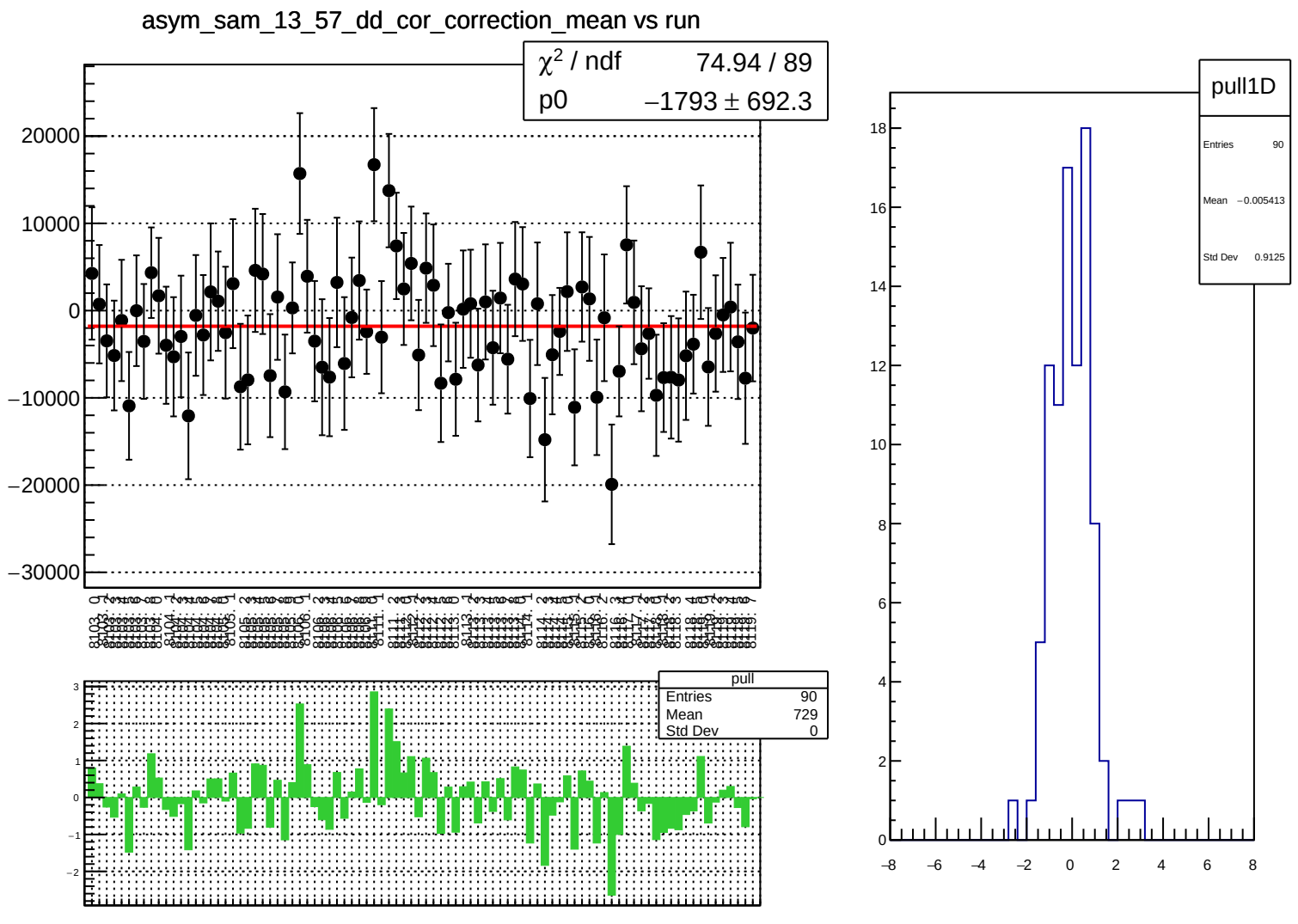

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 74.94 / 89
p0 −1793 ± 692.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 729
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.005414
Std Dev 0.9125
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

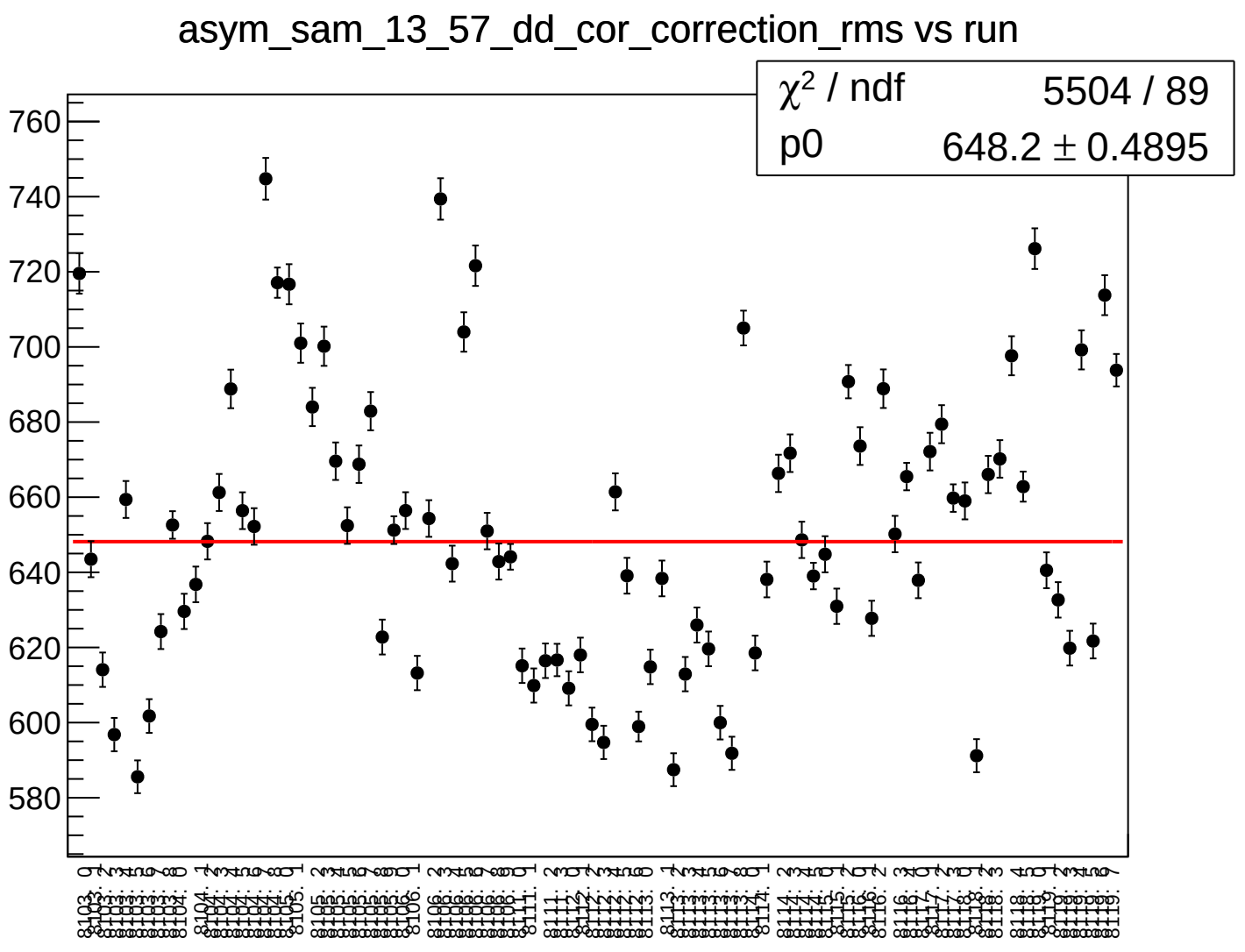

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 5504 / 89
p0 648.2 ± 0.4895
760
740
720
700
680
660
640
620
600
580

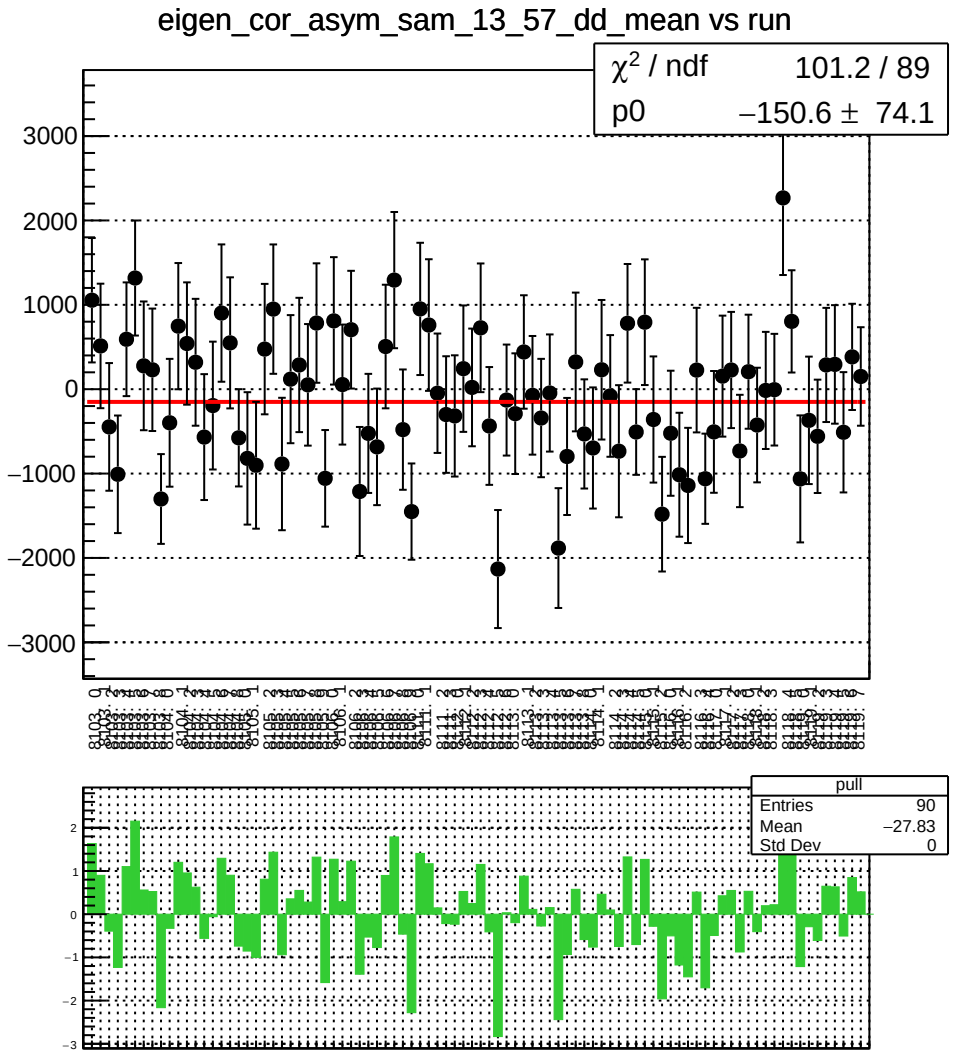

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 101.2 / 89
p0 −150.6 ± 74.1
pull
Entries 90
Mean −27.83
Std Dev 0

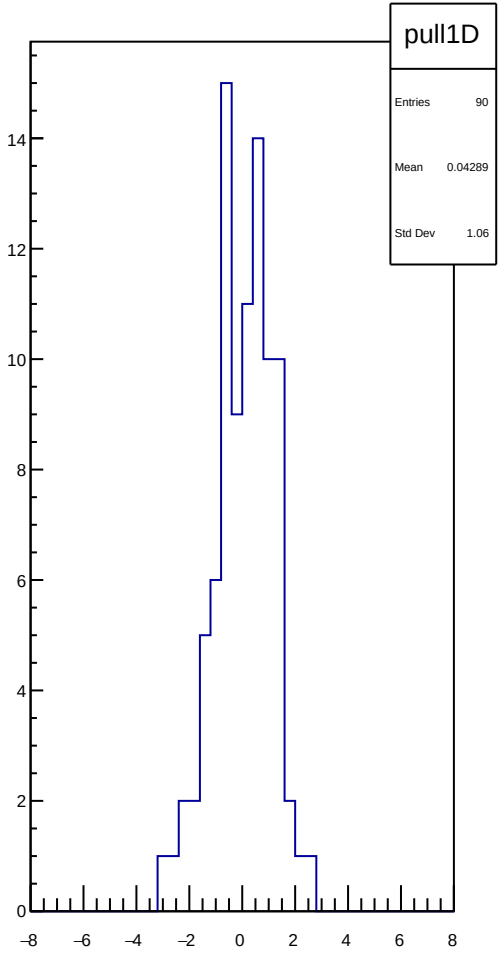

pull1D
Entries 90
Mean 0.04289
Std Dev 1.06

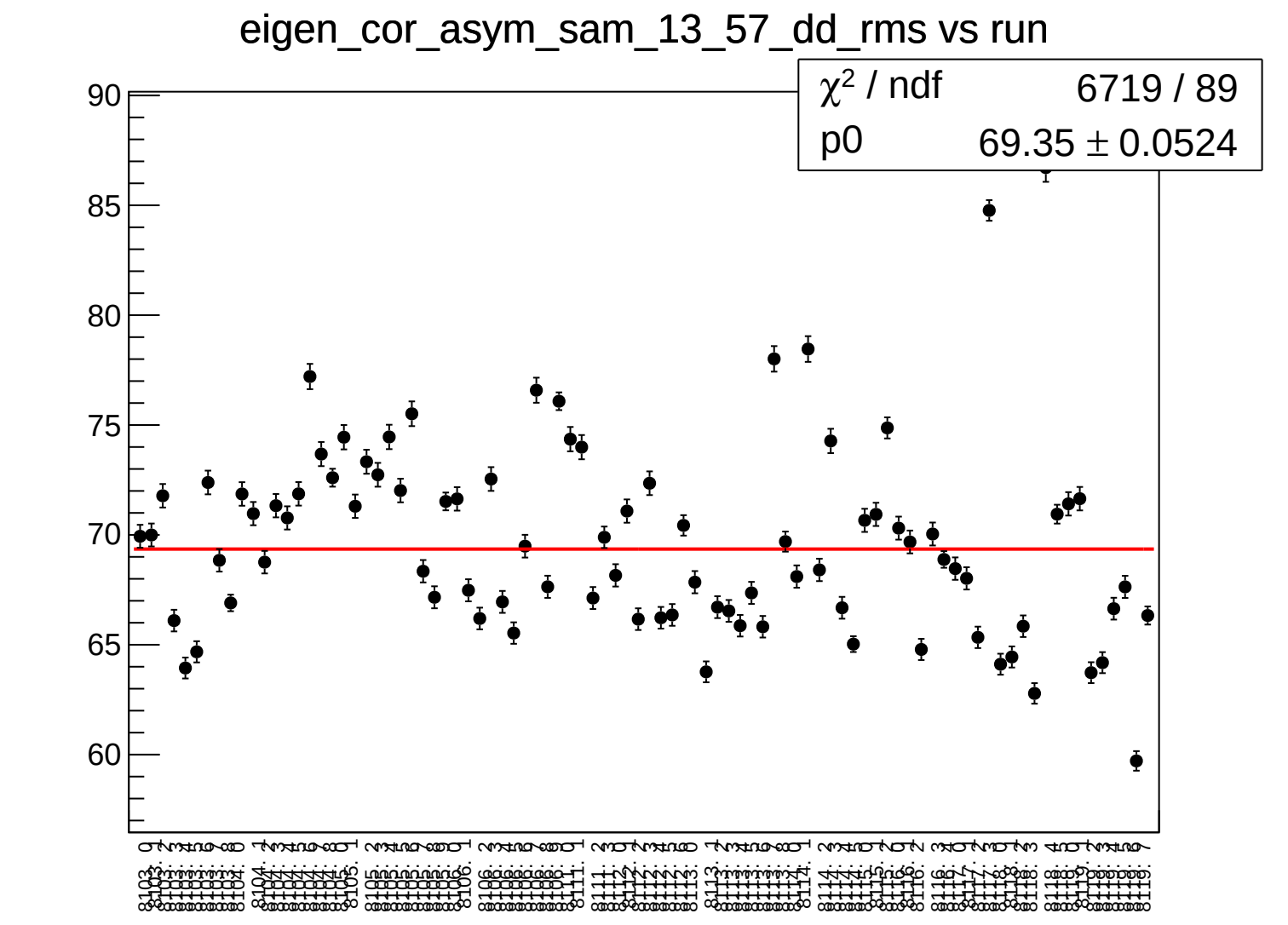

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 6719 / 89
p0 69.35 ± 0.0524
90
85
80
75
70
65
60

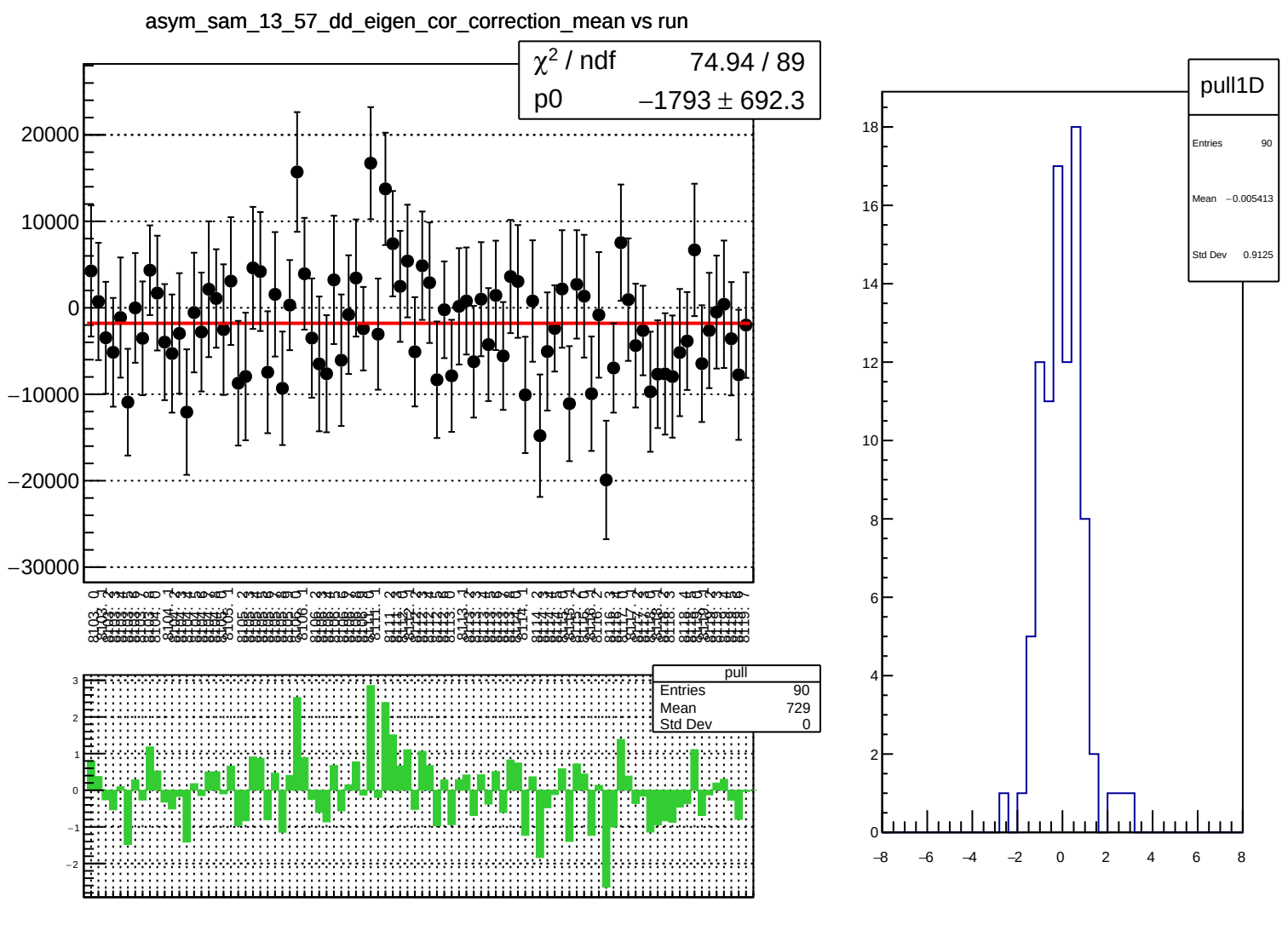

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 74.94 / 89
p0 −1793 ± 692.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 729
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.005413
Std Dev 0.9125
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

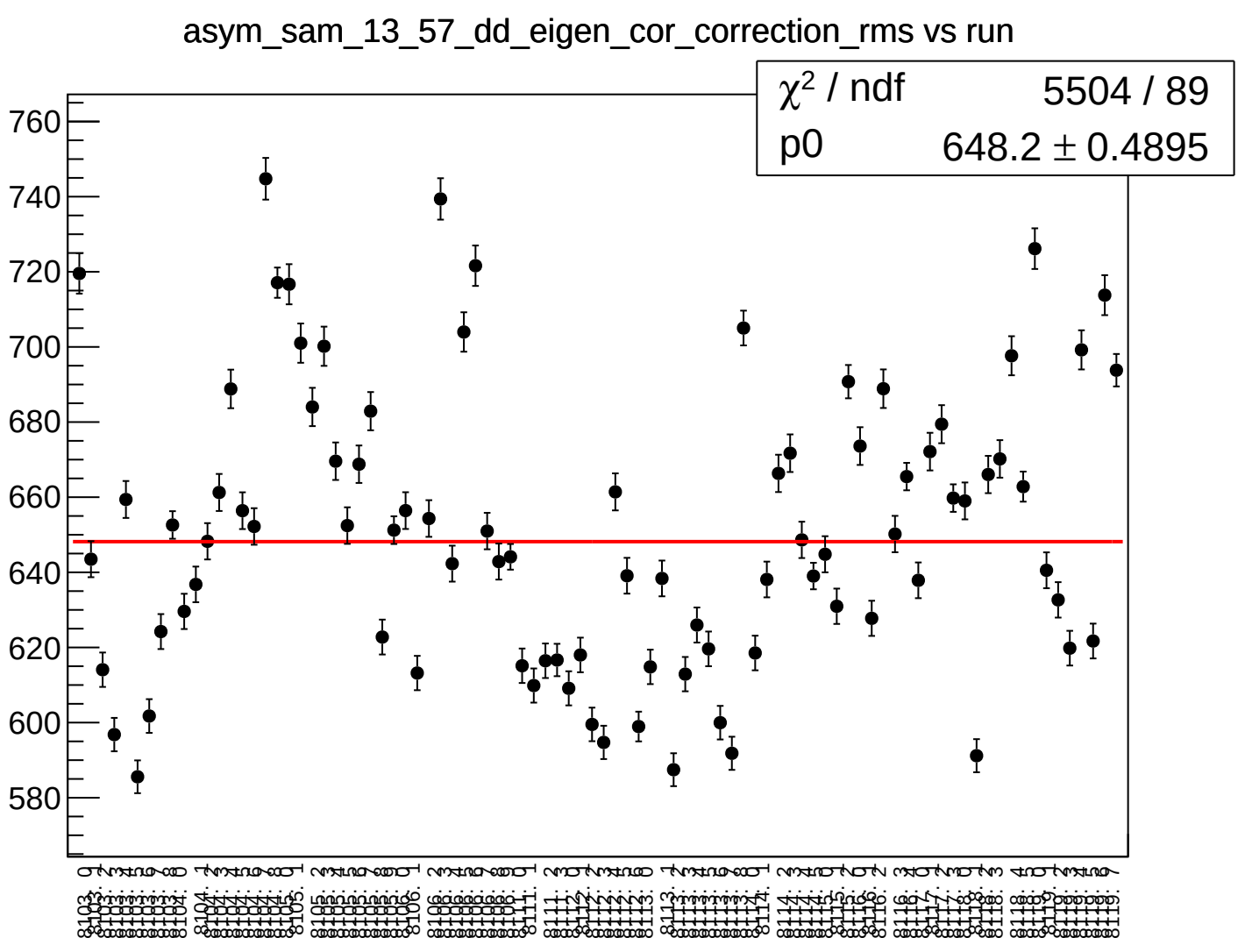

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 5504 / 89
p0 648.2 ± 0.4895
760
740
720
700
680
660
640
620
600
580

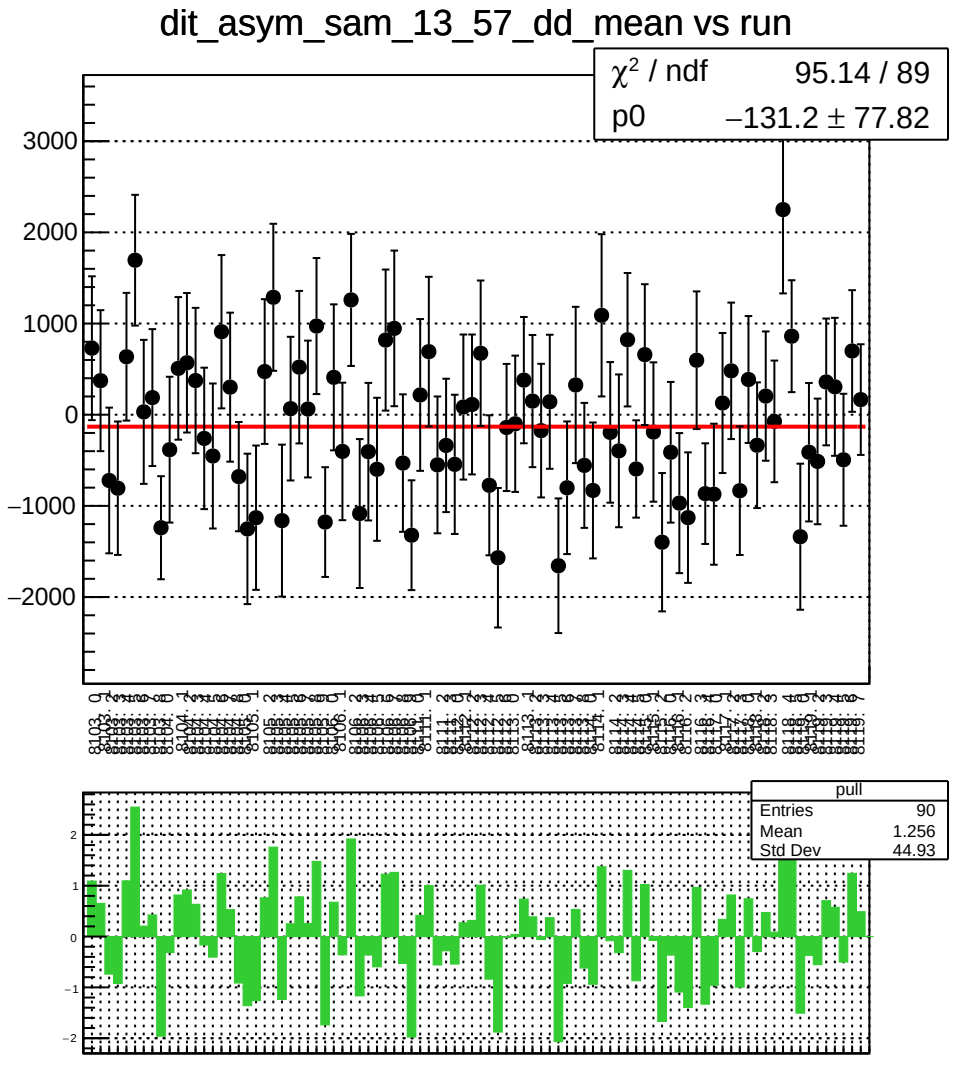

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 101.2 / 89
p0 −150.6 ± 74.1
pull
Entries 90
Mean −27.83
Std Dev 0

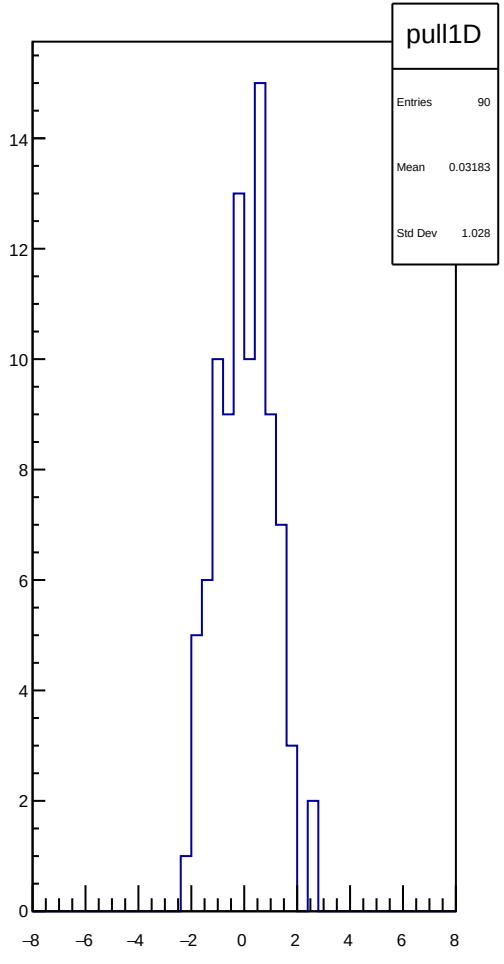

pull1D
Entries 90
Mean 0.04289
Std Dev 1.06

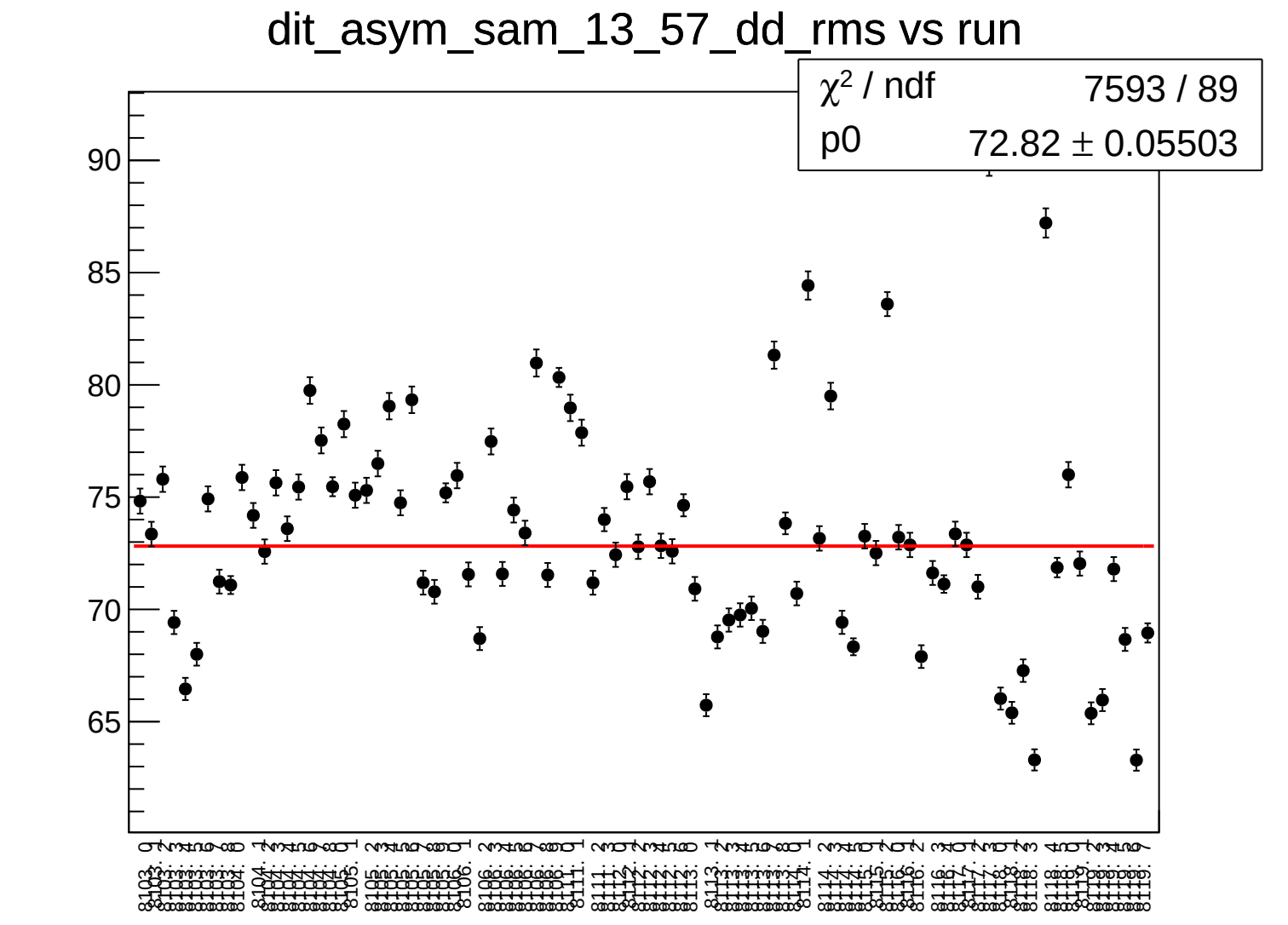

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 6719 / 89
p0 69.35 ± 0.0524
90
85
80
75
70
65
60

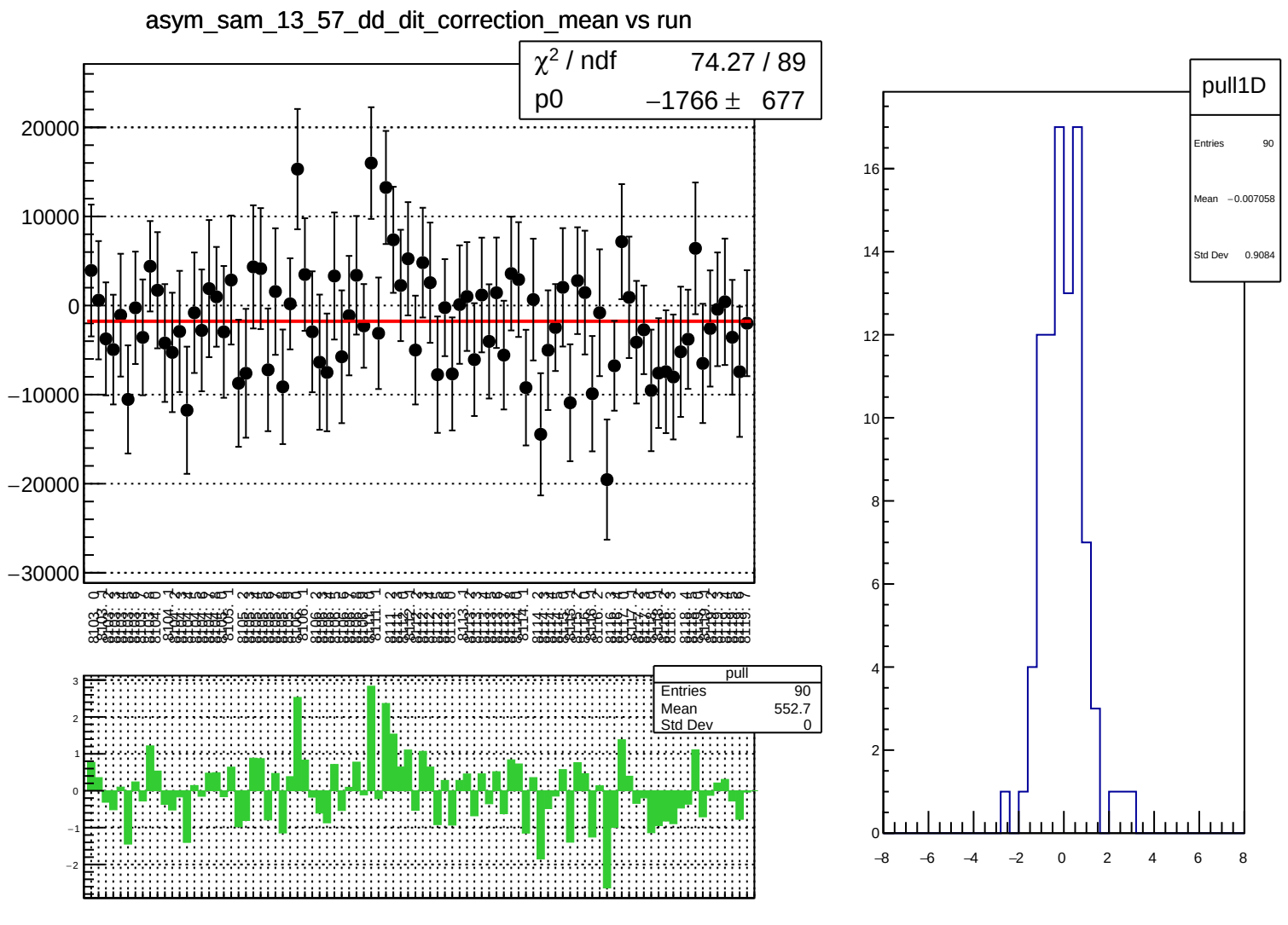

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.94 / 89
p0 −1793 ± 692.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 729
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.005413
Std Dev 0.9125
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

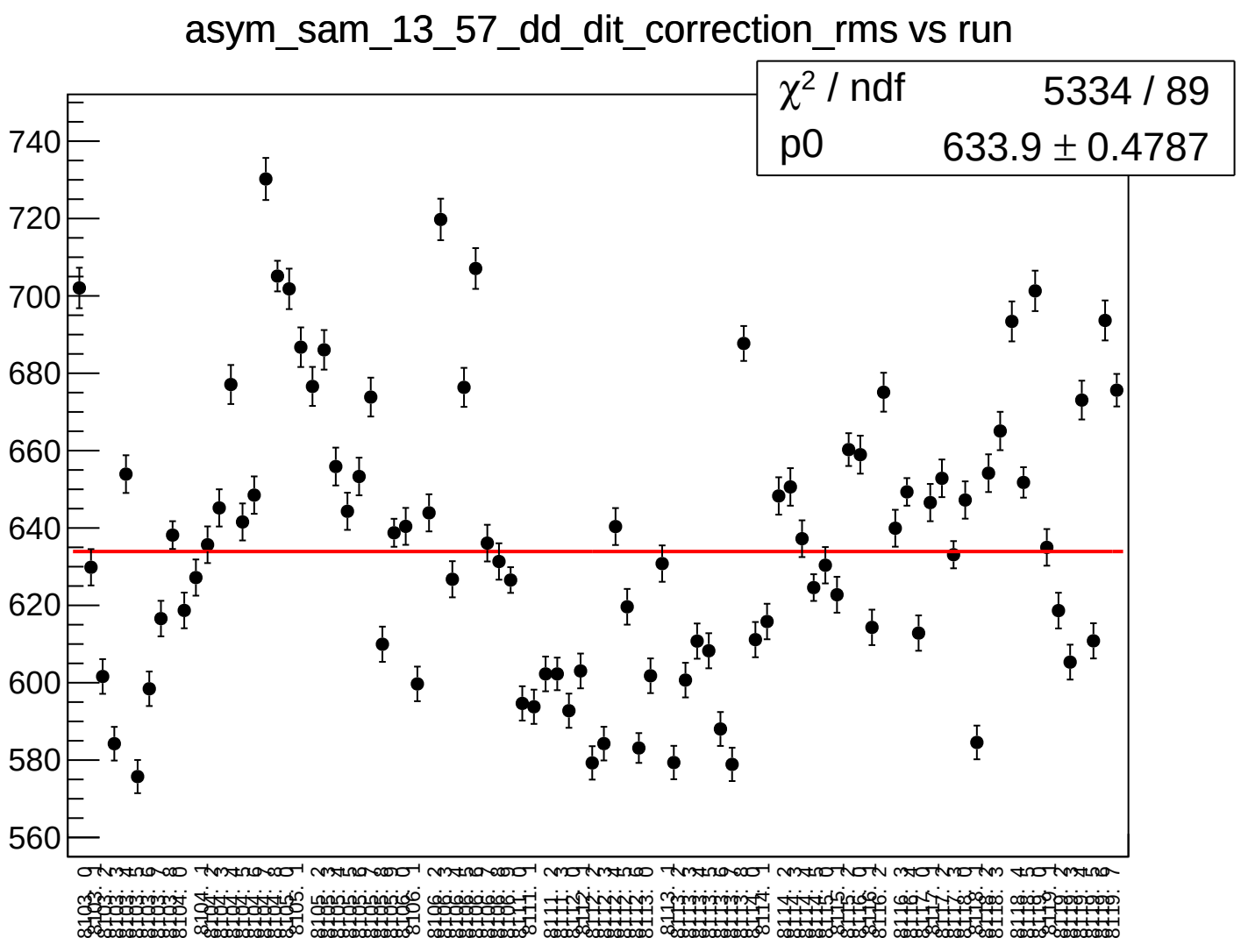

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 5504 / 89
p0 648.2 ± 0.4895
760
740
720
700
680
660
640
620
600
580

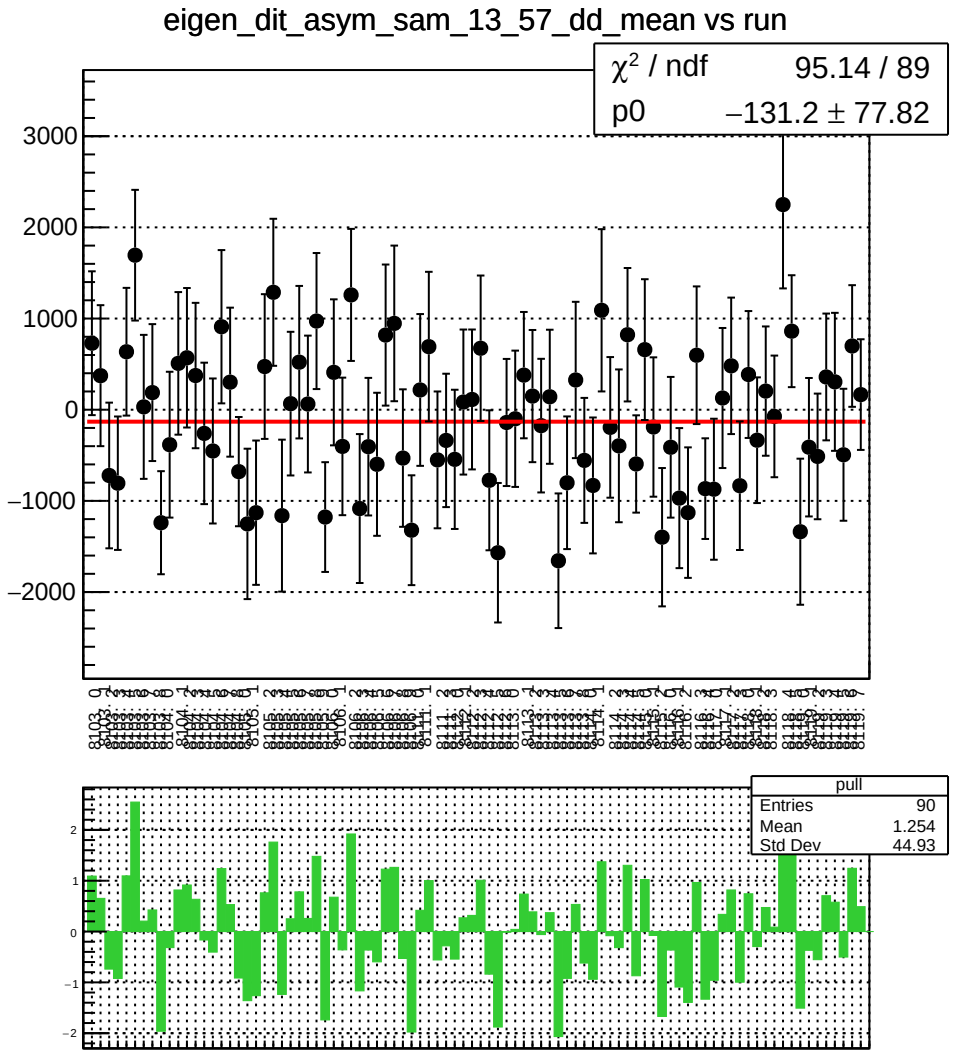

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 95.14 / 89
p0 −131.2 ± 77.82
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 1.256
Std Dev 44.93
2
1
0
−1
−2

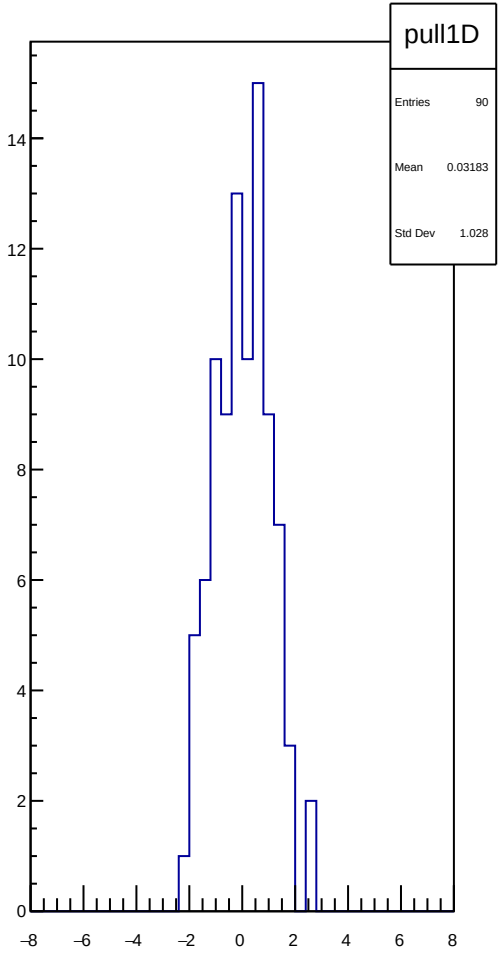

pull1D
Entries 90
Mean 0.03183
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

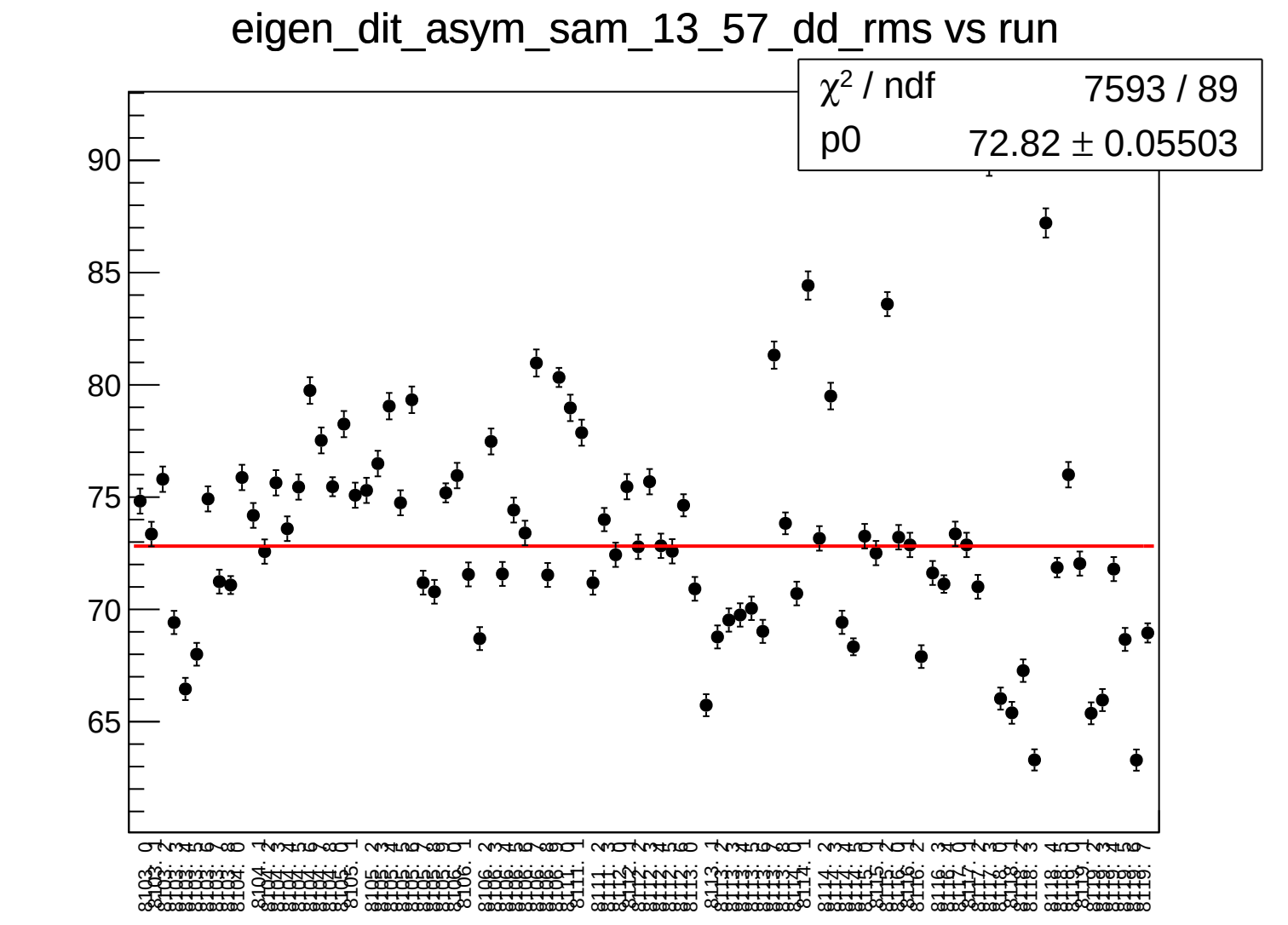

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7593 / 89
p0 72.82 ± 0.05503
90
85
80
75
70
65

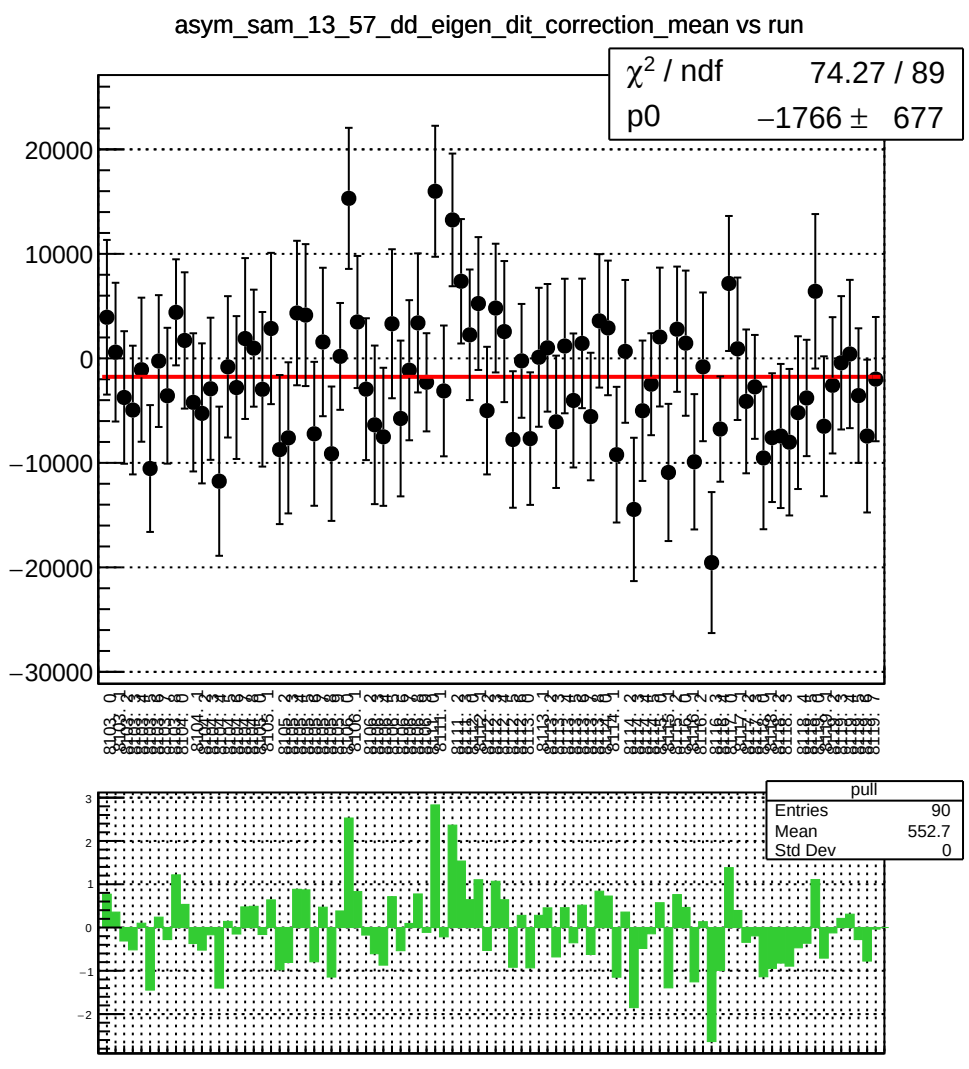

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 74.27 / 89
p0 −1766 ± 677
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 552.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.007058
Std Dev 0.9084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

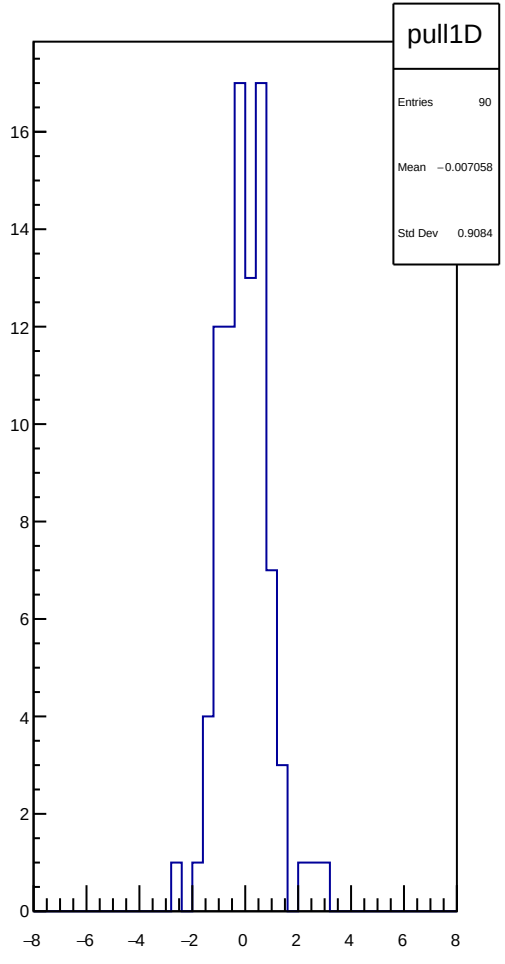

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 5334 / 89
p0 633.9 ± 0.4787
740
720
700
680
660
640
620
600
580
560

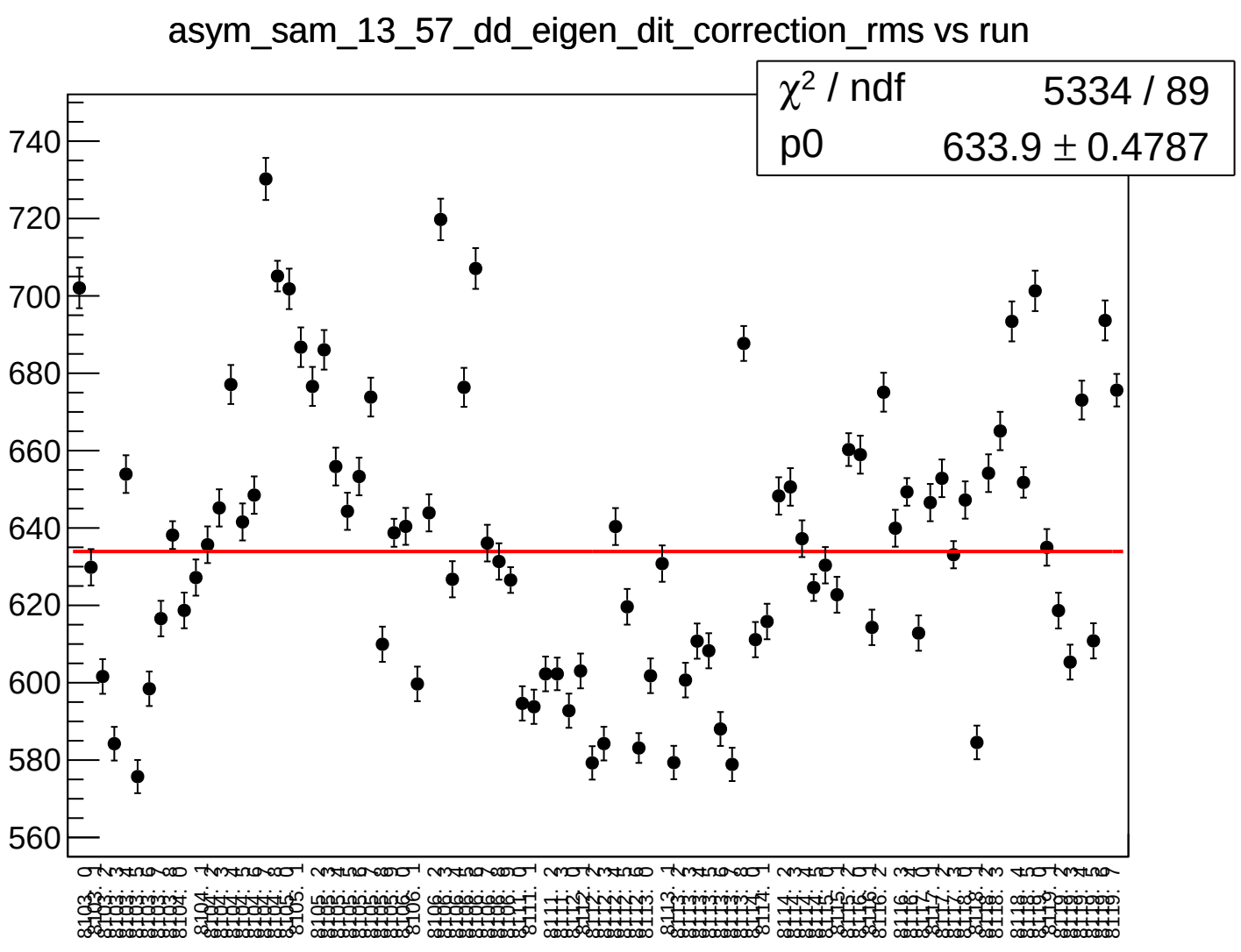

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 95.14 / 89
p0 −131.2 ± 77.82
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 1.254
Std Dev 44.93
2
1
0
−1

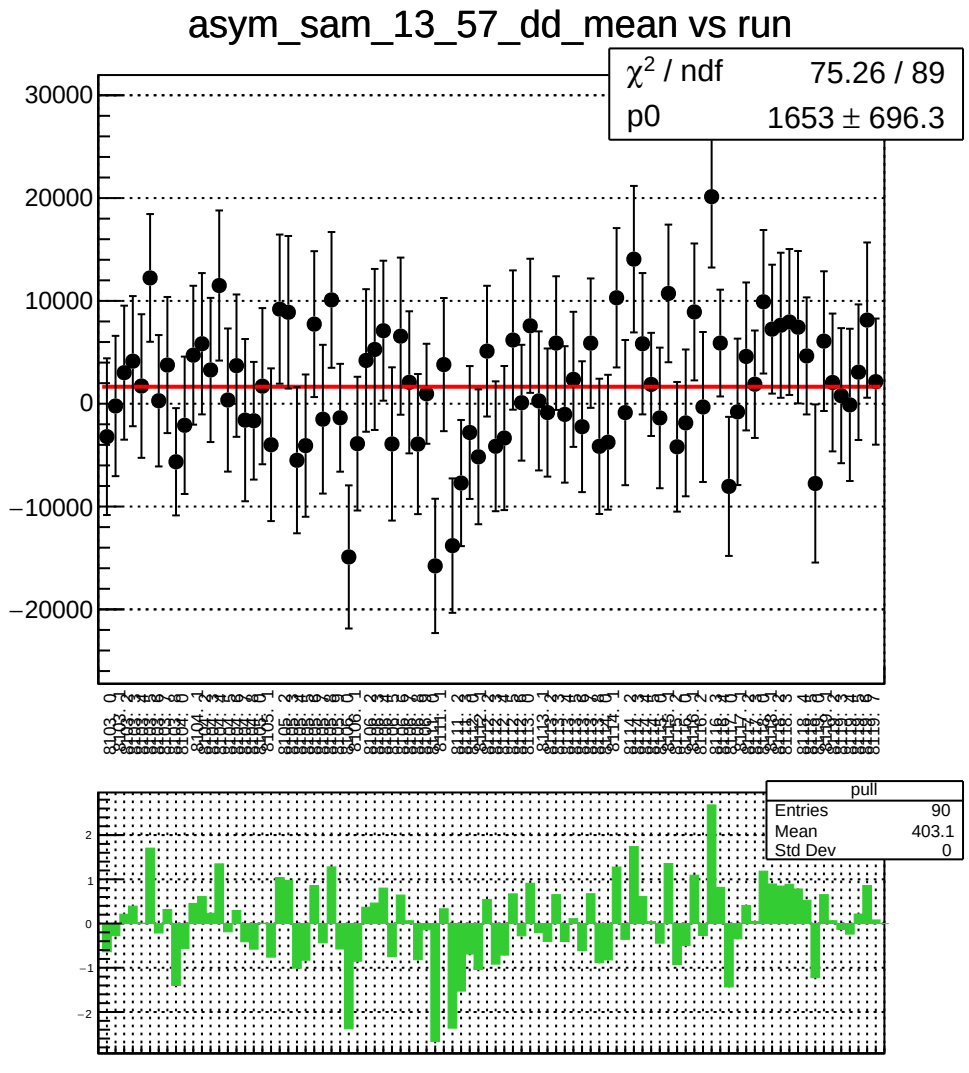

pull1D
Entries 90
Mean 0.03183
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

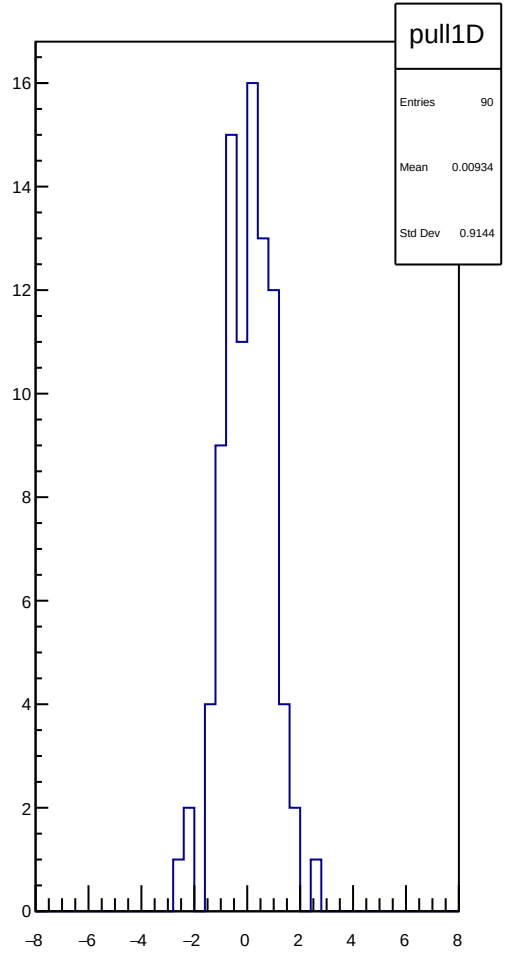

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7593 / 89
p0 72.82 ± 0.05503
90
85
80
75
70
65

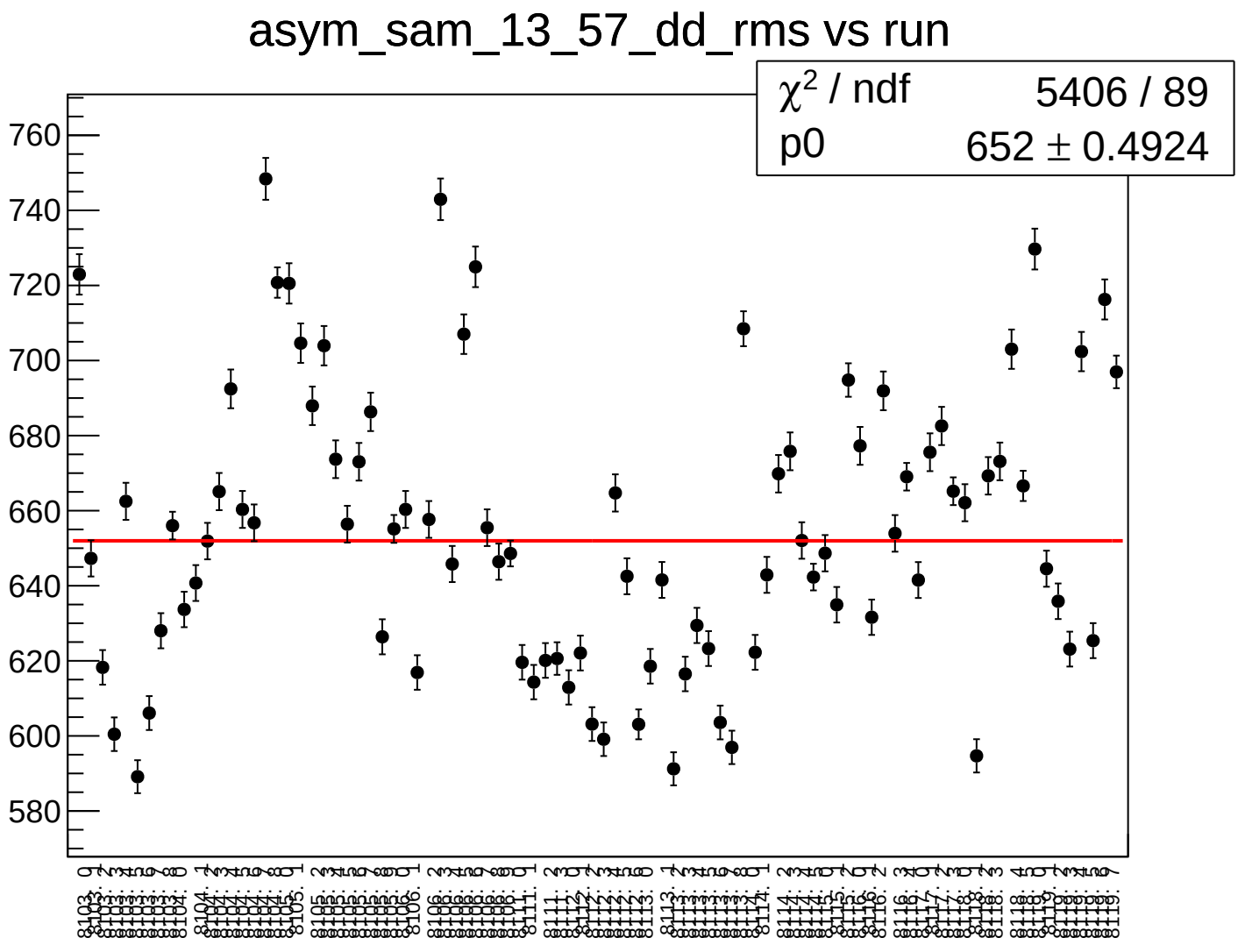

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.27 / 89
p0 −1766 ± 677
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 552.7
Std Dev 0
3
2
1
0
−1
−2

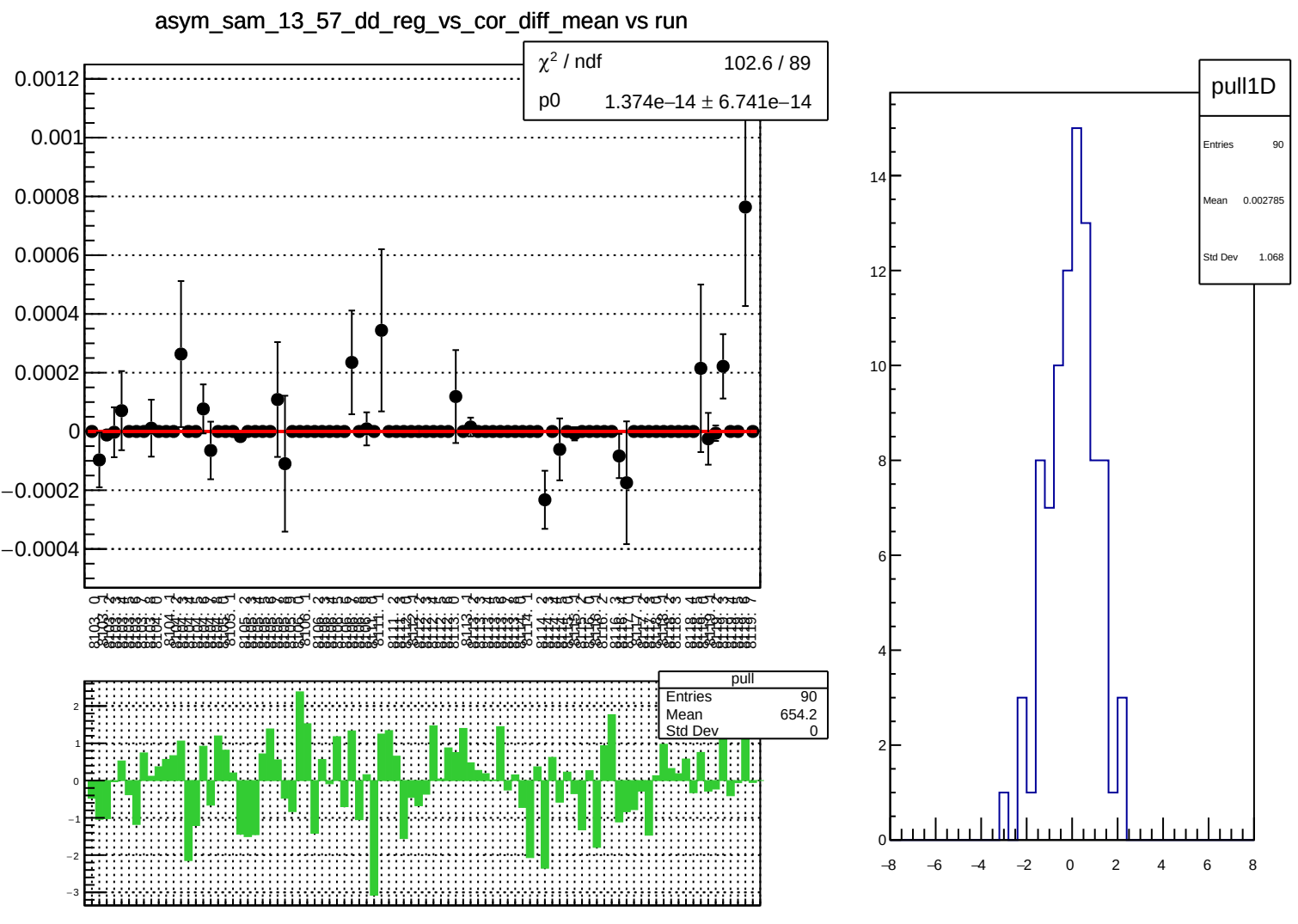

pull1D
Entries 90
Mean −0.007058
Std Dev 0.9084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

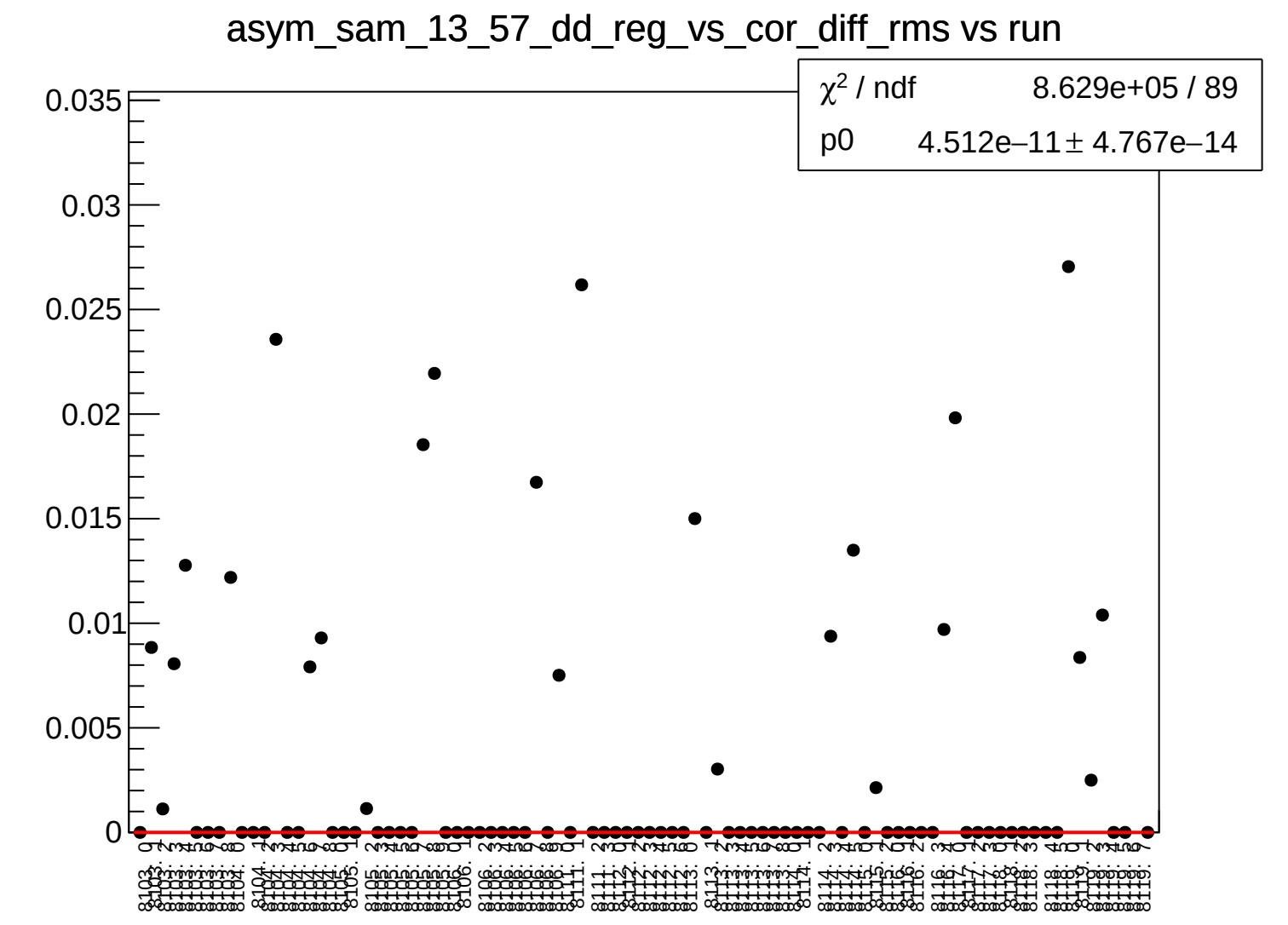

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 5334 / 89
p0 633.9 ± 0.4787
740
720
700
680
660
640
620
600
580
560

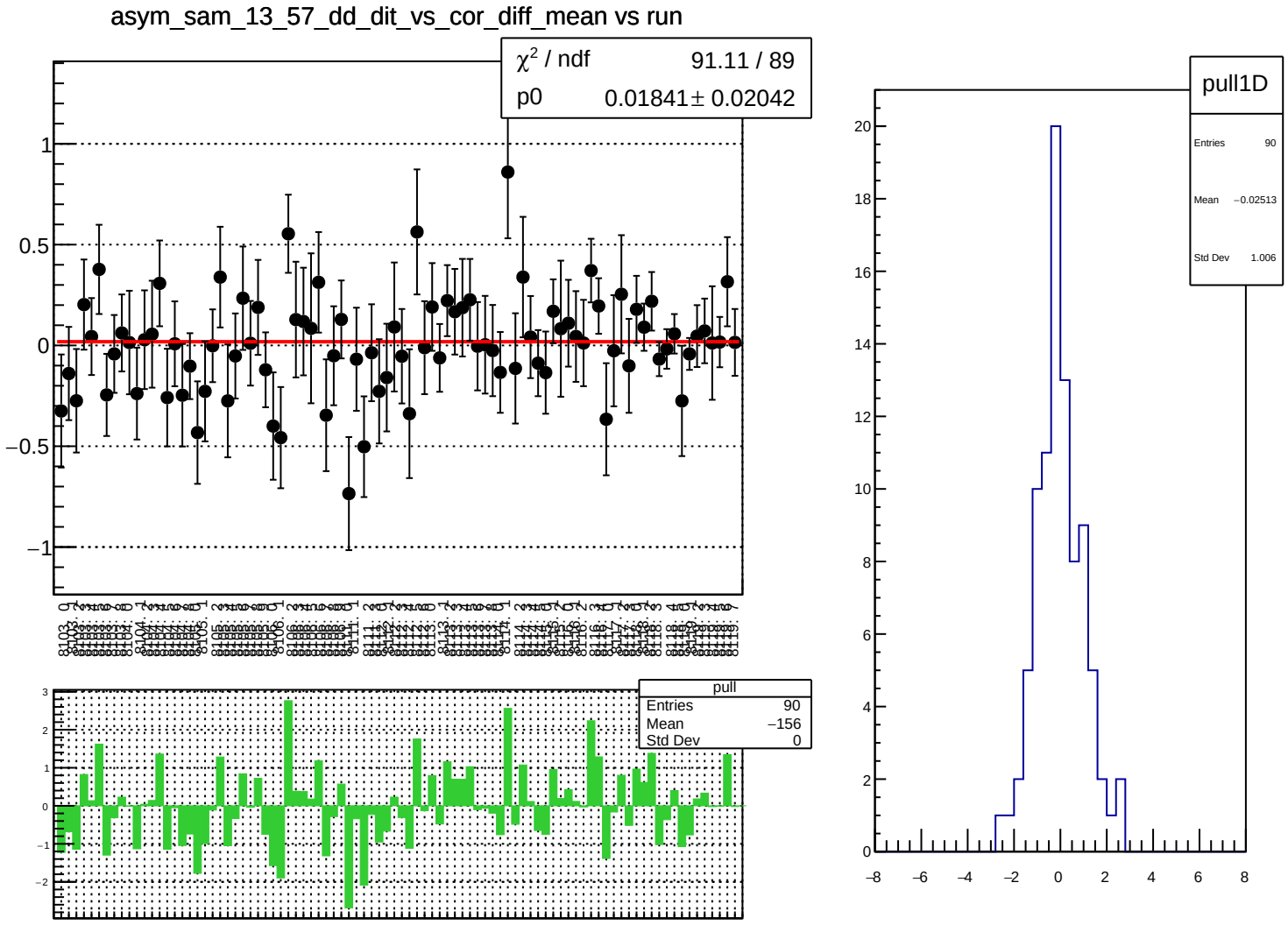

asym_sam_13_57_dd_mean vs run
χ² / ndf 75.26 / 89
p0 1653 ± 696.3
30000
20000
10000
0
−10000
−20000
pull
Entries 90
Mean 403.1
Std Dev 0
2
1
0
−1
−2

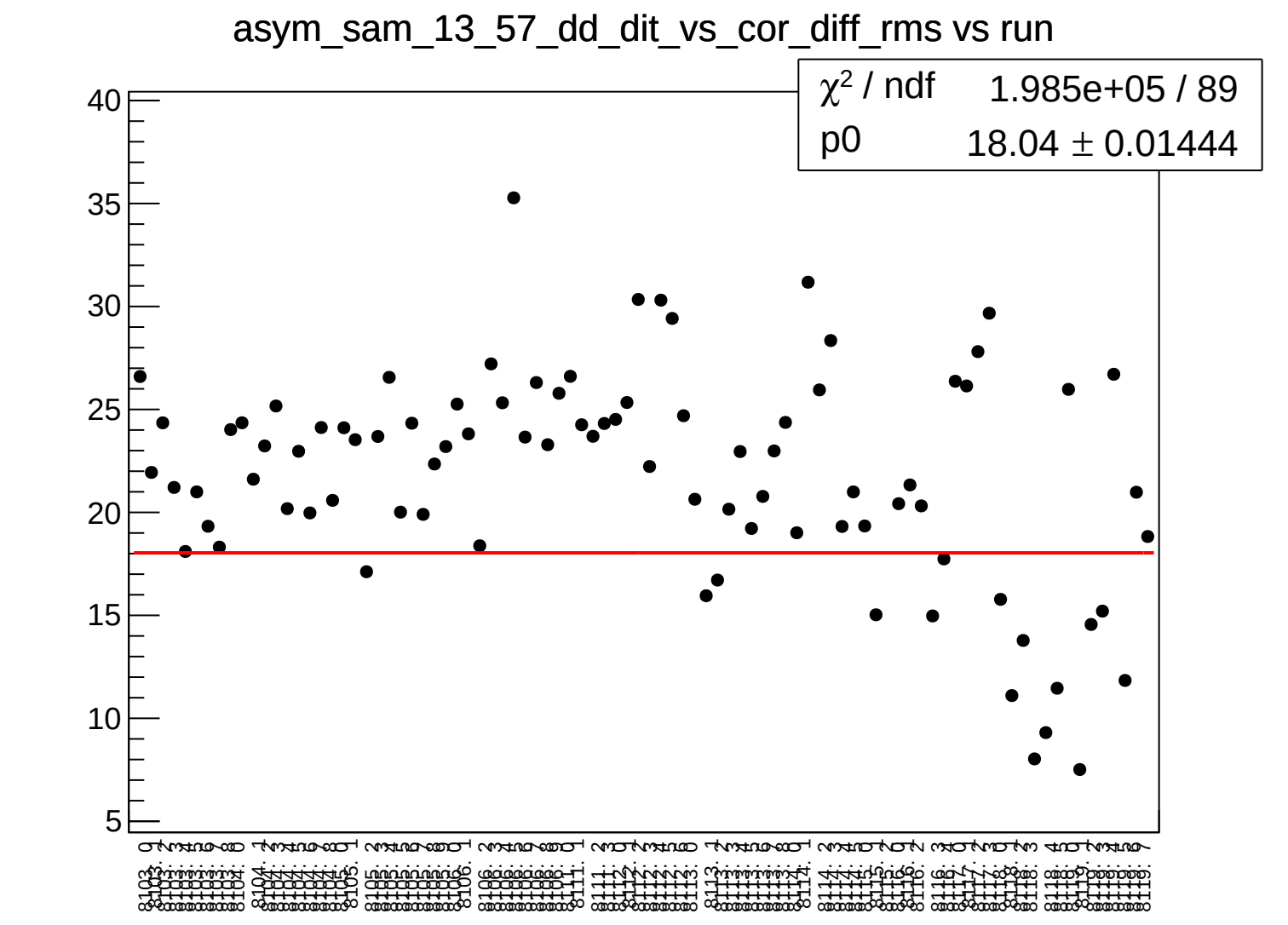

pull1D
Entries 90
Mean 0.00934
Std Dev 0.9144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

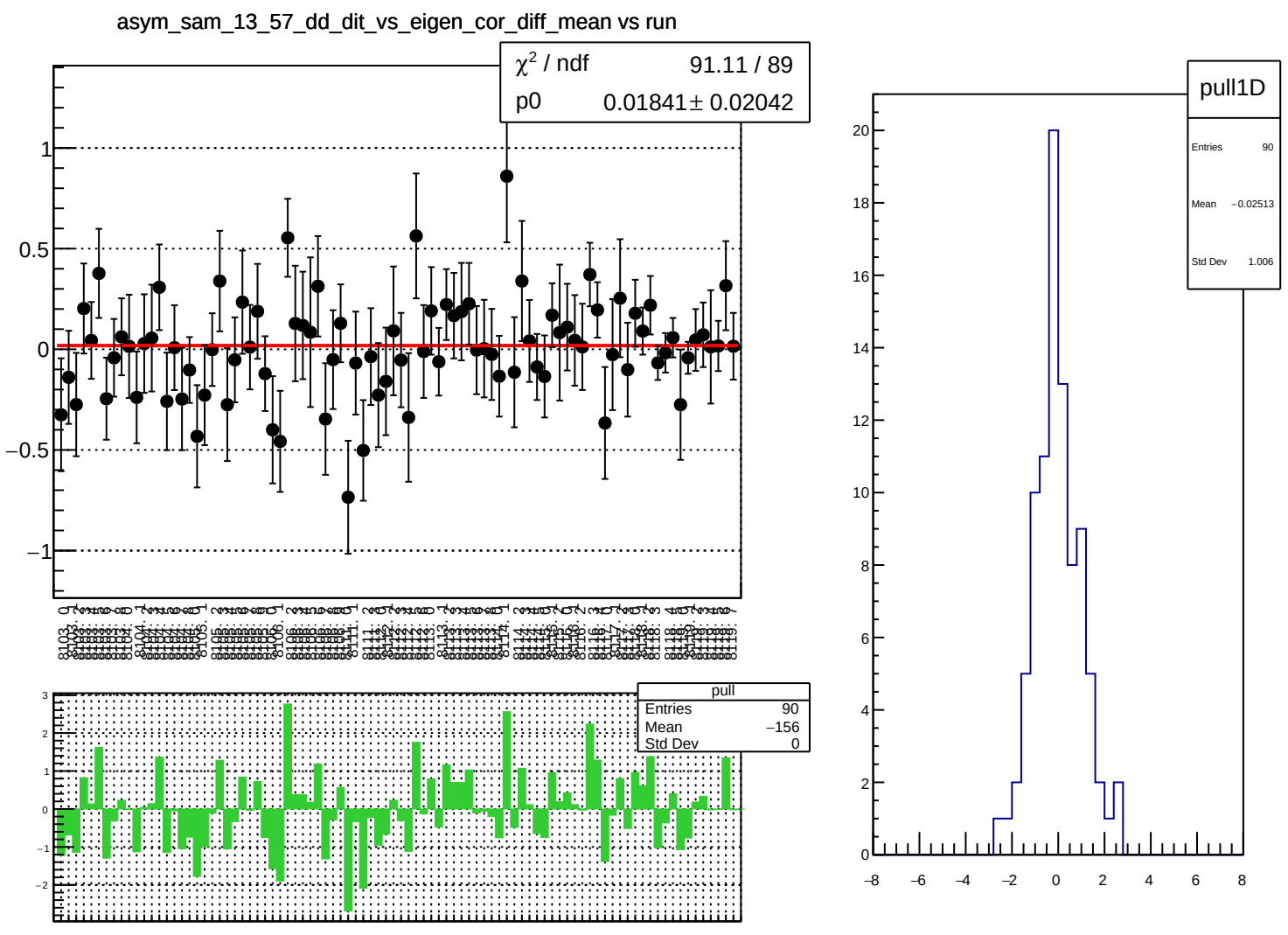

asym_sam_13_57_dd_rms vs run
χ² / ndf 5406 / 89
p0 652 ± 0.4924
760
740
720
700
680
660
640
620
600
580

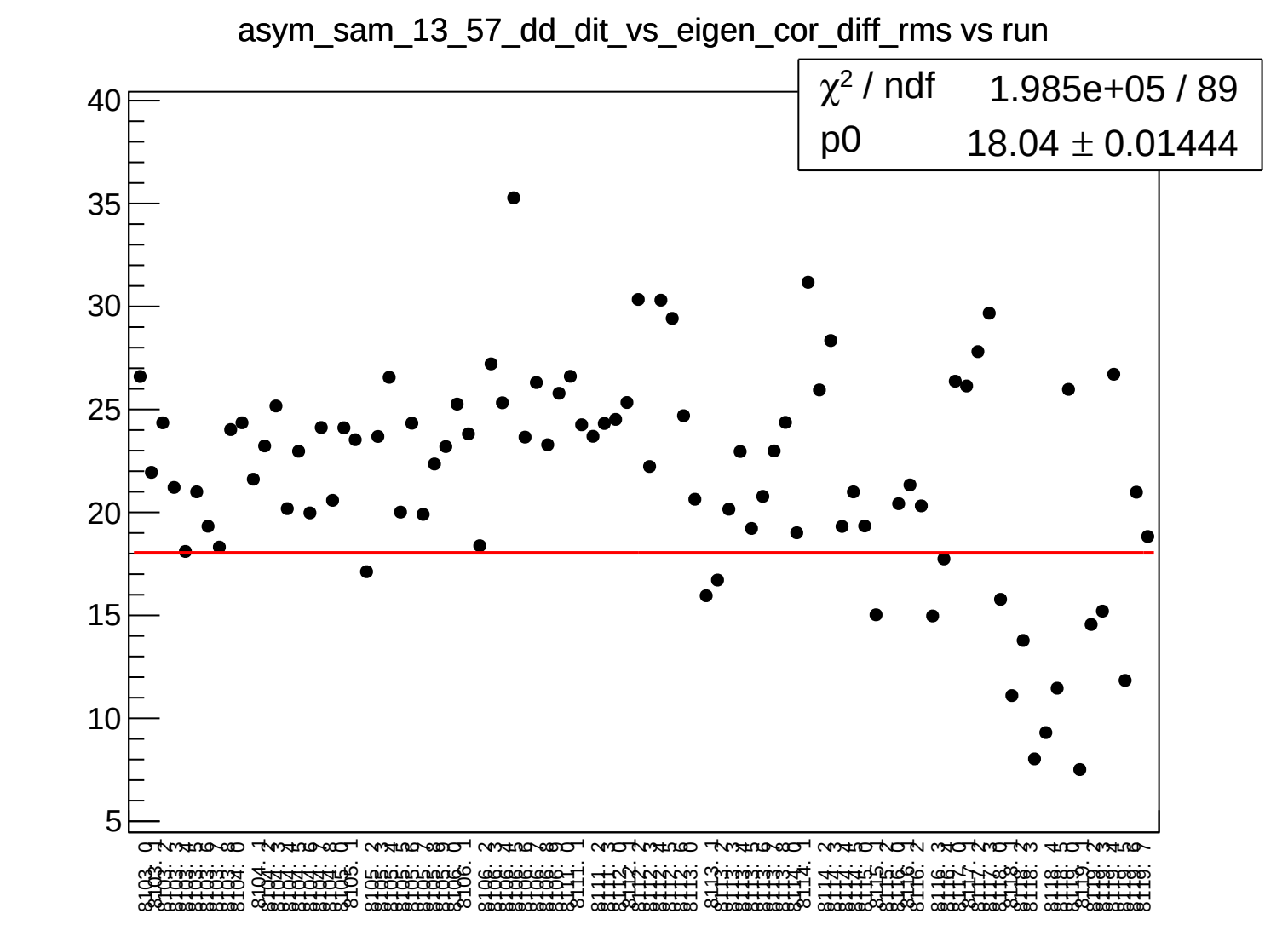

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 89
p0 1.374e−14 ± 6.741e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 90
Mean 654.2
Std Dev 0
pull1D
Entries 90
Mean 0.002785
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

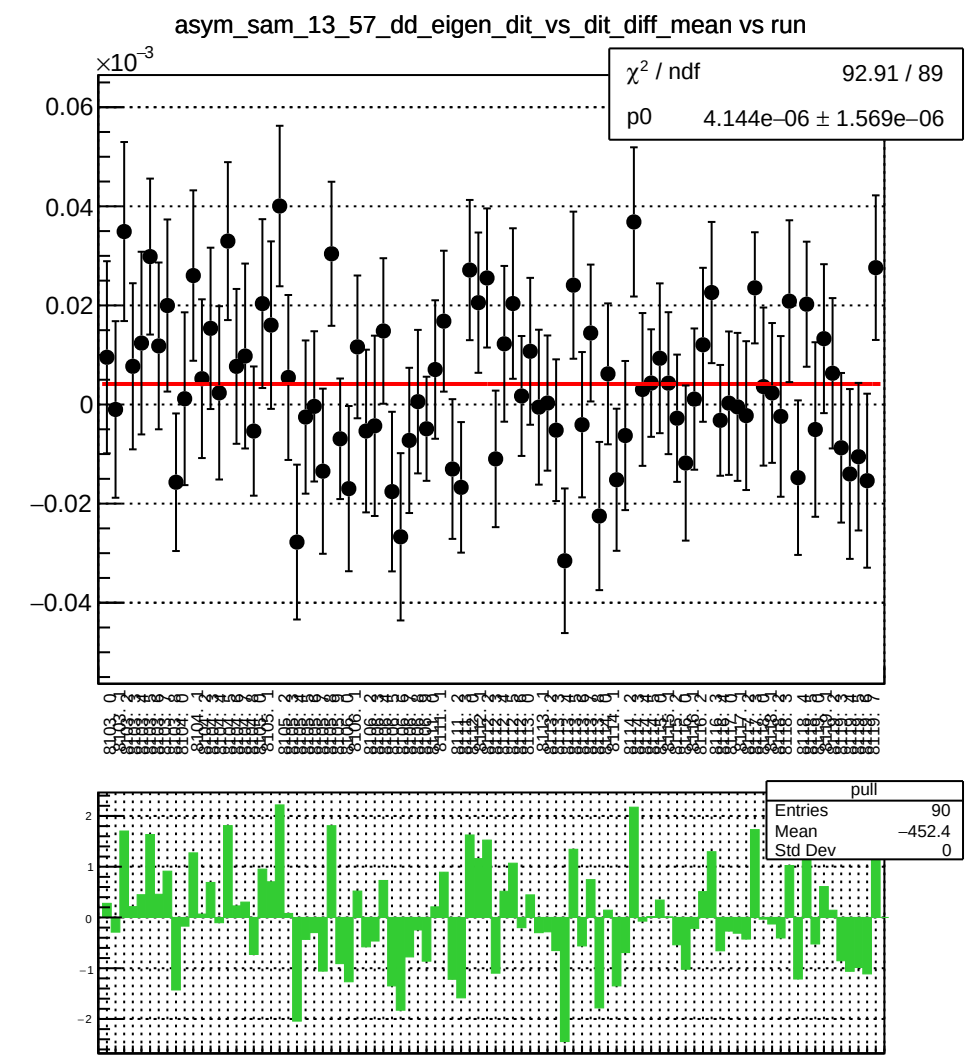

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.629e+05 / 89
p0 4.512e−11 ± 4.767e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

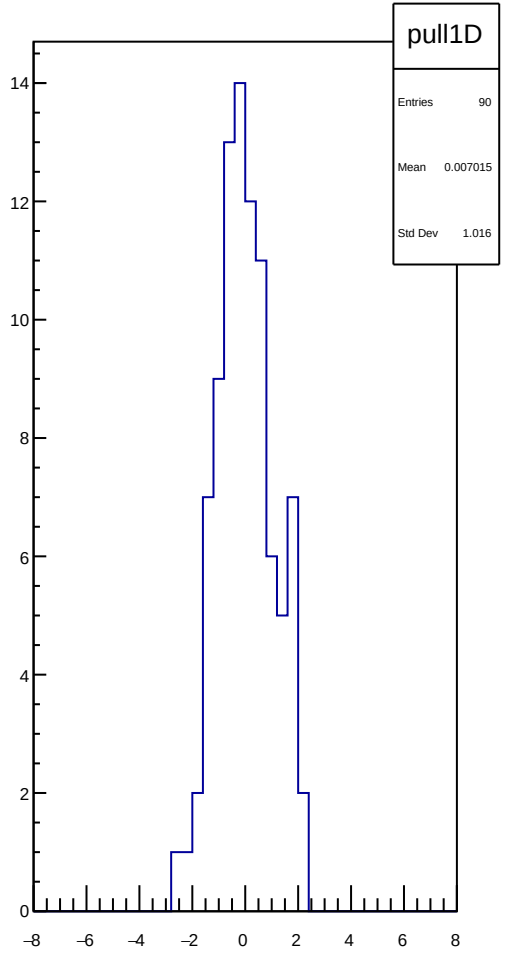

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.11 / 89
p0 0.01841 ± 0.02042
pull
Entries 90
Mean −156
Std Dev 0
pull1D
Entries 90
Mean −0.02513
Std Dev 1.006

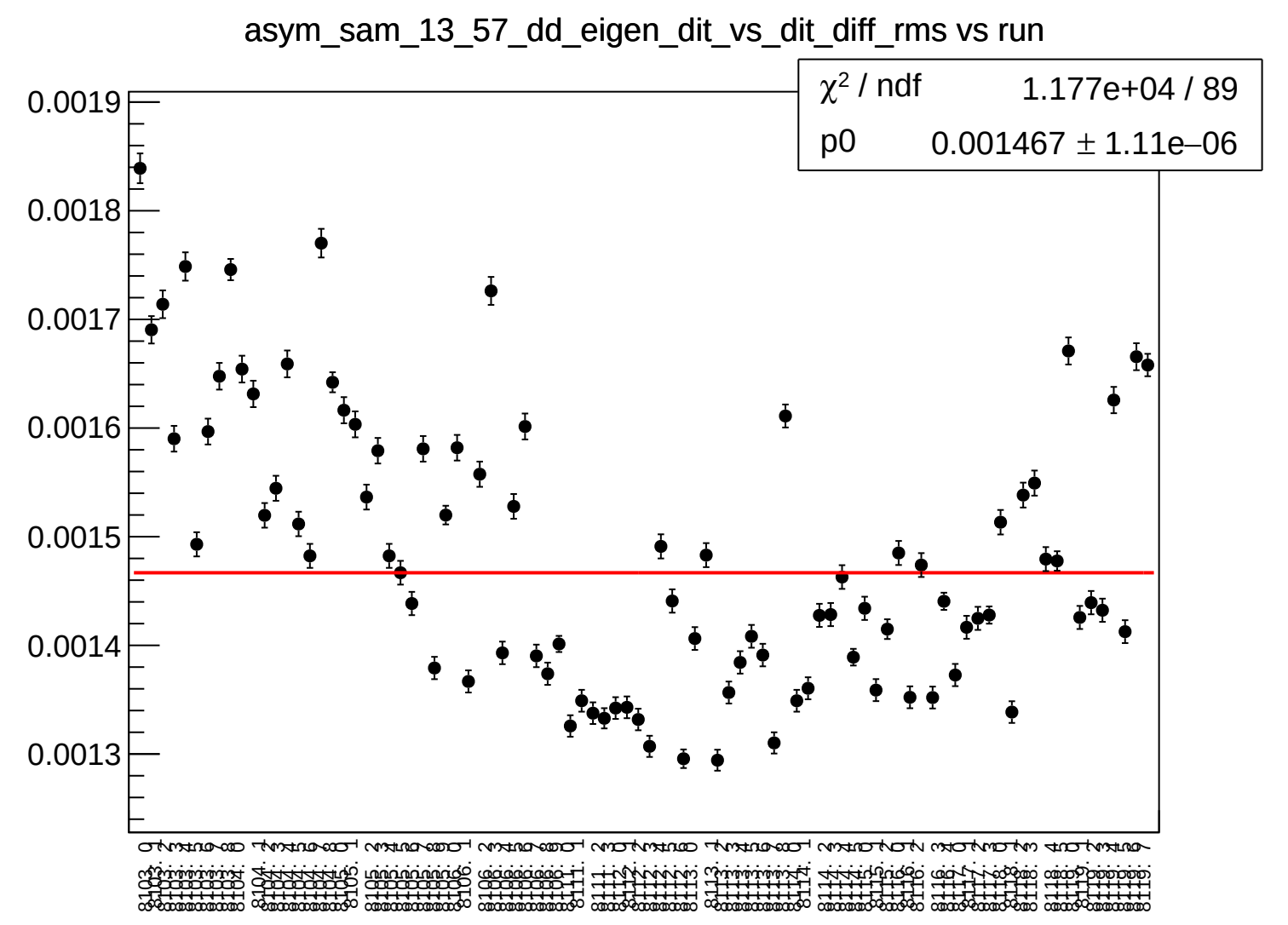

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.985e+05 / 89
p0 18.04 ± 0.01444
40
35
30
25
20
15
10
5

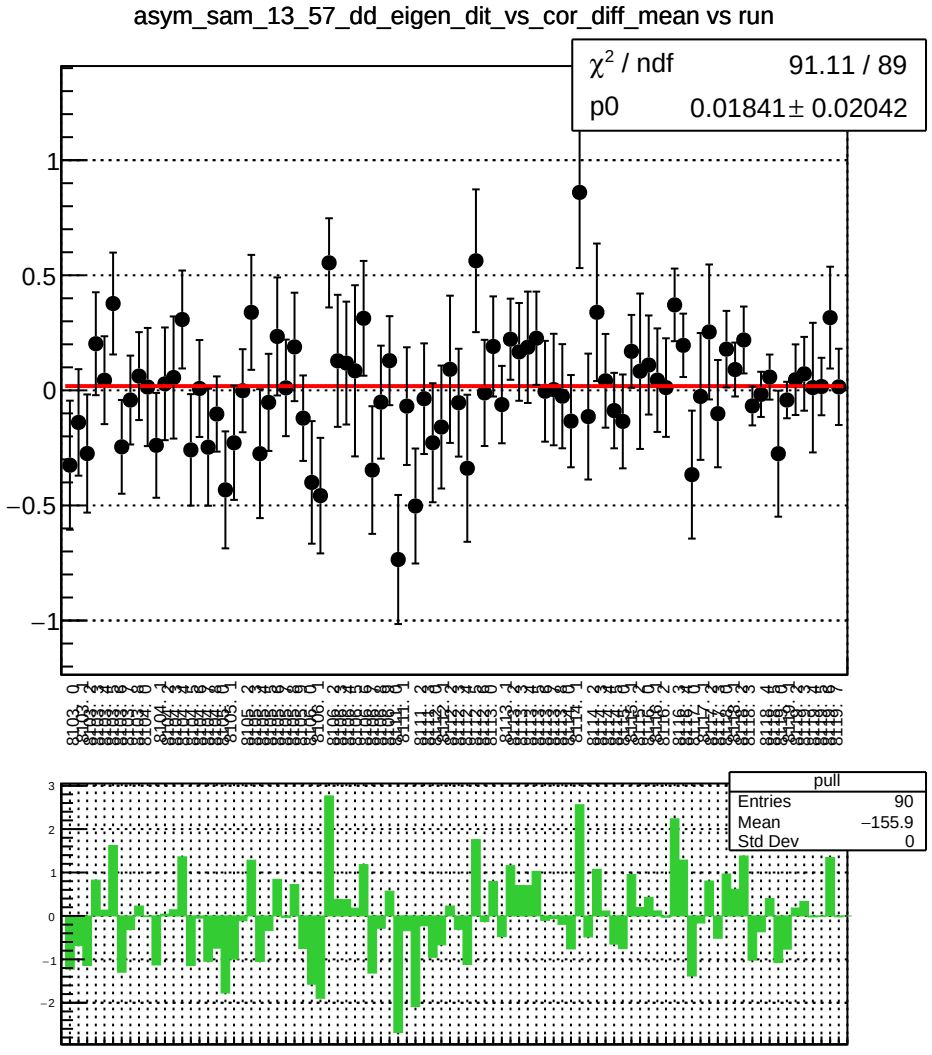

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.11 / 89
p0 0.01841 ± 0.02042
pull
Entries 90
Mean −156
Std Dev 0
pull1D
Entries 90
Mean −0.02513
Std Dev 1.006

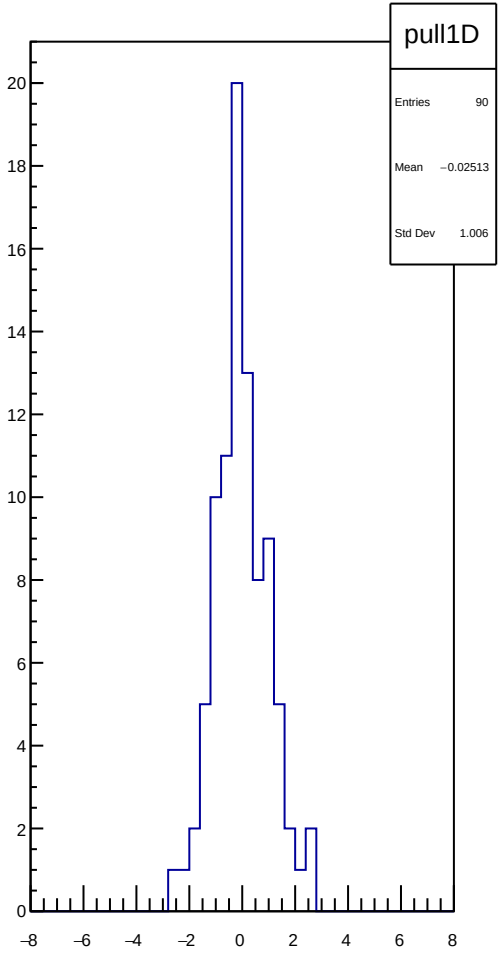

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.985e+05 / 89
p0 18.04 ± 0.01444
40
35
30
25
20
15
10
5

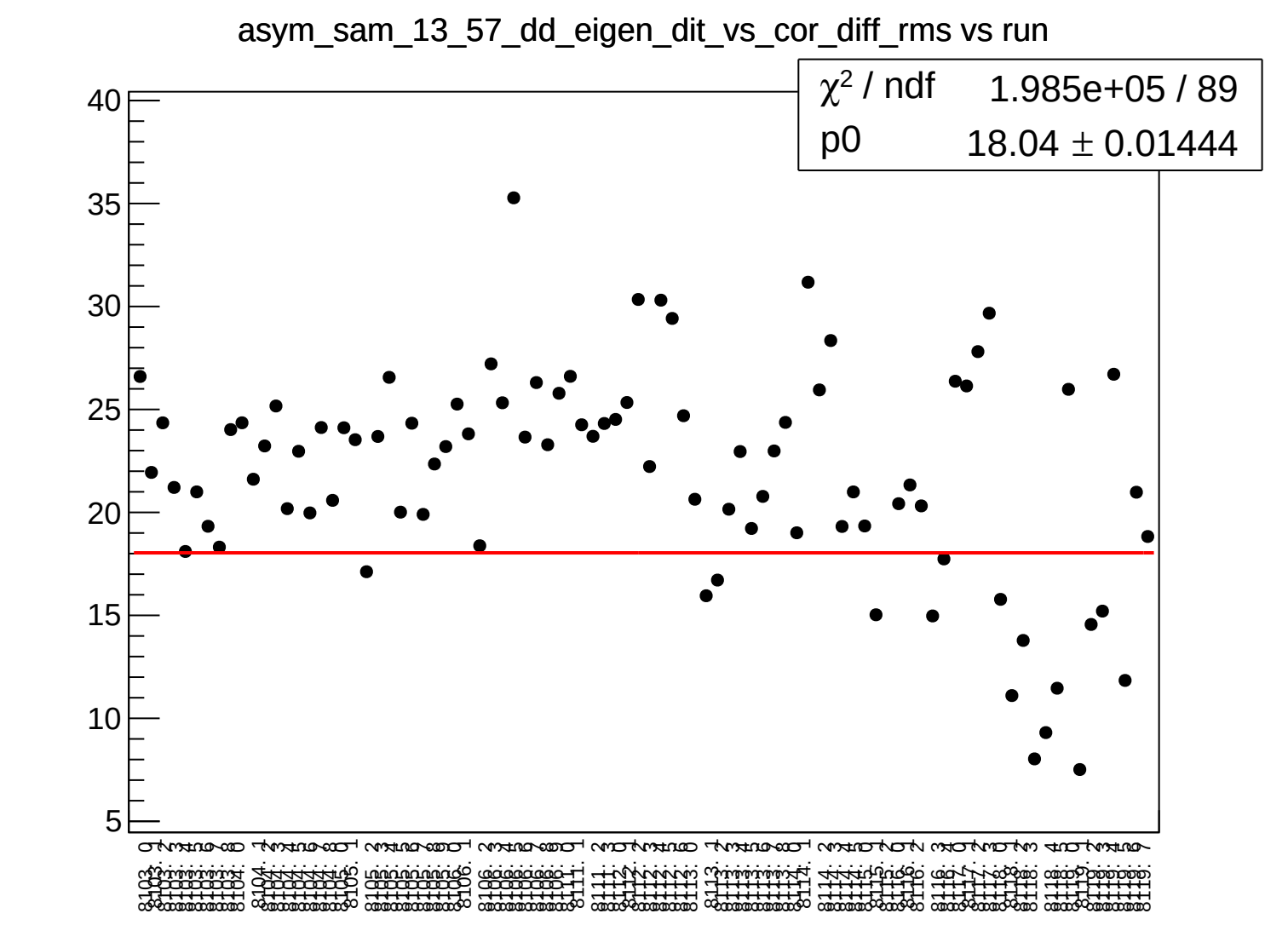

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.91 / 89
p0 4.144e−06 ± 1.569e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 90
Mean −452.4
Std Dev 0
2
1
0
−1
−2

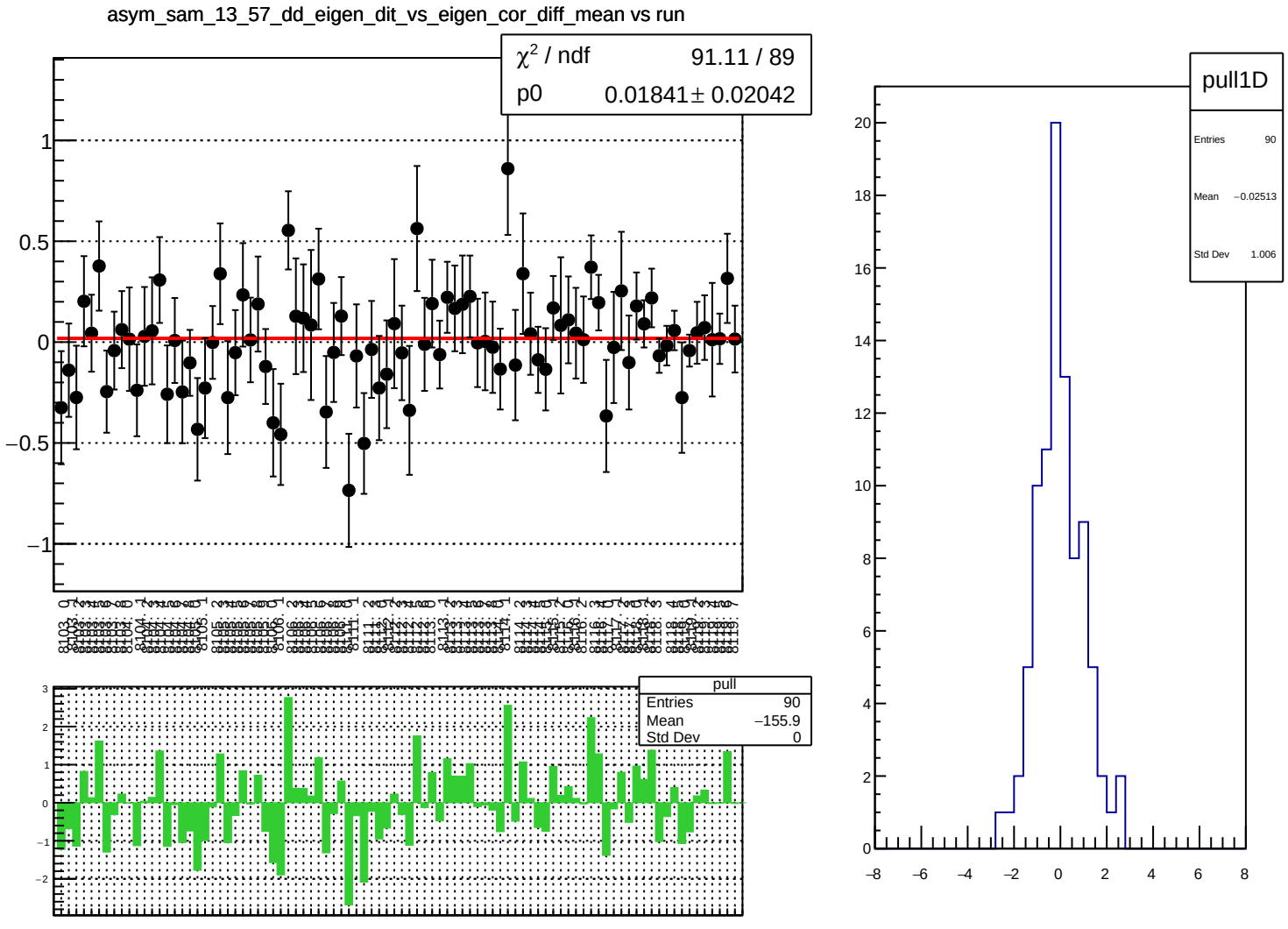

pull1D
Entries 90
Mean 0.007015
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

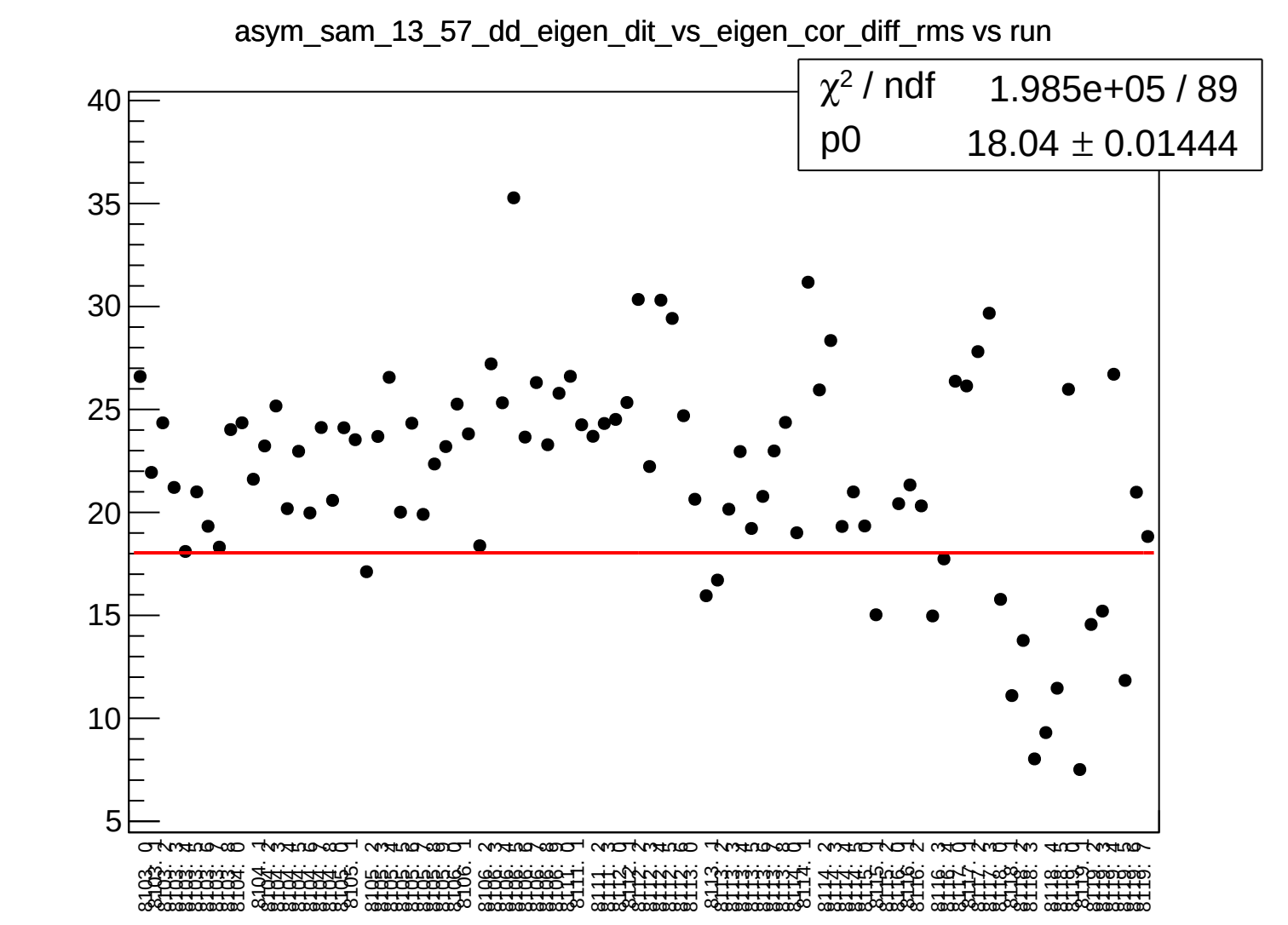

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.177e+04 / 89
p0 0.001467 ± 1.11e–06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

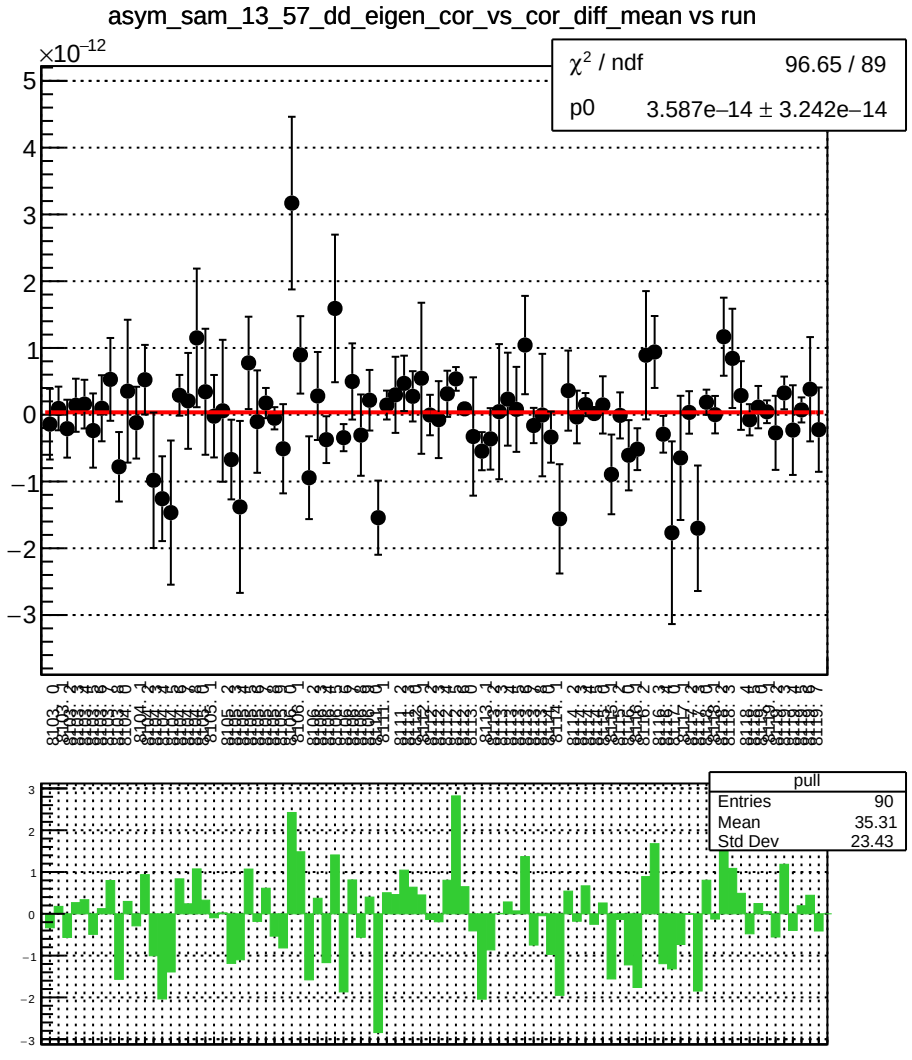

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.11 / 89
p0 0.01841 ± 0.02042
pull
Entries 90
Mean −155.9
Std Dev 0

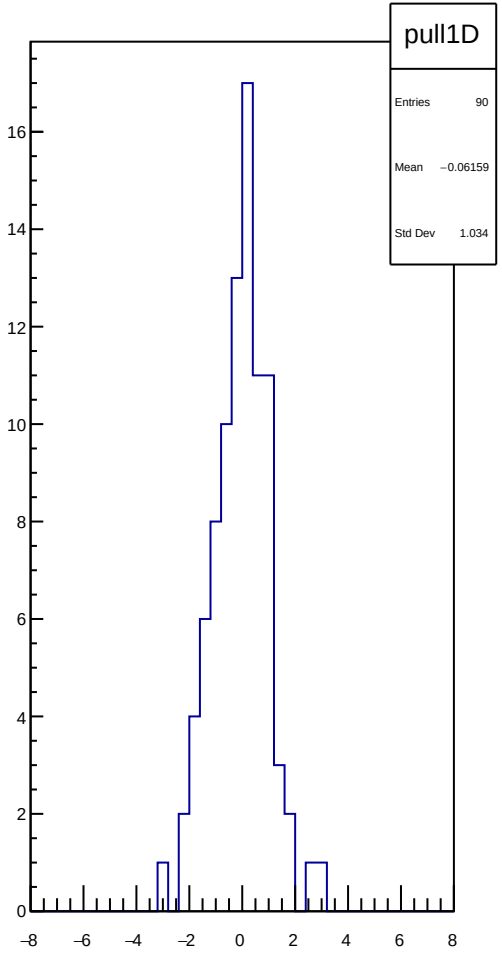

pull1D
Entries 90
Mean −0.02513
Std Dev 1.006

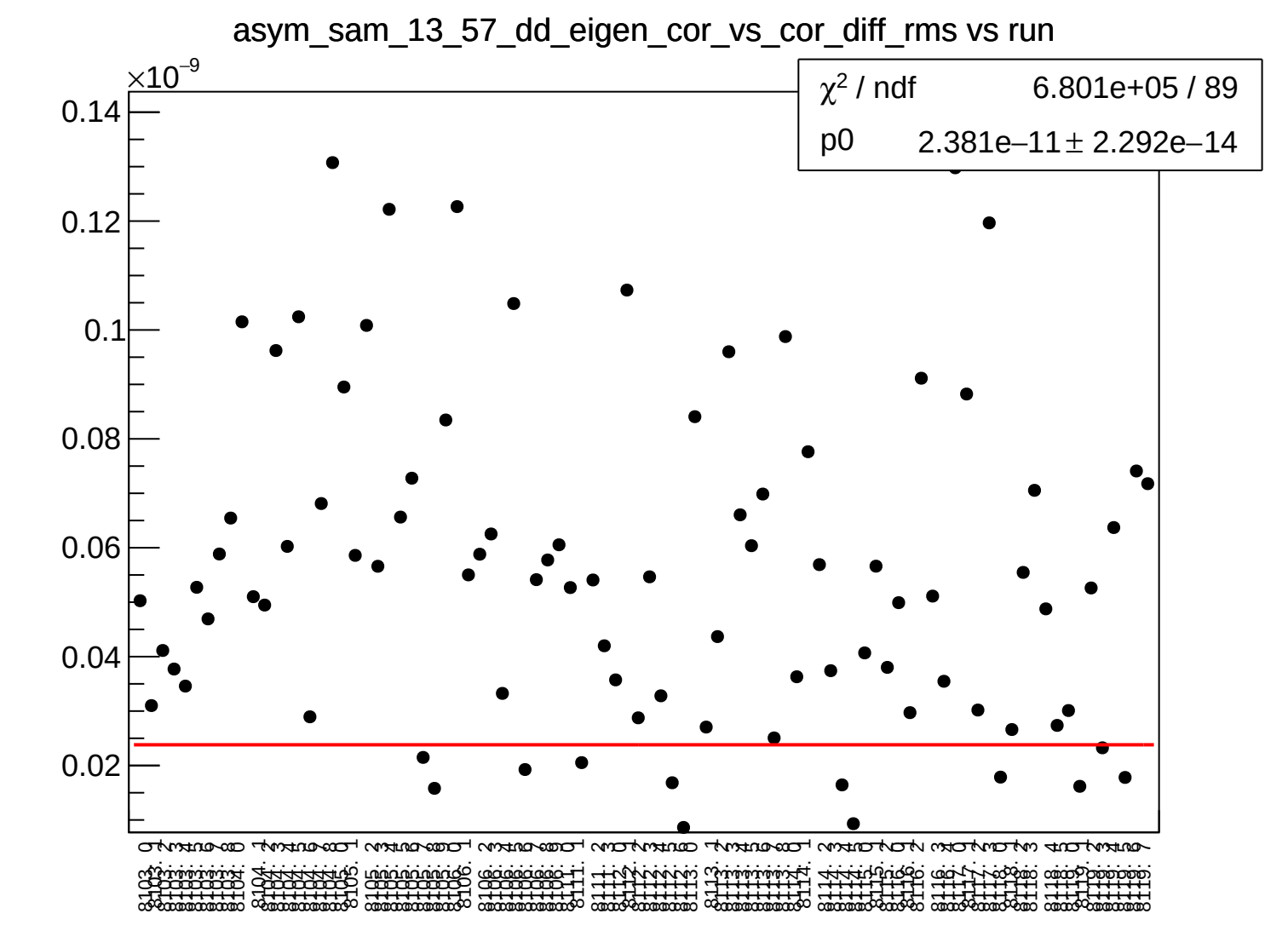

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.985e+05 / 89
p0 18.04 ± 0.01444
40
35
30
25
20
15
10
5

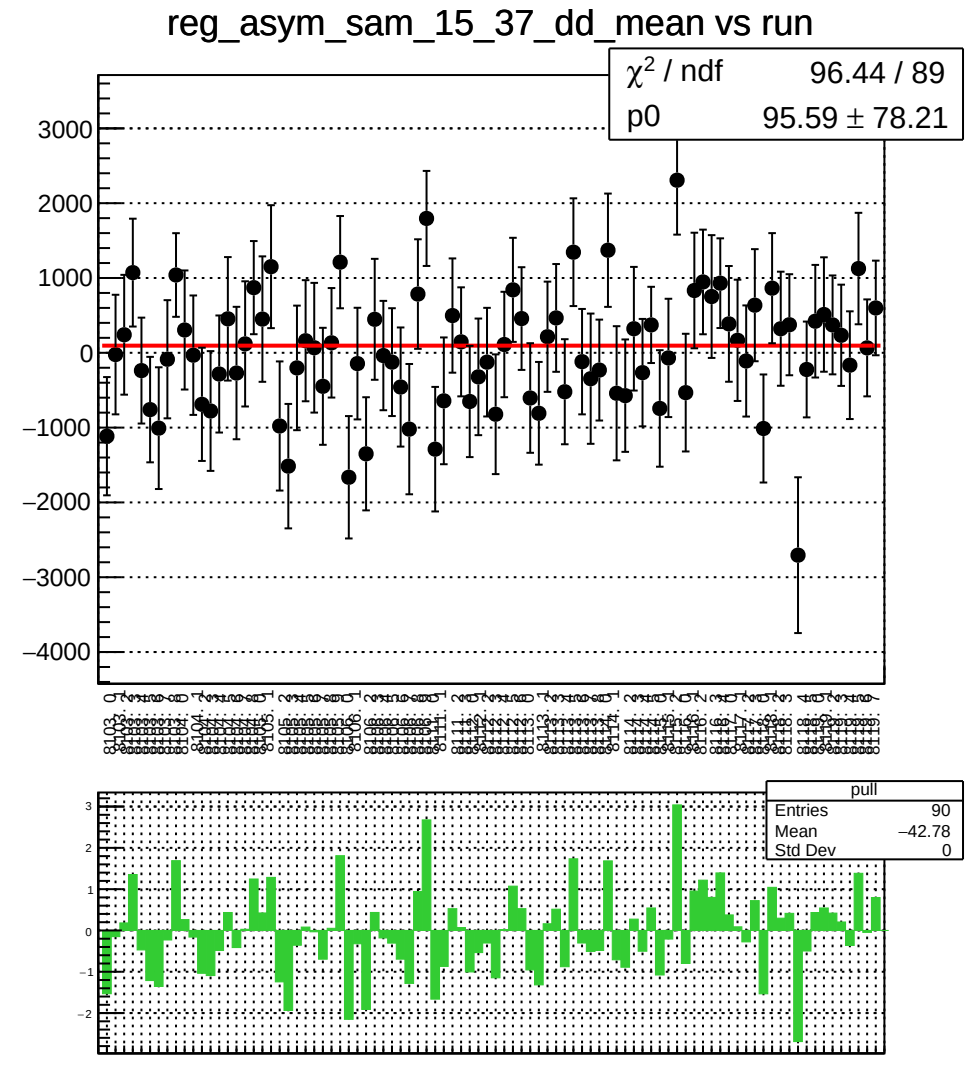

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.11 / 89
p0 0.01841 ± 0.02042
pull
Entries 90
Mean −155.9
Std Dev 0
pull1D
Entries 90
Mean −0.02513
Std Dev 1.006

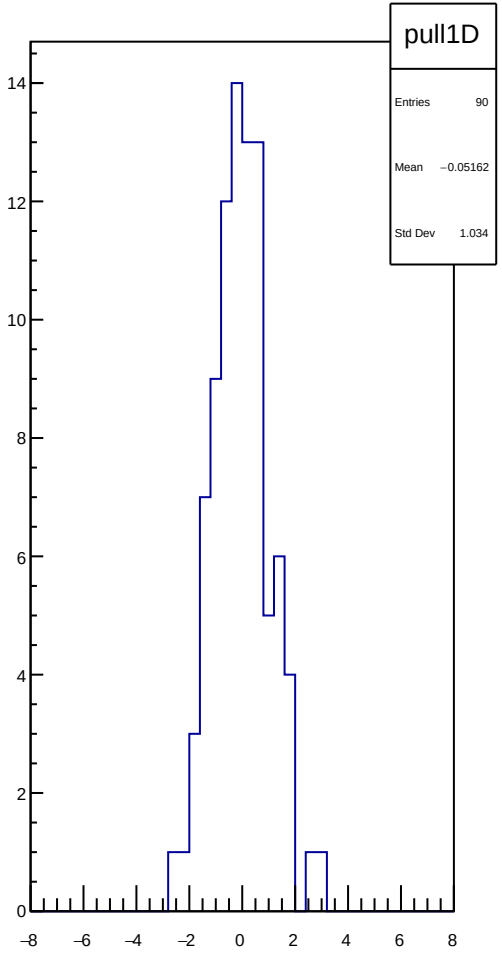

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.985e+05 / 89
p0 18.04 ± 0.01444
40
35
30
25
20
15
10
5

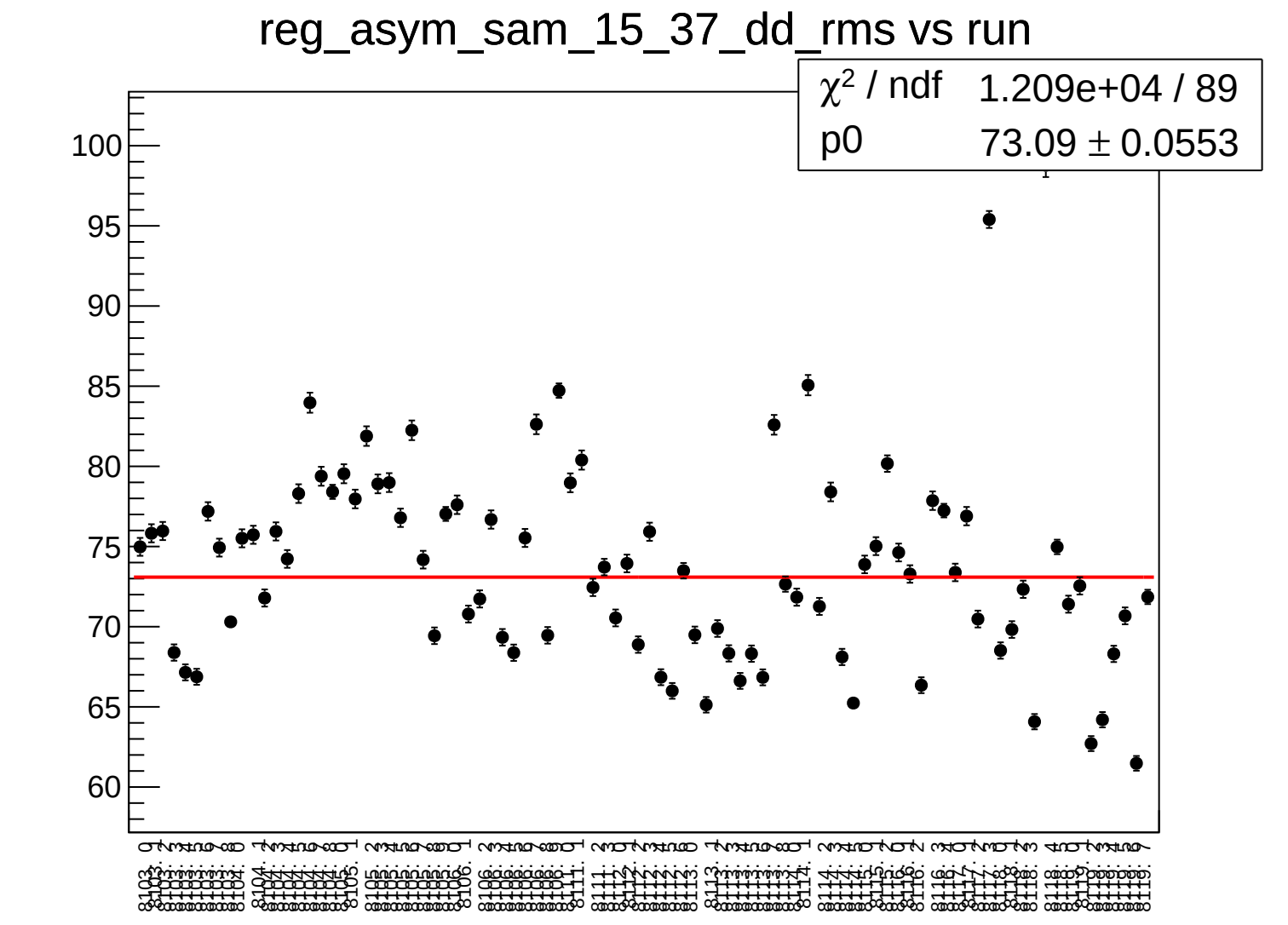

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.65 / 89
p0 3.587e−14 ± 3.242e−14
pull
Entries 90
Mean 35.31
Std Dev 23.43

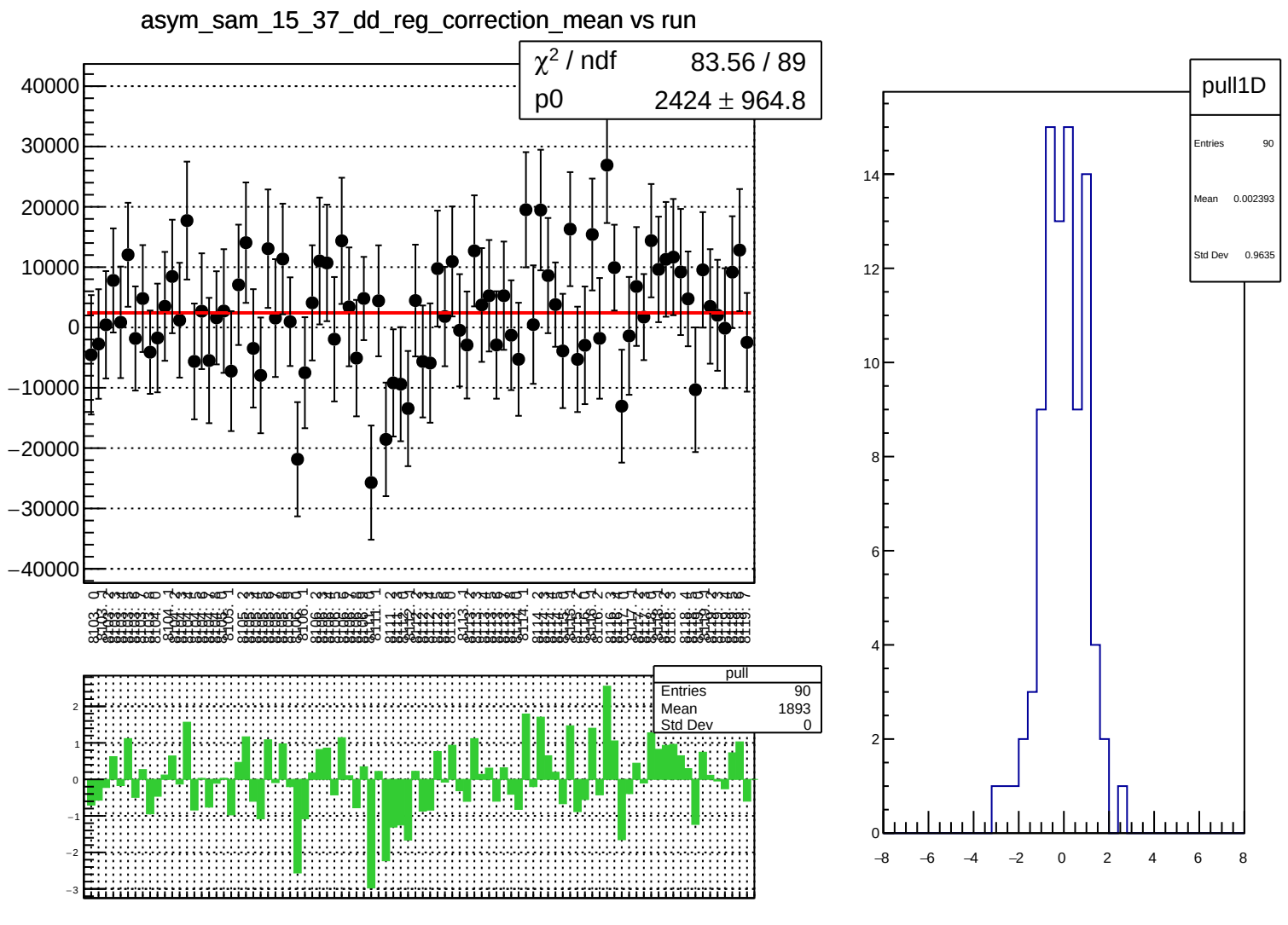

pull1D
Entries 90
Mean −0.06159
Std Dev 1.034

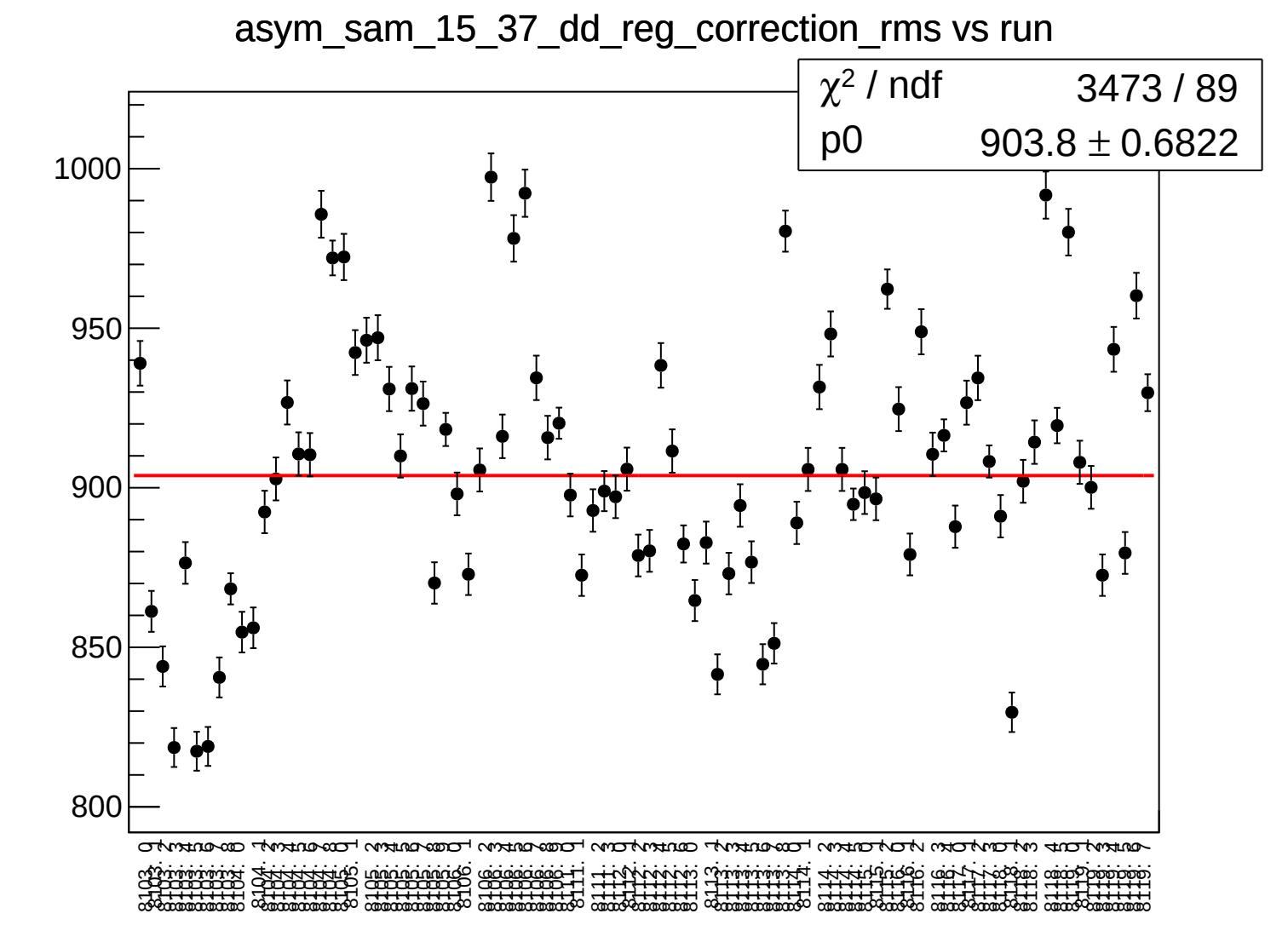

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.801e+05 / 89
p0 2.381e−11 ± 2.292e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

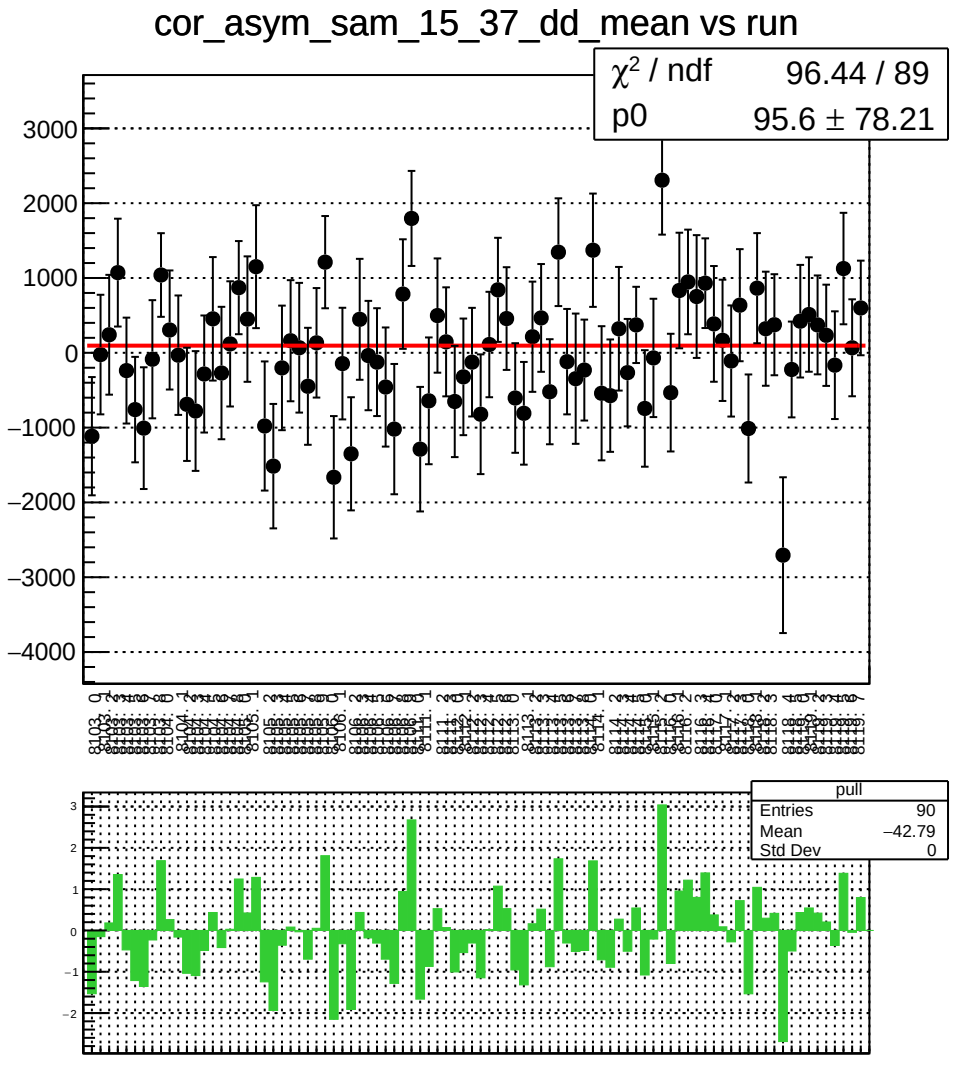

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 96.44 / 89
p0 95.59 ± 78.21
pull
Entries 90
Mean −42.78
Std Dev 0

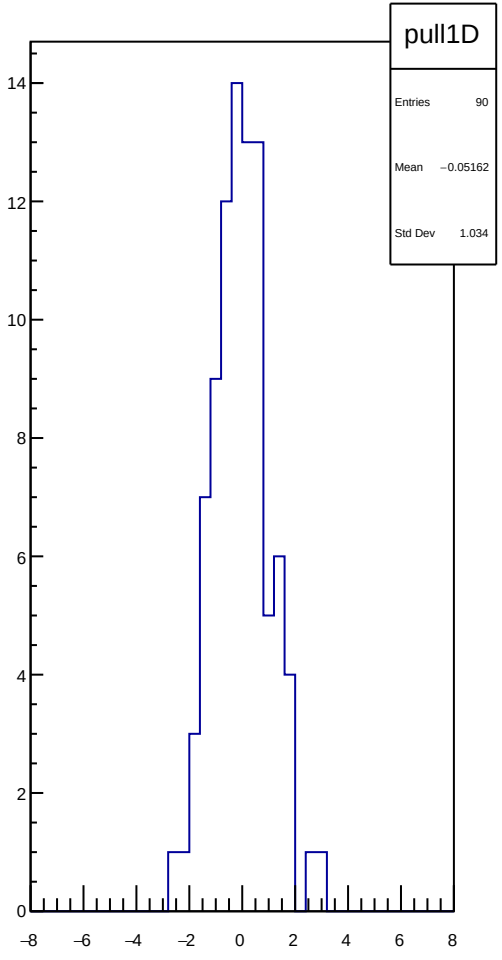

pull1D
Entries 90
Mean −0.05162
Std Dev 1.034

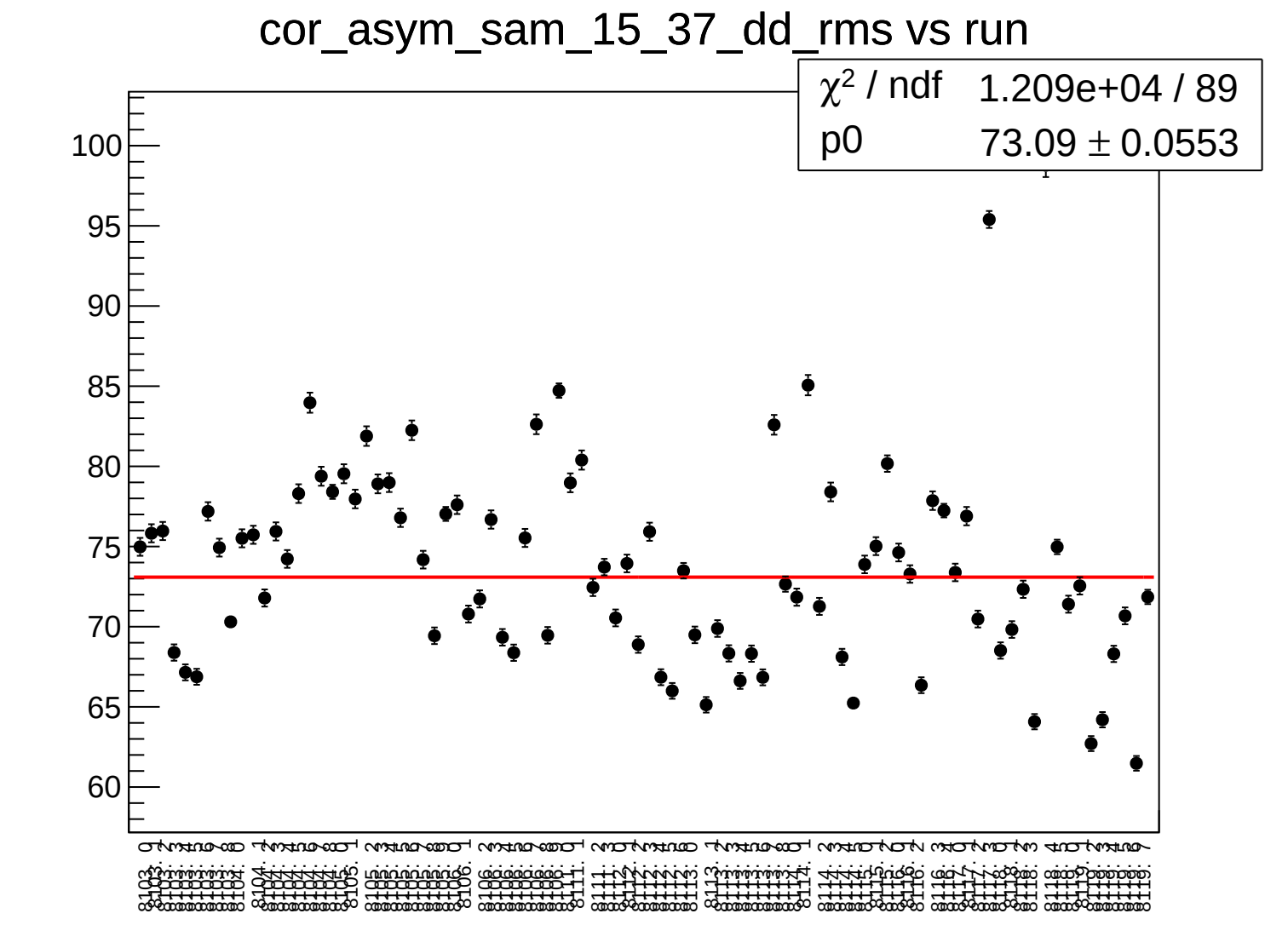

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.209e+04 / 89
p0 73.09 ± 0.0553
100
95
90
85
80
75
70
65
60

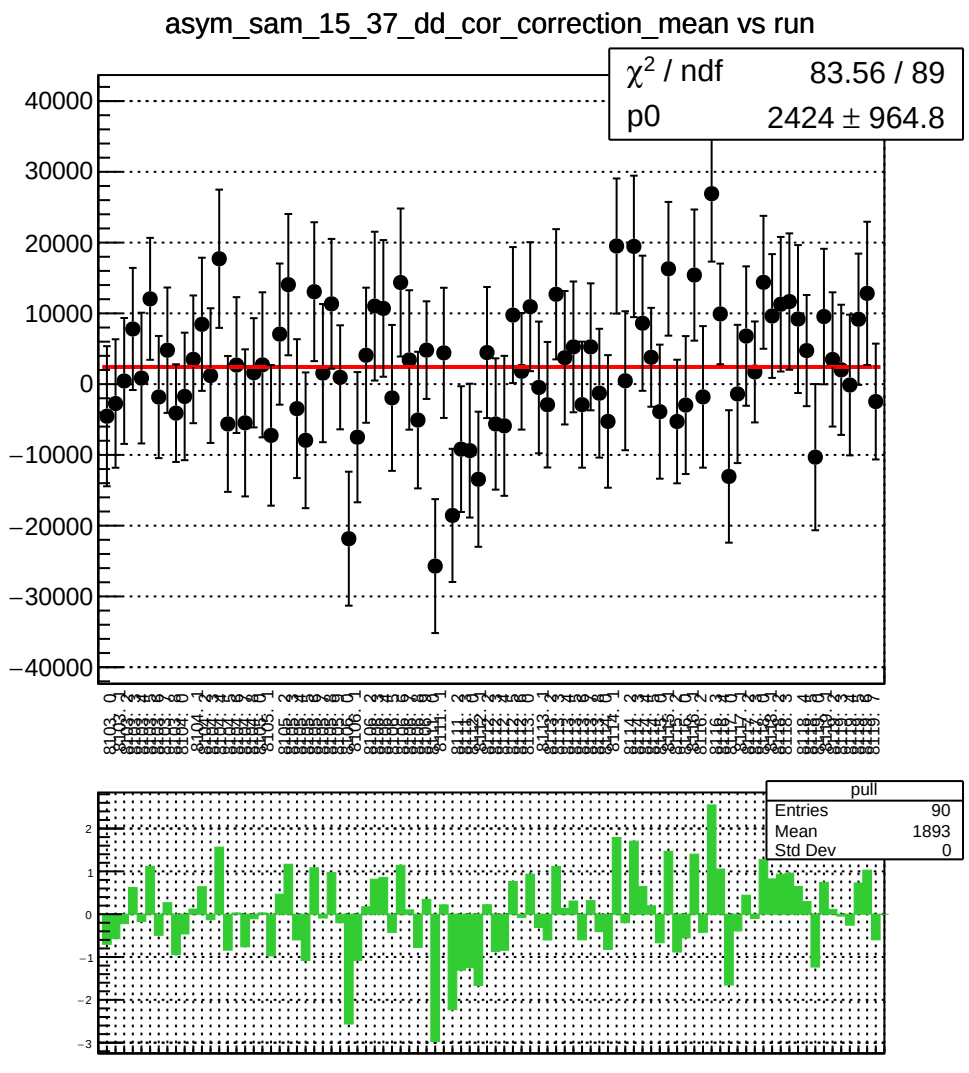

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 83.56 / 89
p0 2424 ± 964.8
pull
Entries 90
Mean 1893
Std Dev 0
pull1D
Entries 90
Mean 0.002393
Std Dev 0.9635

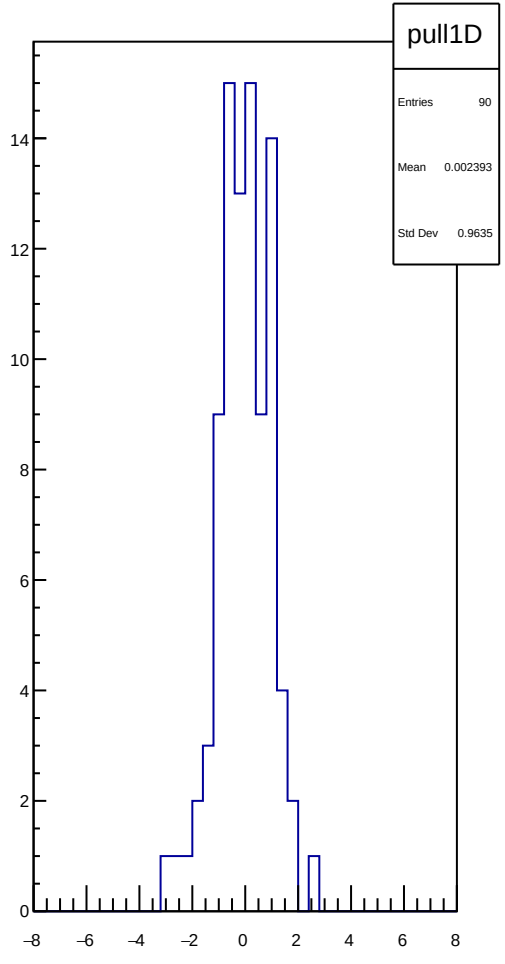

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 3473 / 89
p0 903.8 ± 0.6822
1000
950
900
850
800

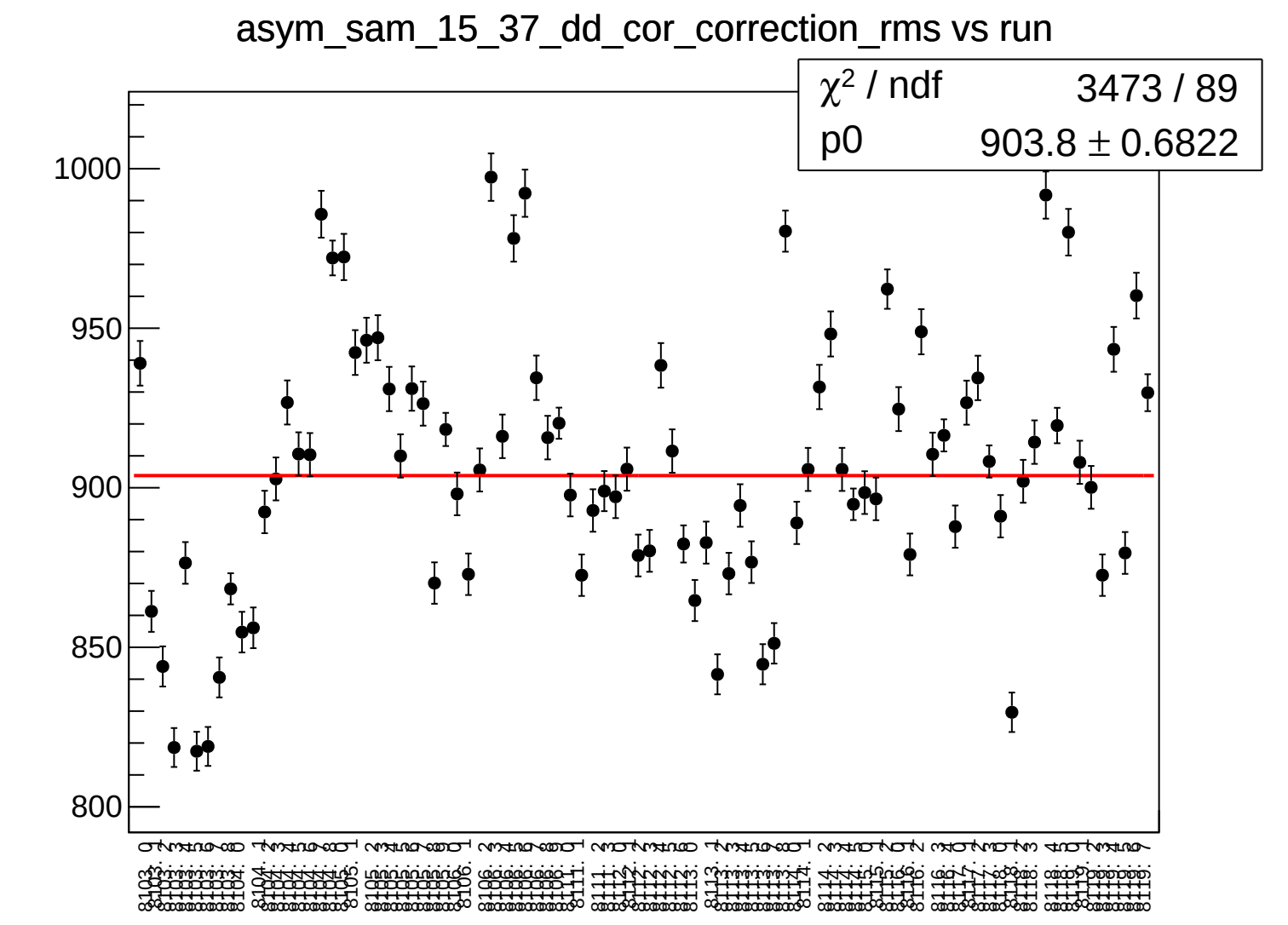

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 96.44 / 89
p0 95.6 ± 78.21
pull
Entries 90
Mean −42.79
Std Dev 0

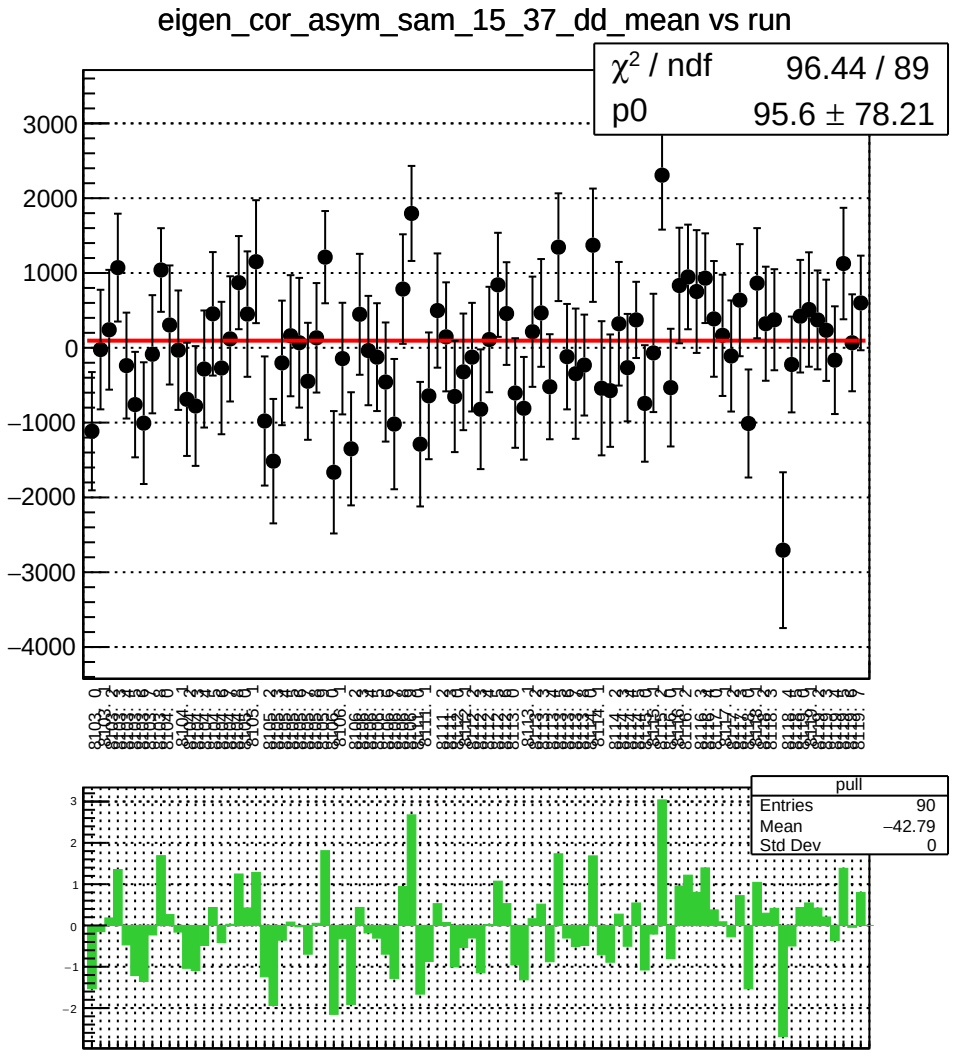

pull1D
Entries 90
Mean −0.05162
Std Dev 1.034

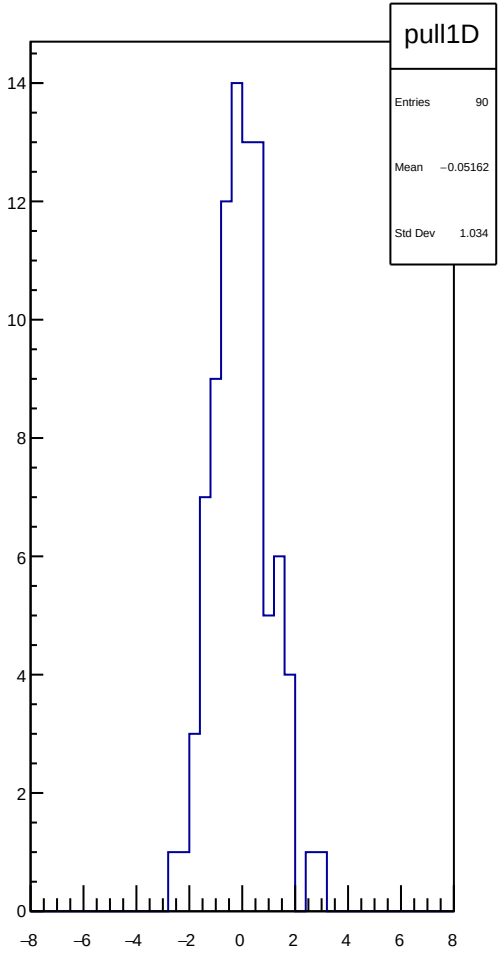

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.209e+04 / 89
p0 73.09 ± 0.0553
100
95
90
85
80
75
70
65
60

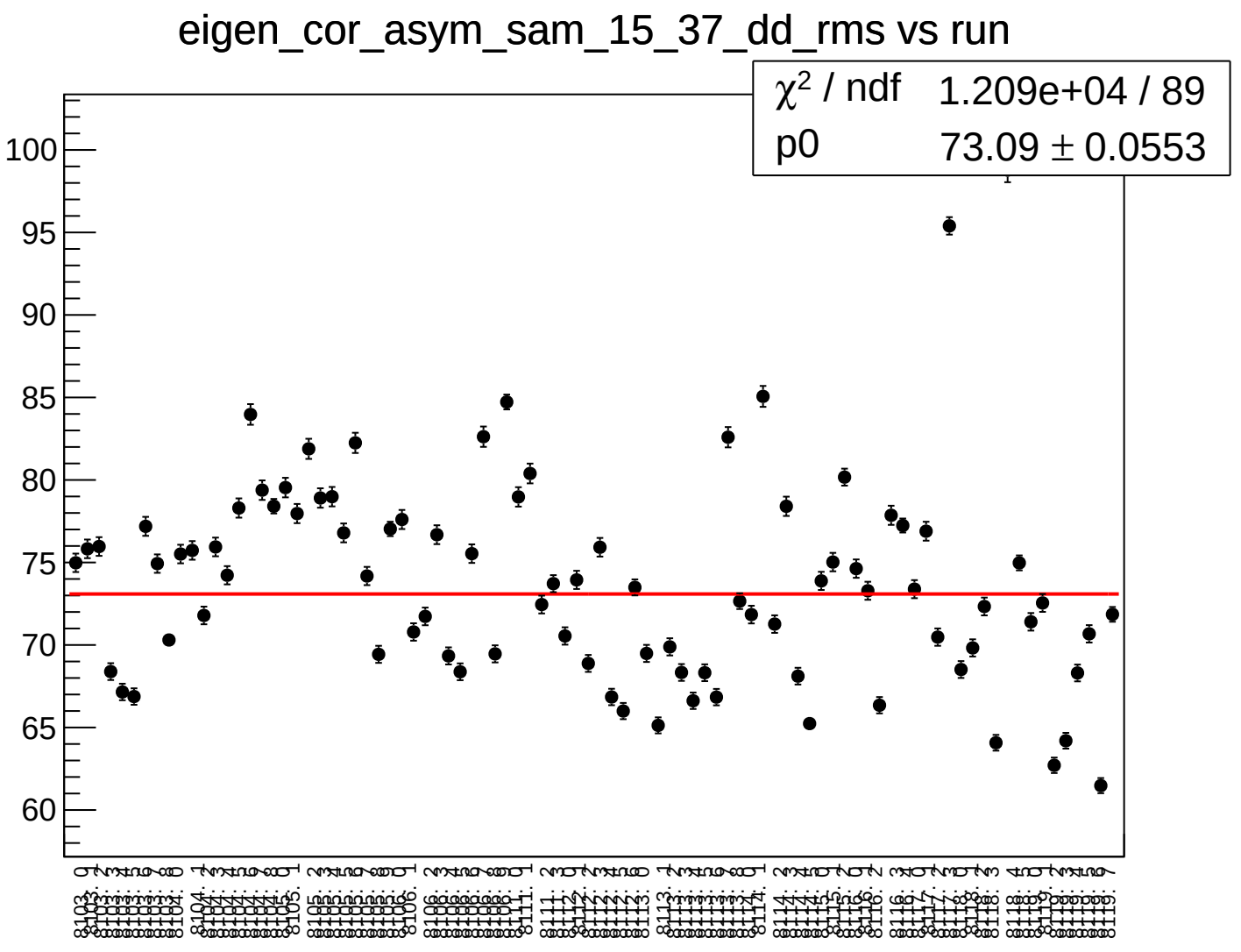

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 83.56 / 89
p0 2424 ± 964.8
pull
Entries 90
Mean 1893
Std Dev 0

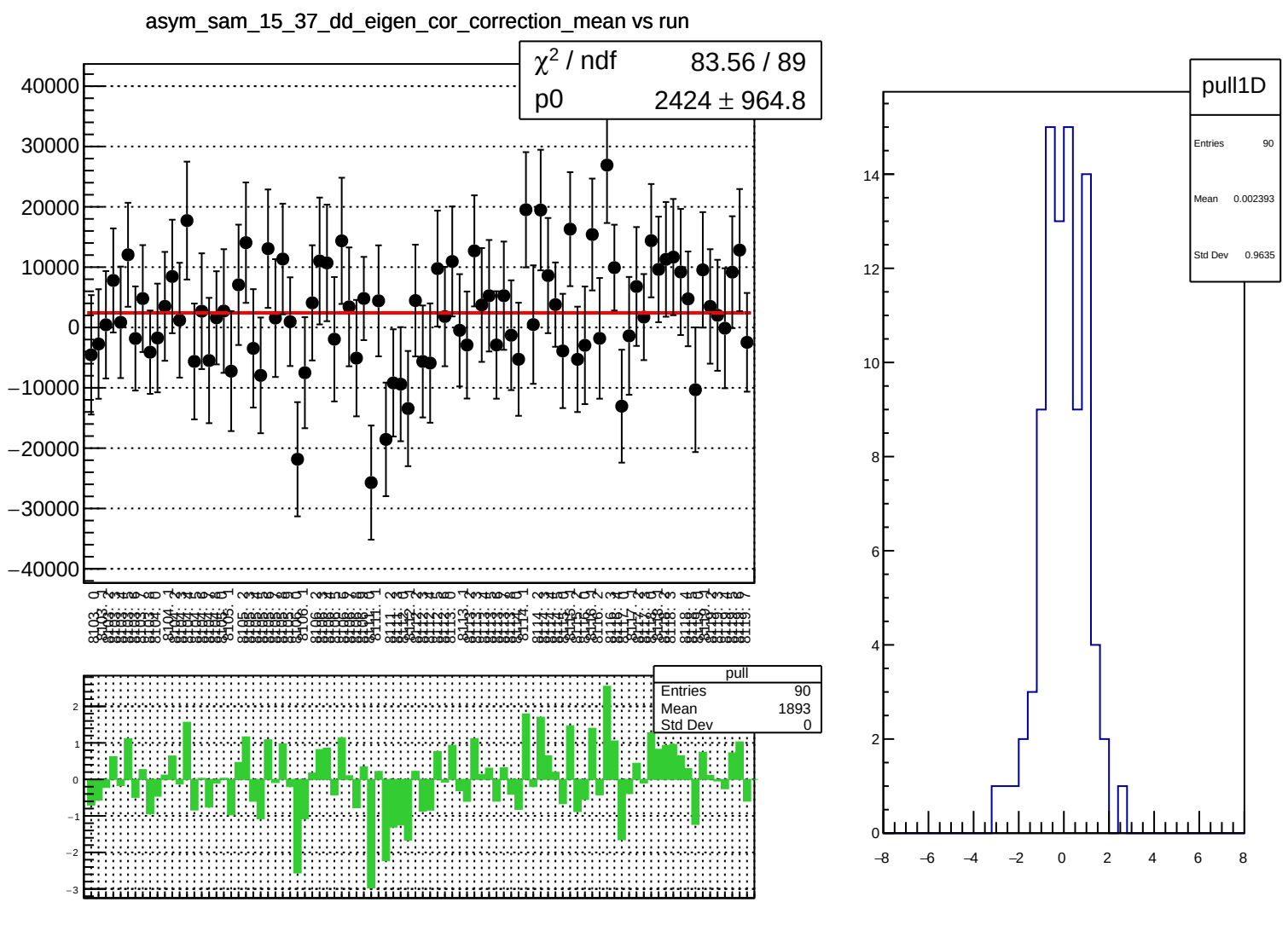

pull1D
Entries 90
Mean 0.002393
Std Dev 0.9635

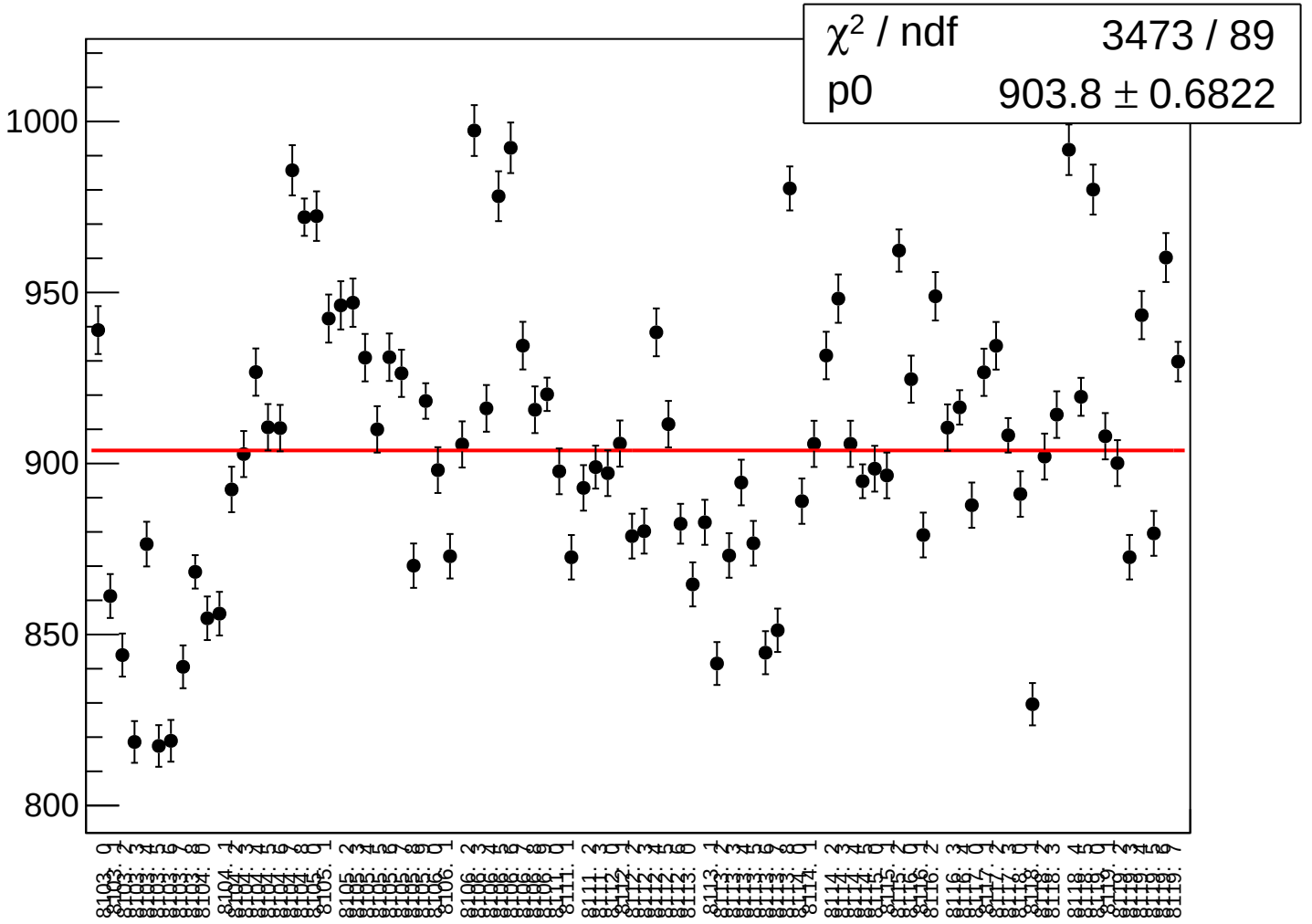

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 3473 / 89
p0 903.8 ± 0.6822
1000
950
900
850
800

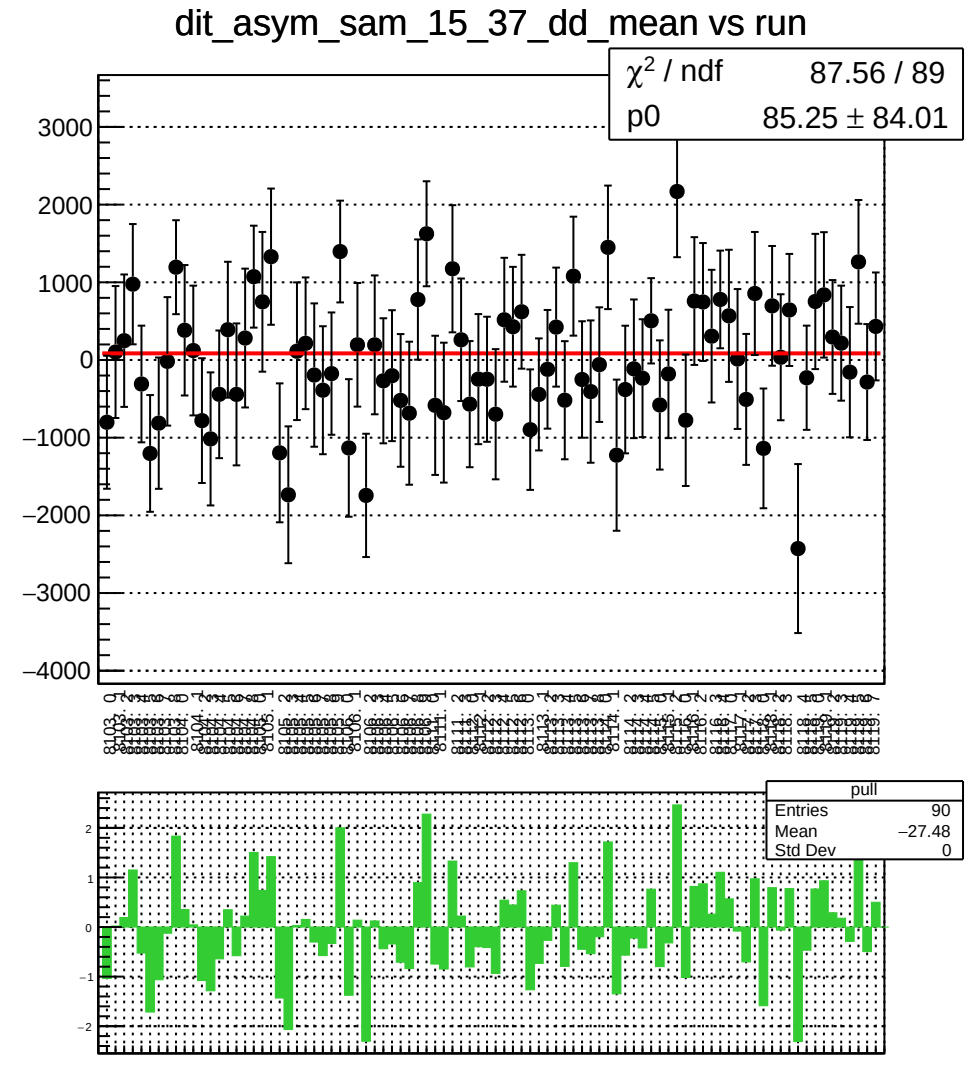

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 96.44 / 89
p0 95.6 ± 78.21
pull
Entries 90
Mean −42.79
Std Dev 0

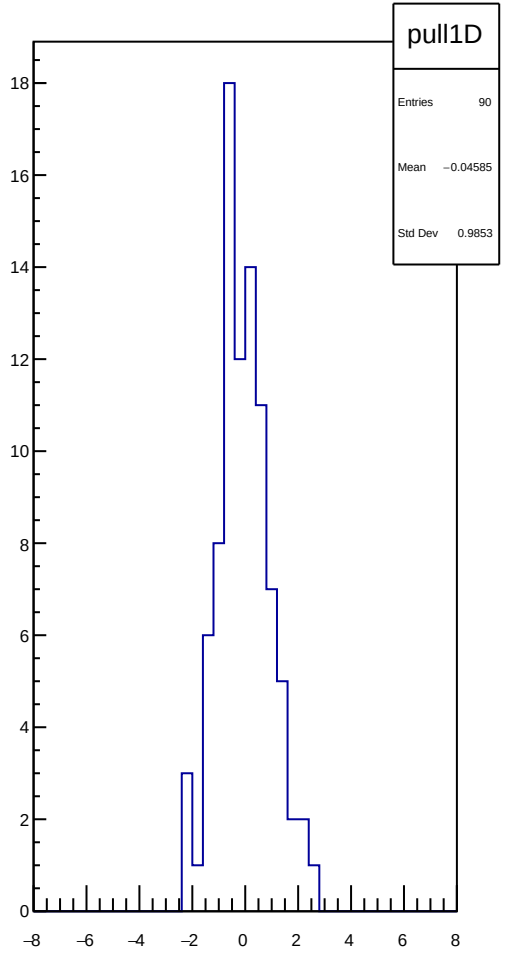

pull1D
Entries 90
Mean −0.05162
Std Dev 1.034

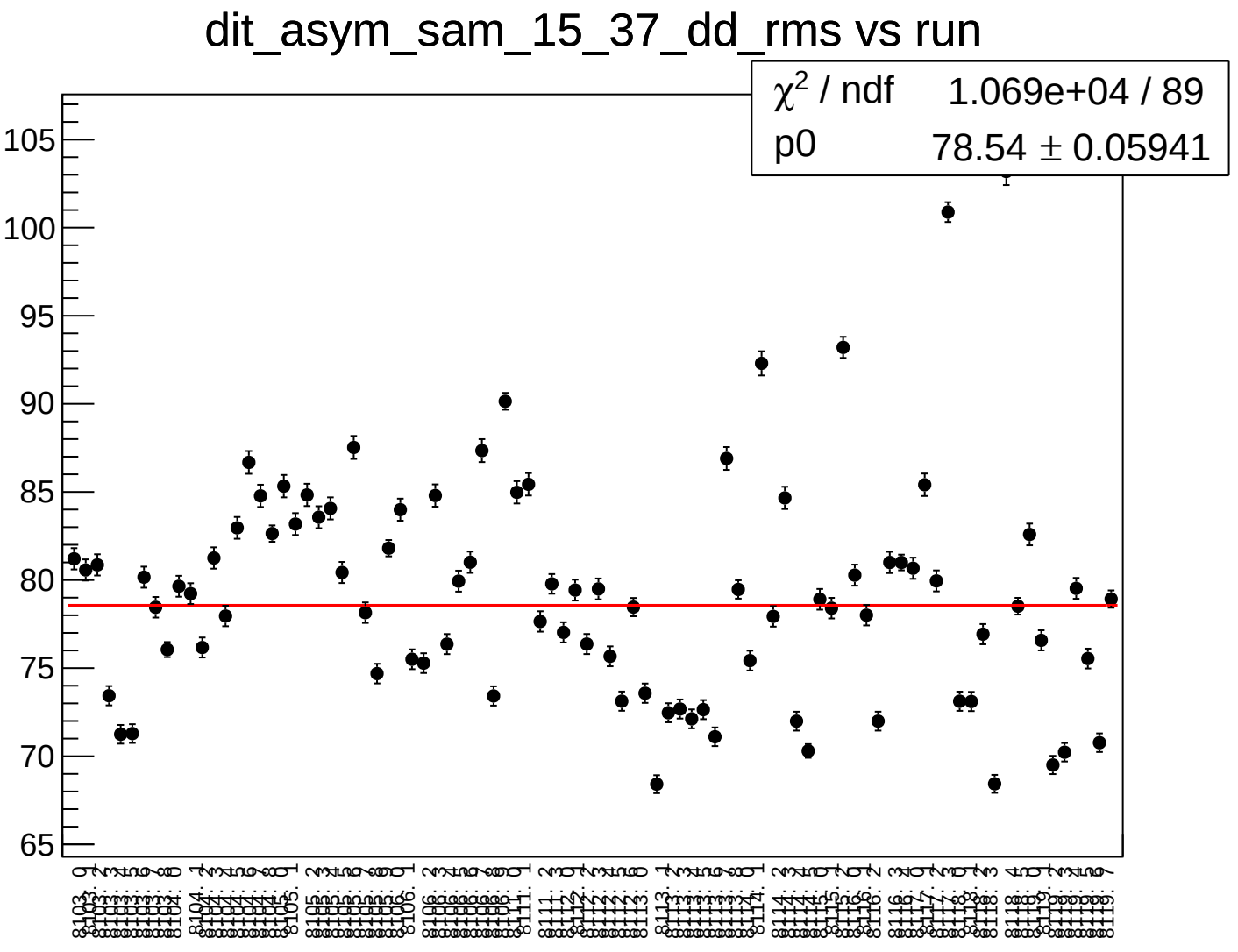

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.209e+04 / 89
p0 73.09 ± 0.0553
100
95
90
85
80
75
70
65
60

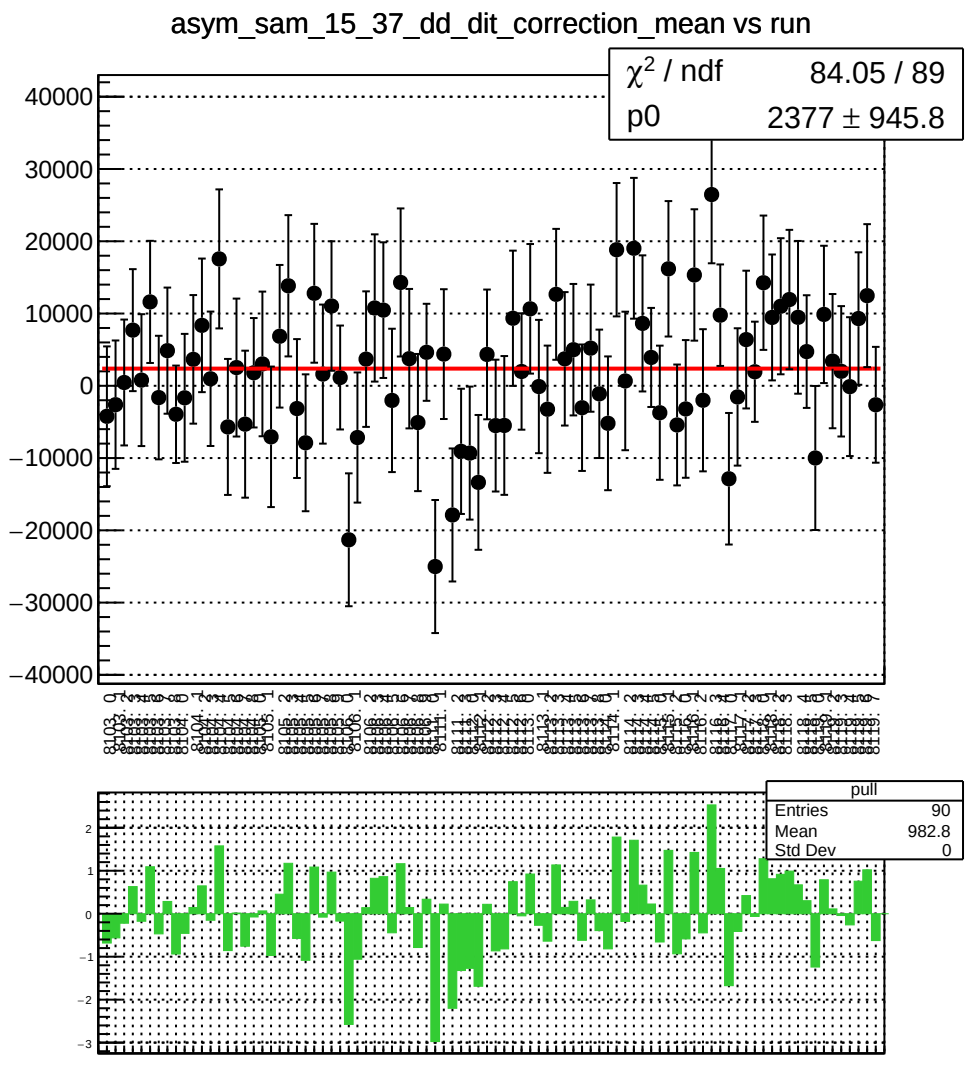

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.56 / 89
p0 2424 ± 964.8
pull
Entries 90
Mean 1893
Std Dev 0
pull1D
Entries 90
Mean 0.002393
Std Dev 0.9635

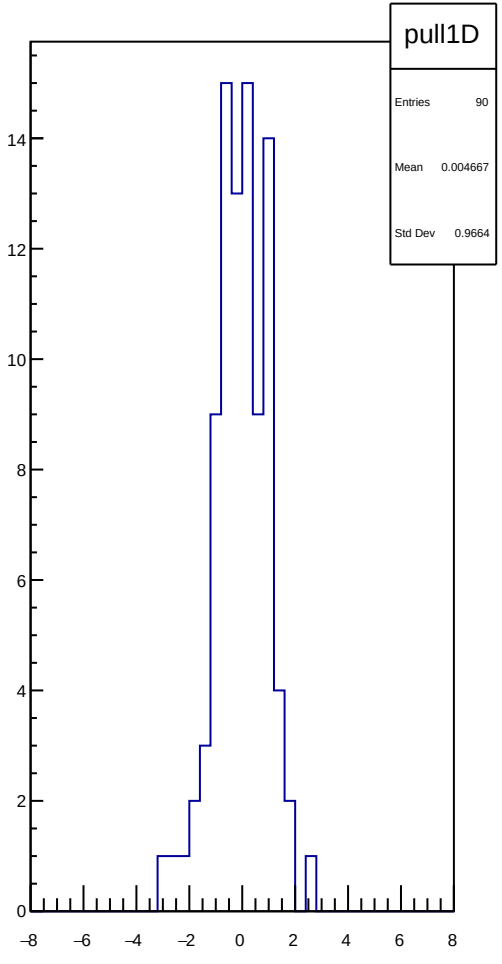

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3473 / 89
p0 903.8 ± 0.6822
1000
950
900
850
800

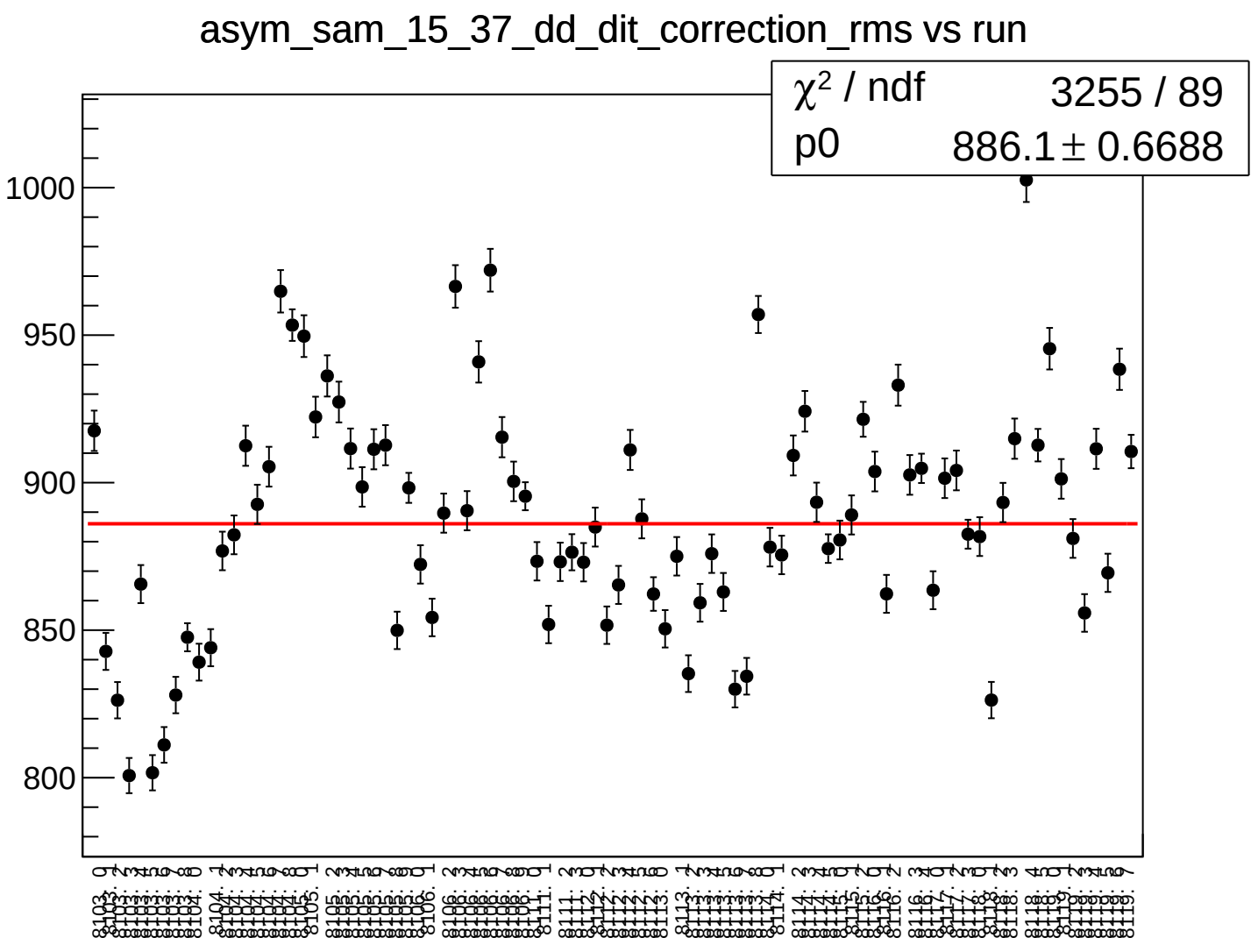

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 87.56 / 89
p0 85.25 ± 84.01
pull
Entries 90
Mean −27.48
Std Dev 0

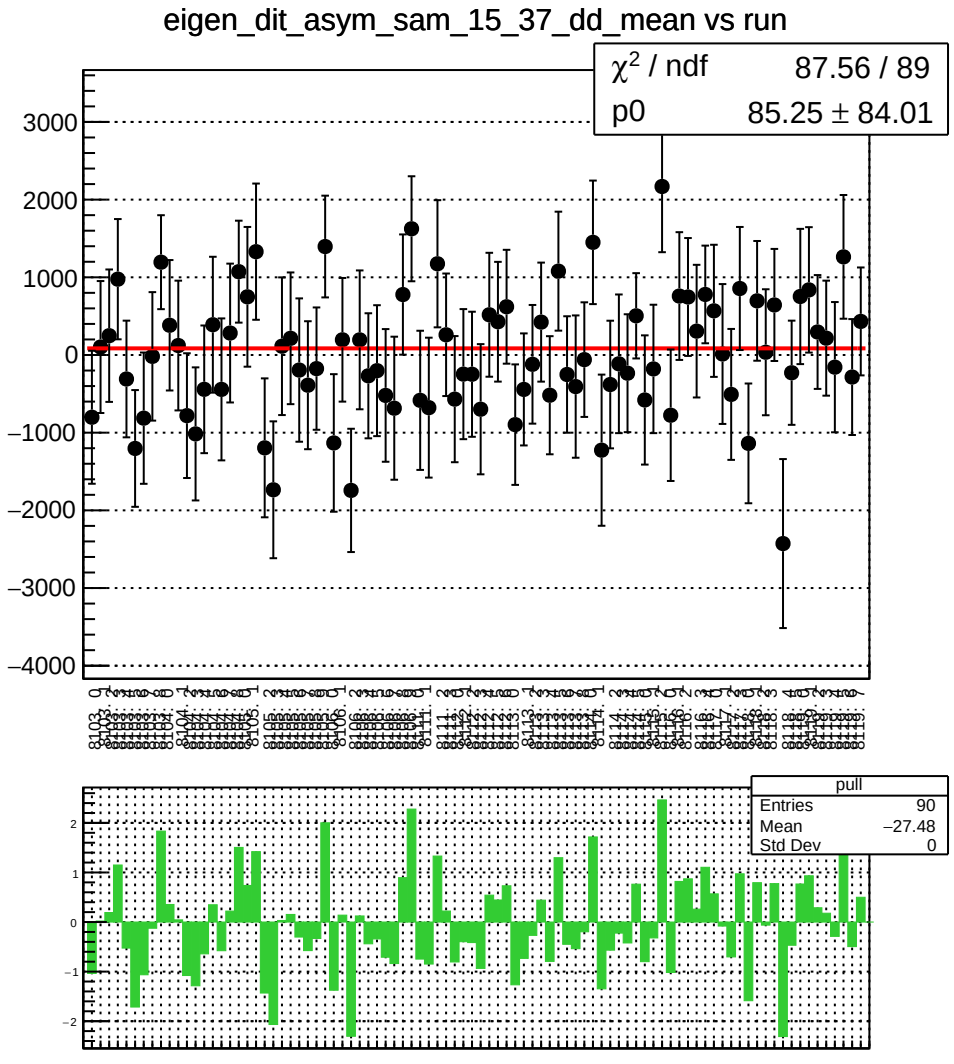

pull1D
Entries 90
Mean −0.04585
Std Dev 0.9853

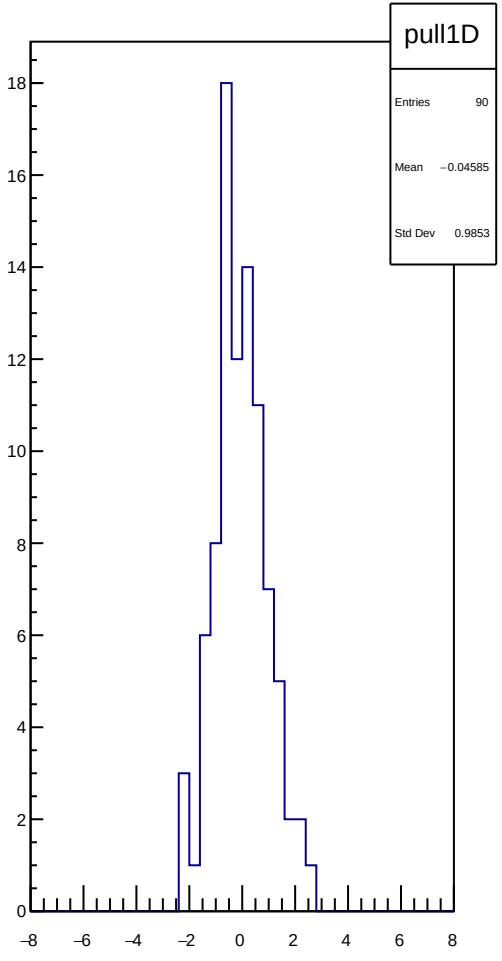

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.069e+04 / 89
p0 78.54 ± 0.05941
105
100
95
90
85
80
75
70
65

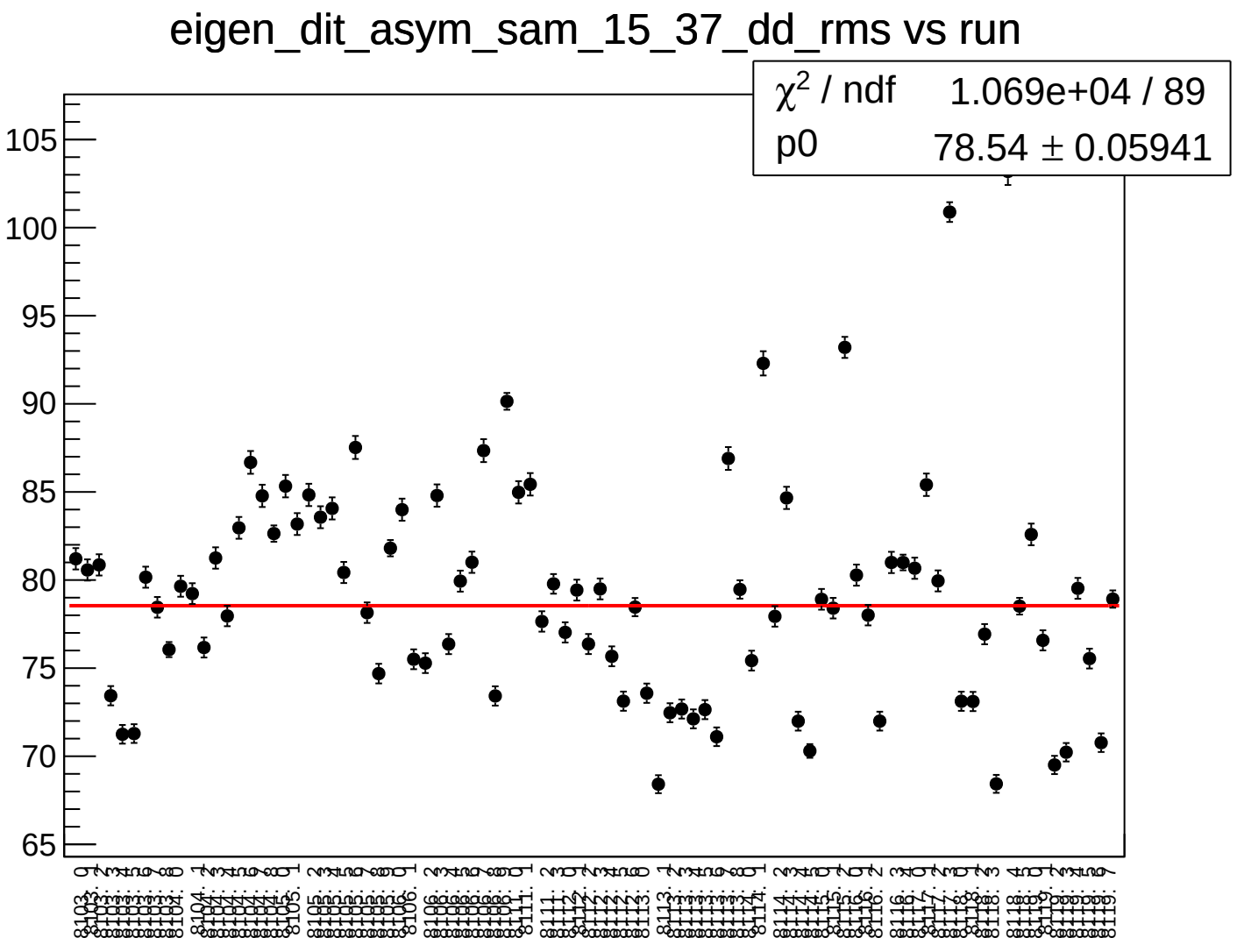

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 84.05 / 89
p0 2377 ± 945.8
pull
Entries 90
Mean 982.8
Std Dev 0

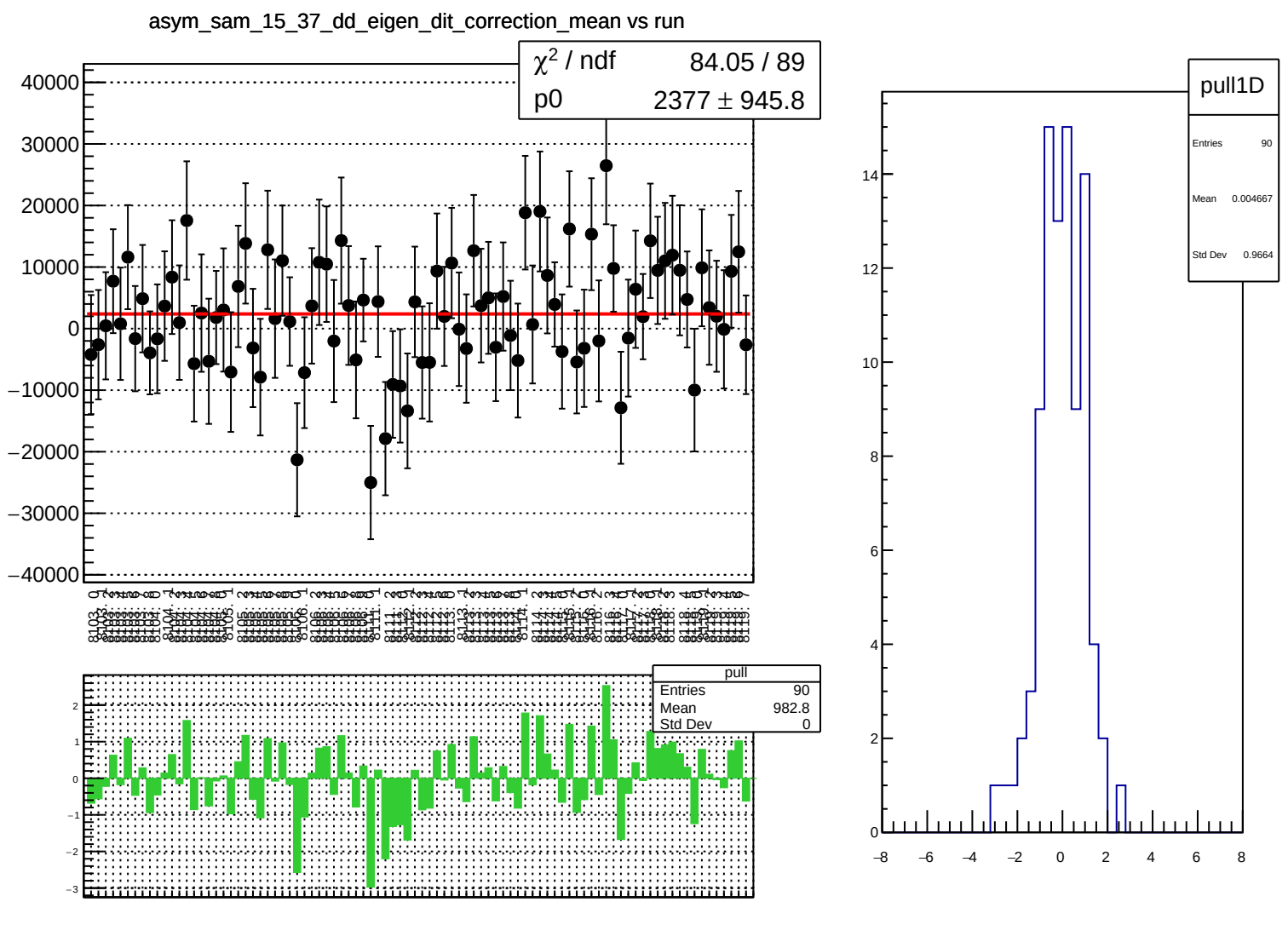

pull1D
Entries 90
Mean 0.004667
Std Dev 0.9664

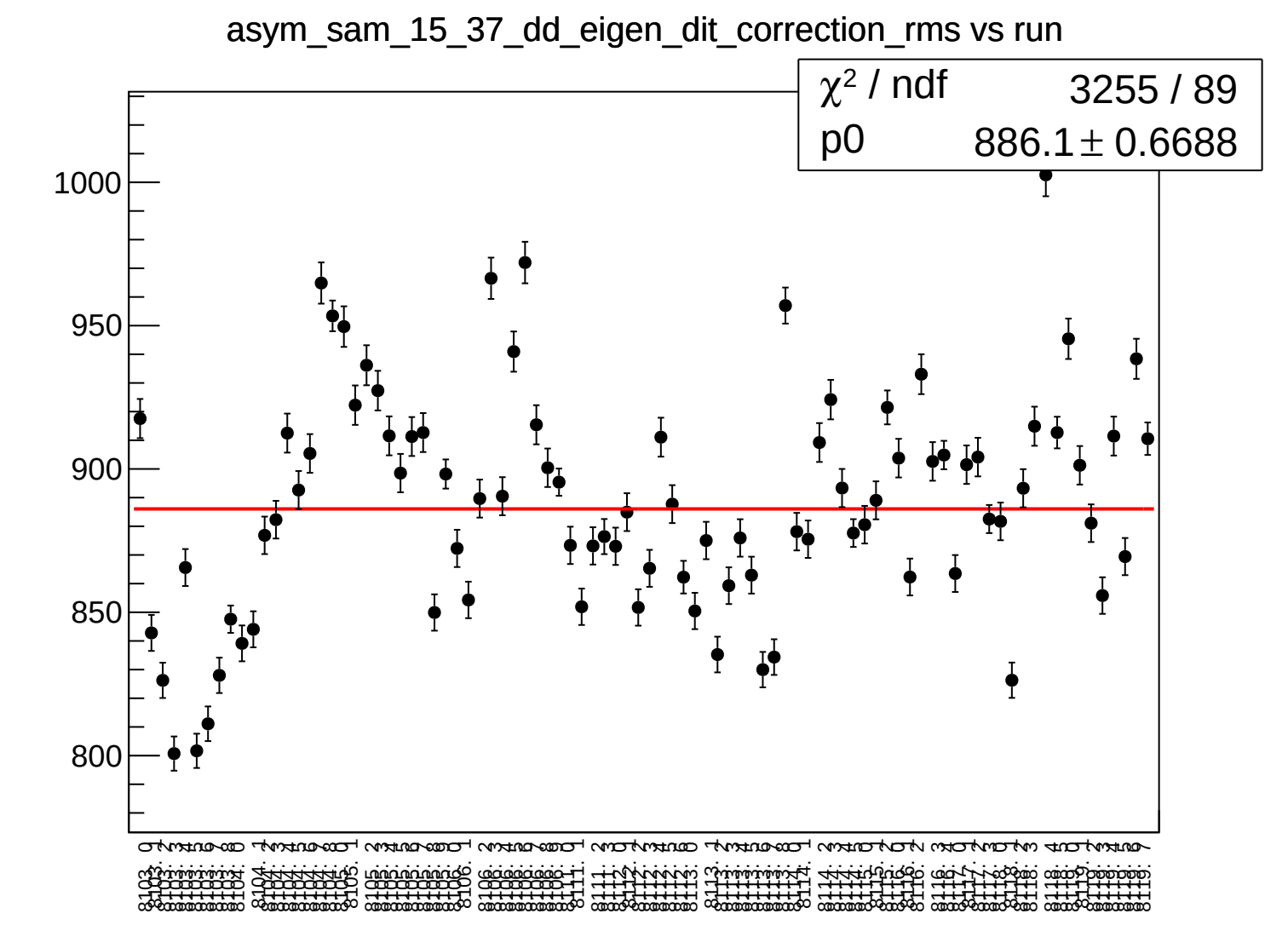

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 3255 / 89
p0 886.1 ± 0.6688
1000
950
900
850
800

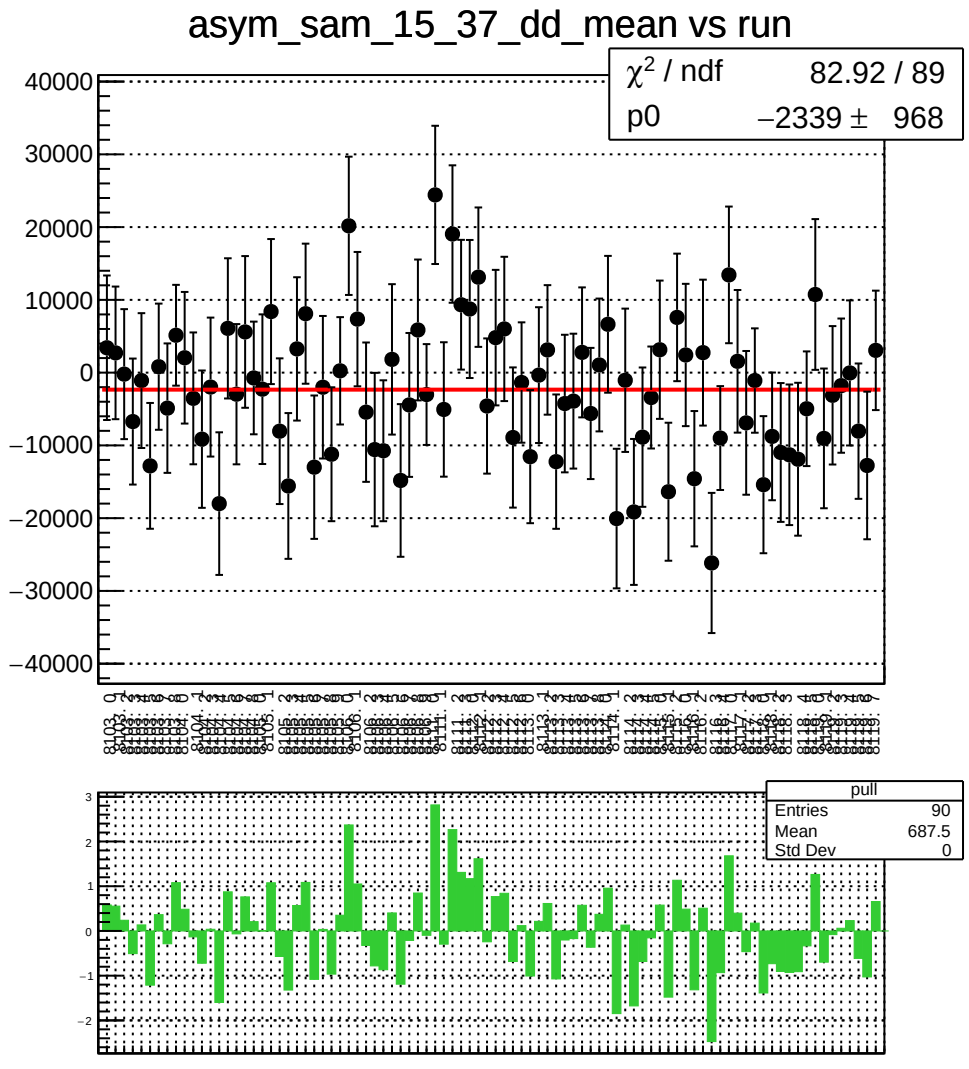

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 87.56 / 89
p0 85.25 ± 84.01
pull
Entries 90
Mean −27.48
Std Dev 0

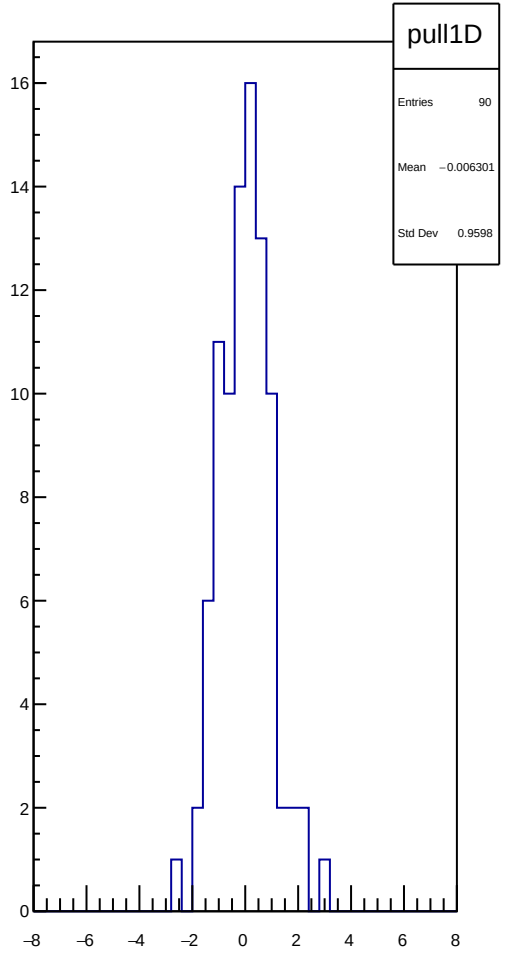

pull1D
Entries 90
Mean −0.04585
Std Dev 0.9853

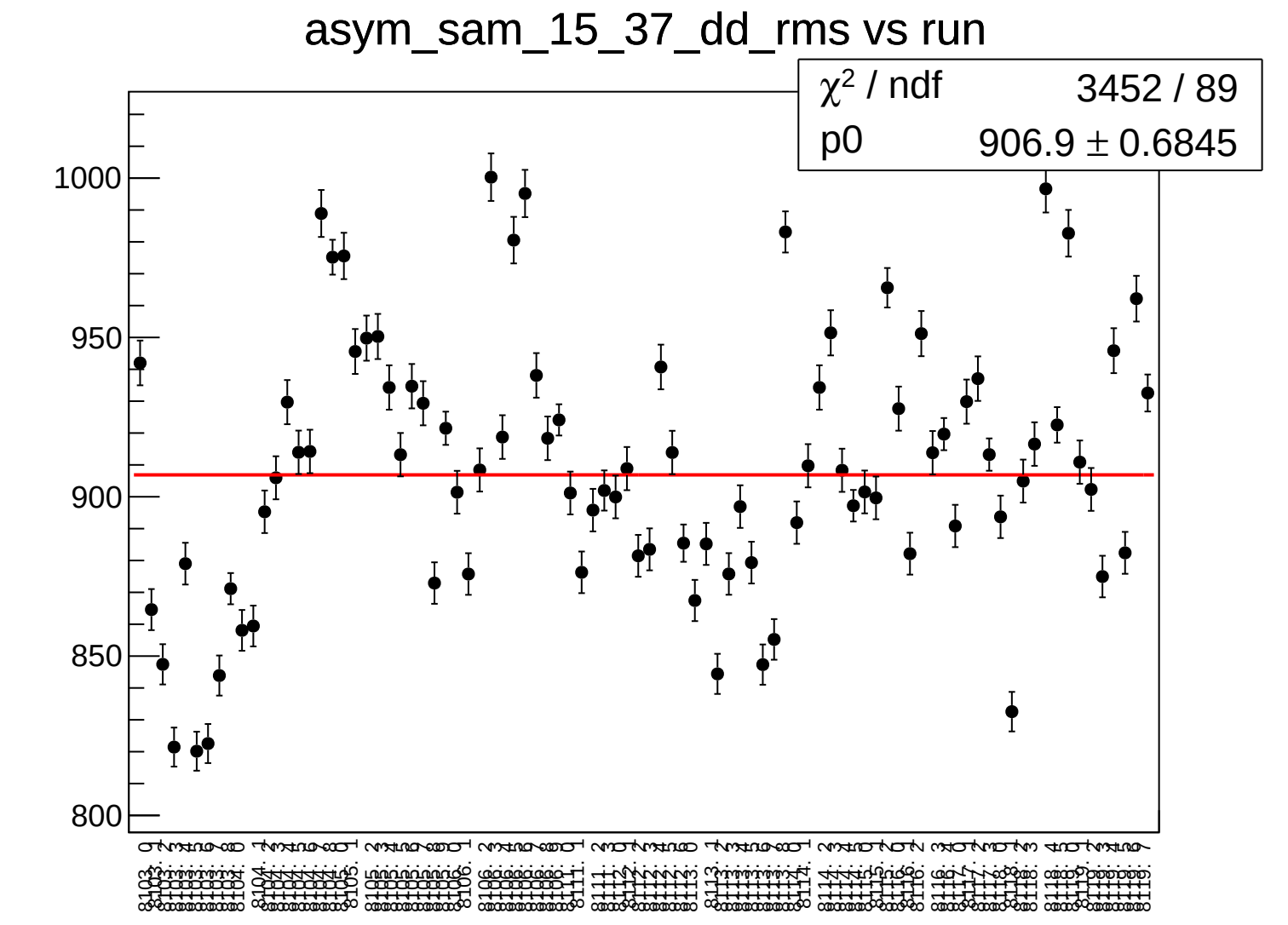

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.069e+04 / 89
p0 78.54 ± 0.05941
105
100
95
90
85
80
75
70
65

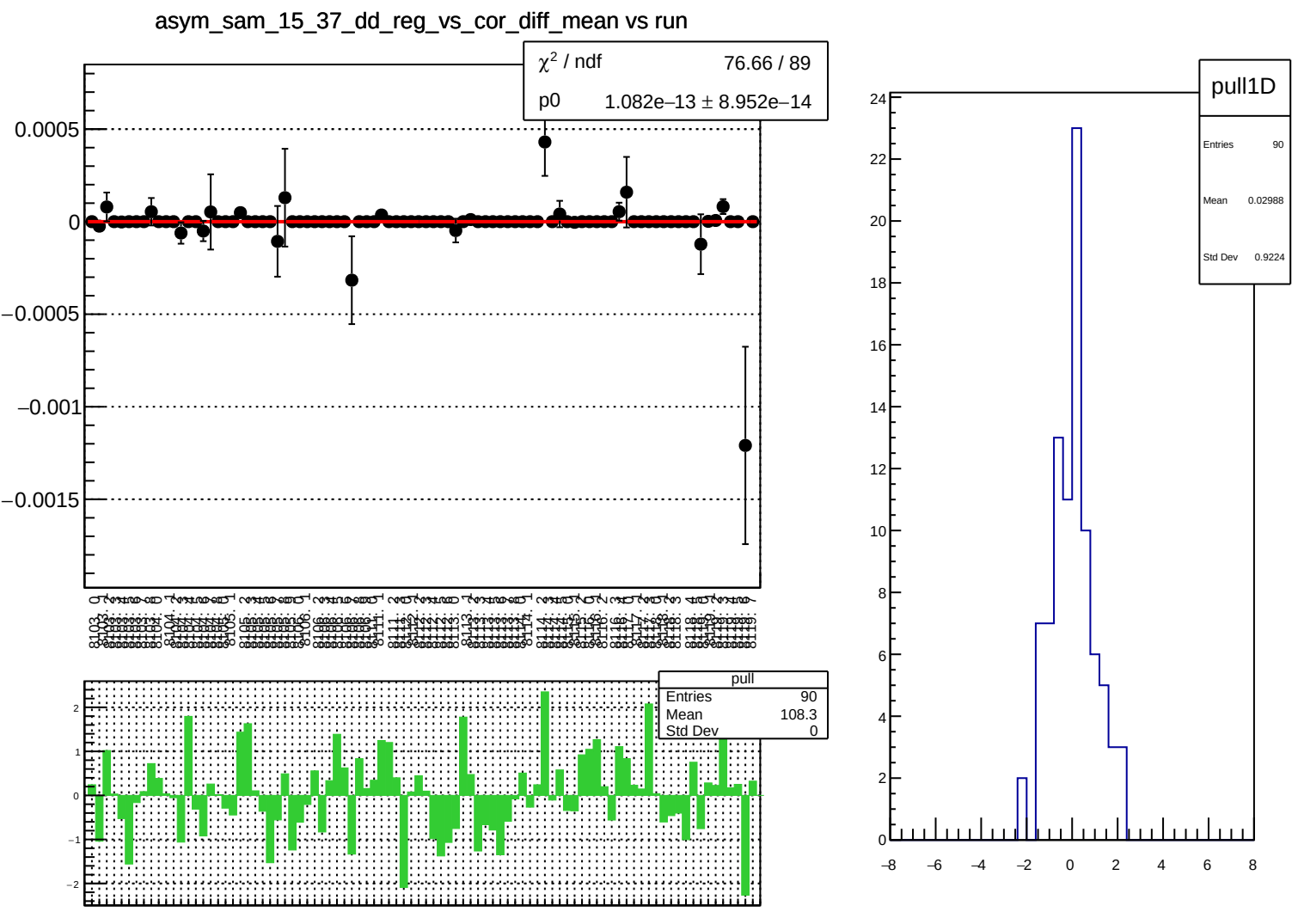

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.05 / 89
p0 2377 ± 945.8
pull
Entries 90
Mean 982.8
Std Dev 0
pull1D
Entries 90
Mean 0.004667
Std Dev 0.9664

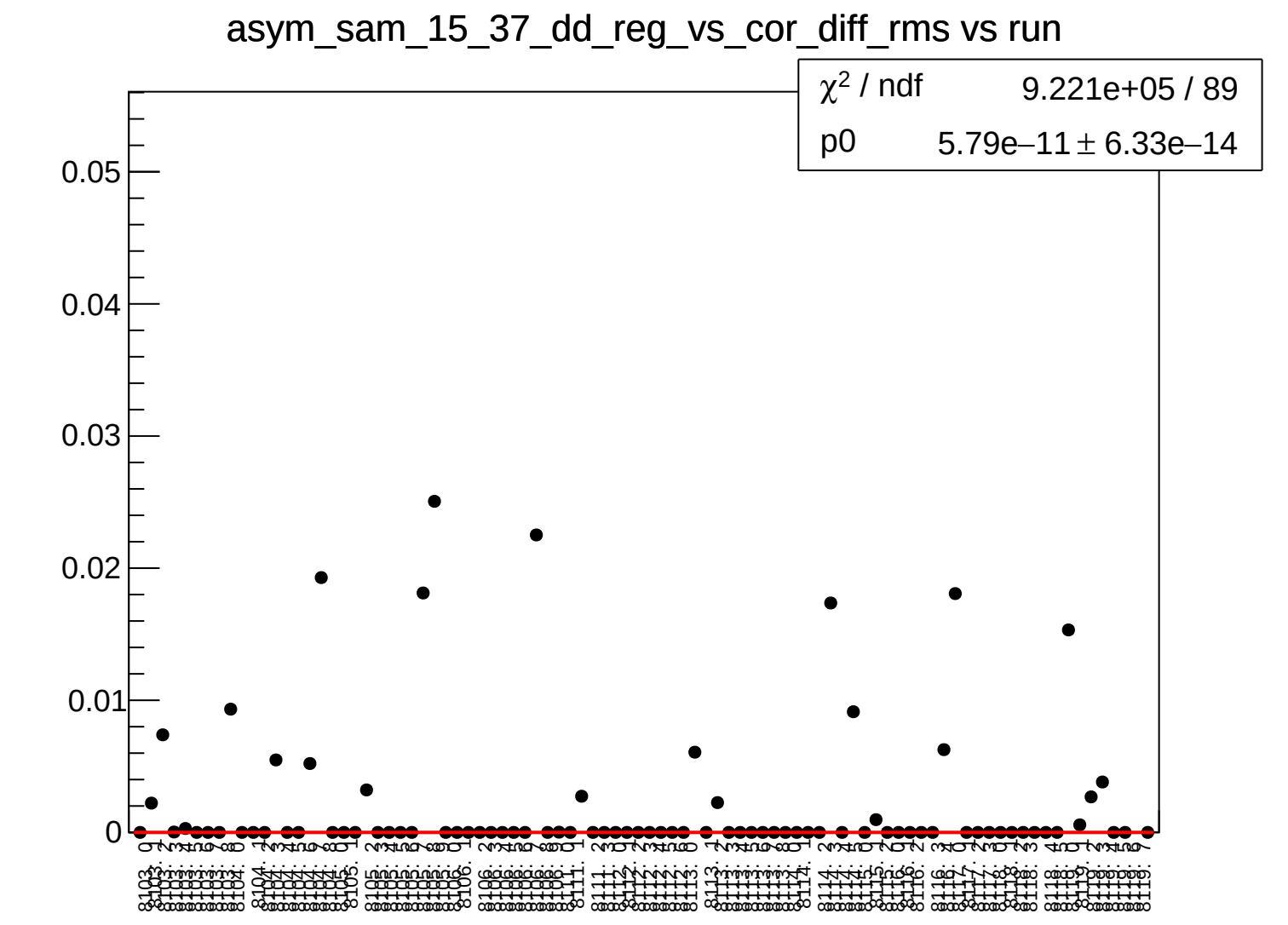

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3255 / 89
p0 886.1 ± 0.6688
1000
950
900
850
800

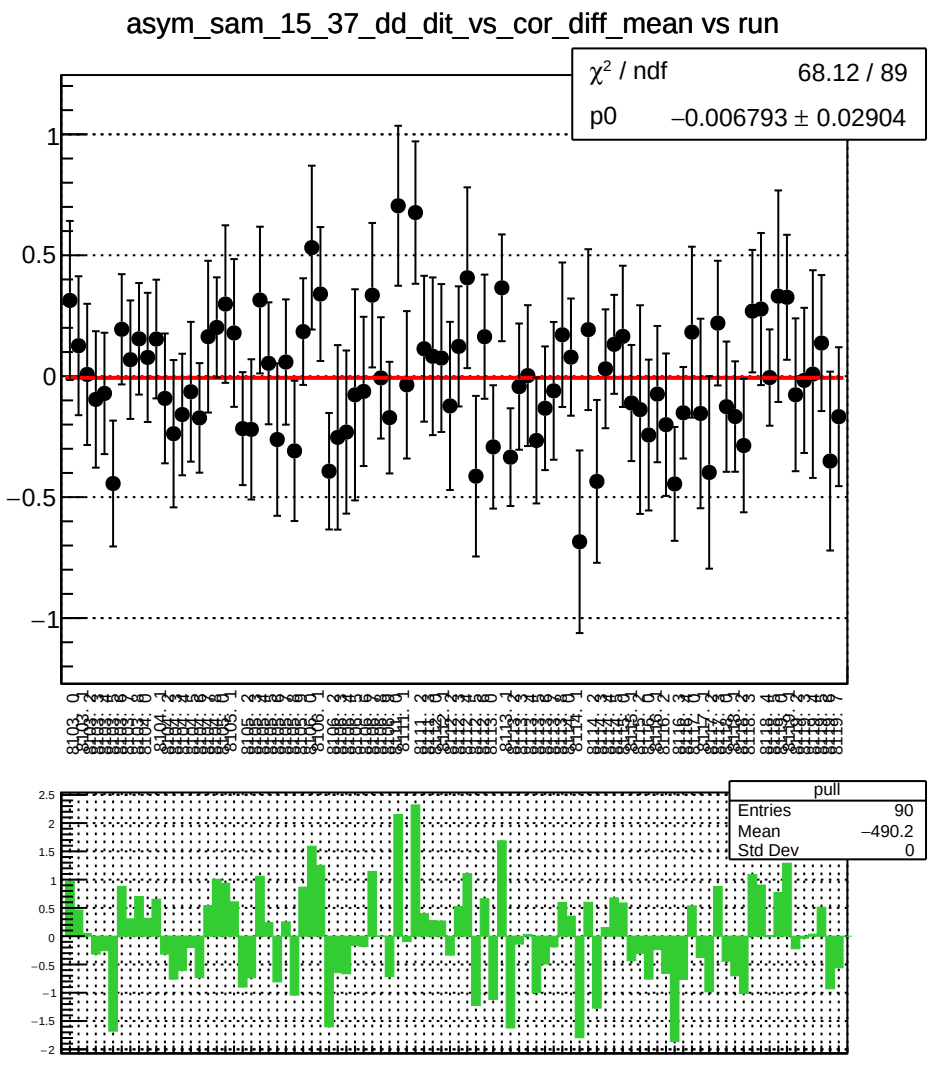

asym_sam_15_37_dd_mean vs run
χ² / ndf 82.92 / 89
p0 −2339 ± 968
pull
Entries 90
Mean 687.5
Std Dev 0

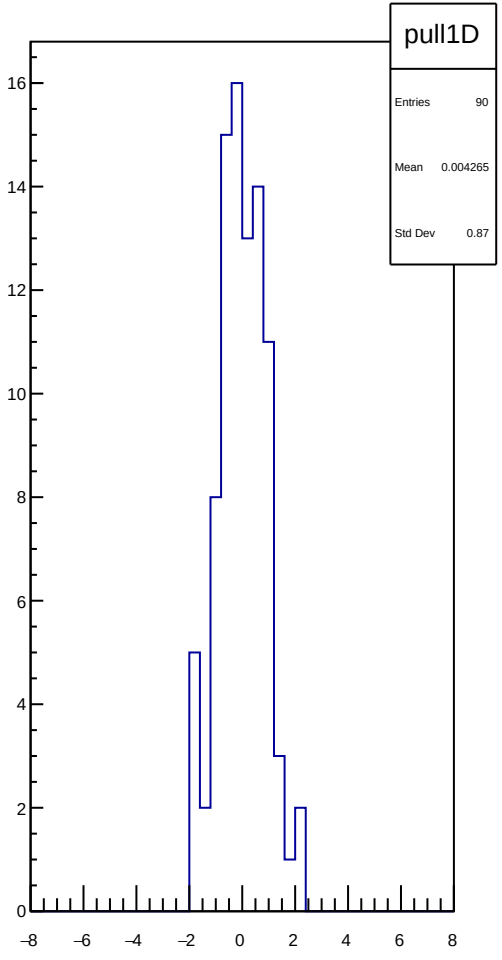

pull1D
Entries 90
Mean −0.006301
Std Dev 0.9598

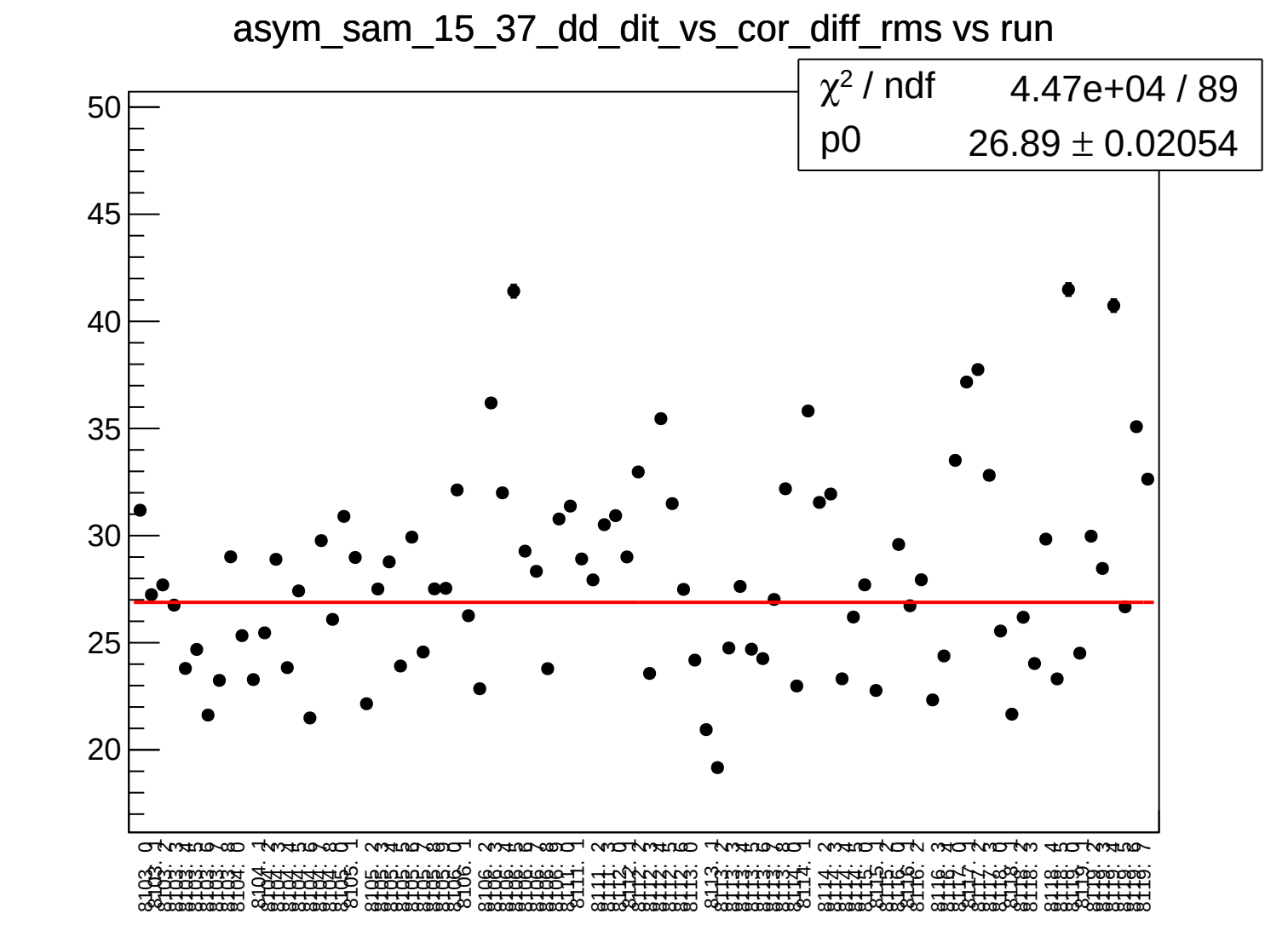

asym_sam_15_37_dd_rms vs run
χ² / ndf 3452 / 89
p0 906.9 ± 0.6845
1000
950
900
850
800

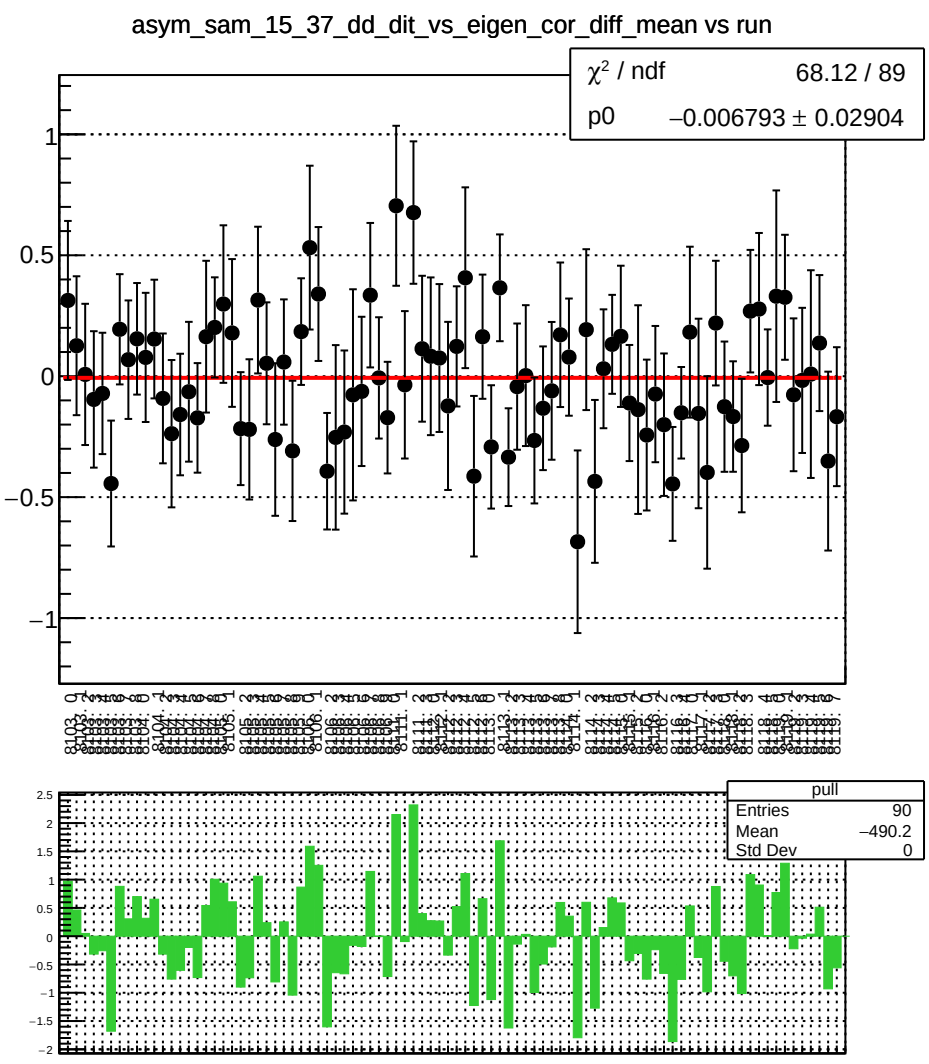

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.66 / 89
p0 1.082e−13 ± 8.952e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 90
Mean 108.3
Std Dev 0
pull1D
Entries 90
Mean 0.02988
Std Dev 0.9224

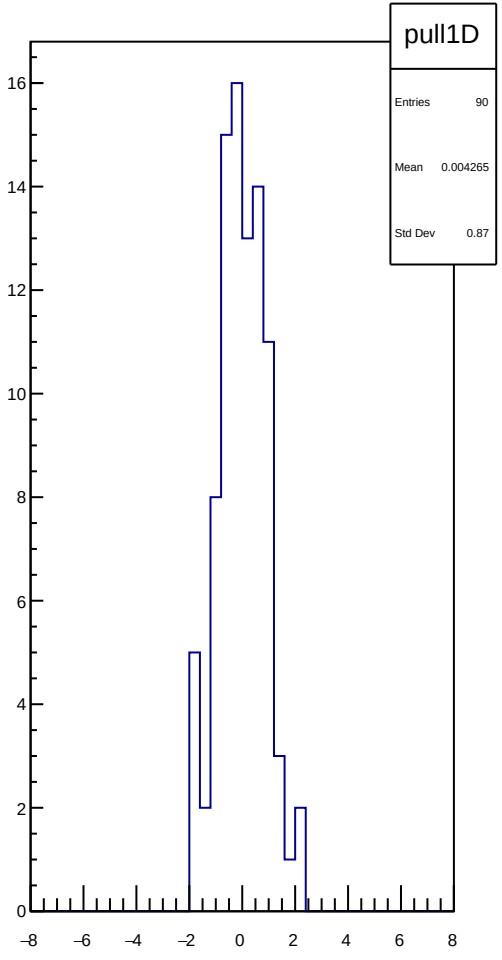

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.221e+05 / 89
p0 5.79e−11 ± 6.33e−14
0.05
0.04
0.03
0.02
0.01
0

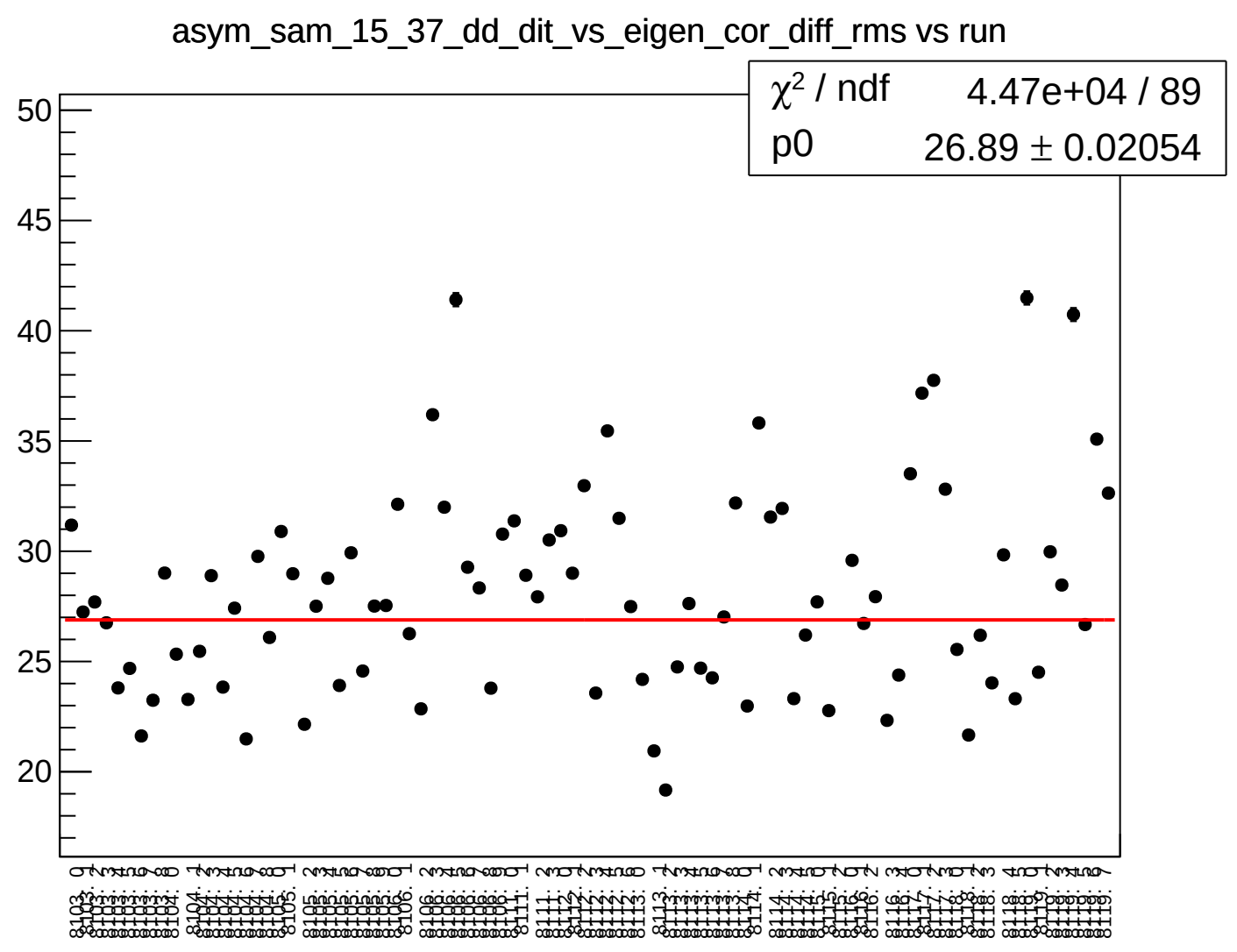

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.12 / 89
p0 −0.006793 ± 0.02904
pull
Entries 90
Mean −490.2
Std Dev 0

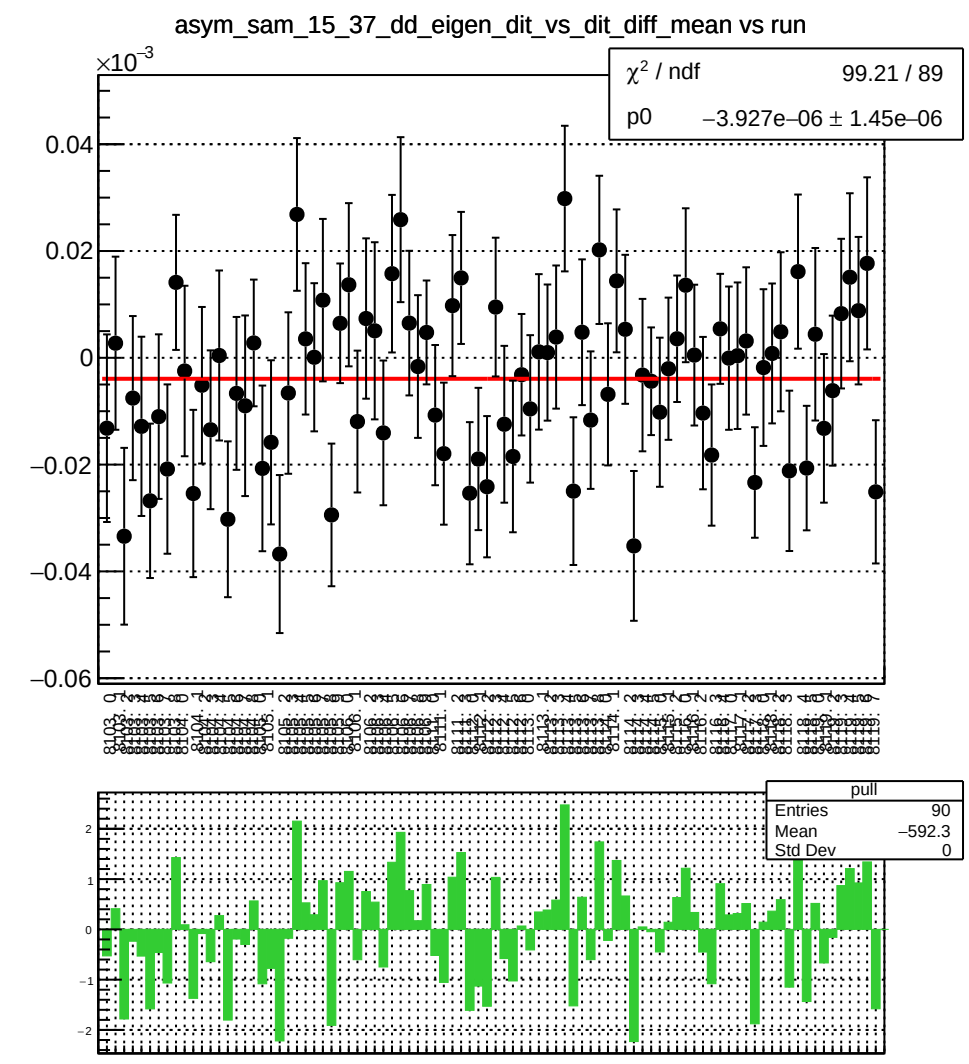

pull1D
Entries 90
Mean 0.004265
Std Dev 0.87

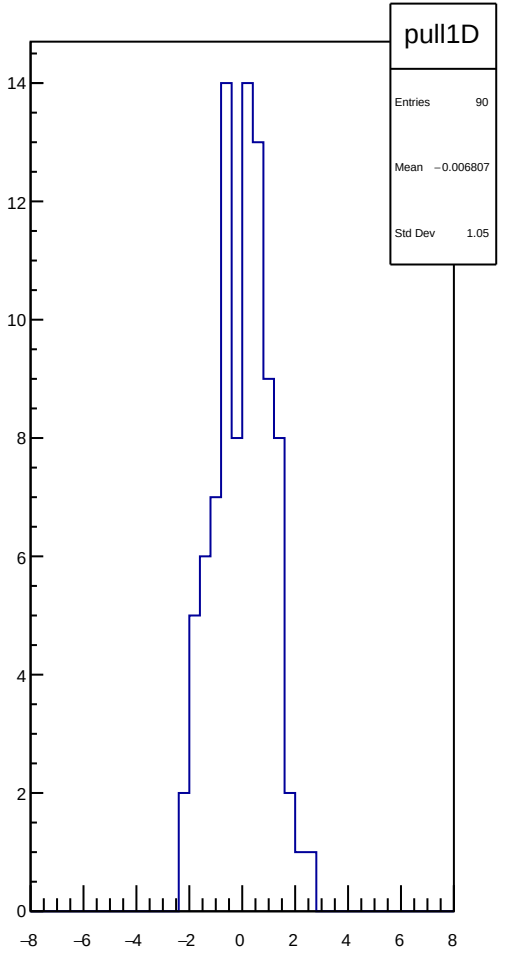

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.47e+04 / 89
p0 26.89 ± 0.02054
50
45
40
35
30
25
20

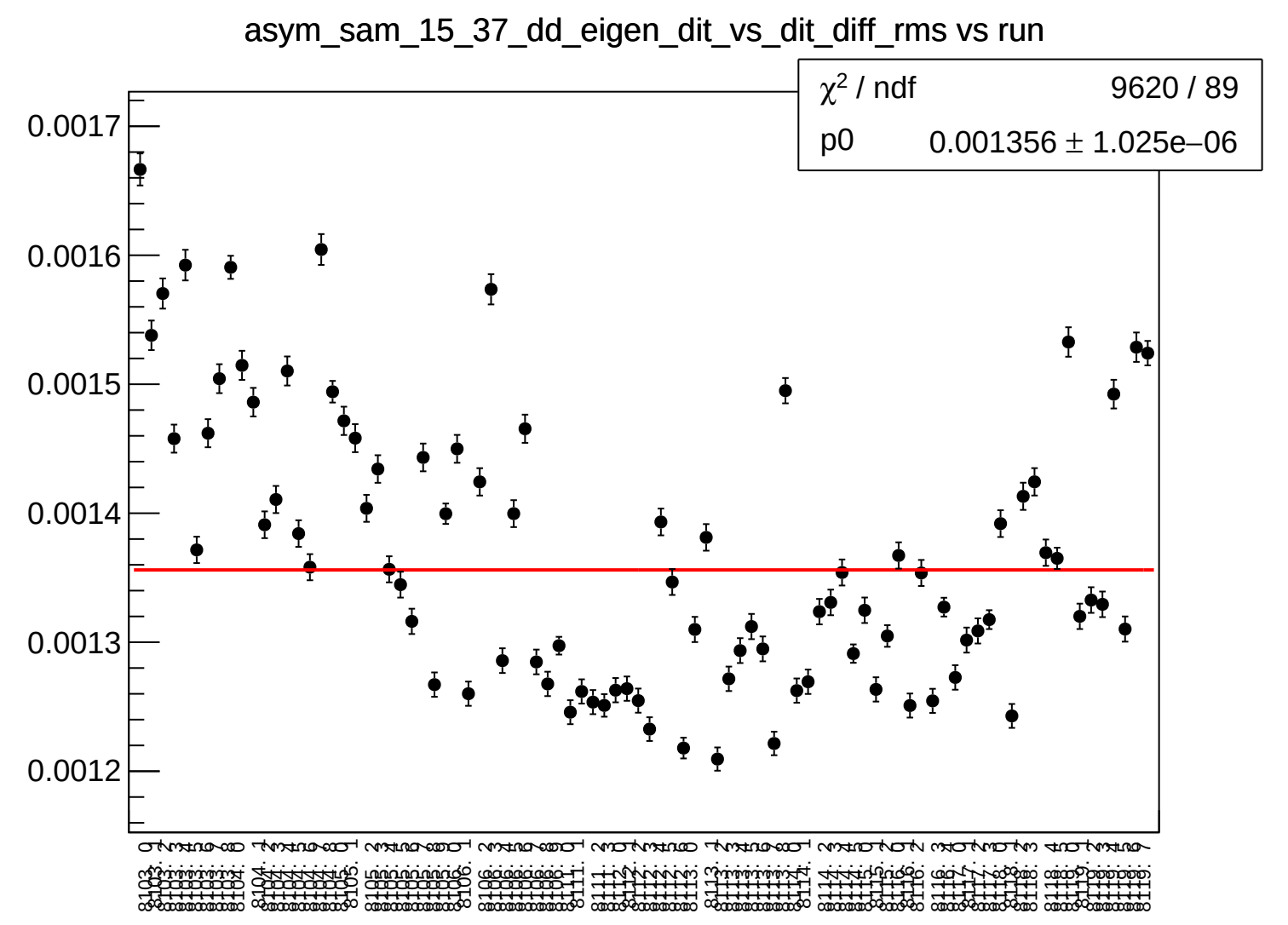

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.12 / 89
p0 −0.006793 ± 0.02904
pull
Entries 90
Mean −490.2
Std Dev 0

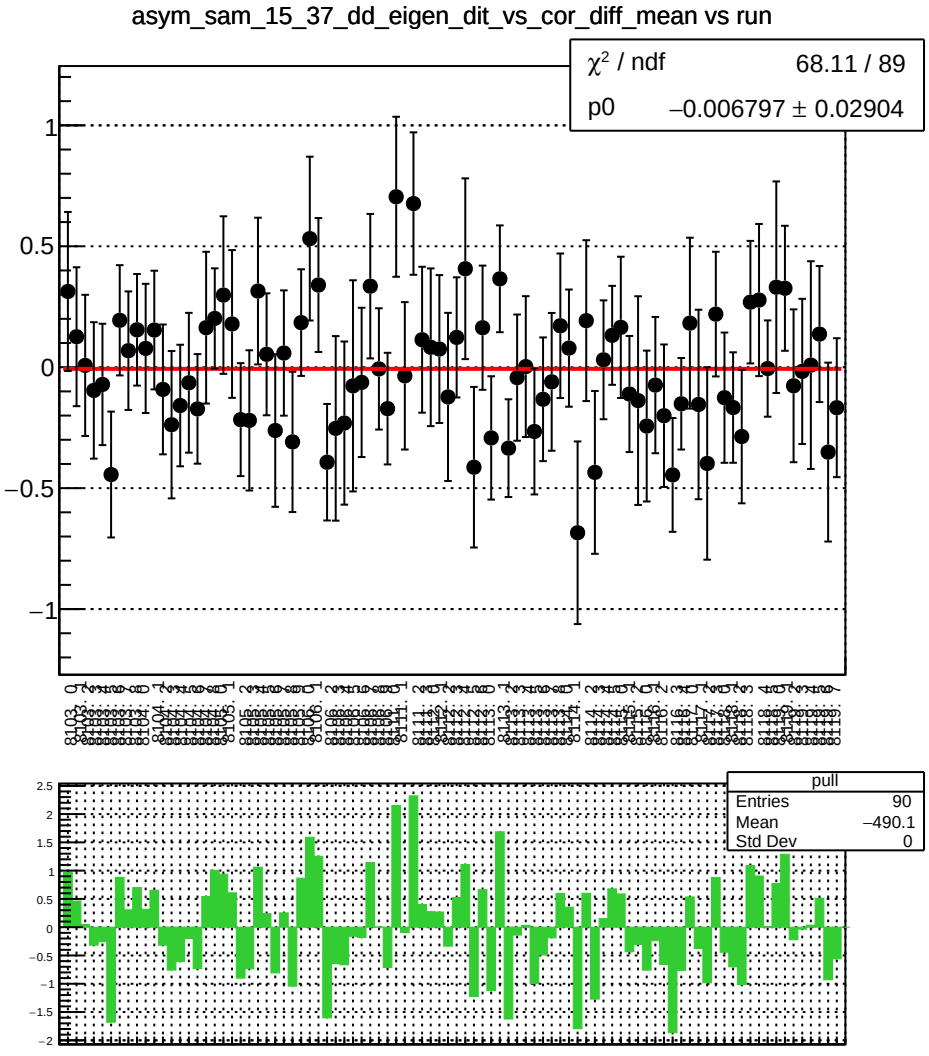

pull1D
Entries 90
Mean 0.004265
Std Dev 0.87

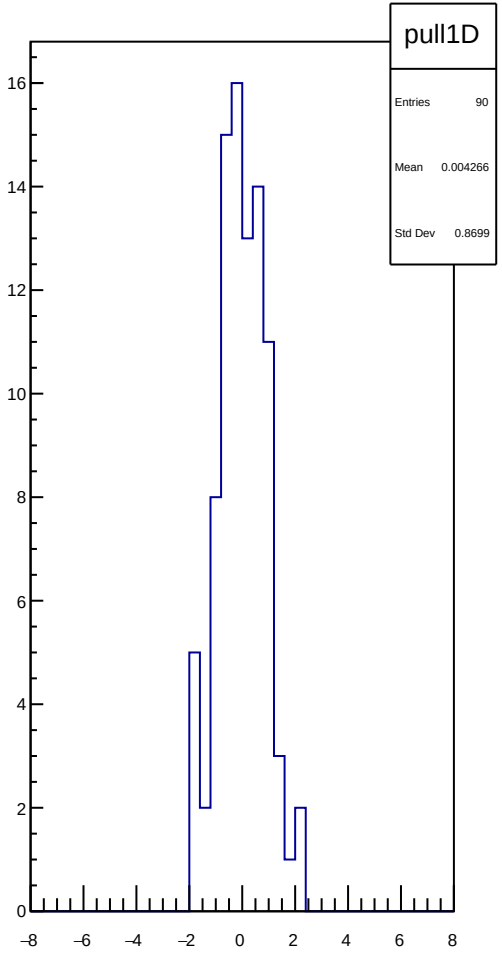

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.47e+04 / 89
p0 26.89 ± 0.02054
50
45
40
35
30
25
20

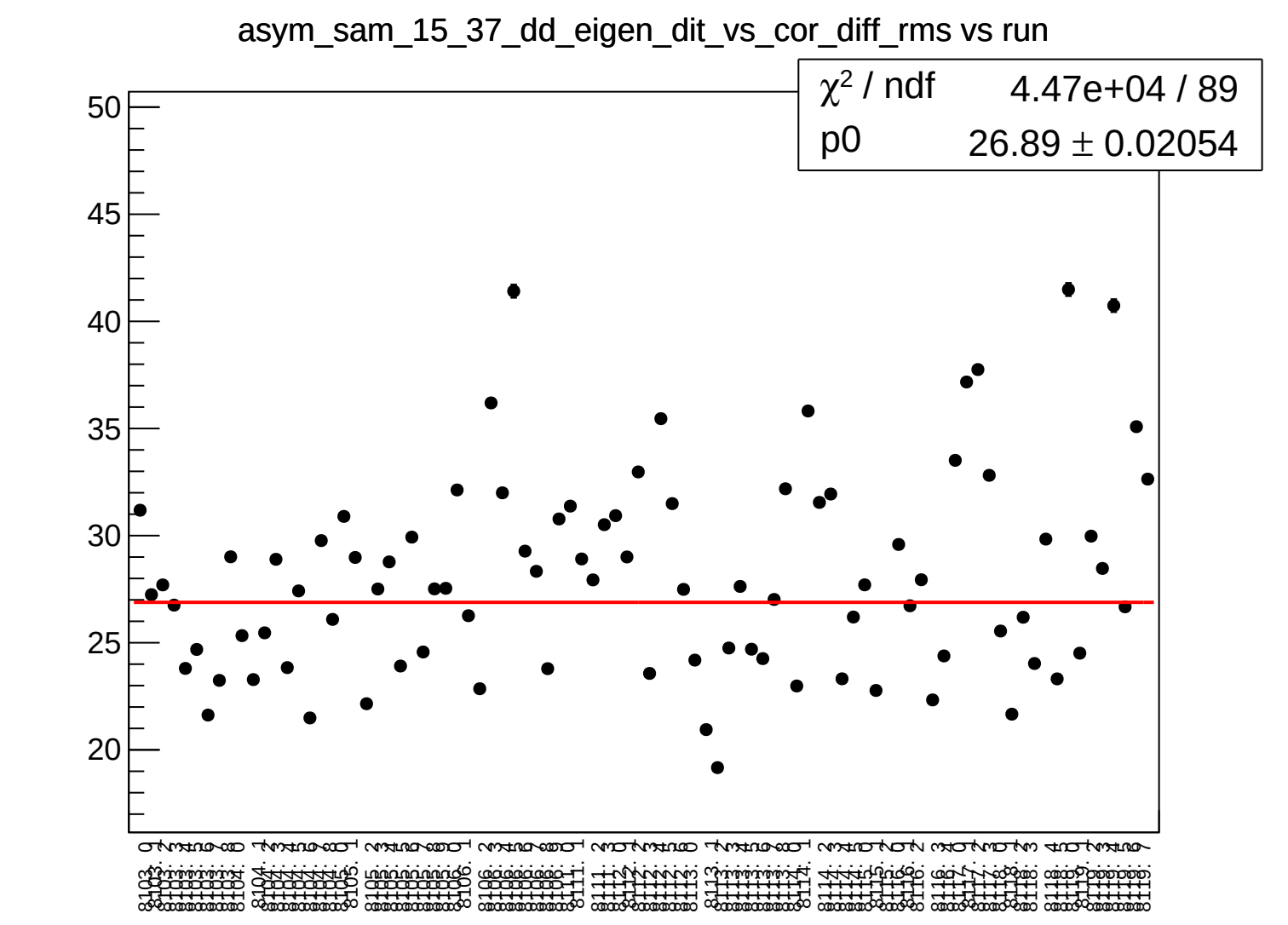

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.21 / 89
p0 −3.927e−06 ± 1.45e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean −592.3
Std Dev 0
2
1
0
−1
−2

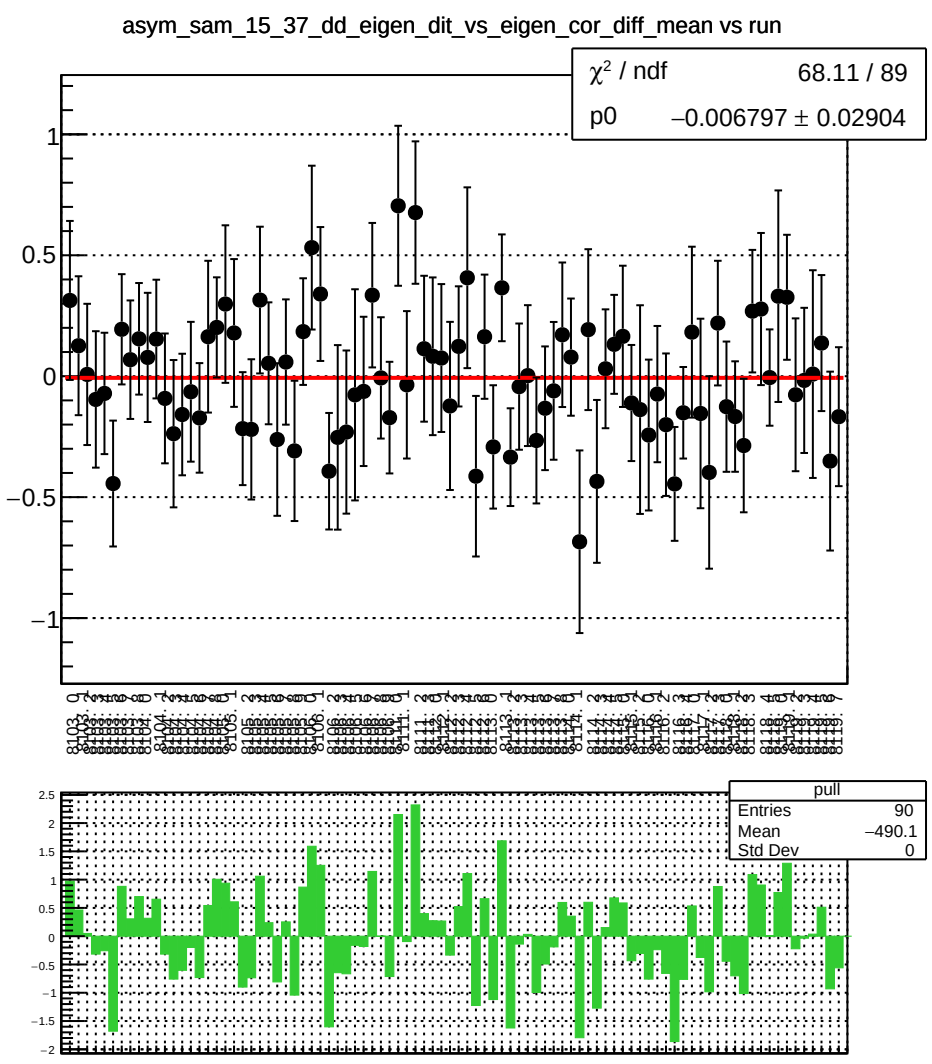

pull1D
Entries 90
Mean −0.006807
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

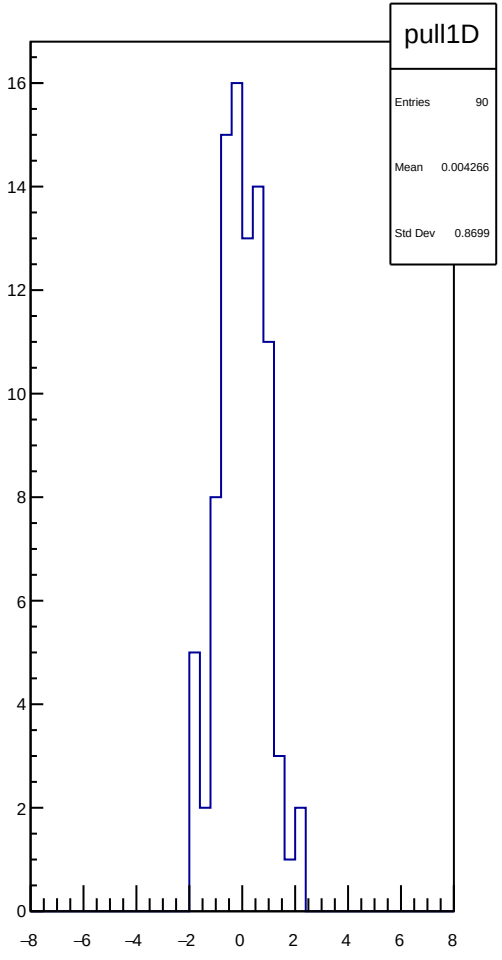

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9620 / 89
p0 0.001356 ± 1.025e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

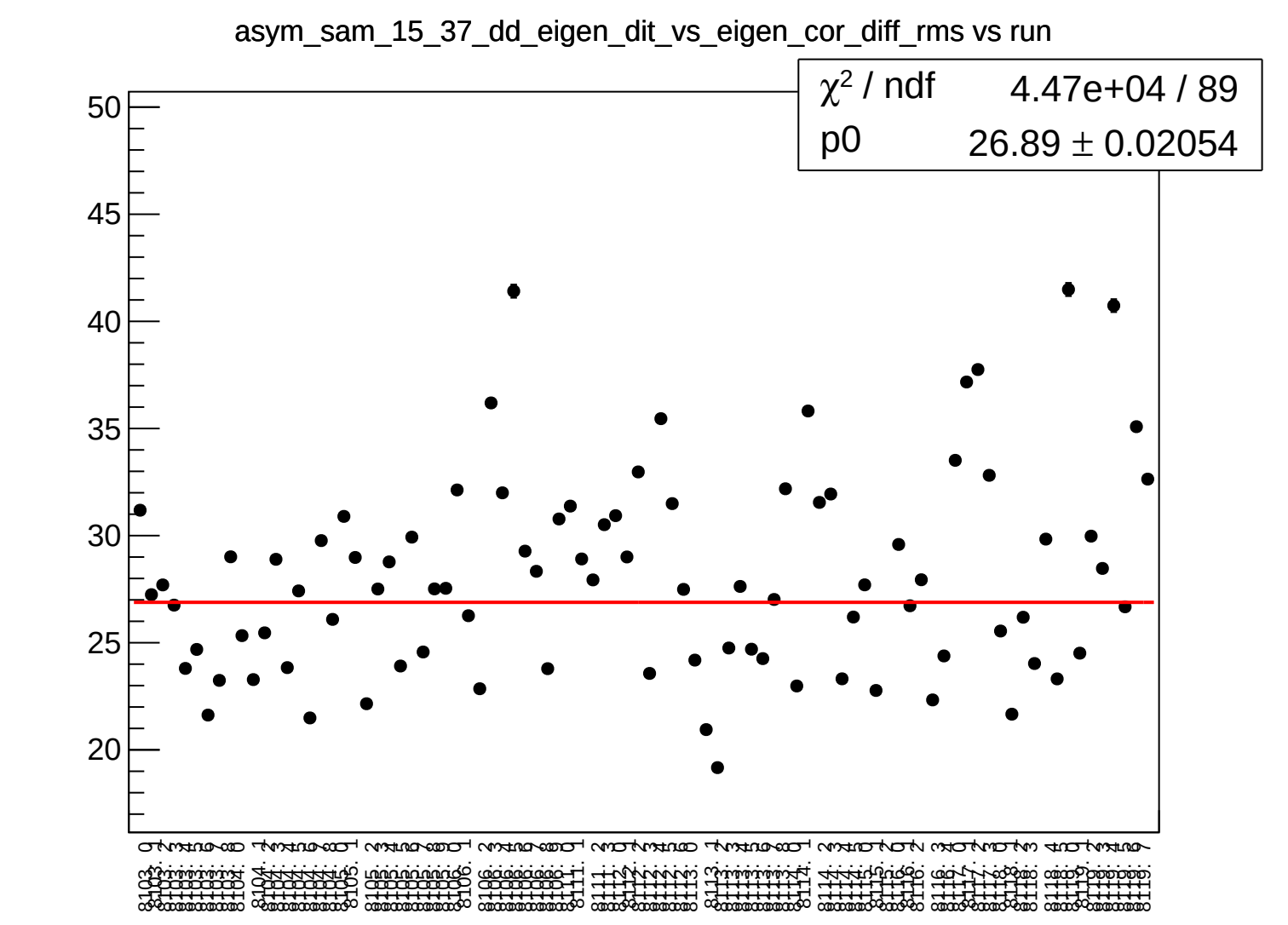

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.11 / 89
p0 −0.006797 ± 0.02904
pull
Entries 90
Mean −490.1
Std Dev 0

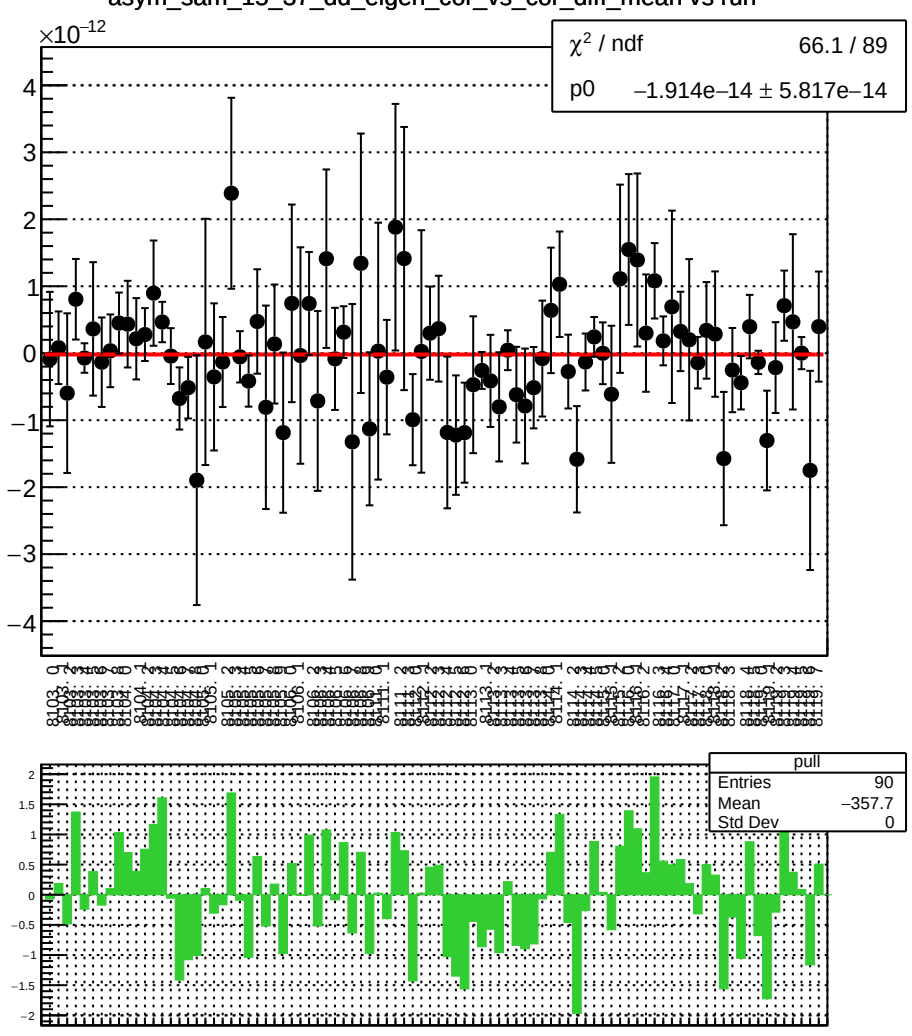

pull1D
Entries 90
Mean 0.004266
Std Dev 0.8699

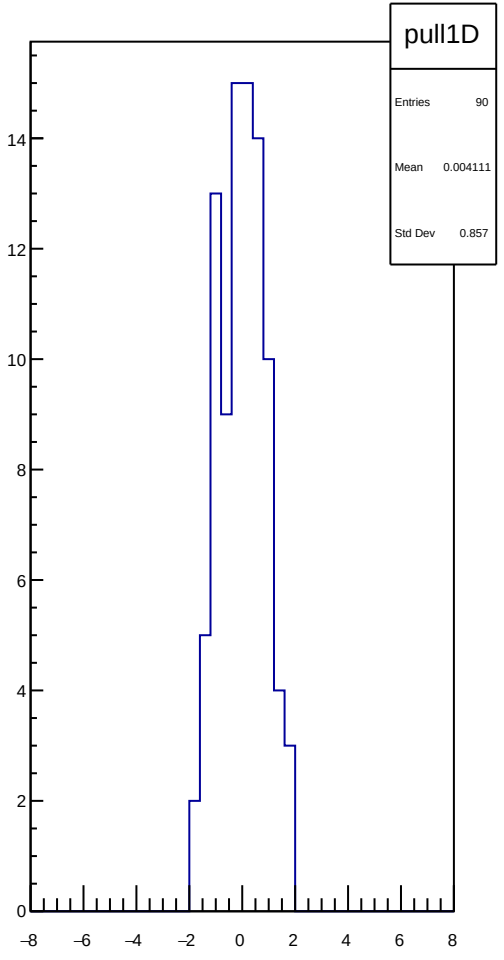

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.47e+04 / 89
p0 26.89 ± 0.02054
50
45
40
35
30
25
20

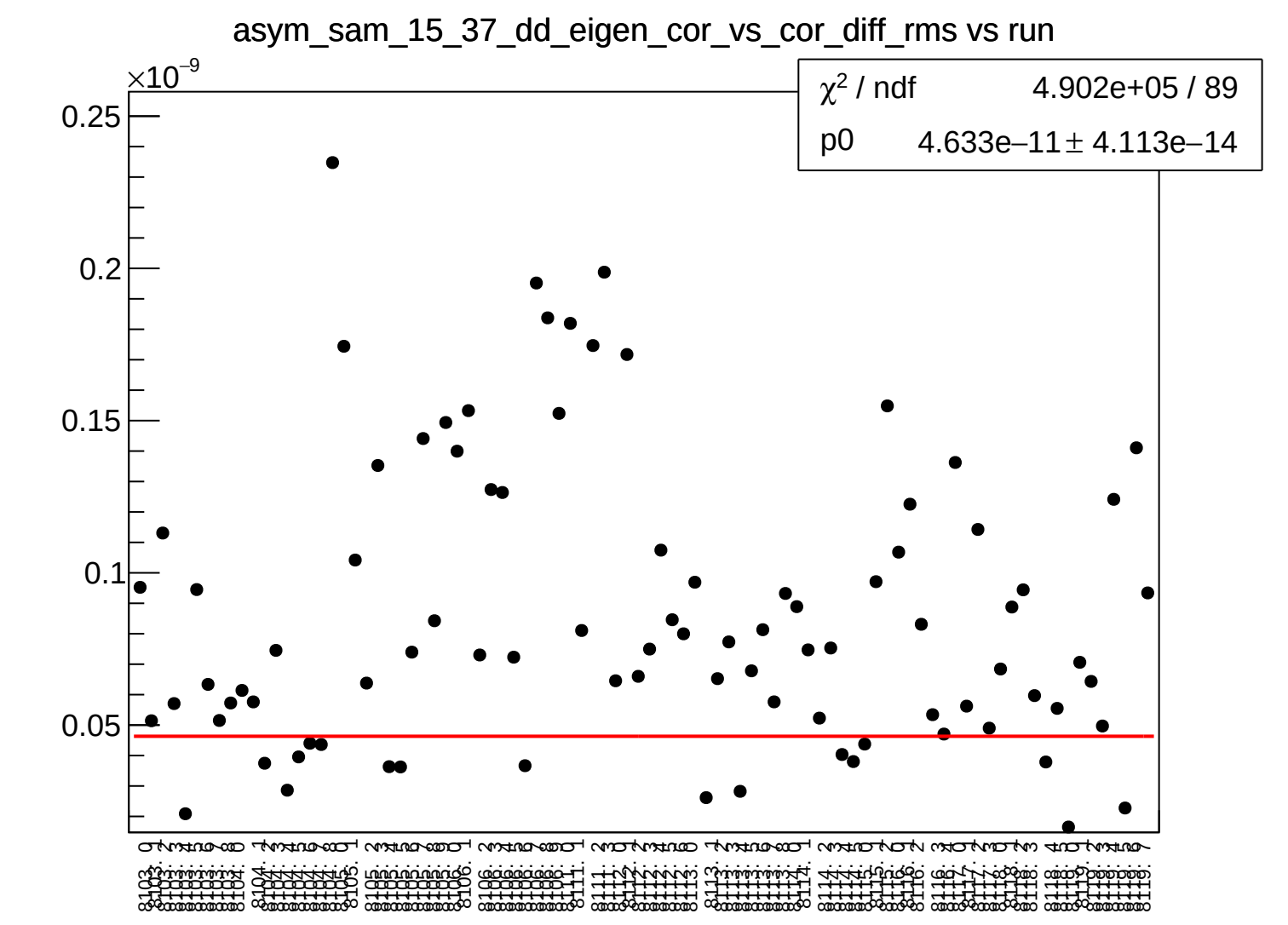

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.11 / 89
p0 −0.006797 ± 0.02904
pull
Entries 90
Mean −490.1
Std Dev 0

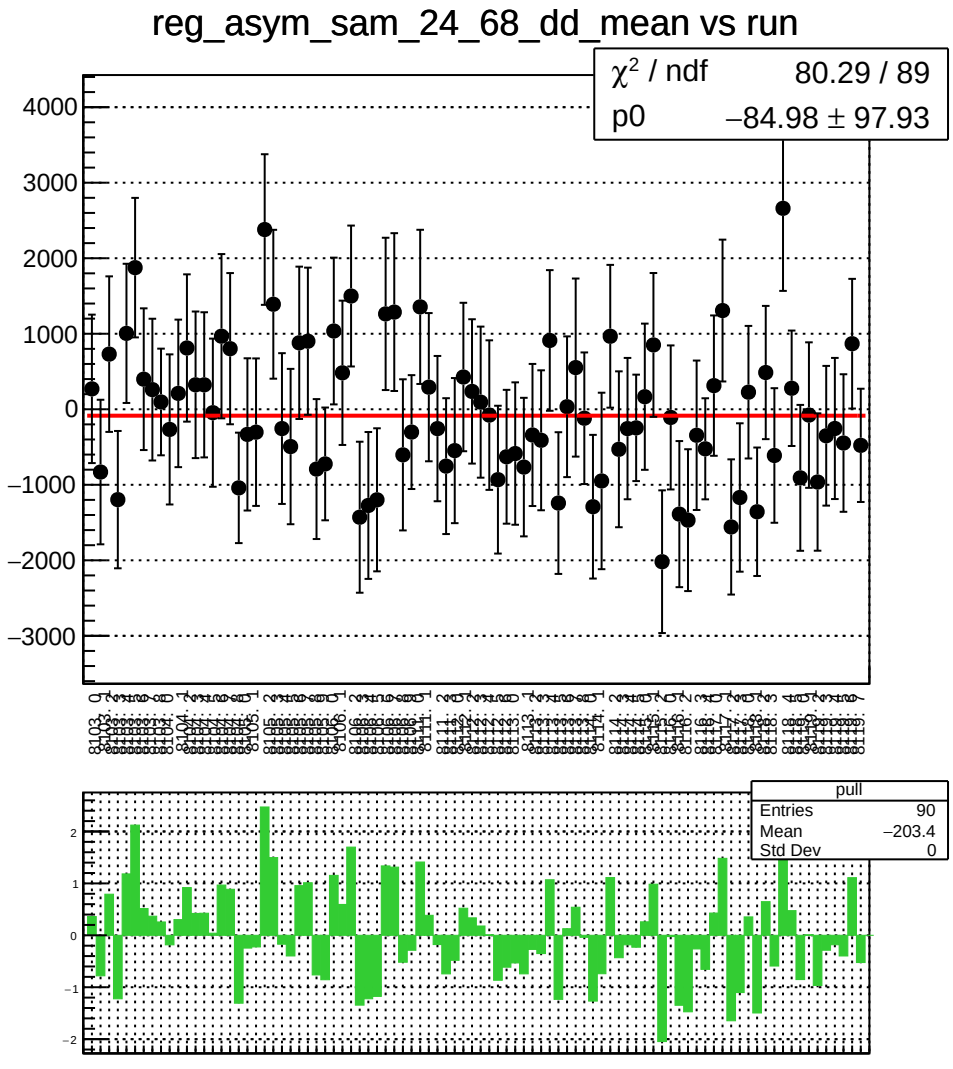

pull1D
Entries 90
Mean 0.004266
Std Dev 0.8699

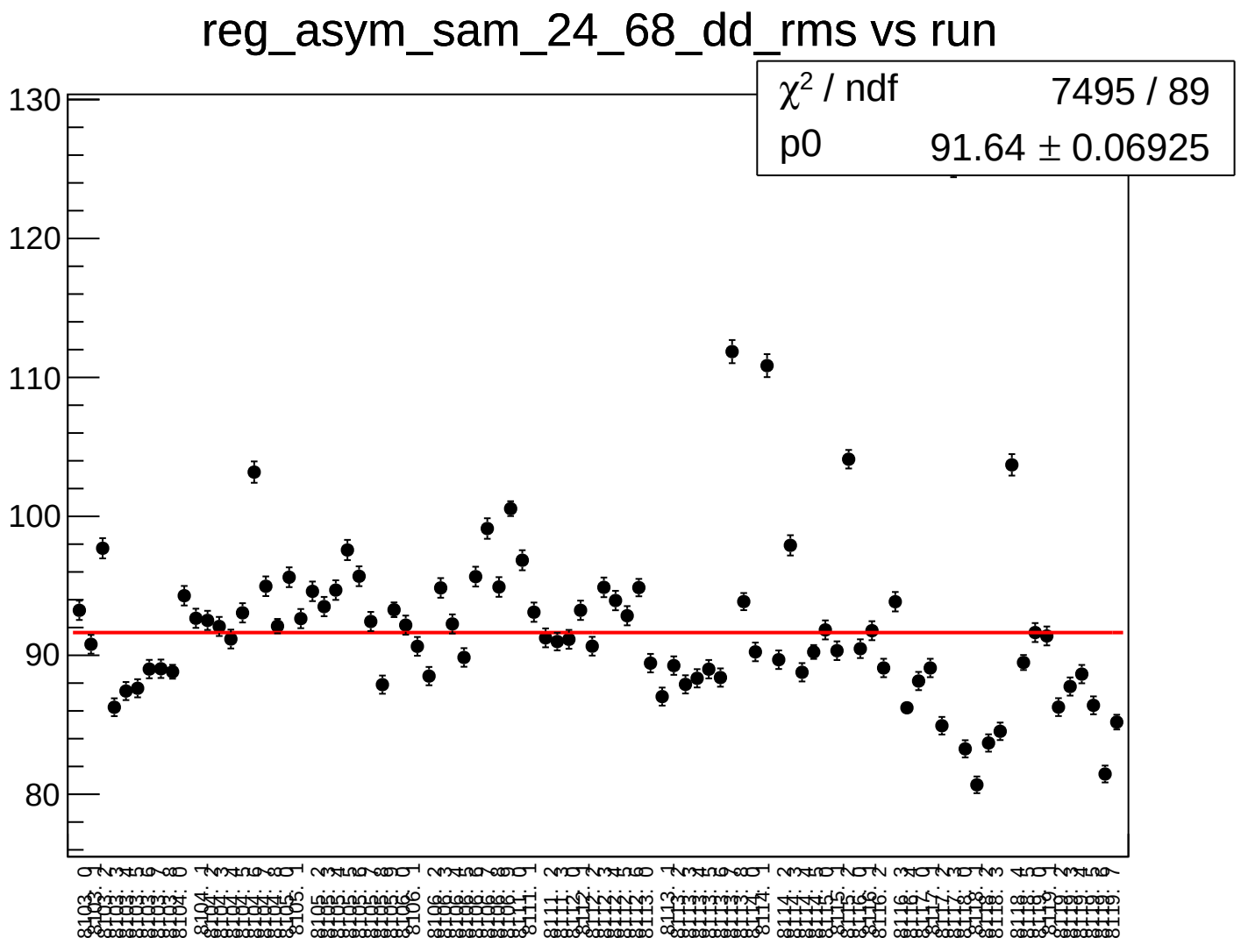

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.47e+04 / 89
p0 26.89 ± 0.02054
50
45
40
35
30
25
20

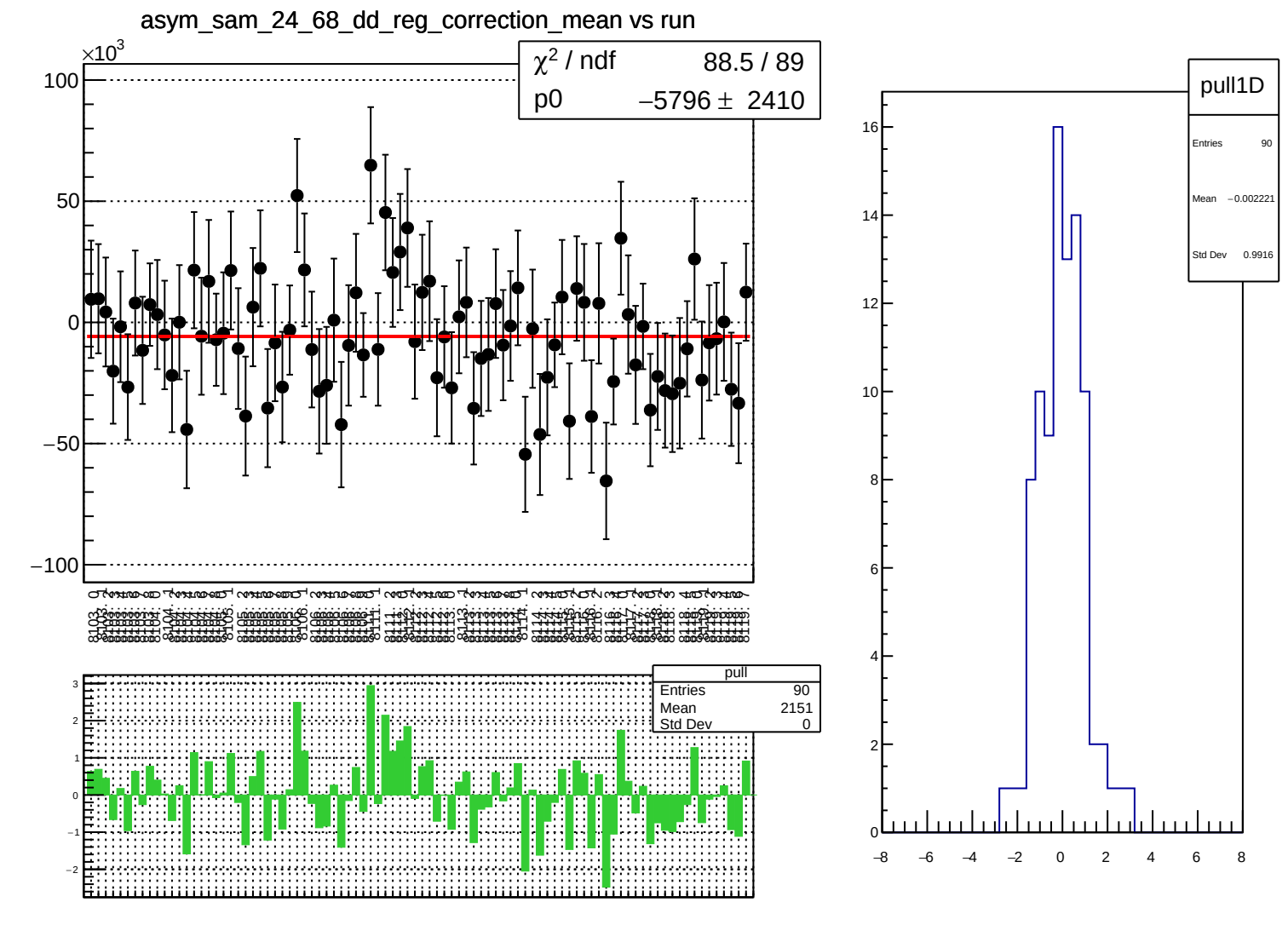

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.1 / 89
p0 −1.914e−14 ± 5.817e−14
pull
Entries 90
Mean −357.7
Std Dev 0

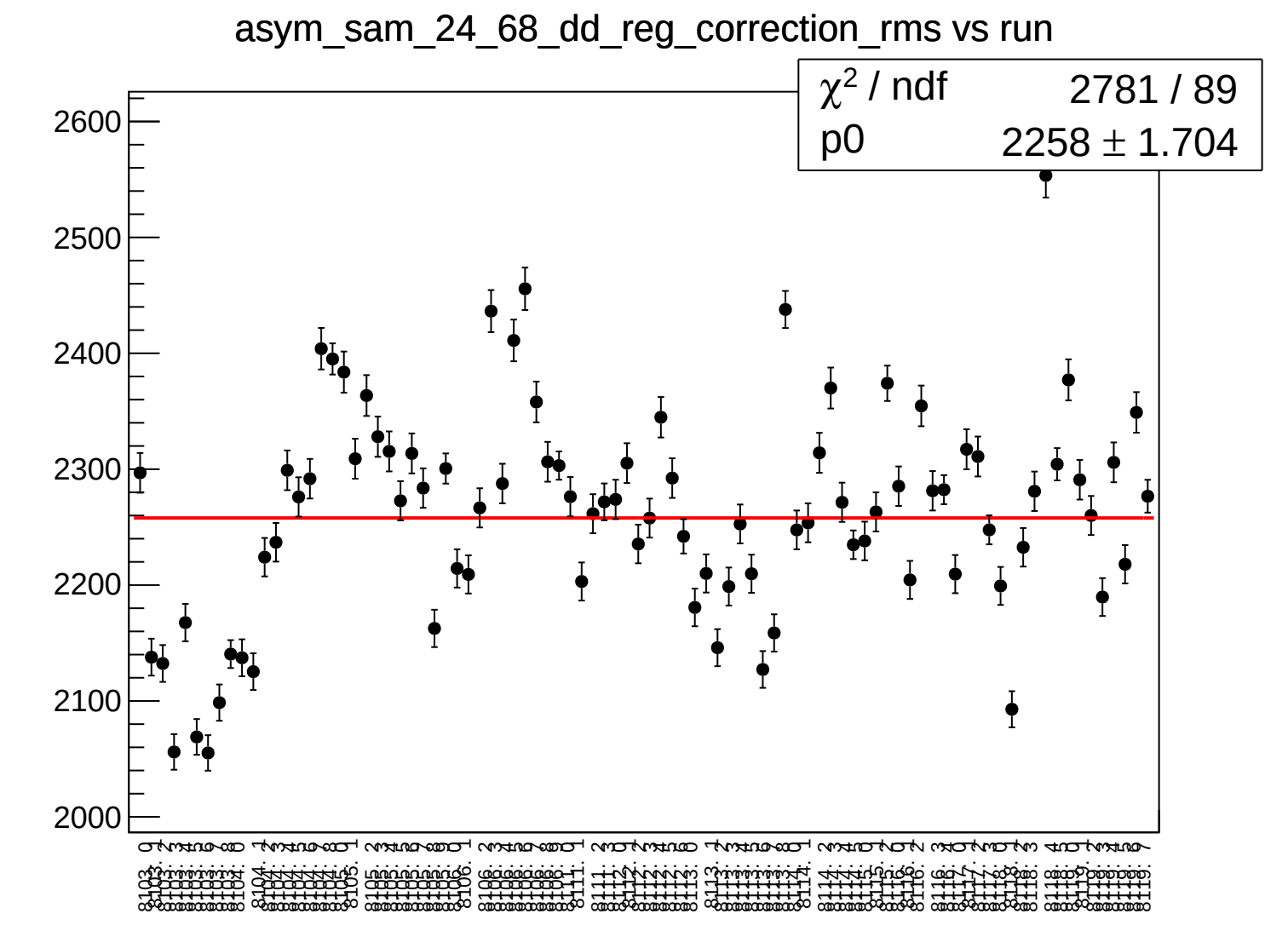

pull1D
Entries 90
Mean 0.004111
Std Dev 0.857

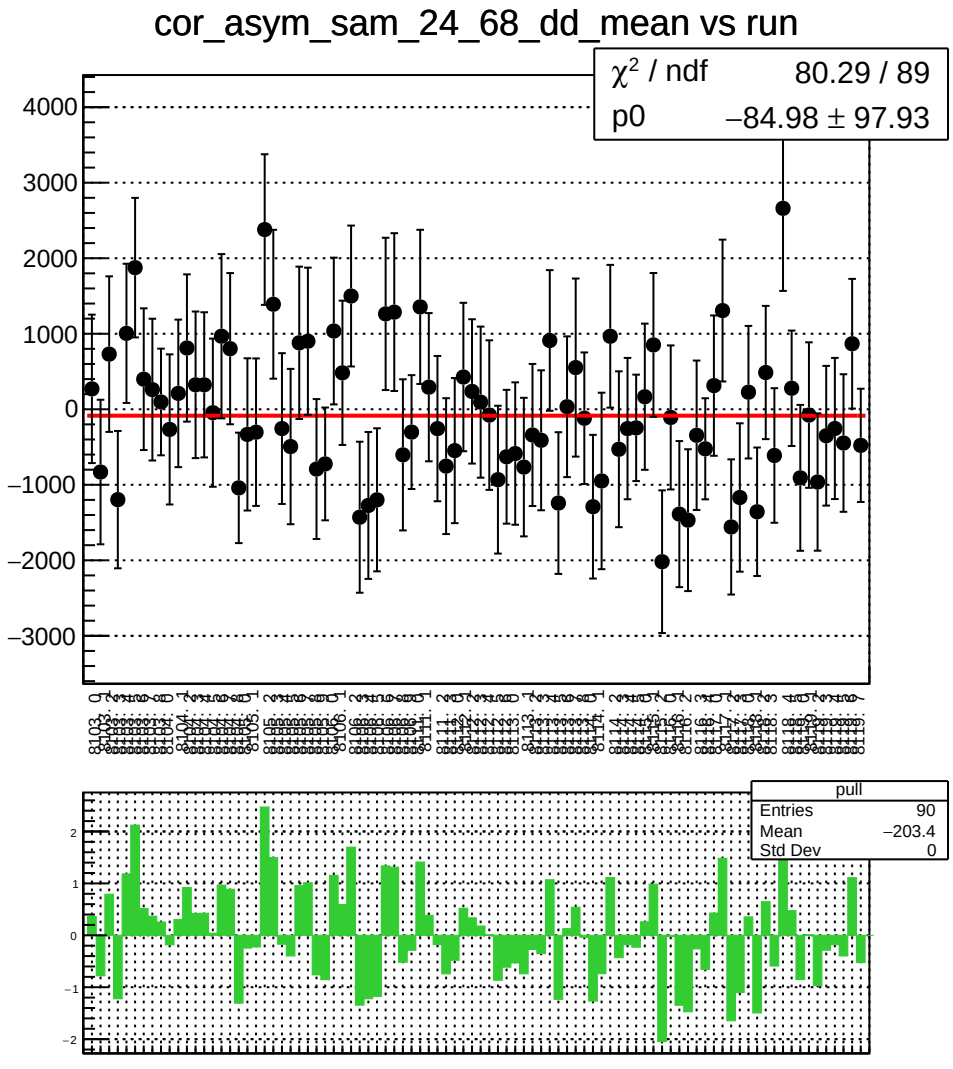

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.902e+05 / 89
p0 4.633e−11 ± 4.113e−14
0.25
0.2
0.15
0.1
0.05

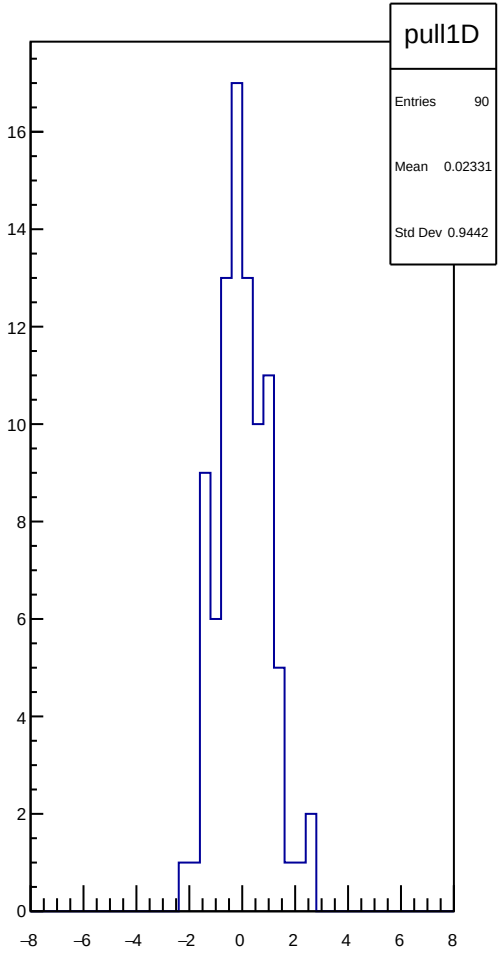

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.29 / 89
p0 −84.98 ± 97.93
pull
Entries 90
Mean −203.4
Std Dev 0
pull1D
Entries 90
Mean 0.02331
Std Dev 0.9443

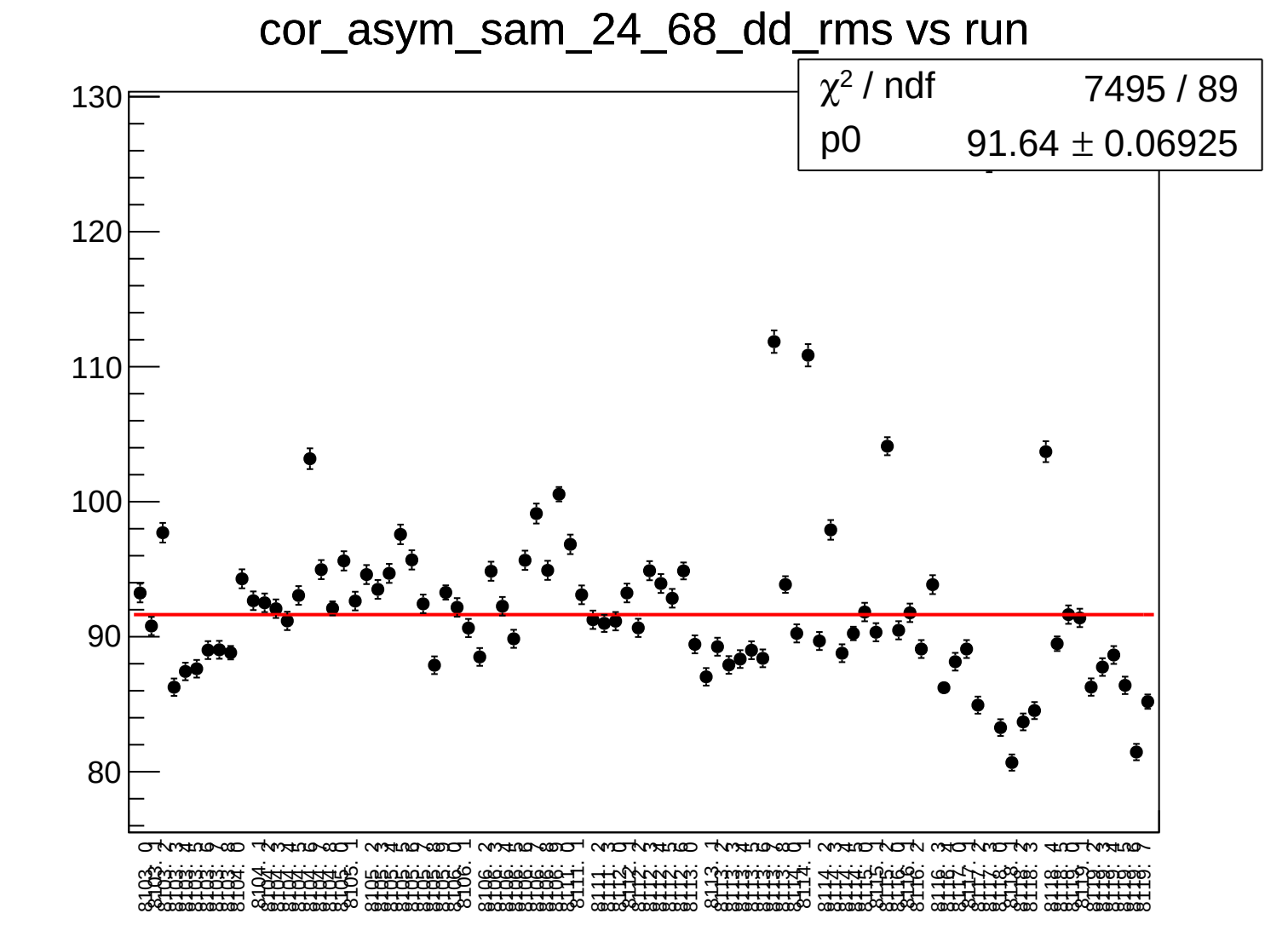

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 7495 / 89
p0 91.64 ± 0.06925
130
120
110
100
90
80

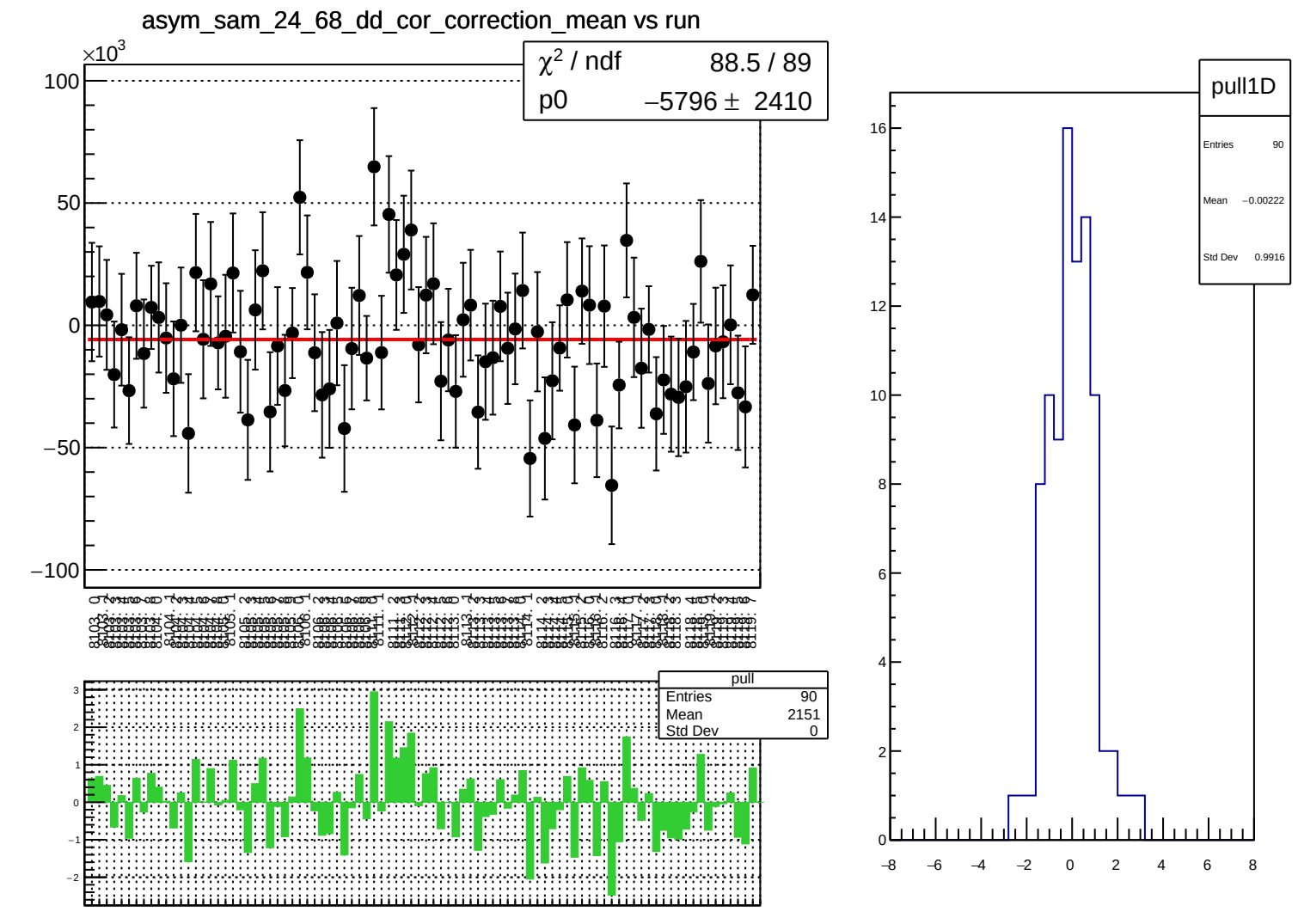

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.5 / 89
p0 −5796 ± 2410
pull
Entries 90
Mean 2151
Std Dev 0
pull1D
Entries 90
Mean −0.002221
Std Dev 0.9916

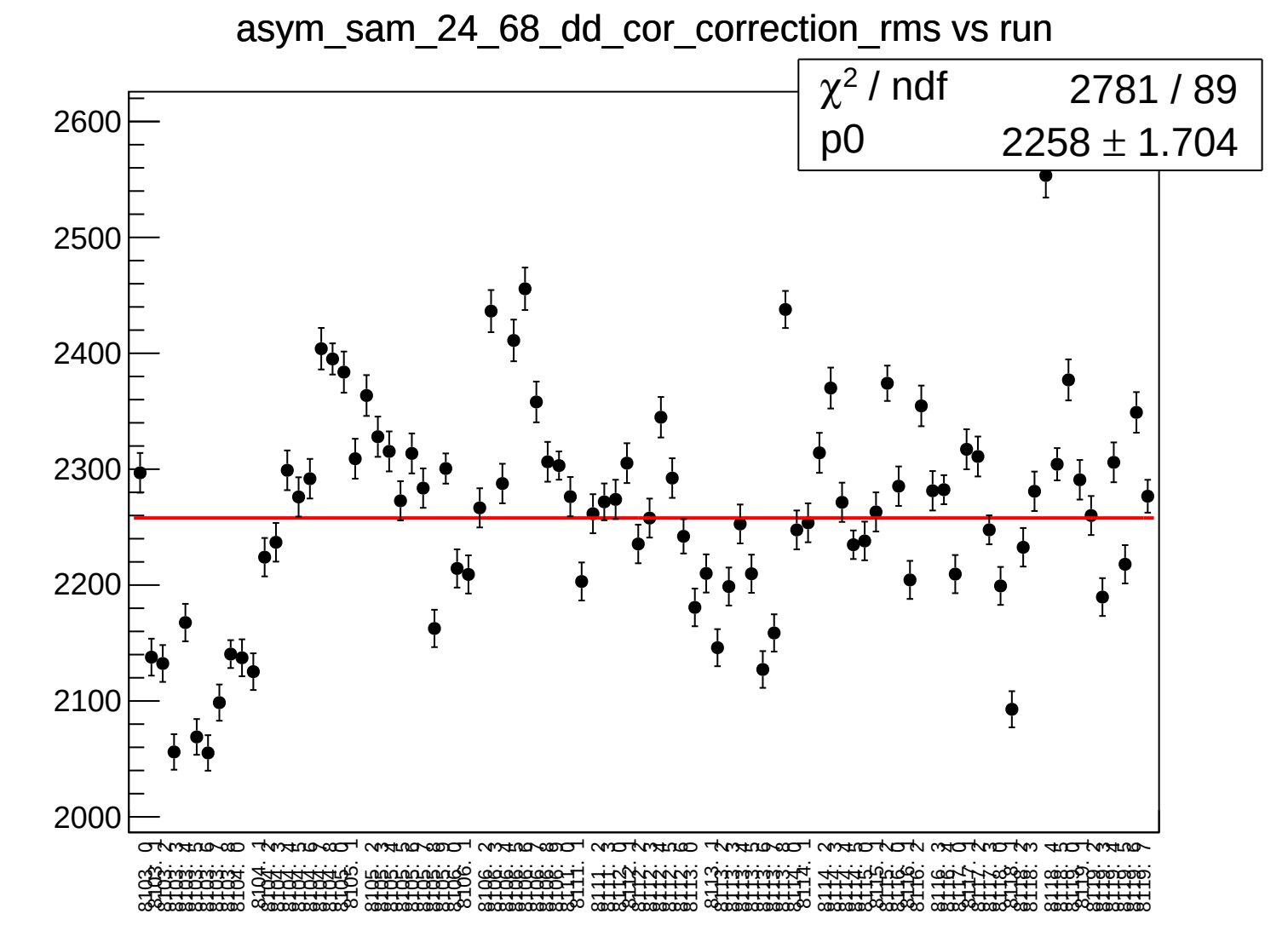

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2781 / 89
p0 2258 ± 1.704
2600
2500
2400
2300
2200
2100
2000

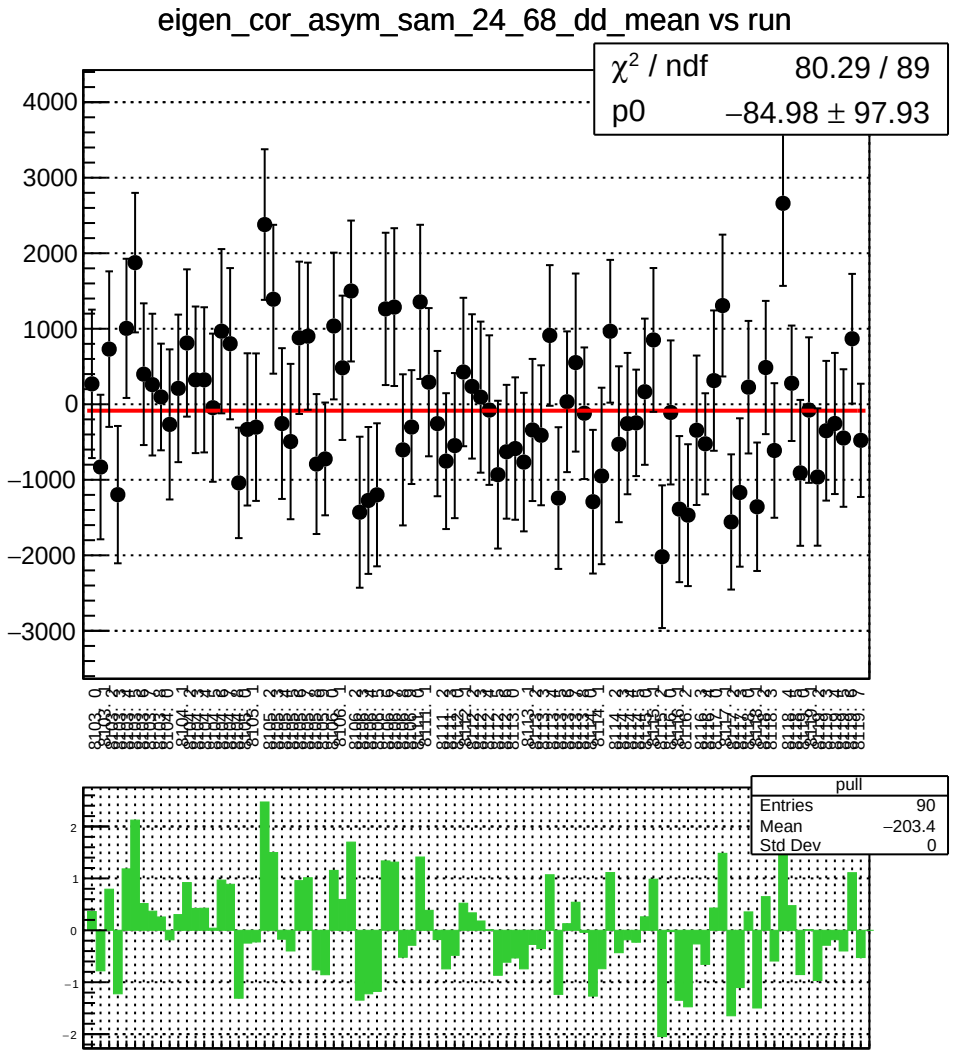

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.29 / 89
p0 −84.98 ± 97.93
pull
Entries 90
Mean −203.4
Std Dev 0

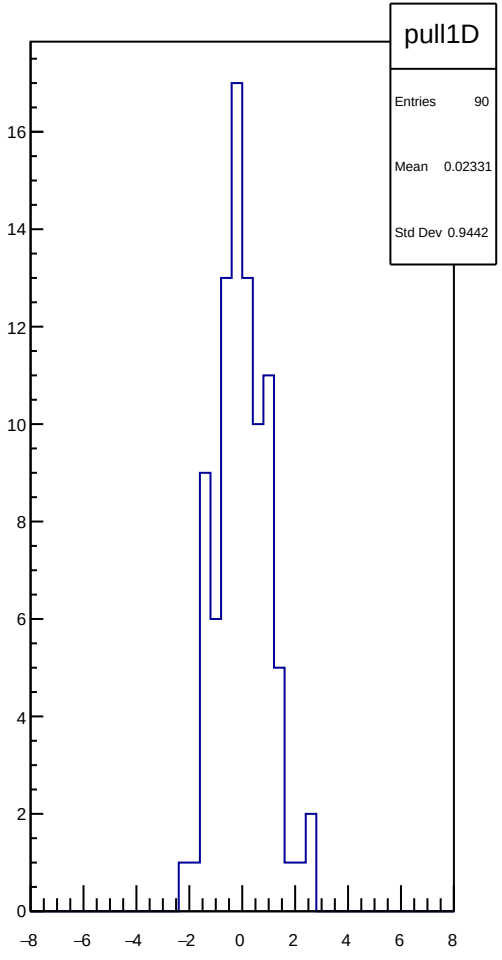

pull1D
Entries 90
Mean 0.02331
Std Dev 0.9442

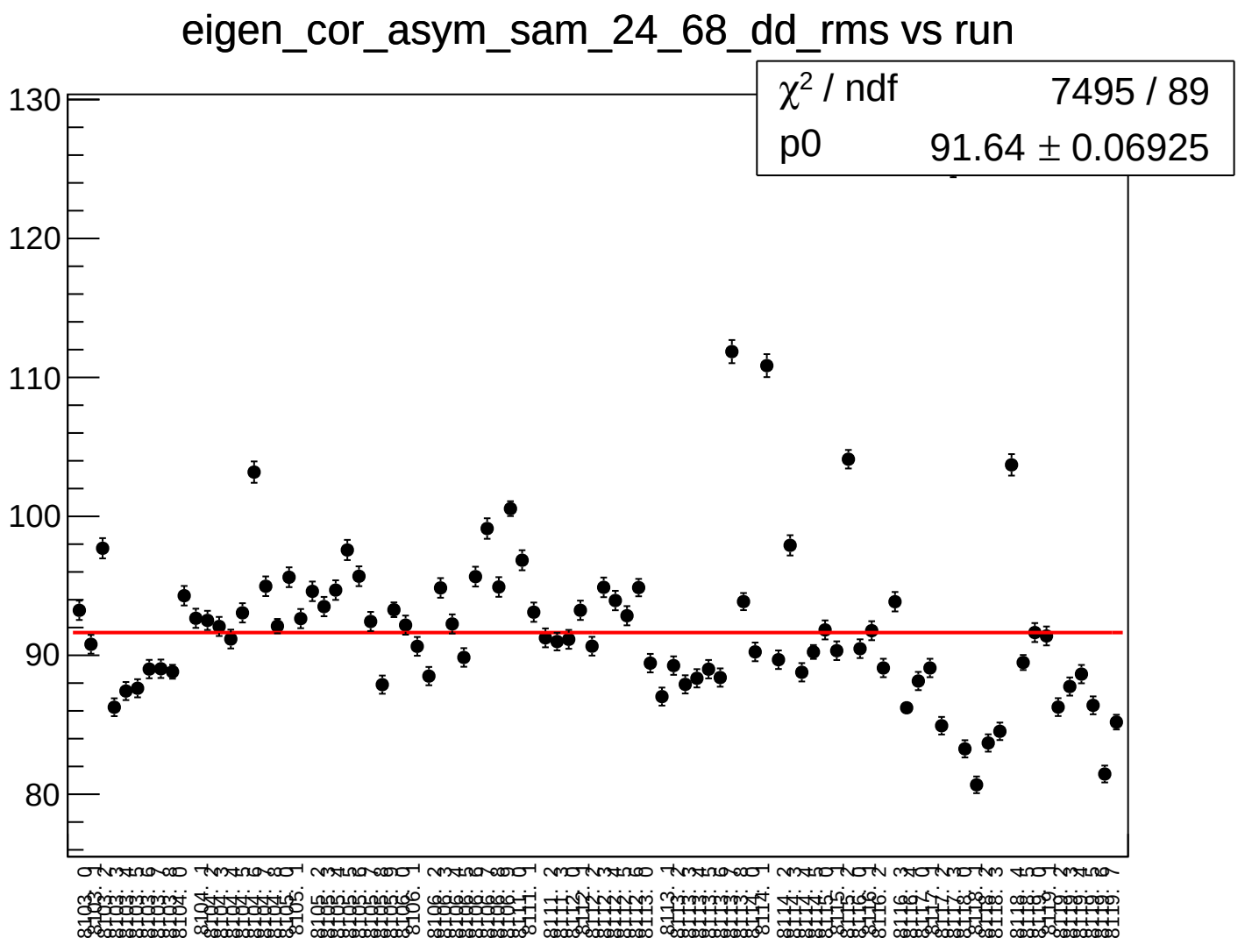

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 7495 / 89
p0 91.64 ± 0.06925
130
120
110
100
90
80

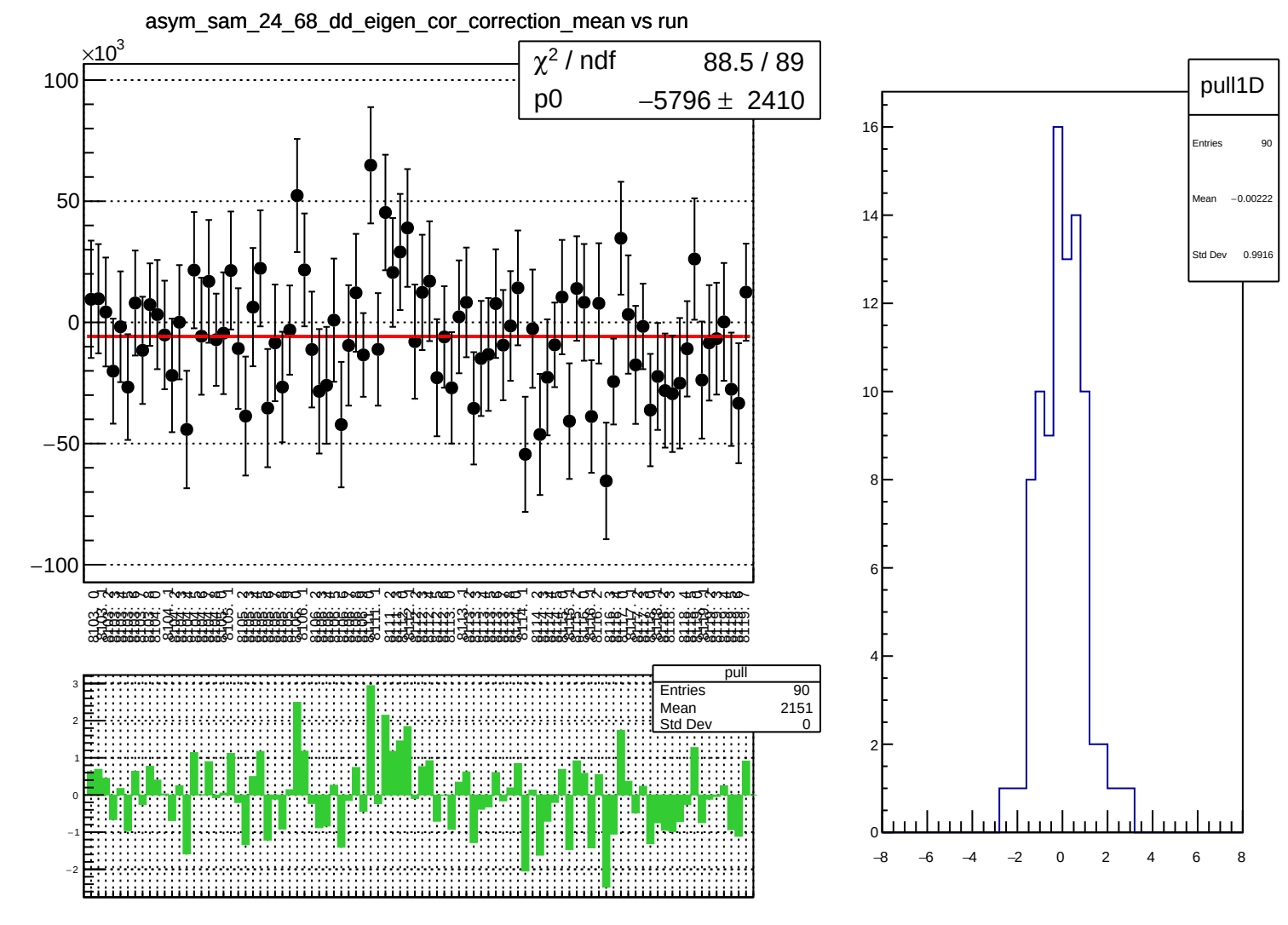

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.5 / 89
p0 −5796 ± 2410
100
50
0
−50
−100
pull
Entries 90
Mean 2151
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.00222
Std Dev 0.9916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

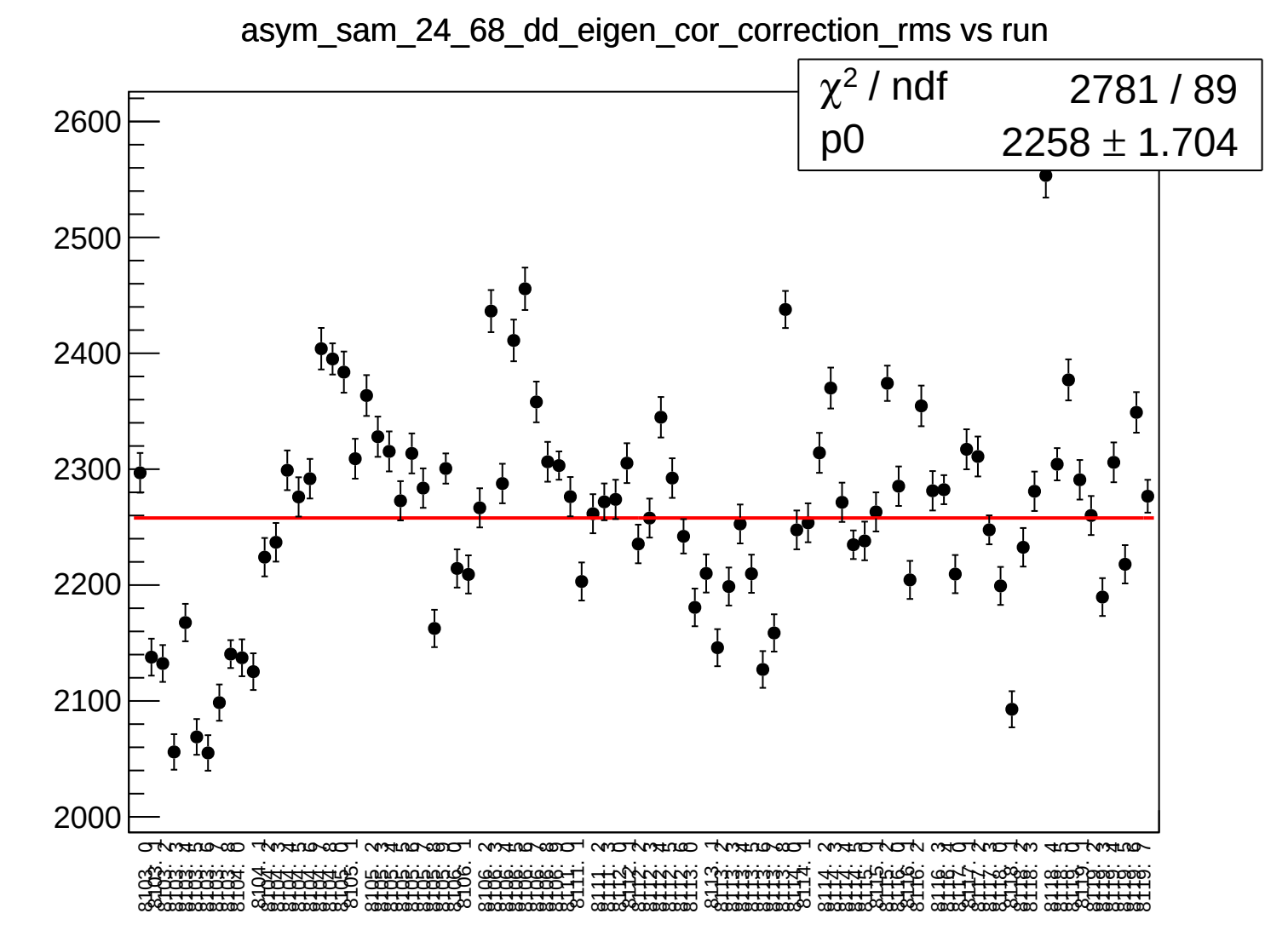

asym_sam_24_68_dd_cor_correction_rms vs run
χ^2 / ndf 2781 / 89
p0 2258 ± 1.704
2600
2500
2400
2300
2200
2100
2000

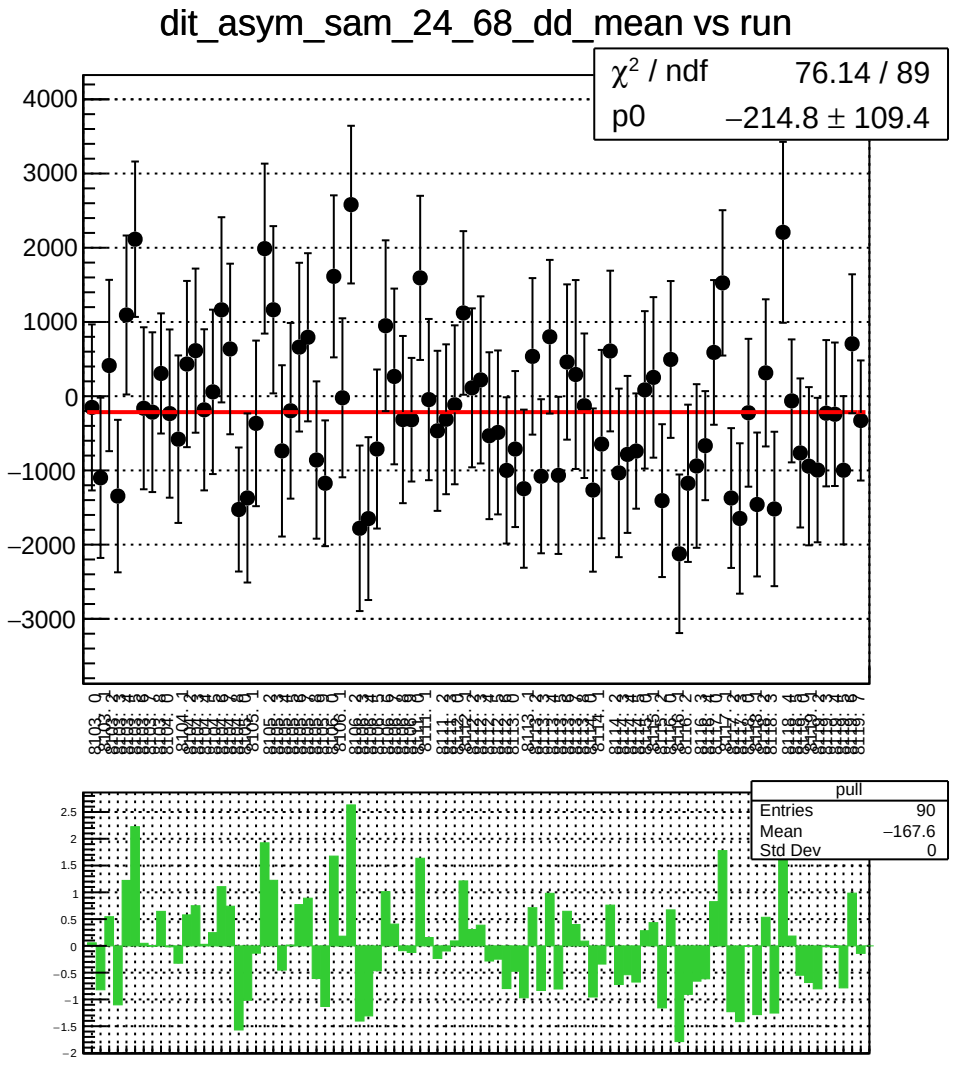

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.29 / 89
p0 −84.98 ± 97.93
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −203.4
Std Dev 0
2
1
0
−1
−2

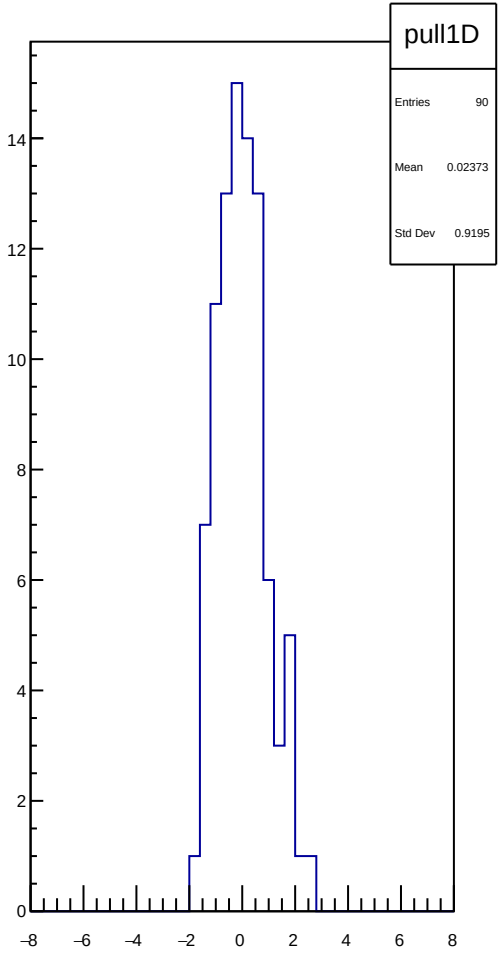

pull1D
Entries 90
Mean 0.02331
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

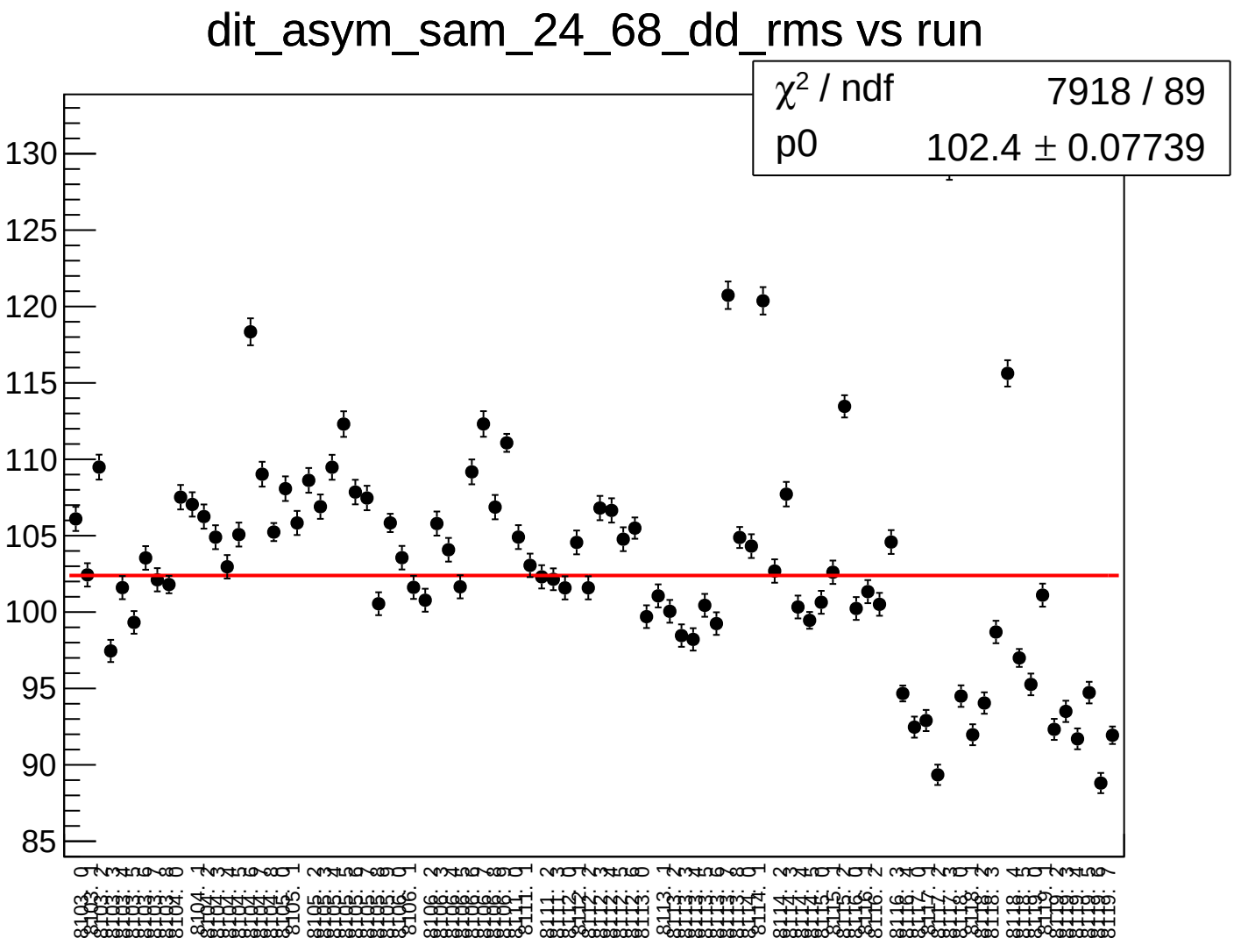

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 7495 / 89
p0 91.64 ± 0.06925
130
120
110
100
90
80

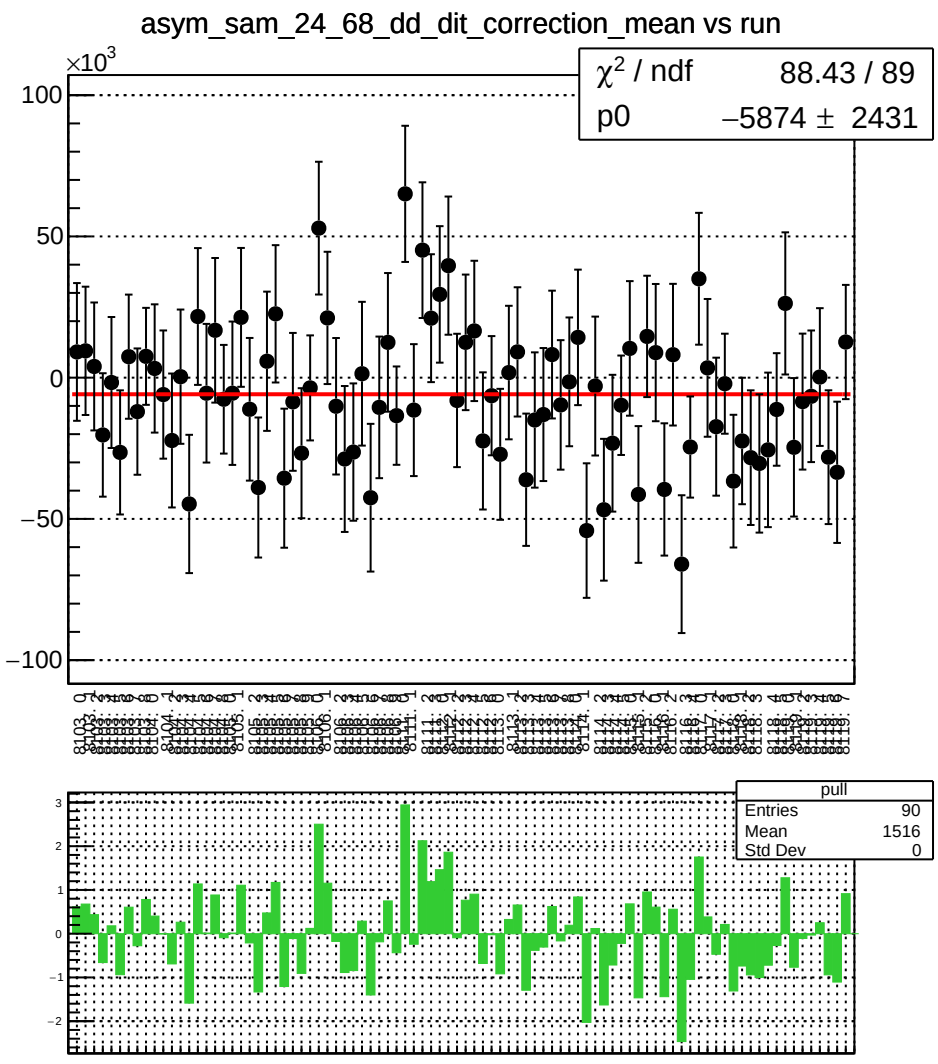

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.5 / 89
p0 −5796 ± 2410
pull
Entries 90
Mean 2151
Std Dev 0
pull1D
Entries 90
Mean −0.00222
Std Dev 0.9916

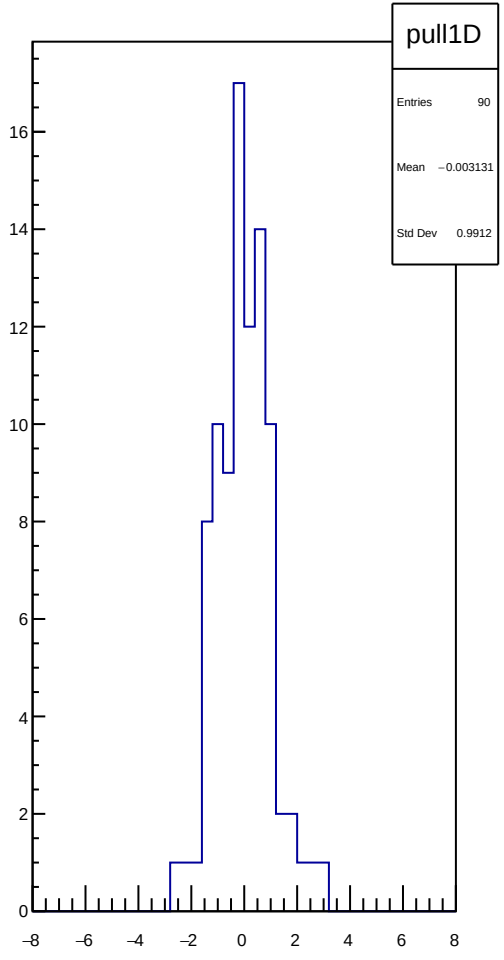

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2781 / 89
p0 2258 ± 1.704
2600
2500
2400
2300
2200
2100
2000

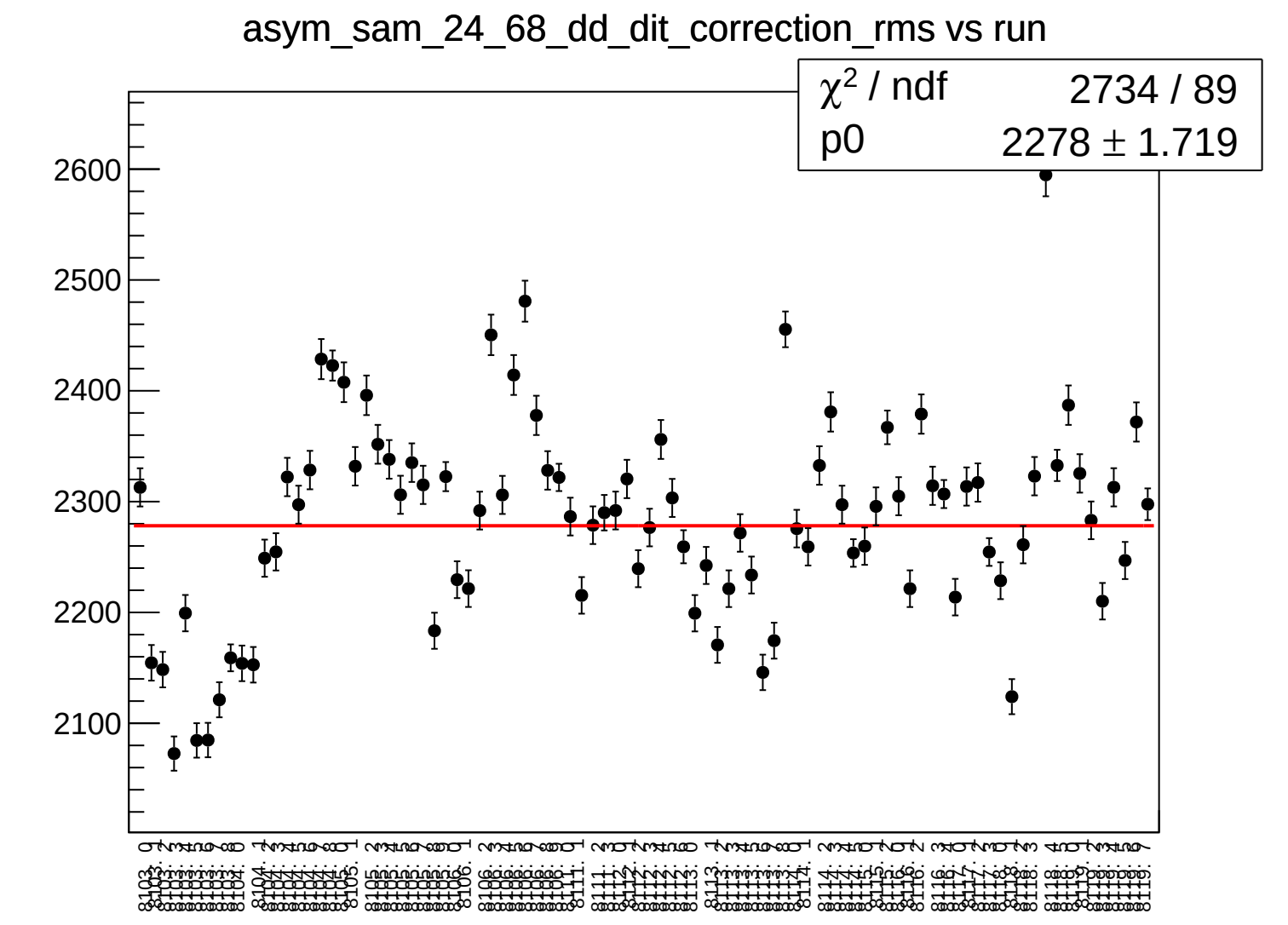

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 76.14 / 89
p0 −214.8 ± 109.4
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −167.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

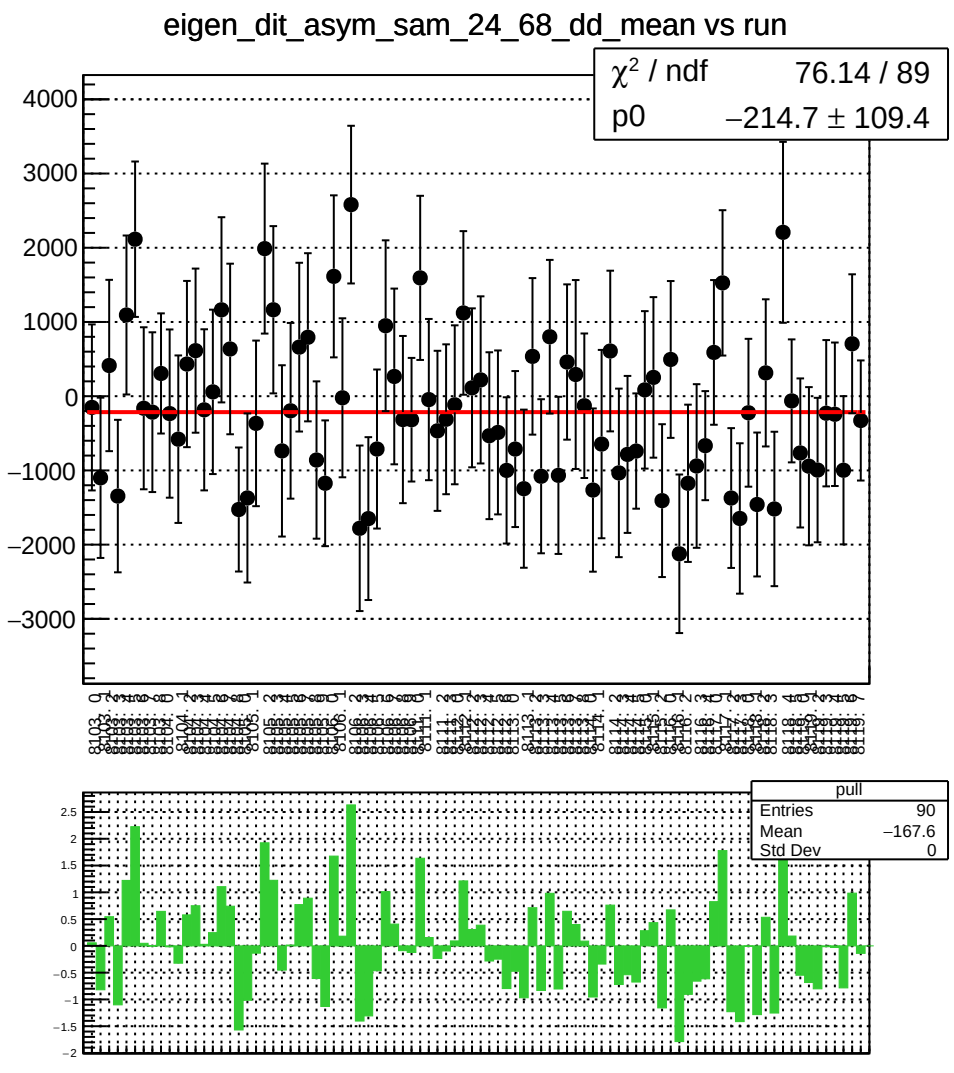

pull1D
Entries 90
Mean 0.02373
Std Dev 0.9195
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

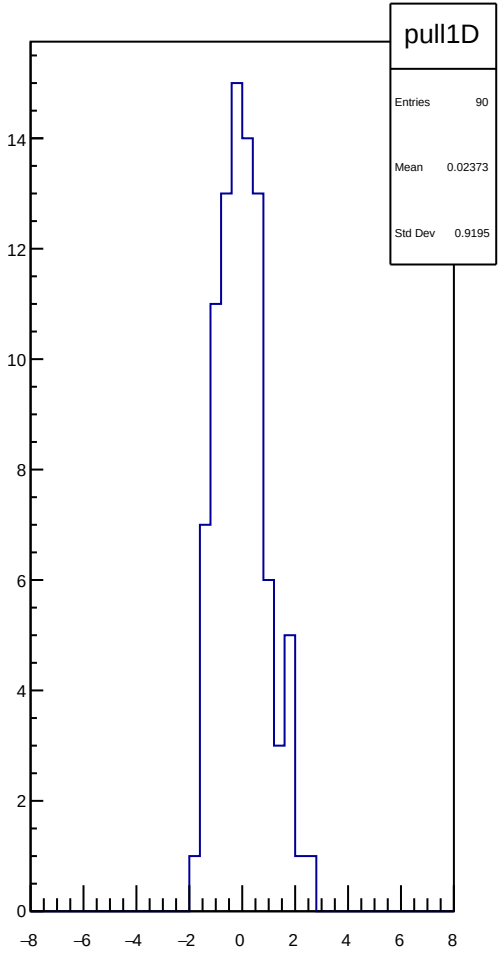

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 7918 / 89
p0 102.4 ± 0.07739
130
125
120
115
110
105
100
95
90
85

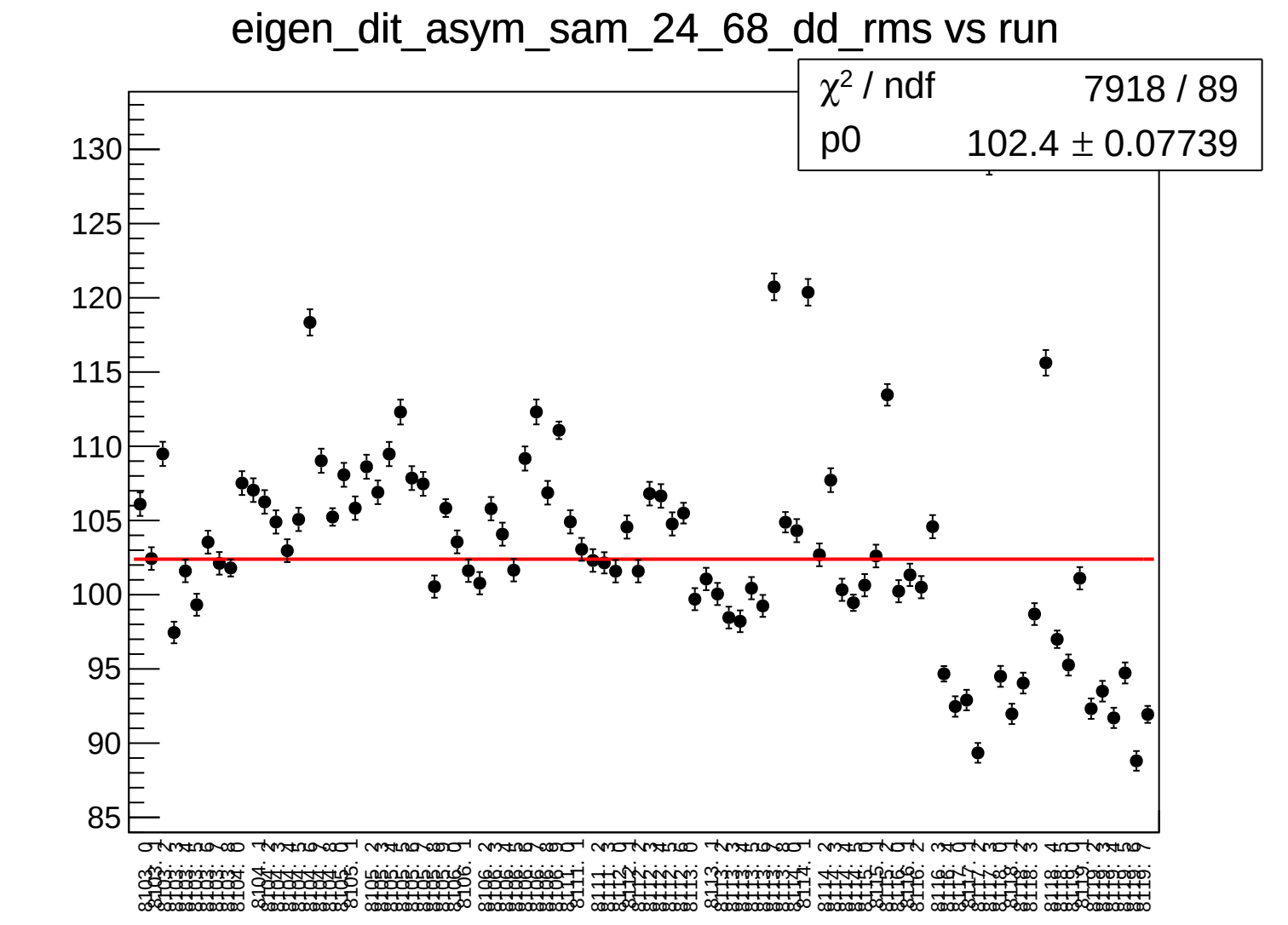

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.43 / 89
p0 −5874 ± 2431
100
50
0
−50
−100
pull
Entries 90
Mean 1516
Std Dev 0
3
2
1
0
−1
−2

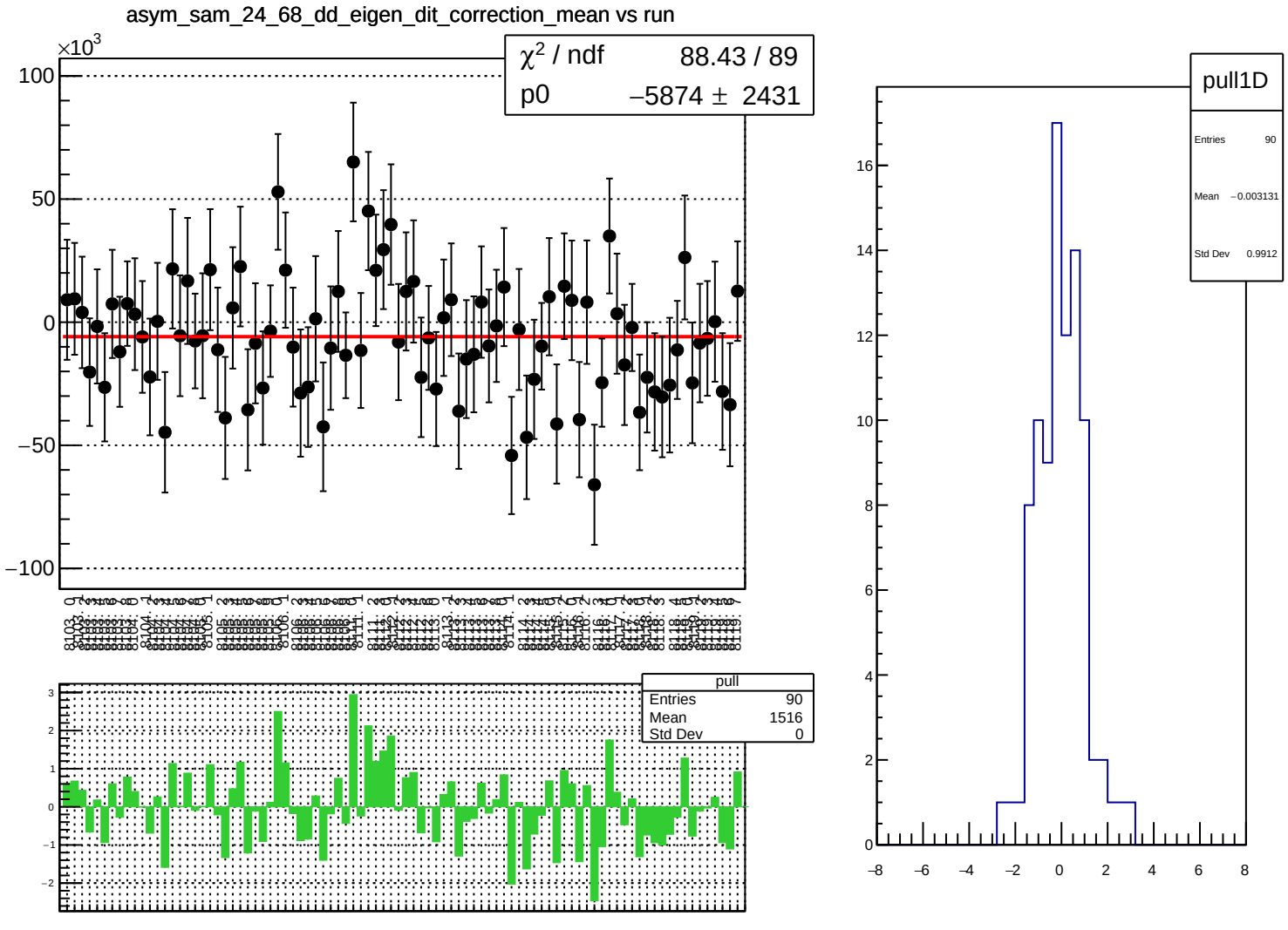

pull1D
Entries 90
Mean −0.003131
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

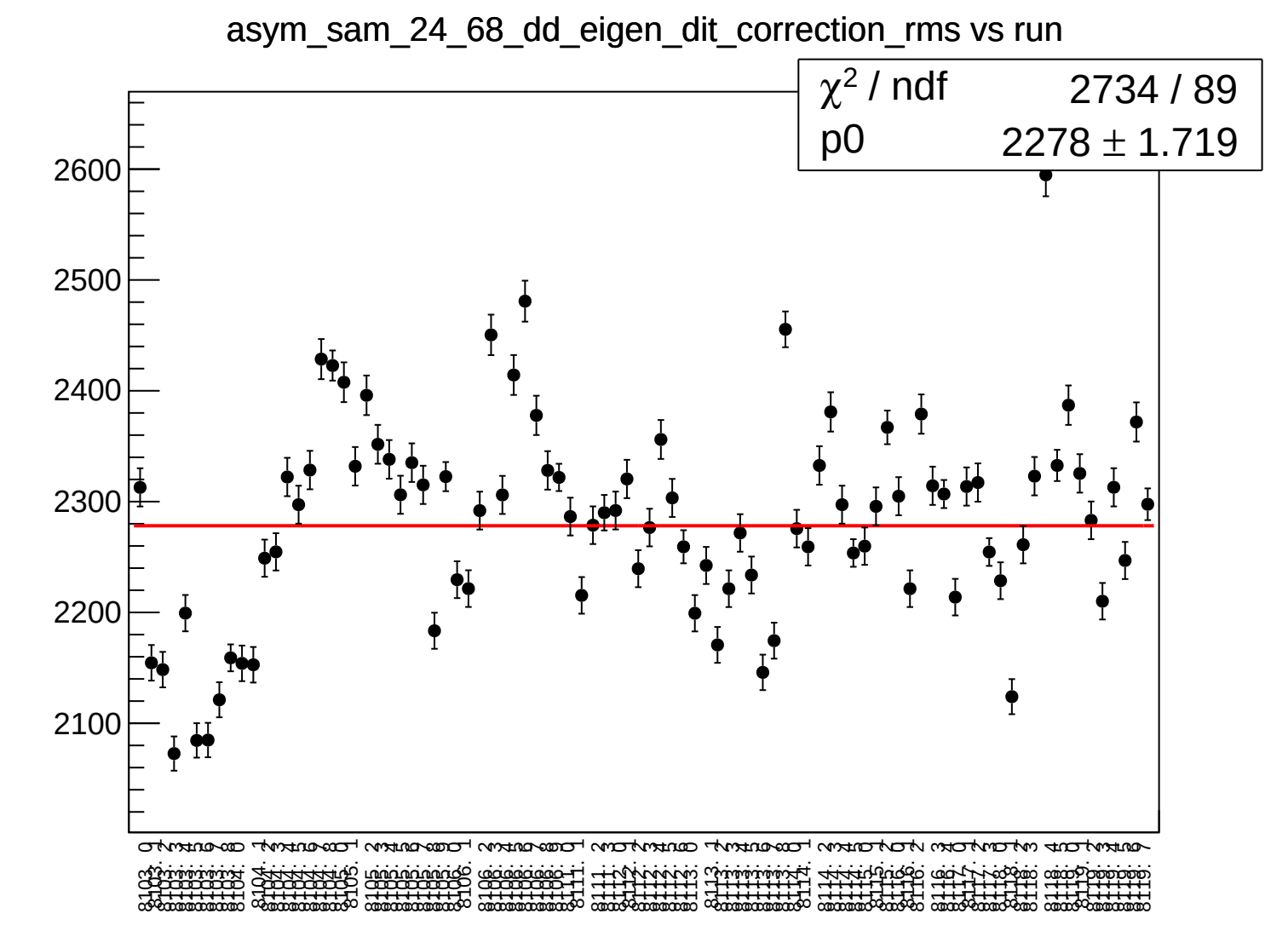

asym_sam_24_68_dd_dit_correction_rms vs run
χ^2 / ndf 2734 / 89
p0 2278 ± 1.719
2600
2500
2400
2300
2200
2100

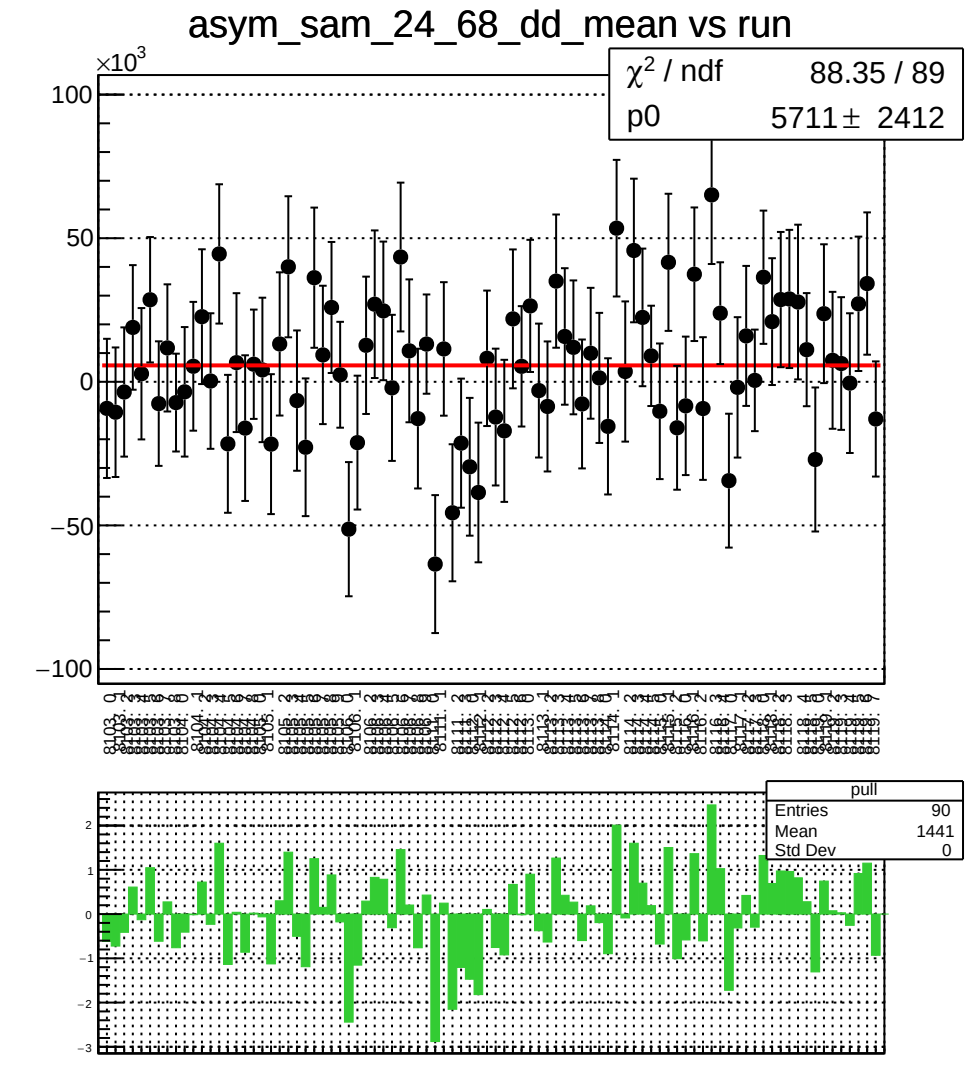

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 76.14 / 89
p0 −214.7 ± 109.4
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −167.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

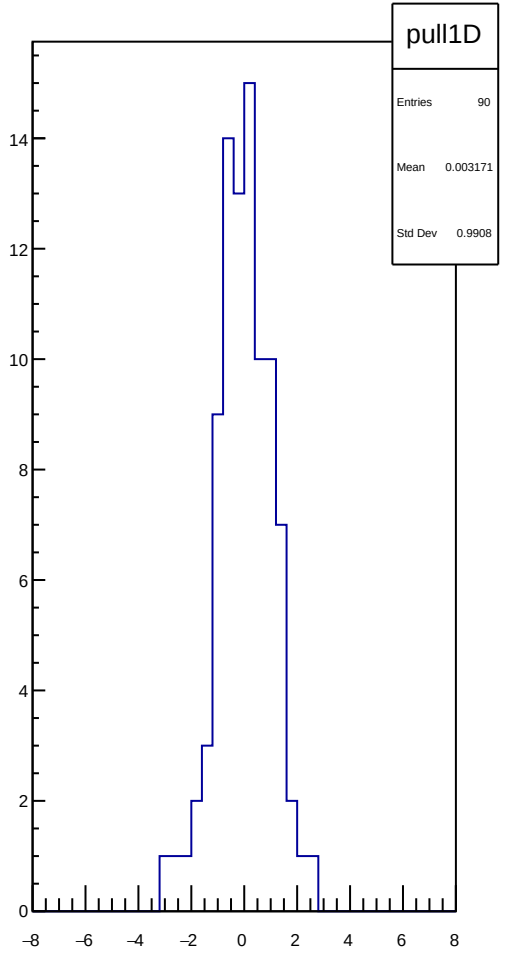

pull1D
Entries 90
Mean 0.02373
Std Dev 0.9195
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

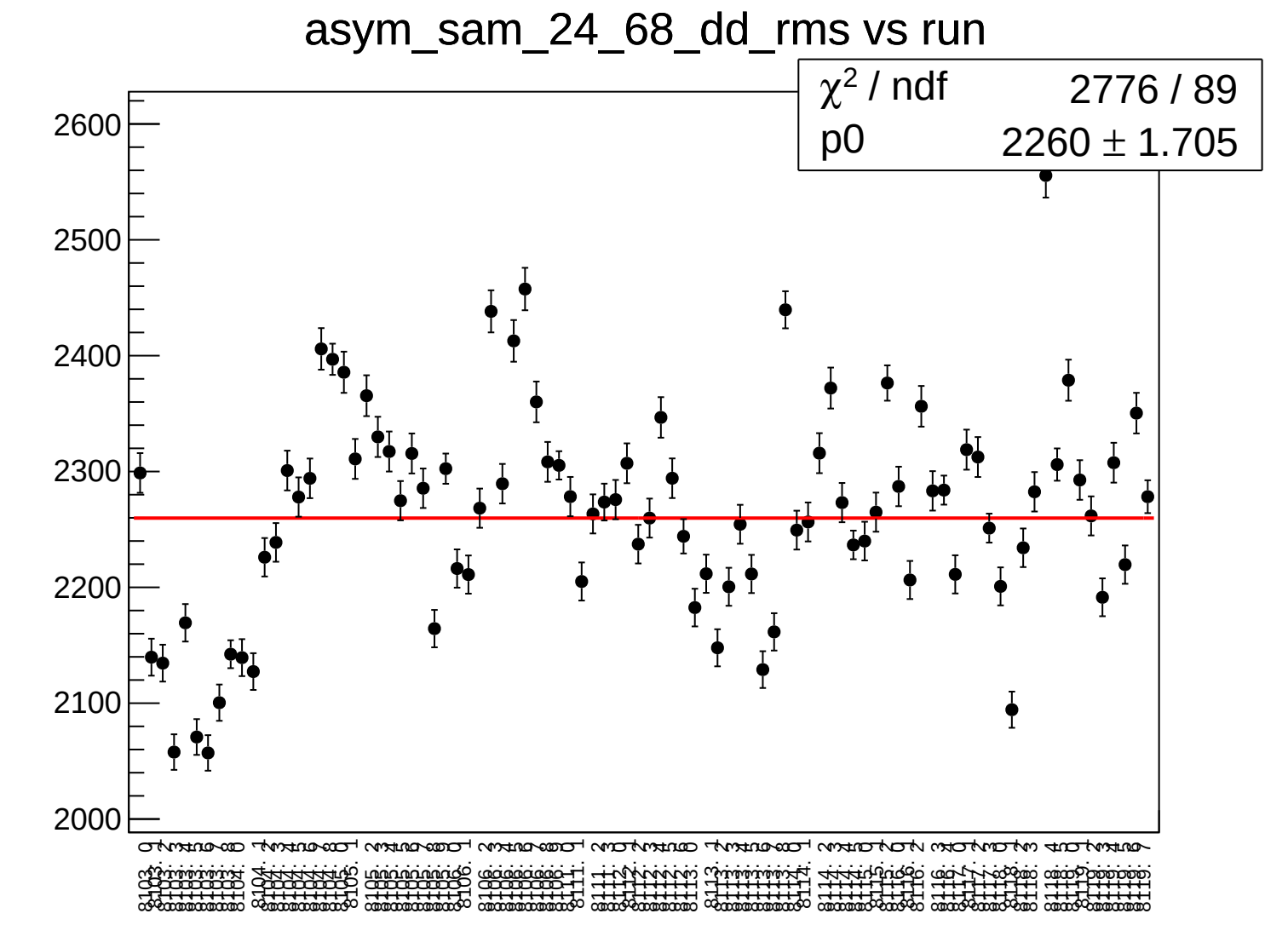

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 7918 / 89
p0 102.4 ± 0.07739
130
125
120
115
110
105
100
95
90
85

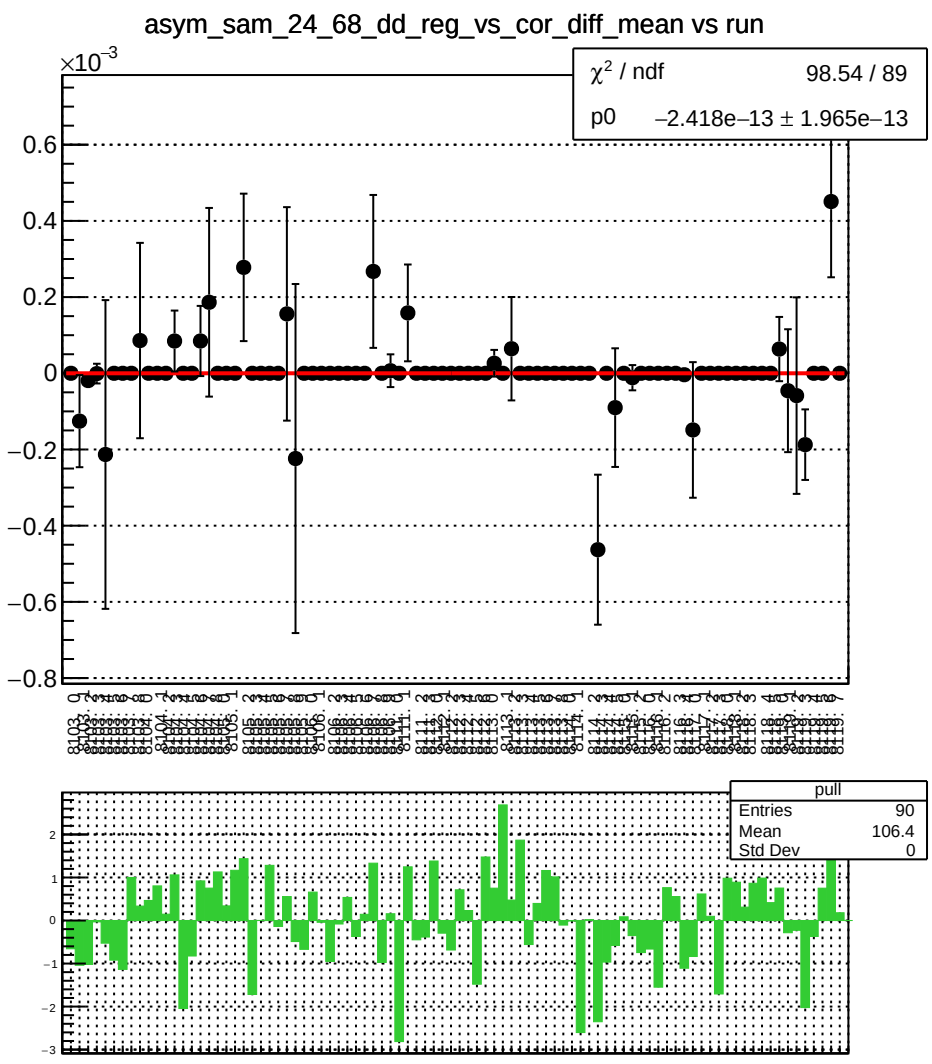

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.43 / 89
p0 −5874 ± 2431
100
50
0
−50
−100
pull
Entries 90
Mean 1516
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.003131
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

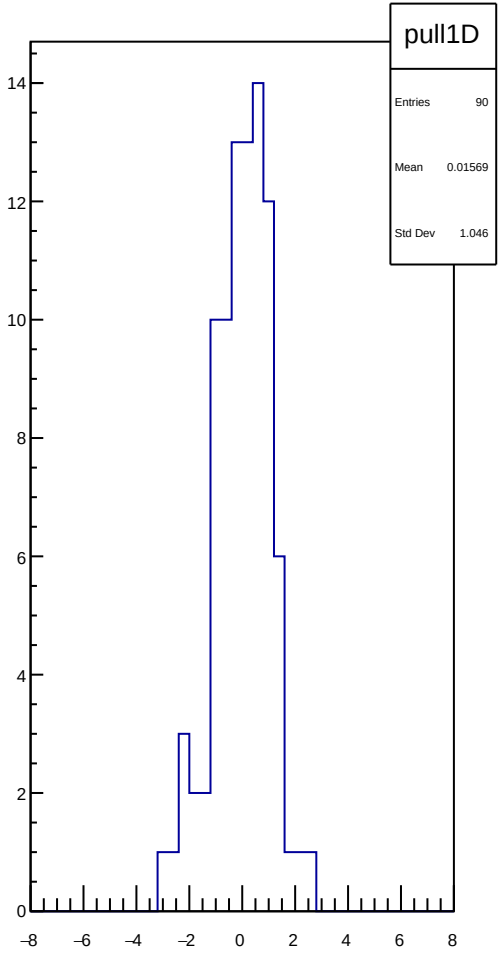

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2734 / 89
p0 2278 ± 1.719
2600
2500
2400
2300
2200
2100

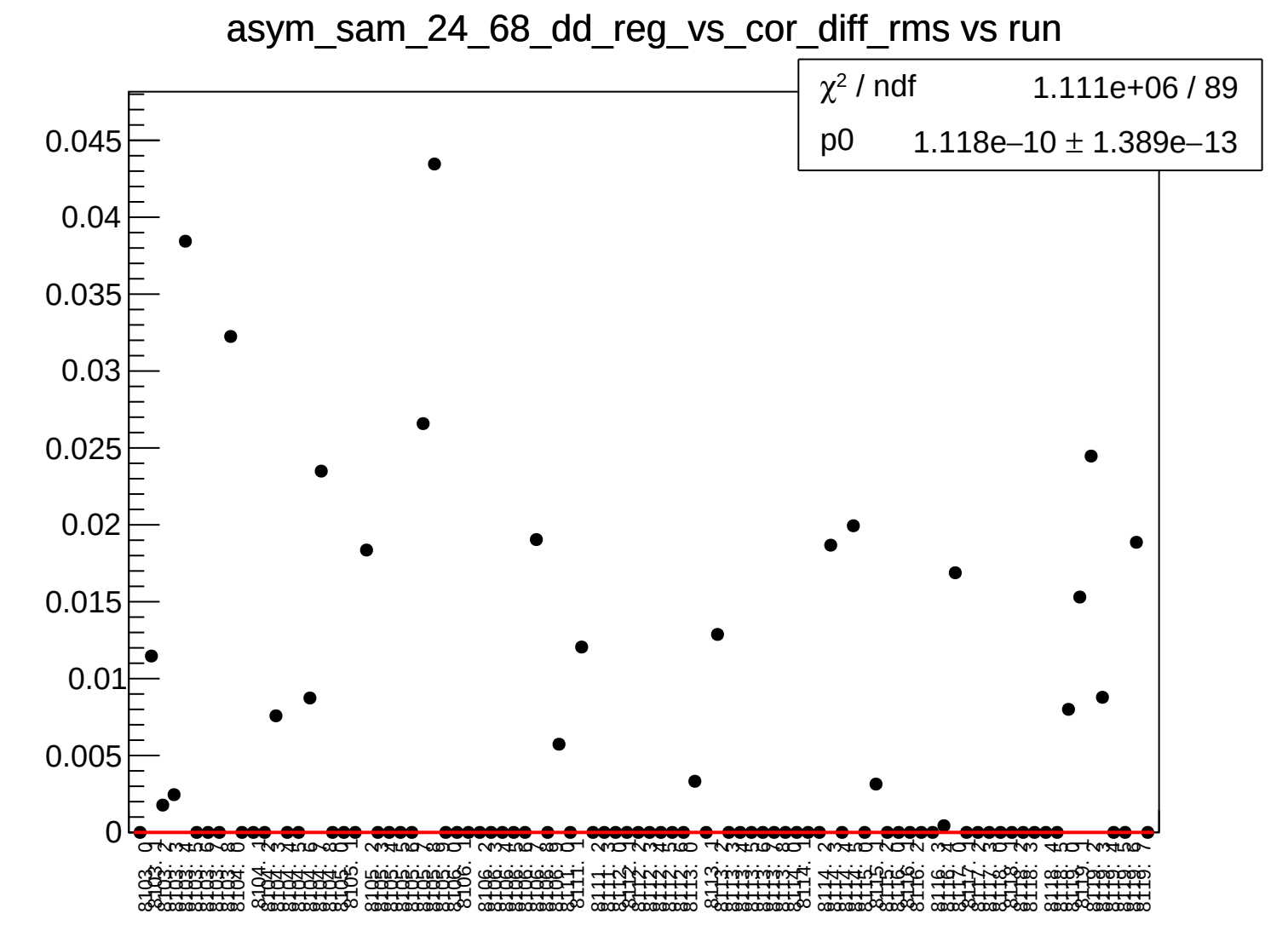

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 88.35 / 89
p0 5711 ± 2412
100
50
0
−50
−100
pull
Entries 90
Mean 1441
Std Dev 0
2
1
0
−1
−2
−3

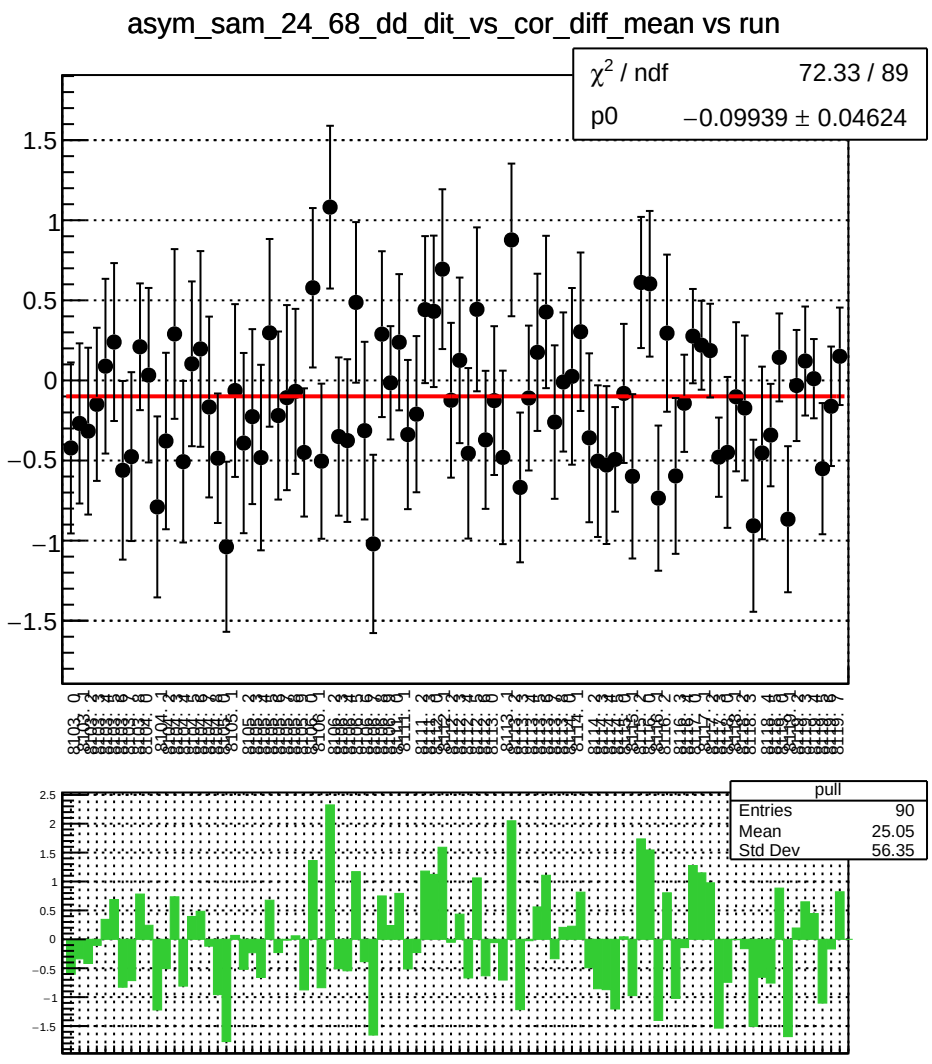

pull1D
Entries 90
Mean 0.003171
Std Dev 0.9908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

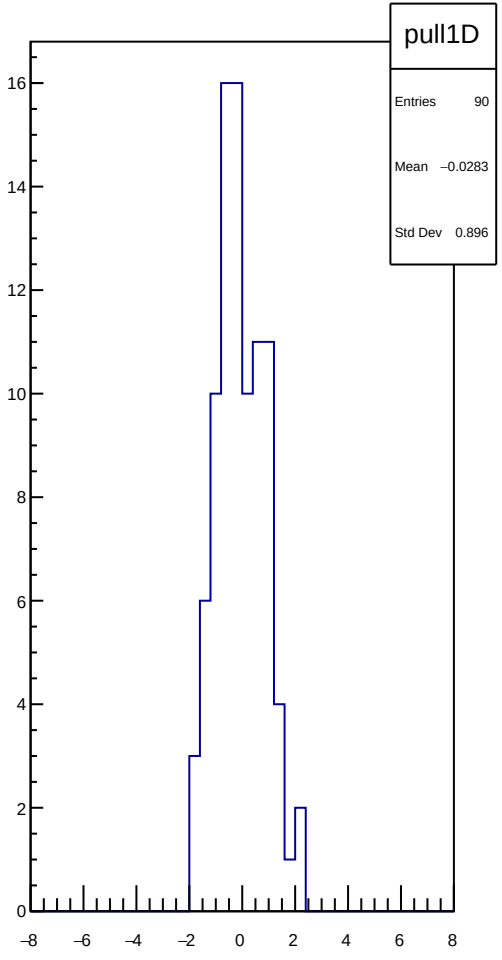

asym_sam_24_68_dd_rms vs run
χ² / ndf 2776 / 89
p0 2260 ± 1.705
2600
2500
2400
2300
2200
2100
2000

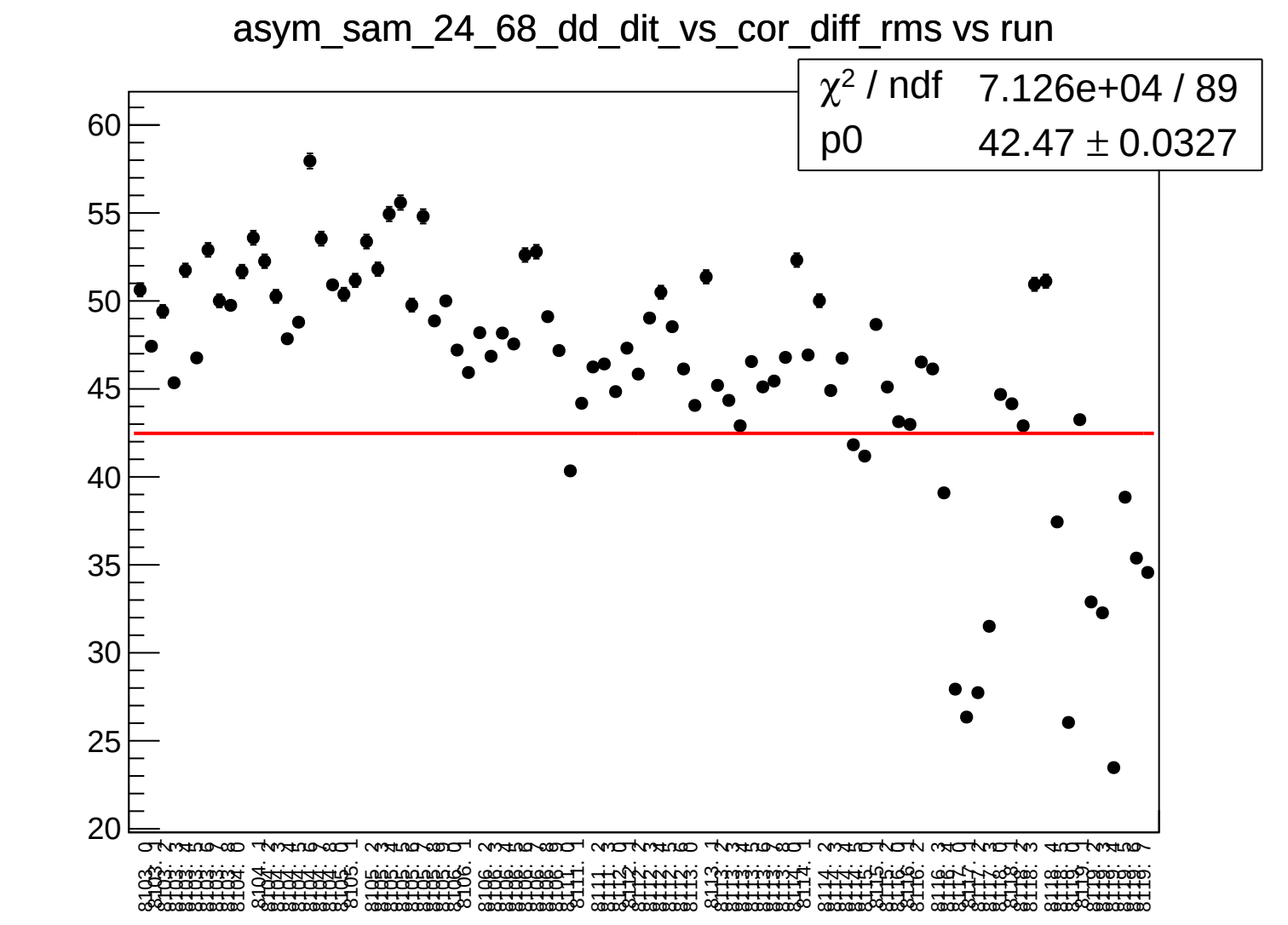

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 98.54 / 89
p0 −2.418e−13 ± 1.965e−13
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 90
Mean 106.4
Std Dev 0
2
1
0
−1
−2
−3

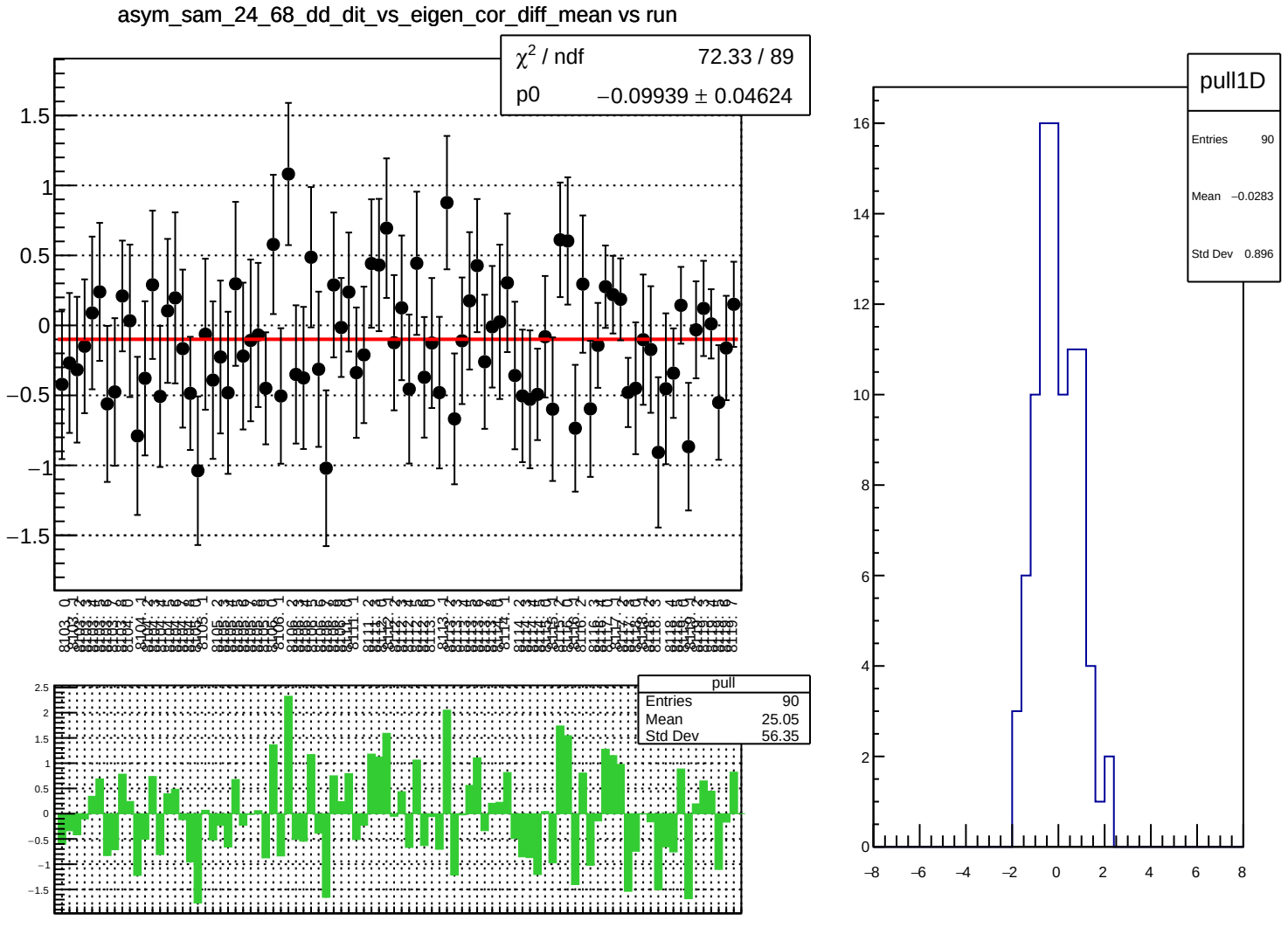

pull1D
Entries 90
Mean 0.01569
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

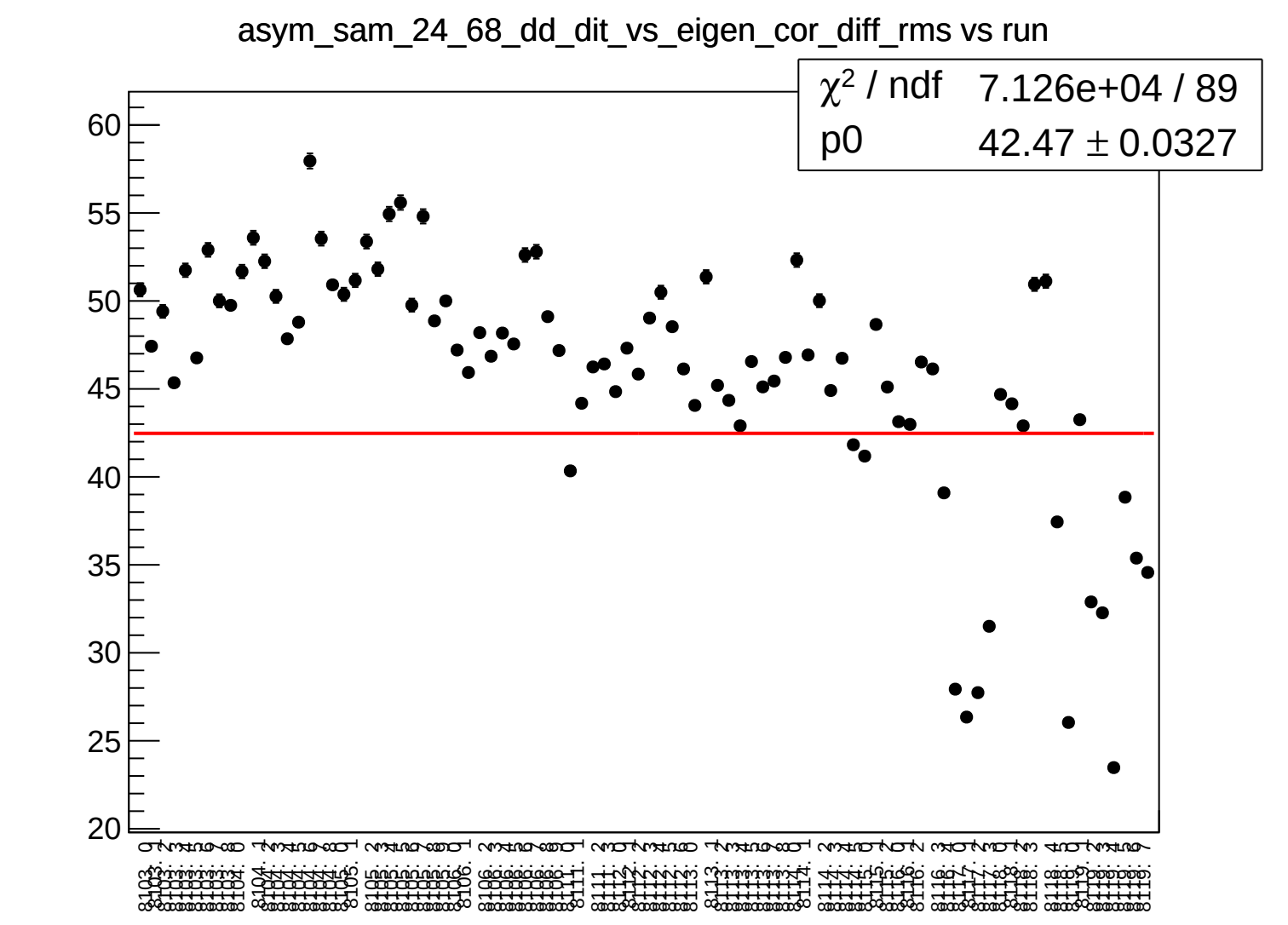

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.111e+06 / 89
p0 1.118e−10 ± 1.389e−13
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

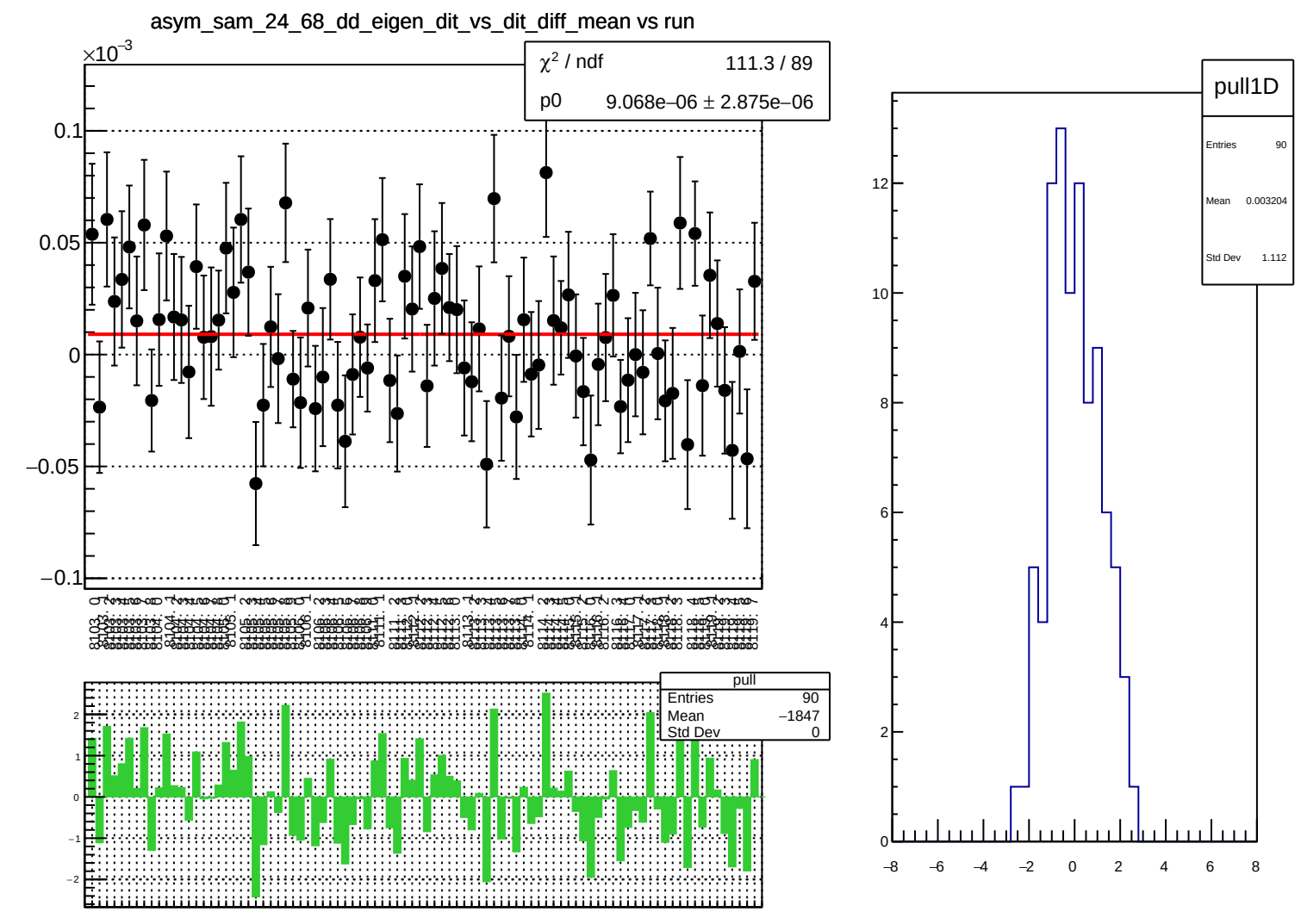

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.33 / 89
p0 −0.09939 ± 0.04624
pull
Entries 90
Mean 25.05
Std Dev 56.35

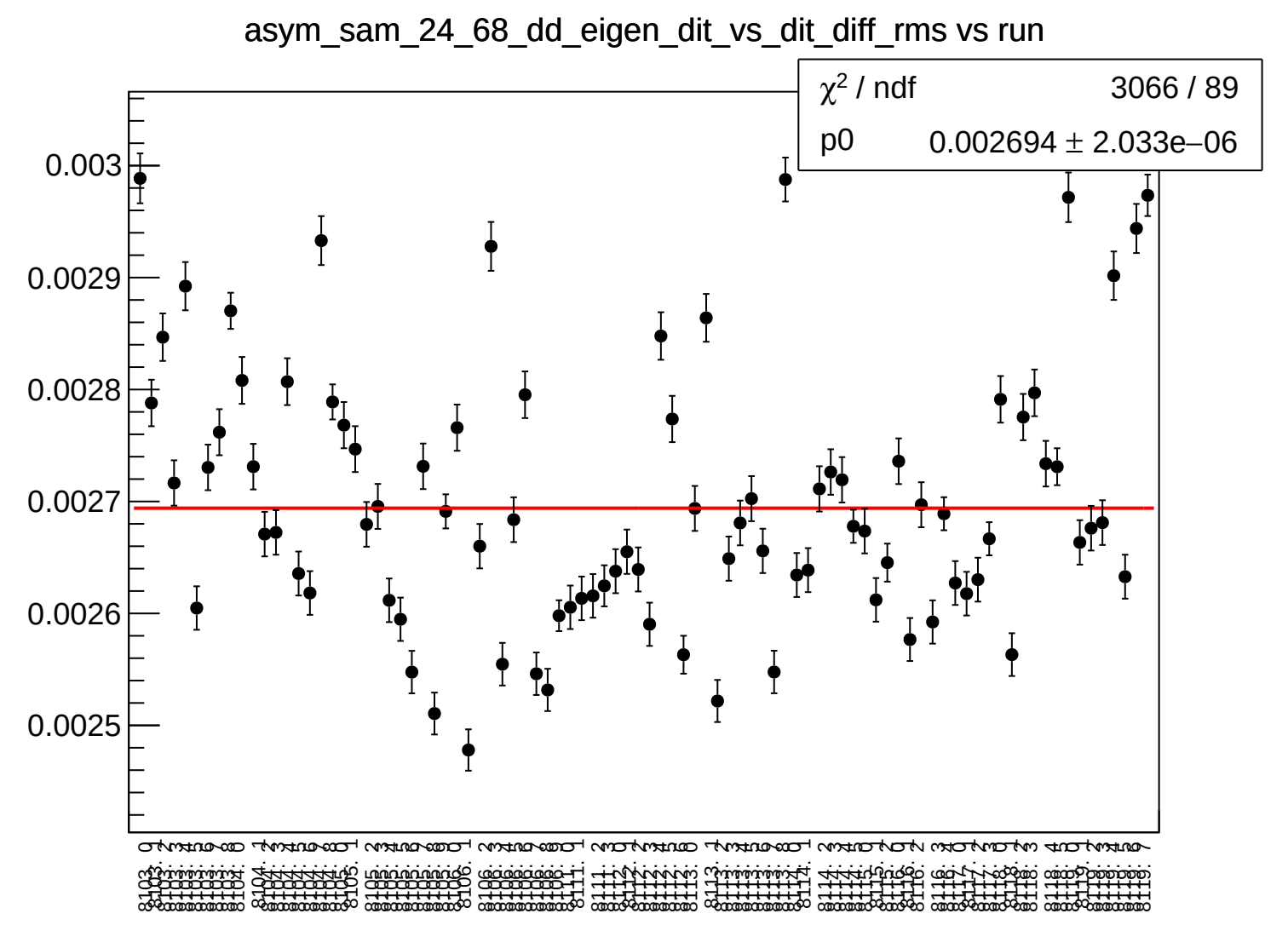

pull1D
Entries 90
Mean −0.0283
Std Dev 0.896

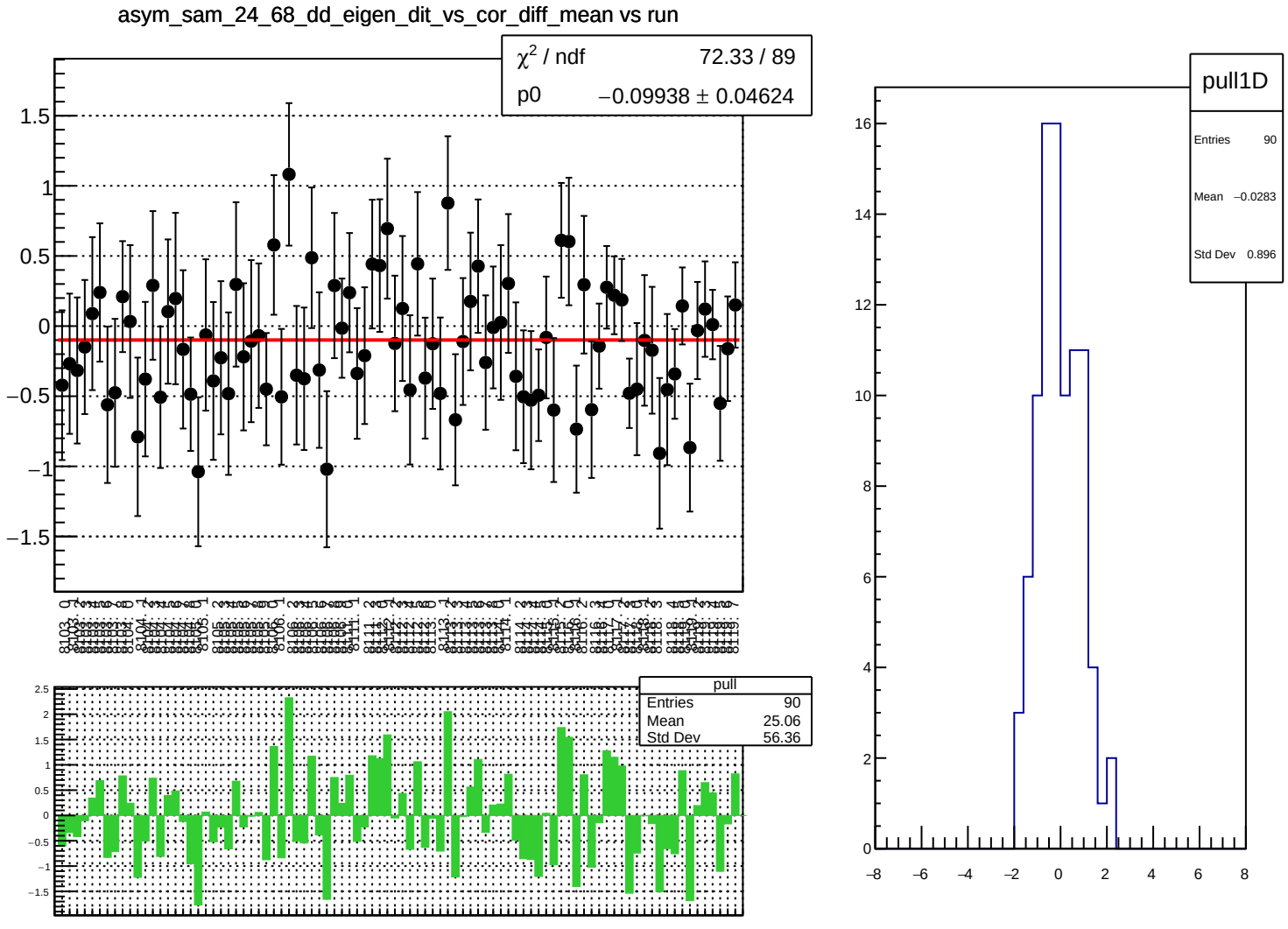

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.126e+04 / 89
p0 42.47 ± 0.0327
60
55
50
45
40
35
30
25
20

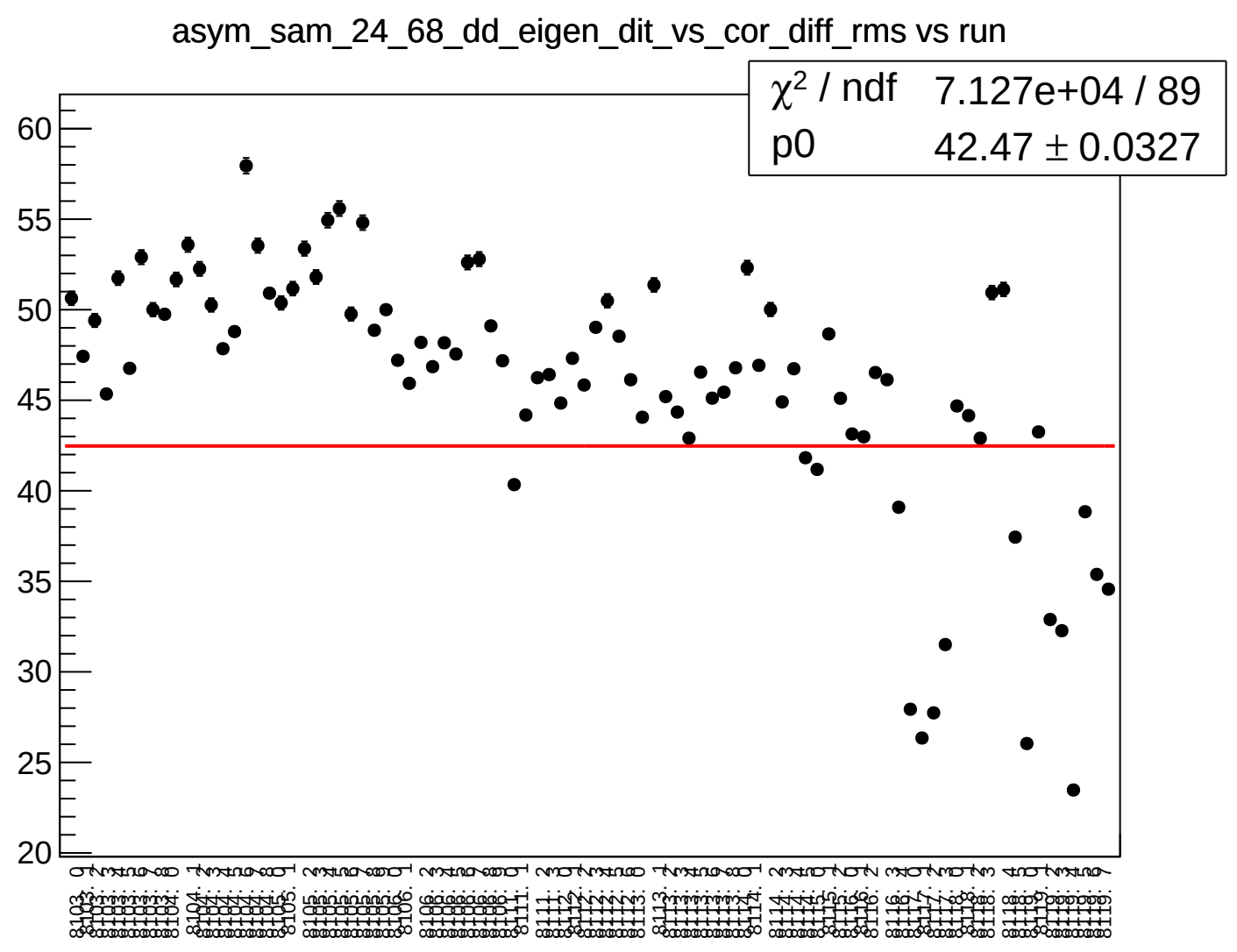

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.33 / 89
p0 −0.09939 ± 0.04624
pull
Entries 90
Mean 25.05
Std Dev 56.35
pull1D
Entries 90
Mean −0.0283
Std Dev 0.896

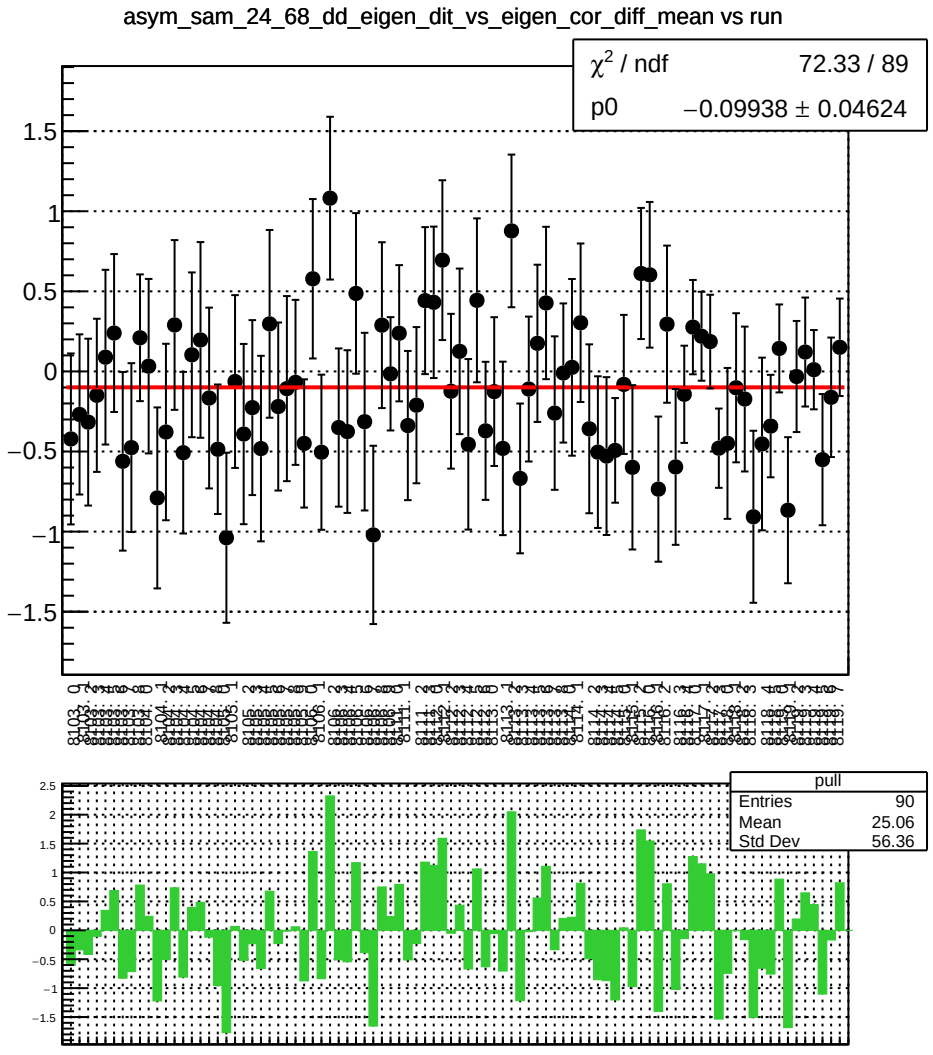

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.126e+04 / 89
p0 42.47 ± 0.0327
60
55
50
45
40
35
30
25
20

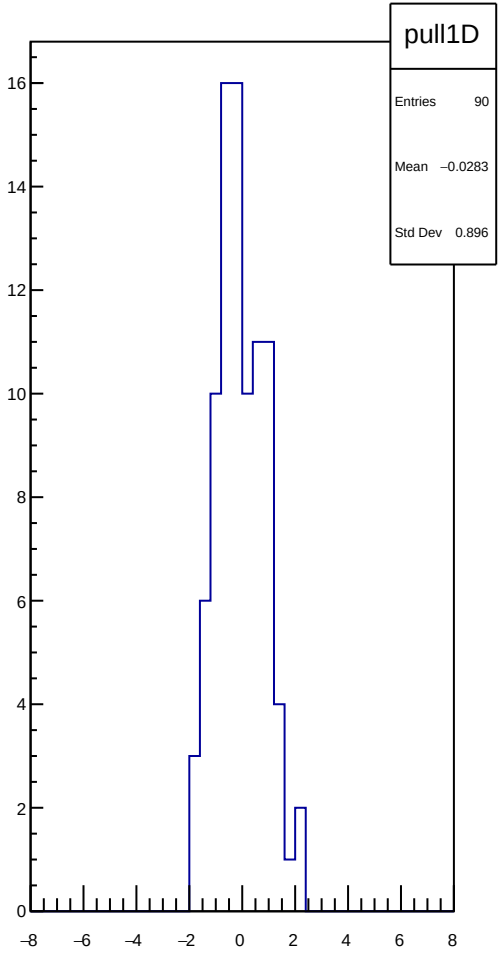

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.3 / 89
p0 9.068e−06 ± 2.875e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −1847
Std Dev 0
pull1D
Entries 90
Mean 0.003204
Std Dev 1.112

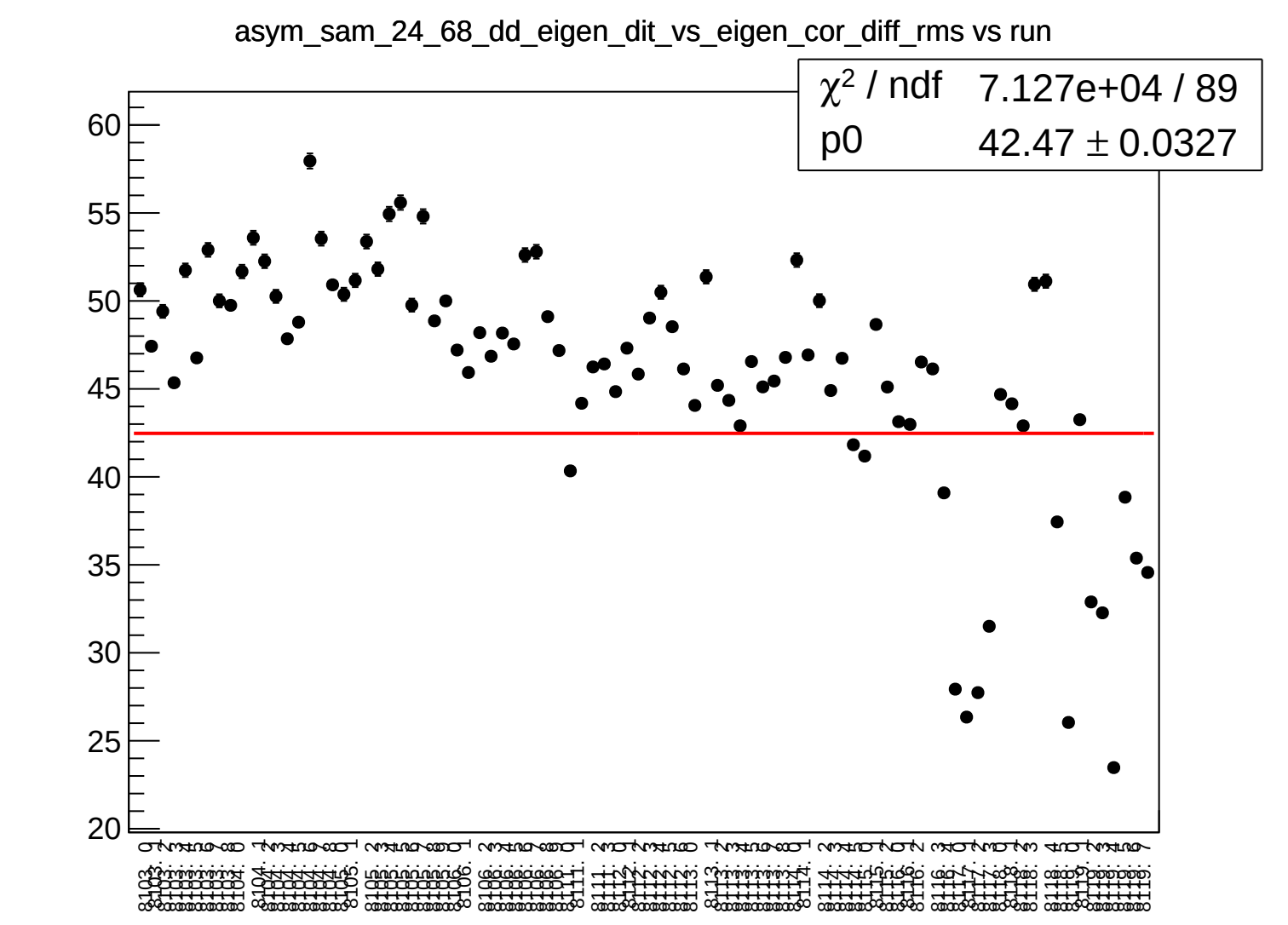

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3066 / 89
p0 0.002694 ± 2.033e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

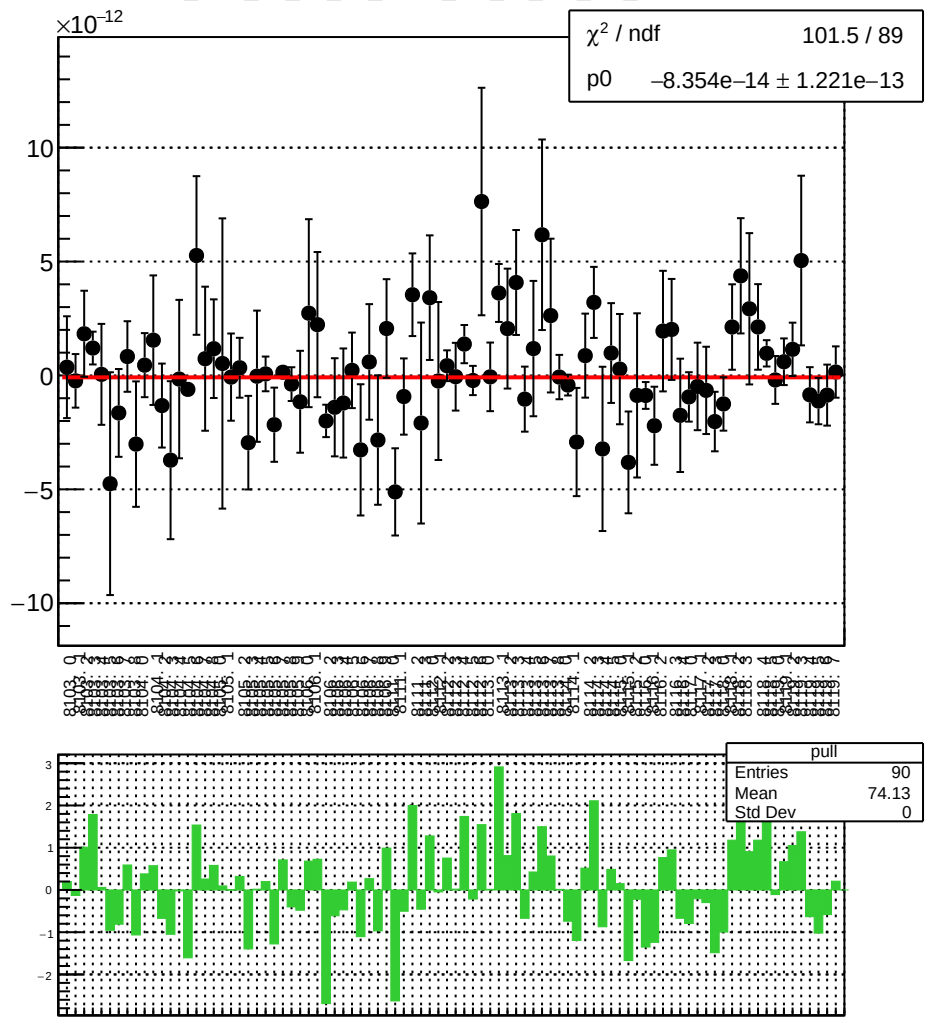

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.33 / 89
p0 −0.09938 ± 0.04624
pull
Entries 90
Mean 25.06
Std Dev 56.36
pull1D
Entries 90
Mean −0.0283
Std Dev 0.896

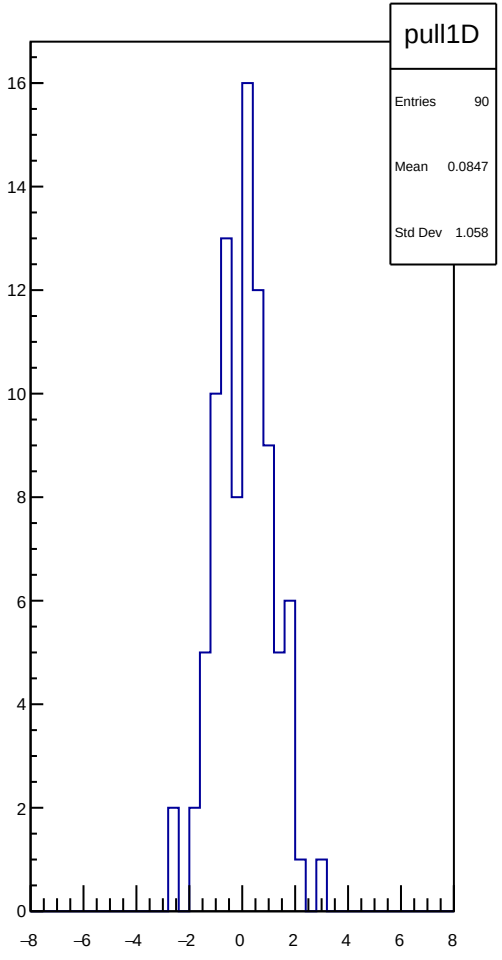

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.127e+04 / 89
p0 42.47 ± 0.0327
60
55
50
45
40
35
30
25
20

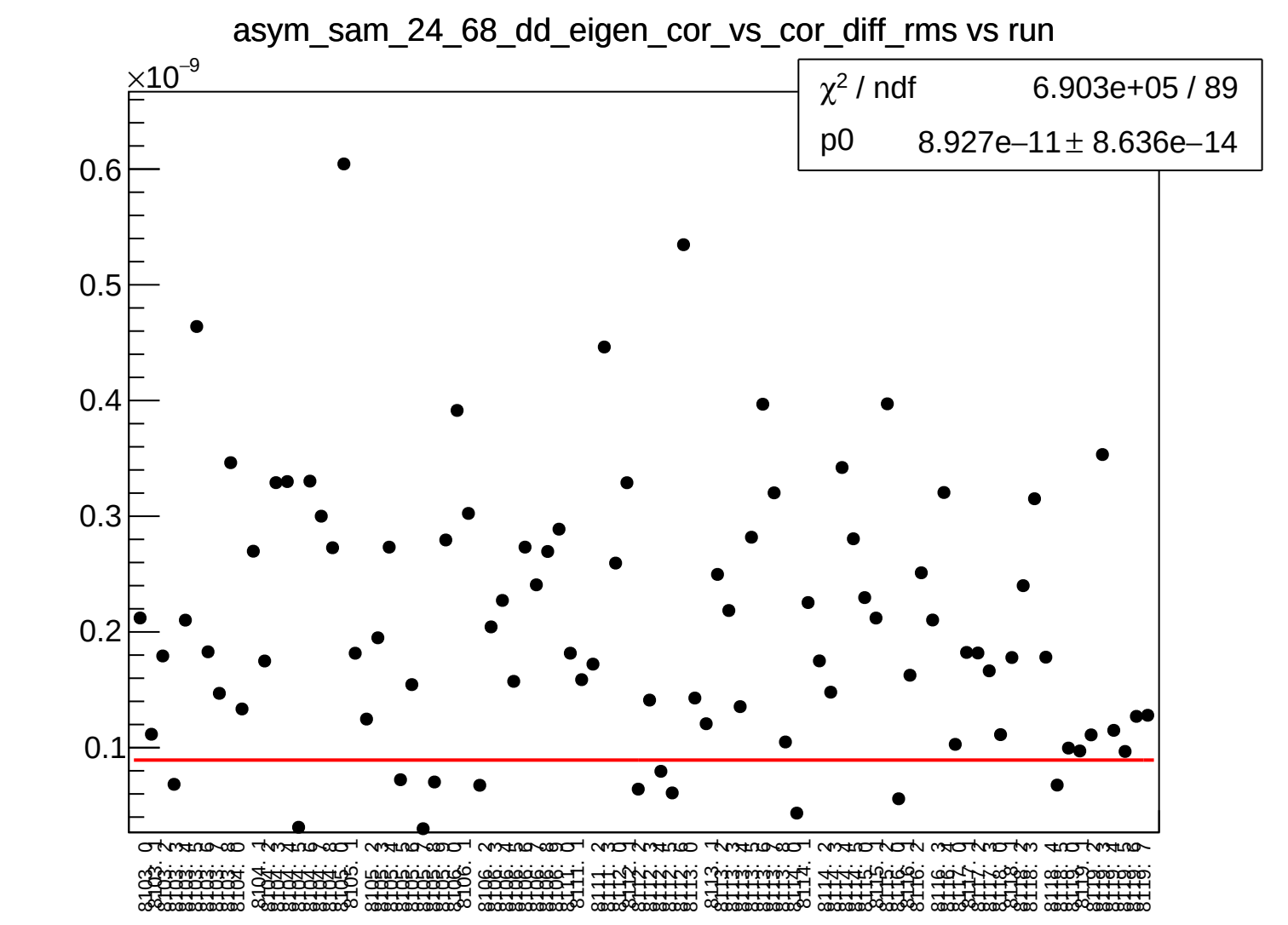

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.33 / 89
p0 −0.09938 ± 0.04624
pull
Entries 90
Mean 25.06
Std Dev 56.36

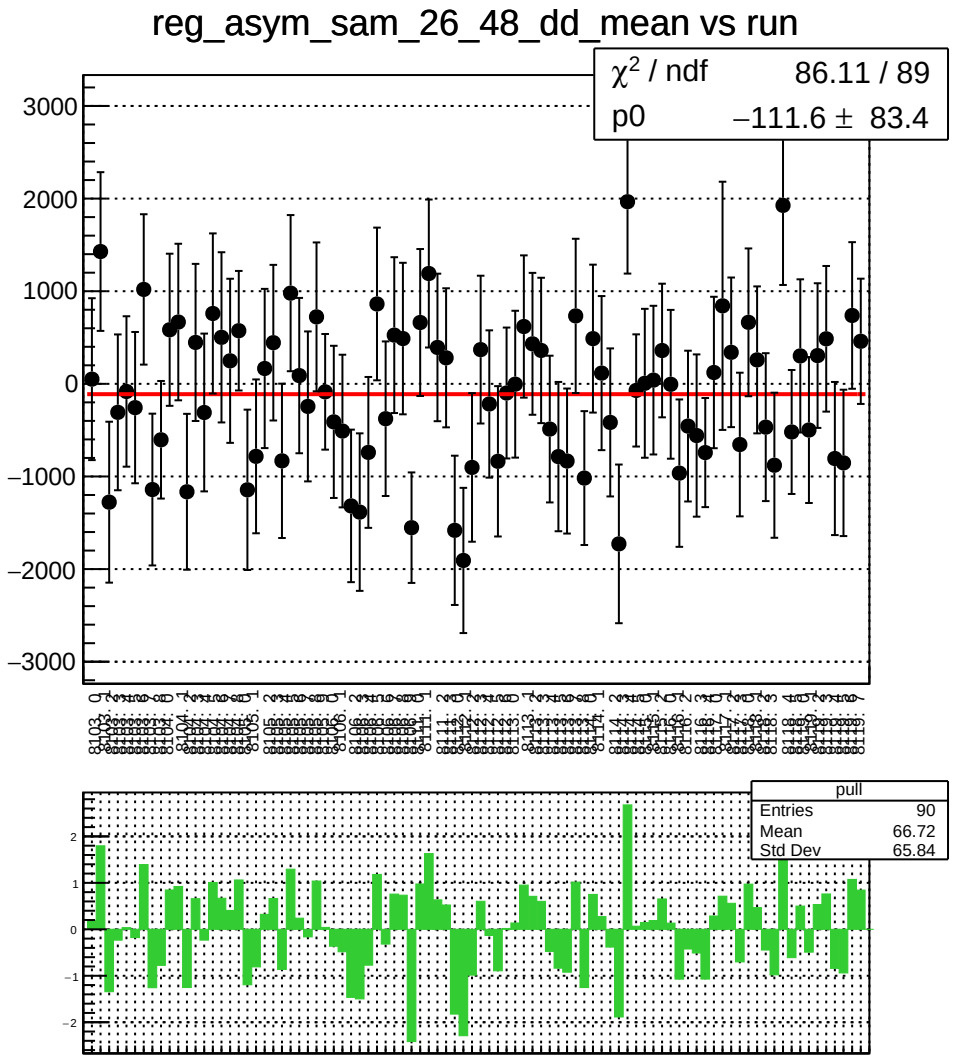

pull1D
Entries 90
Mean −0.0283
Std Dev 0.896

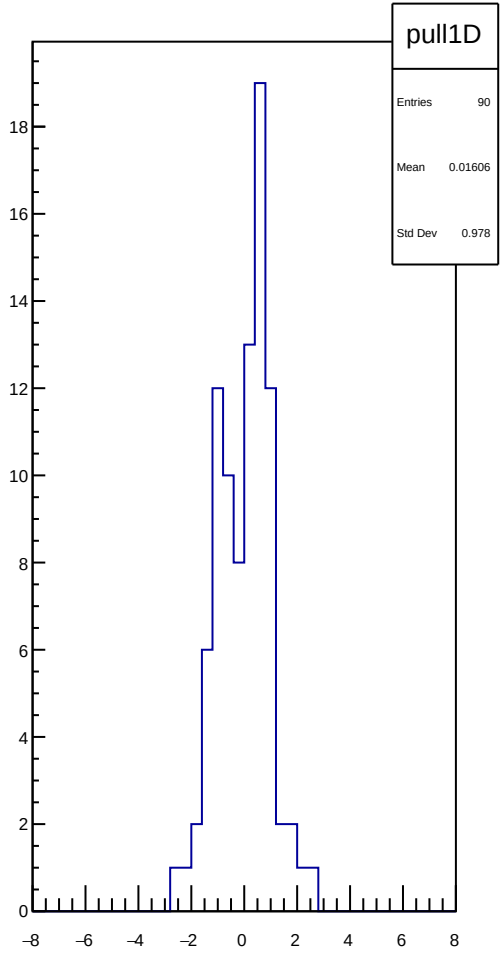

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.127e+04 / 89
p0 42.47 ± 0.0327
60
55
50
45
40
35
30
25
20

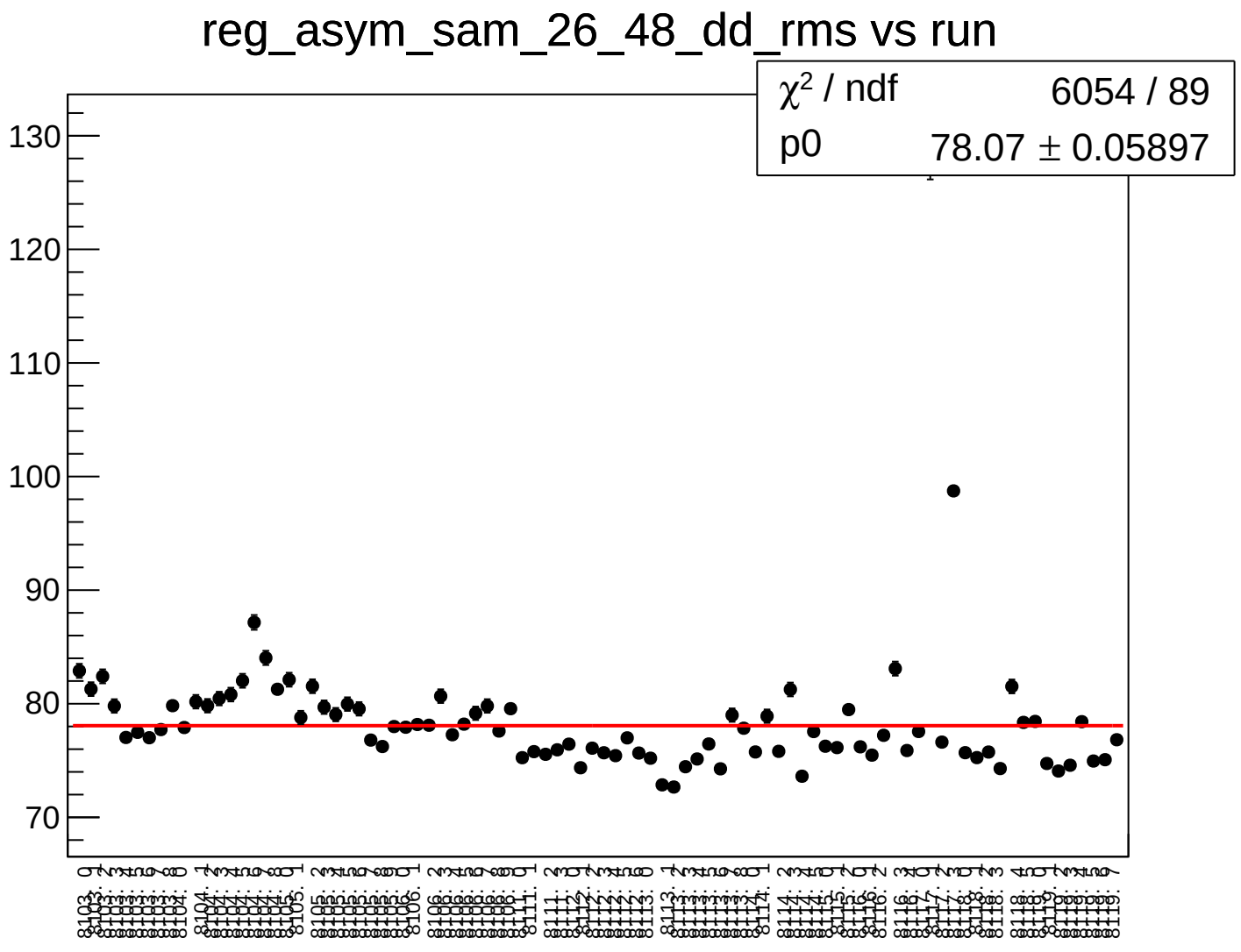

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.5 / 89
p0 −8.354e−14 ± 1.221e−13
pull
Entries 90
Mean 74.13
Std Dev 0

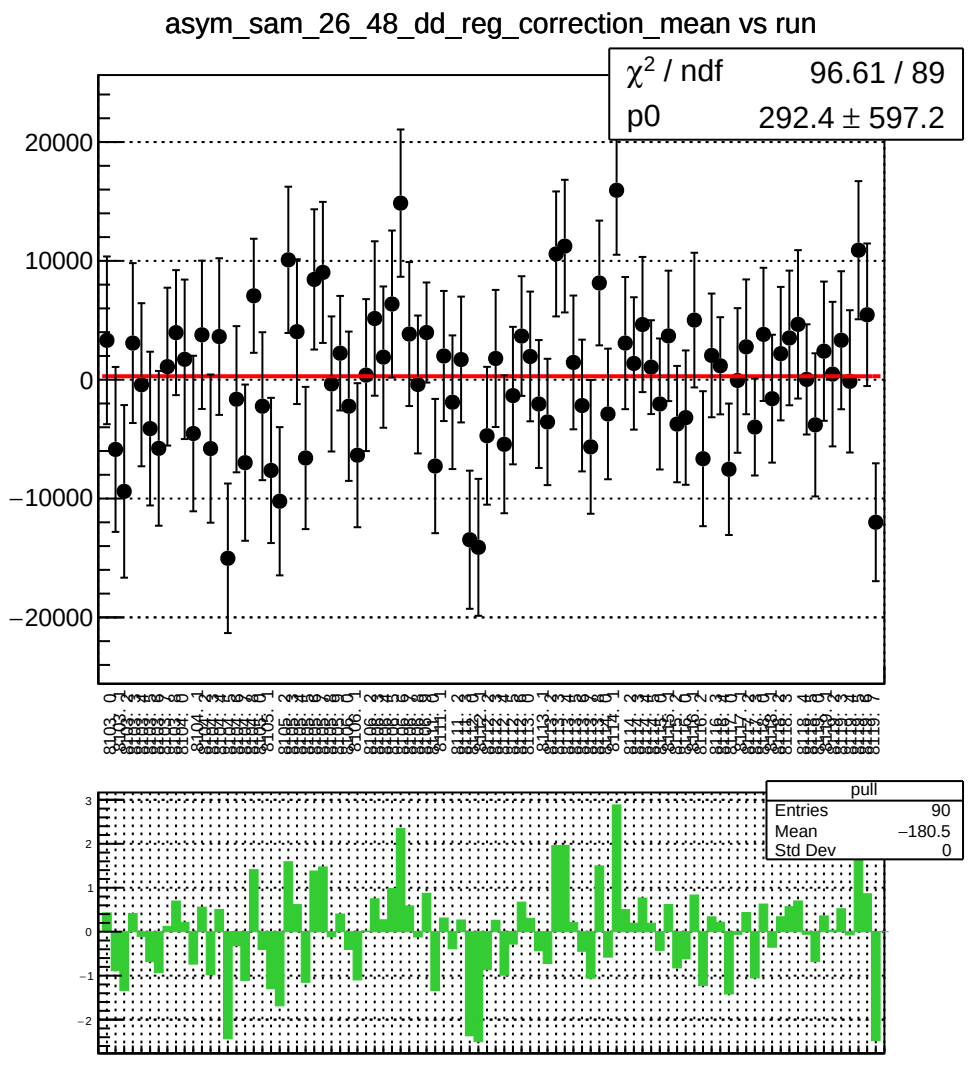

pull1D
Entries 90
Mean 0.0847
Std Dev 1.058

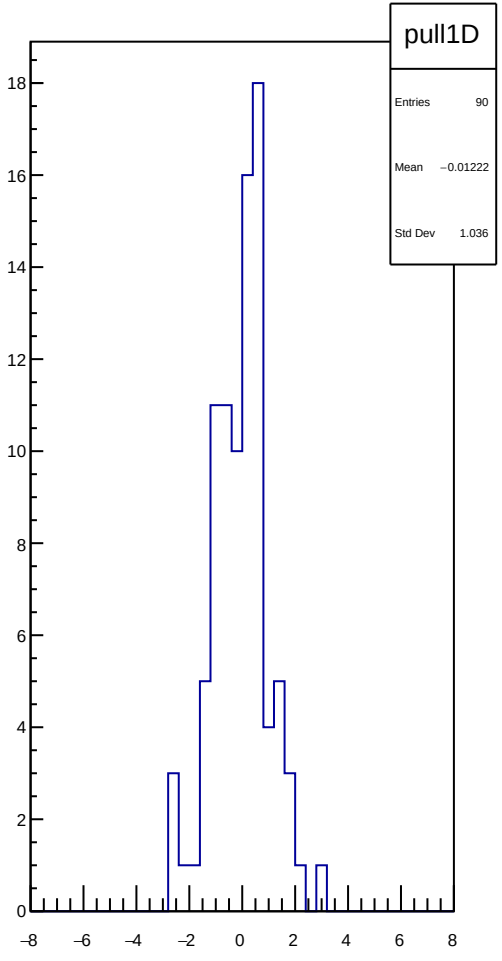

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.903e+05 / 89
p0 8.927e−11 ± 8.636e−14
0.6
0.5
0.4
0.3
0.2
0.1

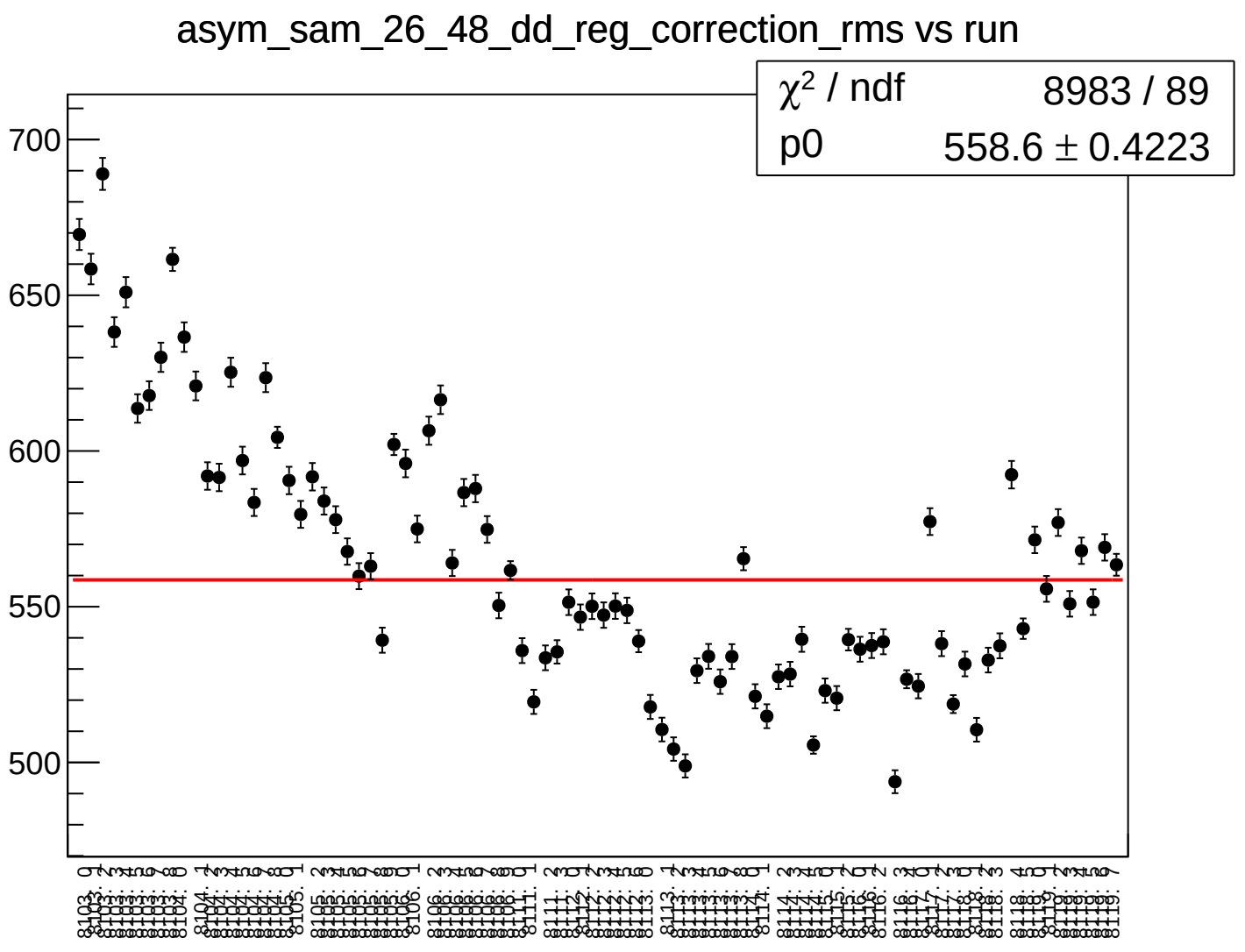

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 86.11 / 89
p0 −111.6 ± 83.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 66.72
Std Dev 65.84
2
1
0
−1
−2

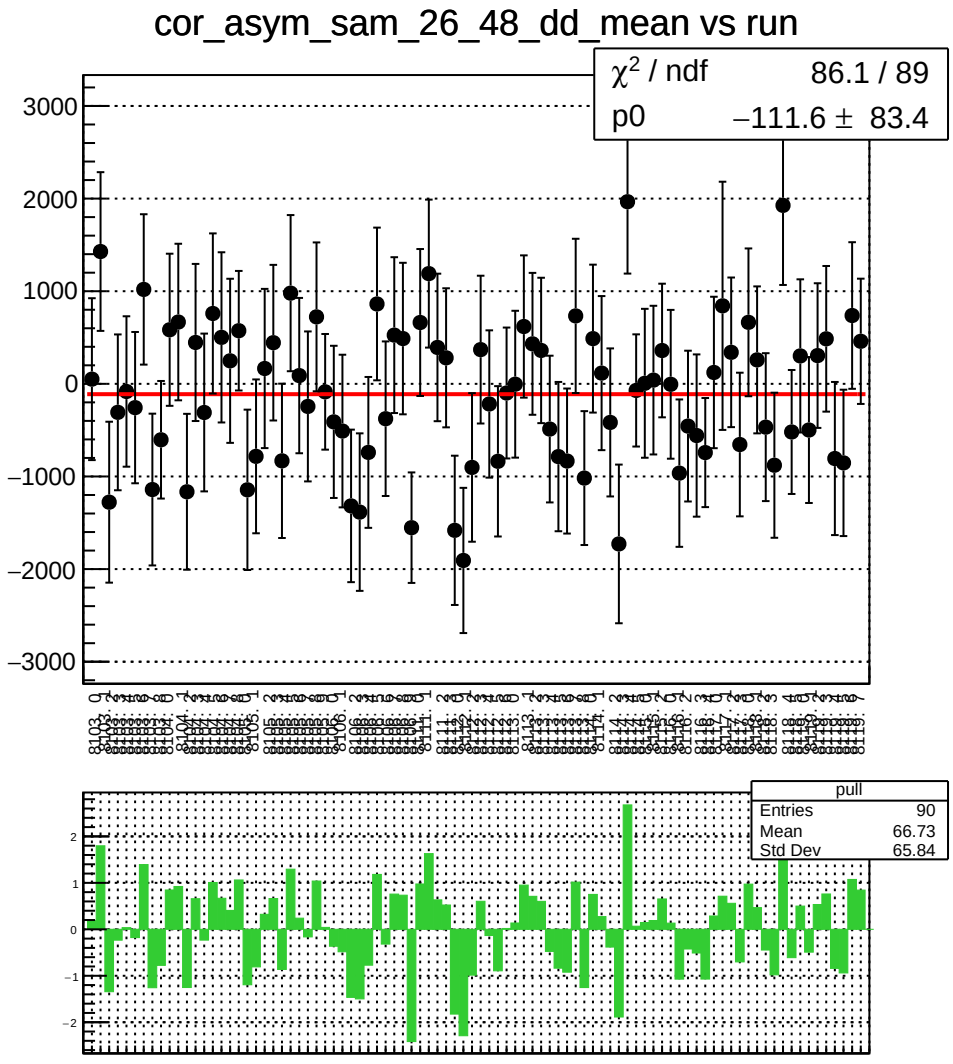

pull1D
Entries 90
Mean 0.01606
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

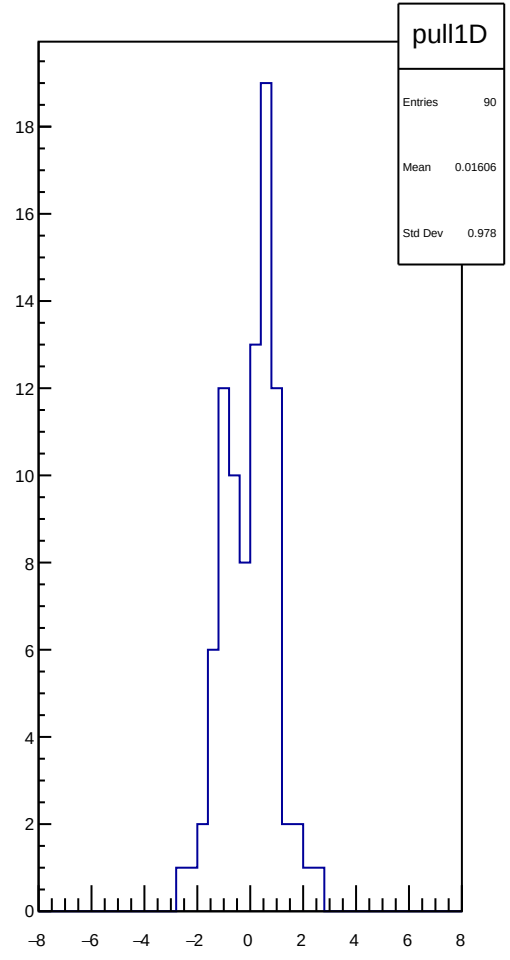

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 6054 / 89
p0 78.07 ± 0.05897
130
120
110
100
90
80
70

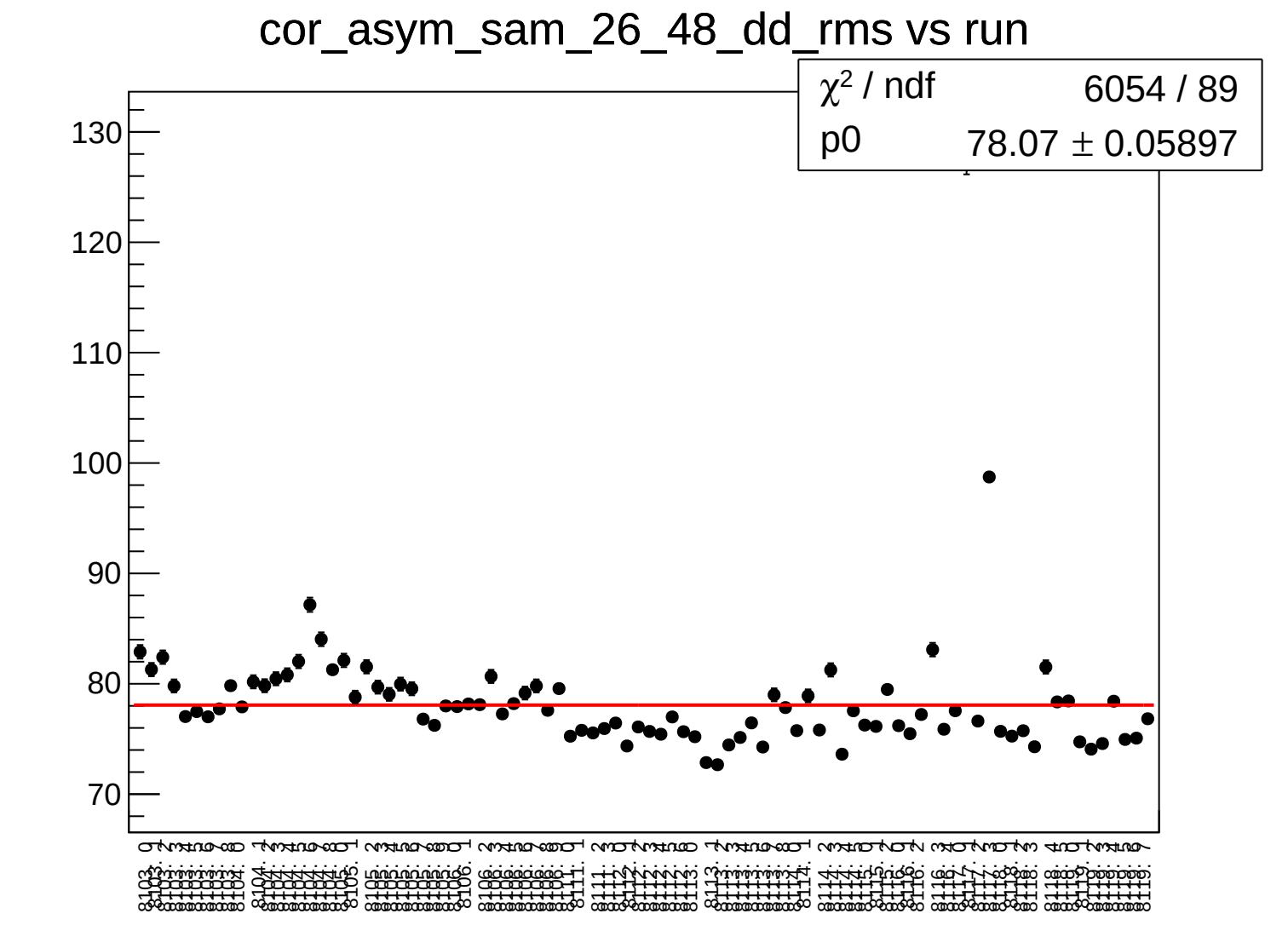

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 96.61 / 89
p0 292.4 ± 597.2
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −180.5
Std Dev 0
3
2
1
0
−1
−2

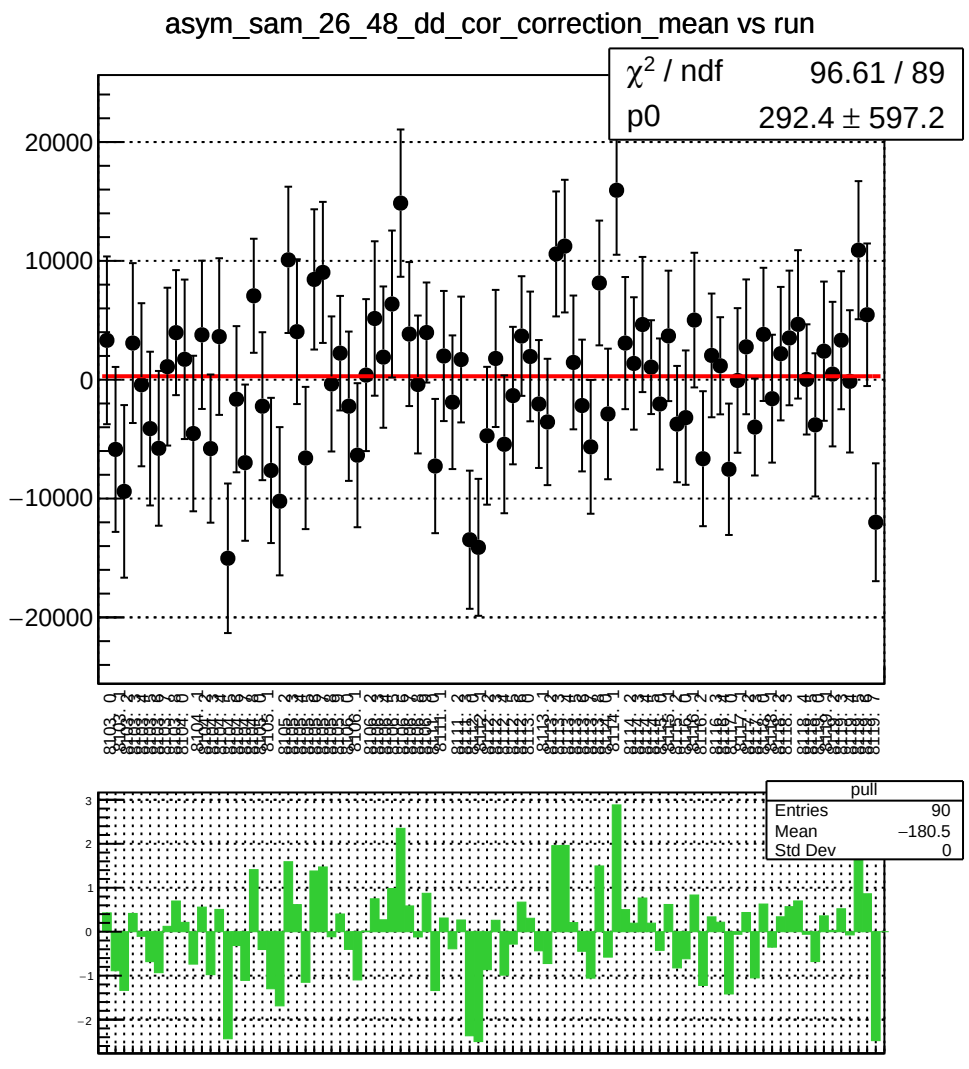

pull1D
Entries 90
Mean −0.01222
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

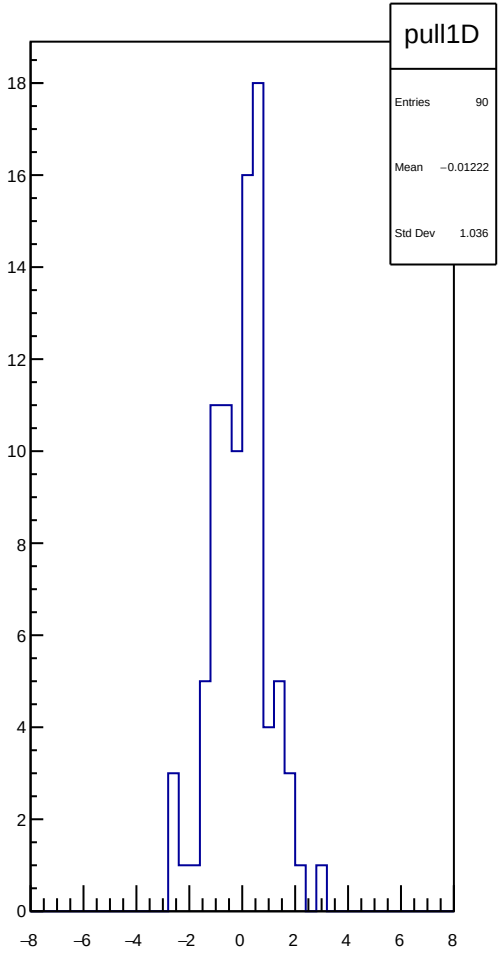

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 8983 / 89
p0 558.6 ± 0.4223
700
650
600
550
500

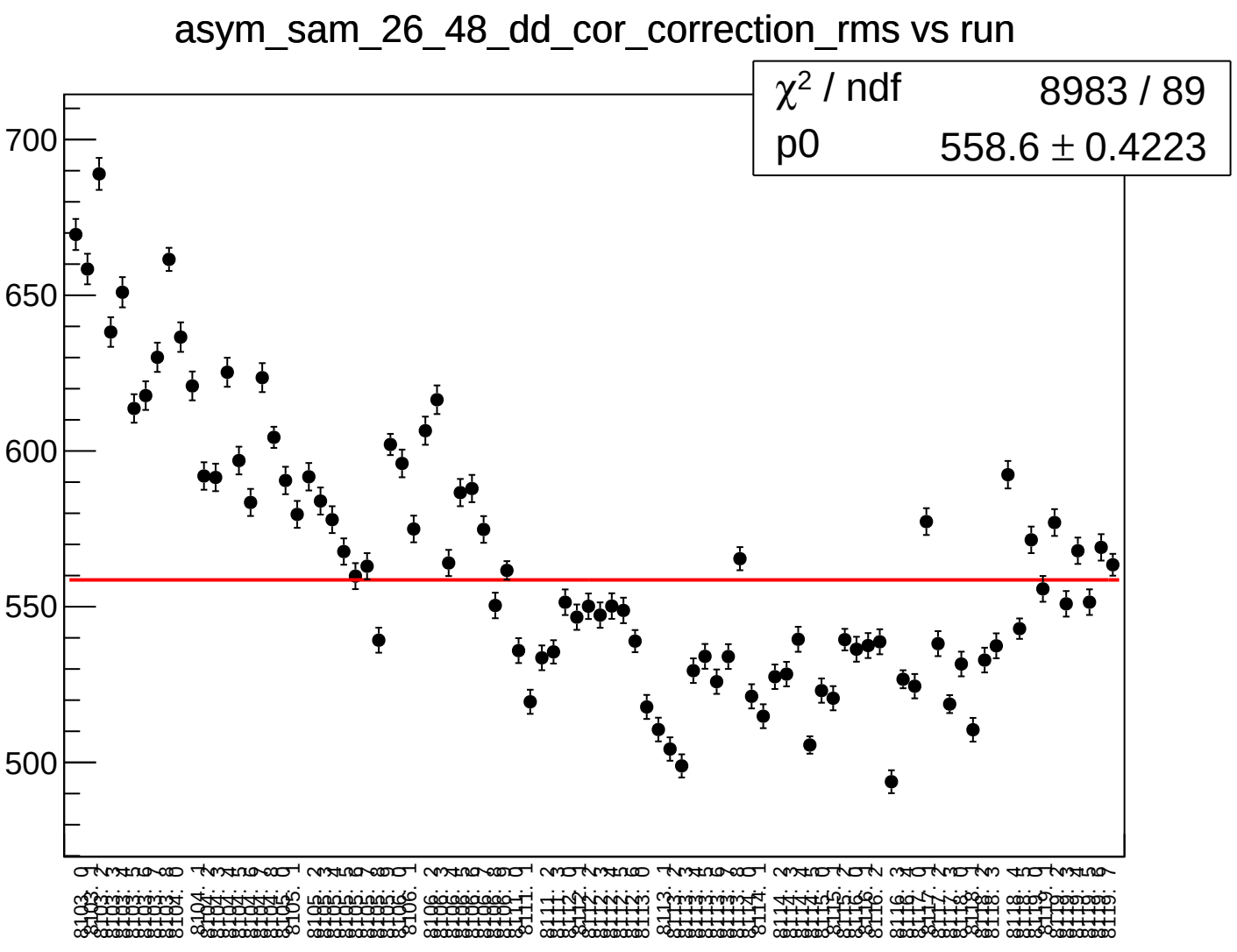

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 86.1 / 89
p0 −111.6 ± 83.4
pull
Entries 90
Mean 66.73
Std Dev 65.84

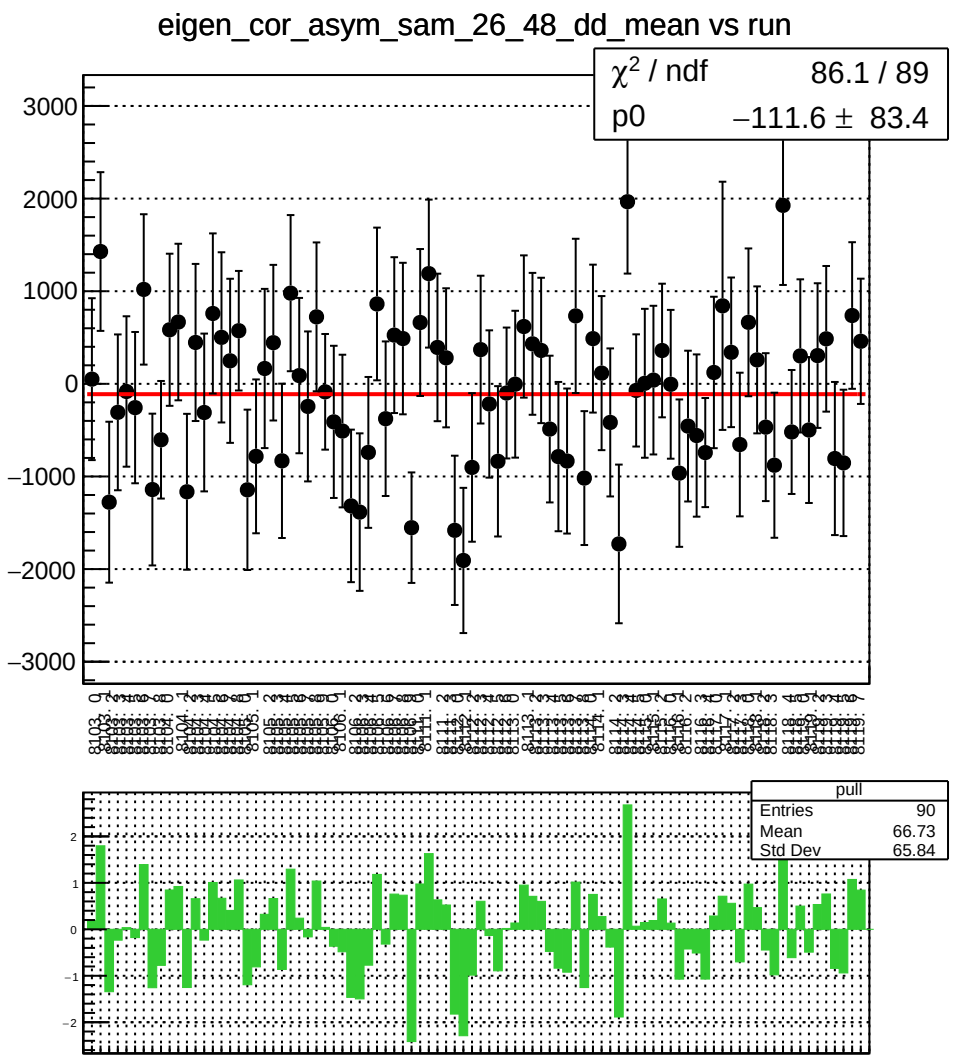

pull1D
Entries 90
Mean 0.01606
Std Dev 0.978

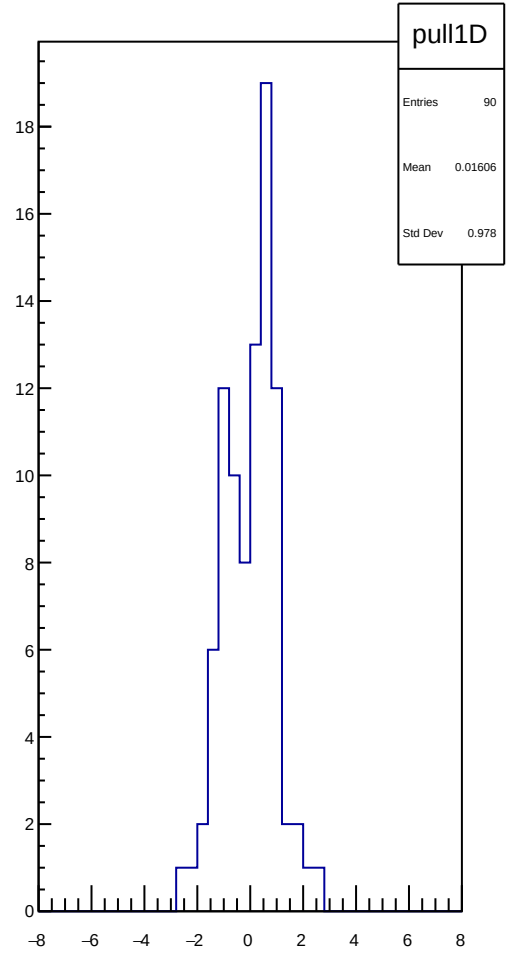

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 6054 / 89
p0 78.07 ± 0.05897
130
120
110
100
90
80
70

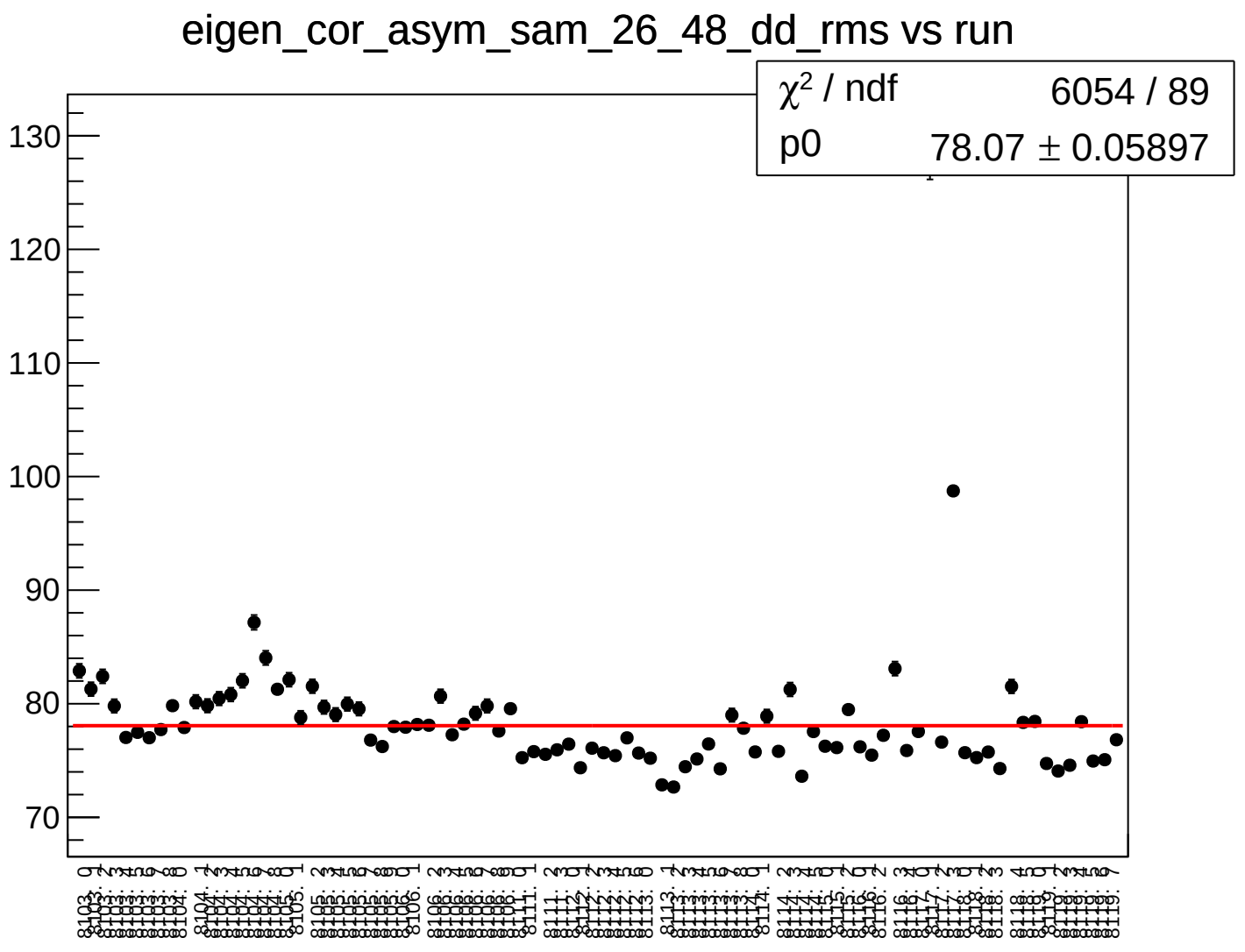

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 96.61 / 89
p0 292.4 ± 597.2
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −180.5
Std Dev 0
3
2
1
0
−1
−2

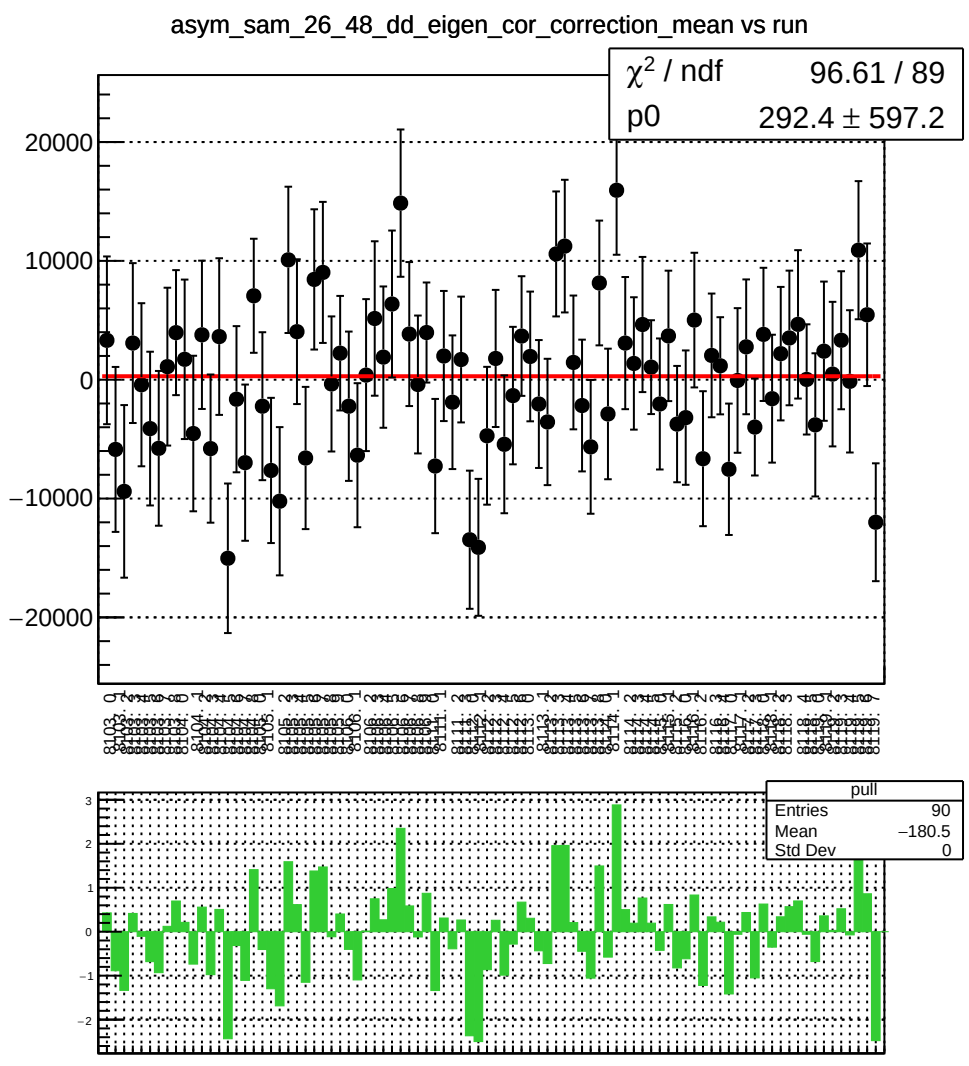

pull1D
Entries 90
Mean −0.01222
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

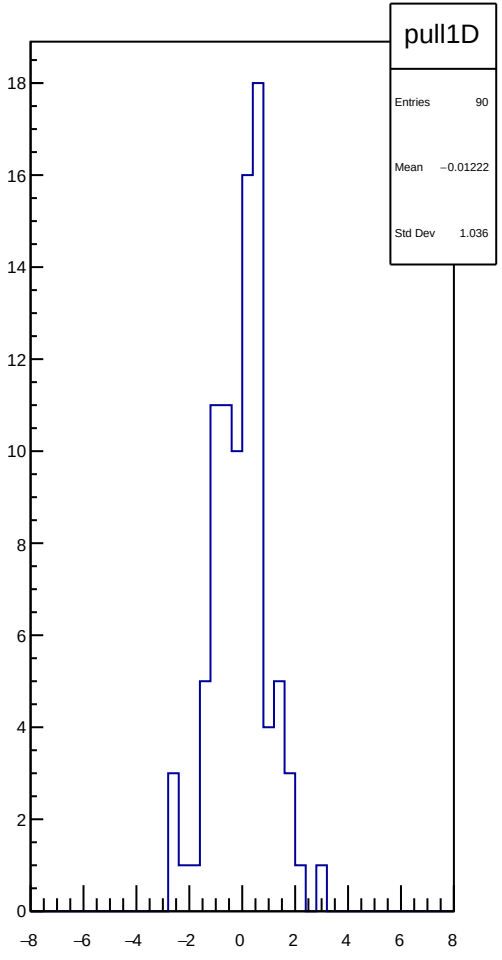

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 8983 / 89
p0 558.6 ± 0.4223
700
650
600
550
500


eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 86.1 / 89
p0 −111.6 ± 83.4
pull
Entries 90
Mean 66.73
Std Dev 65.84


pull1D
Entries 90
Mean 0.01606
Std Dev 0.978


eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 6054 / 89
p0 78.07 ± 0.05897
130
120
110
100
90
80
70


asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.61 / 89
p0 292.4 ± 597.2
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −180.5
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 90
Mean −0.01222
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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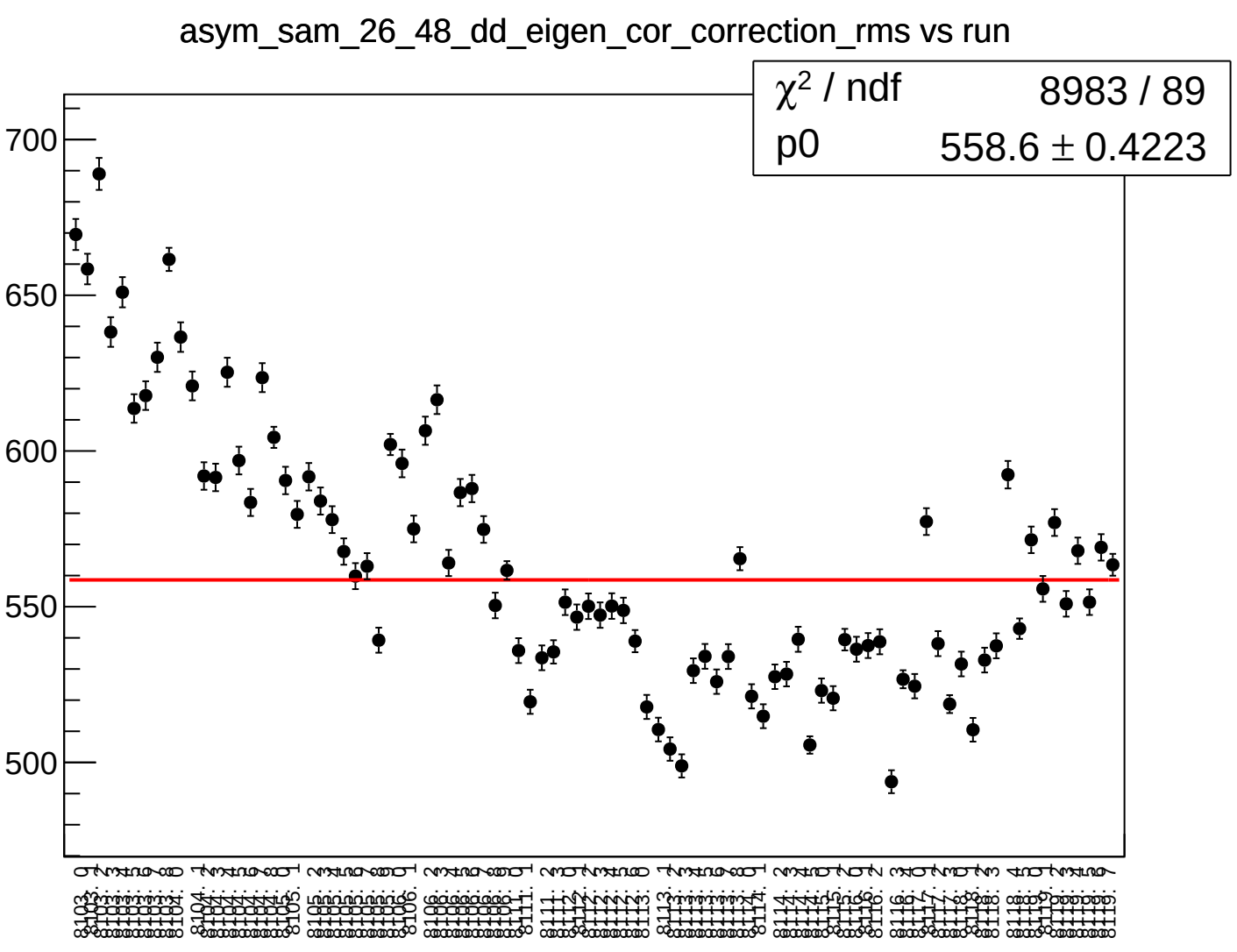
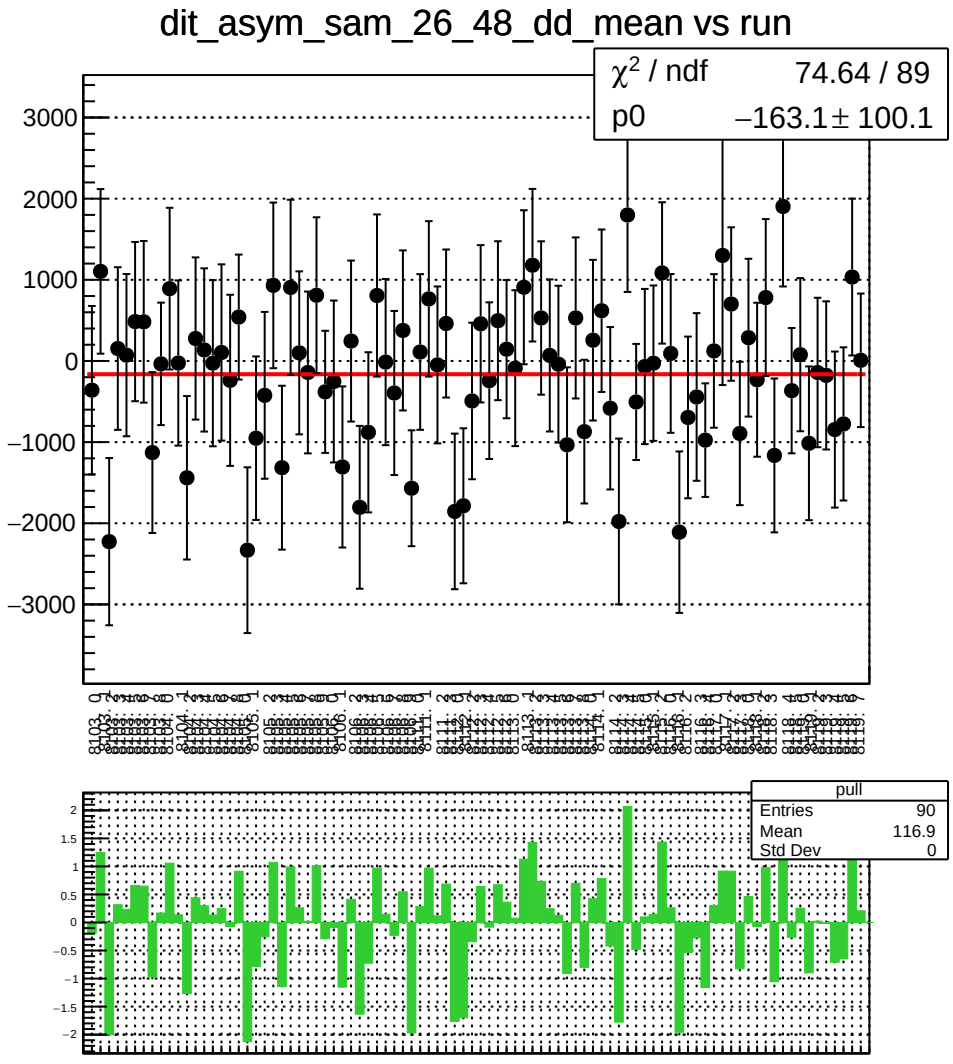
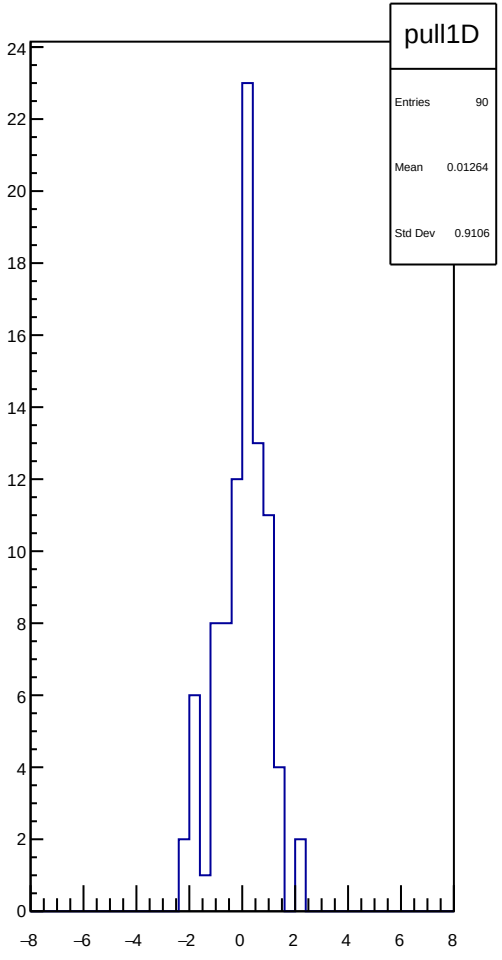
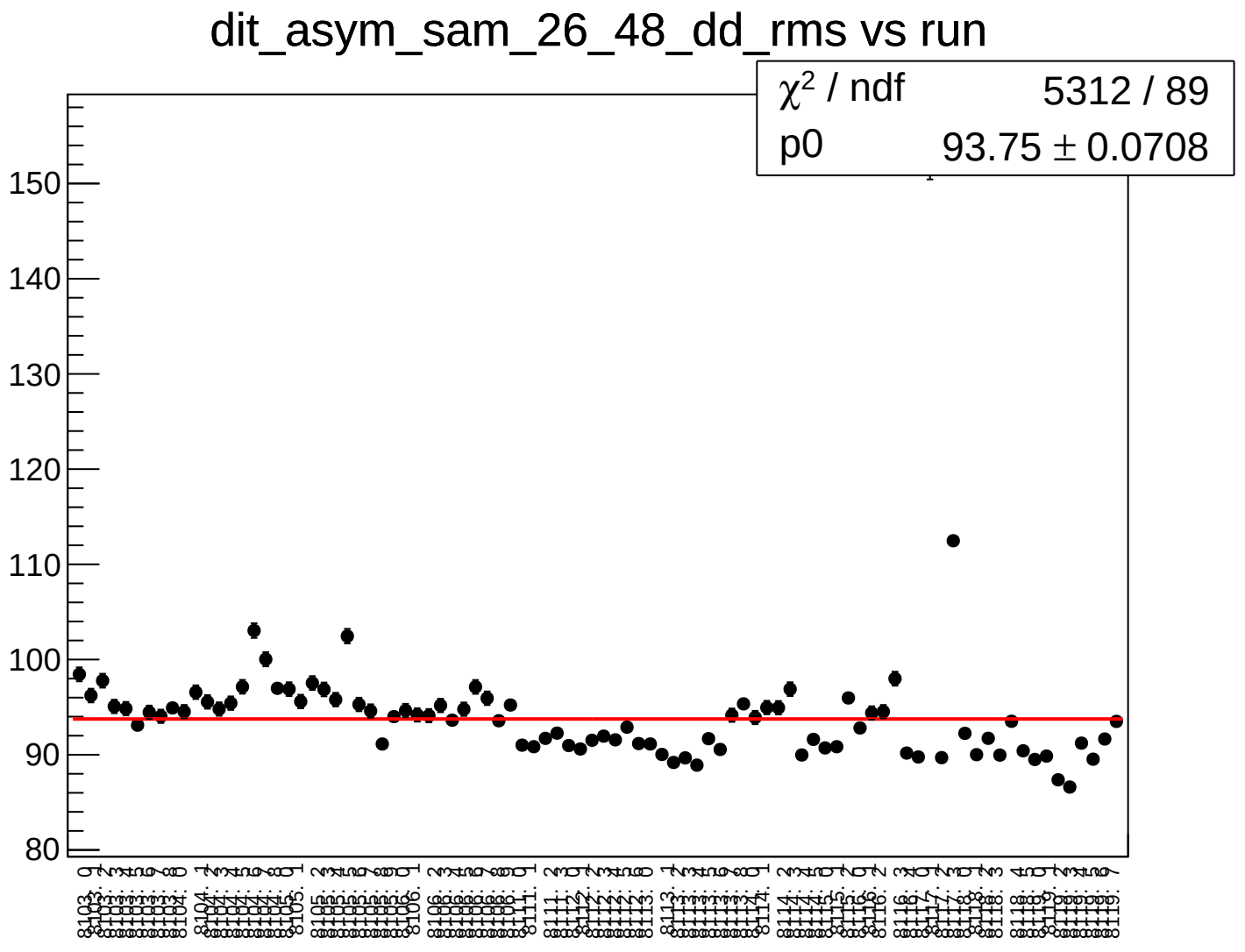
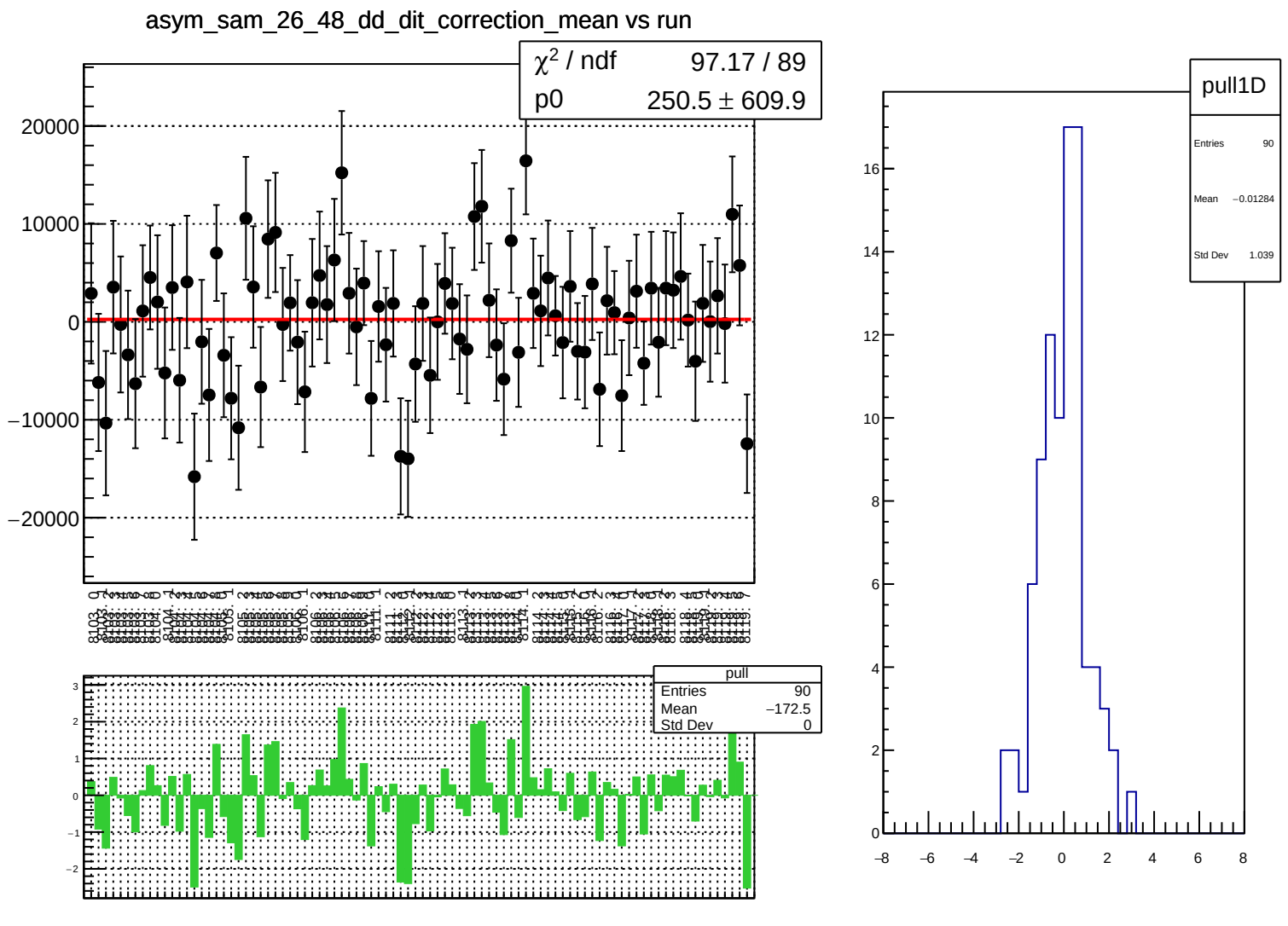
0
2
4
6
8

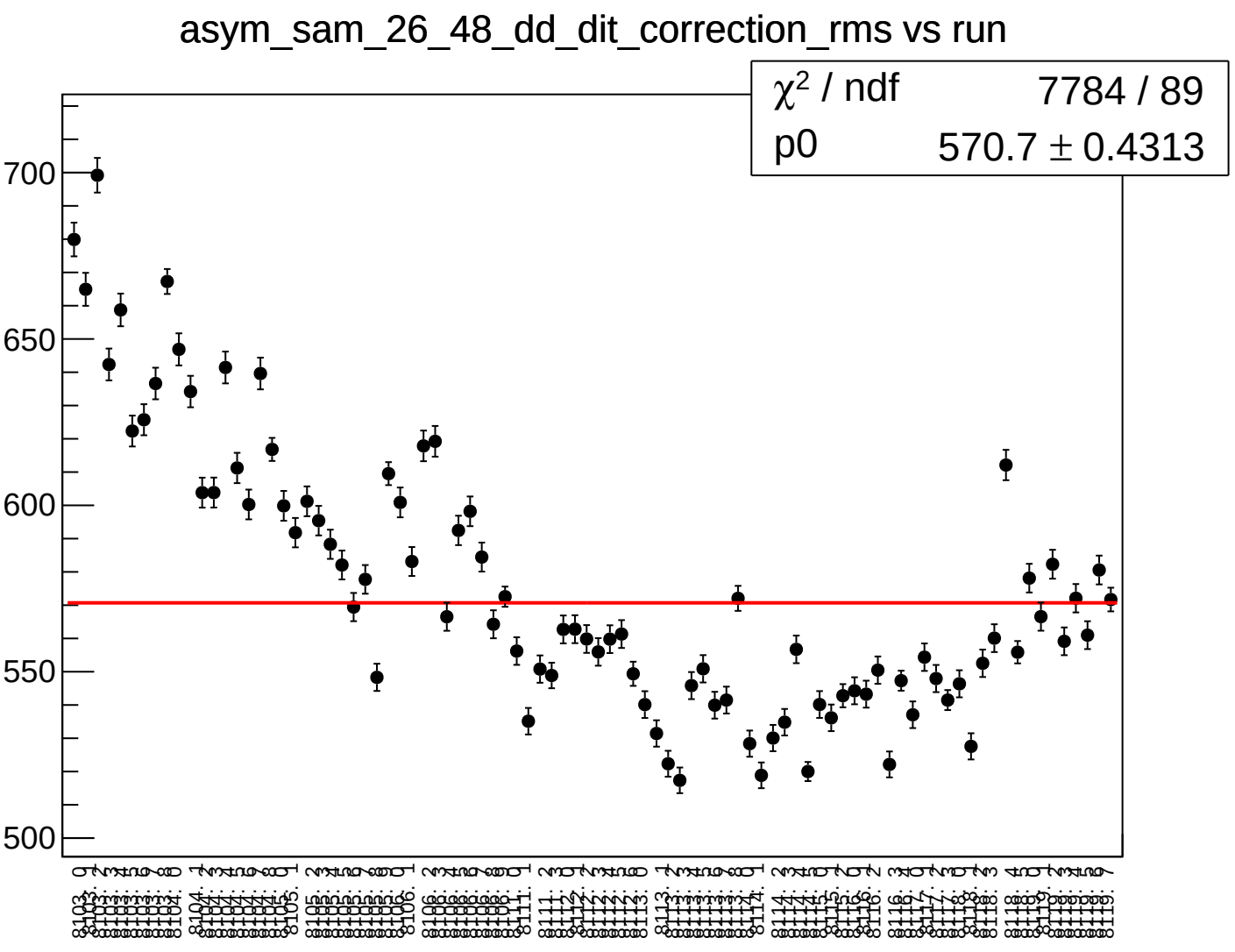

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8983 / 89
p0 558.6 ± 0.4223
700
650
600
550
500

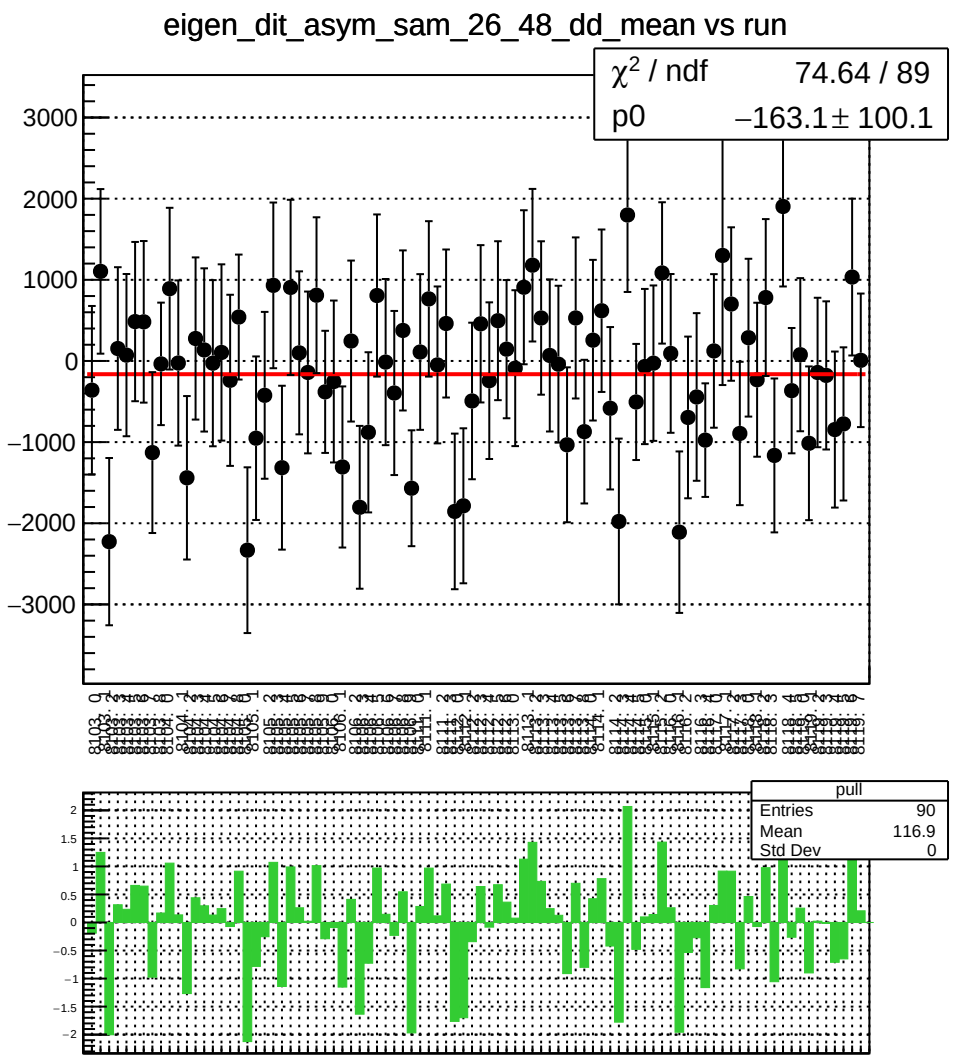

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 74.64 / 89
p0 −163.1 ± 100.1
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 116.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

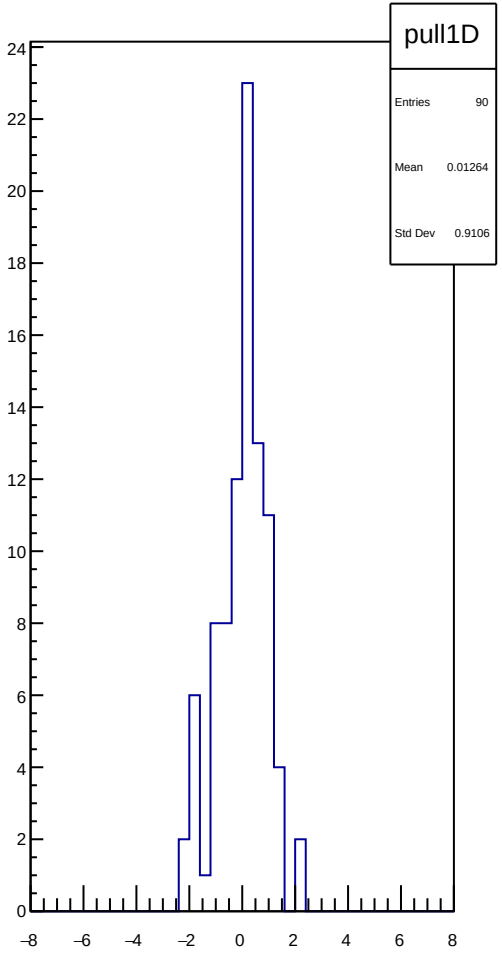

pull1D
Entries 90
Mean 0.01264
Std Dev 0.9106
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

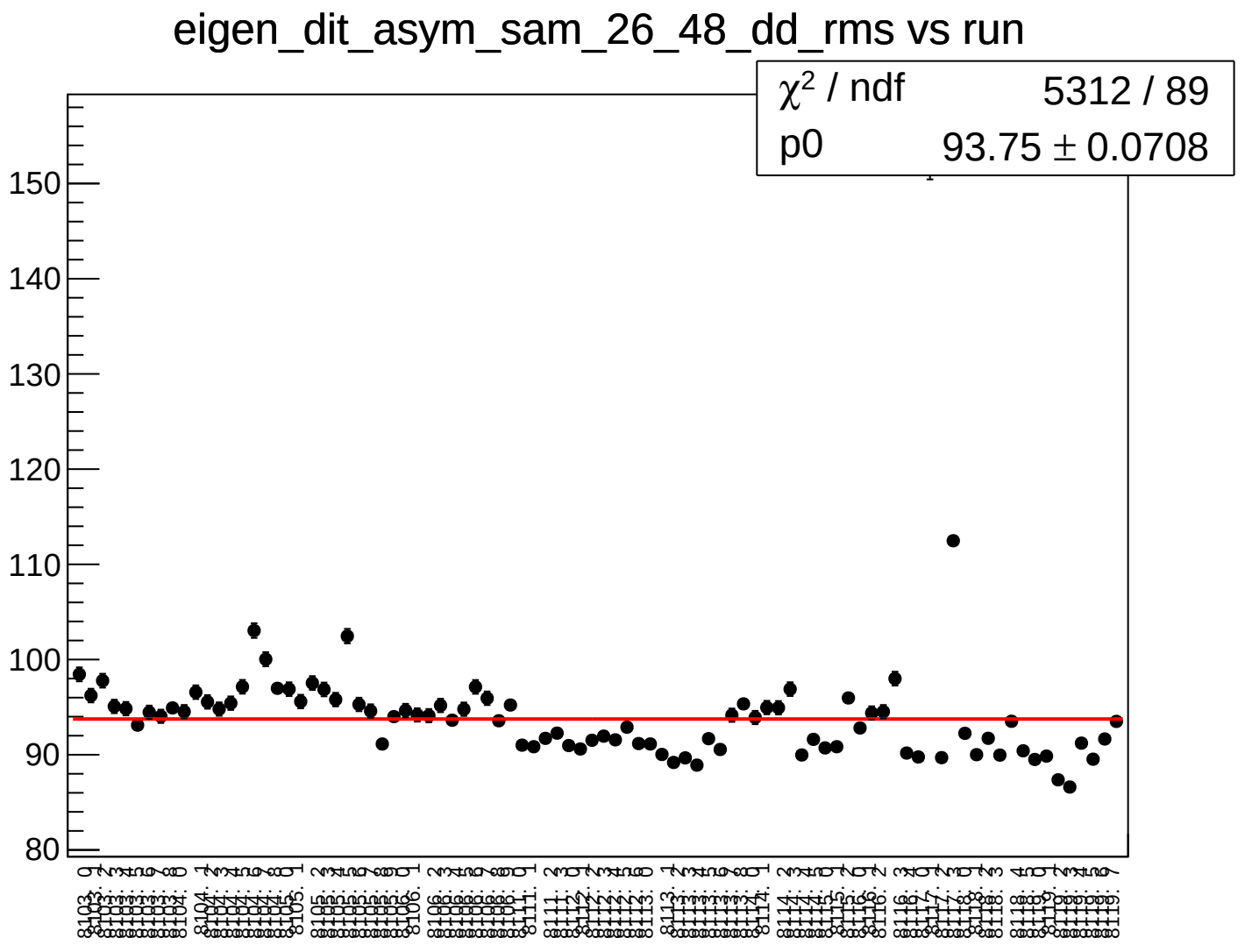

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 5312 / 89
p0 93.75 ± 0.0708
150
140
130
120
110
100
90
80

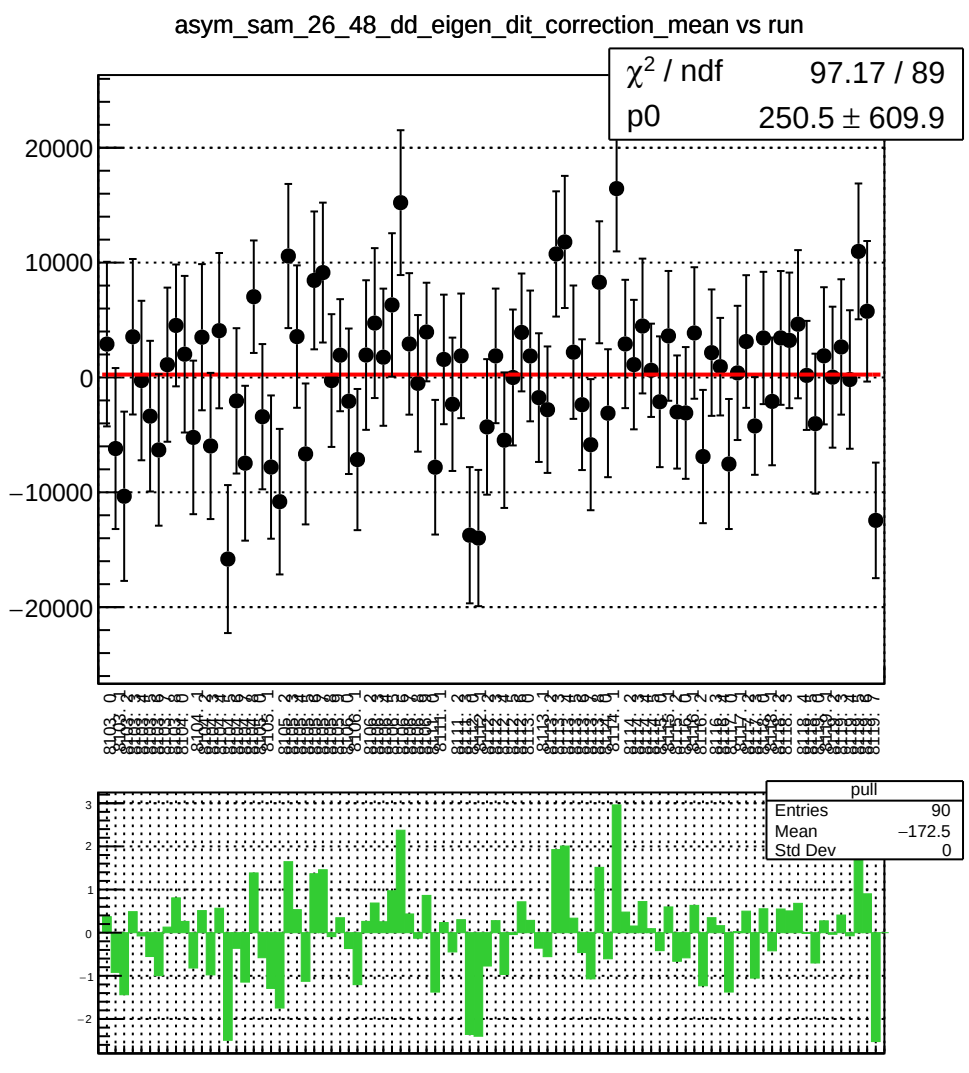

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 97.17 / 89
p0 250.5 ± 609.9
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −172.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.01284
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

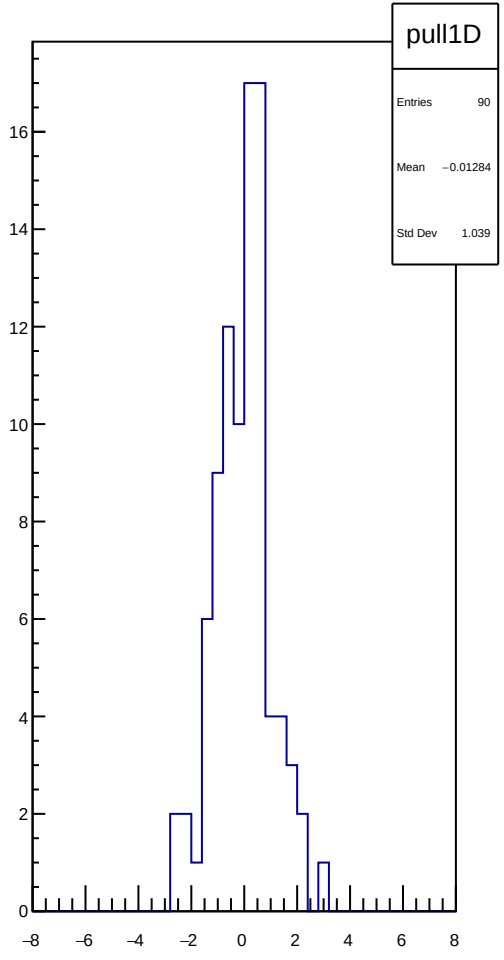

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 7784 / 89
p0 570.7 ± 0.4313
700
650
600
550
500

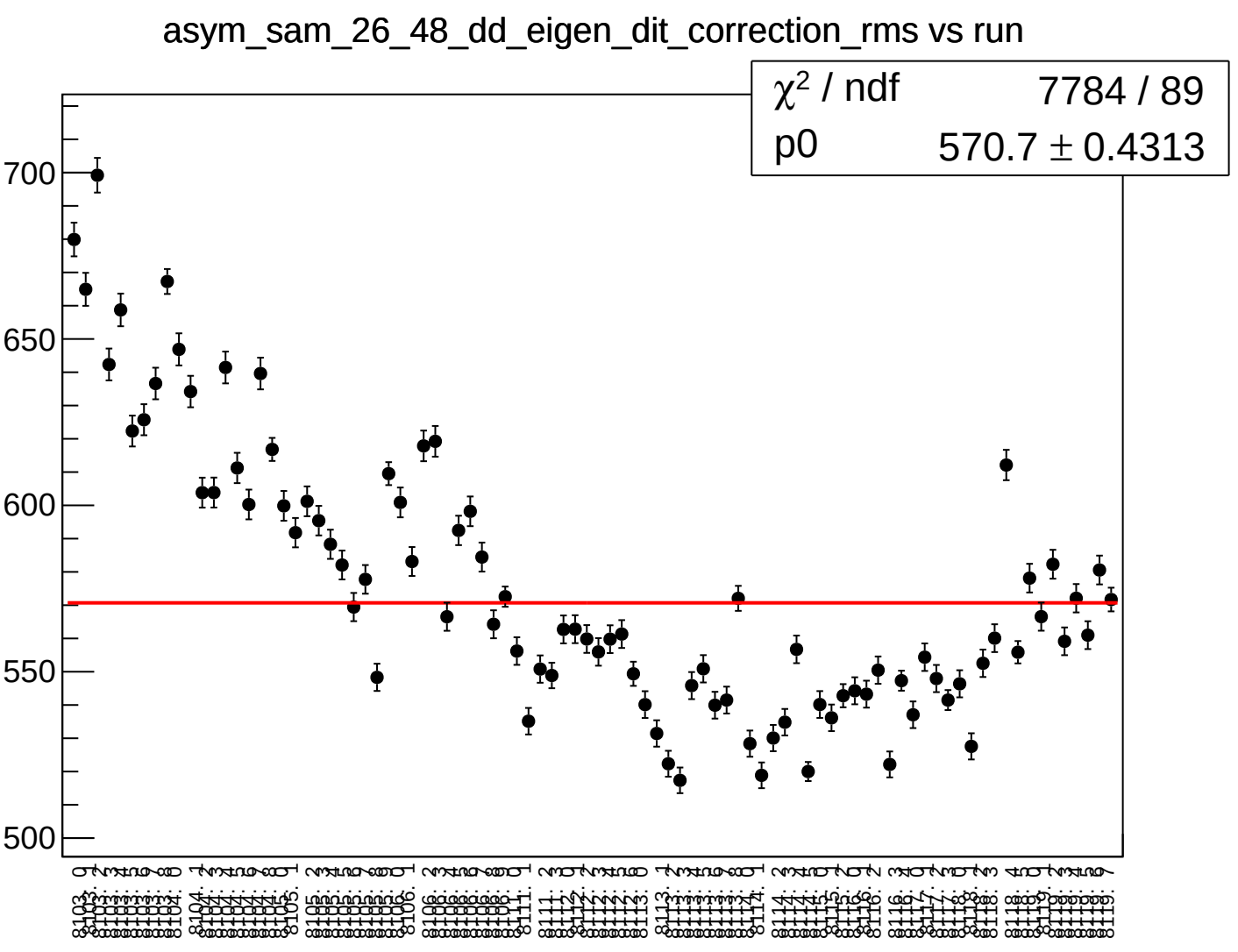

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 74.64 / 89
p0 −163.1 ± 100.1
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean 116.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

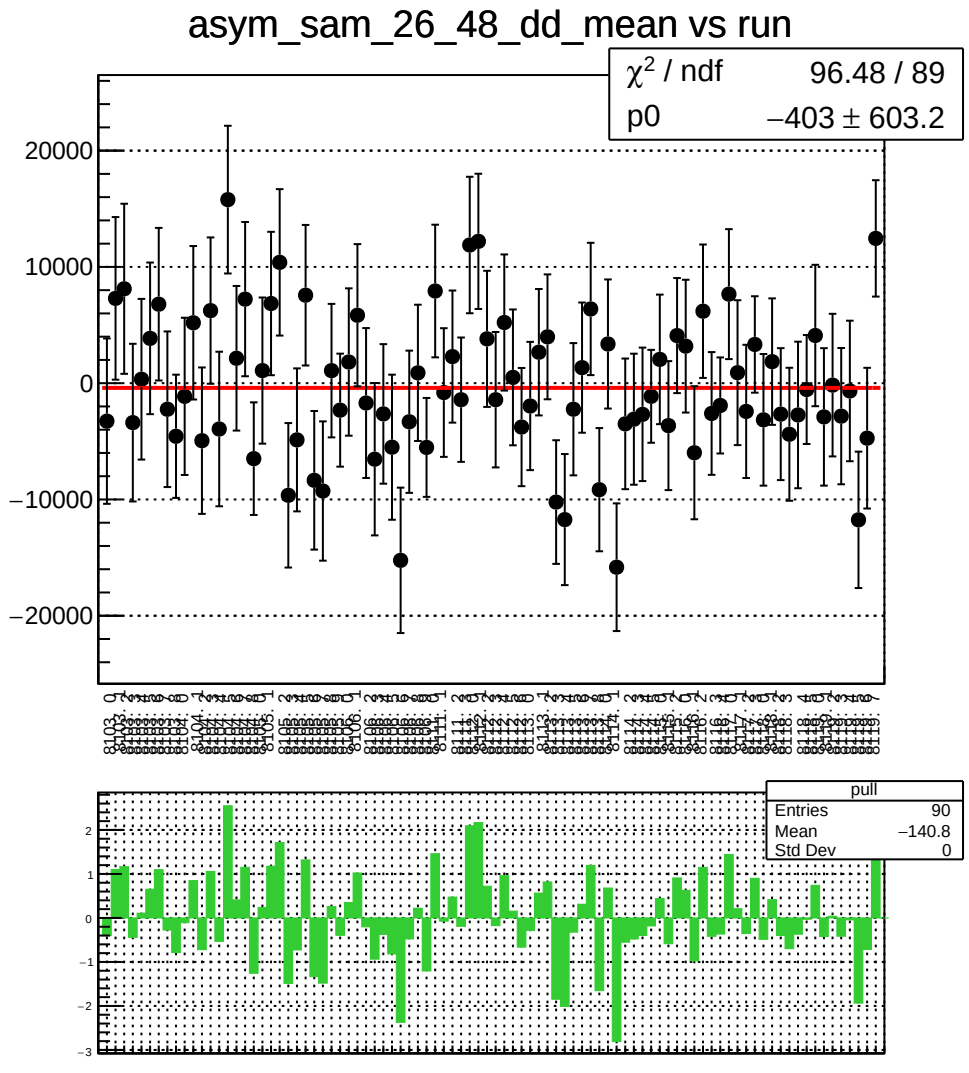

pull1D
Entries 90
Mean 0.01264
Std Dev 0.9106
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

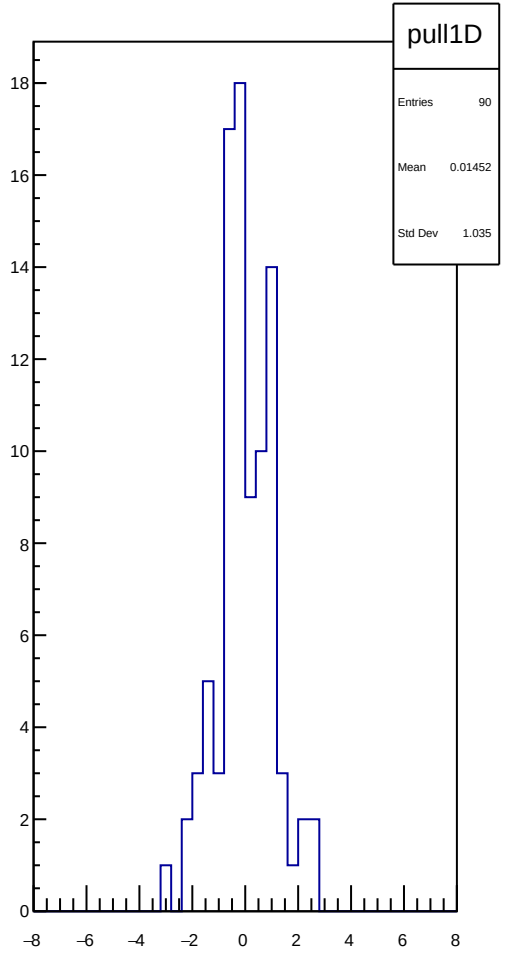

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 5312 / 89
p0 93.75 ± 0.0708
150
140
130
120
110
100
90
80

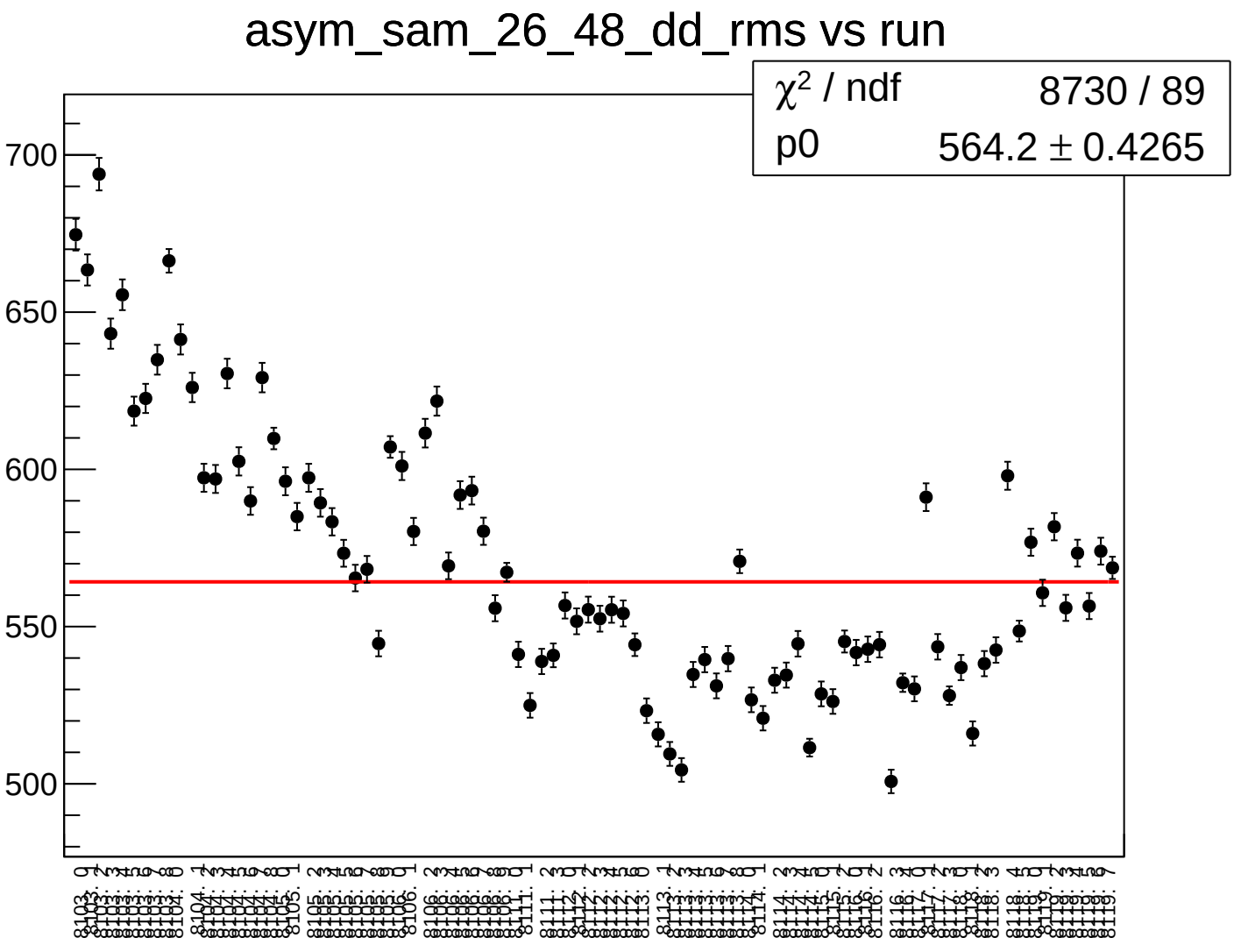

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.17 / 89
p0 250.5 ± 609.9
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −172.5
Std Dev 0
3
2
1
0
−1
−2

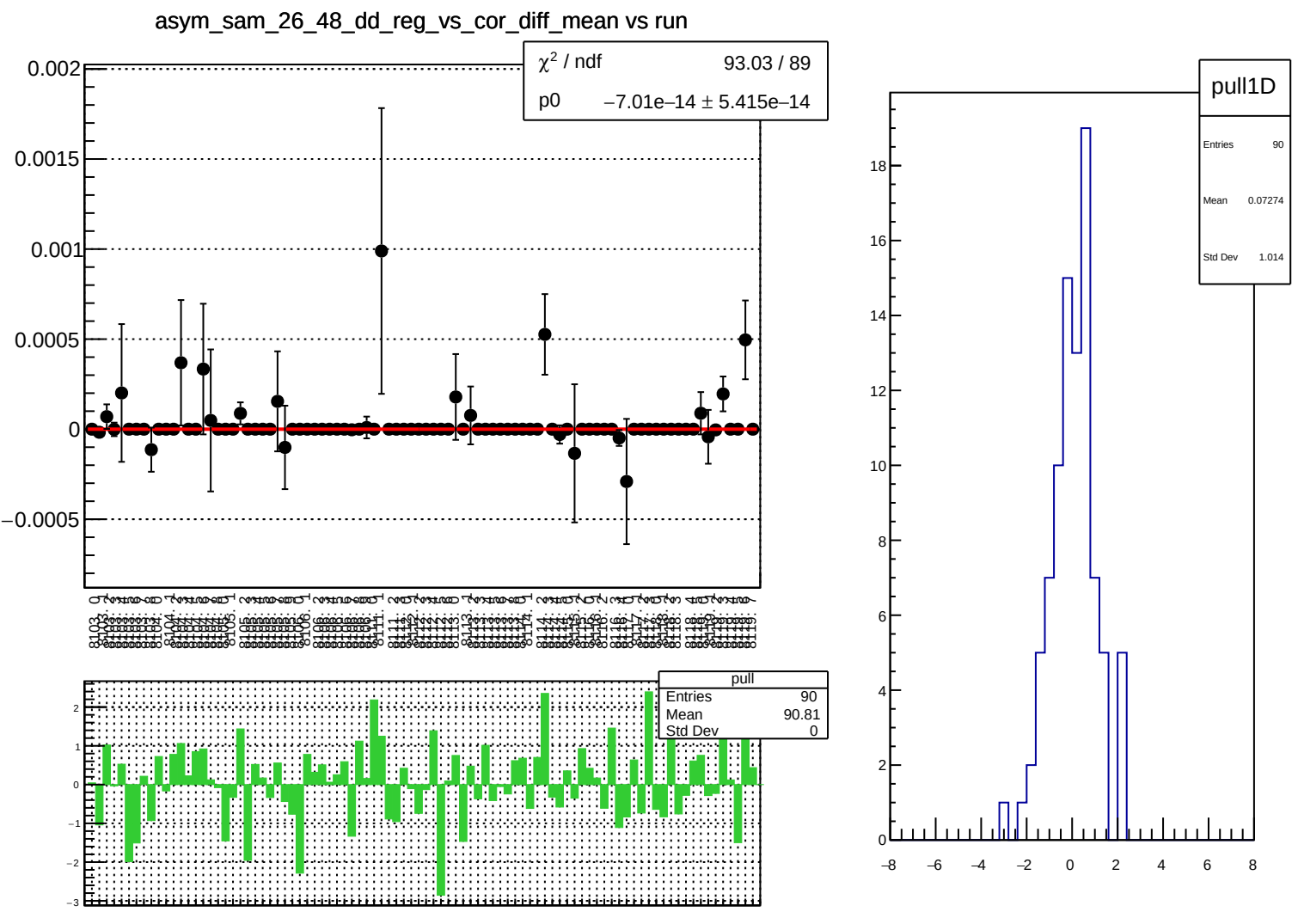

pull1D
Entries 90
Mean −0.01284
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

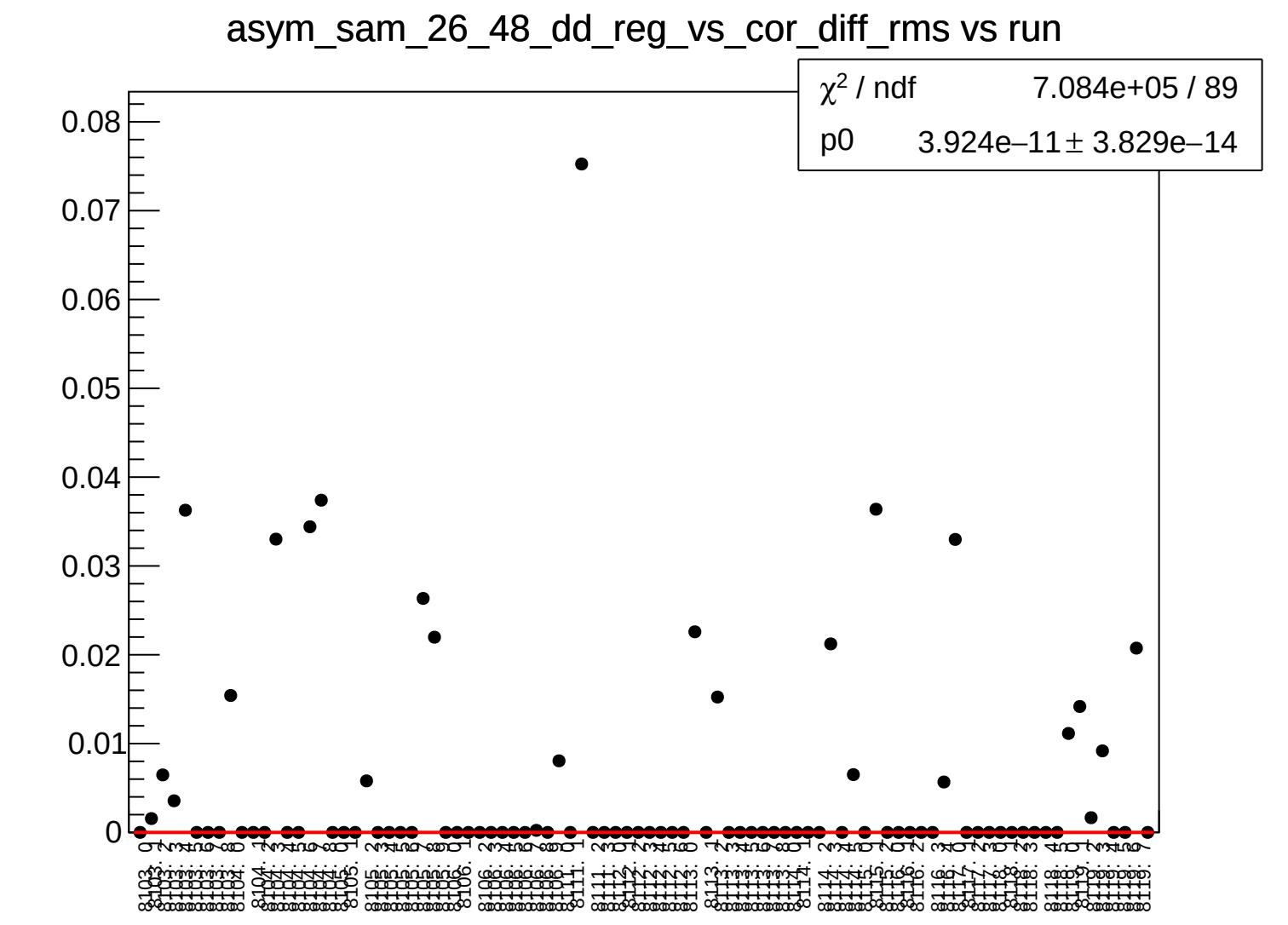

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7784 / 89
p0 570.7 ± 0.4313
700
650
600
550
500

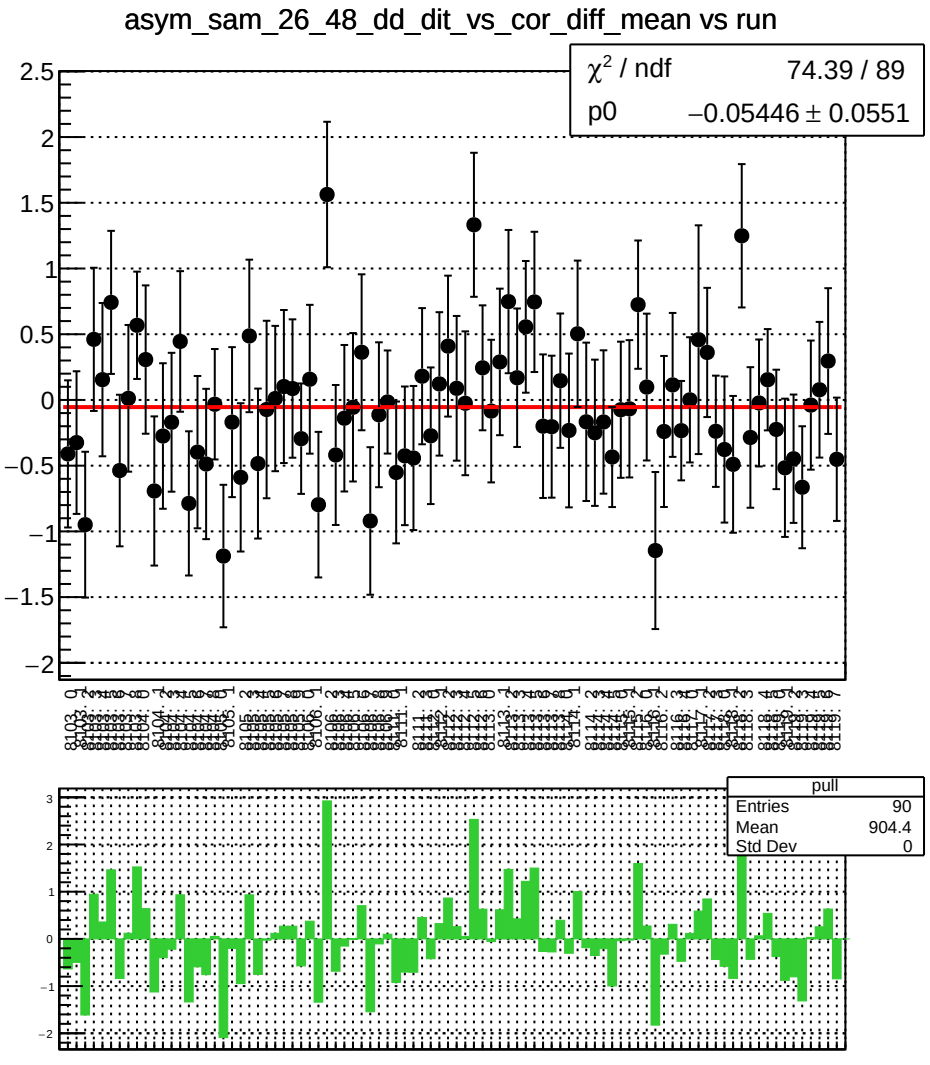

asym_sam_26_48_dd_mean vs run
χ² / ndf 96.48 / 89
p0 −403 ± 603.2
20000
10000
0
−10000
−20000
pull
Entries 90
Mean −140.8
Std Dev 0
2
1
0
−1
−2
−3

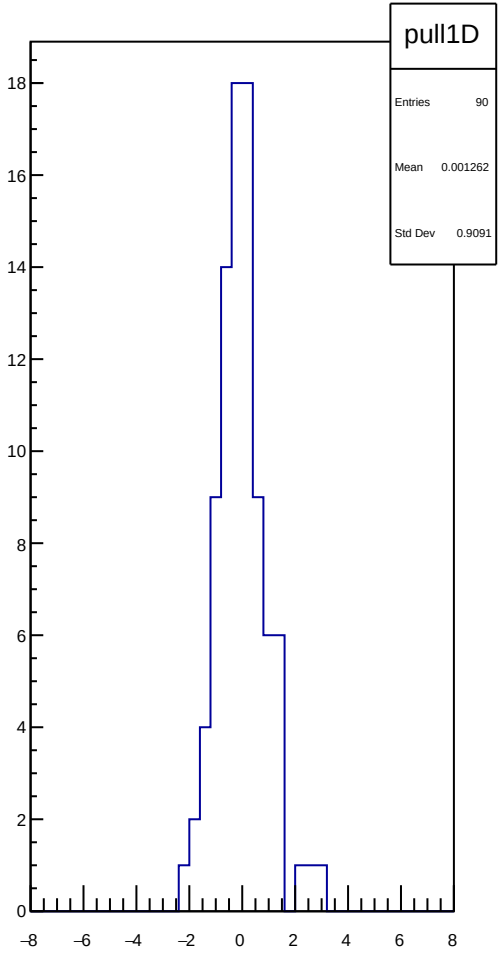

pull1D
Entries 90
Mean 0.01452
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

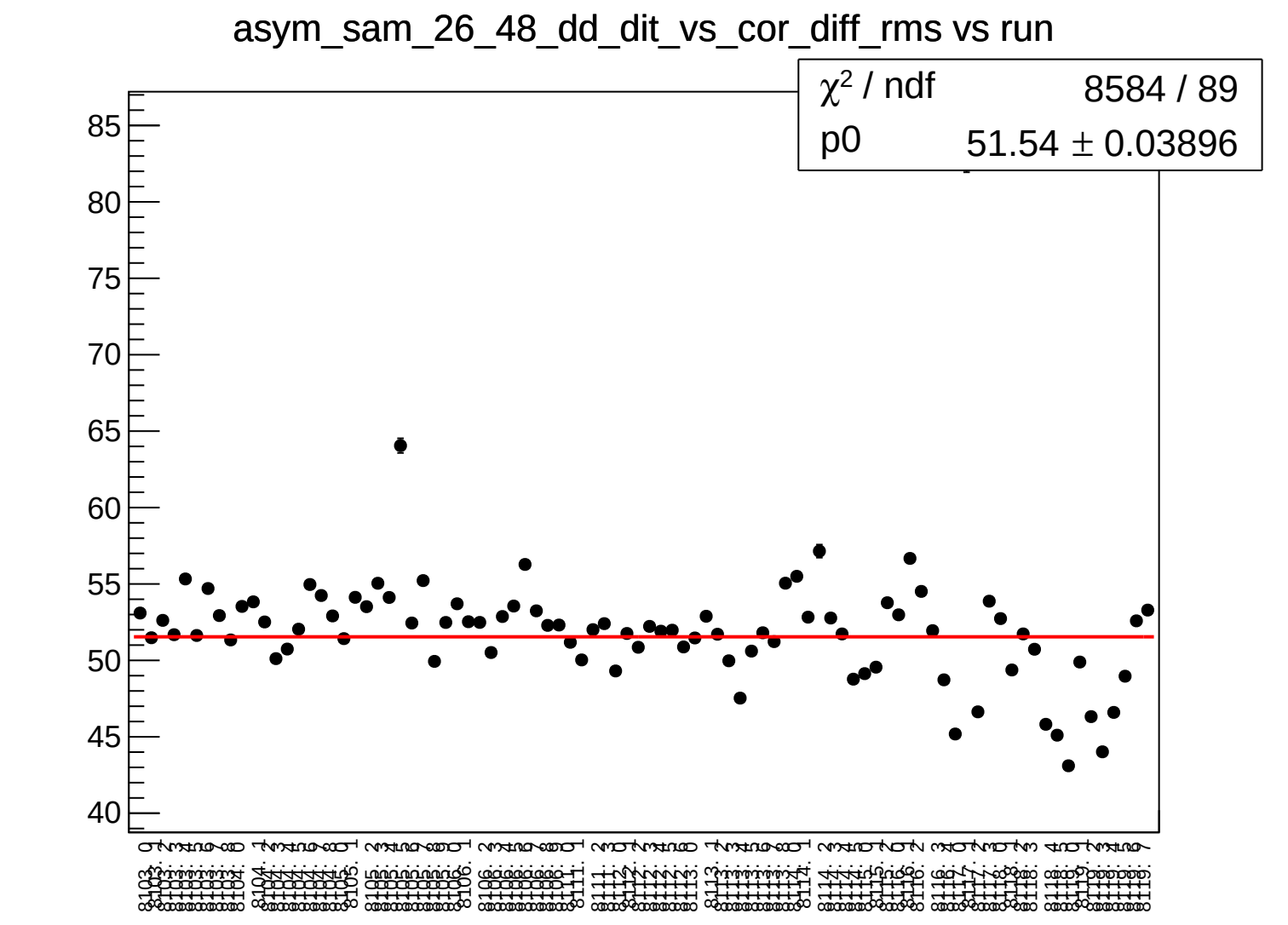

asym_sam_26_48_dd_rms vs run
χ² / ndf 8730 / 89
p0 564.2 ± 0.4265
700
650
600
550
500

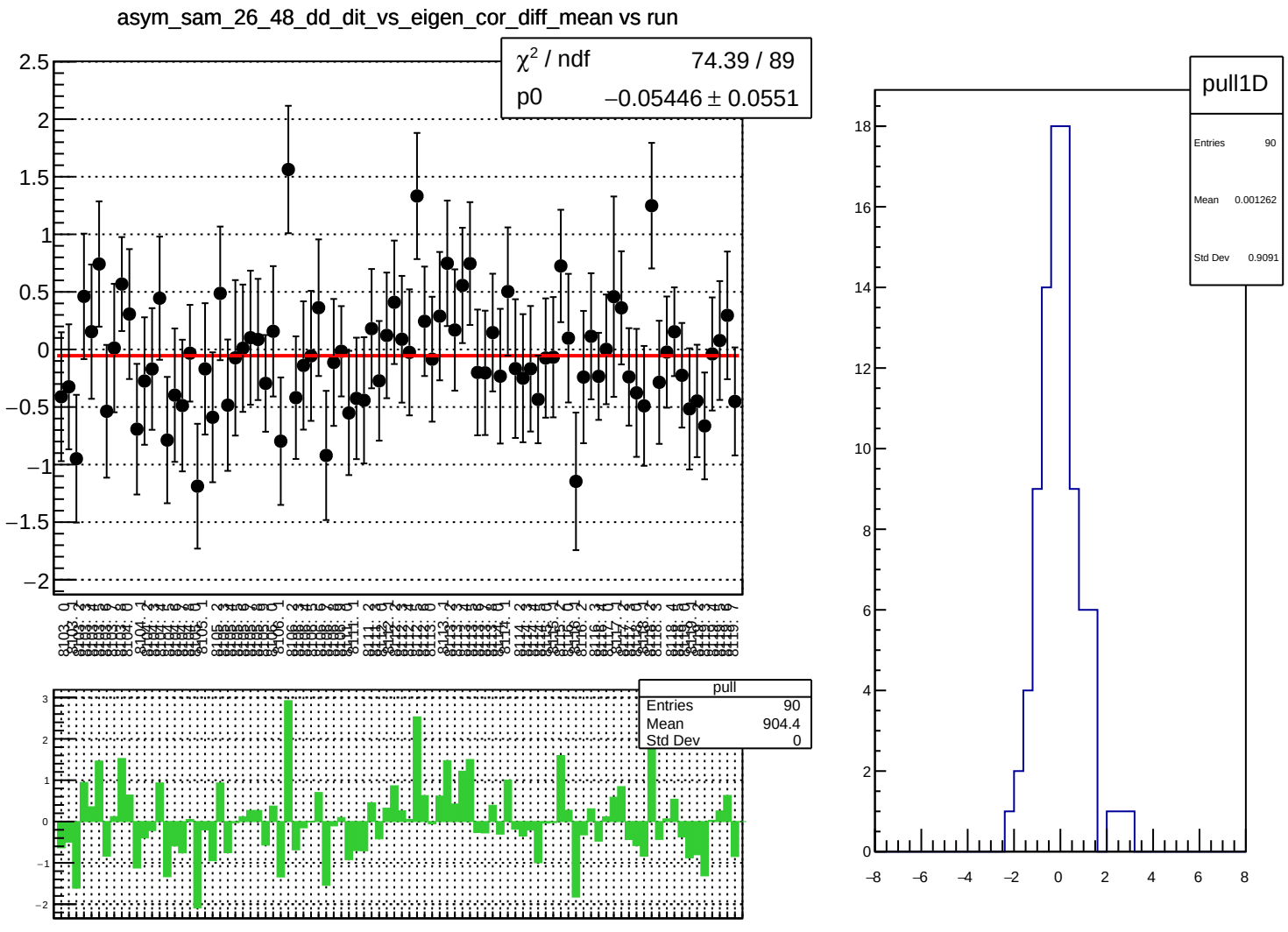

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.03 / 89
p0 −7.01e−14 ± 5.415e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 90
Mean 90.81
Std Dev 0
pull1D
Entries 90
Mean 0.07274
Std Dev 1.014

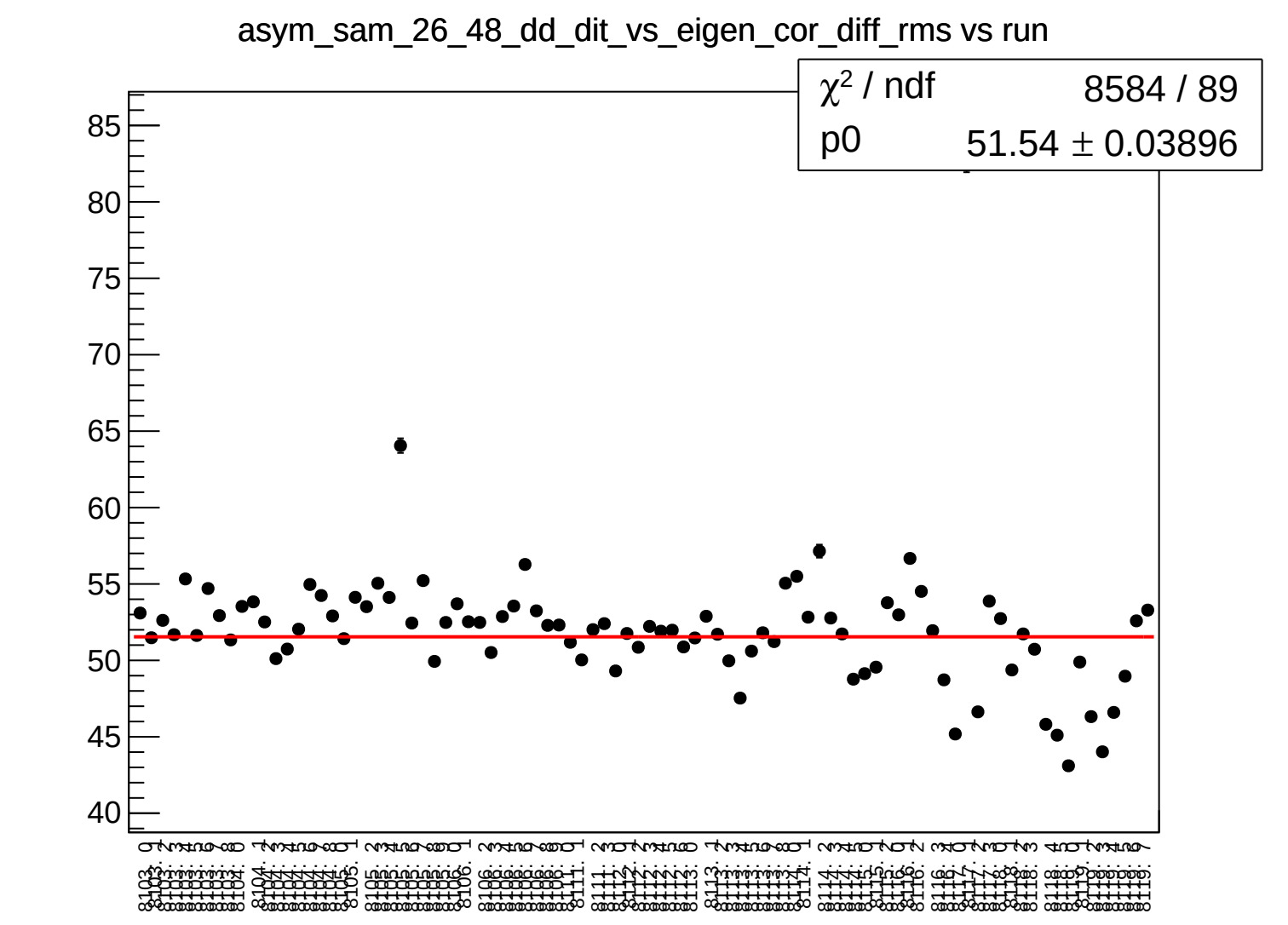

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.084e+05 / 89
p0 3.924e−11 ± 3.829e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

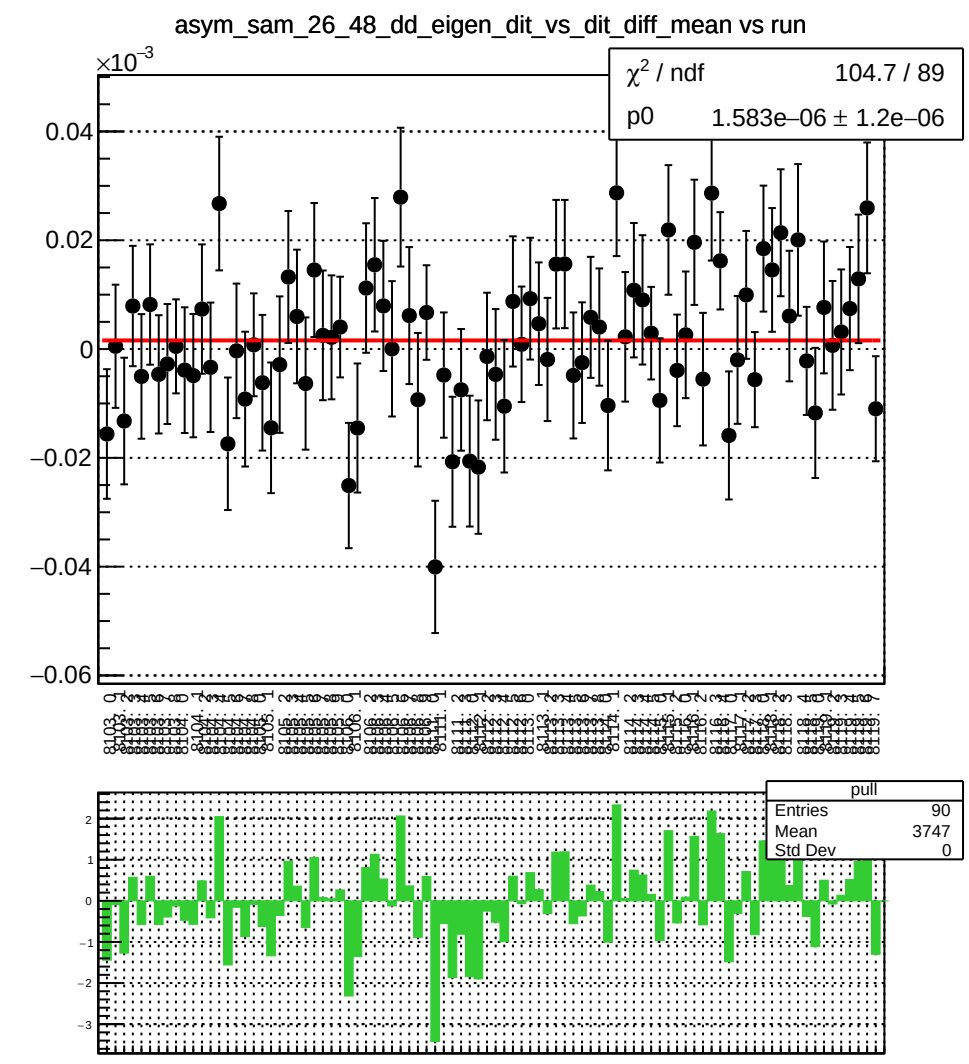

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.39 / 89
p0 −0.05446 ± 0.0551
pull
Entries 90
Mean 904.4
Std Dev 0

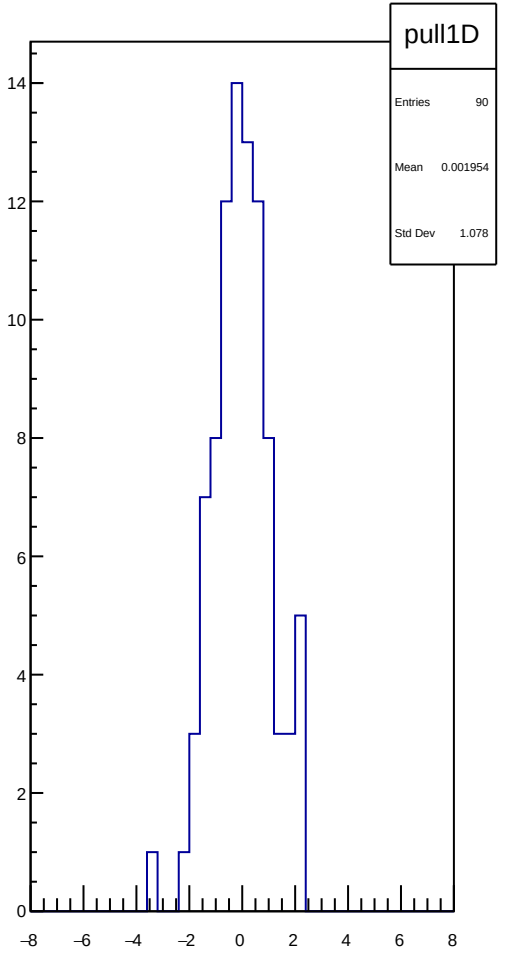

pull1D
Entries 90
Mean 0.001262
Std Dev 0.9091

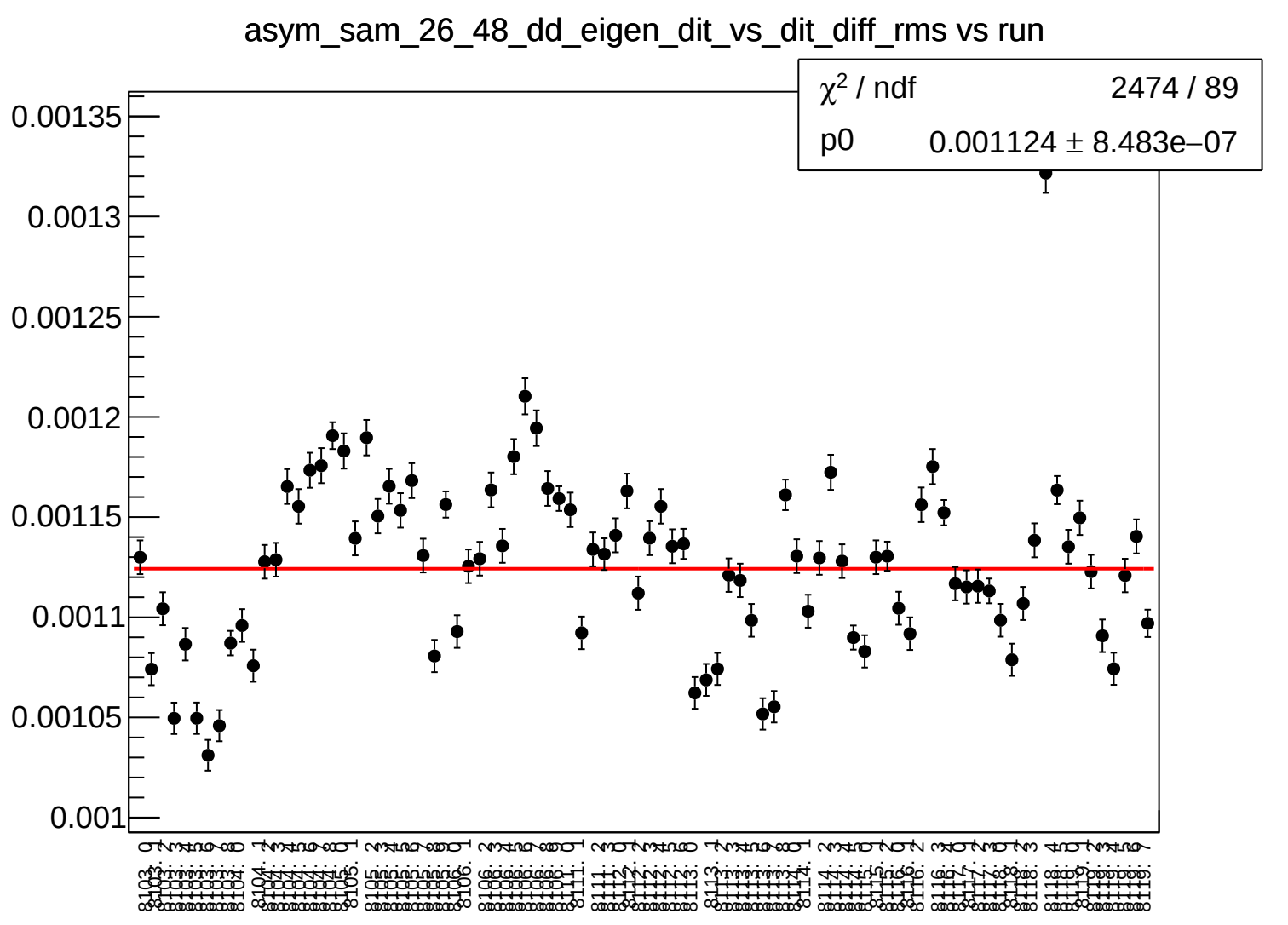

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8584 / 89
p0 51.54 ± 0.03896
85
80
75
70
65
60
55
50
45
40

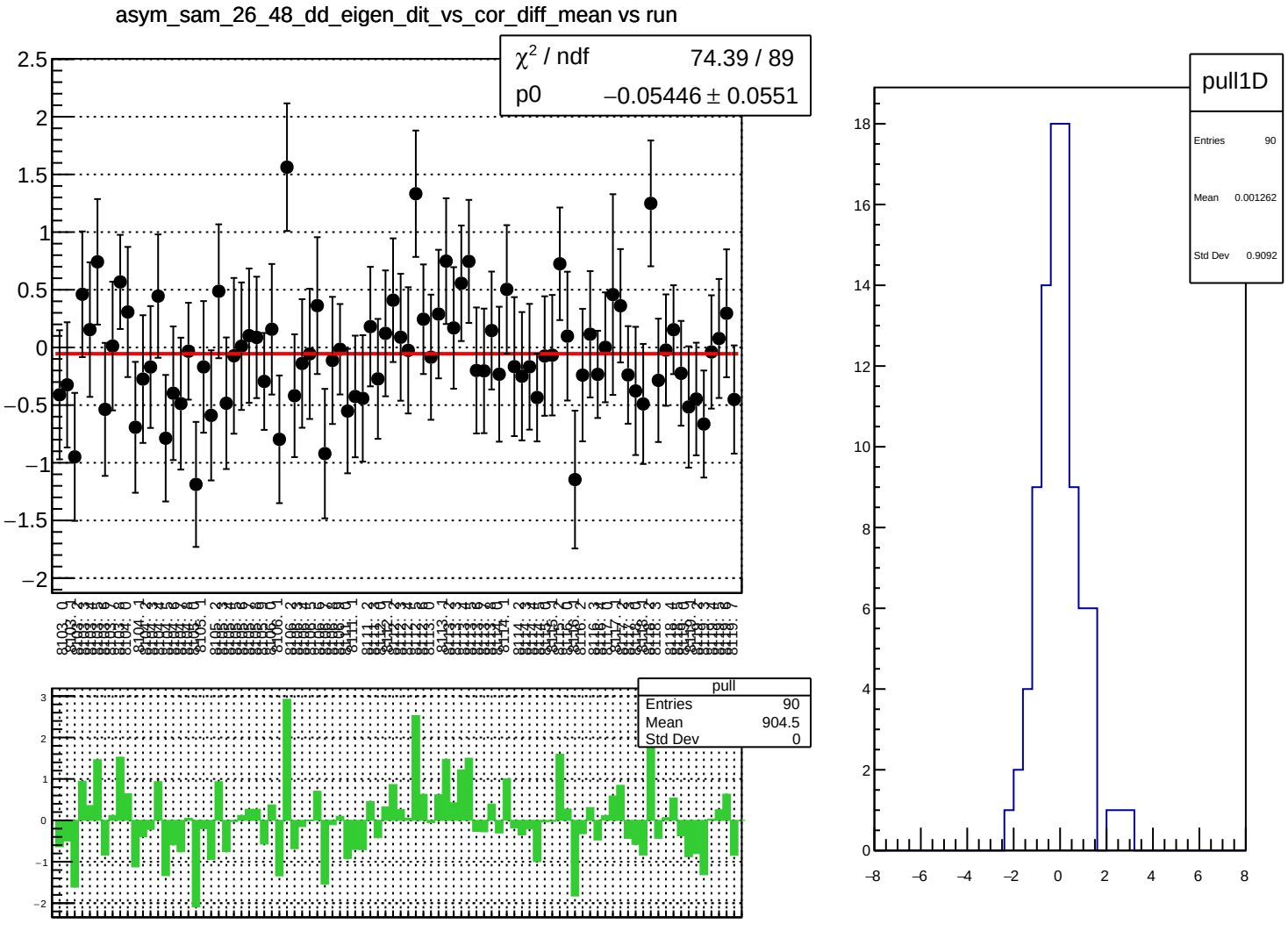

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.39 / 89
p0 −0.05446 ± 0.0551
pull
Entries 90
Mean 904.4
Std Dev 0
pull1D
Entries 90
Mean 0.001262
Std Dev 0.9091

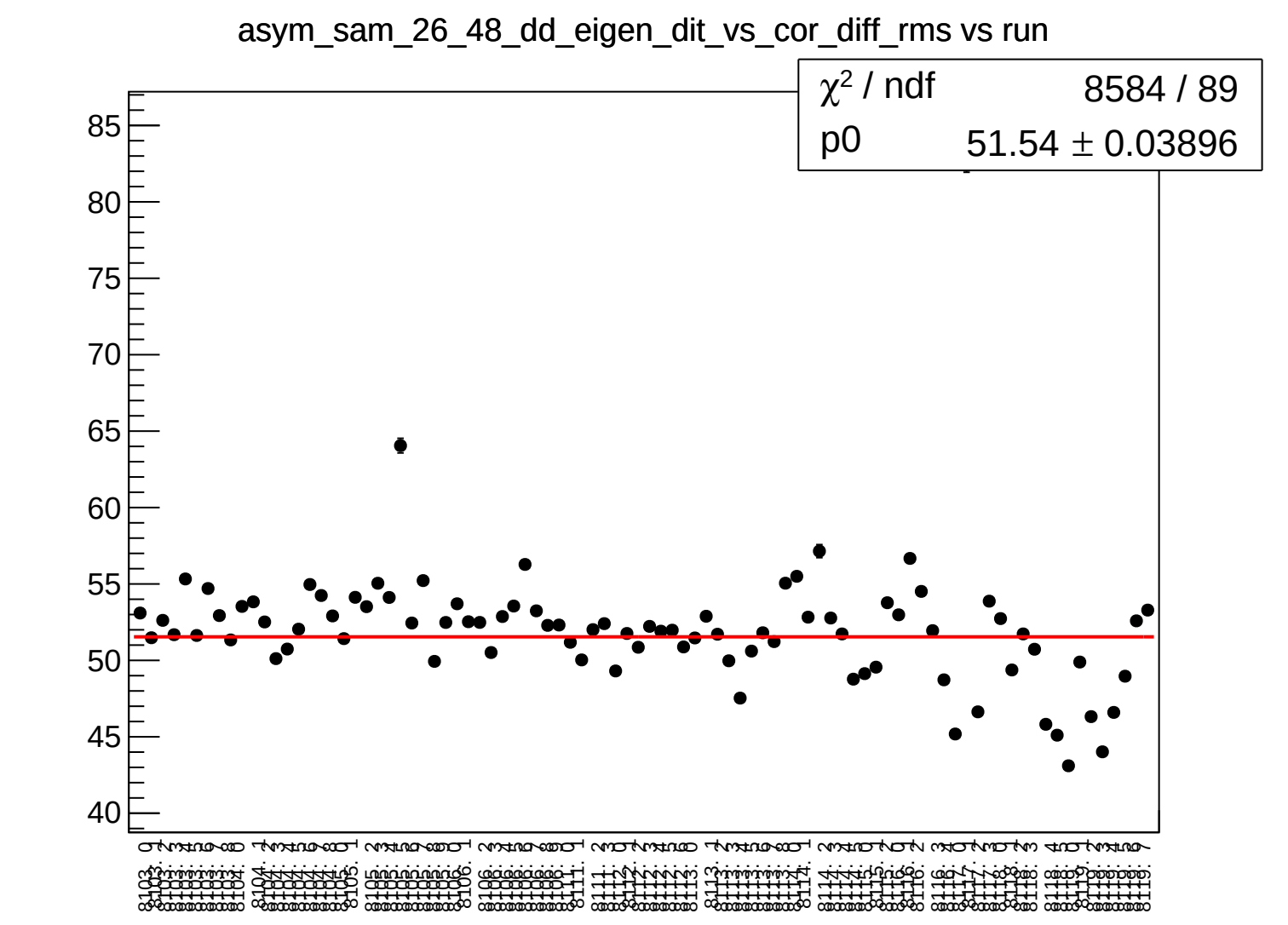

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8584 / 89
p0 51.54 ± 0.03896
85
80
75
70
65
60
55
50
45
40

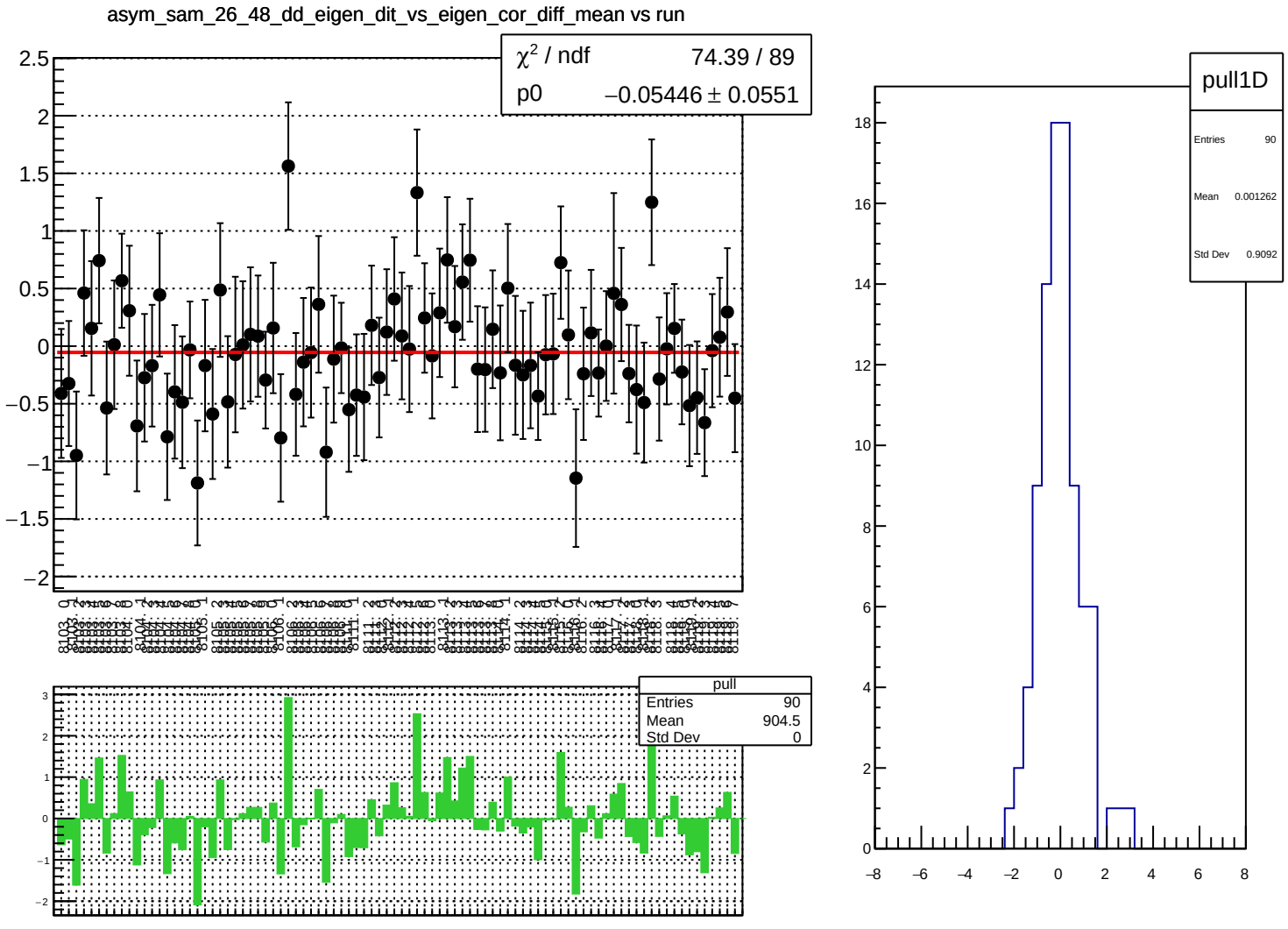

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.7 / 89
p0 1.583e−06 ± 1.2e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean 3747
Std Dev 0
2
1
0
−1
−2
−3

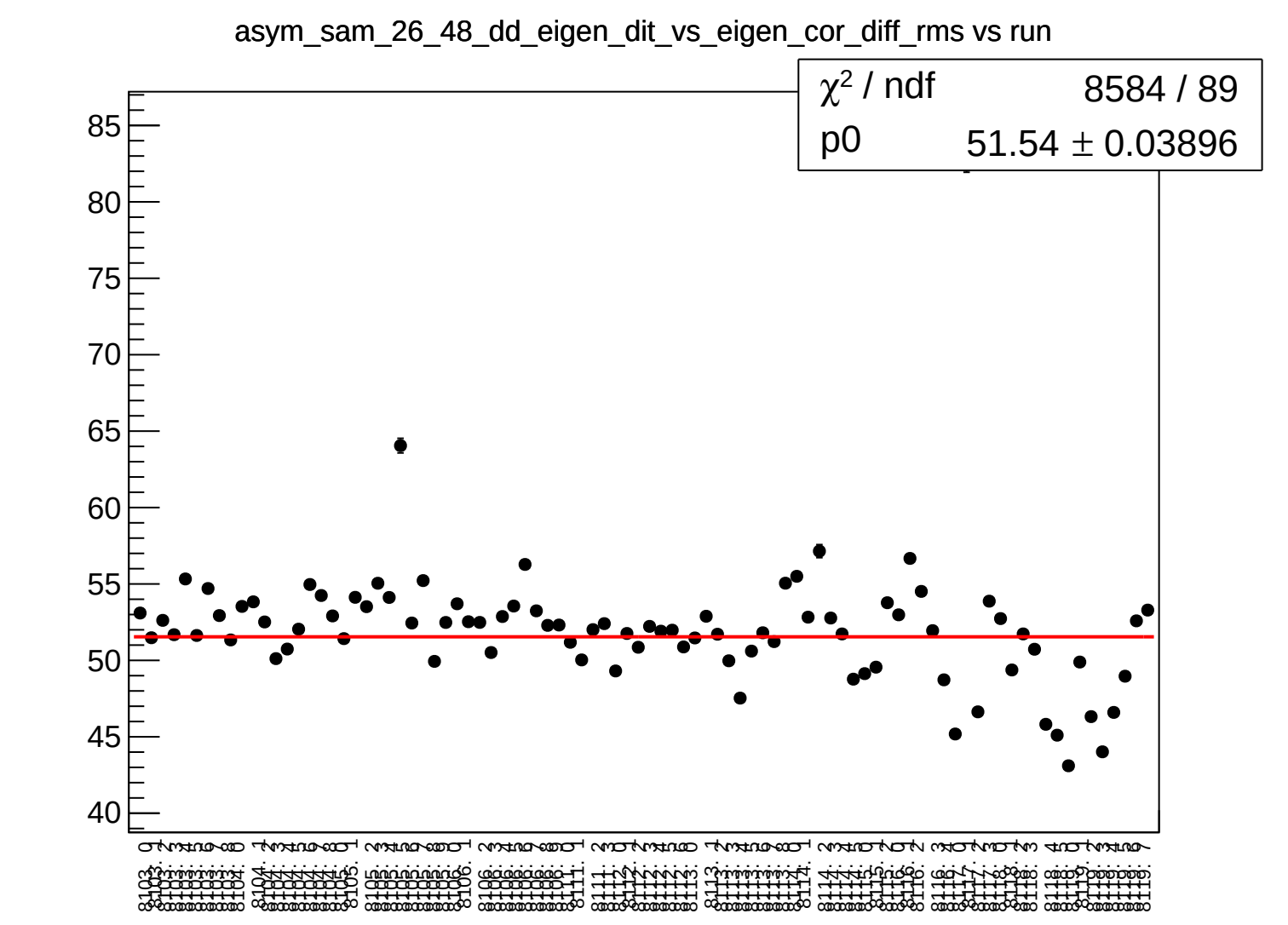

pull1D
Entries 90
Mean 0.001954
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

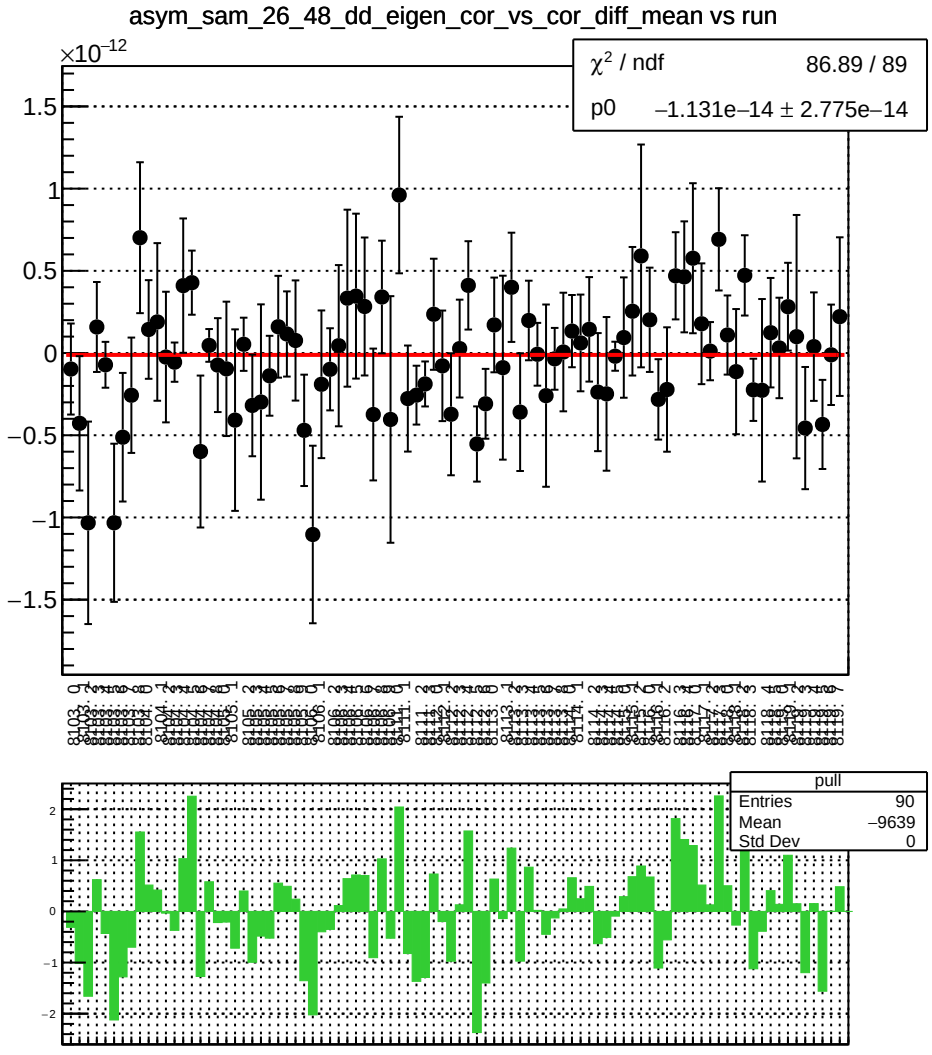

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2474 / 89
p0 0.001124 ± 8.483e−07
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001

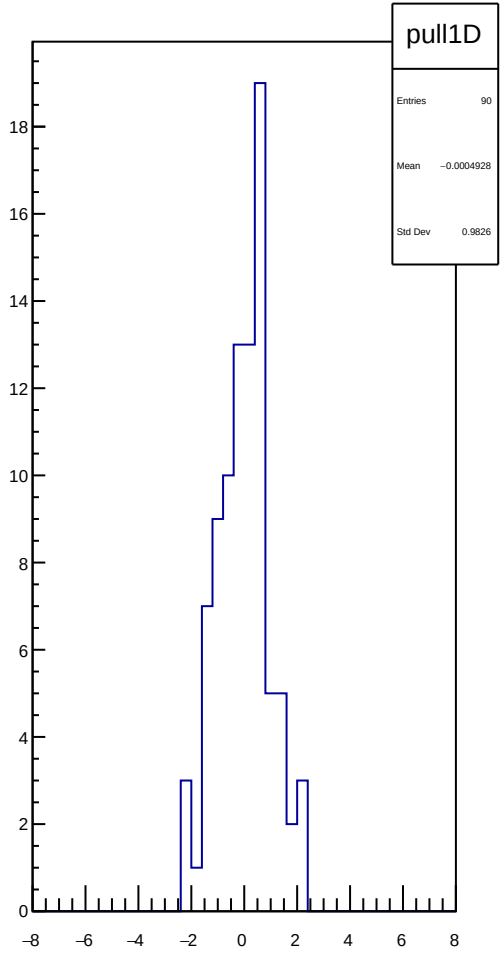

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.39 / 89
p0 −0.05446 ± 0.0551
pull
Entries 90
Mean 904.5
Std Dev 0
pull1D
Entries 90
Mean 0.001262
Std Dev 0.9092

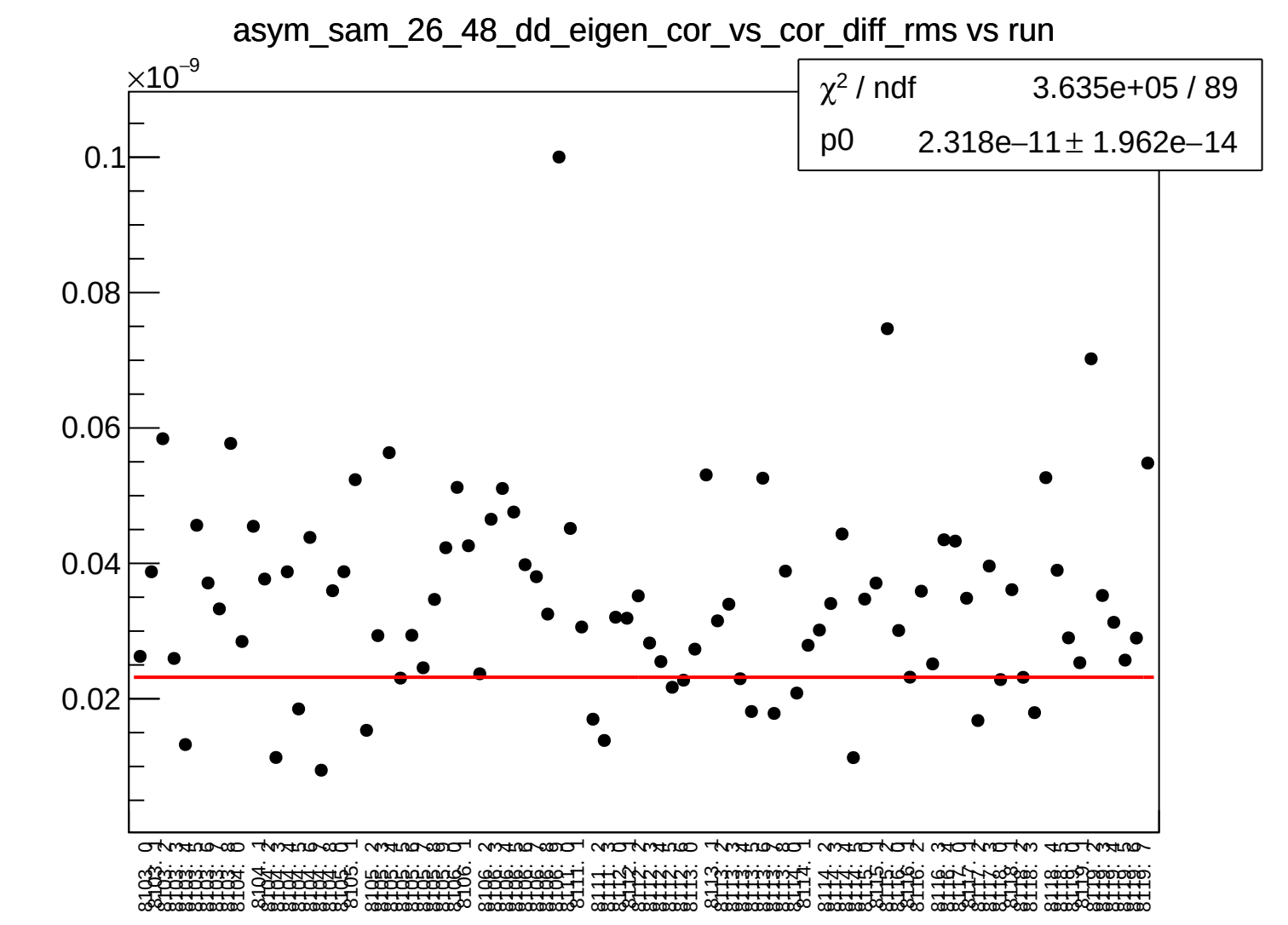

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8584 / 89
p0 51.54 ± 0.03896
85
80
75
70
65
60
55
50
45
40

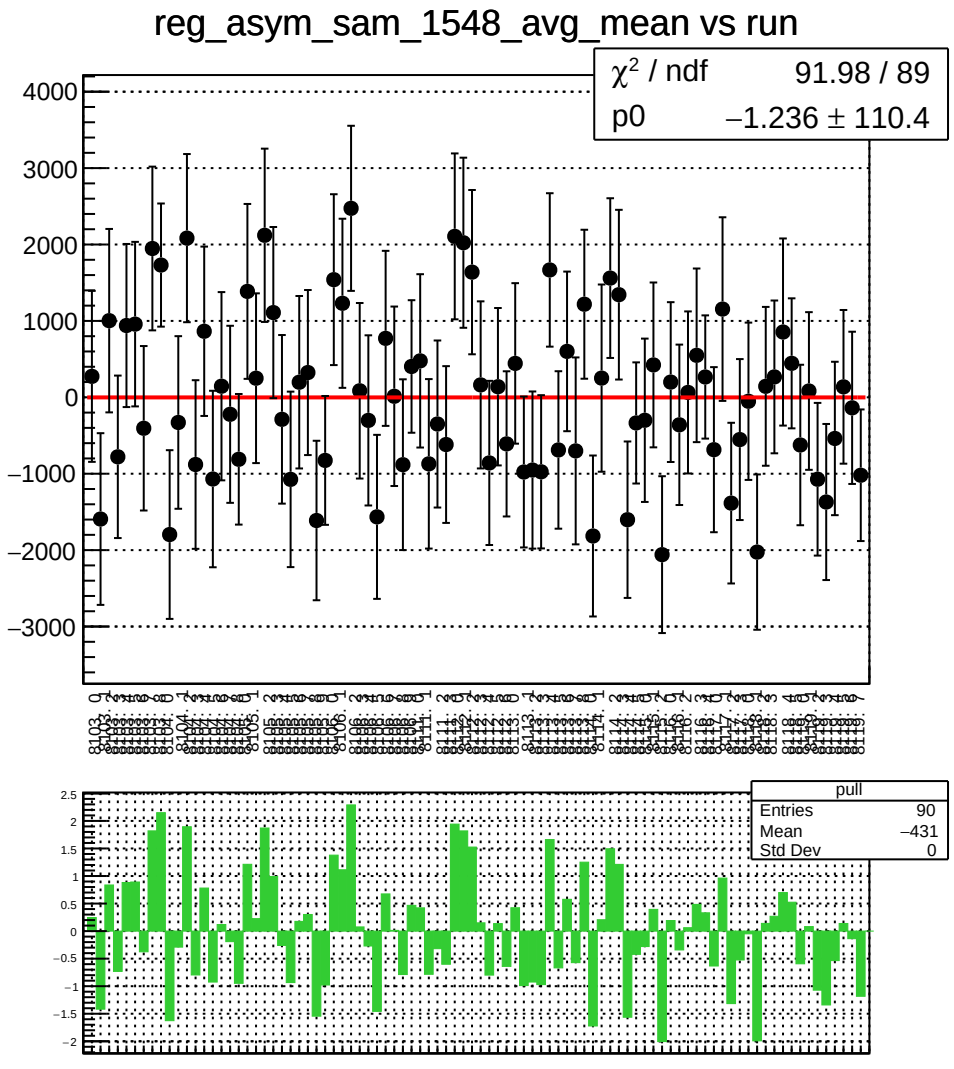

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.39 / 89
p0 −0.05446 ± 0.0551
pull
Entries 90
Mean 904.5
Std Dev 0
pull1D
Entries 90
Mean 0.001262
Std Dev 0.9092

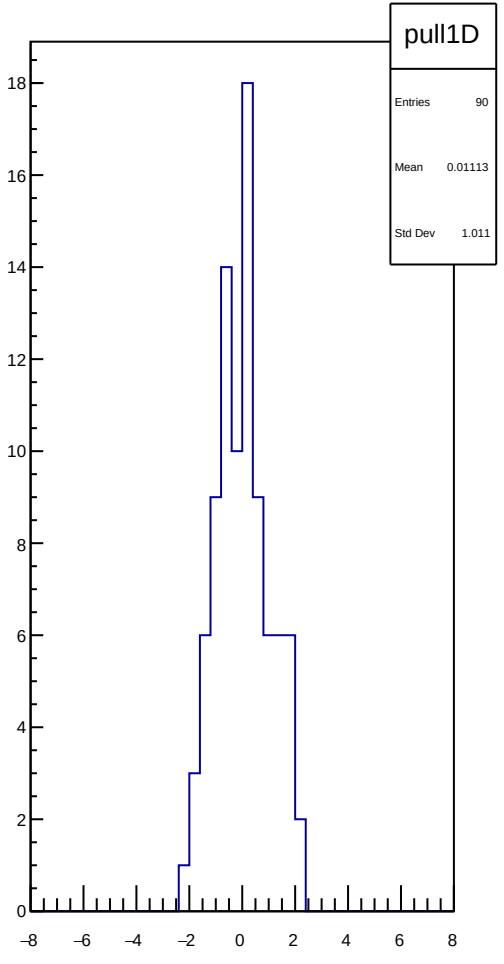

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8584 / 89
p0 51.54 ± 0.03896
85
80
75
70
65
60
55
50
45
40

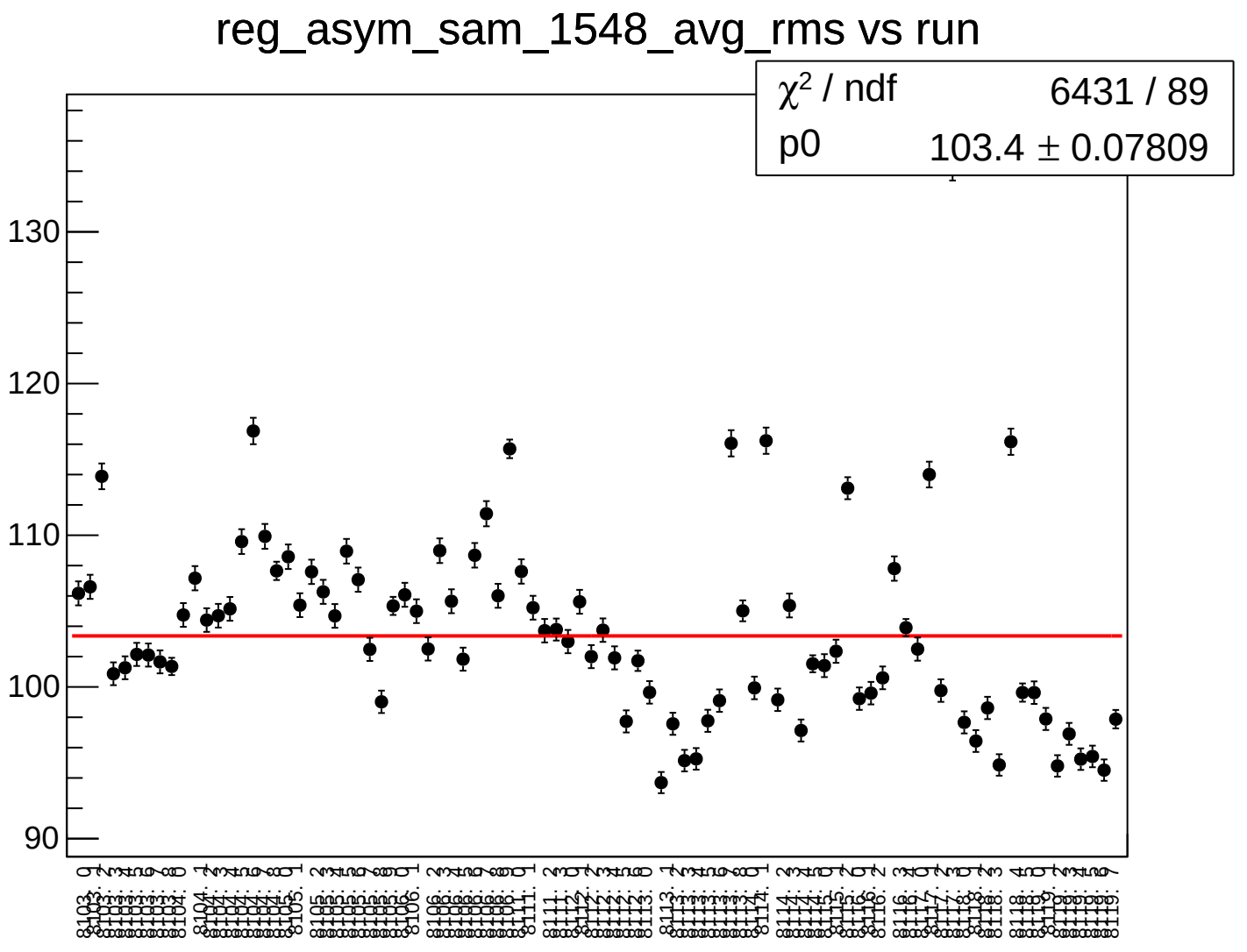

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.89 / 89
p0 −1.131e−14 ± 2.775e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 90
Mean −9639
Std Dev 0
2
1
0
−1
−2

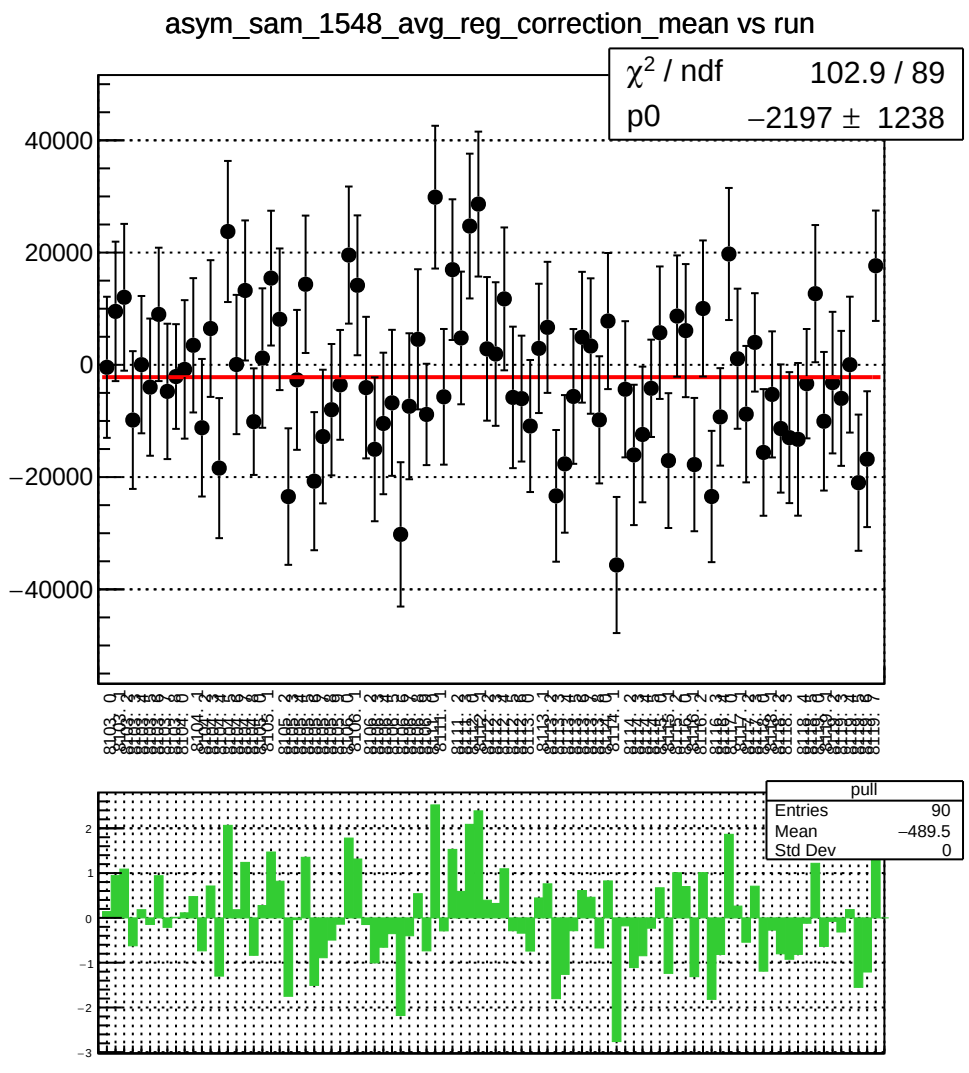

pull1D
Entries 90
Mean −0.0004928
Std Dev 0.9826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

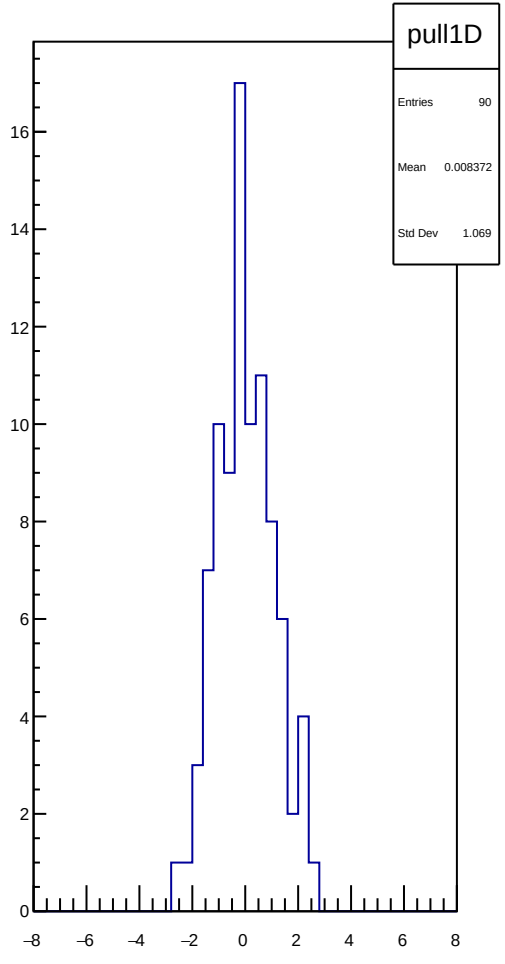

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.635e+05 / 89
p0 2.318e−11 ± 1.962e−14
0.1
0.08
0.06
0.04
0.02

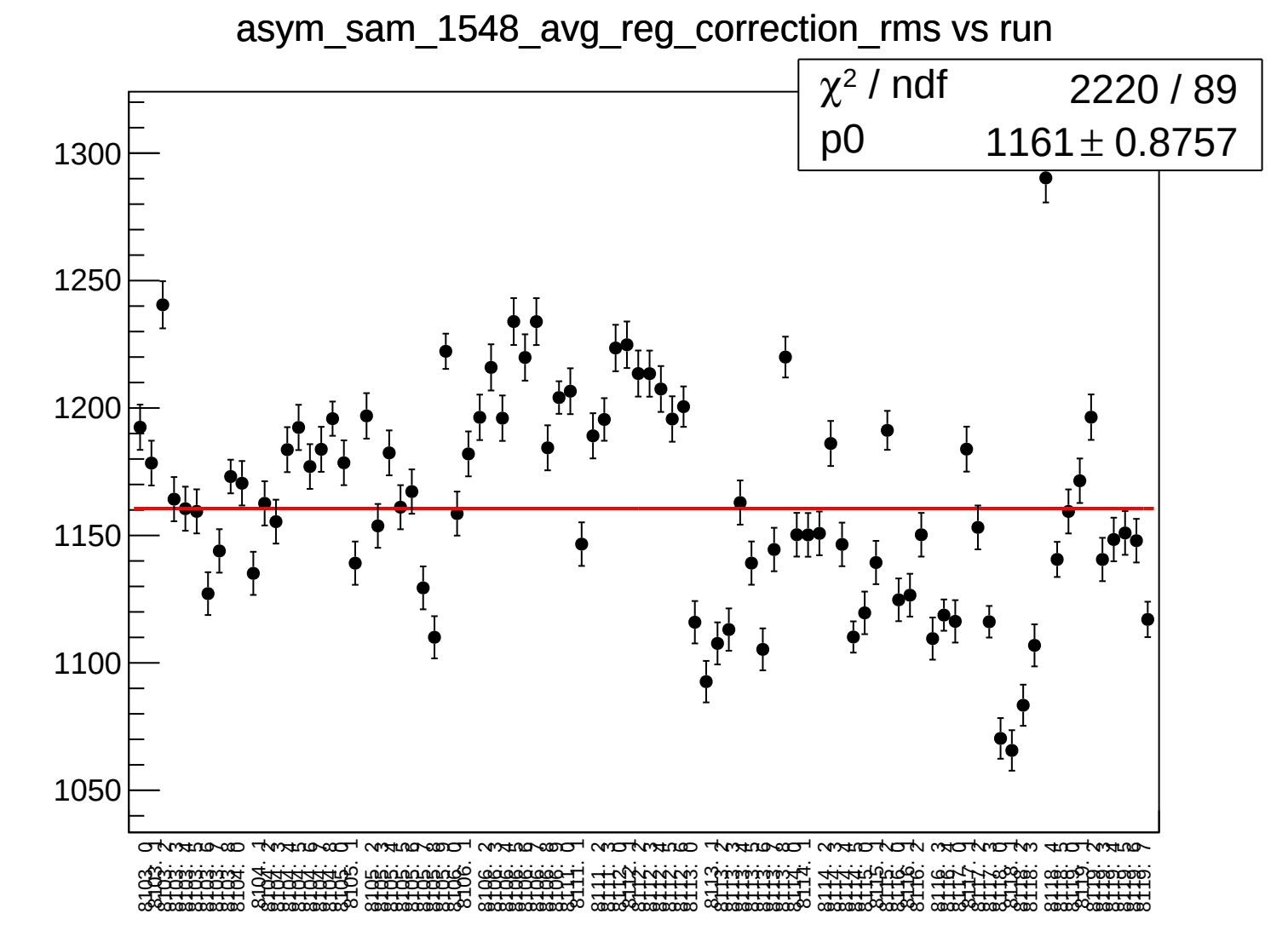

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 91.98 / 89
p0 −1.236 ± 110.4
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 90
Mean −431
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

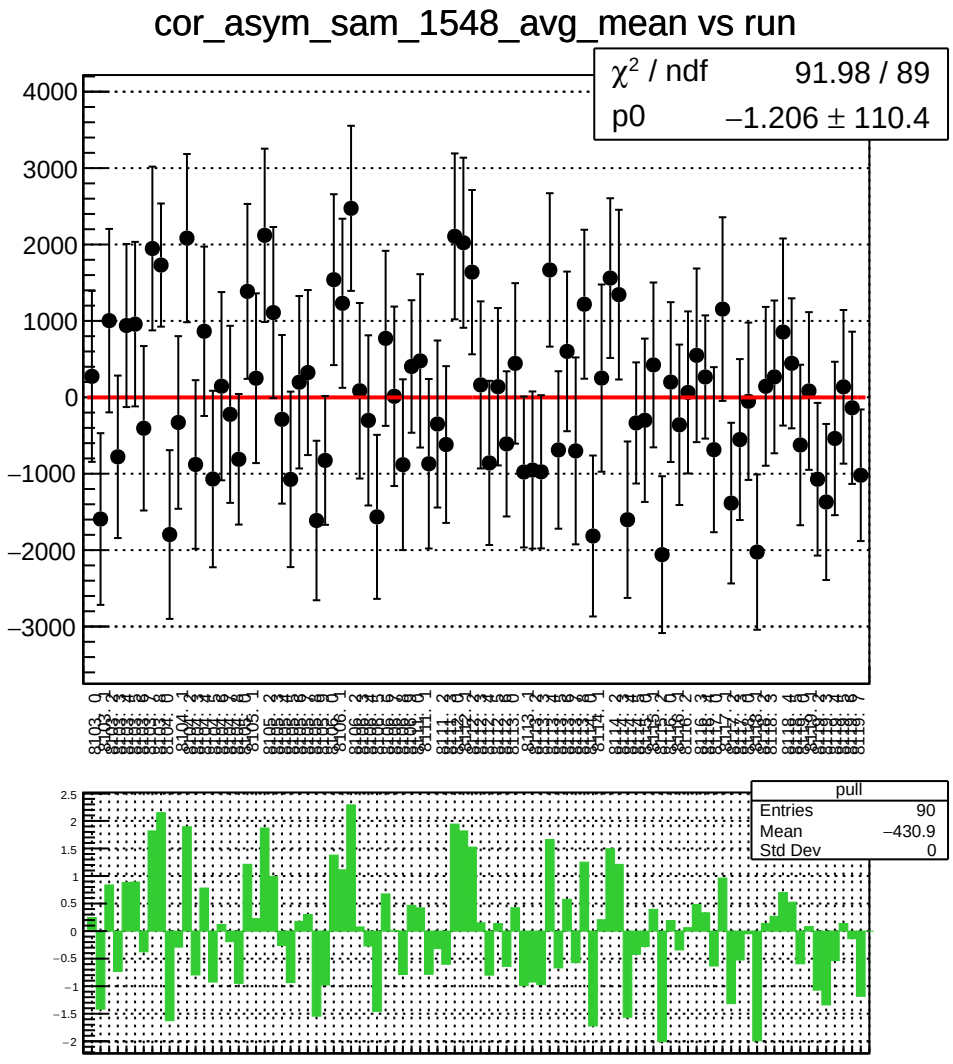

pull1D
Entries 90
Mean 0.01113
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

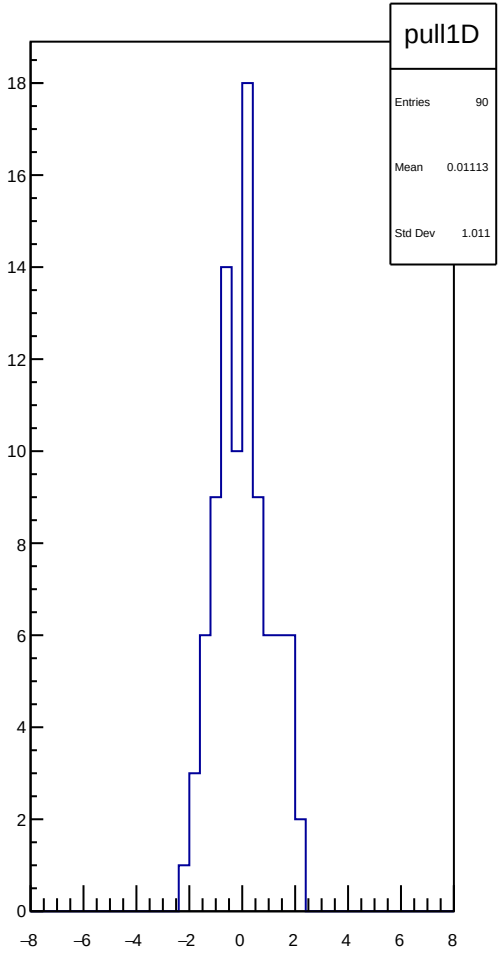

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6431 / 89
p0 103.4 ± 0.07809
130
120
110
100
90

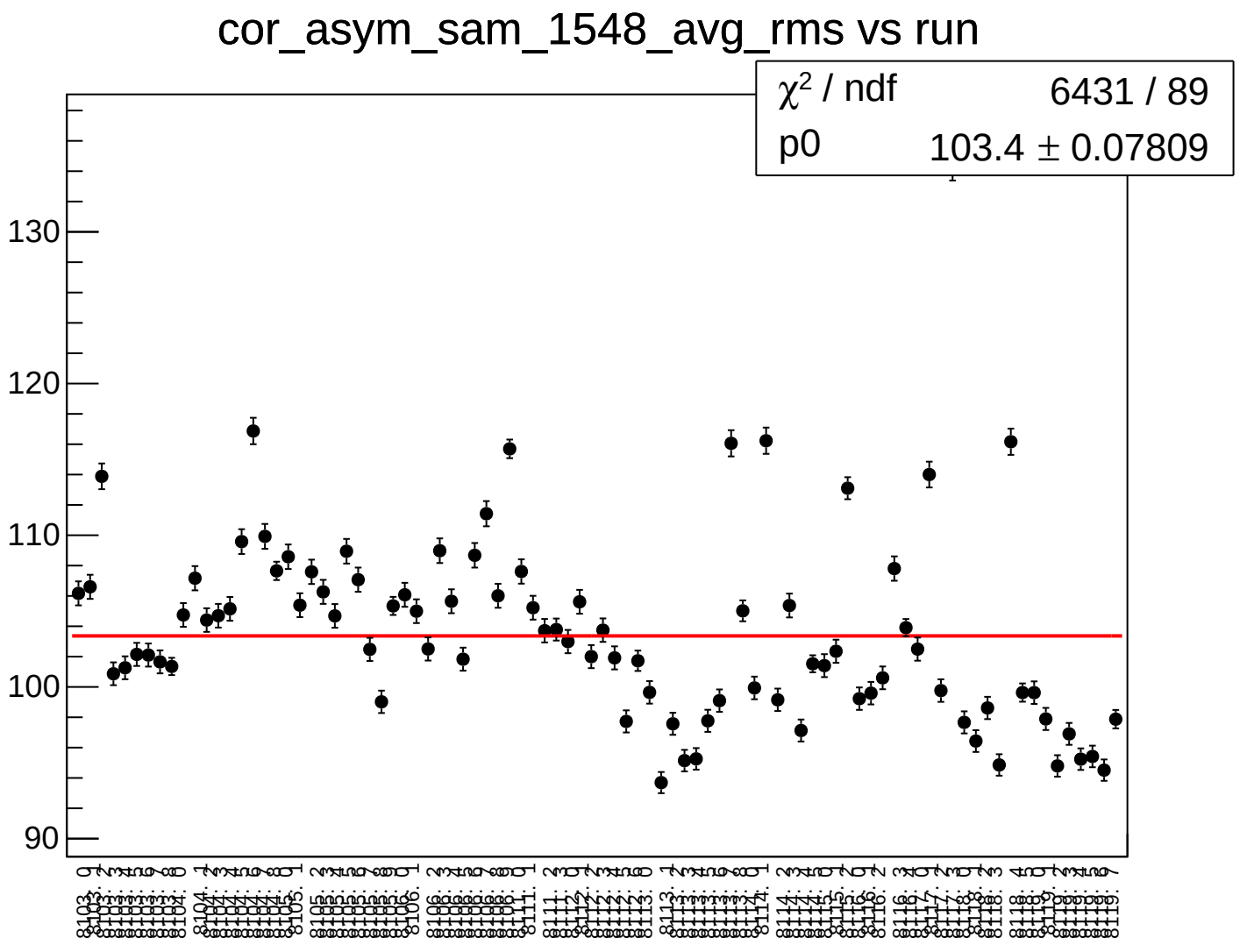

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 102.9 / 89
p0 −2197 ± 1238
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −489.5
Std Dev 0
2
1
0
−1
−2
−3

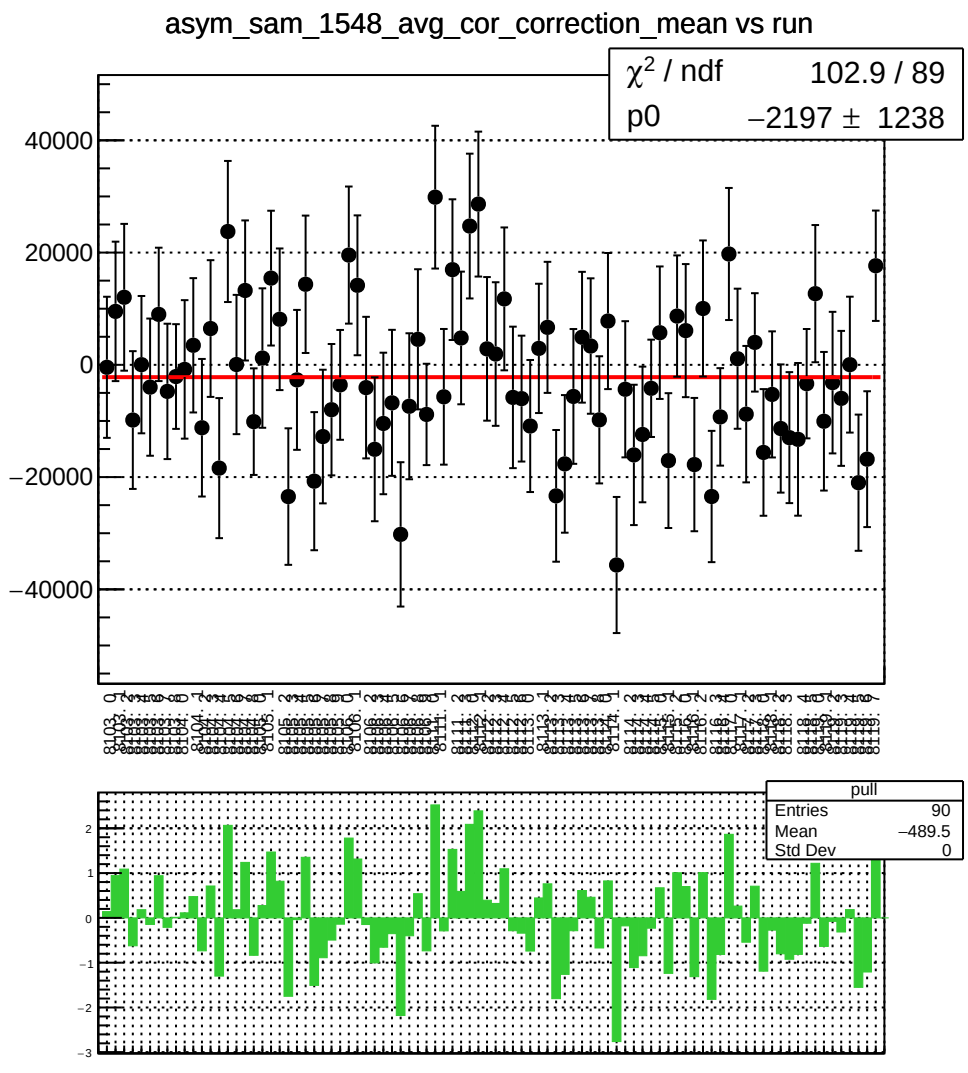

pull1D
Entries 90
Mean 0.008372
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

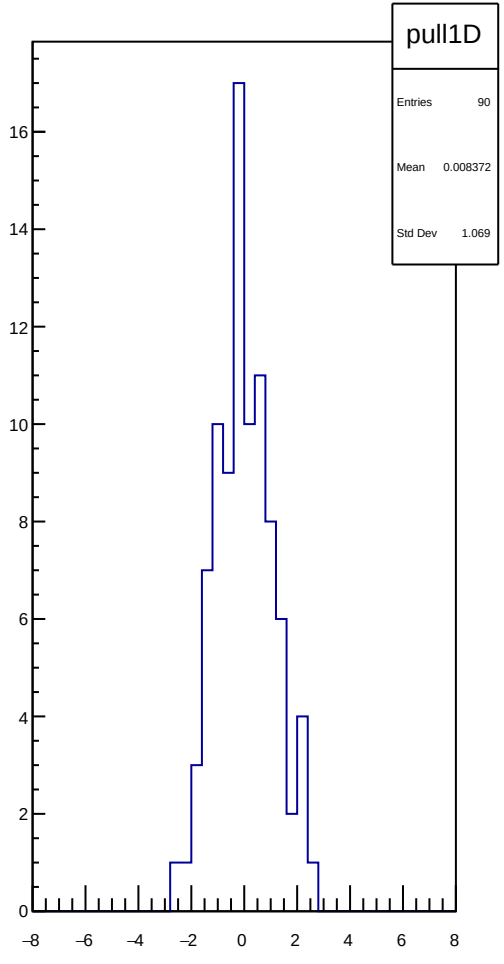

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2220 / 89
p0 1161 ± 0.8757
1300
1250
1200
1150
1100
1050

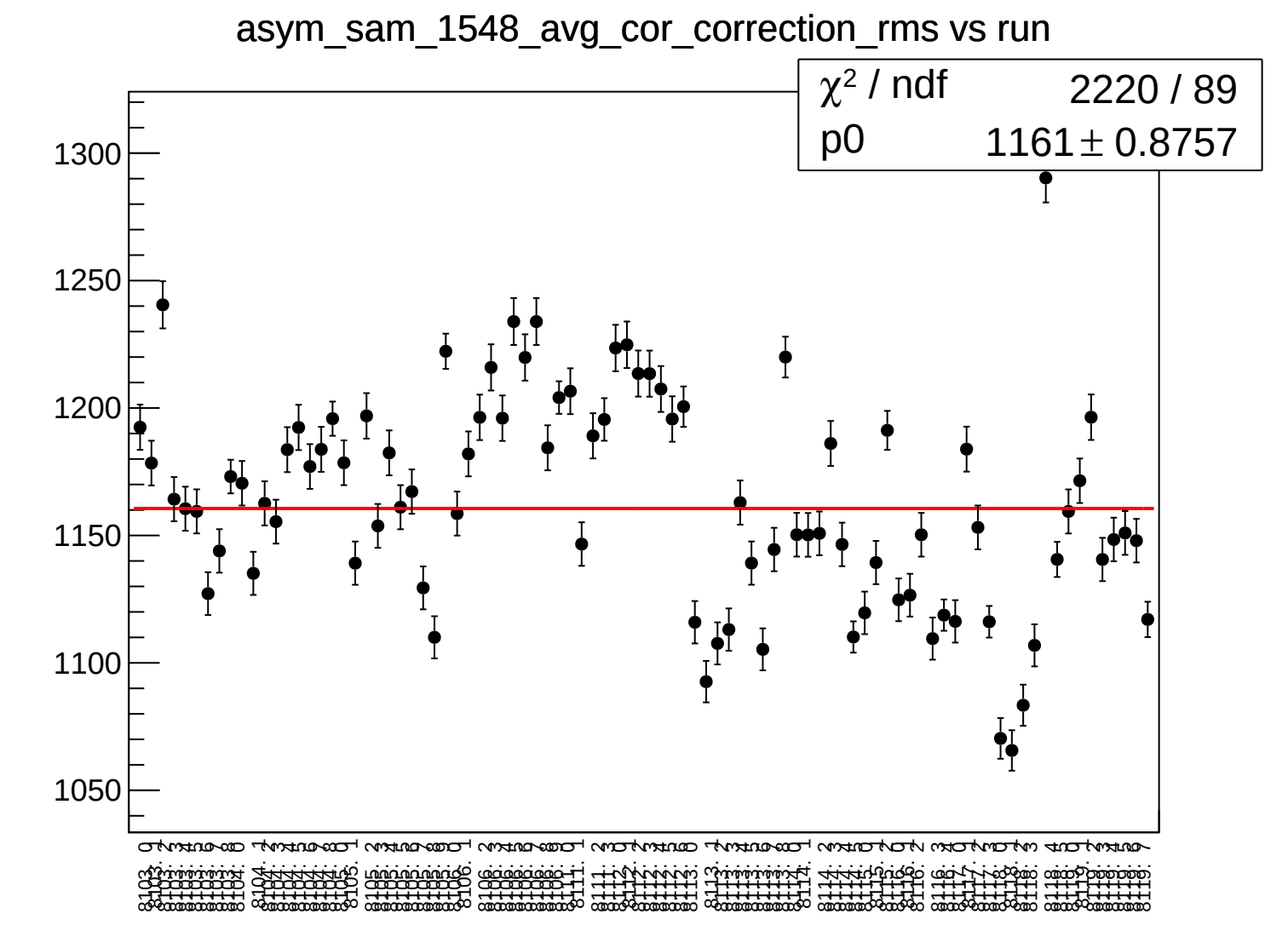

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 91.98 / 89
p0 −1.206 ± 110.4
pull
Entries 90
Mean −430.9
Std Dev 0

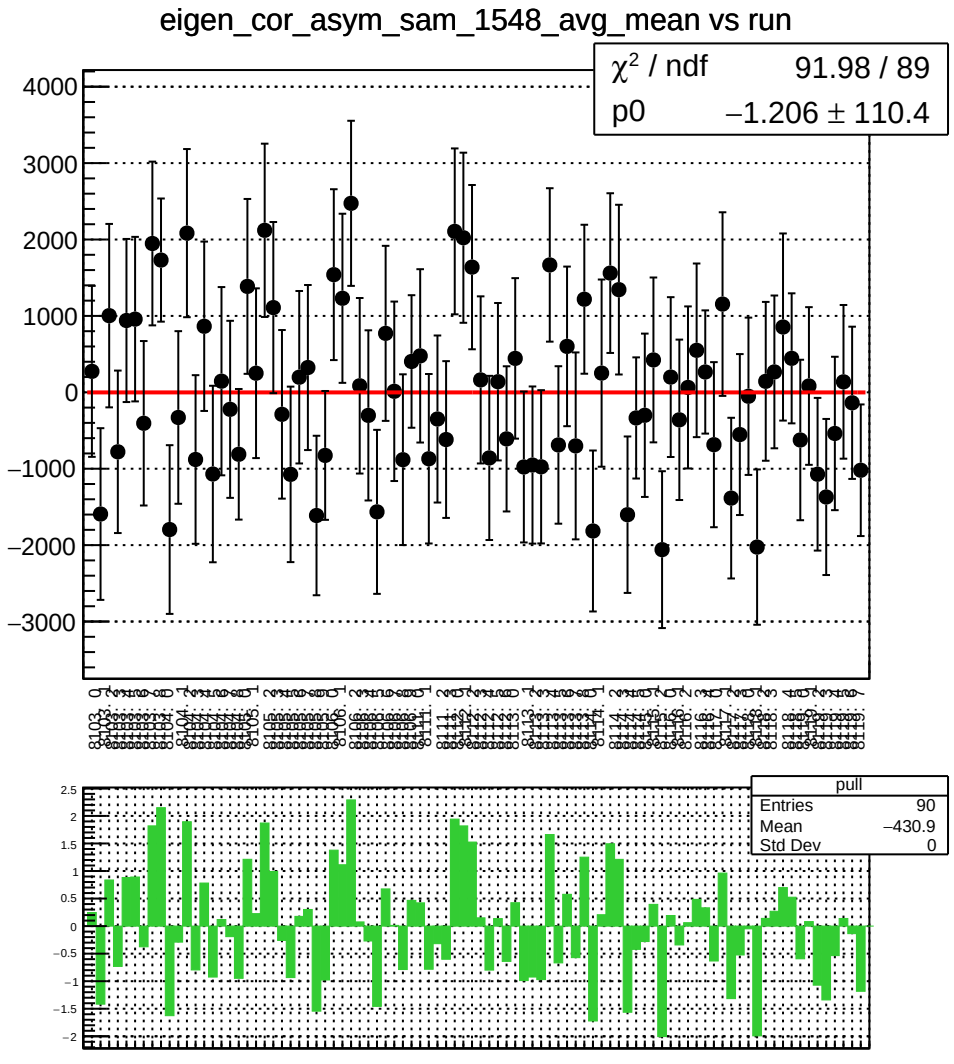

pull1D
Entries 90
Mean 0.01113
Std Dev 1.011

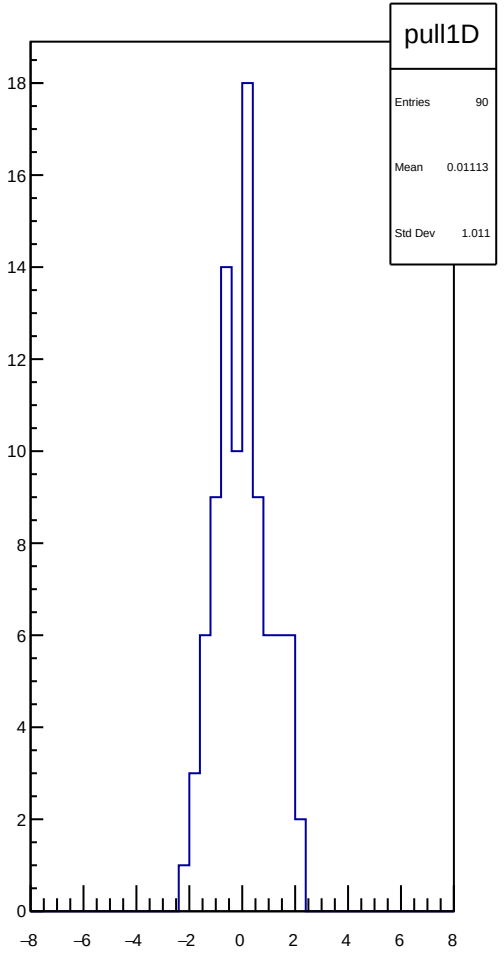

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6431 / 89
p0 103.4 ± 0.07809
130
120
110
100
90

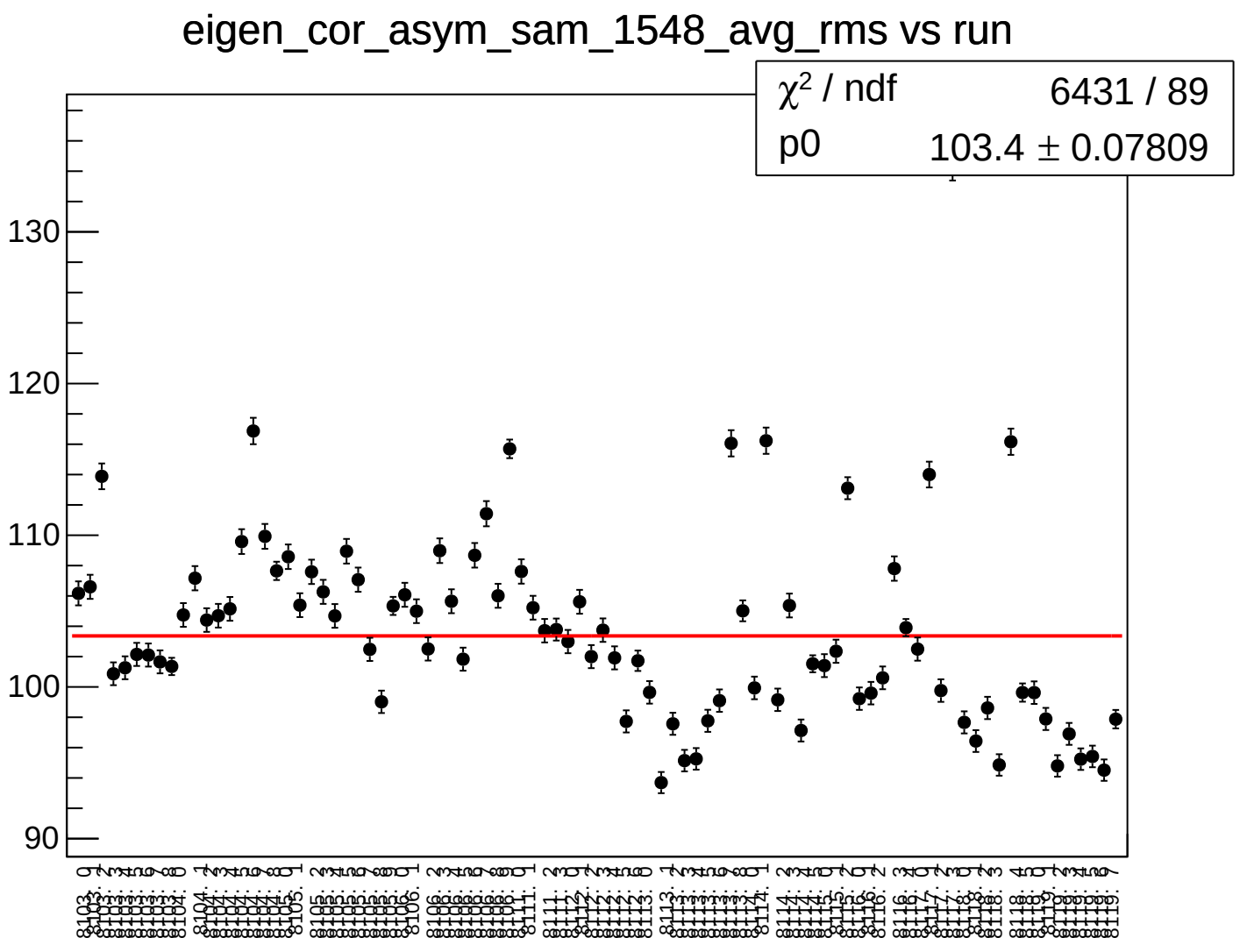

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 102.9 / 89
p0 −2197 ± 1238
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −489.5
Std Dev 0
2
1
0
−1
−2
−3

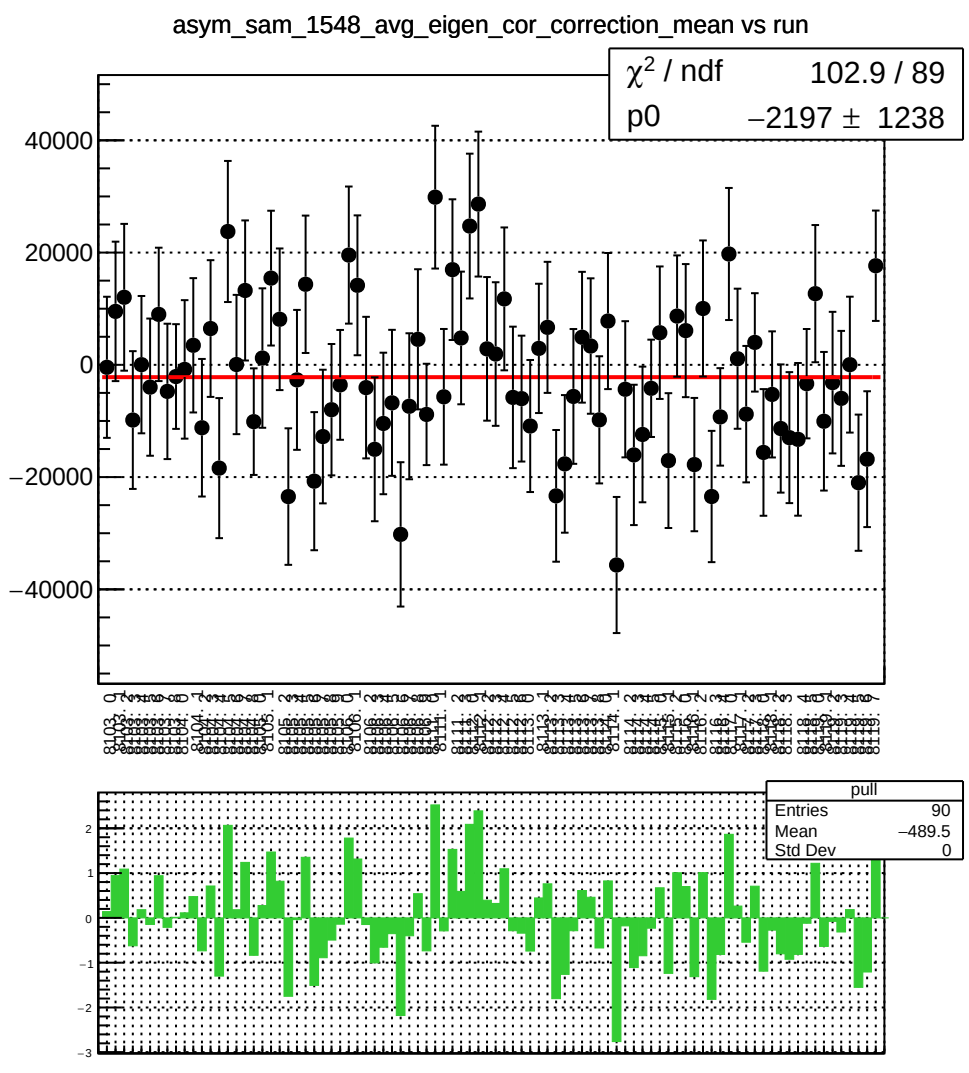

pull1D
Entries 90
Mean 0.008372
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

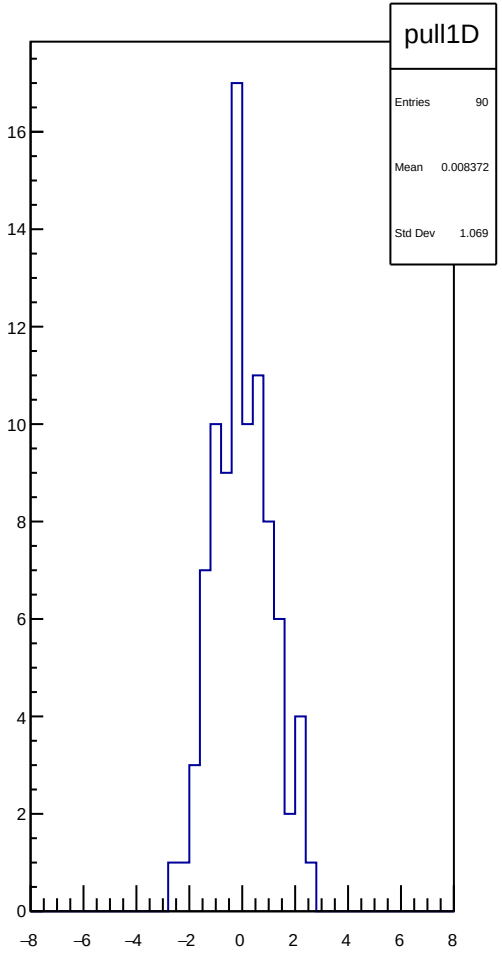

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 2220 / 89
p0 1161 ± 0.8757
1300
1250
1200
1150
1100
1050

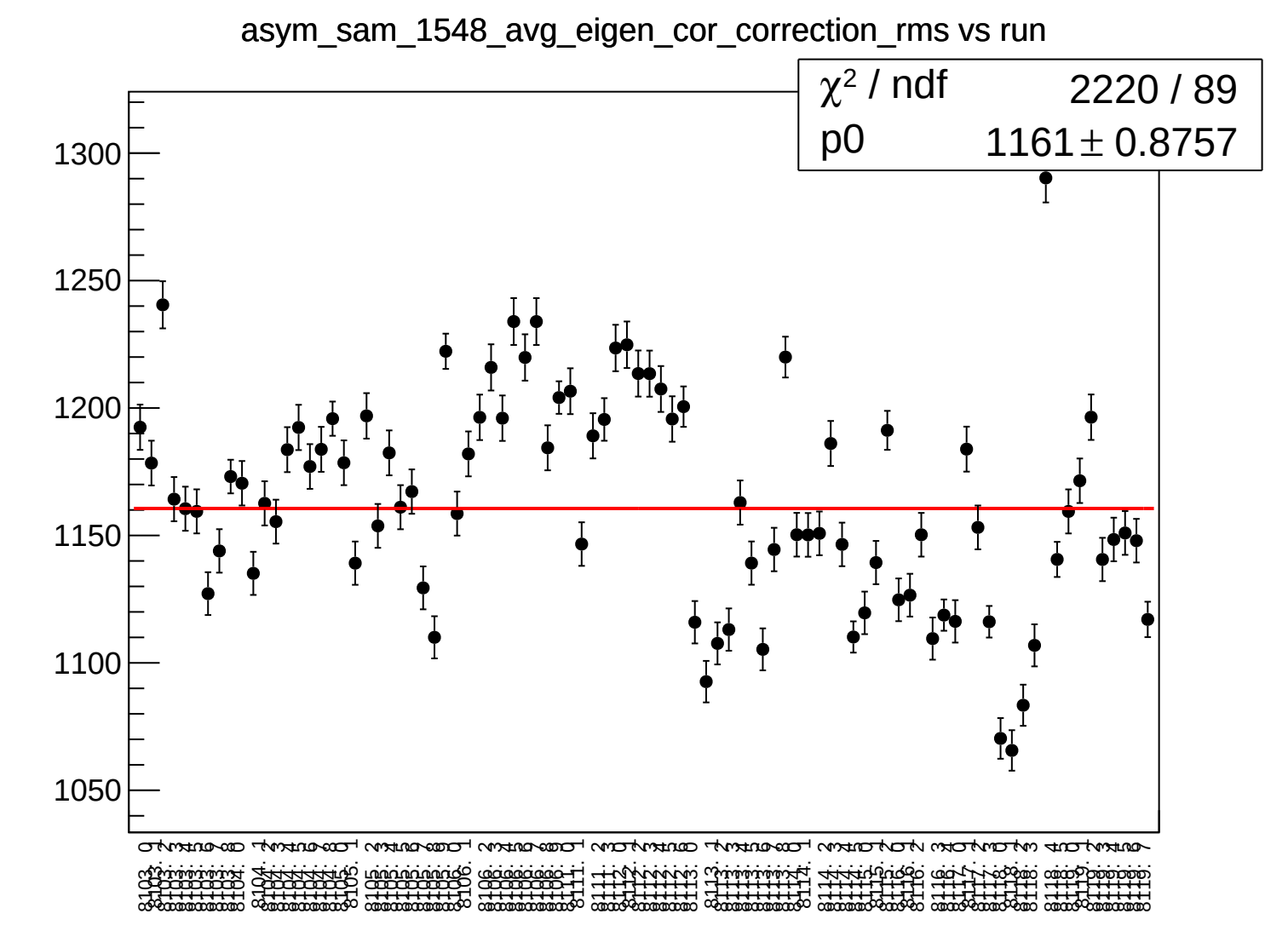

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 91.98 / 89
p0 −1.206 ± 110.4
pull
Entries 90
Mean −430.9
Std Dev 0

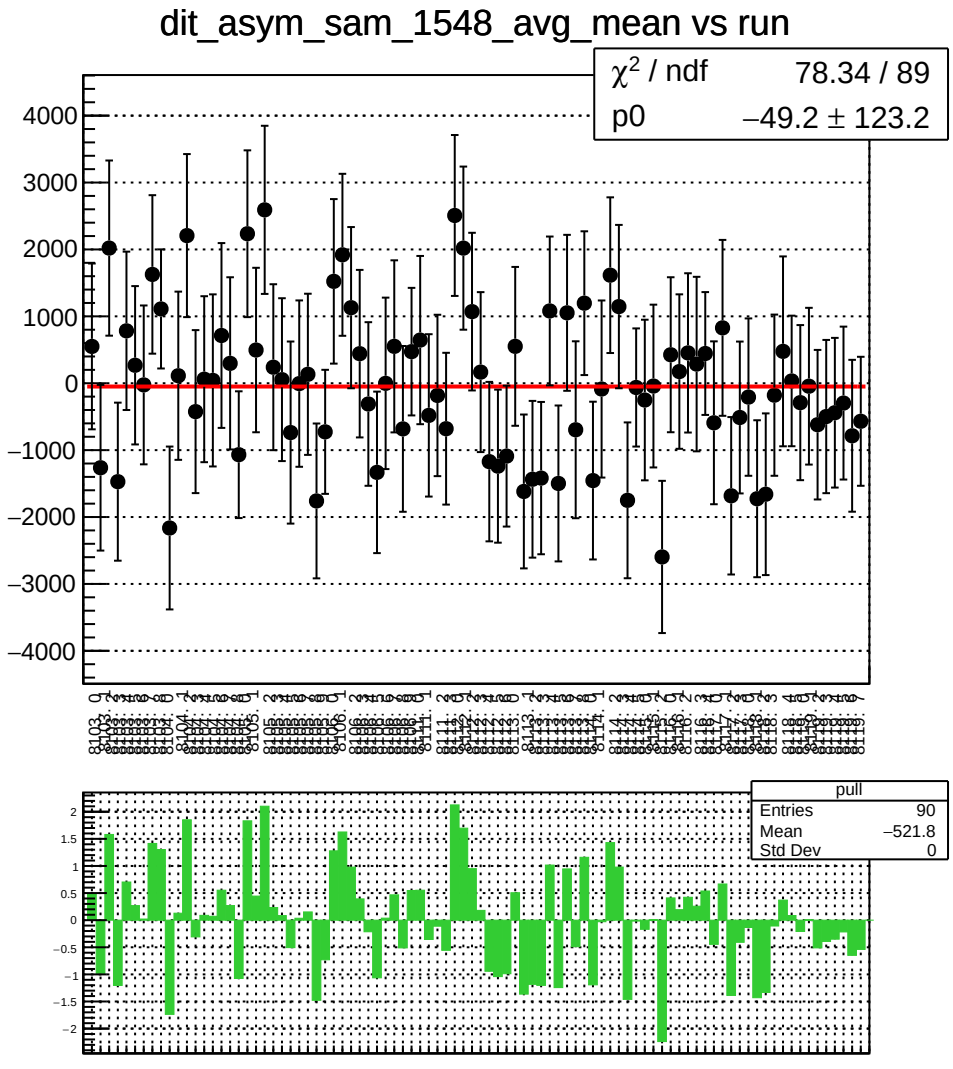

pull1D
Entries 90
Mean 0.01113
Std Dev 1.011

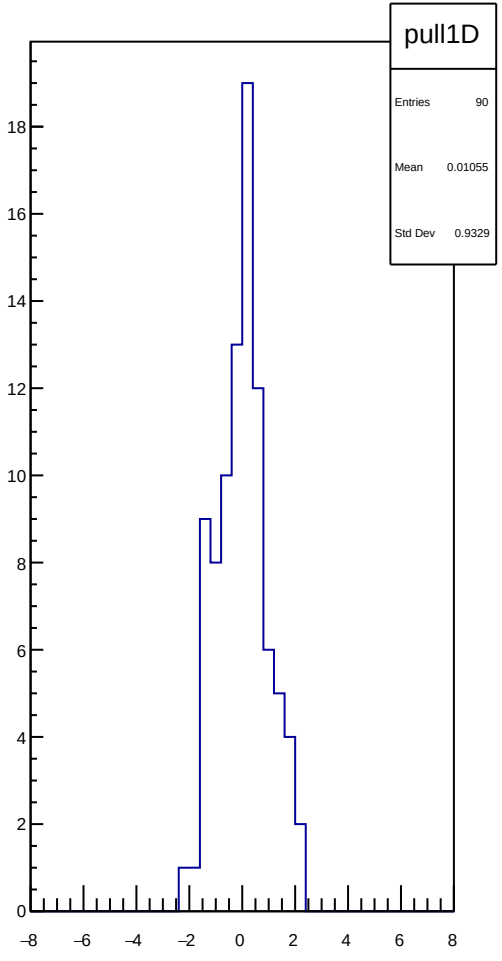

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 6431 / 89
p0 103.4 ± 0.07809
130
120
110
100
90

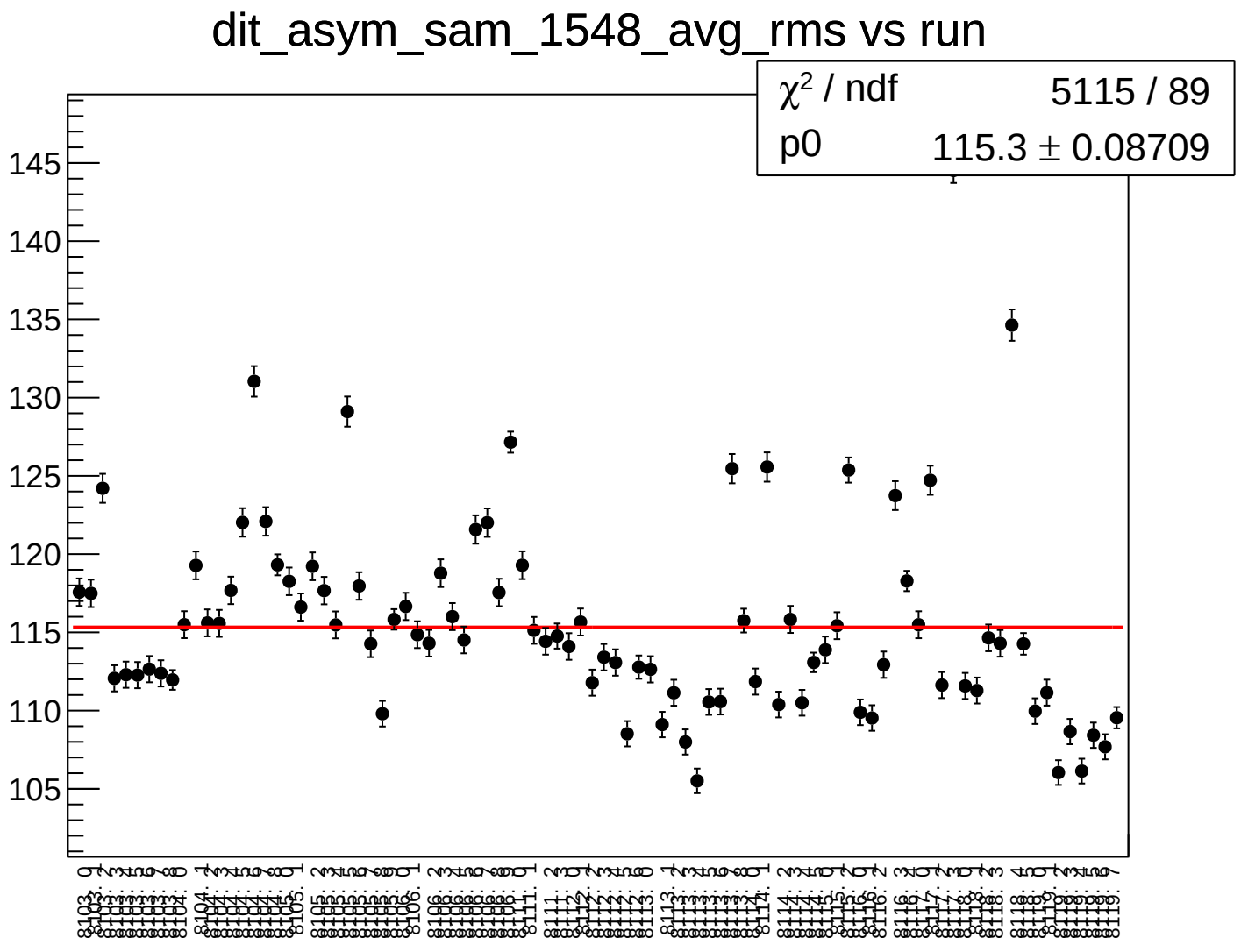

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.9 / 89
p0 −2197 ± 1238
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −489.5
Std Dev 0
2
1
0
−1
−2
−3

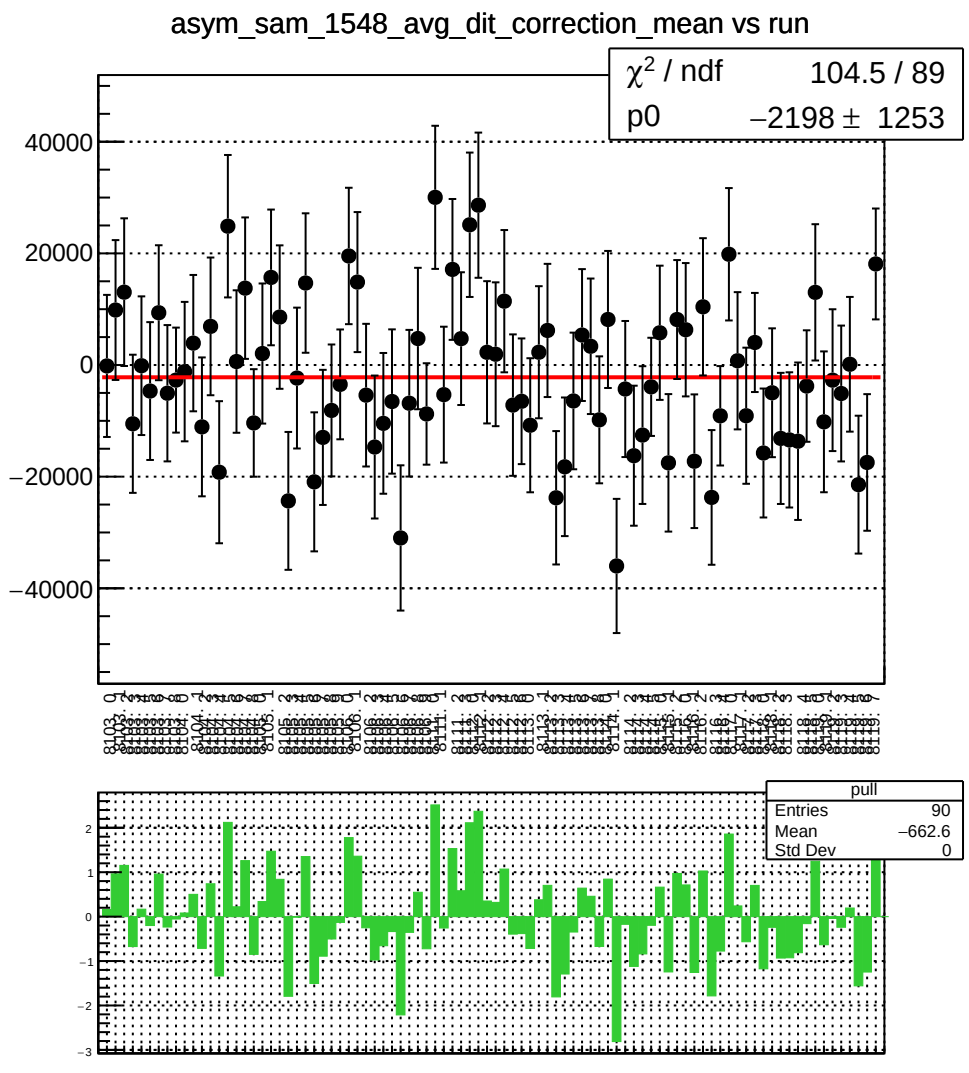

pull1D
Entries 90
Mean 0.008372
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

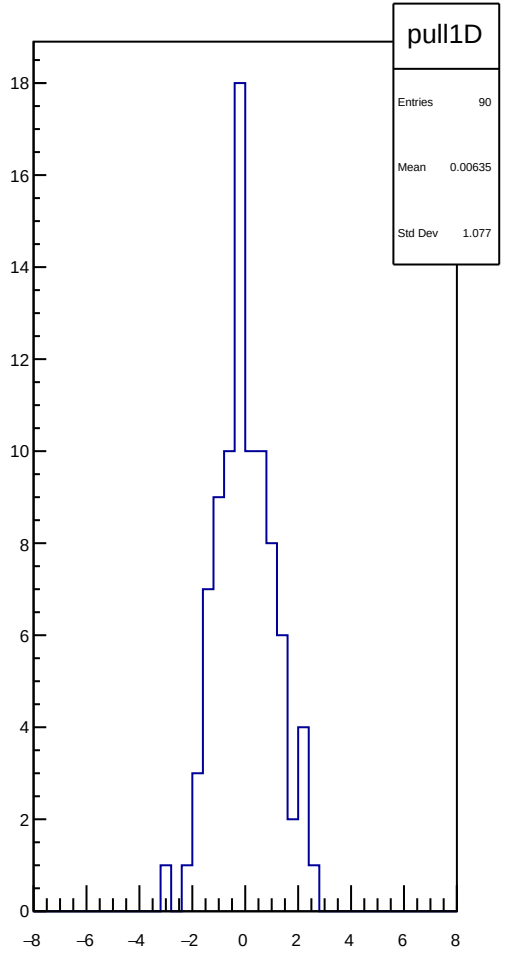

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2220 / 89
p0 1161 ± 0.8757
1300
1250
1200
1150
1100
1050

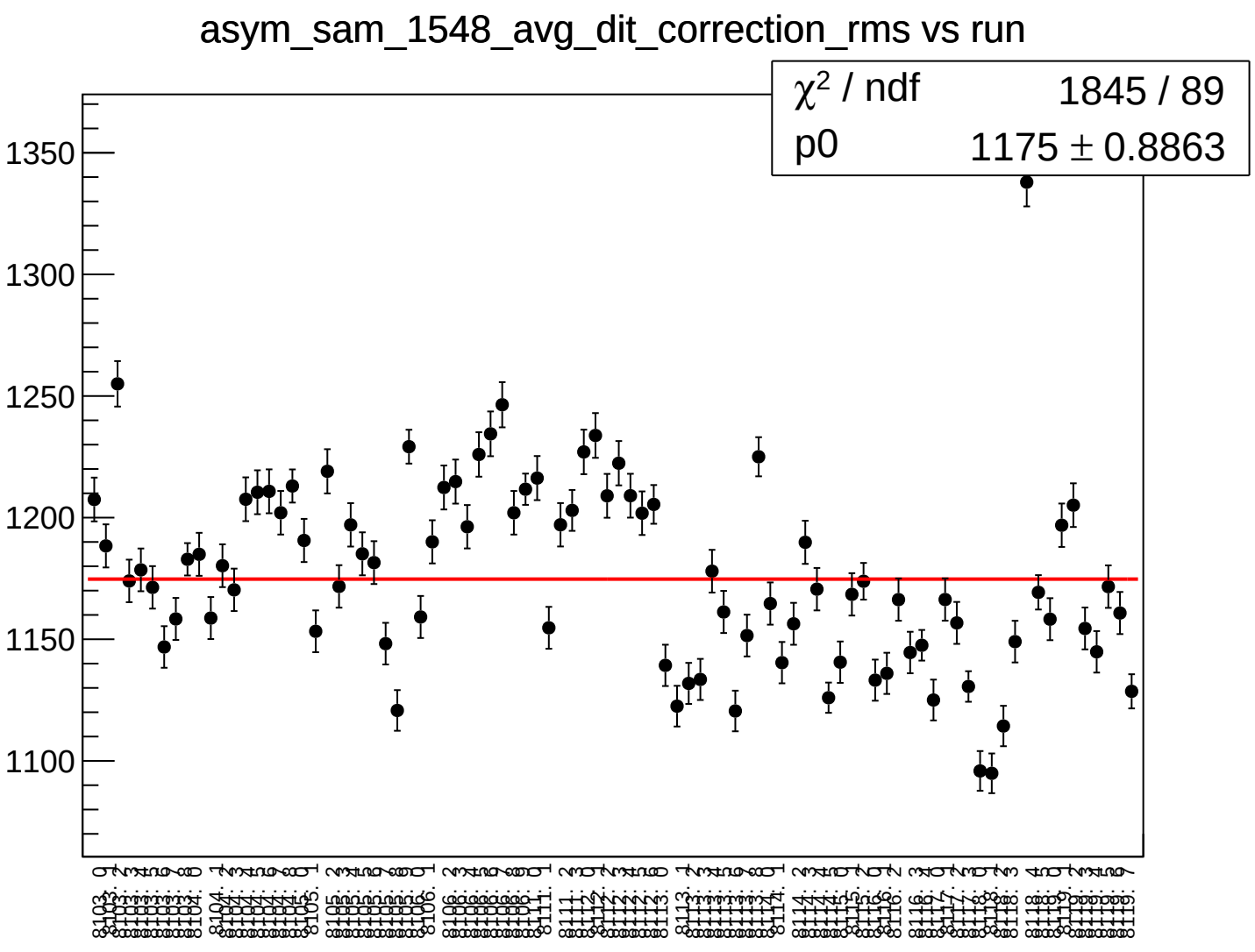

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 78.34 / 89
p0 –49.2 ± 123.2
pull
Entries 90
Mean –521.8
Std Dev 0

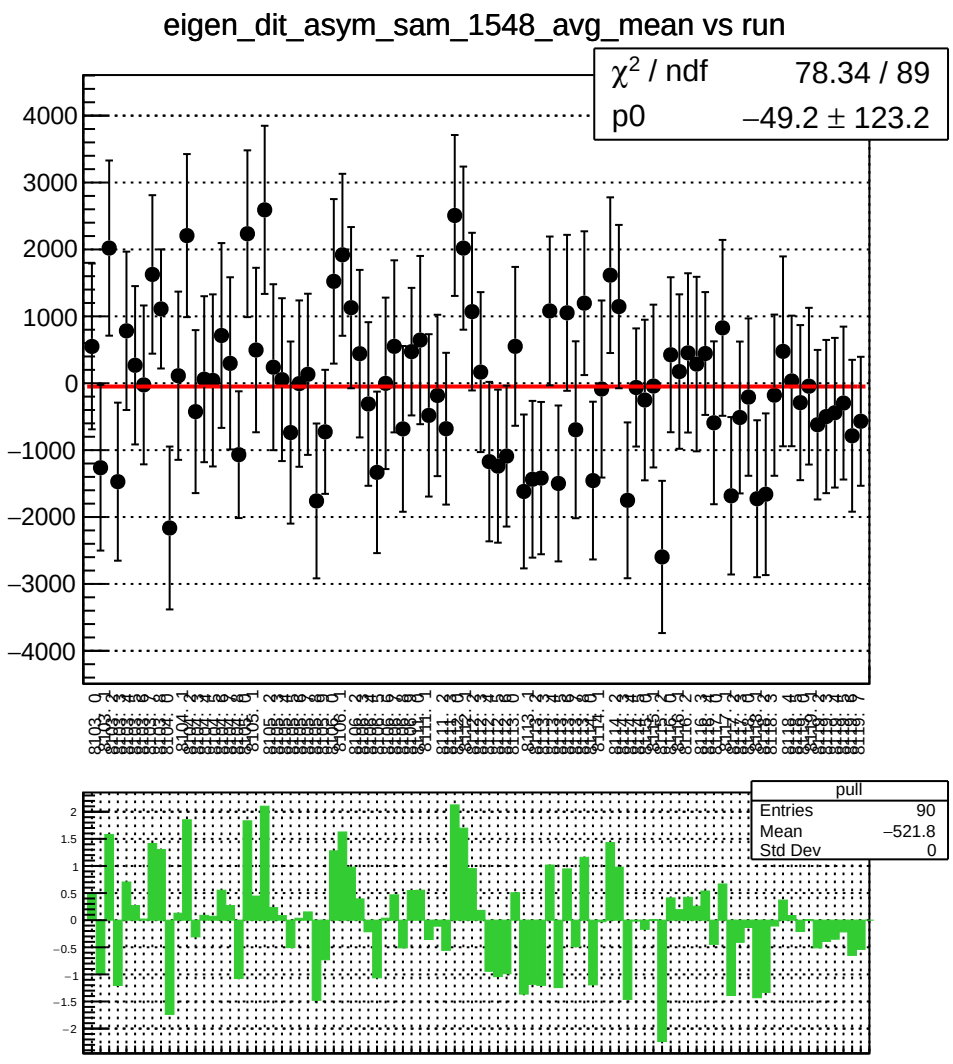

pull1D
Entries 90
Mean 0.01055
Std Dev 0.9329

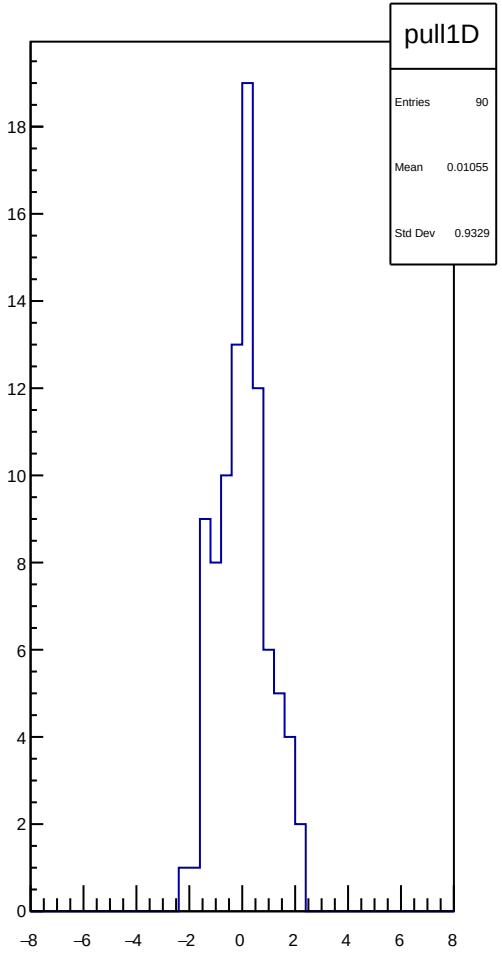

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 5115 / 89
p0 115.3 ± 0.08709
145
140
135
130
125
120
115
110
105

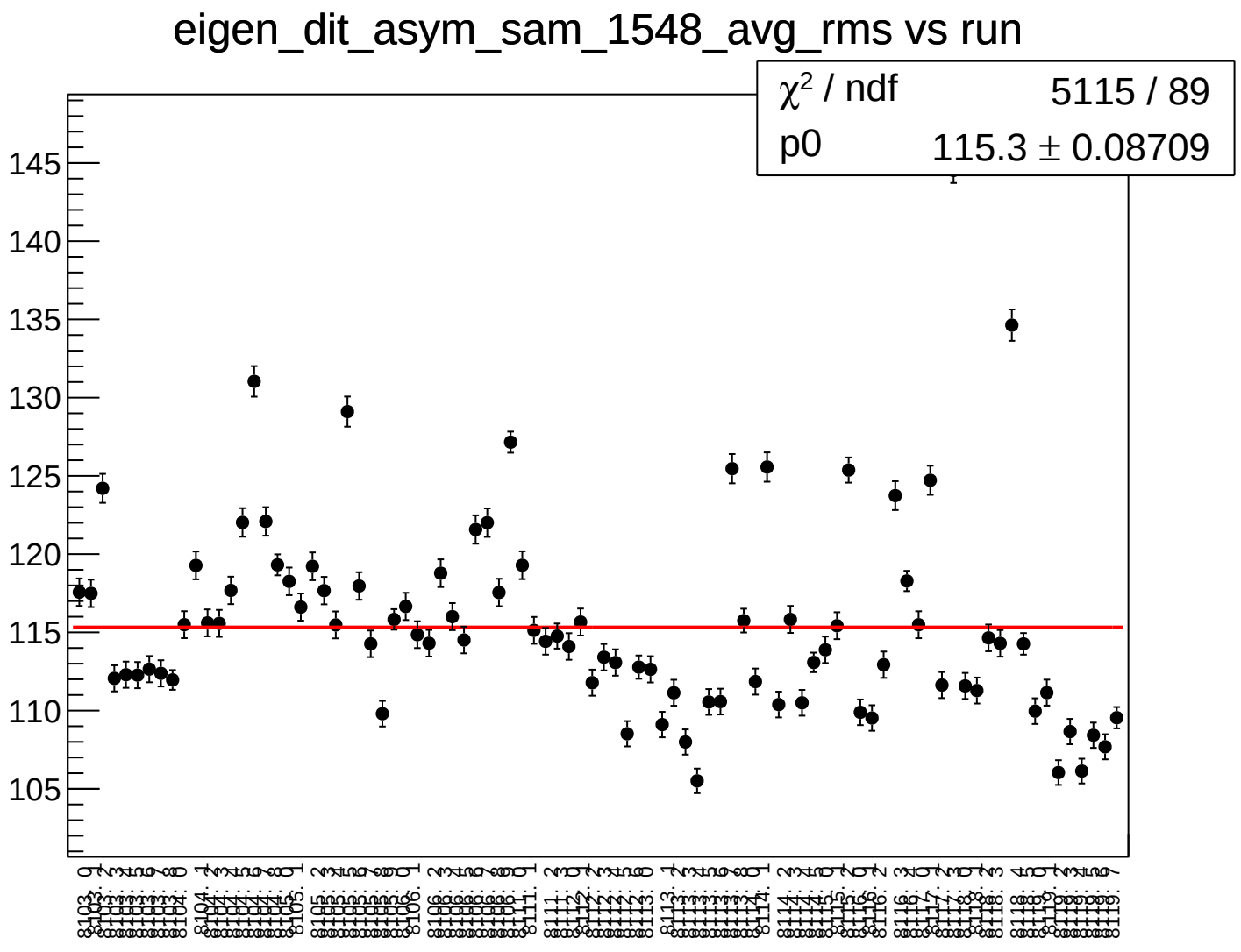

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 104.5 / 89
p0 −2198 ± 1253
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −662.6
Std Dev 0
2
1
0
−1
−2
−3

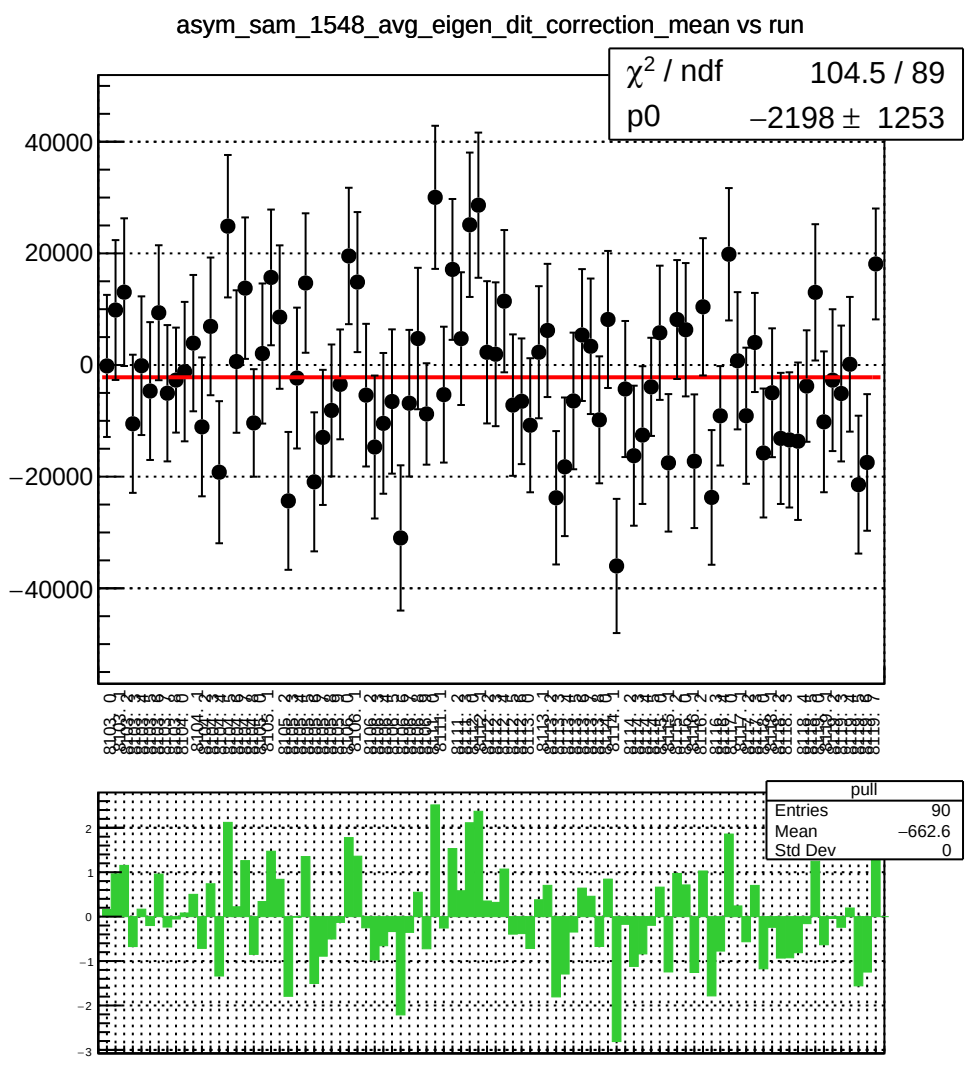

pull1D
Entries 90
Mean 0.00635
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

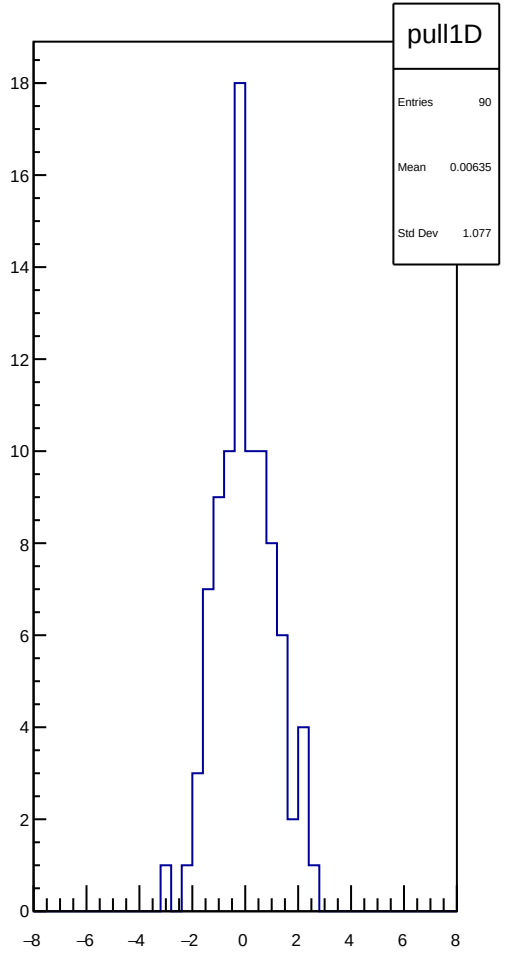

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1845 / 89
p0 1175 ± 0.8863
1350
1300
1250
1200
1150
1100

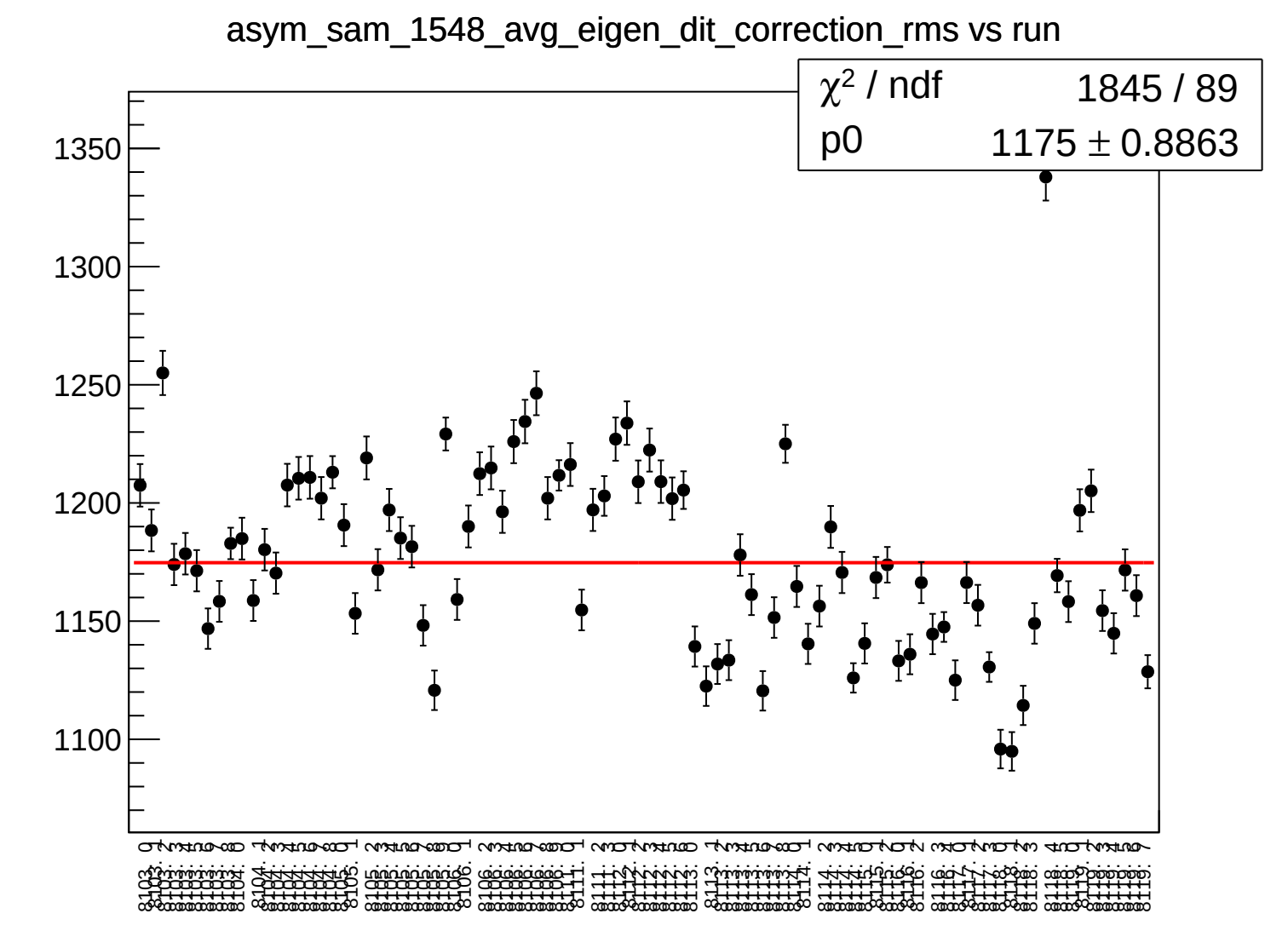

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 78.34 / 89
p0 −49.2 ± 123.2
pull
Entries 90
Mean −521.8
Std Dev 0

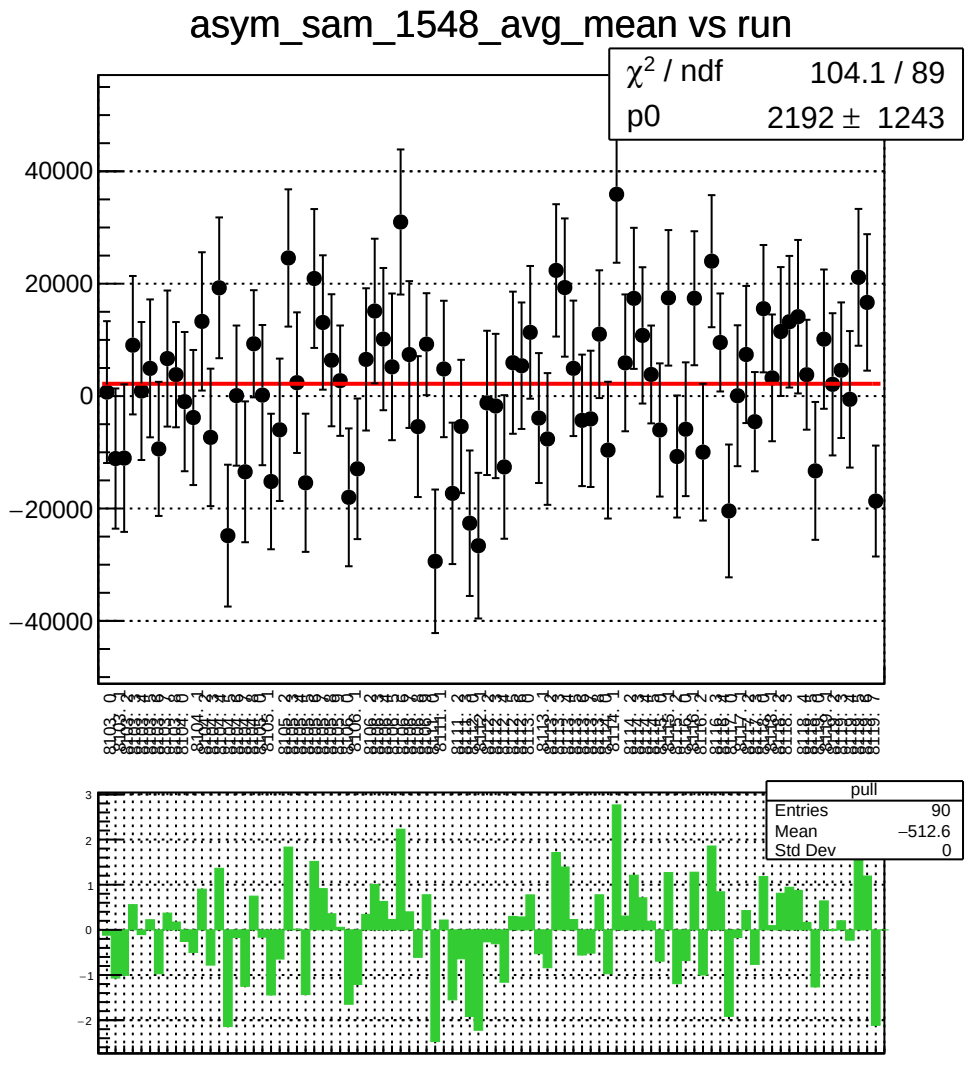

pull1D
Entries 90
Mean 0.01055
Std Dev 0.9329

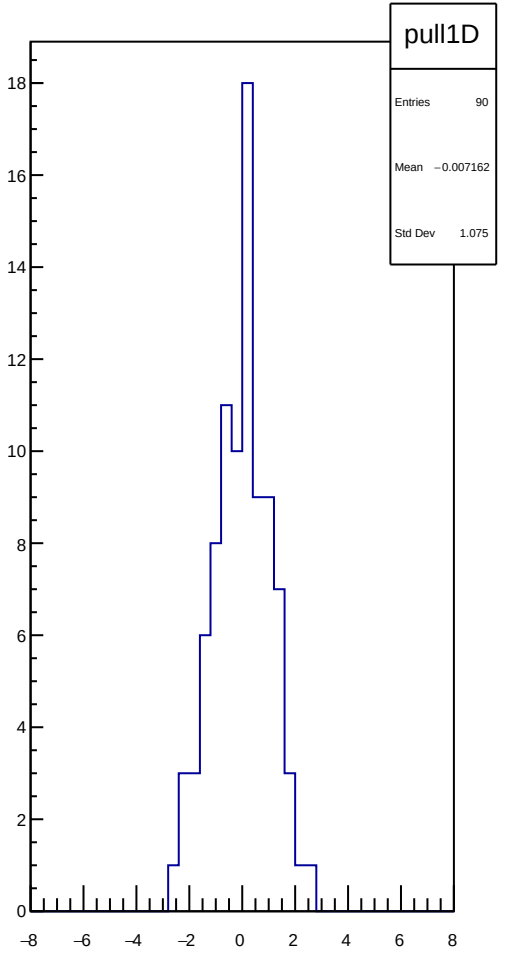

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5115 / 89
p0 115.3 ± 0.08709
145
140
135
130
125
120
115
110
105

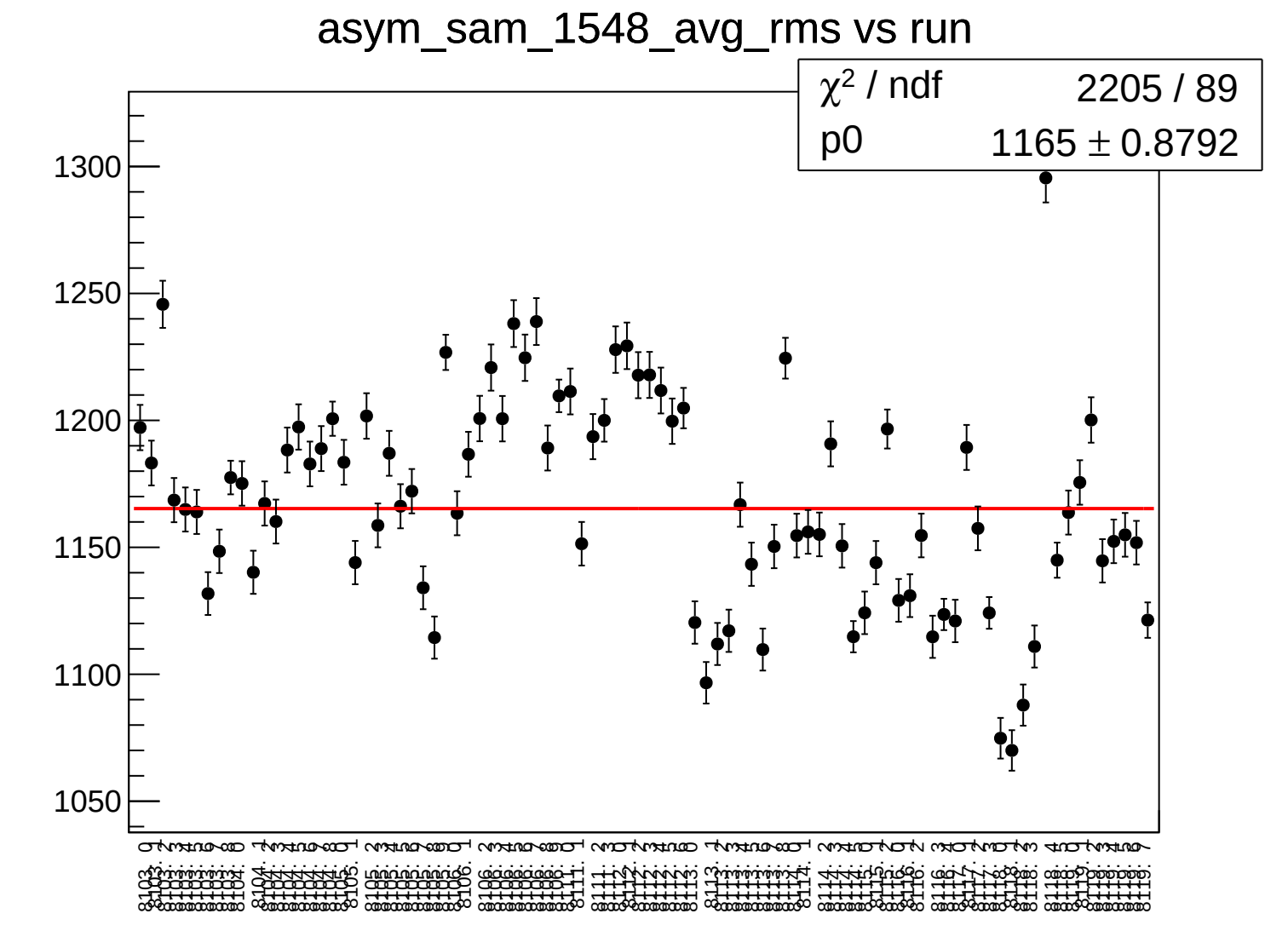

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 104.5 / 89
p0 −2198 ± 1253
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −662.6
Std Dev 0
2
1
0
−1
−2
−3

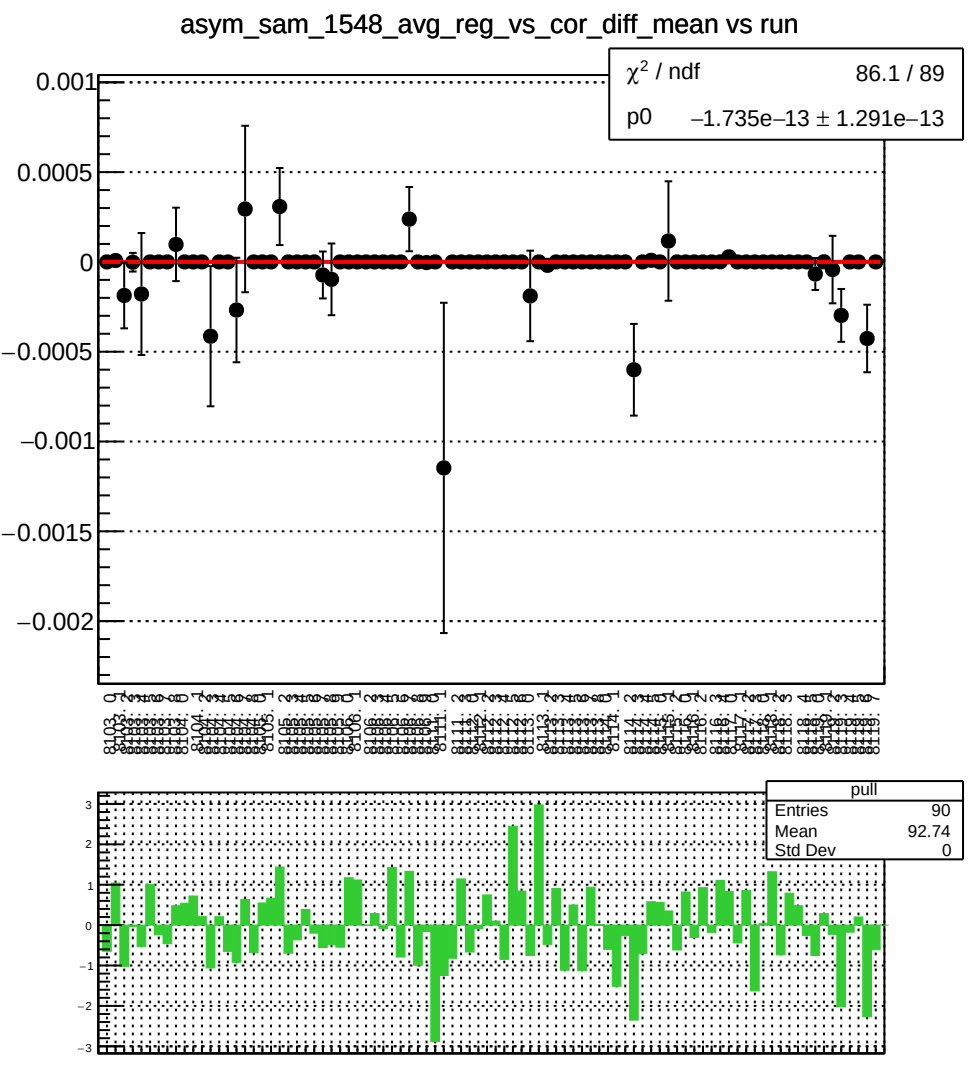

pull1D
Entries 90
Mean 0.00635
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

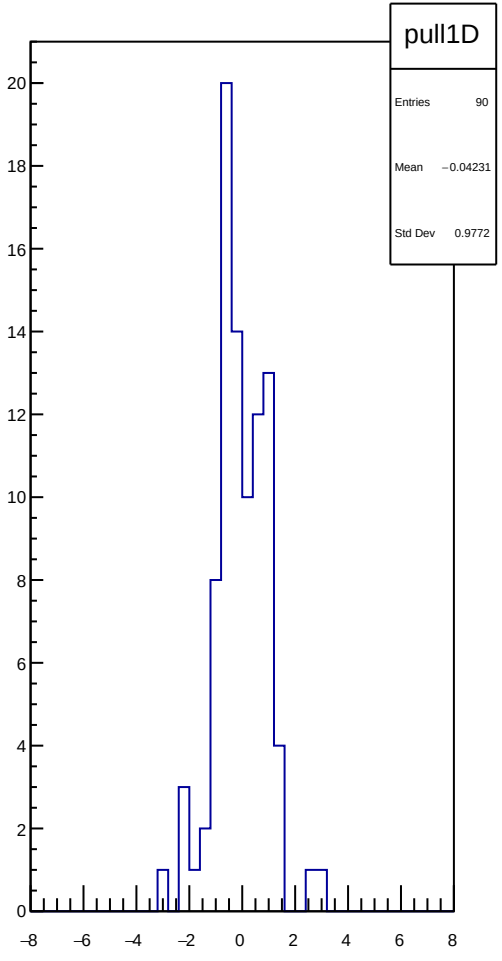

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1845 / 89
p0 1175 ± 0.8863
1350
1300
1250
1200
1150
1100

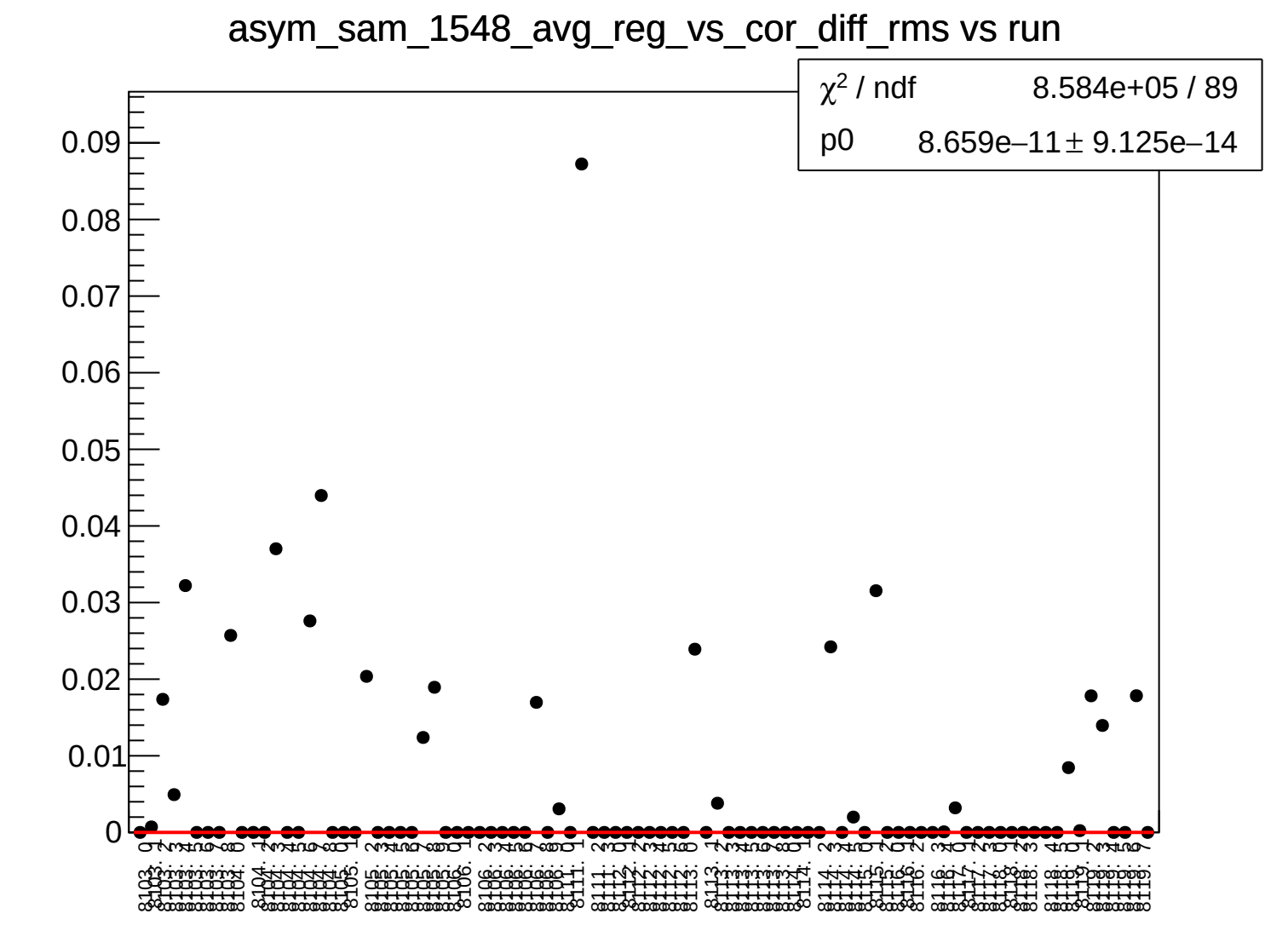

asym_sam_1548_avg_mean vs run
χ² / ndf 104.1 / 89
p0 2192 ± 1243
40000
20000
0
−20000
−40000
pull
Entries 90
Mean −512.6
Std Dev 0
3
2
1
0
−1
−2

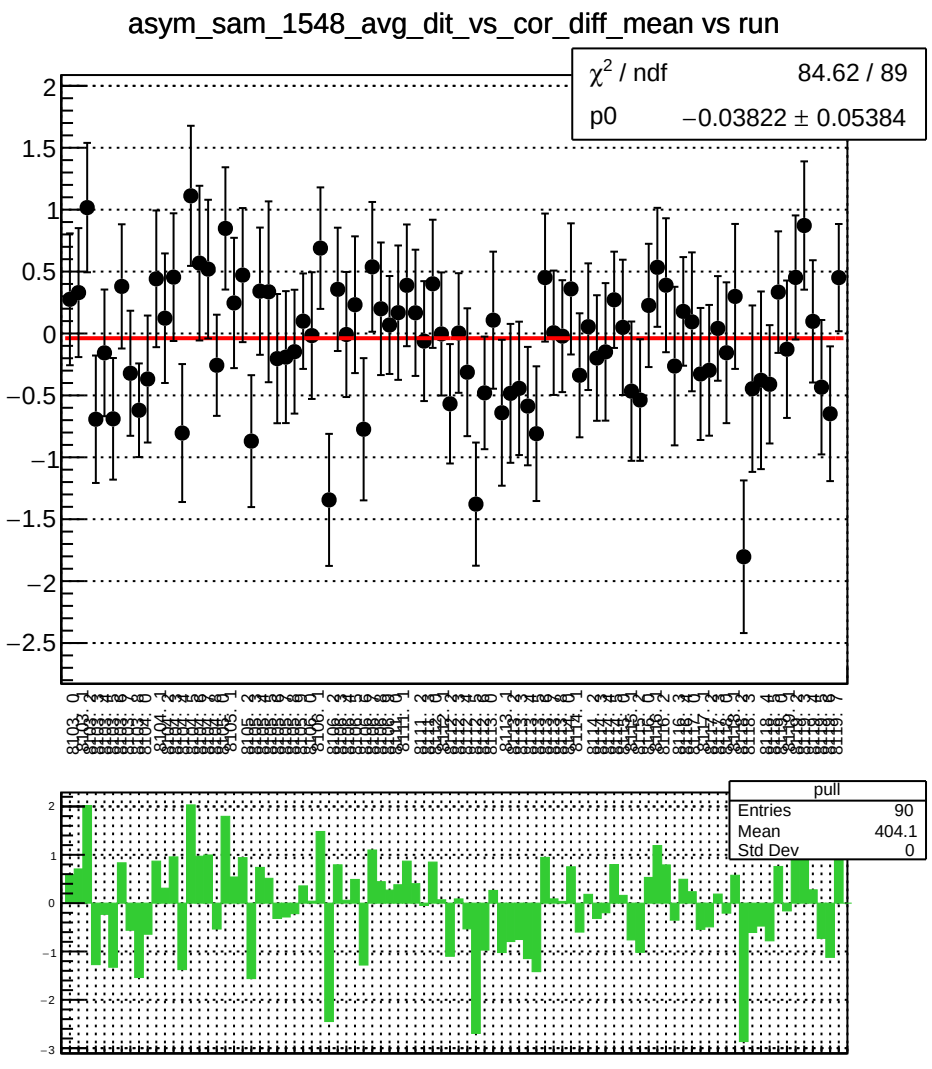

pull1D
Entries 90
Mean −0.007162
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

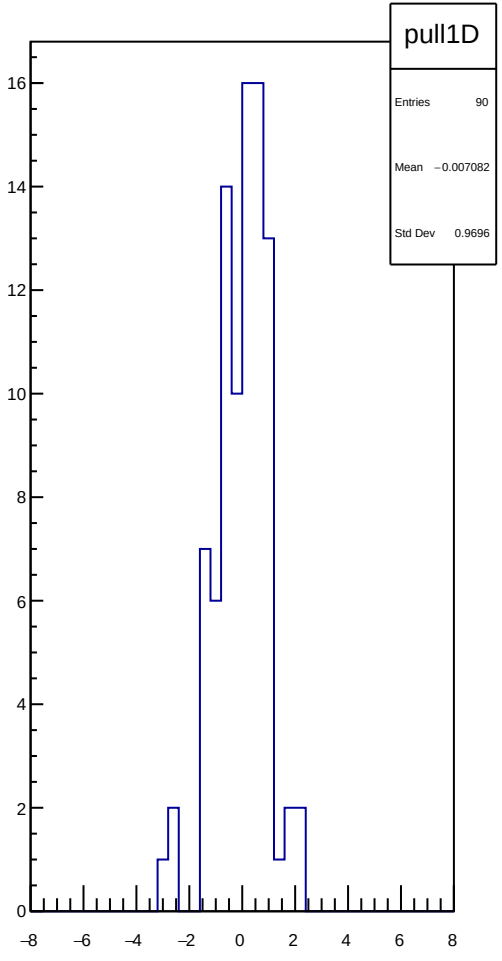

asym_sam_1548_avg_rms vs run
χ² / ndf 2205 / 89
p0 1165 ± 0.8792
1300
1250
1200
1150
1100
1050

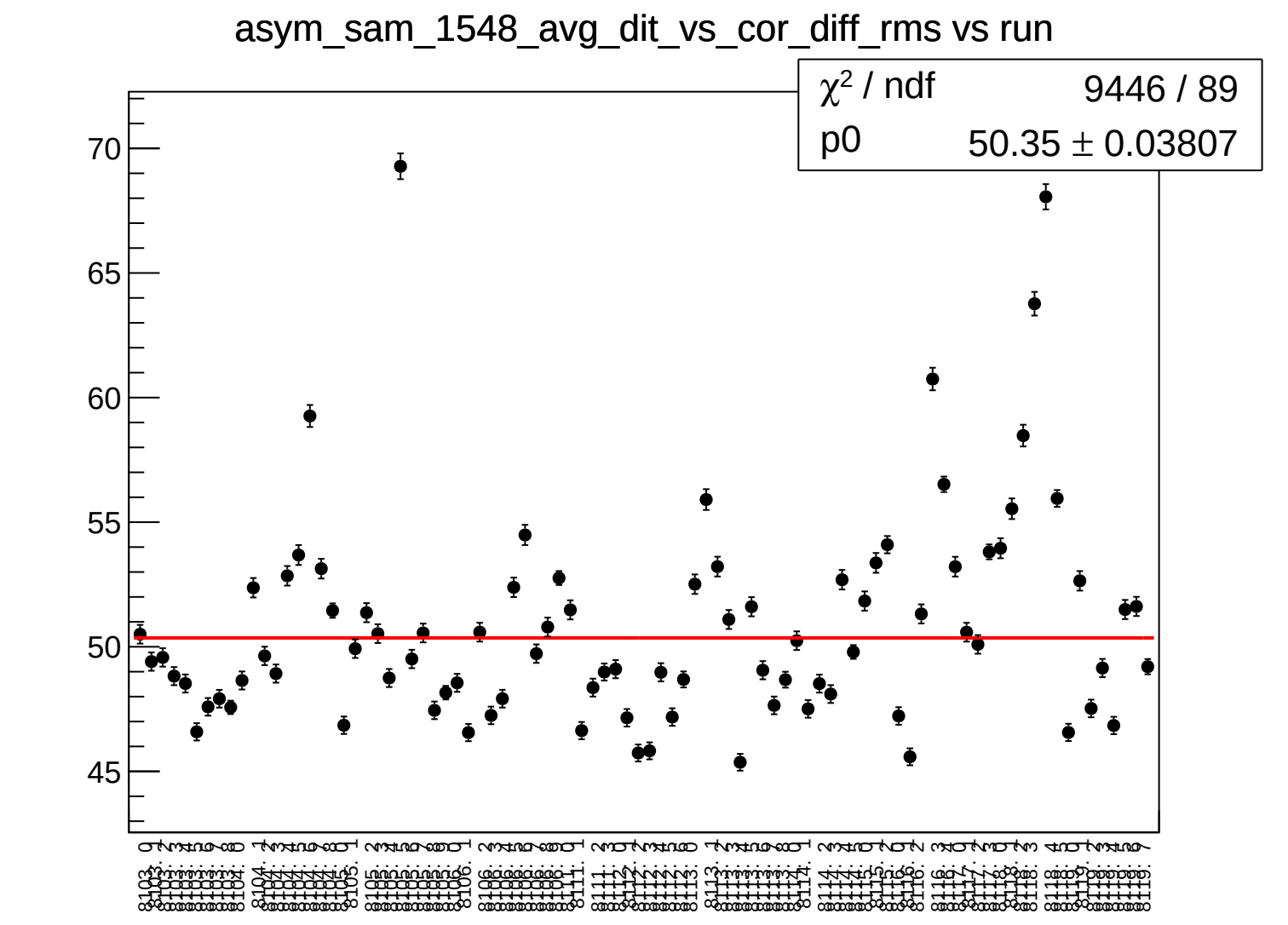

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.1 / 89
p0 −1.735e−13 ± 1.291e−13
pull
Entries 90
Mean 92.74
Std Dev 0

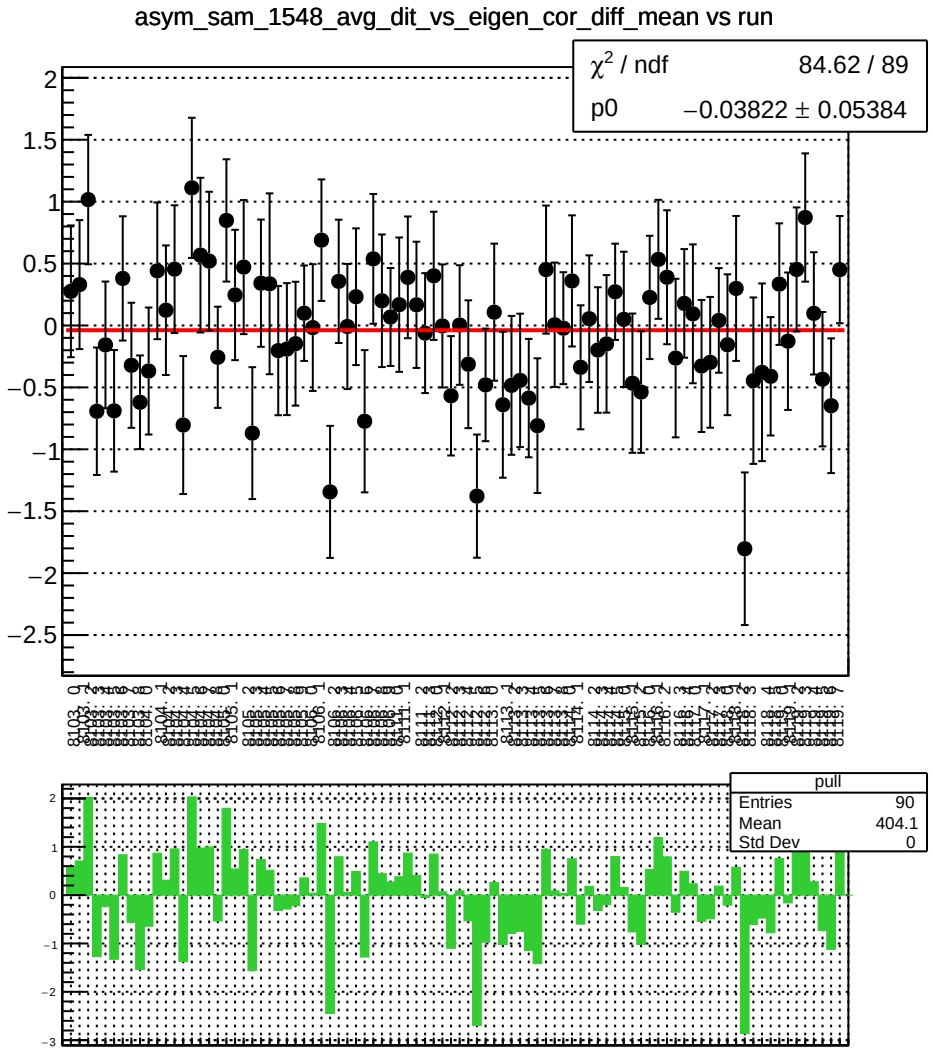

pull1D
Entries 90
Mean −0.04231
Std Dev 0.9772

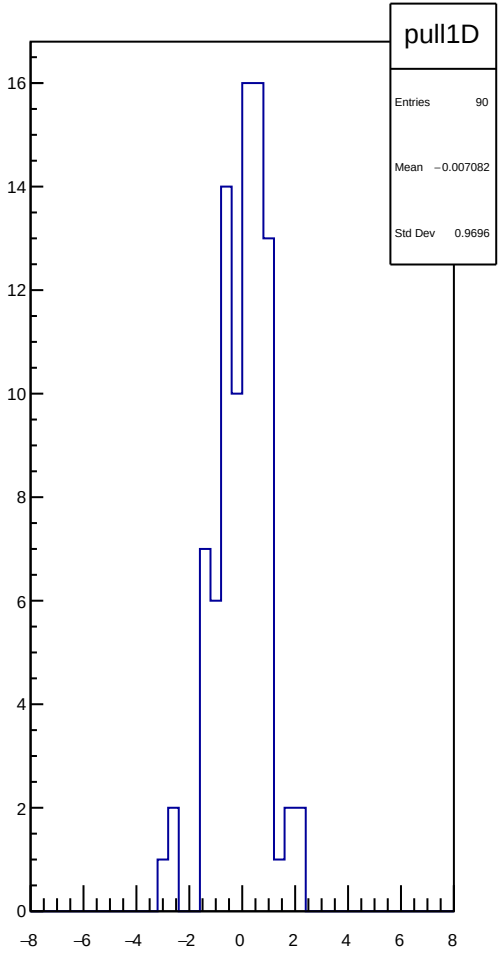

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.584e+05 / 89
p0 8.659e−11 ± 9.125e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

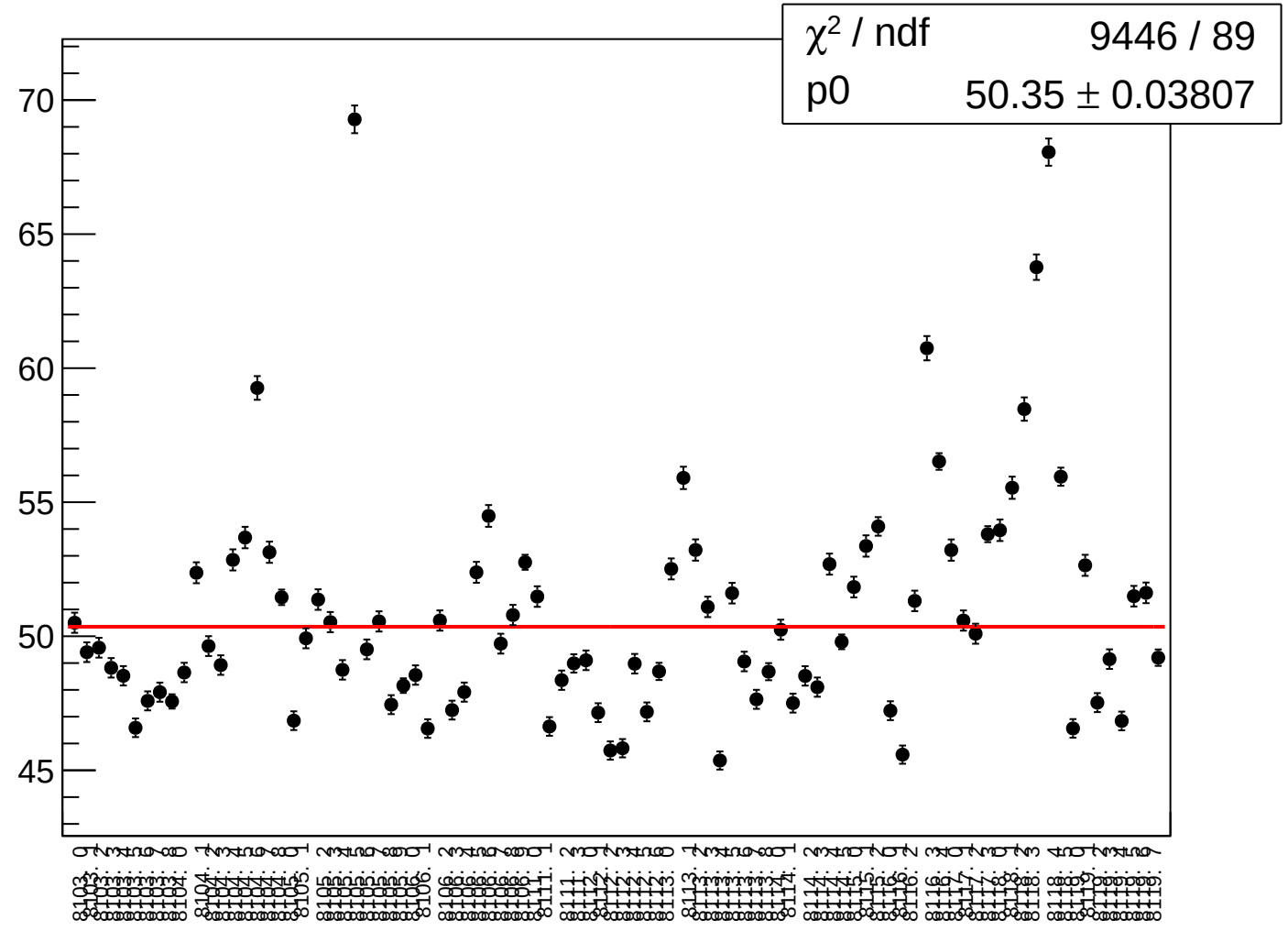

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.62 / 89
p0 −0.03822 ± 0.05384
pull
Entries 90
Mean 404.1
Std Dev 0

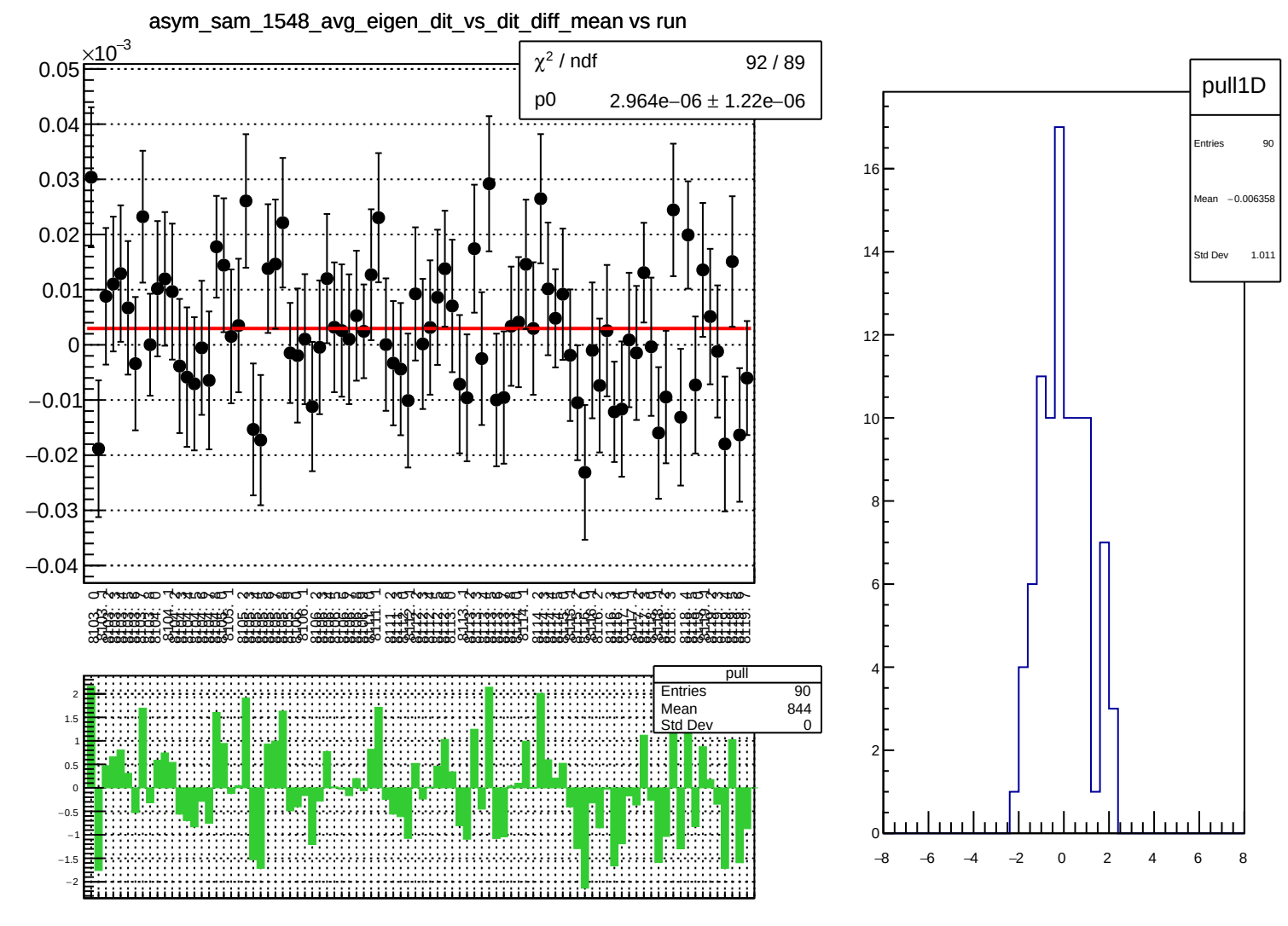

pull1D
Entries 90
Mean −0.007082
Std Dev 0.9696

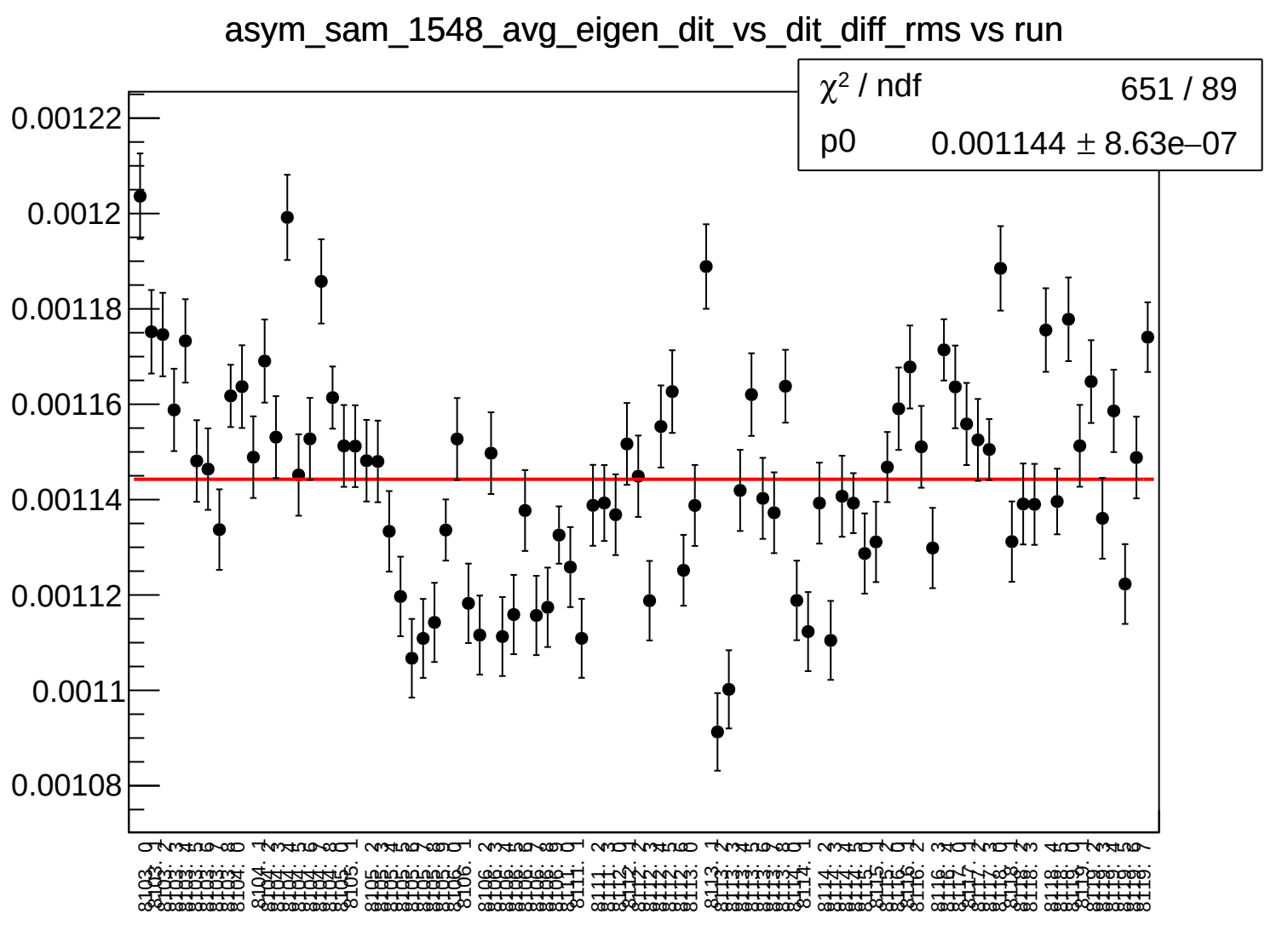

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9446 / 89
p0 50.35 ± 0.03807
70
65
60
55
50
45

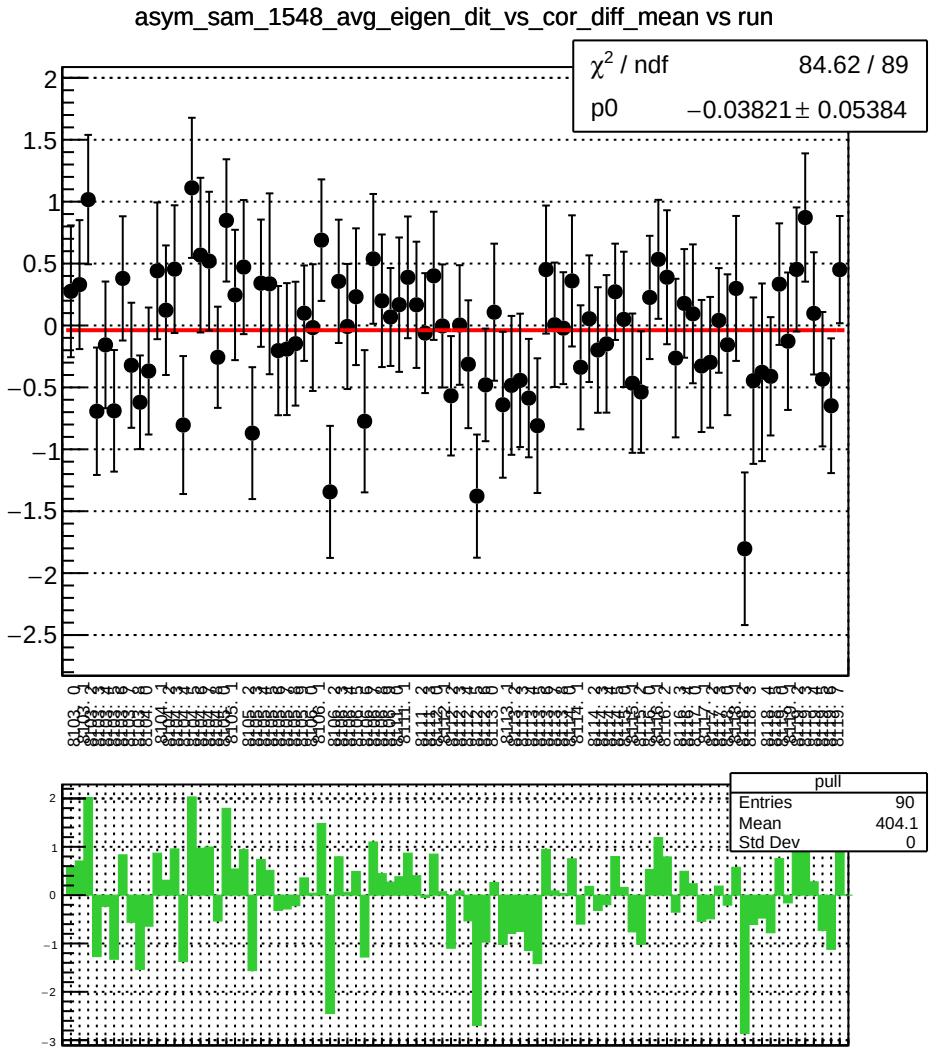

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.62 / 89
p0 −0.03822 ± 0.05384
pull
Entries 90
Mean 404.1
Std Dev 0

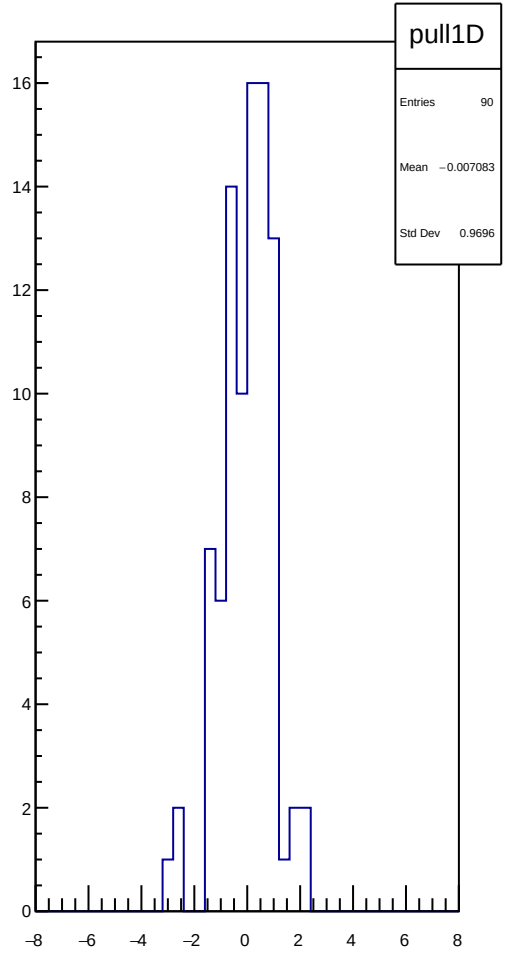

pull1D
Entries 90
Mean −0.007082
Std Dev 0.9696

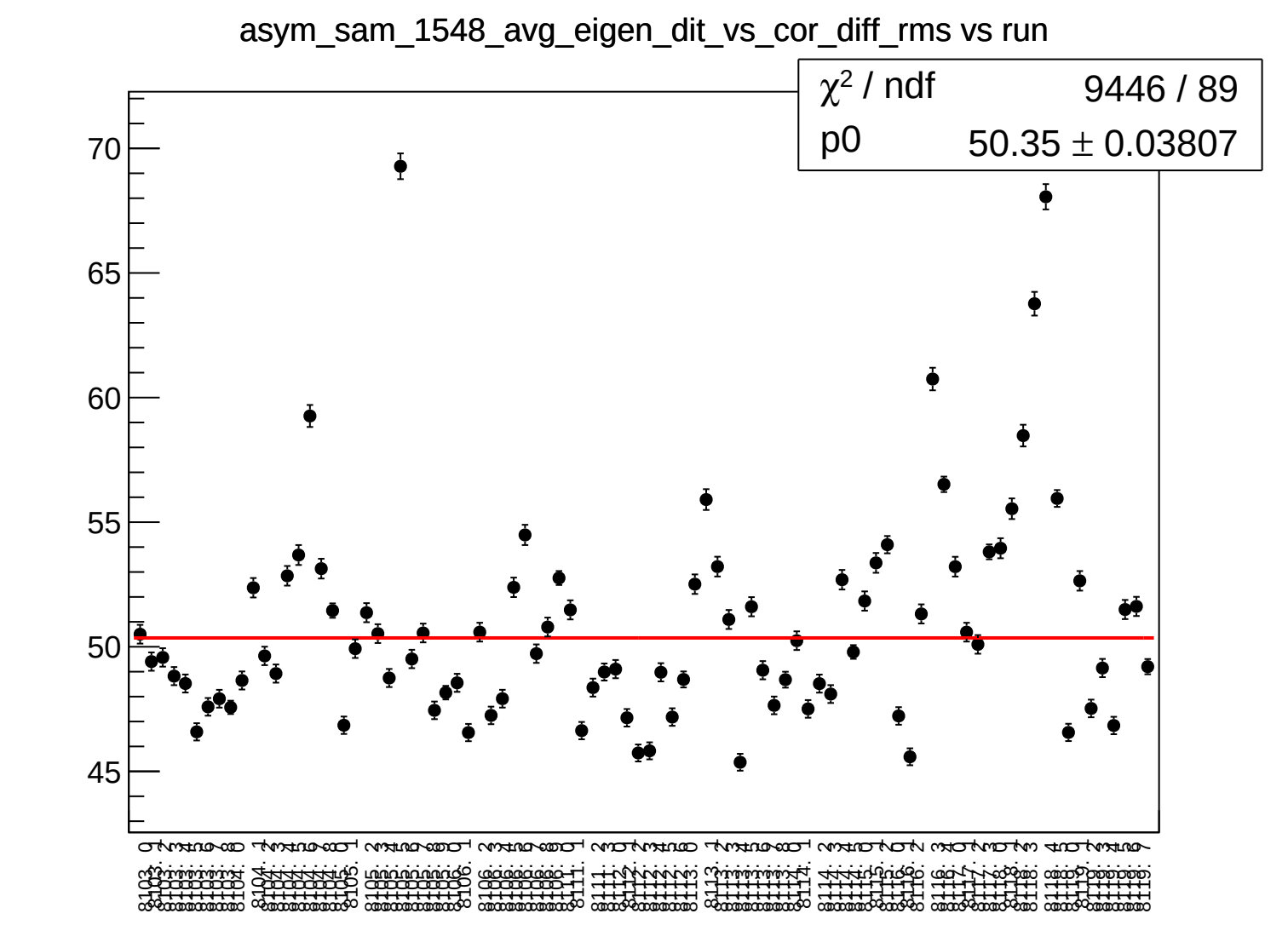

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9446 / 89
p0 50.35 ± 0.03807
70
65
60
55
50
45

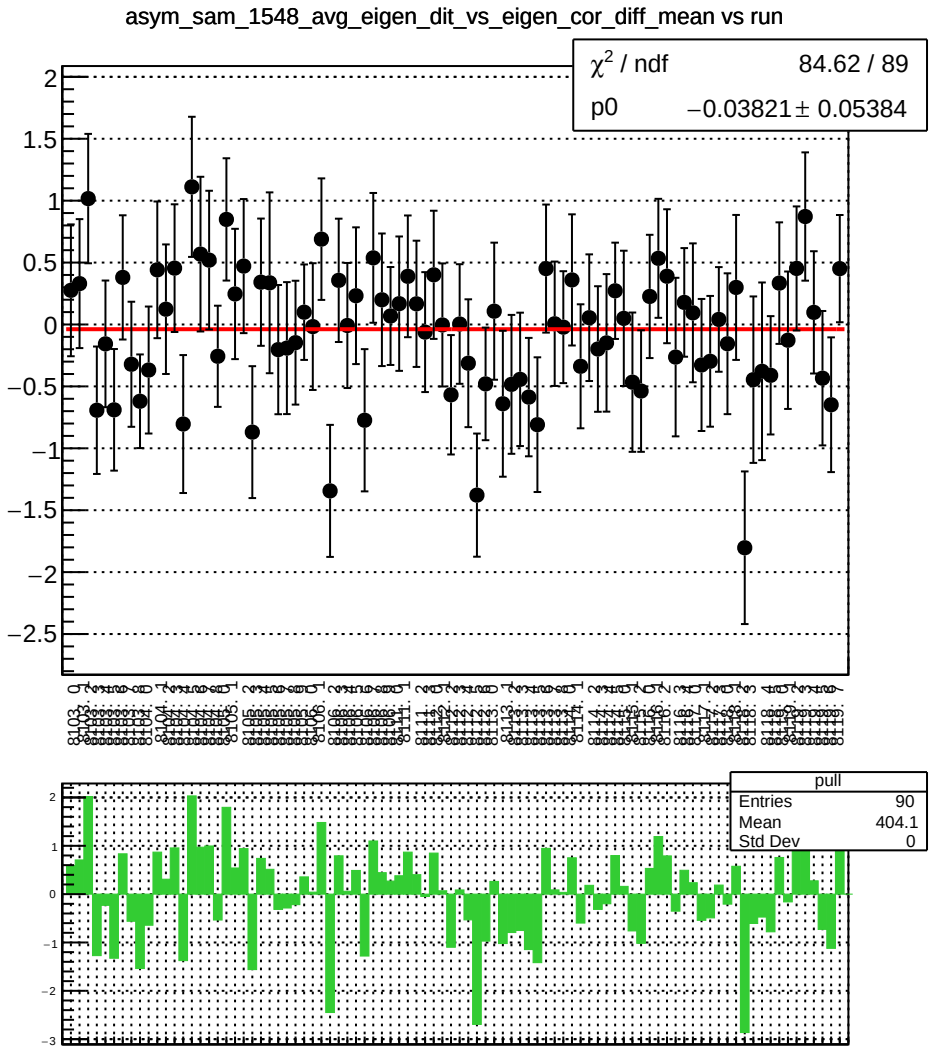

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92 / 89
p0 2.964e−06 ± 1.22e−06
pull
Entries 90
Mean 844
Std Dev 0
pull1D
Entries 90
Mean −0.006358
Std Dev 1.011

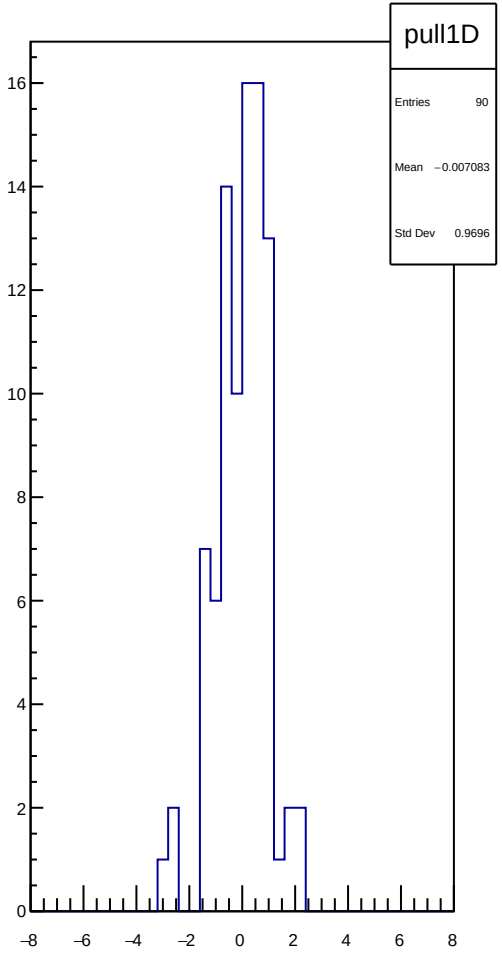

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 651 / 89
p0 0.001144 ± 8.63e–07
0.00122
0.0012
0.00118
0.00116
0.00114
0.00112
0.0011
0.00108

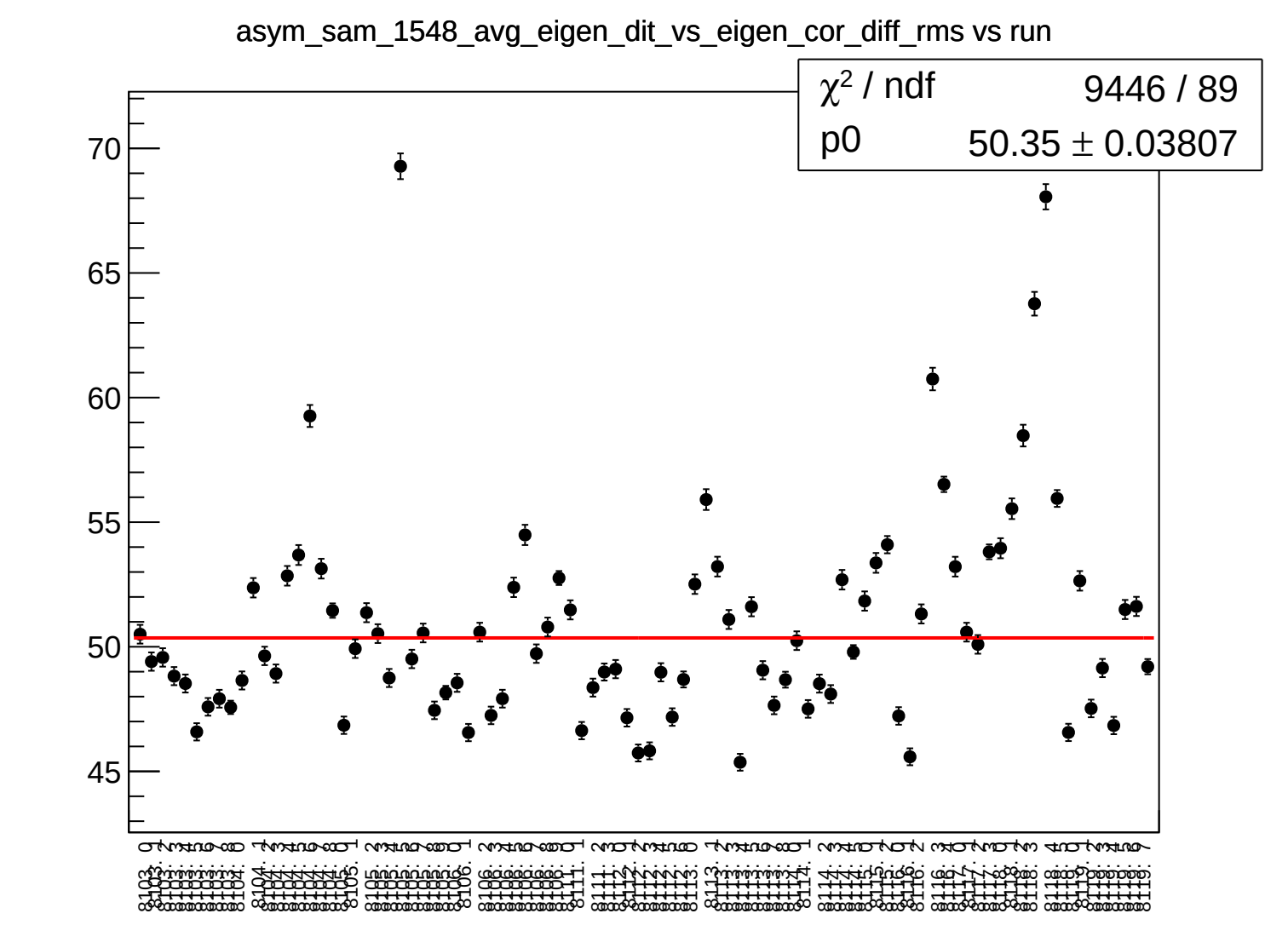

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.62 / 89
p0 −0.03821 ± 0.05384
pull
Entries 90
Mean 404.1
Std Dev 0

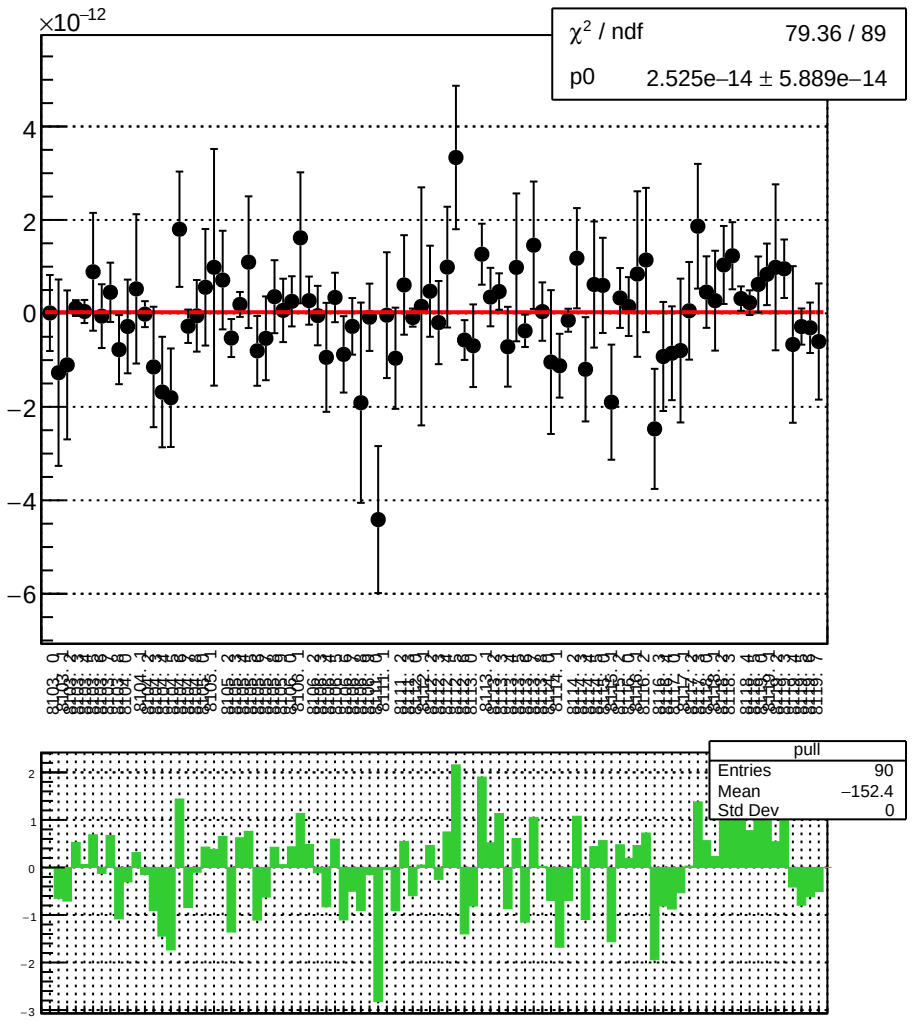

pull1D
Entries 90
Mean −0.007083
Std Dev 0.9696

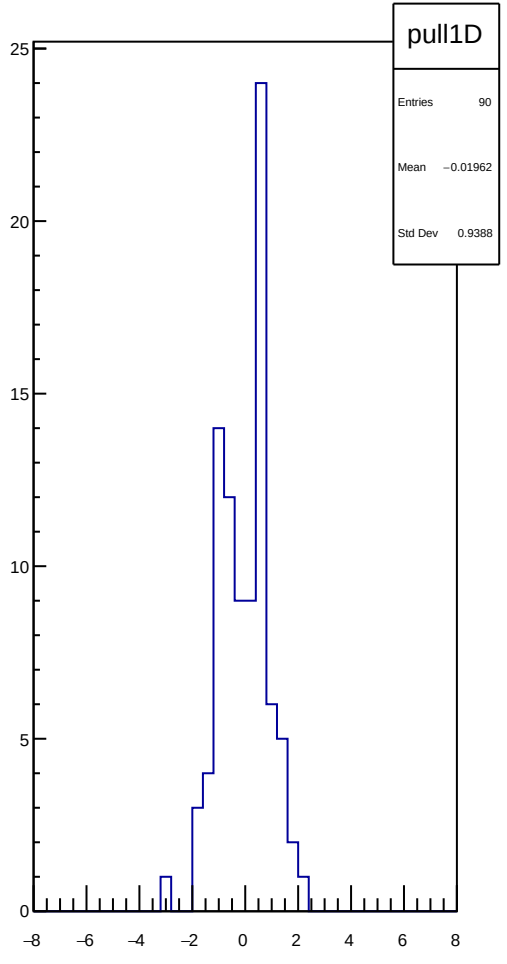

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9446 / 89
p0 50.35 ± 0.03807
70
65
60
55
50
45

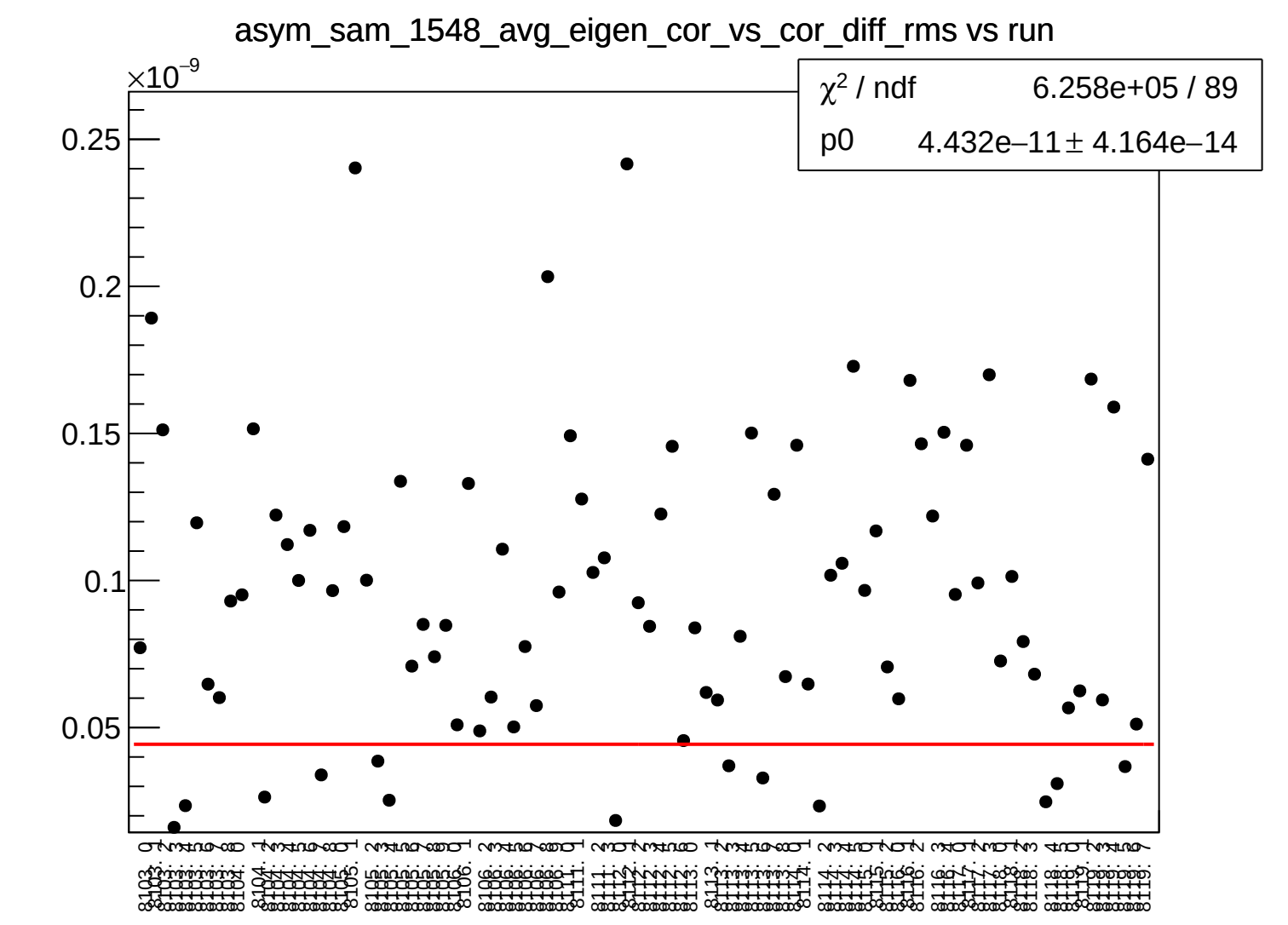

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.62 / 89
p0 −0.03821 ± 0.05384
pull
Entries 90
Mean 404.1
Std Dev 0

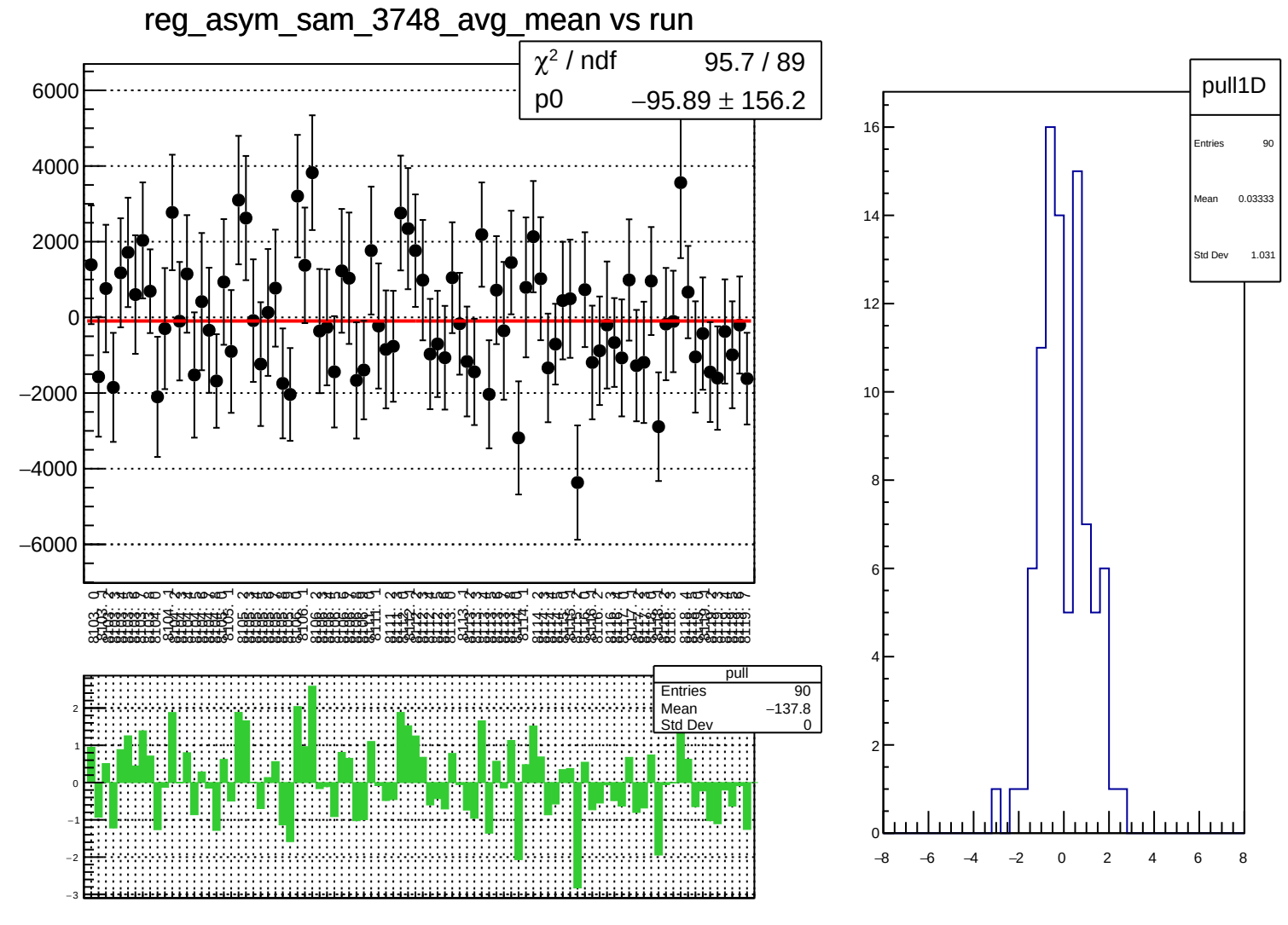

pull1D
Entries 90
Mean −0.007083
Std Dev 0.9696

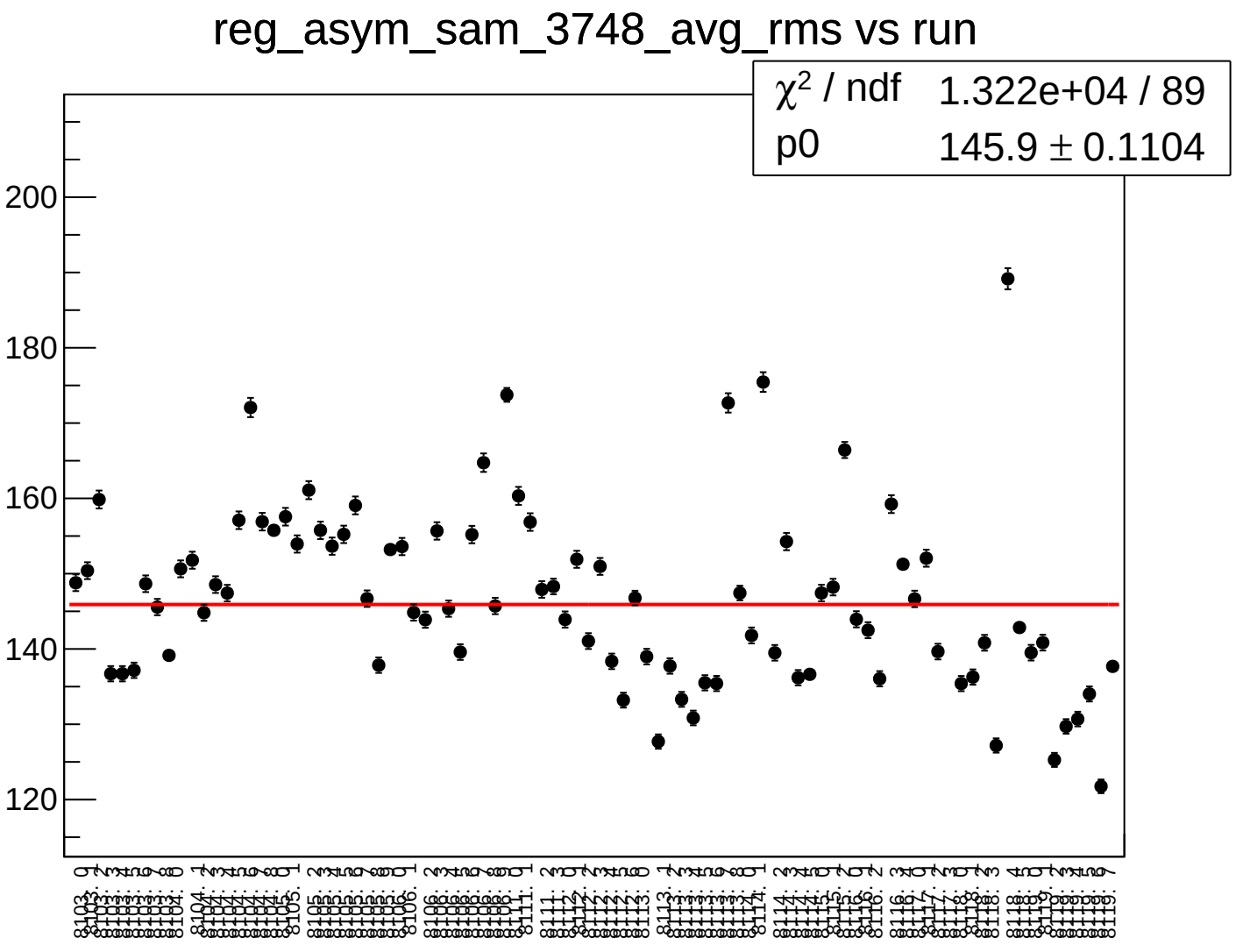

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9446 / 89
p0 50.35 ± 0.03807
70
65
60
55
50
45

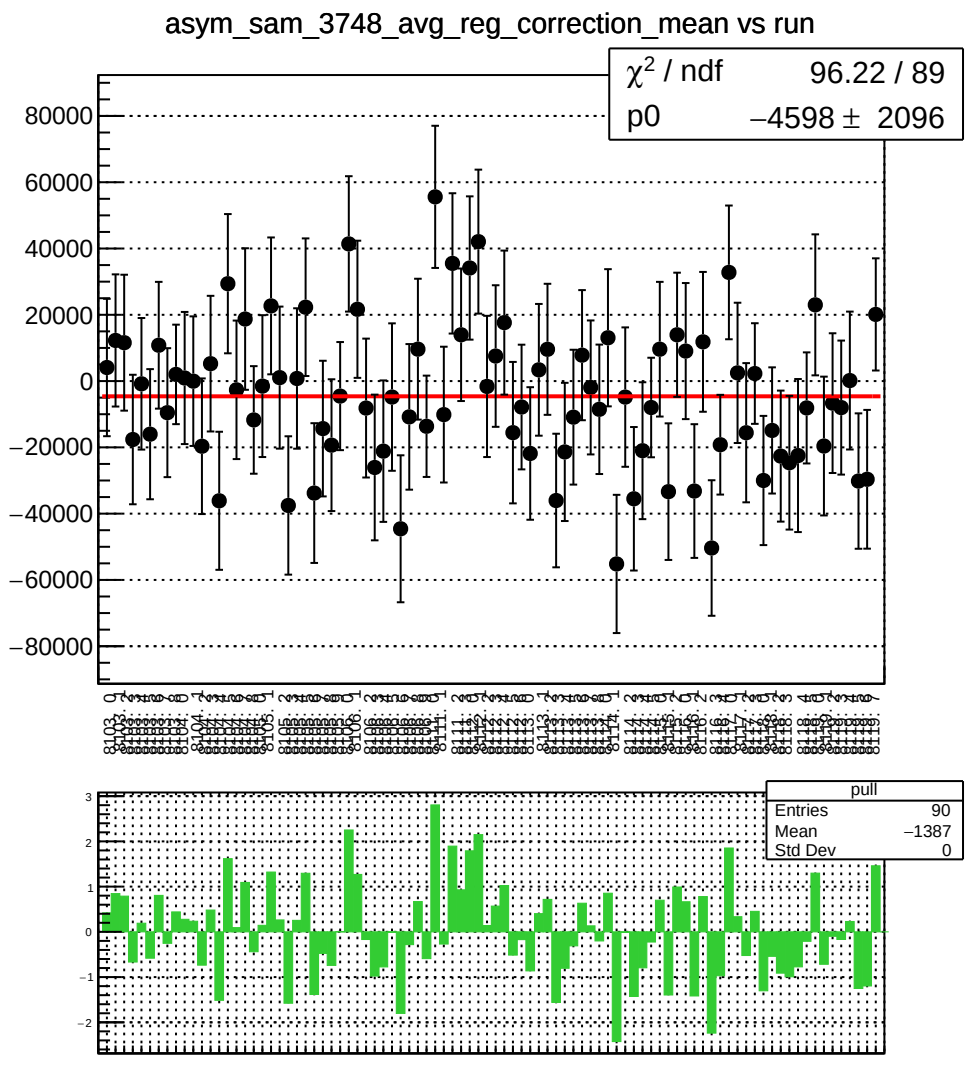

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.36 / 89
p0 2.525e−14 ± 5.889e−14
pull
Entries 90
Mean −152.4
Std Dev 0

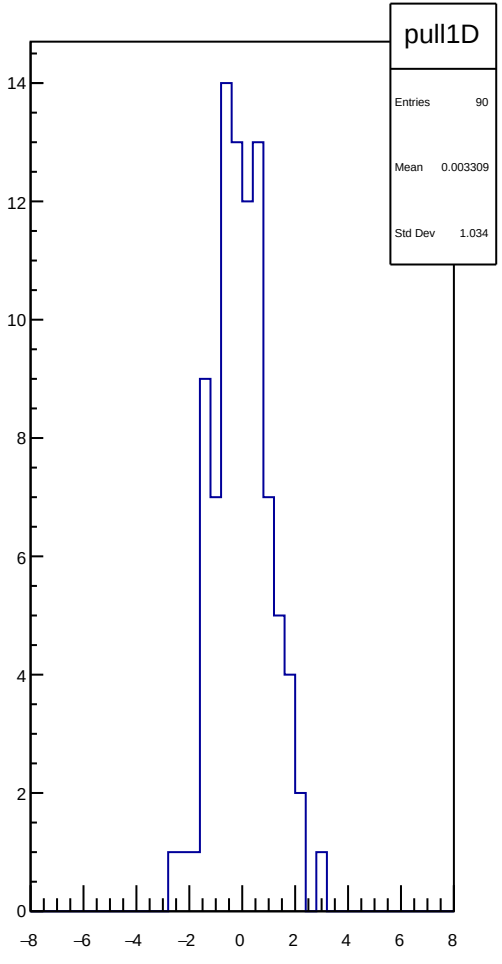

pull1D
Entries 90
Mean −0.01962
Std Dev 0.9388

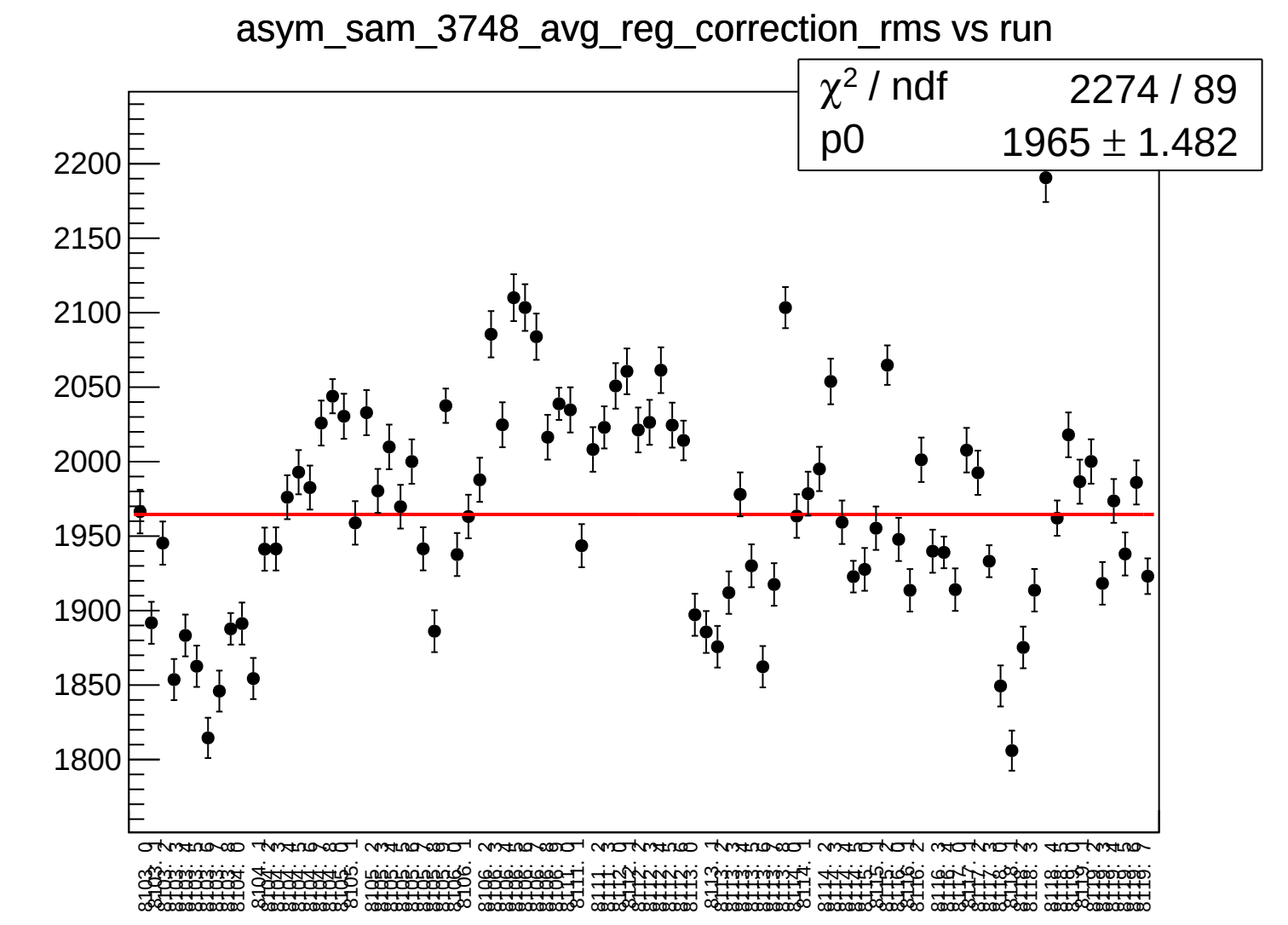

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.258e+05 / 89
p0 4.432e−11 ± 4.164e−14
0.25
0.2
0.15
0.1
0.05

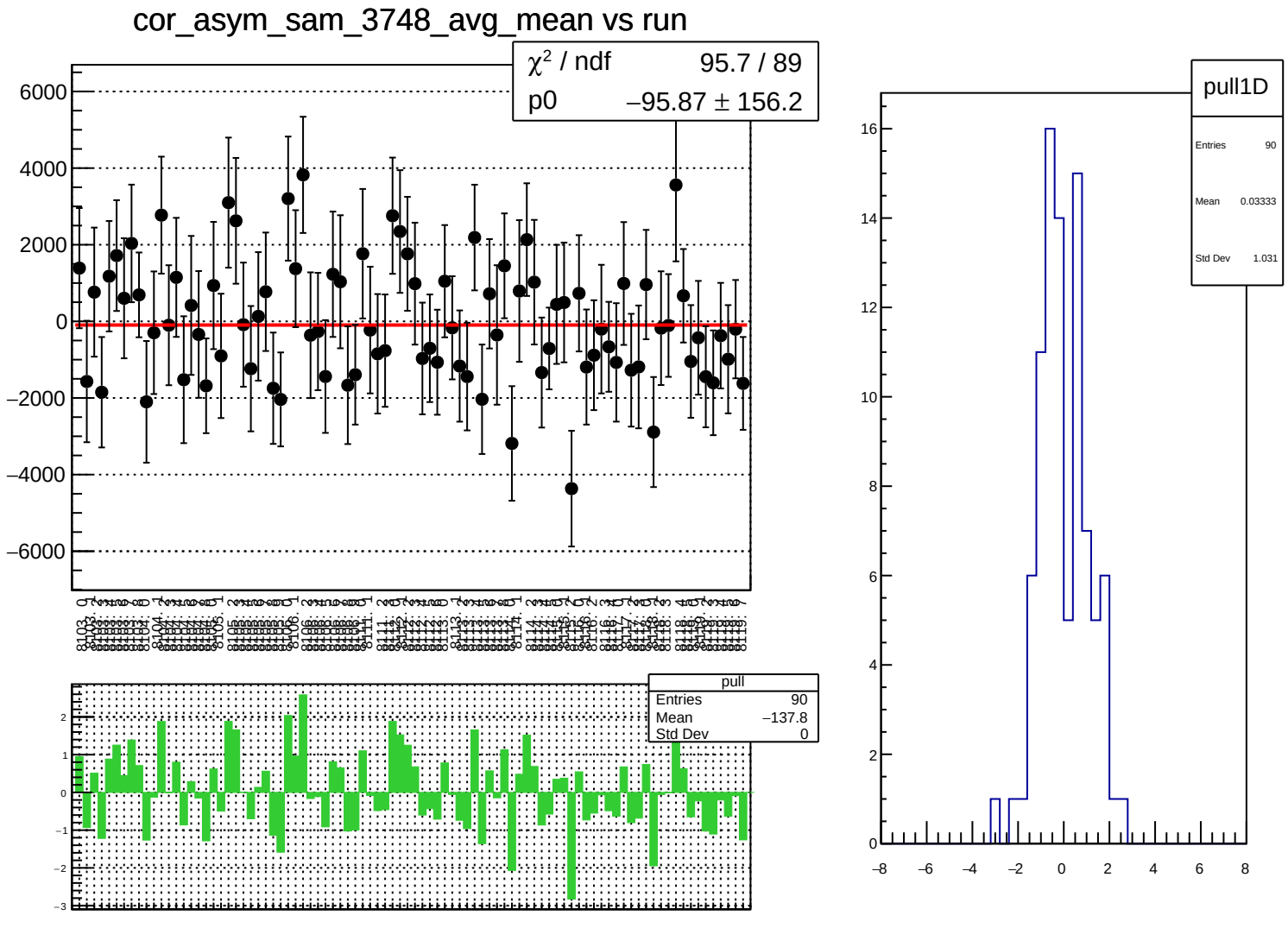

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 95.7 / 89
p0 −95.89 ± 156.2
pull
Entries 90
Mean −137.8
Std Dev 0
pull1D
Entries 90
Mean 0.03333
Std Dev 1.031

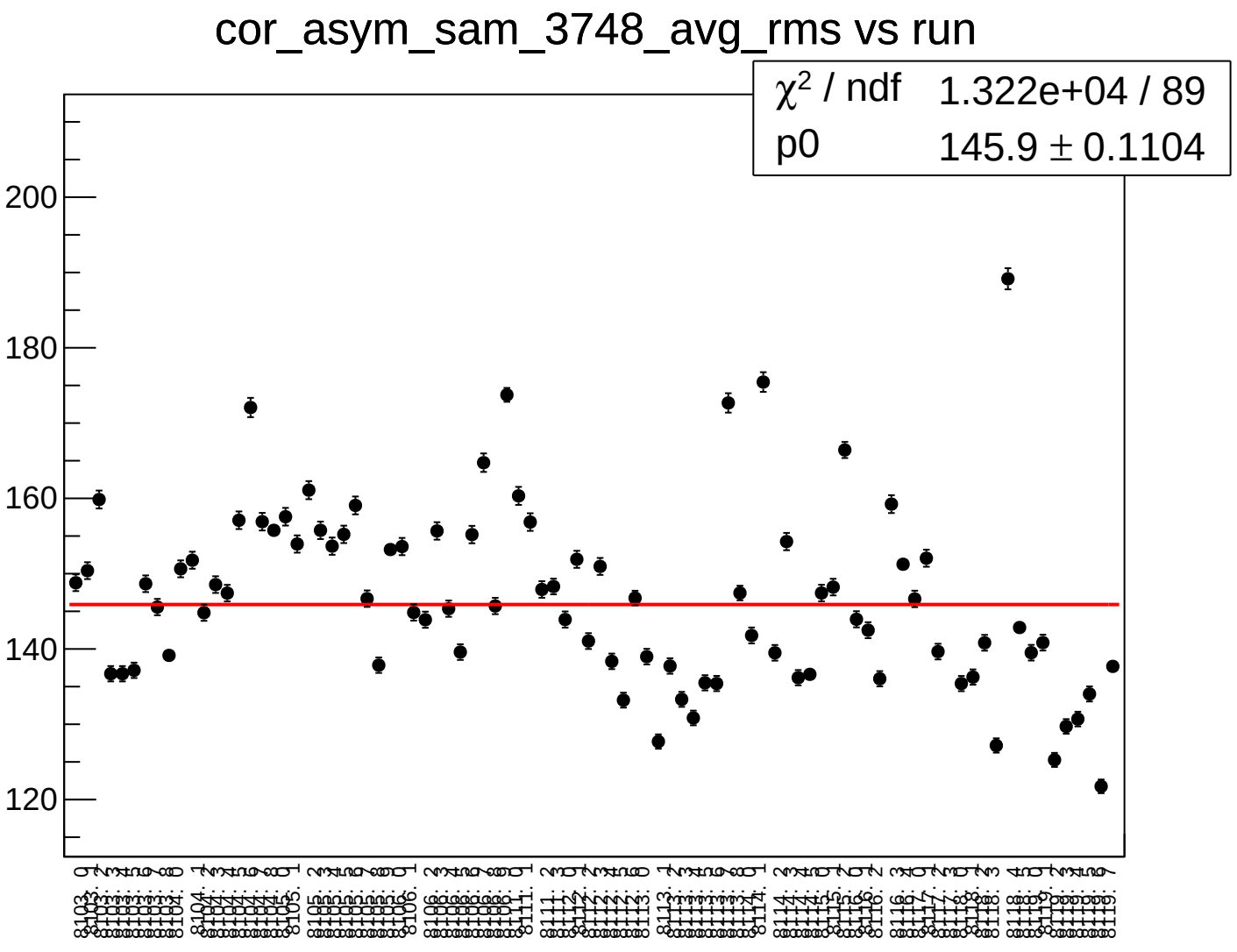

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.322e+04 / 89
p0 145.9 ± 0.1104
200
180
160
140
120

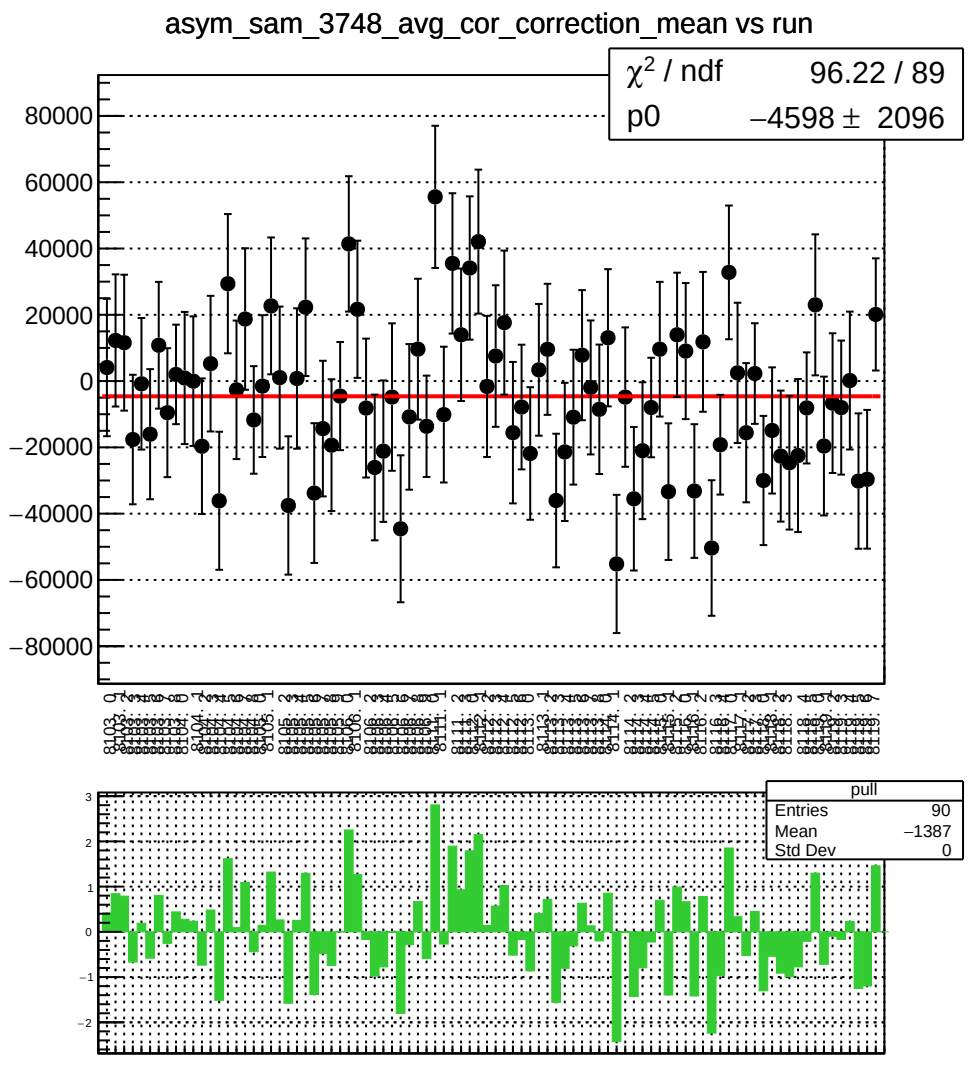

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 96.22 / 89
p0 −4598 ± 2096
pull
Entries 90
Mean −1387
Std Dev 0

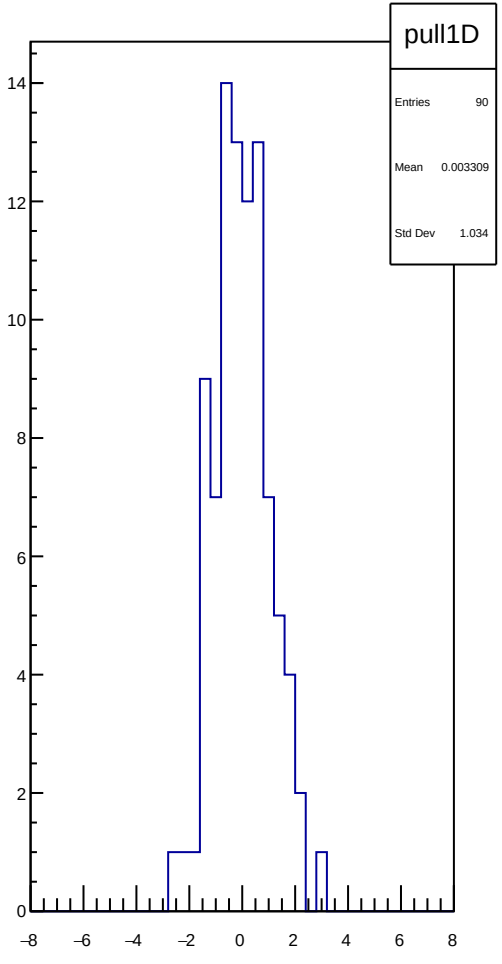

pull1D
Entries 90
Mean 0.003309
Std Dev 1.034

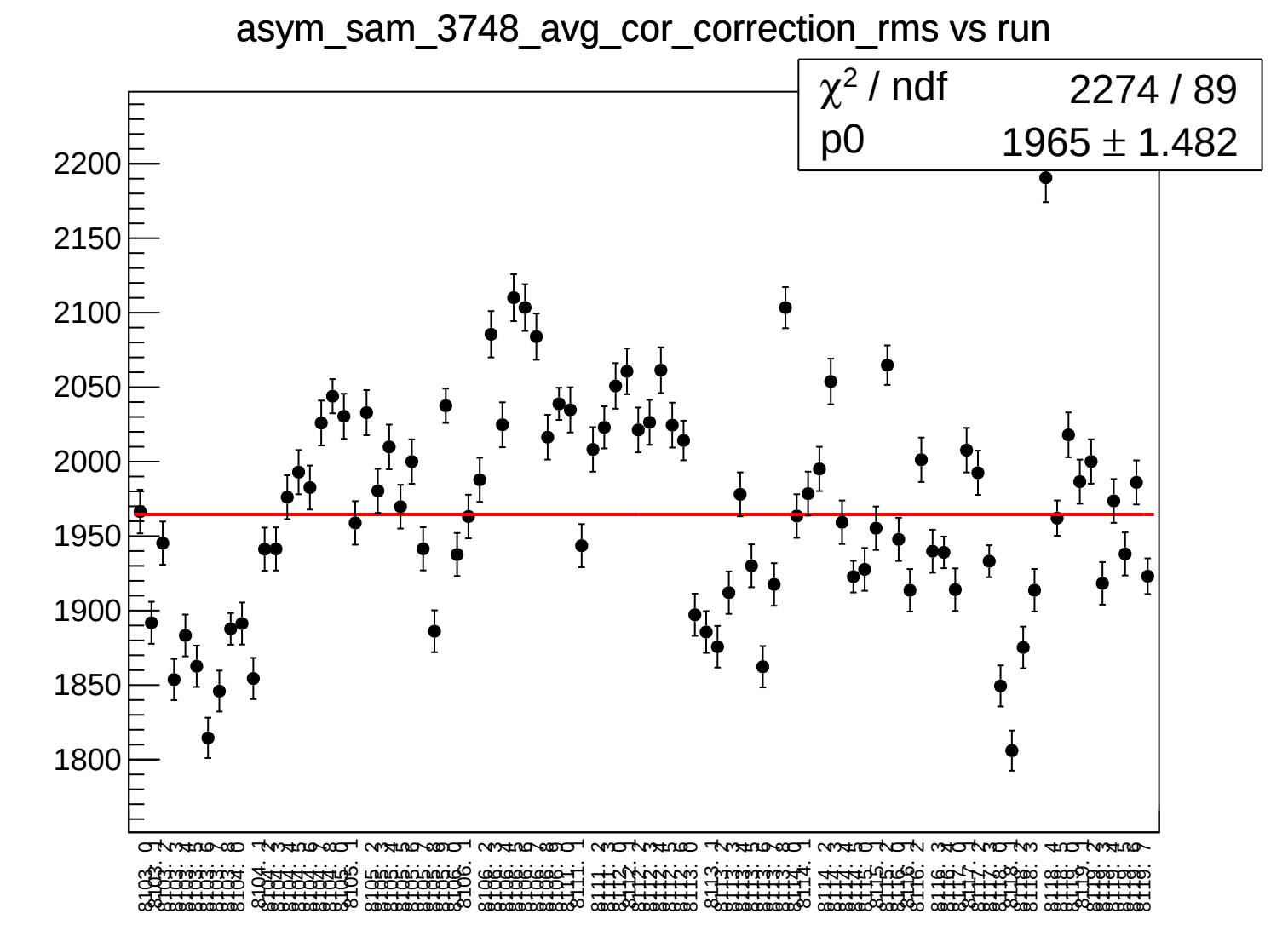

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2274 / 89
p0 1965 ± 1.482
2200
2150
2100
2050
2000
1950
1900
1850
1800

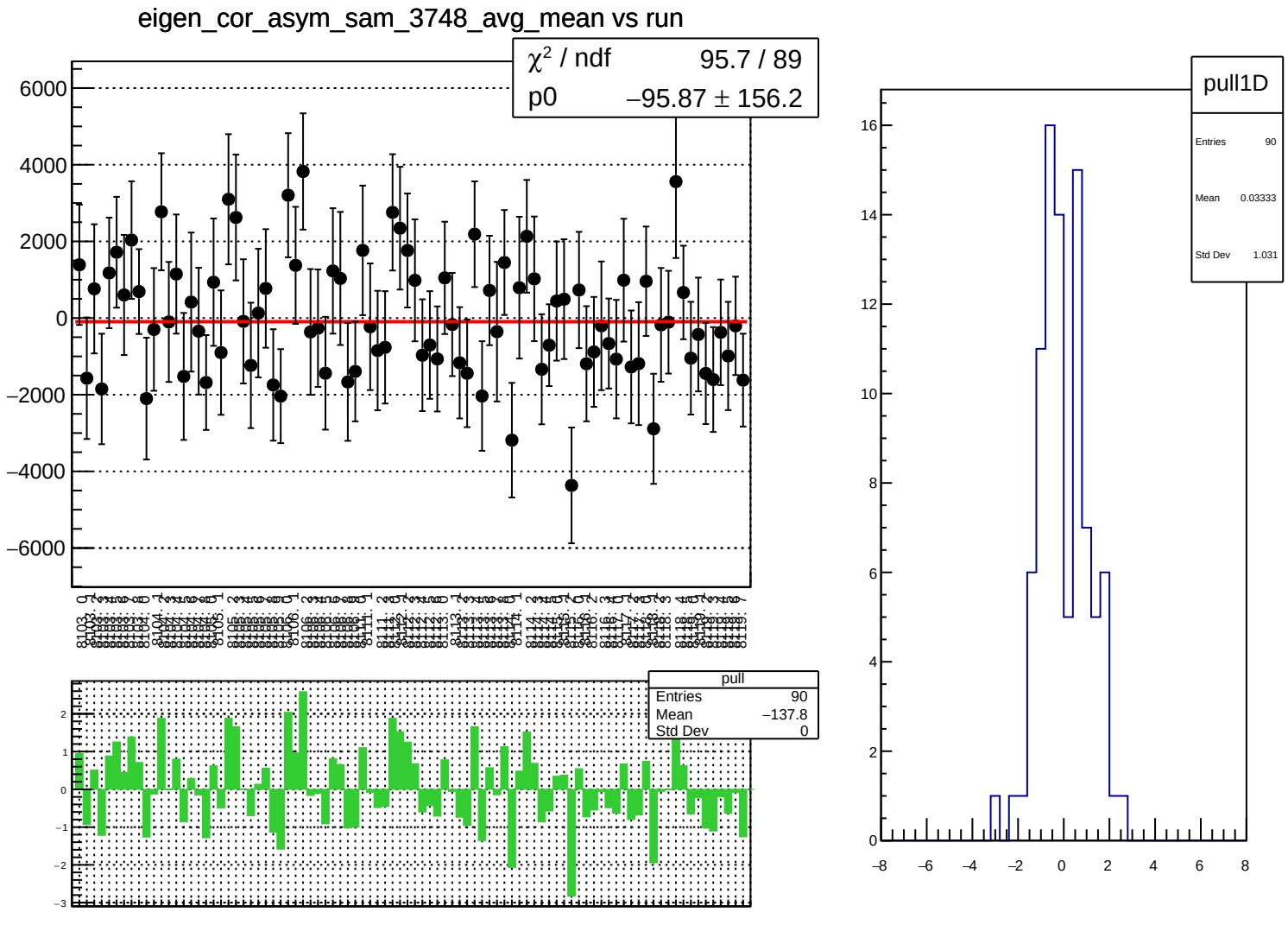

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 95.7 / 89
p0 −95.87 ± 156.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −137.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.03333
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

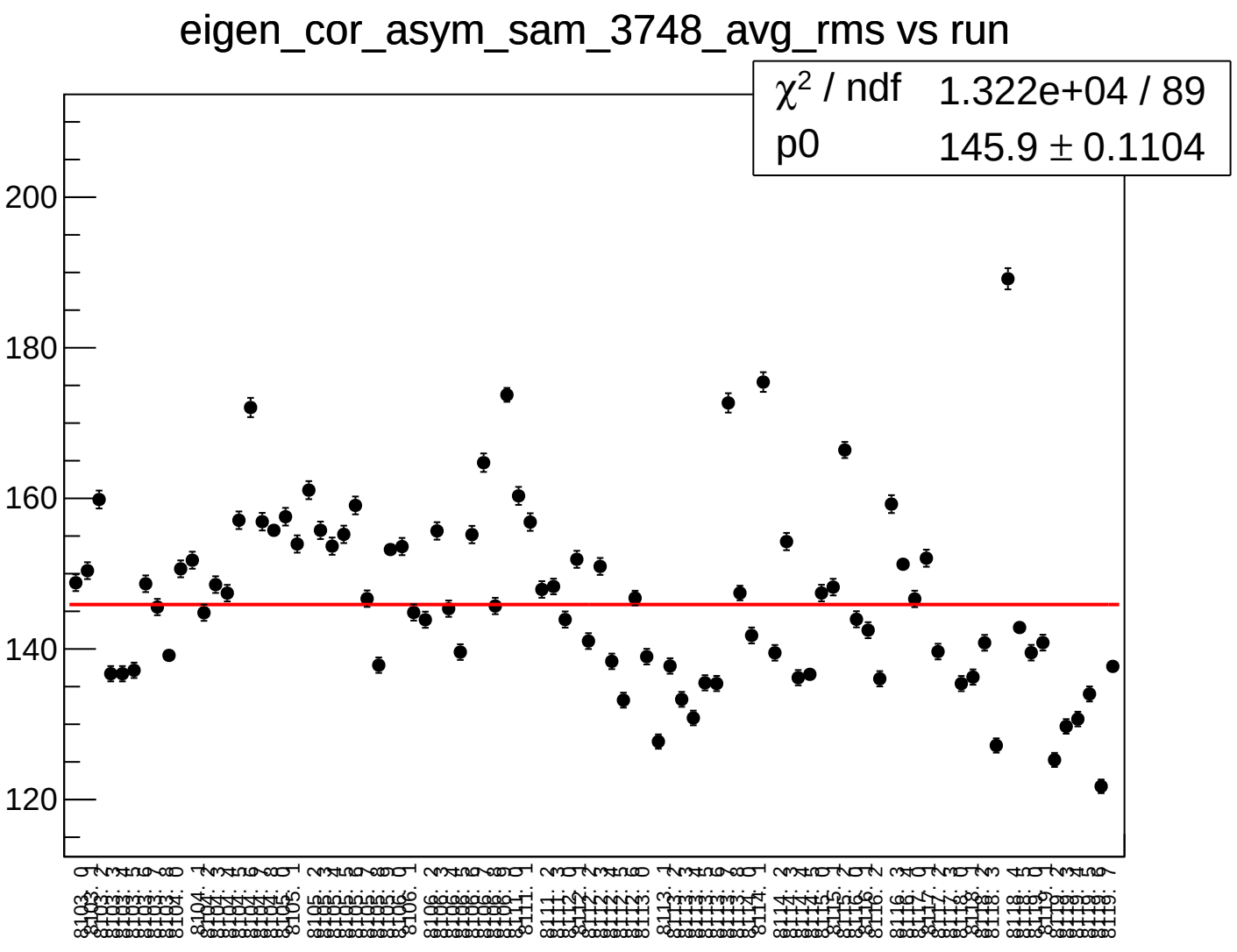

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.322e+04 / 89
p0 145.9 ± 0.1104
200
180
160
140
120

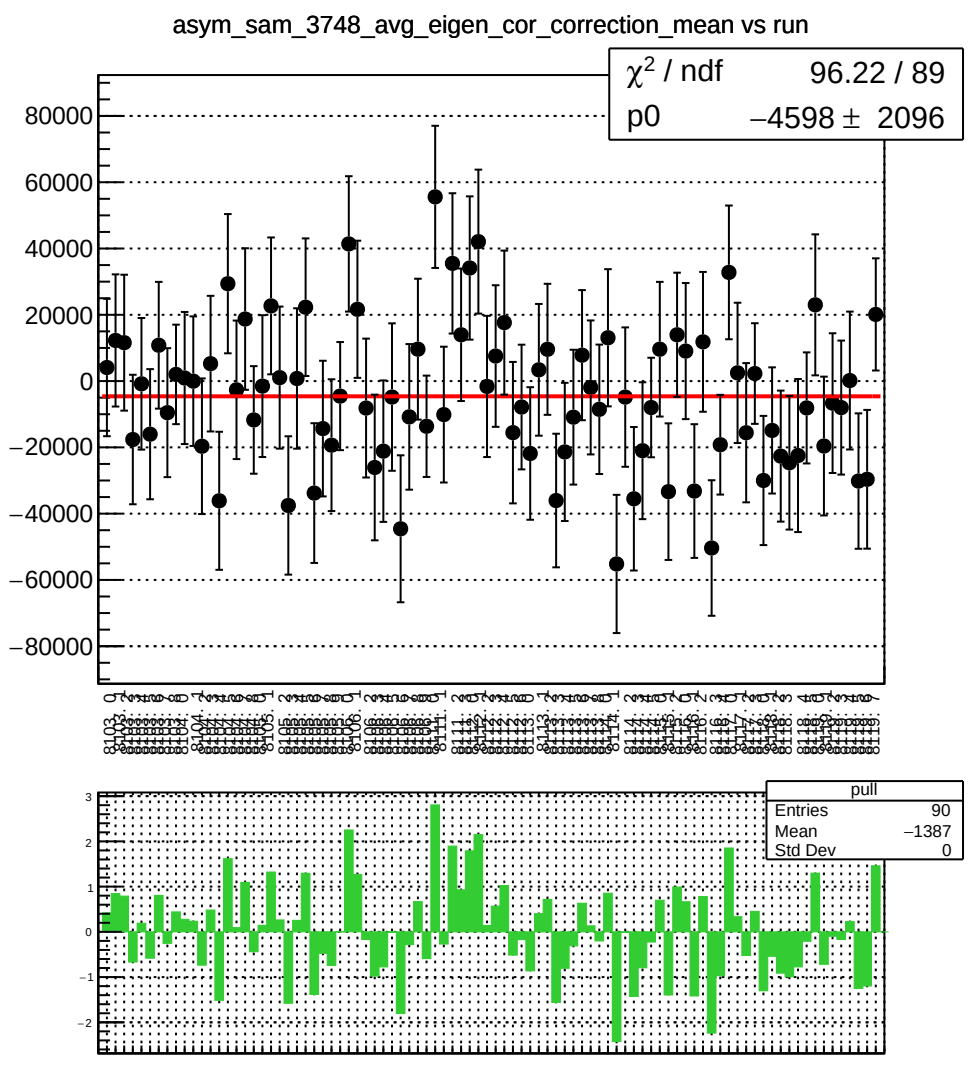

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 96.22 / 89
p0 −4598 ± 2096
pull
Entries 90
Mean −1387
Std Dev 0

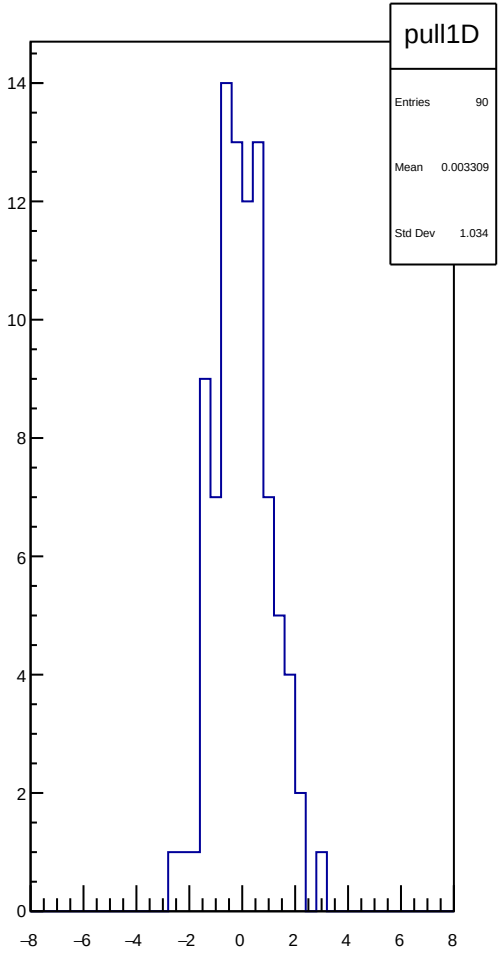

pull1D
Entries 90
Mean 0.003309
Std Dev 1.034

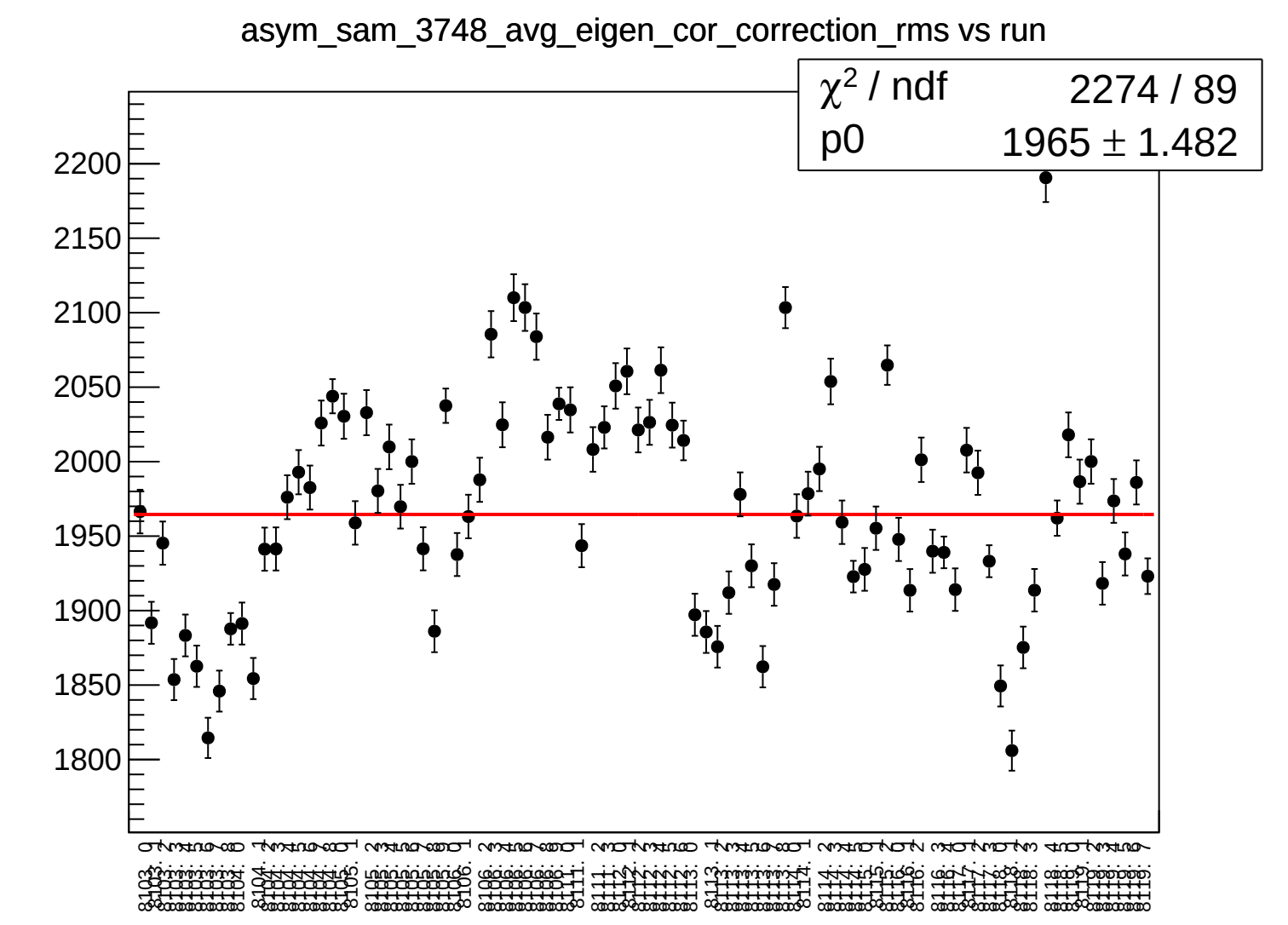

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 2274 / 89
p0 1965 ± 1.482
2200
2150
2100
2050
2000
1950
1900
1850
1800

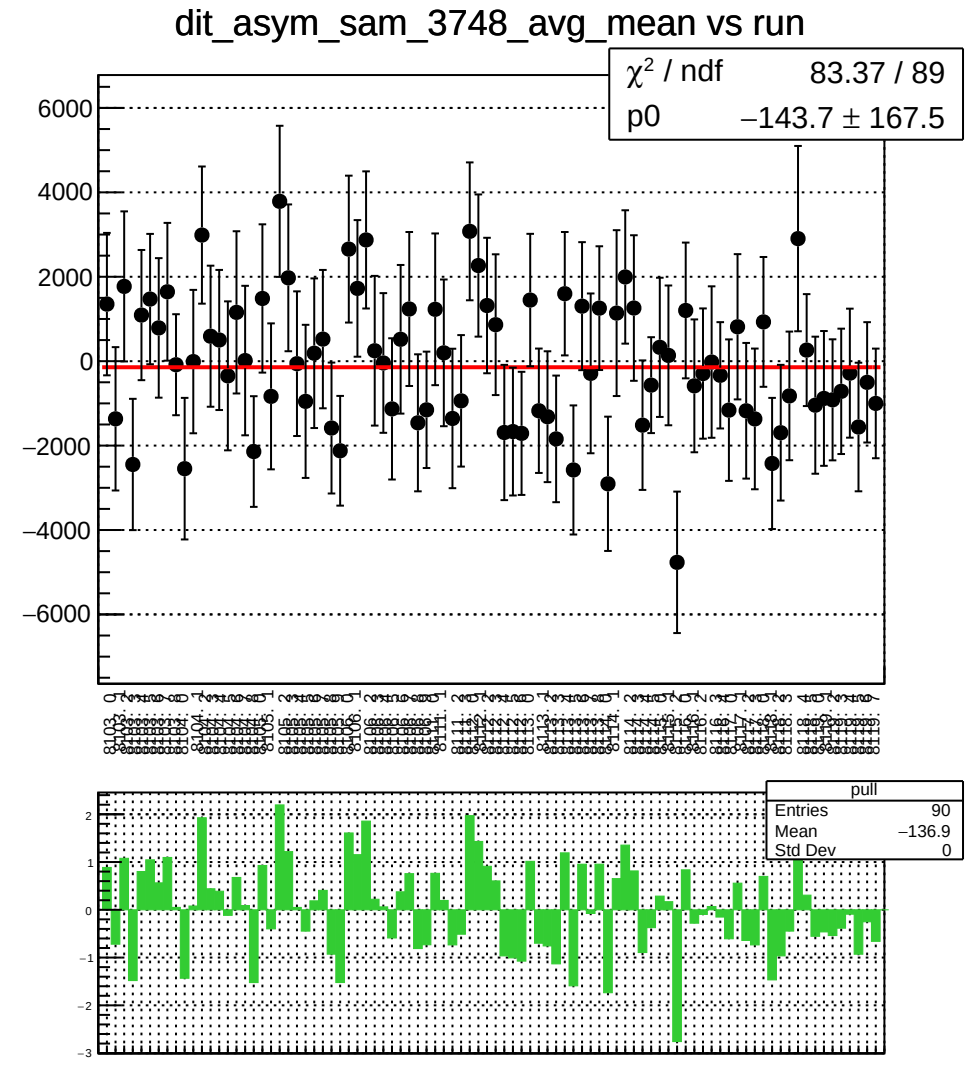

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 95.7 / 89
p0 −95.87 ± 156.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −137.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.03333
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

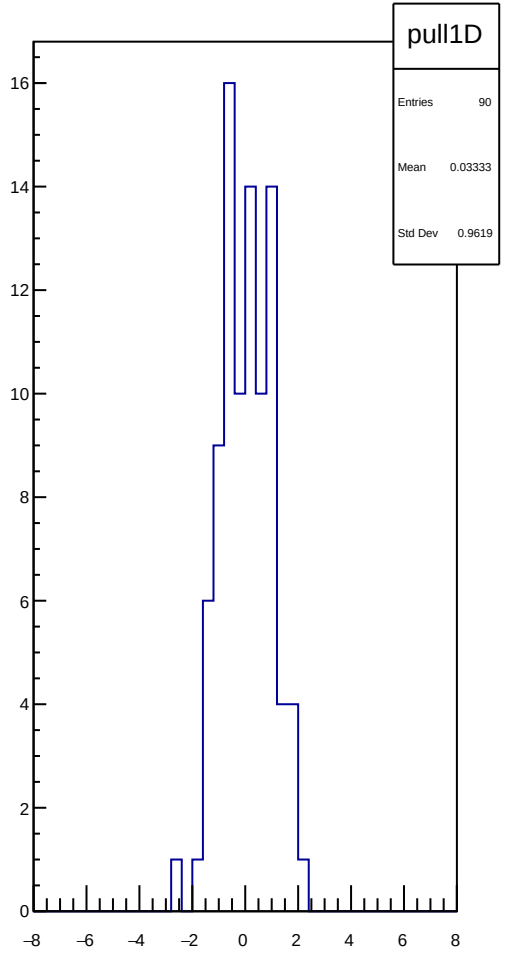

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.322e+04 / 89
p0 145.9 ± 0.1104
200
180
160
140
120

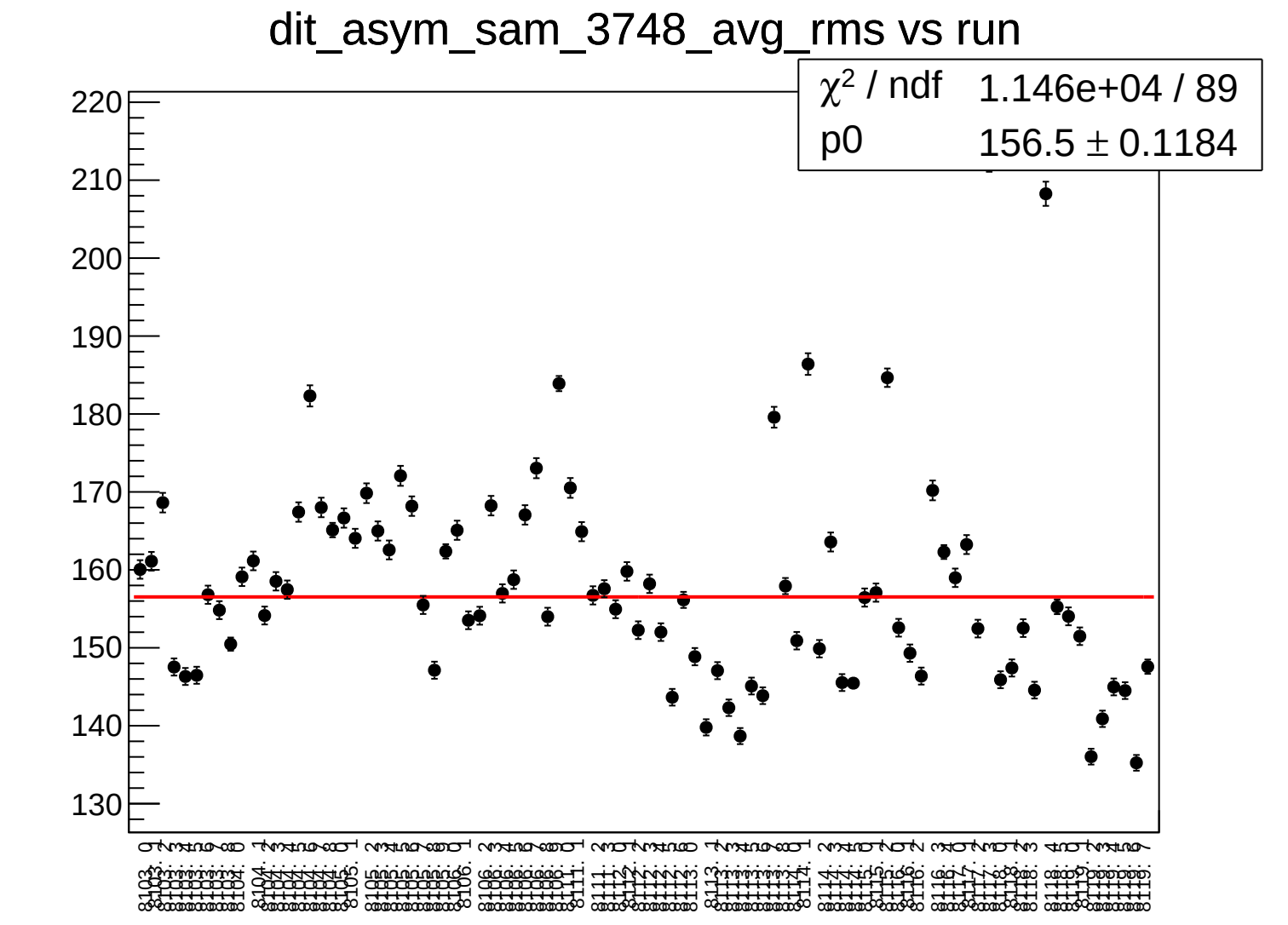

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.22 / 89
p0 −4598 ± 2096
pull
Entries 90
Mean −1387
Std Dev 0

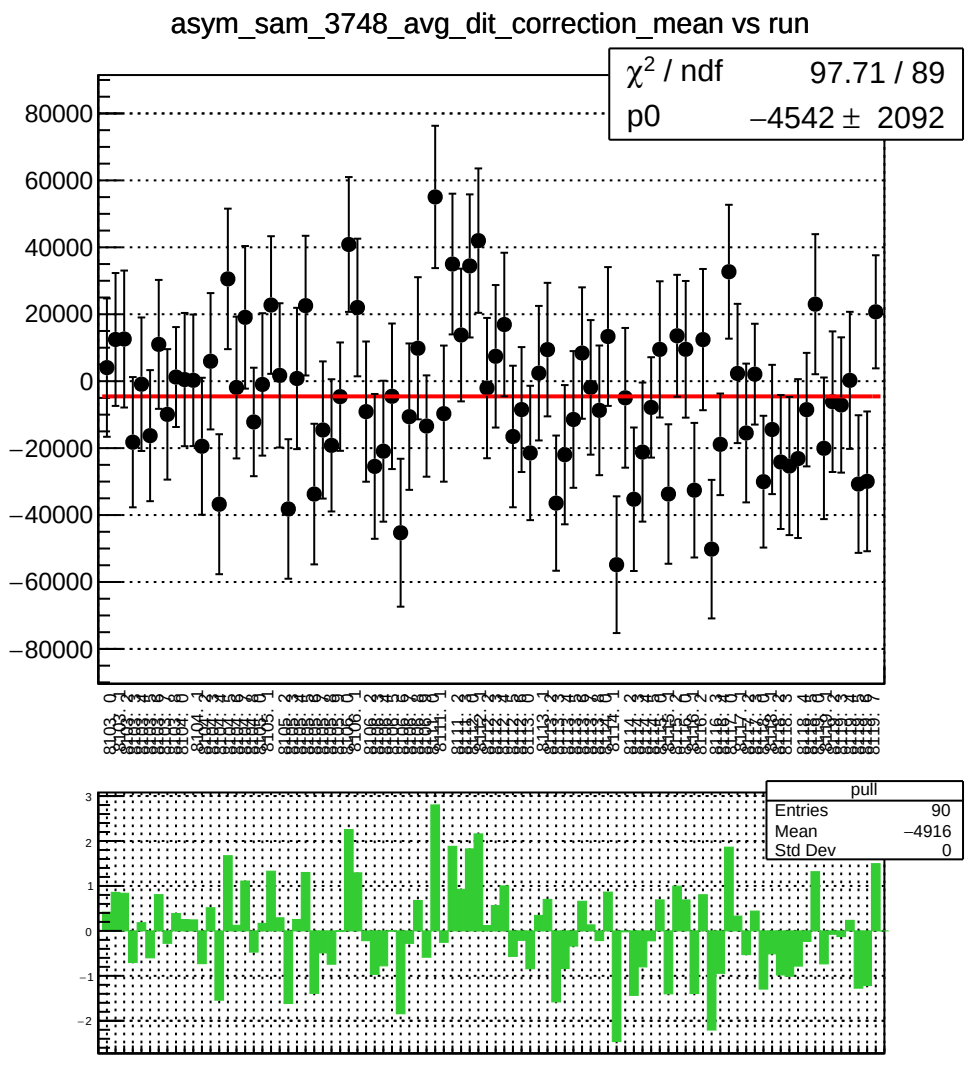

pull1D
Entries 90
Mean 0.003309
Std Dev 1.034

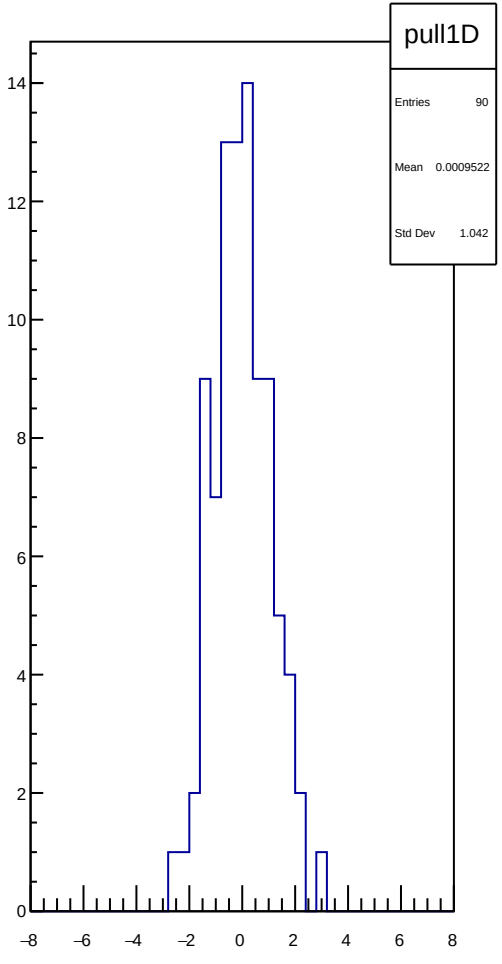

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 2274 / 89
p0 1965 ± 1.482
2200
2150
2100
2050
2000
1950
1900
1850
1800

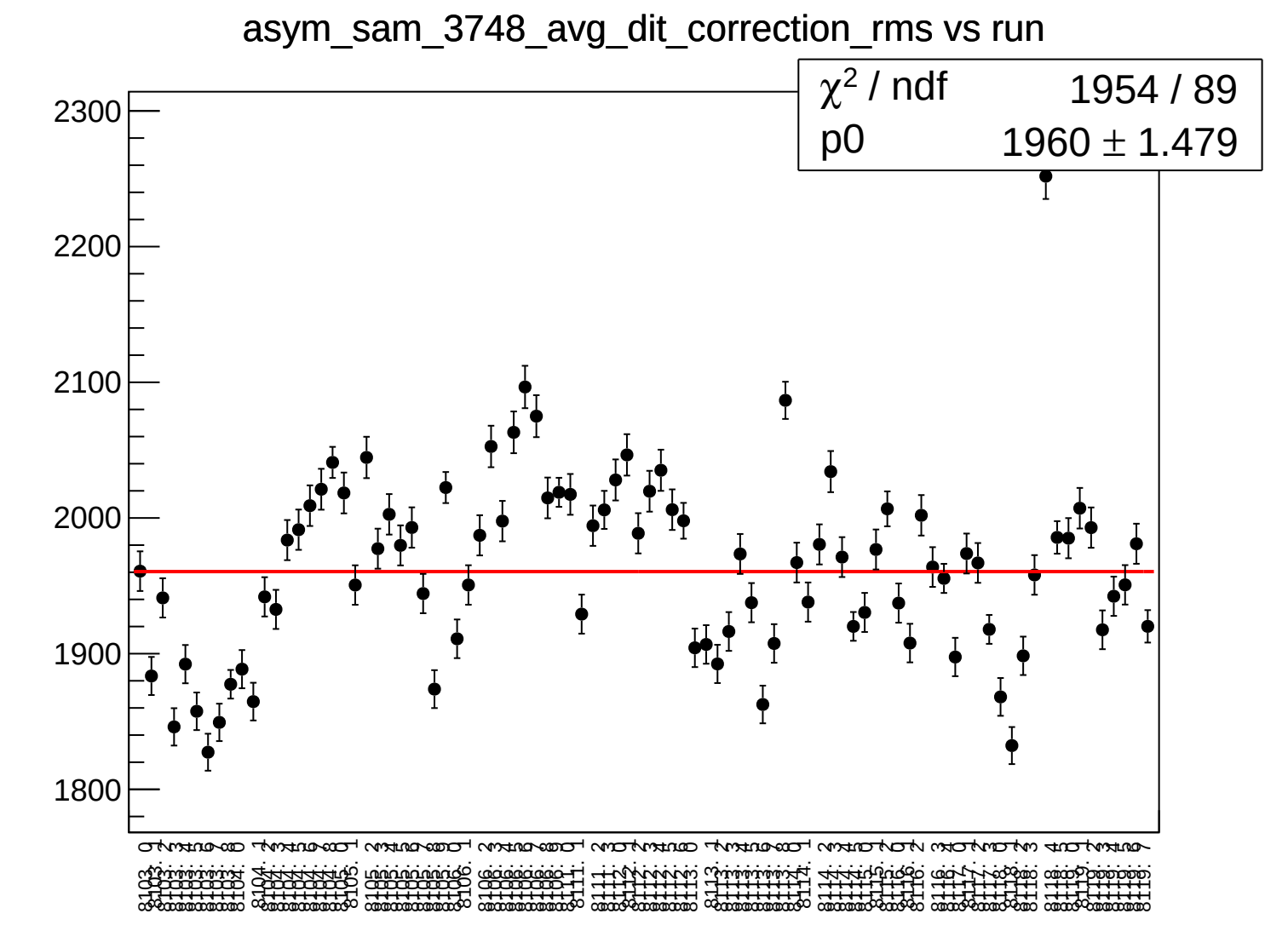

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 83.37 / 89
p0 −143.7 ± 167.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −136.9
Std Dev 0
2
1
0
−1
−2
−3

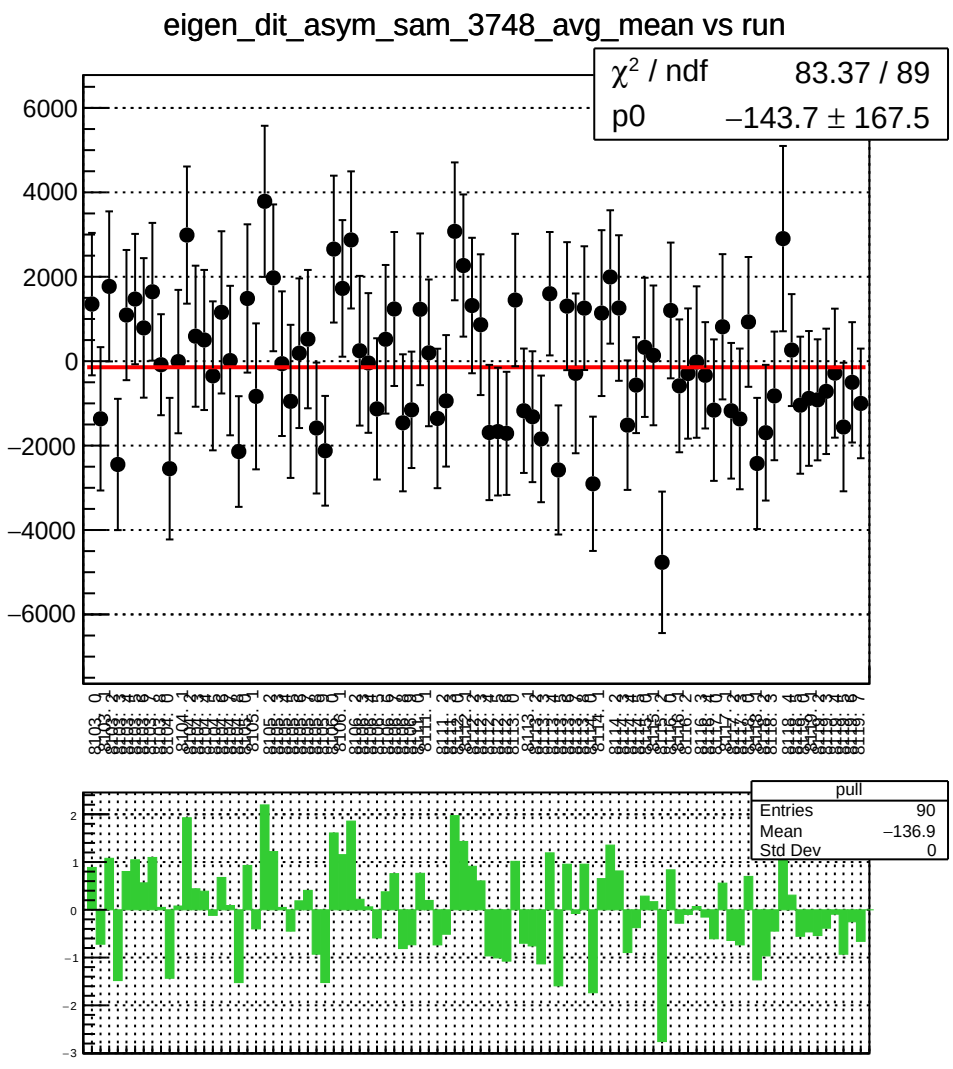

pull1D
Entries 90
Mean 0.03333
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

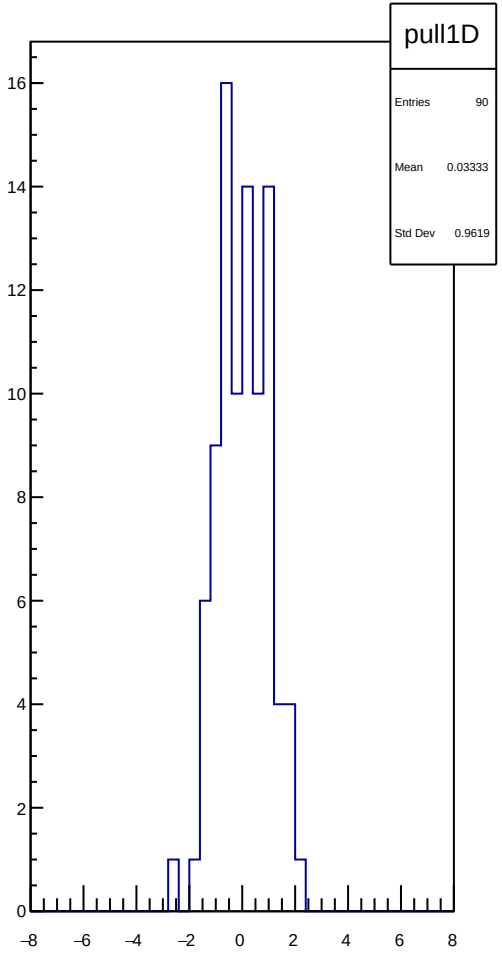

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.146e+04 / 89
p0 156.5 ± 0.1184
220
210
200
190
180
170
160
150
140
130

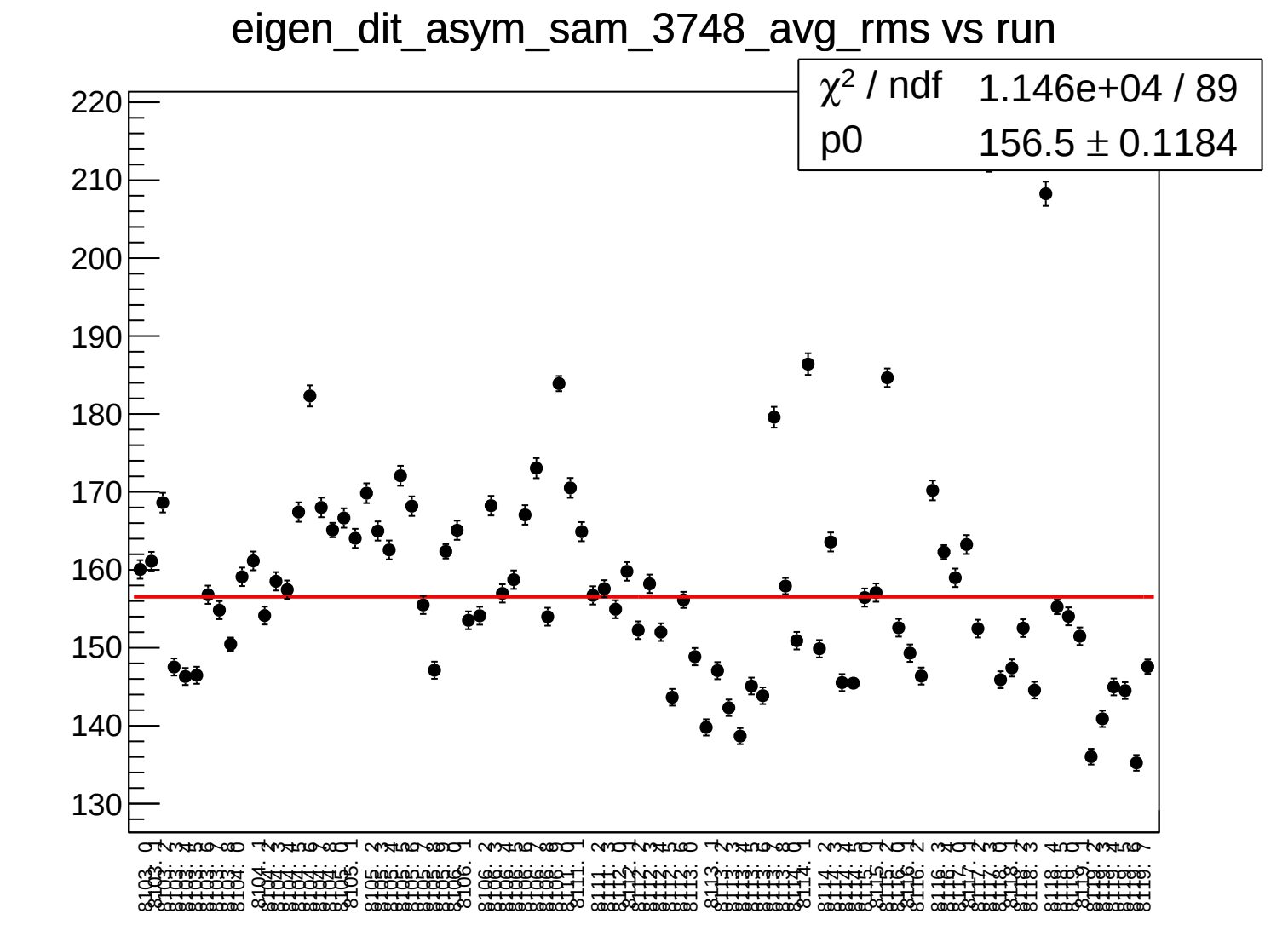

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 97.71 / 89
p0 −4542 ± 2092
pull
Entries 90
Mean −4916
Std Dev 0

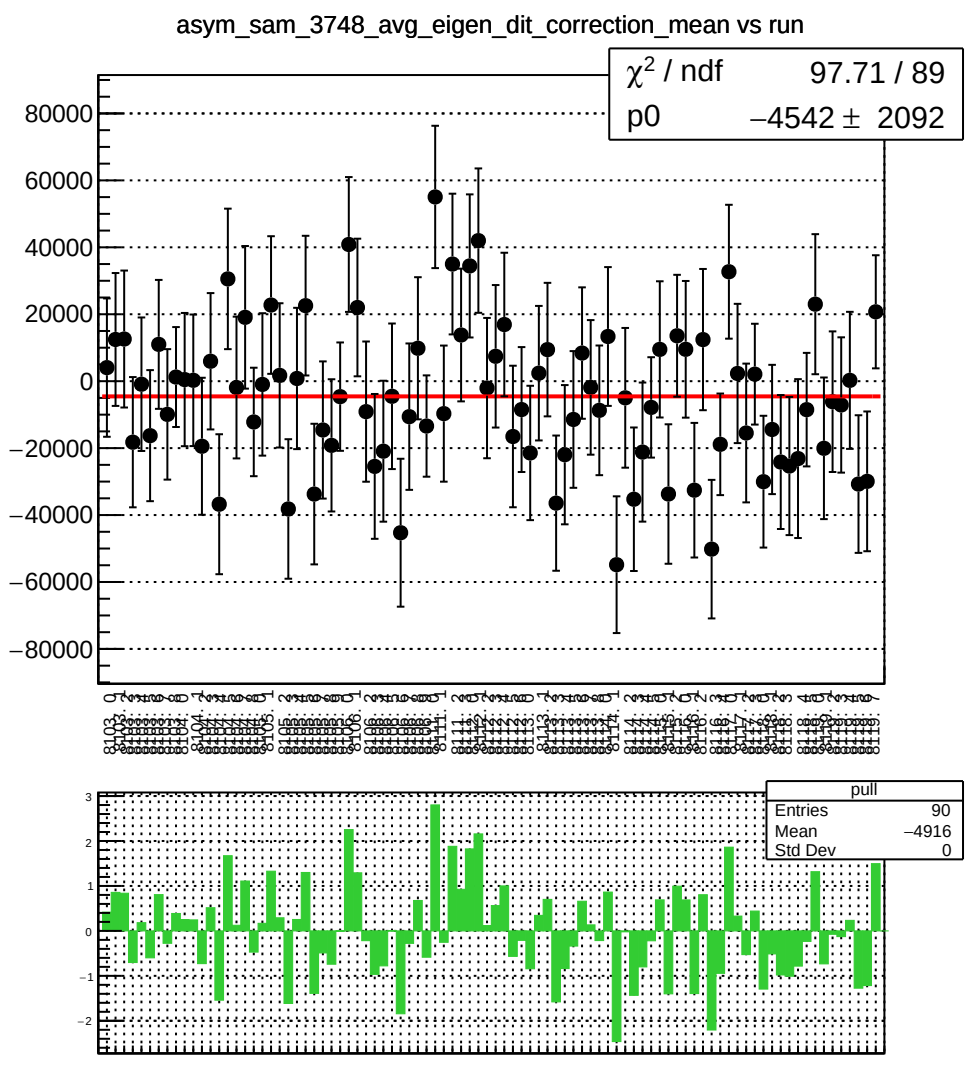

pull1D
Entries 90
Mean 0.0009522
Std Dev 1.042

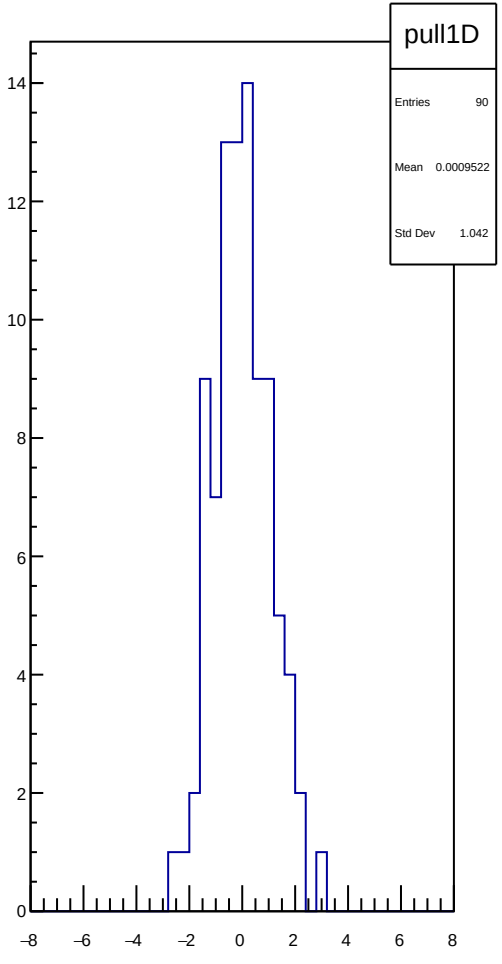

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1954 / 89
p0 1960 ± 1.479
2300
2200
2100
2000
1900
1800

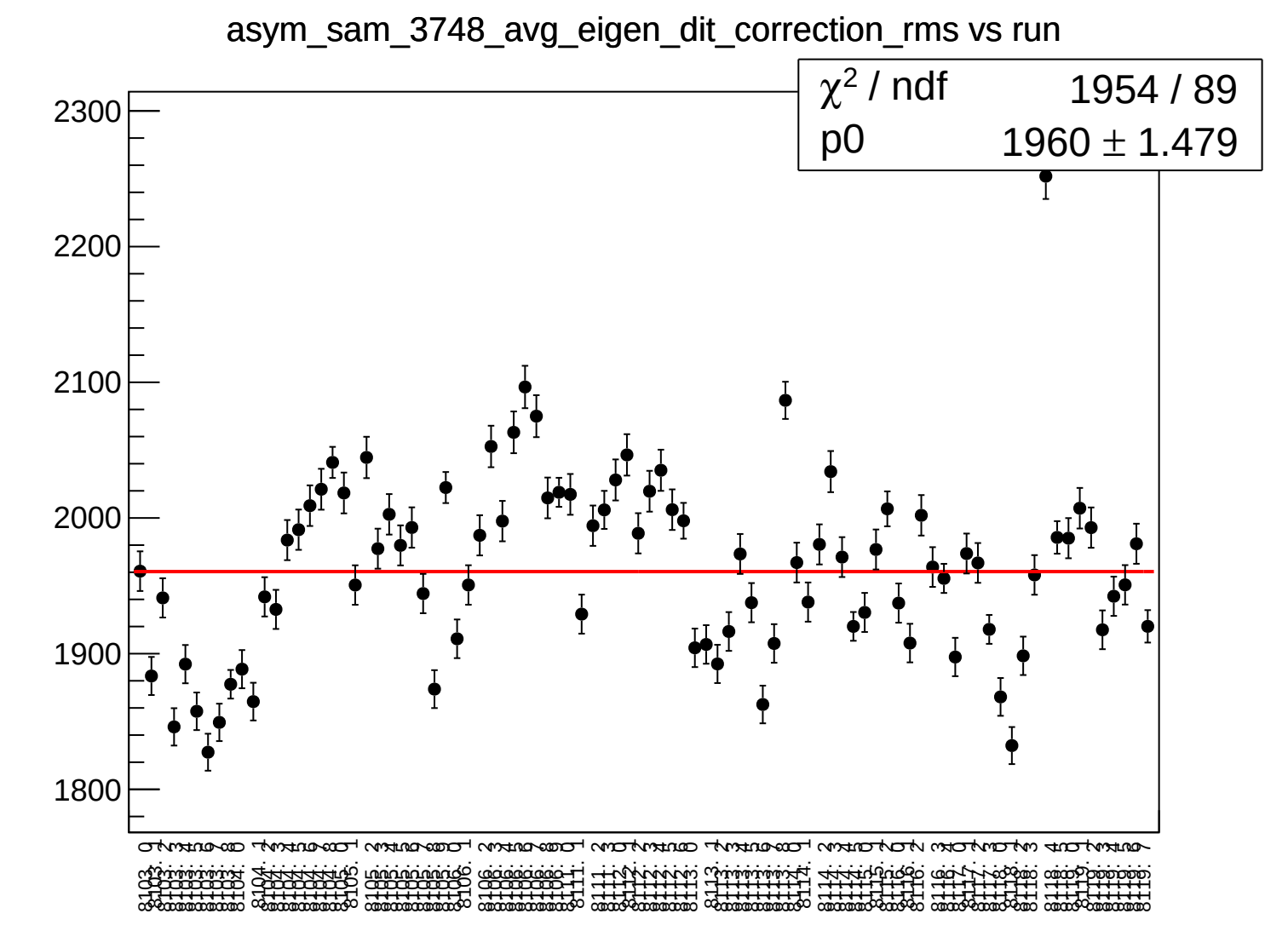

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 83.37 / 89
p0 −143.7 ± 167.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −136.9
Std Dev 0
2
1
0
−1
−2
−3

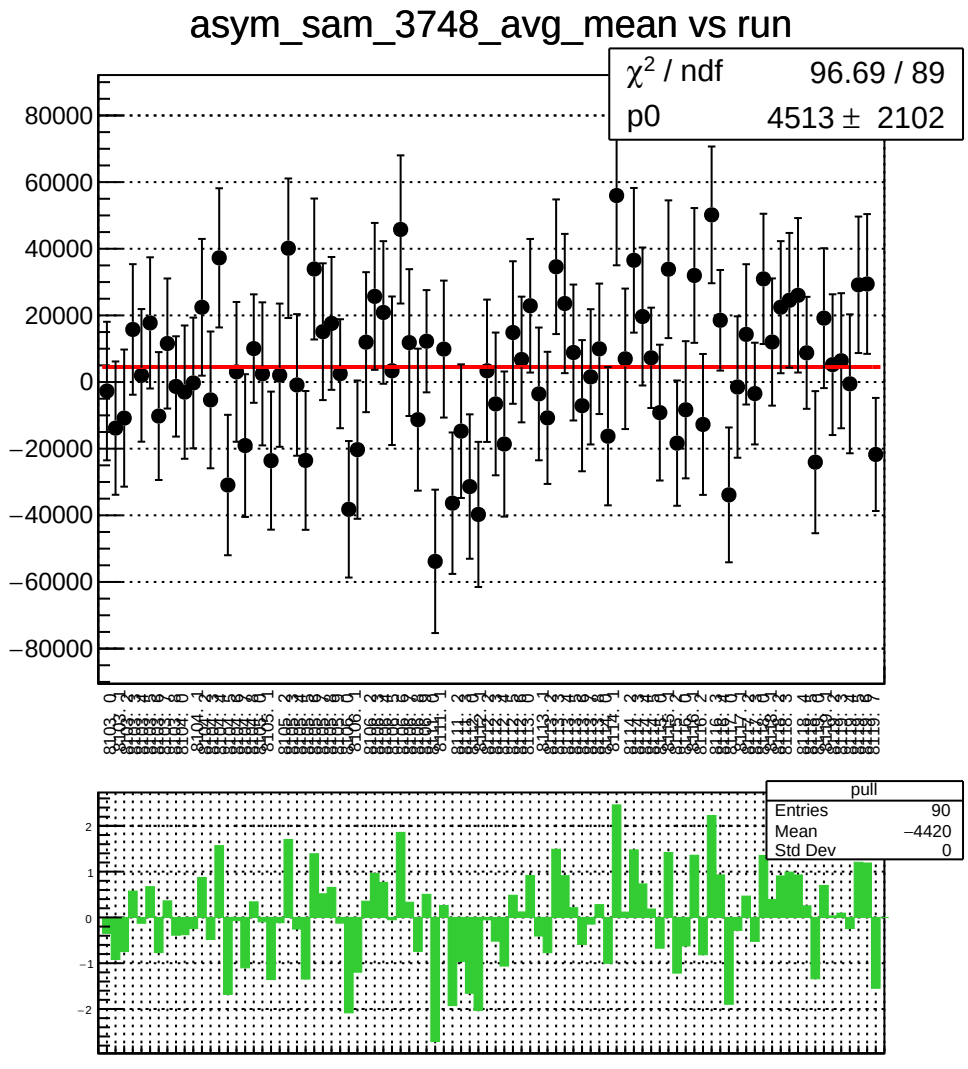

pull1D
Entries 90
Mean 0.03333
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

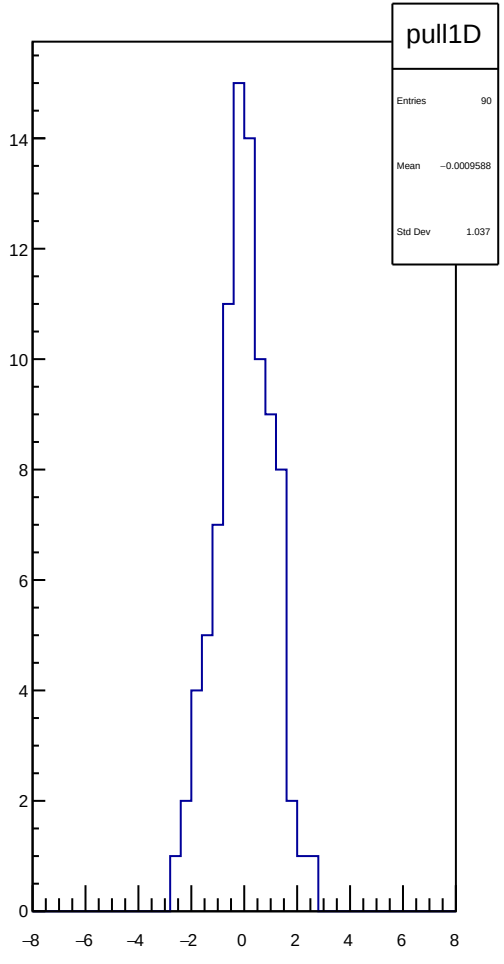

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.146e+04 / 89
p0 156.5 ± 0.1184
220
210
200
190
180
170
160
150
140
130

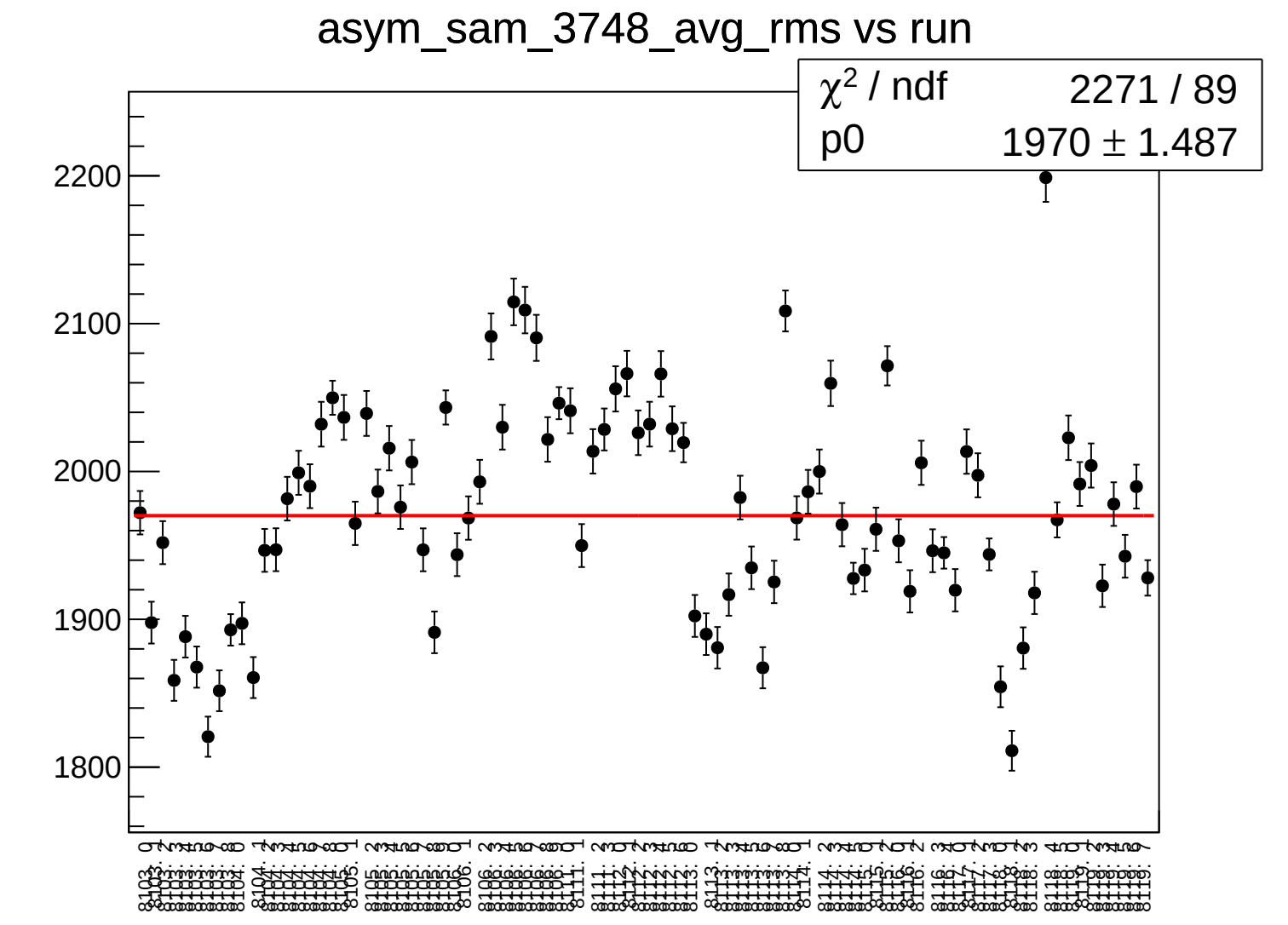

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.71 / 89
p0 −4542 ± 2092
pull
Entries 90
Mean −4916
Std Dev 0

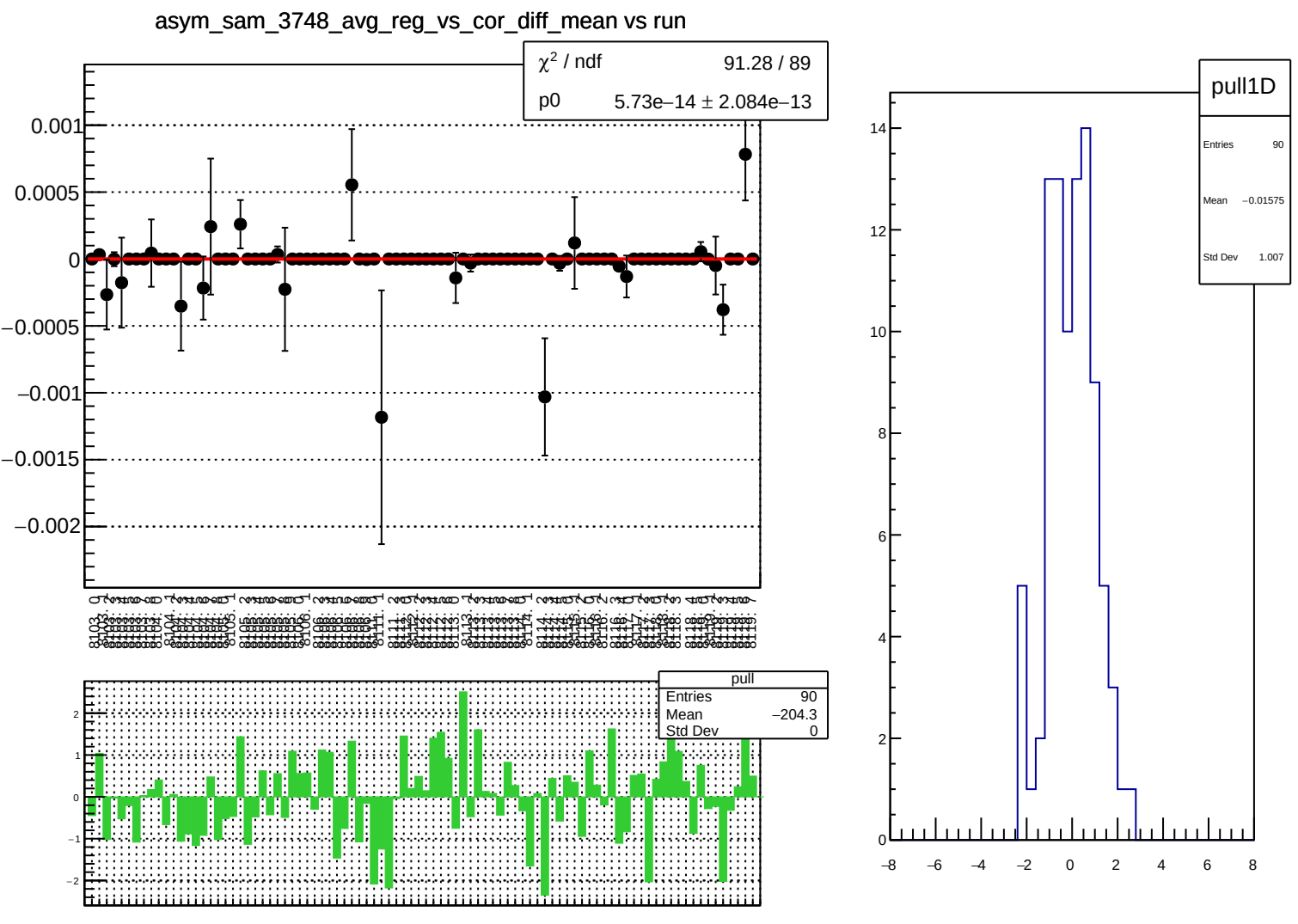

pull1D
Entries 90
Mean 0.0009522
Std Dev 1.042

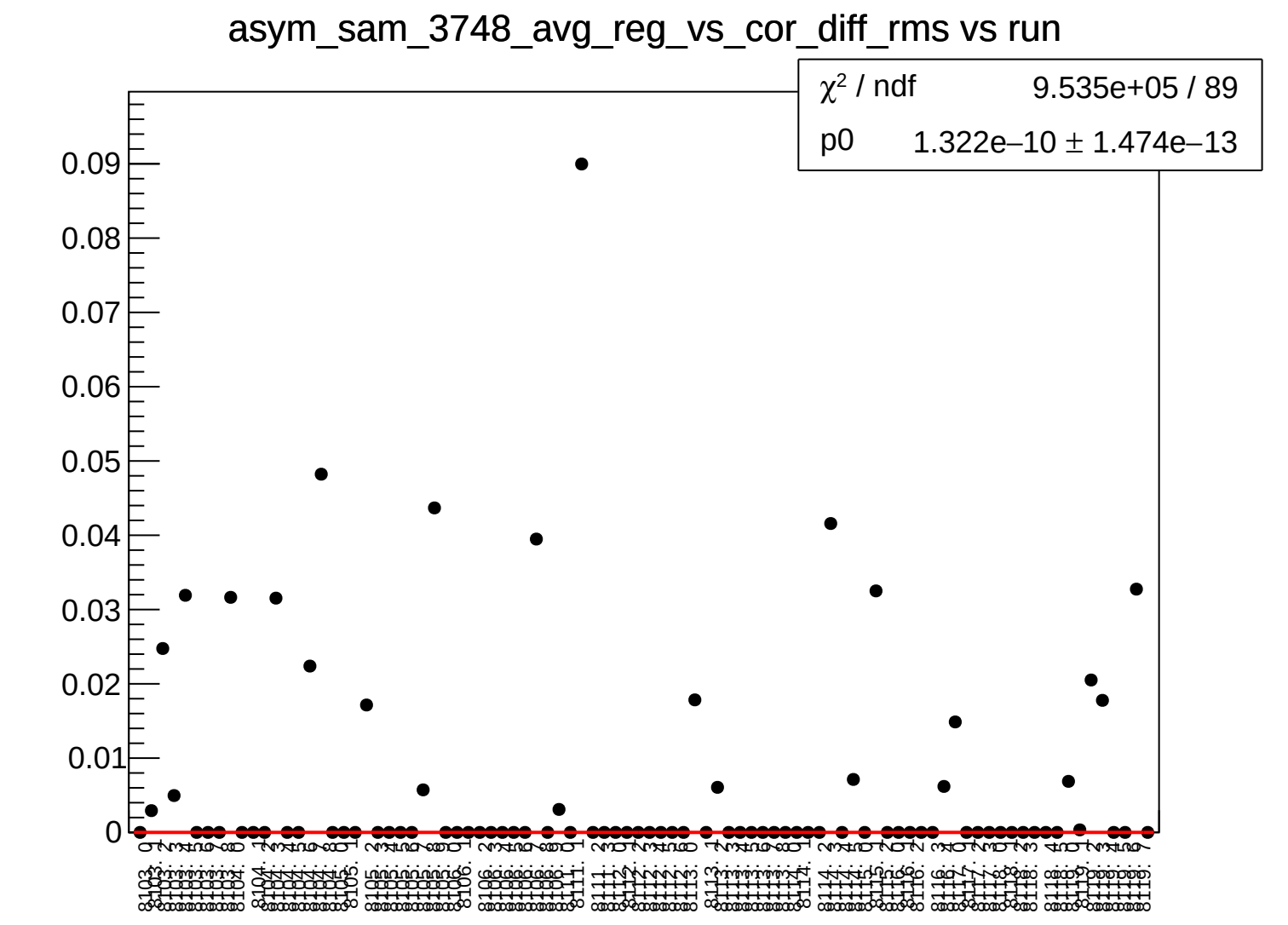

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1954 / 89
p0 1960 ± 1.479
2300
2200
2100
2000
1900
1800

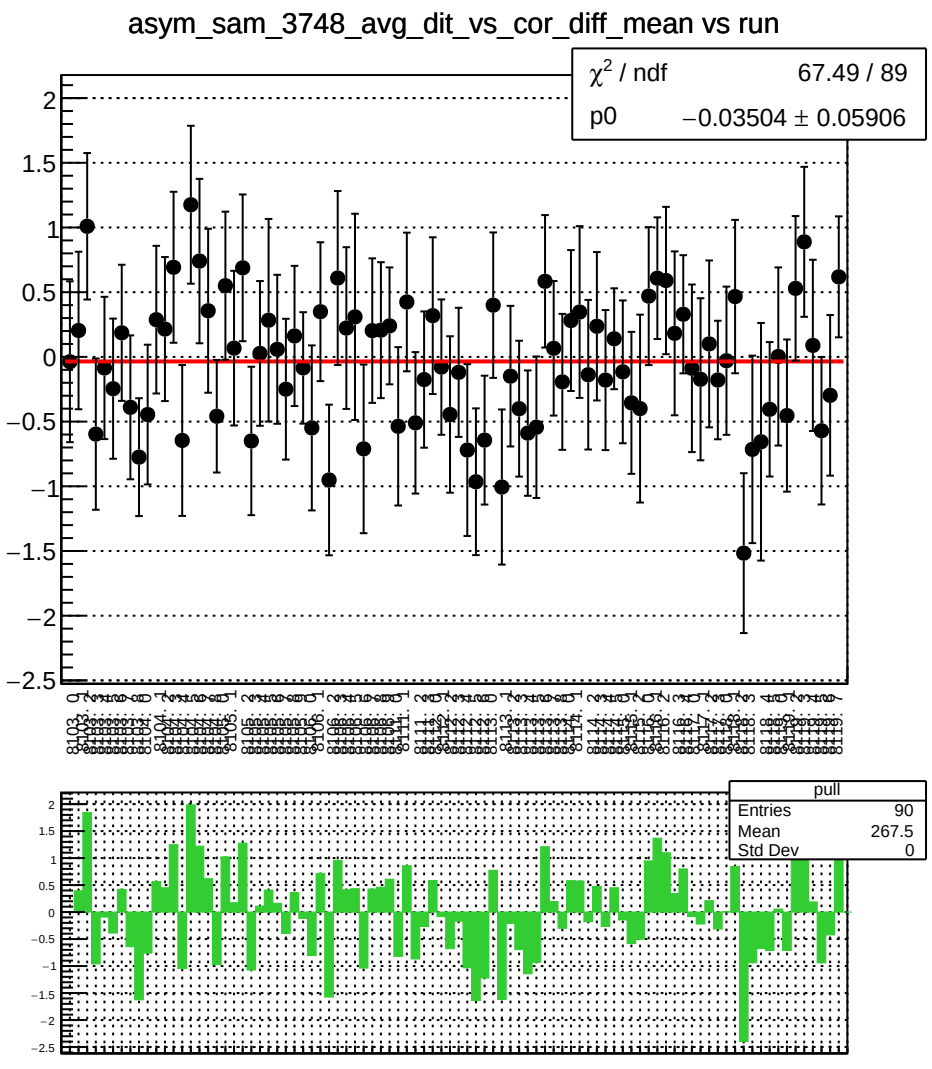

asym_sam_3748_avg_mean vs run
χ² / ndf 96.69 / 89
p0 4513 ± 2102
pull
Entries 90
Mean −4420
Std Dev 0

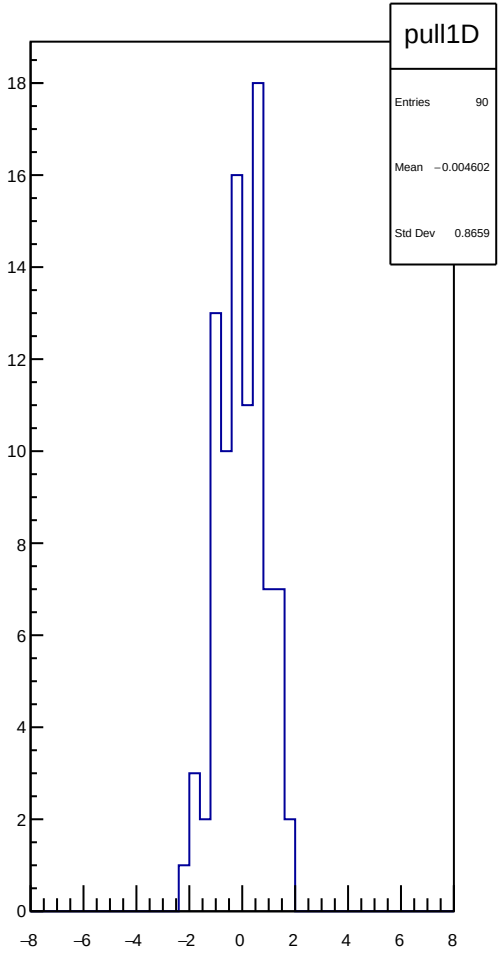

pull1D
Entries 90
Mean −0.0009588
Std Dev 1.037

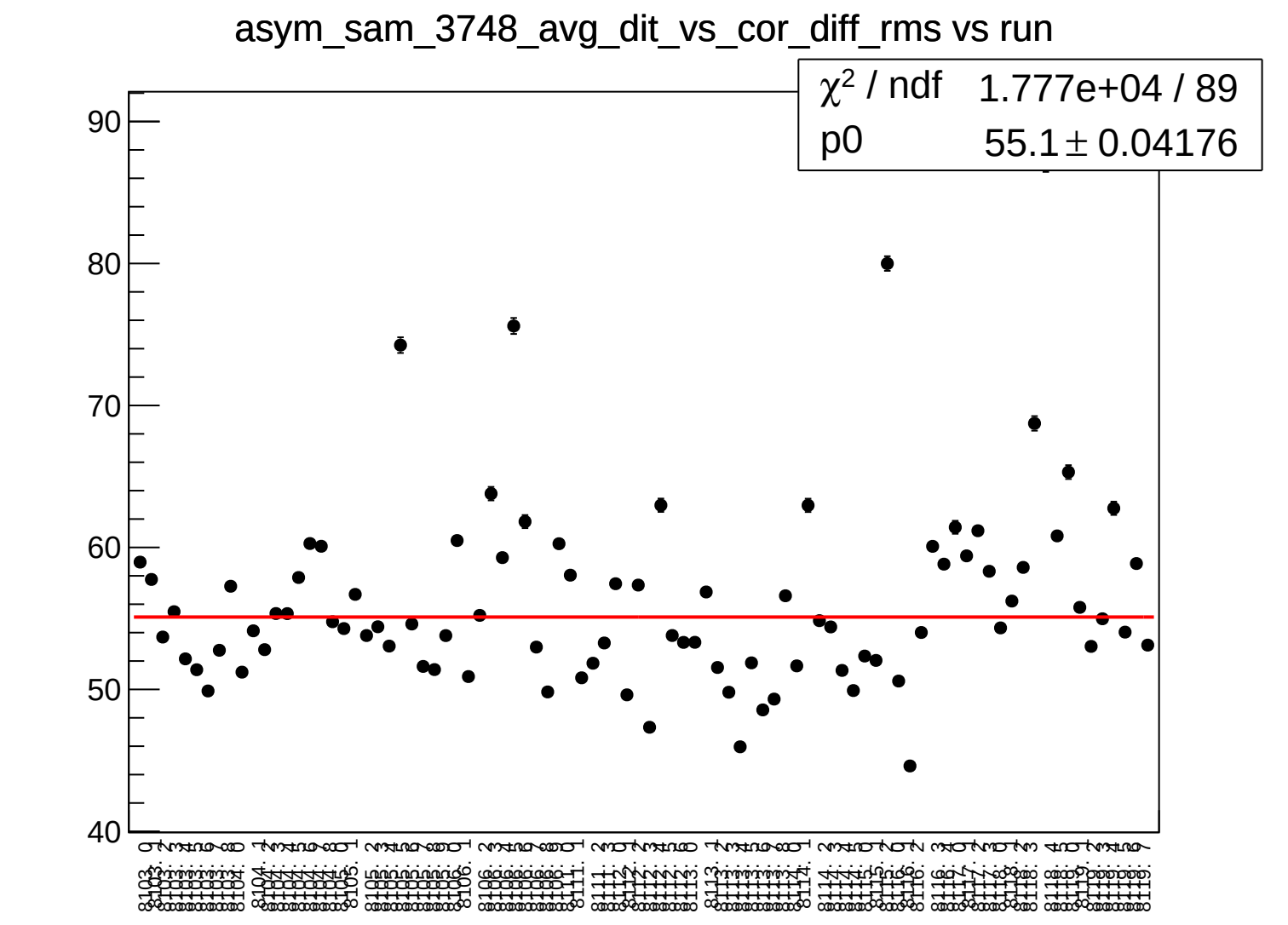

asym_sam_3748_avg_rms vs run
χ² / ndf 2271 / 89
p0 1970 ± 1.487
2200
2100
2000
1900
1800

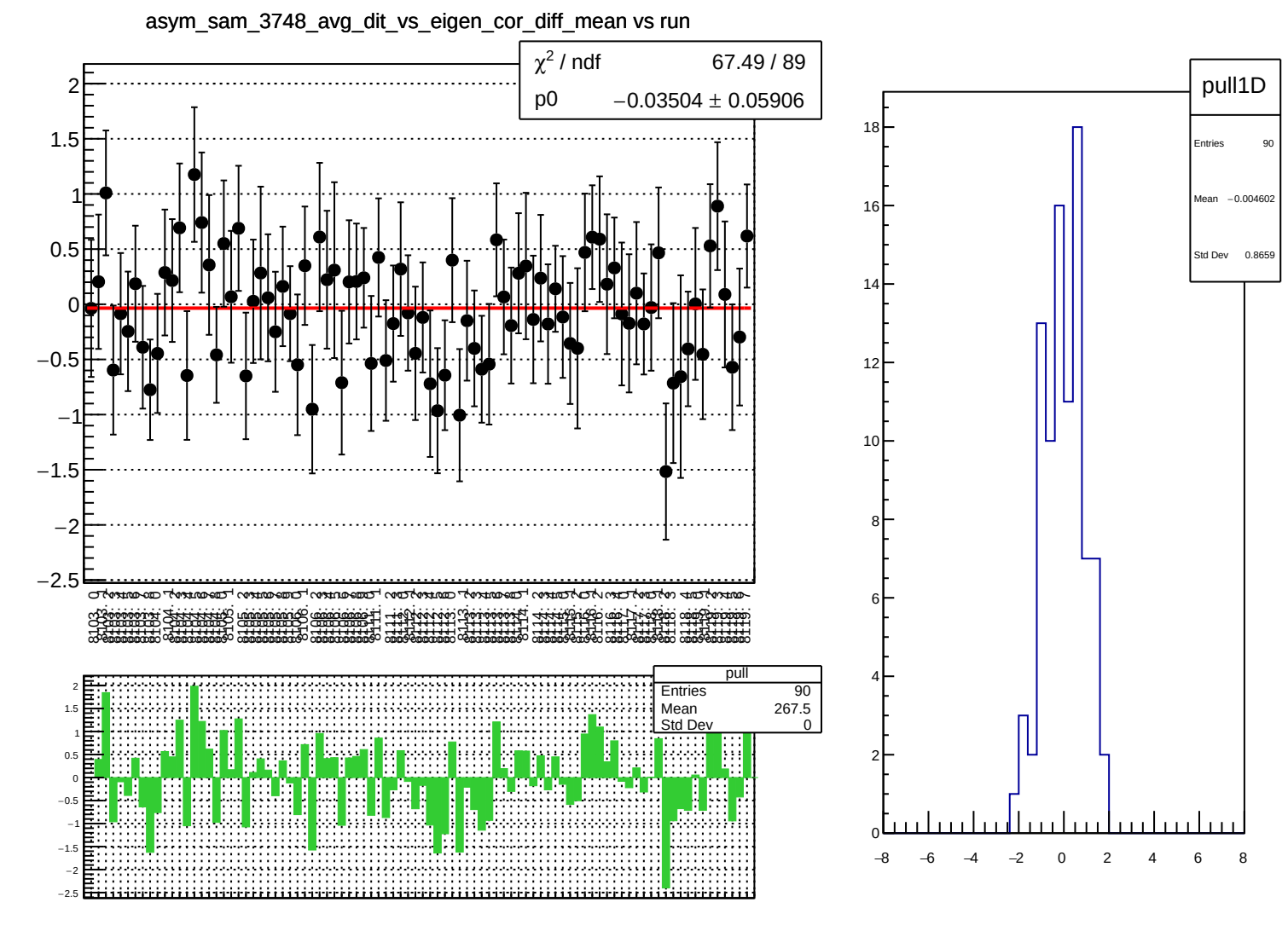

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.28 / 89
p0 5.73e−14 ± 2.084e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 90
Mean −204.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.01575
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

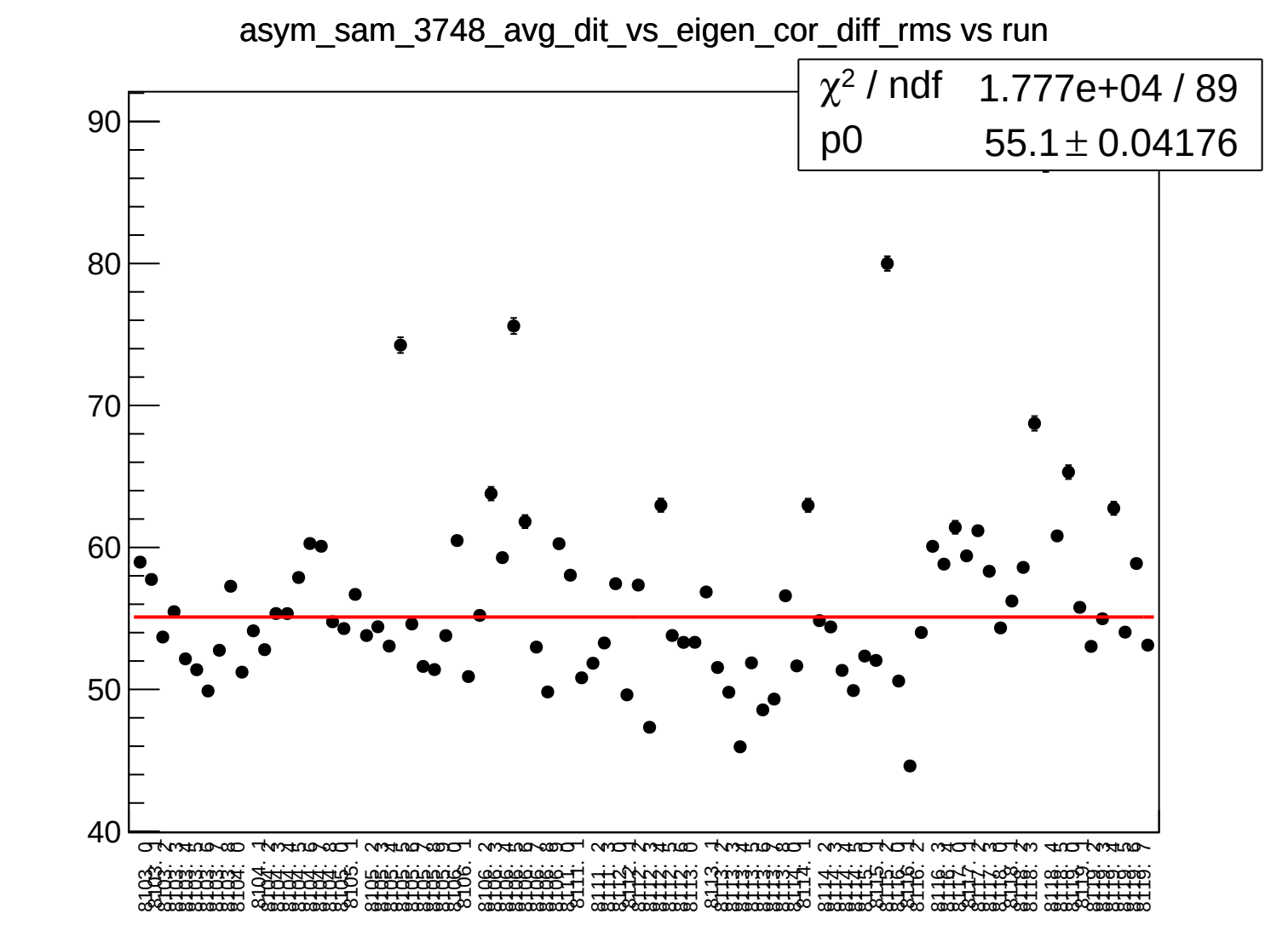

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.535e+05 / 89
p0 1.322e−10 ± 1.474e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

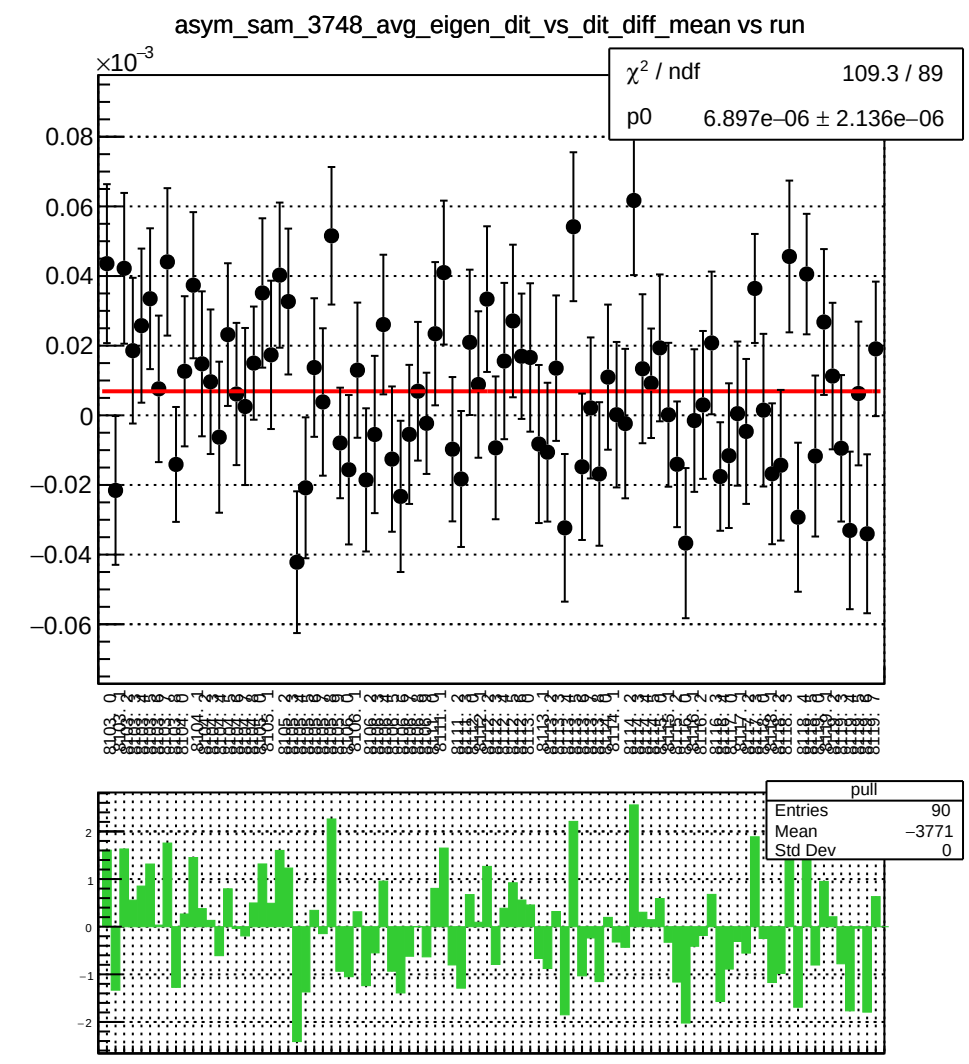

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.49 / 89
p0 −0.03504 ± 0.05906
pull
Entries 90
Mean 267.5
Std Dev 0

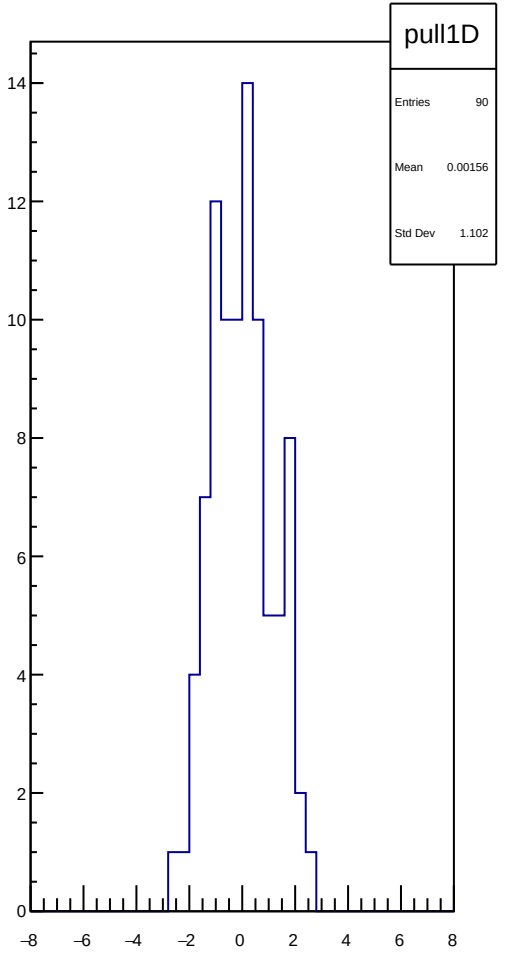

pull1D
Entries 90
Mean −0.004602
Std Dev 0.8659

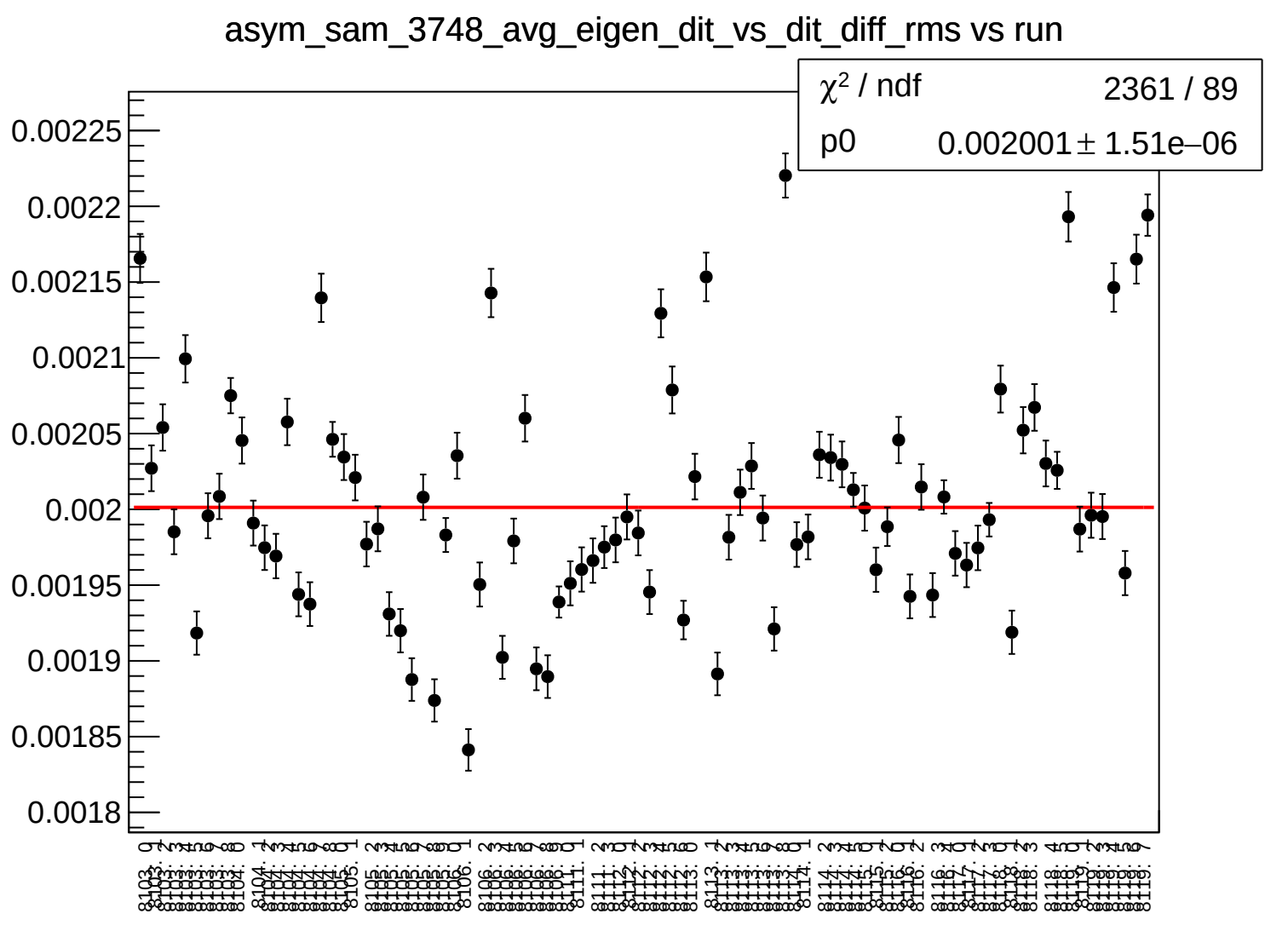

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.777e+04 / 89
p0 55.1 ± 0.04176
90
80
70
60
50
40

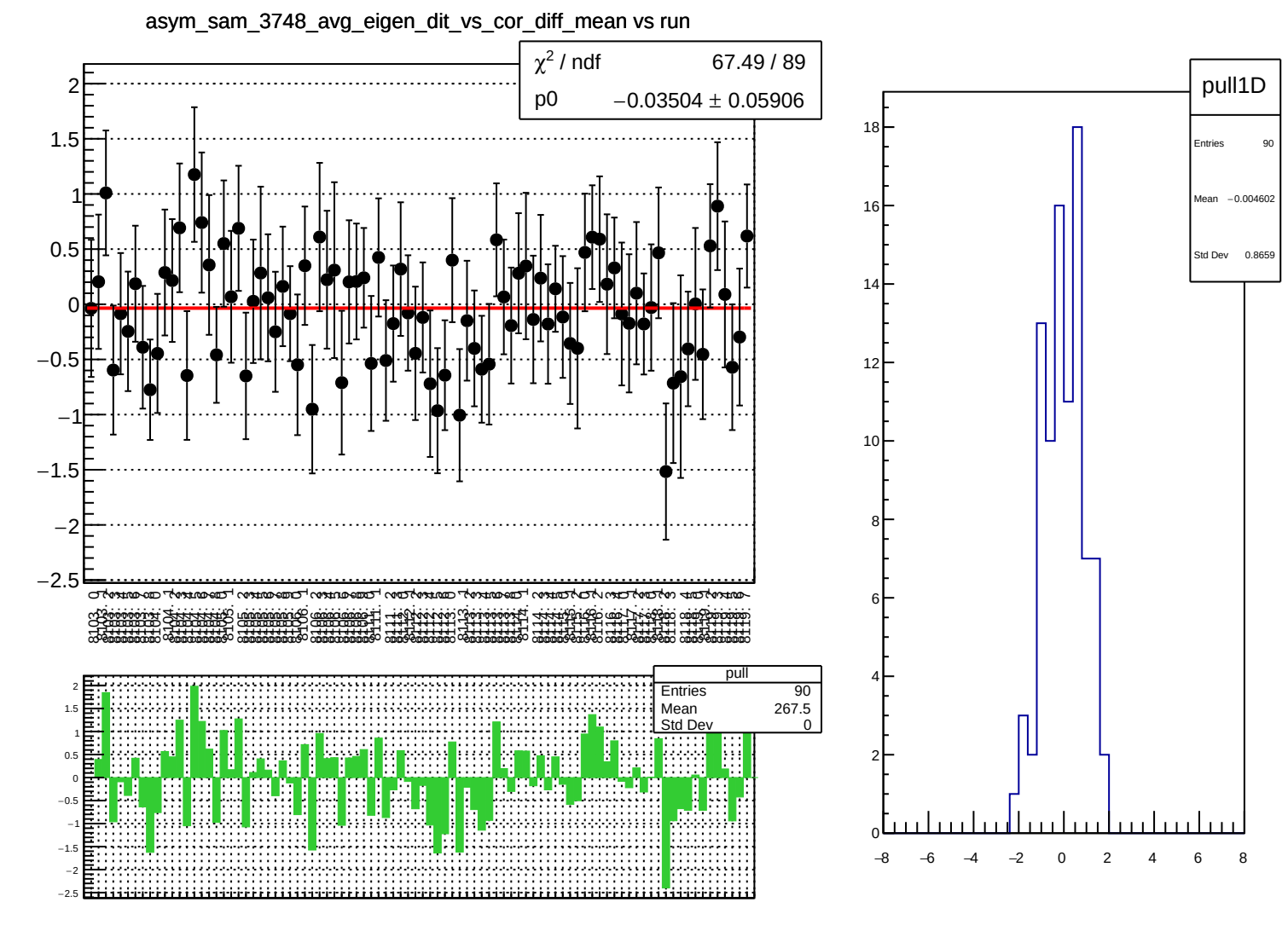

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.49 / 89
p0 −0.03504 ± 0.05906
pull
Entries 90
Mean 267.5
Std Dev 0
pull1D
Entries 90
Mean −0.004602
Std Dev 0.8659

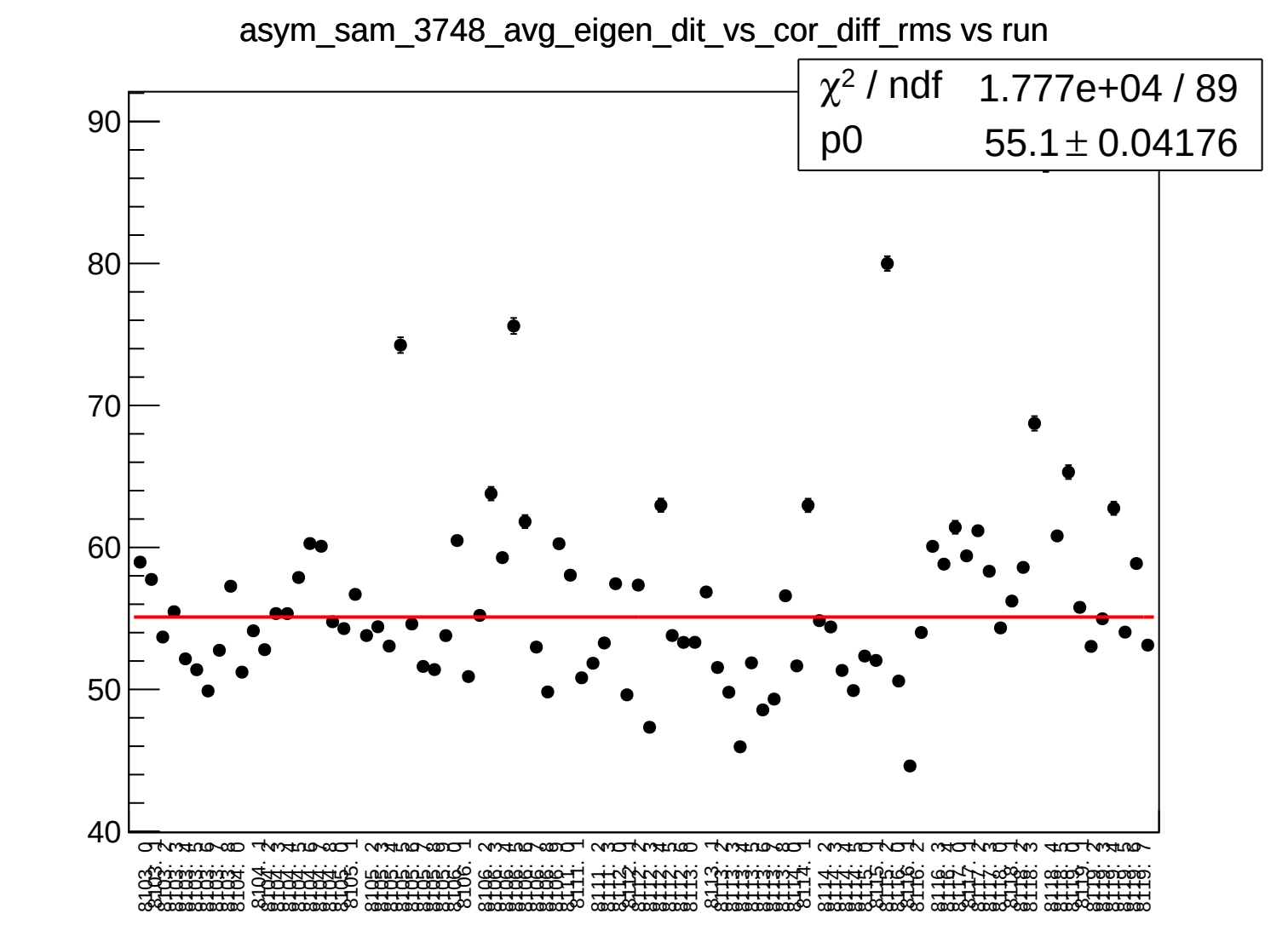

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.777e+04 / 89
p0 55.1 ± 0.04176
90
80
70
60
50
40

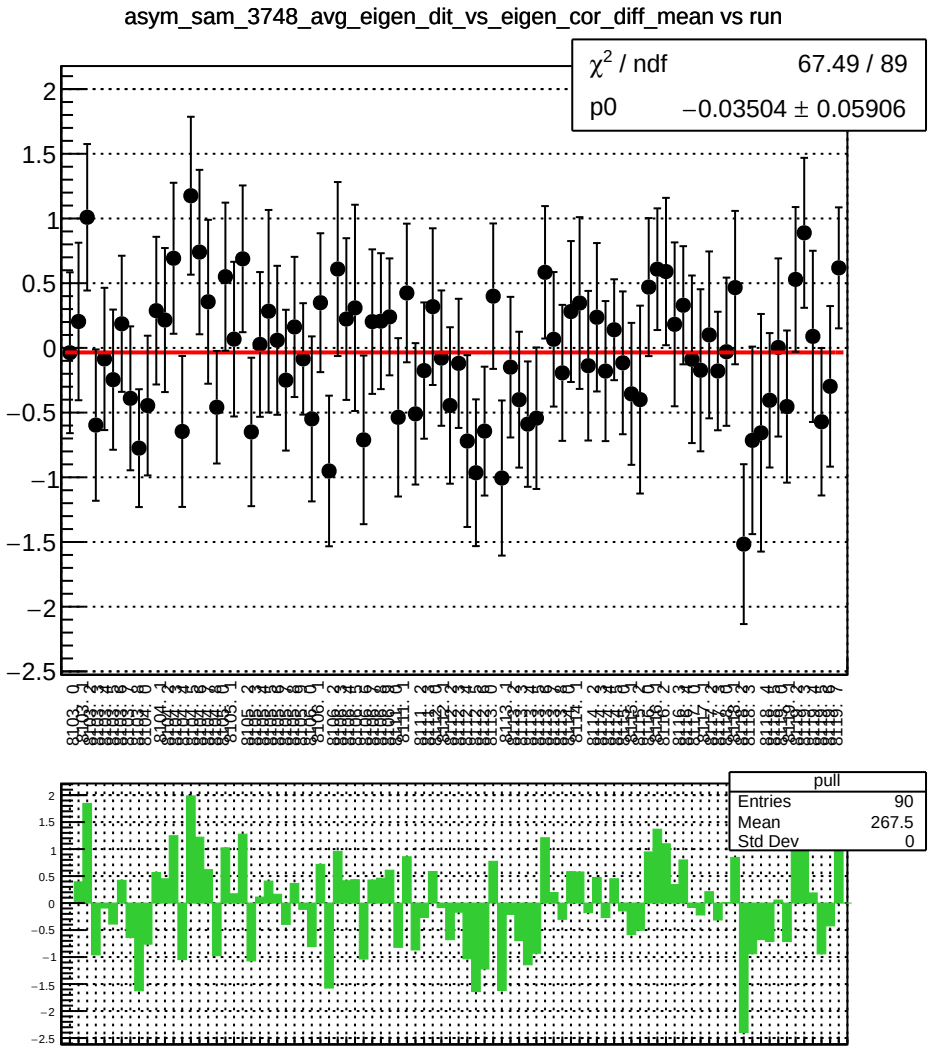

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.3 / 89
p0 6.897e−06 ± 2.136e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean −3771
Std Dev 0
2
1
0
−1
−2

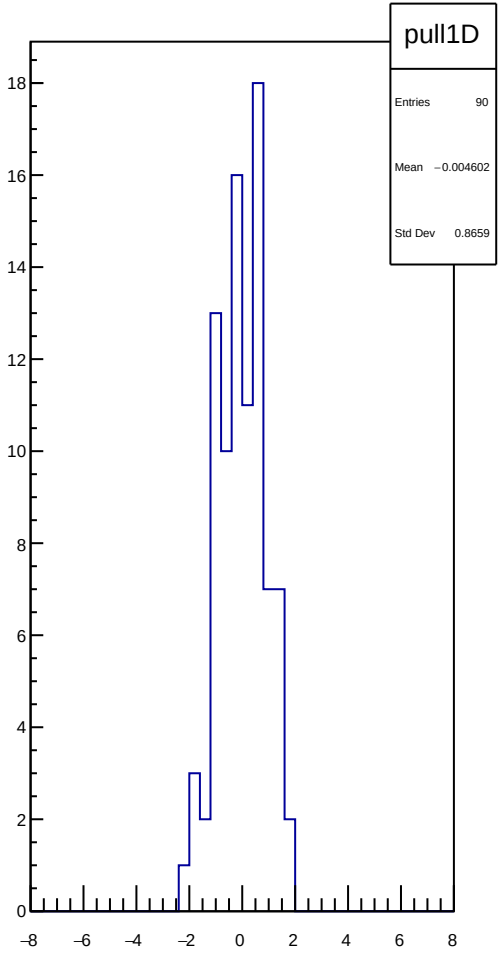

pull1D
Entries 90
Mean 0.00156
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

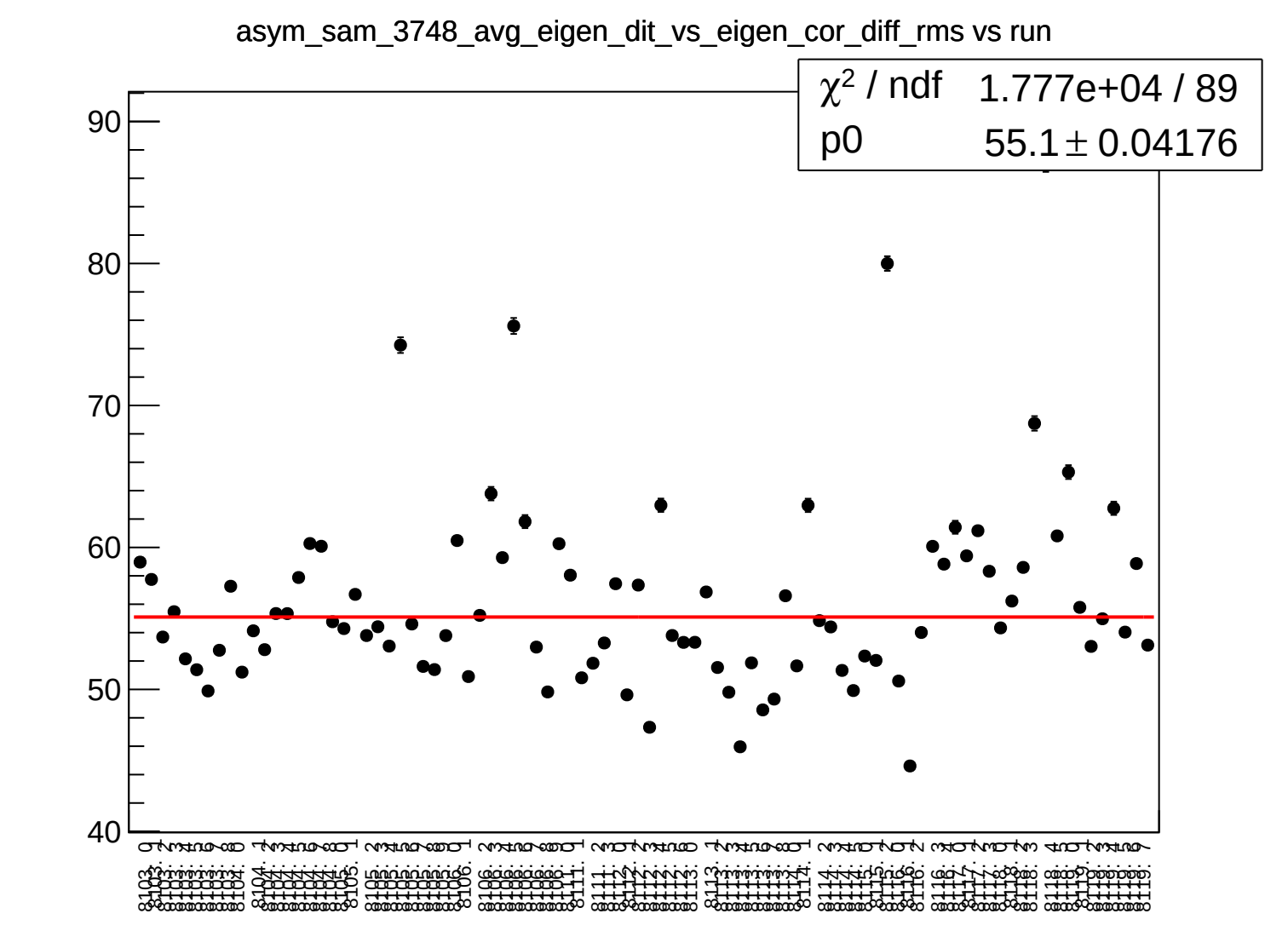

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2361 / 89
p0 0.002001 ± 1.51e–06
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018

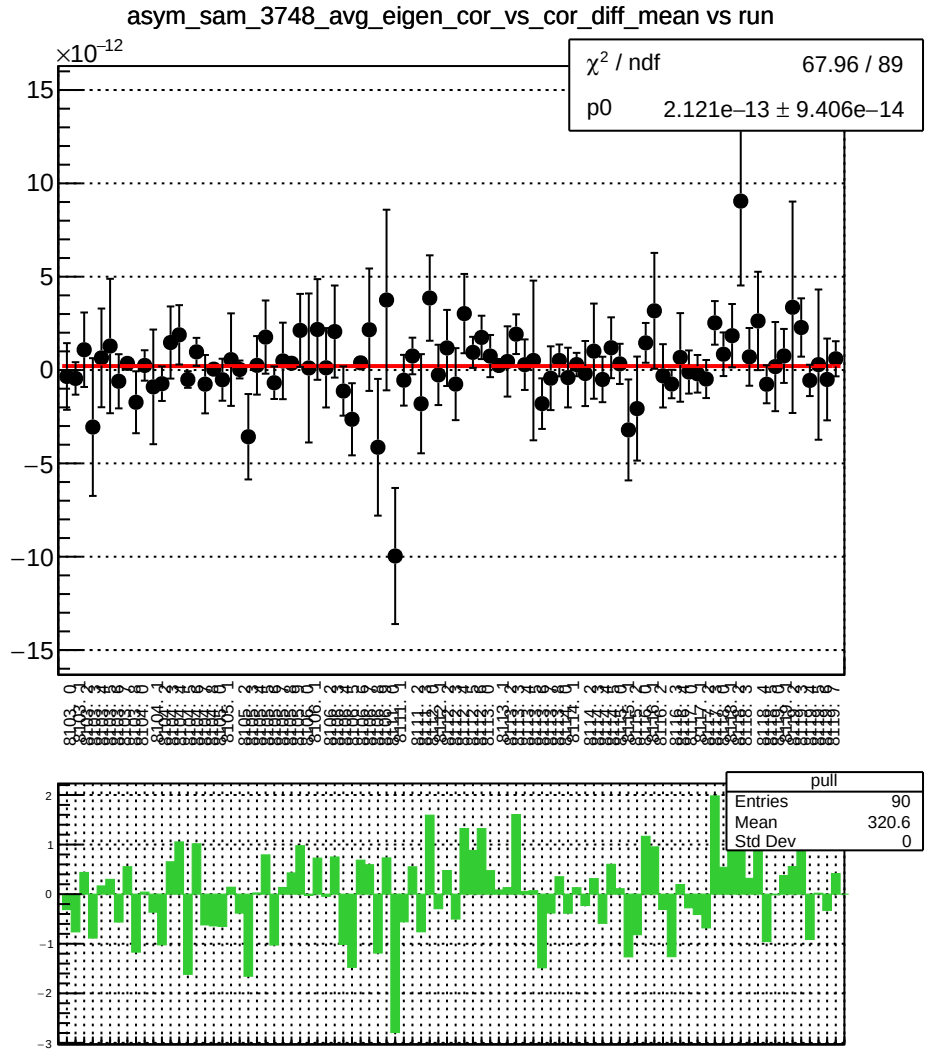

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.49 / 89
p0 −0.03504 ± 0.05906
pull
Entries 90
Mean 267.5
Std Dev 0
pull1D
Entries 90
Mean −0.004602
Std Dev 0.8659

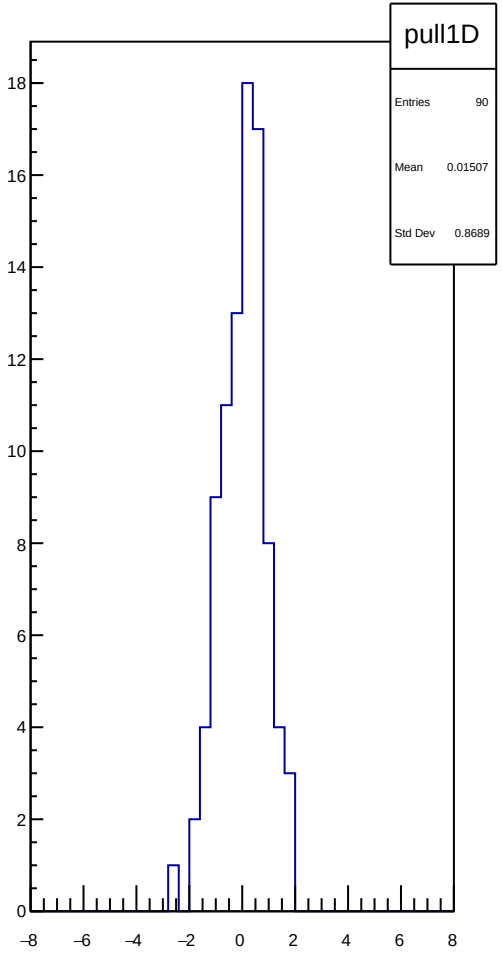

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.777e+04 / 89
p0 55.1 ± 0.04176
90
80
70
60
50
40

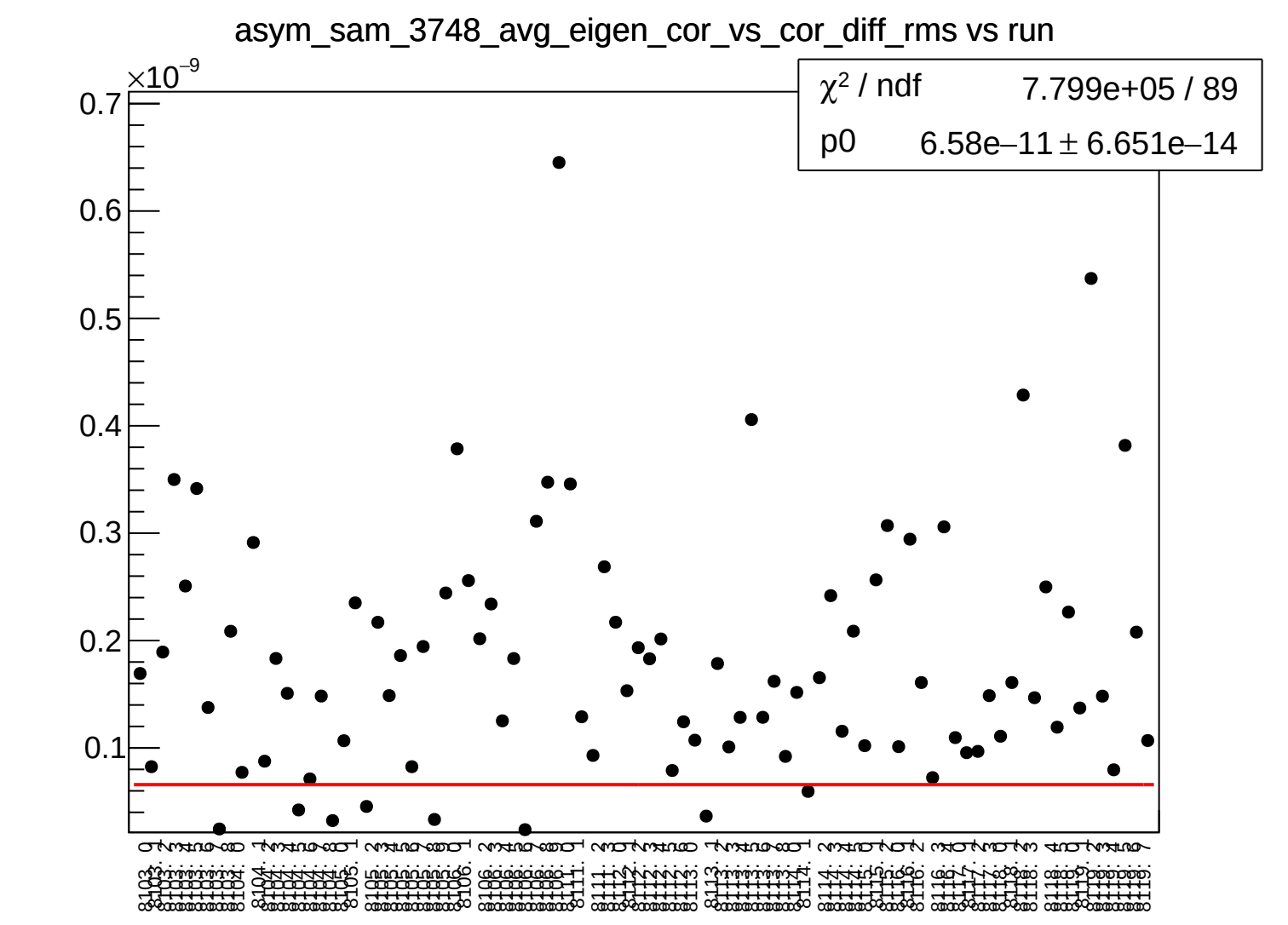

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.49 / 89
p0 −0.03504 ± 0.05906
pull
Entries 90
Mean 267.5
Std Dev 0

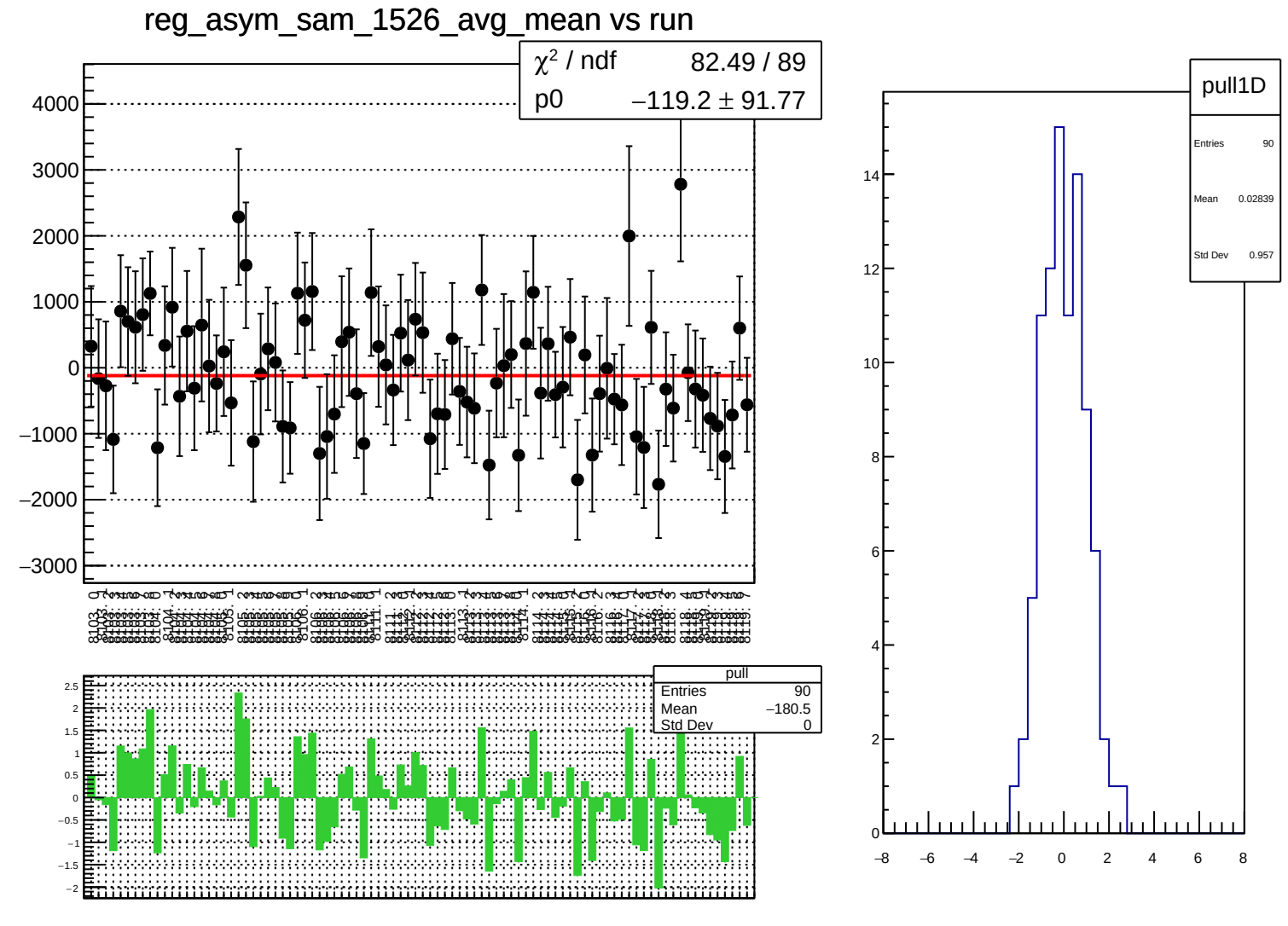

pull1D
Entries 90
Mean −0.004602
Std Dev 0.8659

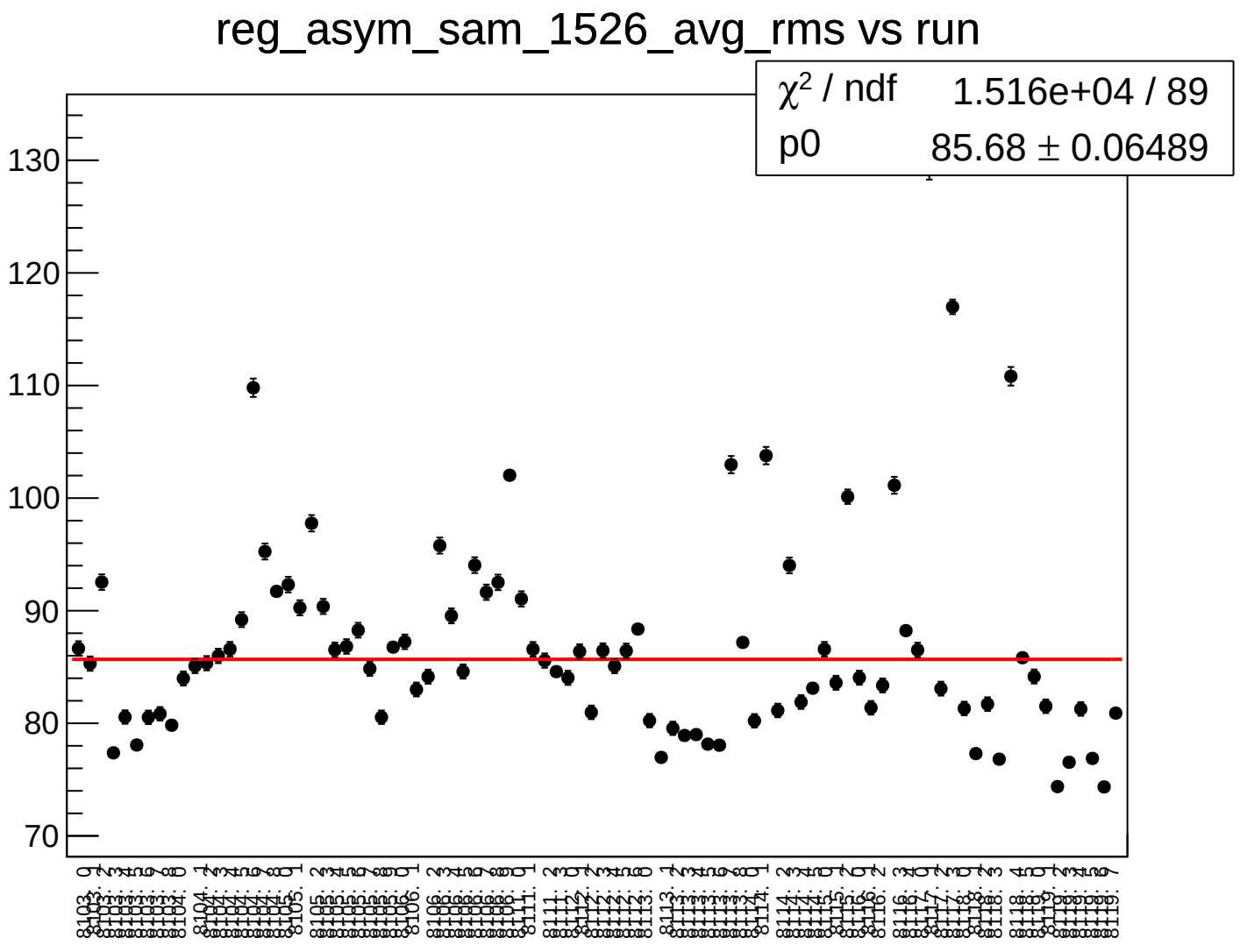

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.777e+04 / 89
p0 55.1 ± 0.04176
90
80
70
60
50
40

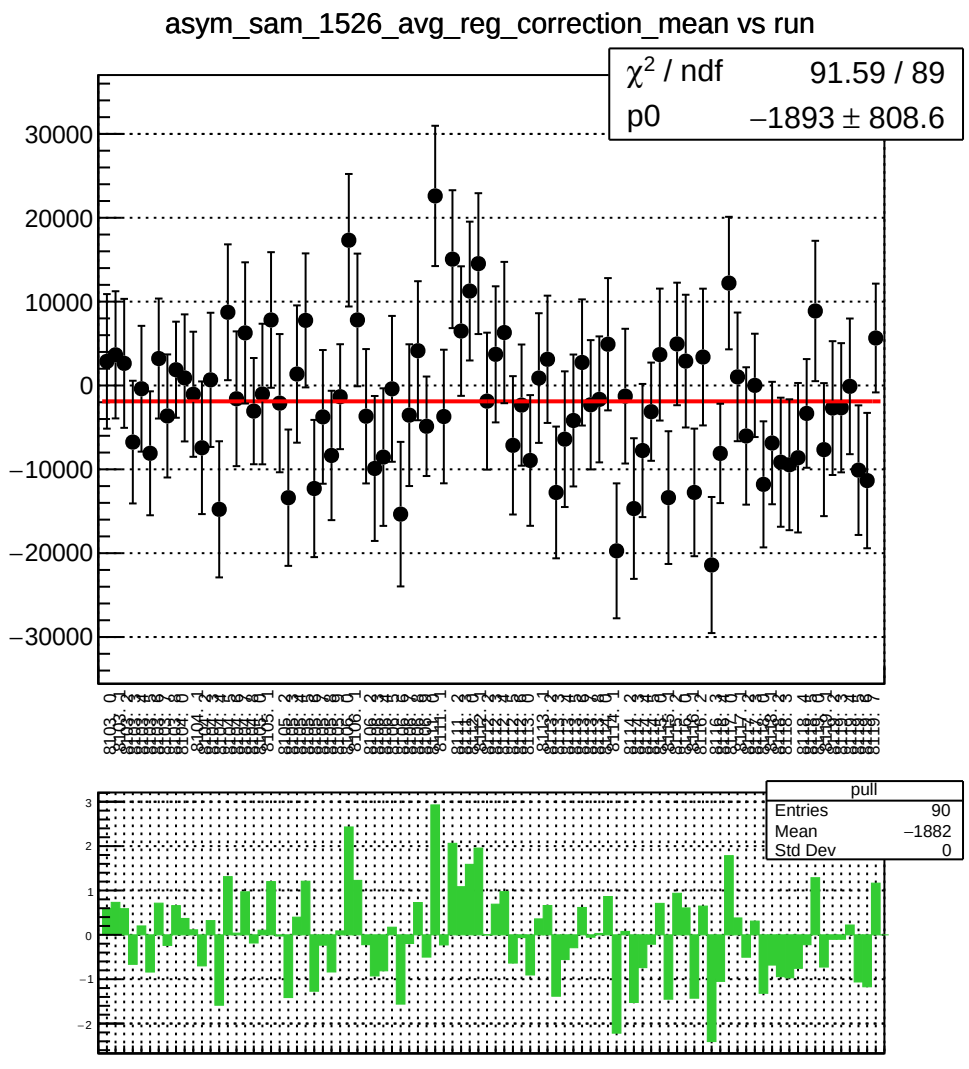

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 67.96 / 89
p0 2.121e−13 ± 9.406e−14
pull
Entries 90
Mean 320.6
Std Dev 0

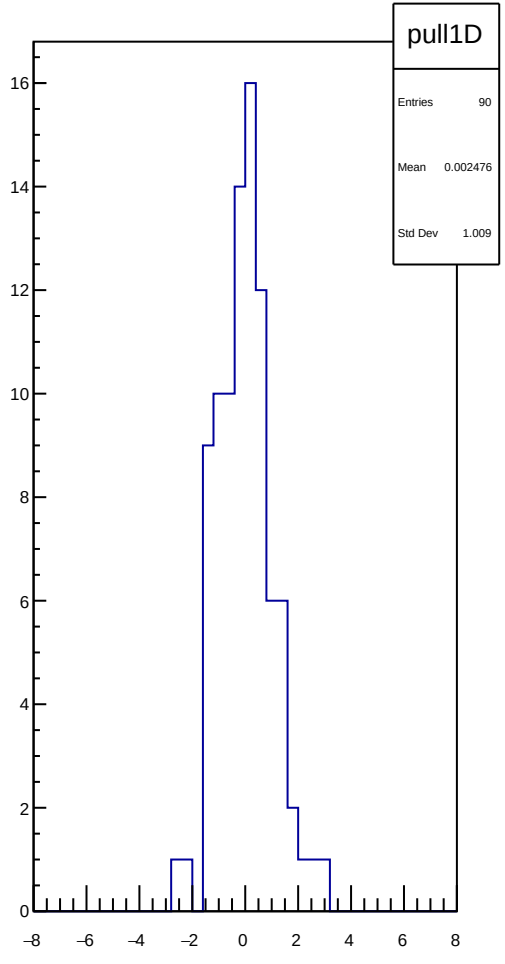

pull1D
Entries 90
Mean 0.01507
Std Dev 0.8689

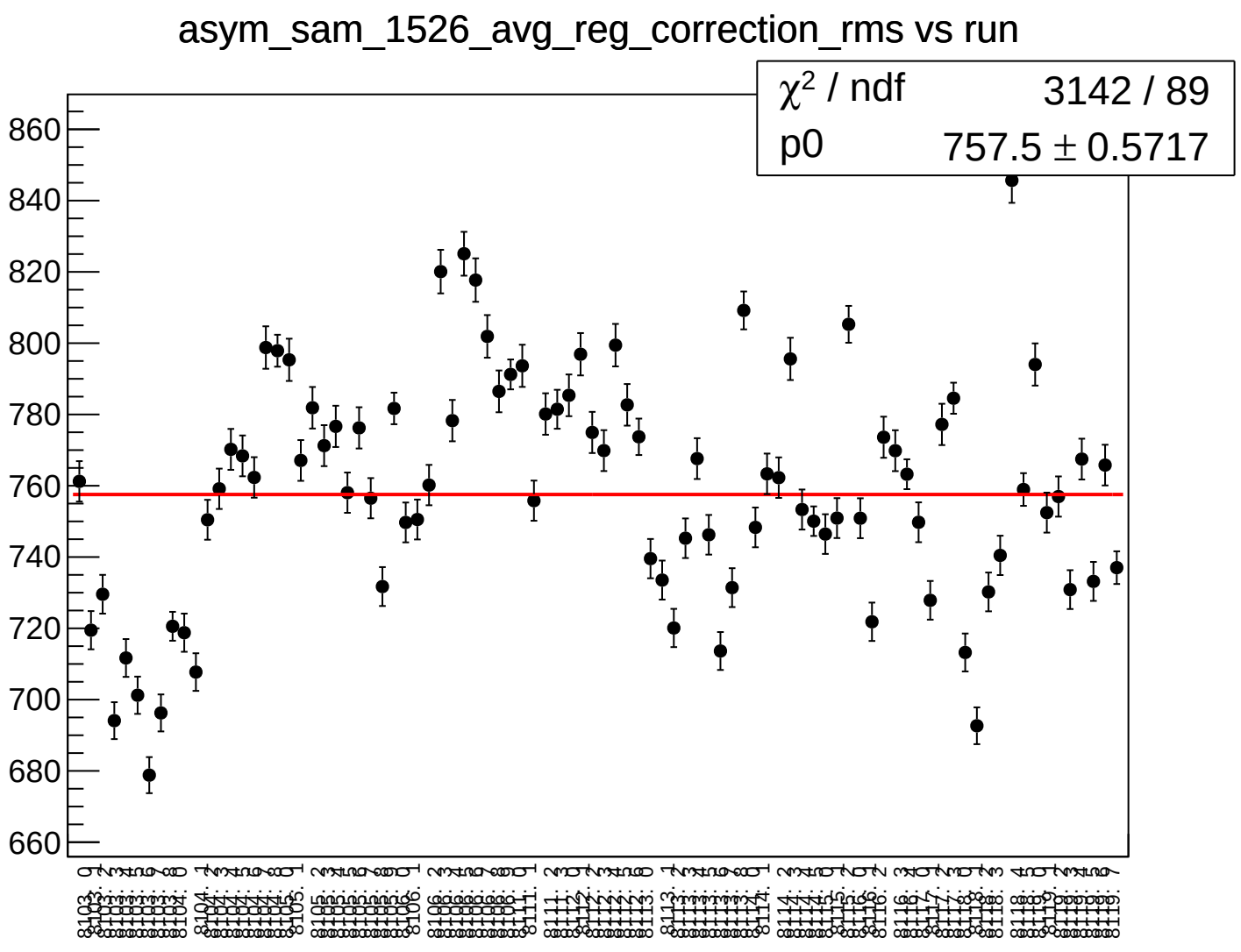

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.799e+05 / 89
p0 6.58e−11 ± 6.651e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

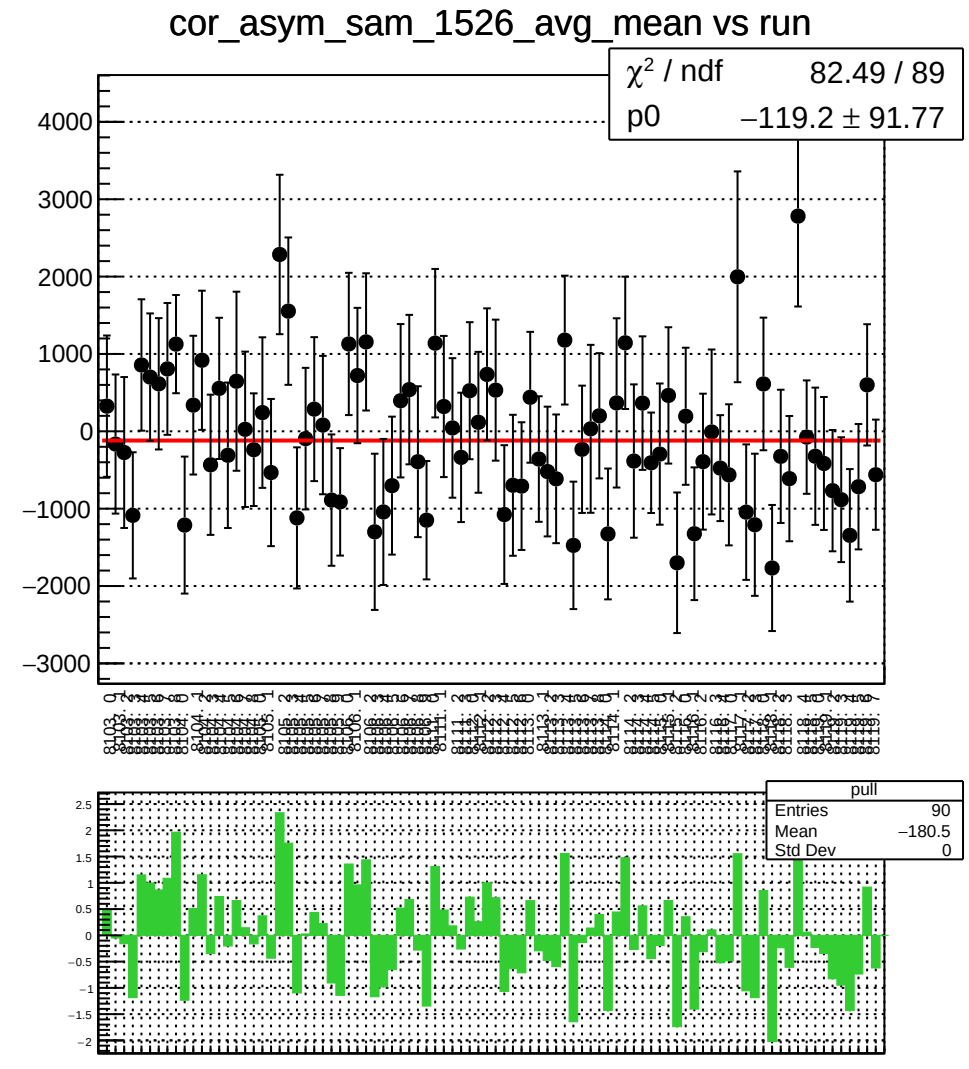

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 82.49 / 89
p0 −119.2 ± 91.77
pull
Entries 90
Mean −180.5
Std Dev 0
pull1D
Entries 90
Mean 0.02839
Std Dev 0.957

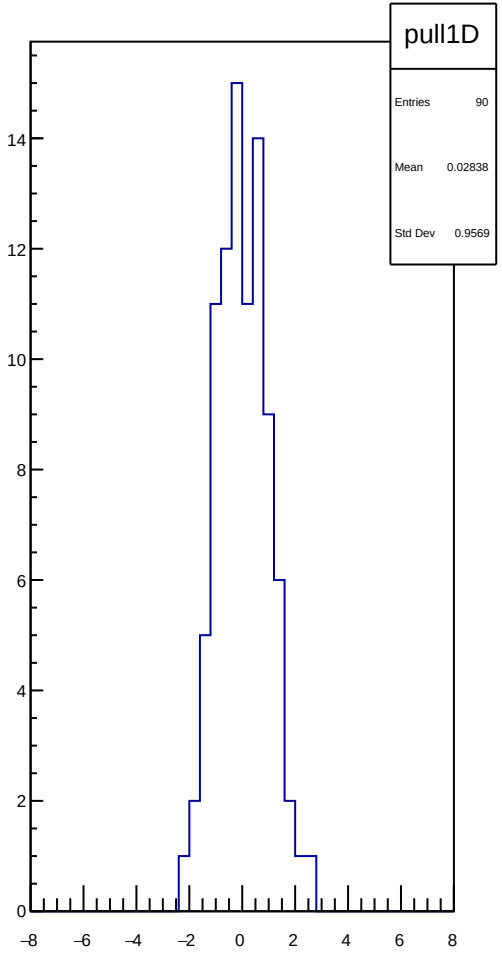

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 1.516e+04 / 89
p0 85.68 ± 0.06489
130
120
110
100
90
80
70

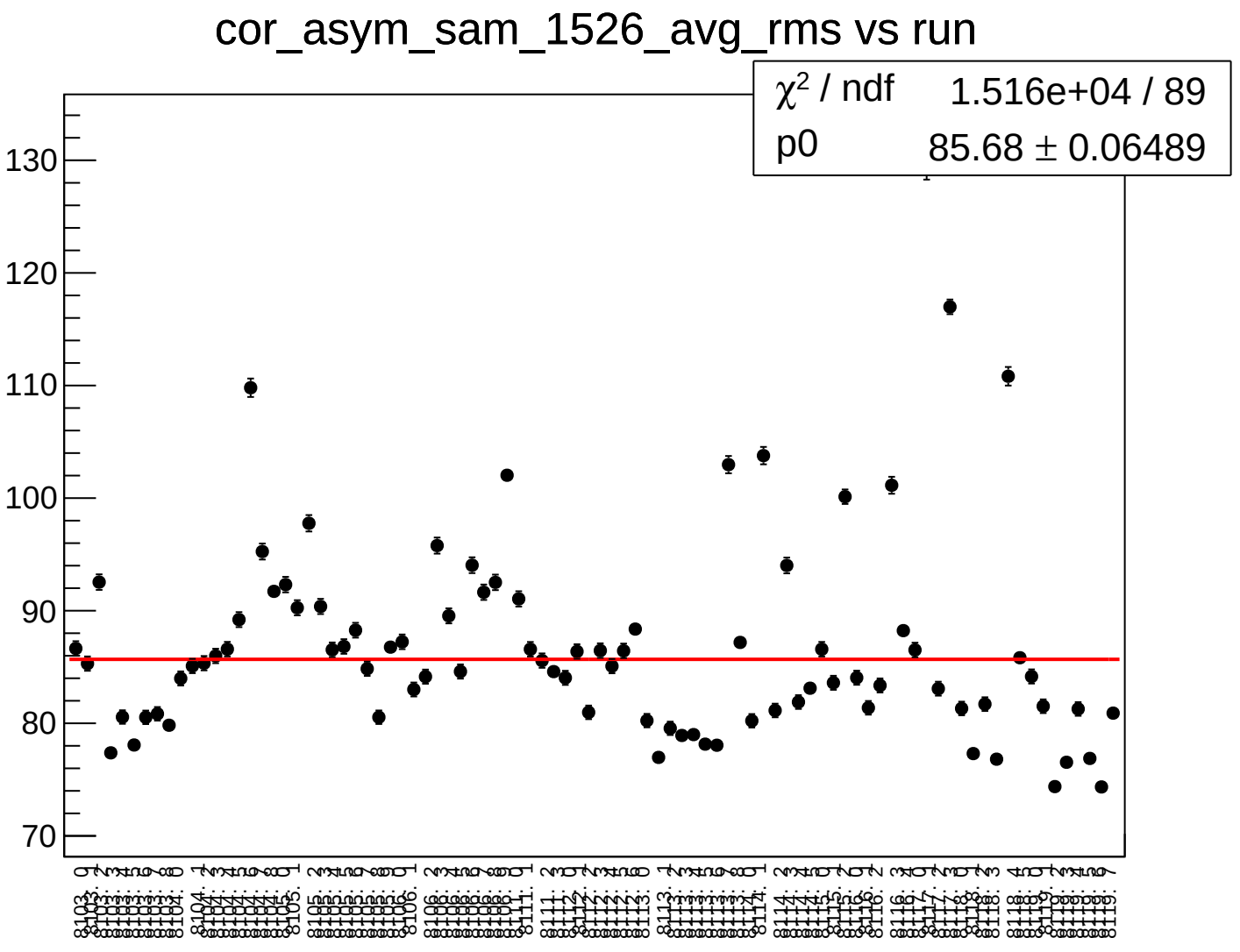

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 91.59 / 89
p0 −1893 ± 808.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −1882
Std Dev 0
3
2
1
0
−1
−2

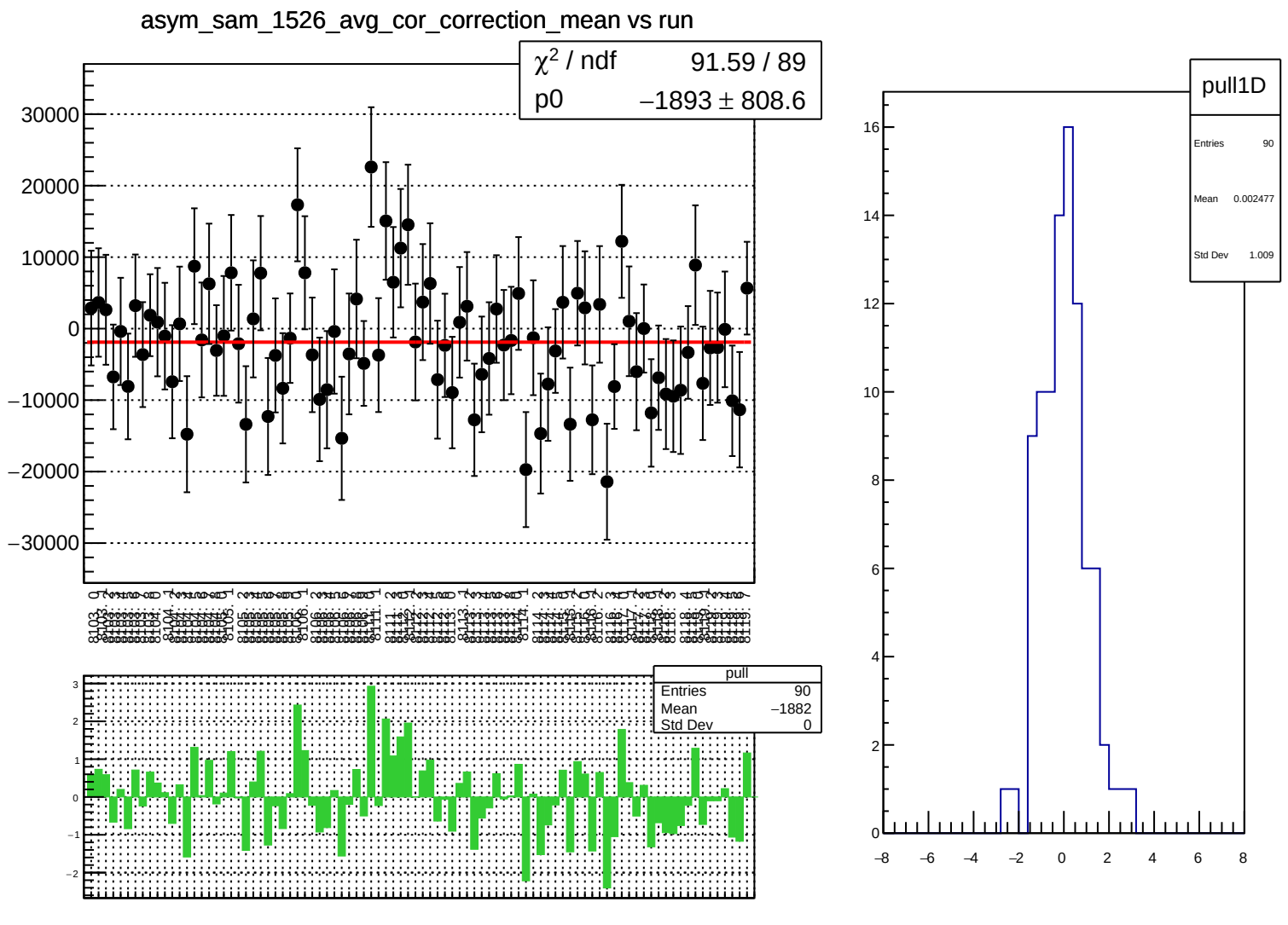

pull1D
Entries 90
Mean 0.002476
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

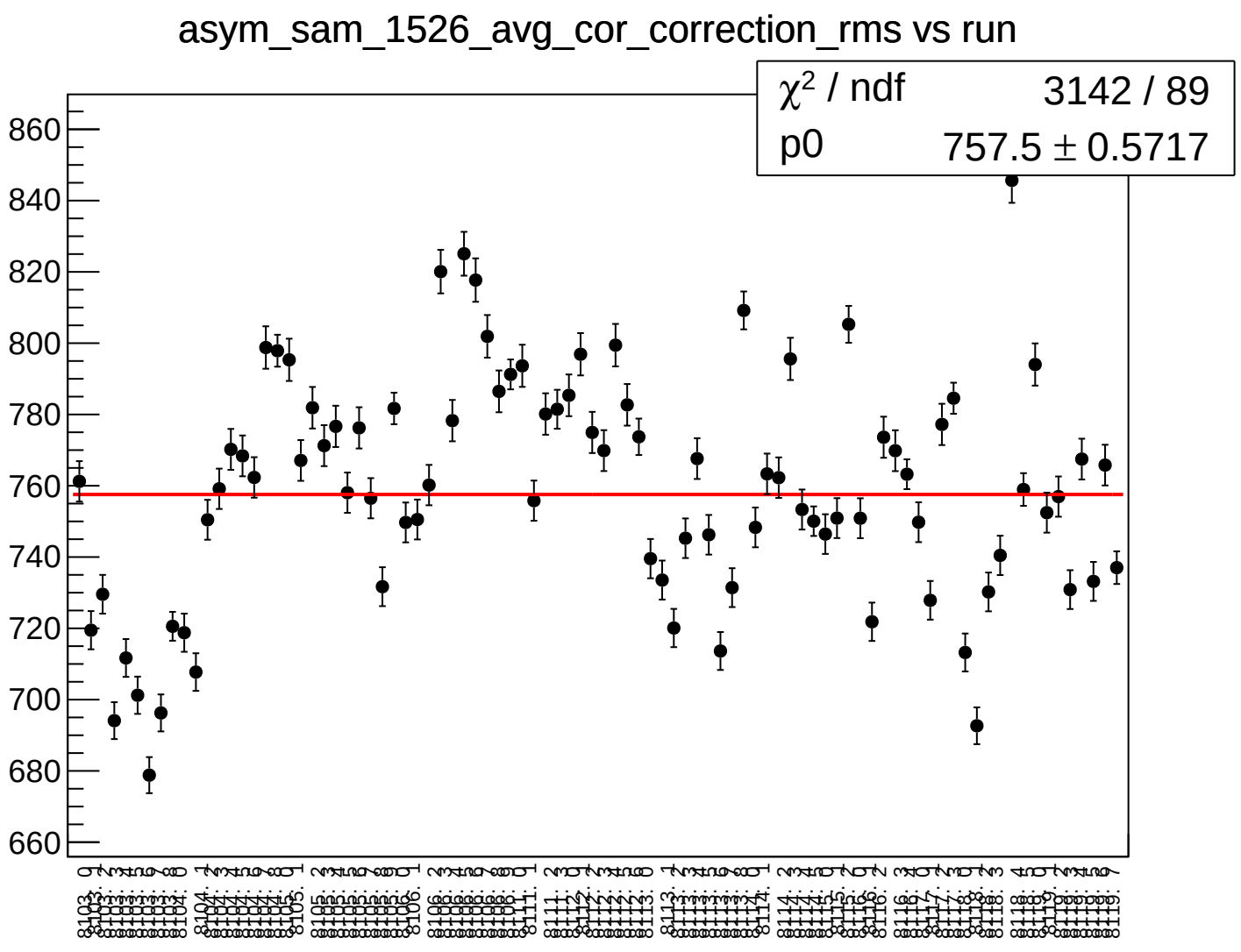

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 3142 / 89
p0 757.5 ± 0.5717
860
840
820
800
780
760
740
720
700
680
660

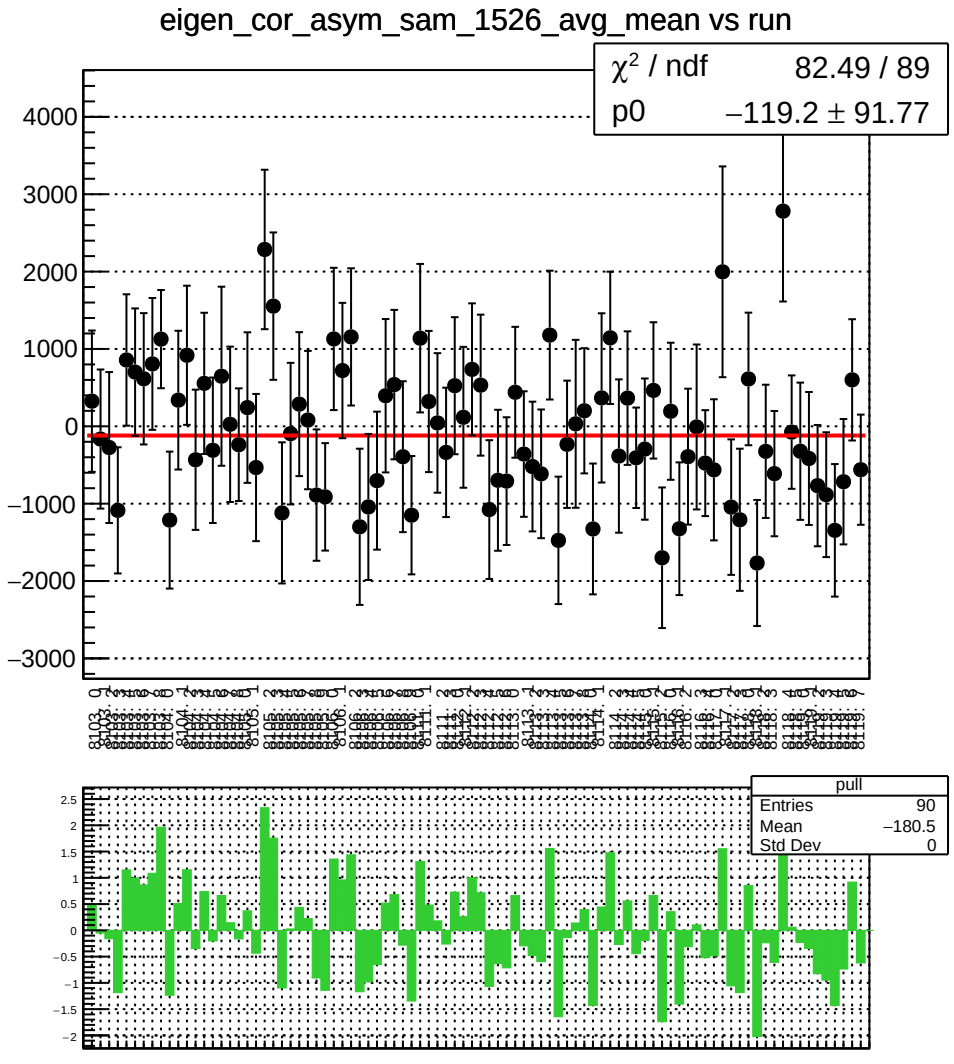

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 82.49 / 89
p0 −119.2 ± 91.77
pull
Entries 90
Mean −180.5
Std Dev 0

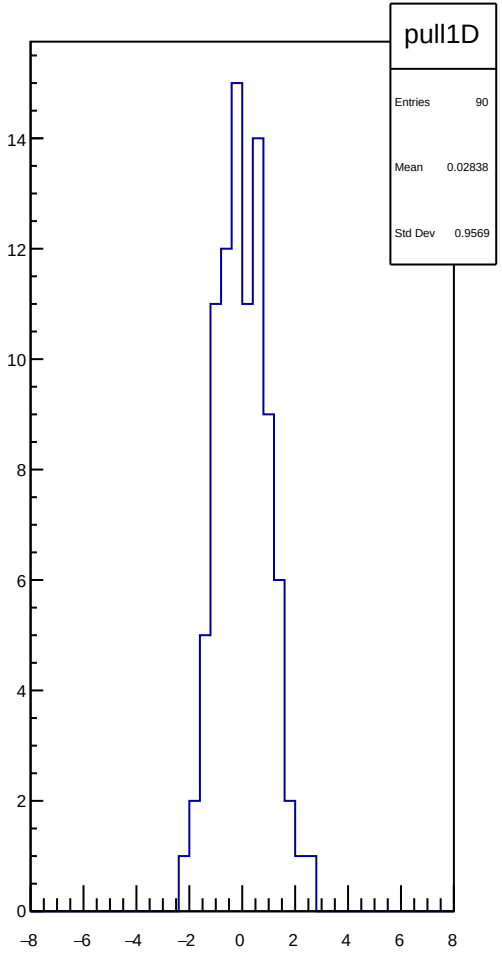

pull1D
Entries 90
Mean 0.02838
Std Dev 0.9569

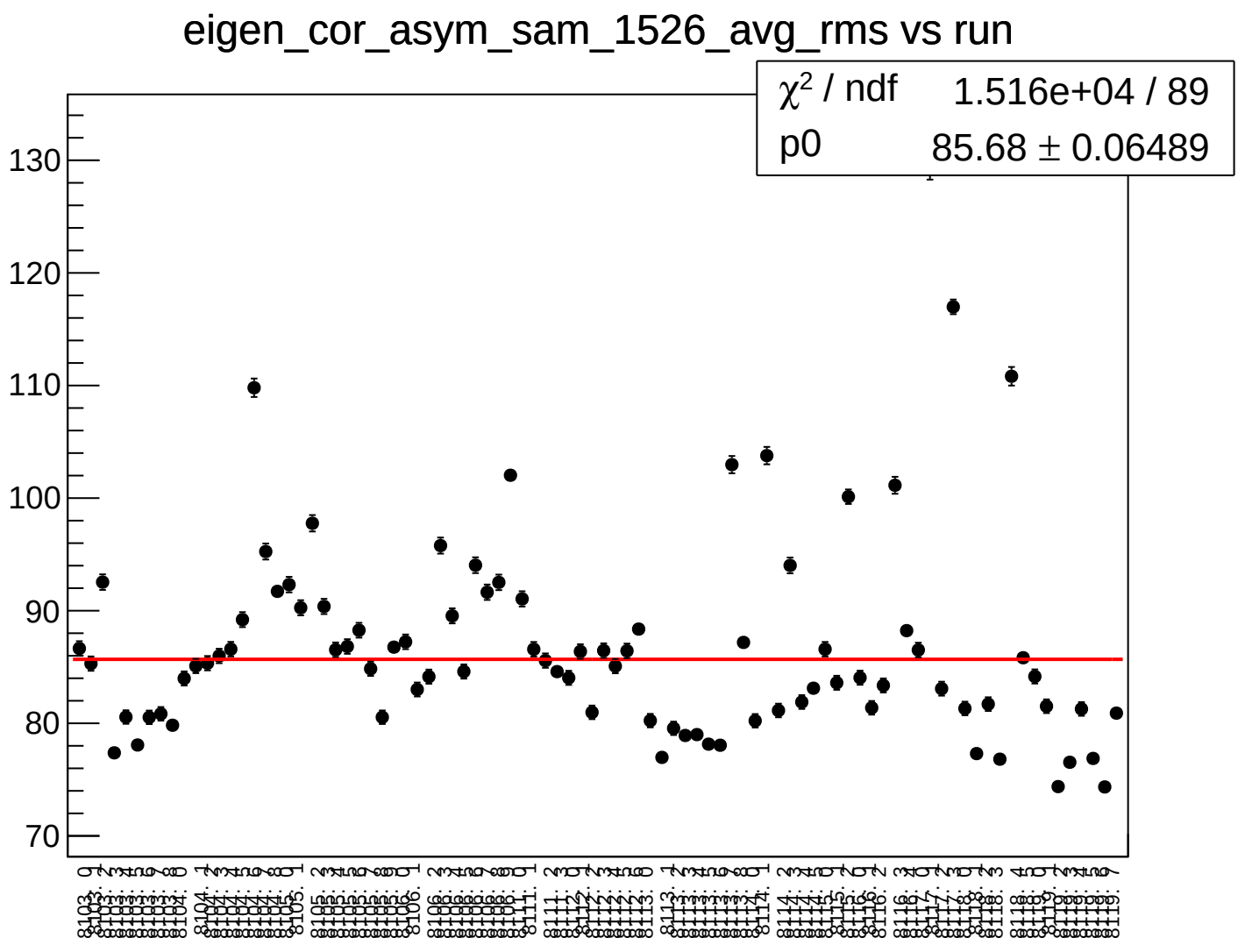

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.516e+04 / 89
p0 85.68 ± 0.06489
130
120
110
100
90
80
70

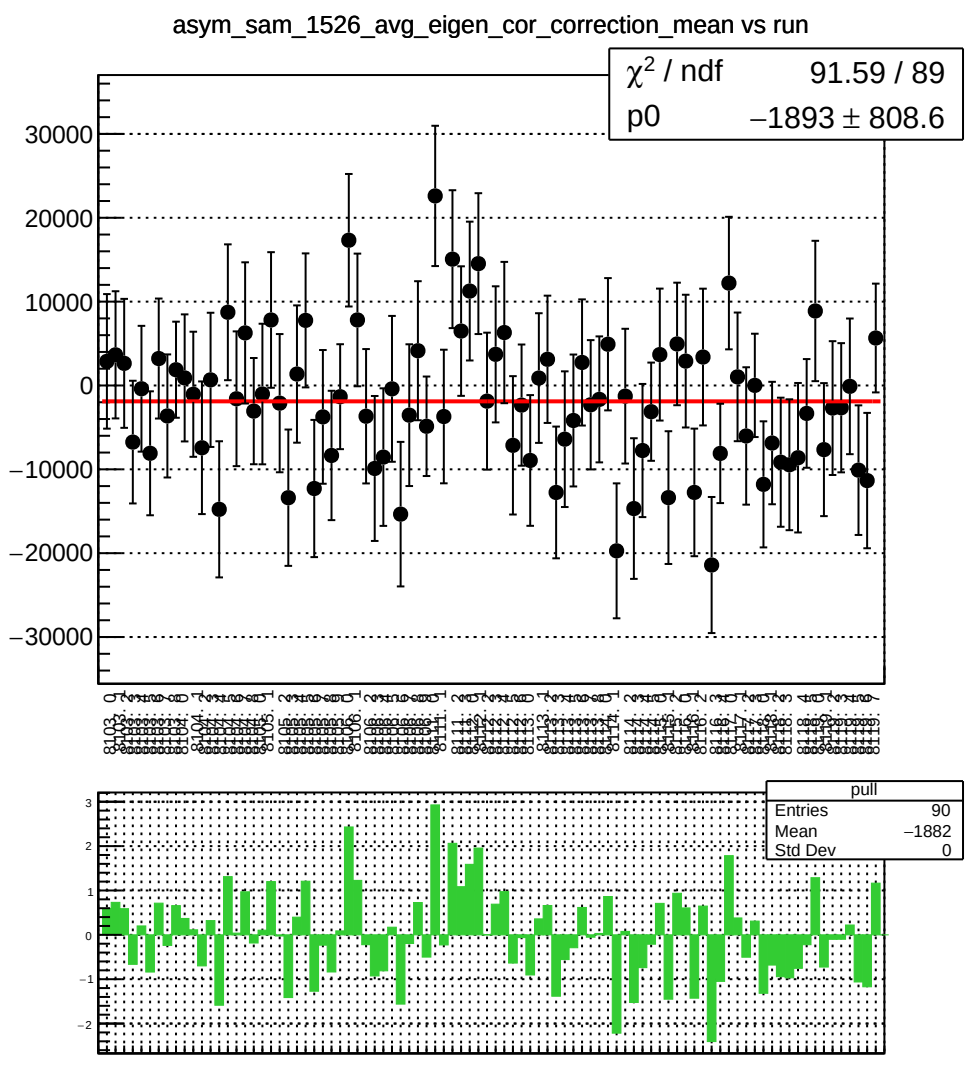

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 91.59 / 89
p0 −1893 ± 808.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −1882
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.002477
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

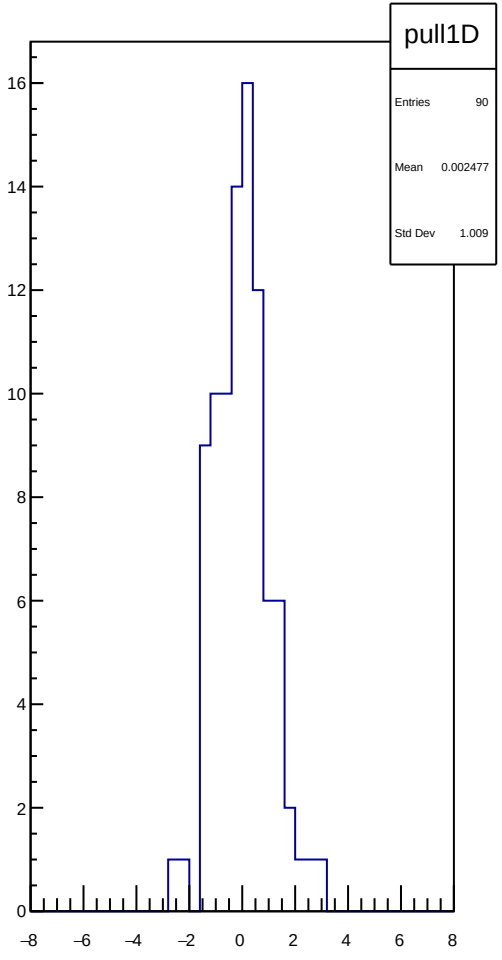

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 3142 / 89
p0 757.5 ± 0.5717
860
840
820
800
780
760
740
720
700
680
660

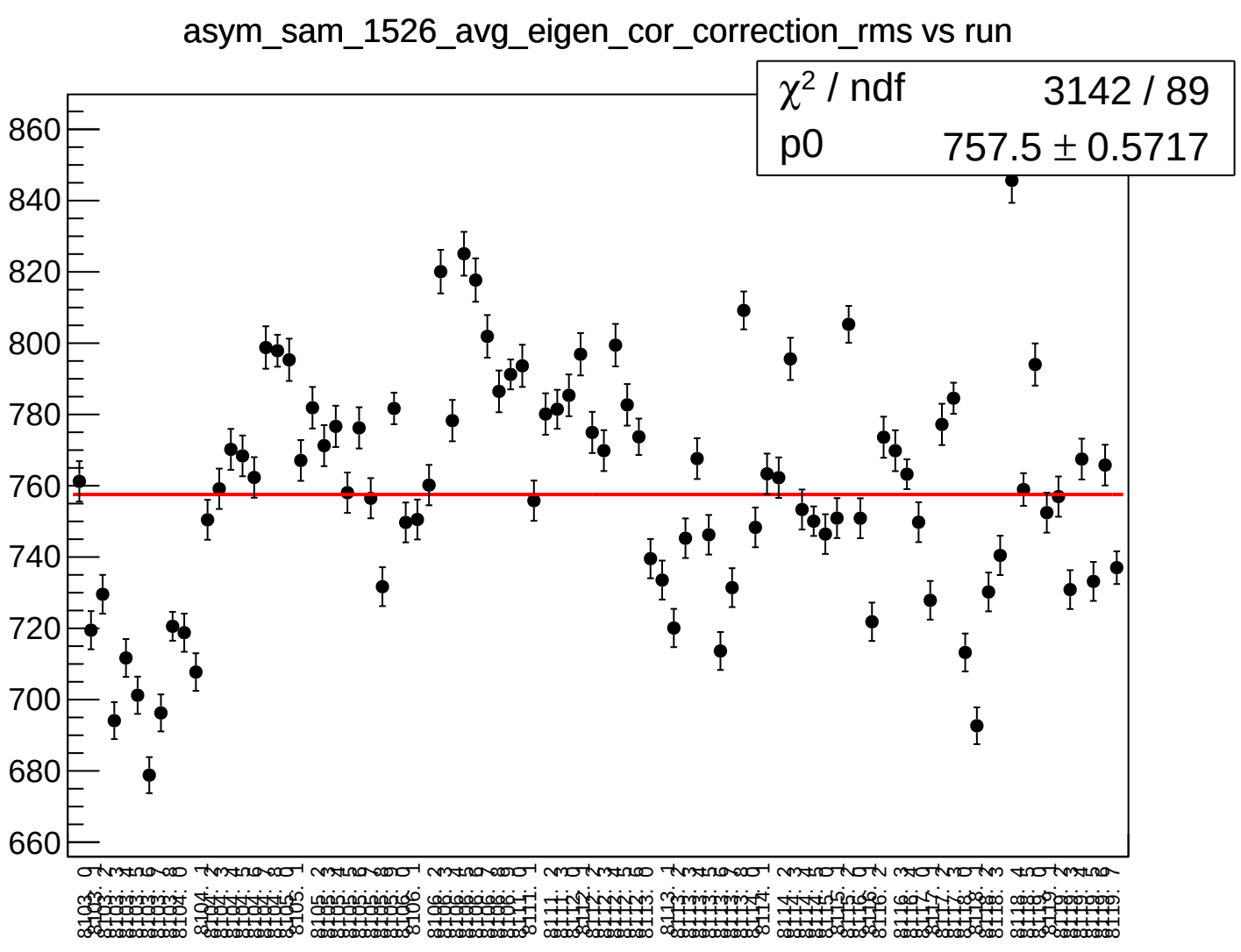

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 82.49 / 89
p0 −119.2 ± 91.77
pull
Entries 90
Mean −180.5
Std Dev 0

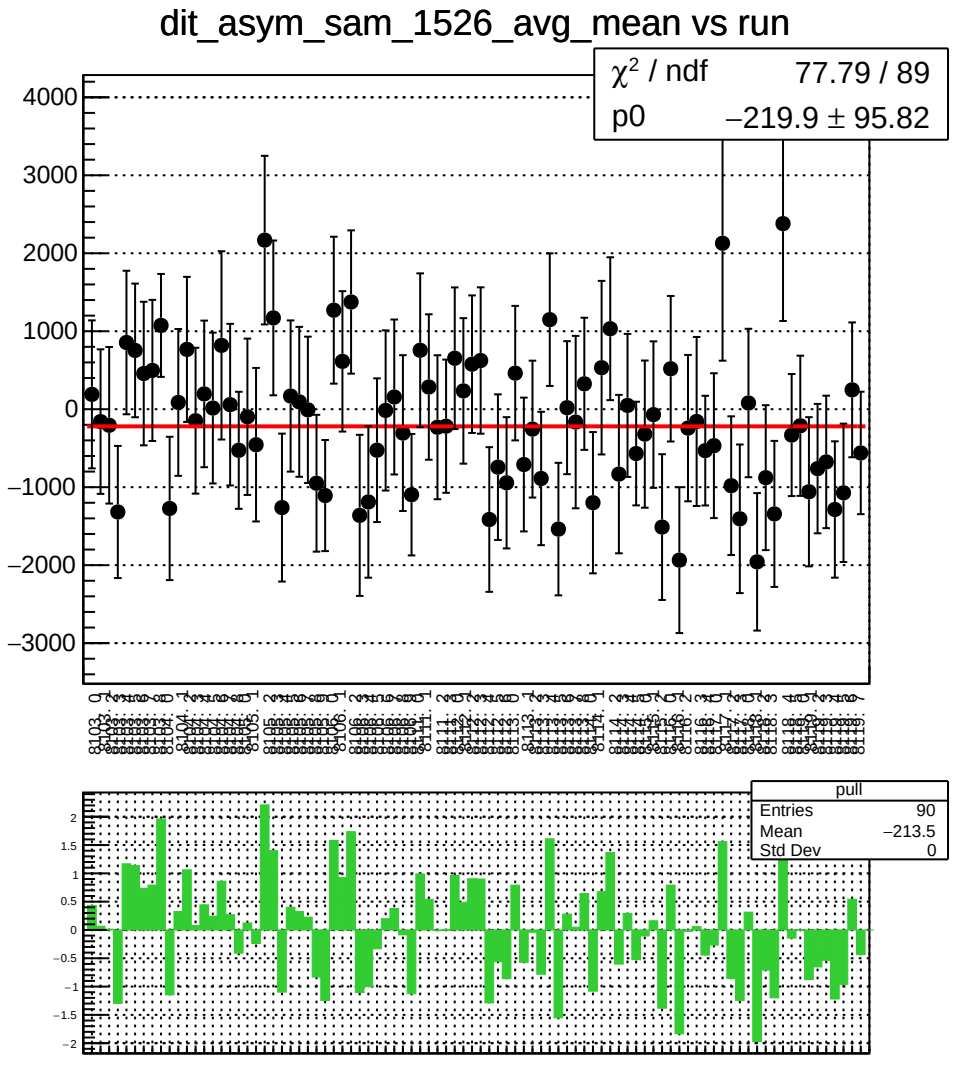

pull1D
Entries 90
Mean 0.02838
Std Dev 0.9569

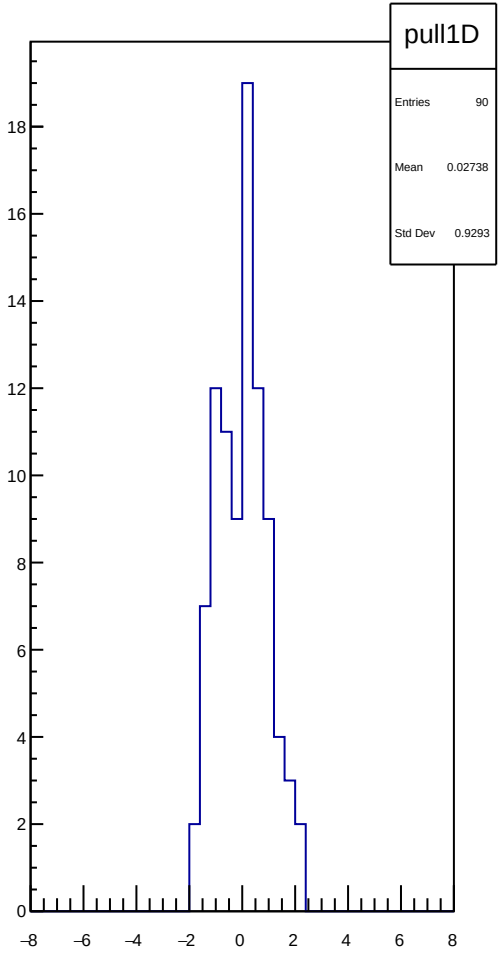

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.516e+04 / 89
p0 85.68 ± 0.06489
130
120
110
100
90
80
70

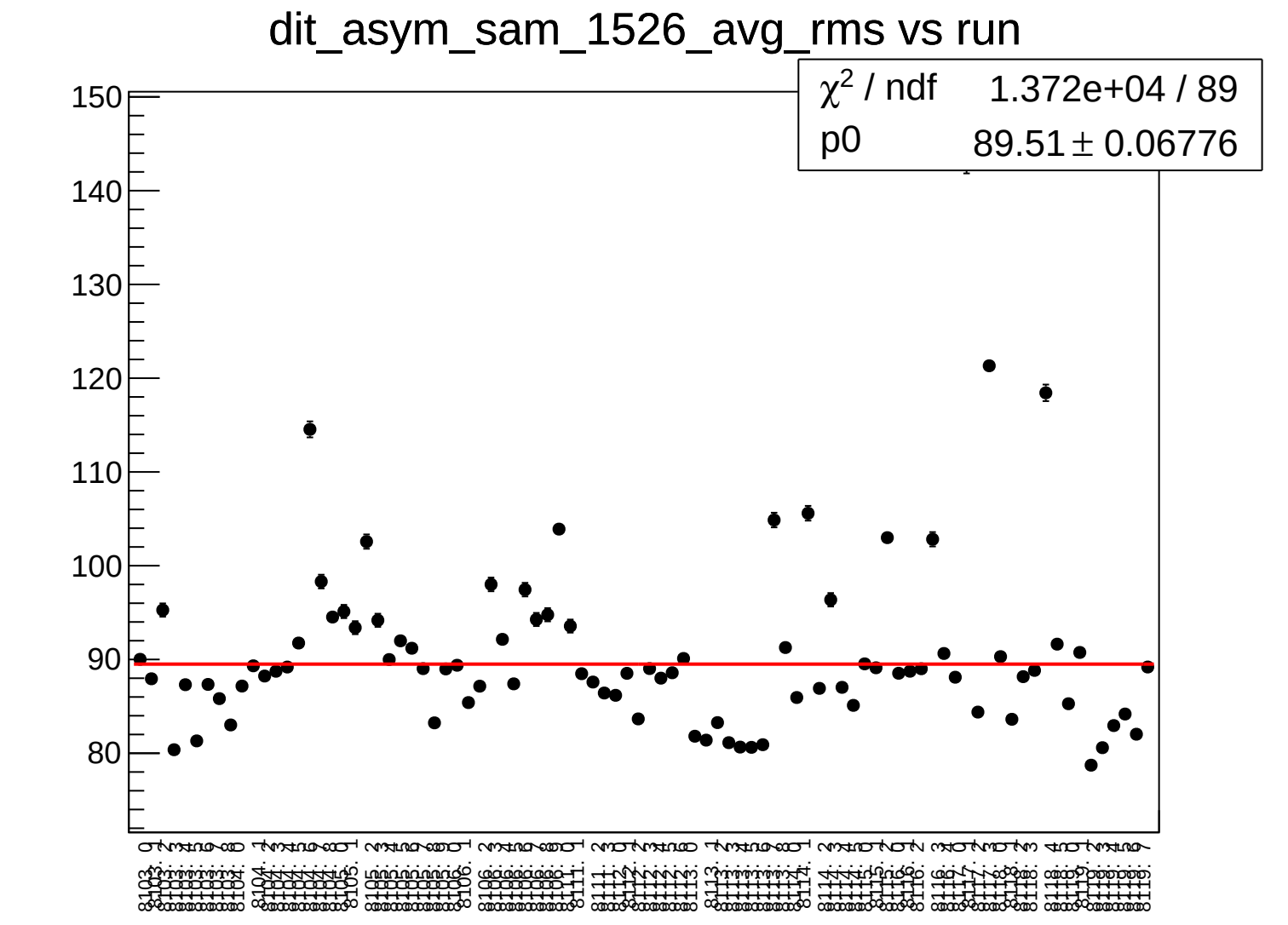

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.59 / 89
p0 −1893 ± 808.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −1882
Std Dev 0
3
2
1
0
−1
−2

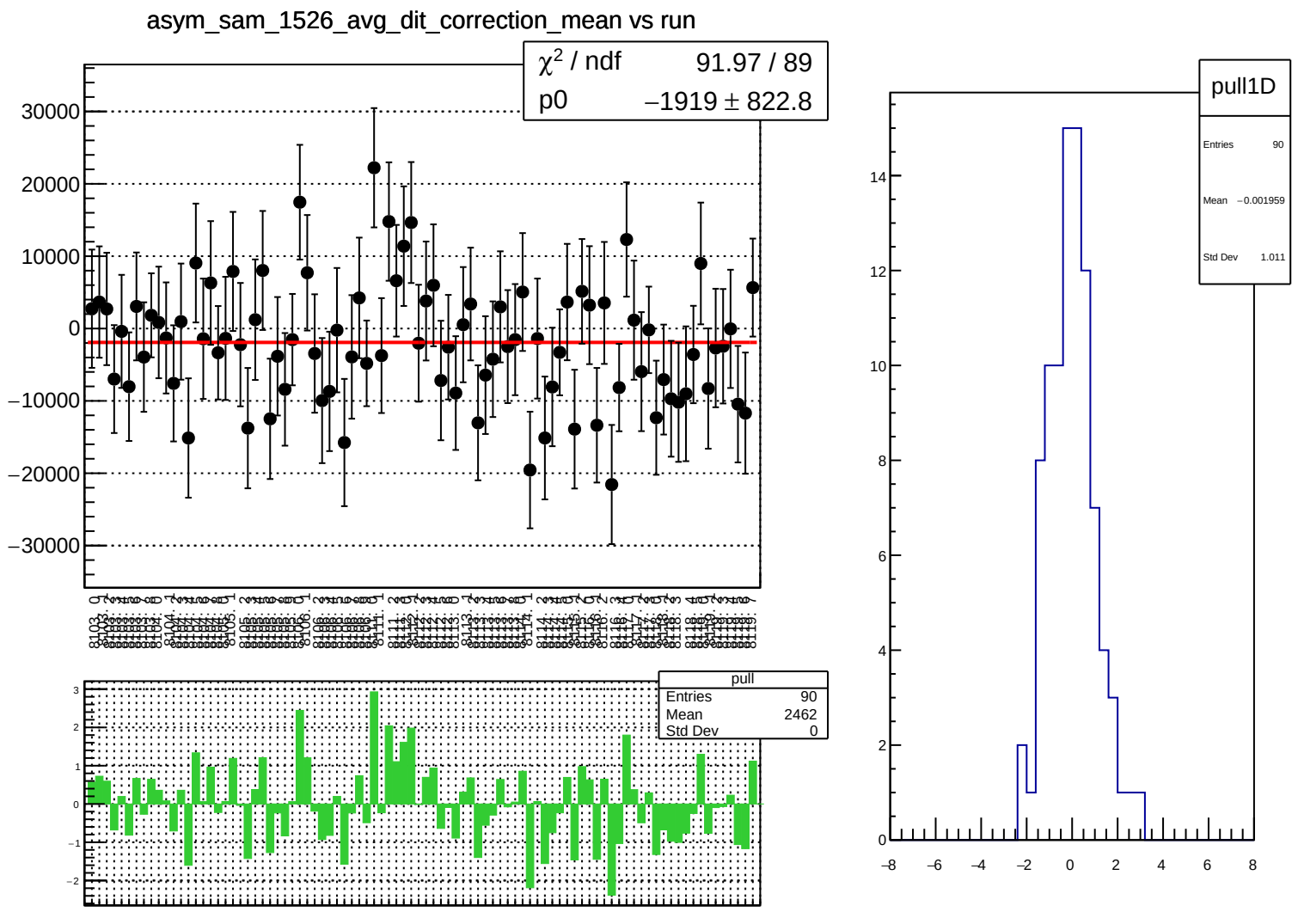

pull1D
Entries 90
Mean 0.002477
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

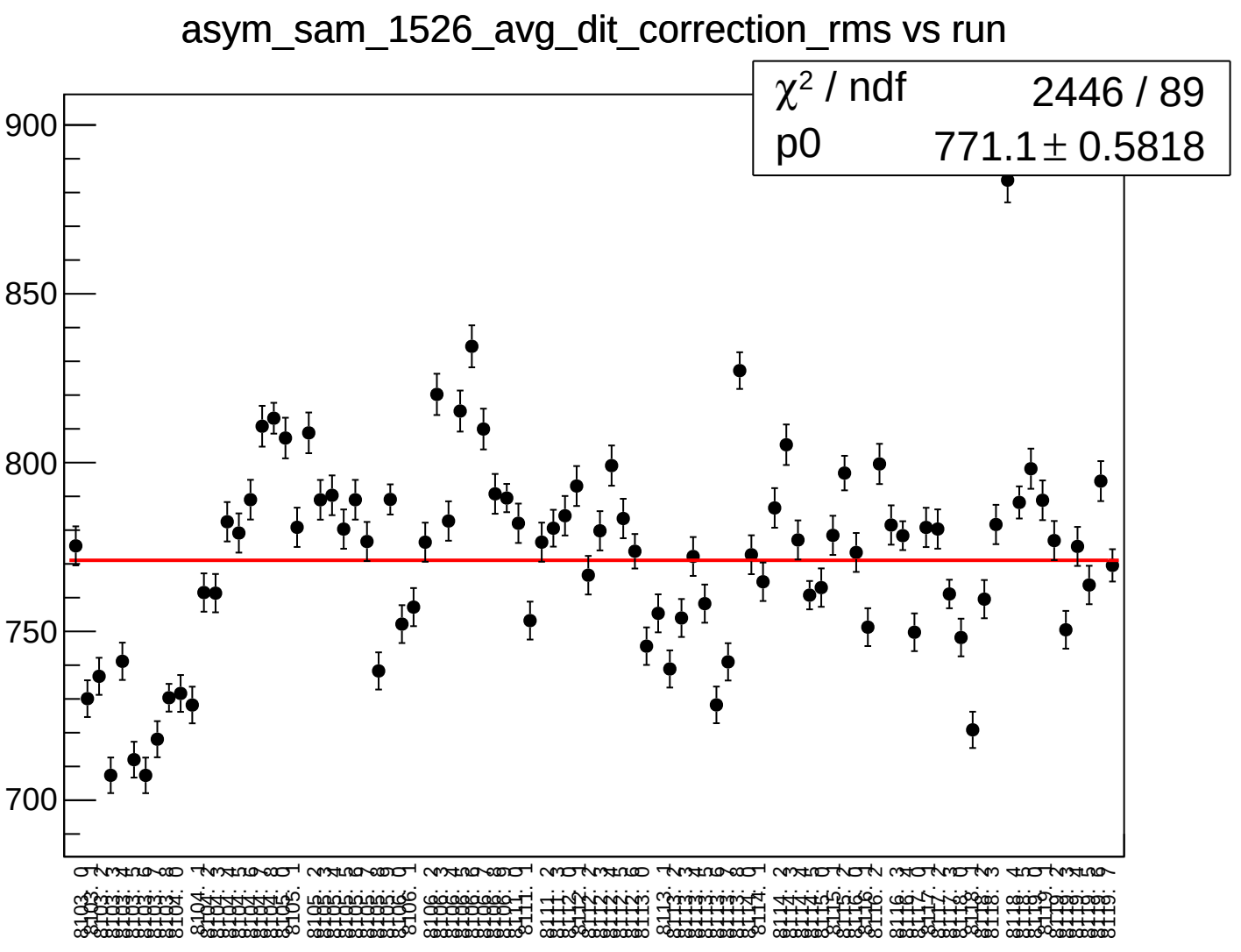

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 3142 / 89
p0 757.5 ± 0.5717
860
840
820
800
780
760
740
720
700
680
660

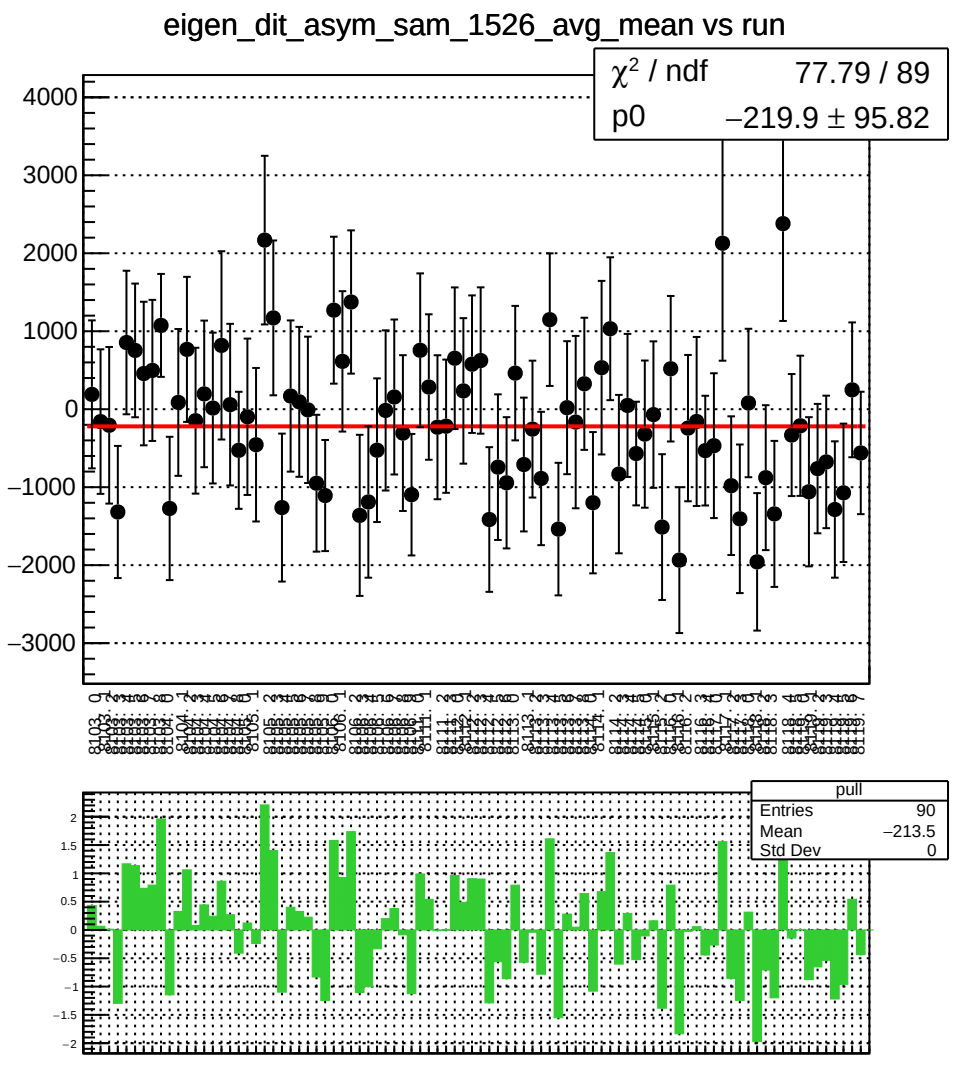

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 77.79 / 89
p0 −219.9 ± 95.82
pull
Entries 90
Mean −213.5
Std Dev 0

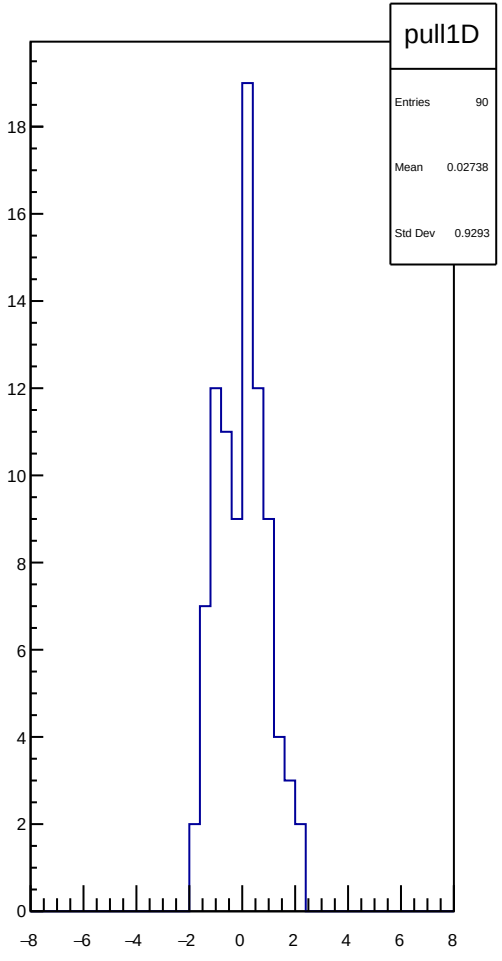

pull1D
Entries 90
Mean 0.02738
Std Dev 0.9293

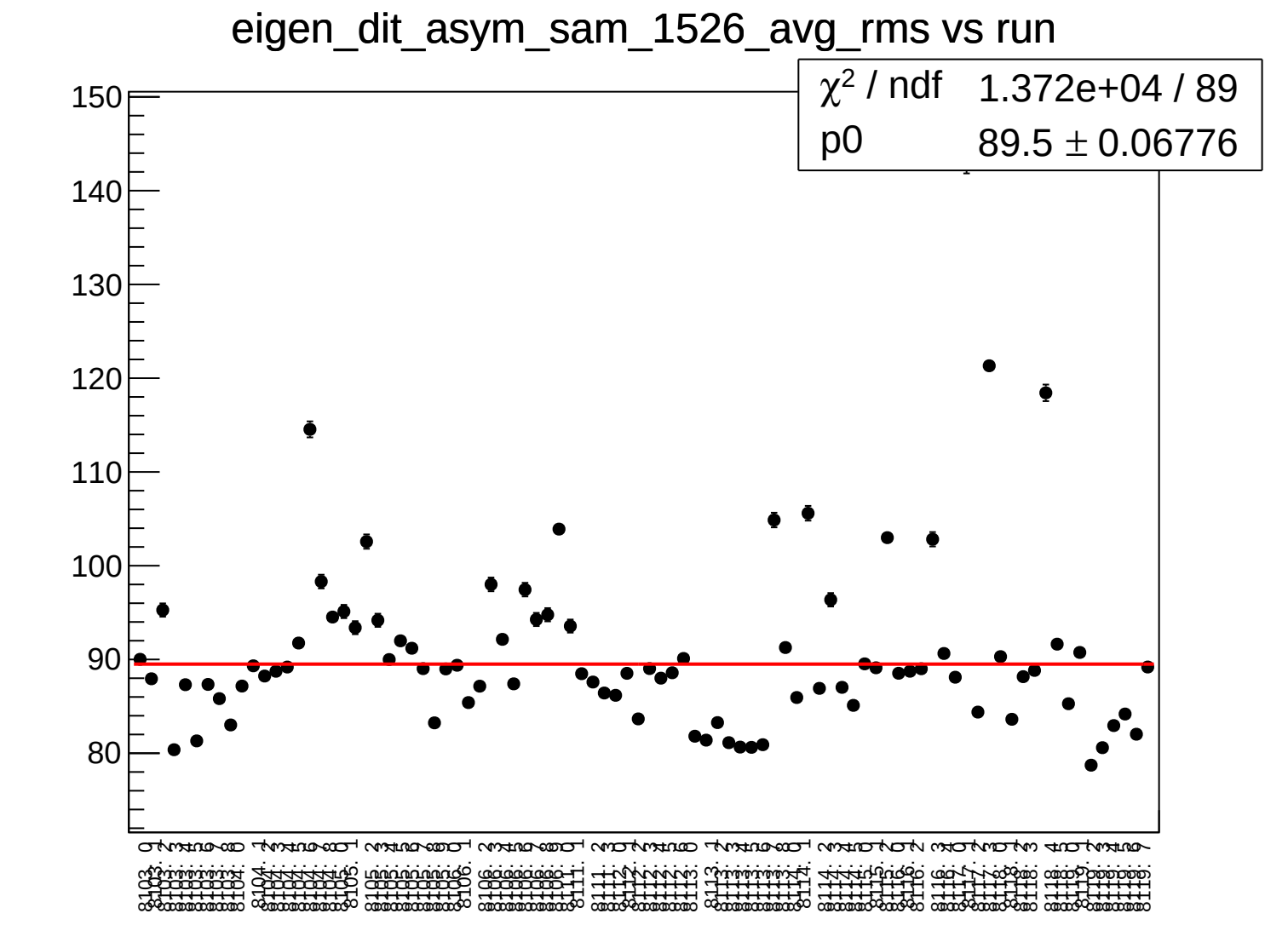

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.372e+04 / 89
p0 89.51 ± 0.06776
150
140
130
120
110
100
90
80

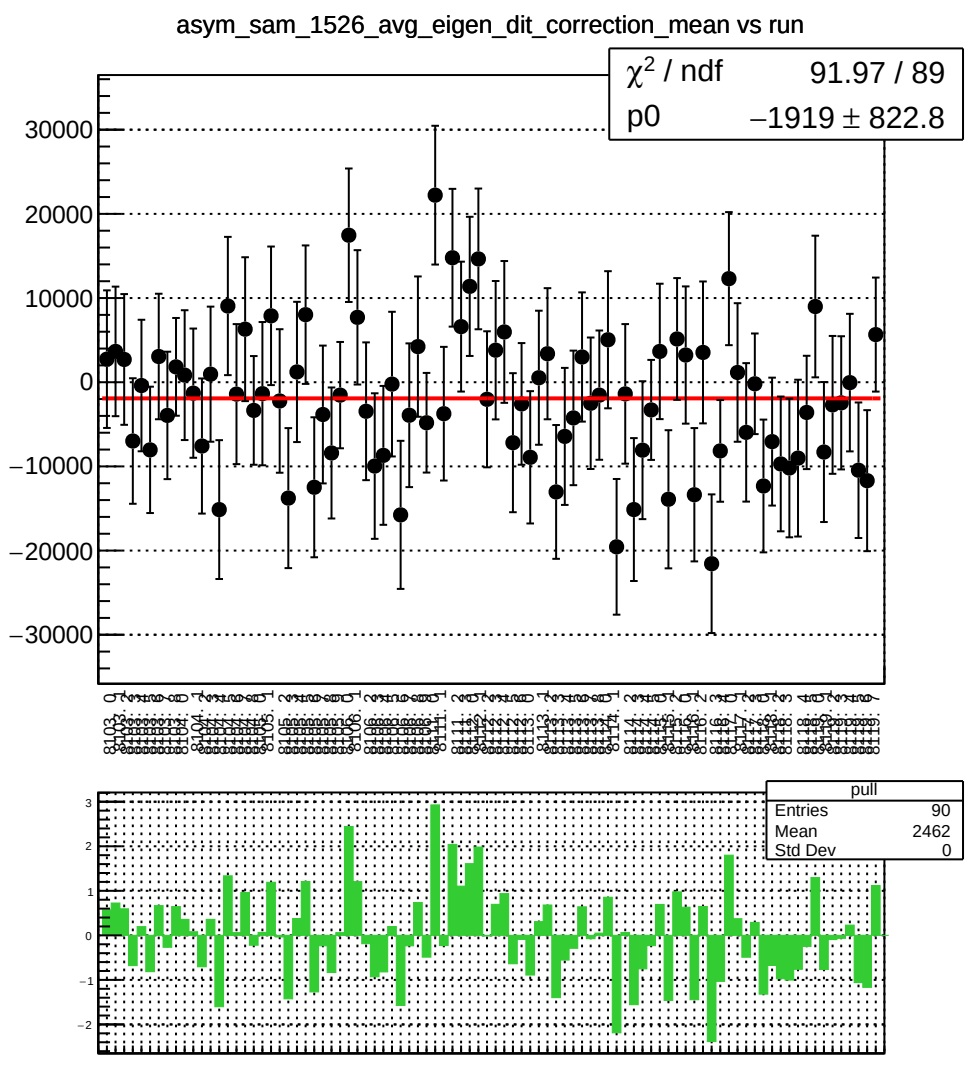

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 91.97 / 89
p0 −1919 ± 822.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 2462
Std Dev 0
pull1D
Entries 90
Mean −0.001959
Std Dev 1.011

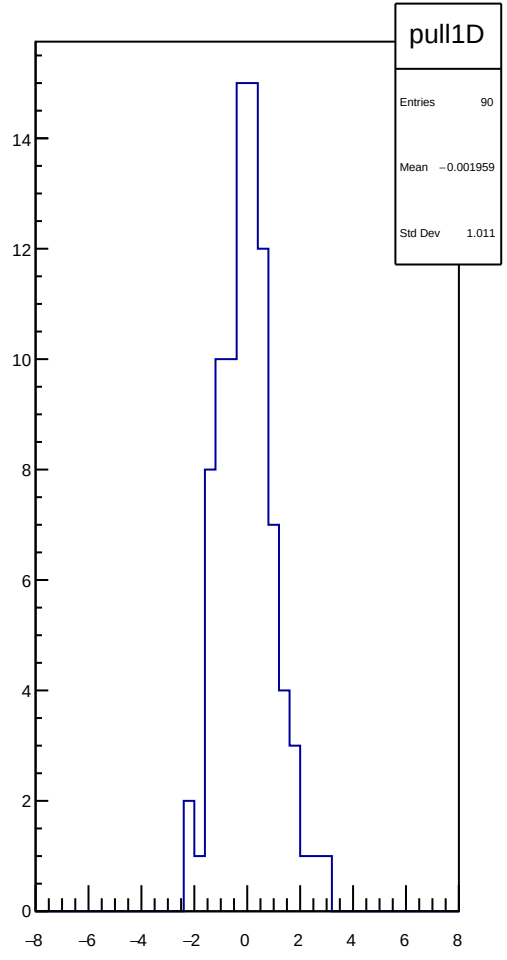

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2446 / 89
p0 771.1 ± 0.5818
900
850
800
750
700

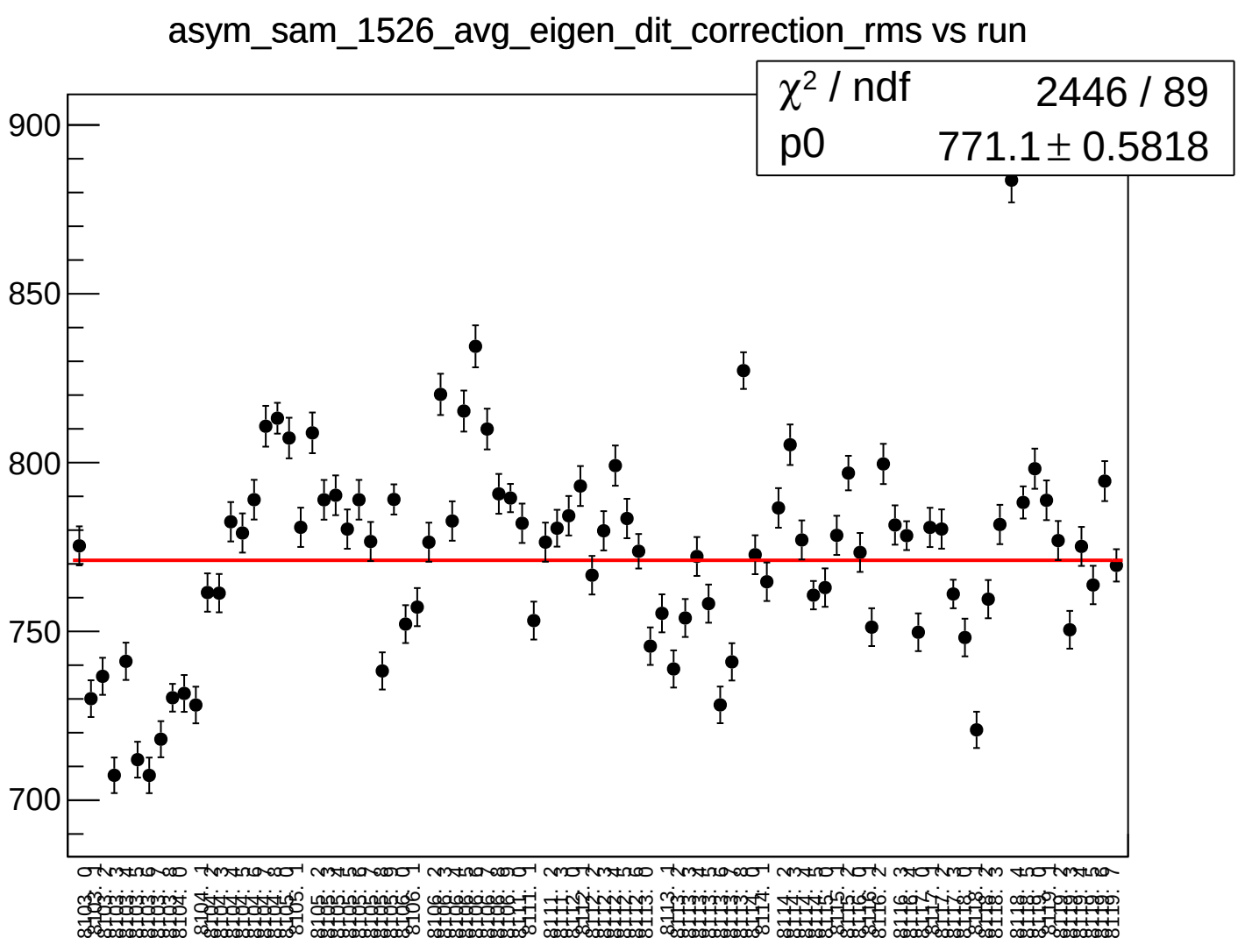

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 77.79 / 89
p0 −219.9 ± 95.82
pull
Entries 90
Mean −213.5
Std Dev 0

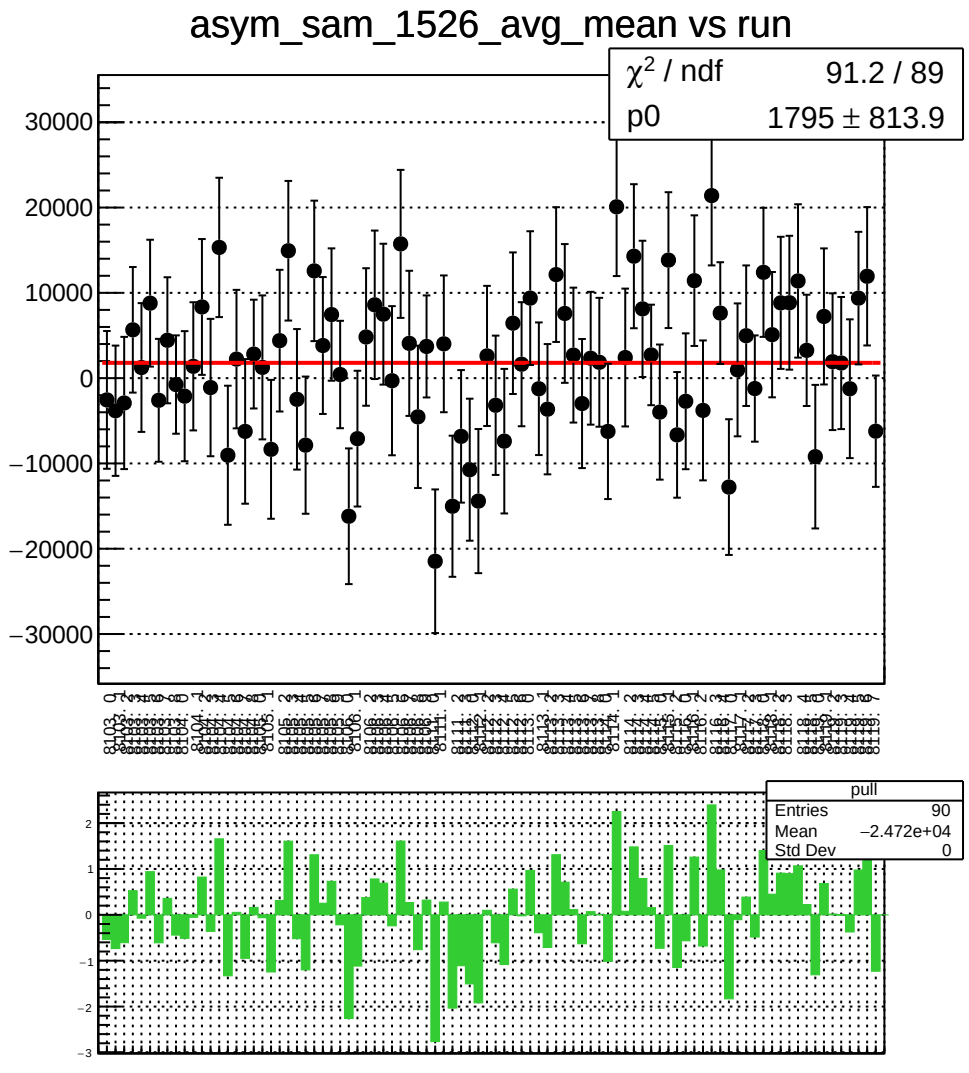

pull1D
Entries 90
Mean 0.02738
Std Dev 0.9293

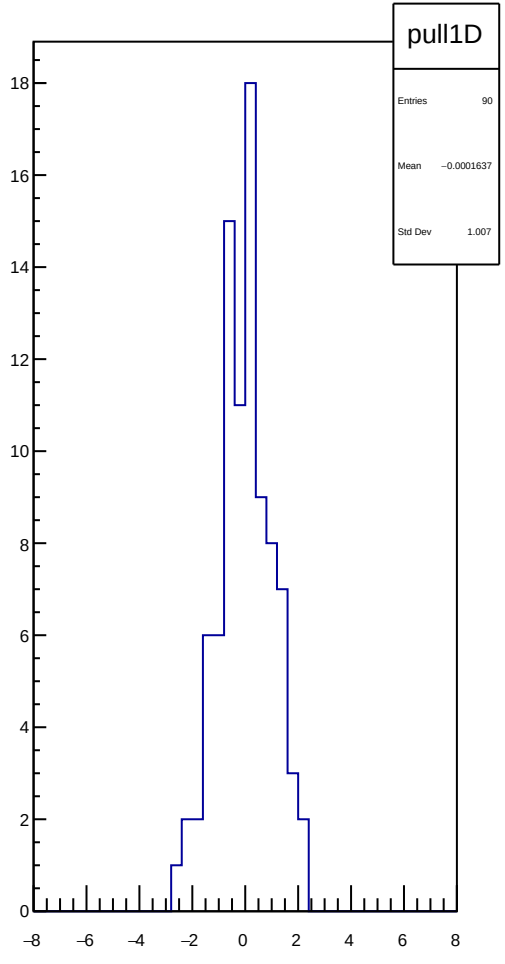

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.372e+04 / 89
p0 89.5 ± 0.06776
150
140
130
120
110
100
90
80

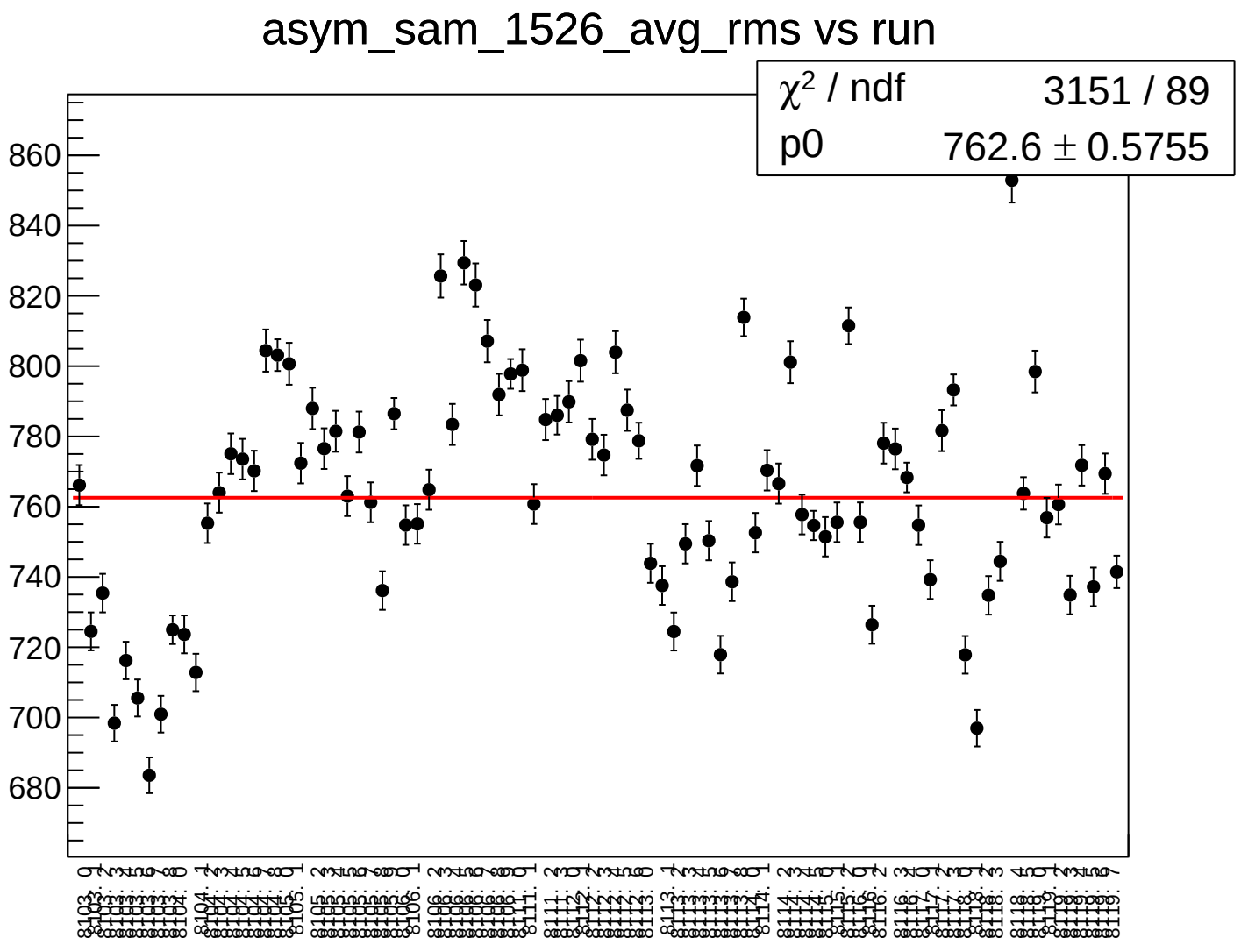

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.97 / 89
p0 −1919 ± 822.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 2462
Std Dev 0
3
2
1
0
−1
−2

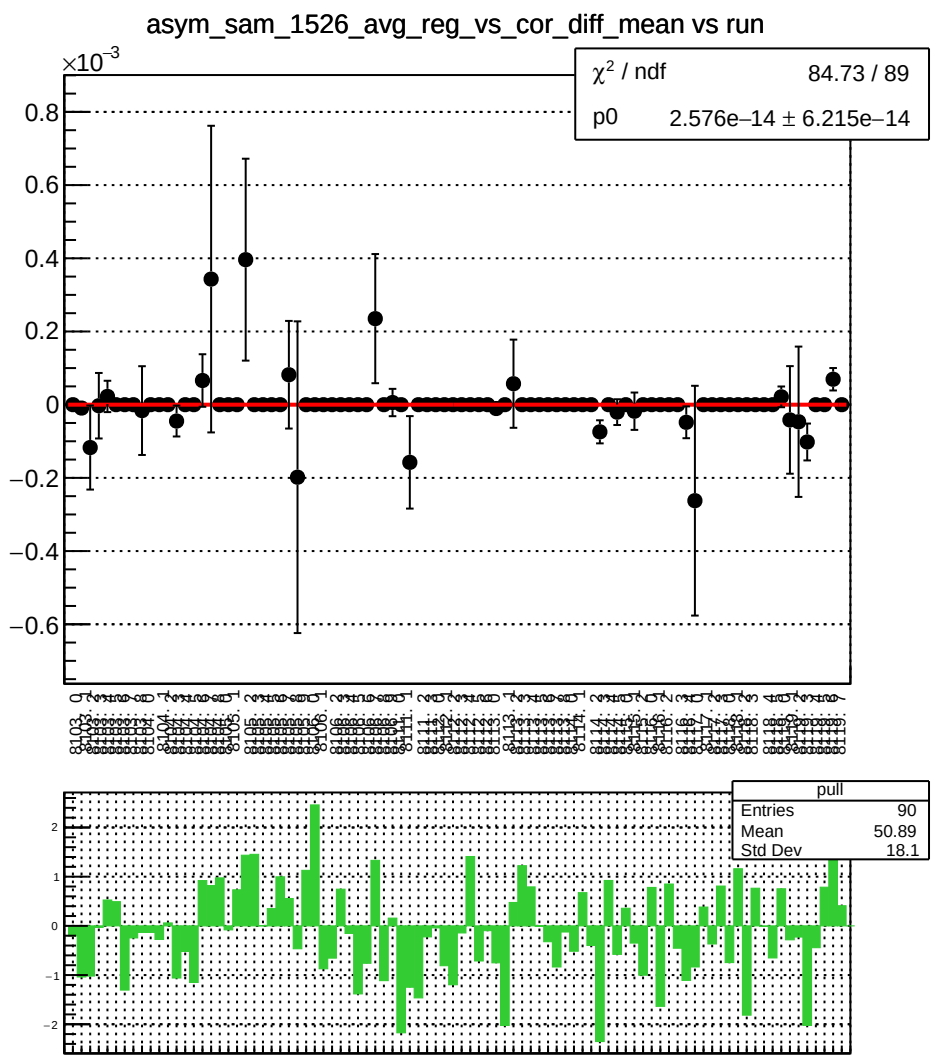

pull1D
Entries 90
Mean −0.001959
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

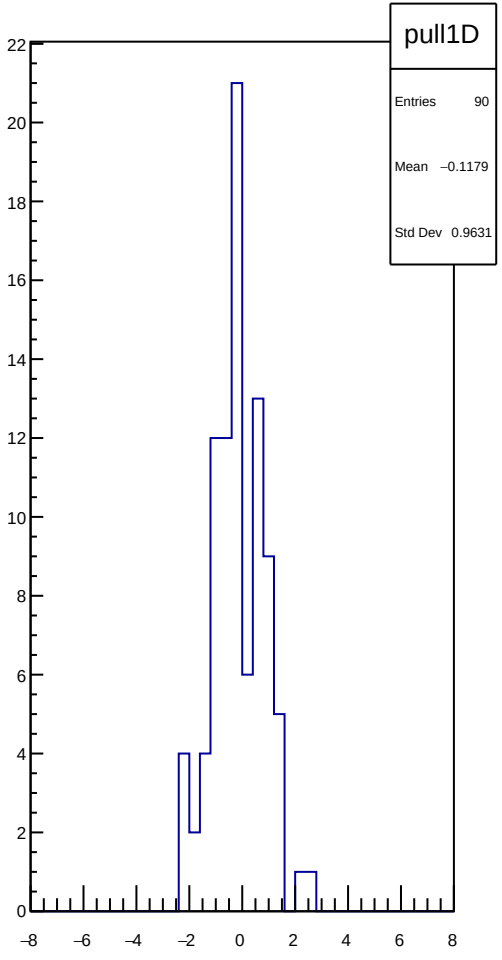

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2446 / 89
p0 771.1 ± 0.5818
900
850
800
750
700

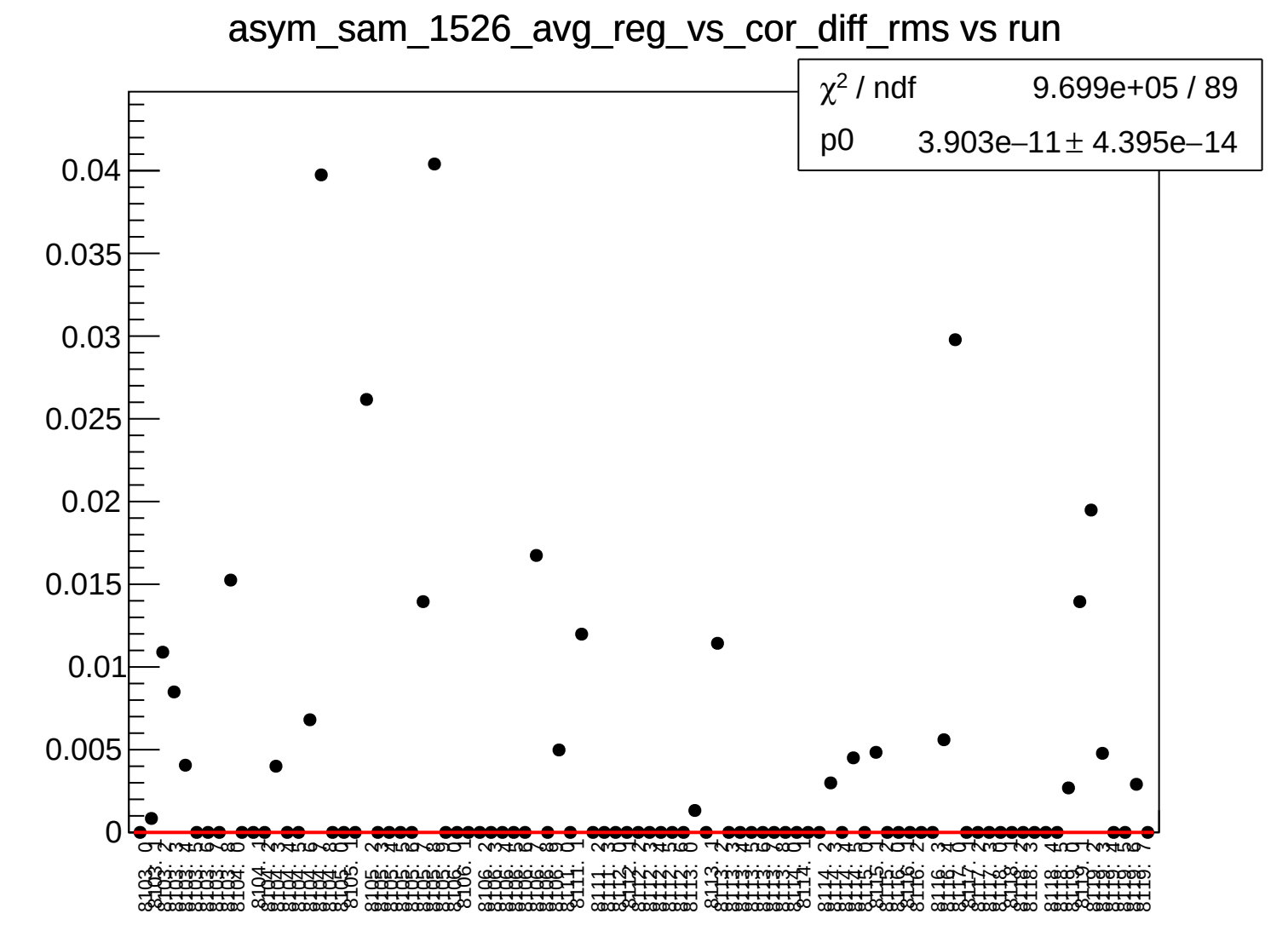

asym_sam_1526_avg_mean vs run
χ^2 / ndf 91.2 / 89
p0 1795 ± 813.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean −2.472e+04
Std Dev 0
2
1
0
−1
−2
−3

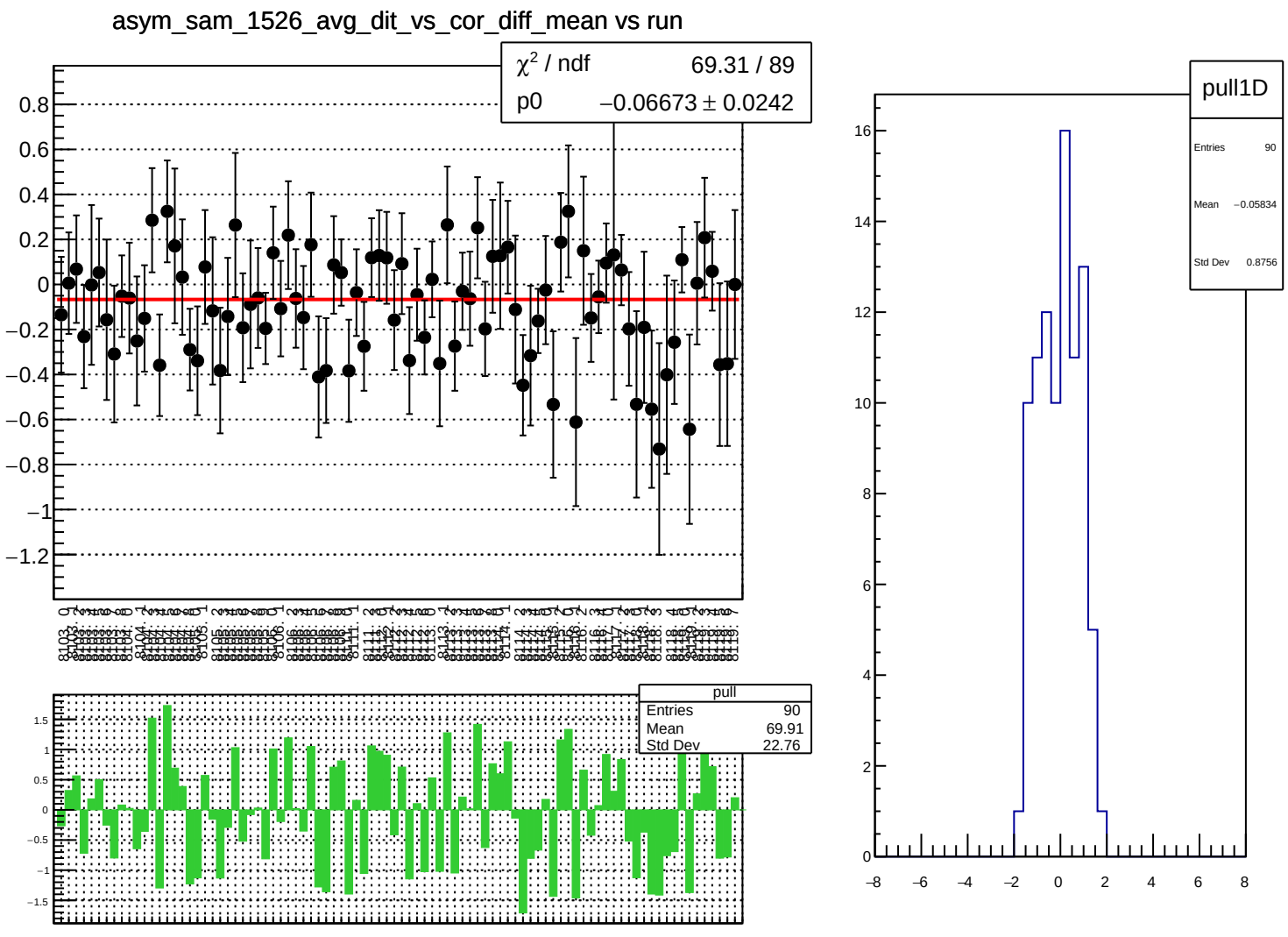

pull1D
Entries 90
Mean −0.0001637
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

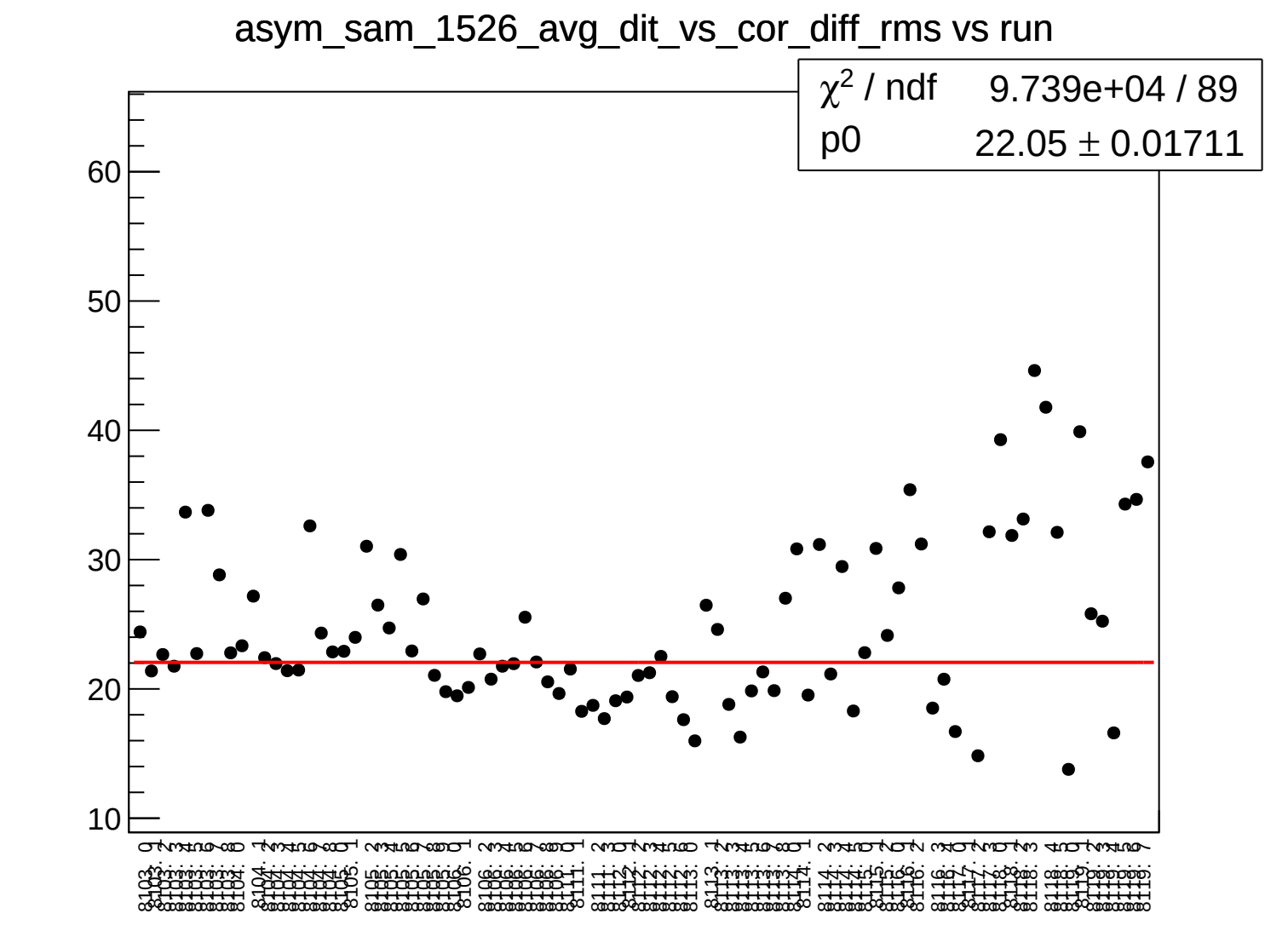

asym_sam_1526_avg_rms vs run
χ² / ndf 3151 / 89
p0 762.6 ± 0.5755
860
840
820
800
780
760
740
720
700
680

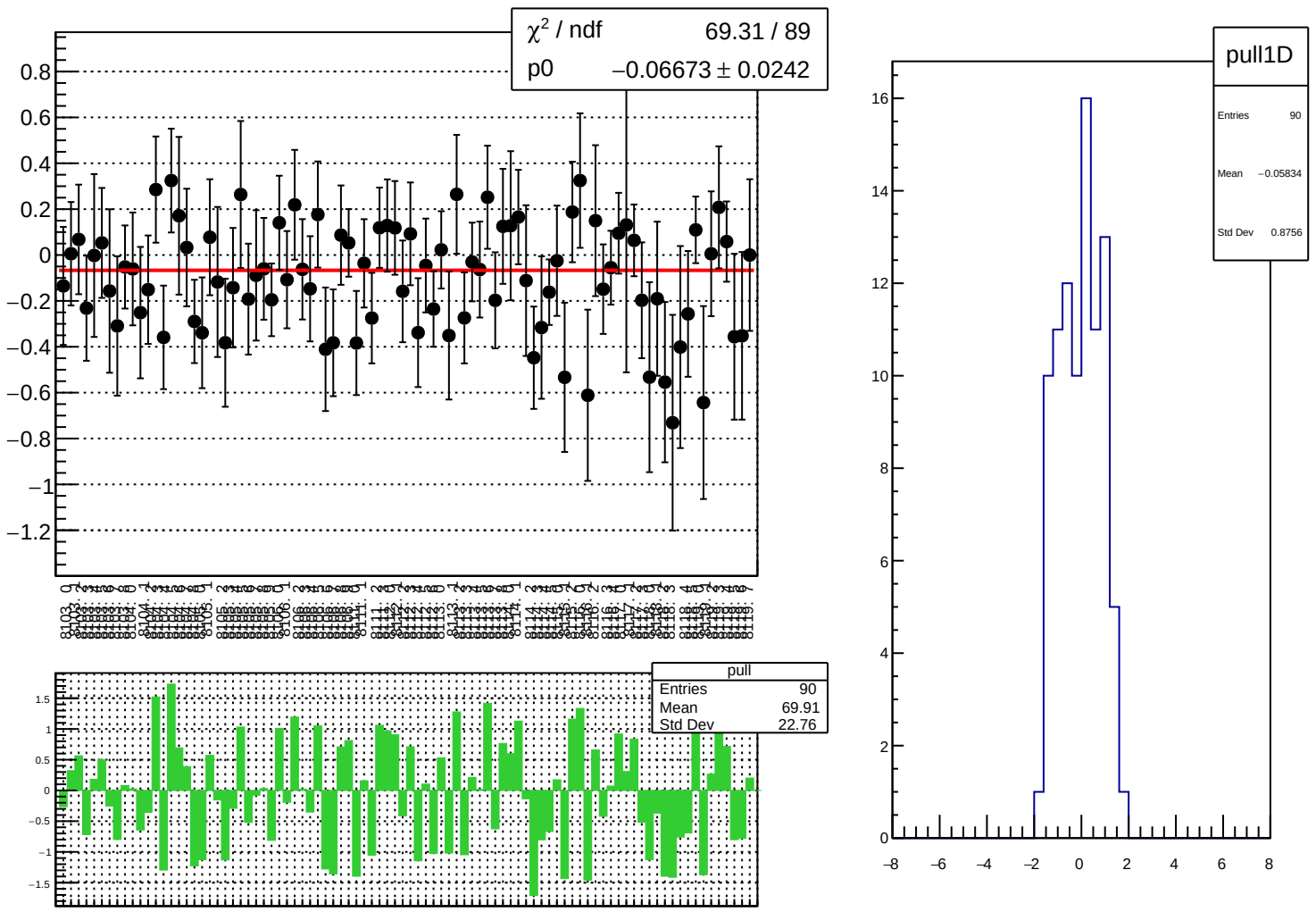

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 84.73 / 89
p0 2.576e−14 ± 6.215e−14
pull
Entries 90
Mean 50.89
Std Dev 18.1

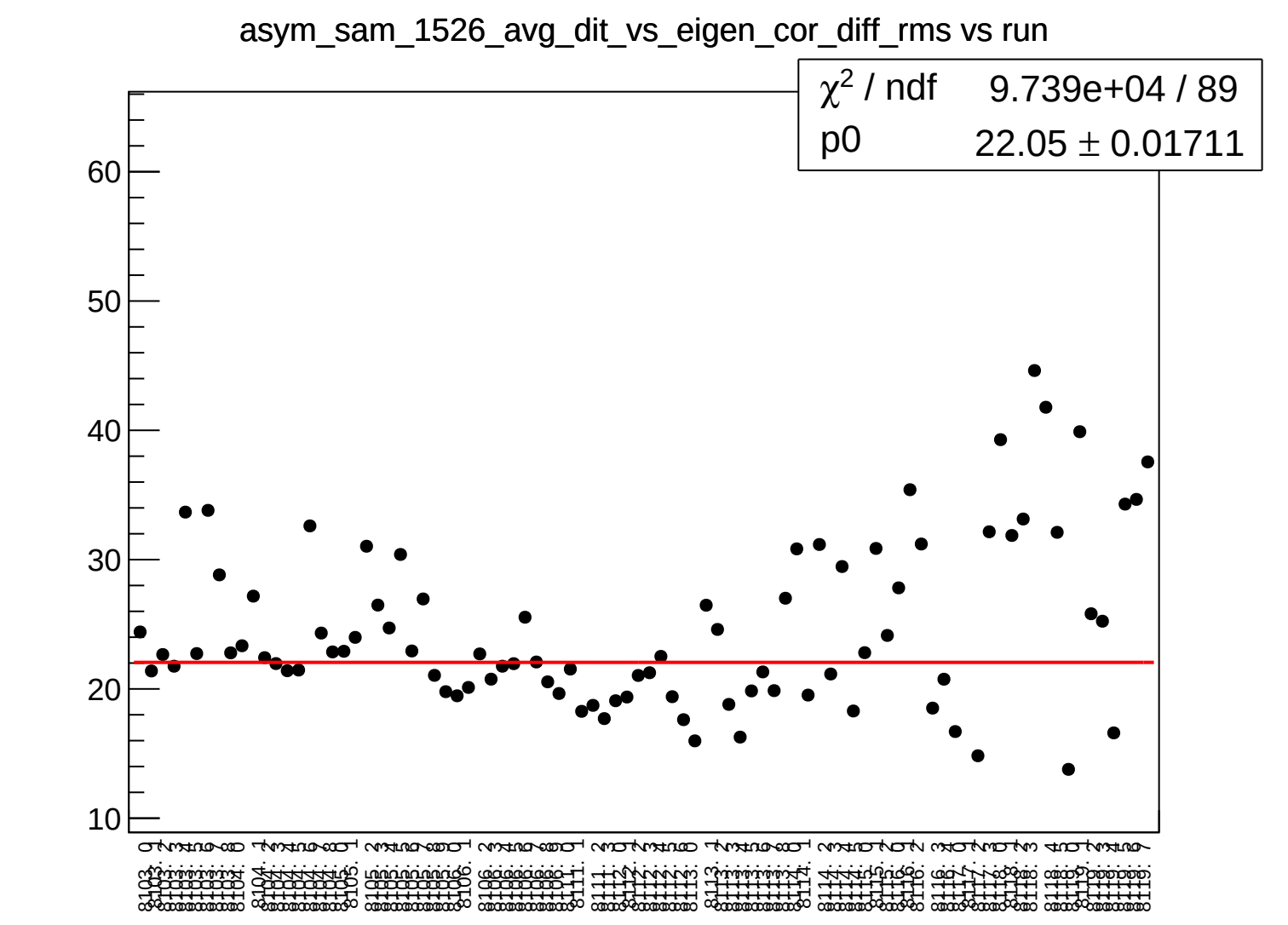

pull1D
Entries 90
Mean −0.1179
Std Dev 0.9631

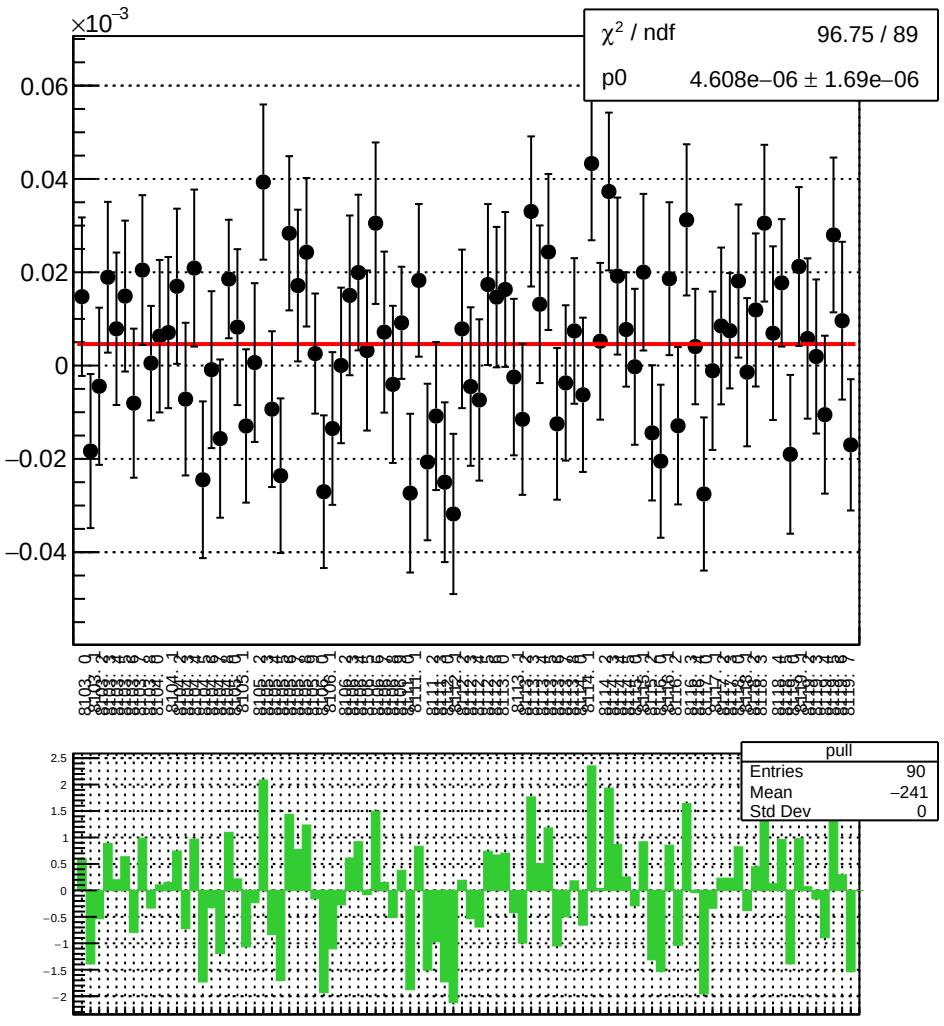

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.699e+05 / 89
p0 3.903e−11 ± 4.395e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

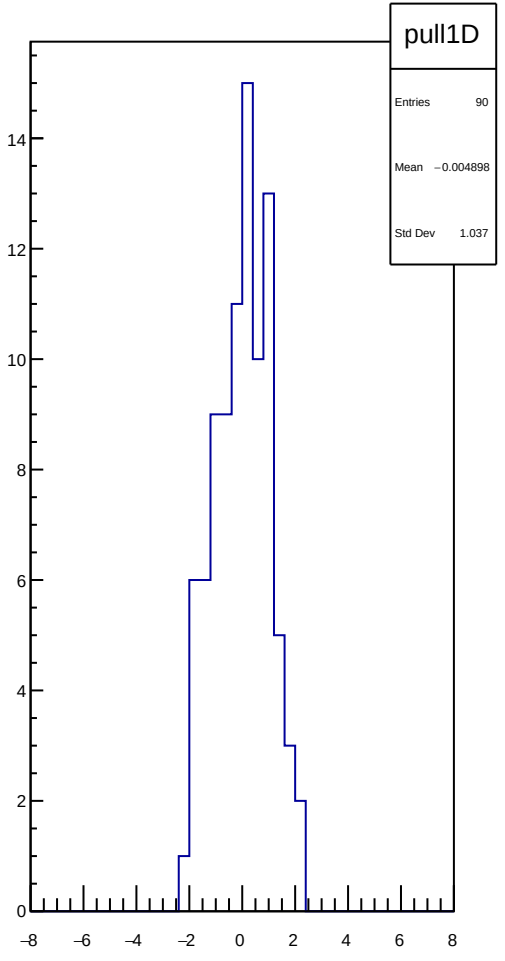

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.31 / 89
p0 −0.06673 ± 0.0242
pull
Entries 90
Mean 69.91
Std Dev 22.76
pull1D
Entries 90
Mean −0.05834
Std Dev 0.8756

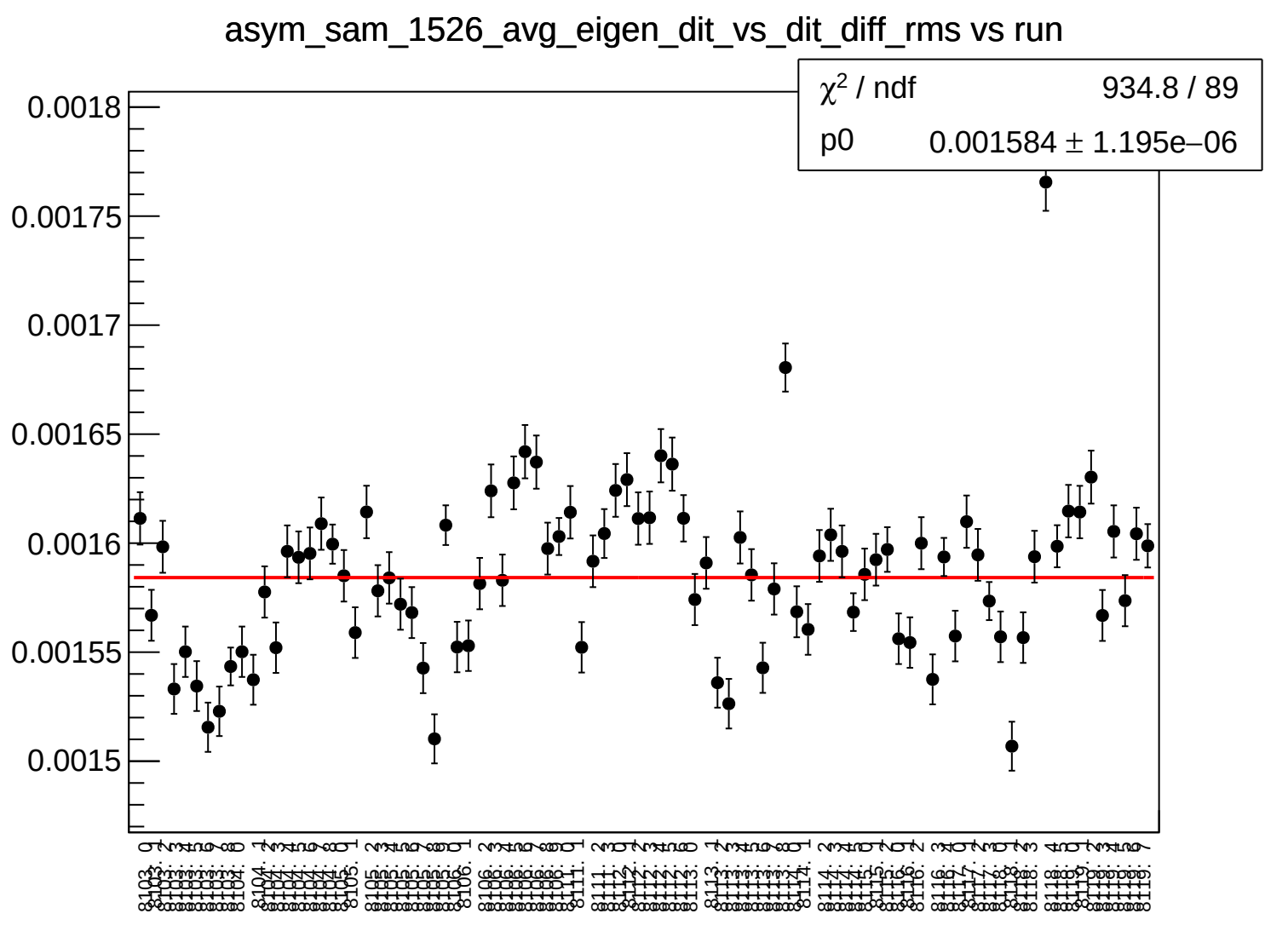

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.739e+04 / 89
p0 22.05 ± 0.01711
60
50
40
30
20
10

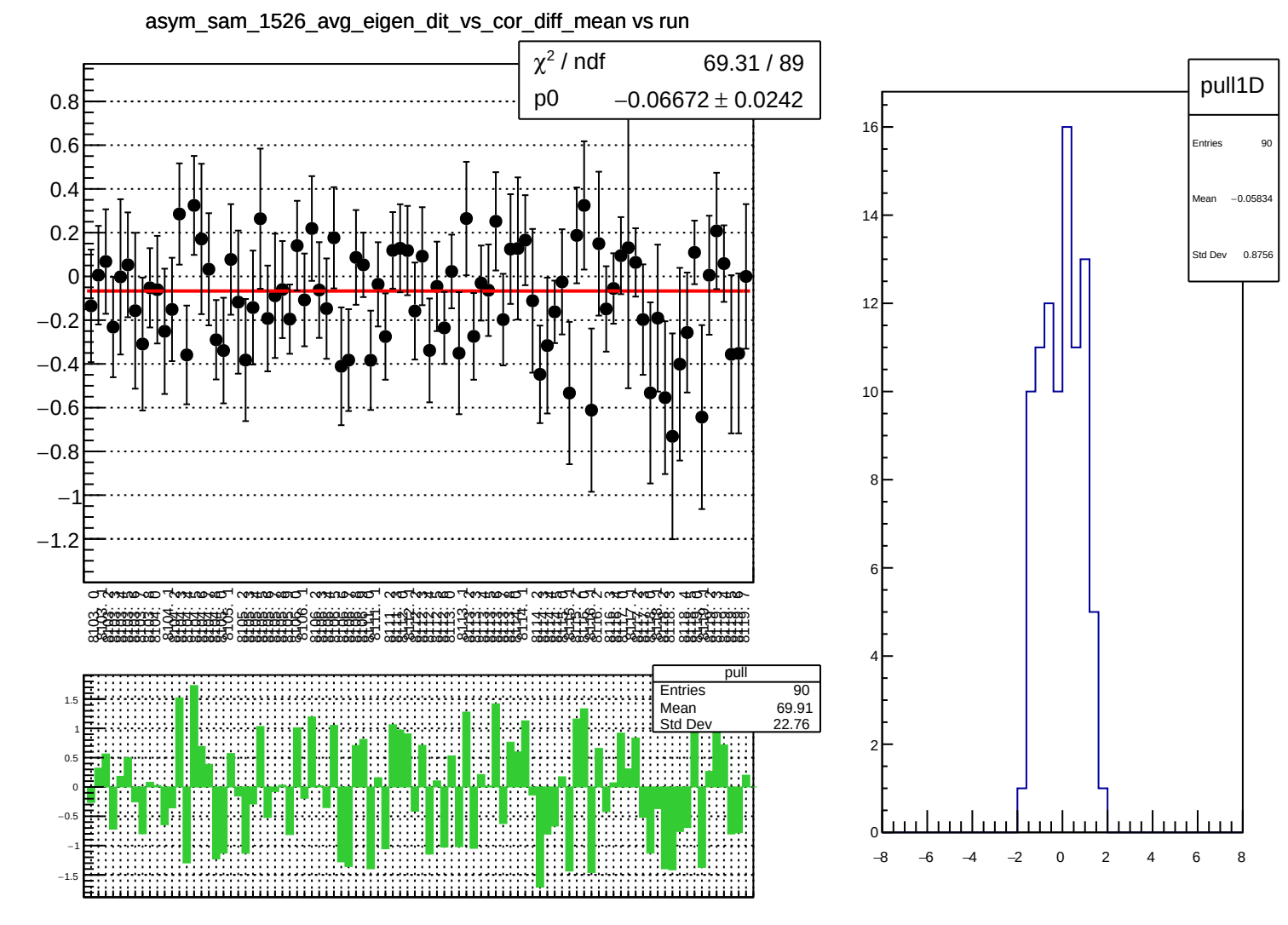

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.31 / 89
p0 −0.06673 ± 0.0242
pull
Entries 90
Mean 69.91
Std Dev 22.76
pull1D
Entries 90
Mean −0.05834
Std Dev 0.8756

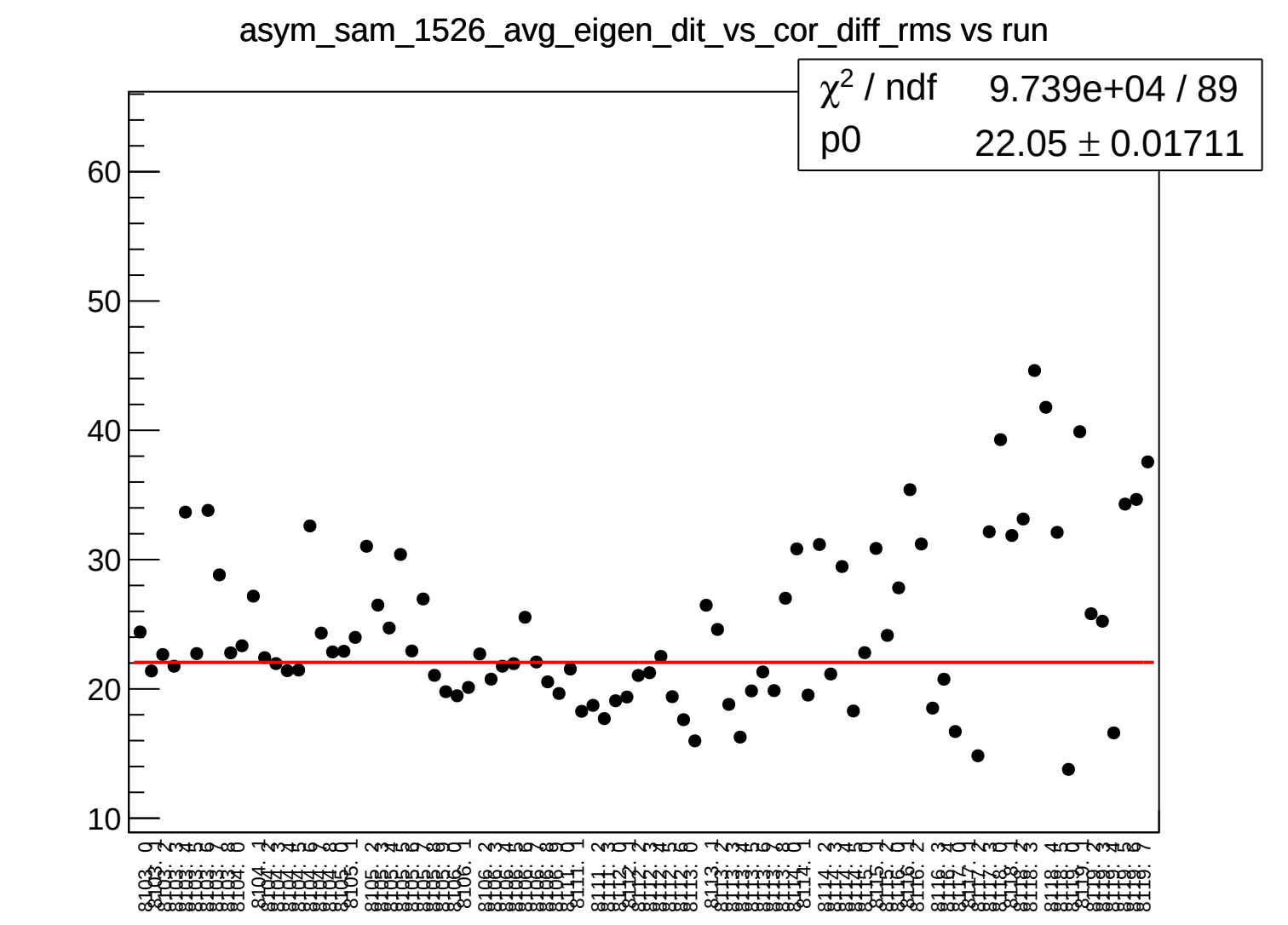

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.739e+04 / 89
p0 22.05 ± 0.01711
60
50
40
30
20
10

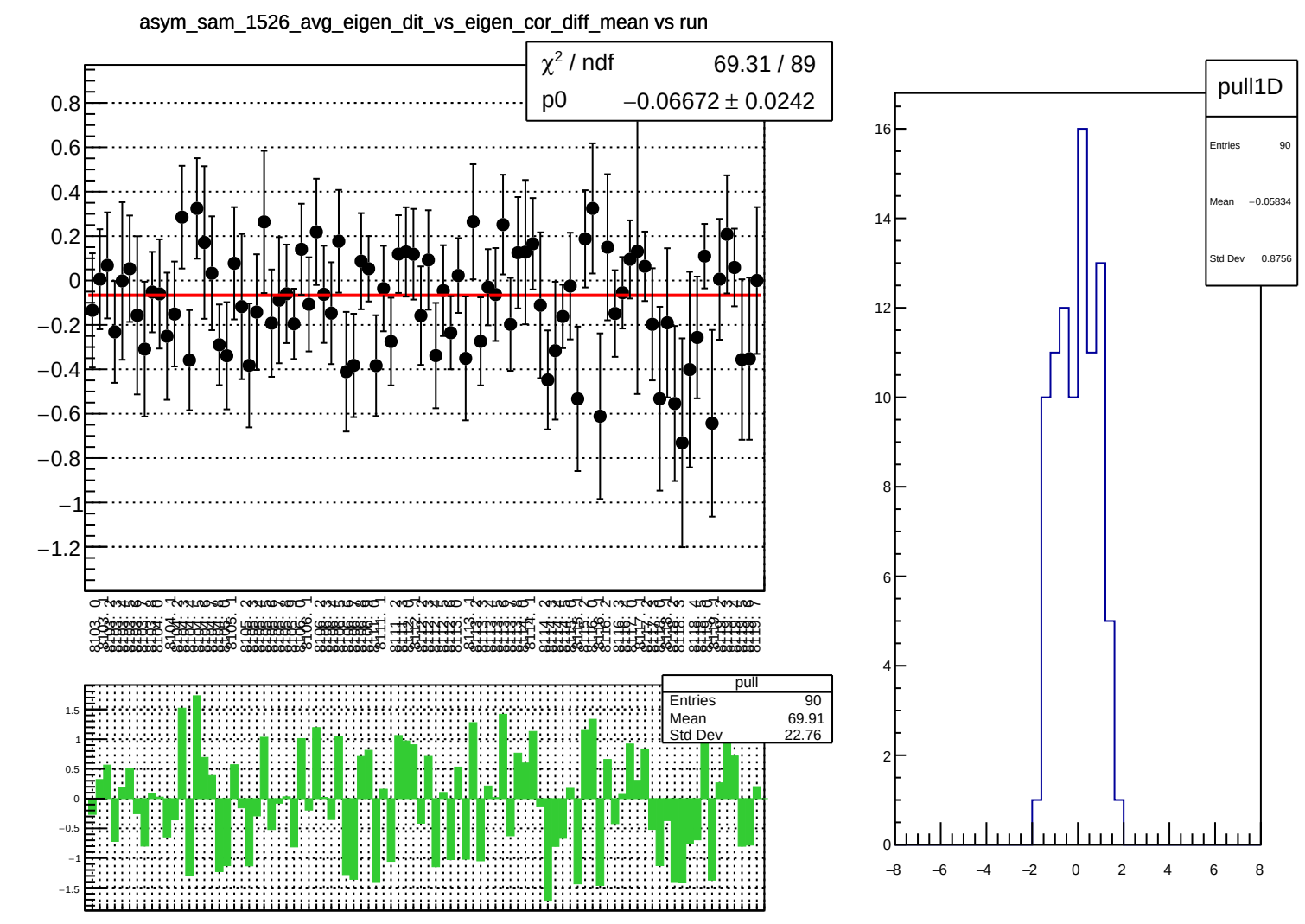

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.75 / 89
p0 4.608e−06 ± 1.69e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 90
Mean −241
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

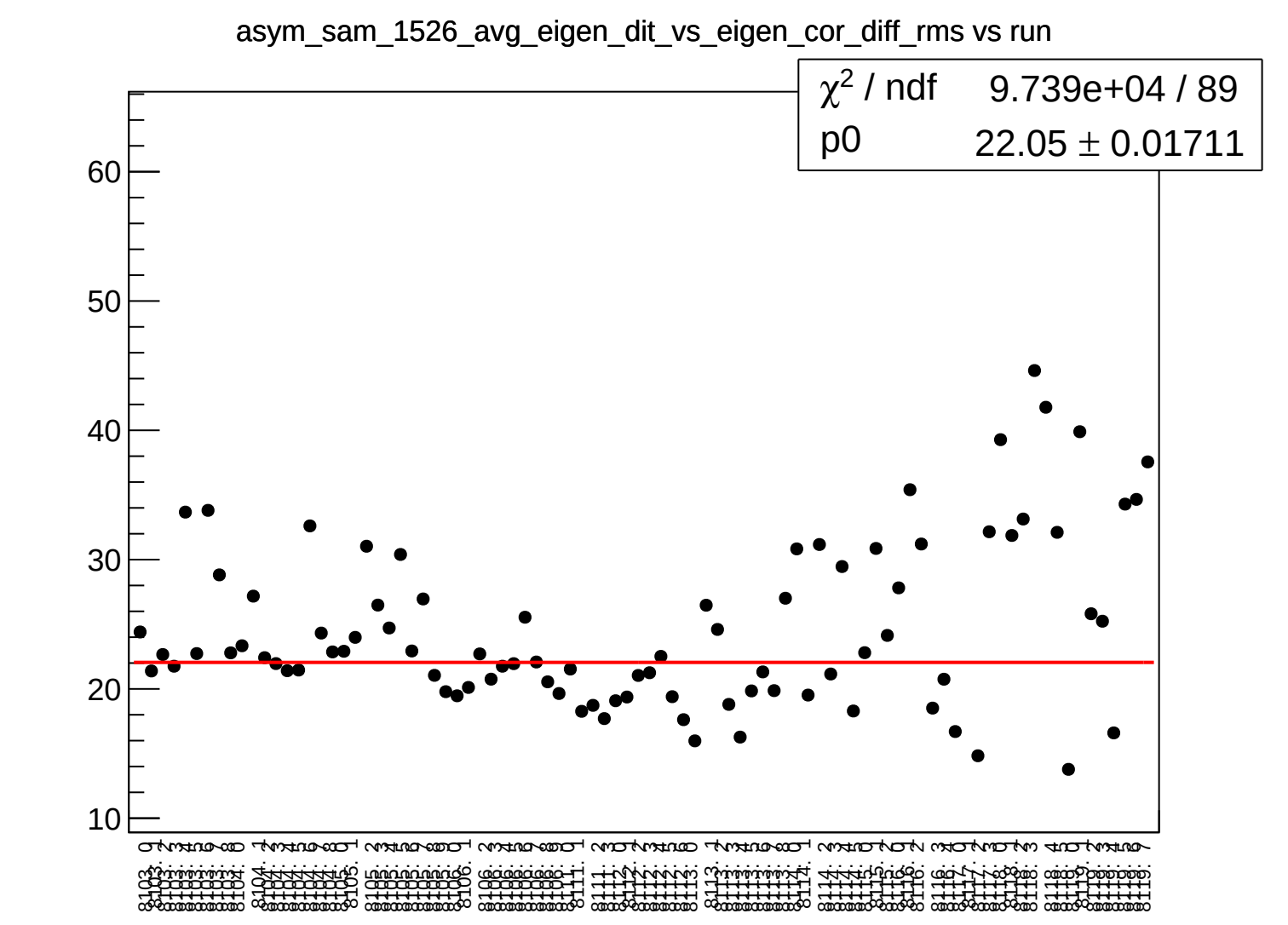

pull1D
Entries 90
Mean −0.004898
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

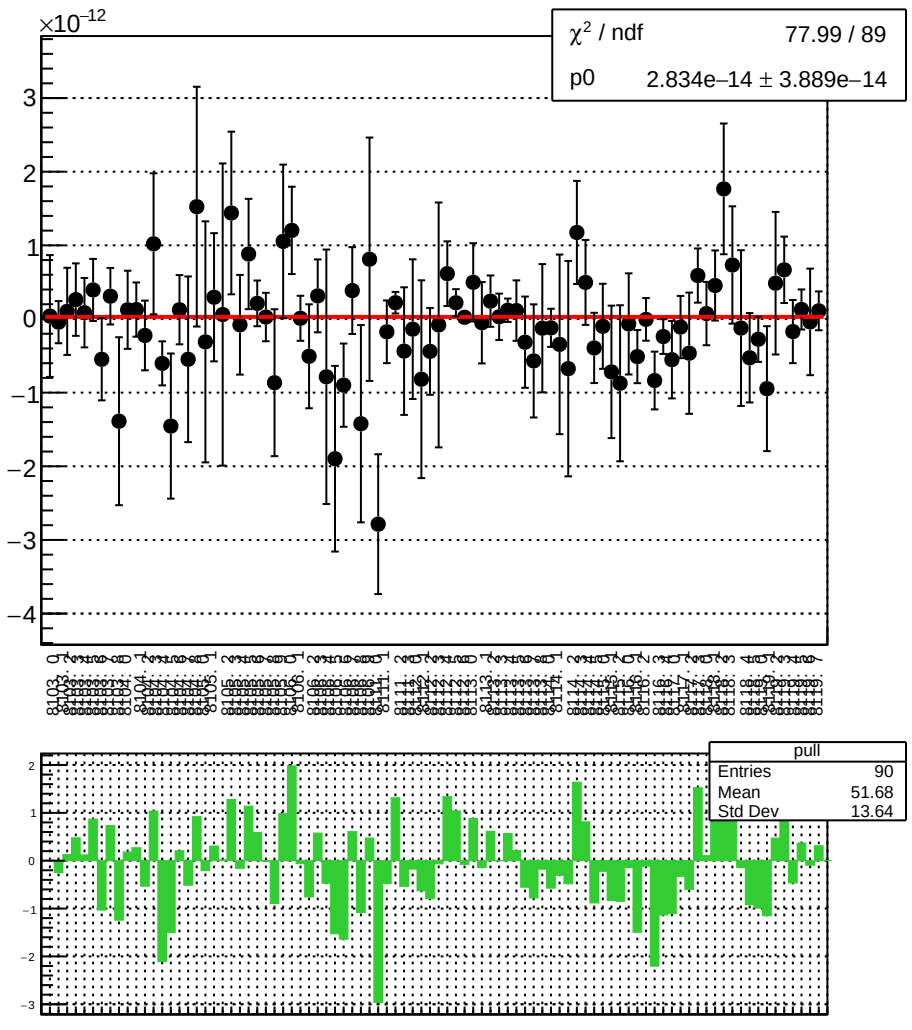

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 934.8 / 89
p0 0.001584 ± 1.195e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

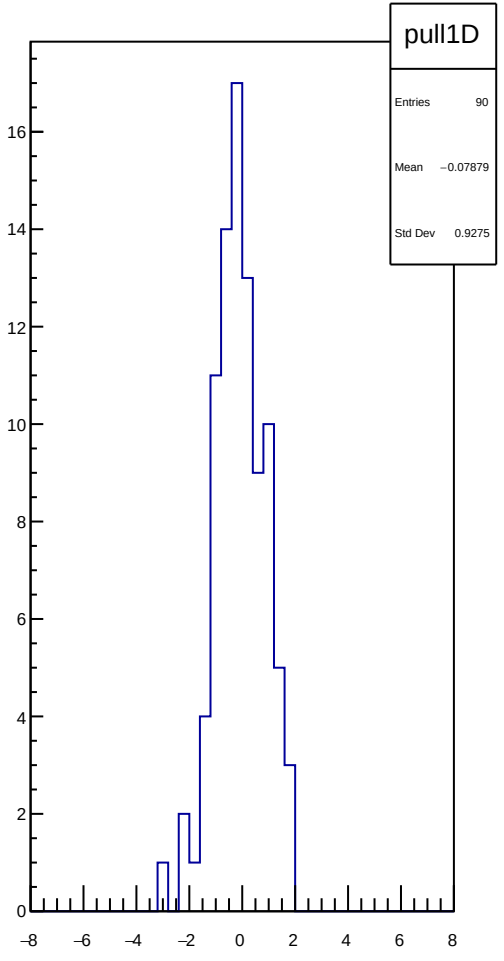

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.31 / 89
p0 −0.06672 ± 0.0242
pull
Entries 90
Mean 69.91
Std Dev 22.76
pull1D
Entries 90
Mean −0.05834
Std Dev 0.8756

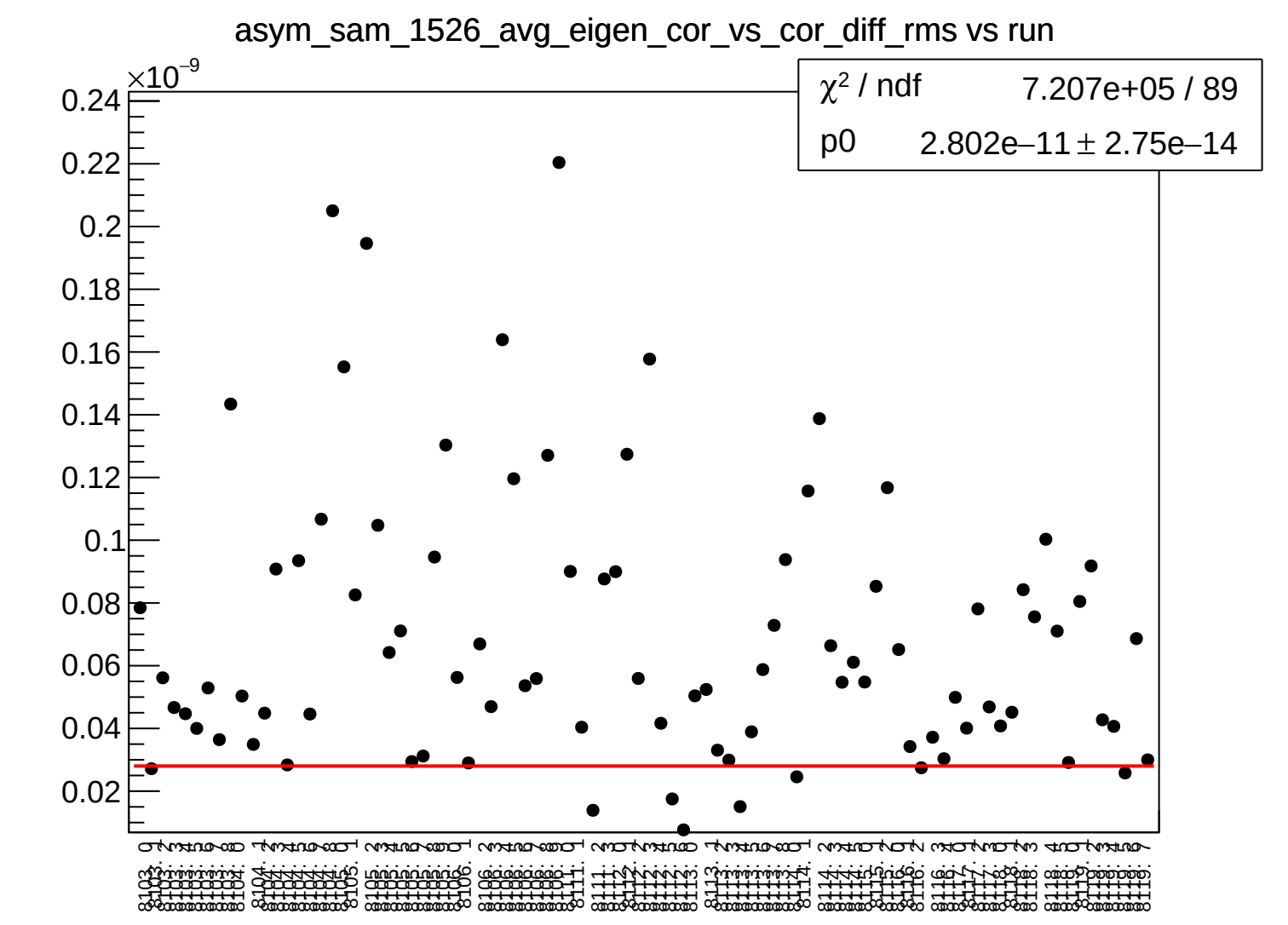

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.739e+04 / 89
p0 22.05 ± 0.01711
60
50
40
30
20
10

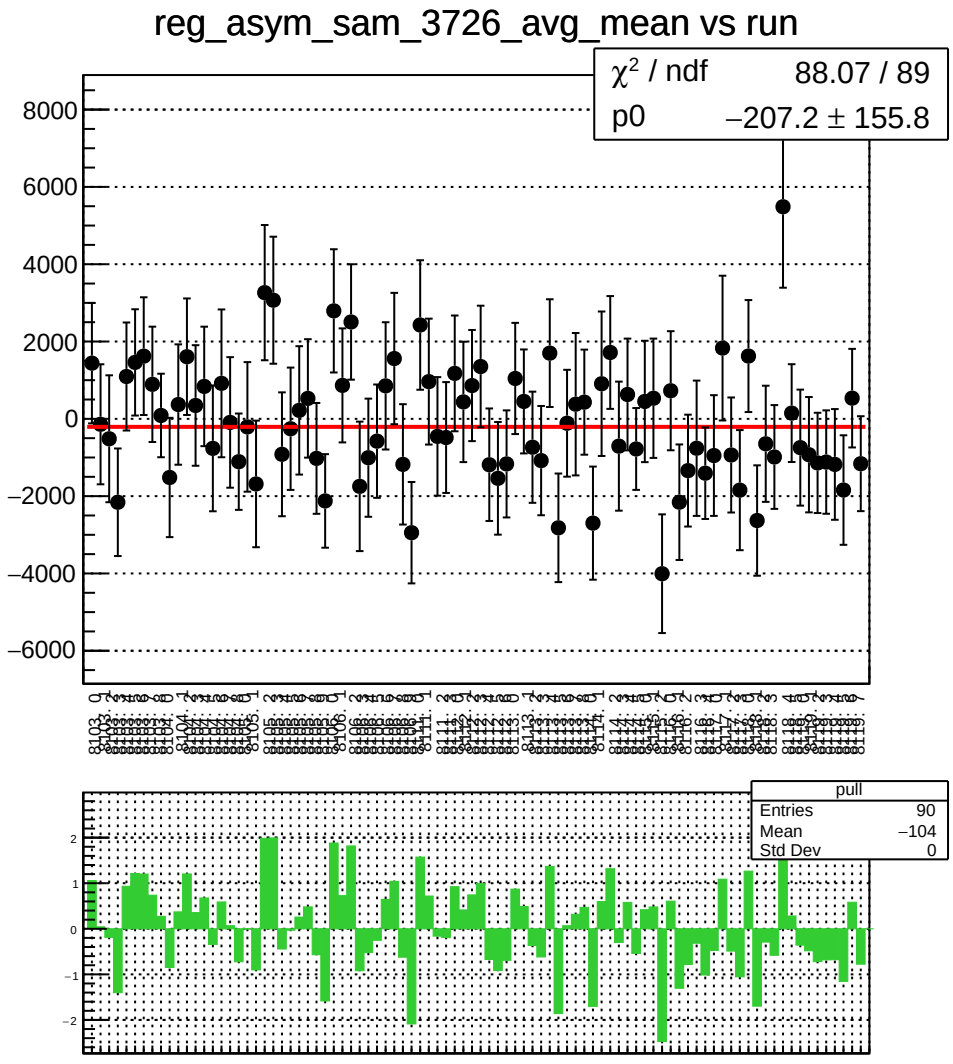

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.31 / 89
p0 −0.06672 ± 0.0242
pull
Entries 90
Mean 69.91
Std Dev 22.76
pull1D
Entries 90
Mean −0.05834
Std Dev 0.8756

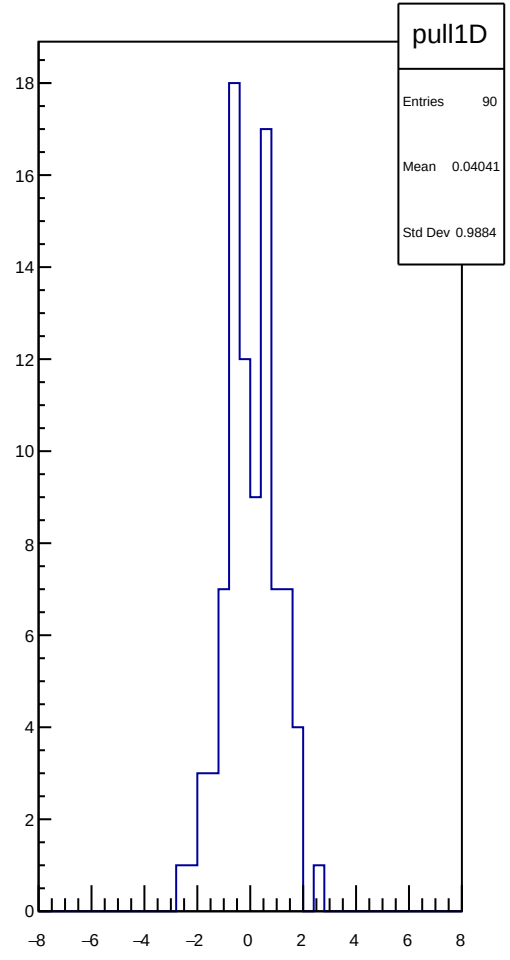

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.739e+04 / 89
p0 22.05 ± 0.01711
60
50
40
30
20
10

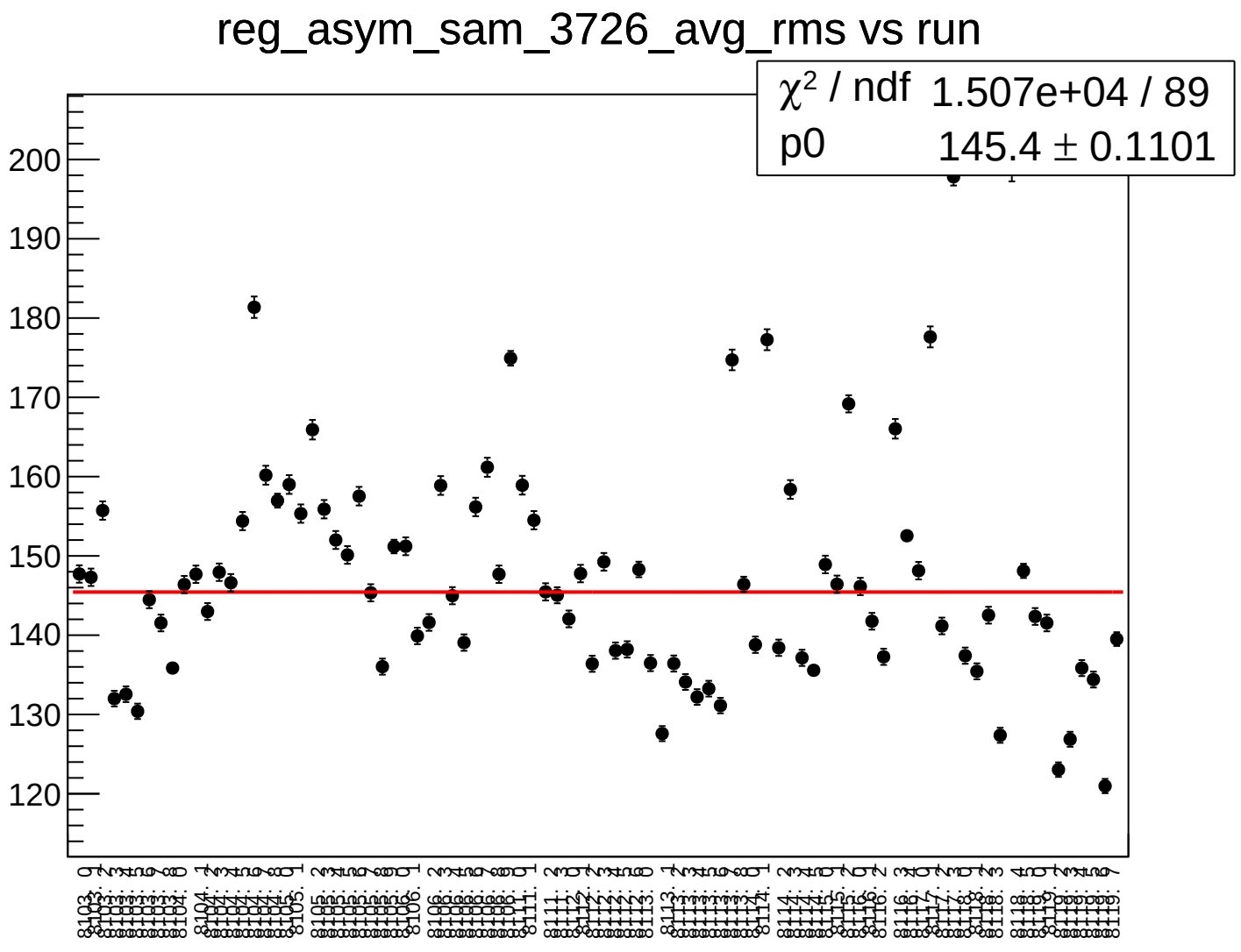

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.99 / 89
p0 2.834e−14 ± 3.889e−14
pull
Entries 90
Mean 51.68
Std Dev 13.64

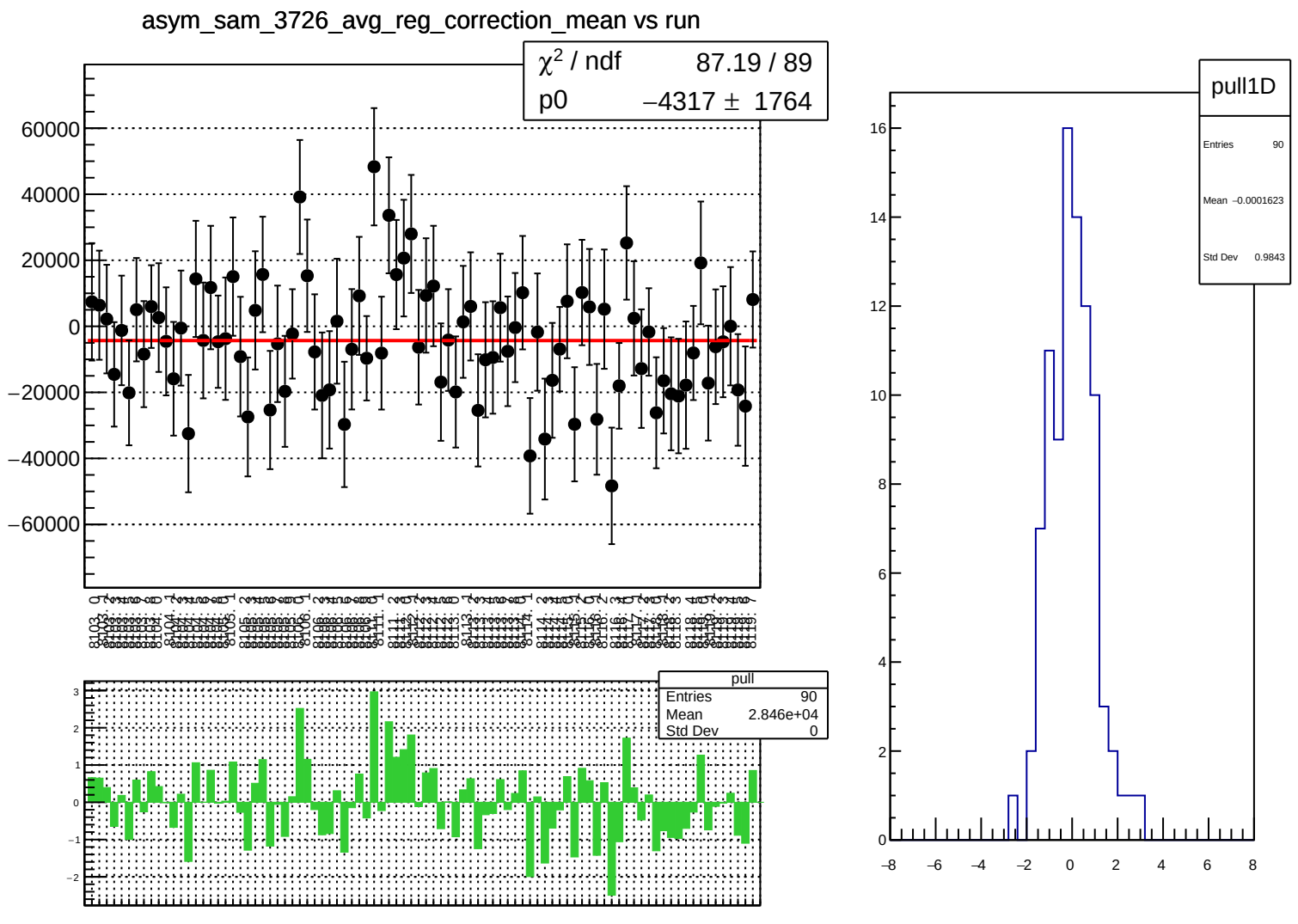

pull1D
Entries 90
Mean −0.07879
Std Dev 0.9275

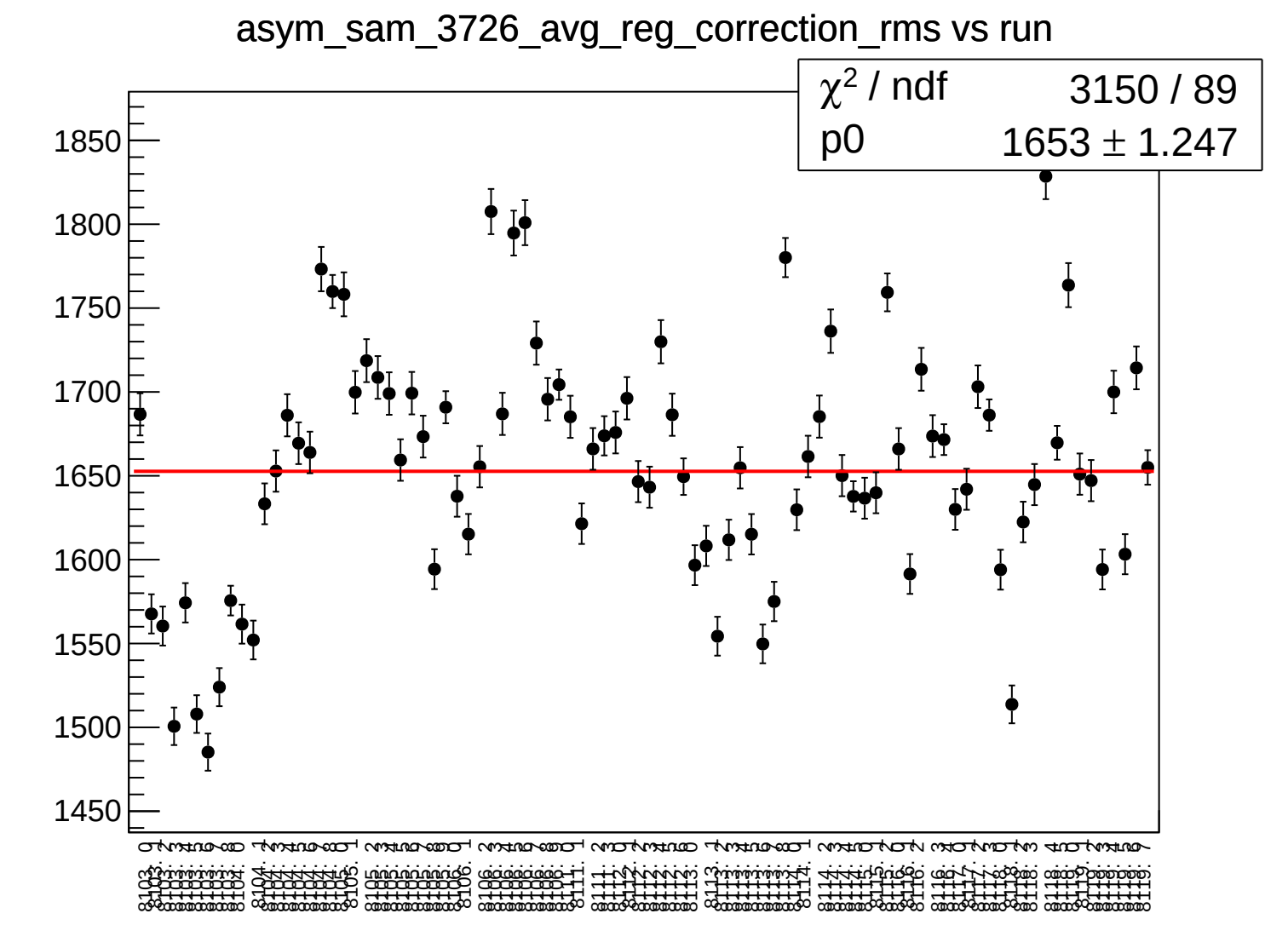

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.207e+05 / 89
p0 2.802e−11 ± 2.75e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

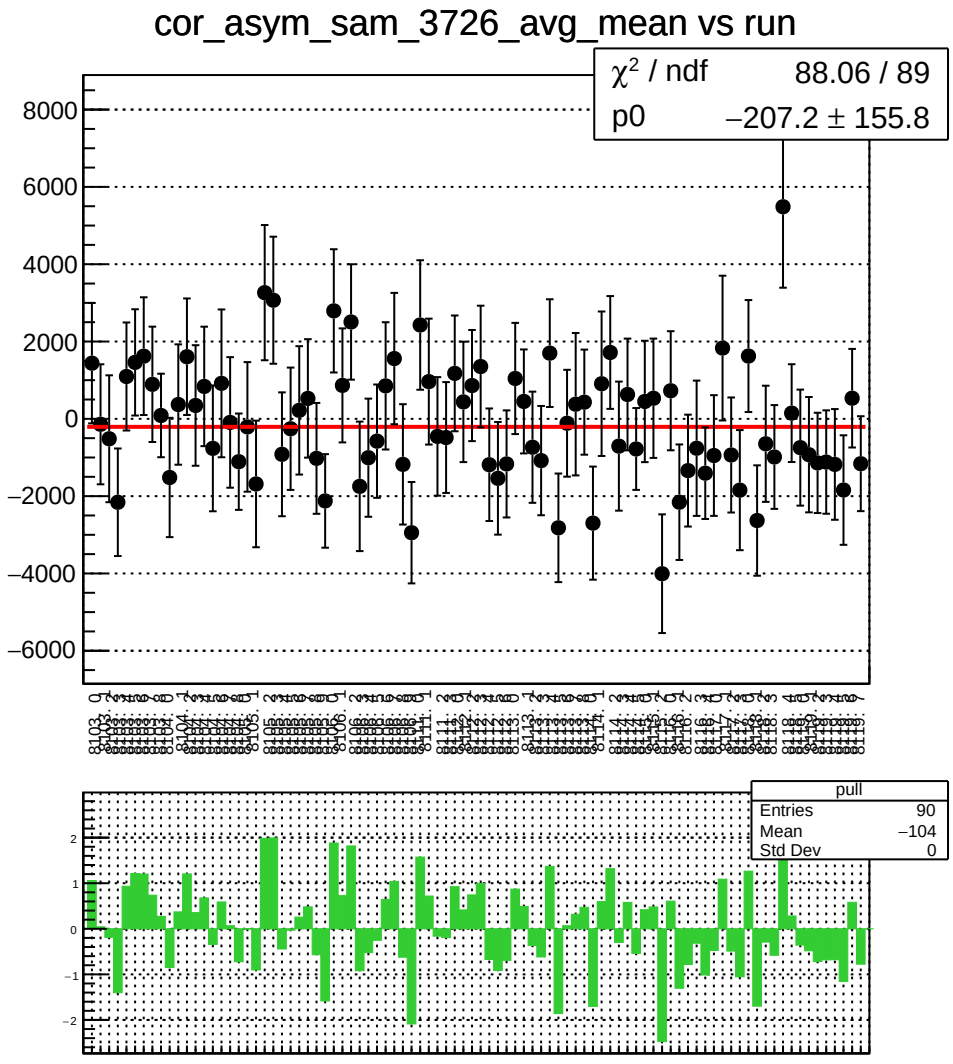

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 88.07 / 89
p0 −207.2 ± 155.8
pull
Entries 90
Mean −104
Std Dev 0

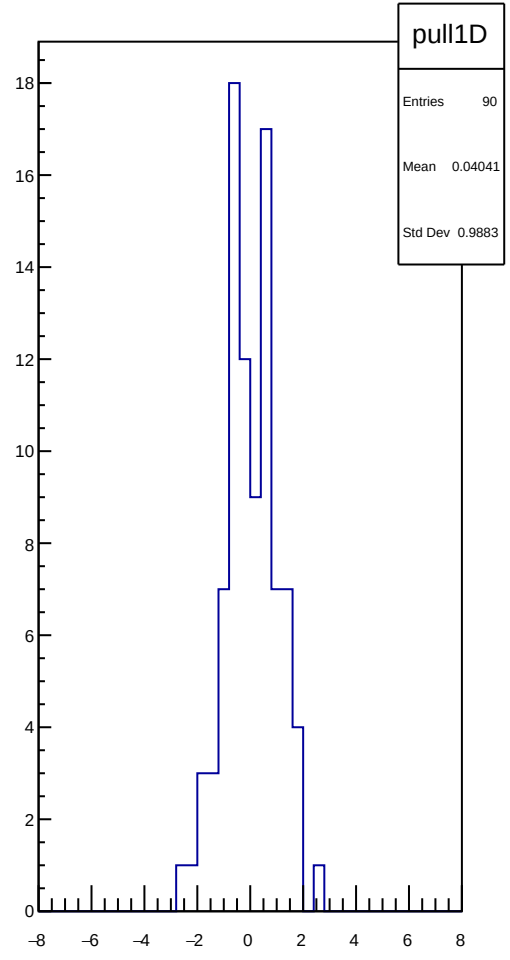

pull1D
Entries 90
Mean 0.04041
Std Dev 0.9884

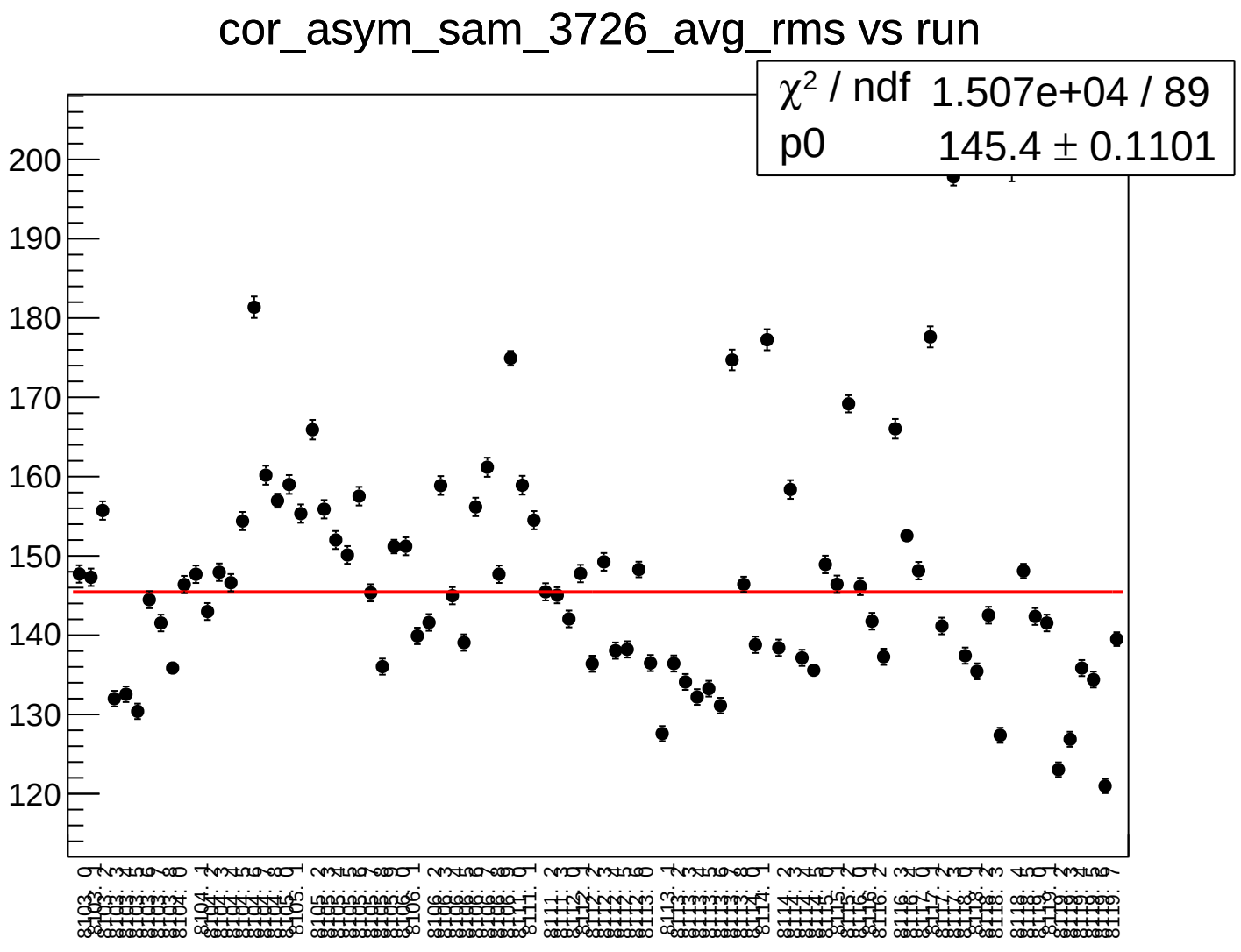

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.507e+04 / 89
p0 145.4 ± 0.1101
200
190
180
170
160
150
140
130
120

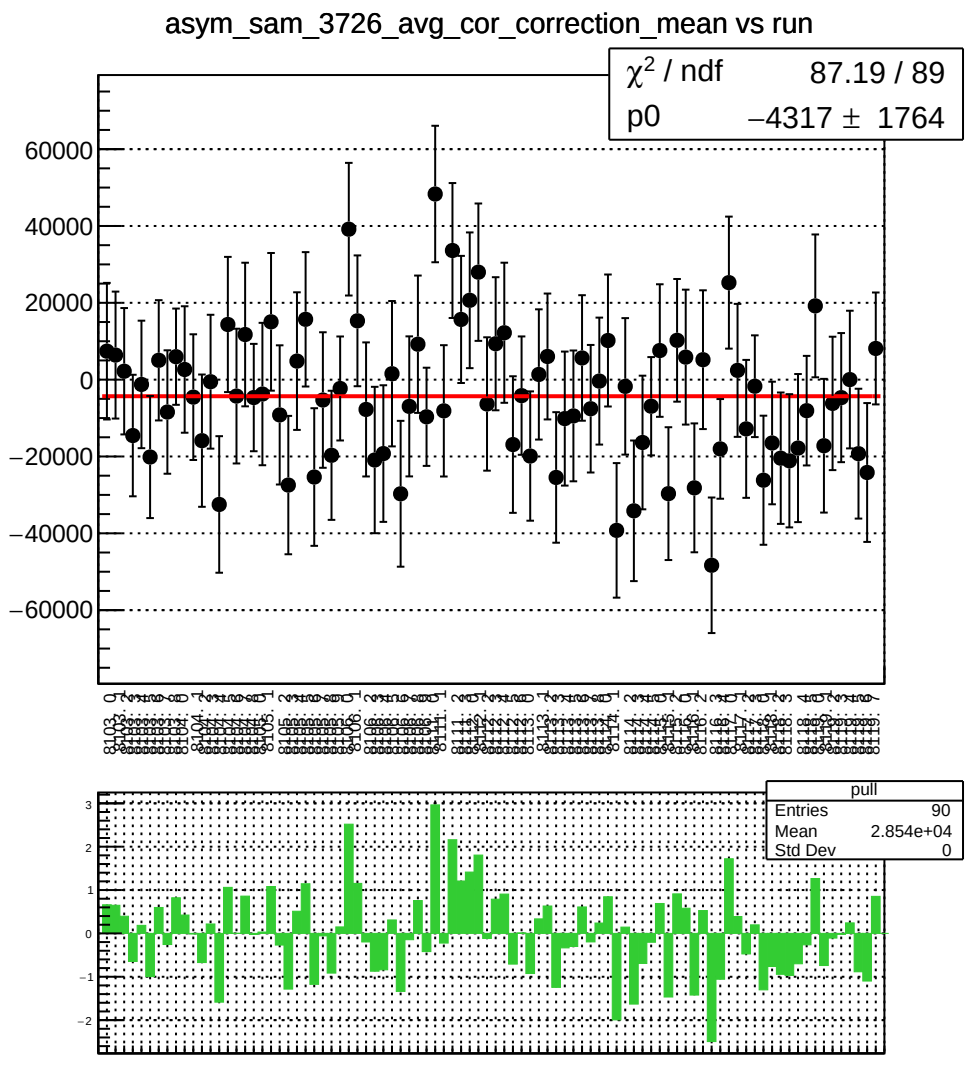

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 87.19 / 89
p0 −4317 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 2.846e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0001623
Std Dev 0.9843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

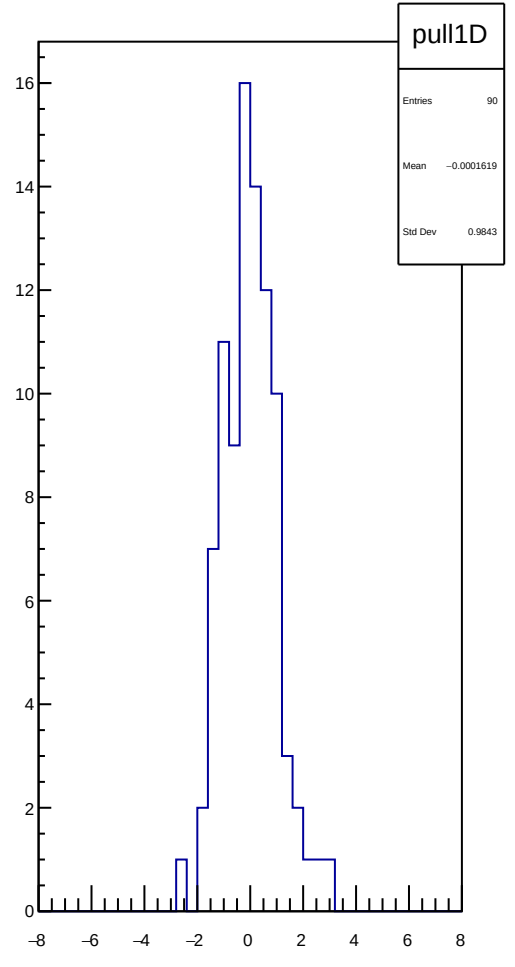

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 3150 / 89
p0 1653 ± 1.247
1850
1800
1750
1700
1650
1600
1550
1500
1450

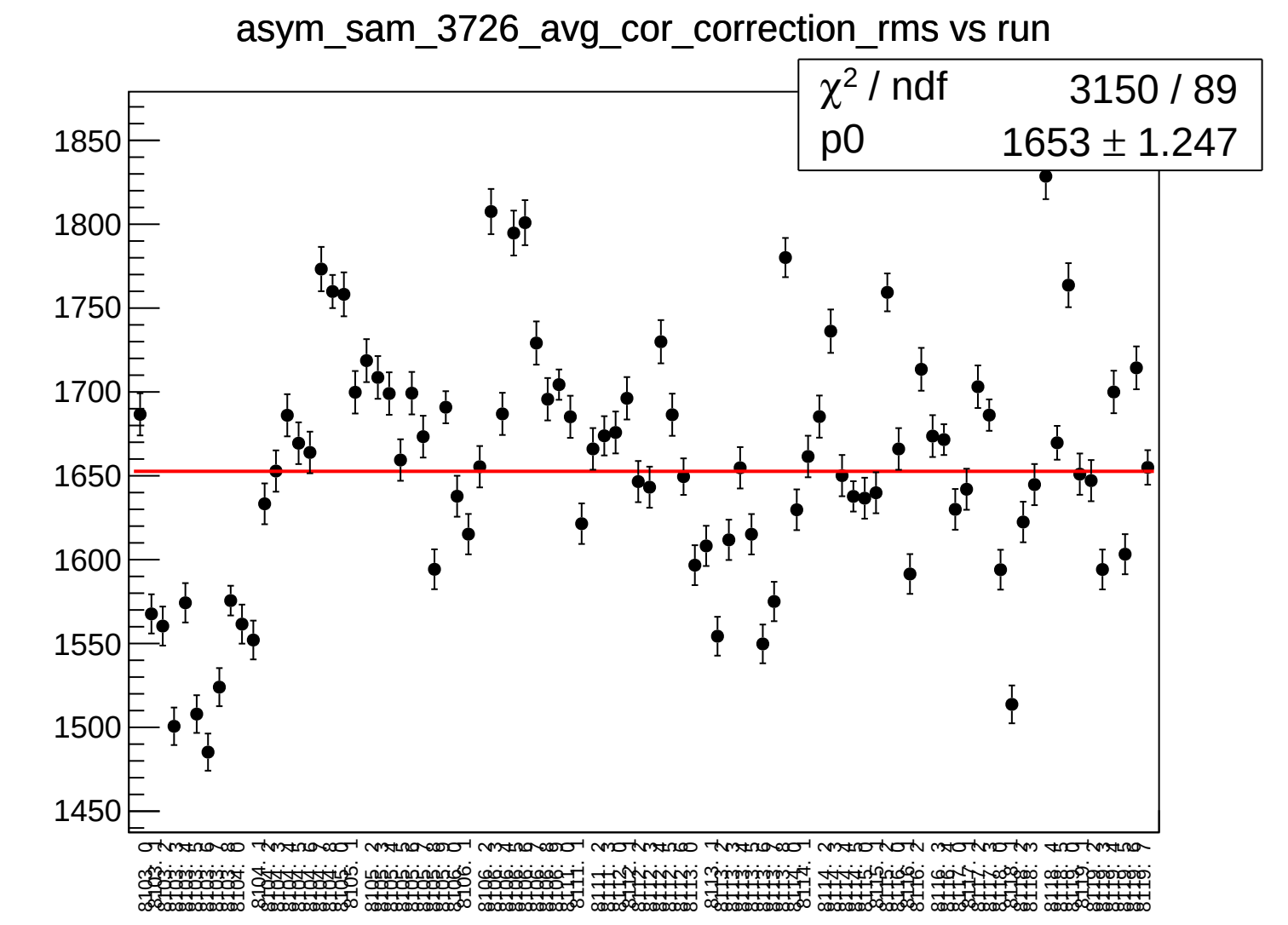

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 88.06 / 89
p0 −207.2 ± 155.8
pull
Entries 90
Mean −104
Std Dev 0

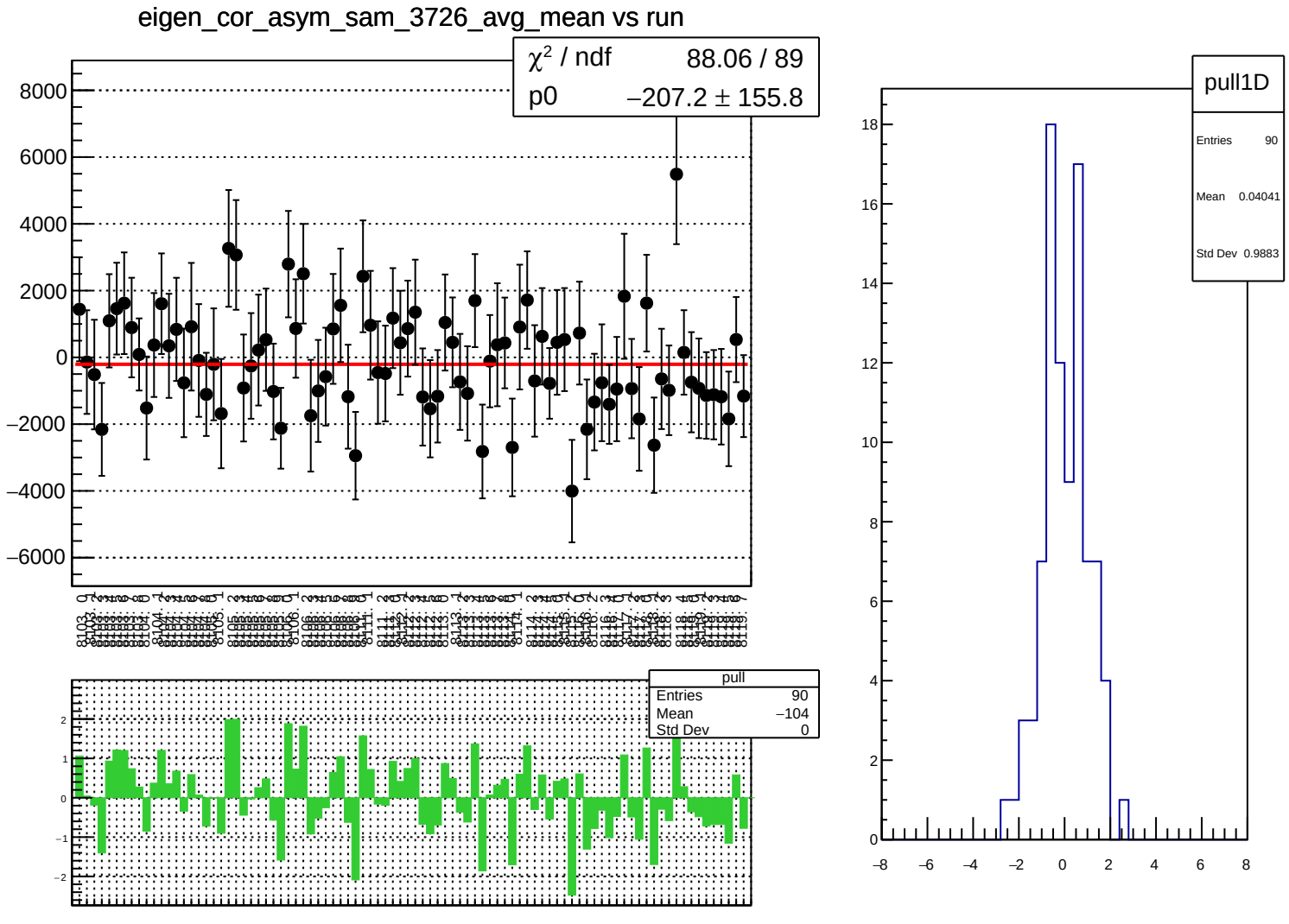

pull1D
Entries 90
Mean 0.04041
Std Dev 0.9883

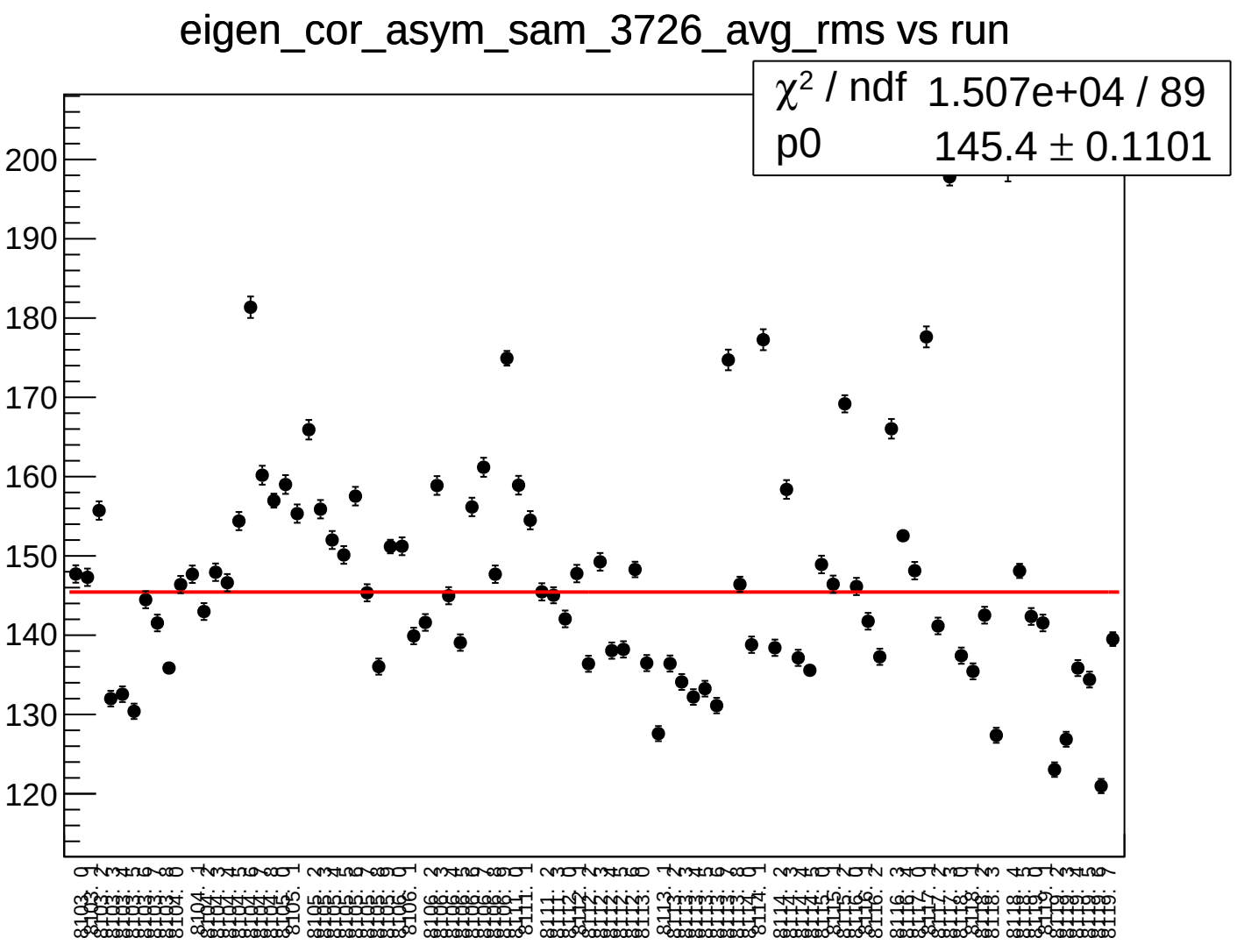

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.507e+04 / 89
p0 145.4 ± 0.1101
200
190
180
170
160
150
140
130
120

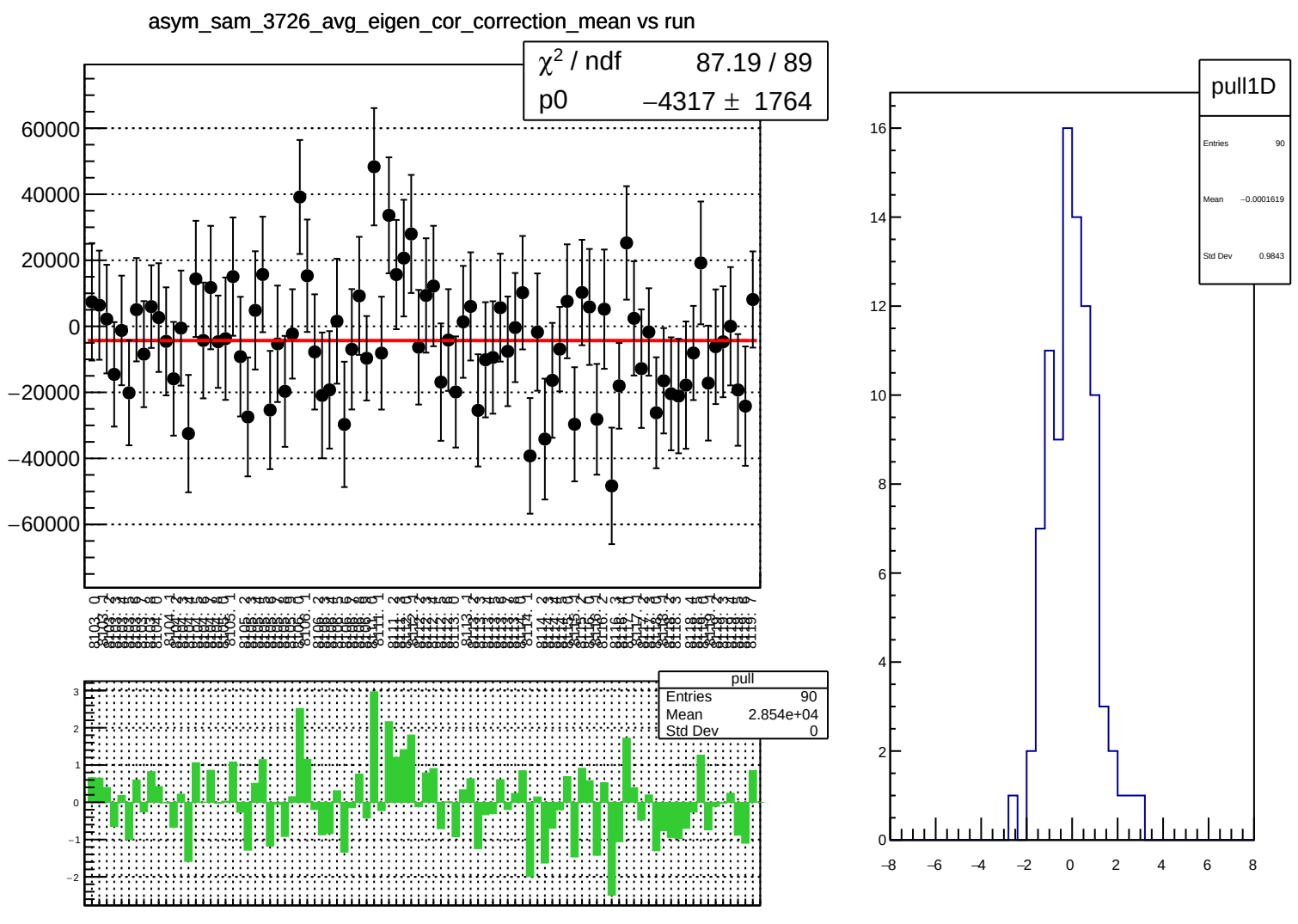

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 87.19 / 89
p0 −4317 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 2.854e+04
Std Dev 0
3
2
1
0
−1
−2

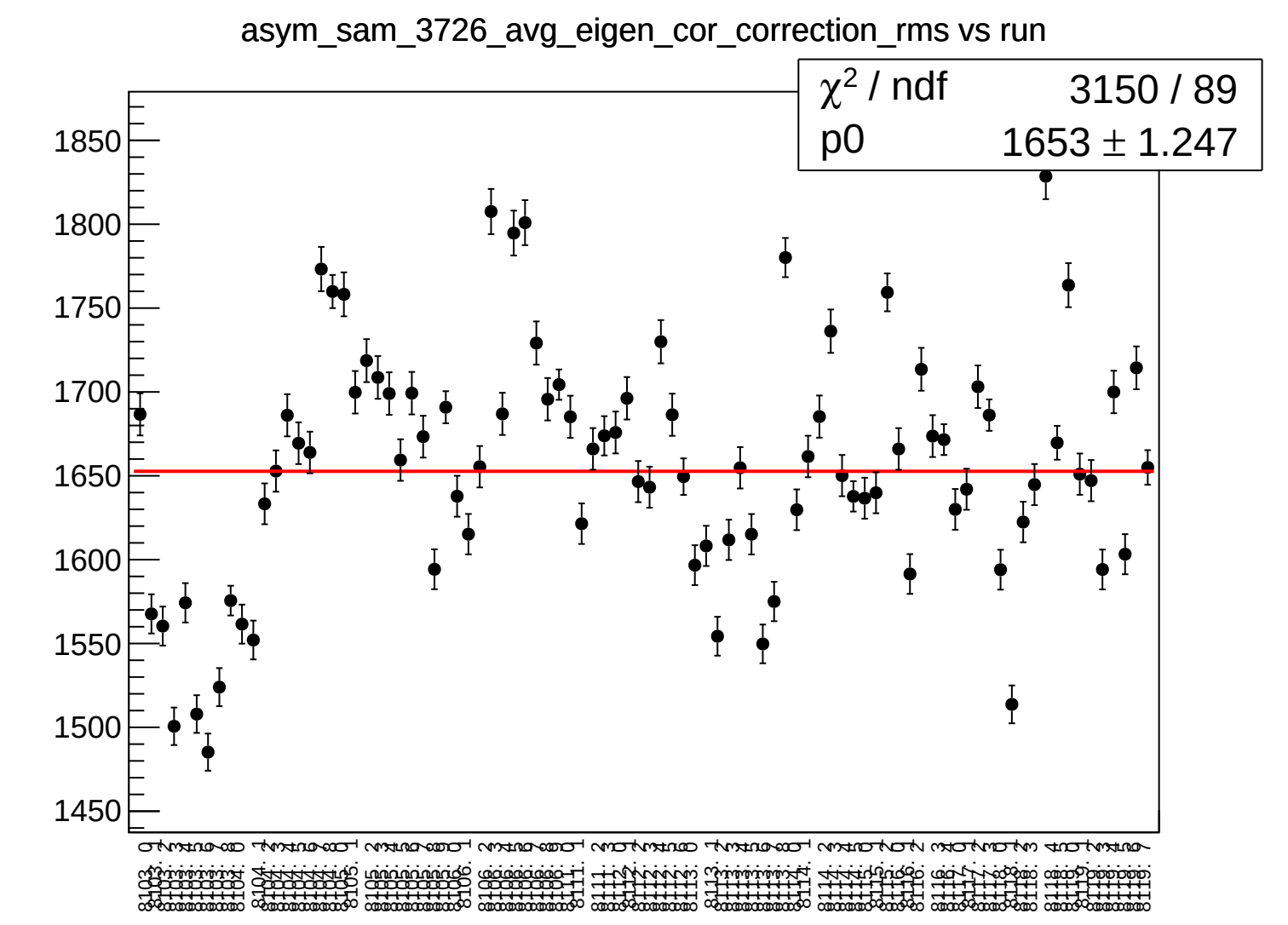

pull1D
Entries 90
Mean −0.0001619
Std Dev 0.9843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

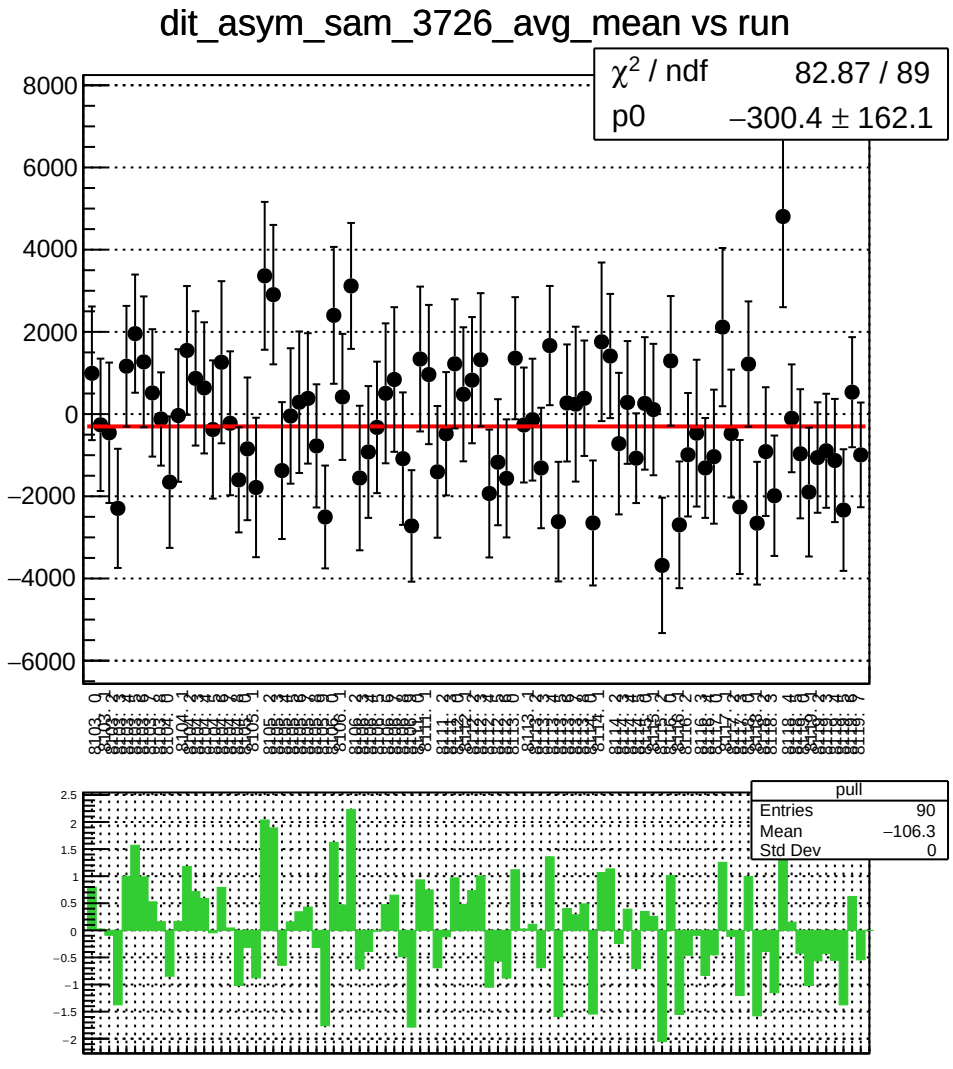

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 3150 / 89
p0 1653 ± 1.247
1850
1800
1750
1700
1650
1600
1550
1500
1450

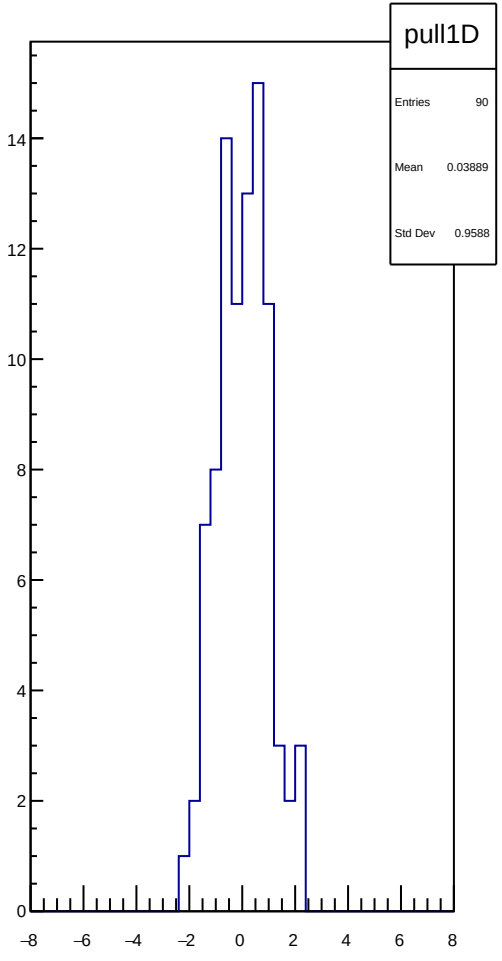

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 88.06 / 89
p0 −207.2 ± 155.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 90
Mean −104
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.04041
Std Dev 0.9883
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

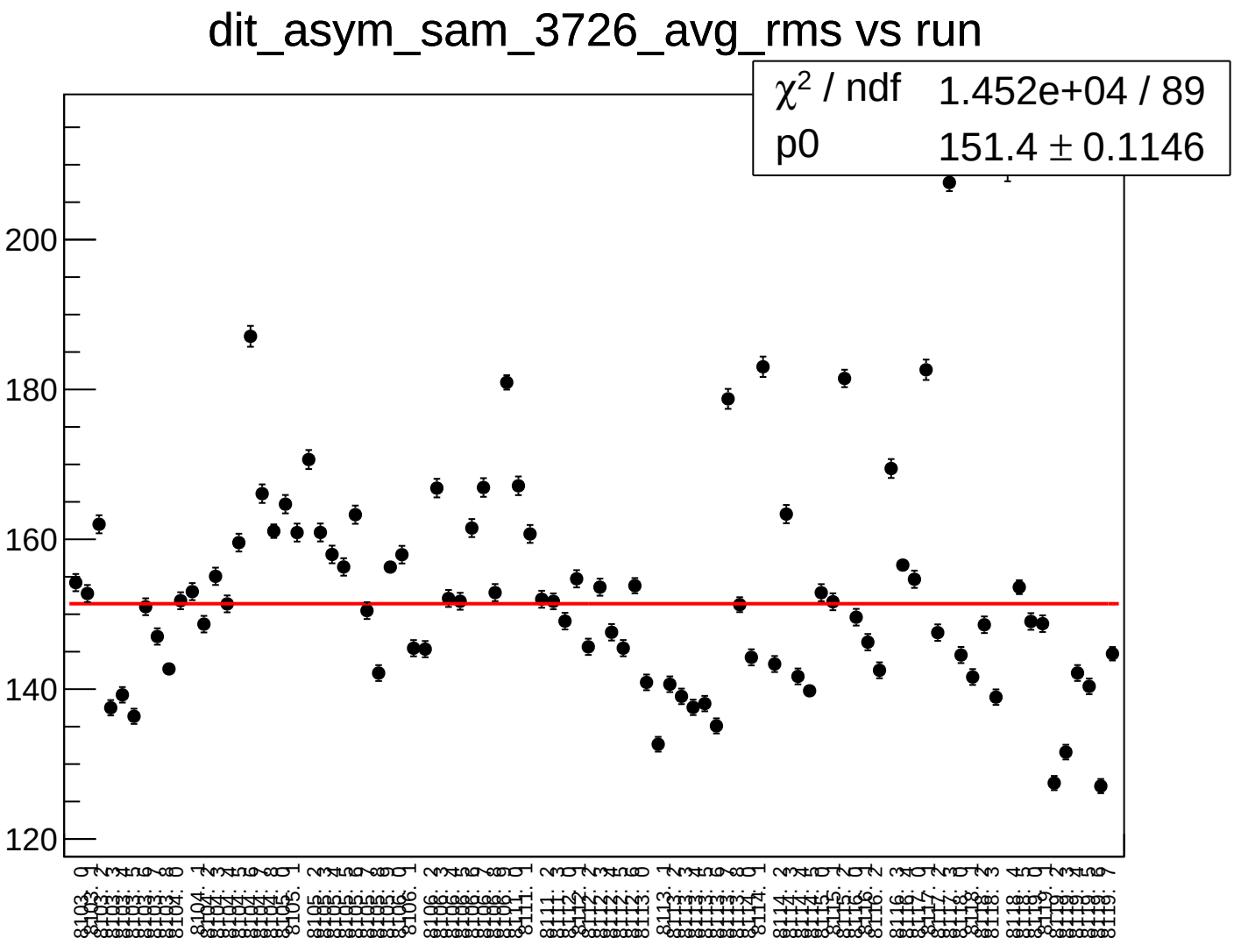

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.507e+04 / 89
p0 145.4 ± 0.1101
200
190
180
170
160
150
140
130
120

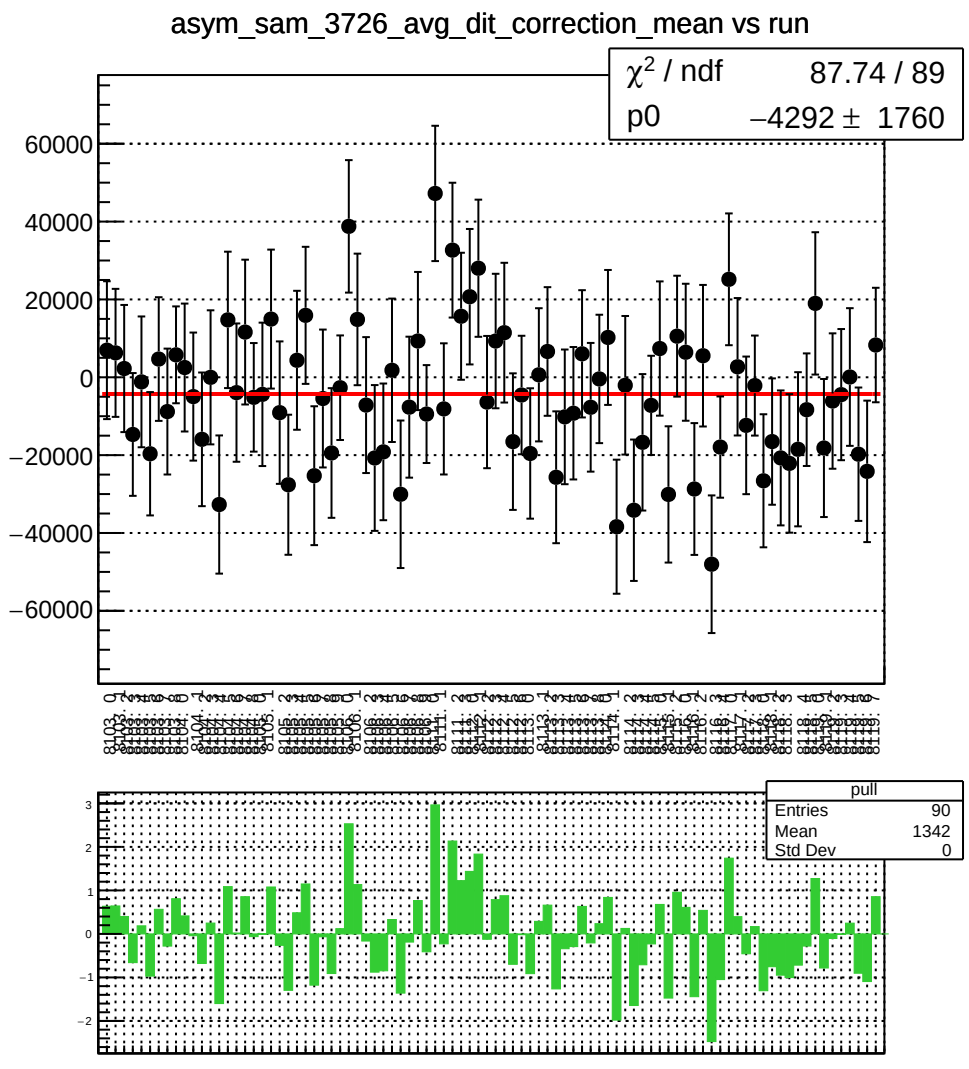

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.19 / 89
p0 −4317 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 2.854e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.0001619
Std Dev 0.9843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

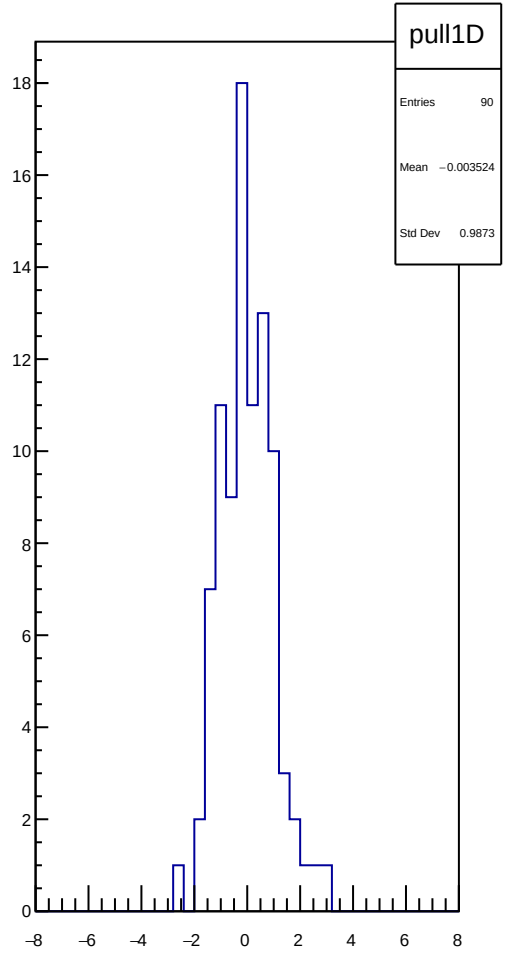

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 3150 / 89
p0 1653 ± 1.247
1850
1800
1750
1700
1650
1600
1550
1500
1450

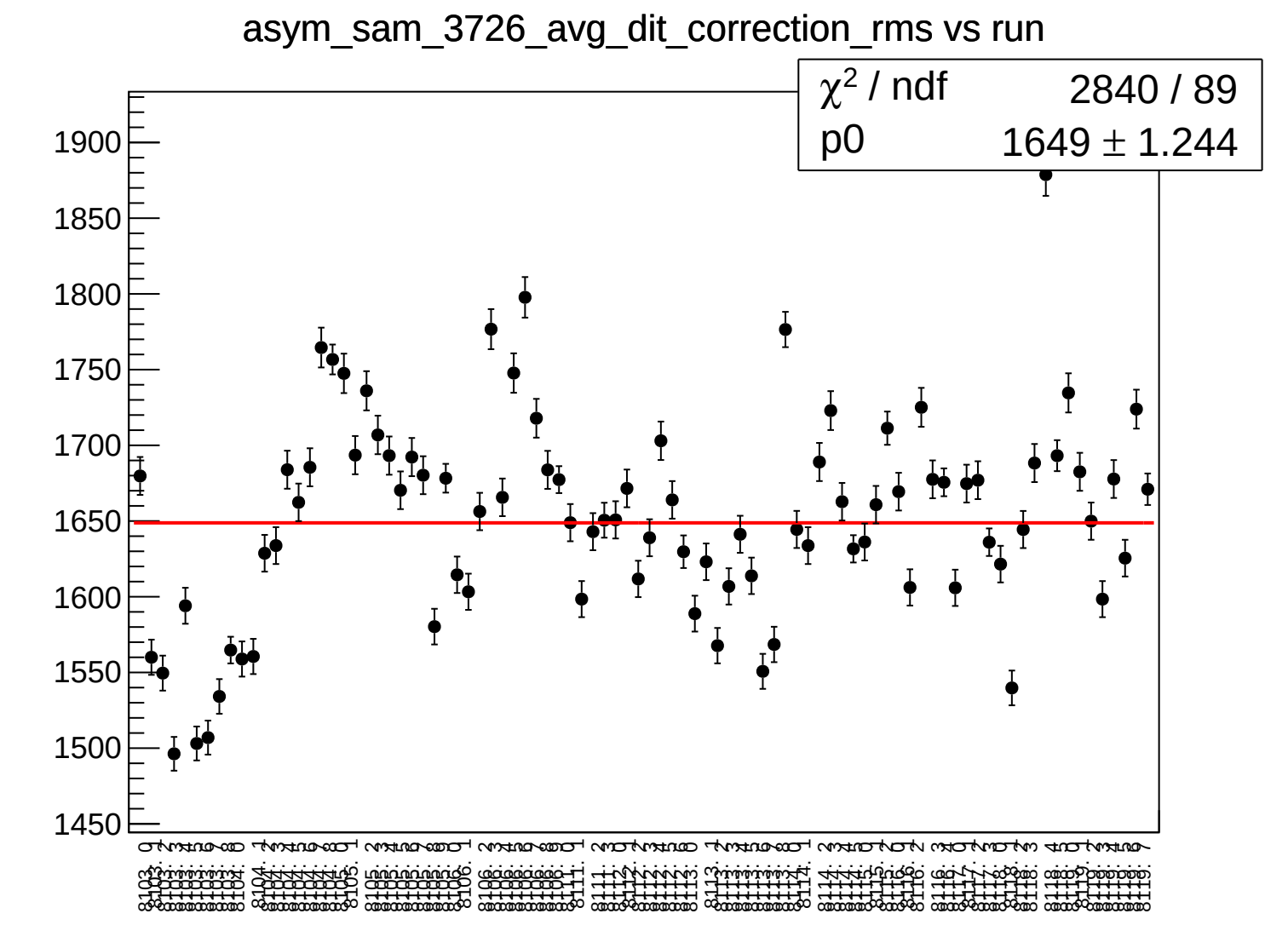

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 82.87 / 89
p0 −300.4 ± 162.1
pull
Entries 90
Mean −106.3
Std Dev 0

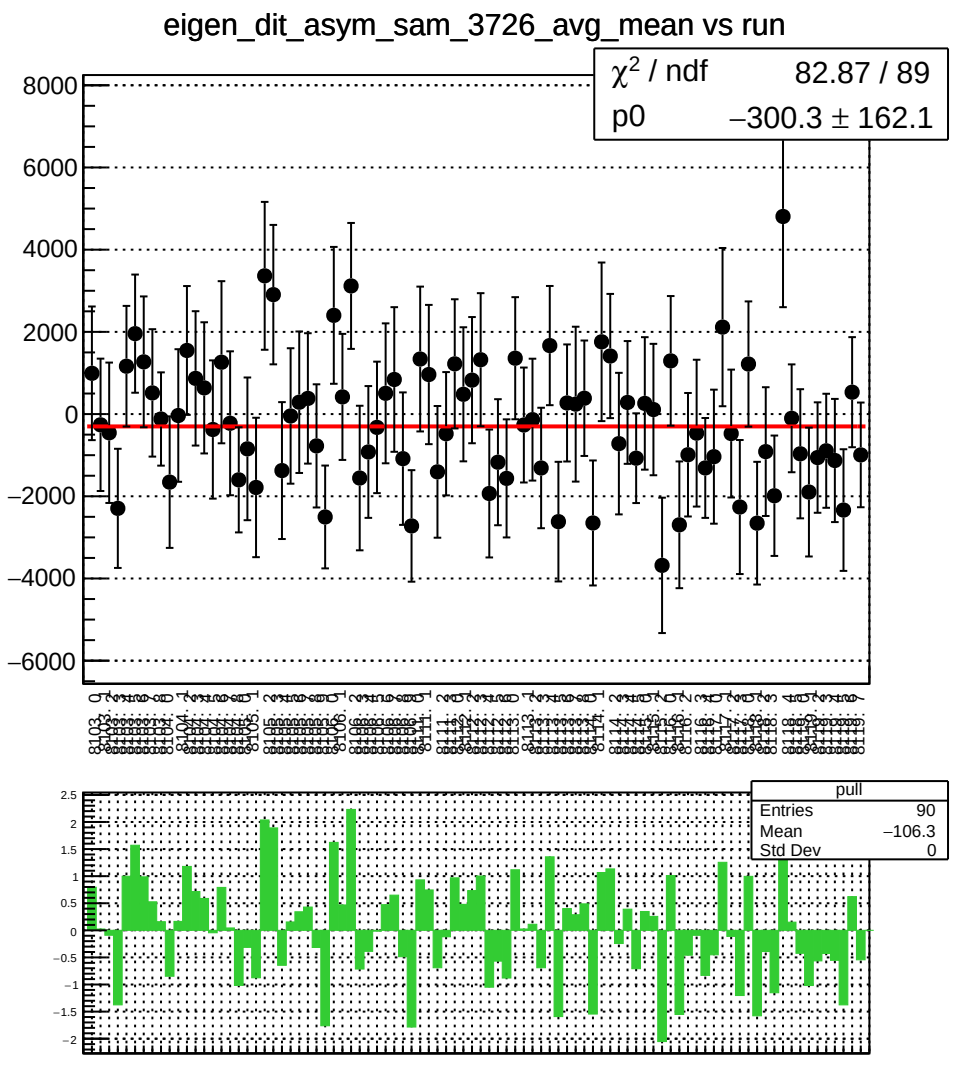

pull1D
Entries 90
Mean 0.03889
Std Dev 0.9588

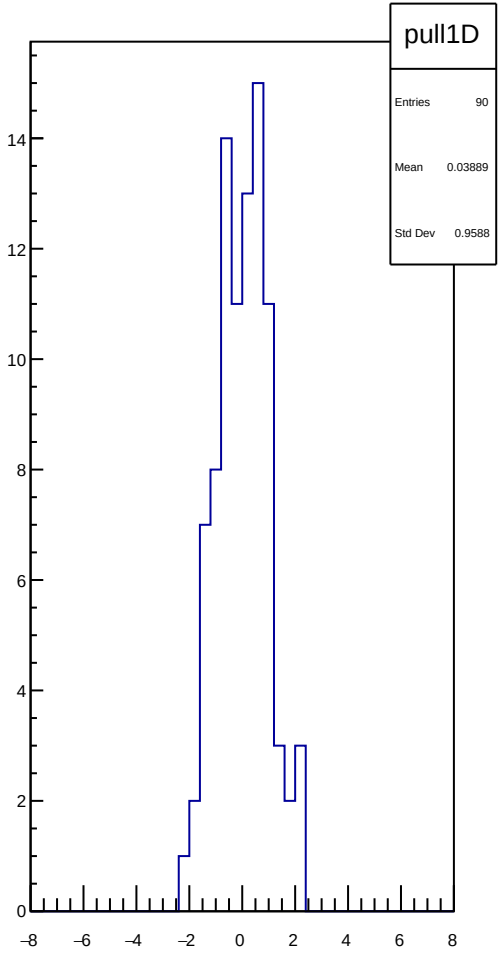

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.452e+04 / 89
p0 151.4 ± 0.1146
200
180
160
140
120

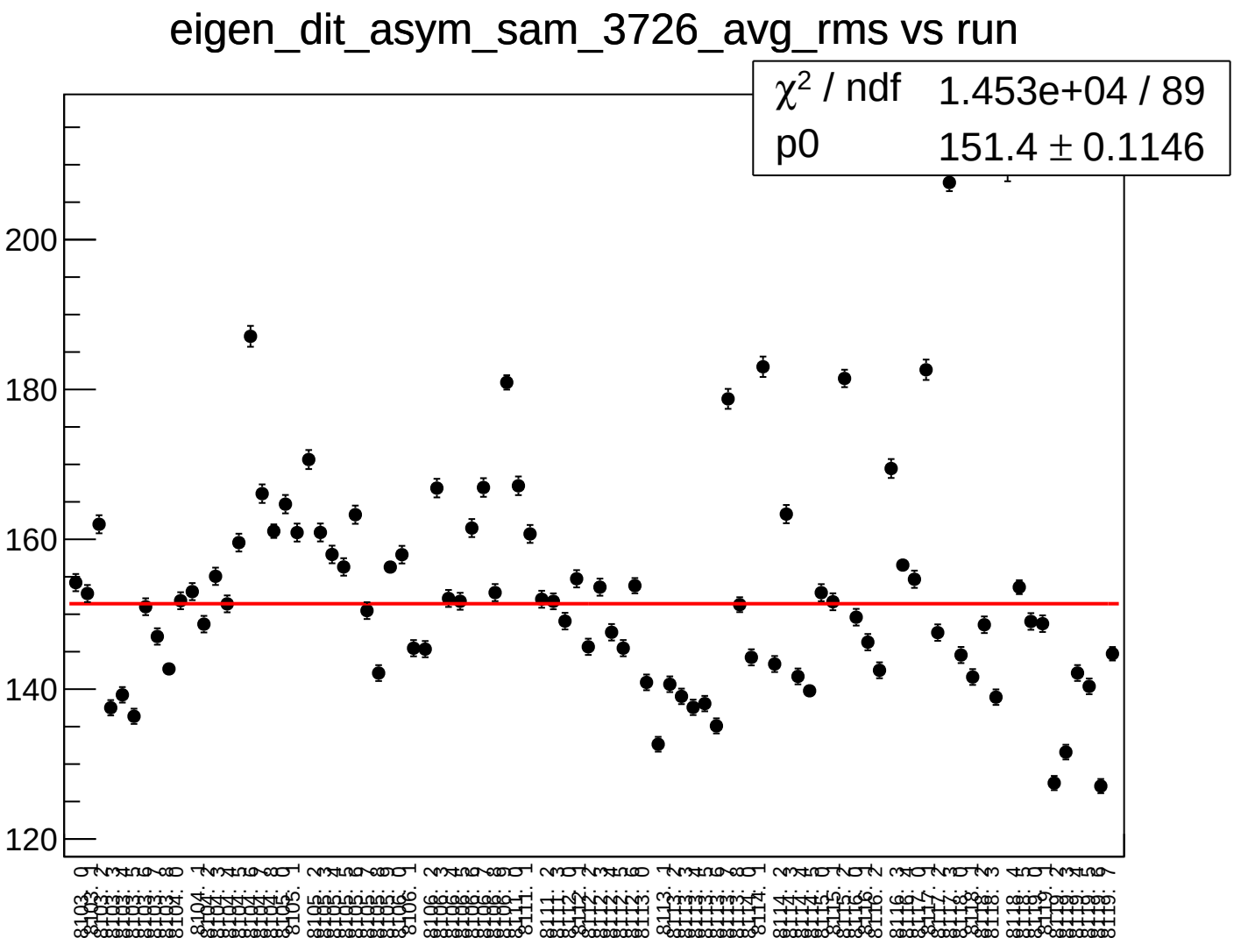

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 87.74 / 89
p0 −4292 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1342
Std Dev 0
3
2
1
0
−1
−2

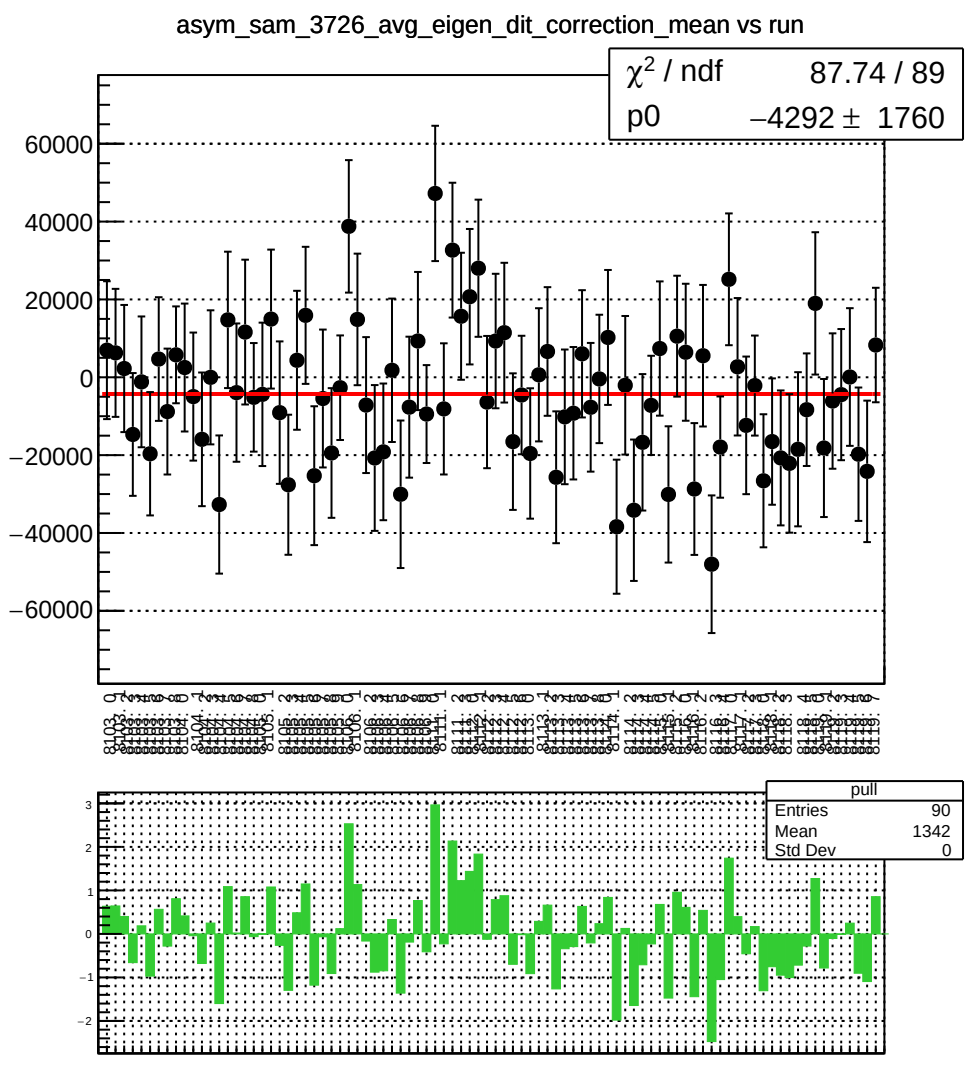

pull1D
Entries 90
Mean −0.003524
Std Dev 0.9873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

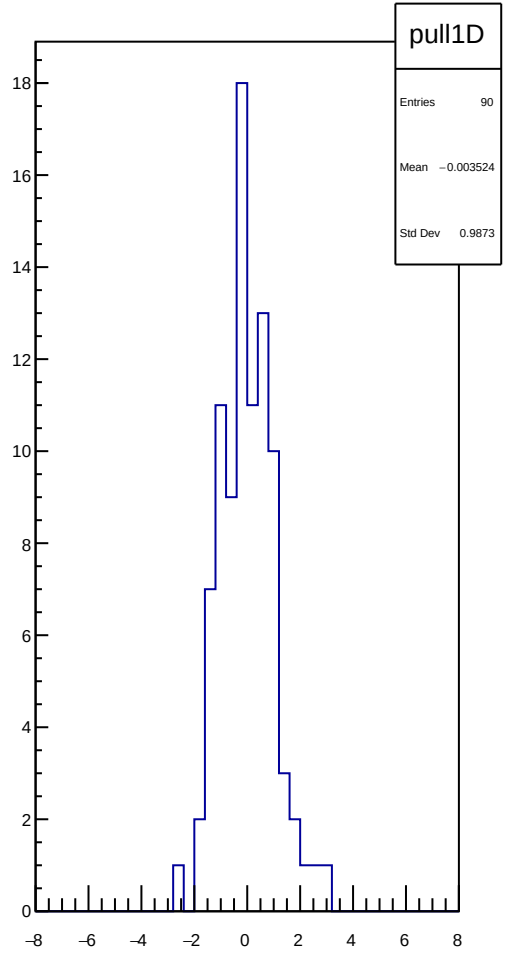

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2840 / 89
p0 1649 ± 1.244
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

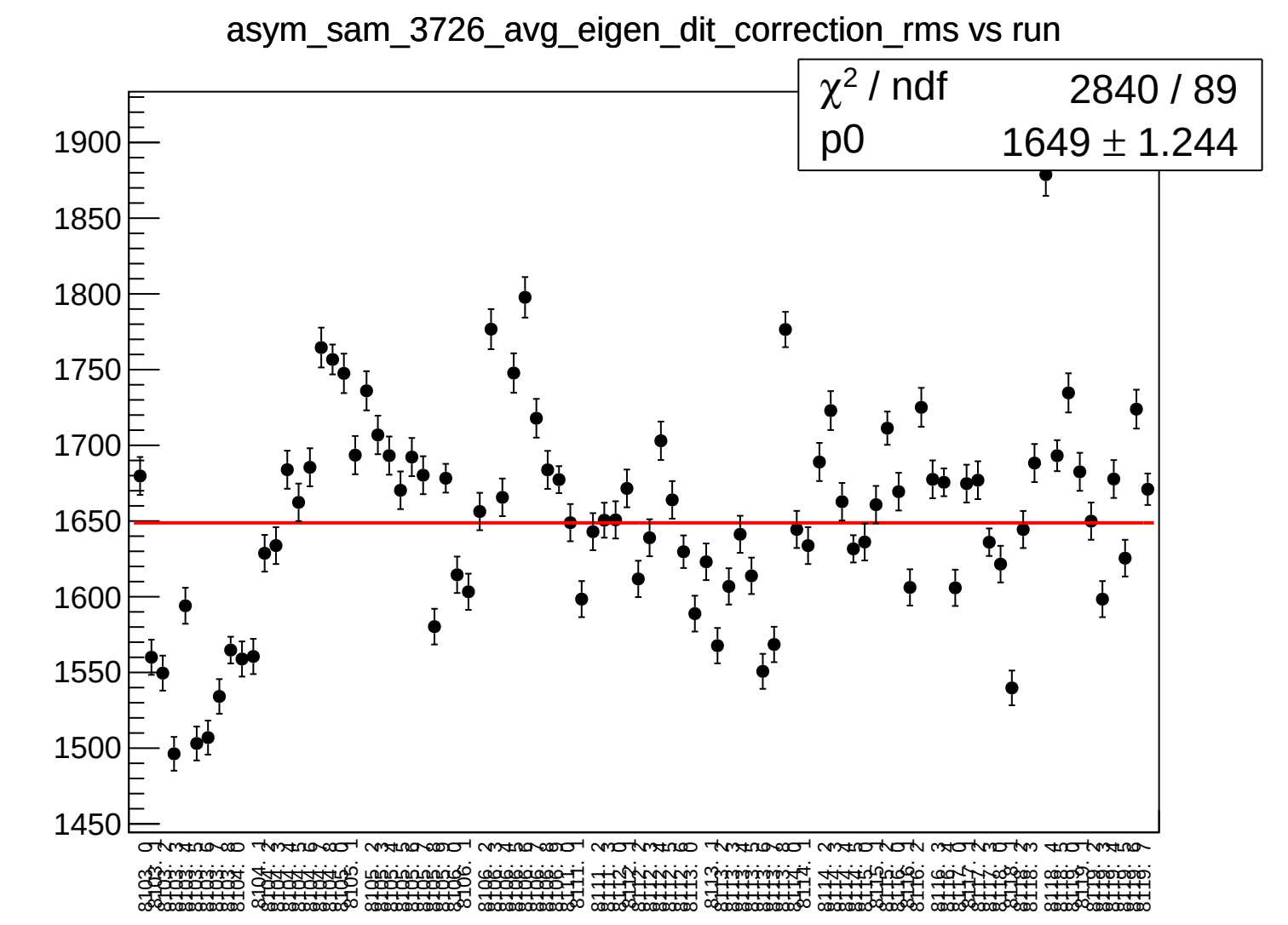

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 82.87 / 89
p0 −300.3 ± 162.1
pull
Entries 90
Mean −106.3
Std Dev 0

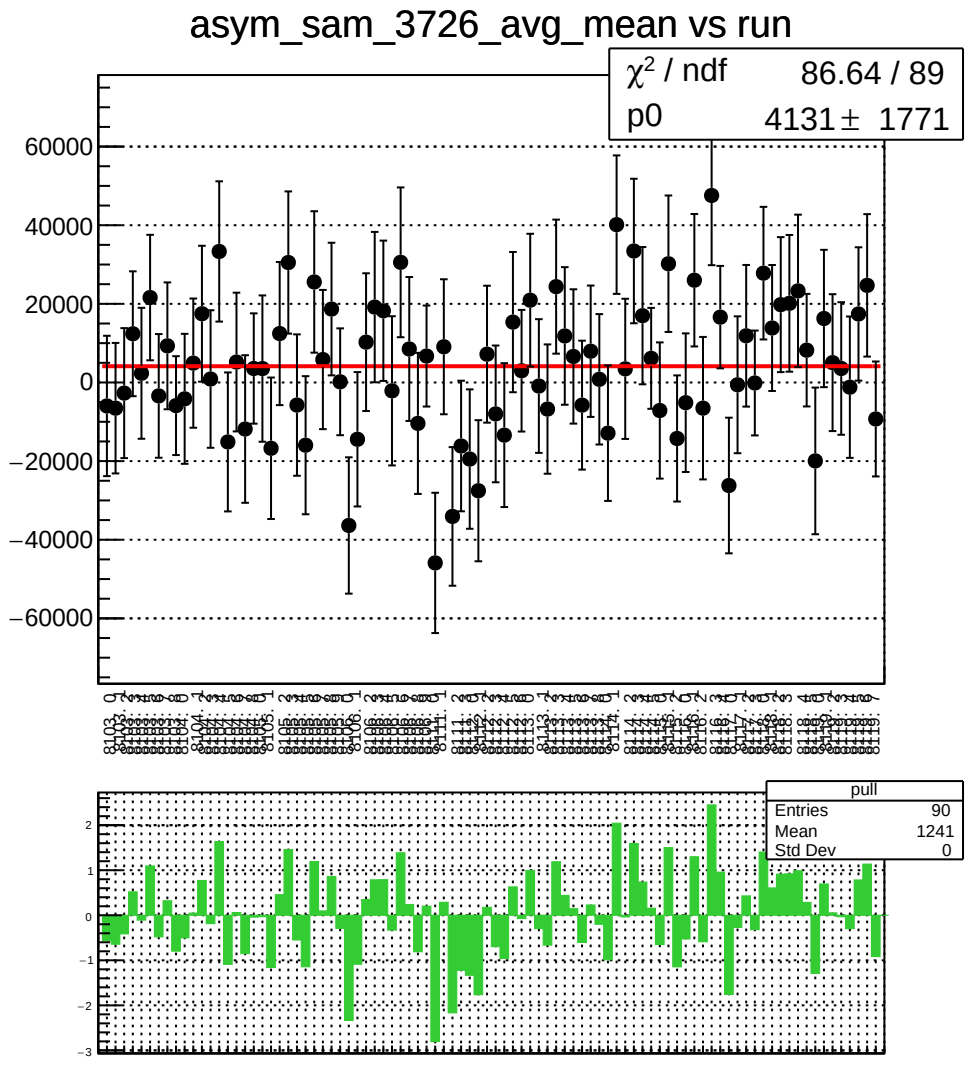

pull1D
Entries 90
Mean 0.03889
Std Dev 0.9588

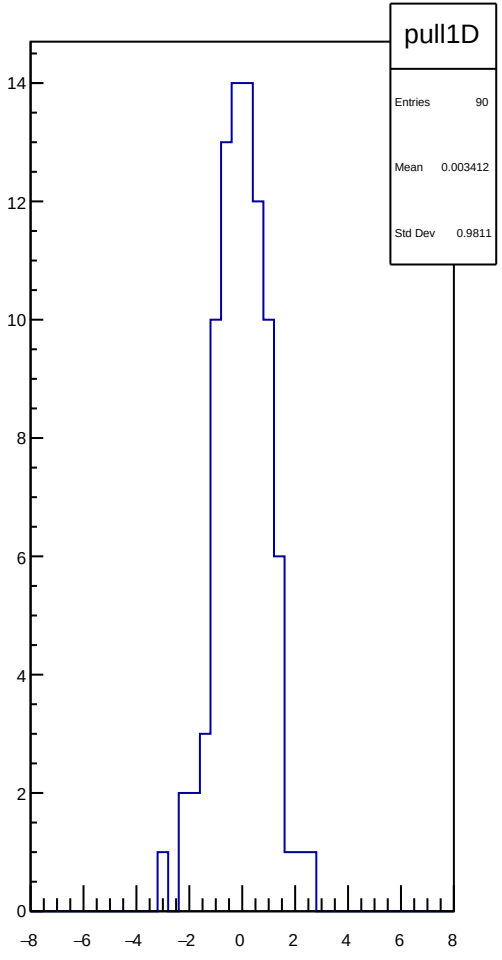

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.453e+04 / 89
p0 151.4 ± 0.1146
200
180
160
140
120

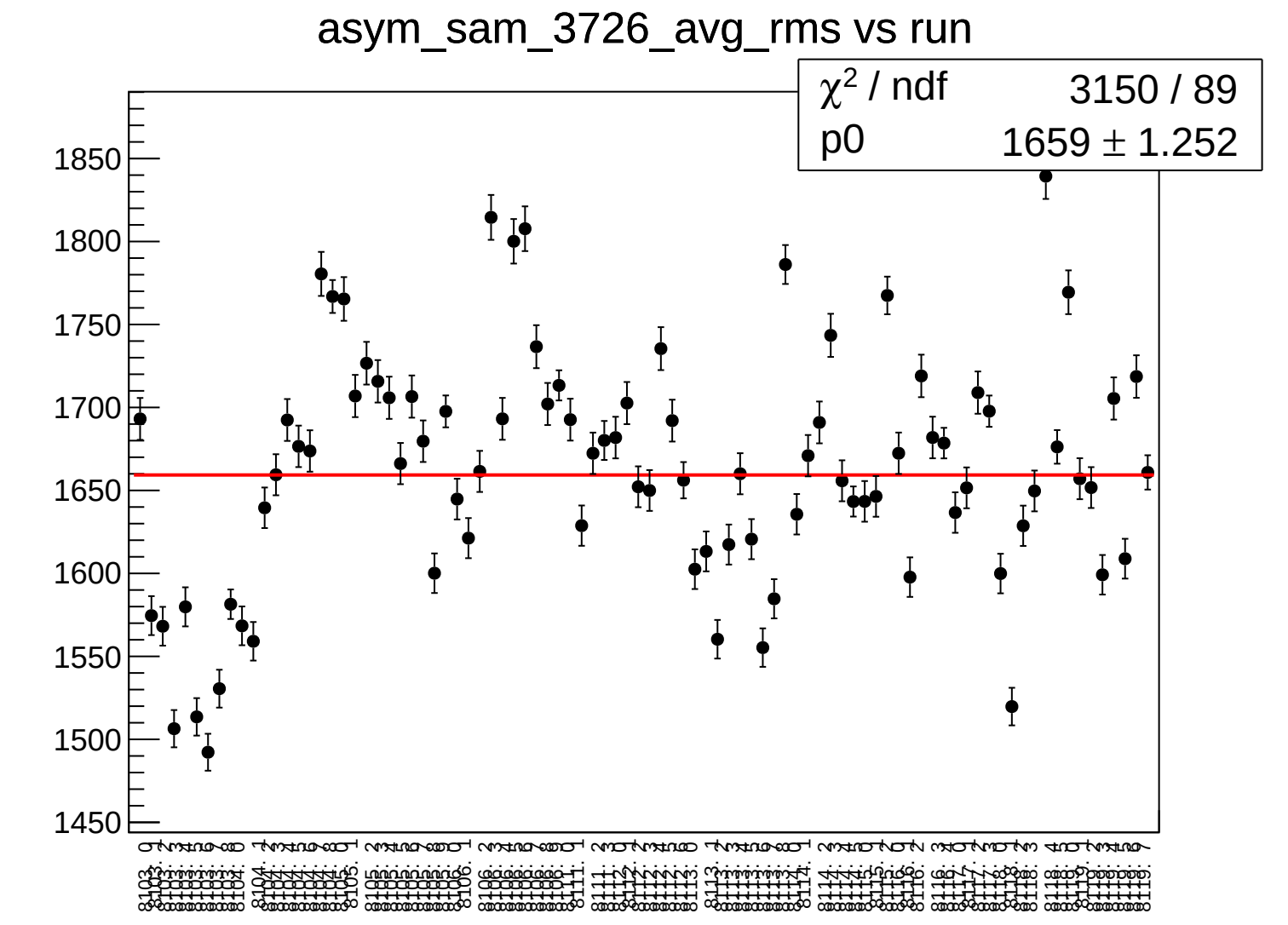

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.74 / 89
p0 −4292 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1342
Std Dev 0
3
2
1
0
−1
−2

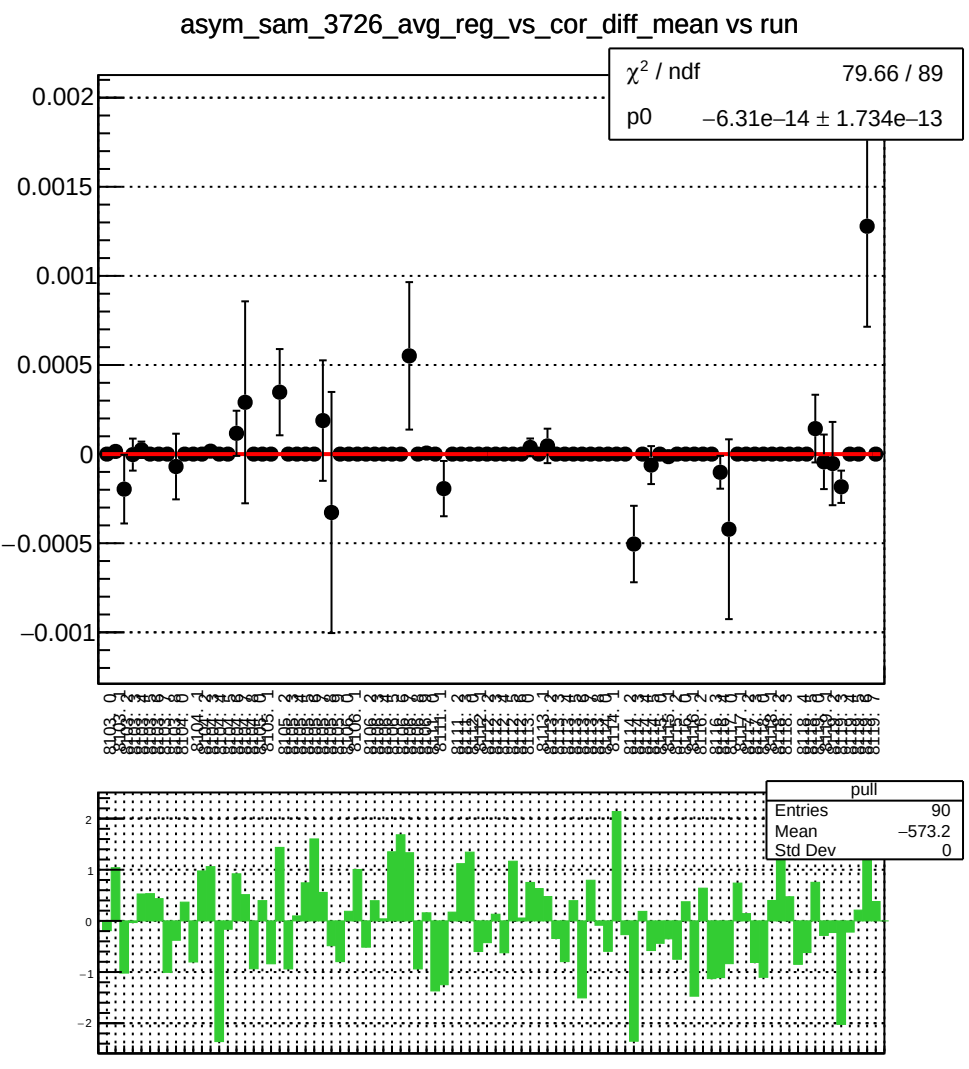

pull1D
Entries 90
Mean −0.003524
Std Dev 0.9873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

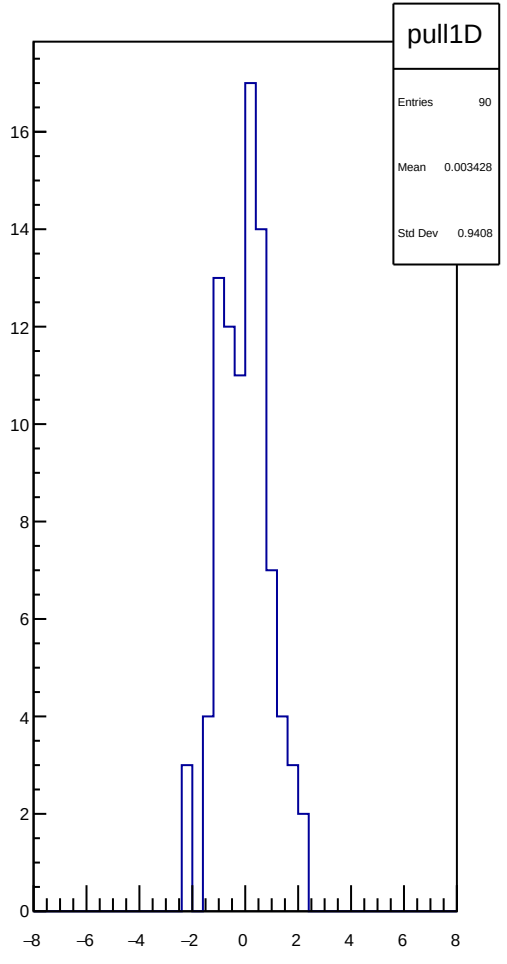

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2840 / 89
p0 1649 ± 1.244
1900
1850
1800
1750
1700
1650
1600
1550
1500
1450

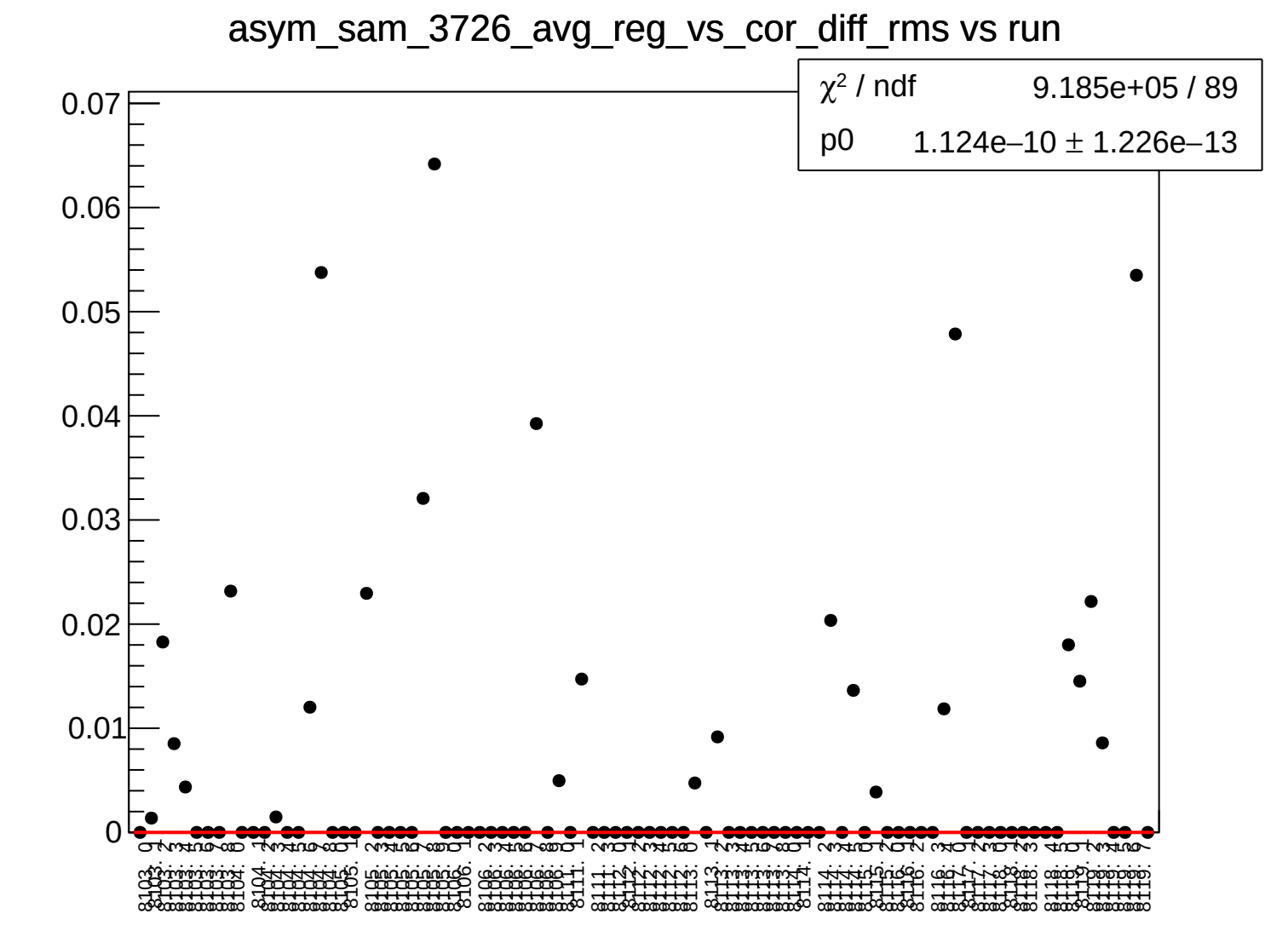

asym_sam_3726_avg_mean vs run
χ² / ndf 86.64 / 89
p0 4131 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean 1241
Std Dev 0
2
1
0
−1
−2
−3

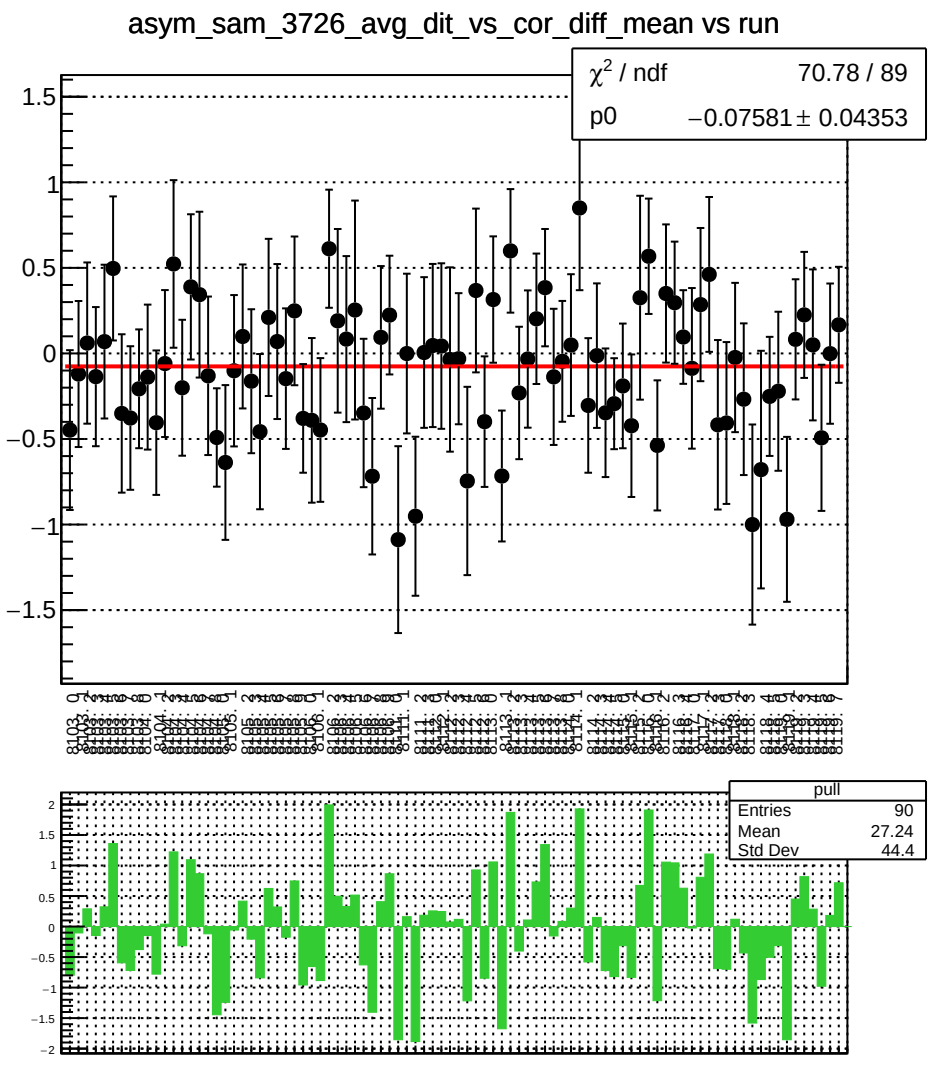

pull1D
Entries 90
Mean 0.003412
Std Dev 0.9811
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

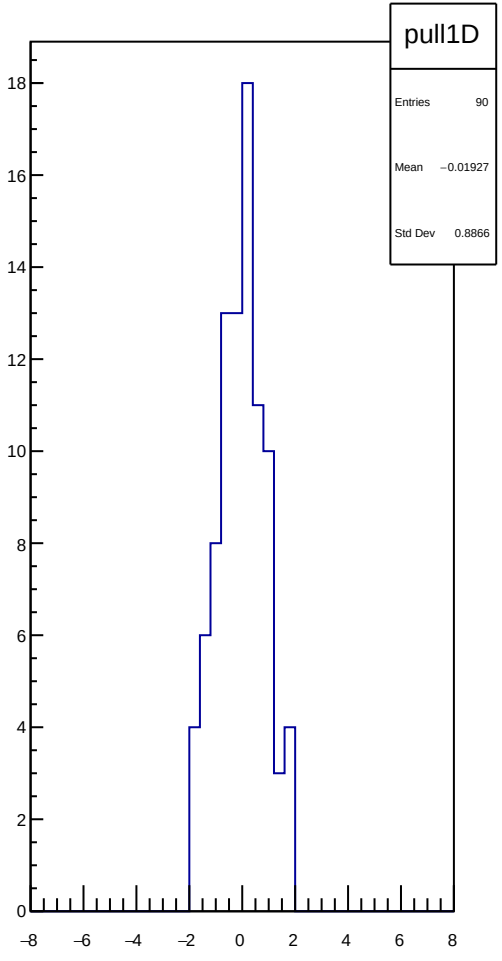

asym_sam_3726_avg_rms vs run
χ² / ndf 3150 / 89
p0 1659 ± 1.252
1850
1800
1750
1700
1650
1600
1550
1500
1450

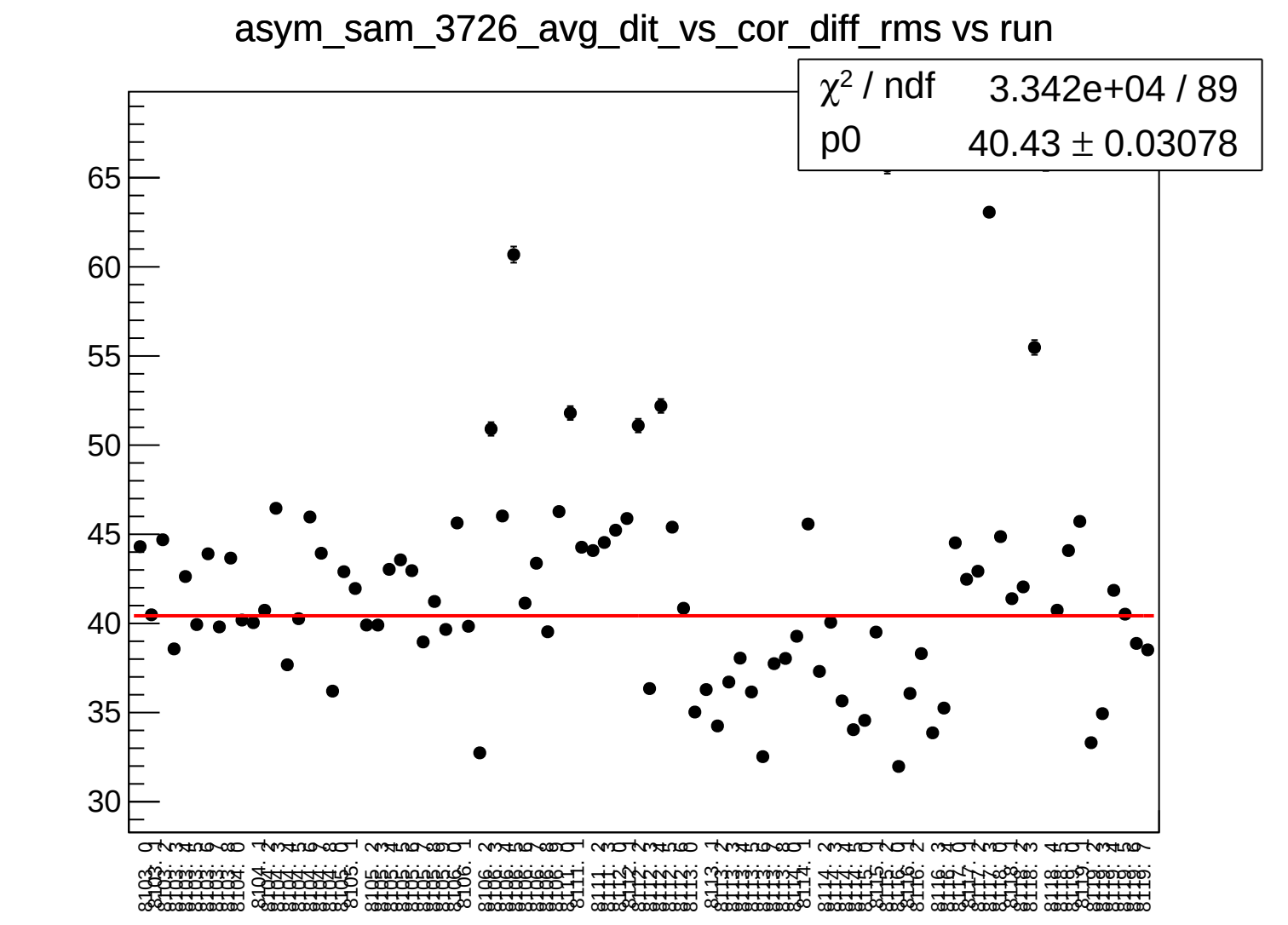

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.66 / 89
p0 −6.31e−14 ± 1.734e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean −573.2
Std Dev 0
2
1
0
−1
−2

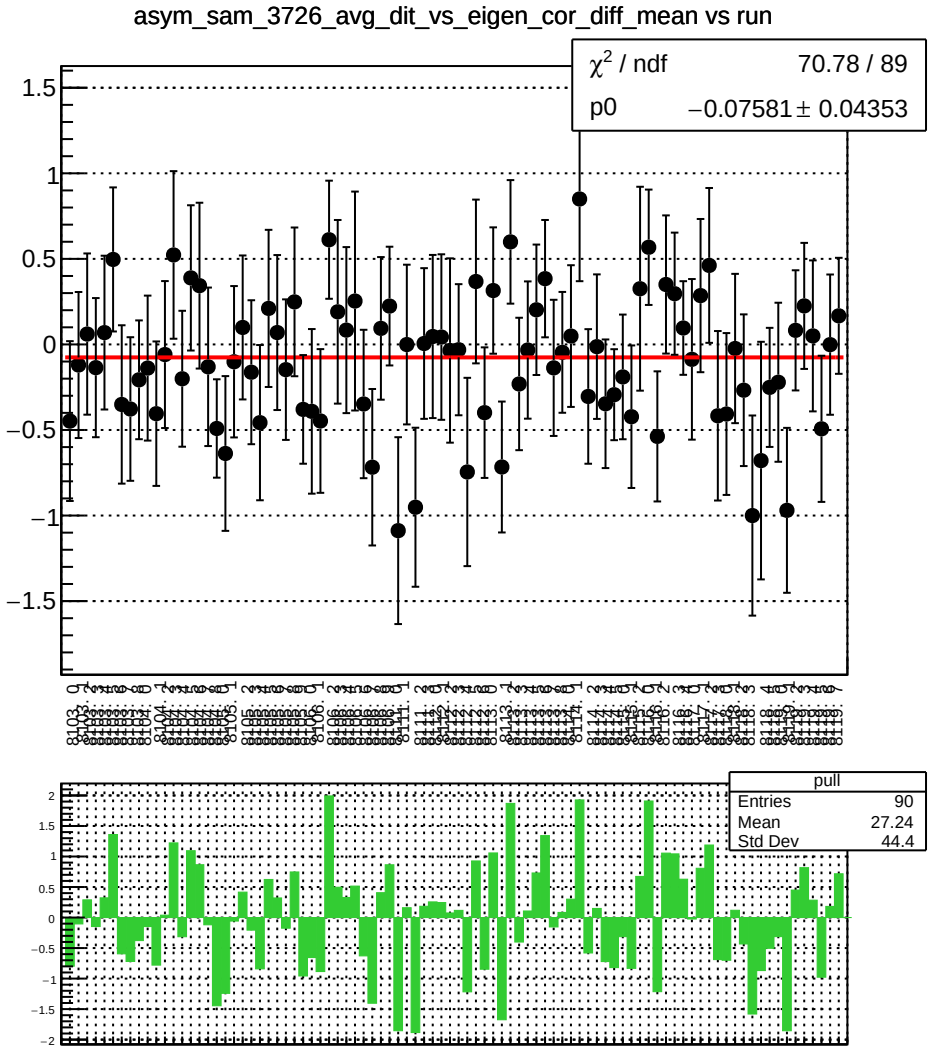

pull1D
Entries 90
Mean 0.003428
Std Dev 0.9408
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

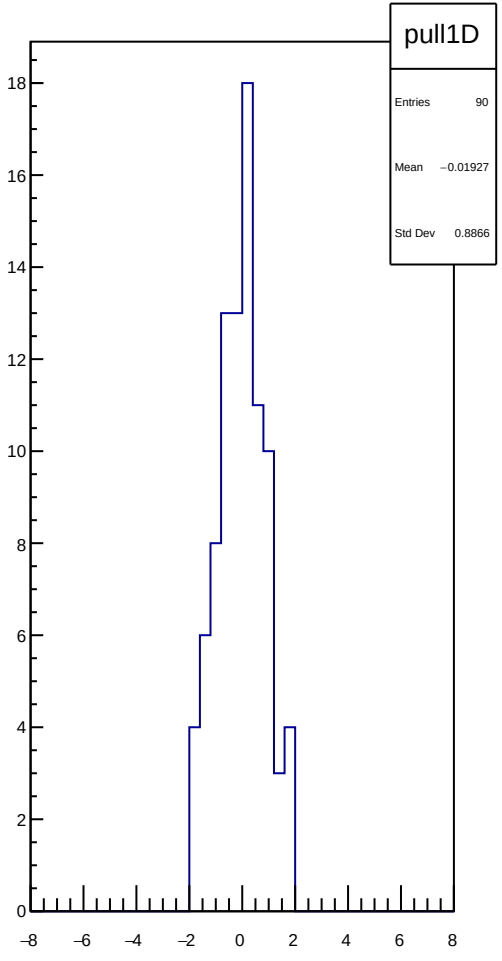

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.185e+05 / 89
p0 1.124e−10 ± 1.226e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

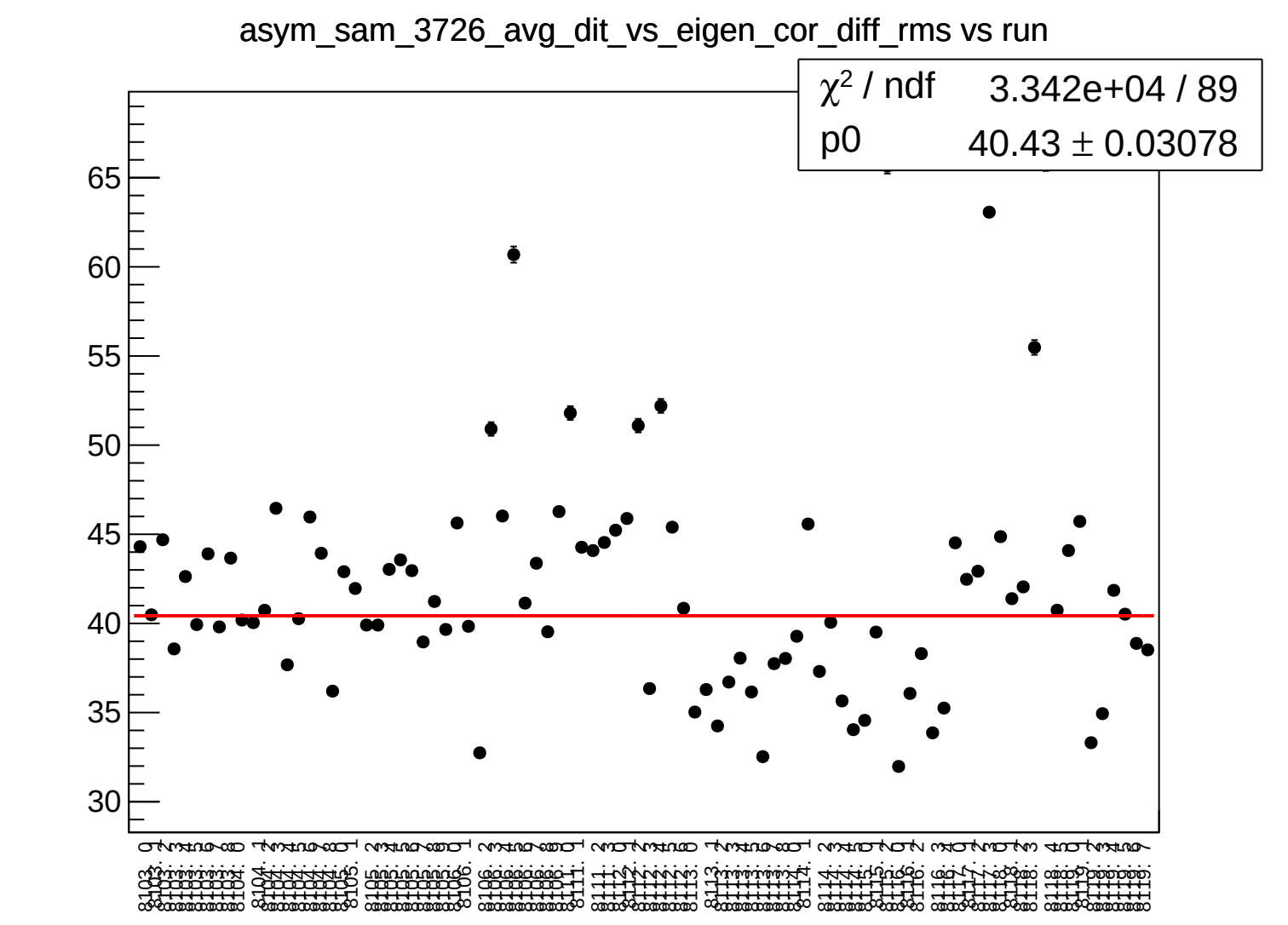

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.78 / 89
p0 −0.07581 ± 0.04353
pull
Entries 90
Mean 27.24
Std Dev 44.4

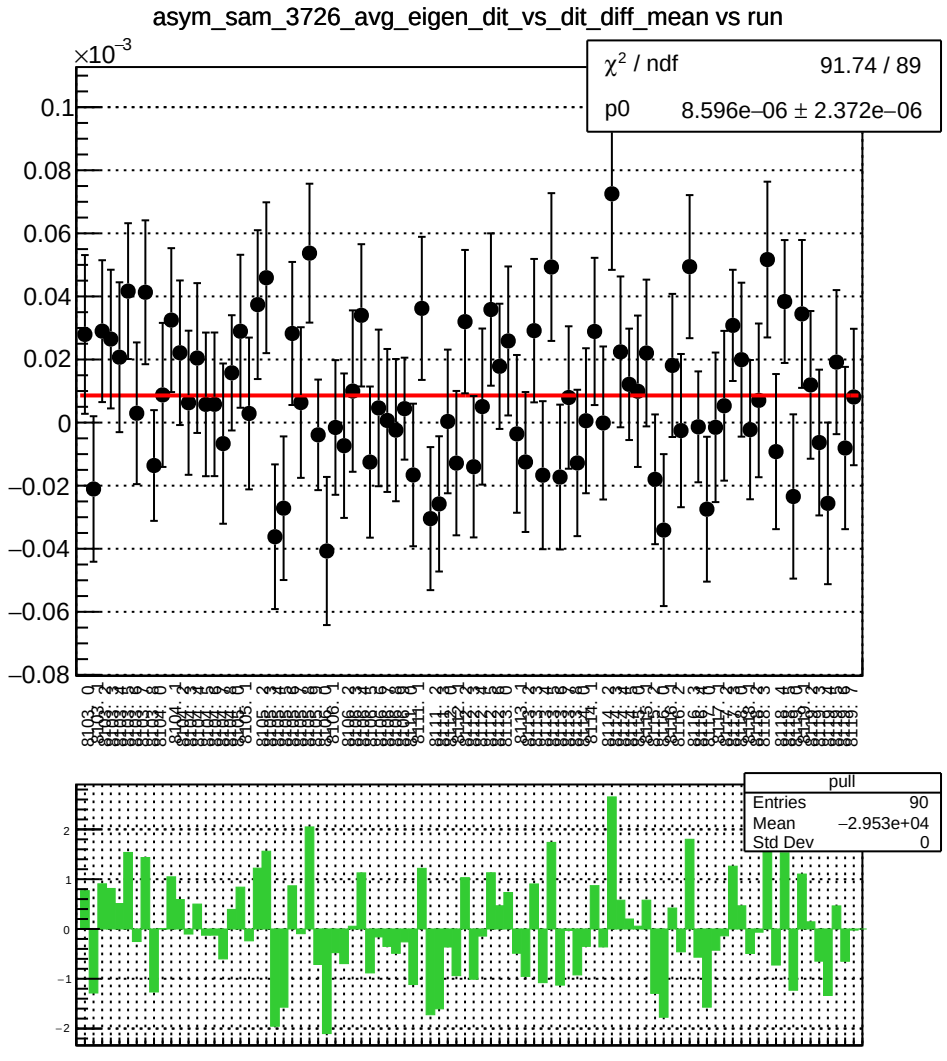

pull1D
Entries 90
Mean −0.01927
Std Dev 0.8866

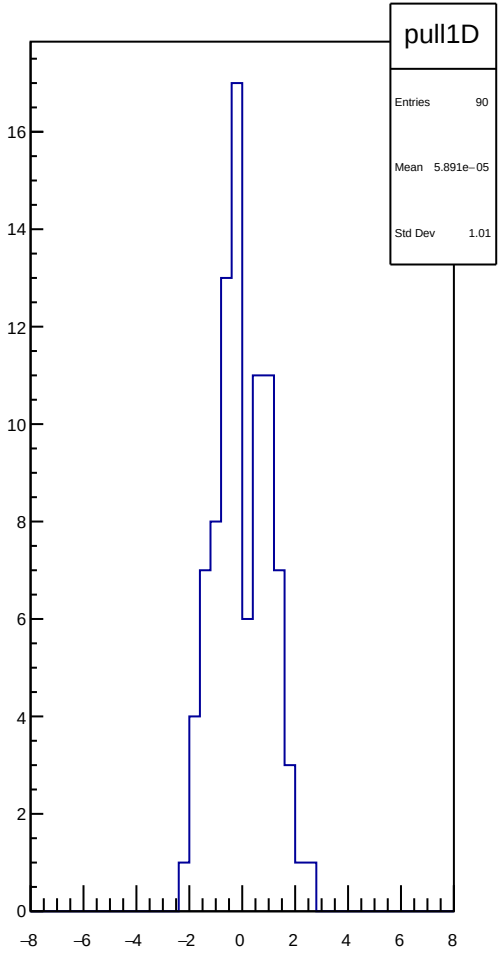

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.342e+04 / 89
p0 40.43 ± 0.03078
65
60
55
50
45
40
35
30

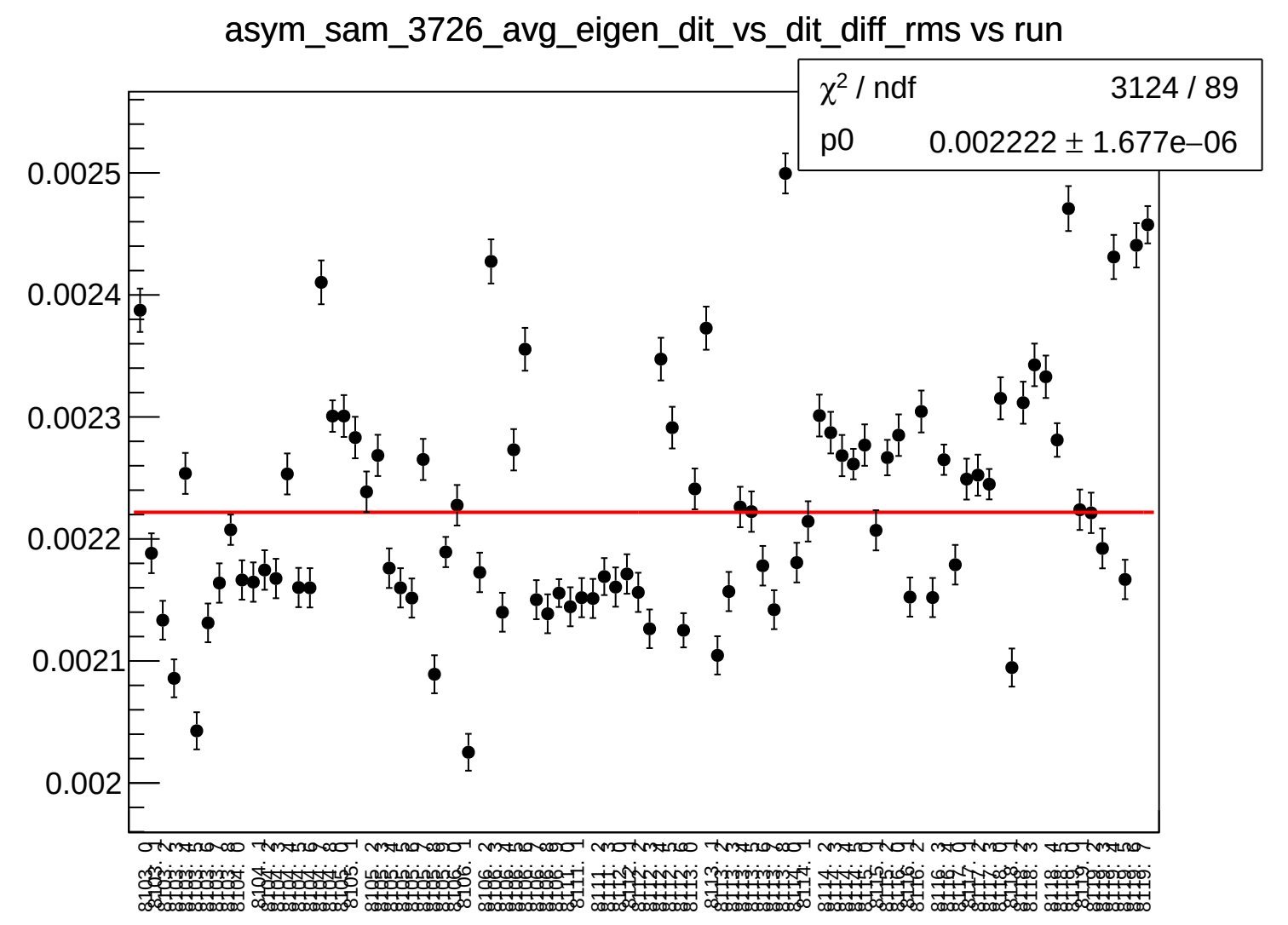

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.78 / 89
p0 −0.07581 ± 0.04353
pull
Entries 90
Mean 27.24
Std Dev 44.4

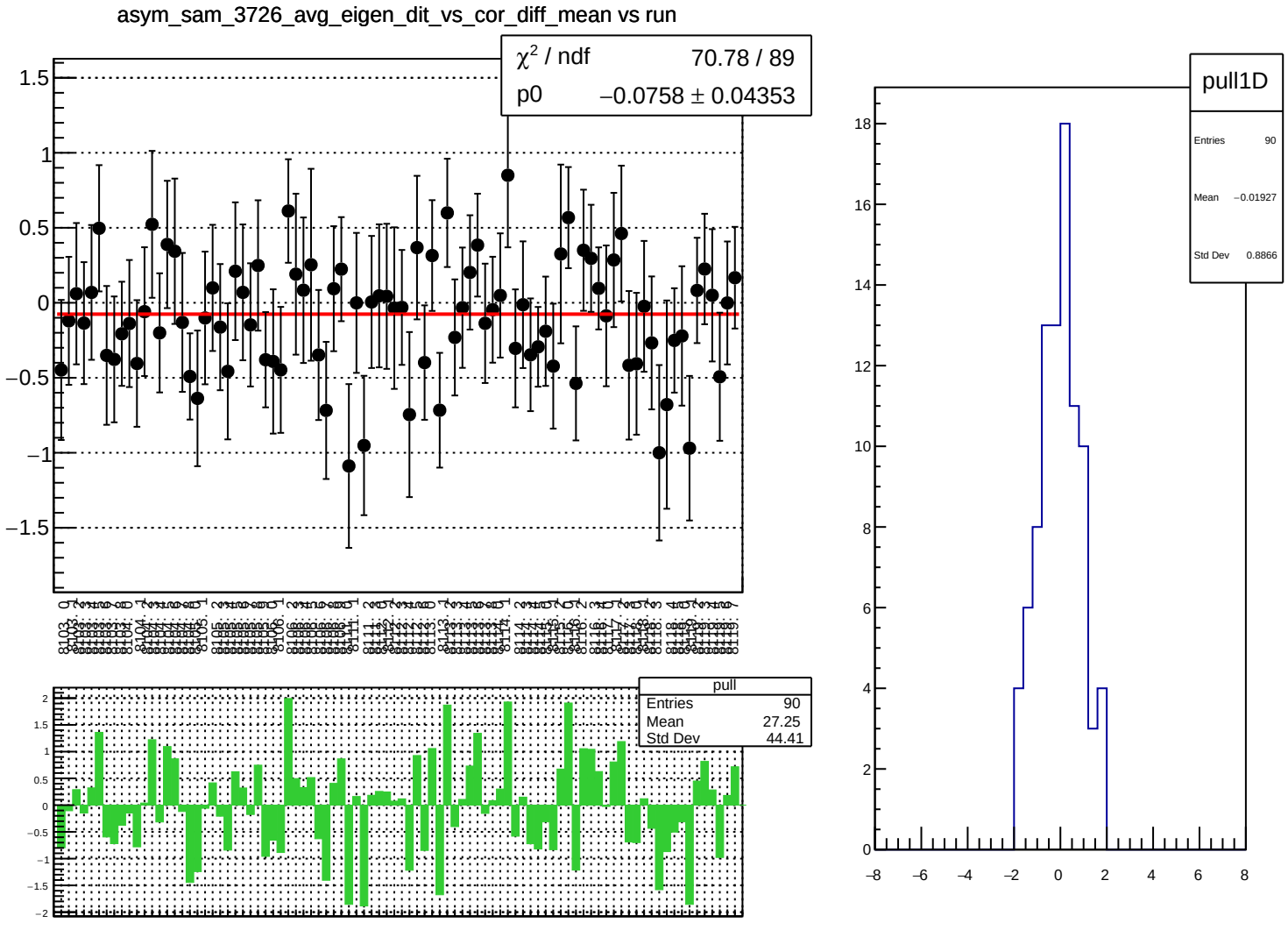

pull1D
Entries 90
Mean −0.01927
Std Dev 0.8866

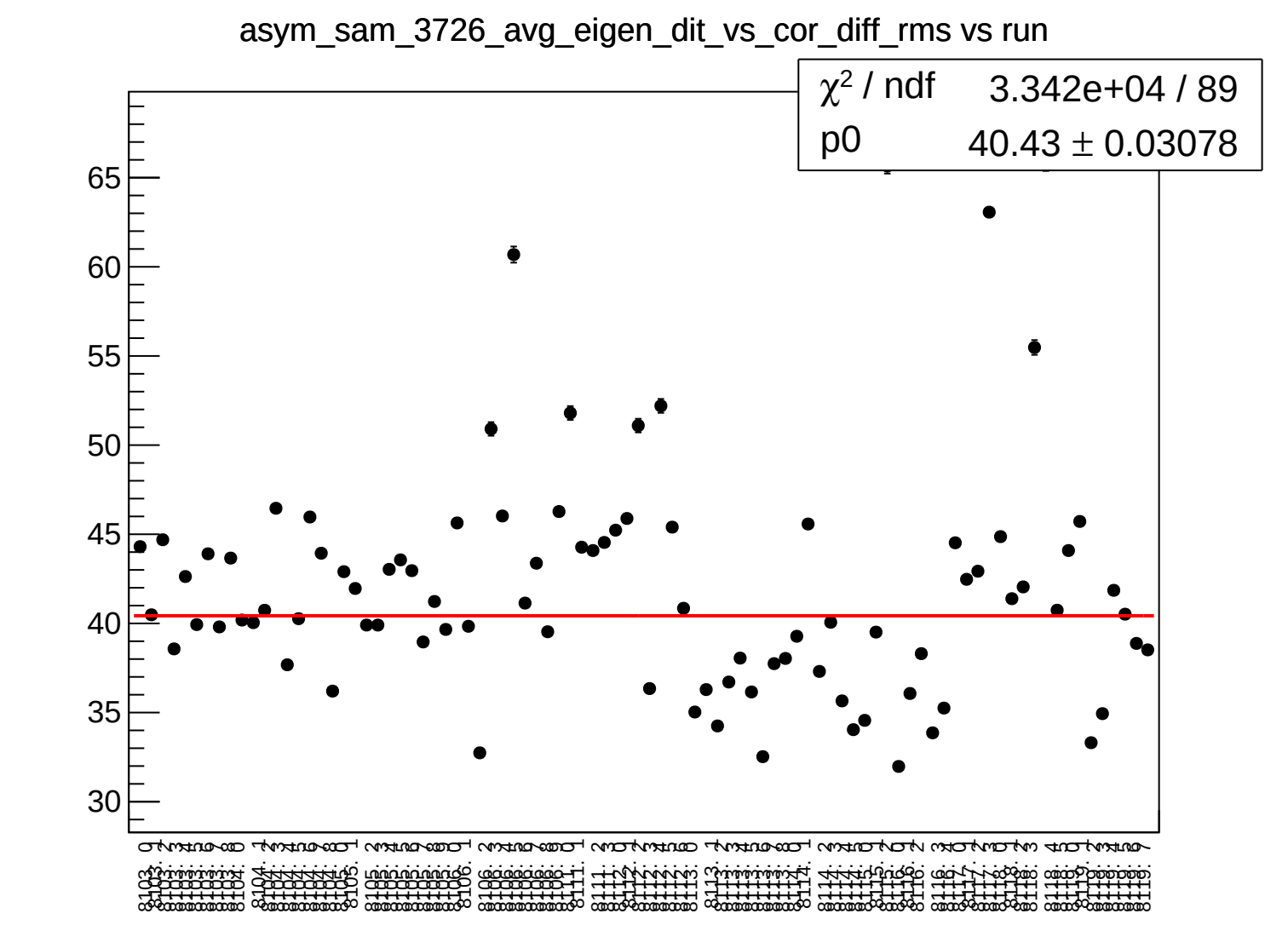

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.342e+04 / 89
p0 40.43 ± 0.03078
65
60
55
50
45
40
35
30

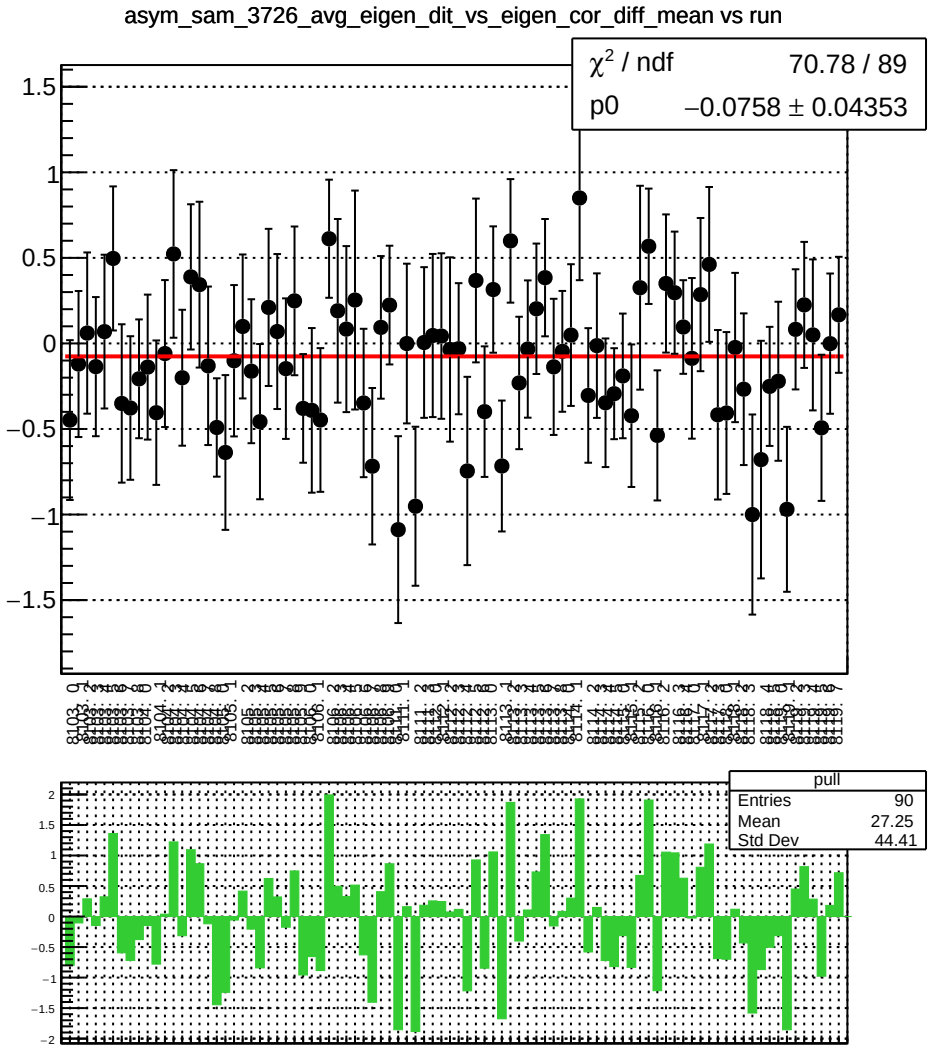

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.74 / 89
p0 8.596e−06 ± 2.372e−06
pull
Entries 90
Mean −2.953e+04
Std Dev 0

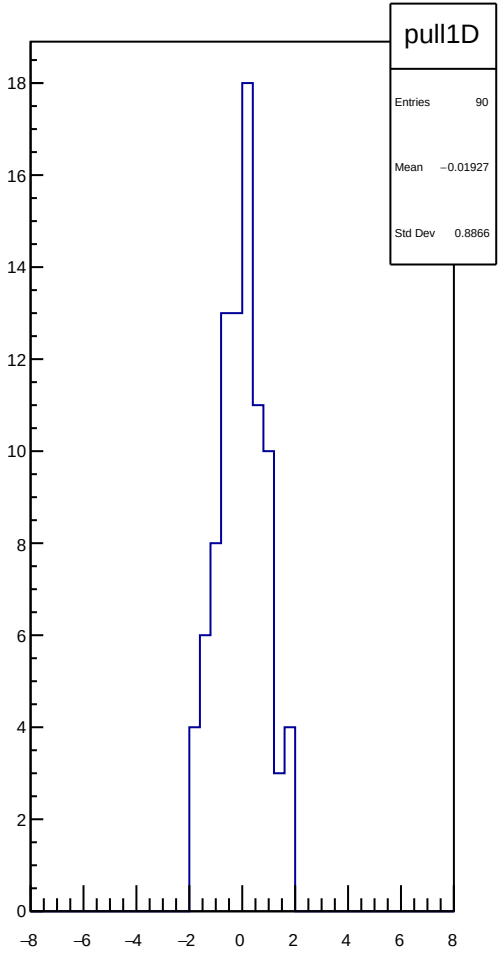

pull1D
Entries 90
Mean 5.891e−05
Std Dev 1.01

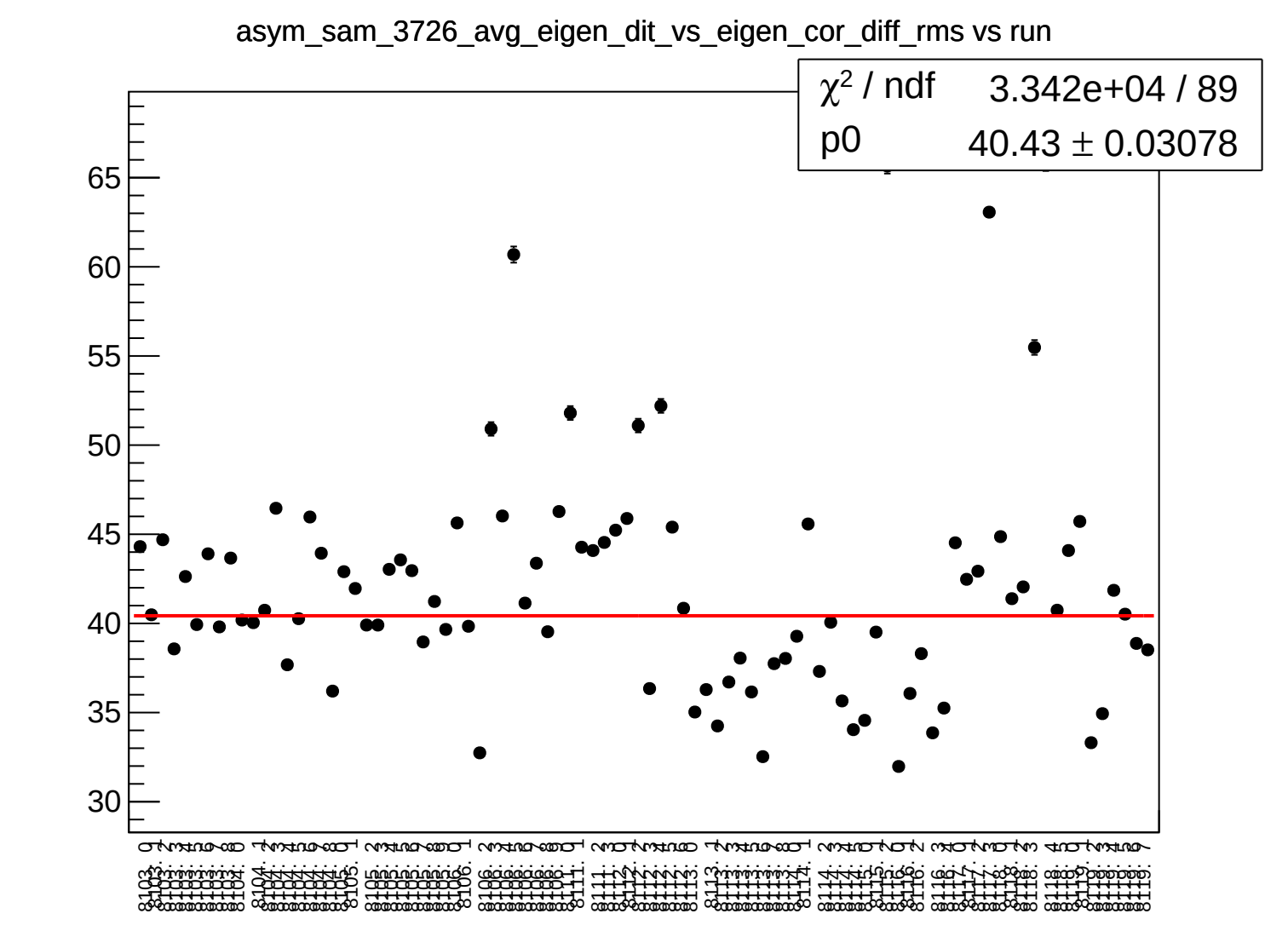

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3124 / 89
p0 0.002222 ± 1.677e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

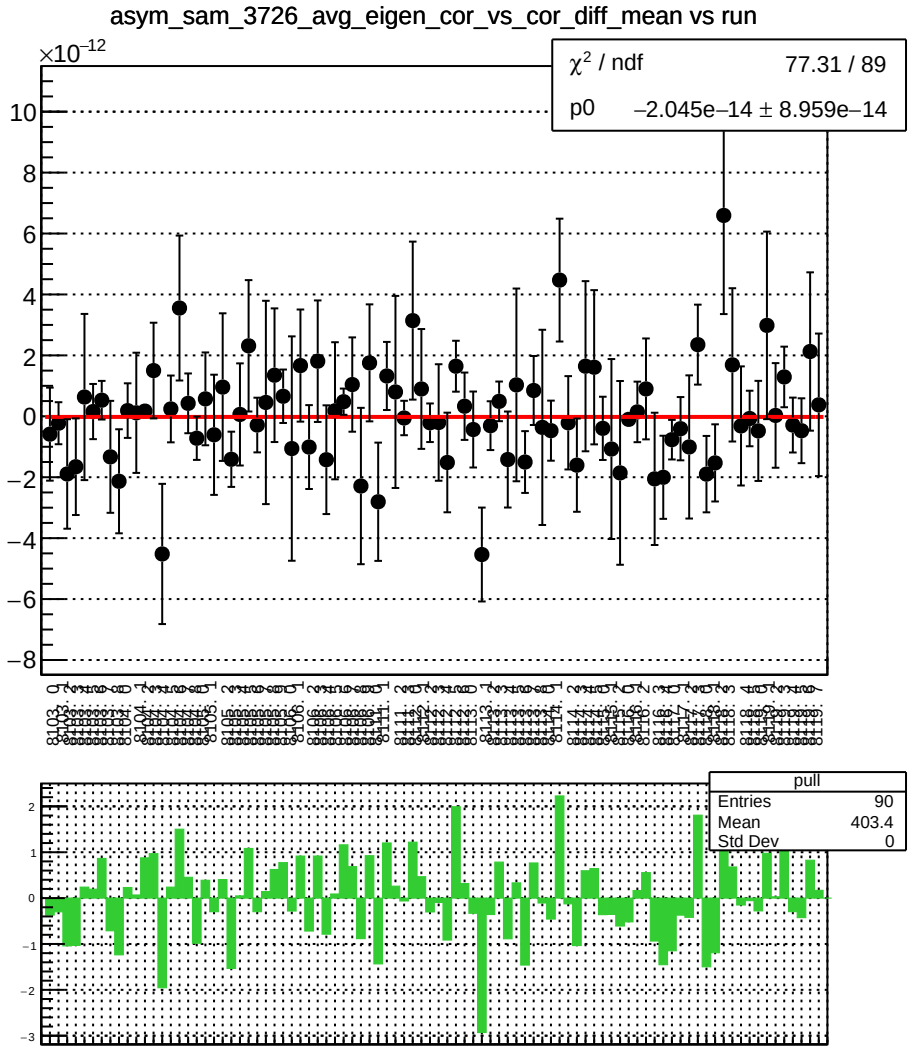

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.78 / 89
p0 −0.0758 ± 0.04353
pull
Entries 90
Mean 27.25
Std Dev 44.41
pull1D
Entries 90
Mean −0.01927
Std Dev 0.8866

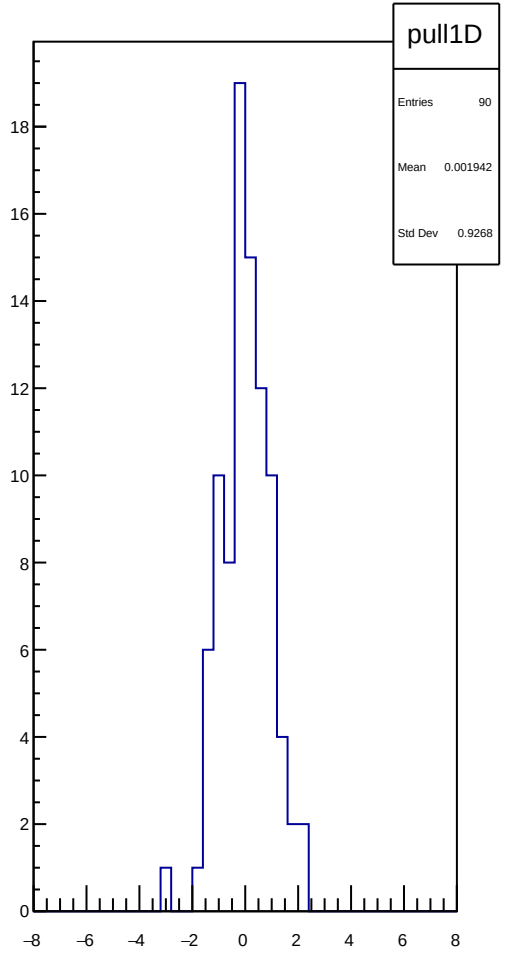

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.342e+04 / 89
p0 40.43 ± 0.03078
65
60
55
50
45
40
35
30

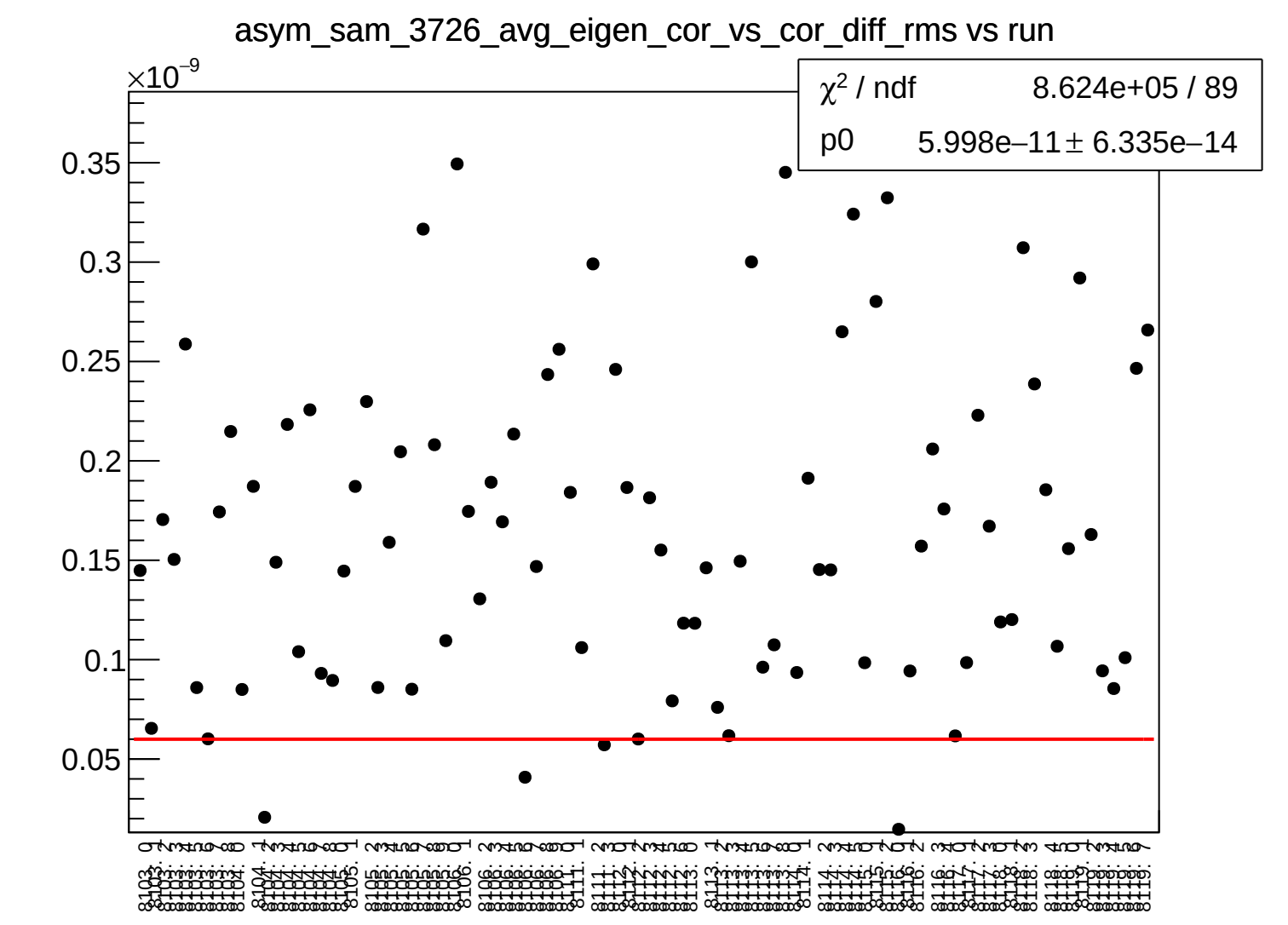

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.78 / 89
p0 −0.0758 ± 0.04353
pull
Entries 90
Mean 27.25
Std Dev 44.41

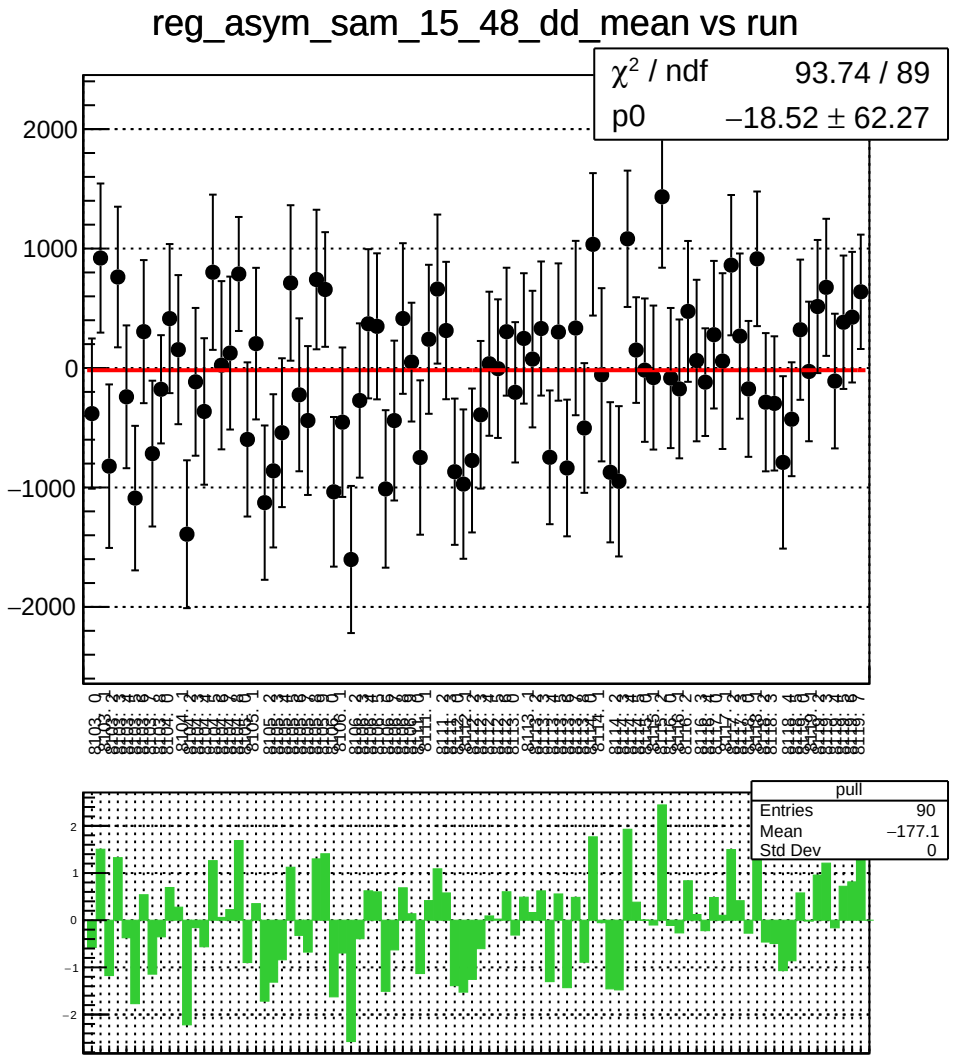

pull1D
Entries 90
Mean −0.01927
Std Dev 0.8866

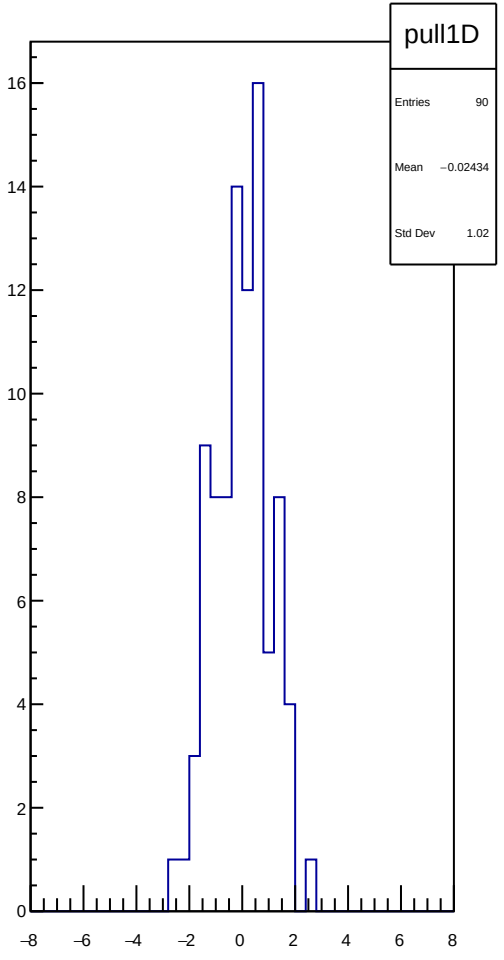

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.342e+04 / 89
p0 40.43 ± 0.03078
65
60
55
50
45
40
35
30


asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.31 / 89
p0 −2.045e−14 ± 8.959e−14
pull
Entries 90
Mean 403.4
Std Dev 0

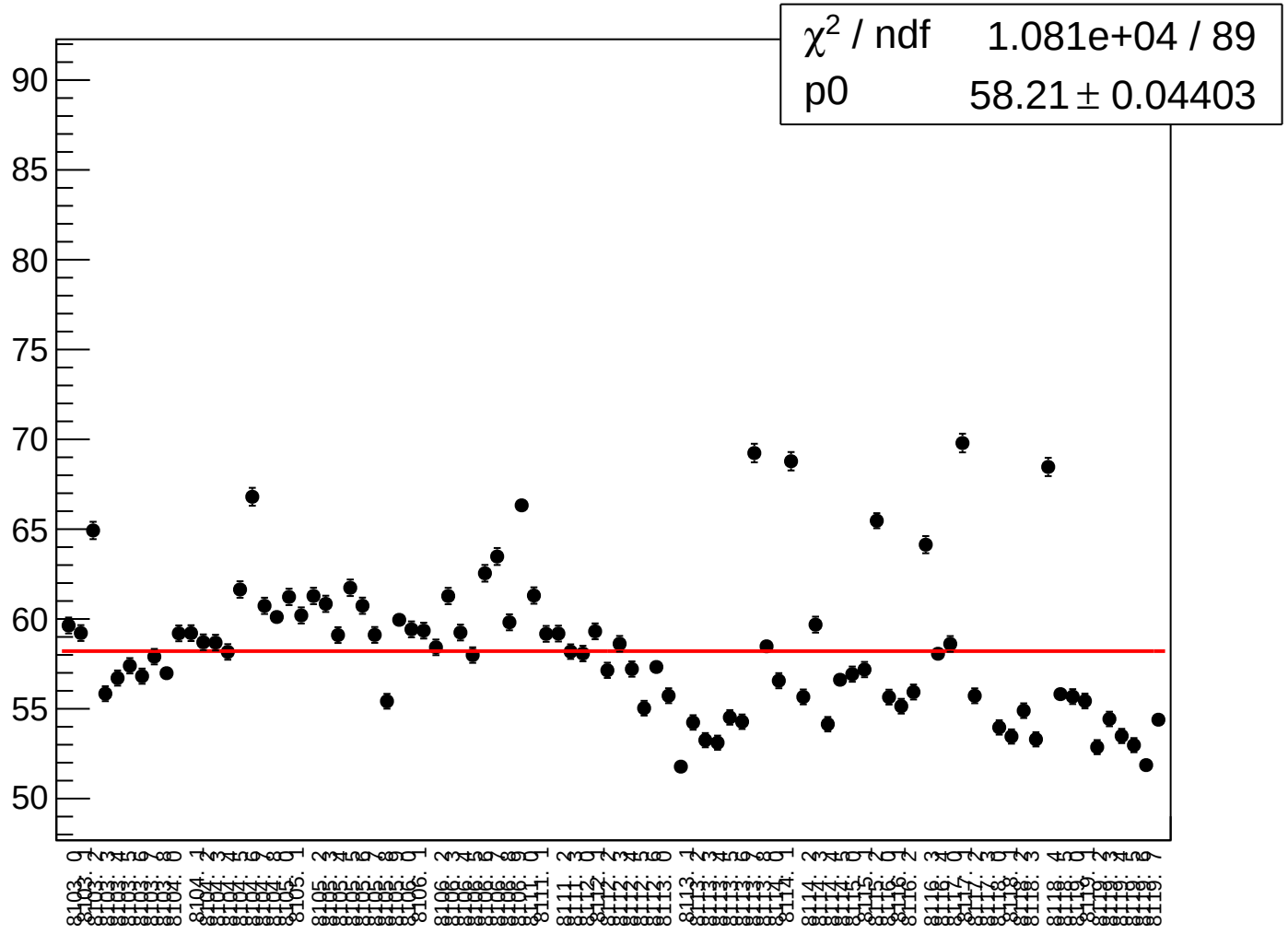

pull1D
Entries 90
Mean 0.001942
Std Dev 0.9268

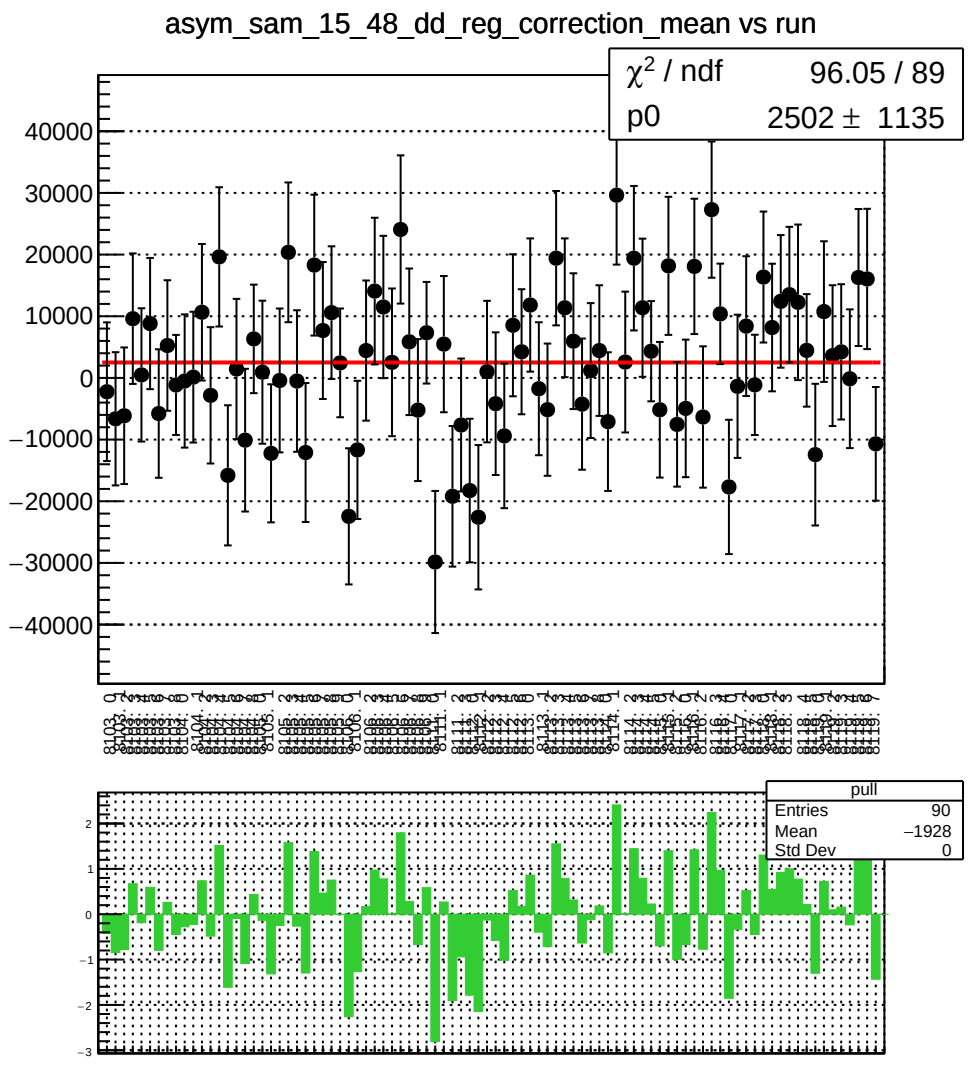

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.624e+05 / 89
p0 5.998e−11 ± 6.335e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

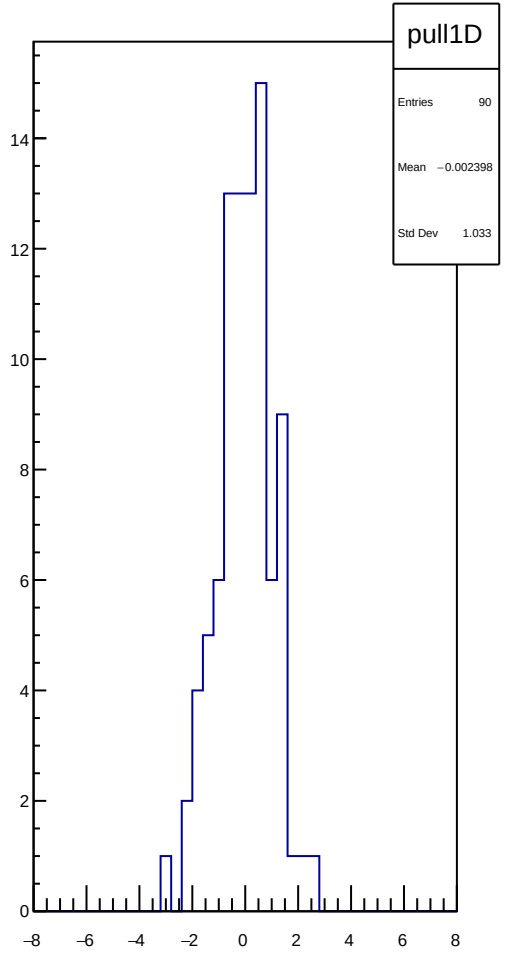

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 93.74 / 89
p0 −18.52 ± 62.27
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −177.1
Std Dev 0
2
1
0
−1
−2

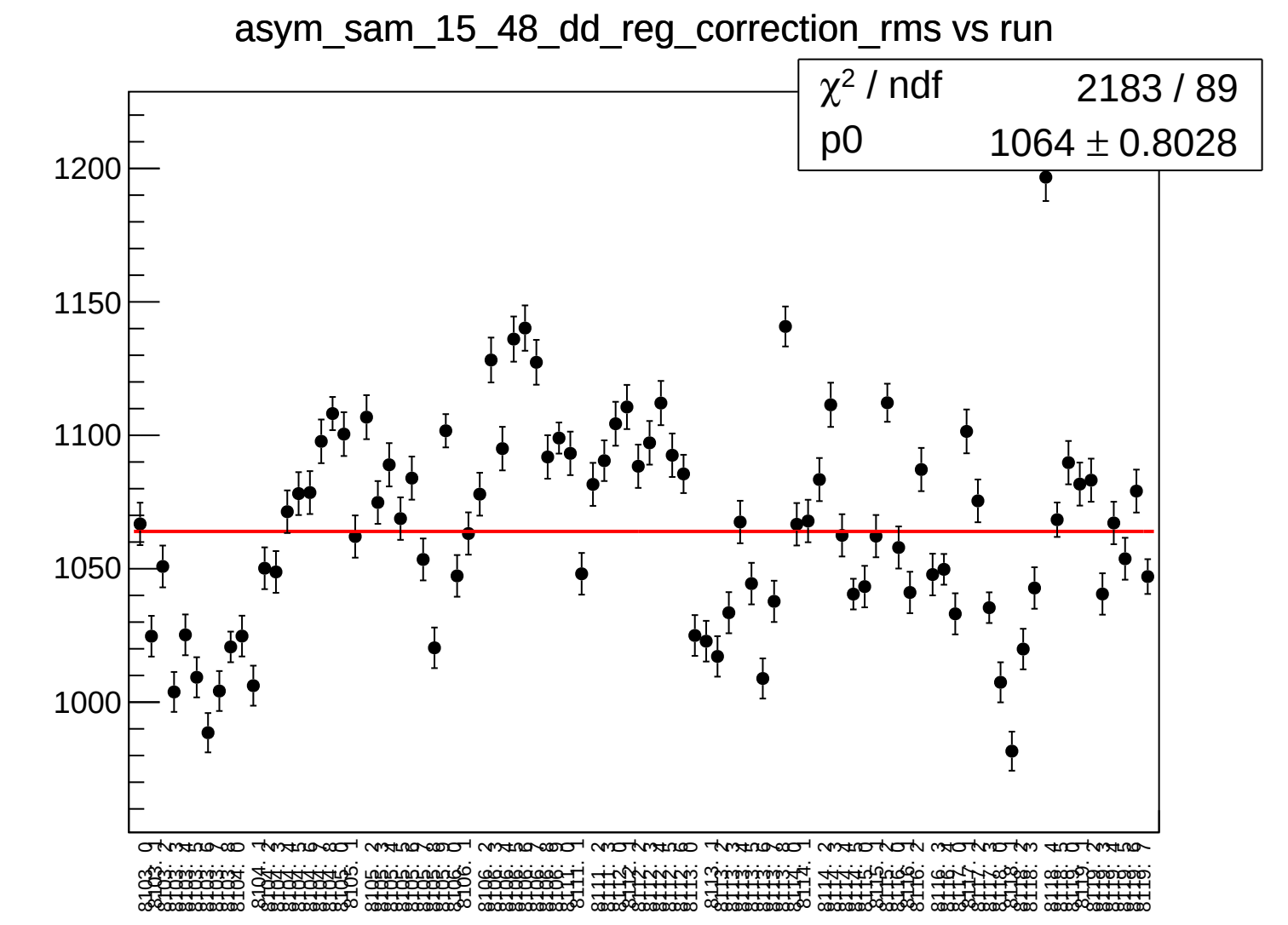

pull1D
Entries 90
Mean −0.02434
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

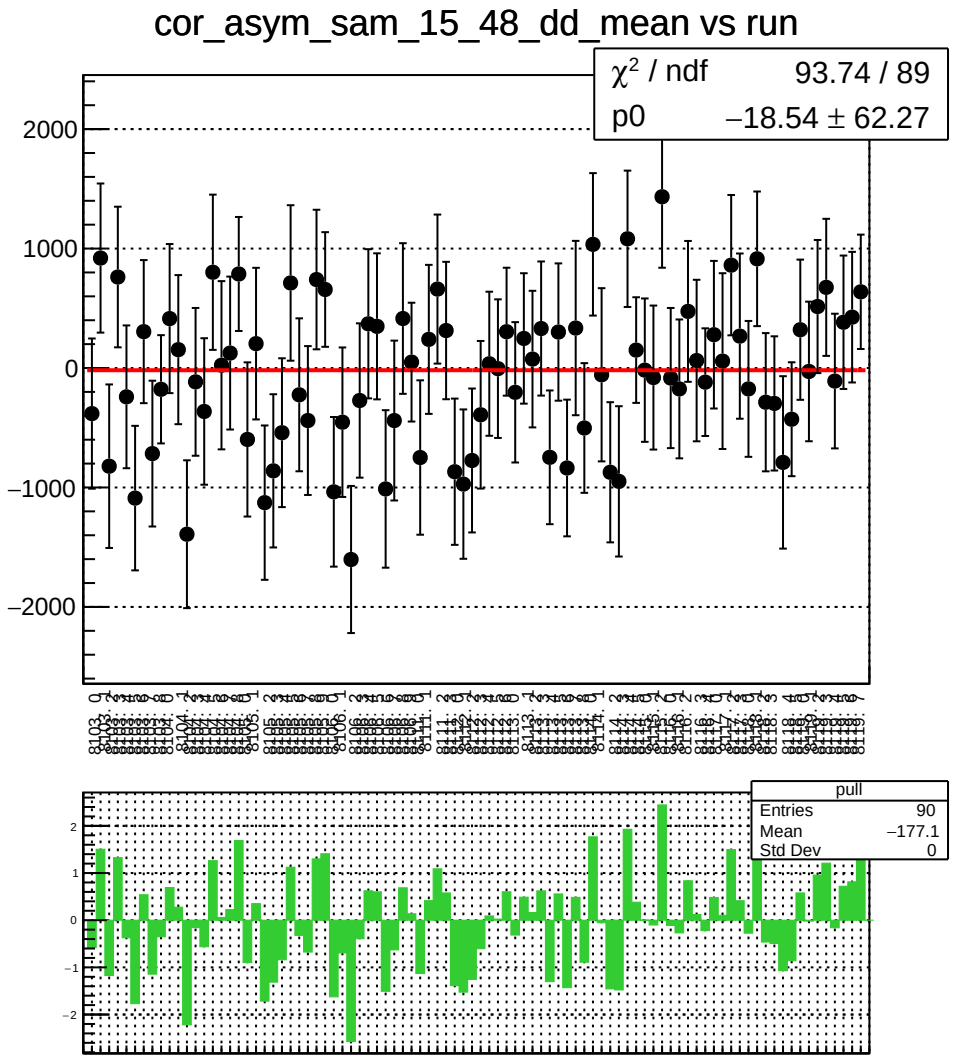
reg_asym_sam_15_48_dd_rms vs run

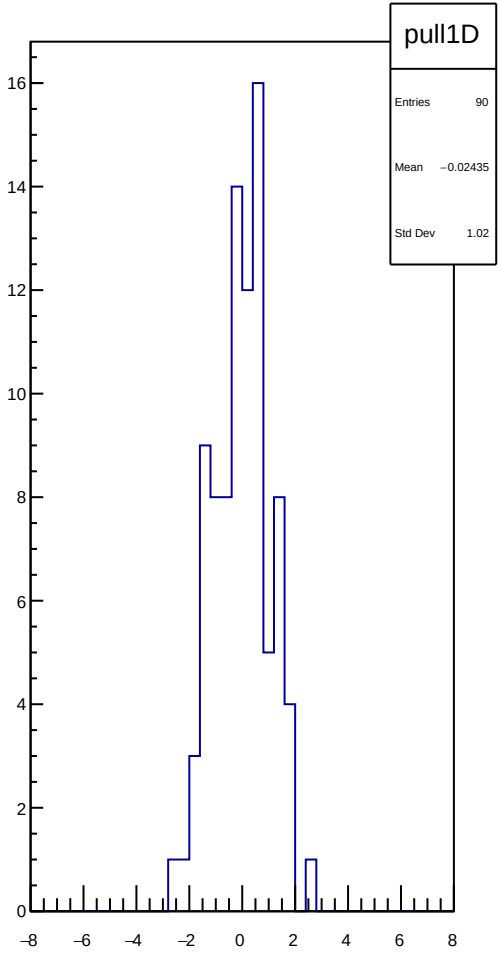


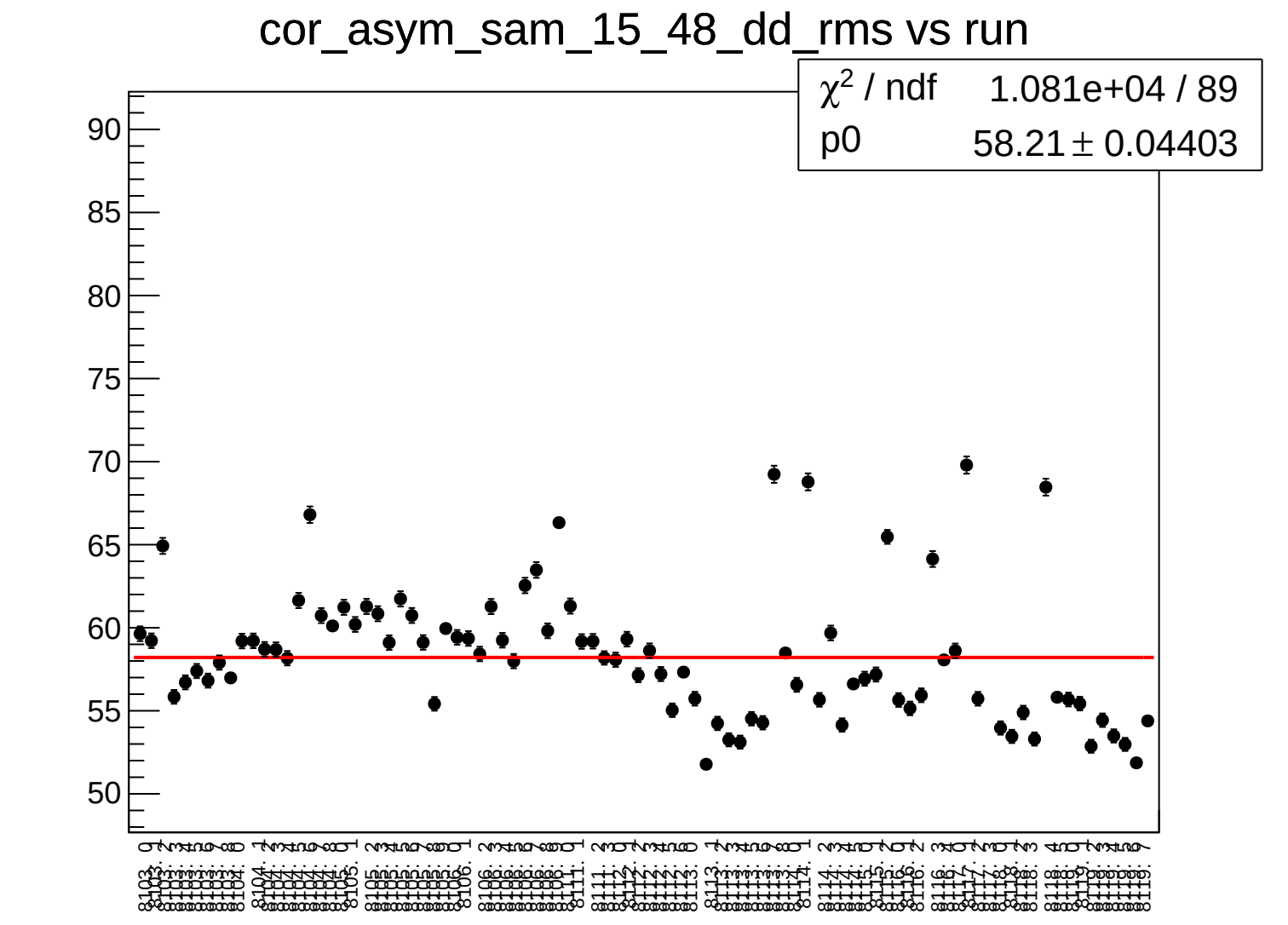

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 96.05 / 89
p0 2502 ± 1135
pull
Entries 90
Mean −1928
Std Dev 0

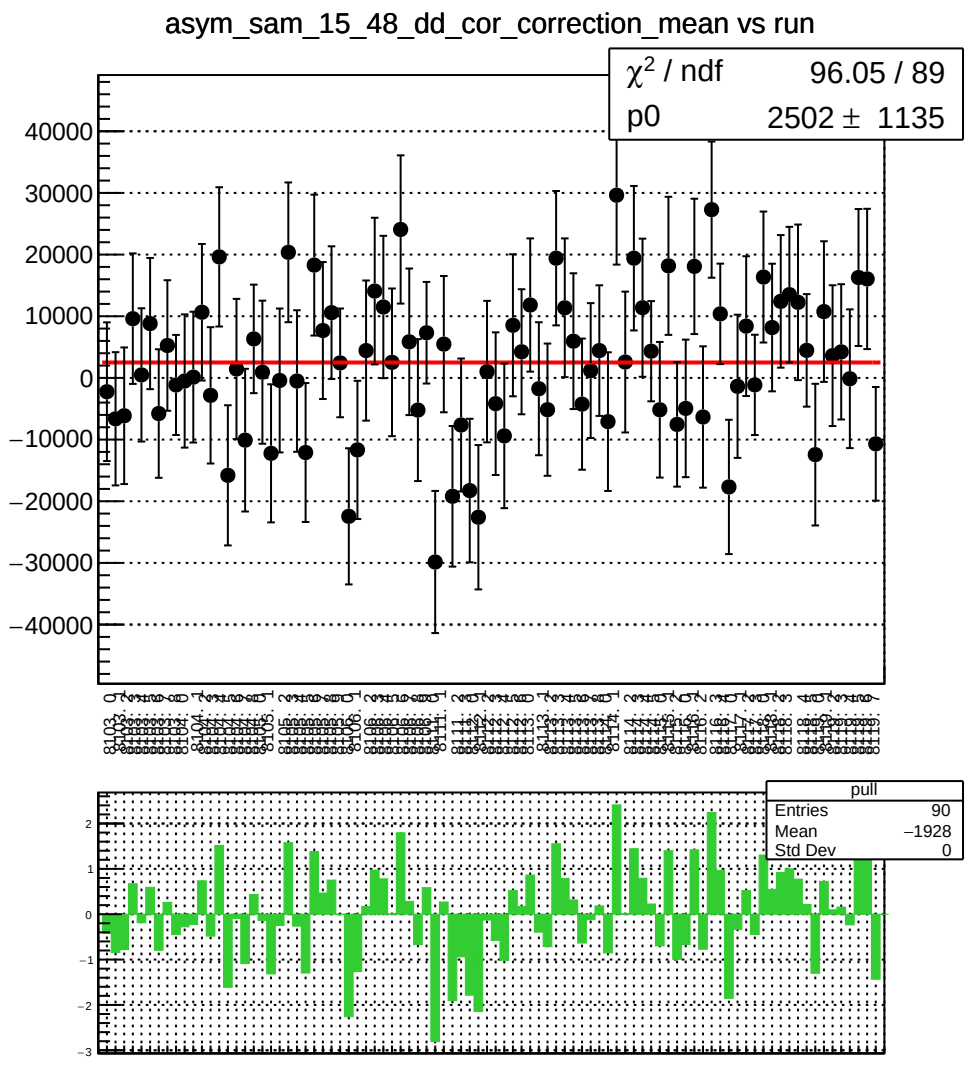

pull1D
Entries 90
Mean −0.002398
Std Dev 1.033

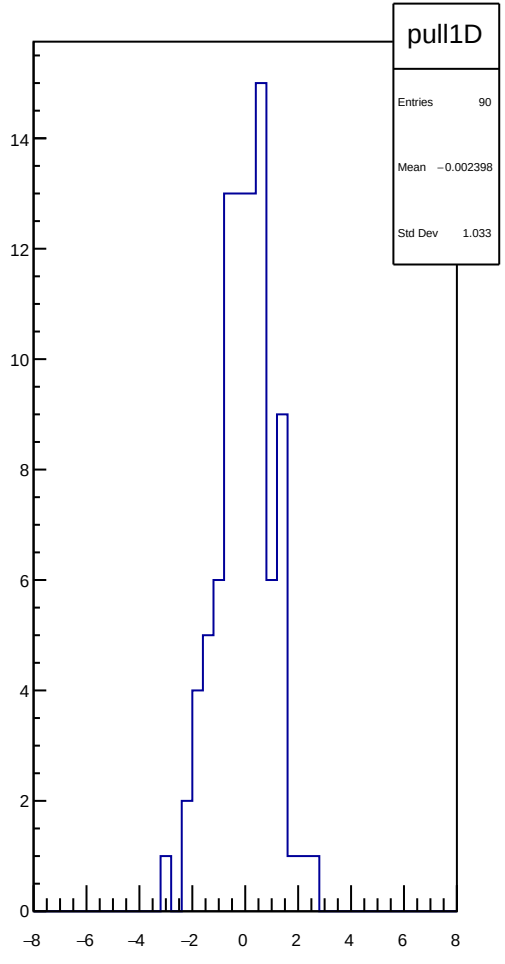

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2183 / 89
p0 1064 ± 0.8028
1200
1150
1100
1050
1000

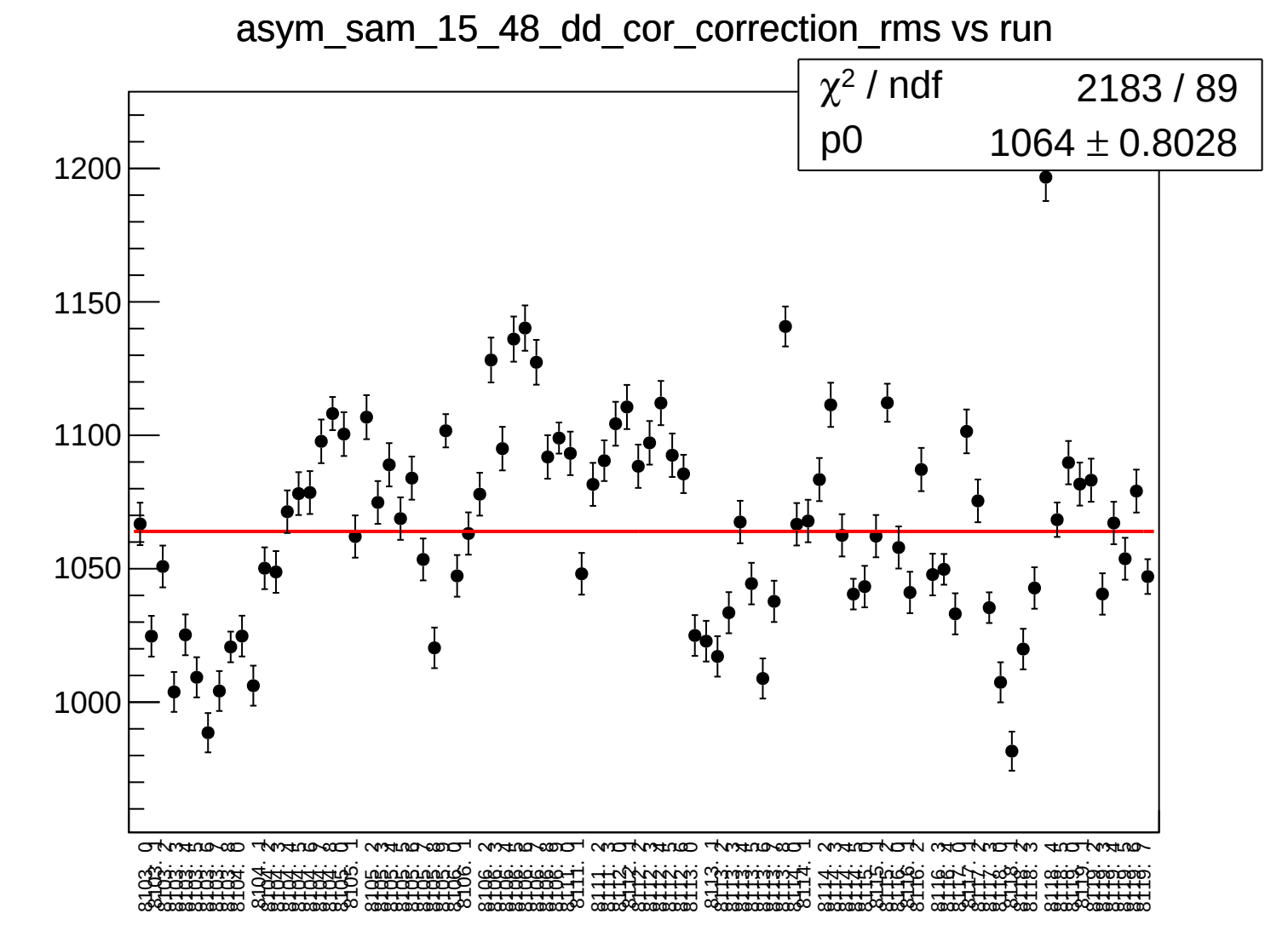

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 93.74 / 89
p0 −18.54 ± 62.27
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −177.1
Std Dev 0
2
1
0
−1
−2

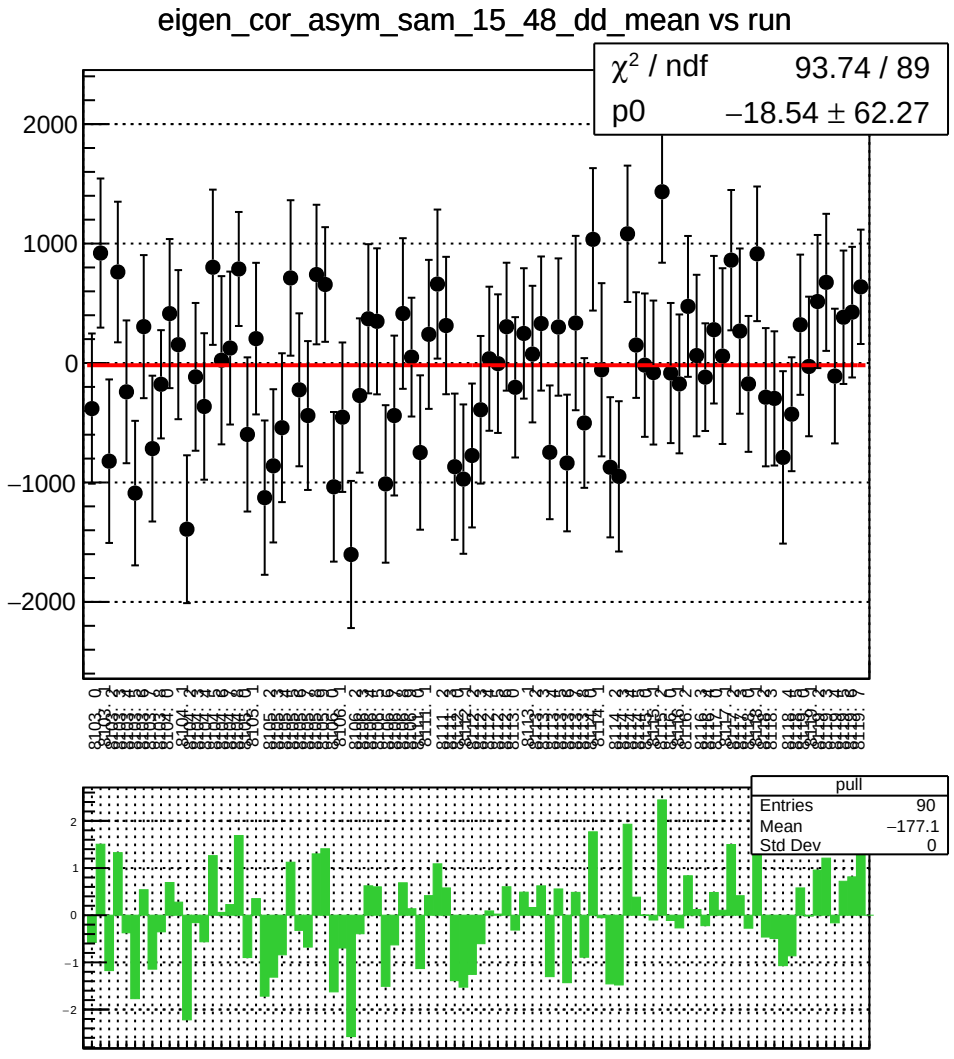

pull1D
Entries 90
Mean −0.02435
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

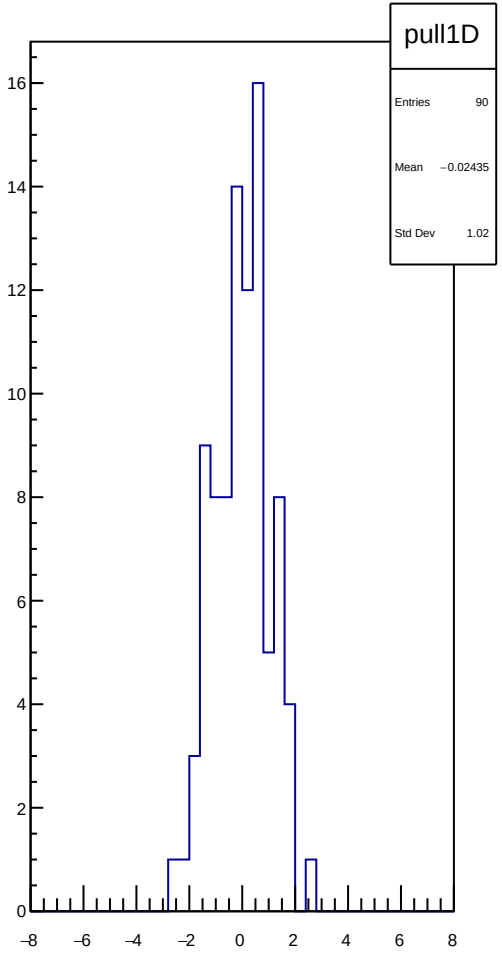

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.081e+04 / 89
p0 58.21 ± 0.04403
90
85
80
75
70
65
60
55
50

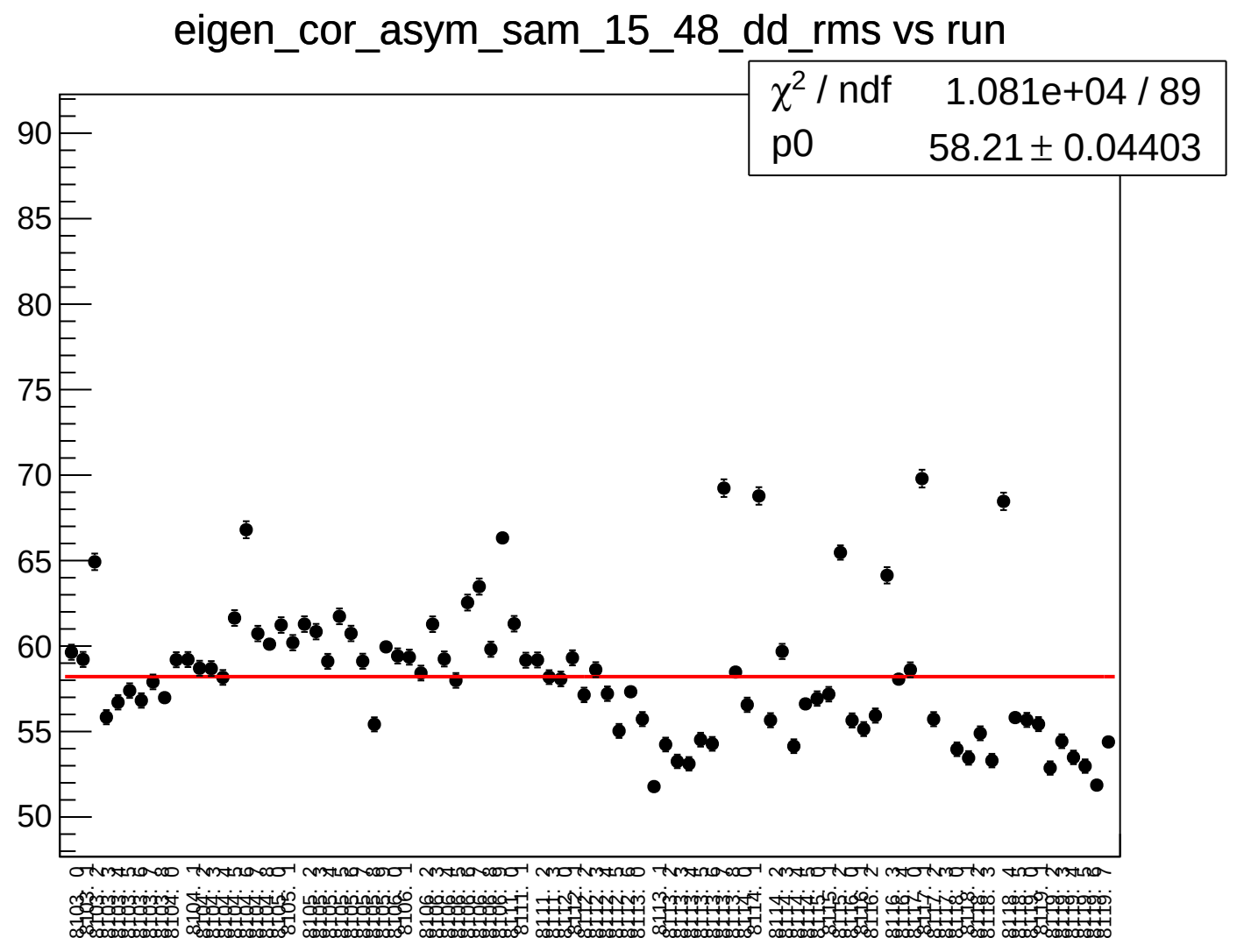

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 96.05 / 89
p0 2502 ± 1135
pull
Entries 90
Mean −1928
Std Dev 0

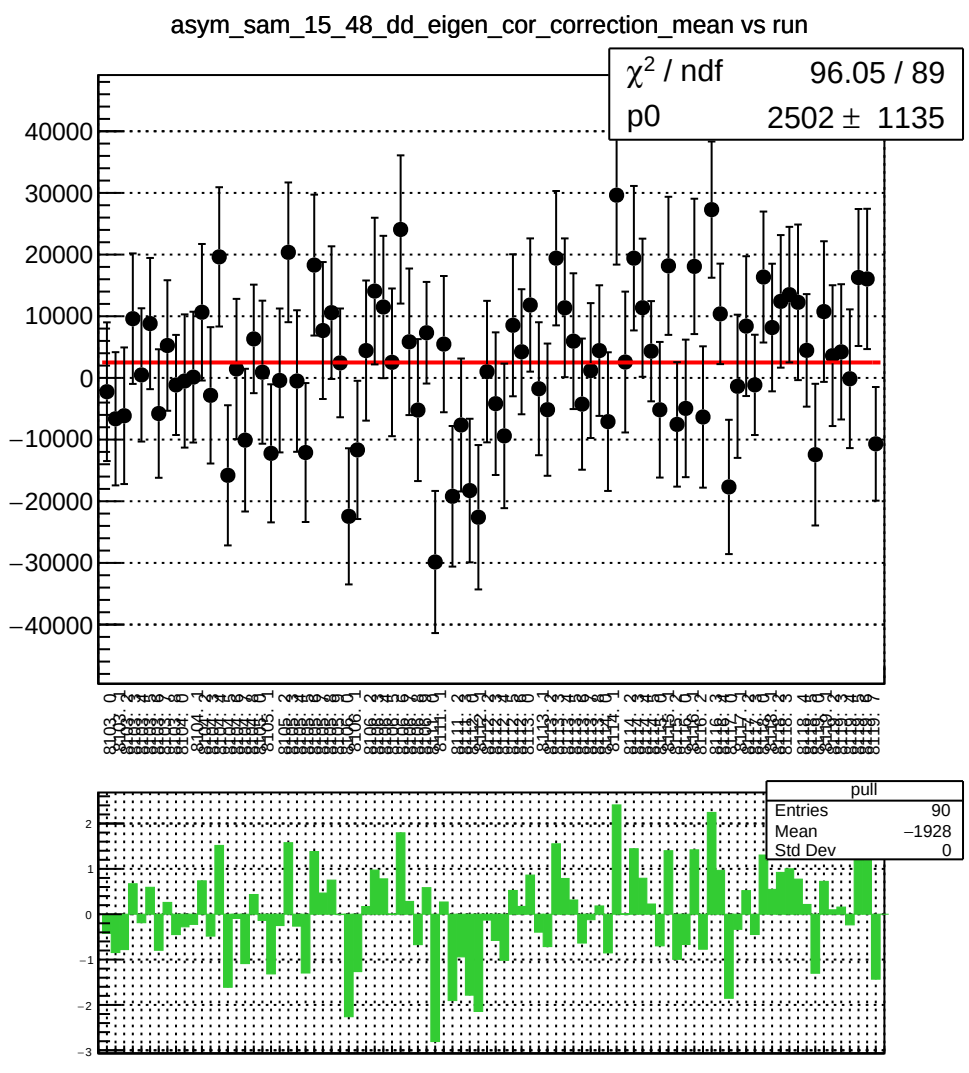

pull1D
Entries 90
Mean −0.002398
Std Dev 1.033

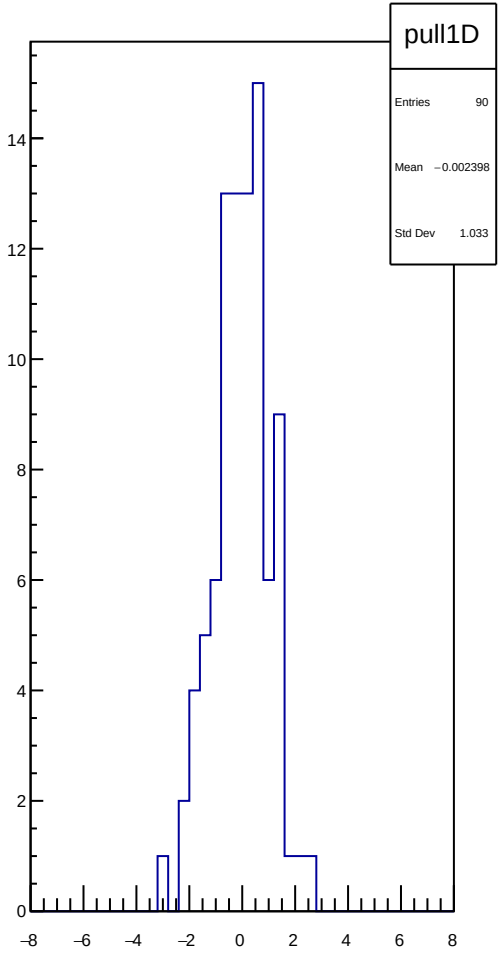

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2183 / 89
p0 1064 ± 0.8028
1200
1150
1100
1050
1000

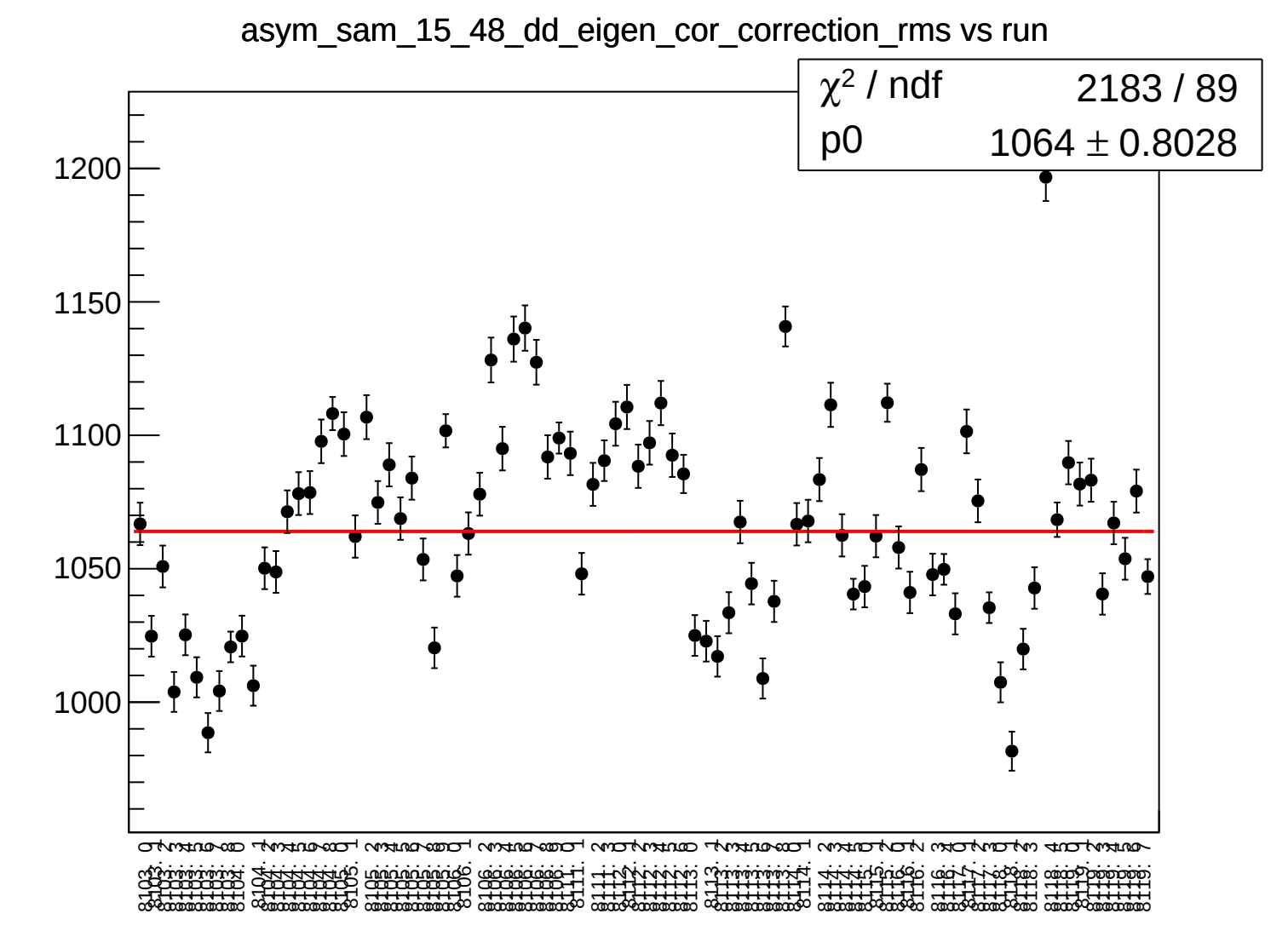

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 93.74 / 89
p0 −18.54 ± 62.27
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −177.1
Std Dev 0
2
1
0
−1
−2

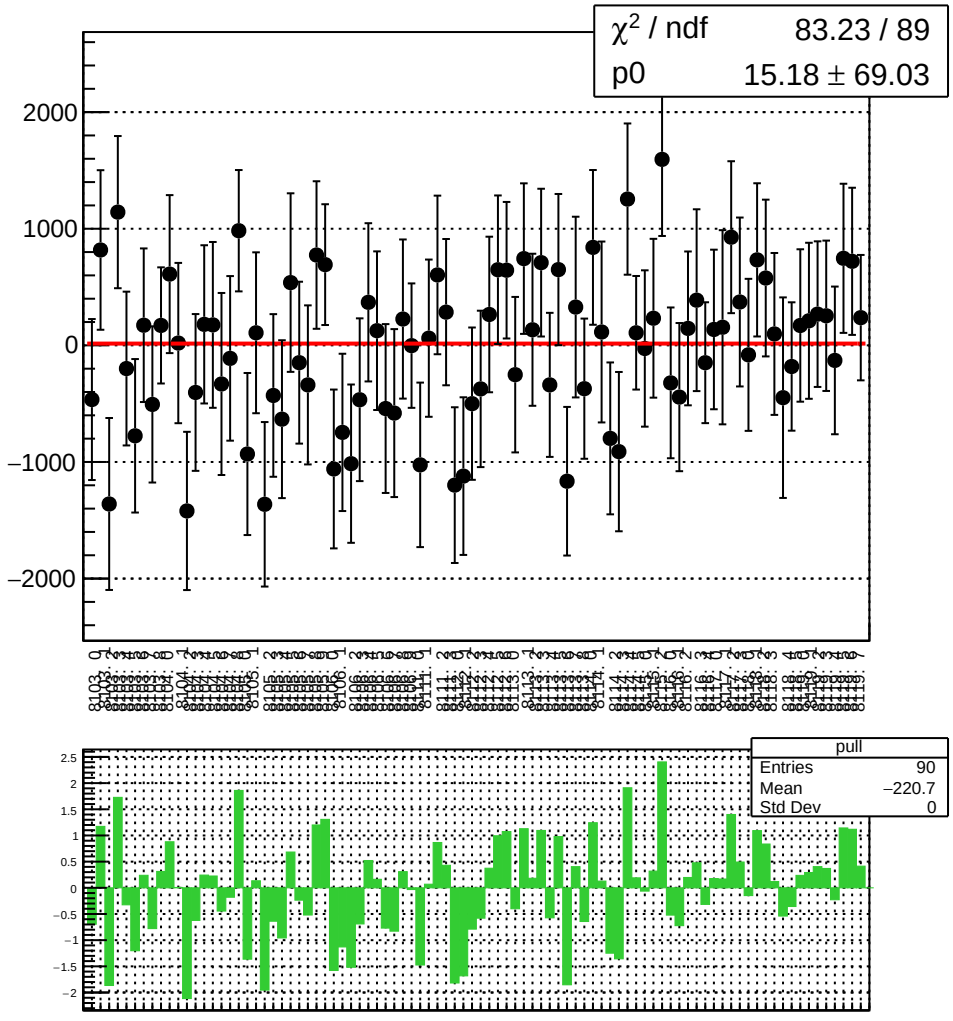

pull1D
Entries 90
Mean −0.02435
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

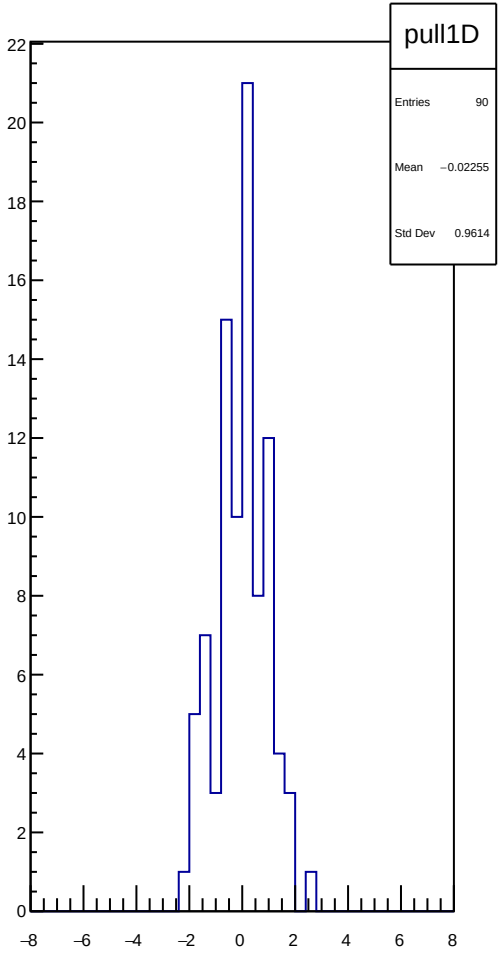

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.081e+04 / 89
p0 58.21 ± 0.04403
90
85
80
75
70
65
60
55
50

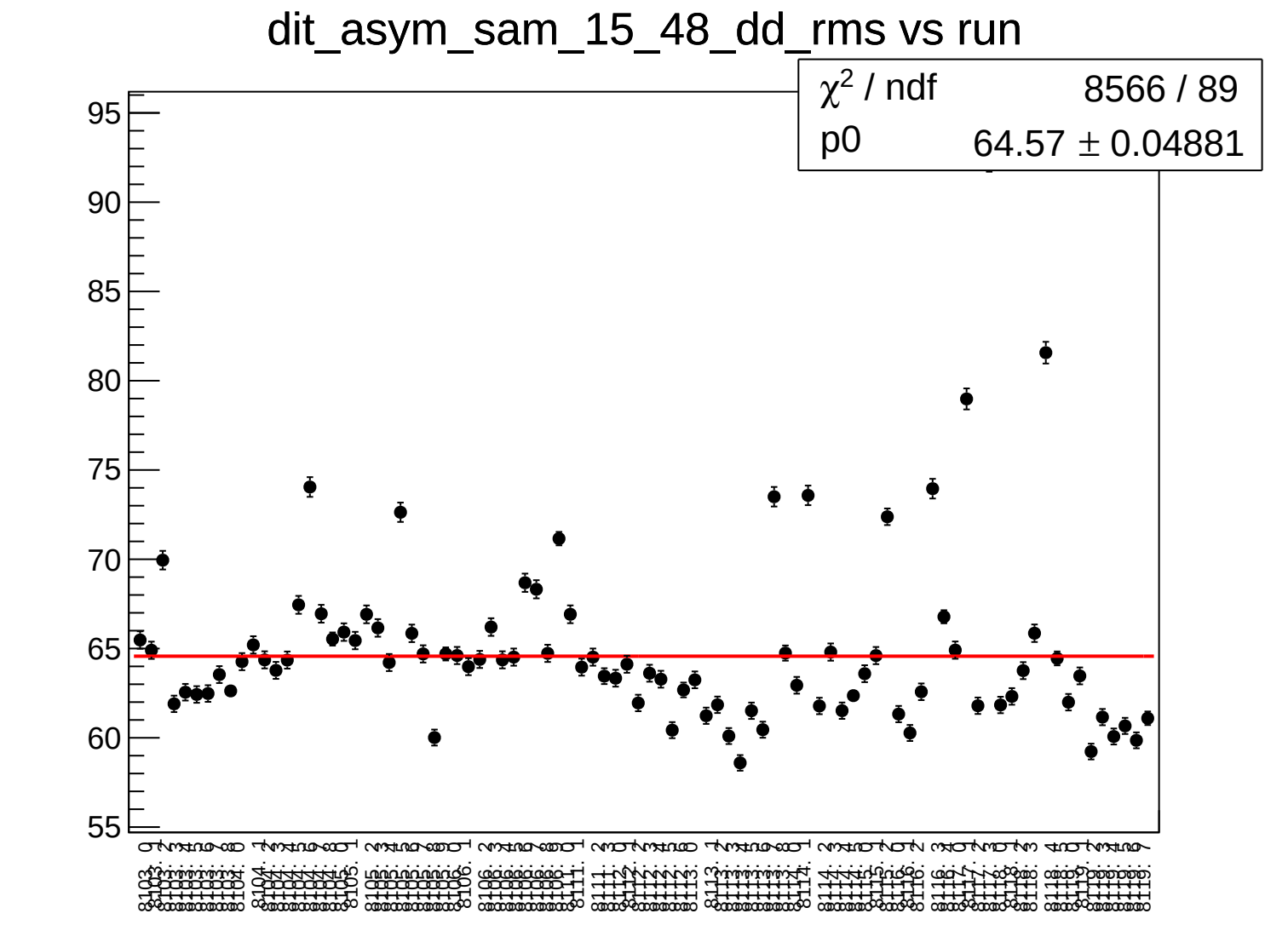

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.05 / 89
p0 2502 ± 1135
pull
Entries 90
Mean −1928
Std Dev 0

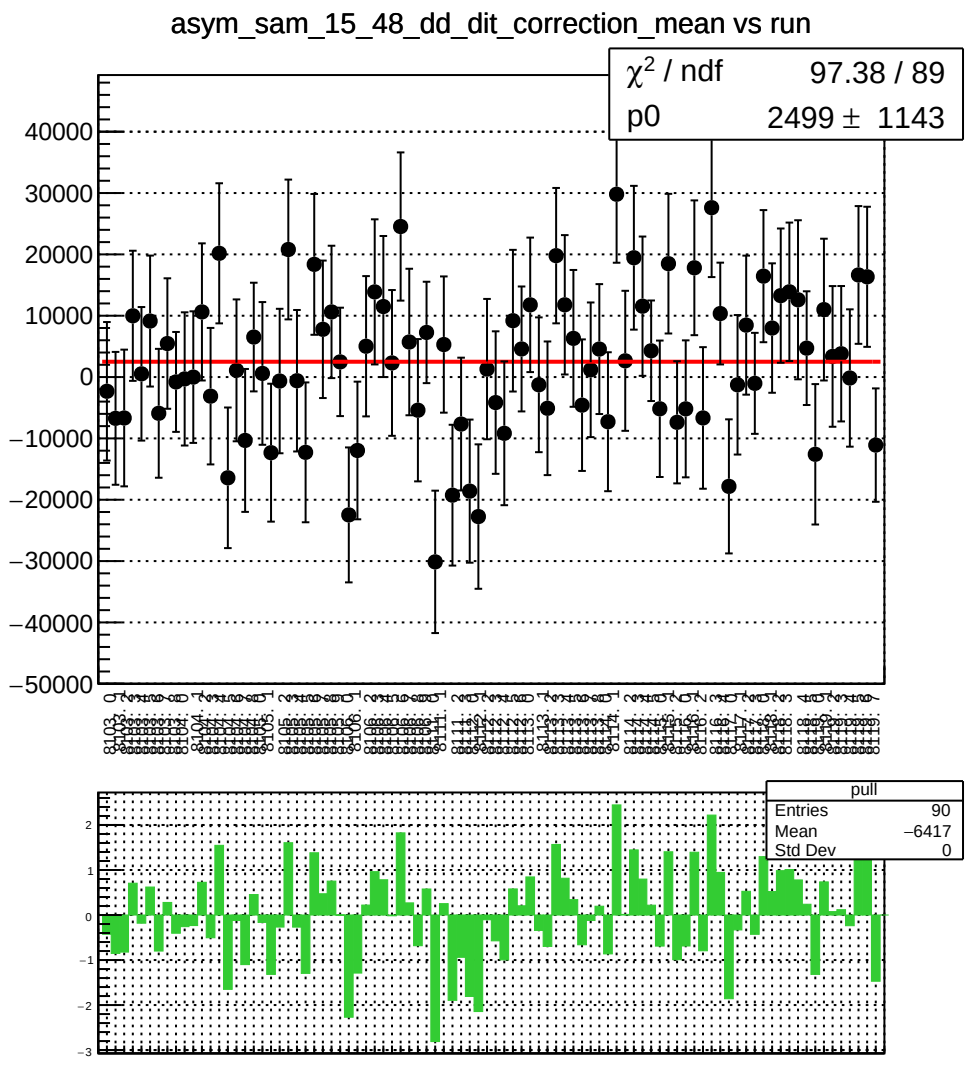

pull1D
Entries 90
Mean −0.002398
Std Dev 1.033

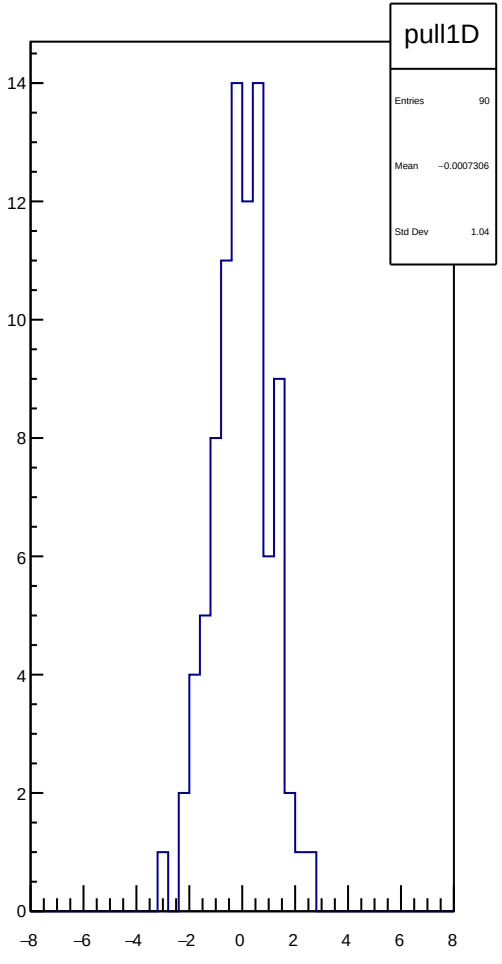

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2183 / 89
p0 1064 ± 0.8028
1200
1150
1100
1050
1000

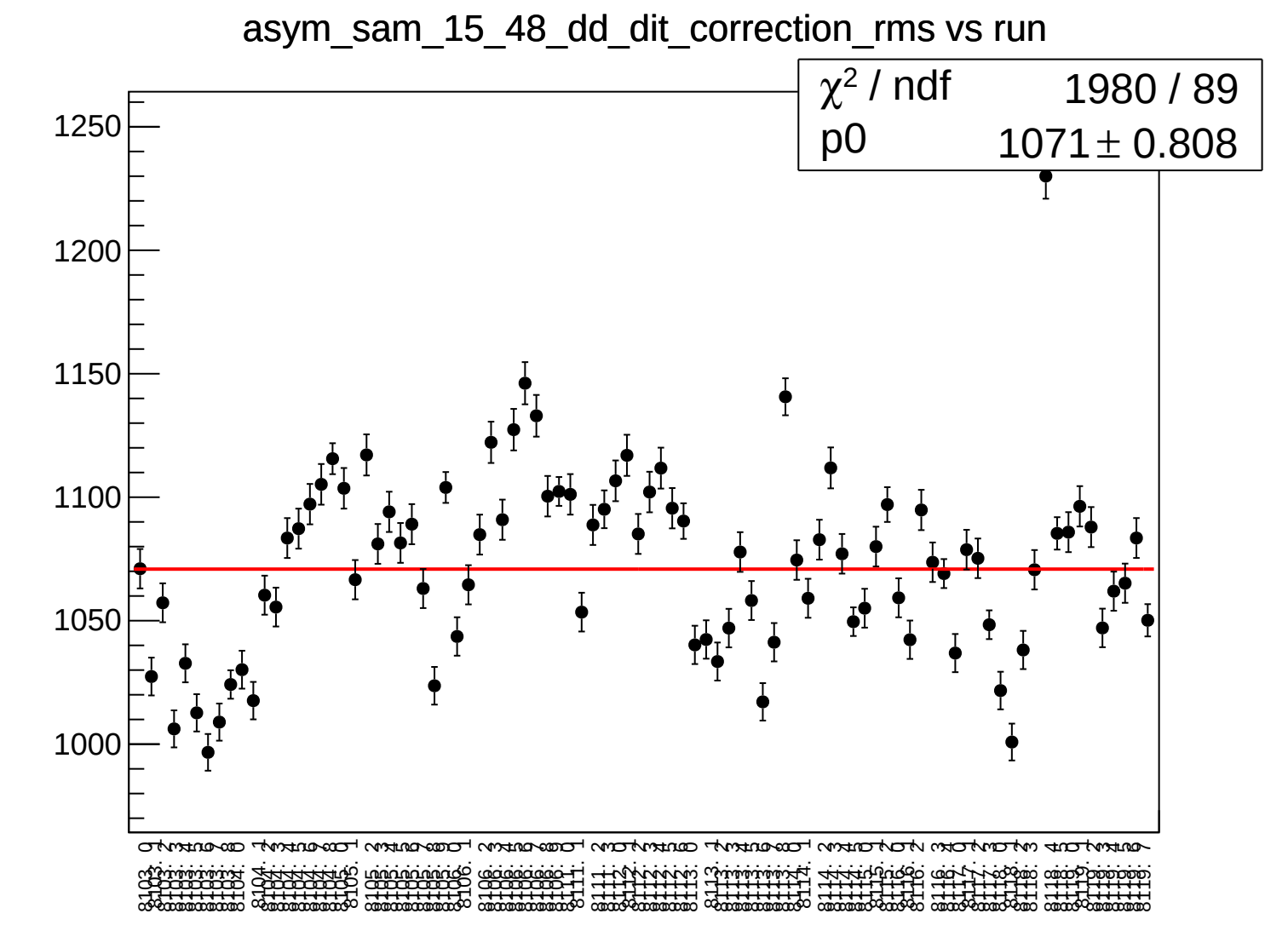

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 83.23 / 89
p0 15.18 ± 69.03
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −220.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

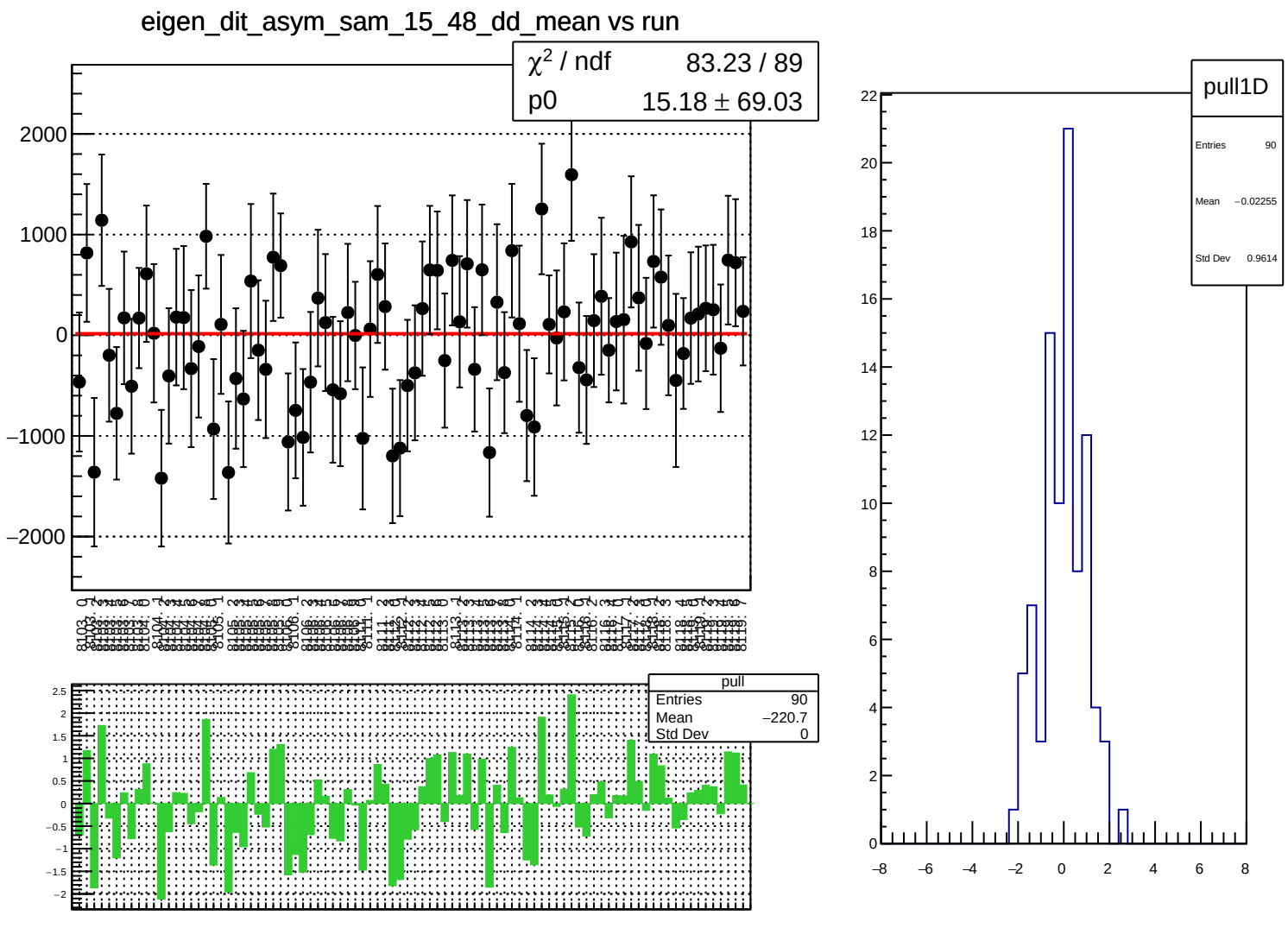

pull1D
Entries 90
Mean −0.02255
Std Dev 0.9614
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

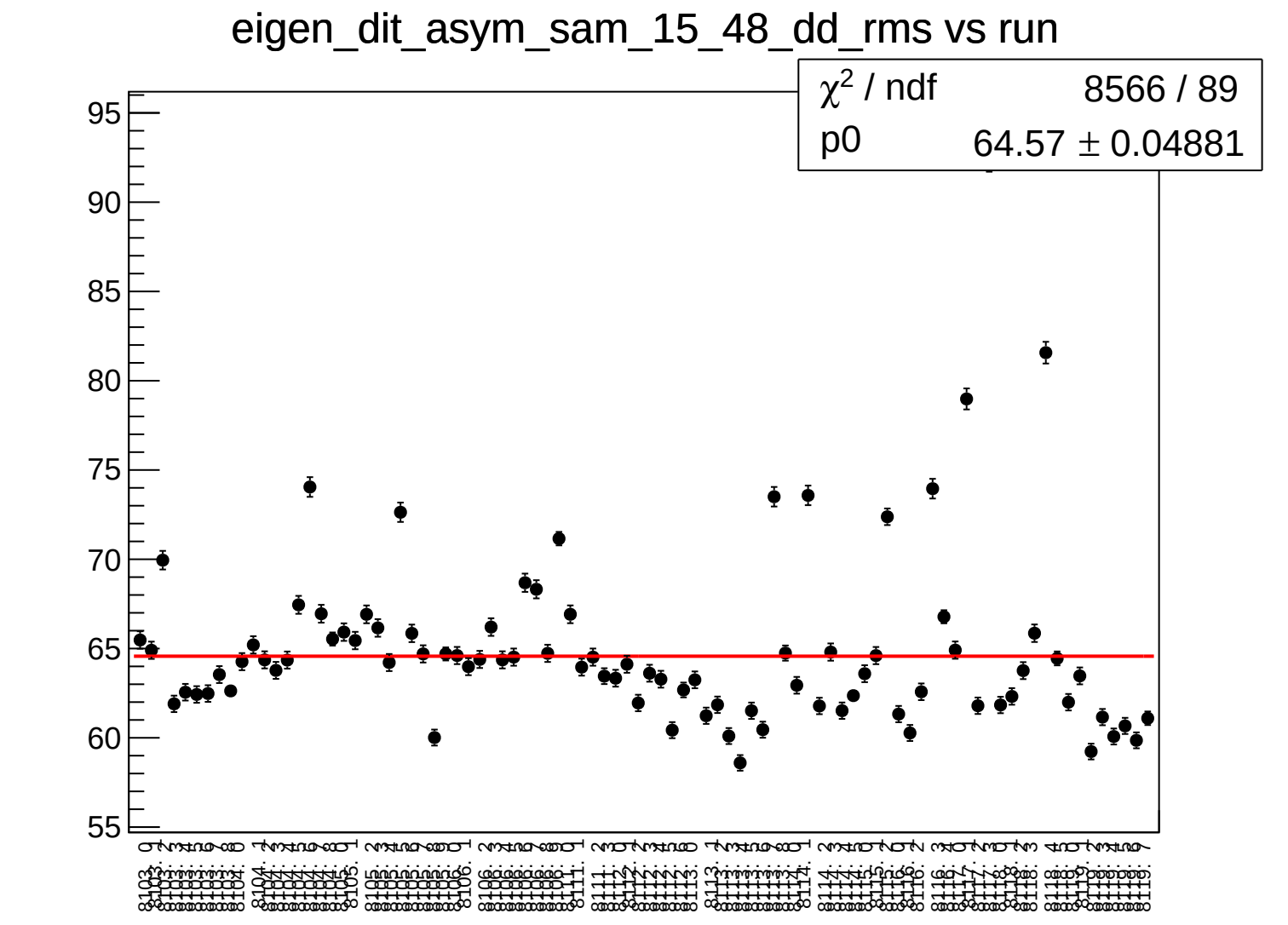

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8566 / 89
p0 64.57 ± 0.04881
95
90
85
80
75
70
65
60
55

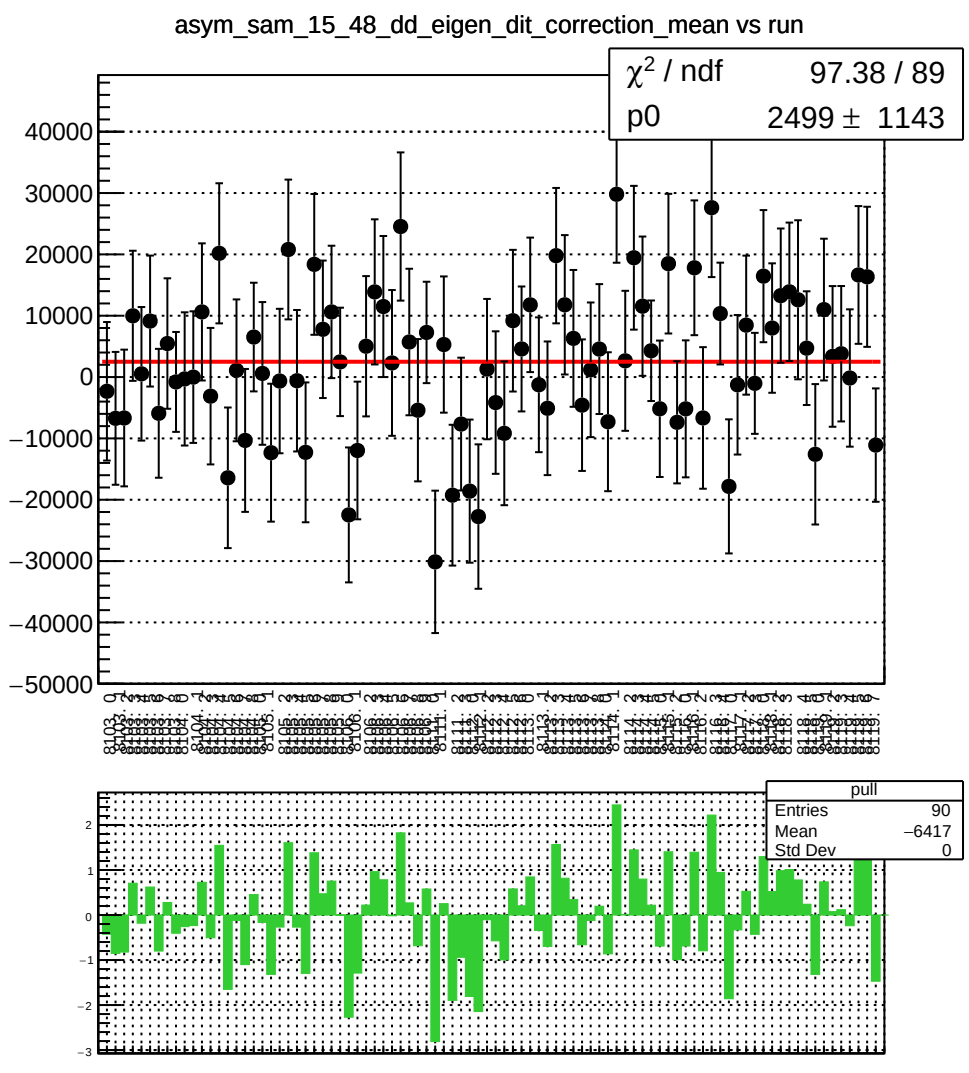

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 97.38 / 89
p0 2499 ± 1143
pull
Entries 90
Mean −6417
Std Dev 0

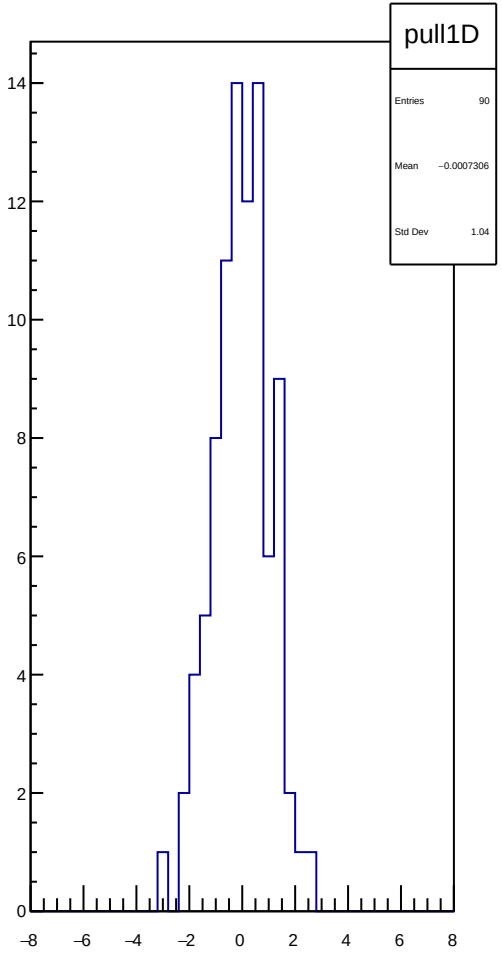

pull1D
Entries 90
Mean −0.0007306
Std Dev 1.04

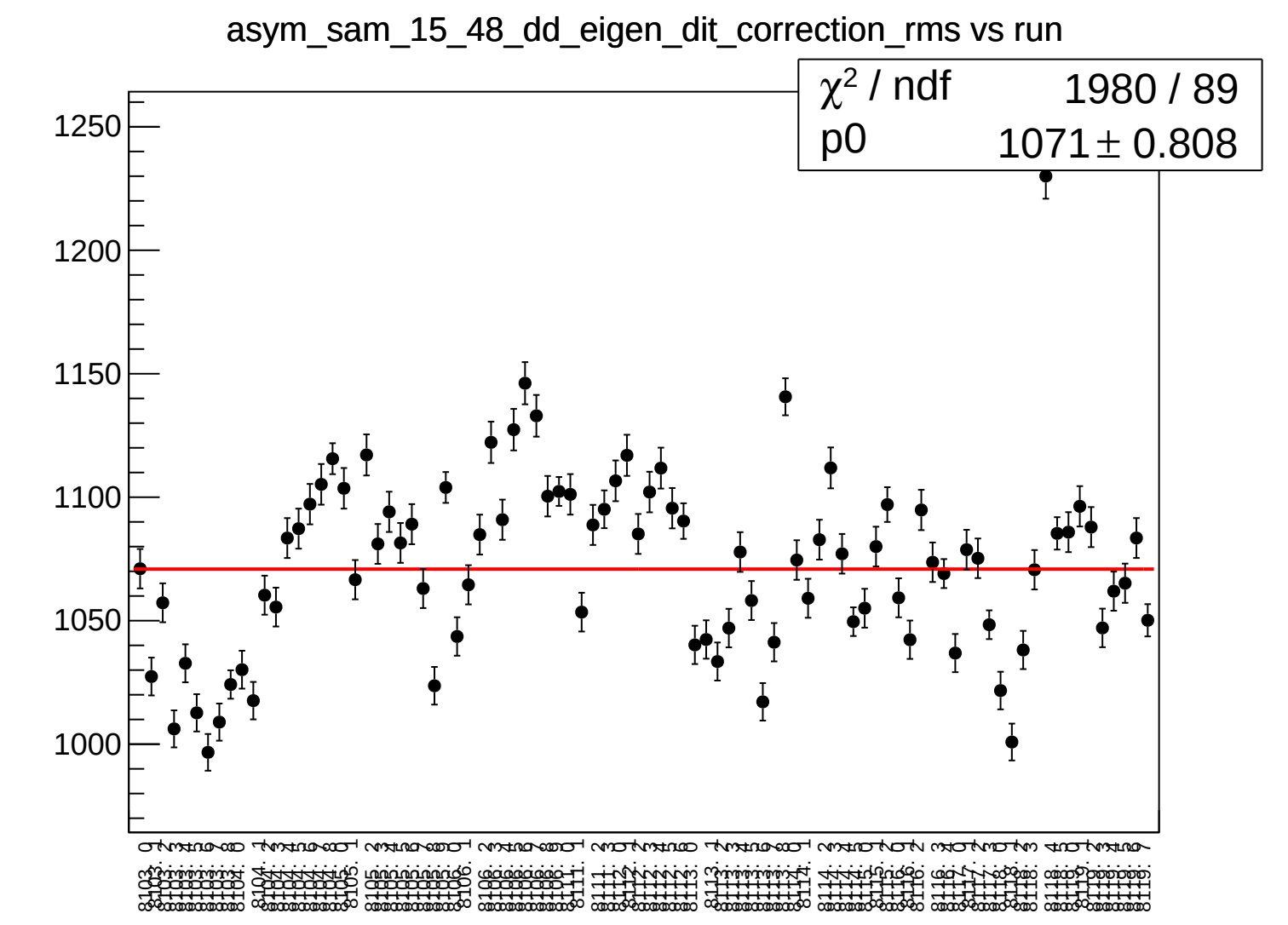

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1980 / 89
p0 1071 ± 0.808
1250
1200
1150
1100
1050
1000

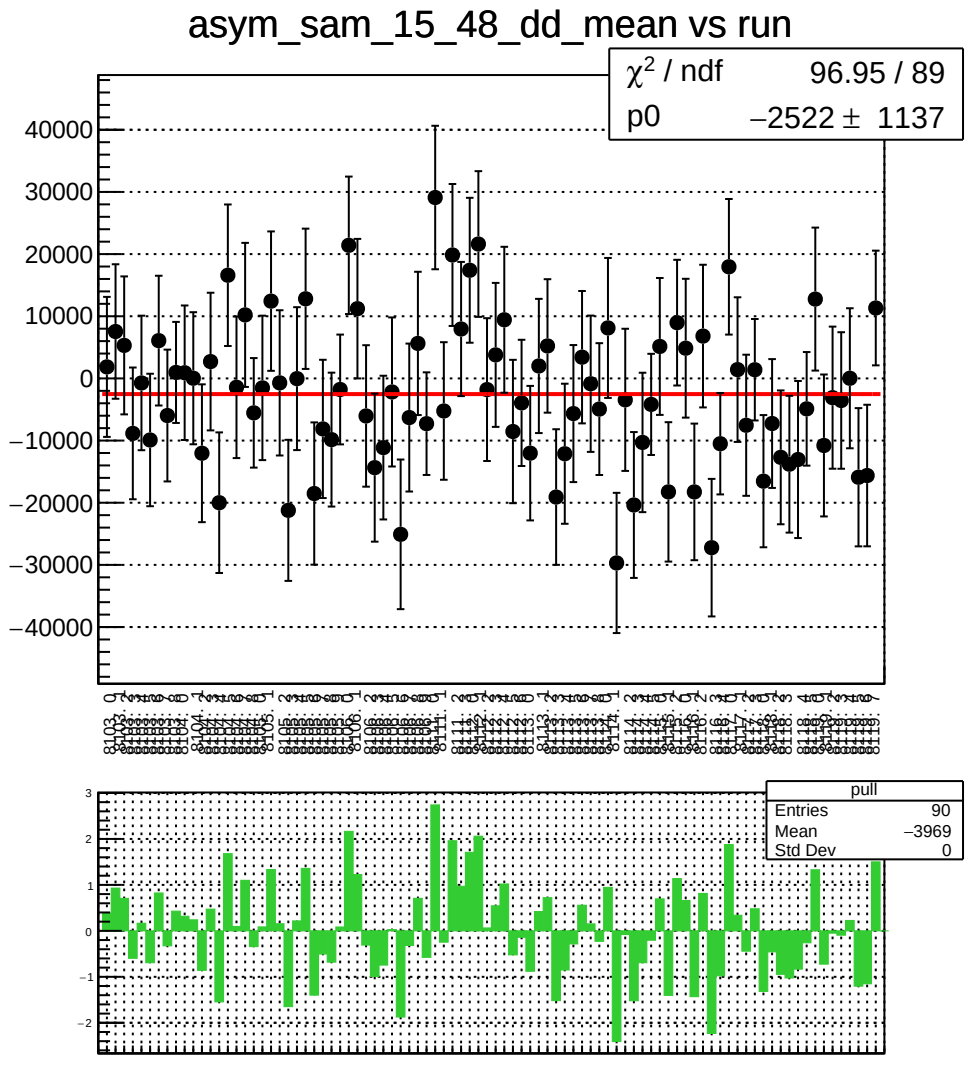

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 83.23 / 89
p0 15.18 ± 69.03
2000
1000
0
−1000
−2000
pull
Entries 90
Mean −220.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.02255
Std Dev 0.9614
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

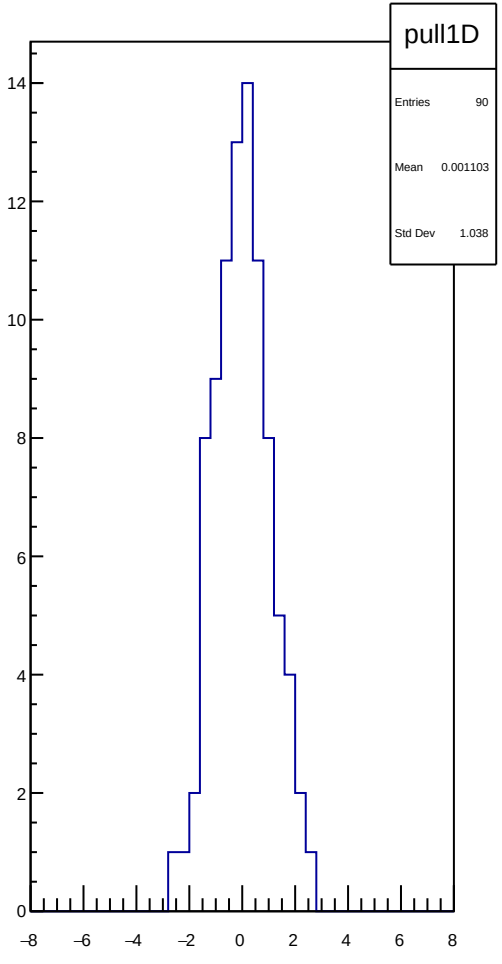

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8566 / 89
p0 64.57 ± 0.04881
95
90
85
80
75
70
65
60
55

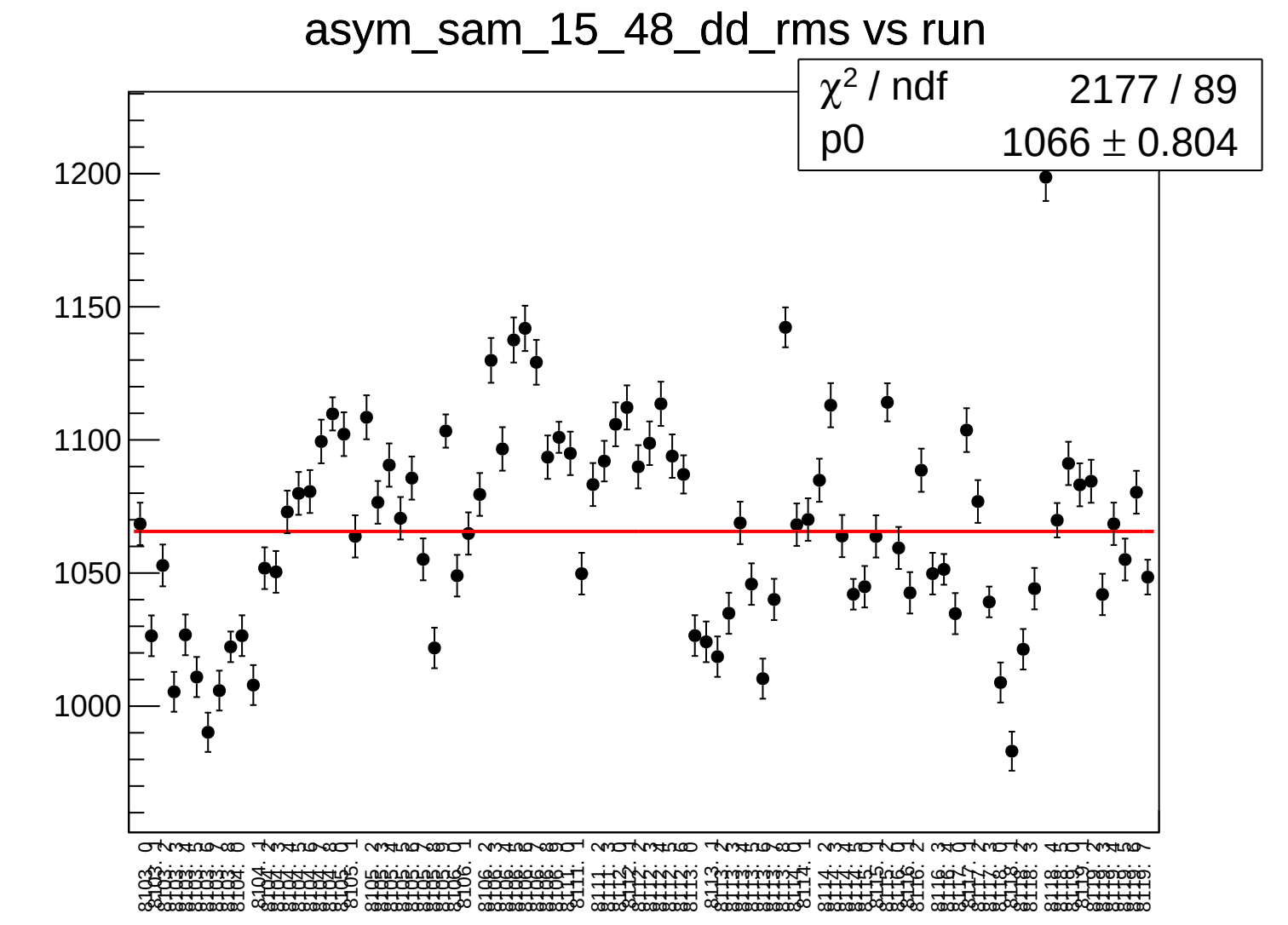

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.38 / 89
p0 2499 ± 1143
pull
Entries 90
Mean −6417
Std Dev 0

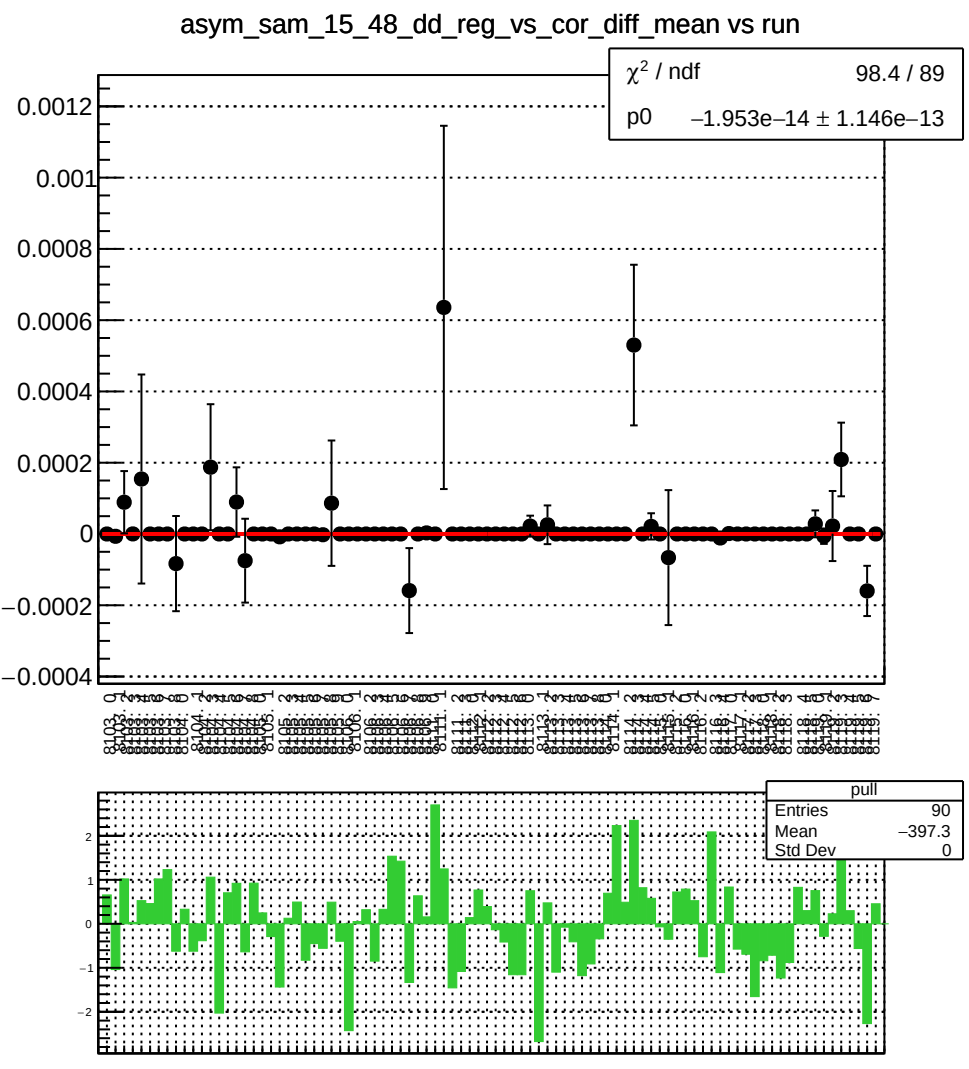

pull1D
Entries 90
Mean −0.0007306
Std Dev 1.04

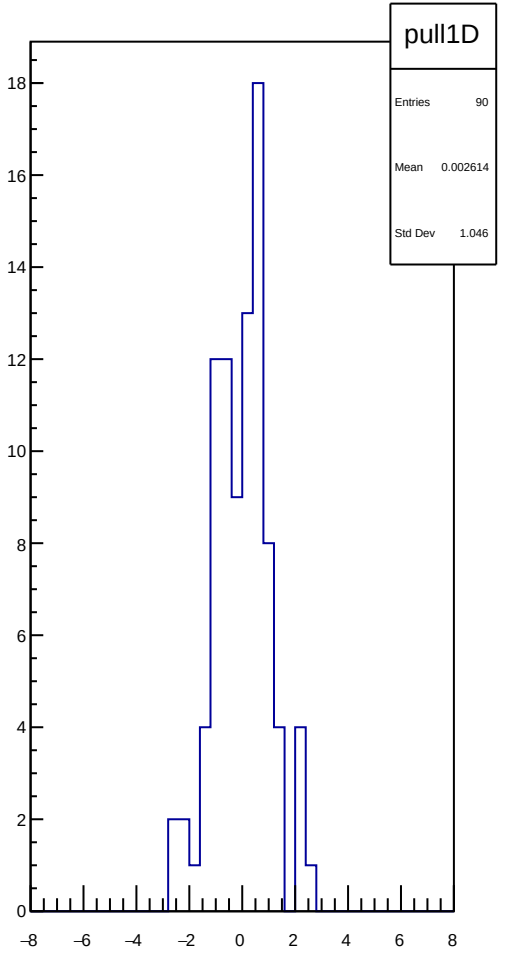

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1980 / 89
p0 1071 ± 0.808
1250
1200
1150
1100
1050
1000

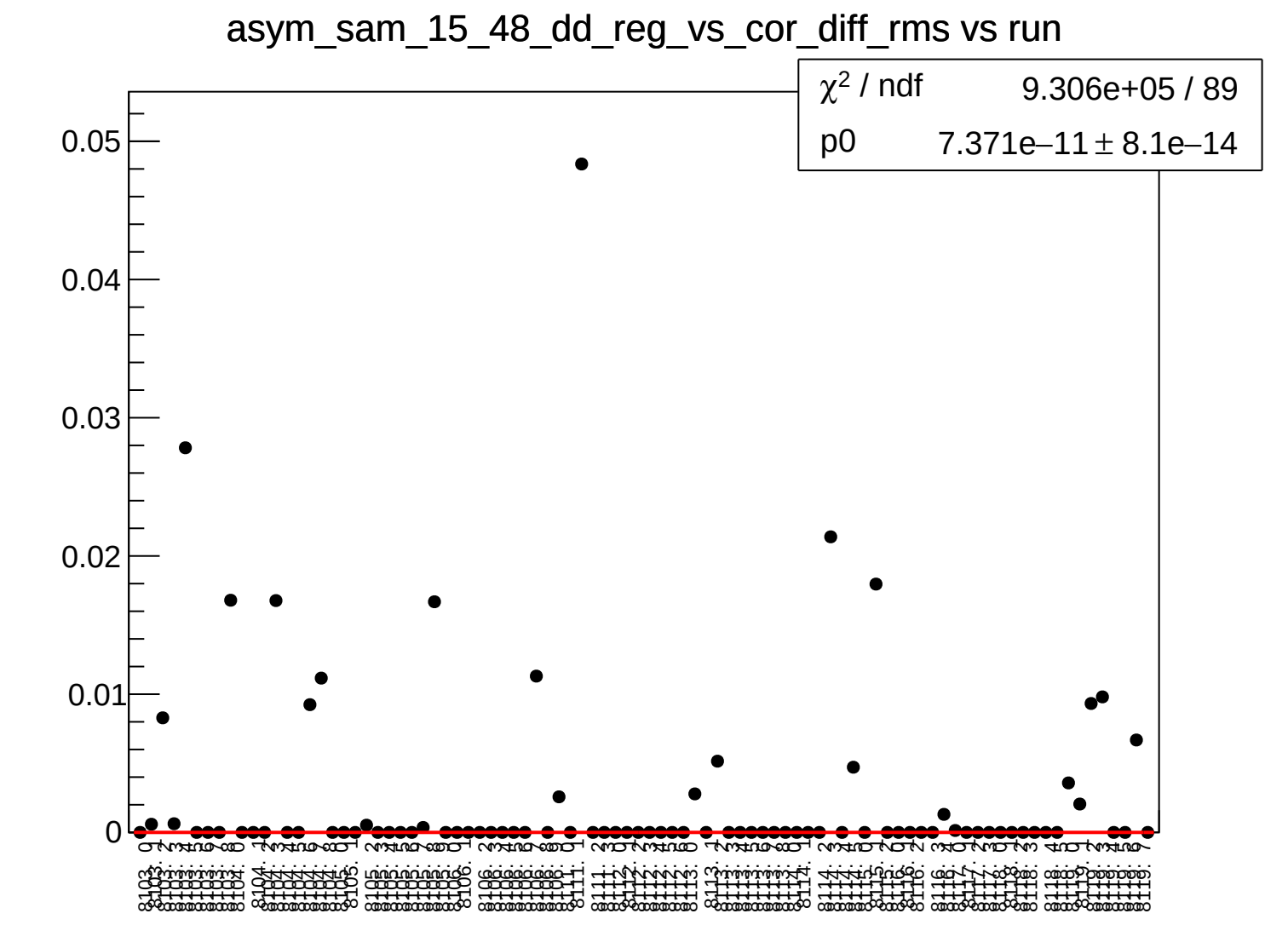

asym_sam_15_48_dd_mean vs run
χ² / ndf 96.95 / 89
p0 −2522 ± 1137
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −3969
Std Dev 0
3
2
1
0
−1
−2

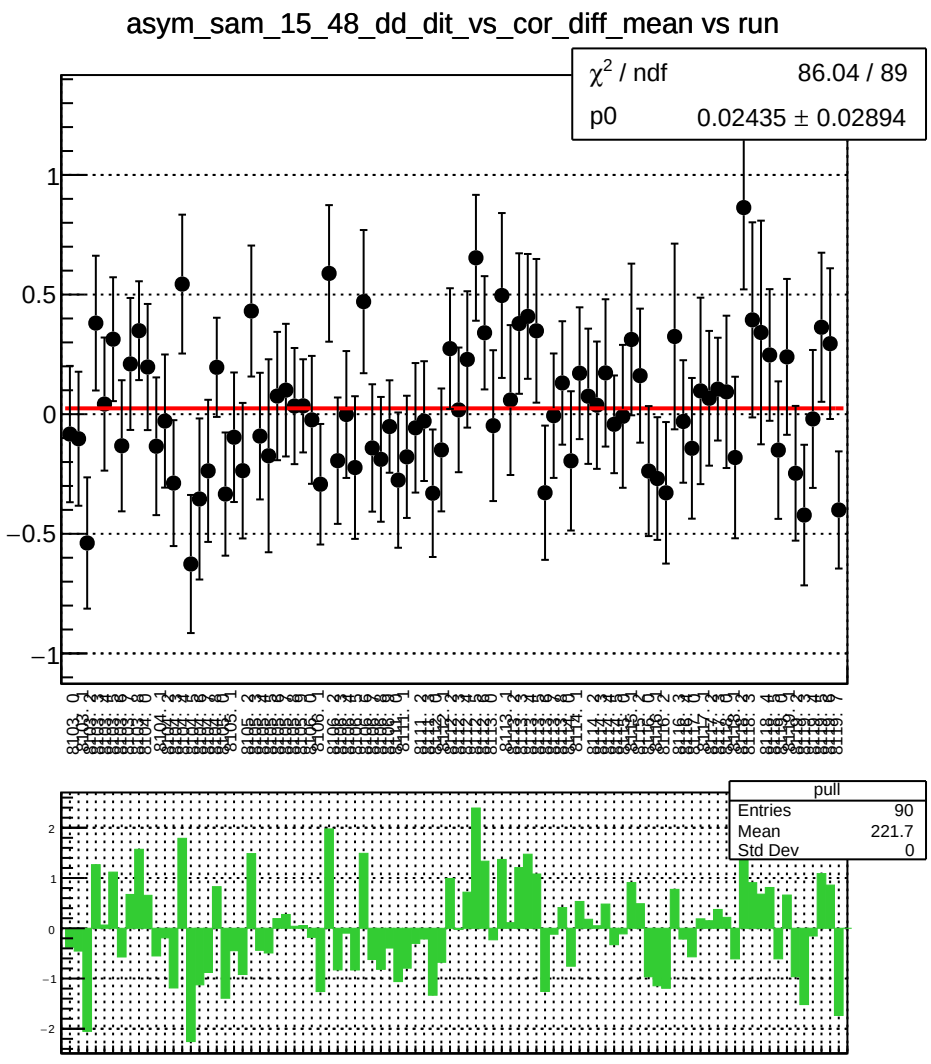

pull1D
Entries 90
Mean 0.001103
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

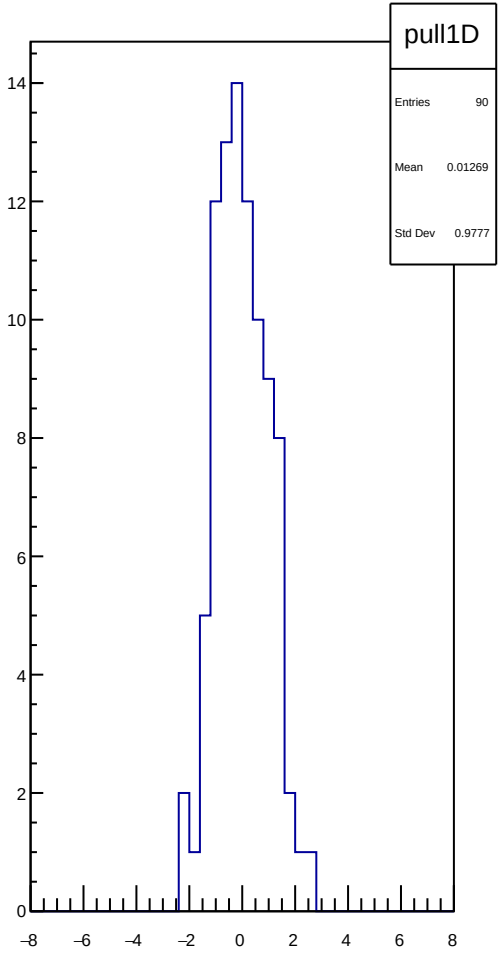

asym_sam_15_48_dd_rms vs run
χ² / ndf 2177 / 89
p0 1066 ± 0.804
1200
1150
1100
1050
1000

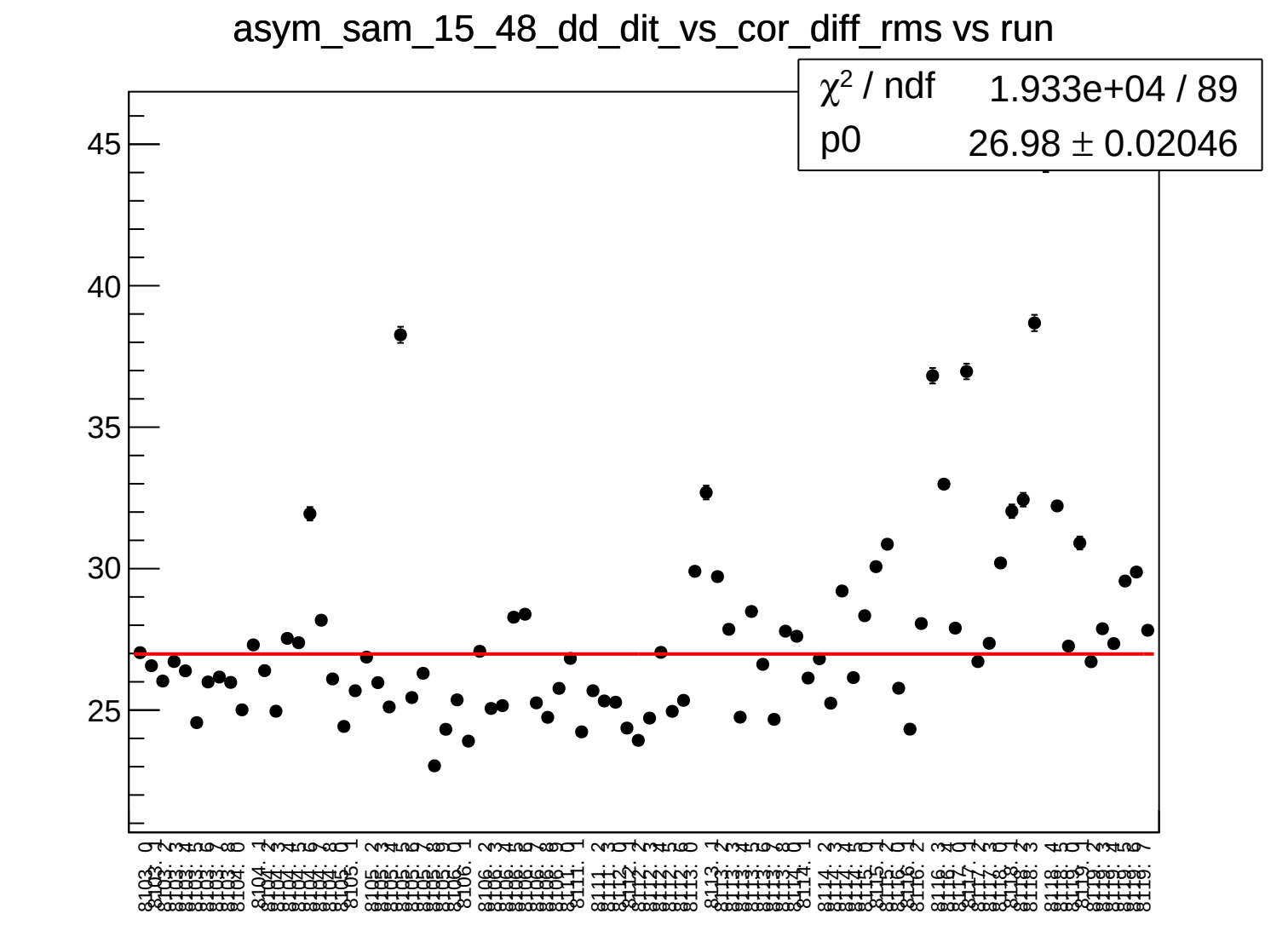

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.4 / 89
p0 −1.953e−14 ± 1.146e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 90
Mean −397.3
Std Dev 0
2
1
0
−1
−2

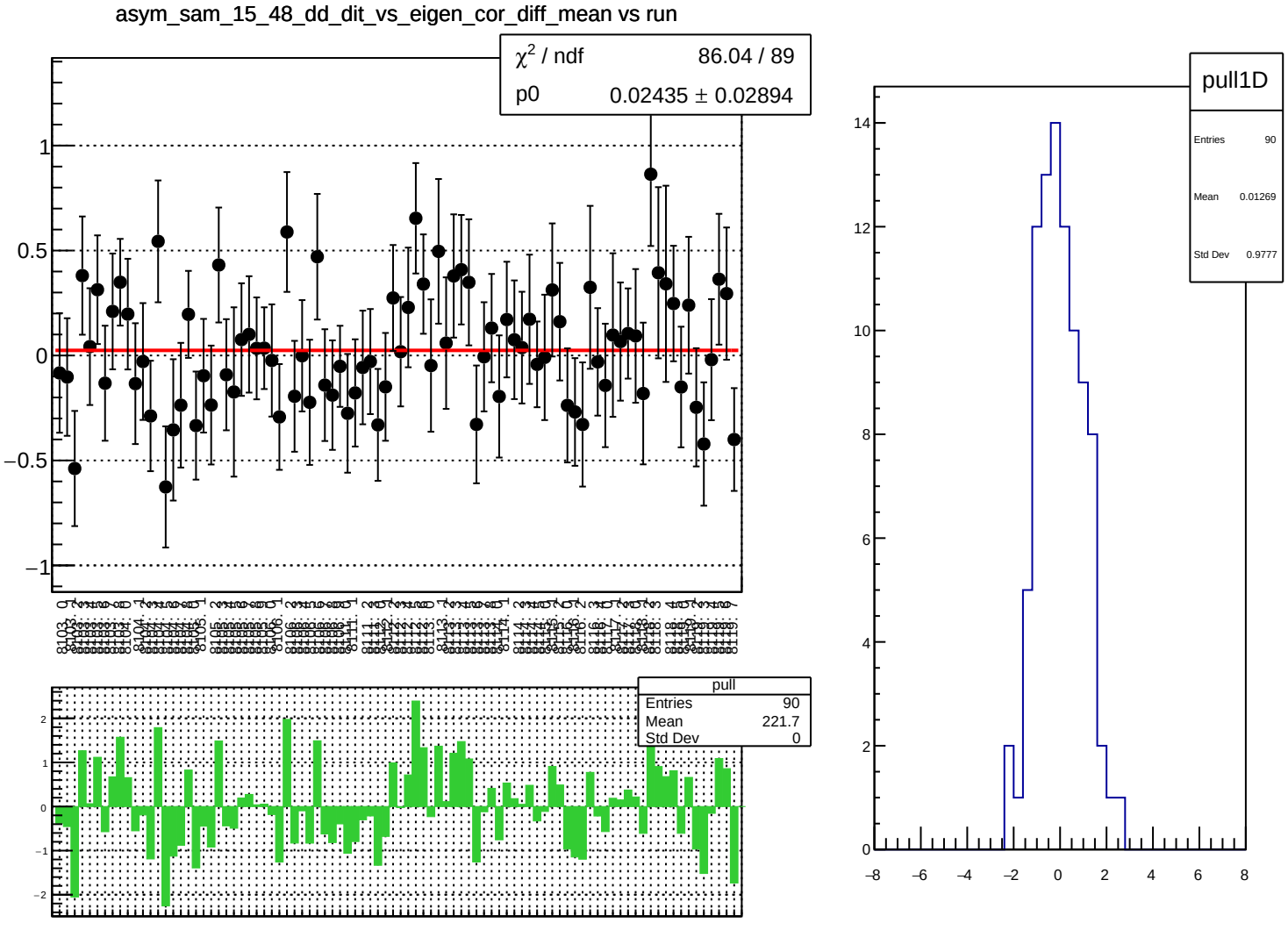

pull1D
Entries 90
Mean 0.002614
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

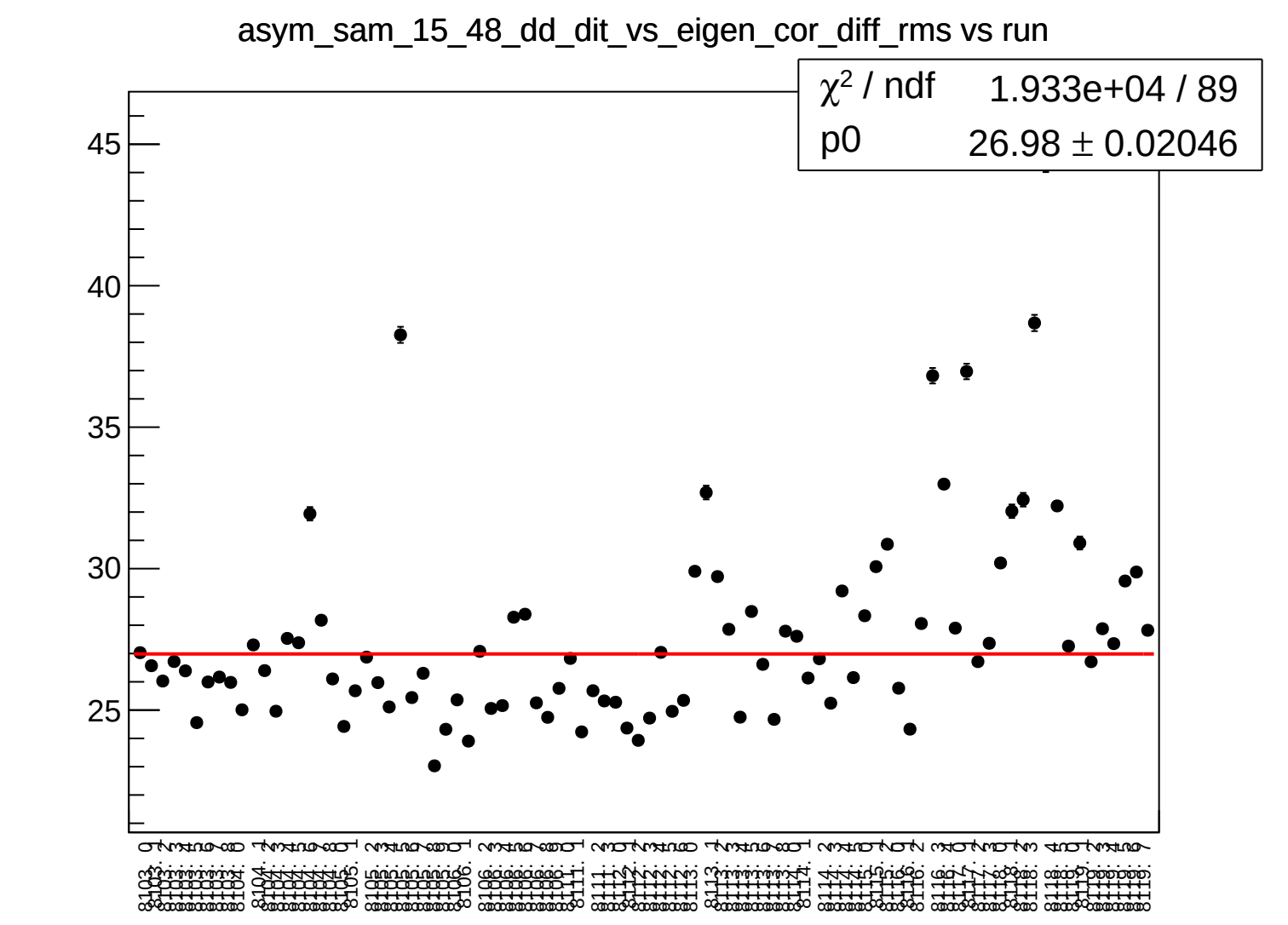

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.306e+05 / 89
p0 7.371e−11 ± 8.1e−14
0.05
0.04
0.03
0.02
0.01
0

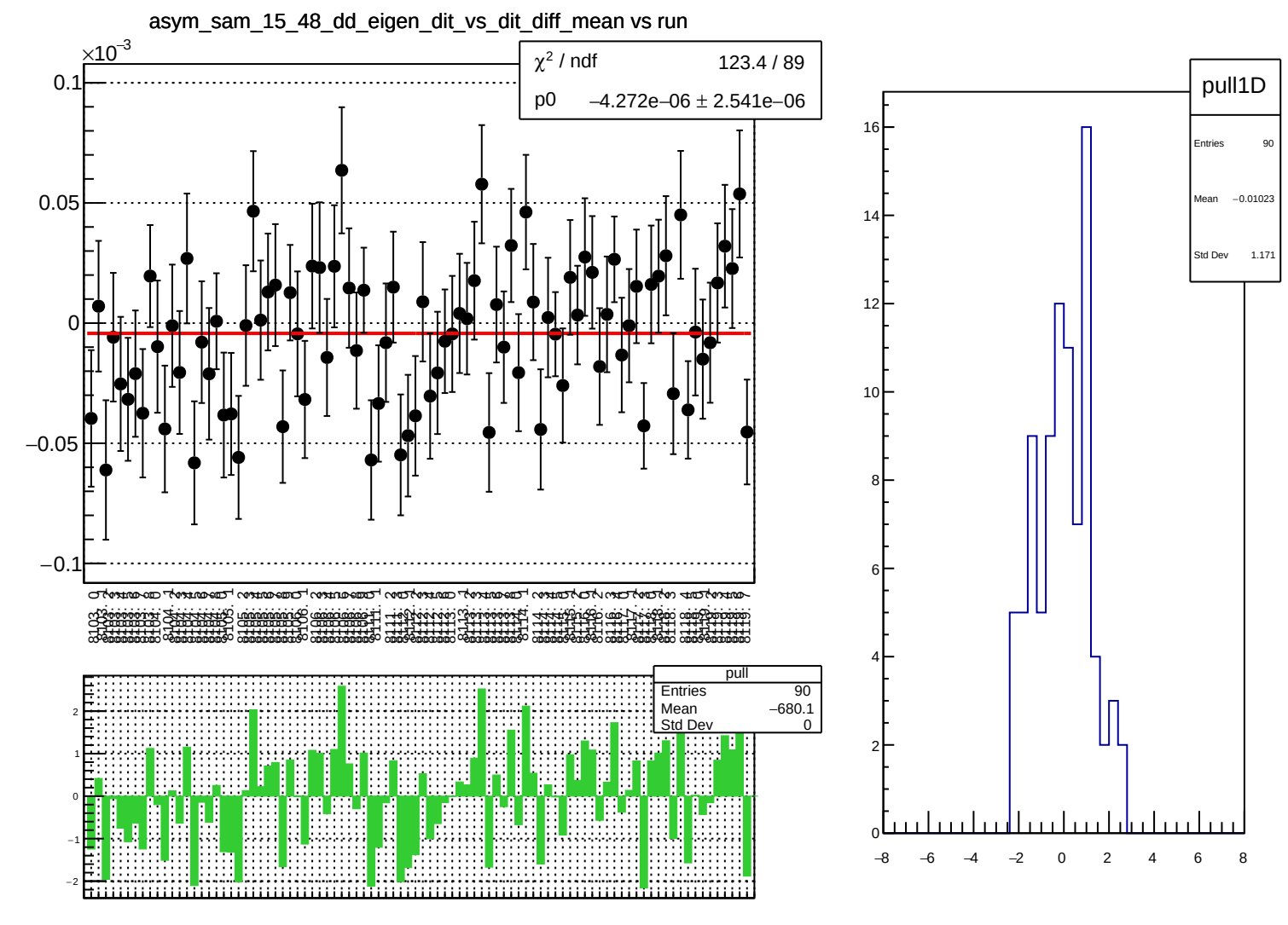

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.04 / 89
p0 0.02435 ± 0.02894
pull
Entries 90
Mean 221.7
Std Dev 0

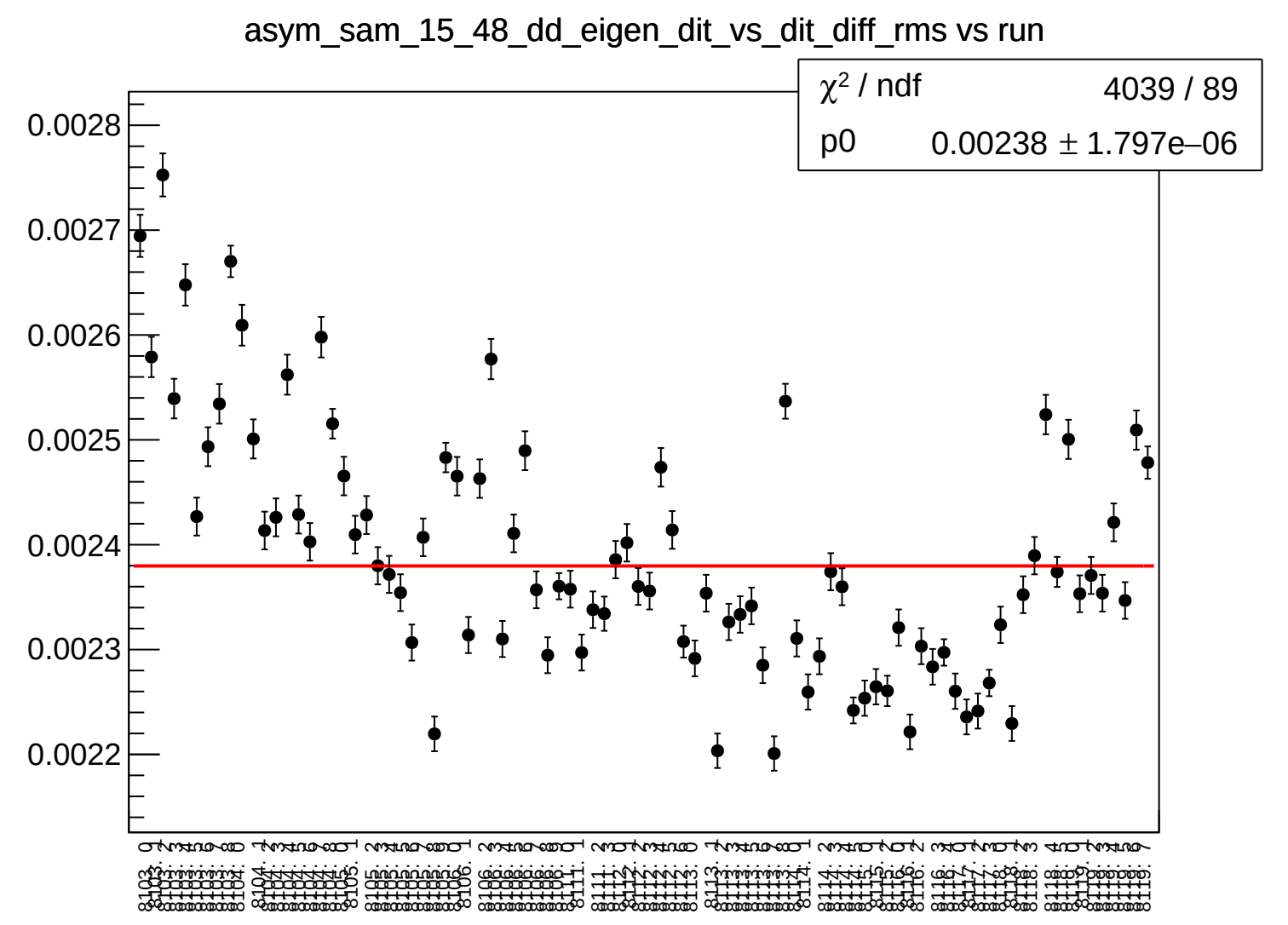

pull1D
Entries 90
Mean 0.01269
Std Dev 0.9777

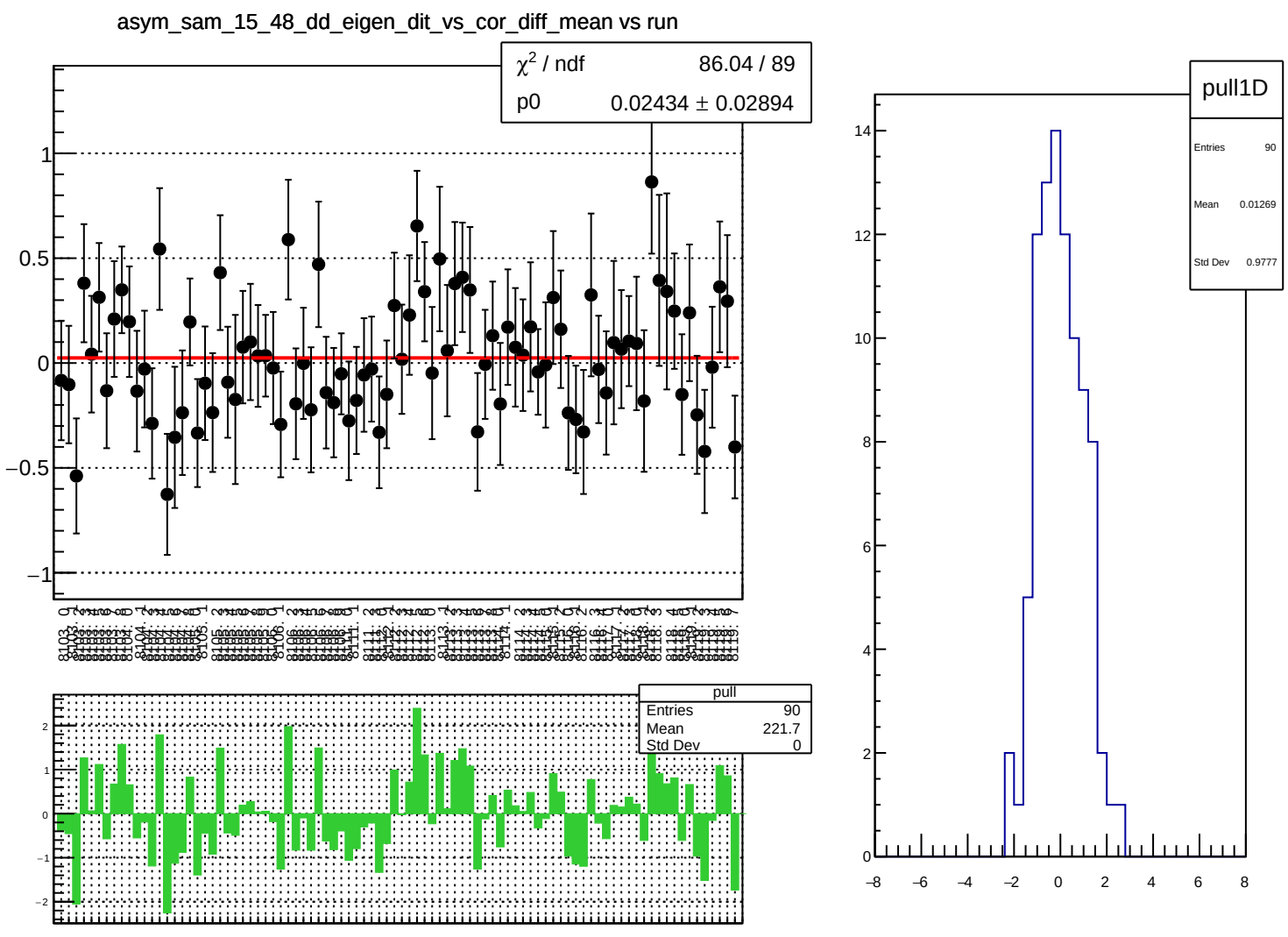

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.933e+04 / 89
p0 26.98 ± 0.02046
45
40
35
30
25

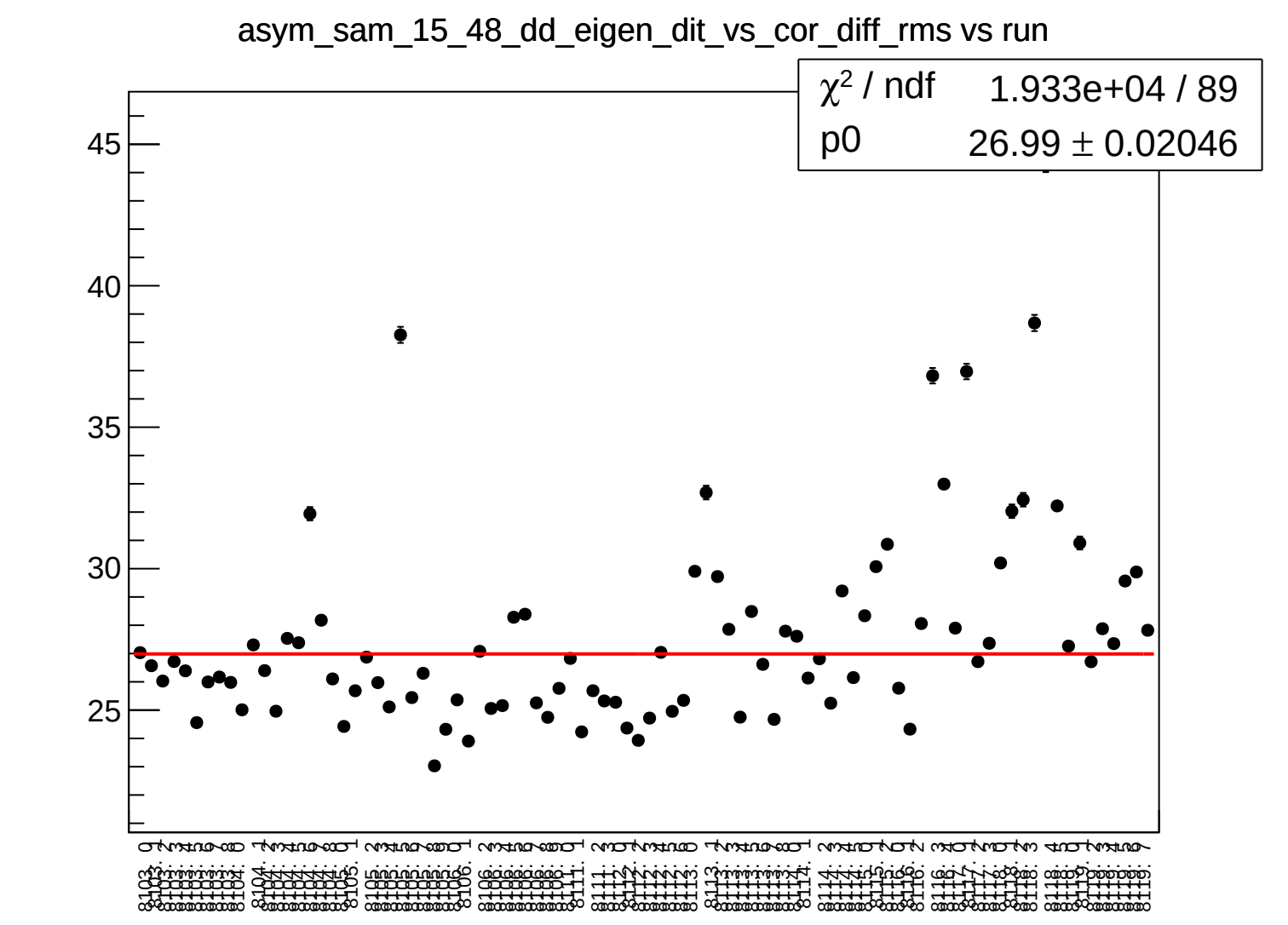

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.04 / 89
p0 0.02435 ± 0.02894
pull
Entries 90
Mean 221.7
Std Dev 0
pull1D
Entries 90
Mean 0.01269
Std Dev 0.9777

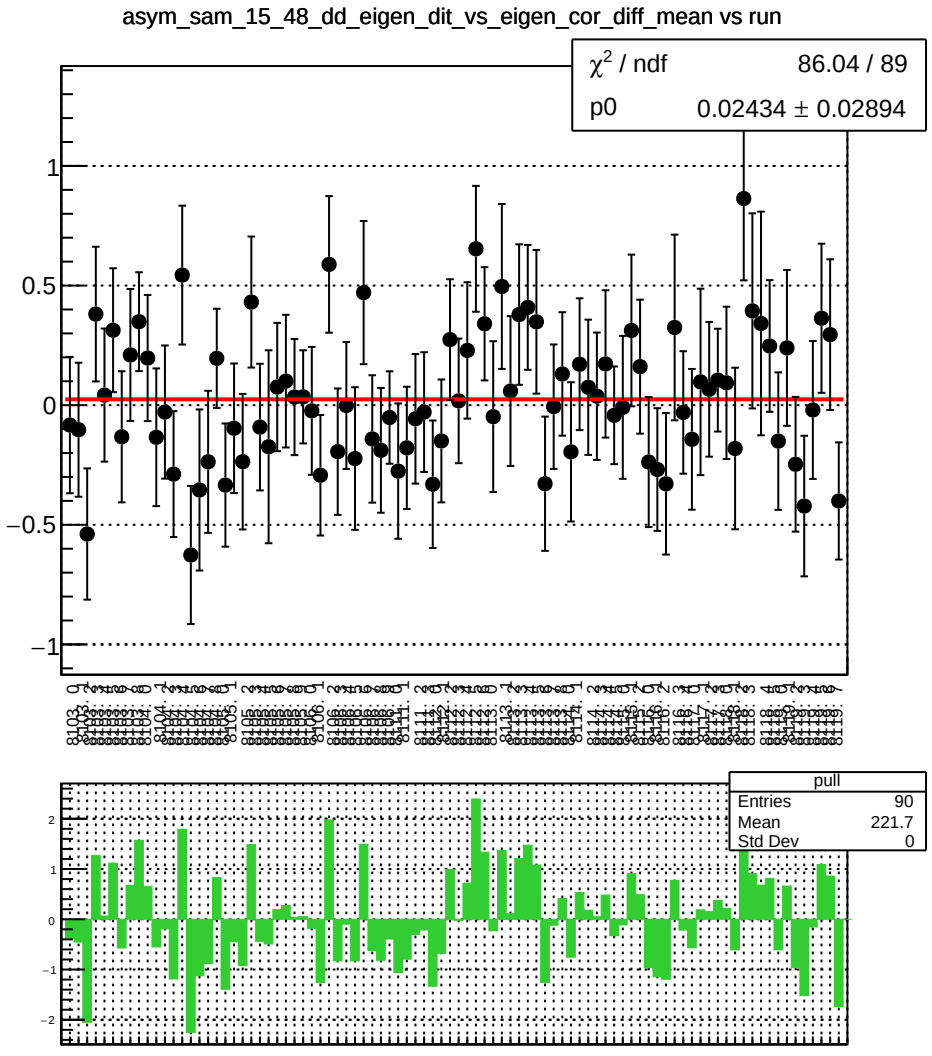

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.933e+04 / 89
p0 26.98 ± 0.02046
45
40
35
30
25

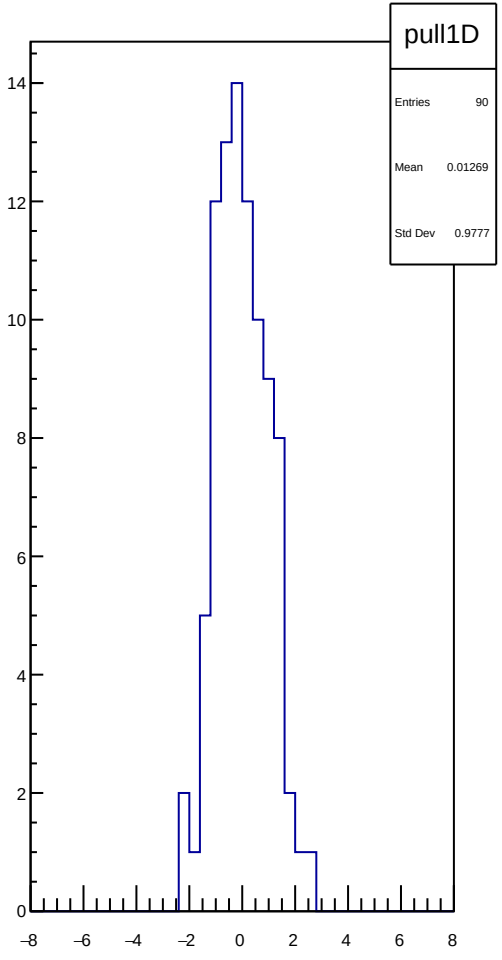

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 123.4 / 89
p0 −4.272e−06 ± 2.541e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −680.1
Std Dev 0
pull1D
Entries 90
Mean −0.01023
Std Dev 1.171

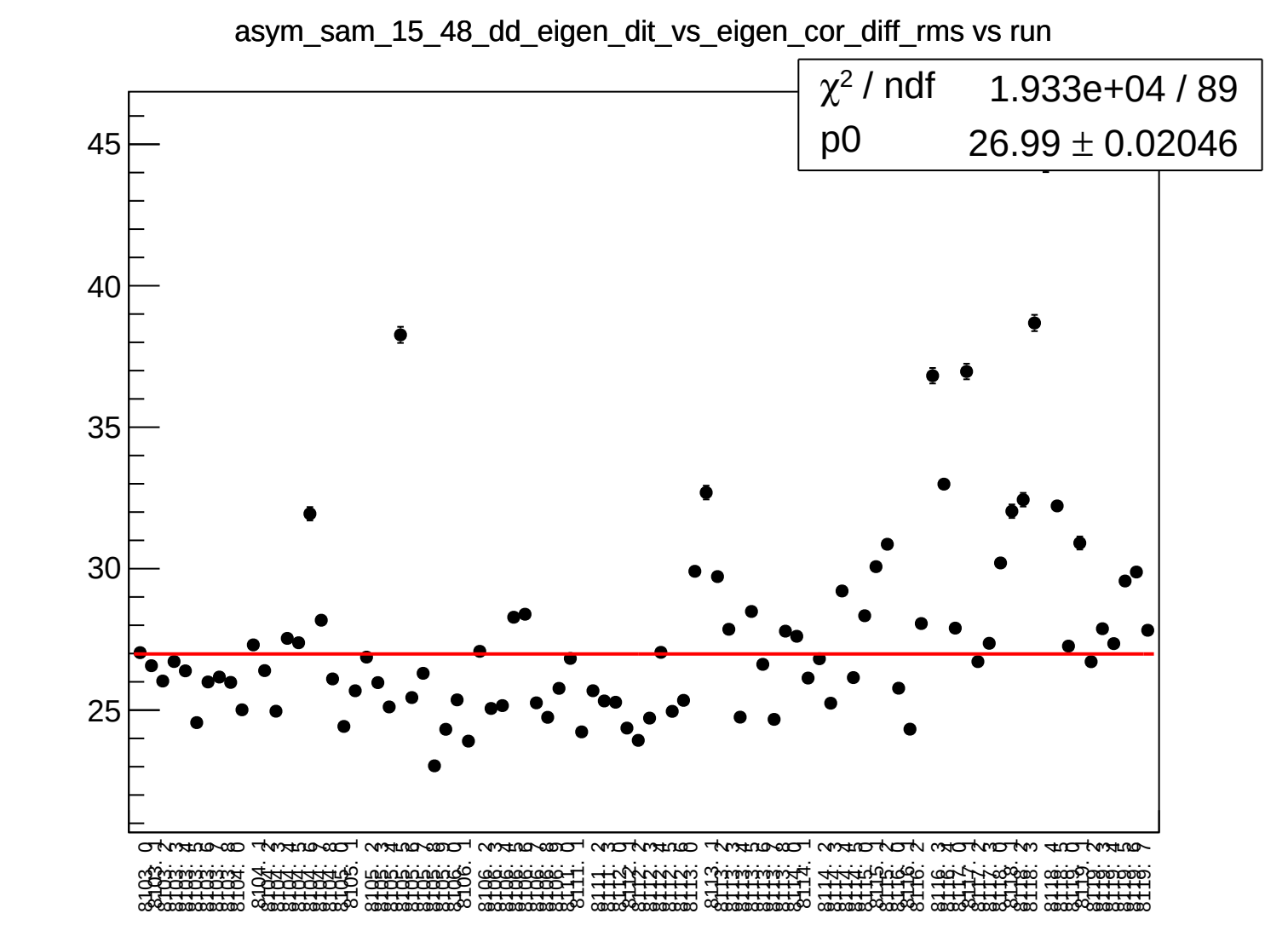

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4039 / 89
p0 0.00238 ± 1.797e–06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

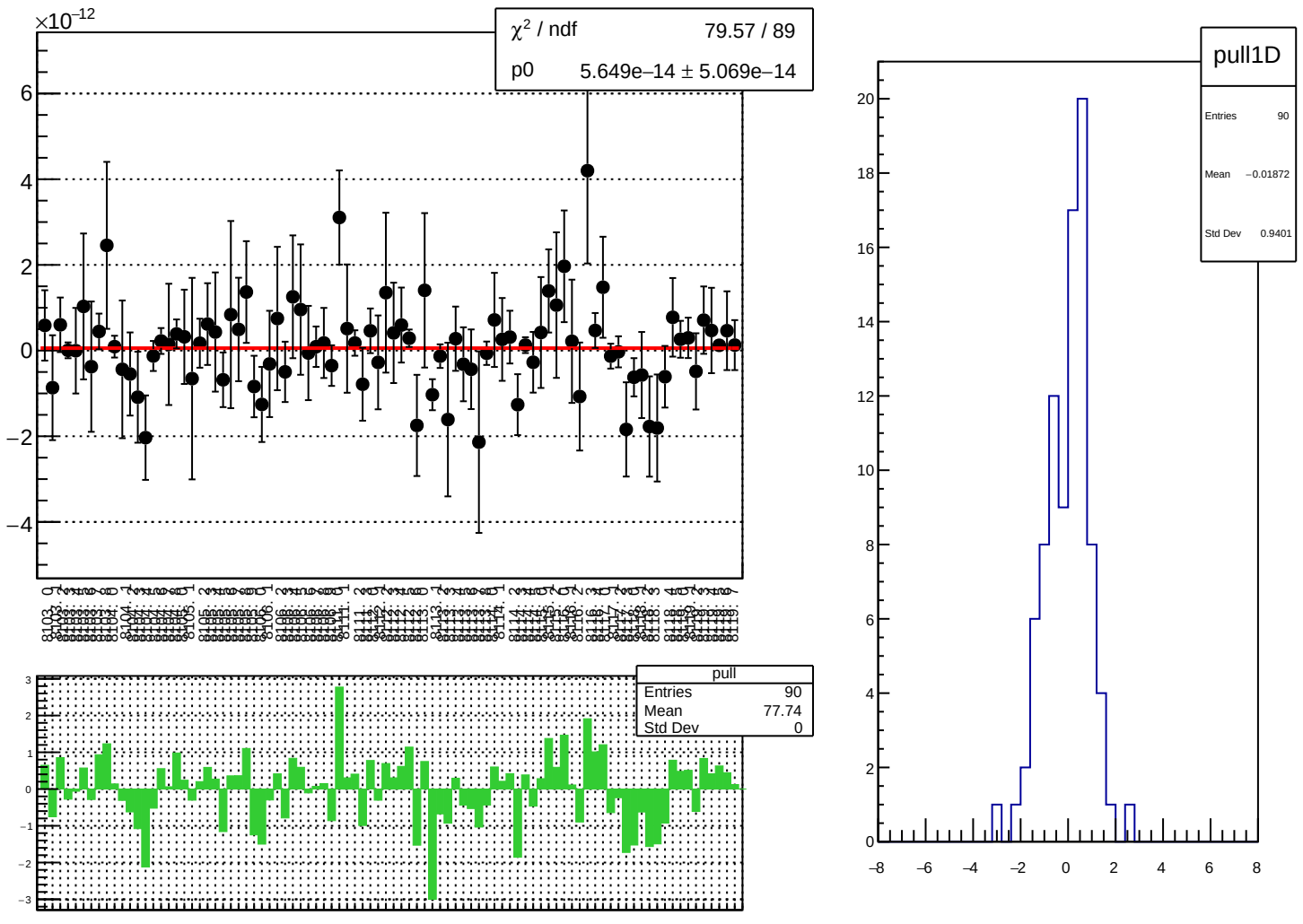

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.04 / 89
p0 0.02434 ± 0.02894
pull
Entries 90
Mean 221.7
Std Dev 0
pull1D
Entries 90
Mean 0.01269
Std Dev 0.9777

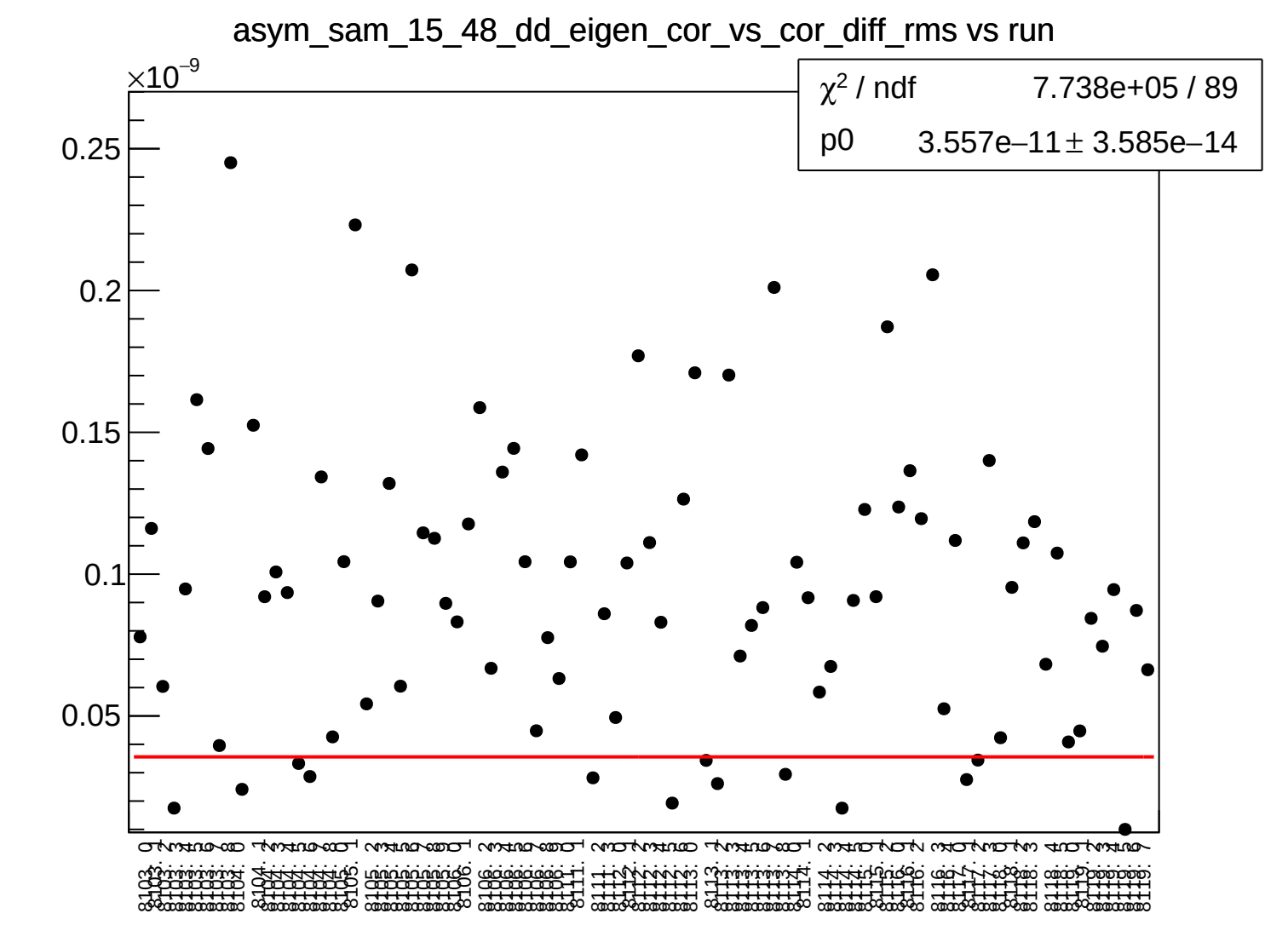

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.933e+04 / 89
p0 26.99 ± 0.02046
45
40
35
30
25

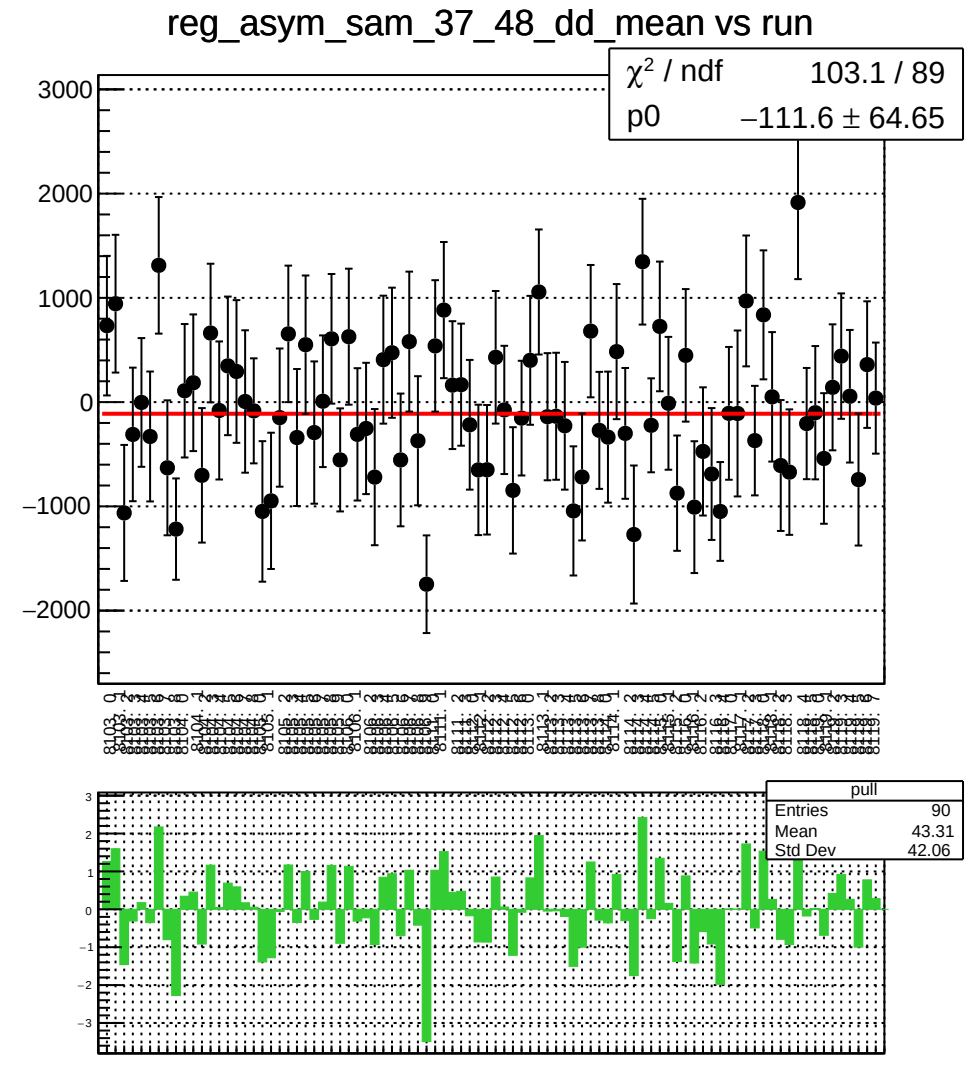

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.04 / 89
p0 0.02434 ± 0.02894
pull
Entries 90
Mean 221.7
Std Dev 0

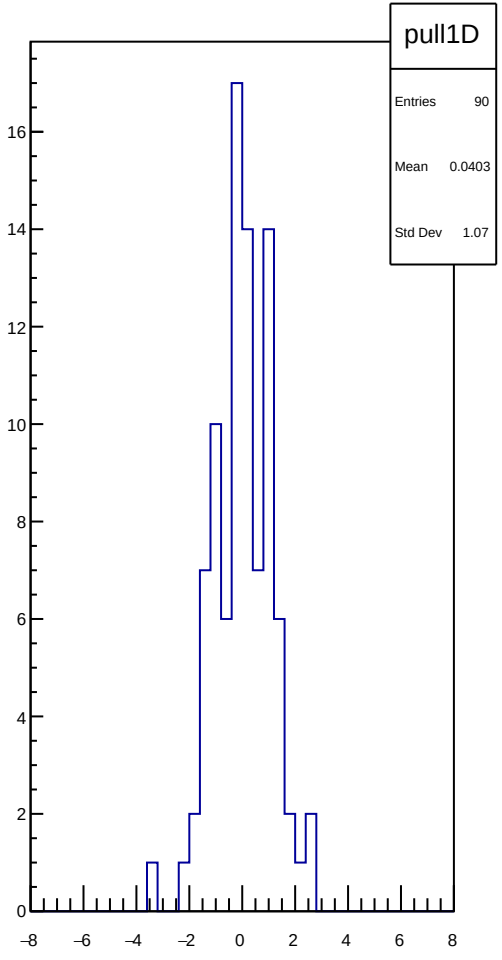

pull1D
Entries 90
Mean 0.01269
Std Dev 0.9777

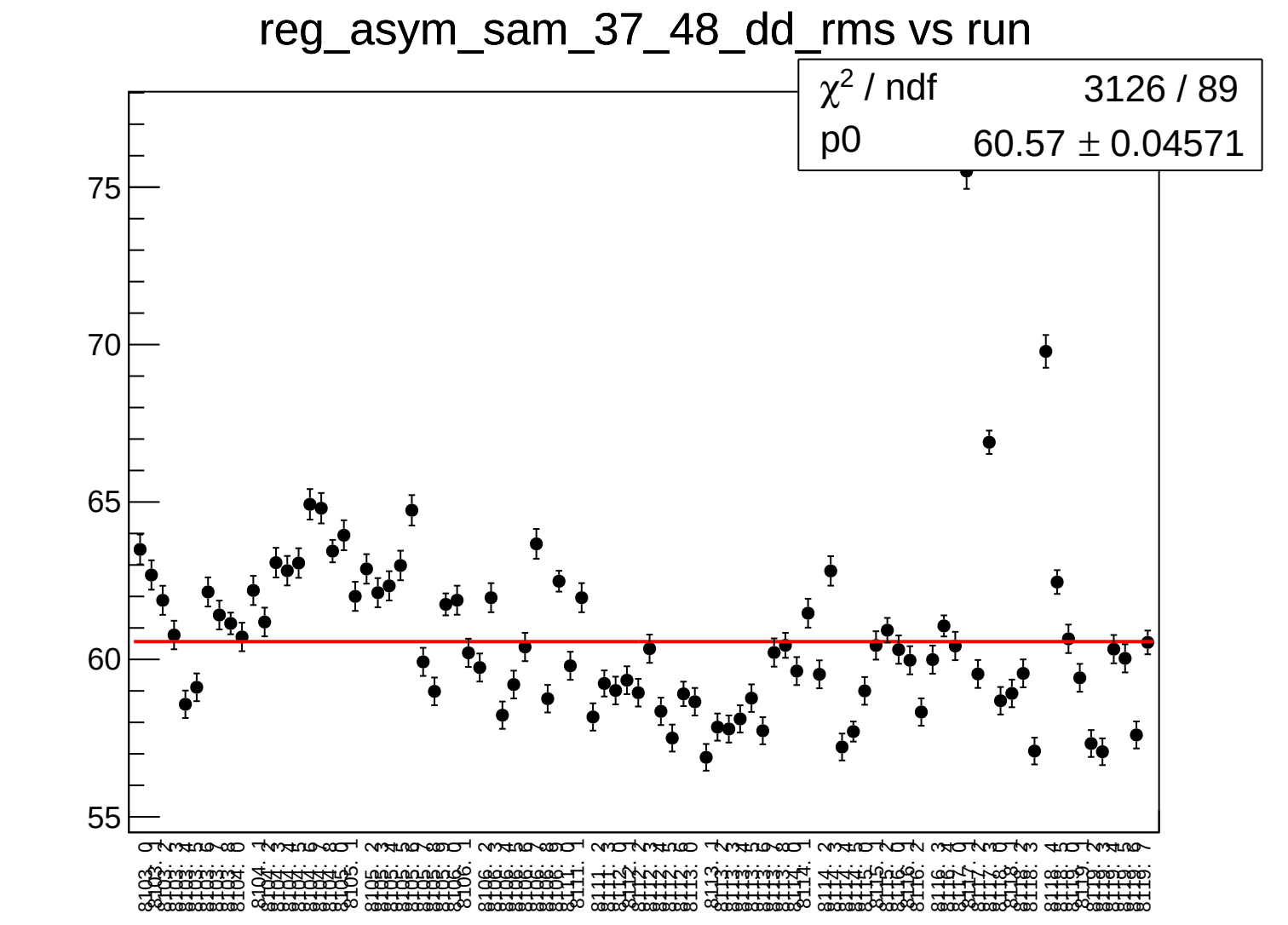

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.933e+04 / 89
p0 26.99 ± 0.02046
45
40
35
30
25

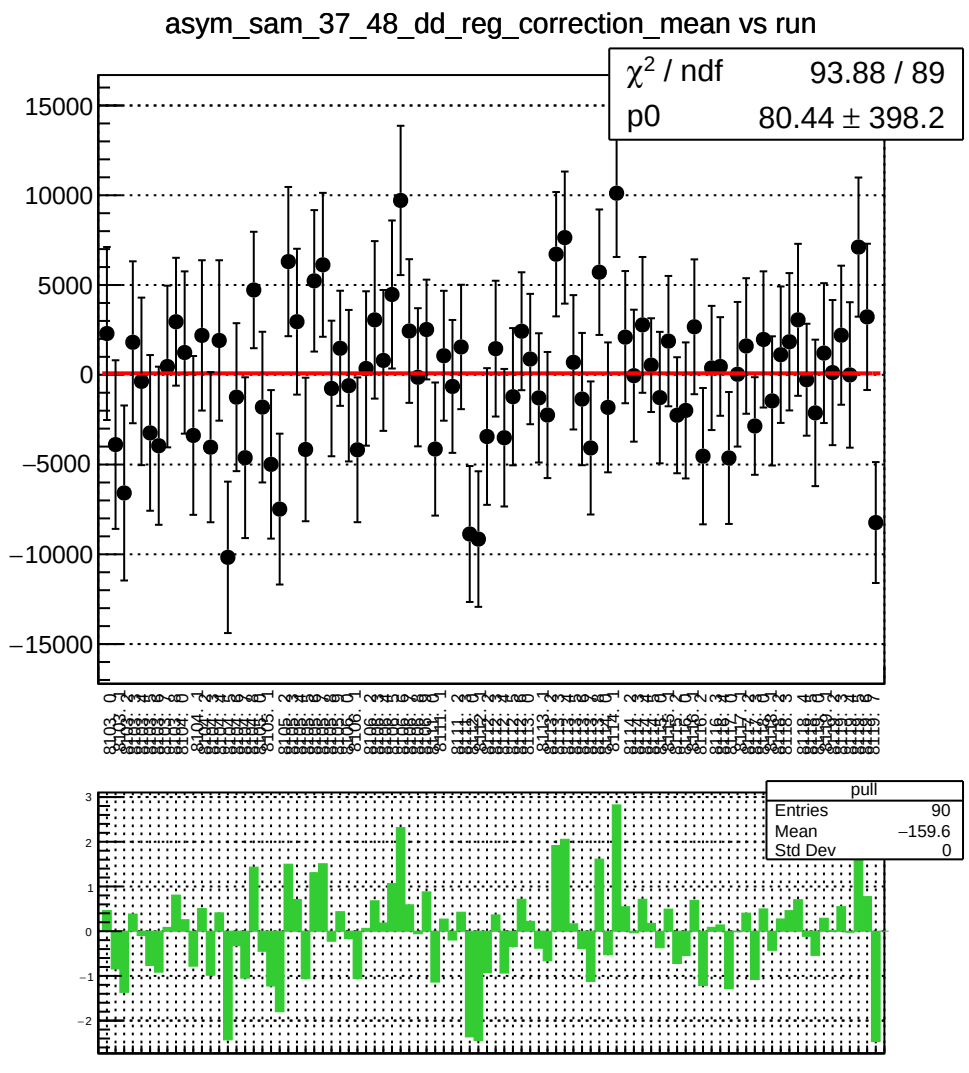

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.57 / 89
p0 5.649e−14 ± 5.069e−14
pull
Entries 90
Mean 77.74
Std Dev 0
pull1D
Entries 90
Mean −0.01872
Std Dev 0.9401

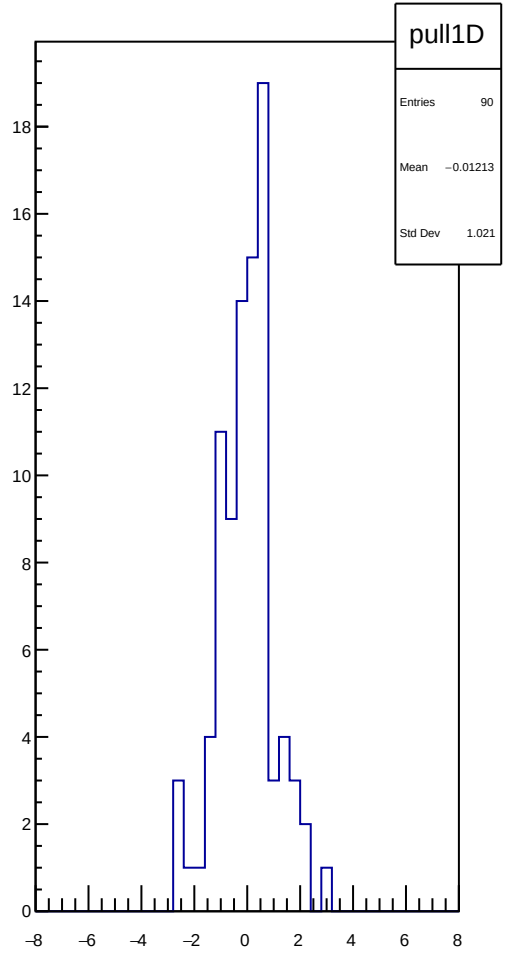

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.738e+05 / 89
p0 3.557e−11 ± 3.585e−14
0.25
0.2
0.15
0.1
0.05

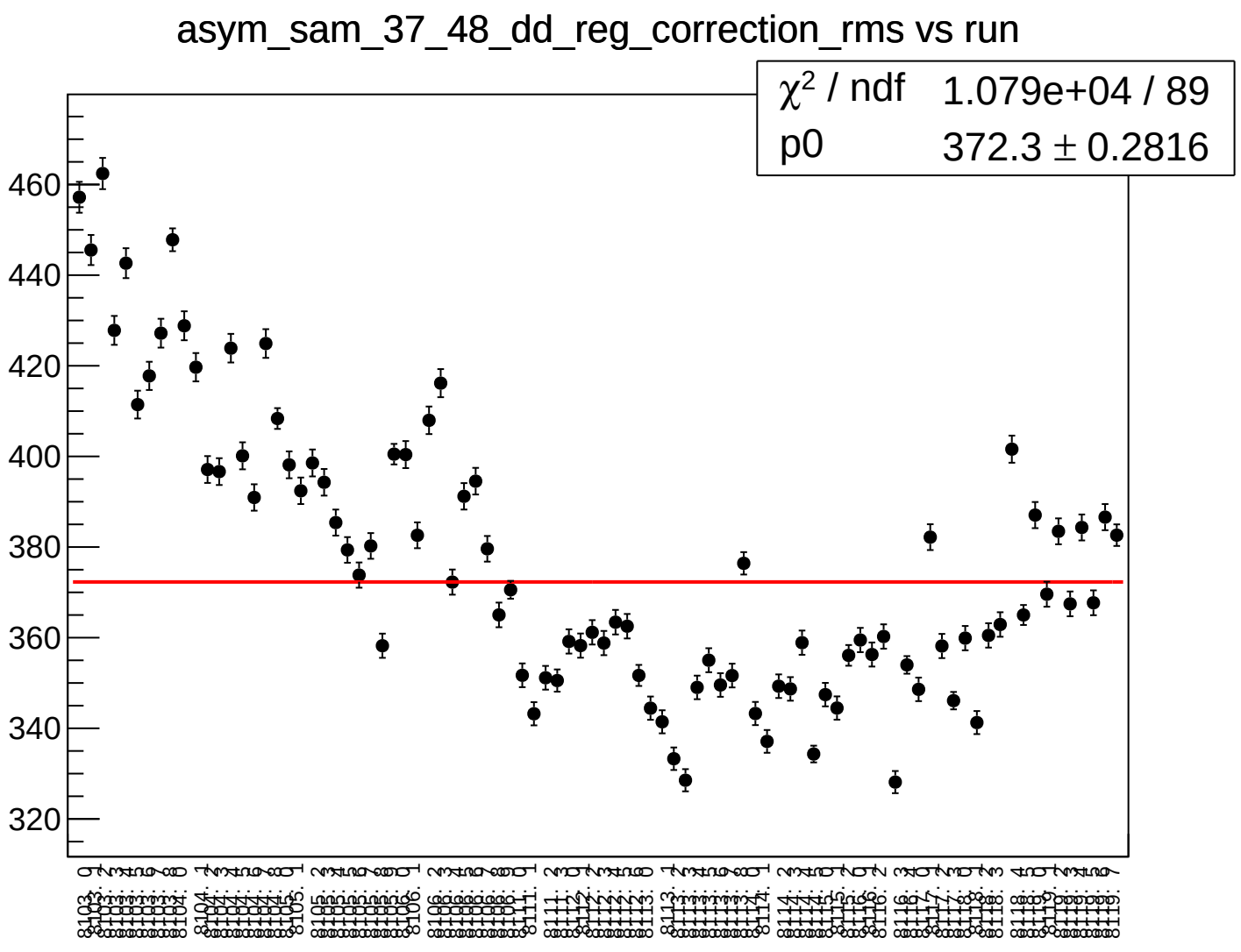

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 103.1 / 89
p0 −111.6 ± 64.65
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 43.31
Std Dev 42.06
3
2
1
0
−1
−2
−3

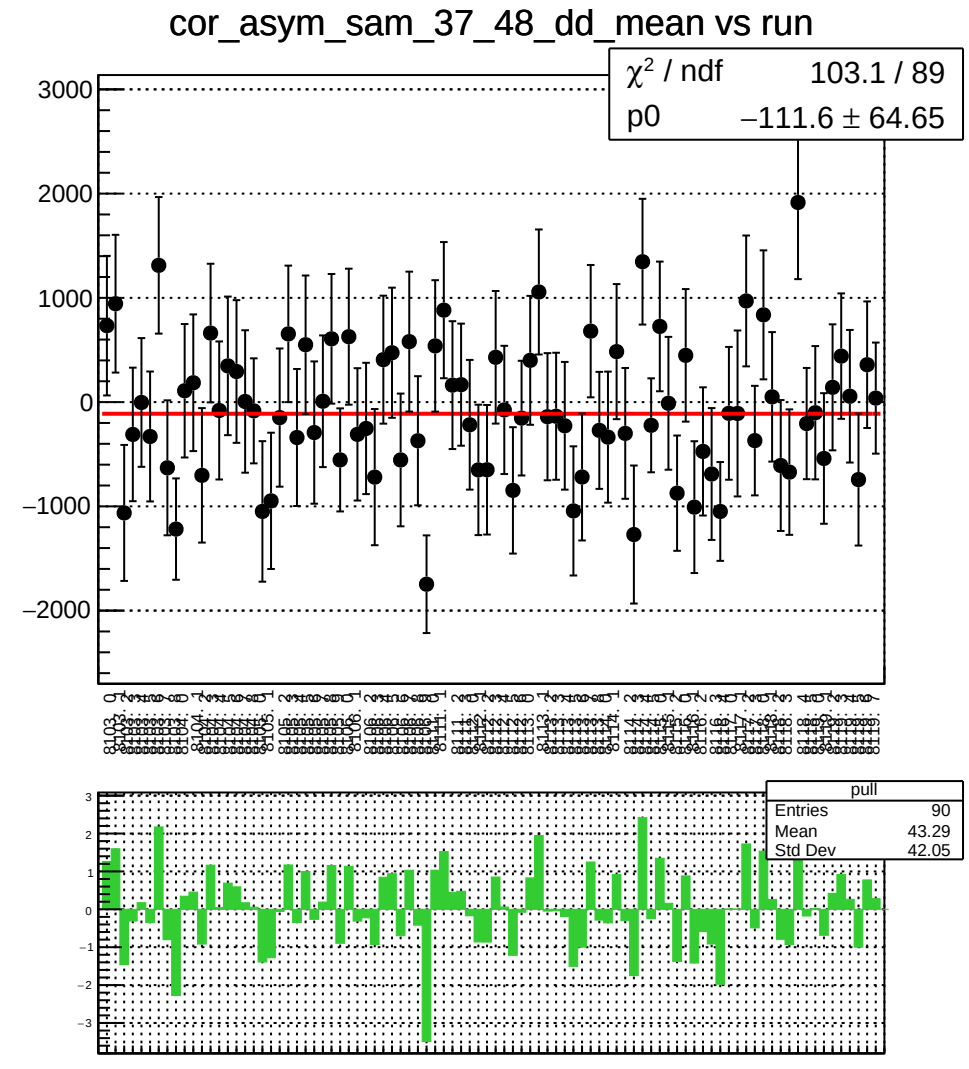

pull1D
Entries 90
Mean 0.0403
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

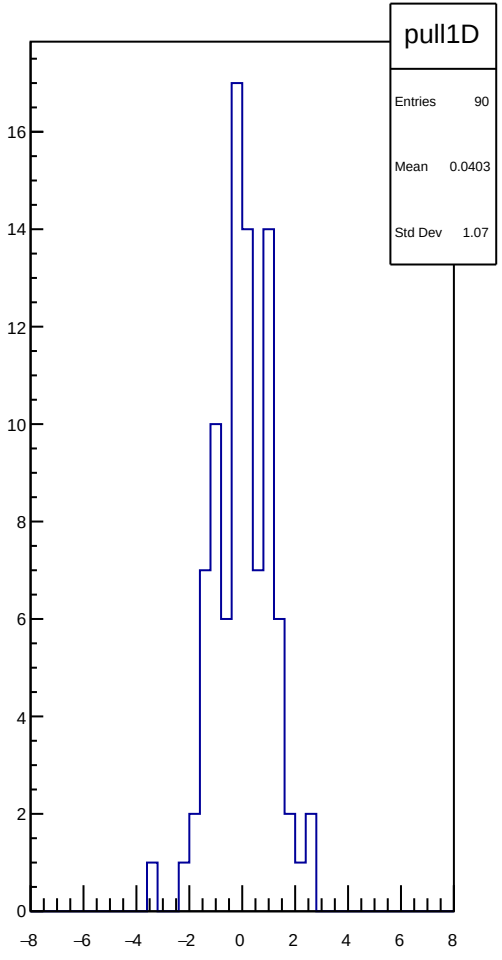

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 3126 / 89
p0 60.57 ± 0.04571
75
70
65
60
55

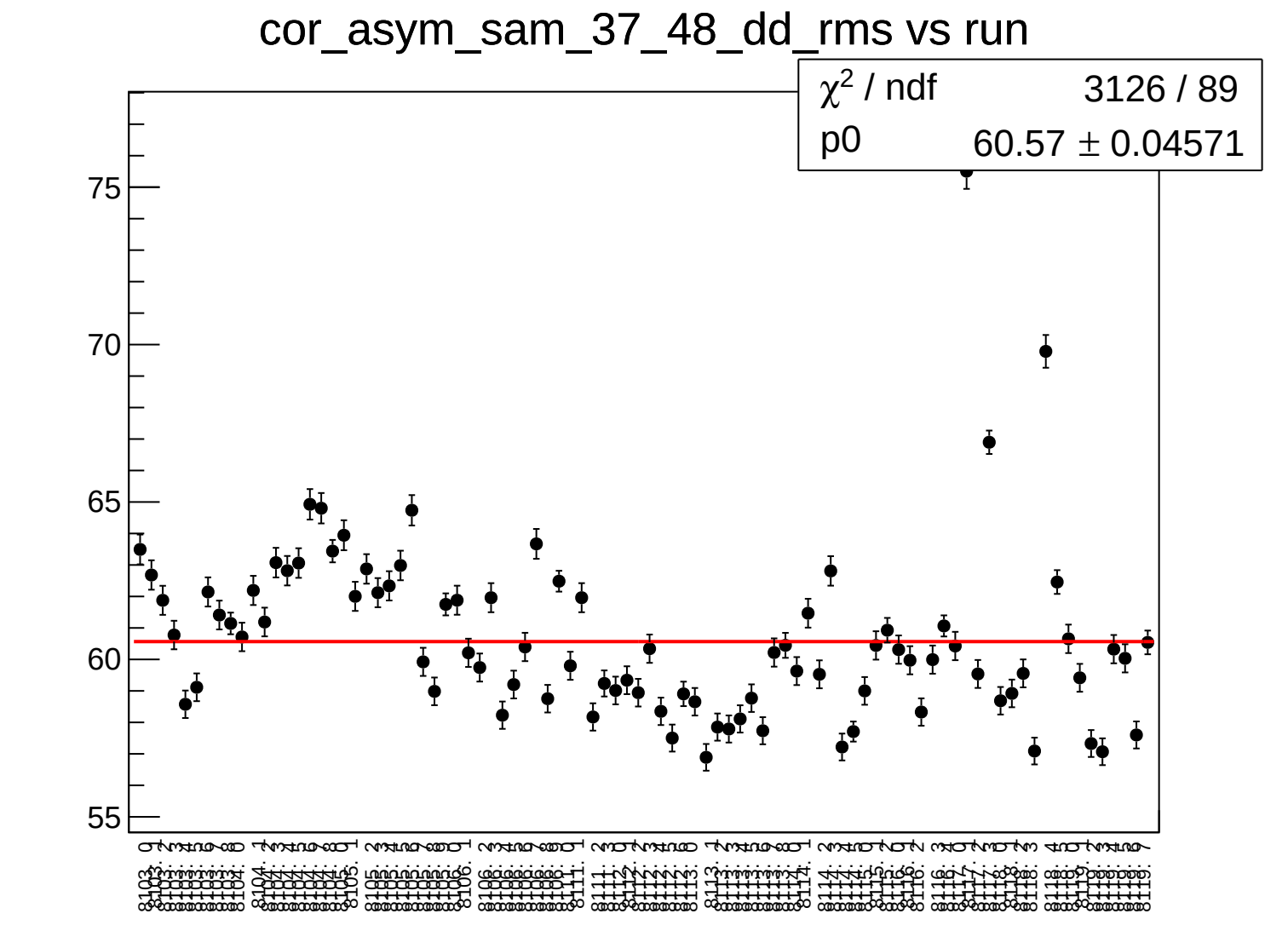

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 93.88 / 89
p0 80.44 ± 398.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −159.6
Std Dev 0
3
2
1
0
−1
−2

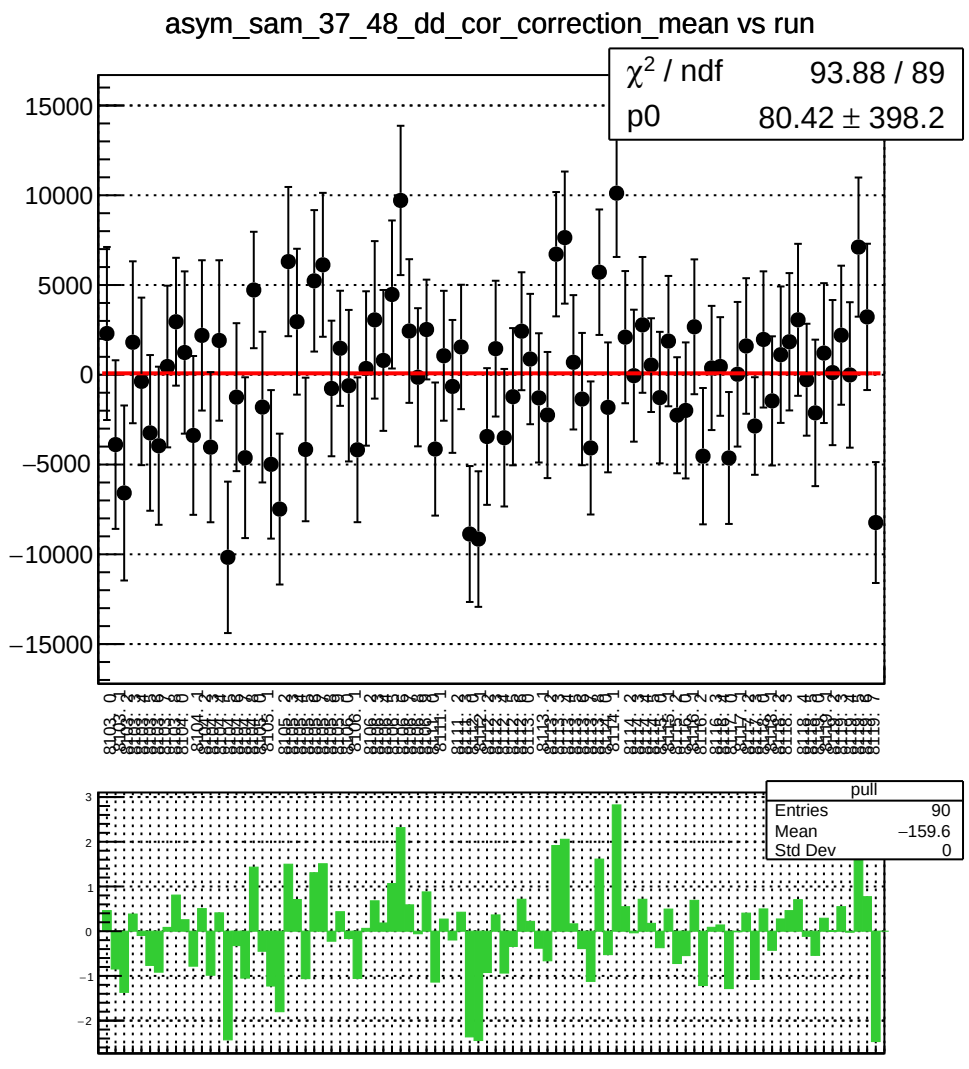

pull1D
Entries 90
Mean −0.01213
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

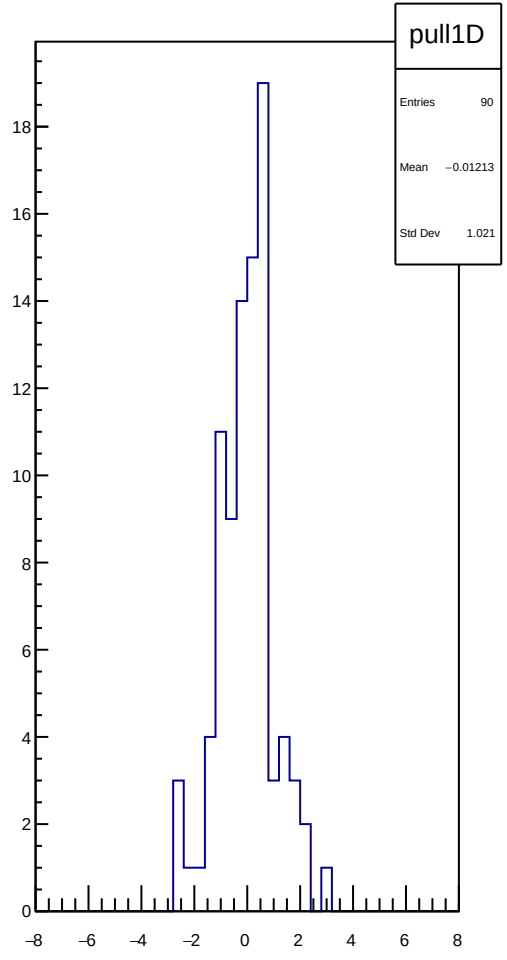

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.079e+04 / 89
p0 372.3 ± 0.2816
460
440
420
400
380
360
340
320

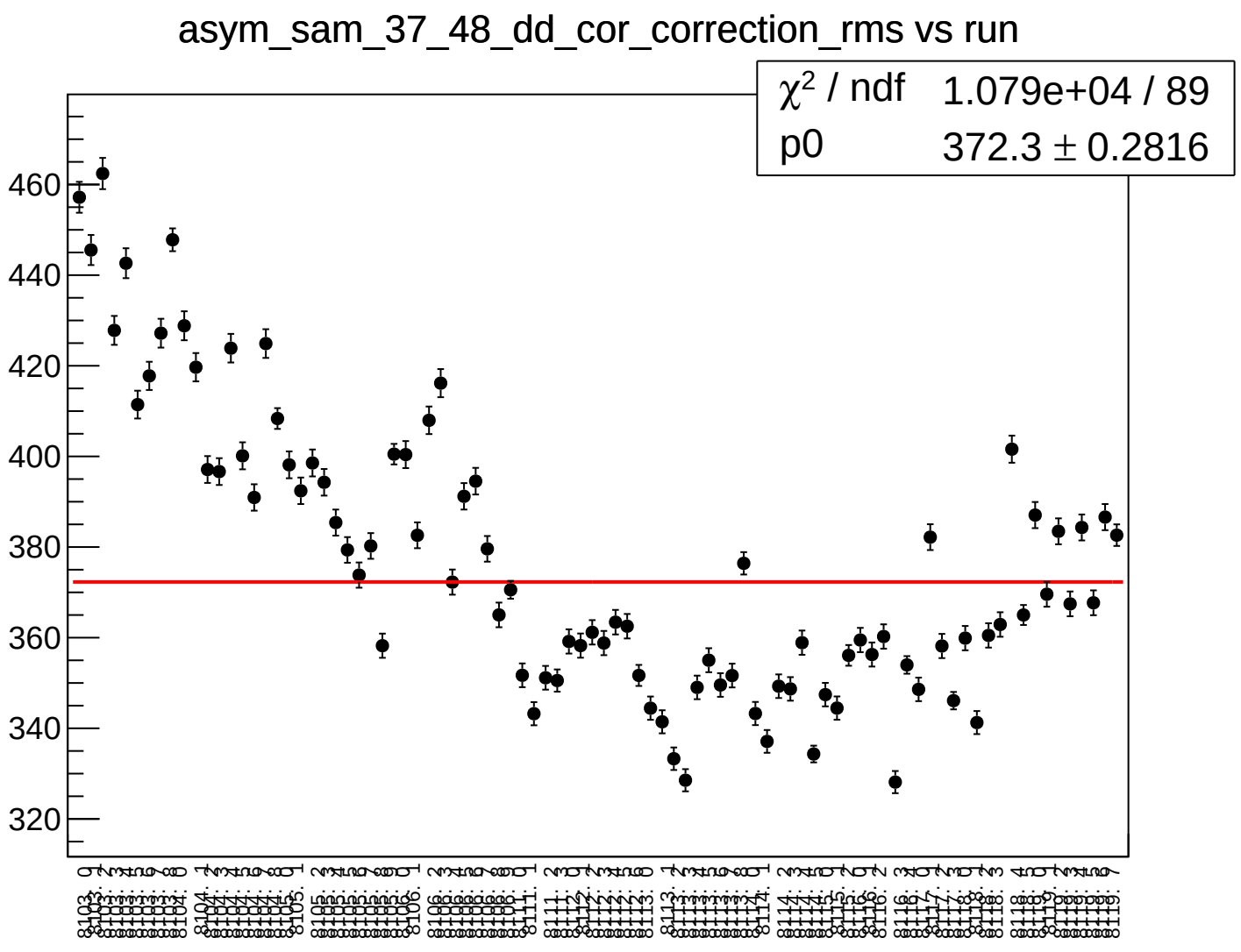

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 103.1 / 89
p0 −111.6 ± 64.65
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 43.29
Std Dev 42.05
3
2
1
0
−1
−2
−3

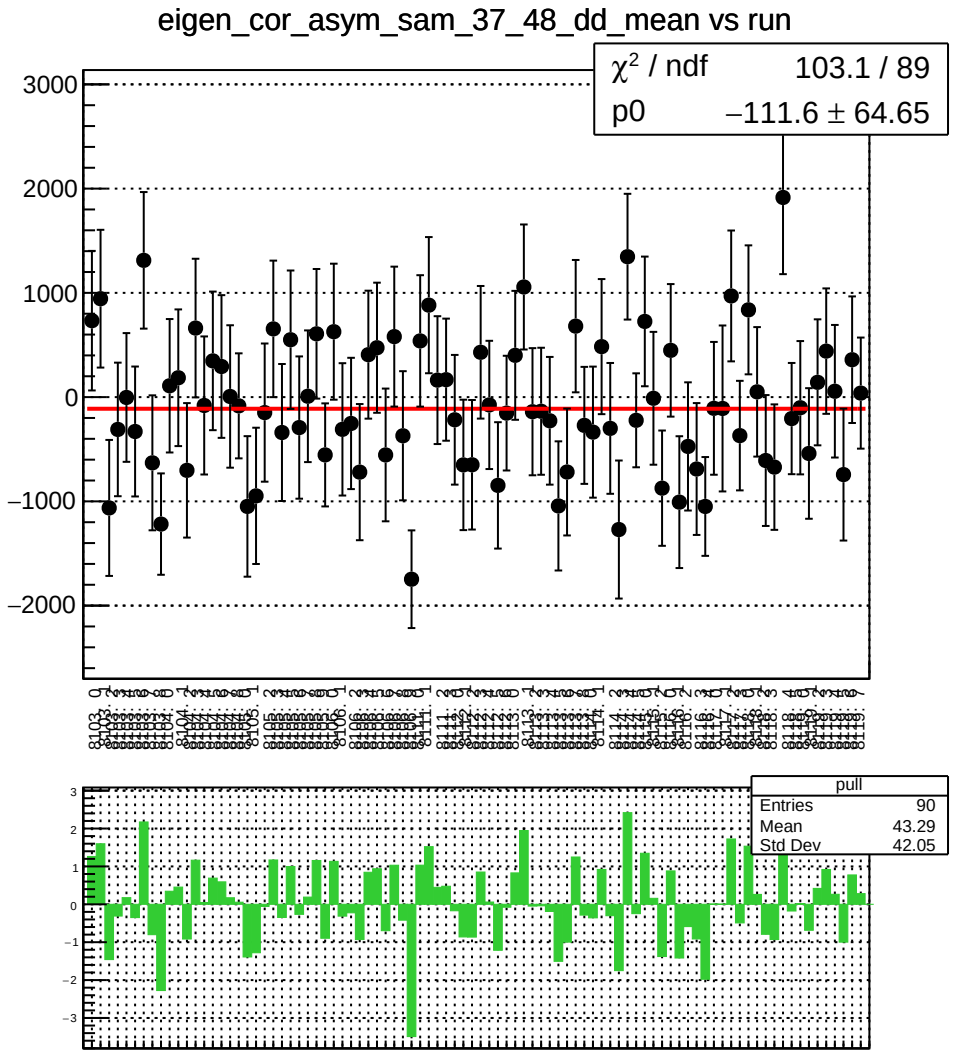

pull1D
Entries 90
Mean 0.0403
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

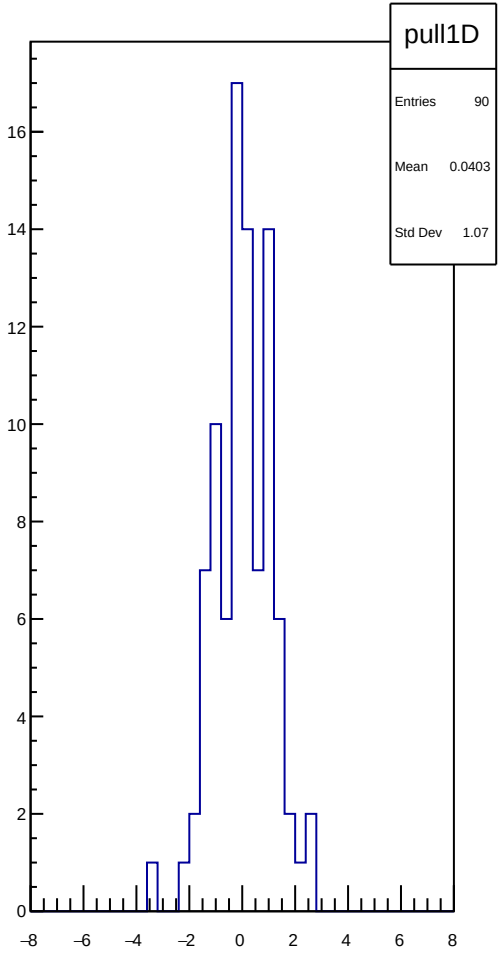

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3126 / 89
p0 60.57 ± 0.04571
75
70
65
60
55

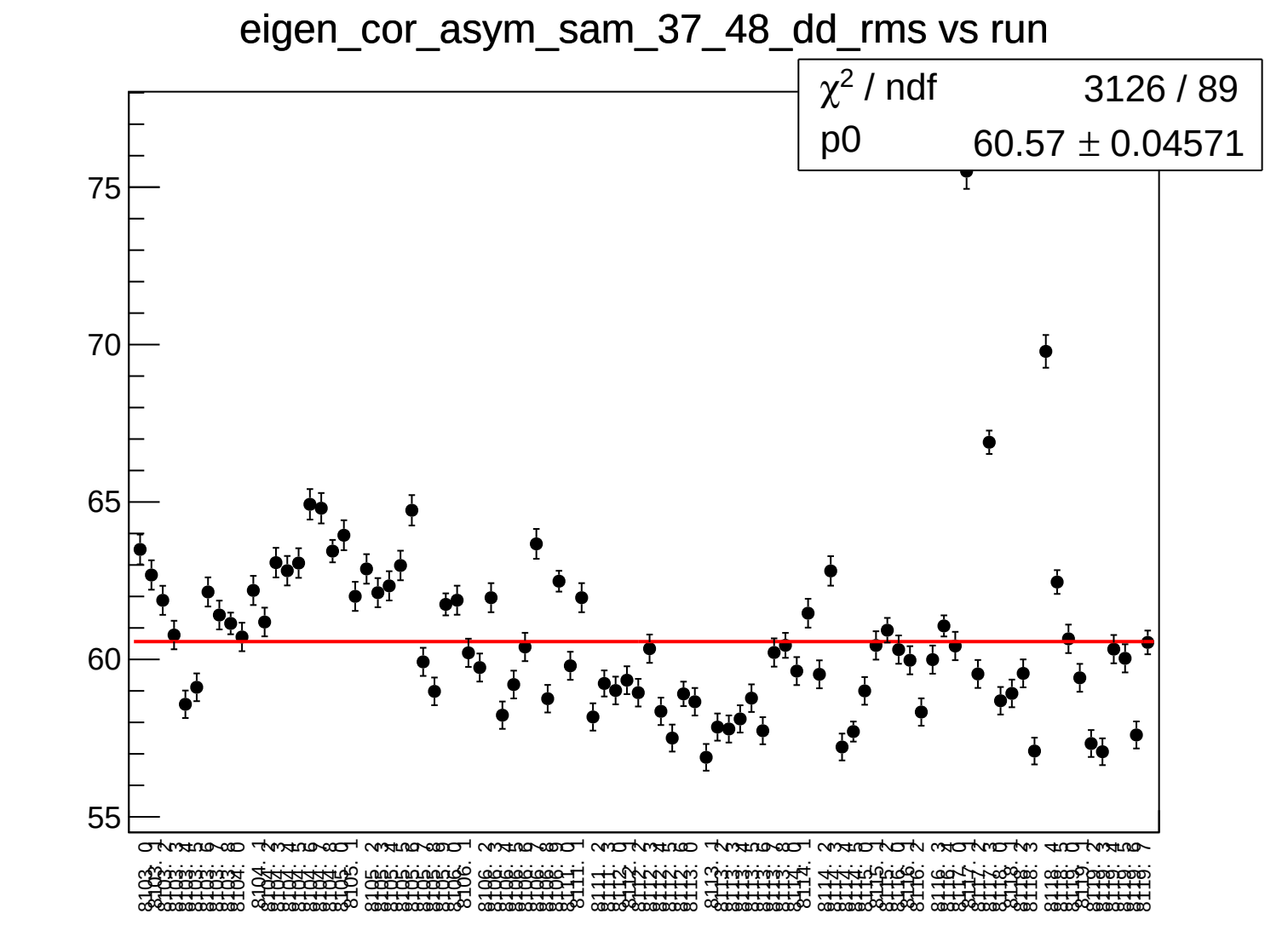

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 93.88 / 89
p0 80.42 ± 398.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −159.6
Std Dev 0
3
2
1
0
−1
−2

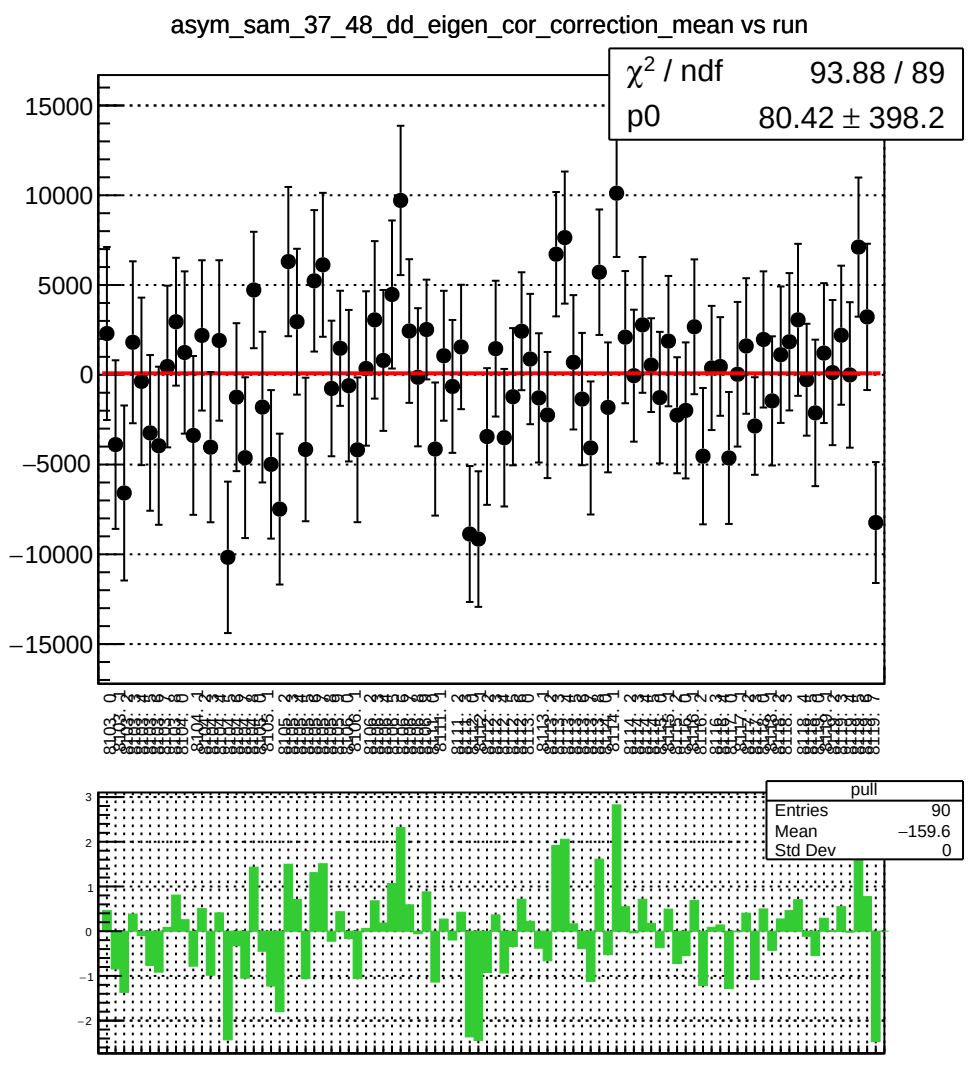

pull1D
Entries 90
Mean −0.01213
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

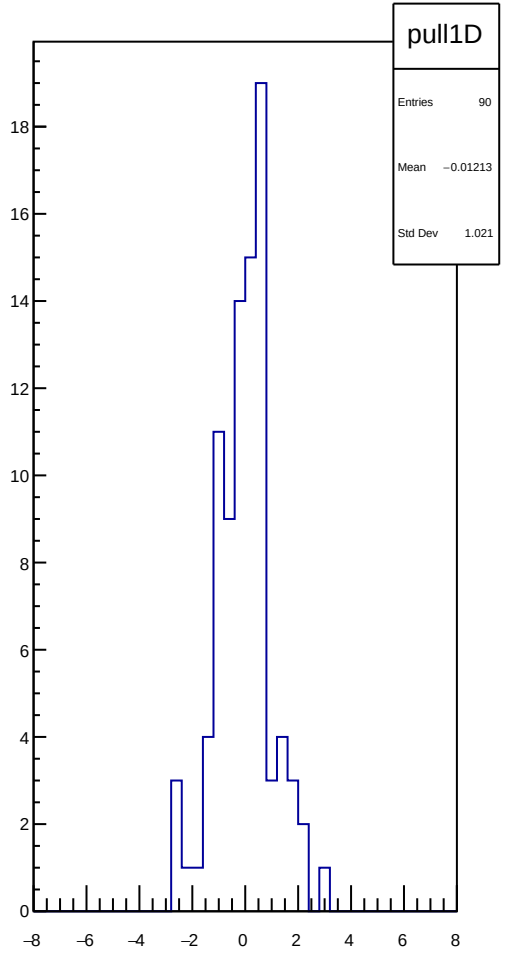

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.079e+04 / 89
p0 372.3 ± 0.2816
460
440
420
400
380
360
340
320

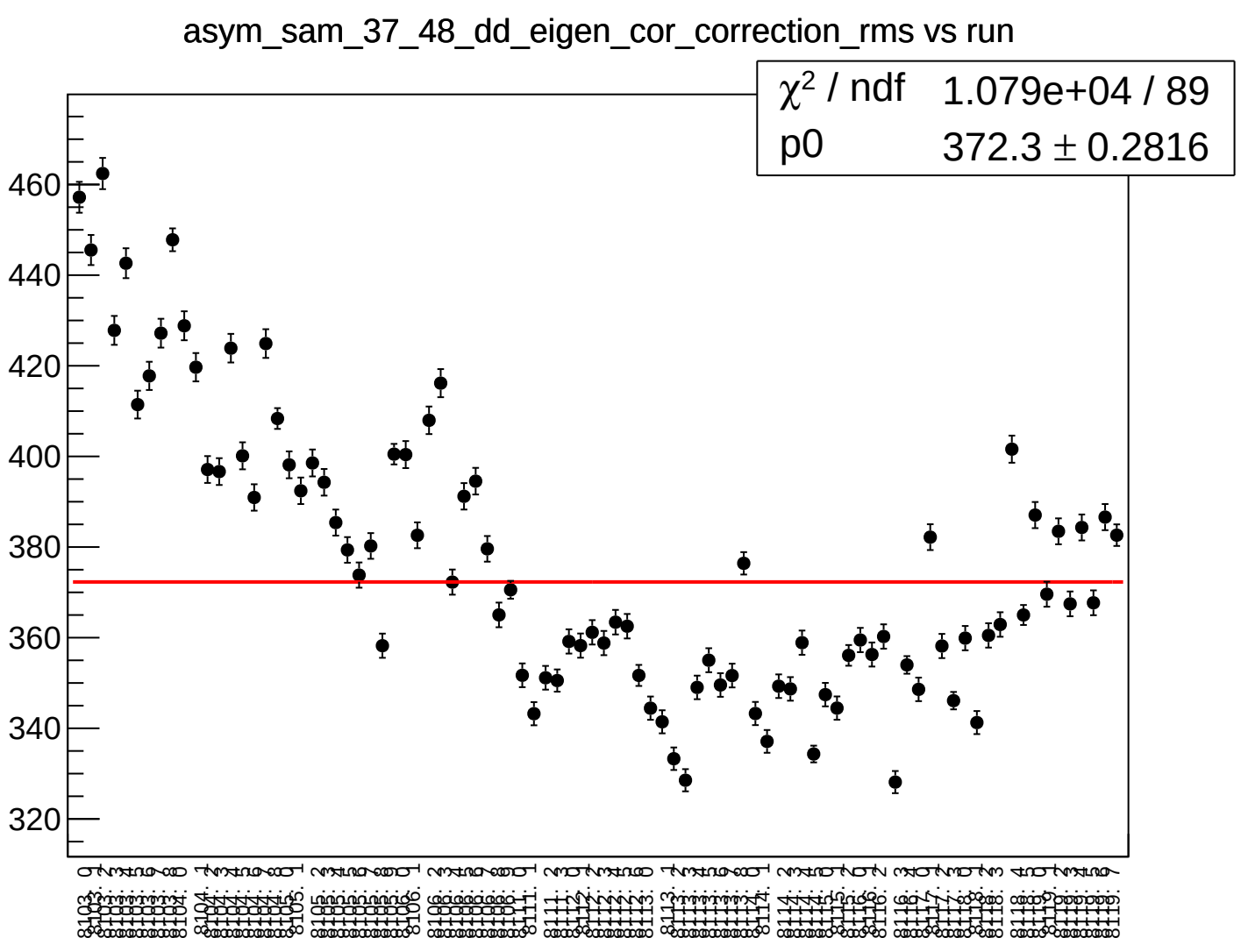

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 103.1 / 89
p0 −111.6 ± 64.65
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 43.29
Std Dev 42.05
3
2
1
0
−1
−2
−3

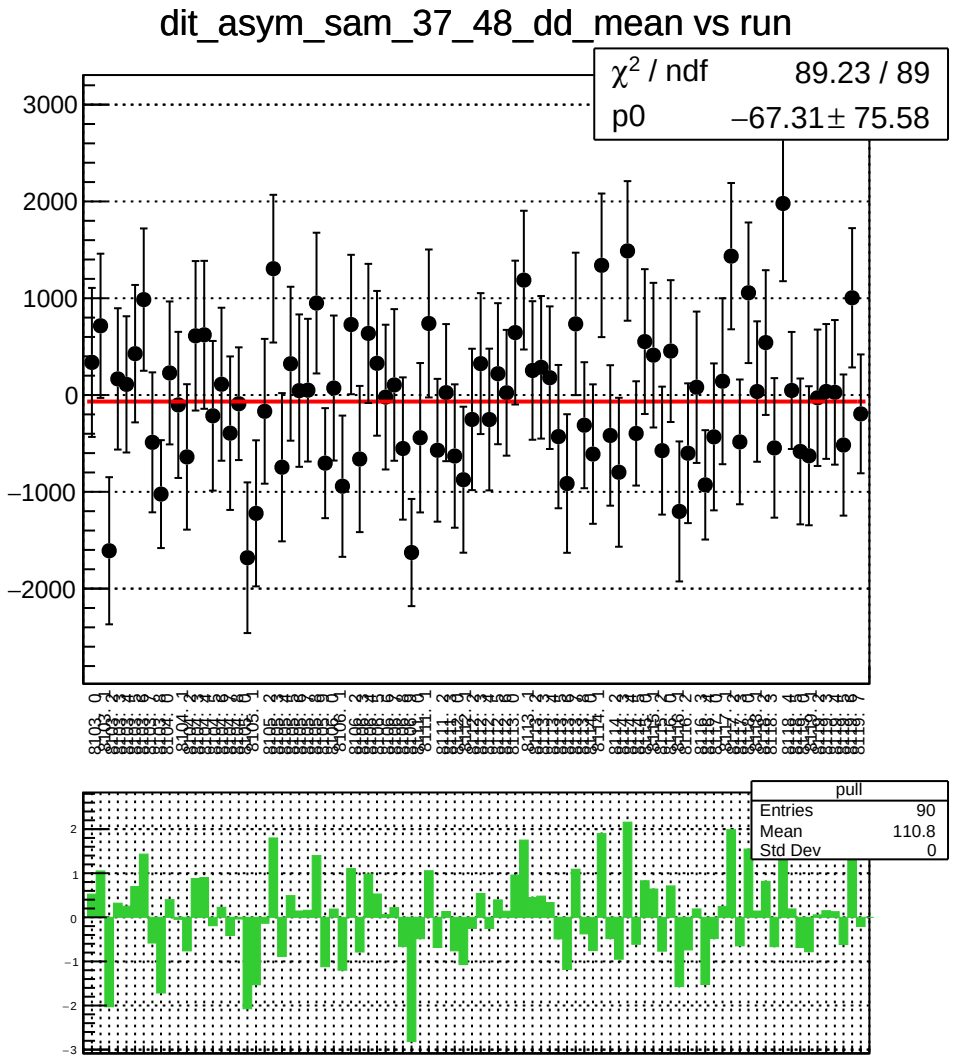

pull1D
Entries 90
Mean 0.0403
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

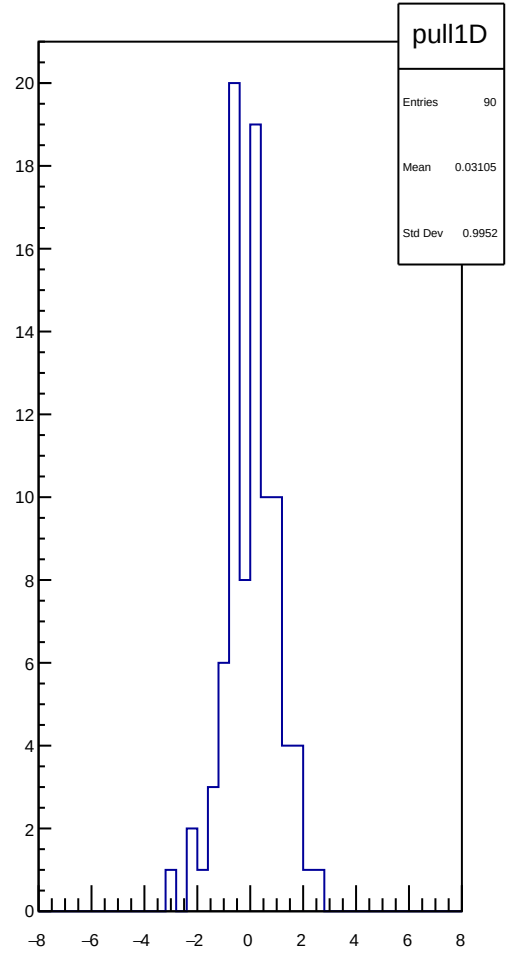

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3126 / 89
p0 60.57 ± 0.04571
75
70
65
60
55

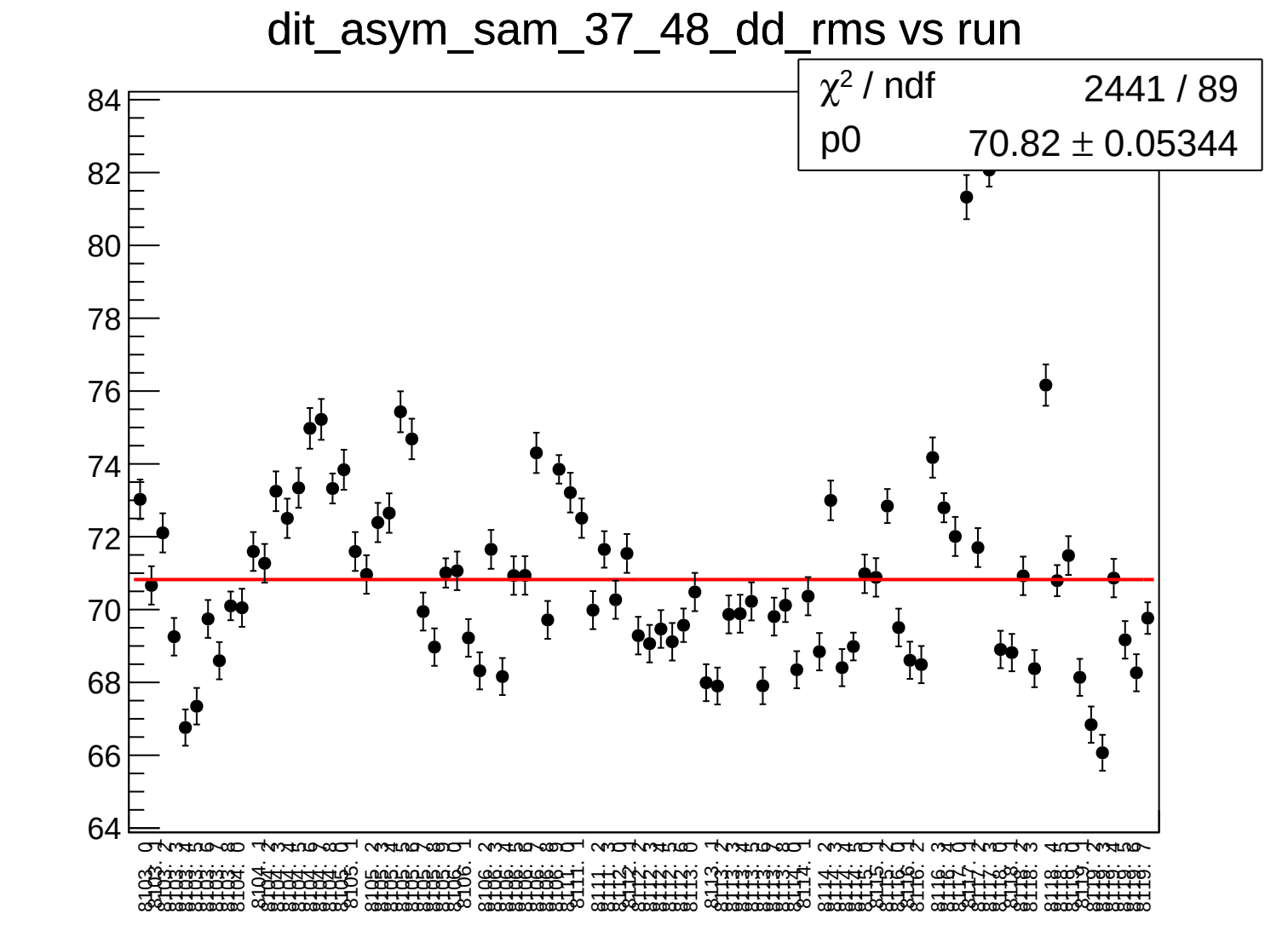

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.88 / 89
p0 80.42 ± 398.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −159.6
Std Dev 0
3
2
1
0
−1
−2

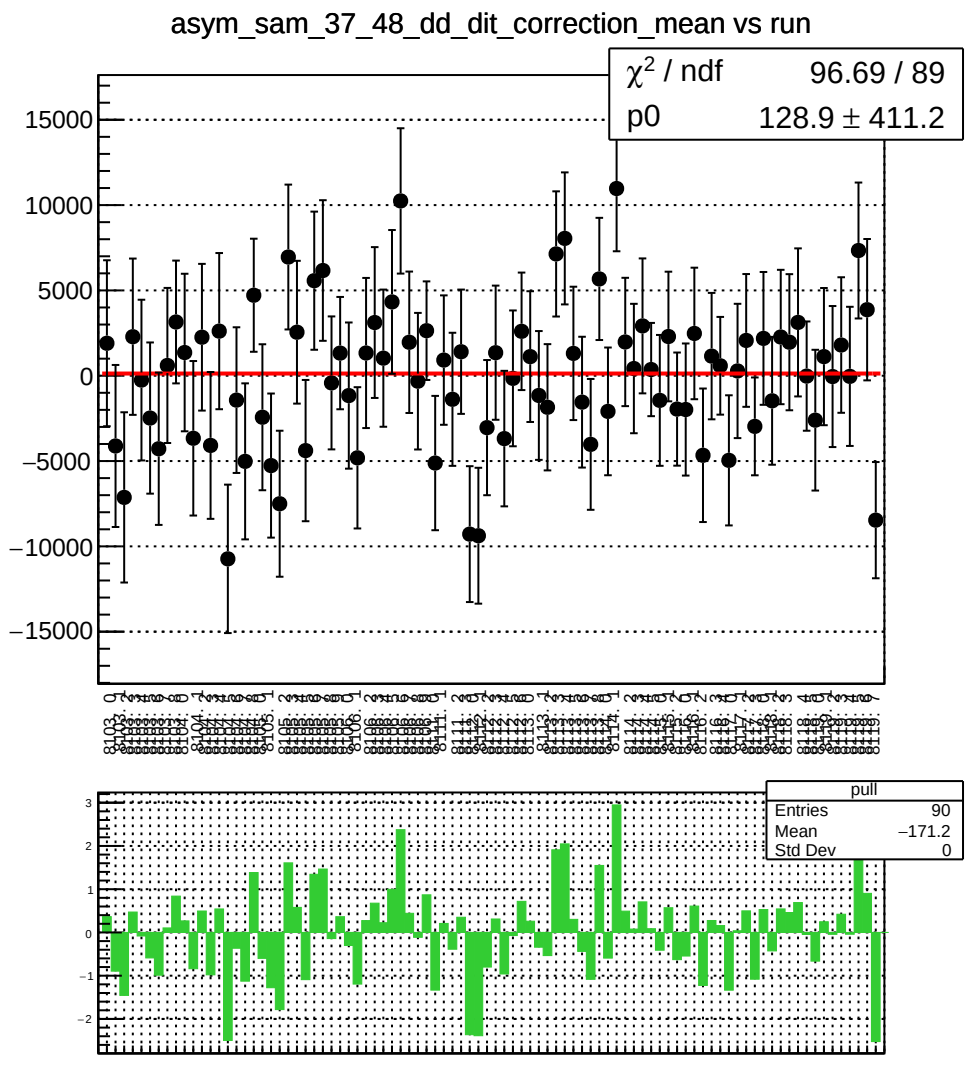

pull1D
Entries 90
Mean −0.01213
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

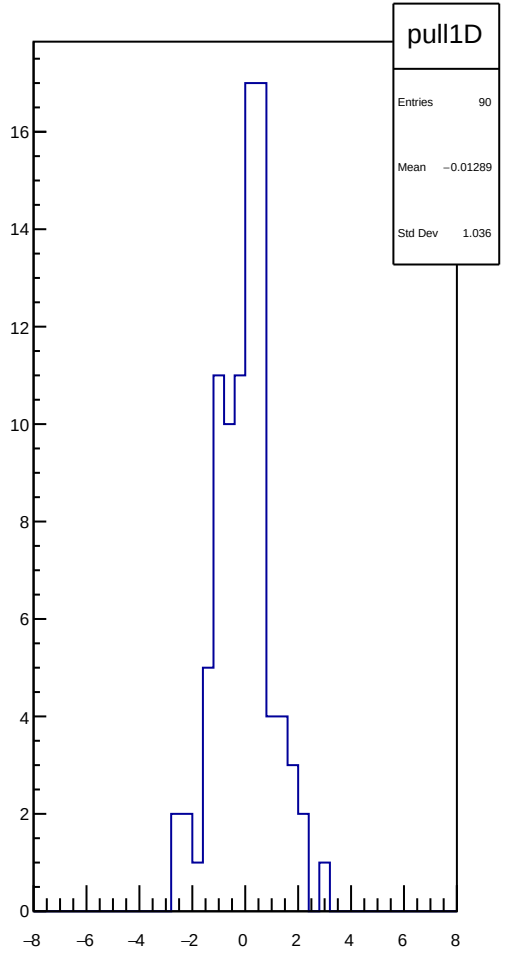

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.079e+04 / 89
p0 372.3 ± 0.2816
460
440
420
400
380
360
340
320

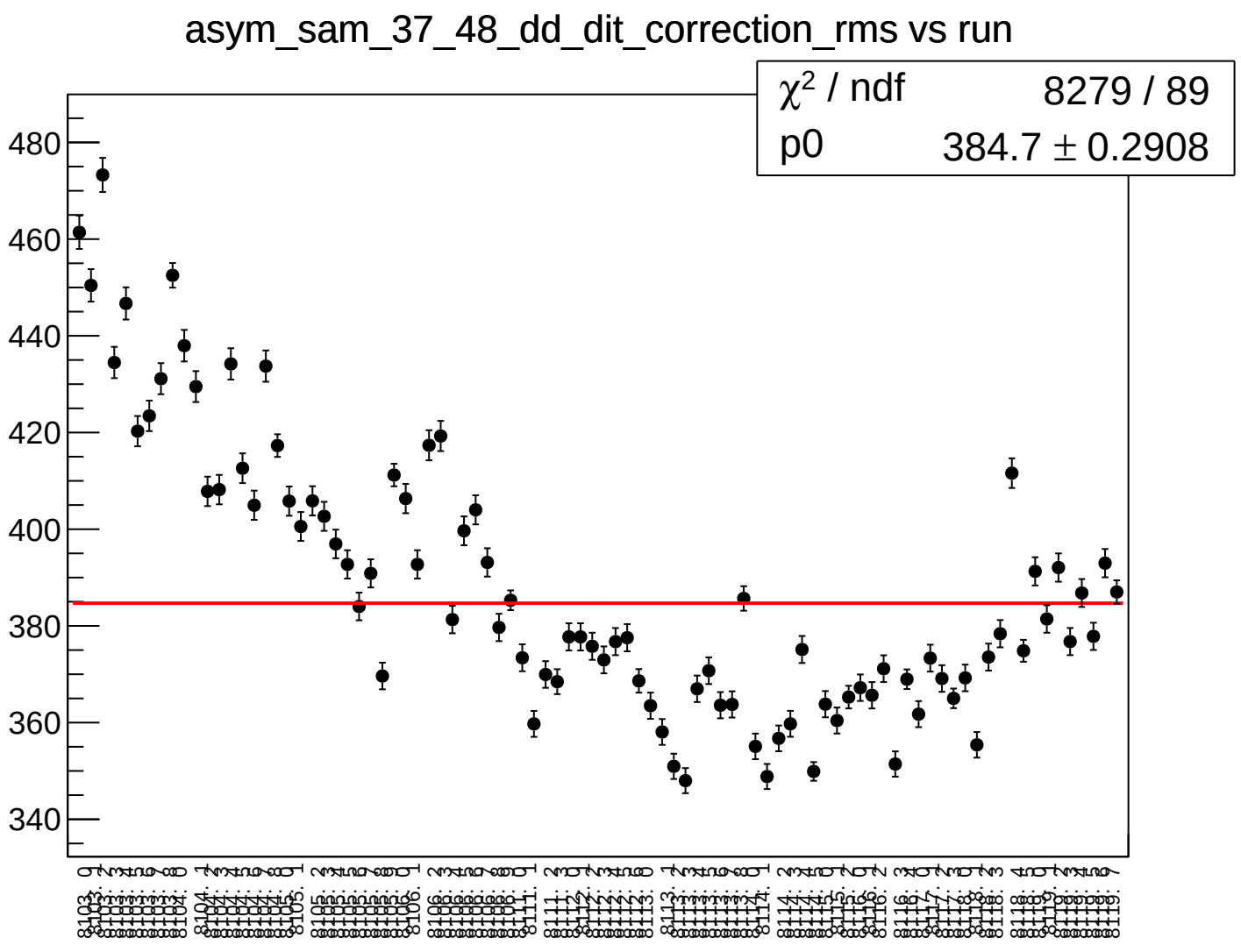

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.23 / 89
p0 −67.31 ± 75.58
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 110.8
Std Dev 0
2
1
0
−1
−2
−3

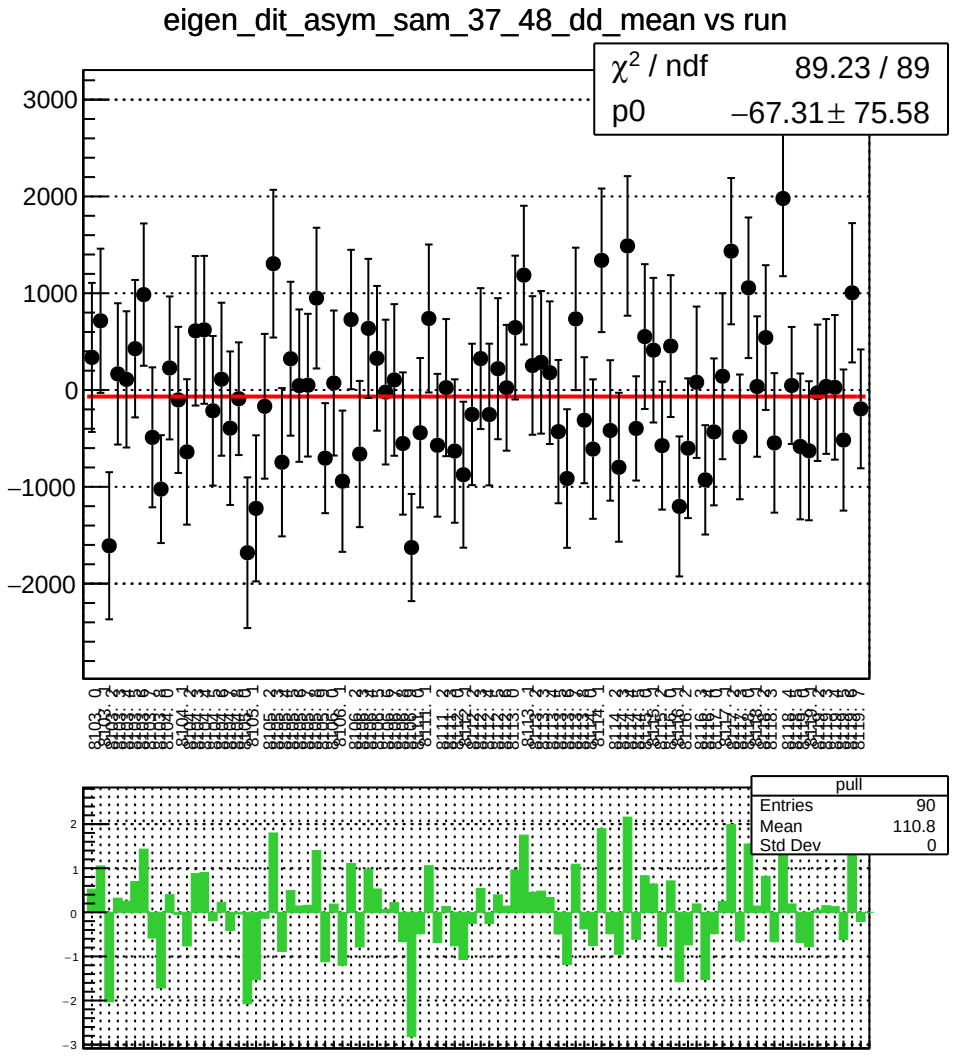

pull1D
Entries 90
Mean 0.03105
Std Dev 0.9952
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

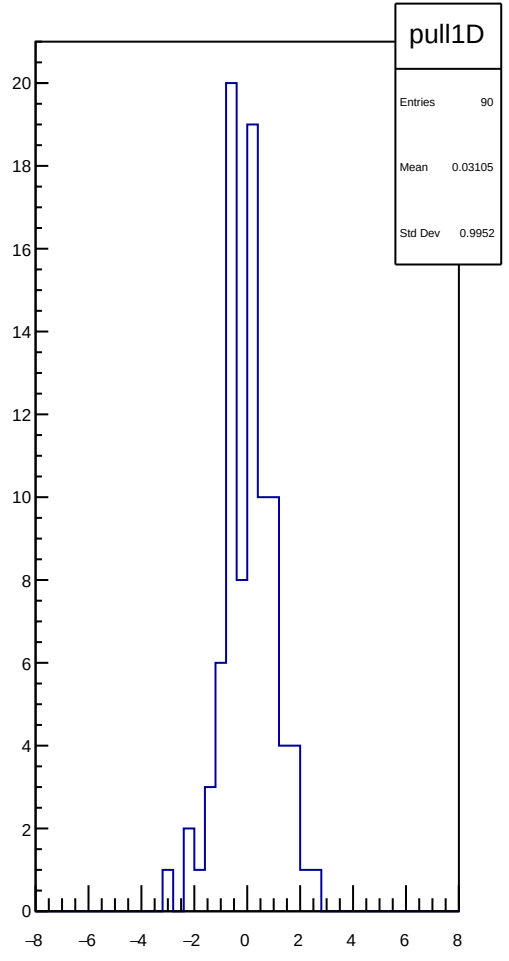

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2441 / 89
p0 70.82 ± 0.05344
84
82
80
78
76
74
72
70
68
66
64

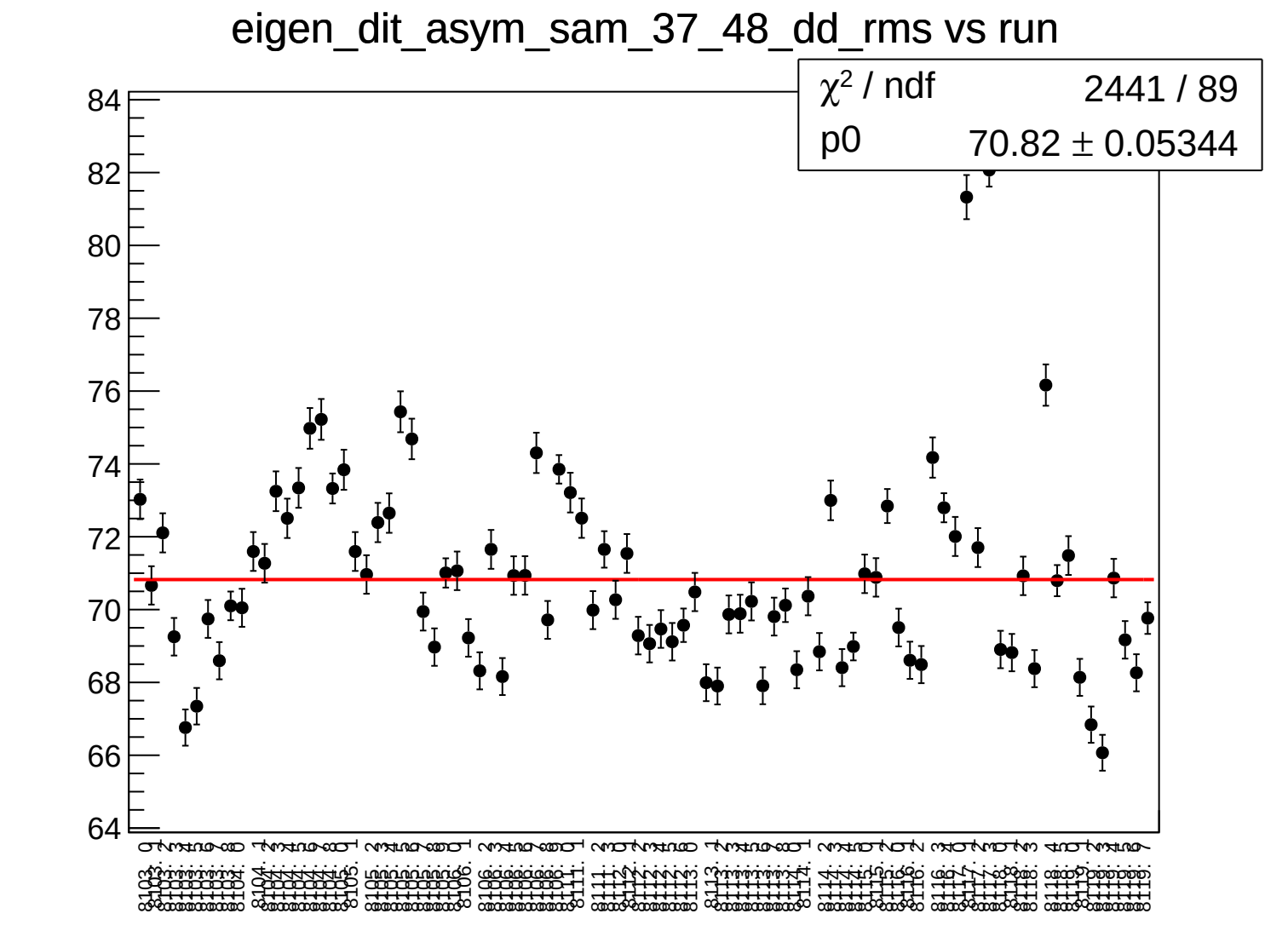

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 96.69 / 89
p0 128.9 ± 411.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −171.2
Std Dev 0
3
2
1
0
−1
−2

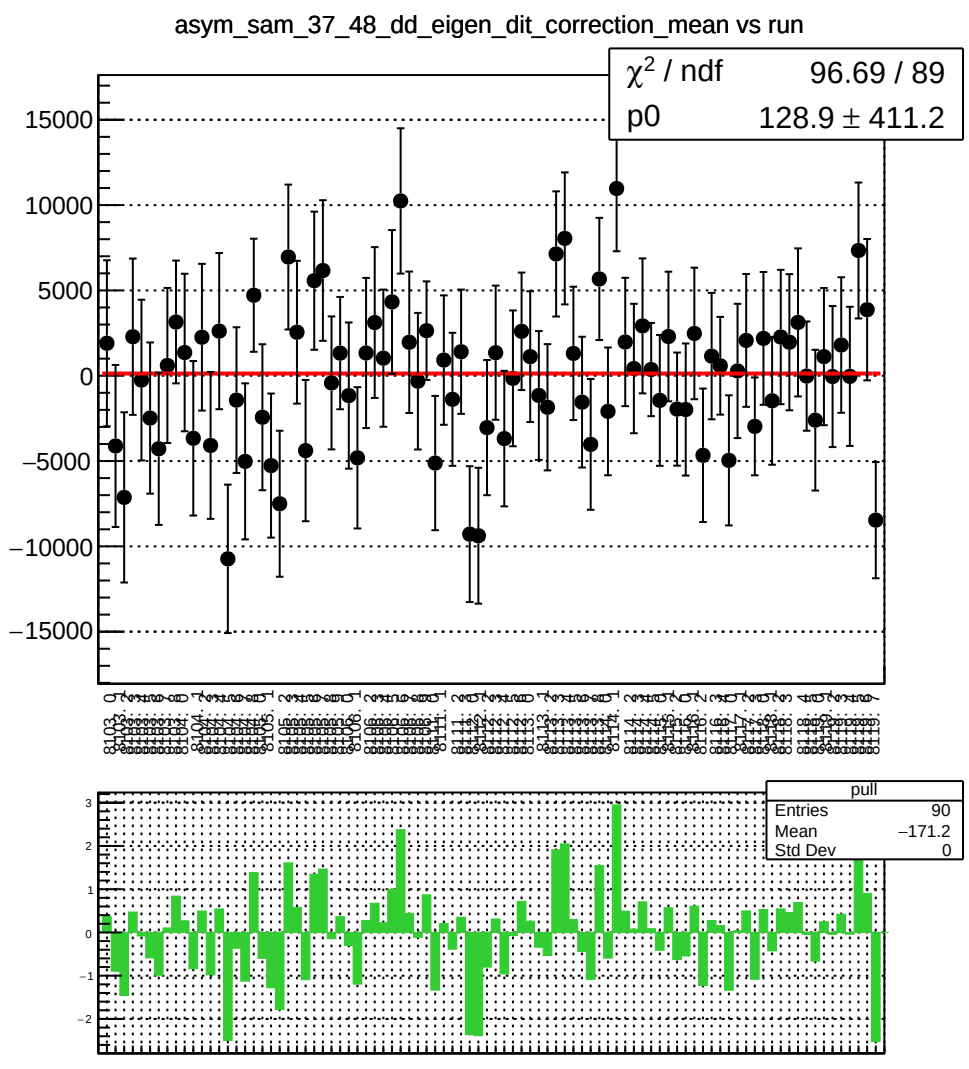

pull1D
Entries 90
Mean −0.01289
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

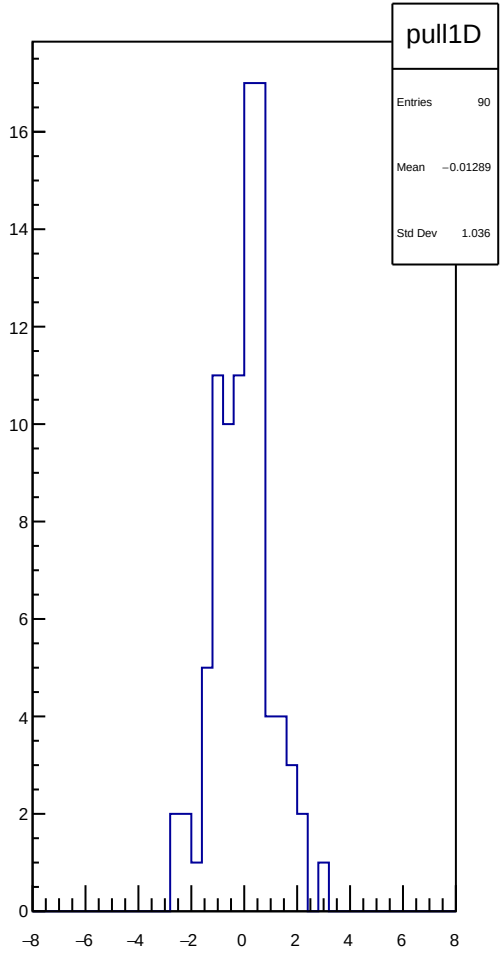

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 8279 / 89
p0 384.7 ± 0.2908
480
460
440
420
400
380
360
340

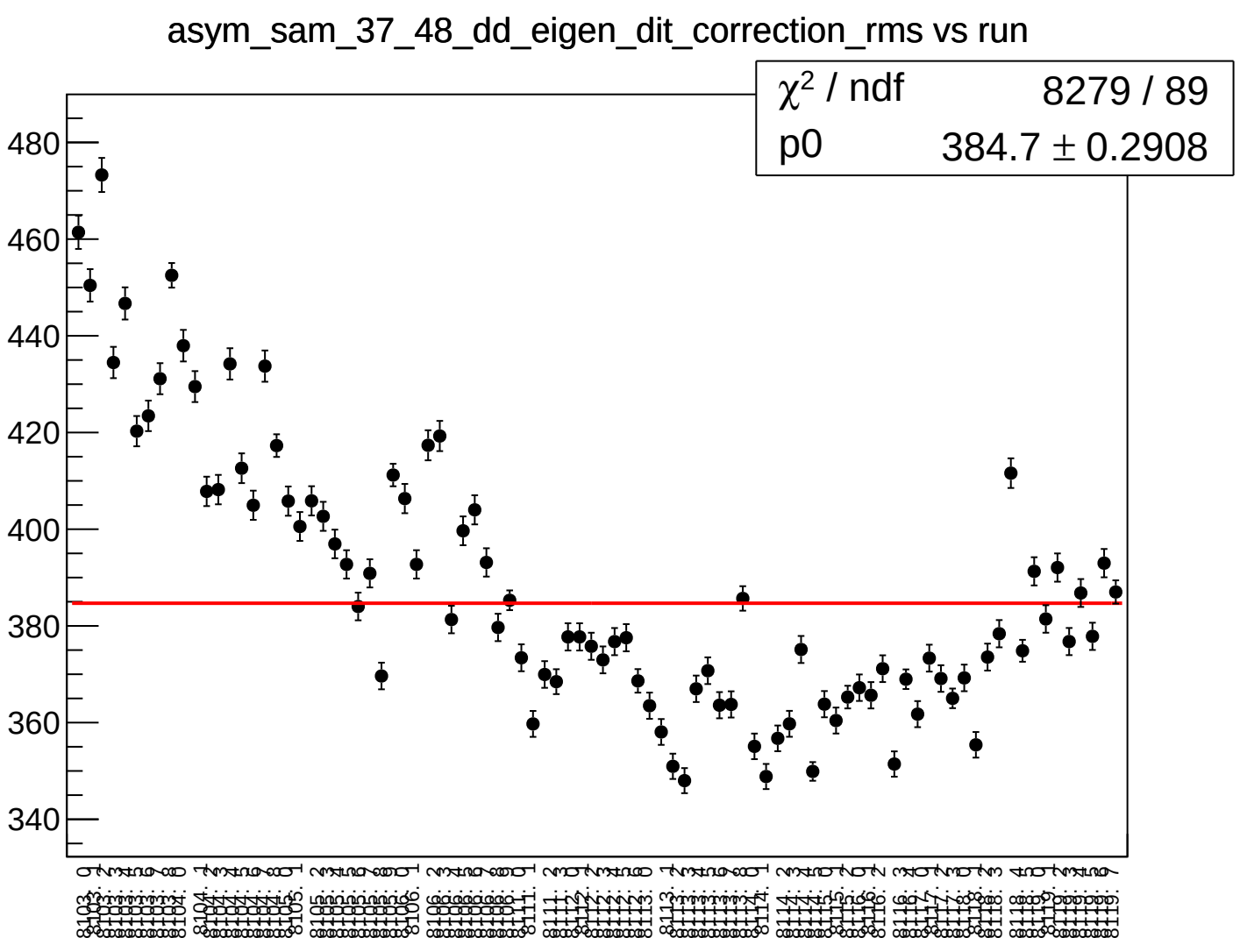

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.23 / 89
p0 −67.31± 75.58
3000
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 110.8
Std Dev 0
2
1
0
−1
−2
−3

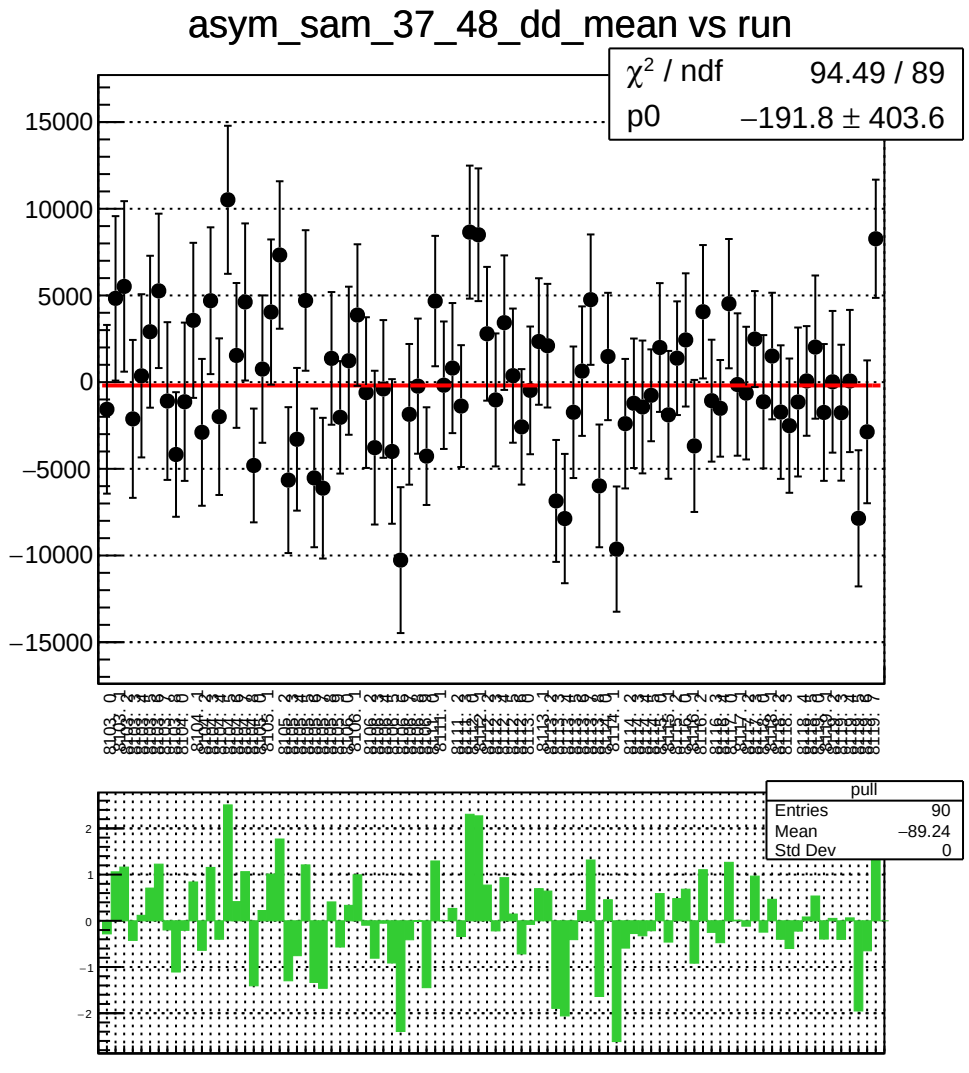

pull1D
Entries 90
Mean 0.03105
Std Dev 0.9952
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

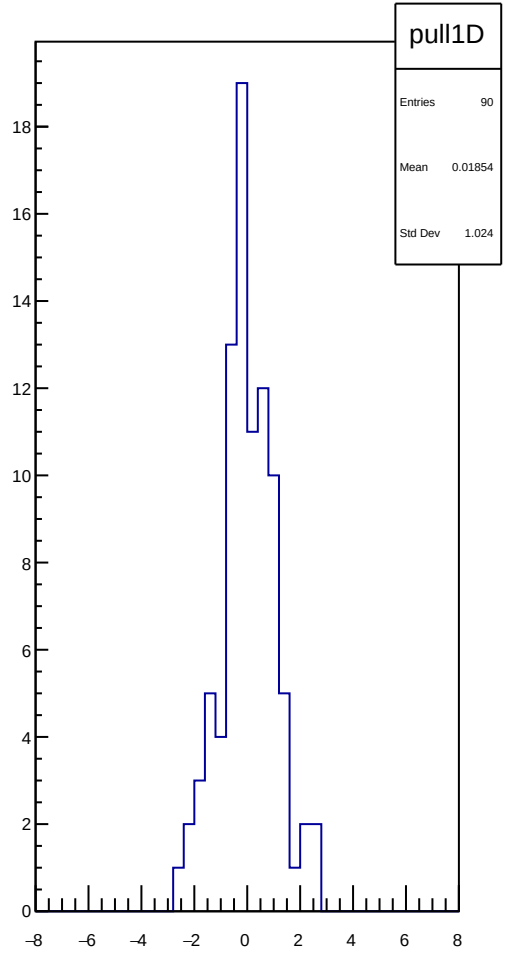

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2441 / 89
p0 70.82 ± 0.05344
84
82
80
78
76
74
72
70
68
66
64

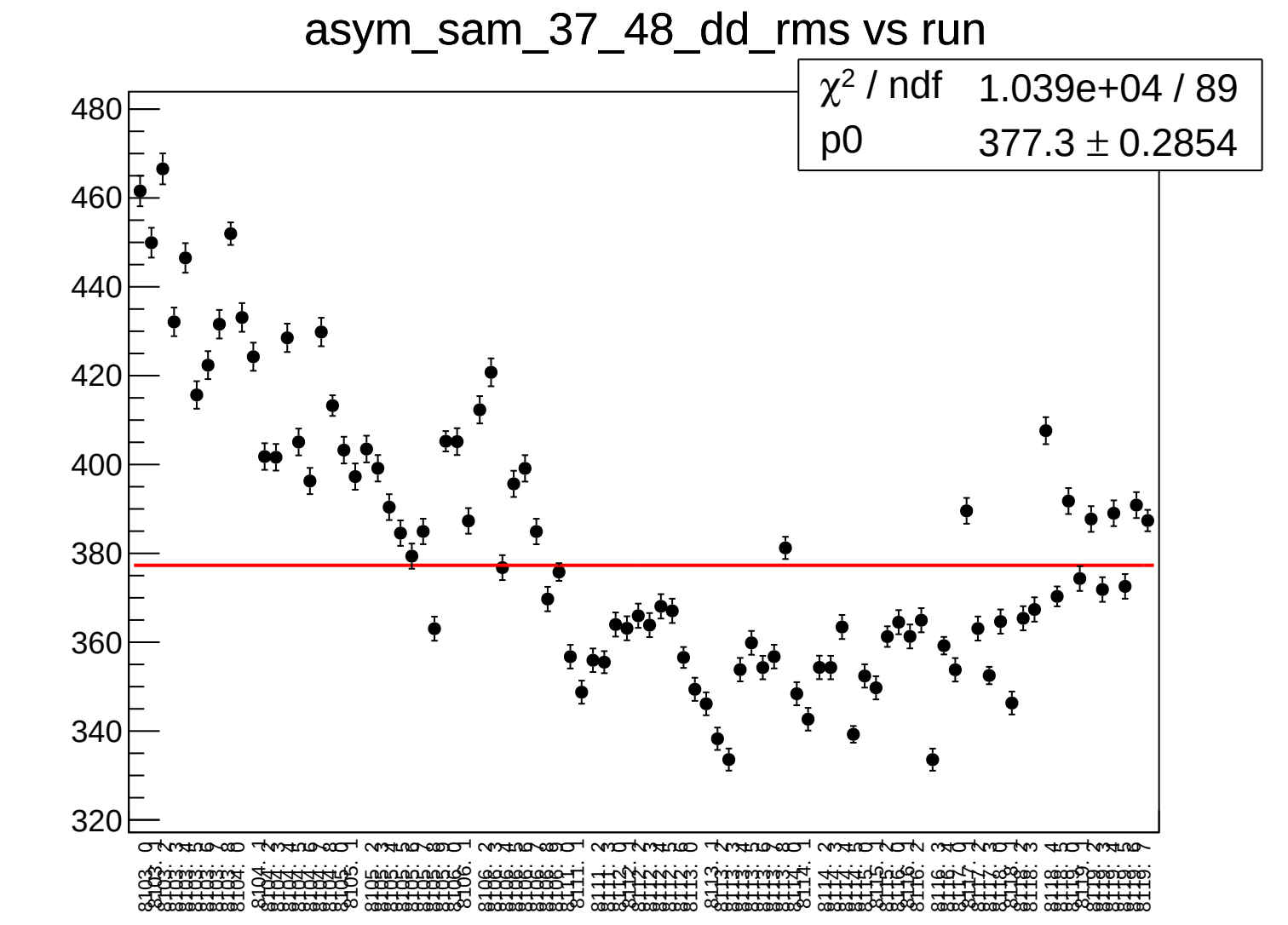

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.69 / 89
p0 128.9 ± 411.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −171.2
Std Dev 0
3
2
1
0
−1
−2

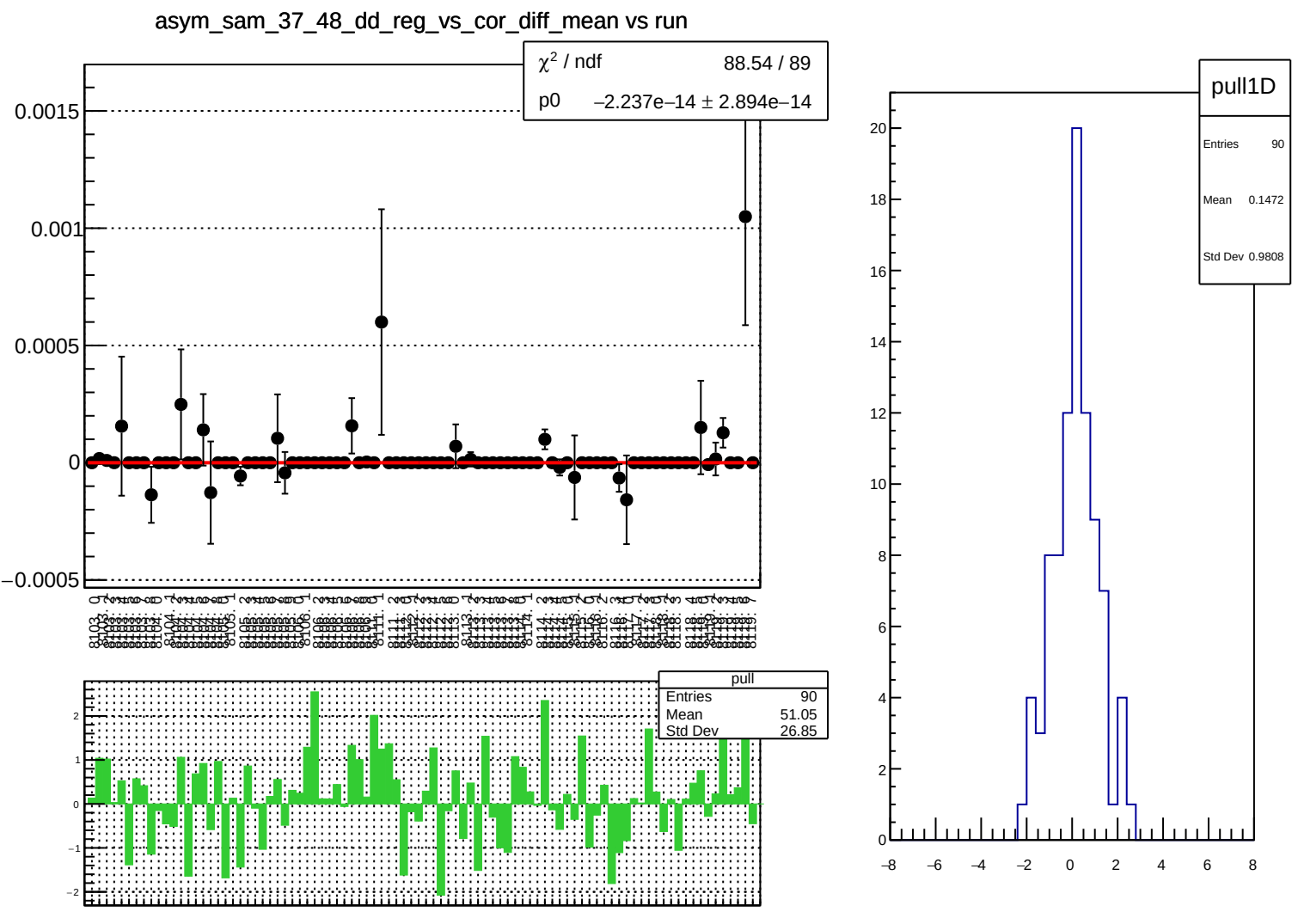

pull1D
Entries 90
Mean −0.01289
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

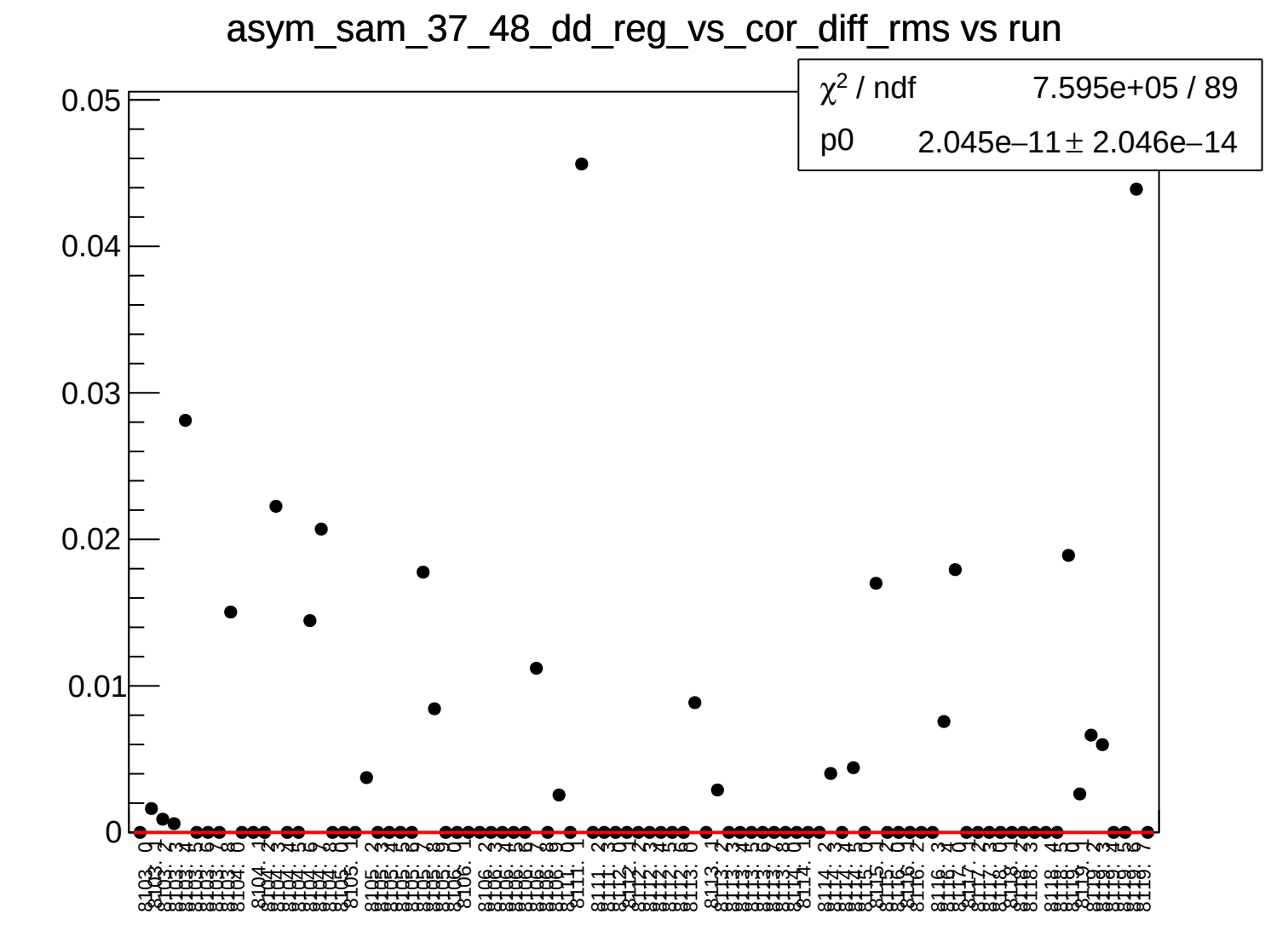

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8279 / 89
p0 384.7 ± 0.2908
480
460
440
420
400
380
360
340

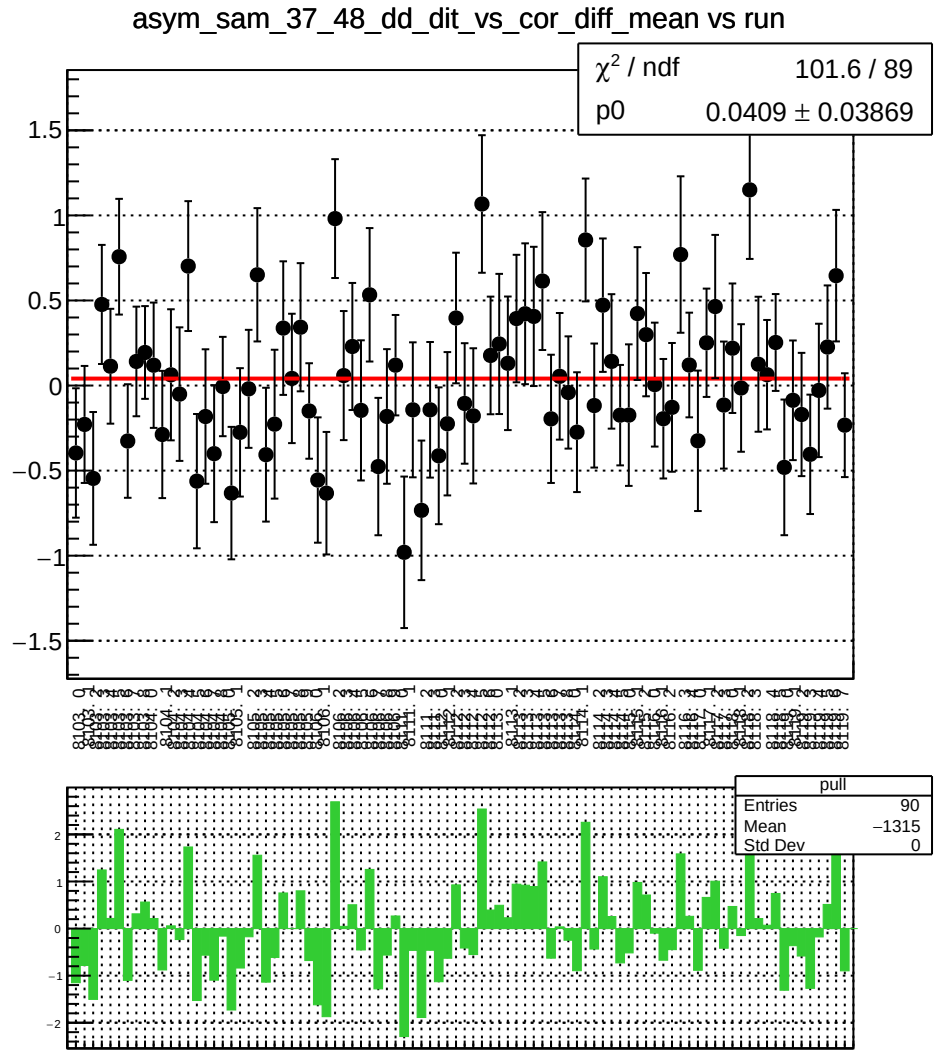

asym_sam_37_48_dd_mean vs run
χ² / ndf 94.49 / 89
p0 −191.8 ± 403.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 90
Mean −89.24
Std Dev 0
2
1
0
−1
−2

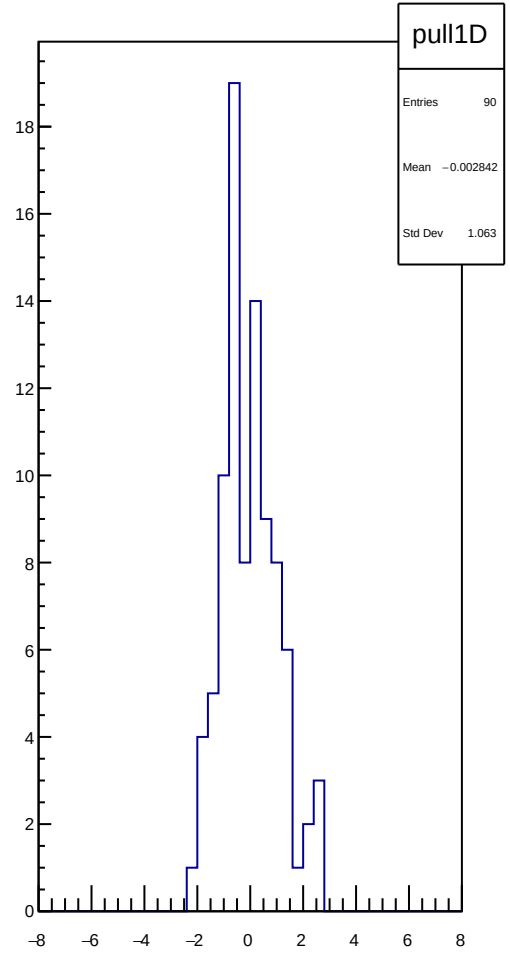

pull1D
Entries 90
Mean 0.01854
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

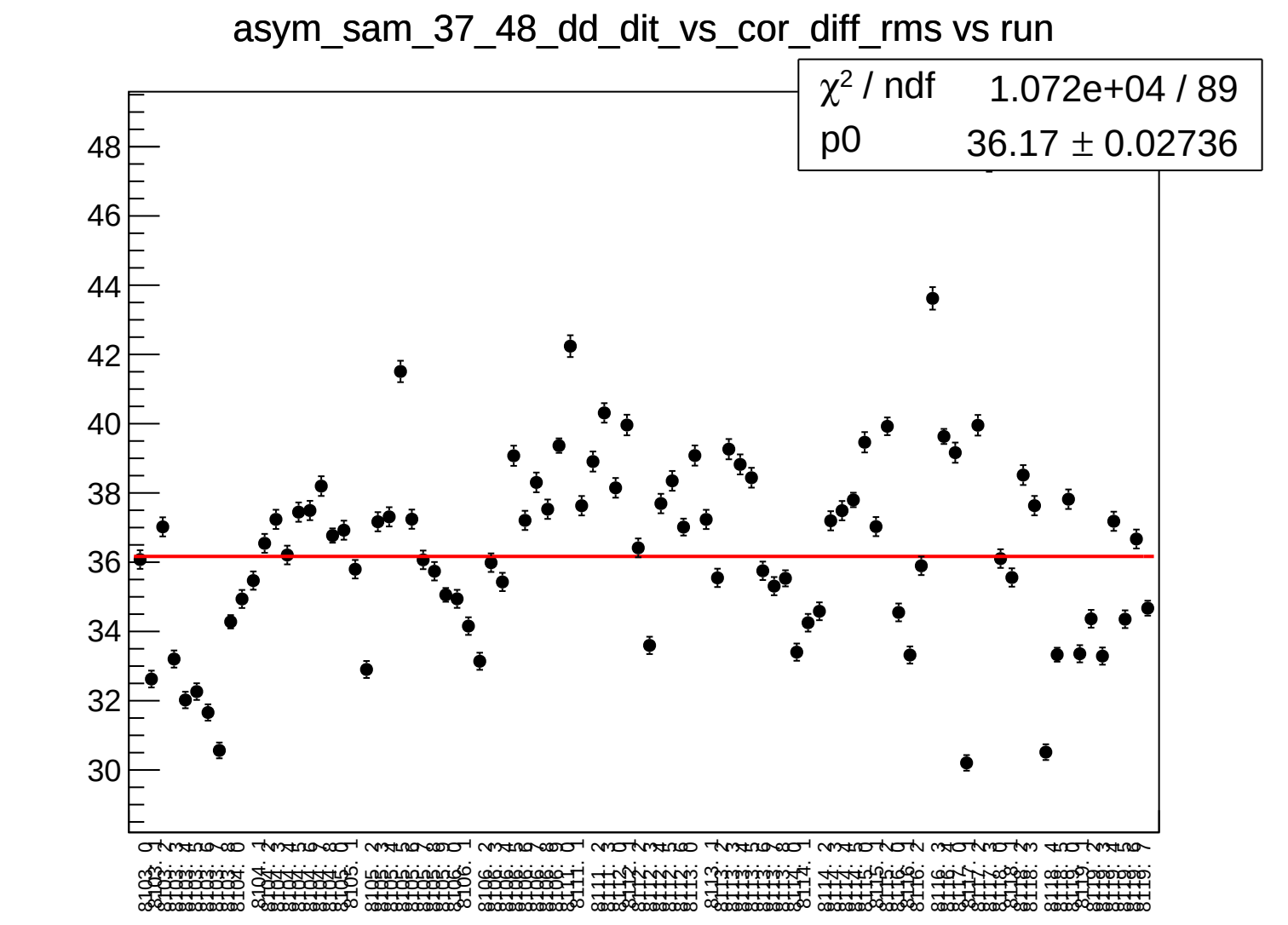

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.039e+04 / 89
p0 377.3 ± 0.2854
480
460
440
420
400
380
360
340
320

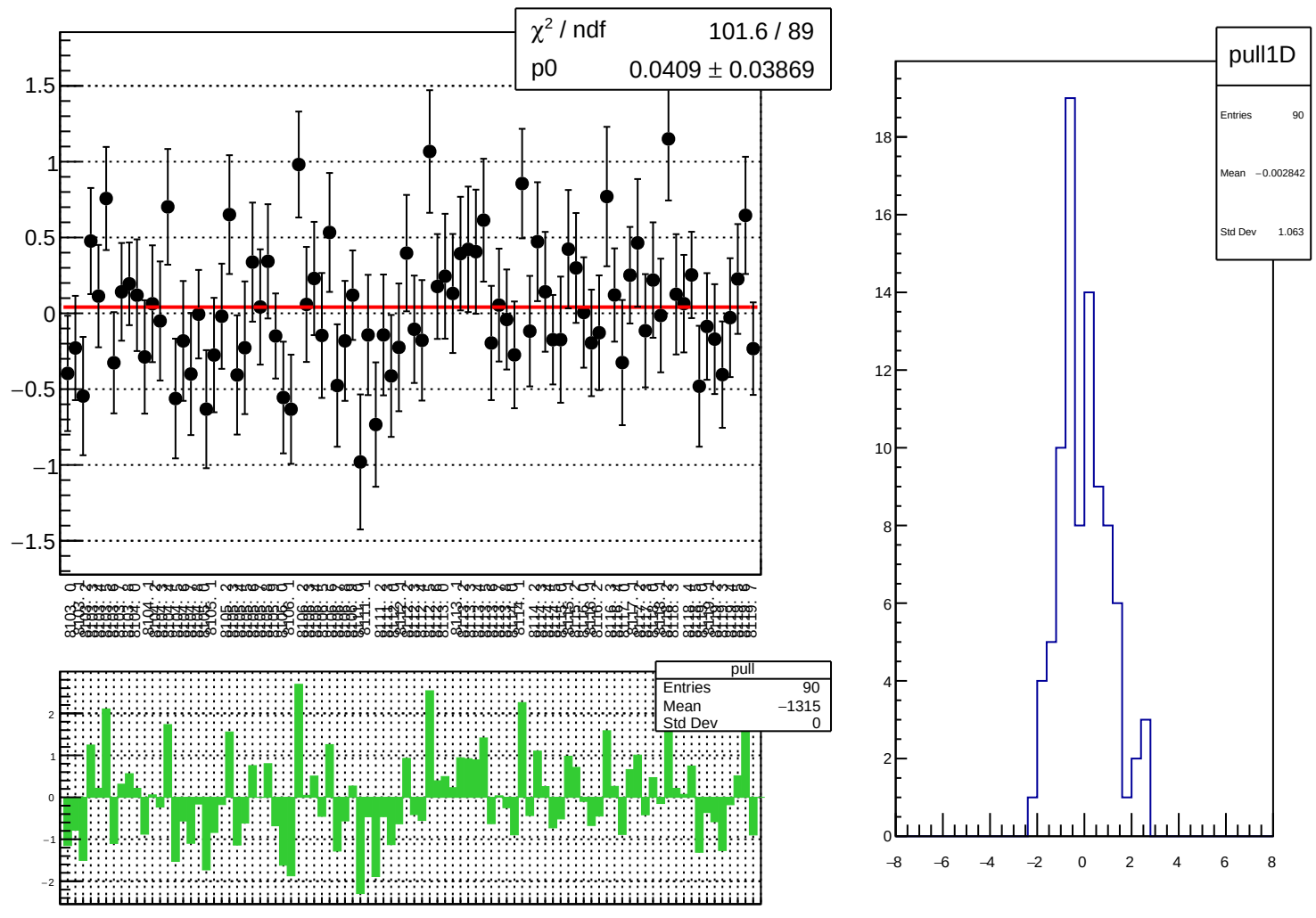

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.54 / 89
p0 −2.237e−14 ± 2.894e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 90
Mean 51.05
Std Dev 26.85
pull1D
Entries 90
Mean 0.1472
Std Dev 0.9808

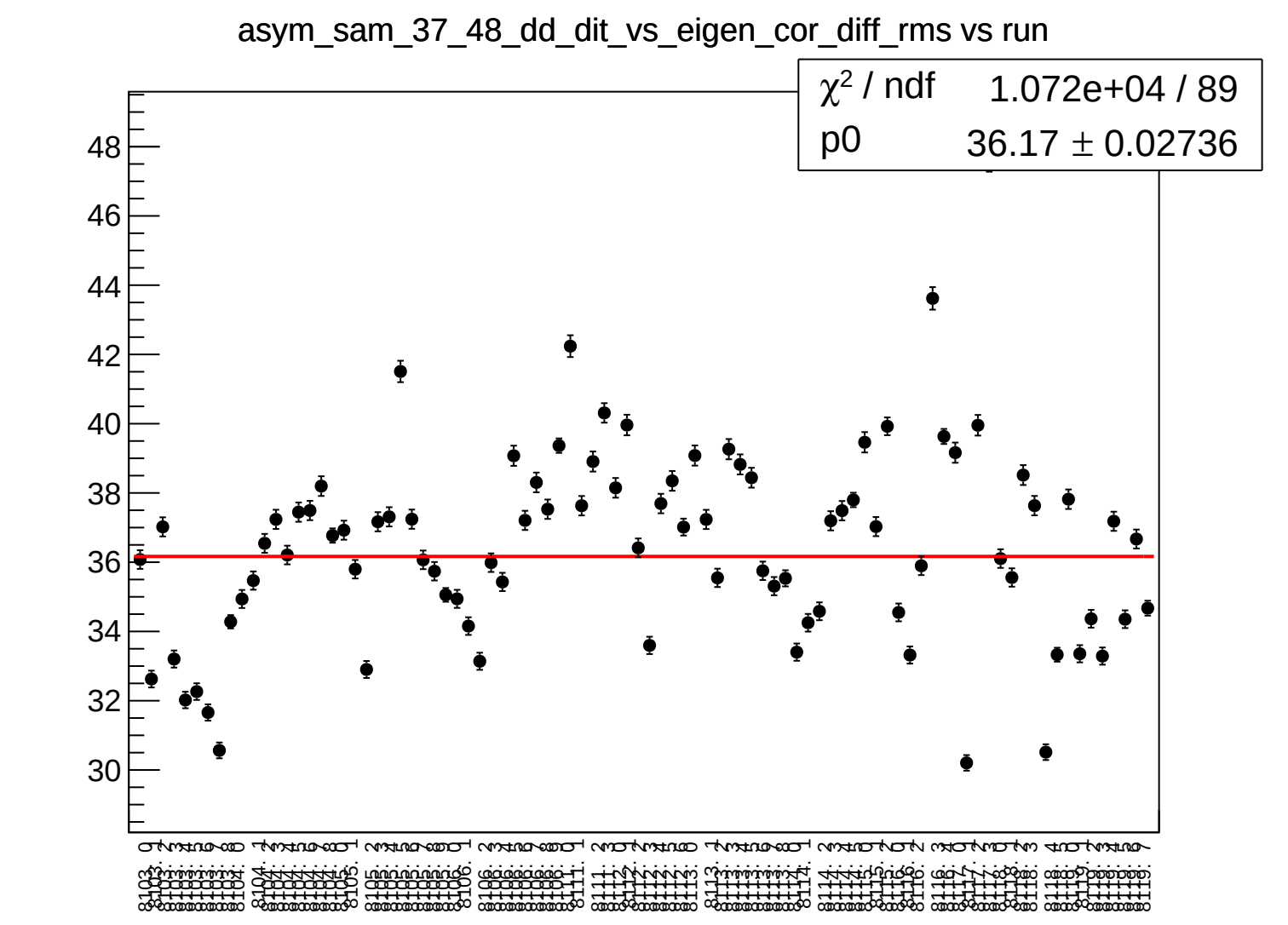

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.595e+05 / 89
p0 2.045e−11 ± 2.046e−14
0.05
0.04
0.03
0.02
0.01
0

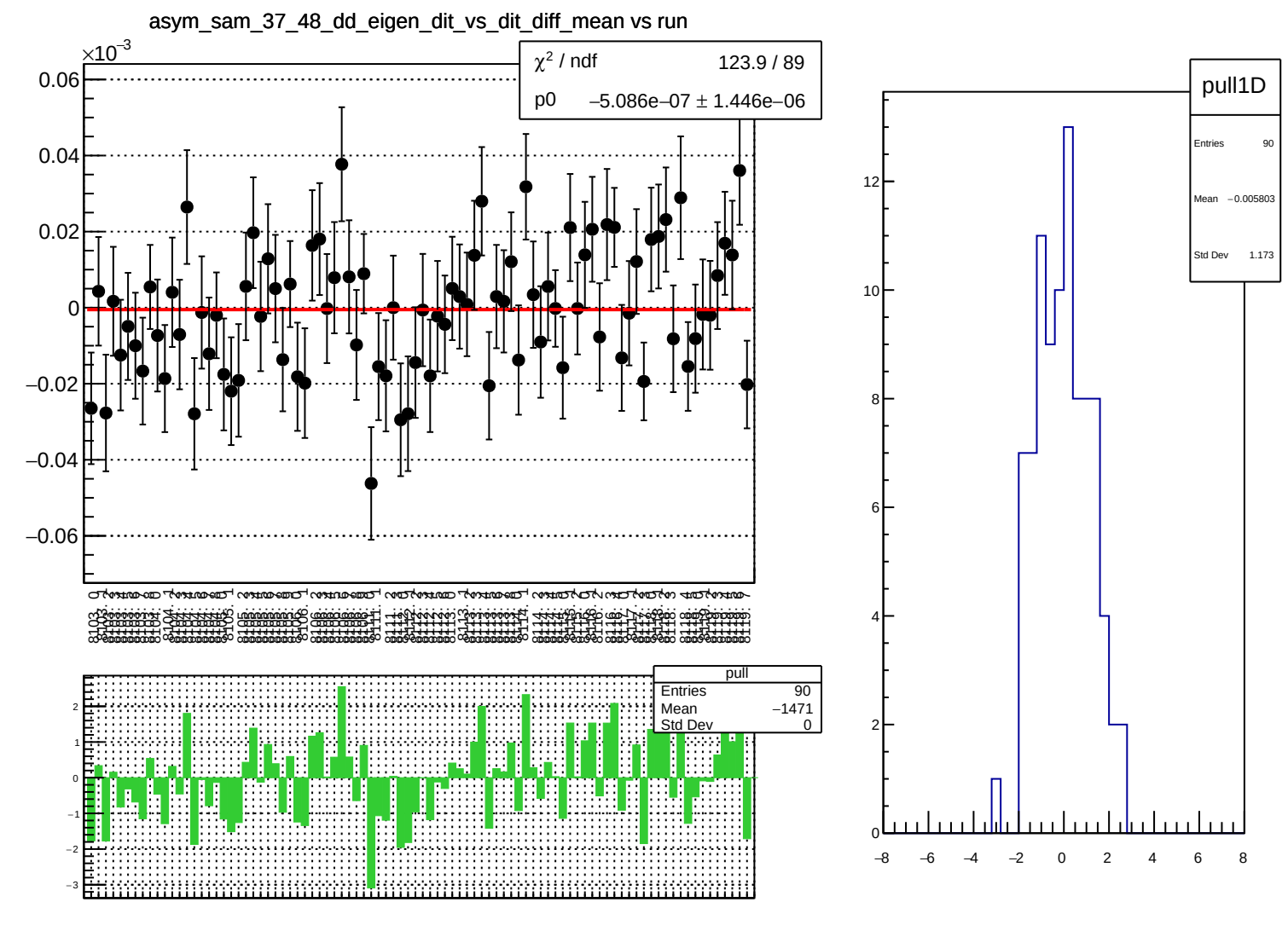

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 89
p0 0.0409 ± 0.03869
pull
Entries 90
Mean −1315
Std Dev 0

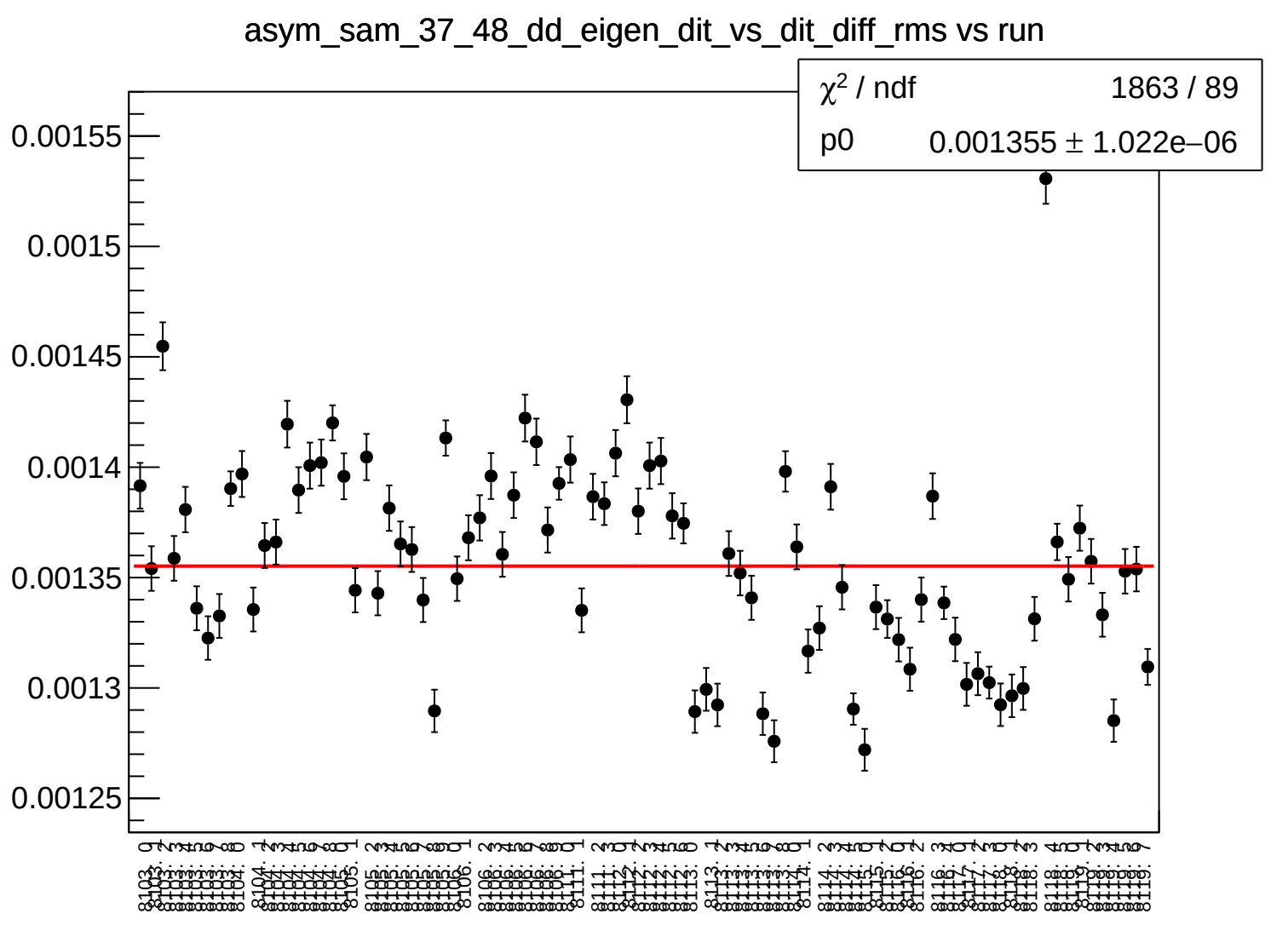

pull1D
Entries 90
Mean −0.002842
Std Dev 1.063

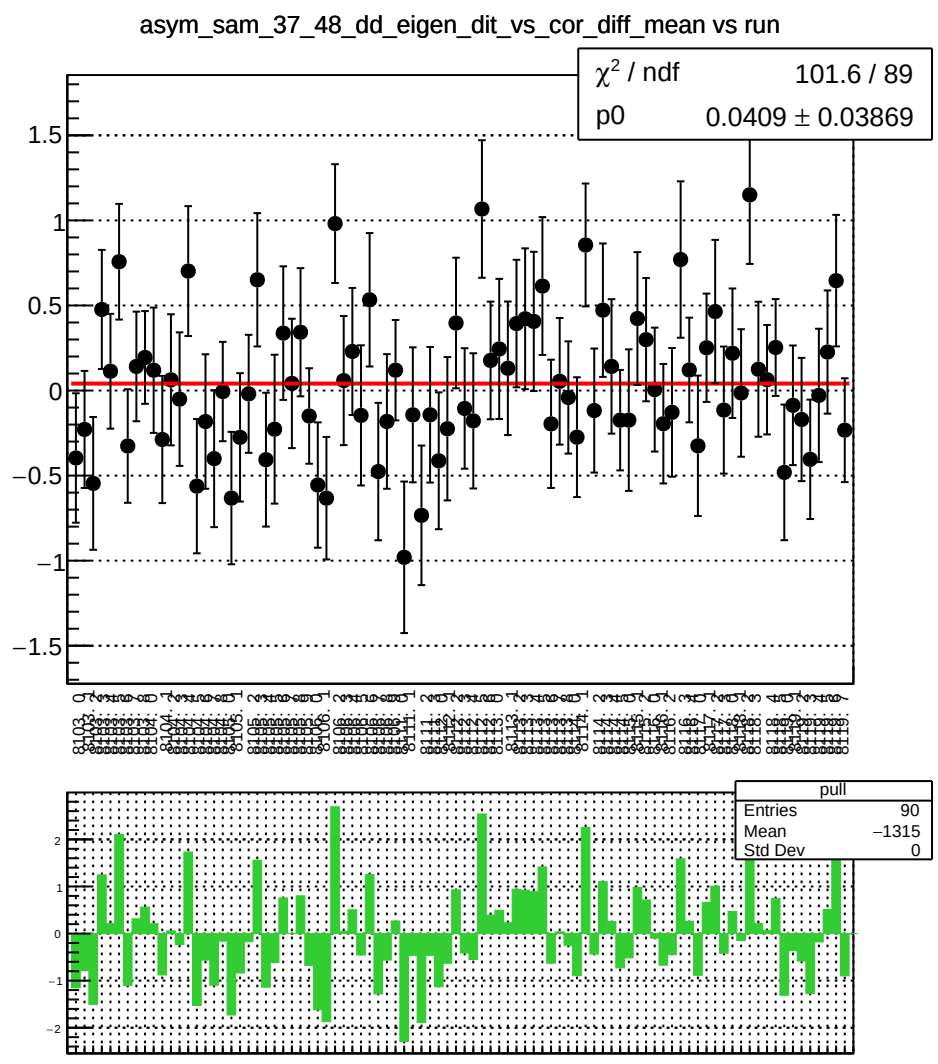

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.072e+04 / 89
p0 36.17 ± 0.02736
48
46
44
42
40
38
36
34
32
30

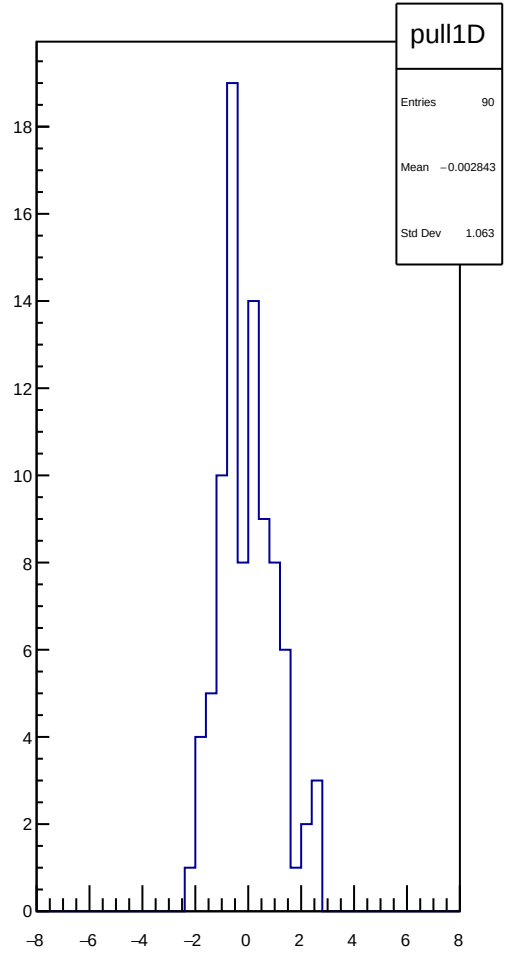

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.6 / 89
p0 0.0409 ± 0.03869
pull
Entries 90
Mean −1315
Std Dev 0
pull1D
Entries 90
Mean −0.002842
Std Dev 1.063

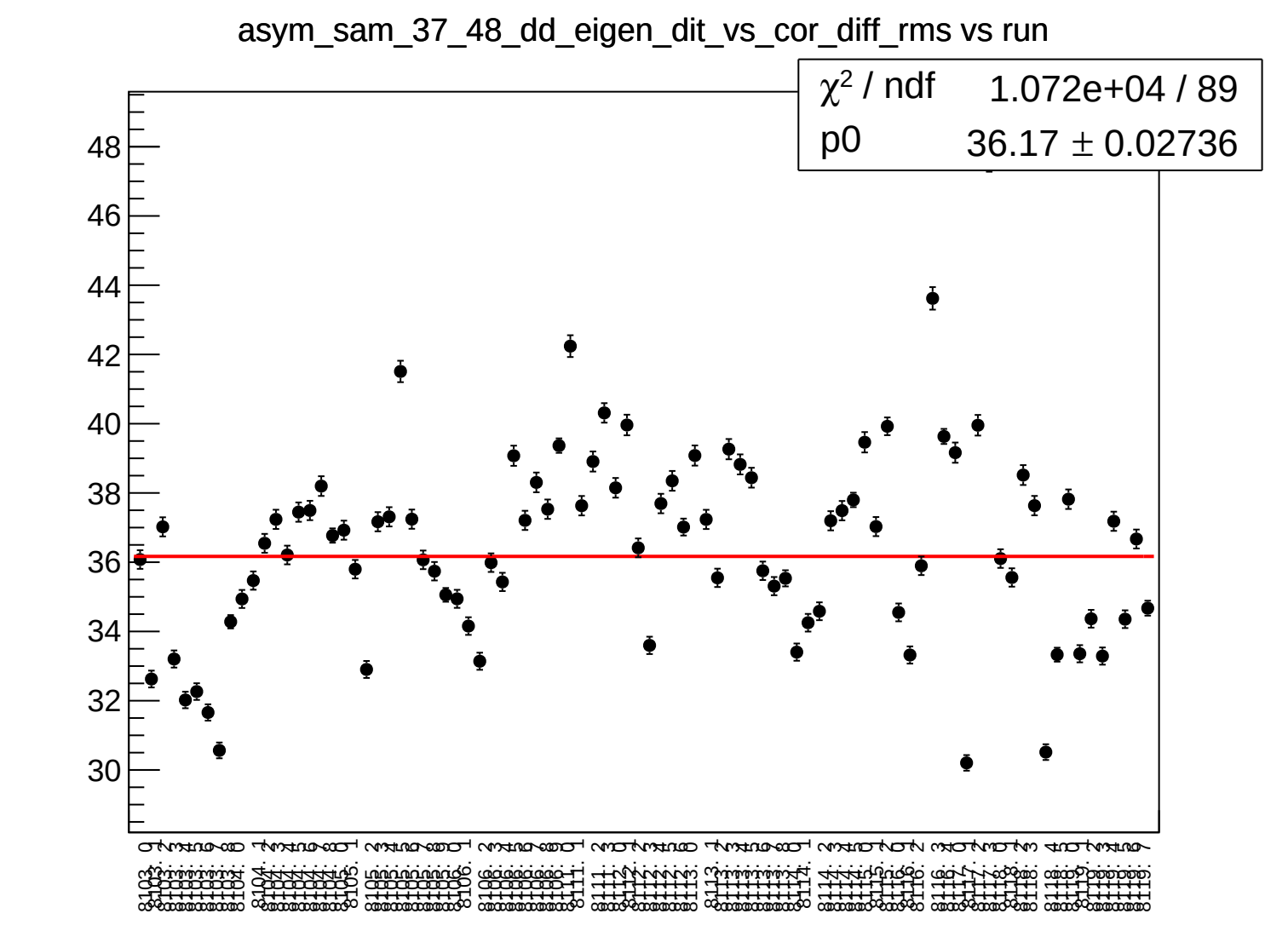

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.072e+04 / 89
p0 36.17 ± 0.02736
48
46
44
42
40
38
36
34
32
30

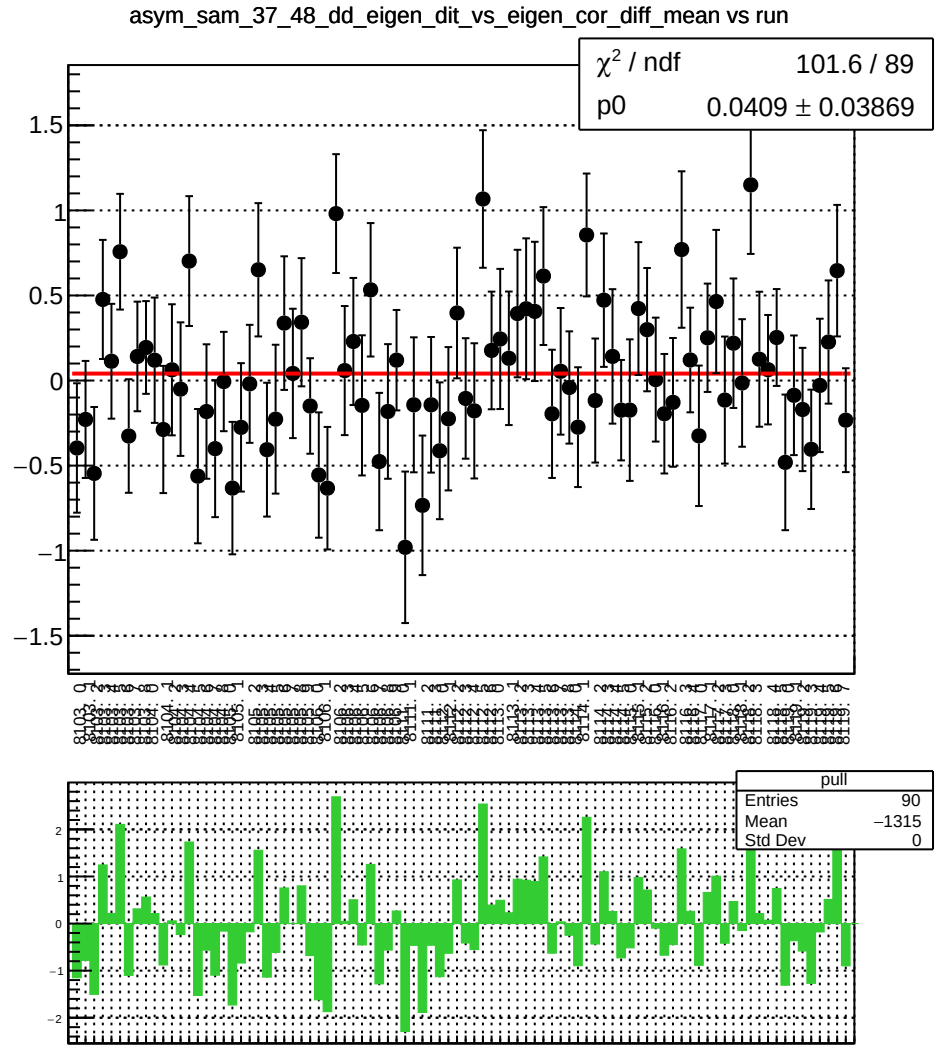

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 123.9 / 89
p0 −5.086e−07 ± 1.446e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean −1471
Std Dev 0
pull1D
Entries 90
Mean −0.005803
Std Dev 1.173

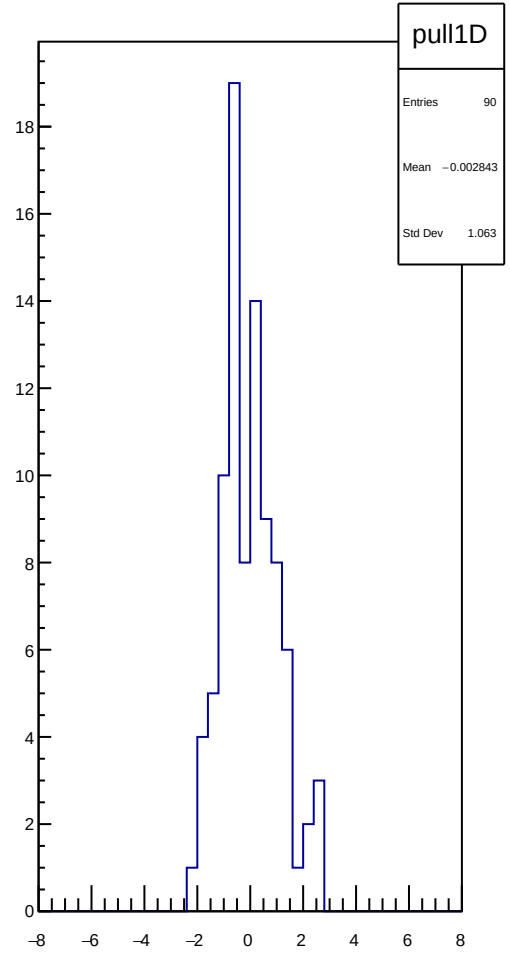

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1863 / 89
p0 0.001355 ± 1.022e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125

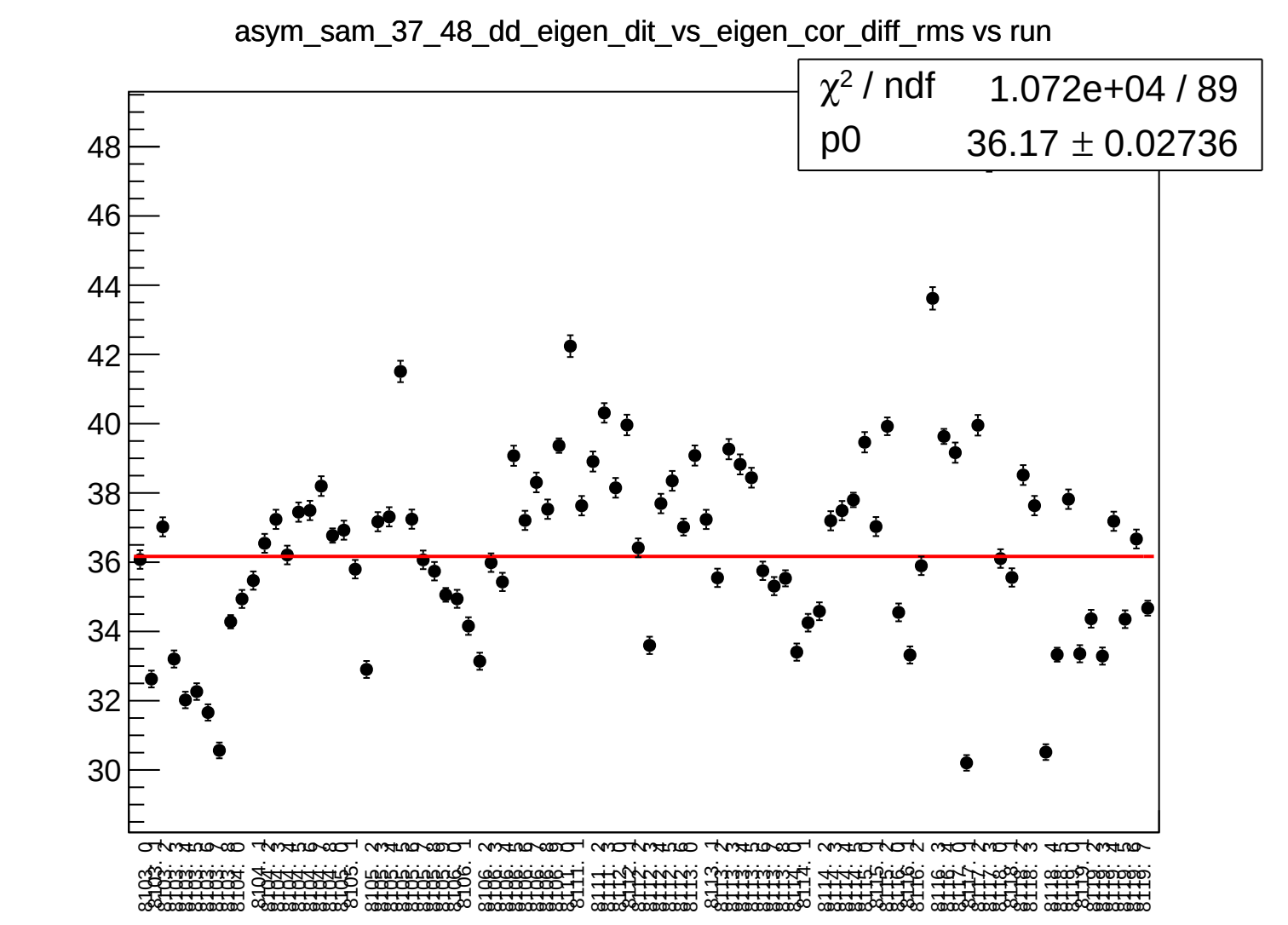

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 89
p0 0.0409 ± 0.03869
pull
Entries 90
Mean −1315
Std Dev 0

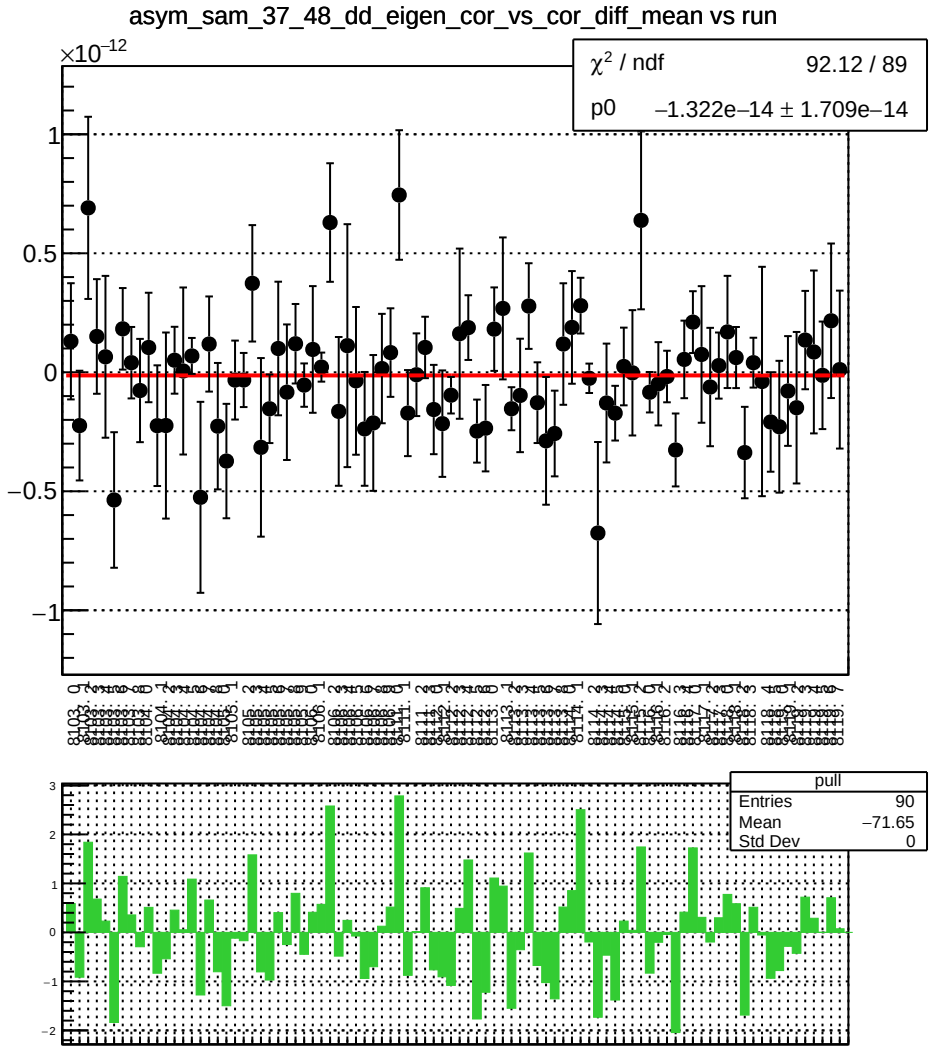

pull1D
Entries 90
Mean −0.002843
Std Dev 1.063

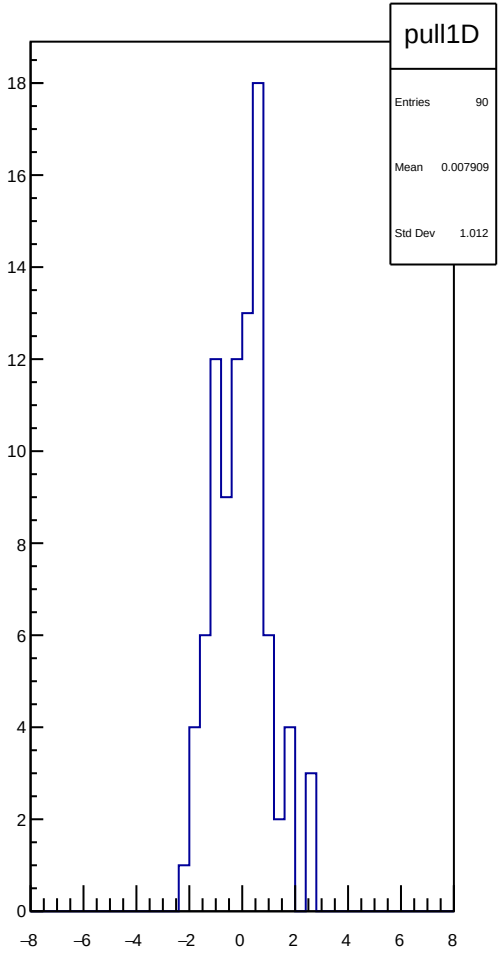

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.072e+04 / 89
p0 36.17 ± 0.02736
48
46
44
42
40
38
36
34
32
30

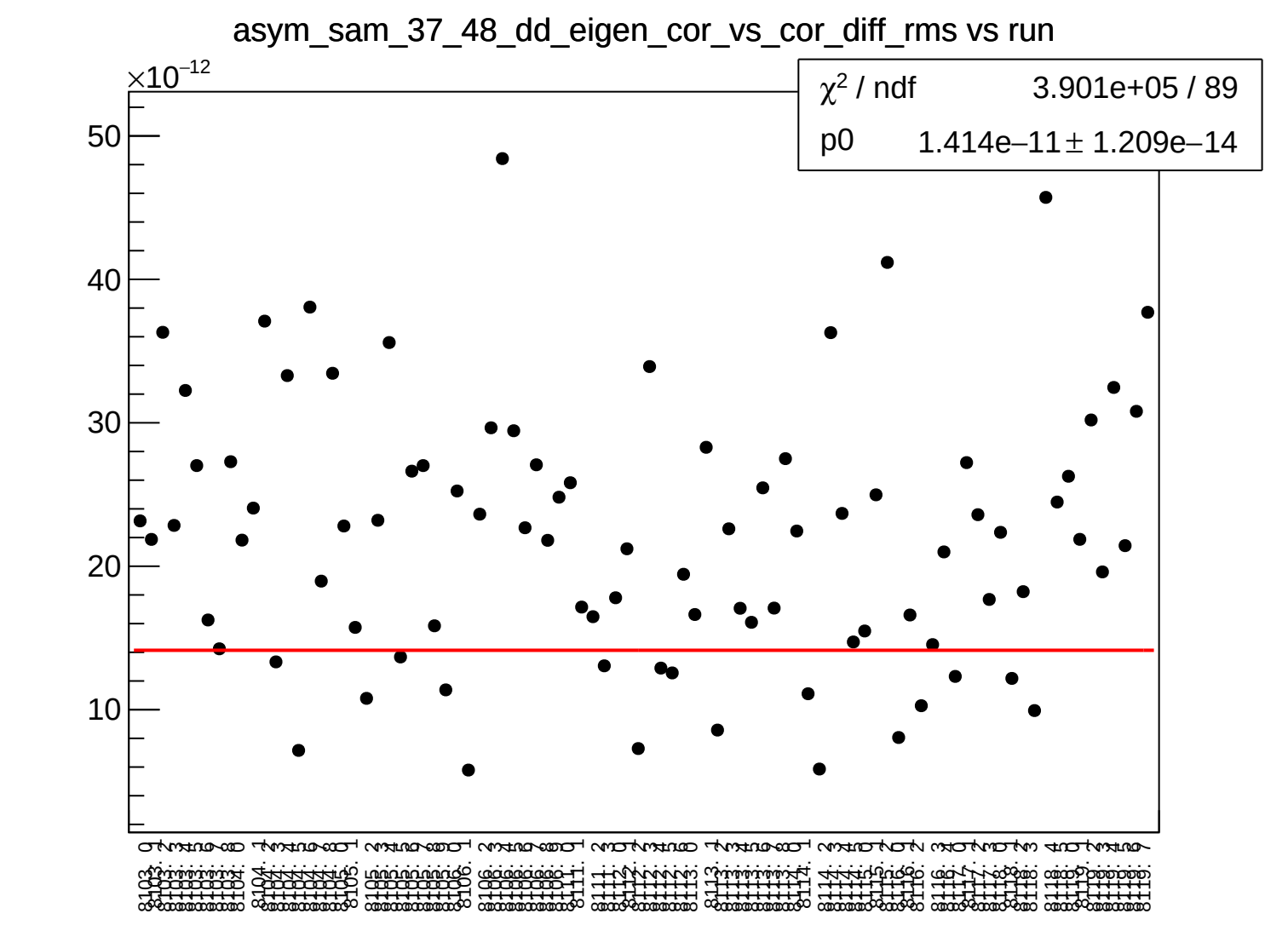

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.6 / 89
p0 0.0409 ± 0.03869
pull
Entries 90
Mean −1315
Std Dev 0

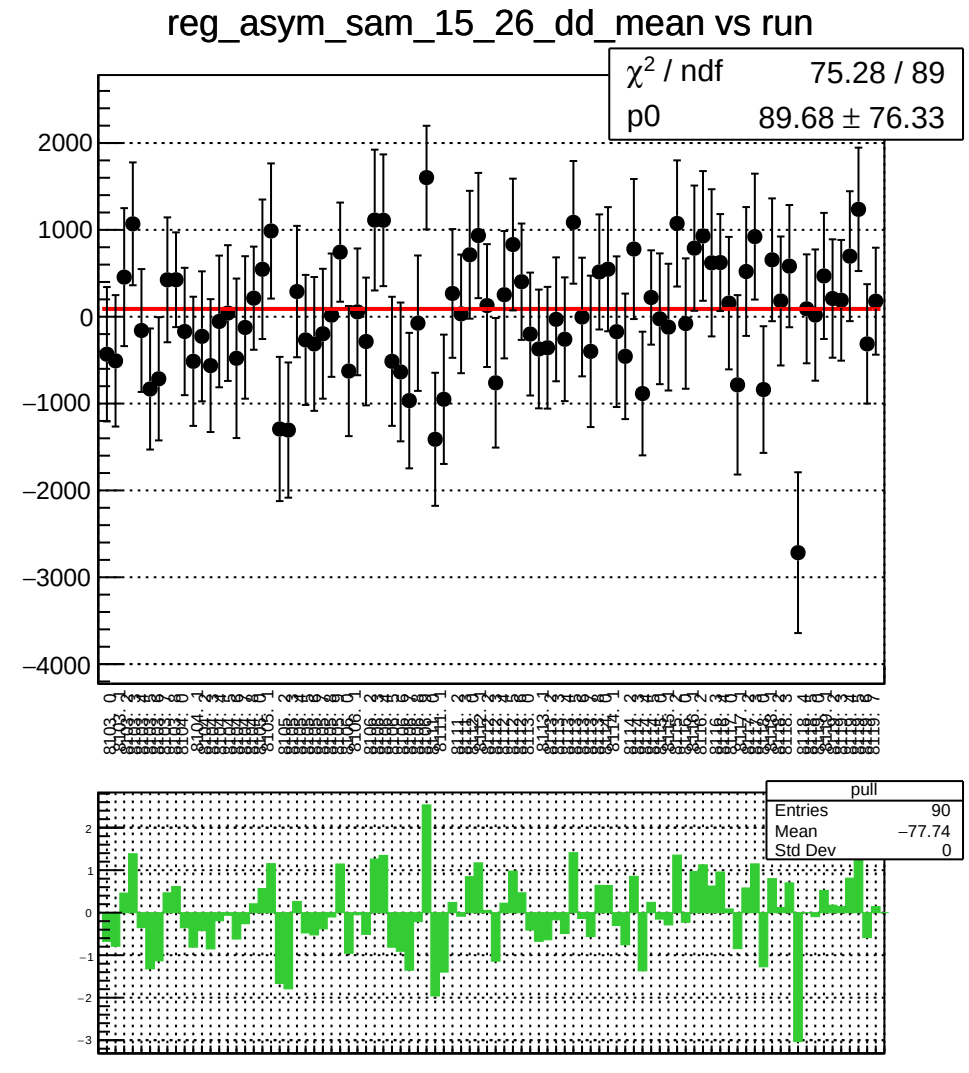

pull1D
Entries 90
Mean −0.002843
Std Dev 1.063

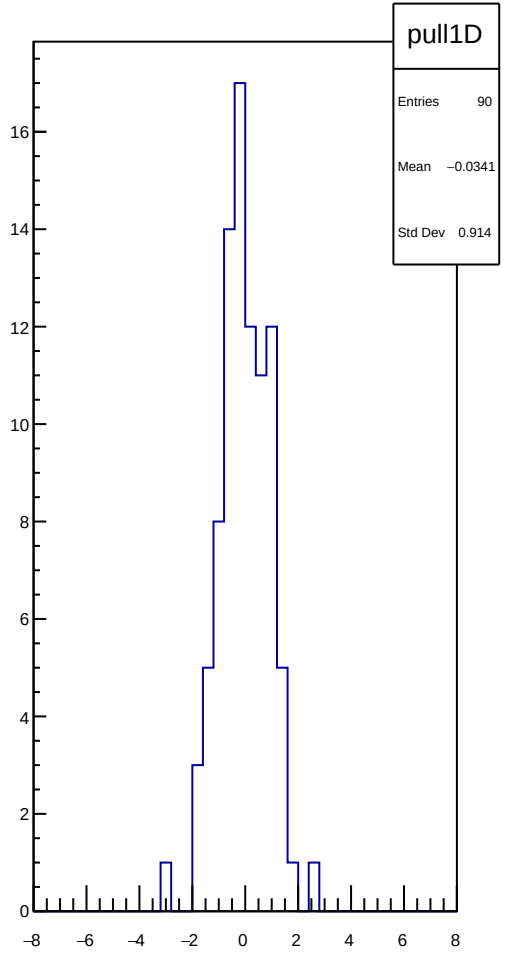

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.072e+04 / 89
p0 36.17 ± 0.02736
48
46
44
42
40
38
36
34
32
30

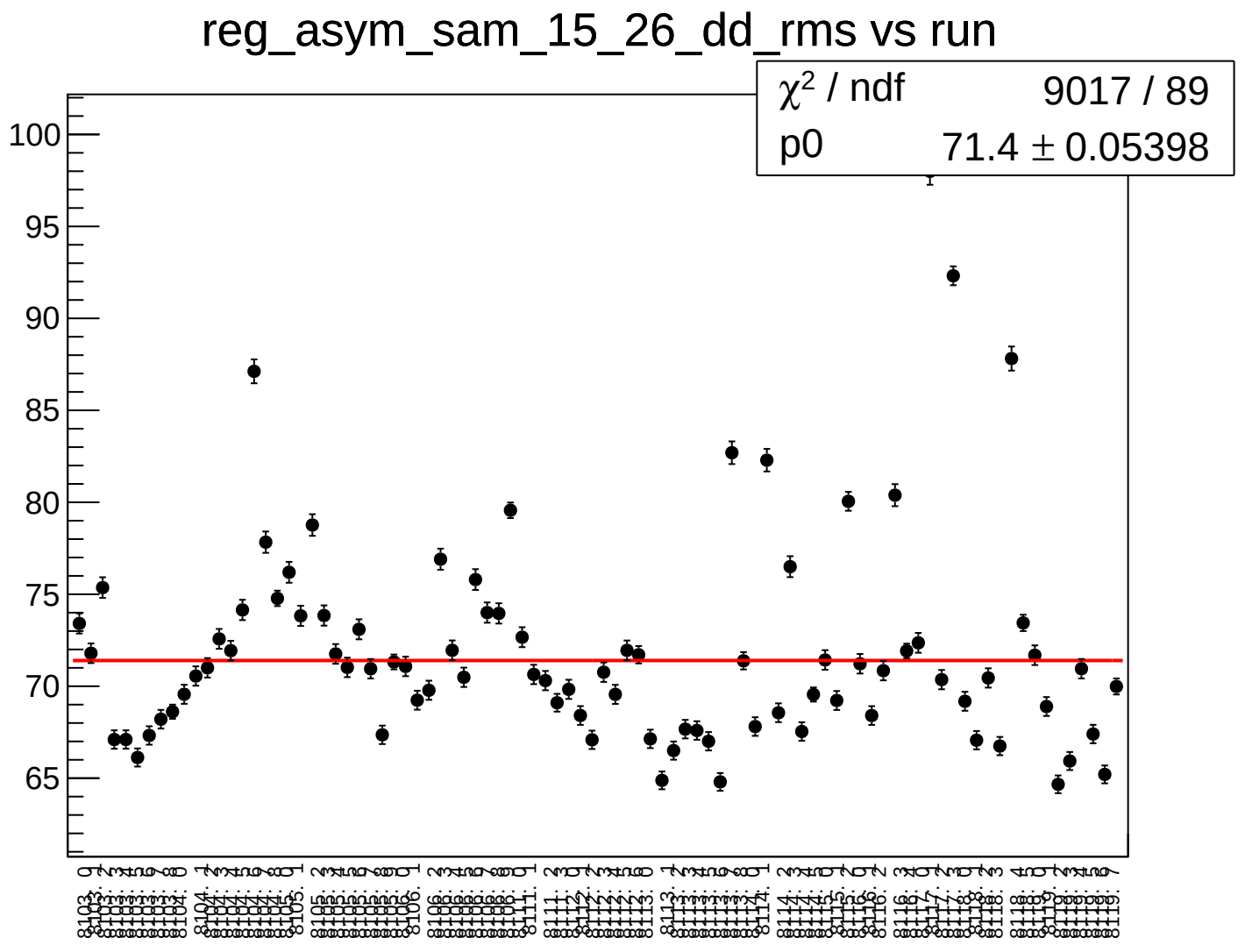

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.12 / 89
p0 −1.322e−14 ± 1.709e−14
pull
Entries 90
Mean −71.65
Std Dev 0

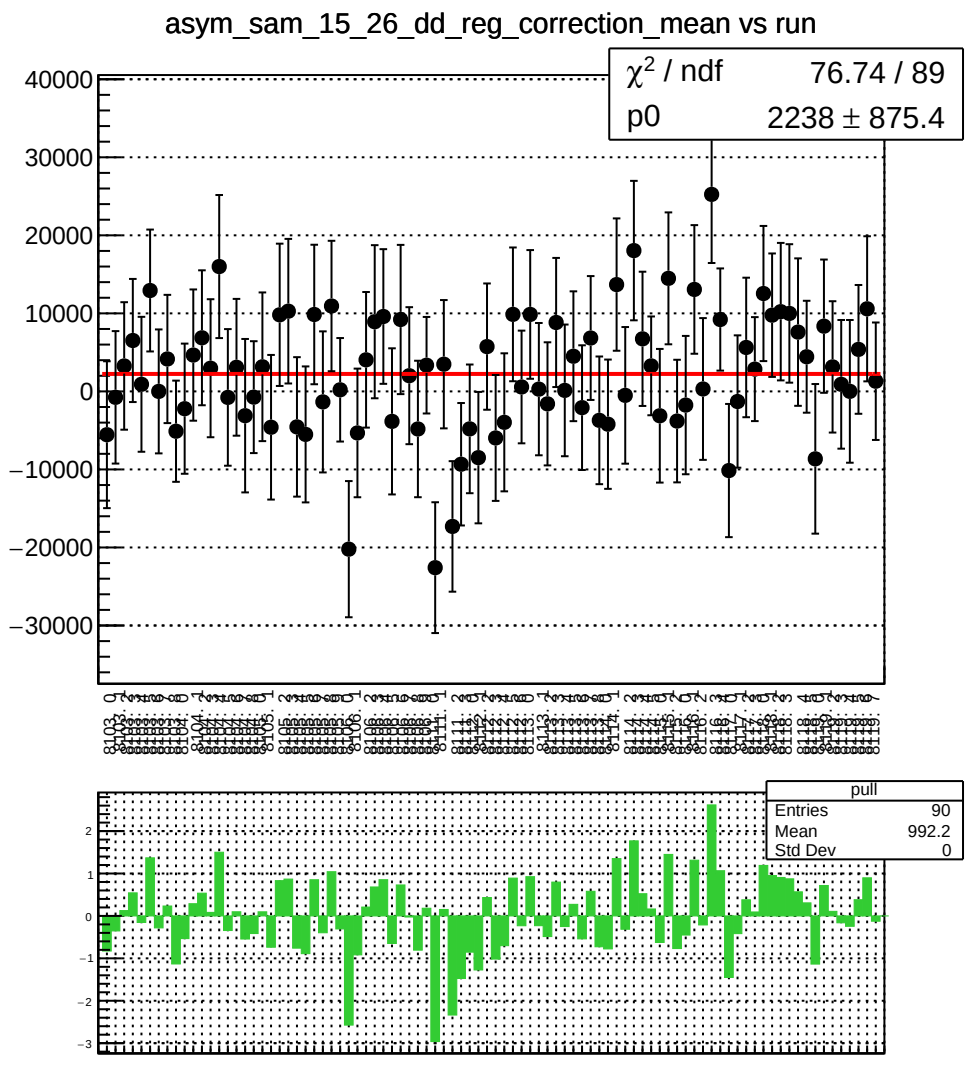

pull1D
Entries 90
Mean 0.007909
Std Dev 1.012

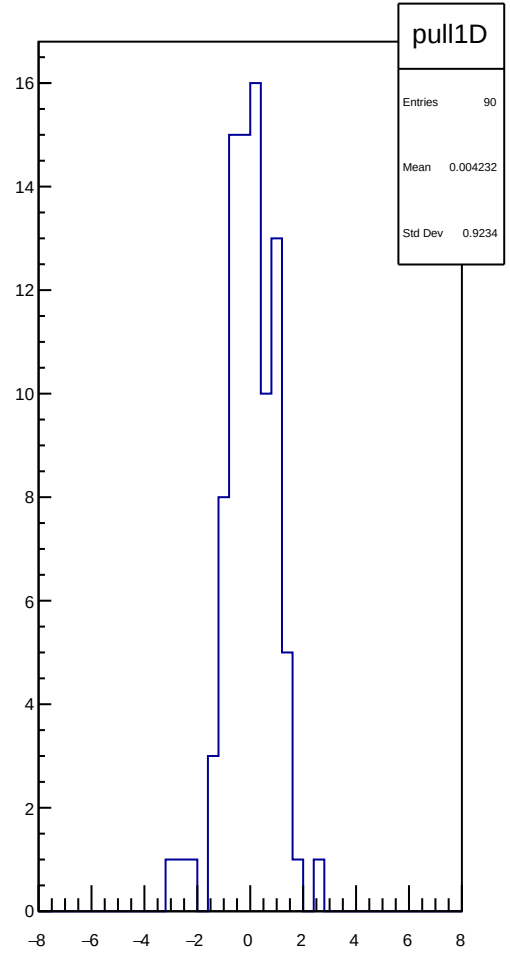

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.901e+05 / 89
p0 1.414e−11 ± 1.209e−14
50
40
30
20
10

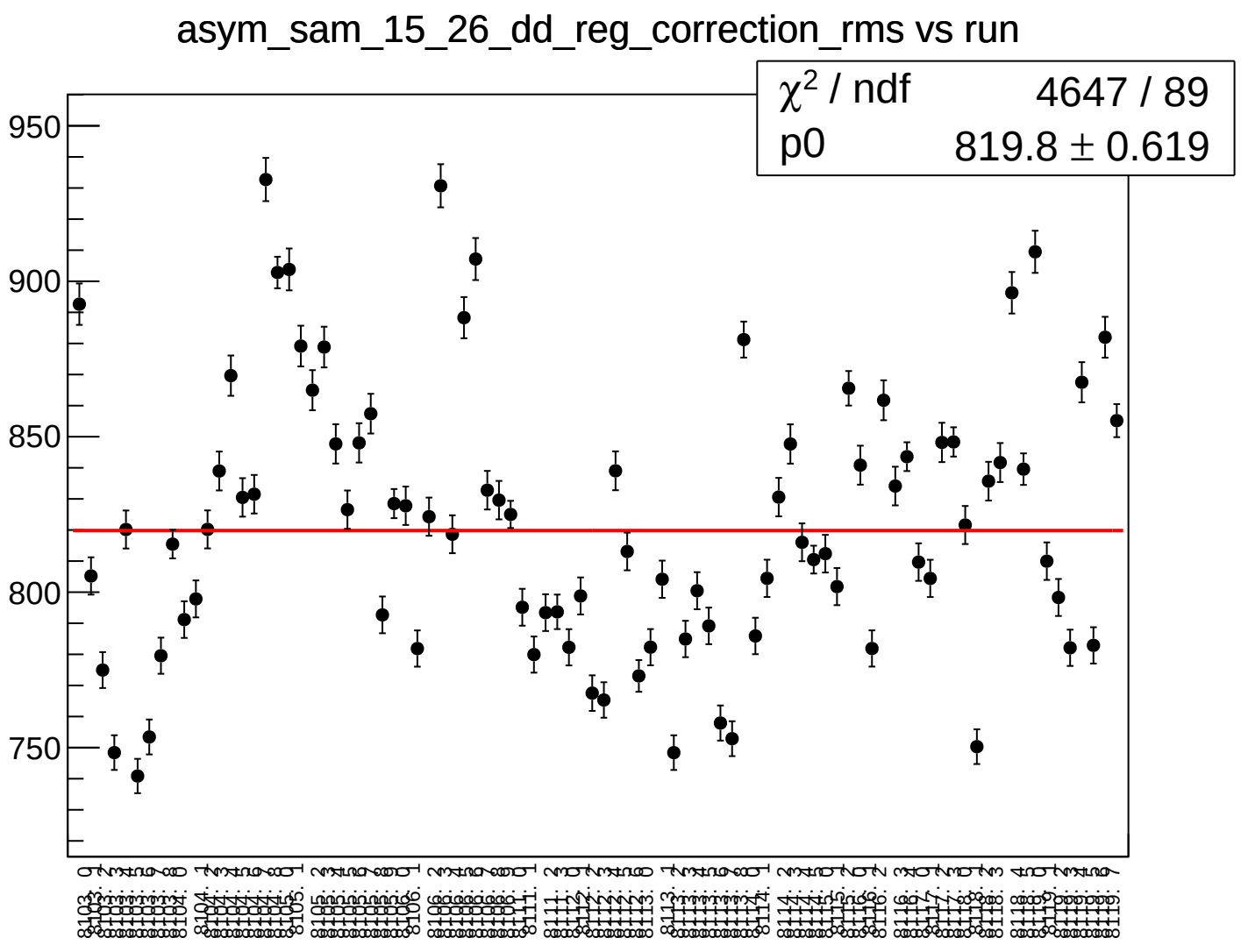

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.28 / 89
p0 89.68 ± 76.33
pull
Entries 90
Mean −77.74
Std Dev 0

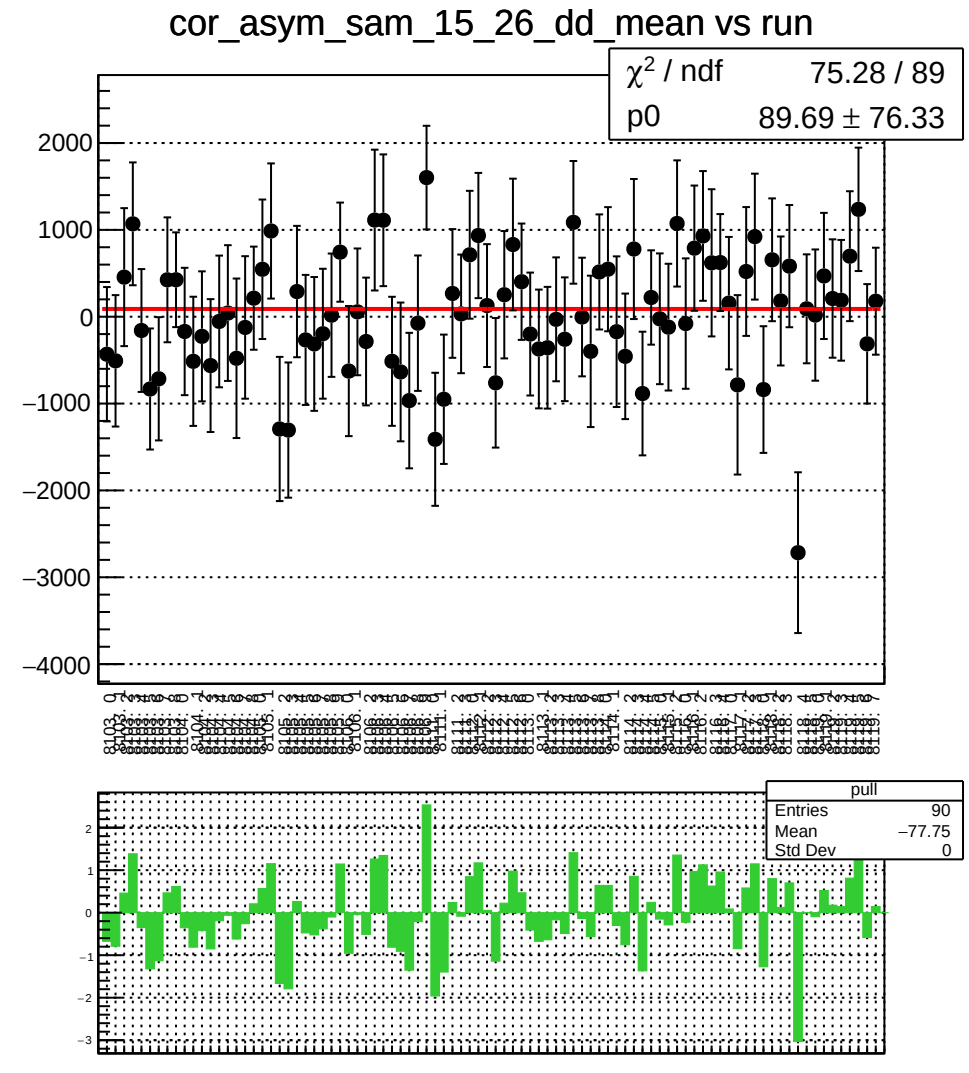

pull1D
Entries 90
Mean −0.0341
Std Dev 0.914

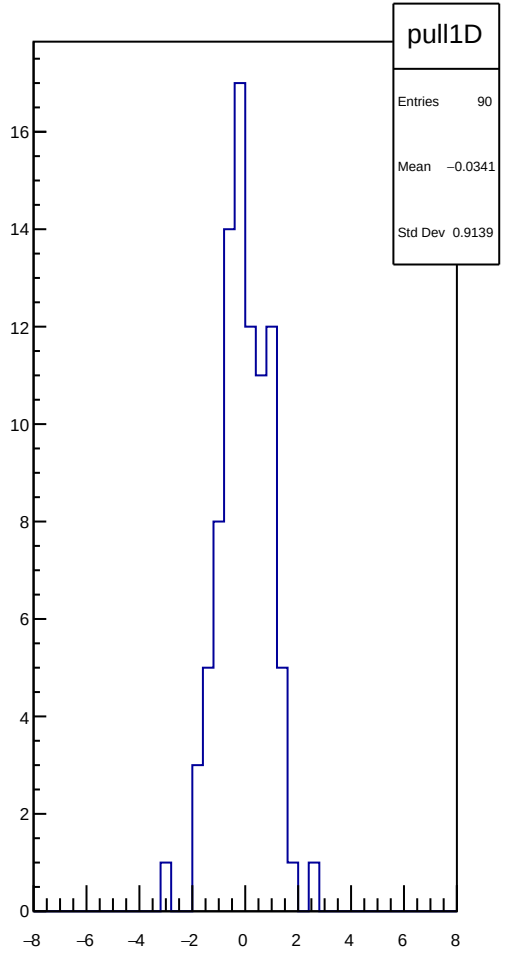

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 9017 / 89
p0 71.4 ± 0.05398
100
95
90
85
80
75
70
65

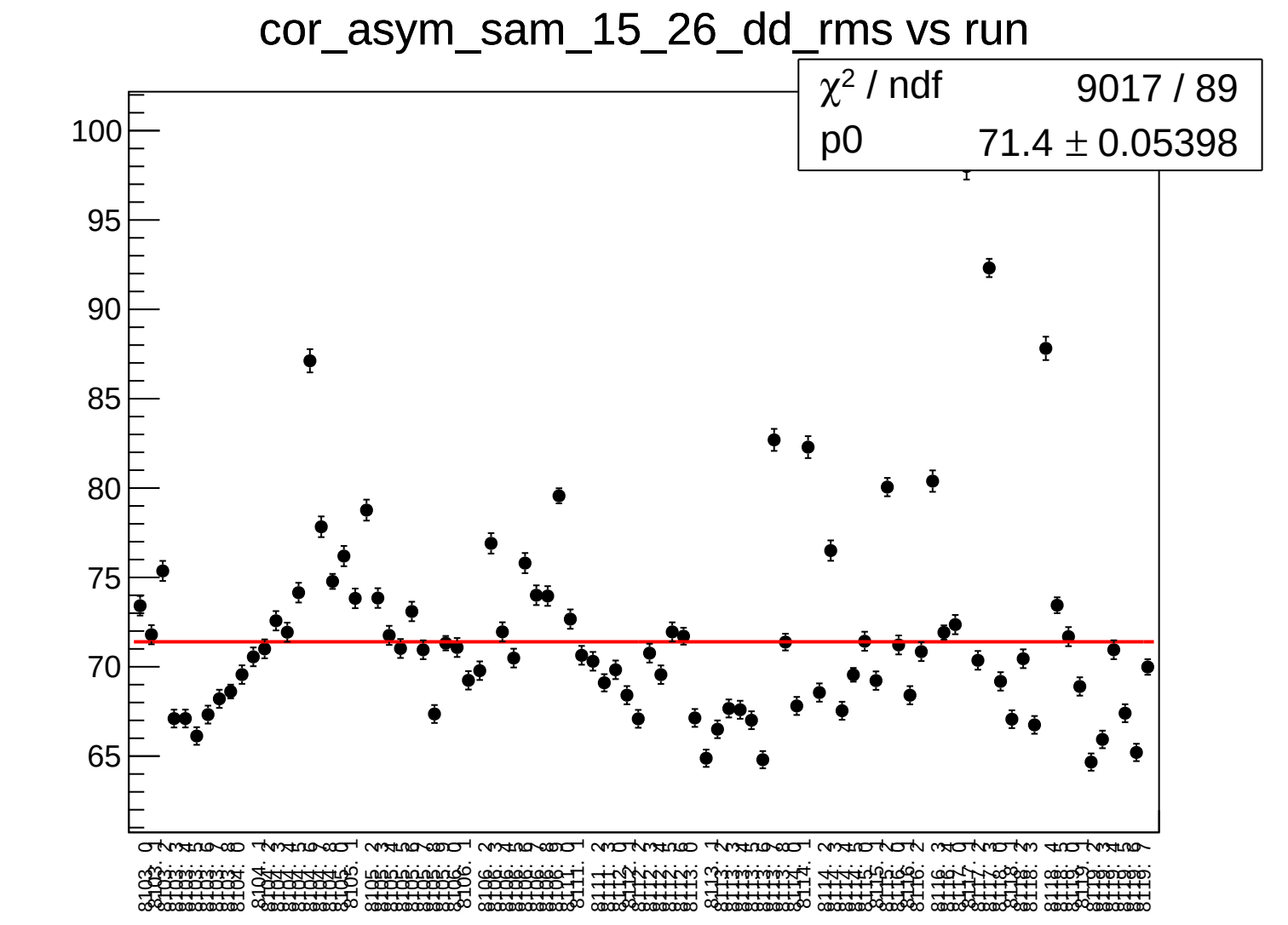

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 76.74 / 89
p0 2238 ± 875.4
pull
Entries 90
Mean 992.2
Std Dev 0

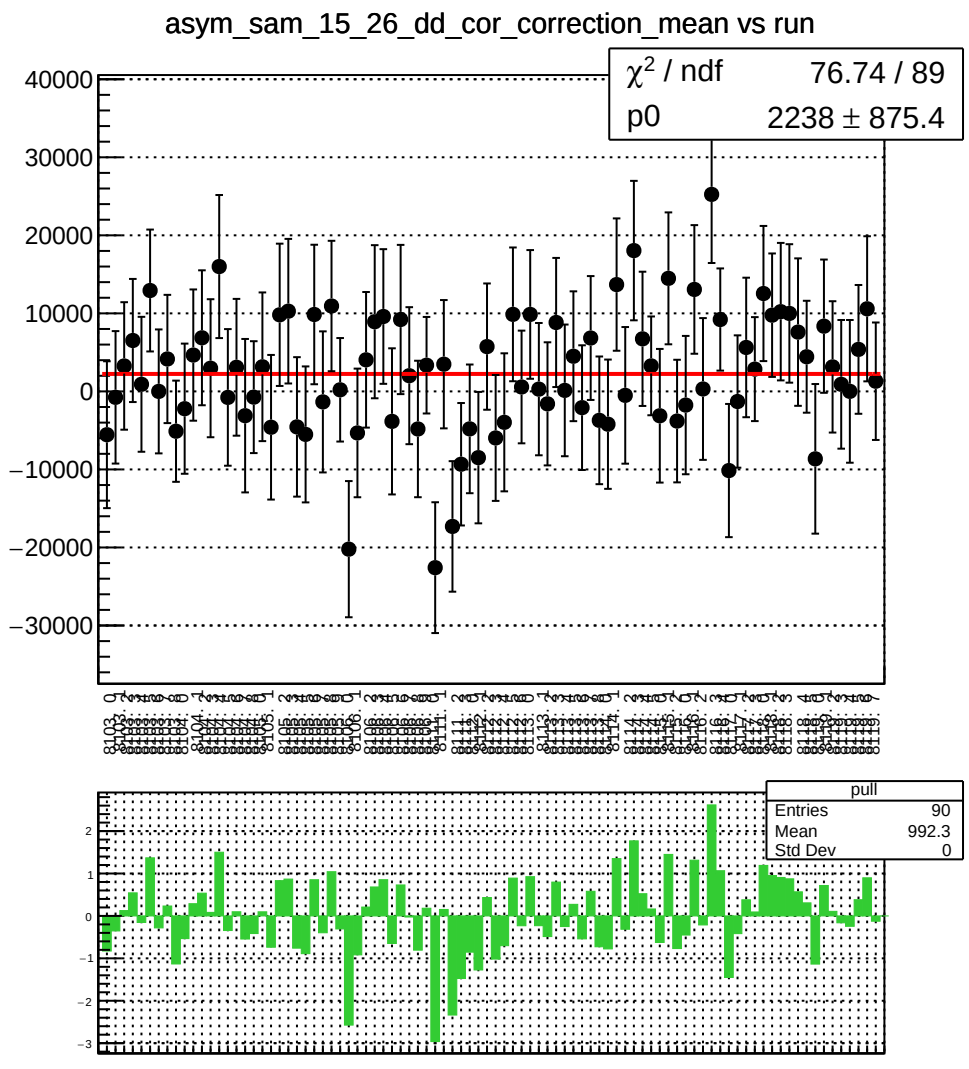

pull1D
Entries 90
Mean 0.004232
Std Dev 0.9234

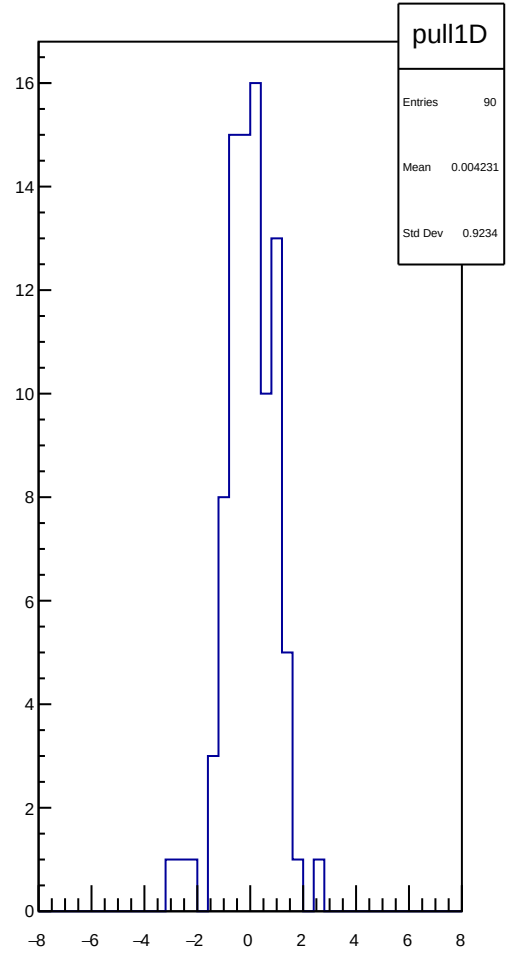

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 4647 / 89
p0 819.8 ± 0.619
950
900
850
800
750

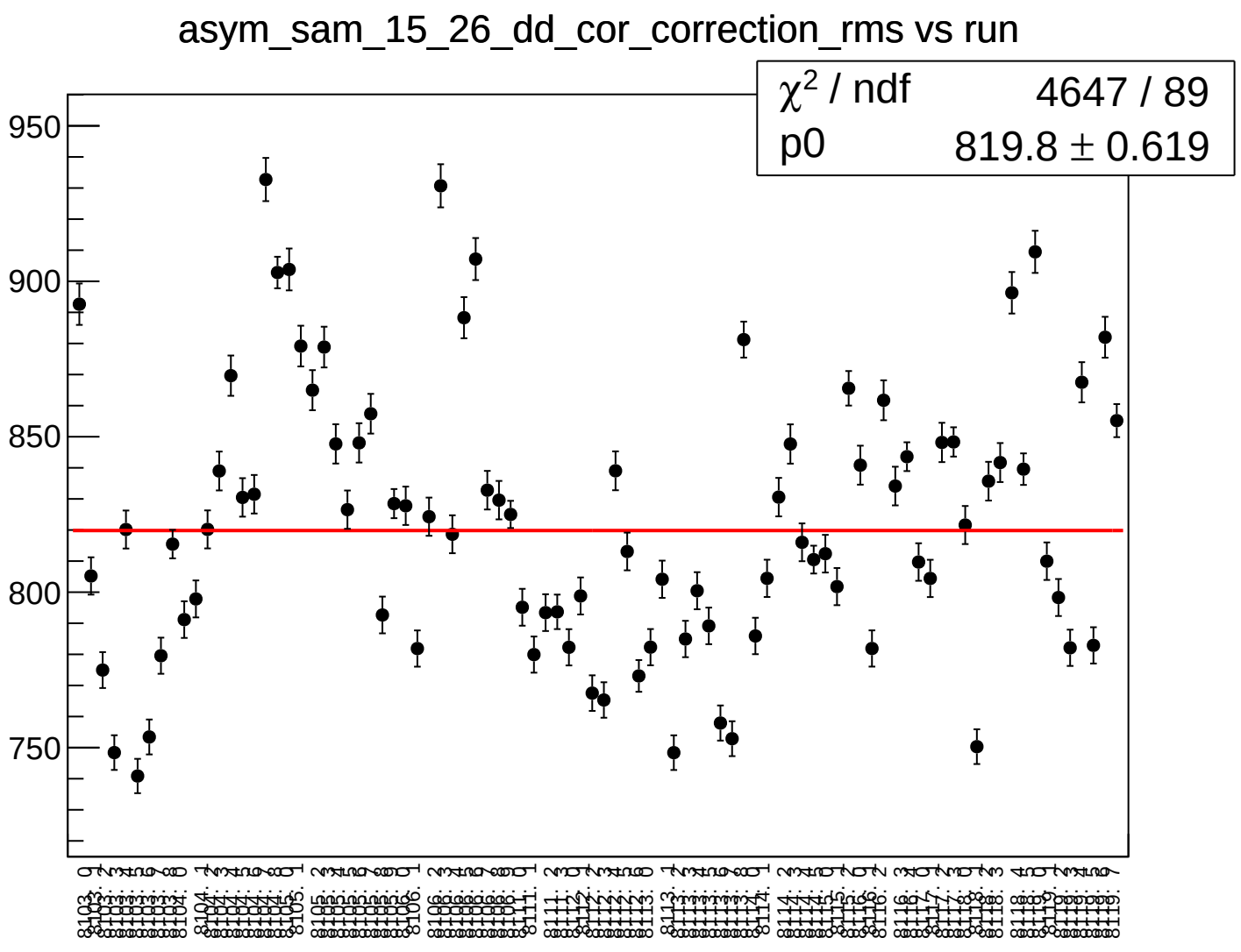

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.28 / 89
p0 89.69 ± 76.33
pull
Entries 90
Mean −77.75
Std Dev 0

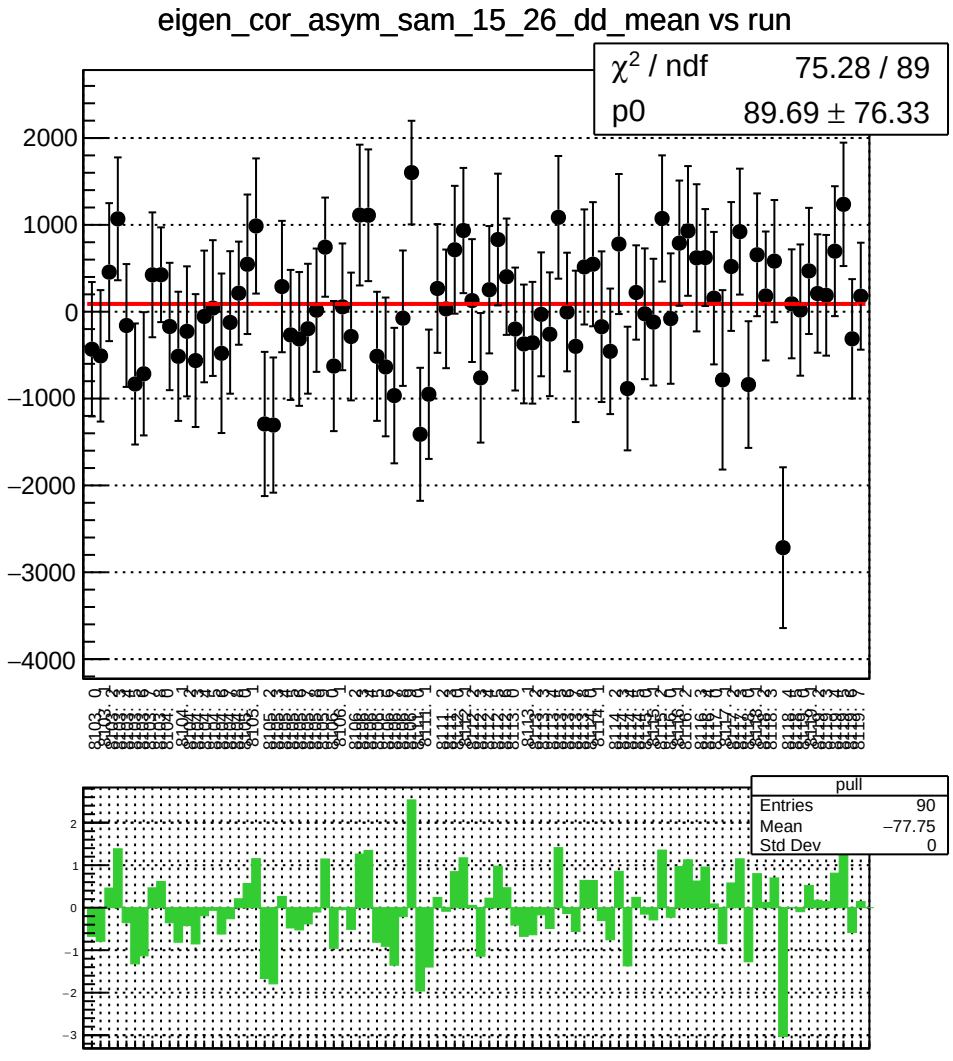

pull1D
Entries 90
Mean −0.0341
Std Dev 0.9139

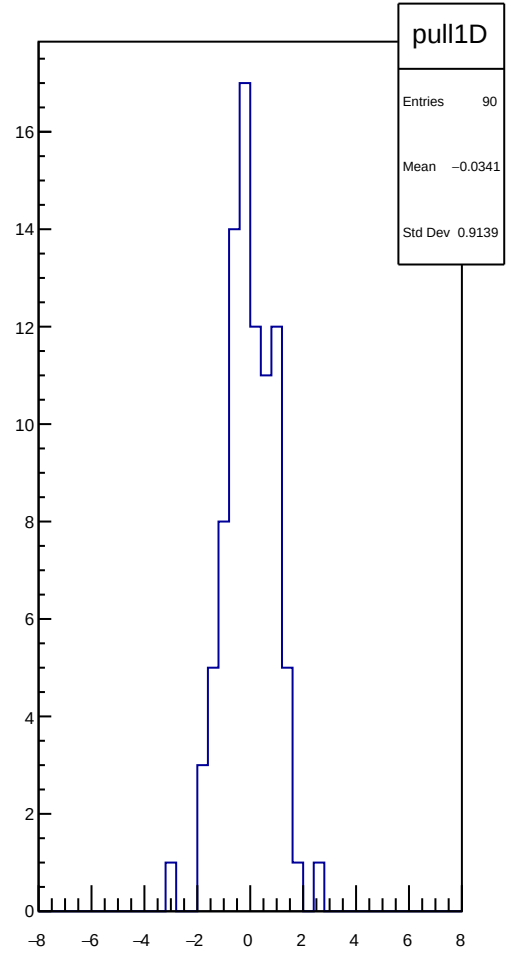

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 9017 / 89
p0 71.4 ± 0.05398
100
95
90
85
80
75
70
65

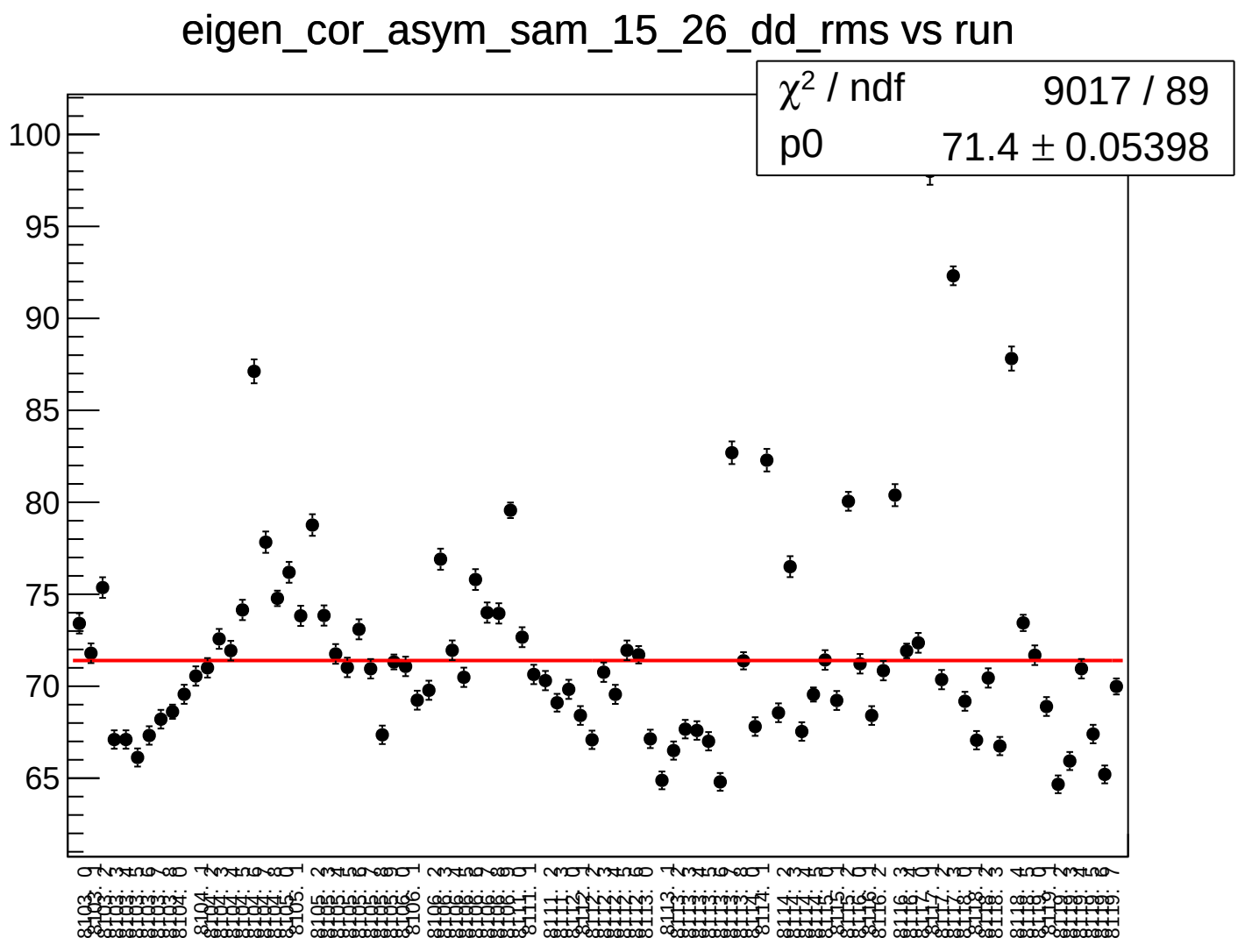

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 76.74 / 89
p0 2238 ± 875.4
pull
Entries 90
Mean 992.3
Std Dev 0

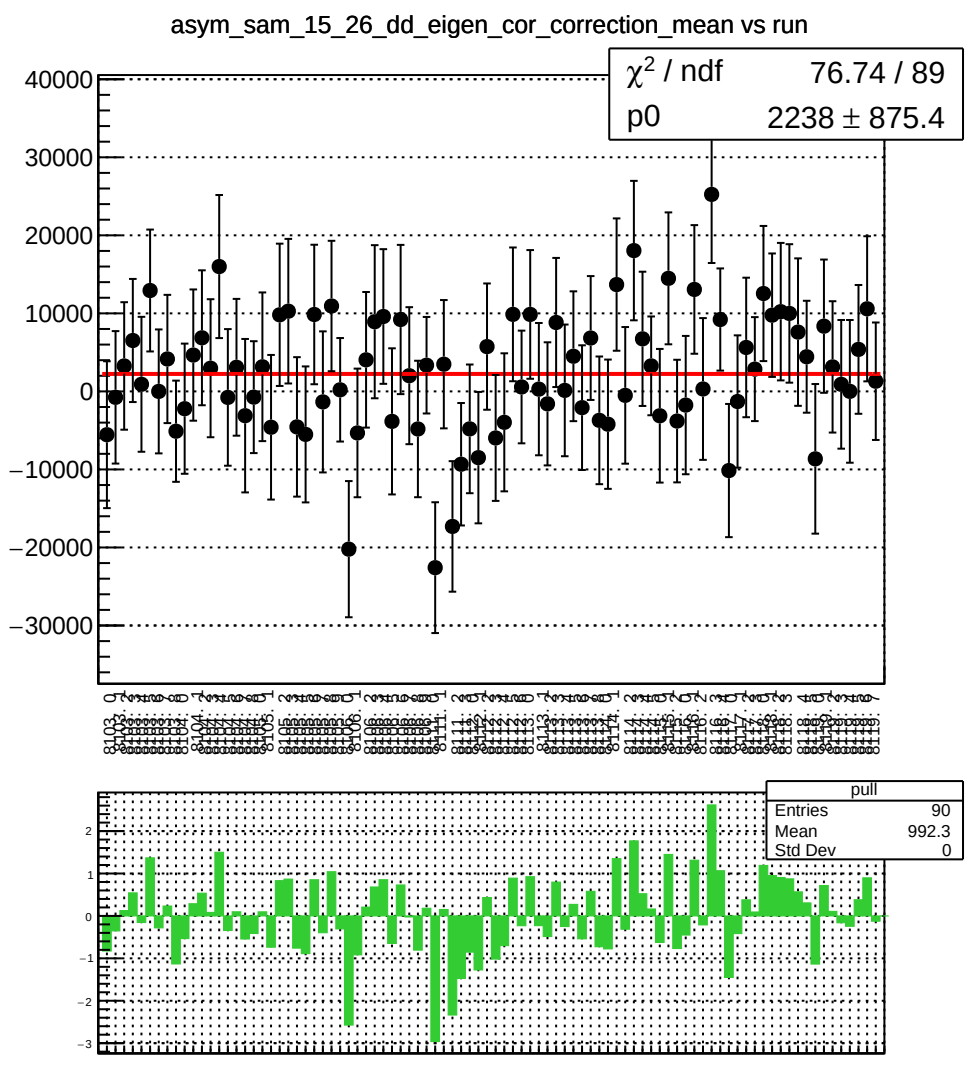

pull1D
Entries 90
Mean 0.004231
Std Dev 0.9234

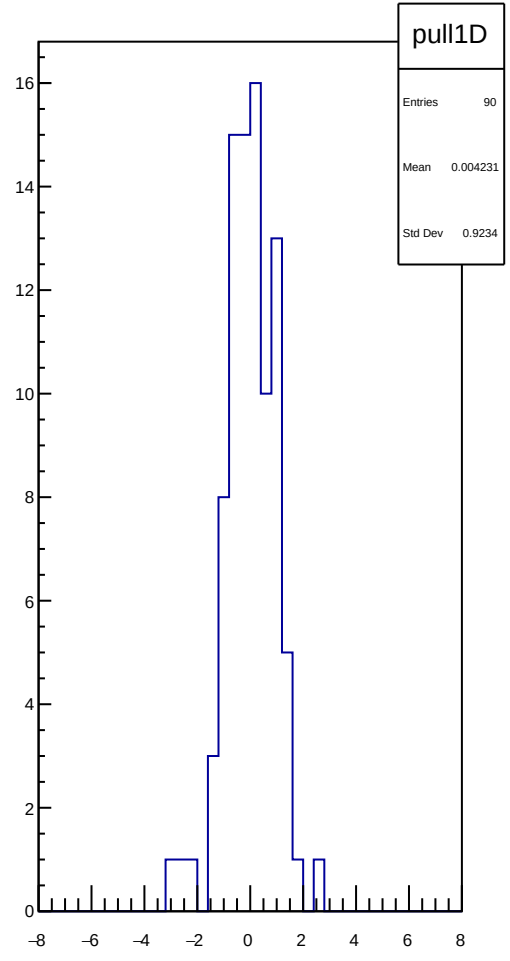

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 4647 / 89
p0 819.8 ± 0.619
950
900
850
800
750

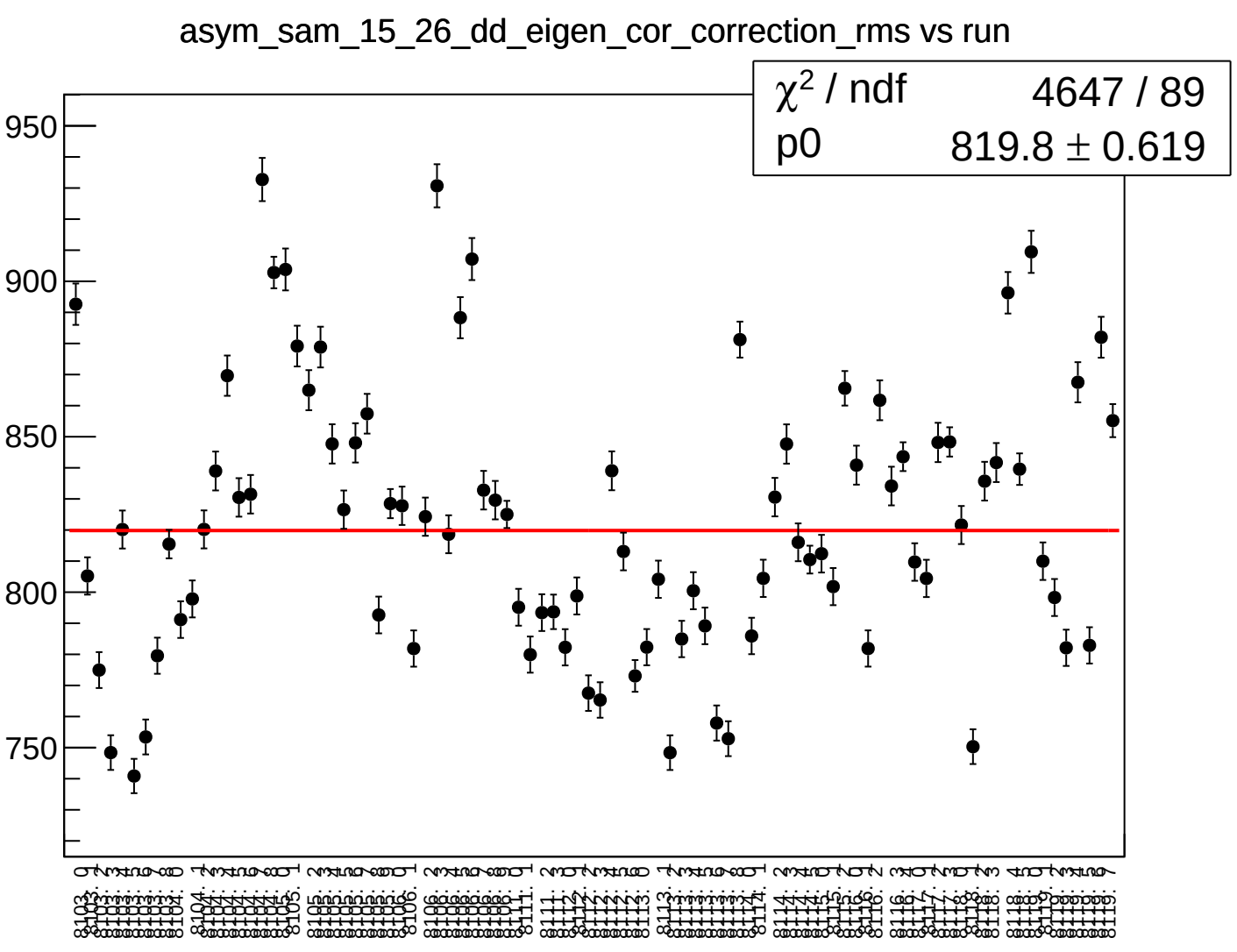

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.28 / 89
p0 89.69 ± 76.33
pull
Entries 90
Mean −77.75
Std Dev 0

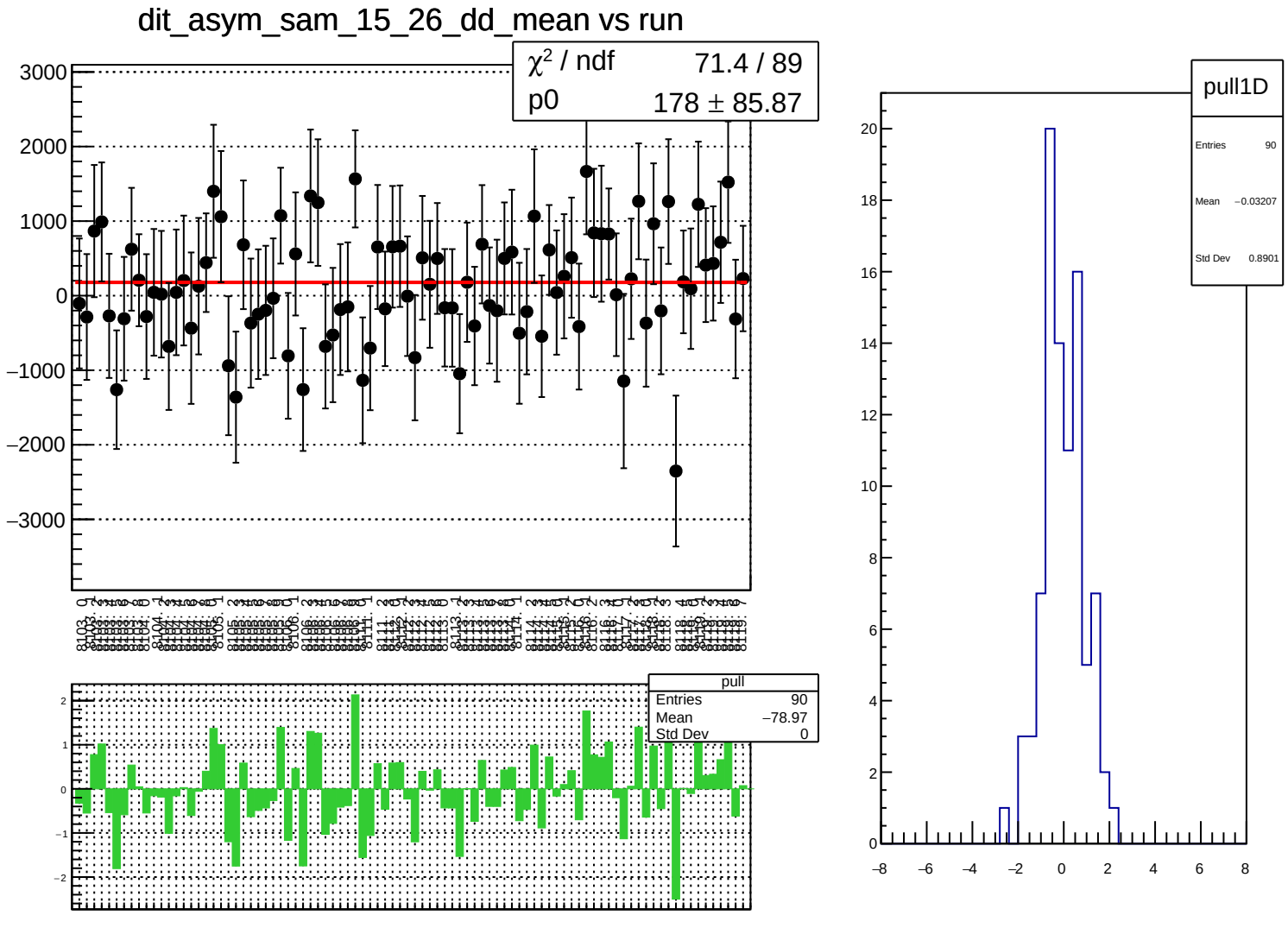

pull1D
Entries 90
Mean −0.0341
Std Dev 0.9139

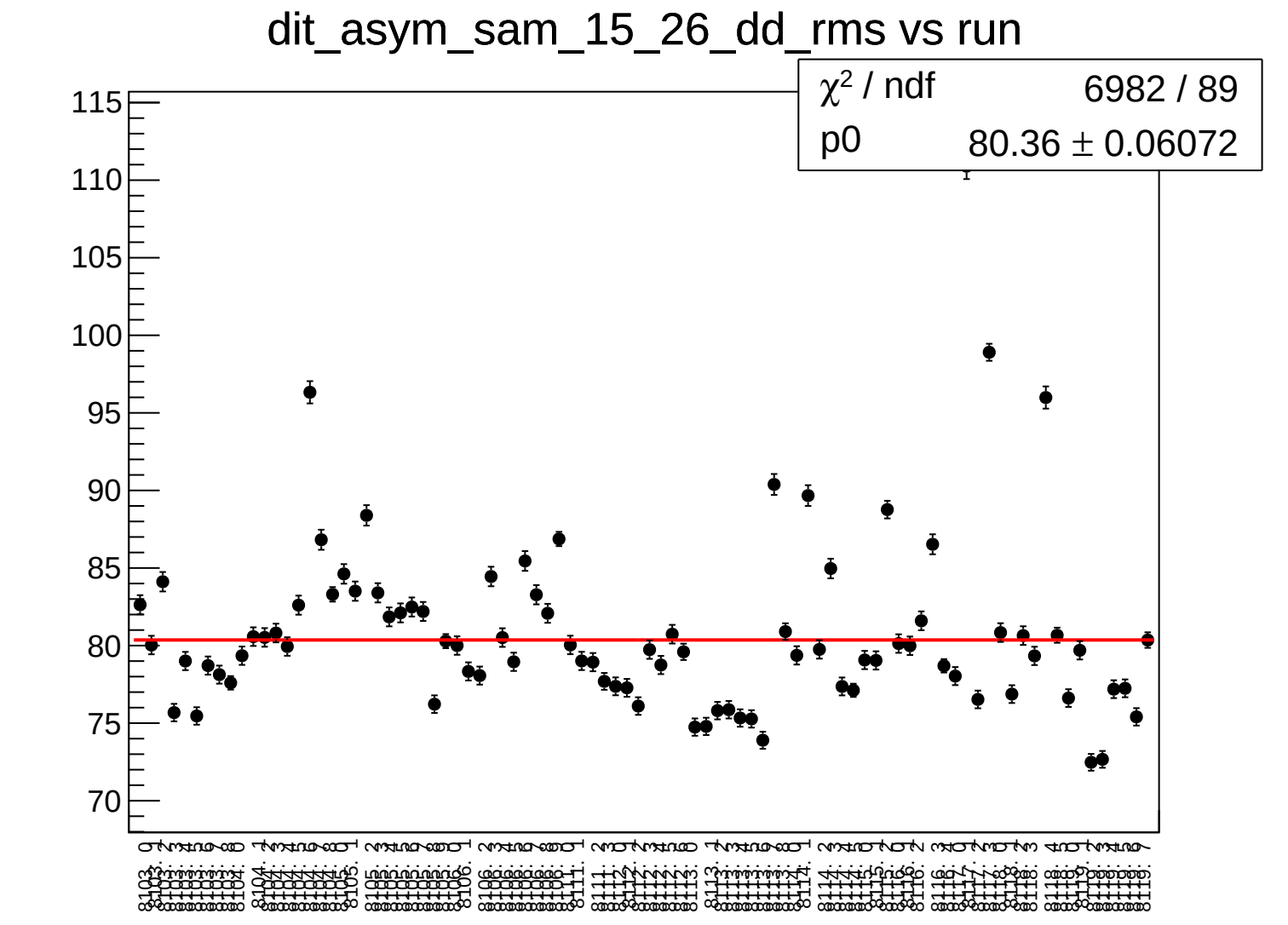

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 9017 / 89
p0 71.4 ± 0.05398
100
95
90
85
80
75
70
65

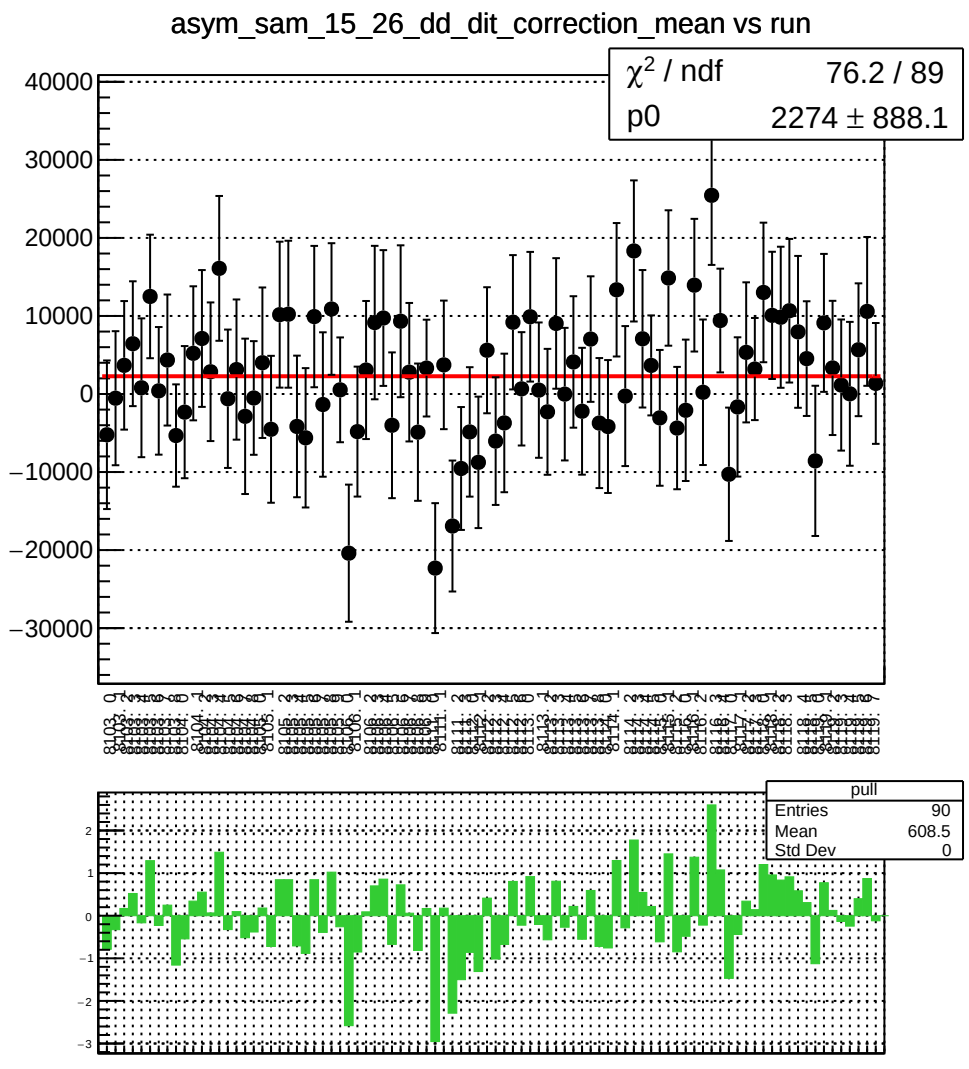

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.74 / 89
p0 2238 ± 875.4
pull
Entries 90
Mean 992.3
Std Dev 0

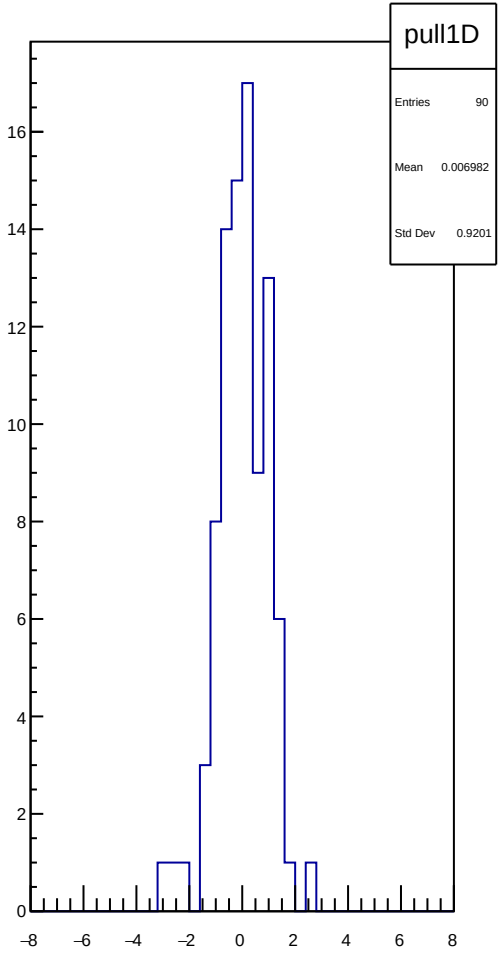

pull1D
Entries 90
Mean 0.004231
Std Dev 0.9234

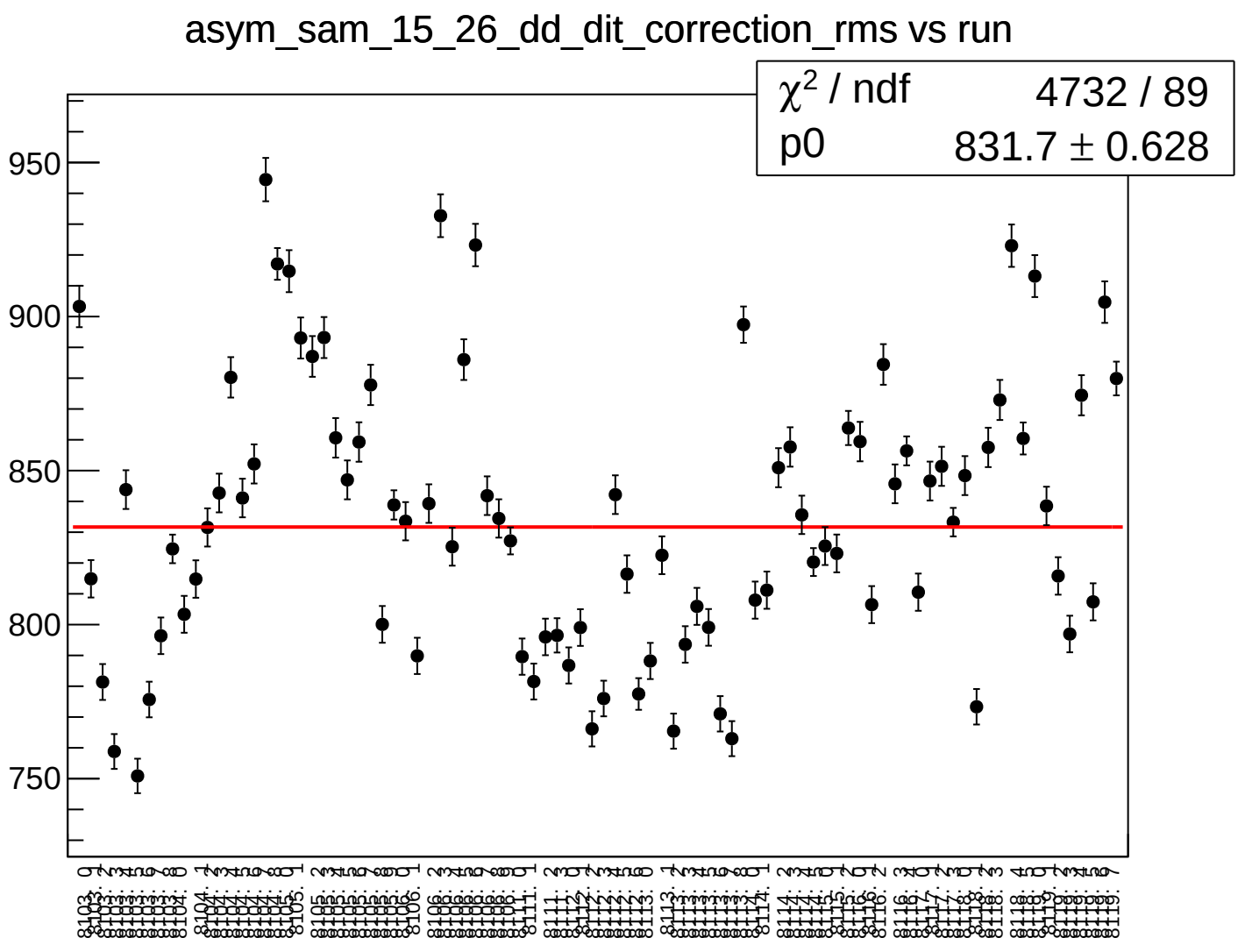

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4647 / 89
p0 819.8 ± 0.619
950
900
850
800
750

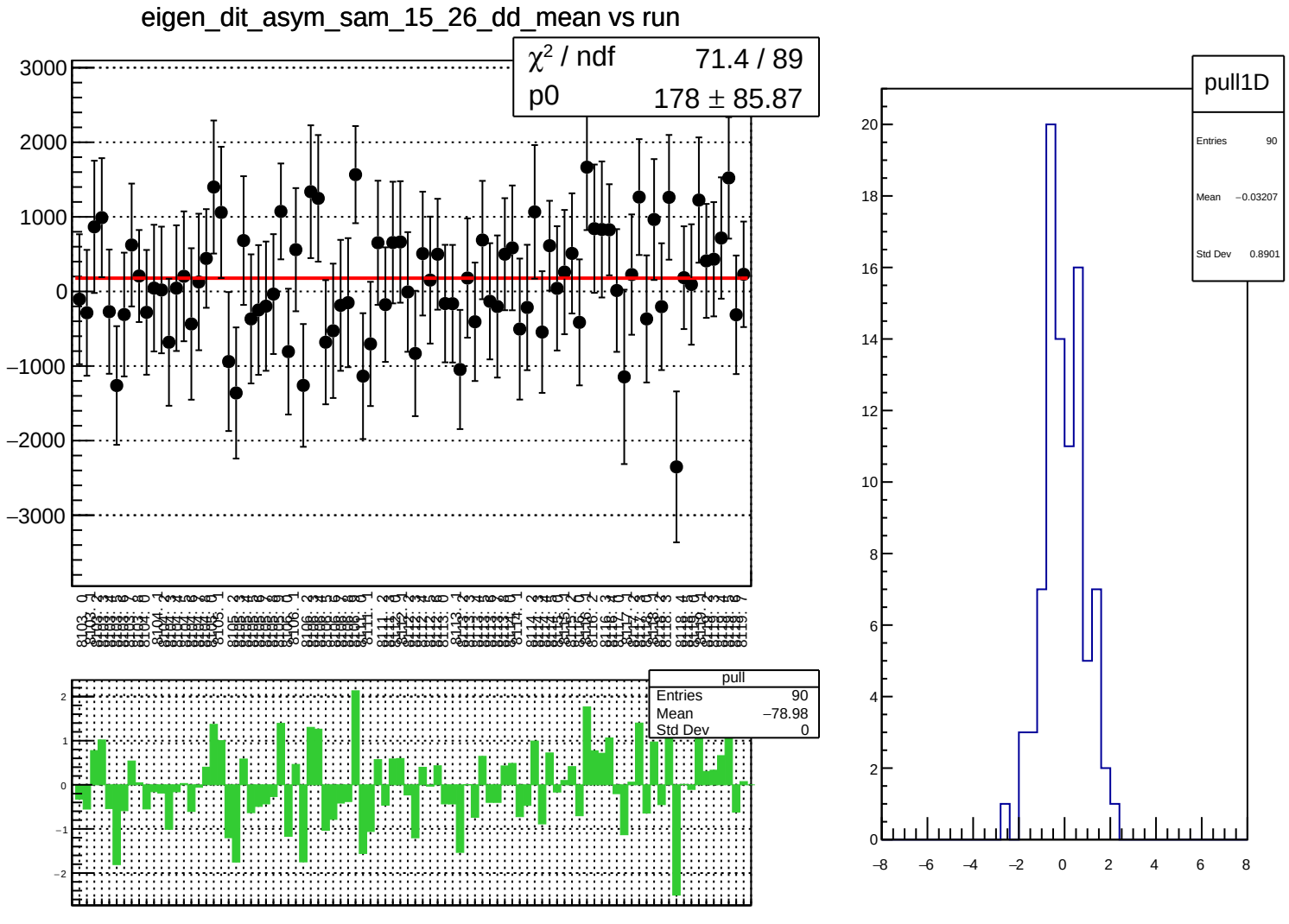

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 71.4 / 89
p0 178 ± 85.87
pull
Entries 90
Mean −78.97
Std Dev 0
pull1D
Entries 90
Mean −0.03207
Std Dev 0.8901

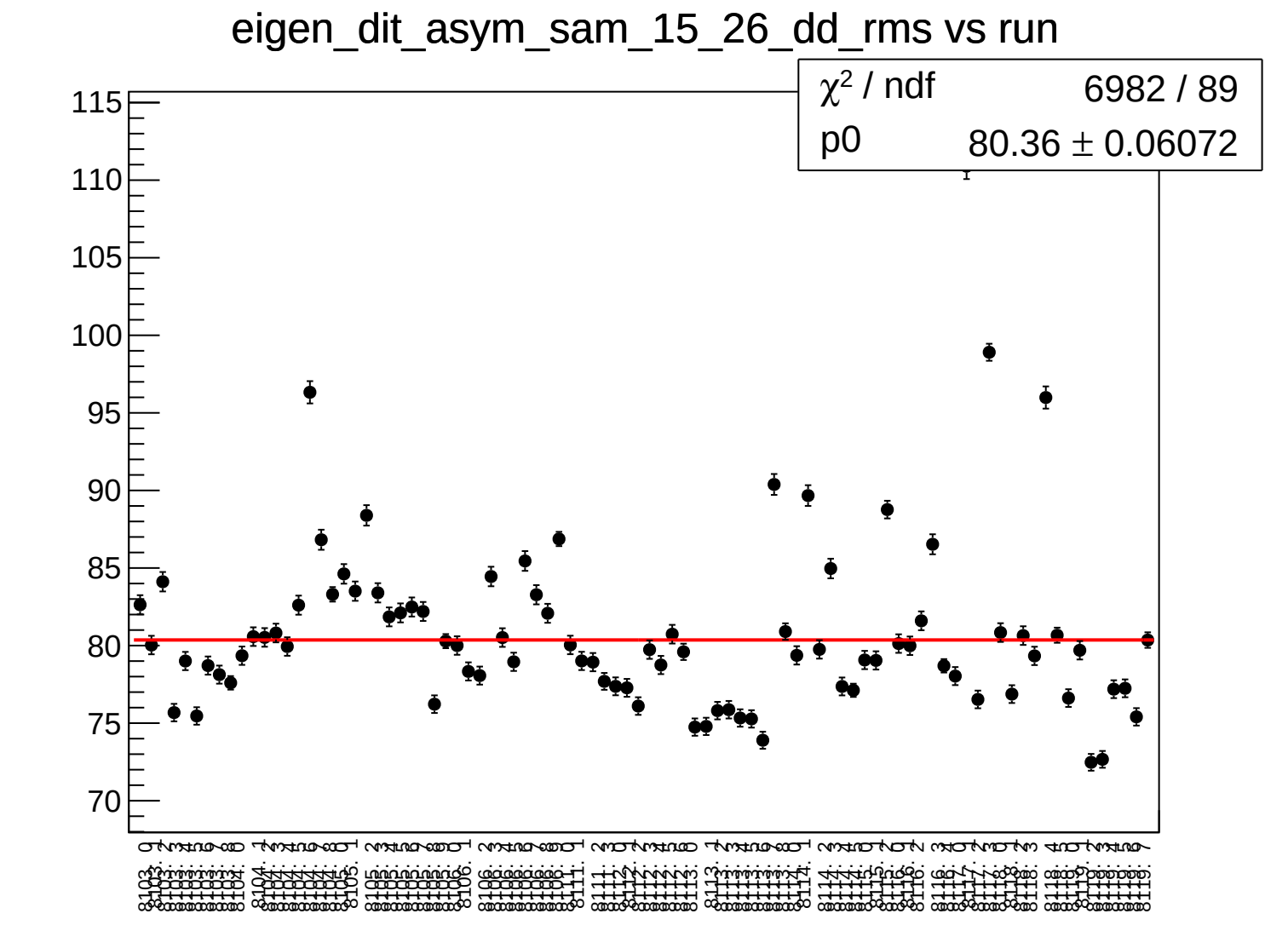

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 6982 / 89
p0 80.36 ± 0.06072
115
110
105
100
95
90
85
80
75
70

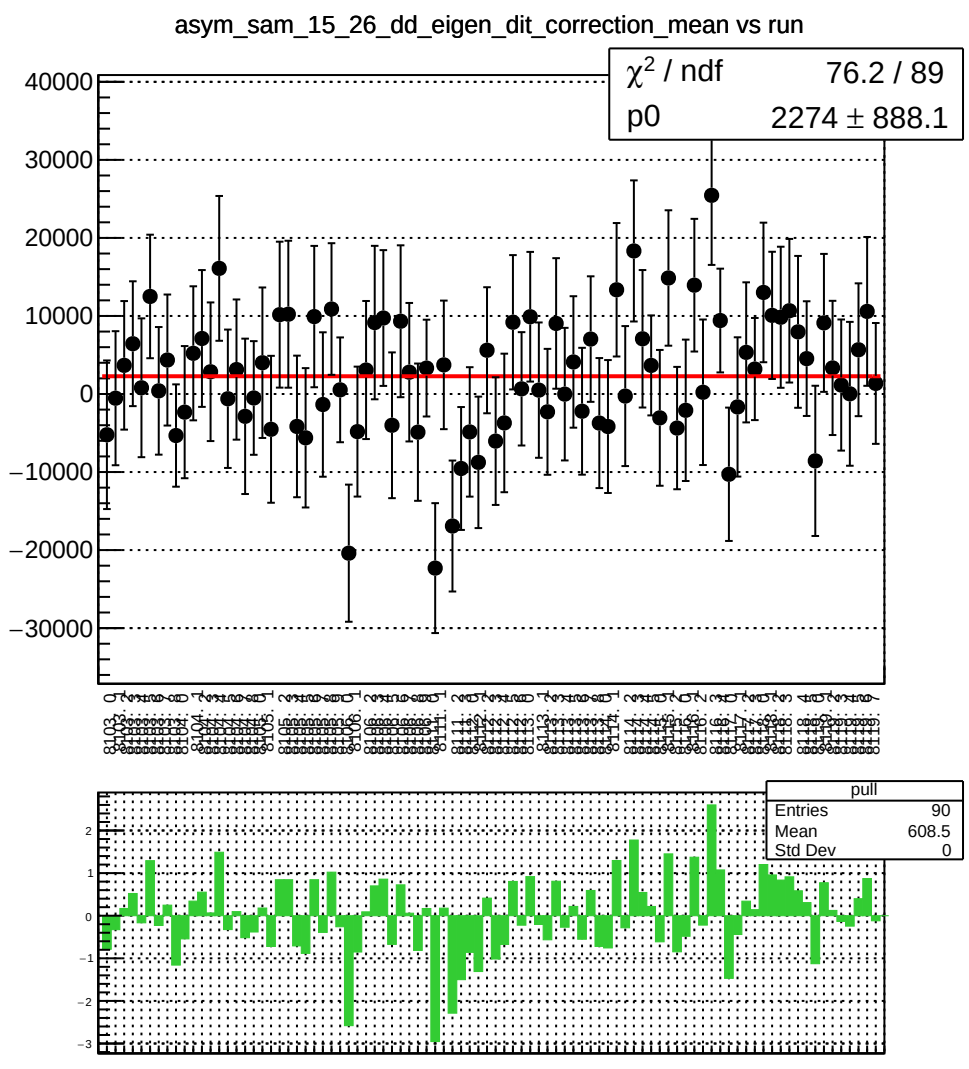

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 76.2 / 89
p0 2274 ± 888.1
pull
Entries 90
Mean 608.5
Std Dev 0

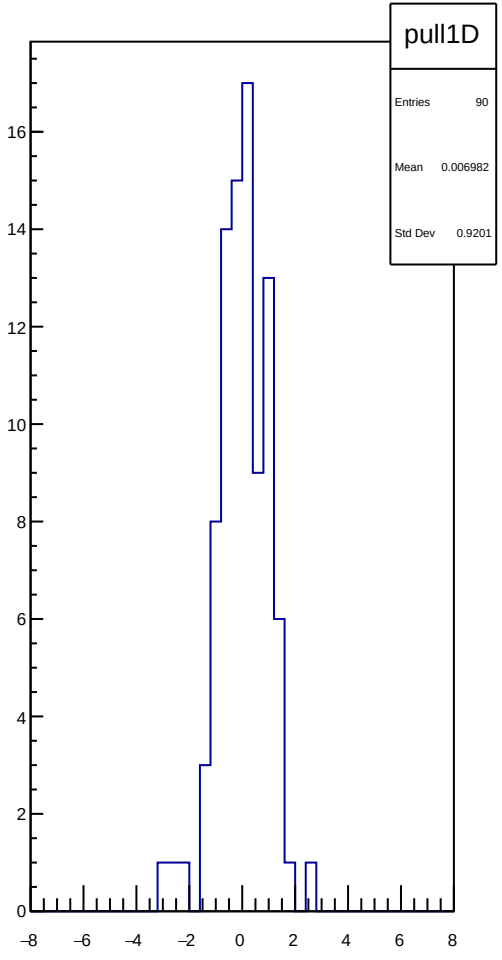

pull1D
Entries 90
Mean 0.006982
Std Dev 0.9201

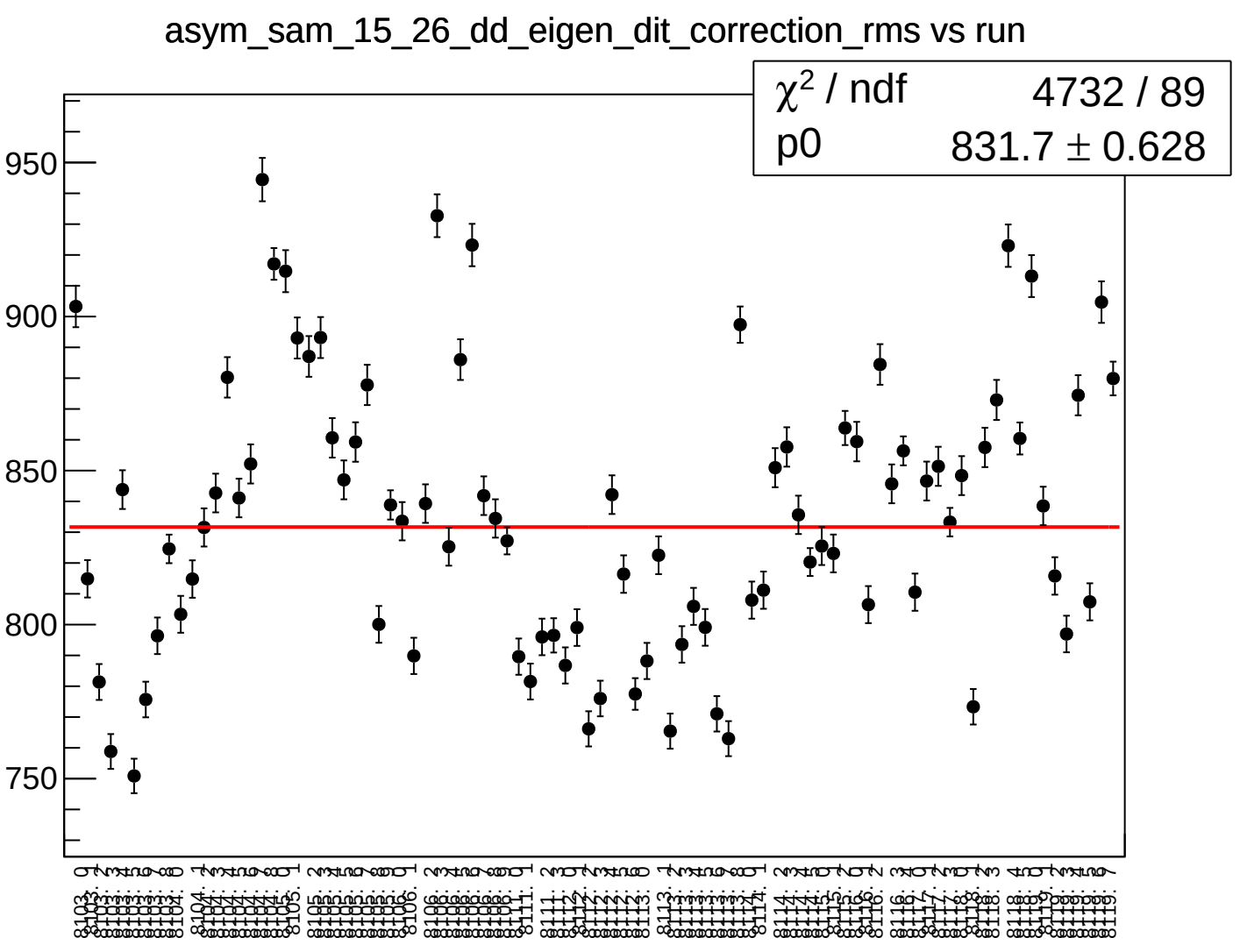

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 4732 / 89
p0 831.7 ± 0.628
950
900
850
800
750

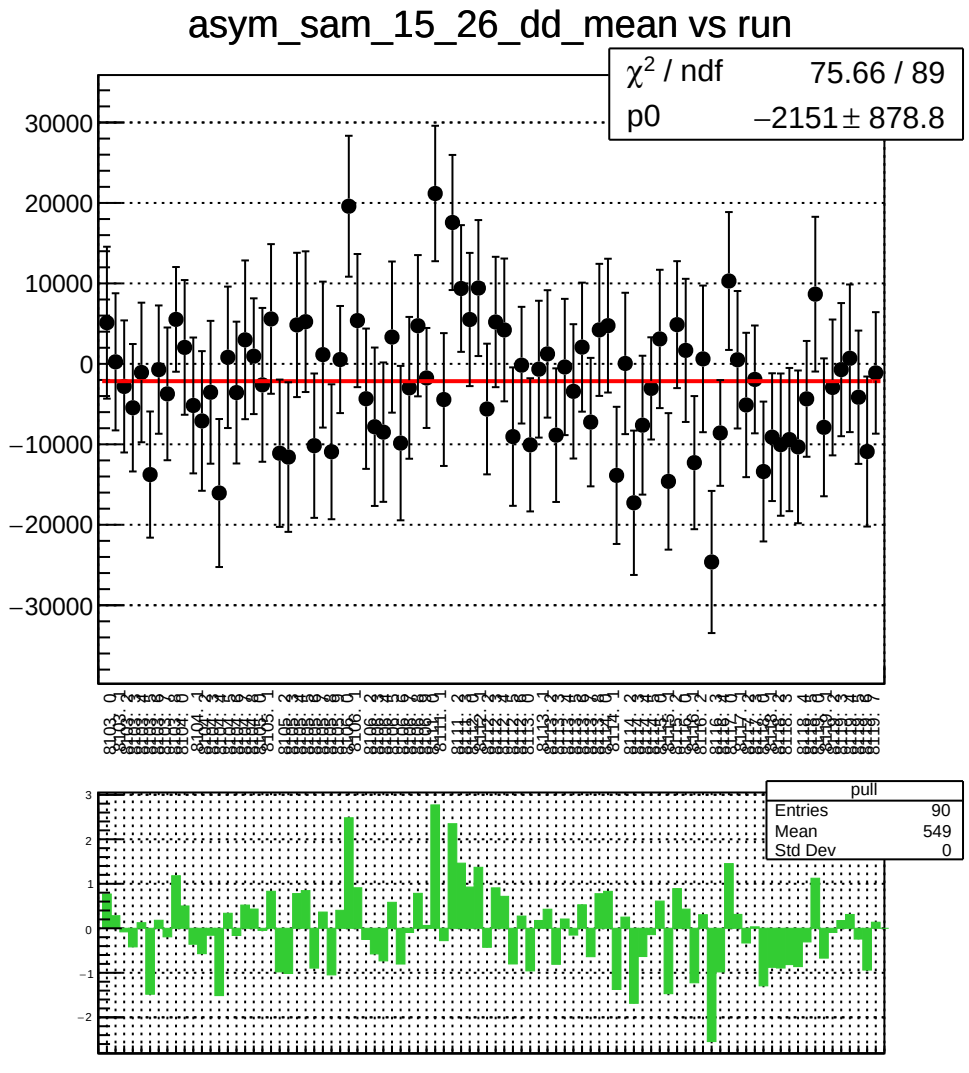

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 71.4 / 89
p0 178 ± 85.87
pull
Entries 90
Mean −78.98
Std Dev 0
pull1D
Entries 90
Mean −0.03207
Std Dev 0.8901

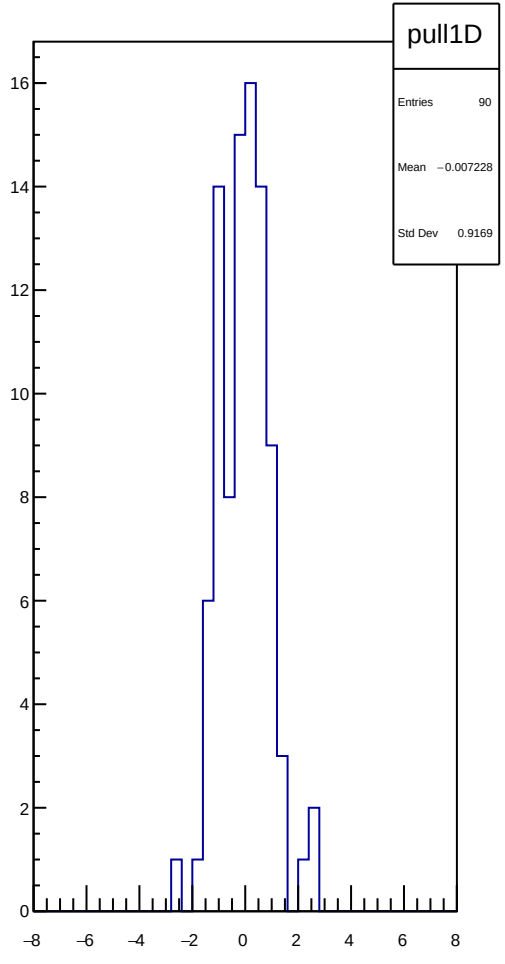

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 6982 / 89
p0 80.36 ± 0.06072
115
110
105
100
95
90
85
80
75
70

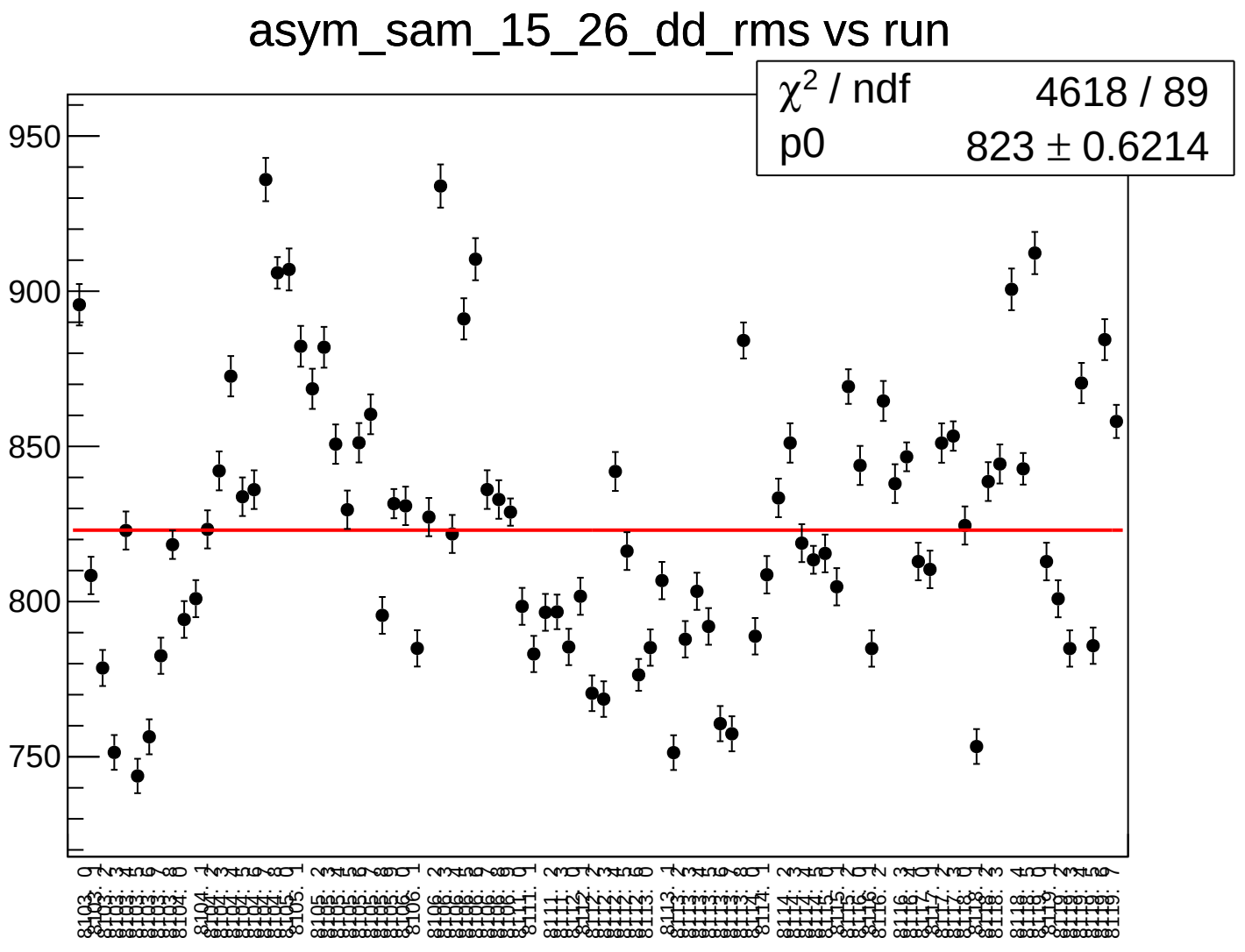

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.2 / 89
p0 2274 ± 888.1
pull
Entries 90
Mean 608.5
Std Dev 0

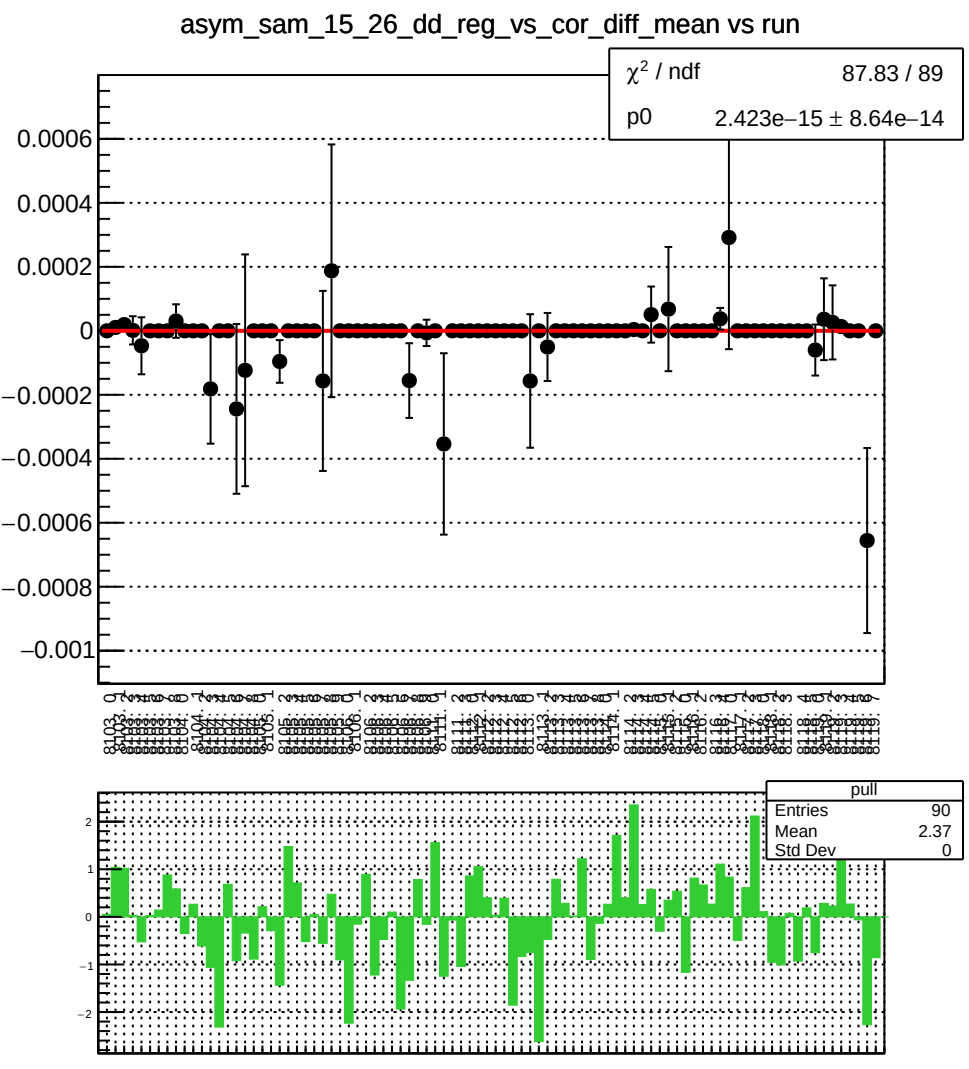

pull1D
Entries 90
Mean 0.006982
Std Dev 0.9201

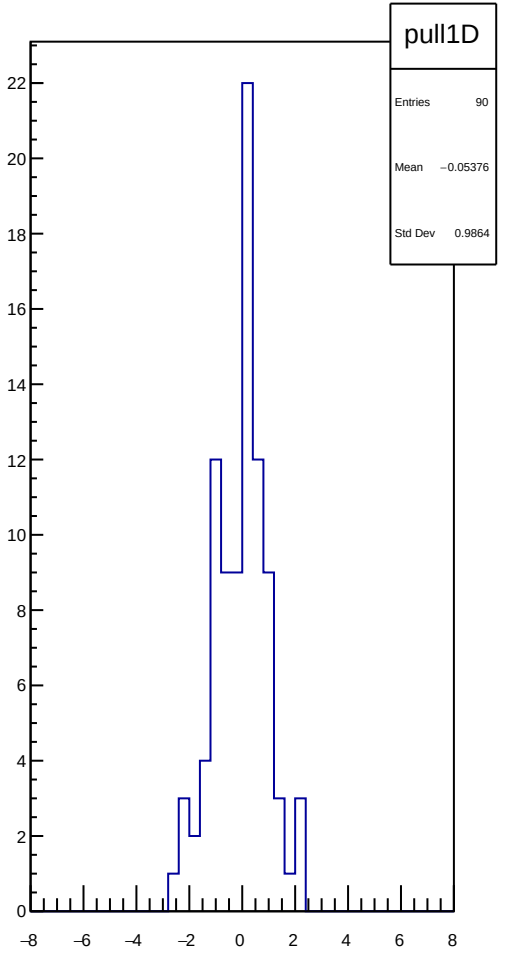

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4732 / 89
p0 831.7 ± 0.628
950
900
850
800
750

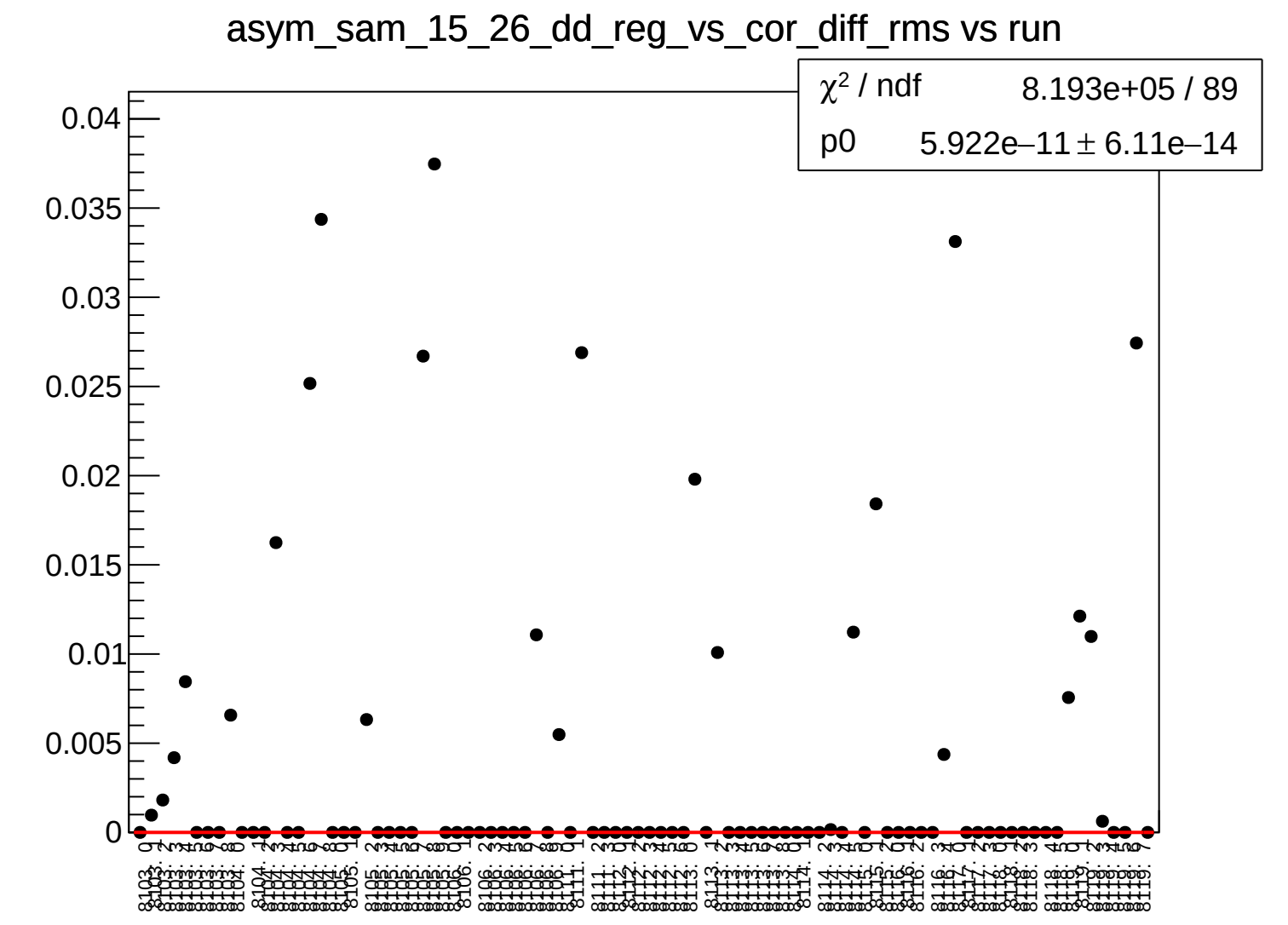

asym_sam_15_26_dd_mean vs run
χ² / ndf 75.66 / 89
p0 −2151 ± 878.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 90
Mean 549
Std Dev 0
3
2
1
0
−1
−2

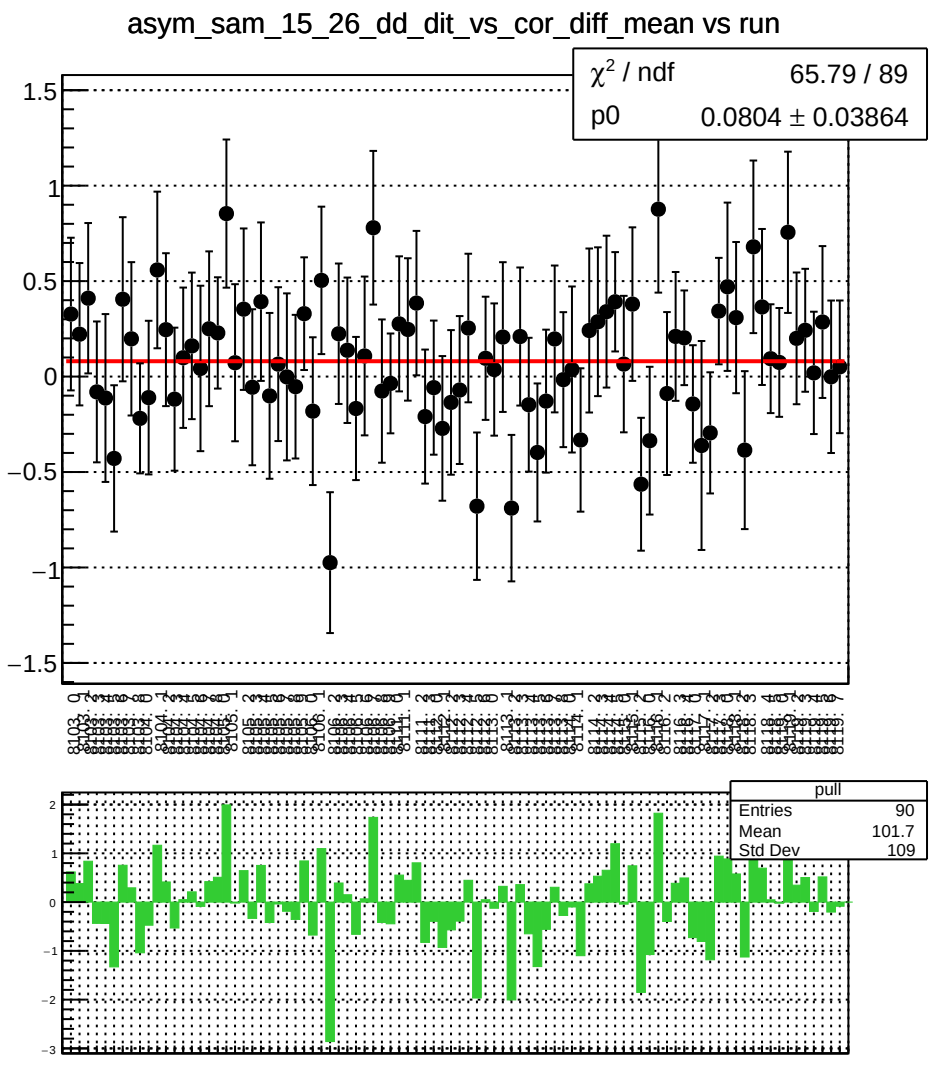

pull1D
Entries 90
Mean −0.007228
Std Dev 0.9169
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

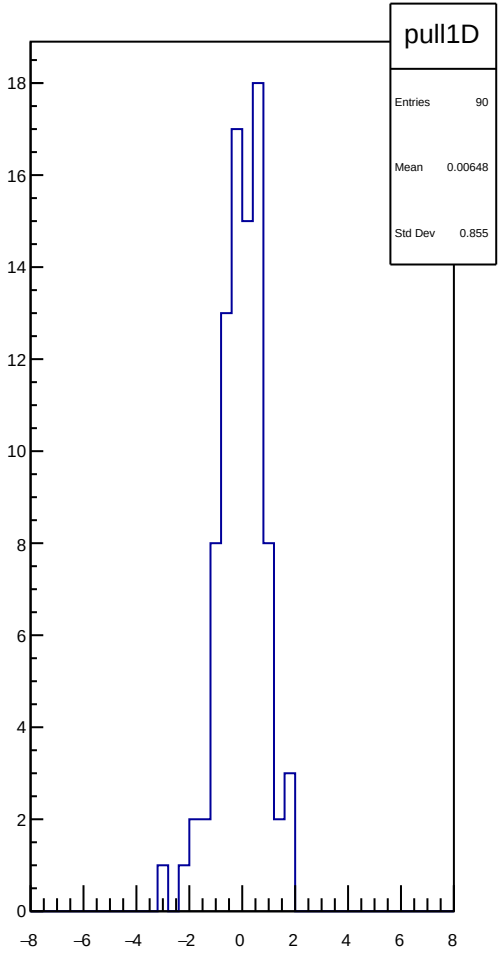

asym_sam_15_26_dd_rms vs run
χ² / ndf 4618 / 89
p0 823 ± 0.6214
950
900
850
800
750

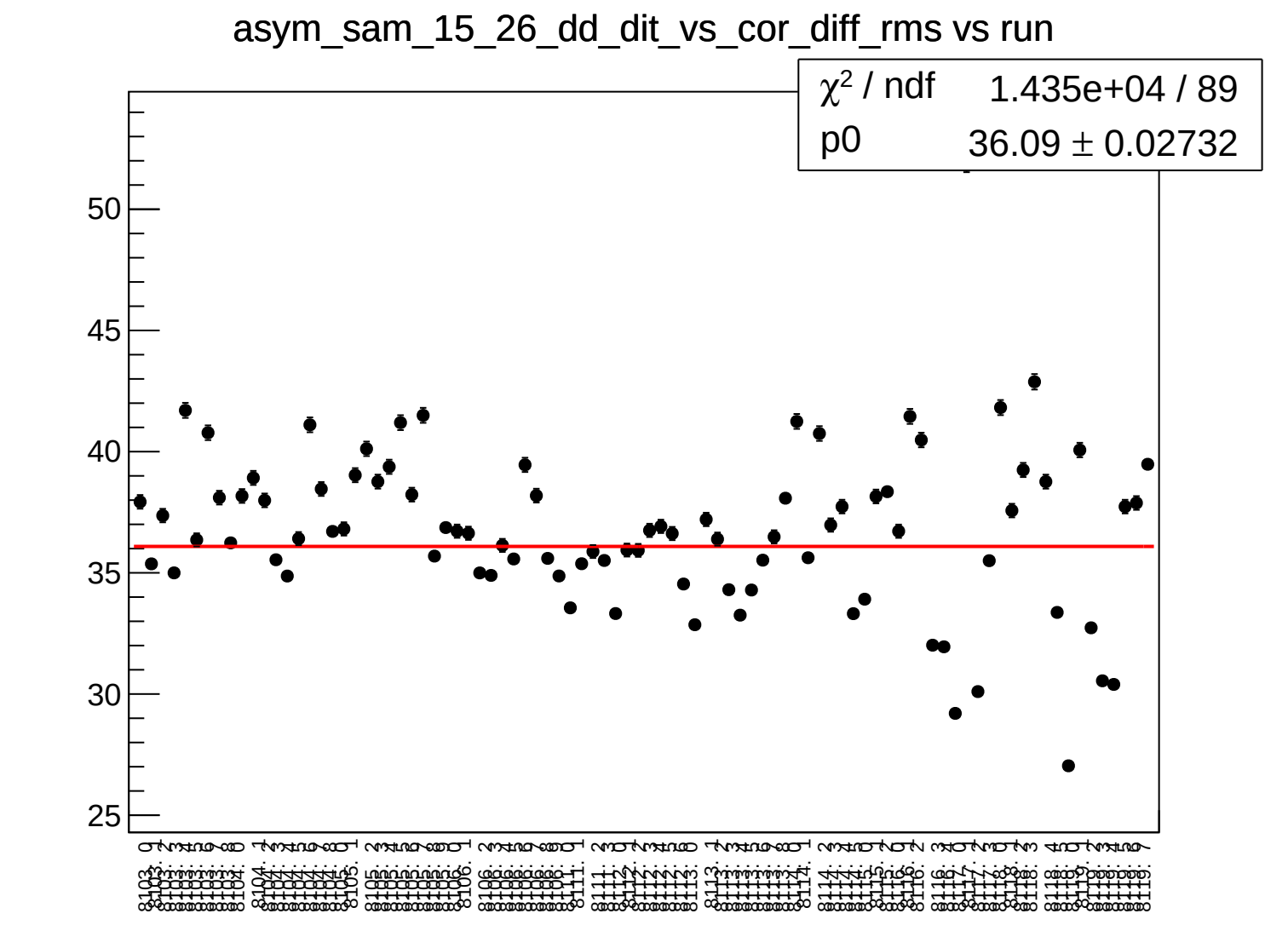

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.83 / 89
p0 2.423e−15 ± 8.64e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 90
Mean 2.37
Std Dev 0
2
1
0
−1
−2

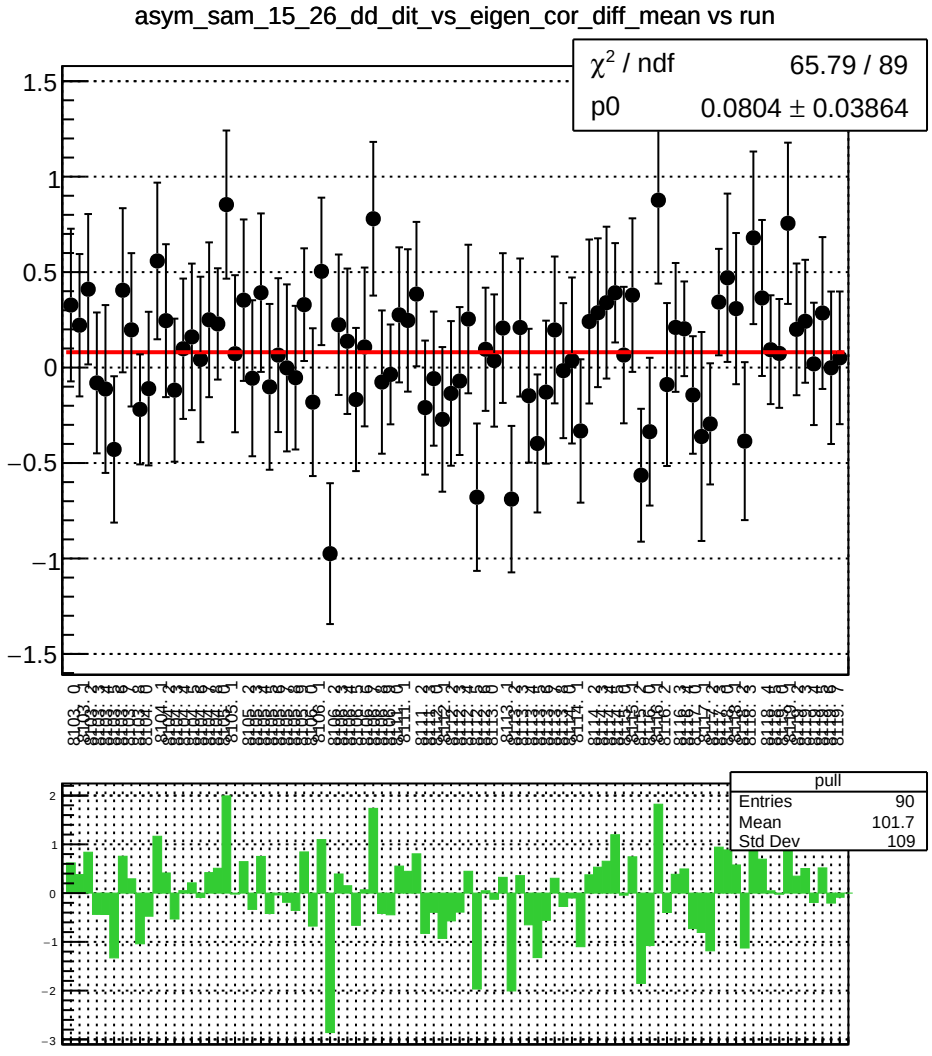

pull1D
Entries 90
Mean −0.05376
Std Dev 0.9864
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

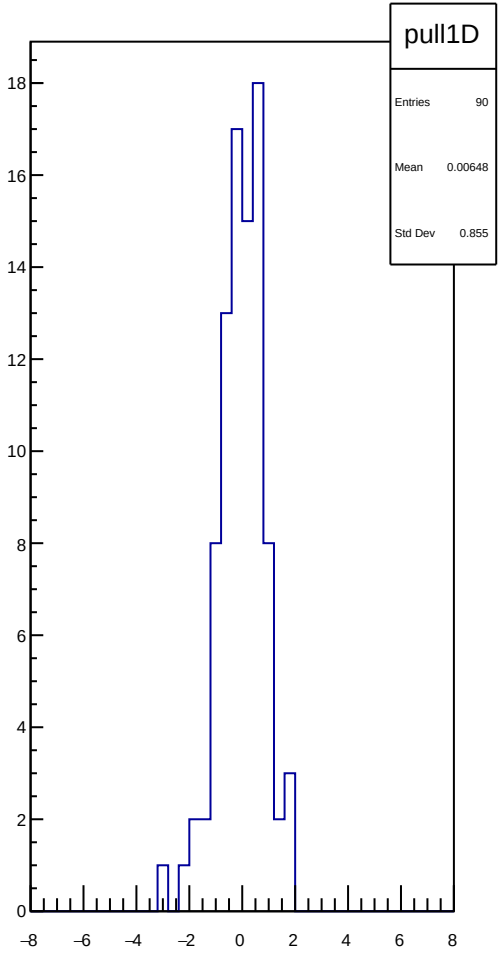

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.193e+05 / 89
p0 5.922e−11 ± 6.11e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

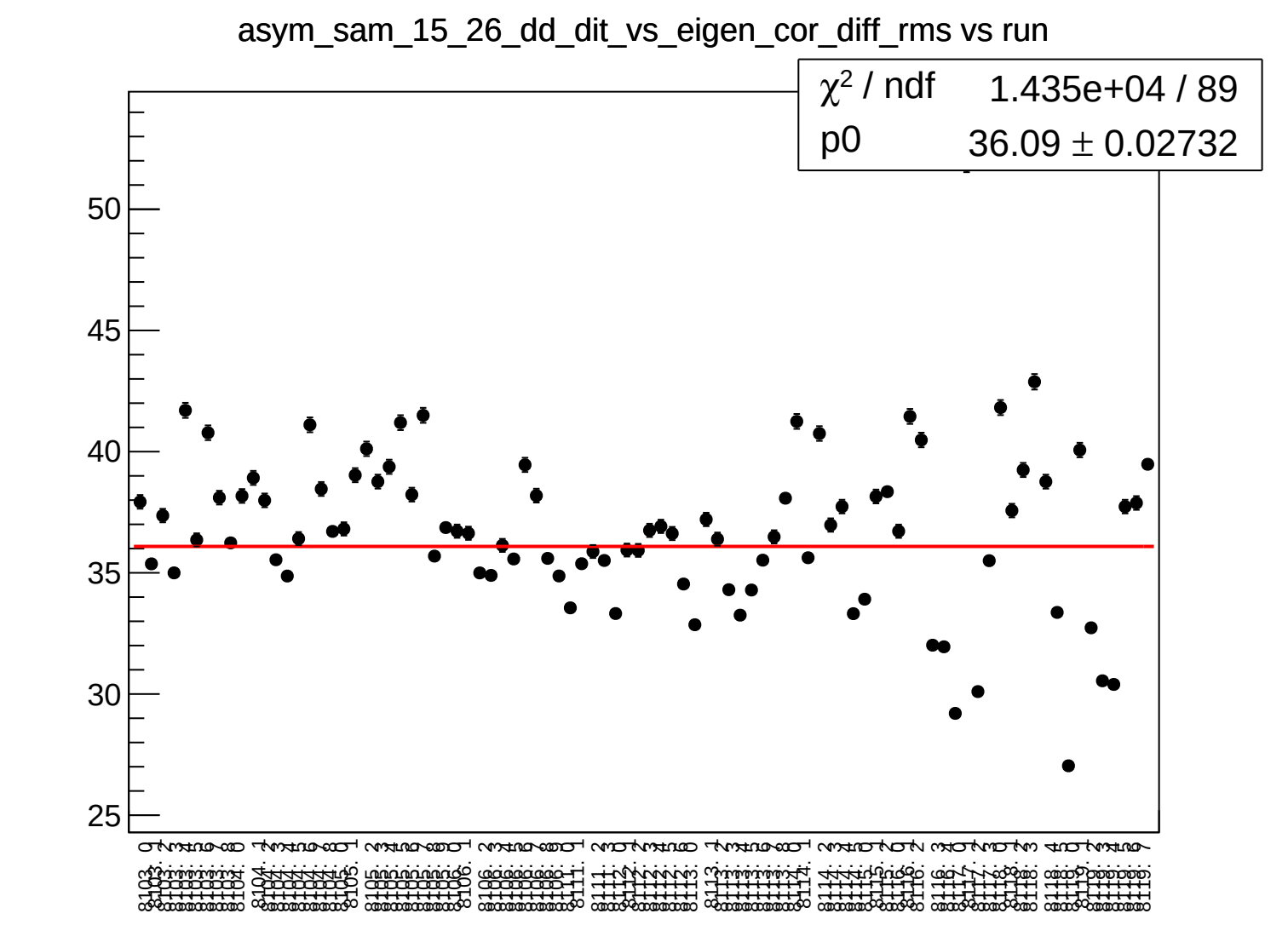

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.79 / 89
p0 0.0804 ± 0.03864
pull
Entries 90
Mean 101.7
Std Dev 109

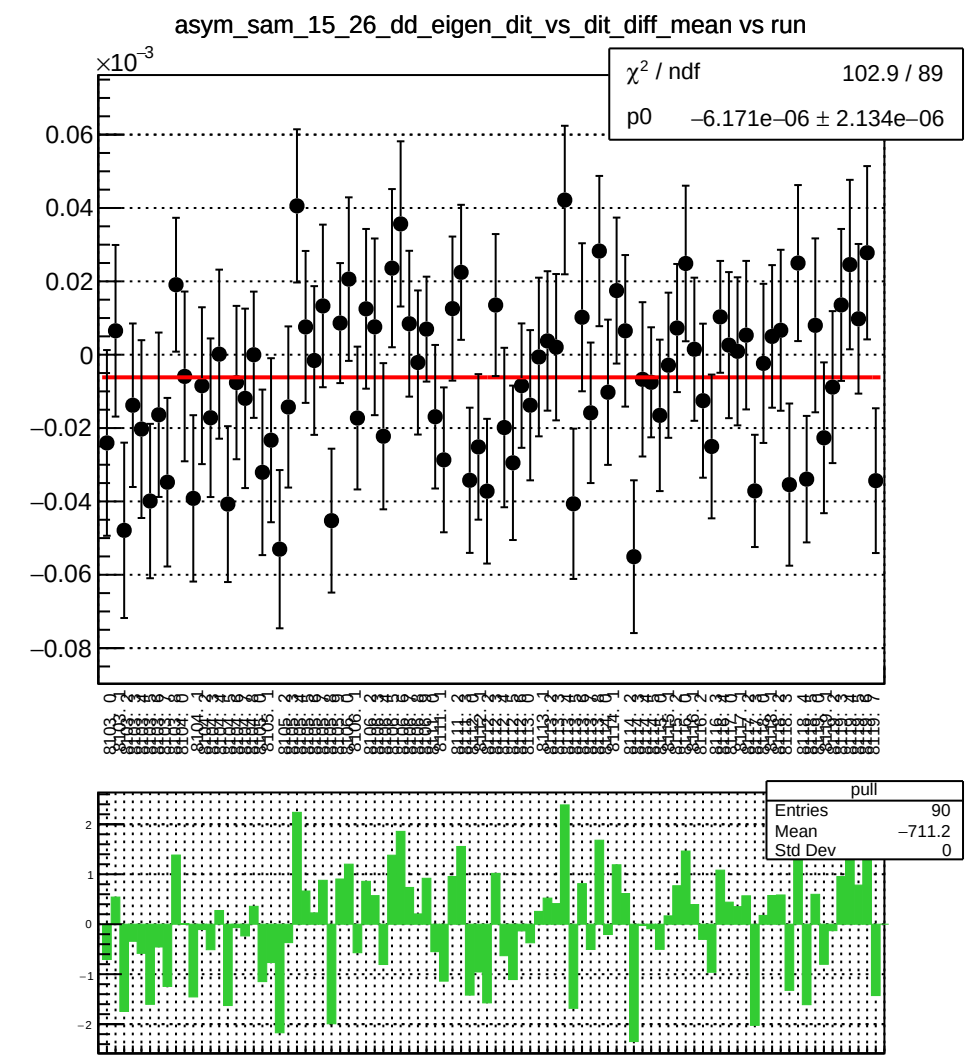

pull1D
Entries 90
Mean 0.00648
Std Dev 0.855

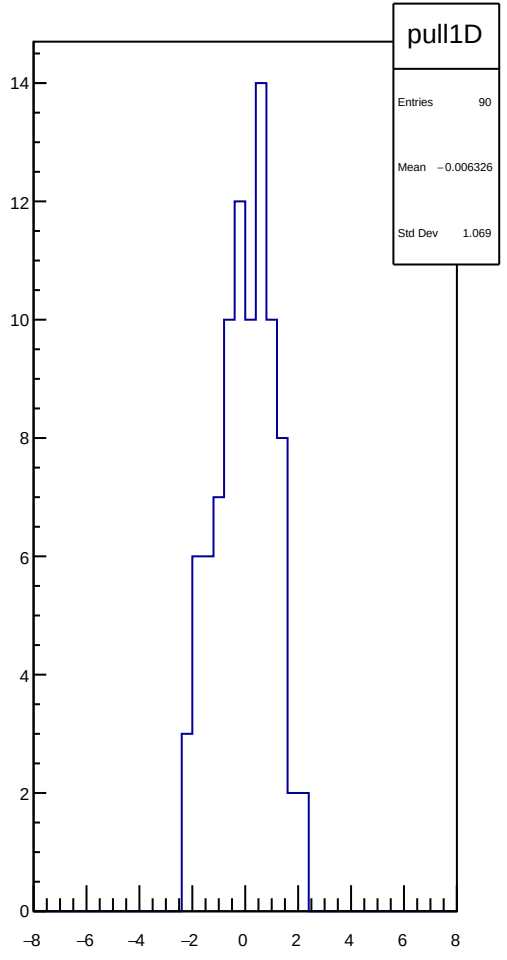

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.435e+04 / 89
p0 36.09 ± 0.02732
50
45
40
35
30
25

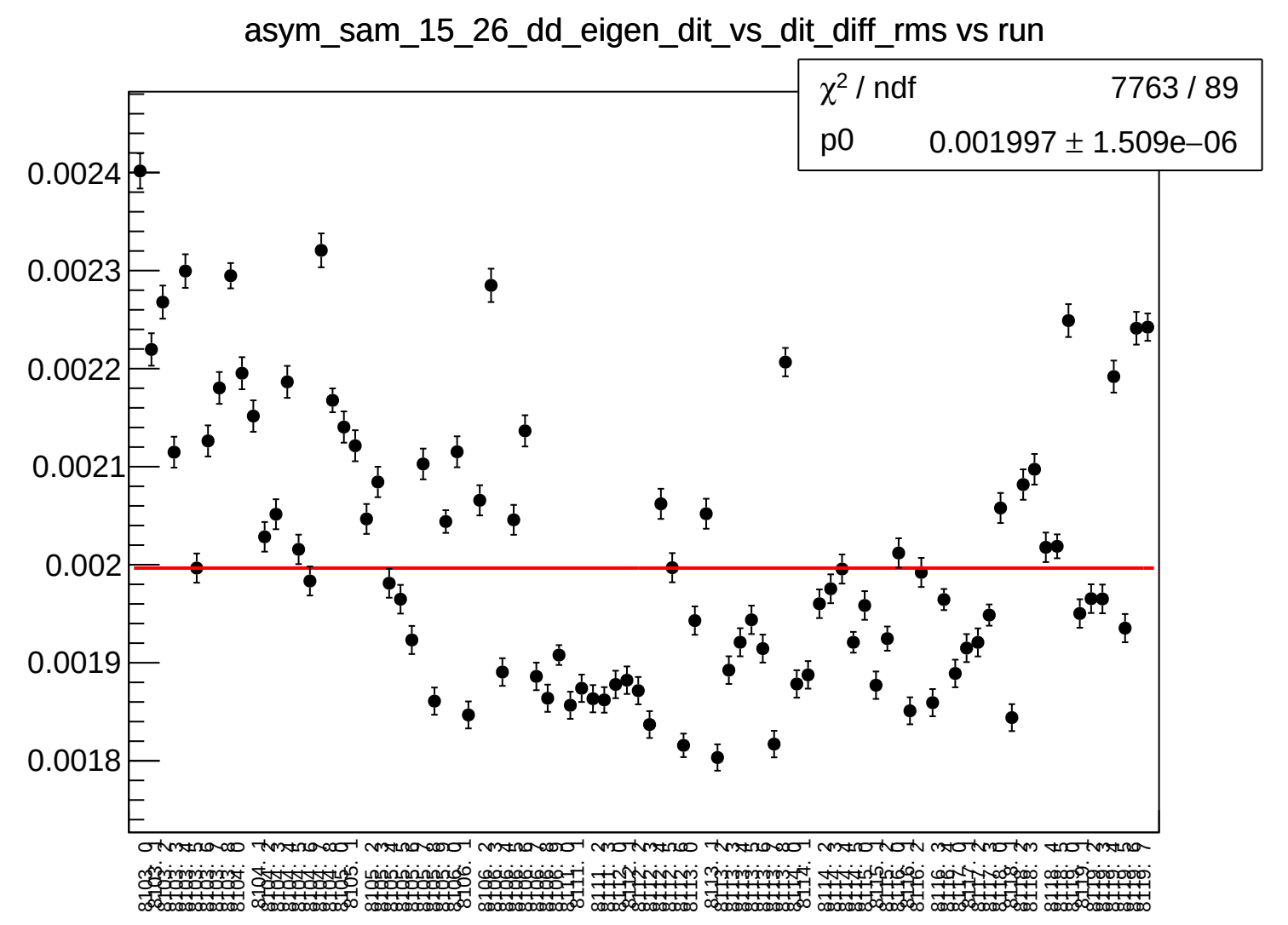

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.79 / 89
p0 0.0804 ± 0.03864
pull
Entries 90
Mean 101.7
Std Dev 109

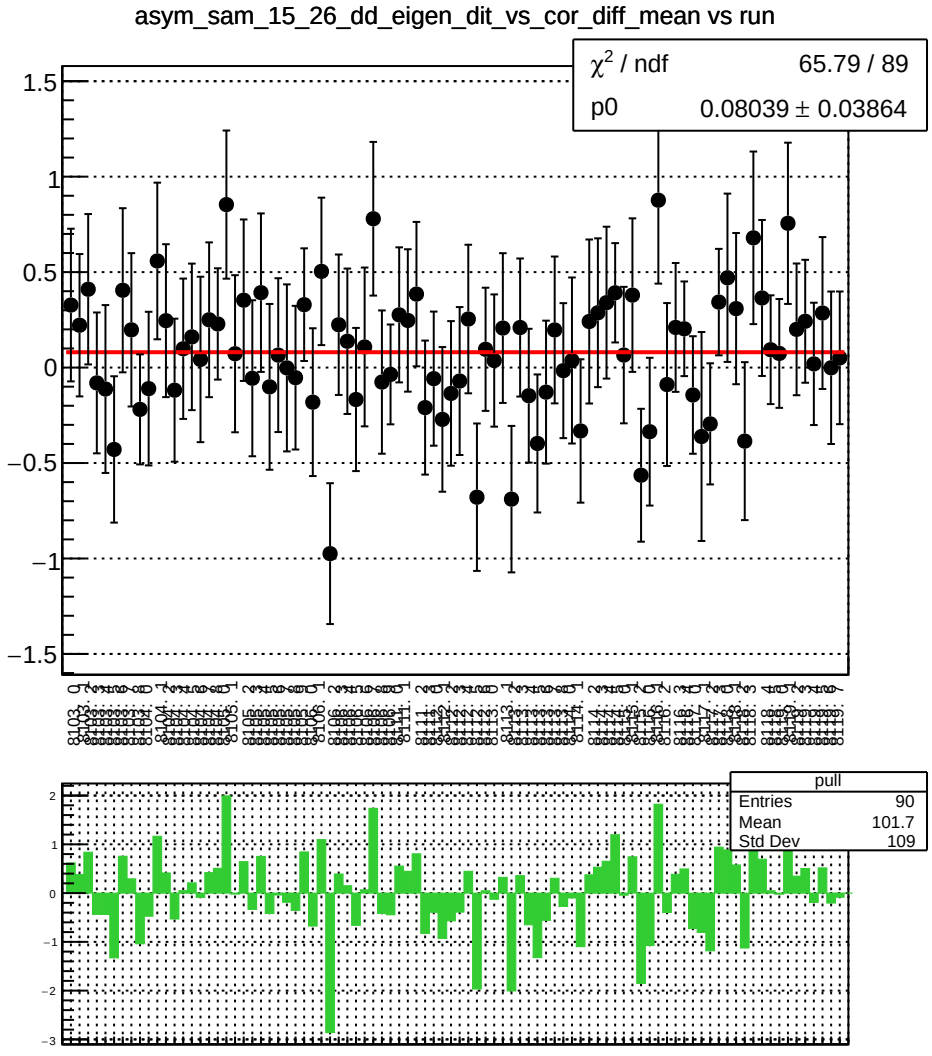

pull1D
Entries 90
Mean 0.00648
Std Dev 0.855

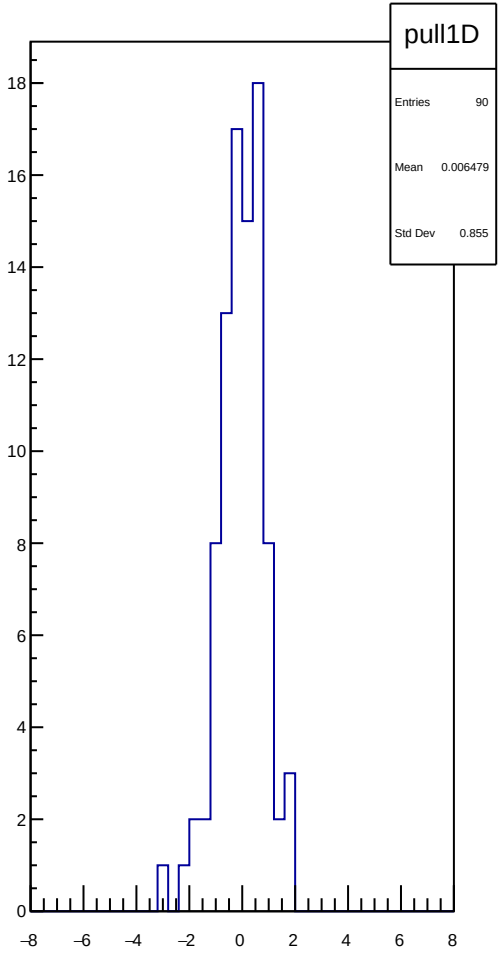

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.435e+04 / 89
p0 36.09 ± 0.02732
50
45
40
35
30
25

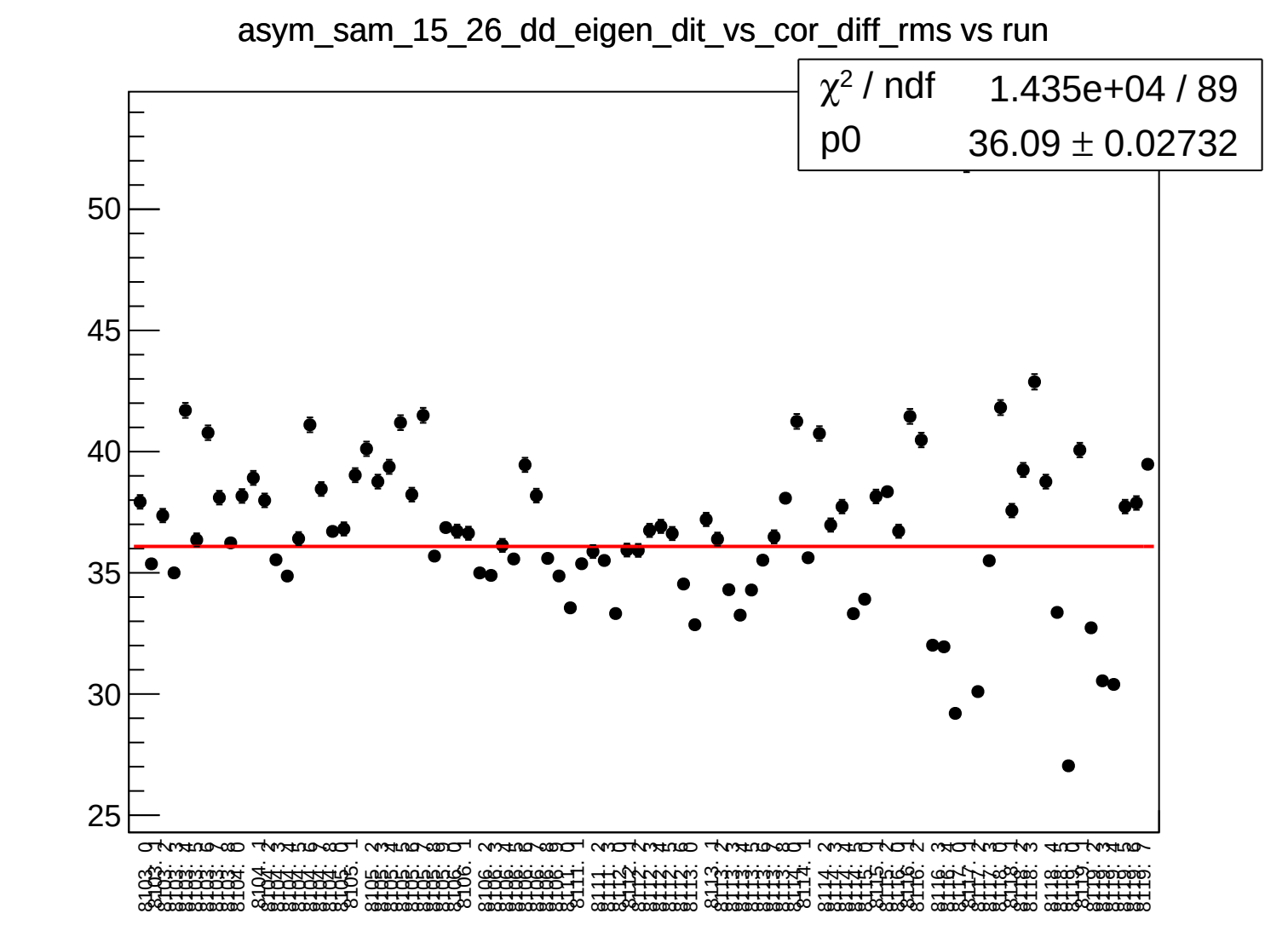

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 89
p0 −6.171e−06 ± 2.134e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 90
Mean −711.2
Std Dev 0
2
1
0
−1
−2

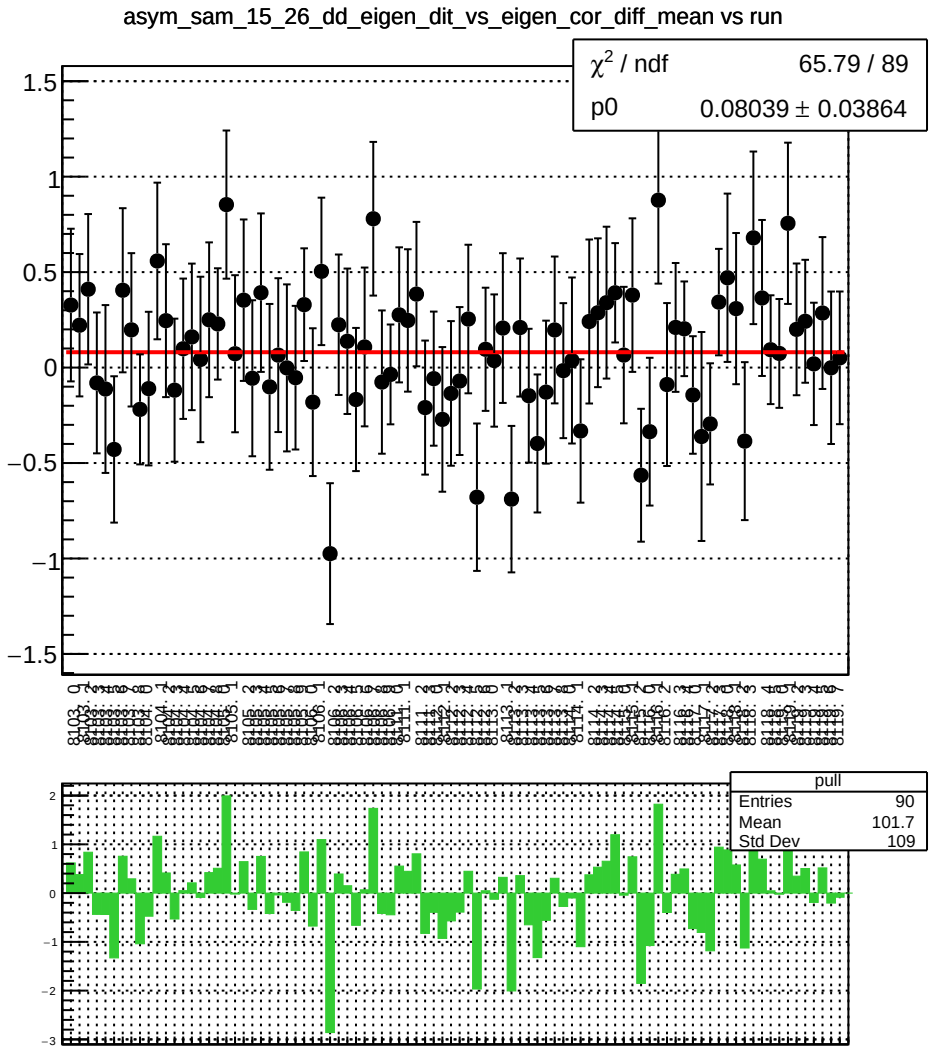

pull1D
Entries 90
Mean −0.006326
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

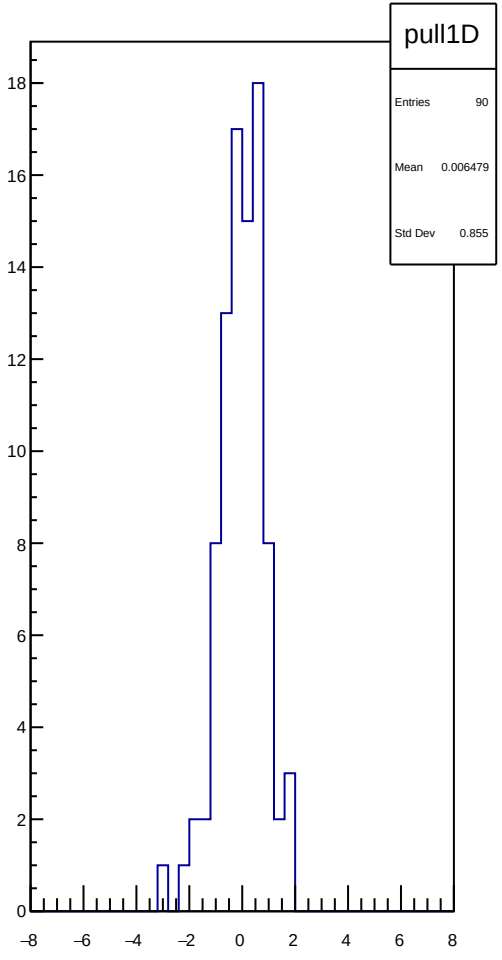

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7763 / 89
p0 0.001997 ± 1.509e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

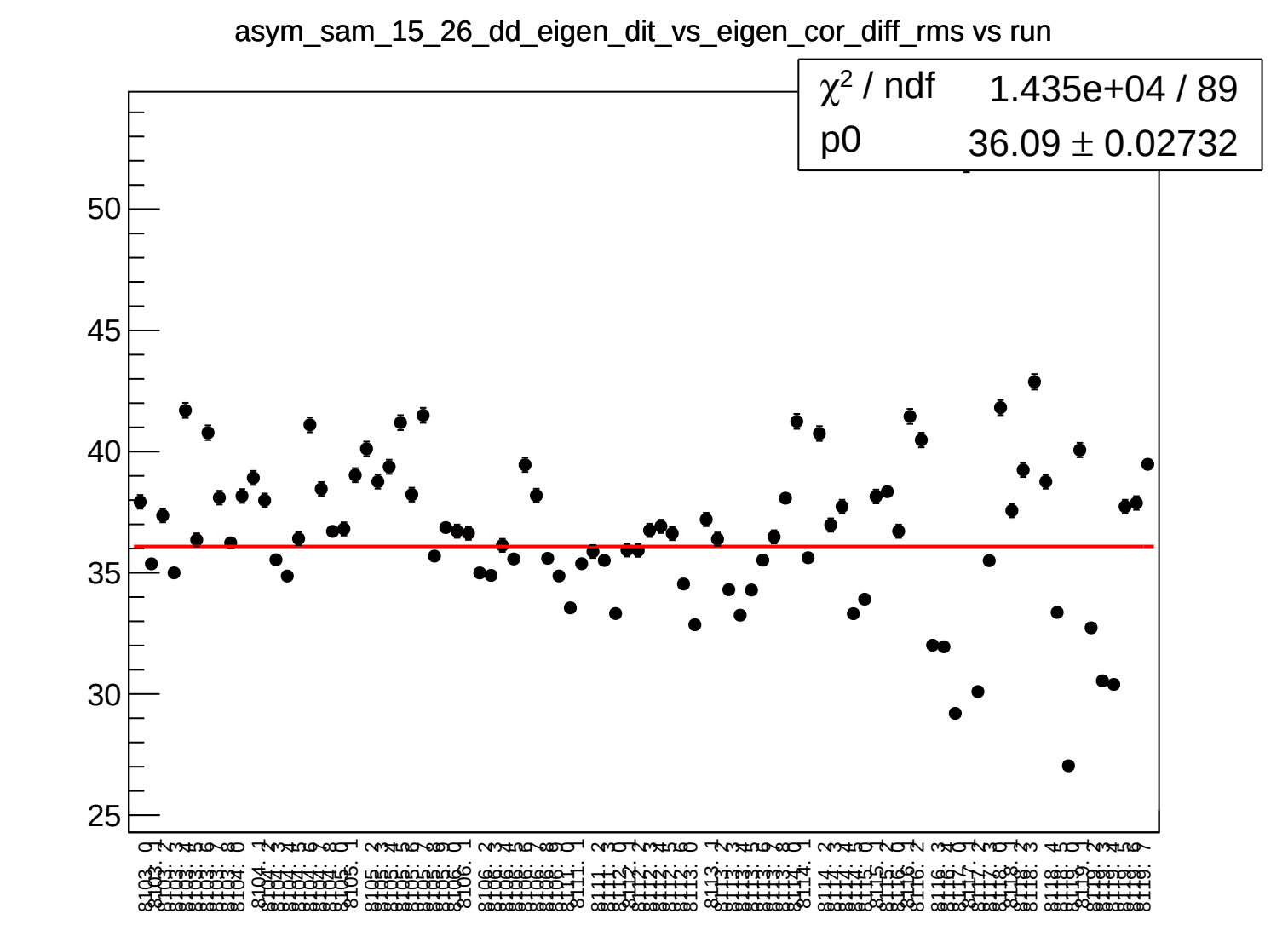

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.79 / 89
p0 0.08039 ± 0.03864
pull
Entries 90
Mean 101.7
Std Dev 109

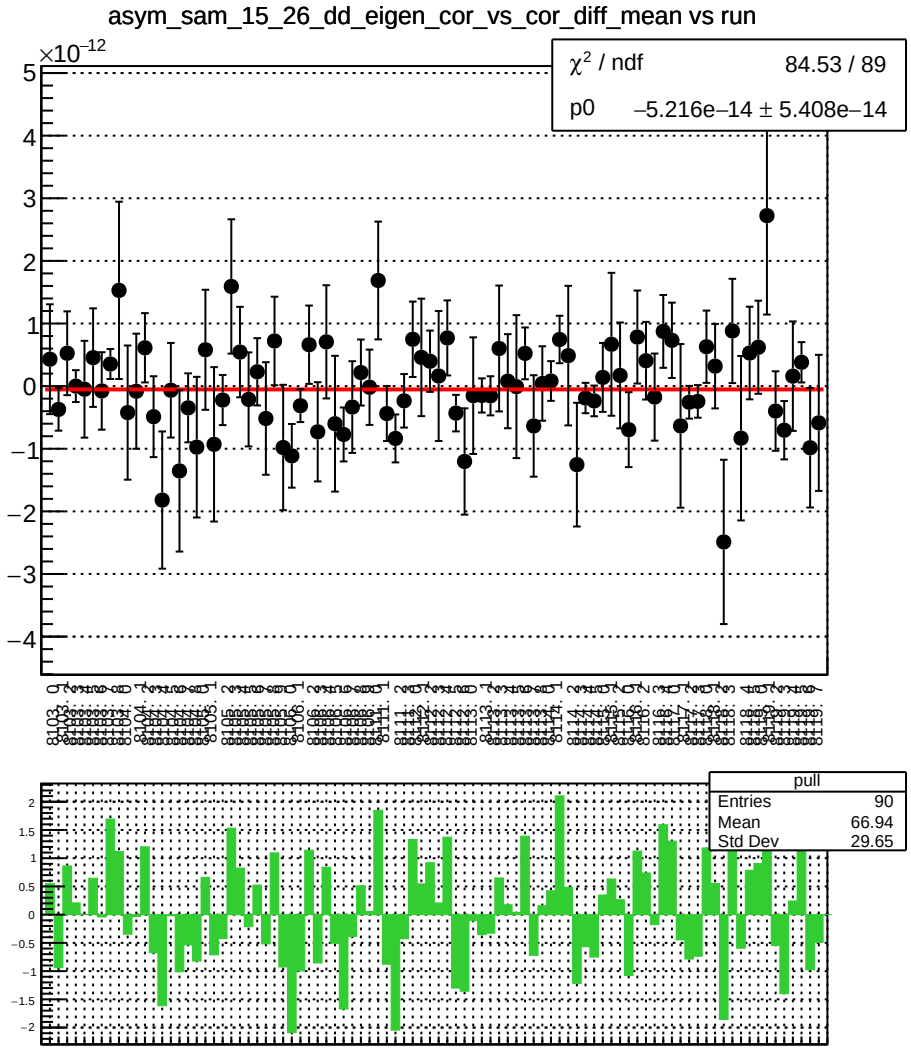

pull1D
Entries 90
Mean 0.006479
Std Dev 0.855

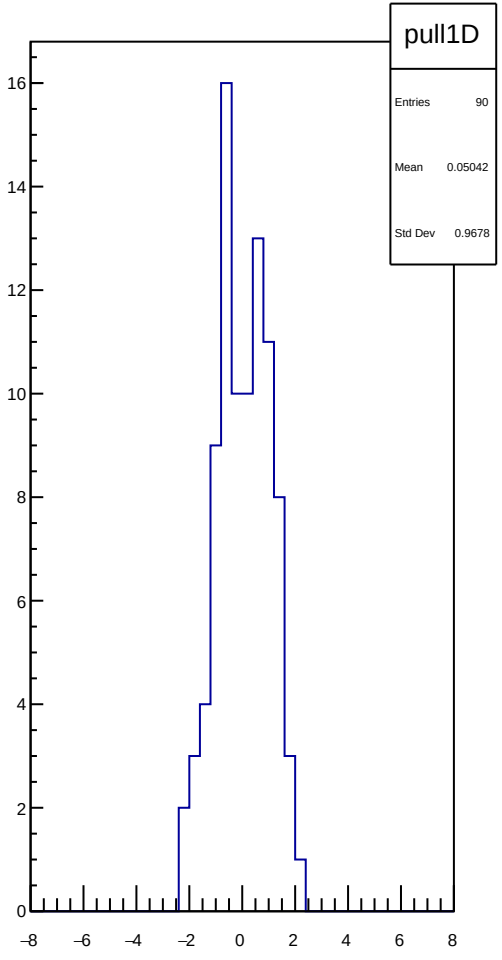

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.435e+04 / 89
p0 36.09 ± 0.02732
50
45
40
35
30
25

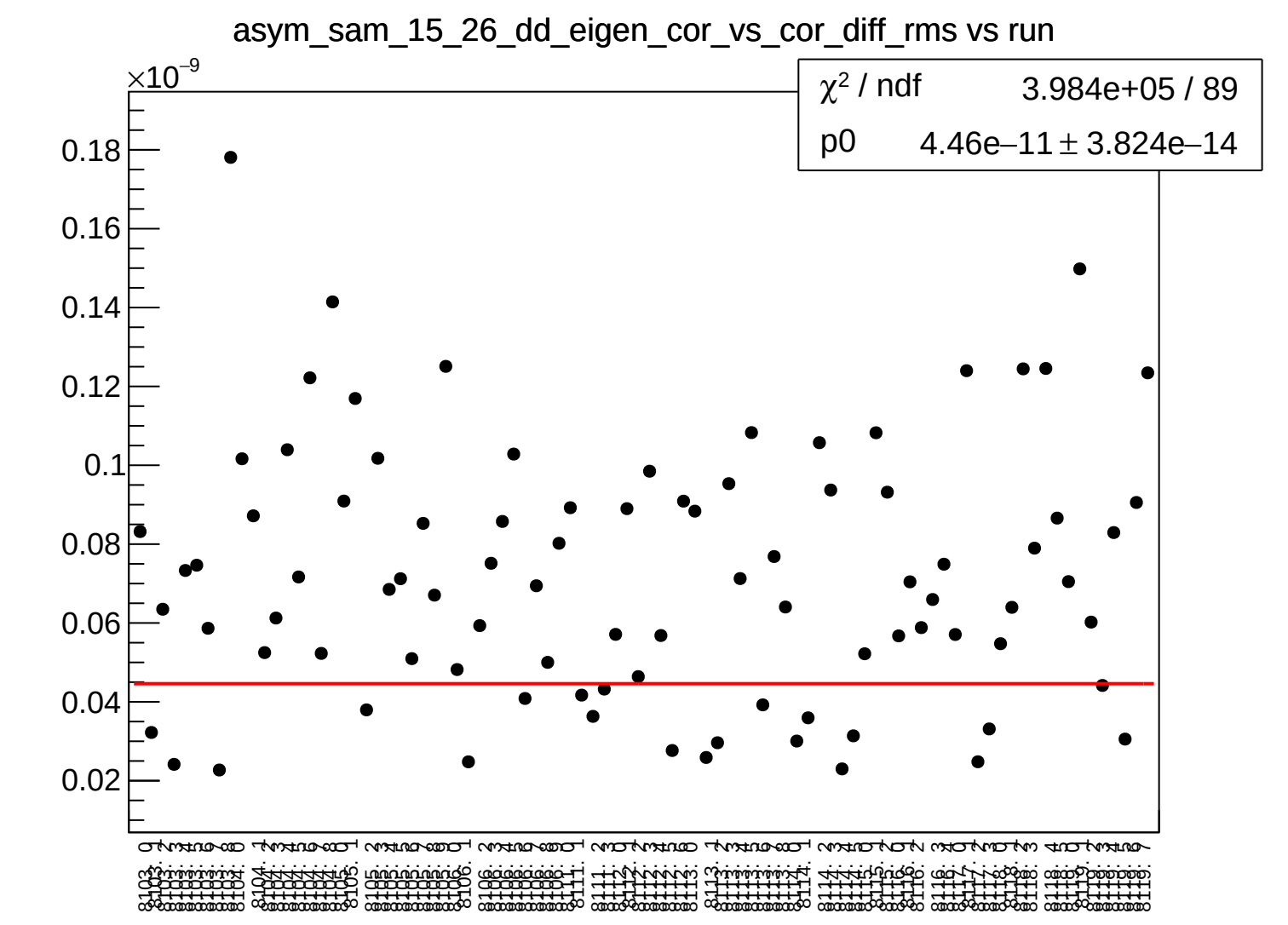

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.79 / 89
p0 0.08039 ± 0.03864
pull
Entries 90
Mean 101.7
Std Dev 109

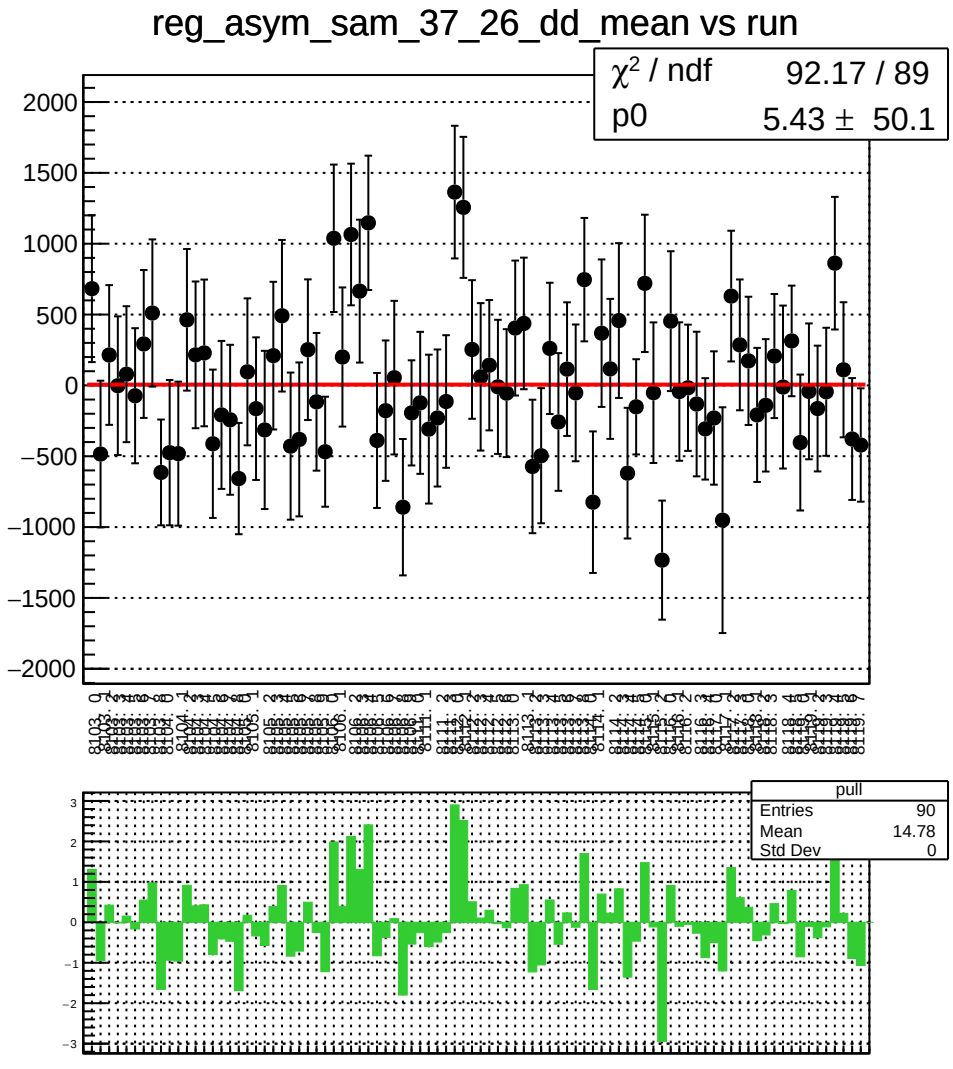

pull1D
Entries 90
Mean 0.006479
Std Dev 0.855

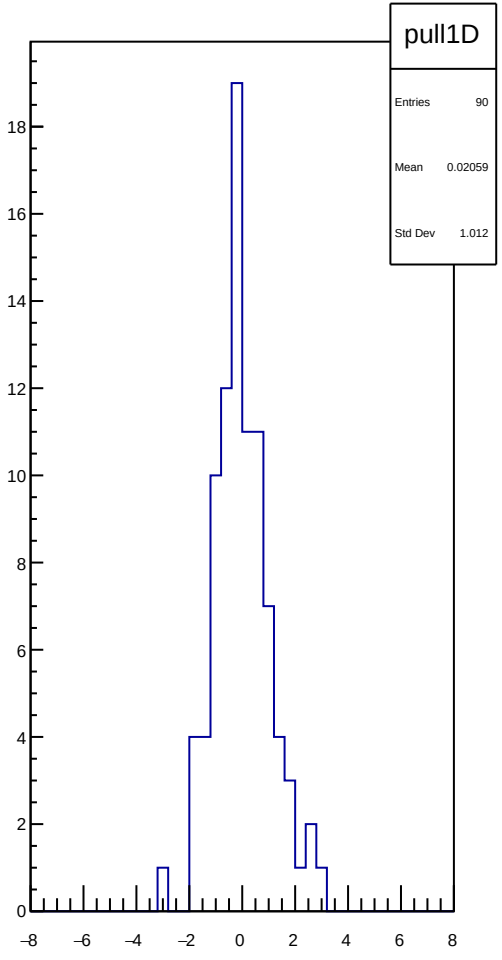

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.435e+04 / 89
p0 36.09 ± 0.02732
50
45
40
35
30
25

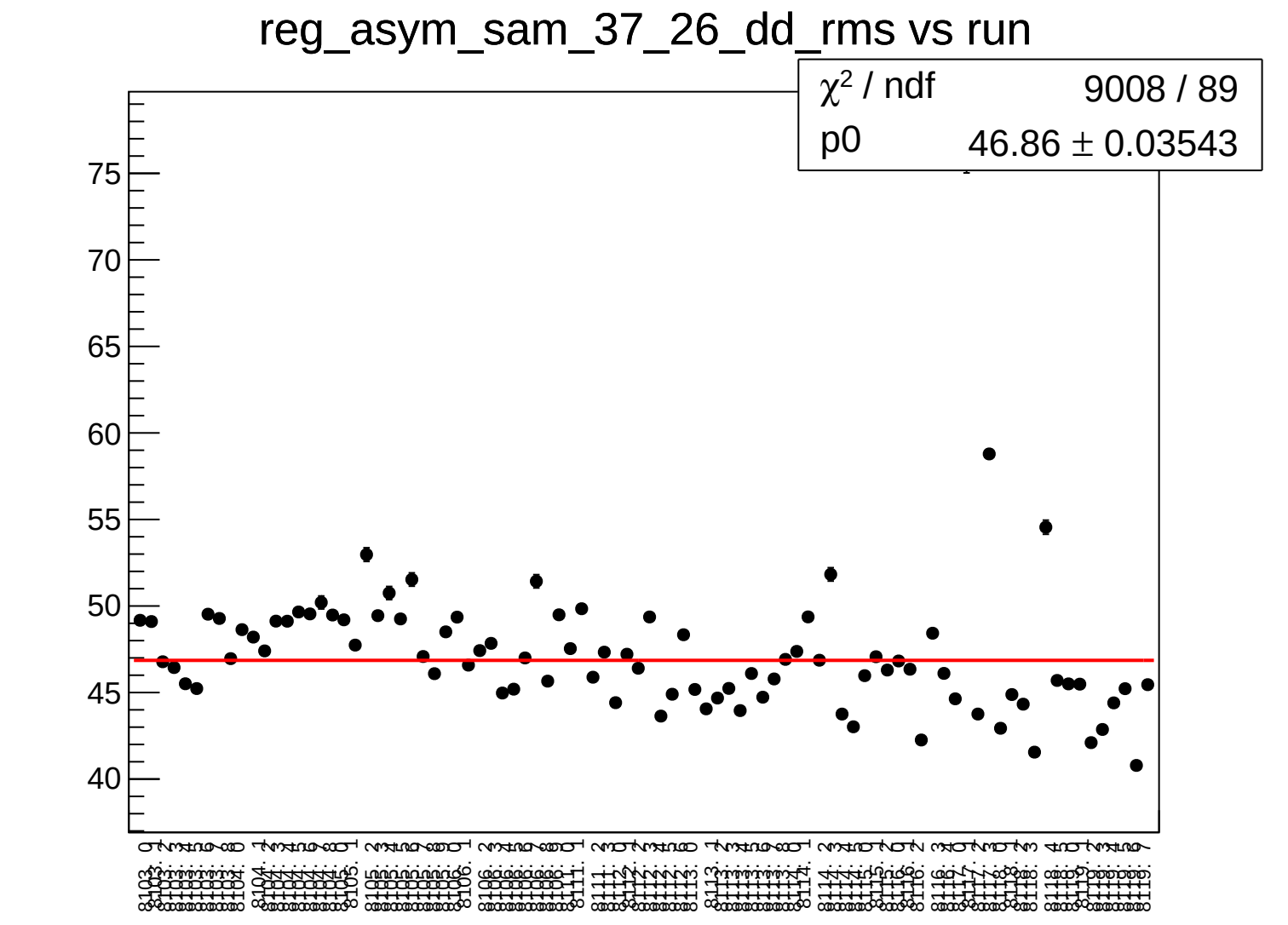

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.53 / 89
p0 −5.216e−14 ± 5.408e−14
pull
Entries 90
Mean 66.94
Std Dev 29.65

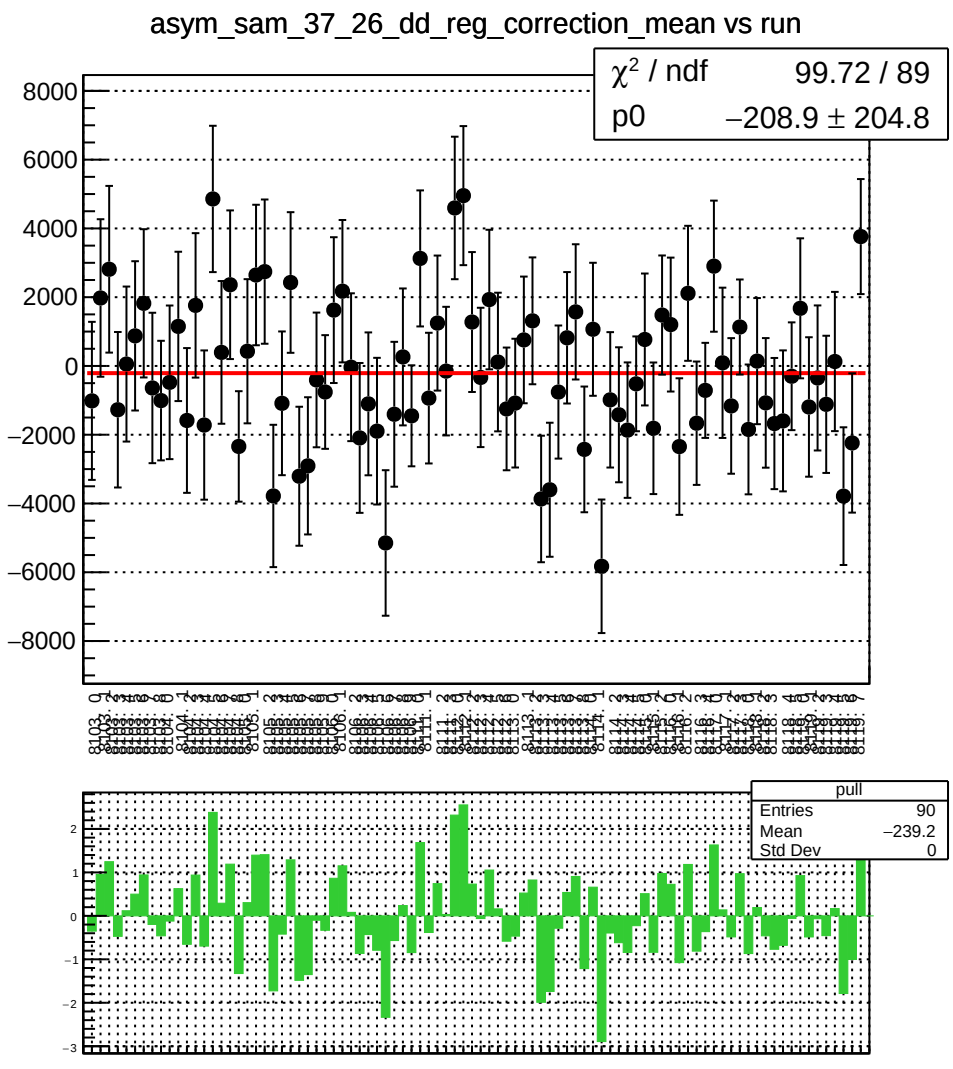

pull1D
Entries 90
Mean 0.05042
Std Dev 0.9678

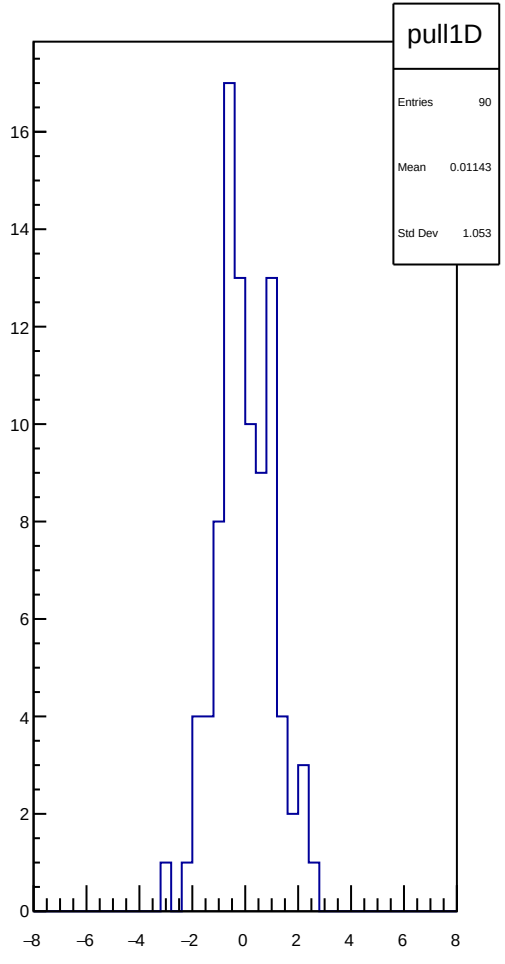

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.984e+05 / 89
p0 4.46e−11 ± 3.824e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

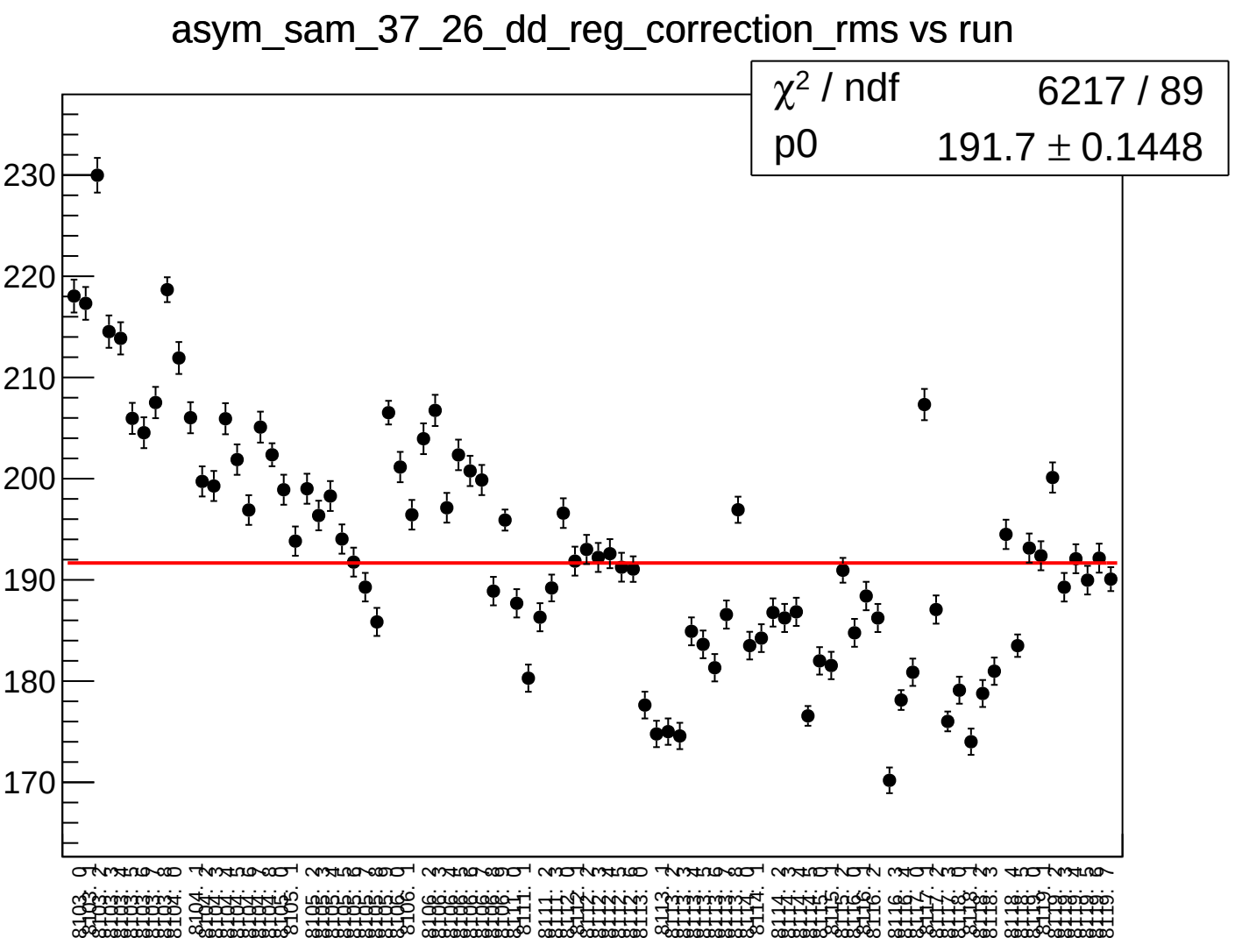

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.17 / 89
p0 5.43 ± 50.1
pull
Entries 90
Mean 14.78
Std Dev 0

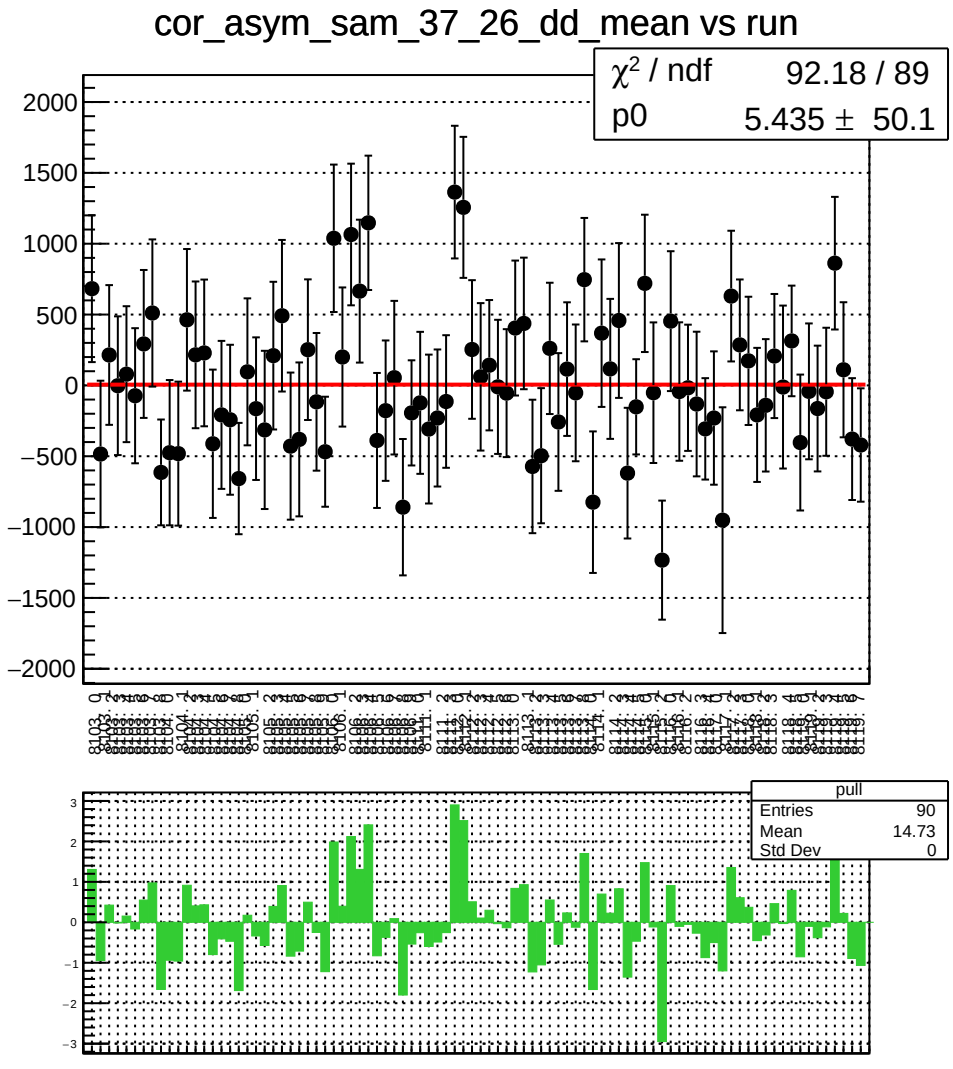

pull1D
Entries 90
Mean 0.02059
Std Dev 1.012

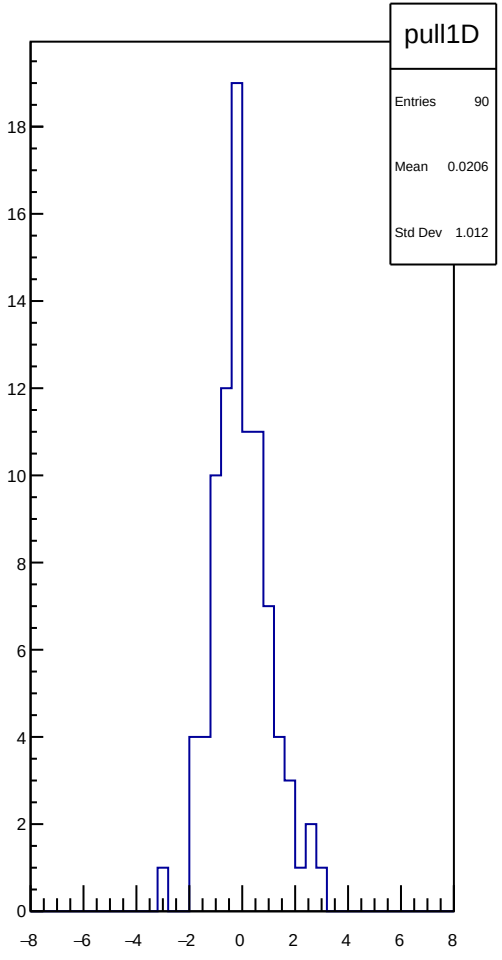

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 9008 / 89
p0 46.86 ± 0.03543
75
70
65
60
55
50
45
40

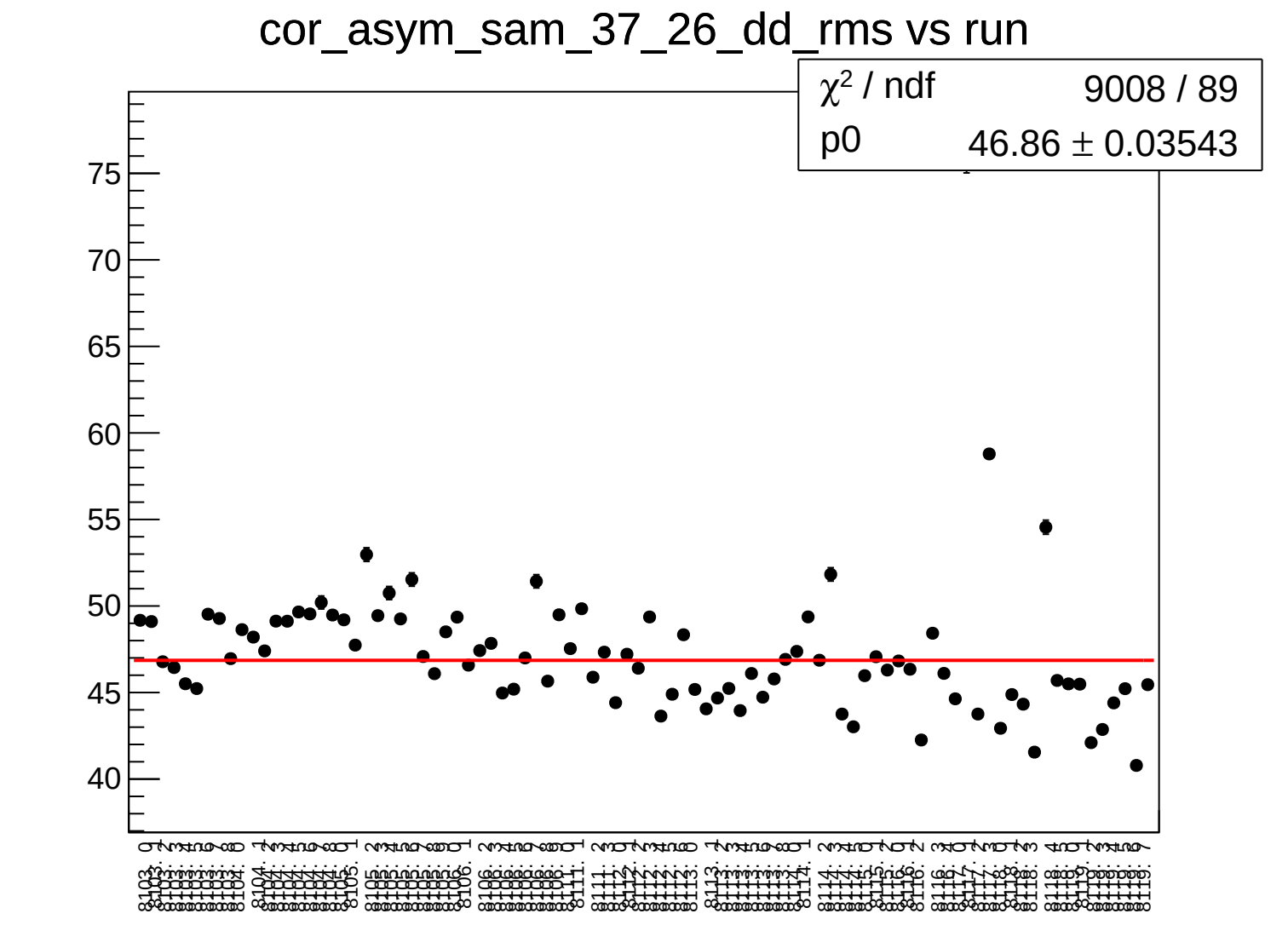

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 99.72 / 89
p0 −208.9 ± 204.8
pull
Entries 90
Mean −239.2
Std Dev 0

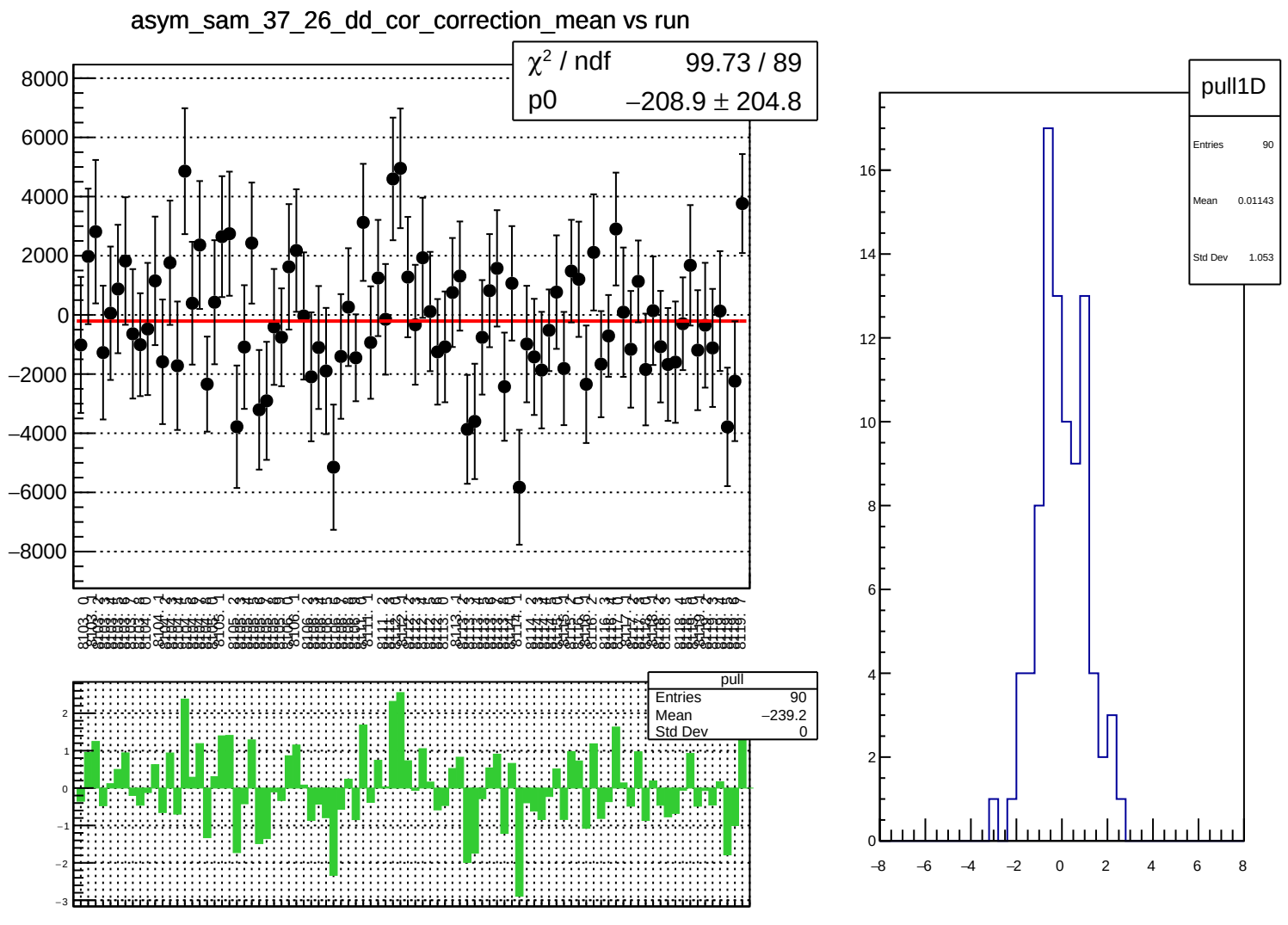

pull1D
Entries 90
Mean 0.01143
Std Dev 1.053

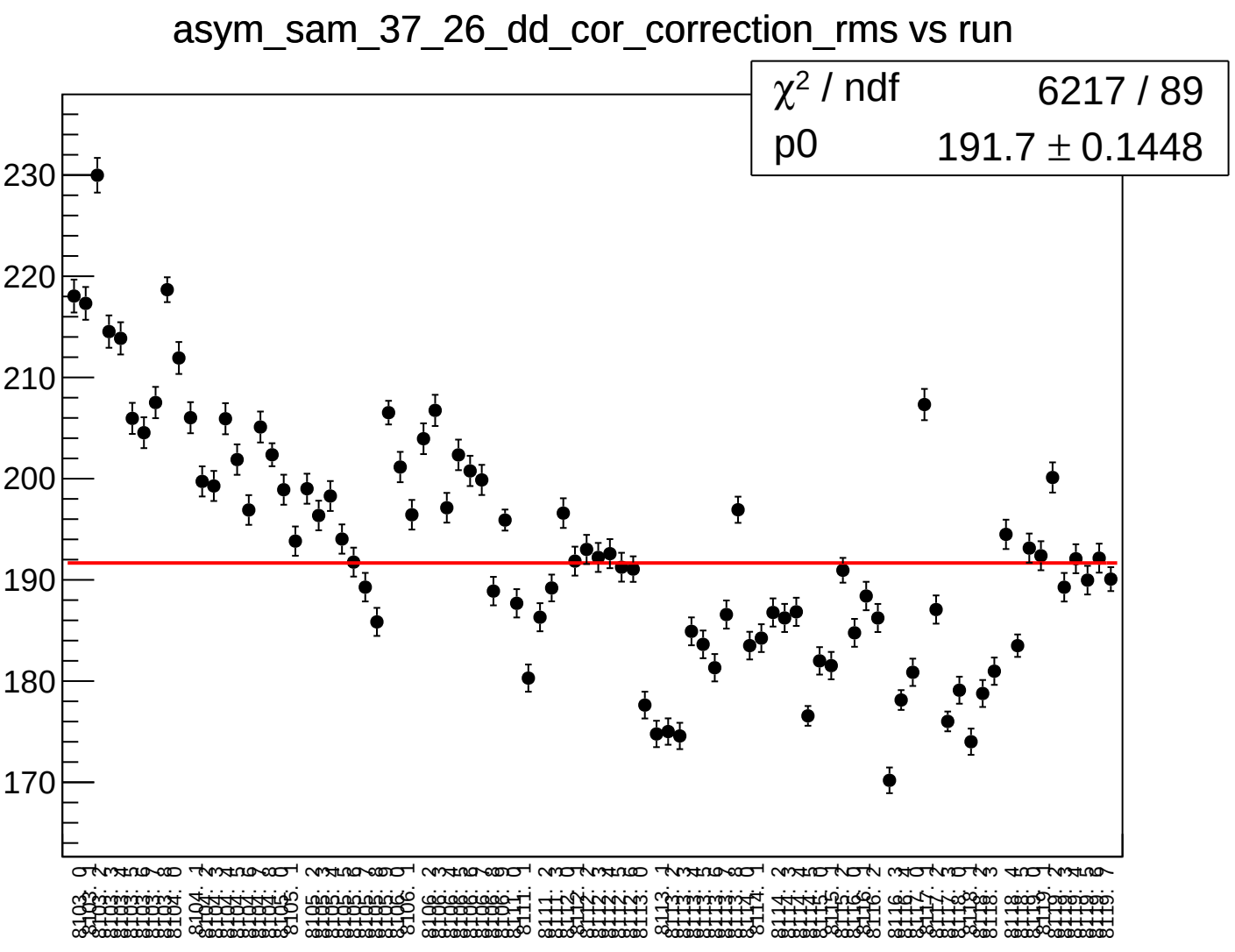

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 6217 / 89
p0 191.7 ± 0.1448
230
220
210
200
190
180
170

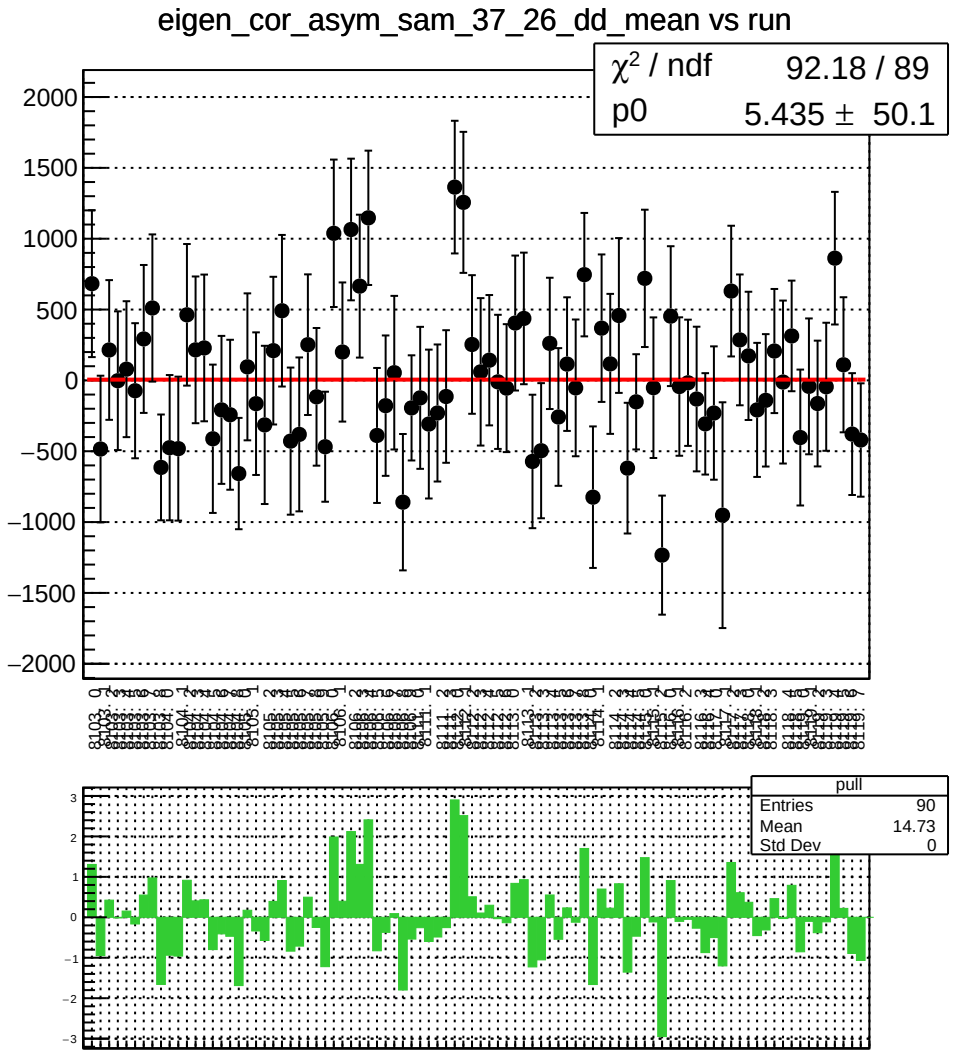

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.18 / 89
p0 5.435 ± 50.1
pull
Entries 90
Mean 14.73
Std Dev 0

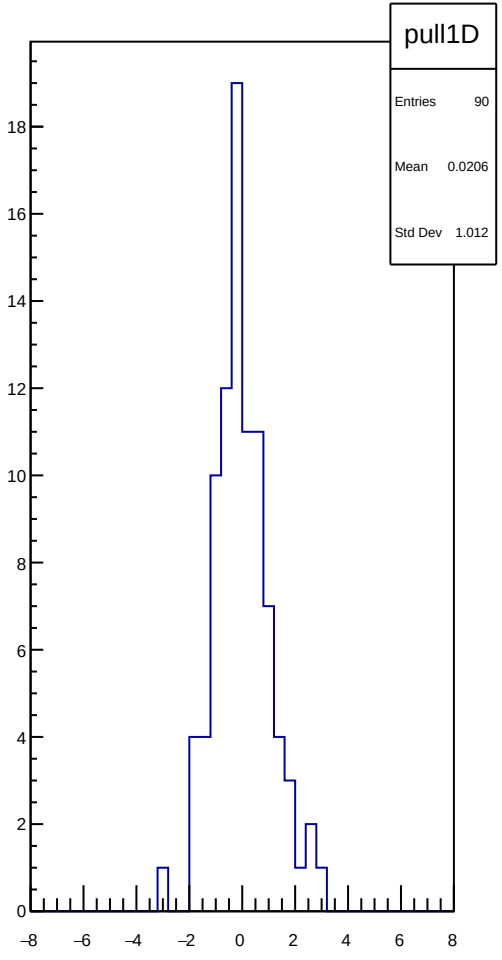

pull1D
Entries 90
Mean 0.0206
Std Dev 1.012

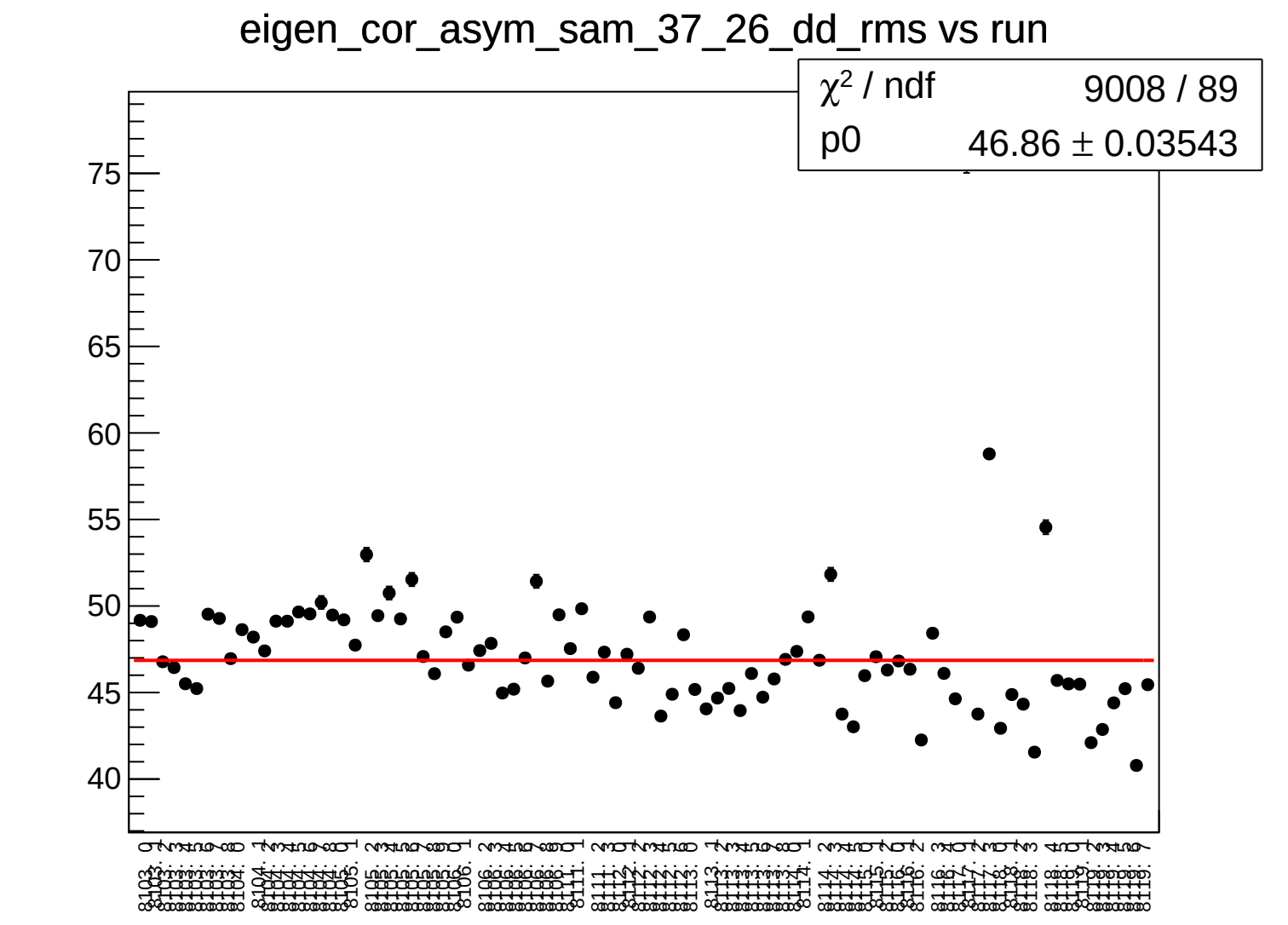

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 9008 / 89
p0 46.86 ± 0.03543
75
70
65
60
55
50
45
40

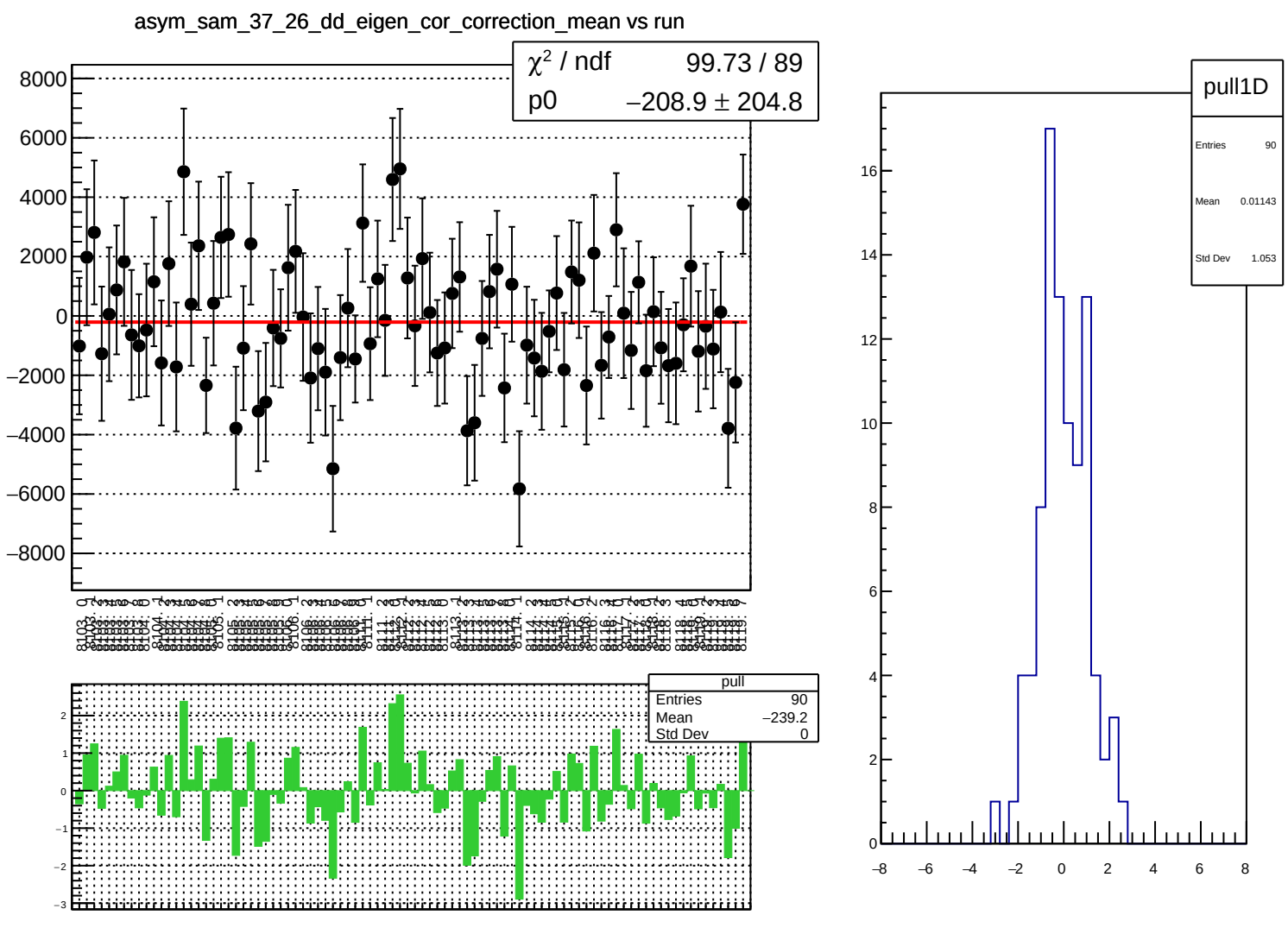

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 99.73 / 89
p0 −208.9 ± 204.8
pull
Entries 90
Mean −239.2
Std Dev 0
pull1D
Entries 90
Mean 0.01143
Std Dev 1.053

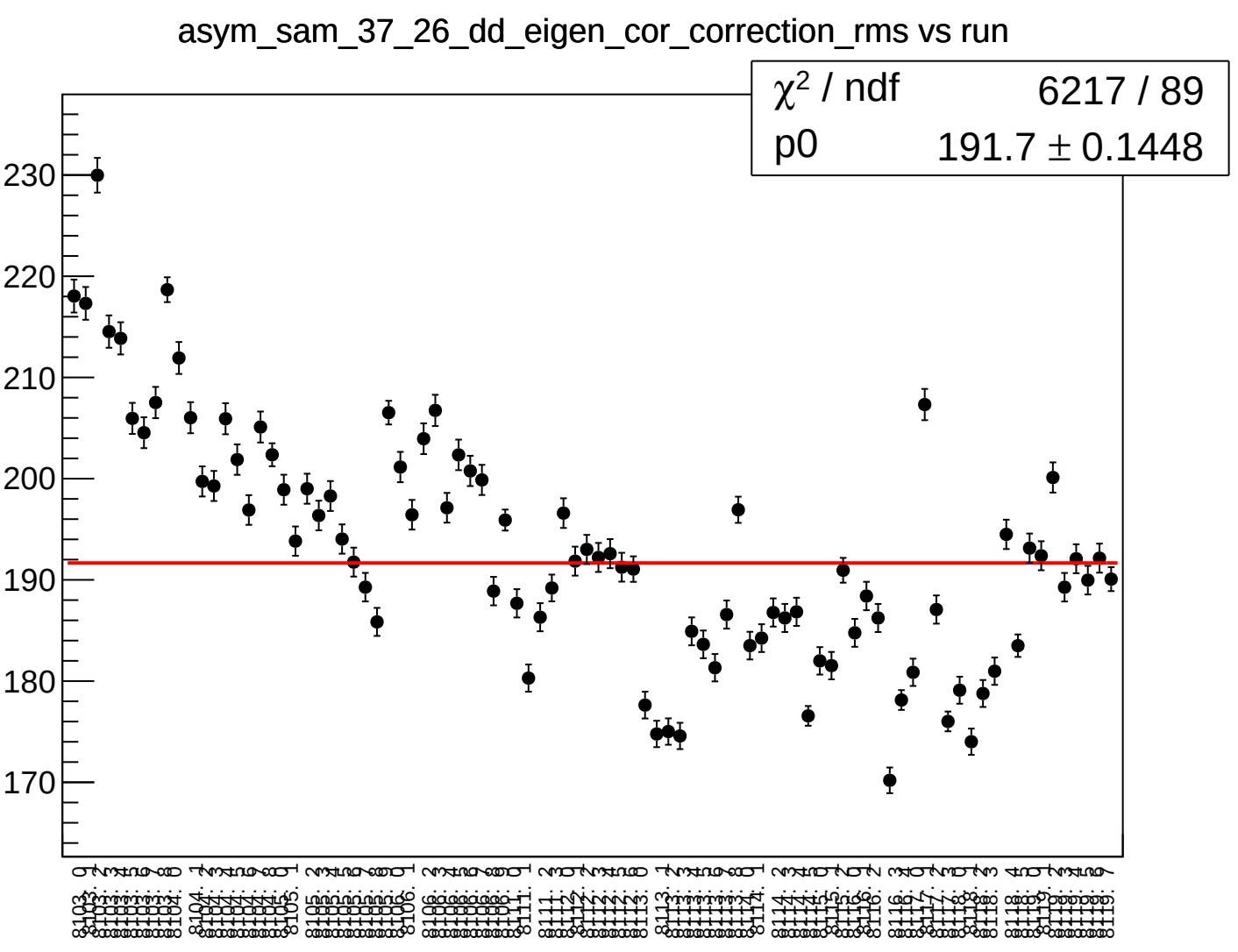

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 6217 / 89
p0 191.7 ± 0.1448
230
220
210
200
190
180
170

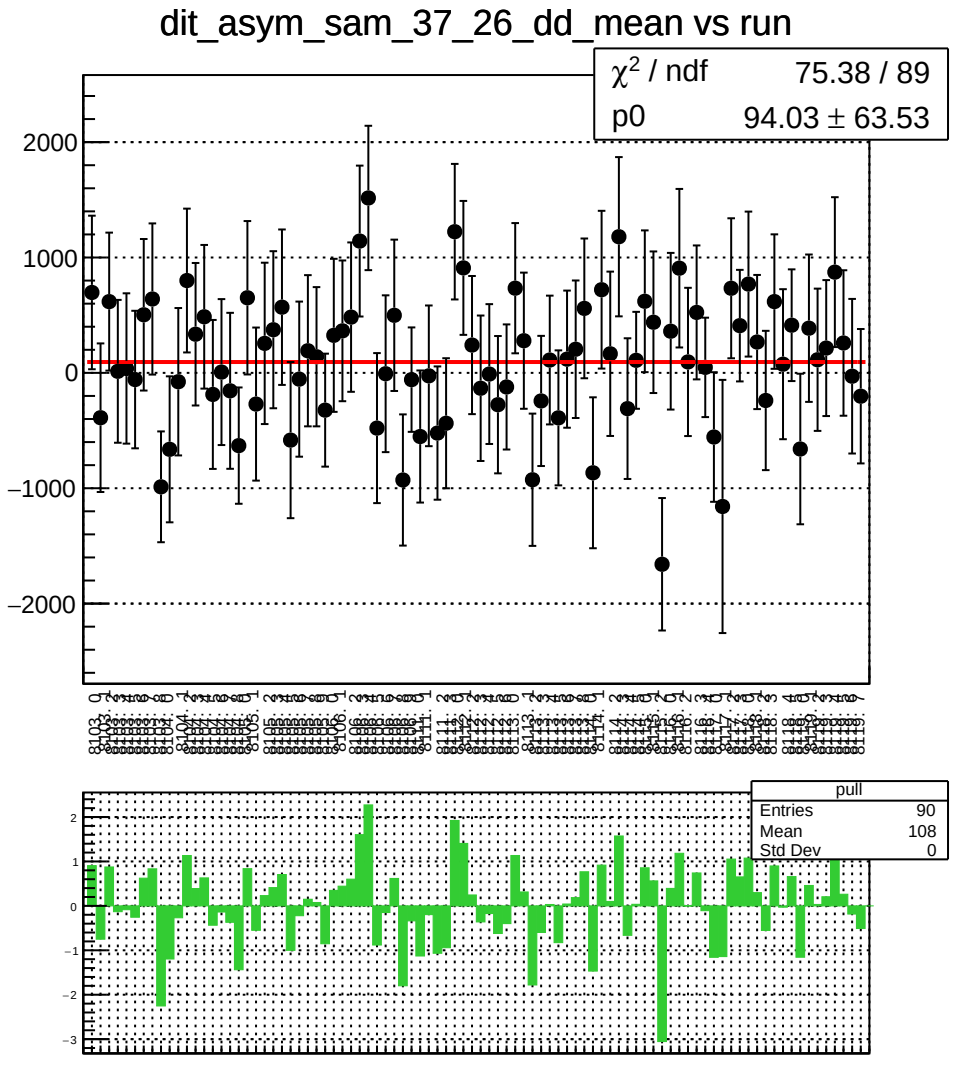

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.18 / 89
p0 5.435 ± 50.1
pull
Entries 90
Mean 14.73
Std Dev 0

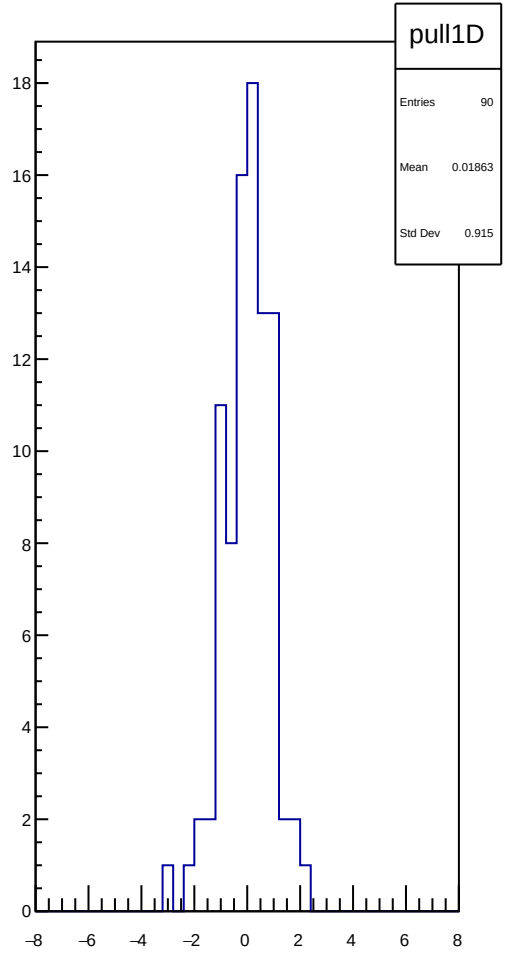

pull1D
Entries 90
Mean 0.0206
Std Dev 1.012

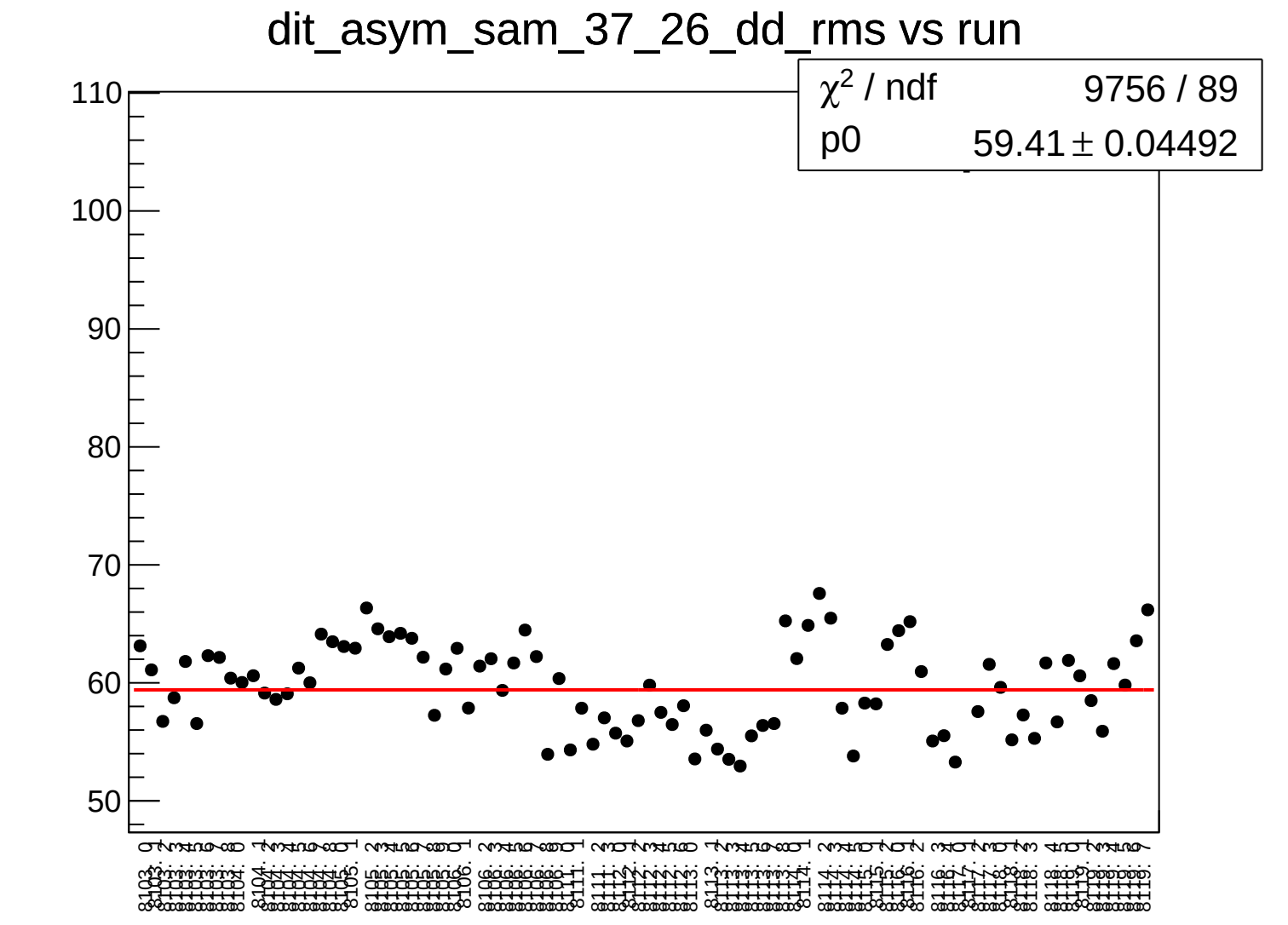

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 9008 / 89
p0 46.86 ± 0.03543
75
70
65
60
55
50
45
40

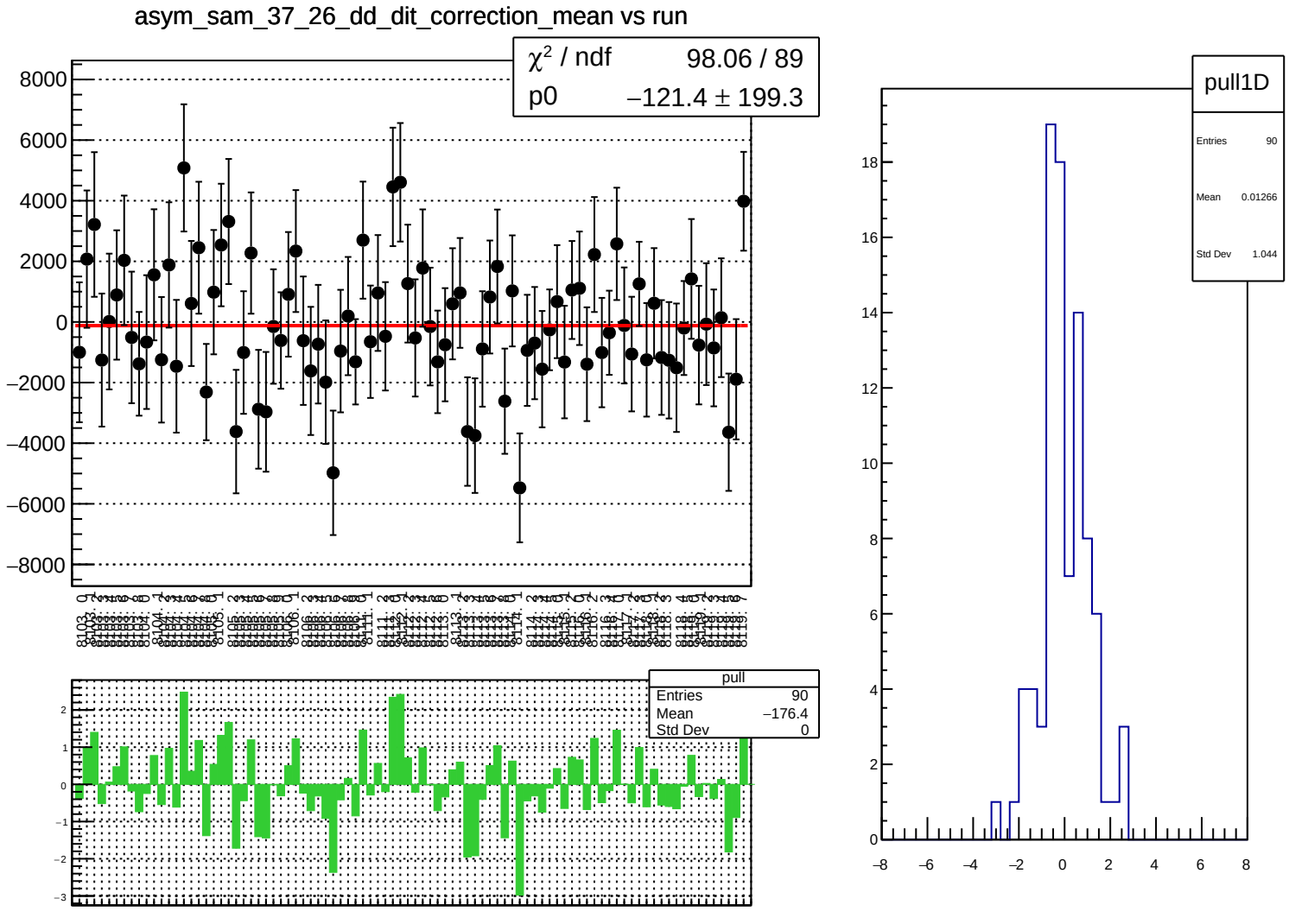

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.73 / 89
p0 −208.9 ± 204.8
pull
Entries 90
Mean −239.2
Std Dev 0
pull1D
Entries 90
Mean 0.01143
Std Dev 1.053

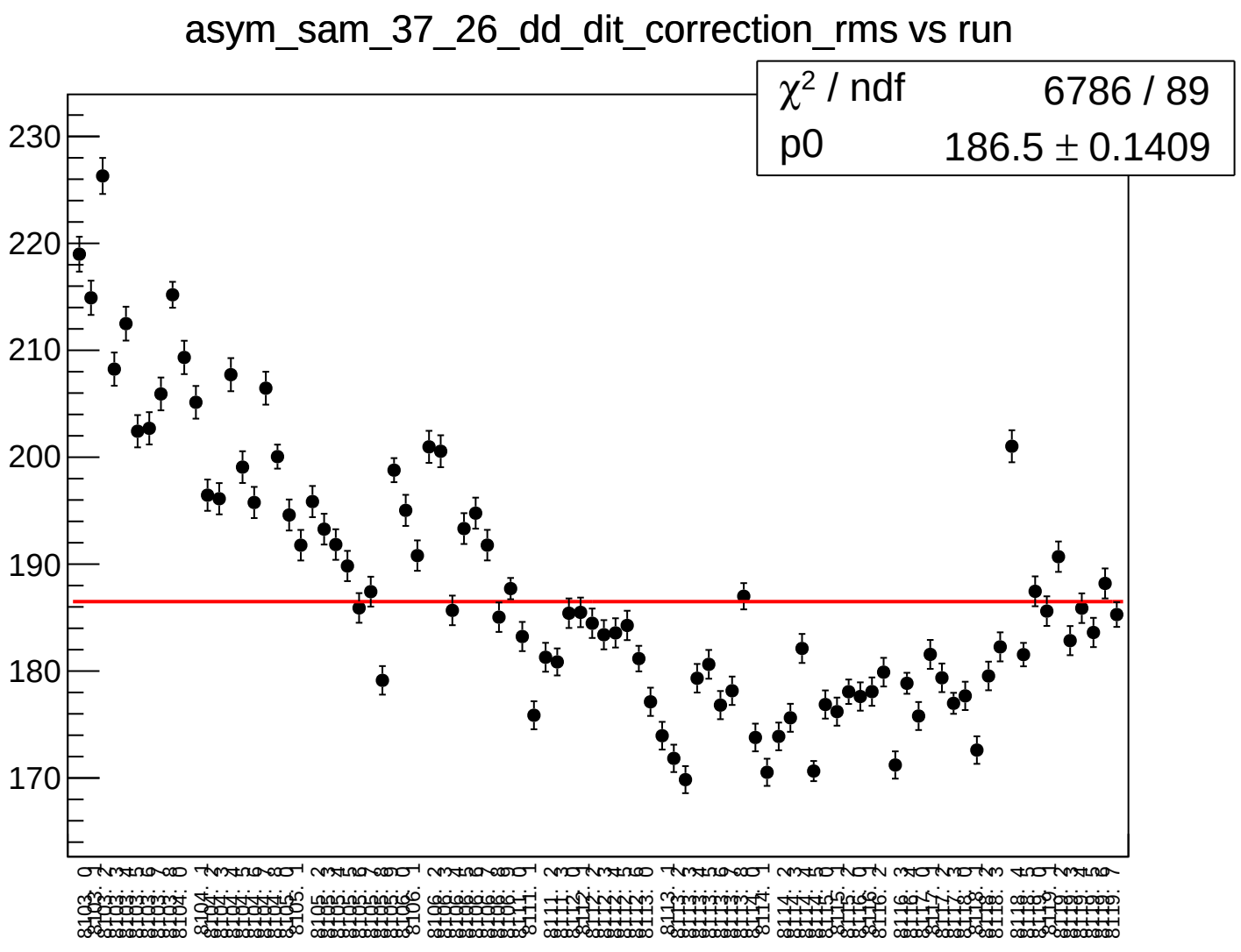

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6217 / 89
p0 191.7 ± 0.1448
230
220
210
200
190
180
170

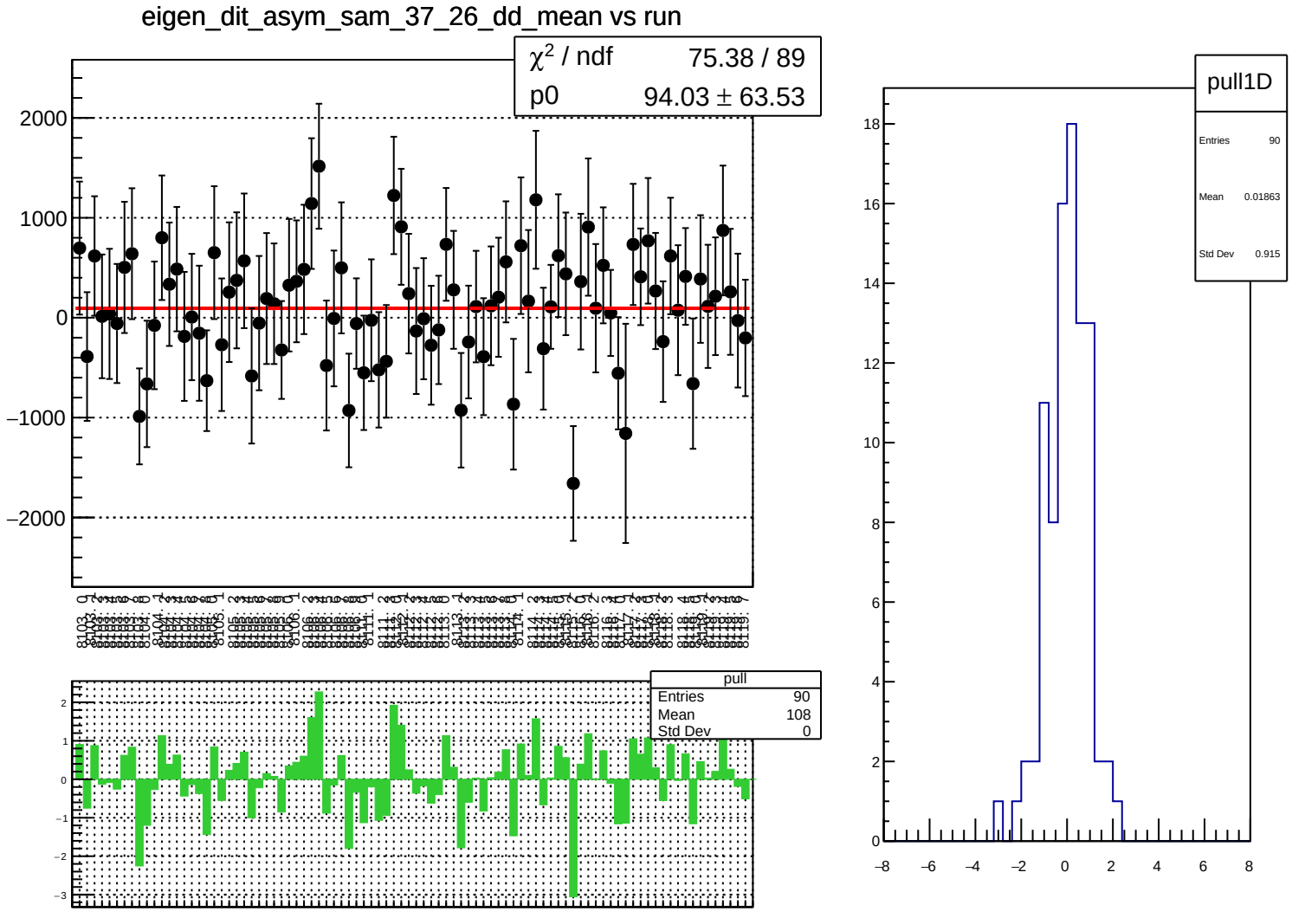

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 75.38 / 89
p0 94.03 ± 63.53
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 108
Std Dev 0
2
1
0
−1
−2
−3

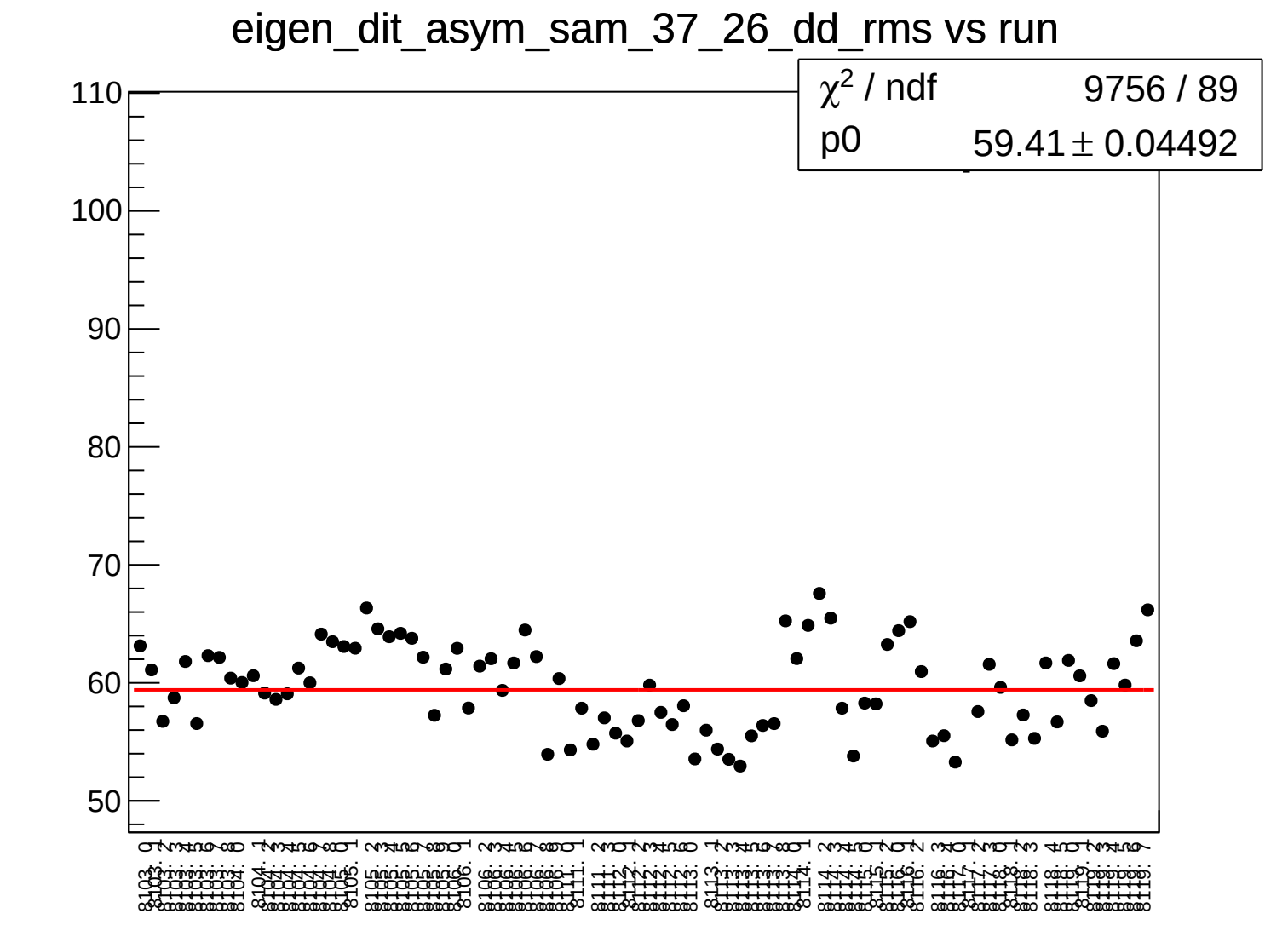

pull1D
Entries 90
Mean 0.01863
Std Dev 0.915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

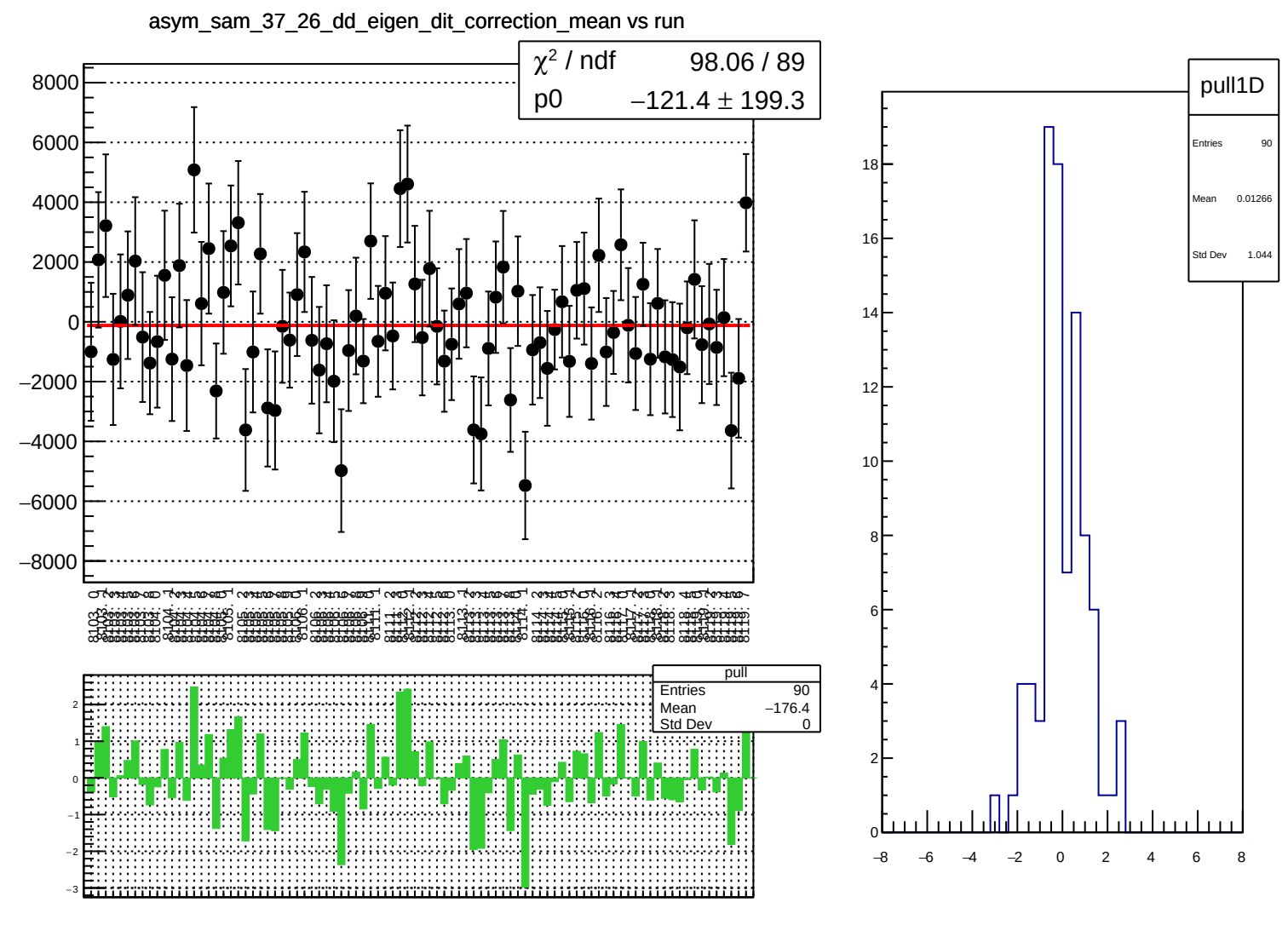

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 9756 / 89
p0 59.41 ± 0.04492
110
100
90
80
70
60
50

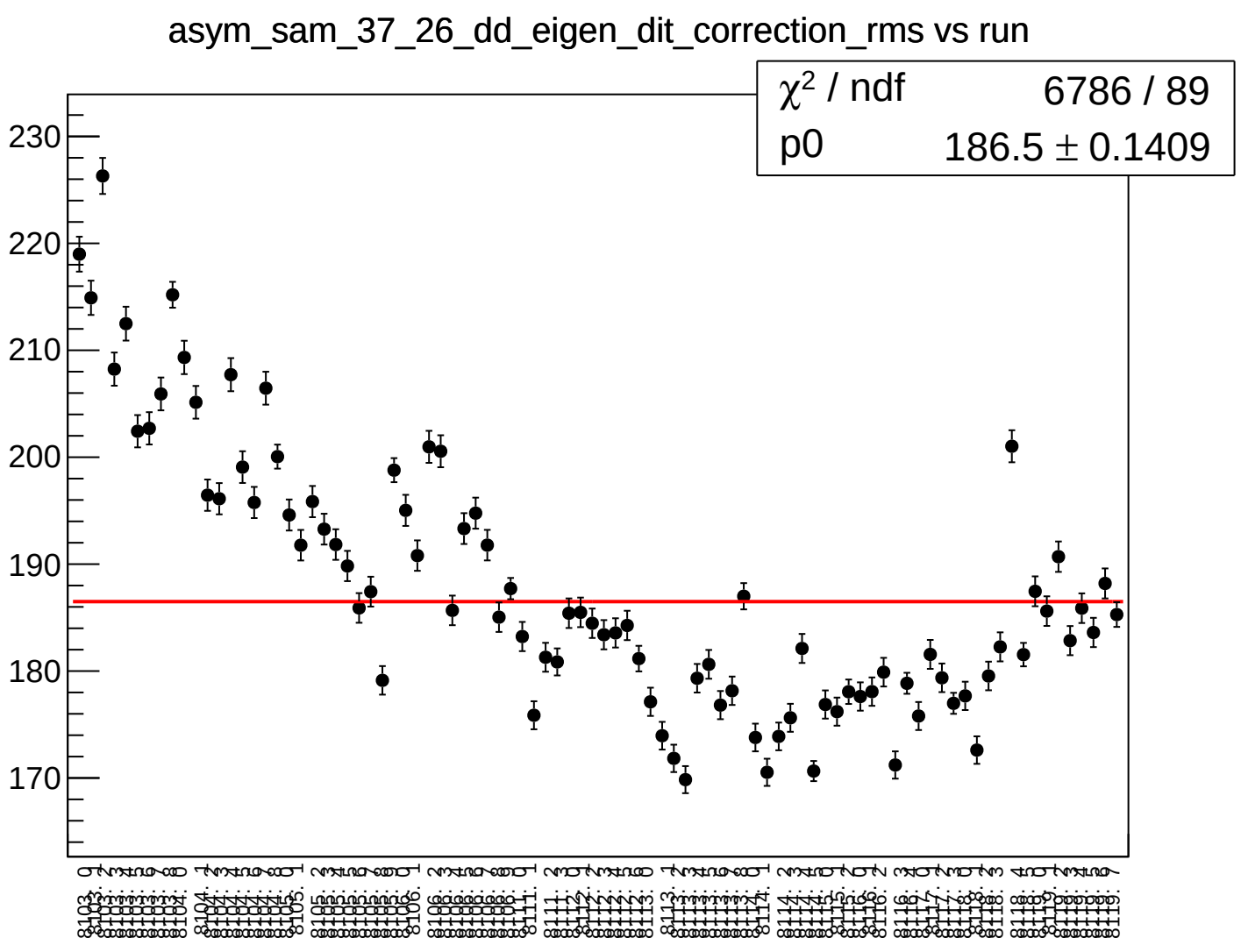

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 98.06 / 89
p0 −121.4 ± 199.3
pull
Entries 90
Mean −176.4
Std Dev 0
pull1D
Entries 90
Mean 0.01266
Std Dev 1.044

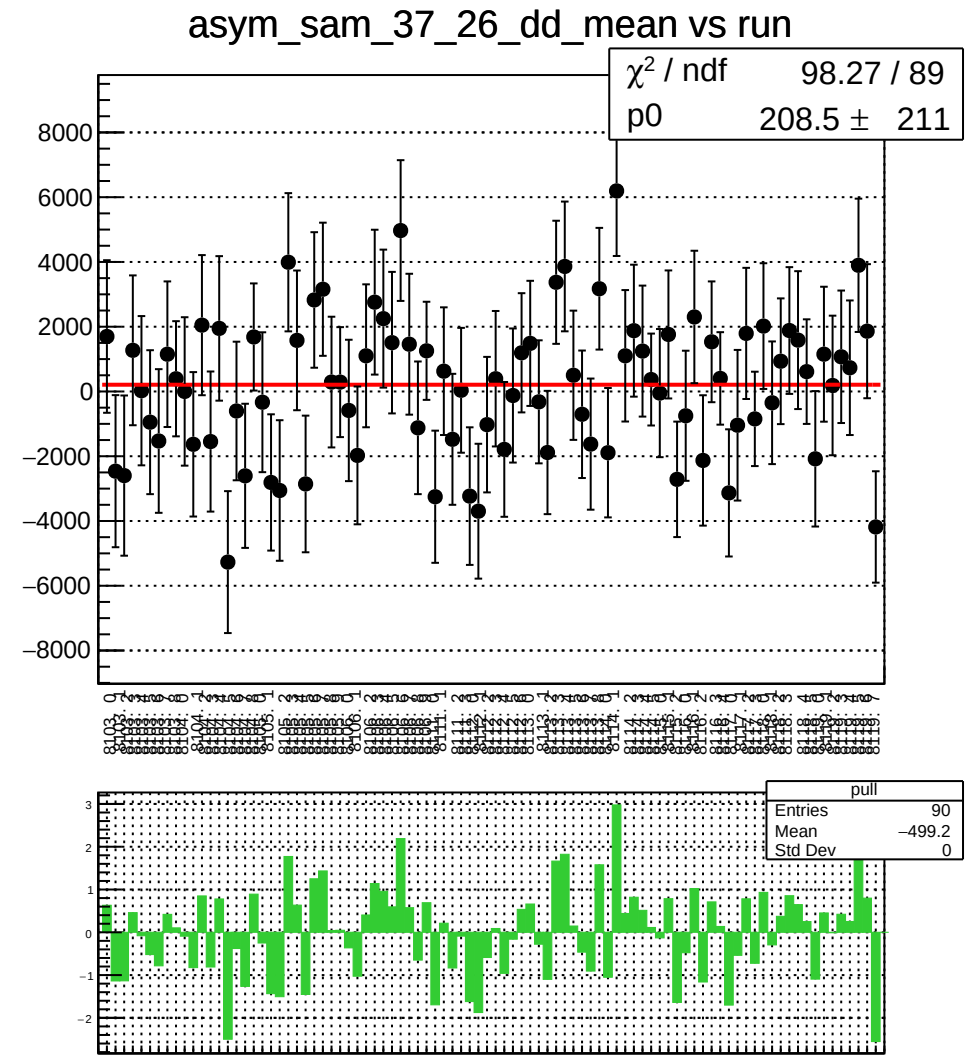

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 6786 / 89
p0 186.5 ± 0.1409
230
220
210
200
190
180
170

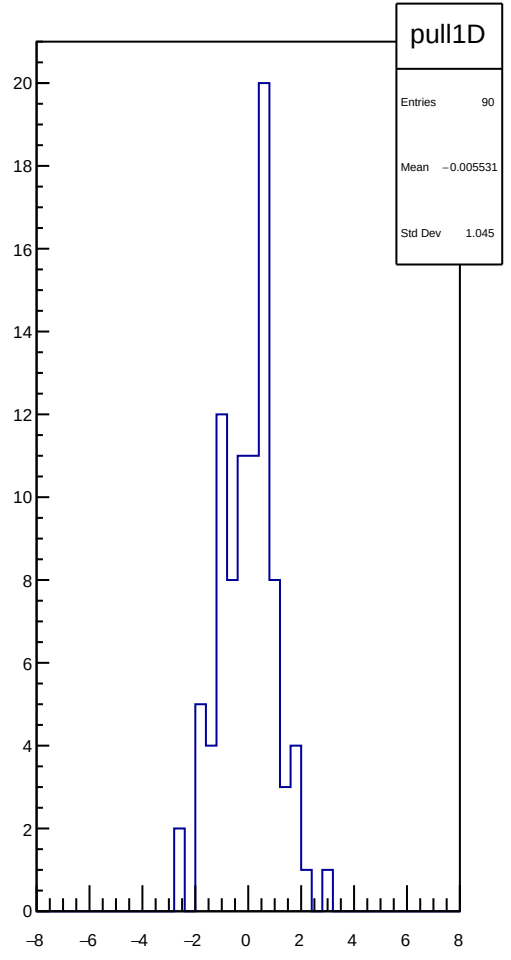

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 75.38 / 89
p0 94.03 ± 63.53
2000
1000
0
−1000
−2000
pull
Entries 90
Mean 108
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01863
Std Dev 0.915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

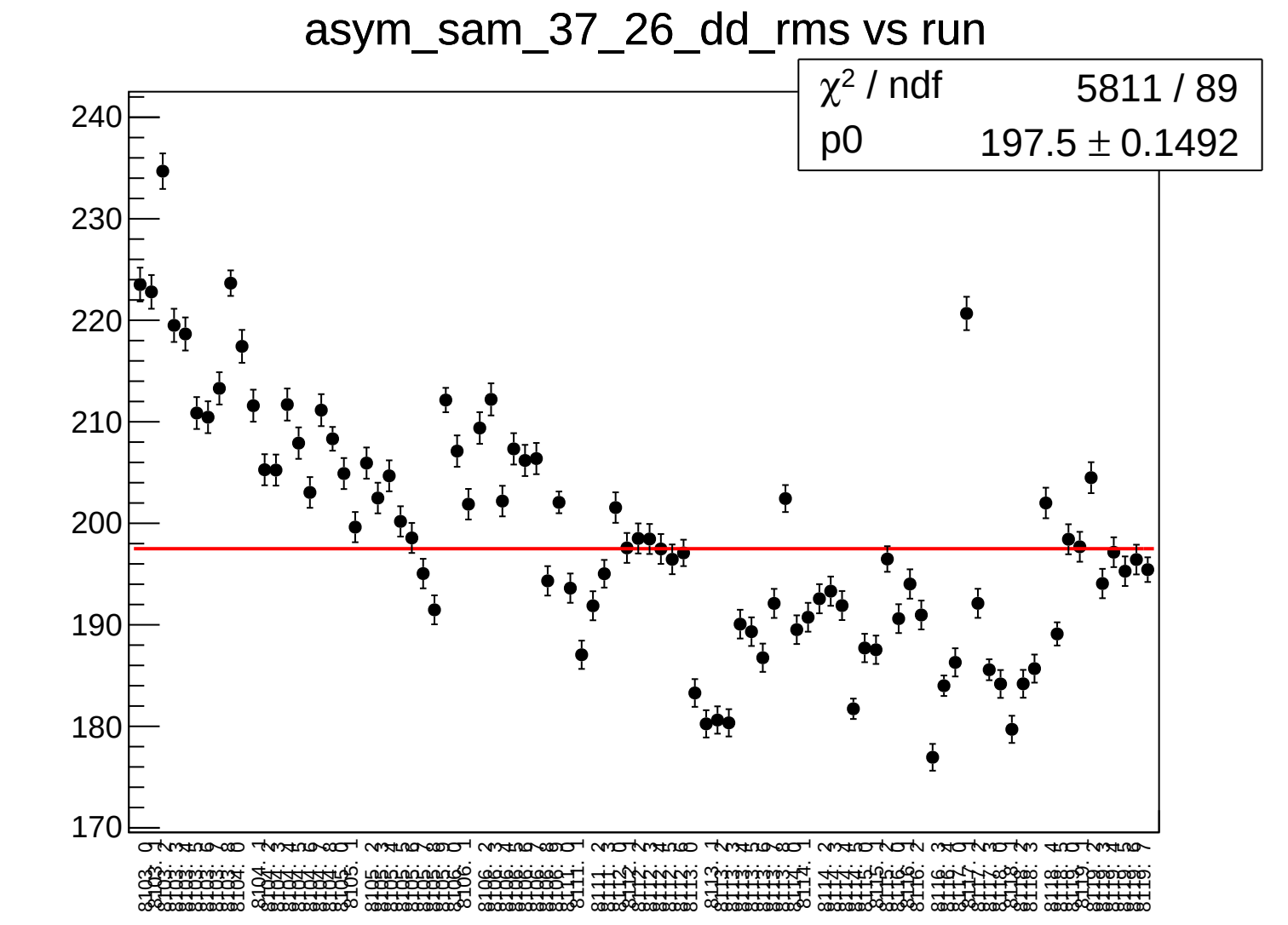

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 9756 / 89
p0 59.41 ± 0.04492
110
100
90
80
70
60
50

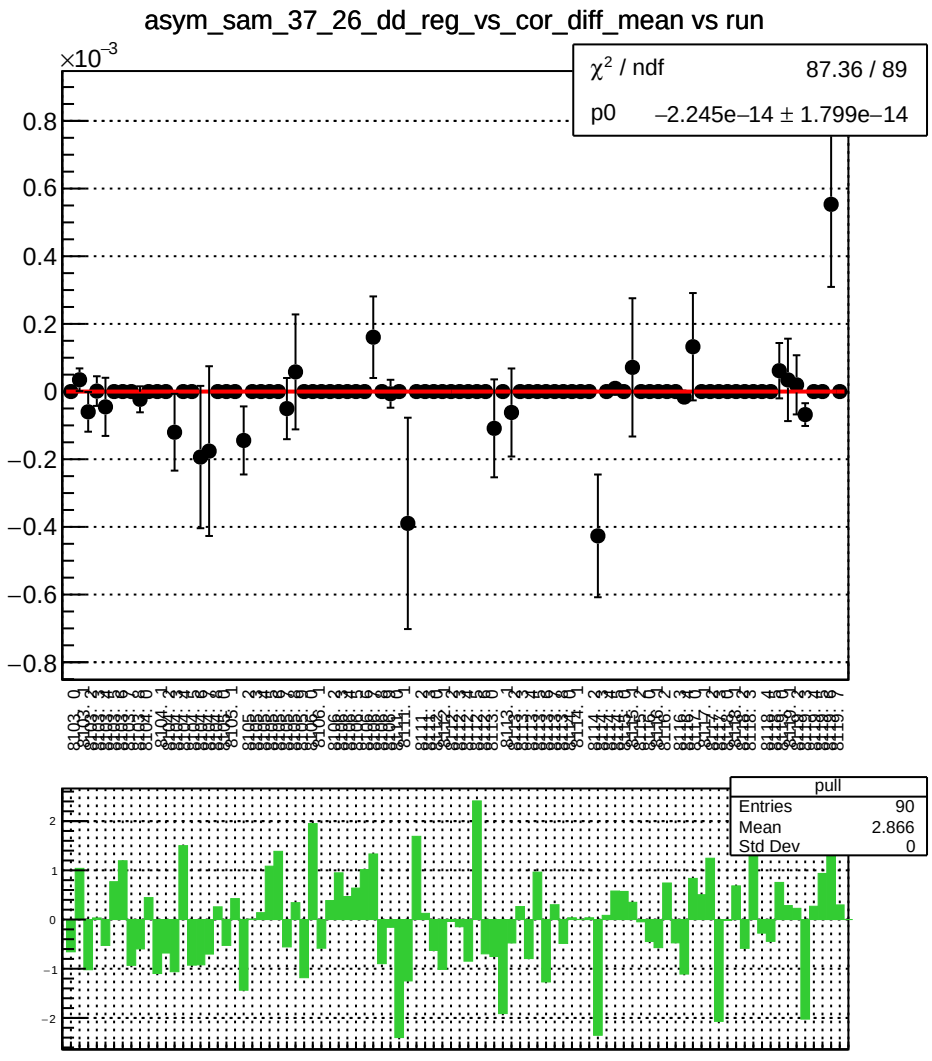

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.06 / 89
p0 −121.4 ± 199.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 90
Mean −176.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.01266
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

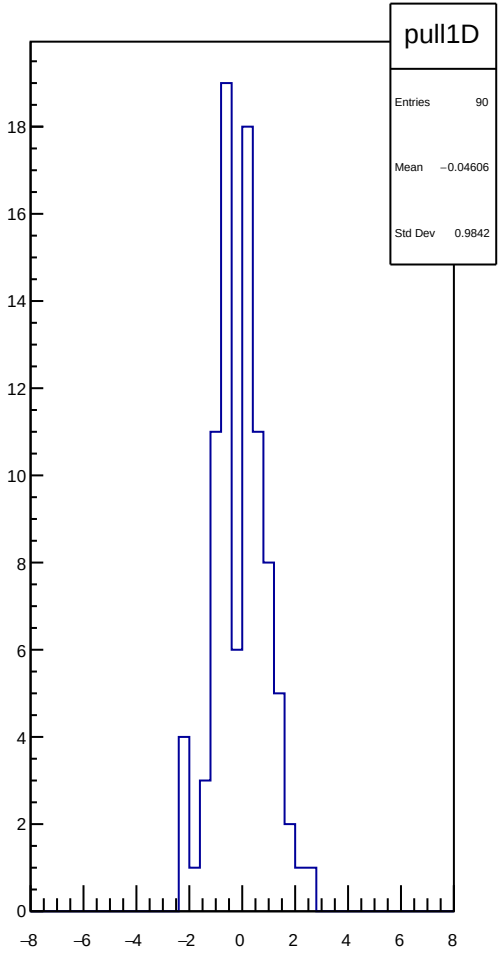

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6786 / 89
p0 186.5 ± 0.1409
230
220
210
200
190
180
170

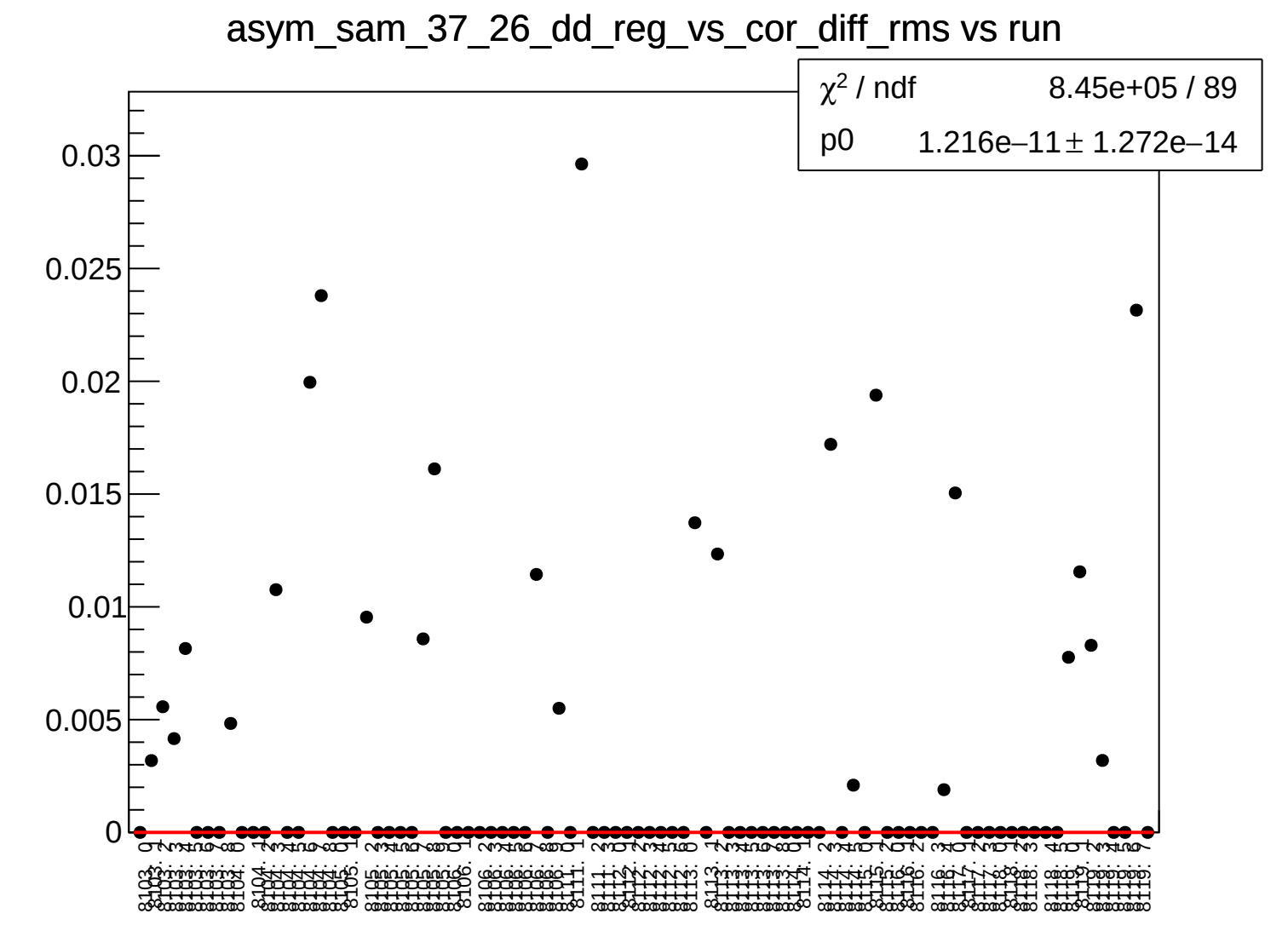

asym_sam_37_26_dd_mean vs run
χ² / ndf 98.27 / 89
p0 208.5 ± 211
pull
Entries 90
Mean −499.2
Std Dev 0

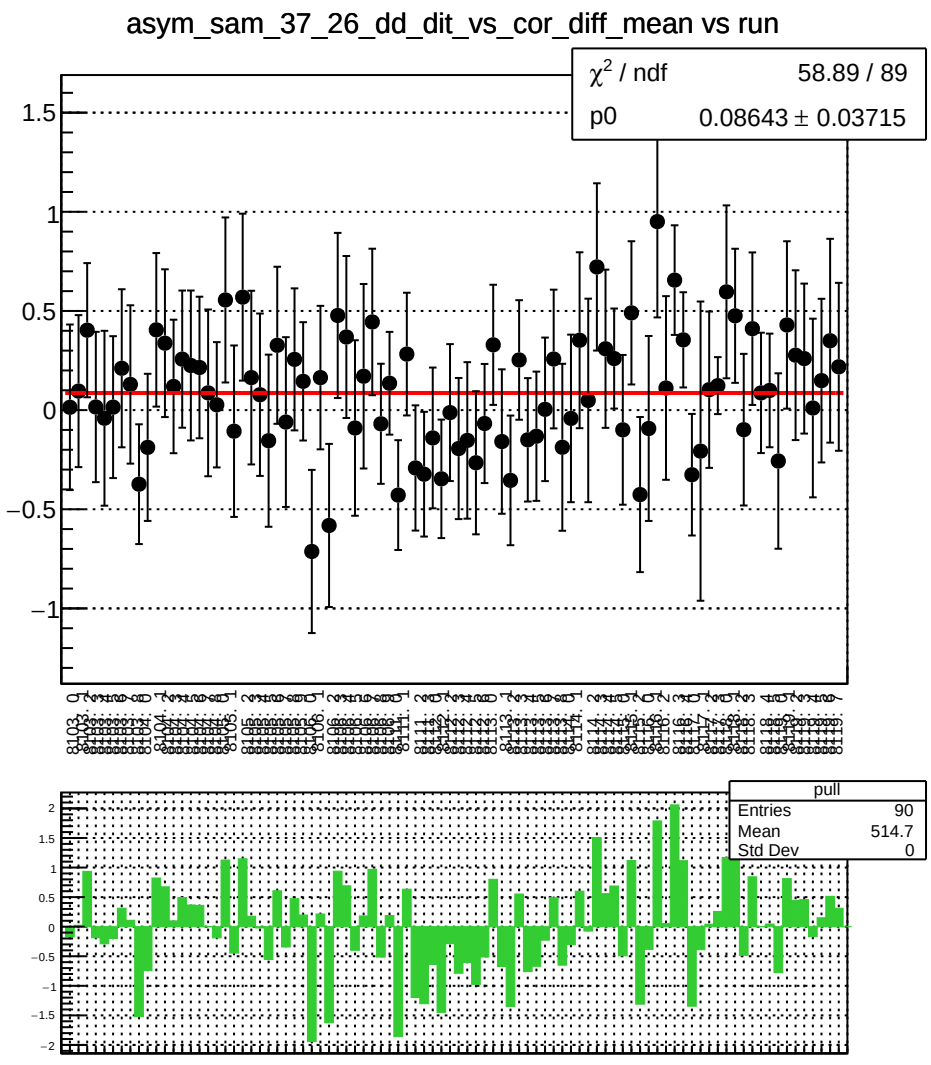

pull1D
Entries 90
Mean −0.005531
Std Dev 1.045

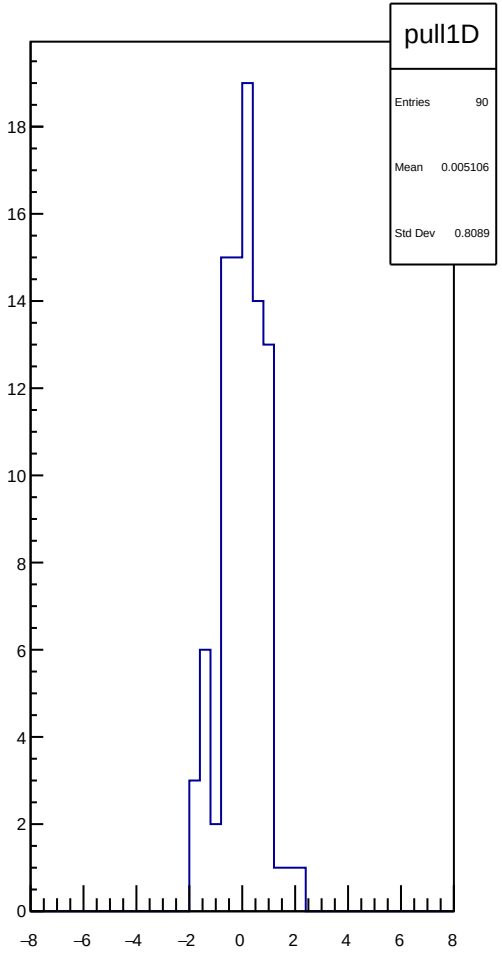

asym_sam_37_26_dd_rms vs run
χ² / ndf 5811 / 89
p0 197.5 ± 0.1492
240
230
220
210
200
190
180
170

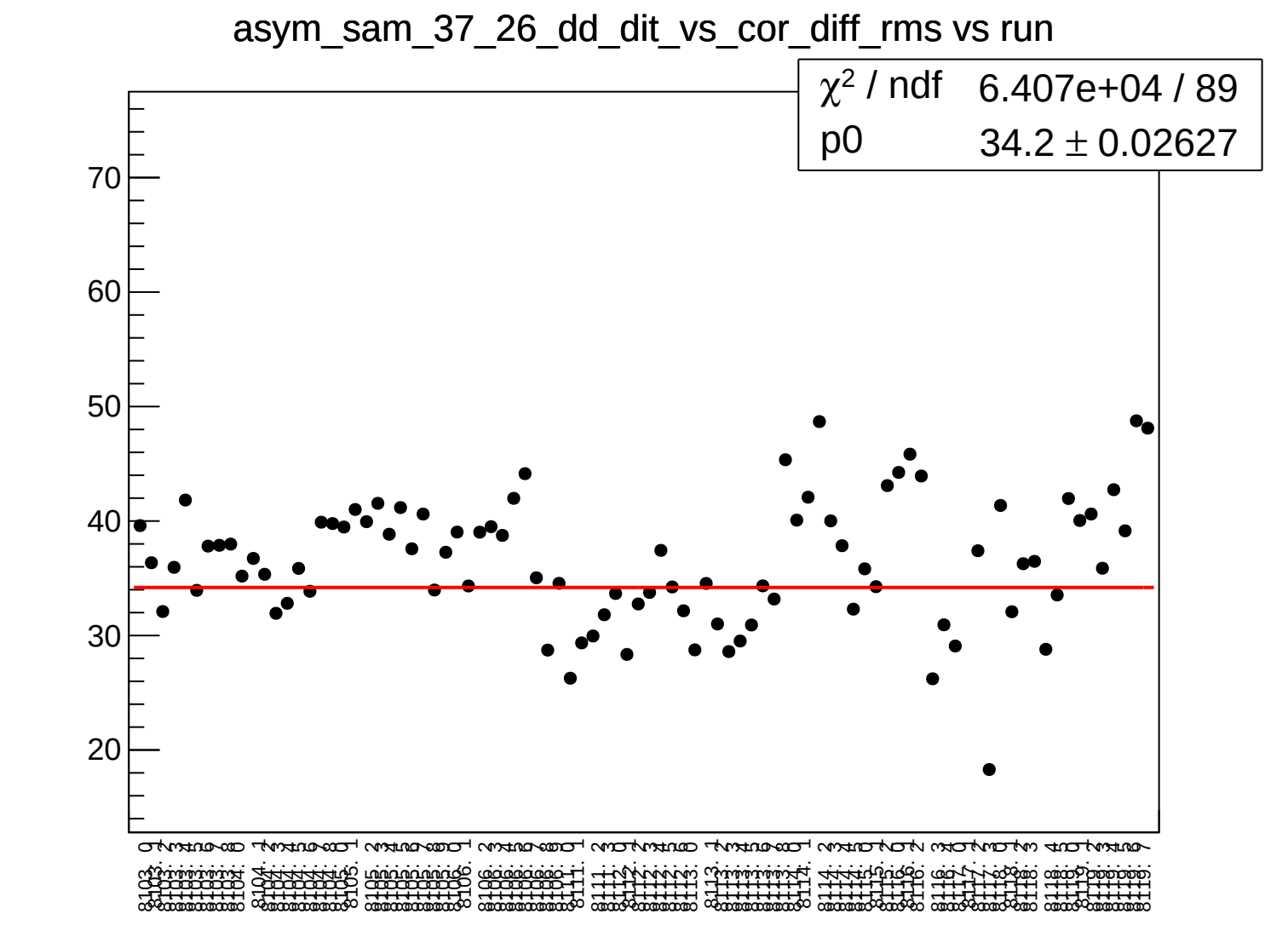

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 87.36 / 89
p0 −2.245e−14 ± 1.799e−14
pull
Entries 90
Mean 2.866
Std Dev 0

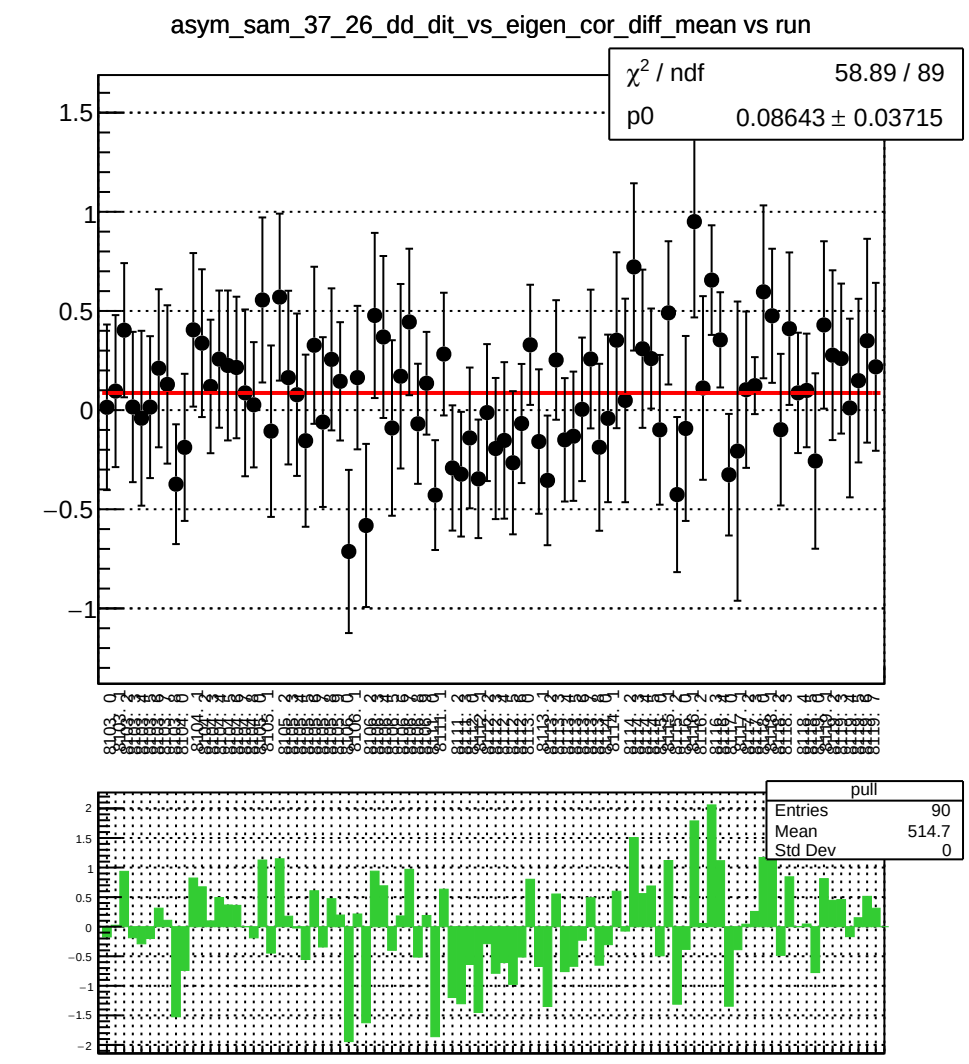

pull1D
Entries 90
Mean −0.04606
Std Dev 0.9842

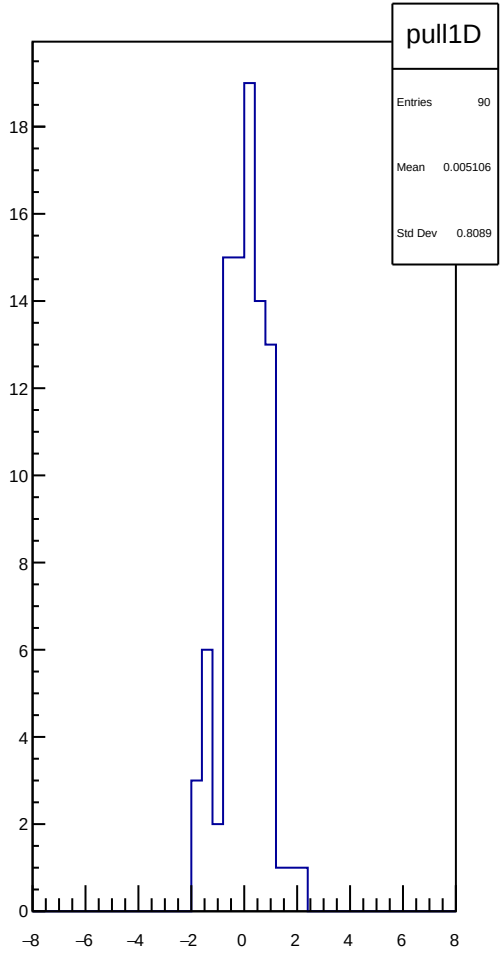

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.45e+05 / 89
p0 1.216e−11 ± 1.272e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

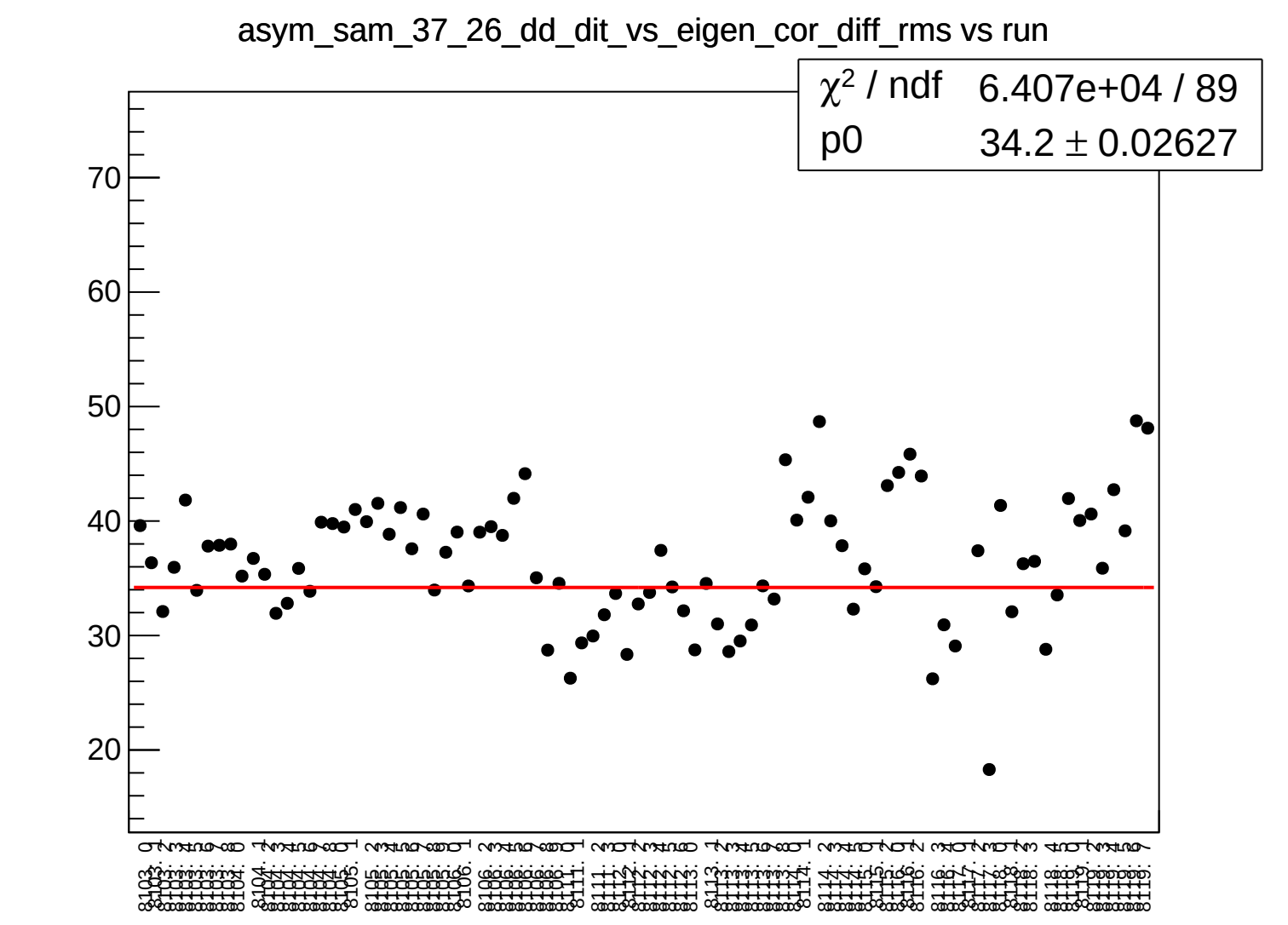

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 58.89 / 89
p0 0.08643 ± 0.03715
pull
Entries 90
Mean 514.7
Std Dev 0

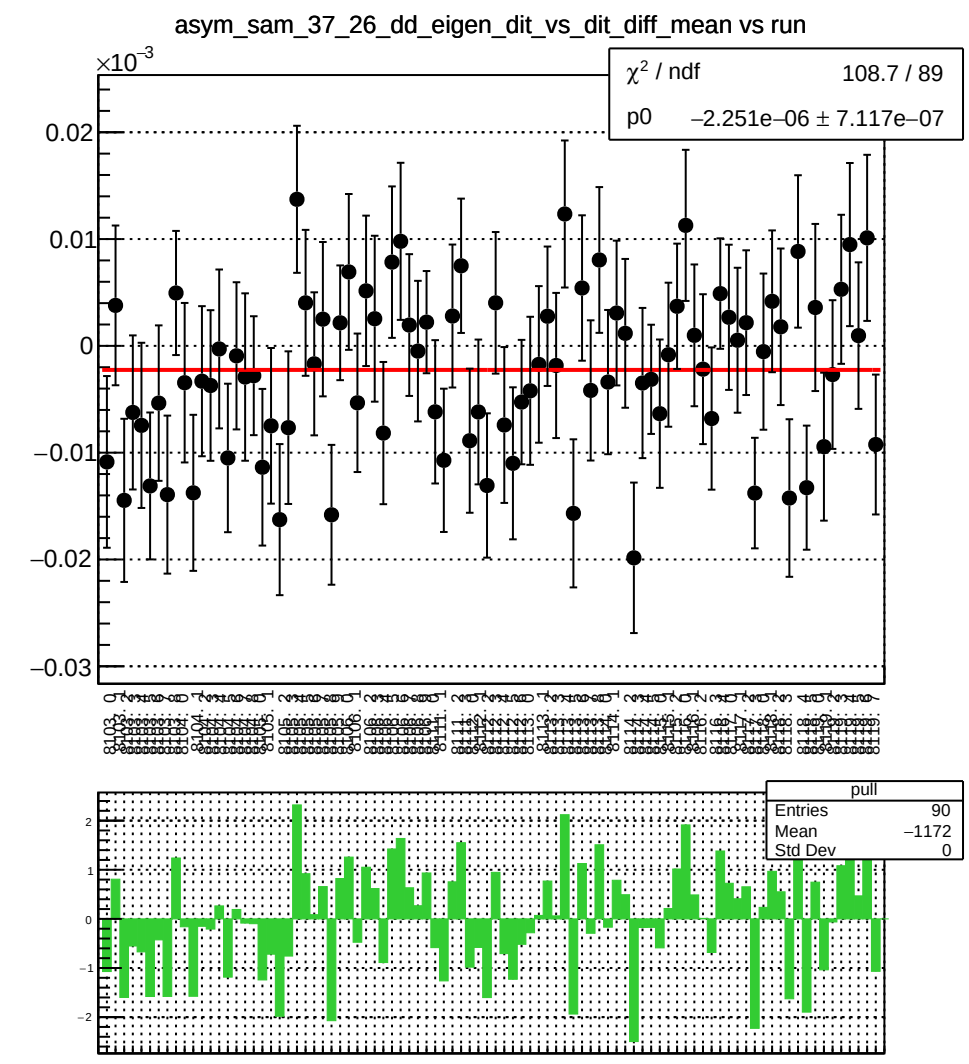

pull1D
Entries 90
Mean 0.005106
Std Dev 0.8089

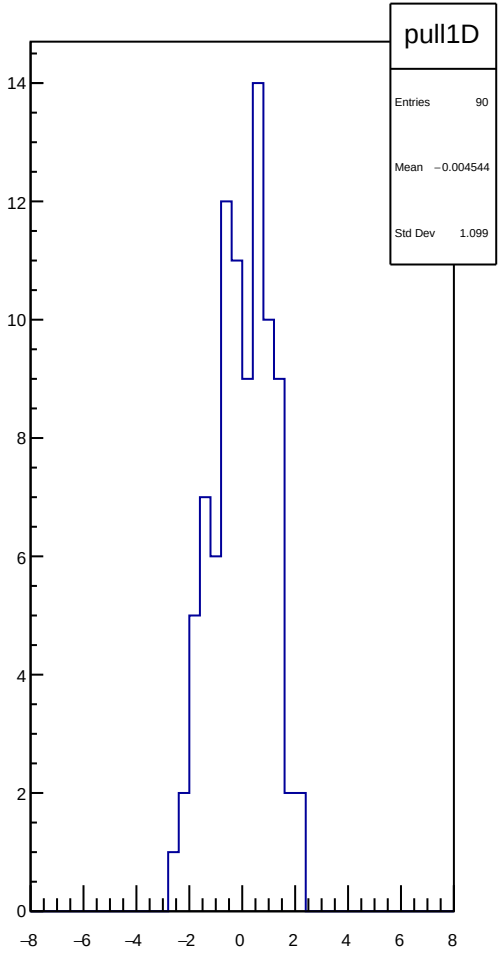

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.407e+04 / 89
p0 34.2 ± 0.02627
70
60
50
40
30
20

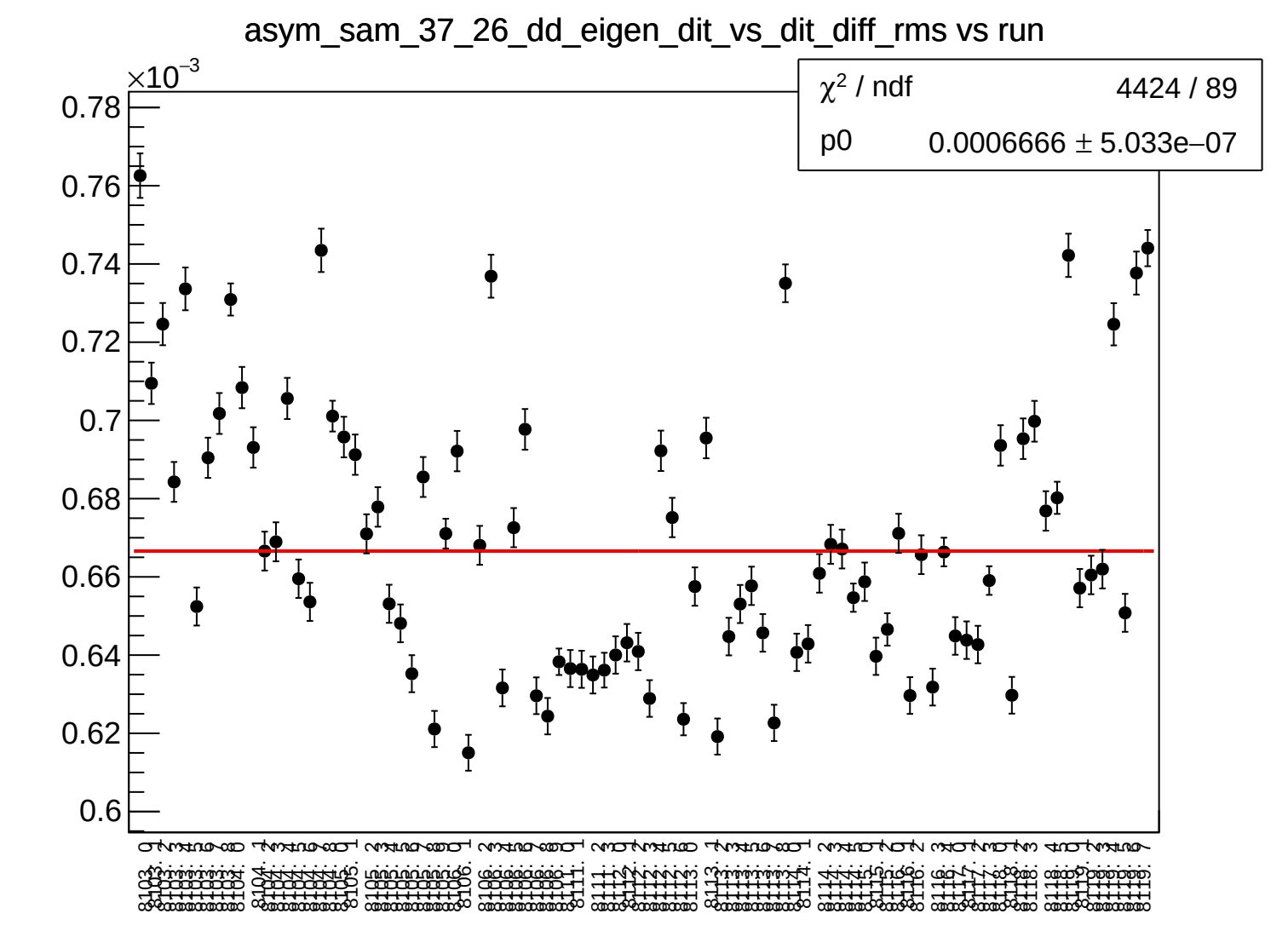

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.89 / 89
p0 0.08643 ± 0.03715
pull
Entries 90
Mean 514.7
Std Dev 0

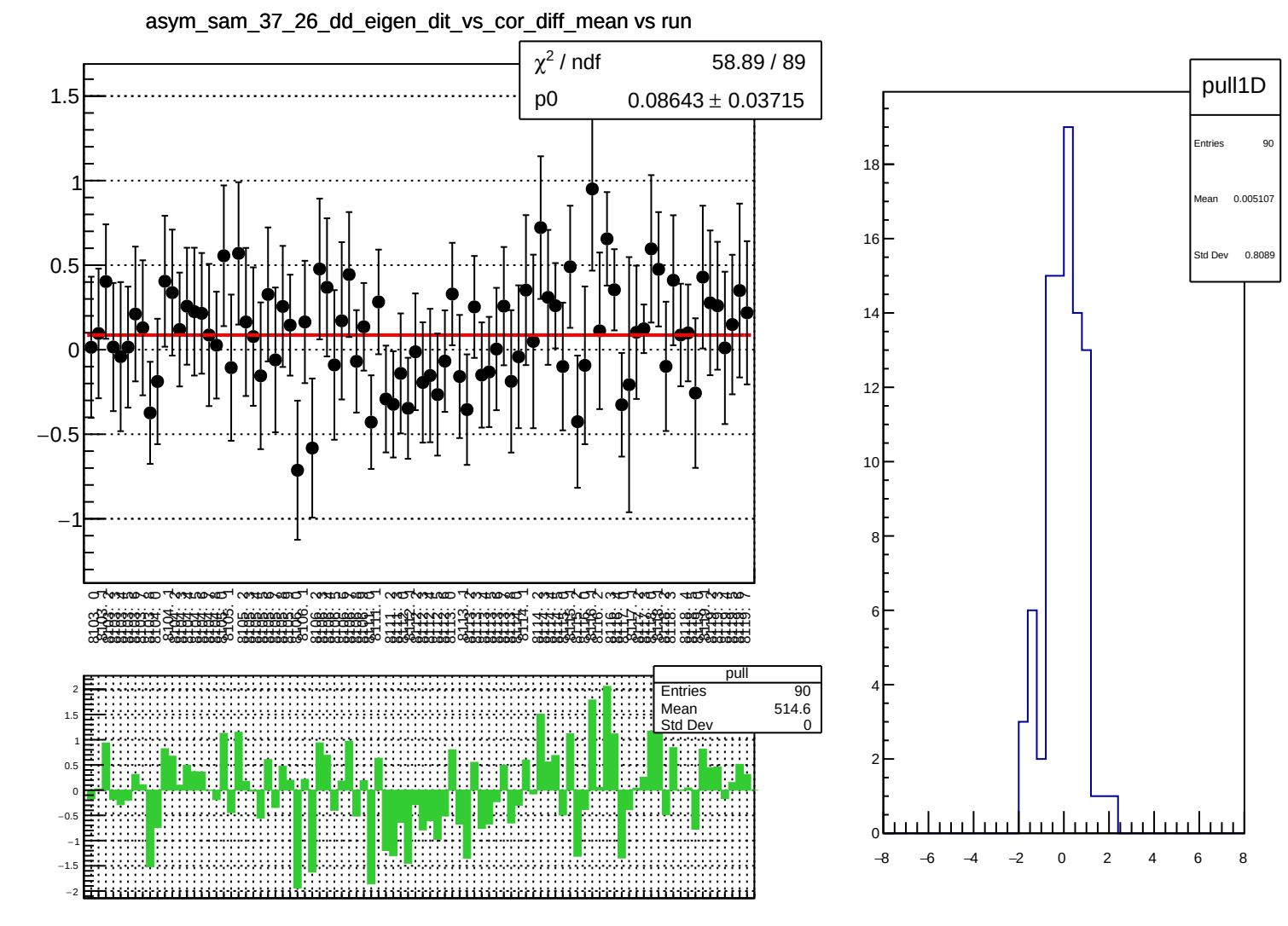

pull1D
Entries 90
Mean 0.005106
Std Dev 0.8089

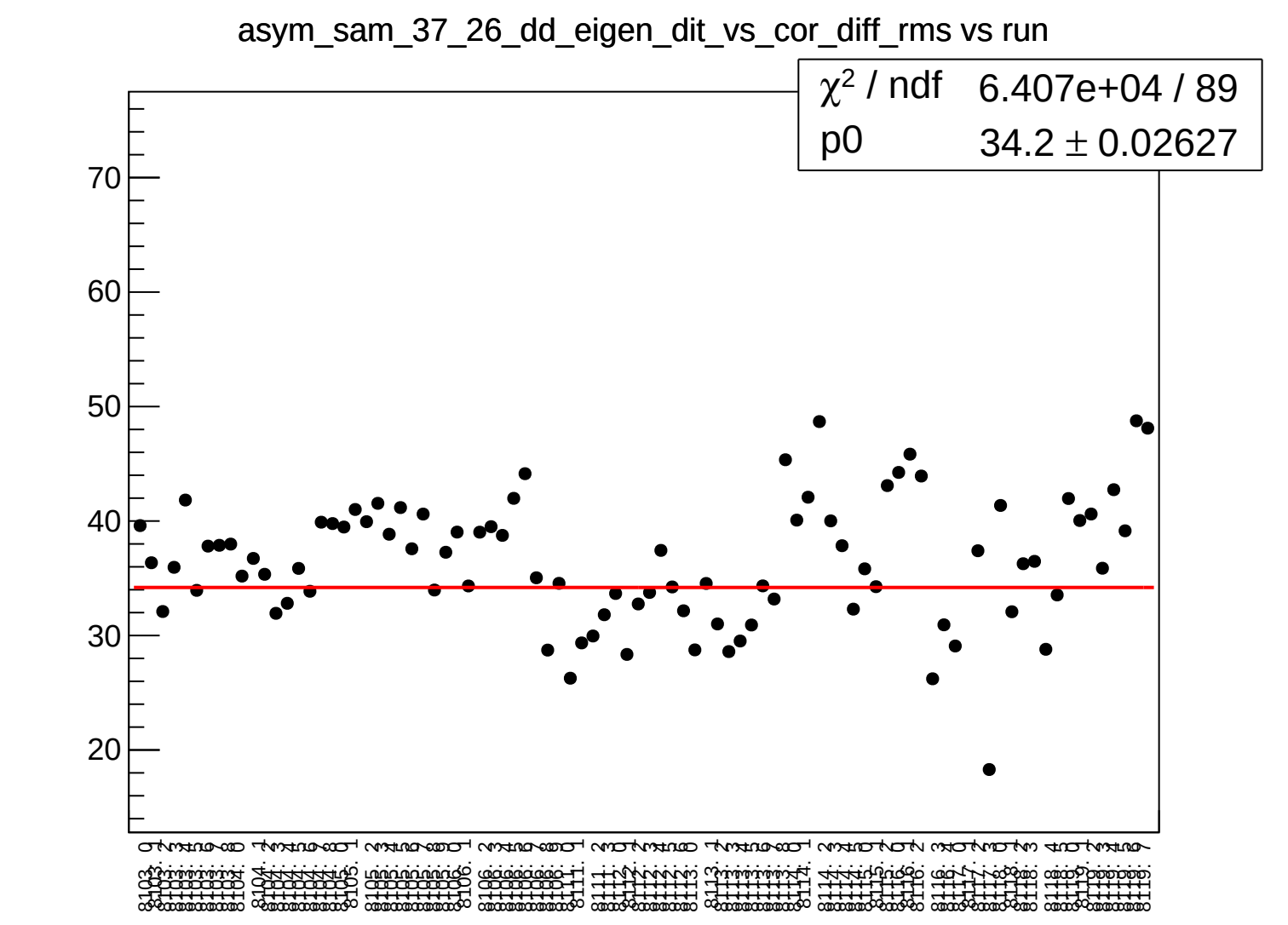

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.407e+04 / 89
p0 34.2 ± 0.02627
70
60
50
40
30
20

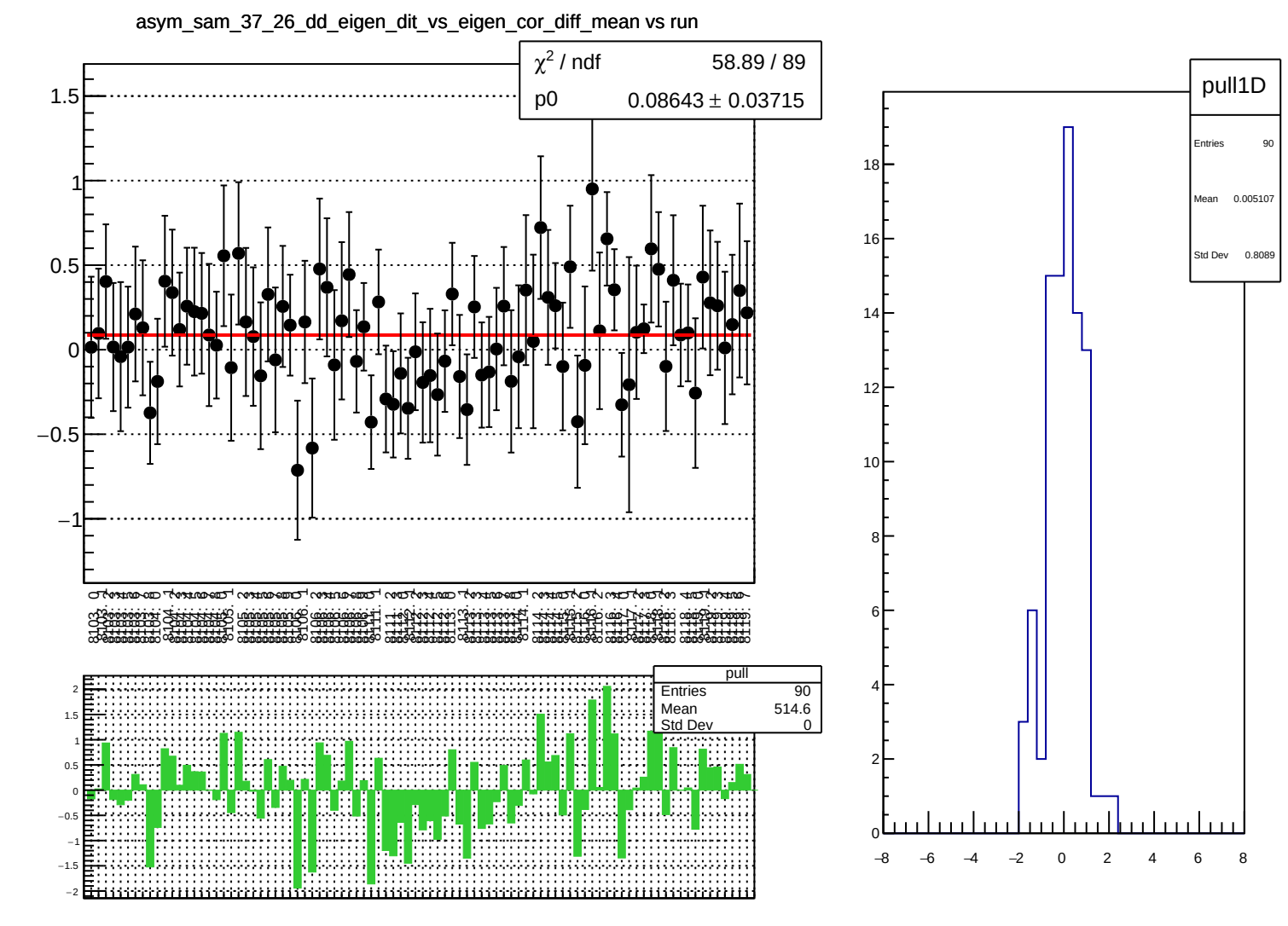

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.7 / 89
p0 −2.251e−06 ± 7.117e−07
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 90
Mean −1172
Std Dev 0
2
1
0
−1
−2

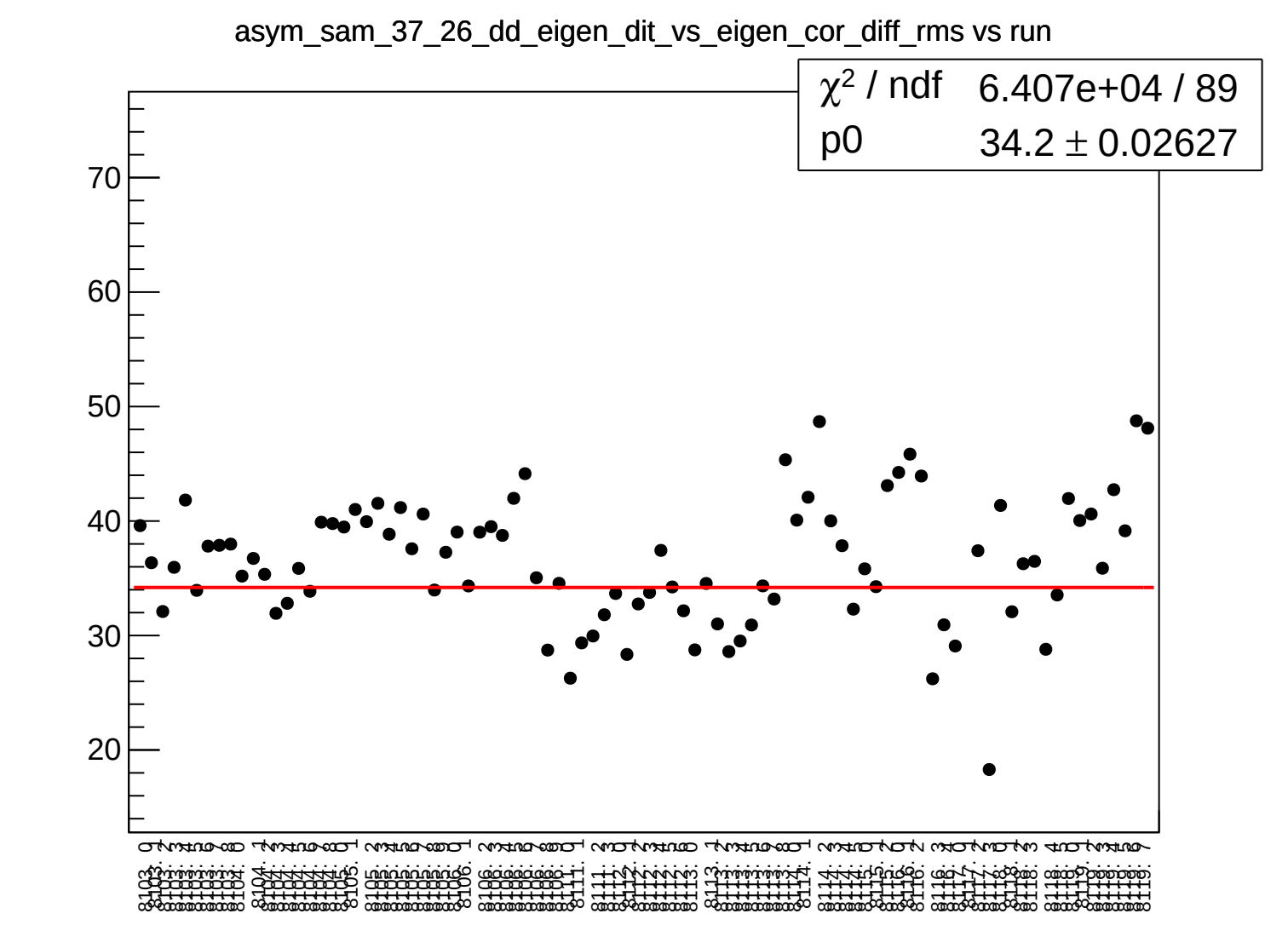

pull1D
Entries 90
Mean −0.004544
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

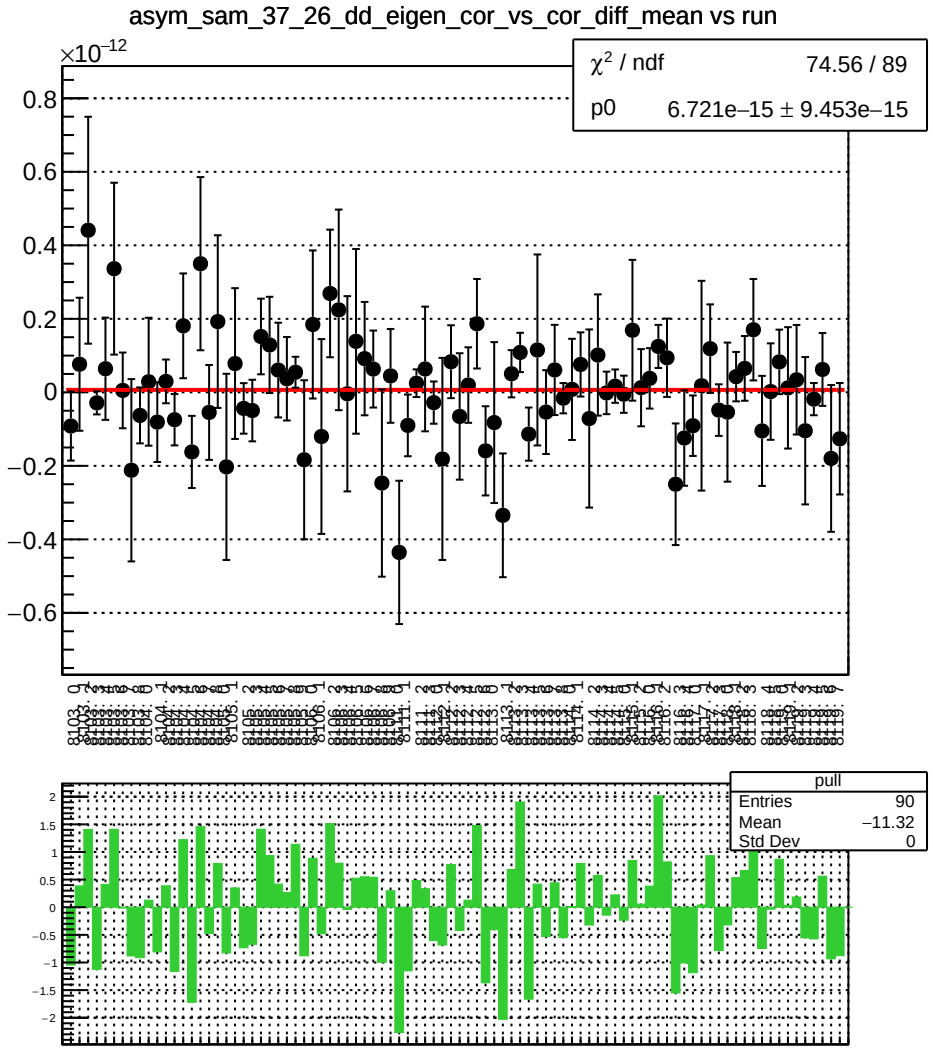

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4424 / 89
p0 0.0006666 ± 5.033e−07
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6

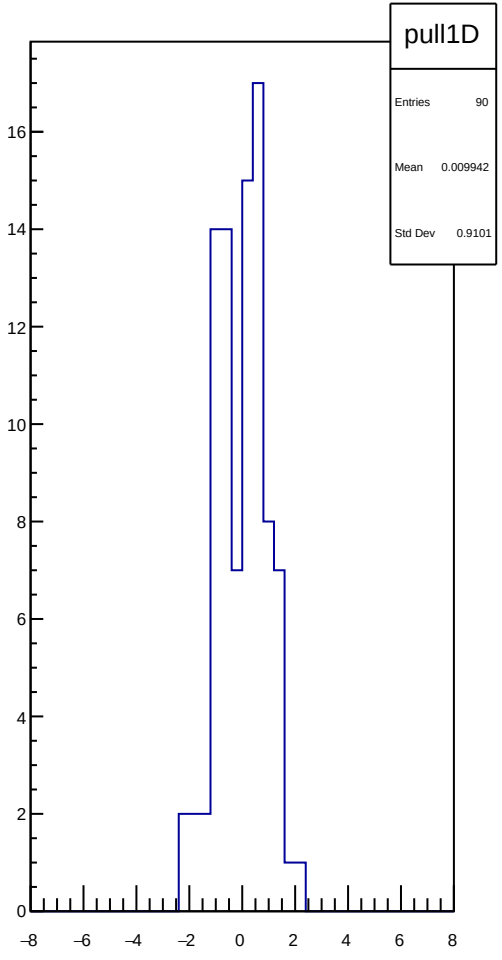

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 58.89 / 89
p0 0.08643 ± 0.03715
pull
Entries 90
Mean 514.6
Std Dev 0
pull1D
Entries 90
Mean 0.005107
Std Dev 0.8089

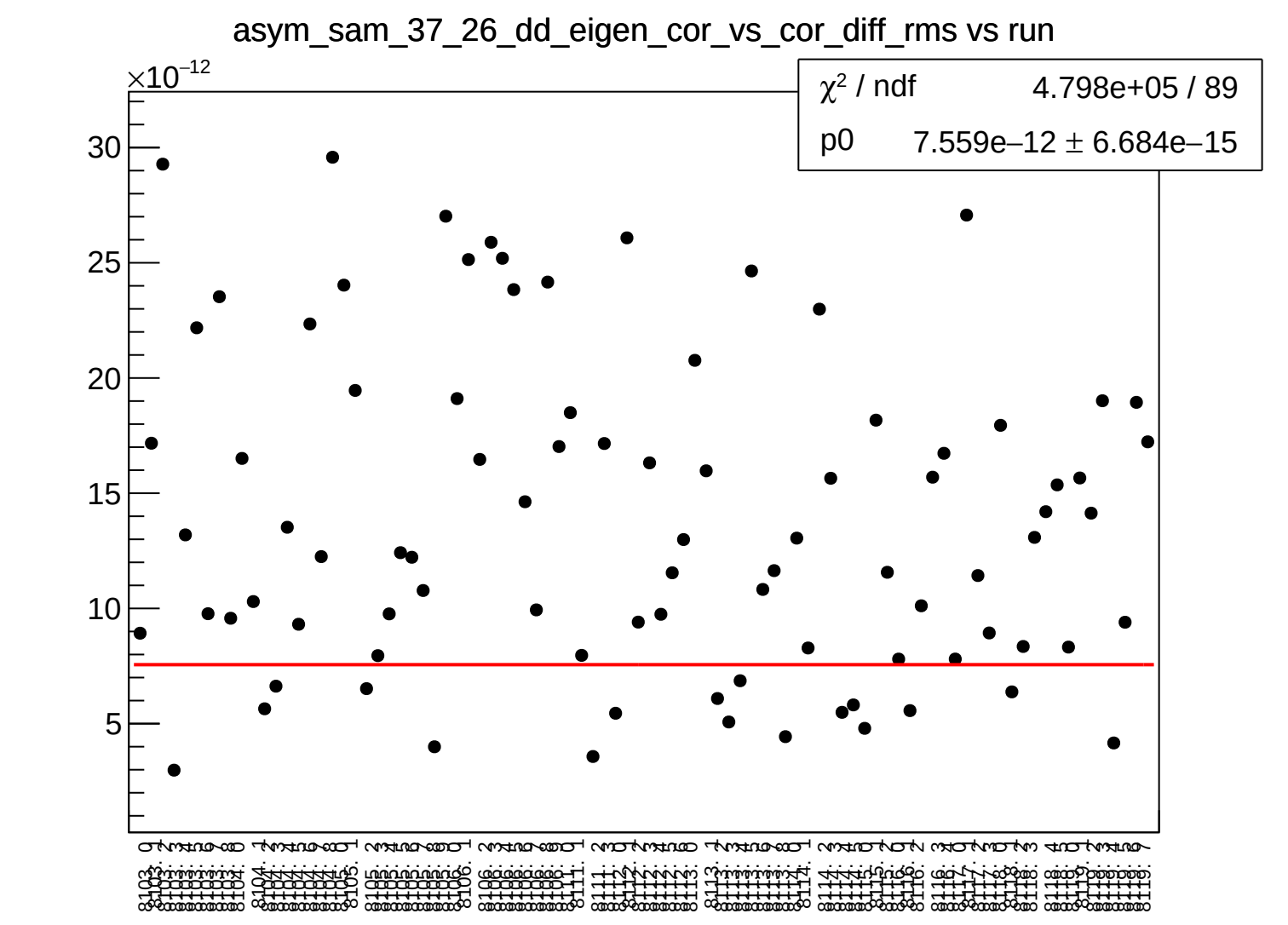

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.407e+04 / 89
p0 34.2 ± 0.02627
70
60
50
40
30
20

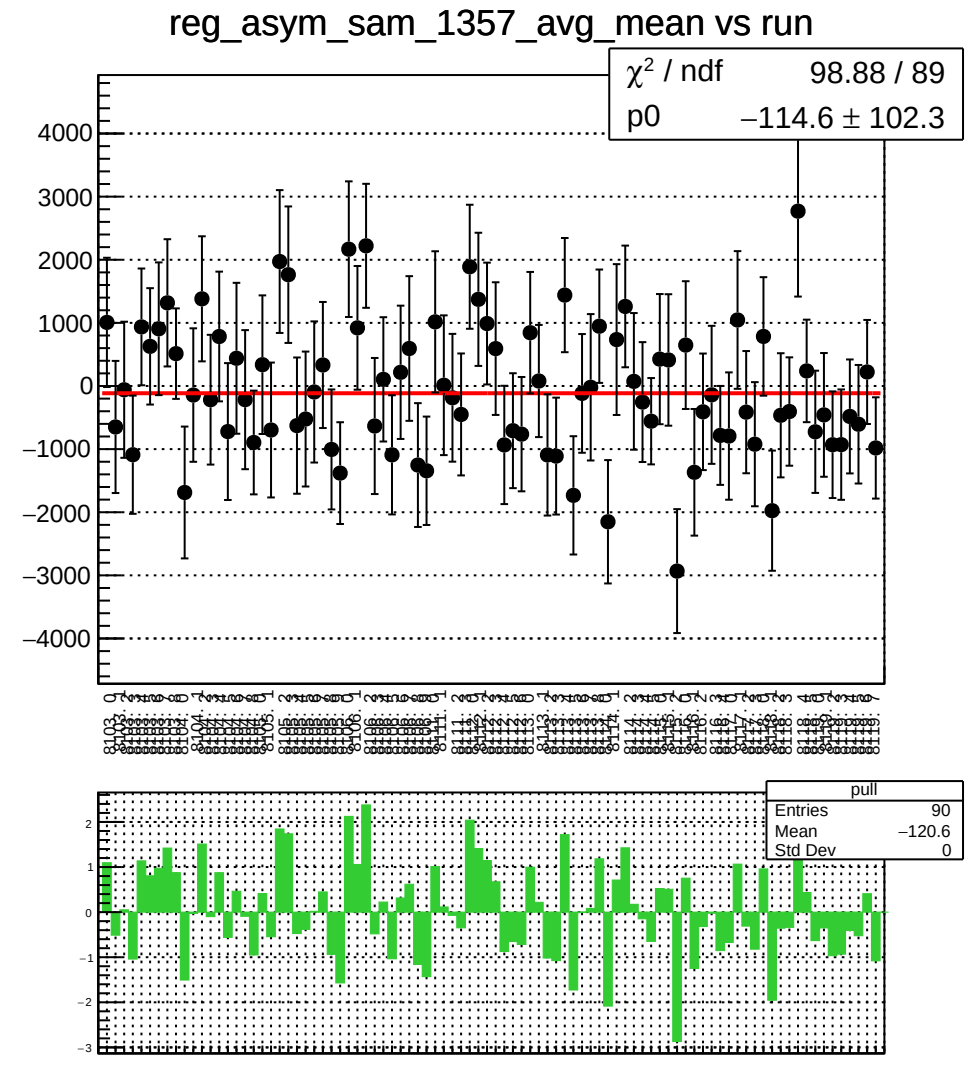

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.89 / 89
p0 0.08643 ± 0.03715
pull
Entries 90
Mean 514.6
Std Dev 0
pull1D
Entries 90
Mean 0.005107
Std Dev 0.8089

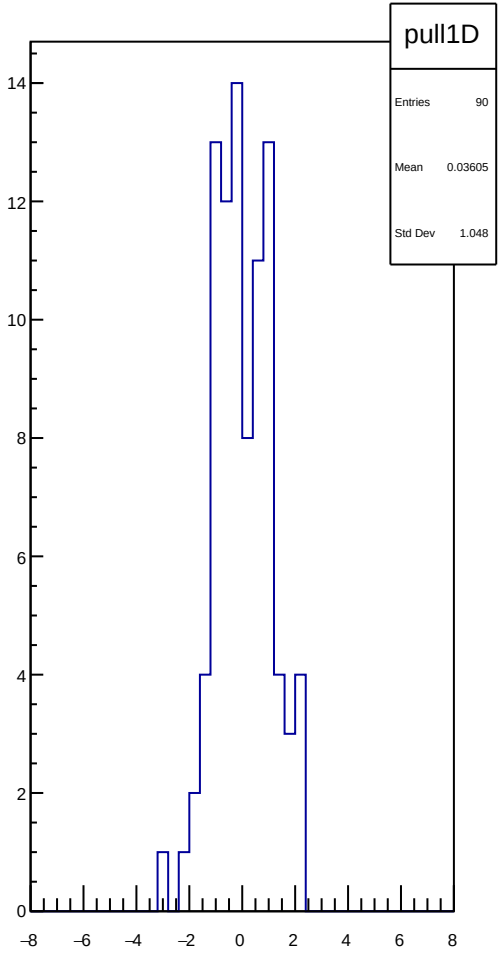

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.407e+04 / 89
p0 34.2 ± 0.02627
70
60
50
40
30
20

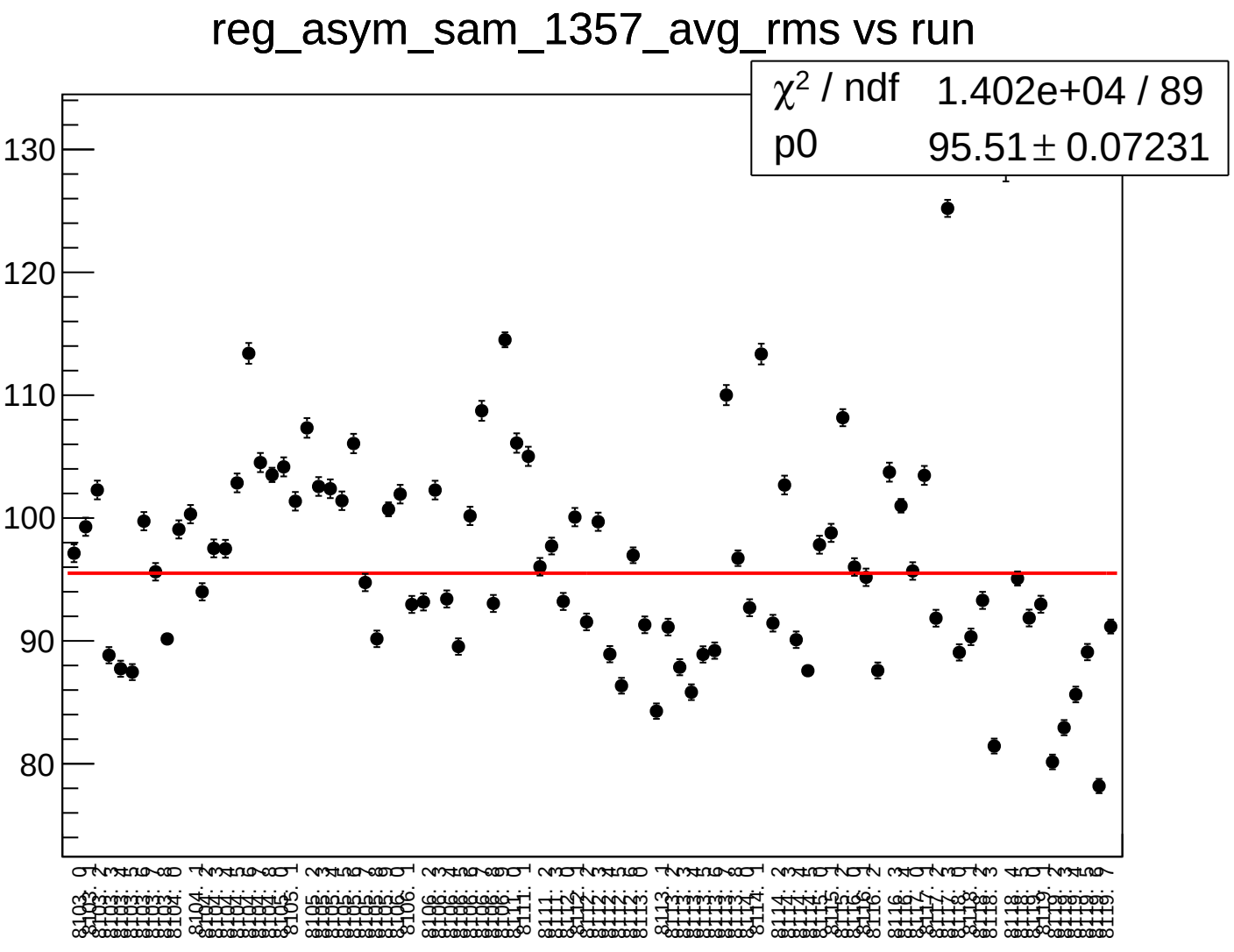

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.56 / 89
p0 6.721e−15 ± 9.453e−15
pull
Entries 90
Mean −11.32
Std Dev 0

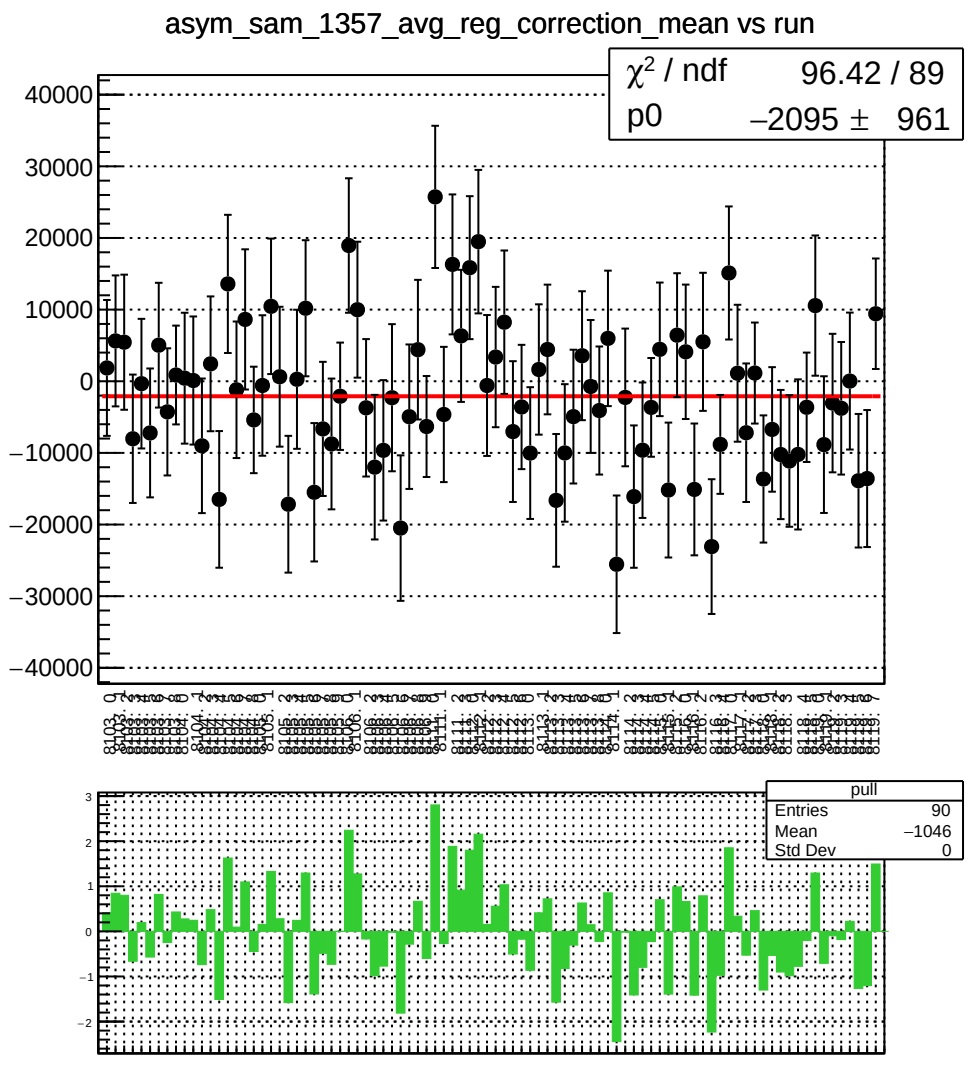

pull1D
Entries 90
Mean 0.009942
Std Dev 0.9101

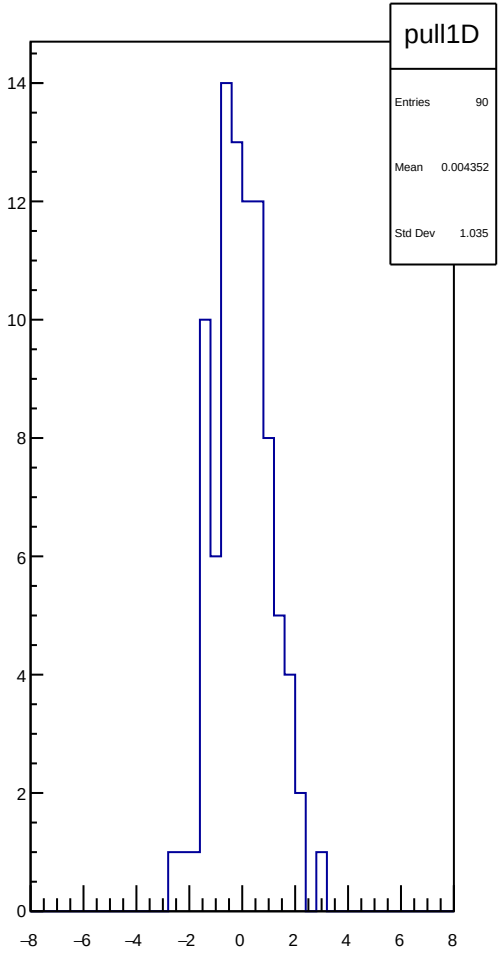

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.798e+05 / 89
p0 7.559e−12 ± 6.684e−15
30
25
20
15
10
5

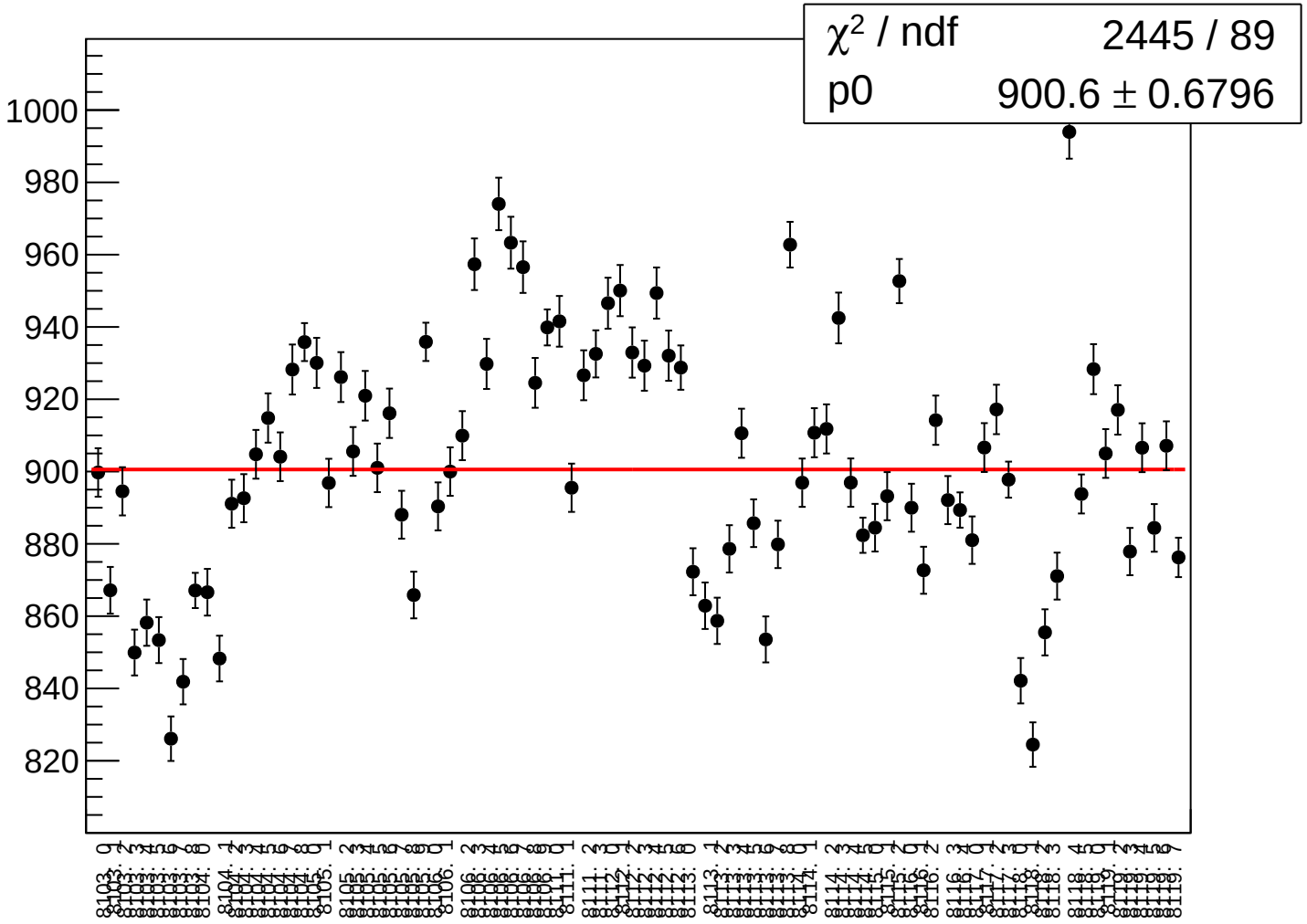

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 98.88 / 89
p0 −114.6 ± 102.3
pull
Entries 90
Mean −120.6
Std Dev 0

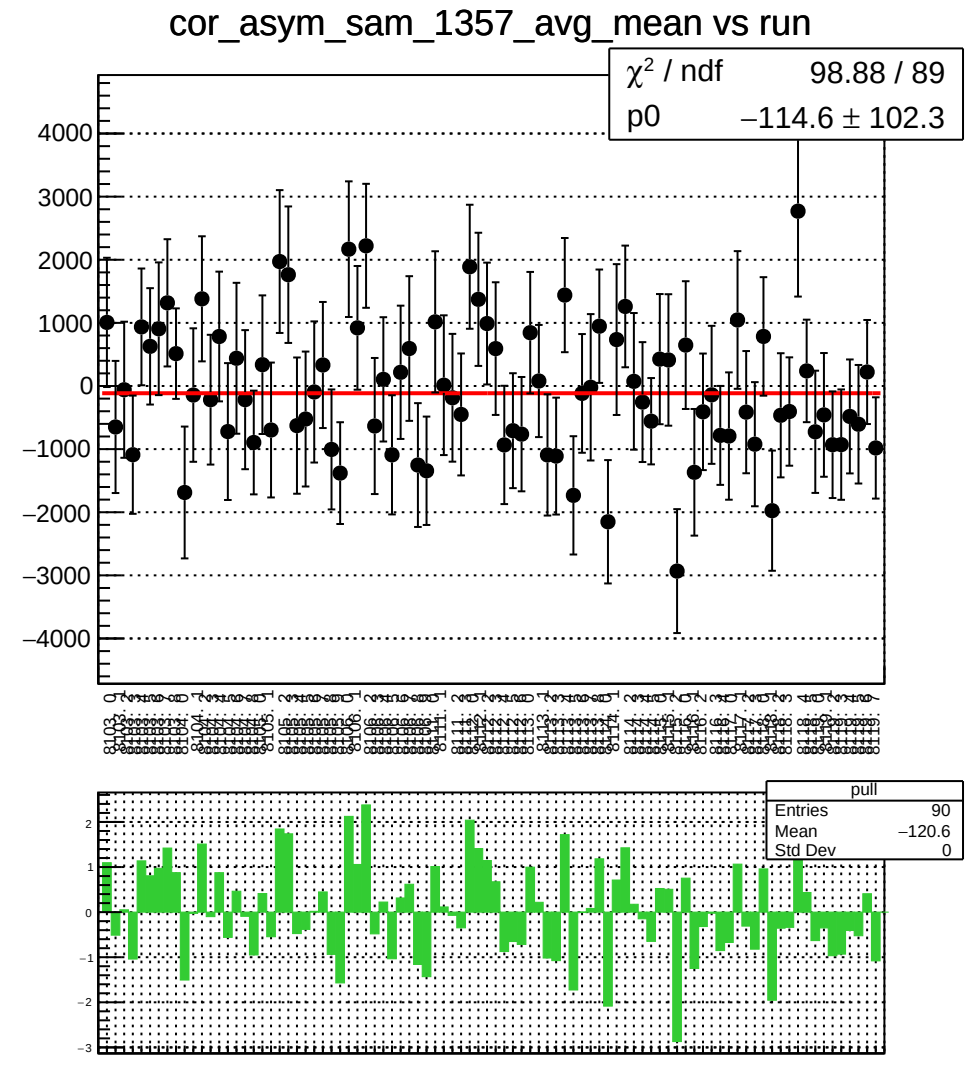

pull1D
Entries 90
Mean 0.03605
Std Dev 1.048

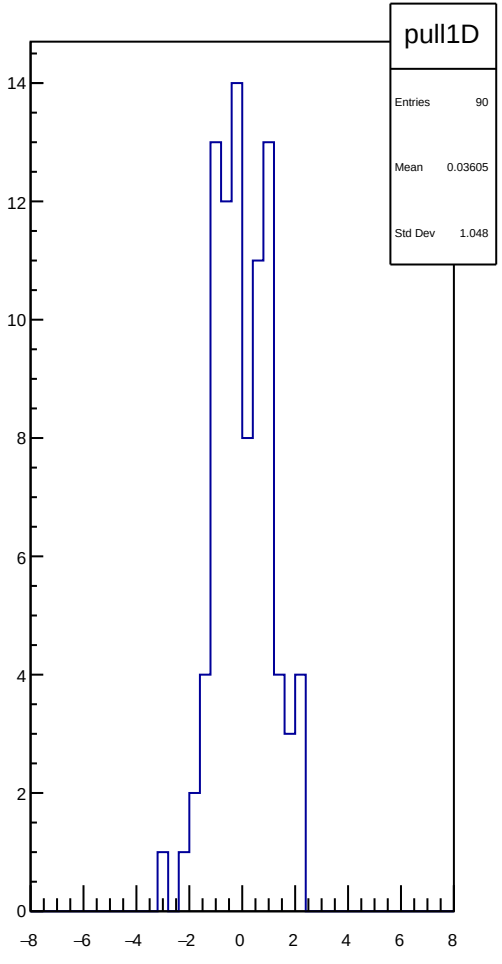

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.402e+04 / 89
p0 95.51 ± 0.07231
130
120
110
100
90
80

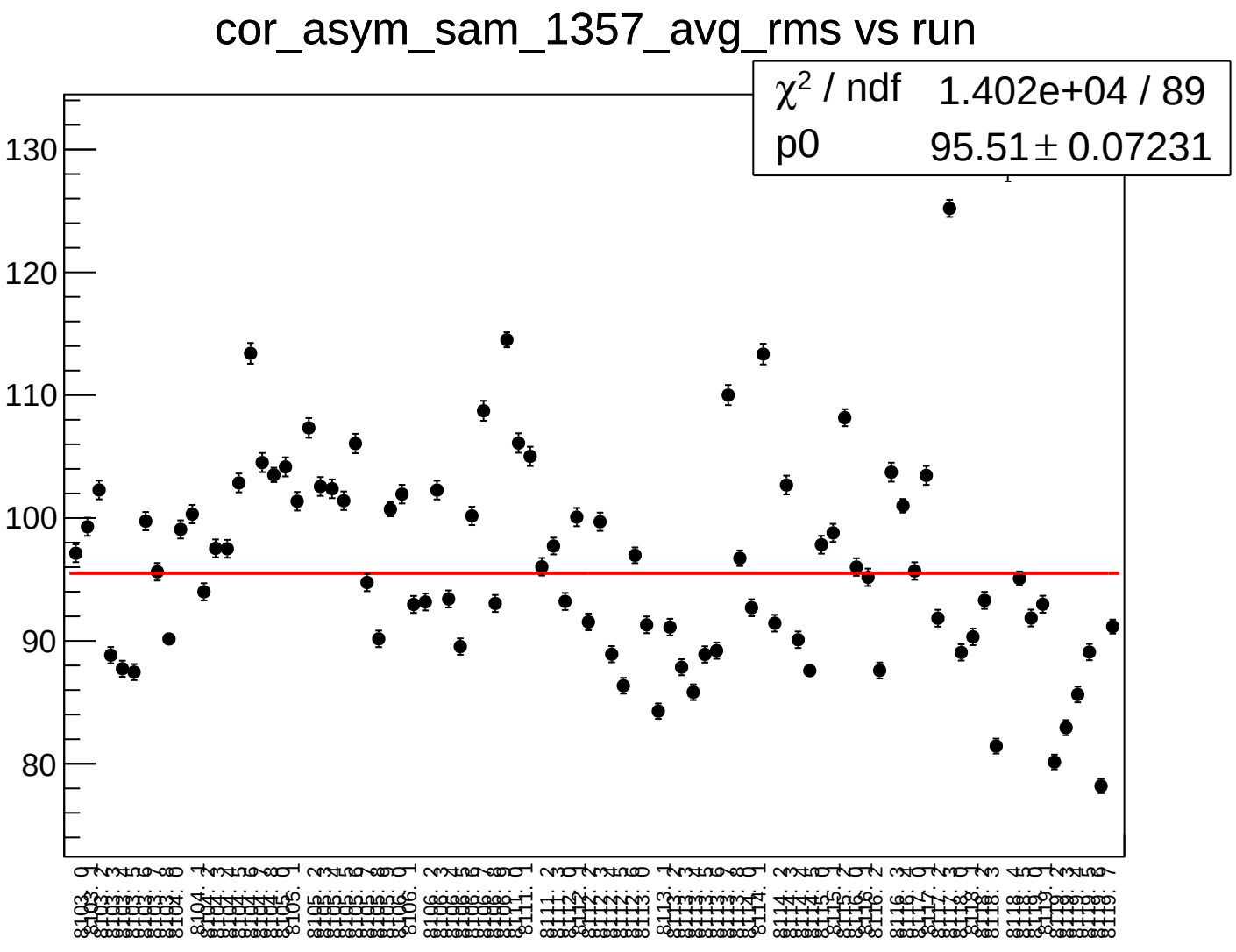

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 96.42 / 89
p0 −2095 ± 961
pull
Entries 90
Mean −1046
Std Dev 0

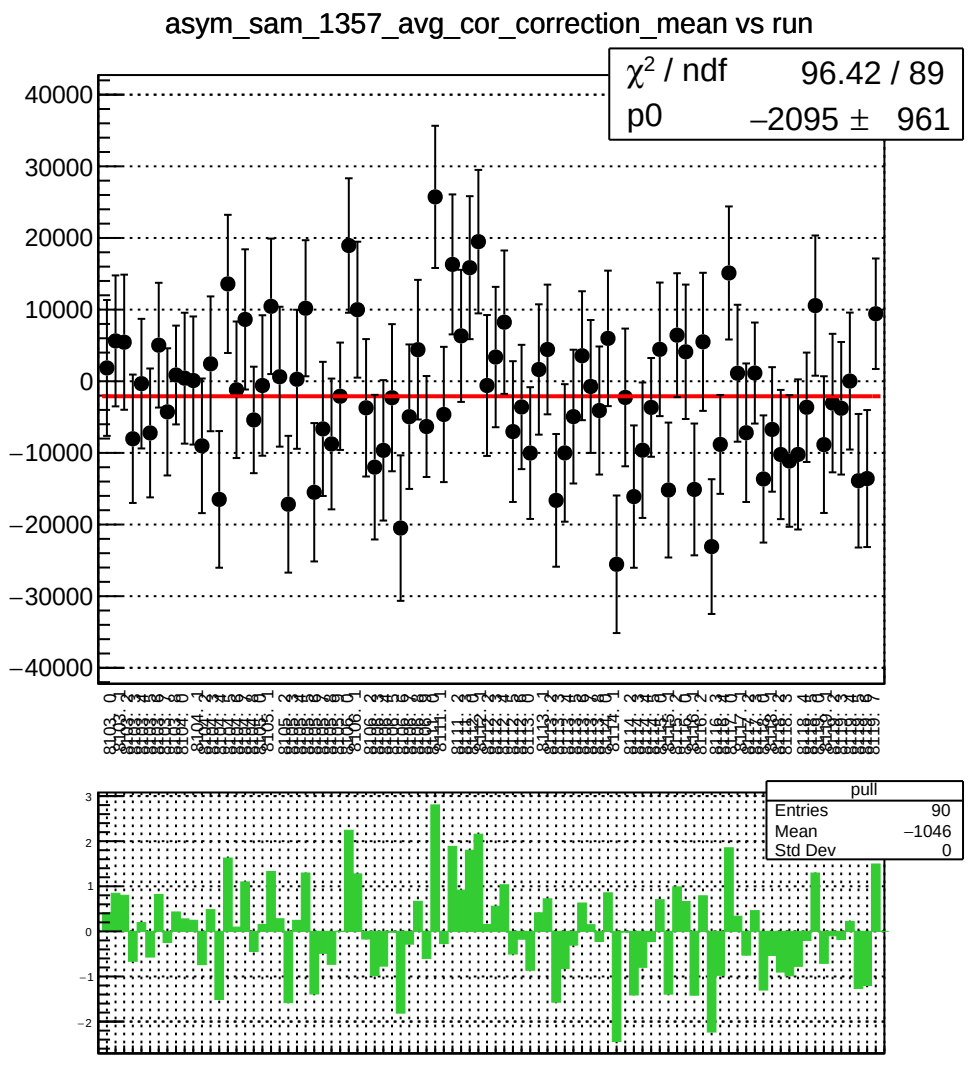

pull1D
Entries 90
Mean 0.004352
Std Dev 1.035

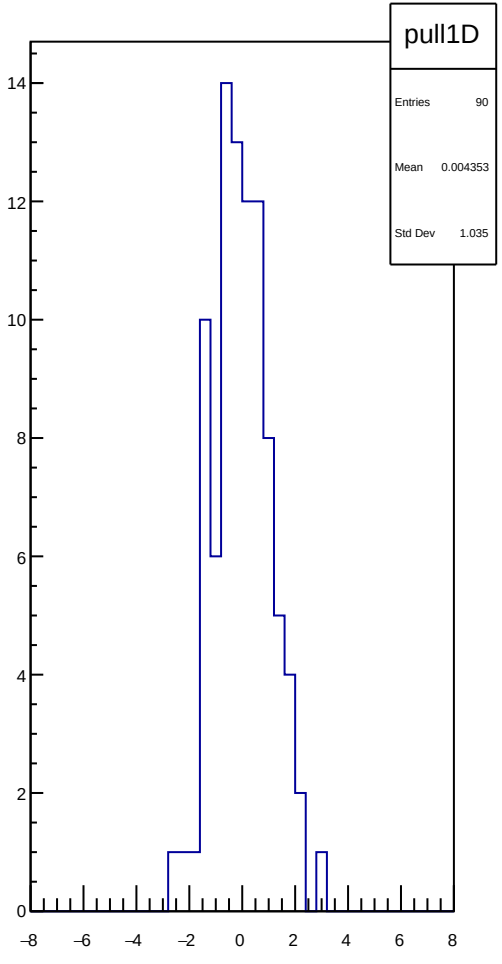

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 2445 / 89
p0 900.6 ± 0.6796
1000
980
960
940
920
900
880
860
840
820

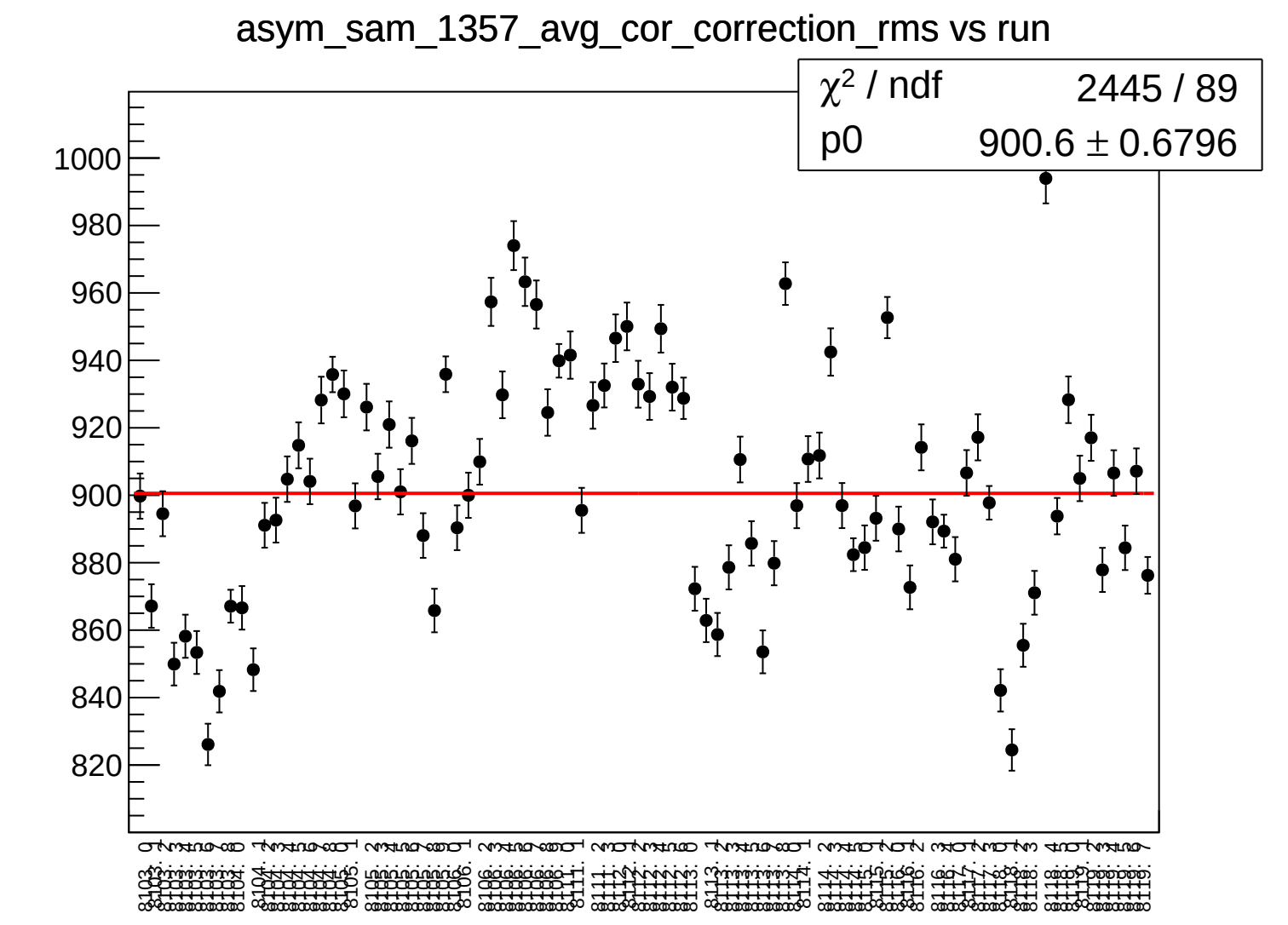

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 98.88 / 89
p0 −114.6 ± 102.3
pull
Entries 90
Mean −120.6
Std Dev 0

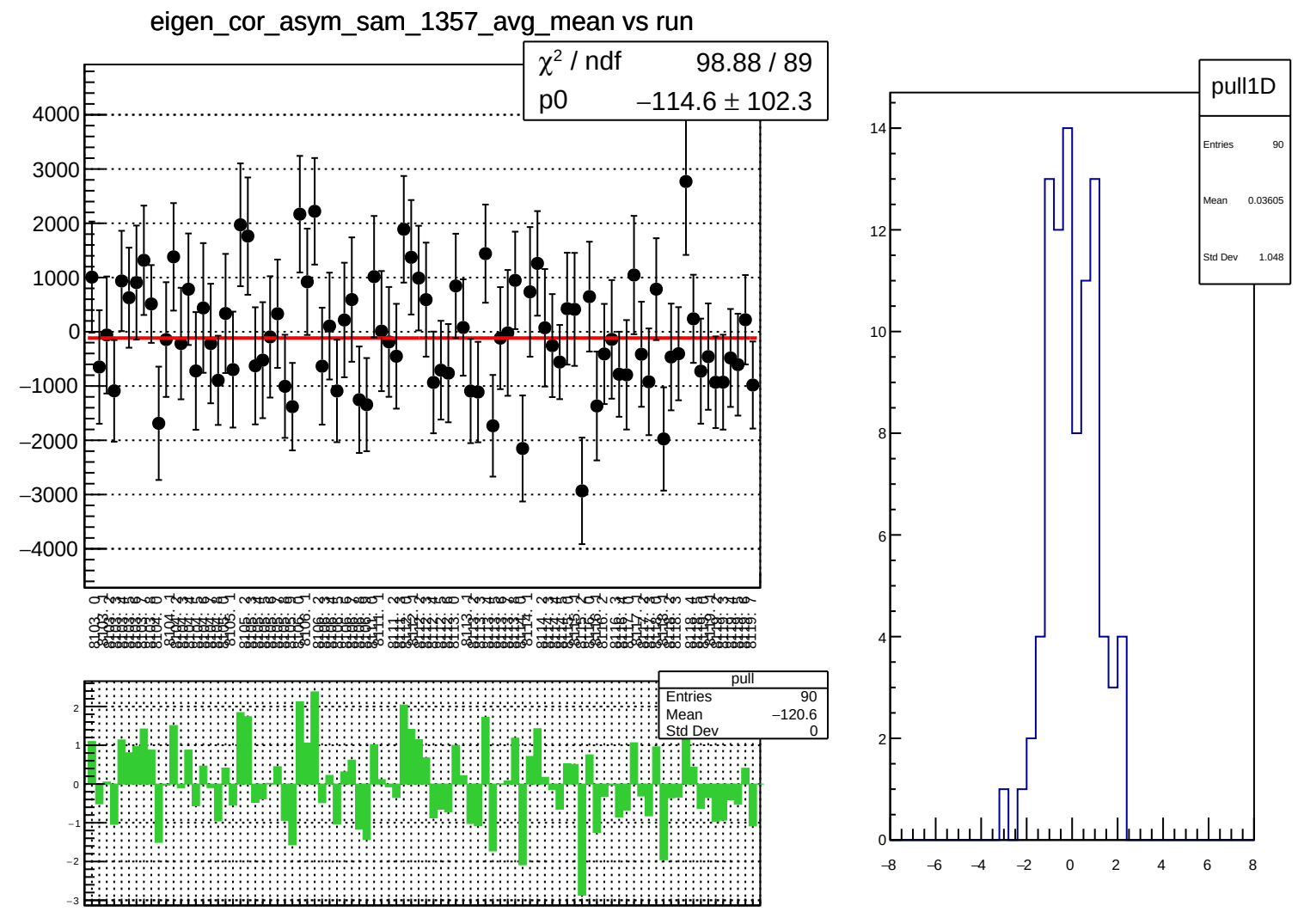

pull1D
Entries 90
Mean 0.03605
Std Dev 1.048

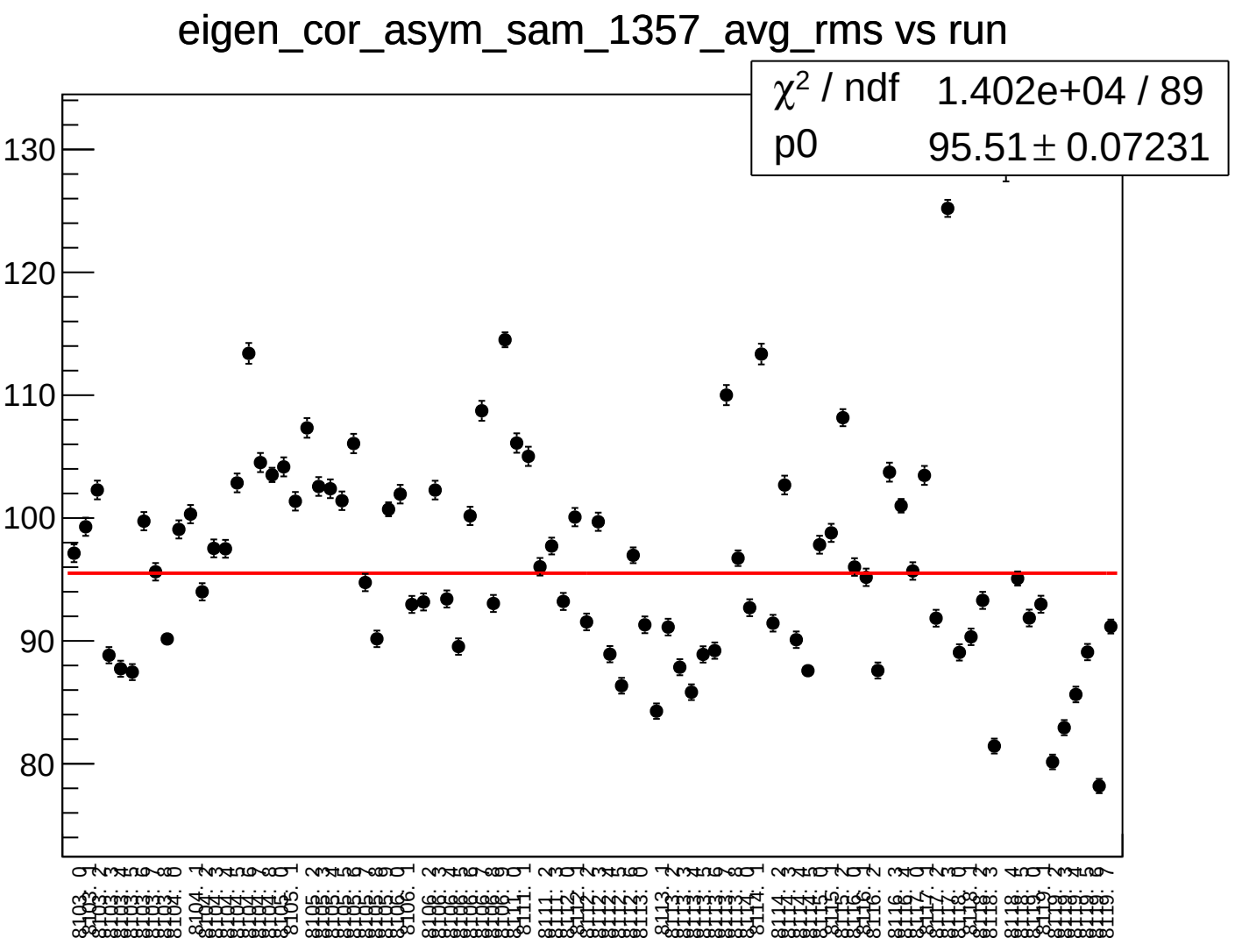

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.402e+04 / 89
p0 95.51 ± 0.07231
130
120
110
100
90
80

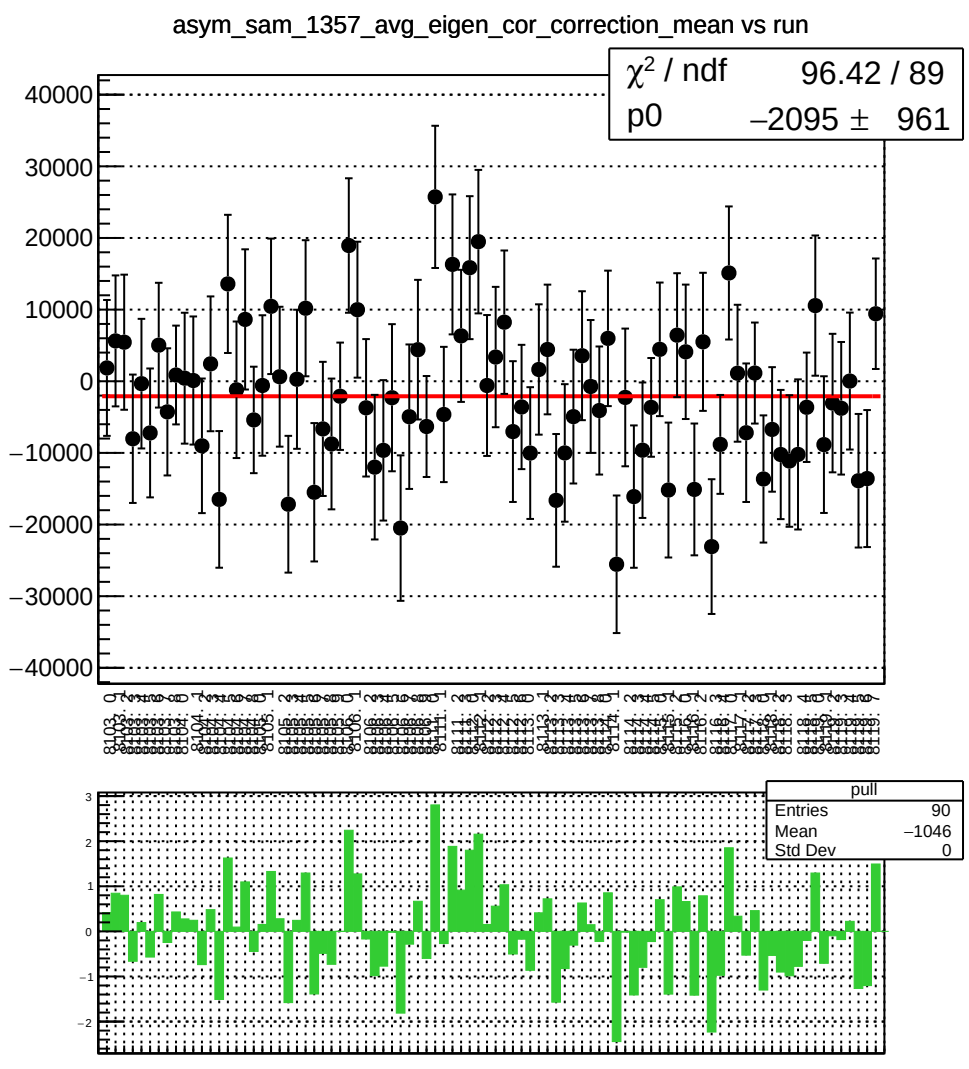

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 96.42 / 89
p0 −2095 ± 961
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −1046
Std Dev 0
3
2
1
0
−1
−2

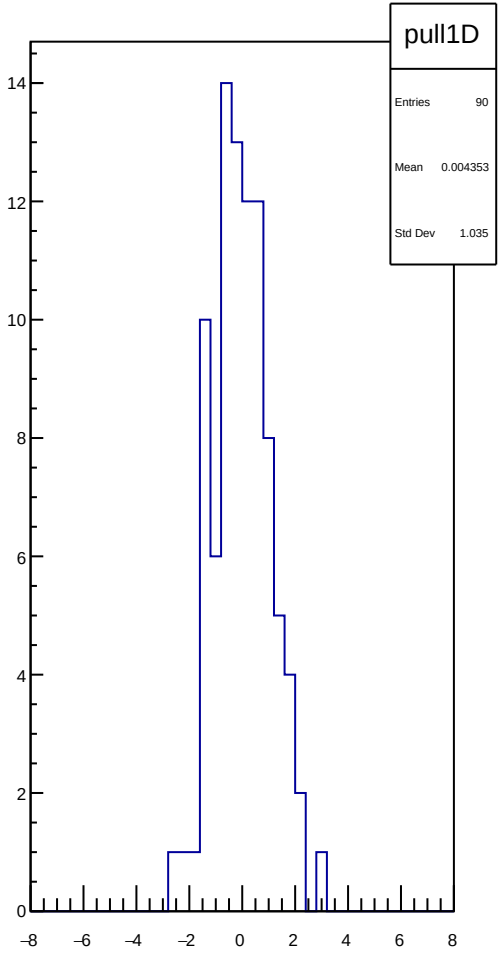

pull1D
Entries 90
Mean 0.004353
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

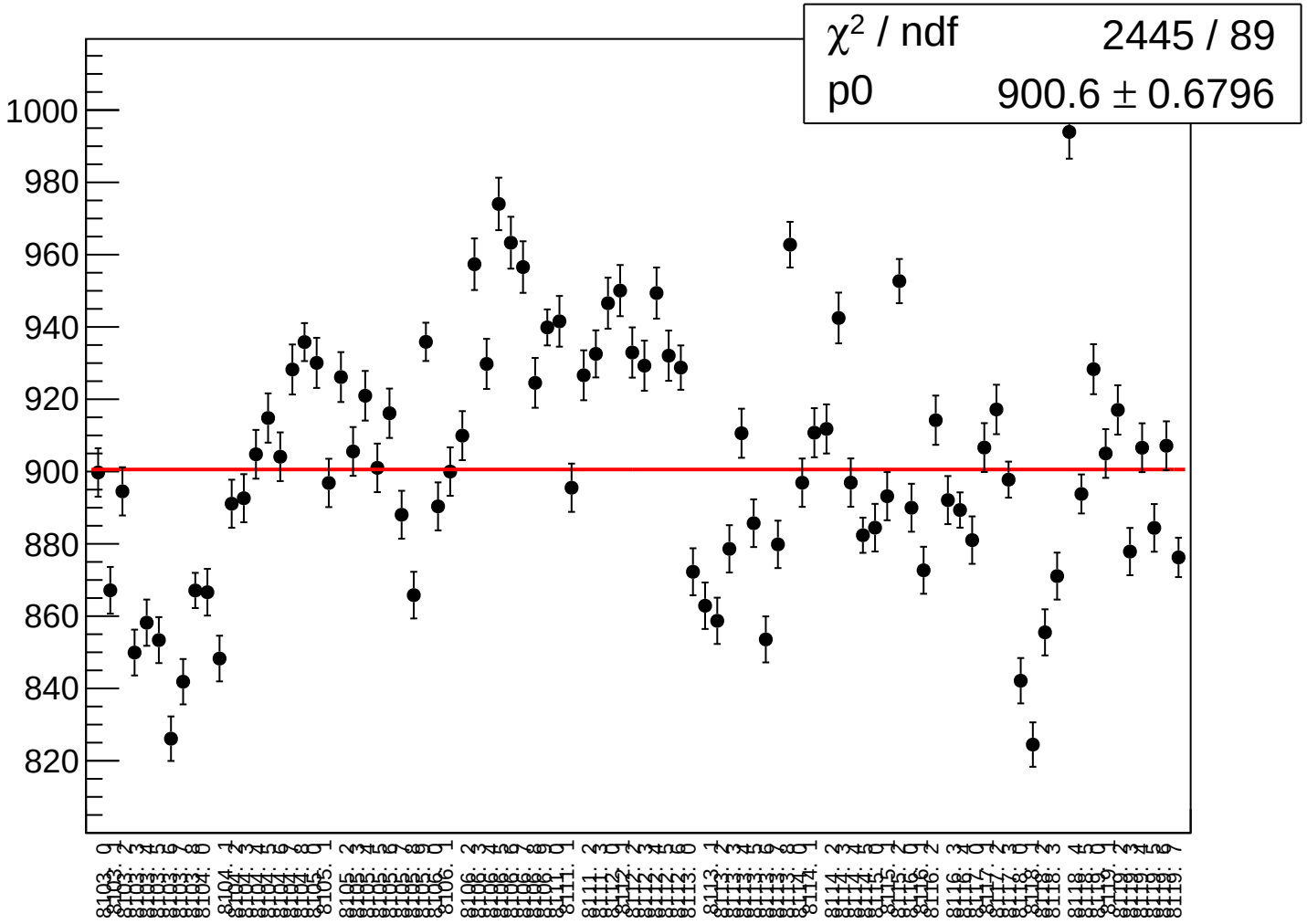

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 2445 / 89
p0 900.6 ± 0.6796
1000
980
960
940
920
900
880
860
840
820

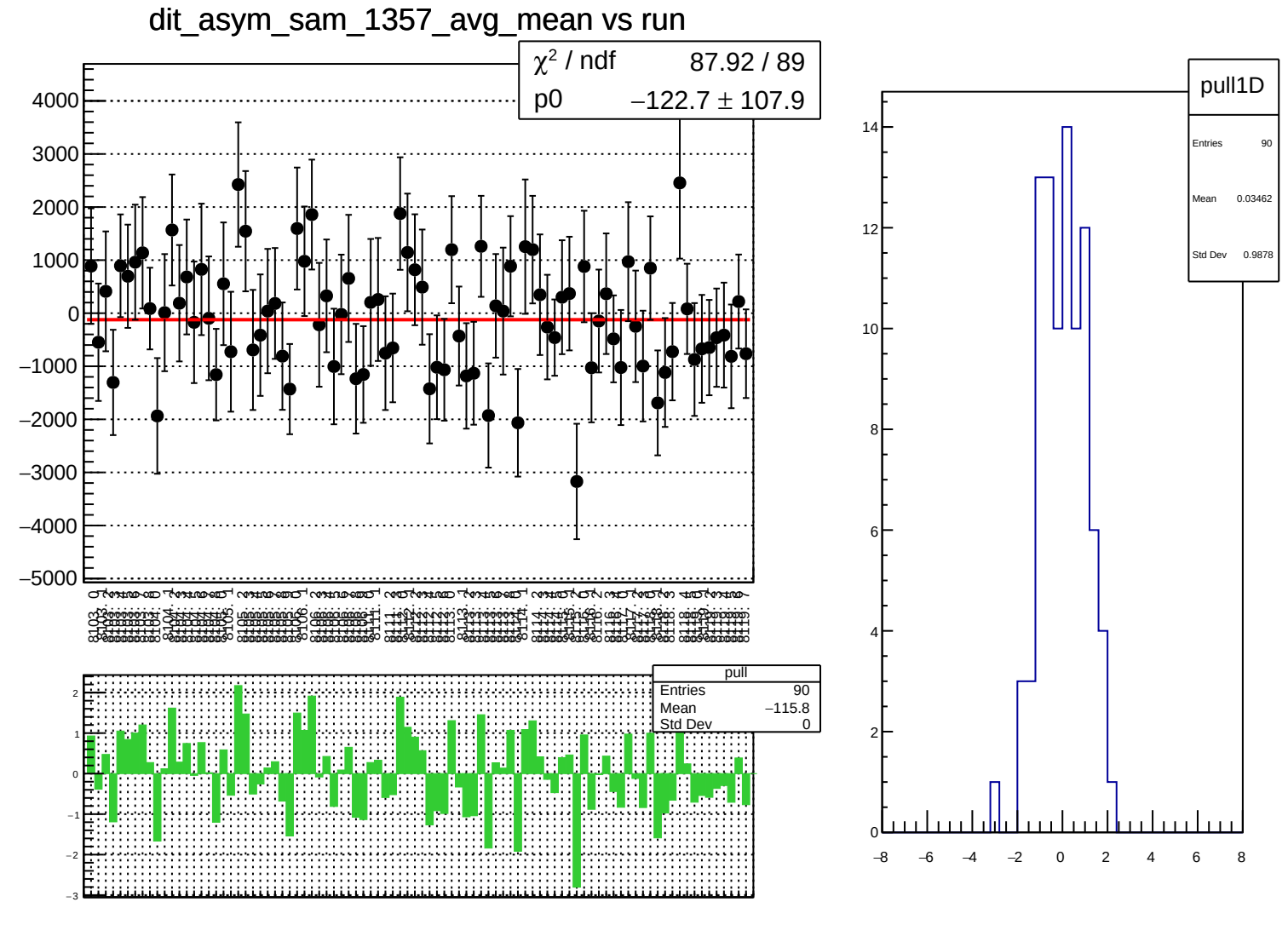

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 98.88 / 89
p0 −114.6 ± 102.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 90
Mean −120.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.03605
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

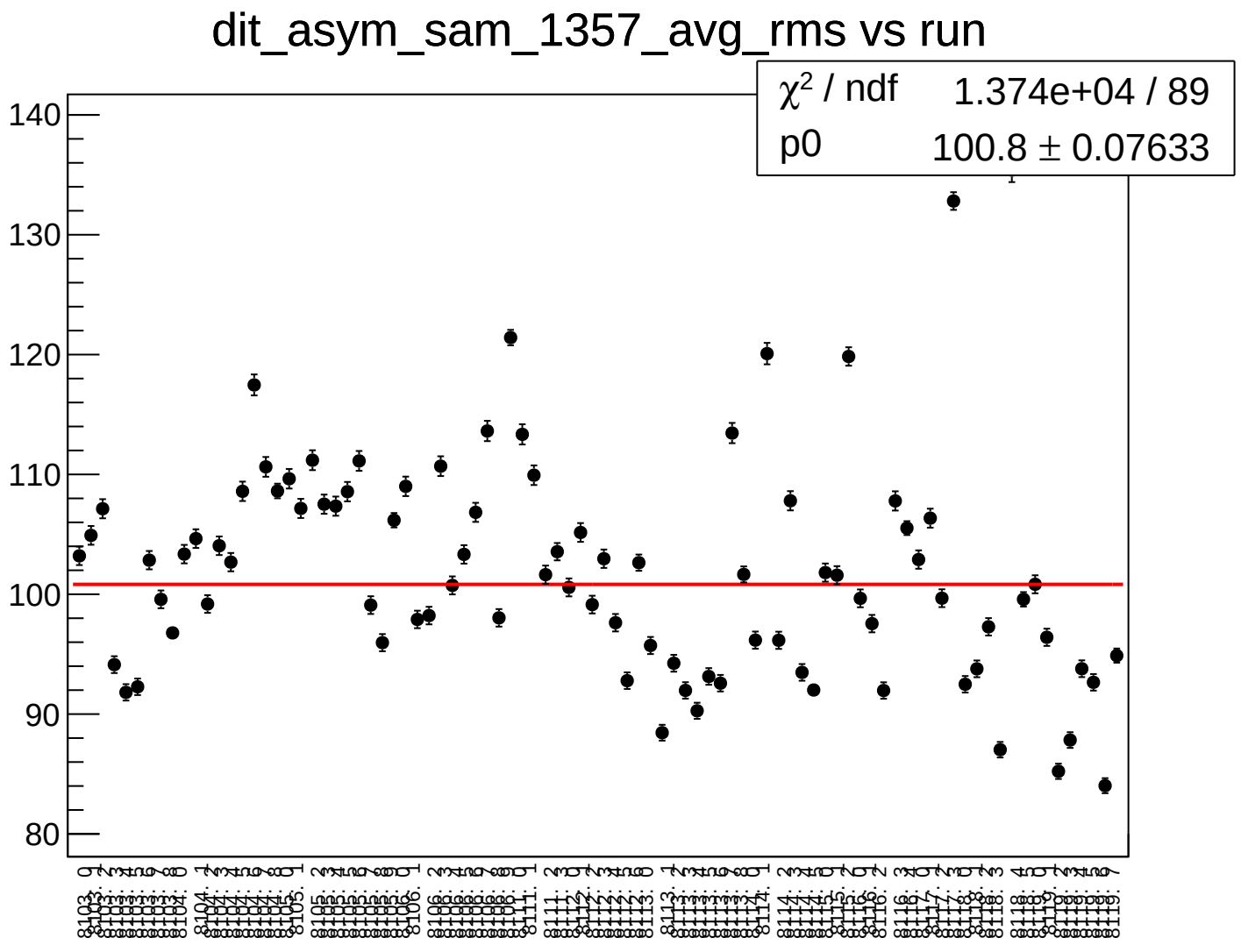

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.402e+04 / 89
p0 95.51 ± 0.07231
130
120
110
100
90
80

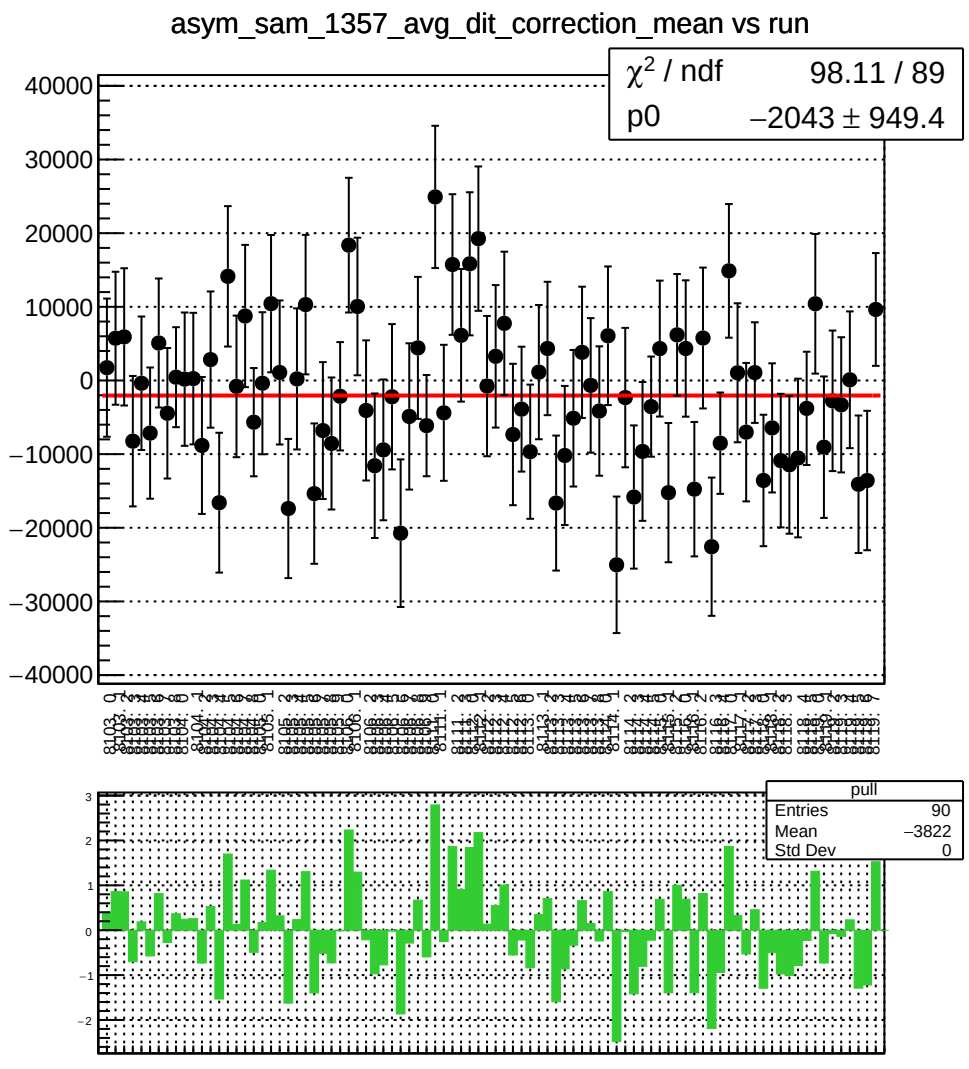

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.42 / 89
p0 −2095 ± 961
pull
Entries 90
Mean −1046
Std Dev 0

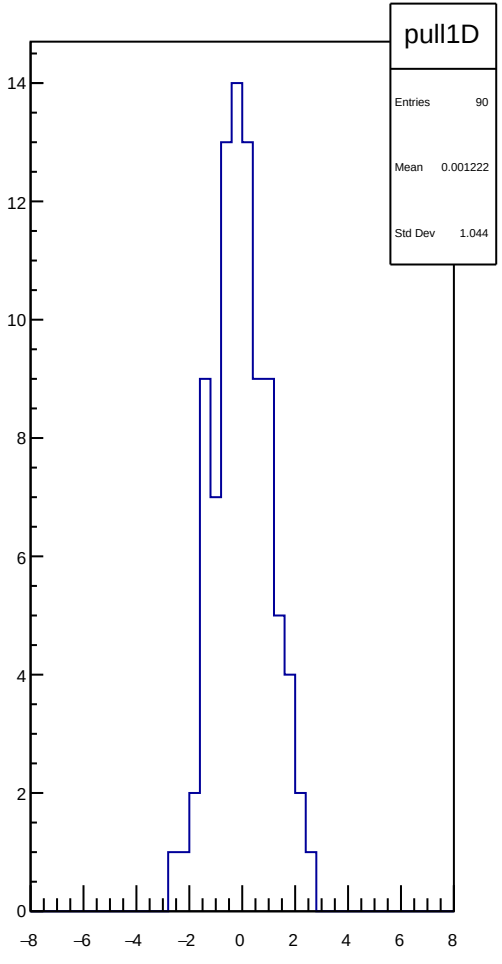

pull1D
Entries 90
Mean 0.004353
Std Dev 1.035

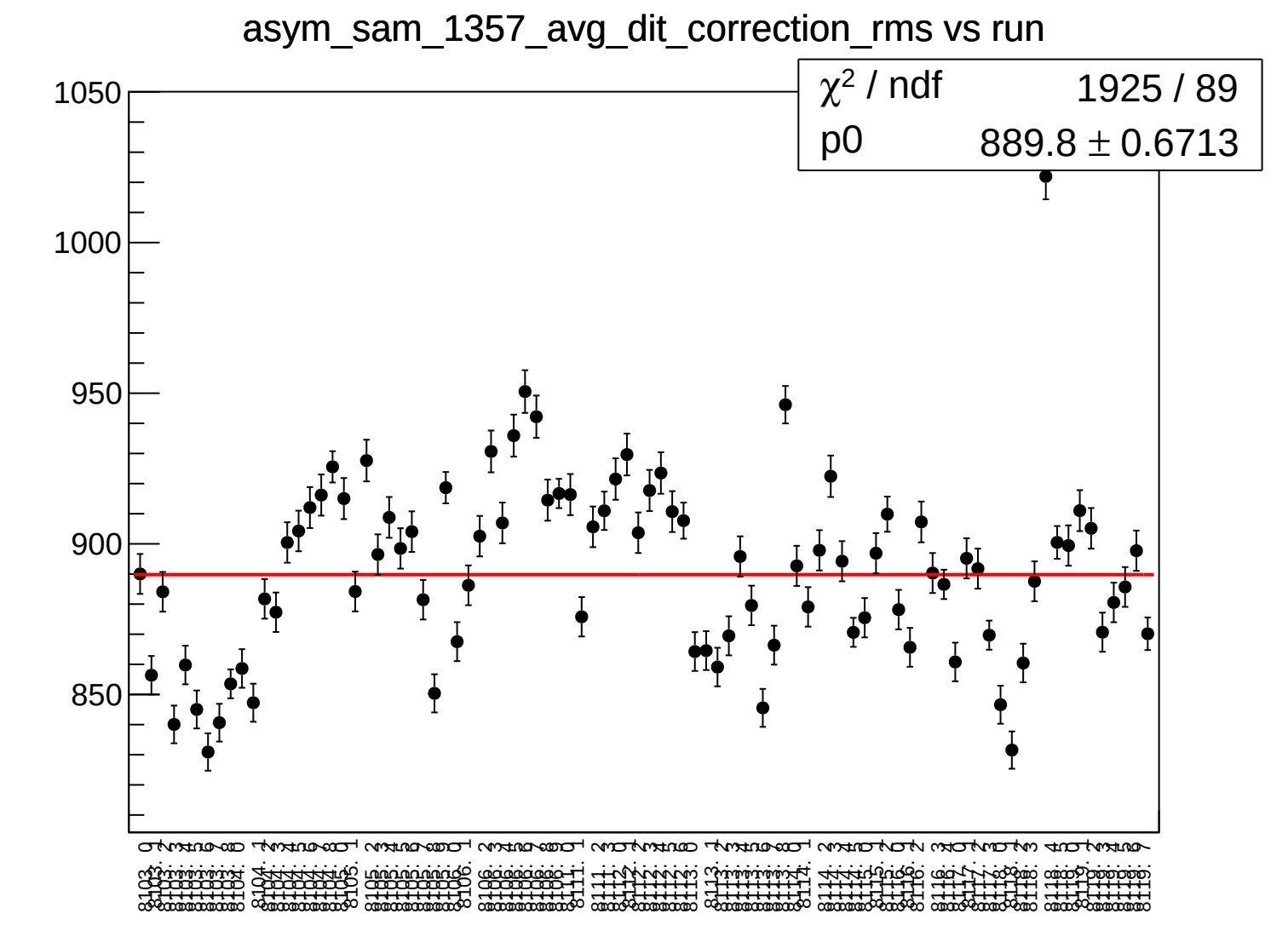

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 2445 / 89
p0 900.6 ± 0.6796
1000
980
960
940
920
900
880
860
840
820

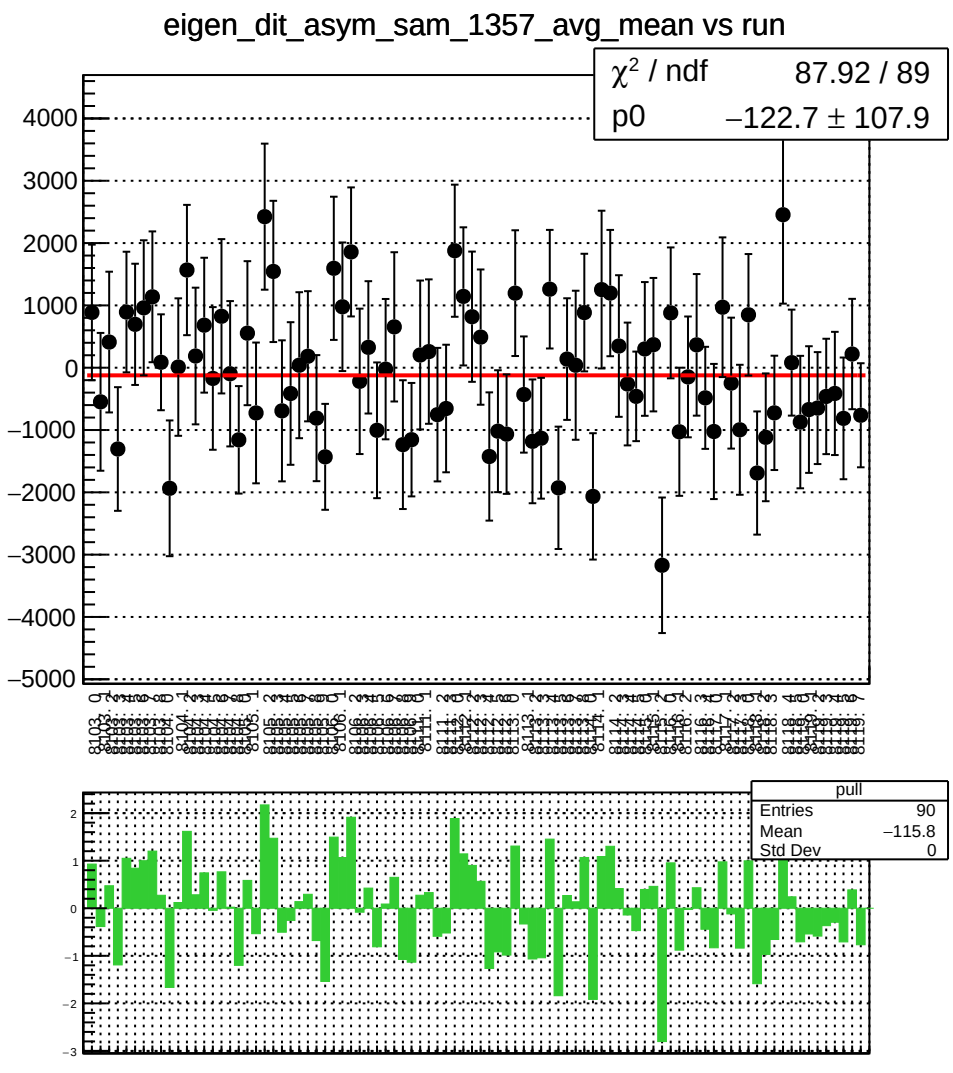

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 87.92 / 89
p0 −122.7 ± 107.9
pull
Entries 90
Mean −115.8
Std Dev 0
pull1D
Entries 90
Mean 0.03462
Std Dev 0.9878

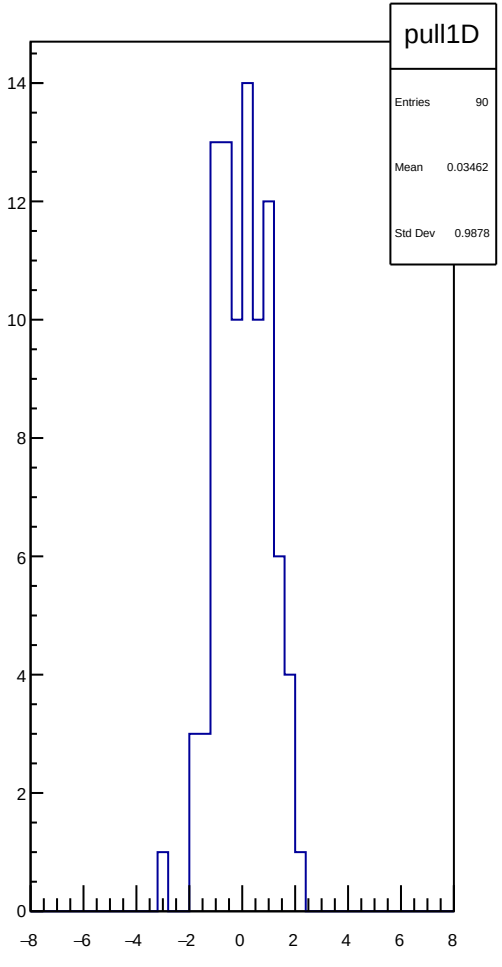

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.374e+04 / 89
p0 100.8 ± 0.07633
140
130
120
110
100
90
80

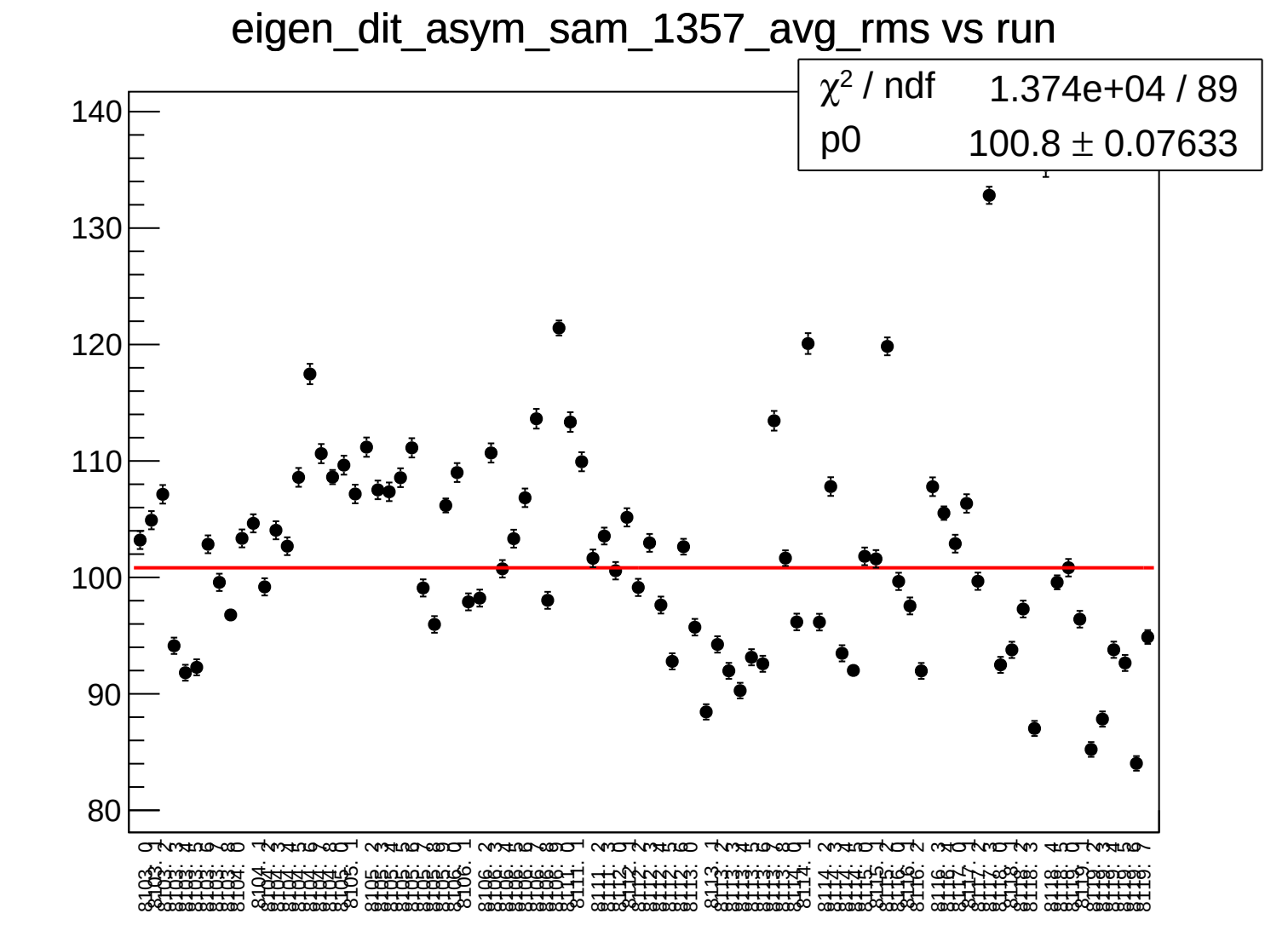

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 98.11 / 89
p0 −2043 ± 949.4
pull
Entries 90
Mean −3822
Std Dev 0

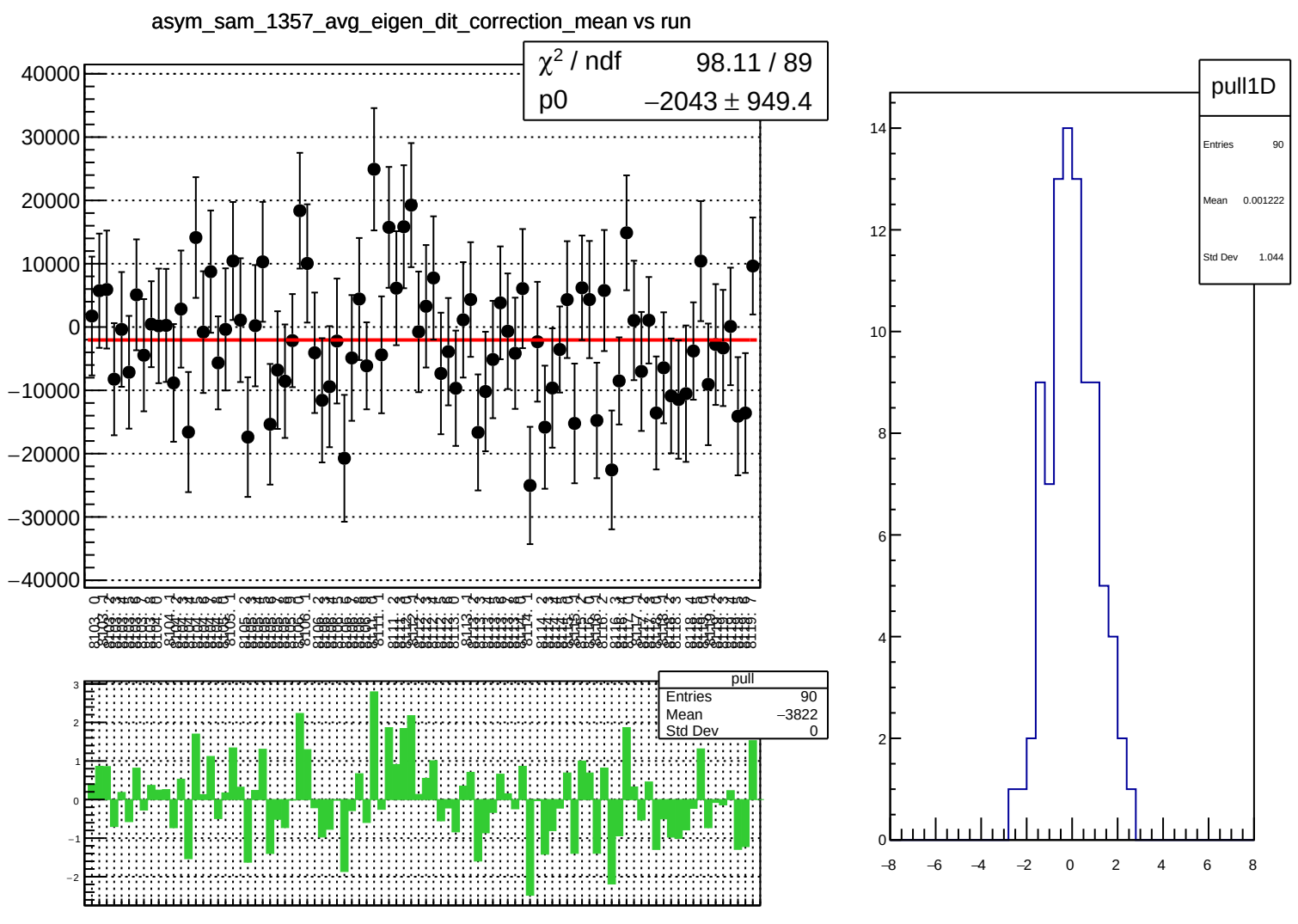

pull1D
Entries 90
Mean 0.001222
Std Dev 1.044

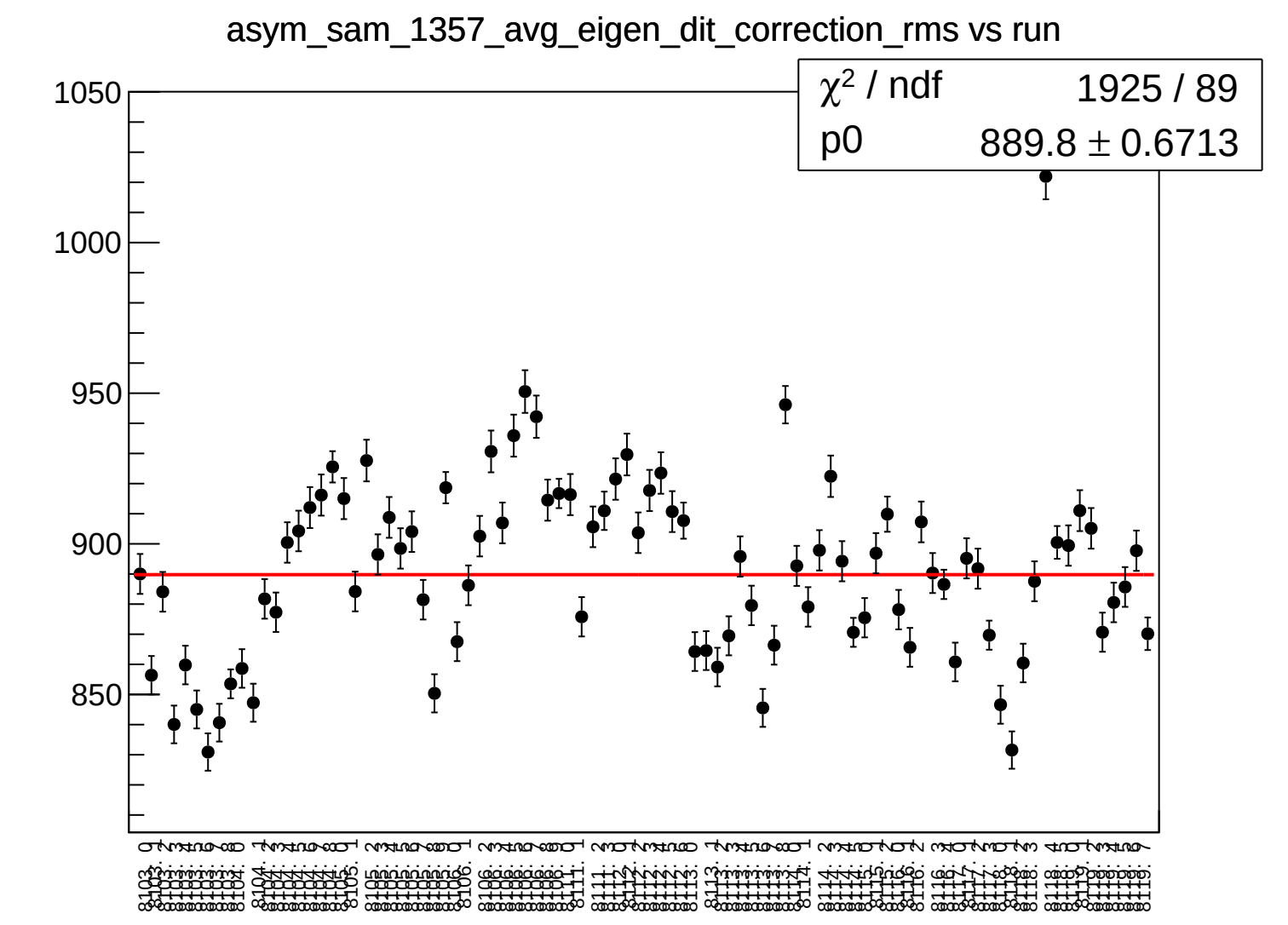

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1925 / 89
p0 889.8 ± 0.6713
1050
1000
950
900
850

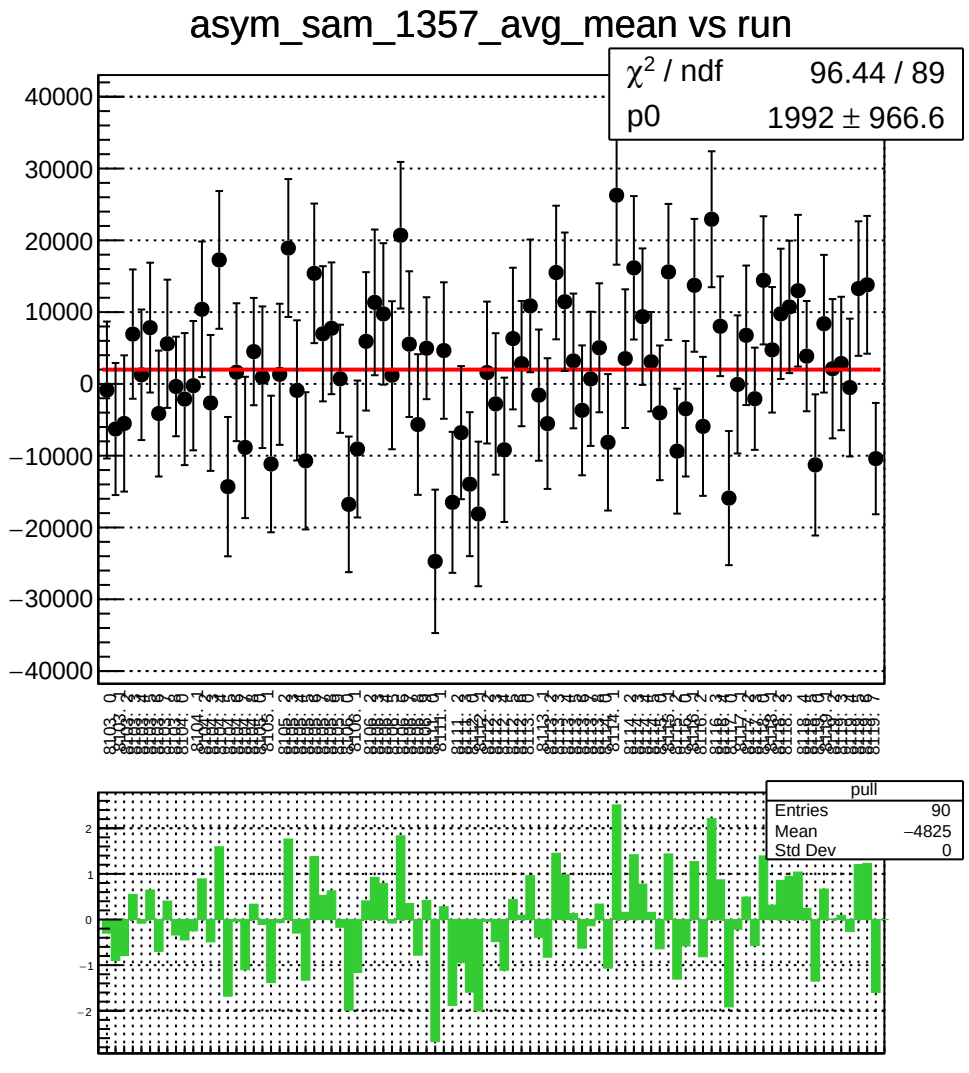

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 87.92 / 89
p0 −122.7 ± 107.9
pull
Entries 90
Mean −115.8
Std Dev 0

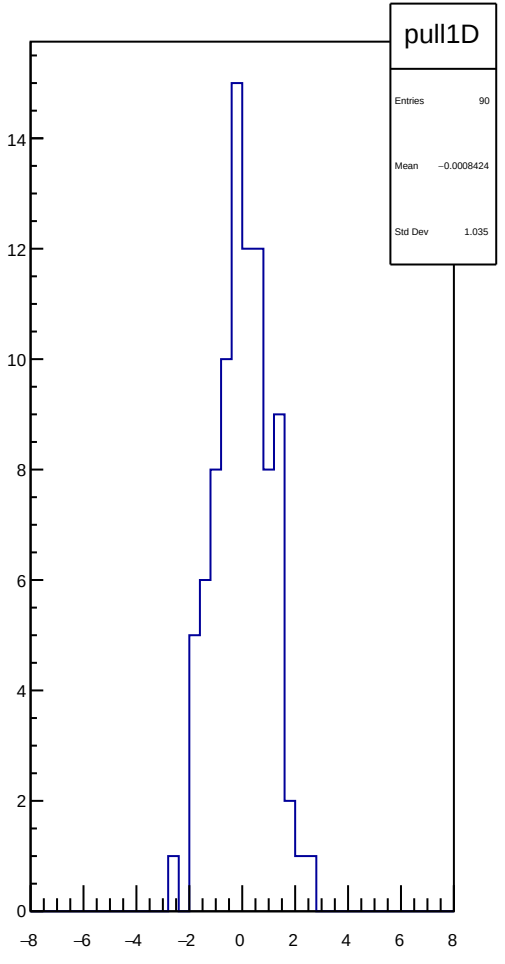

pull1D
Entries 90
Mean 0.03462
Std Dev 0.9878

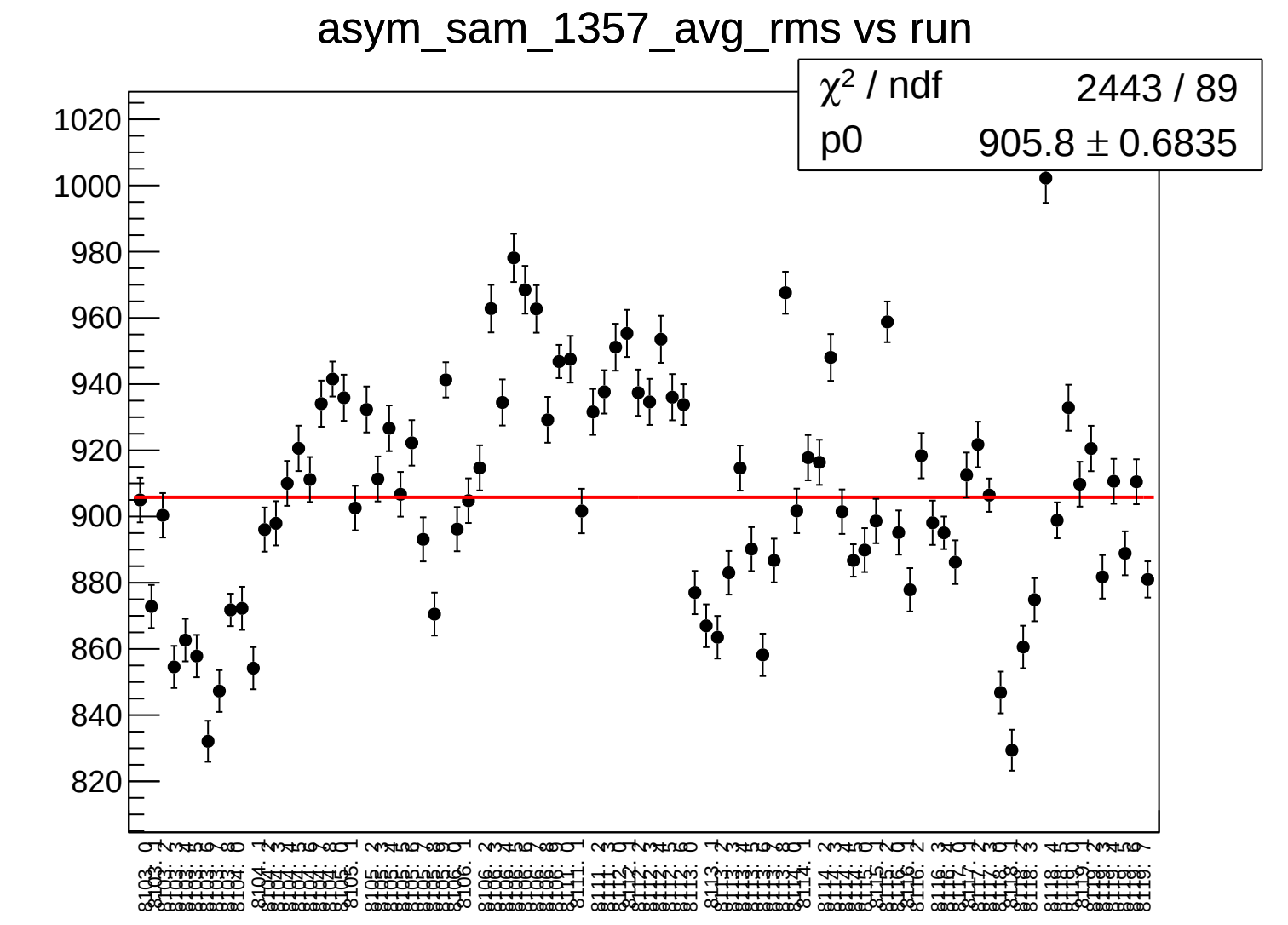

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.374e+04 / 89
p0 100.8 ± 0.07633
140
130
120
110
100
90
80

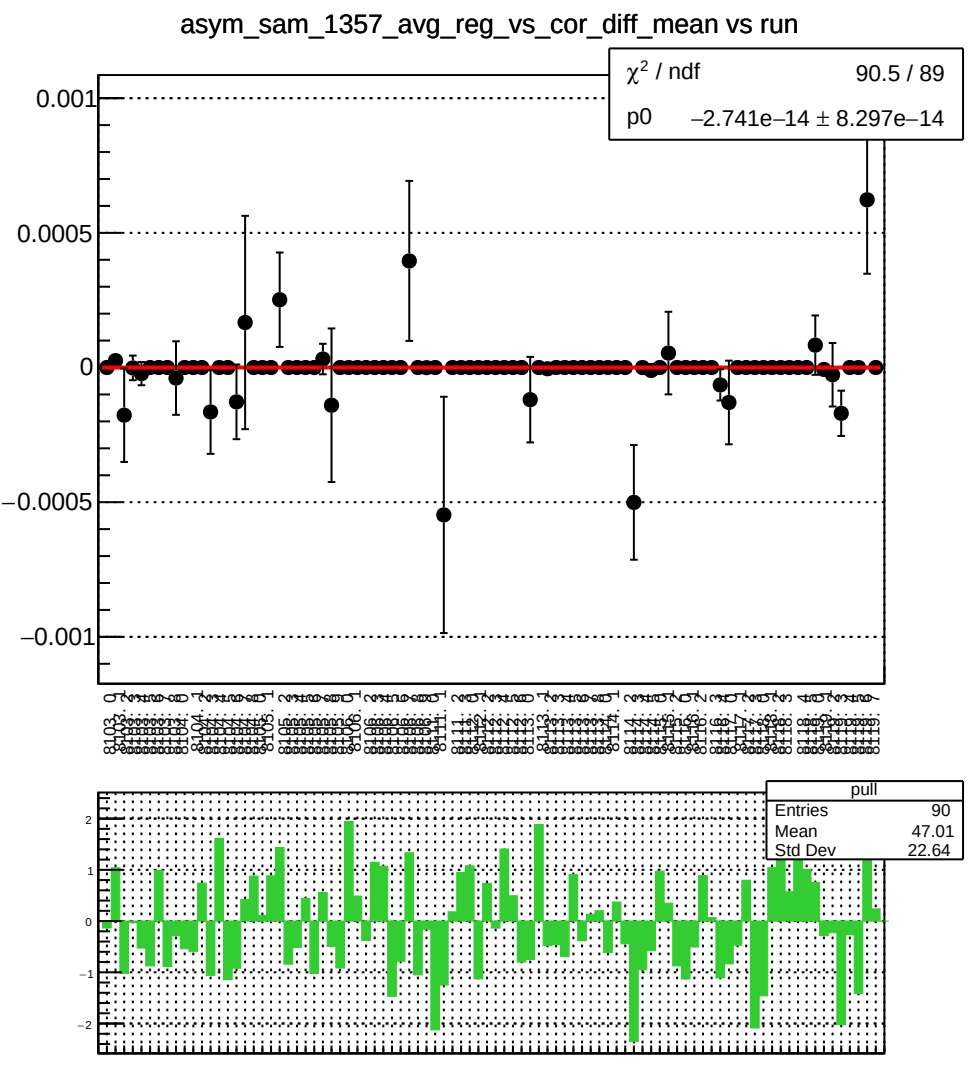

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.11 / 89
p0 −2043 ± 949.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 90
Mean −3822
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.001222
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

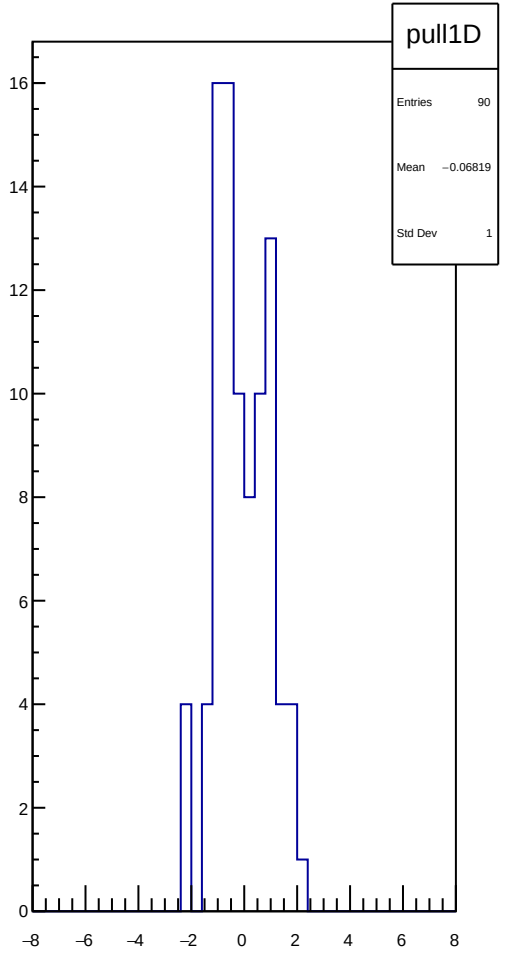

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1925 / 89
p0 889.8 ± 0.6713
1050
1000
950
900
850

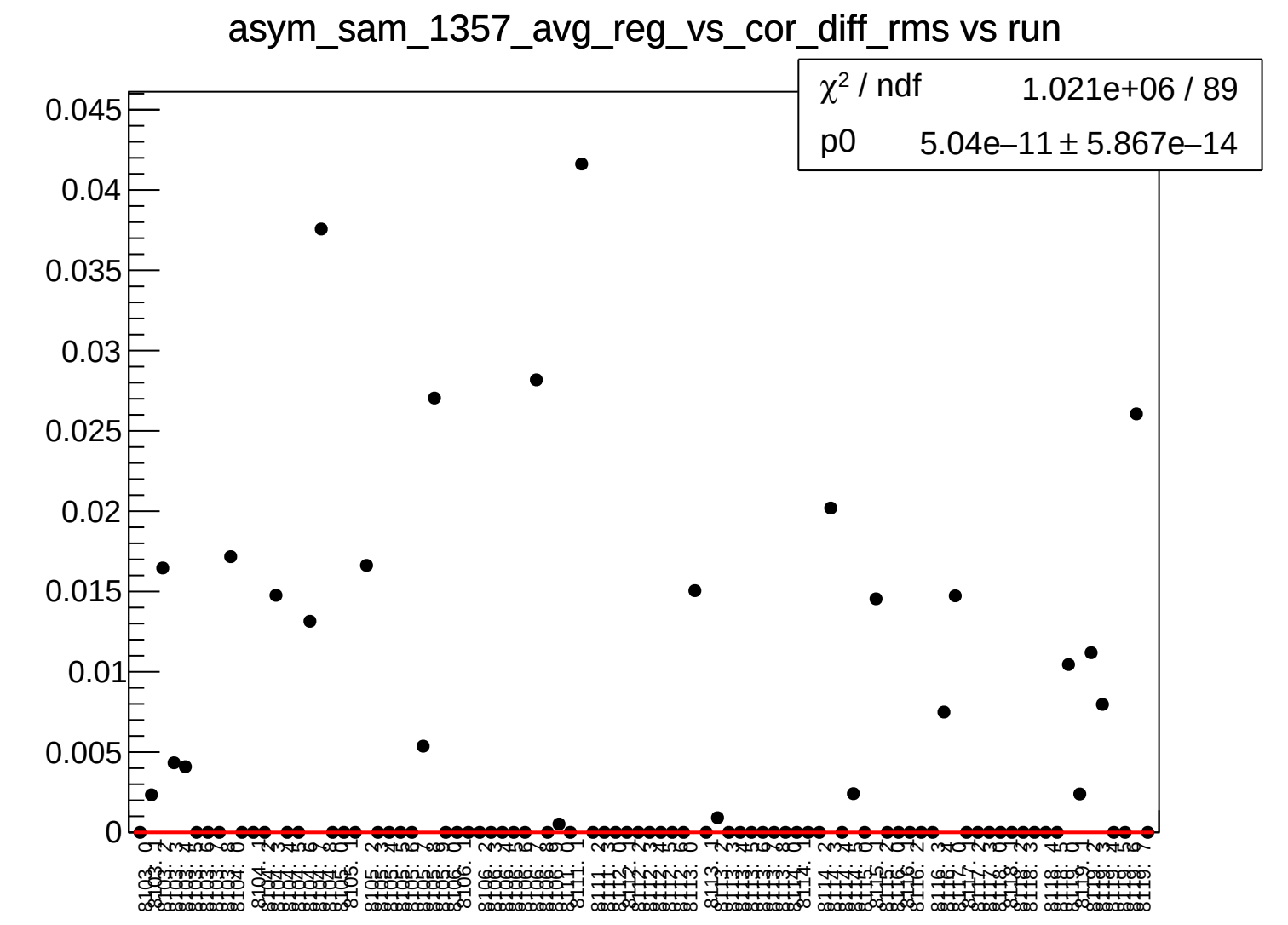

asym_sam_1357_avg_mean vs run
χ² / ndf 96.44 / 89
p0 1992 ± 966.6
pull
Entries 90
Mean −4825
Std Dev 0

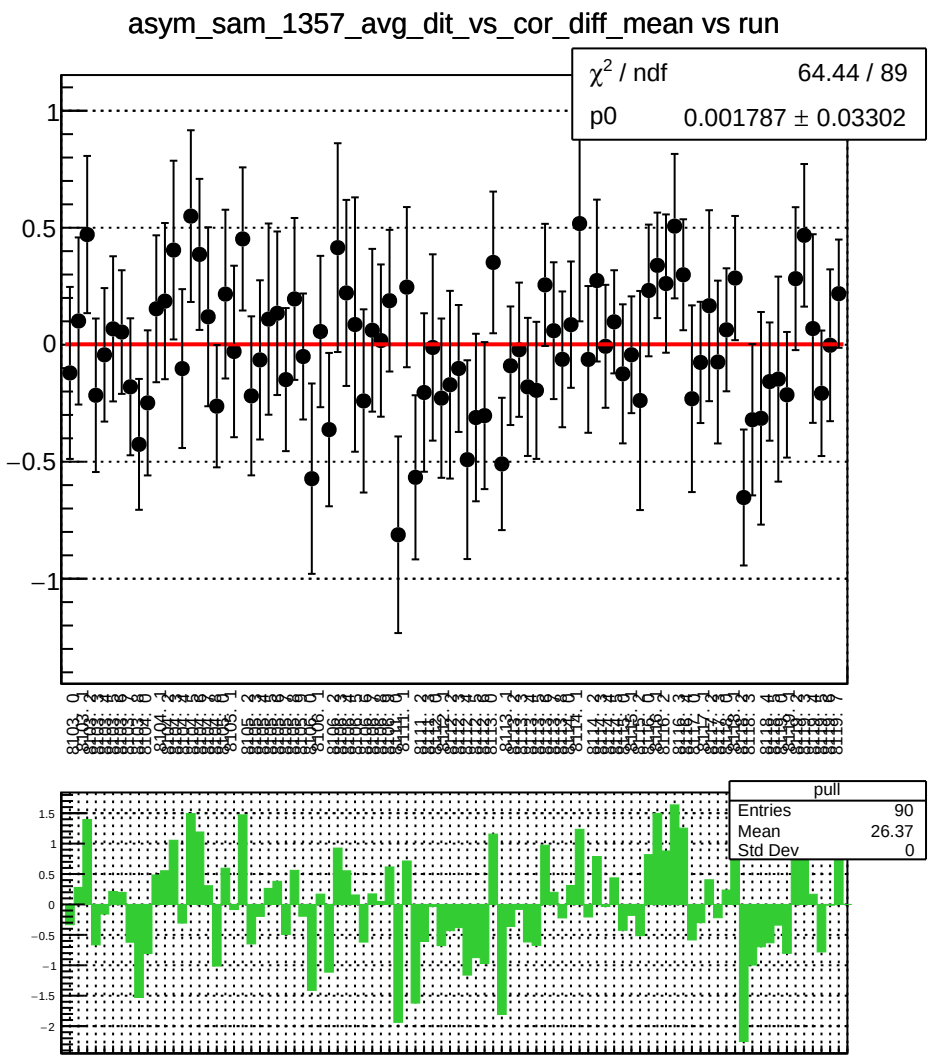

pull1D
Entries 90
Mean −0.0008424
Std Dev 1.035

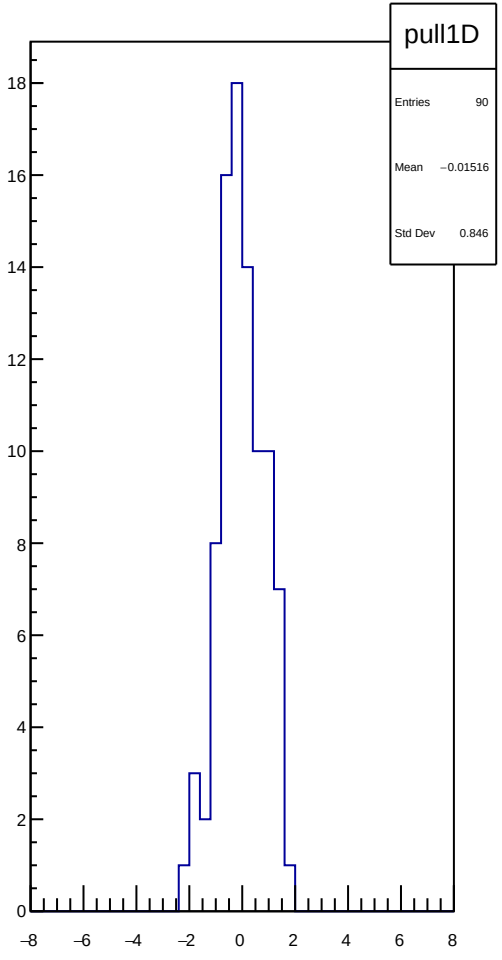

asym_sam_1357_avg_rms vs run
χ² / ndf 2443 / 89
p0 905.8 ± 0.6835
1020
1000
980
960
940
920
900
880
860
840
820

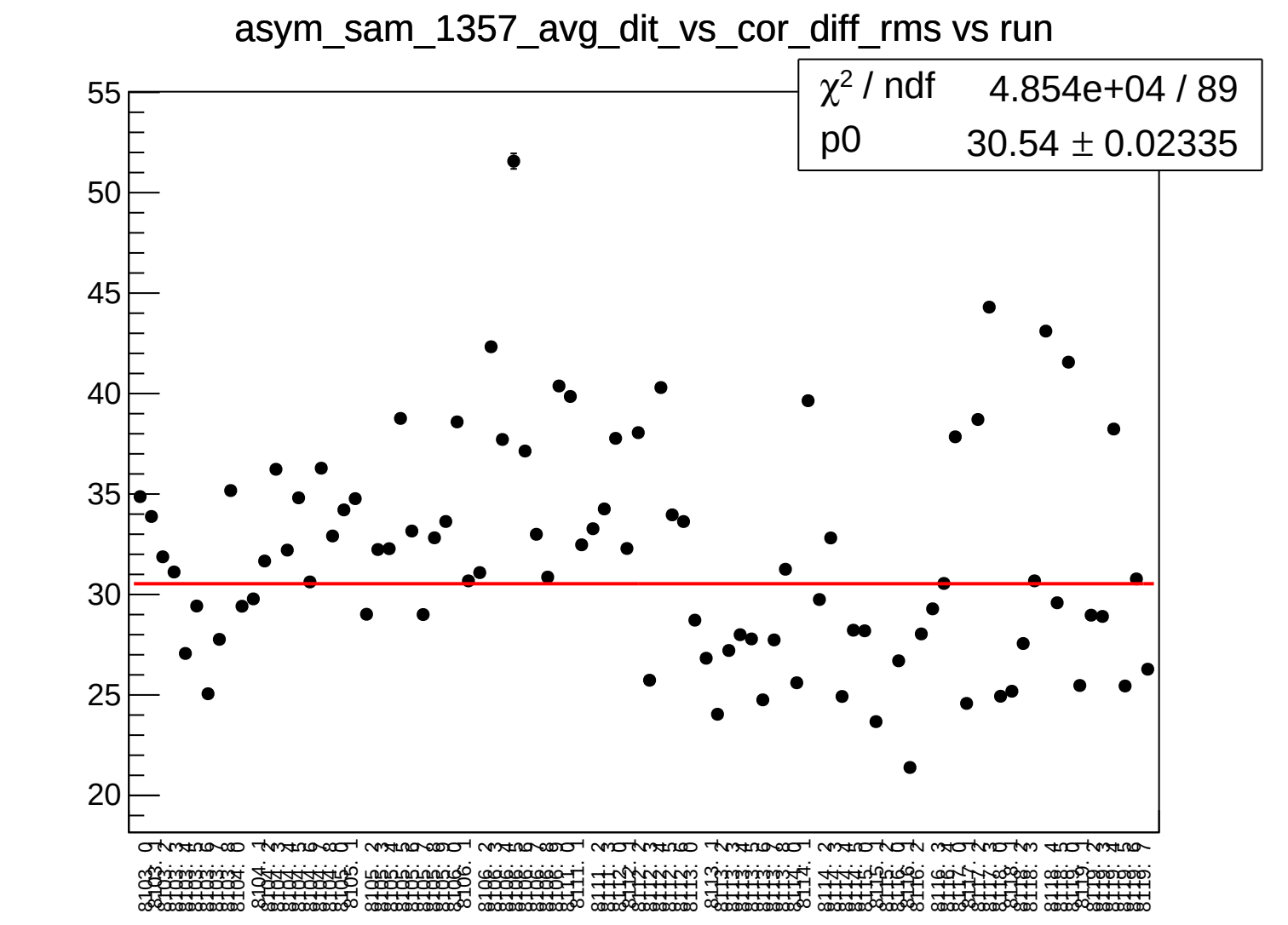

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.5 / 89
p0 −2.741e−14 ± 8.297e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 90
Mean 47.01
Std Dev 22.64
2
1
0
−1
−2

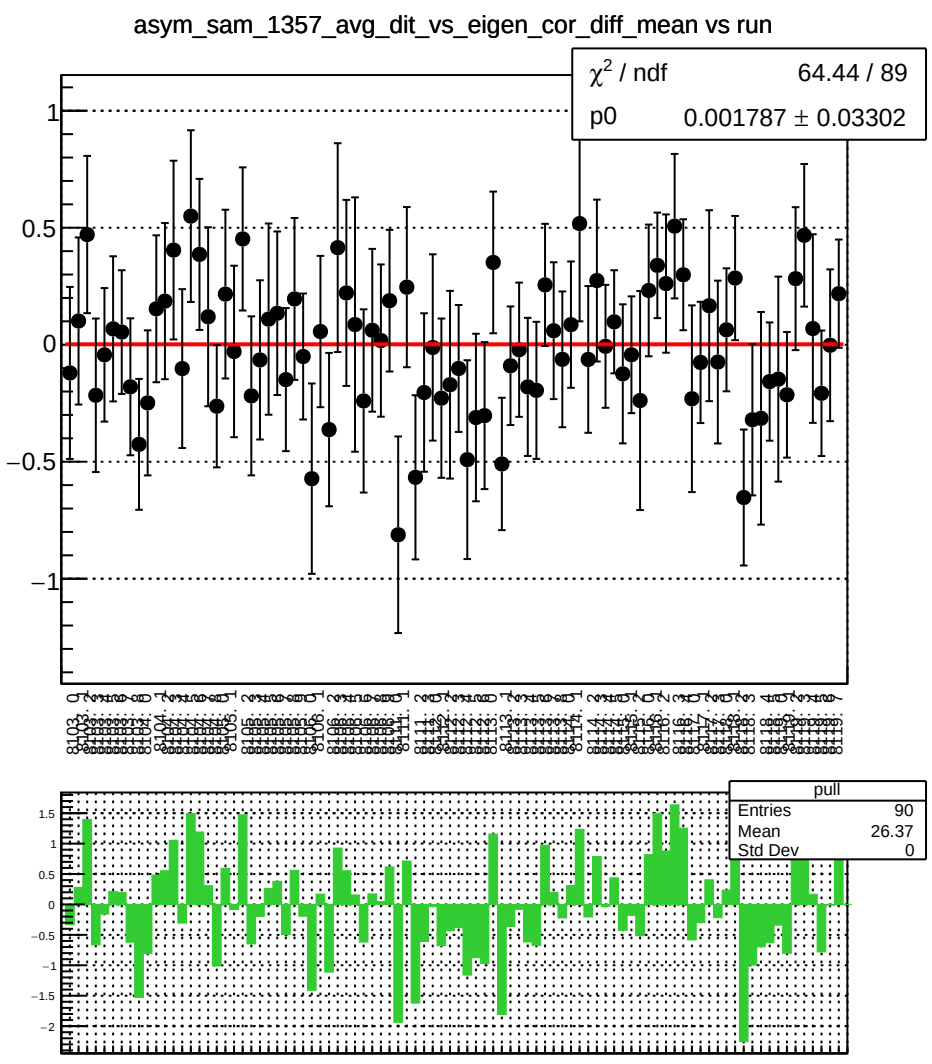

pull1D
Entries 90
Mean −0.06819
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

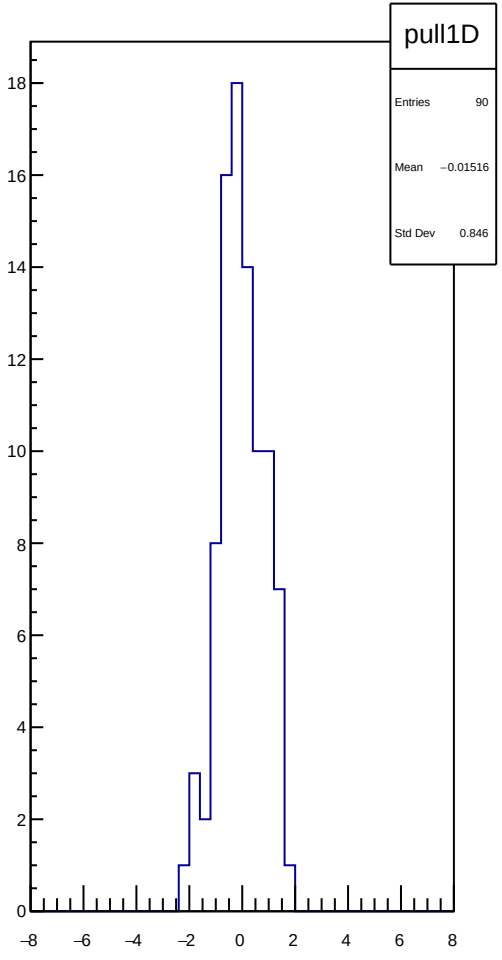

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.021e+06 / 89
p0 5.04e−11 ± 5.867e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

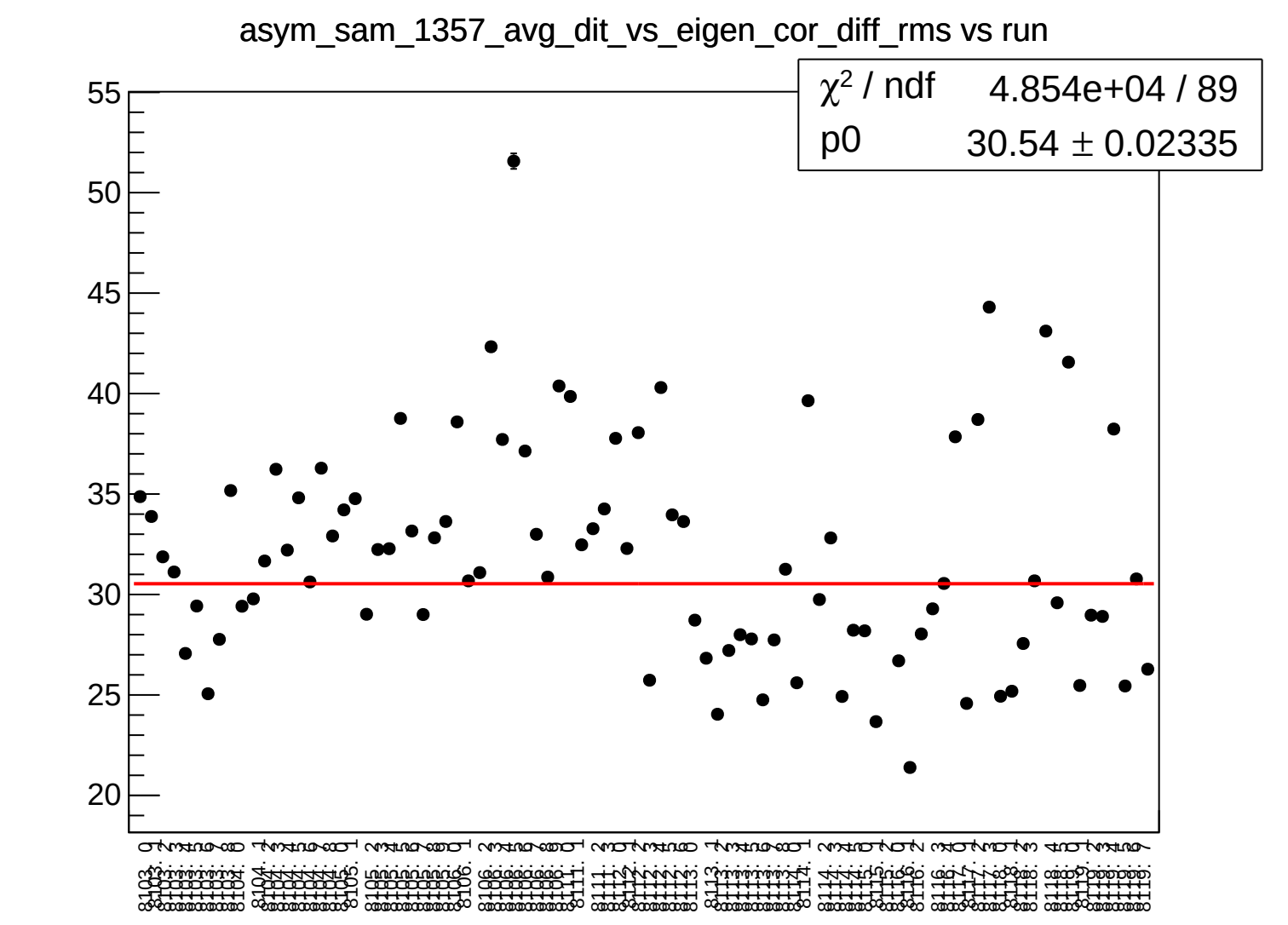

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 64.44 / 89
p0 0.001787 ± 0.03302
pull
Entries 90
Mean 26.37
Std Dev 0

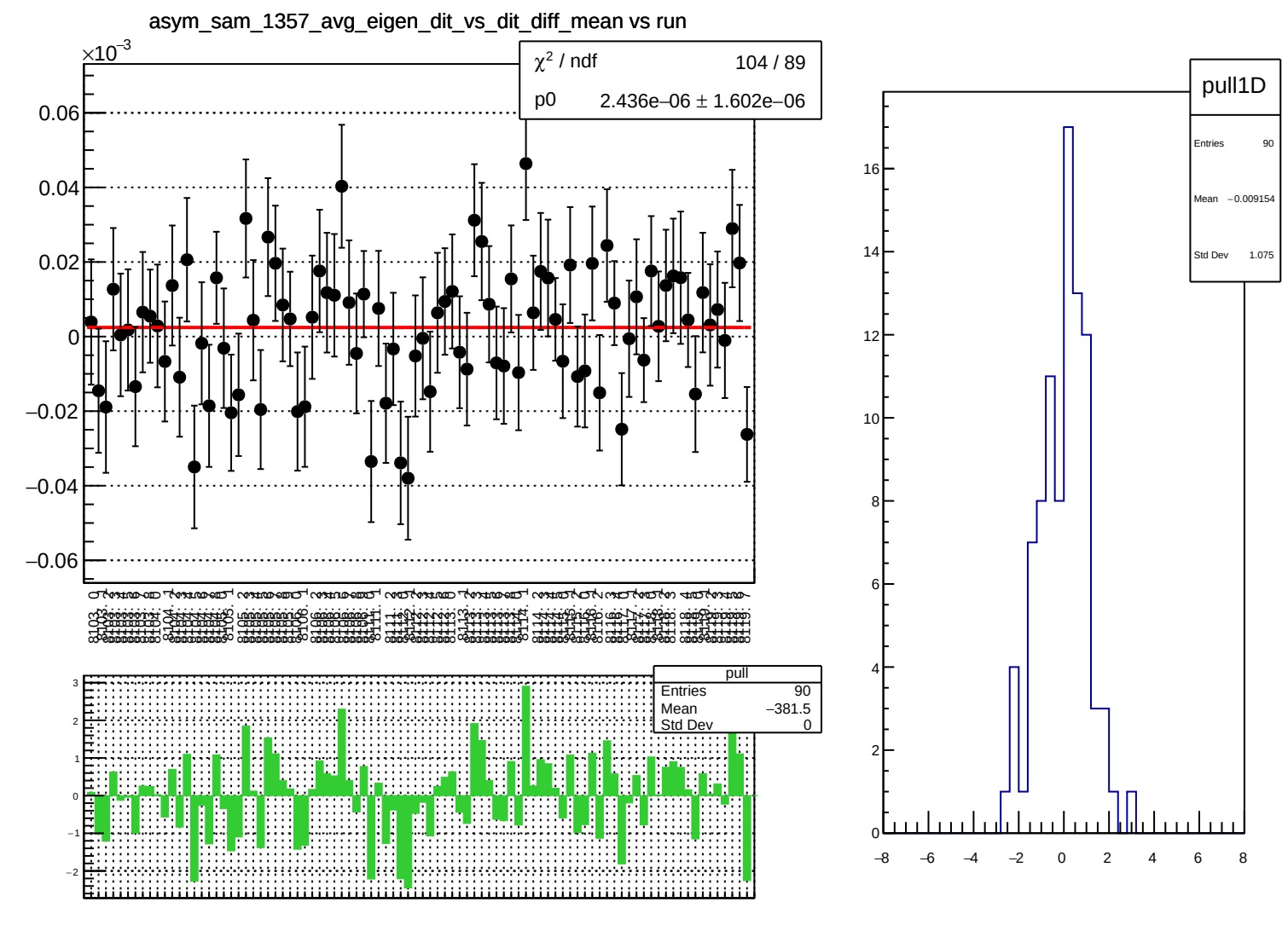

pull1D
Entries 90
Mean −0.01516
Std Dev 0.846

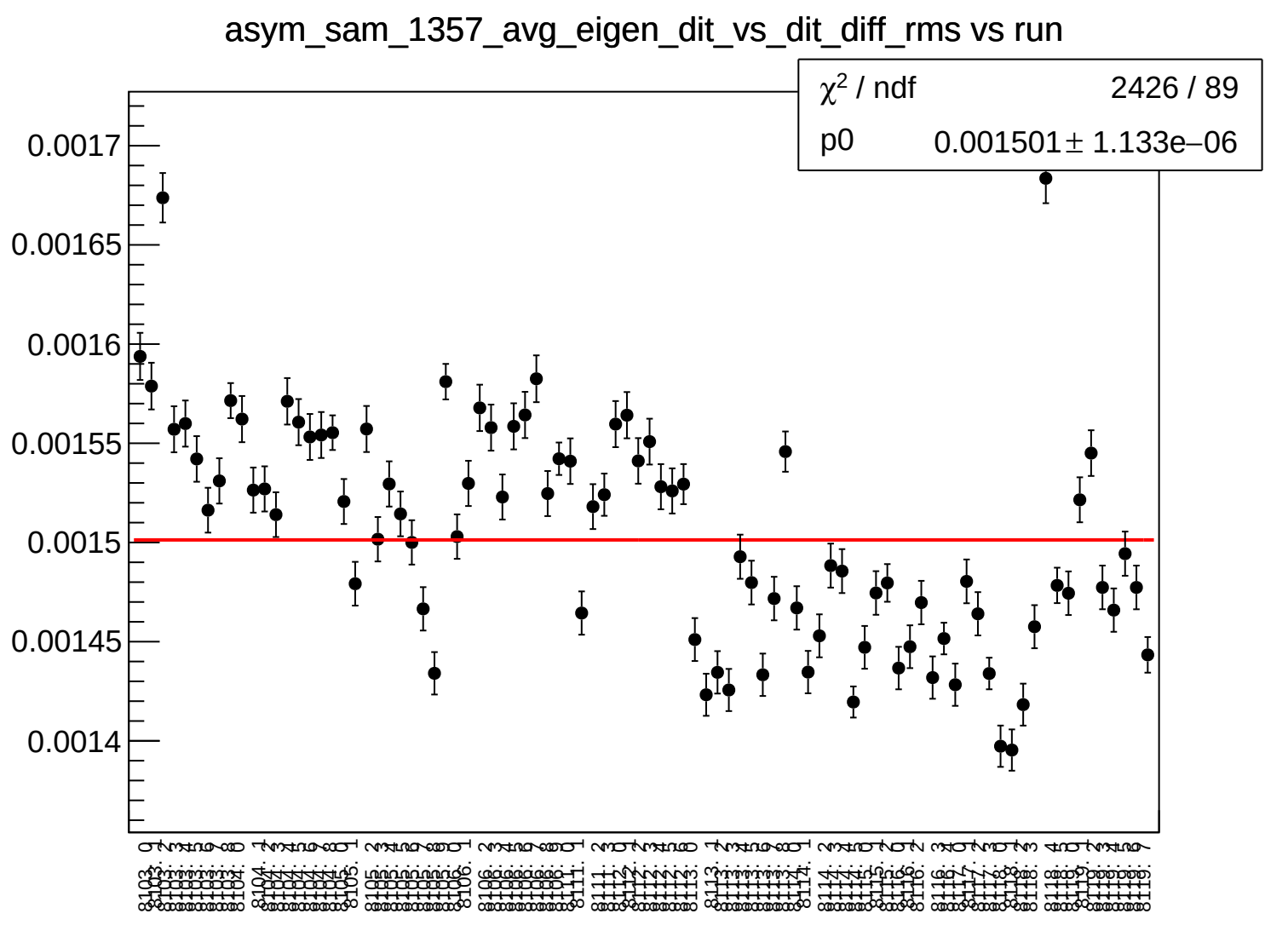

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.854e+04 / 89
p0 30.54 ± 0.02335
55
50
45
40
35
30
25
20

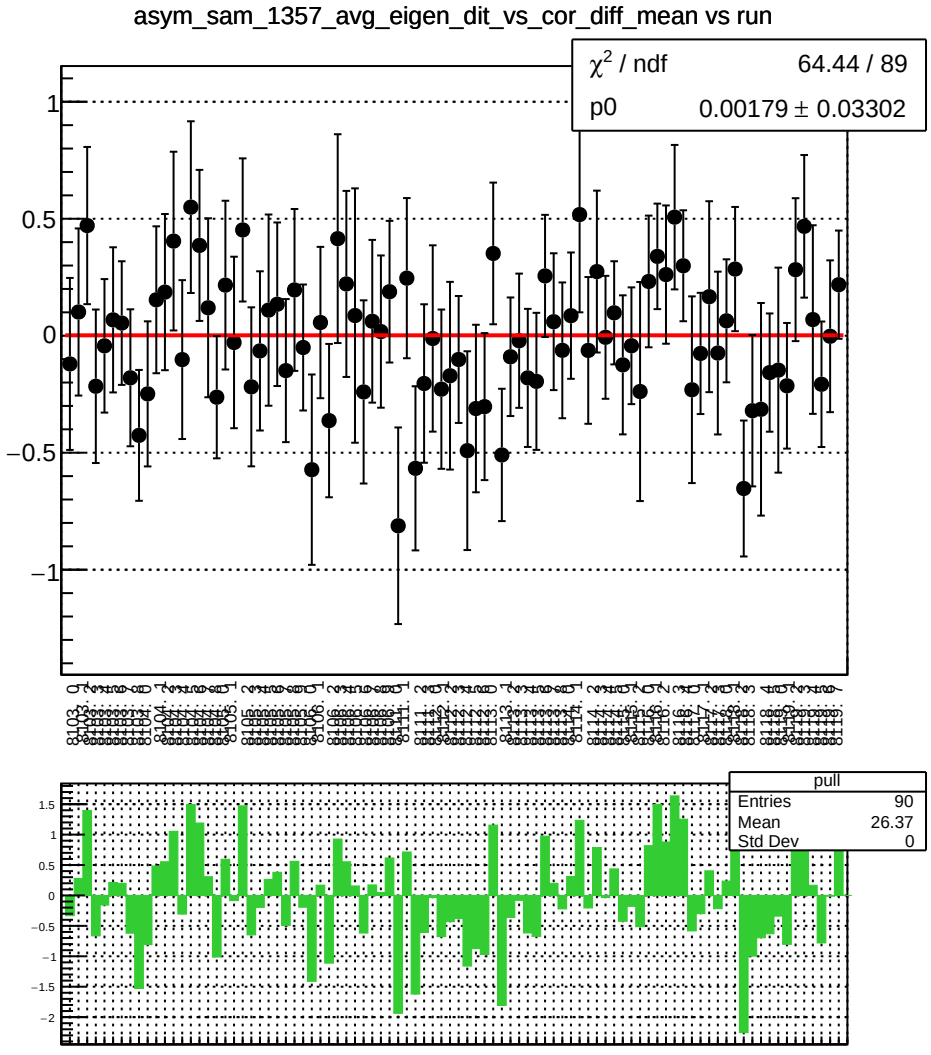

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.44 / 89
p0 0.001787 ± 0.03302
pull
Entries 90
Mean 26.37
Std Dev 0

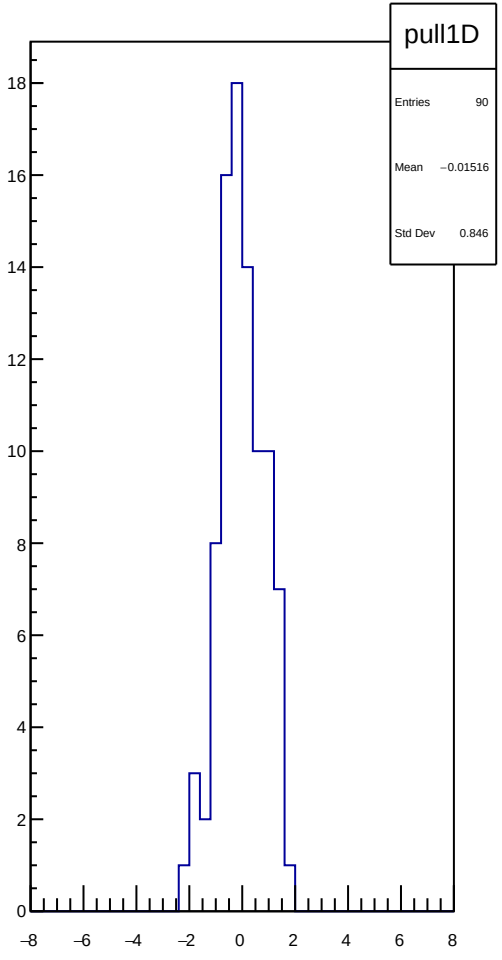

pull1D
Entries 90
Mean −0.01516
Std Dev 0.846

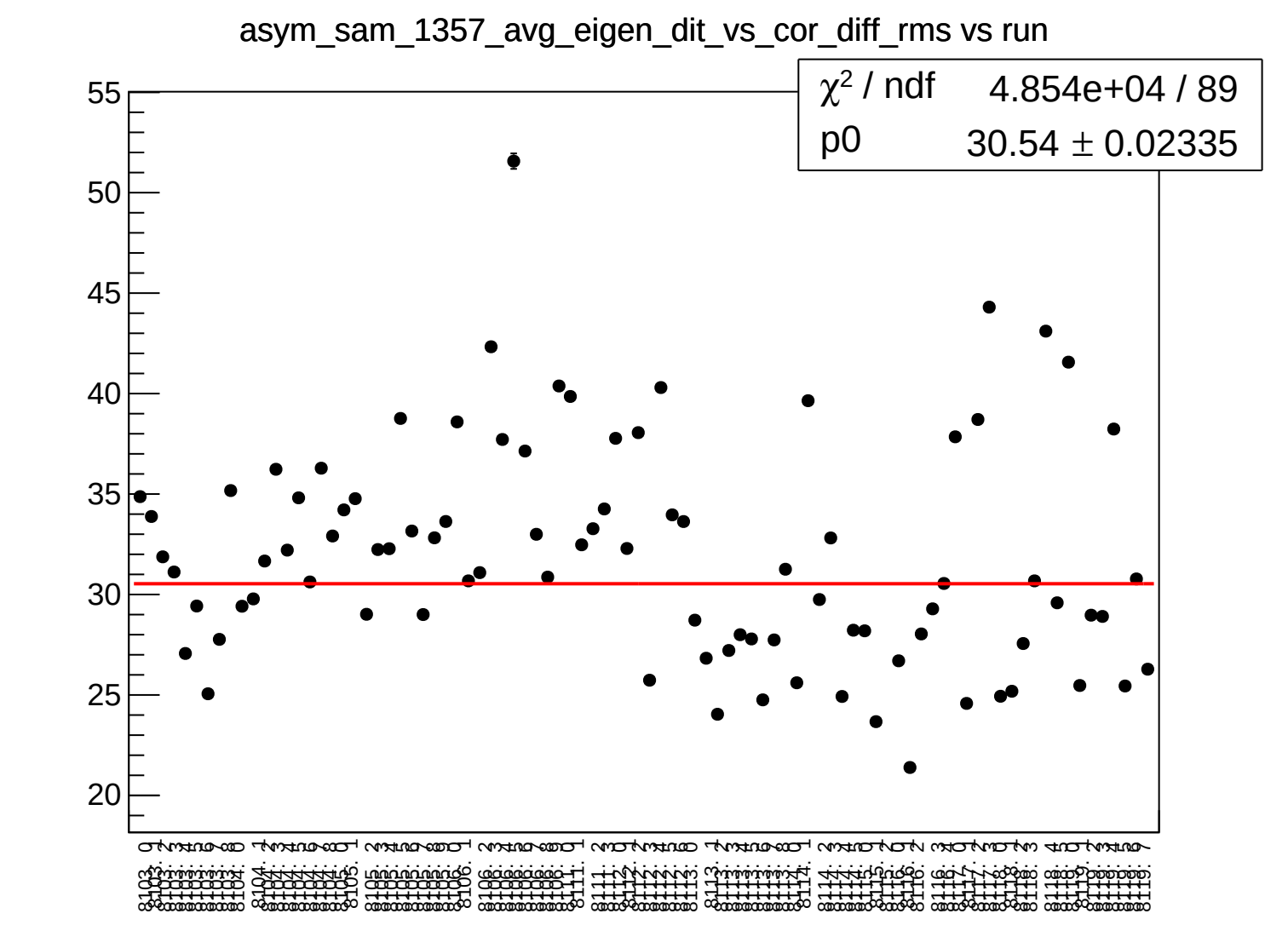

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.854e+04 / 89
p0 30.54 ± 0.02335
55
50
45
40
35
30
25
20

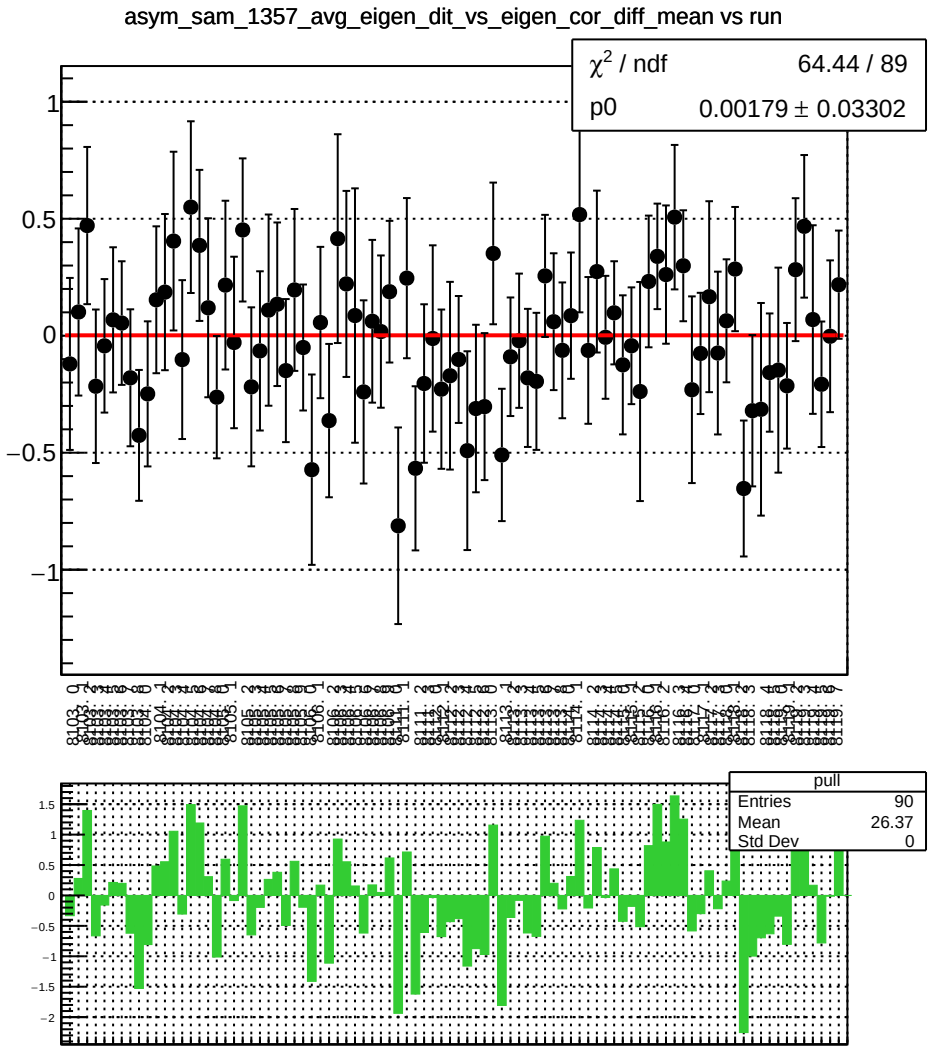

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104 / 89
p0 2.436e−06 ± 1.602e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean −381.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.009154
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

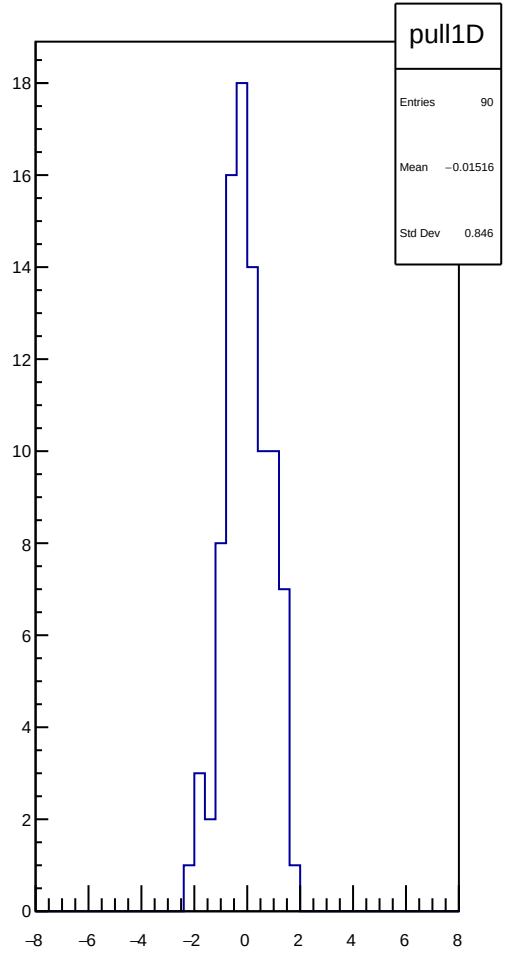

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2426 / 89
p0 0.001501 ± 1.133e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014

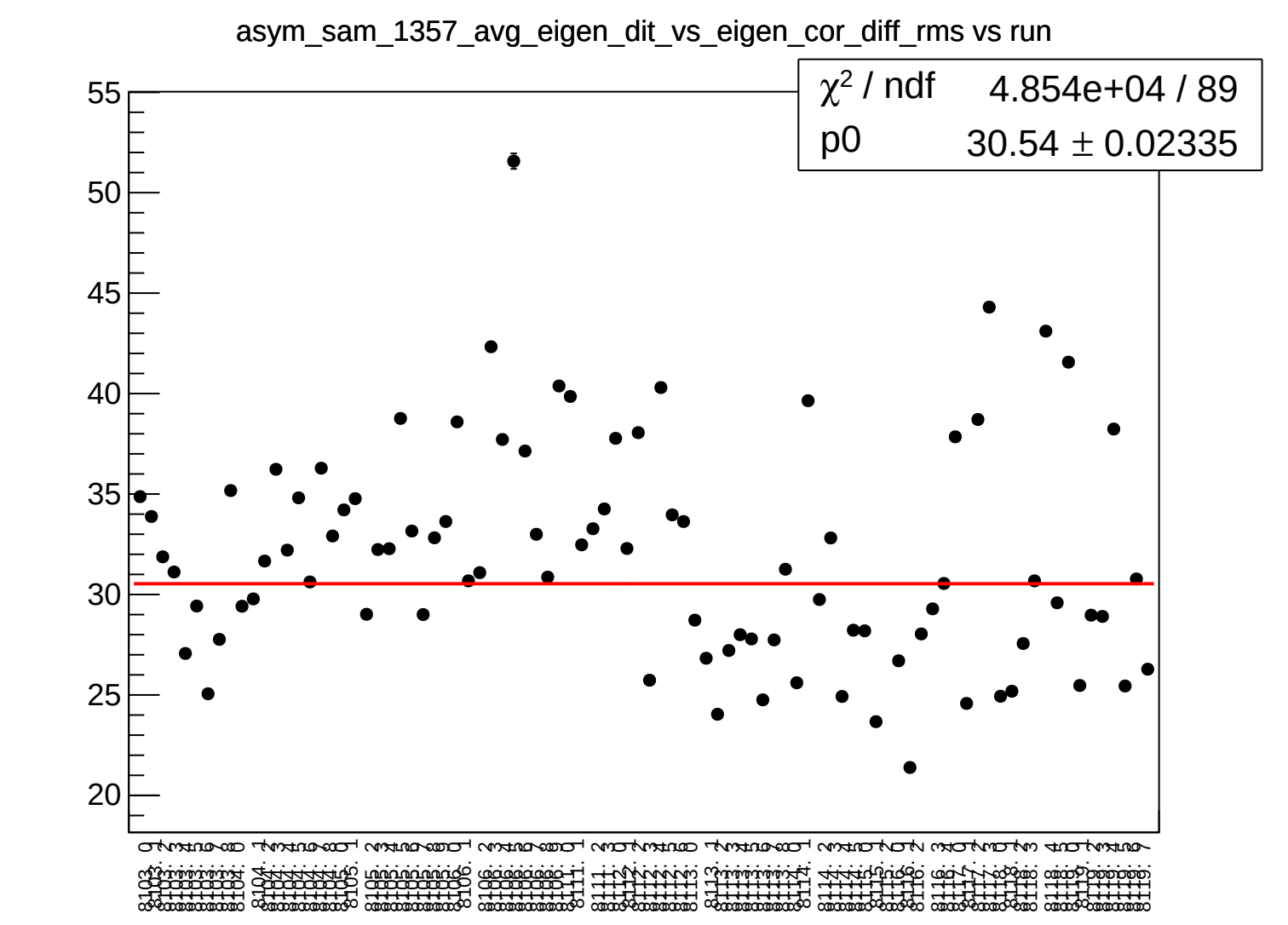

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.44 / 89
p0 0.00179 ± 0.03302
pull
Entries 90
Mean 26.37
Std Dev 0

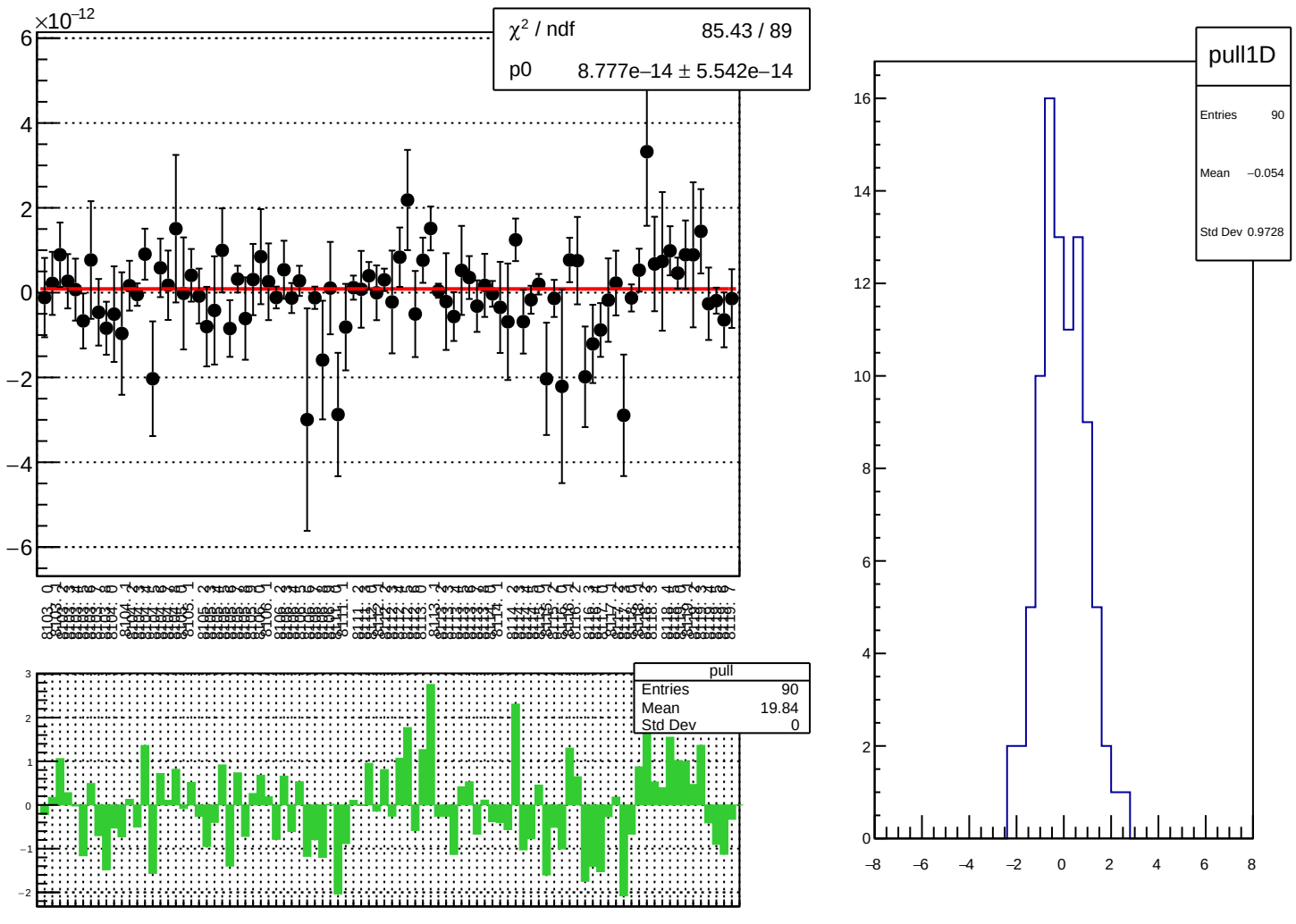

pull1D
Entries 90
Mean −0.01516
Std Dev 0.846

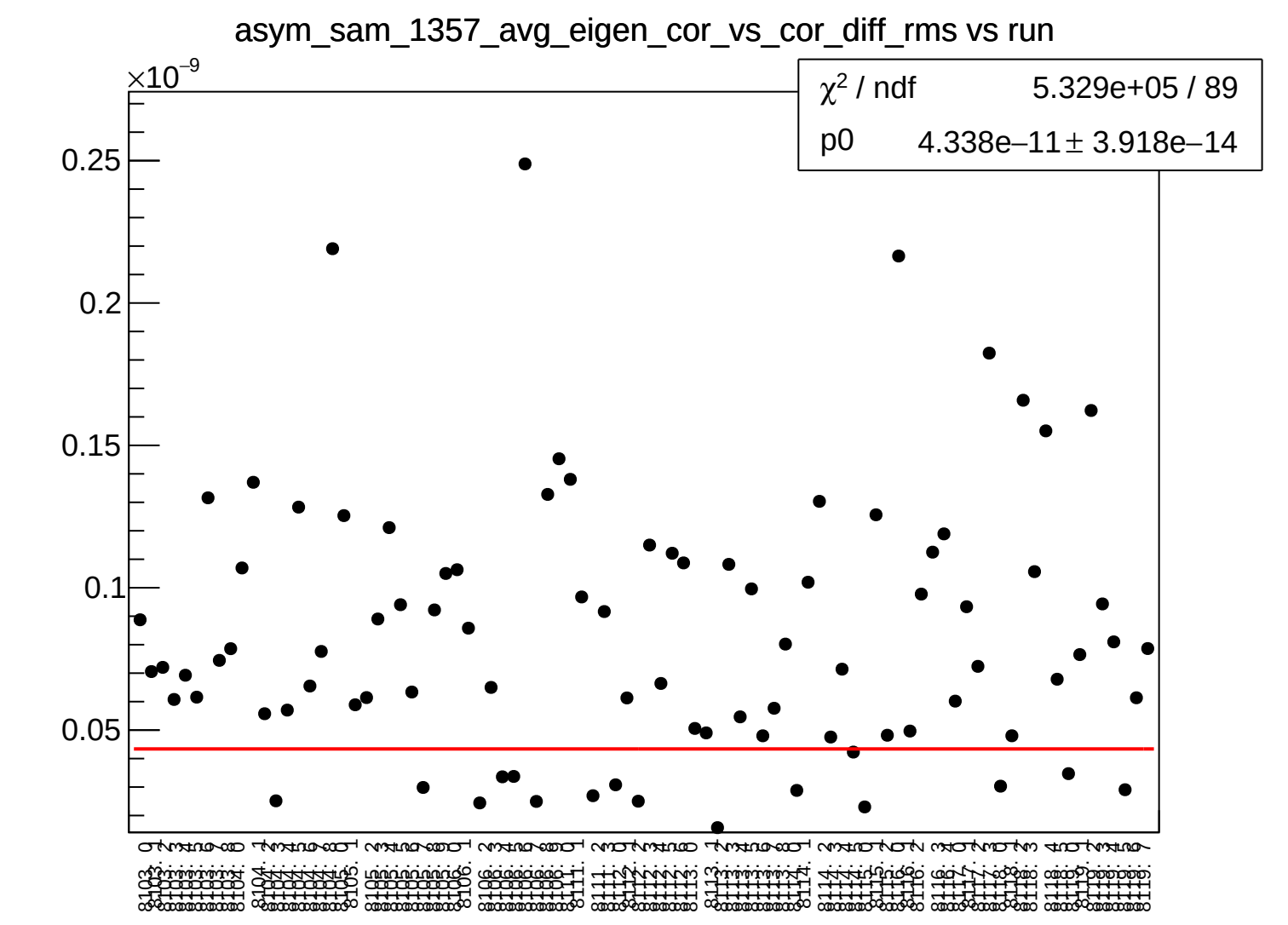

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.854e+04 / 89
p0 30.54 ± 0.02335
55
50
45
40
35
30
25
20

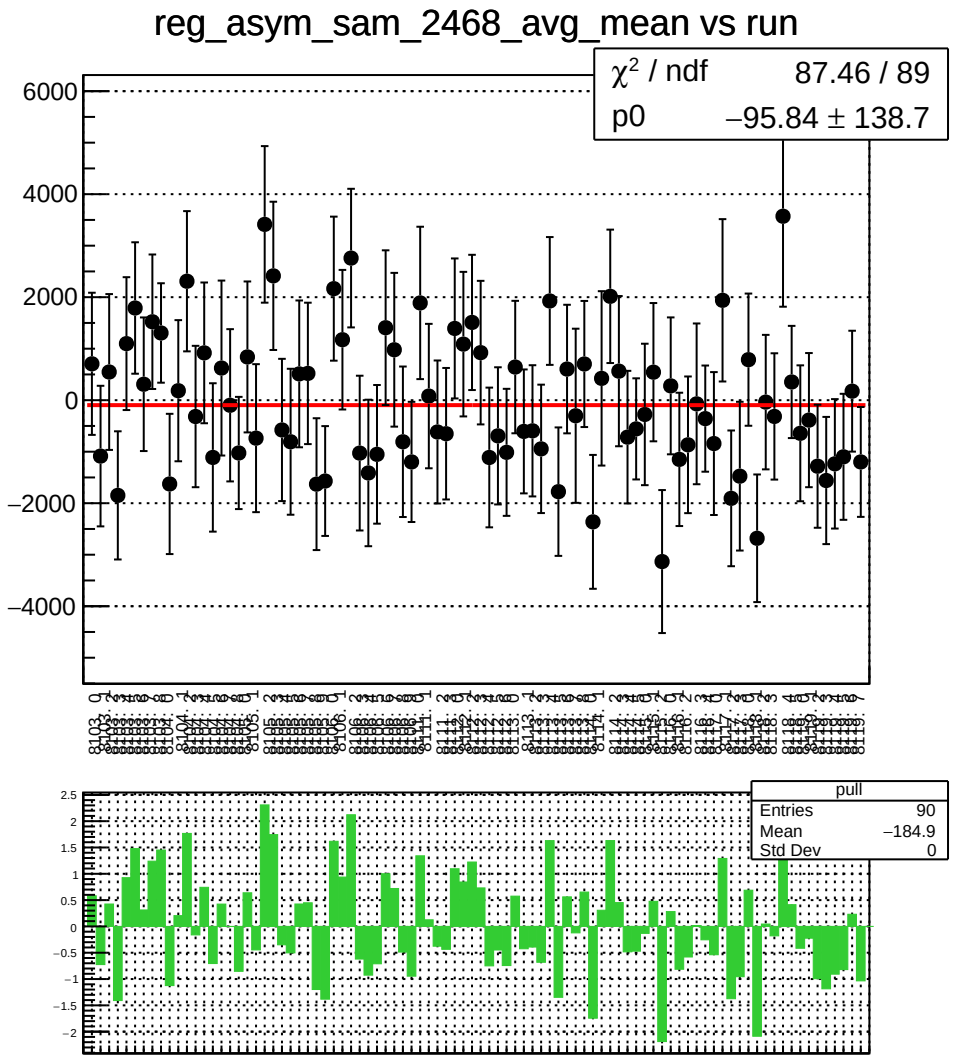

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.44 / 89
p0 0.00179 ± 0.03302
pull
Entries 90
Mean 26.37
Std Dev 0

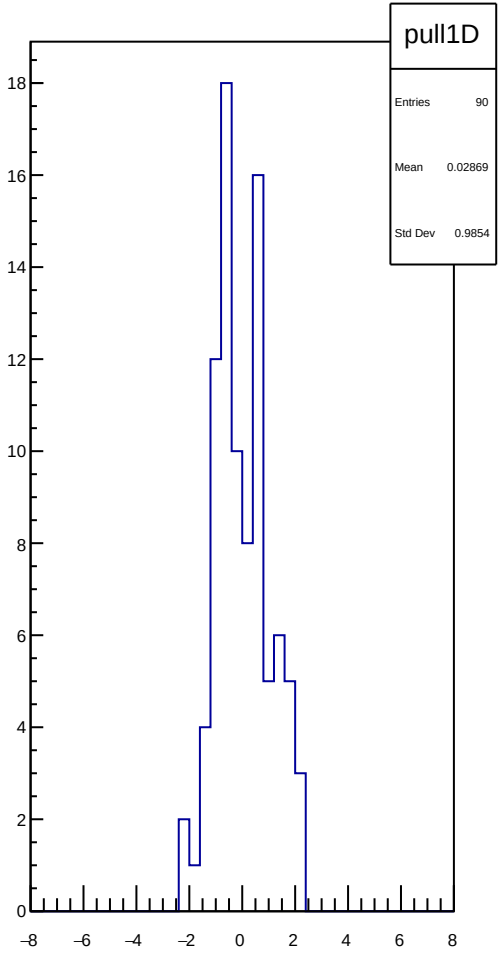

pull1D
Entries 90
Mean −0.01516
Std Dev 0.846

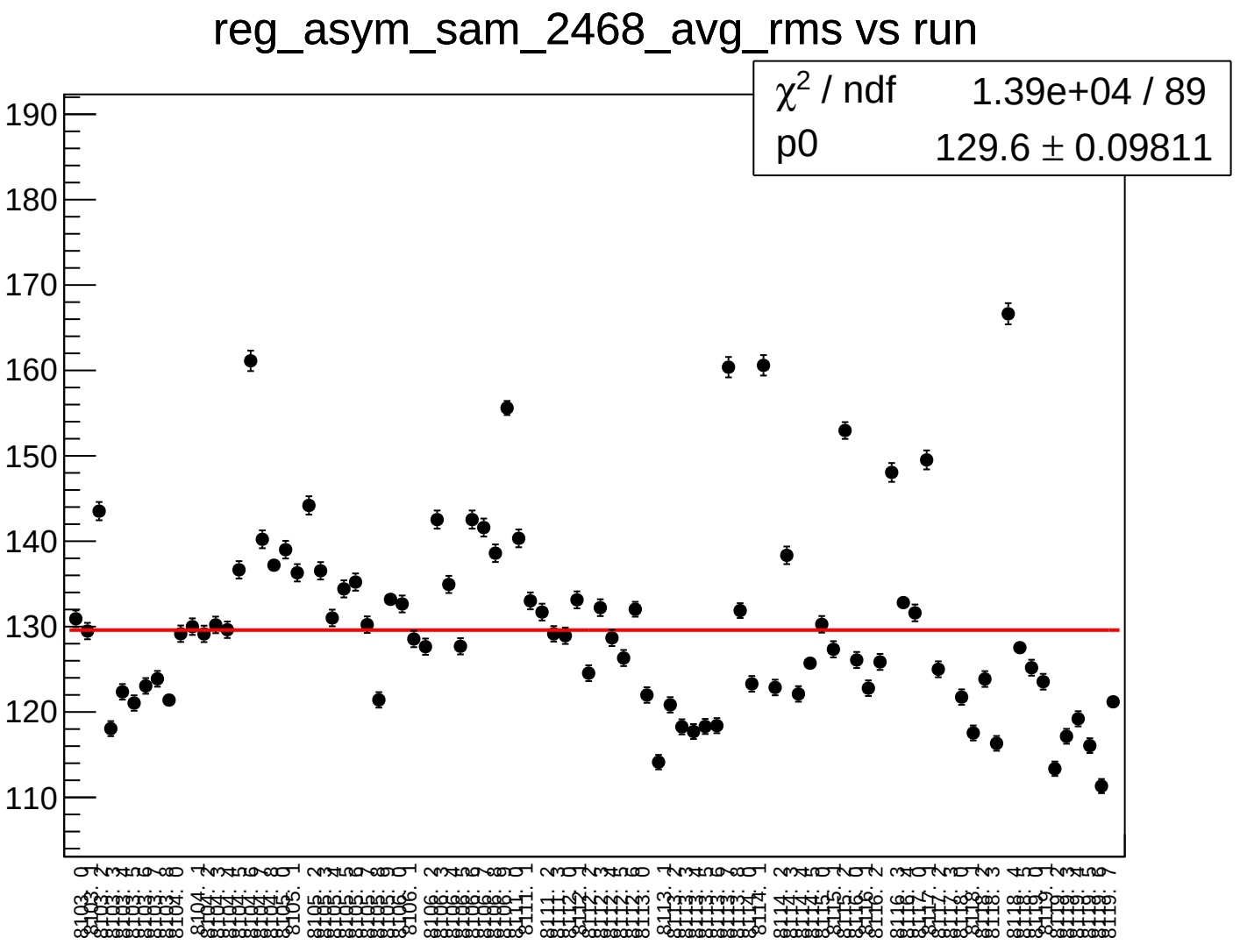

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.854e+04 / 89
p0 30.54 ± 0.02335
55
50
45
40
35
30
25
20

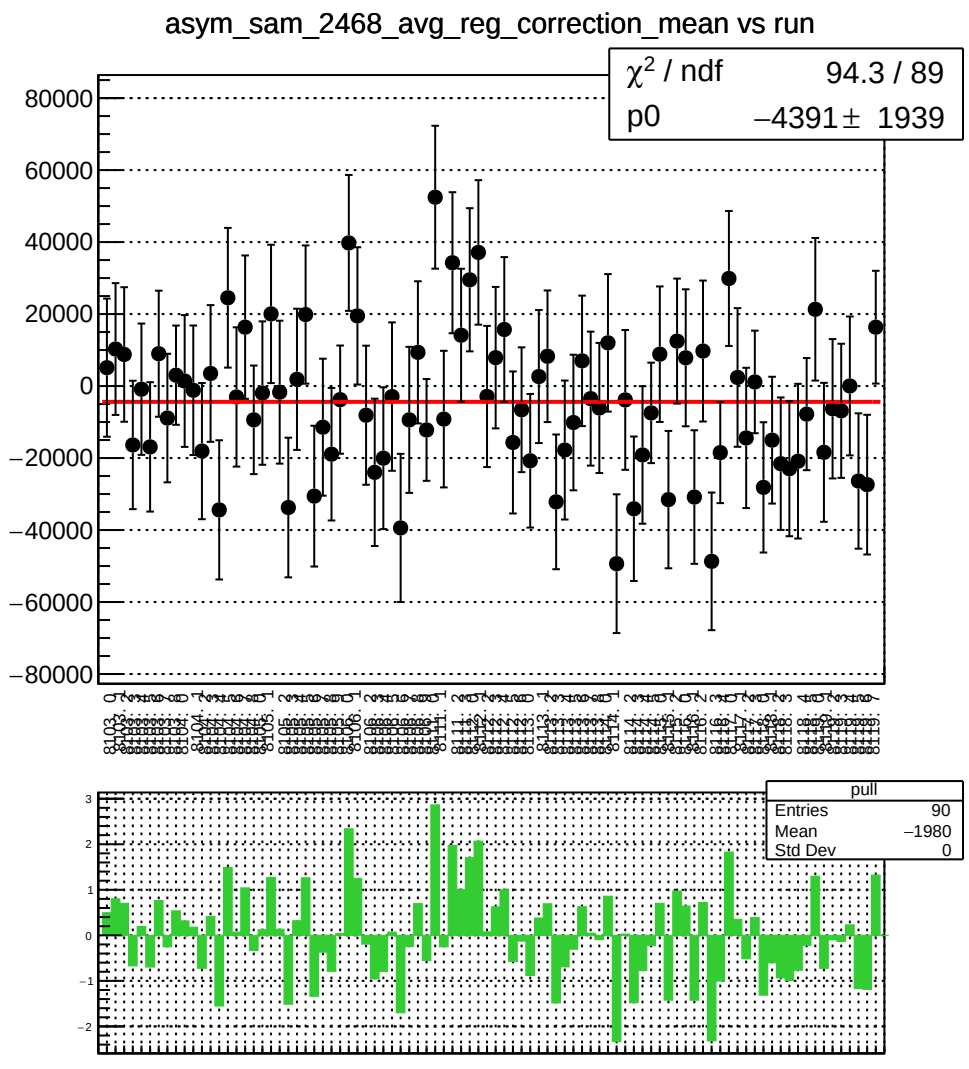

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.43 / 89
p0 8.777e−14 ± 5.542e−14
pull
Entries 90
Mean 19.84
Std Dev 0
pull1D
Entries 90
Mean −0.054
Std Dev 0.9728

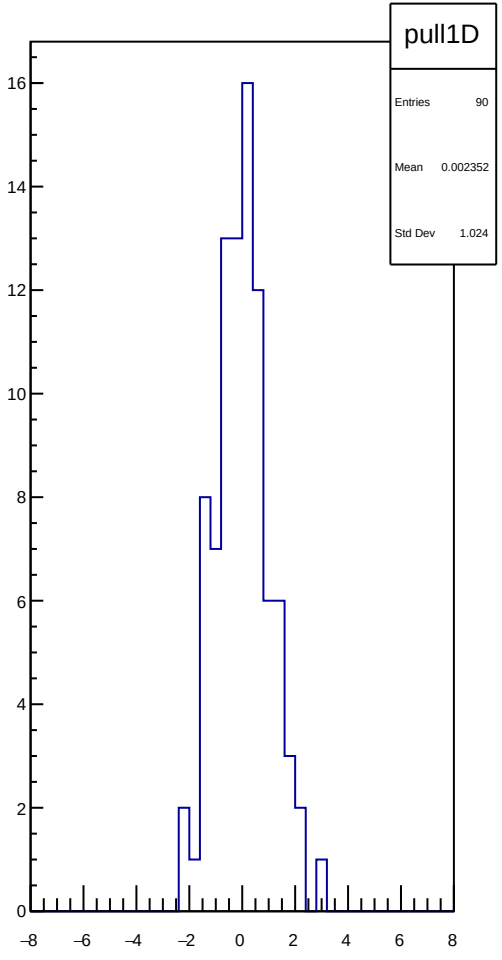

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.329e+05 / 89
p0 4.338e−11 ± 3.918e−14
0.25
0.2
0.15
0.1
0.05

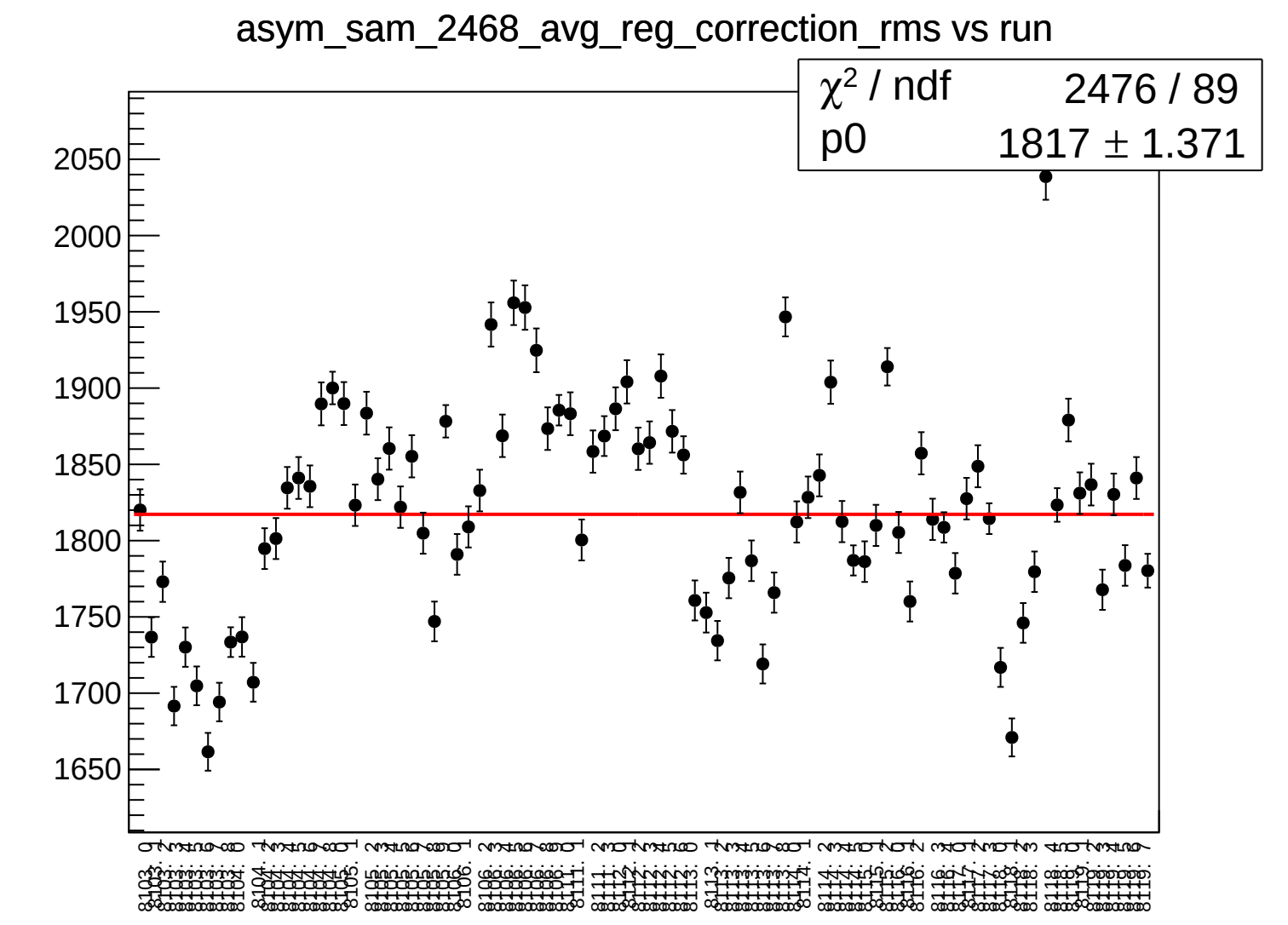

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 87.46 / 89
p0 −95.84 ± 138.7
pull
Entries 90
Mean −184.9
Std Dev 0

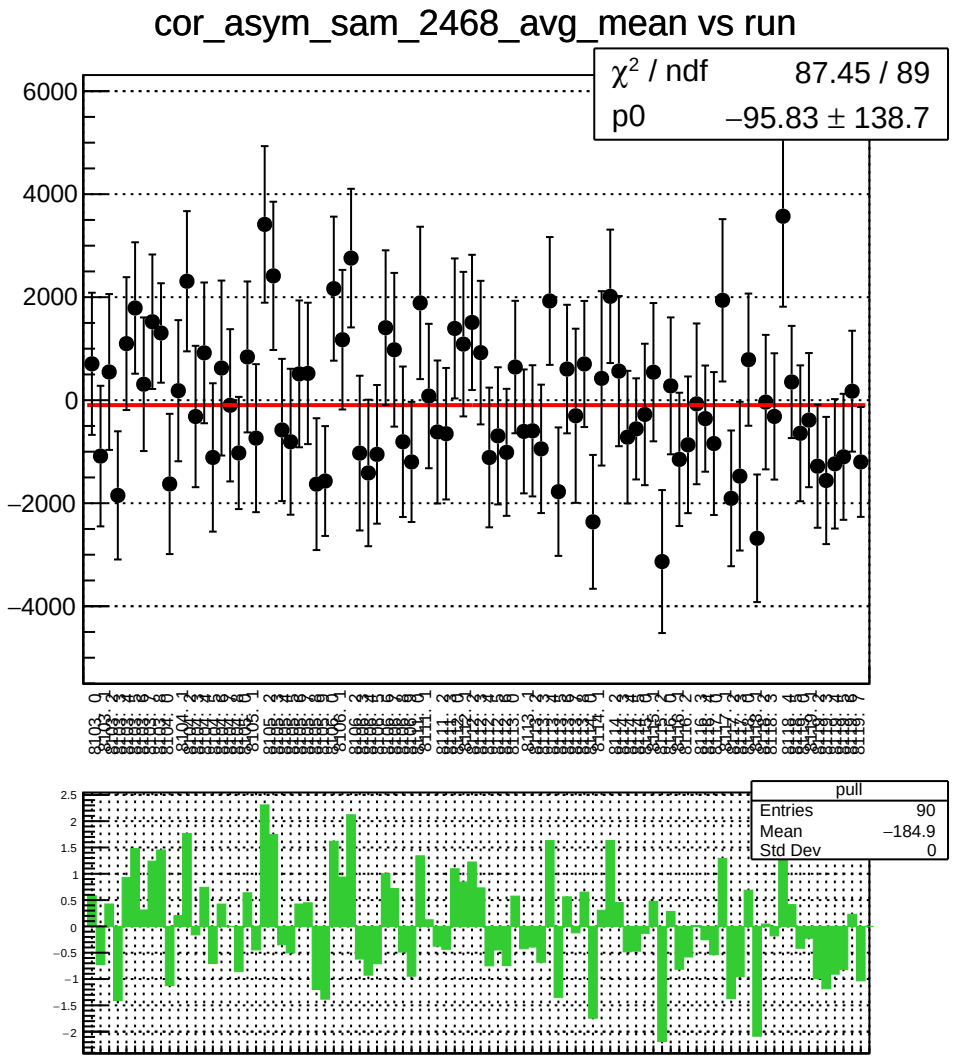

pull1D
Entries 90
Mean 0.02869
Std Dev 0.9854

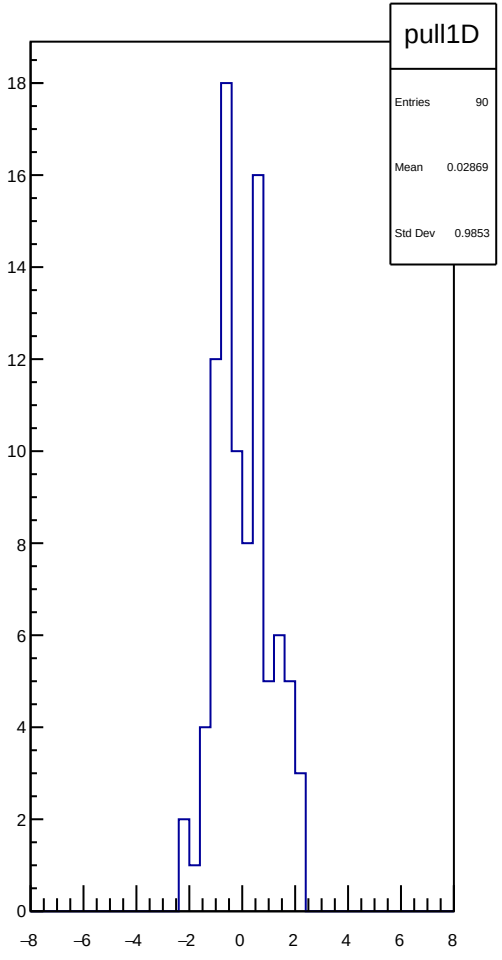

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.39e+04 / 89
p0 129.6 ± 0.09811
190
180
170
160
150
140
130
120
110

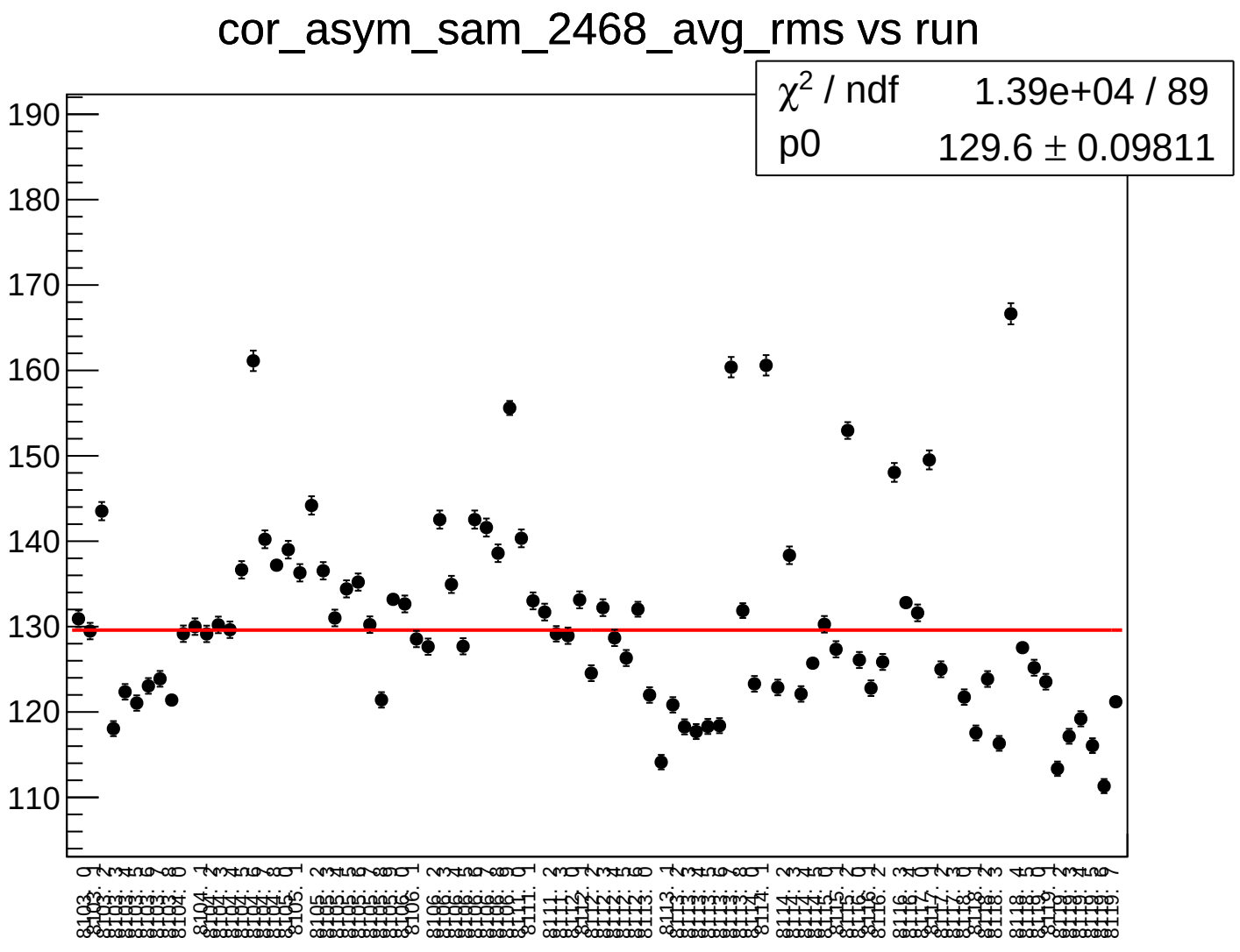

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 94.3 / 89
p0 −4391 ± 1939
pull
Entries 90
Mean −1980
Std Dev 0

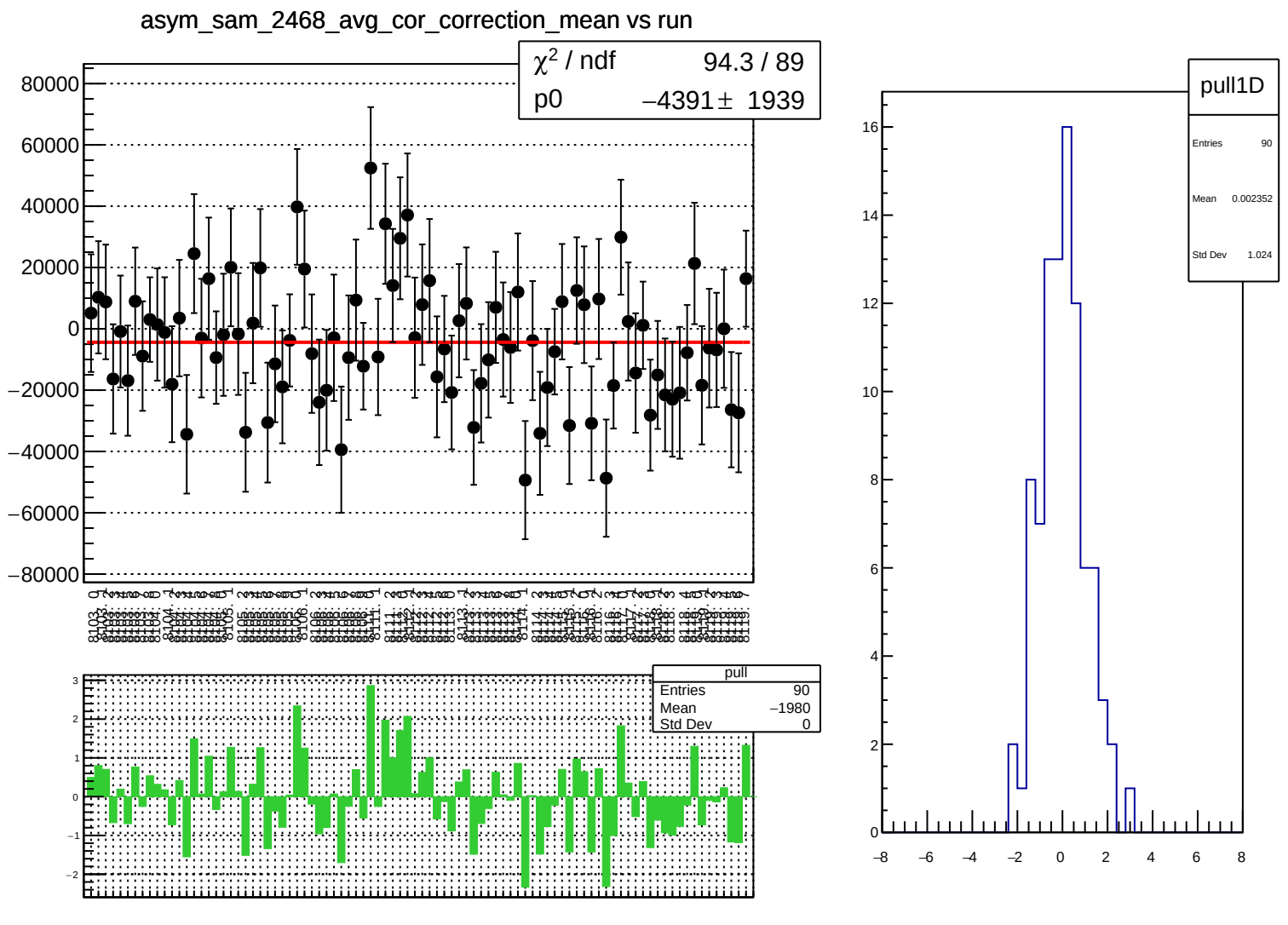

pull1D
Entries 90
Mean 0.002352
Std Dev 1.024

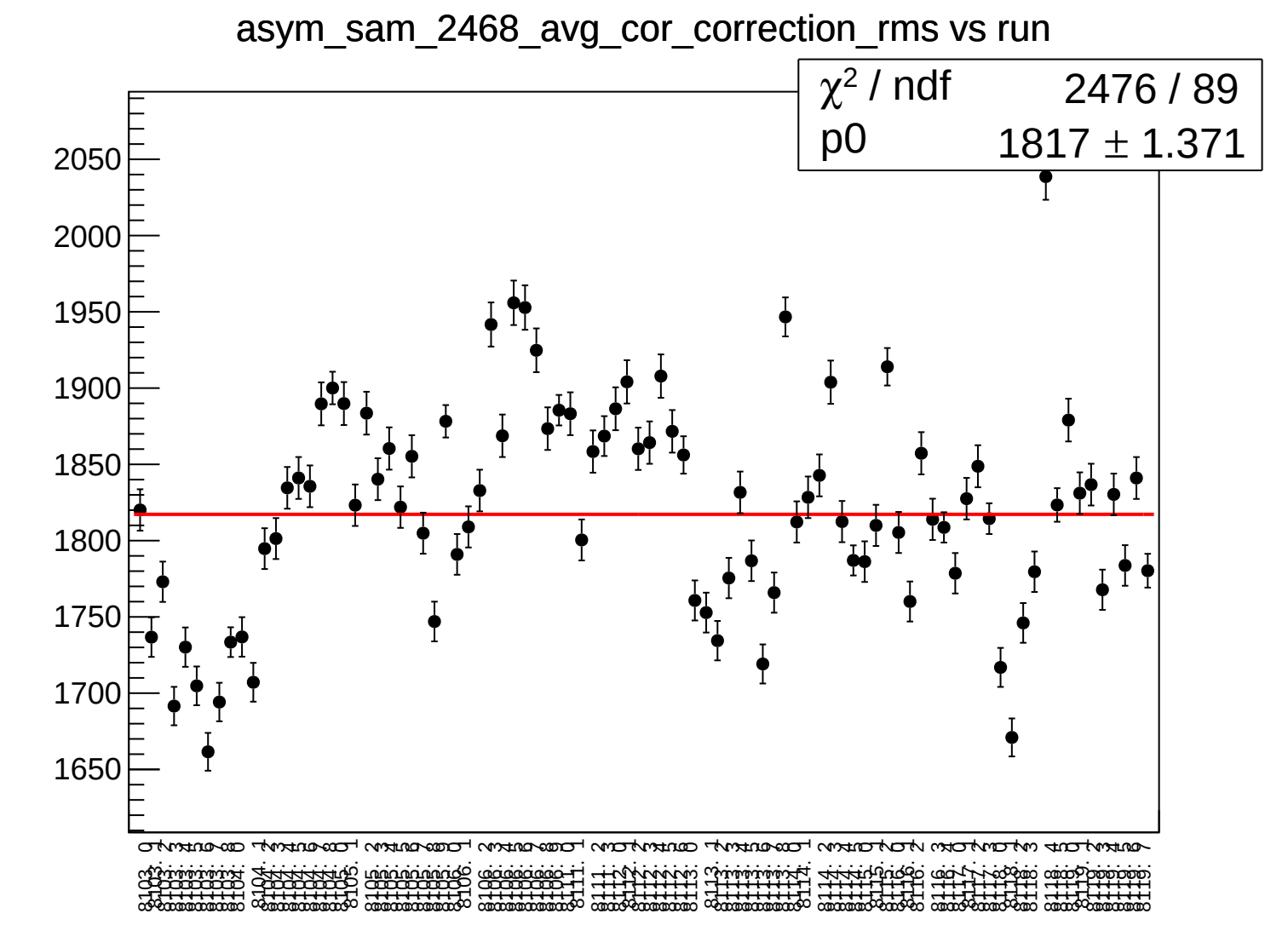

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2476 / 89
p0 1817 ± 1.371
2050
2000
1950
1900
1850
1800
1750
1700
1650

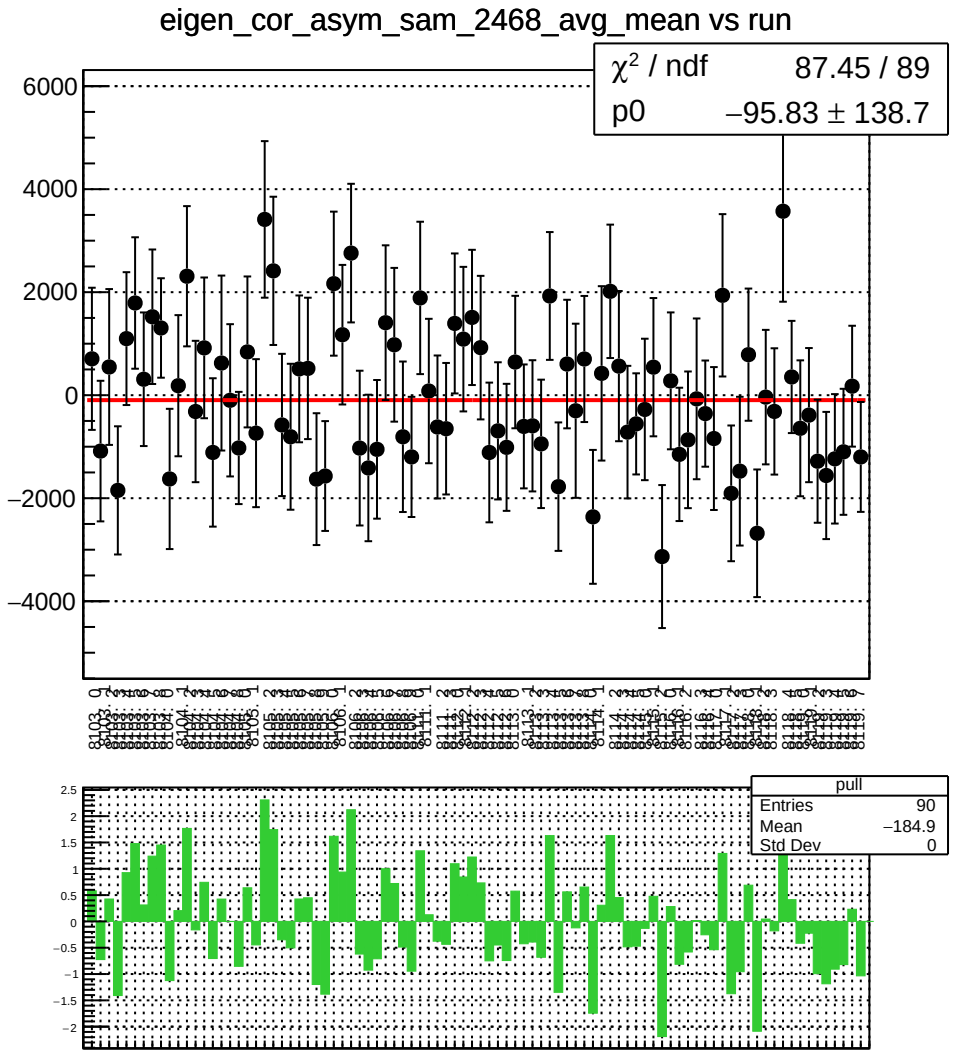

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 87.45 / 89
p0 −95.83 ± 138.7
pull
Entries 90
Mean −184.9
Std Dev 0

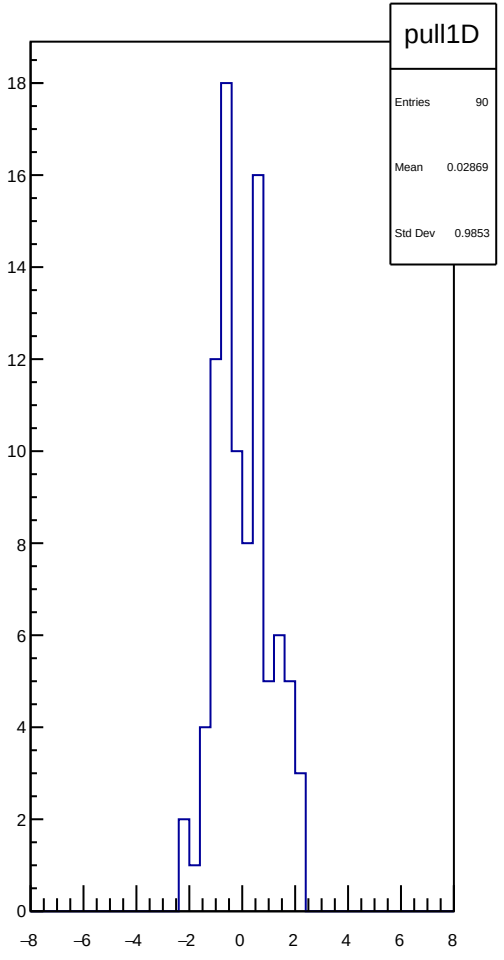

pull1D
Entries 90
Mean 0.02869
Std Dev 0.9853

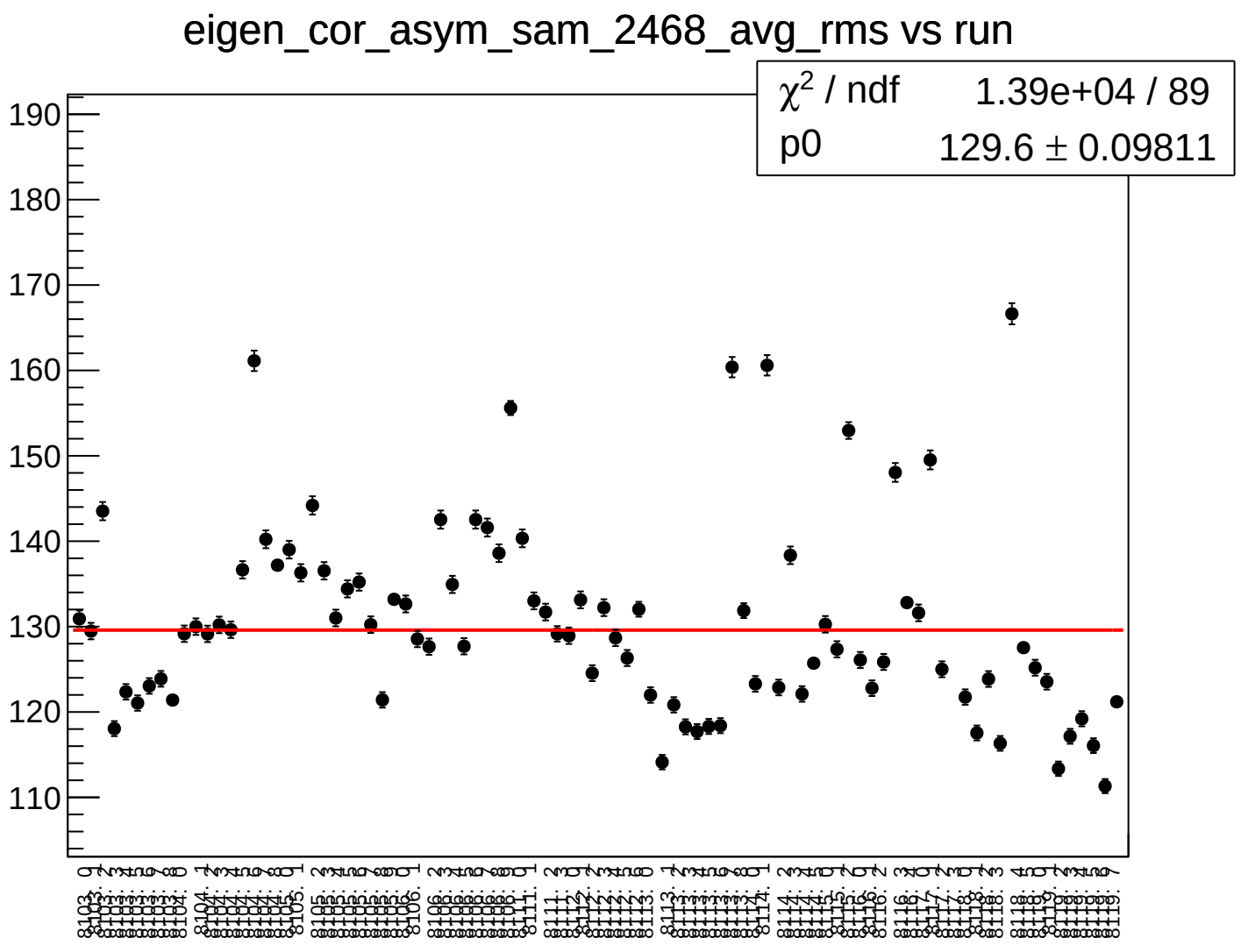

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.39e+04 / 89
p0 129.6 ± 0.09811
190
180
170
160
150
140
130
120
110

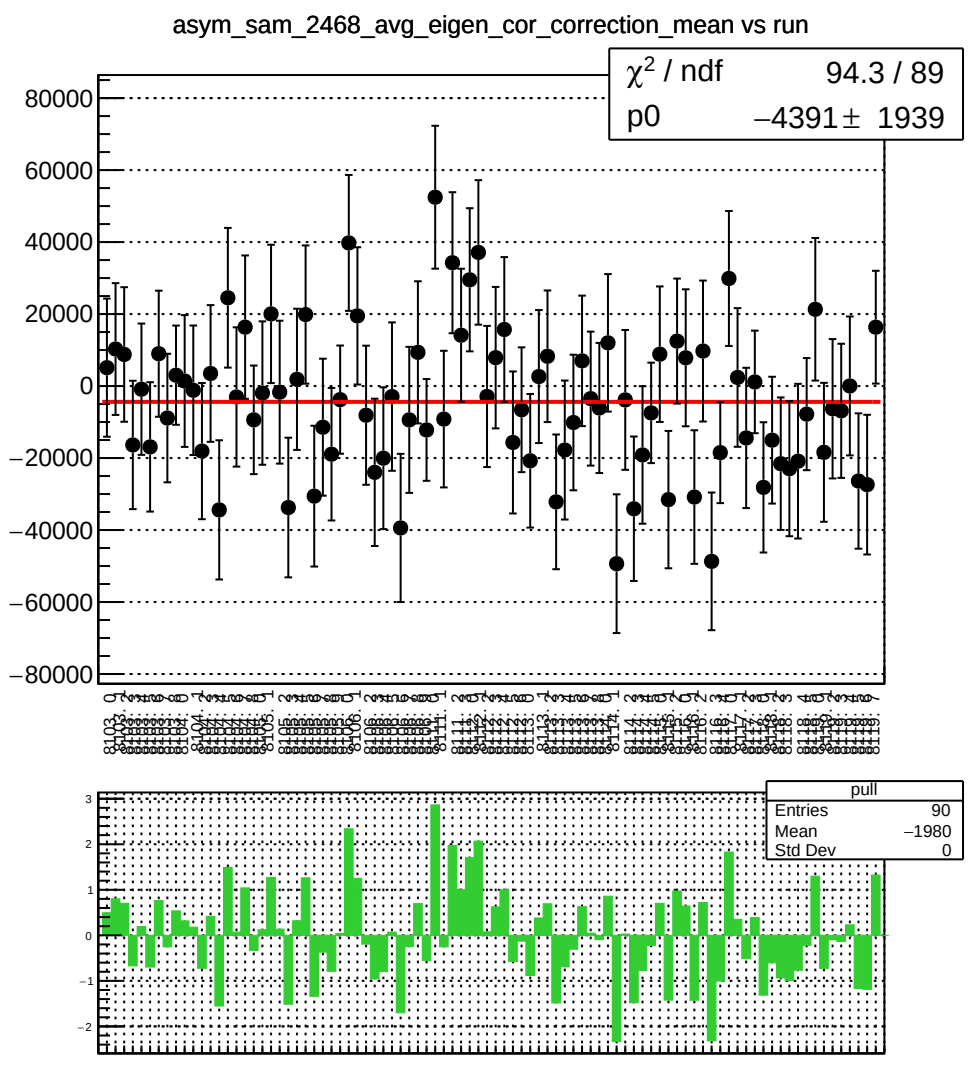

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 94.3 / 89
p0 −4391 ± 1939
pull
Entries 90
Mean −1980
Std Dev 0
pull1D
Entries 90
Mean 0.002352
Std Dev 1.024

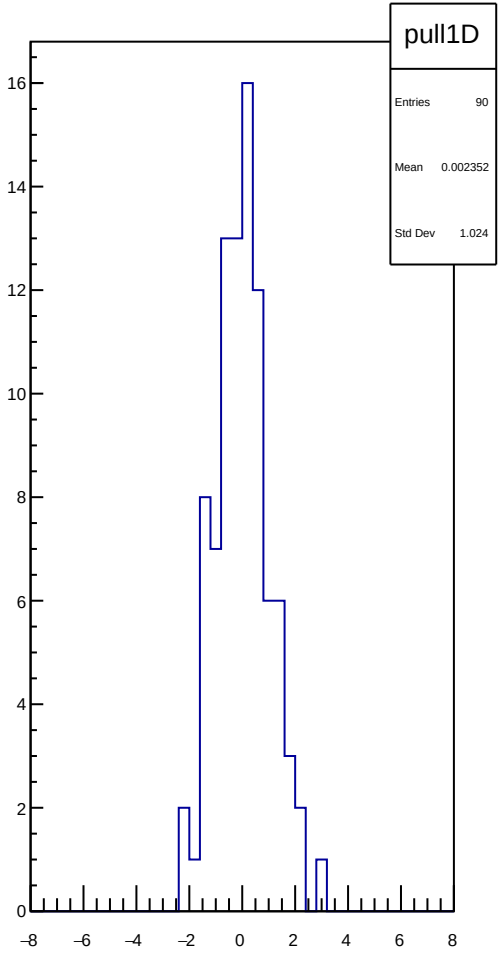

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2476 / 89
p0 1817 ± 1.371
2050
2000
1950
1900
1850
1800
1750
1700
1650

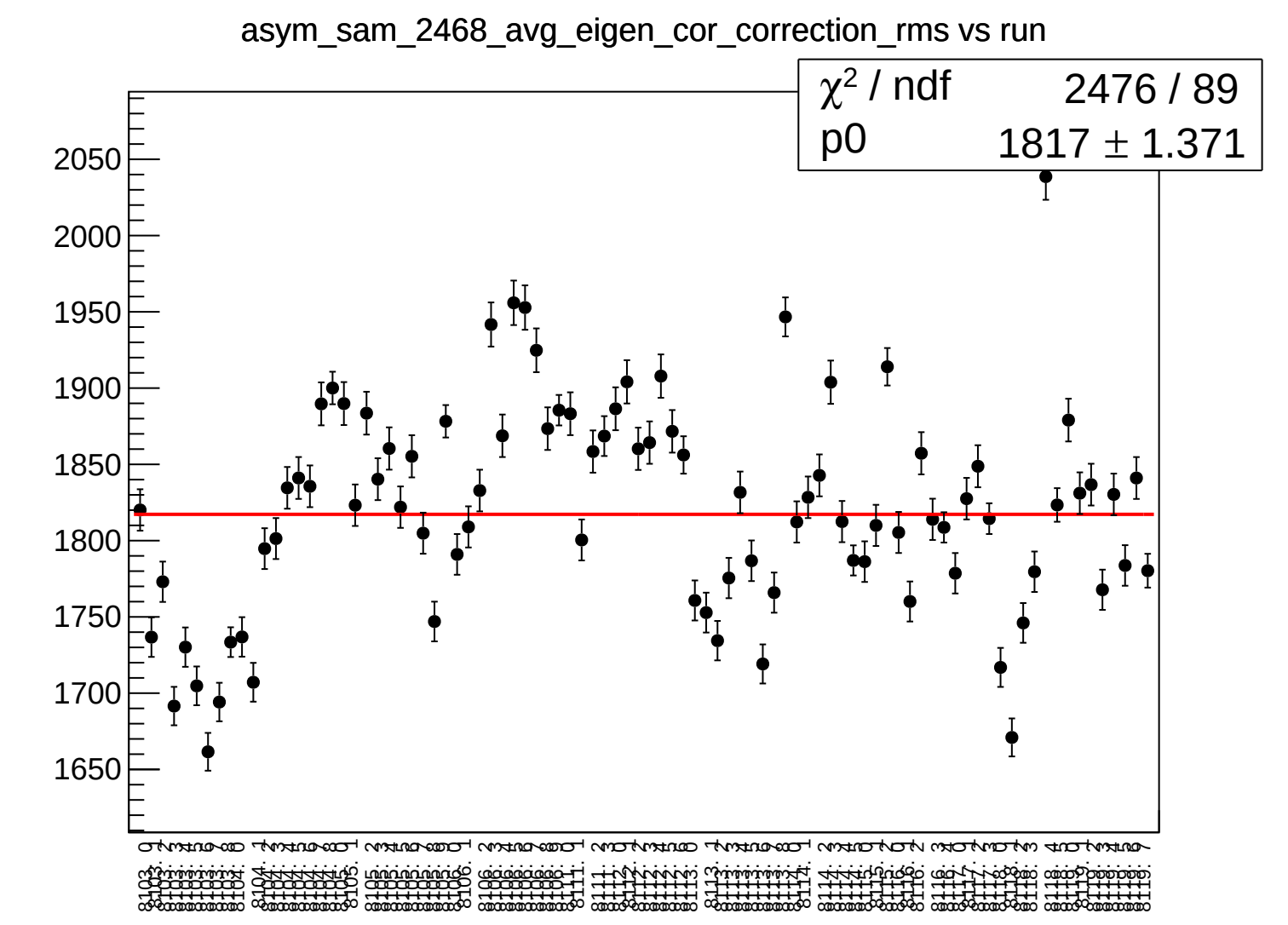

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 87.45 / 89
p0 −95.83 ± 138.7
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −184.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

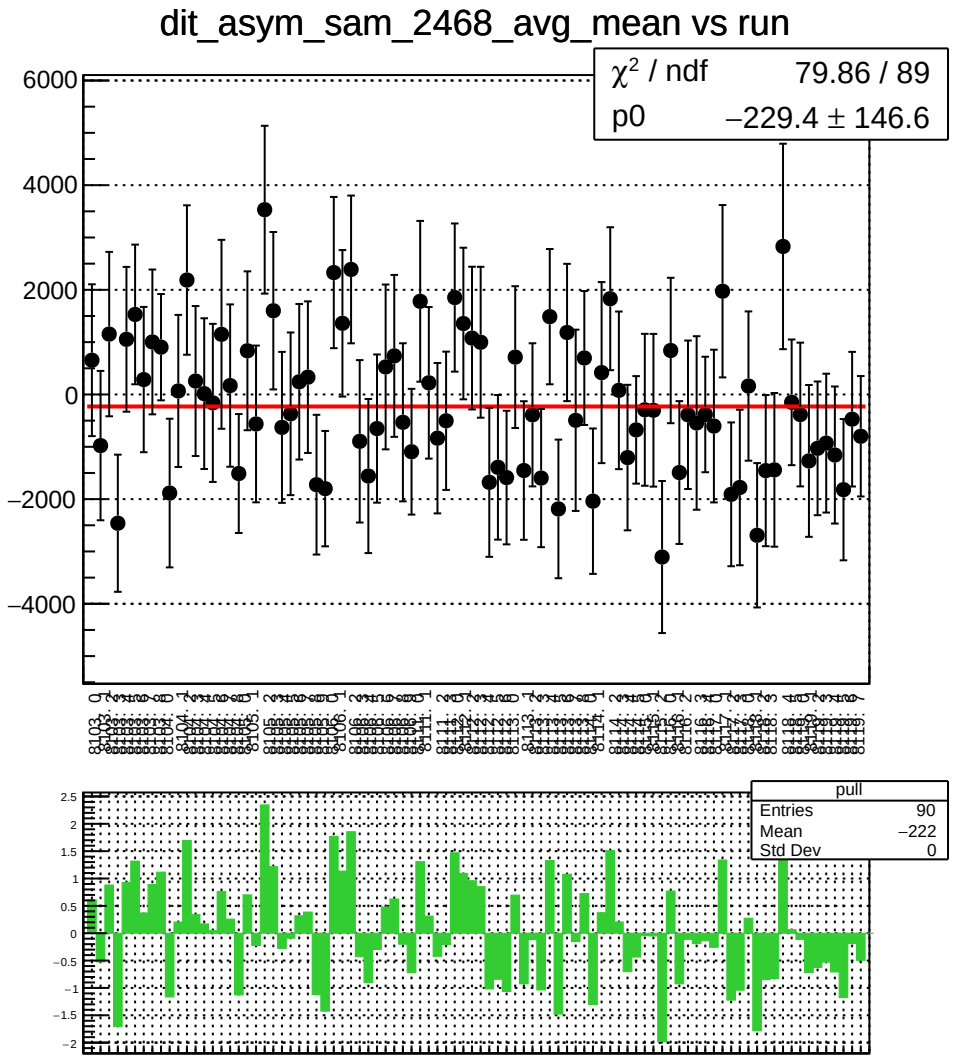

pull1D
Entries 90
Mean 0.02869
Std Dev 0.9853
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

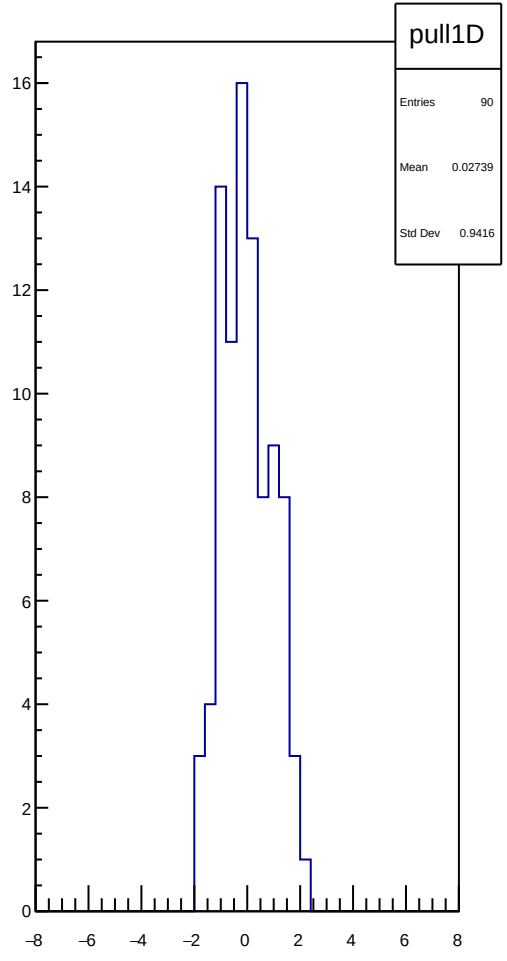

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.39e+04 / 89
p0 129.6 ± 0.09811
190
180
170
160
150
140
130
120
110

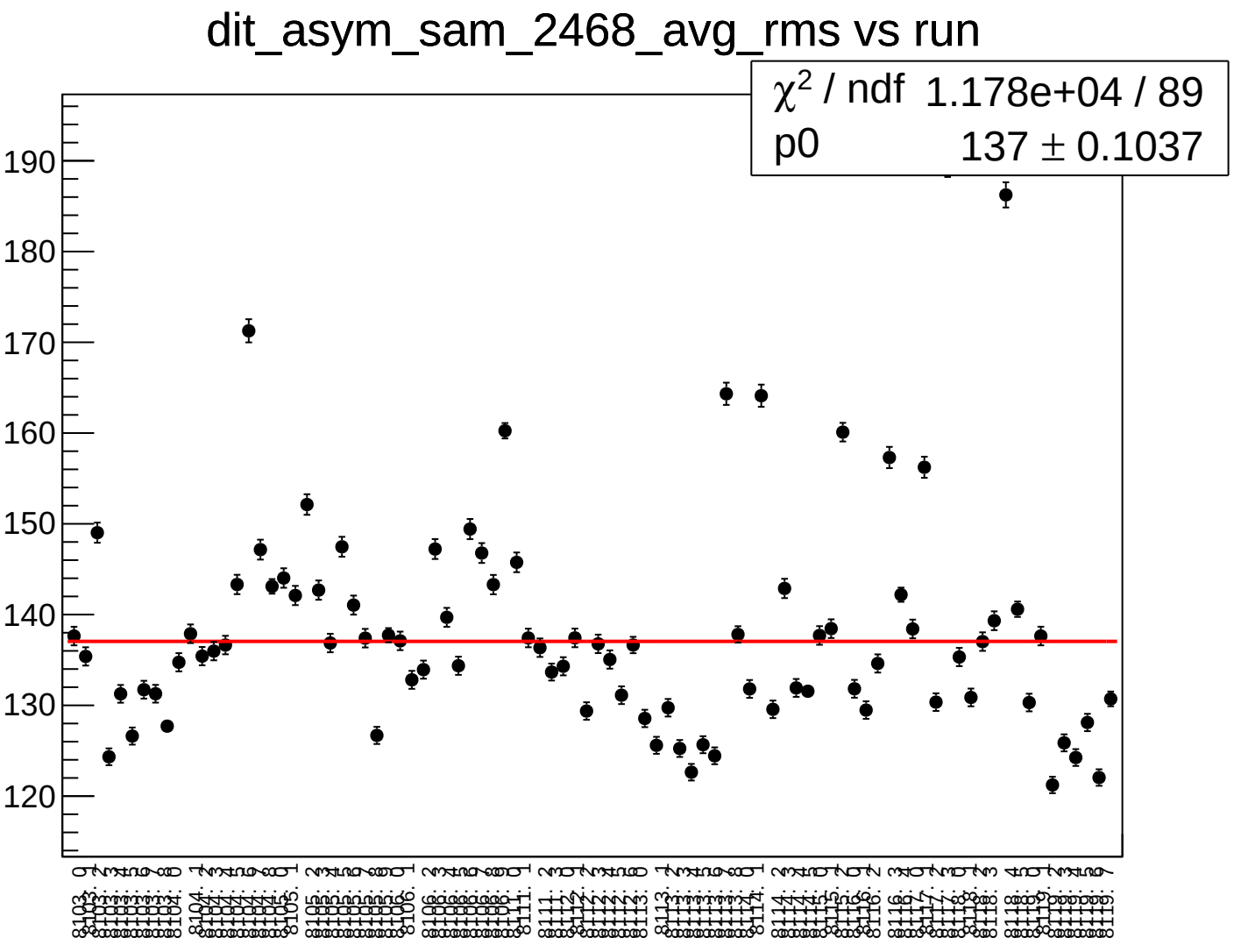

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.3 / 89
p0 −4391 ± 1939
pull
Entries 90
Mean −1980
Std Dev 0

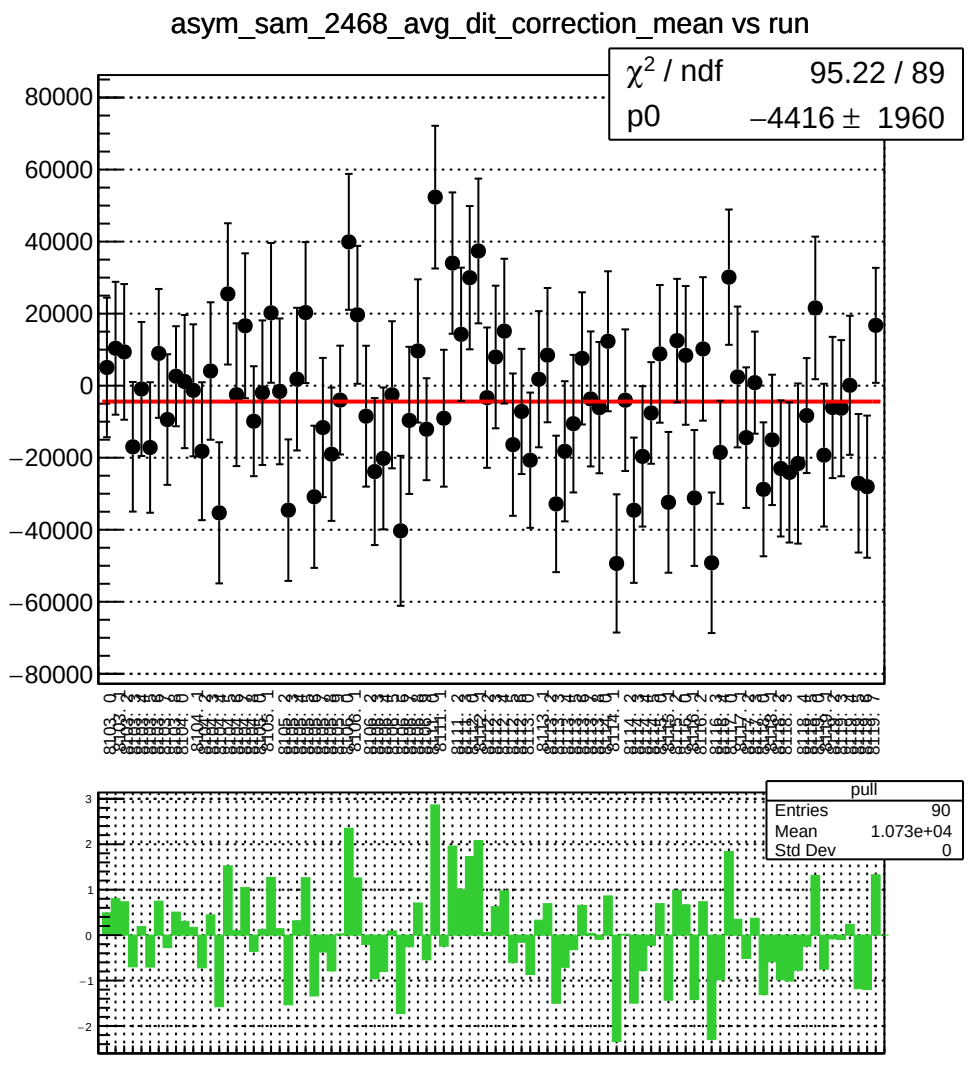

pull1D
Entries 90
Mean 0.002352
Std Dev 1.024

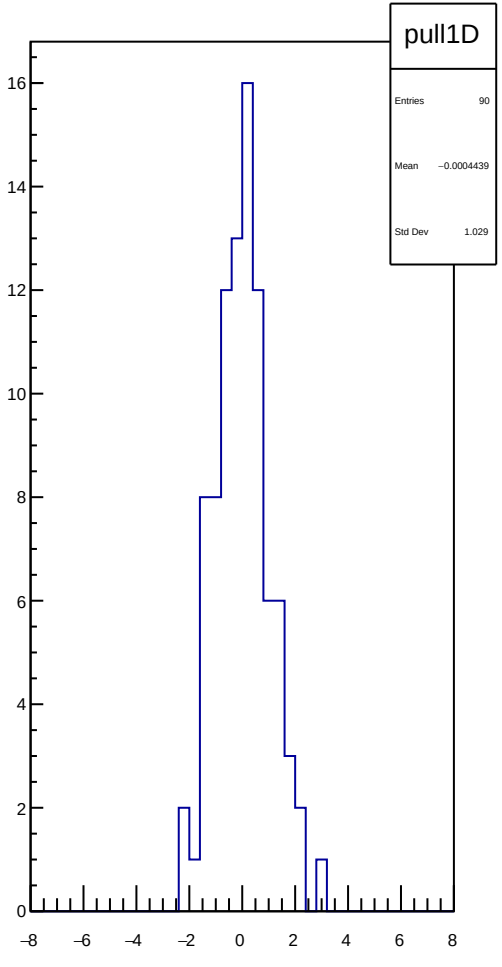

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2476 / 89
p0 1817 ± 1.371
2050
2000
1950
1900
1850
1800
1750
1700
1650

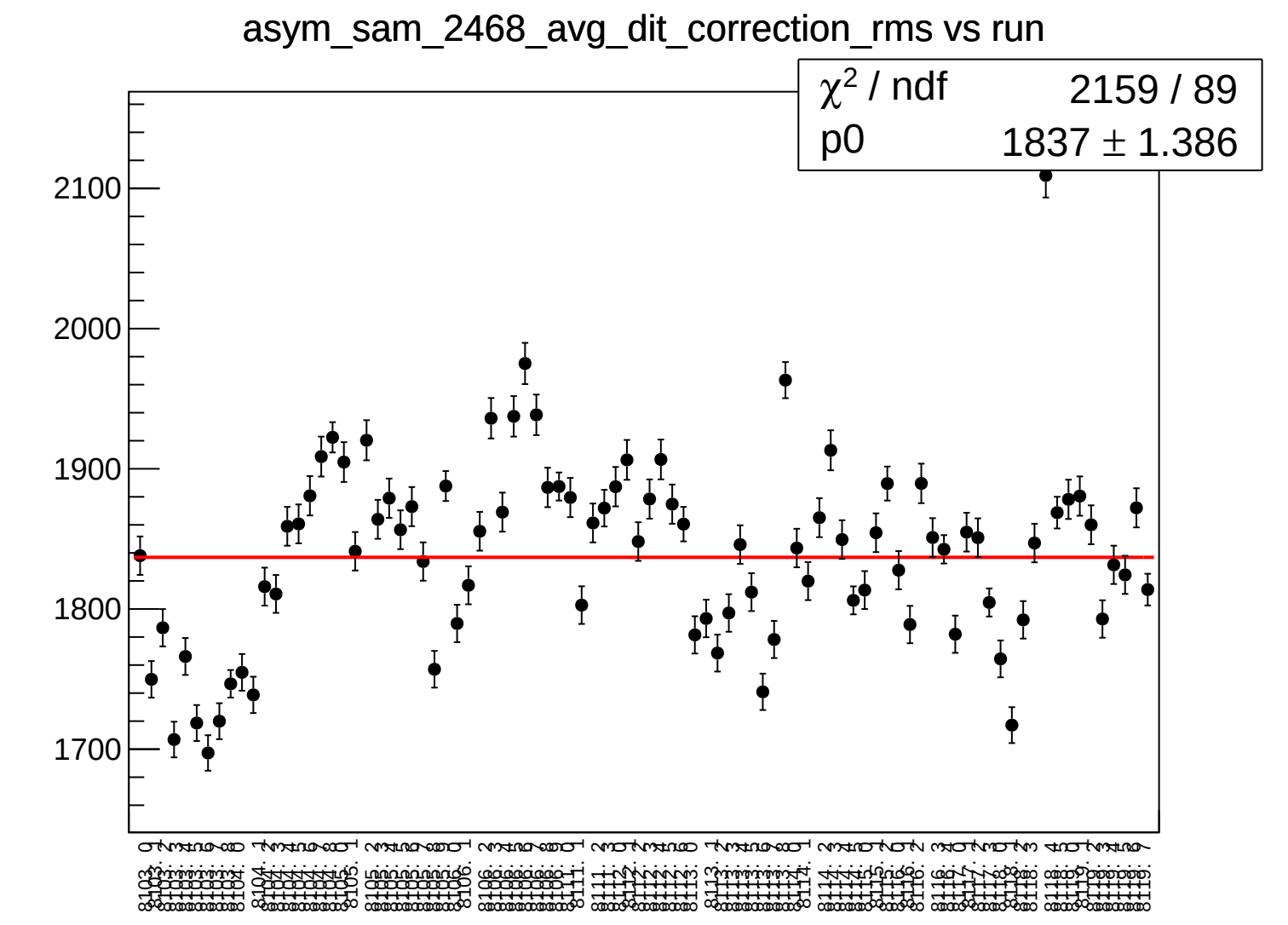

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 79.86 / 89
p0 −229.4 ± 146.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −222
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

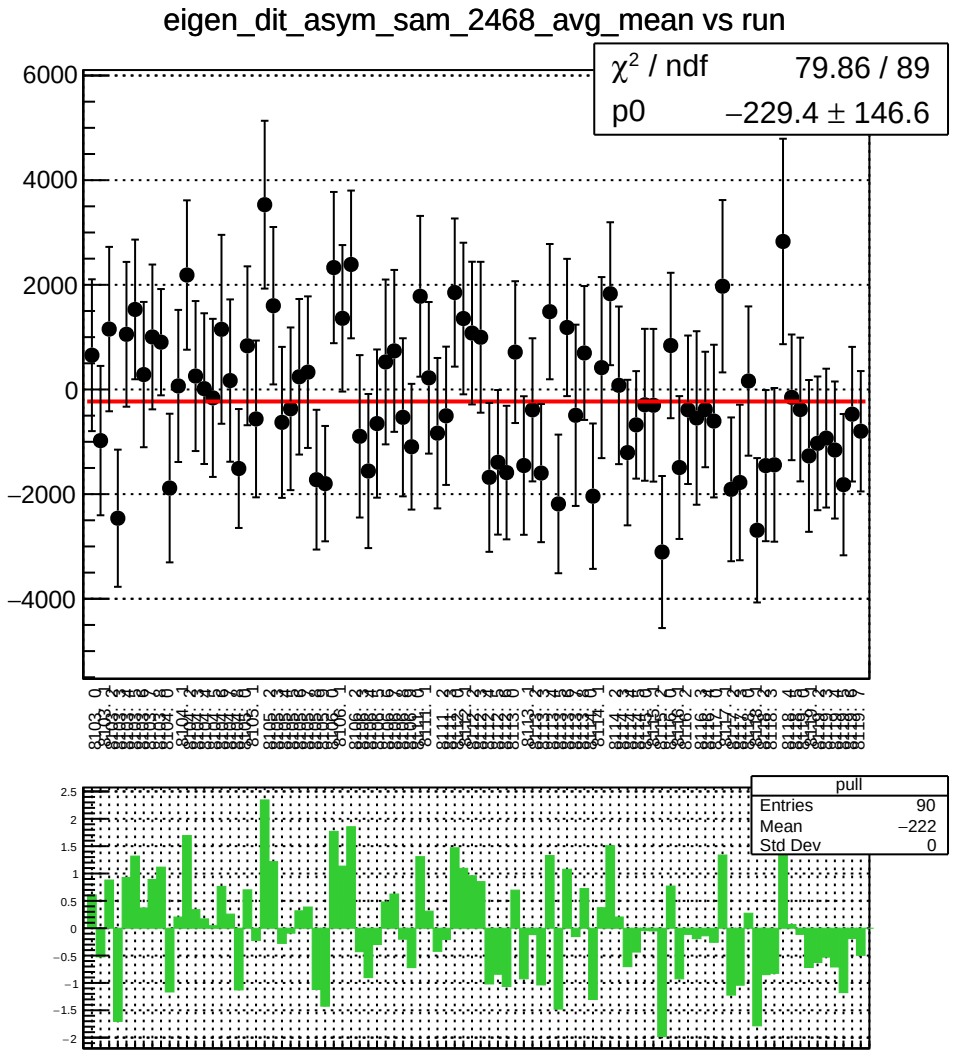

pull1D
Entries 90
Mean 0.02739
Std Dev 0.9416
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

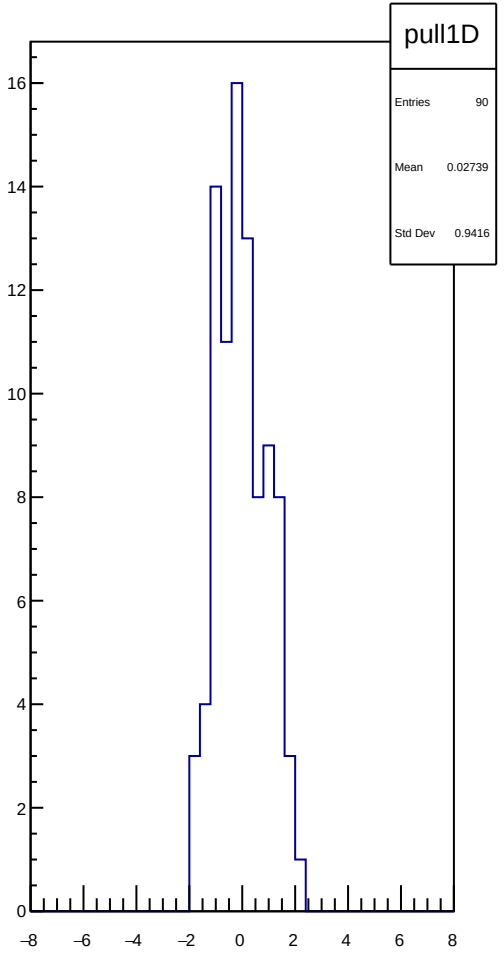

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.178e+04 / 89
p0 137 ± 0.1037
190
180
170
160
150
140
130
120

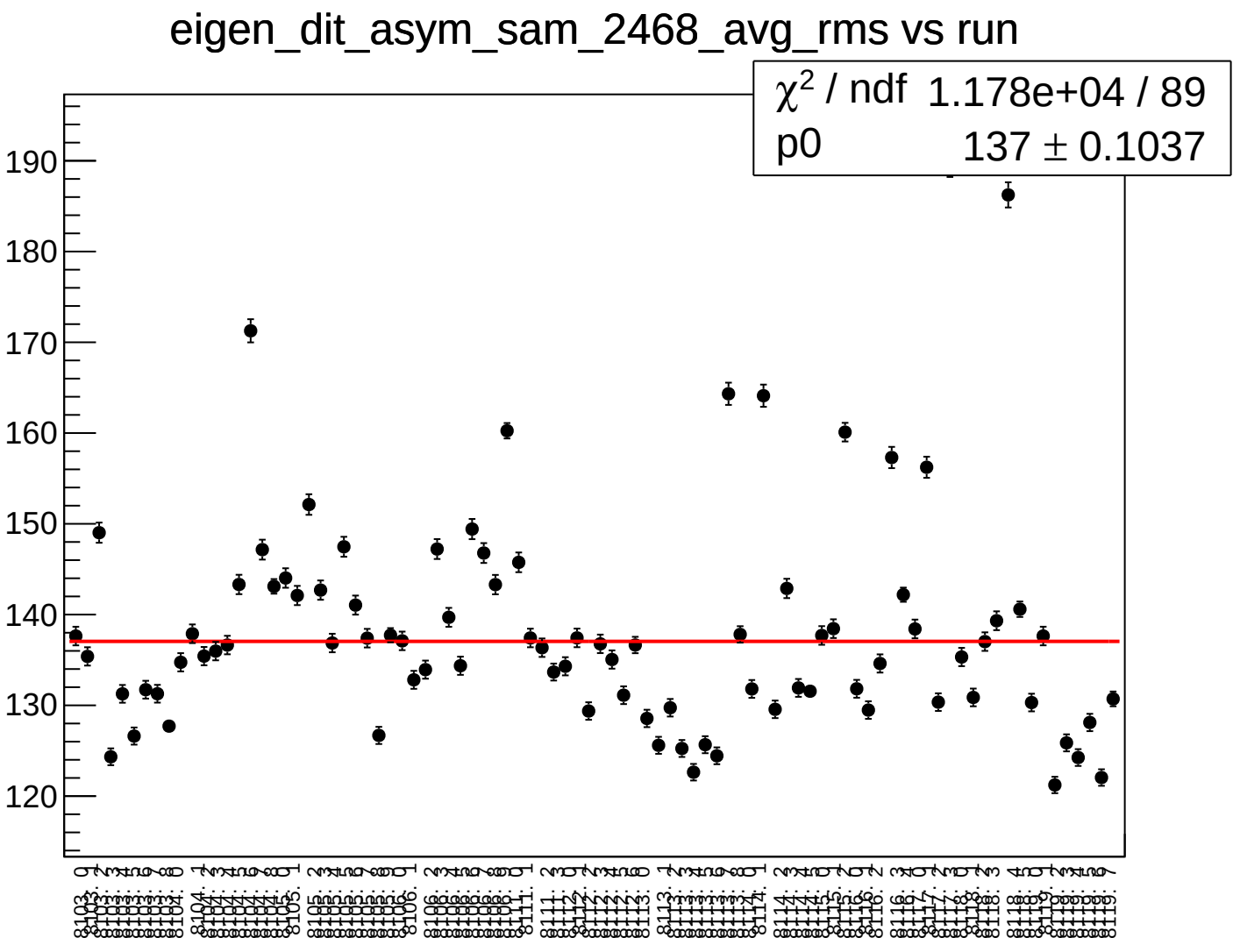

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 95.22 / 89
p0 −4416 ± 1960
pull
Entries 90
Mean 1.073e+04
Std Dev 0

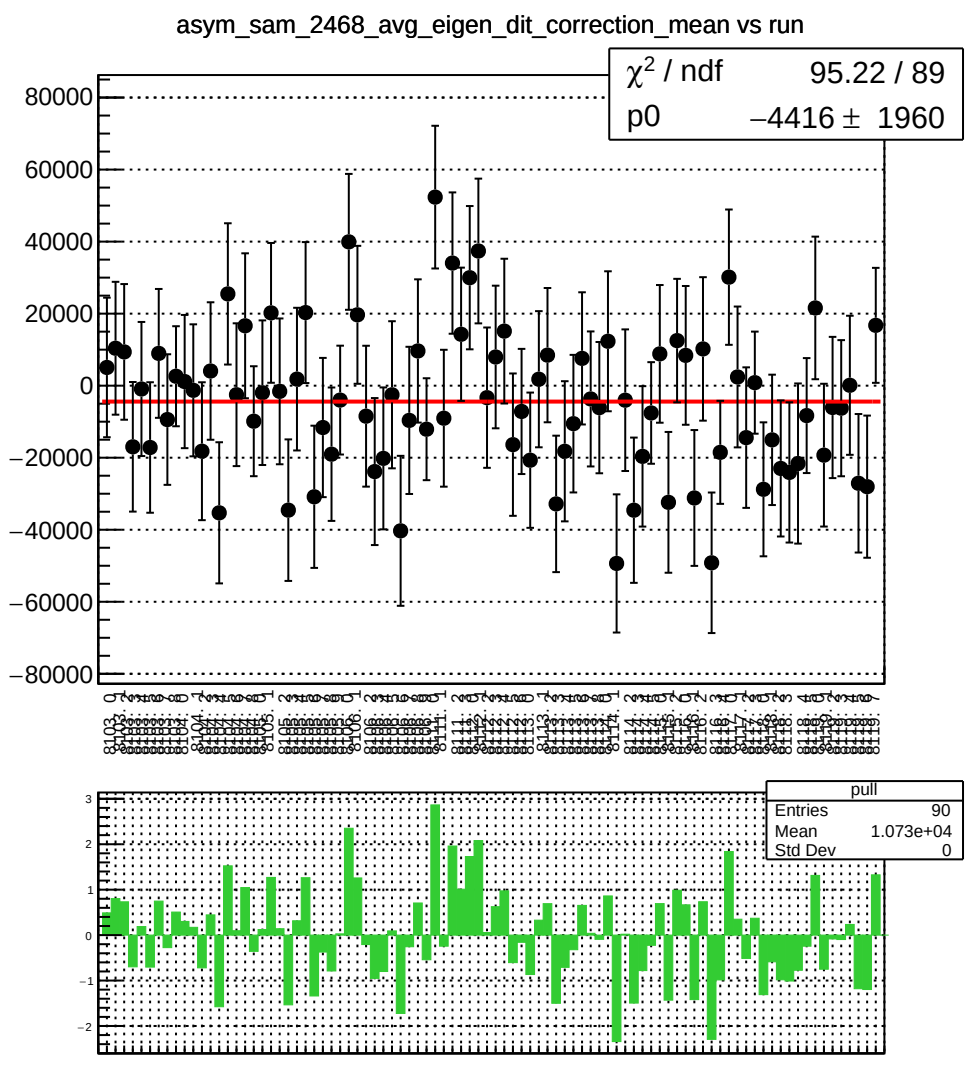

pull1D
Entries 90
Mean −0.0004439
Std Dev 1.029

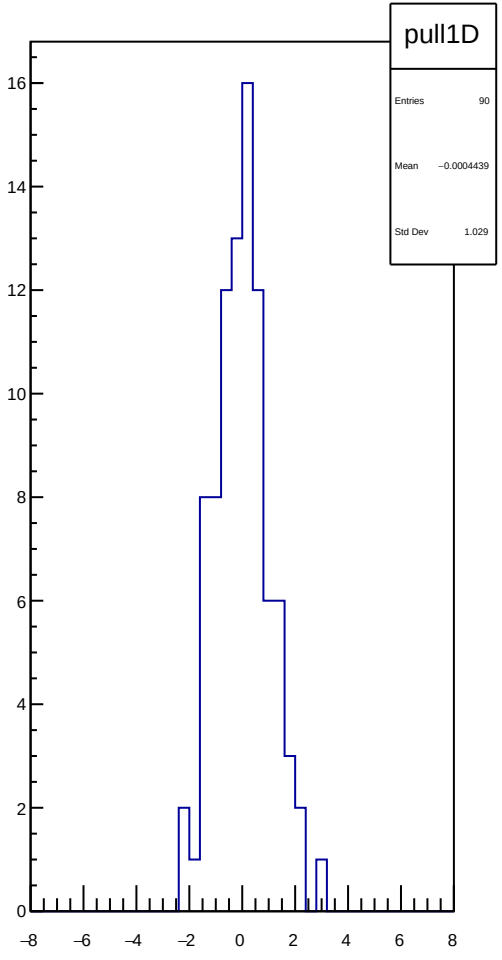

asym_sam_2468_avg_dit_correction_rms vs run
χ^2 / ndf 2159 / 89
p0 1837 ± 1.386
2100
2000
1900
1800
1700

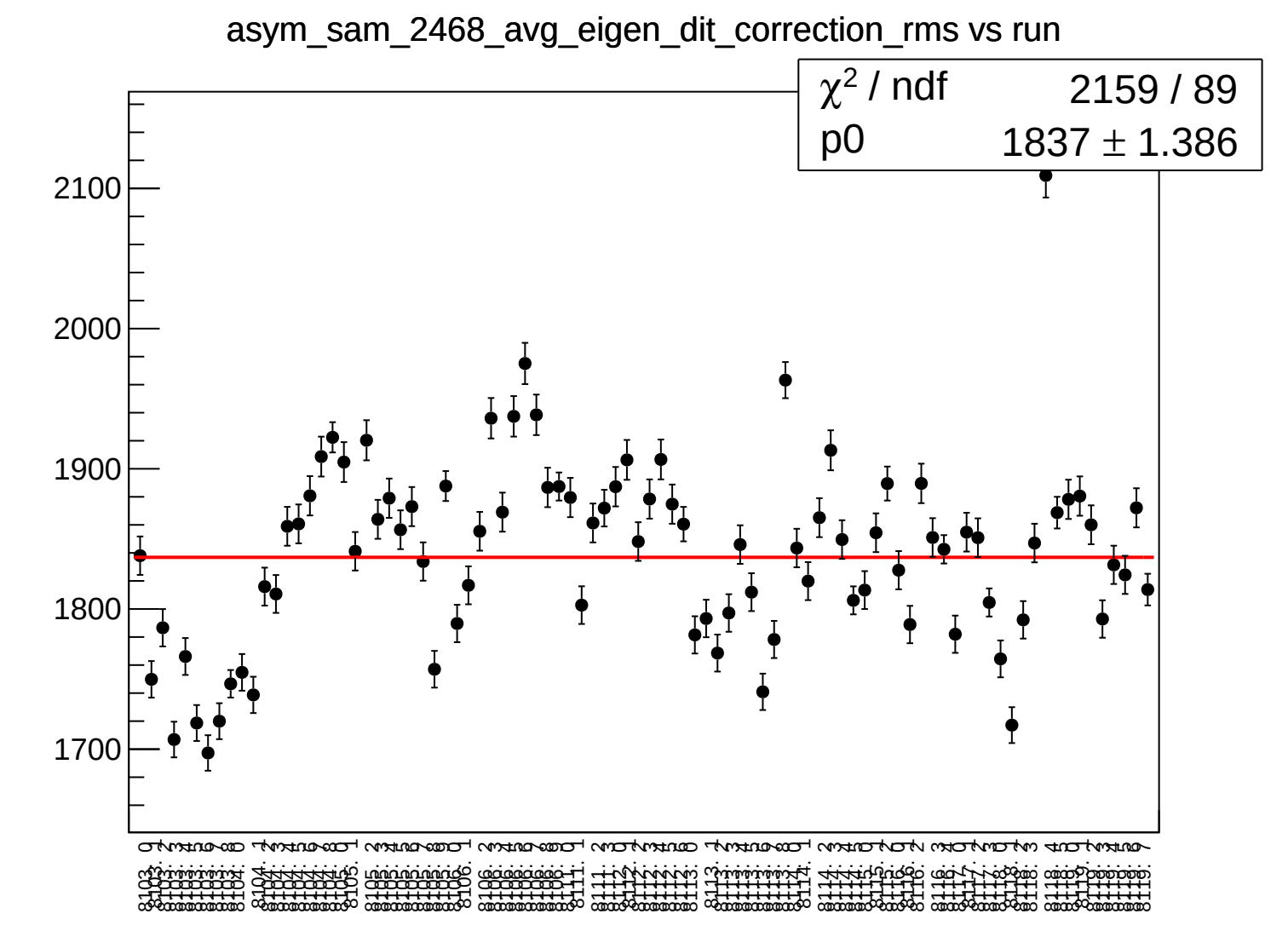

eigen_dit_asym_sam_2468_avg_mean vs run
χ^2 / ndf 79.86 / 89
p0 −229.4 ± 146.6
6000
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −222
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

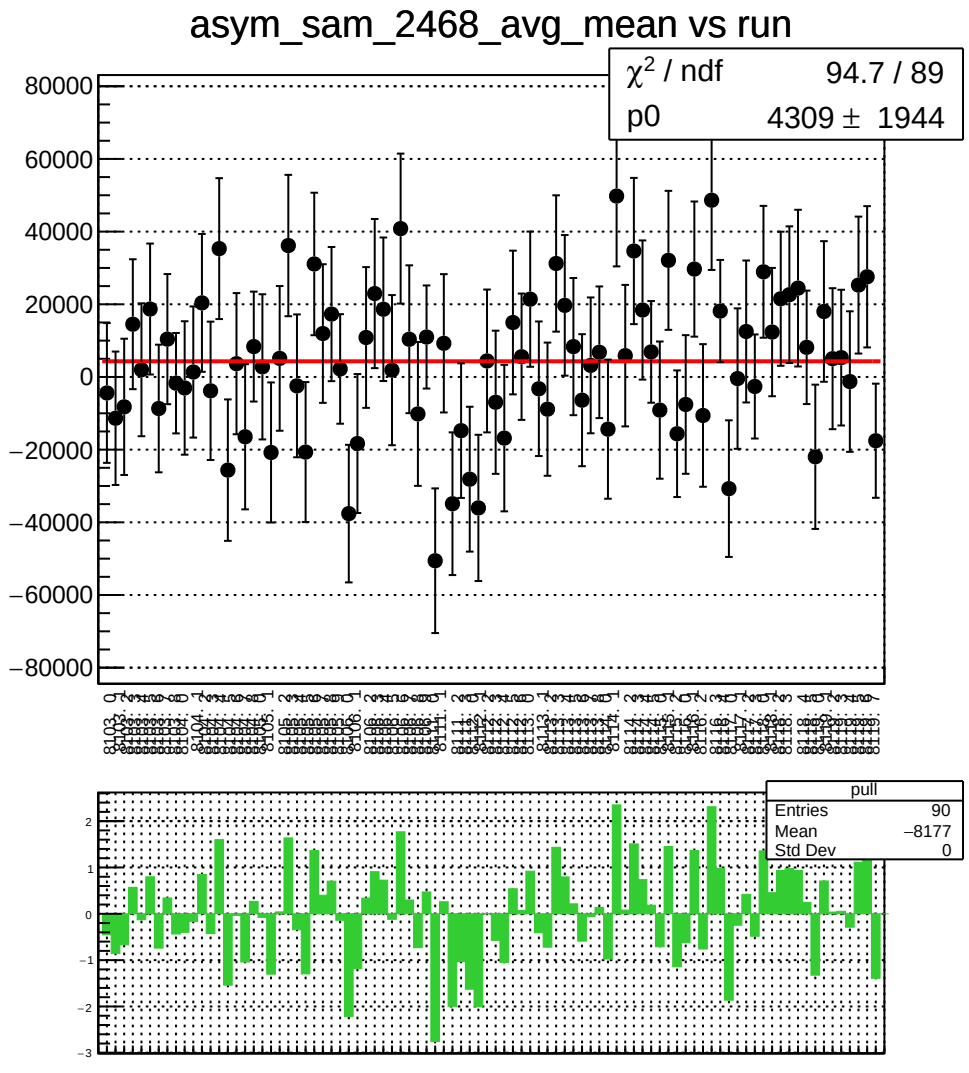

pull1D
Entries 90
Mean 0.02739
Std Dev 0.9416
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

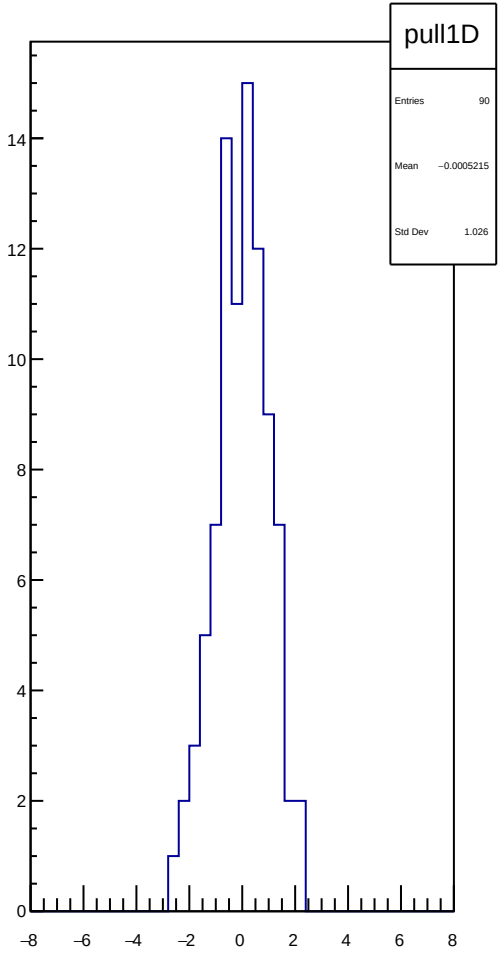

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.178e+04 / 89
p0 137 ± 0.1037
190
180
170
160
150
140
130
120

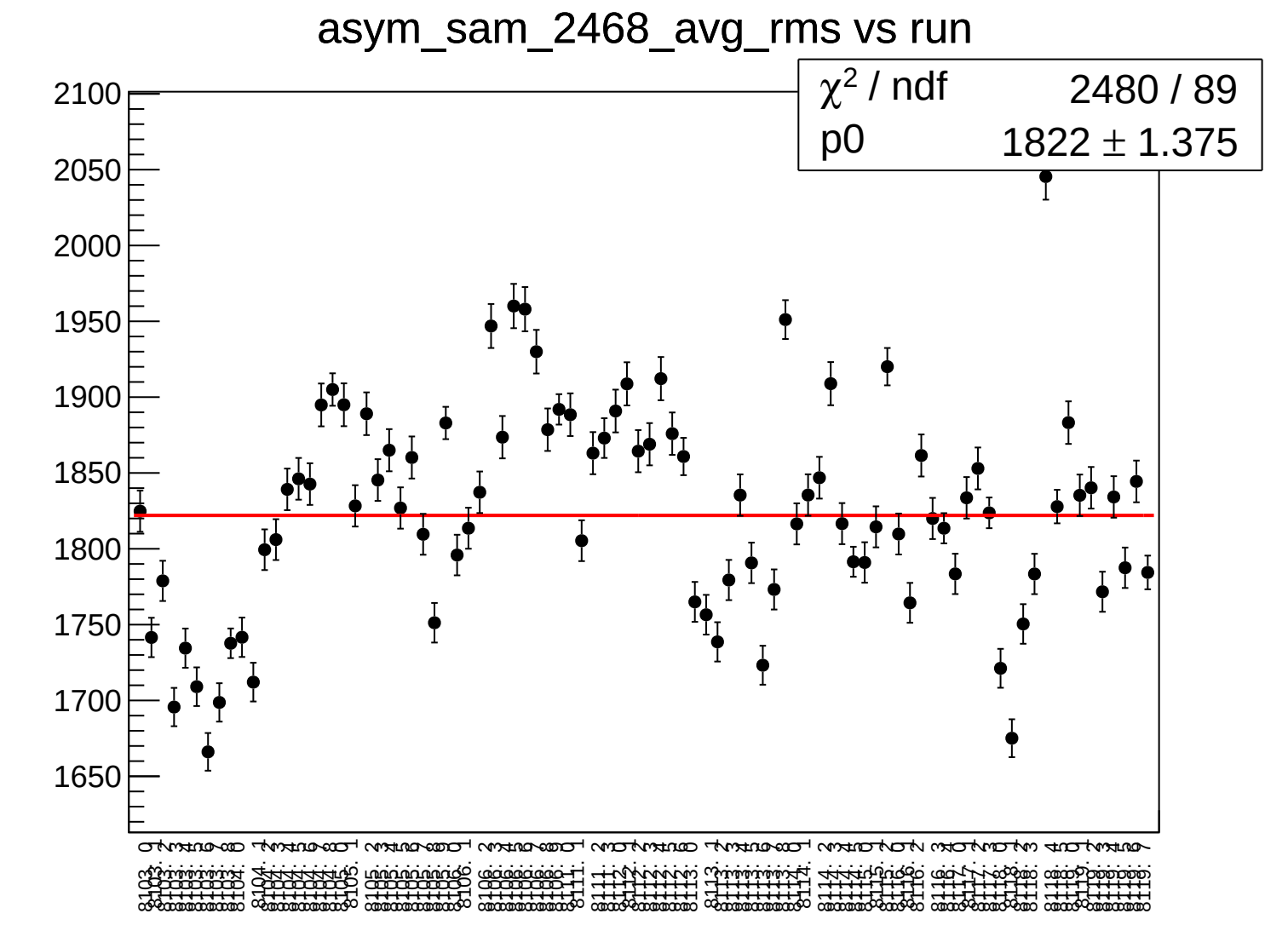

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.22 / 89
p0 −4416 ± 1960
pull
Entries 90
Mean 1.073e+04
Std Dev 0

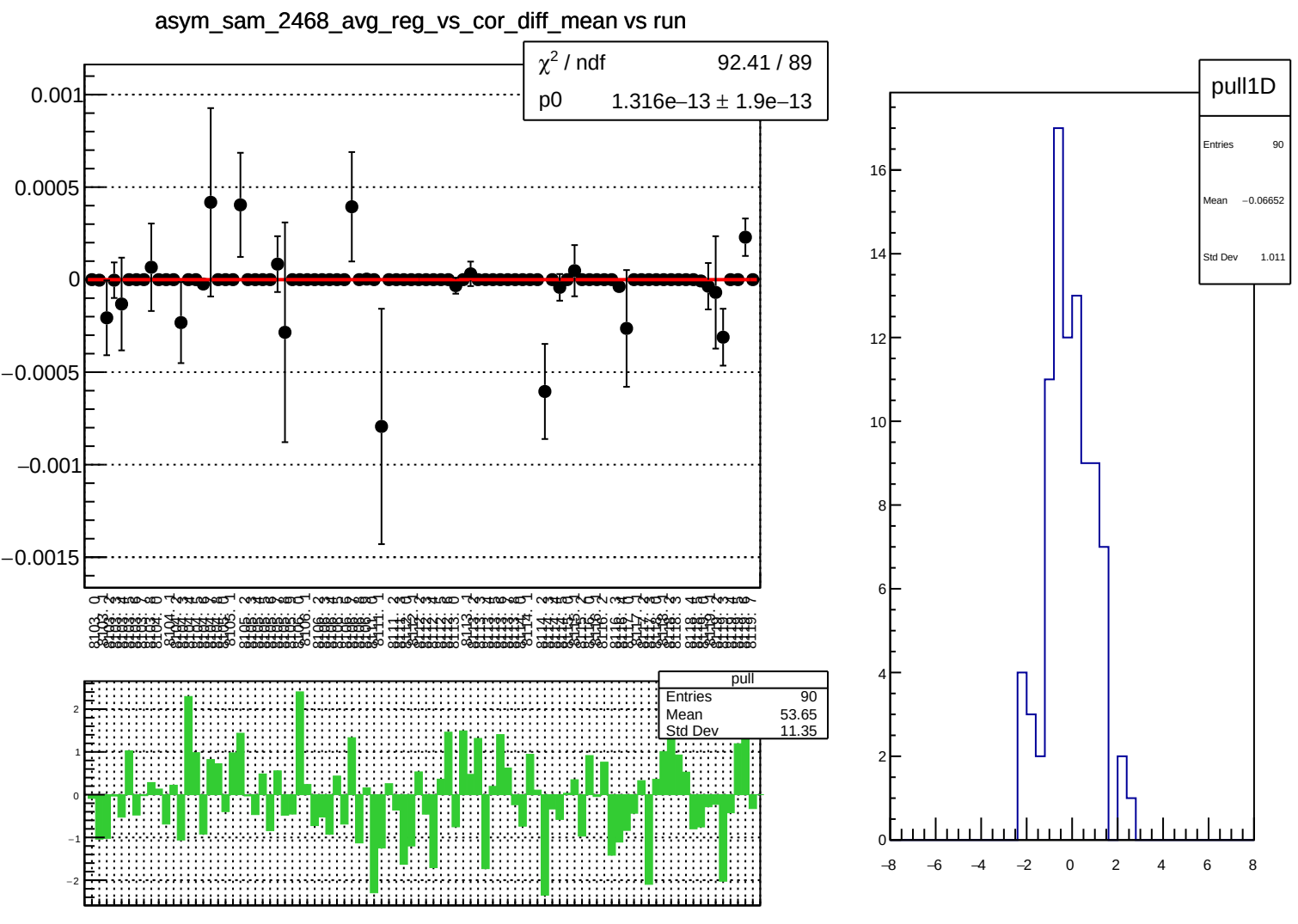

pull1D
Entries 90
Mean −0.0004439
Std Dev 1.029

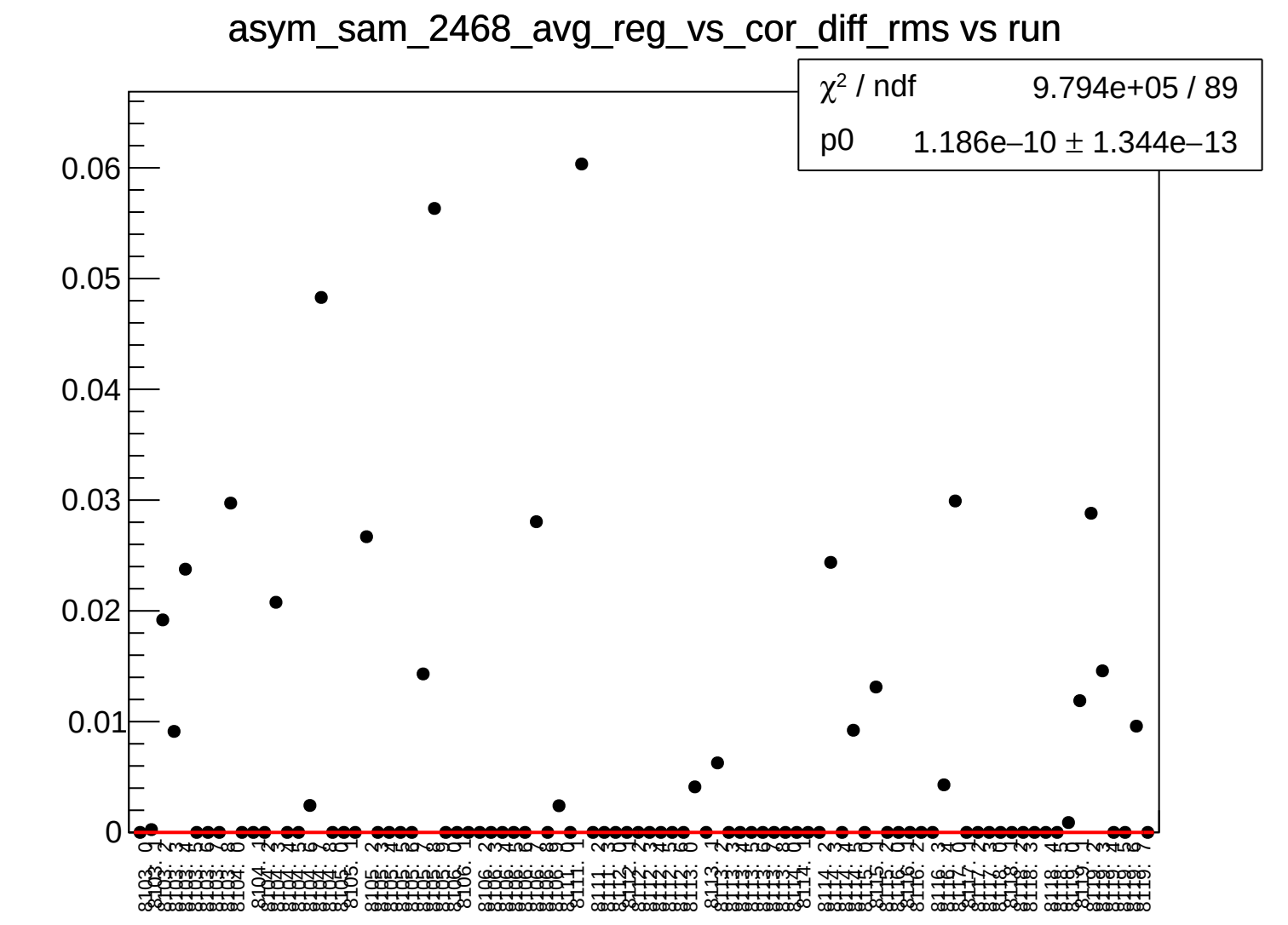

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 2159 / 89
p0 1837 ± 1.386
2100
2000
1900
1800
1700

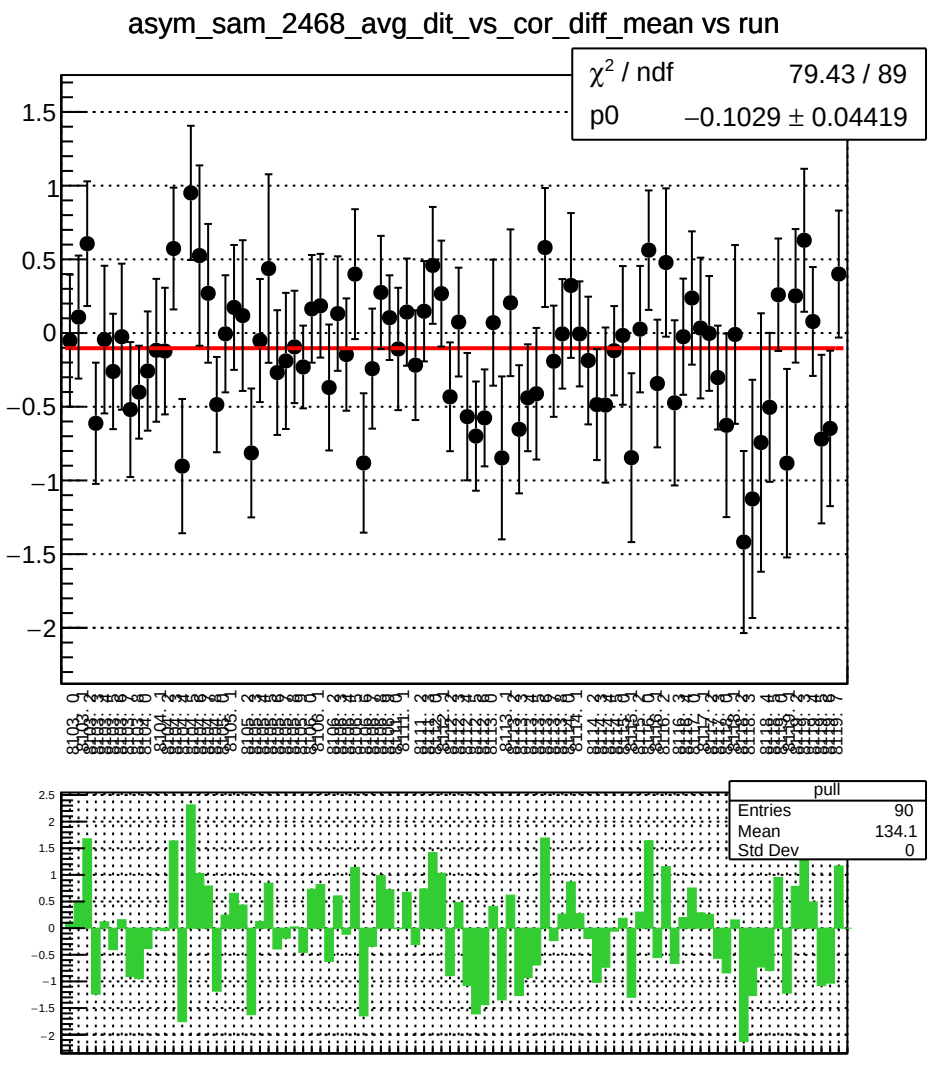

asym_sam_2468_avg_mean vs run
χ² / ndf 94.7 / 89
p0 4309 ± 1944
pull
Entries 90
Mean −8177
Std Dev 0

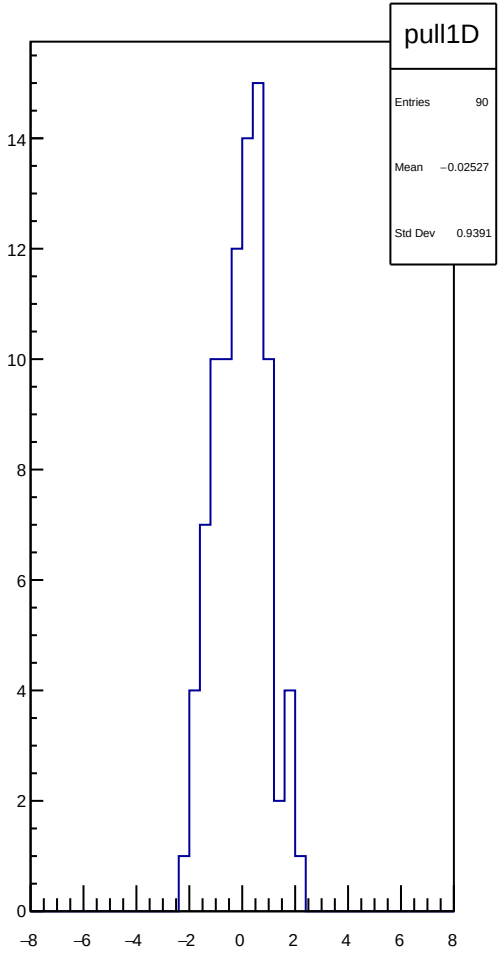

pull1D
Entries 90
Mean −0.0005215
Std Dev 1.026

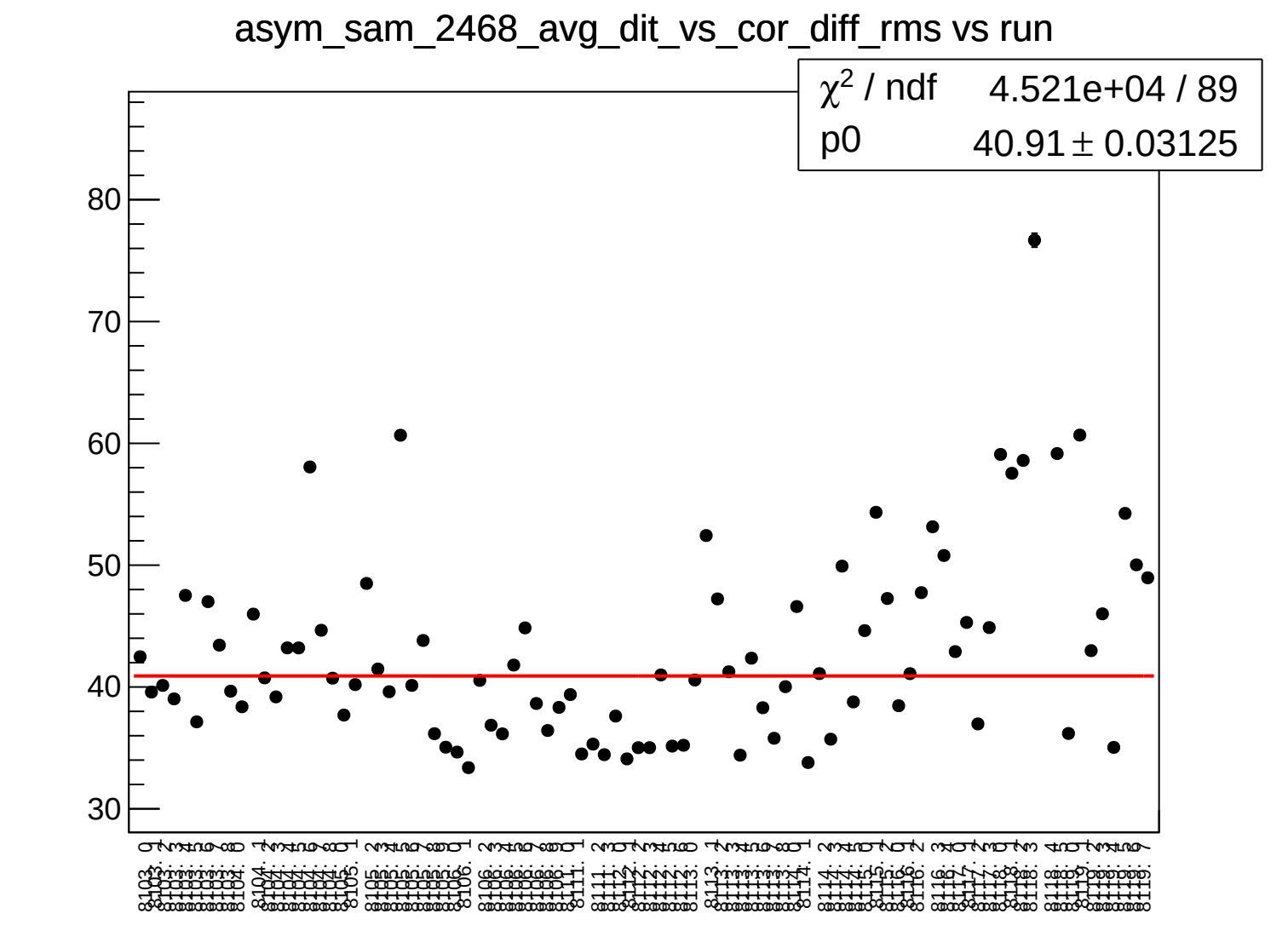

asym_sam_2468_avg_rms vs run
χ² / ndf 2480 / 89
p0 1822 ± 1.375
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

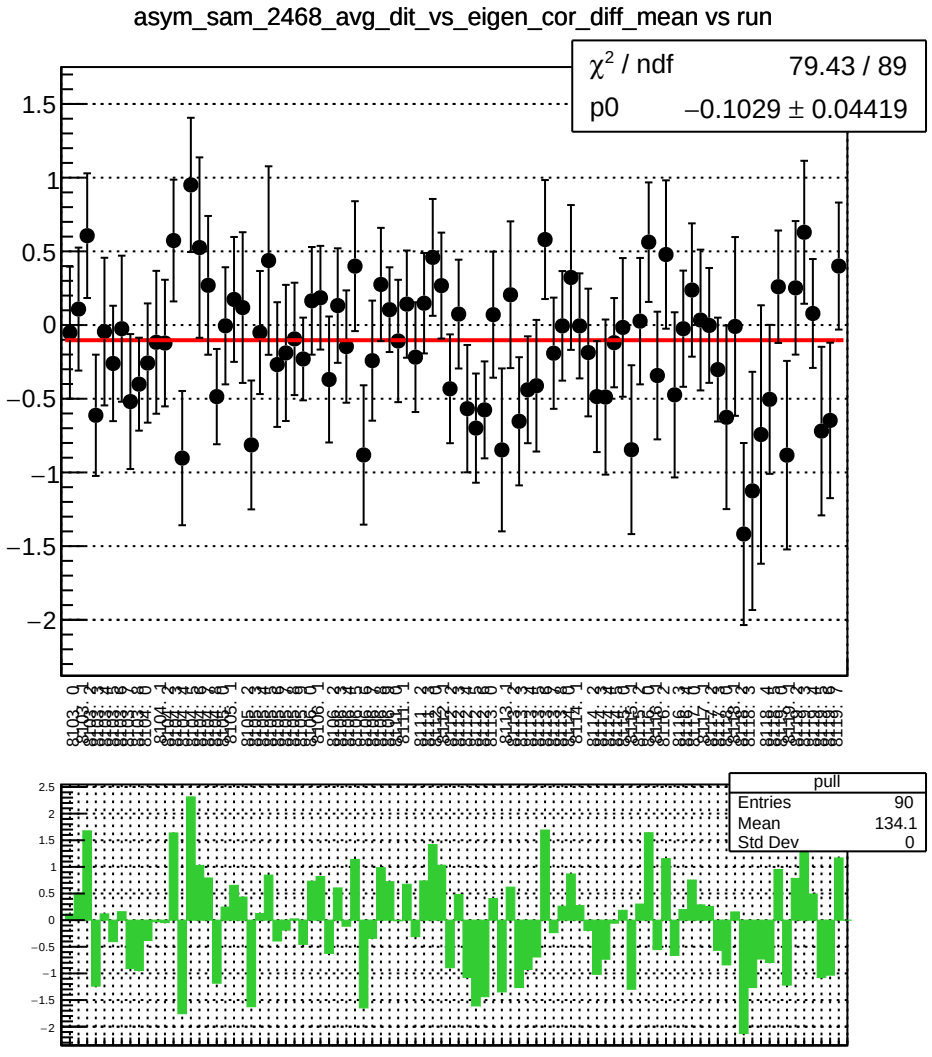

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.41 / 89
p0 1.316e−13 ± 1.9e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 90
Mean 53.65
Std Dev 11.35
pull1D
Entries 90
Mean −0.06652
Std Dev 1.011

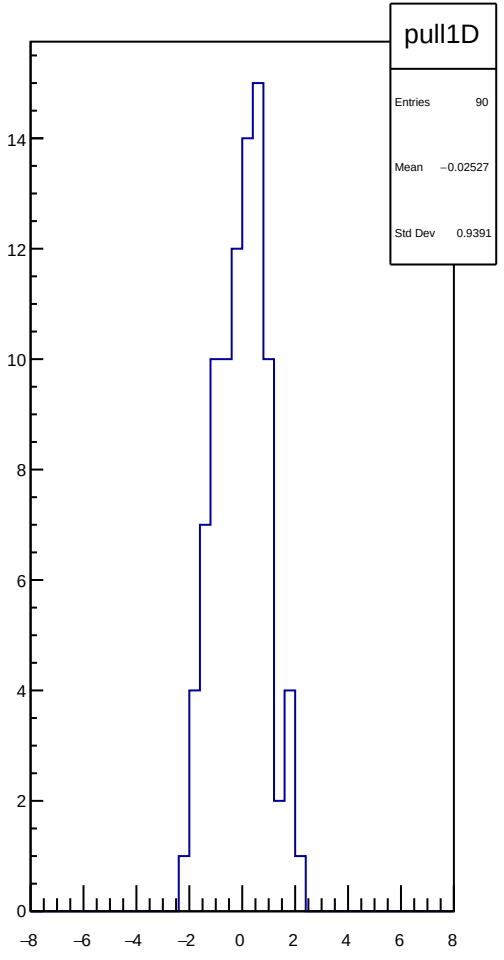

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.794e+05 / 89
p0 1.186e−10 ± 1.344e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

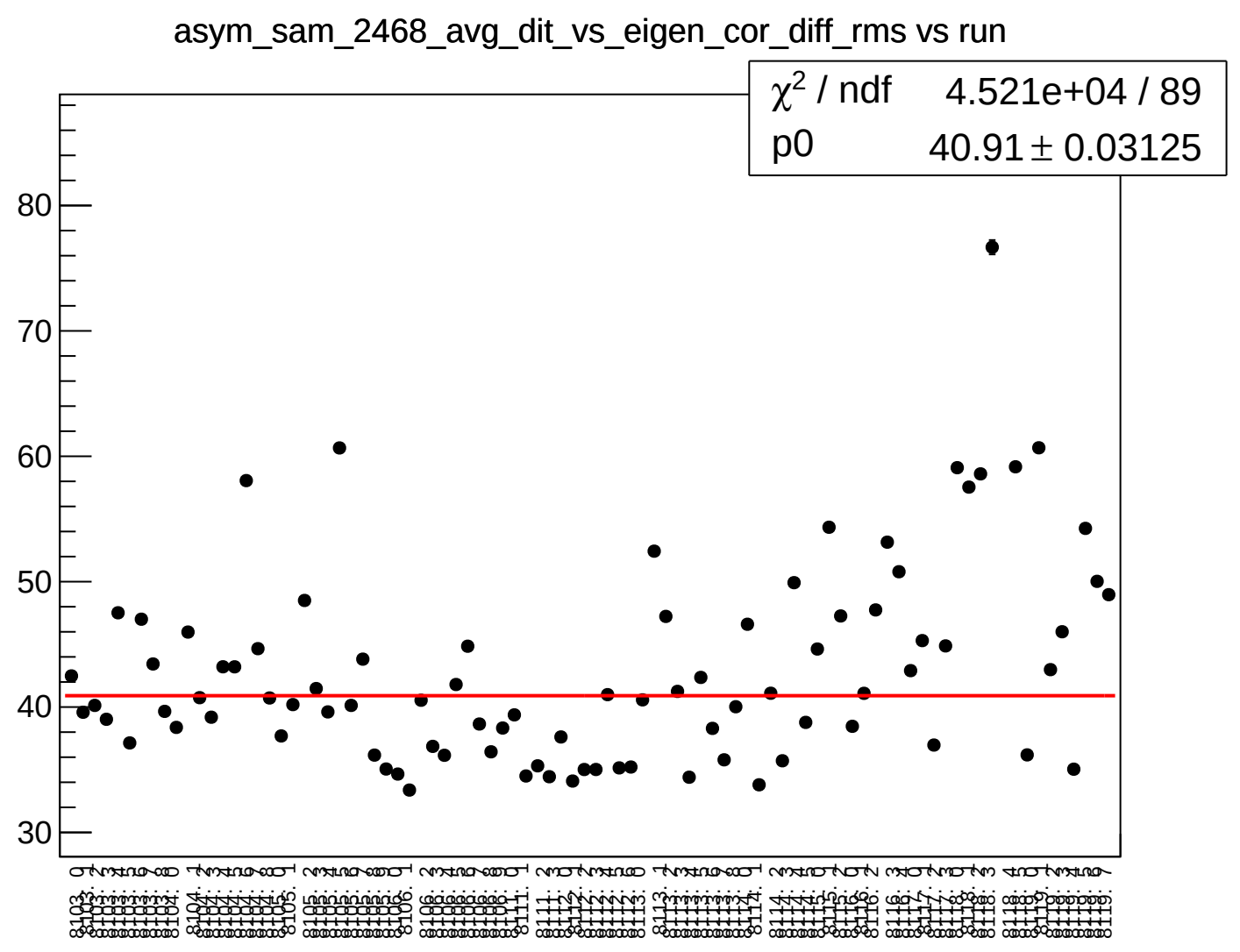

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.43 / 89
p0 −0.1029 ± 0.04419
pull
Entries 90
Mean 134.1
Std Dev 0

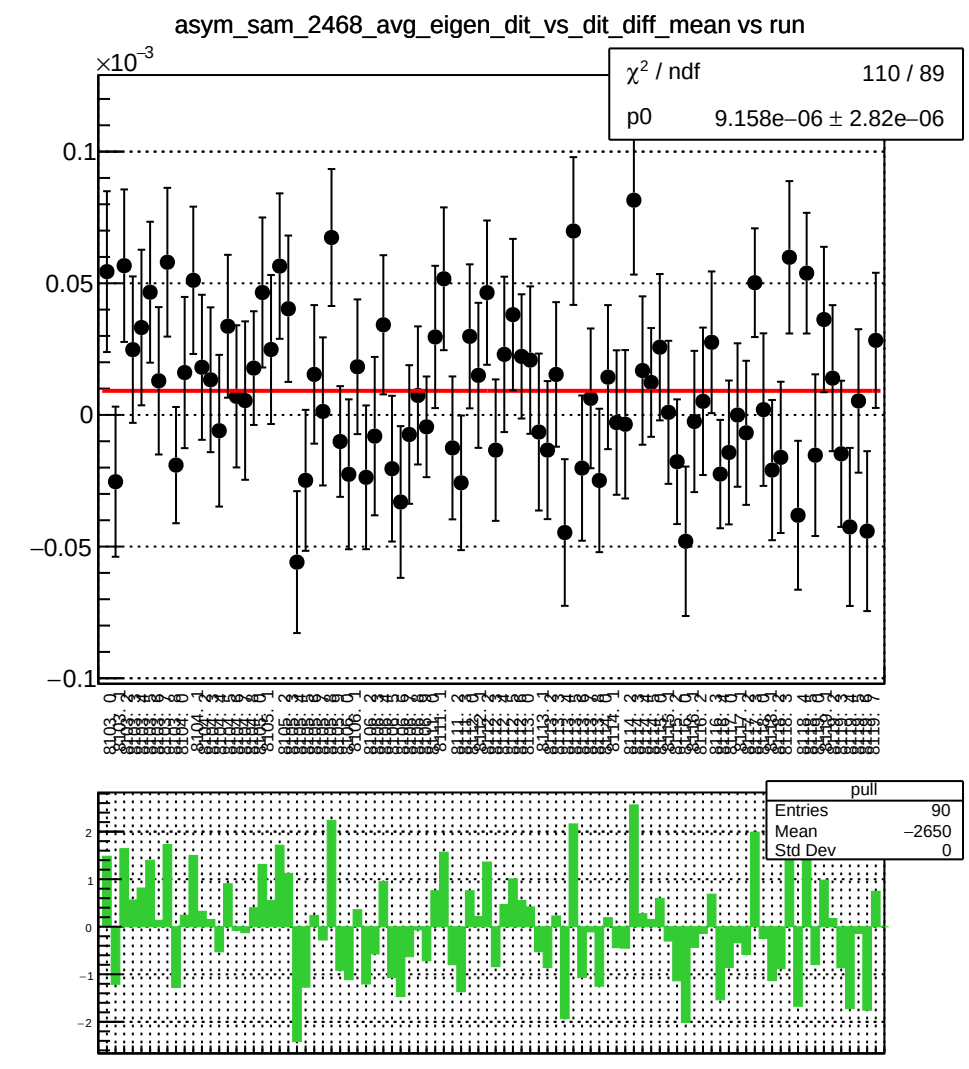

pull1D
Entries 90
Mean −0.02527
Std Dev 0.9391

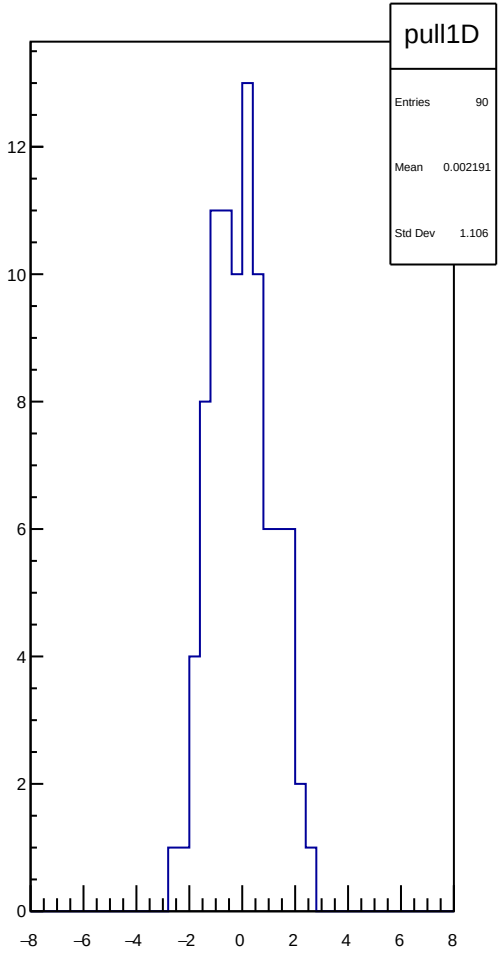

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.521e+04 / 89
p0 40.91 ± 0.03125
80
70
60
50
40
30

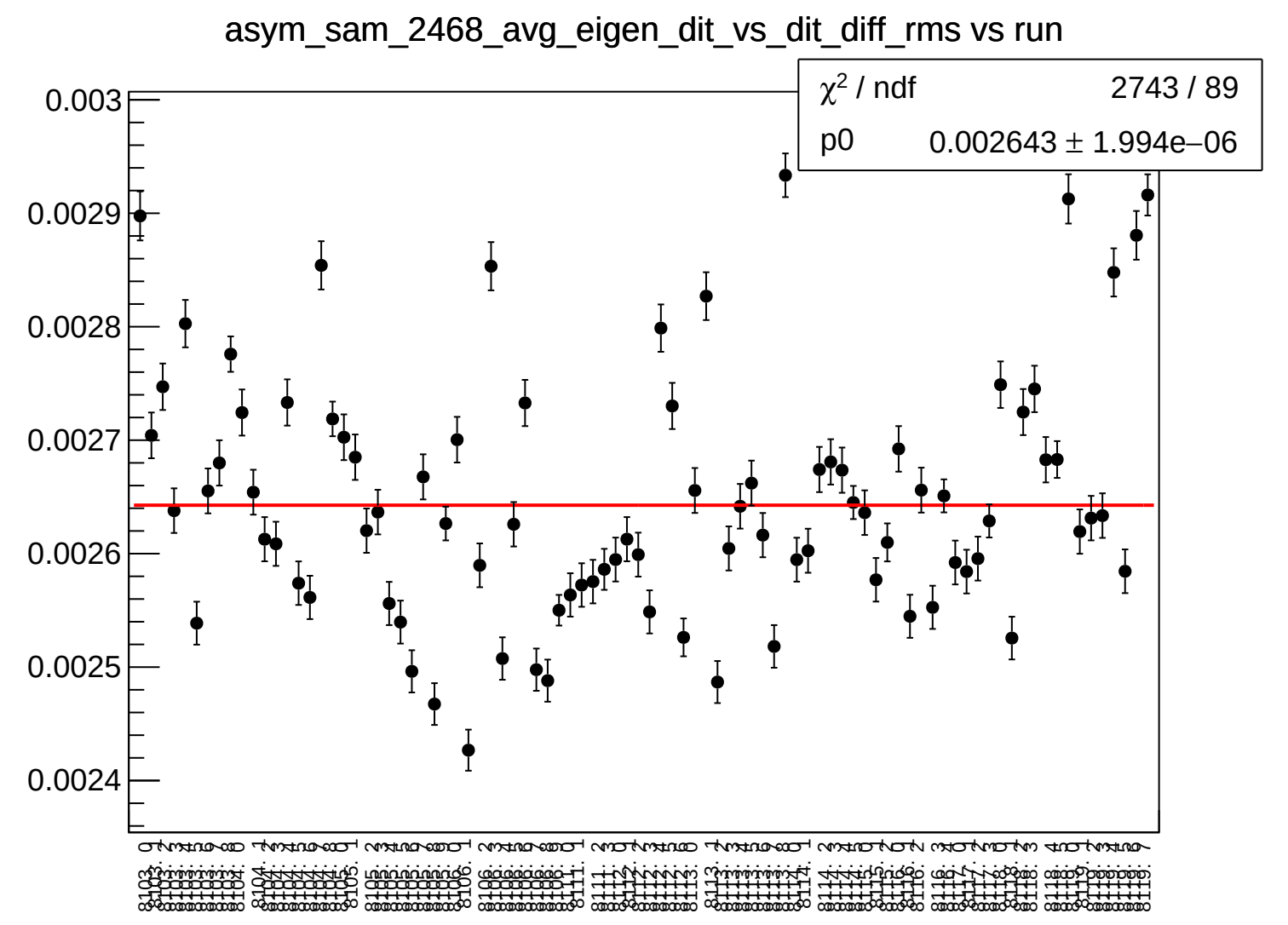

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.43 / 89
p0 −0.1029 ± 0.04419
pull
Entries 90
Mean 134.1
Std Dev 0

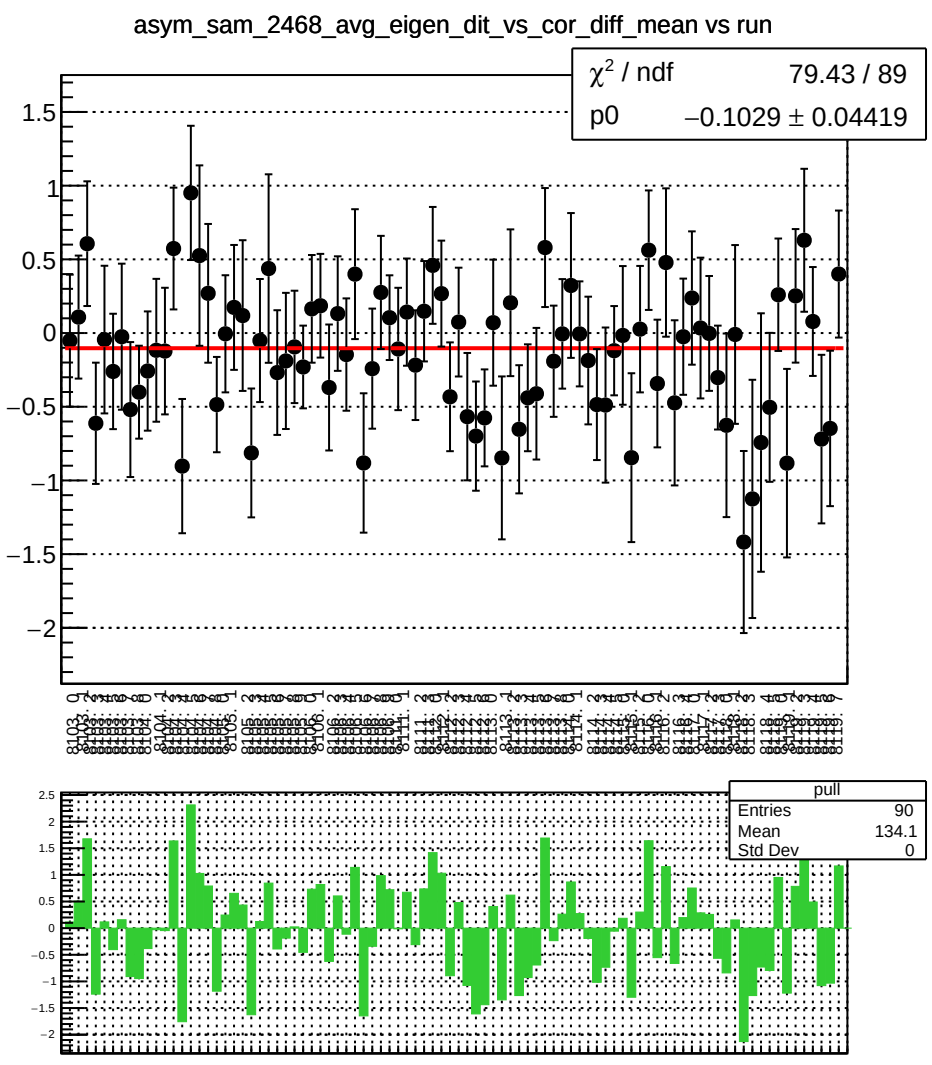

pull1D
Entries 90
Mean −0.02527
Std Dev 0.9391

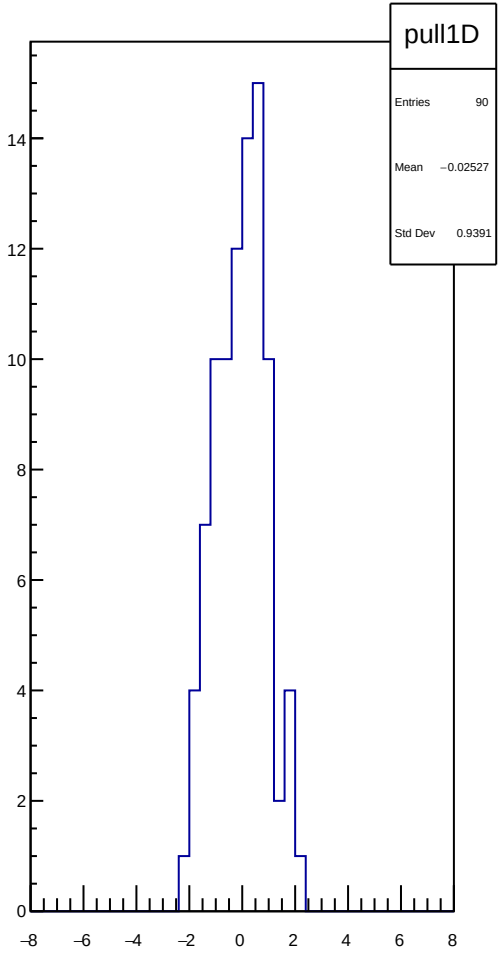

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.521e+04 / 89
p0 40.91 ± 0.03125
80
70
60
50
40
30

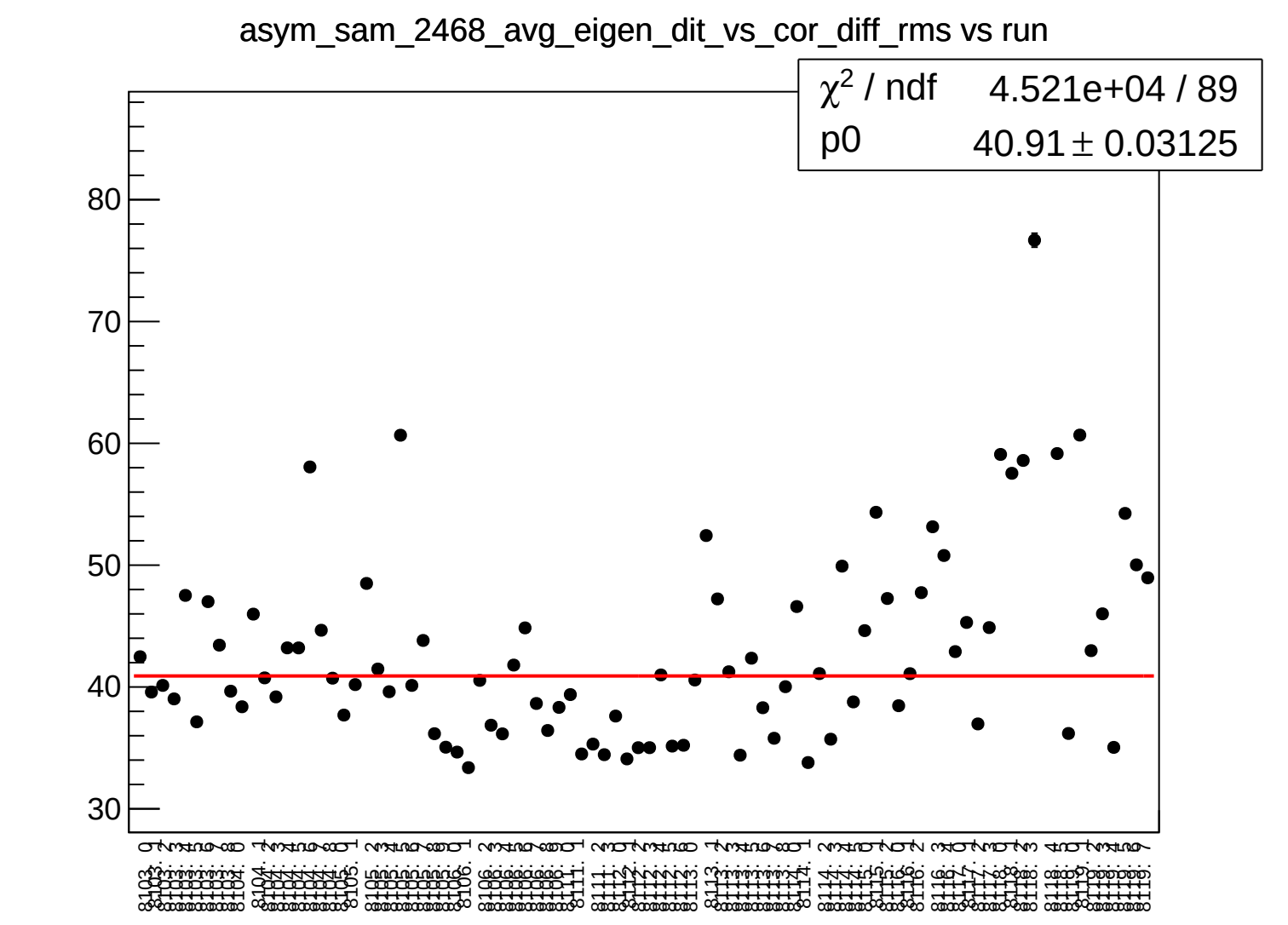

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 110 / 89
p0 9.158e−06 ± 0.00282e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 90
Mean −2650
Std Dev 0
2
1
0
−1
−2

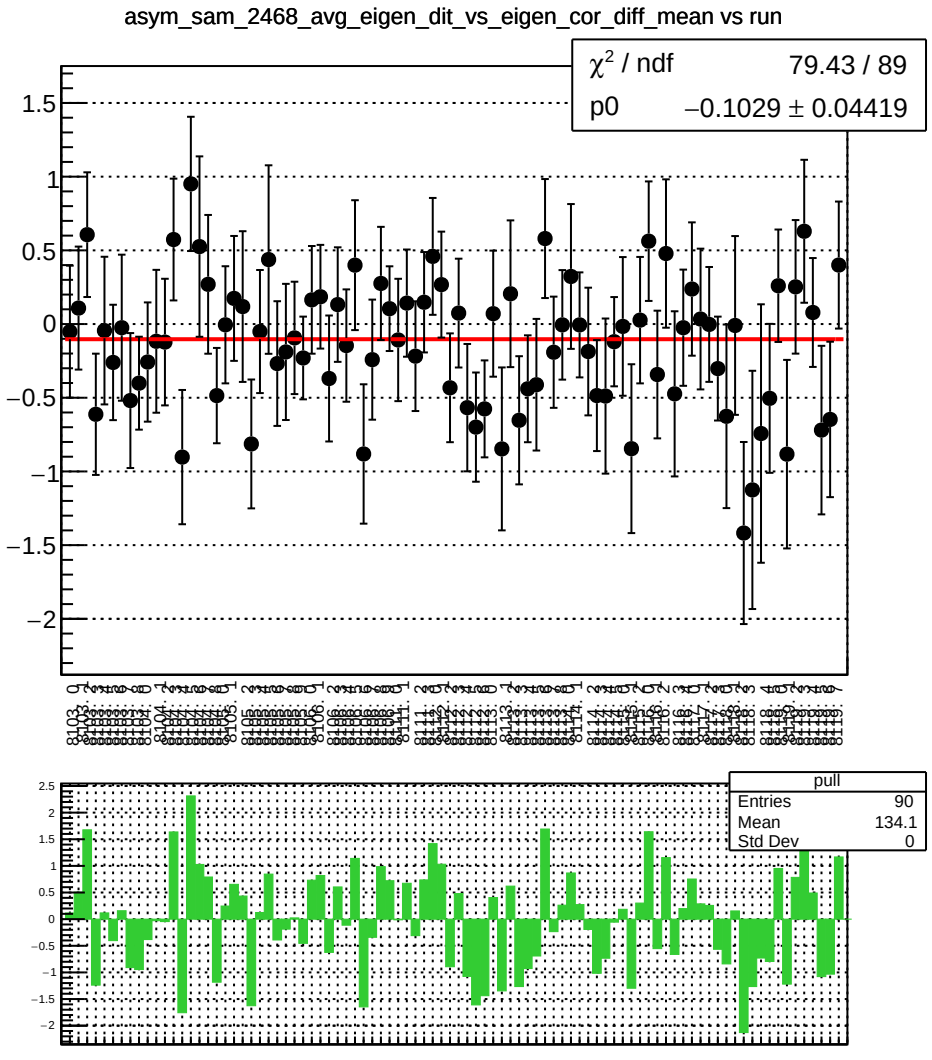

pull1D
Entries 90
Mean 0.002191
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

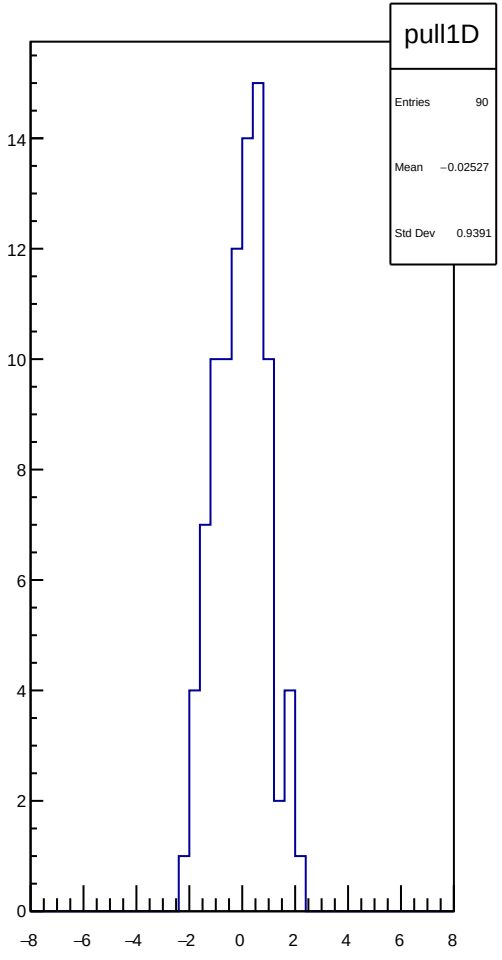

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2743 / 89
p0 0.002643 ± 1.994e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

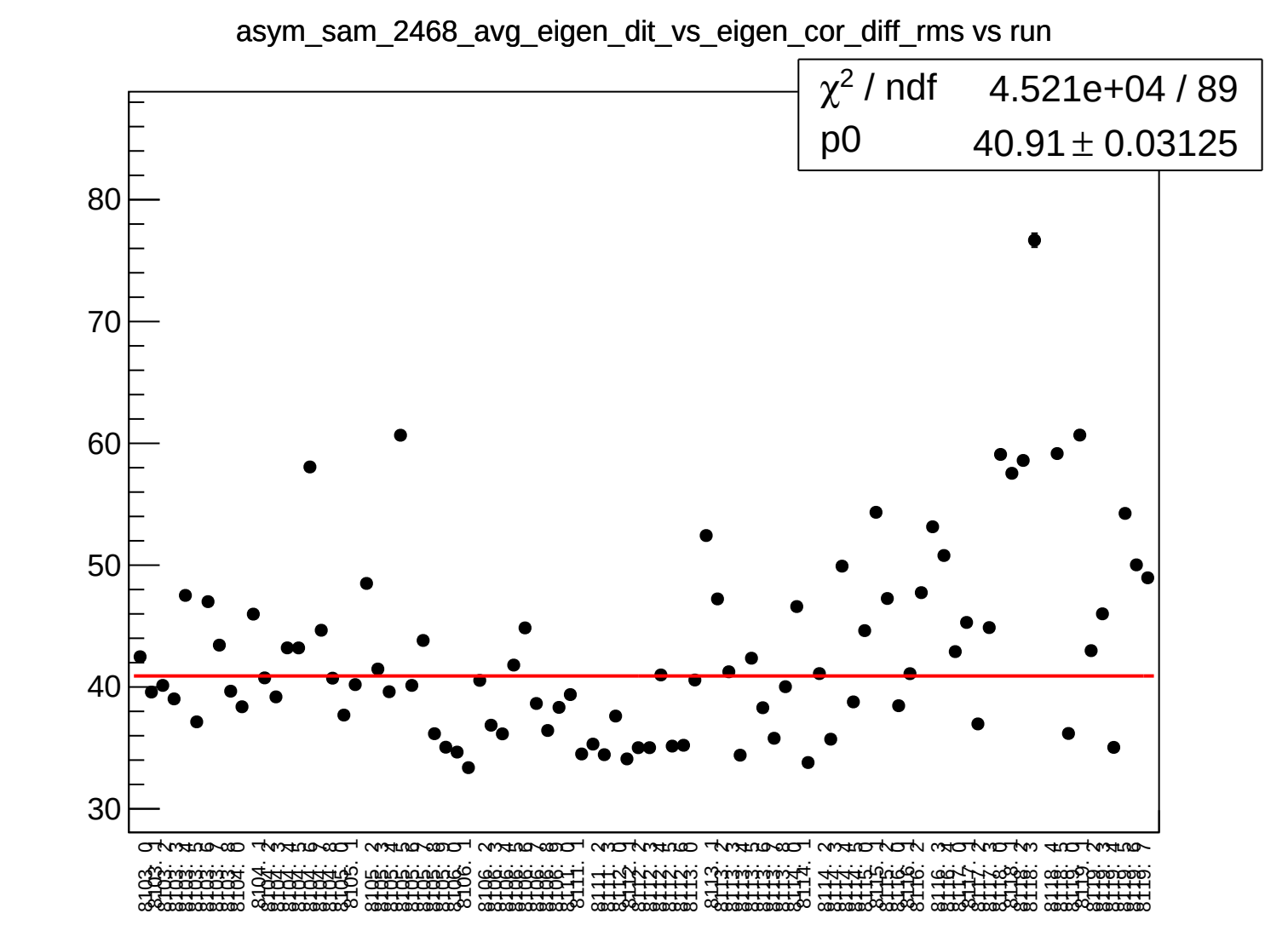

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.43 / 89
p0 −0.1029 ± 0.04419
pull
Entries 90
Mean 134.1
Std Dev 0

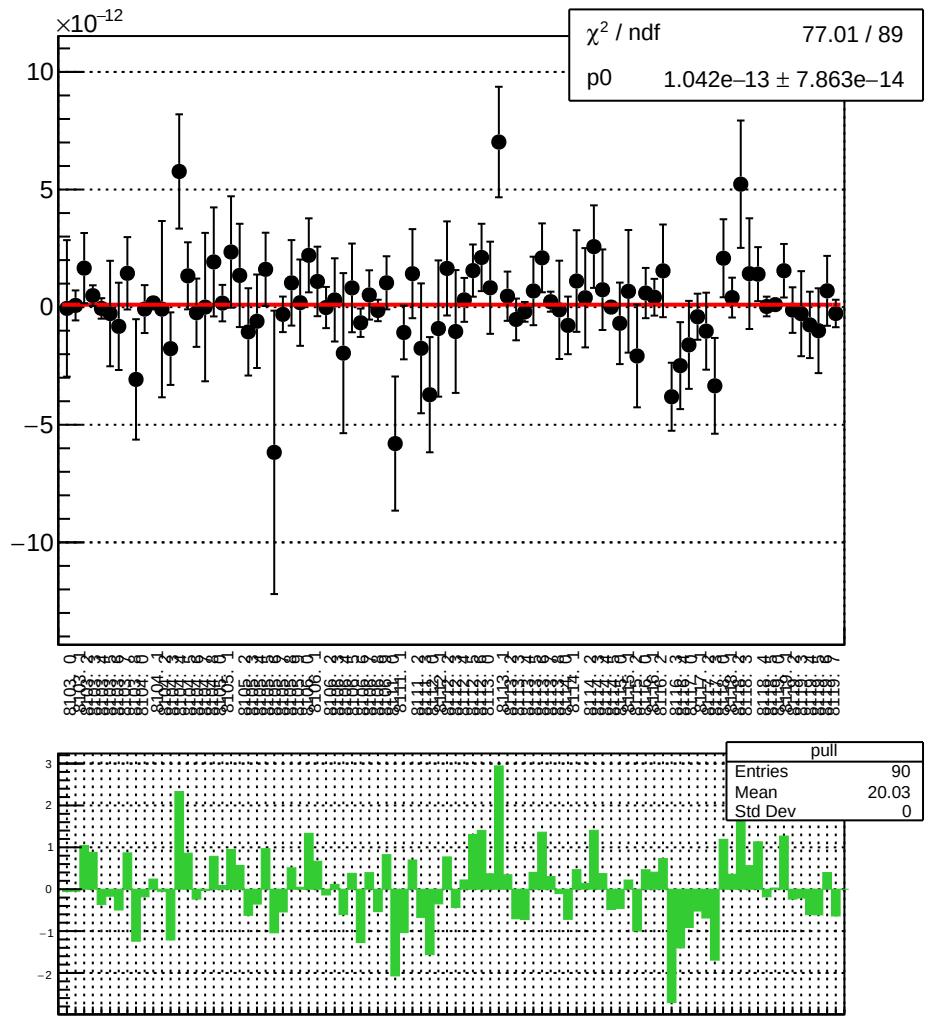

pull1D
Entries 90
Mean −0.02527
Std Dev 0.9391

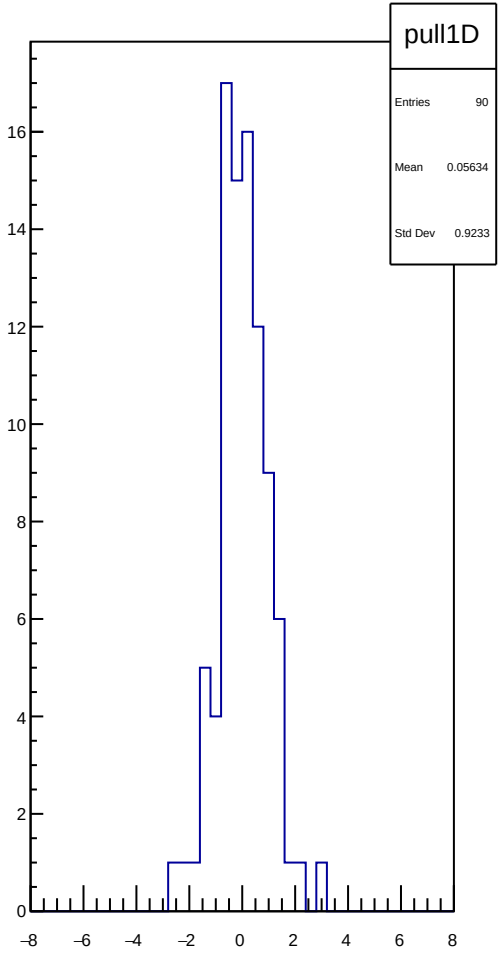

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.521e+04 / 89
p0 40.91 ± 0.03125
80
70
60
50
40
30

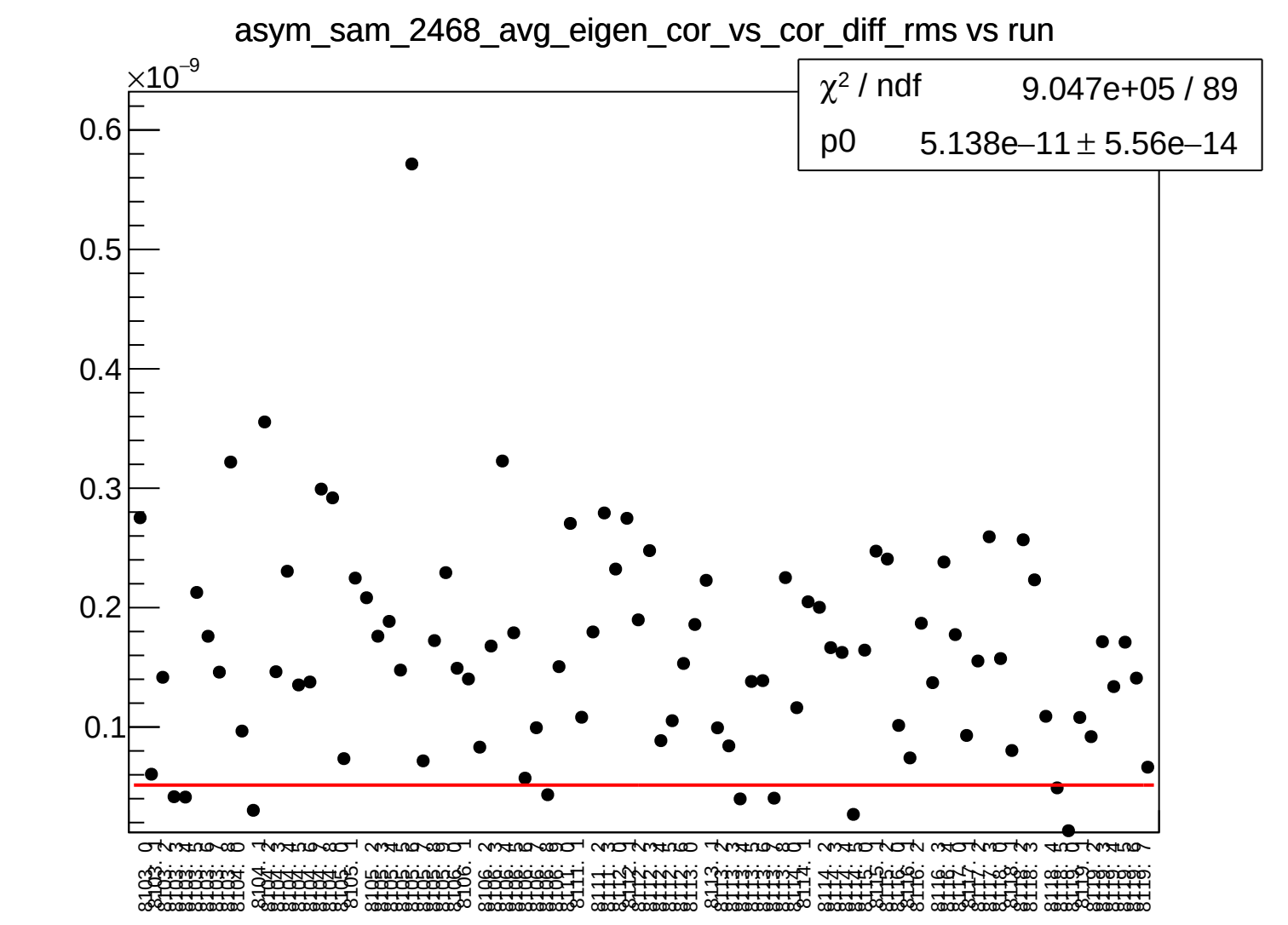

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.43 / 89
p0 −0.1029 ± 0.04419
pull
Entries 90
Mean 134.1
Std Dev 0

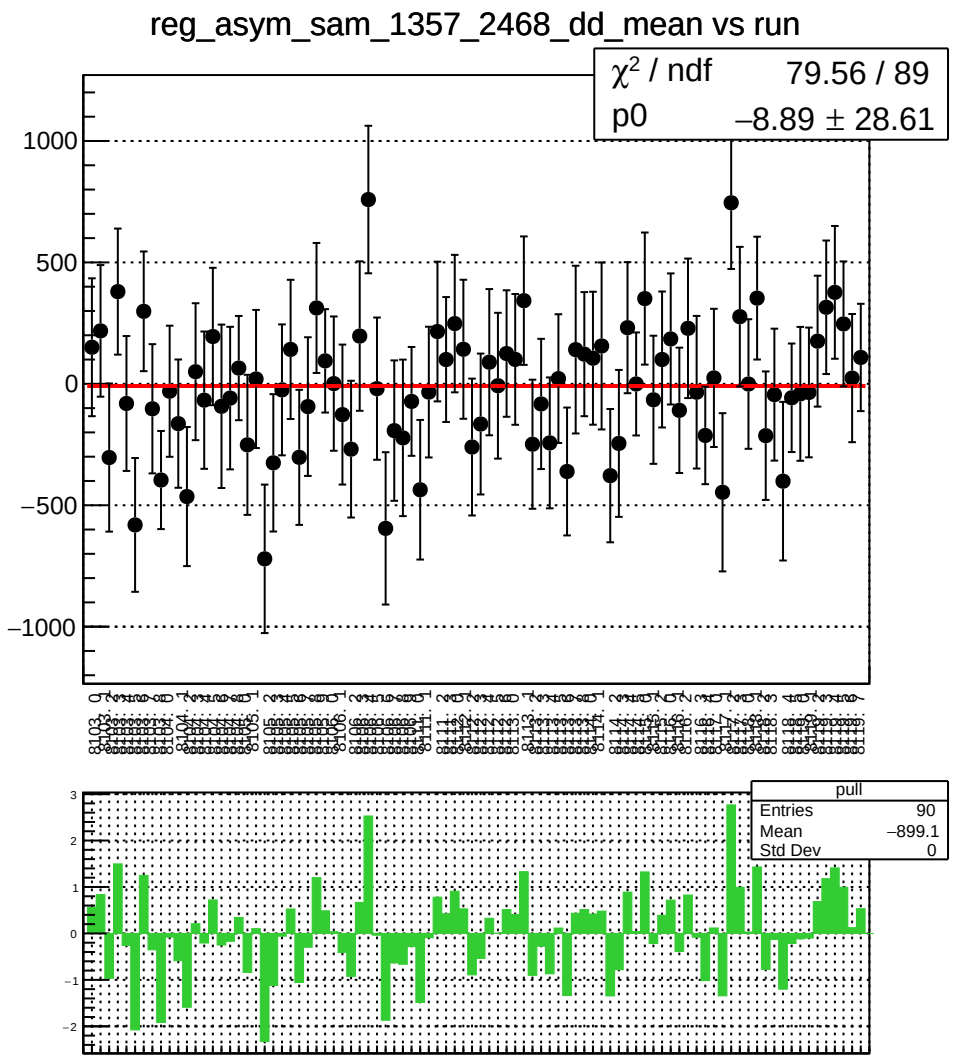

pull1D
Entries 90
Mean −0.02527
Std Dev 0.9391

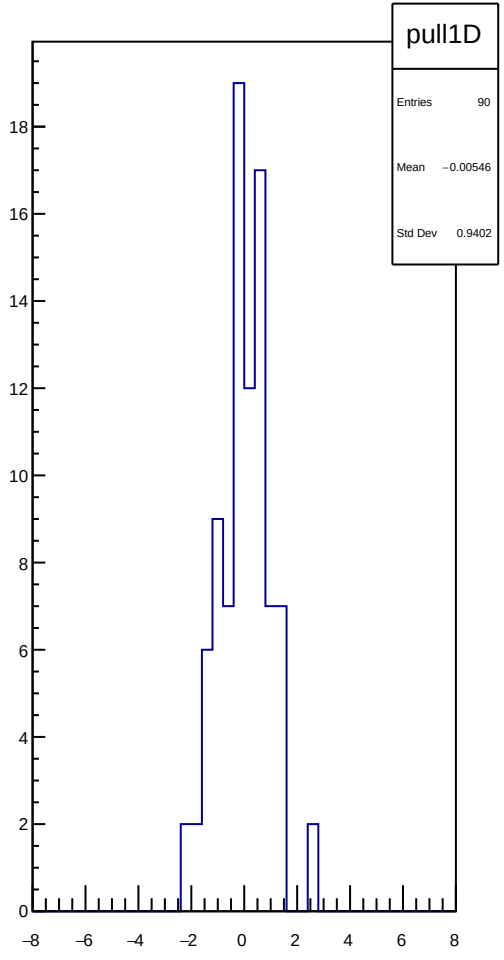

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.521e+04 / 89
p0 40.91 ± 0.03125
80
70
60
50
40
30

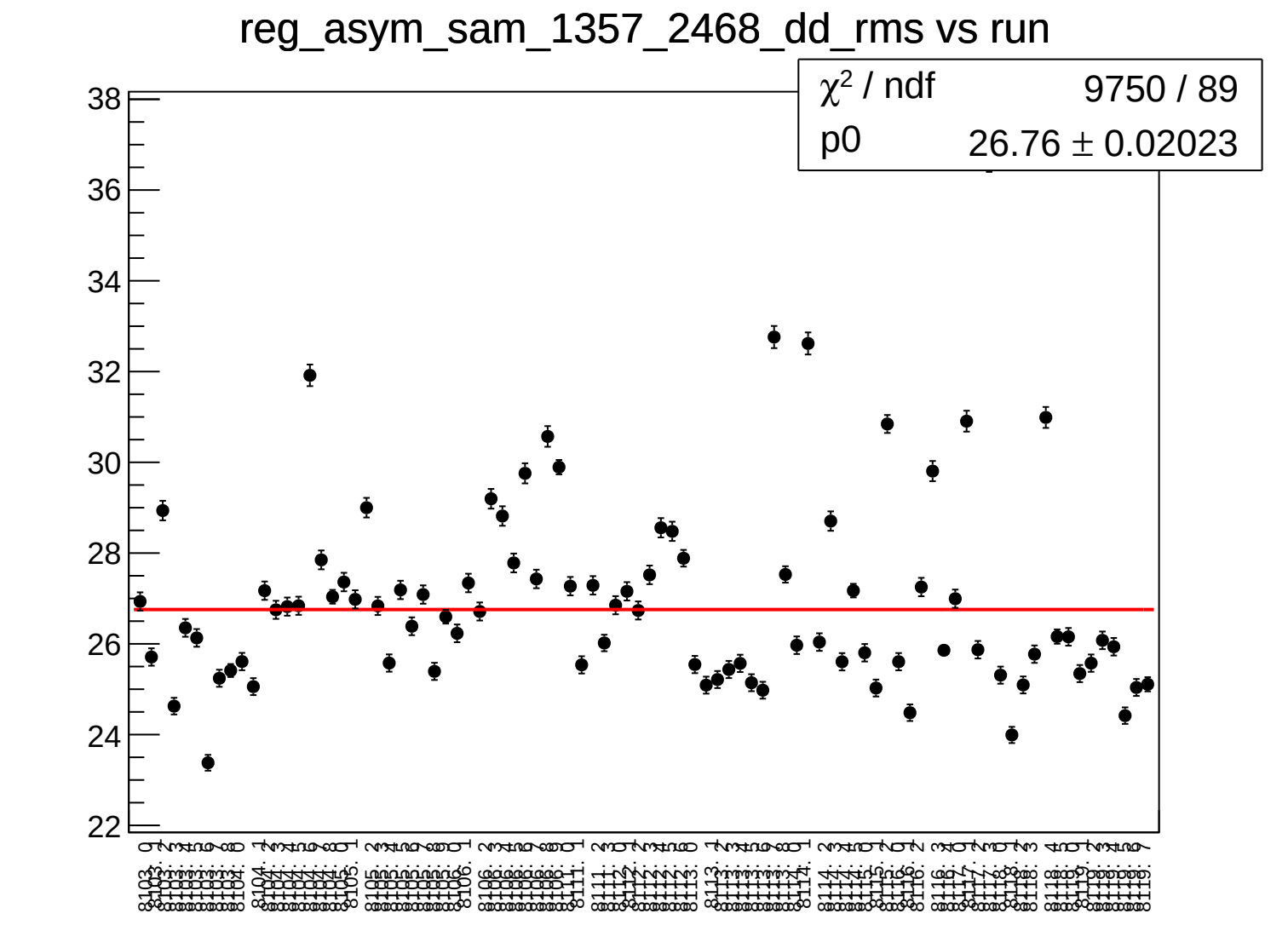

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.01 / 89
p0 1.042e−13 ± 7.863e−14
pull
Entries 90
Mean 20.03
Std Dev 0

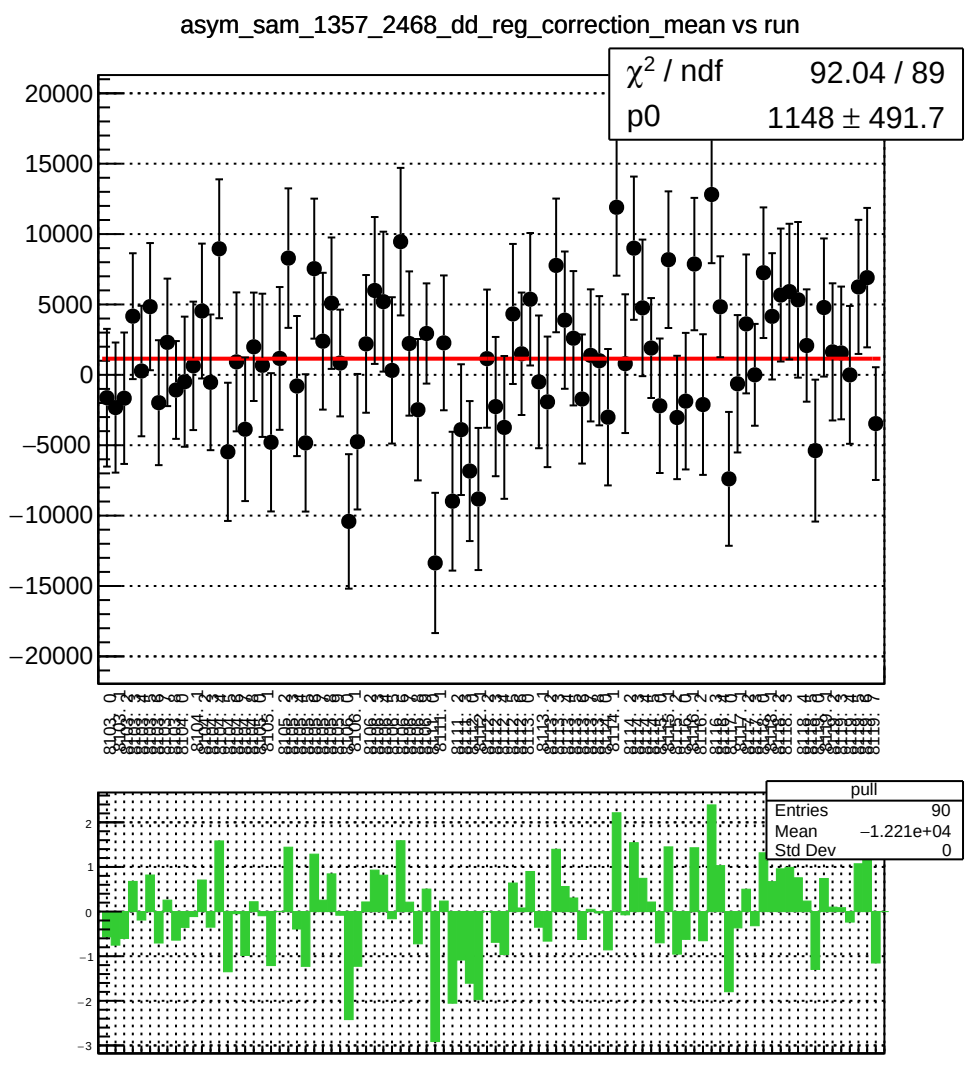

pull1D
Entries 90
Mean 0.05634
Std Dev 0.9233

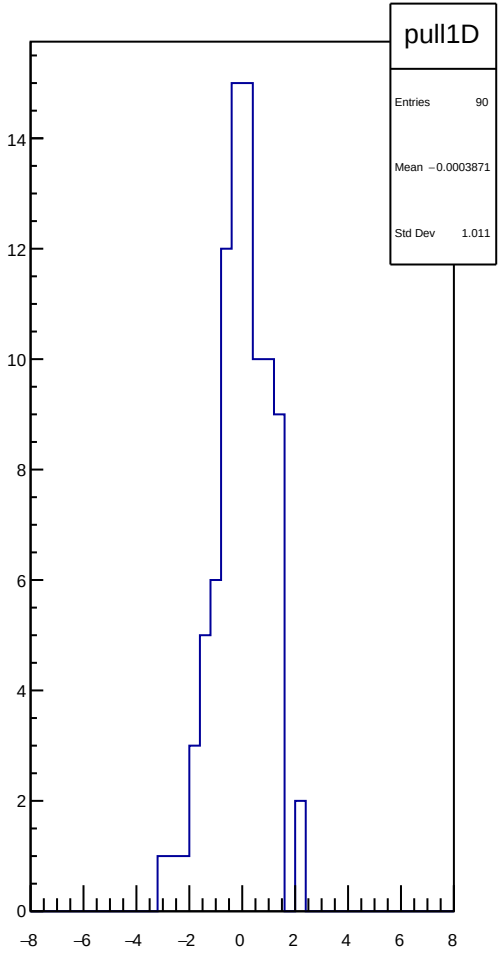

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.047e+05 / 89
p0 5.138e−11 ± 5.56e−14
0.6
0.5
0.4
0.3
0.2
0.1

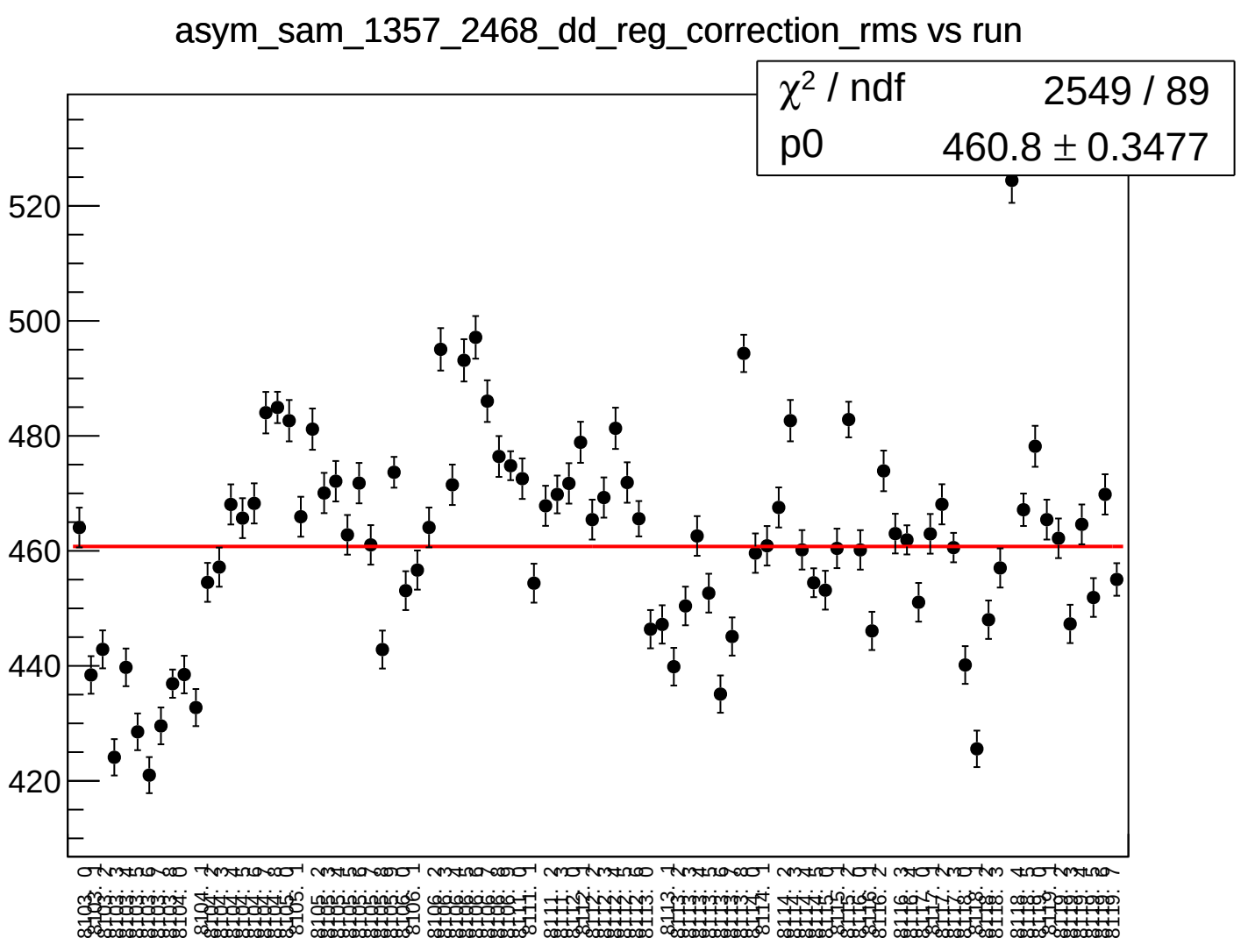

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.56 / 89
p0 −8.89 ± 28.61
1000
500
0
−500
−1000
pull
Entries 90
Mean −899.1
Std Dev 0
3
2
1
0
−1
−2

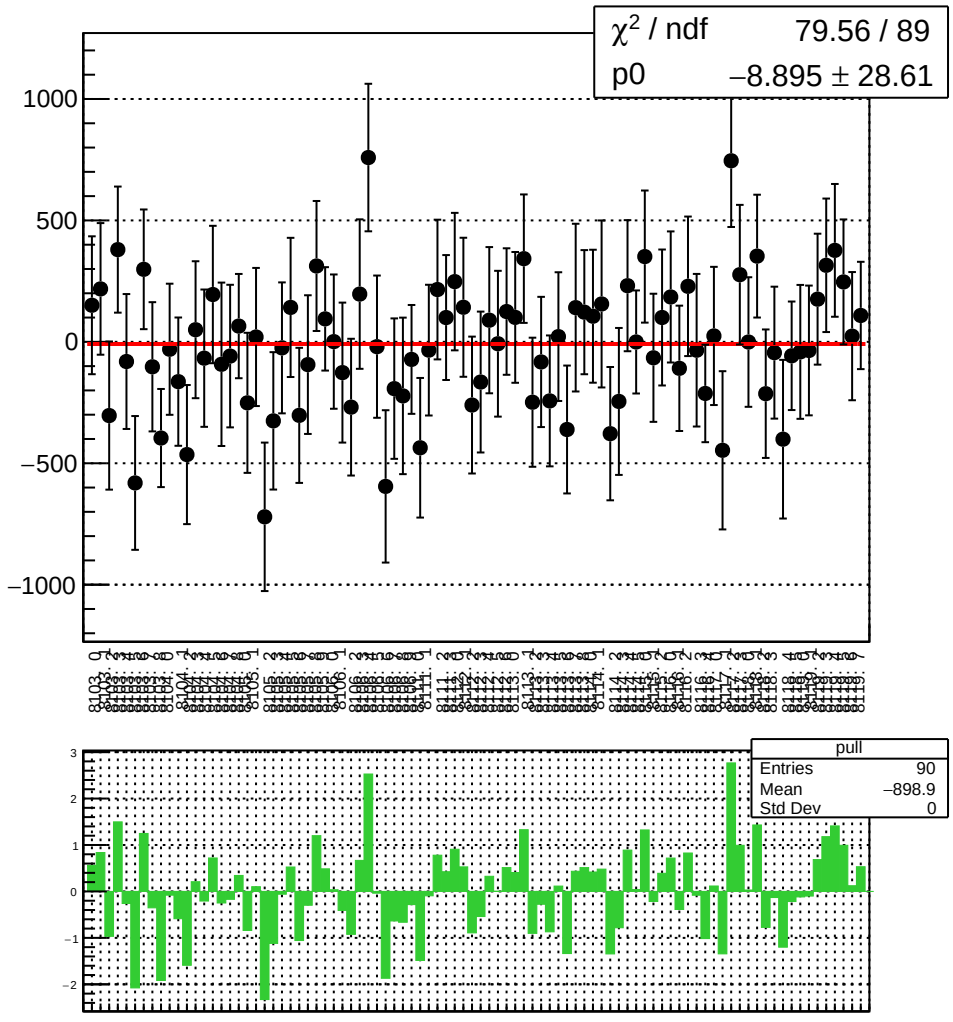

pull1D
Entries 90
Mean −0.00546
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

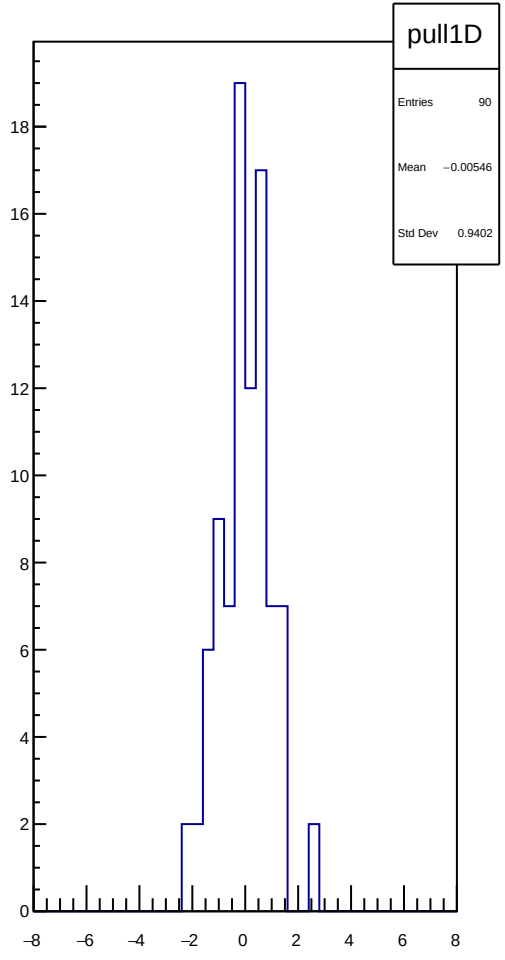

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9750 / 89
p0 26.76 ± 0.02023
38
36
34
32
30
28
26
24
22

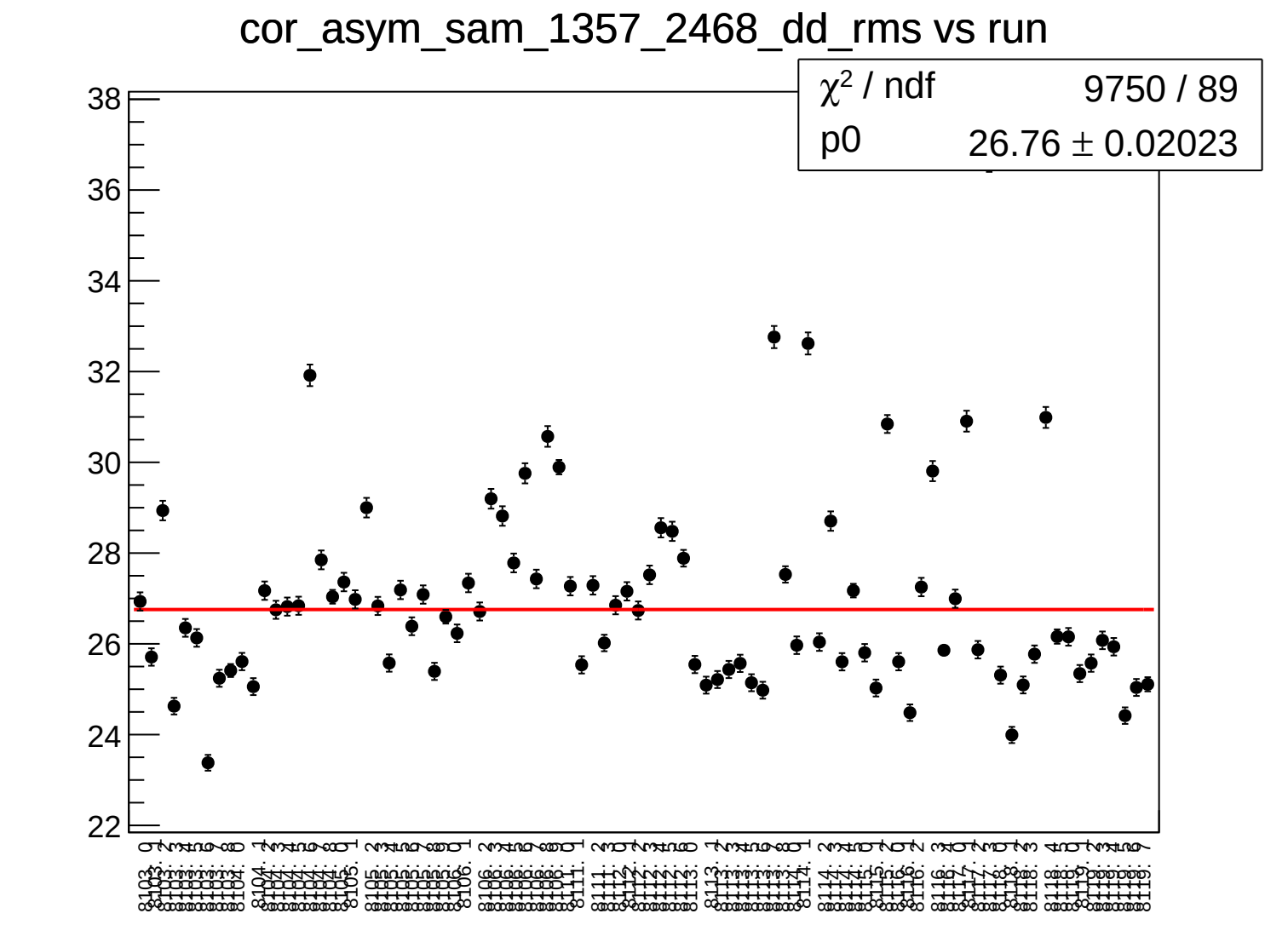

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 92.04 / 89
p0 1148 ± 491.7
pull
Entries 90
Mean −1.221e+04
Std Dev 0

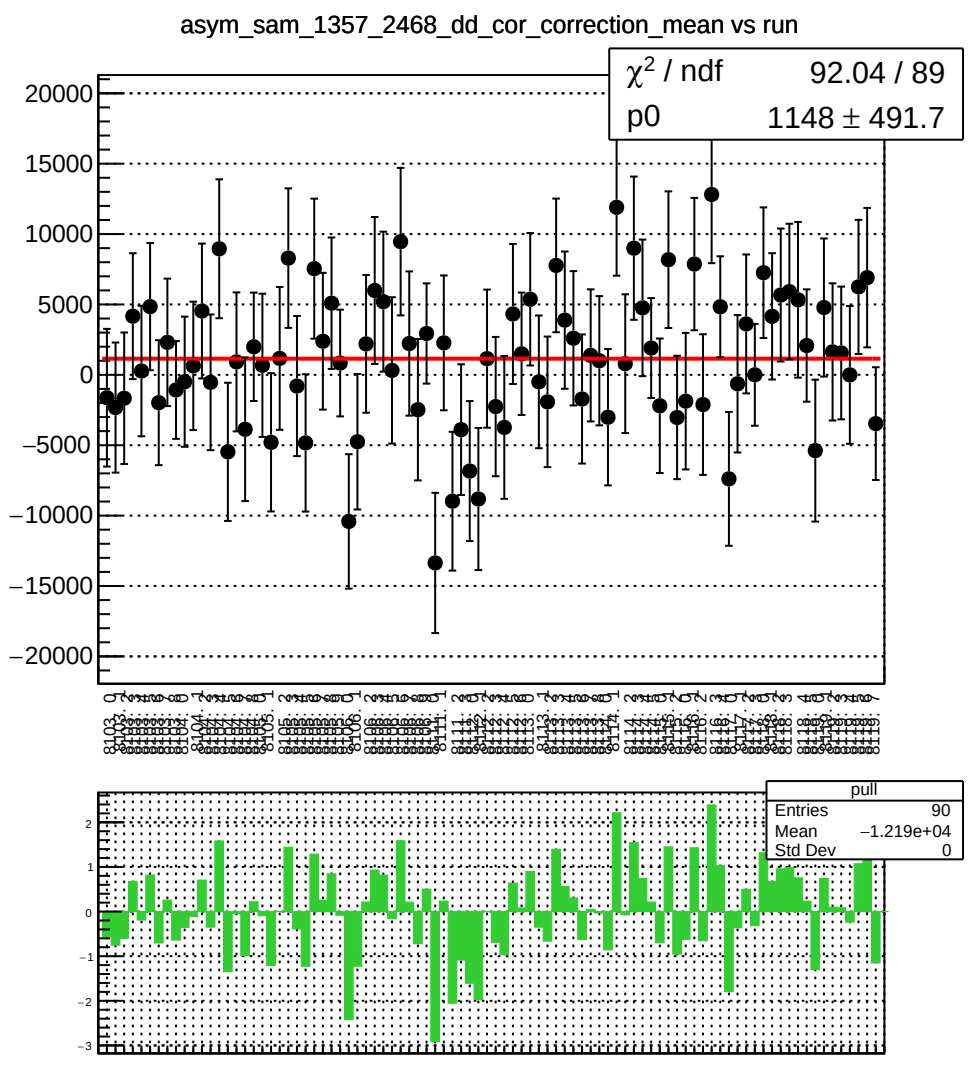

pull1D
Entries 90
Mean −0.0003871
Std Dev 1.011

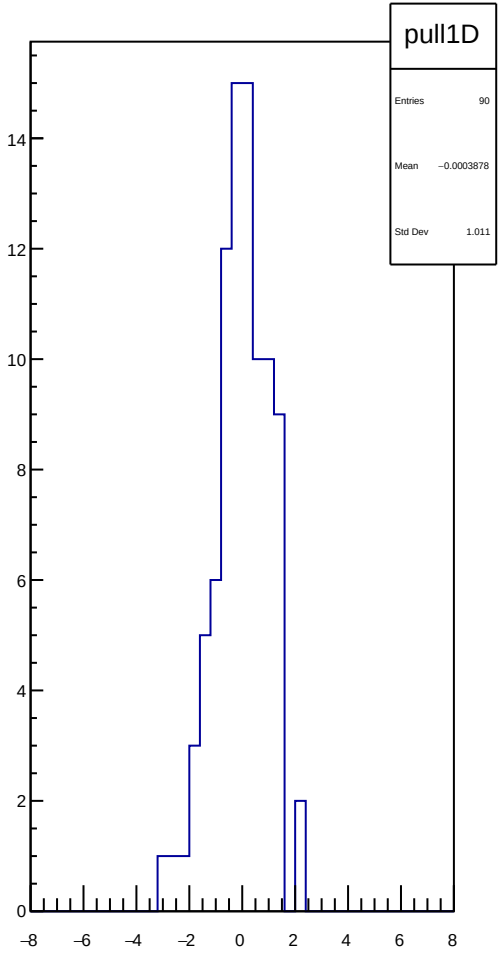

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2549 / 89
p0 460.8 ± 0.3477
520
500
480
460
440
420

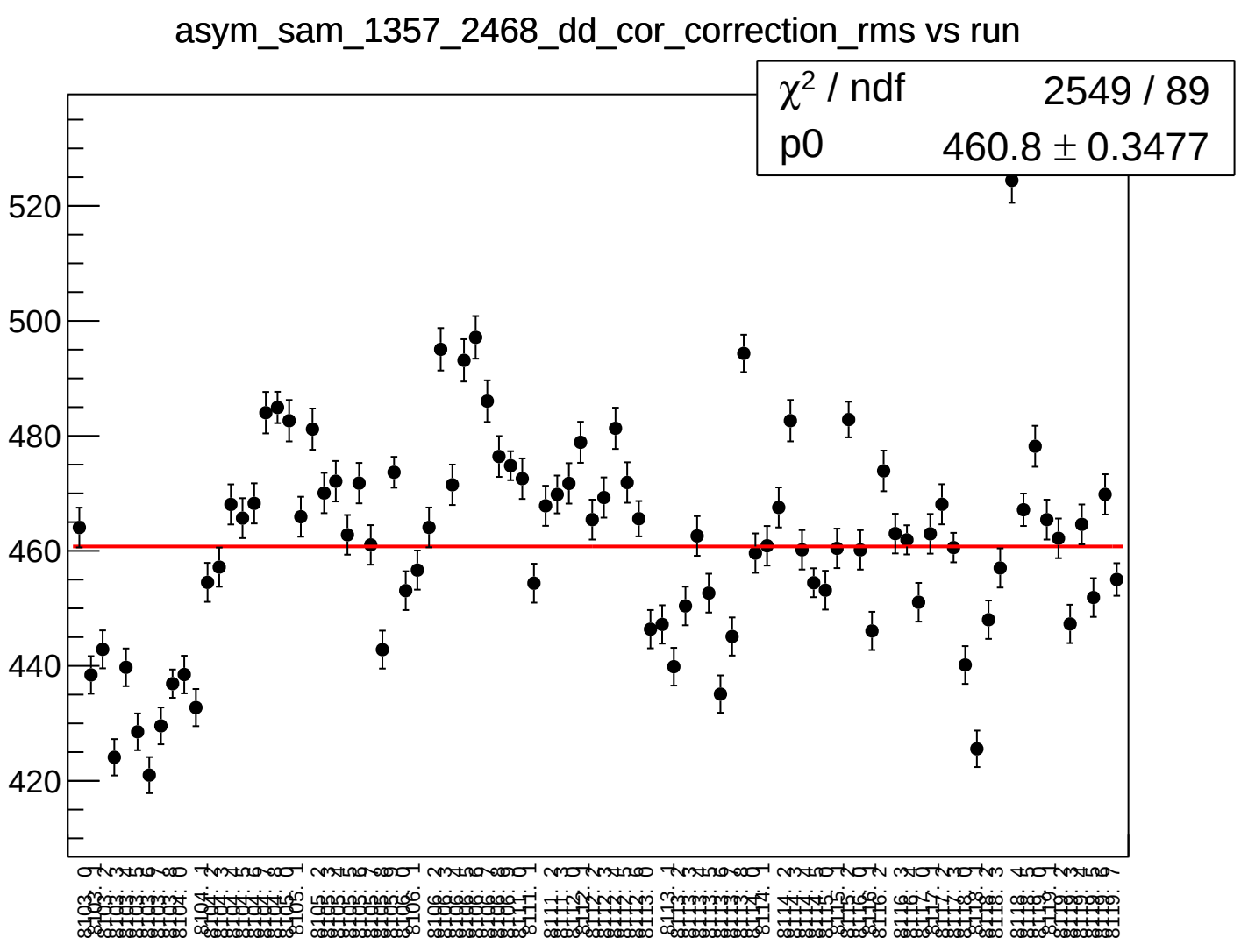

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.56 / 89
p0 −8.895 ± 28.61
1000
500
0
−500
−1000
pull
Entries 90
Mean −898.9
Std Dev 0
3
2
1
0
−1
−2

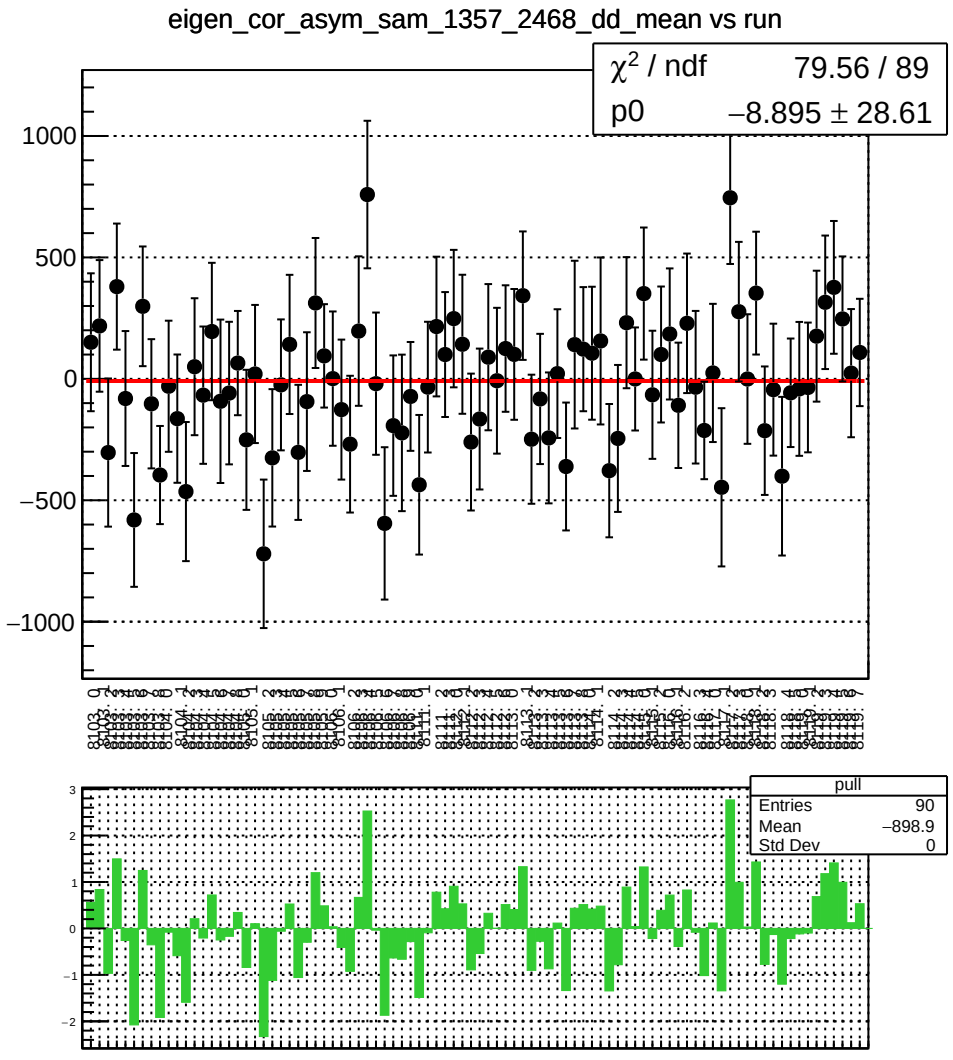

pull1D
Entries 90
Mean −0.00546
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

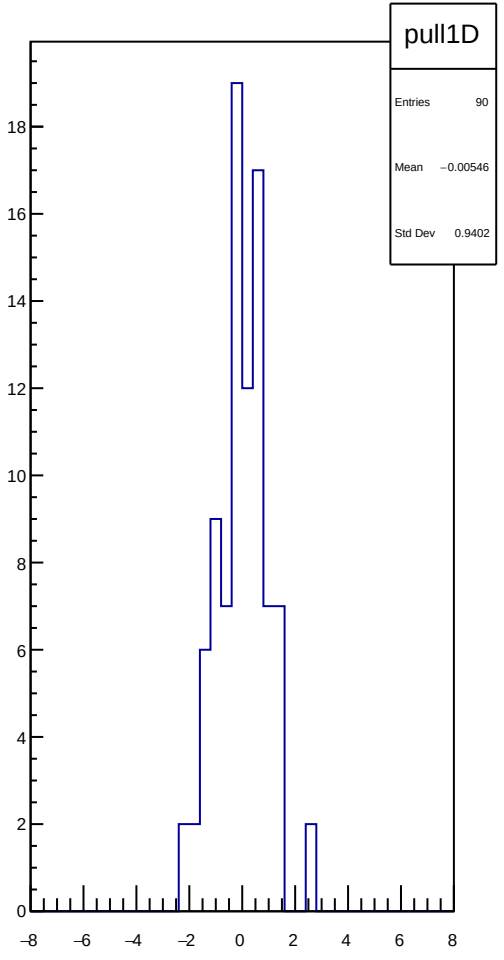

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9750 / 89
p0 26.76 ± 0.02023
38
36
34
32
30
28
26
24
22

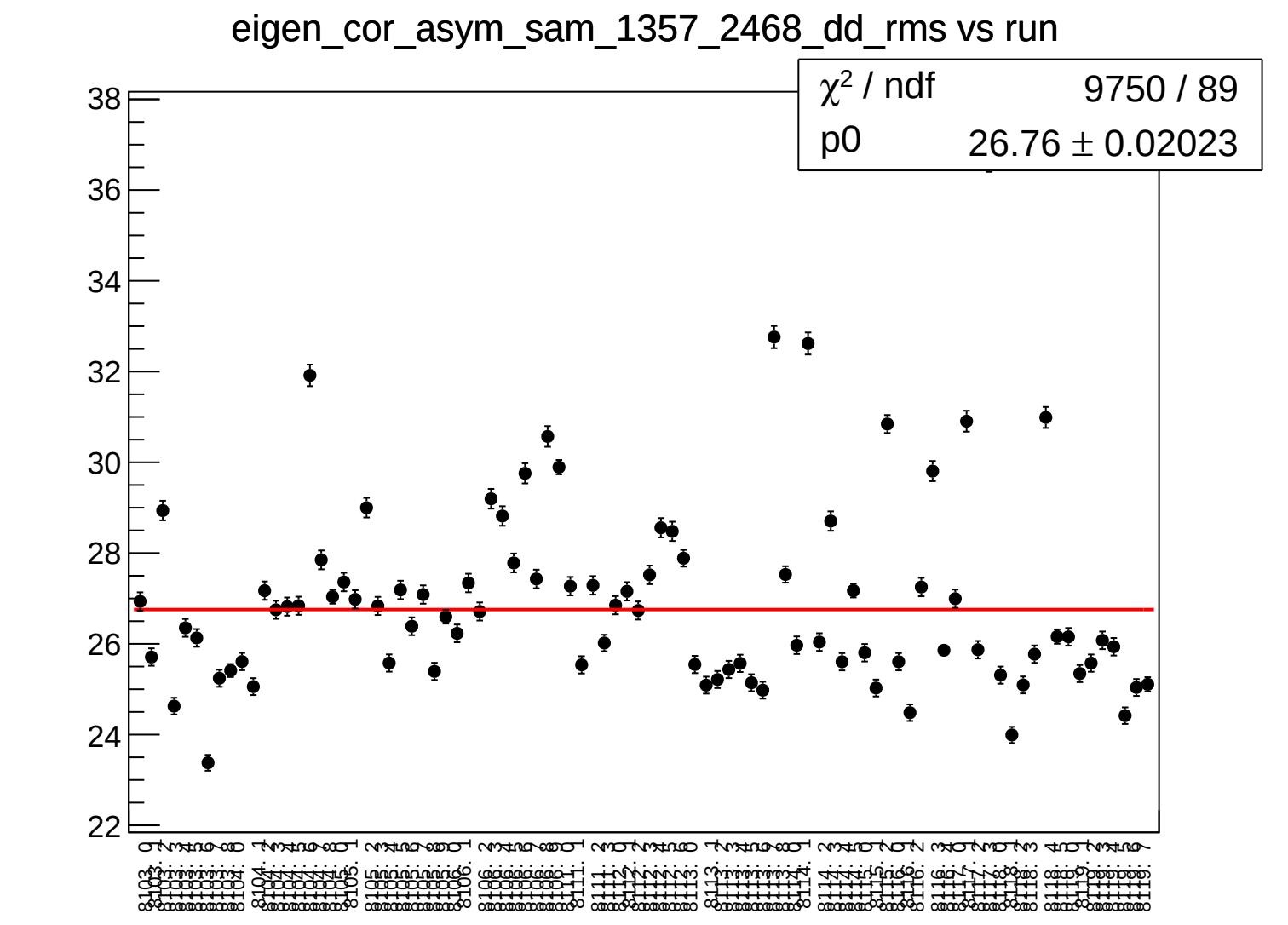

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 92.04 / 89
p0 1148 ± 491.7
pull
Entries 90
Mean −1.219e+04
Std Dev 0

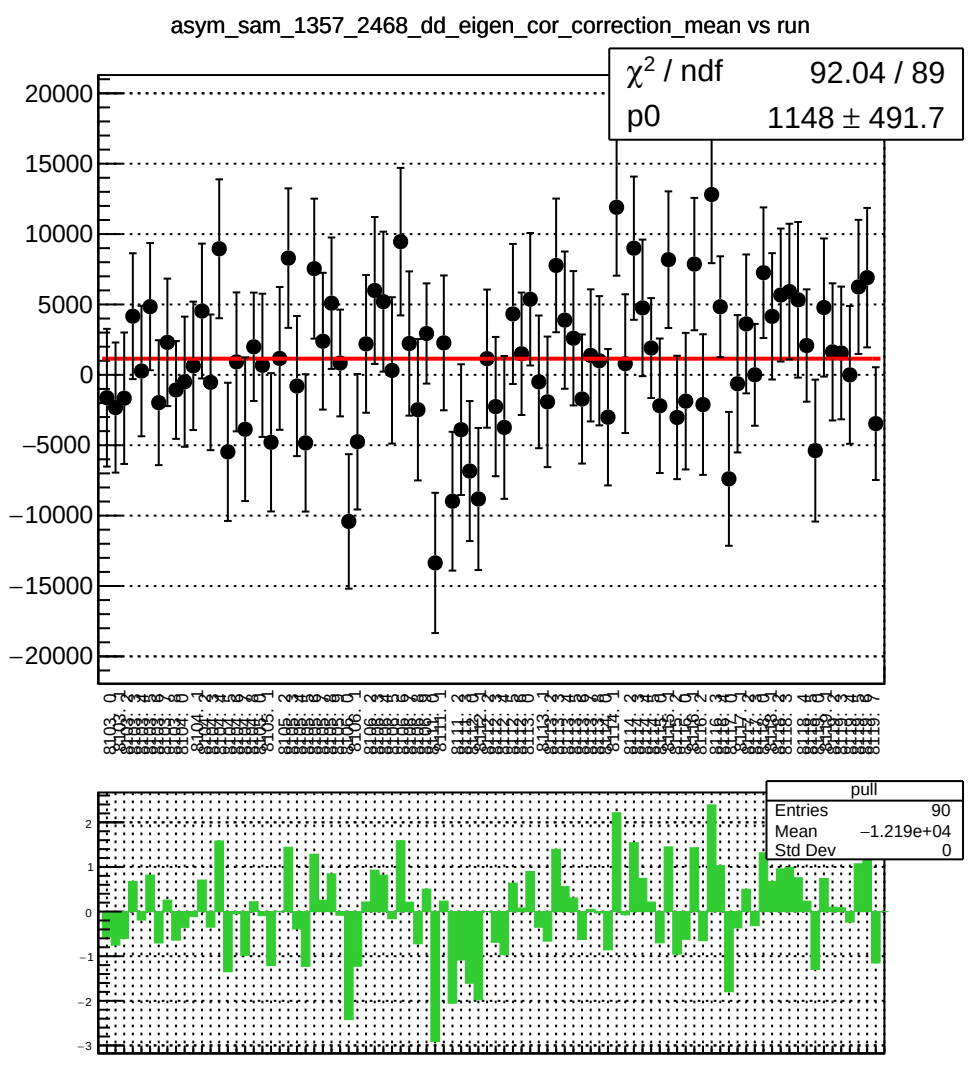

pull1D
Entries 90
Mean −0.0003878
Std Dev 1.011

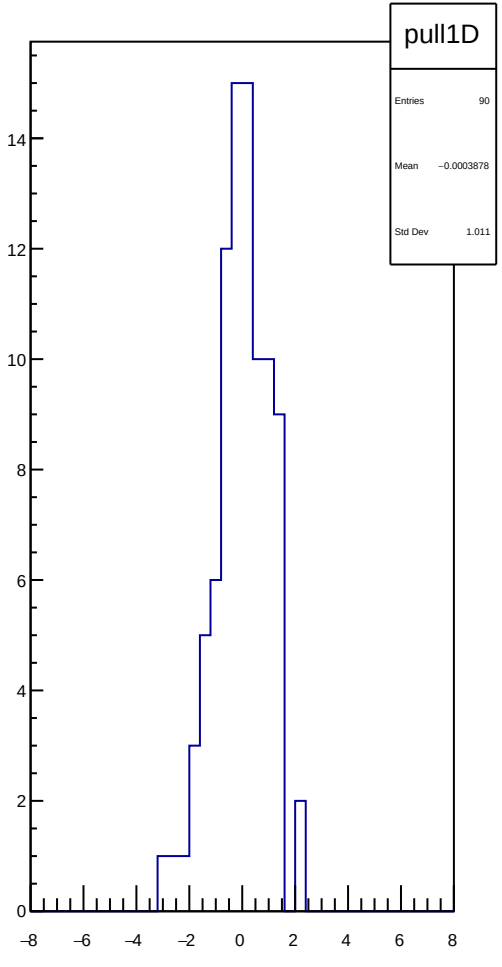

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2549 / 89
p0 460.8 ± 0.3477
520
500
480
460
440
420

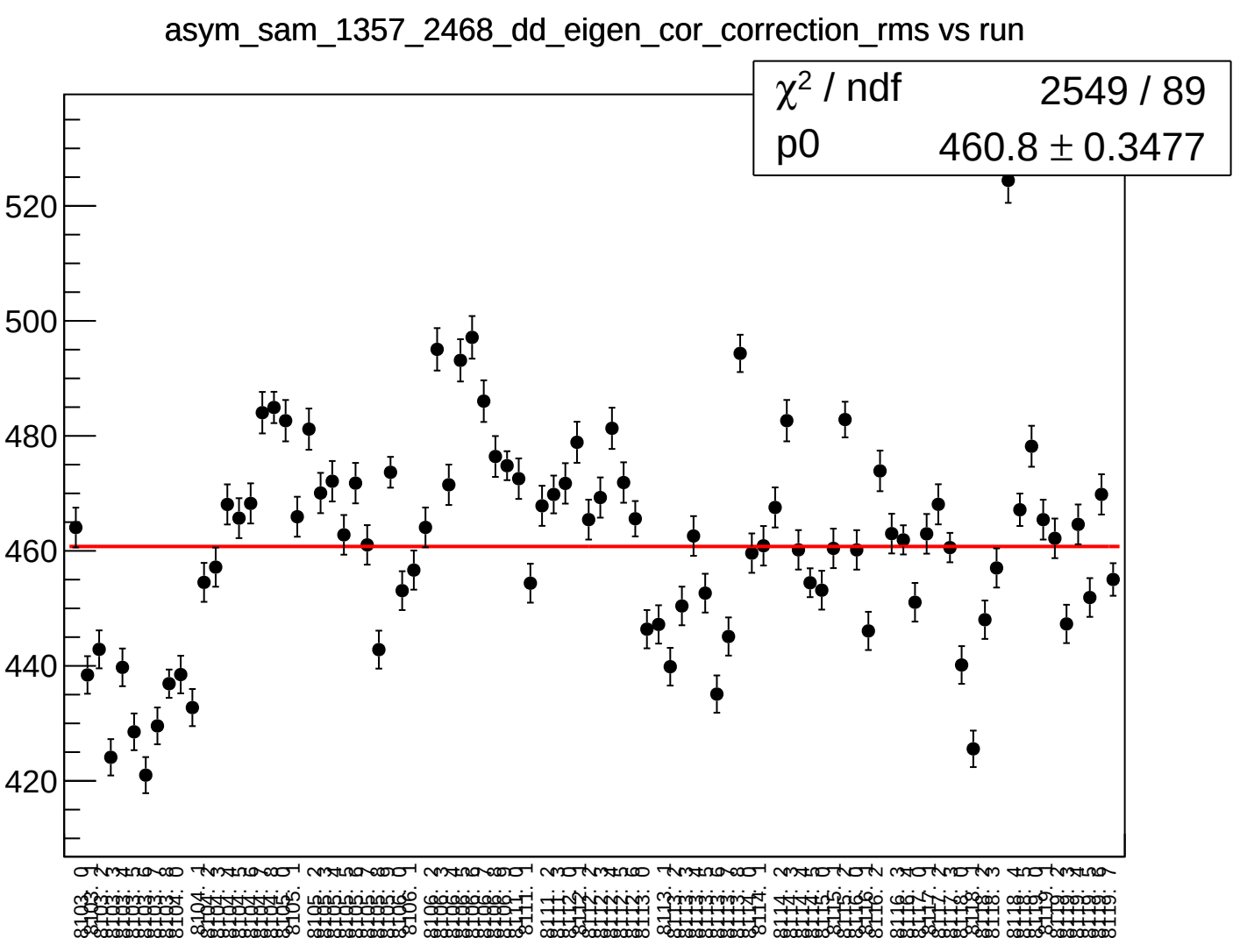

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.56 / 89
p0 −8.895 ± 28.61
1000
500
0
−500
−1000
pull
Entries 90
Mean −898.9
Std Dev 0
3
2
1
0
−1
−2

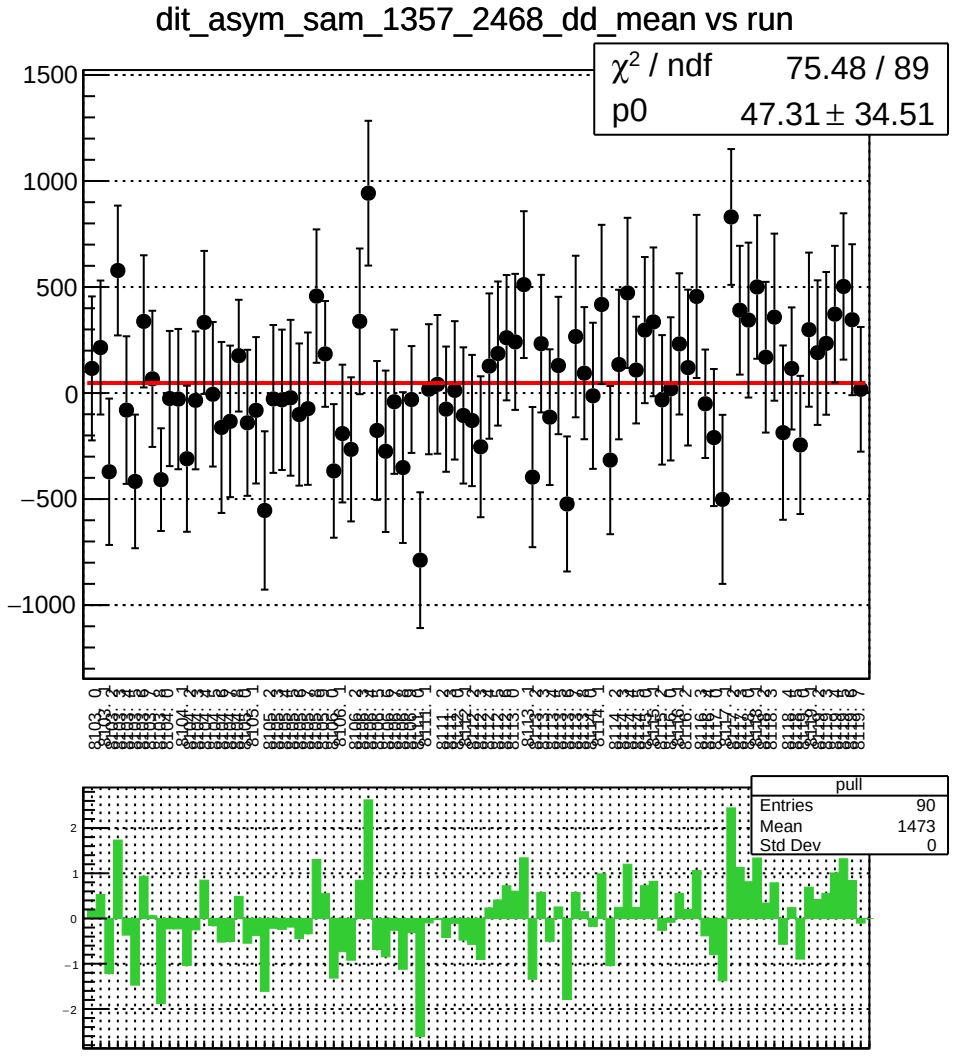

pull1D
Entries 90
Mean −0.00546
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

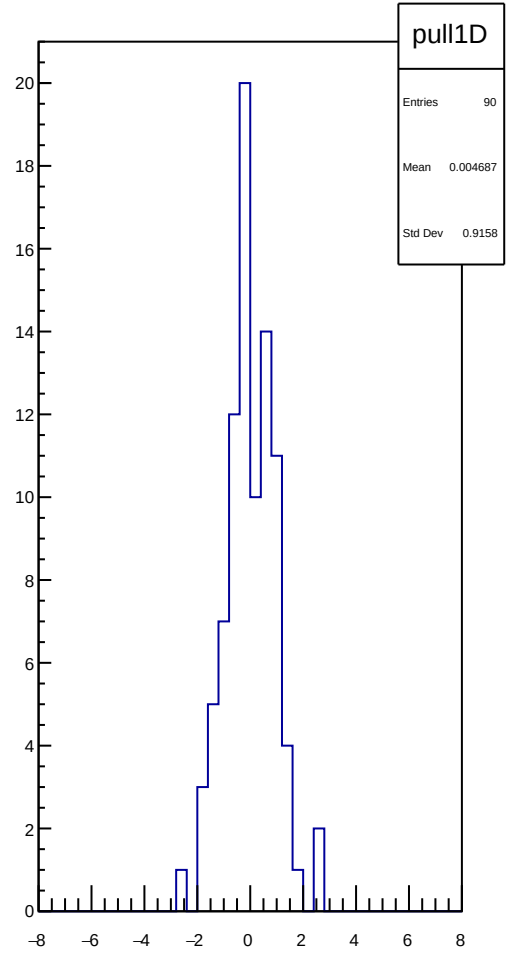

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 9750 / 89
p0 26.76 ± 0.02023
38
36
34
32
30
28
26
24
22

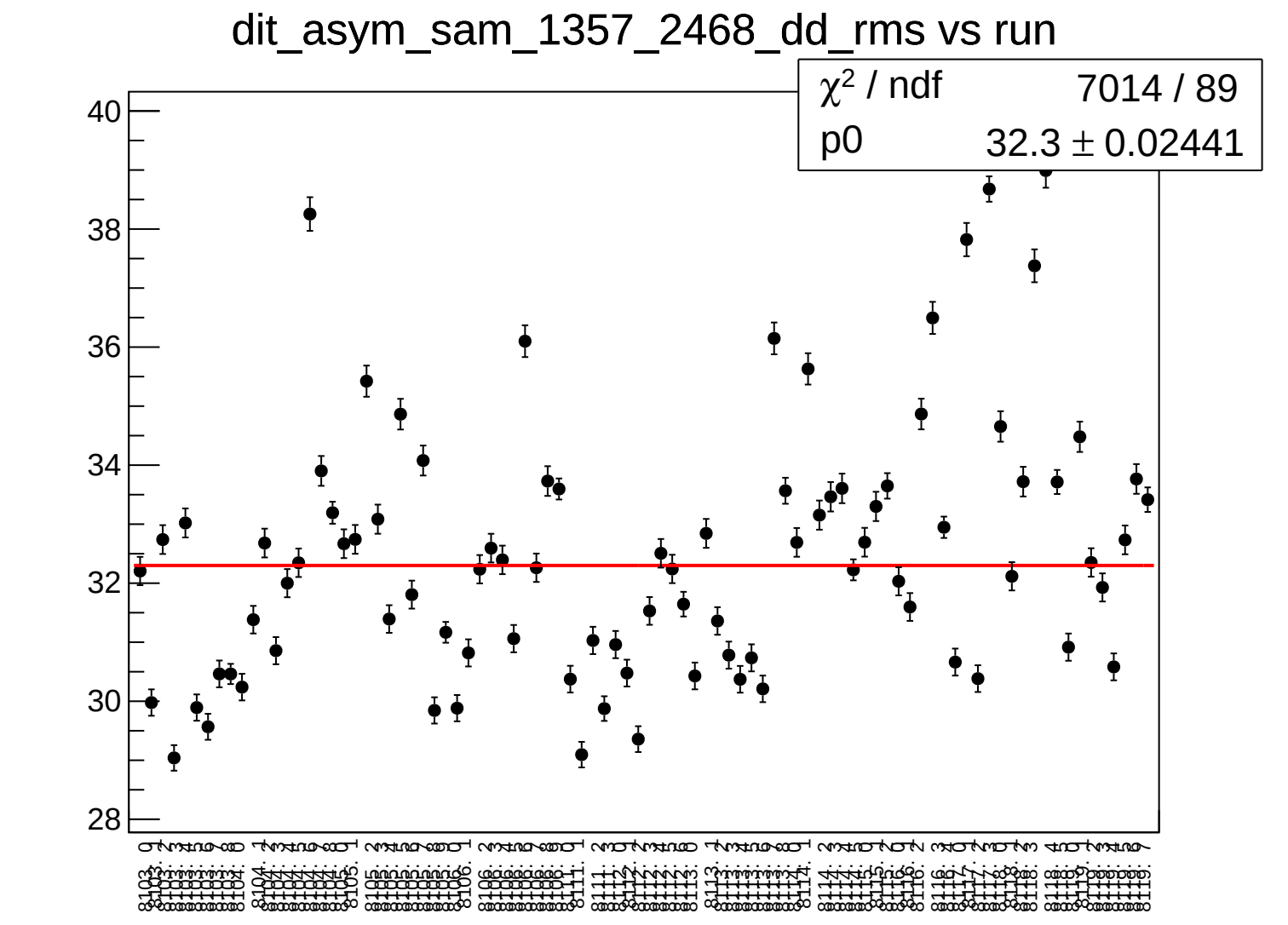

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.04 / 89
p0 1148 ± 491.7
pull
Entries 90
Mean −1.219e+04
Std Dev 0

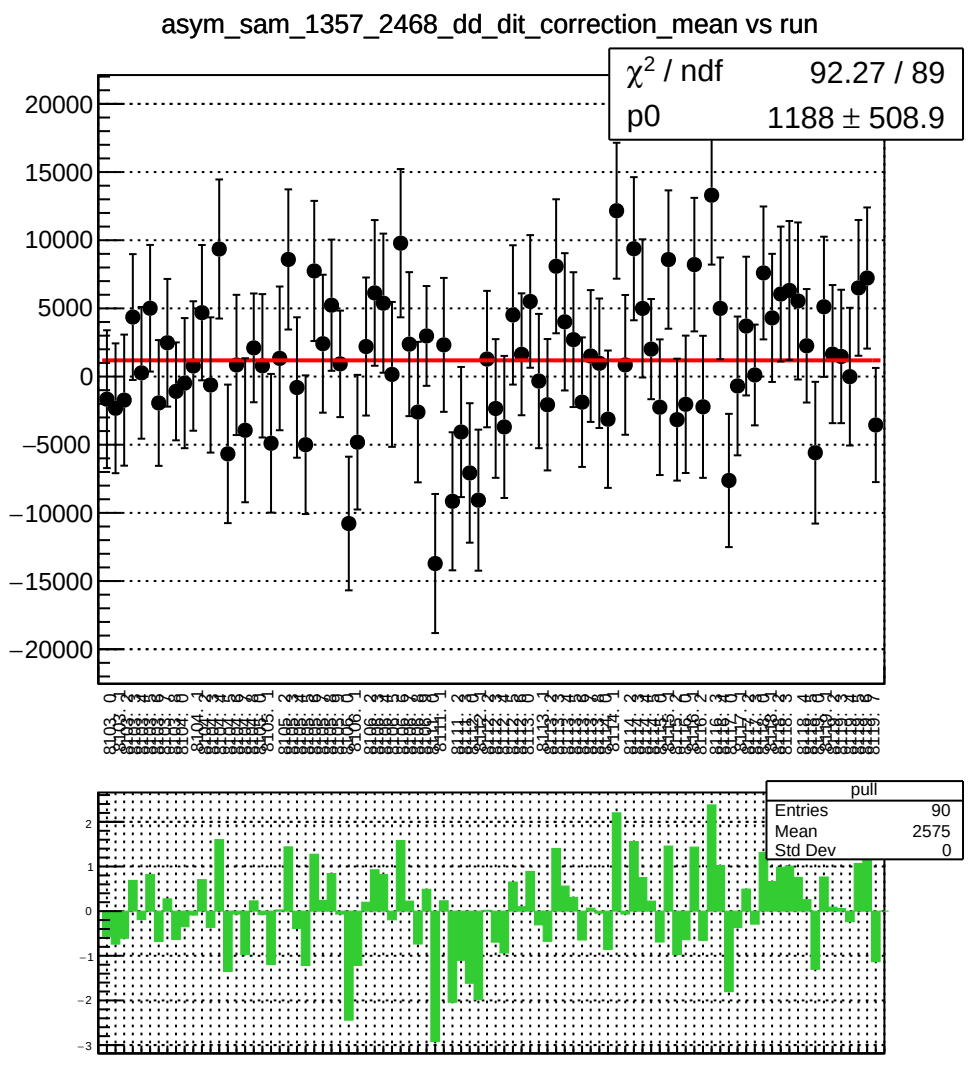

pull1D
Entries 90
Mean −0.0003878
Std Dev 1.011

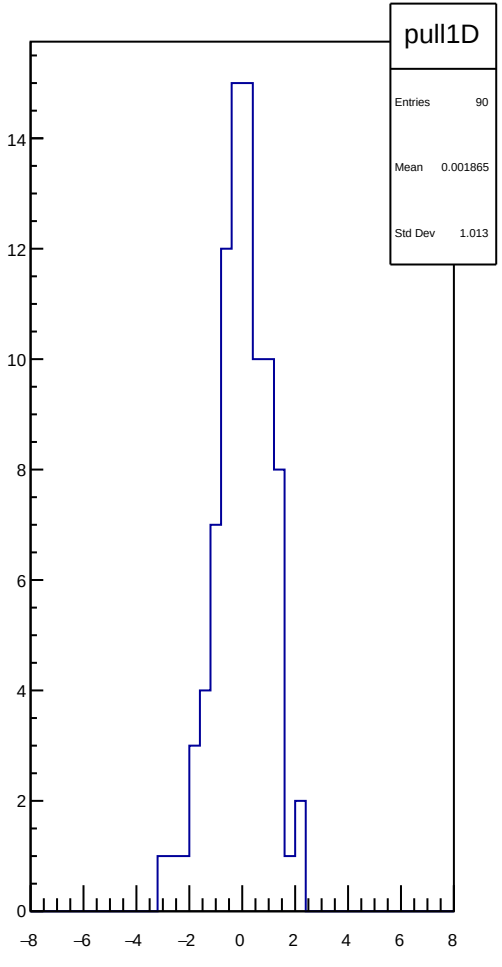

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2549 / 89
p0 460.8 ± 0.3477
520
500
480
460
440
420

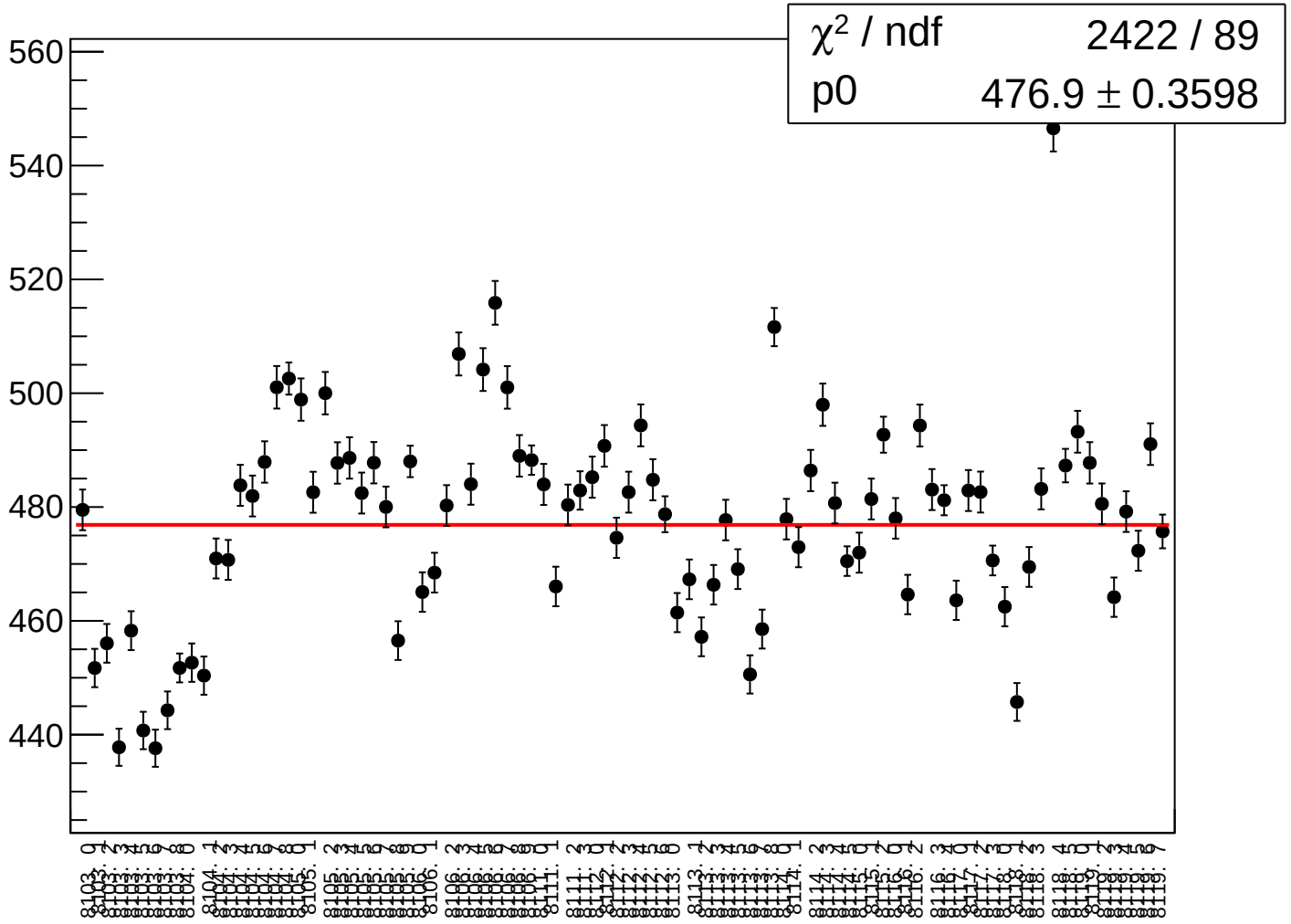

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.48 / 89
p0 47.31 ± 34.51
pull
Entries 90
Mean 1473
Std Dev 0

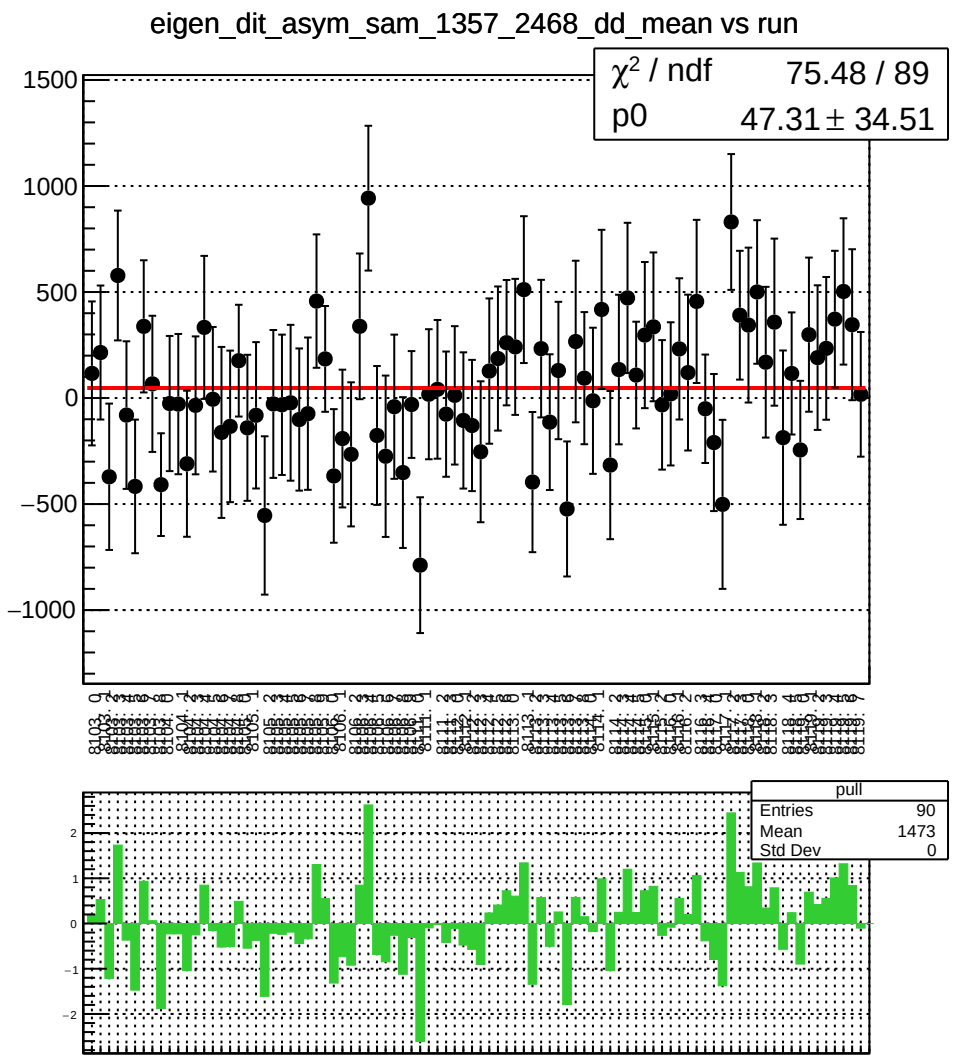

pull1D
Entries 90
Mean 0.004687
Std Dev 0.9158

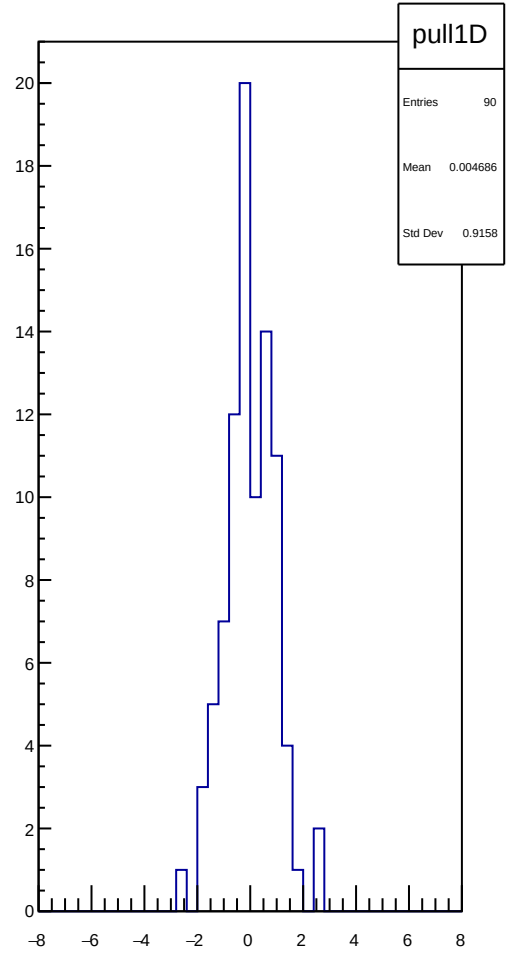

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7014 / 89
p0 32.3 ± 0.02441
40
38
36
34
32
30
28

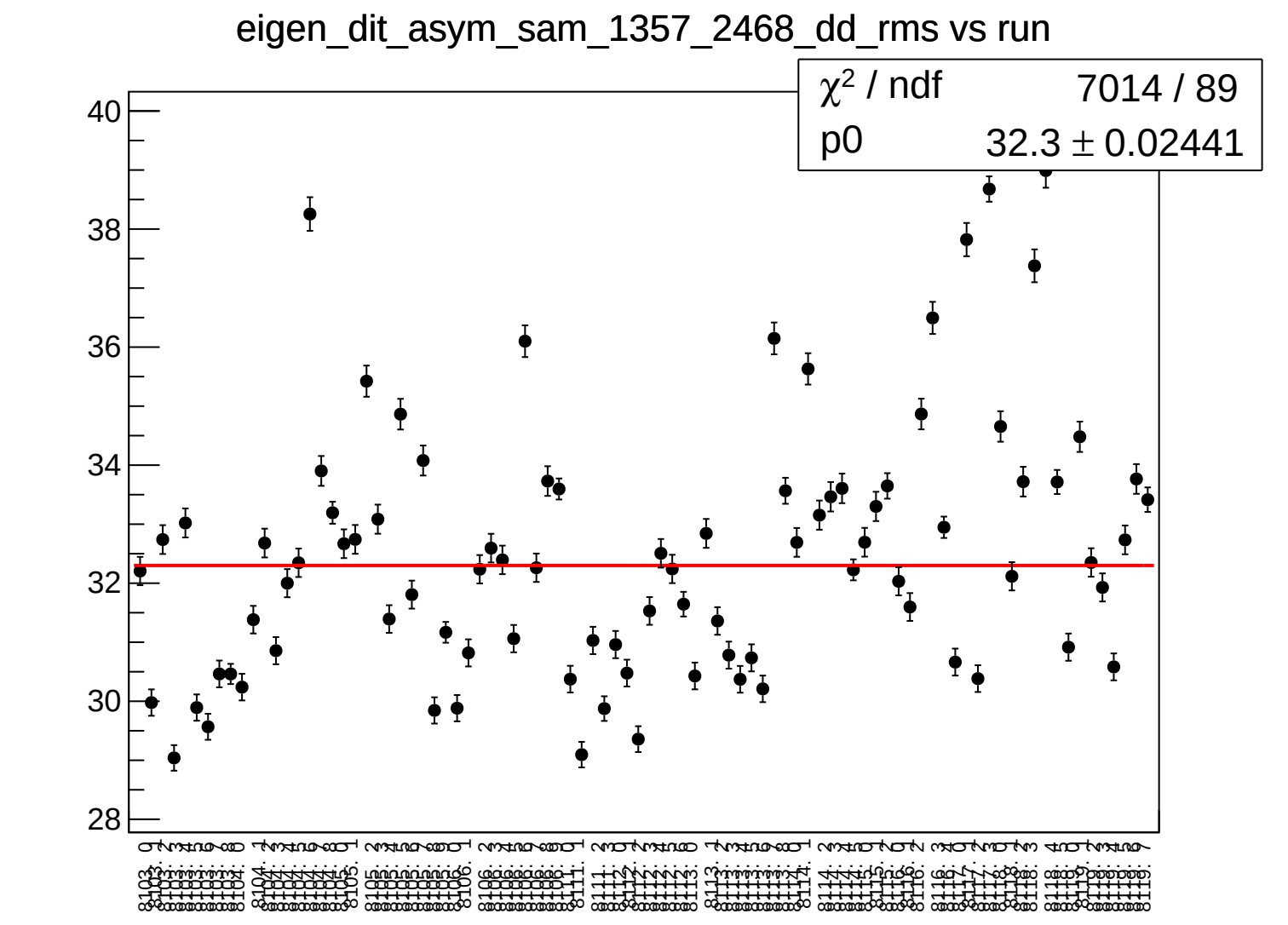

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 92.27 / 89
p0 1188 ± 508.9
pull
Entries 90
Mean 2575
Std Dev 0

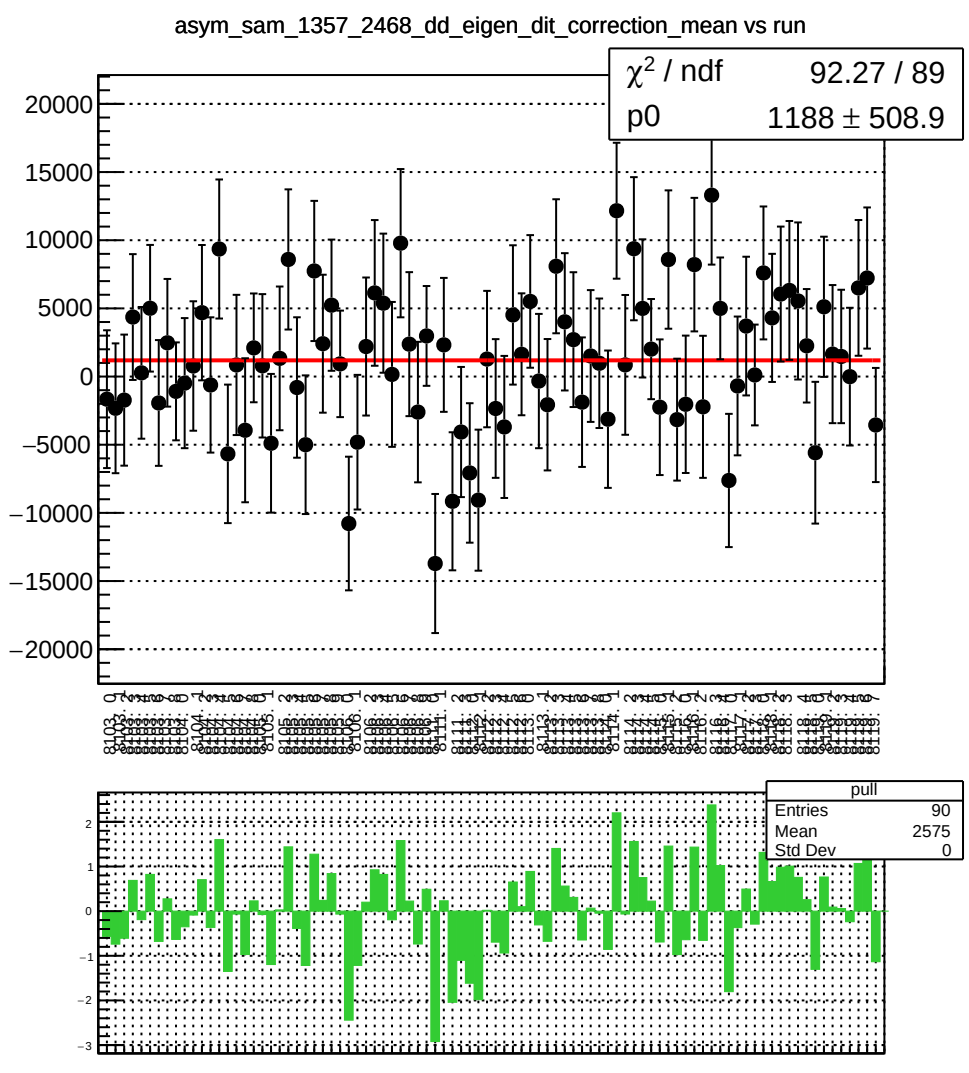

pull1D
Entries 90
Mean 0.001865
Std Dev 1.013

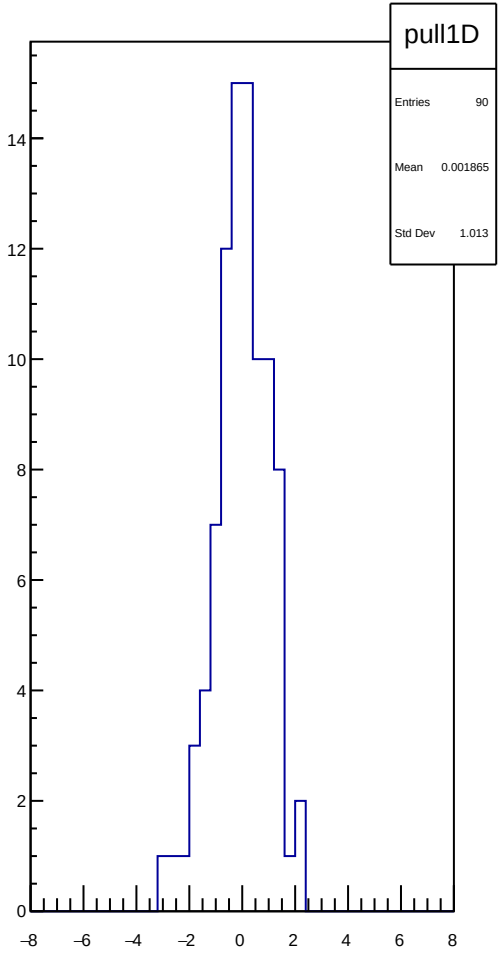

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2422 / 89
p0 476.9 ± 0.3598
560
540
520
500
480
460
440

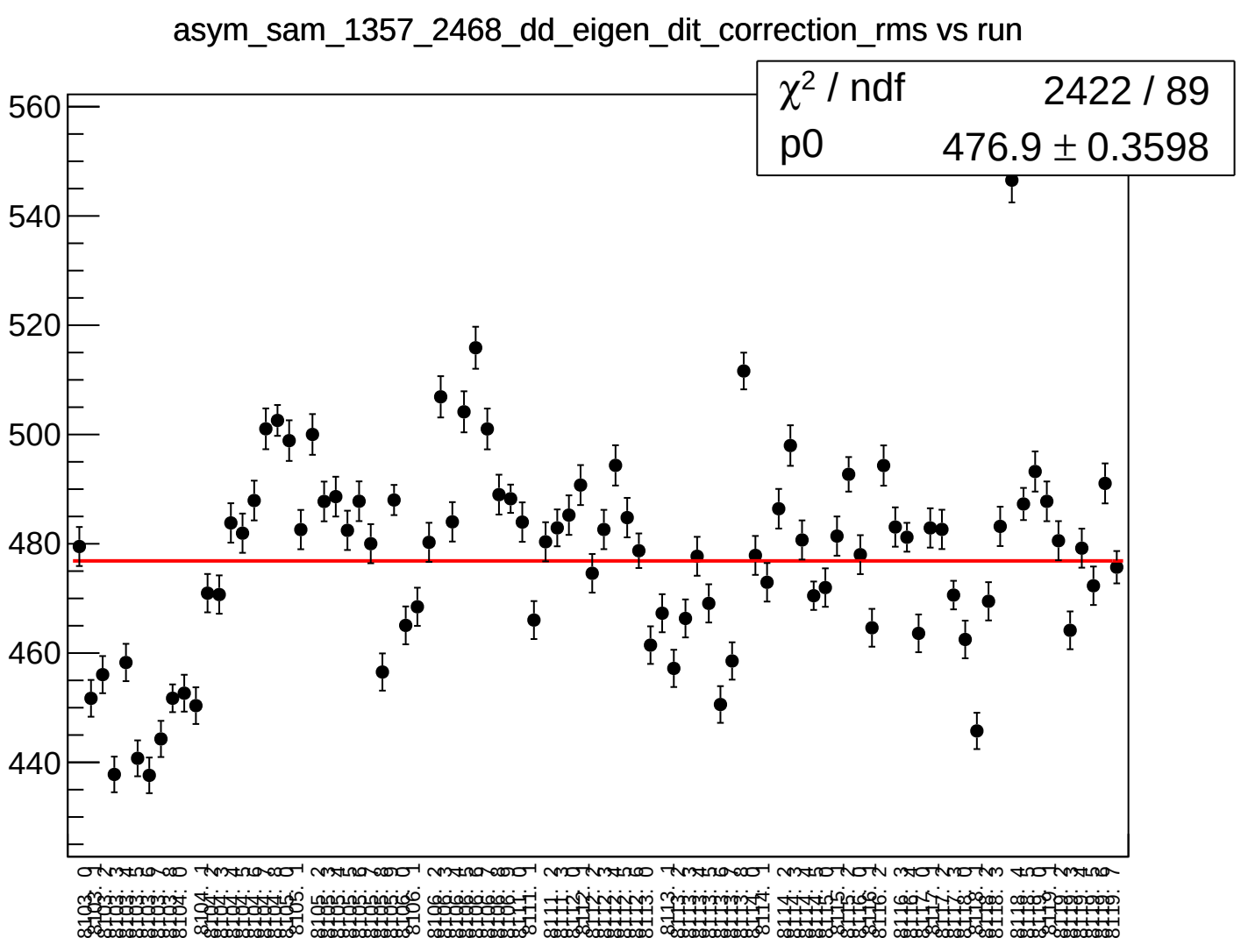

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.48 / 89
p0 47.31 ± 34.51
1500
1000
500
0
−500
−1000
pull
Entries 90
Mean 1473
Std Dev 0
2
1
0
−1
−2

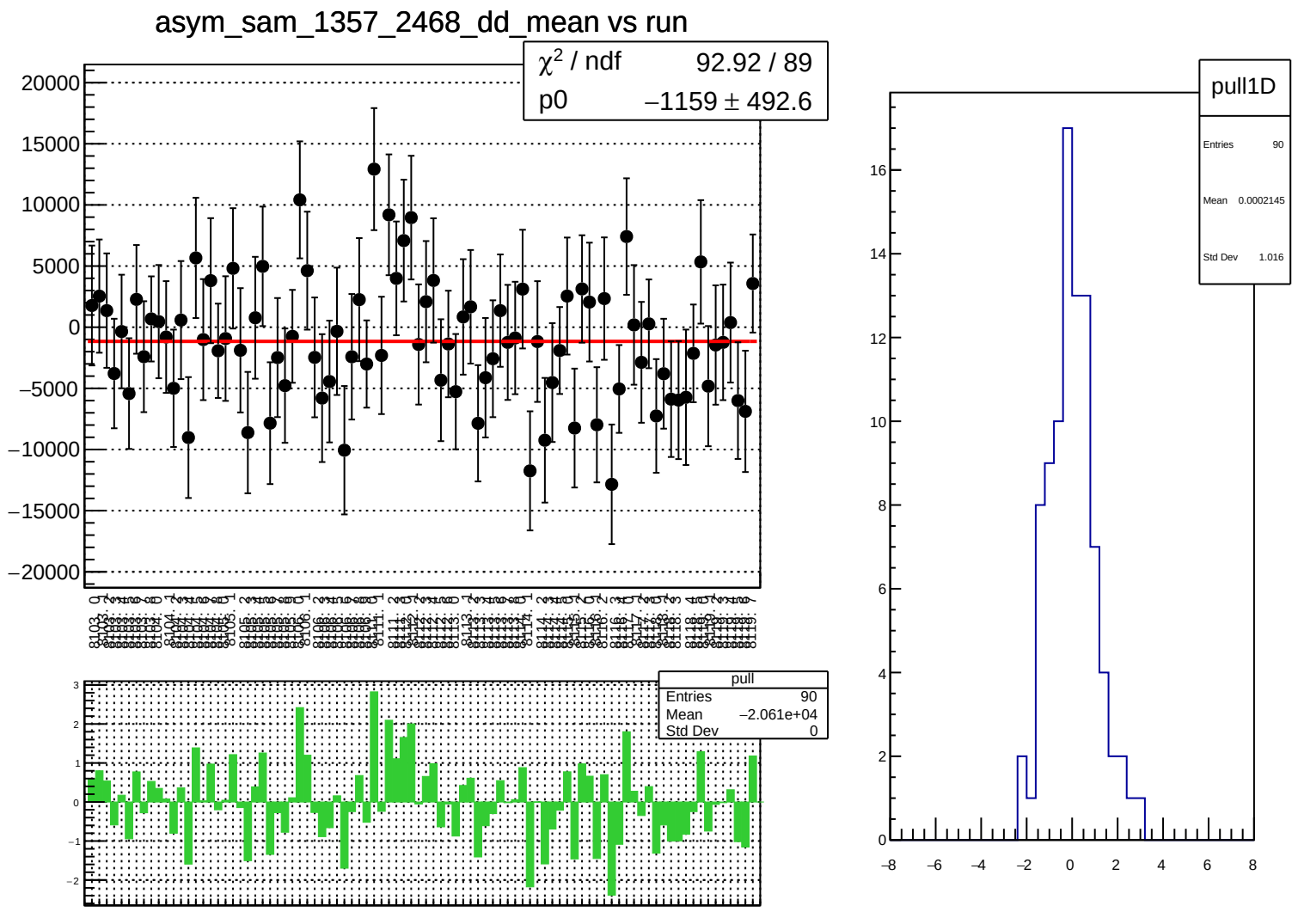

pull1D
Entries 90
Mean 0.004686
Std Dev 0.9158
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

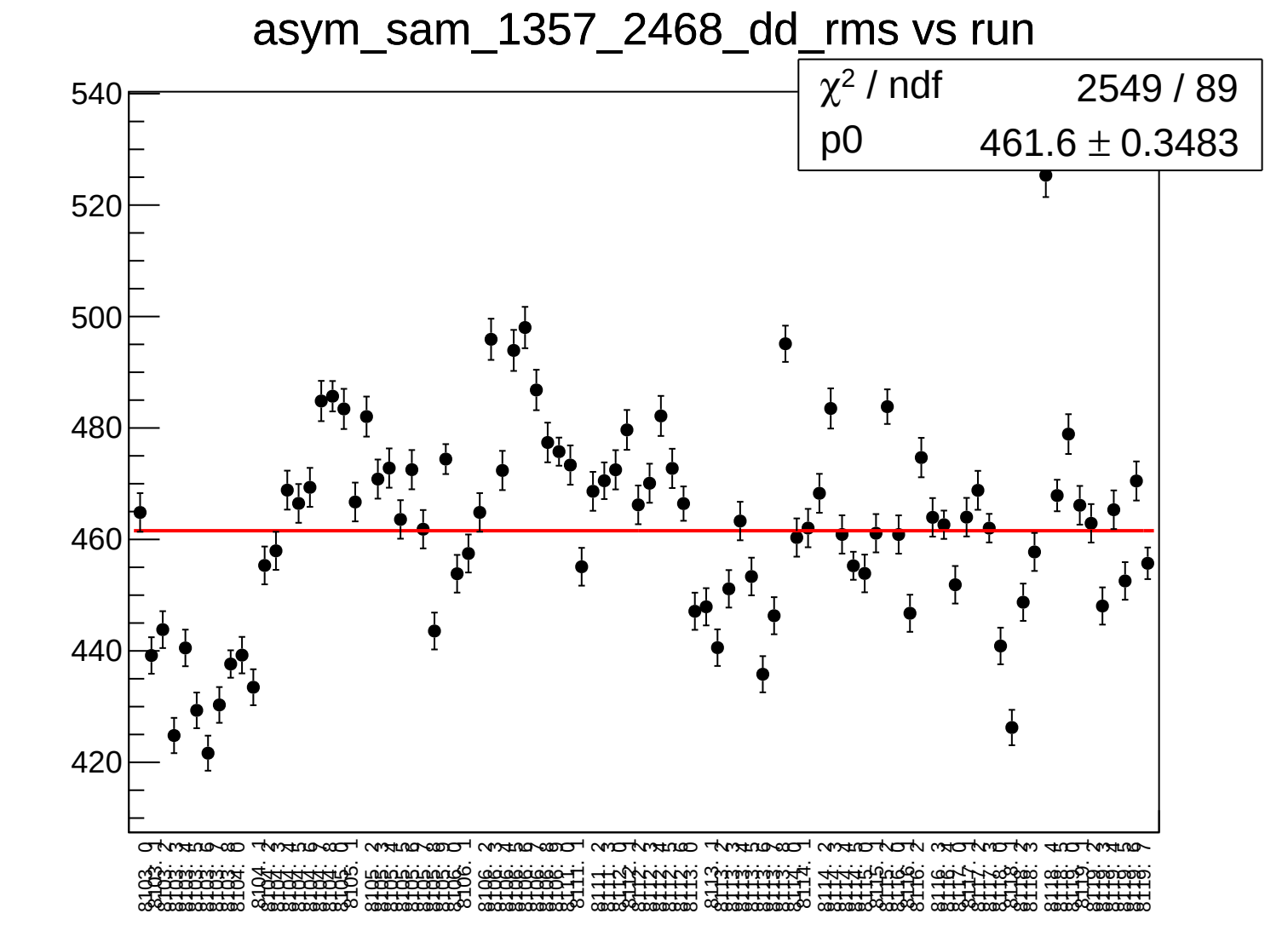

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7014 / 89
p0 32.3 ± 0.02441
40
38
36
34
32
30
28

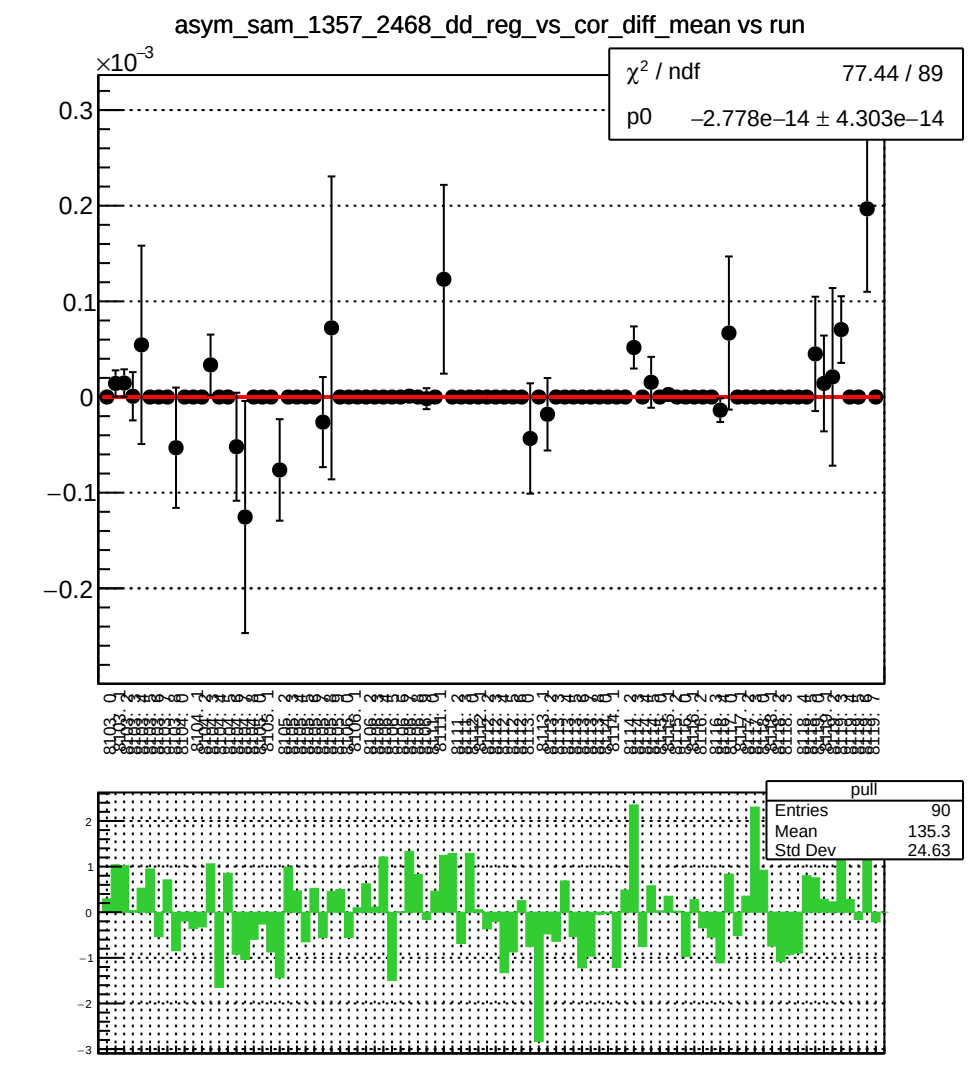

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.27 / 89
p0 1188 ± 508.9
pull
Entries 90
Mean 2575
Std Dev 0

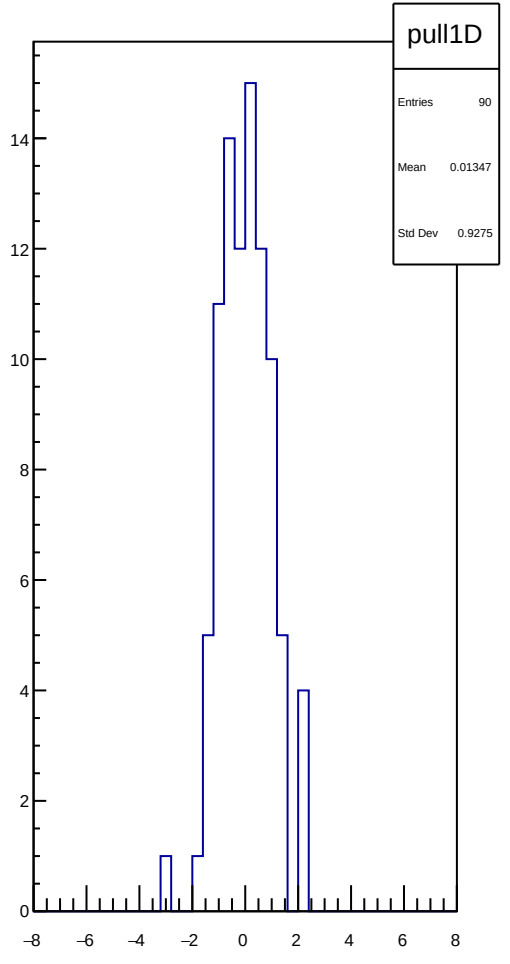

pull1D
Entries 90
Mean 0.001865
Std Dev 1.013

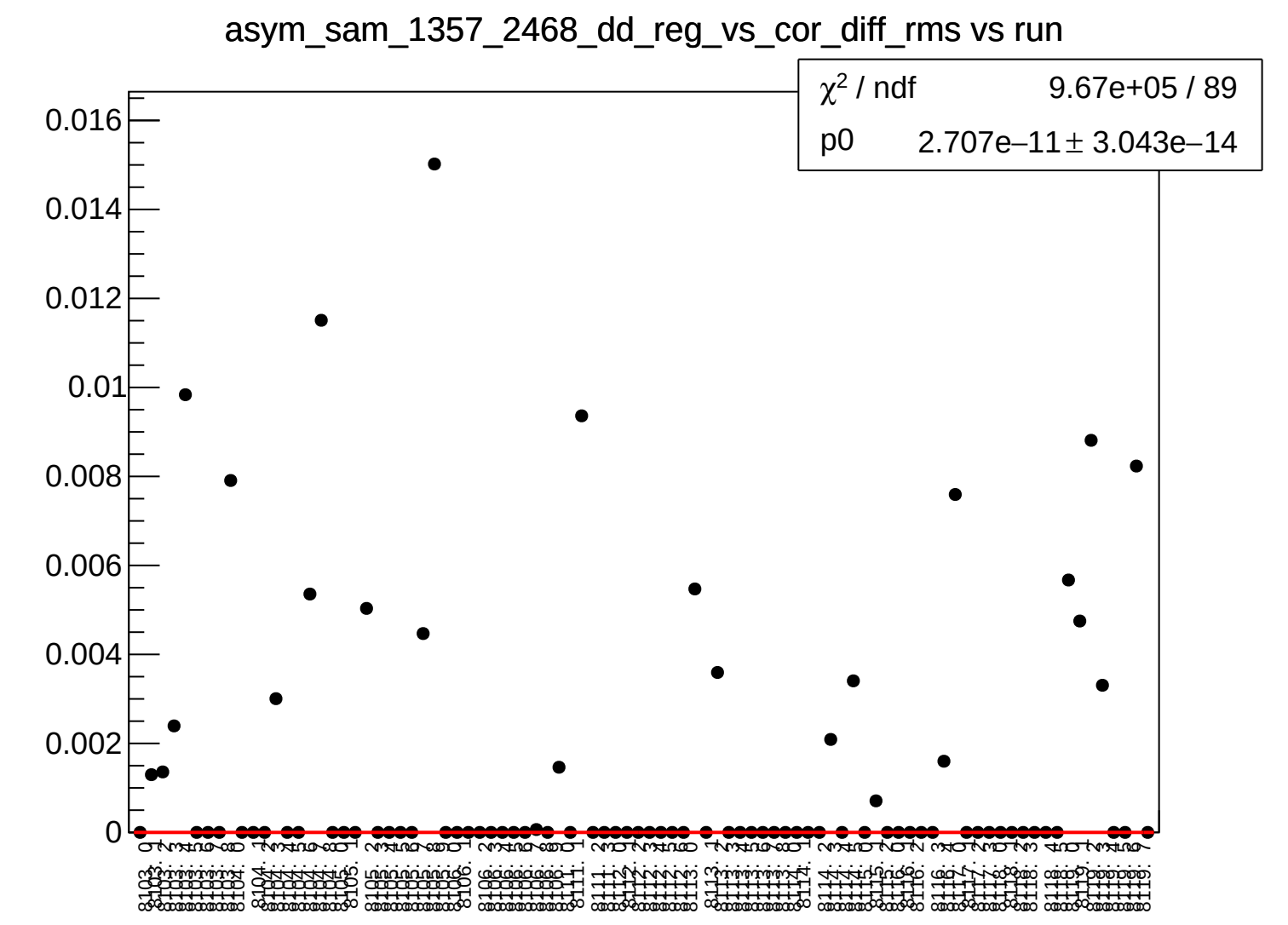

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2422 / 89
p0 476.9 ± 0.3598
560
540
520
500
480
460
440

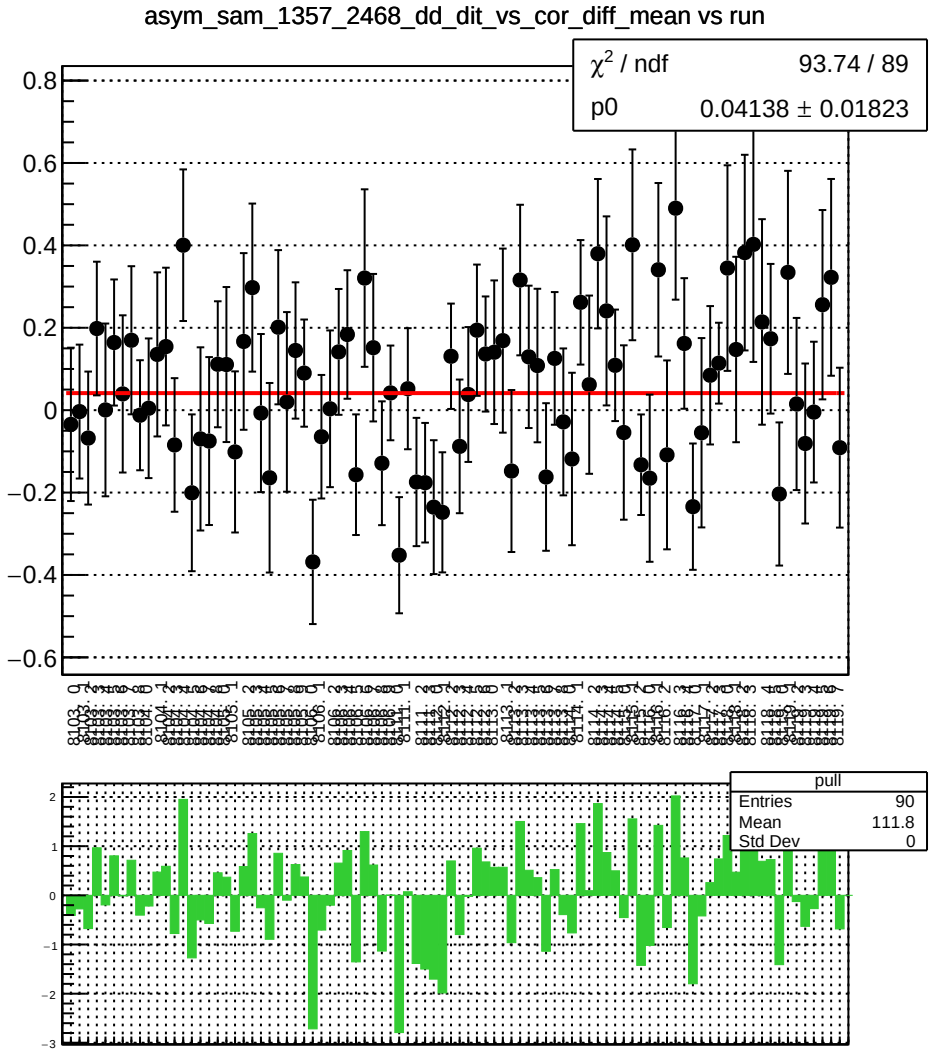

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.92 / 89
p0 −1159 ± 492.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 90
Mean −2.061e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.0002145
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

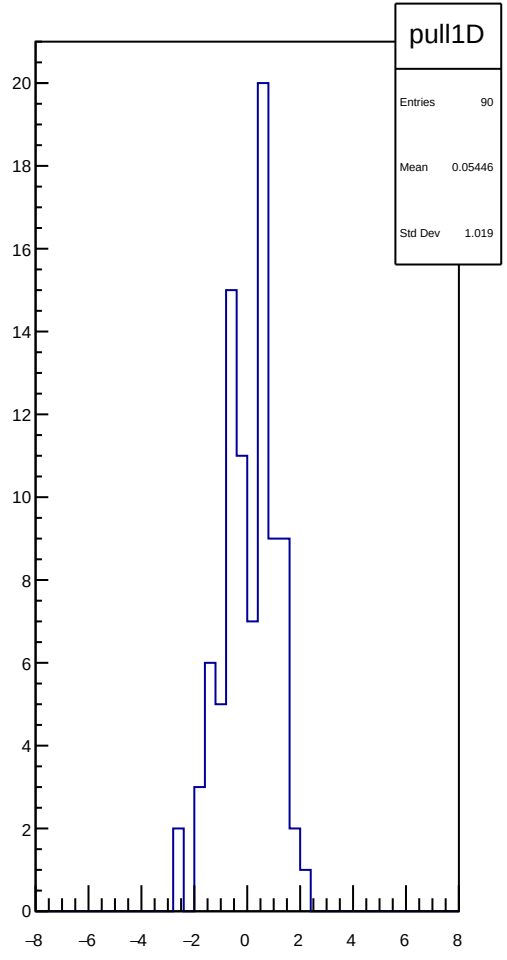

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2549 / 89
p0 461.6 ± 0.3483
540
520
500
480
460
440
420

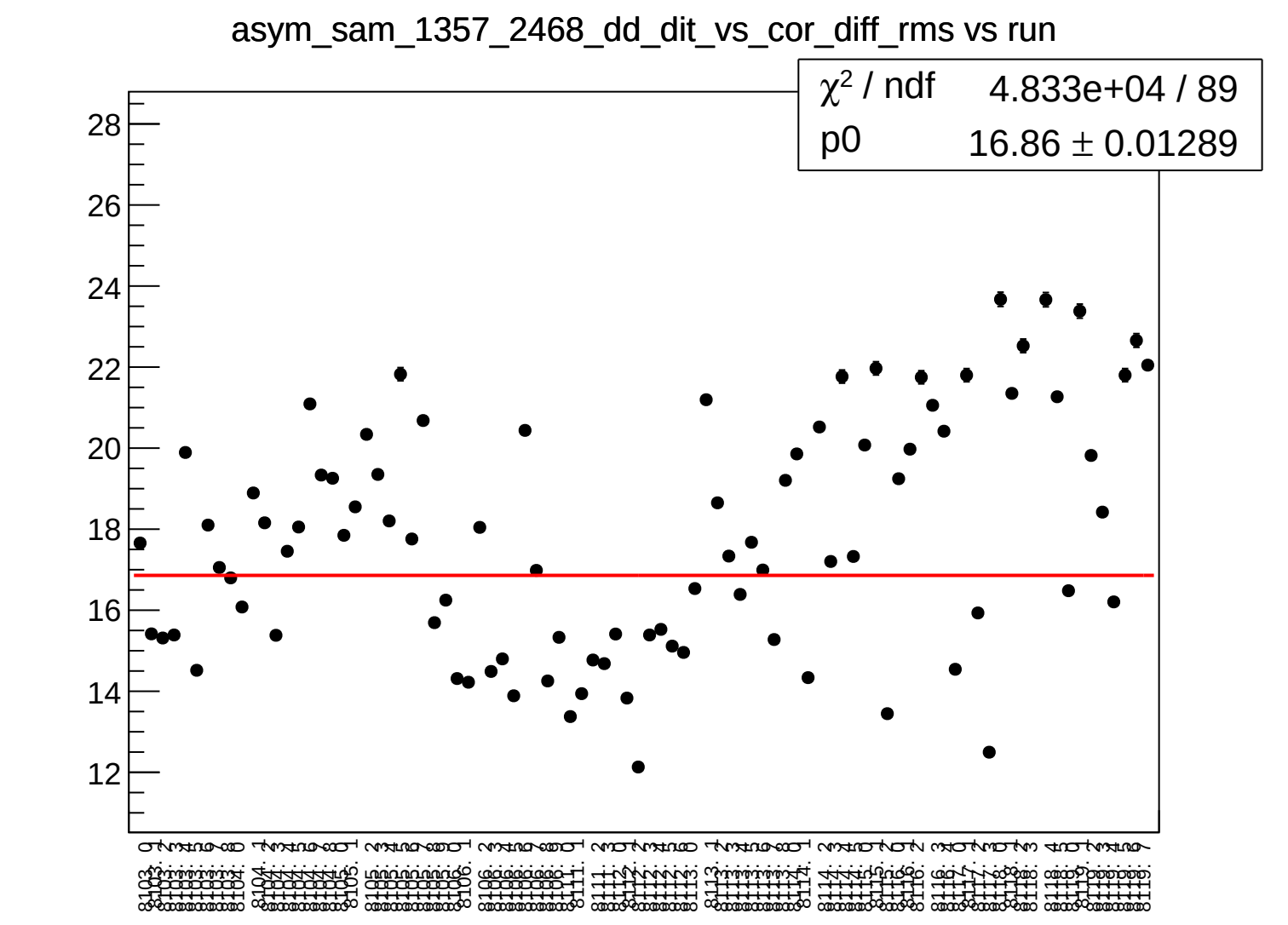

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 77.44 / 89
p0 −2.778e−14 ± 4.303e−14
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 90
Mean 135.3
Std Dev 24.63
2
1
0
−1
−2
−3

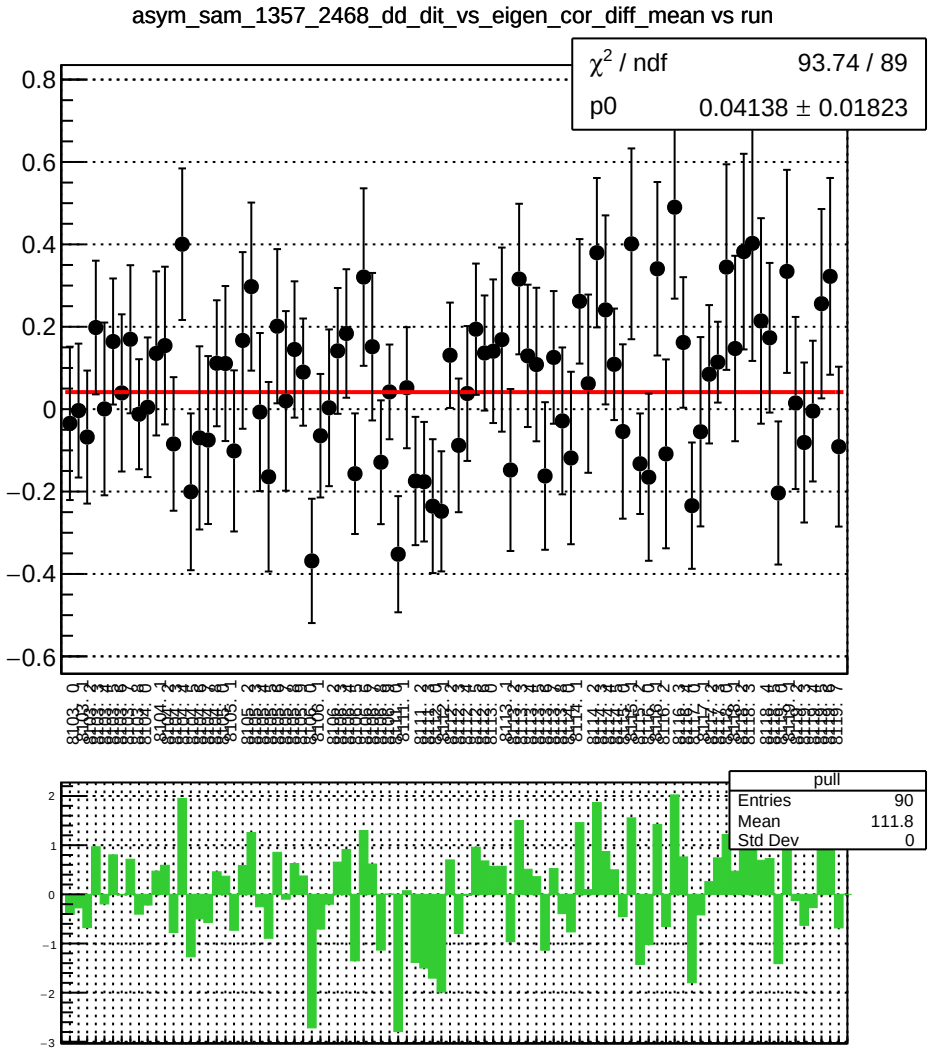

pull1D
Entries 90
Mean 0.01347
Std Dev 0.9275
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

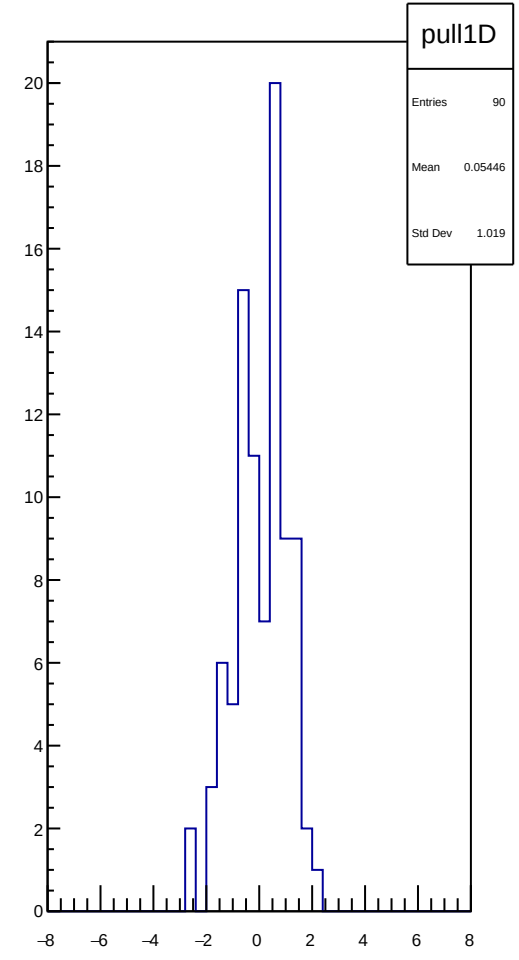

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.67e+05 / 89
p0 2.707e−11 ± 3.043e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

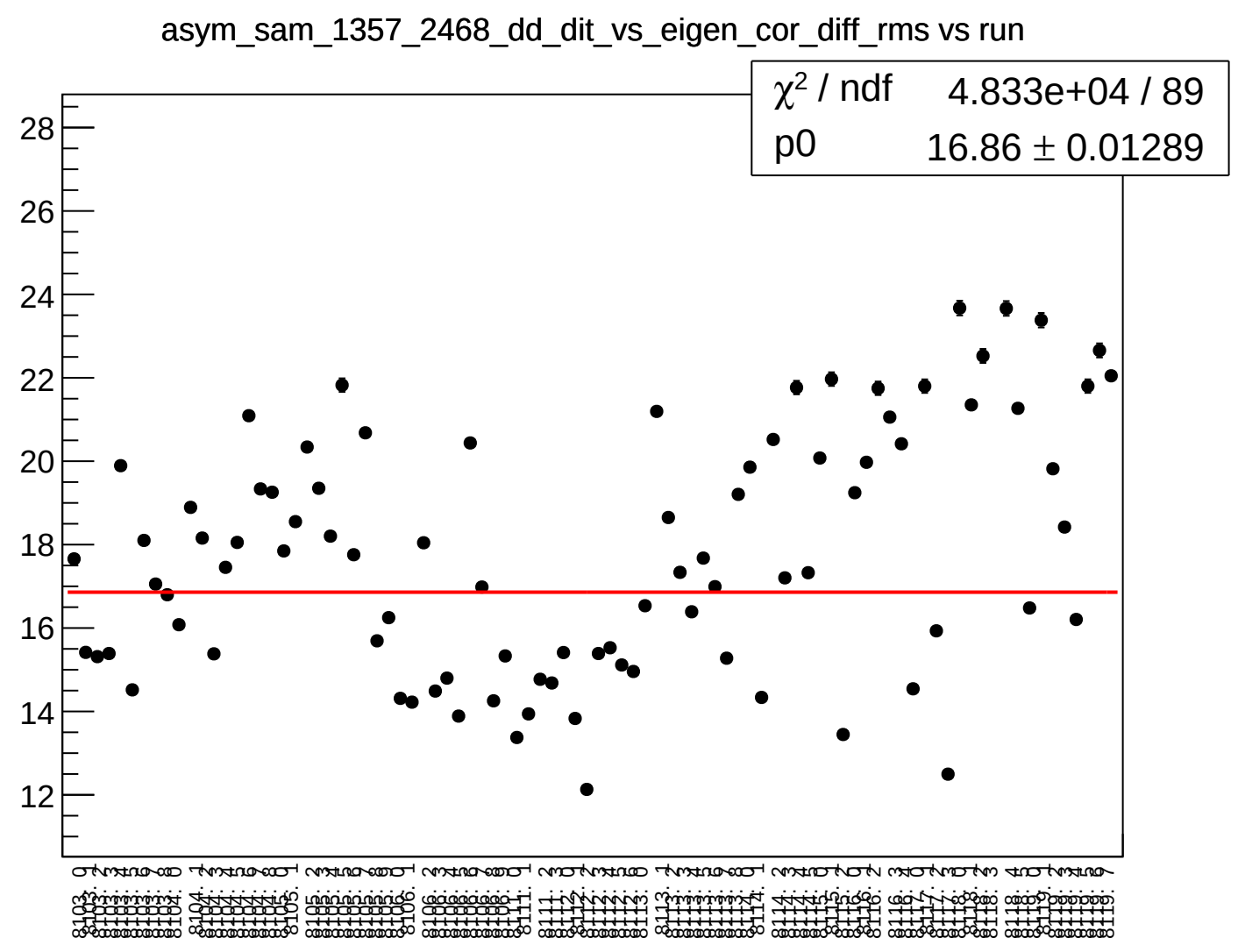

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.74 / 89
p0 0.04138 ± 0.01823
pull
Entries 90
Mean 111.8
Std Dev 0

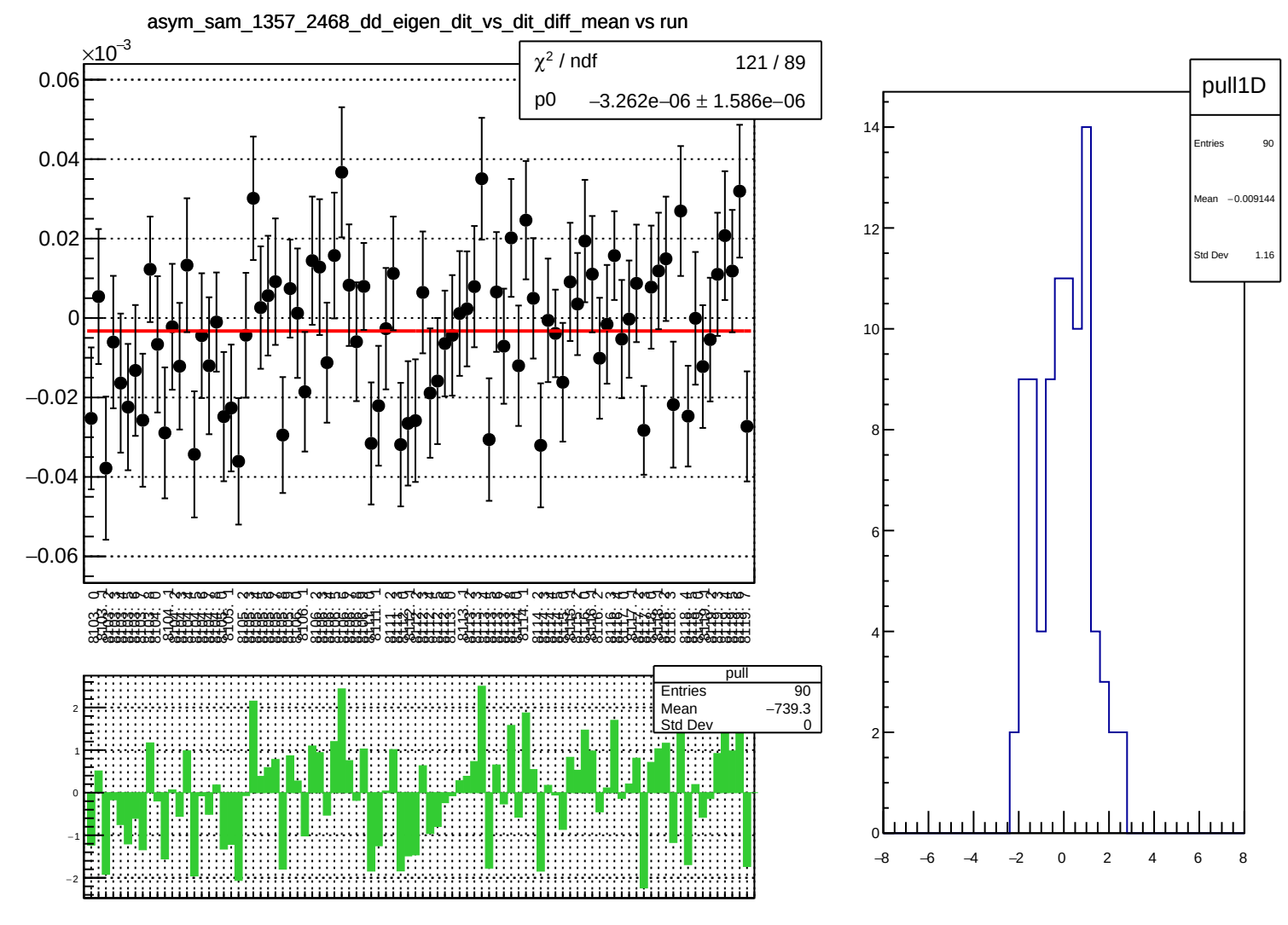

pull1D
Entries 90
Mean 0.05446
Std Dev 1.019

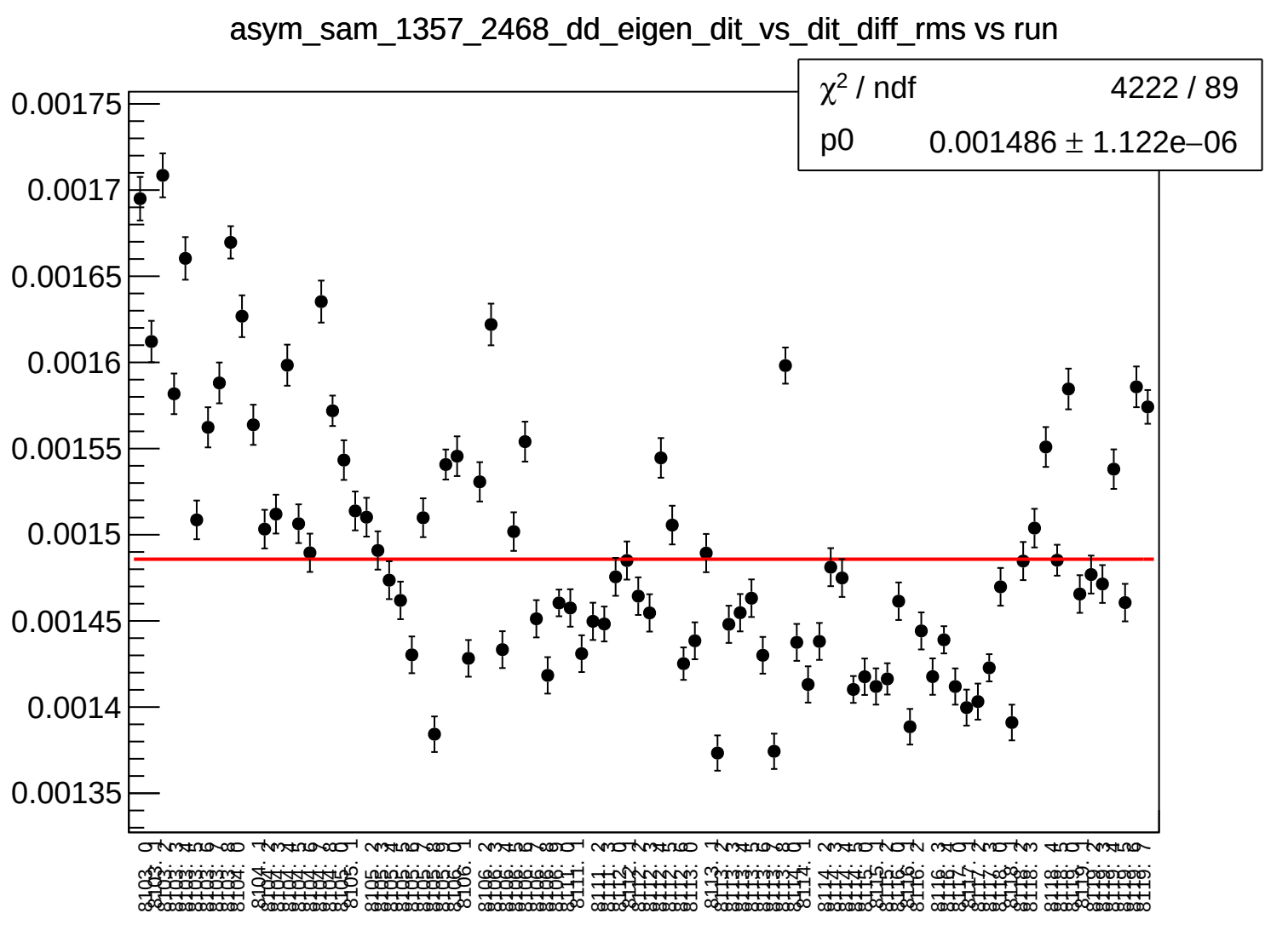

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.833e+04 / 89
p0 16.86 ± 0.01289
28
26
24
22
20
18
16
14
12

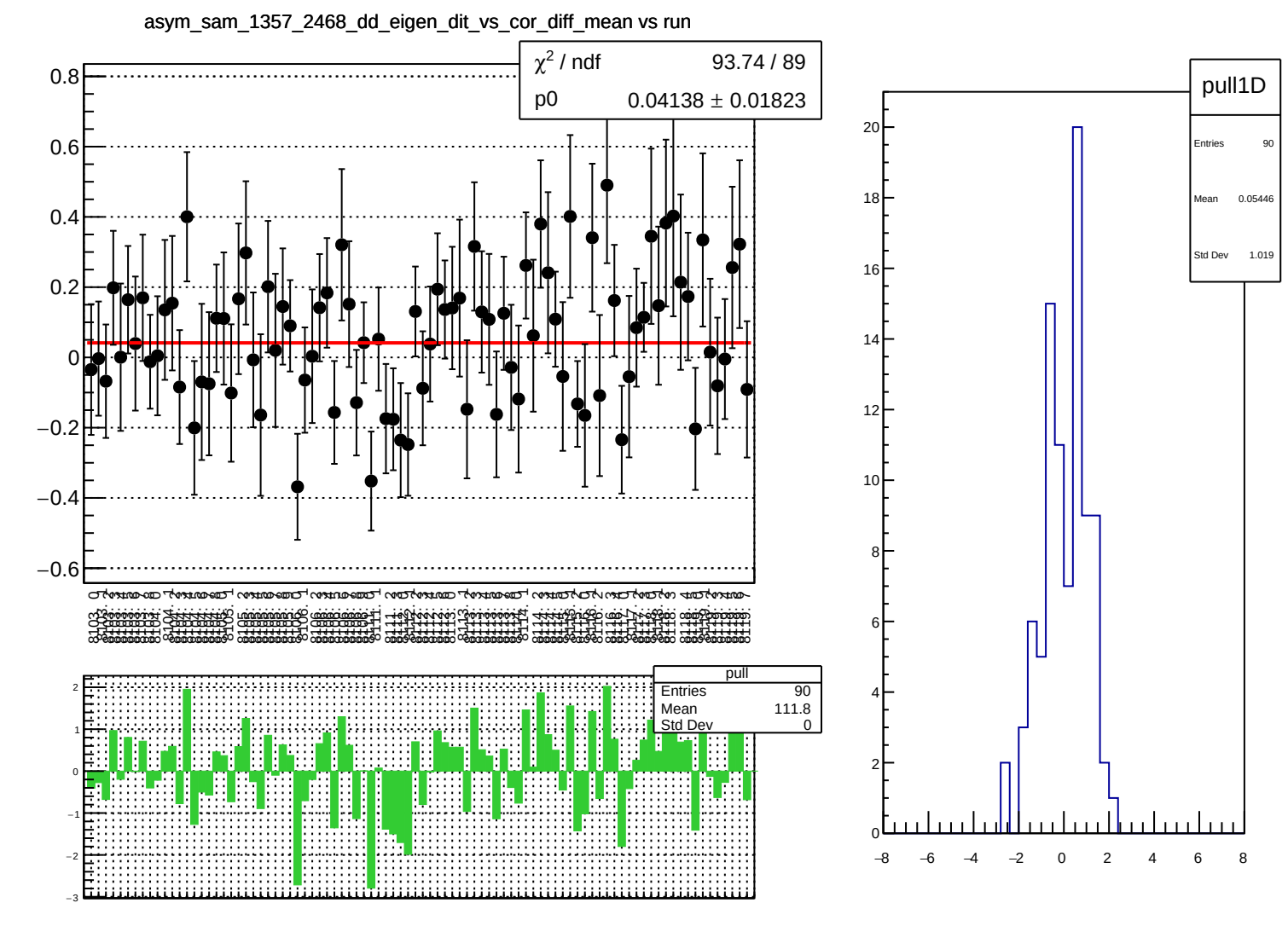

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.74 / 89
p0 0.04138 ± 0.01823
pull
Entries 90
Mean 111.8
Std Dev 0

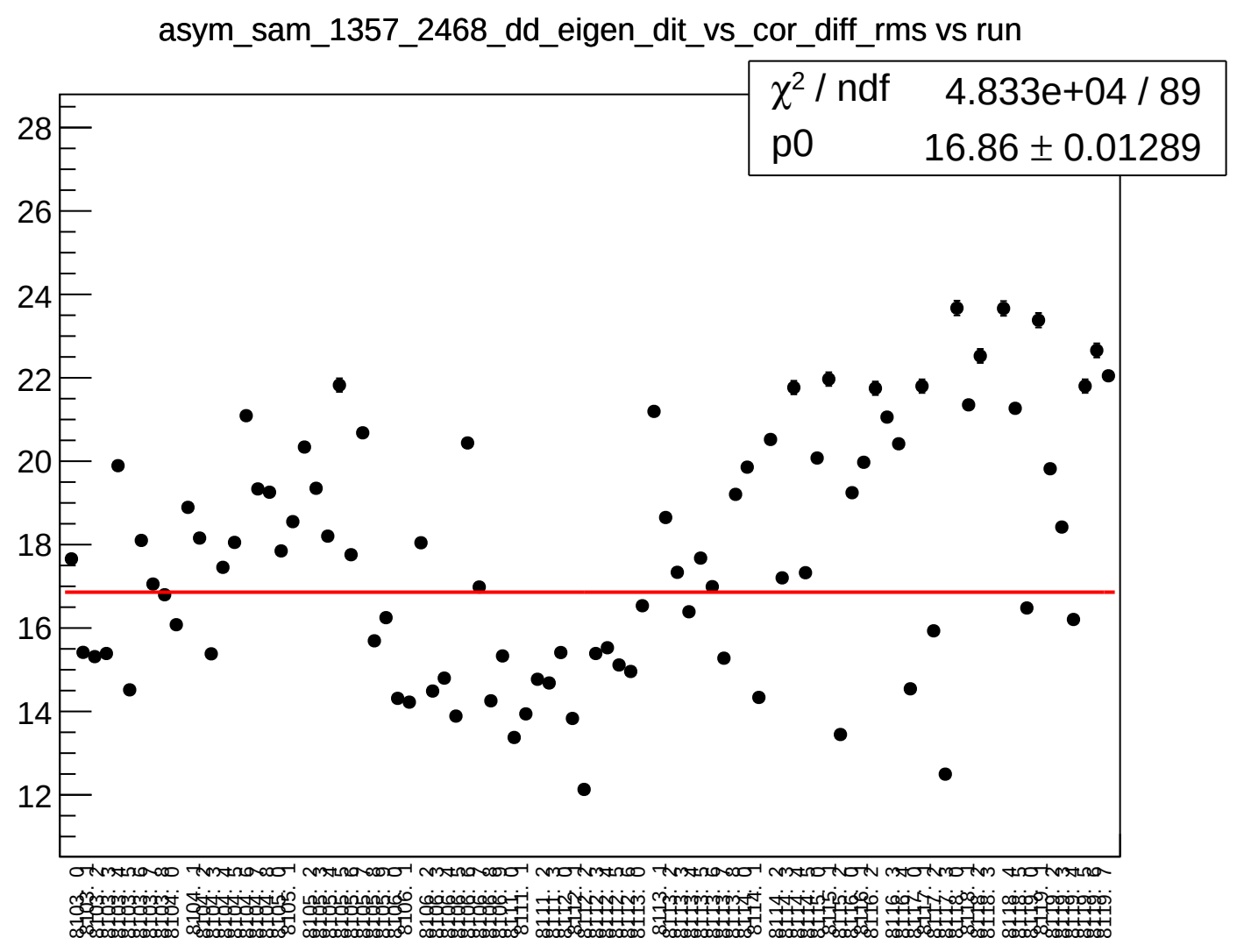

pull1D
Entries 90
Mean 0.05446
Std Dev 1.019

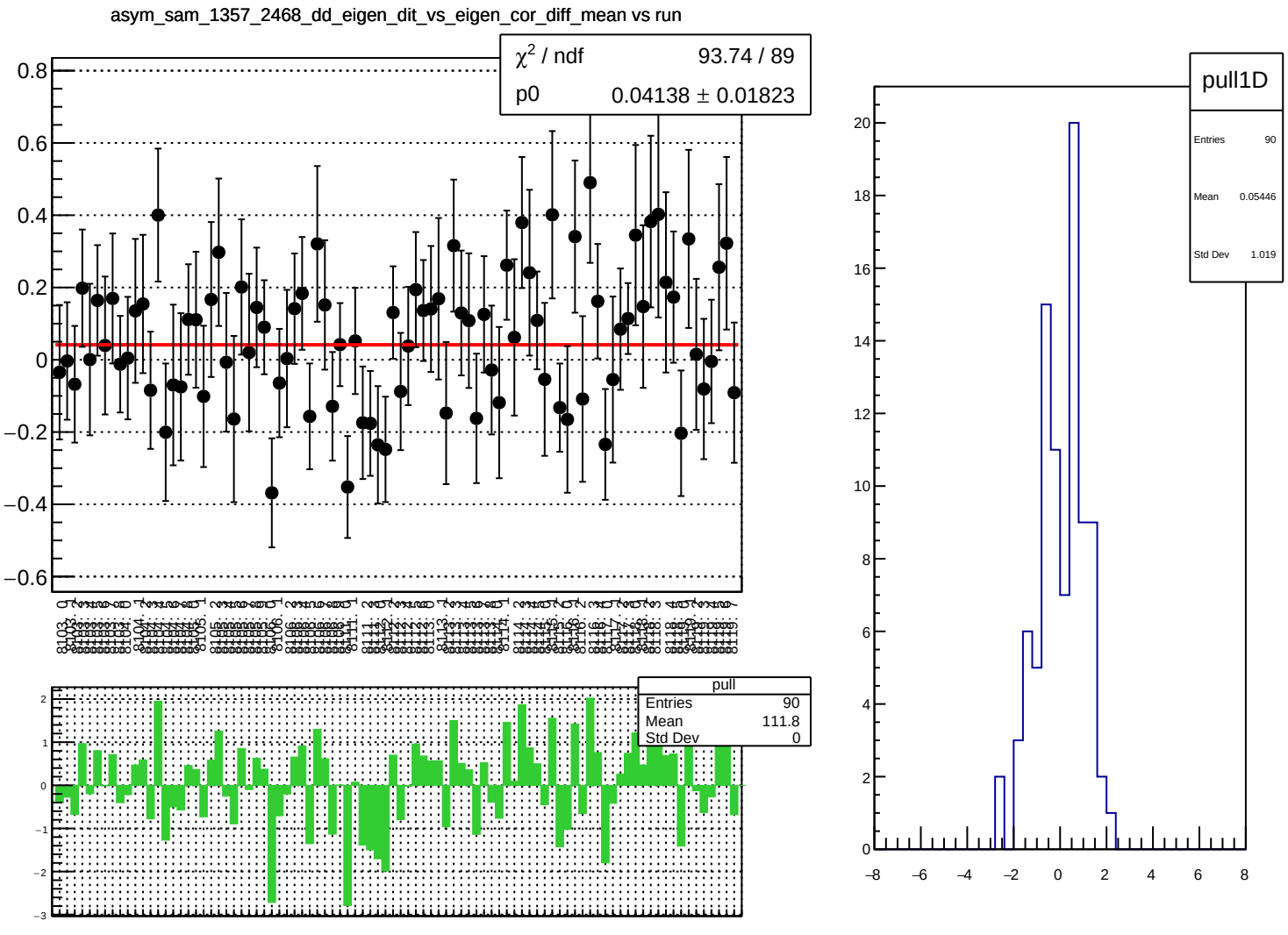

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.833e+04 / 89
p0 16.86 ± 0.01289
28
26
24
22
20
18
16
14
12

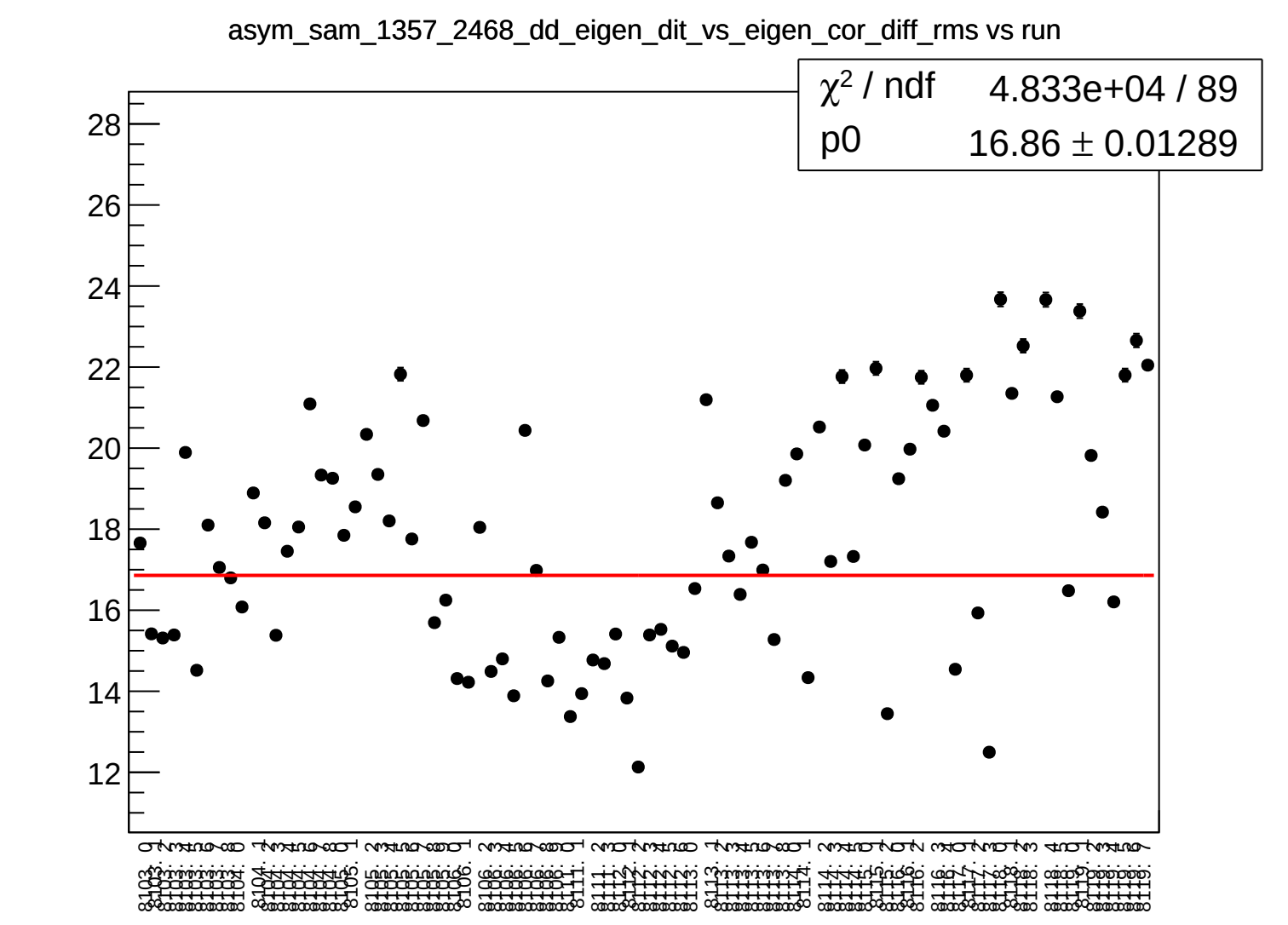

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 121 / 89
p0 −3.262e−06 ± 1.586e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 90
Mean −739.3
Std Dev 0
pull1D
Entries 90
Mean −0.009144
Std Dev 1.16

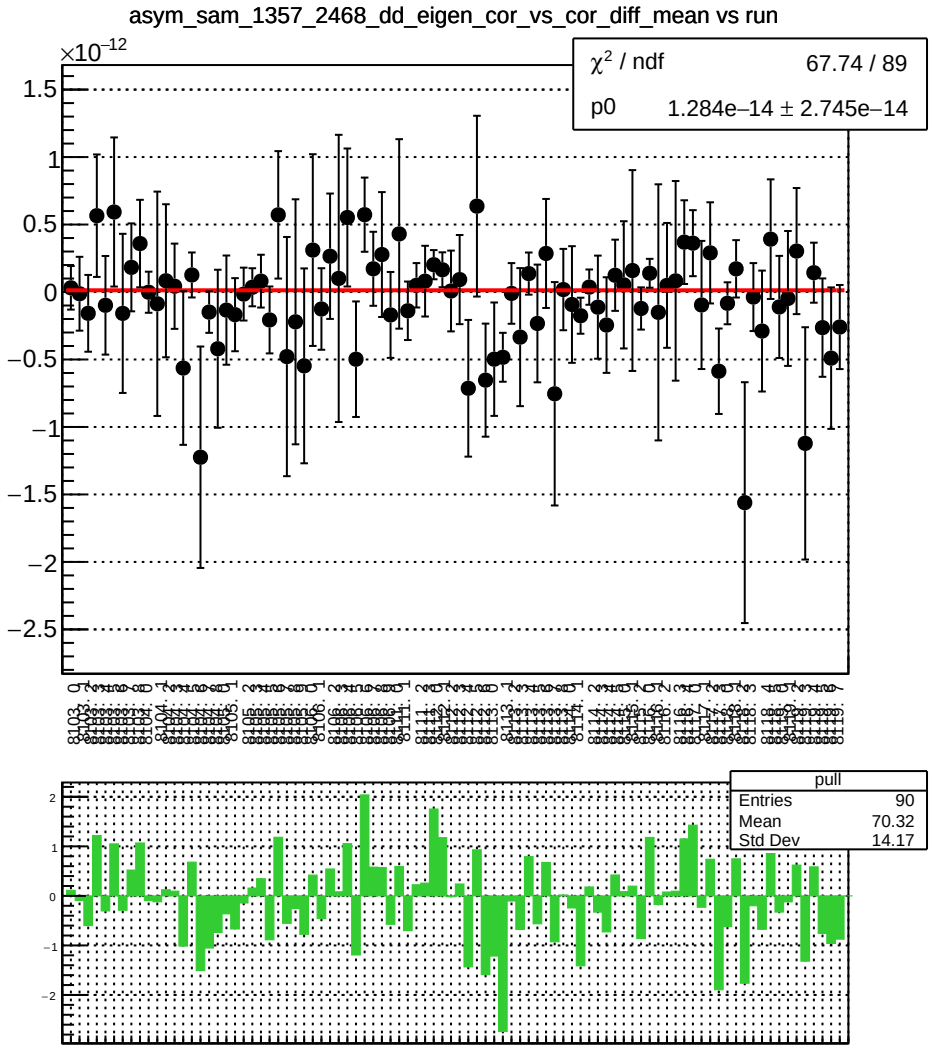

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4222 / 89
p0 0.001486 ± 1.122e−06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135

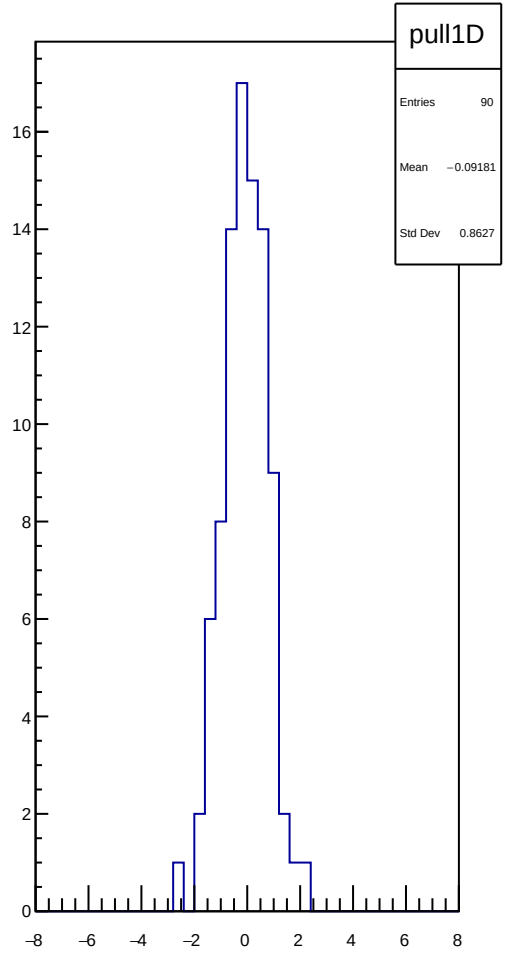

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.74 / 89
p0 0.04138 ± 0.01823
pull
Entries 90
Mean 111.8
Std Dev 0
pull1D
Entries 90
Mean 0.05446
Std Dev 1.019

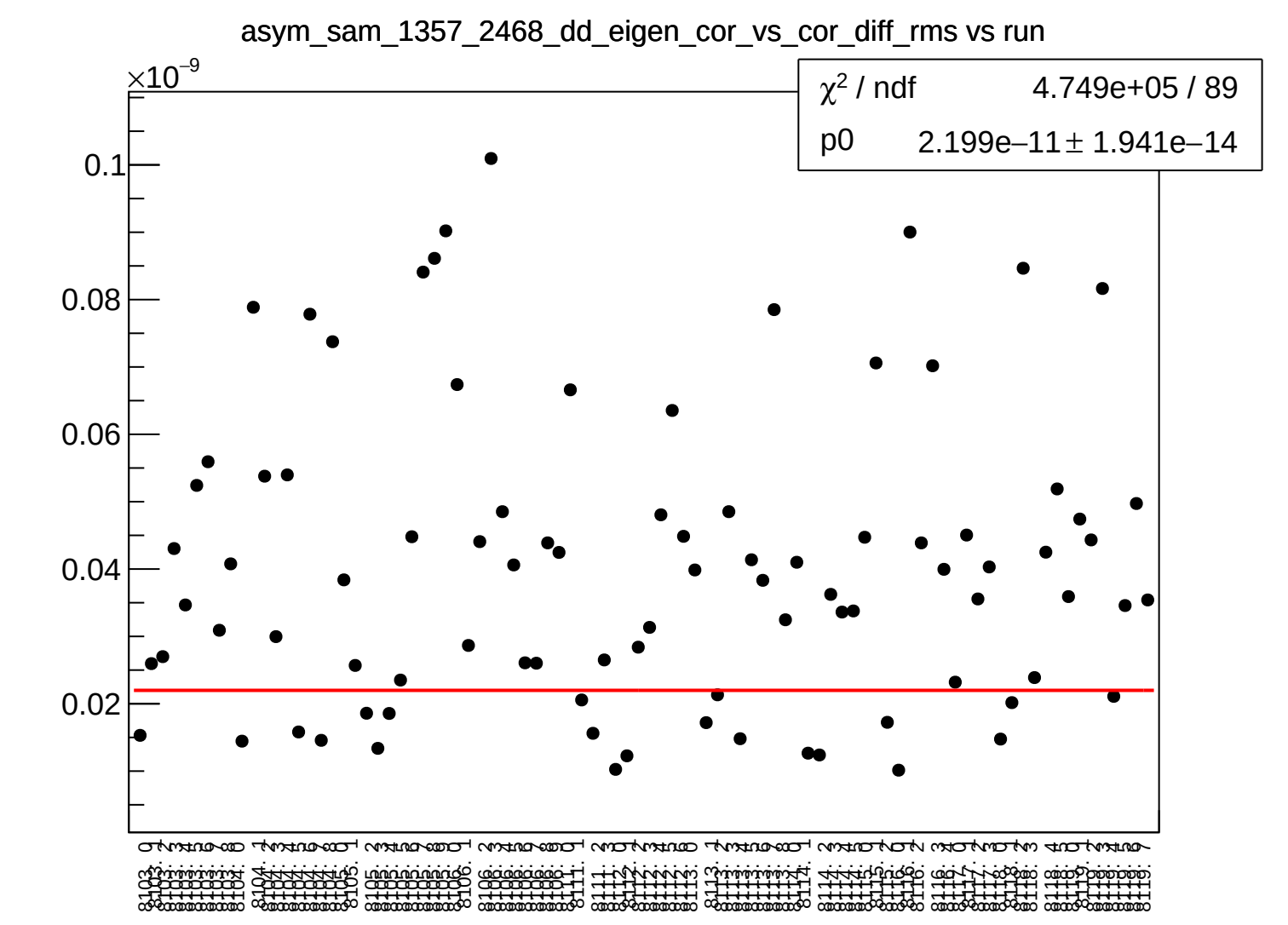

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.833e+04 / 89
p0 16.86 ± 0.01289
28
26
24
22
20
18
16
14
12

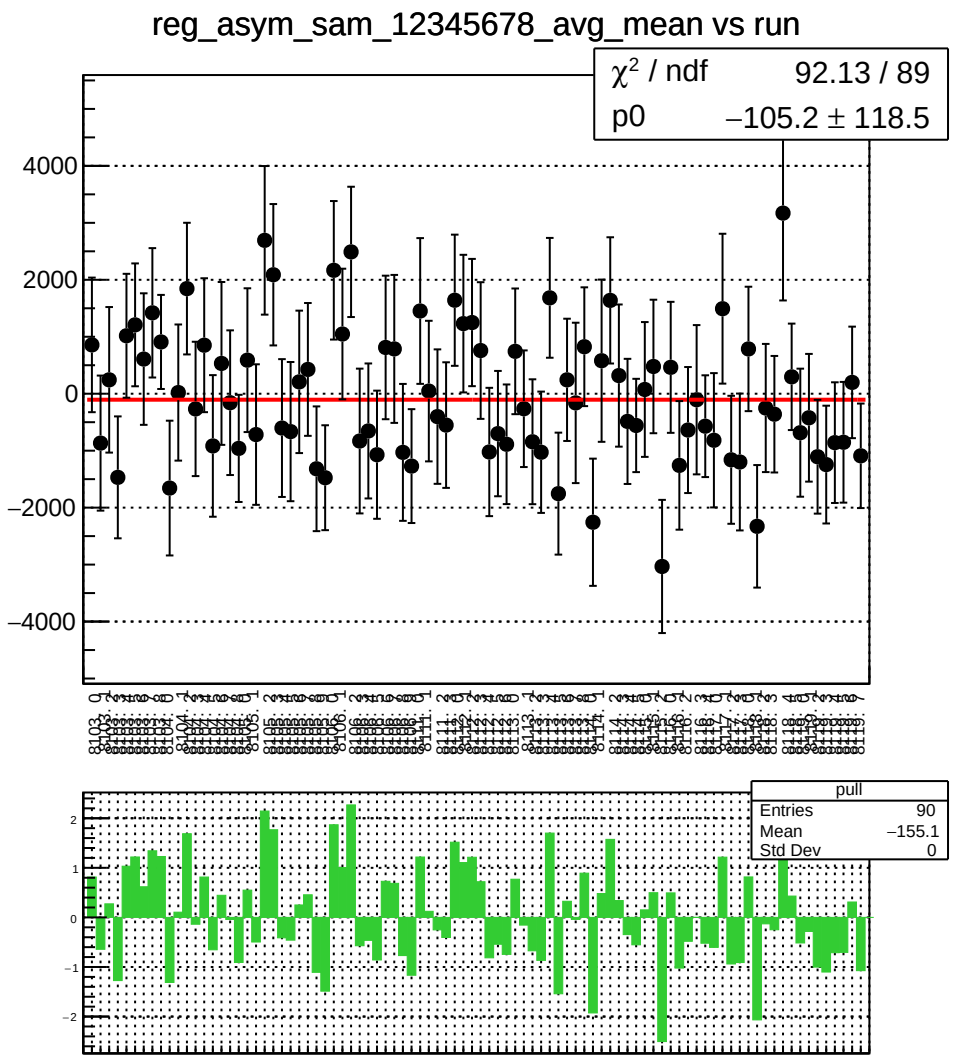

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.74 / 89
p0 0.04138 ± 0.01823
pull
Entries 90
Mean 111.8
Std Dev 0
pull1D
Entries 90
Mean 0.05446
Std Dev 1.019

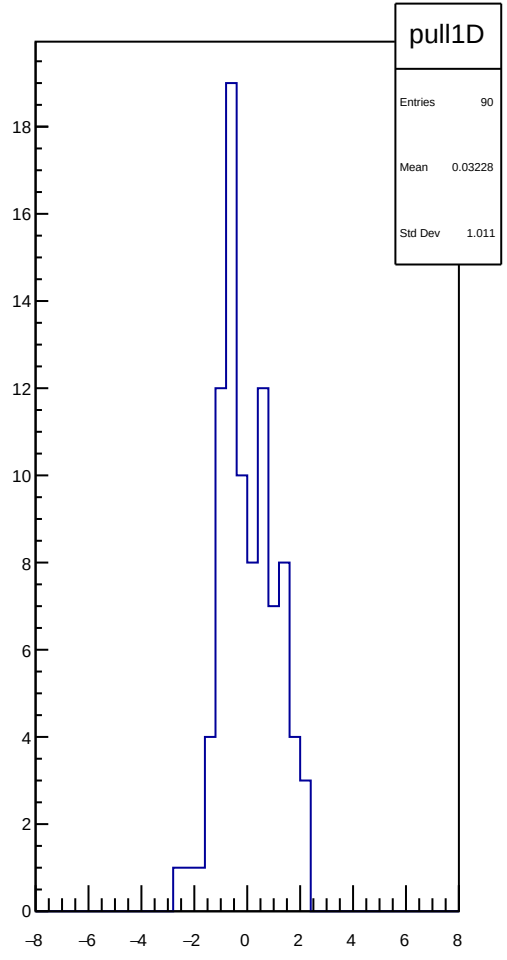

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.833e+04 / 89
p0 16.86 ± 0.01289
28
26
24
22
20
18
16
14
12

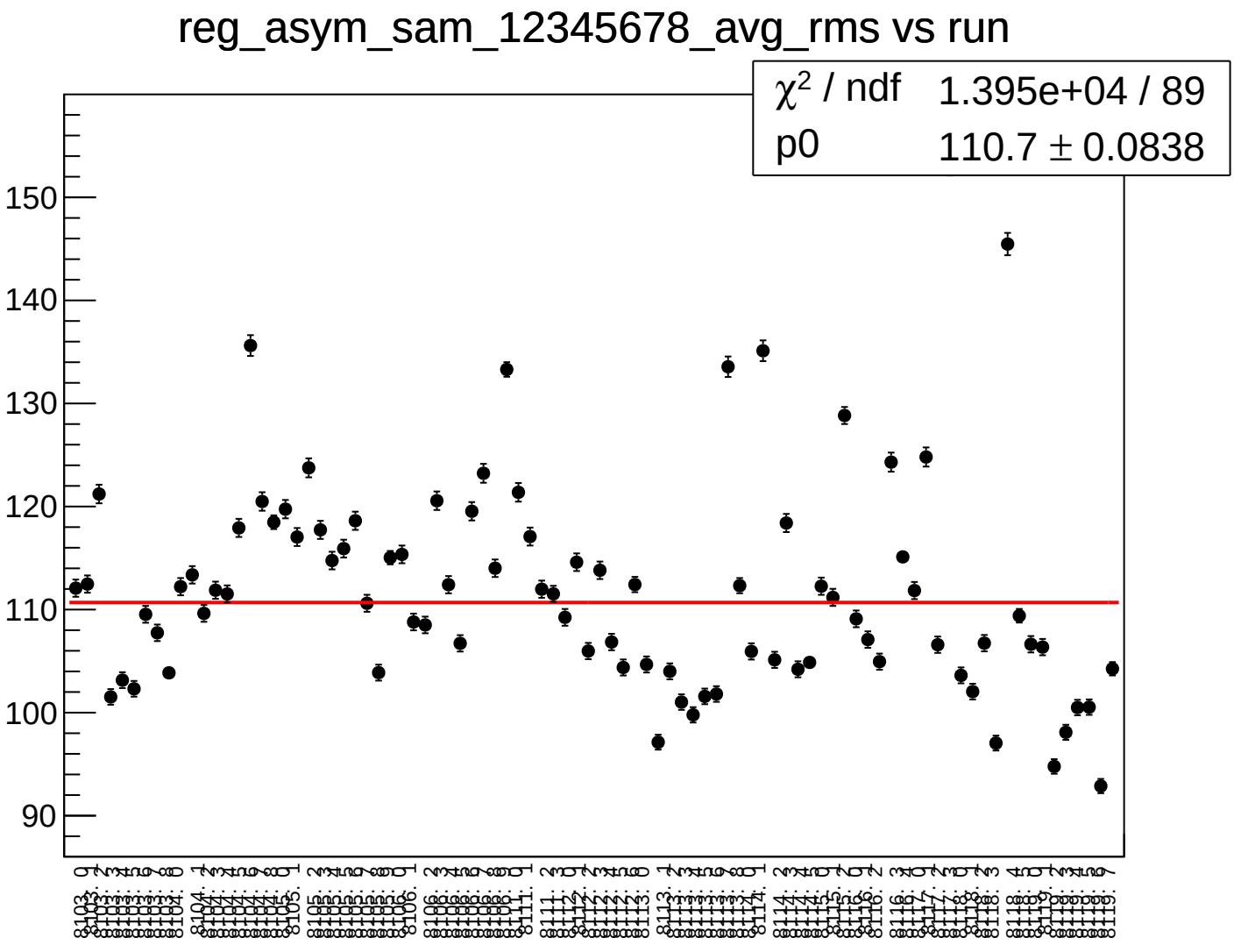

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.74 / 89
p0 1.284e−14 ± 2.745e−14
pull
Entries 90
Mean 70.32
Std Dev 14.17

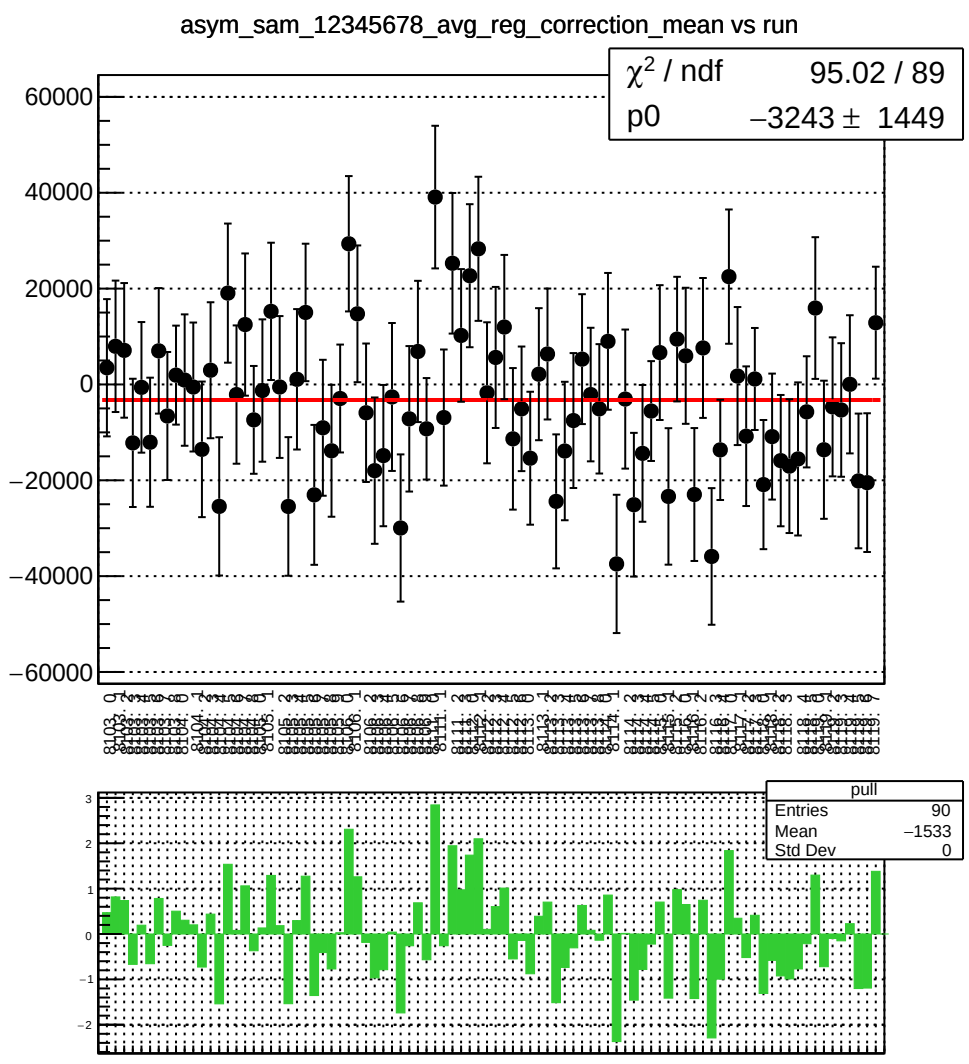

pull1D
Entries 90
Mean −0.09181
Std Dev 0.8627

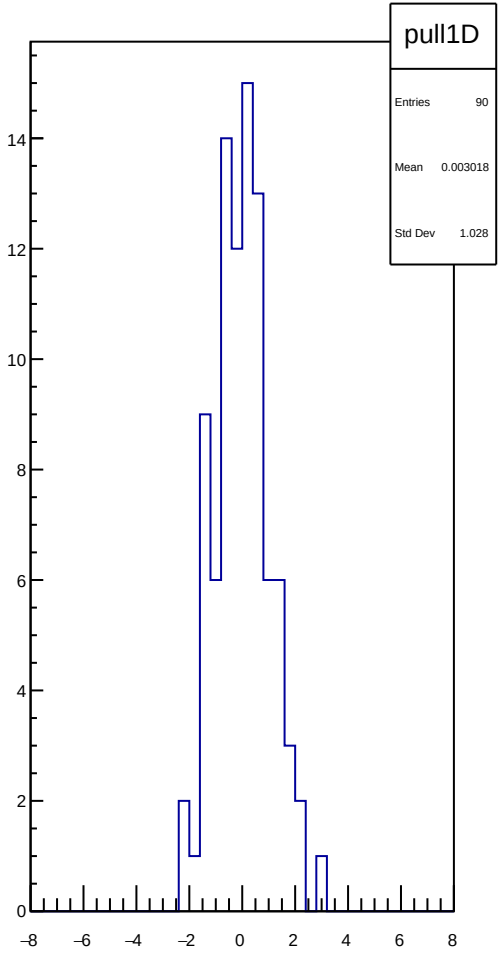

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.749e+05 / 89
p0 2.199e−11 ± 1.941e−14
0.1
0.08
0.06
0.04
0.02

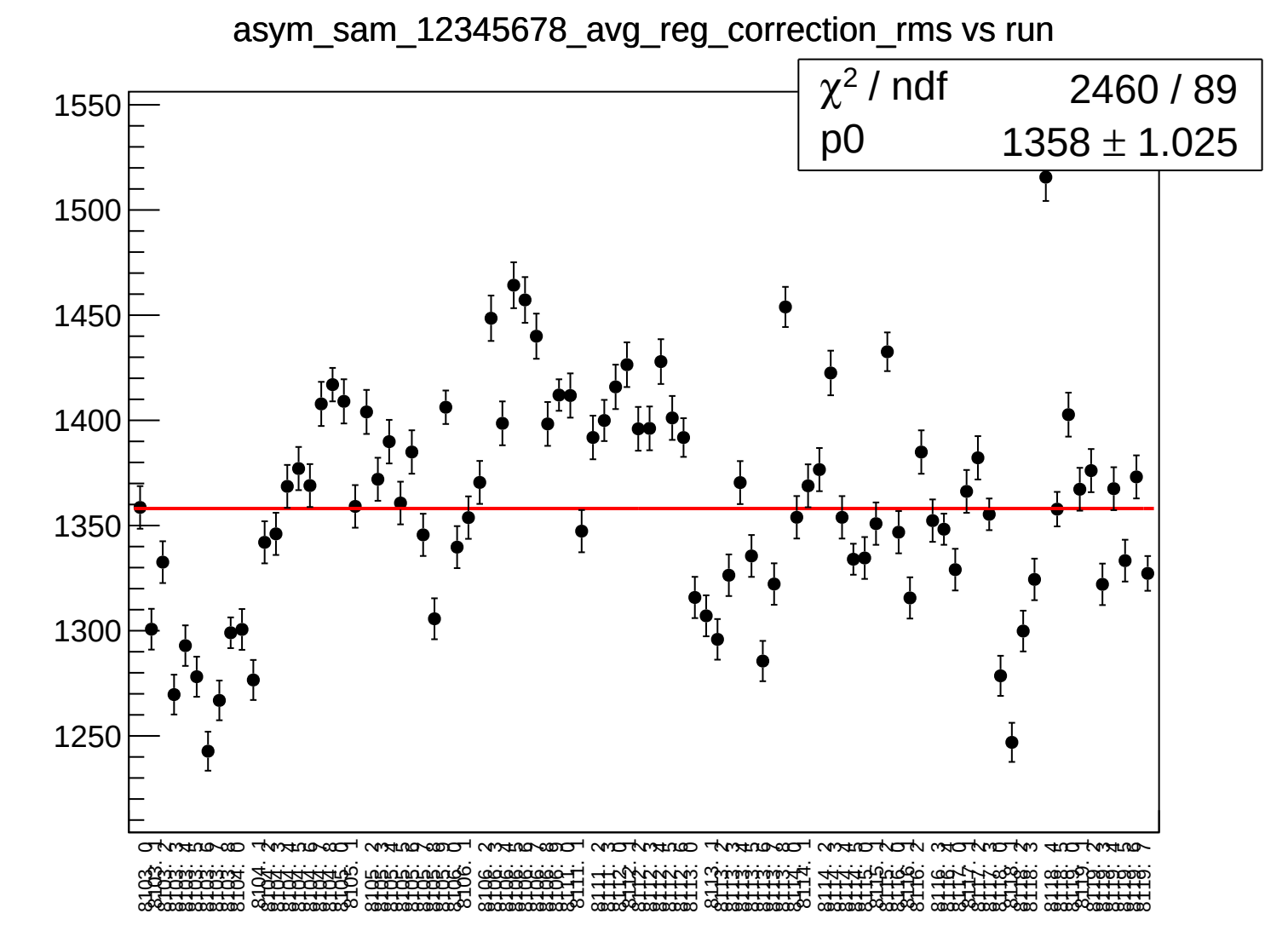

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 92.13 / 89
p0 −105.2 ± 118.5
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −155.1
Std Dev 0
2
1
0
−1
−2

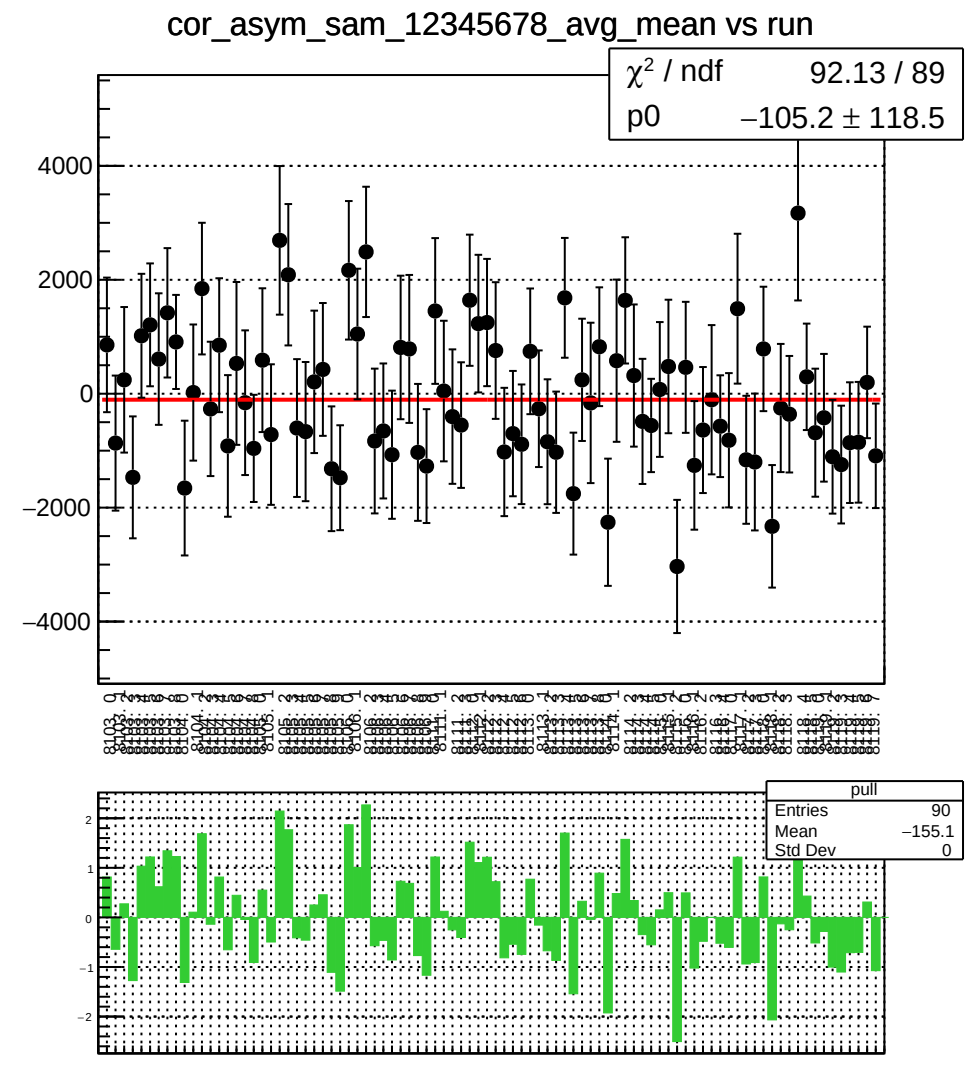

pull1D
Entries 90
Mean 0.03228
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

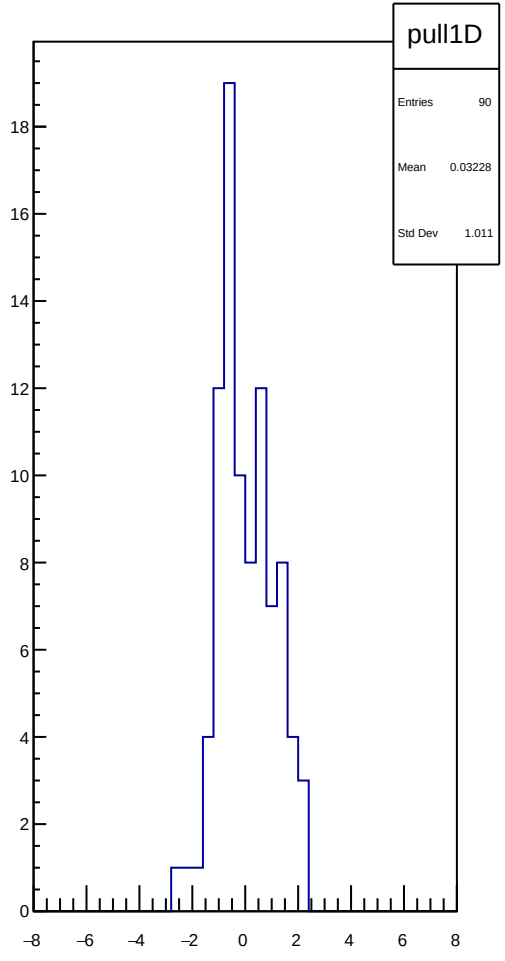

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.395e+04 / 89
p0 110.7 ± 0.0838
150
140
130
120
110
100
90

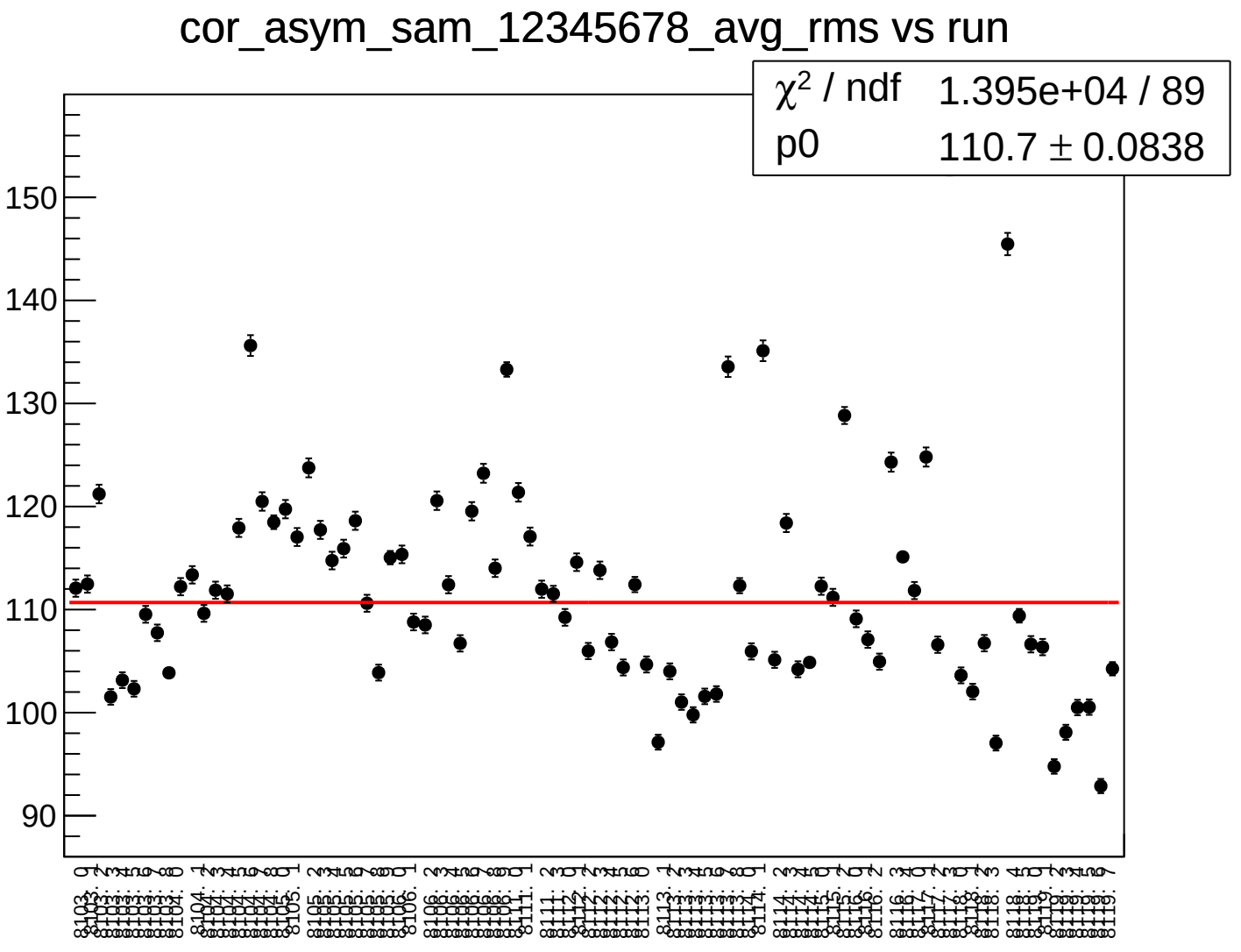

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 95.02 / 89
p0 −3243 ± 1449
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1533
Std Dev 0
3
2
1
0
−1
−2

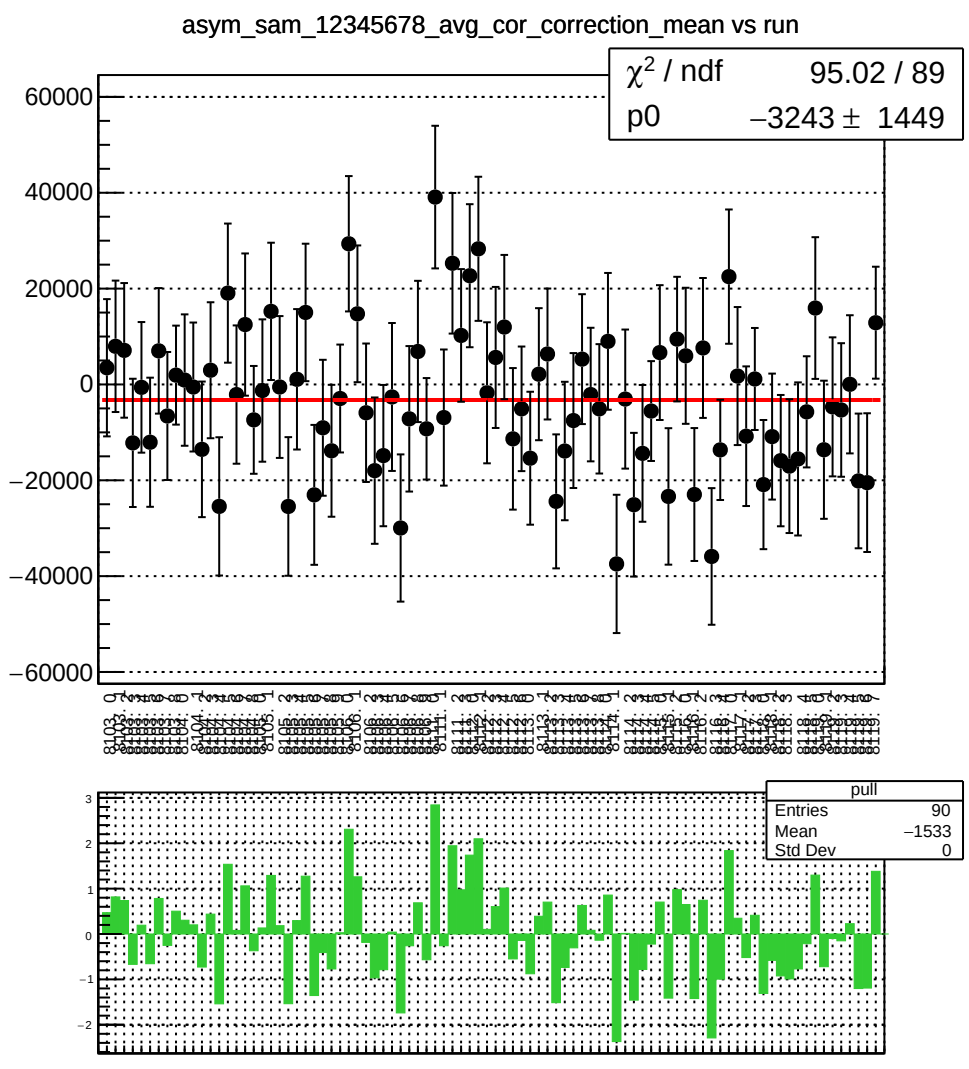

pull1D
Entries 90
Mean 0.003018
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

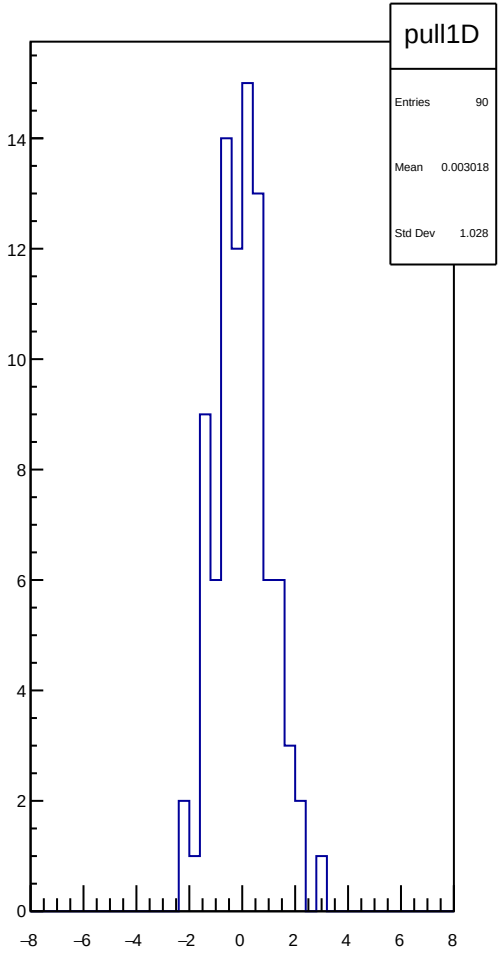

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 2460 / 89
p0 1358 ± 1.025
1550
1500
1450
1400
1350
1300
1250

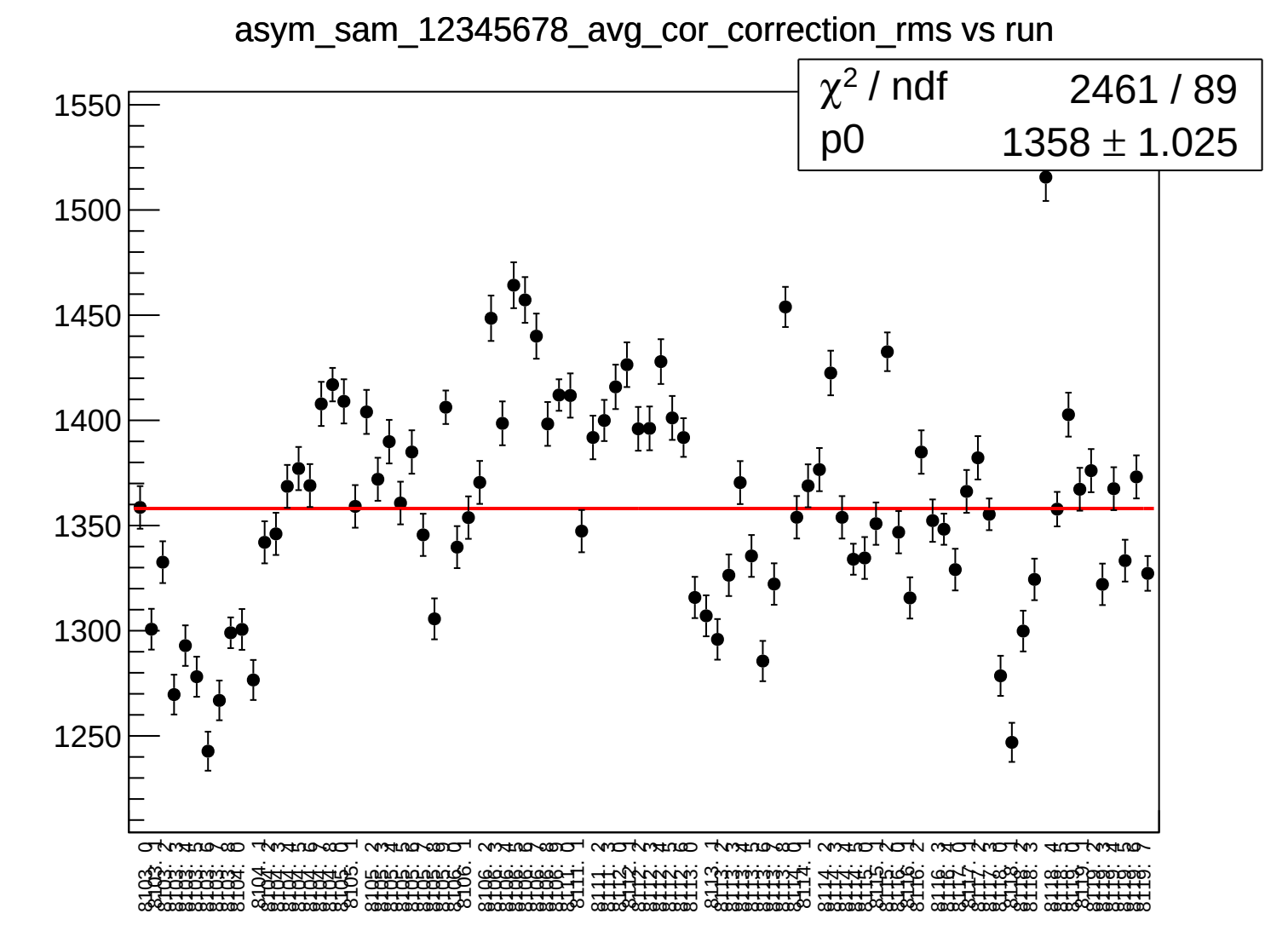

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 92.13 / 89
p0 −105.2 ± 118.5
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −155.1
Std Dev 0
2
1
0
−1
−2

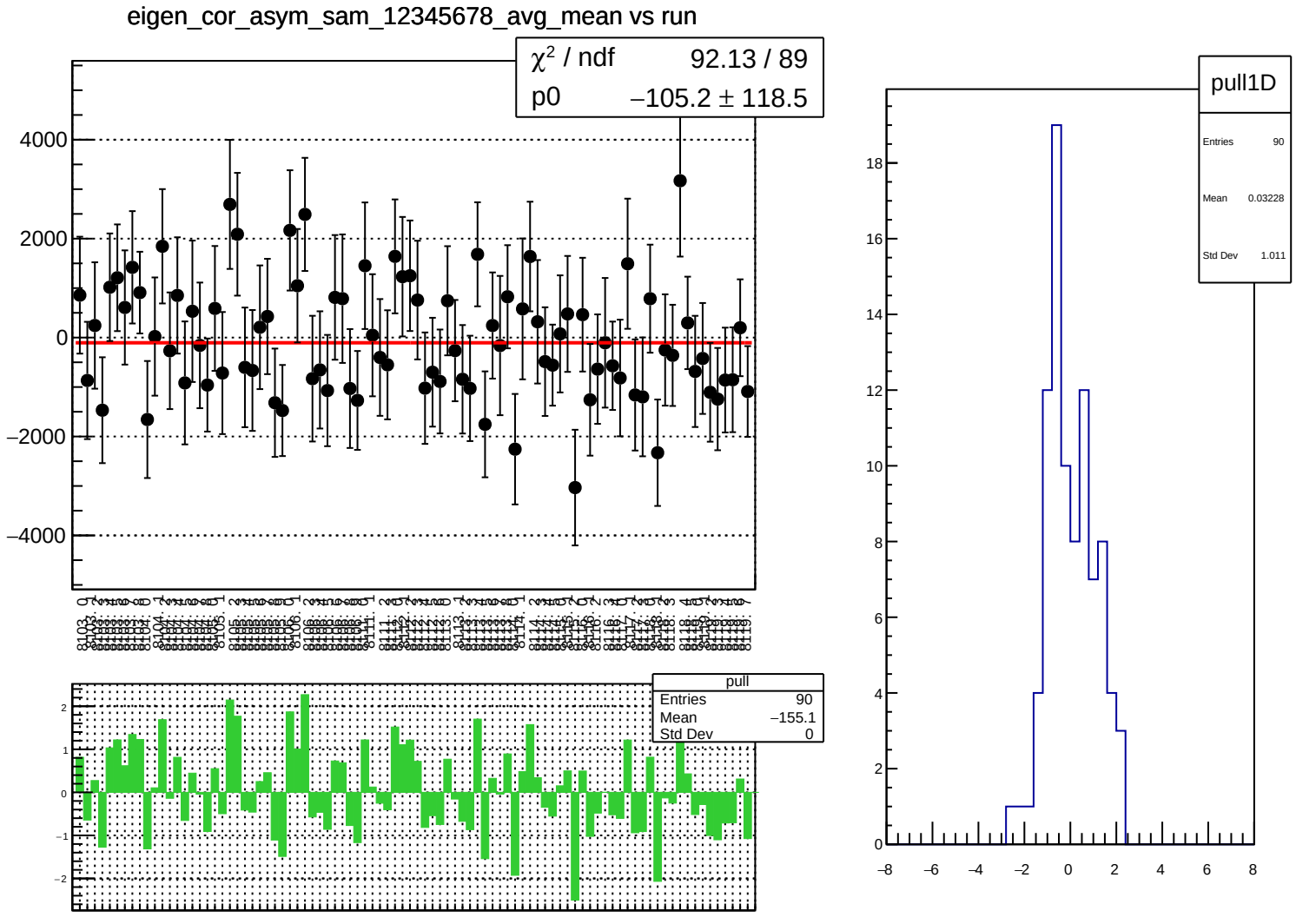

pull1D
Entries 90
Mean 0.03228
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

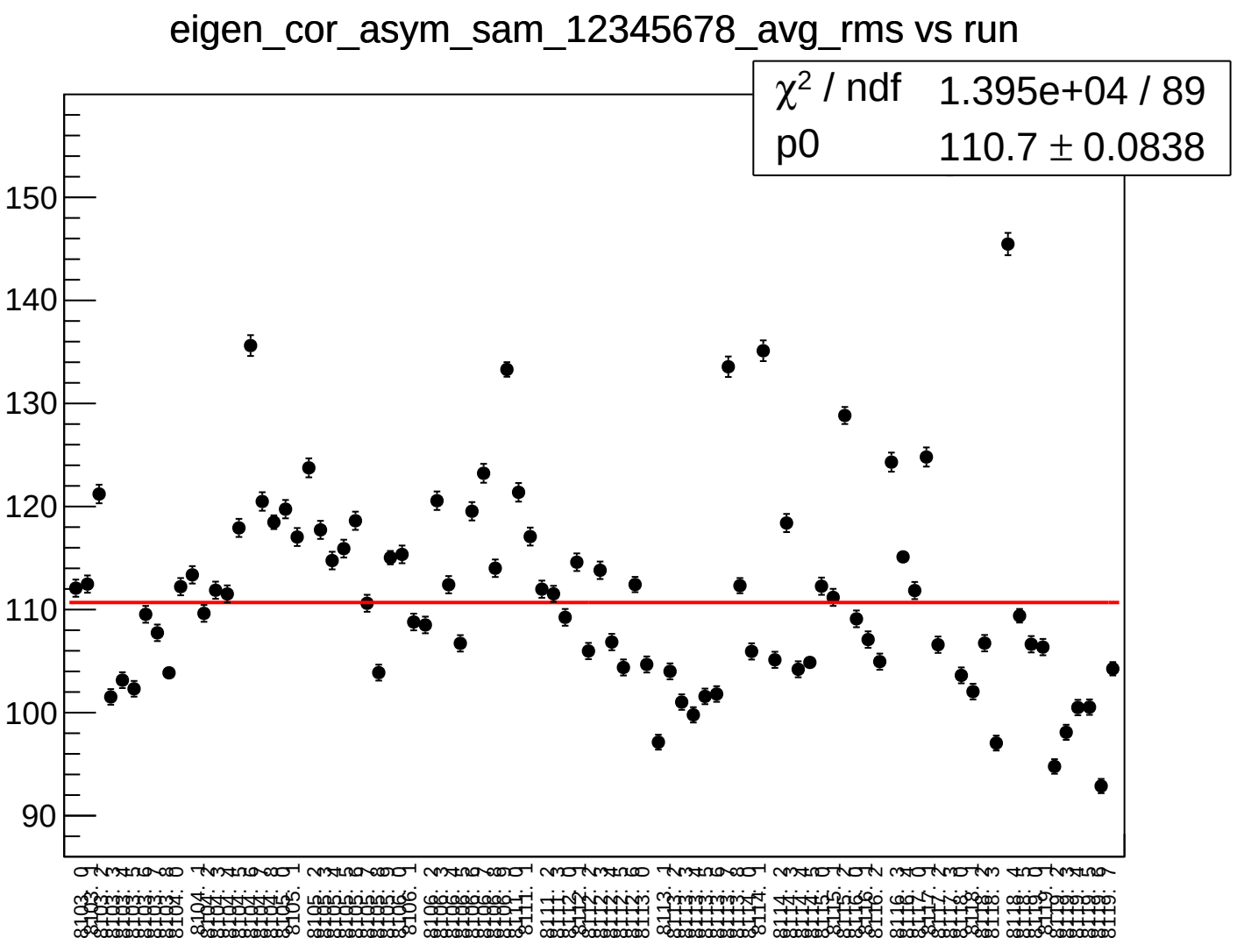

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.395e+04 / 89
p0 110.7 ± 0.0838
150
140
130
120
110
100
90

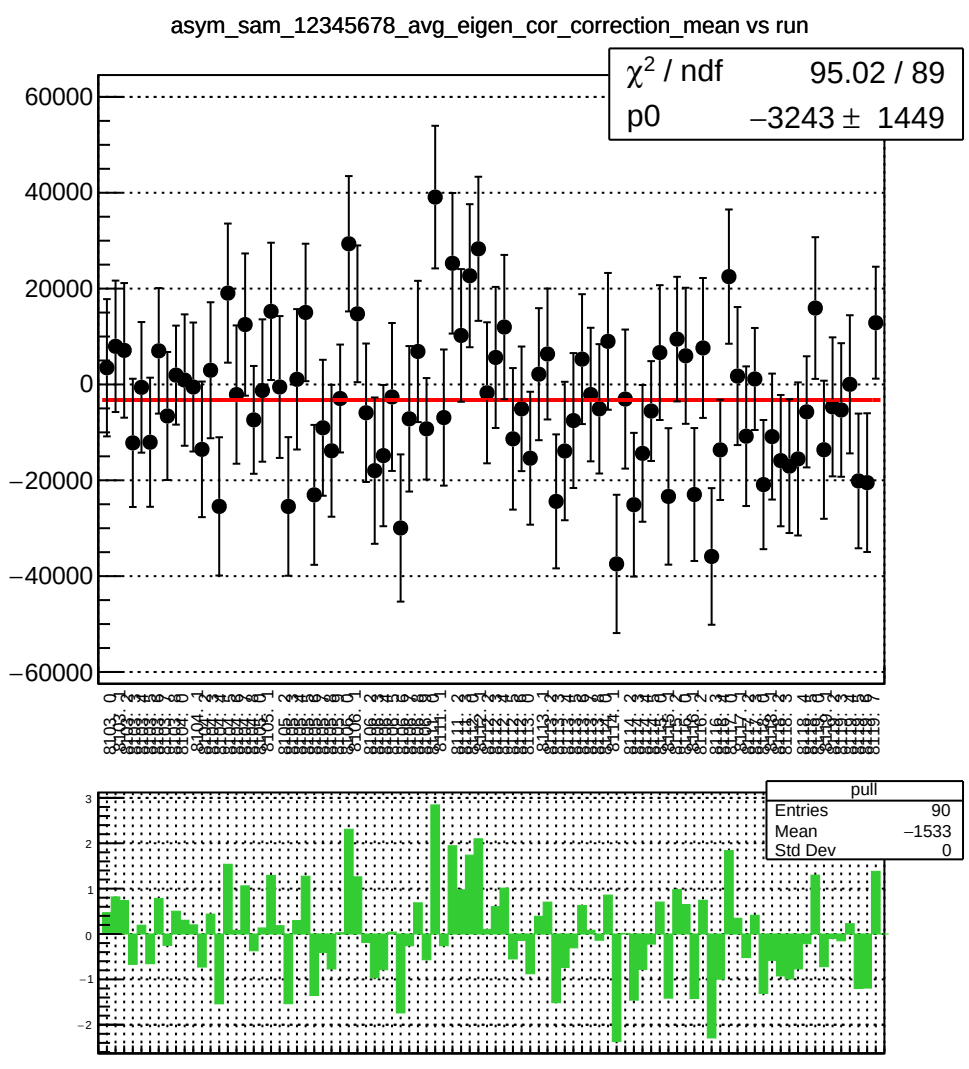

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 95.02 / 89
p0 −3243 ± 1449
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −1533
Std Dev 0
3
2
1
0
−1
−2

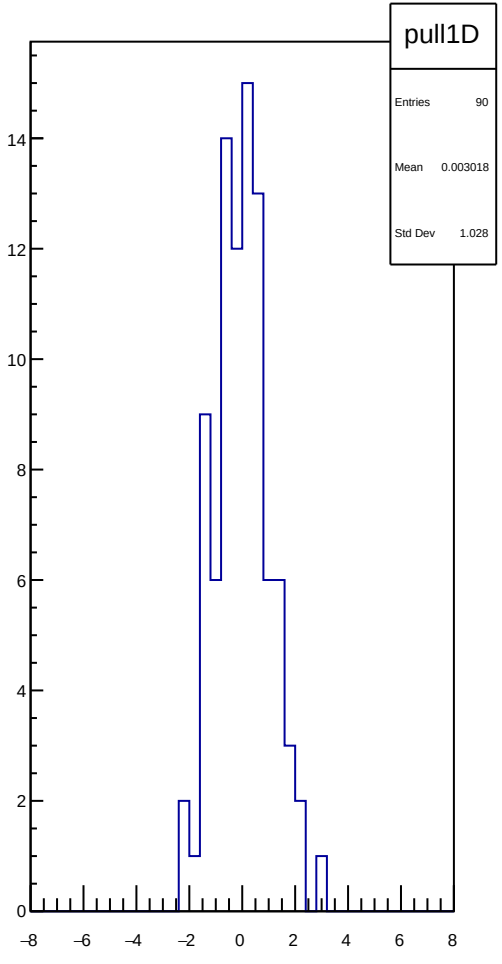

pull1D
Entries 90
Mean 0.003018
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

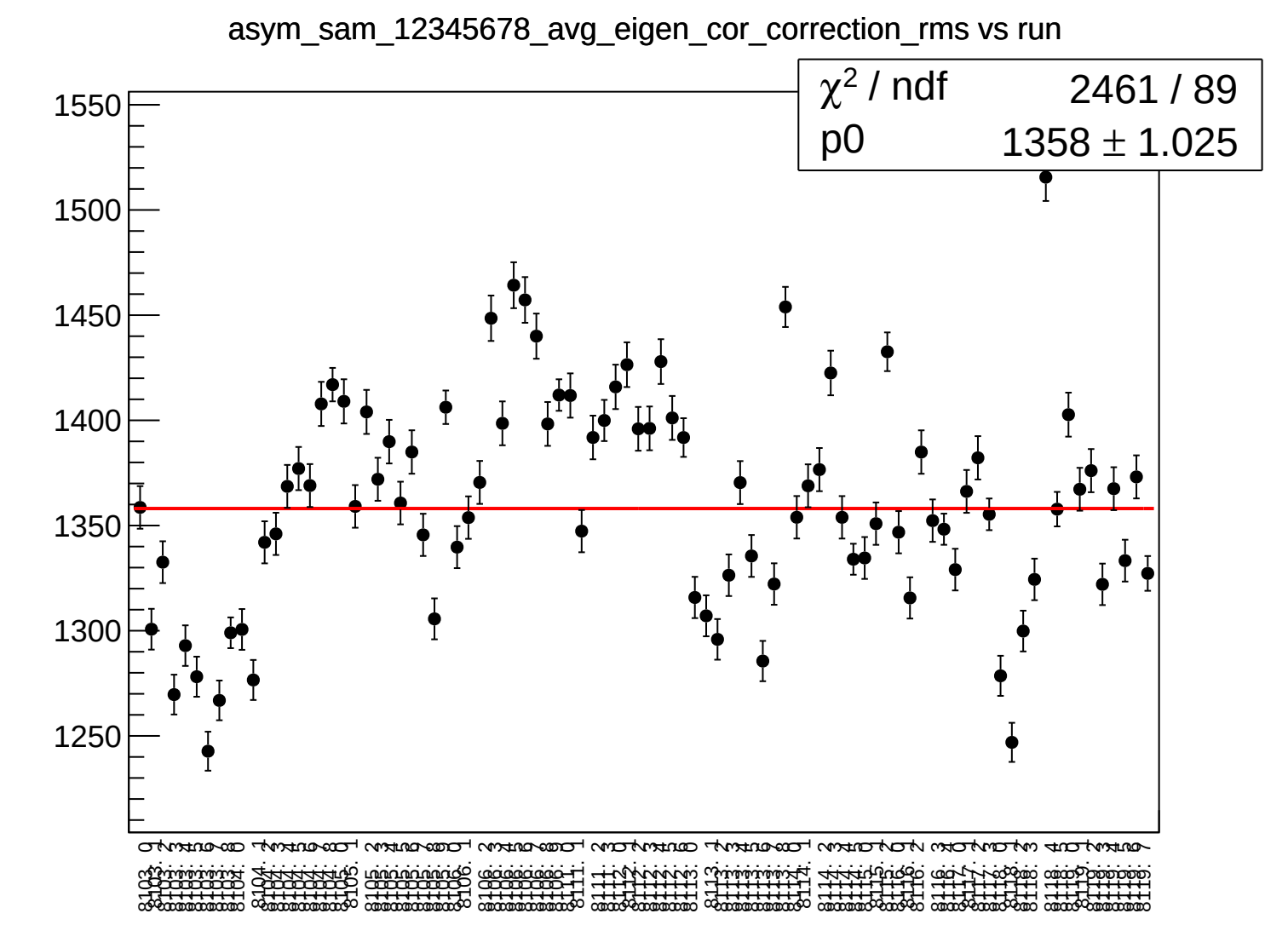

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 2461 / 89
p0 1358 ± 1.025
1550
1500
1450
1400
1350
1300
1250

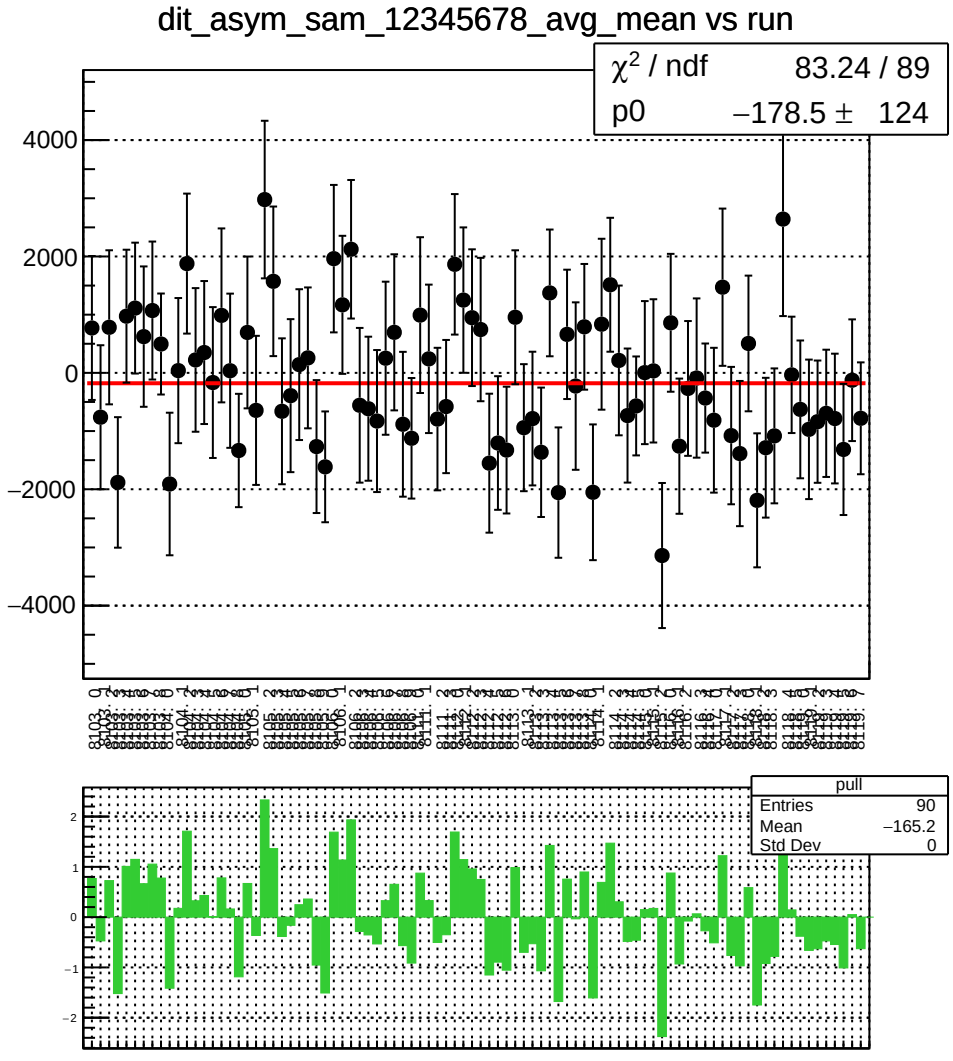

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 92.13 / 89
p0 −105.2 ± 118.5
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −155.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.03228
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

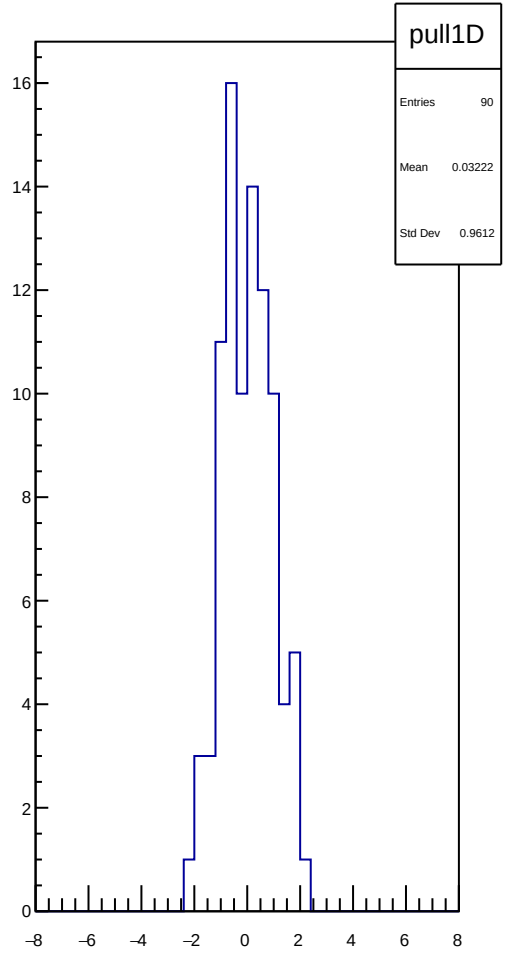

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.395e+04 / 89
p0 110.7 ± 0.0838
150
140
130
120
110
100
90

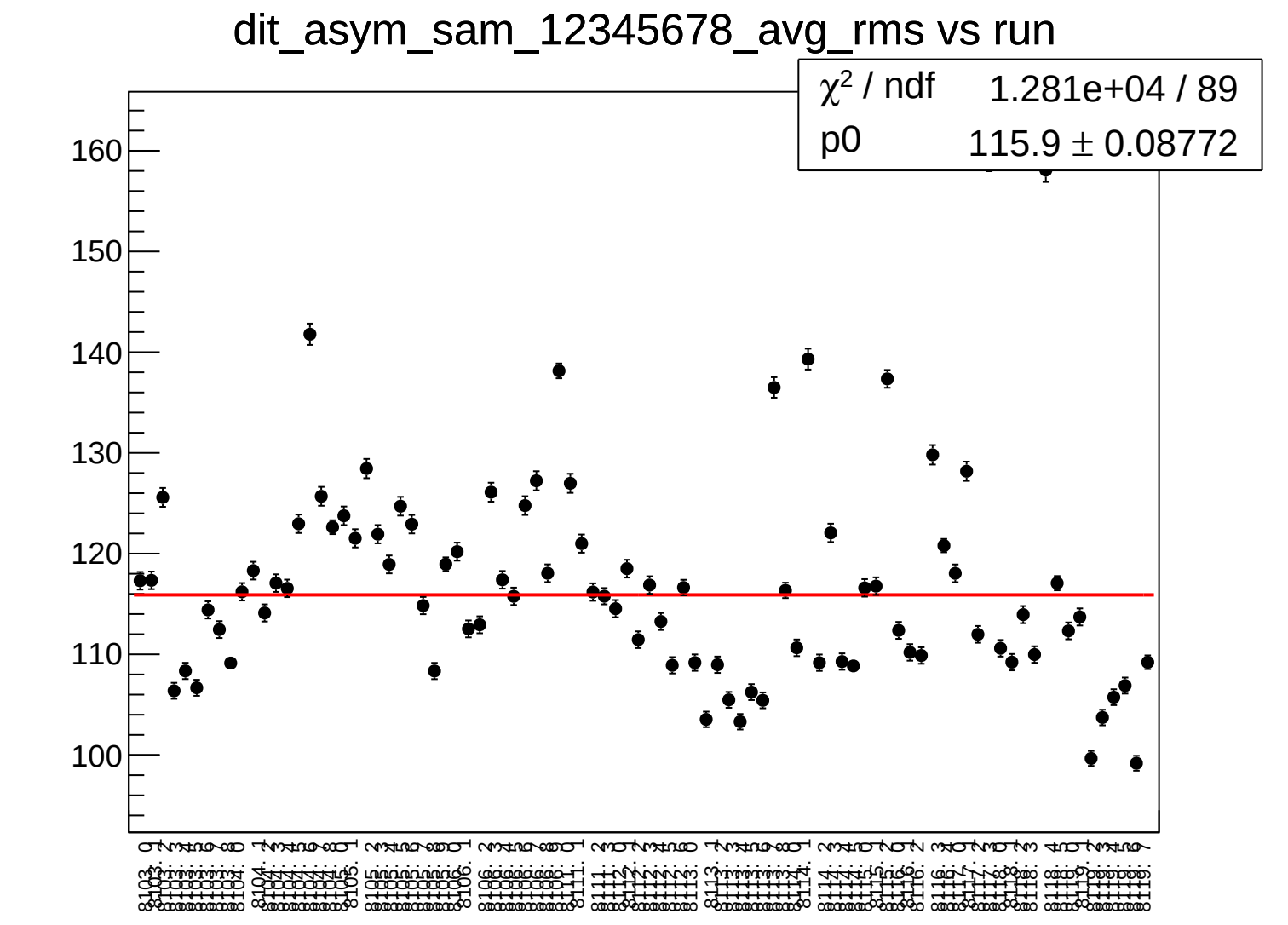

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.02 / 89
p0 −3243 ± 1449
pull
Entries 90
Mean −1533
Std Dev 0

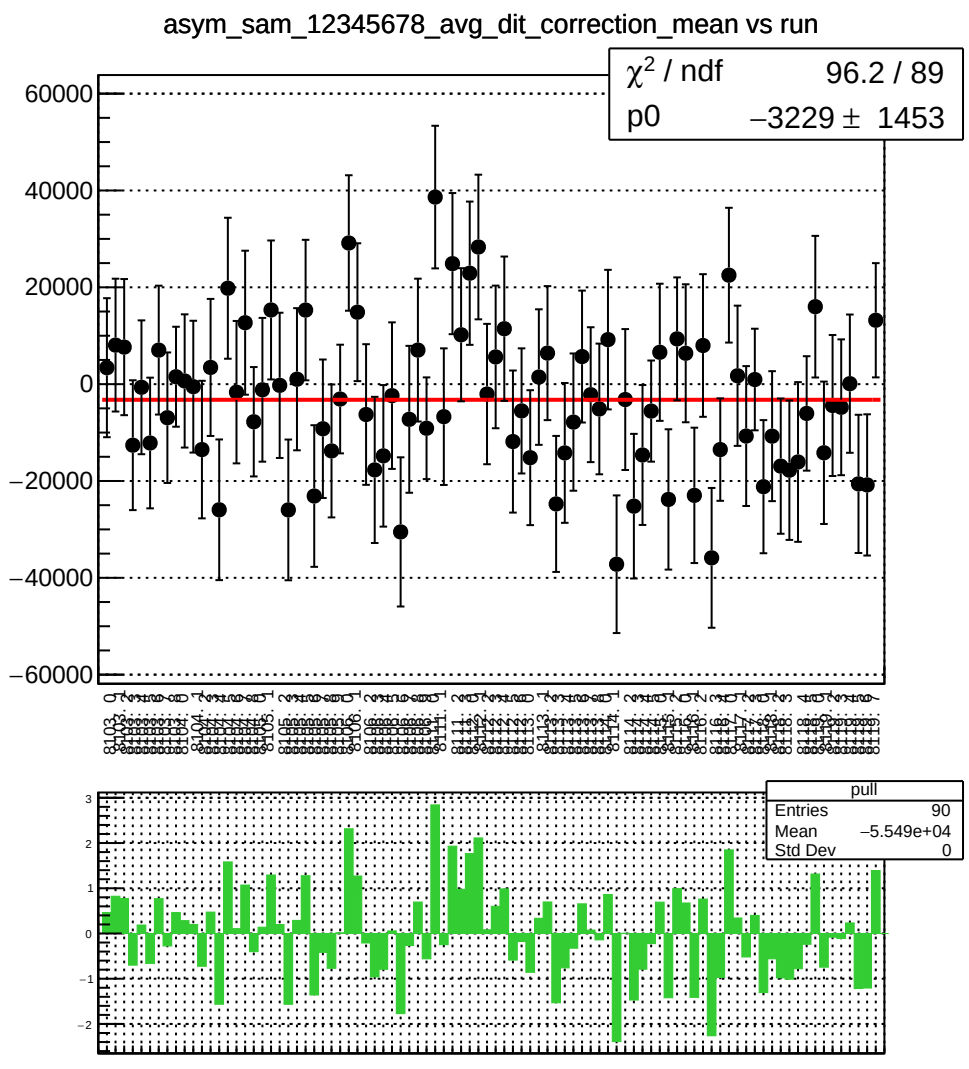

pull1D
Entries 90
Mean 0.003018
Std Dev 1.028

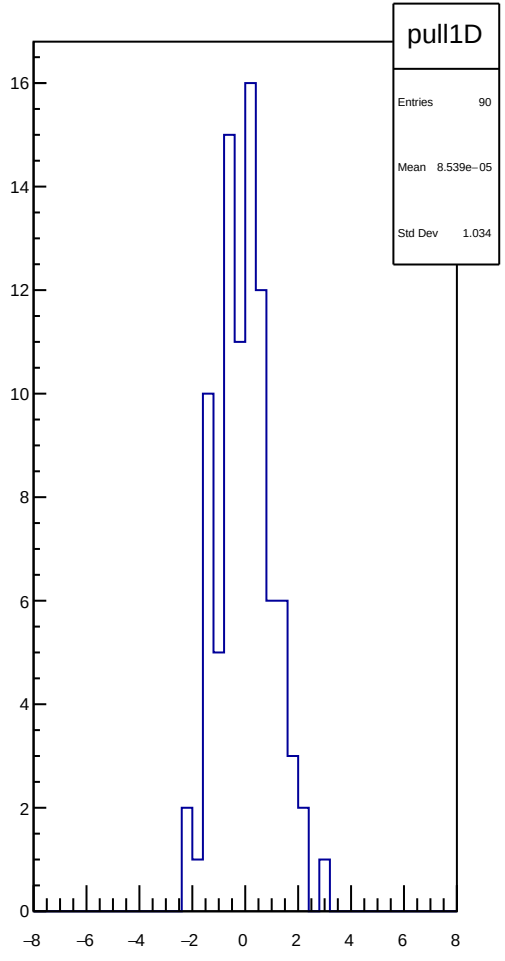

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 2461 / 89
p0 1358 ± 1.025
1550
1500
1450
1400
1350
1300
1250

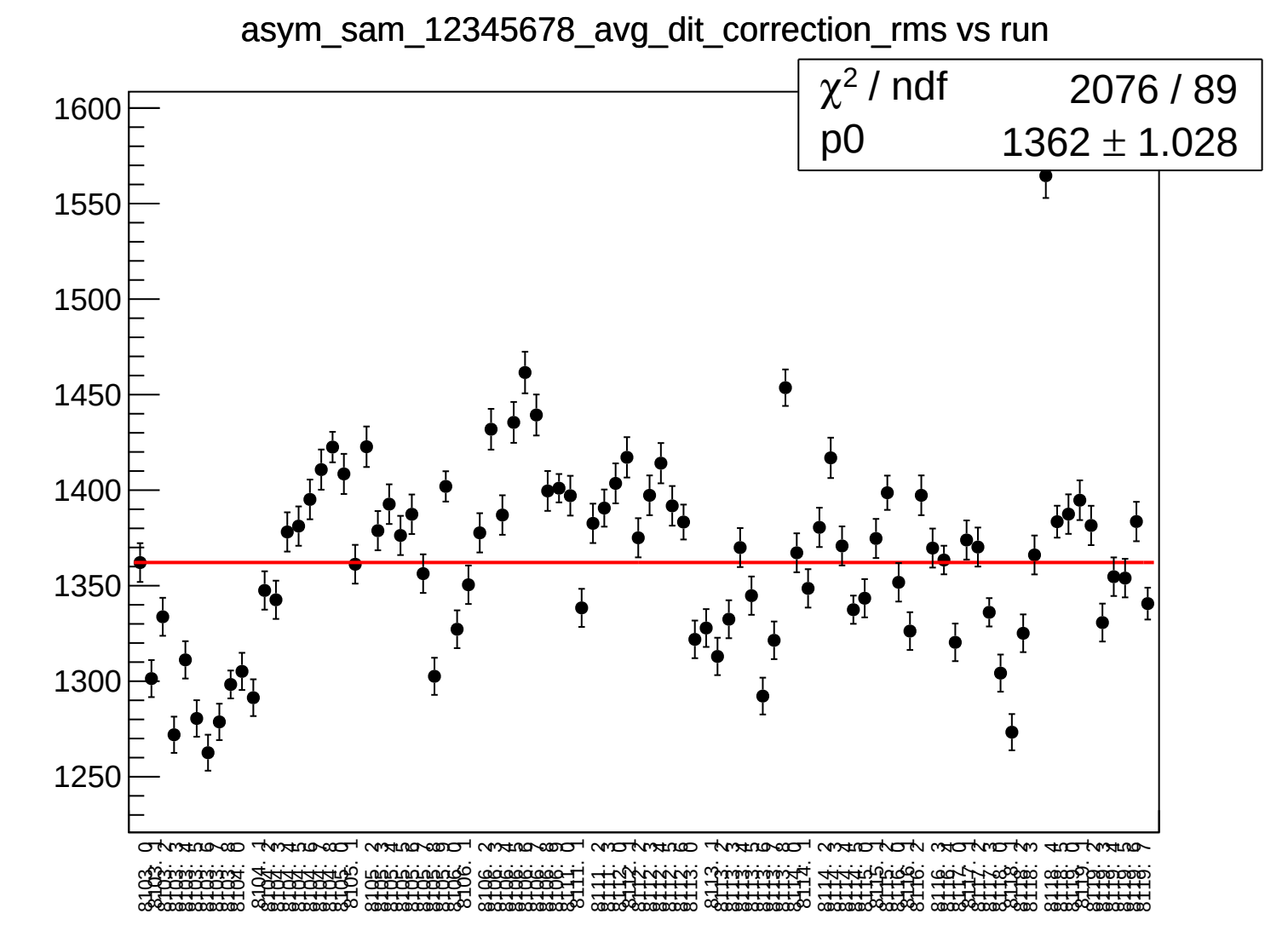

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 83.24 / 89
p0 −178.5 ± 124
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −165.2
Std Dev 0
2
1
0
−1
−2

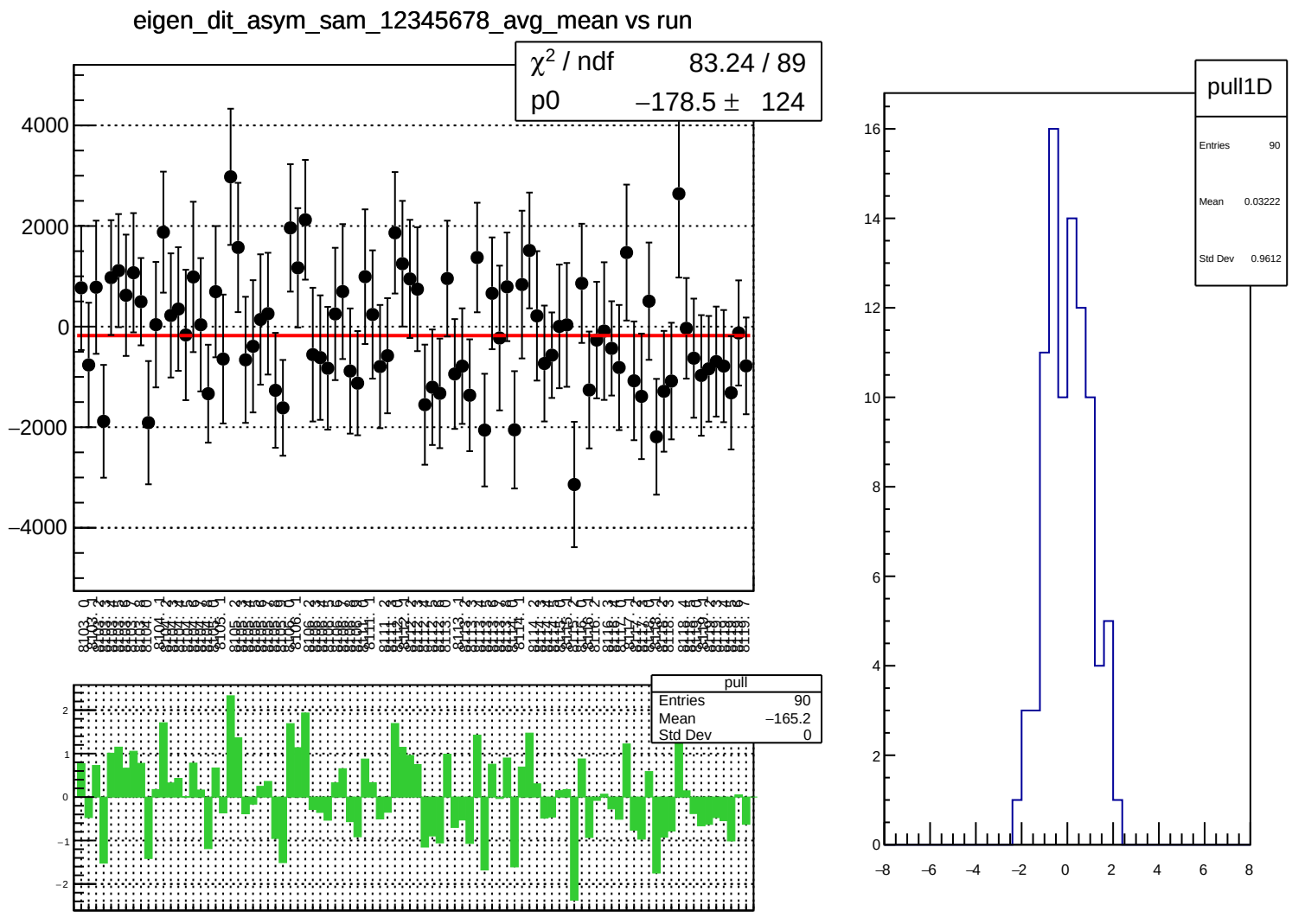

pull1D
Entries 90
Mean 0.03222
Std Dev 0.9612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

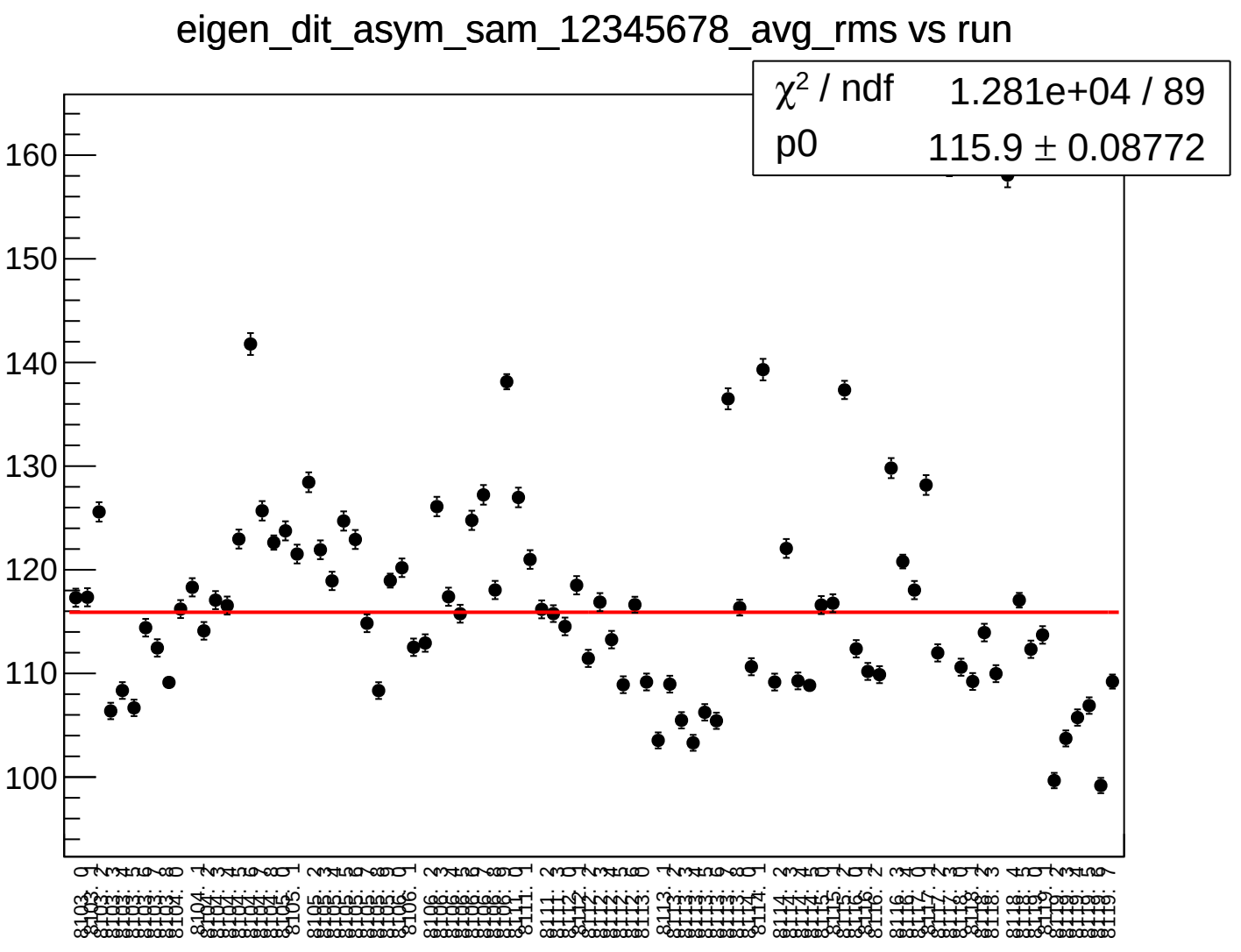

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.281e+04 / 89
p0 115.9 ± 0.08772
160
150
140
130
120
110
100

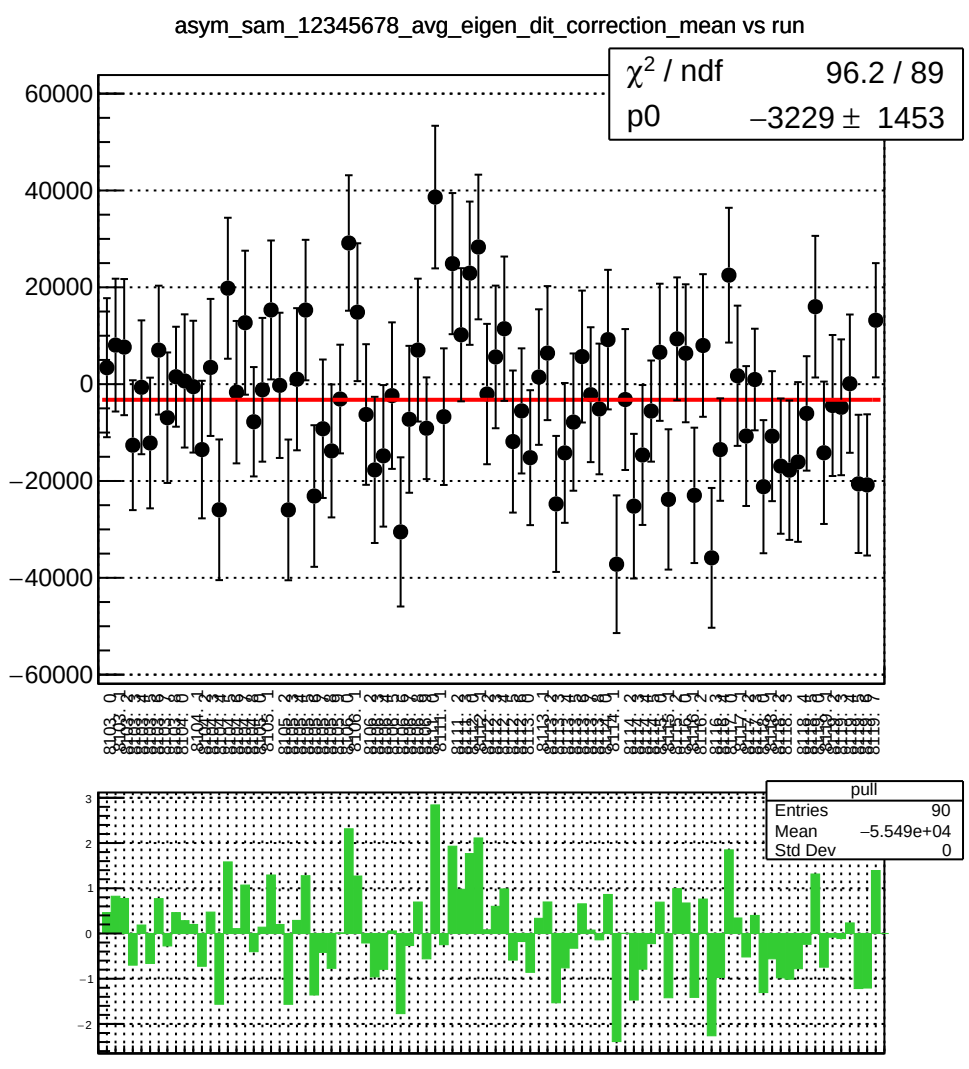

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 96.2 / 89
p0 −3229 ± 1453
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −5.549e+04
Std Dev 0
3
2
1
0
−1
−2

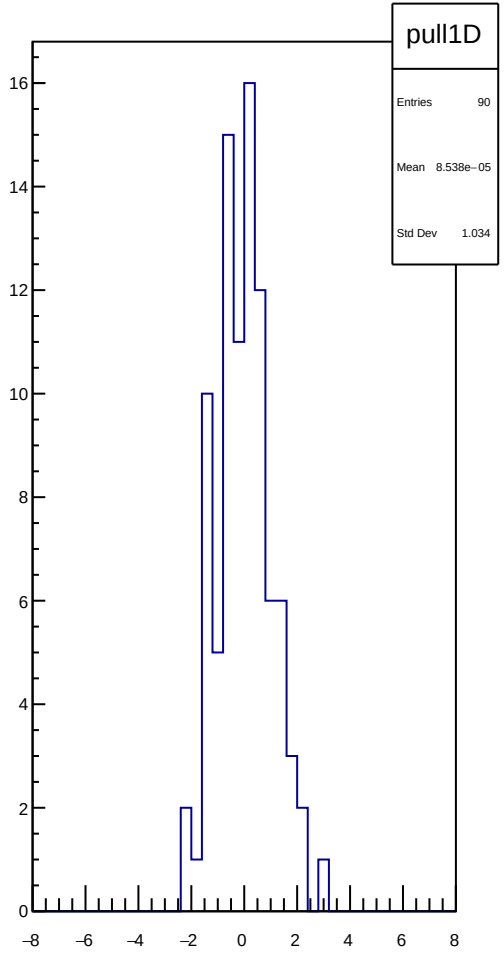

pull1D
Entries 90
Mean 8.539e−05
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

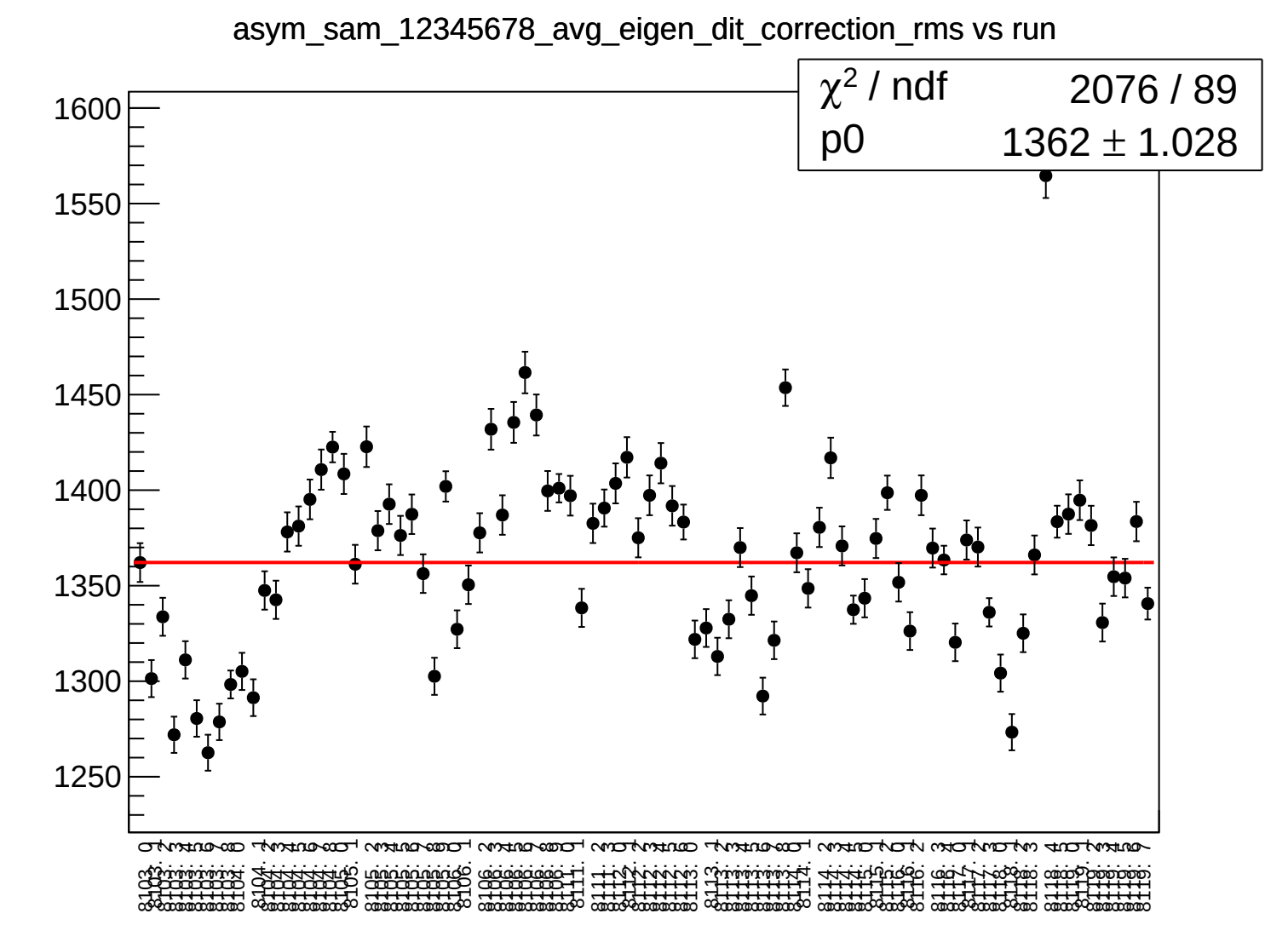

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 2076 / 89
p0 1362 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250

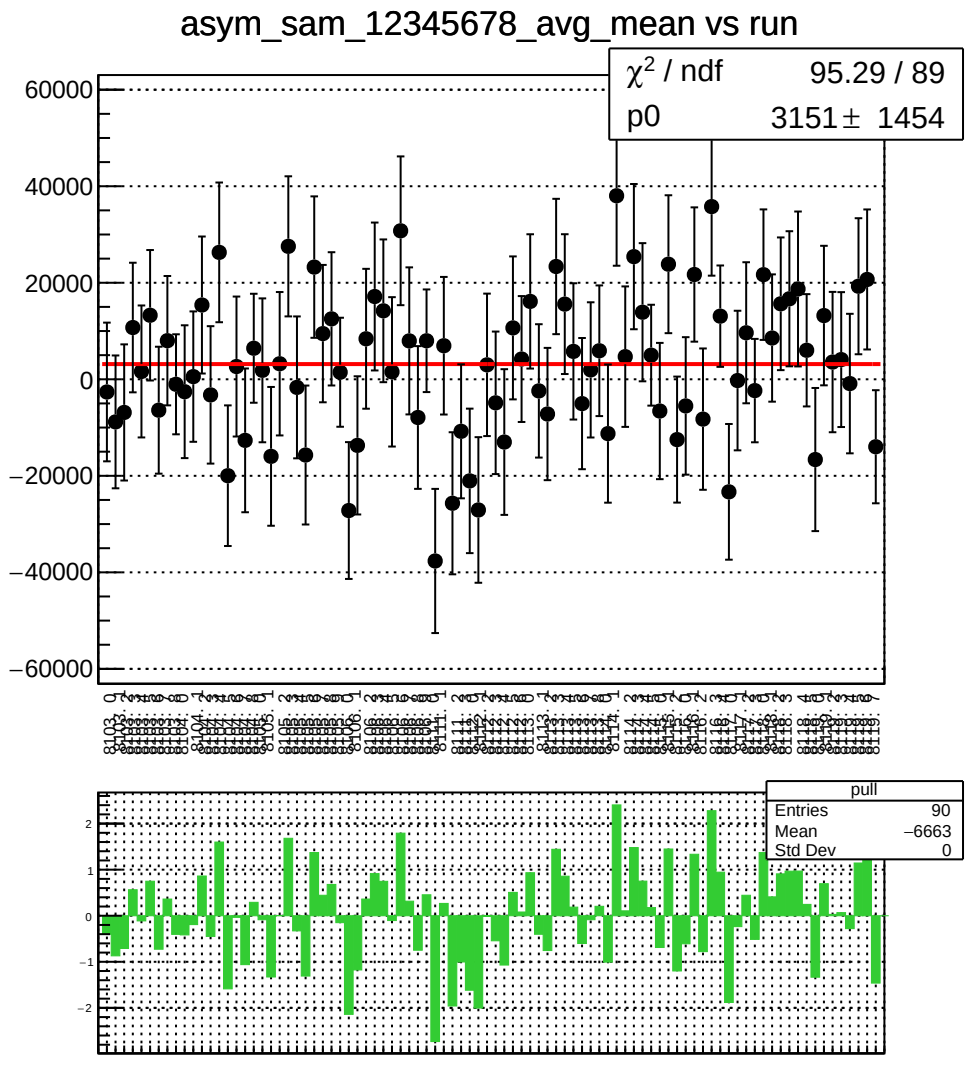

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 83.24 / 89
p0 −178.5 ± 124
4000
2000
0
−2000
−4000
pull
Entries 90
Mean −165.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.03222
Std Dev 0.9612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

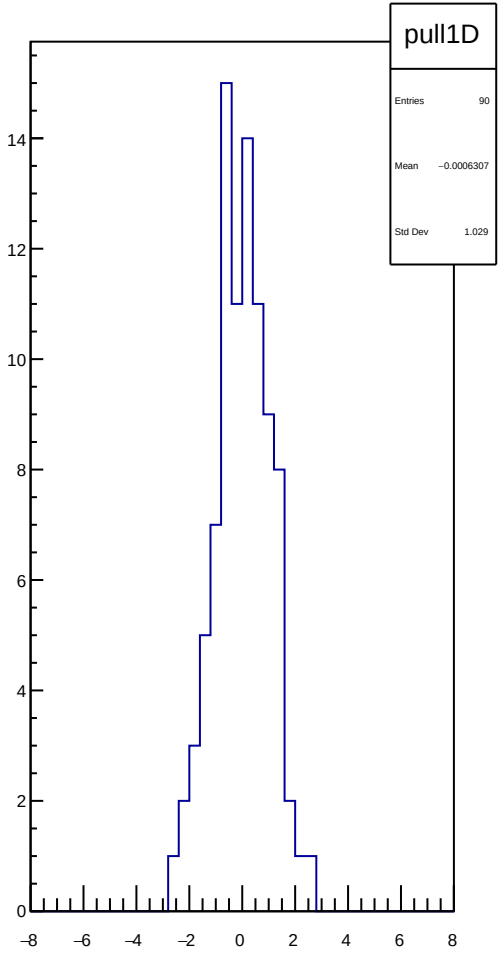

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.281e+04 / 89
p0 115.9 ± 0.08772
160
150
140
130
120
110
100

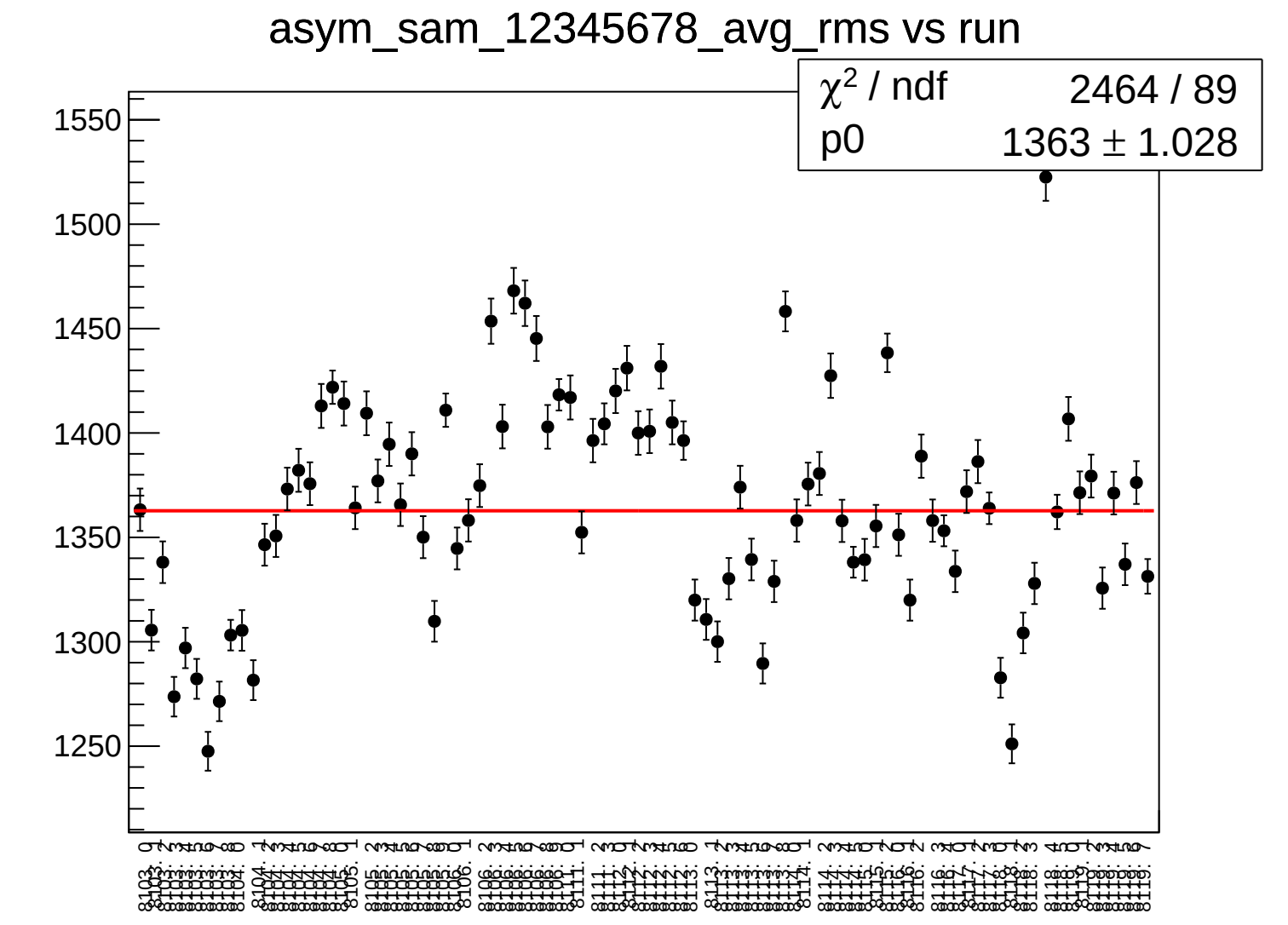

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.2 / 89
p0 −3229 ± 1453
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 90
Mean −5.549e+04
Std Dev 0
3
2
1
0
−1
−2

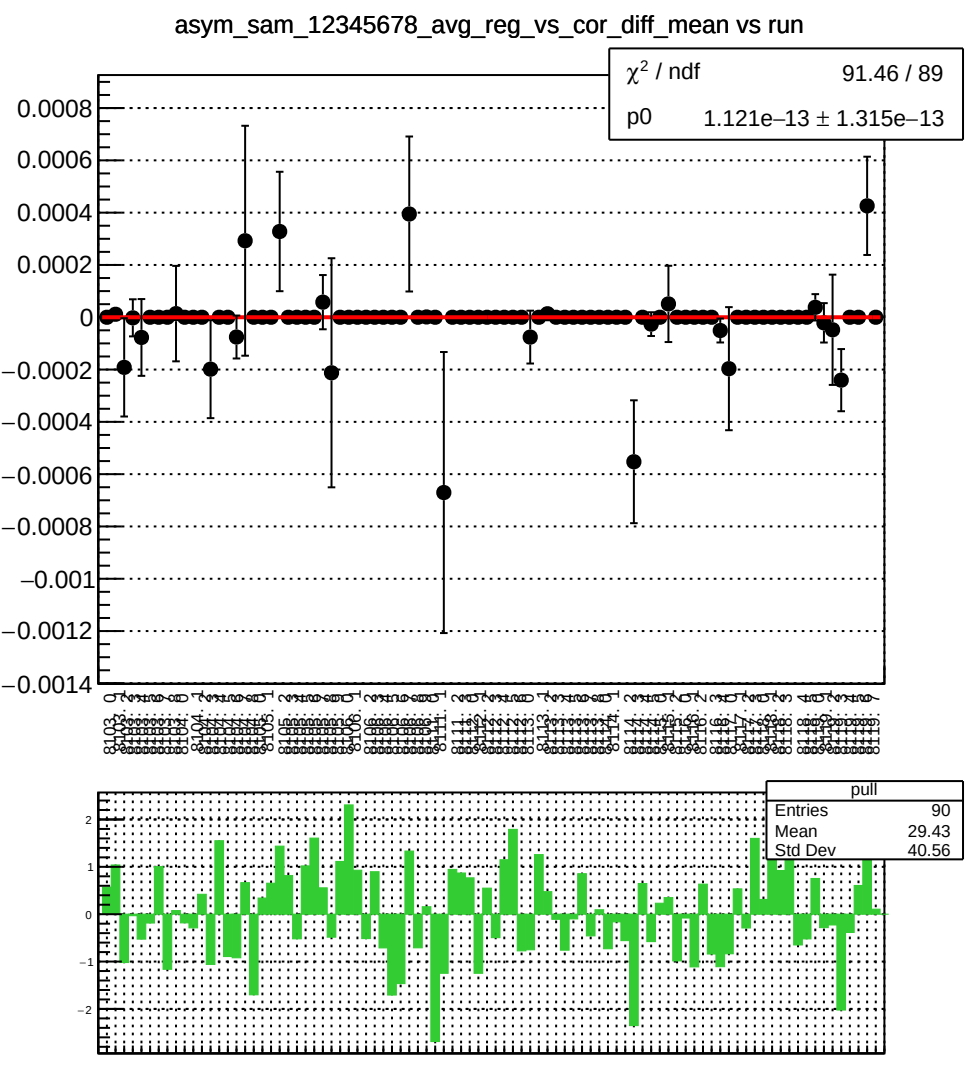

pull1D
Entries 90
Mean 8.538e−05
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

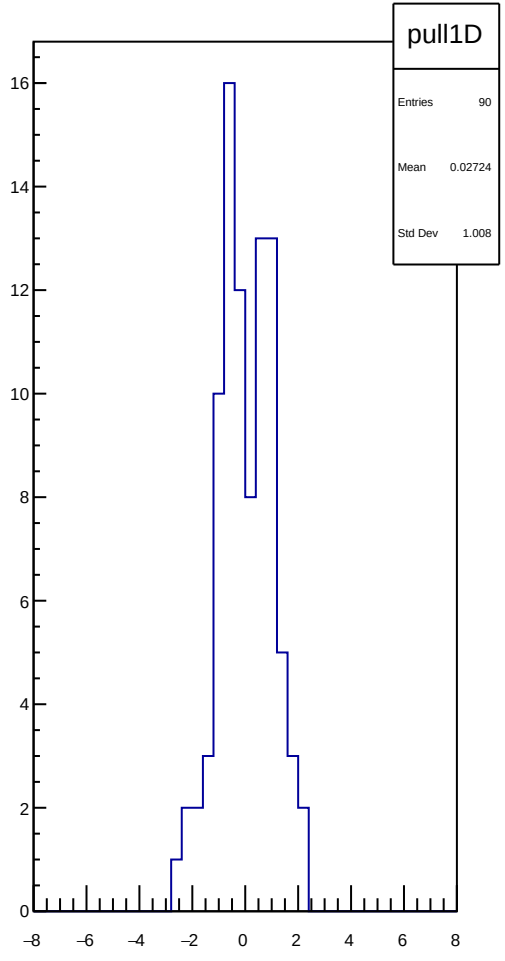

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2076 / 89
p0 1362 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250

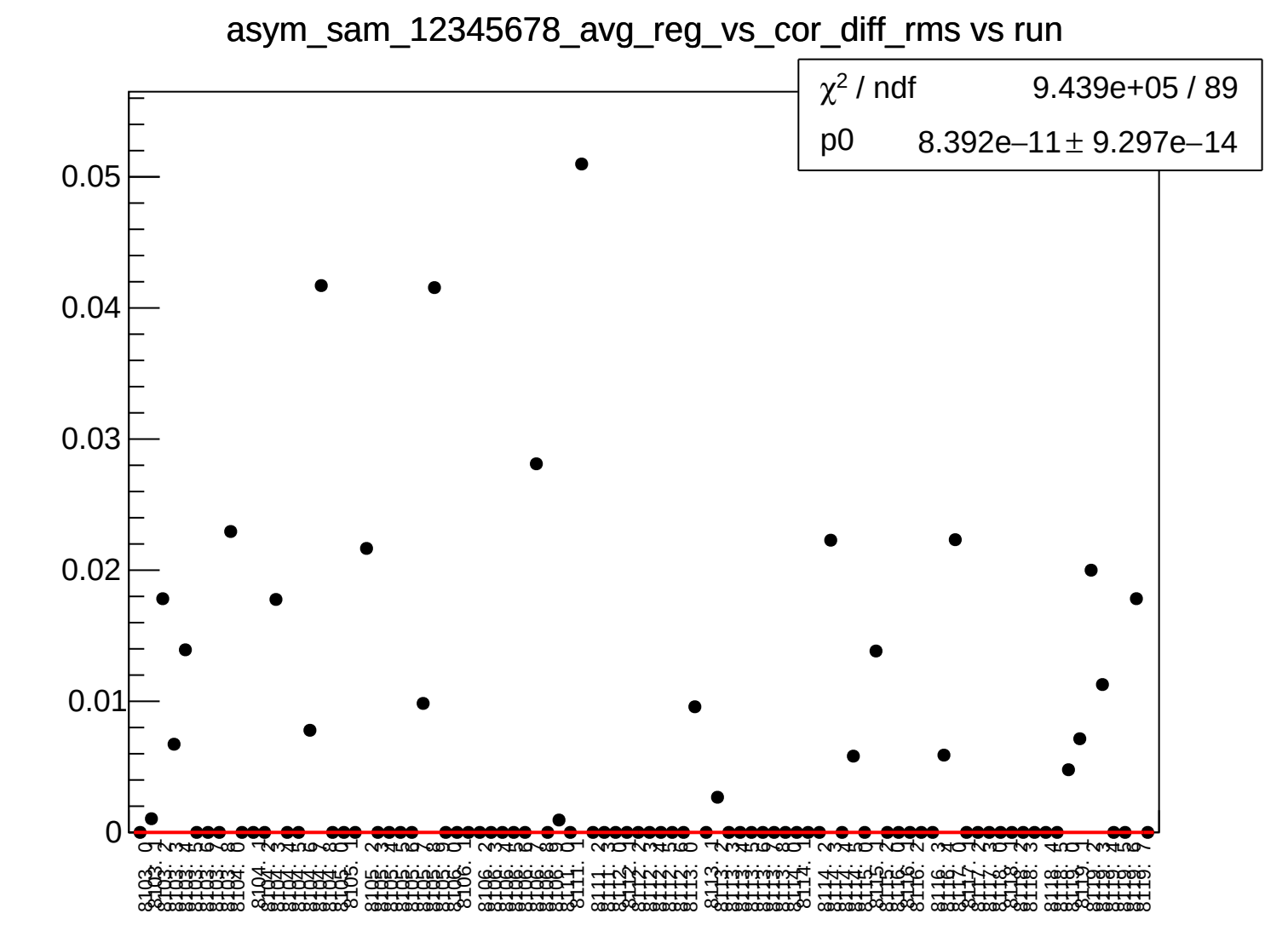

asym_sam_12345678_avg_mean vs run
χ² / ndf 95.29 / 89
p0 3151 ± 1454
pull
Entries 90
Mean −6663
Std Dev 0

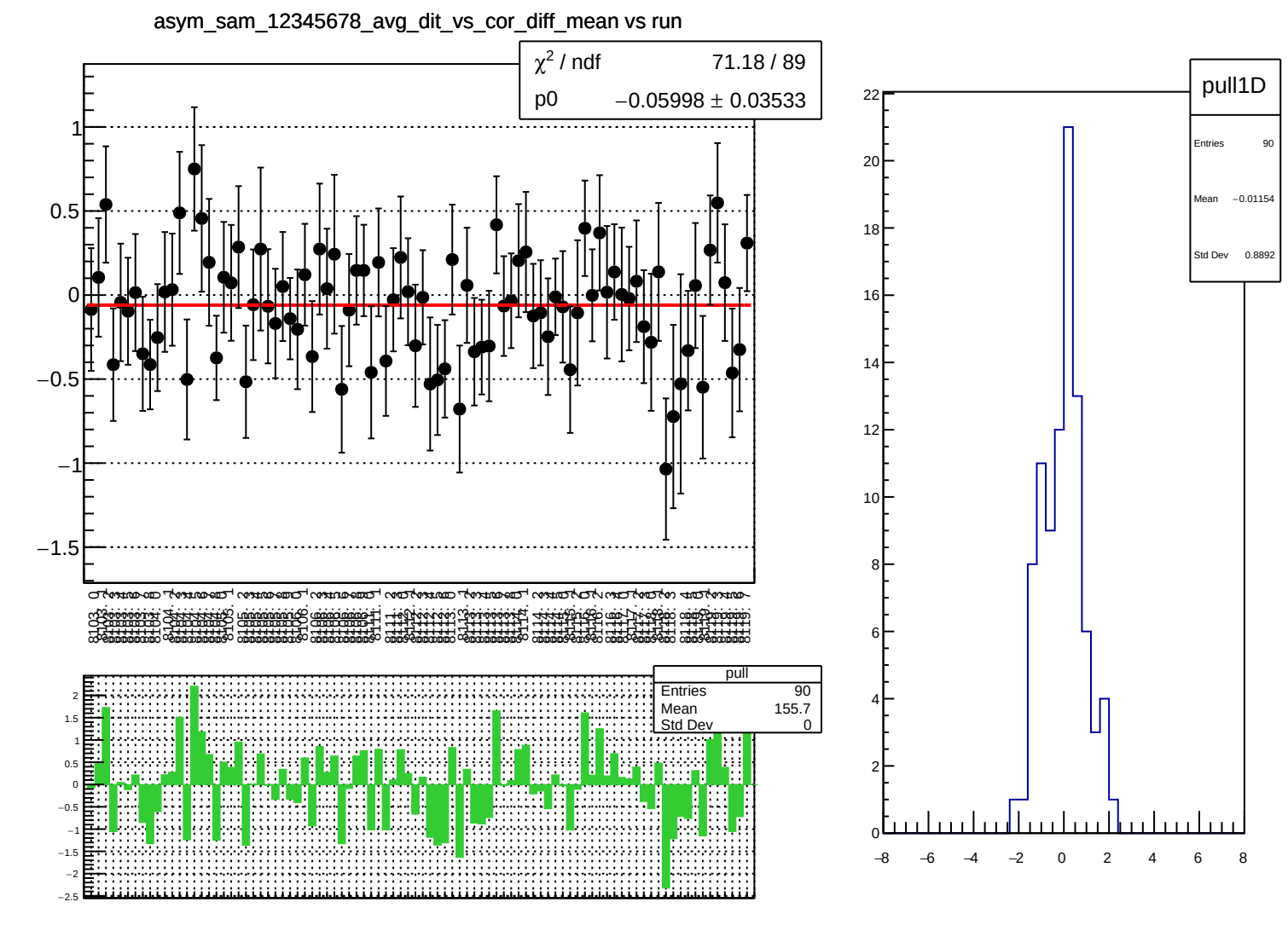

pull1D
Entries 90
Mean −0.0006307
Std Dev 1.029

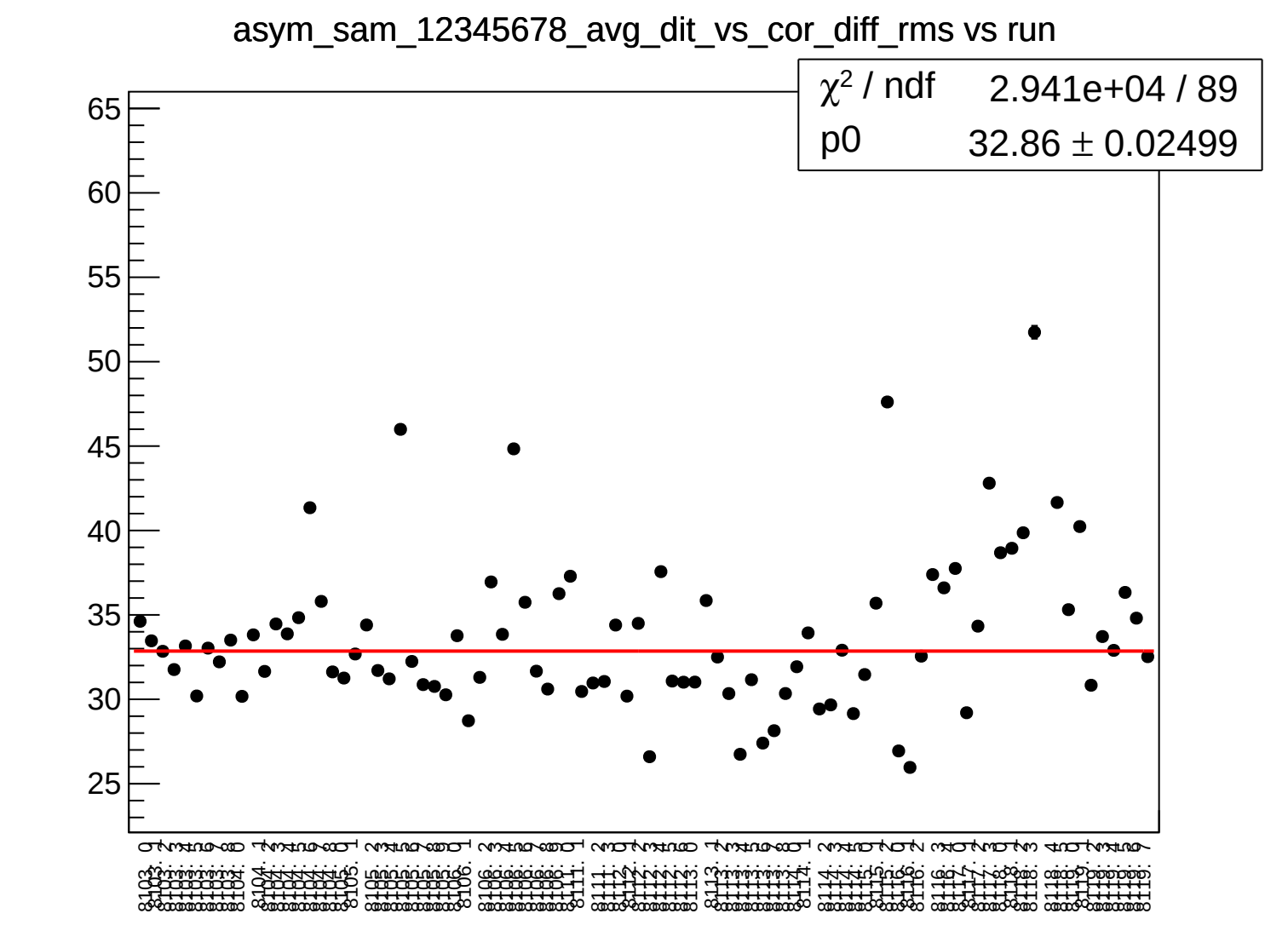

asym_sam_12345678_avg_rms vs run
χ² / ndf 2464 / 89
p0 1363 ± 1.028
1550
1500
1450
1400
1350
1300
1250

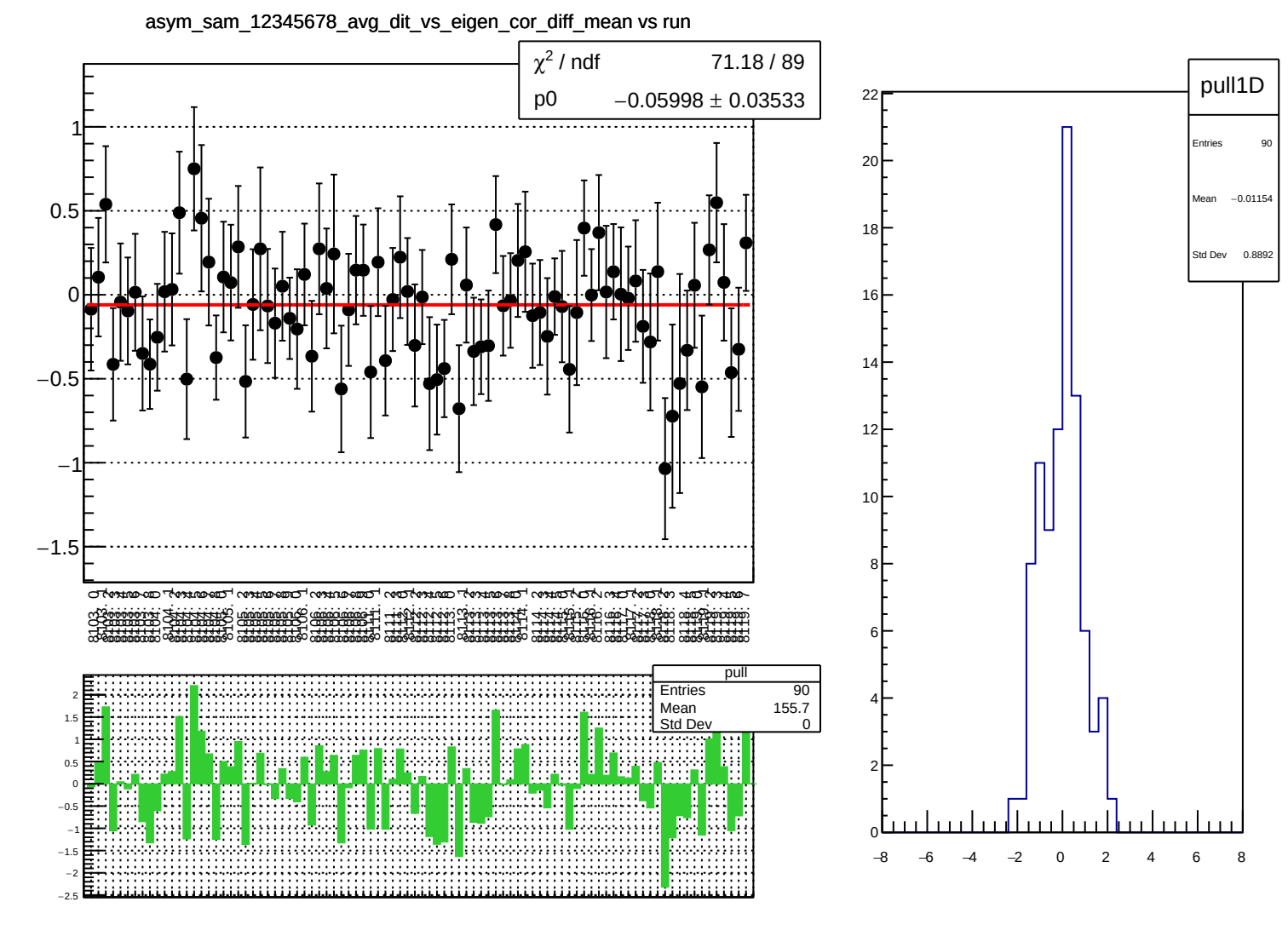

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.46 / 89
p0 1.121e−13 ± 1.315e−13
pull
Entries 90
Mean 29.43
Std Dev 40.56

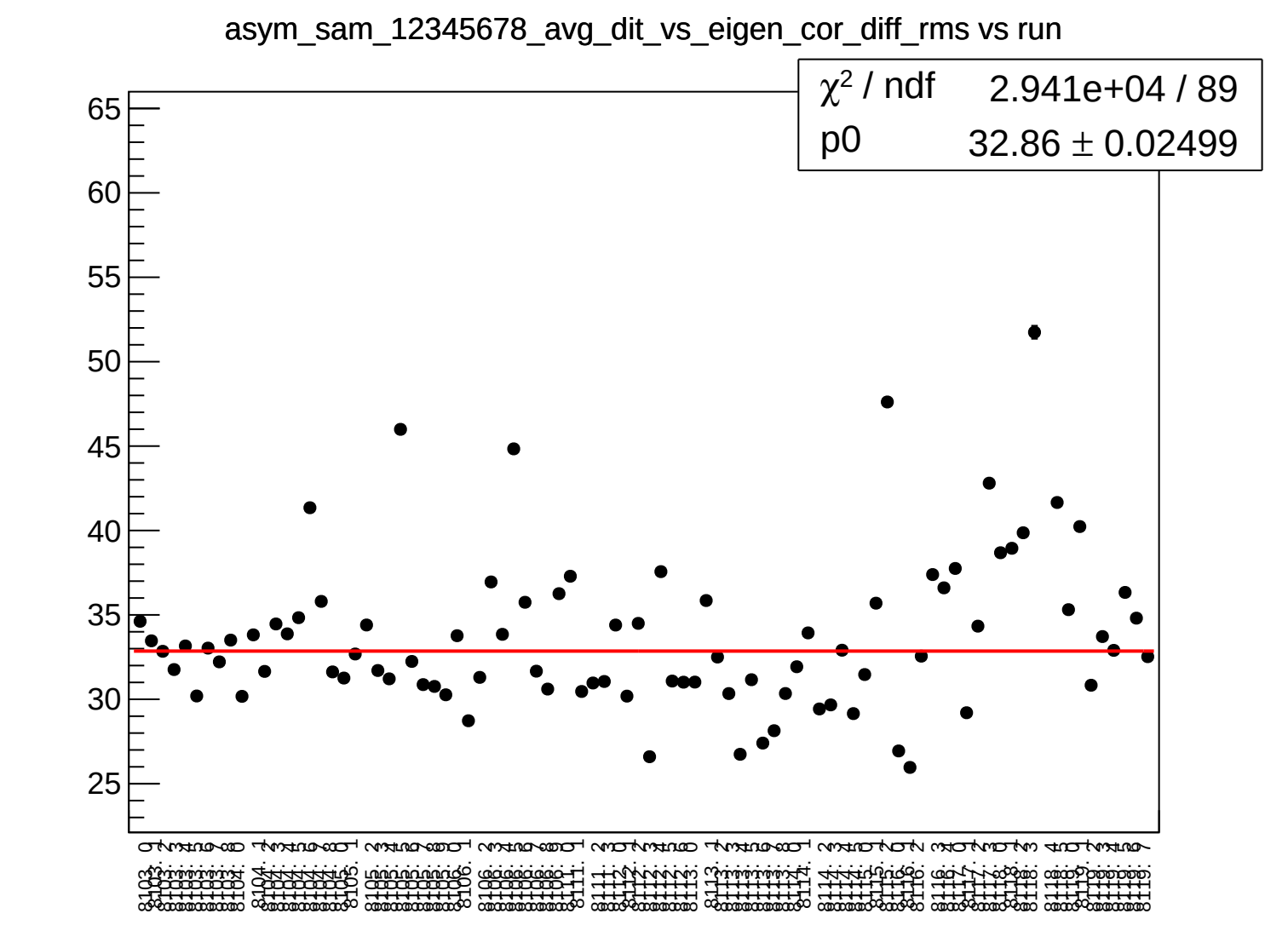

pull1D
Entries 90
Mean 0.02724
Std Dev 1.008

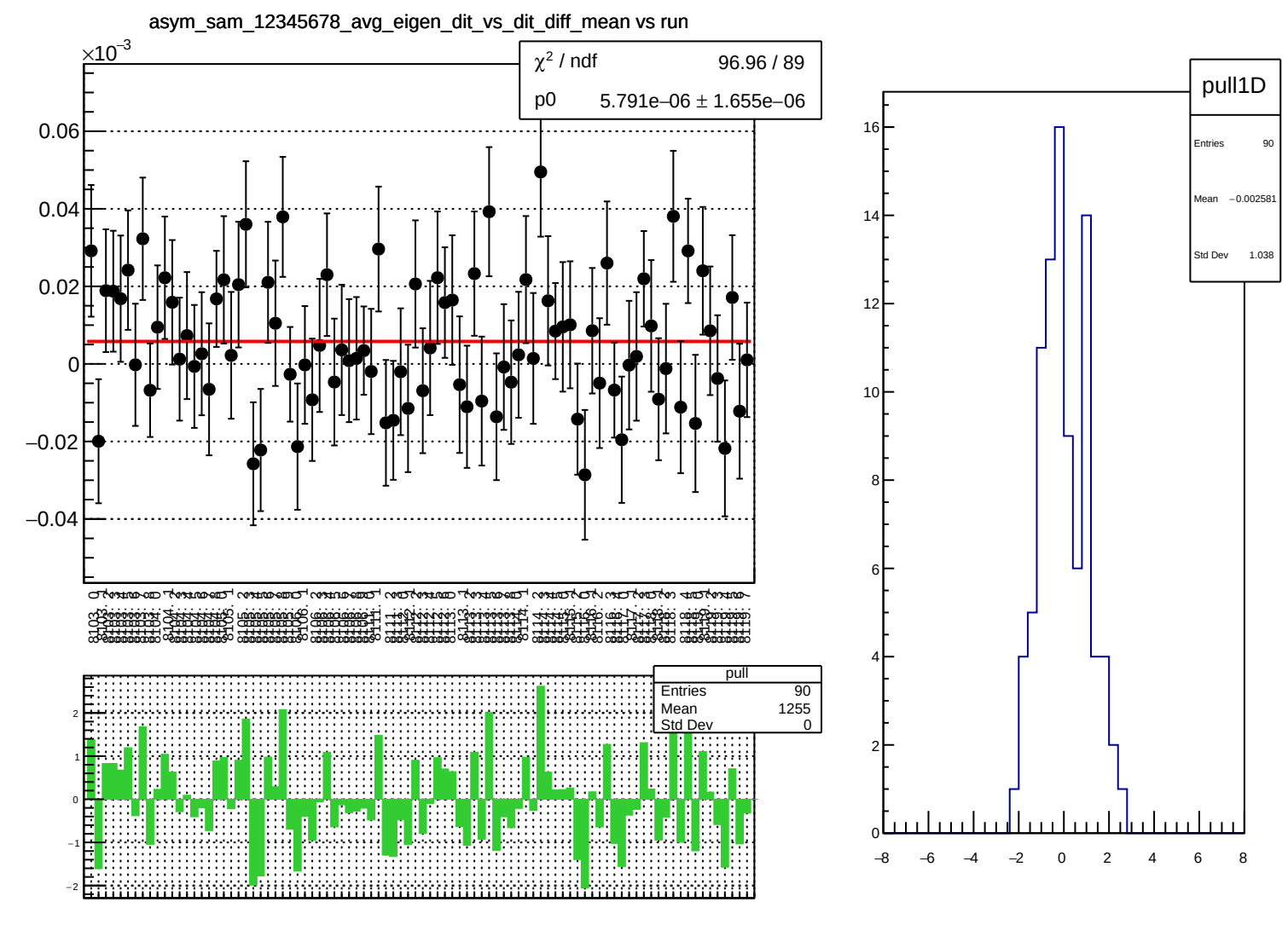

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.439e+05 / 89
p0 8.392e−11 ± 9.297e−14
0.05
0.04
0.03
0.02
0.01
0

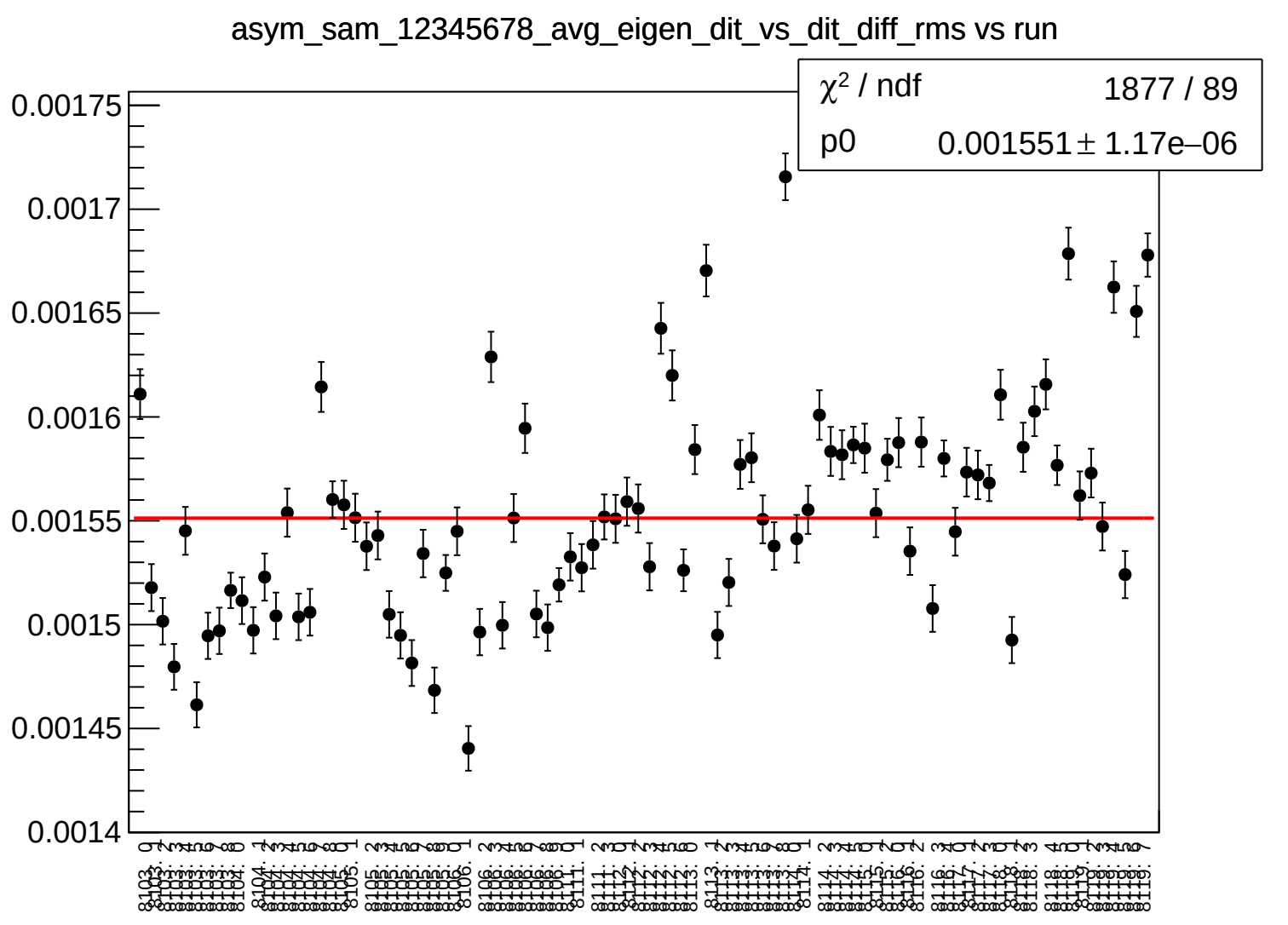

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.18 / 89
p0 −0.05998 ± 0.03533
pull
Entries 90
Mean 155.7
Std Dev 0
pull1D
Entries 90
Mean −0.01154
Std Dev 0.8892

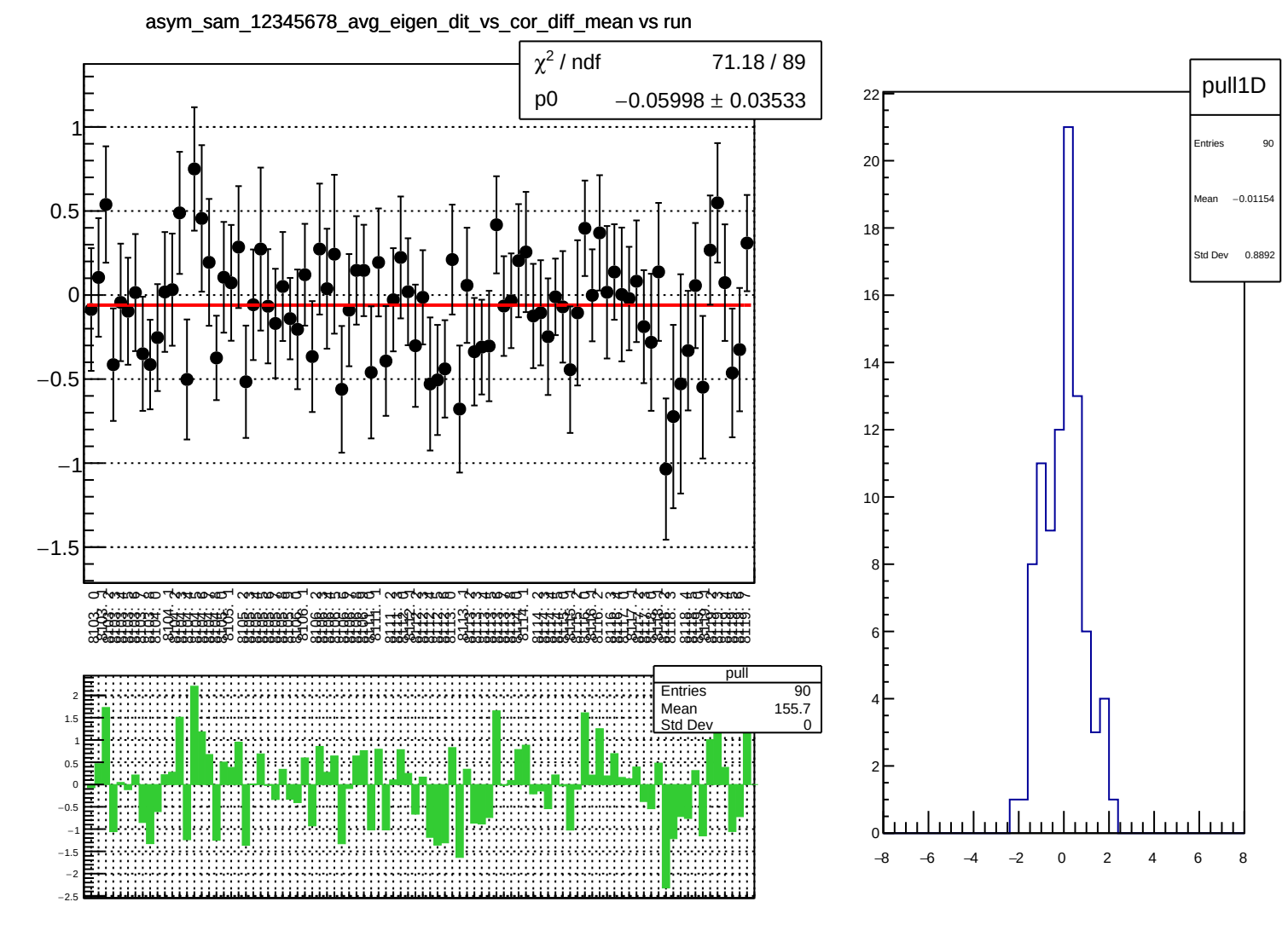

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.941e+04 / 89
p0 32.86 ± 0.02499
65
60
55
50
45
40
35
30
25

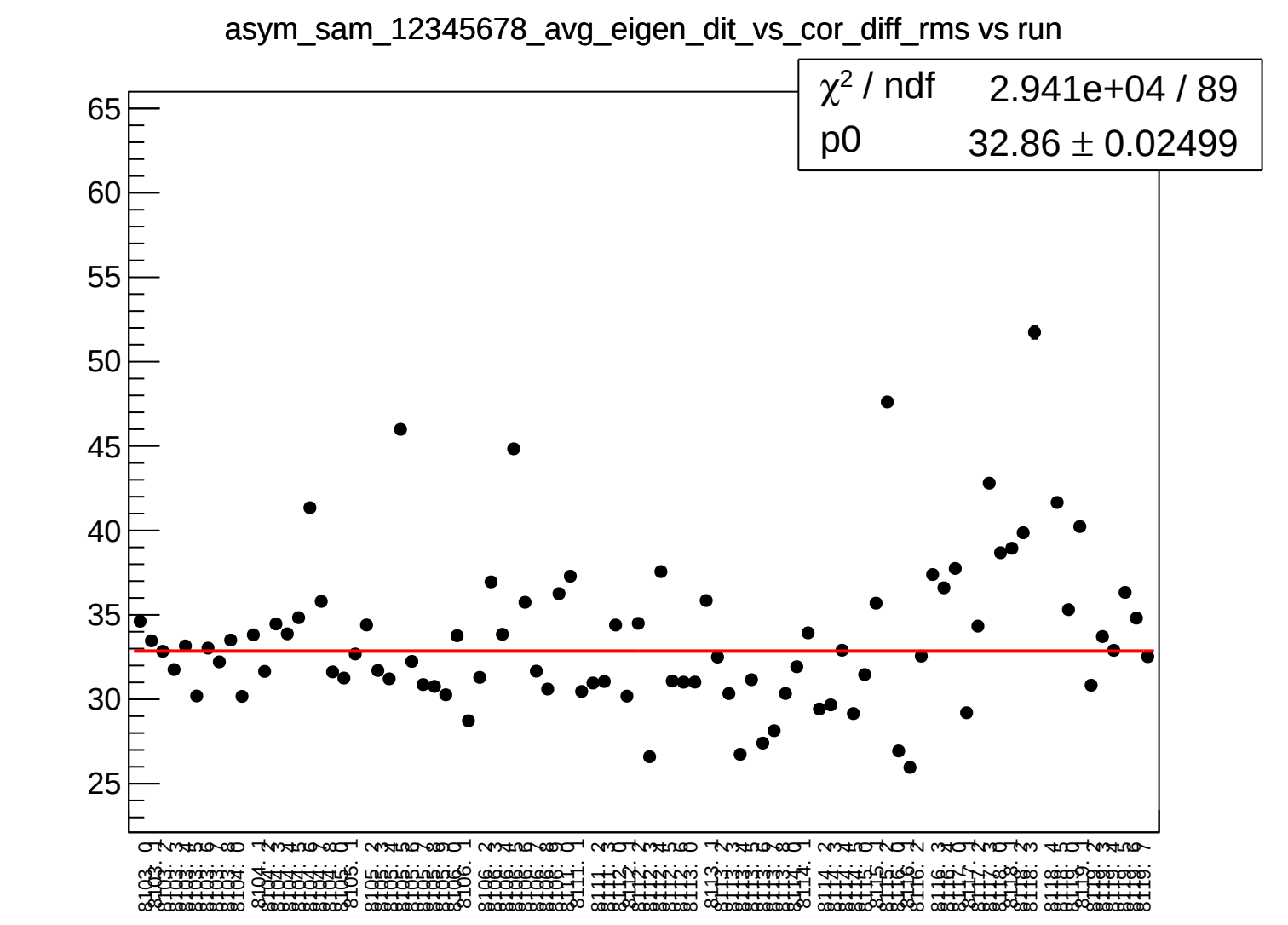

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.18 / 89
p0 −0.05998 ± 0.03533
pull
Entries 90
Mean 155.7
Std Dev 0
pull1D
Entries 90
Mean −0.01154
Std Dev 0.8892

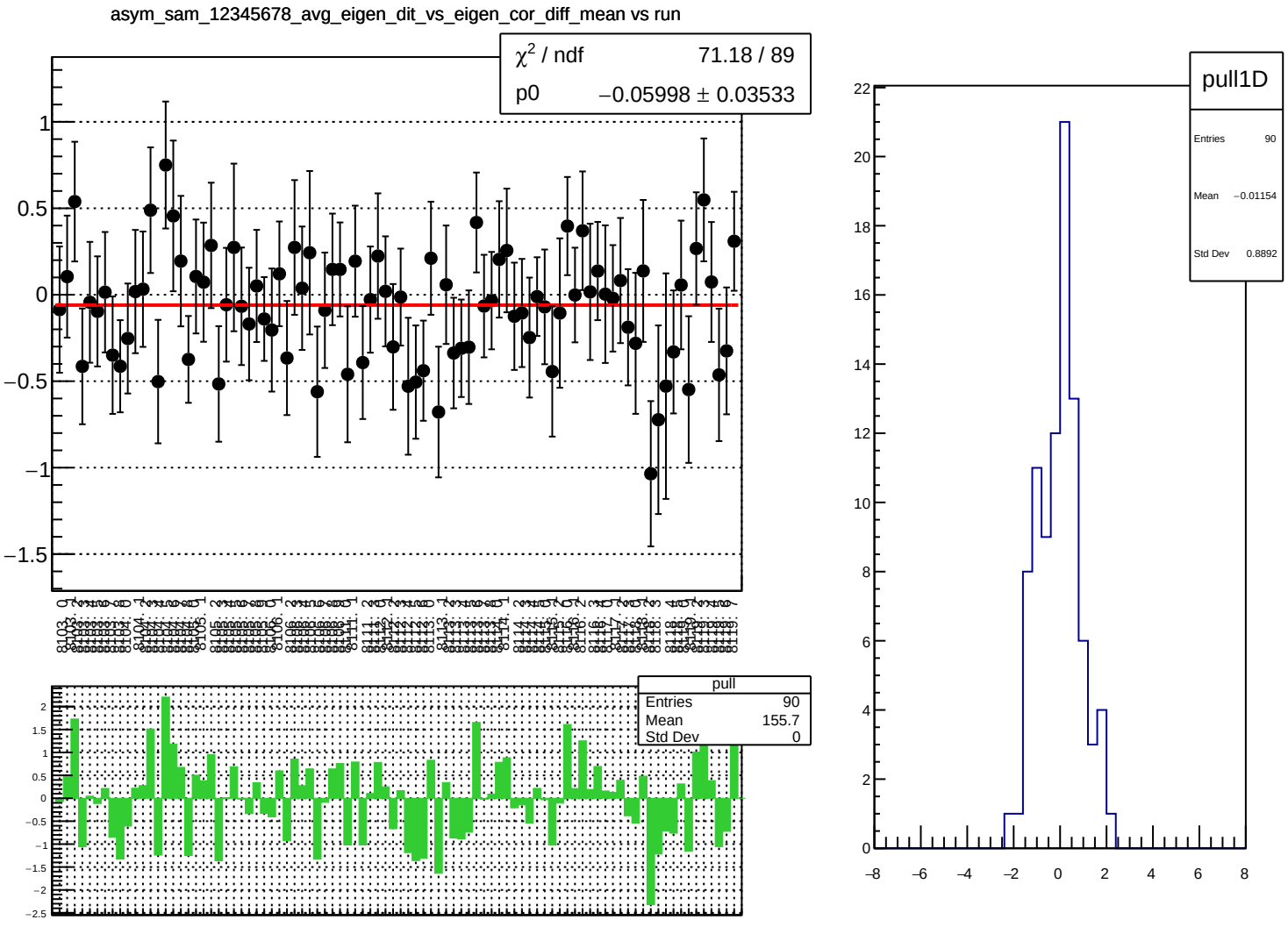

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.941e+04 / 89
p0 32.86 ± 0.02499
65
60
55
50
45
40
35
30
25

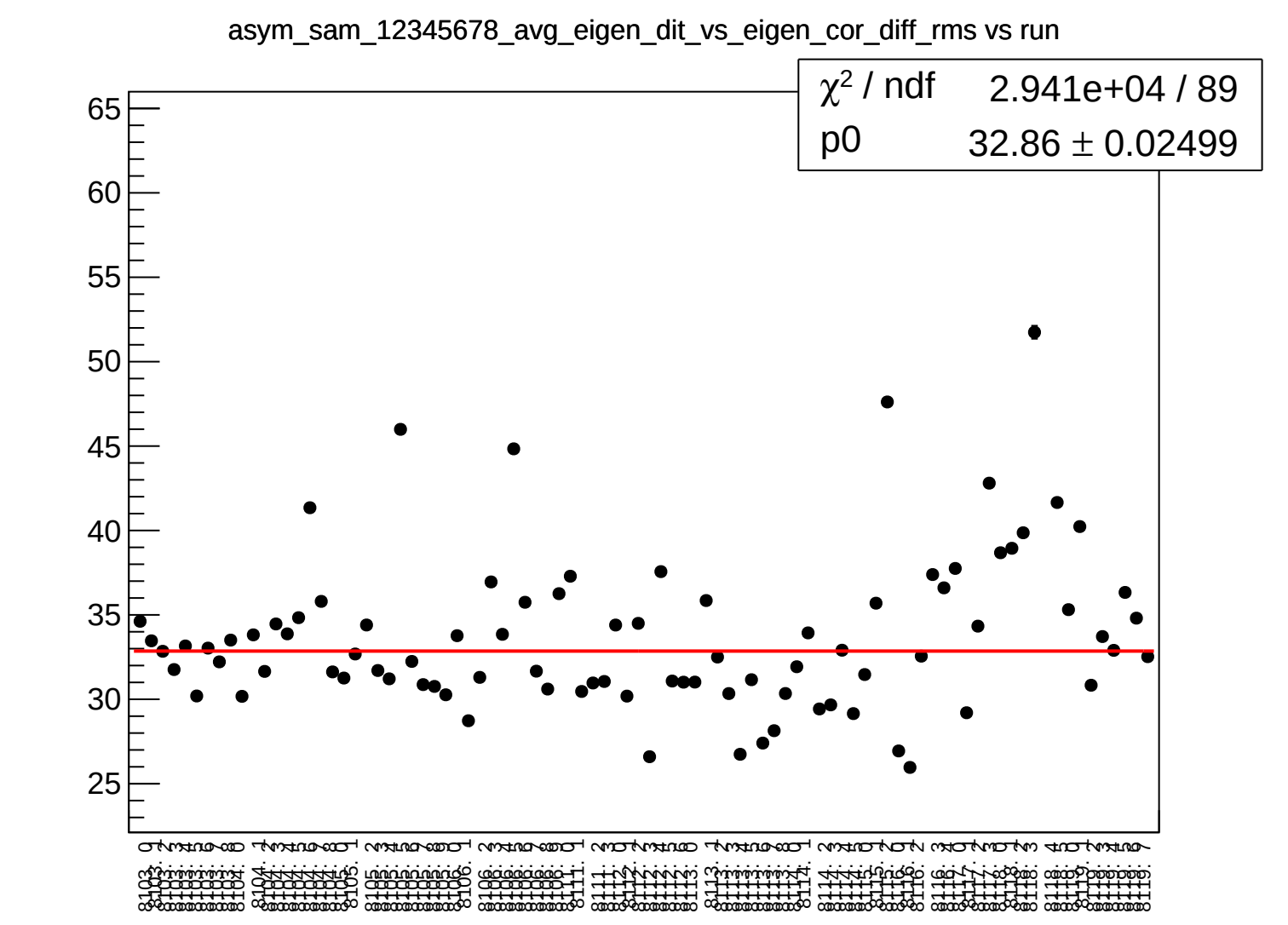

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.96 / 89
p0 5.791e−06 ± 1.655e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 90
Mean 1255
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.002581
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

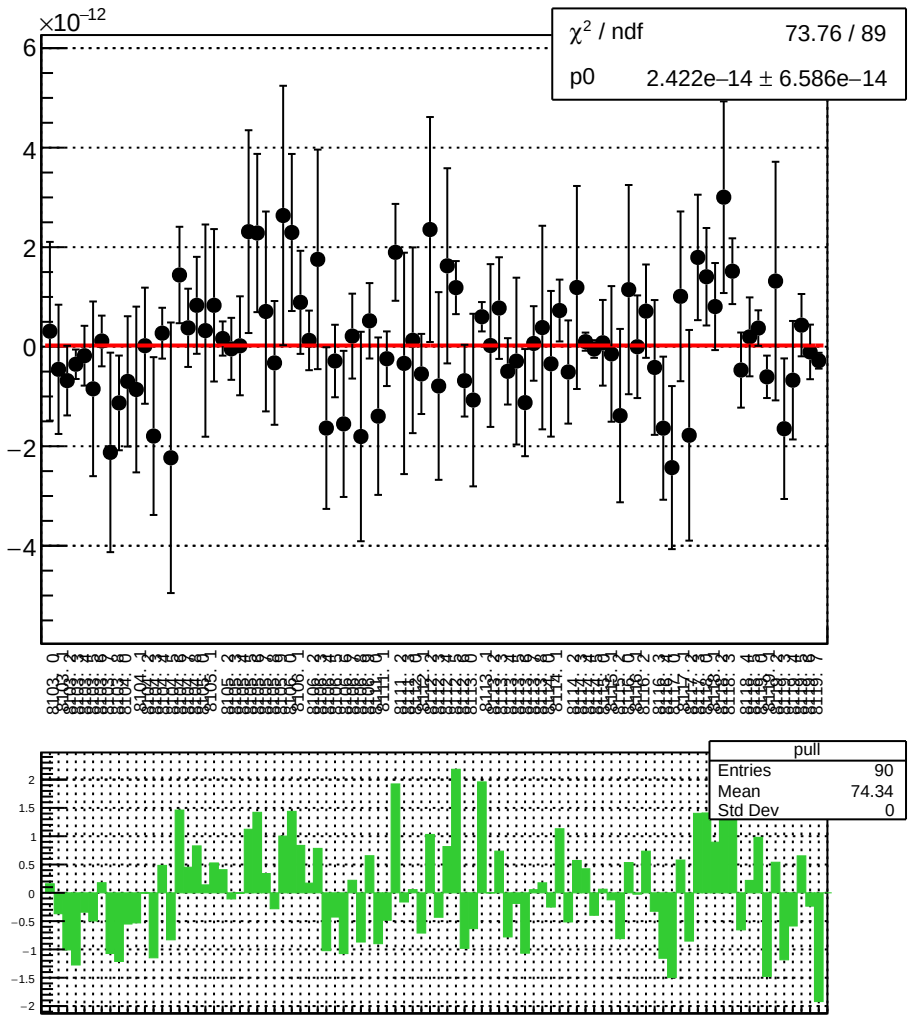

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1877 / 89
p0 0.001551 ± 1.17e–06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014

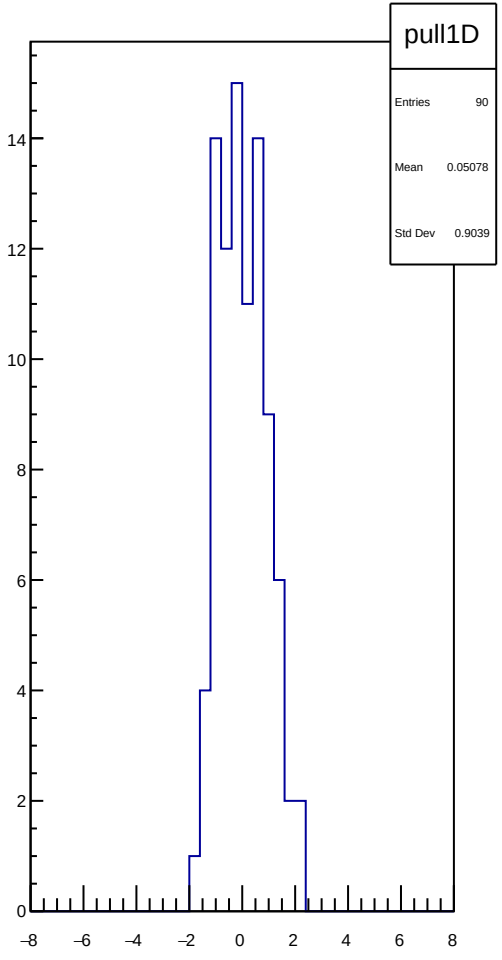

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.18 / 89
p0 −0.05998 ± 0.03533
pull
Entries 90
Mean 155.7
Std Dev 0
pull1D
Entries 90
Mean −0.01154
Std Dev 0.8892

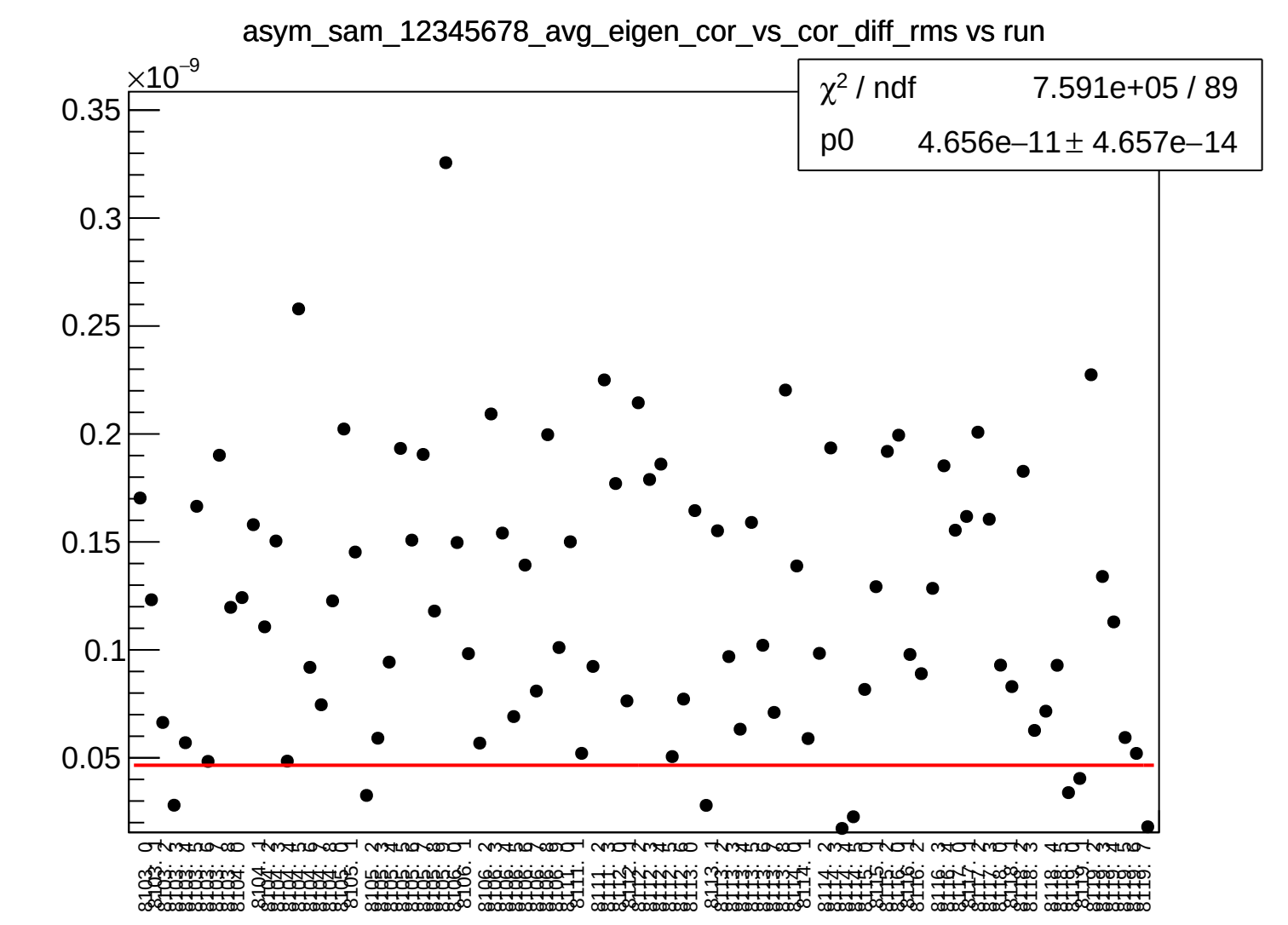

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.941e+04 / 89
p0 32.86 ± 0.02499
65
60
55
50
45
40
35
30
25

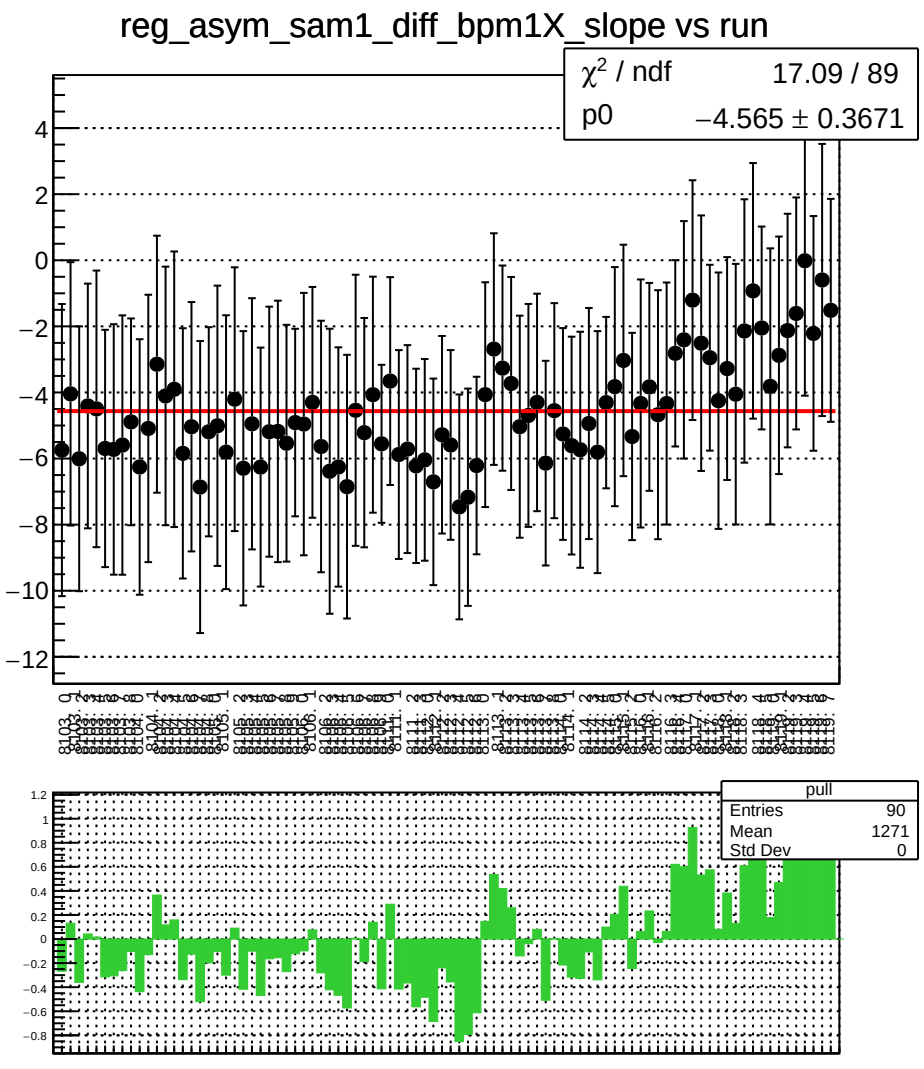

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.18 / 89
p0 −0.05998 ± 0.03533
pull
Entries 90
Mean 155.7
Std Dev 0
pull1D
Entries 90
Mean −0.01154
Std Dev 0.8892

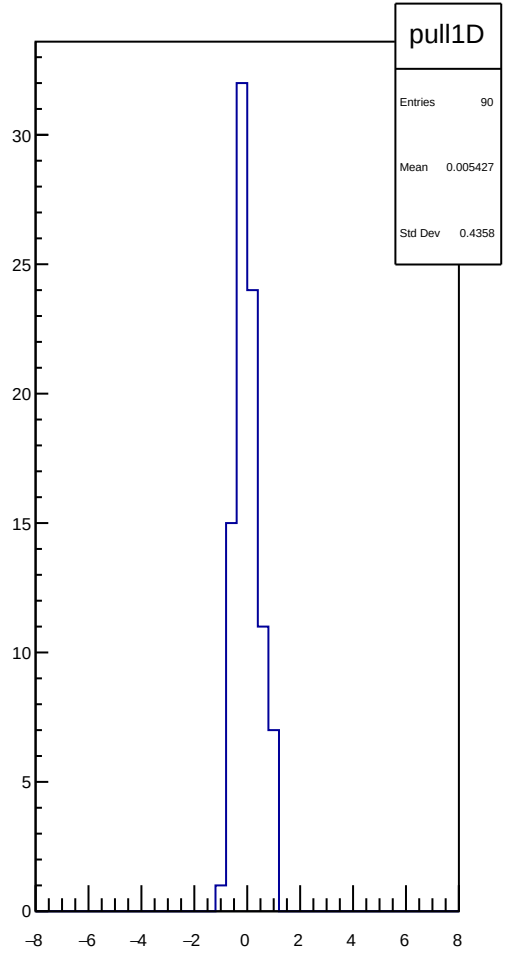

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.941e+04 / 89
p0 32.86 ± 0.02499
65
60
55
50
45
40
35
30
25

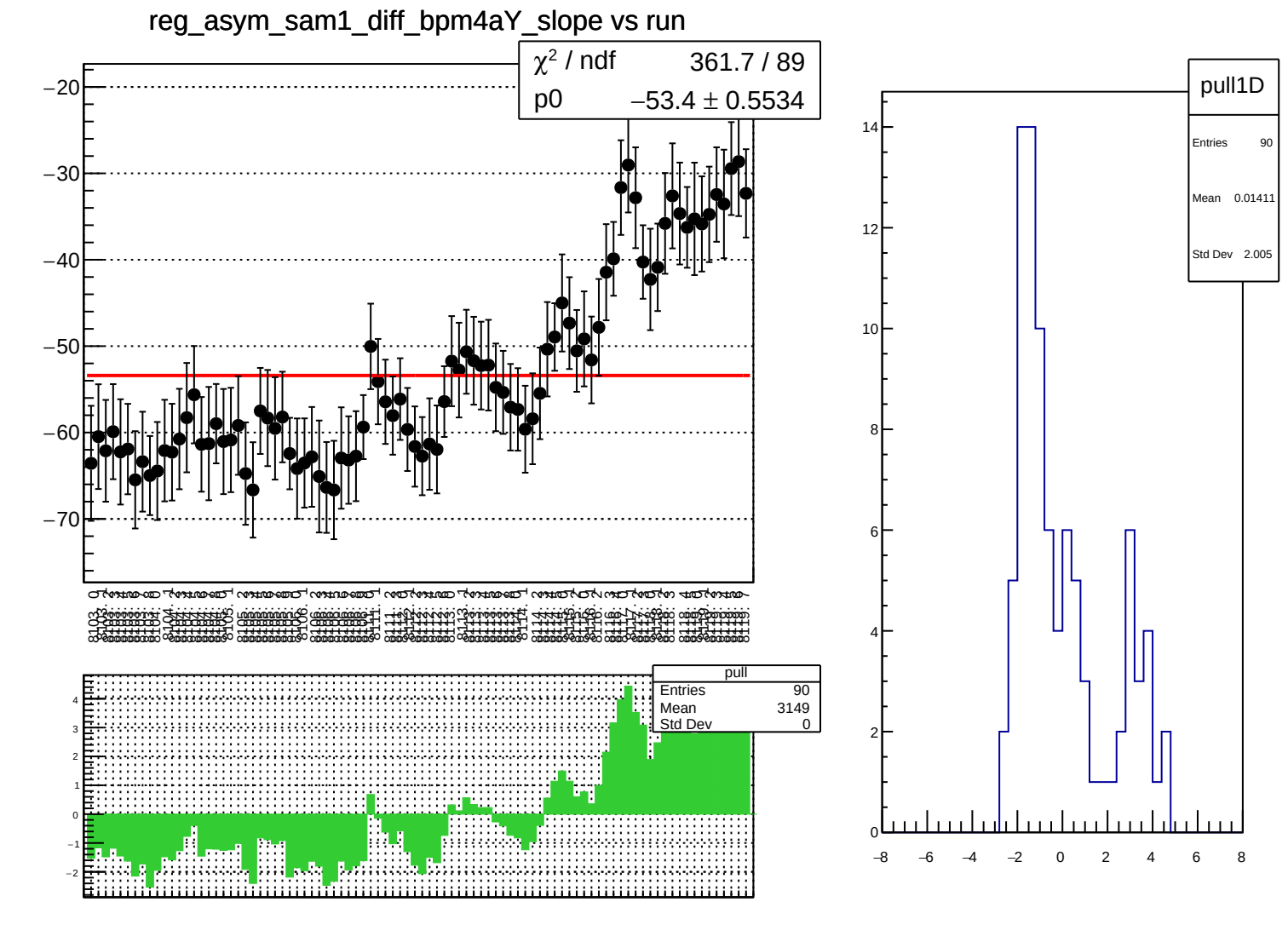

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.76 / 89
p0 2.422e−14 ± 6.586e−14
pull
Entries 90
Mean 74.34
Std Dev 0

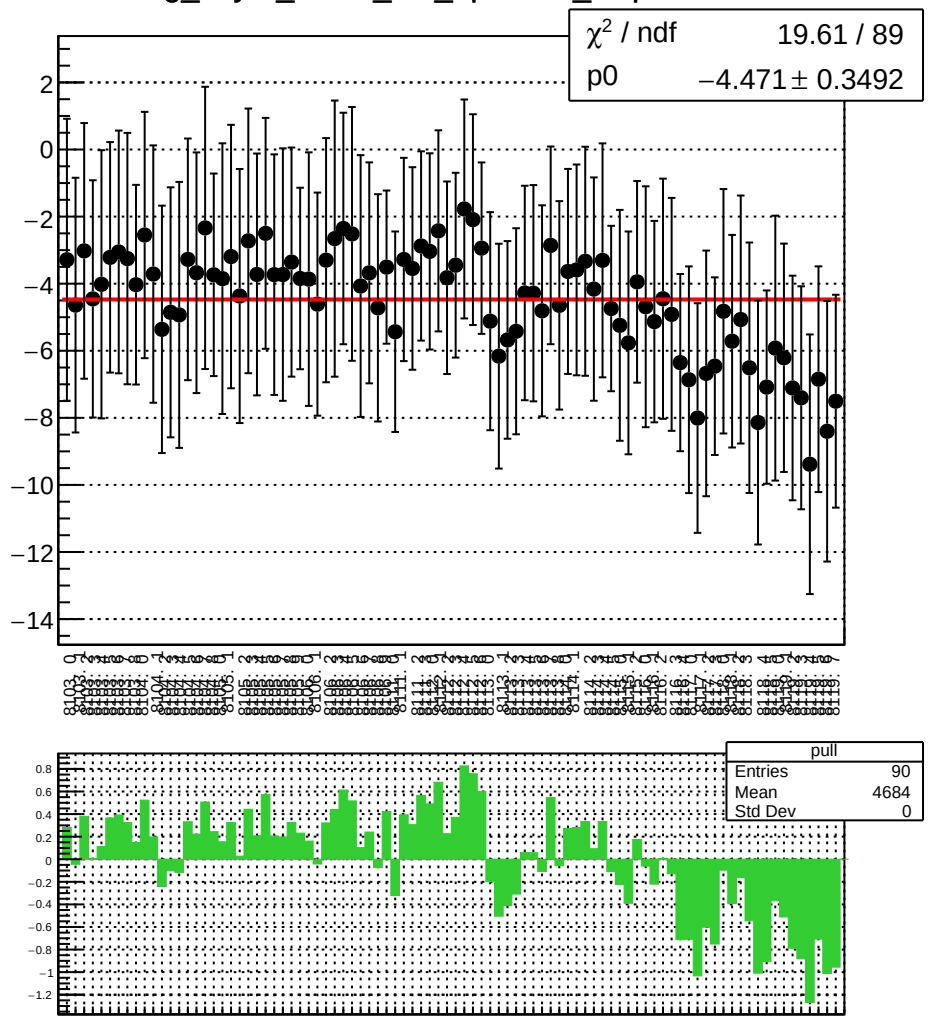

pull1D
Entries 90
Mean 0.05078
Std Dev 0.9039

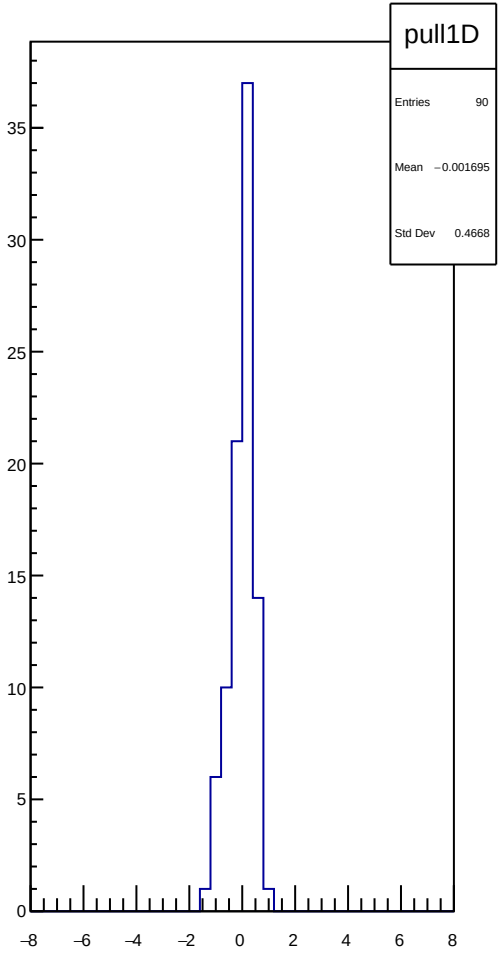

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.591e+05 / 89
p0 4.656e−11 ± 4.657e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

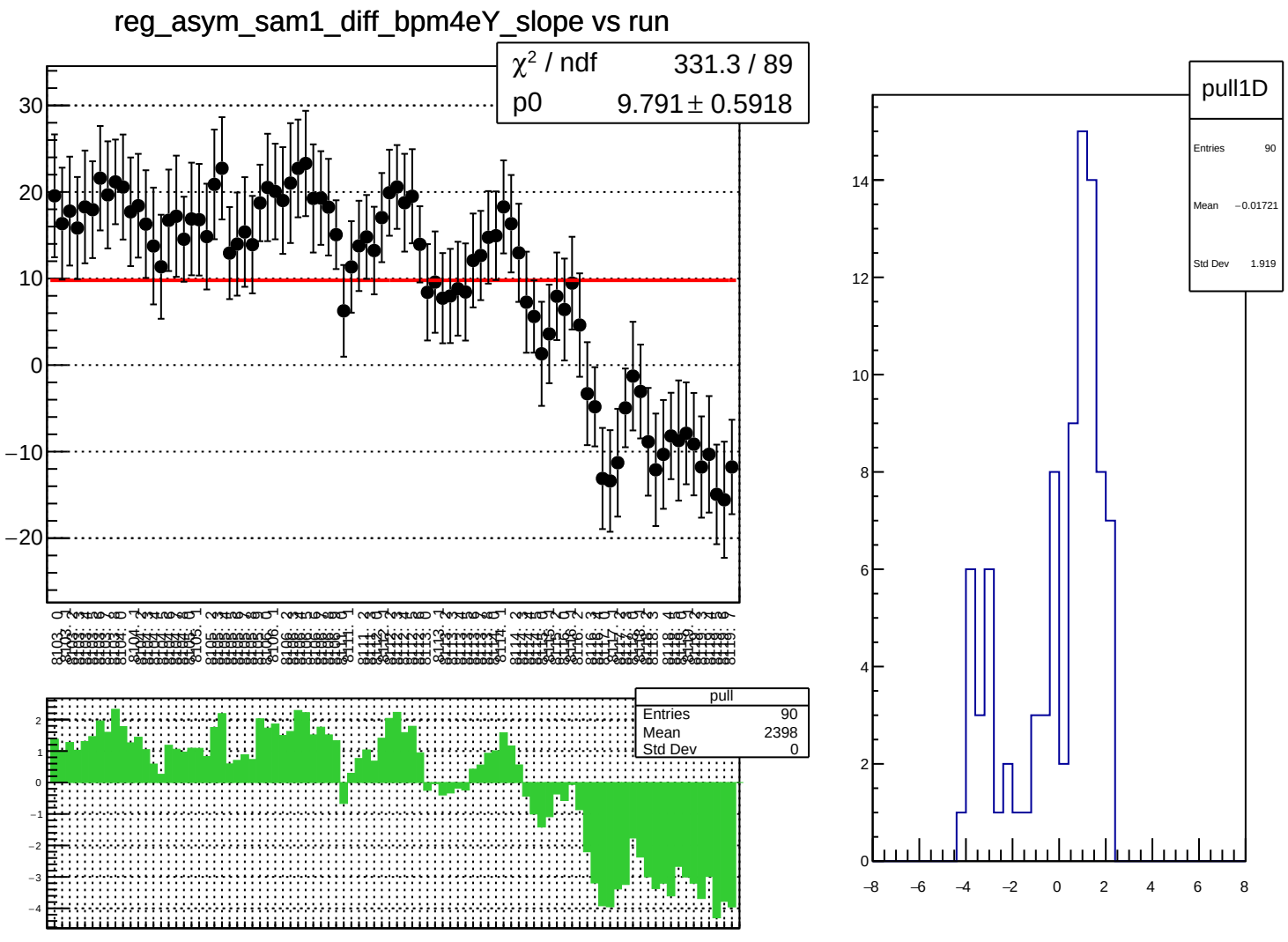

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 17.09 / 89
p0 −4.565 ± 0.3671
pull
Entries 90
Mean 1271
Std Dev 0

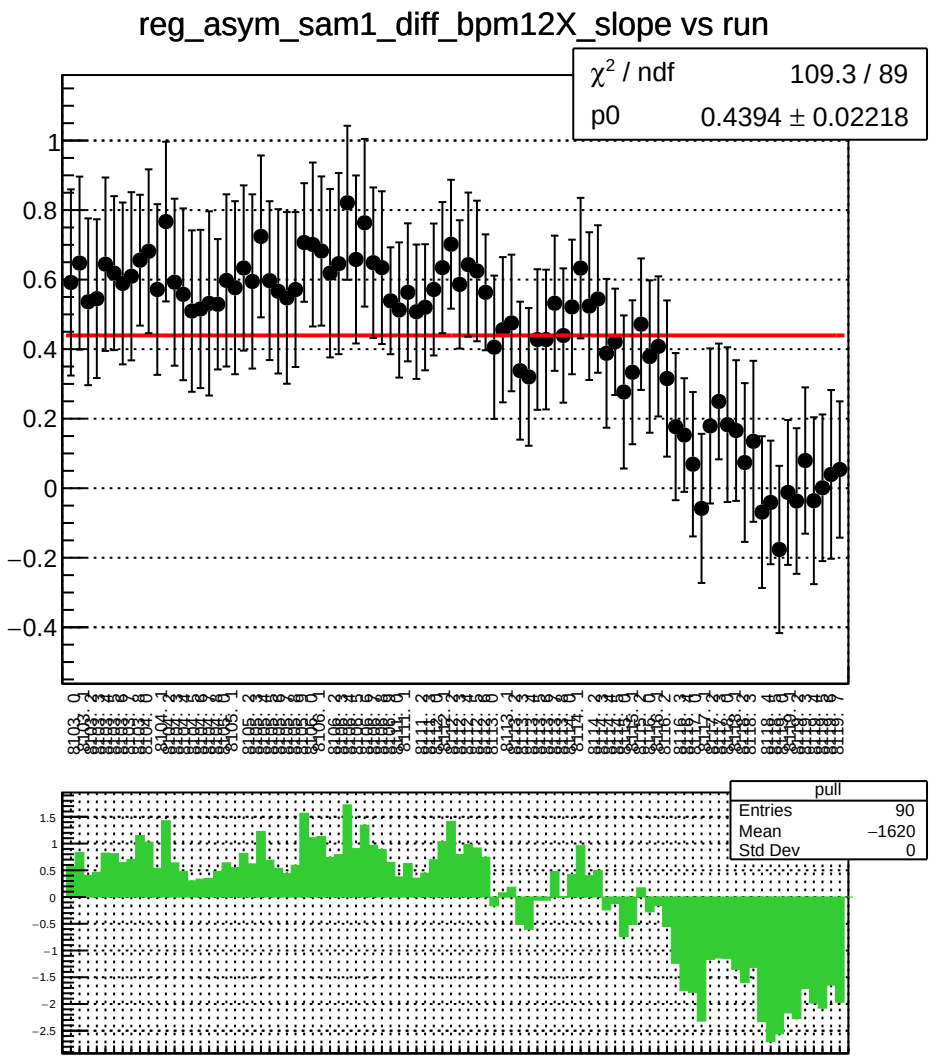

pull1D
Entries 90
Mean 0.005427
Std Dev 0.4358

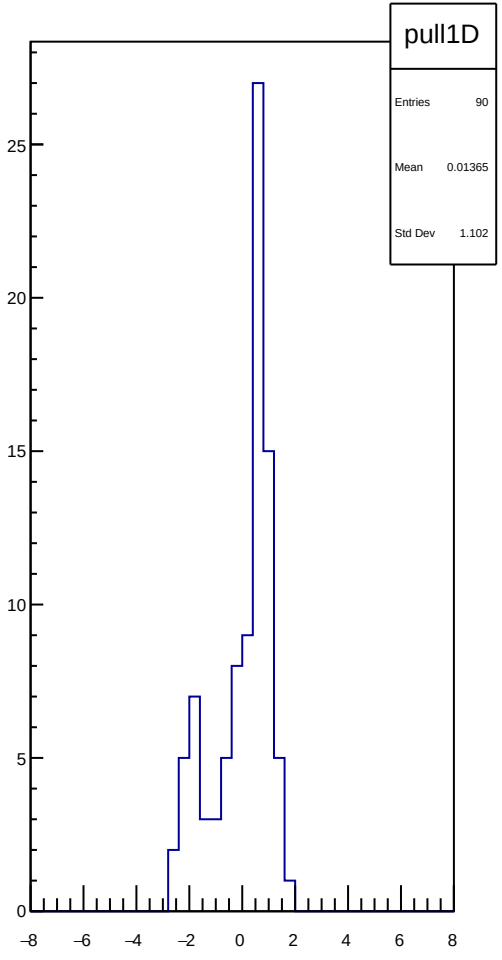

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 361.7 / 89
p0 −53.4 ± 0.5534
pull
Entries 90
Mean 3149
Std Dev 0
pull1D
Entries 90
Mean 0.01411
Std Dev 2.005

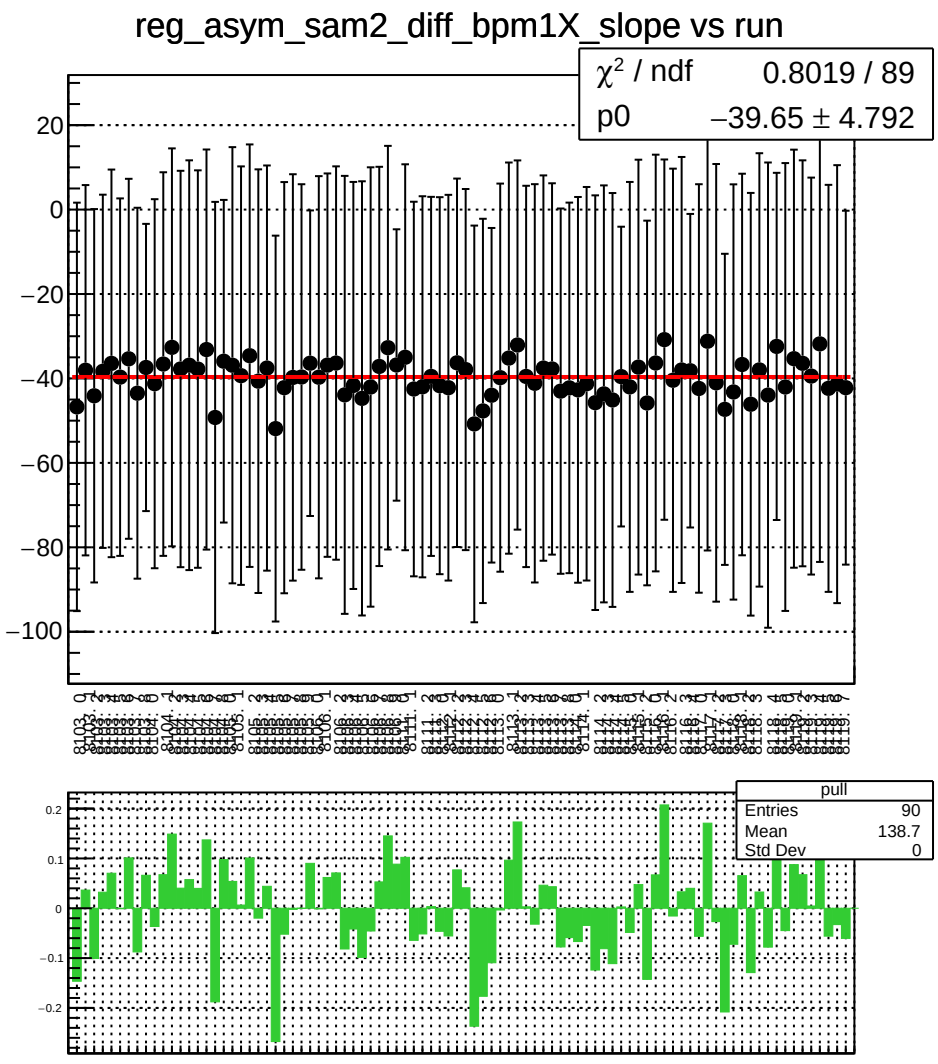

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 19.61 / 89
p0 −4.471 ± 0.3492
pull
Entries 90
Mean 4684
Std Dev 0

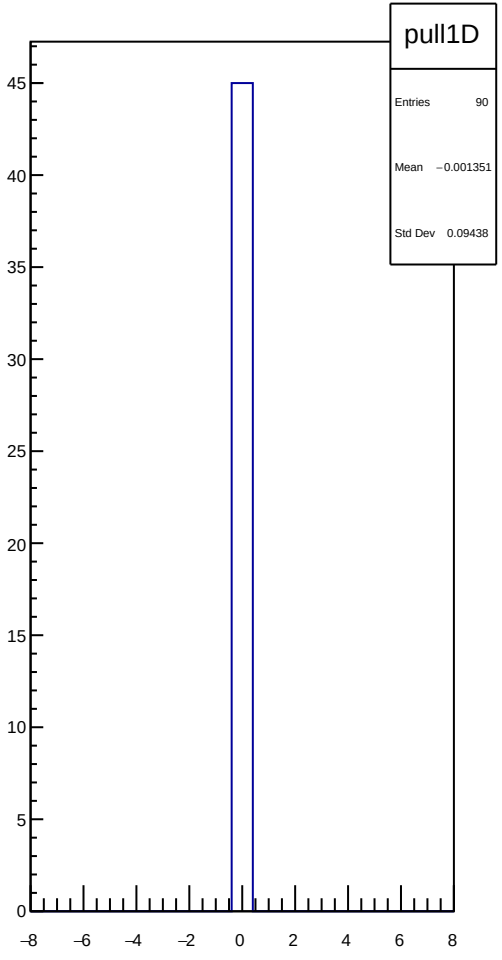

pull1D
Entries 90
Mean −0.001695
Std Dev 0.4668

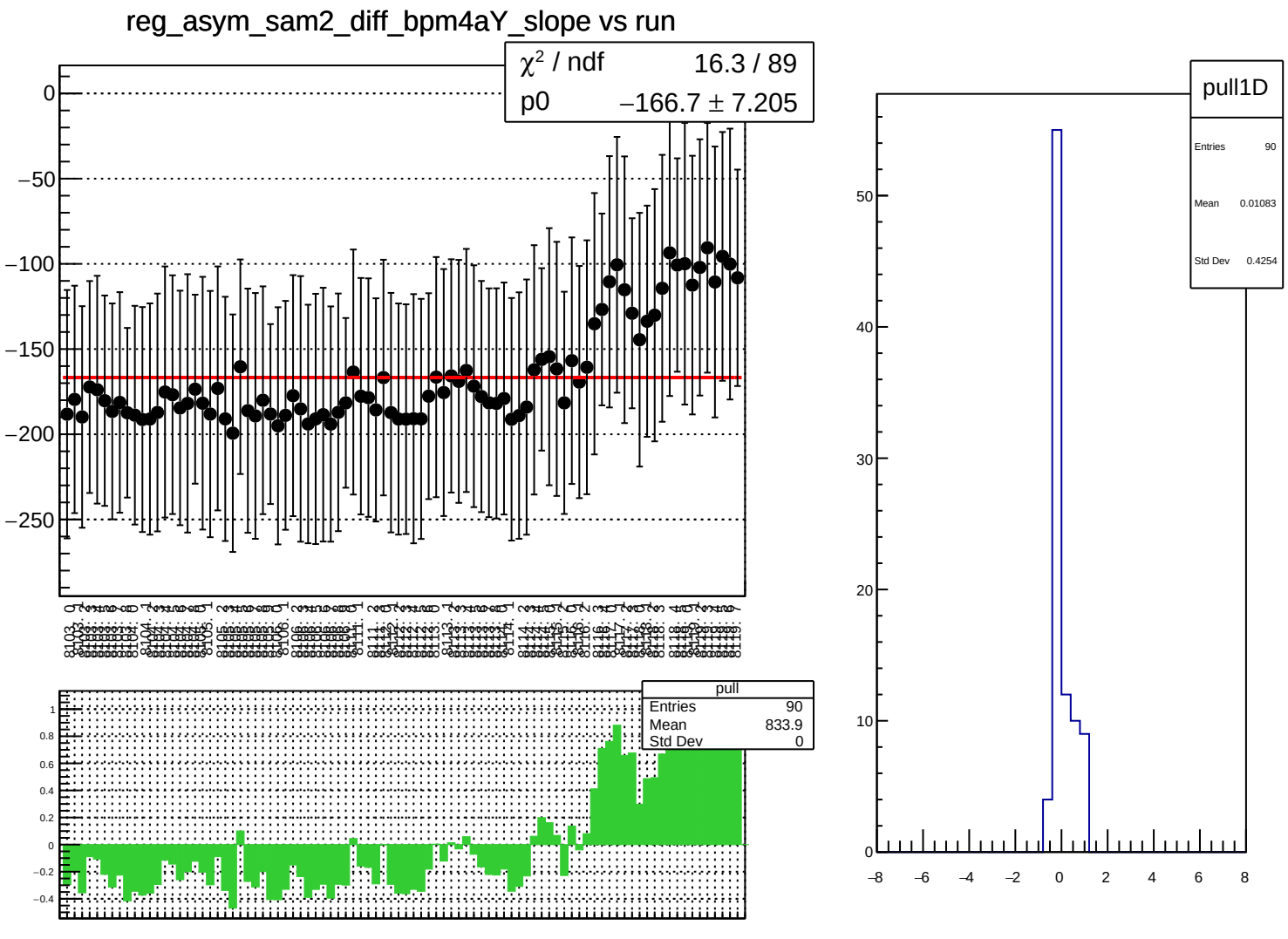

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 331.3 / 89
p0 9.791 ± 0.5918
pull
Entries 90
Mean 2398
Std Dev 0
pull1D
Entries 90
Mean −0.01721
Std Dev 1.919

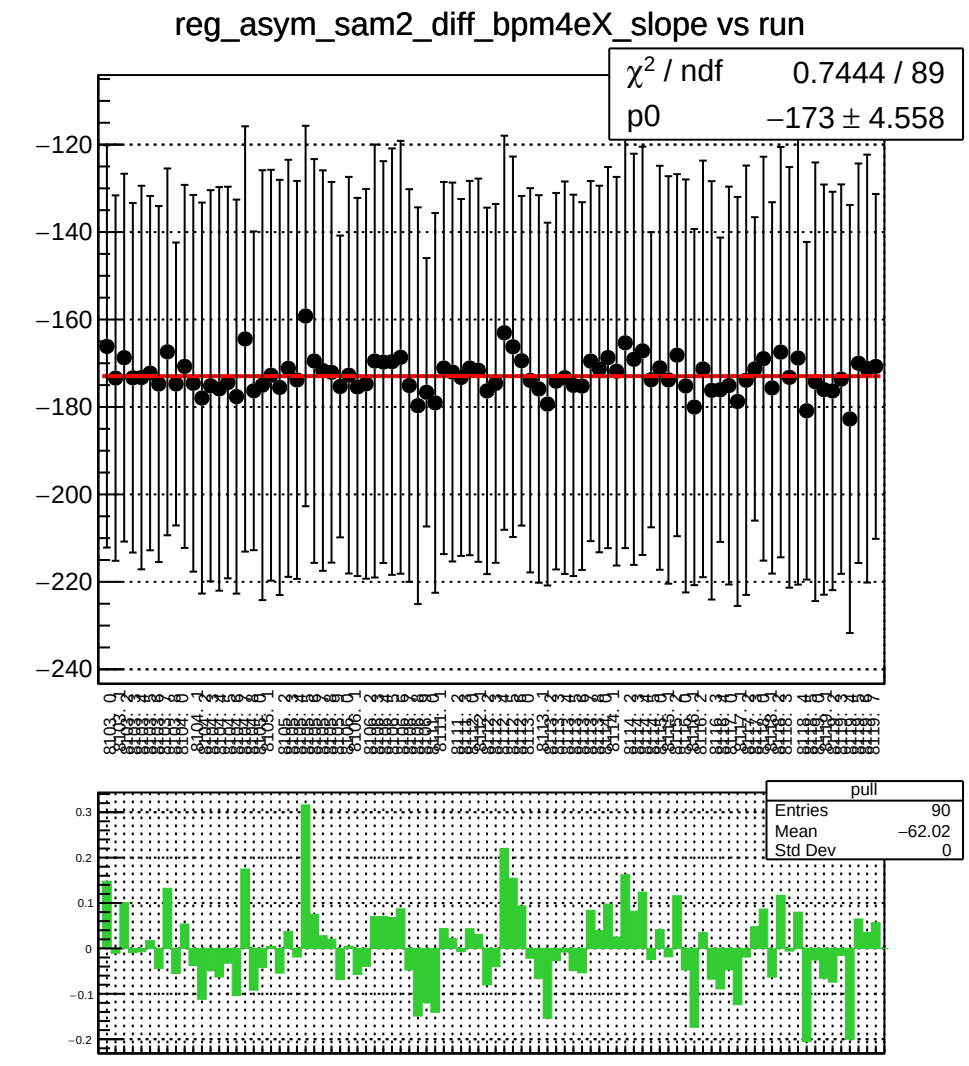

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 109.3 / 89
p0 0.4394 ± 0.02218
pull
Entries 90
Mean −1620
Std Dev 0

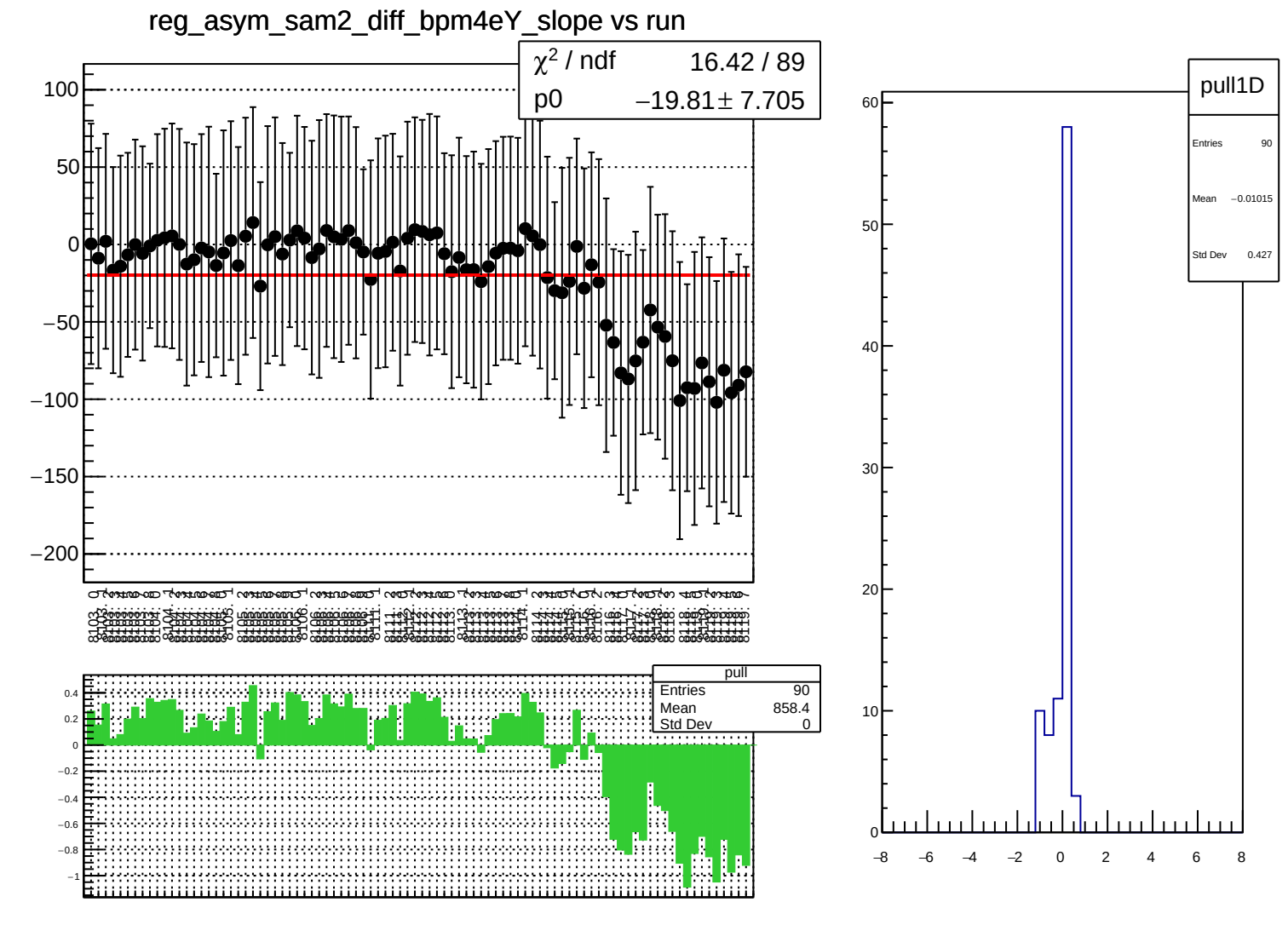

pull1D
Entries 90
Mean 0.01365
Std Dev 1.102

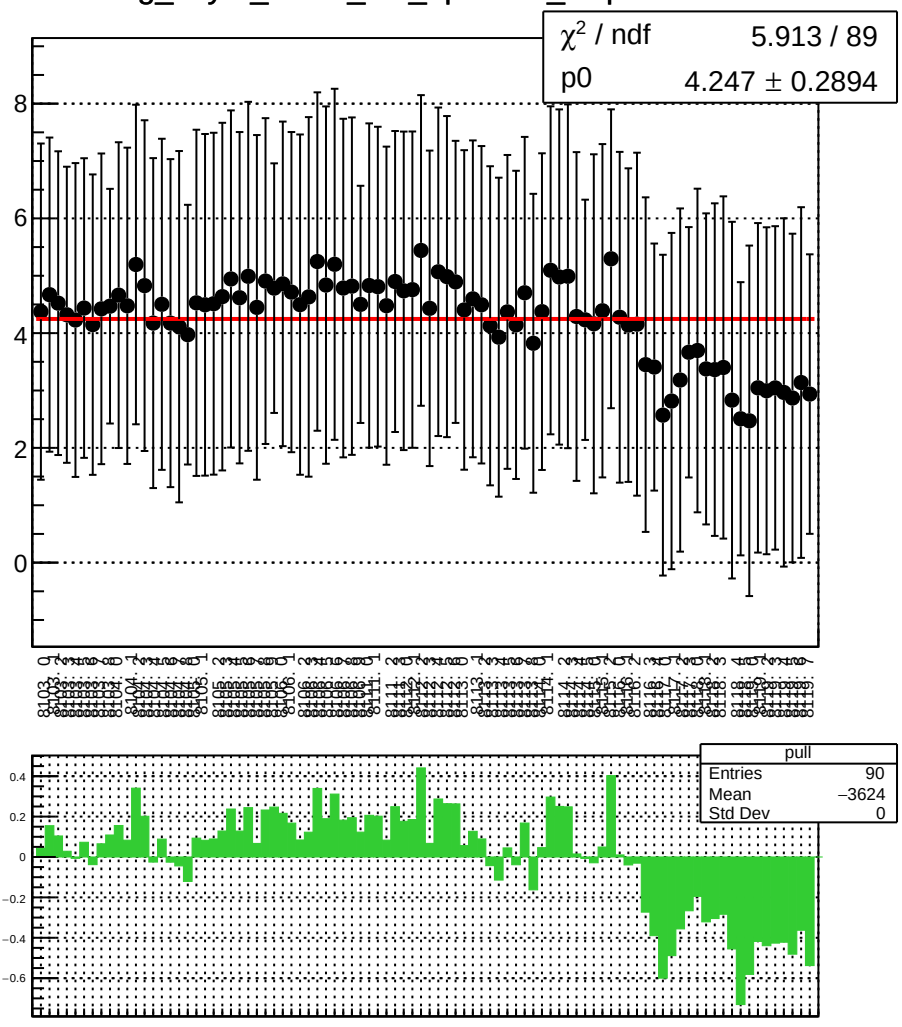

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.8019 / 89
p0 −39.65 ± 4.792
pull
Entries 90
Mean 138.7
Std Dev 0

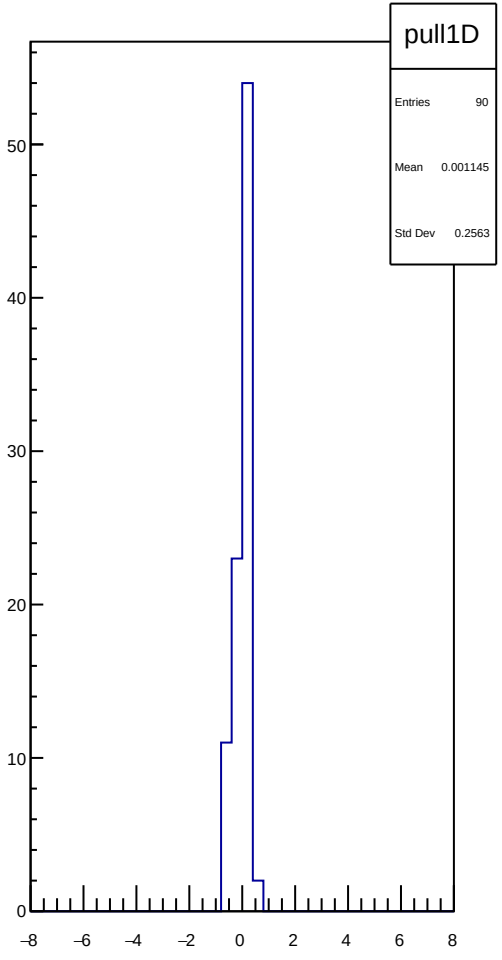

pull1D
Entries 90
Mean −0.001351
Std Dev 0.09438

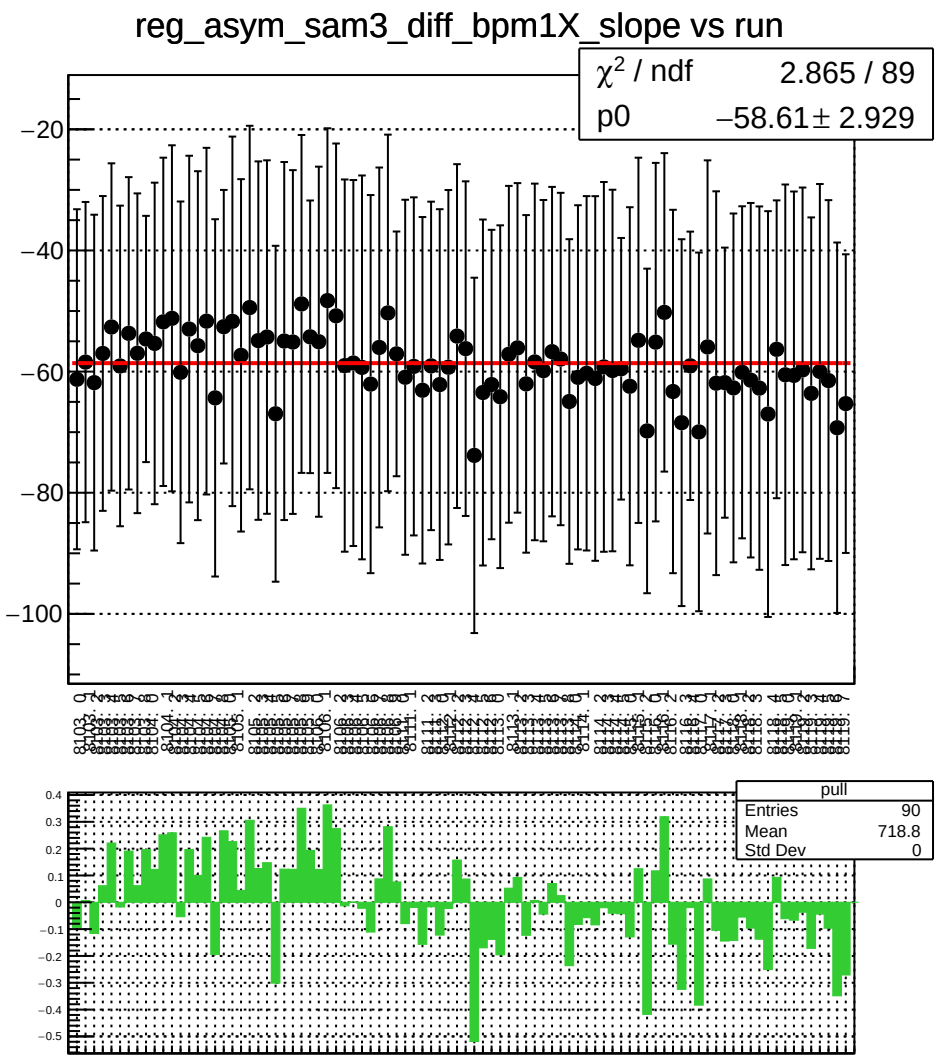

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 16.3 / 89
p0 −166.7 ± 7.205
pull
Entries 90
Mean 833.9
Std Dev 0
pull1D
Entries 90
Mean 0.01083
Std Dev 0.4254

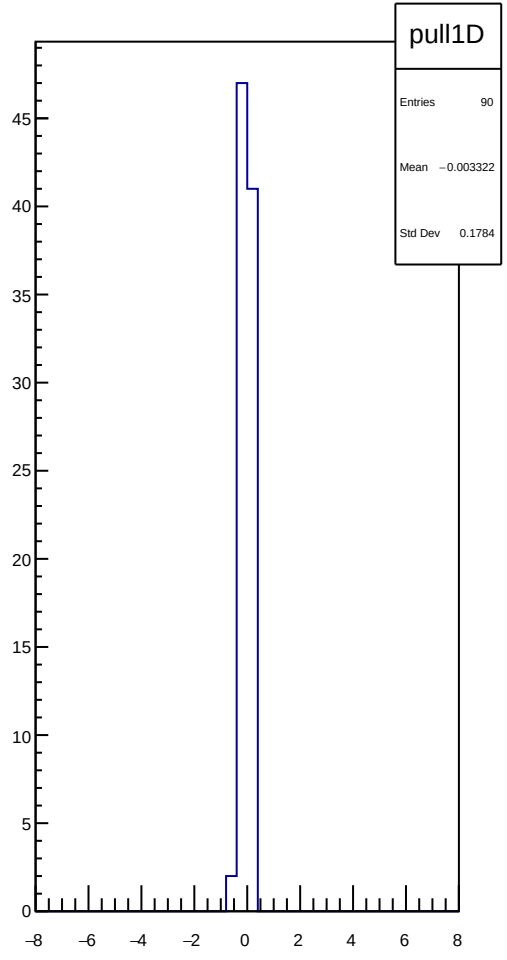

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.7444 / 89
p0 −173 ± 4.558
pull
Entries 90
Mean −62.02
Std Dev 0
pull1D
Entries 90
Mean 0.002047
Std Dev 0.09092

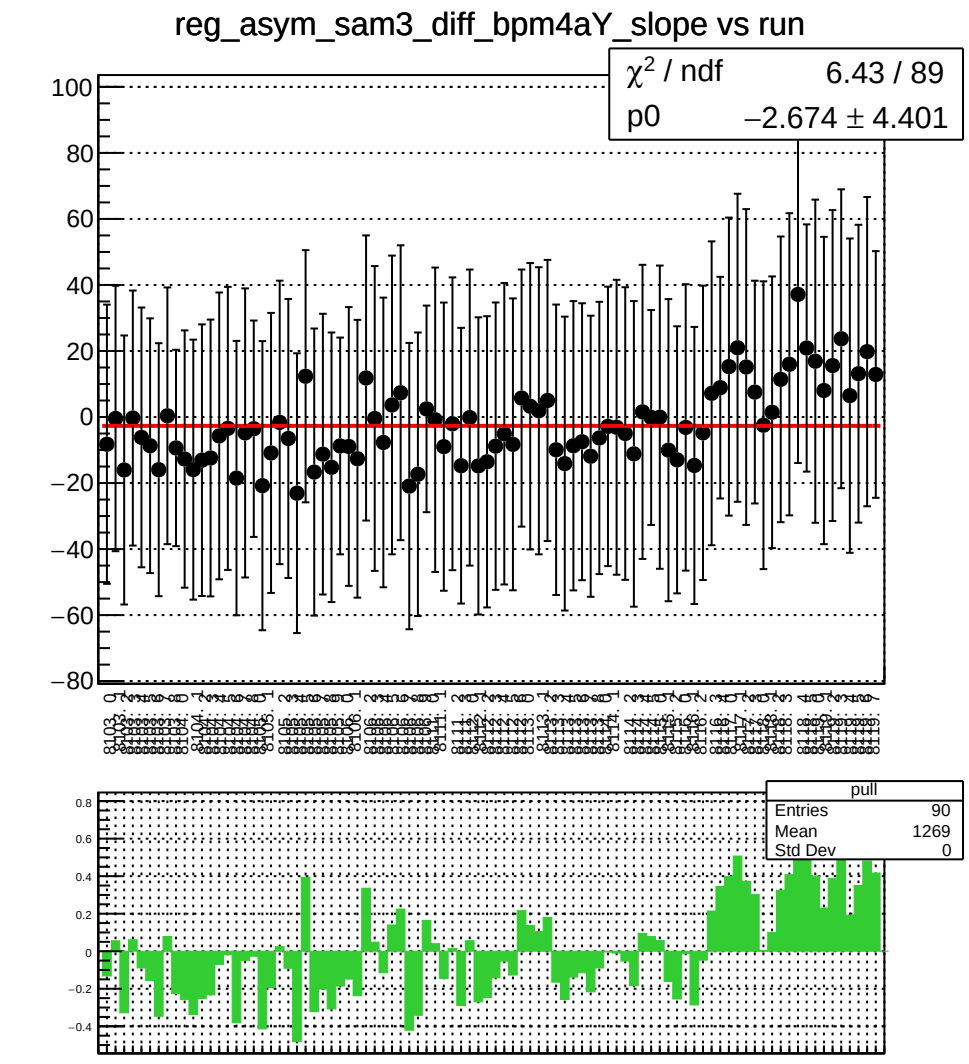

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 16.42 / 89
p0 −19.81 ± 7.705
pull
Entries 90
Mean 858.4
Std Dev 0
pull1D
Entries 90
Mean −0.01015
Std Dev 0.427

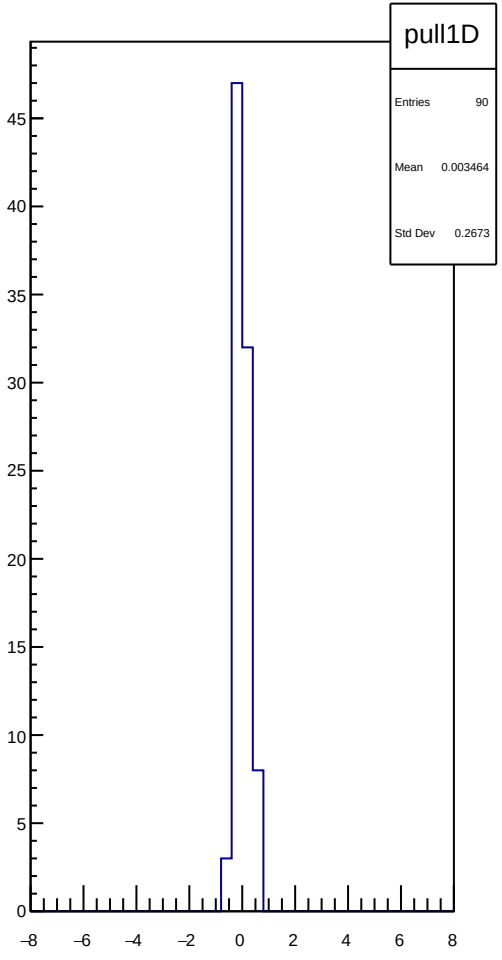

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 5.913 / 89
p0 4.247 ± 0.2894
pull
Entries 90
Mean −3624
Std Dev 0

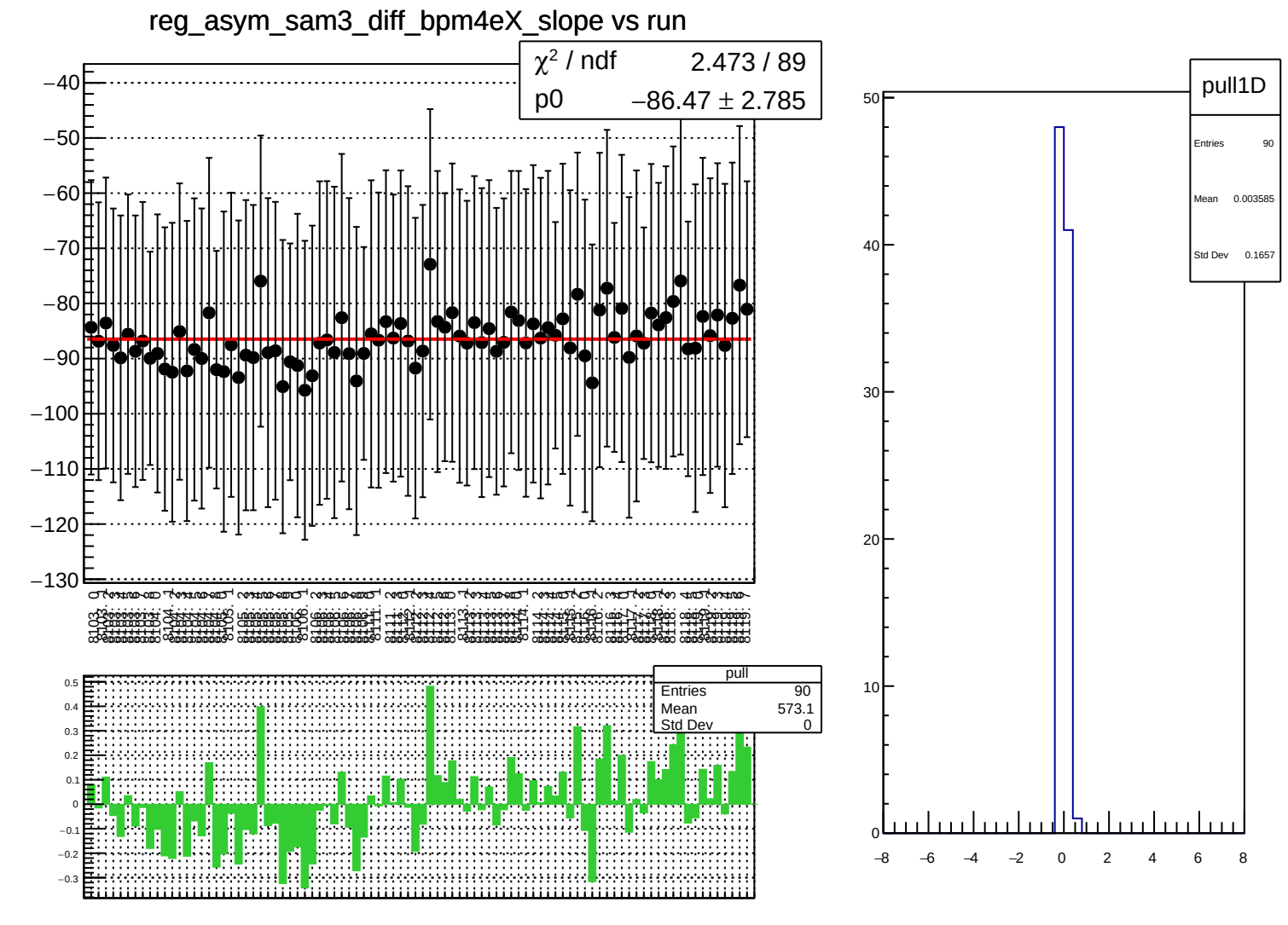

pull1D
Entries 90
Mean 0.001145
Std Dev 0.2563

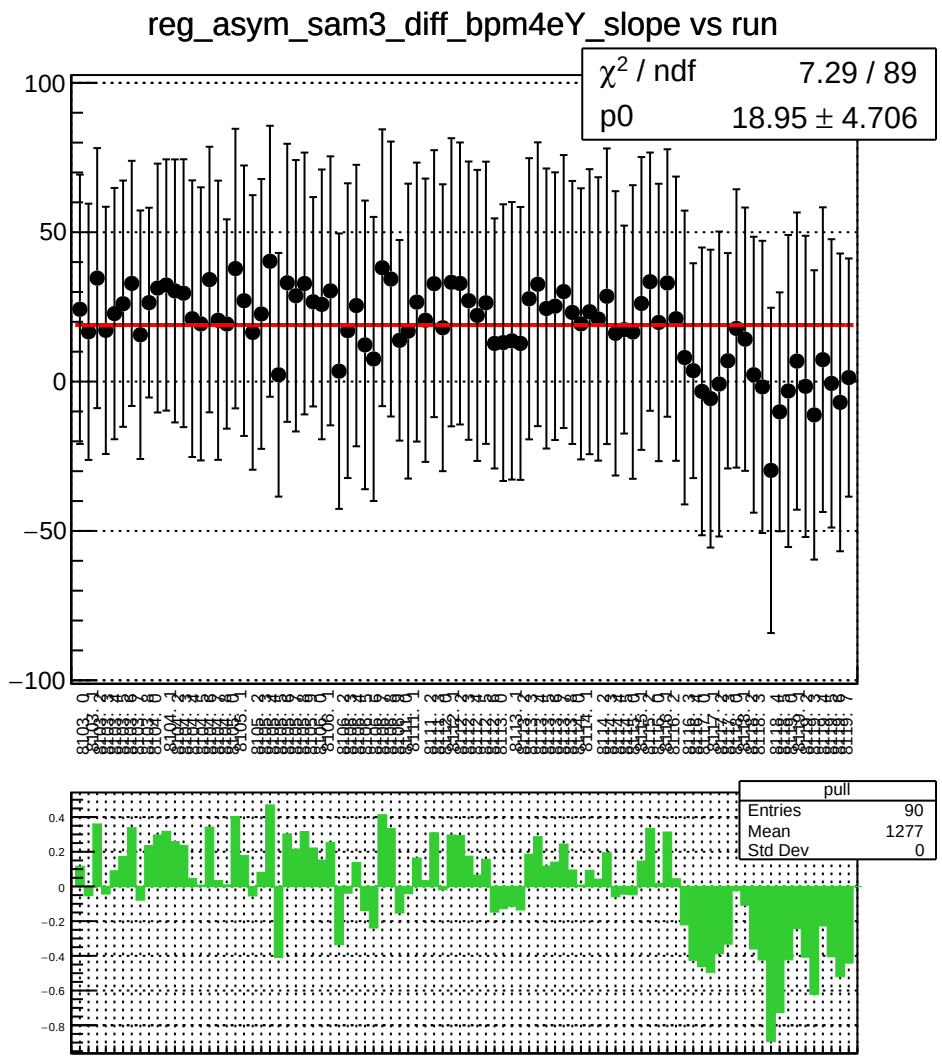

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 2.865 / 89
p0 −58.61 ± 2.929
−20
−40
−60
−80
−100
pull
Entries 90
Mean 718.8
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

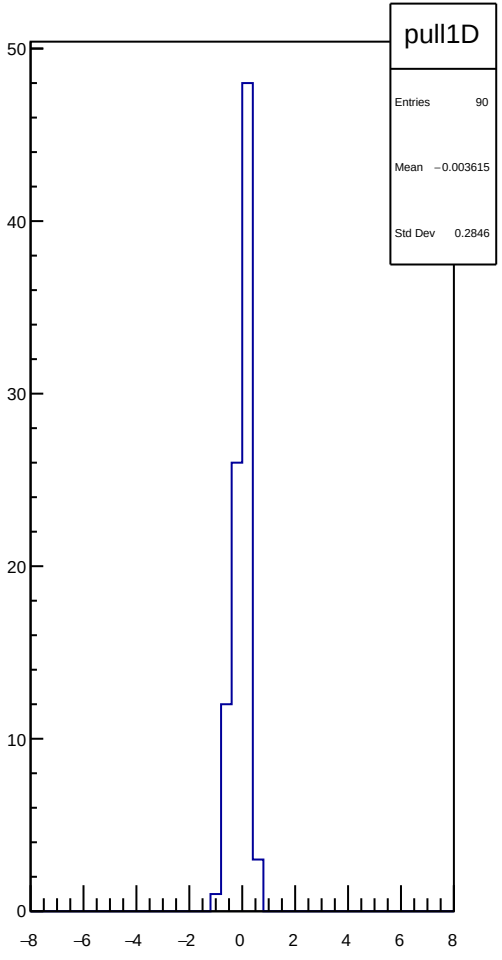

pull1D
Entries 90
Mean −0.003322
Std Dev 0.1784
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

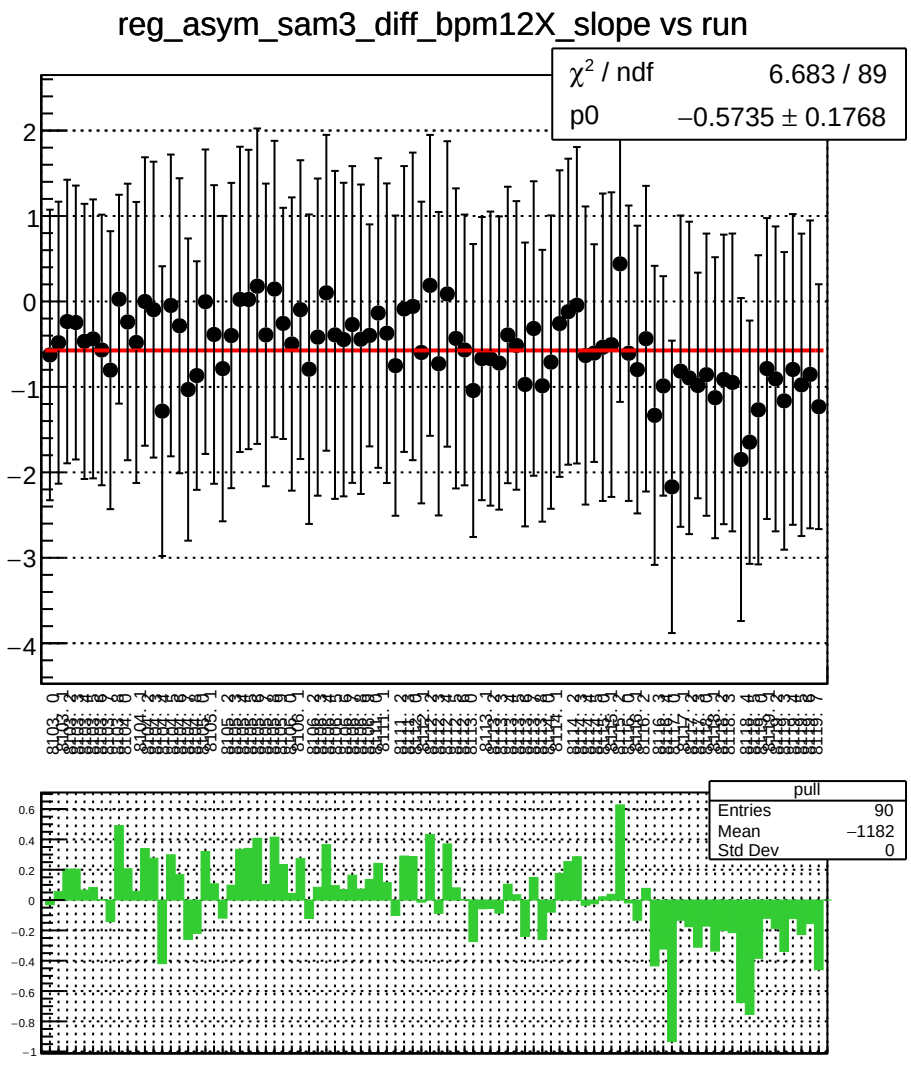

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 6.43 / 89
p0 −2.674 ± 4.401
pull
Entries 90
Mean 1269
Std Dev 0

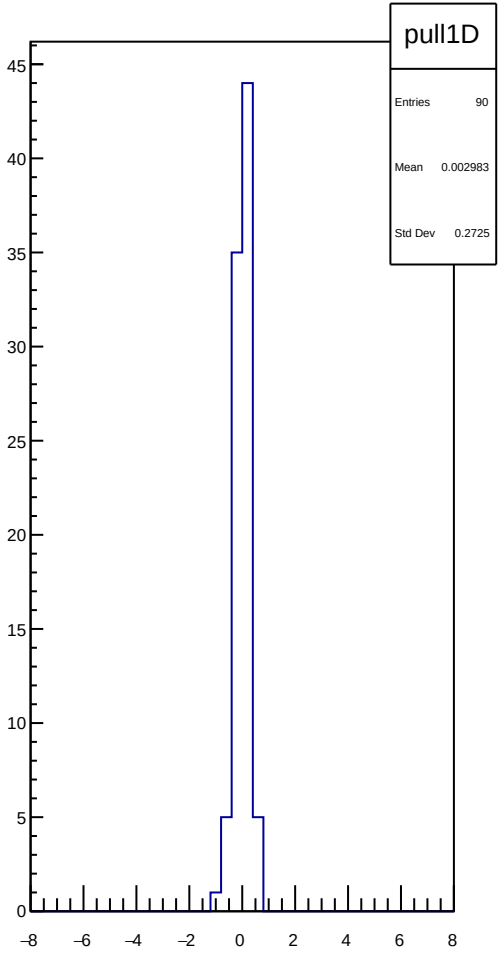

pull1D
Entries 90
Mean 0.003464
Std Dev 0.2673

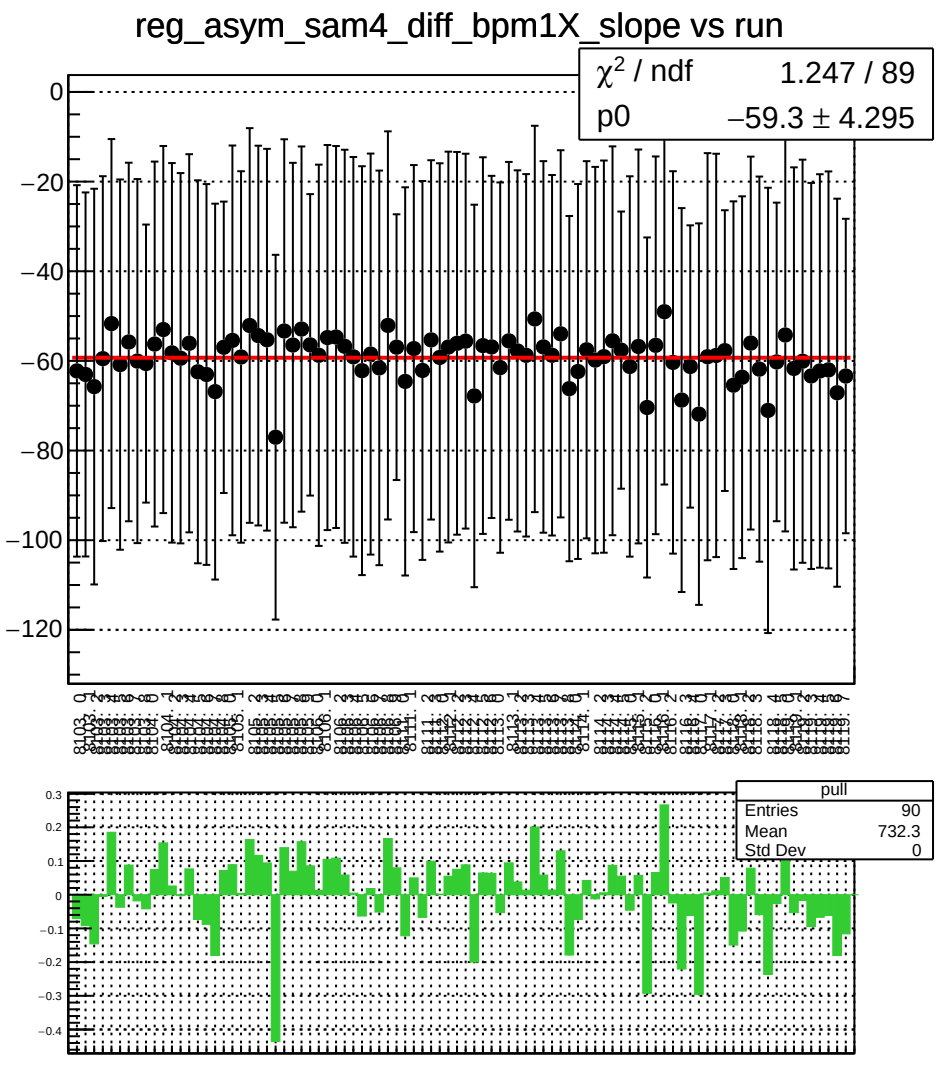

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.473 / 89
p0 −86.47 ± 2.785
pull
Entries 90
Mean 573.1
Std Dev 0
pull1D
Entries 90
Mean 0.003585
Std Dev 0.1657

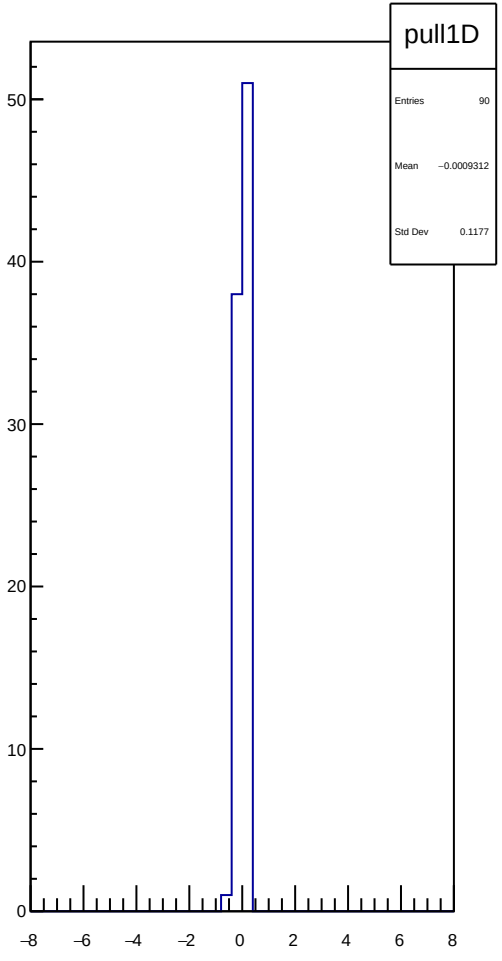

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 7.29 / 89
p0 18.95 ± 4.706
pull
Entries 90
Mean 1277
Std Dev 0

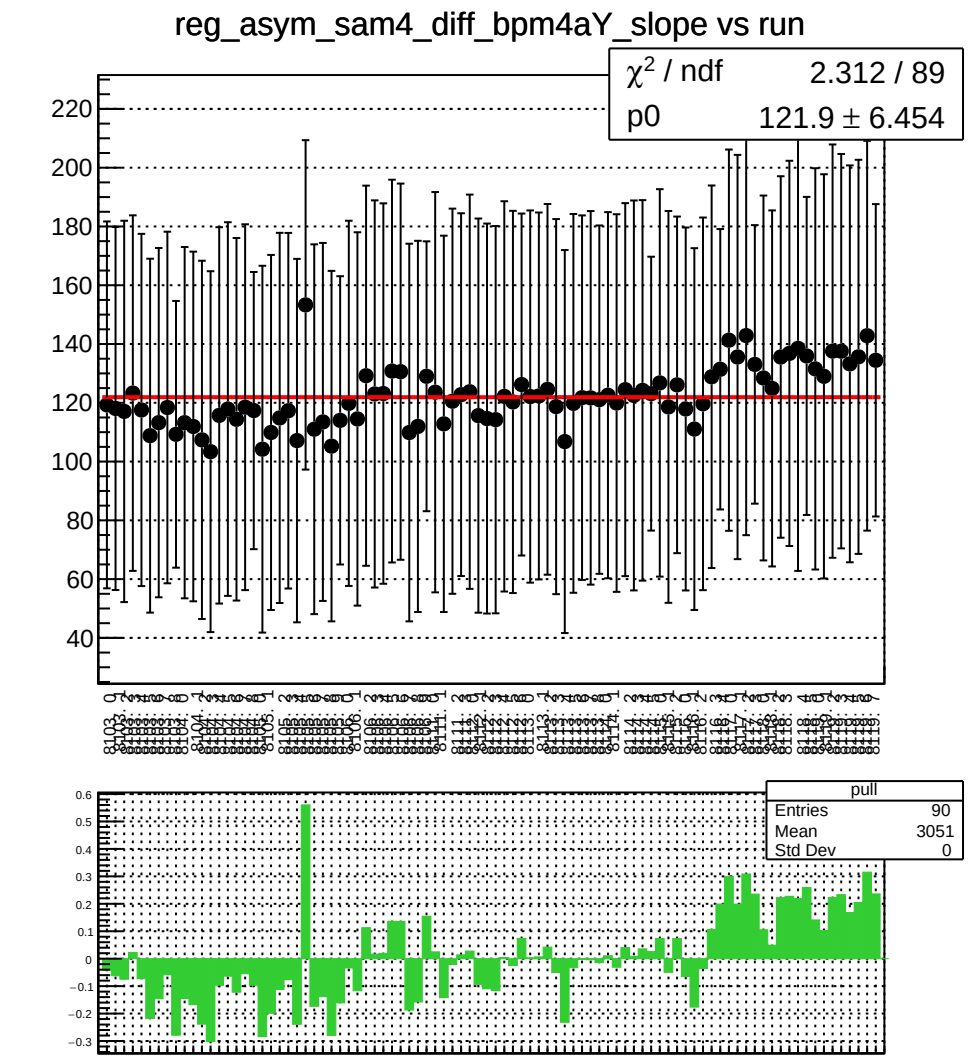

pull1D
Entries 90
Mean −0.003615
Std Dev 0.2846

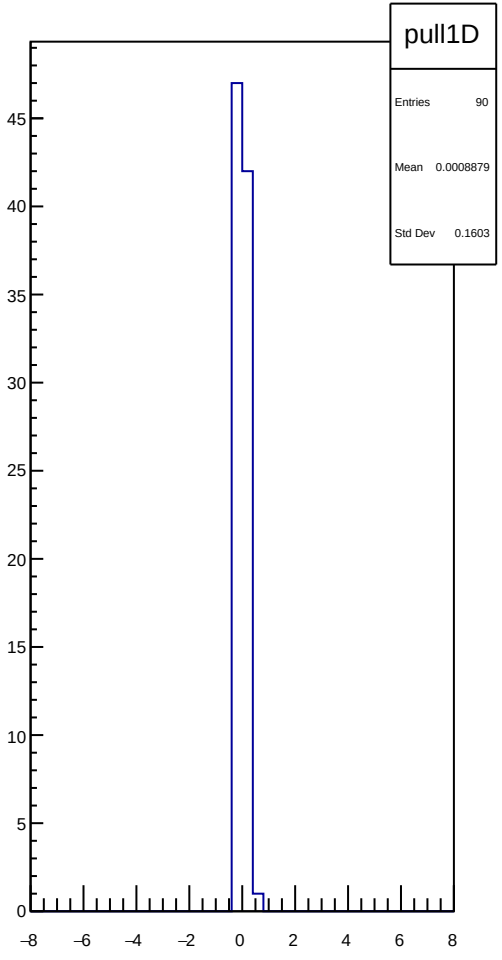

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 6.683 / 89
p0 −0.5735 ± 0.1768
pull
Entries 90
Mean −1182
Std Dev 0

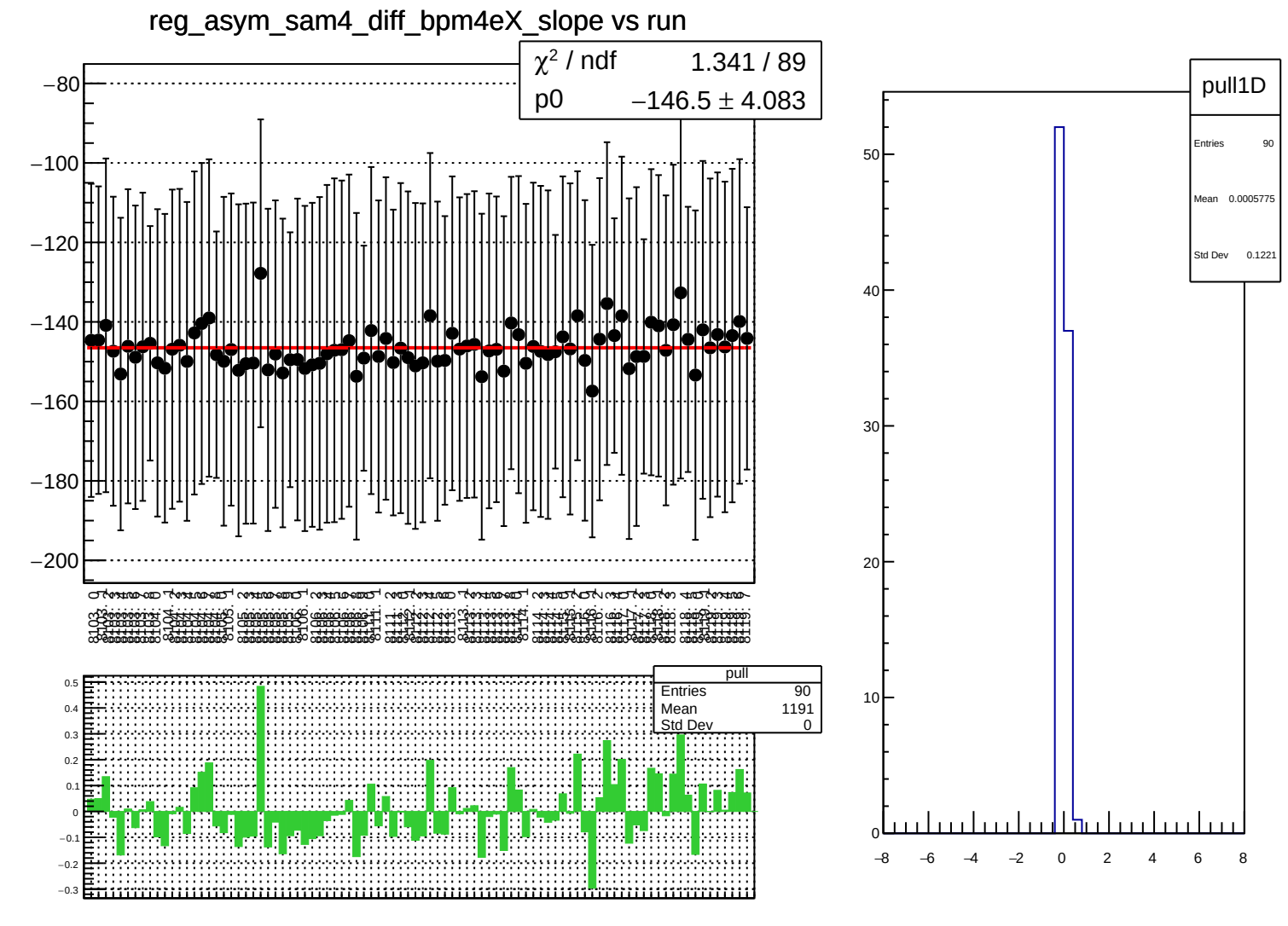

pull1D
Entries 90
Mean 0.002983
Std Dev 0.2725

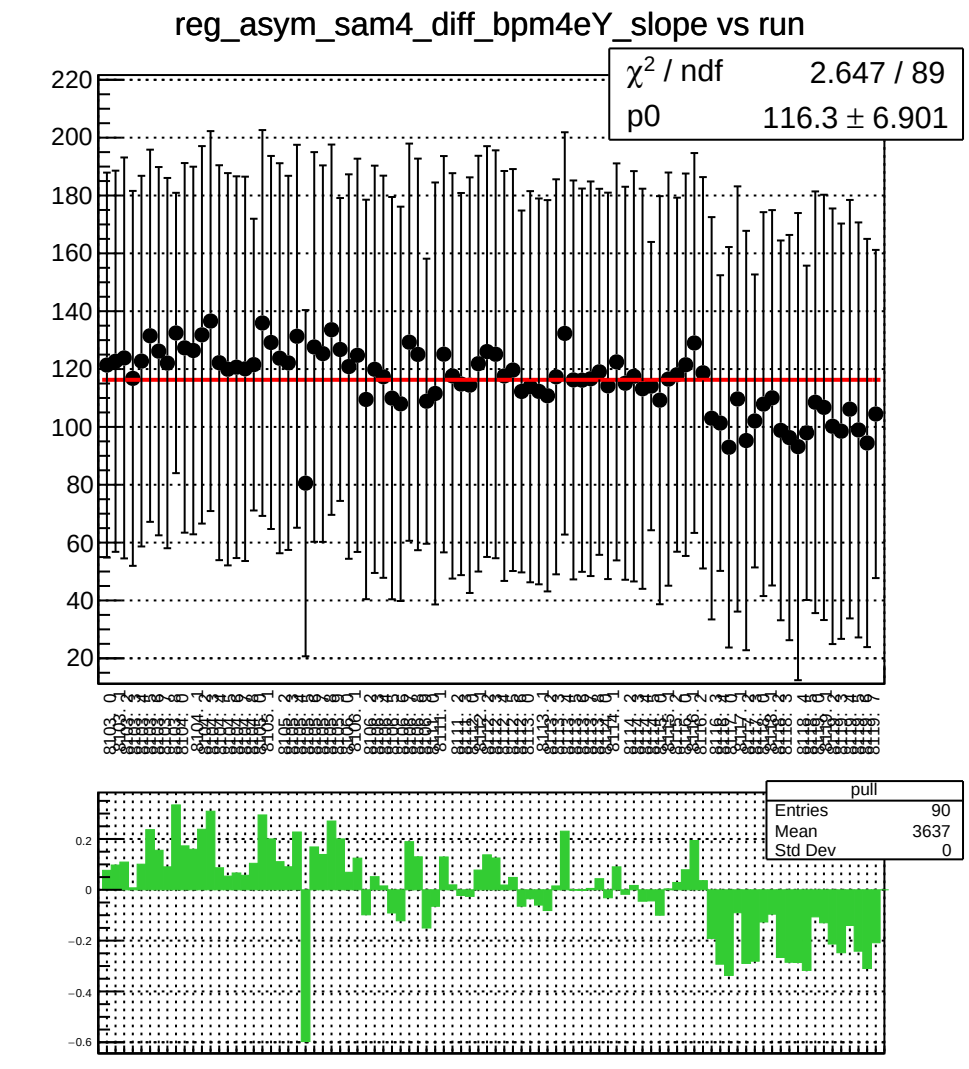

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1.247 / 89
p0 −59.3 ± 4.295
pull
Entries 90
Mean 732.3
Std Dev 0

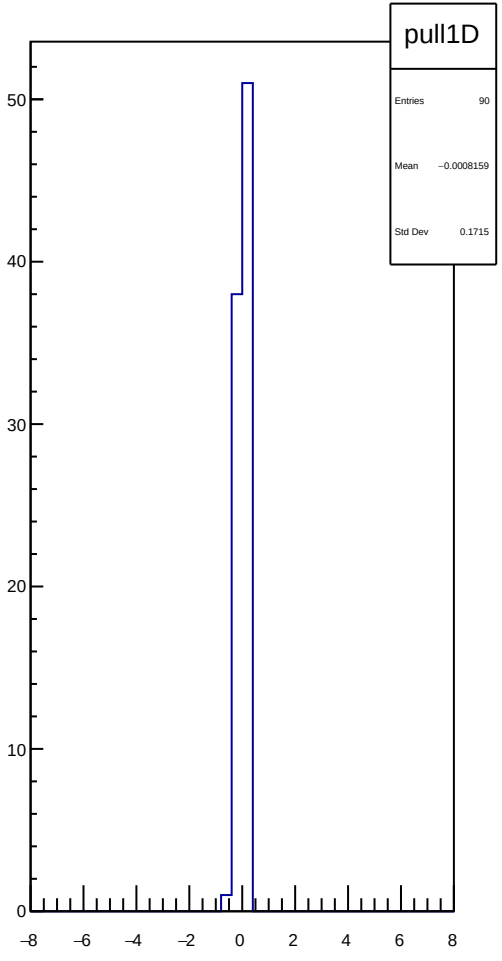

pull1D
Entries 90
Mean −0.0009312
Std Dev 0.1177

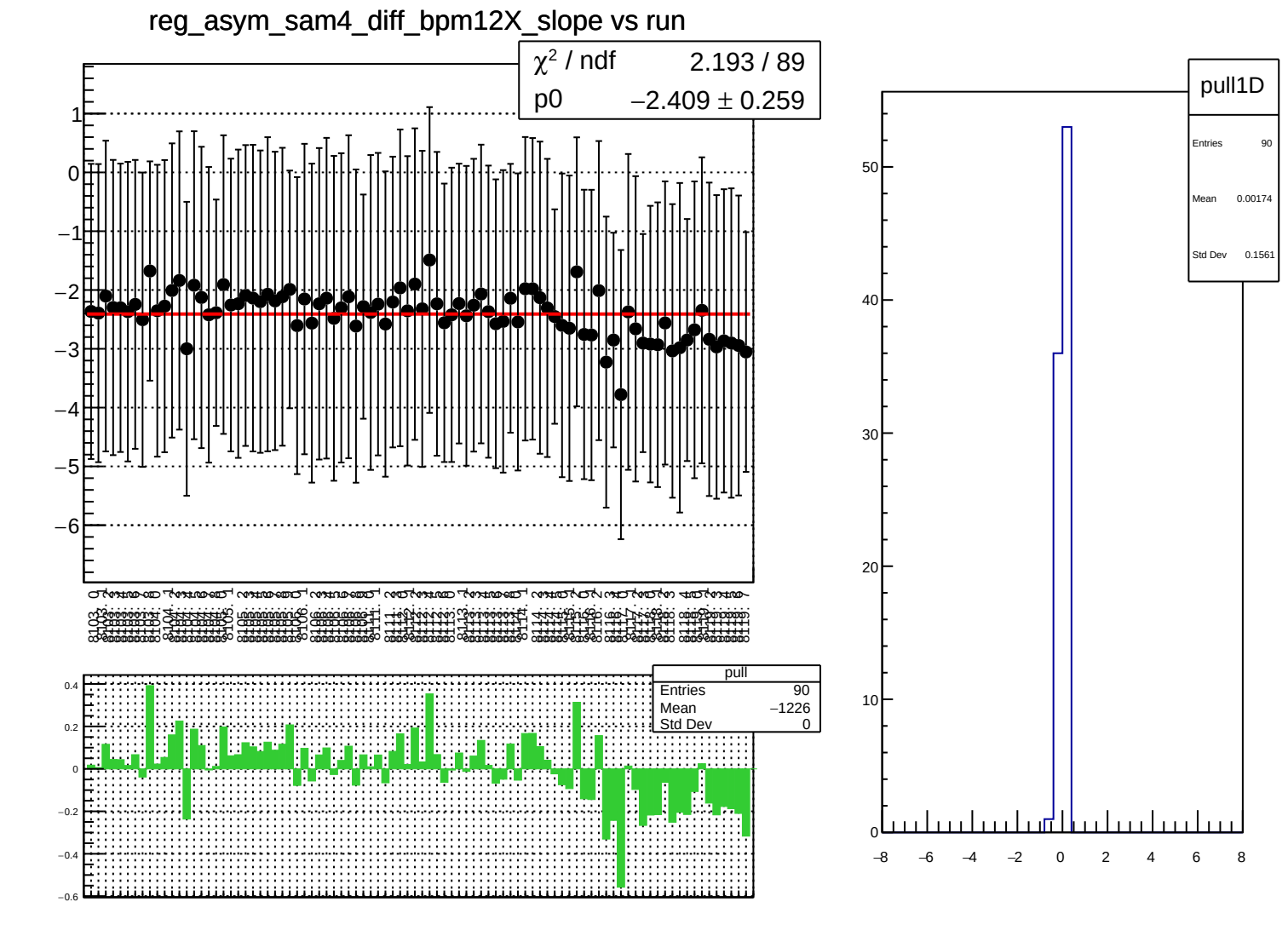

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.312 / 89
p0 121.9 ± 6.454
pull
Entries 90
Mean 3051
Std Dev 0

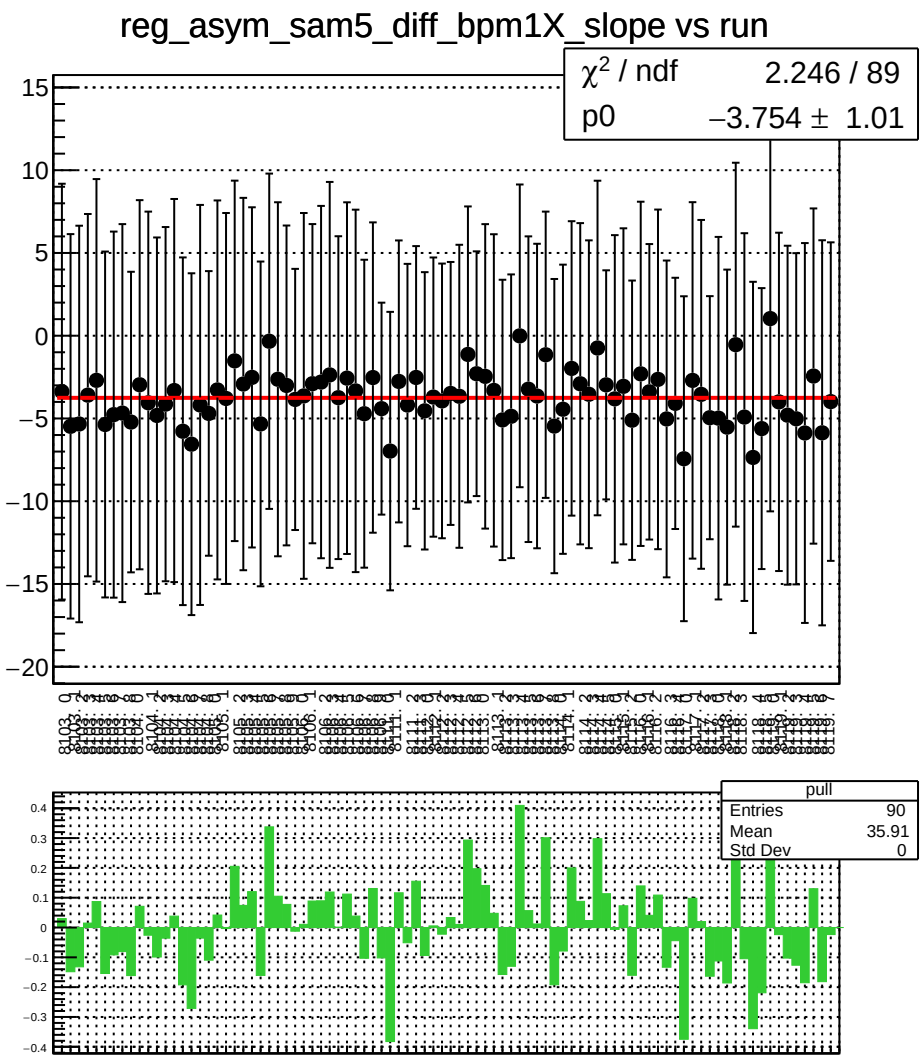

pull1D
Entries 90
Mean 0.0008879
Std Dev 0.1603

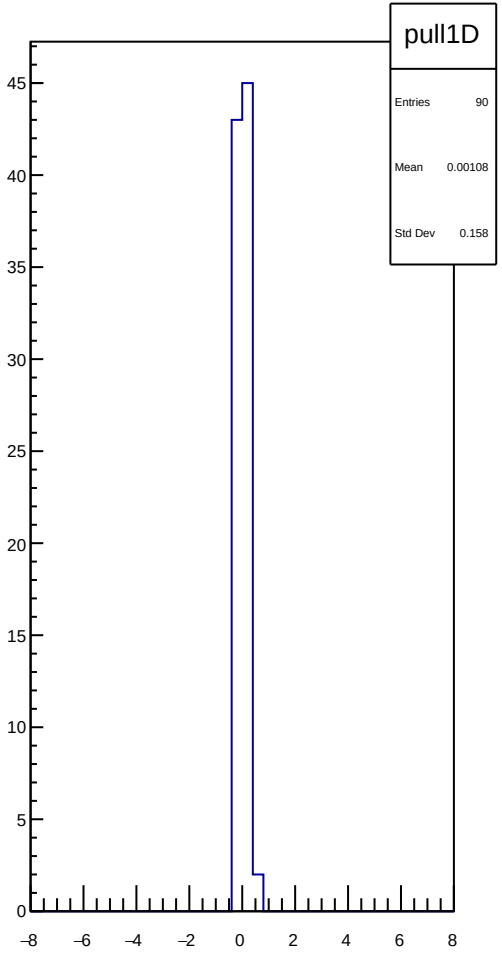

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.341 / 89
p0 −146.5 ± 4.083
pull
Entries 90
Mean 1191
Std Dev 0
pull1D
Entries 90
Mean 0.0005775
Std Dev 0.1221

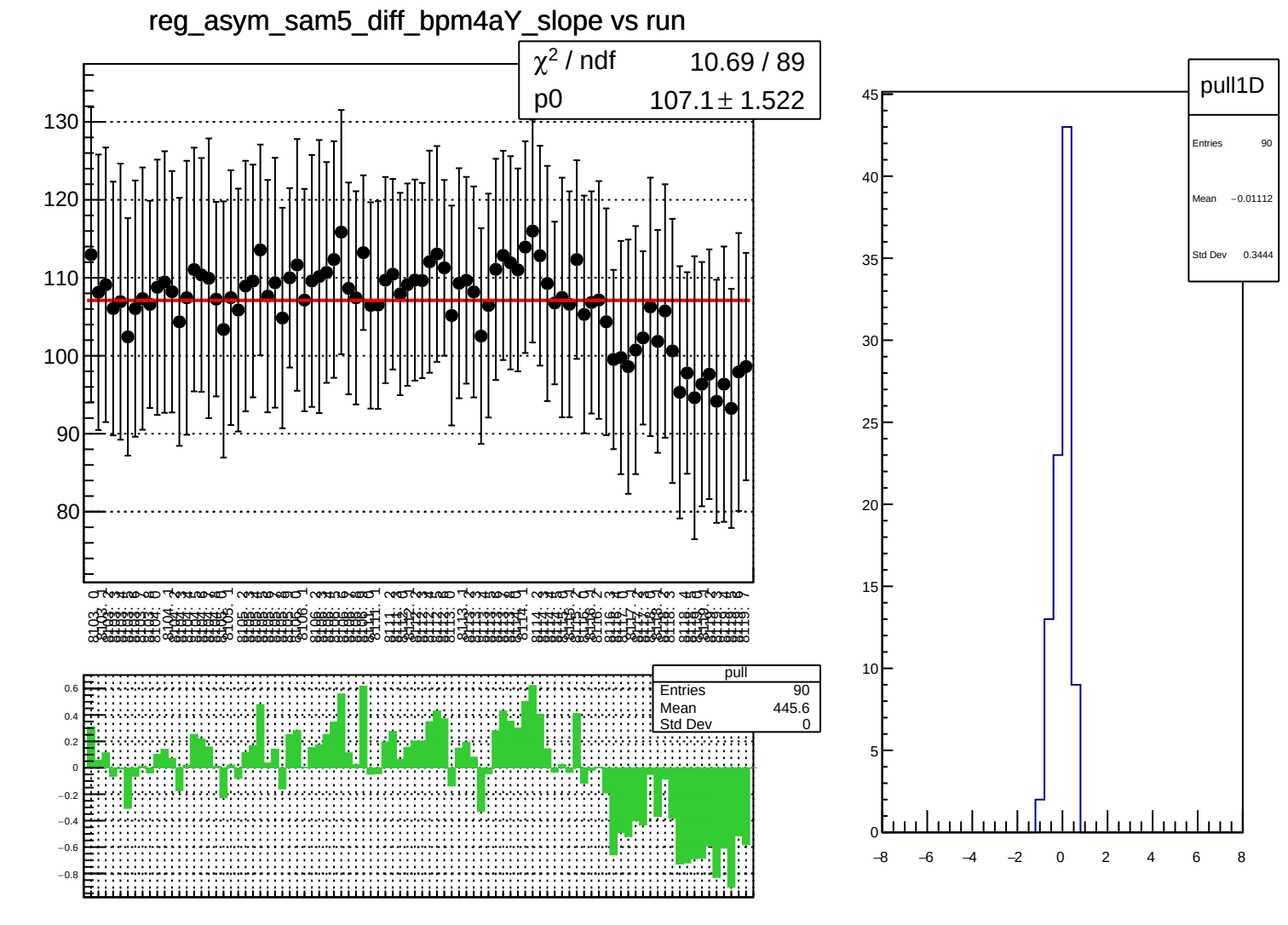

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.647 / 89
p0 116.3 ± 6.901
pull
Entries 90
Mean 3637
Std Dev 0

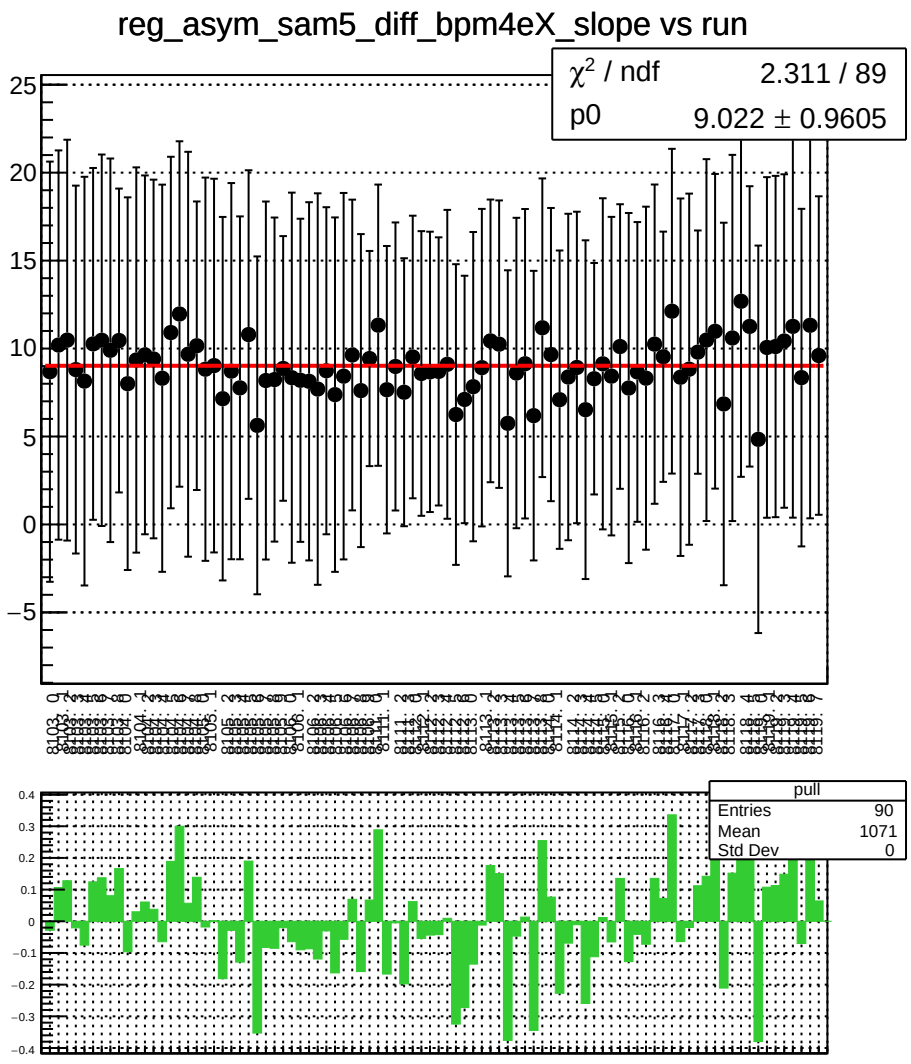

pull1D
Entries 90
Mean −0.0008159
Std Dev 0.1715

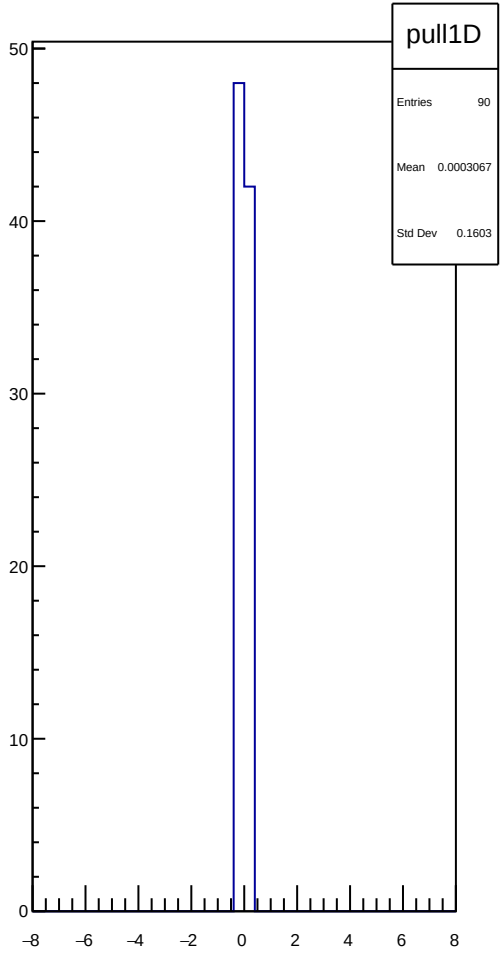

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 2.193 / 89
p0 −2.409 ± 0.259
pull
Entries 90
Mean −1226
Std Dev 0
pull1D
Entries 90
Mean 0.00174
Std Dev 0.1561

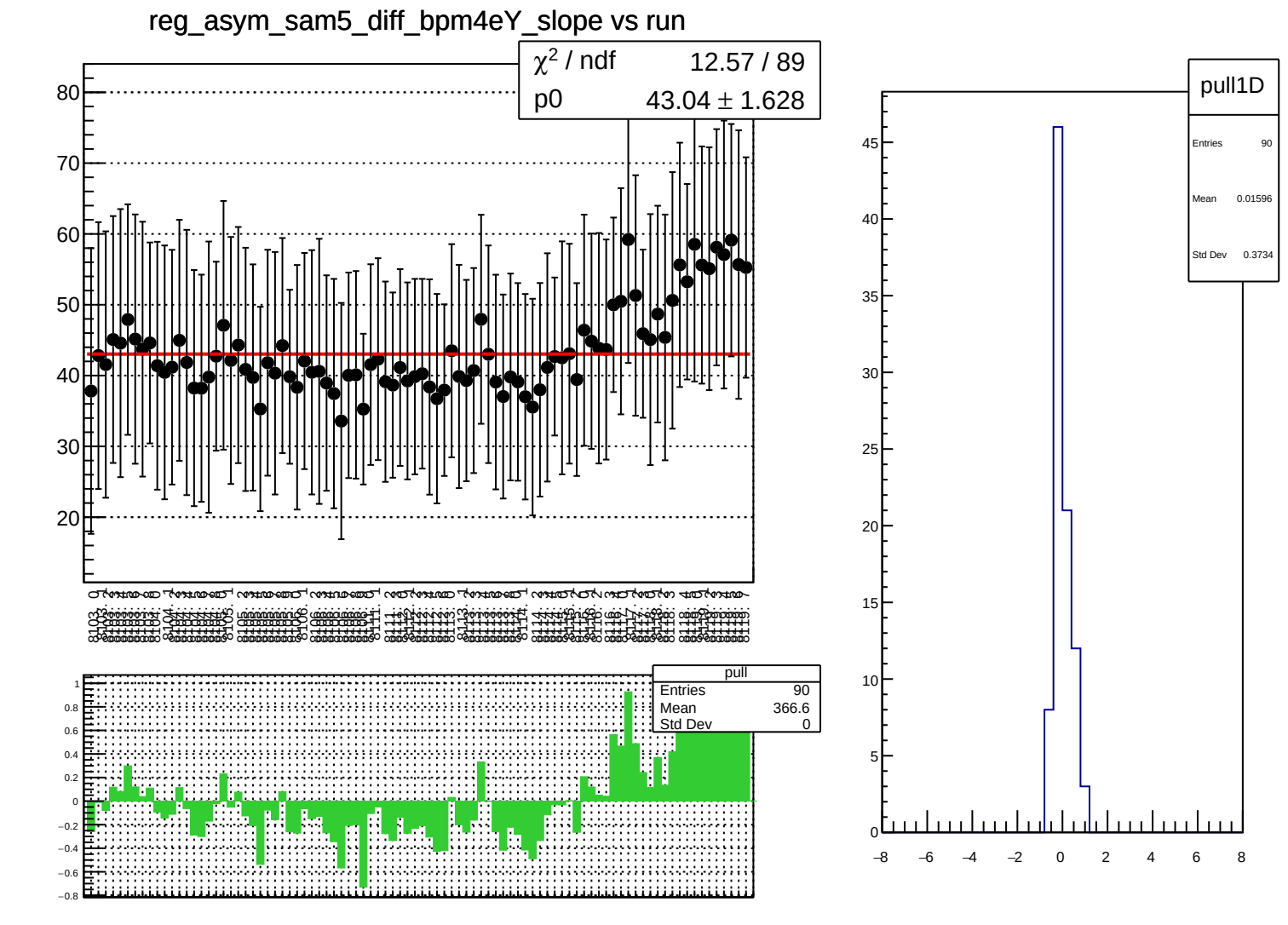

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 2.246 / 89
p0 −3.754 ± 1.01
pull
Entries 90
Mean 35.91
Std Dev 0

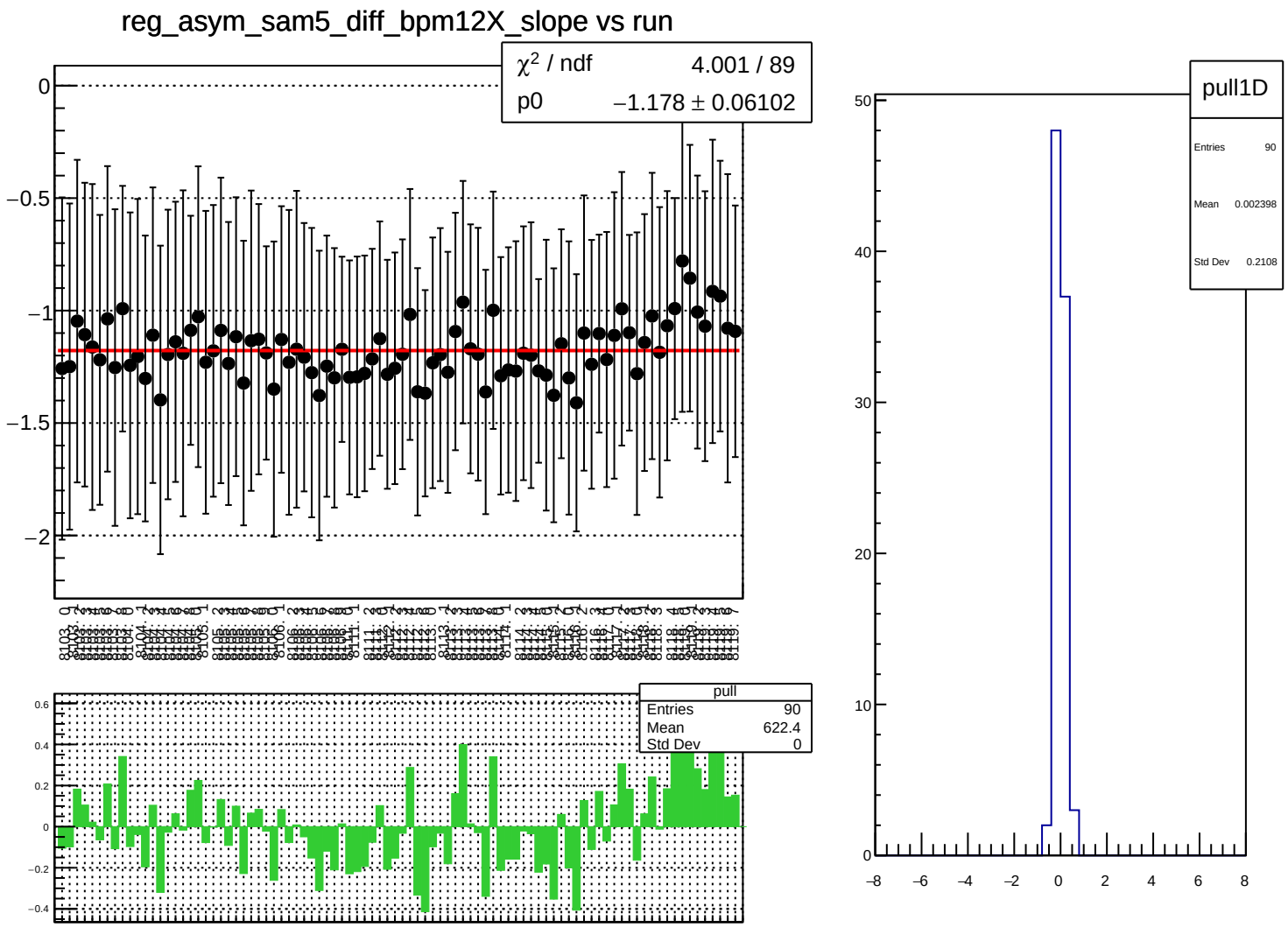

pull1D
Entries 90
Mean 0.00108
Std Dev 0.158

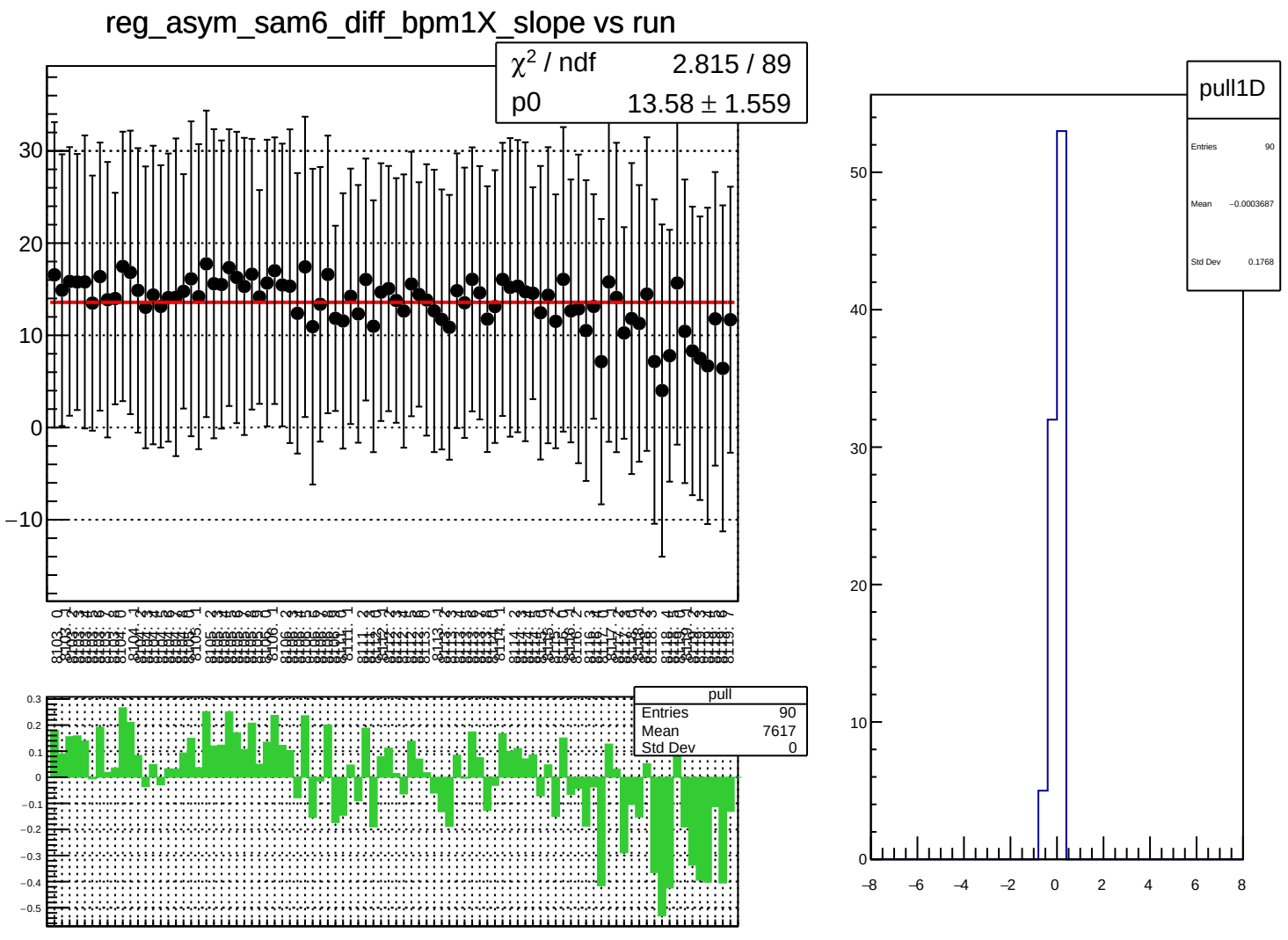

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 10.69 / 89
p0 107.1 ± 1.522
pull
Entries 90
Mean 445.6
Std Dev 0
pull1D
Entries 90
Mean −0.01112
Std Dev 0.3444

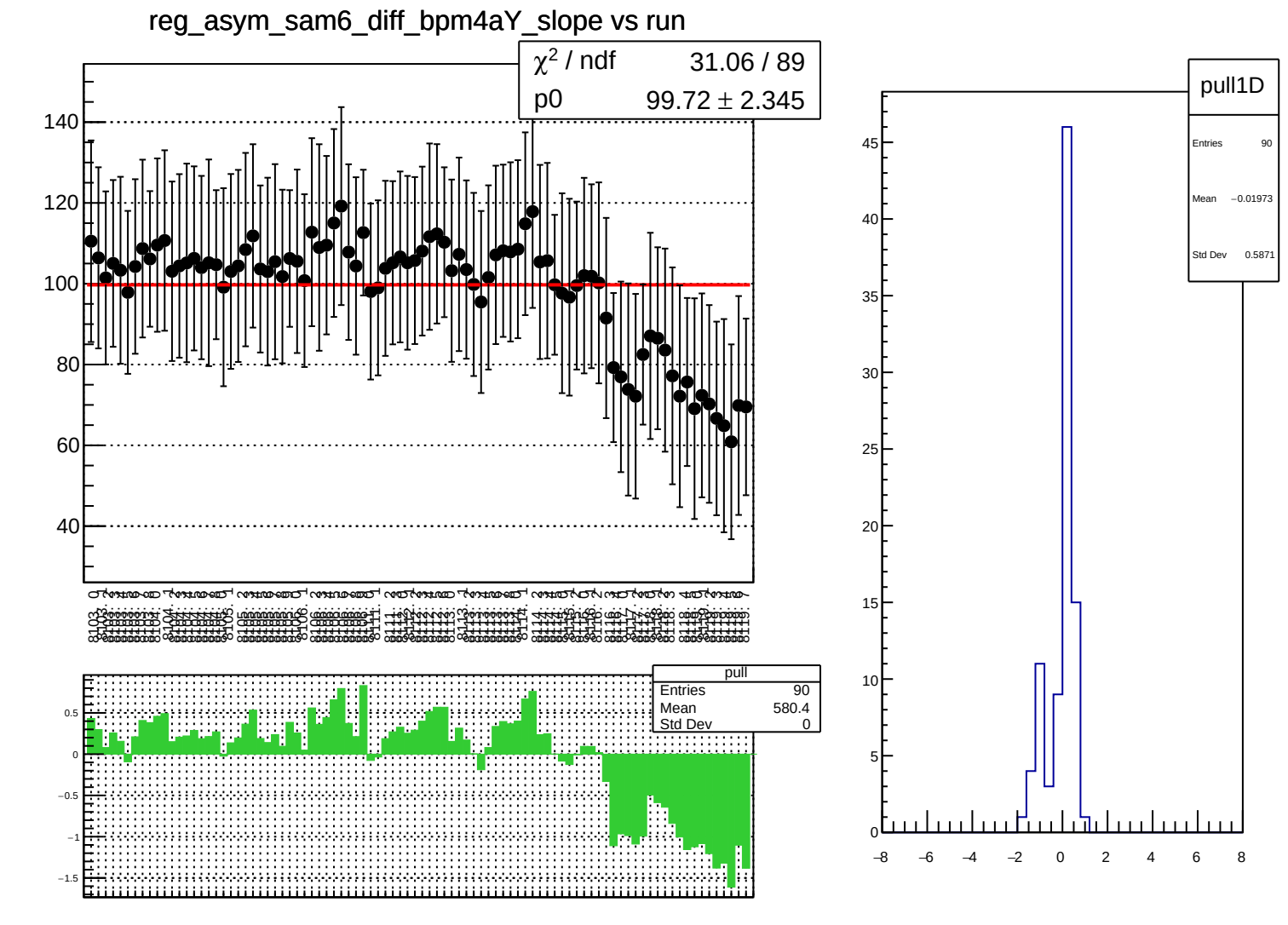

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 2.311 / 89
p0 9.022 ± 0.9605
pull
Entries 90
Mean 1071
Std Dev 0

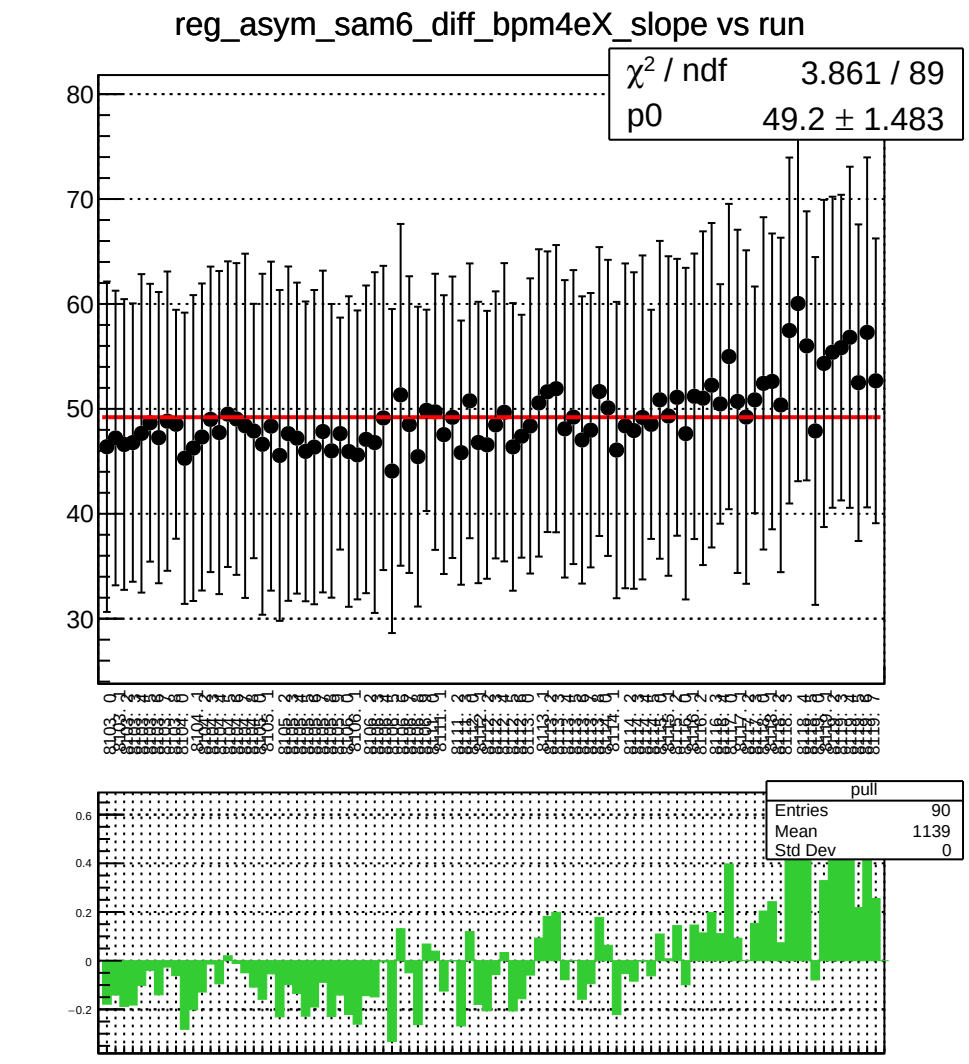

pull1D
Entries 90
Mean 0.0003067
Std Dev 0.1603

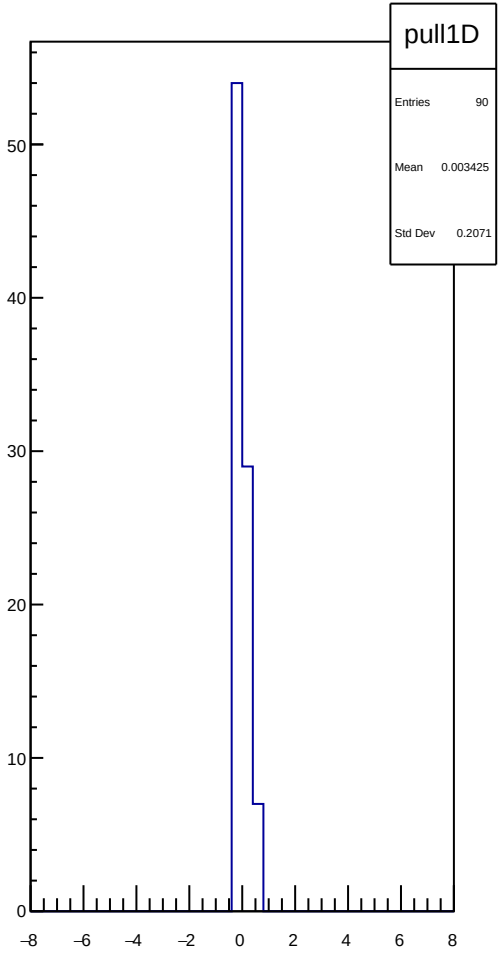

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 12.57 / 89
p0 43.04 ± 1.628
pull
Entries 90
Mean 366.6
Std Dev 0
pull1D
Entries 90
Mean 0.01596
Std Dev 0.3734

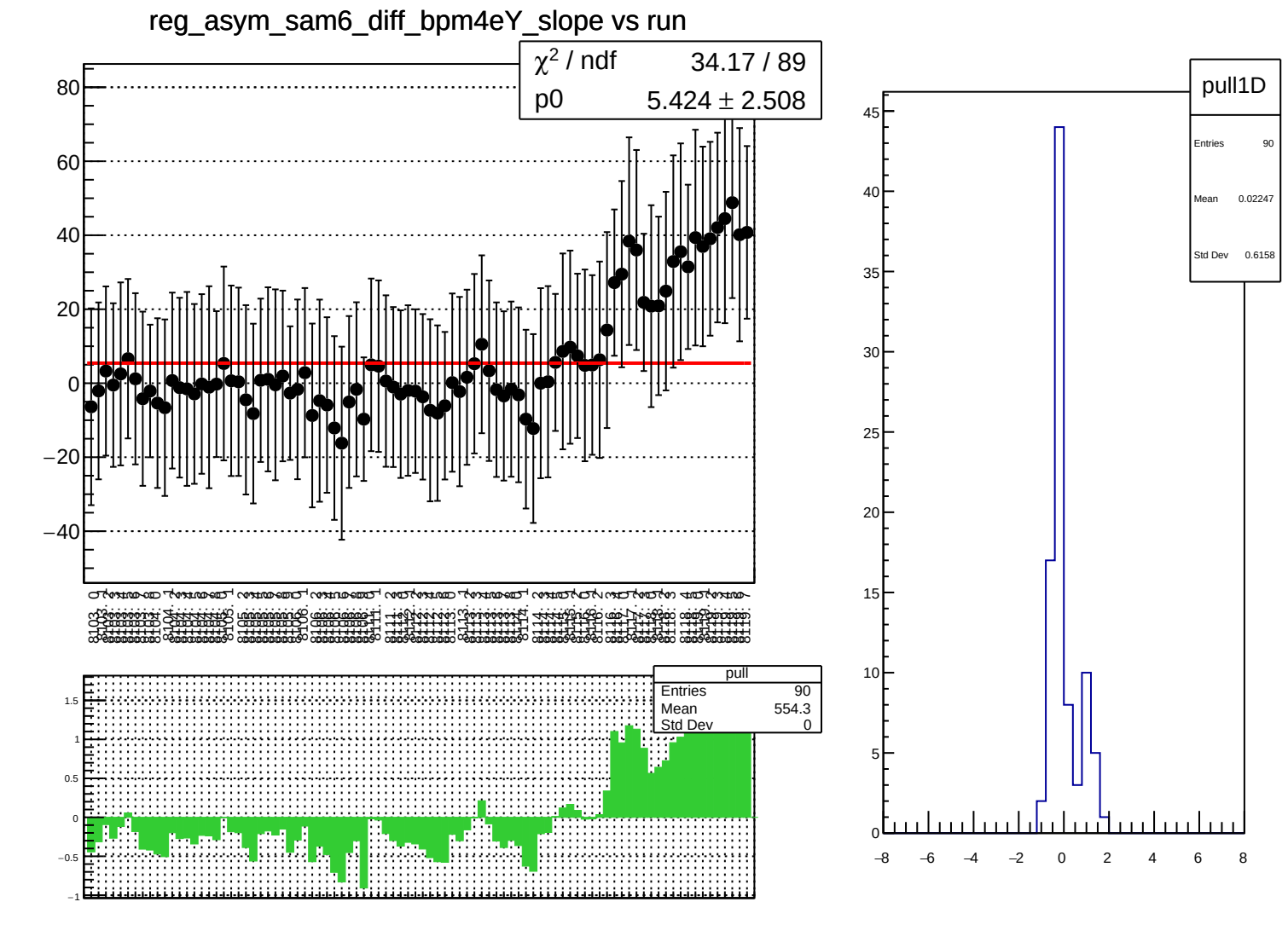

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4.001 / 89
p0 −1.178 ± 0.06102
pull
Entries 90
Mean 622.4
Std Dev 0
pull1D
Entries 90
Mean 0.002398
Std Dev 0.2108

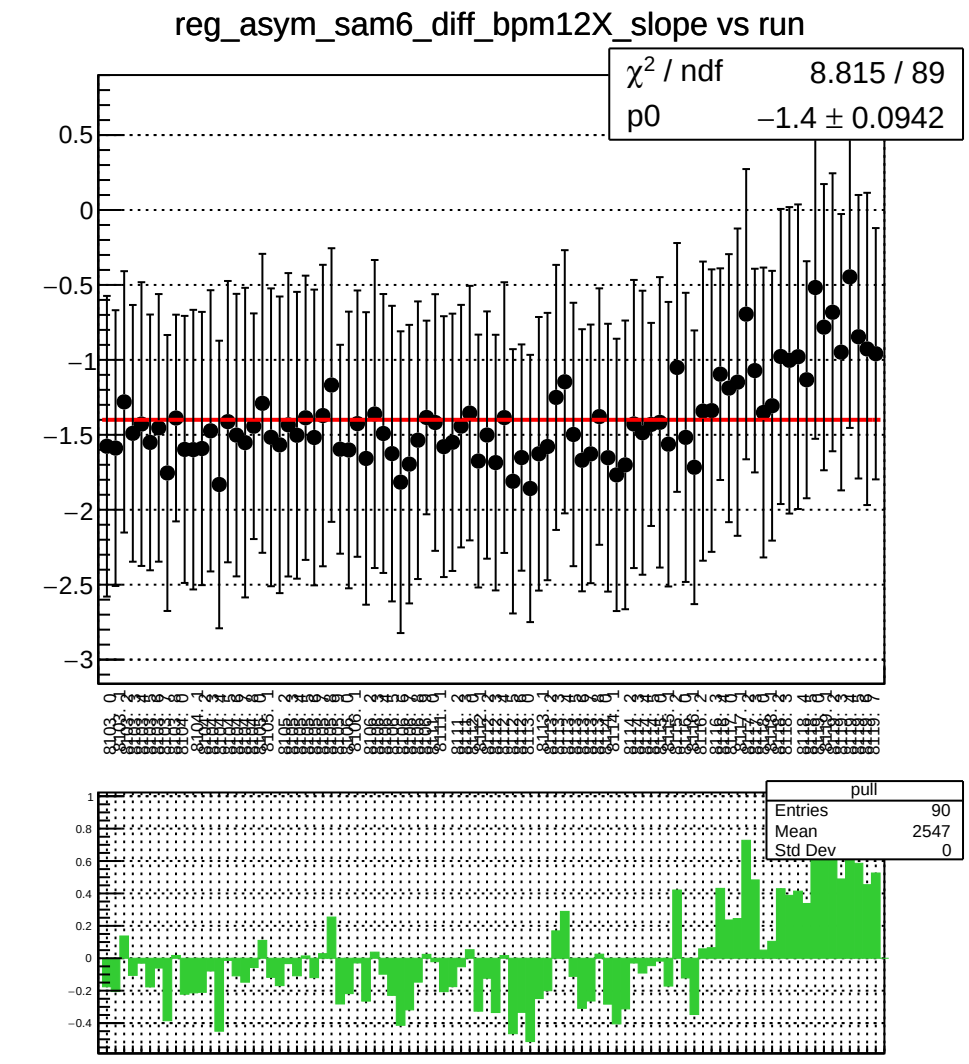

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.815 / 89
p0 13.58 ± 1.559
pull
Entries 90
Mean 7617
Std Dev 0
pull1D
Entries 90
Mean −0.0003687
Std Dev 0.1768

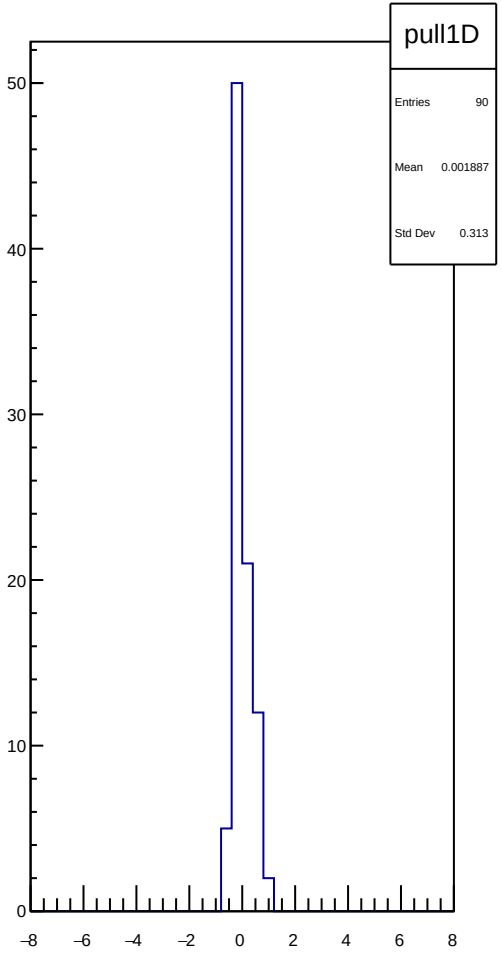

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 31.06 / 89
p0 99.72 ± 2.345
140
120
100
80
60
40
pull
Entries 90
Mean 580.4
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.01973
Std Dev 0.5871
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

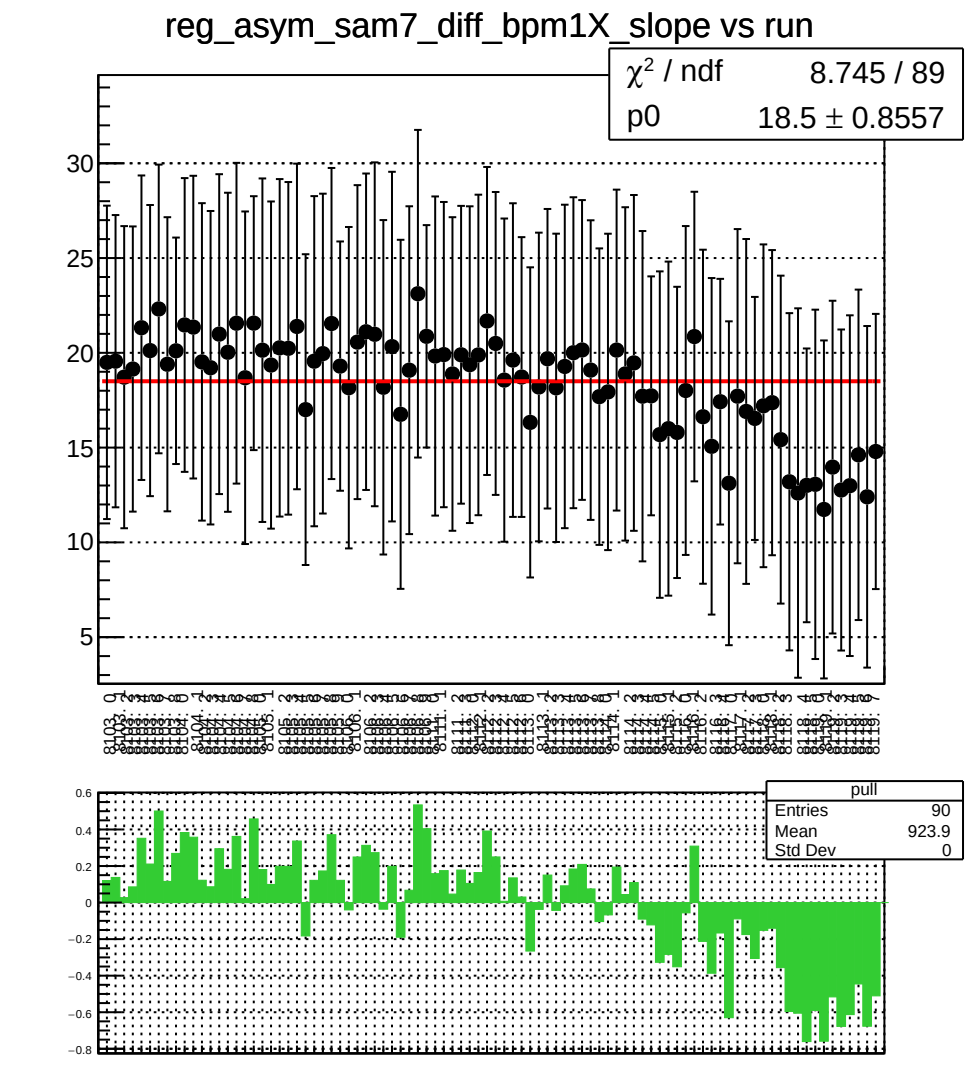

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.861 / 89
p0 49.2 ± 1.483
pull
Entries 90
Mean 1139
Std Dev 0

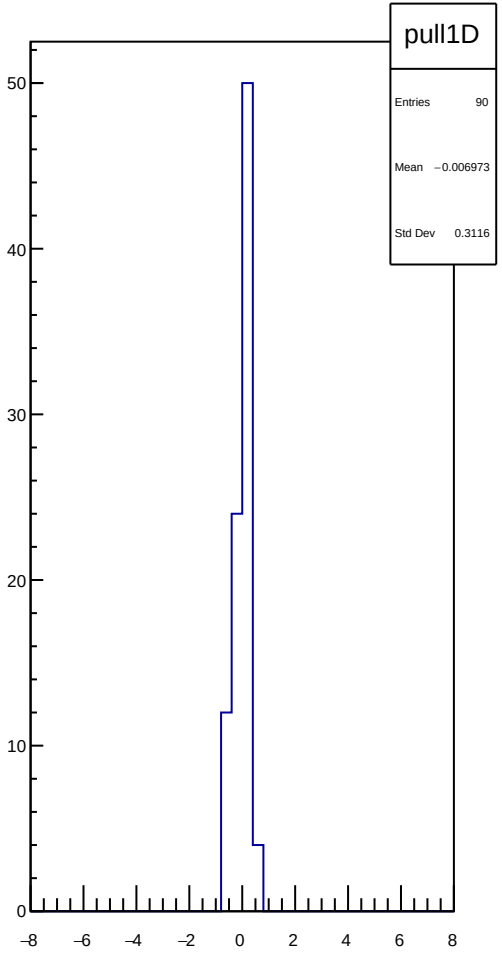

pull1D
Entries 90
Mean 0.003425
Std Dev 0.2071

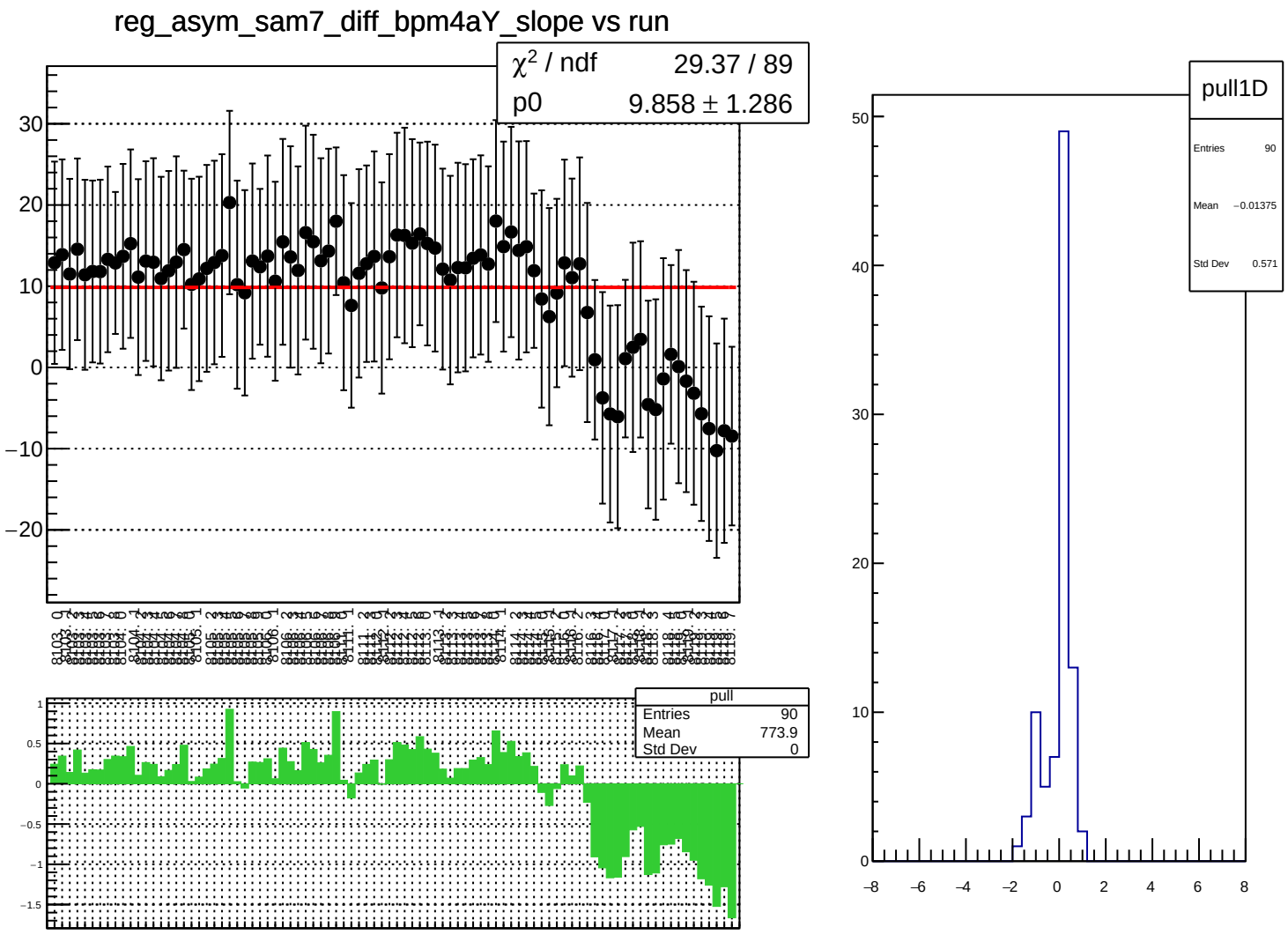

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 34.17 / 89
p0 5.424 ± 2.508
pull
Entries 90
Mean 554.3
Std Dev 0
pull1D
Entries 90
Mean 0.02247
Std Dev 0.6158

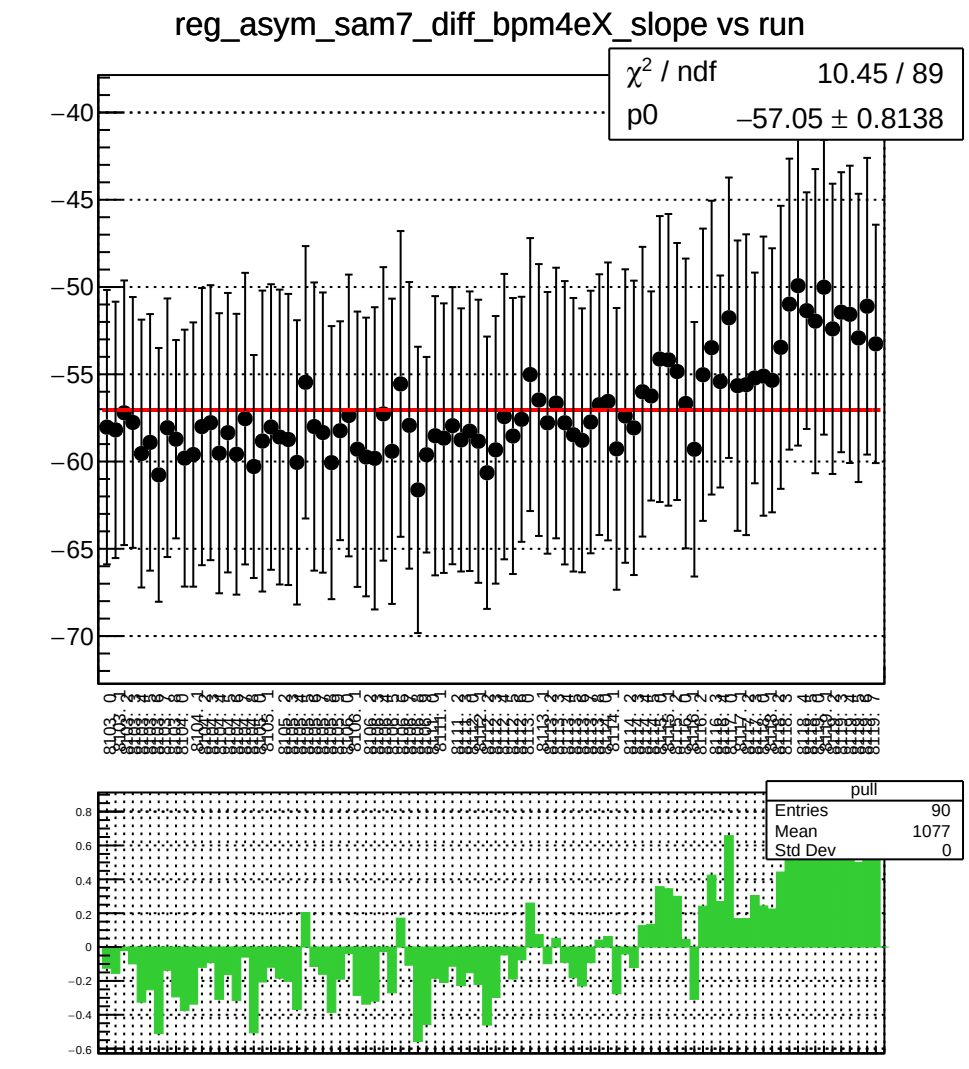

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 8.815 / 89
p0 −1.4 ± 0.0942
pull
Entries 90
Mean 2547
Std Dev 0

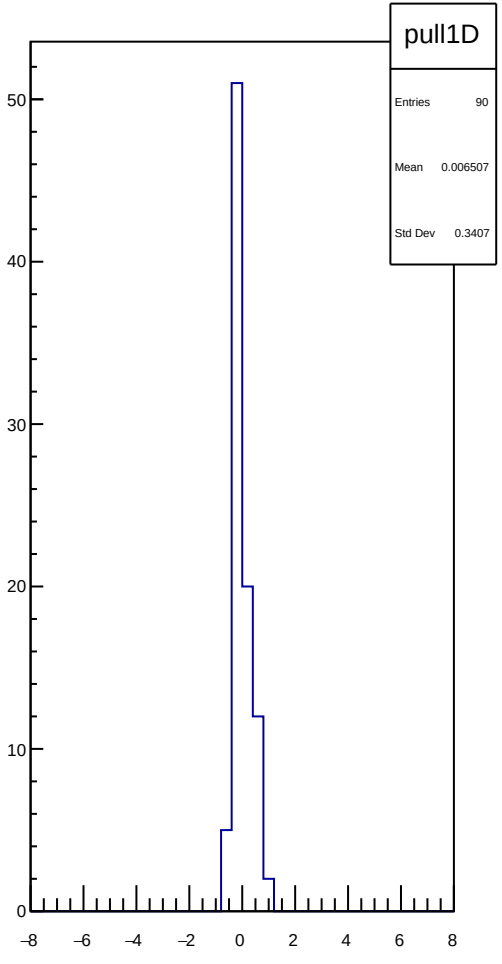

pull1D
Entries 90
Mean 0.001887
Std Dev 0.313

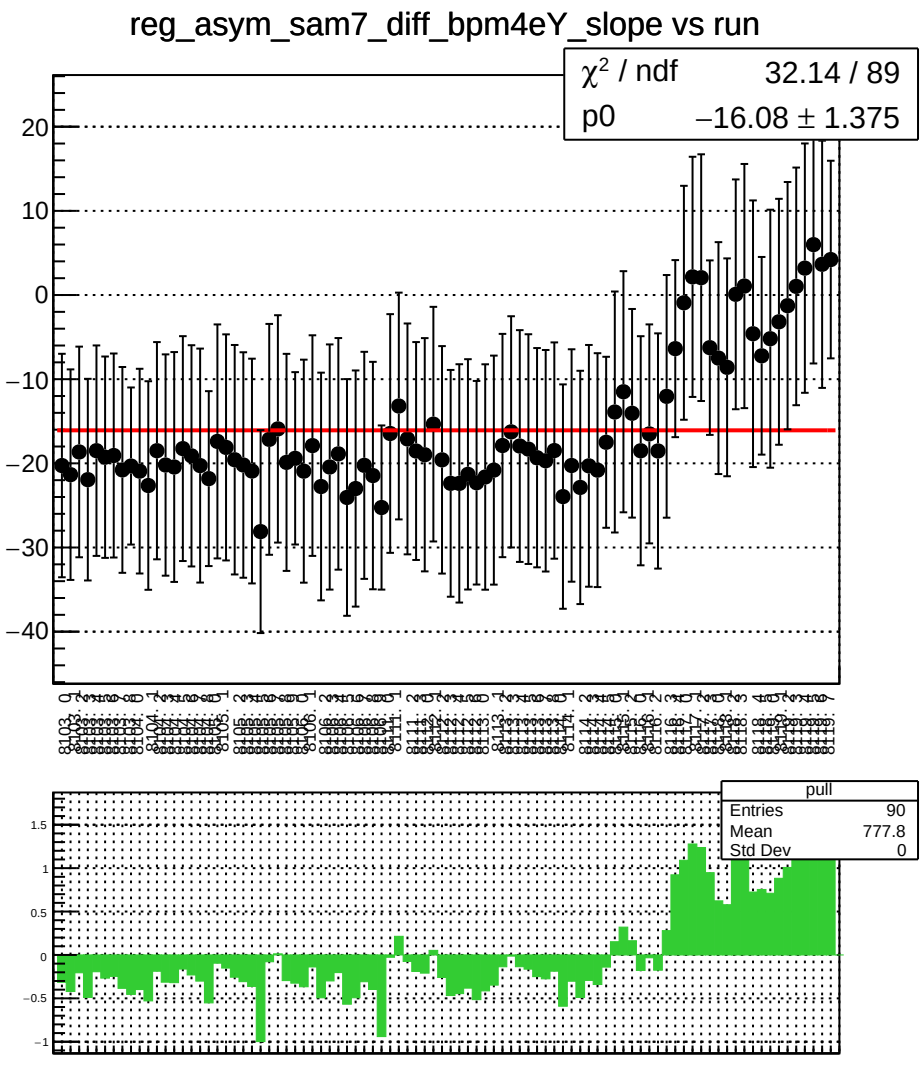

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 8.745 / 89
p0 18.5 ± 0.8557
pull
Entries 90
Mean 923.9
Std Dev 0

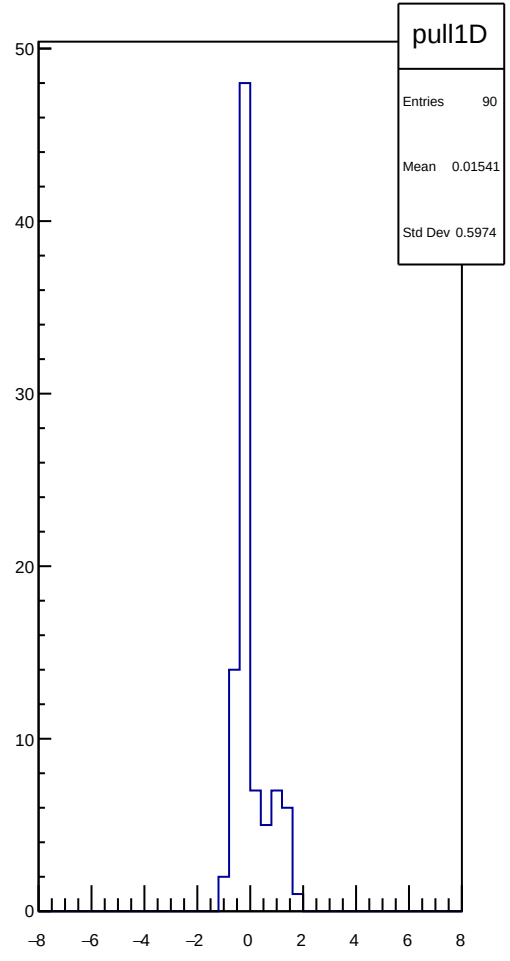

pull1D
Entries 90
Mean −0.006973
Std Dev 0.3116

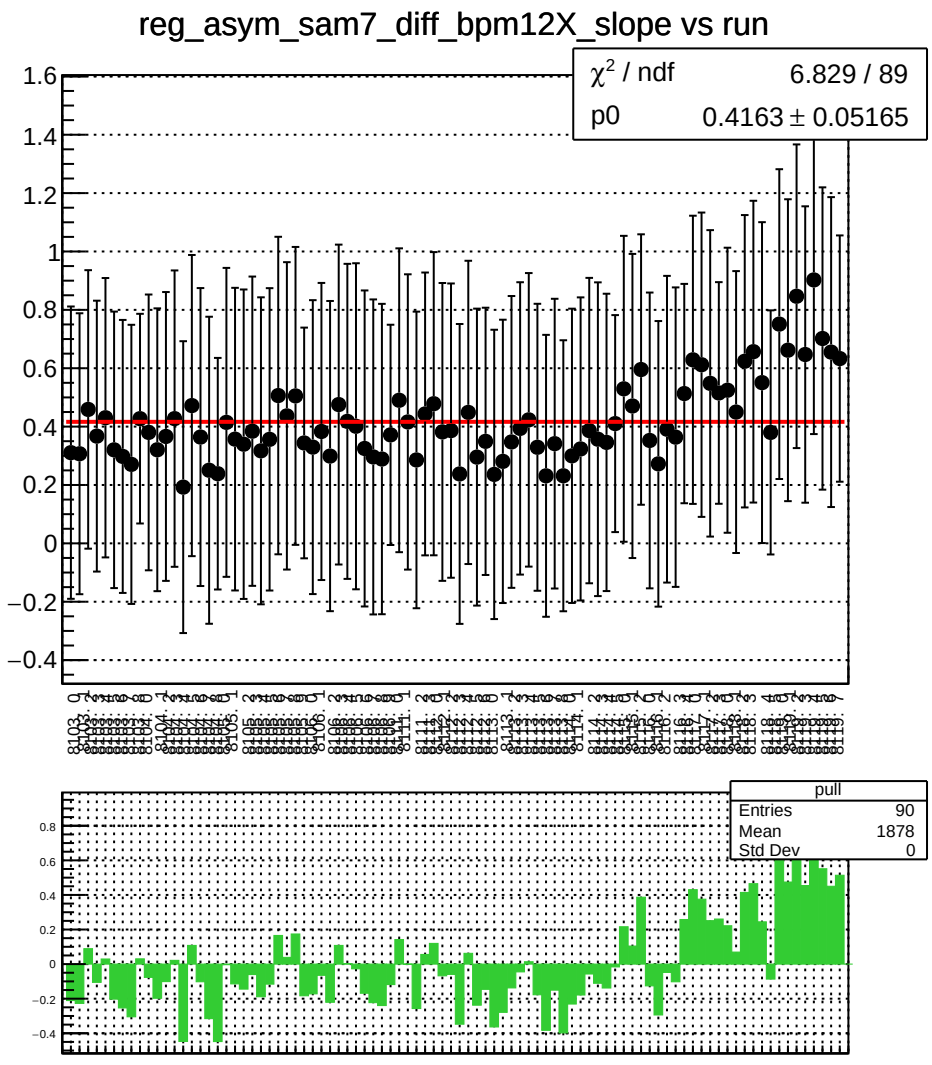

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 29.37 / 89
p0 9.858 ± 1.286
pull
Entries 90
Mean 773.9
Std Dev 0
pull1D
Entries 90
Mean −0.01375
Std Dev 0.571

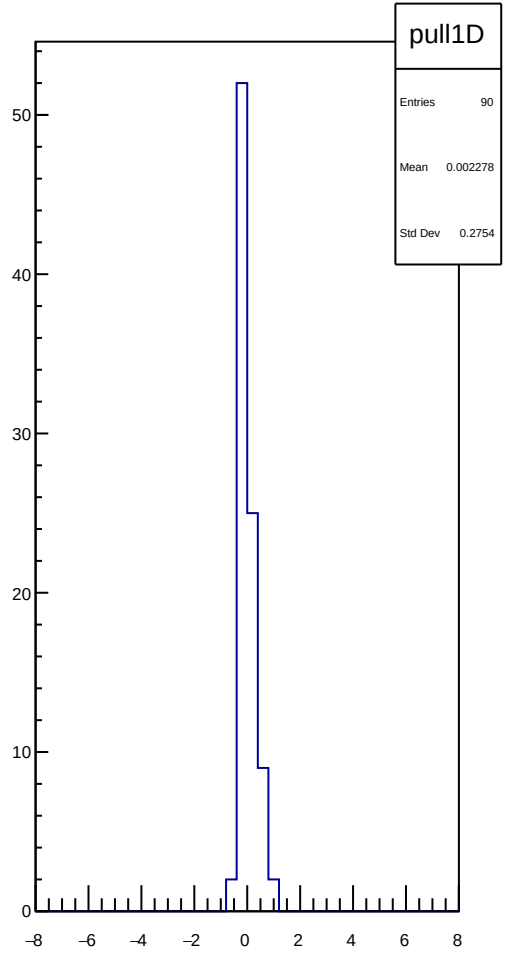

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 10.45 / 89
p0 −57.05 ± 0.8138
pull
Entries 90
Mean 1077
Std Dev 0

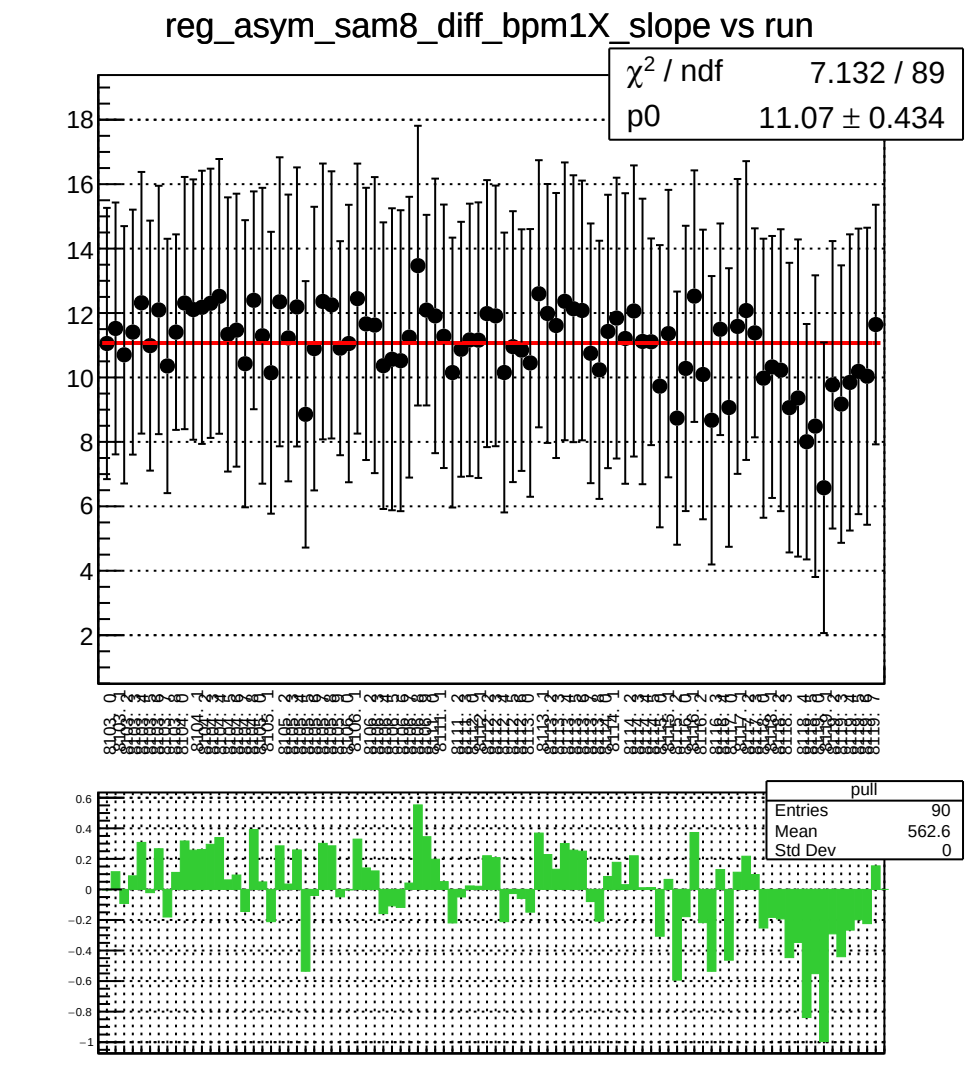

pull1D
Entries 90
Mean 0.006507
Std Dev 0.3407

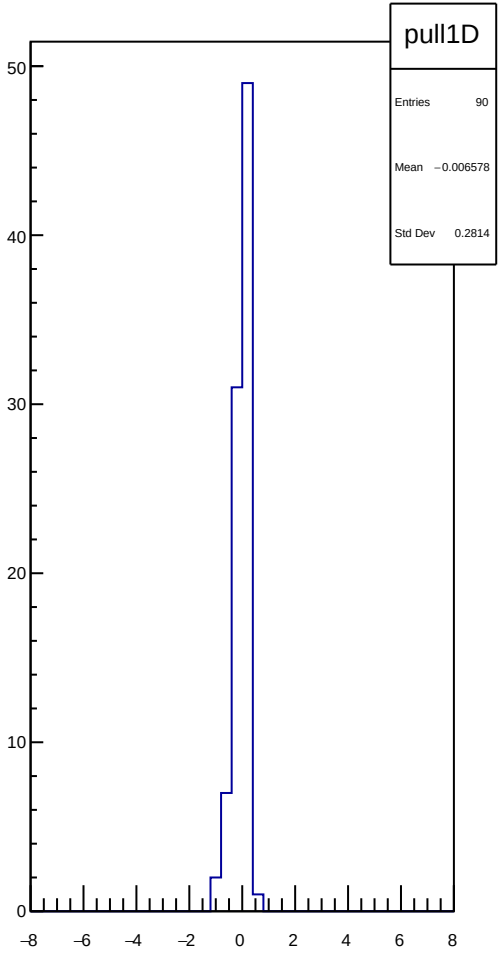

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 32.14 / 89
p0 −16.08 ± 1.375
pull
Entries 90
Mean 777.8
Std Dev 0

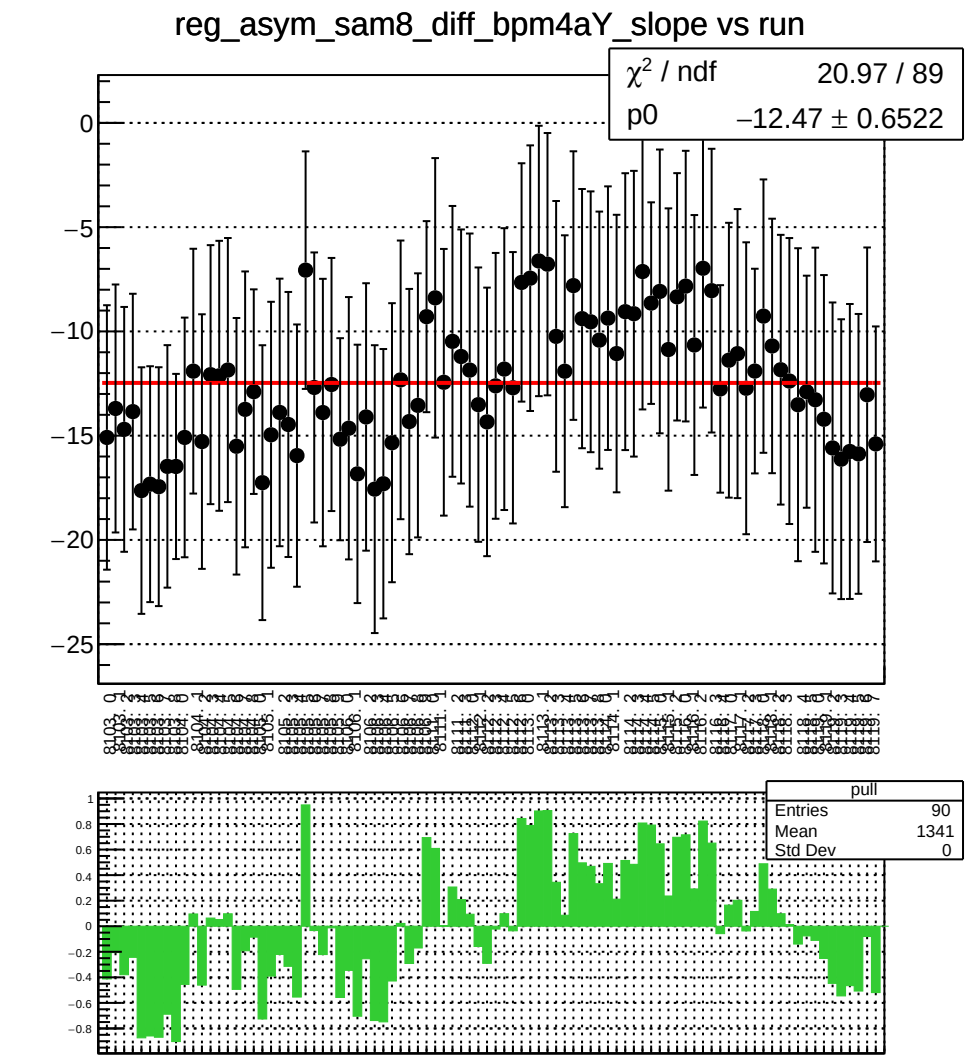

pull1D
Entries 90
Mean 0.01541
Std Dev 0.5974

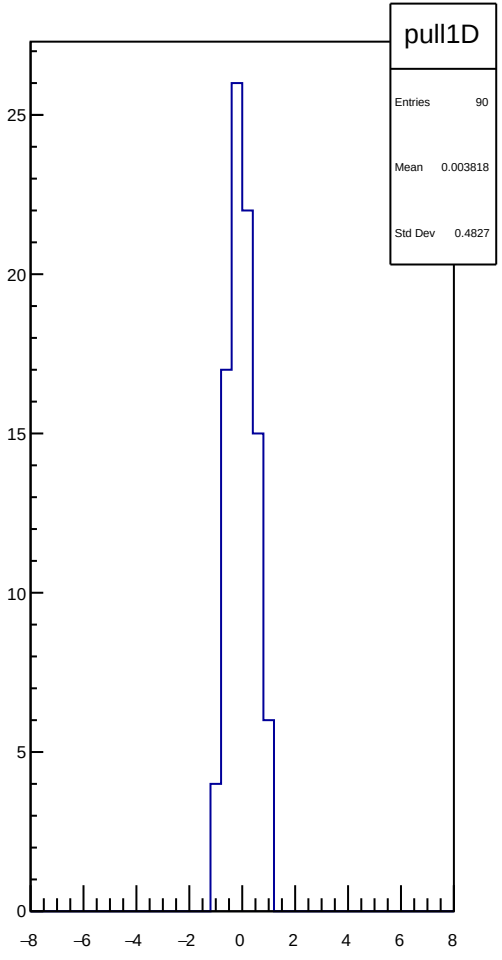

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 6.829 / 89
p0 0.4163 ± 0.05165
pull
Entries 90
Mean 1878
Std Dev 0

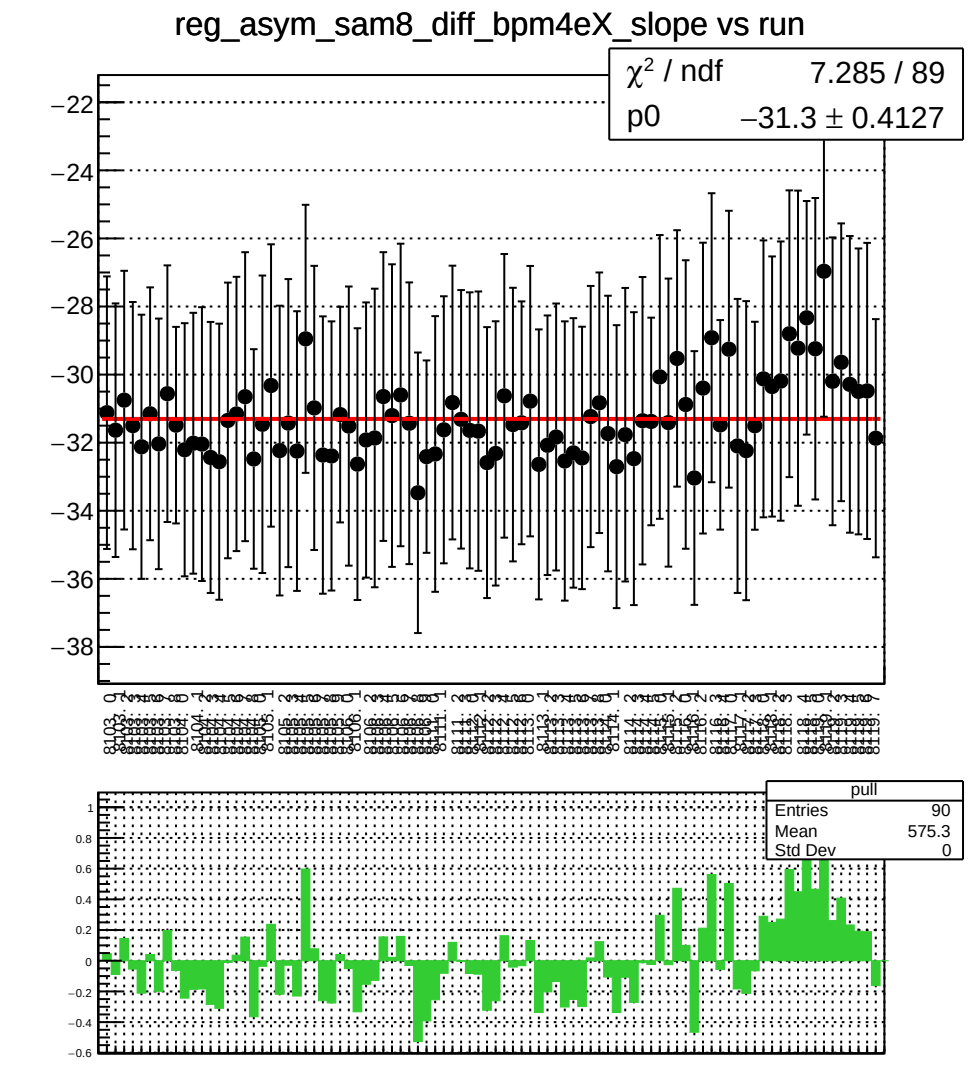

pull1D
Entries 90
Mean 0.002278
Std Dev 0.2754

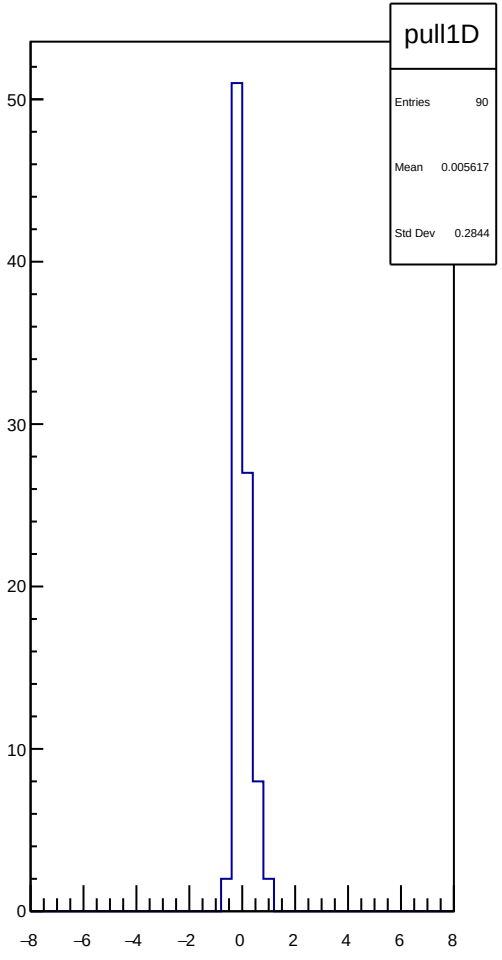

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 7.132 / 89
p0 11.07 ± 0.434
pull
Entries 90
Mean 562.6
Std Dev 0

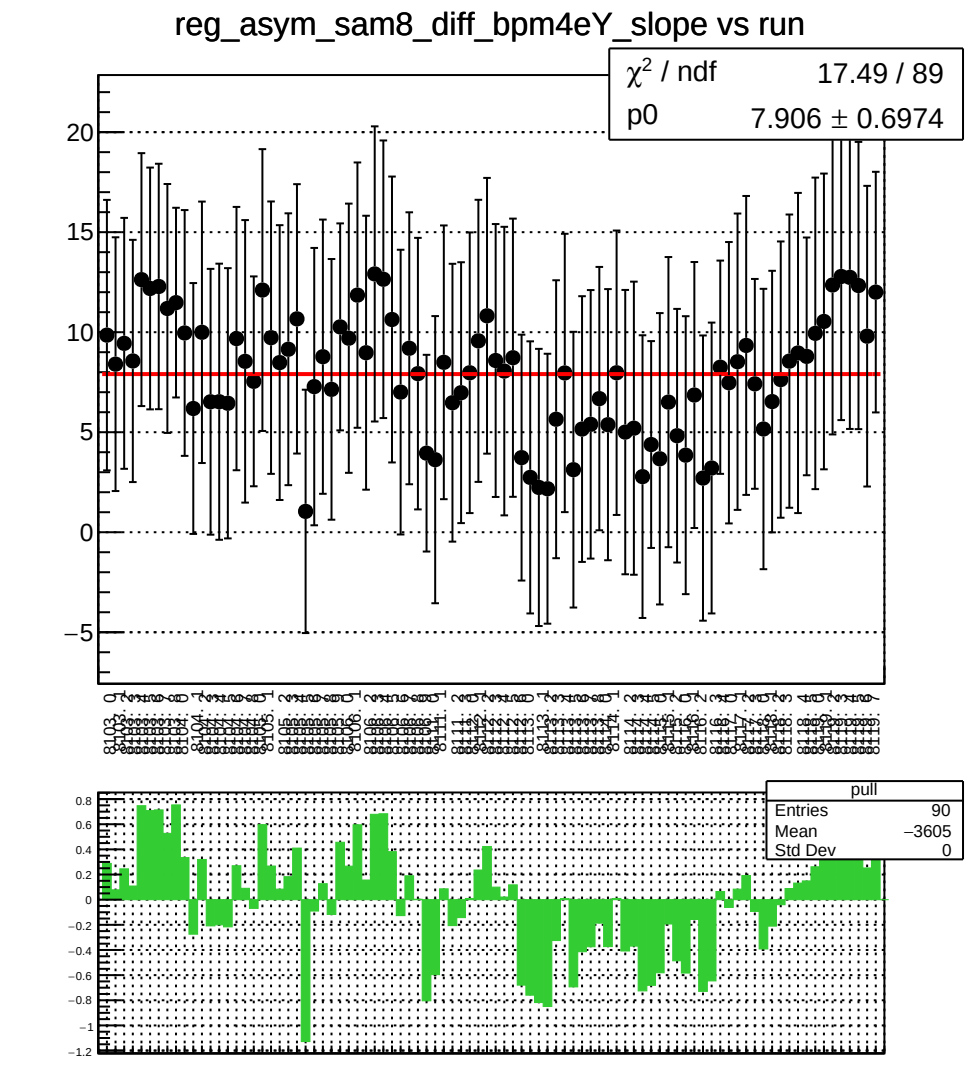

pull1D
Entries 90
Mean −0.006578
Std Dev 0.2814

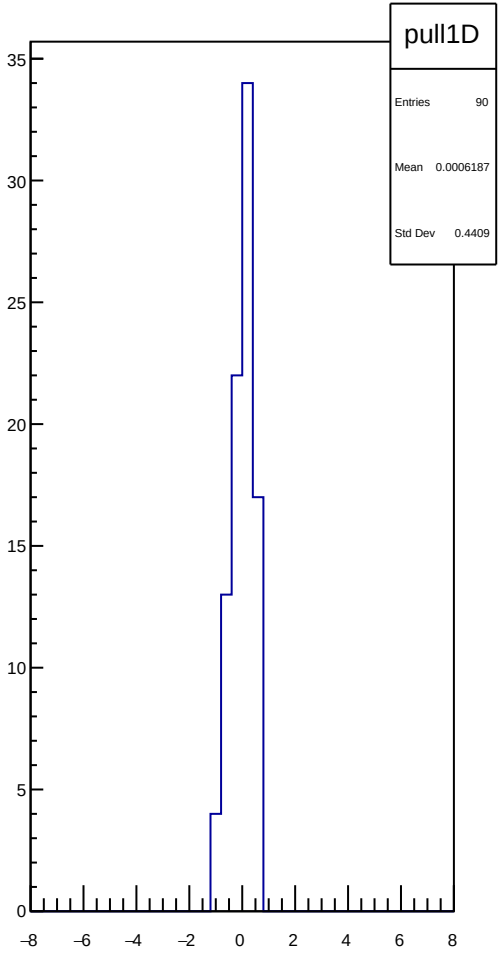

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 20.97 / 89
p0 −12.47 ± 0.6522
pull
Entries 90
Mean 1341
Std Dev 0

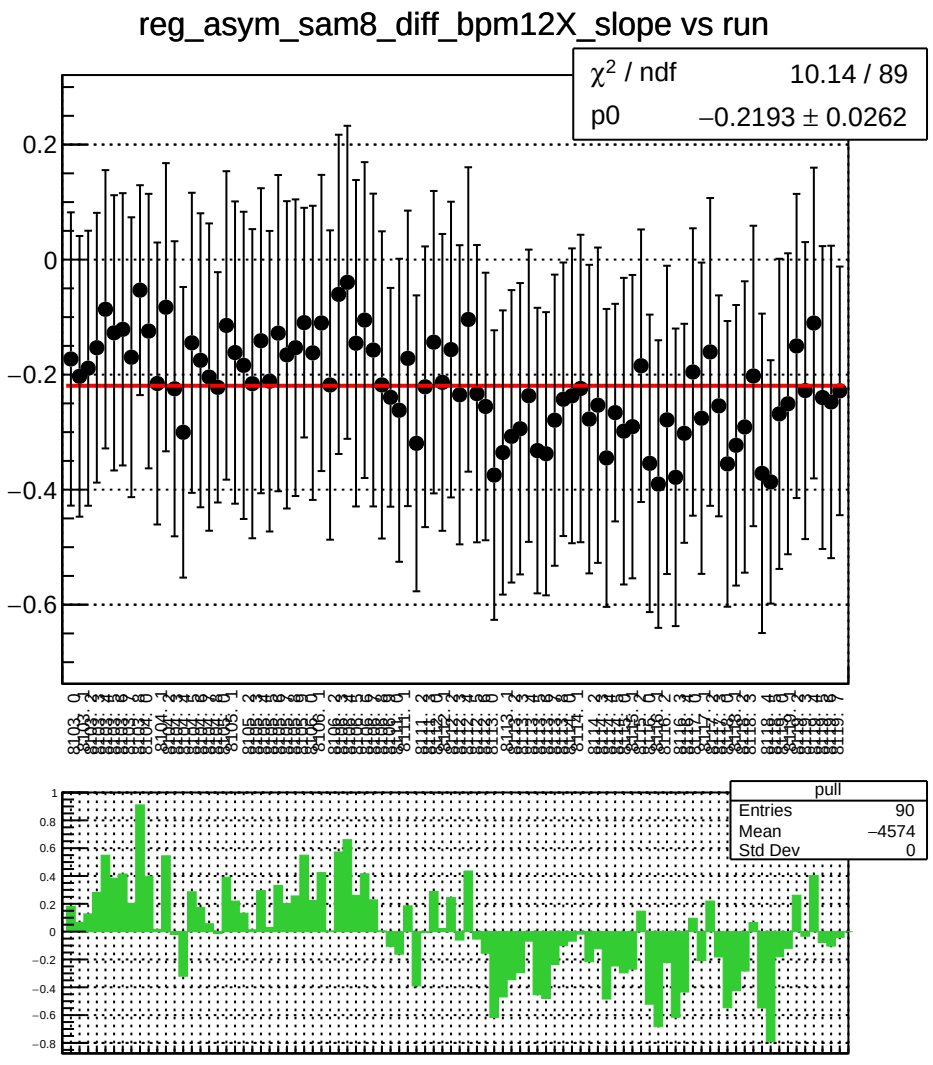

pull1D
Entries 90
Mean 0.003818
Std Dev 0.4827

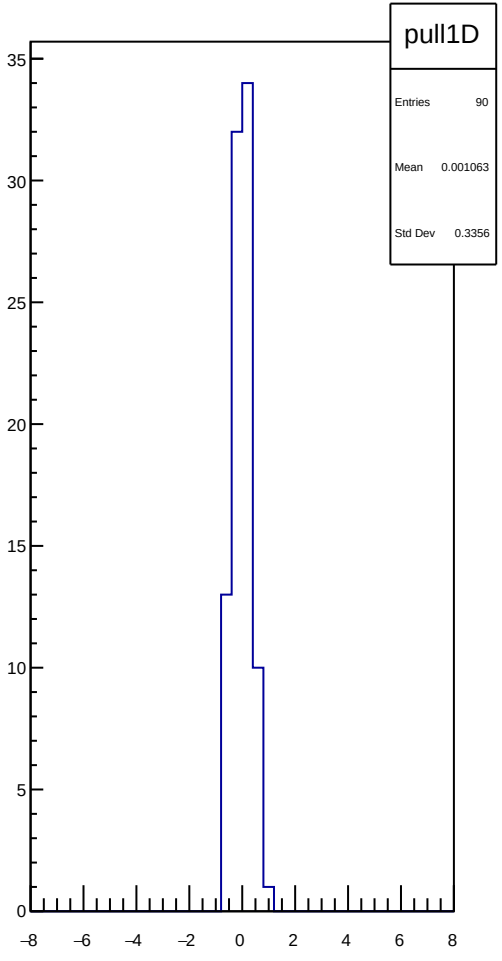

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 7.285 / 89
p0 −31.3 ± 0.4127
pull
Entries 90
Mean 575.3
Std Dev 0

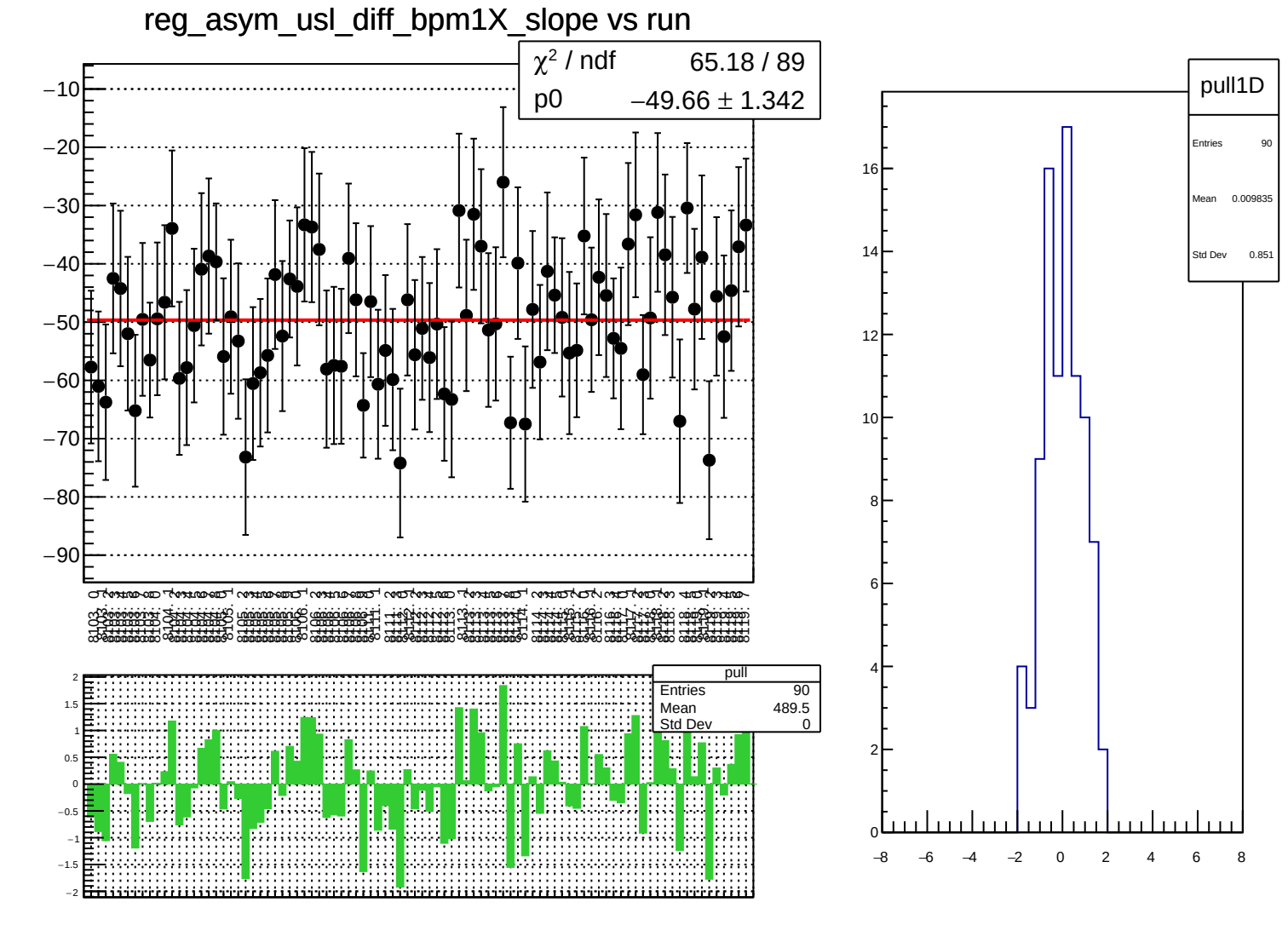

pull1D
Entries 90
Mean 0.005617
Std Dev 0.2844

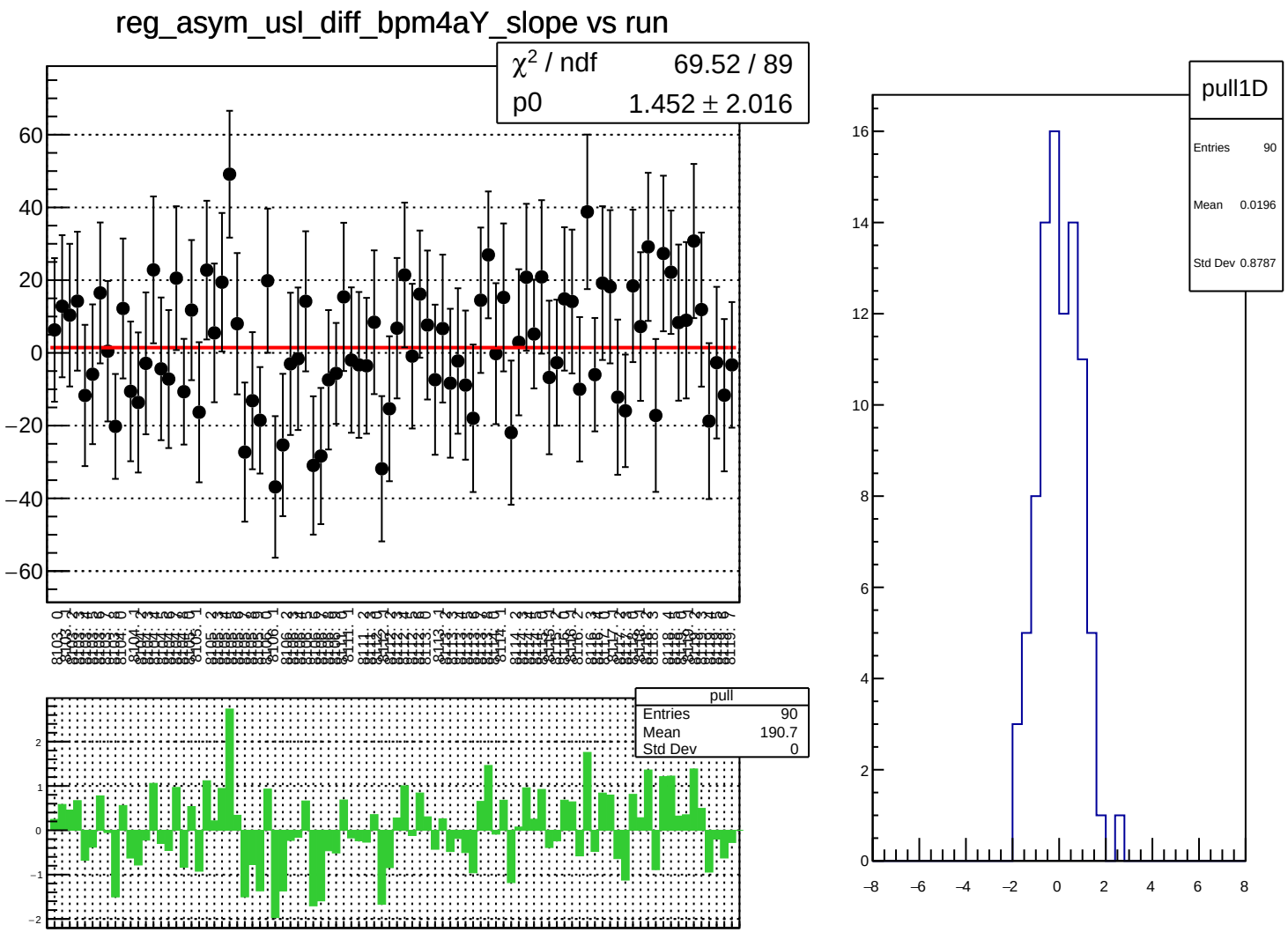

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 17.49 / 89
p0 7.906 ± 0.6974
pull
Entries 90
Mean −3605
Std Dev 0

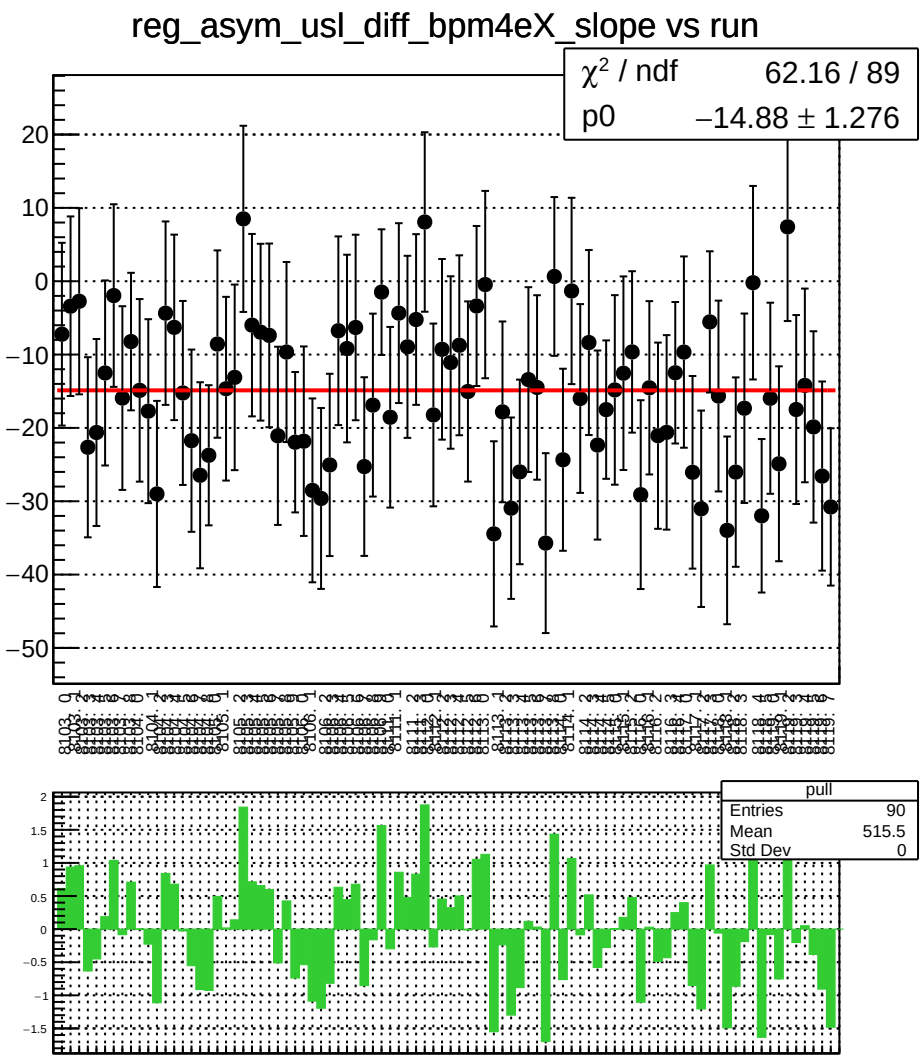

pull1D
Entries 90
Mean 0.0006187
Std Dev 0.4409

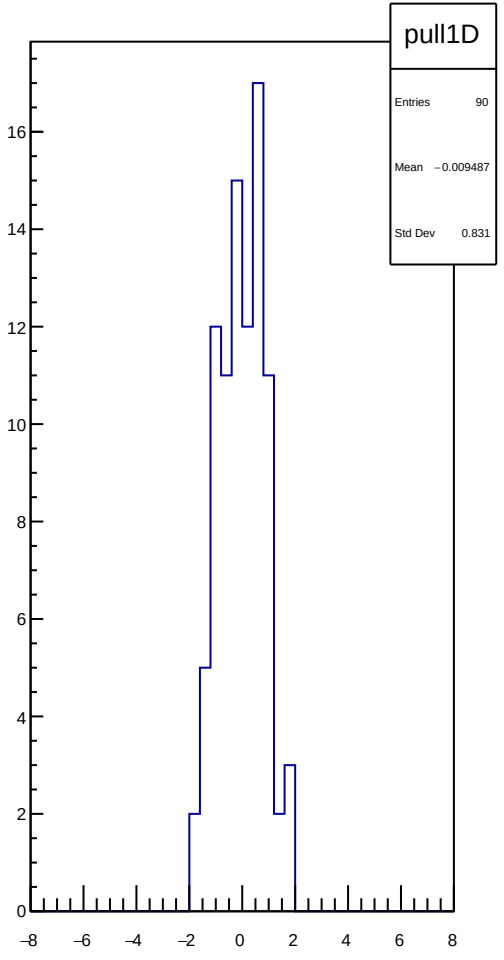

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 10.14 / 89
p0 −0.2193 ± 0.0262
pull
Entries 90
Mean −4574
Std Dev 0

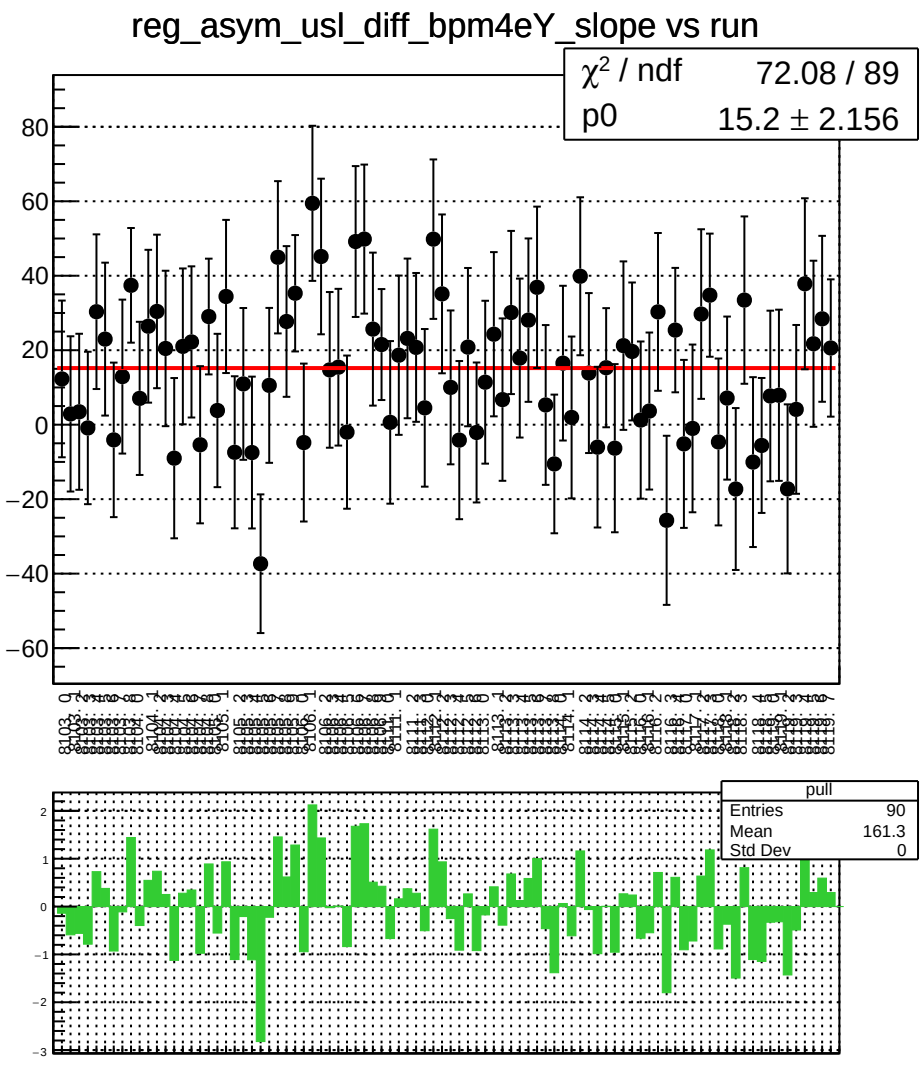

pull1D
Entries 90
Mean 0.001063
Std Dev 0.3356

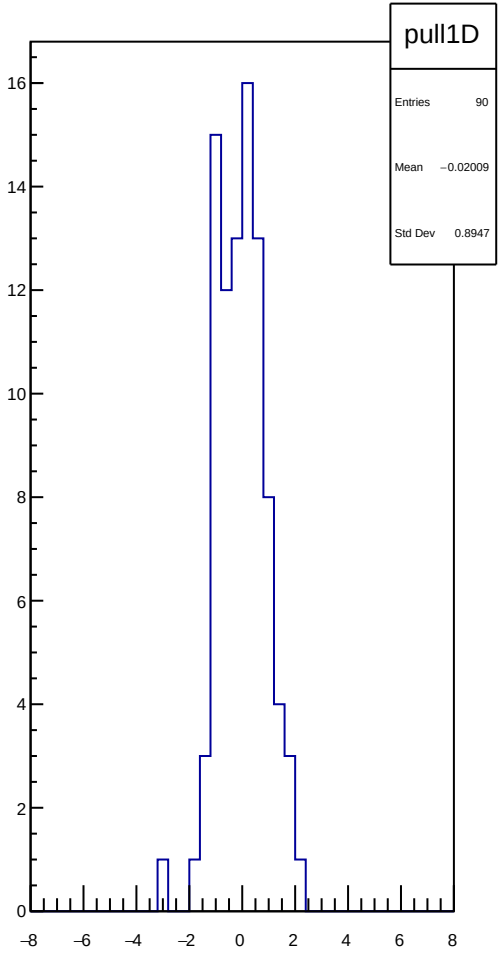

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 65.18 / 89
p0 −49.66 ± 1.342
pull
Entries 90
Mean 489.5
Std Dev 0
pull1D
Entries 90
Mean 0.009835
Std Dev 0.851

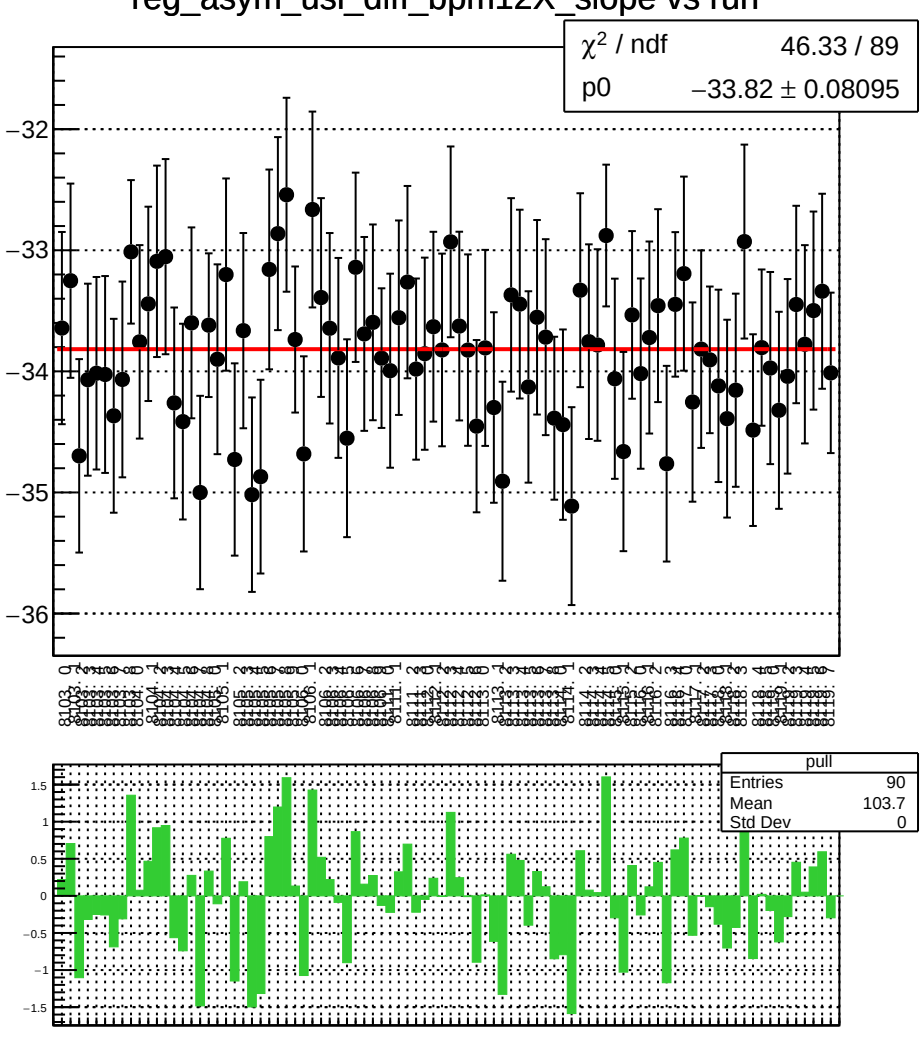

reg_asym_usl_diff_bpm4aY_slope vs run
χ^2 / ndf 69.52 / 89
p0 1.452 ± 2.016
pull
Entries 90
Mean 190.7
Std Dev 0
pull1D
Entries 90
Mean 0.0196
Std Dev 0.8787

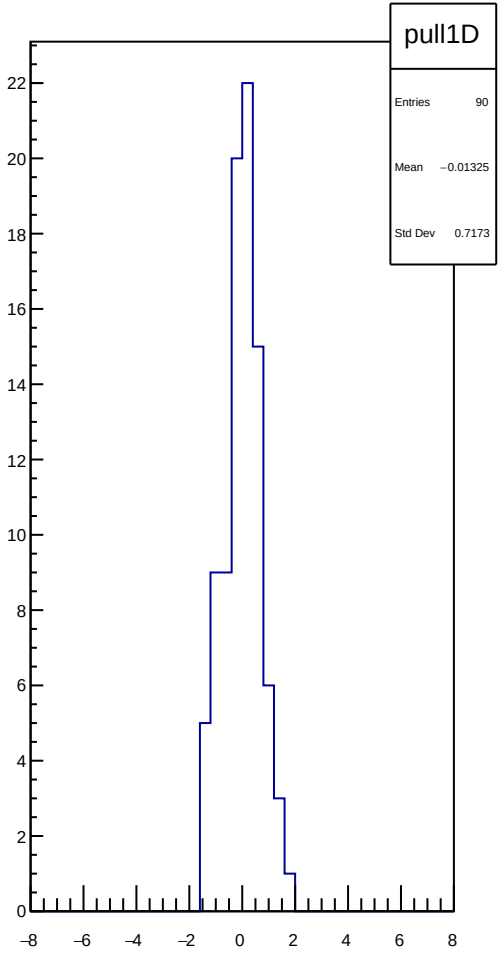

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 62.16 / 89
p0 −14.88 ± 1.276
pull
Entries 90
Mean 515.5
Std Dev 0

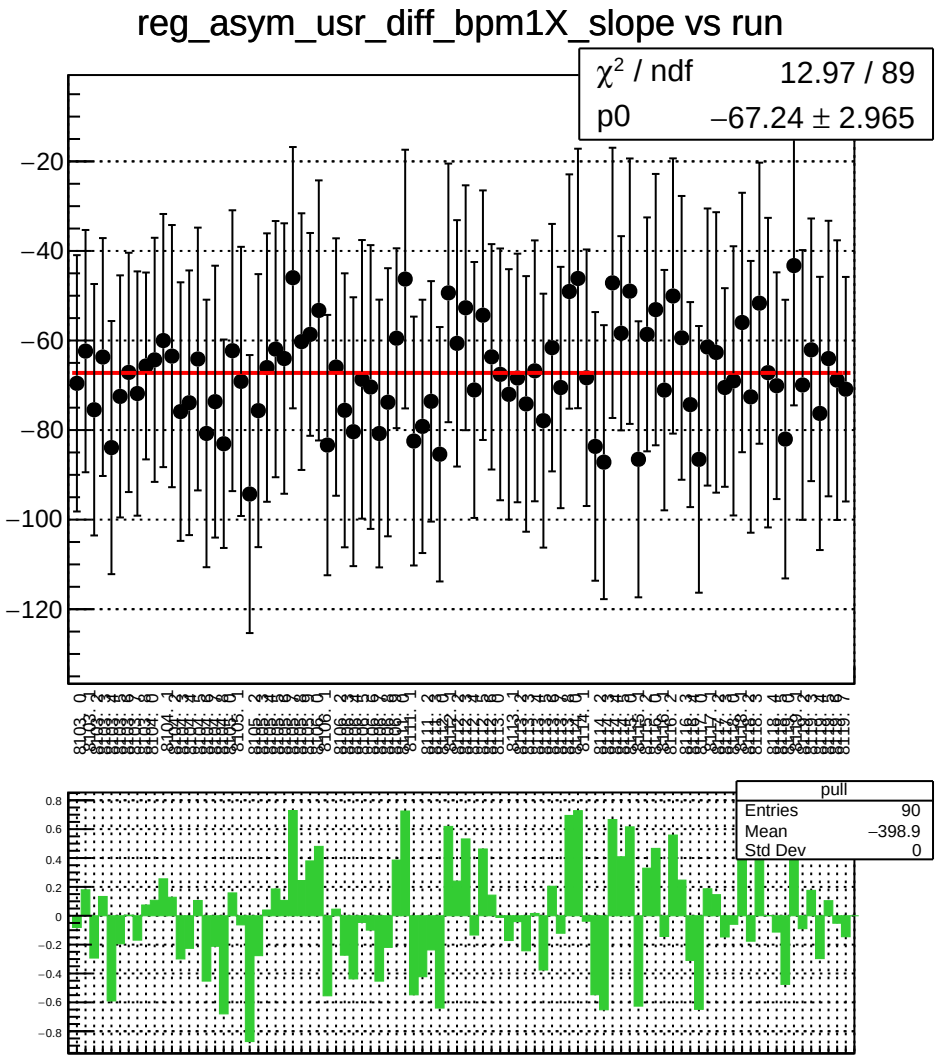

pull1D
Entries 90
Mean −0.009487
Std Dev 0.831

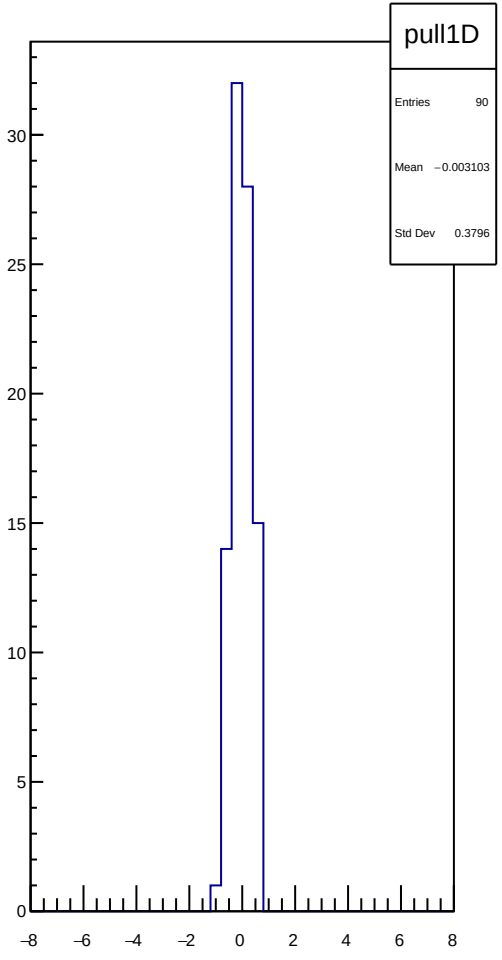

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 72.08 / 89
p0 15.2 ± 2.156
pull
Entries 90
Mean 161.3
Std Dev 0

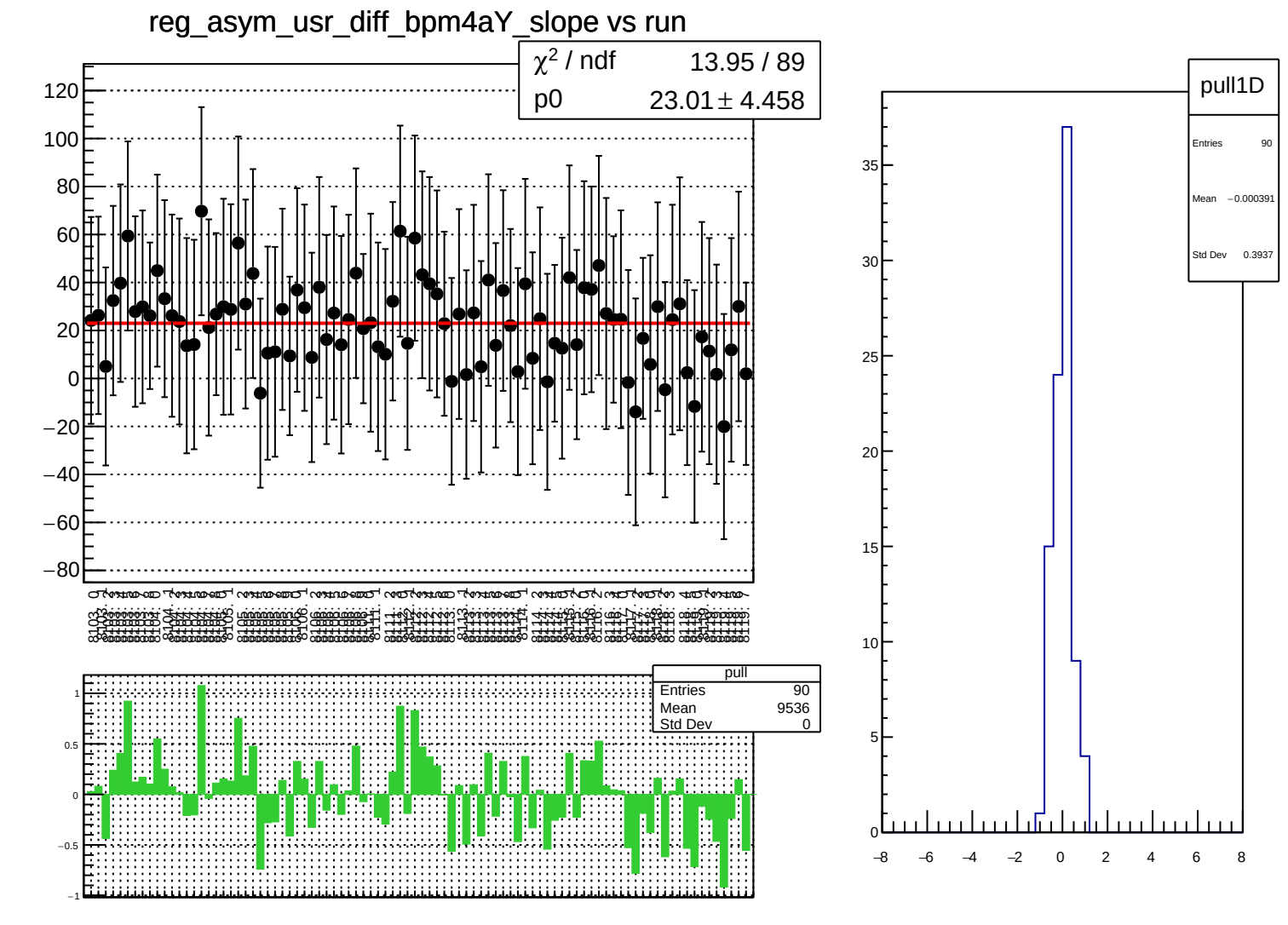

pull1D
Entries 90
Mean −0.02009
Std Dev 0.8947

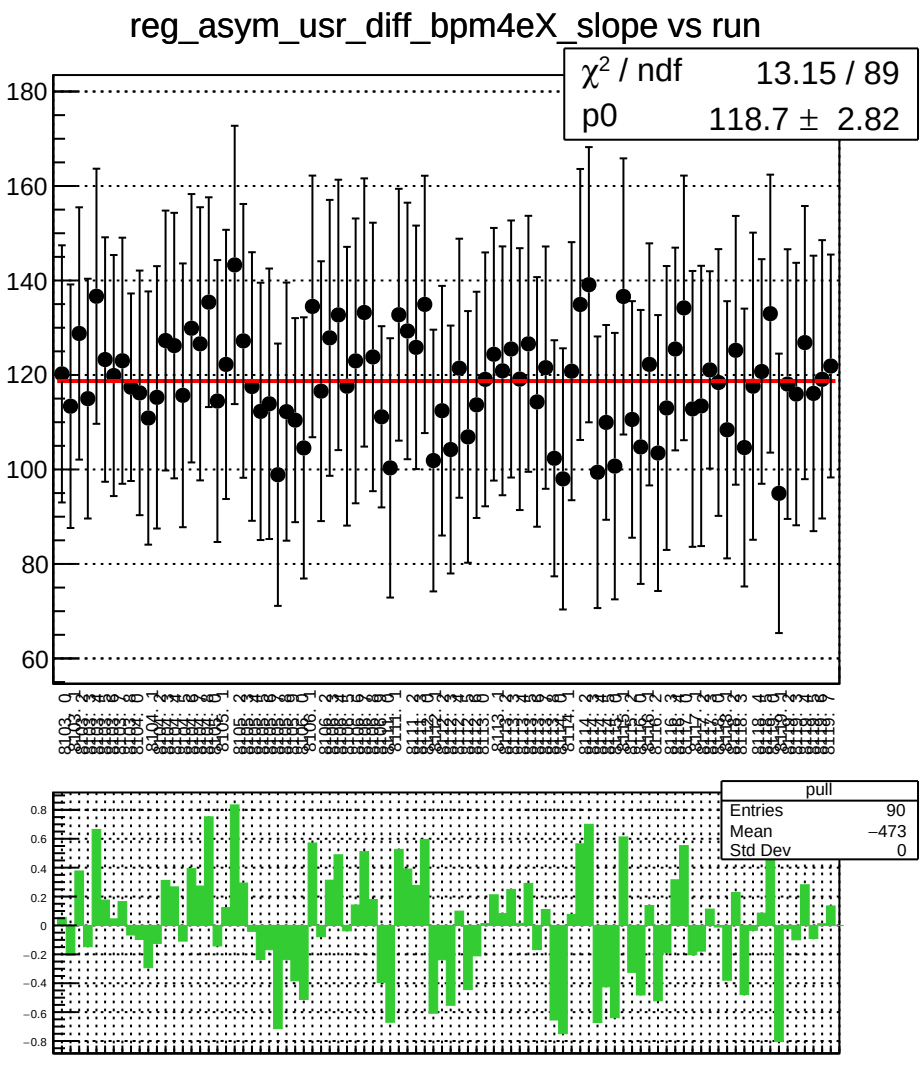

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 46.33 / 89
p0 −33.82 ± 0.08095
pull
Entries 90
Mean 103.7
Std Dev 0

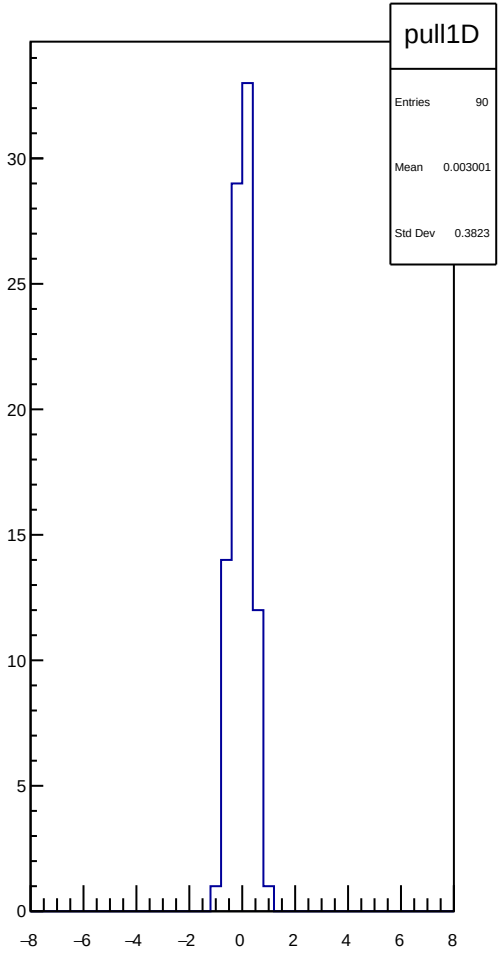

pull1D
Entries 90
Mean −0.01325
Std Dev 0.7173

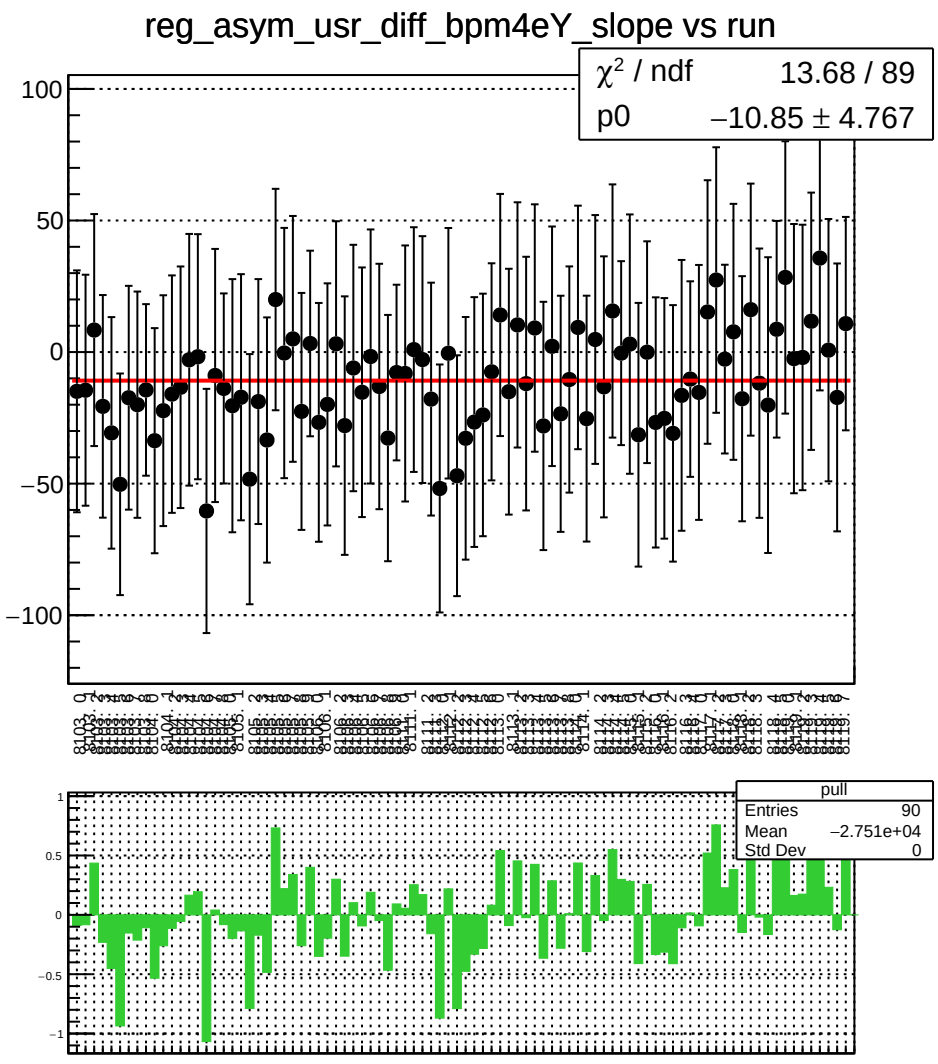

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 12.97 / 89
p0 −67.24 ± 2.965
pull
Entries 90
Mean −398.9
Std Dev 0

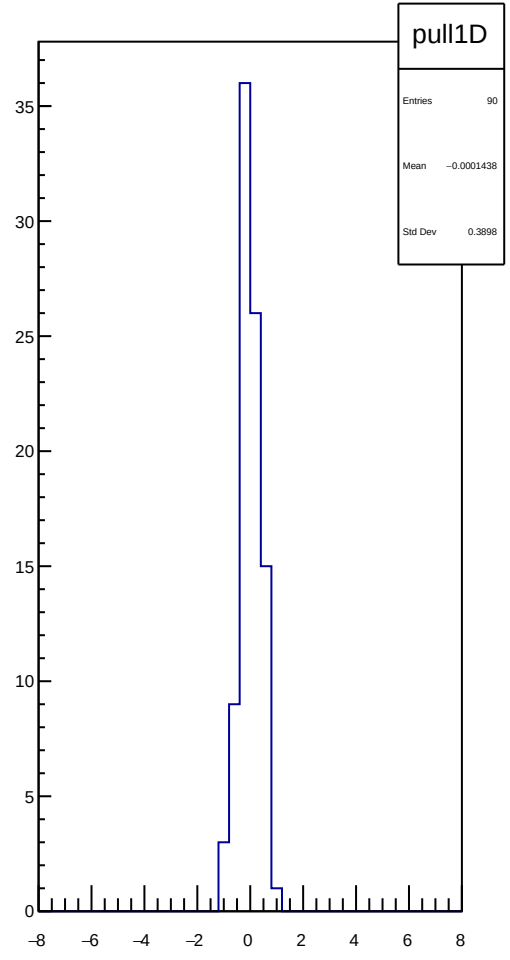

pull1D
Entries 90
Mean −0.003103
Std Dev 0.3796

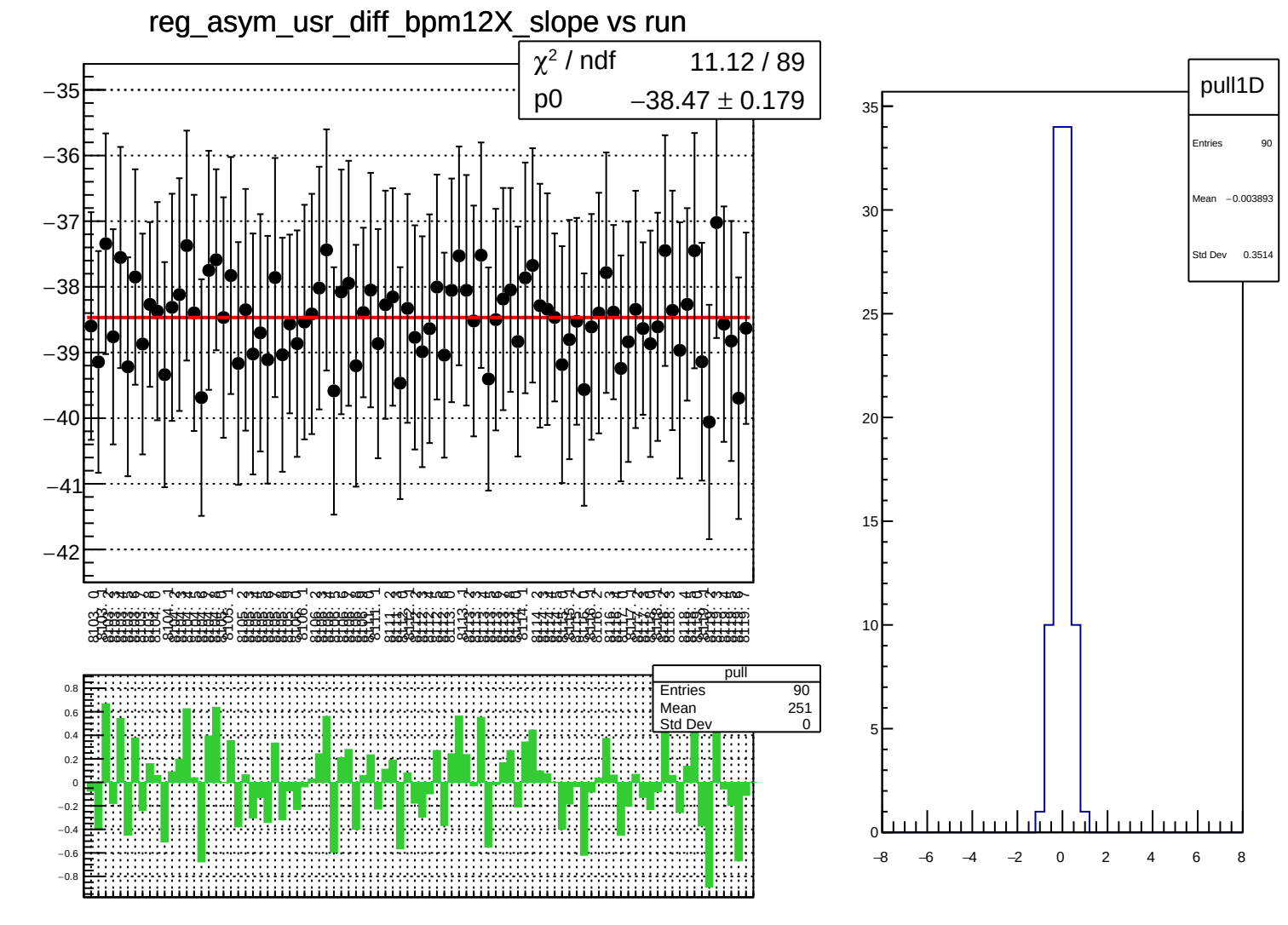

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 13.95 / 89
p0 23.01 ± 4.458
pull
Entries 90
Mean 9536
Std Dev 0
pull1D
Entries 90
Mean −0.000391
Std Dev 0.3937

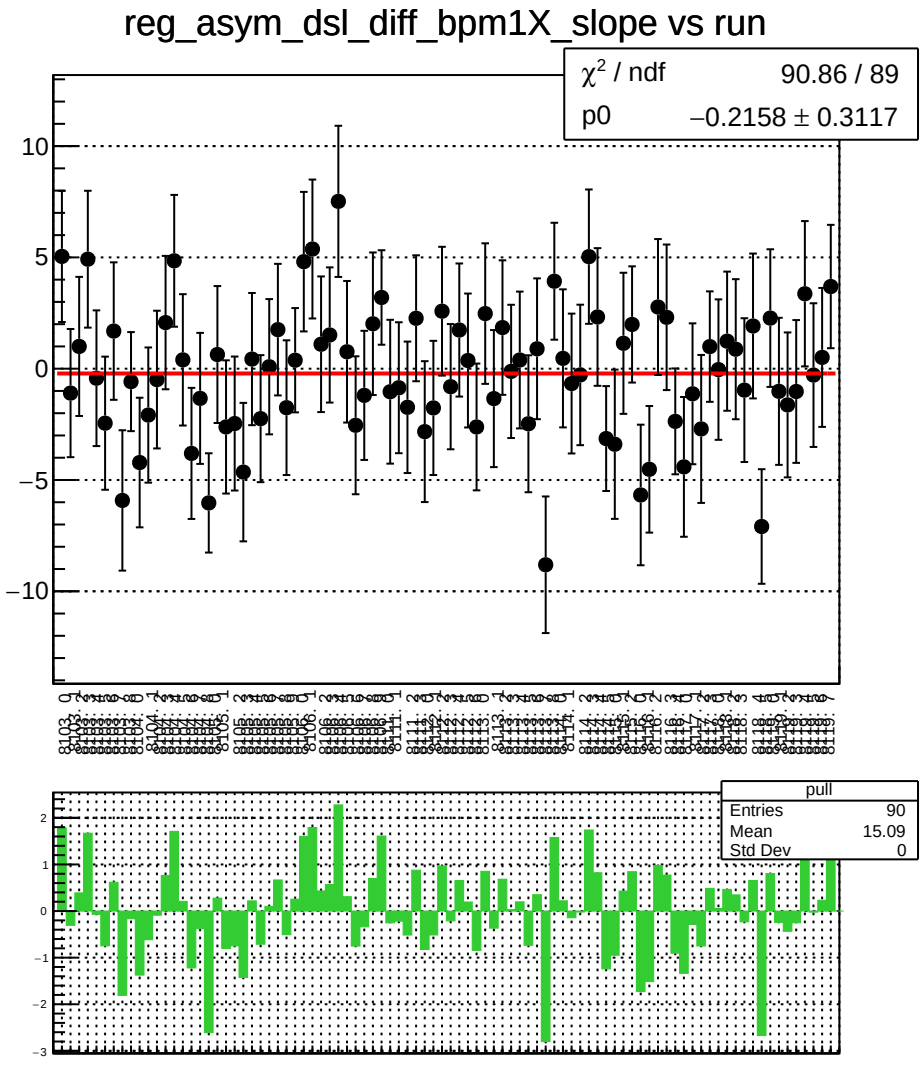

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 13.15 / 89
p0 118.7 ± 2.82
pull
Entries 90
Mean −473
Std Dev 0

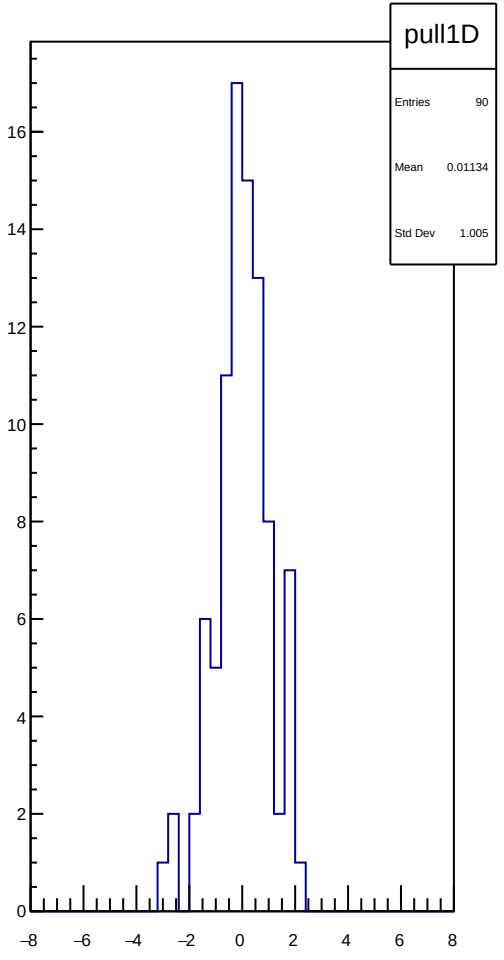

pull1D
Entries 90
Mean 0.003001
Std Dev 0.3823

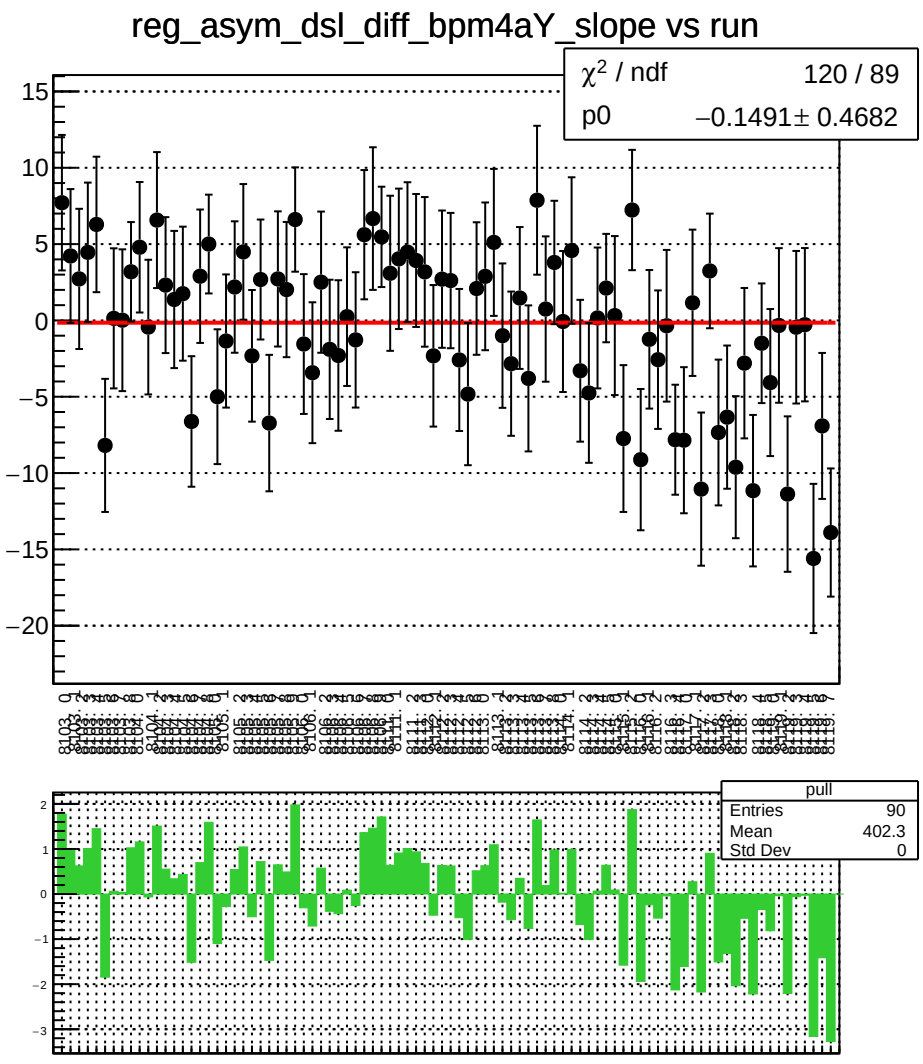

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 13.68 / 89
p0 −10.85 ± 4.767
100
50
0
−50
−100
pull
Entries 90
Mean −2.751e+04
Std Dev 0
1
0.5
0
−0.5
−1

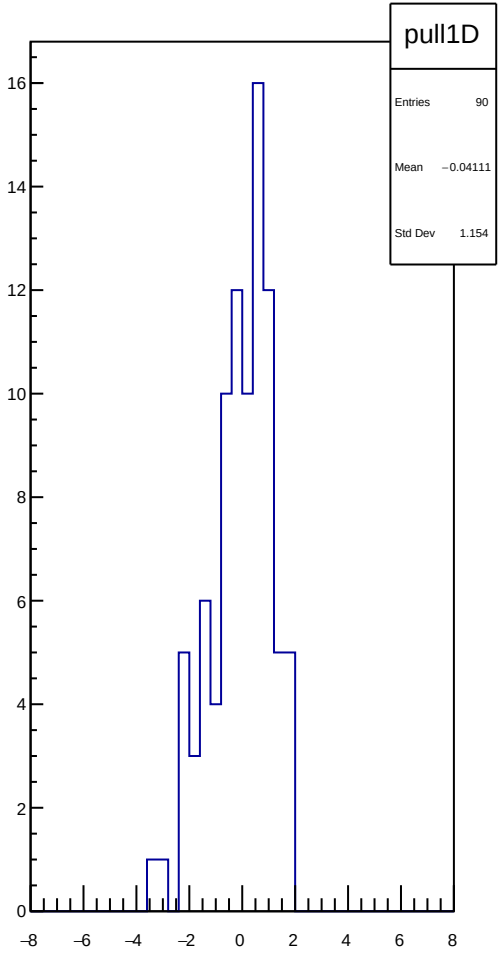

pull1D
Entries 90
Mean −0.0001438
Std Dev 0.3898
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

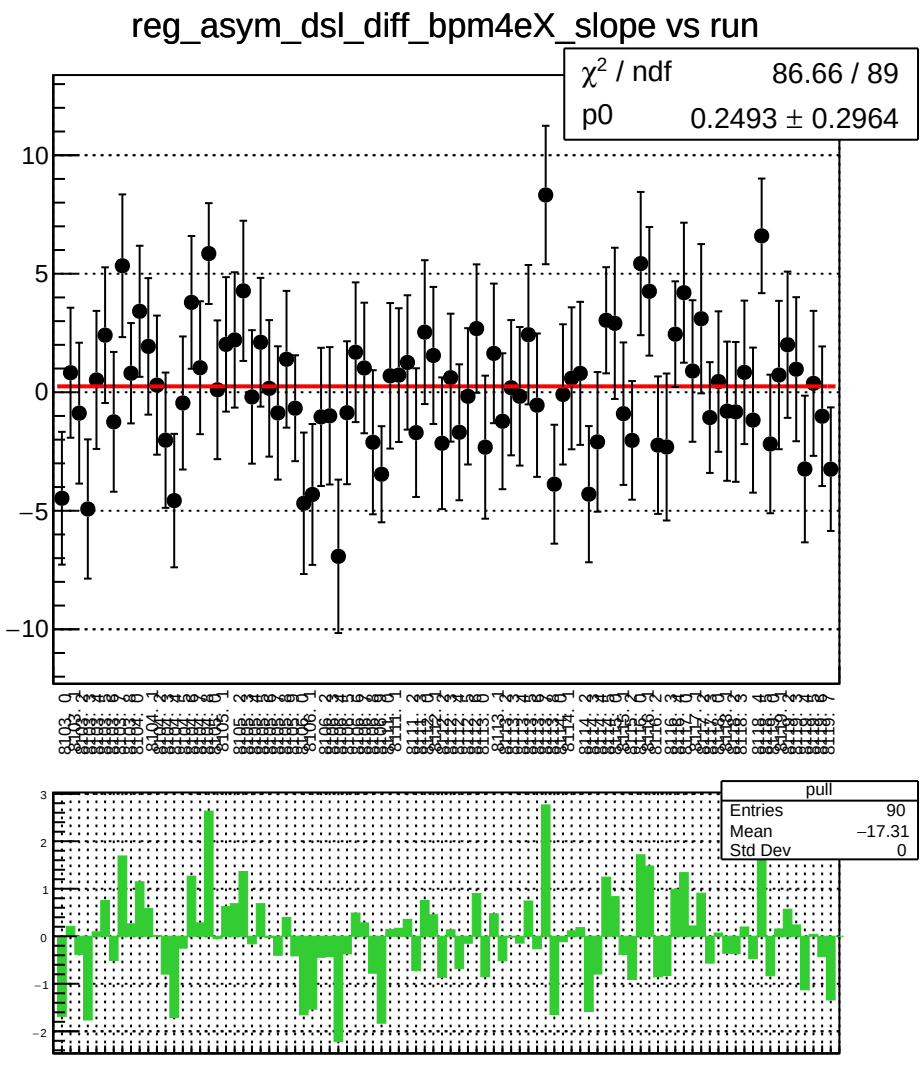

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 11.12 / 89
p0 −38.47 ± 0.179
pull
Entries 90
Mean 251
Std Dev 0
pull1D
Entries 90
Mean −0.003893
Std Dev 0.3514

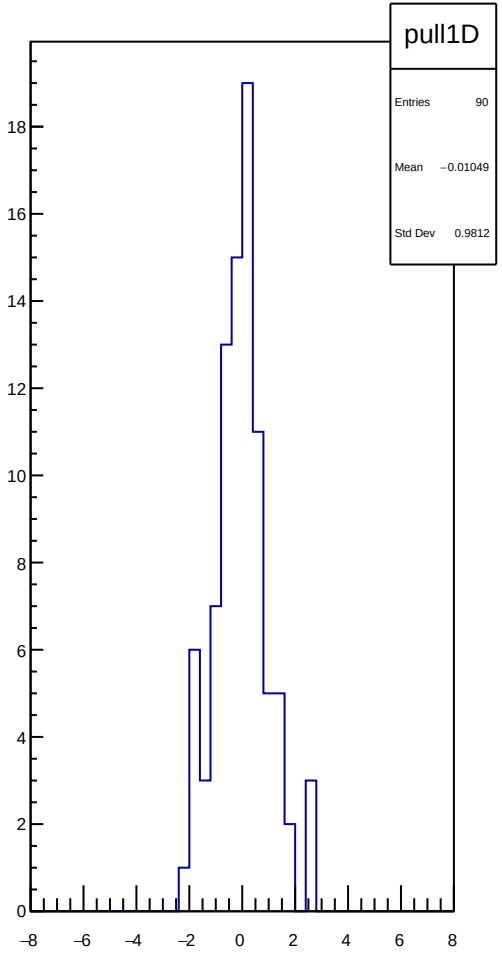

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 90.86 / 89
p0 −0.2158 ± 0.3117
pull
Entries 90
Mean 15.09
Std Dev 0

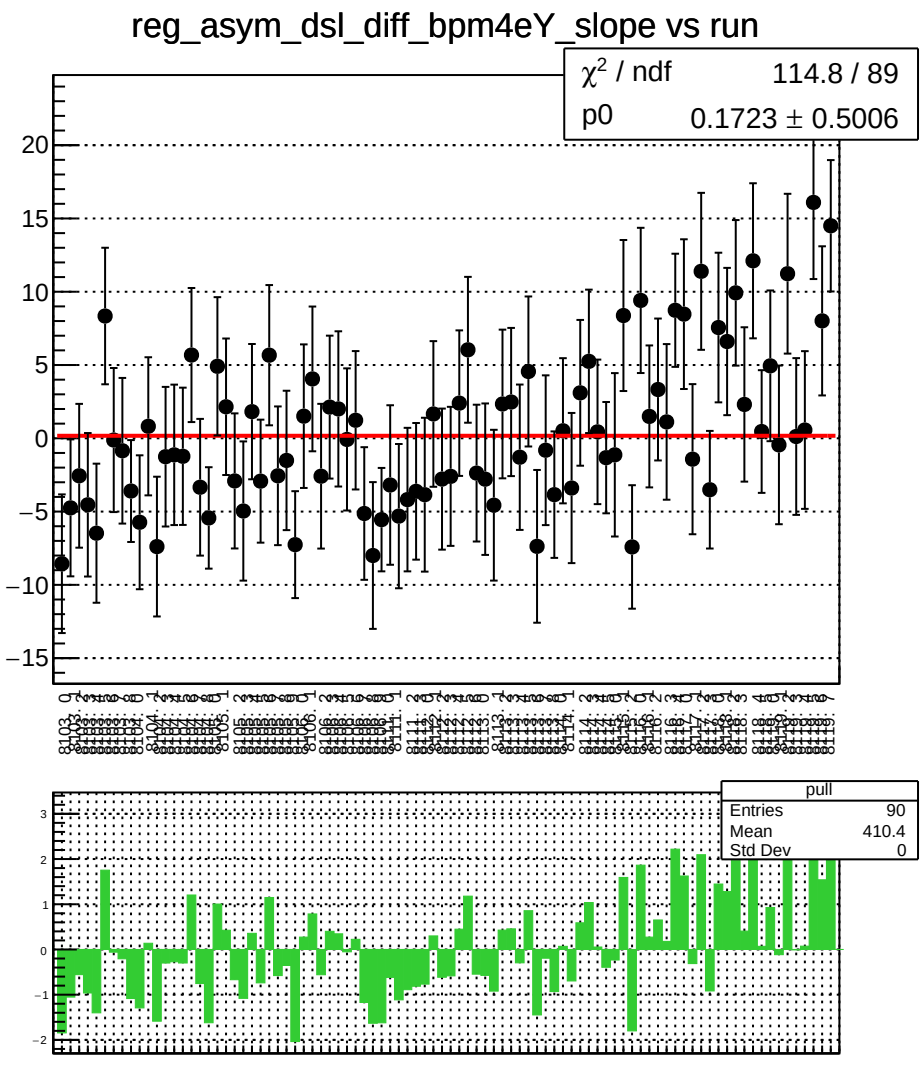

pull1D
Entries 90
Mean 0.01134
Std Dev 1.005

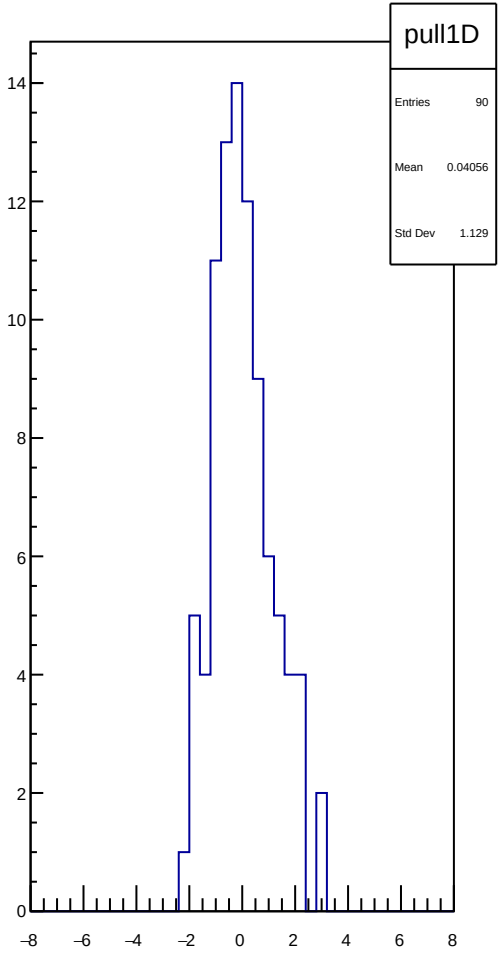

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 120 / 89
p0 −0.1491± 0.4682
pull
Entries 90
Mean 402.3
Std Dev 0

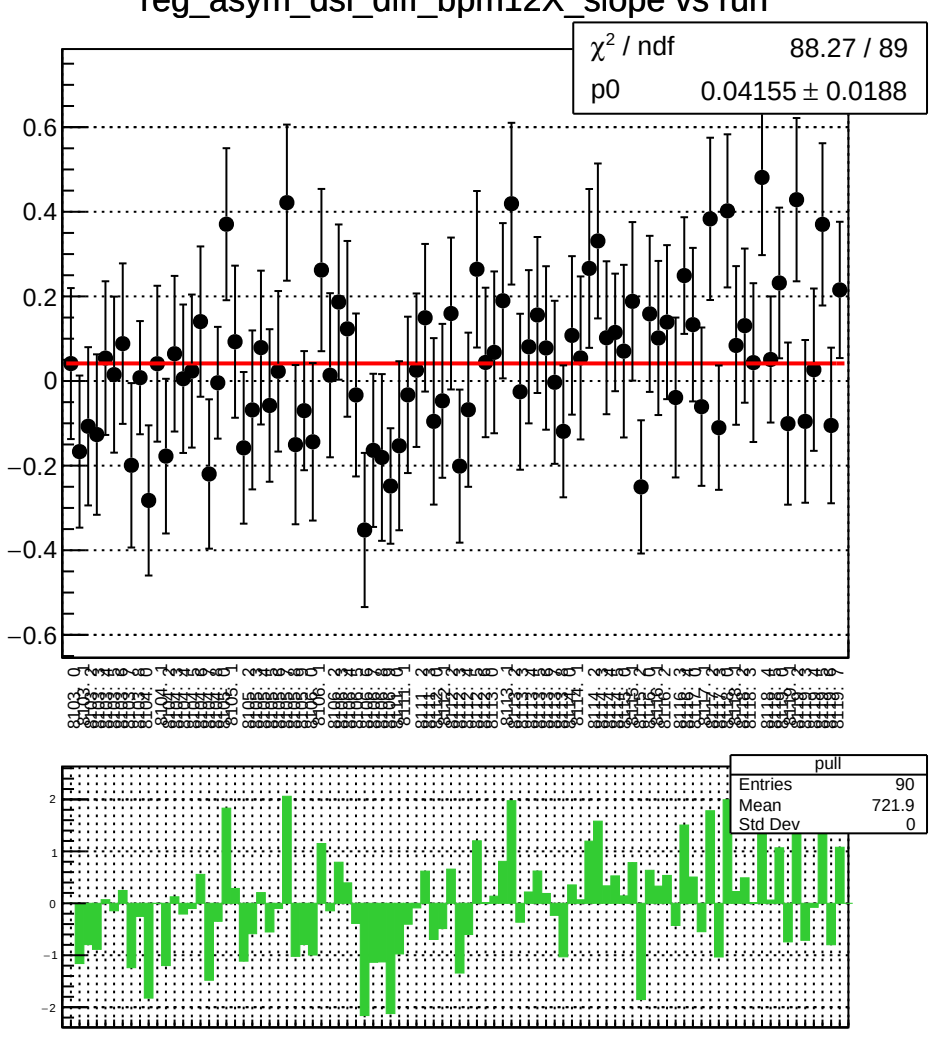

pull1D
Entries 90
Mean −0.04111
Std Dev 1.154

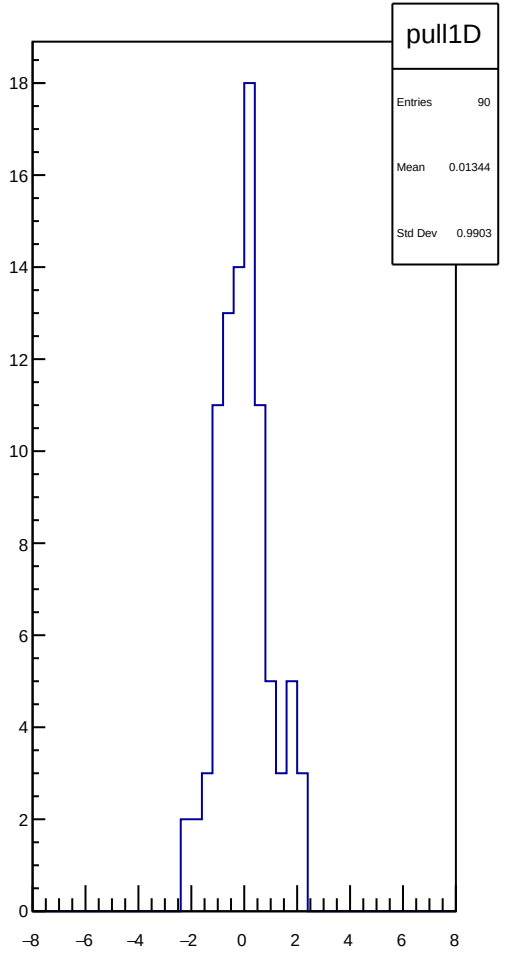

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 86.66 / 89
p0 0.2493 ± 0.2964
pull
Entries 90
Mean −17.31
Std Dev 0

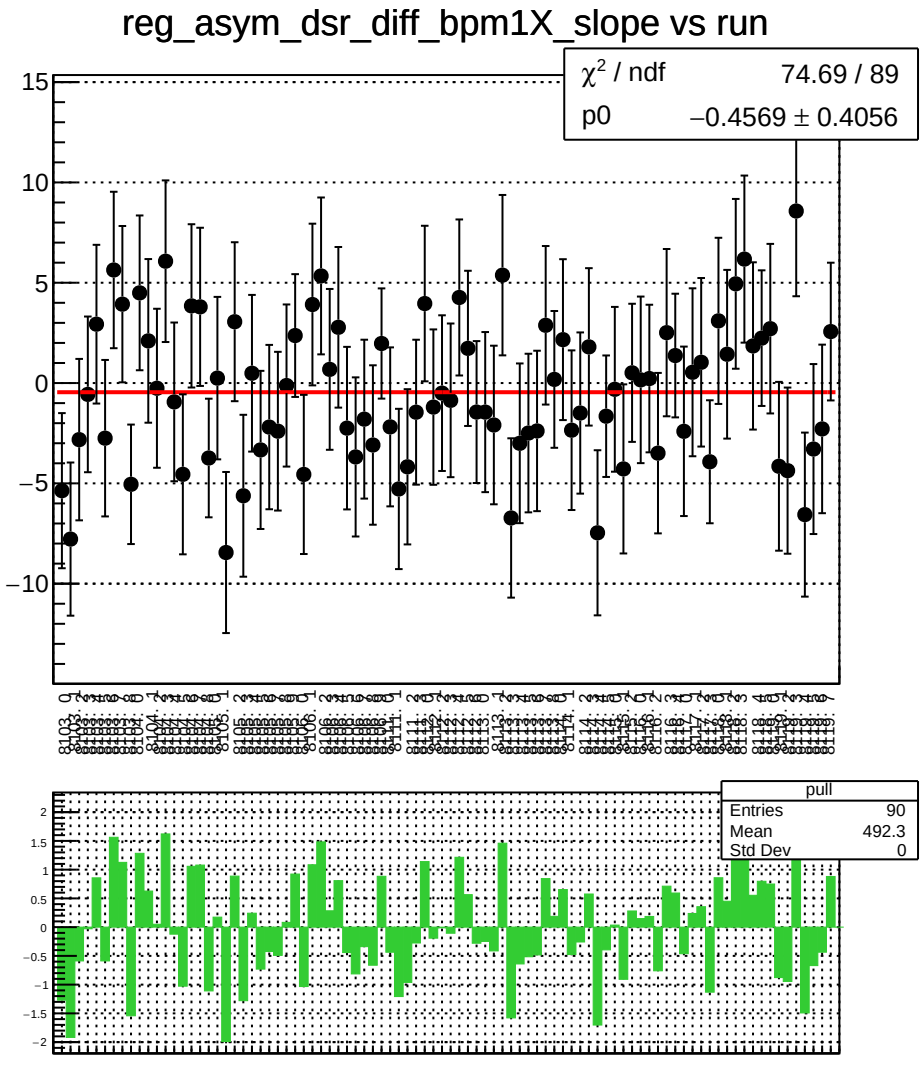

pull1D
Entries 90
Mean −0.01049
Std Dev 0.9812

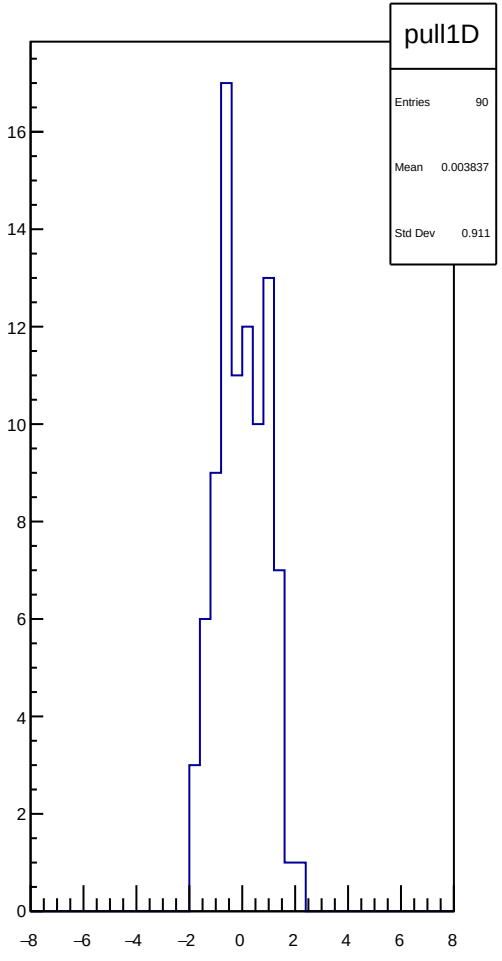

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 114.8 / 89
p0 0.1723 ± 0.5006
pull
Entries 90
Mean 410.4
Std Dev 0

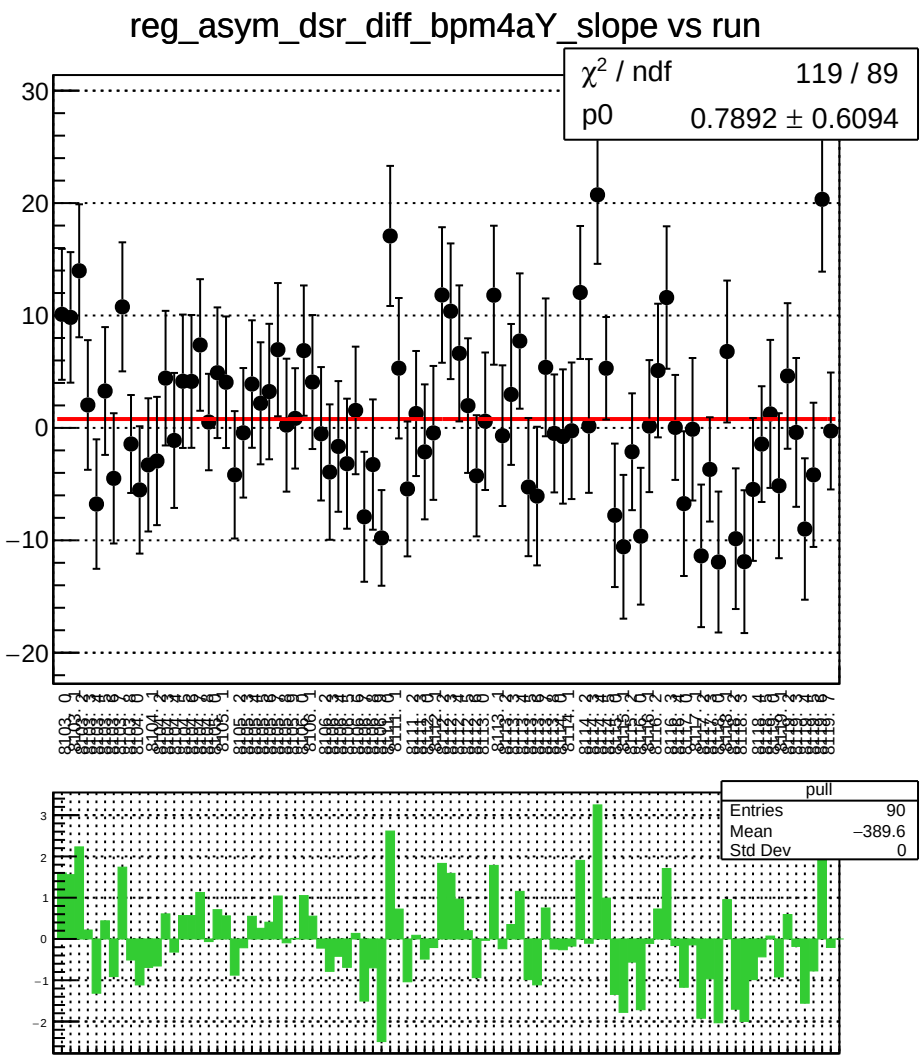

pull1D
Entries 90
Mean 0.04056
Std Dev 1.129

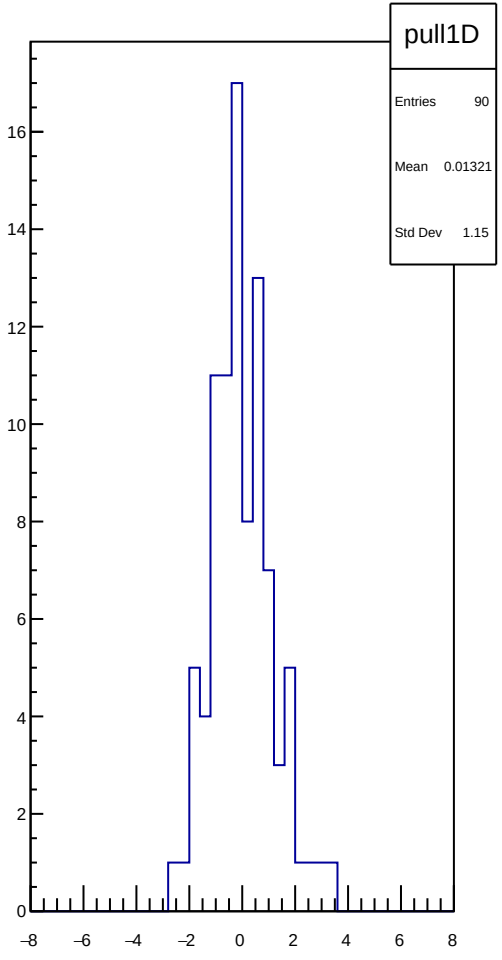

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 88.27 / 89
p0 0.04155 ± 0.0188
pull
Entries 90
Mean 721.9
Std Dev 0

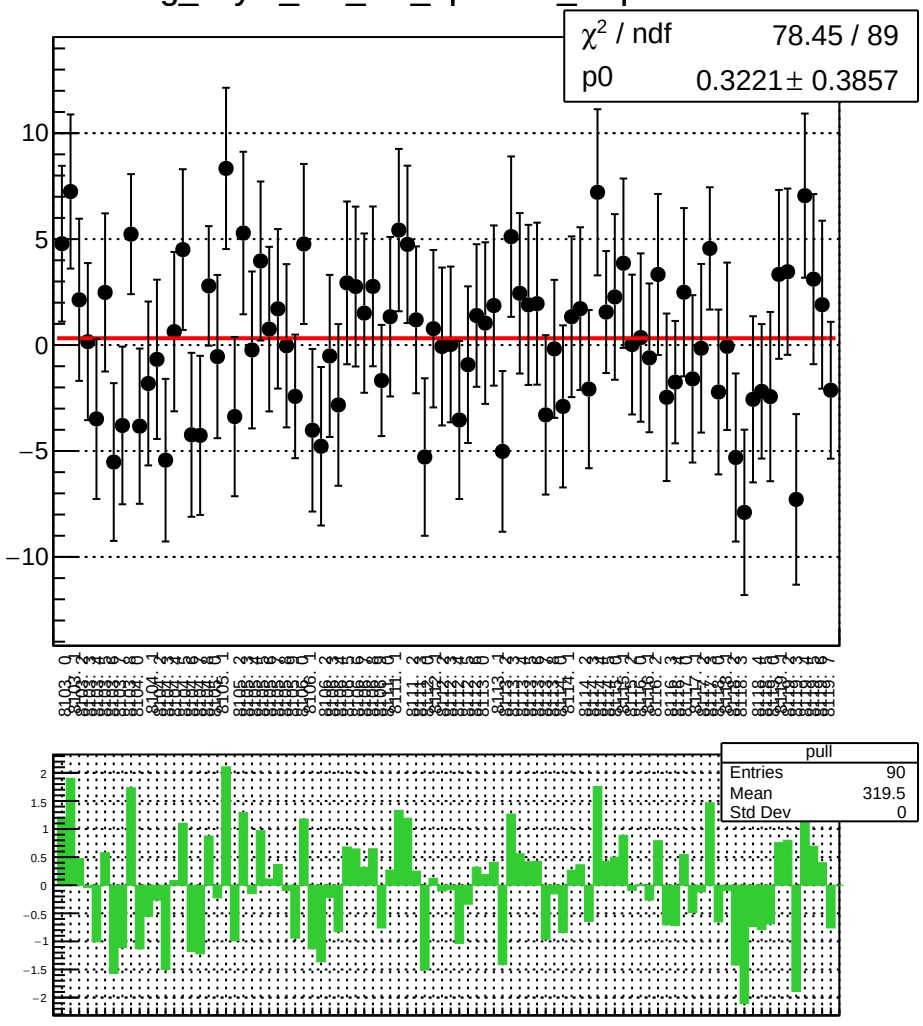

pull1D
Entries 90
Mean 0.01344
Std Dev 0.9903

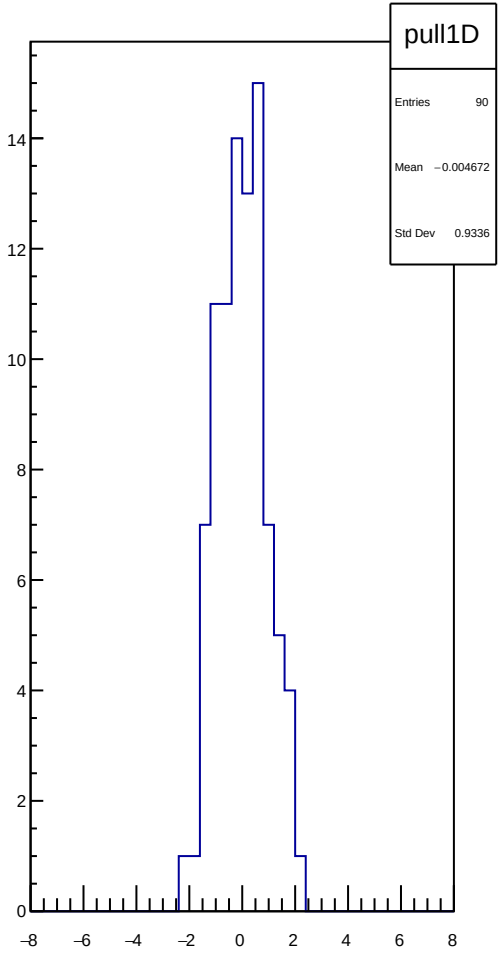

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 74.69 / 89
p0 −0.4569 ± 0.4056
pull
Entries 90
Mean 492.3
Std Dev 0

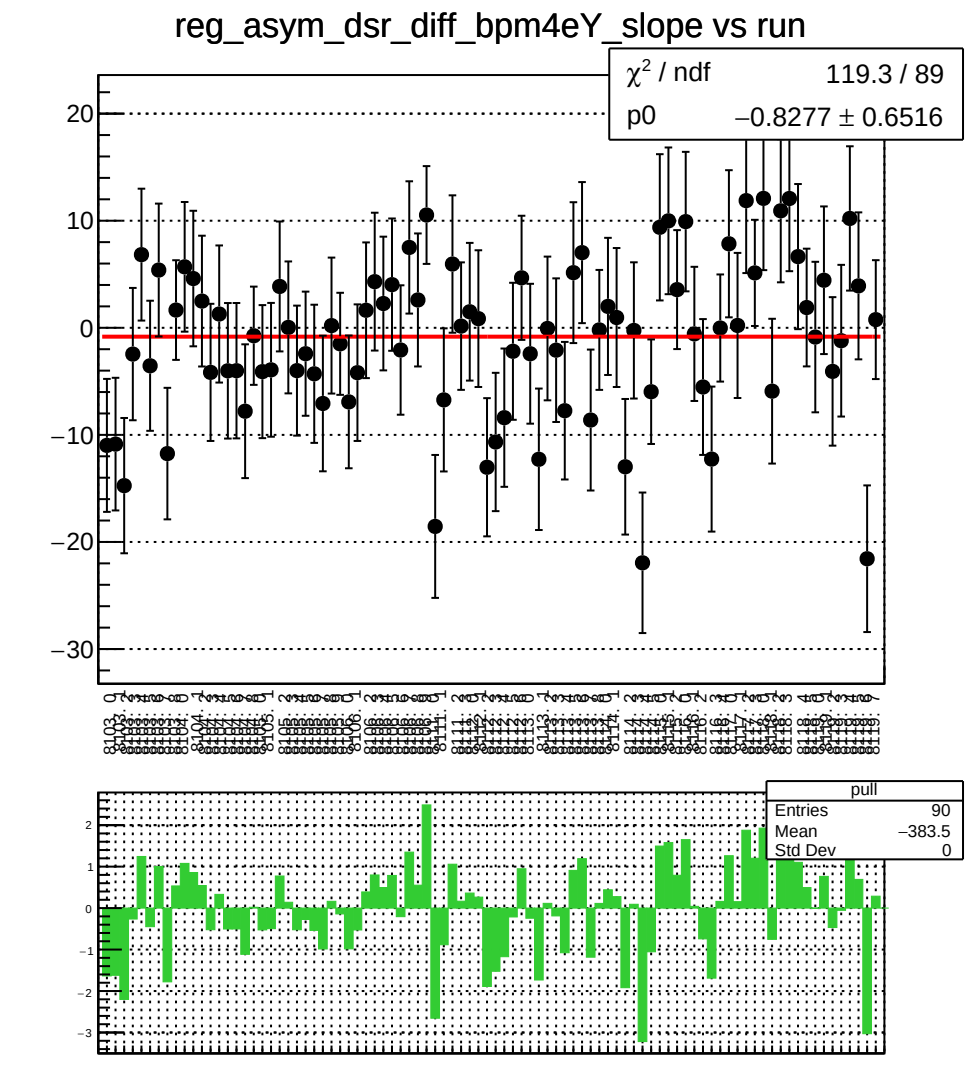

pull1D
Entries 90
Mean 0.003837
Std Dev 0.911

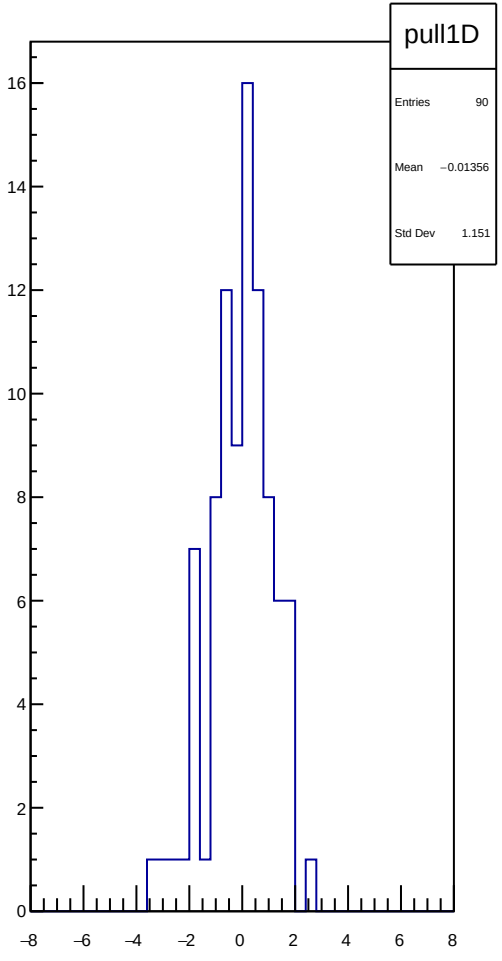

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 119 / 89
p0 0.7892 ± 0.6094
pull
Entries 90
Mean −389.6
Std Dev 0

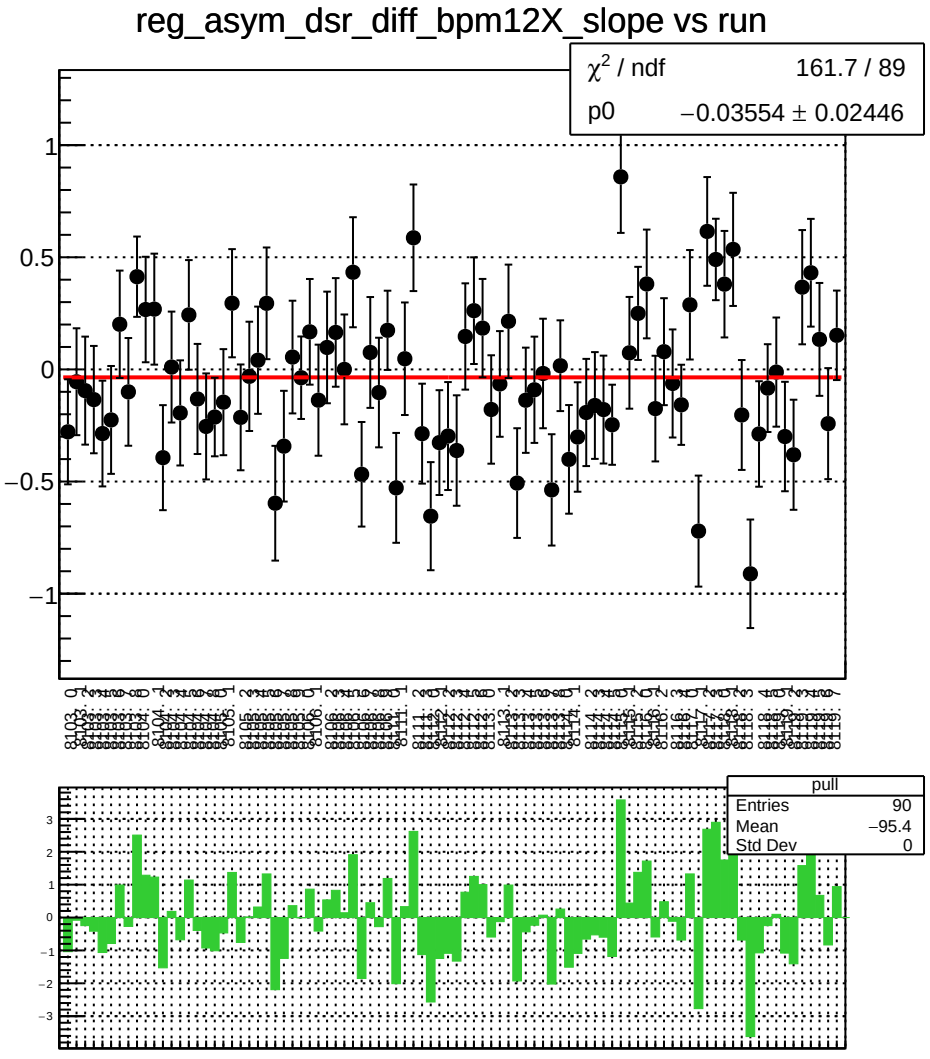

pull1D
Entries 90
Mean 0.01321
Std Dev 1.15

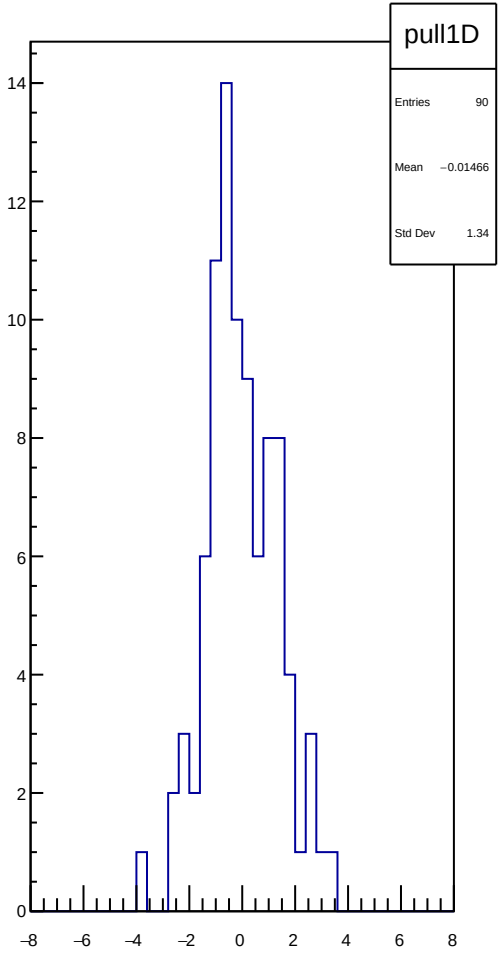

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 78.45 / 89
p0 0.3221 ± 0.3857
pull
Entries 90
Mean 319.5
Std Dev 0

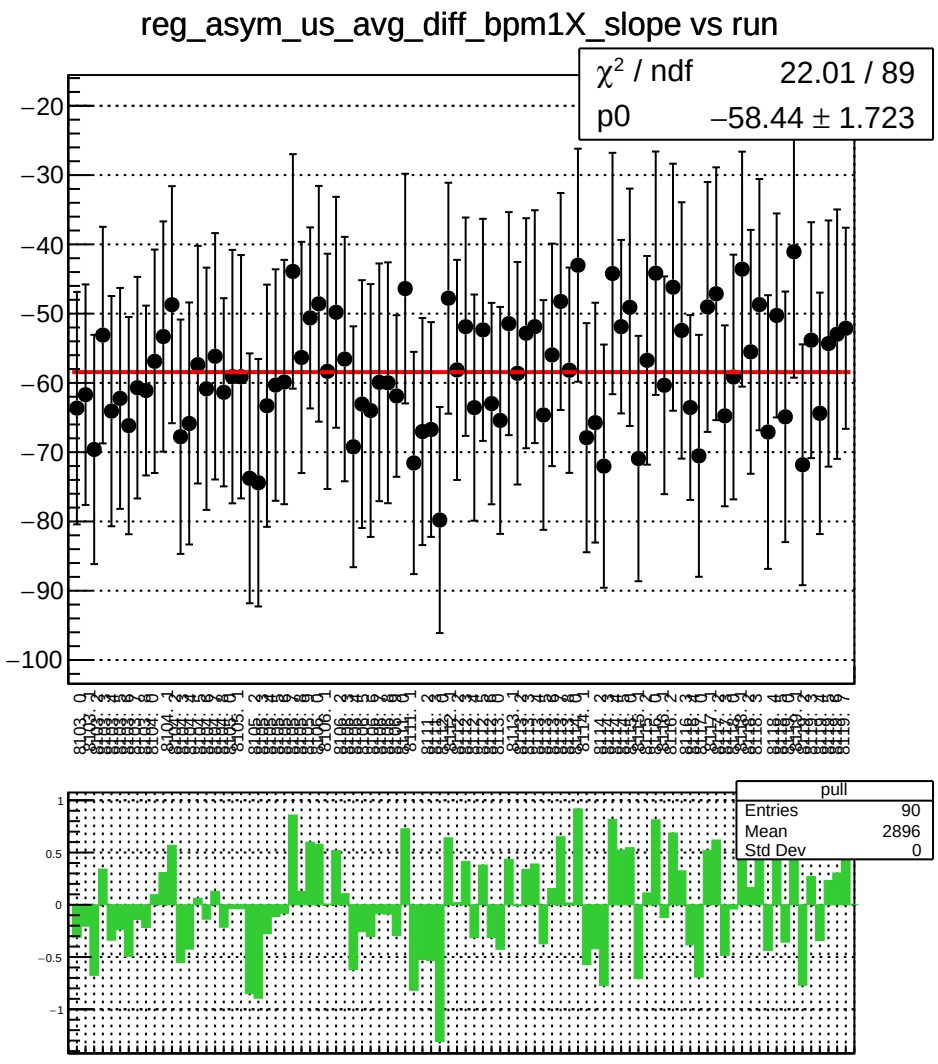

pull1D
Entries 90
Mean −0.004672
Std Dev 0.9336

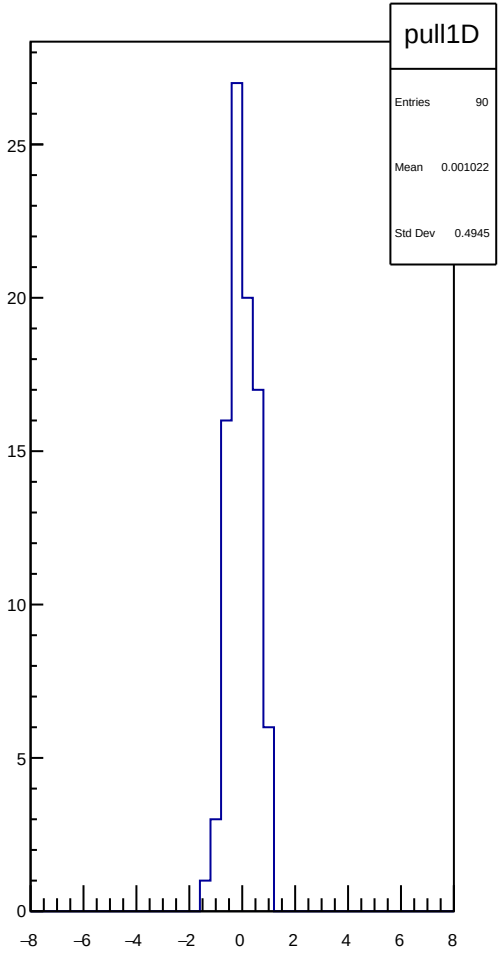

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 119.3 / 89
p0 −0.8277 ± 0.6516
pull
Entries 90
Mean −383.5
Std Dev 0

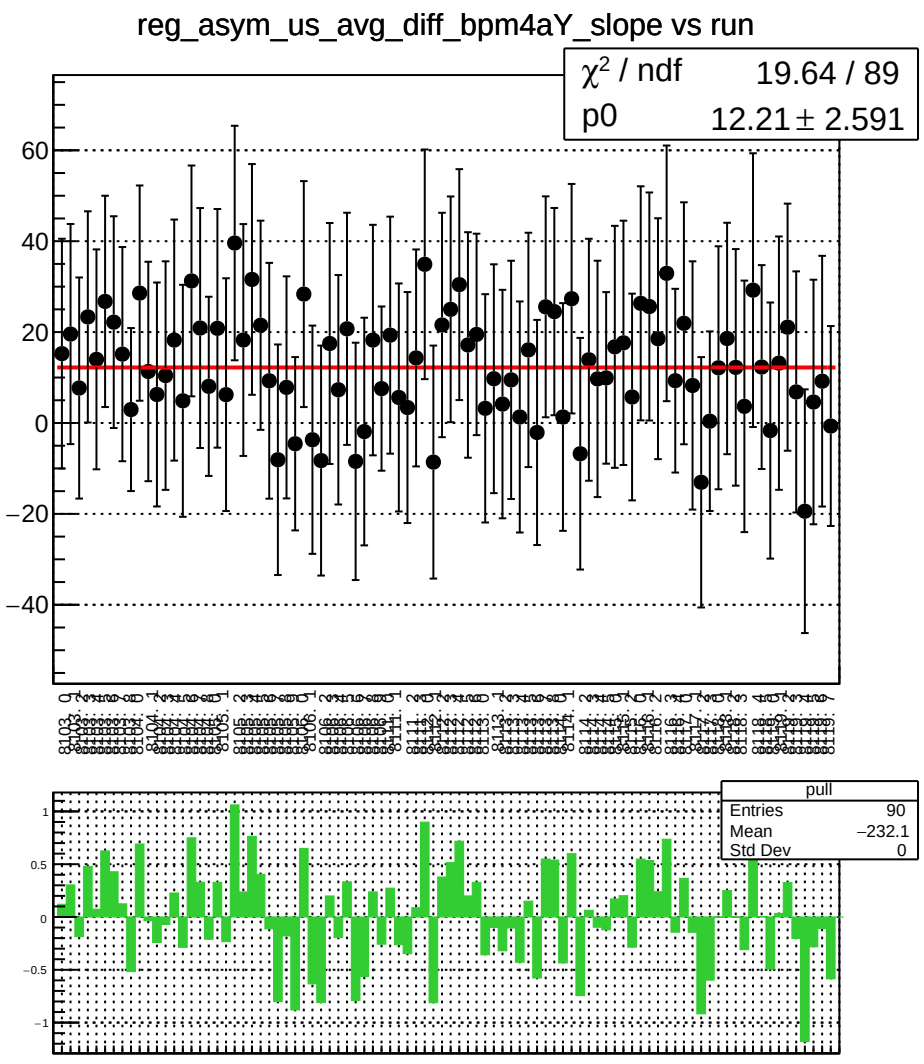

pull1D
Entries 90
Mean −0.01356
Std Dev 1.151

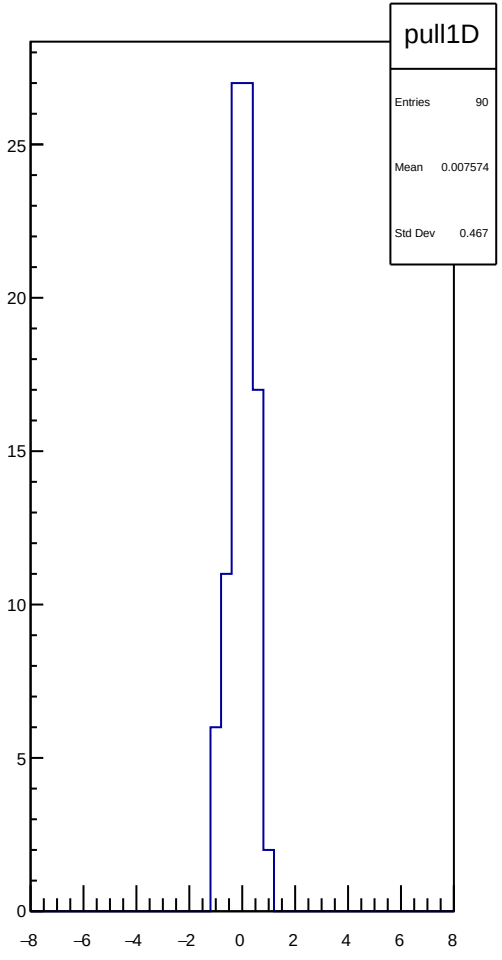

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 161.7 / 89
p0 −0.03554 ± 0.02446
pull
Entries 90
Mean −95.4
Std Dev 0

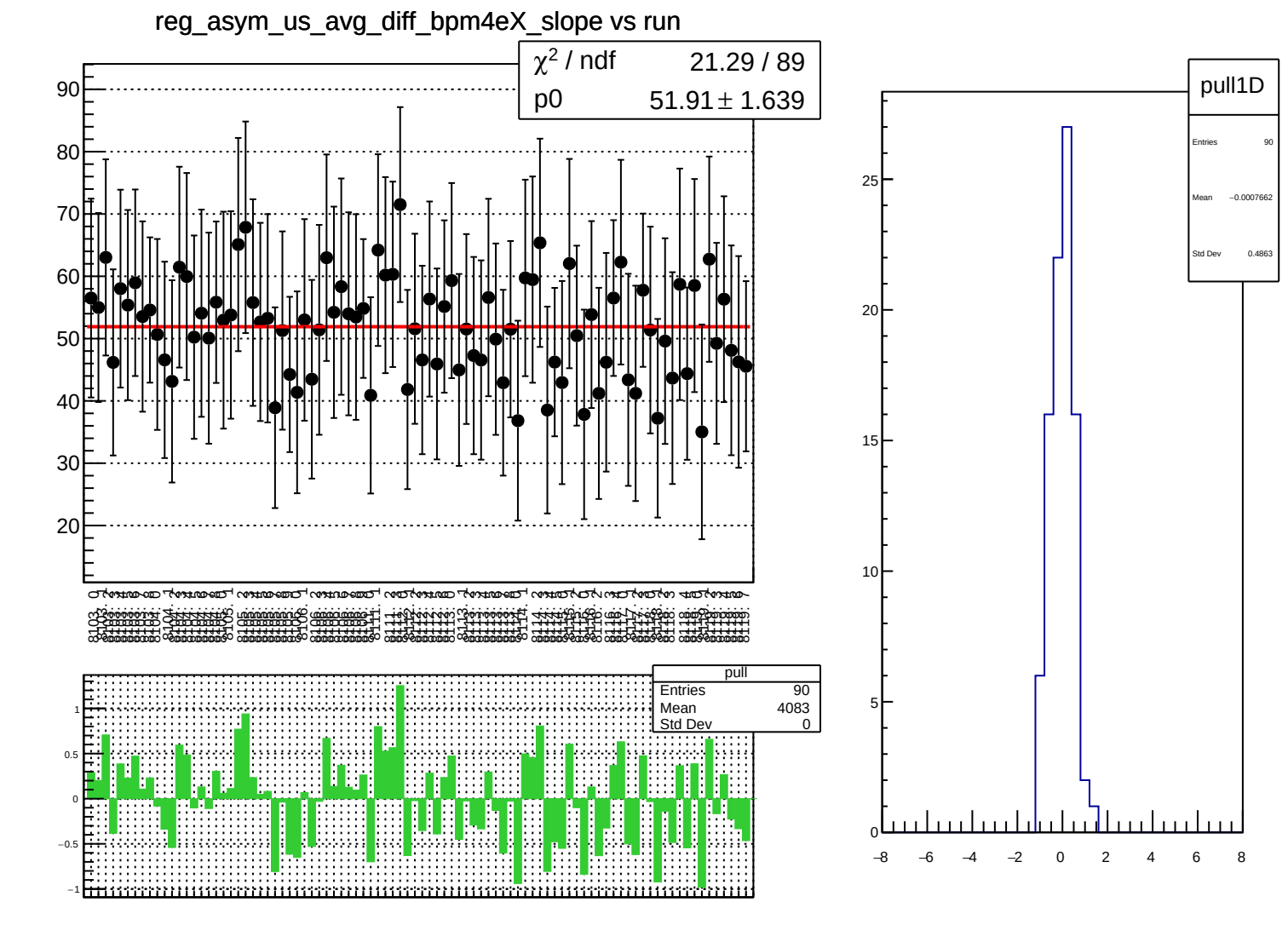

pull1D
Entries 90
Mean −0.01466
Std Dev 1.34

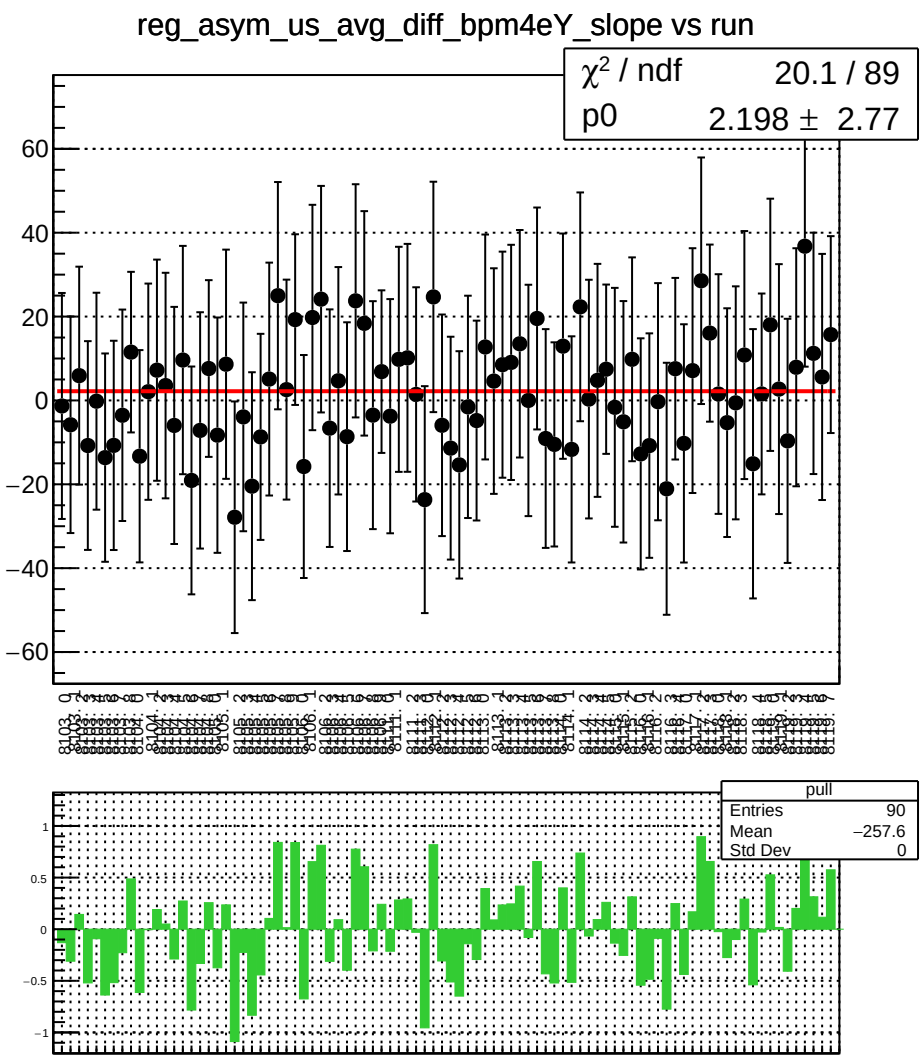

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 22.01 / 89
p0 −58.44 ± 1.723
pull
Entries 90
Mean 2896
Std Dev 0

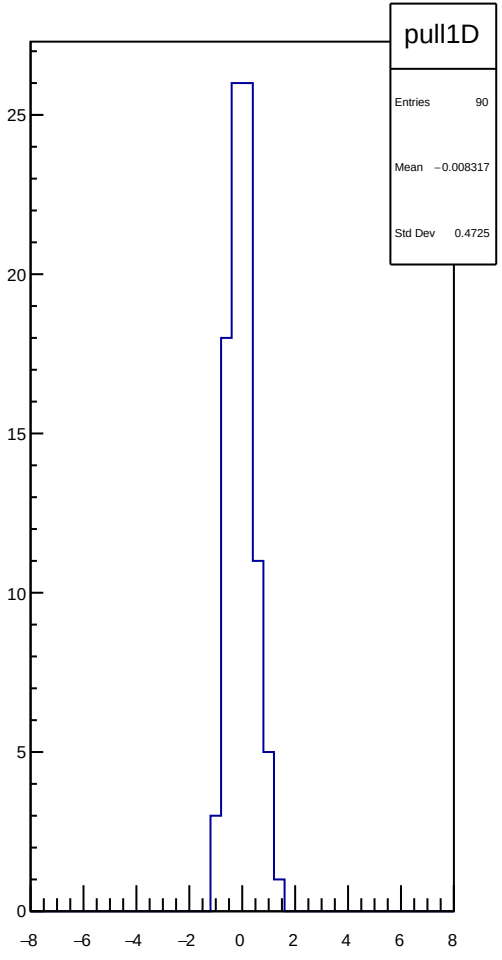

pull1D
Entries 90
Mean 0.001022
Std Dev 0.4945

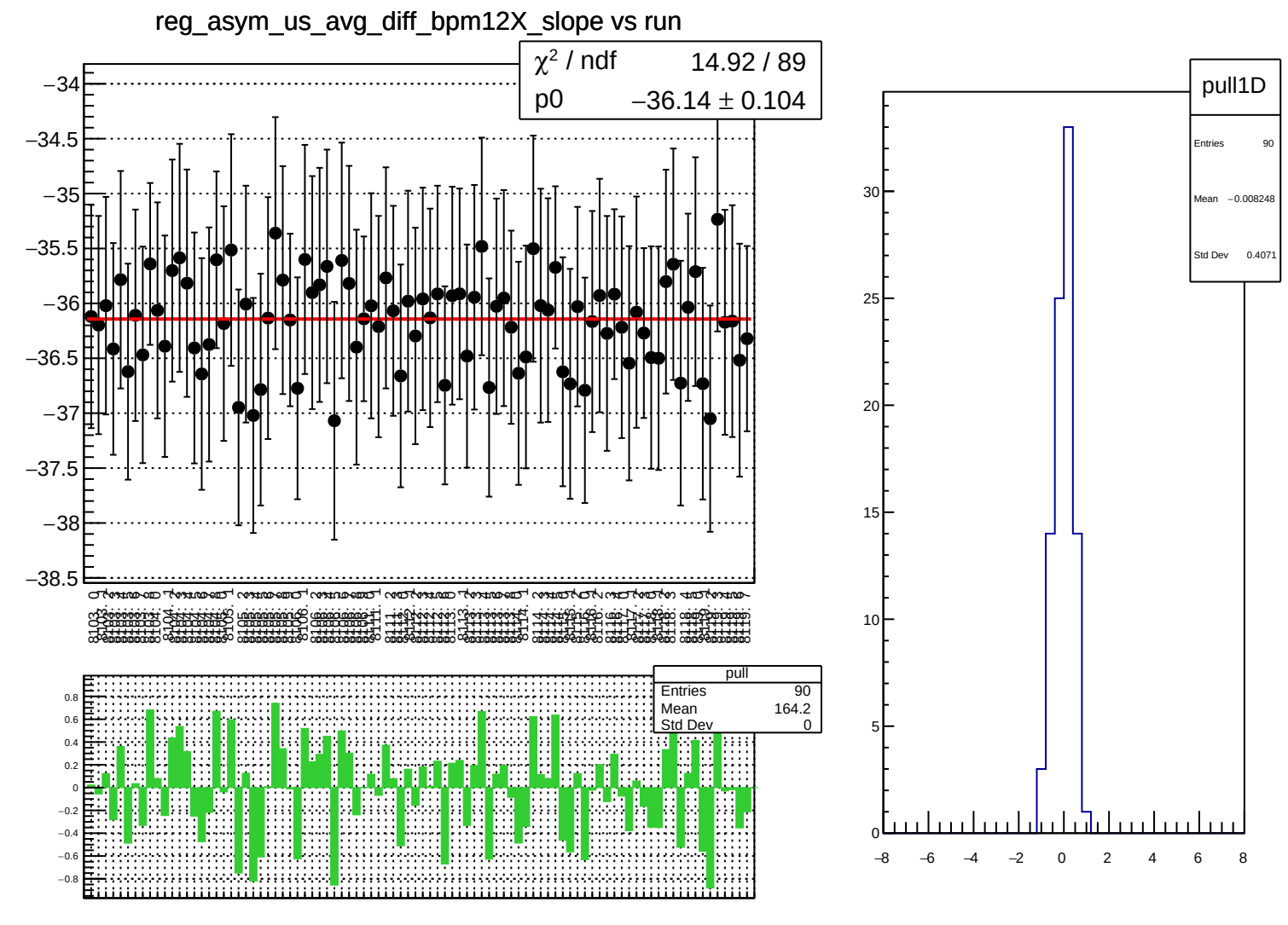

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.64 / 89
p0 12.21 ± 2.591
pull
Entries 90
Mean −232.1
Std Dev 0

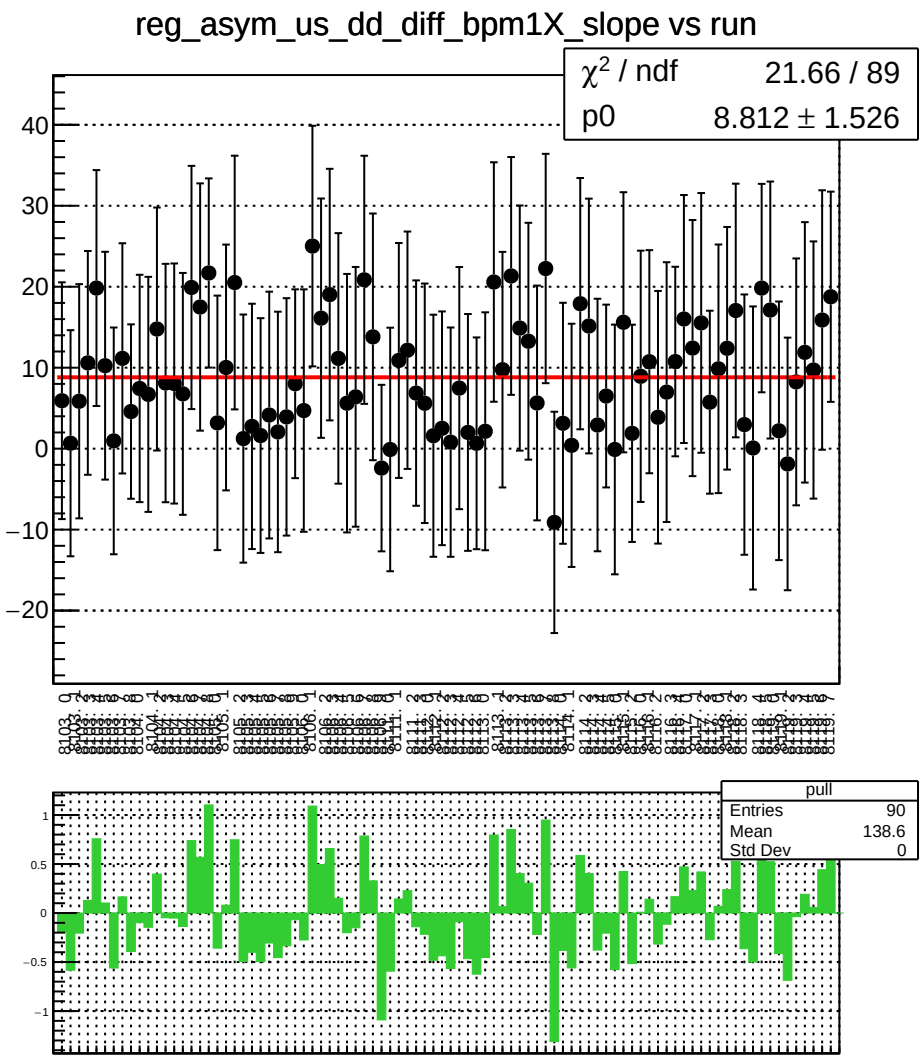

pull1D
Entries 90
Mean 0.007574
Std Dev 0.467

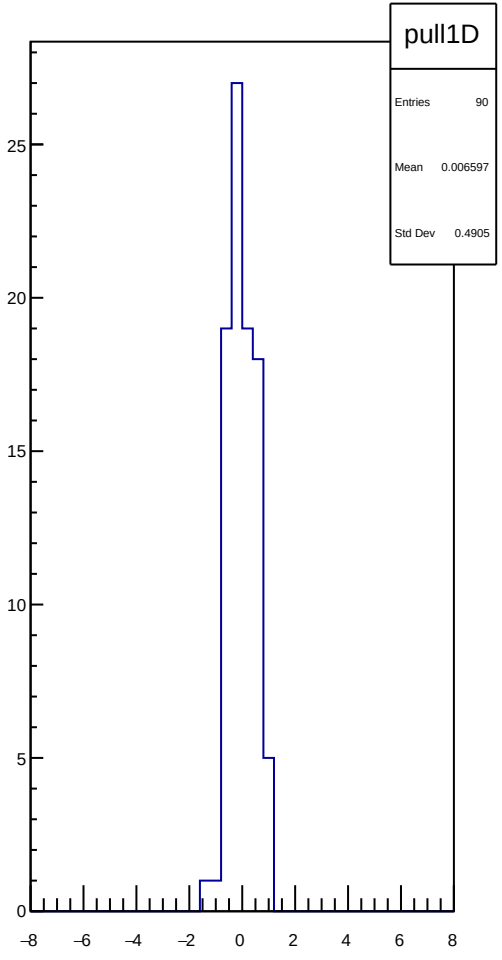

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.29 / 89
p0 51.91 ± 1.639
pull
Entries 90
Mean 4083
Std Dev 0
pull1D
Entries 90
Mean −0.0007662
Std Dev 0.4863

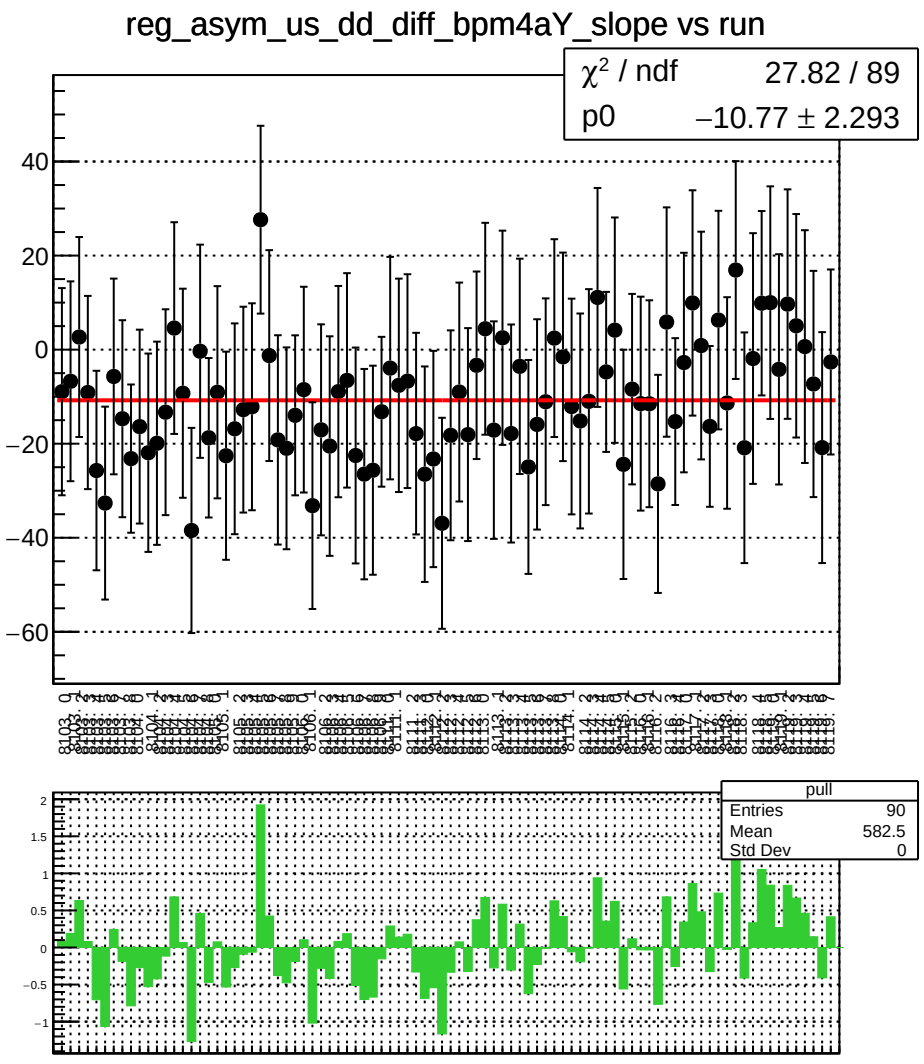

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.1 / 89
p0 2.198 ± 2.77
pull
Entries 90
Mean −257.6
Std Dev 0

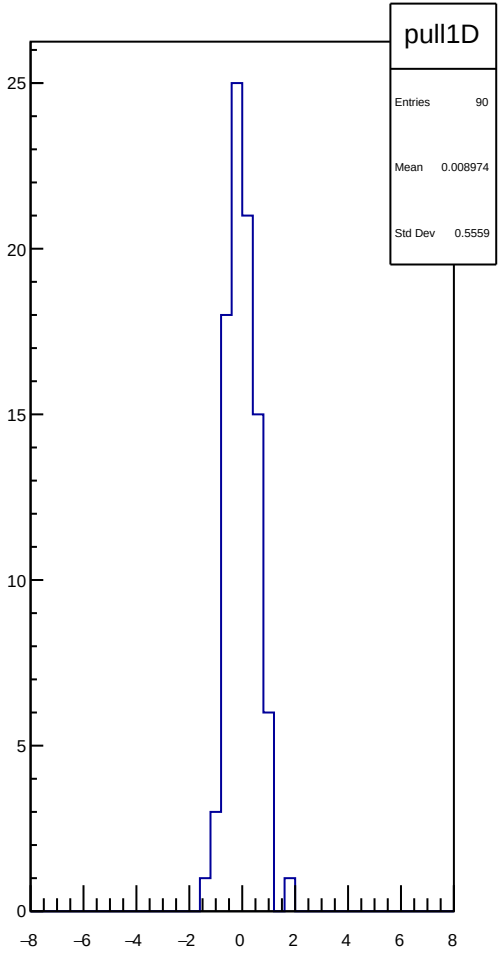

pull1D
Entries 90
Mean −0.008317
Std Dev 0.4725

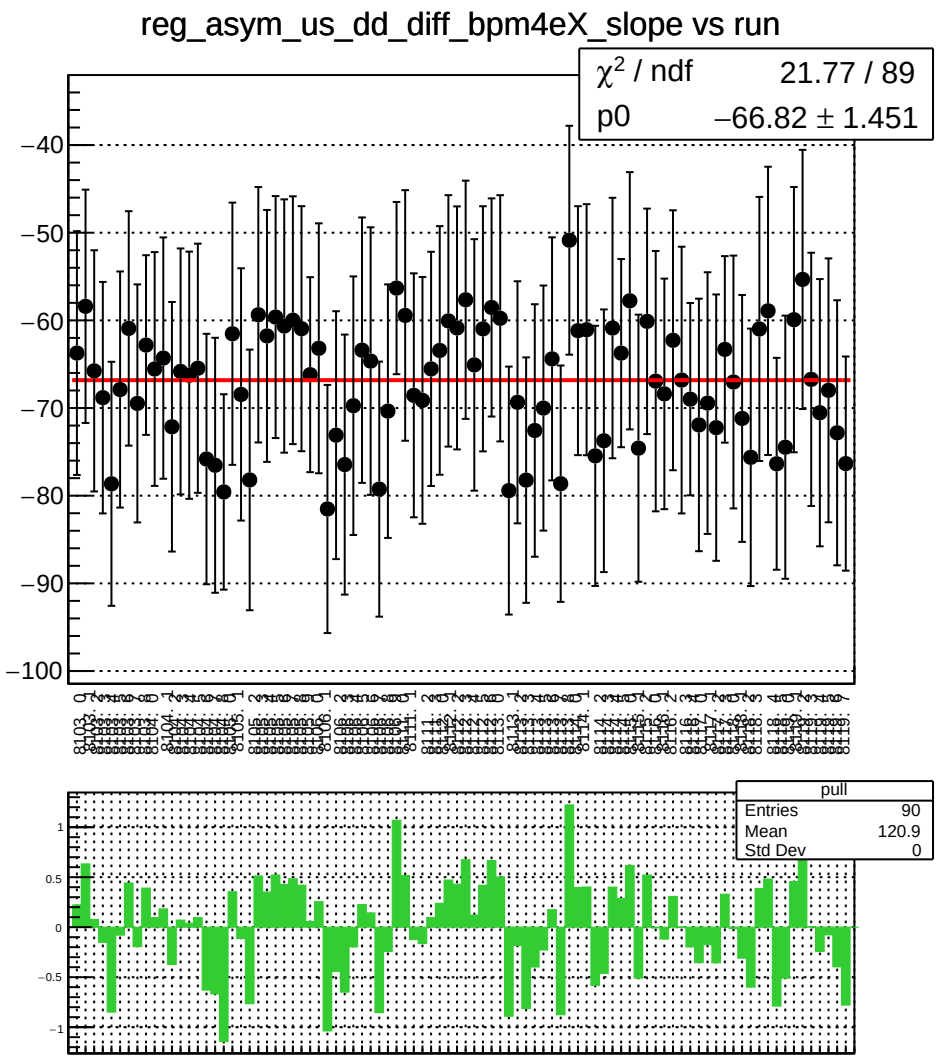

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 14.92 / 89
p0 −36.14 ± 0.104
pull
Entries 90
Mean 164.2
Std Dev 0
pull1D
Entries 90
Mean −0.008248
Std Dev 0.4071

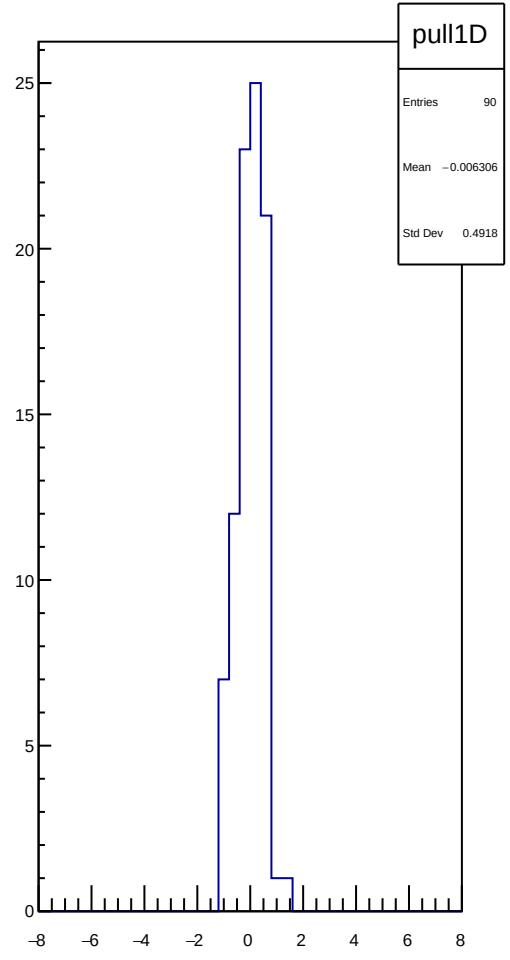

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 21.66 / 89
p0 8.812 ± 1.526
pull
Entries 90
Mean 138.6
Std Dev 0

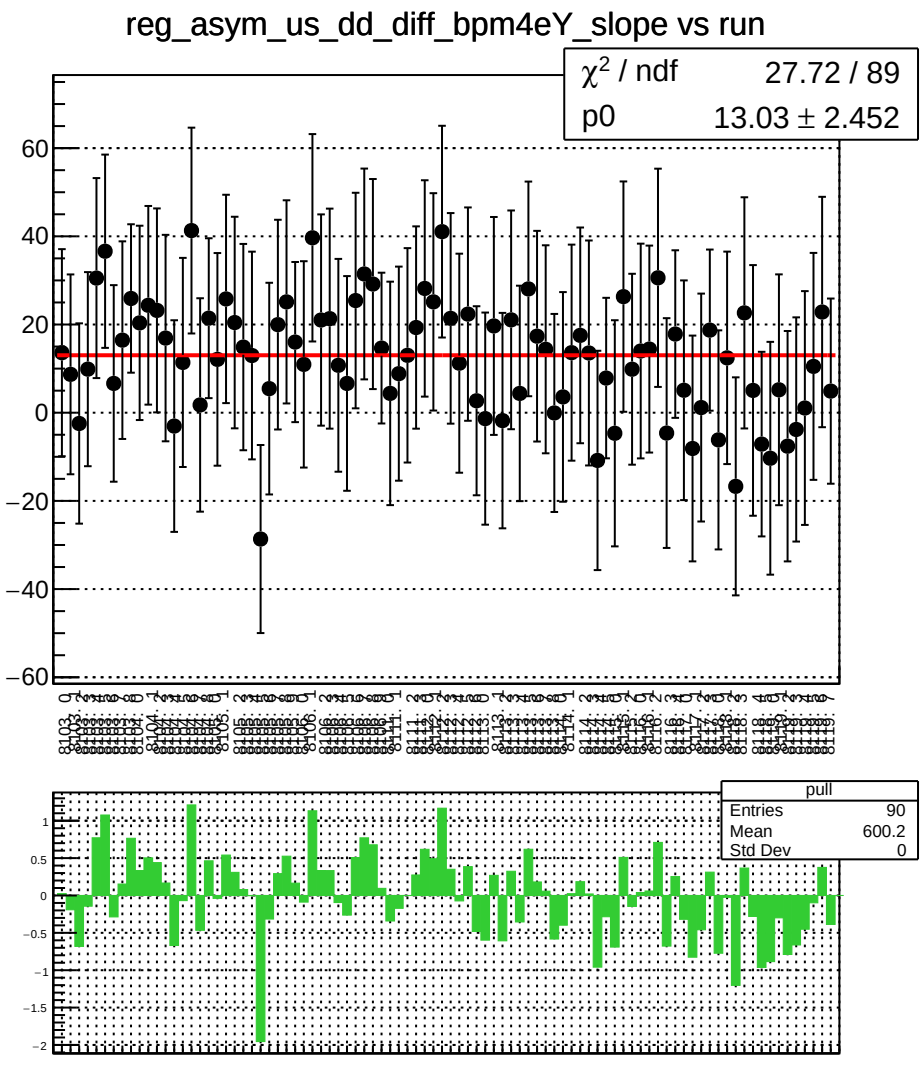

pull1D
Entries 90
Mean 0.006597
Std Dev 0.4905

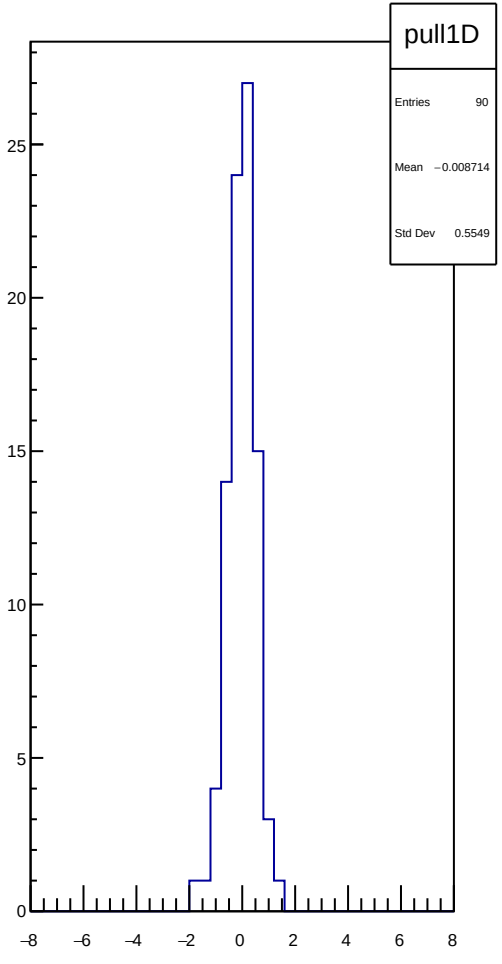

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.82 / 89
p0 −10.77 ± 2.293
pull
Entries 90
Mean 582.5
Std Dev 0

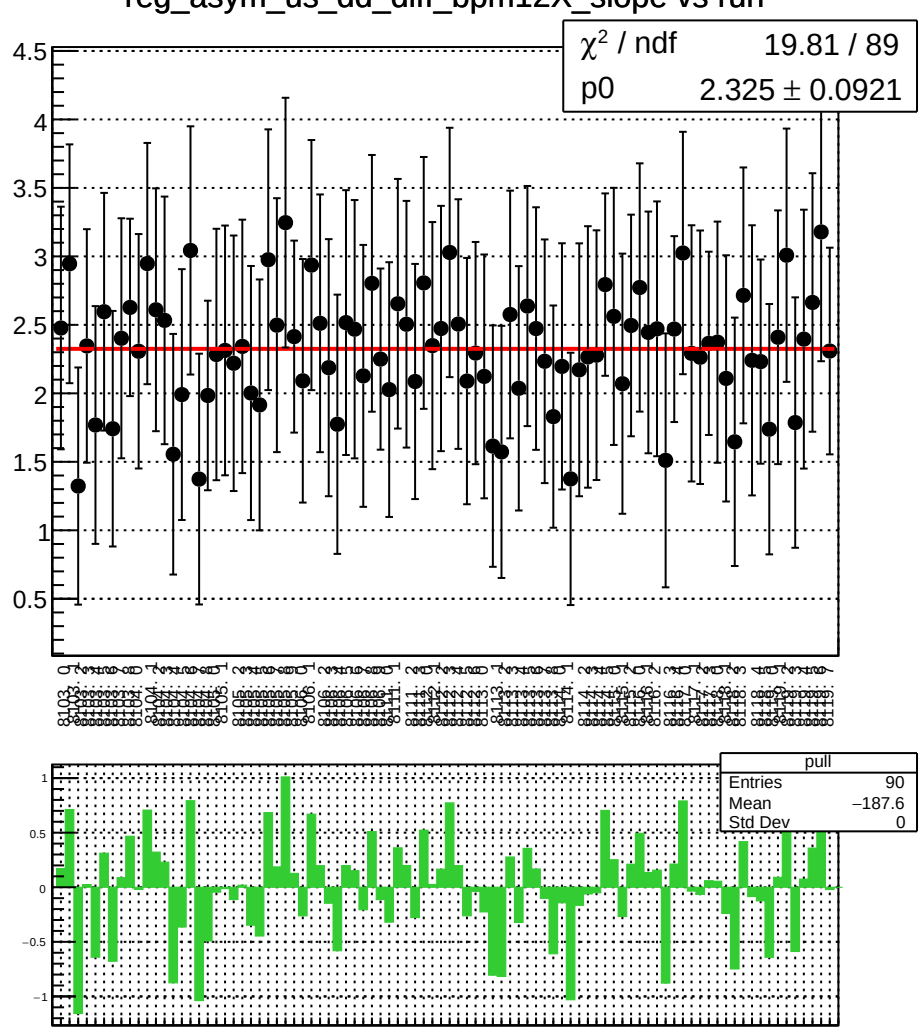

pull1D
Entries 90
Mean 0.008974
Std Dev 0.5559

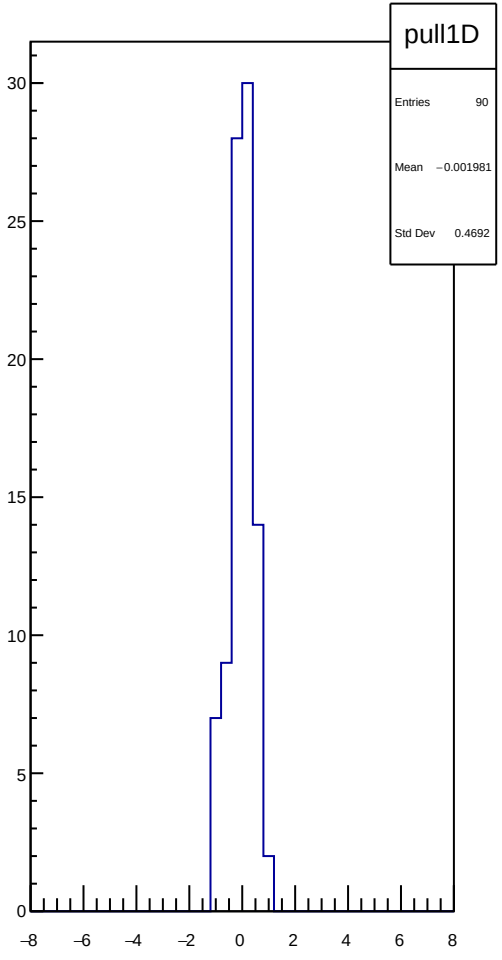

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.77 / 89
p0 −66.82 ± 1.451
−40
−50
−60
−70
−80
−90
−100
pull
Entries 90
Mean 120.9
Std Dev 0
1
0.5
0
−0.5
−1

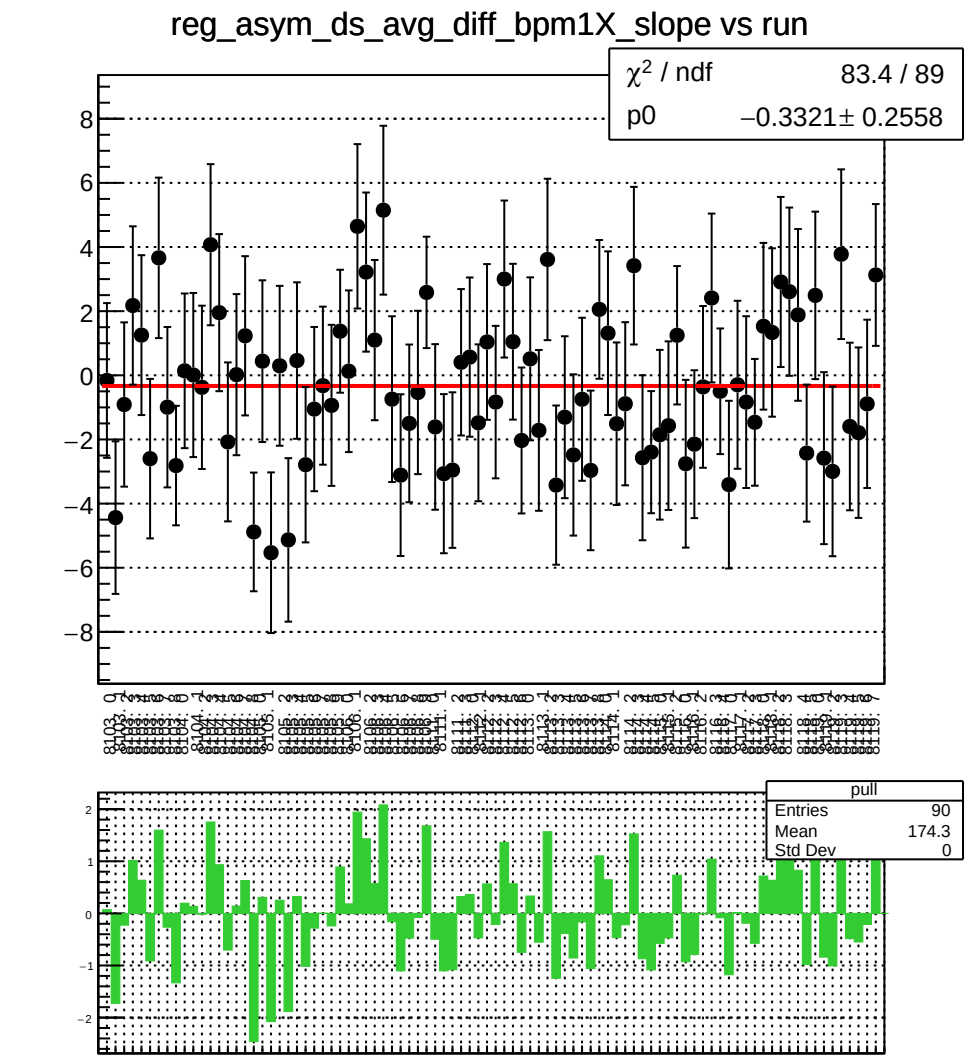

pull1D
Entries 90
Mean −0.006306
Std Dev 0.4918
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

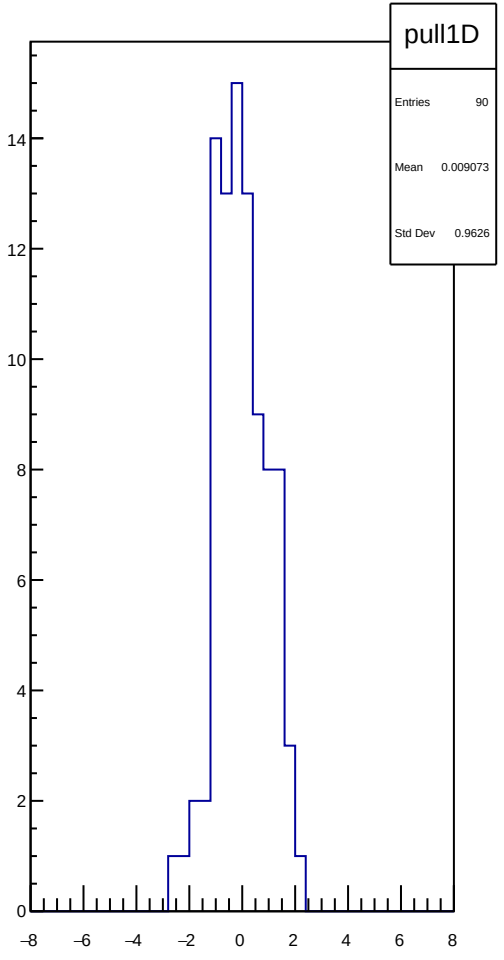

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.72 / 89
p0 13.03 ± 2.452
pull
Entries 90
Mean 600.2
Std Dev 0

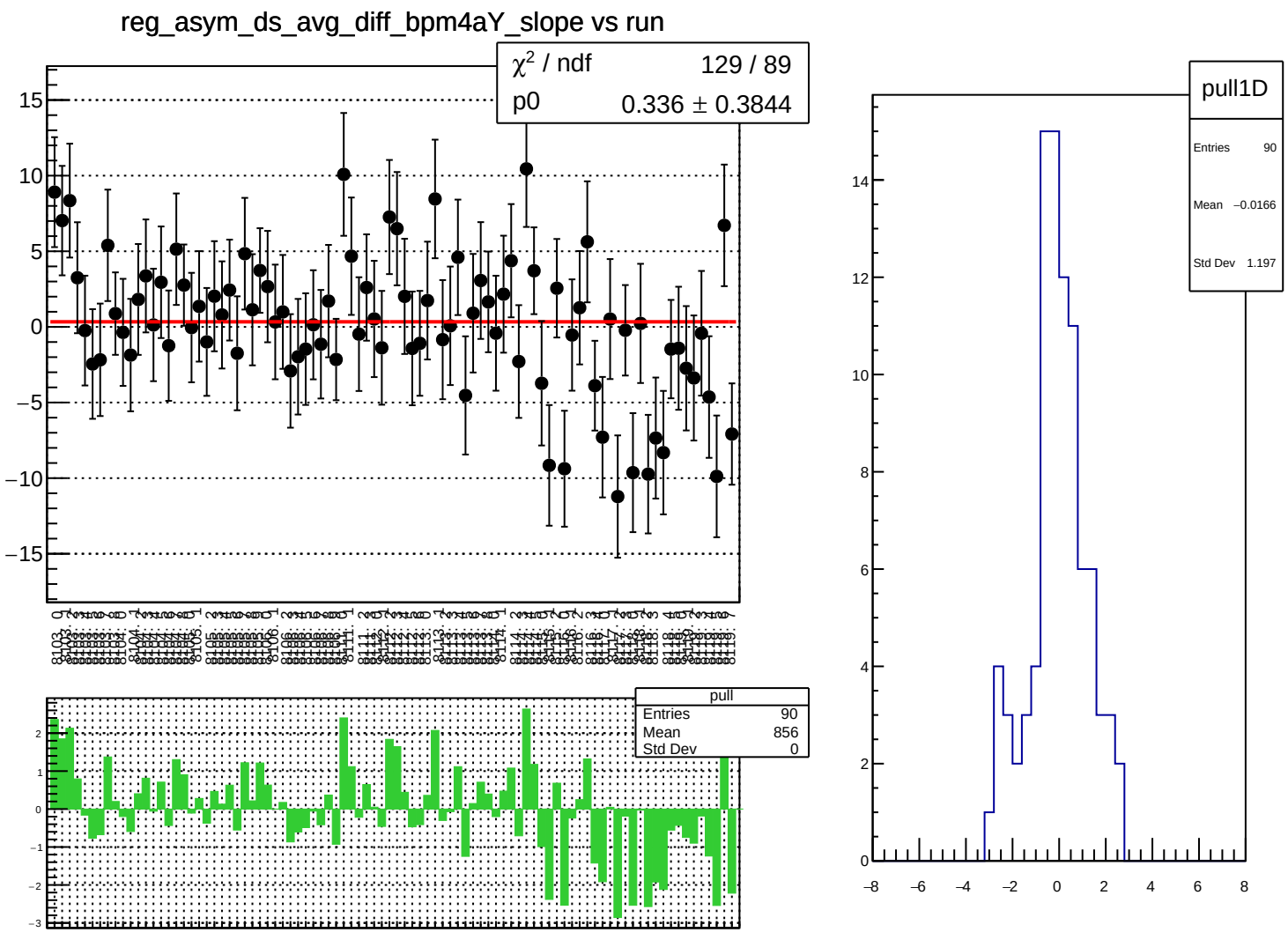

pull1D
Entries 90
Mean −0.008714
Std Dev 0.5549

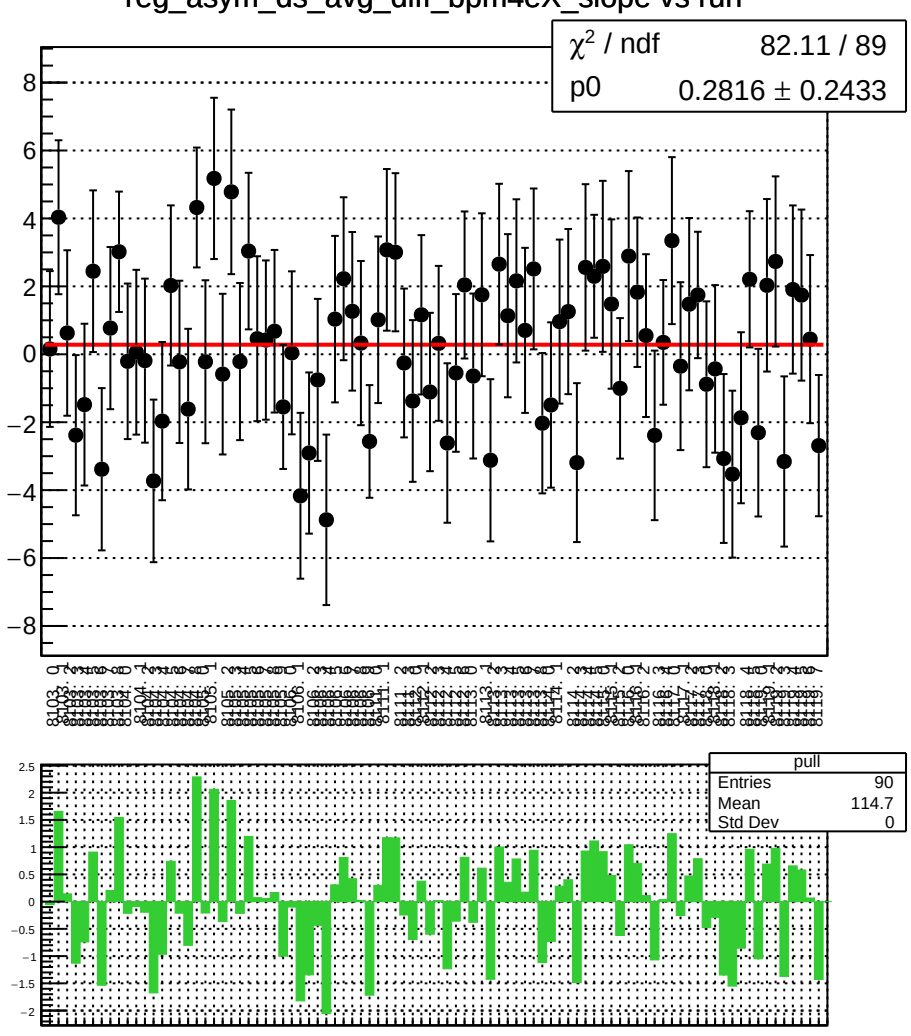

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 19.81 / 89
p0 2.325 ± 0.0921
pull
Entries 90
Mean −187.6
Std Dev 0

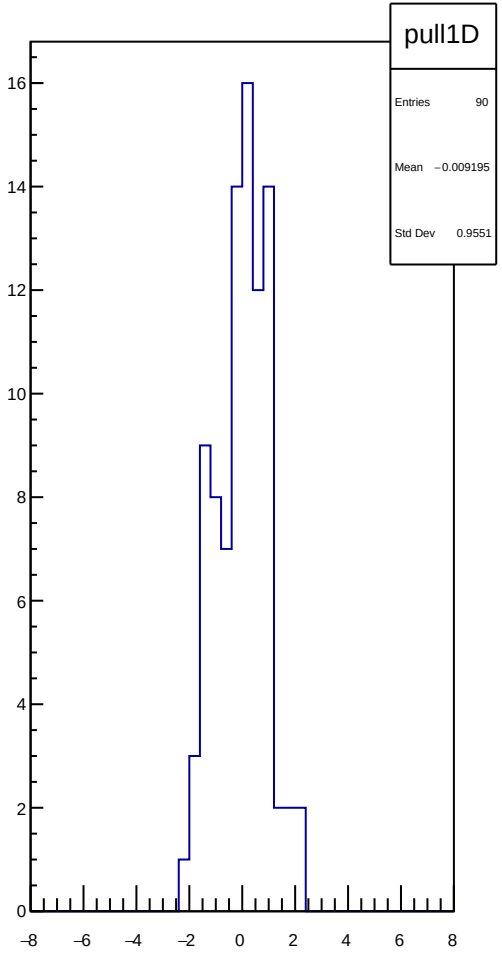

pull1D
Entries 90
Mean −0.001981
Std Dev 0.4692

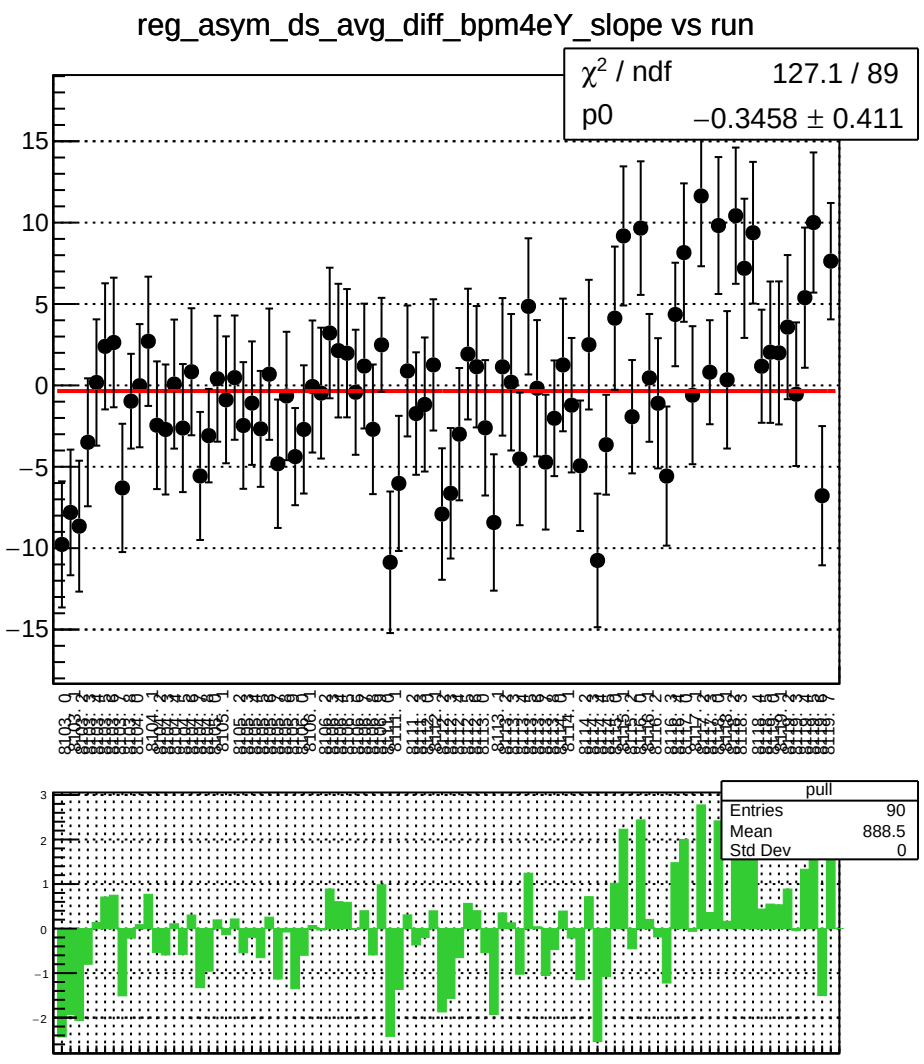

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 83.4 / 89
p0 −0.3321± 0.2558
pull
Entries 90
Mean 174.3
Std Dev 0

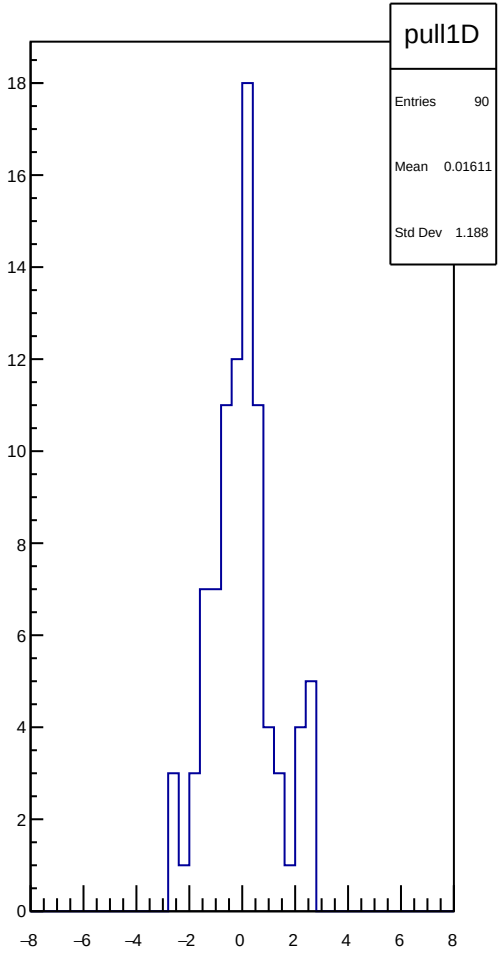

pull1D
Entries 90
Mean 0.009073
Std Dev 0.9626

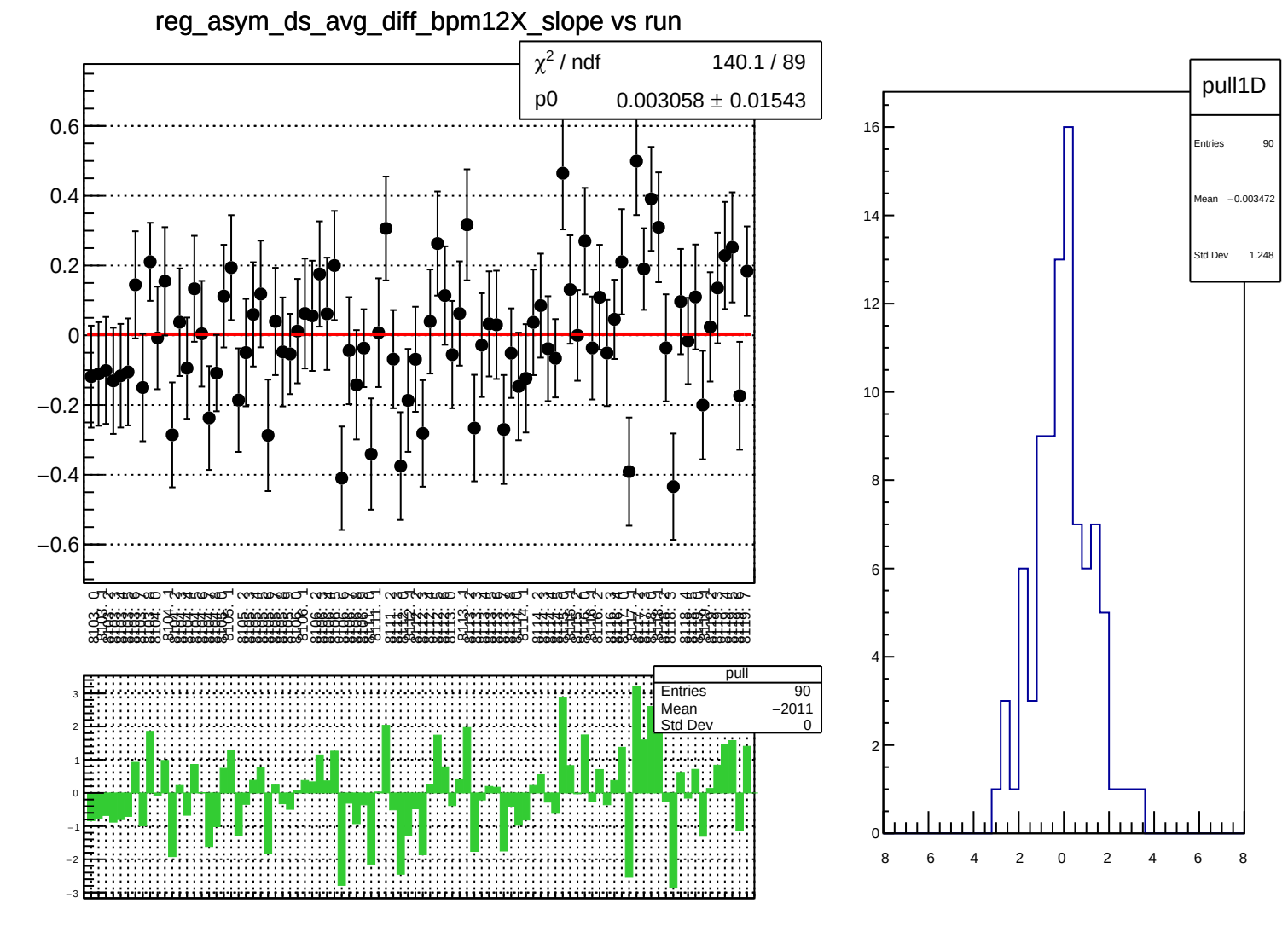

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 129 / 89
p0 0.336 ± 0.3844
pull
Entries 90
Mean 856
Std Dev 0
pull1D
Entries 90
Mean −0.0166
Std Dev 1.197

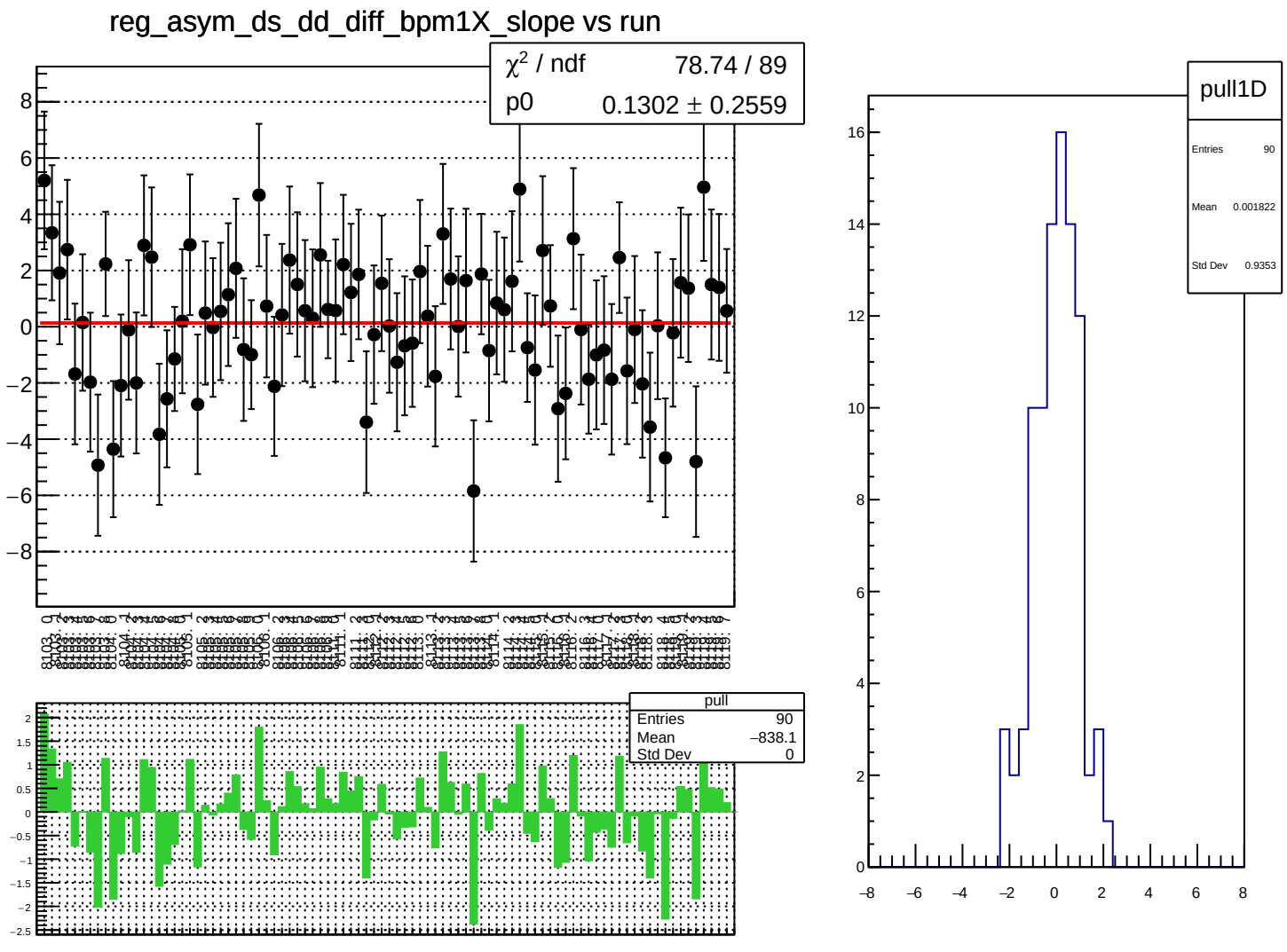

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.11 / 89
p0 0.2816 ± 0.2433
pull
Entries 90
Mean 114.7
Std Dev 0

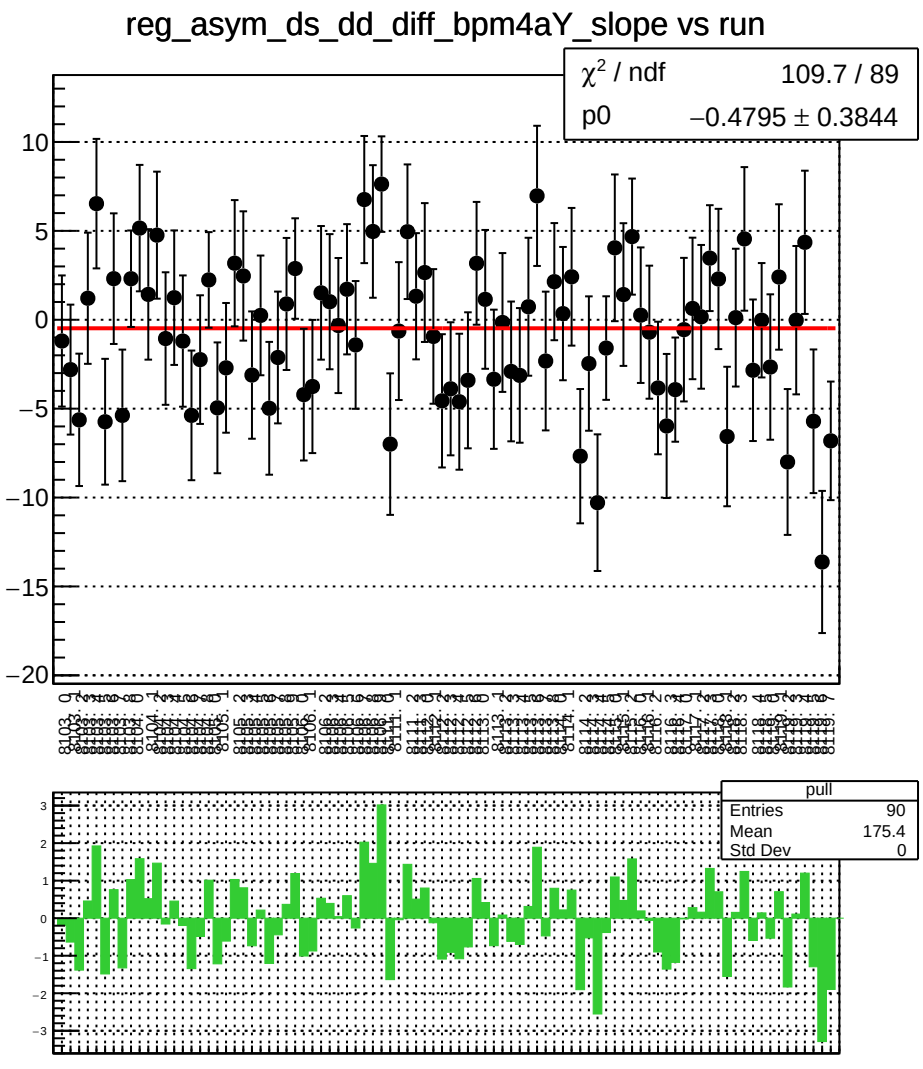

pull1D
Entries 90
Mean −0.009195
Std Dev 0.9551

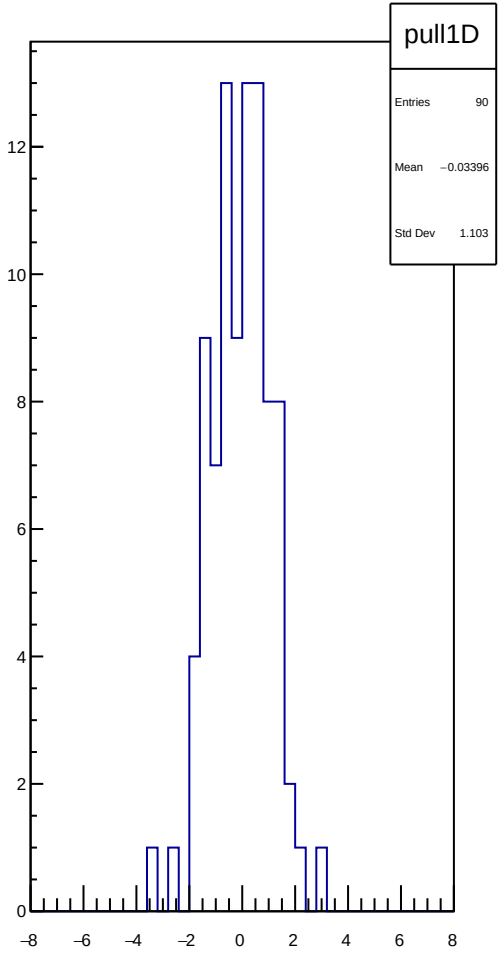

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 127.1 / 89
p0 −0.3458 ± 0.411
pull
Entries 90
Mean 888.5
Std Dev 0

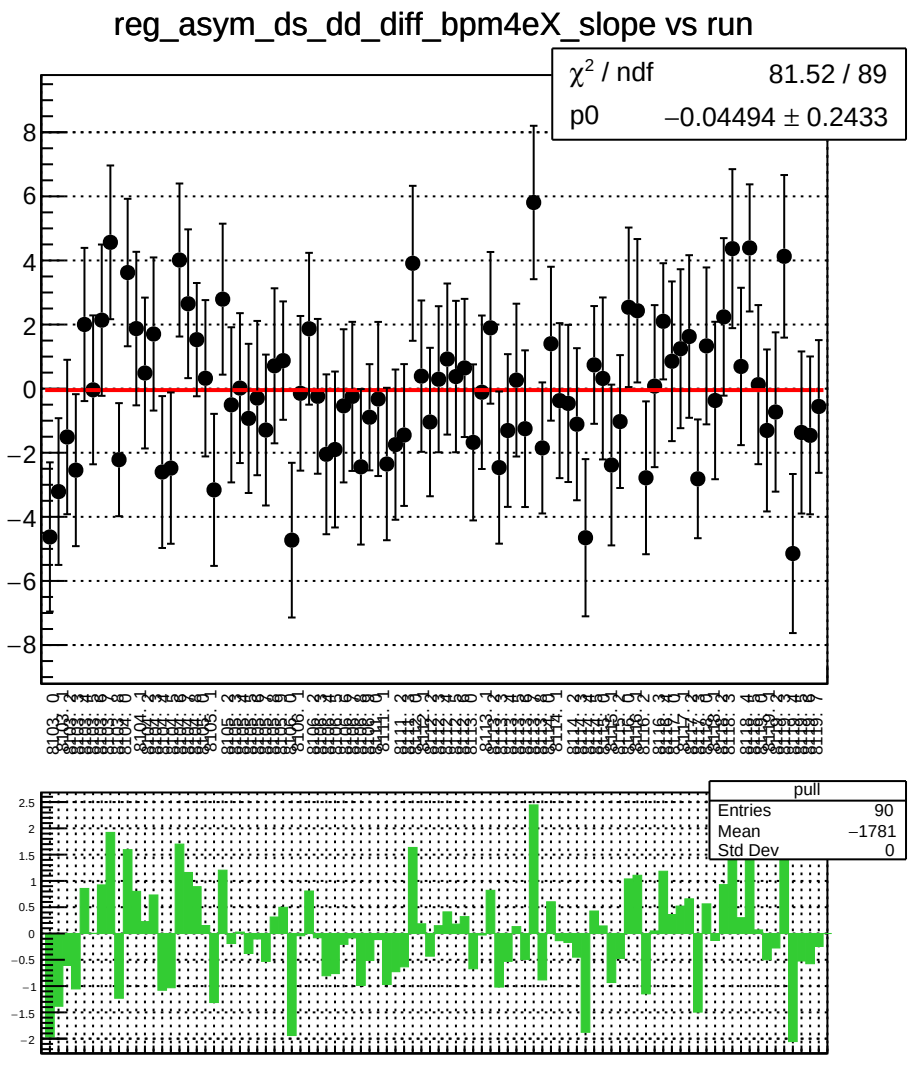

pull1D
Entries 90
Mean 0.01611
Std Dev 1.188

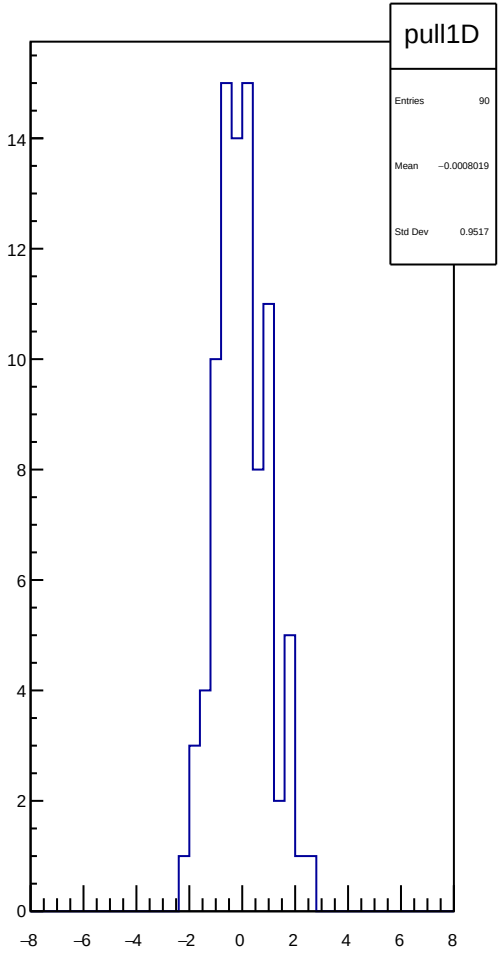

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 140.1 / 89
p0 0.003058 ± 0.01543
pull
Entries 90
Mean −2011
Std Dev 0
pull1D
Entries 90
Mean −0.003472
Std Dev 1.248

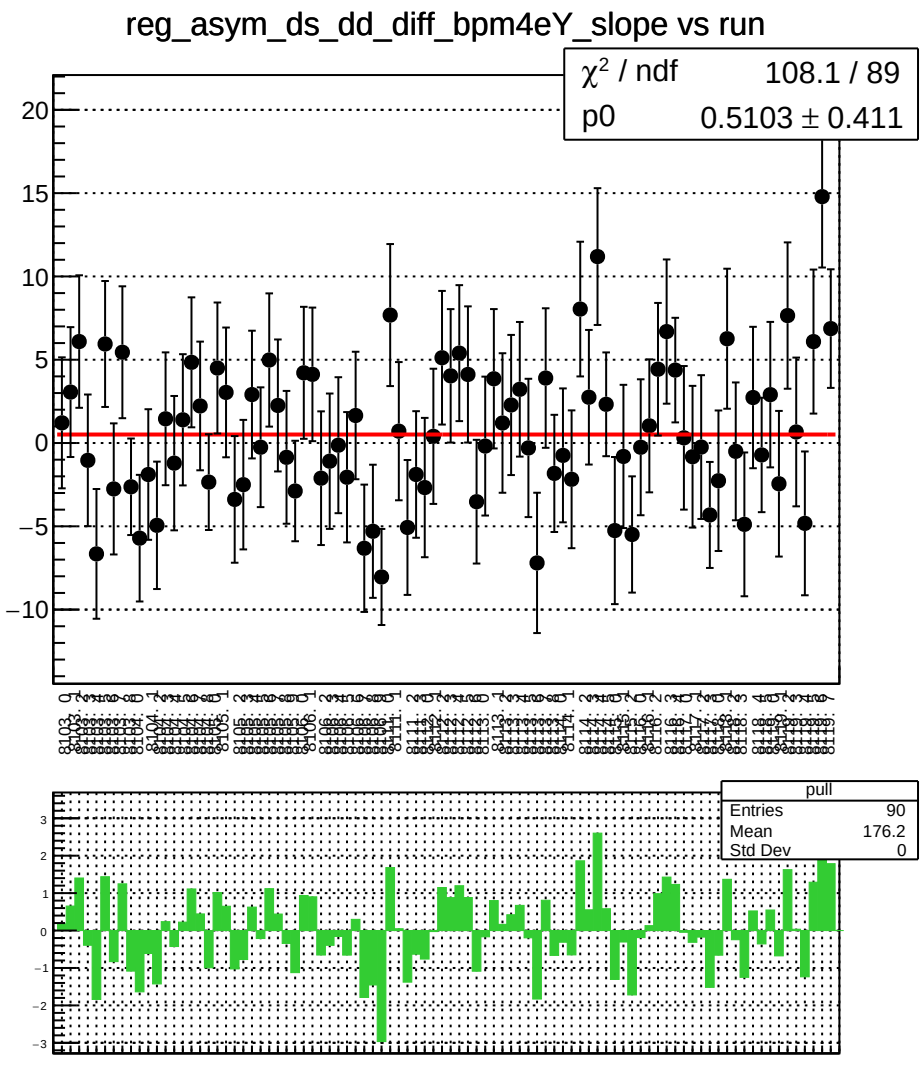

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 78.74 / 89
p0 0.1302 ± 0.2559
pull
Entries 90
Mean −838.1
Std Dev 0
pull1D
Entries 90
Mean 0.001822
Std Dev 0.9353

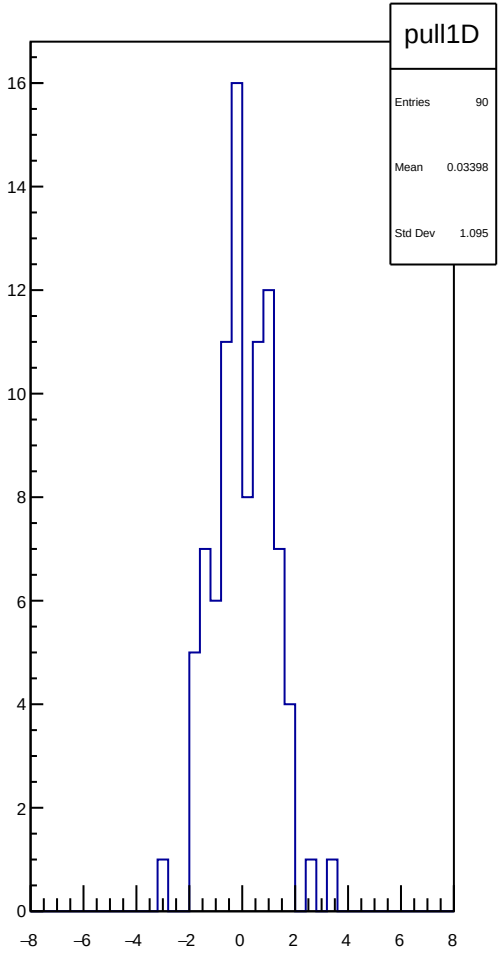

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 109.7 / 89
p0 −0.4795 ± 0.3844
pull
Entries 90
Mean 175.4
Std Dev 0

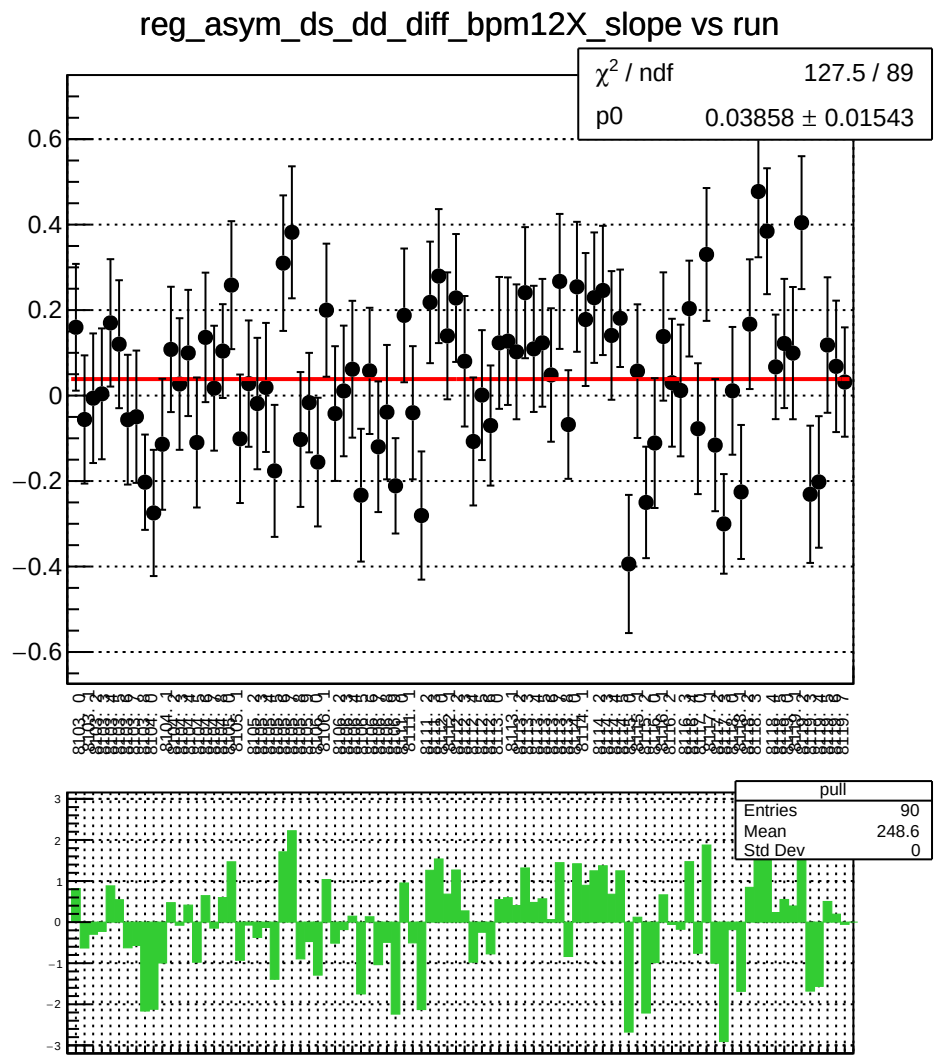

pull1D
Entries 90
Mean −0.03396
Std Dev 1.103

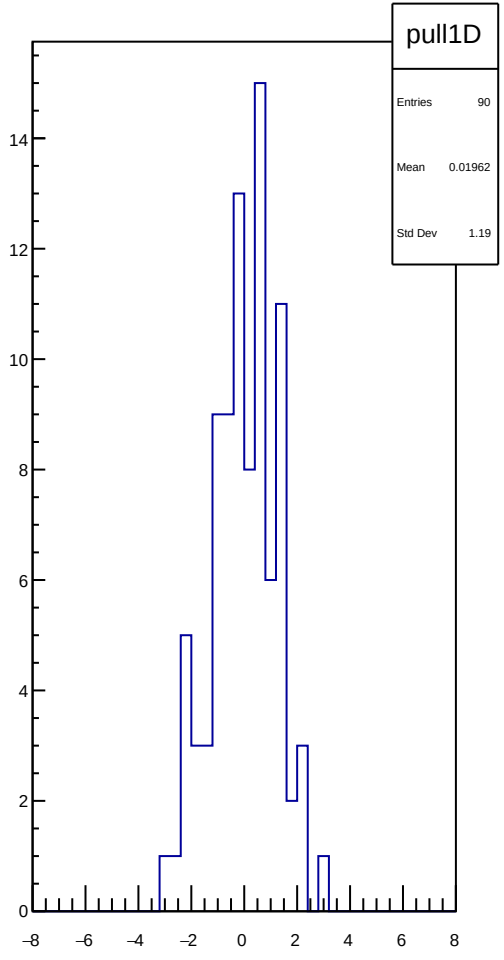

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.52 / 89
p0 −0.04494 ± 0.2433
pull
Entries 90
Mean −1781
Std Dev 0

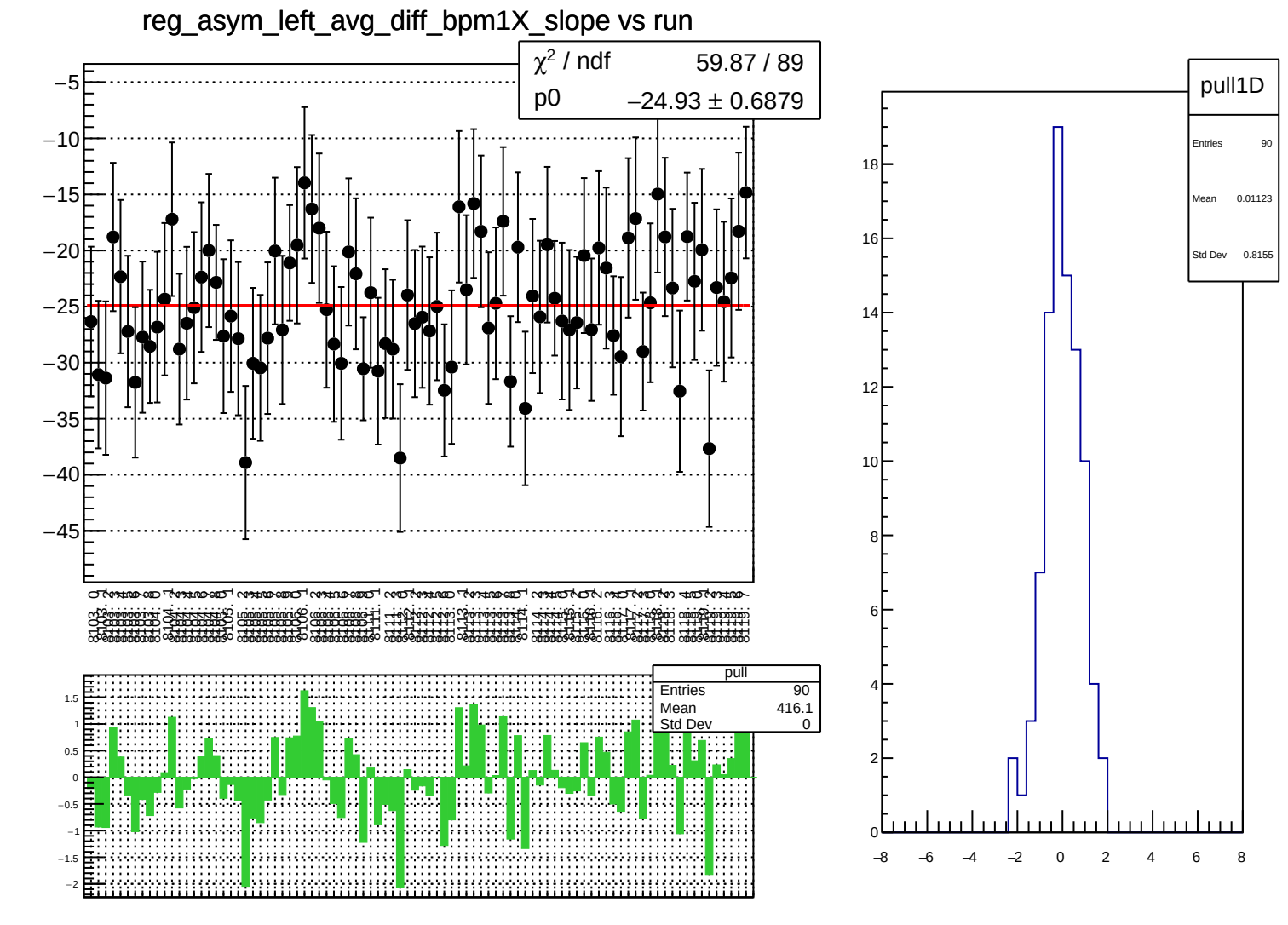

pull1D
Entries 90
Mean −0.0008019
Std Dev 0.9517

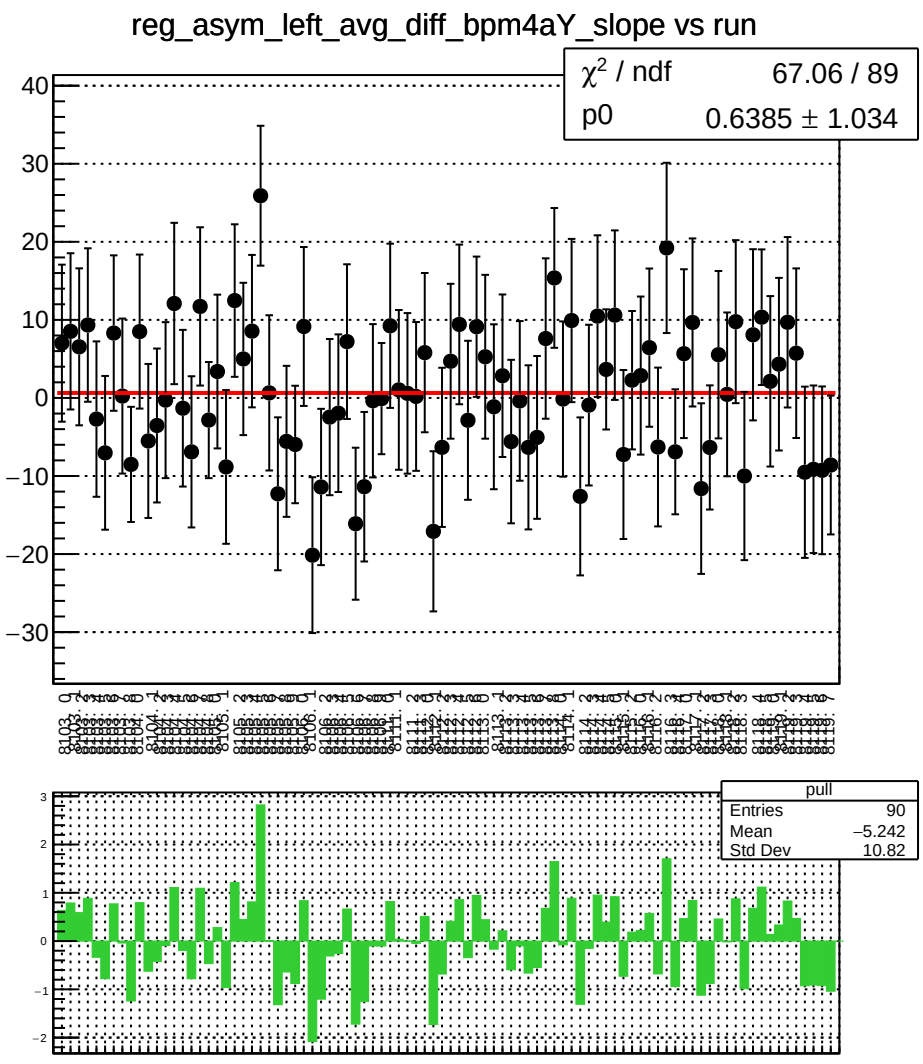

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 108.1 / 89
p0 0.5103 ± 0.411
pull
Entries 90
Mean 176.2
Std Dev 0

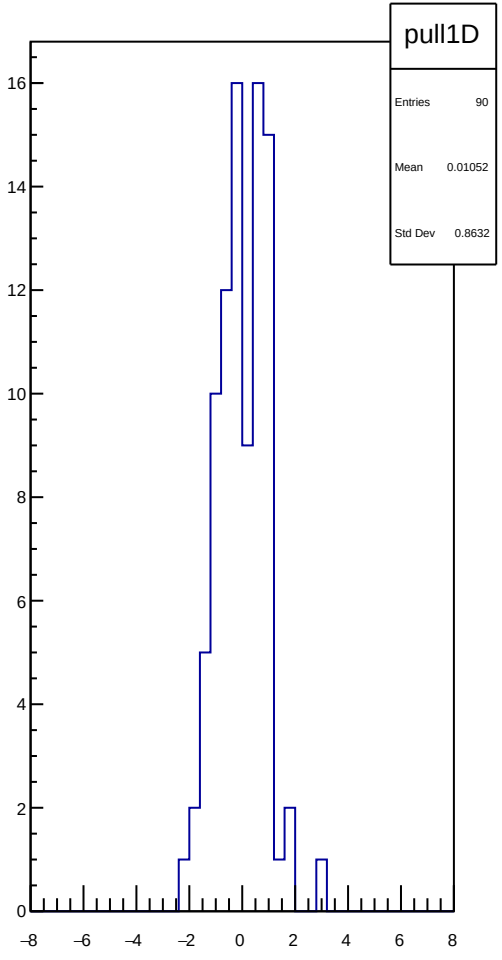

pull1D
Entries 90
Mean 0.03398
Std Dev 1.095

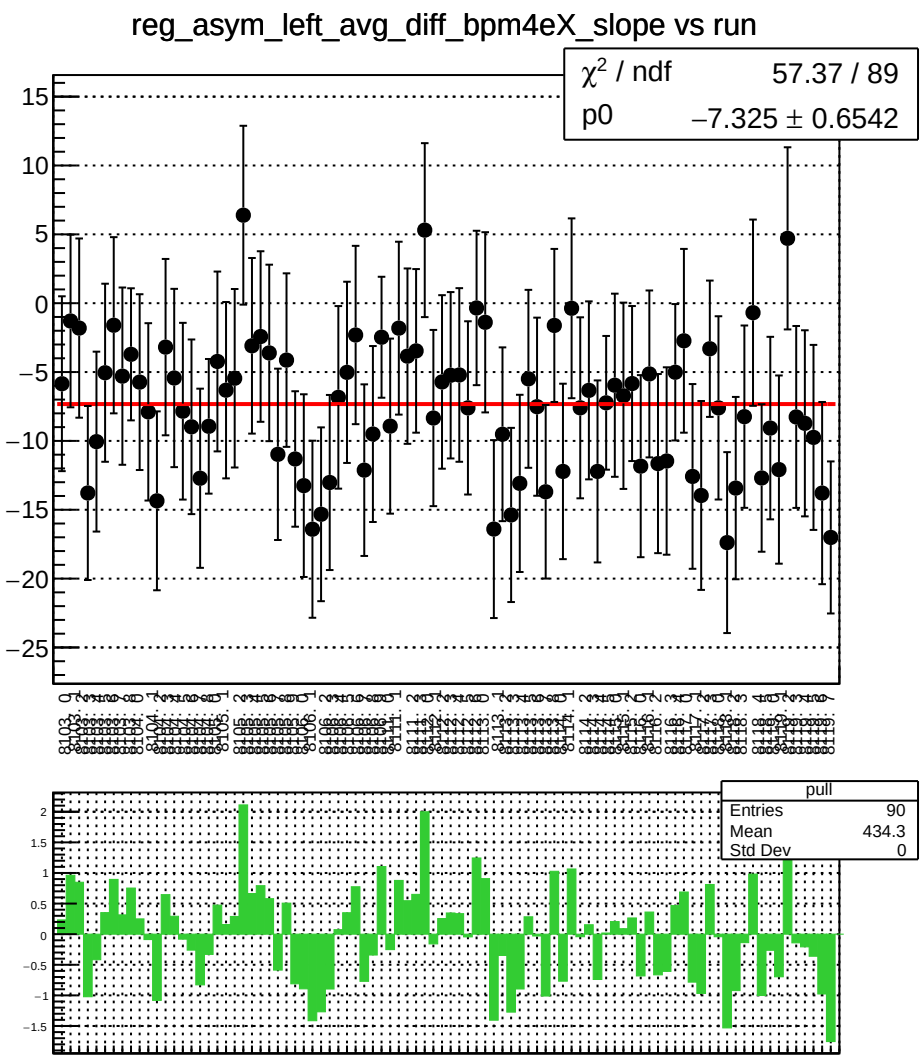

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 127.5 / 89
p0 0.03858 ± 0.01543
pull
Entries 90
Mean 248.6
Std Dev 0

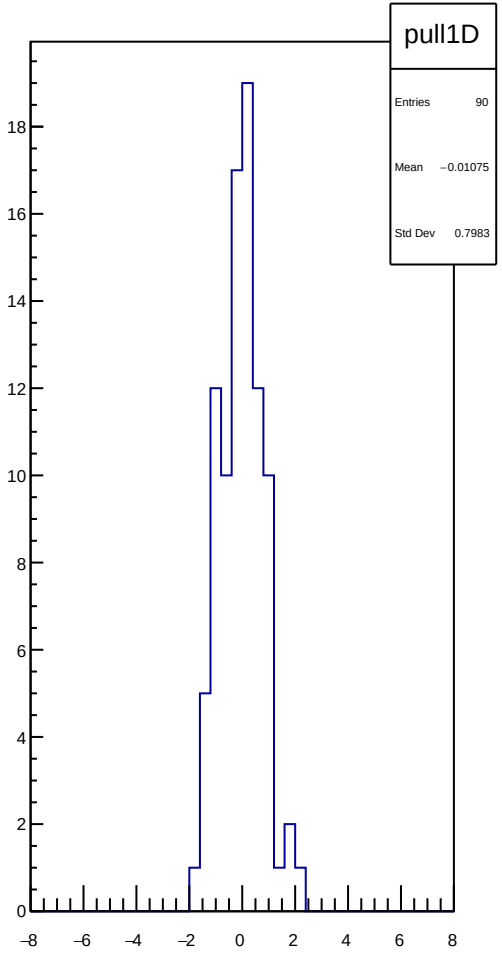

pull1D
Entries 90
Mean 0.01962
Std Dev 1.19

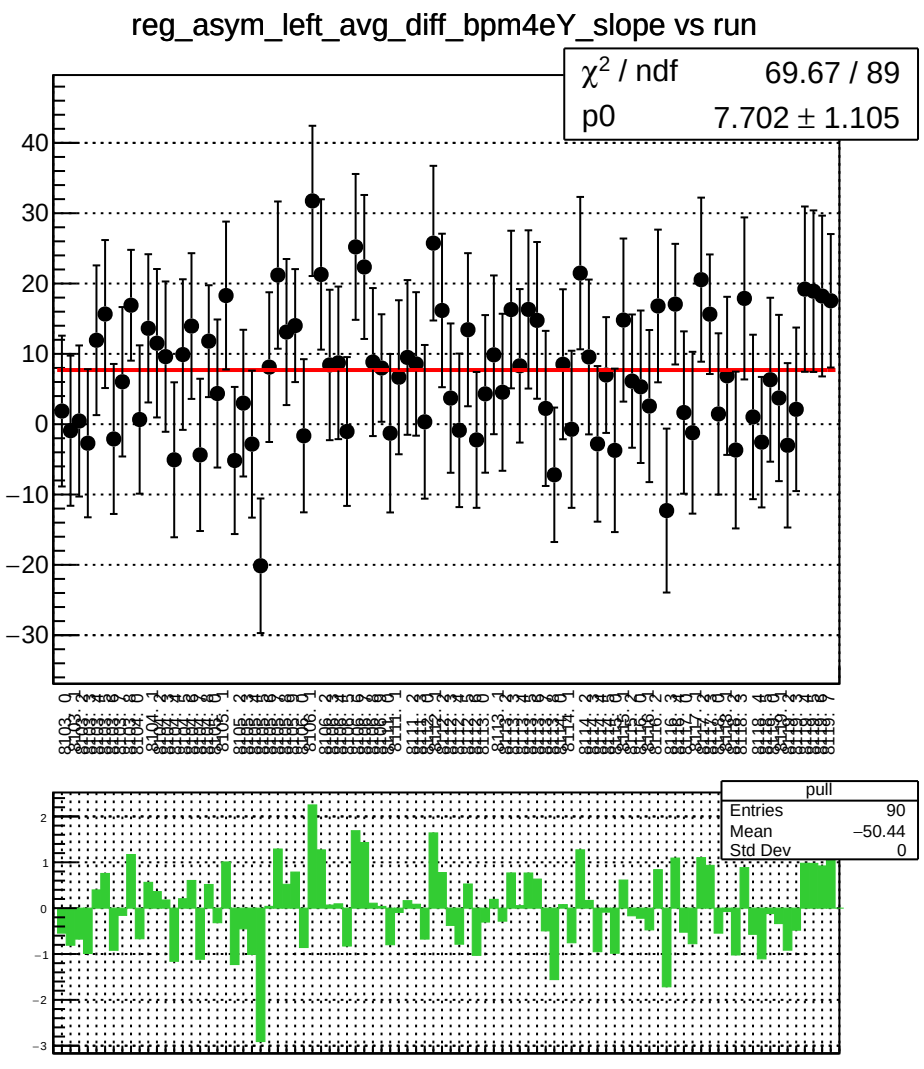

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 59.87 / 89
p0 −24.93 ± 0.6879
pull
Entries 90
Mean 416.1
Std Dev 0
pull1D
Entries 90
Mean 0.01123
Std Dev 0.8155

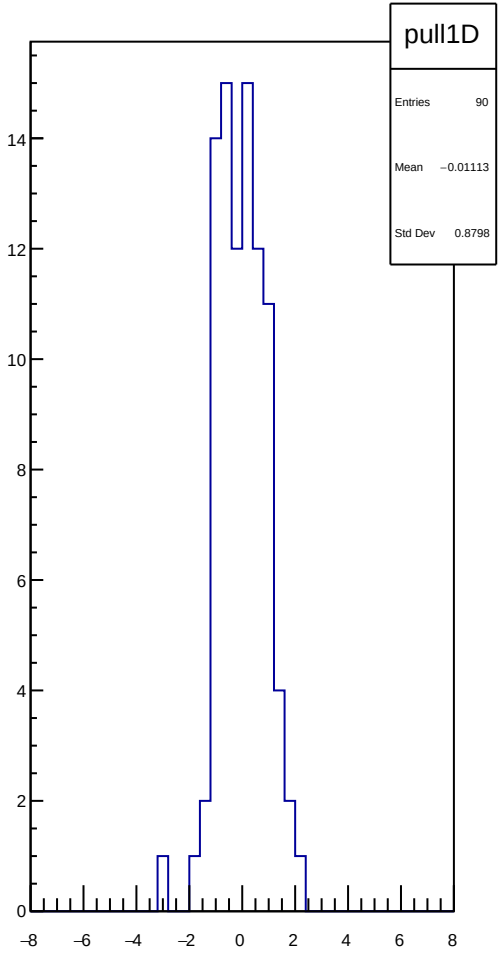

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.06 / 89
p0 0.6385 ± 1.034
pull
Entries 90
Mean −5.242
Std Dev 10.82

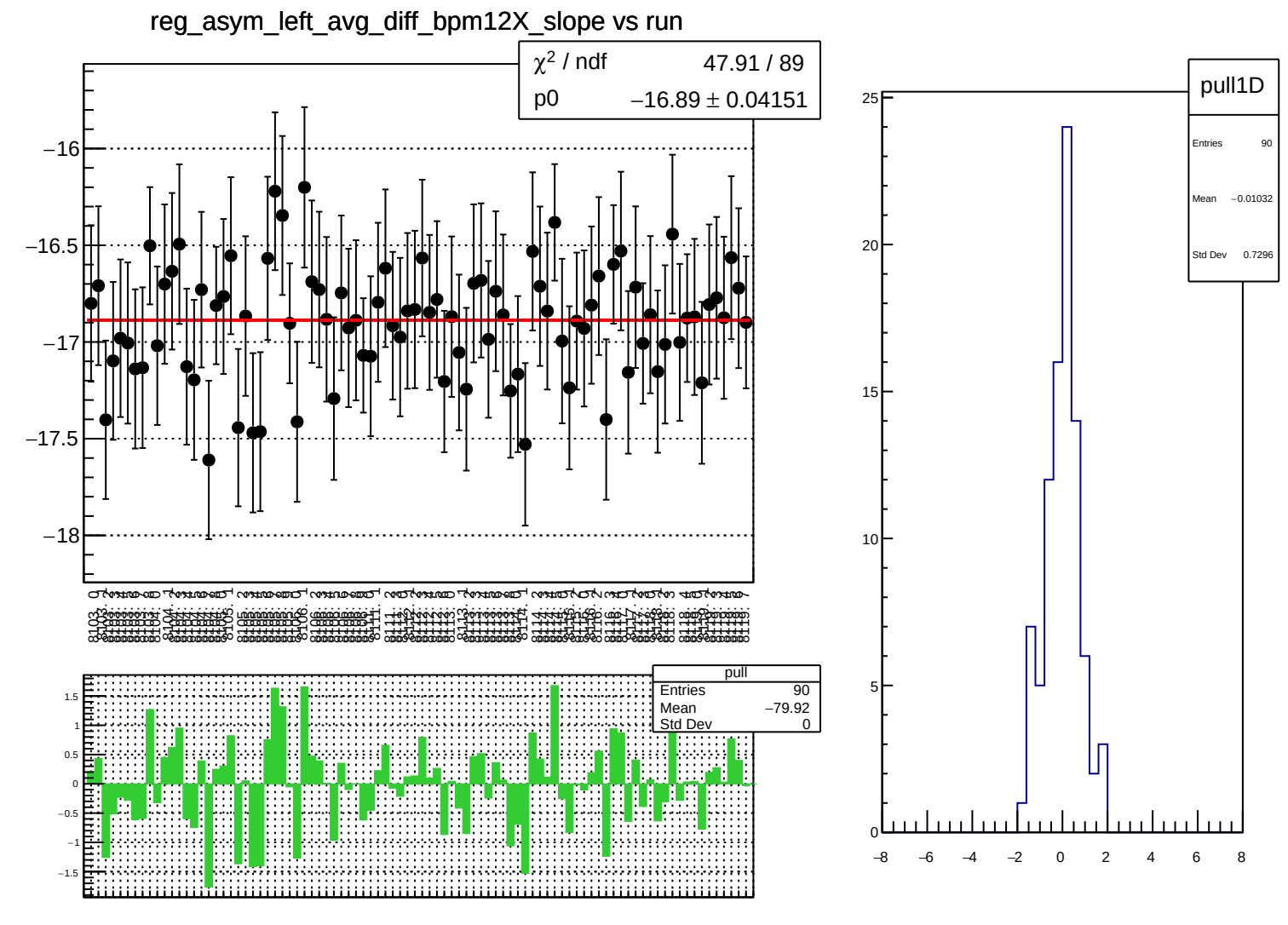

pull1D
Entries 90
Mean 0.01052
Std Dev 0.8632

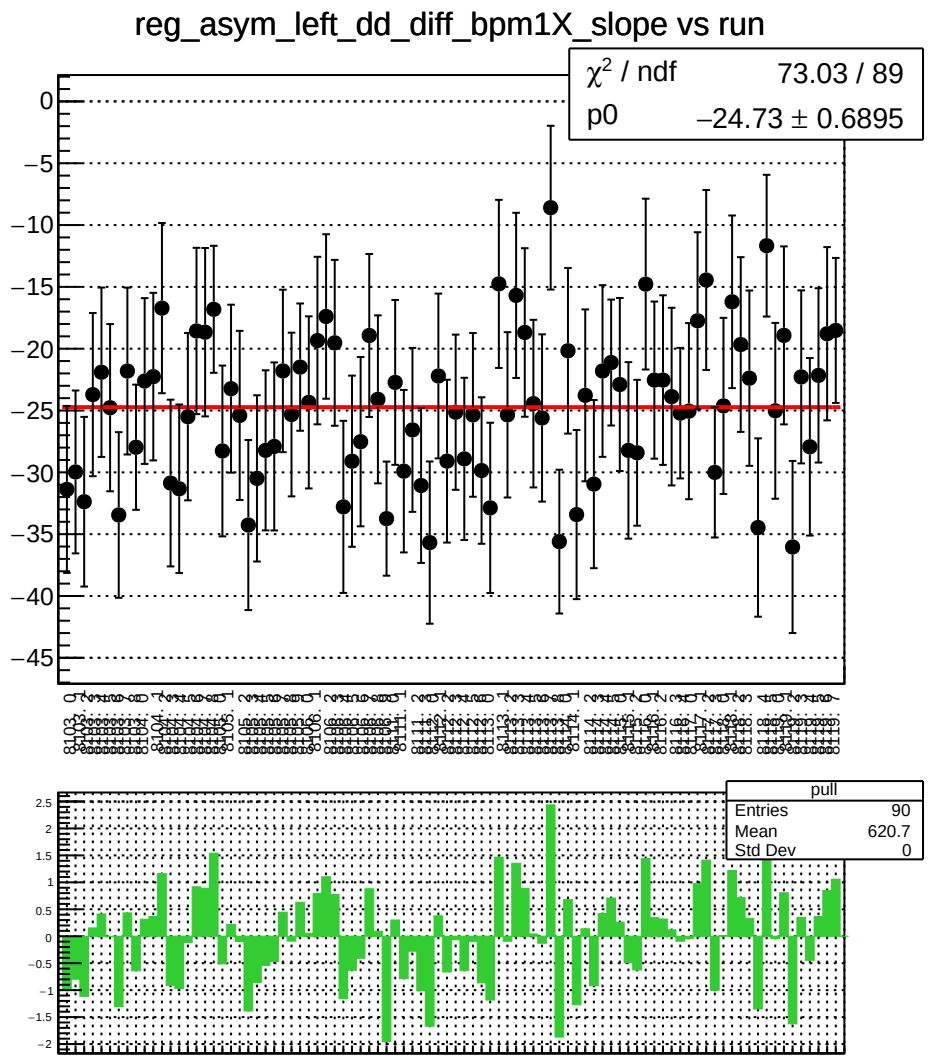

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.37 / 89
p0 −7.325 ± 0.6542
pull
Entries 90
Mean 434.3
Std Dev 0

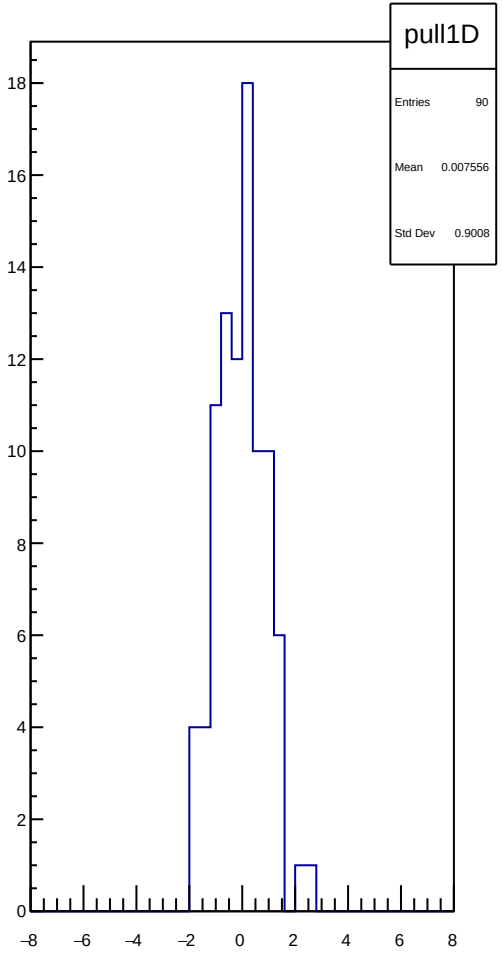

pull1D
Entries 90
Mean −0.01075
Std Dev 0.7983

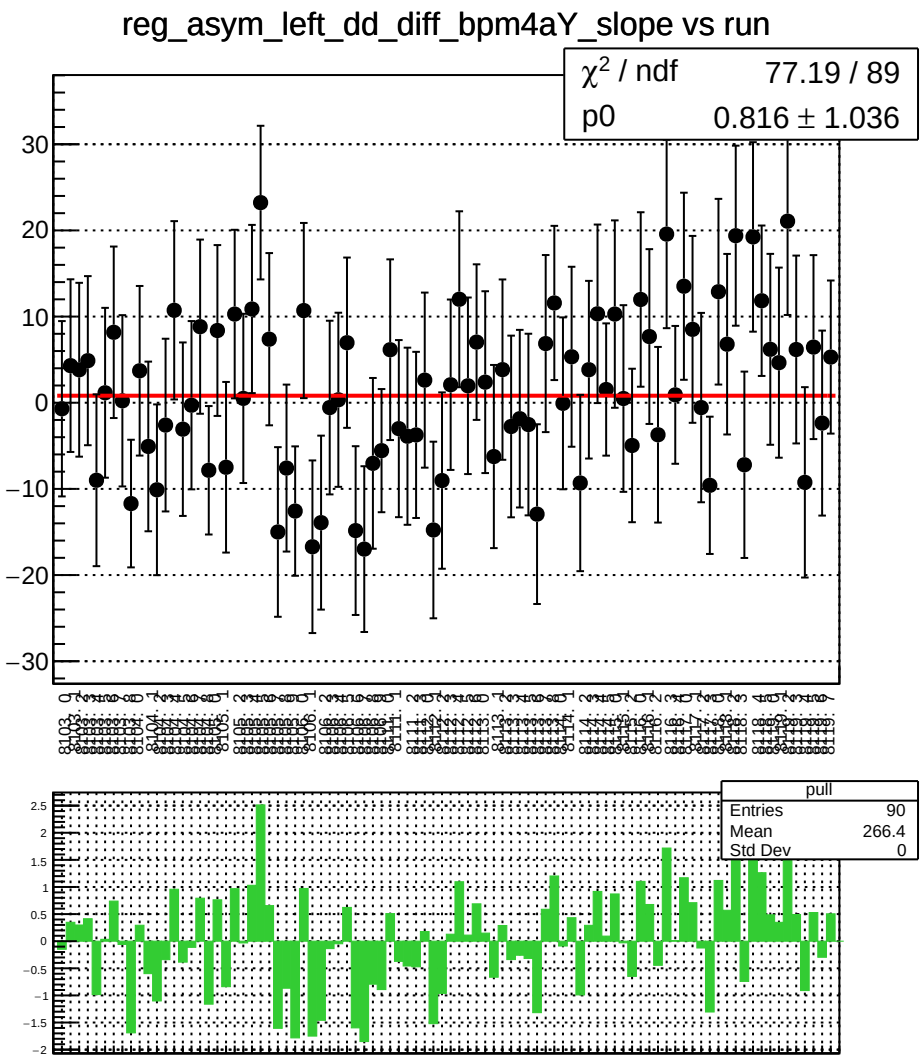

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 69.67 / 89
p0 7.702 ± 1.105
pull
Entries 90
Mean −50.44
Std Dev 0

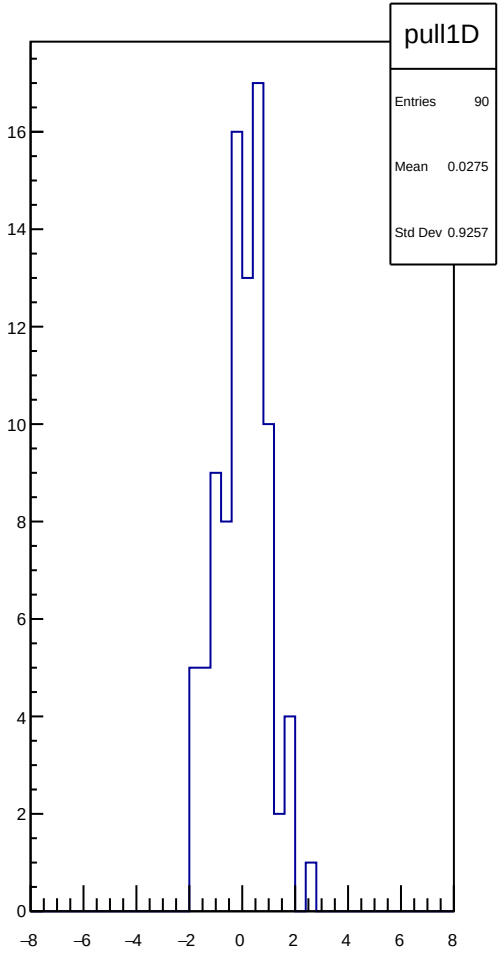

pull1D
Entries 90
Mean −0.01113
Std Dev 0.8798

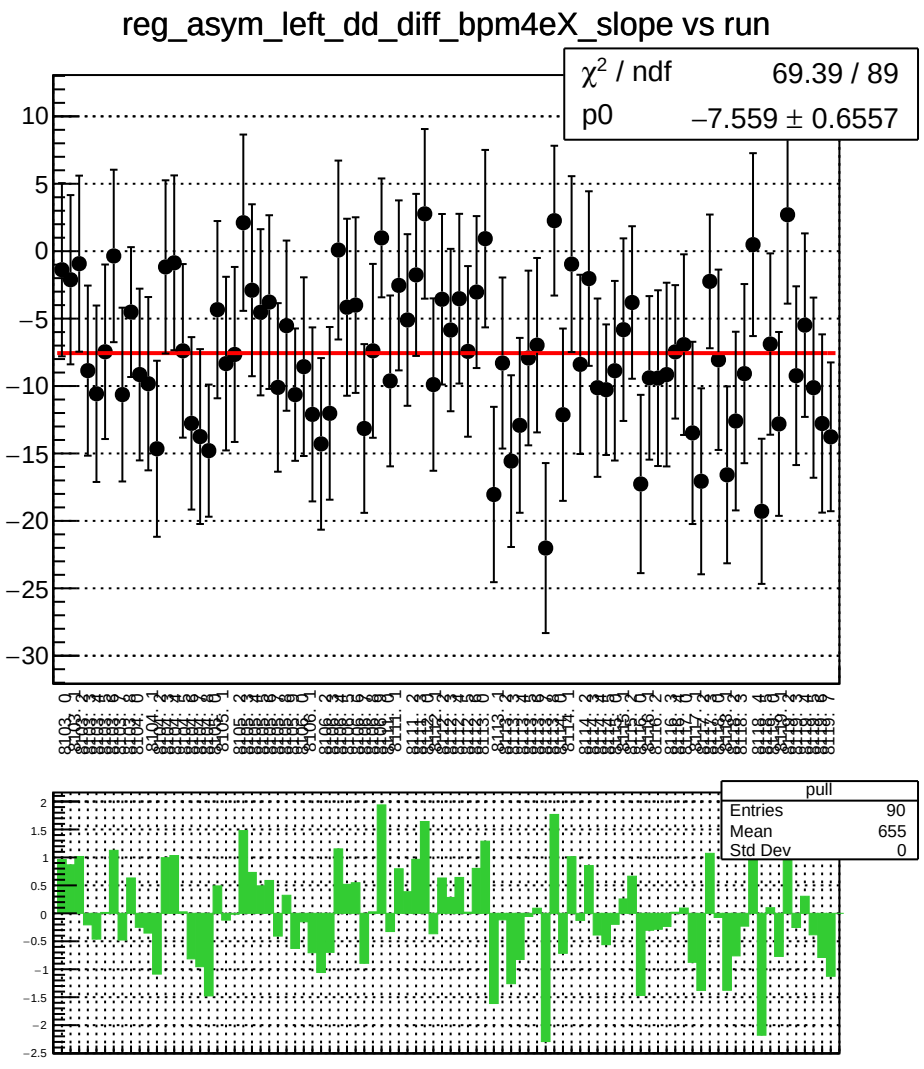

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 47.91 / 89
p0 −16.89 ± 0.04151
−16
−16.5
−17
−17.5
−18
pull
Entries 90
Mean −79.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.01032
Std Dev 0.7296
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

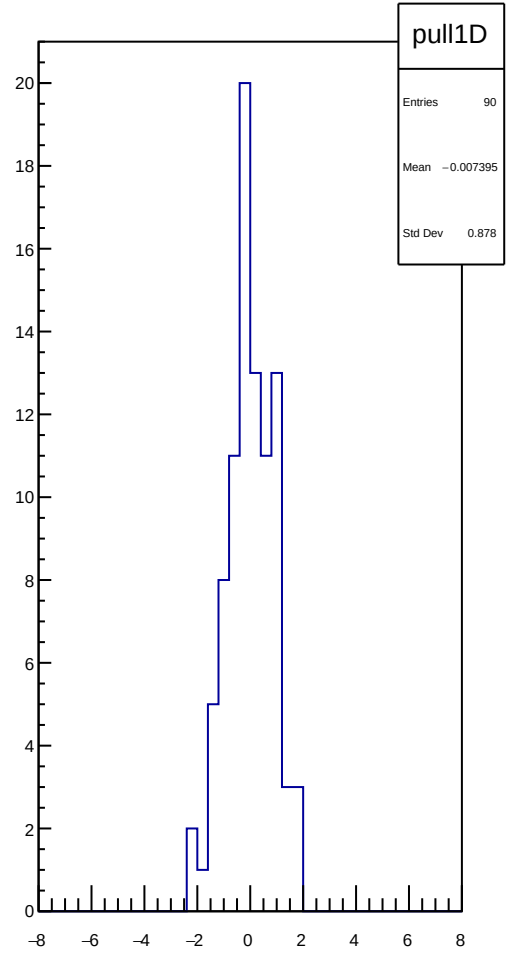

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 73.03 / 89
p0 −24.73 ± 0.6895
pull
Entries 90
Mean 620.7
Std Dev 0

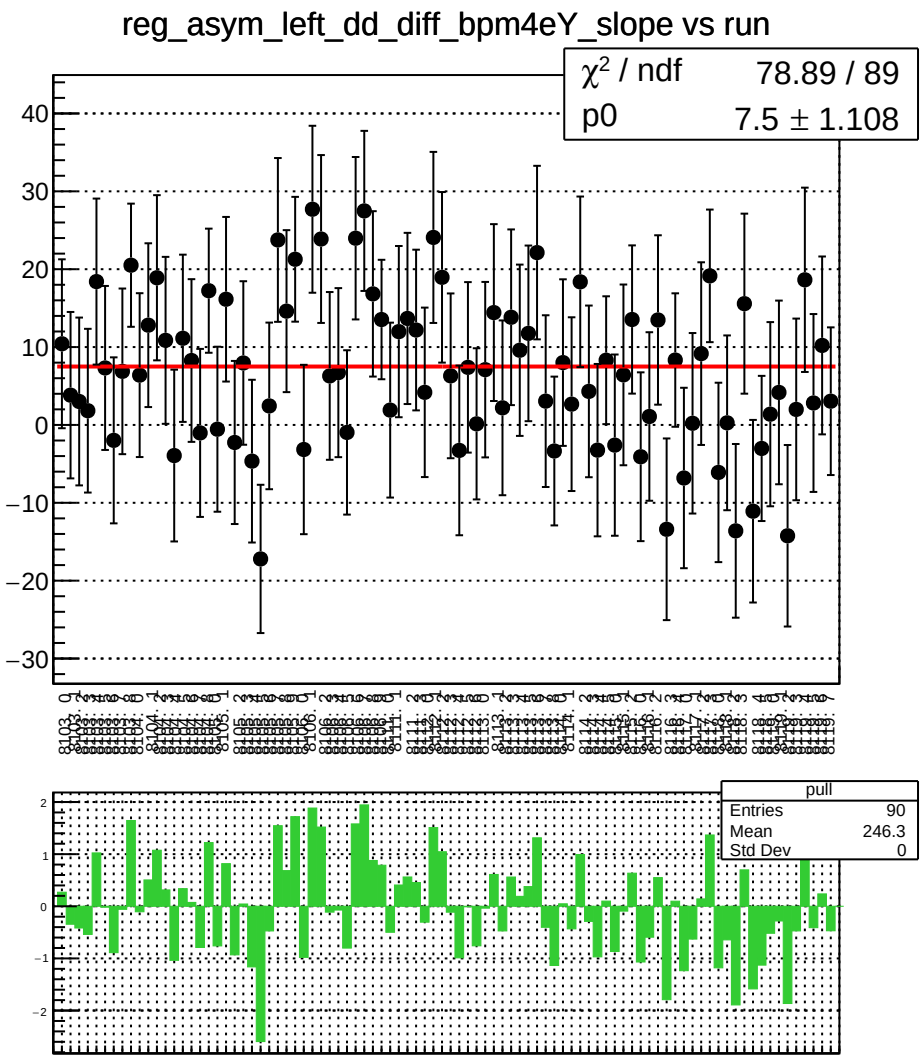

pull1D
Entries 90
Mean 0.007556
Std Dev 0.9008

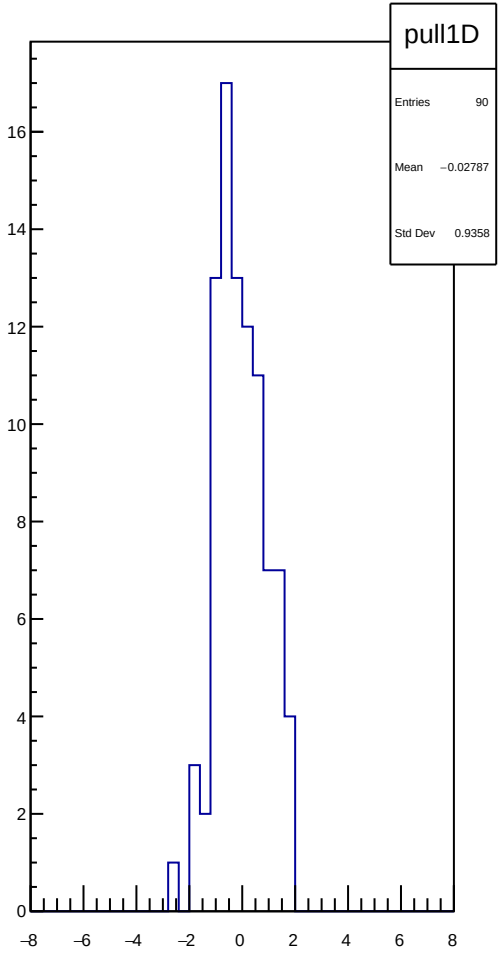

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.19 / 89
p0 0.816 ± 1.036
pull
Entries 90
Mean 266.4
Std Dev 0

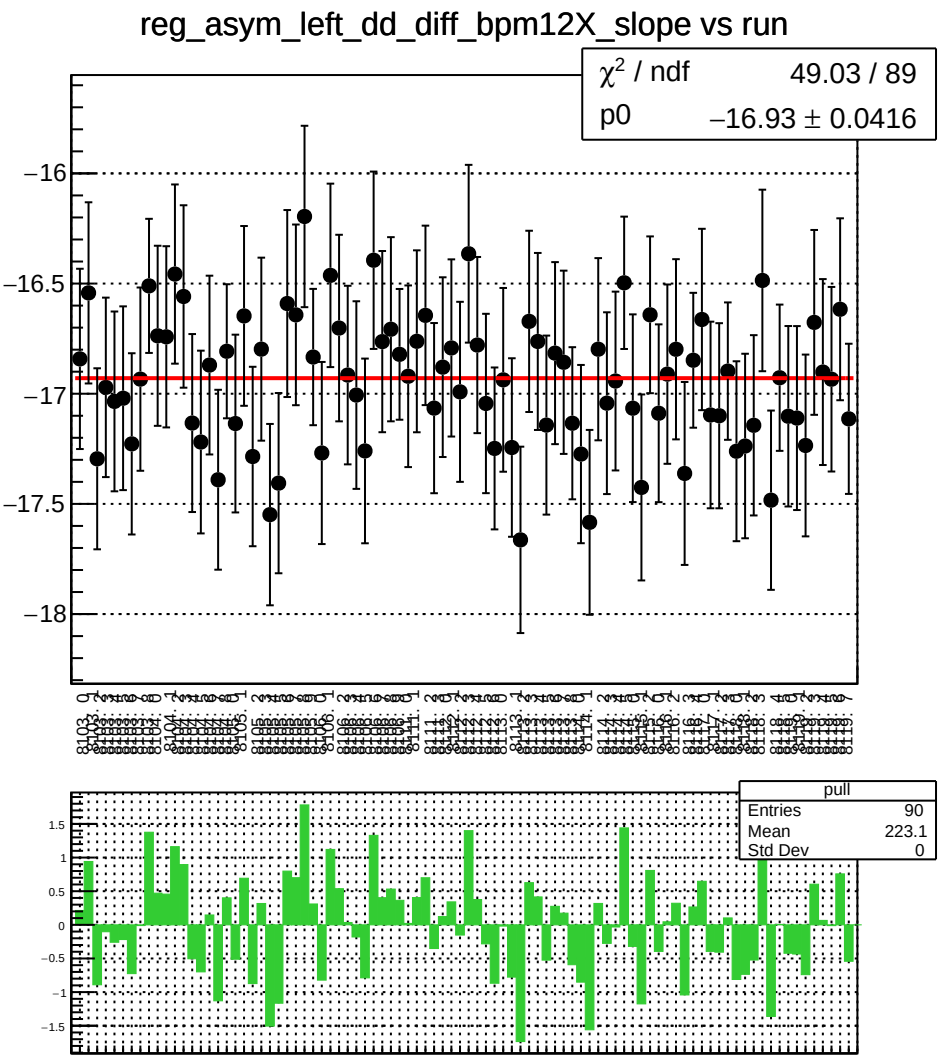

pull1D
Entries 90
Mean 0.0275
Std Dev 0.9257

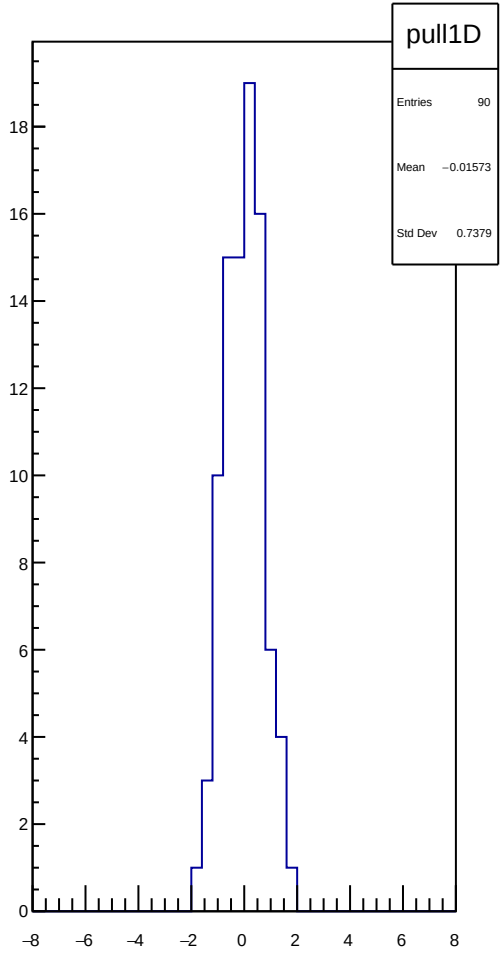

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 69.39 / 89
p0 −7.559 ± 0.6557
pull
Entries 90
Mean 655
Std Dev 0

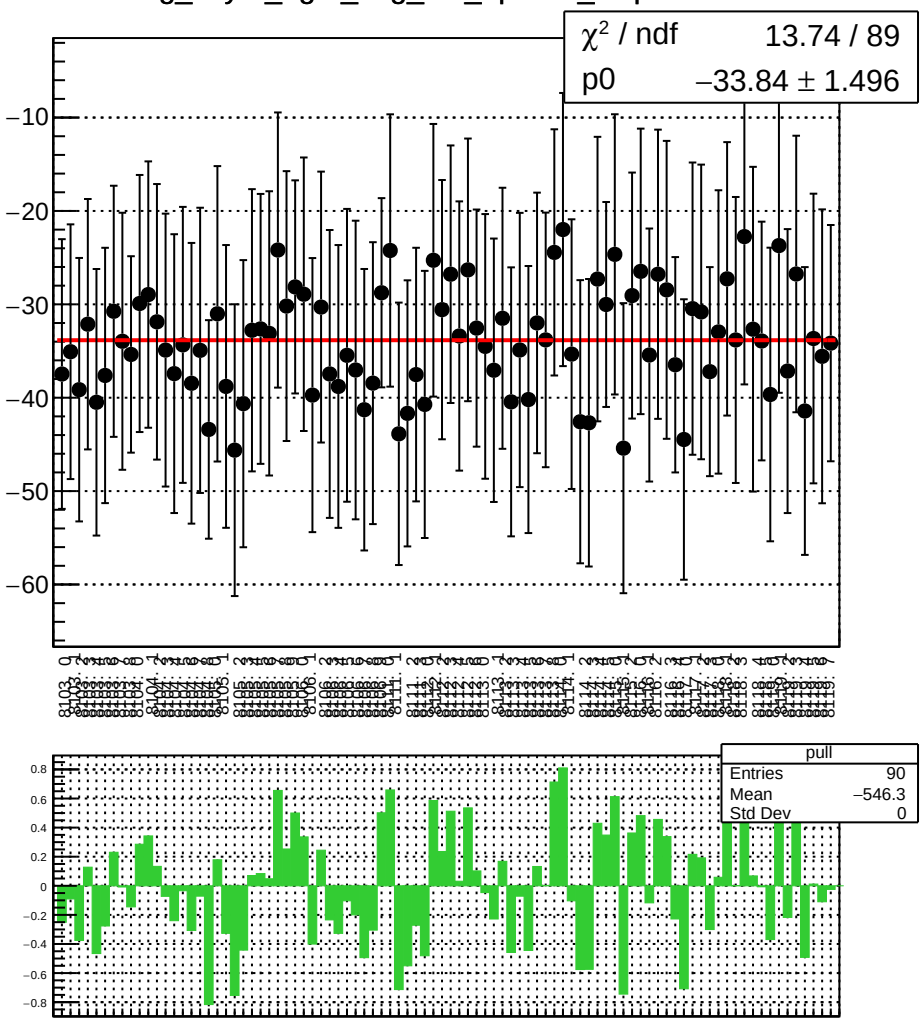

pull1D
Entries 90
Mean −0.007395
Std Dev 0.878

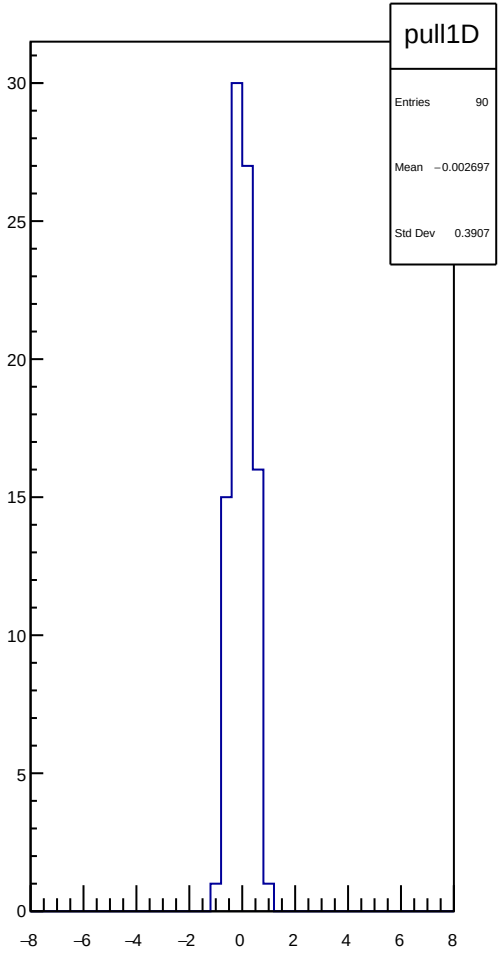

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.89 / 89
p0 7.5 ± 1.108
pull
Entries 90
Mean 246.3
Std Dev 0

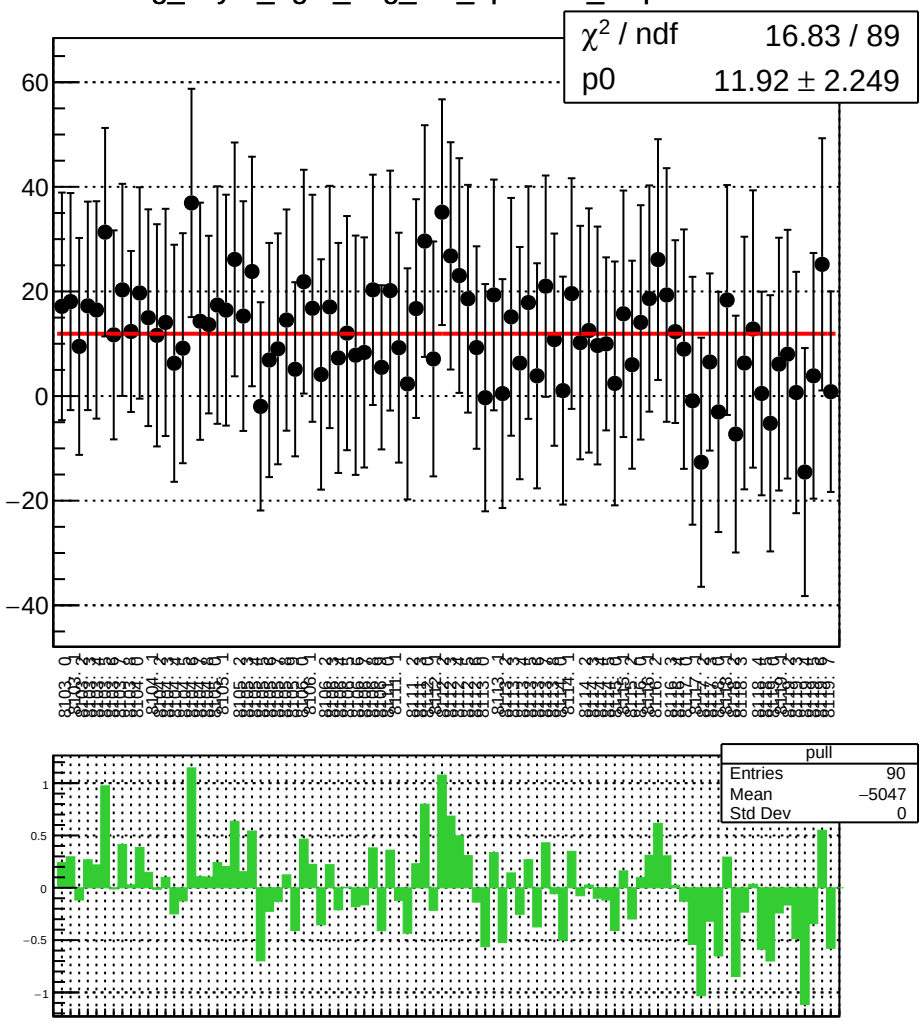

pull1D
Entries 90
Mean −0.02787
Std Dev 0.9358

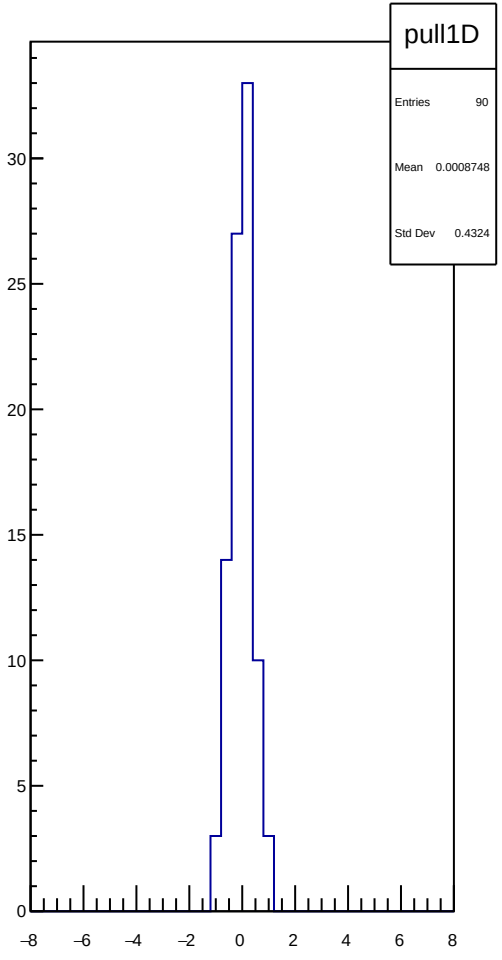

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 49.03 / 89
p0 −16.93 ± 0.0416
−16
−16.5
−17
−17.5
−18
pull
Entries 90
Mean 223.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

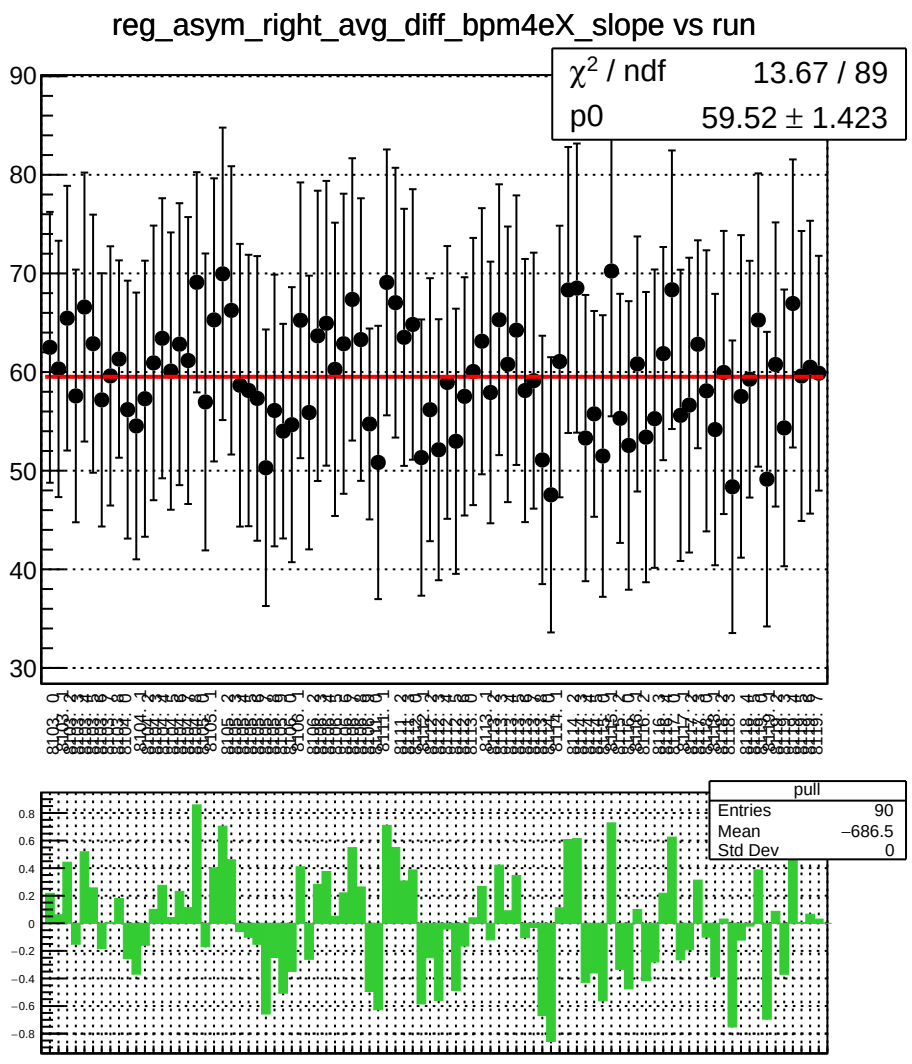

pull1D
Entries 90
Mean −0.01573
Std Dev 0.7379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

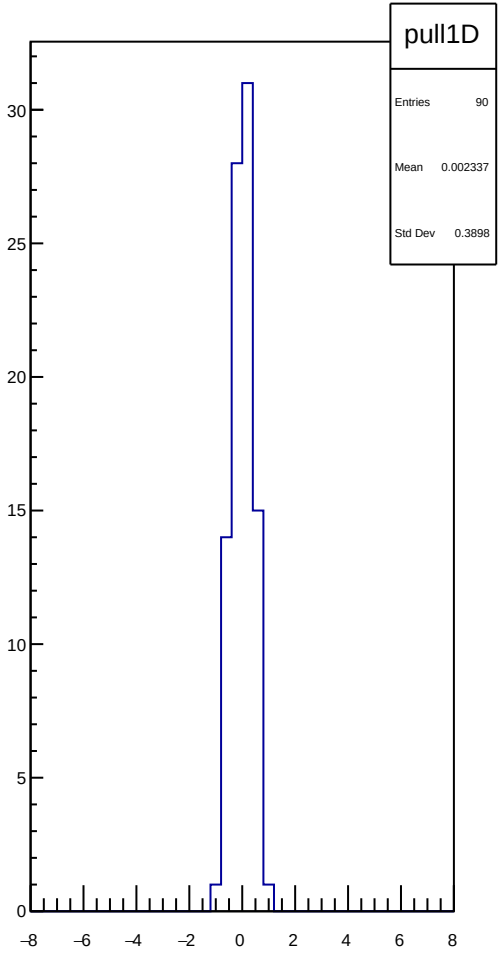

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 13.74 / 89
p0 −33.84 ± 1.496
pull
Entries 90
Mean −546.3
Std Dev 0

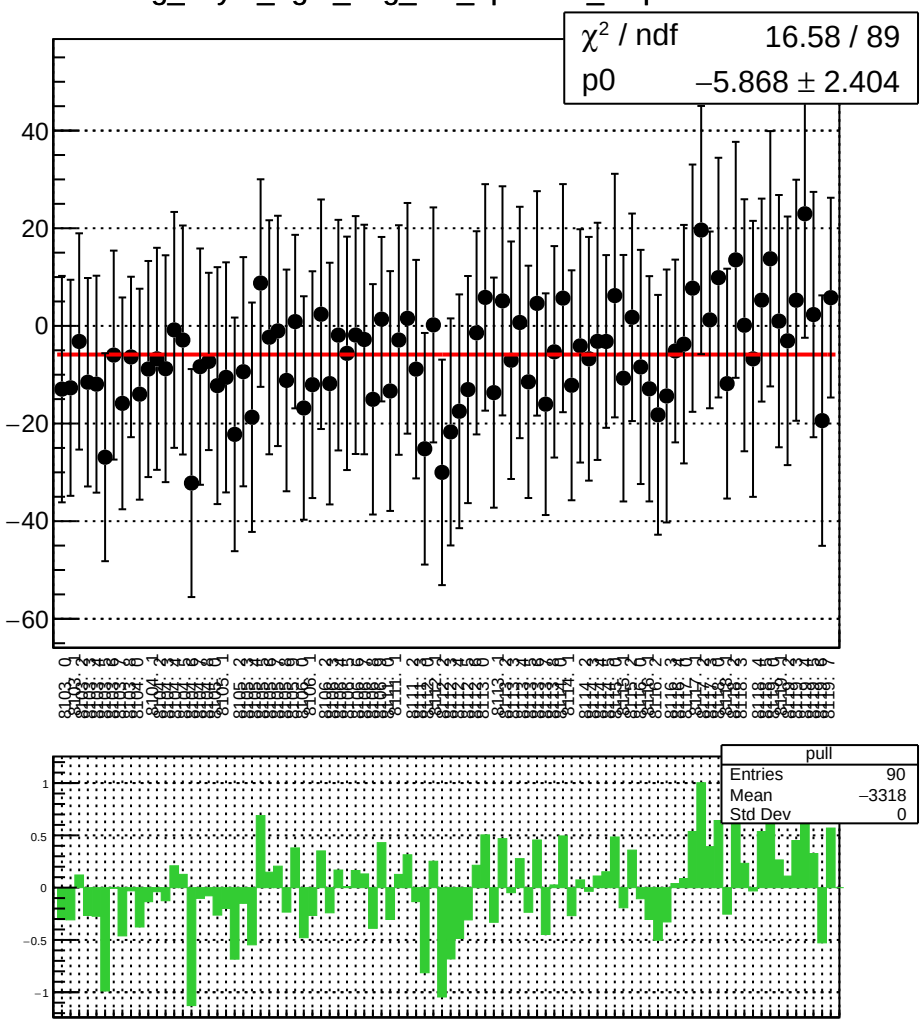

pull1D
Entries 90
Mean −0.002697
Std Dev 0.3907

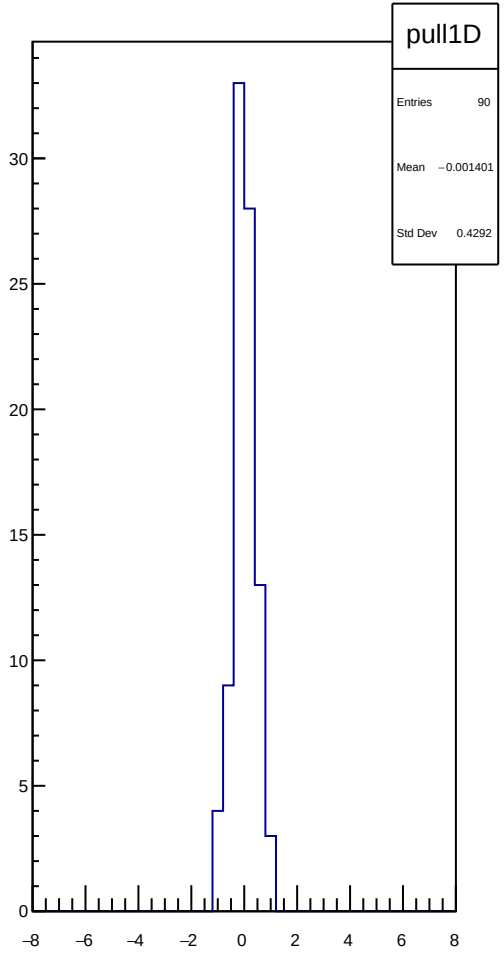

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.83 / 89
p0 11.92 ± 2.249
pull
Entries 90
Mean −5047
Std Dev 0

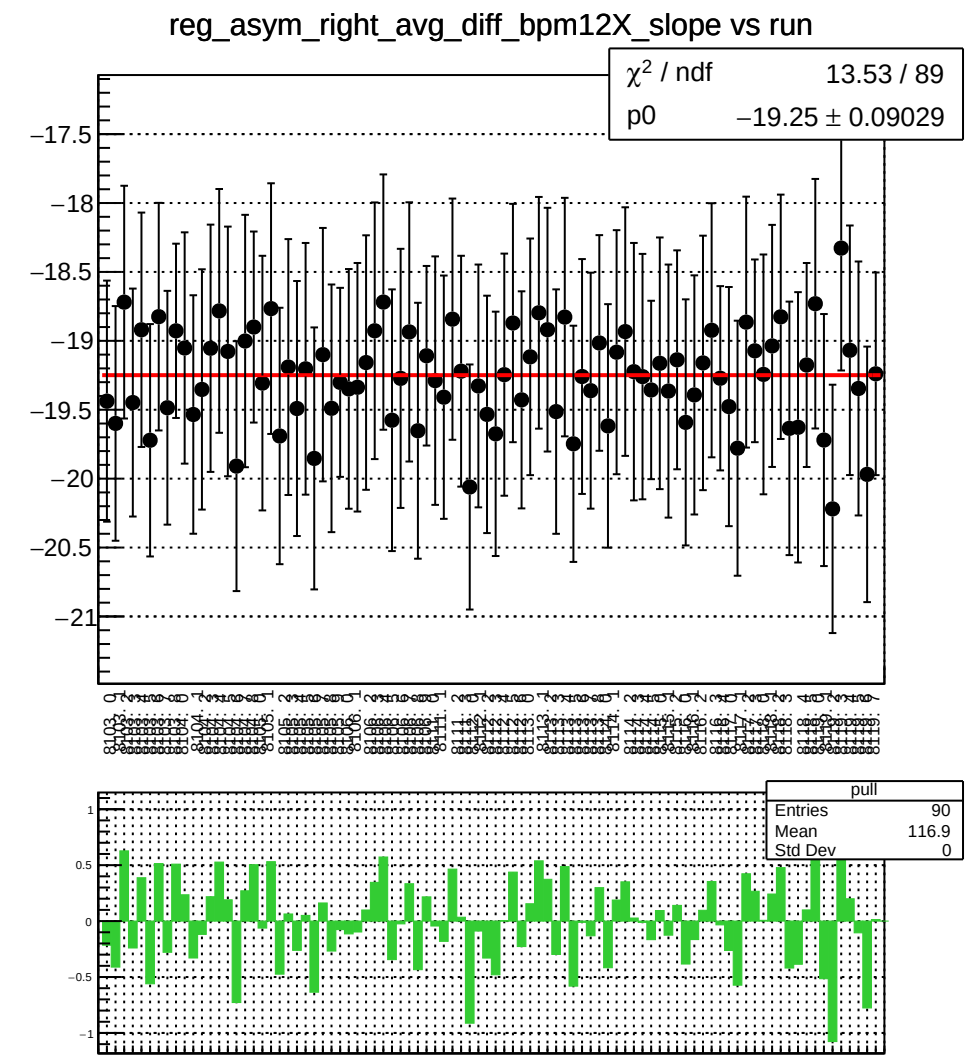

pull1D
Entries 90
Mean 0.0008748
Std Dev 0.4324

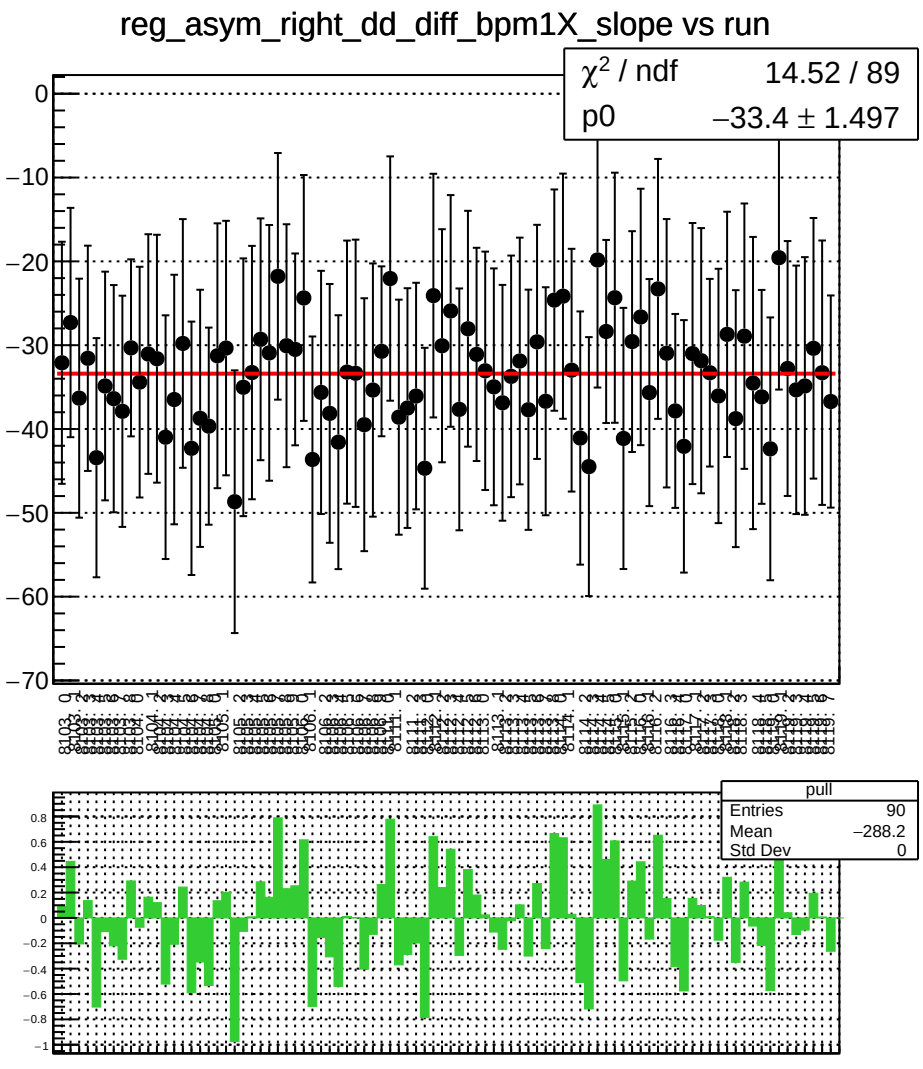

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.67 / 89
p0 59.52 ± 1.423
pull
Entries 90
Mean −686.5
Std Dev 0

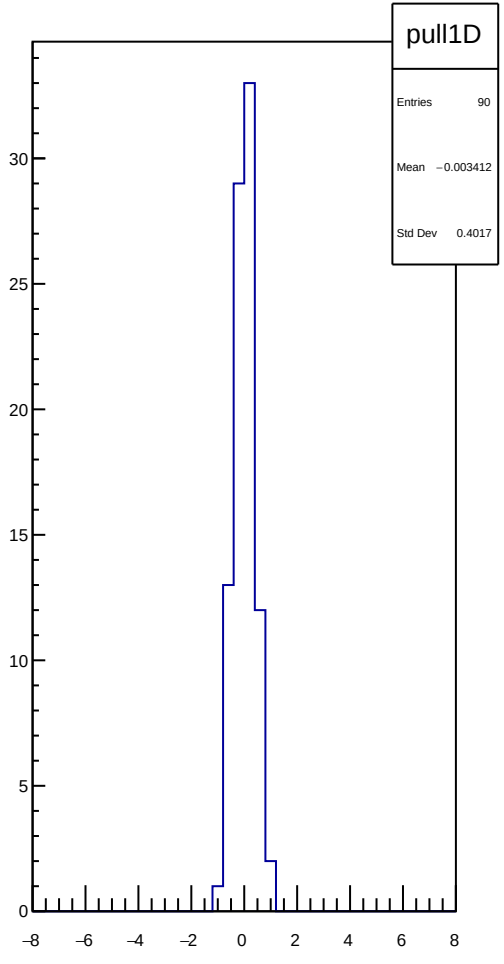

pull1D
Entries 90
Mean 0.002337
Std Dev 0.3898

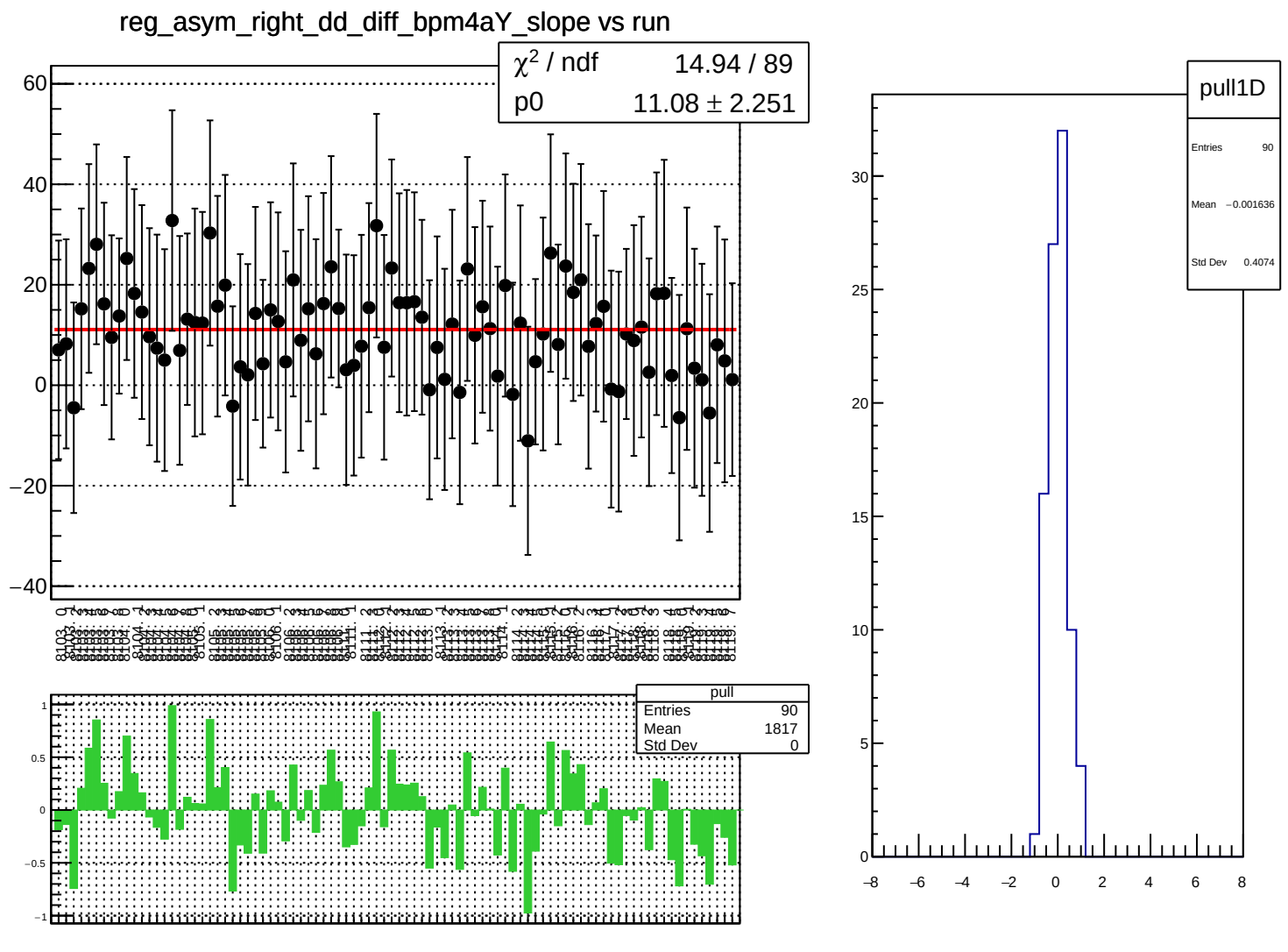

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.58 / 89
p0 −5.868 ± 2.404
40
20
0
−20
−40
−60
pull
Entries 90
Mean −3318
Std Dev 0
1
0.5
0
−0.5
−1

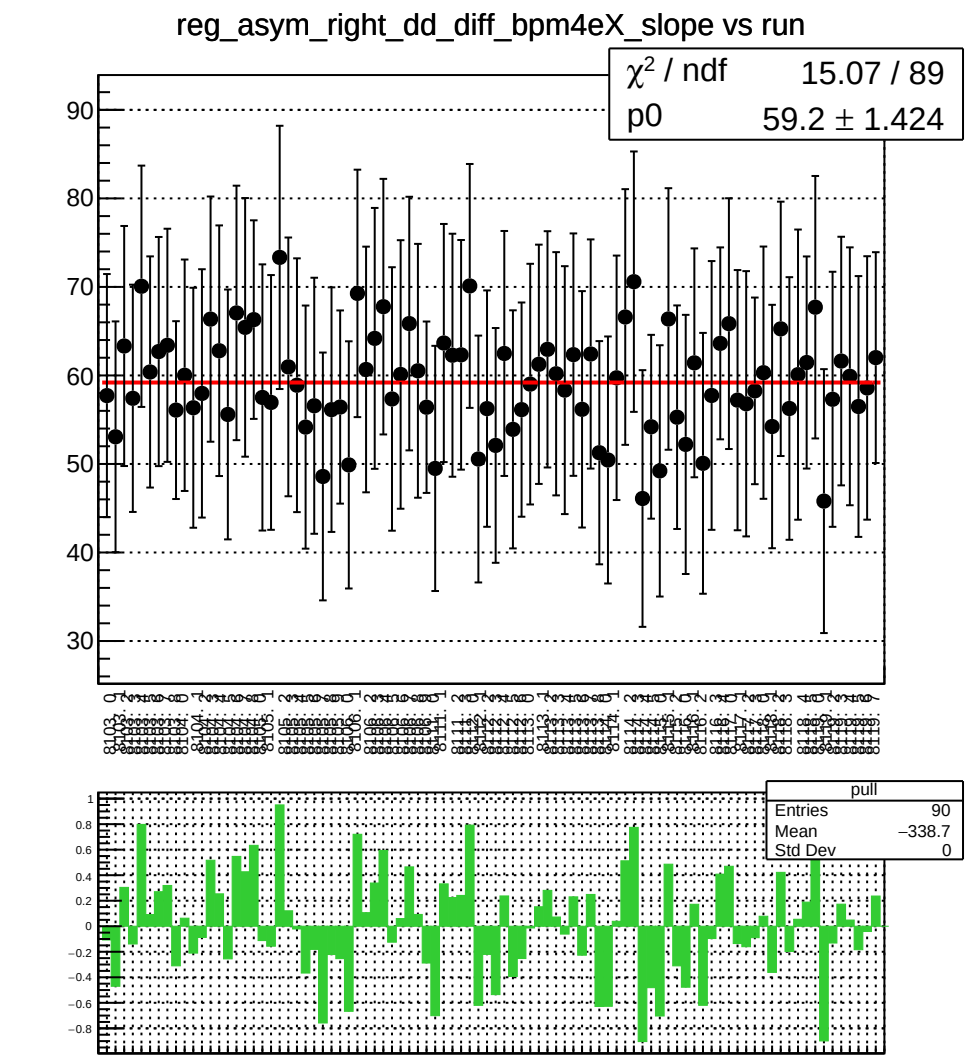

pull1D
Entries 90
Mean −0.001401
Std Dev 0.4292
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

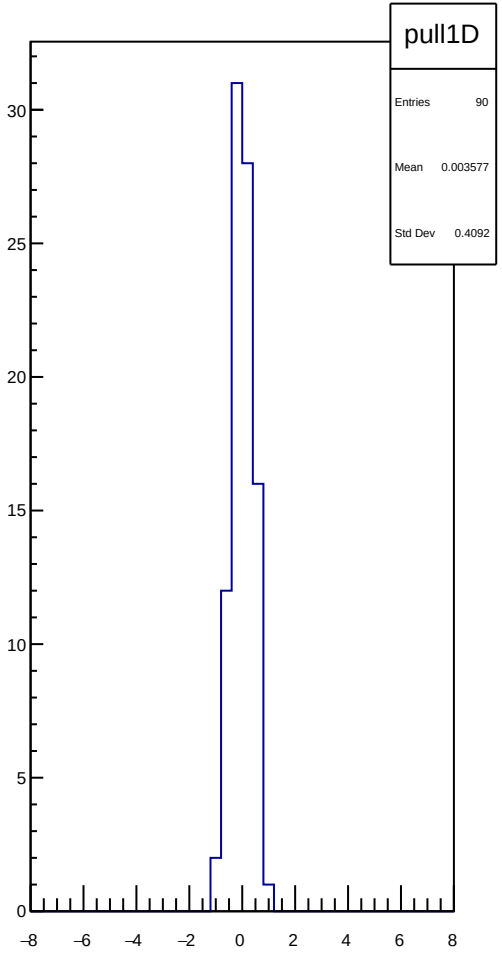

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 13.53 / 89
p0 −19.25 ± 0.09029
pull
Entries 90
Mean 116.9
Std Dev 0
pull1D
Entries 90
Mean −0.007135
Std Dev 0.3877

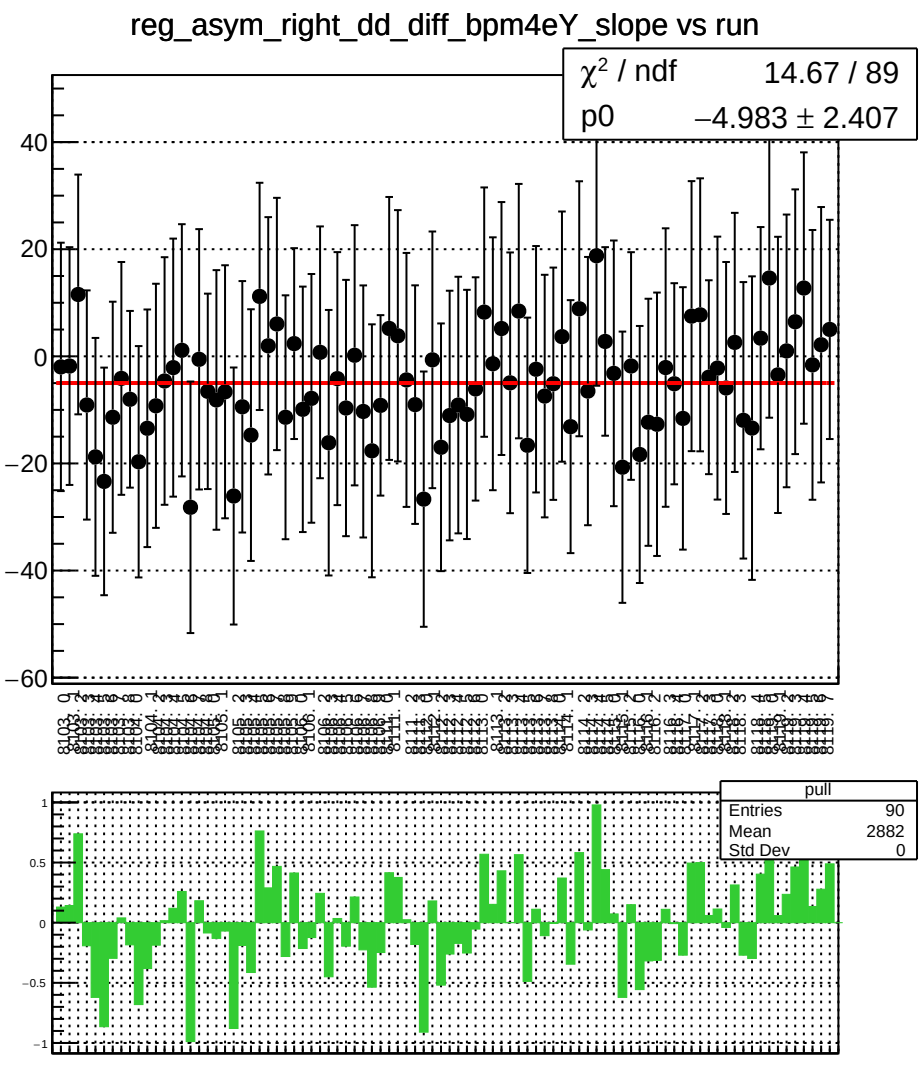

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 14.52 / 89
p0 −33.4 ± 1.497
pull
Entries 90
Mean −288.2
Std Dev 0

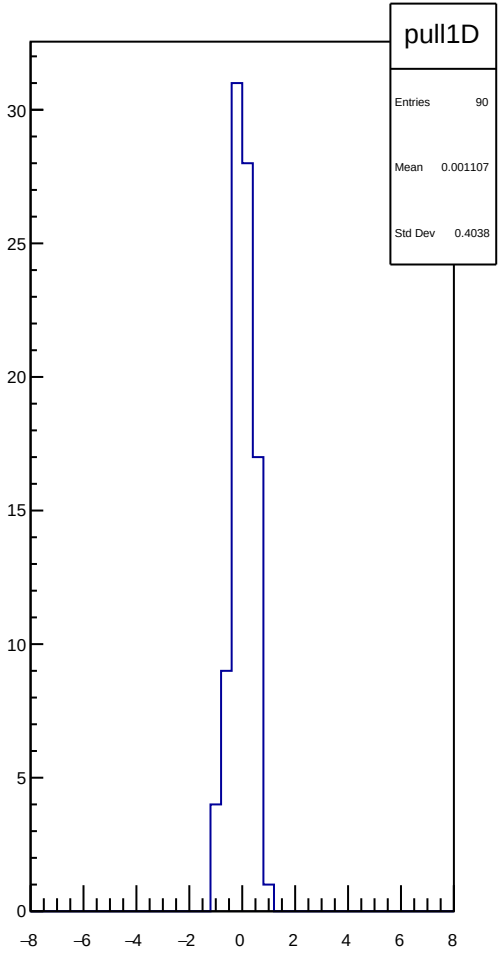

pull1D
Entries 90
Mean −0.003412
Std Dev 0.4017

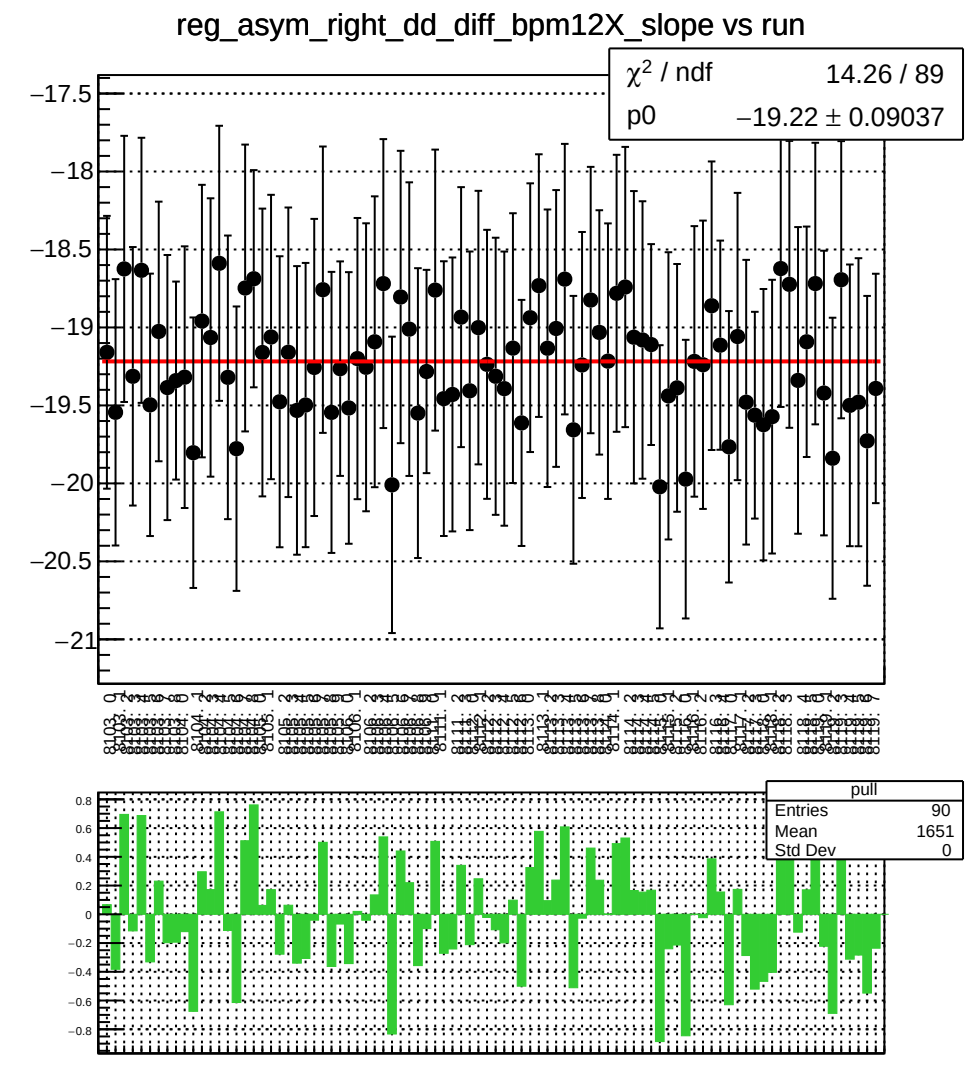

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.94 / 89
p0 11.08 ± 2.251
pull
Entries 90
Mean 1817
Std Dev 0
pull1D
Entries 90
Mean −0.001636
Std Dev 0.4074

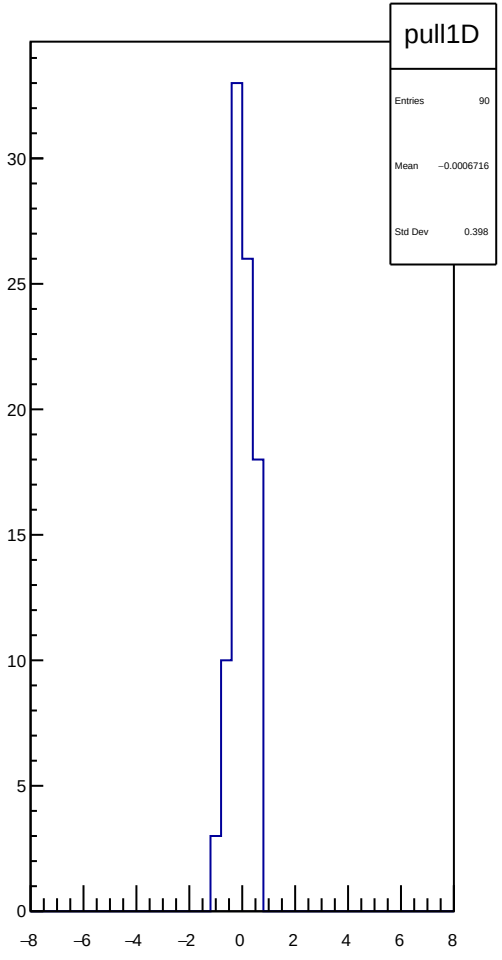

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.07 / 89
p0 59.2 ± 1.424
pull
Entries 90
Mean −338.7
Std Dev 0

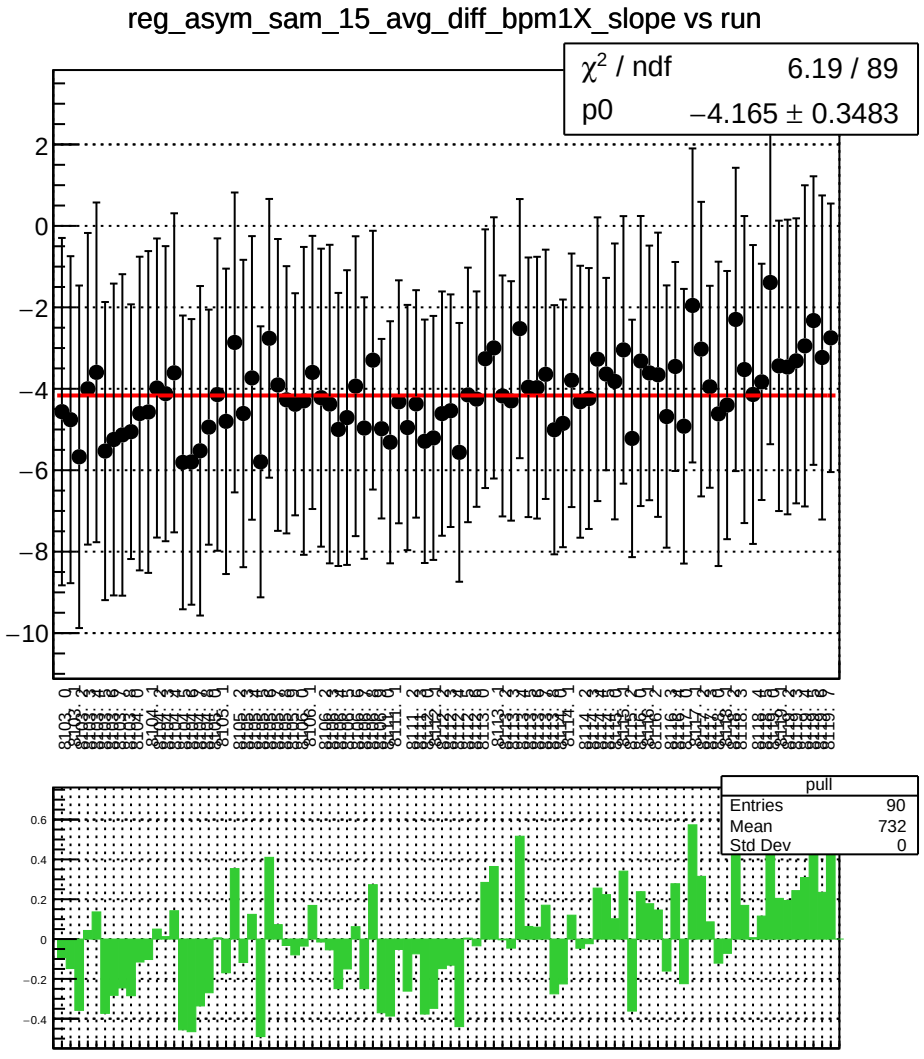

pull1D
Entries 90
Mean 0.003577
Std Dev 0.4092

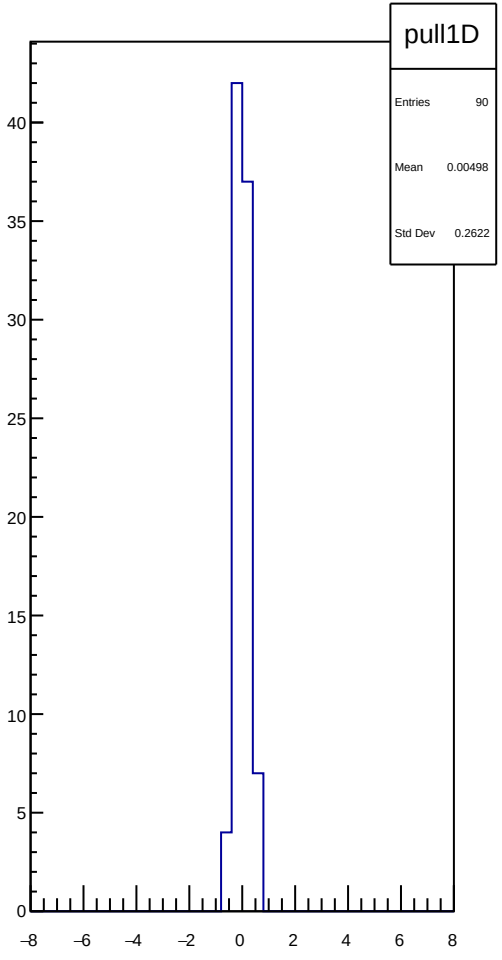

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.67 / 89
p0 −4.983 ± 2.407
pull
Entries 90
Mean 2882
Std Dev 0

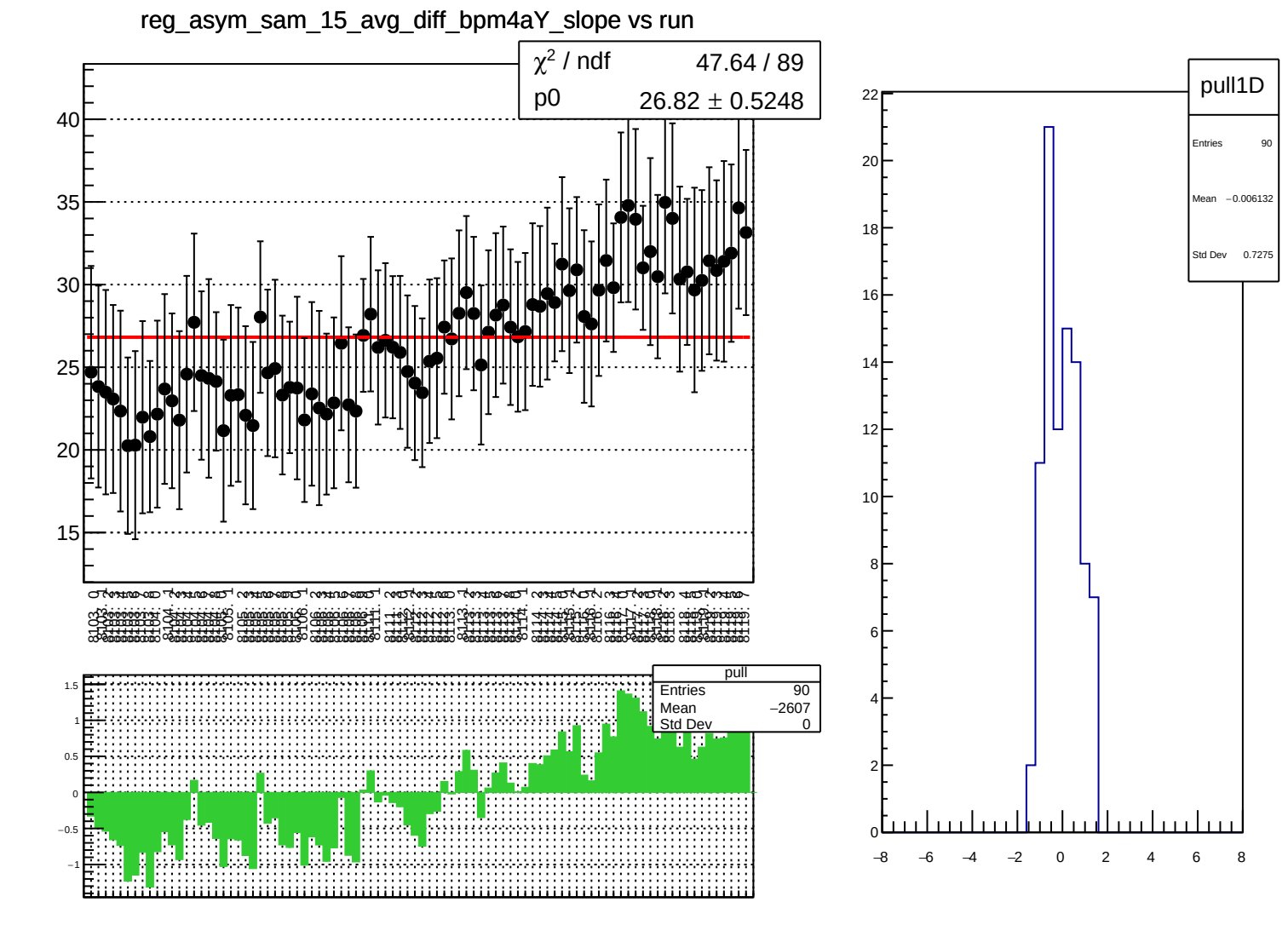

pull1D
Entries 90
Mean 0.001107
Std Dev 0.4038

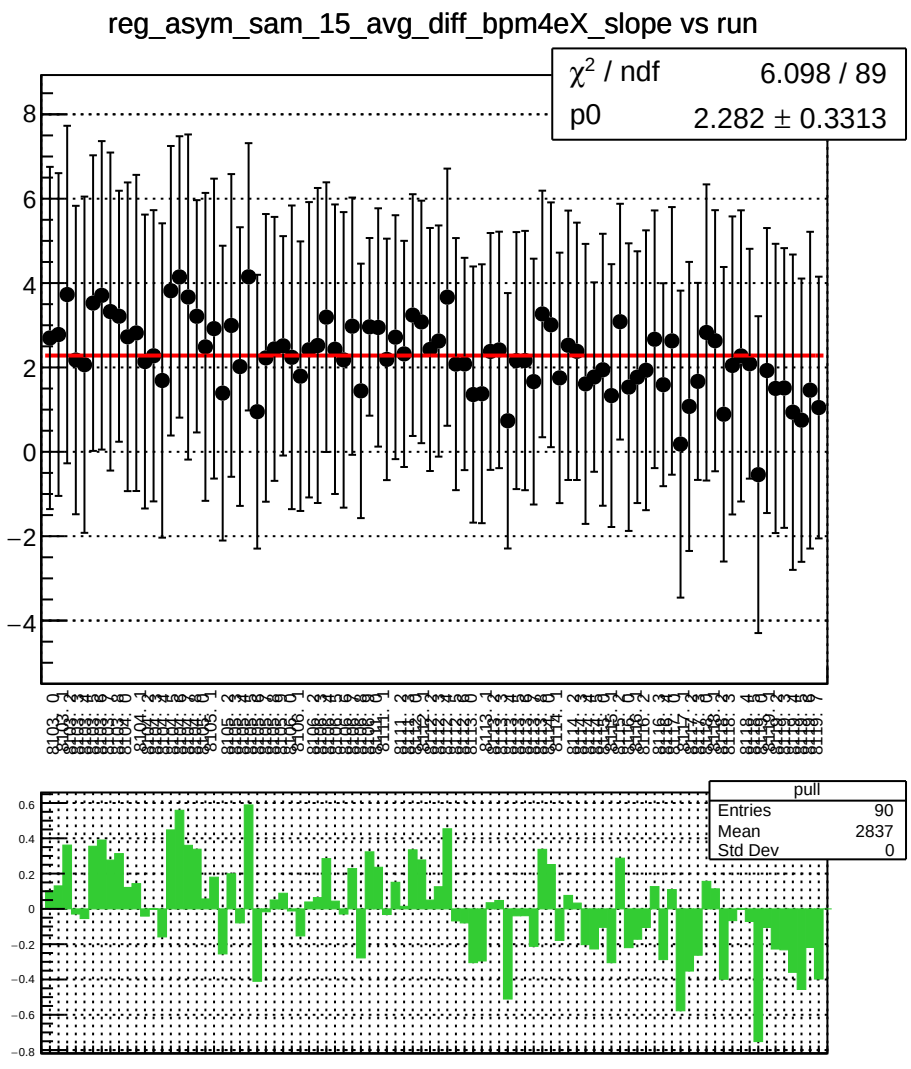

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 14.26 / 89
p0 −19.22 ± 0.09037
pull
Entries 90
Mean 1651
Std Dev 0

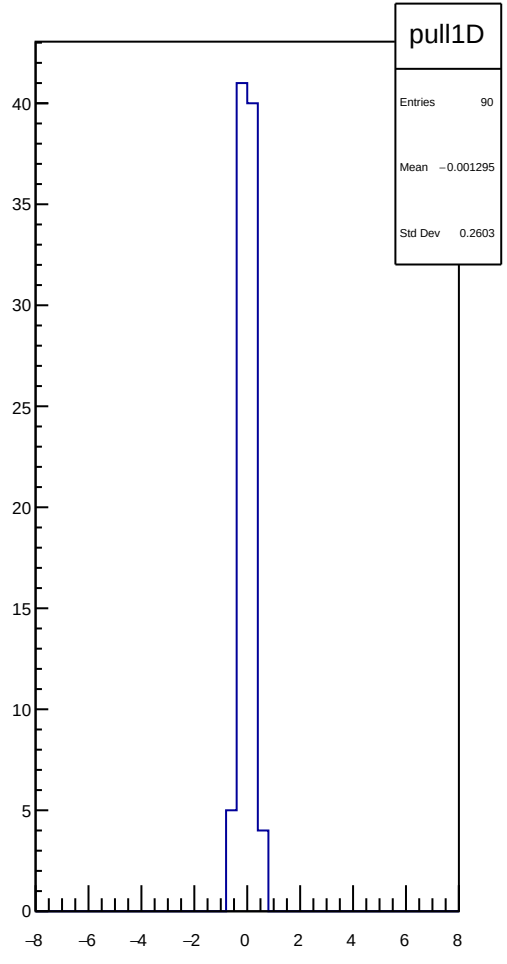

pull1D
Entries 90
Mean −0.0006716
Std Dev 0.398

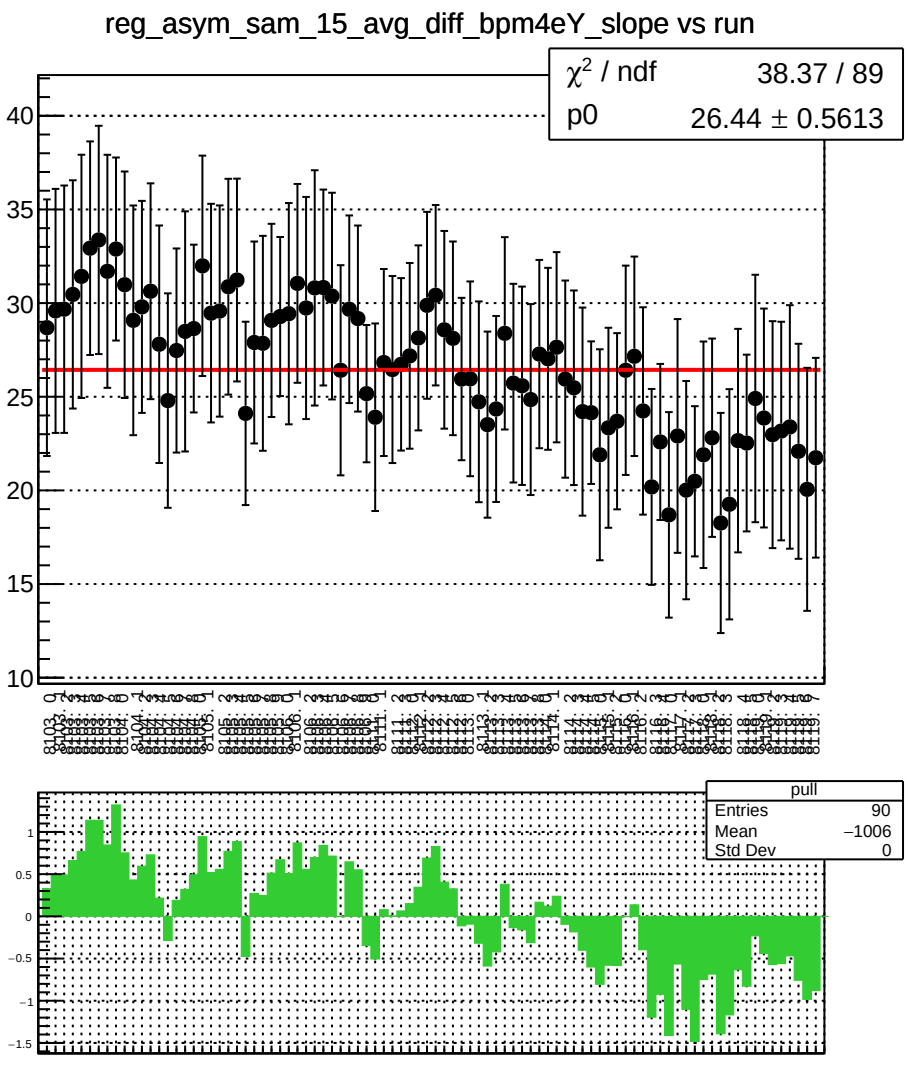

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 6.19 / 89
p0 −4.165 ± 0.3483
pull
Entries 90
Mean 732
Std Dev 0

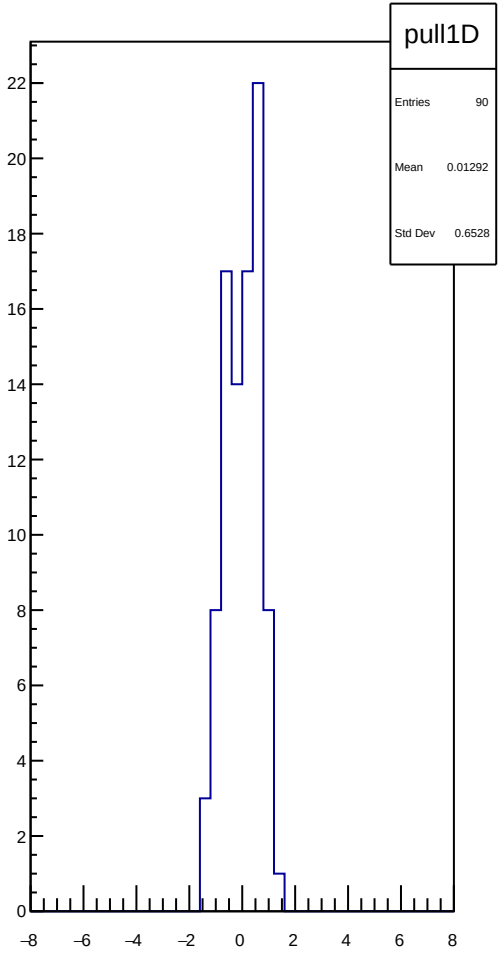

pull1D
Entries 90
Mean 0.00498
Std Dev 0.2622

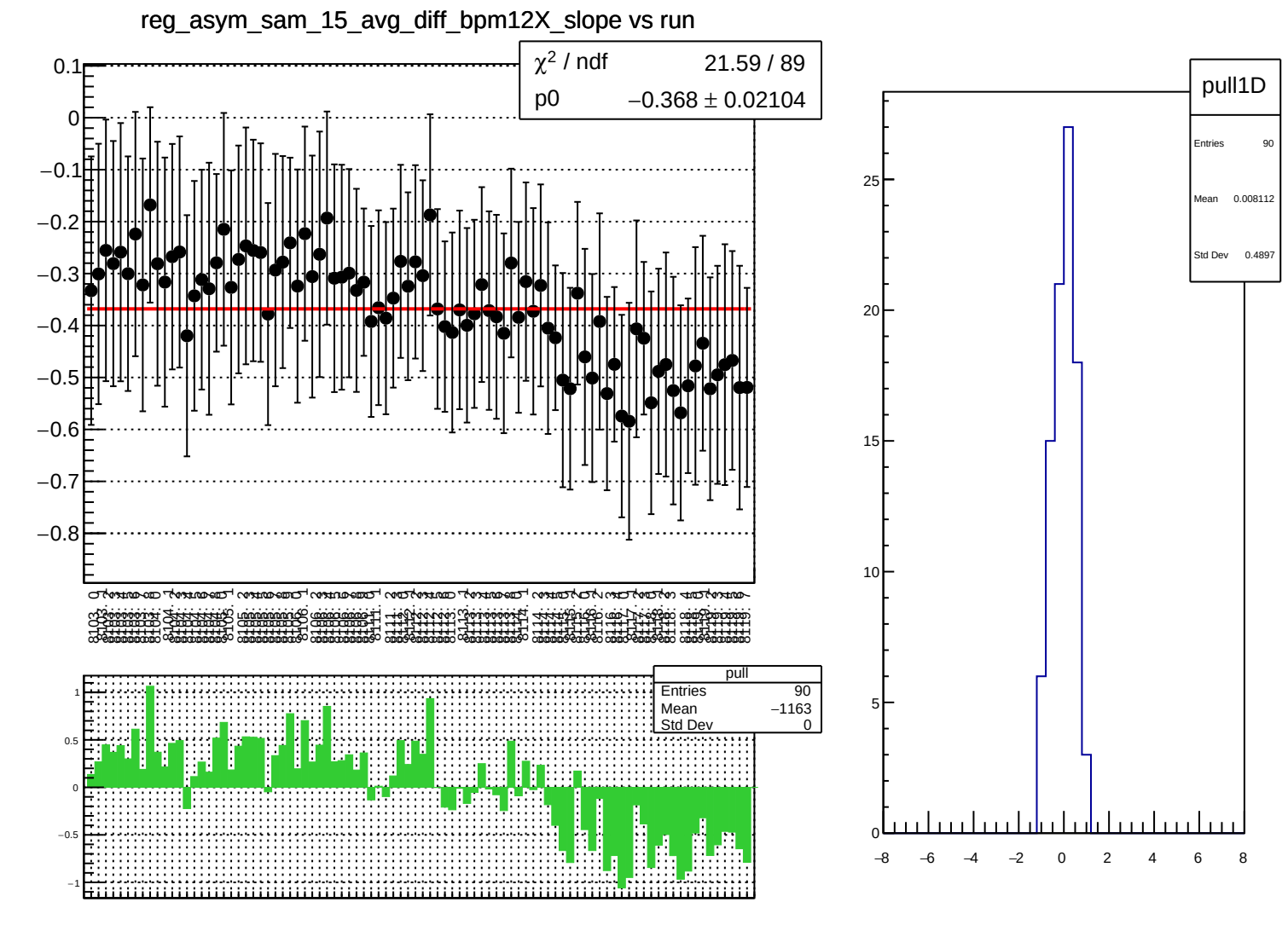

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.64 / 89
p0 26.82 ± 0.5248
pull
Entries 90
Mean −2607
Std Dev 0
pull1D
Entries 90
Mean −0.006132
Std Dev 0.7275

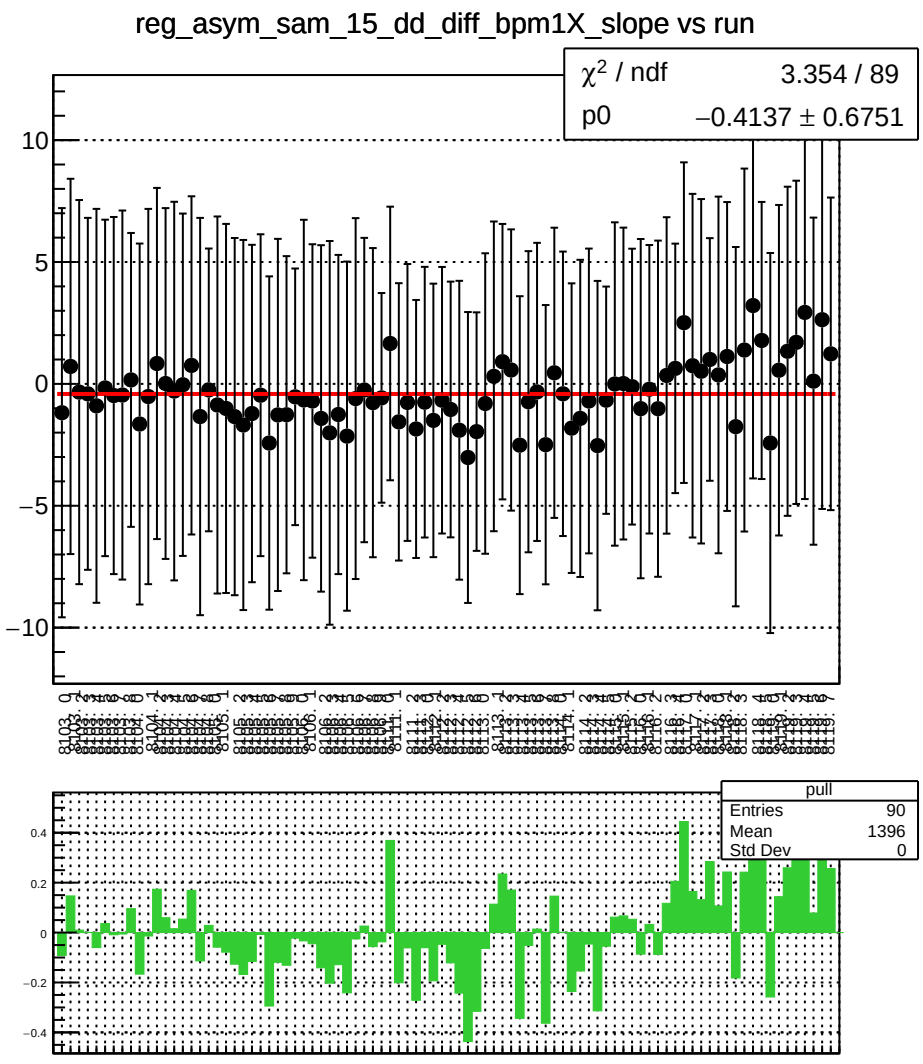

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.098 / 89
p0 2.282 ± 0.3313
pull
Entries 90
Mean 2837
Std Dev 0

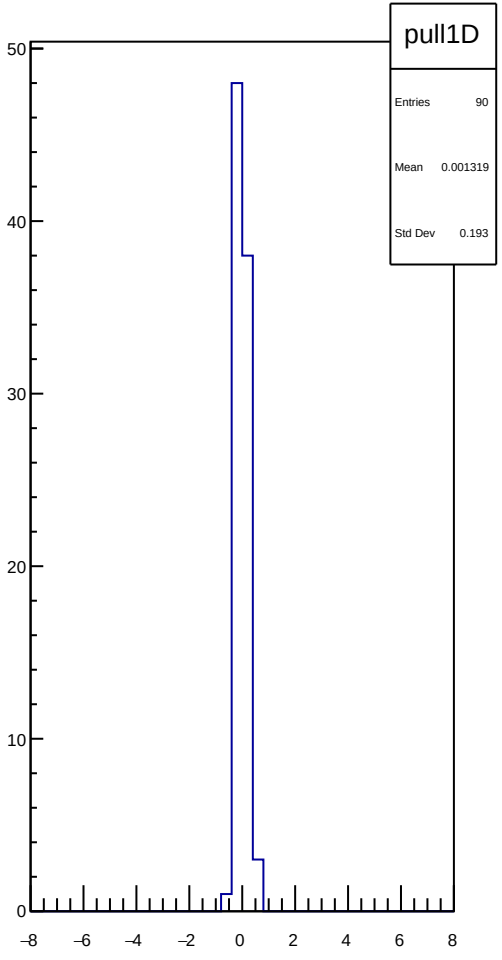

pull1D
Entries 90
Mean −0.001295
Std Dev 0.2603

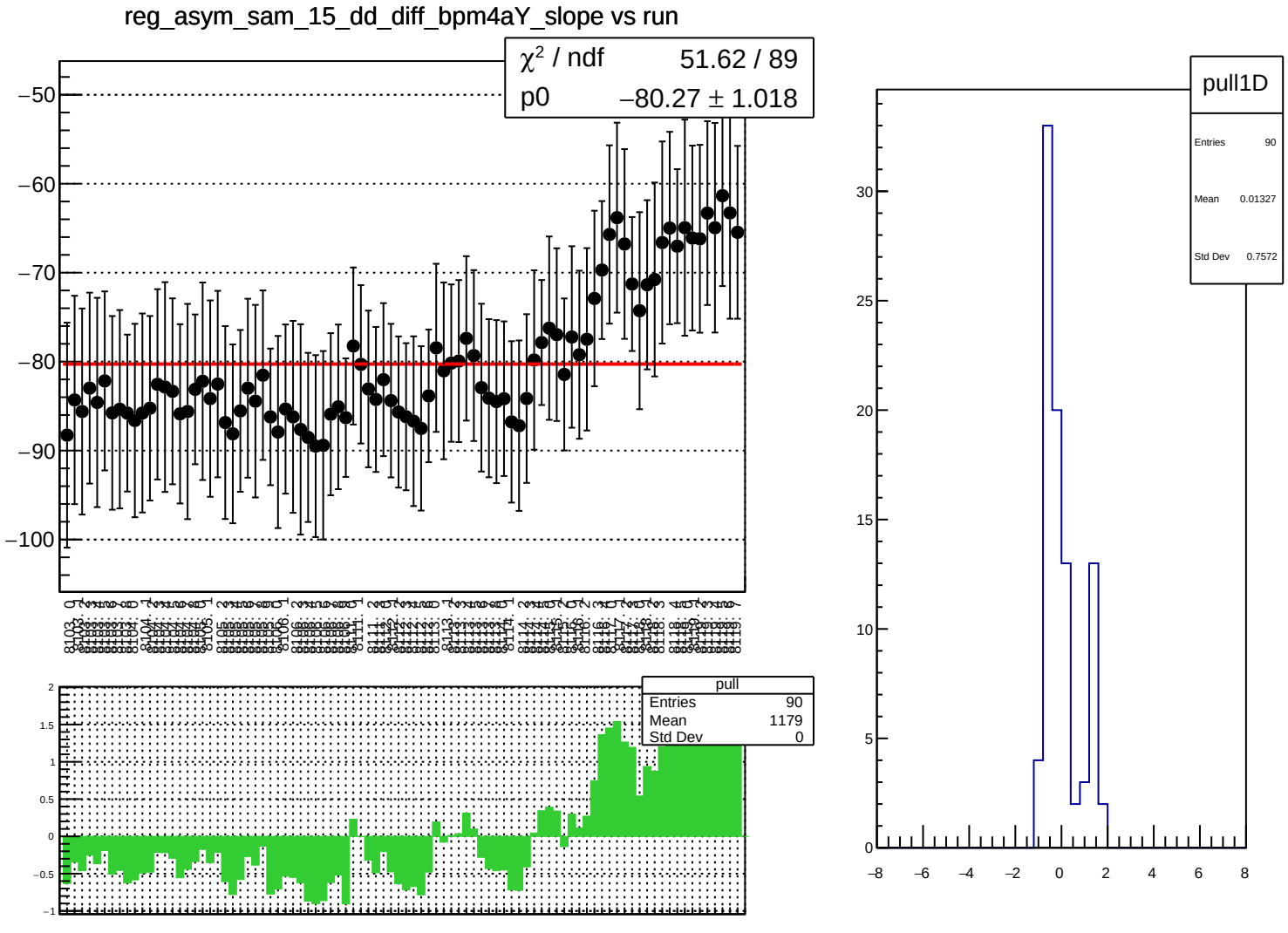

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.37 / 89
p0 26.44 ± 0.5613
pull
Entries 90
Mean −1006
Std Dev 0

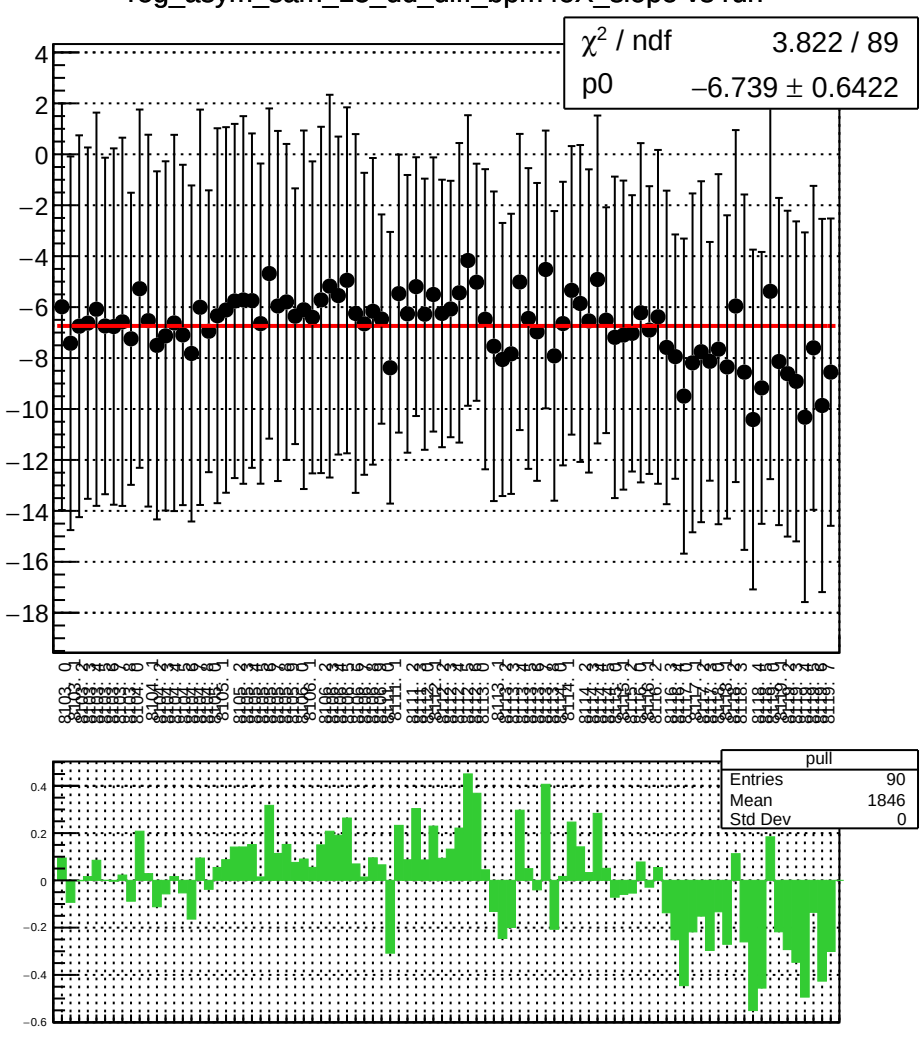

pull1D
Entries 90
Mean 0.01292
Std Dev 0.6528

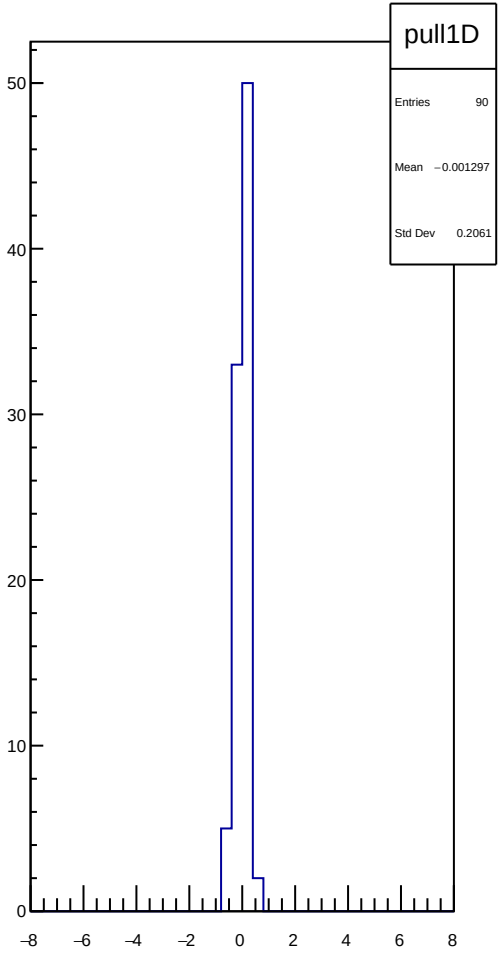

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 21.59 / 89
p0 −0.368 ± 0.02104
pull
Entries 90
Mean −1163
Std Dev 0
pull1D
Entries 90
Mean 0.008112
Std Dev 0.4897

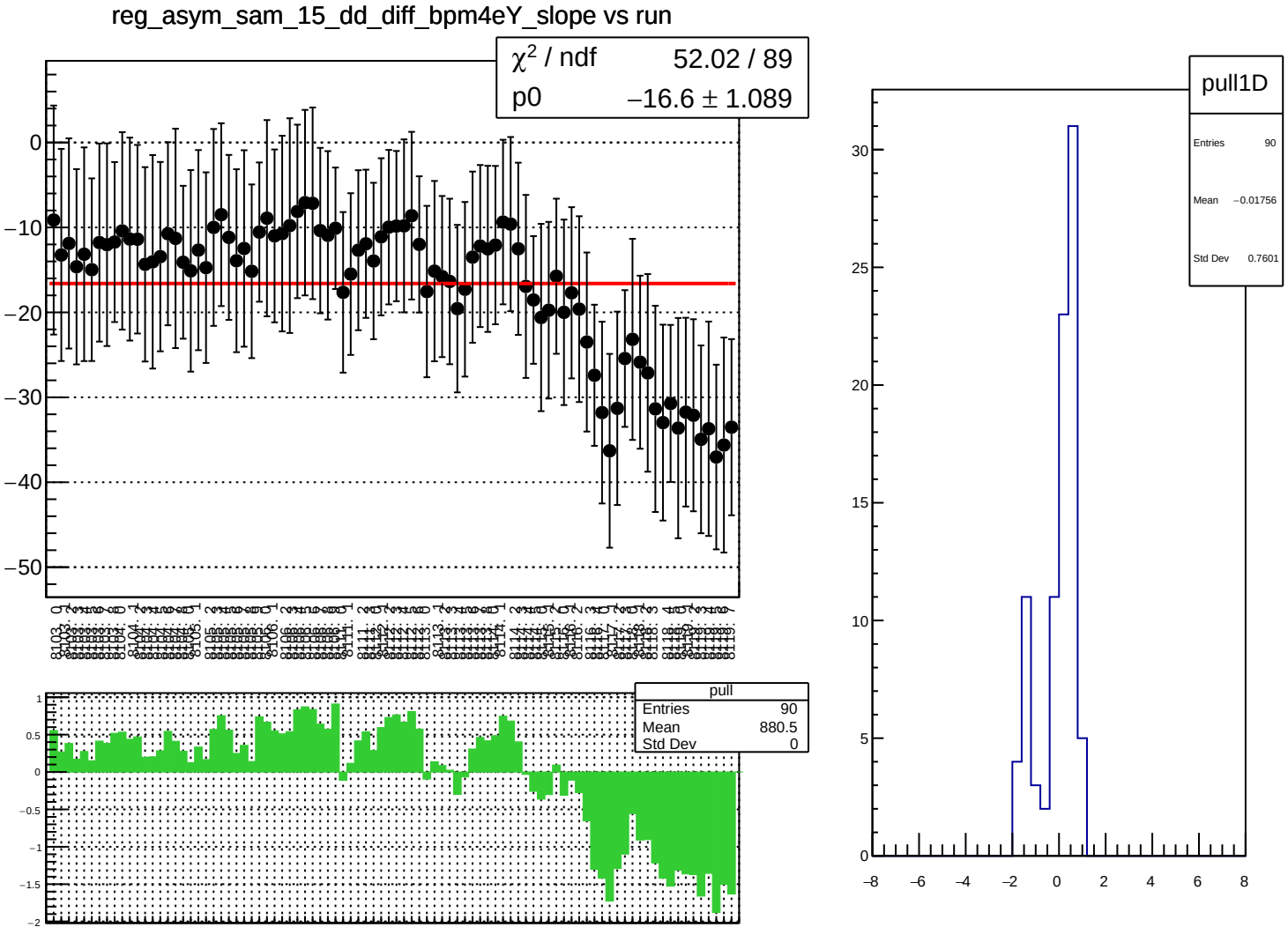

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.354 / 89
p0 −0.4137 ± 0.6751
pull
Entries 90
Mean 1396
Std Dev 0

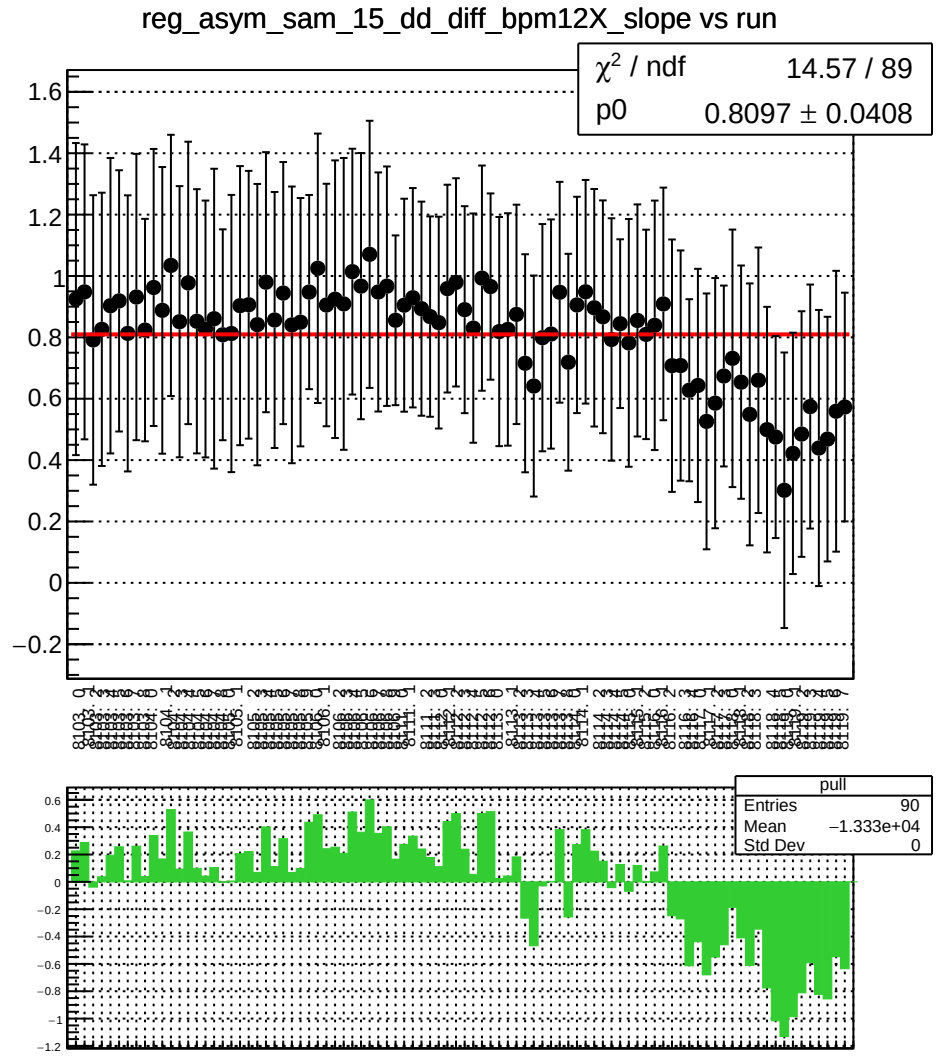

pull1D
Entries 90
Mean 0.001319
Std Dev 0.193

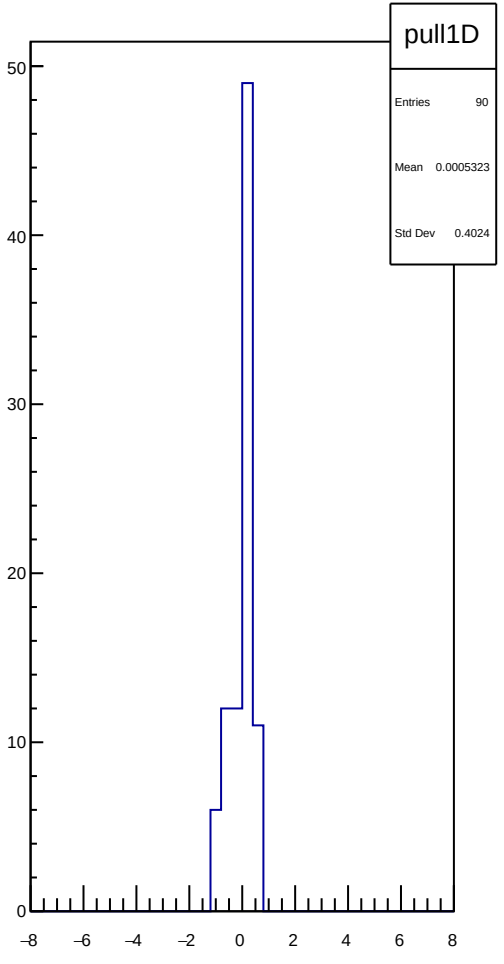

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.62 / 89
p0 −80.27 ± 1.018
pull
Entries 90
Mean 1179
Std Dev 0
pull1D
Entries 90
Mean 0.01327
Std Dev 0.7572

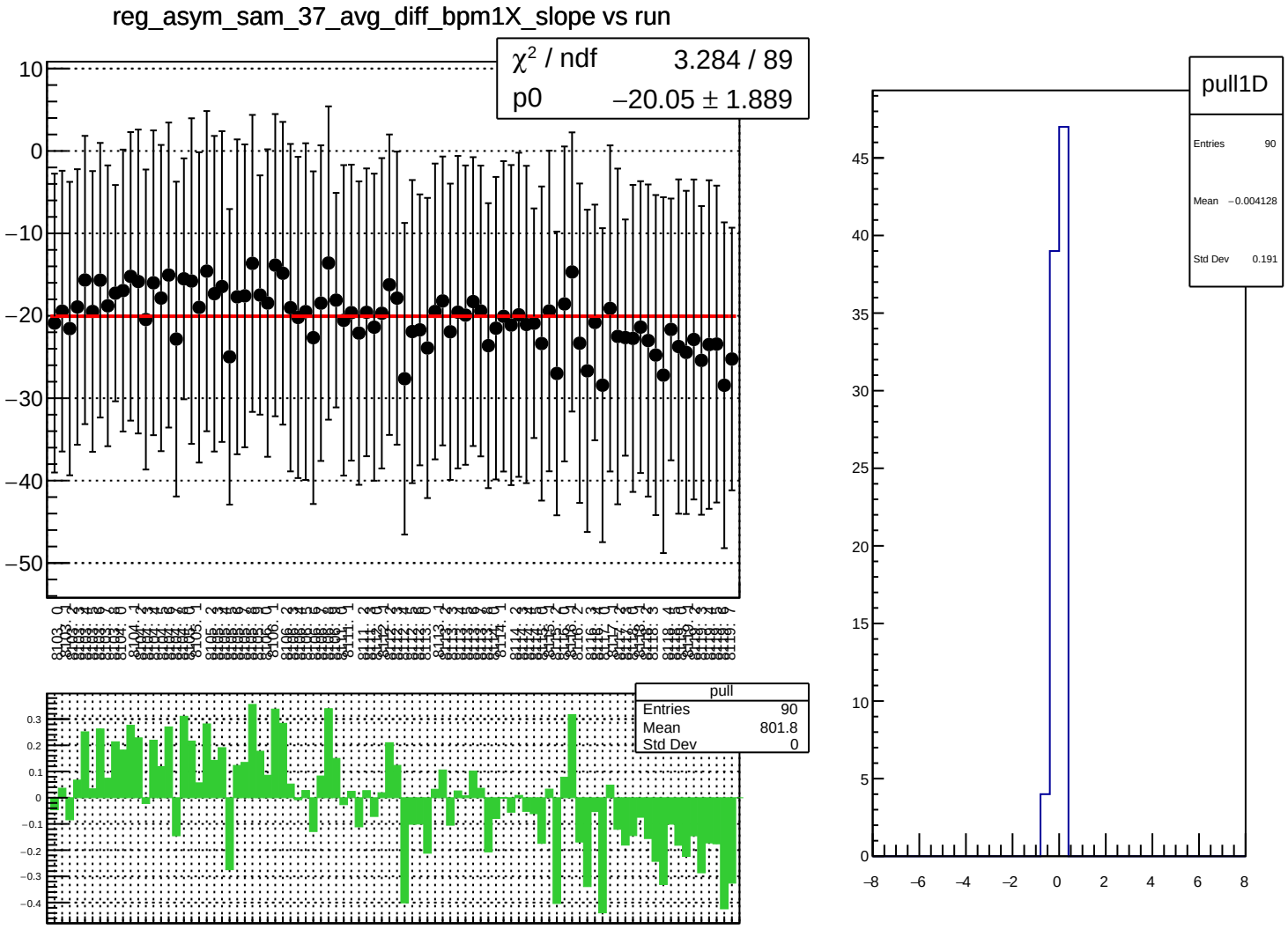

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.822 / 89
p0 −6.739 ± 0.6422
pull
Entries 90
Mean 1846
Std Dev 0

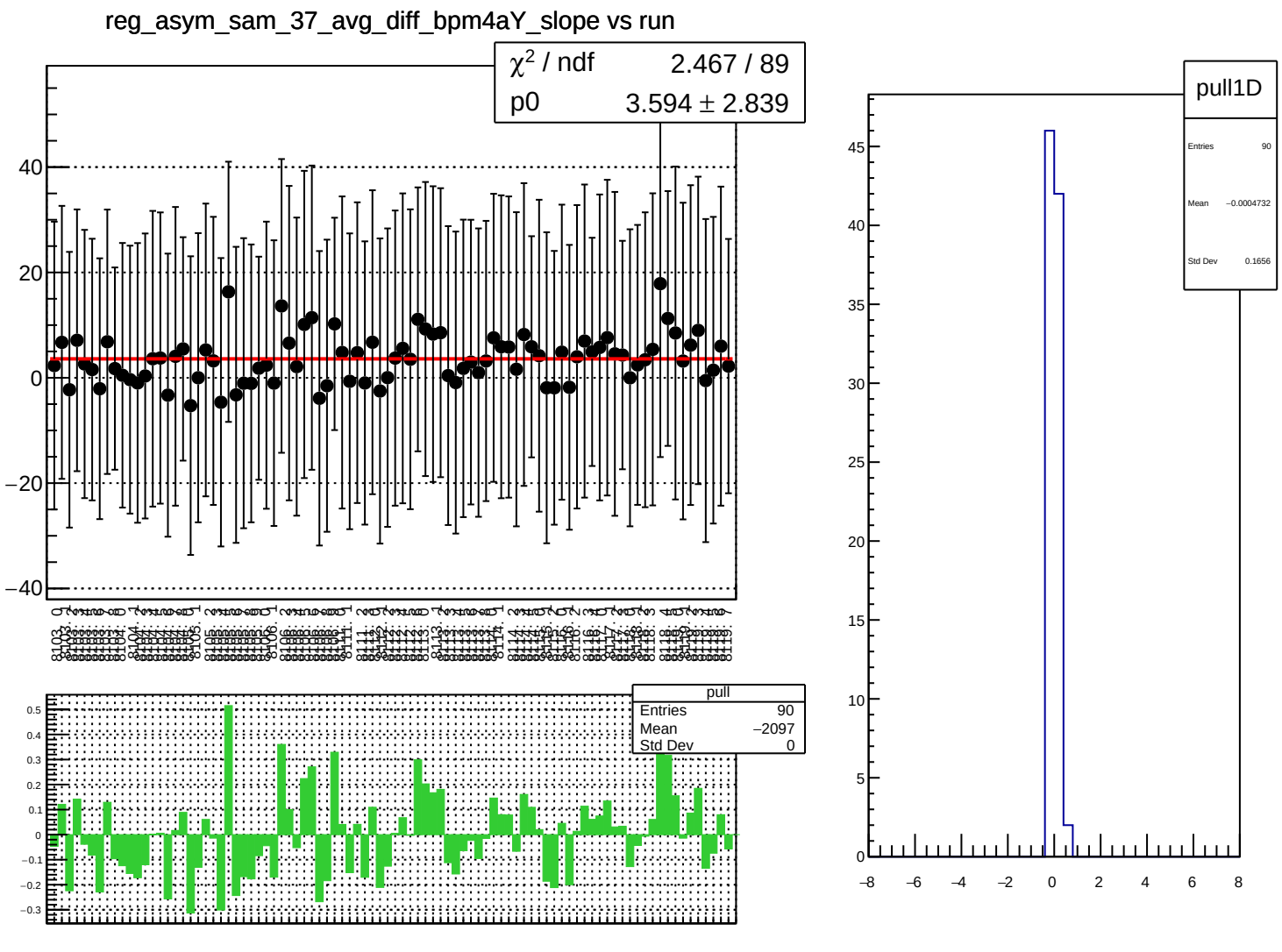

pull1D
Entries 90
Mean −0.001297
Std Dev 0.2061

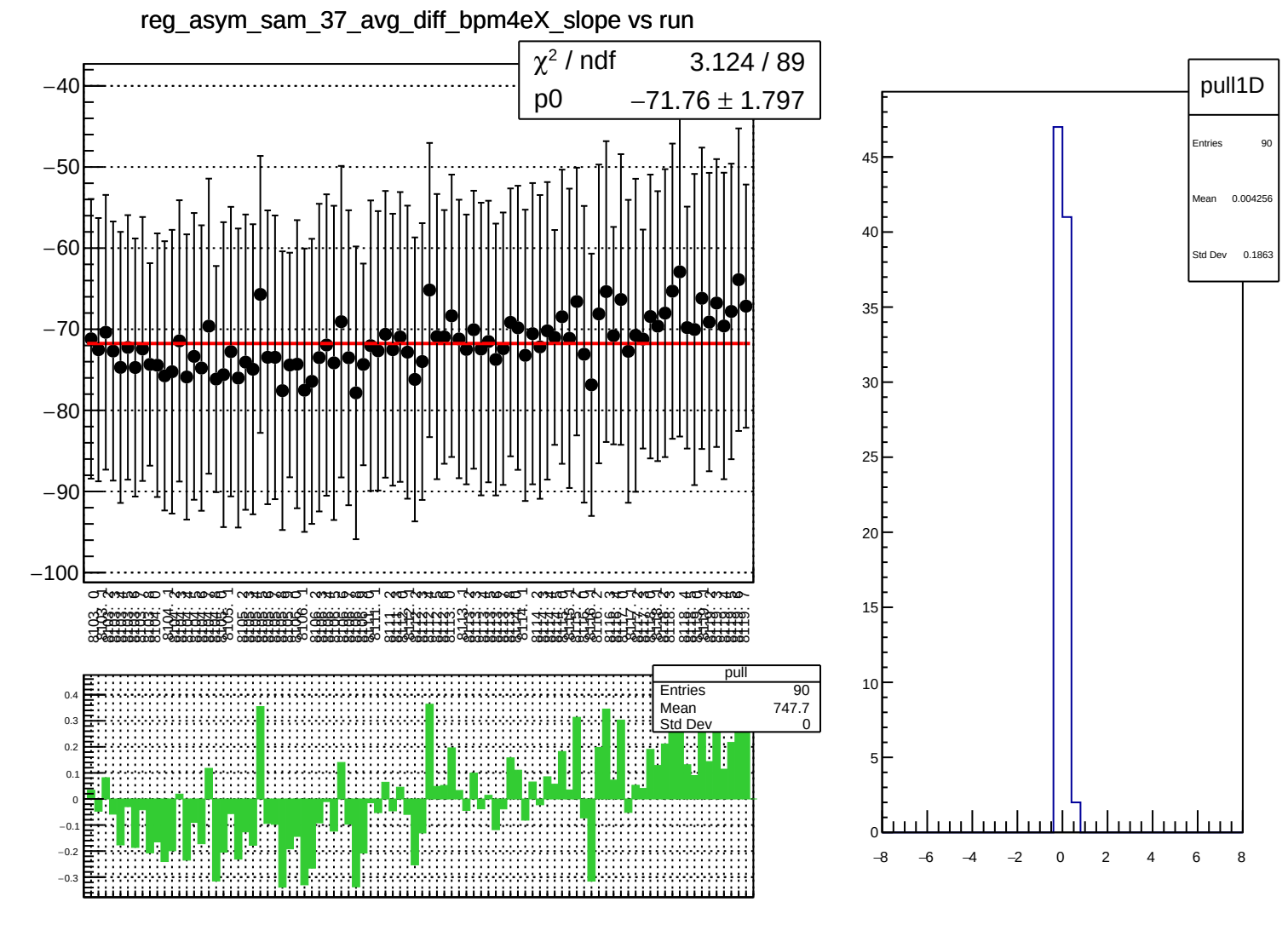

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.02 / 89
p0 −16.6 ± 1.089
pull
Entries 90
Mean 880.5
Std Dev 0
pull1D
Entries 90
Mean −0.01756
Std Dev 0.7601

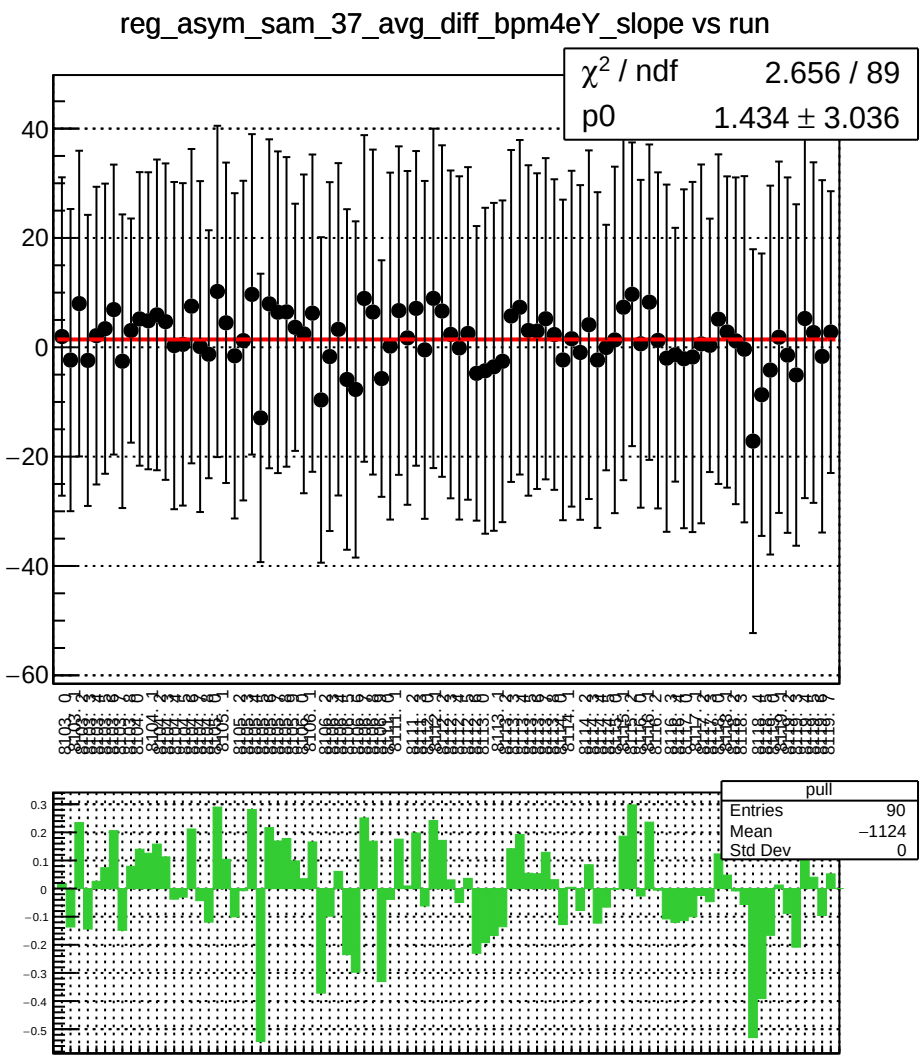

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 14.57 / 89
p0 0.8097 ± 0.0408
pull
Entries 90
Mean −1.333e+04
Std Dev 0

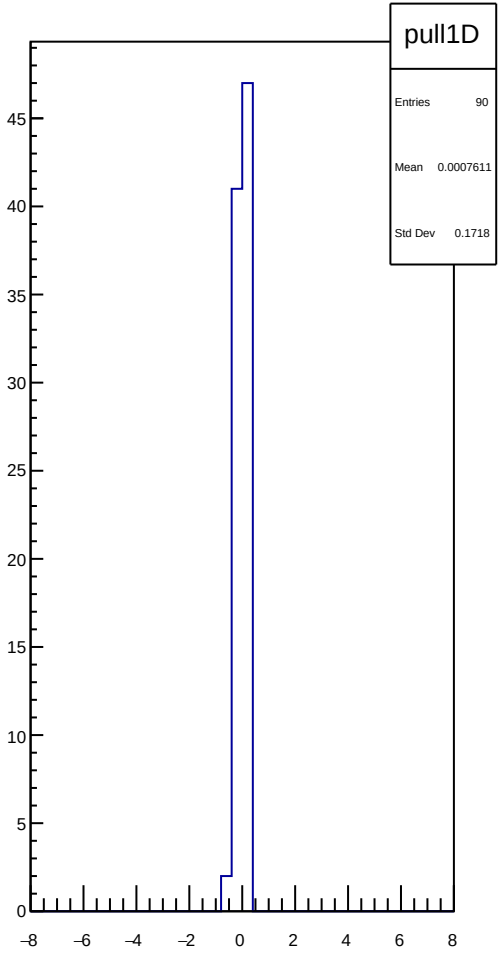

pull1D
Entries 90
Mean 0.0005323
Std Dev 0.4024

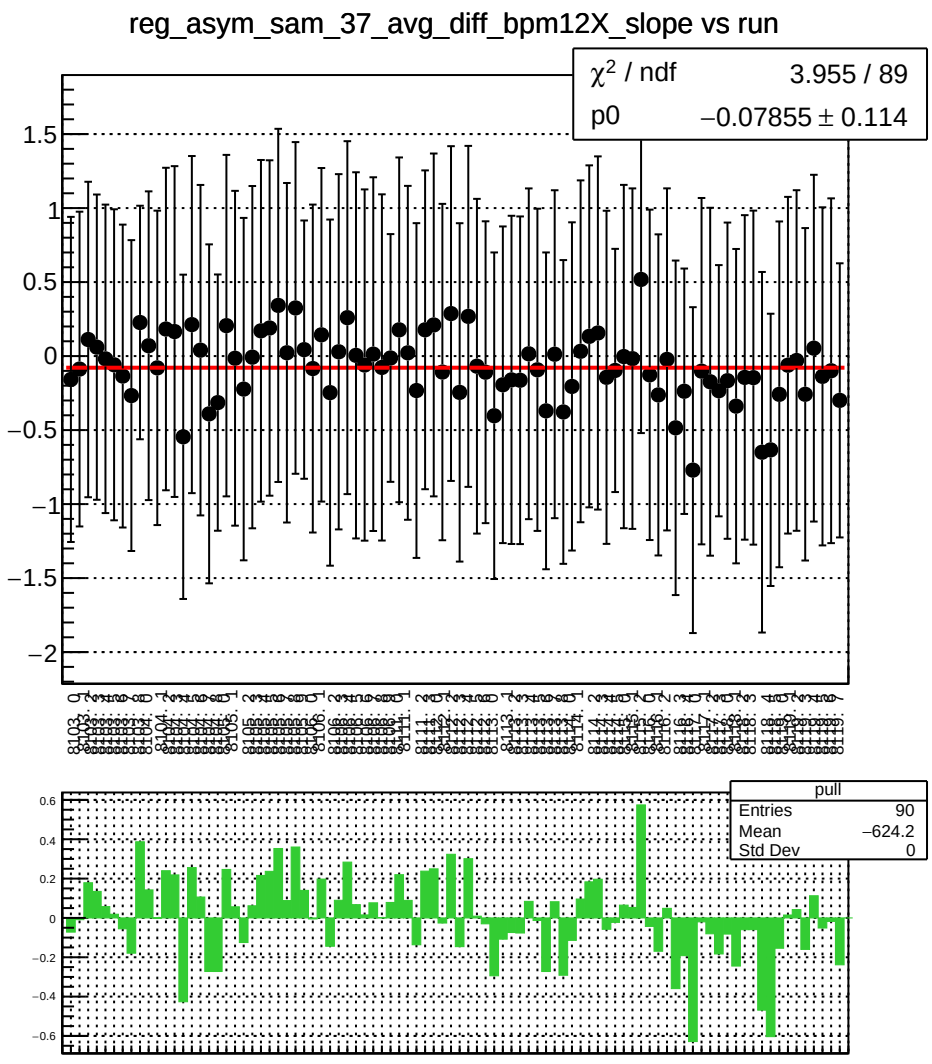

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 3.284 / 89
p0 −20.05 ± 1.889
pull
Entries 90
Mean 801.8
Std Dev 0
pull1D
Entries 90
Mean −0.004128
Std Dev 0.191

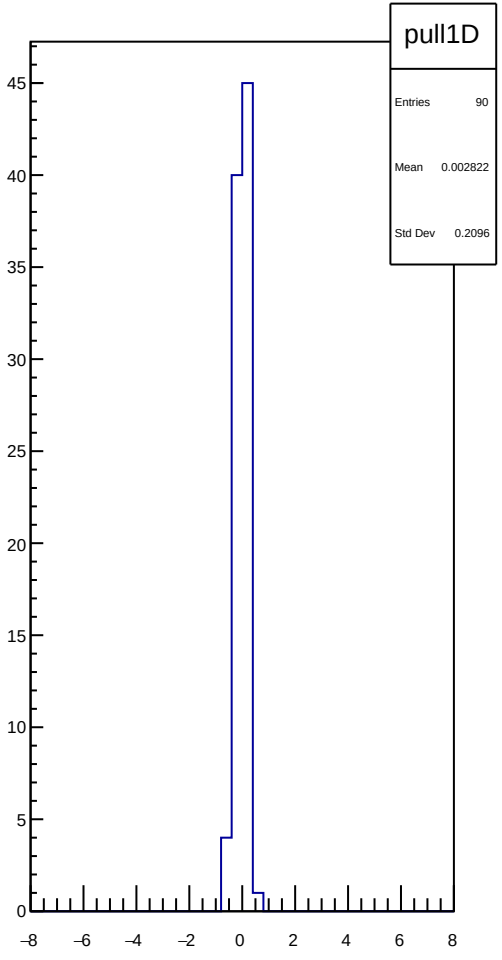

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.467 / 89
p0 3.594 ± 2.839
pull
Entries 90
Mean −2097
Std Dev 0
pull1D
Entries 90
Mean −0.0004732
Std Dev 0.1656

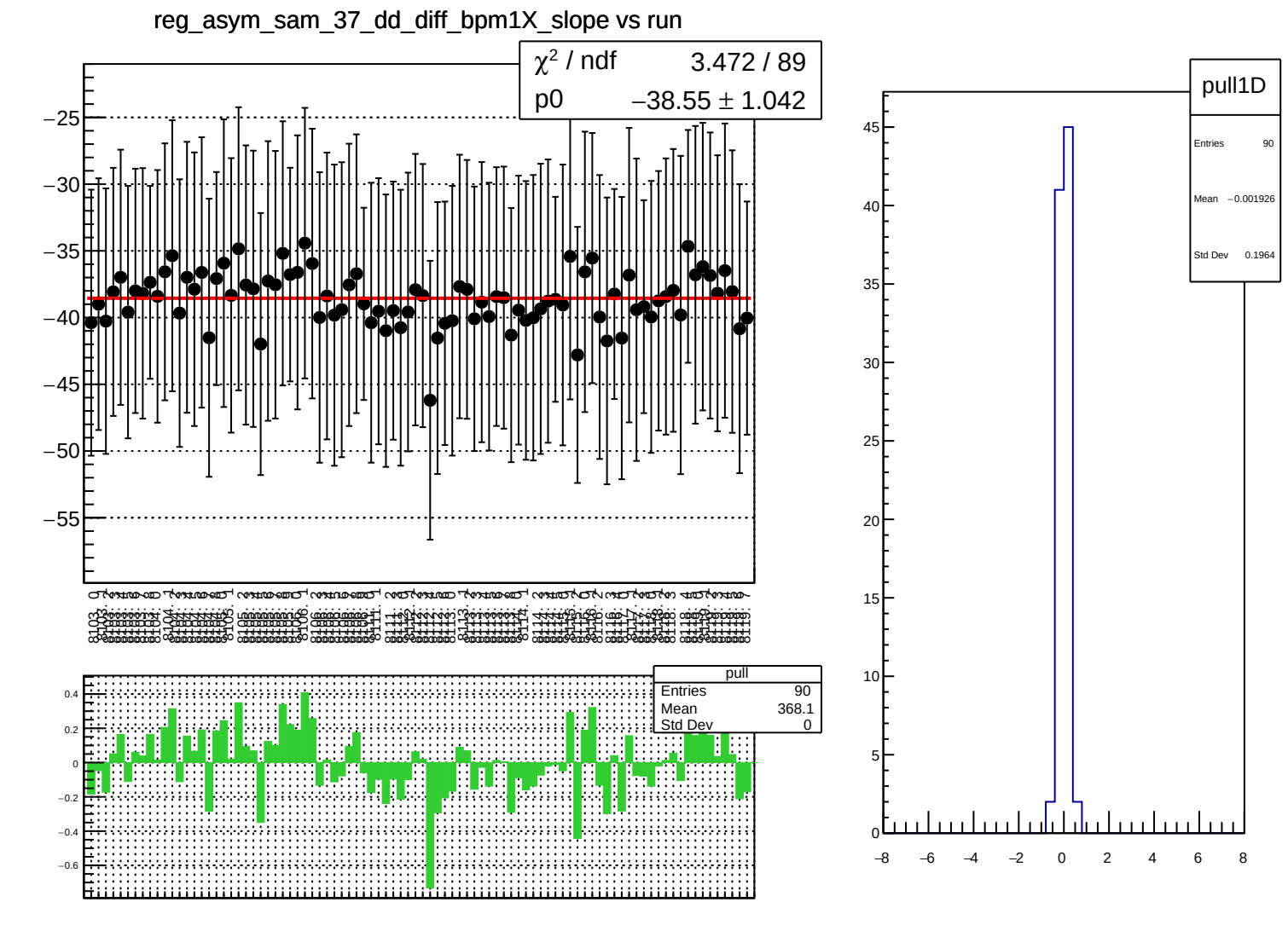

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.124 / 89
p0 −71.76 ± 1.797
pull
Entries 90
Mean 747.7
Std Dev 0
pull1D
Entries 90
Mean 0.004256
Std Dev 0.1863

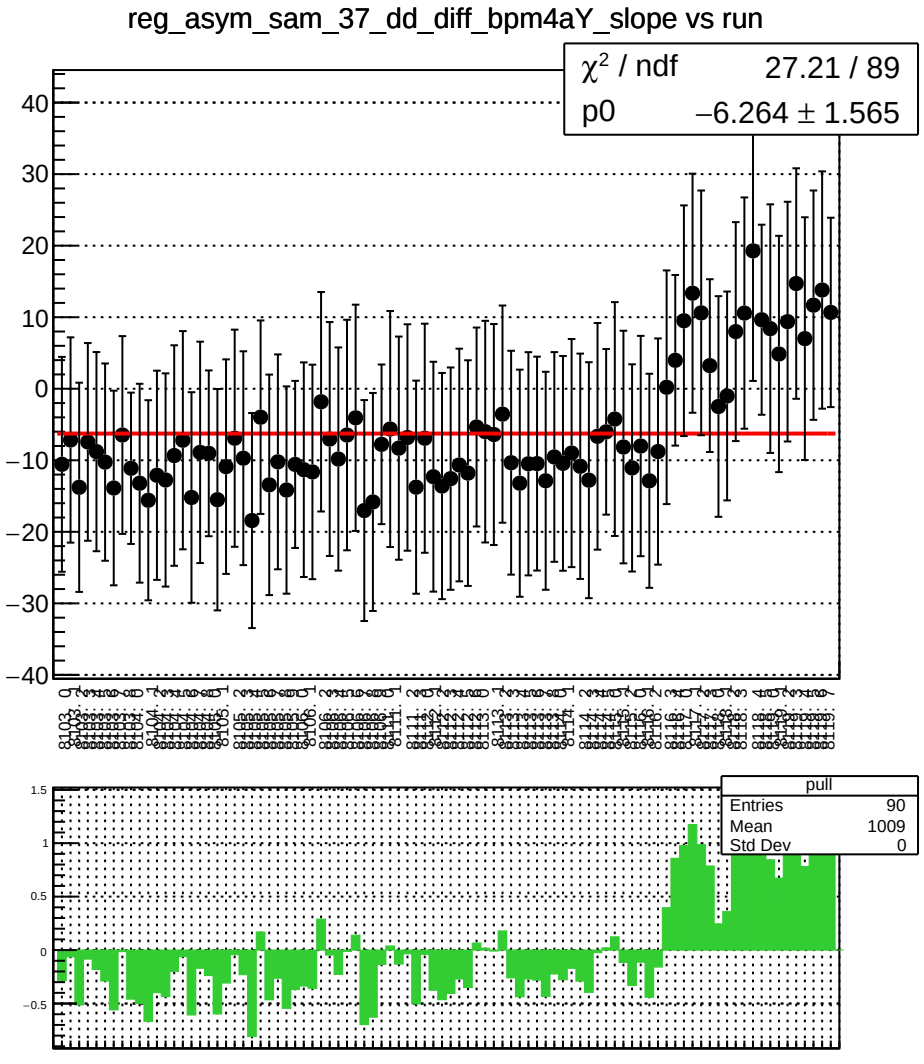

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.656 / 89
p0 1.434 ± 3.036
pull
Entries 90
Mean −1124
Std Dev 0

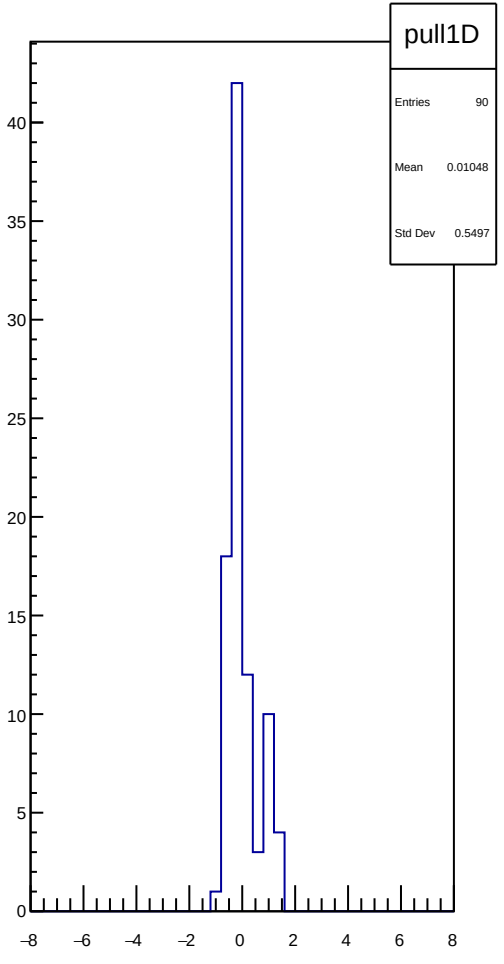

pull1D
Entries 90
Mean 0.0007611
Std Dev 0.1718

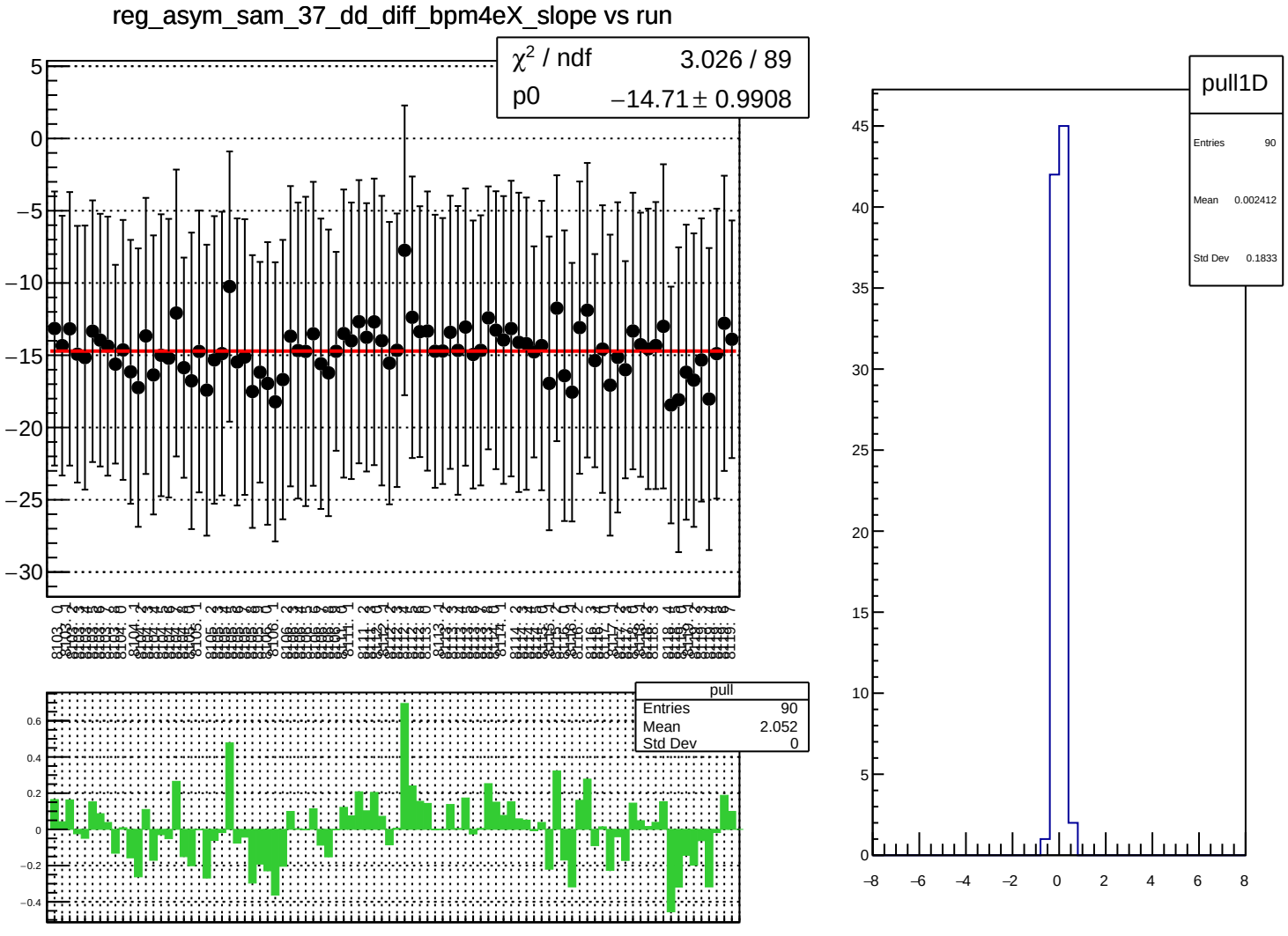

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 3.955 / 89
p0 −0.07855 ± 0.114
pull
Entries 90
Mean −624.2
Std Dev 0

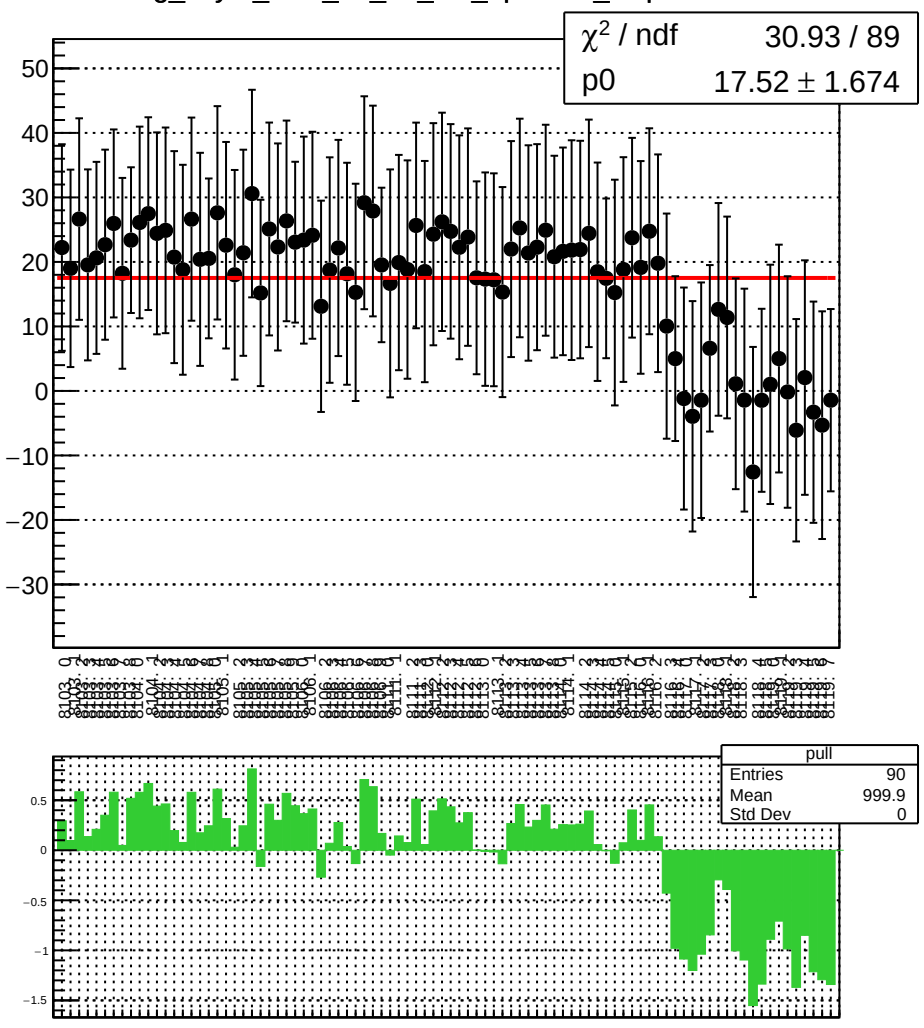

pull1D
Entries 90
Mean 0.002822
Std Dev 0.2096

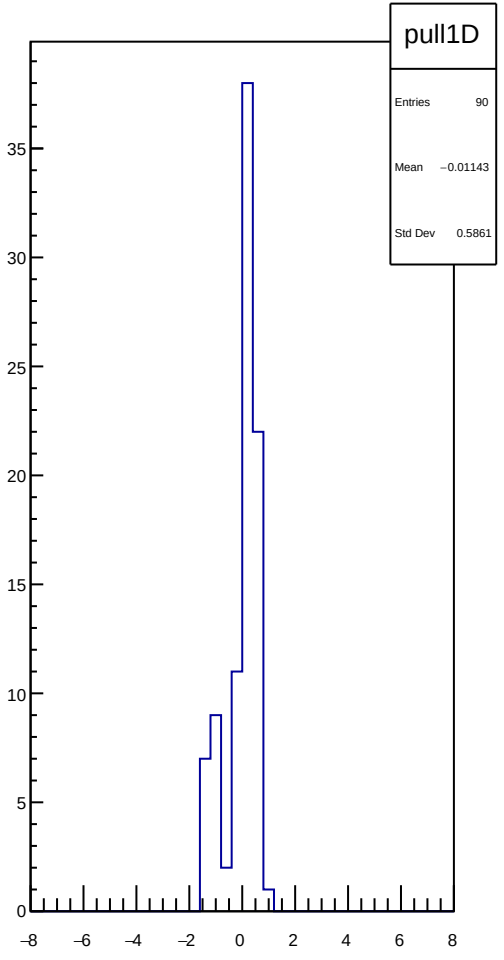

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.472 / 89
p0 −38.55 ± 1.042
pull
Entries 90
Mean 368.1
Std Dev 0
pull1D
Entries 90
Mean −0.001926
Std Dev 0.1964

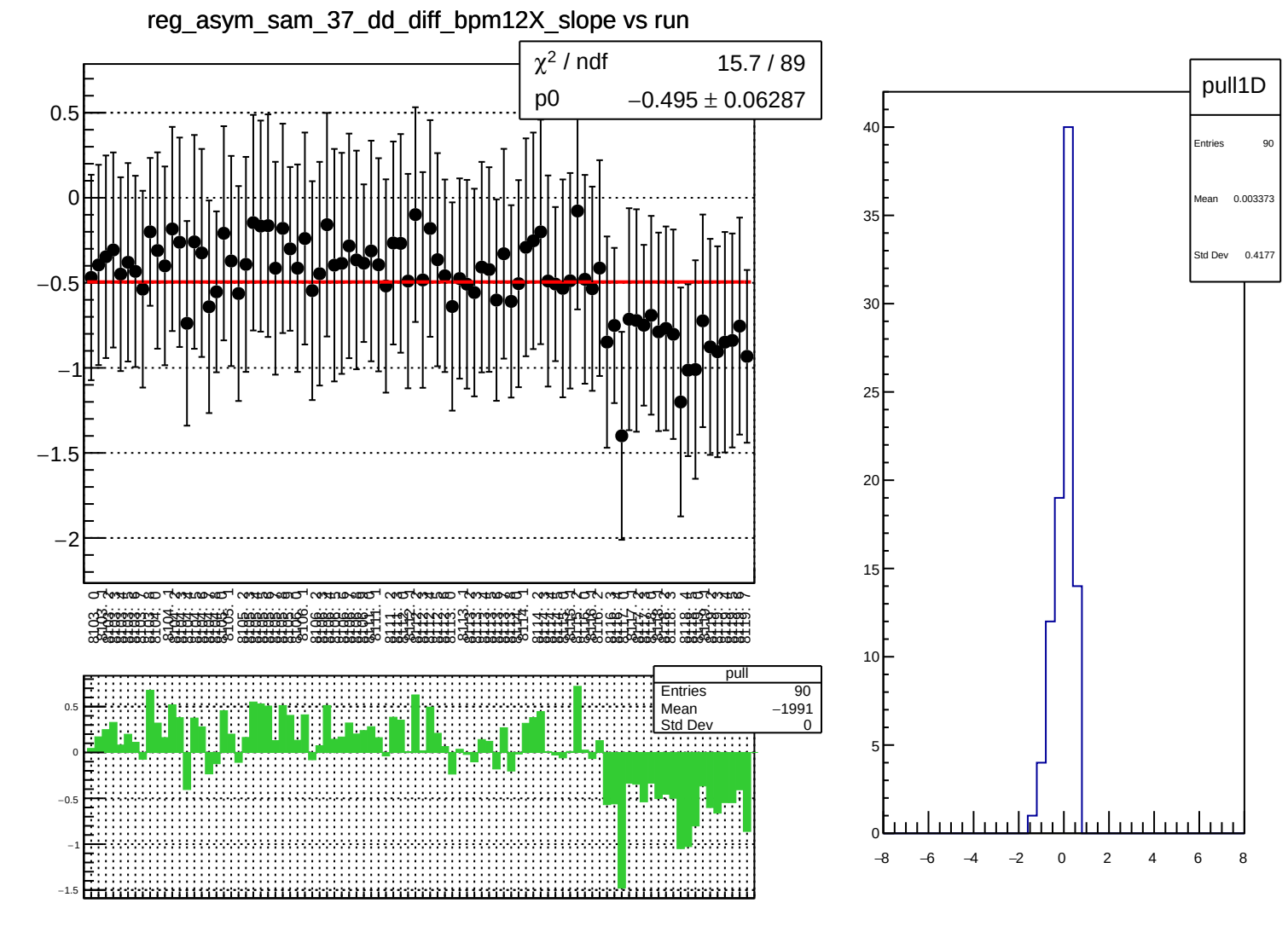

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.21 / 89
p0 −6.264 ± 1.565
pull
Entries 90
Mean 1009
Std Dev 0

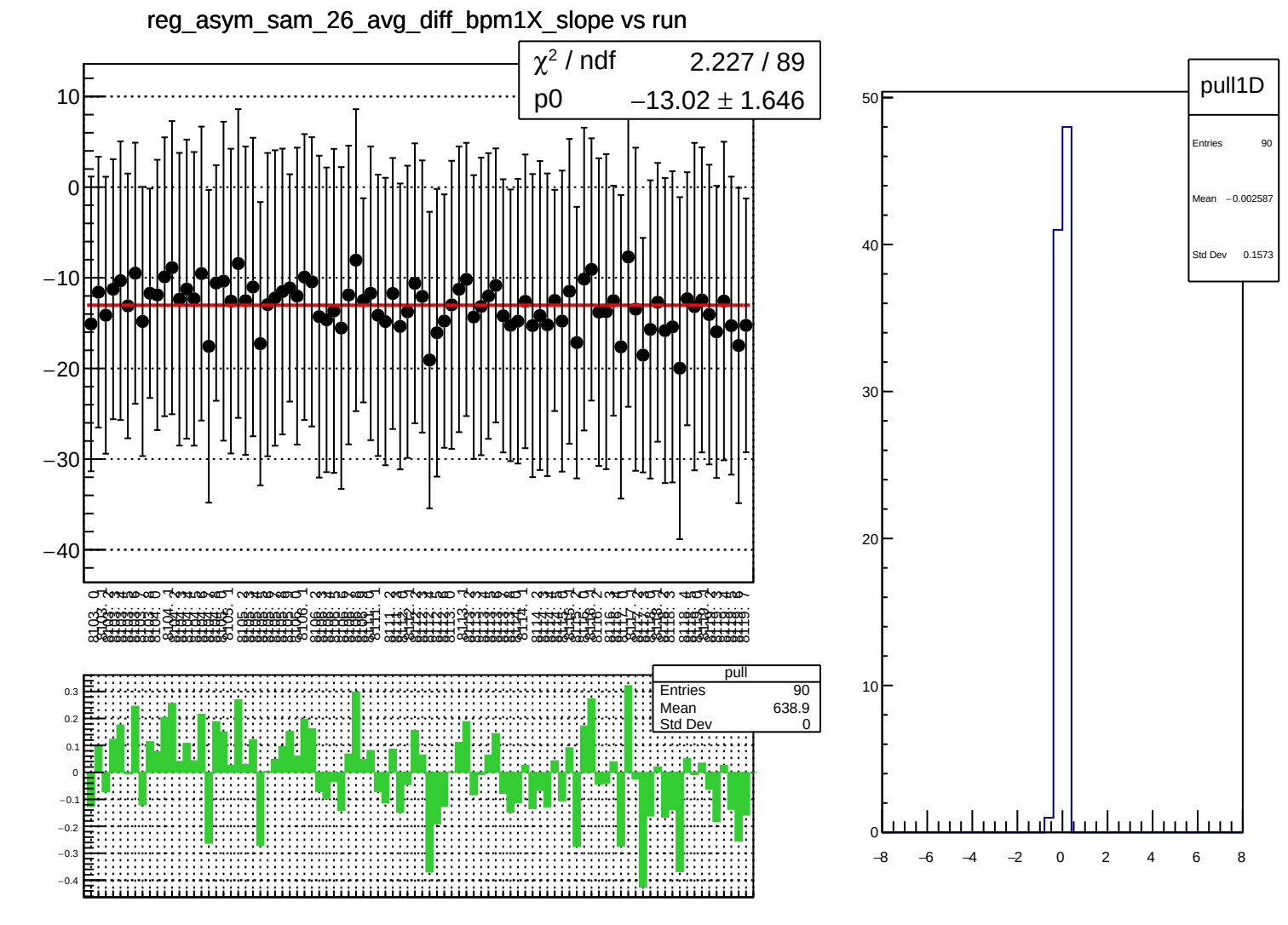

pull1D
Entries 90
Mean 0.01048
Std Dev 0.5497

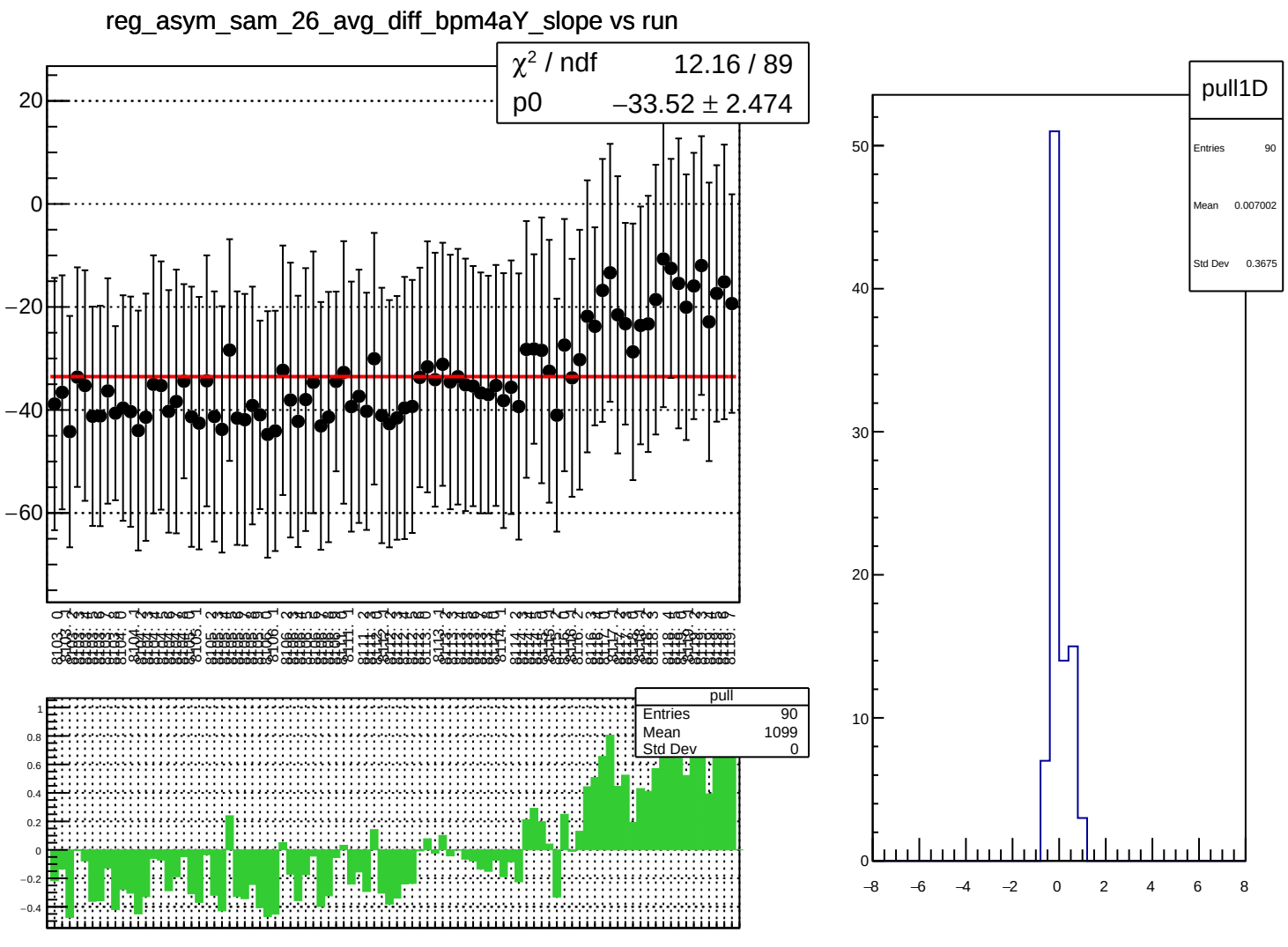

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.026 / 89
p0 −14.71 ± 0.9908
pull
Entries 90
Mean 2.052
Std Dev 0
pull1D
Entries 90
Mean 0.002412
Std Dev 0.1833

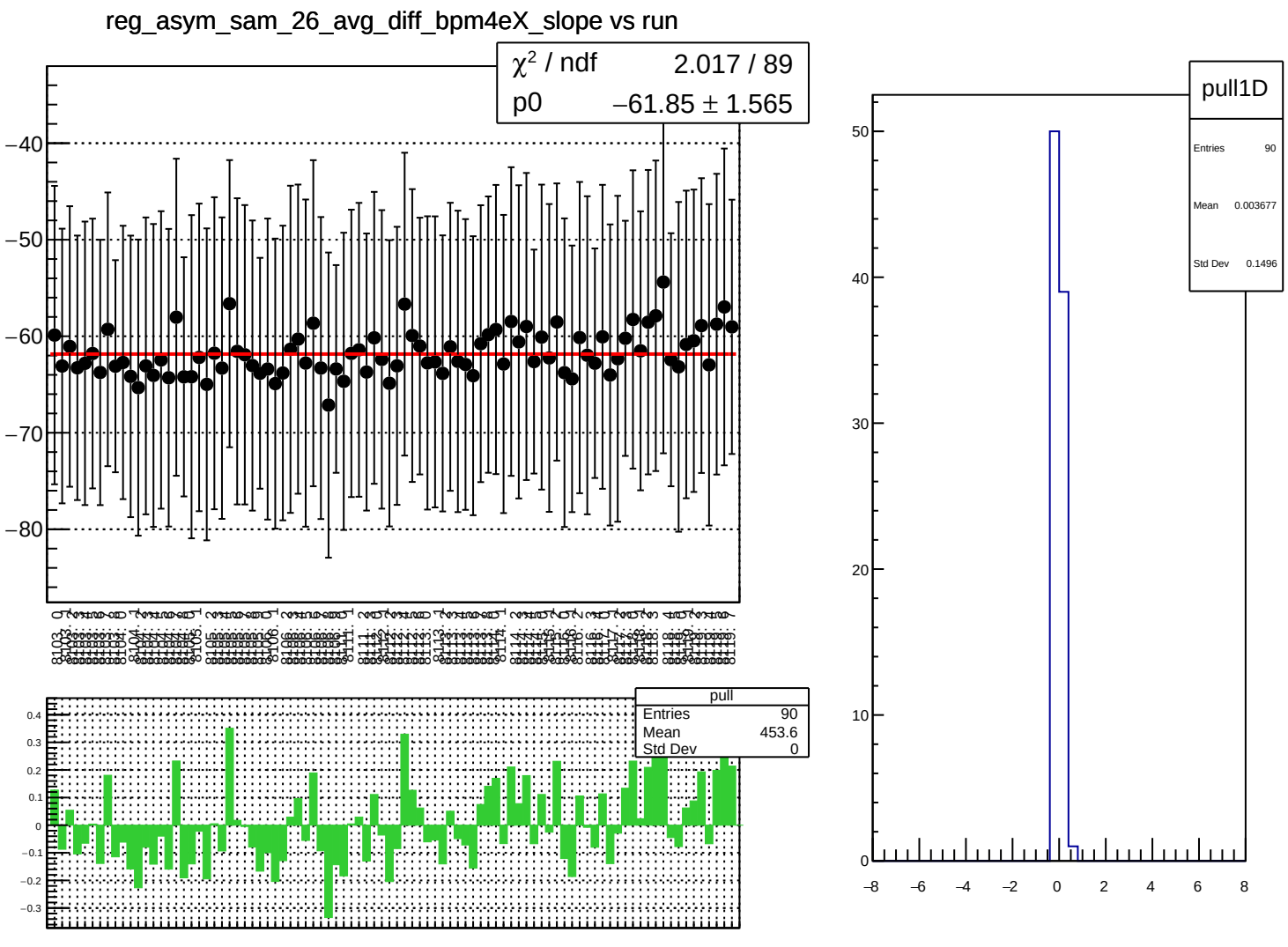

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.93 / 89
p0 17.52 ± 1.674
pull
Entries 90
Mean 999.9
Std Dev 0

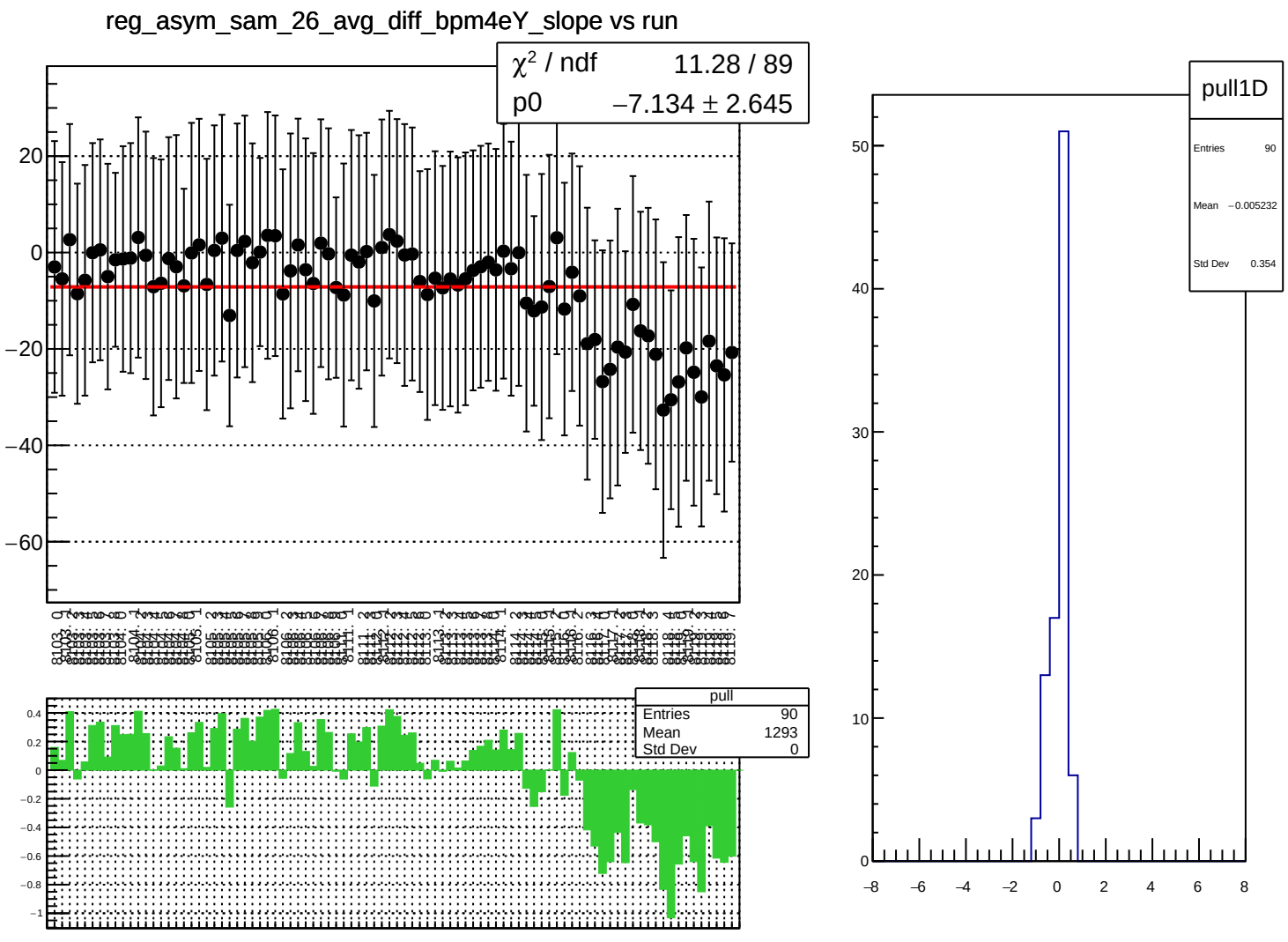

pull1D
Entries 90
Mean −0.01143
Std Dev 0.5861

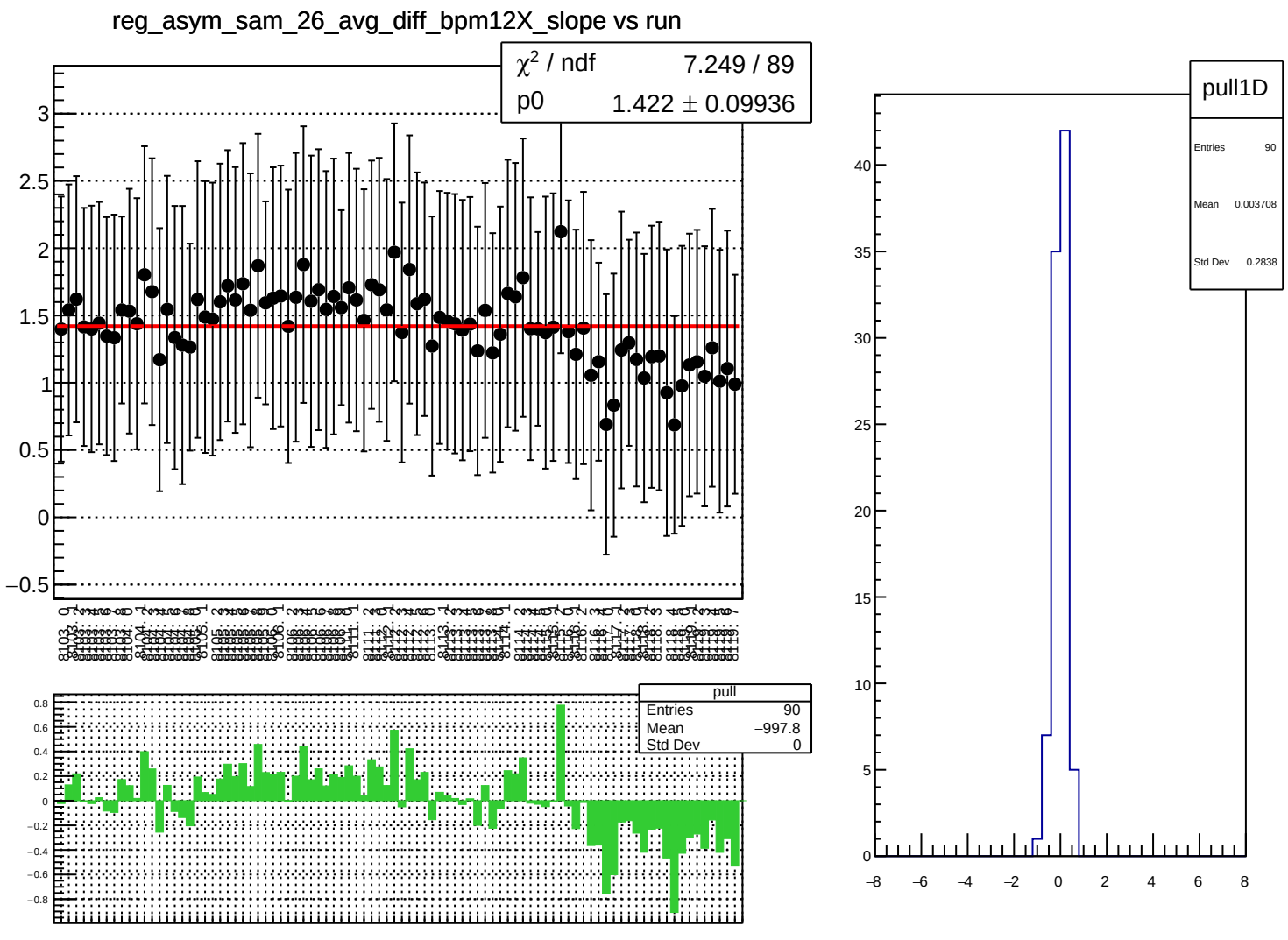

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 15.7 / 89
p0 −0.495 ± 0.06287
pull
Entries 90
Mean −1991
Std Dev 0
pull1D
Entries 90
Mean 0.003373
Std Dev 0.4177

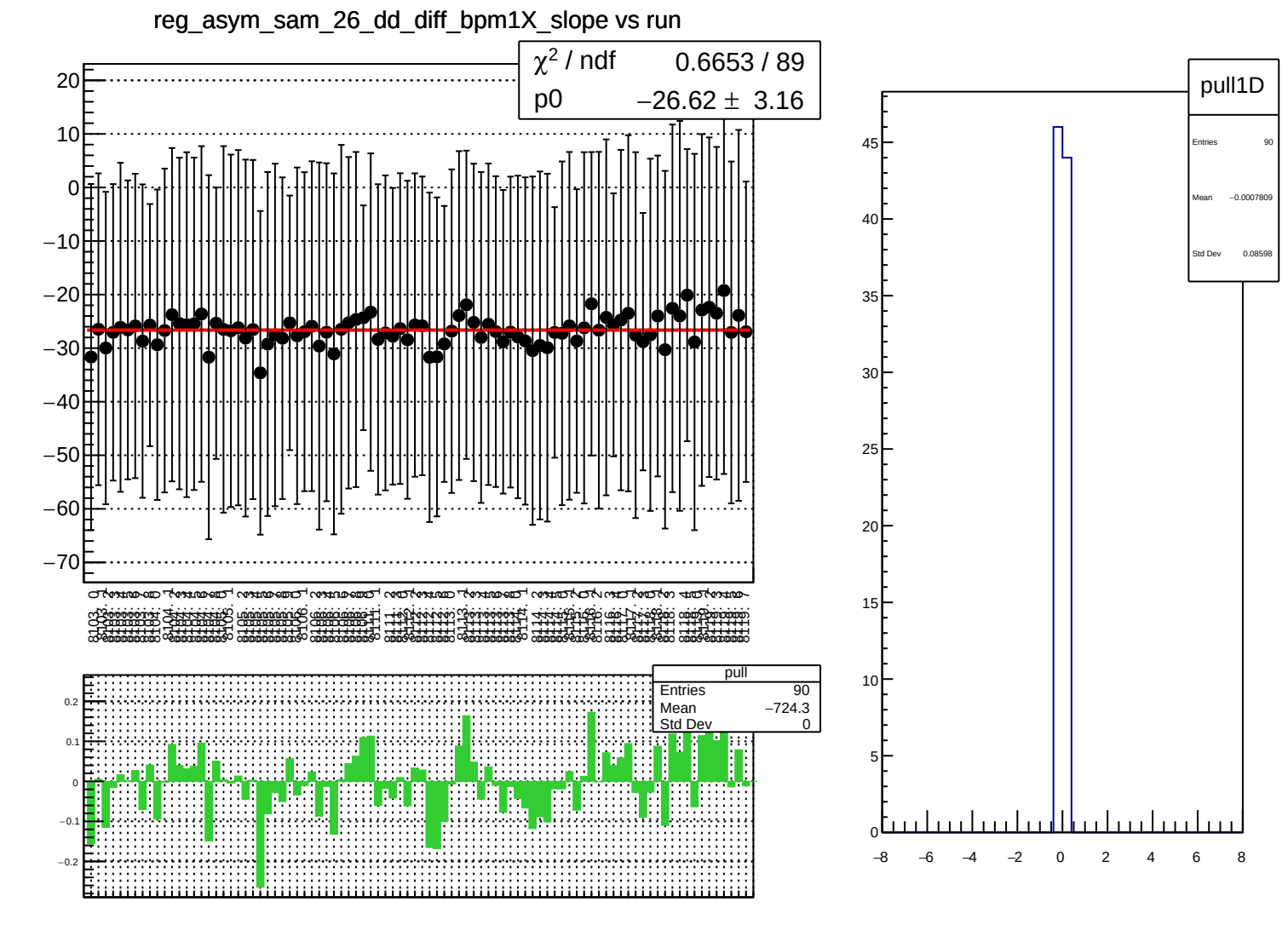

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 2.227 / 89
p0 −13.02 ± 1.646
pull
Entries 90
Mean 638.9
Std Dev 0
pull1D
Entries 90
Mean −0.002587
Std Dev 0.1573

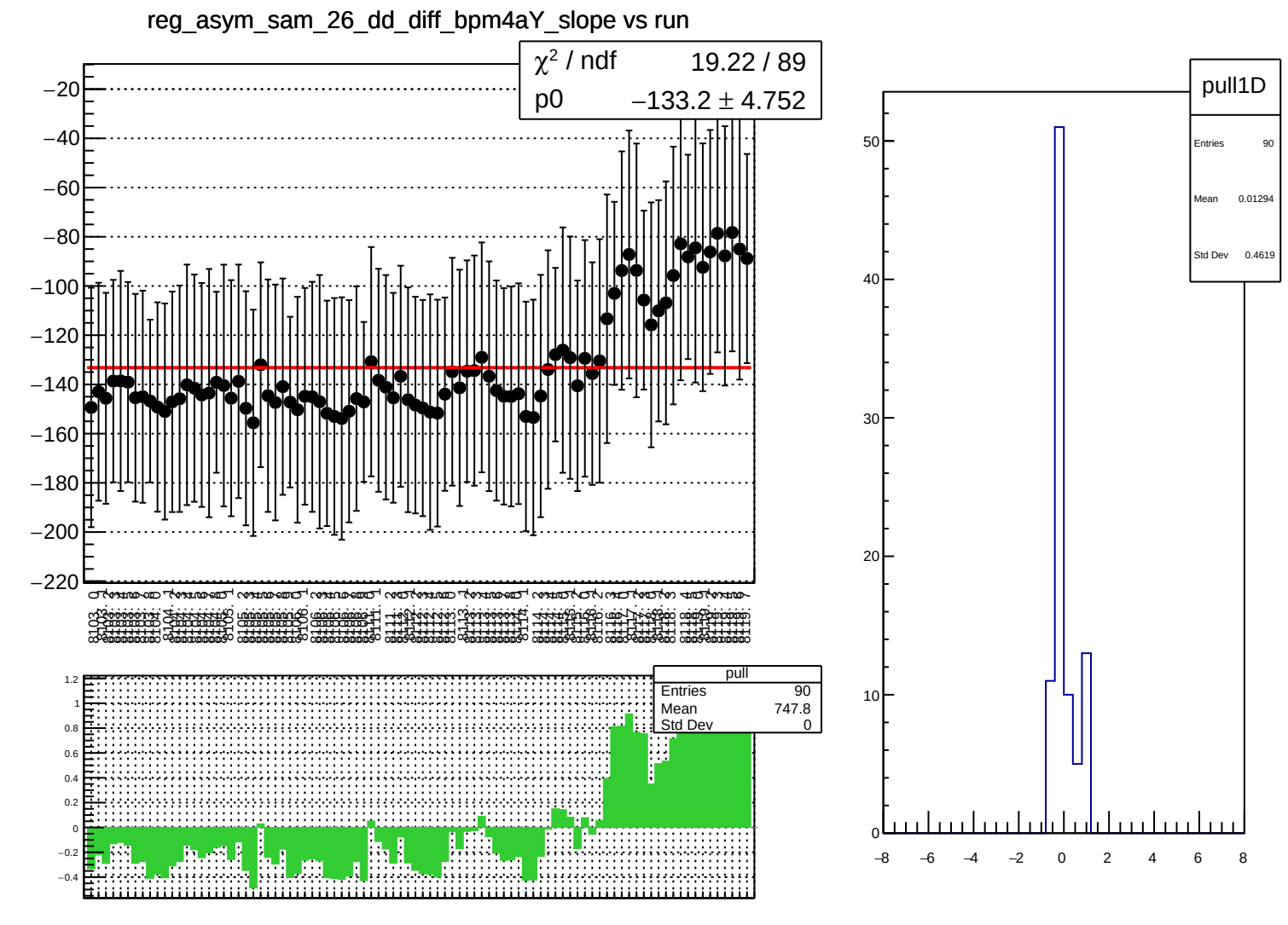

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.16 / 89
p0 −33.52 ± 2.474
pull
Entries 90
Mean 1099
Std Dev 0
pull1D
Entries 90
Mean 0.007002
Std Dev 0.3675

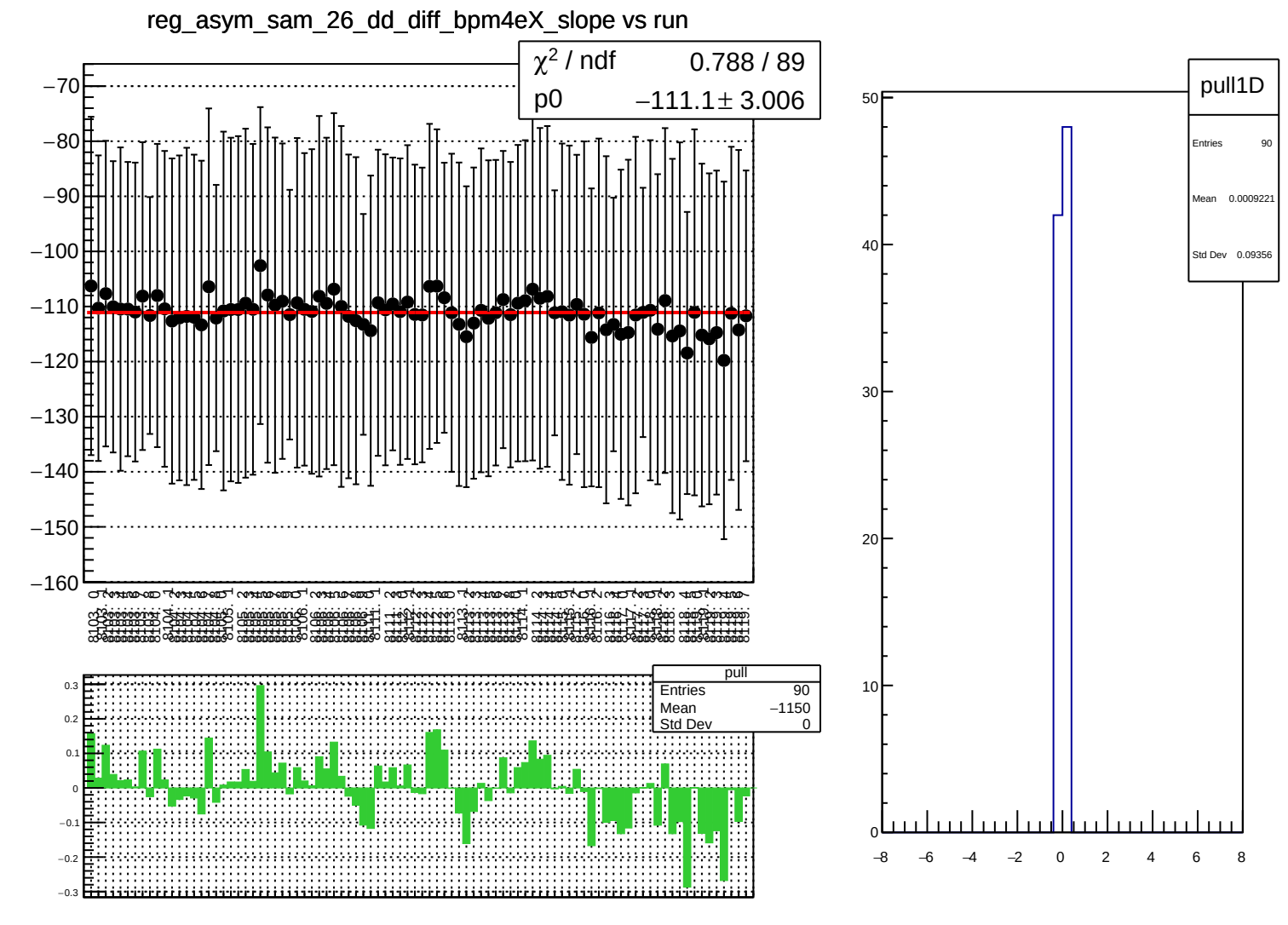

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.017 / 89
p0 −61.85 ± 1.565
−40
−50
−60
−70
−80
pull
Entries 90
Mean 453.6
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 90
Mean 0.003677
Std Dev 0.1496
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

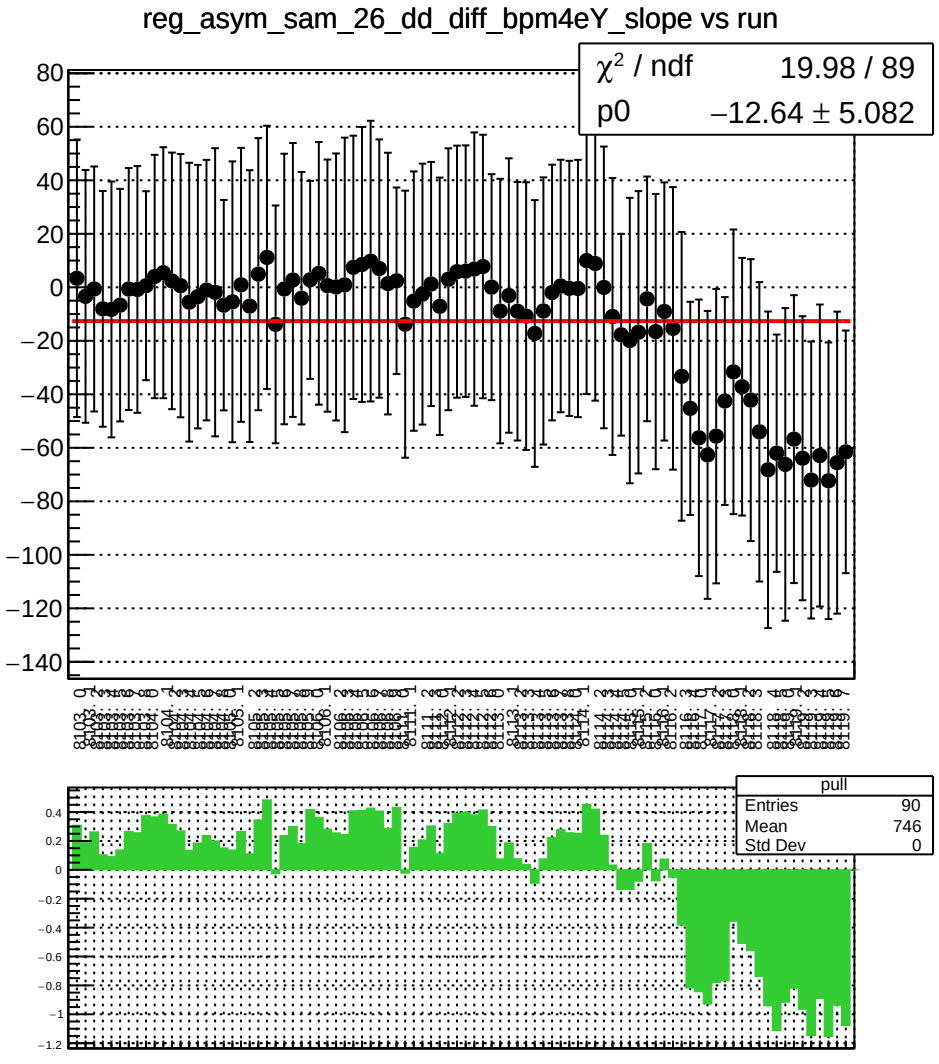

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.28 / 89
p0 −7.134 ± 2.645
pull
Entries 90
Mean 1293
Std Dev 0
pull1D
Entries 90
Mean −0.005232
Std Dev 0.354

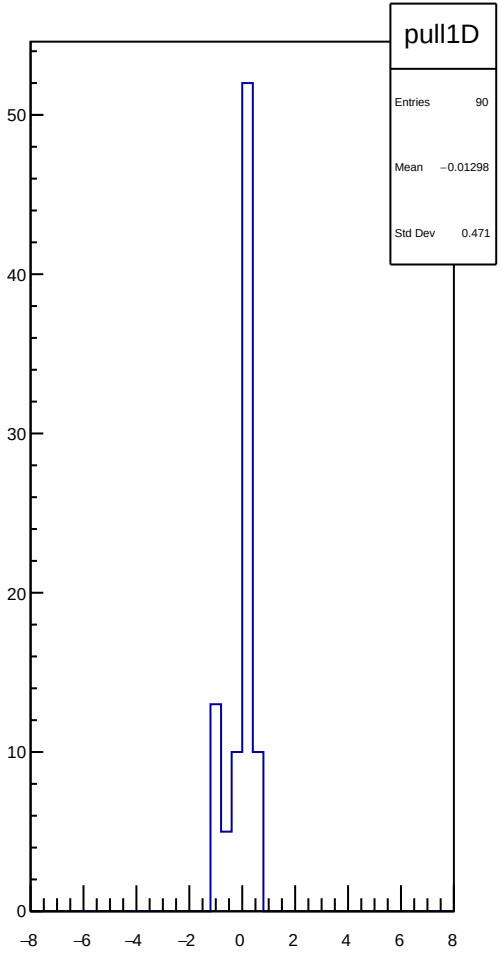

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.249 / 89
p0 1.422 ± 0.09936
pull
Entries 90
Mean −997.8
Std Dev 0
pull1D
Entries 90
Mean 0.003708
Std Dev 0.2838

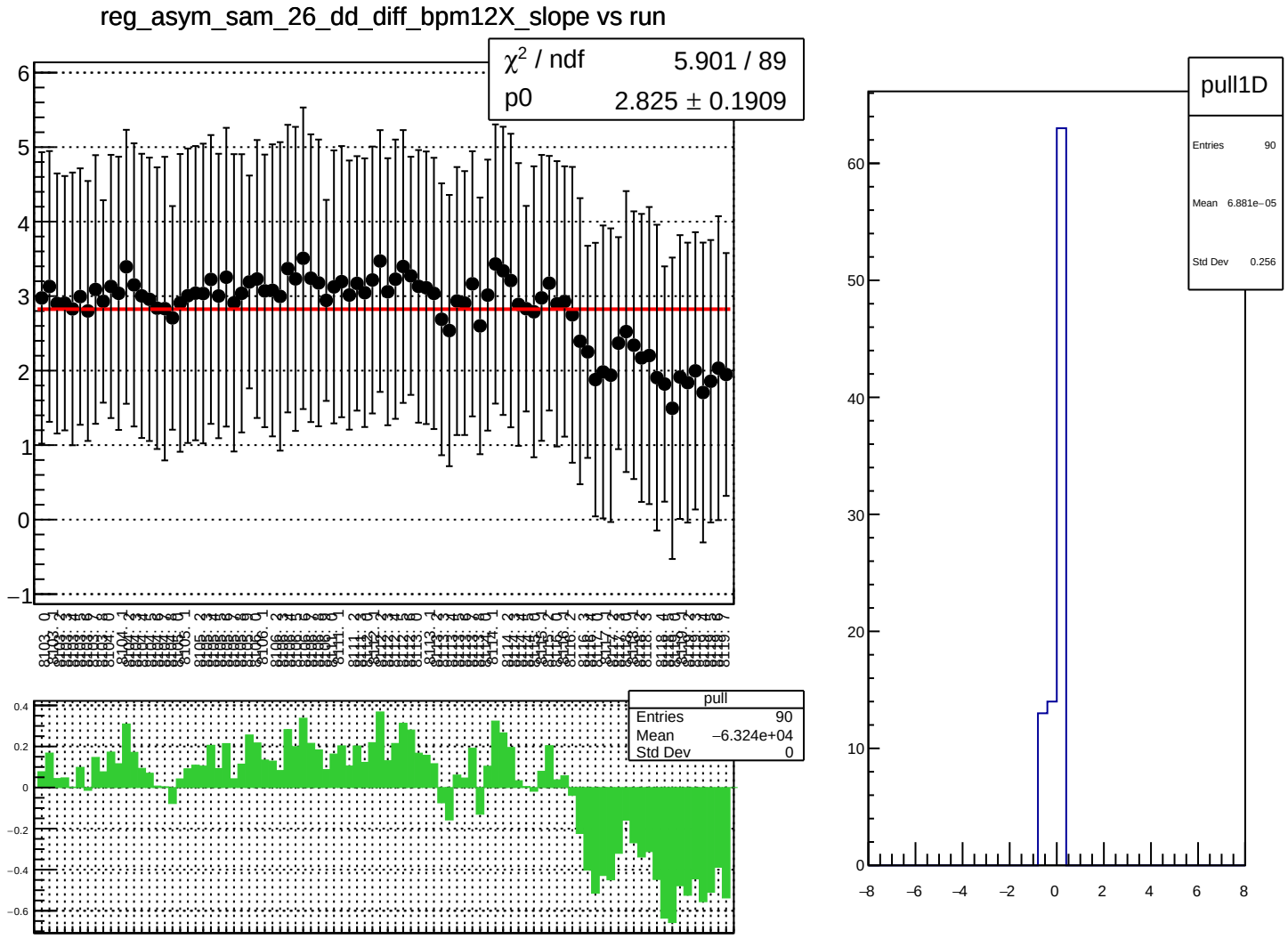

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.6653 / 89
p0 −26.62 ± 3.16
pull
Entries 90
Mean −724.3
Std Dev 0
pull1D
Entries 90
Mean −0.0007809
Std Dev 0.08598

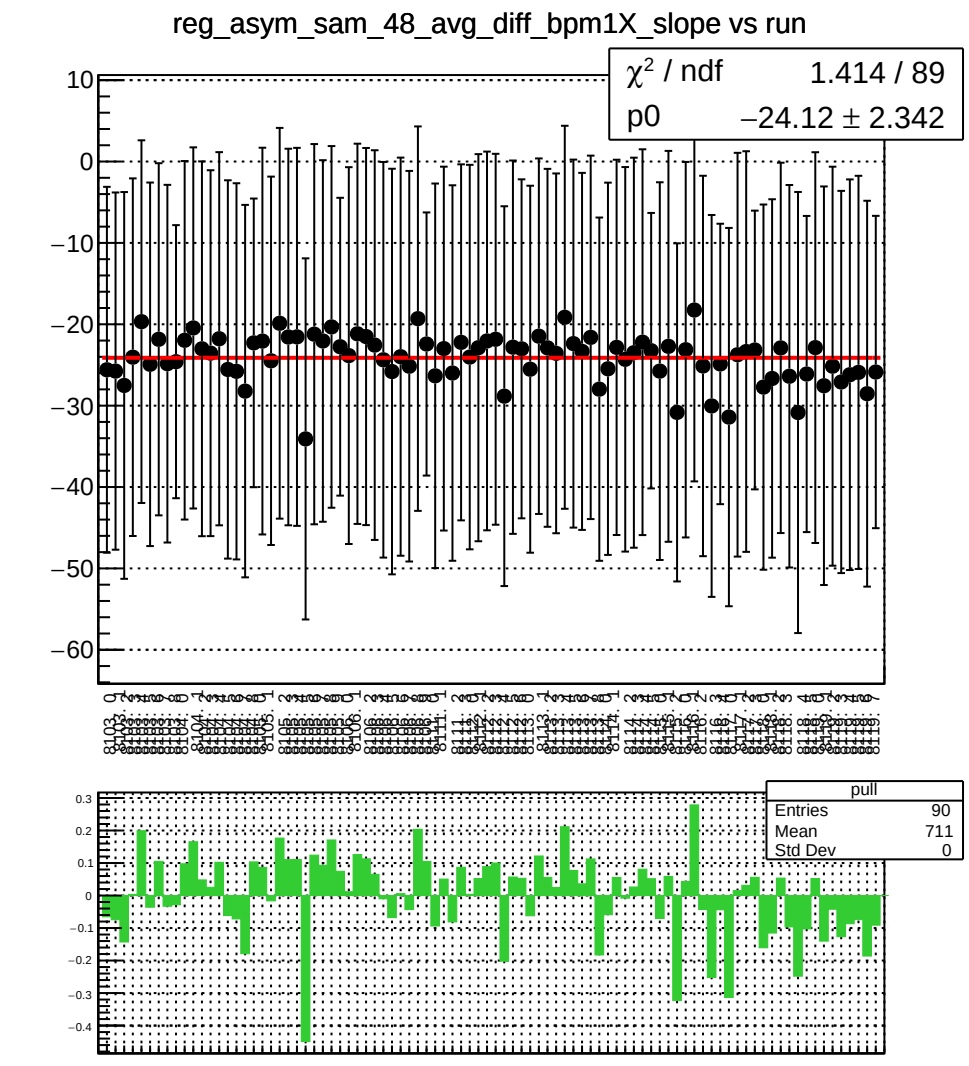

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.22 / 89
p0 −133.2 ± 4.752
pull
Entries 90
Mean 747.8
Std Dev 0
pull1D
Entries 90
Mean 0.01294
Std Dev 0.4619

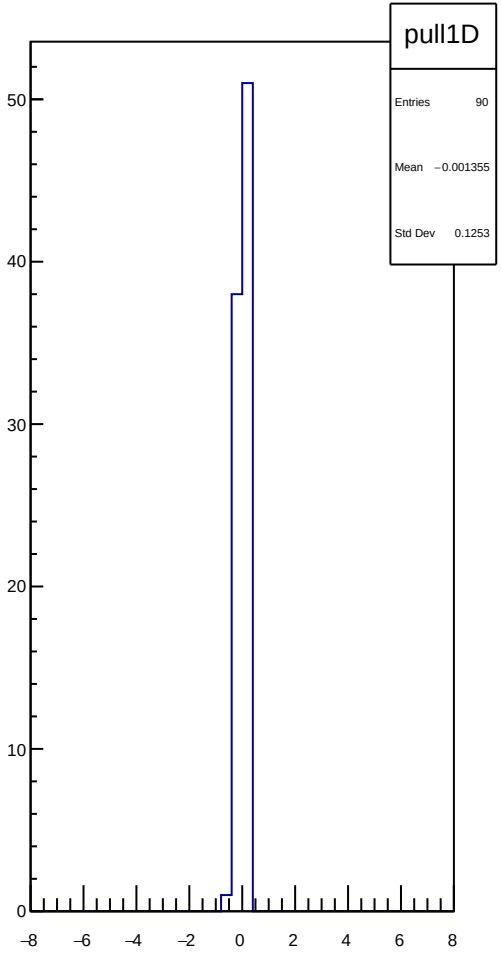

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.788 / 89
p0 −111.1± 3.006
pull
Entries 90
Mean −1150
Std Dev 0
pull1D
Entries 90
Mean 0.0009221
Std Dev 0.09356

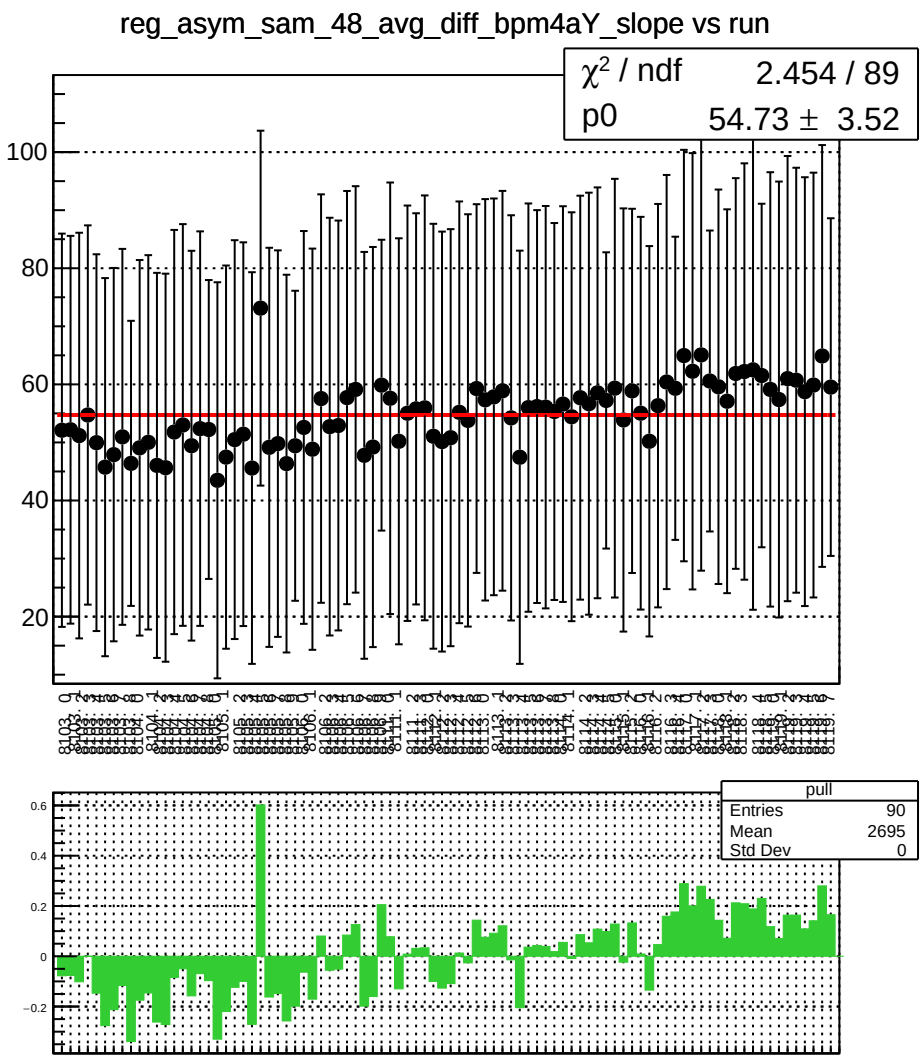

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.98 / 89
p0 −12.64 ± 5.082
pull
Entries 90
Mean 746
Std Dev 0

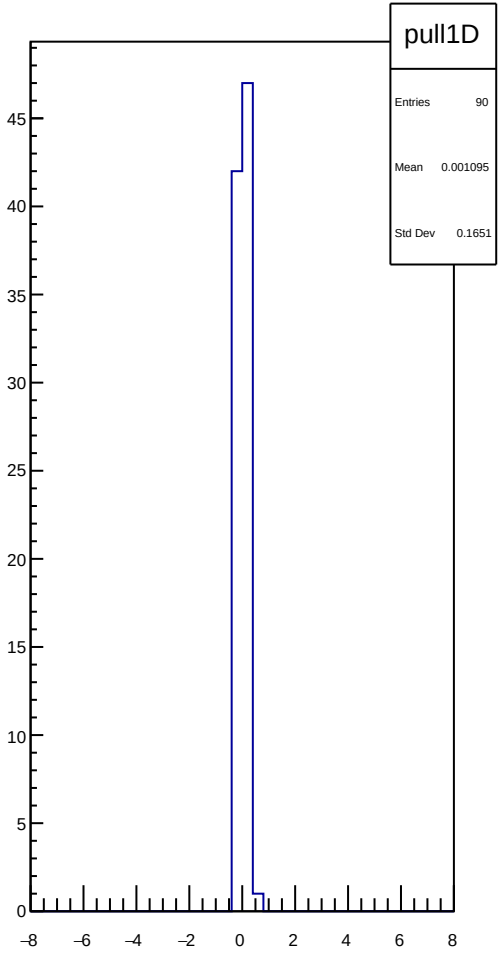

pull1D
Entries 90
Mean −0.01298
Std Dev 0.471

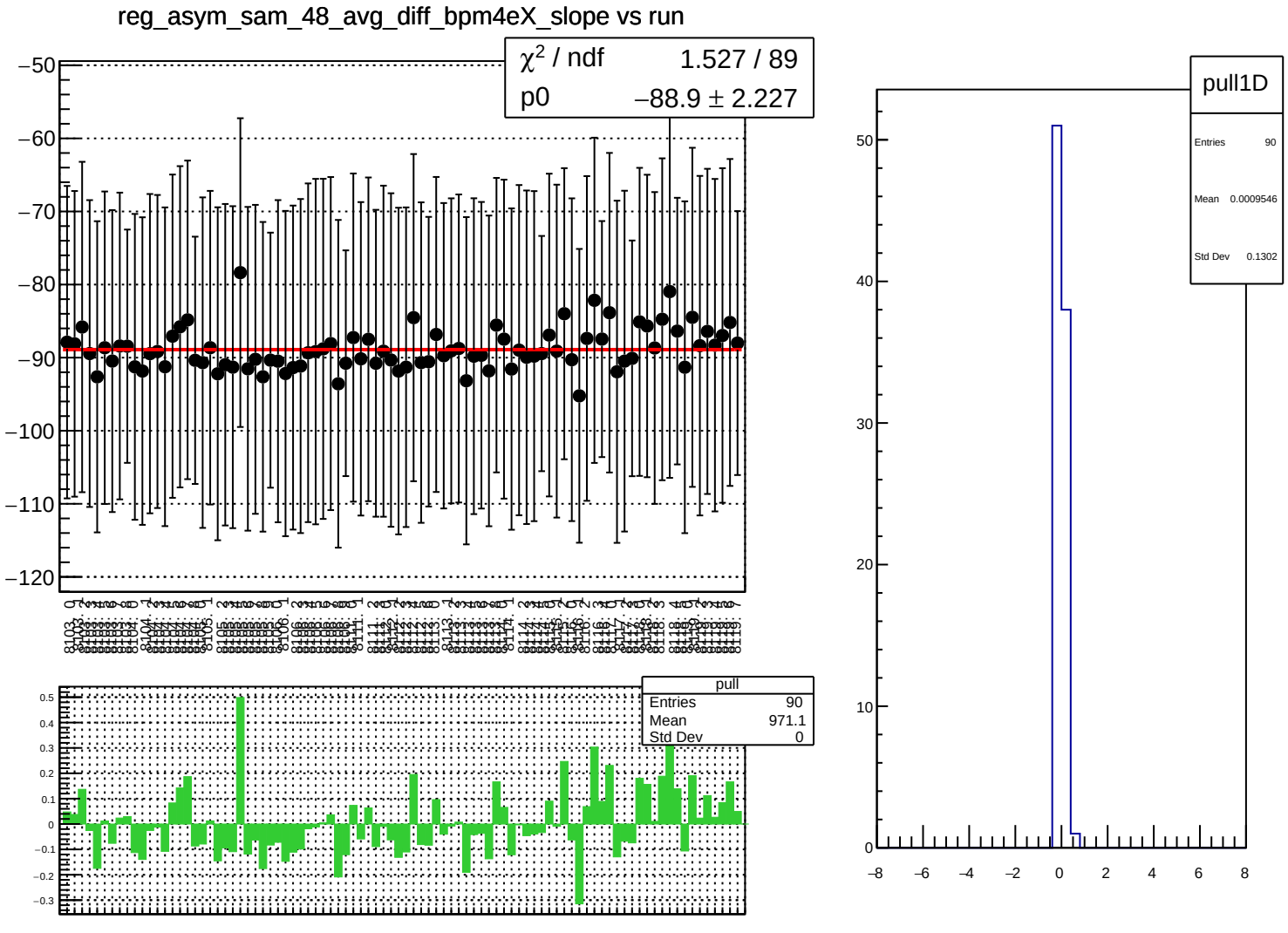

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 5.901 / 89
p0 2.825 ± 0.1909
pull
Entries 90
Mean −6.324e+04
Std Dev 0
pull1D
Entries 90
Mean 6.881e−05
Std Dev 0.256

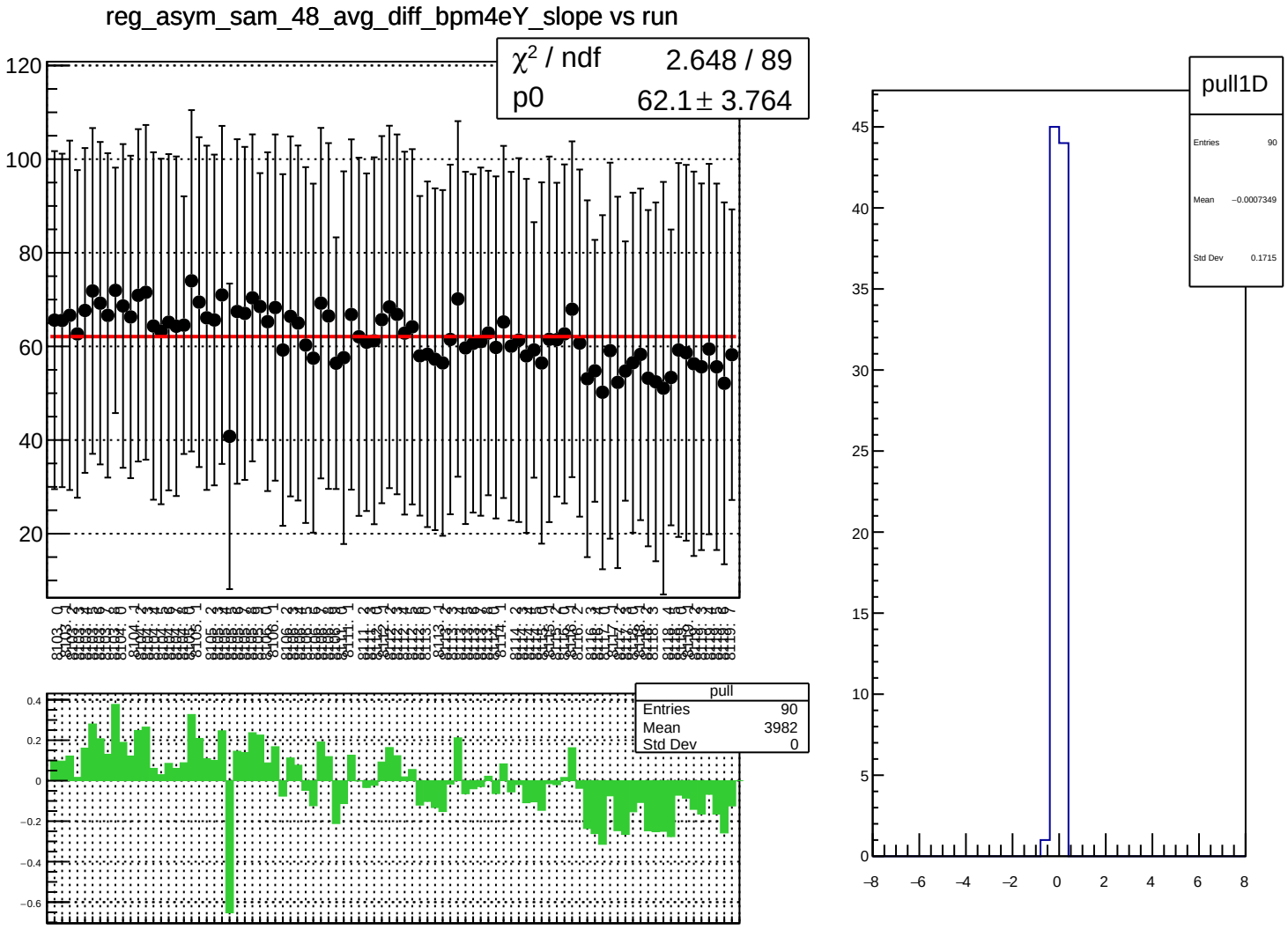

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 1.414 / 89
p0 −24.12 ± 2.342
pull
Entries 90
Mean 711
Std Dev 0

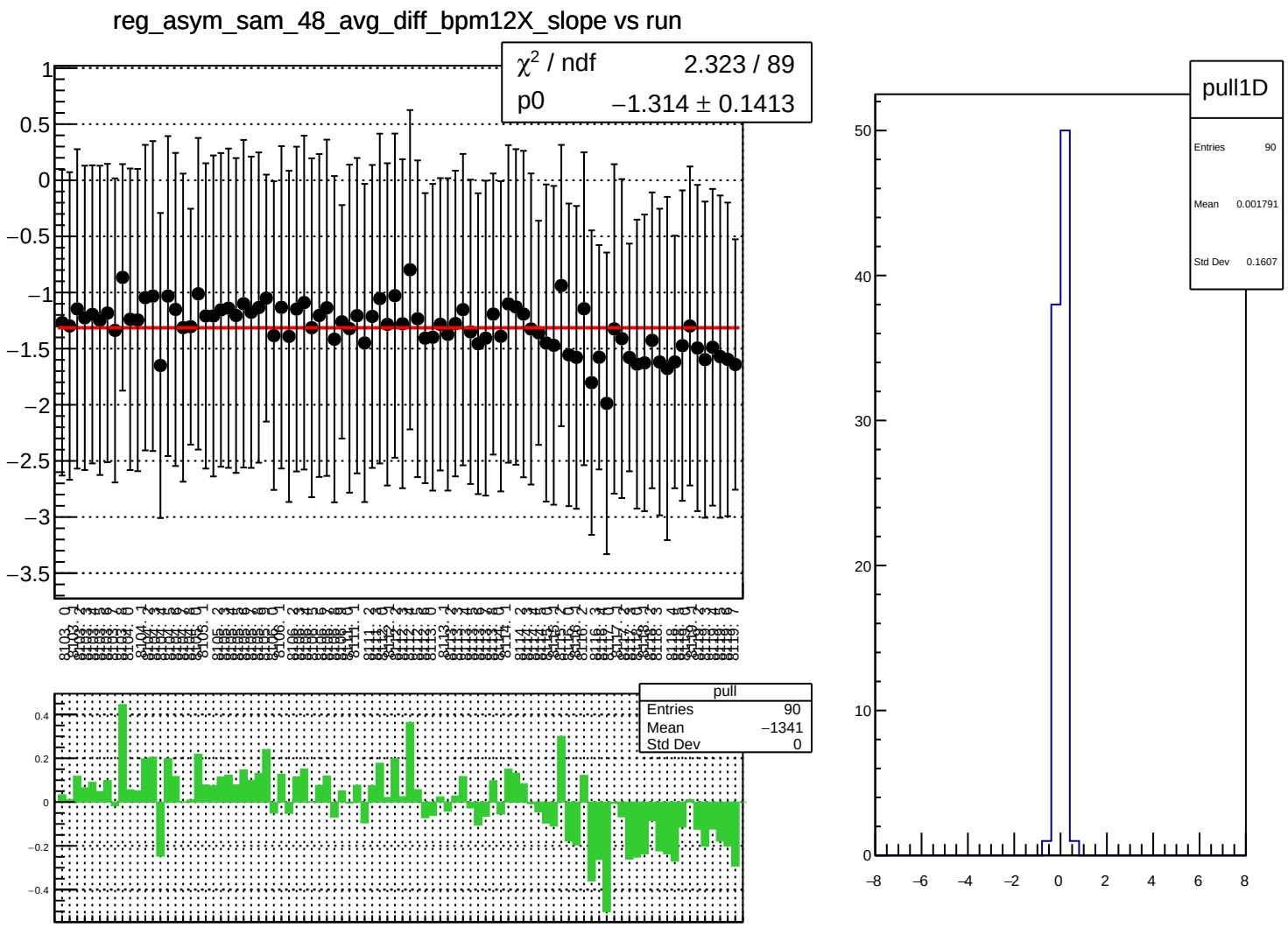

pull1D
Entries 90
Mean −0.001355
Std Dev 0.1253

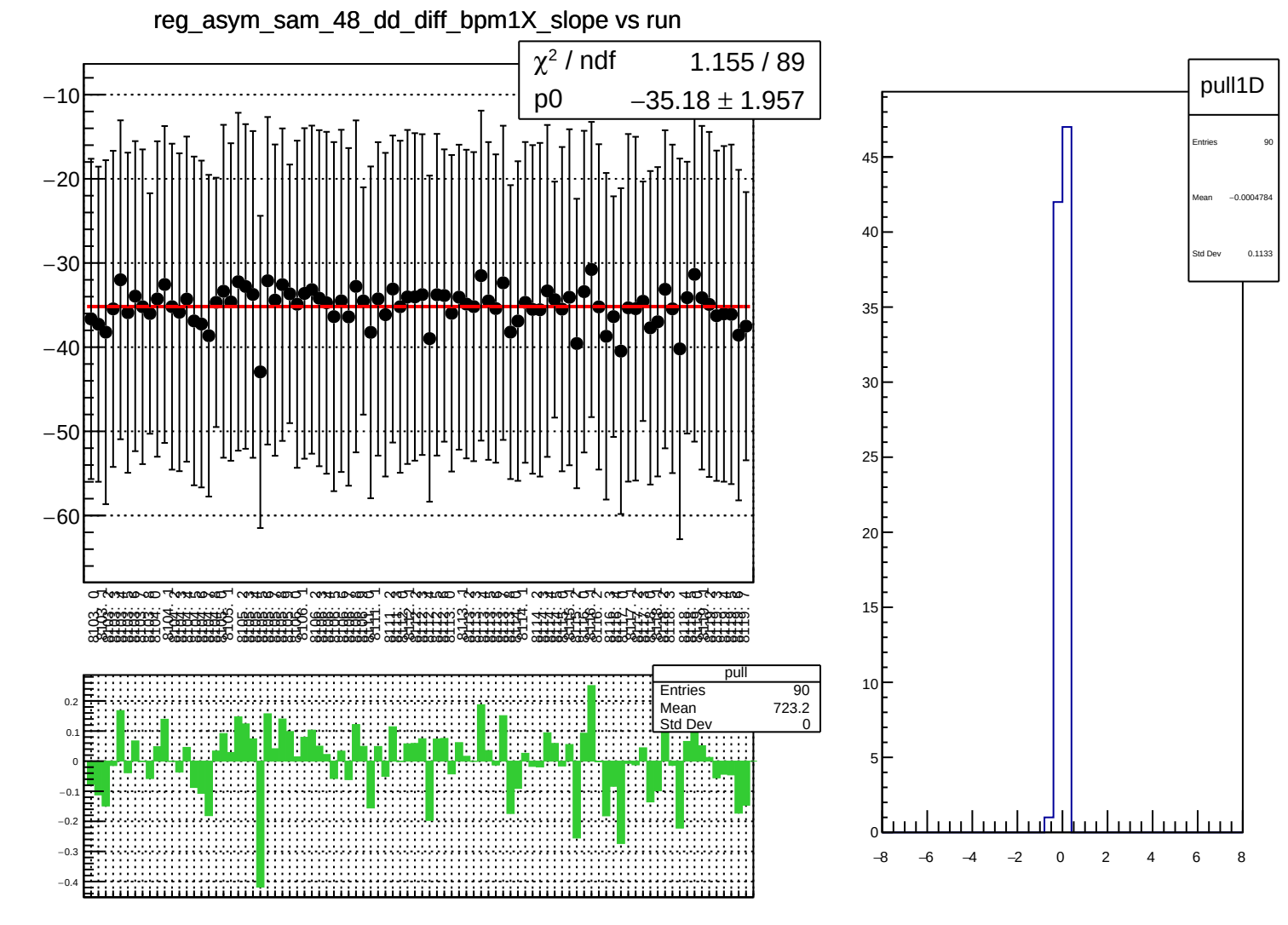

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.454 / 89
p0 54.73 ± 3.52
pull
Entries 90
Mean 2695
Std Dev 0

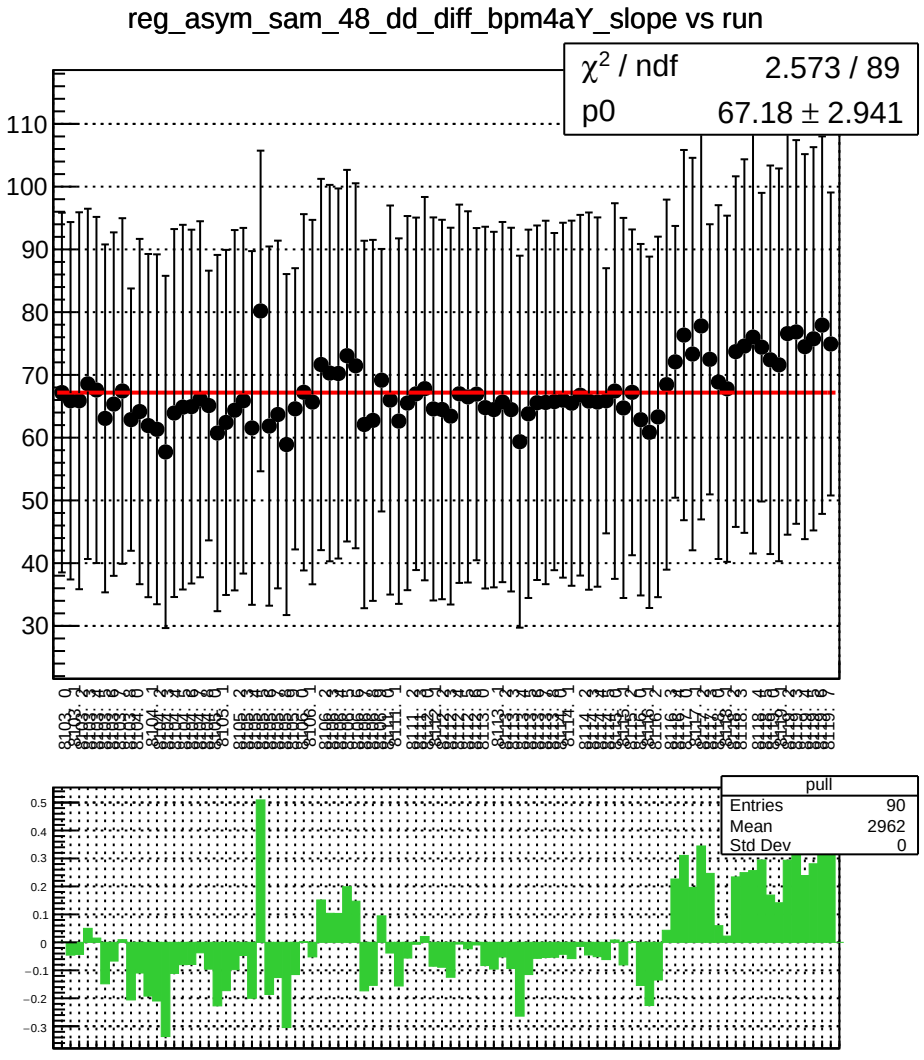

pull1D
Entries 90
Mean 0.001095
Std Dev 0.1651

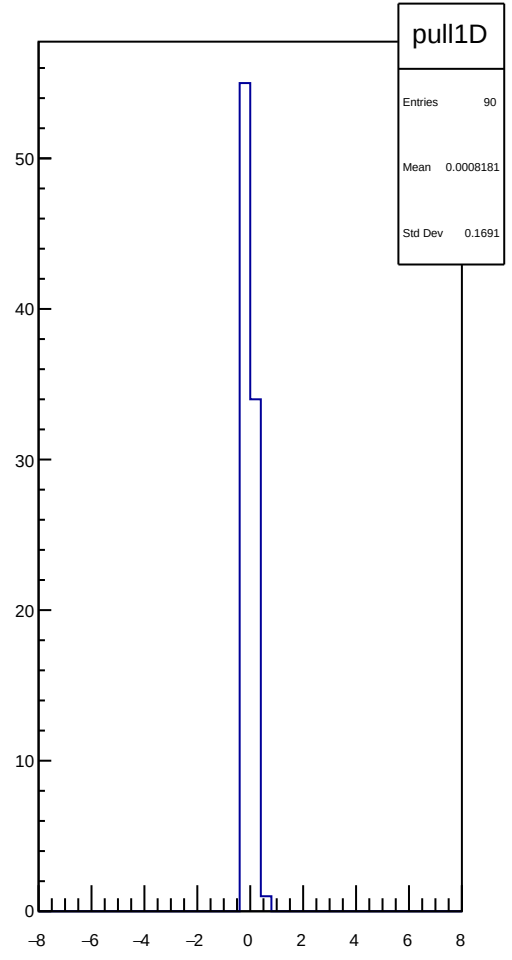

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.527 / 89
p0 −88.9 ± 2.227
pull
Entries 90
Mean 971.1
Std Dev 0
pull1D
Entries 90
Mean 0.0009546
Std Dev 0.1302

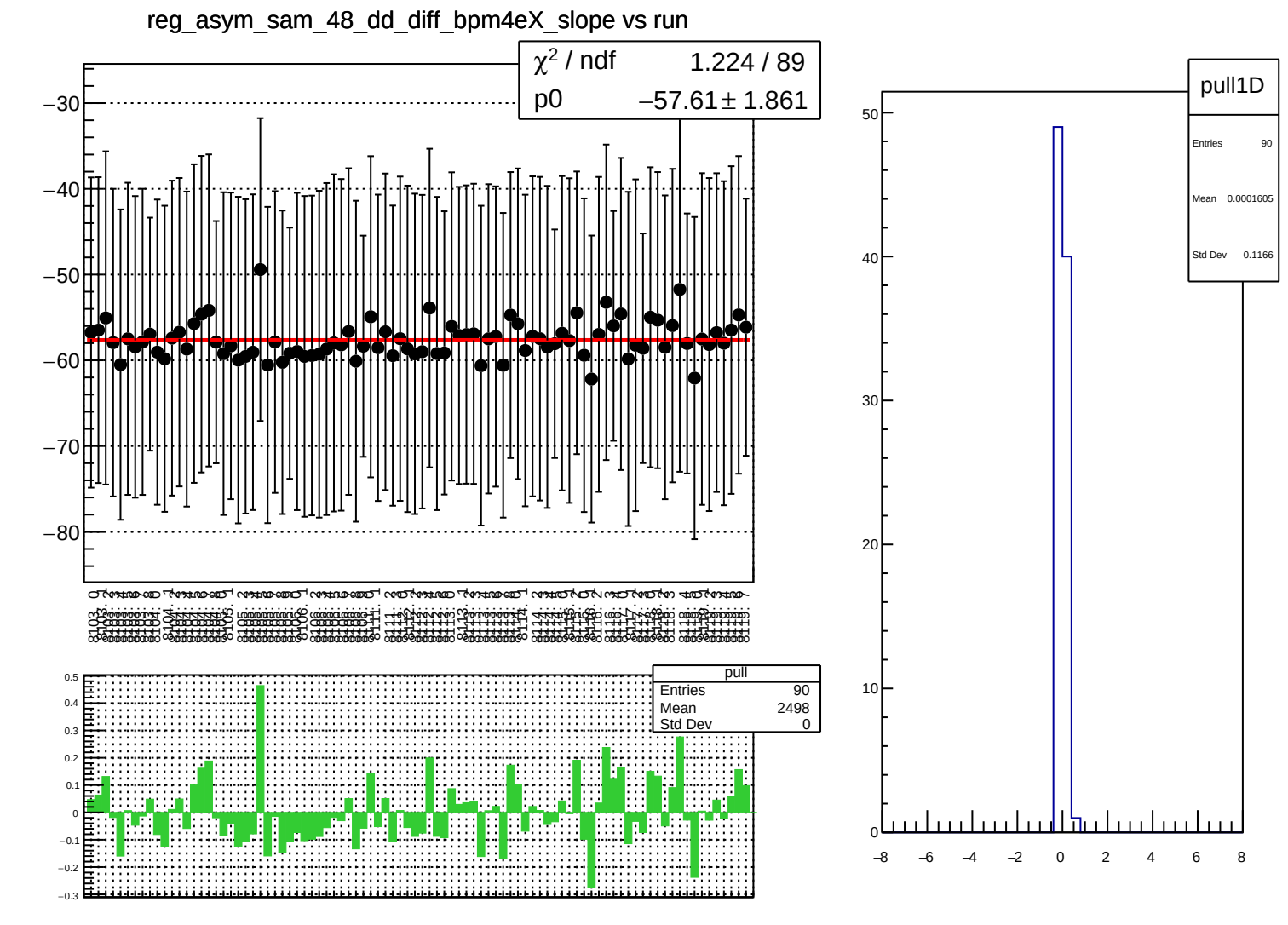

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.648 / 89
p0 62.1 ± 3.764
120
100
80
60
40
20
pull
Entries 90
Mean 3982
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 90
Mean −0.0007349
Std Dev 0.1715
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

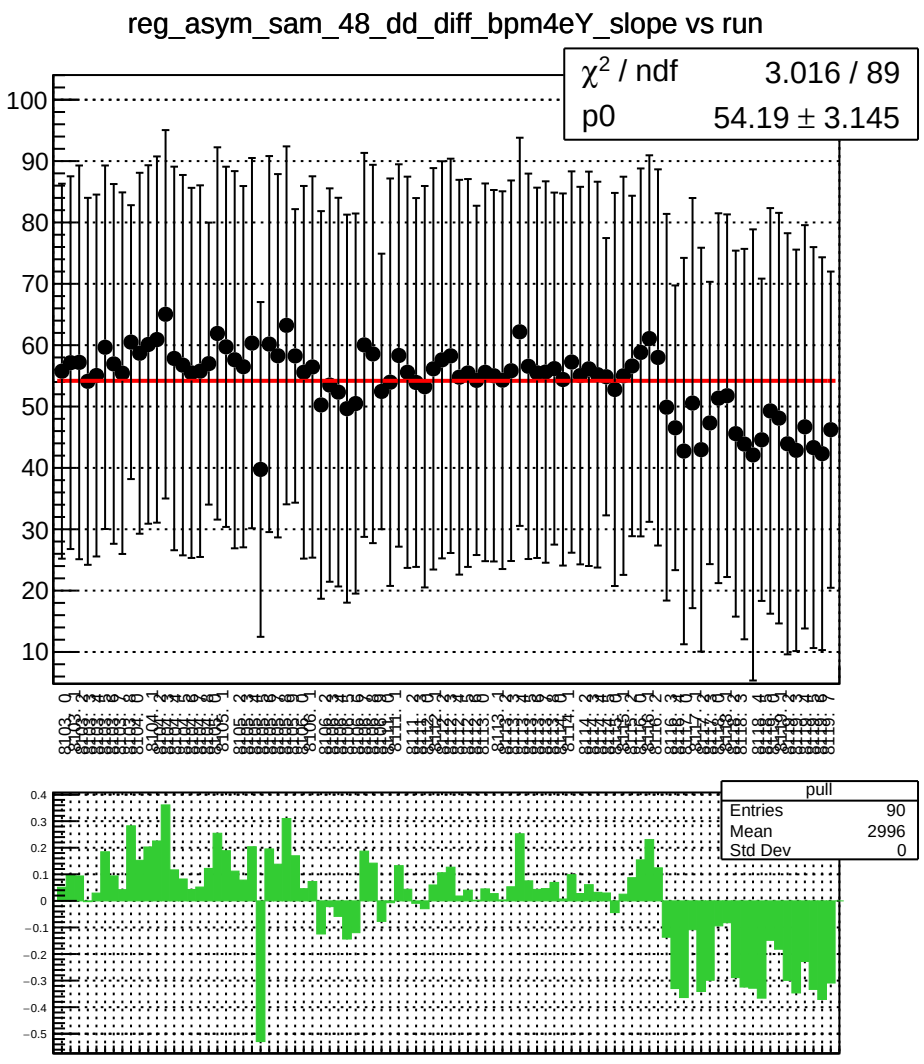

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 2.323 / 89
p0 −1.314 ± 0.1413
pull
Entries 90
Mean −1341
Std Dev 0
pull1D
Entries 90
Mean 0.001791
Std Dev 0.1607

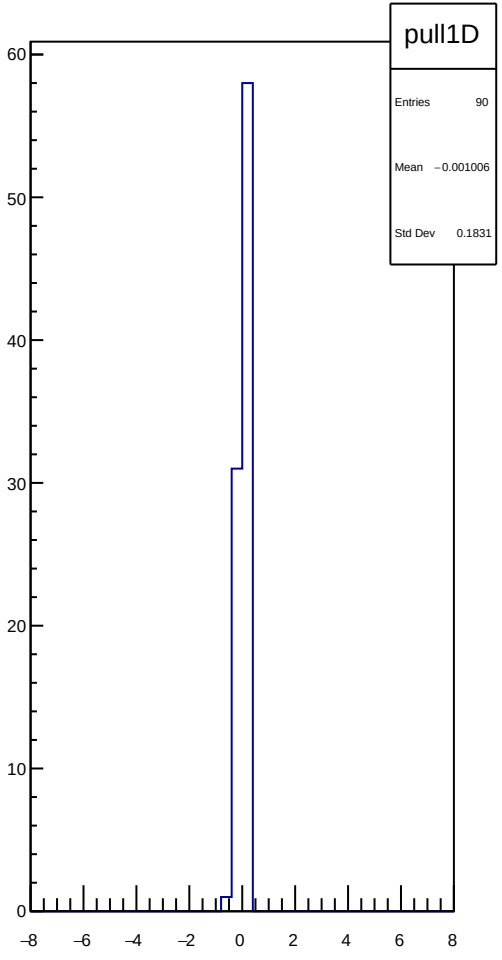

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.155 / 89
p0 −35.18 ± 1.957
pull
Entries 90
Mean 723.2
Std Dev 0
pull1D
Entries 90
Mean −0.0004784
Std Dev 0.1133

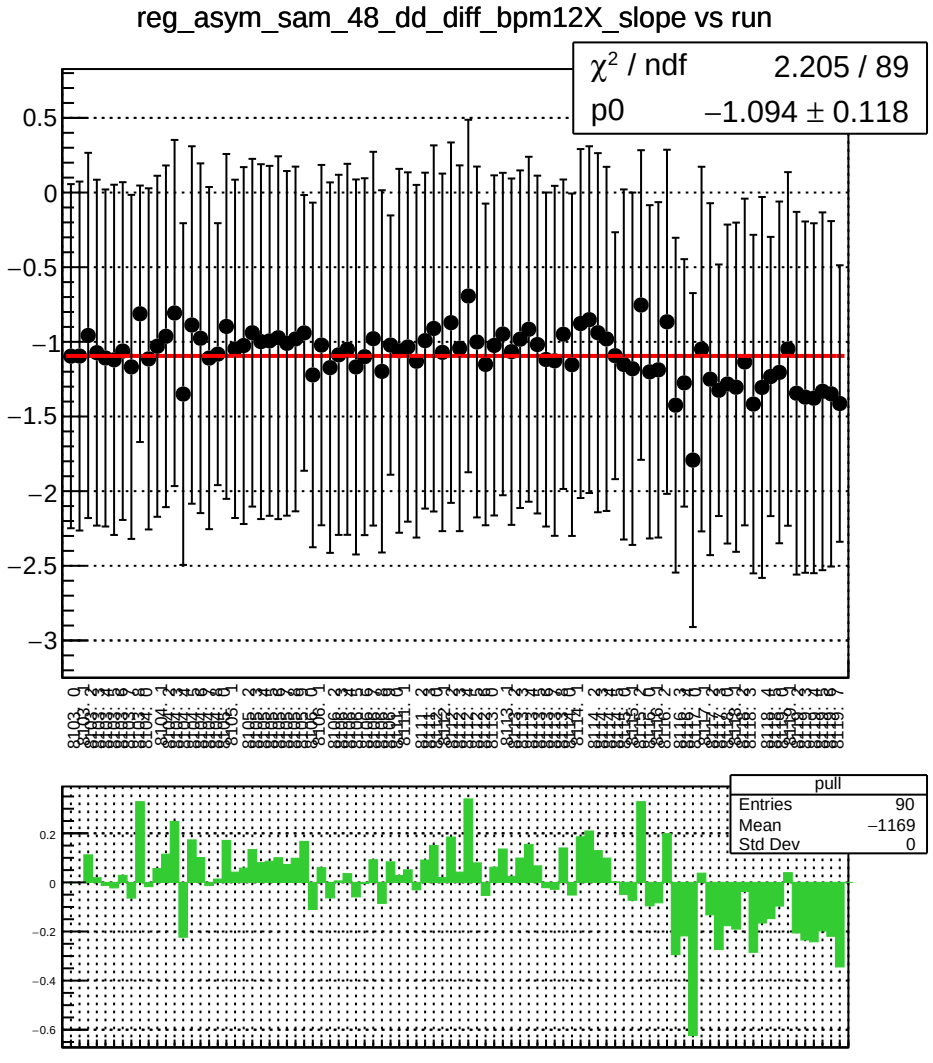

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.573 / 89
p0 67.18 ± 2.941
pull
Entries 90
Mean 2962
Std Dev 0

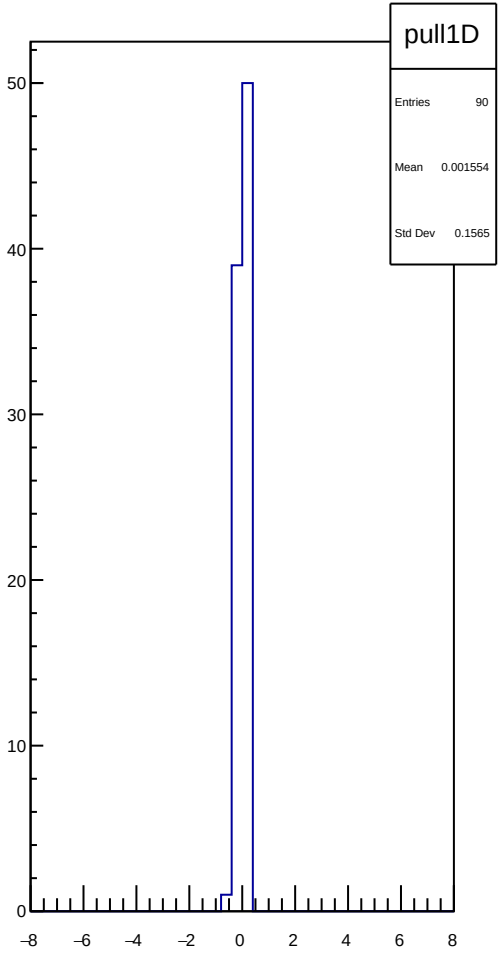

pull1D
Entries 90
Mean 0.0008181
Std Dev 0.1691

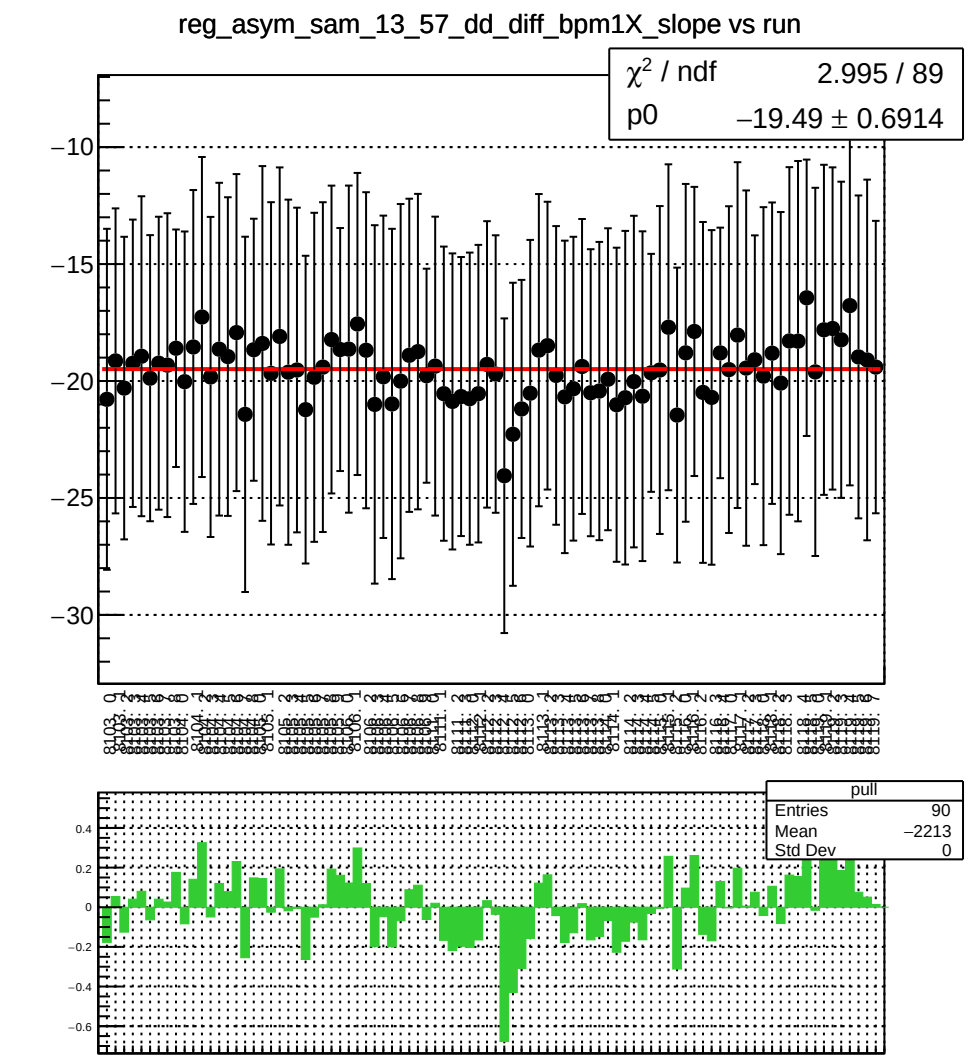

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.224 / 89
p0 −57.61 ± 1.861
−30
−40
−50
−60
−70
−80
pull
Entries 90
Mean 2498
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 90
Mean 0.0001605
Std Dev 0.1166
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

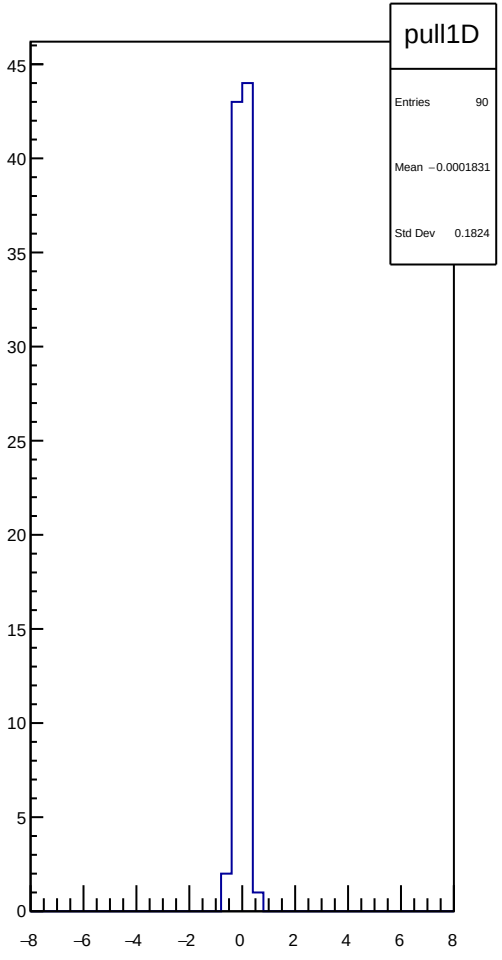

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.016 / 89
p0 54.19 ± 3.145
pull
Entries 90
Mean 2996
Std Dev 0

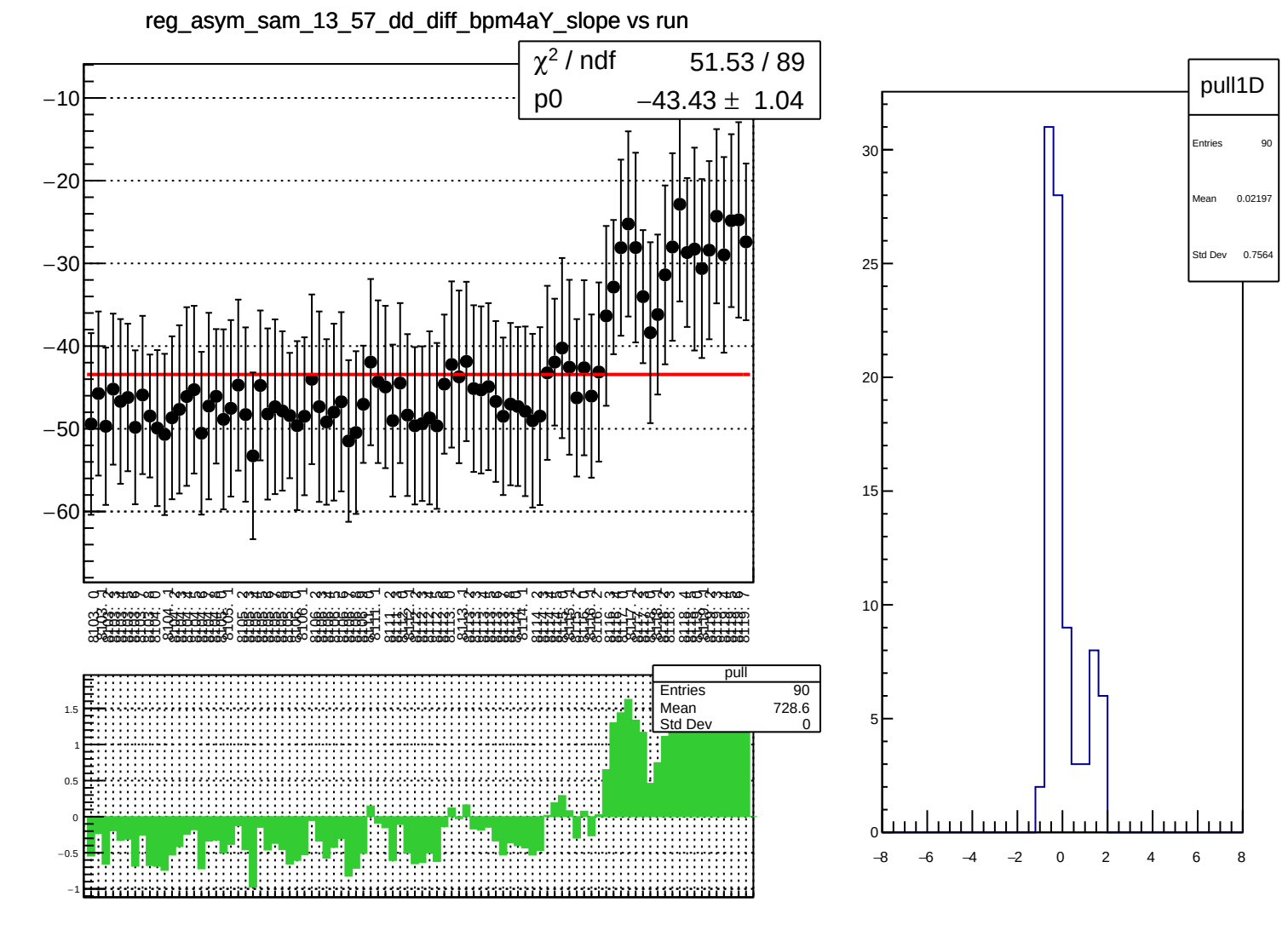

pull1D
Entries 90
Mean −0.001006
Std Dev 0.1831

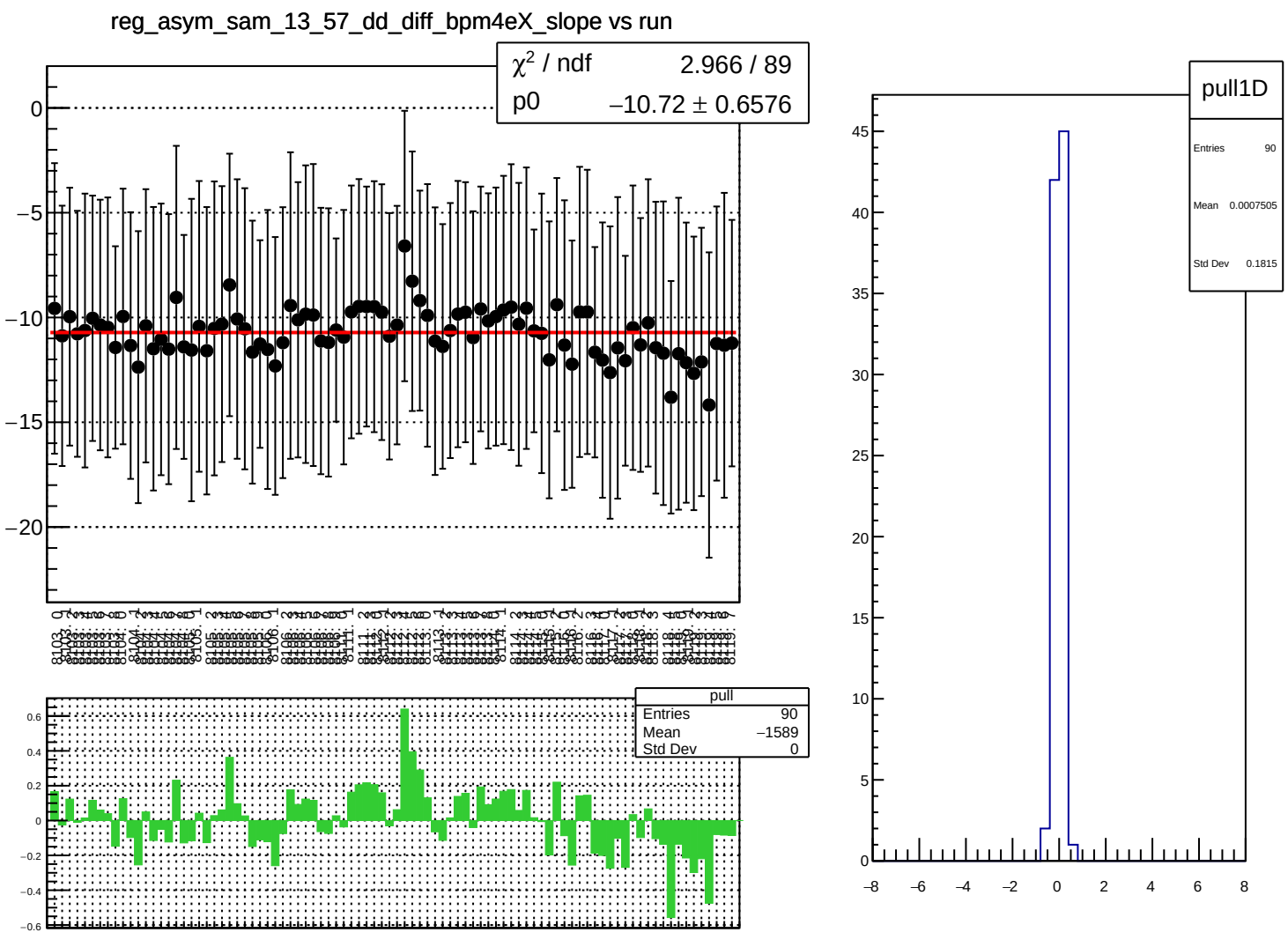

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.205 / 89
p0 −1.094 ± 0.118
pull
Entries 90
Mean −1169
Std Dev 0

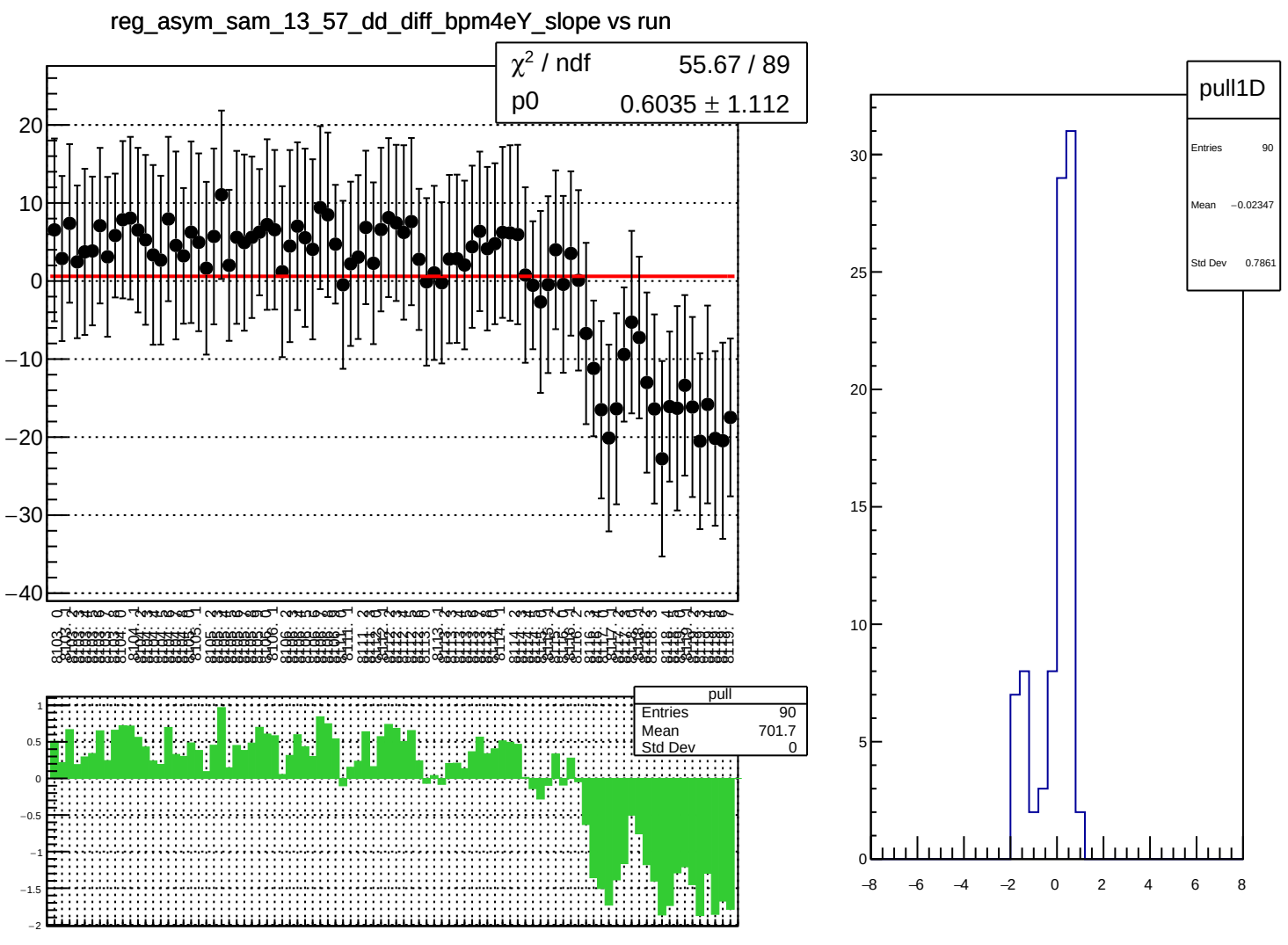

pull1D
Entries 90
Mean 0.001554
Std Dev 0.1565

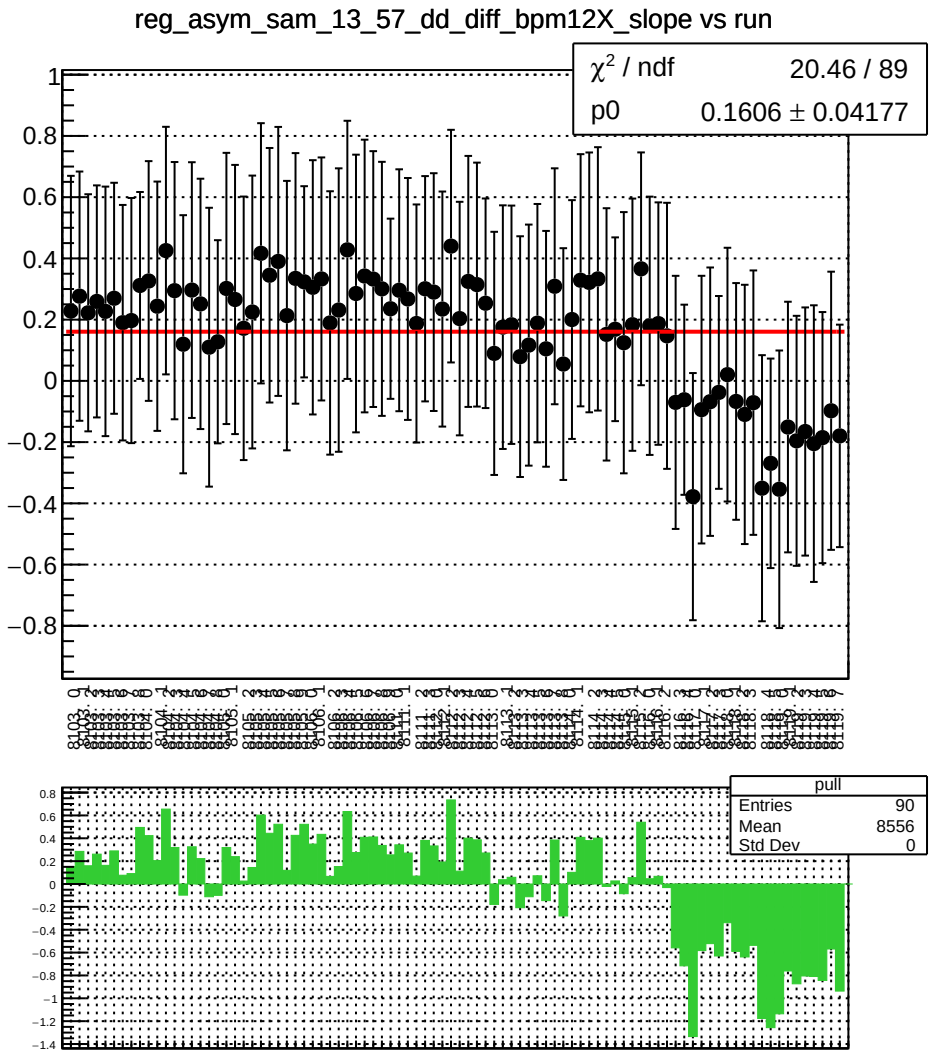

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.995 / 89
p0 −19.49 ± 0.6914
pull
Entries 90
Mean −2213
Std Dev 0

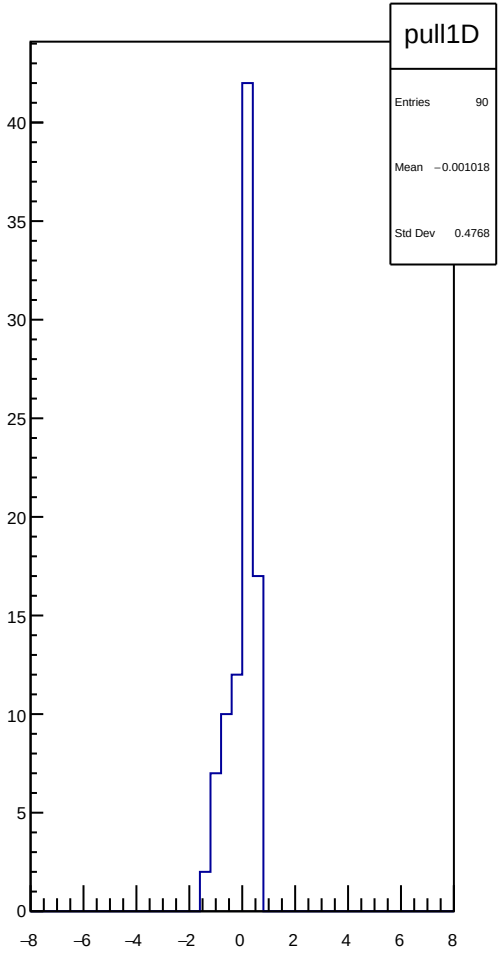

pull1D
Entries 90
Mean −0.0001831
Std Dev 0.1824

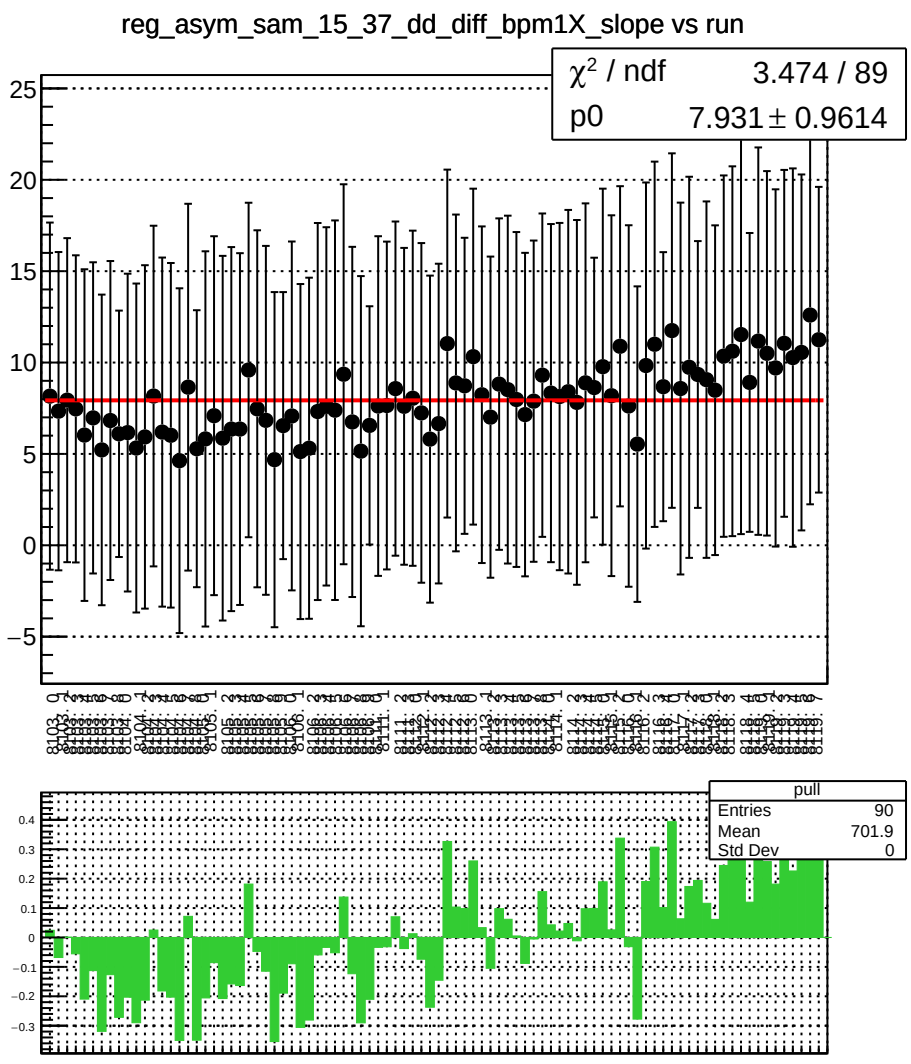

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.53 / 89
p0 −43.43 ± 1.04
pull
Entries 90
Mean 728.6
Std Dev 0
pull1D
Entries 90
Mean 0.02197
Std Dev 0.7564

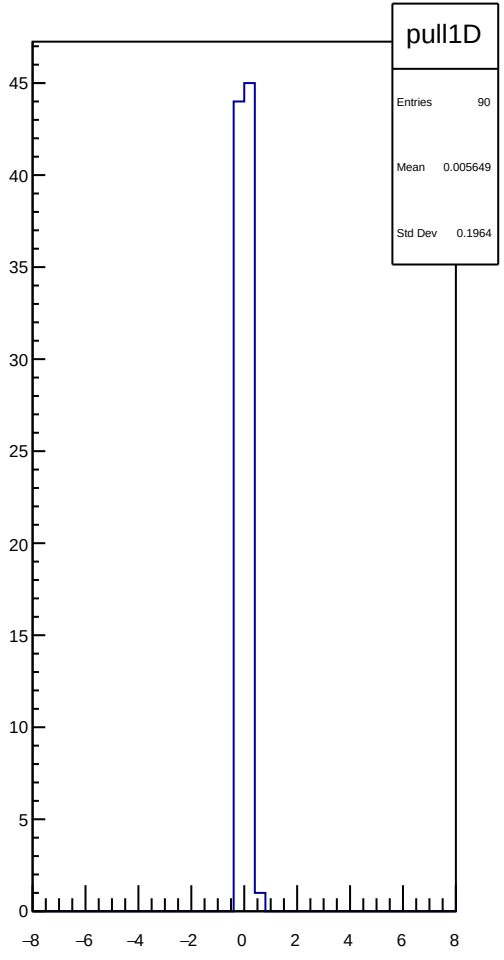

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.966 / 89
p0 −10.72 ± 0.6576
pull
Entries 90
Mean −1589
Std Dev 0
pull1D
Entries 90
Mean 0.0007505
Std Dev 0.1815

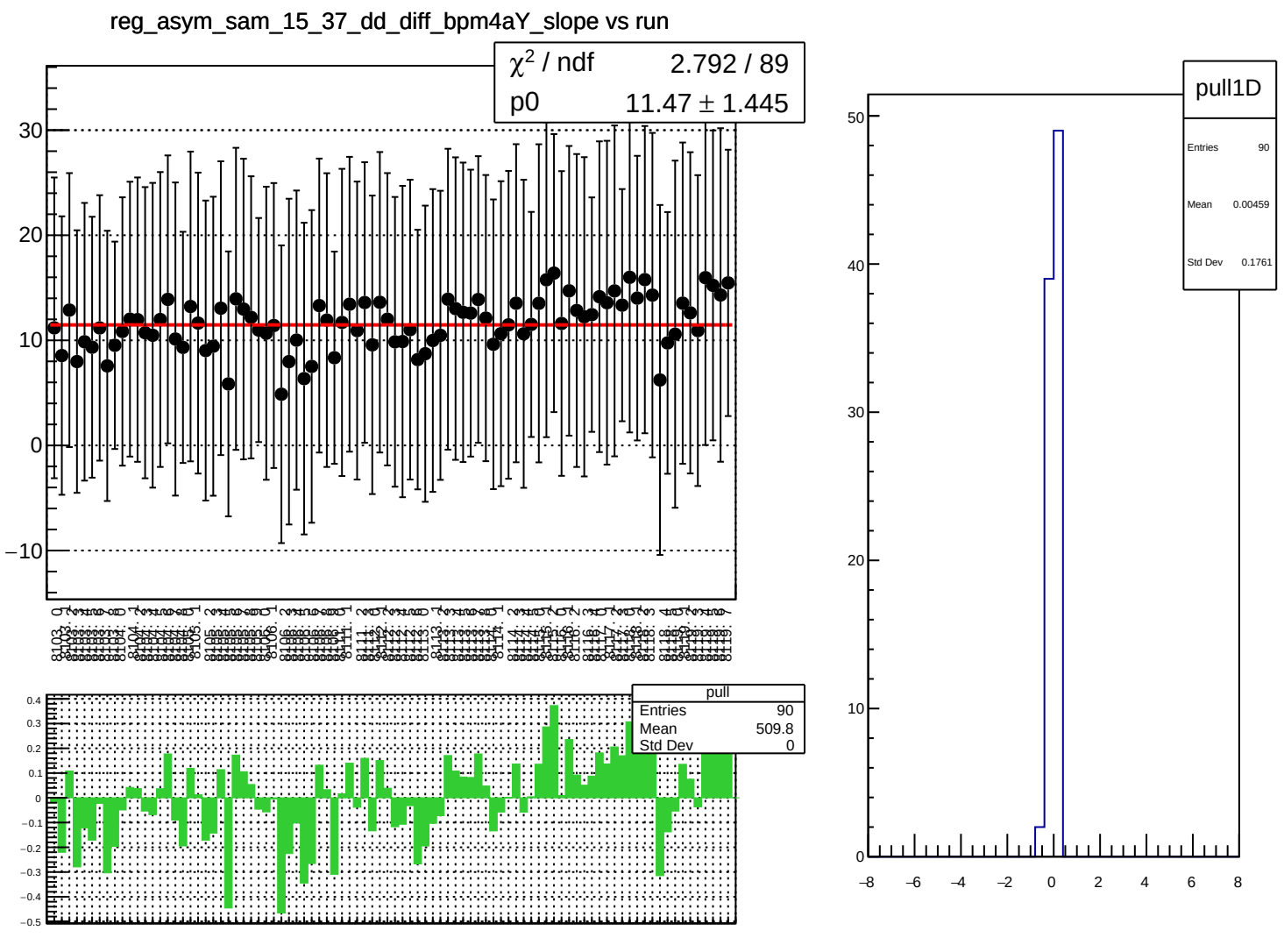

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.67 / 89
p0 0.6035 ± 1.112
pull
Entries 90
Mean 701.7
Std Dev 0
pull1D
Entries 90
Mean −0.02347
Std Dev 0.7861

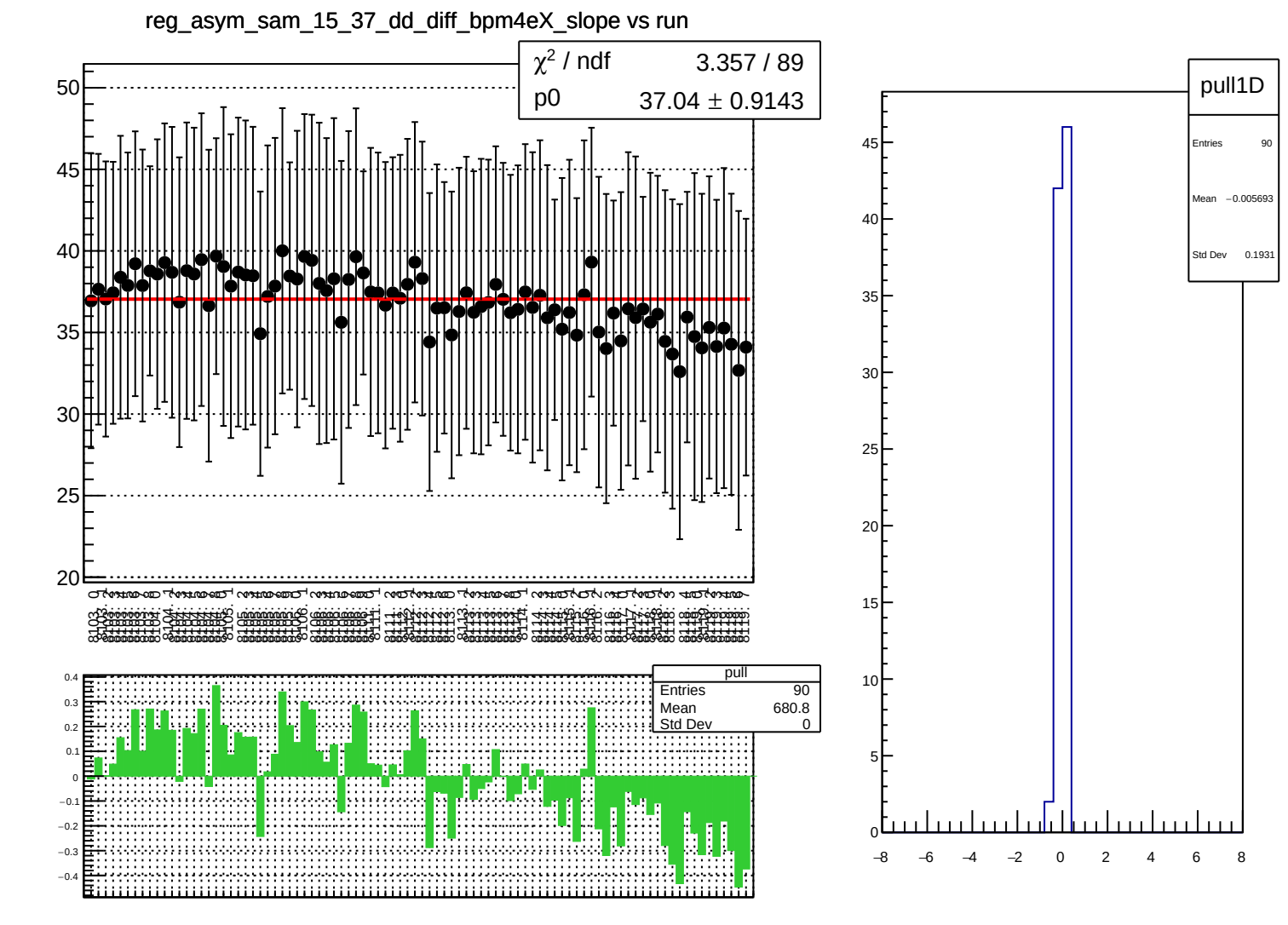

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 20.46 / 89
p0 0.1606 ± 0.04177
pull
Entries 90
Mean 8556
Std Dev 0

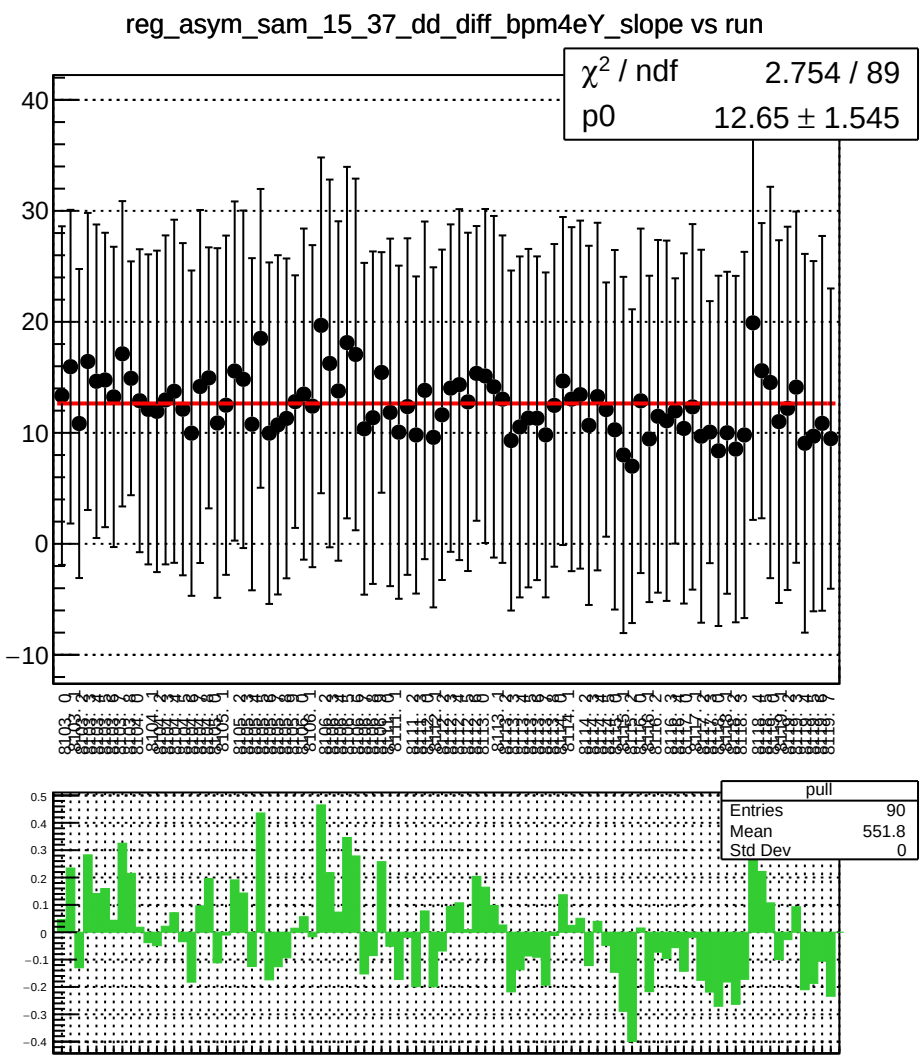

pull1D
Entries 90
Mean −0.001018
Std Dev 0.4768

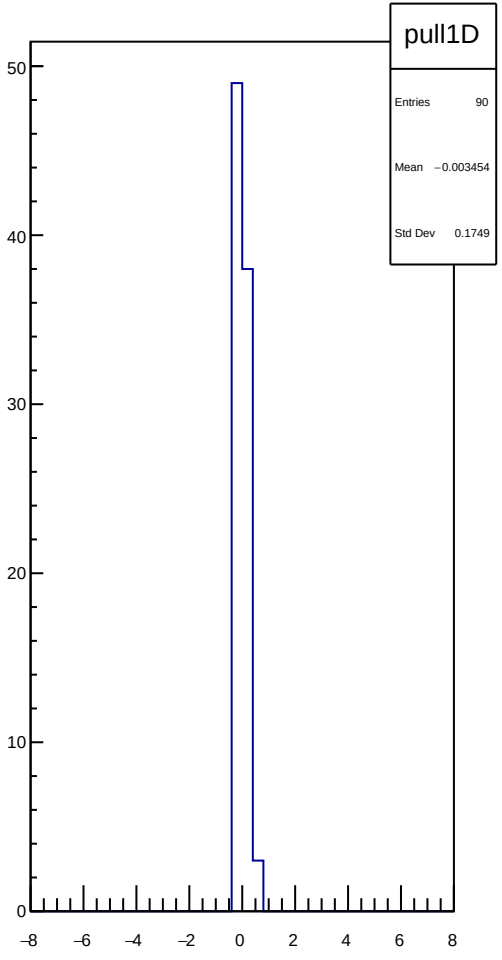

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.474 / 89
p0 7.931 ± 0.9614
pull
Entries 90
Mean 701.9
Std Dev 0

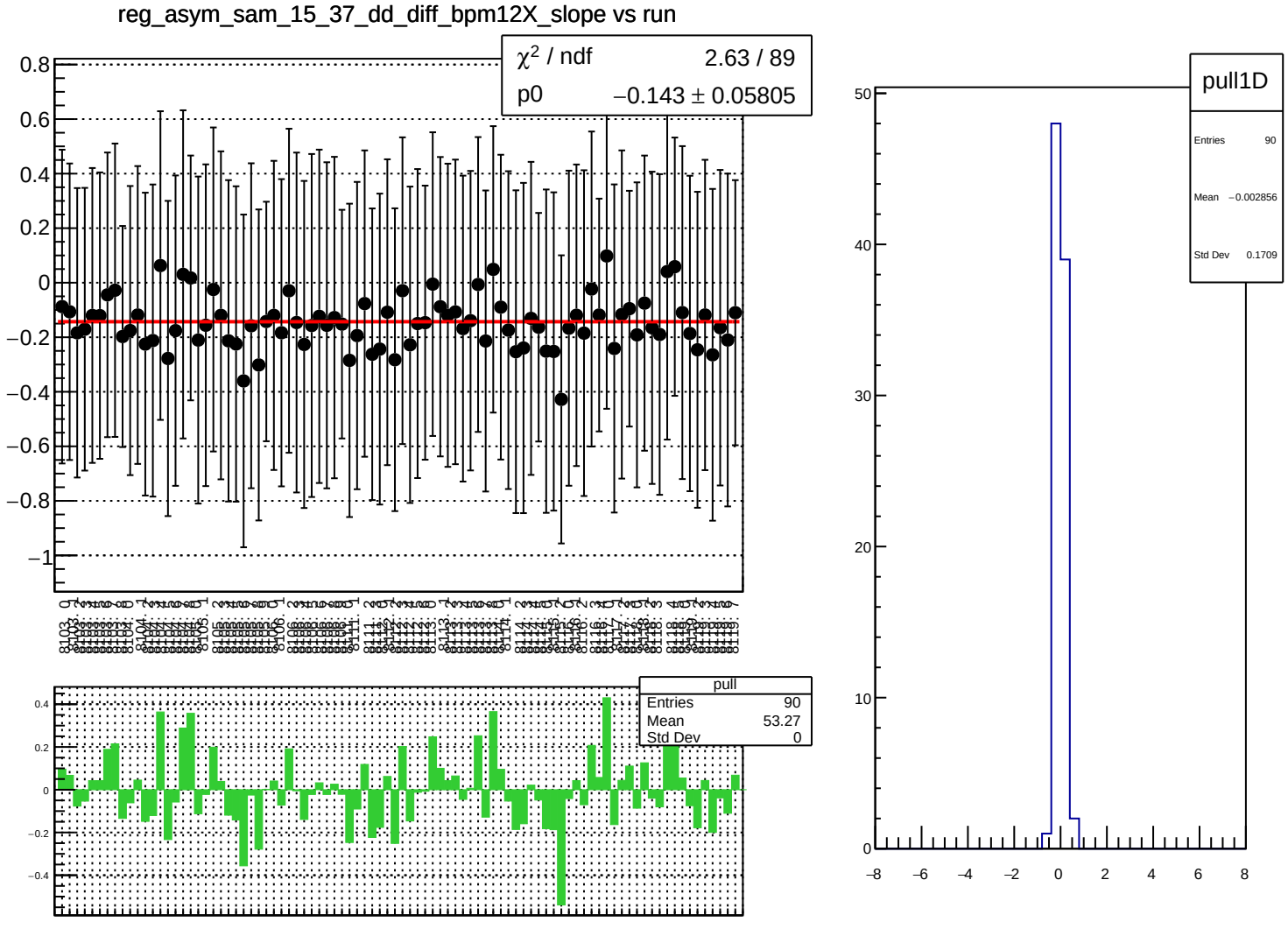

pull1D
Entries 90
Mean 0.005649
Std Dev 0.1964

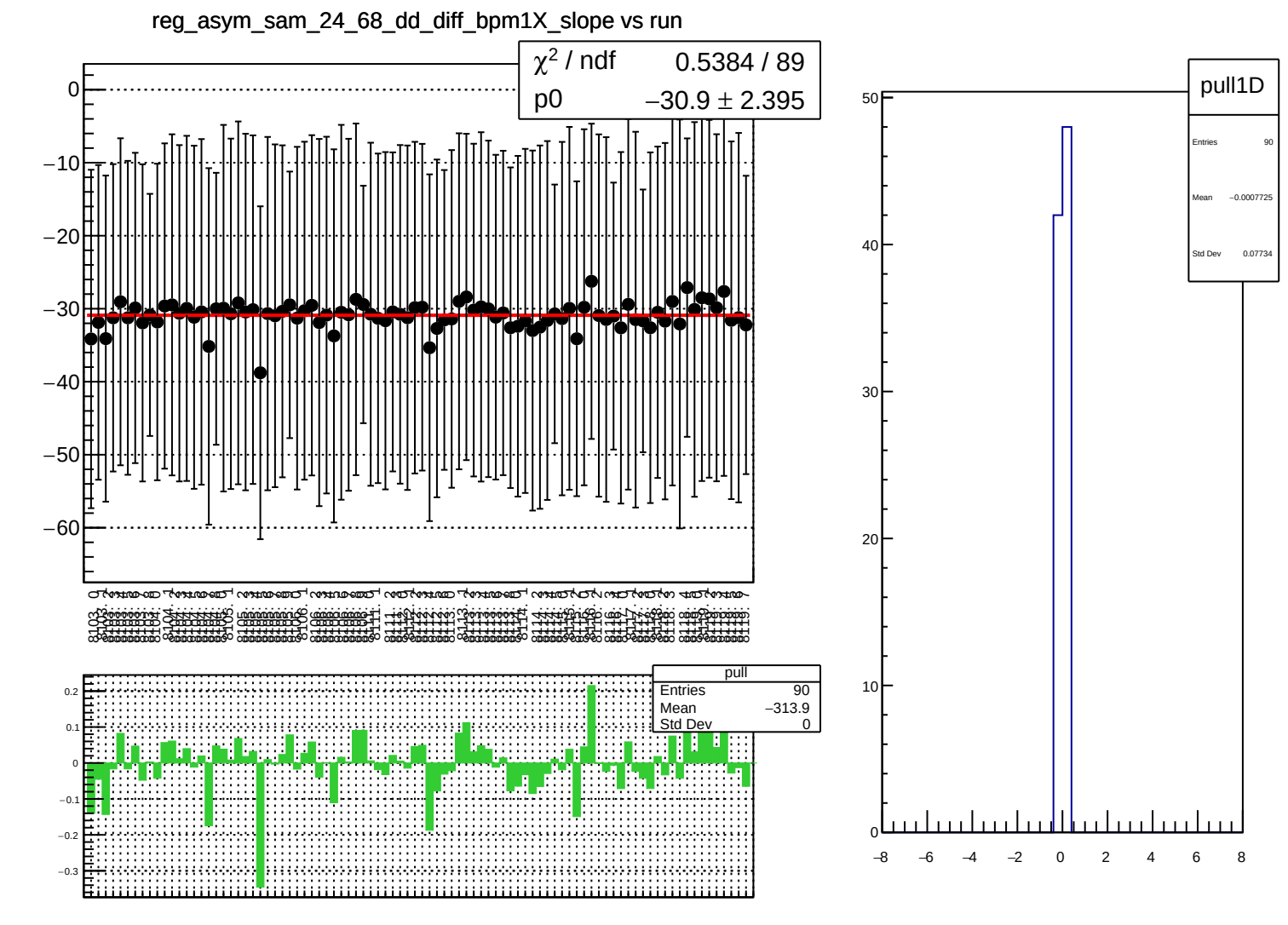

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.792 / 89
p0 11.47 ± 1.445
30
20
10
0
−10
pull
Entries 90
Mean 509.8
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 90
Mean 0.00459
Std Dev 0.1761
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

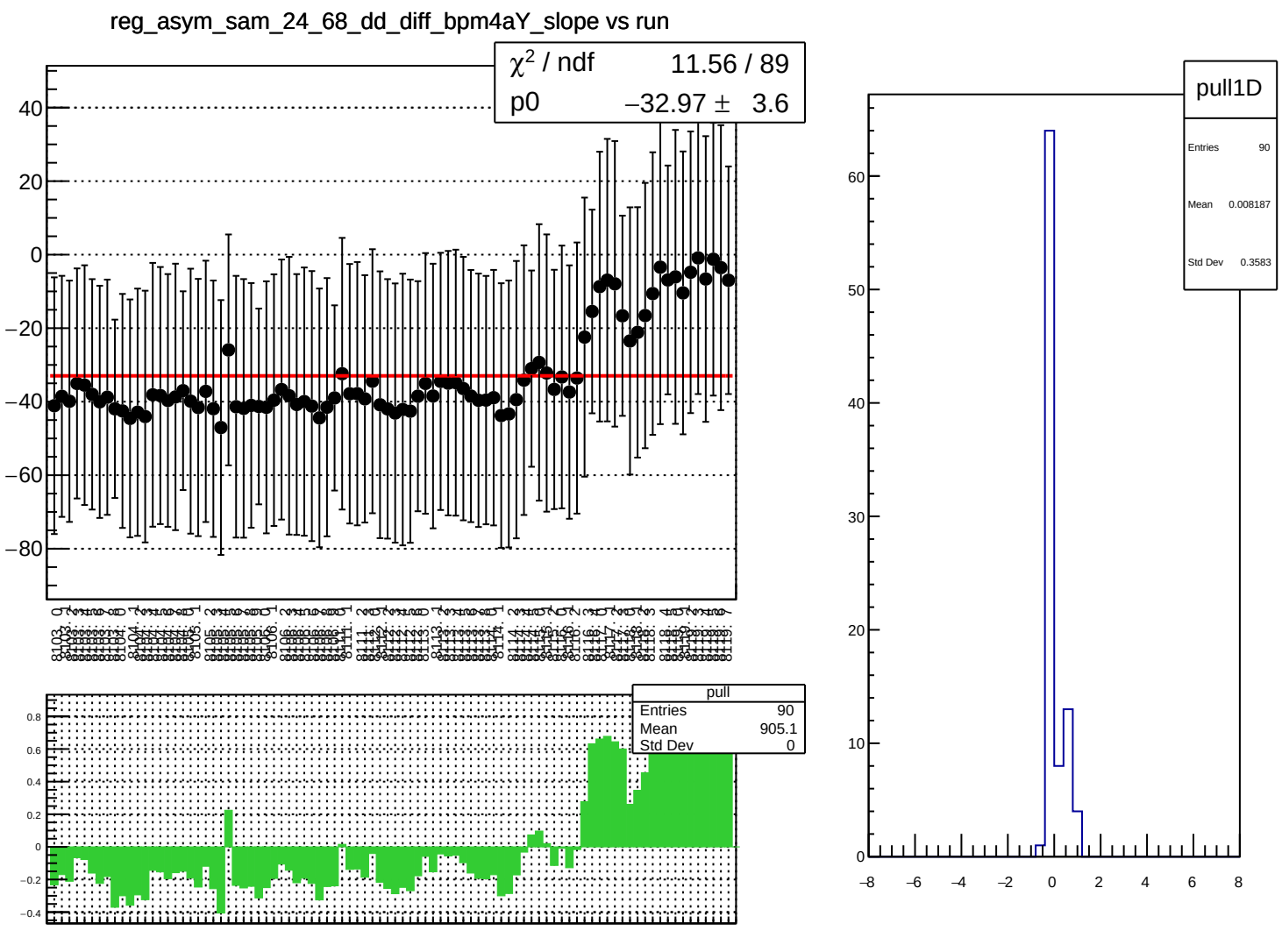

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.357 / 89
p0 37.04 ± 0.9143
pull
Entries 90
Mean 680.8
Std Dev 0
pull1D
Entries 90
Mean −0.005693
Std Dev 0.1931

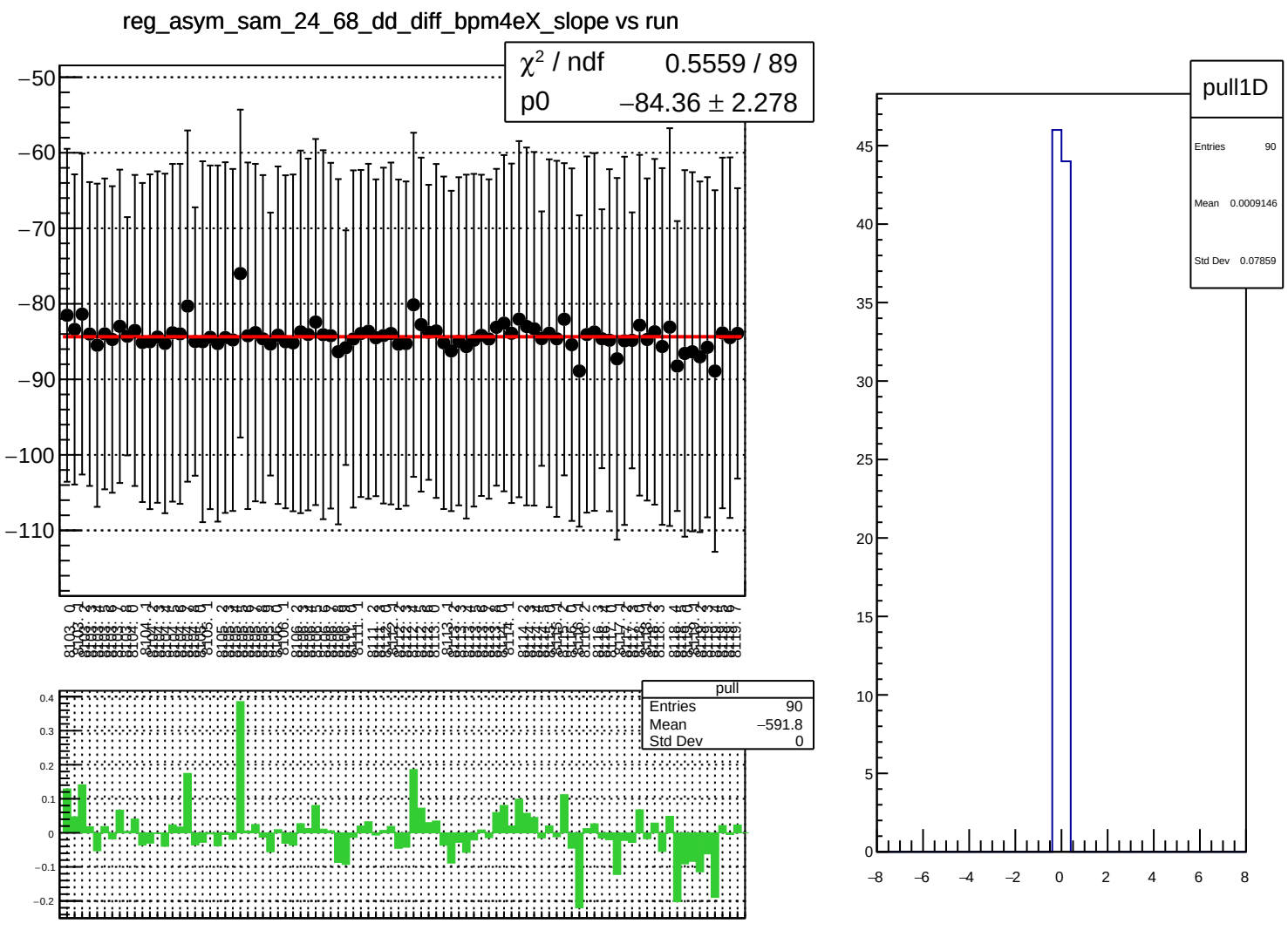

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.754 / 89
p0 12.65 ± 1.545
pull
Entries 90
Mean 551.8
Std Dev 0

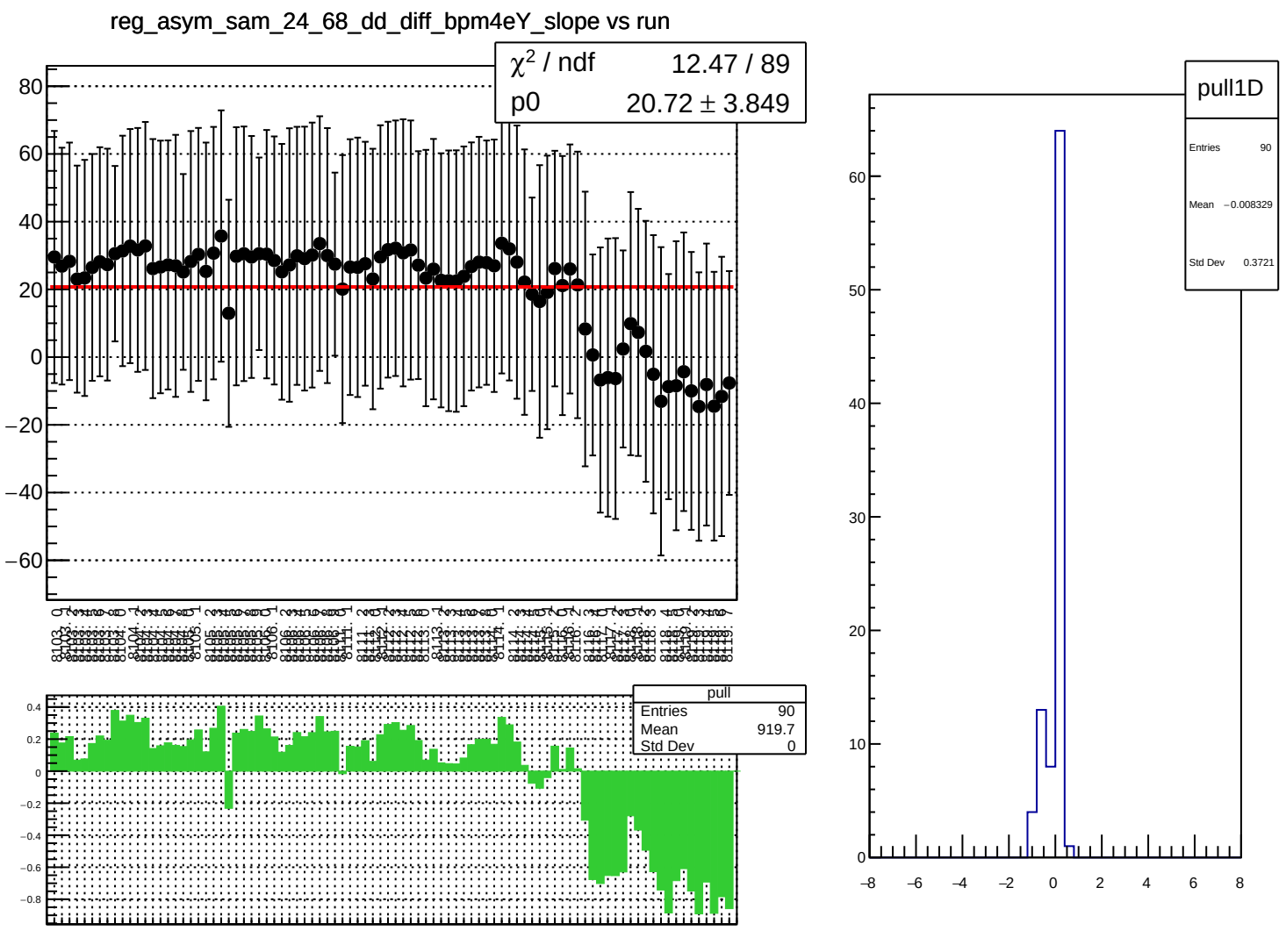

pull1D
Entries 90
Mean −0.003454
Std Dev 0.1749

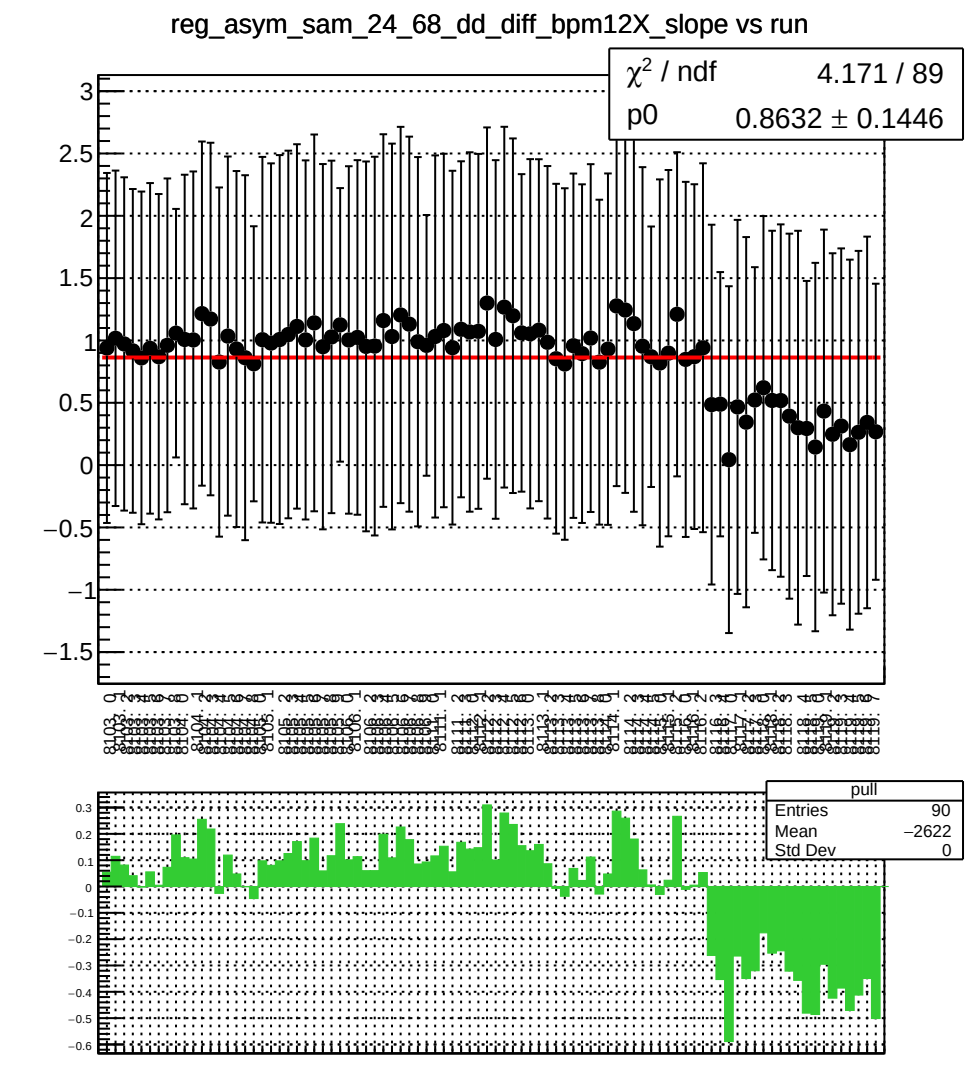

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.63 / 89
p0 −0.143 ± 0.05805
pull
Entries 90
Mean 53.27
Std Dev 0
pull1D
Entries 90
Mean −0.002856
Std Dev 0.1709

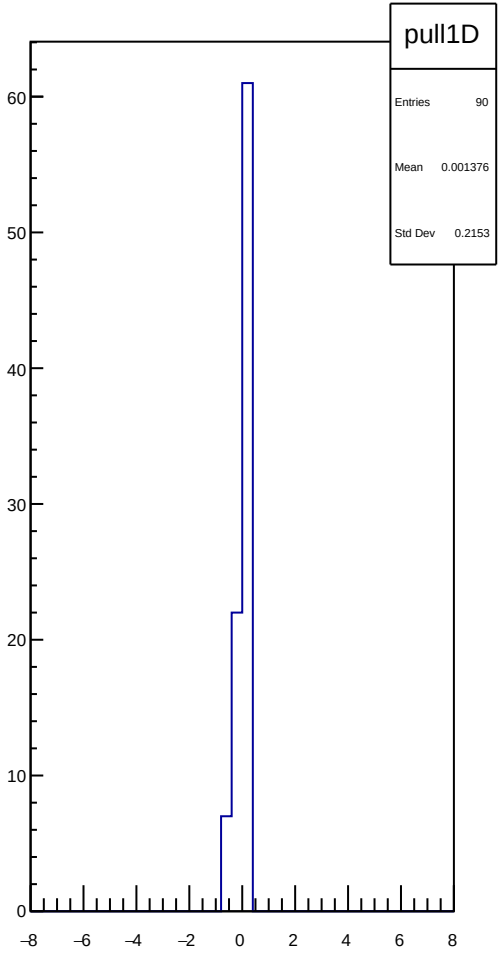

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.5384 / 89
p0 −30.9 ± 2.395
pull
Entries 90
Mean −313.9
Std Dev 0
pull1D
Entries 90
Mean −0.0007725
Std Dev 0.07734

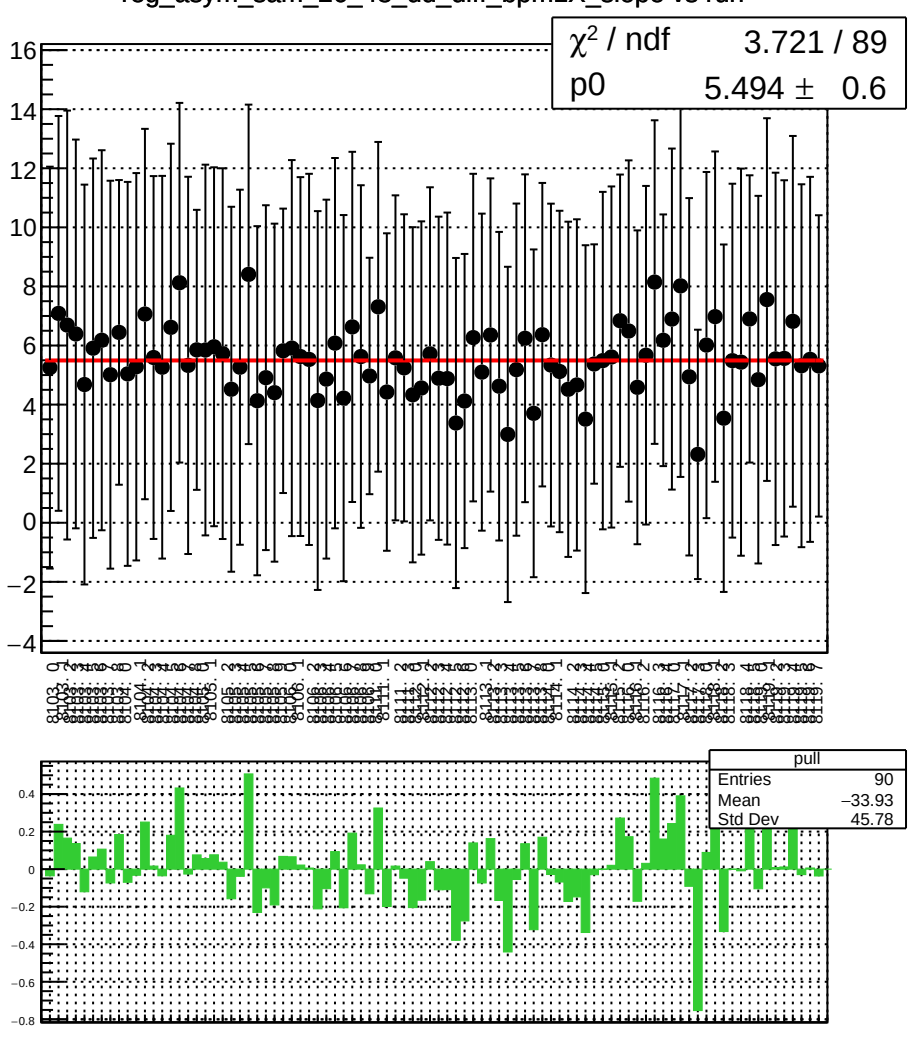

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.56 / 89
p0 −32.97 ± 3.6
pull
Entries 90
Mean 905.1
Std Dev 0
pull1D
Entries 90
Mean 0.008187
Std Dev 0.3583

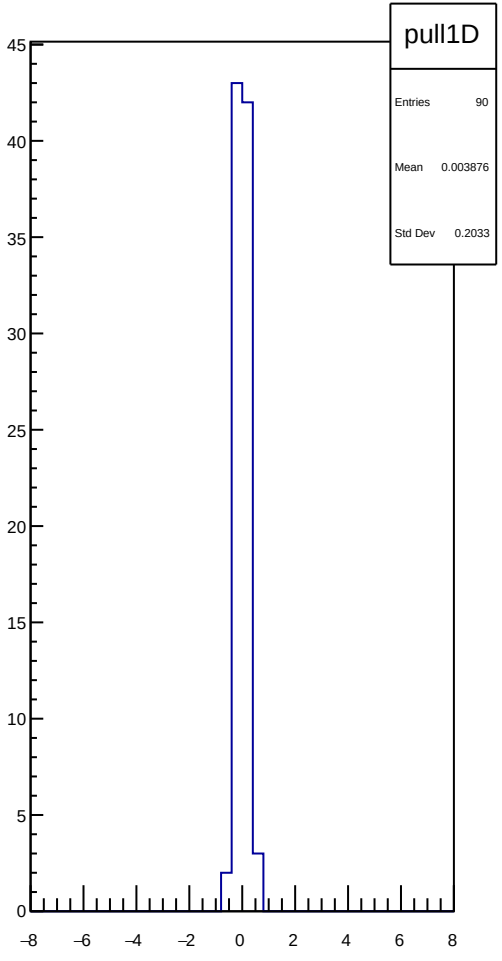

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.5559 / 89
p0 −84.36 ± 2.278
pull
Entries 90
Mean −591.8
Std Dev 0
pull1D
Entries 90
Mean 0.0009146
Std Dev 0.07859

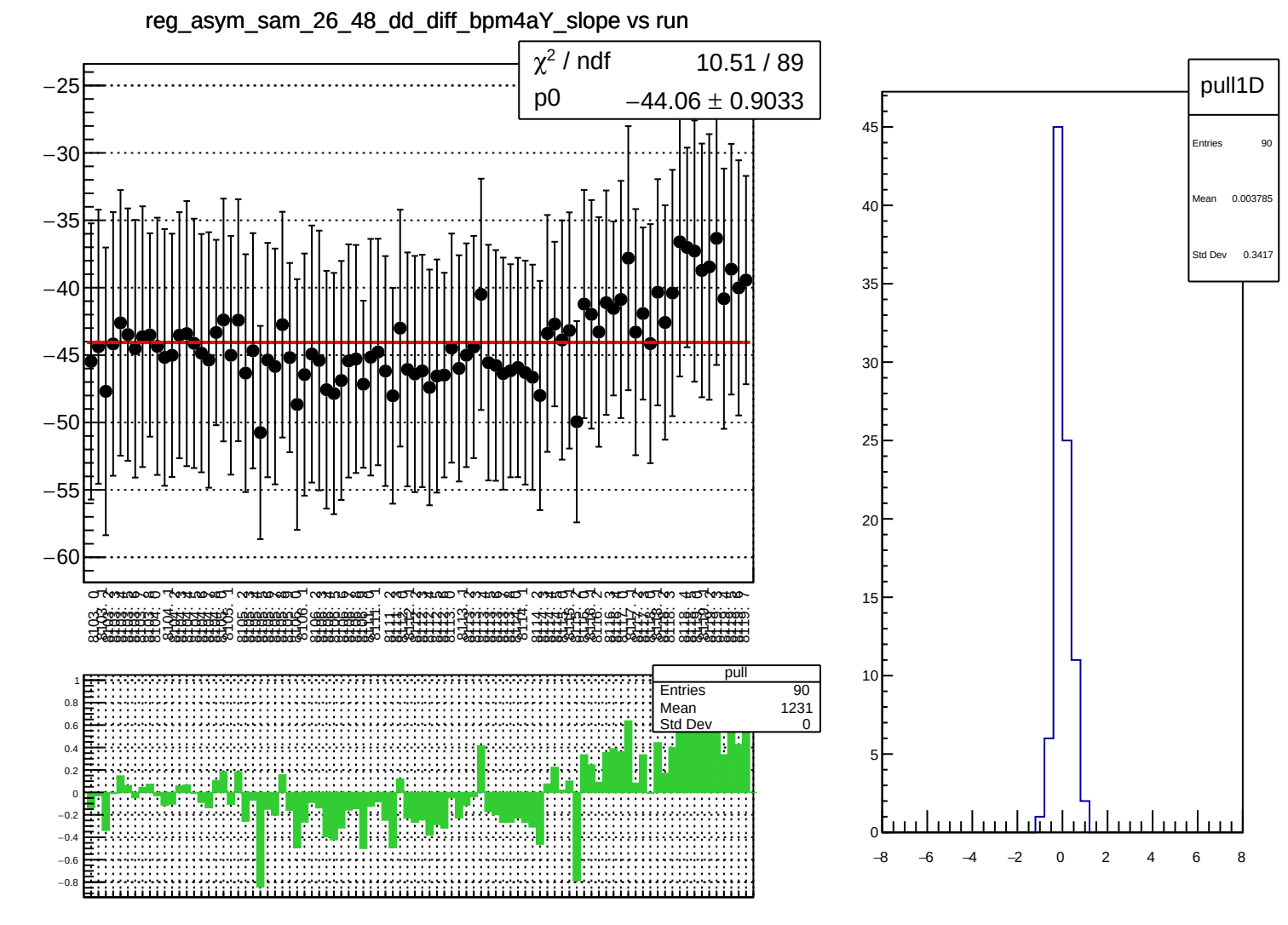

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.47 / 89
p0 20.72 ± 3.849
pull
Entries 90
Mean 919.7
Std Dev 0
pull1D
Entries 90
Mean −0.008329
Std Dev 0.3721

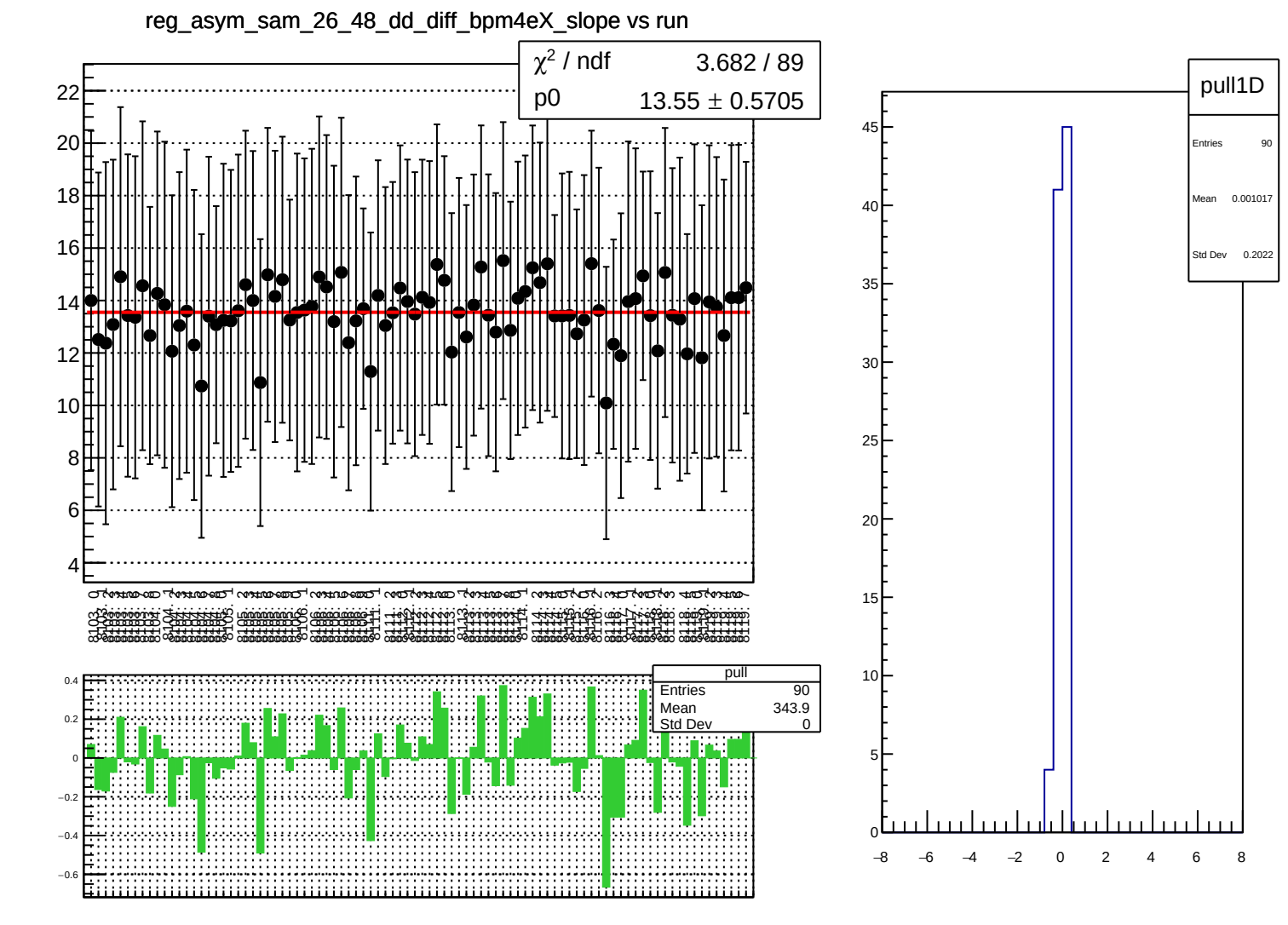

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 4.171 / 89
p0 0.8632 ± 0.1446
pull
Entries 90
Mean −2622
Std Dev 0

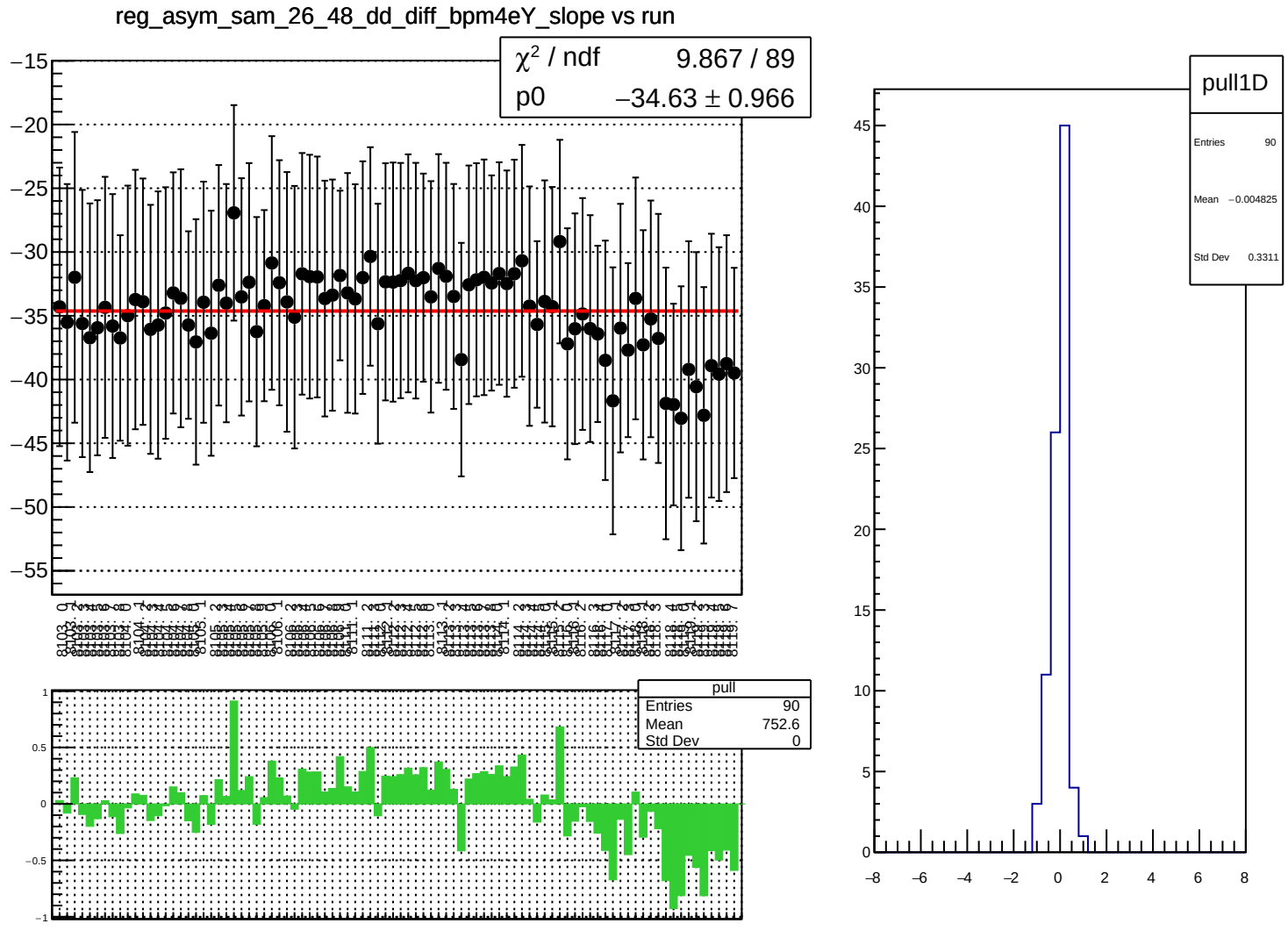

pull1D
Entries 90
Mean 0.001376
Std Dev 0.2153

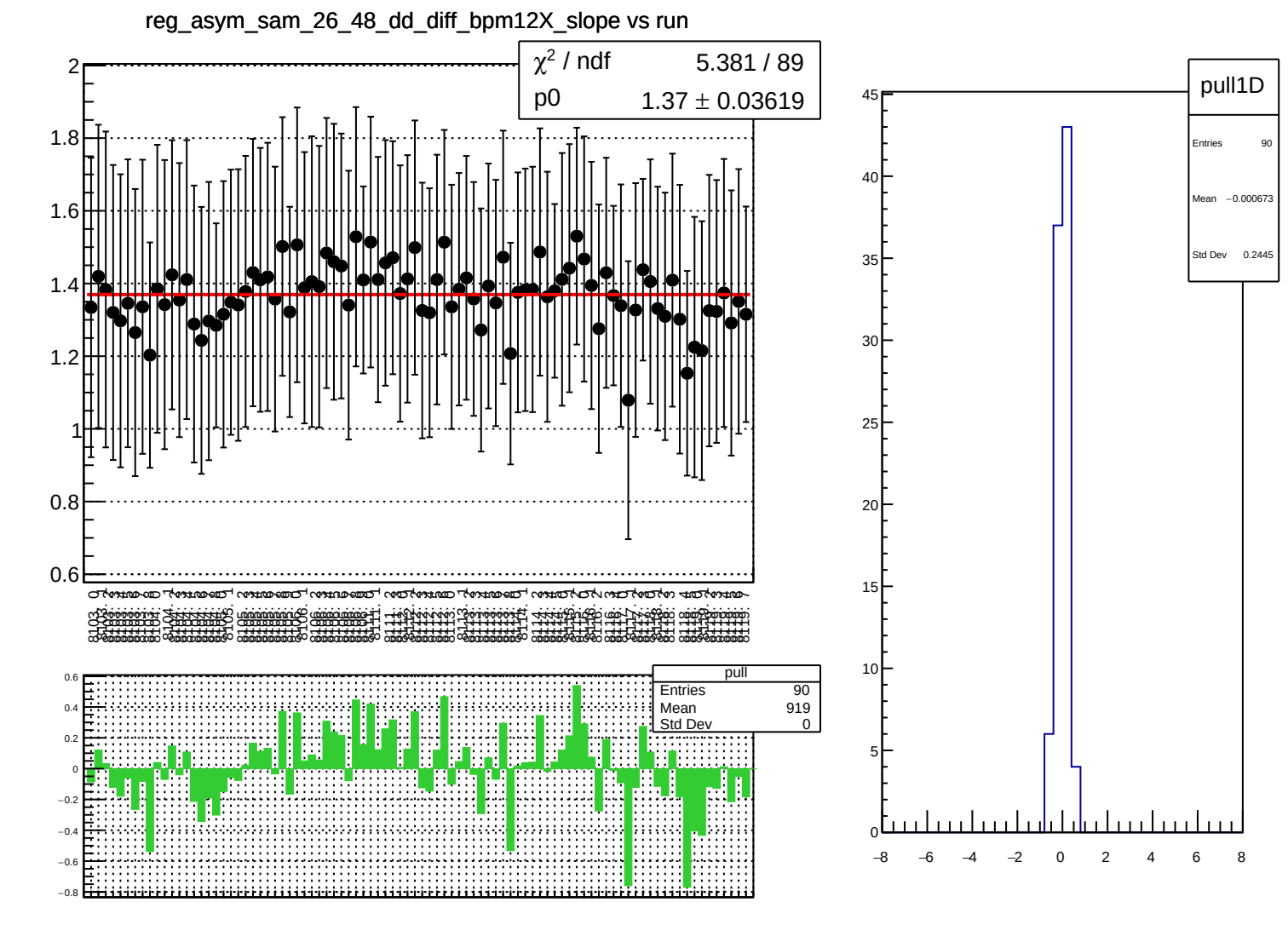

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.721 / 89
p0 5.494 ± 0.6
pull
Entries 90
Mean −33.93
Std Dev 45.78

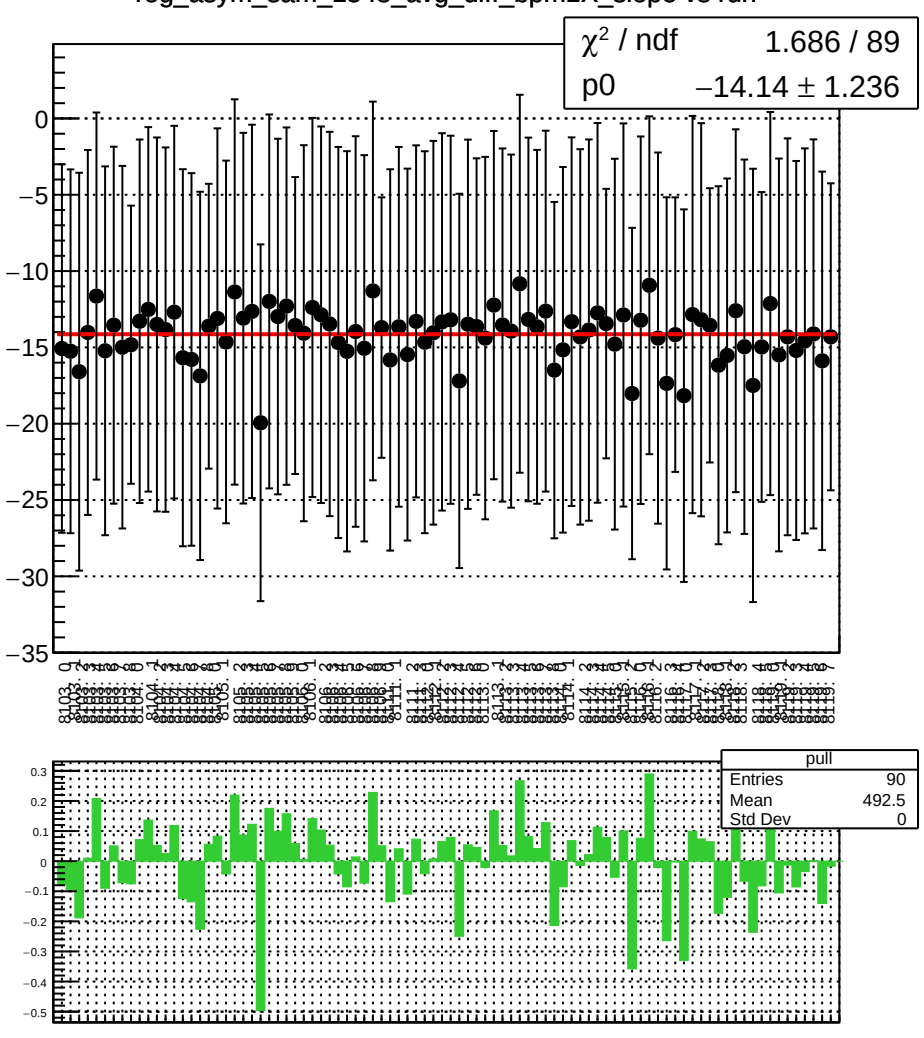

pull1D
Entries 90
Mean 0.003876
Std Dev 0.2033

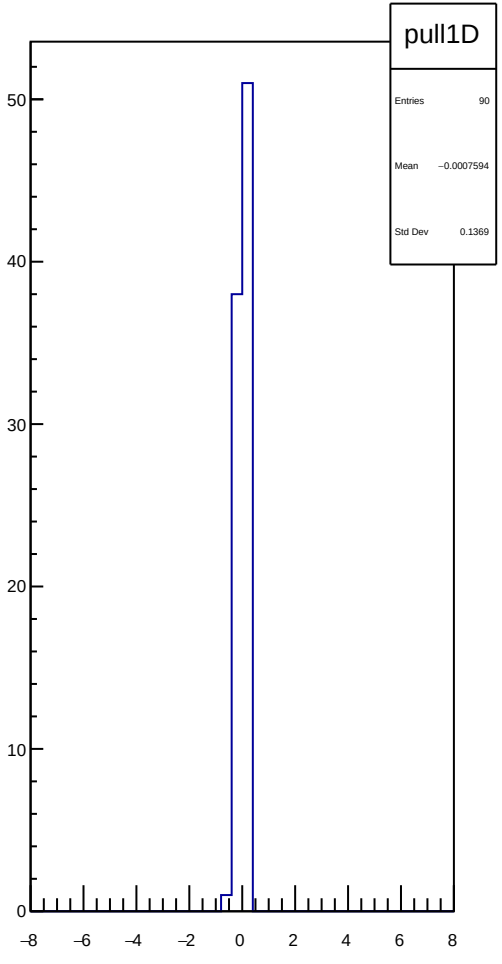

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.51 / 89
p0 −44.06 ± 0.9033
pull
Entries 90
Mean 1231
Std Dev 0
pull1D
Entries 90
Mean 0.003785
Std Dev 0.3417

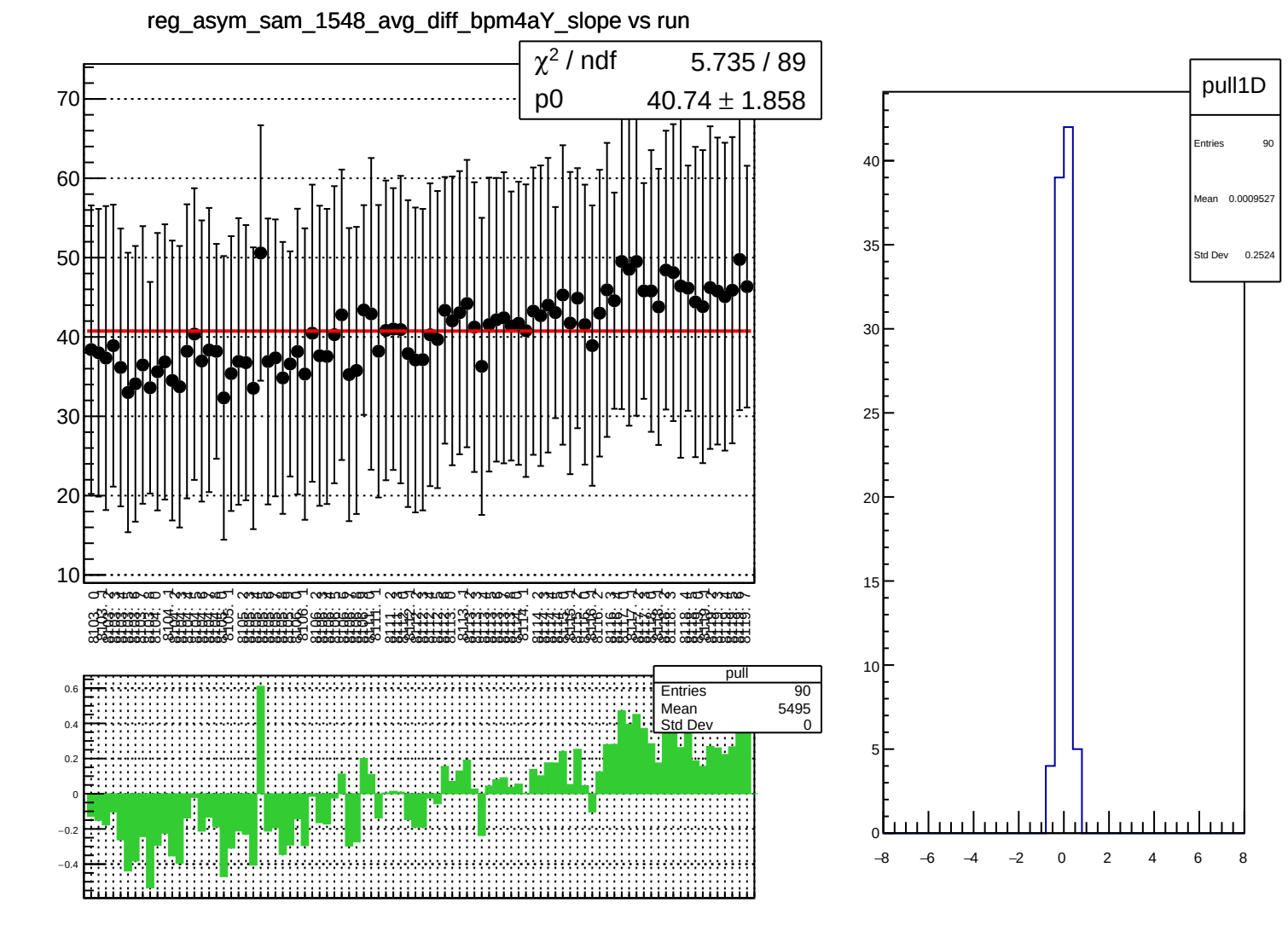

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.682 / 89
p0 13.55 ± 0.5705
pull
Entries 90
Mean 343.9
Std Dev 0
pull1D
Entries 90
Mean 0.001017
Std Dev 0.2022

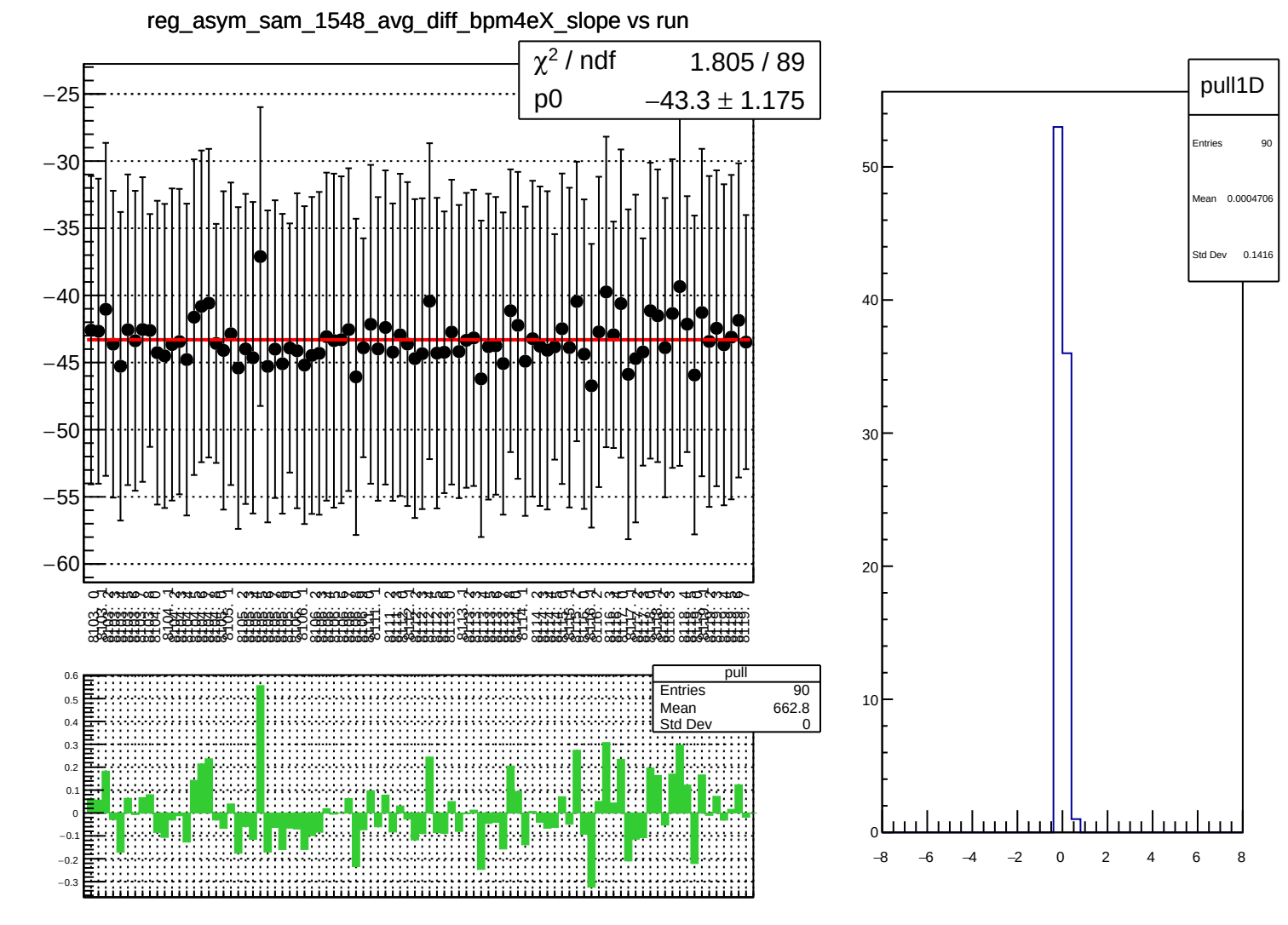

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.867 / 89
p0 −34.63 ± 0.966
pull
Entries 90
Mean 752.6
Std Dev 0
pull1D
Entries 90
Mean −0.004825
Std Dev 0.3311

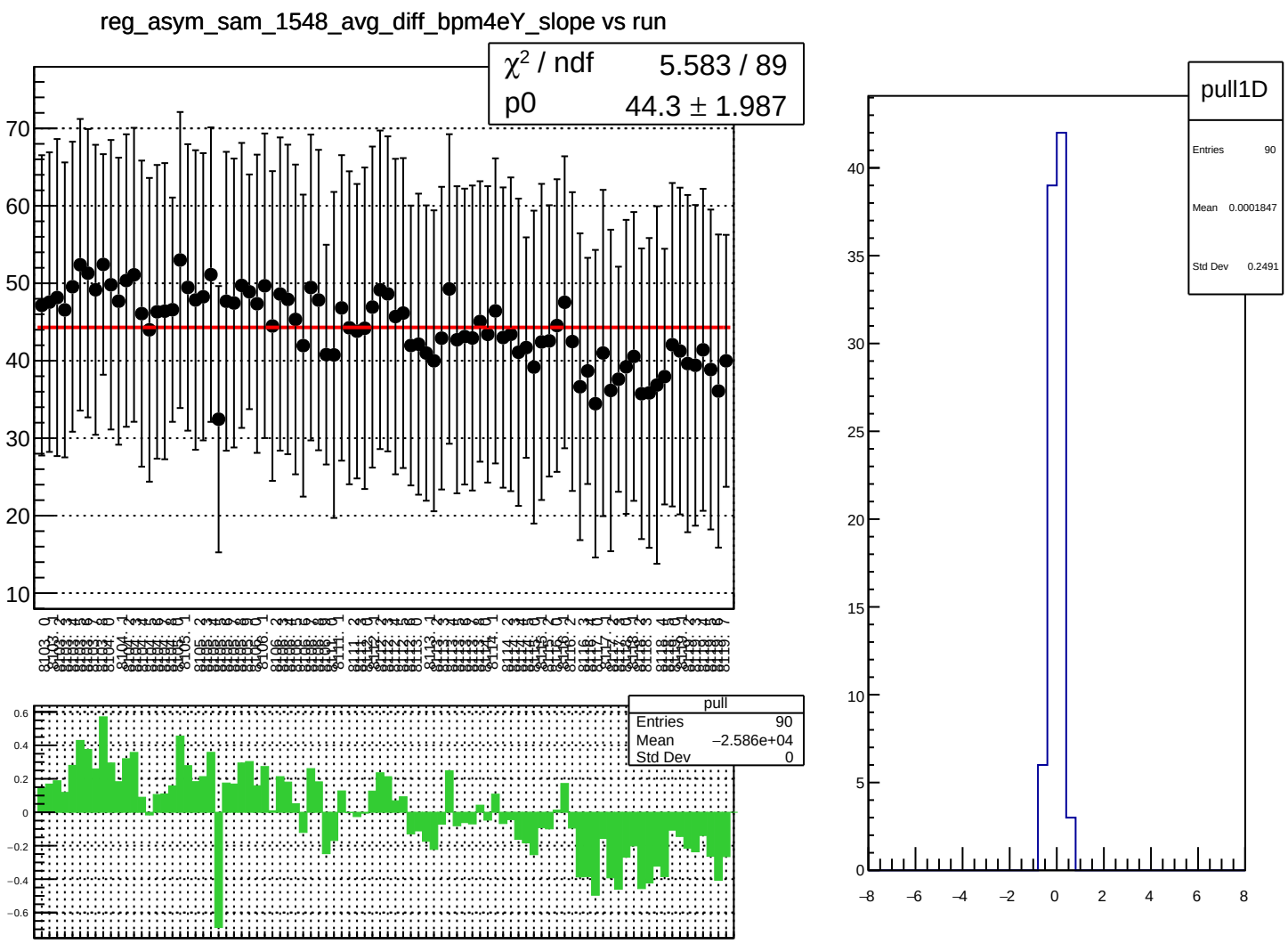

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.381 / 89
p0 1.37 ± 0.03619
pull
Entries 90
Mean 919
Std Dev 0
pull1D
Entries 90
Mean −0.000673
Std Dev 0.2445

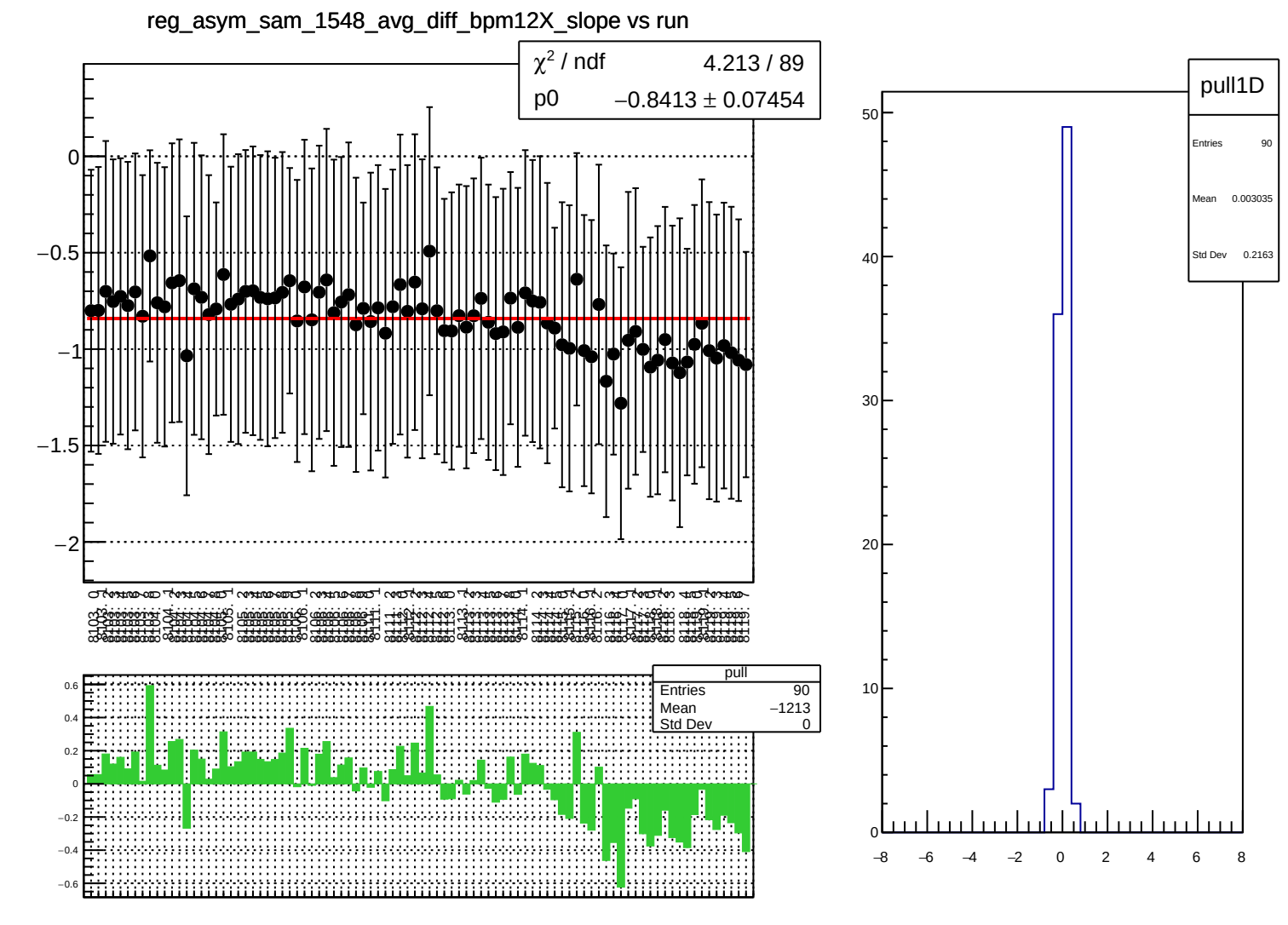

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1.686 / 89
p0 −14.14 ± 1.236
pull
Entries 90
Mean 492.5
Std Dev 0

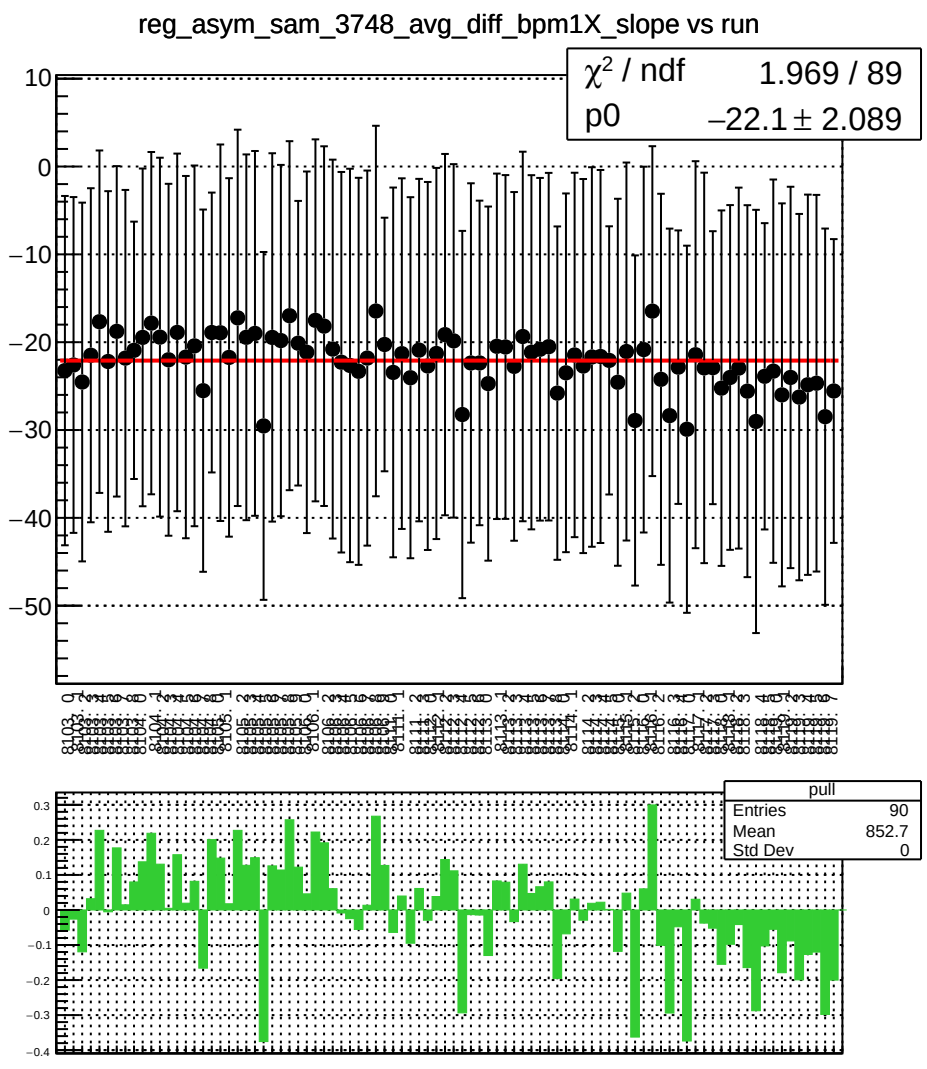

pull1D
Entries 90
Mean −0.0007594
Std Dev 0.1369

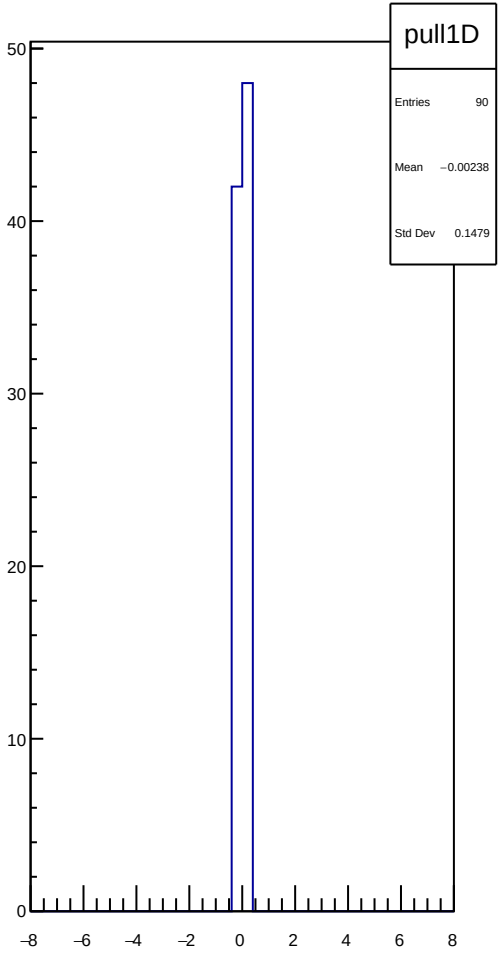

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.735 / 89
p0 40.74 ± 1.858
pull
Entries 90
Mean 5495
Std Dev 0
pull1D
Entries 90
Mean 0.0009527
Std Dev 0.2524

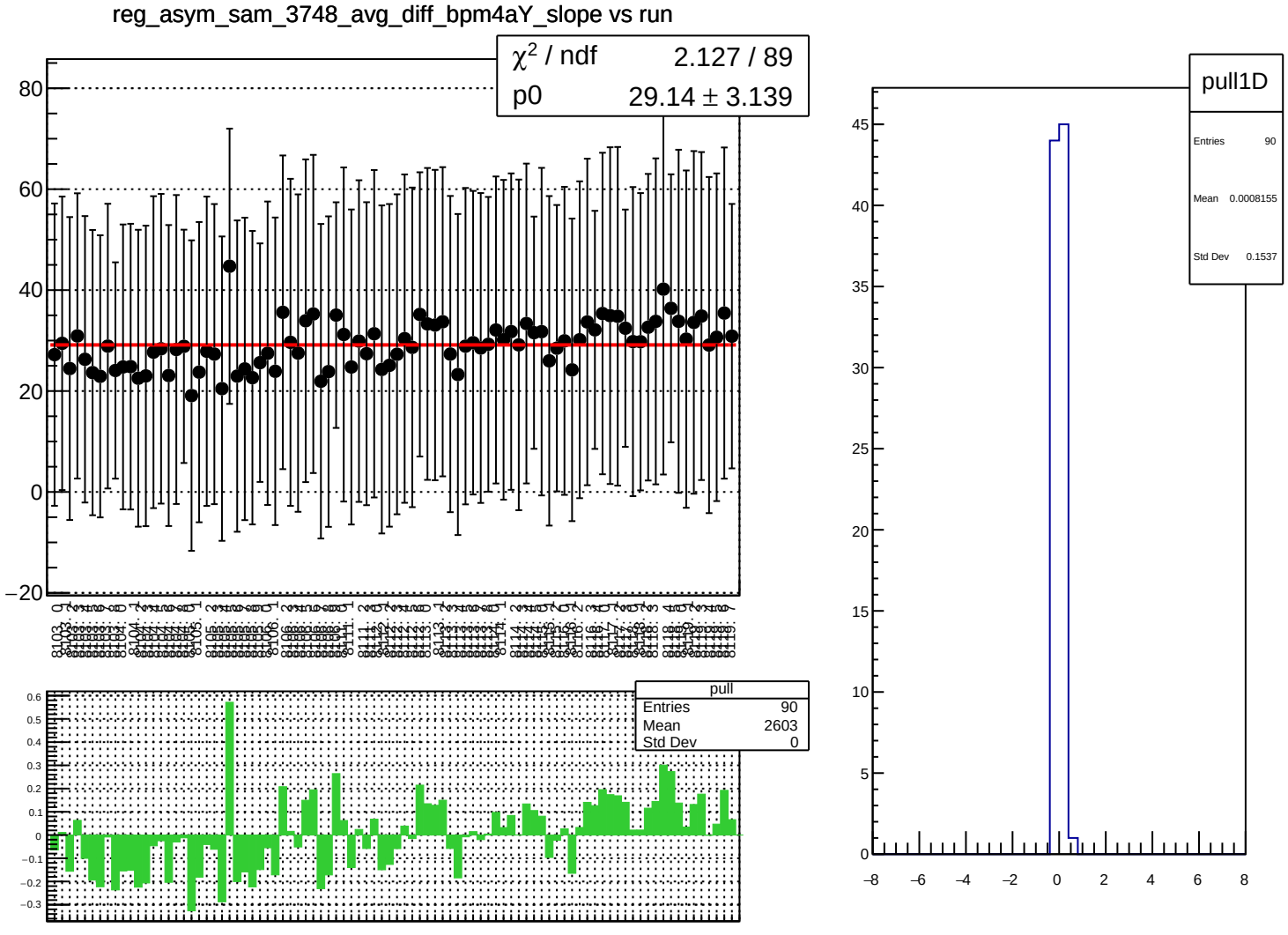

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.805 / 89
p0 −43.3 ± 1.175
pull
Entries 90
Mean 662.8
Std Dev 0
pull1D
Entries 90
Mean 0.0004706
Std Dev 0.1416

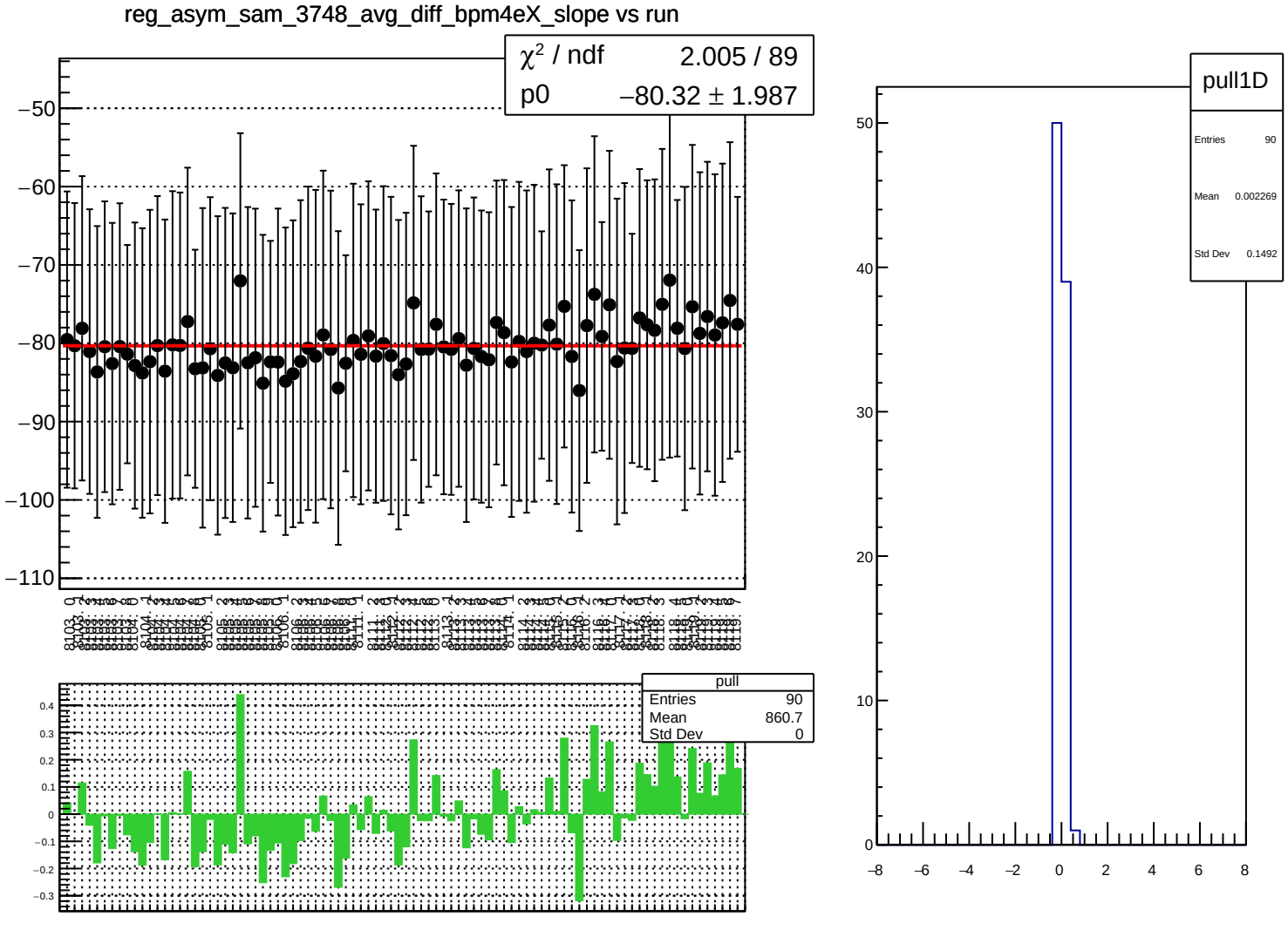

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.583 / 89
p0 44.3 ± 1.987
pull
Entries 90
Mean −2.586e+04
Std Dev 0
pull1D
Entries 90
Mean 0.0001847
Std Dev 0.2491

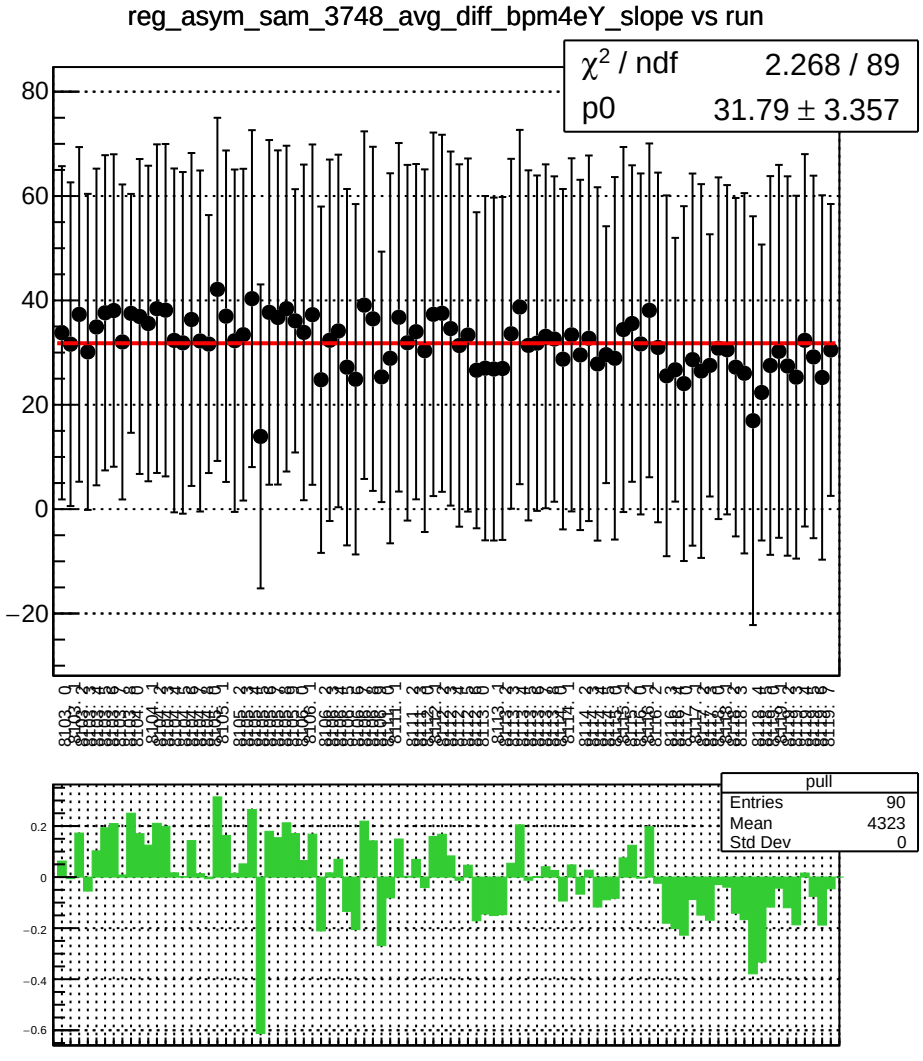

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 4.213 / 89
p0 −0.8413 ± 0.07454
0
−0.5
−1
−1.5
−2
pull
Entries 90
Mean −1213
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 90
Mean 0.003035
Std Dev 0.2163
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

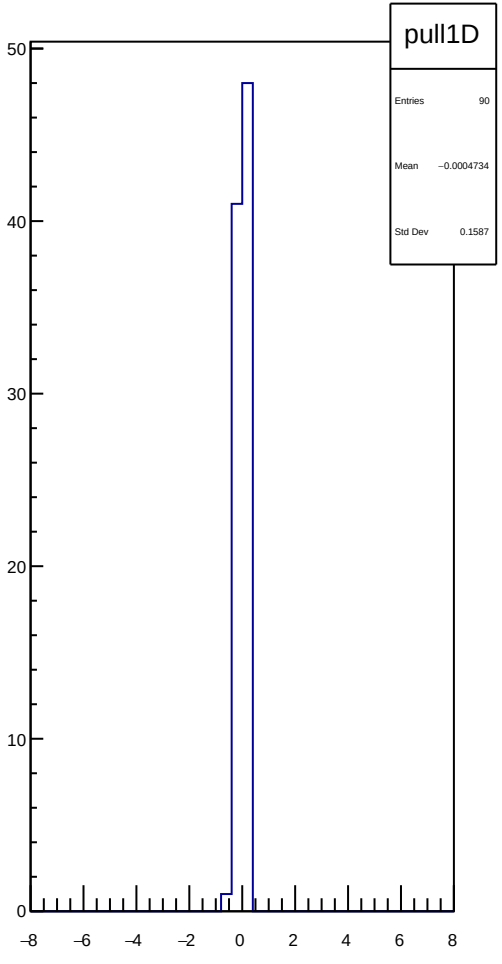

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1.969 / 89
p0 −22.1 ± 2.089
pull
Entries 90
Mean 852.7
Std Dev 0

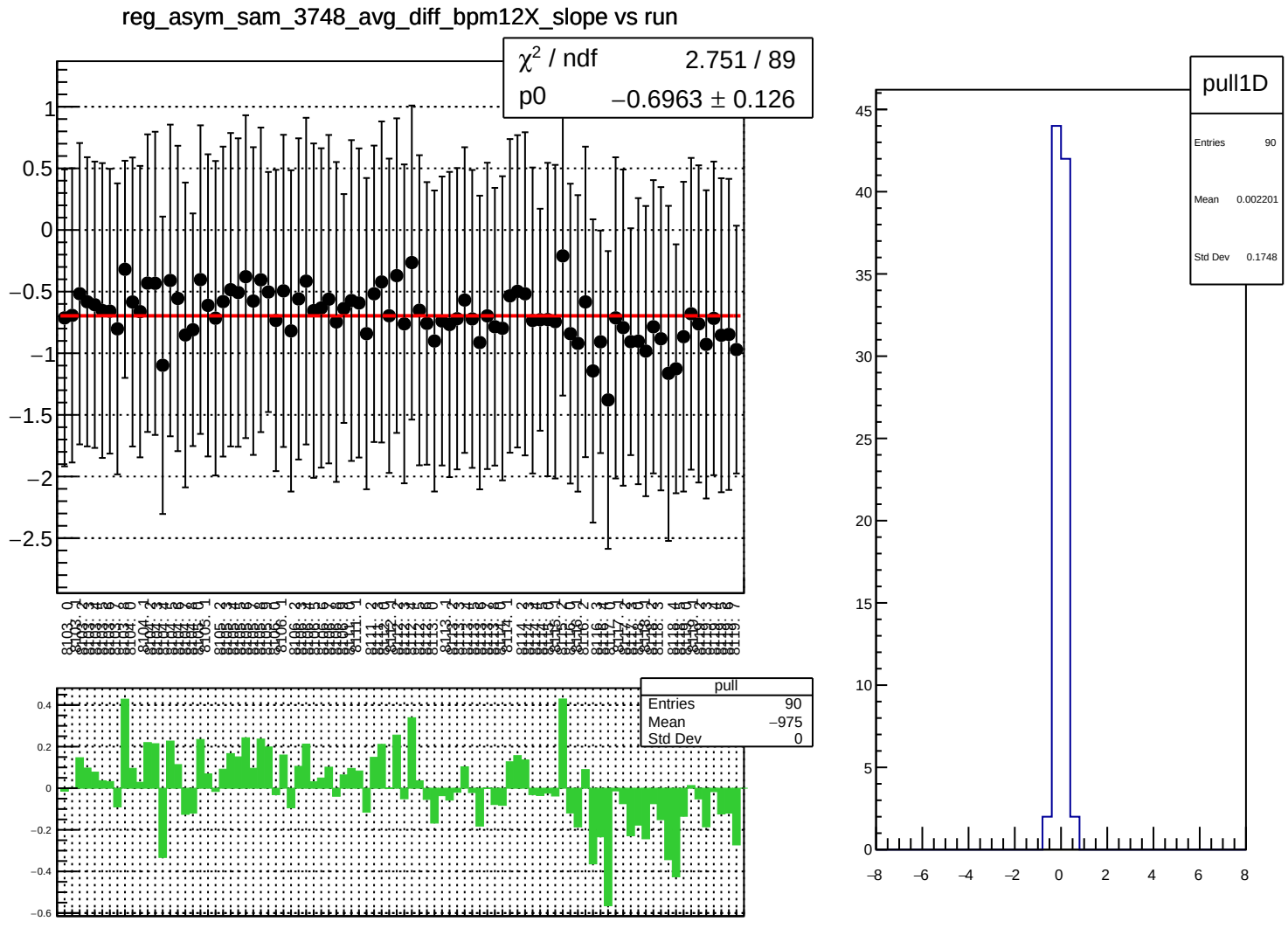

pull1D
Entries 90
Mean −0.00238
Std Dev 0.1479

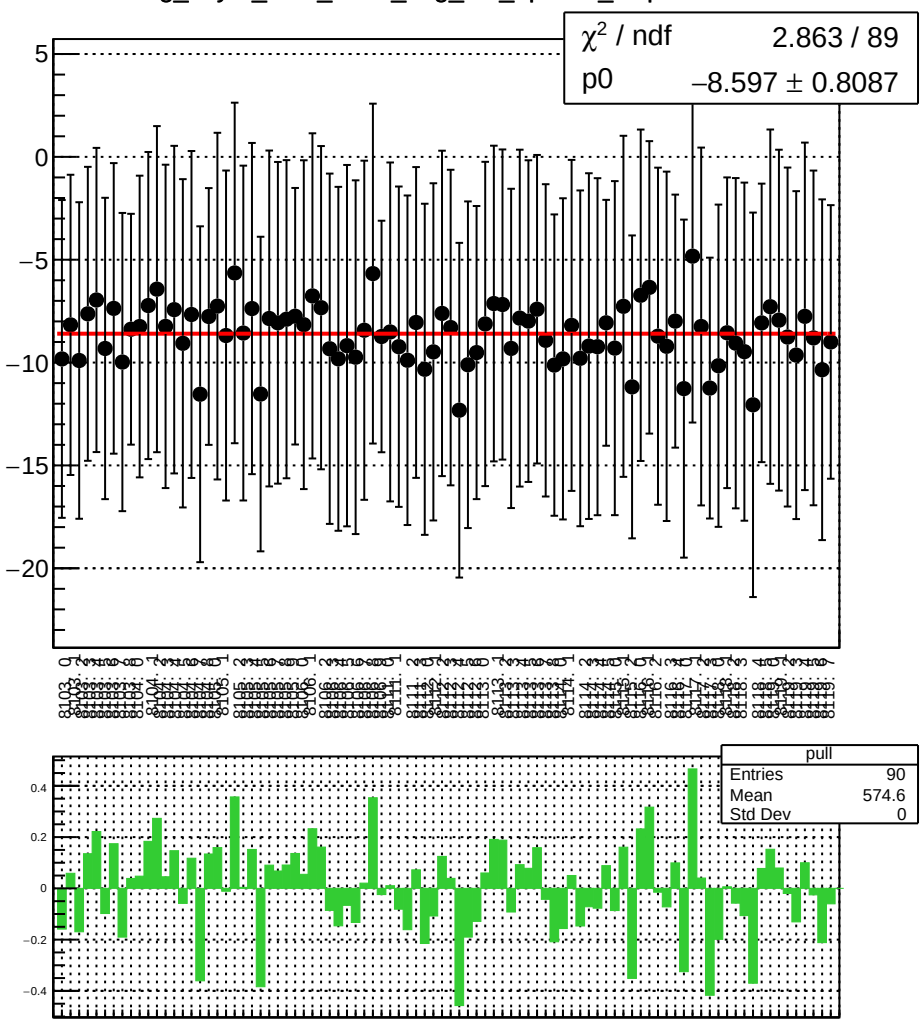

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.127 / 89
p0 29.14 ± 3.139
pull
Entries 90
Mean 2603
Std Dev 0
pull1D
Entries 90
Mean 0.0008155
Std Dev 0.1537

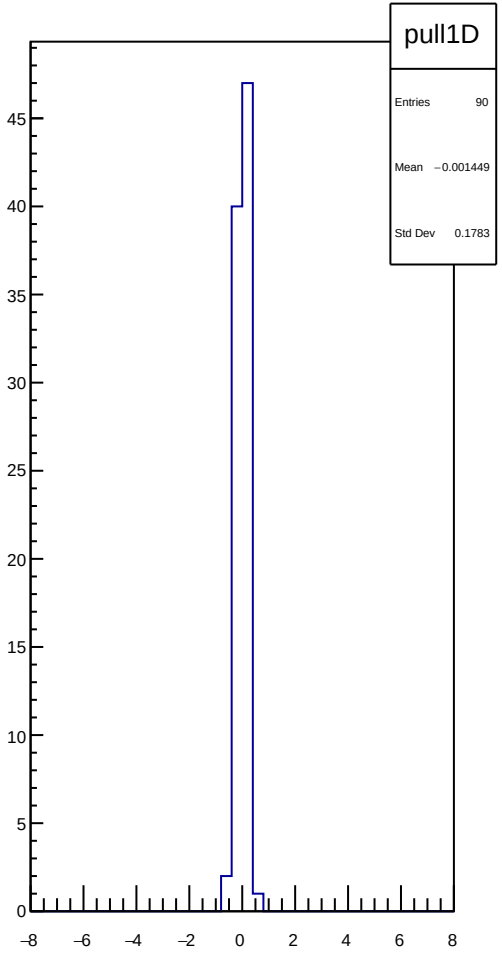

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.005 / 89
p0 −80.32 ± 1.987
pull
Entries 90
Mean 860.7
Std Dev 0
pull1D
Entries 90
Mean 0.002269
Std Dev 0.1492

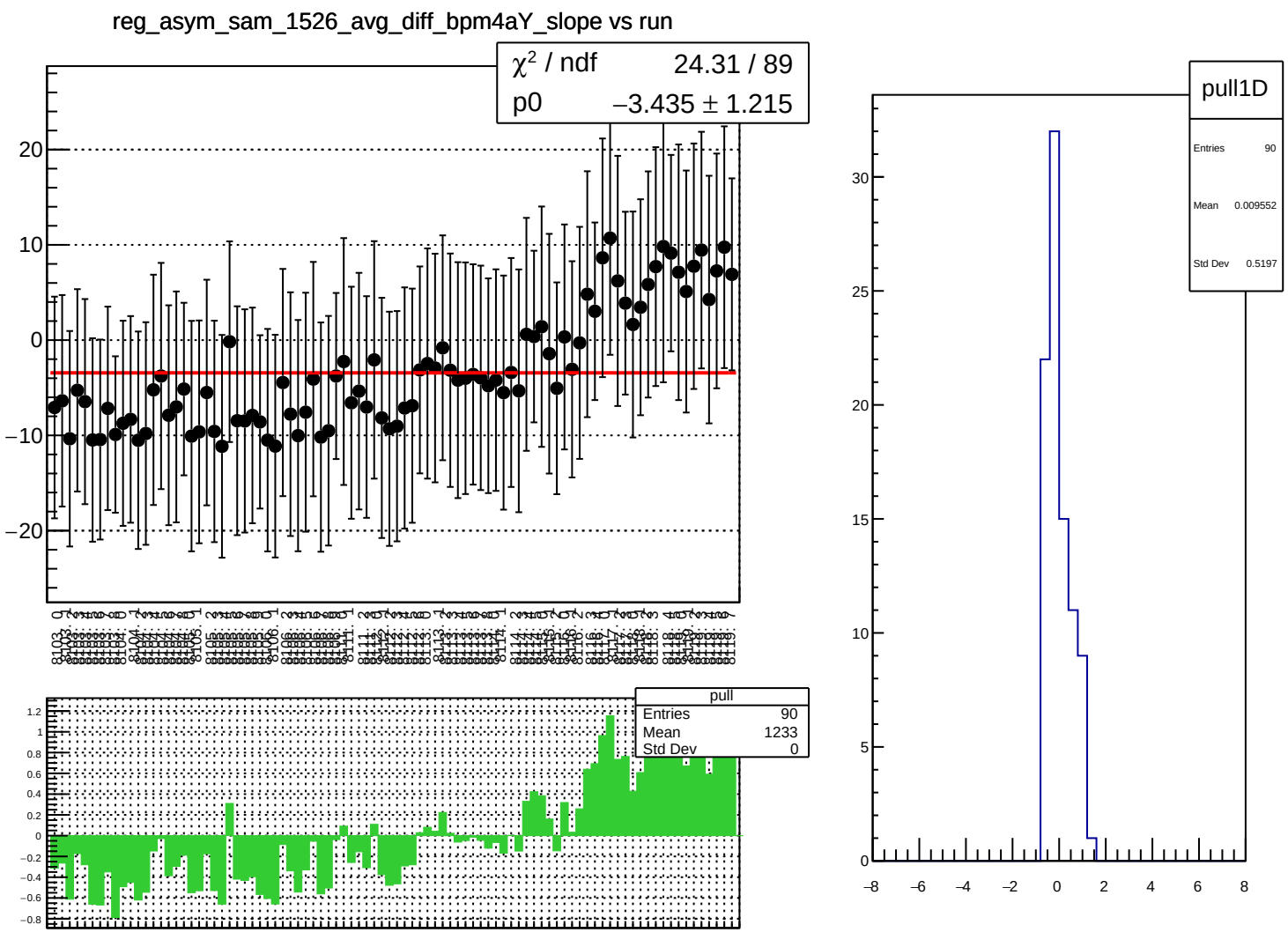

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.268 / 89
p0 31.79 ± 3.357
pull
Entries 90
Mean 4323
Std Dev 0

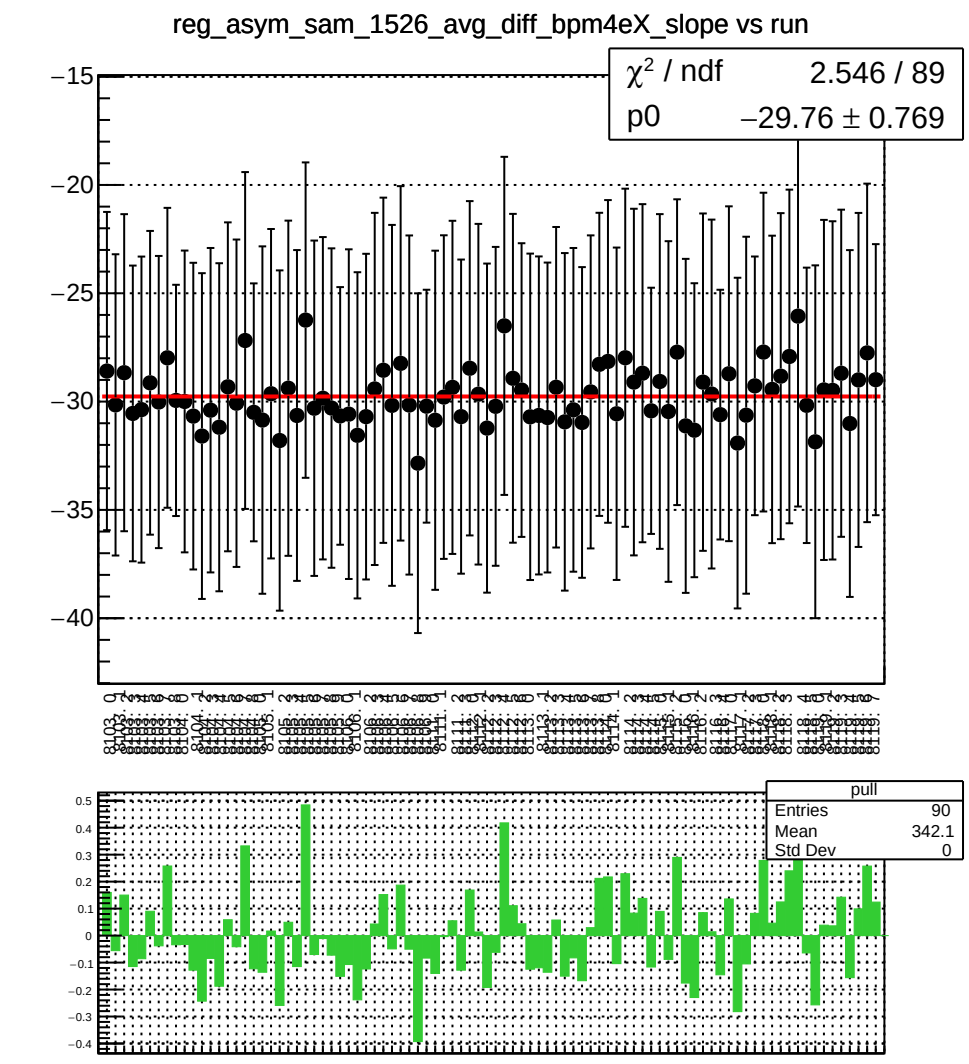

pull1D
Entries 90
Mean −0.0004734
Std Dev 0.1587

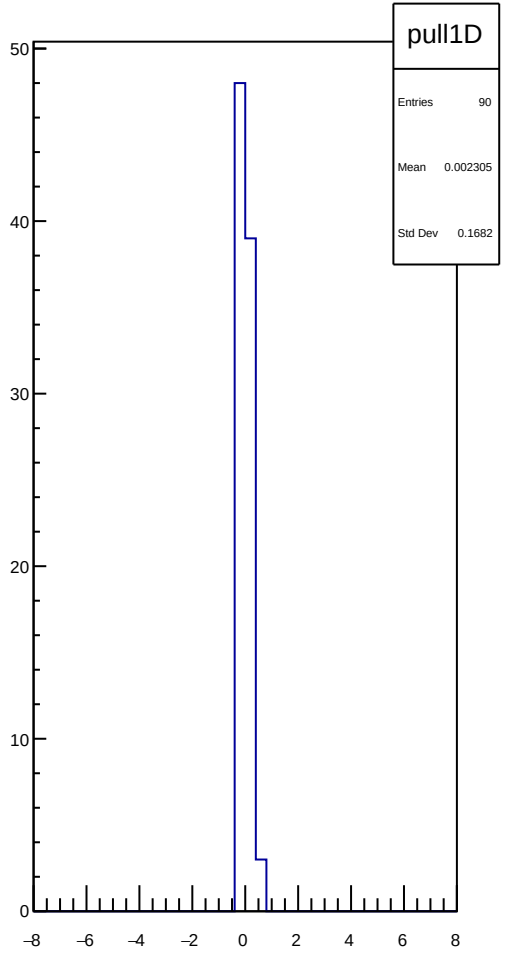

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 2.751 / 89
p0 −0.6963 ± 0.126
pull
Entries 90
Mean −975
Std Dev 0
pull1D
Entries 90
Mean 0.002201
Std Dev 0.1748

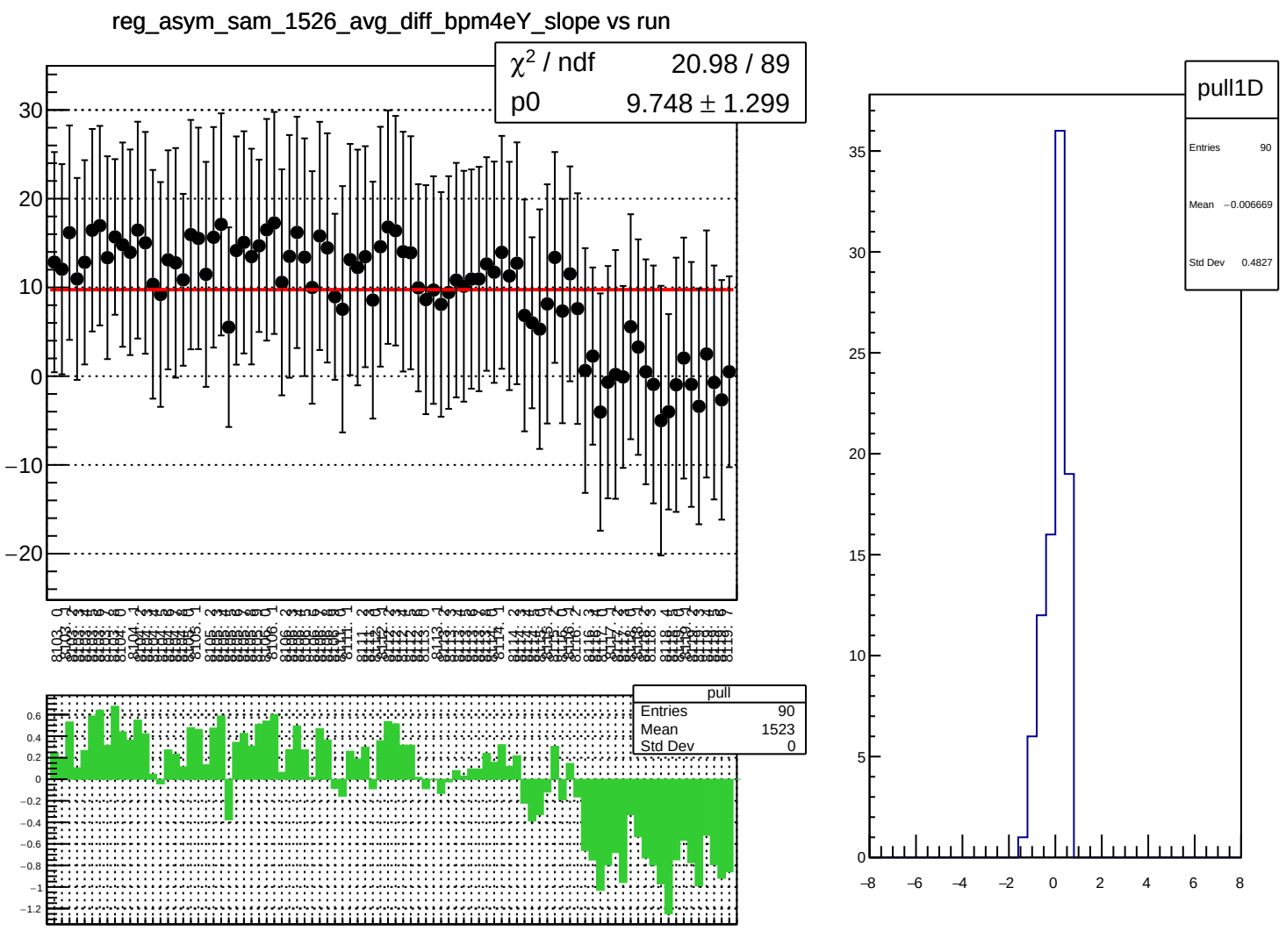

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 2.863 / 89
p0 −8.597 ± 0.8087
pull
Entries 90
Mean 574.6
Std Dev 0

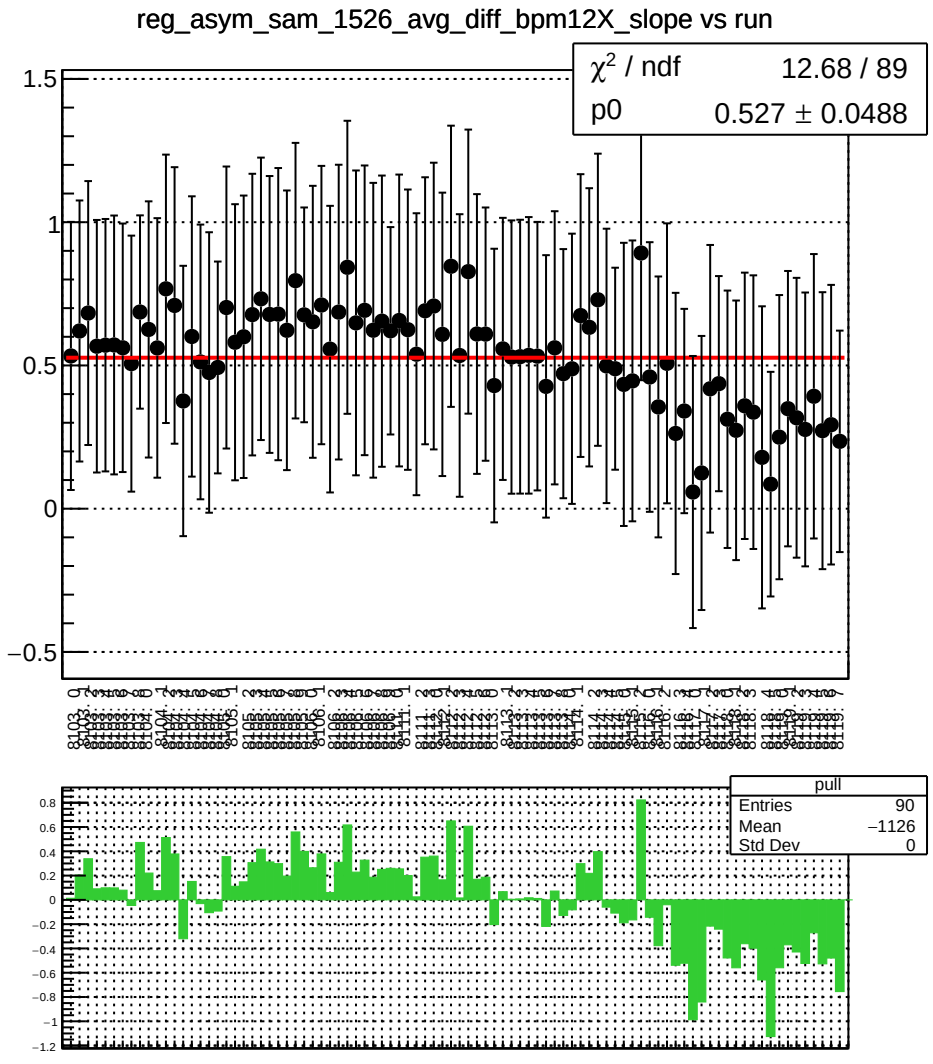

pull1D
Entries 90
Mean −0.001449
Std Dev 0.1783

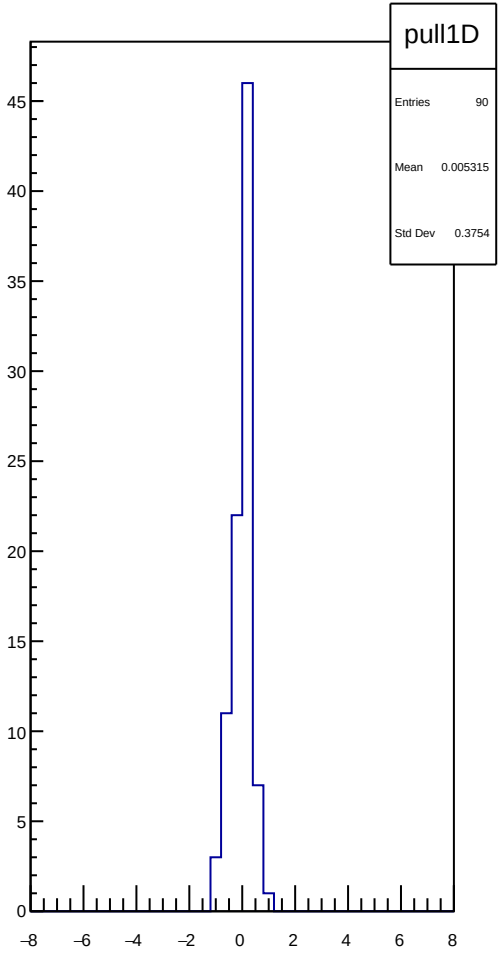

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.31 / 89
p0 −3.435 ± 1.215
pull
Entries 90
Mean 1233
Std Dev 0
pull1D
Entries 90
Mean 0.009552
Std Dev 0.5197

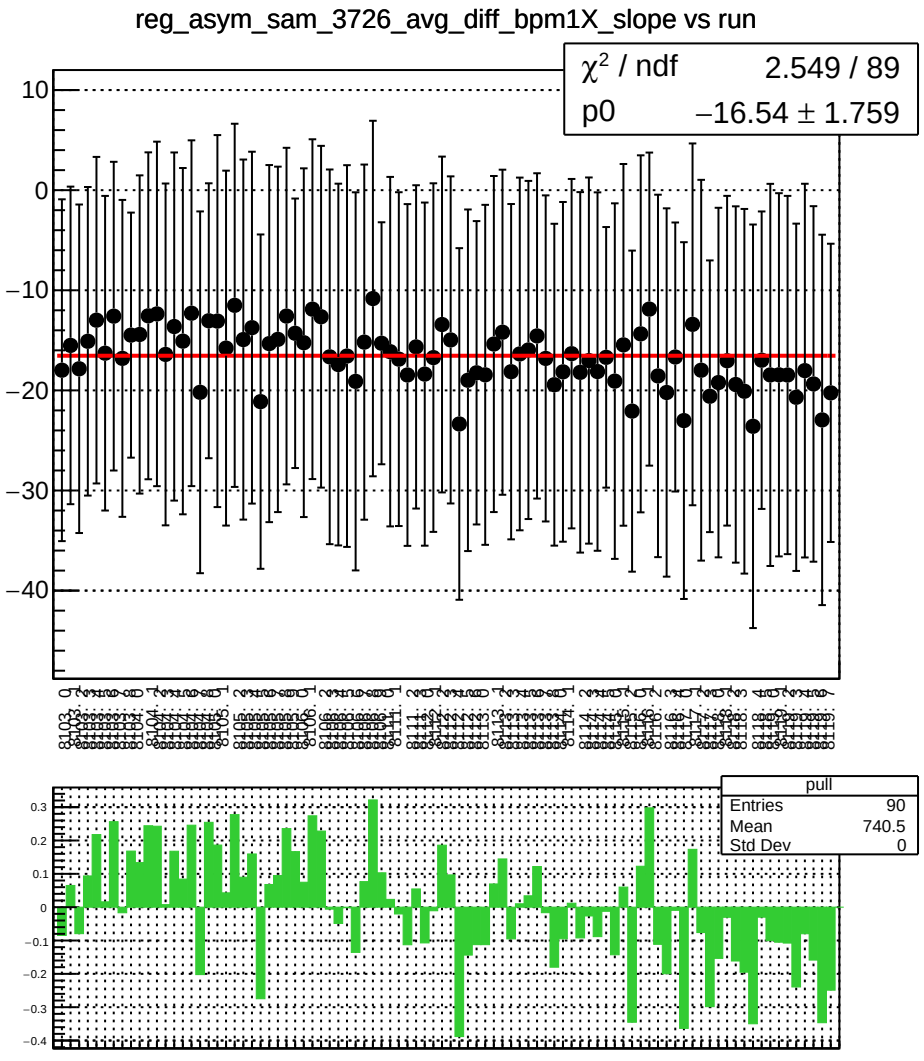

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.546 / 89
p0 −29.76 ± 0.769
pull
Entries 90
Mean 342.1
Std Dev 0

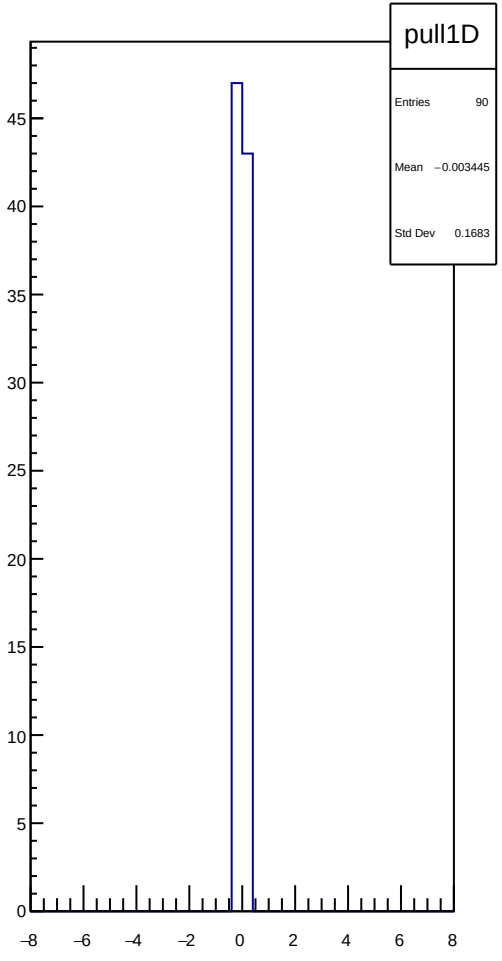

pull1D
Entries 90
Mean 0.002305
Std Dev 0.1682

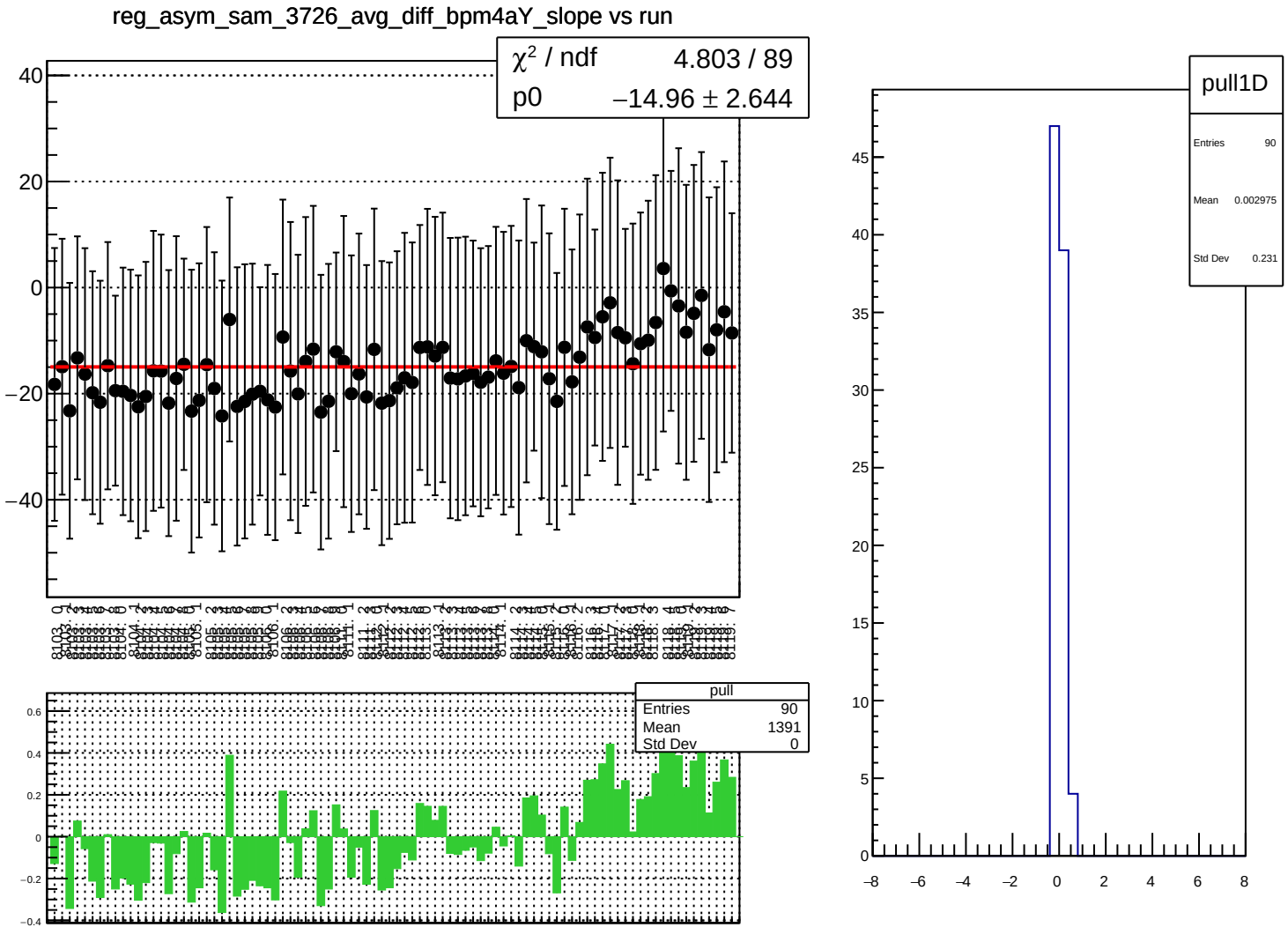

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.98 / 89
p0 9.748 ± 1.299
pull
Entries 90
Mean 1523
Std Dev 0
pull1D
Entries 90
Mean −0.006669
Std Dev 0.4827

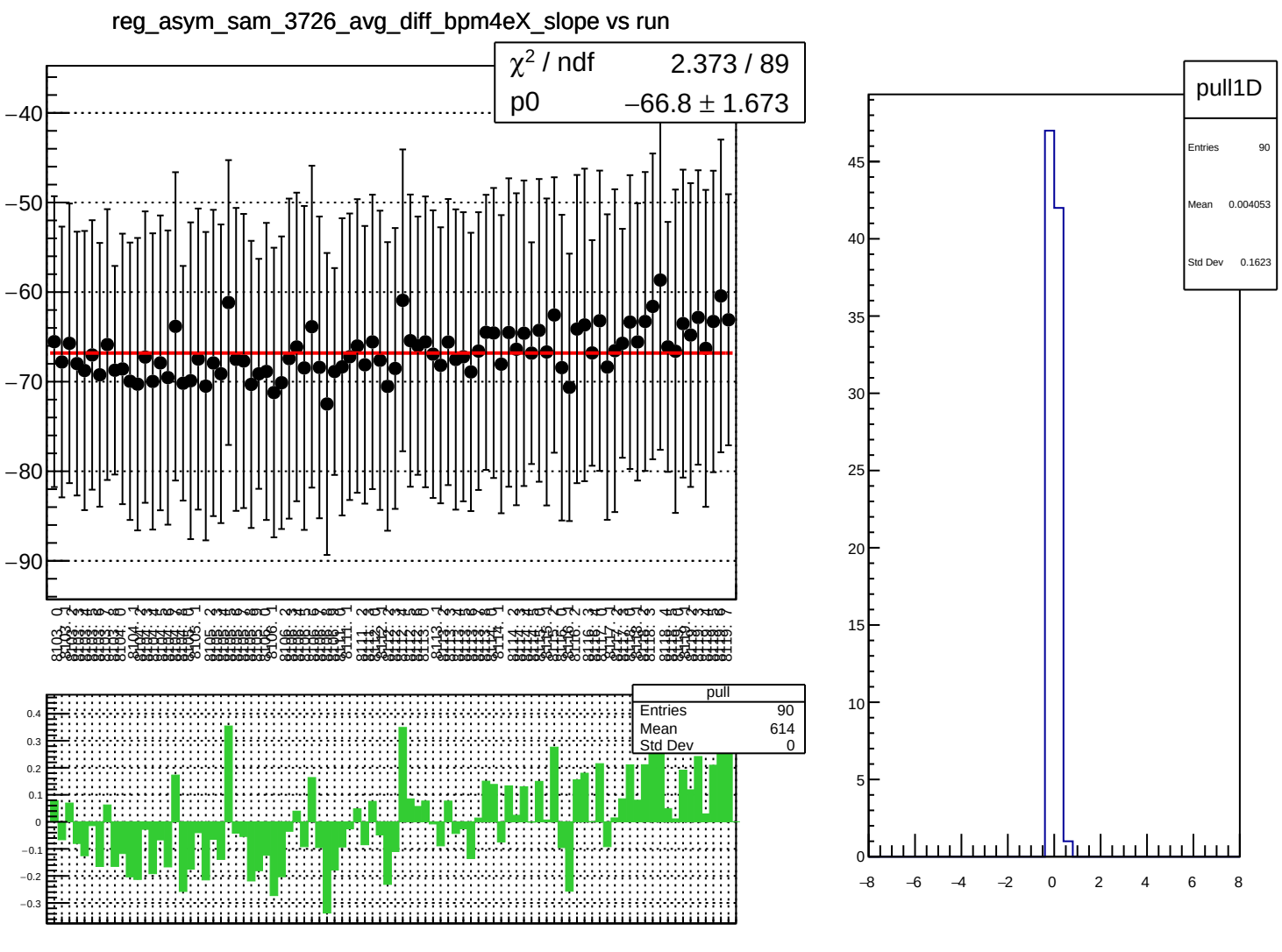

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 12.68 / 89
p0 0.527 ± 0.0488
pull
Entries 90
Mean −1126
Std Dev 0

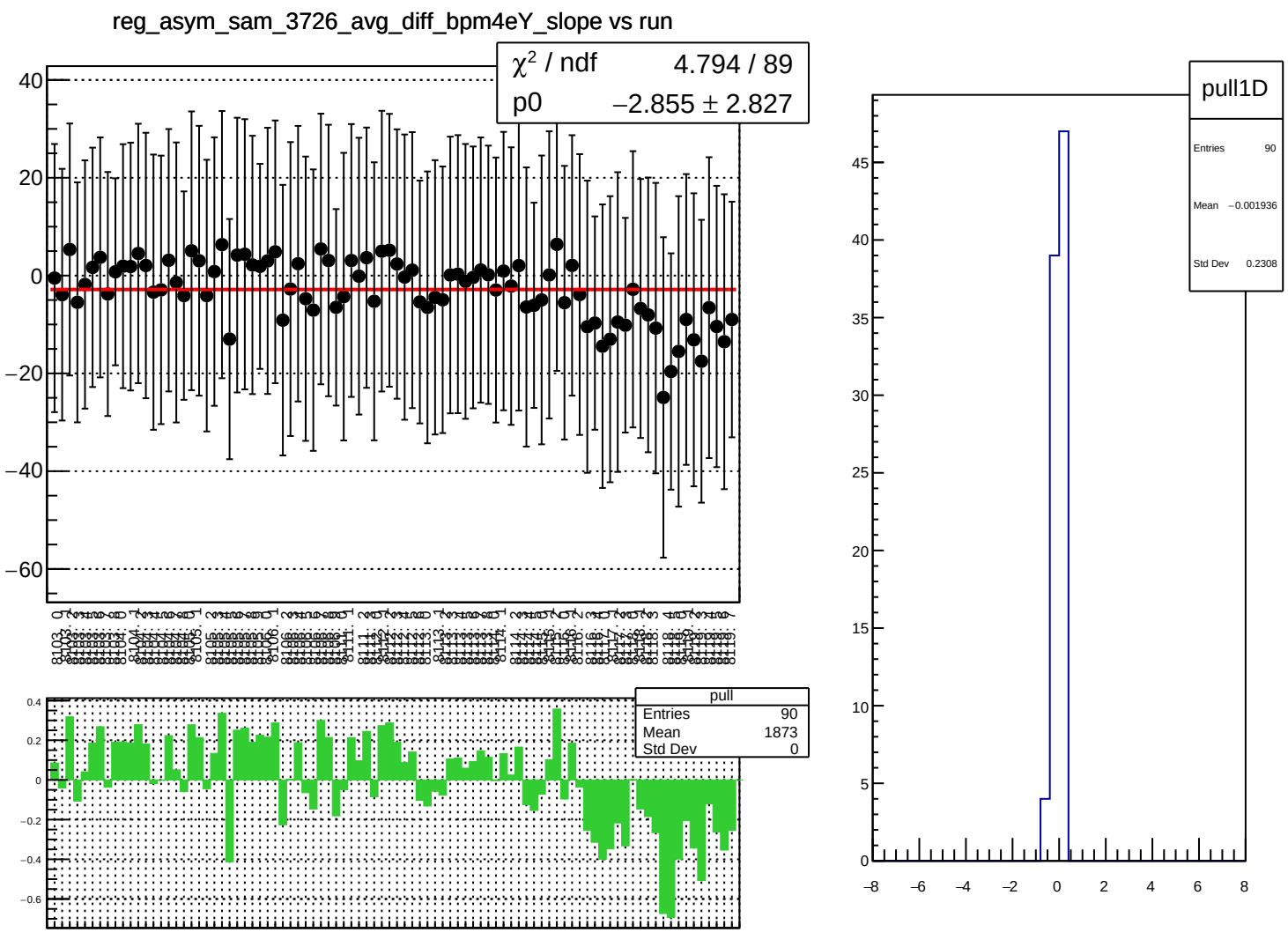

pull1D
Entries 90
Mean 0.005315
Std Dev 0.3754

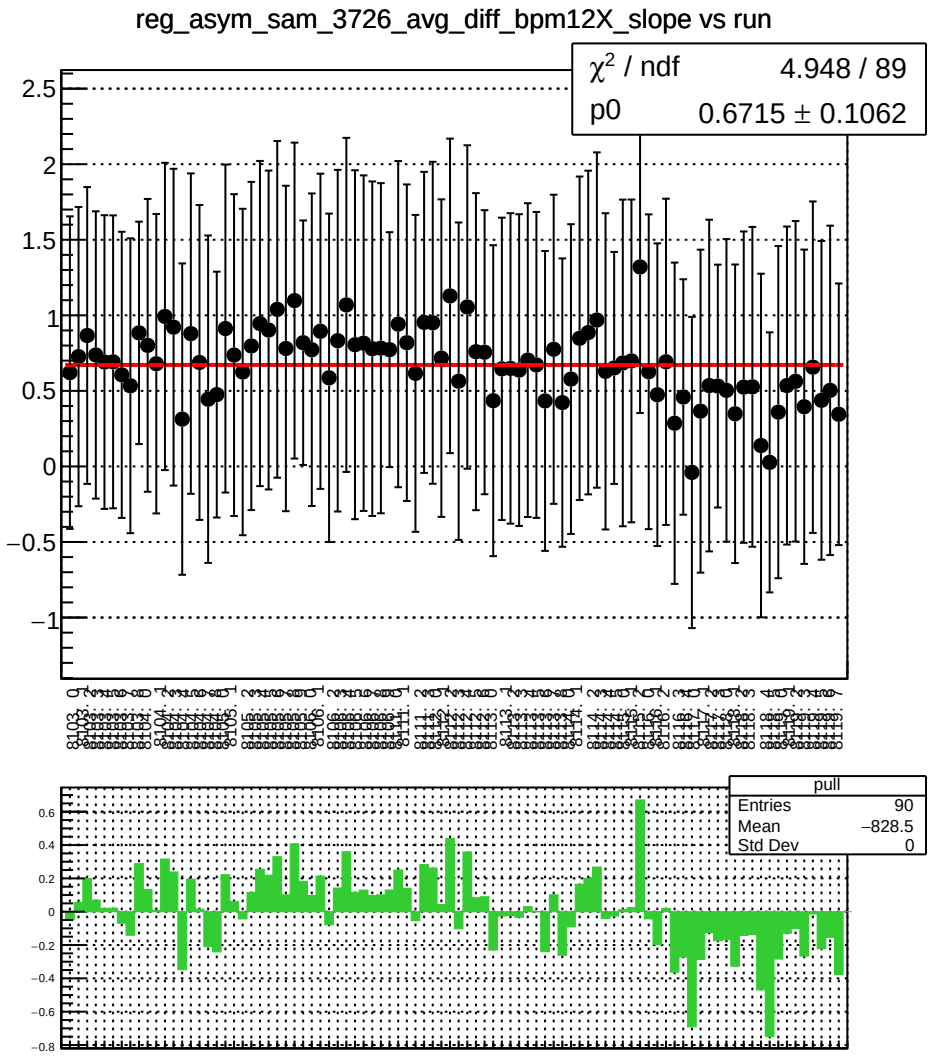

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 2.549 / 89
p0 −16.54 ± 1.759
pull
Entries 90
Mean 740.5
Std Dev 0

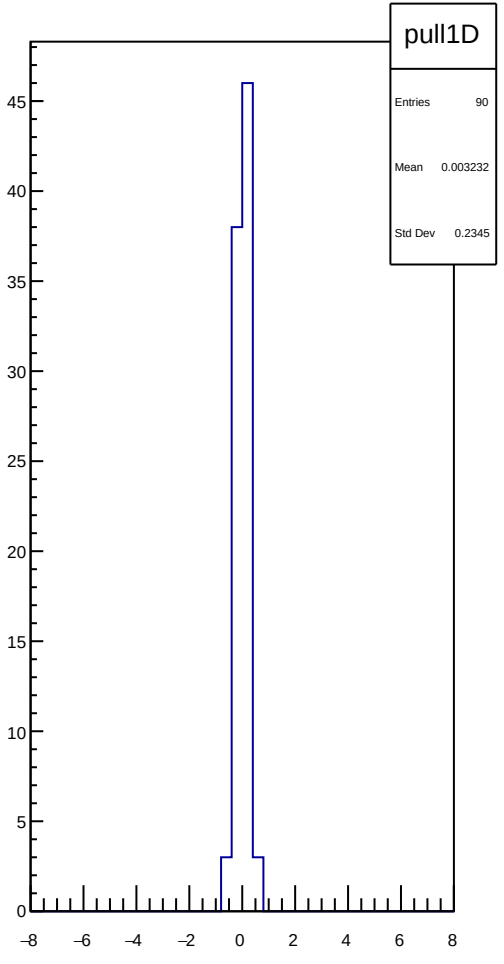

pull1D
Entries 90
Mean −0.003445
Std Dev 0.1683

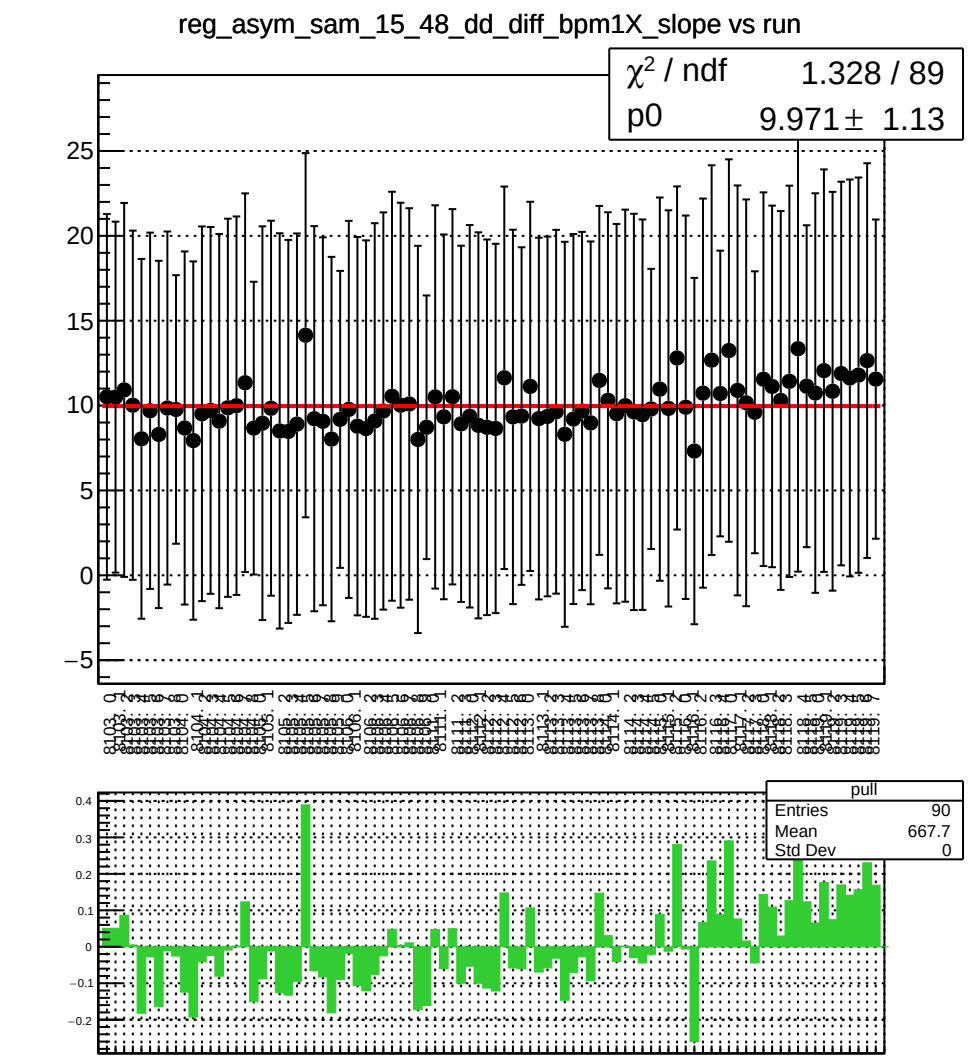

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.803 / 89
p0 −14.96 ± 2.644
pull
Entries 90
Mean 1391
Std Dev 0
pull1D
Entries 90
Mean 0.002975
Std Dev 0.231

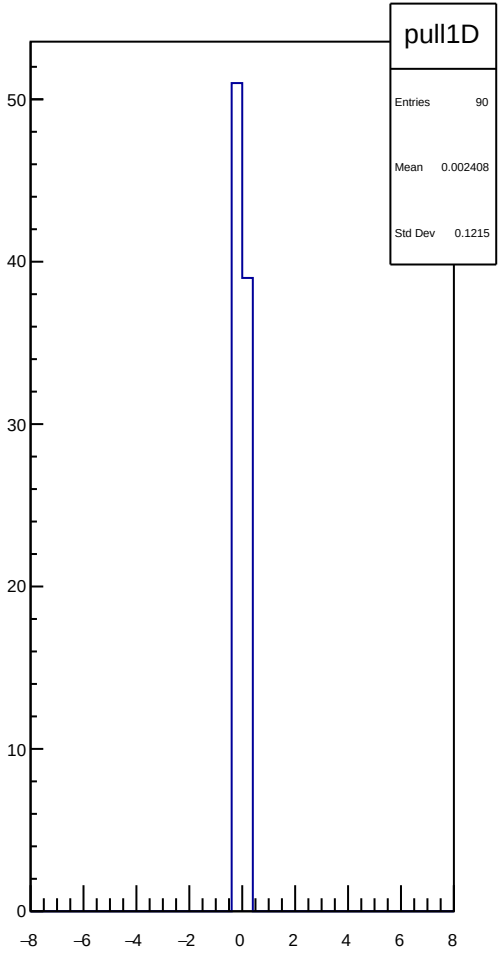

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.373 / 89
p0 −66.8 ± 1.673
pull
Entries 90
Mean 614
Std Dev 0
pull1D
Entries 90
Mean 0.004053
Std Dev 0.1623

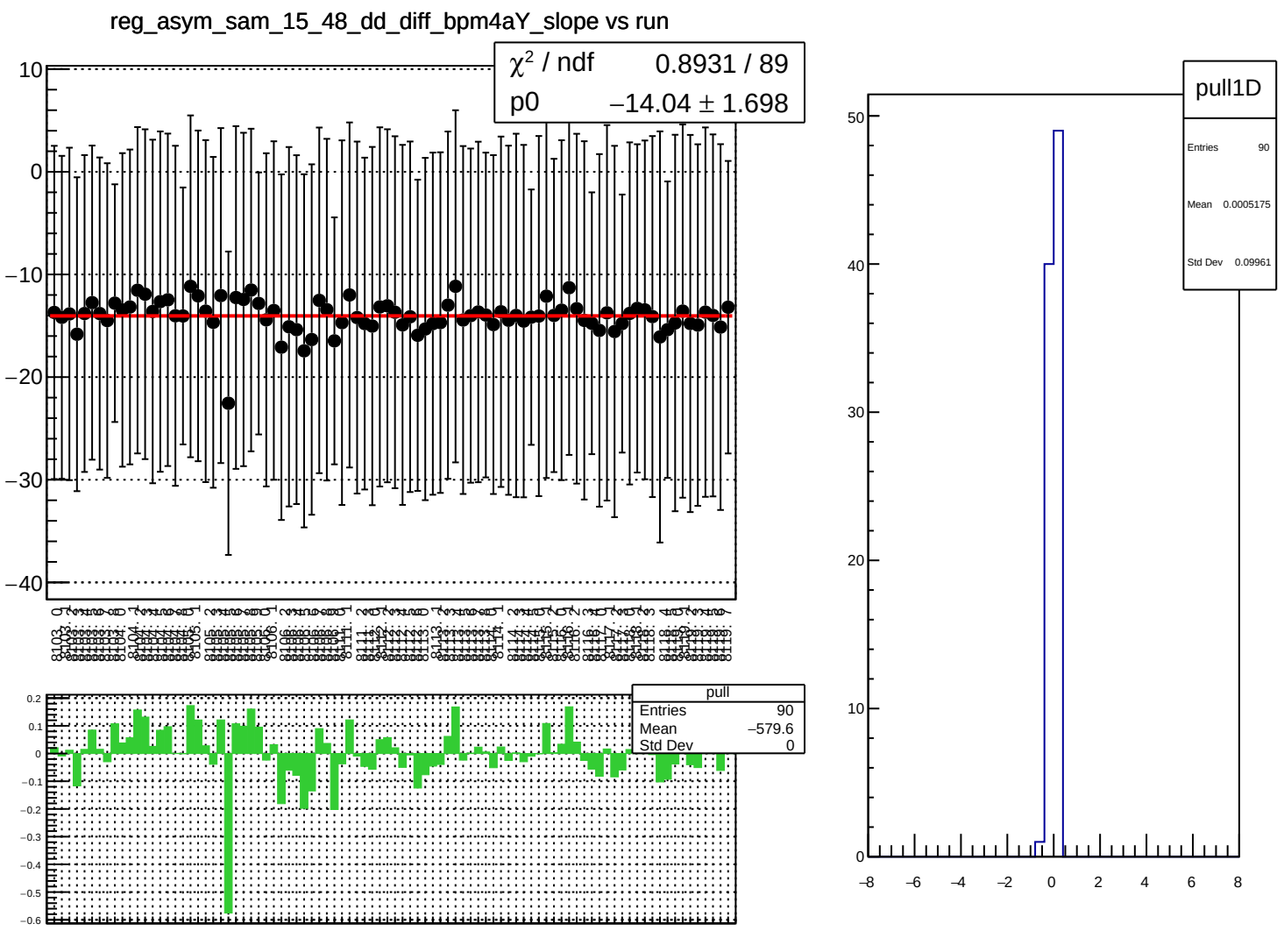

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.794 / 89
p0 −2.855 ± 2.827
pull
Entries 90
Mean 1873
Std Dev 0
pull1D
Entries 90
Mean −0.001936
Std Dev 0.2308

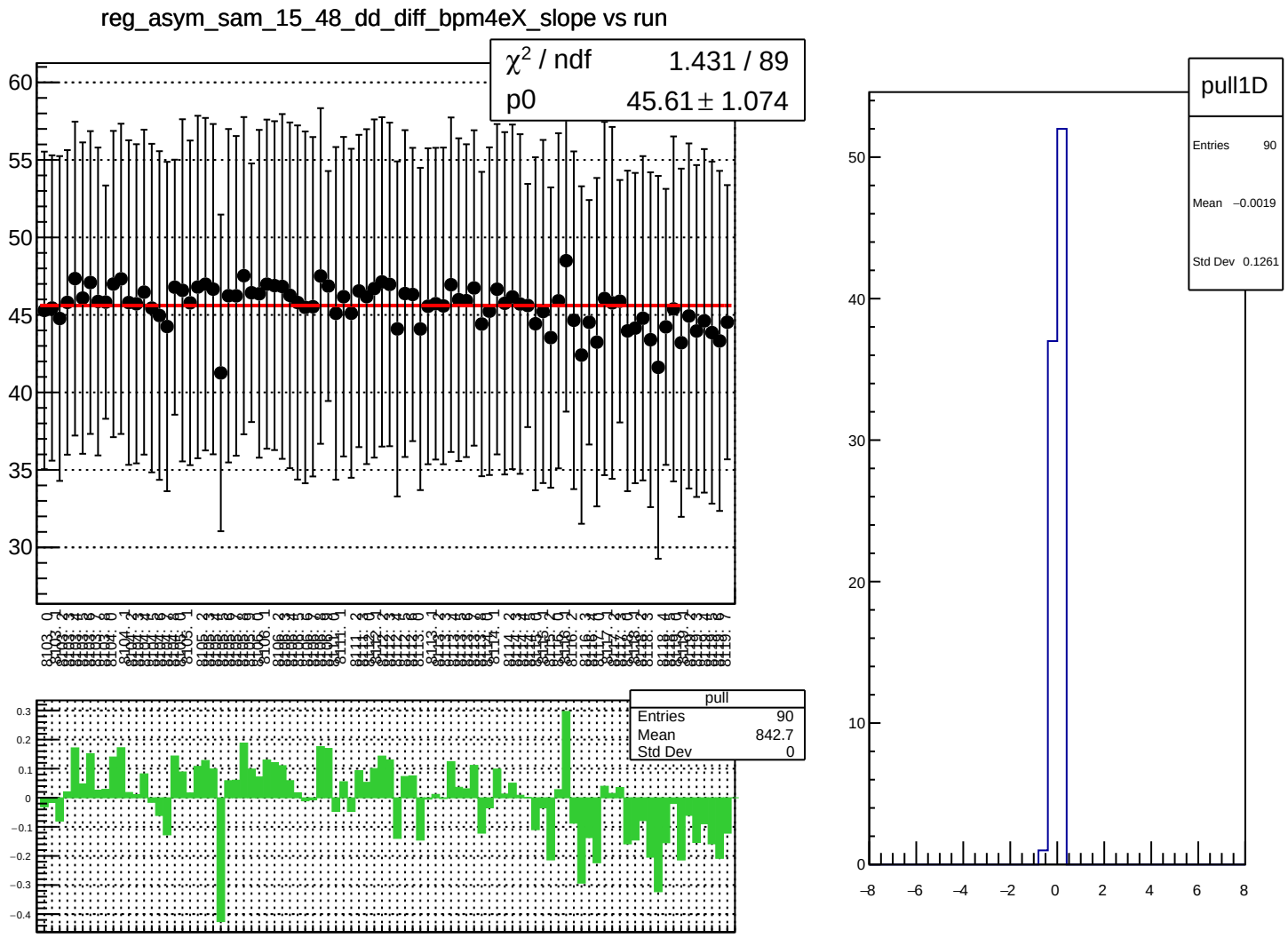

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 4.948 / 89
p0 0.6715 ± 0.1062
pull
Entries 90
Mean −828.5
Std Dev 0

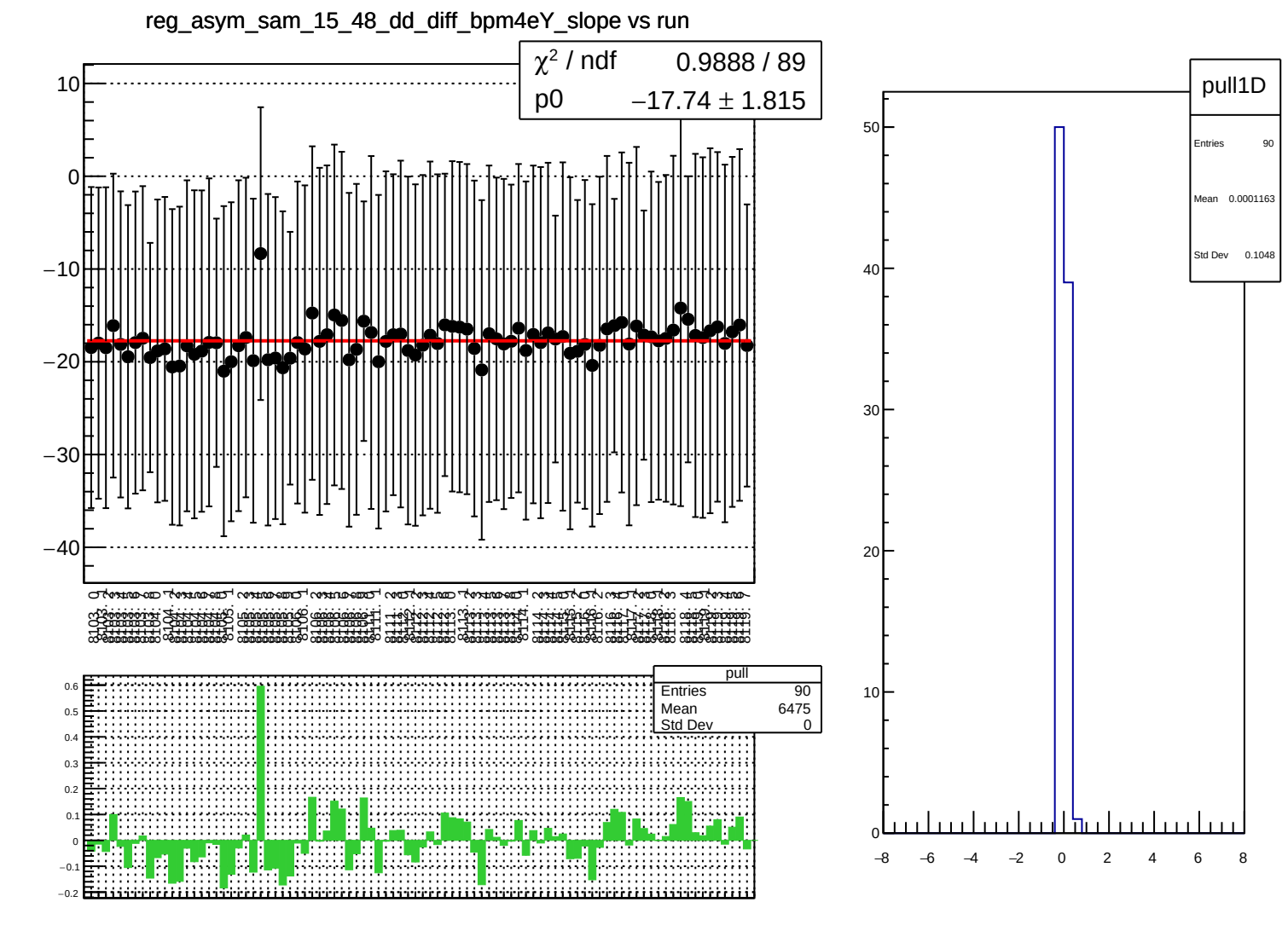

pull1D
Entries 90
Mean 0.003232
Std Dev 0.2345

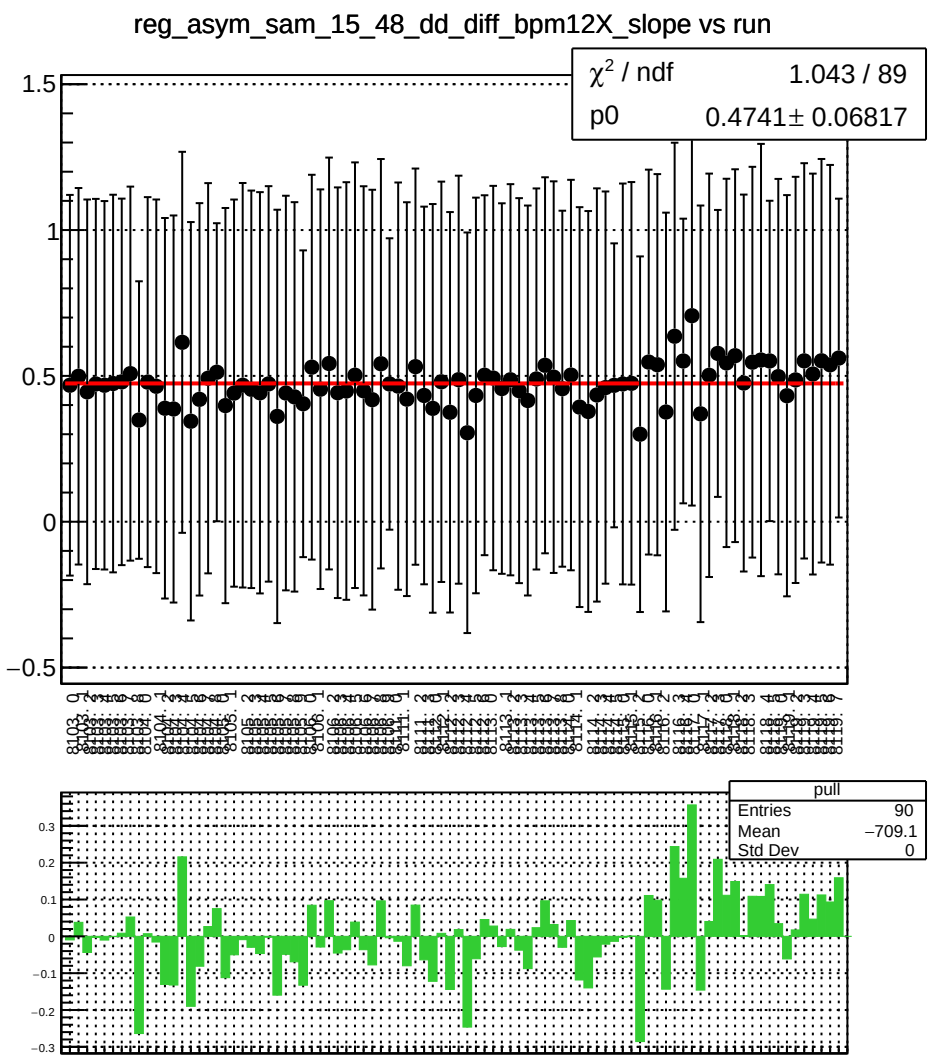

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.328 / 89
p0 9.971 ± 1.13
pull
Entries 90
Mean 667.7
Std Dev 0

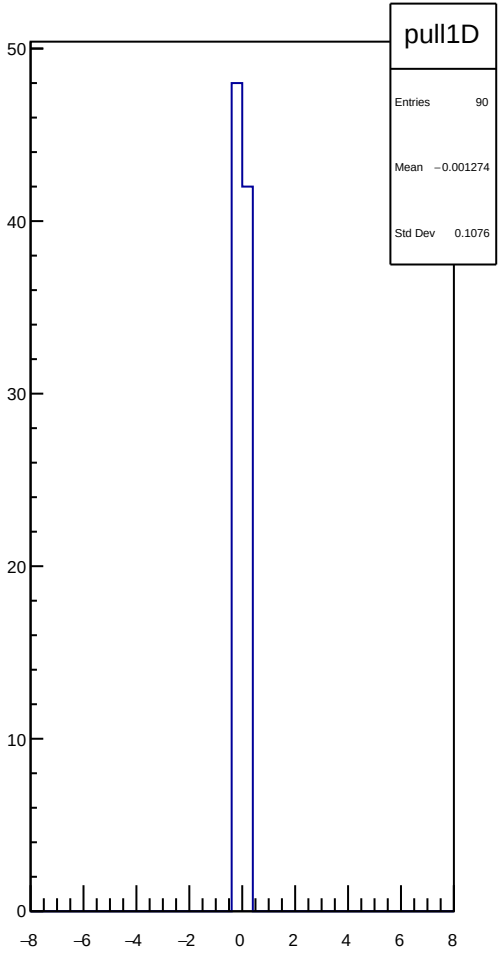

pull1D
Entries 90
Mean 0.002408
Std Dev 0.1215

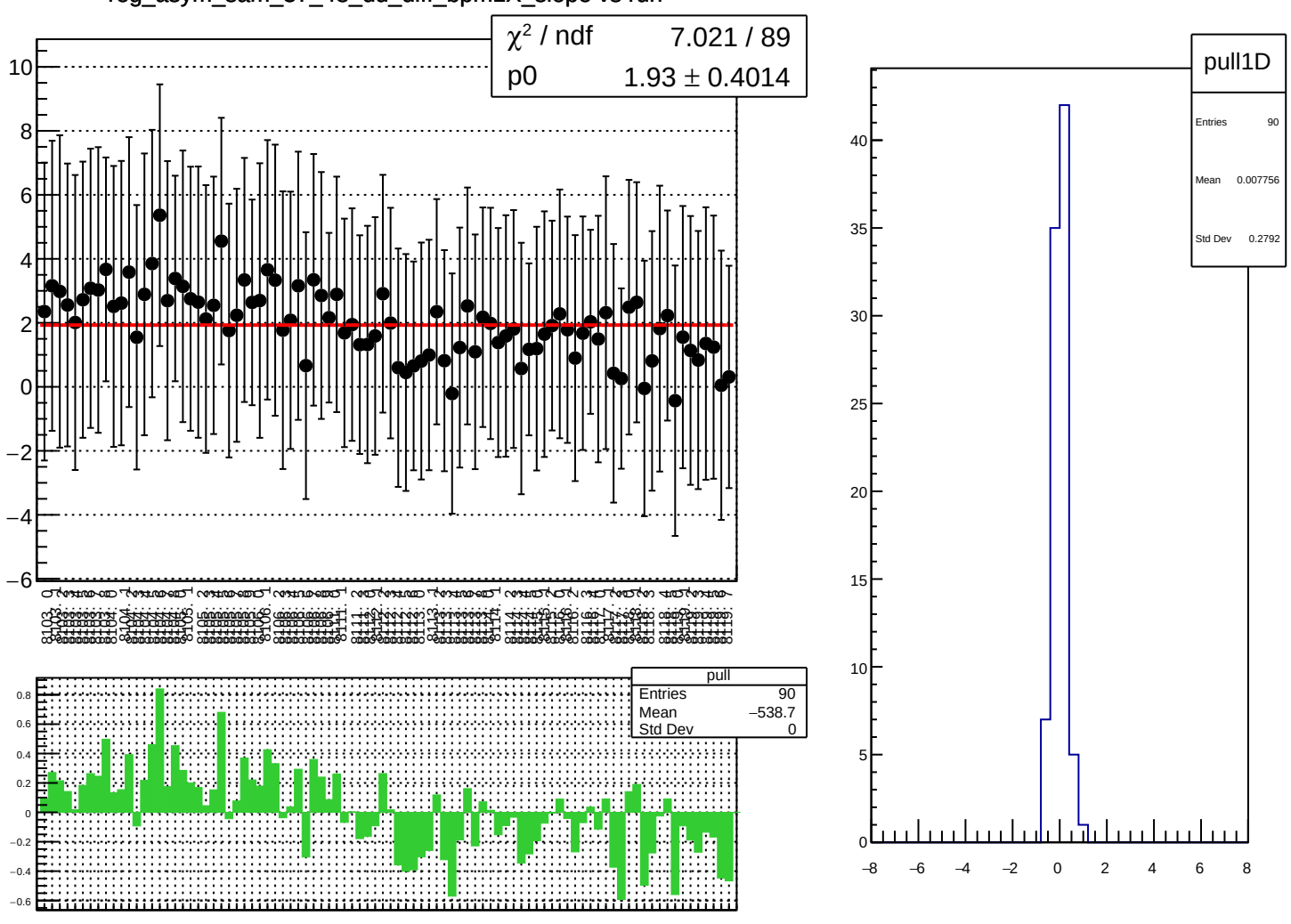

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8931 / 89
p0 −14.04 ± 1.698
pull
Entries 90
Mean −579.6
Std Dev 0
pull1D
Entries 90
Mean 0.0005175
Std Dev 0.09961

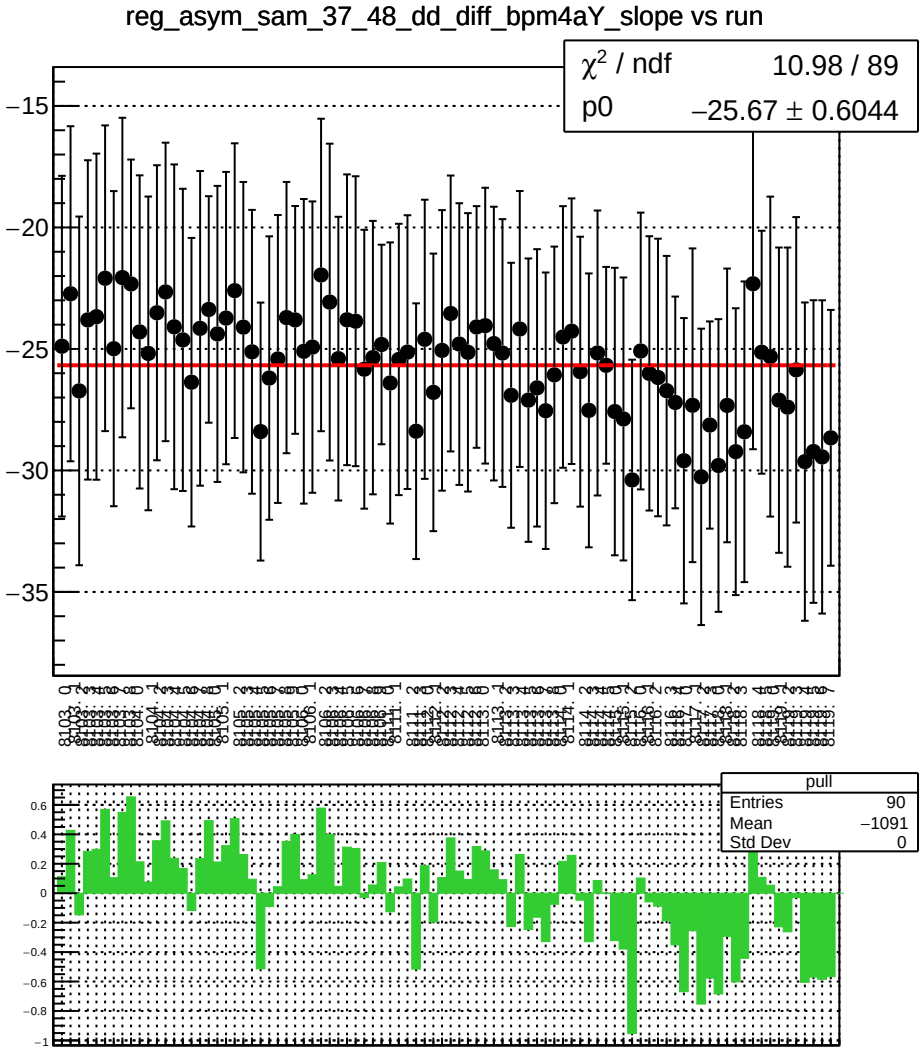

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.431 / 89
p0 45.61 ± 1.074
pull
Entries 90
Mean 842.7
Std Dev 0
pull1D
Entries 90
Mean −0.0019
Std Dev 0.1261

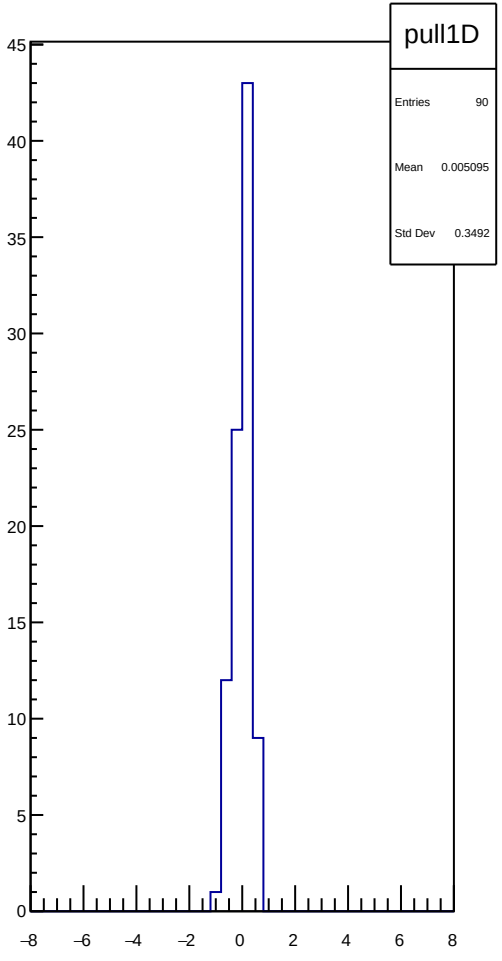

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9888 / 89
p0 −17.74 ± 1.815
pull
Entries 90
Mean 6475
Std Dev 0
pull1D
Entries 90
Mean 0.0001163
Std Dev 0.1048

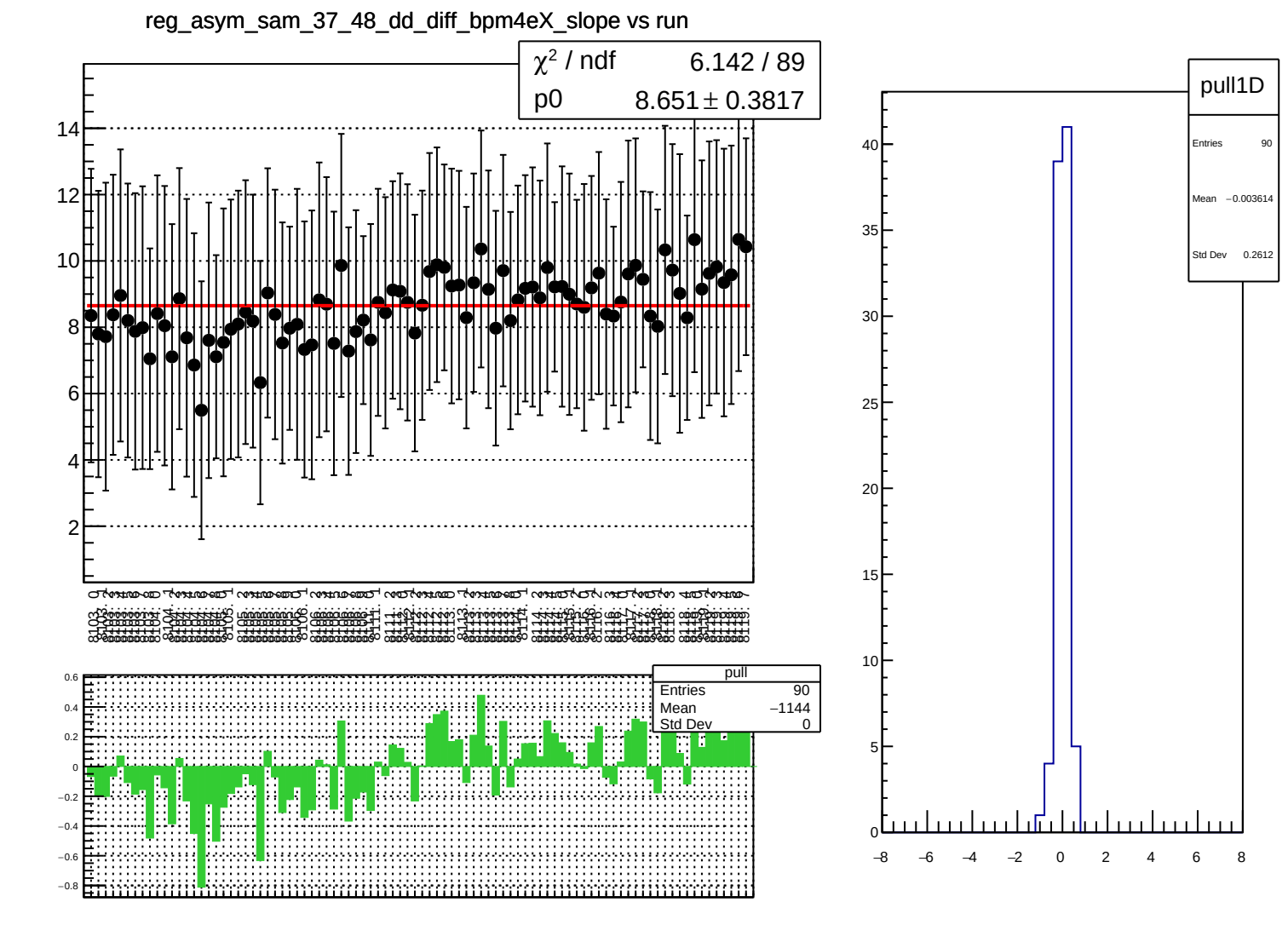

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.043 / 89
p0 0.4741± 0.06817
pull
Entries 90
Mean −709.1
Std Dev 0

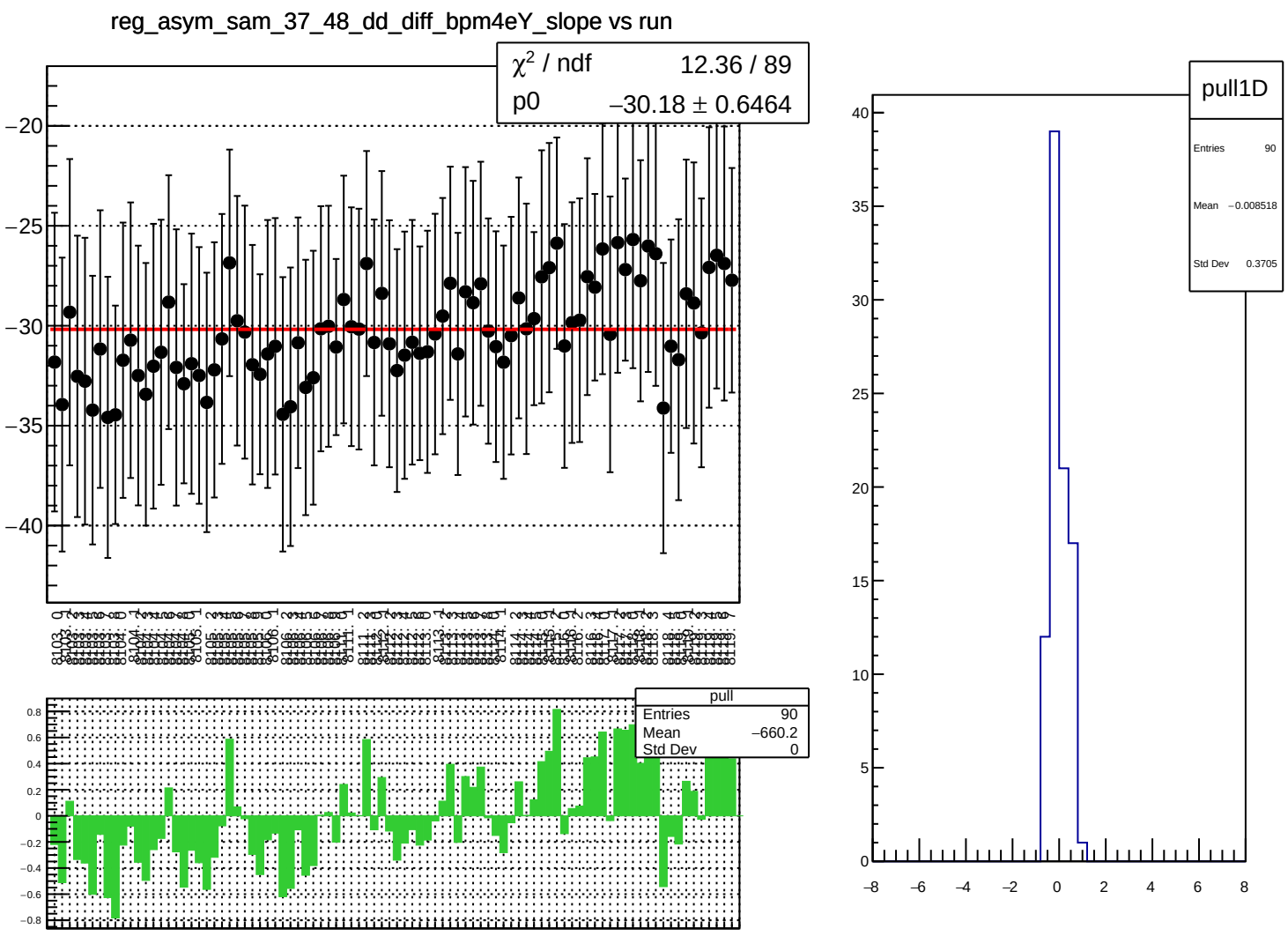

pull1D
Entries 90
Mean −0.001274
Std Dev 0.1076

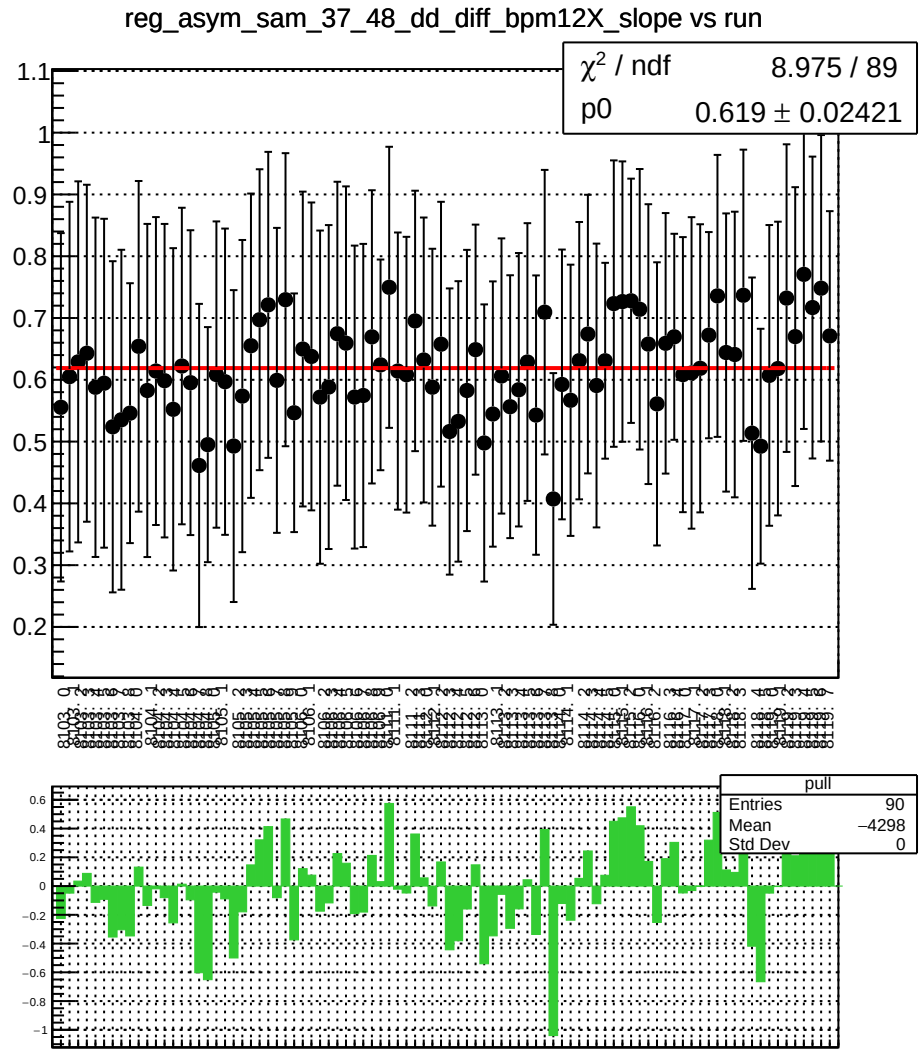

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.021 / 89
p0 1.93 ± 0.4014
pull
Entries 90
Mean −538.7
Std Dev 0
pull1D
Entries 90
Mean 0.007756
Std Dev 0.2792

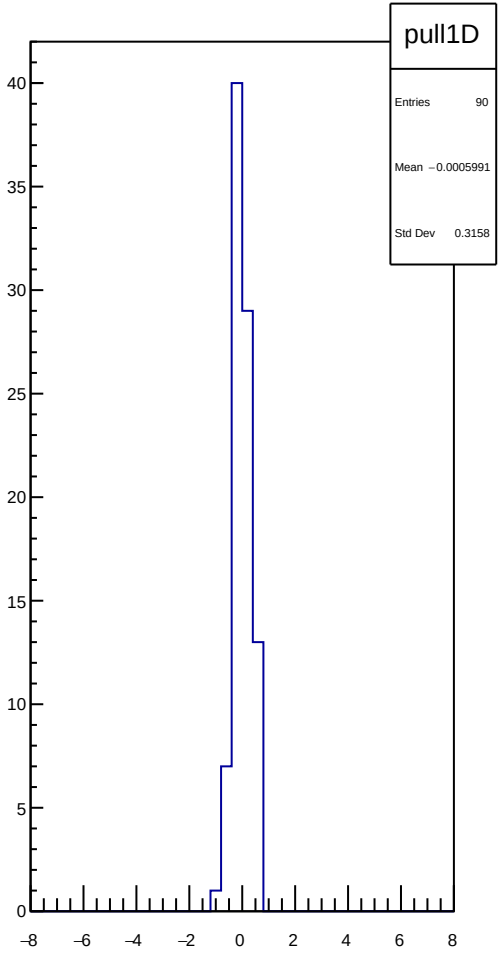

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.98 / 89
p0 −25.67 ± 0.6044
pull
Entries 90
Mean −1091
Std Dev 0

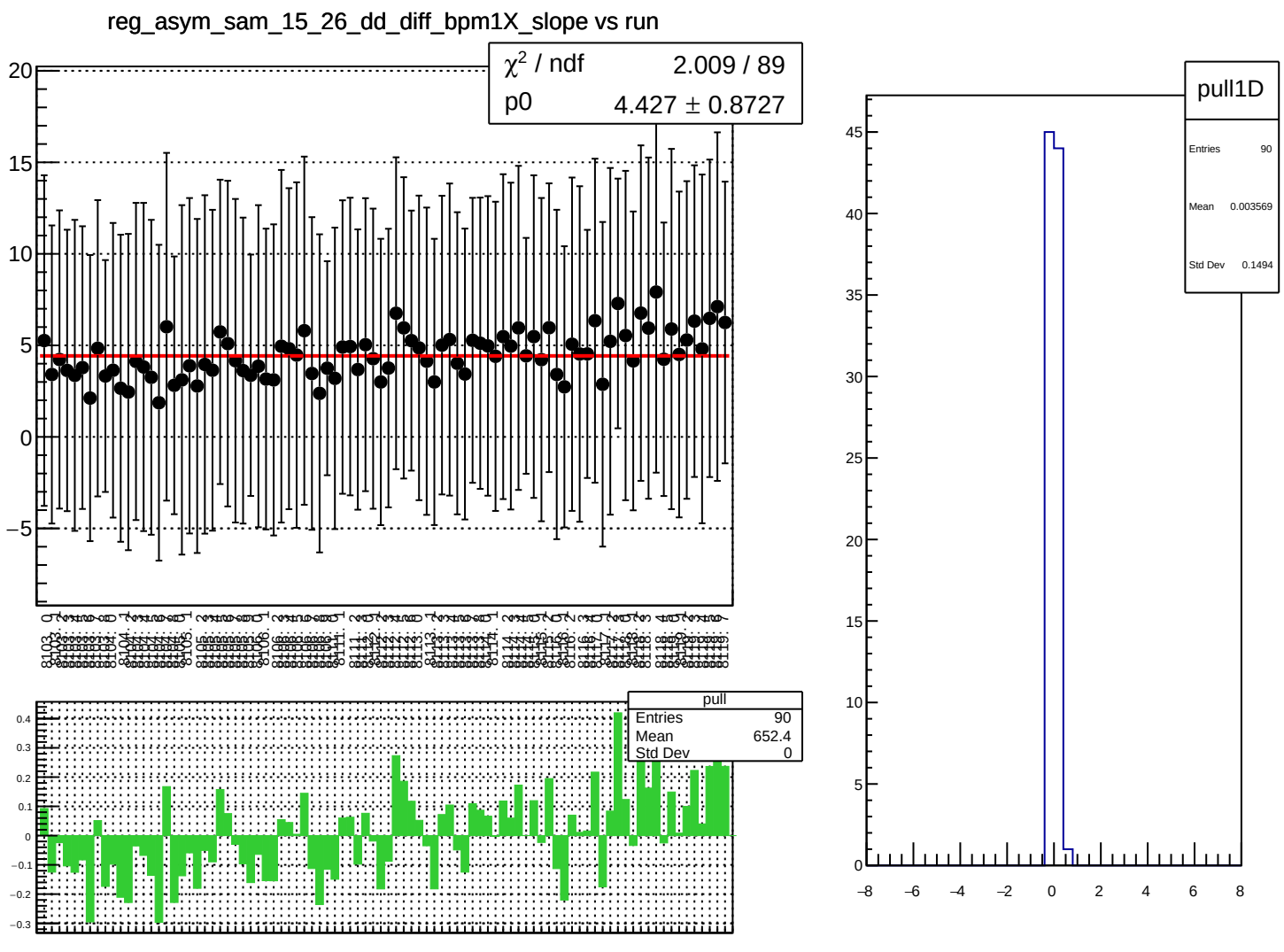

pull1D
Entries 90
Mean 0.005095
Std Dev 0.3492

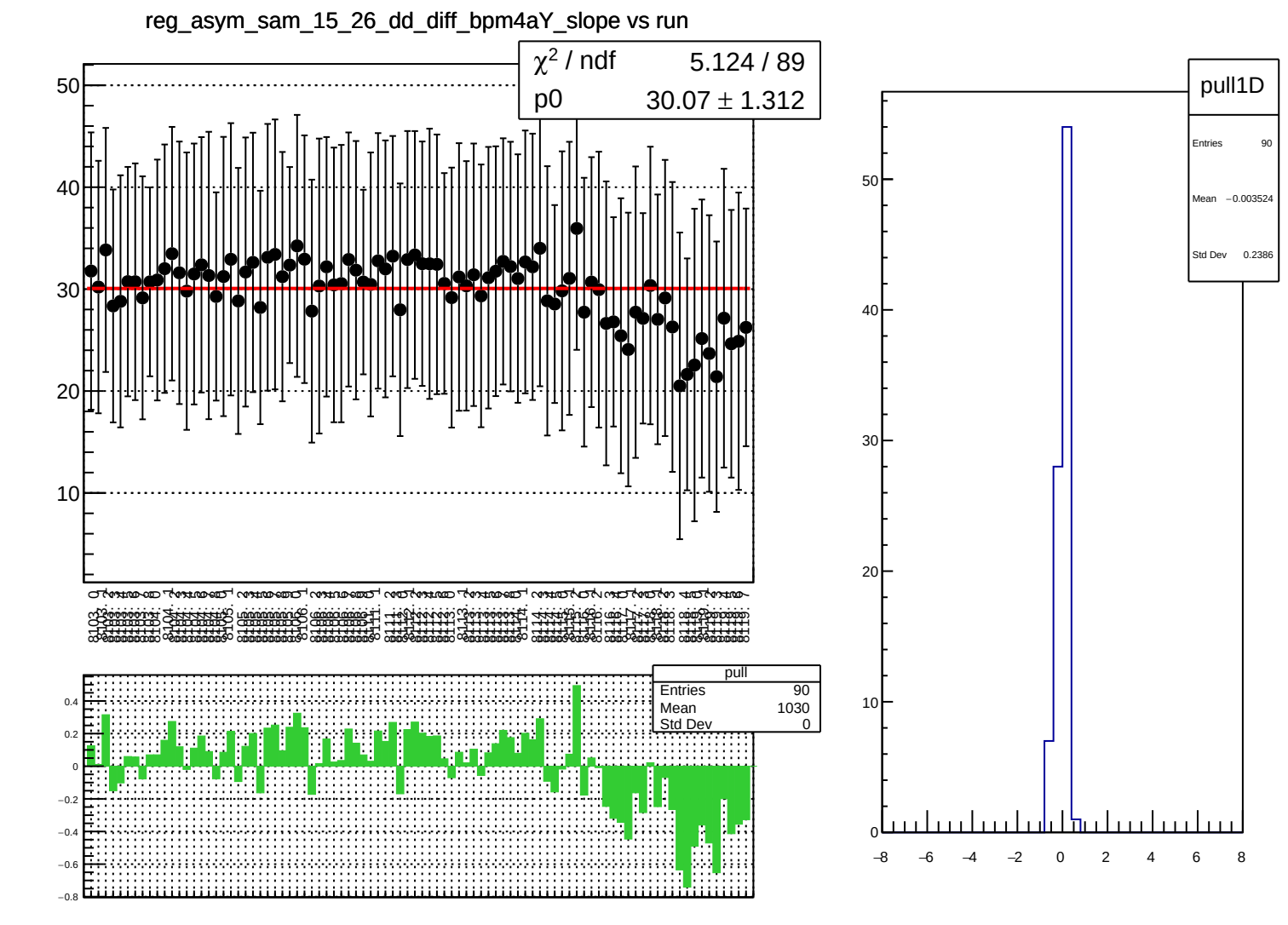

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.142 / 89
p0 8.651 ± 0.3817
pull
Entries 90
Mean −1144
Std Dev 0
pull1D
Entries 90
Mean −0.003614
Std Dev 0.2612

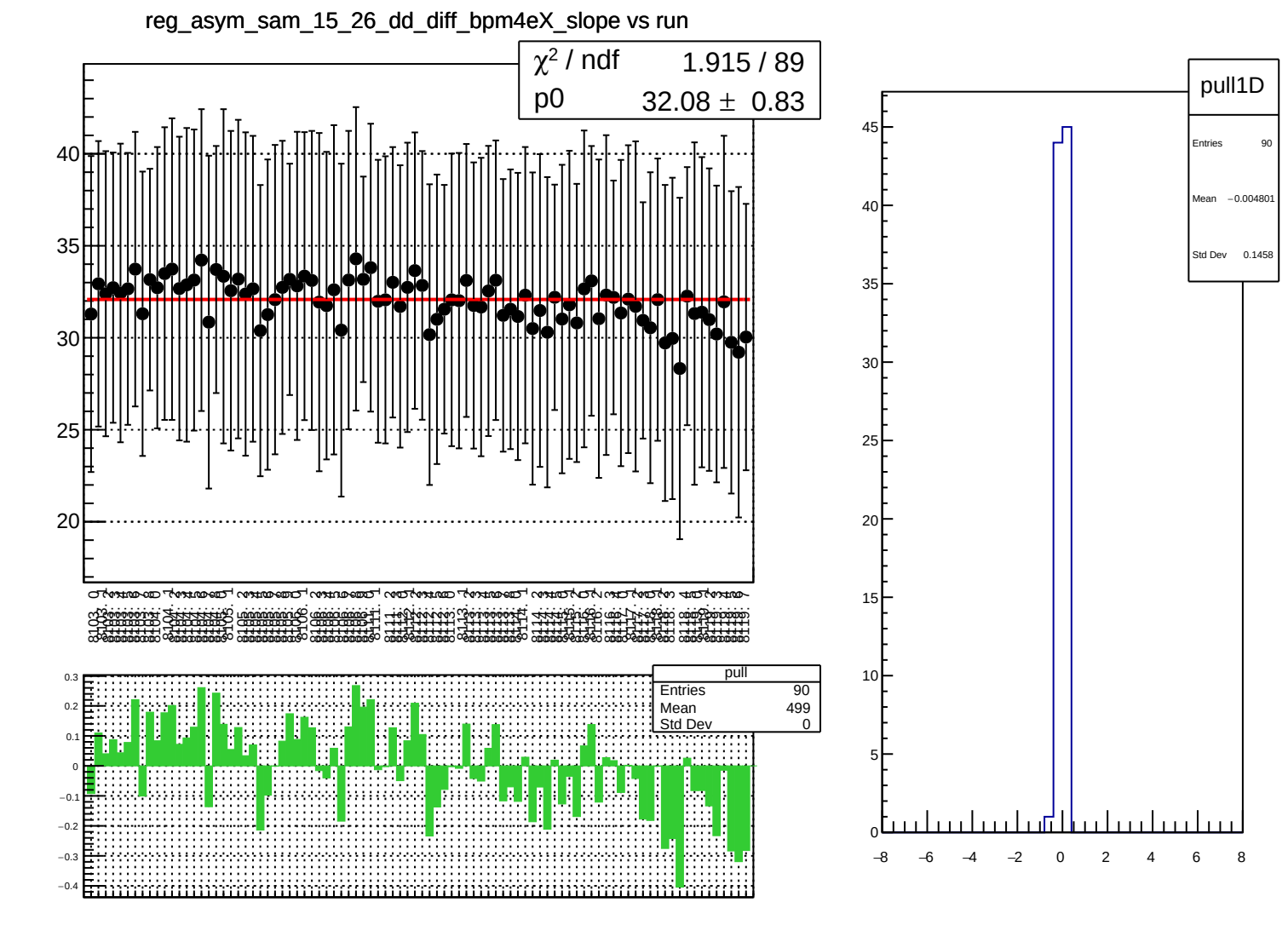

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.36 / 89
p0 −30.18 ± 0.6464
pull
Entries 90
Mean −660.2
Std Dev 0
pull1D
Entries 90
Mean −0.008518
Std Dev 0.3705

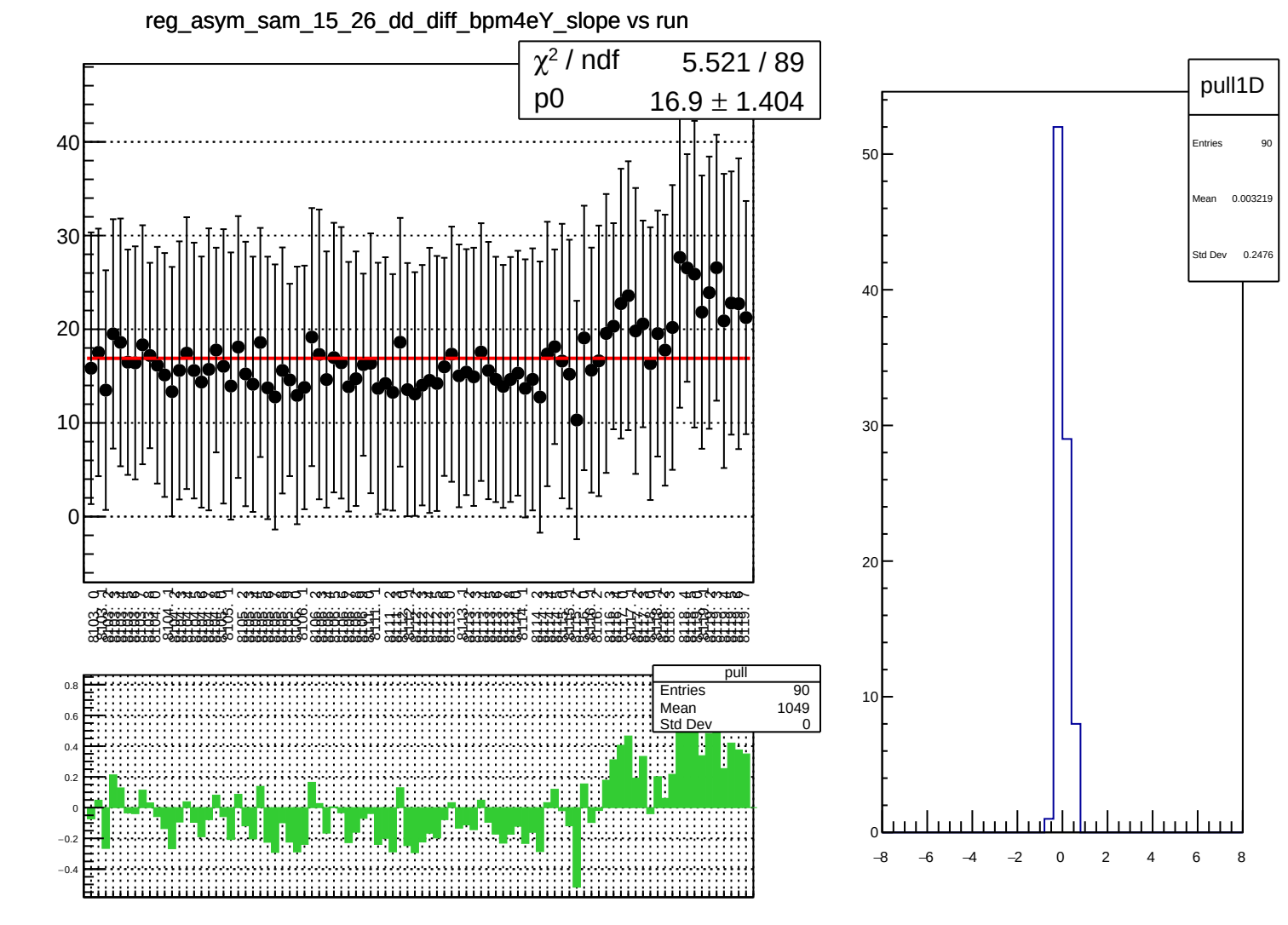

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.975 / 89
p0 0.619 ± 0.02421
pull
Entries 90
Mean −4298
Std Dev 0

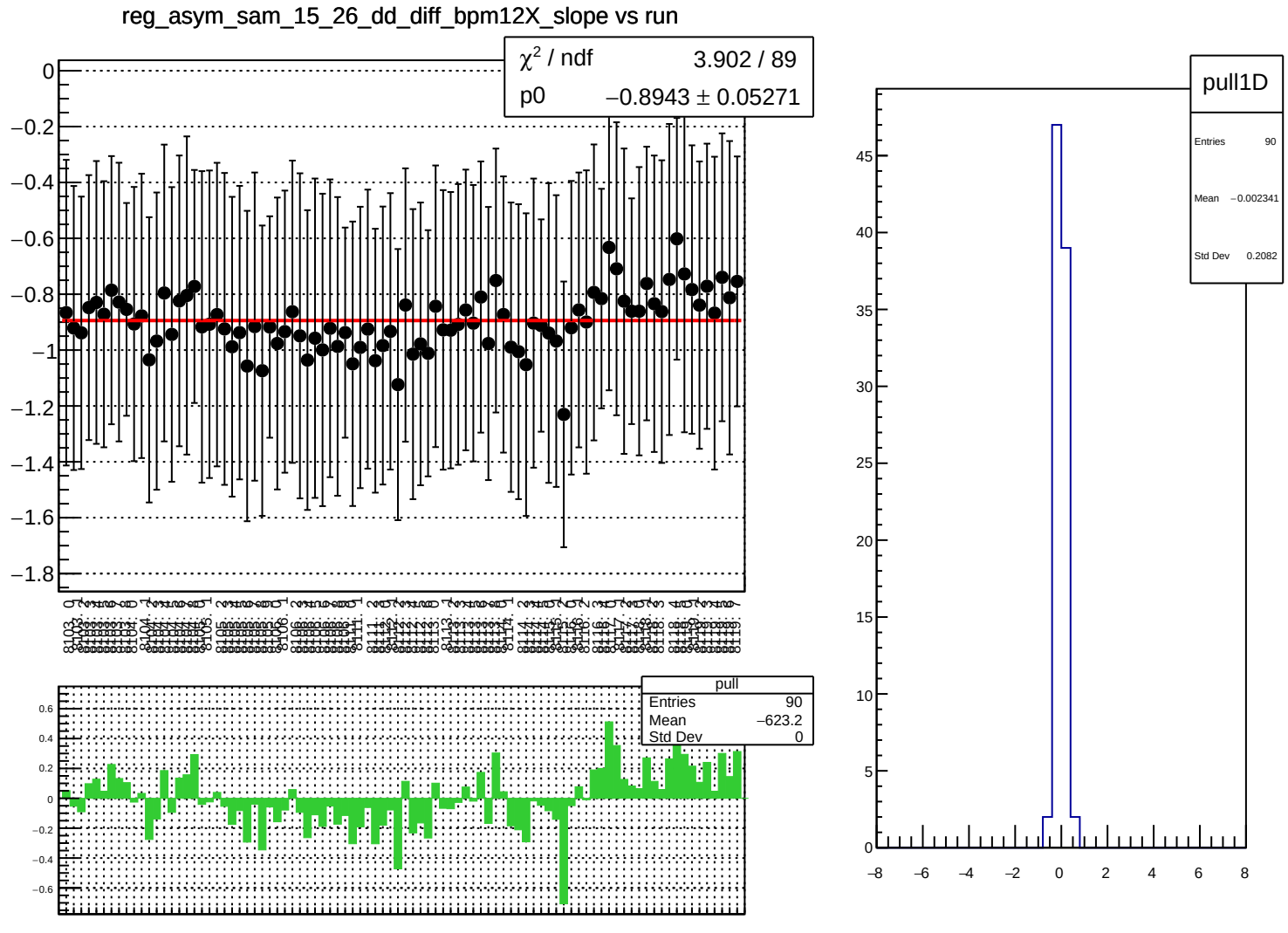

pull1D
Entries 90
Mean −0.0005991
Std Dev 0.3158

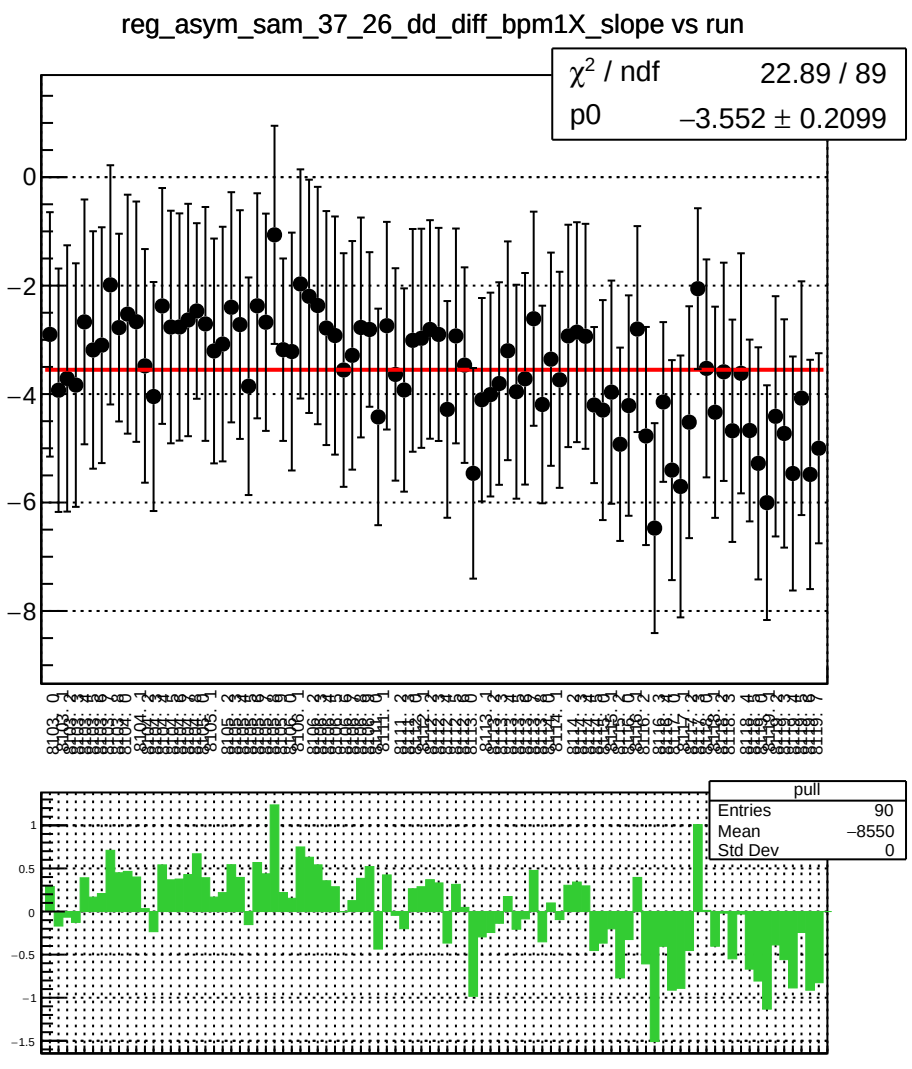

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.009 / 89
p0 4.427 ± 0.8727
pull
Entries 90
Mean 652.4
Std Dev 0
pull1D
Entries 90
Mean 0.003569
Std Dev 0.1494

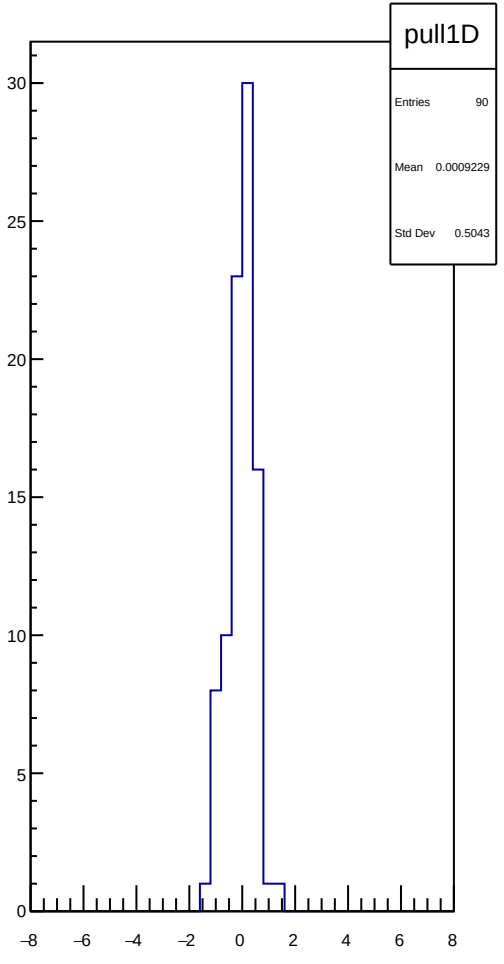

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.124 / 89
p0 30.07 ± 1.312
pull
Entries 90
Mean 1030
Std Dev 0
pull1D
Entries 90
Mean −0.003524
Std Dev 0.2386

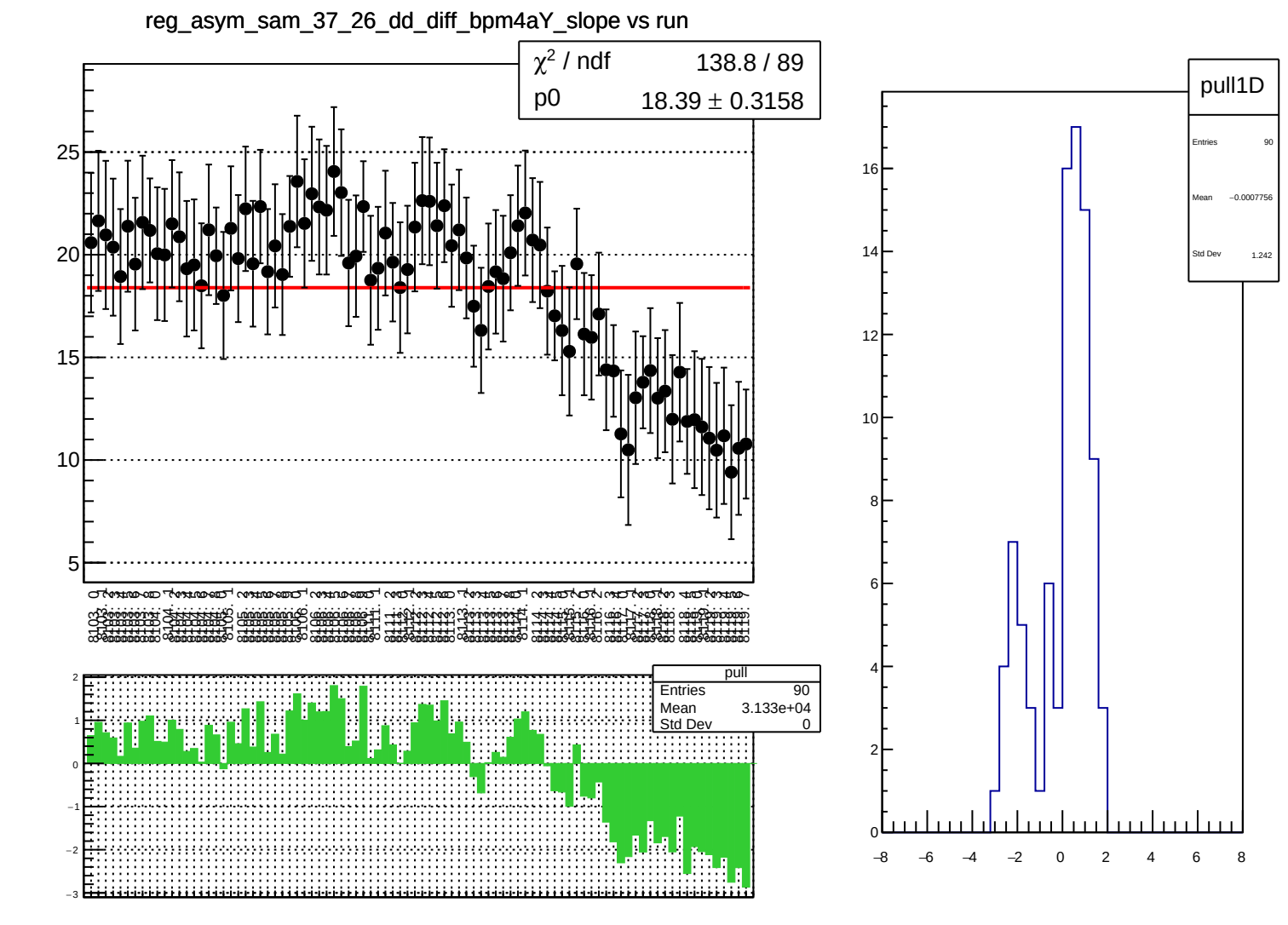

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.915 / 89
p0 32.08 ± 0.83
pull
Entries 90
Mean 499
Std Dev 0
pull1D
Entries 90
Mean −0.004801
Std Dev 0.1458

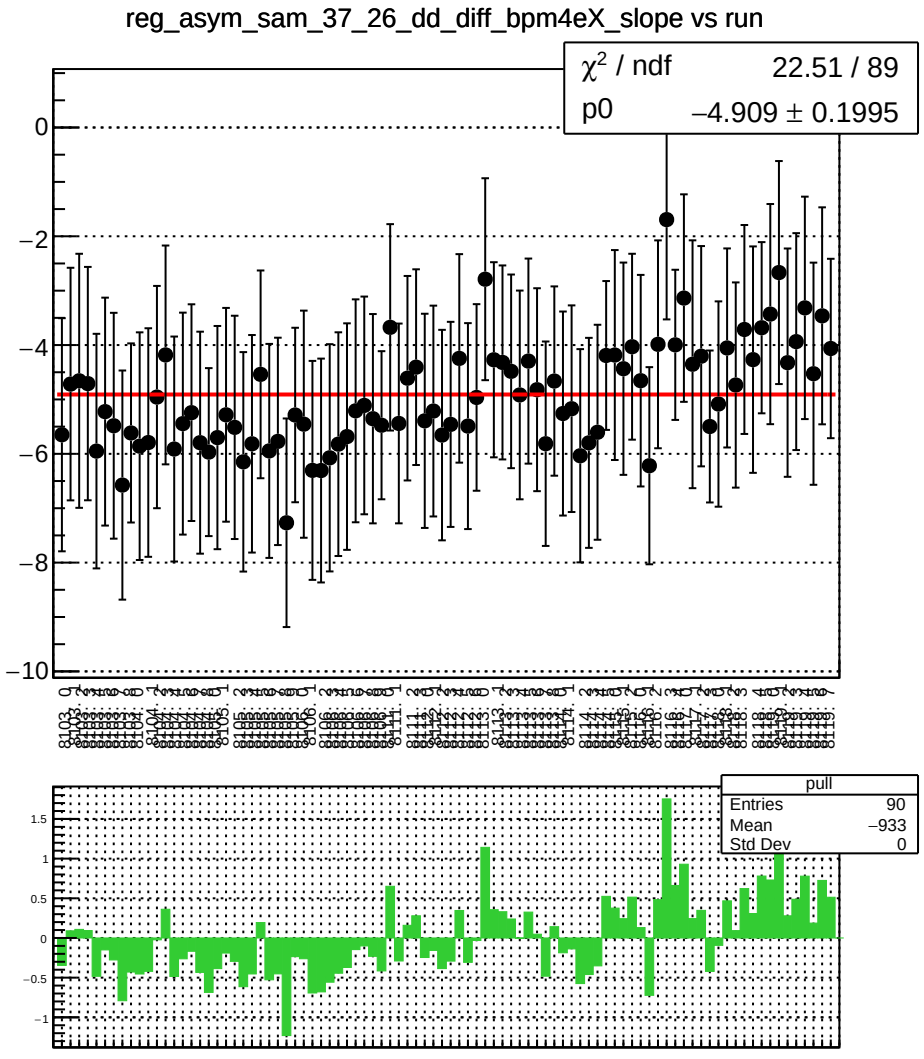

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.521 / 89
p0 16.9 ± 1.404
pull
Entries 90
Mean 1049
Std Dev 0
pull1D
Entries 90
Mean 0.003219
Std Dev 0.2476

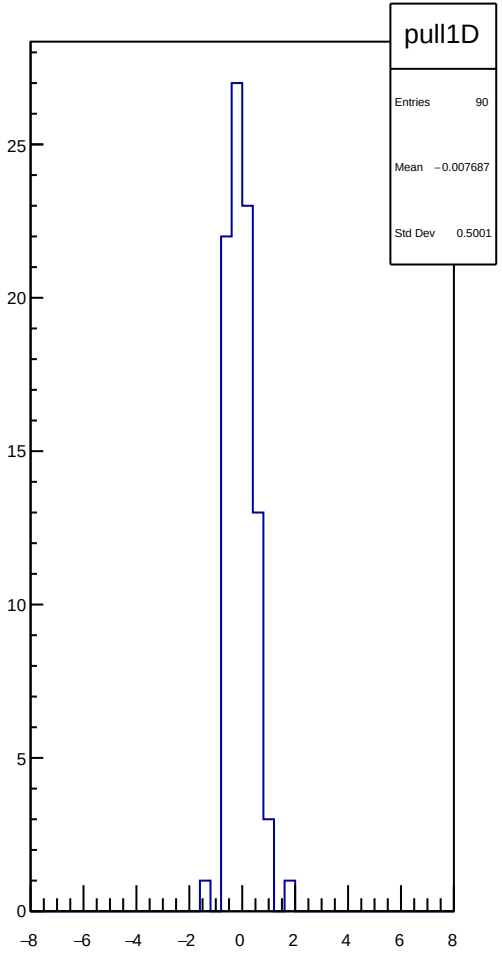

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.902 / 89
p0 −0.8943 ± 0.05271
pull
Entries 90
Mean −623.2
Std Dev 0
pull1D
Entries 90
Mean −0.002341
Std Dev 0.2082

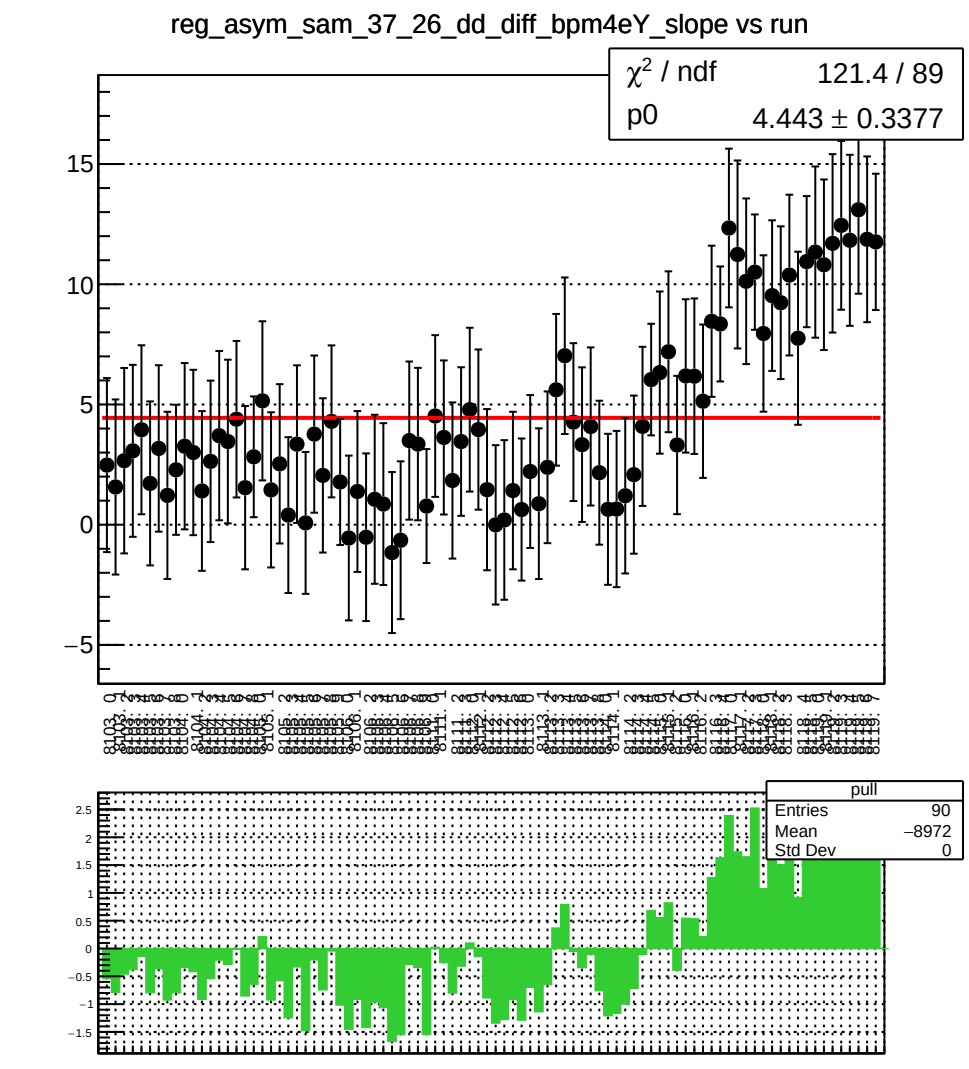

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 22.89 / 89
p0 −3.552 ± 0.2099
pull
Entries 90
Mean −8550
Std Dev 0

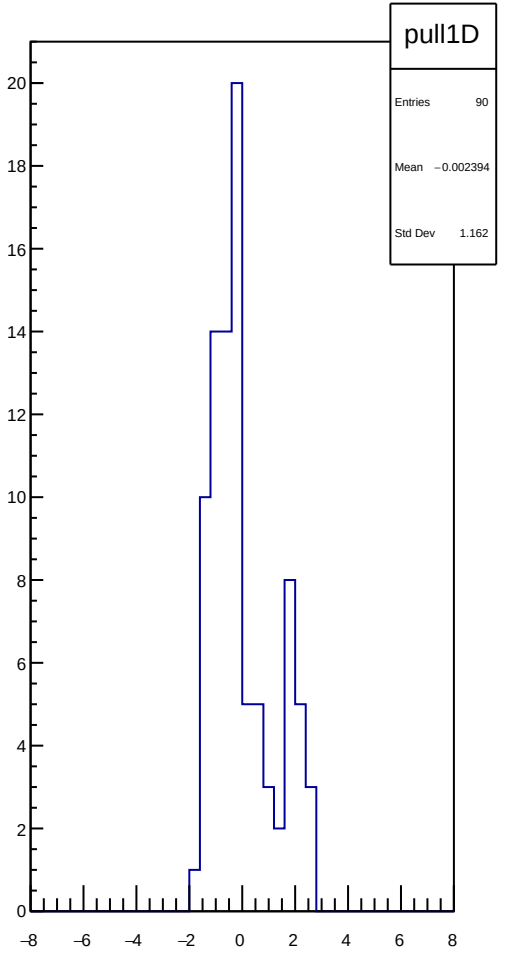

pull1D
Entries 90
Mean 0.0009229
Std Dev 0.5043

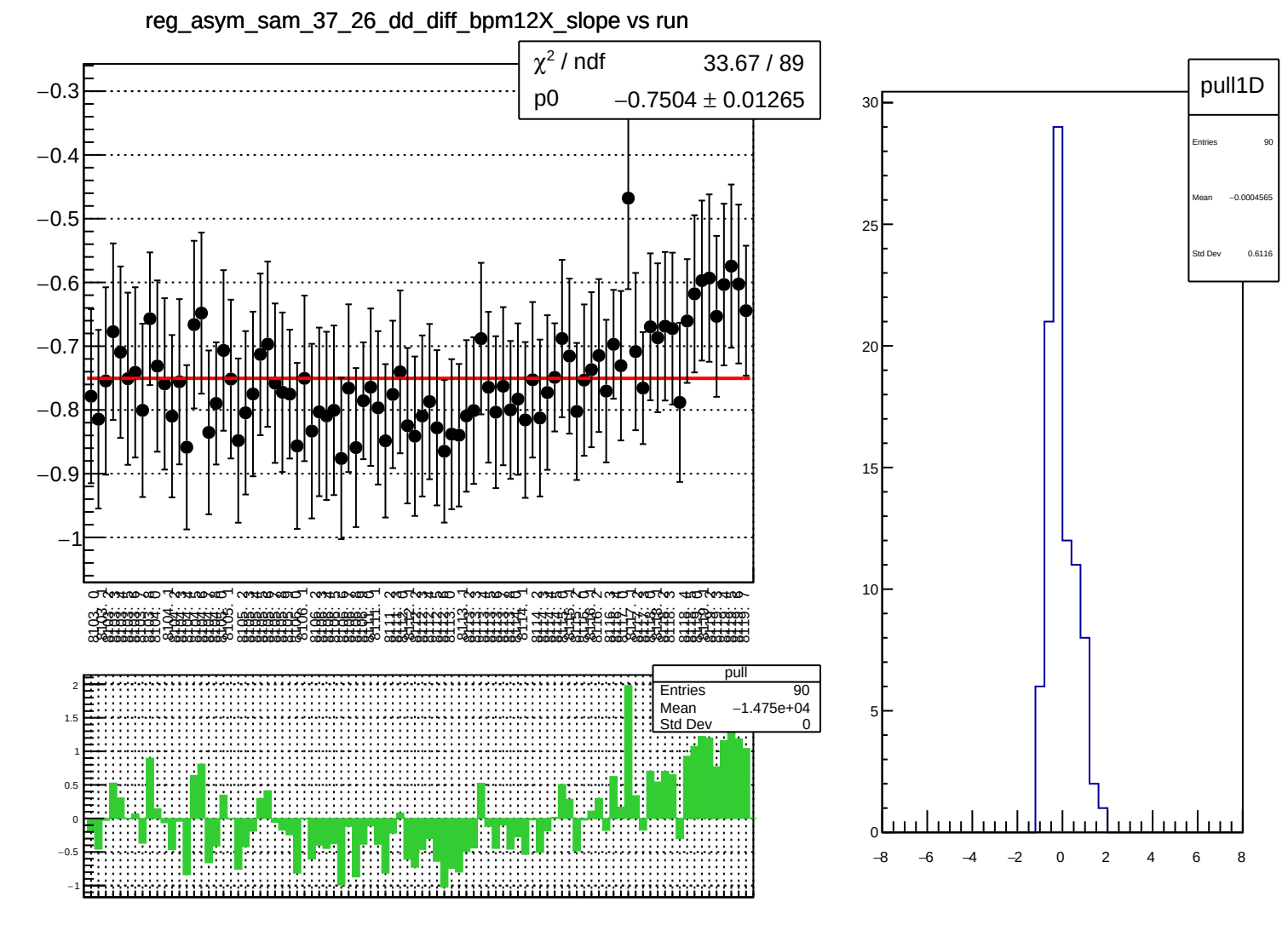

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 138.8 / 89
p0 18.39 ± 0.3158
pull
Entries 90
Mean 3.133e+04
Std Dev 0
pull1D
Entries 90
Mean −0.0007756
Std Dev 1.242

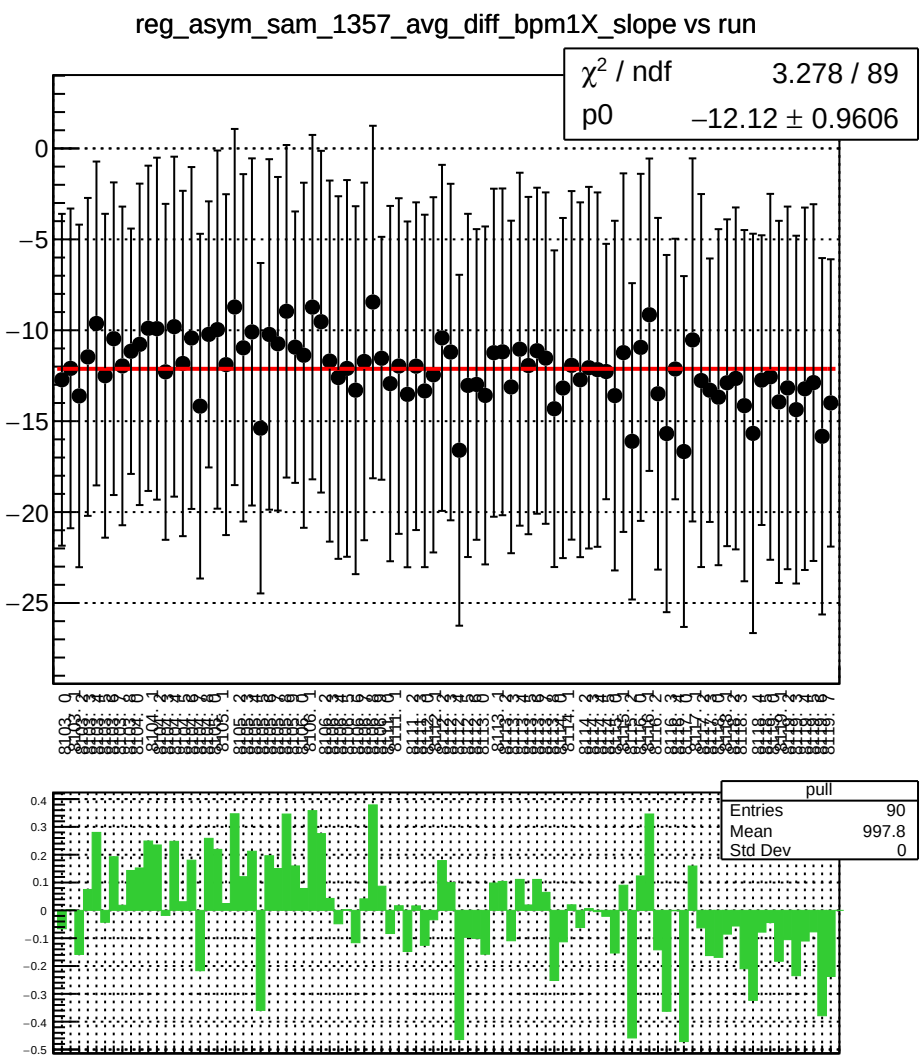

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.51 / 89
p0 −4.909 ± 0.1995
pull
Entries 90
Mean −933
Std Dev 0

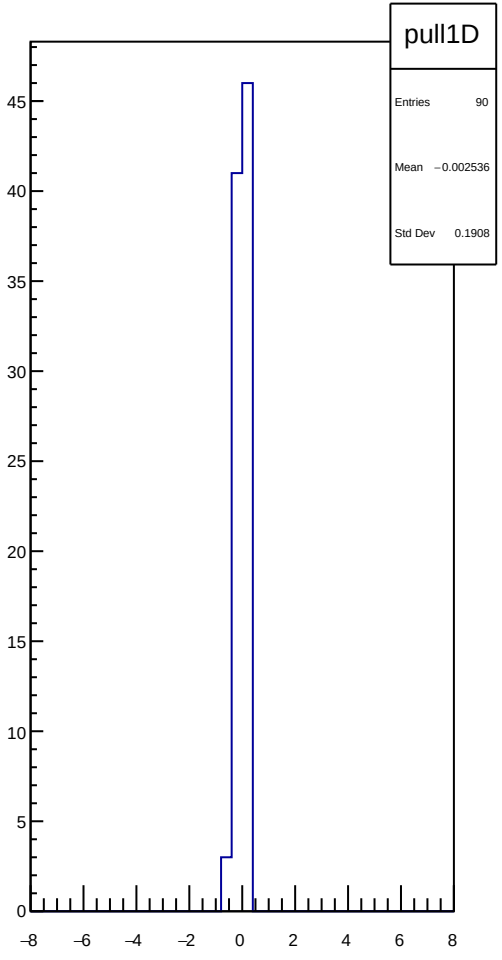

pull1D
Entries 90
Mean −0.007687
Std Dev 0.5001

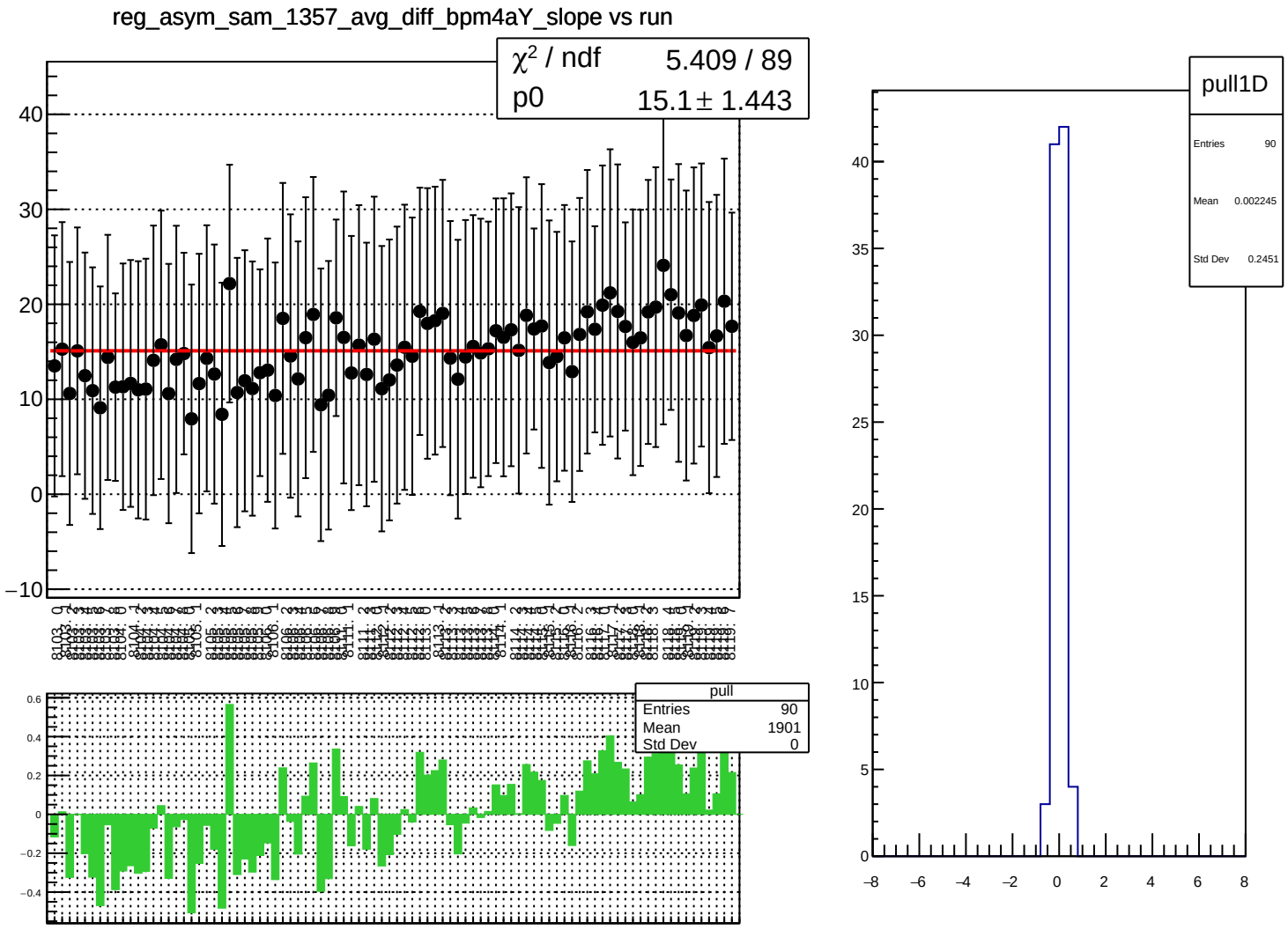

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 121.4 / 89
p0 4.443 ± 0.3377
pull
Entries 90
Mean −8972
Std Dev 0

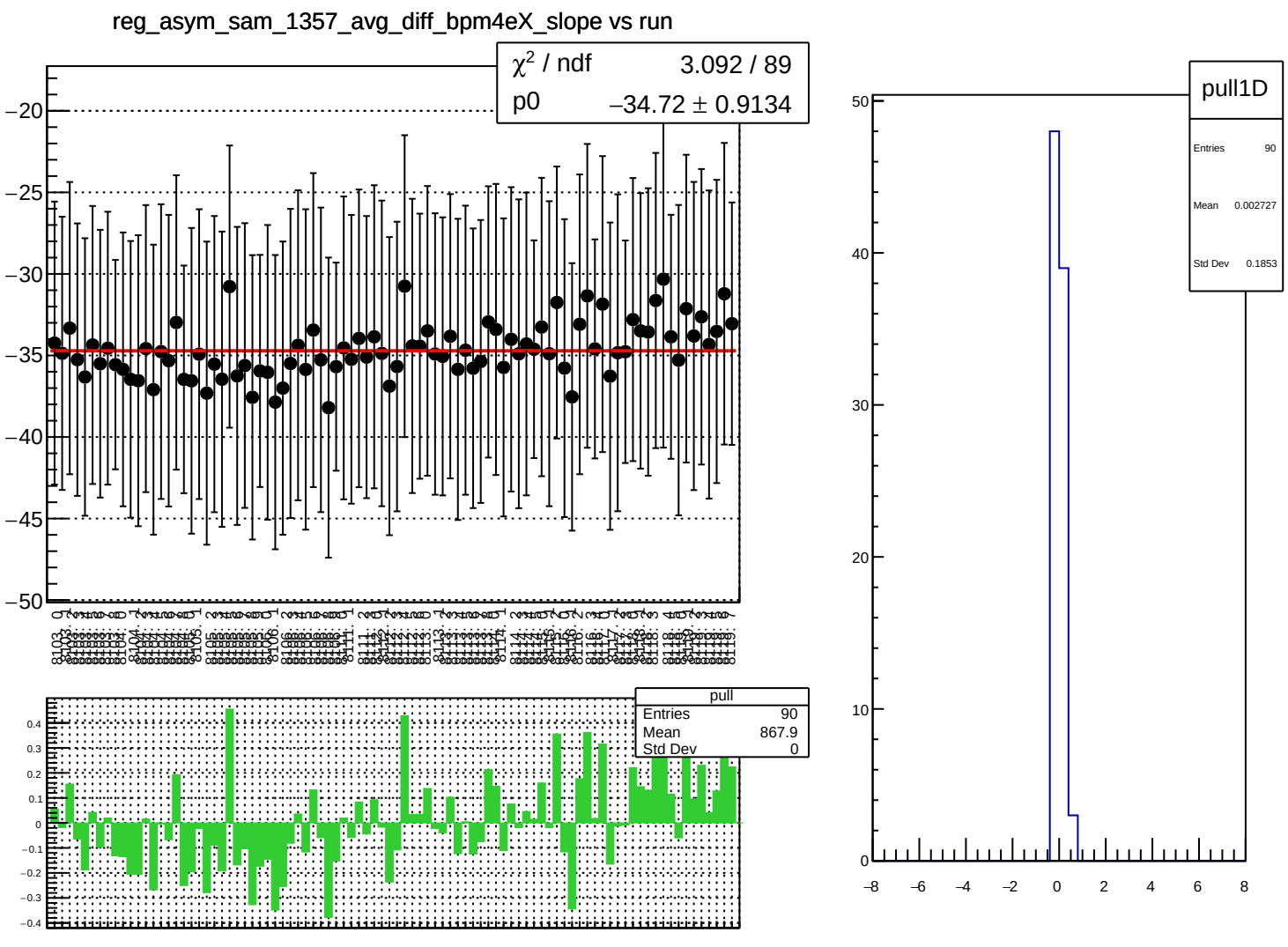

pull1D
Entries 90
Mean −0.002394
Std Dev 1.162

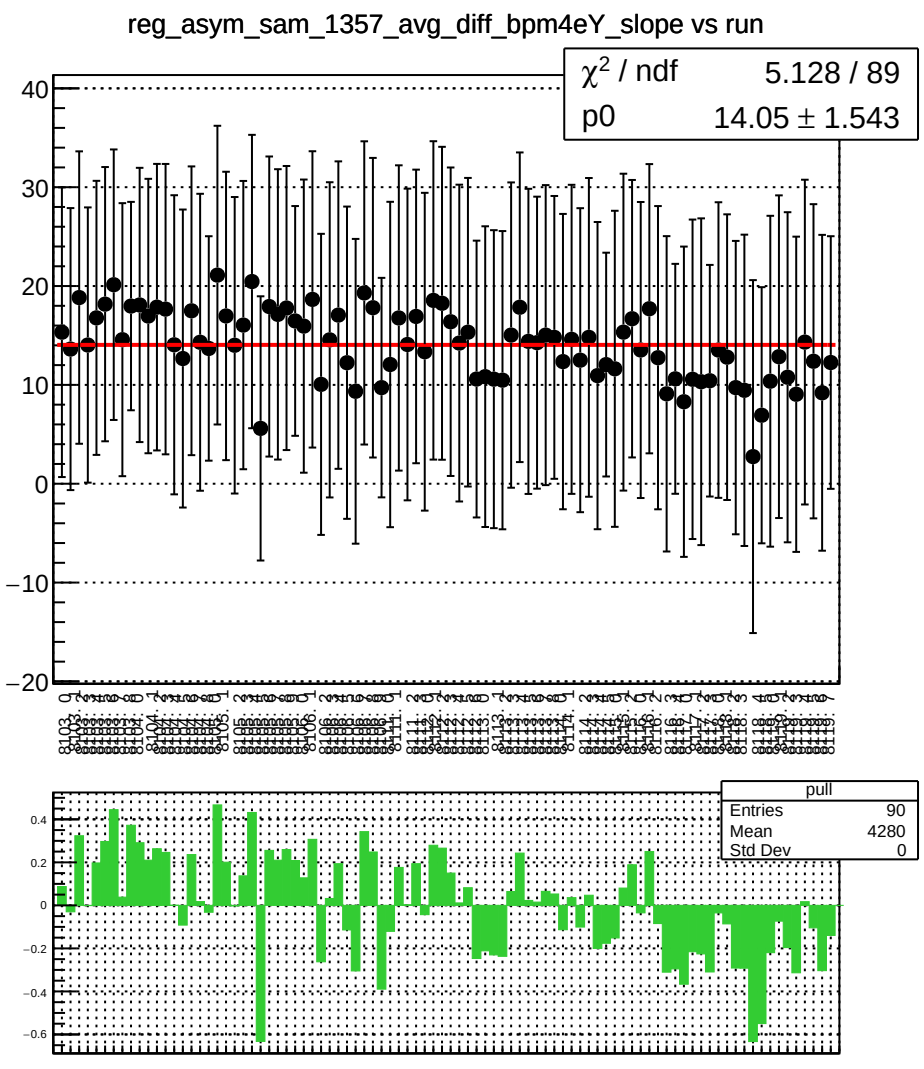

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 33.67 / 89
p0 −0.7504 ± 0.01265
pull
Entries 90
Mean −1.475e+04
Std Dev 0
pull1D
Entries 90
Mean −0.0004565
Std Dev 0.6116

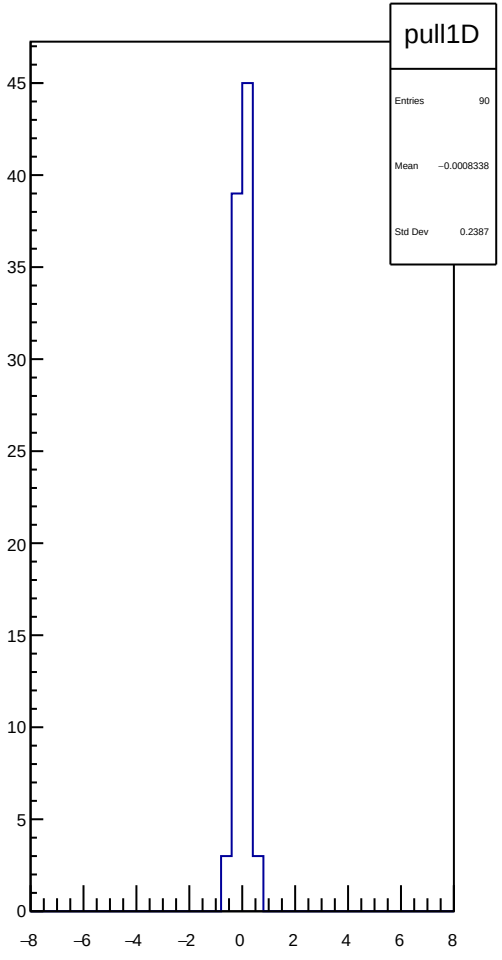

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 3.278 / 89
p0 −12.12 ± 0.9606
pull
Entries 90
Mean 997.8
Std Dev 0

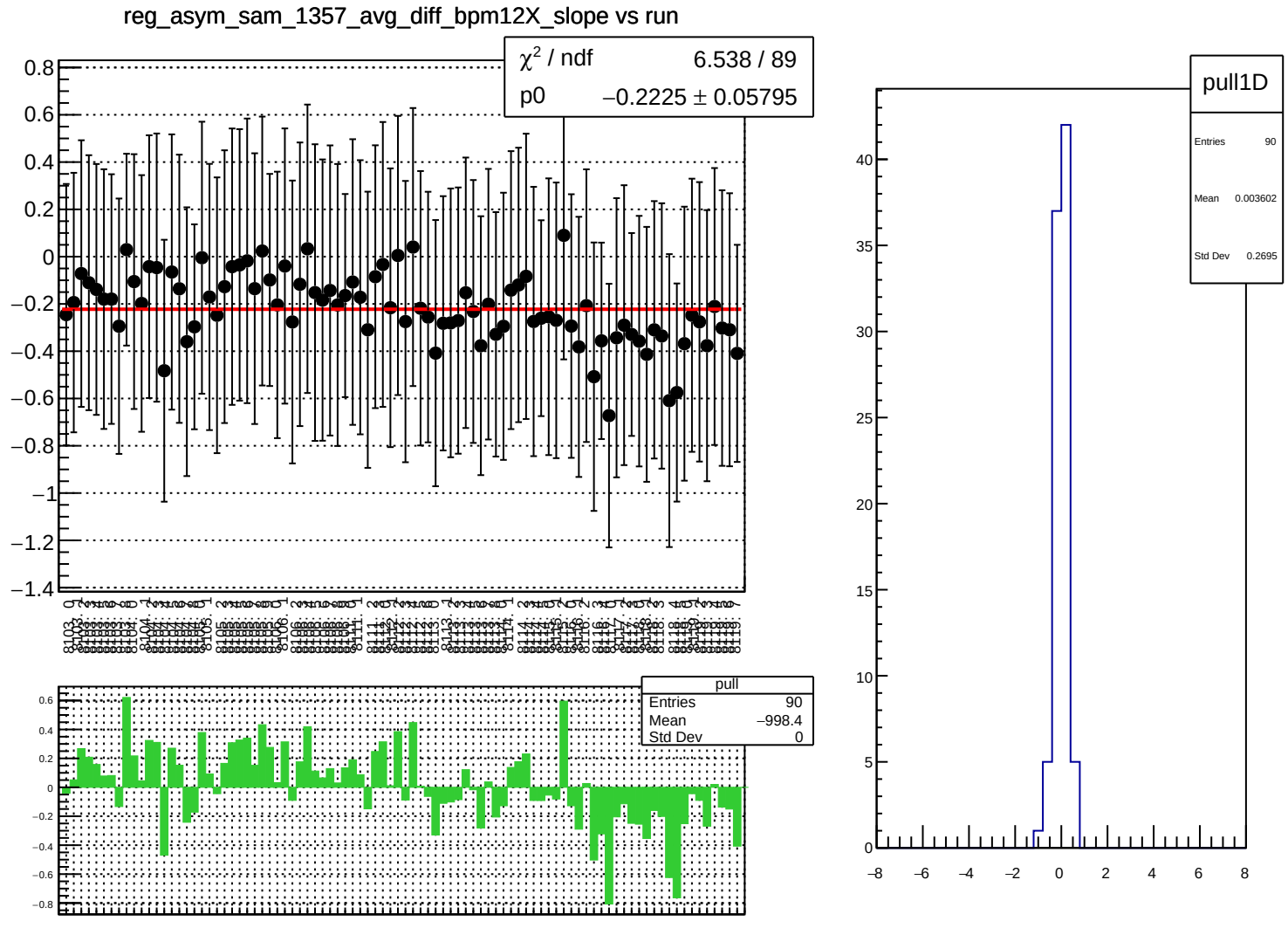

pull1D
Entries 90
Mean −0.002536
Std Dev 0.1908

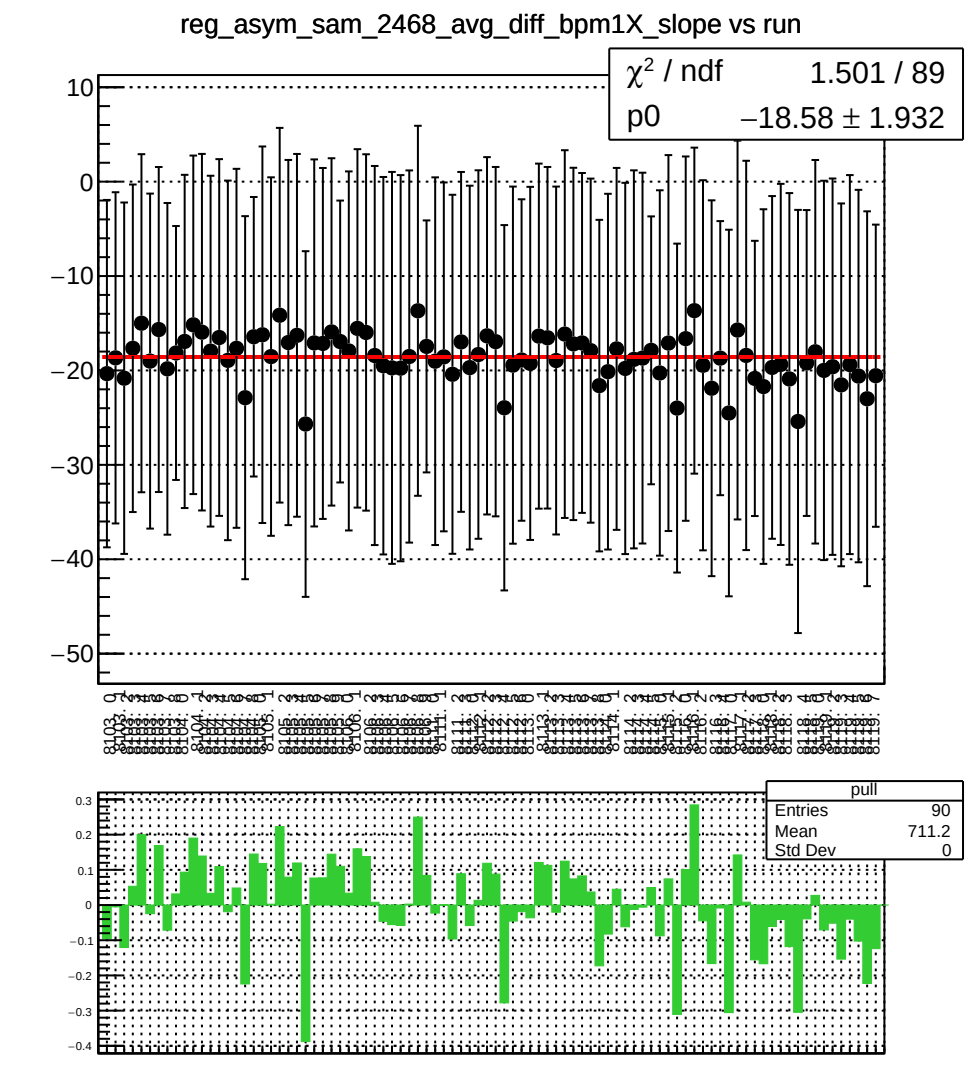

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.409 / 89
p0 15.1 ± 1.443
pull
Entries 90
Mean 1901
Std Dev 0
pull1D
Entries 90
Mean 0.002245
Std Dev 0.2451

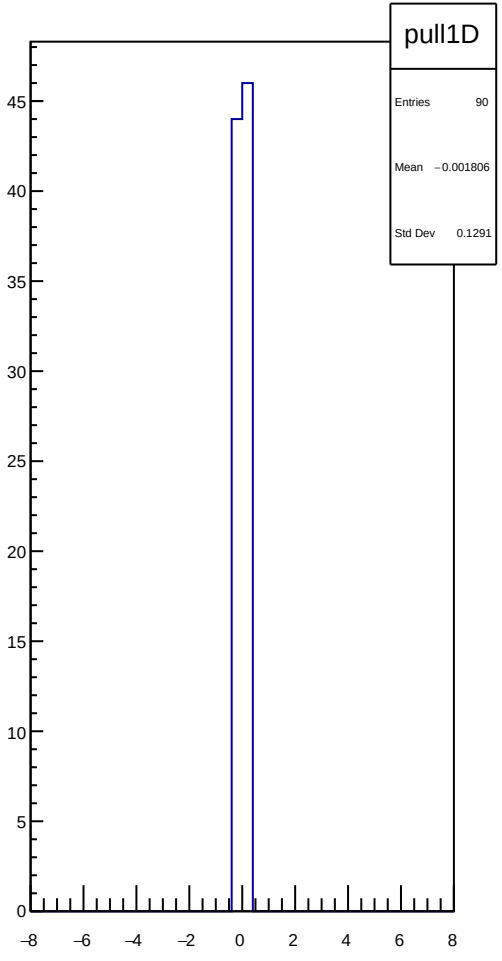

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.092 / 89
p0 −34.72 ± 0.9134
pull
Entries 90
Mean 867.9
Std Dev 0
pull1D
Entries 90
Mean 0.002727
Std Dev 0.1853

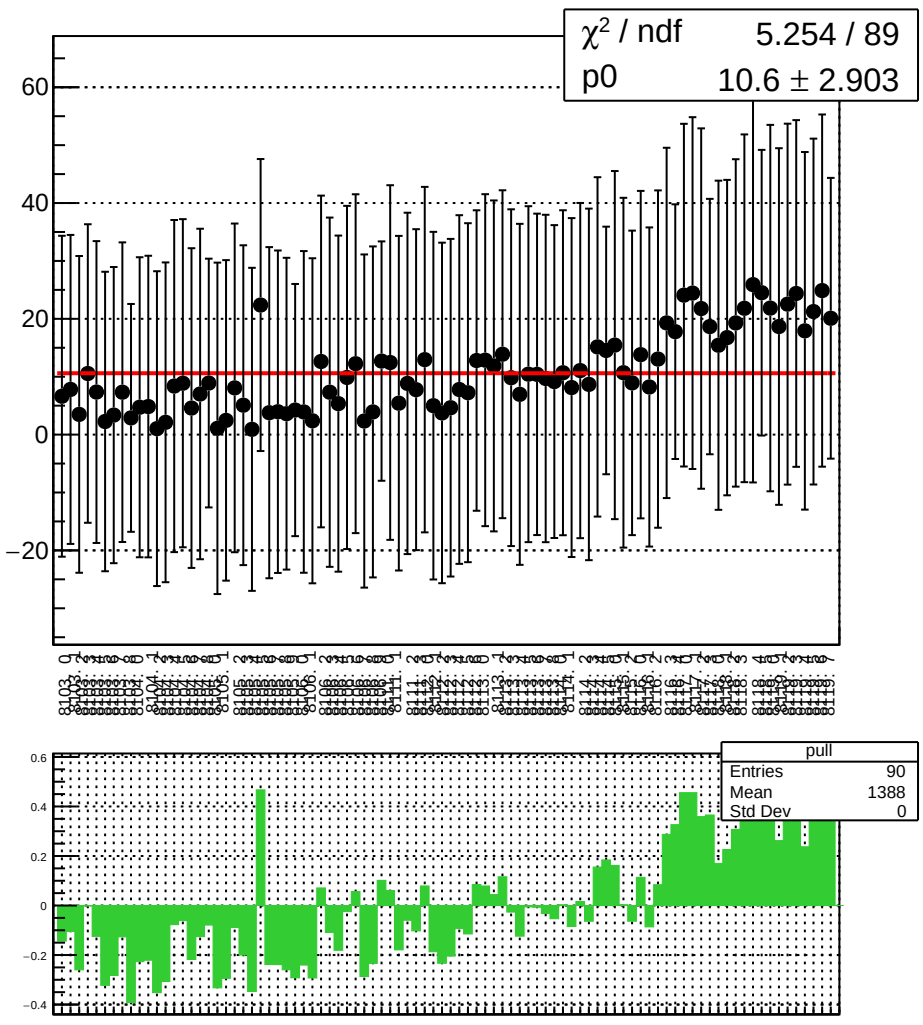

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.128 / 89
p0 14.05 ± 1.543
pull
Entries 90
Mean 4280
Std Dev 0

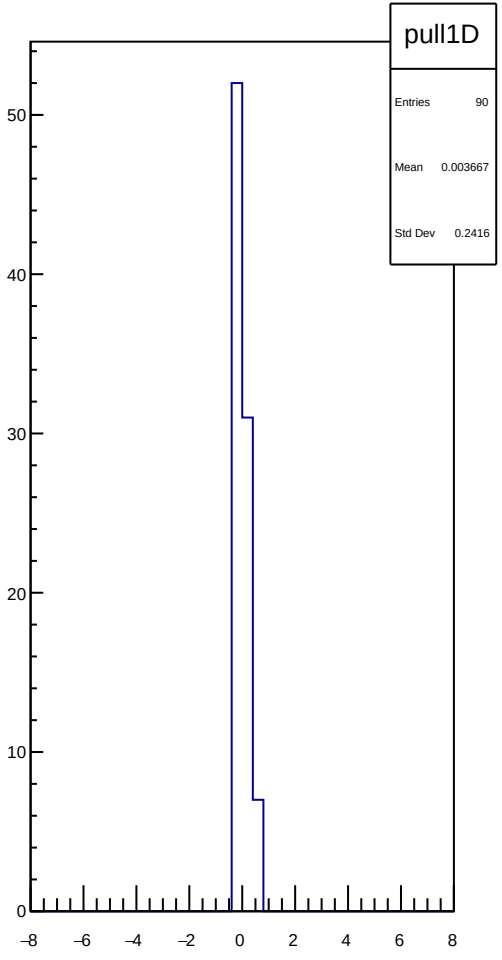

pull1D
Entries 90
Mean −0.0008338
Std Dev 0.2387

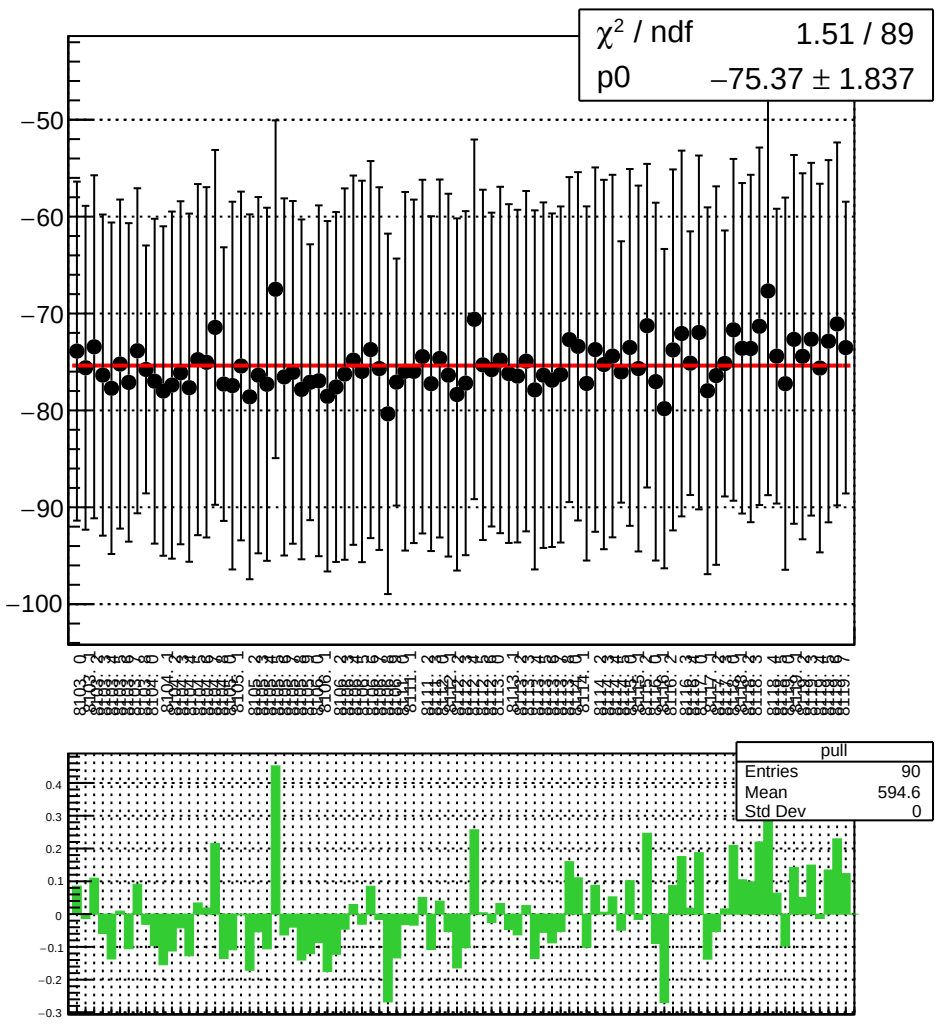

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 6.538 / 89
p0 −0.2225 ± 0.05795
pull
Entries 90
Mean −998.4
Std Dev 0
pull1D
Entries 90
Mean 0.003602
Std Dev 0.2695

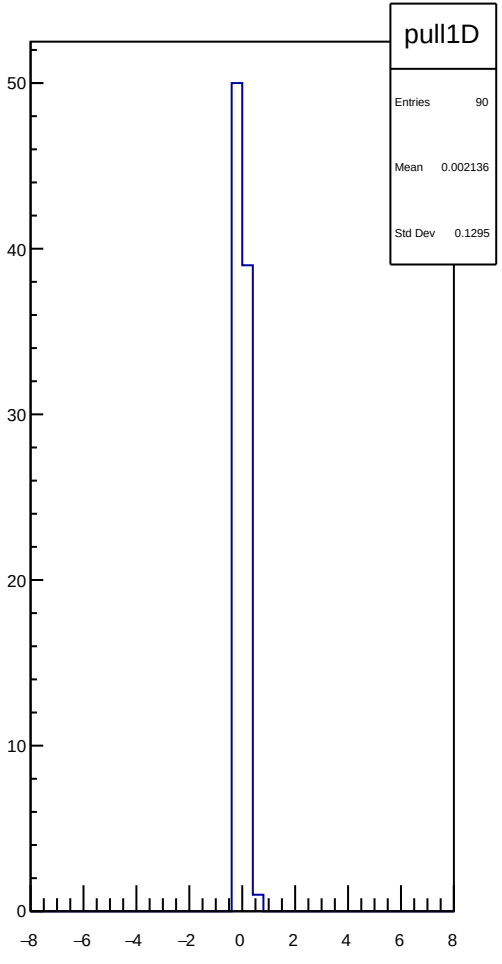

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1.501 / 89
p0 −18.58 ± 1.932
pull
Entries 90
Mean 711.2
Std Dev 0

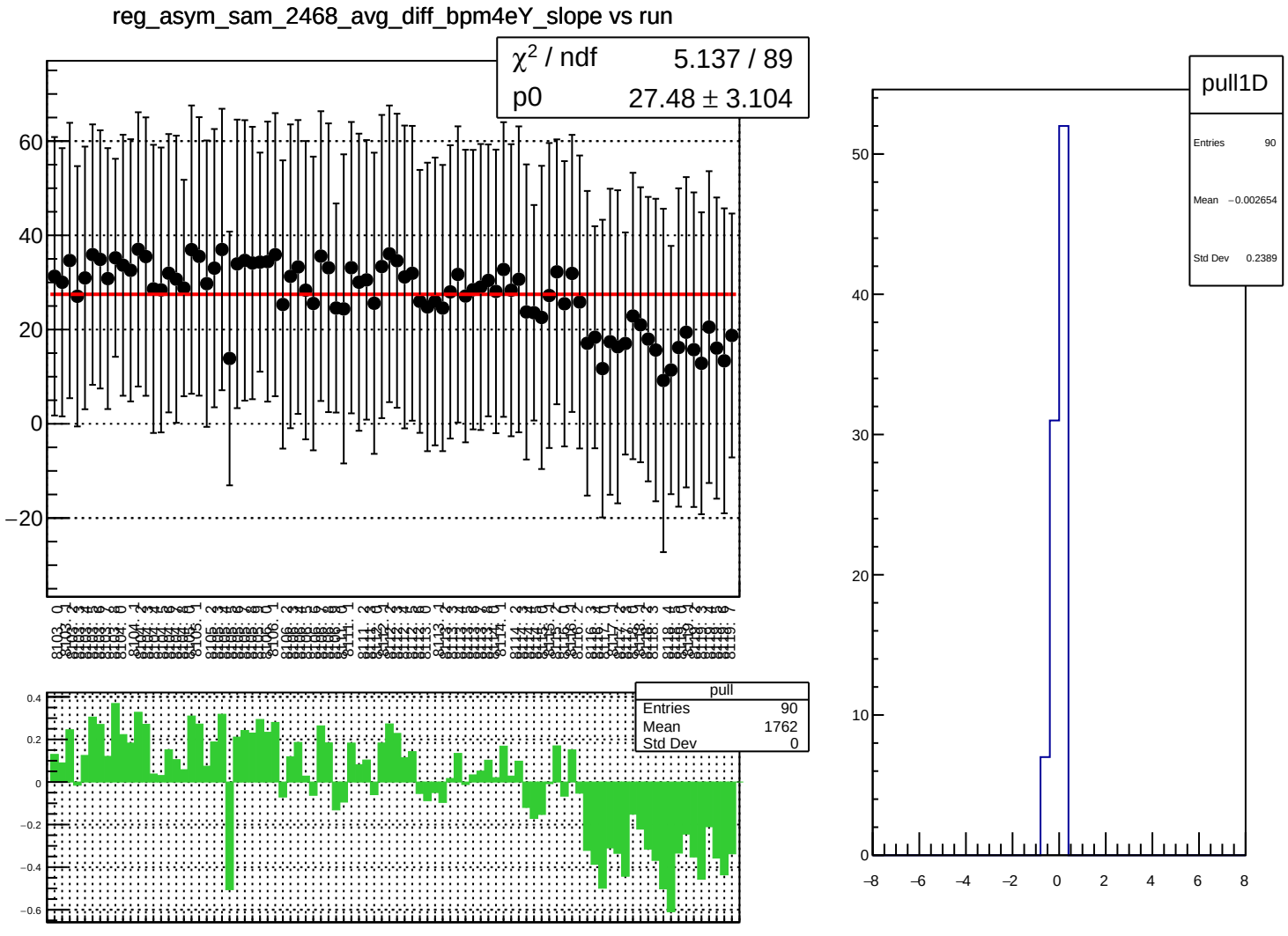

pull1D
Entries 90
Mean −0.001806
Std Dev 0.1291

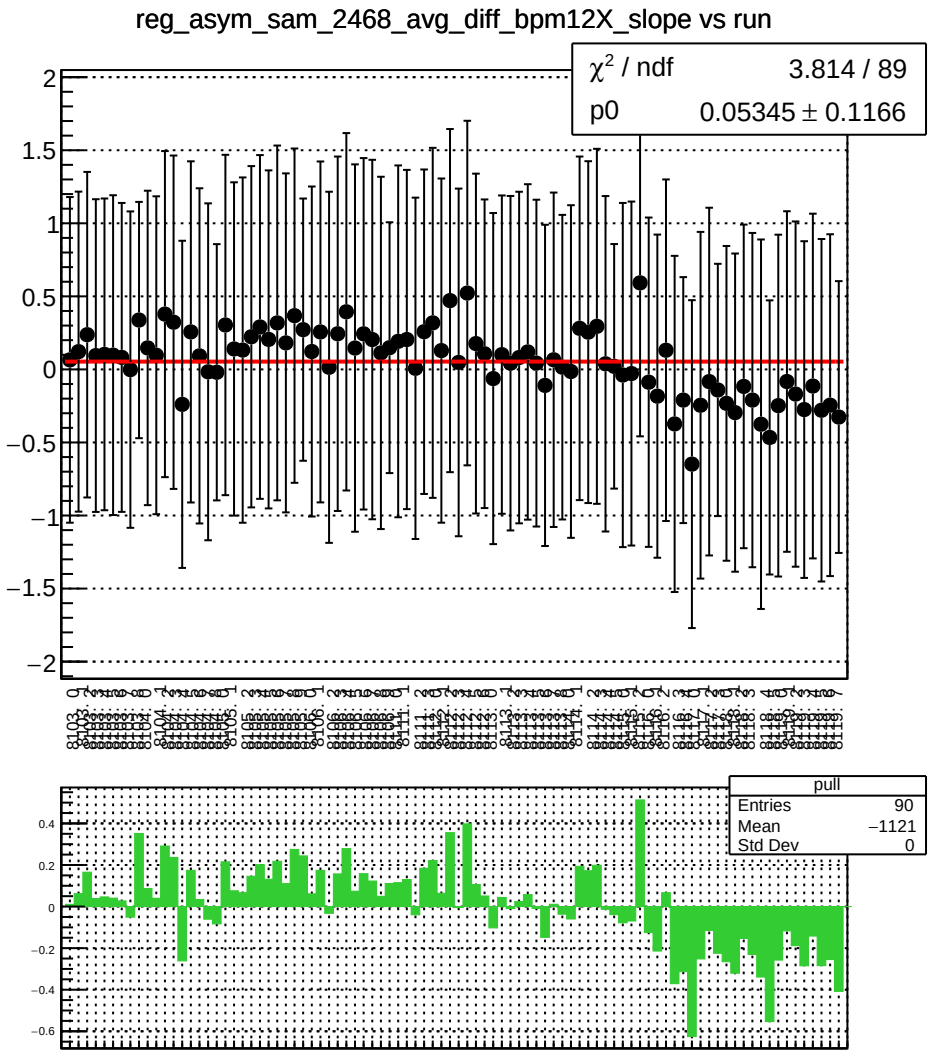

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.254 / 89
p0 10.6 ± 2.903
pull
Entries 90
Mean 1388
Std Dev 0

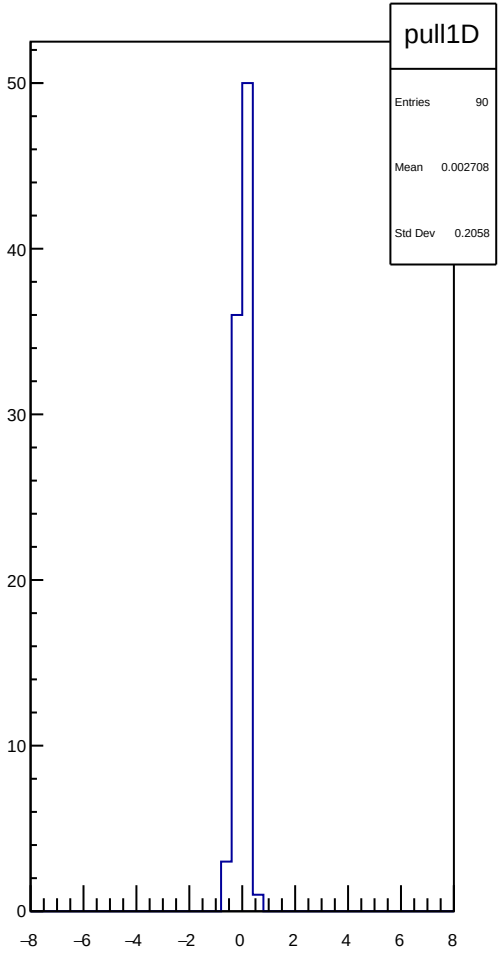

pull1D
Entries 90
Mean 0.003667
Std Dev 0.2416

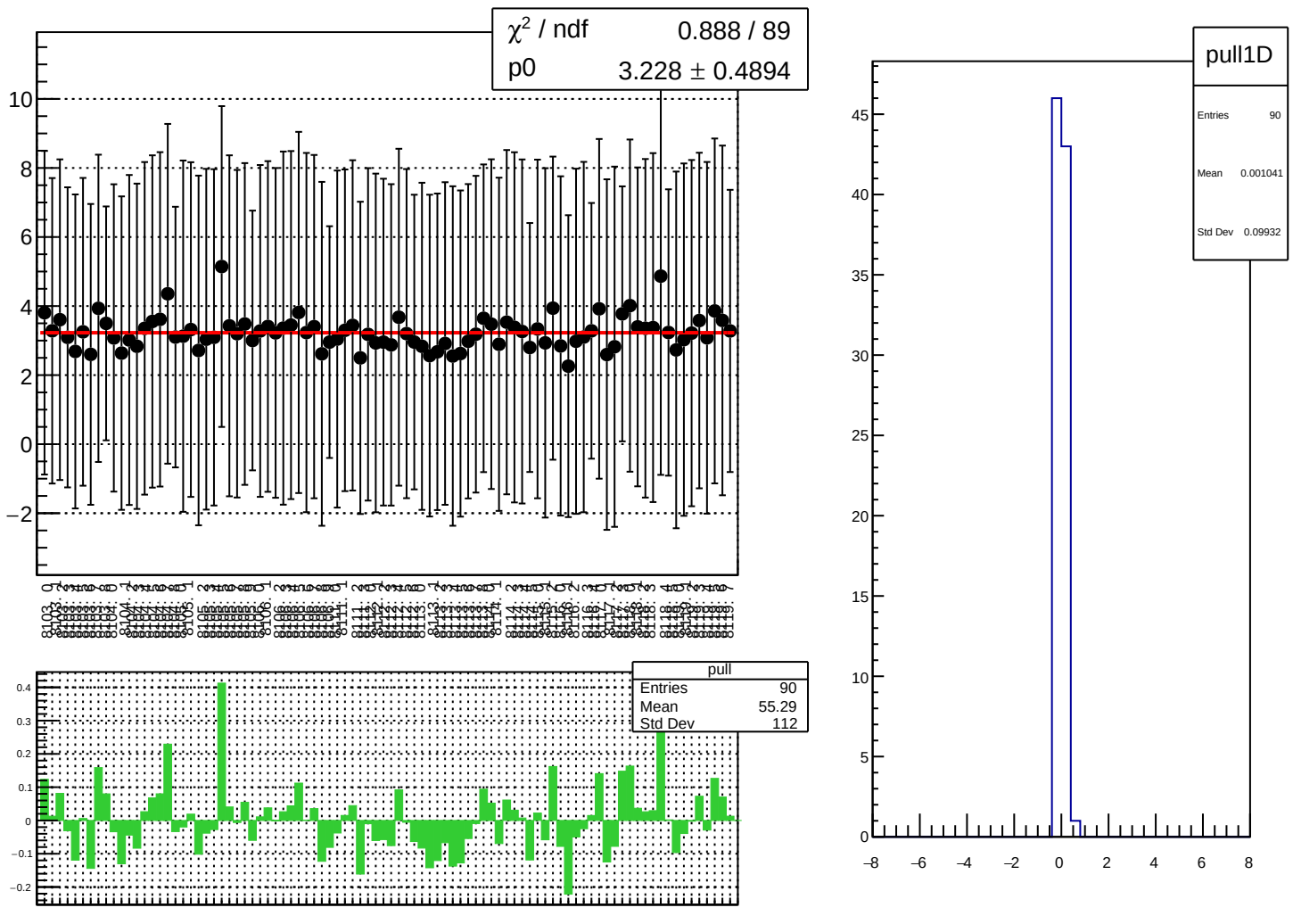

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.51 / 89
p0 −75.37 ± 1.837
pull
Entries 90
Mean 594.6
Std Dev 0

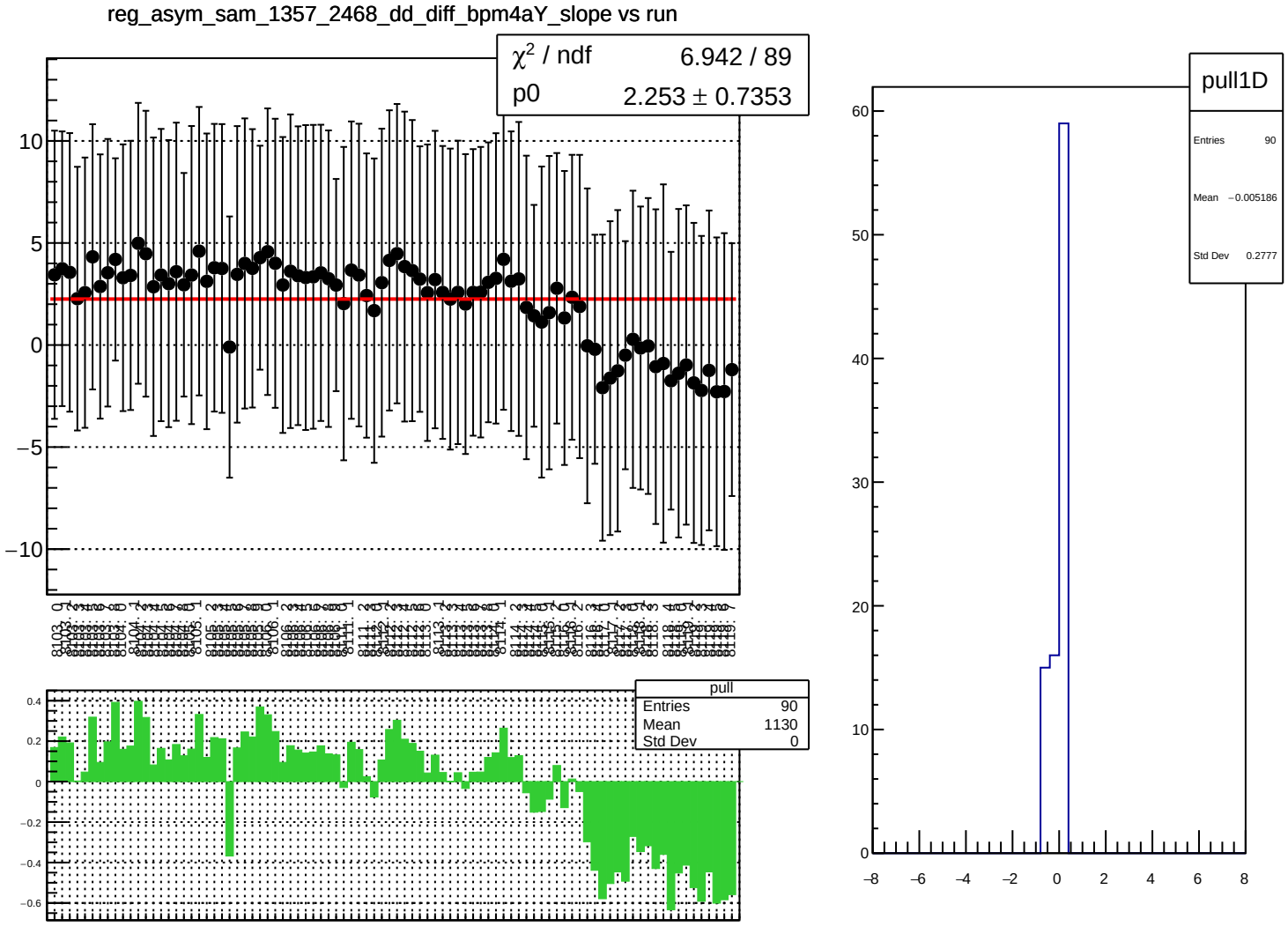

pull1D
Entries 90
Mean 0.002136
Std Dev 0.1295

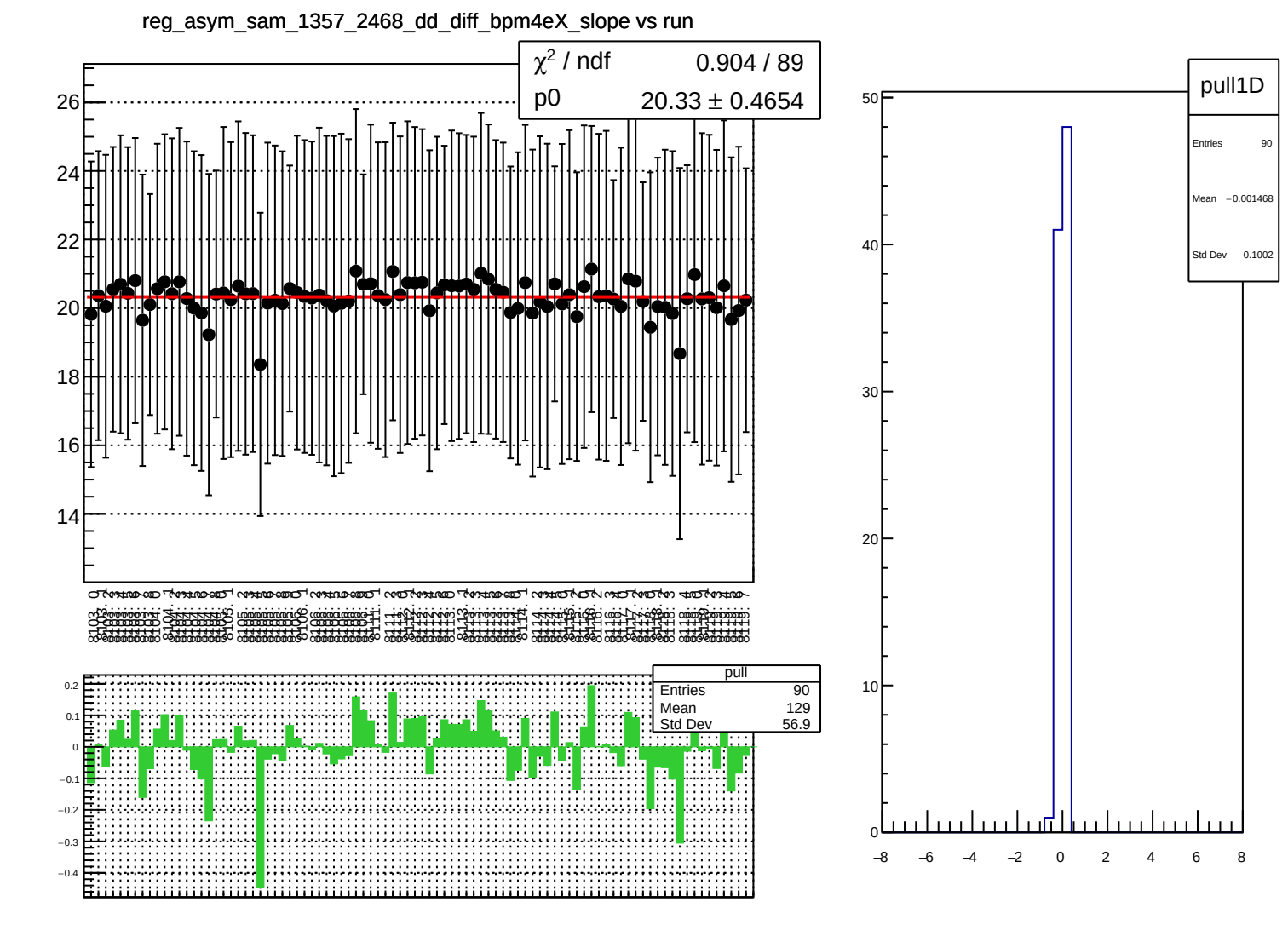

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.137 / 89
p0 27.48 ± 3.104
60
40
20
0
−20
pull
Entries 90
Mean 1762
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 90
Mean −0.002654
Std Dev 0.2389
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

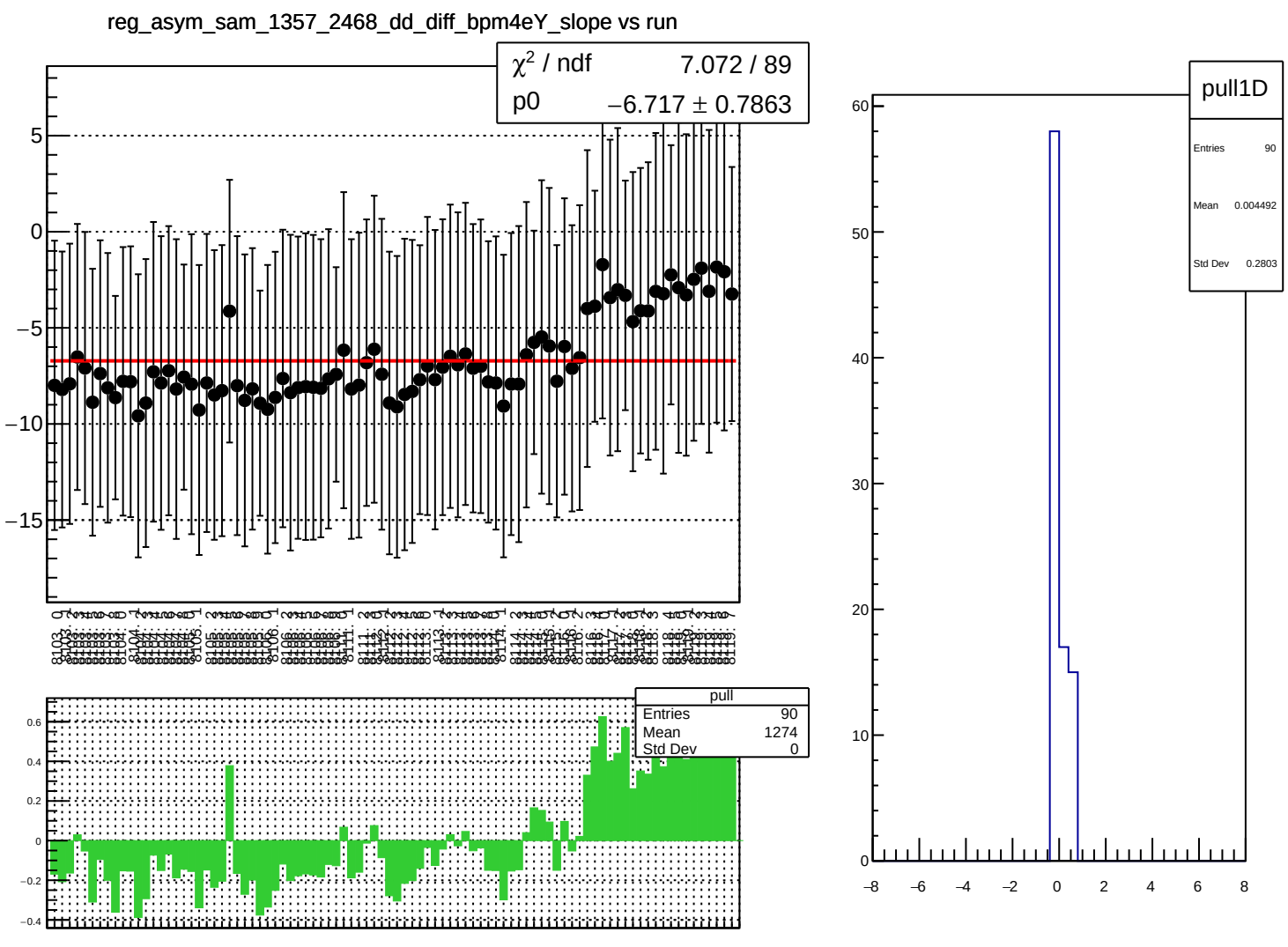

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.814 / 89
p0 0.05345 ± 0.1166
pull
Entries 90
Mean −1121
Std Dev 0

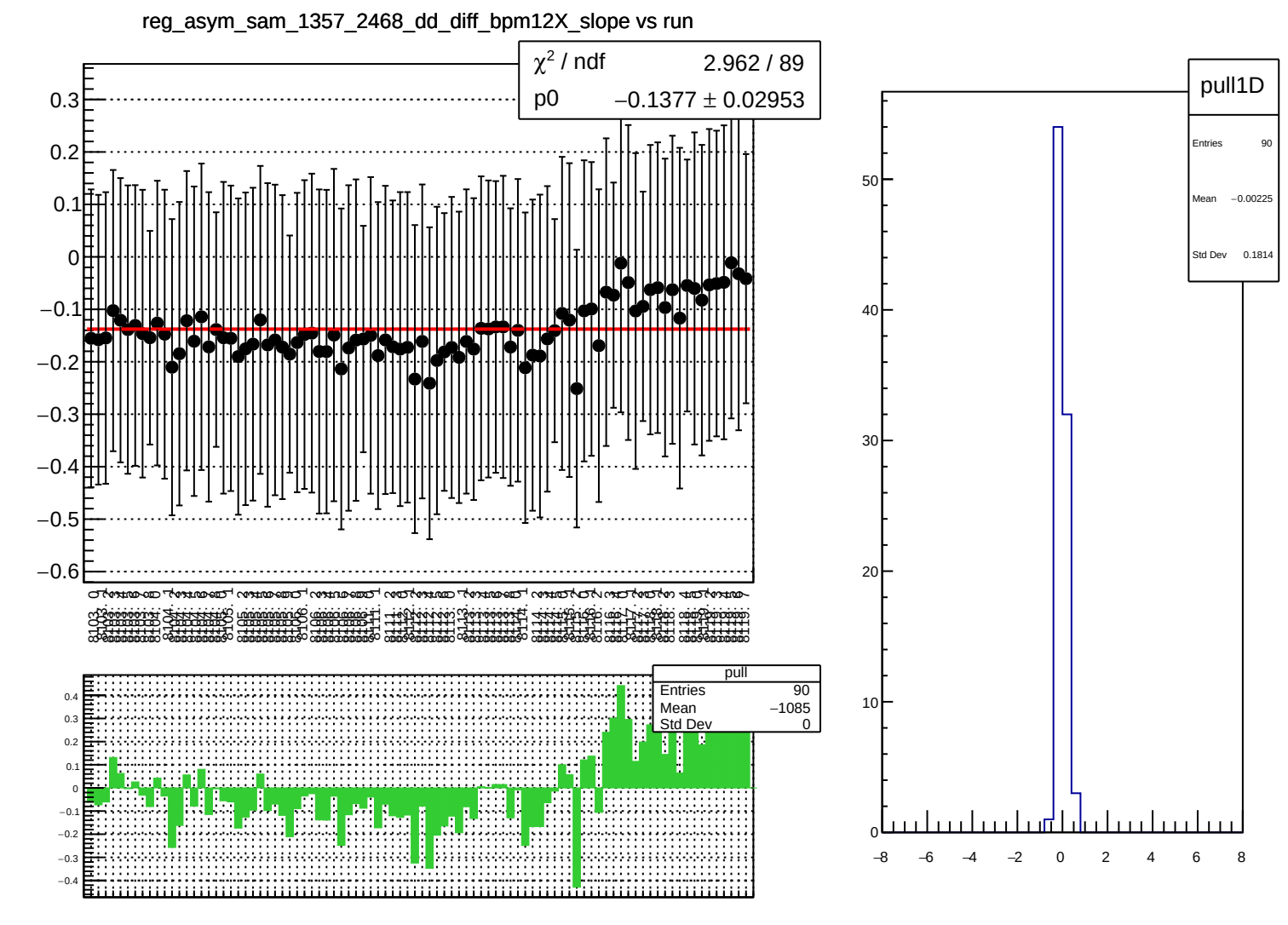

pull1D
Entries 90
Mean 0.002708
Std Dev 0.2058

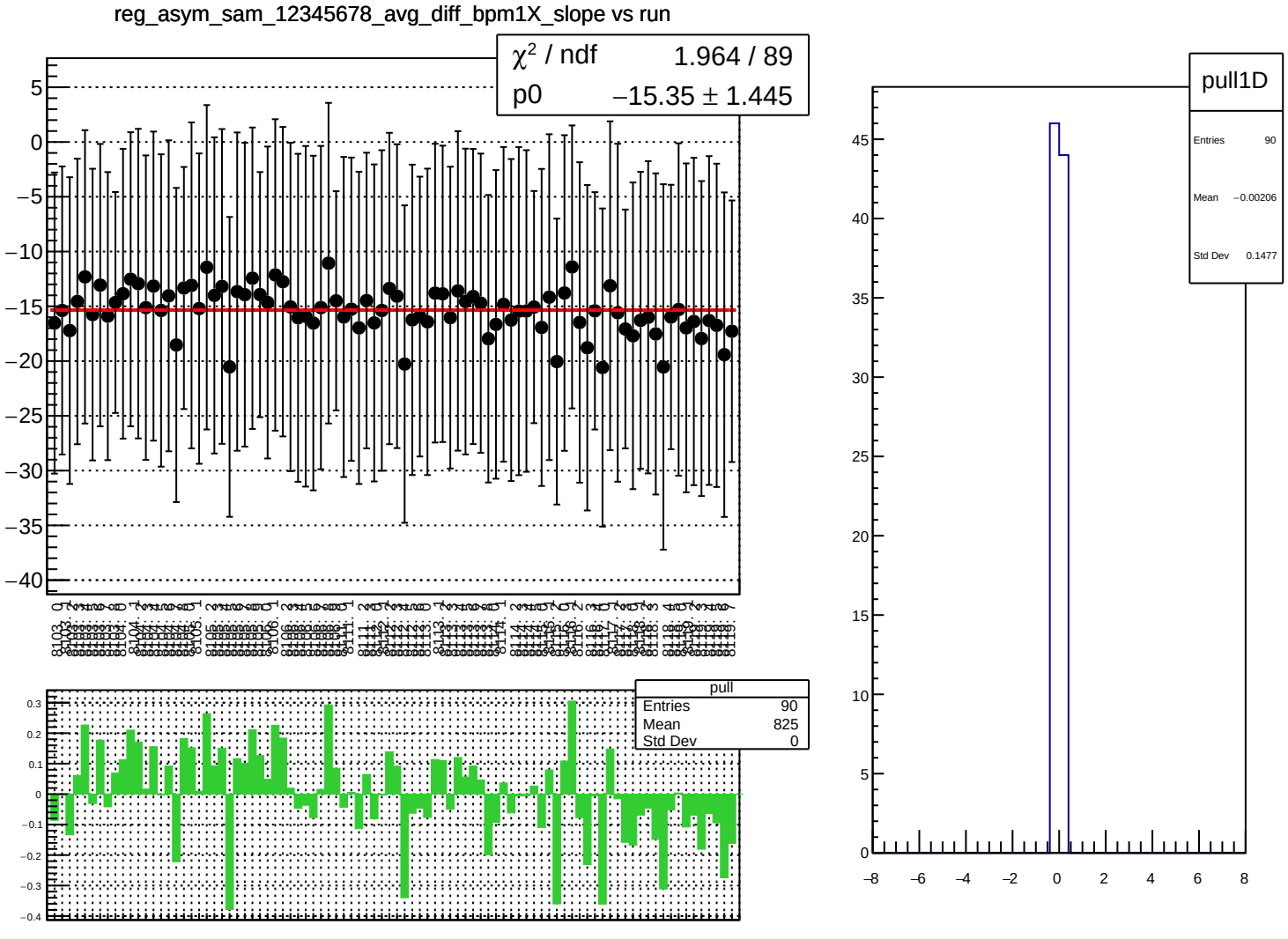

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.888 / 89
p0 3.228 ± 0.4894
pull
Entries 90
Mean 55.29
Std Dev 112
pull1D
Entries 90
Mean 0.001041
Std Dev 0.09932

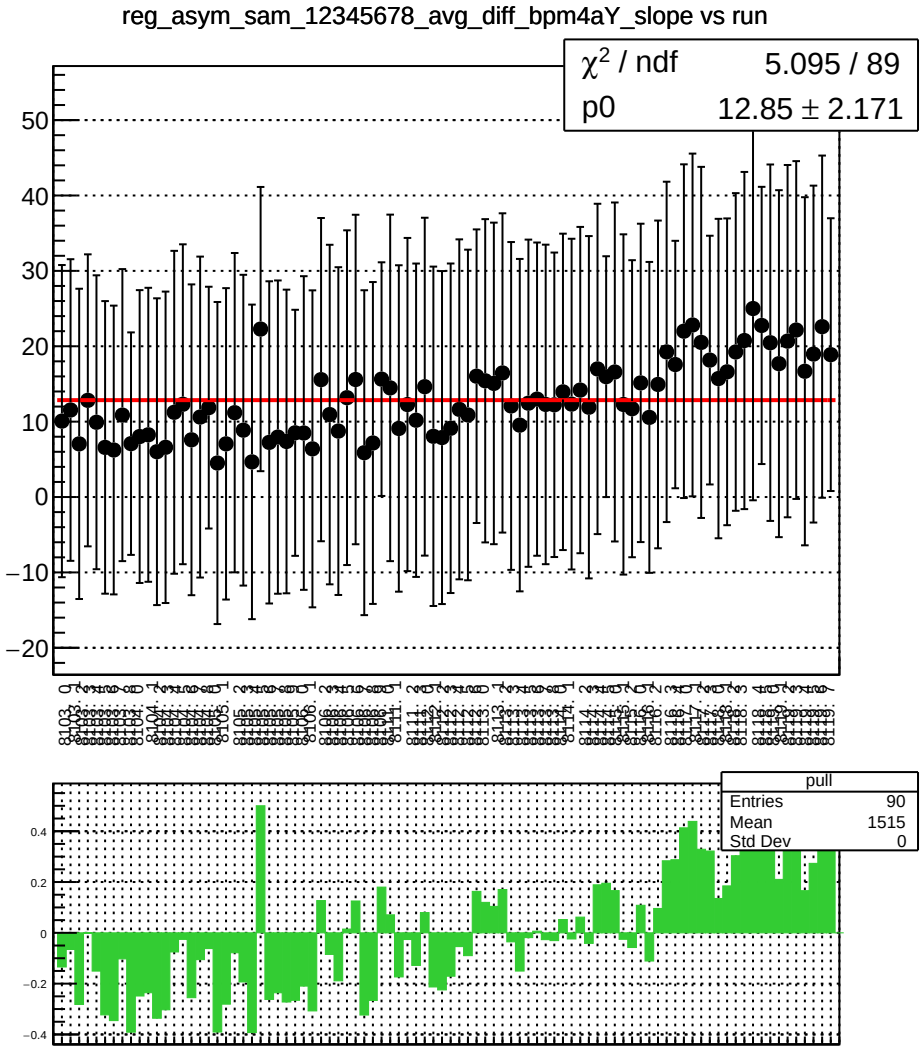

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.942 / 89
p0 2.253 ± 0.7353
pull
Entries 90
Mean 1130
Std Dev 0
pull1D
Entries 90
Mean −0.005186
Std Dev 0.2777

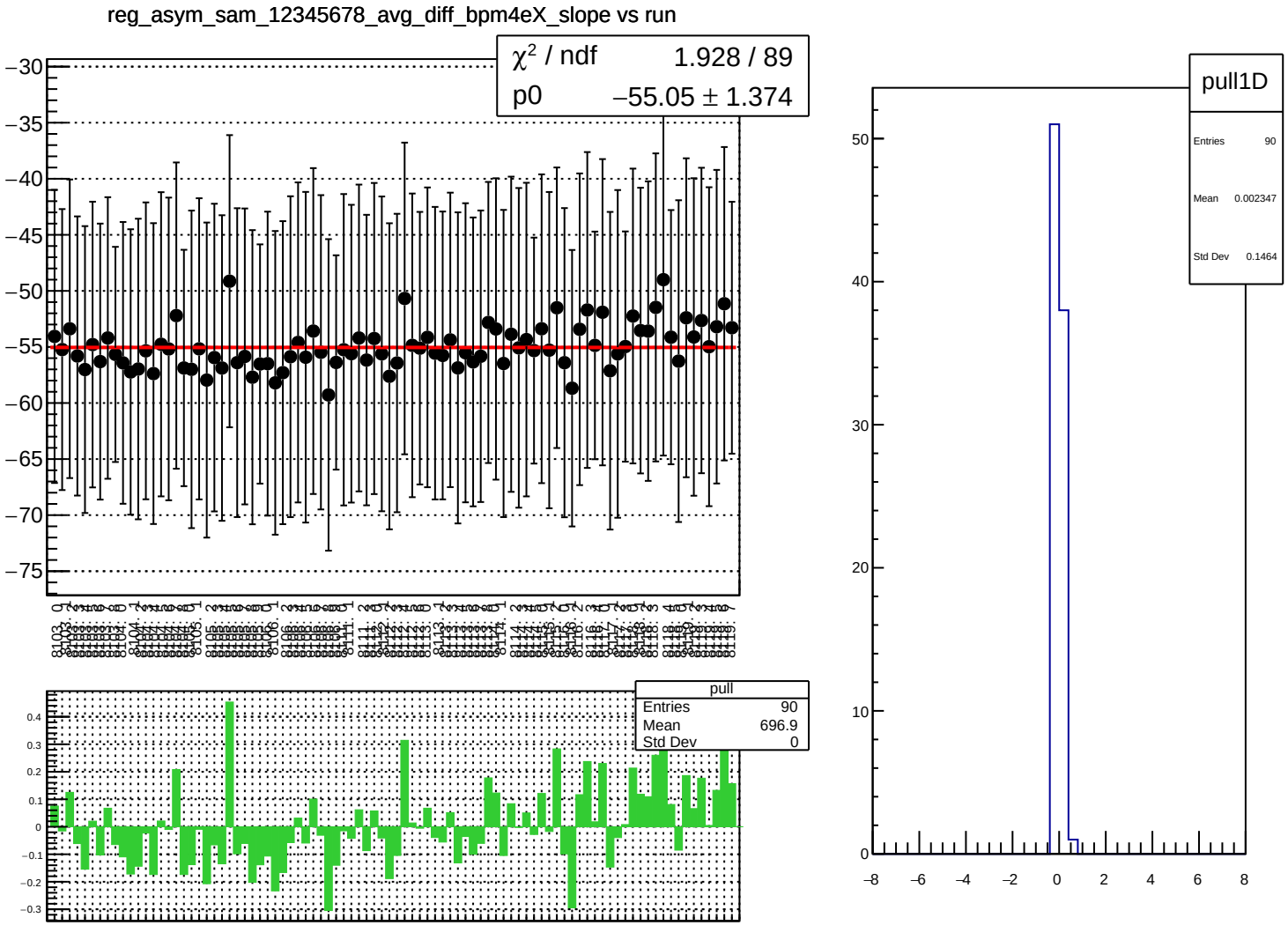

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.904 / 89
p0 20.33 ± 0.4654
pull
Entries 90
Mean 129
Std Dev 56.9
pull1D
Entries 90
Mean −0.001468
Std Dev 0.1002

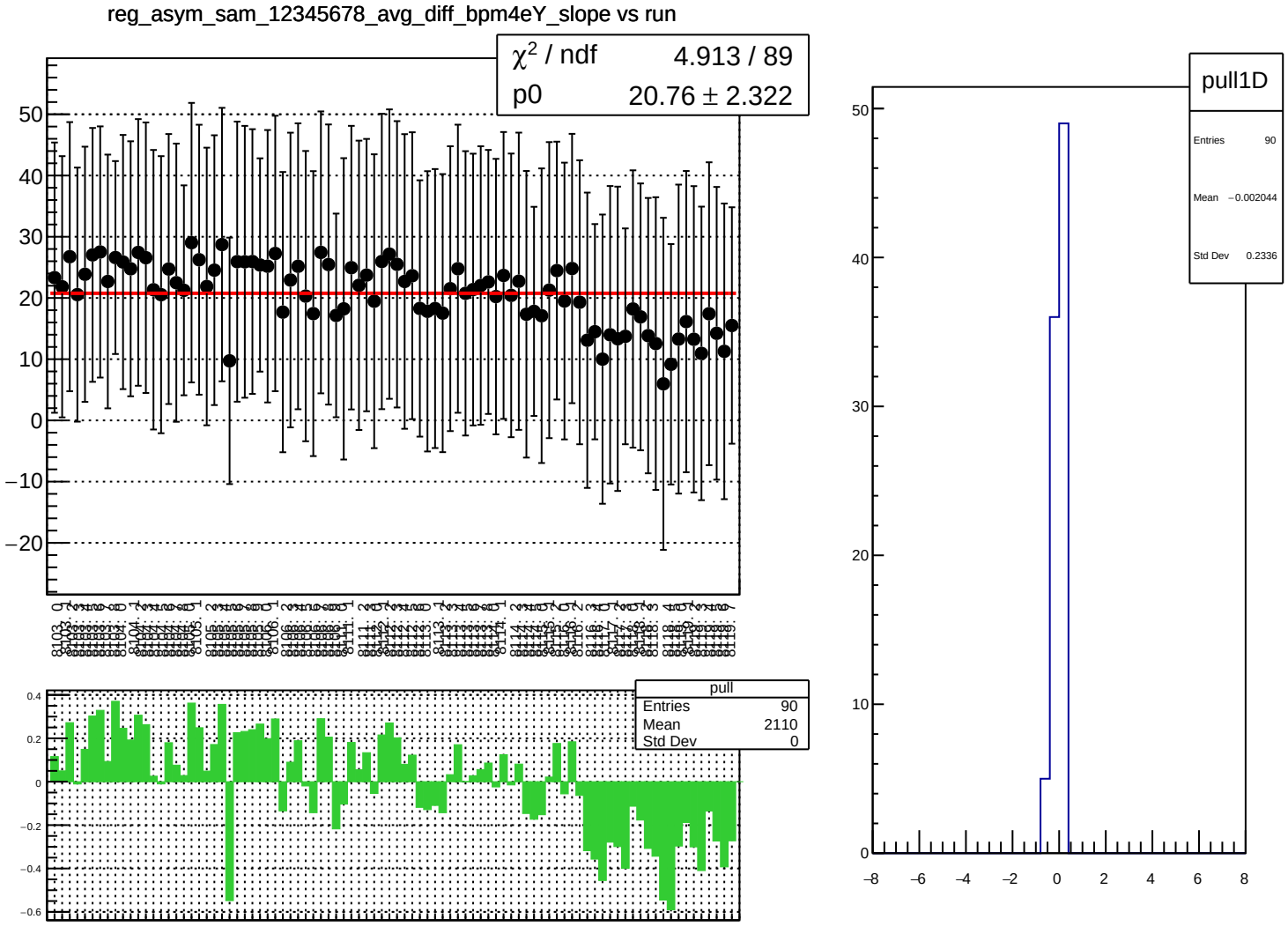

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.072 / 89
p0 −6.717 ± 0.7863
pull
Entries 90
Mean 1274
Std Dev 0
pull1D
Entries 90
Mean 0.004492
Std Dev 0.2803

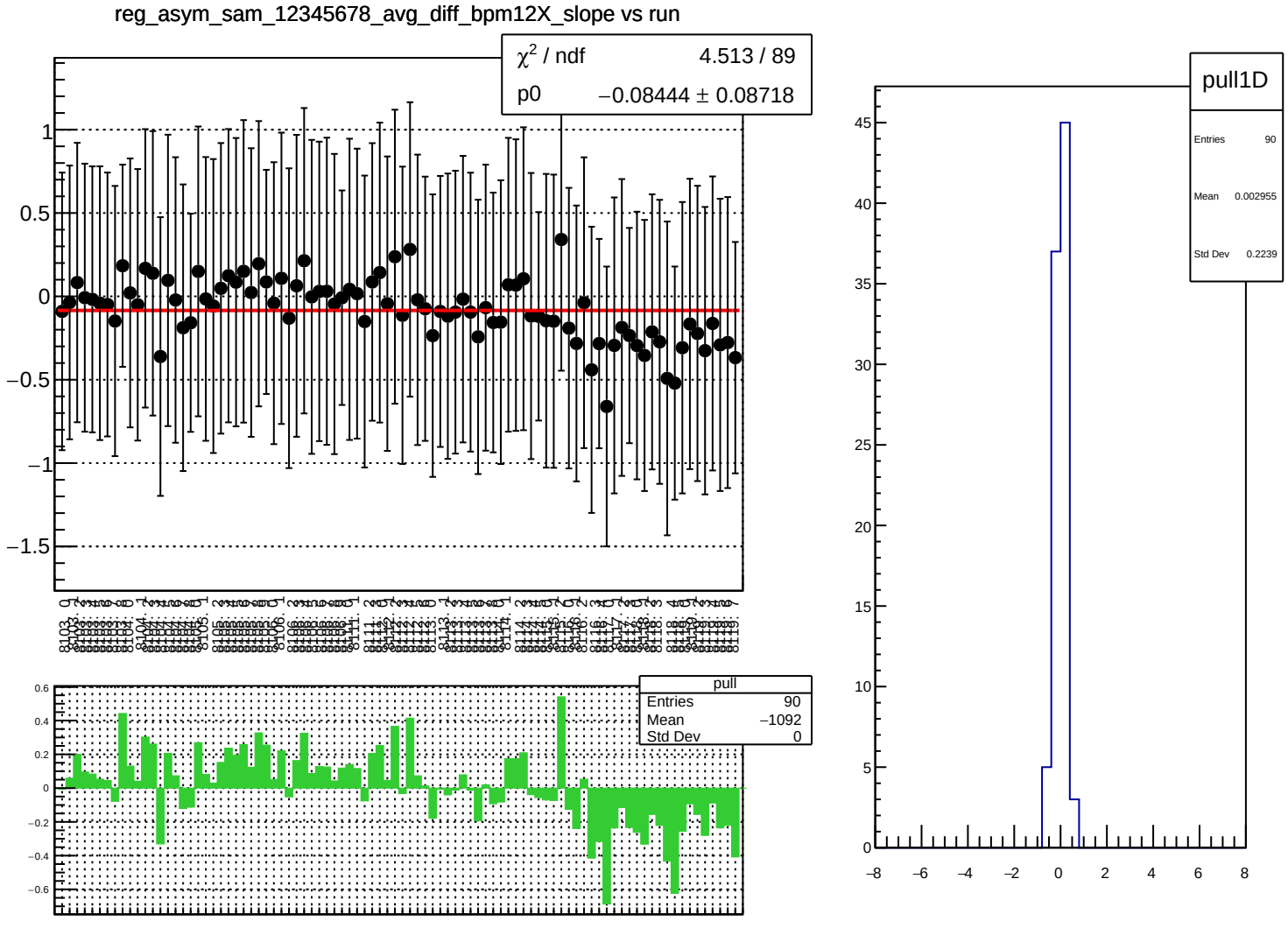

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.962 / 89
p0 −0.1377 ± 0.02953
pull
Entries 90
Mean −1085
Std Dev 0
pull1D
Entries 90
Mean −0.00225
Std Dev 0.1814

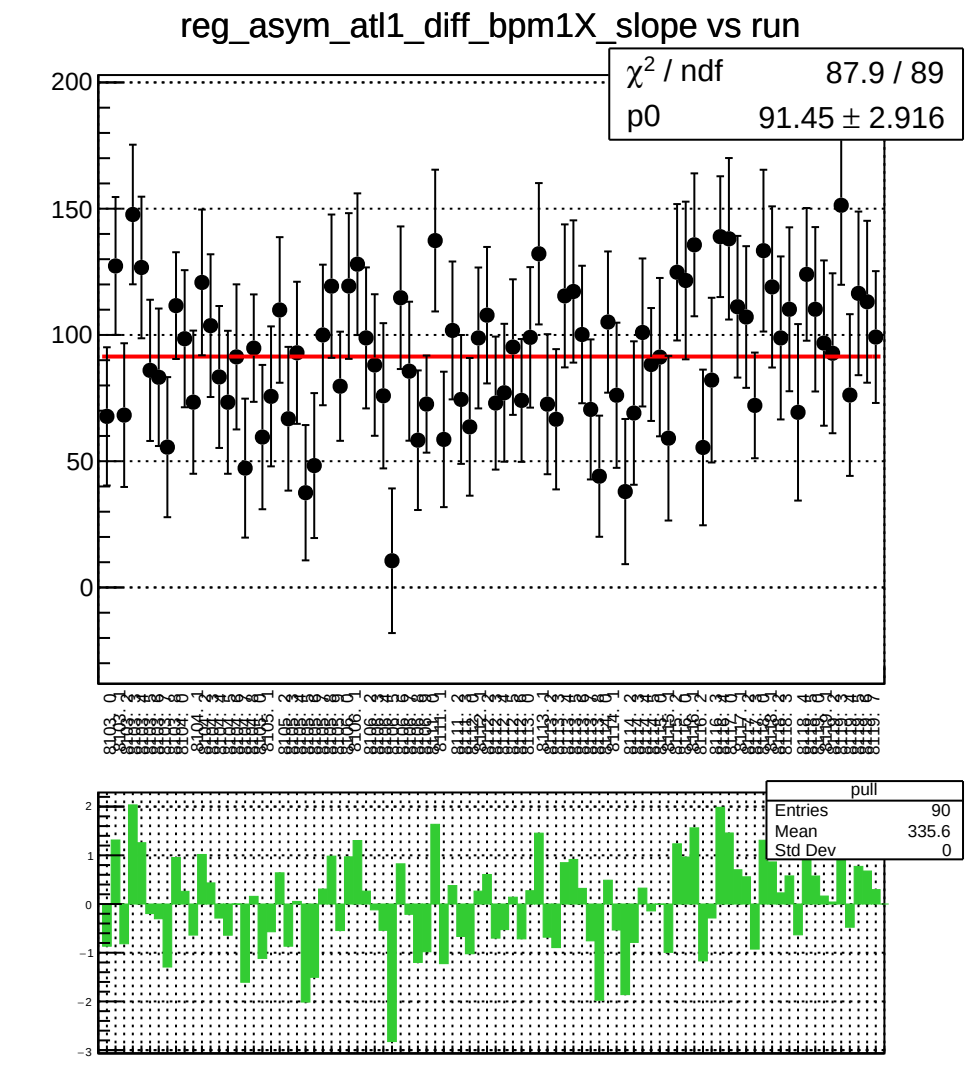

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1.964 / 89
p0 −15.35 ± 1.445
pull
Entries 90
Mean 825
Std Dev 0
pull1D
Entries 90
Mean −0.00206
Std Dev 0.1477

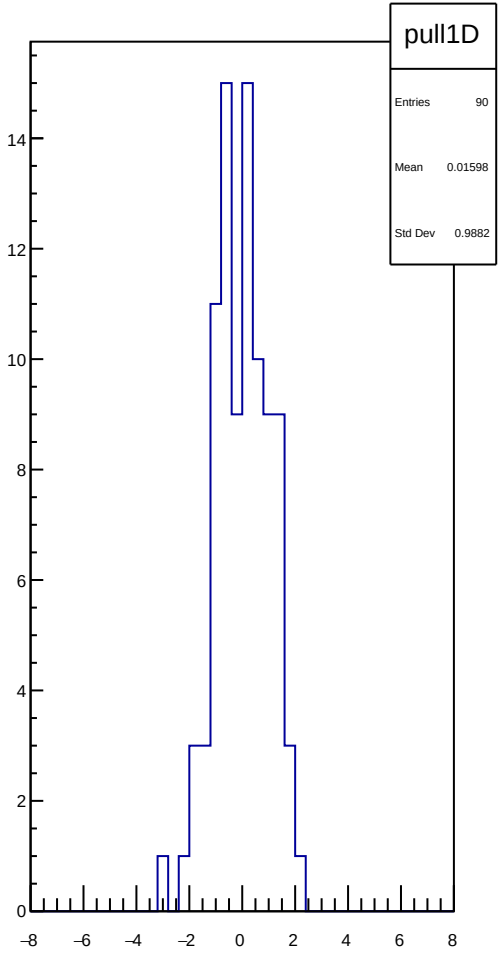

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.095 / 89
p0 12.85 ± 2.171
pull
Entries 90
Mean 1515
Std Dev 0
pull1D
Entries 90
Mean 0.003183
Std Dev 0.2379

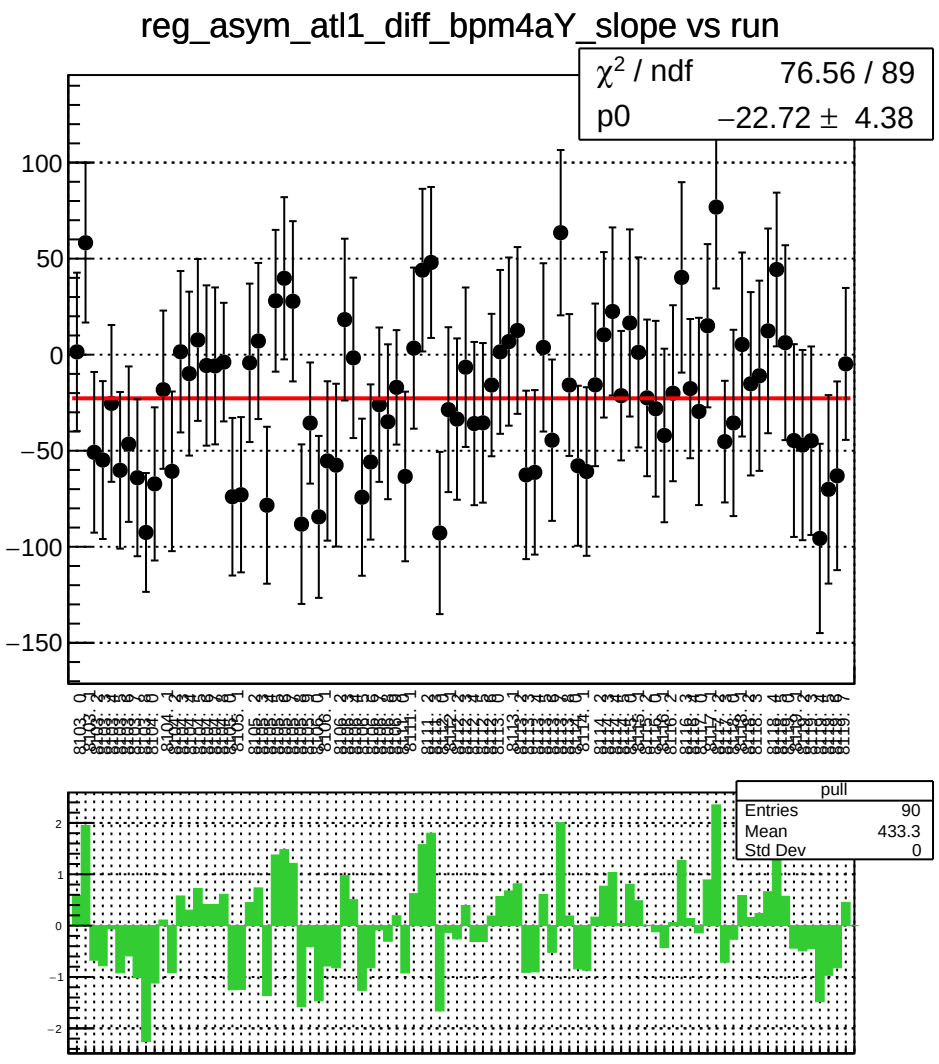

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.928 / 89
p0 −55.05 ± 1.374
pull
Entries 90
Mean 696.9
Std Dev 0
pull1D
Entries 90
Mean 0.002347
Std Dev 0.1464

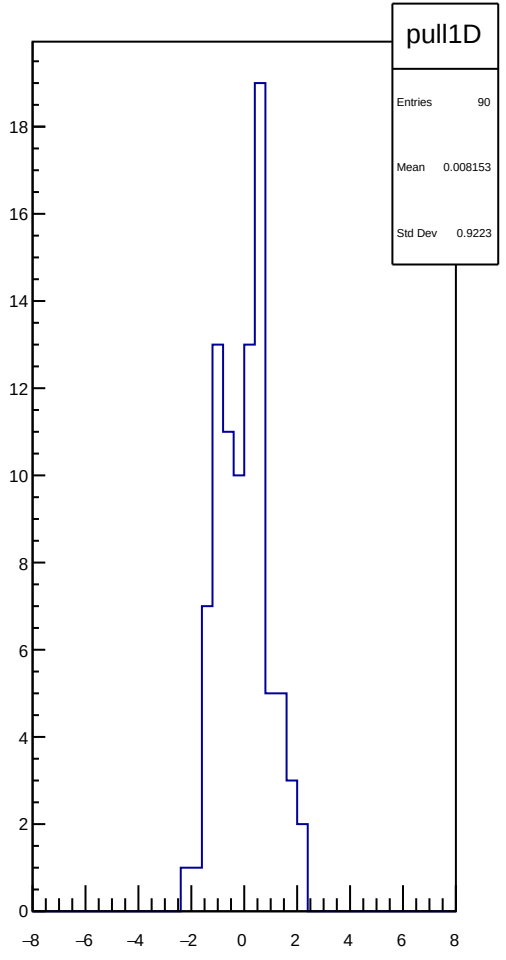

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.913 / 89
p0 20.76 ± 2.322
pull
Entries 90
Mean 2110
Std Dev 0
pull1D
Entries 90
Mean −0.002044
Std Dev 0.2336

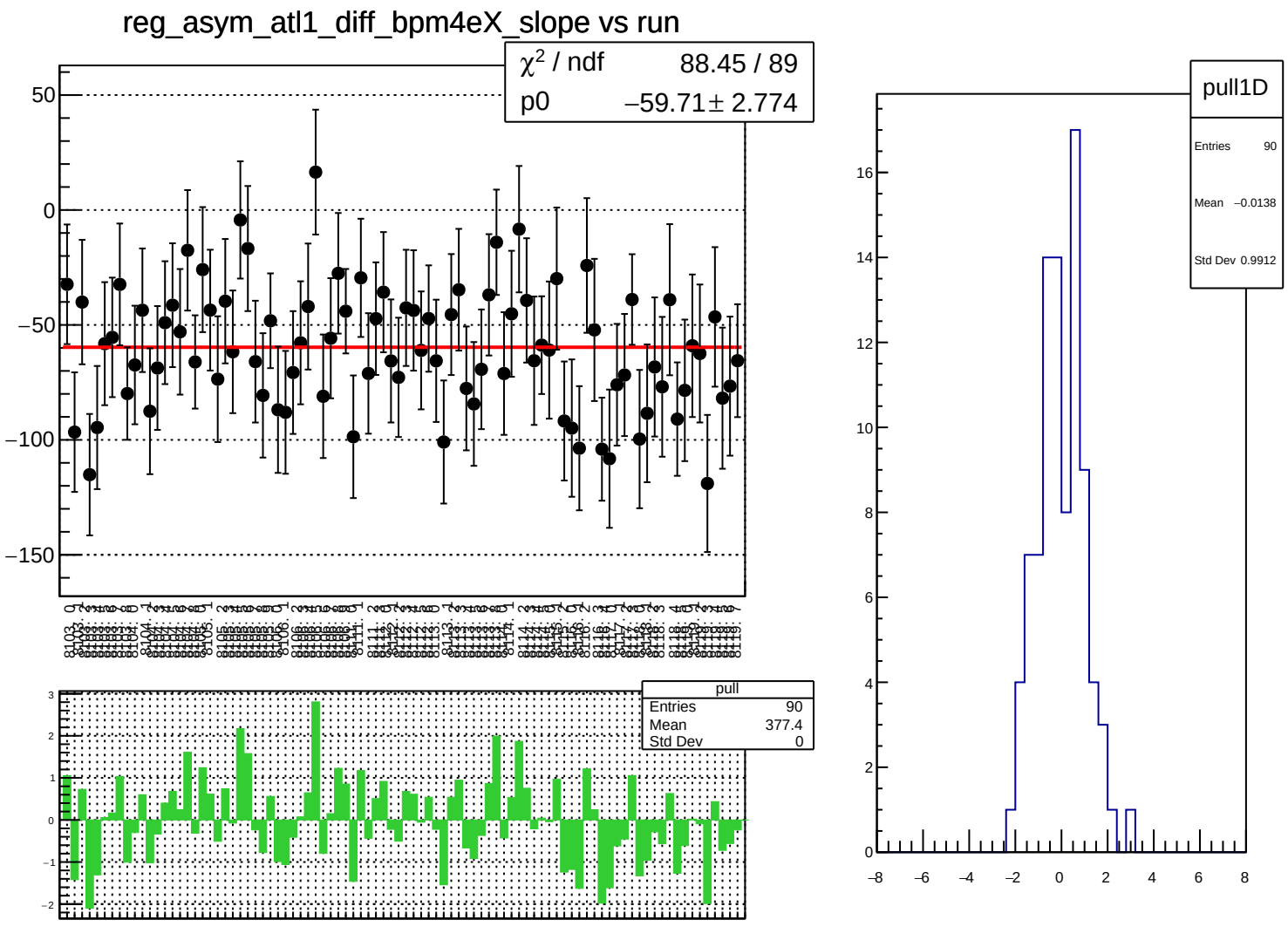

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 4.513 / 89
p0 −0.08444 ± 0.08718
pull
Entries 90
Mean −1092
Std Dev 0
pull1D
Entries 90
Mean 0.002955
Std Dev 0.2239

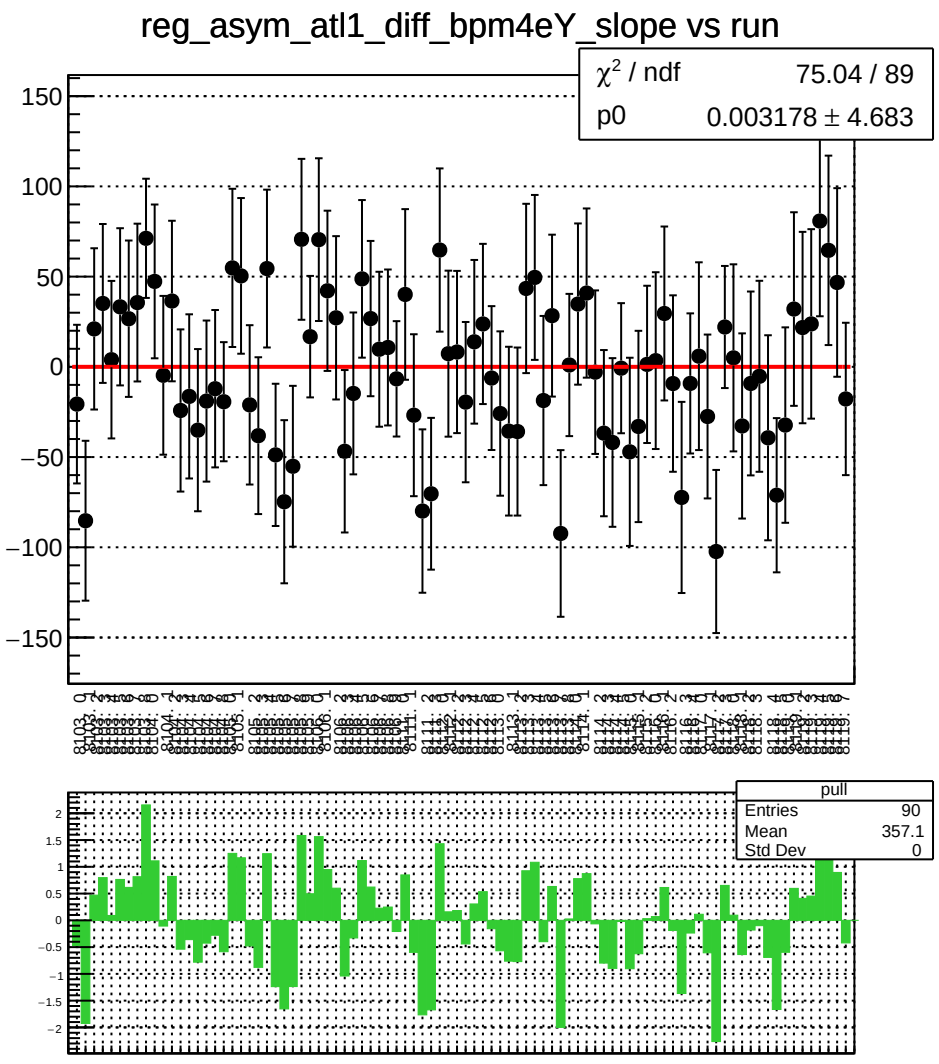

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 87.9 / 89
p0 91.45 ± 2.916
200
150
100
50
0
pull
Entries 90
Mean 335.6
Std Dev 0
2
1
0
−1
−2
−3

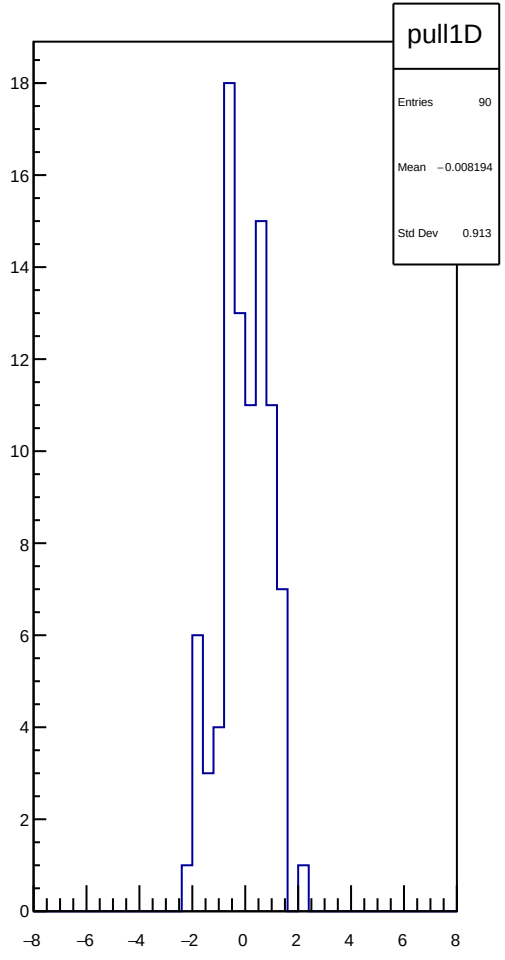

pull1D
Entries 90
Mean 0.01598
Std Dev 0.9882
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

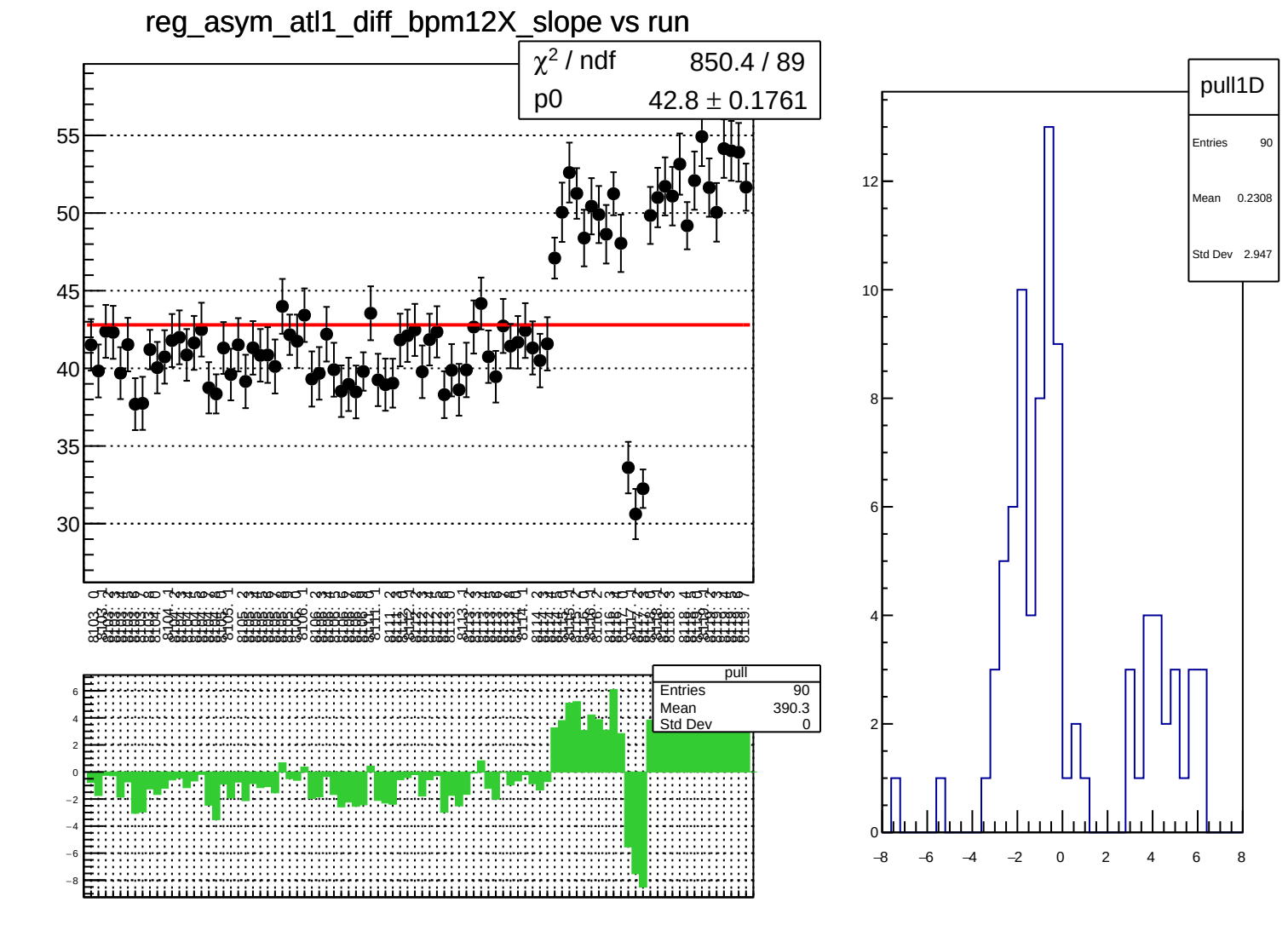

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 76.56 / 89
p0 −22.72 ± 4.38
100
50
0
−50
−100
−150
pull
Entries 90
Mean 433.3
Std Dev 0
2
1
0
−1
−2

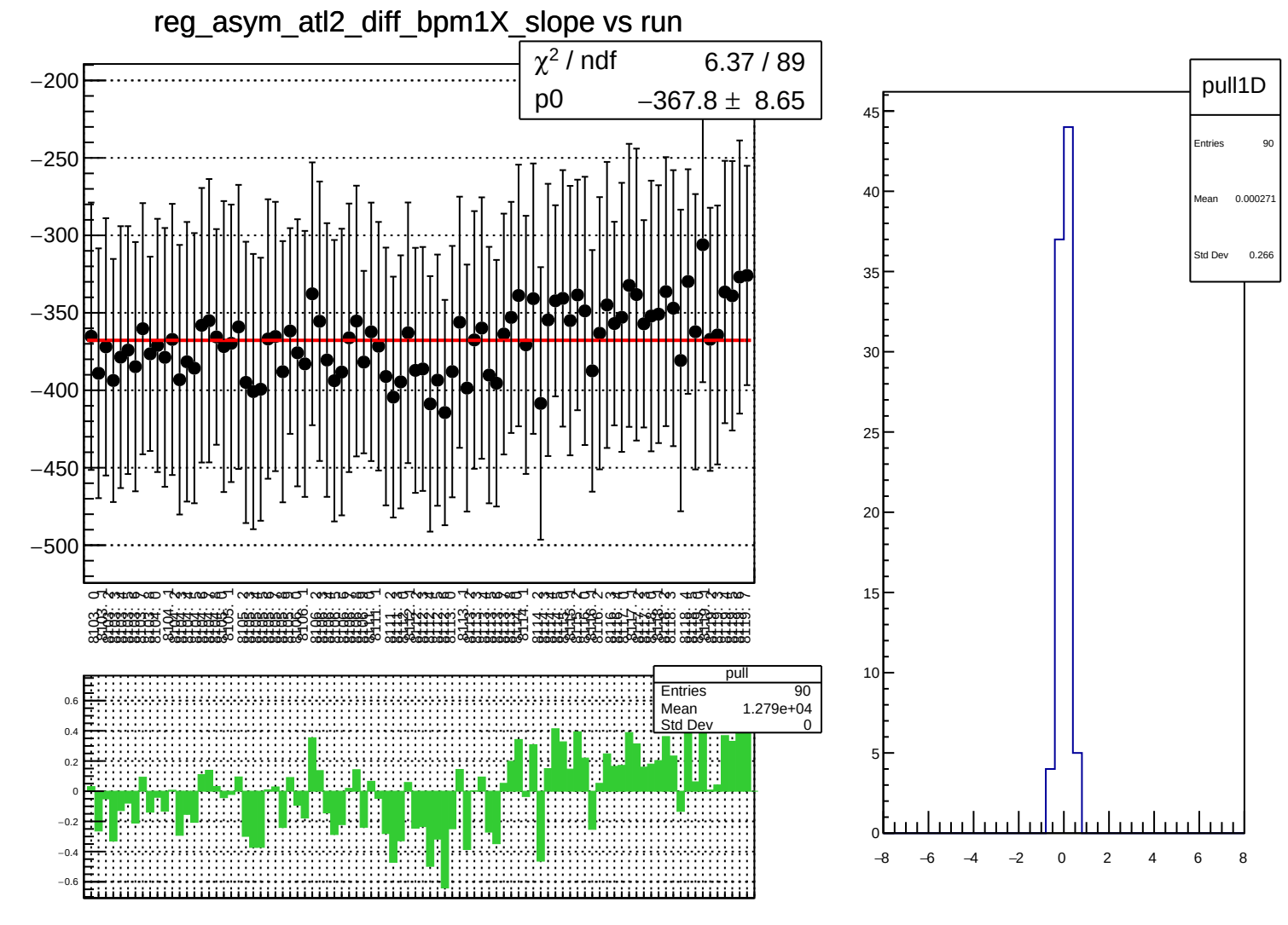

pull1D
Entries 90
Mean 0.008153
Std Dev 0.9223
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

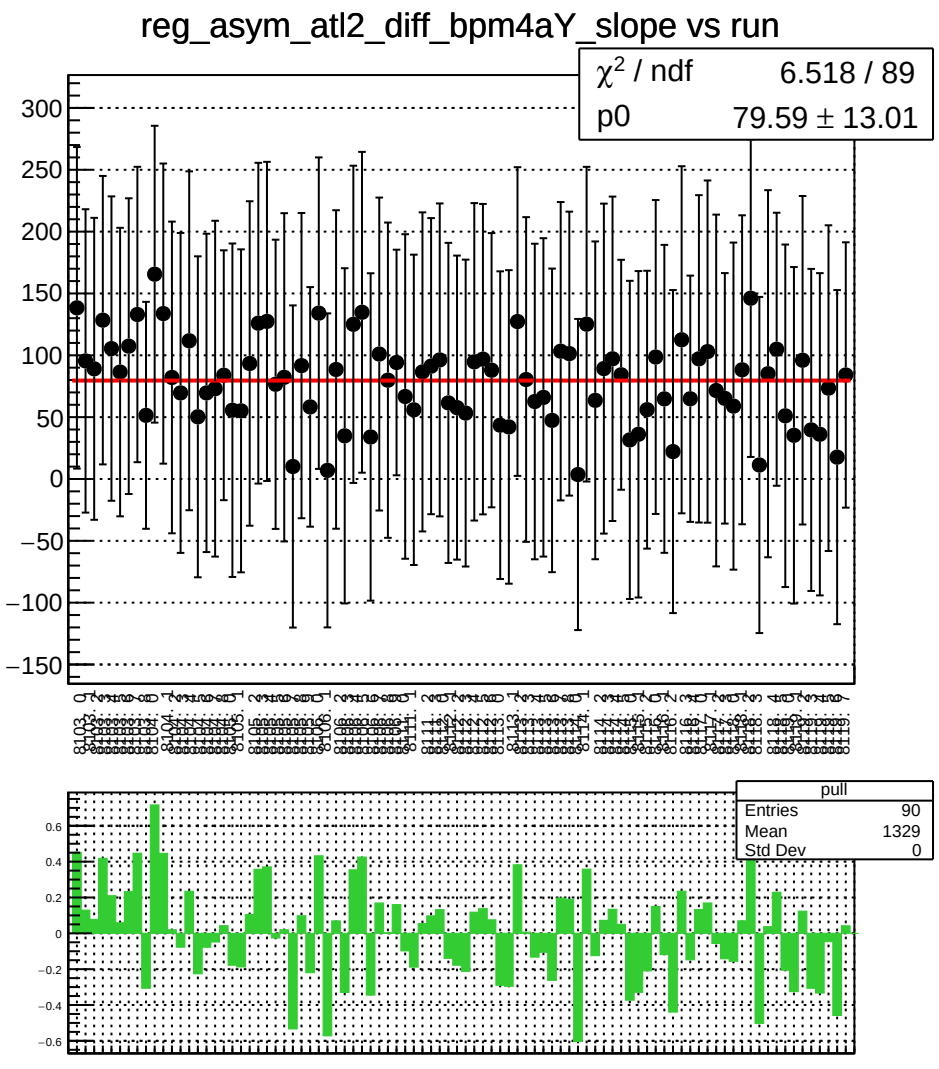

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 88.45 / 89
p0 −59.71 ± 2.774
pull
Entries 90
Mean 377.4
Std Dev 0
pull1D
Entries 90
Mean −0.0138
Std Dev 0.9912

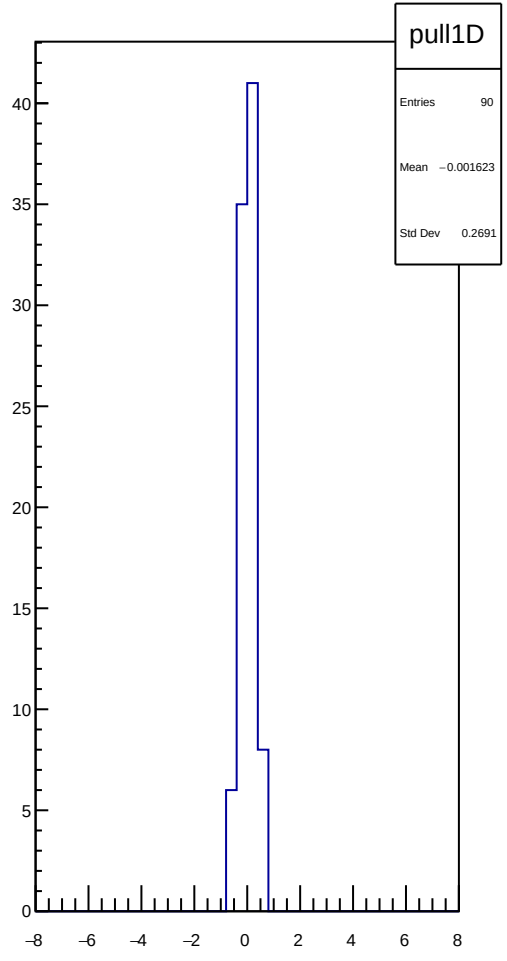

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 75.04 / 89
p0 0.003178 ± 4.683
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 357.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

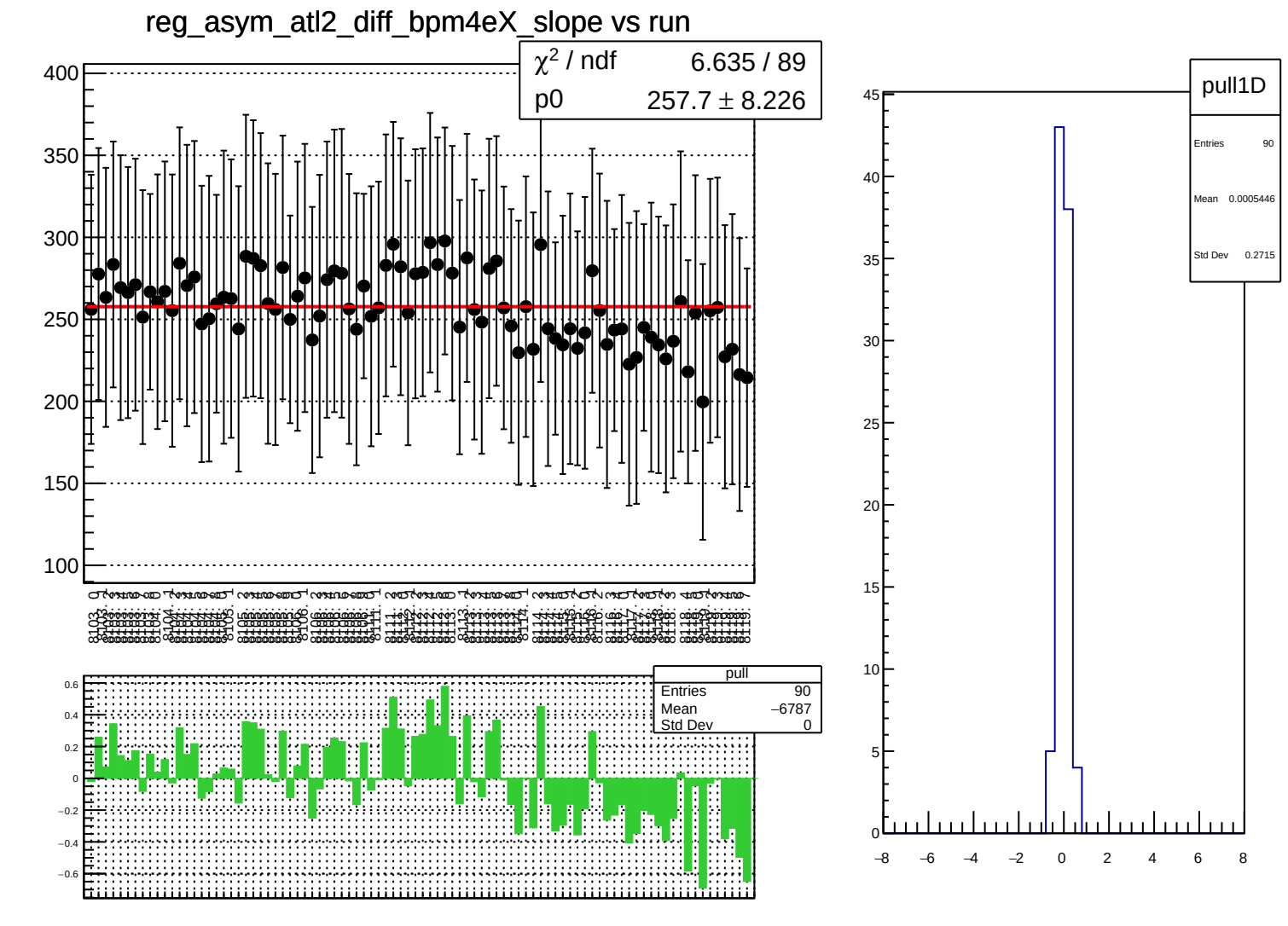

pull1D
Entries 90
Mean −0.008194
Std Dev 0.913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

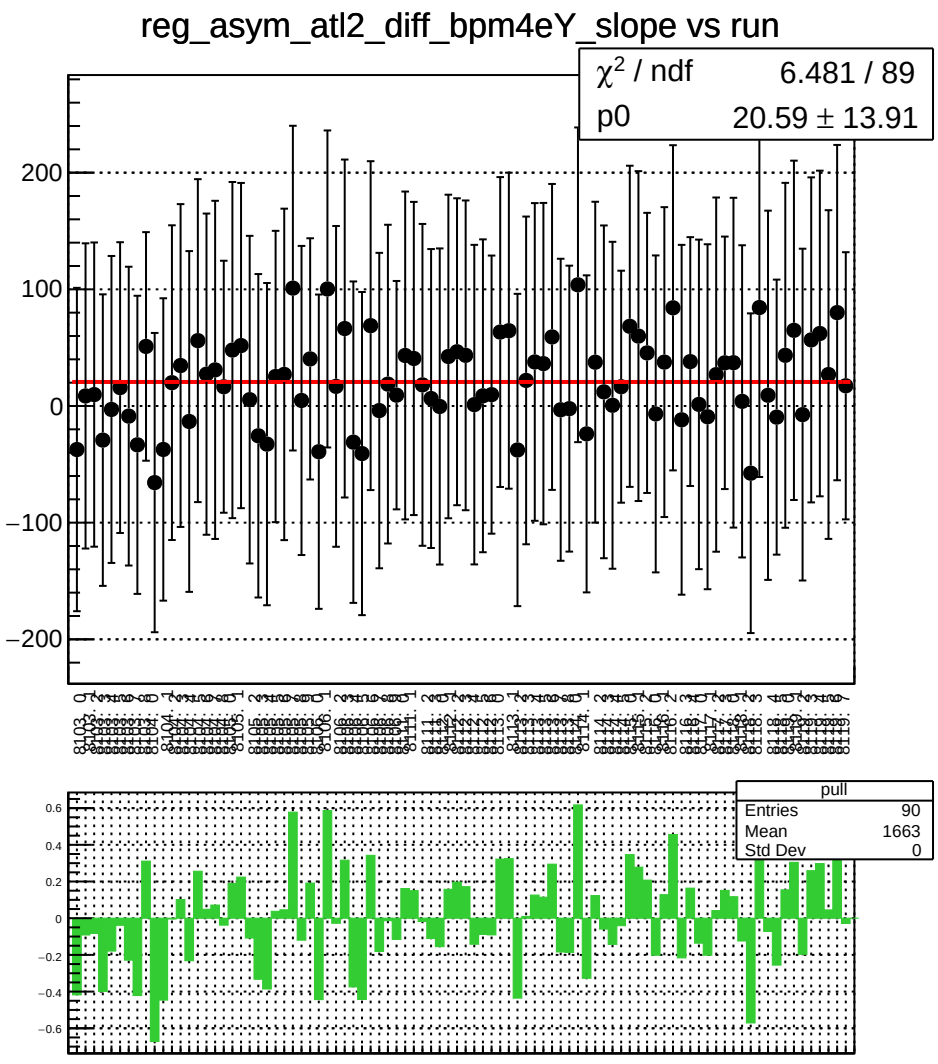

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 850.4 / 89
p0 42.8 ± 0.1761
pull
Entries 90
Mean 390.3
Std Dev 0
pull1D
Entries 90
Mean 0.2308
Std Dev 2.947

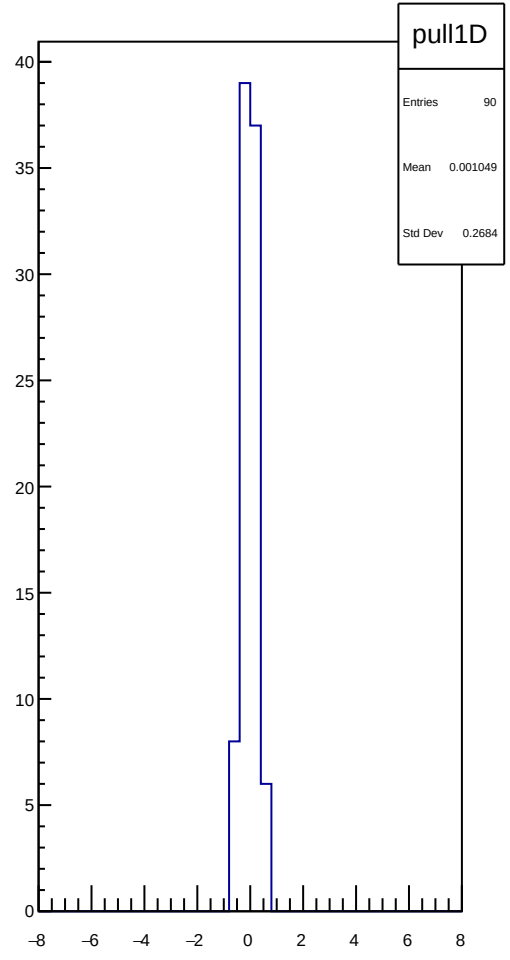

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 6.37 / 89
p0 −367.8 ± 8.65
−200
−250
−300
−350
−400
−450
−500
pull
Entries 90
Mean 1.279e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 90
Mean 0.000271
Std Dev 0.266
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

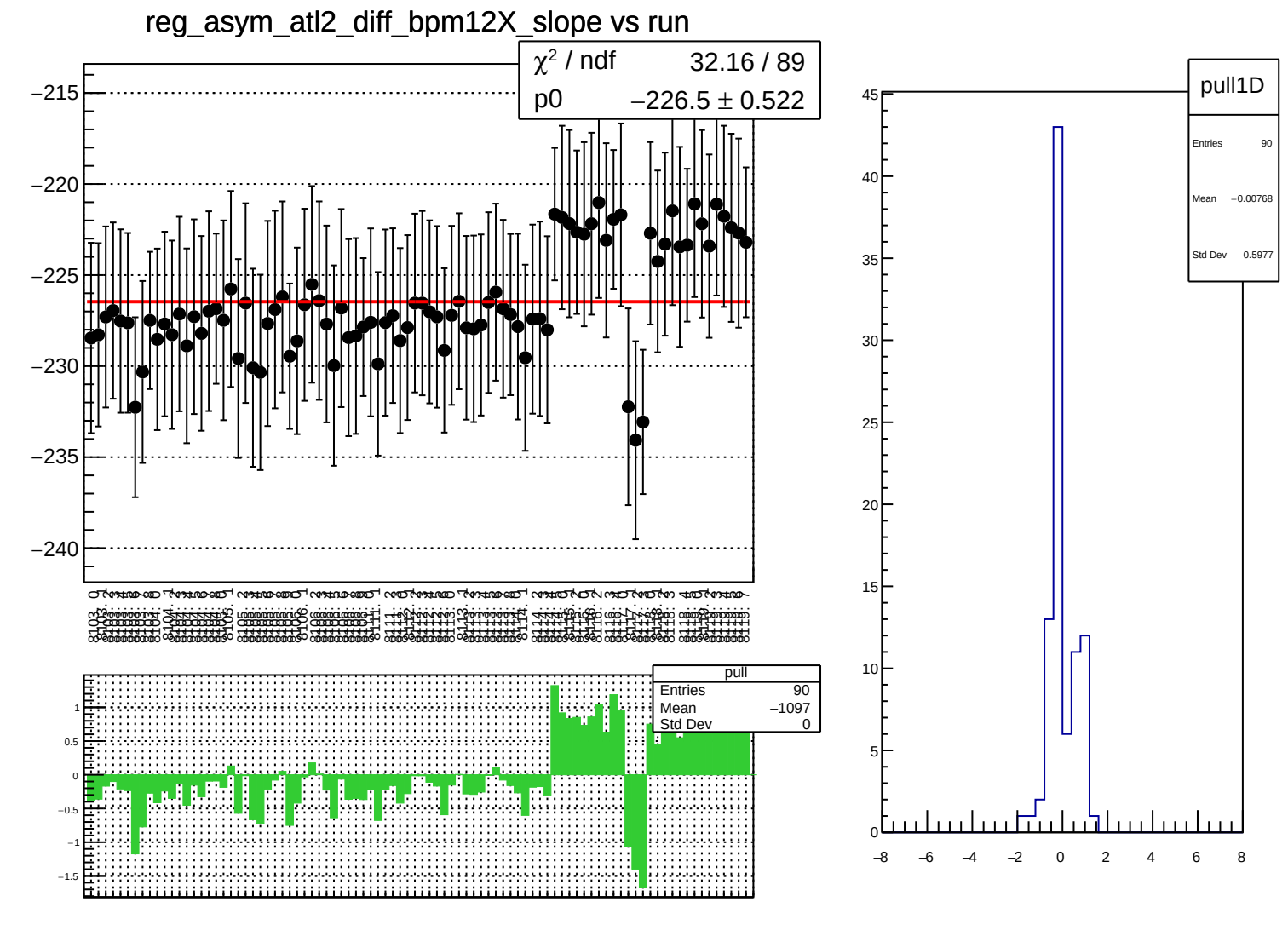

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.518 / 89
p0 79.59 ± 13.01
pull
Entries 90
Mean 1329
Std Dev 0

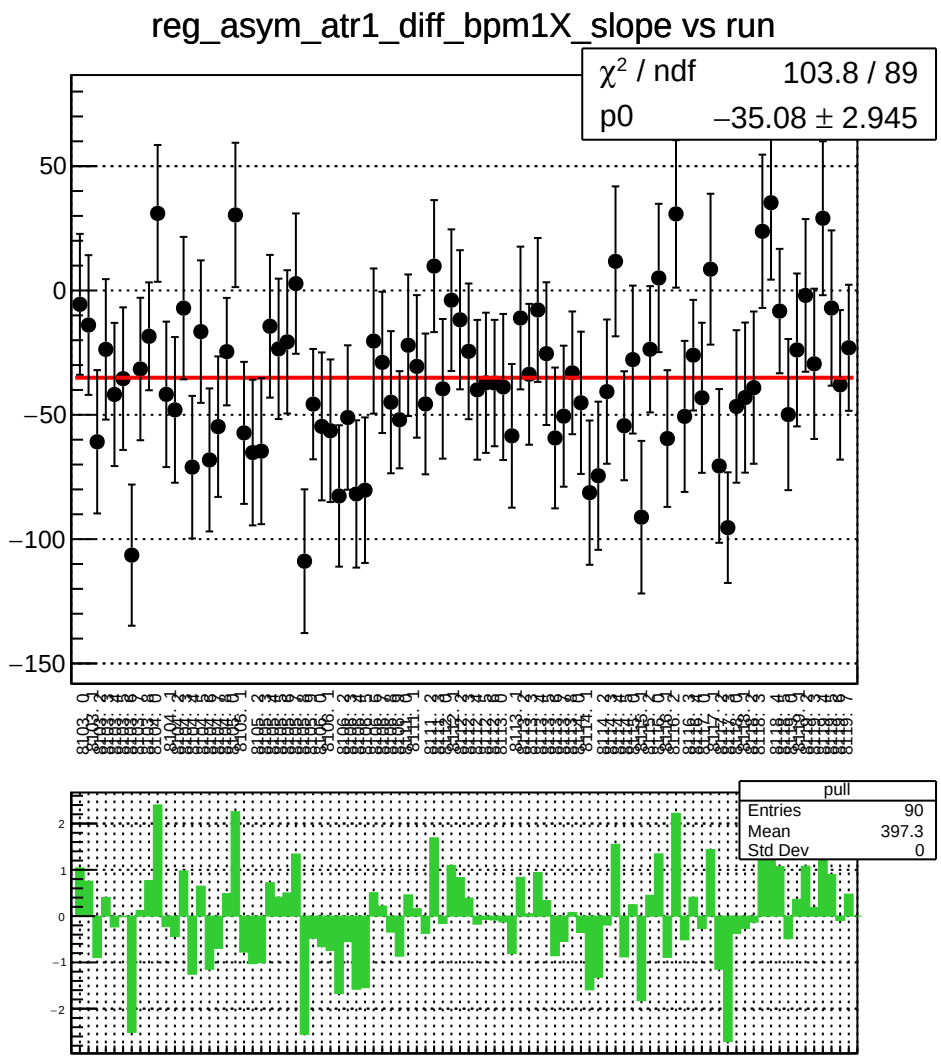

pull1D
Entries 90
Mean −0.001623
Std Dev 0.2691

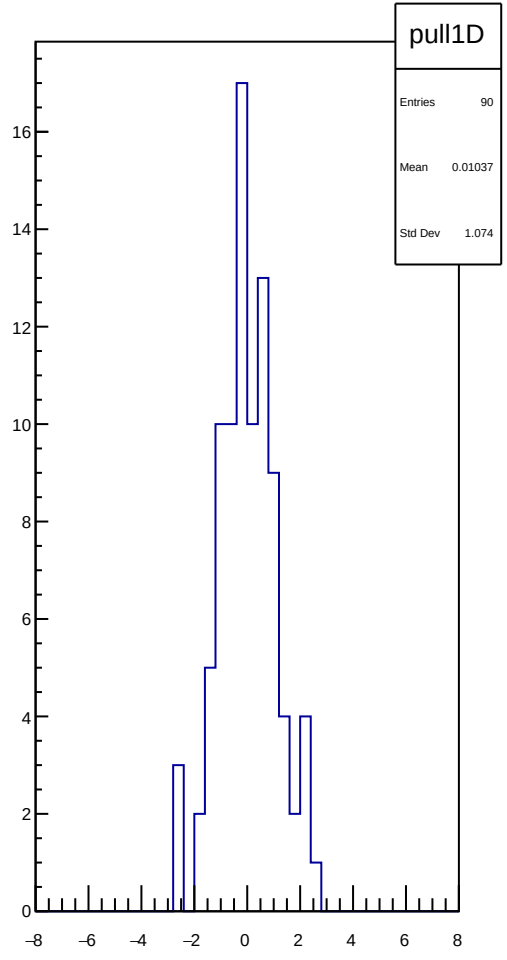

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 6.635 / 89
p0 257.7 ± 8.226
pull
Entries 90
Mean −6787
Std Dev 0
pull1D
Entries 90
Mean 0.0005446
Std Dev 0.2715

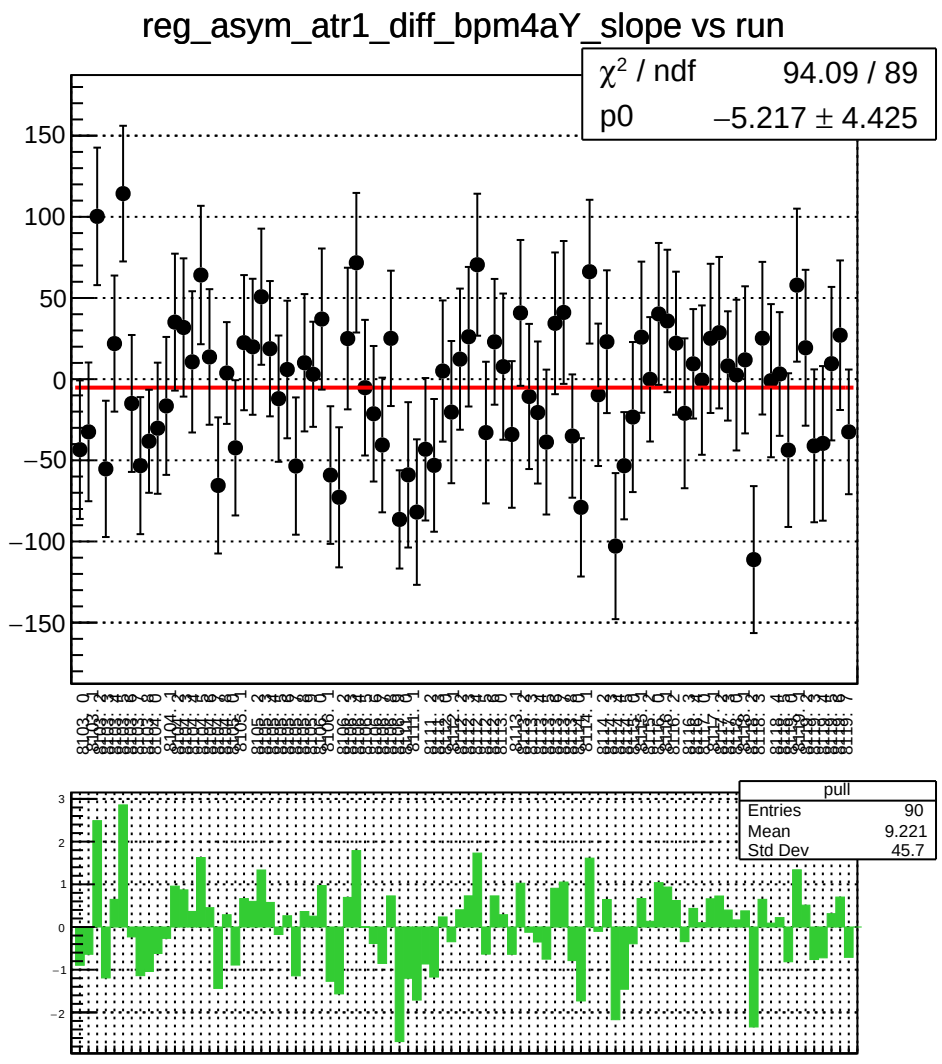

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.481 / 89
p0 20.59 ± 13.91
200
100
0
−100
−200
pull
Entries 90
Mean 1663
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

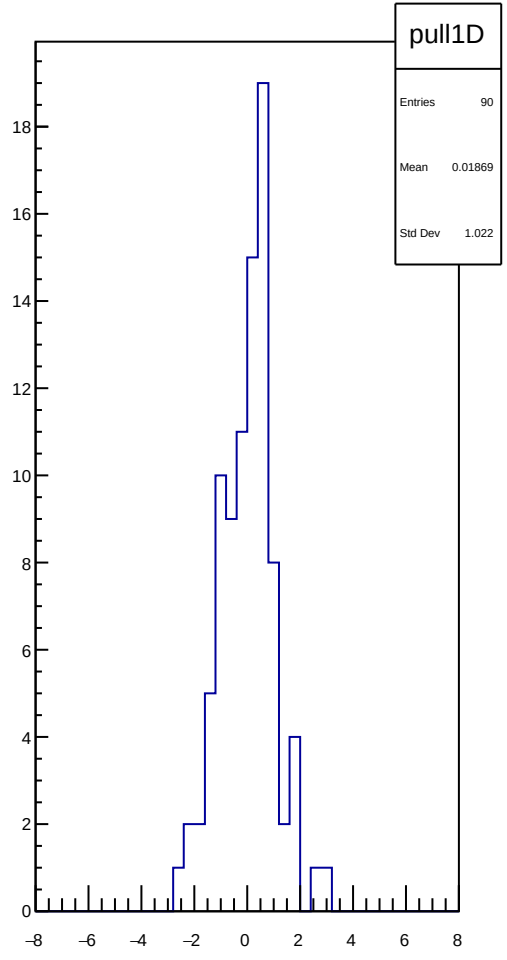

pull1D
Entries 90
Mean 0.001049
Std Dev 0.2684
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

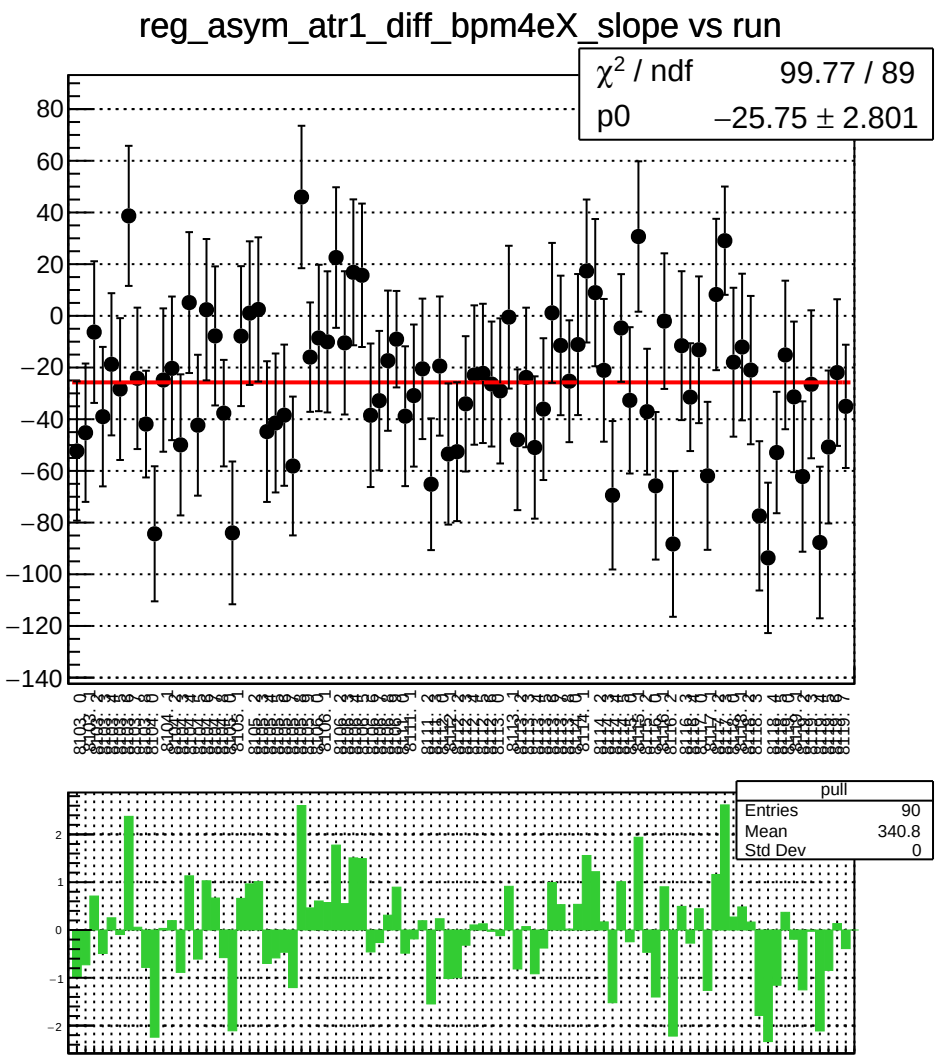

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 32.16 / 89
p0 −226.5 ± 0.522
pull
Entries 90
Mean −1097
Std Dev 0
pull1D
Entries 90
Mean −0.00768
Std Dev 0.5977

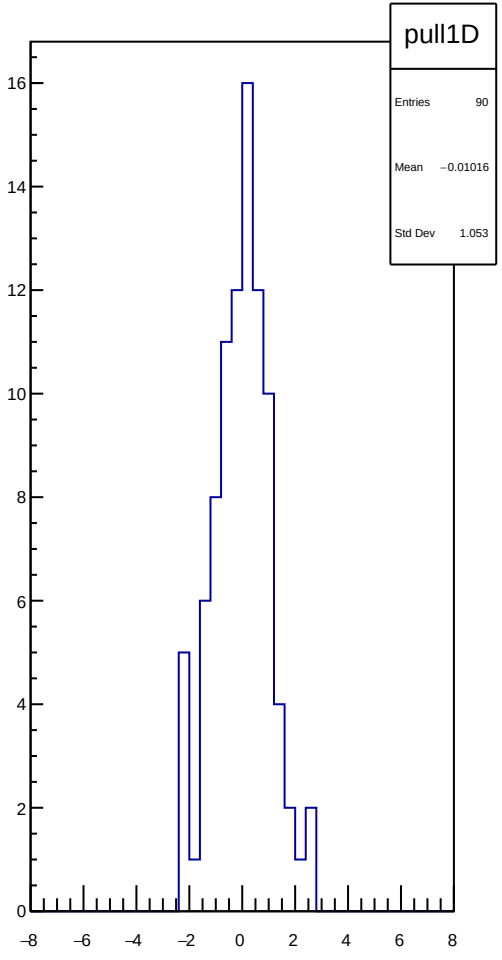

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 103.8 / 89
p0 −35.08 ± 2.945
50
0
−50
−100
−150
pull
Entries 90
Mean 397.3
Std Dev 0
2
1
0
−1
−2

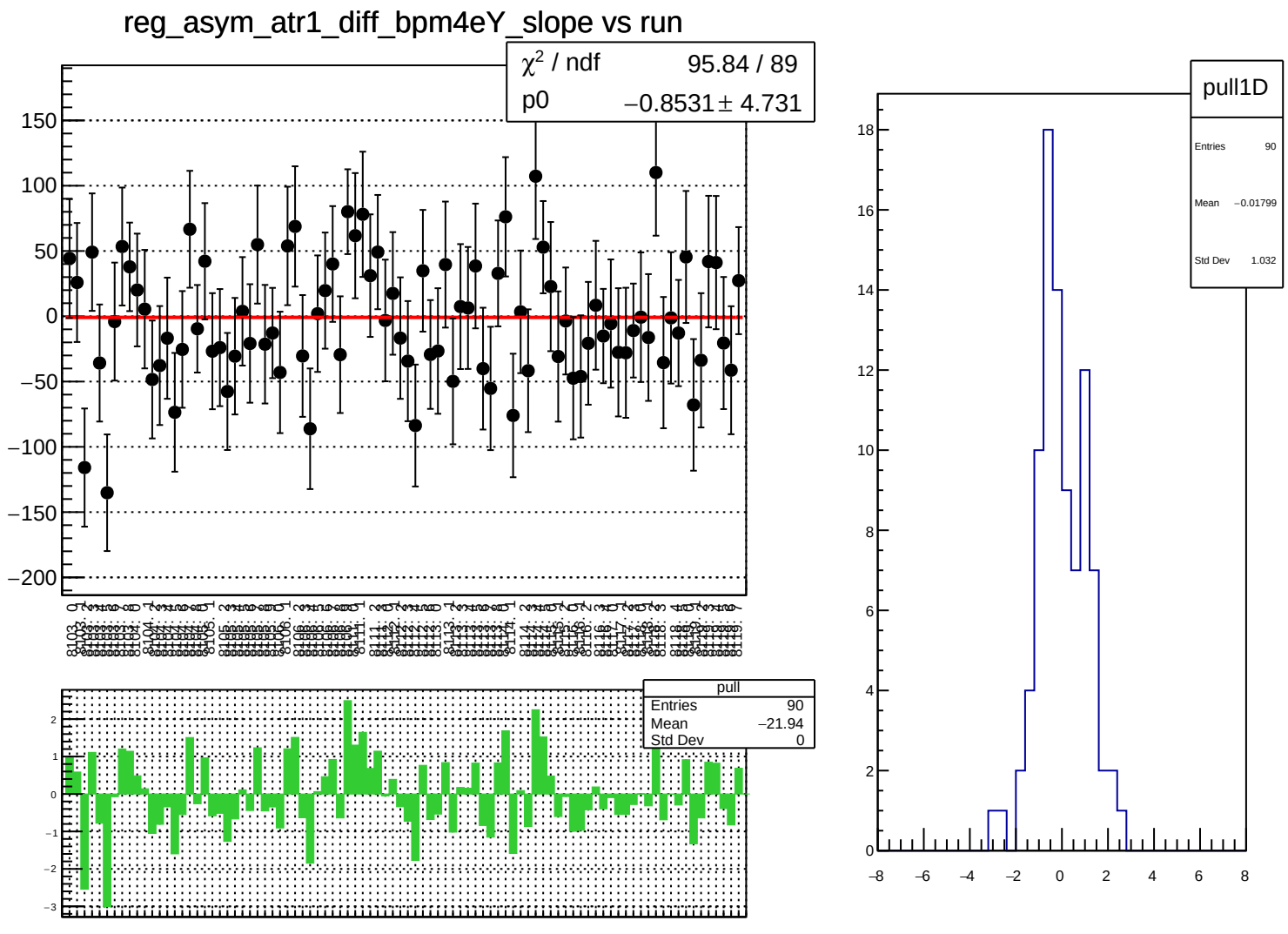

pull1D
Entries 90
Mean 0.01037
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

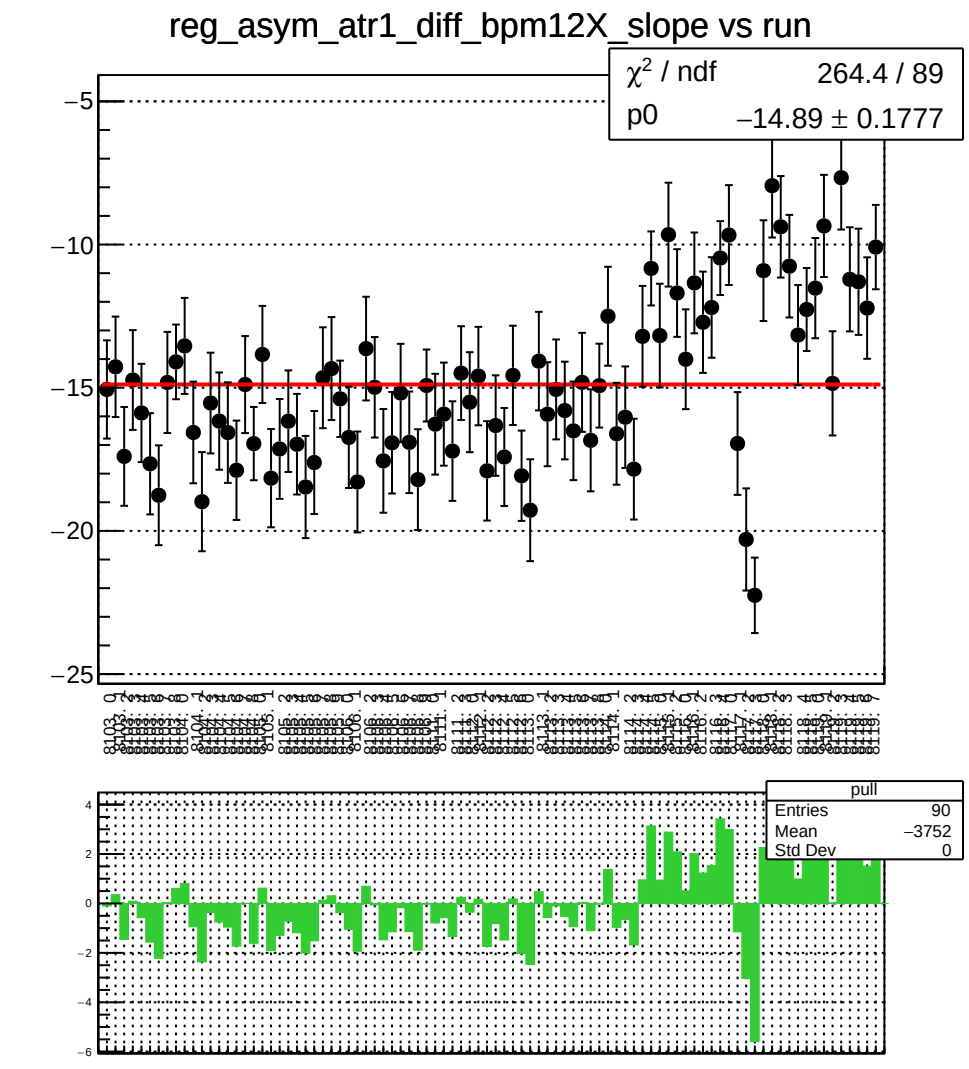

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 94.09 / 89
p0 −5.217 ± 4.425
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 9.221
Std Dev 45.7
3
2
1
0
−1
−2

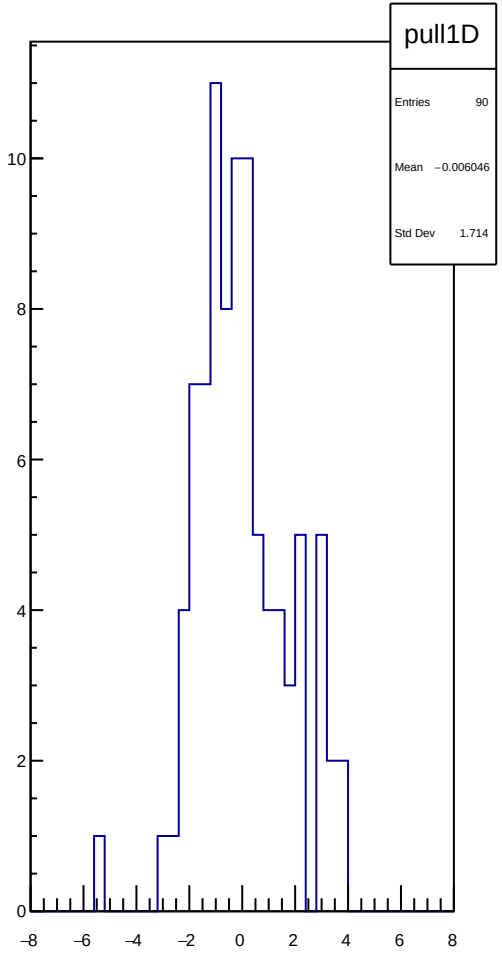

pull1D
Entries 90
Mean 0.01869
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

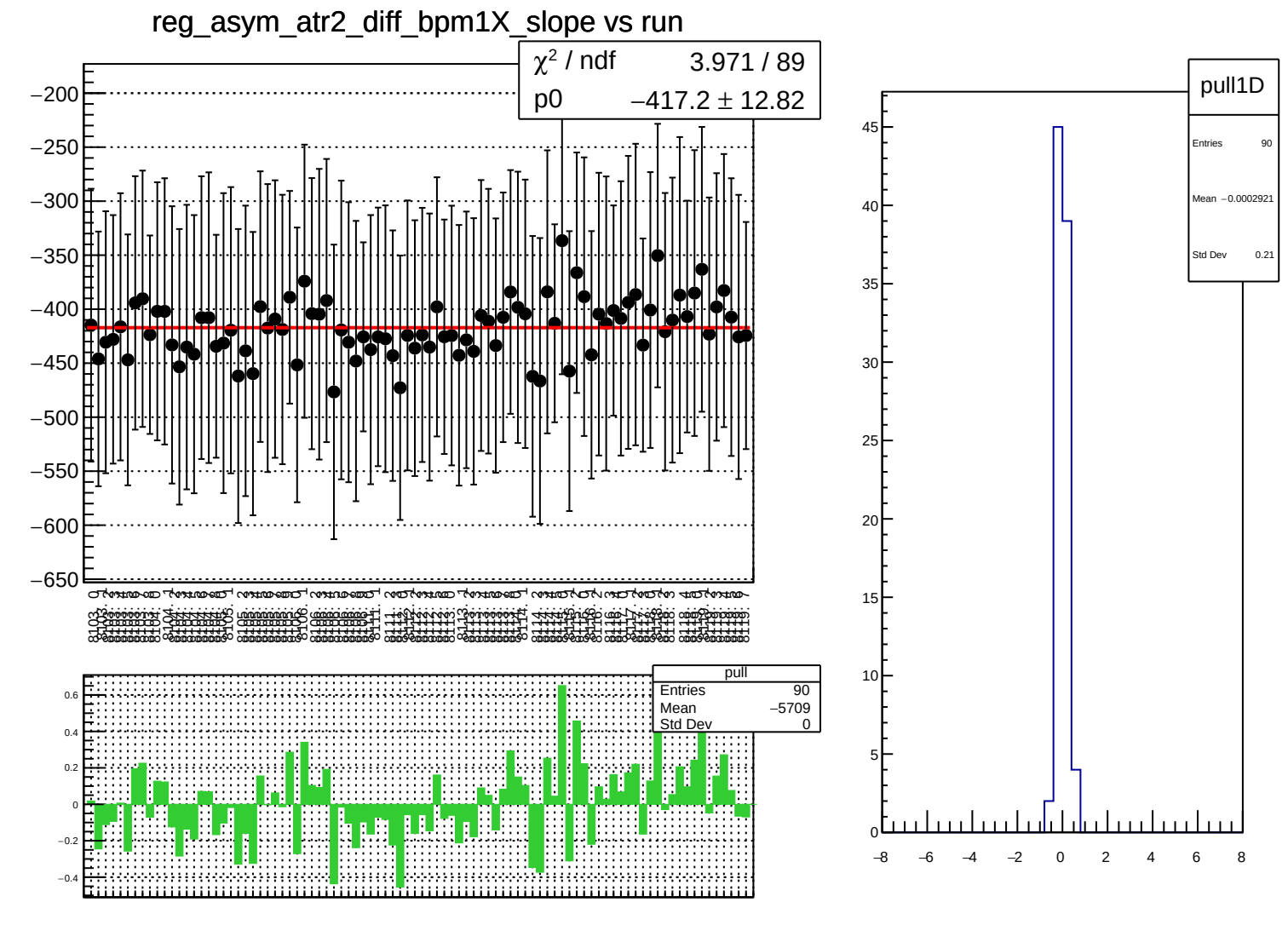

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 99.77 / 89
p0 −25.75 ± 2.801
pull
Entries 90
Mean 340.8
Std Dev 0

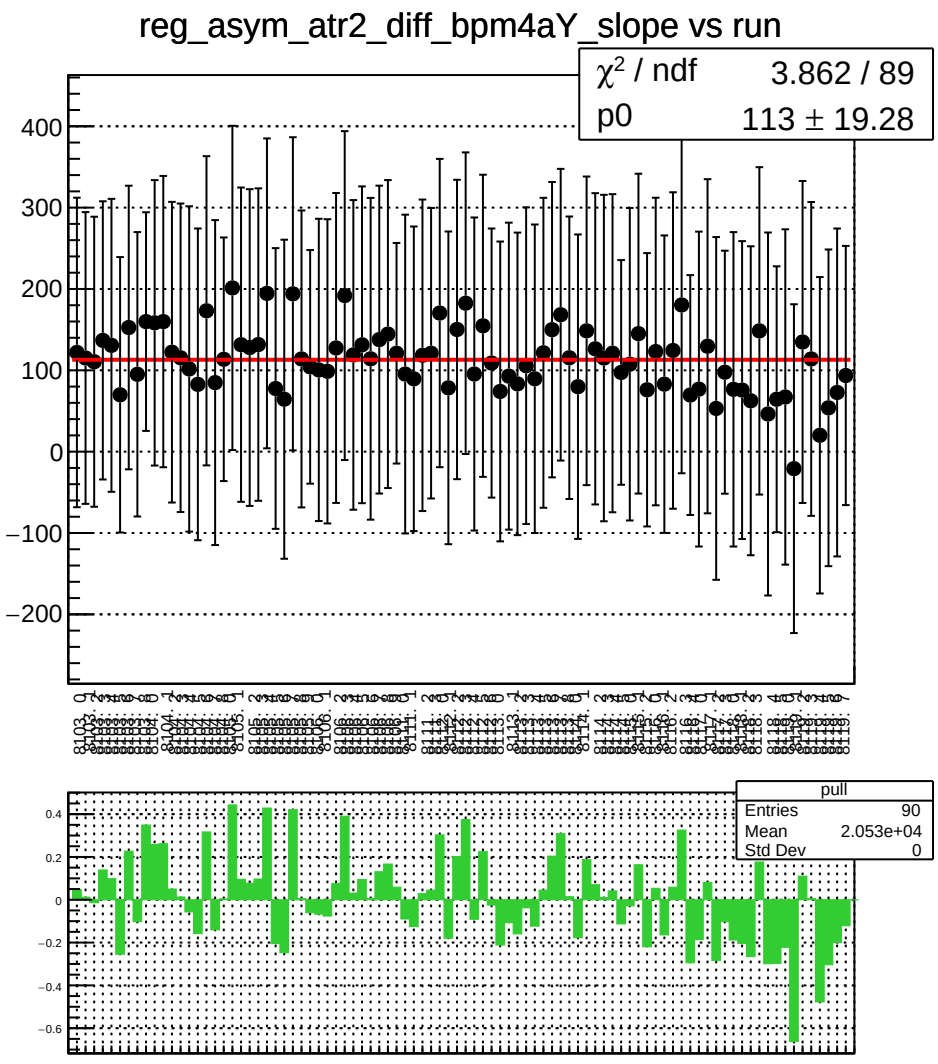

pull1D
Entries 90
Mean −0.01016
Std Dev 1.053

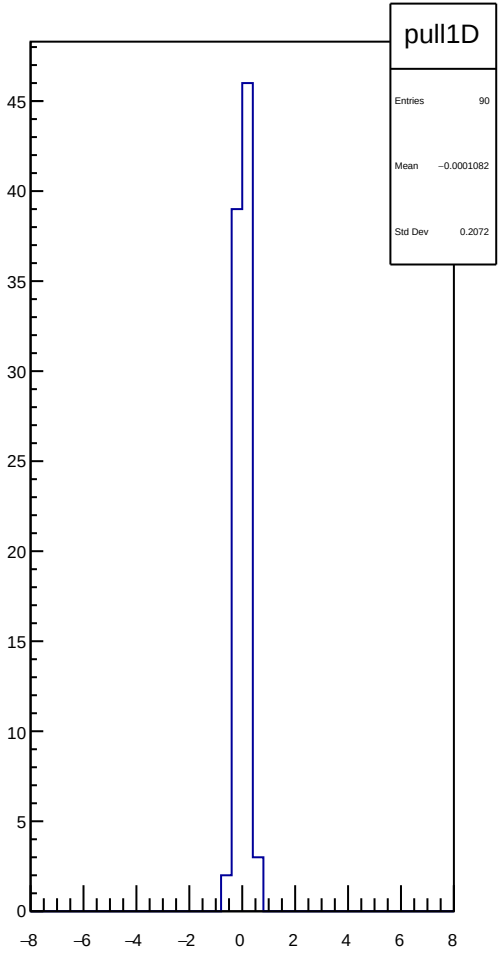

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 95.84 / 89
p0 −0.8531 ± 4.731
pull
Entries 90
Mean −21.94
Std Dev 0
pull1D
Entries 90
Mean −0.01799
Std Dev 1.032

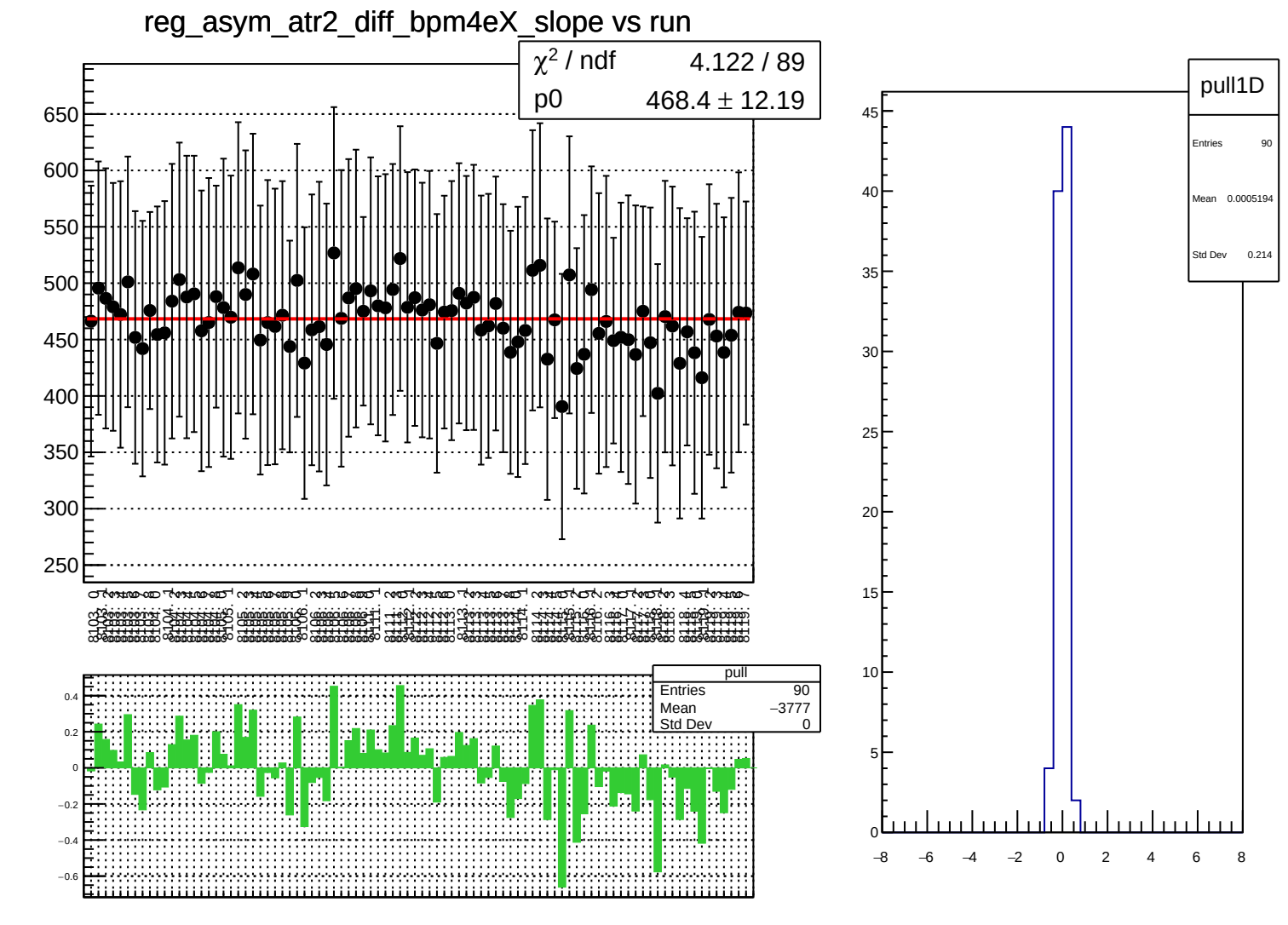

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 264.4 / 89
p0 −14.89 ± 0.1777
pull
Entries 90
Mean −3752
Std Dev 0

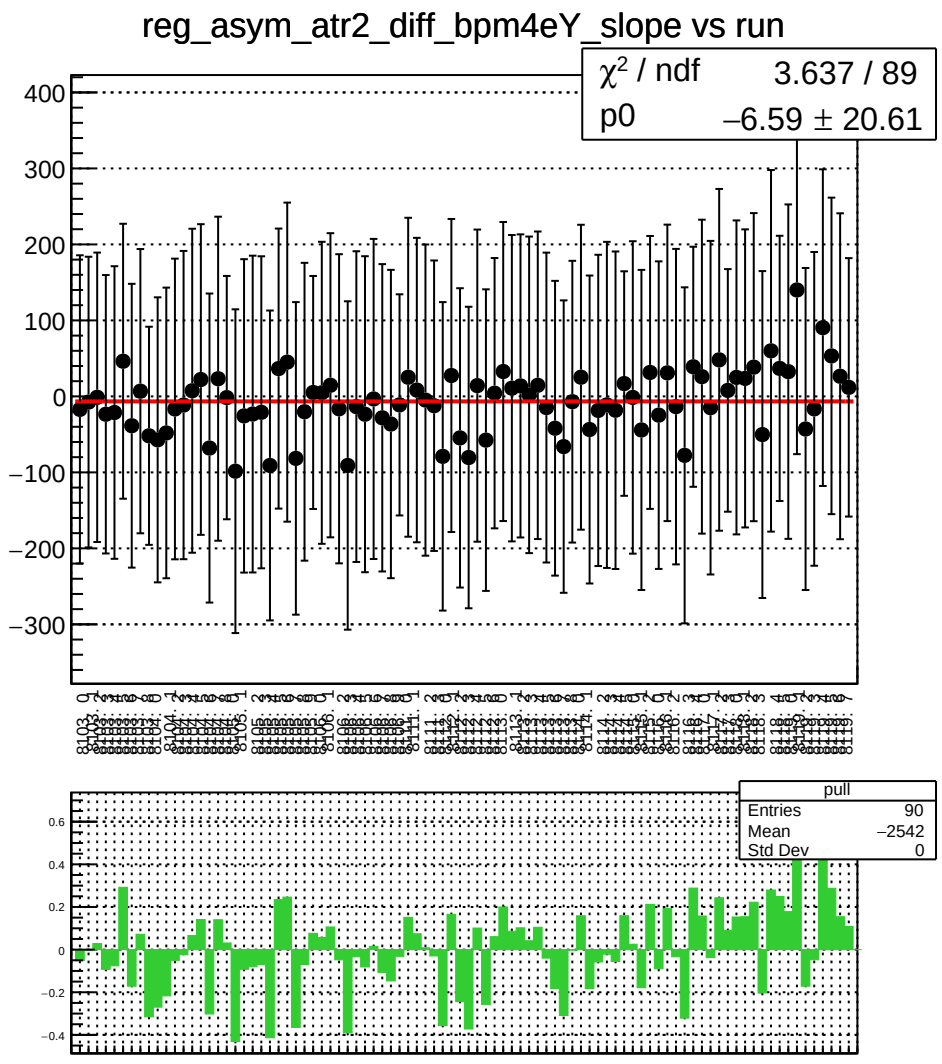

pull1D
Entries 90
Mean −0.006046
Std Dev 1.714

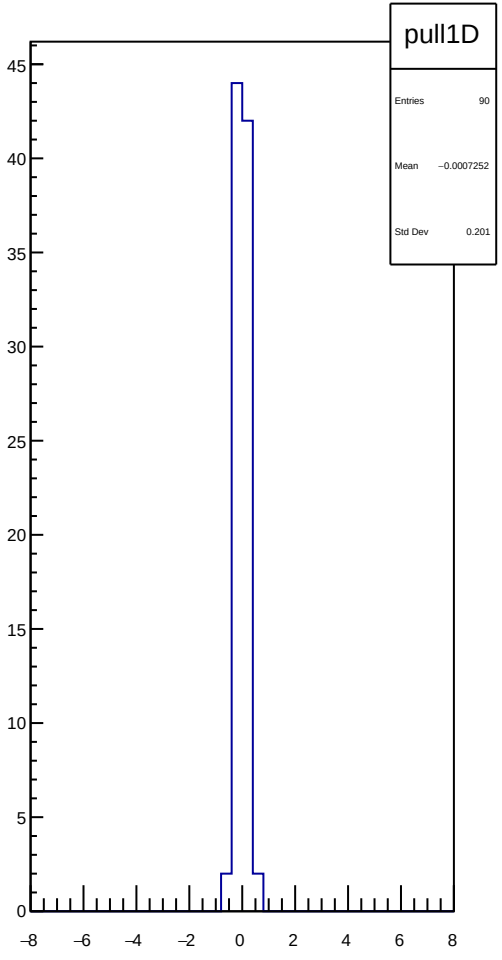

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 3.971 / 89
p0 −417.2 ± 12.82
pull
Entries 90
Mean −5709
Std Dev 0
pull1D
Entries 90
Mean −0.0002921
Std Dev 0.21

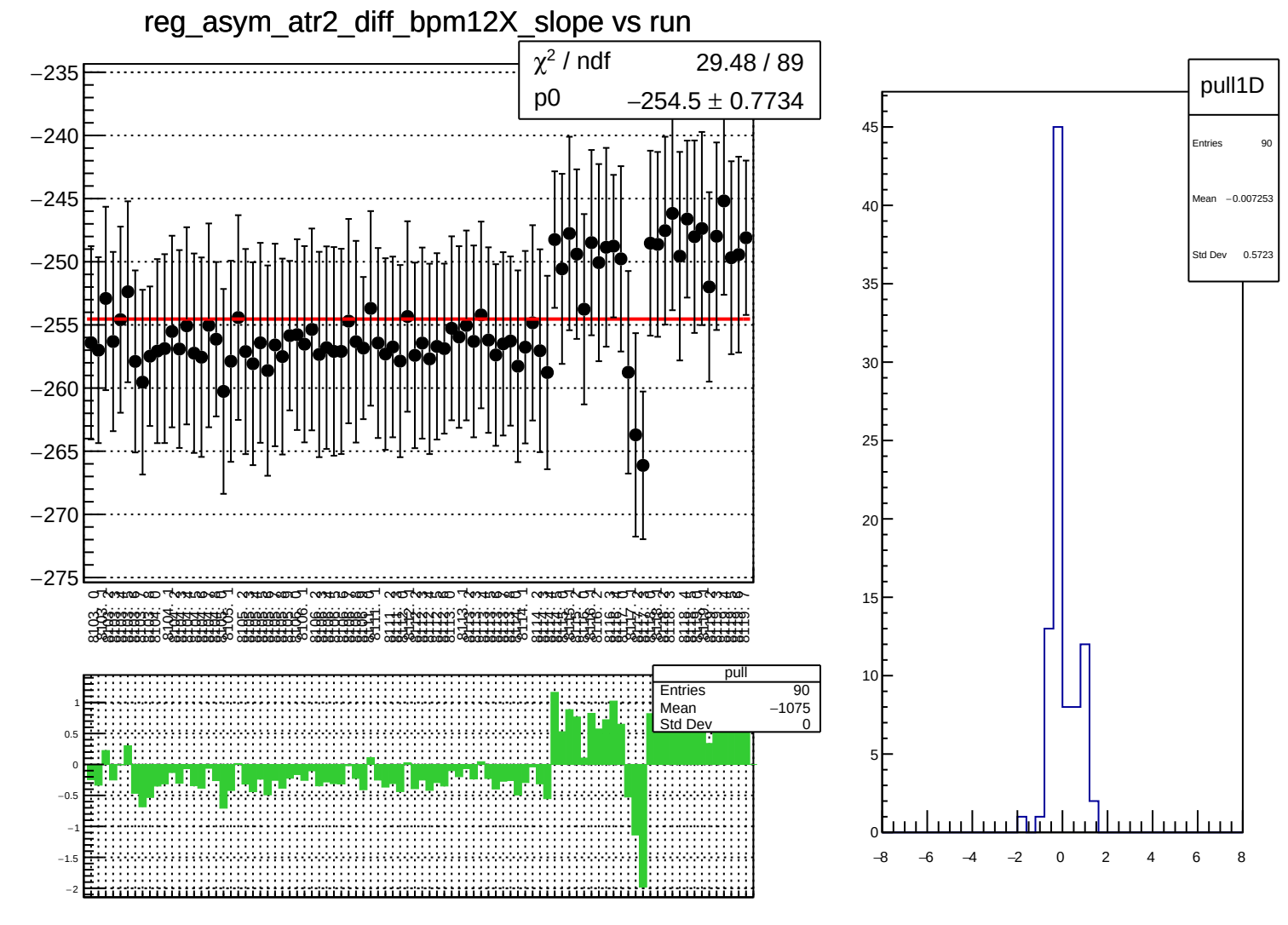

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.862 / 89
p0 113 ± 19.28
pull
Entries 90
Mean 2.053e+04
Std Dev 0

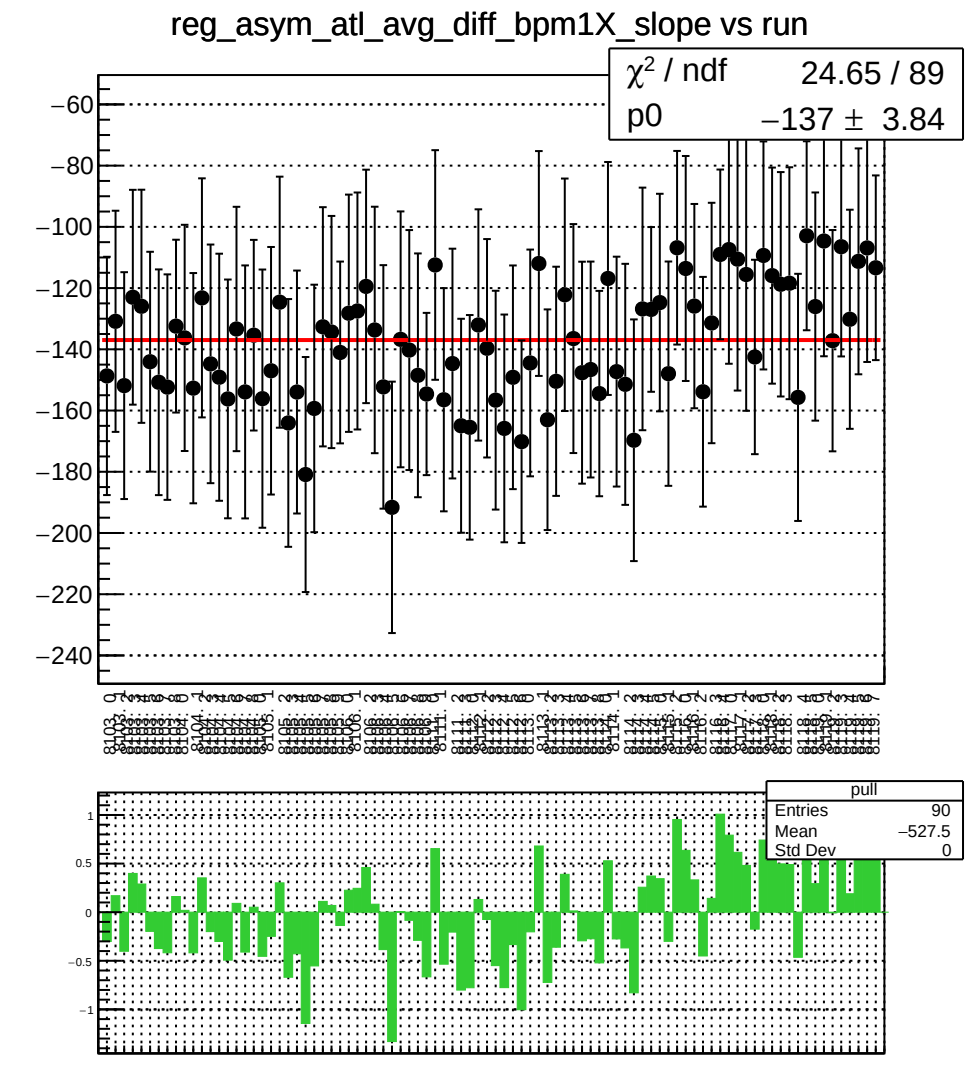

pull1D
Entries 90
Mean −0.0001082
Std Dev 0.2072

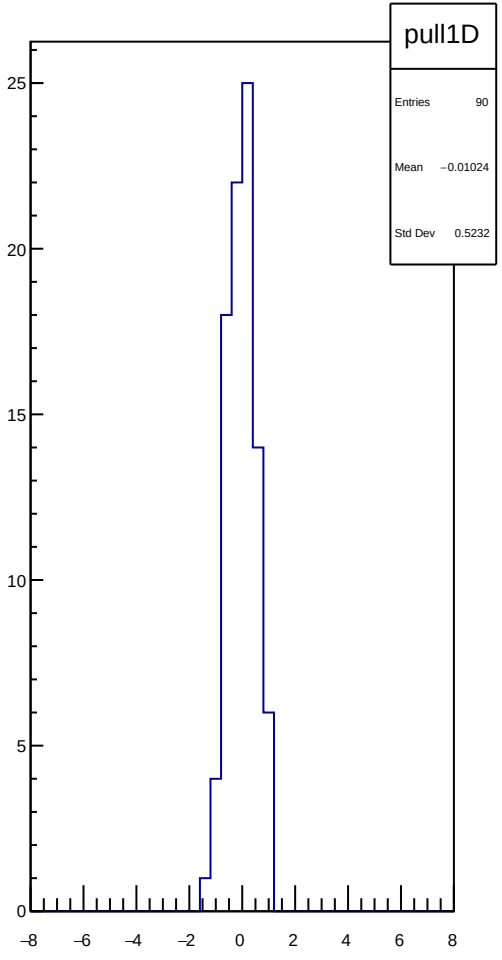

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 4.122 / 89
p0 468.4 ± 12.19
650
600
550
500
450
400
350
300
250
pull
Entries 90
Mean −3777
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 90
Mean 0.0005194
Std Dev 0.214
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

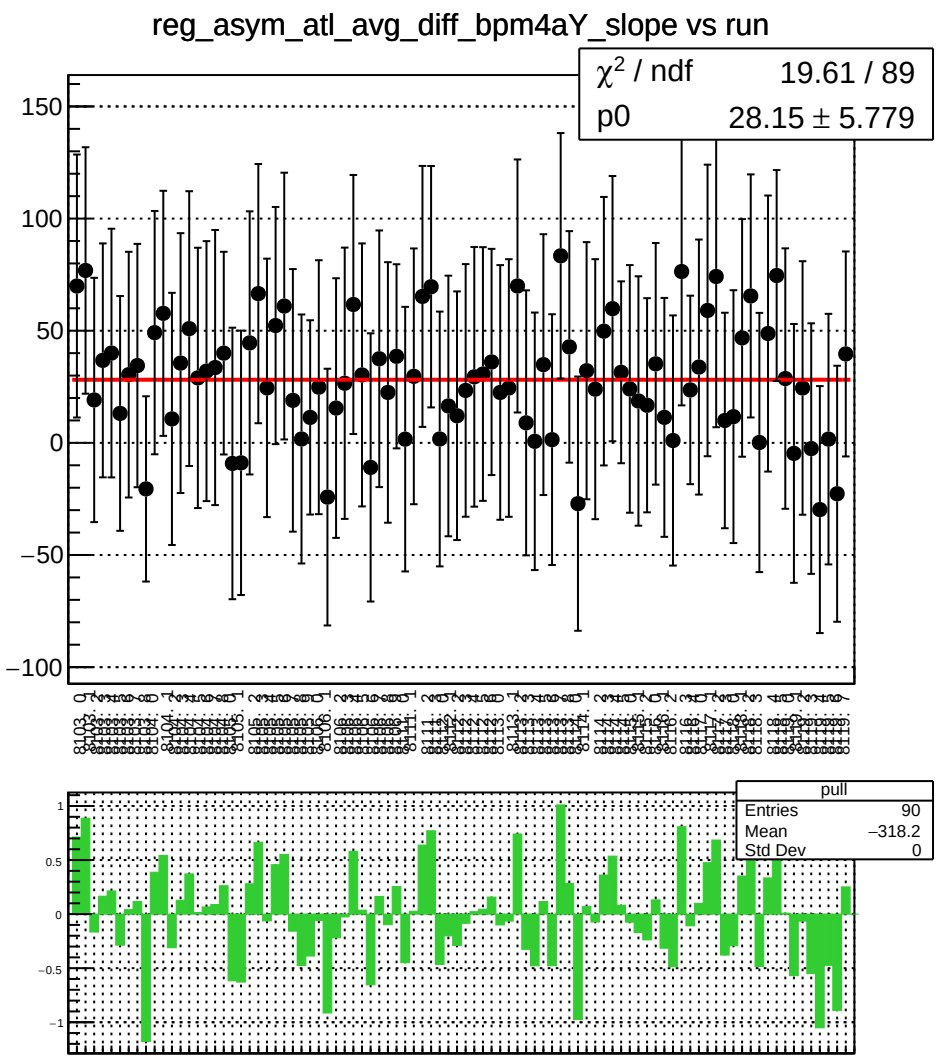

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.637 / 89
p0 −6.59 ± 20.61
pull
Entries 90
Mean −2542
Std Dev 0

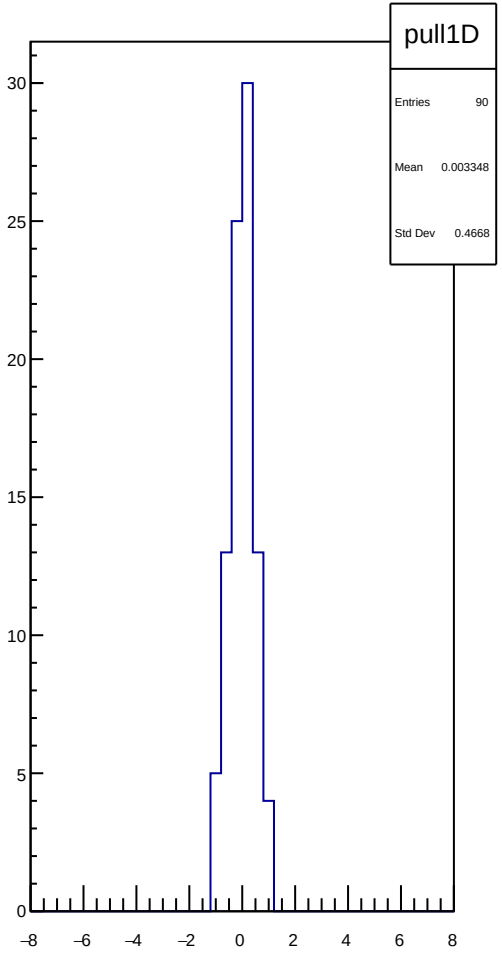

pull1D
Entries 90
Mean −0.0007252
Std Dev 0.201

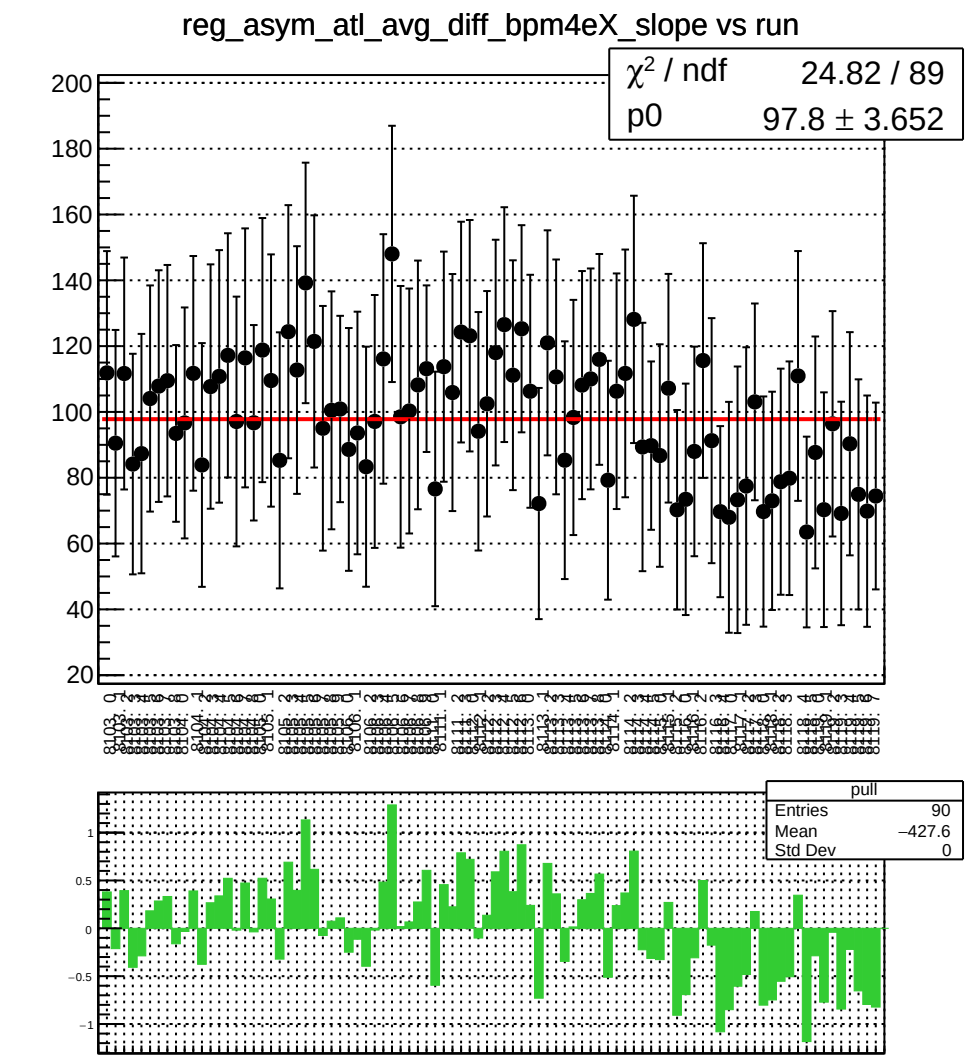

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 29.48 / 89
p0 −254.5 ± 0.7734
pull
Entries 90
Mean −1075
Std Dev 0
pull1D
Entries 90
Mean −0.007253
Std Dev 0.5723

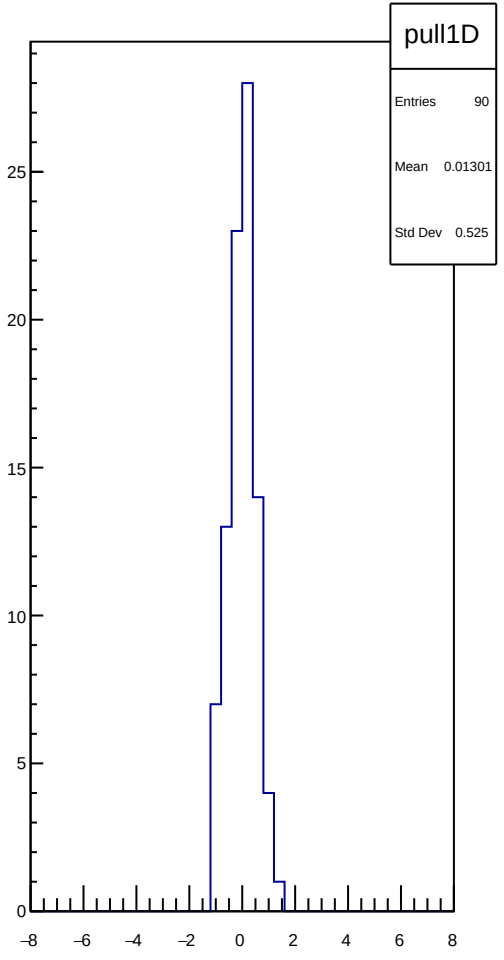

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 24.65 / 89
p0 −137 ± 3.84
pull
Entries 90
Mean −527.5
Std Dev 0

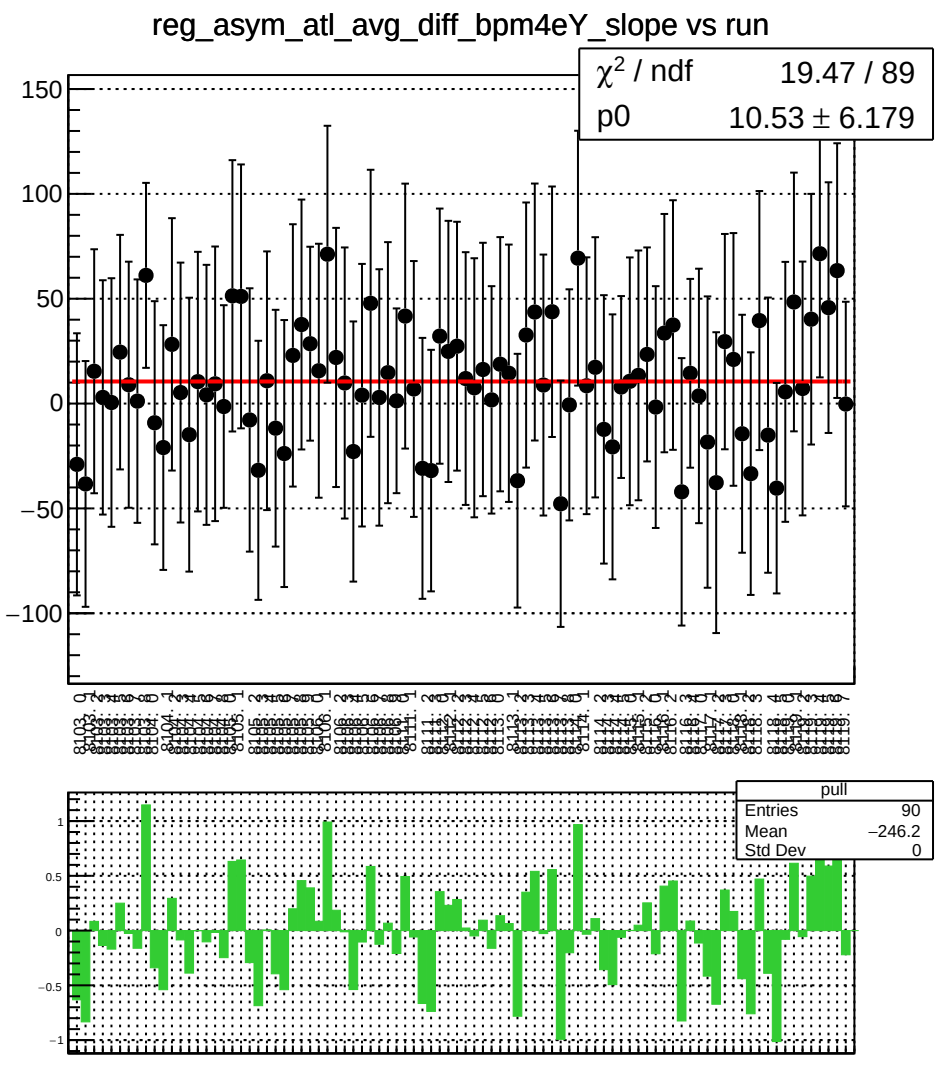

pull1D
Entries 90
Mean −0.01024
Std Dev 0.5232

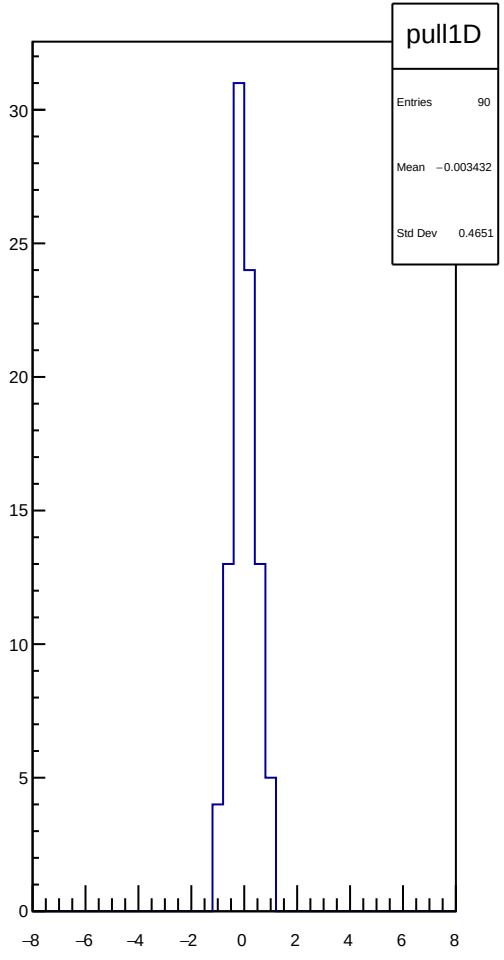

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.61 / 89
p0 28.15 ± 5.779
150
100
50
0
−50
−100
pull
Entries 90
Mean −318.2
Std Dev 0
1
0.5
0
−0.5
−1

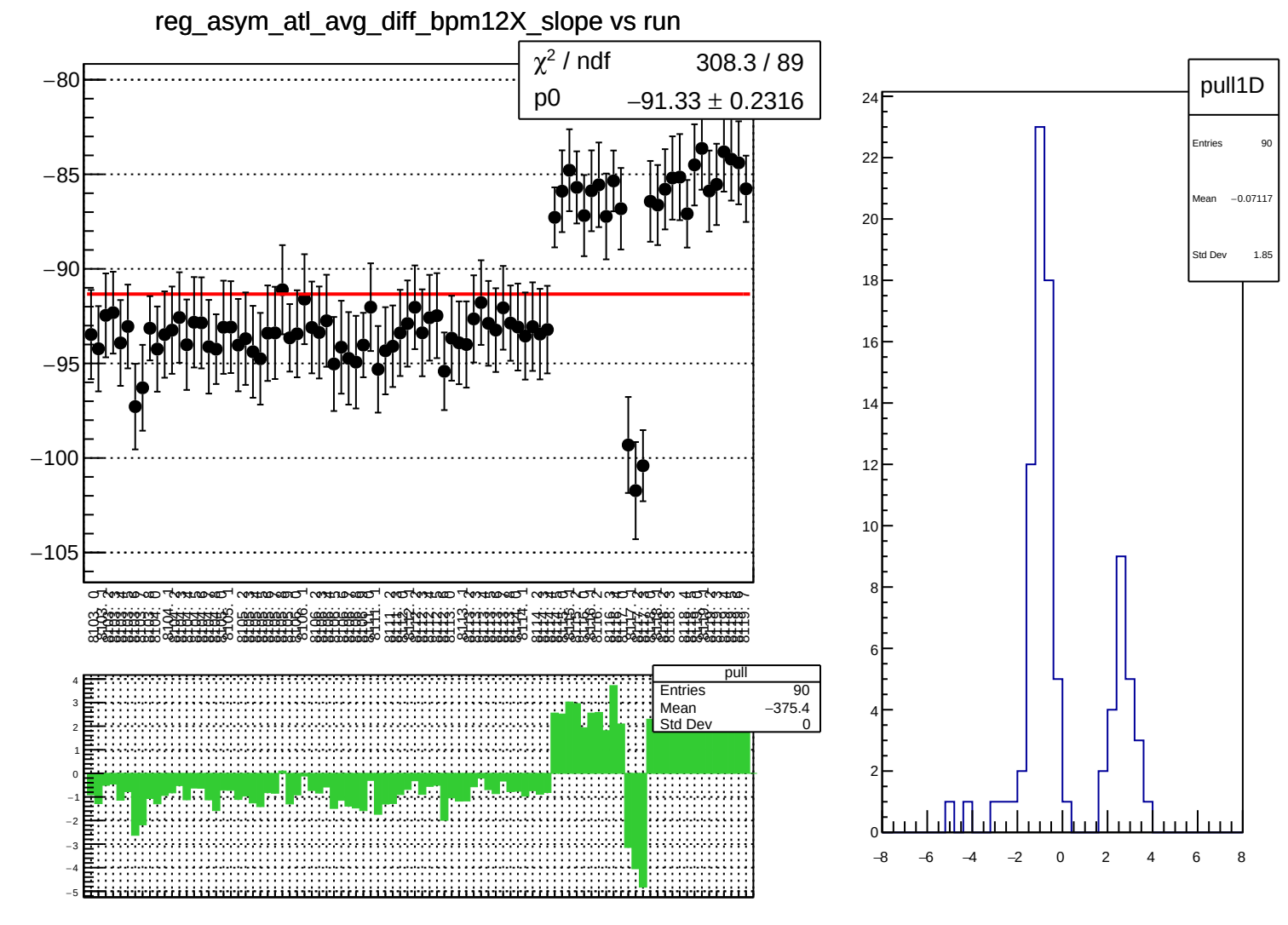

pull1D
Entries 90
Mean 0.003348
Std Dev 0.4668
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

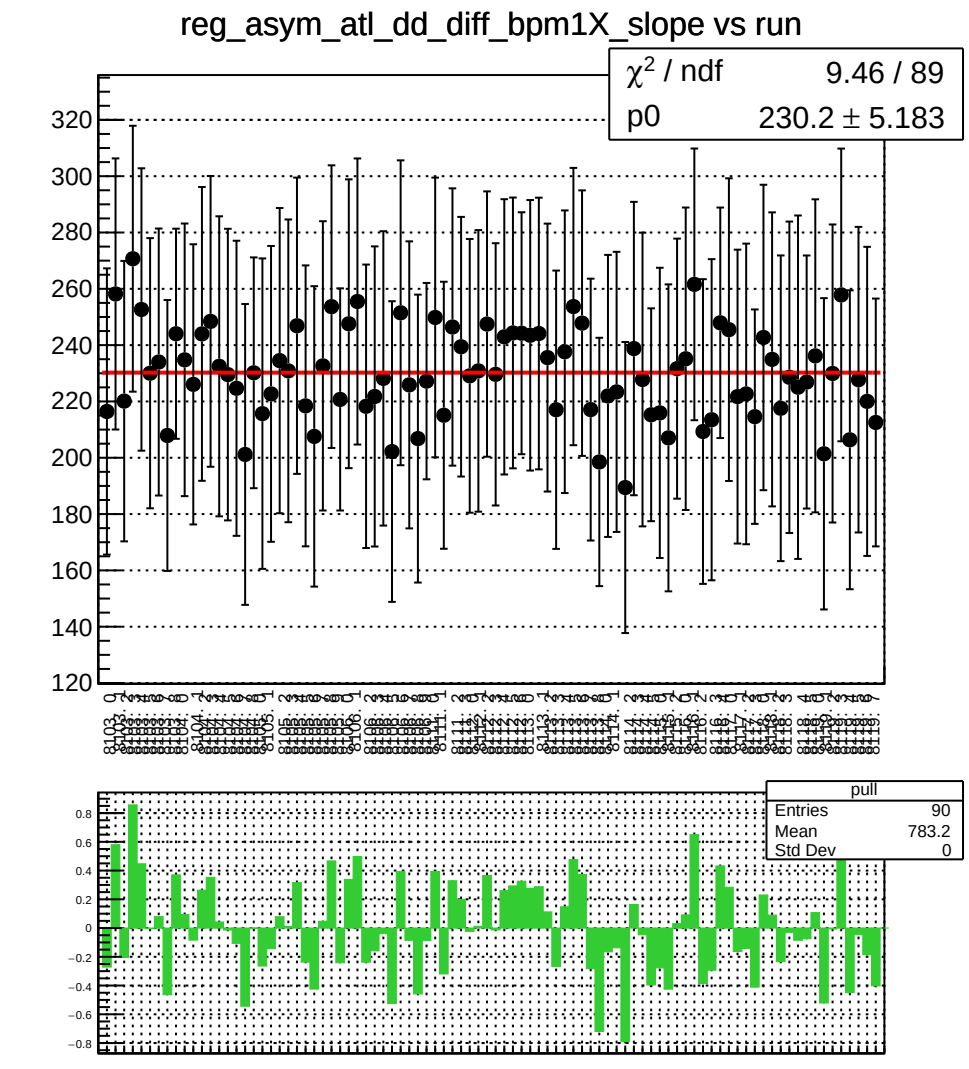

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.82 / 89
p0 97.8 ± 3.652
pull
Entries 90
Mean −427.6
Std Dev 0

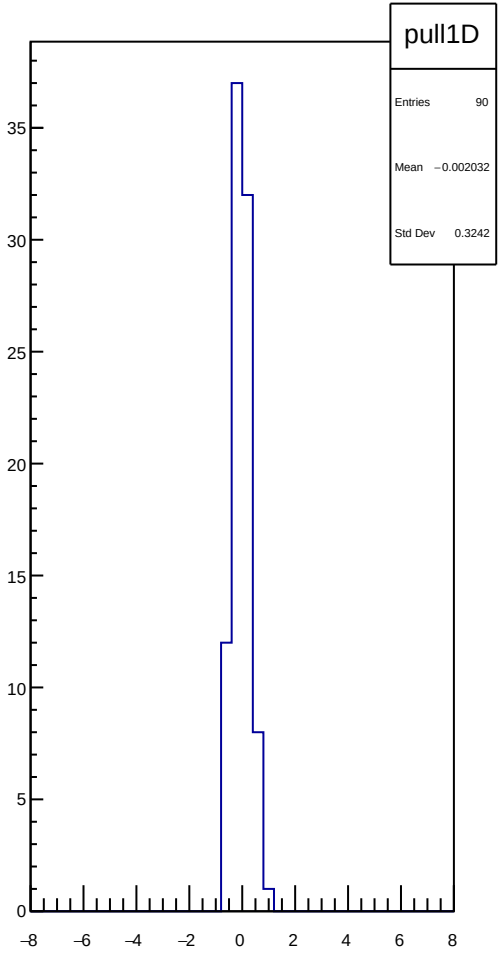

pull1D
Entries 90
Mean 0.01301
Std Dev 0.525

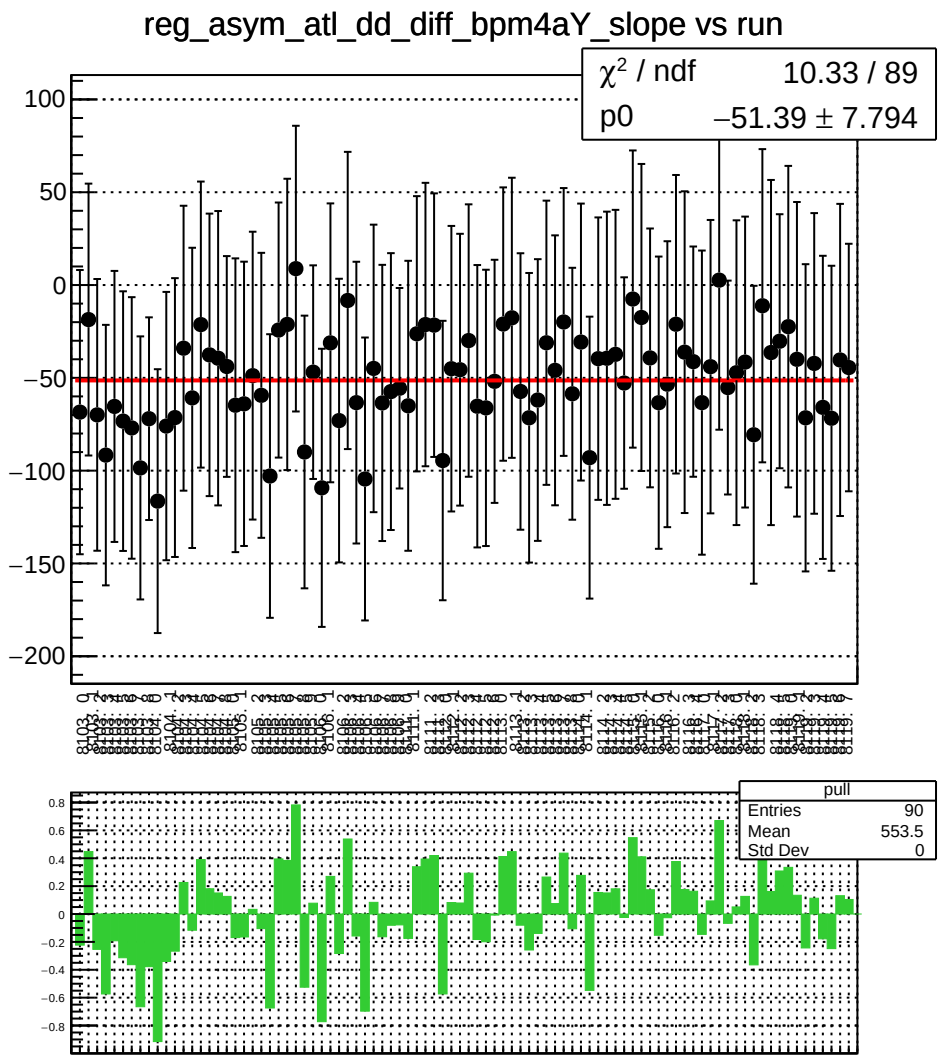

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.47 / 89
p0 10.53 ± 6.179
pull
Entries 90
Mean −246.2
Std Dev 0

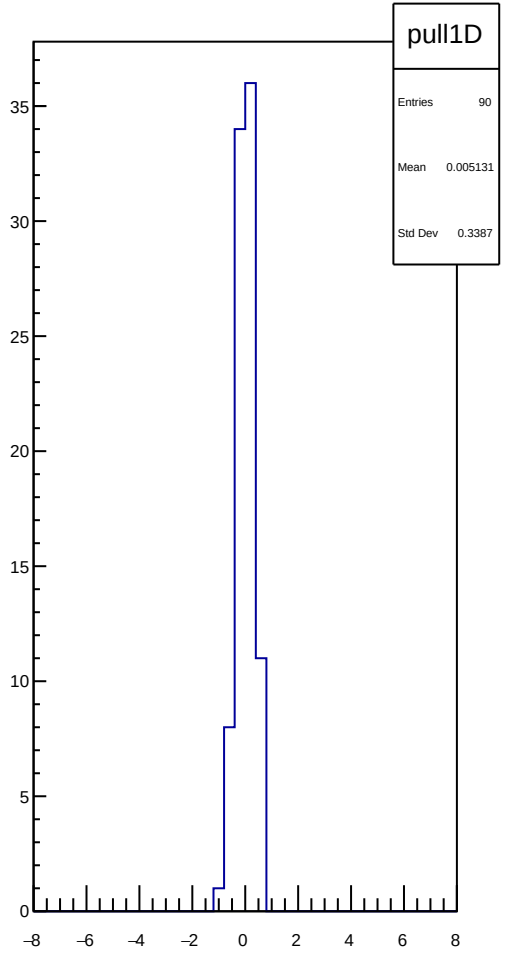

pull1D
Entries 90
Mean −0.003432
Std Dev 0.4651

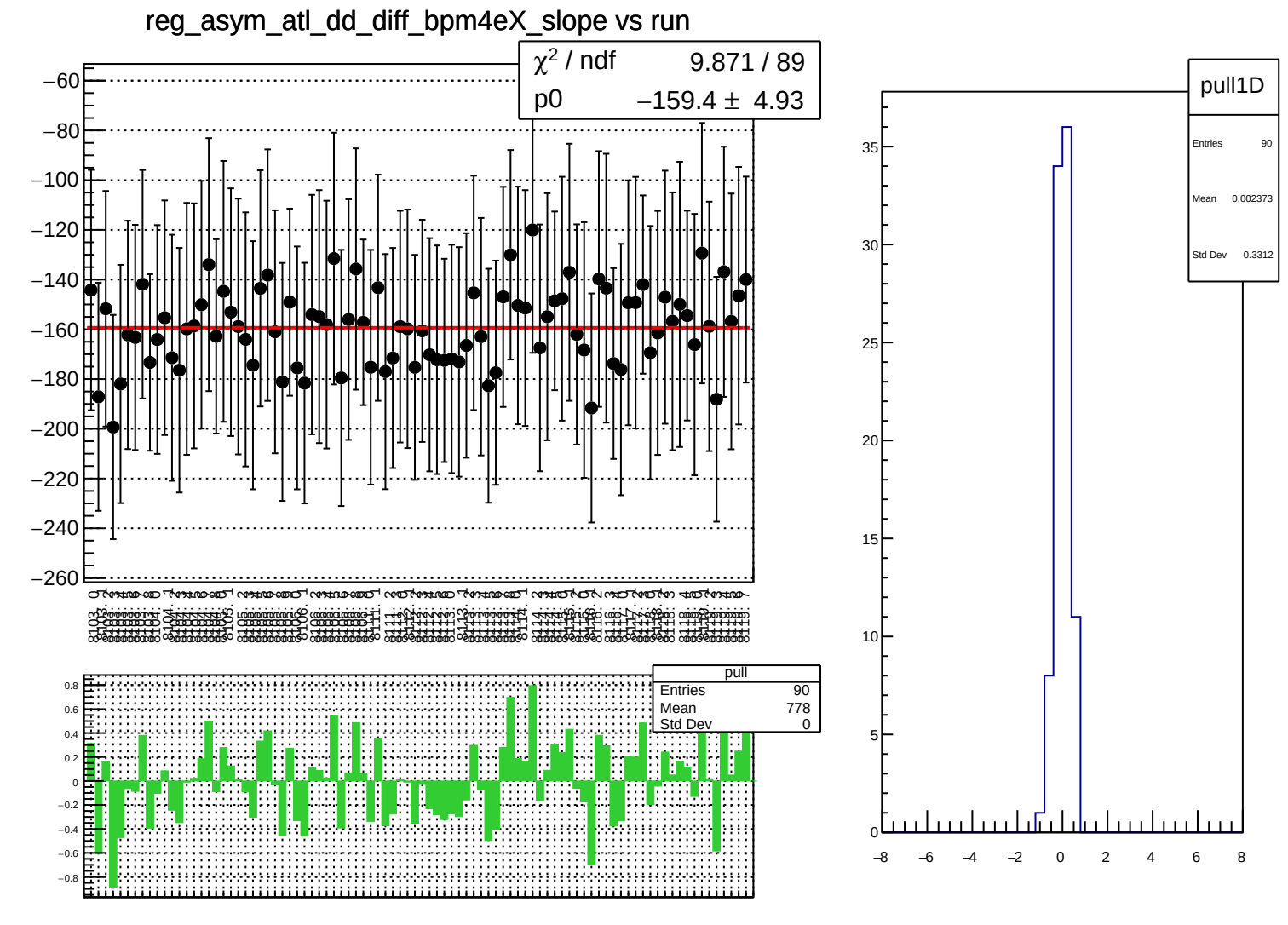

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 308.3 / 89
p0 −91.33 ± 0.2316
pull
Entries 90
Mean −375.4
Std Dev 0
pull1D
Entries 90
Mean −0.07117
Std Dev 1.85

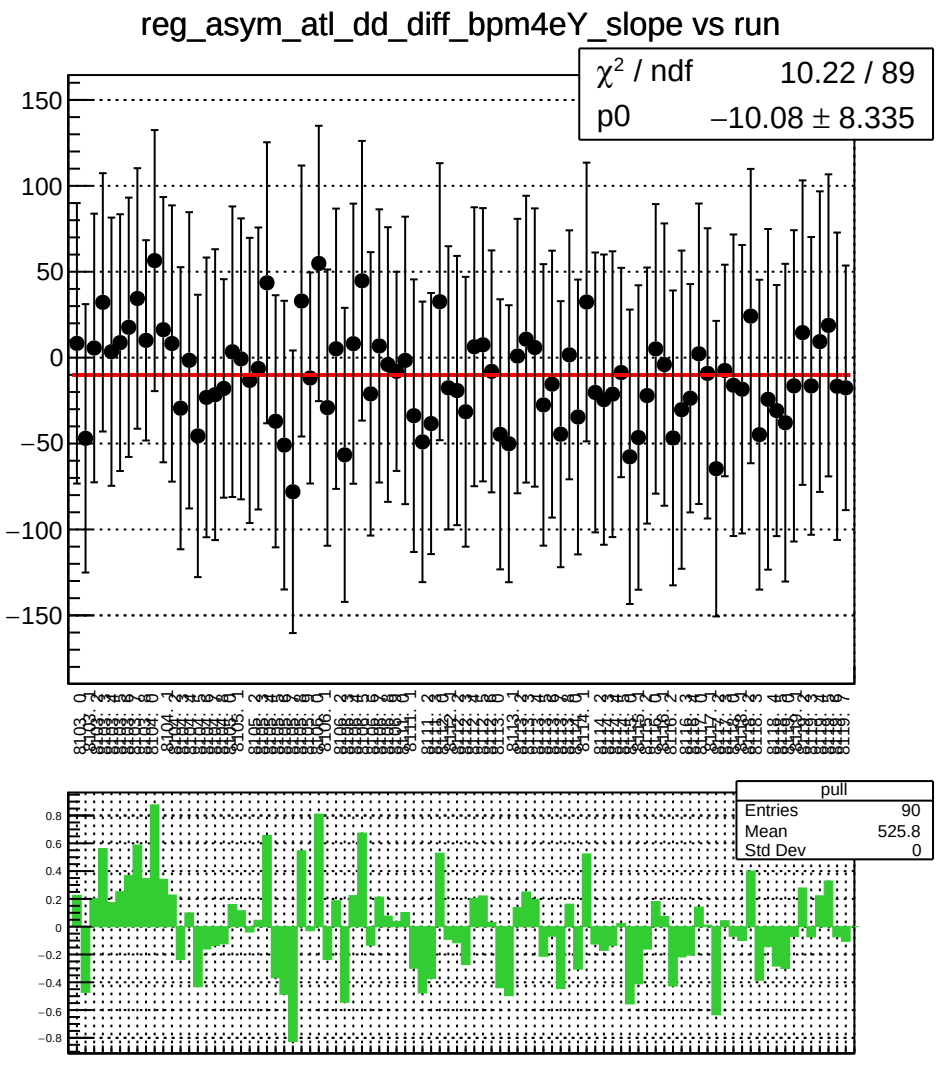

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 9.46 / 89
p0 230.2 ± 5.183
pull
Entries 90
Mean 783.2
Std Dev 0

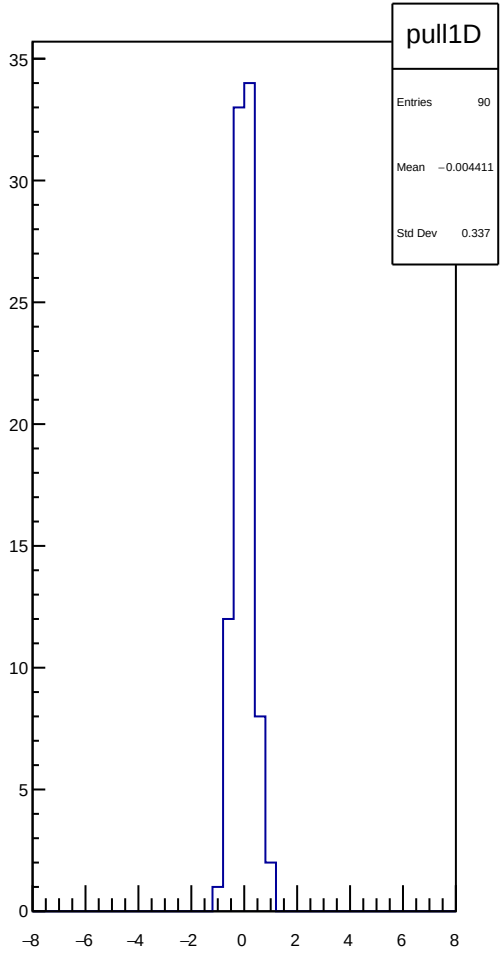

pull1D
Entries 90
Mean −0.002032
Std Dev 0.3242

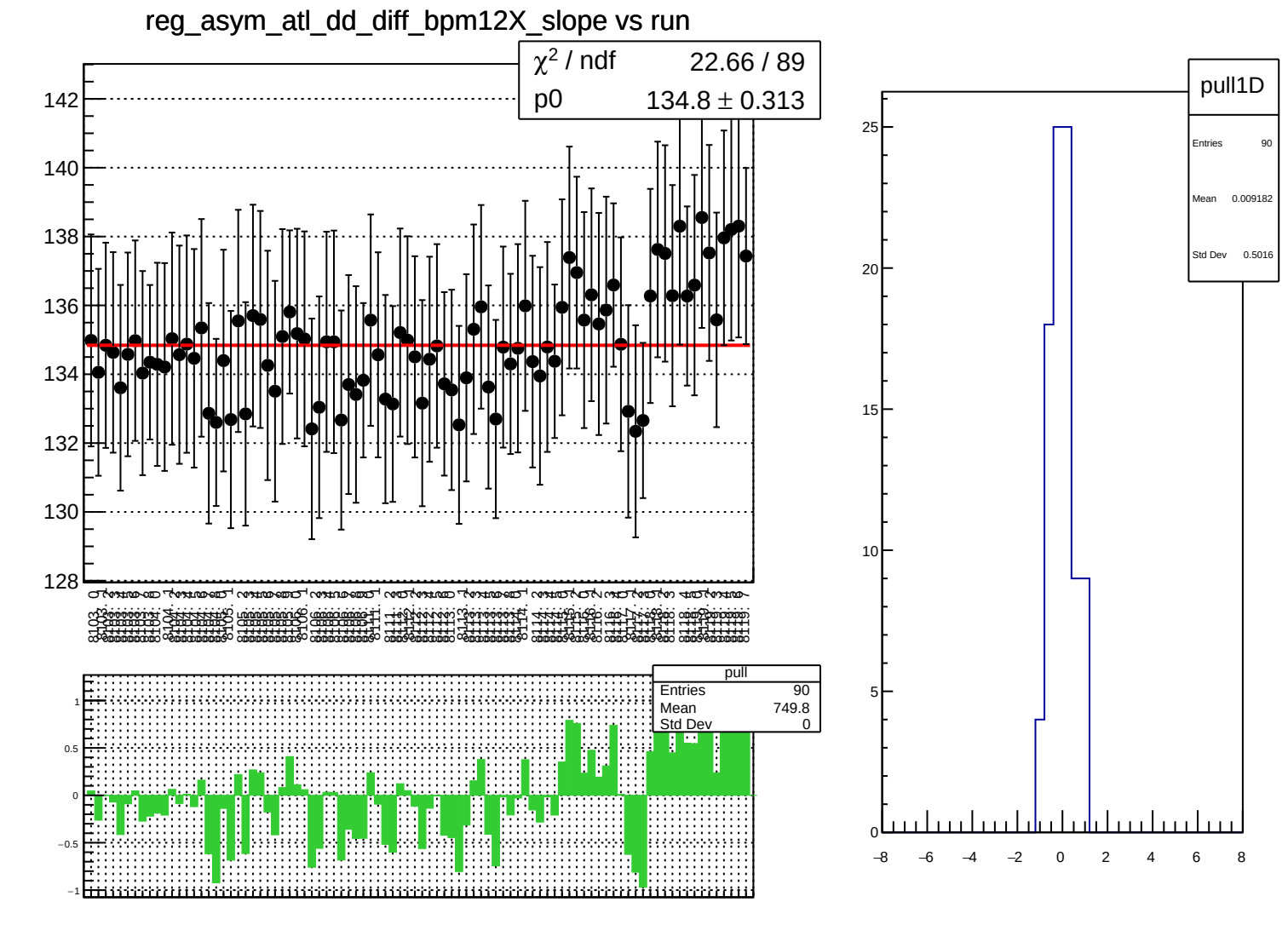

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.33 / 89
p0 −51.39 ± 7.794
pull
Entries 90
Mean 553.5
Std Dev 0

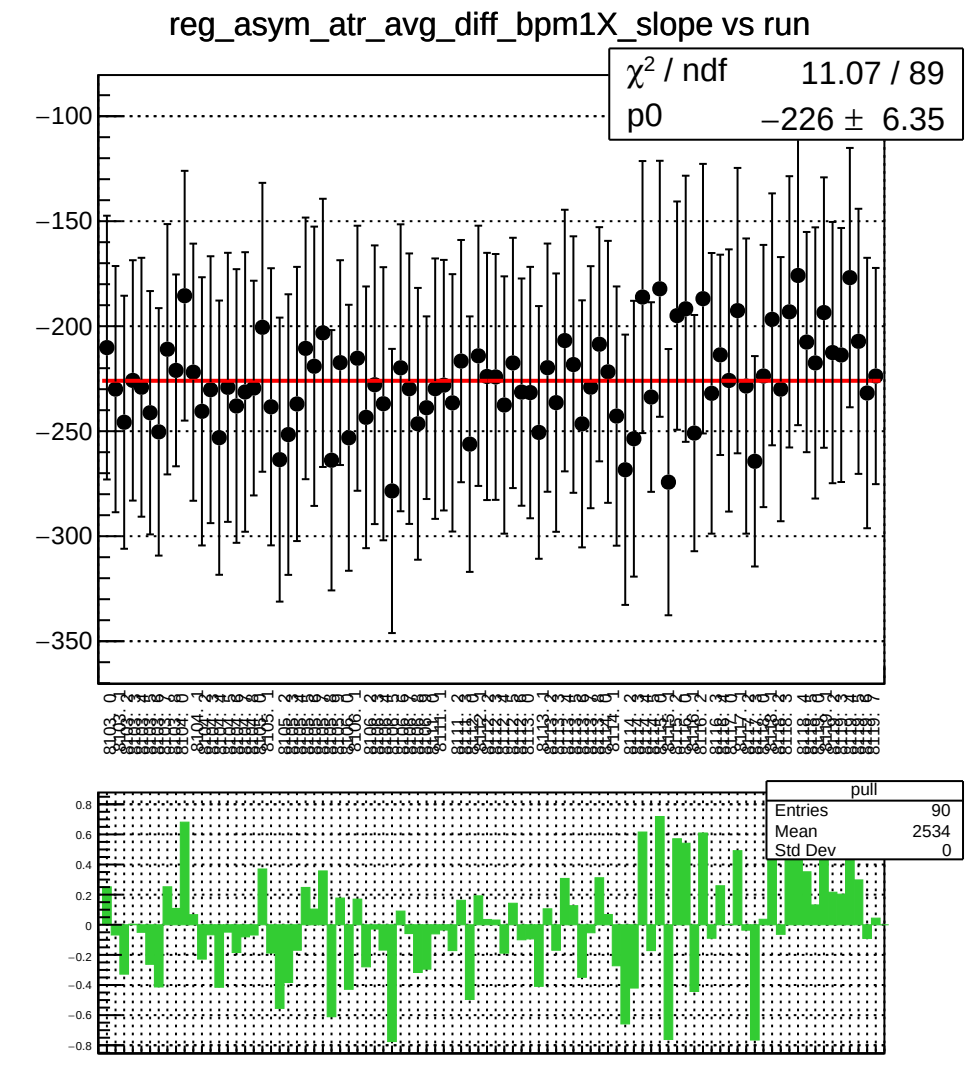

pull1D
Entries 90
Mean 0.005131
Std Dev 0.3387

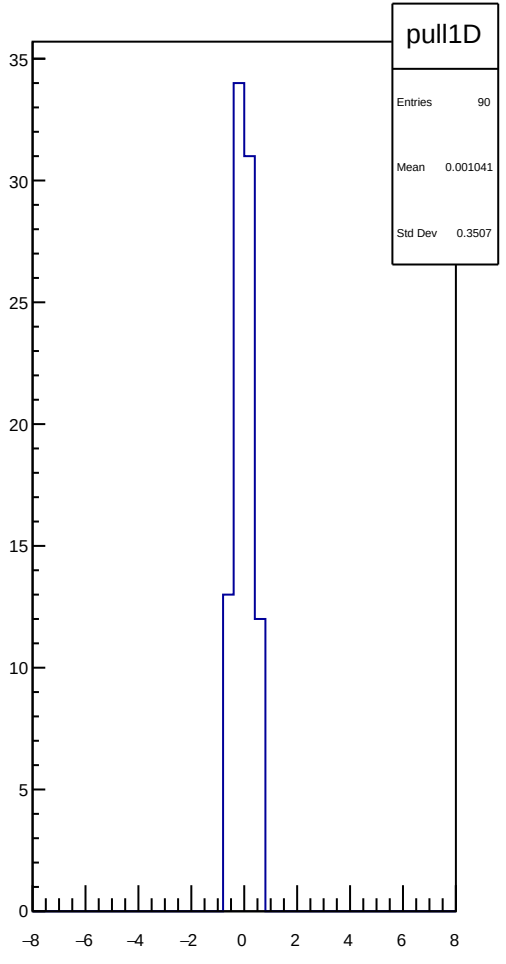

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.871 / 89
p0 −159.4 ± 4.93
pull
Entries 90
Mean 778
Std Dev 0
pull1D
Entries 90
Mean 0.002373
Std Dev 0.3312

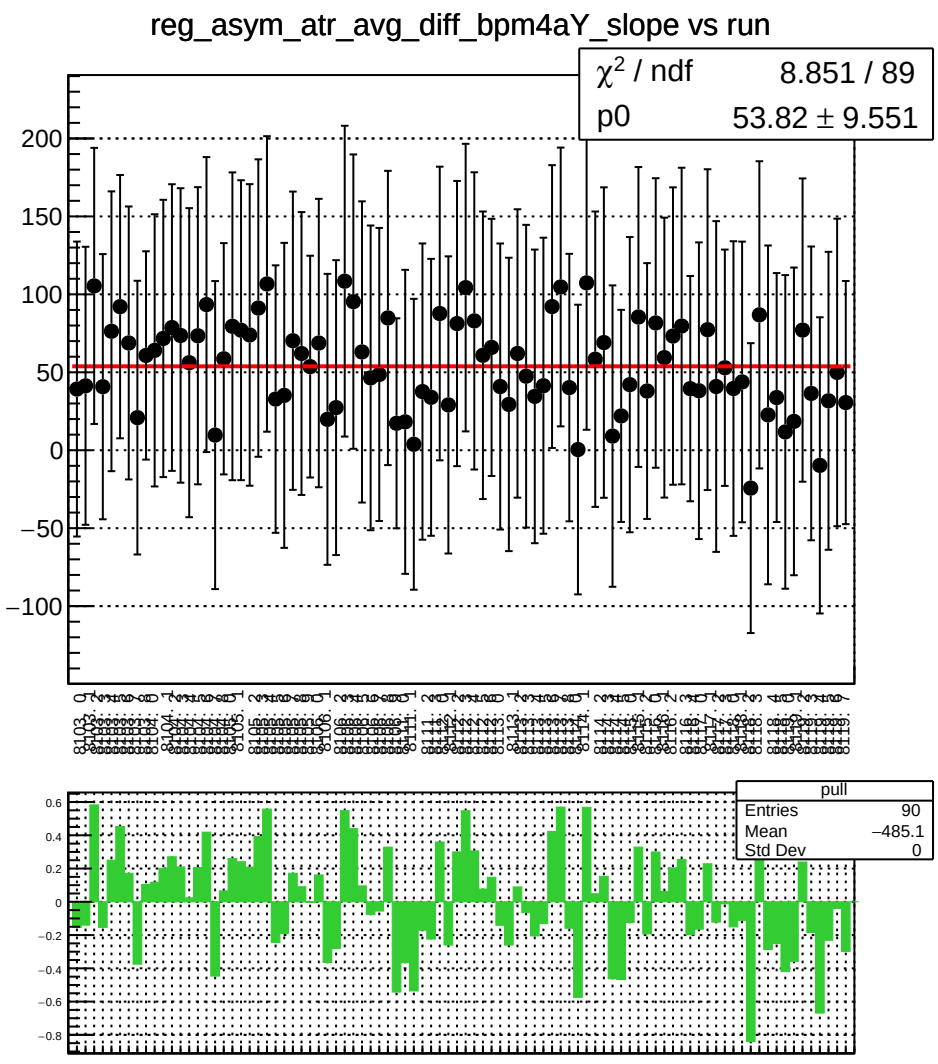

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.22 / 89
p0 −10.08 ± 8.335
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 525.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

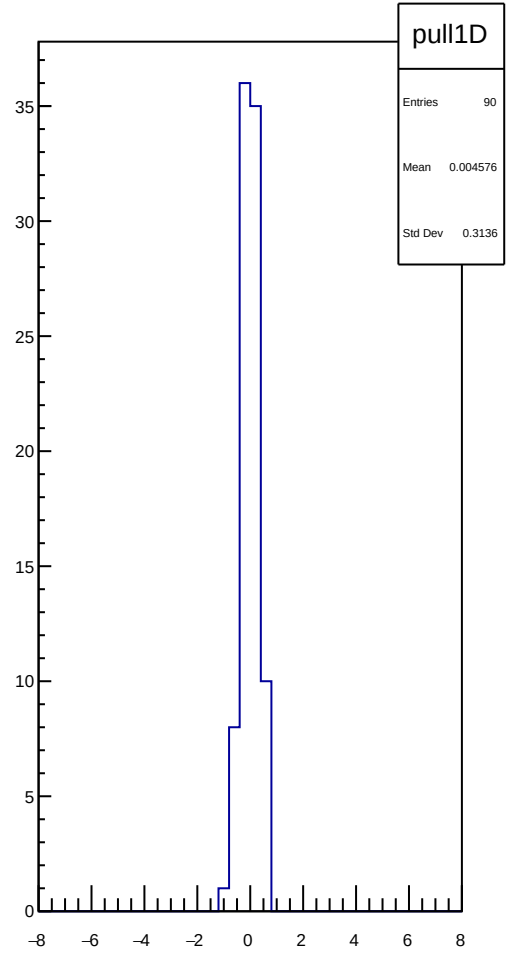

pull1D
Entries 90
Mean −0.004411
Std Dev 0.337
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

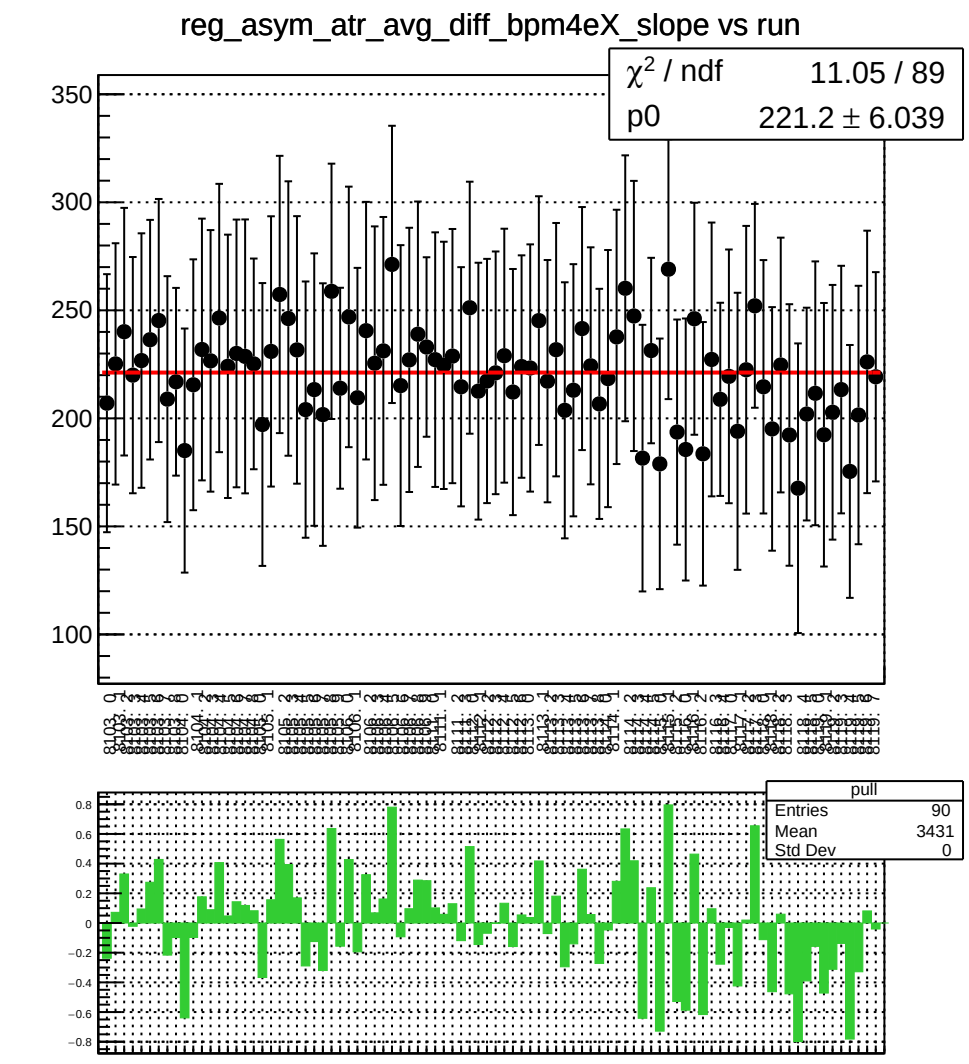

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 22.66 / 89
p0 134.8 ± 0.313
pull
Entries 90
Mean 749.8
Std Dev 0
pull1D
Entries 90
Mean 0.009182
Std Dev 0.5016

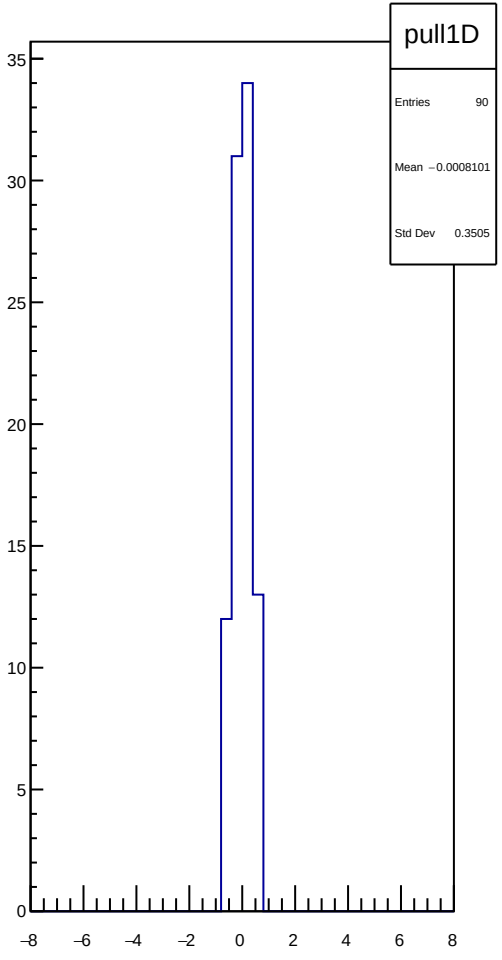

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 11.07 / 89
p0 −226 ± 6.35
−100
−150
−200
−250
−300
−350
pull
Entries 90
Mean 2534
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

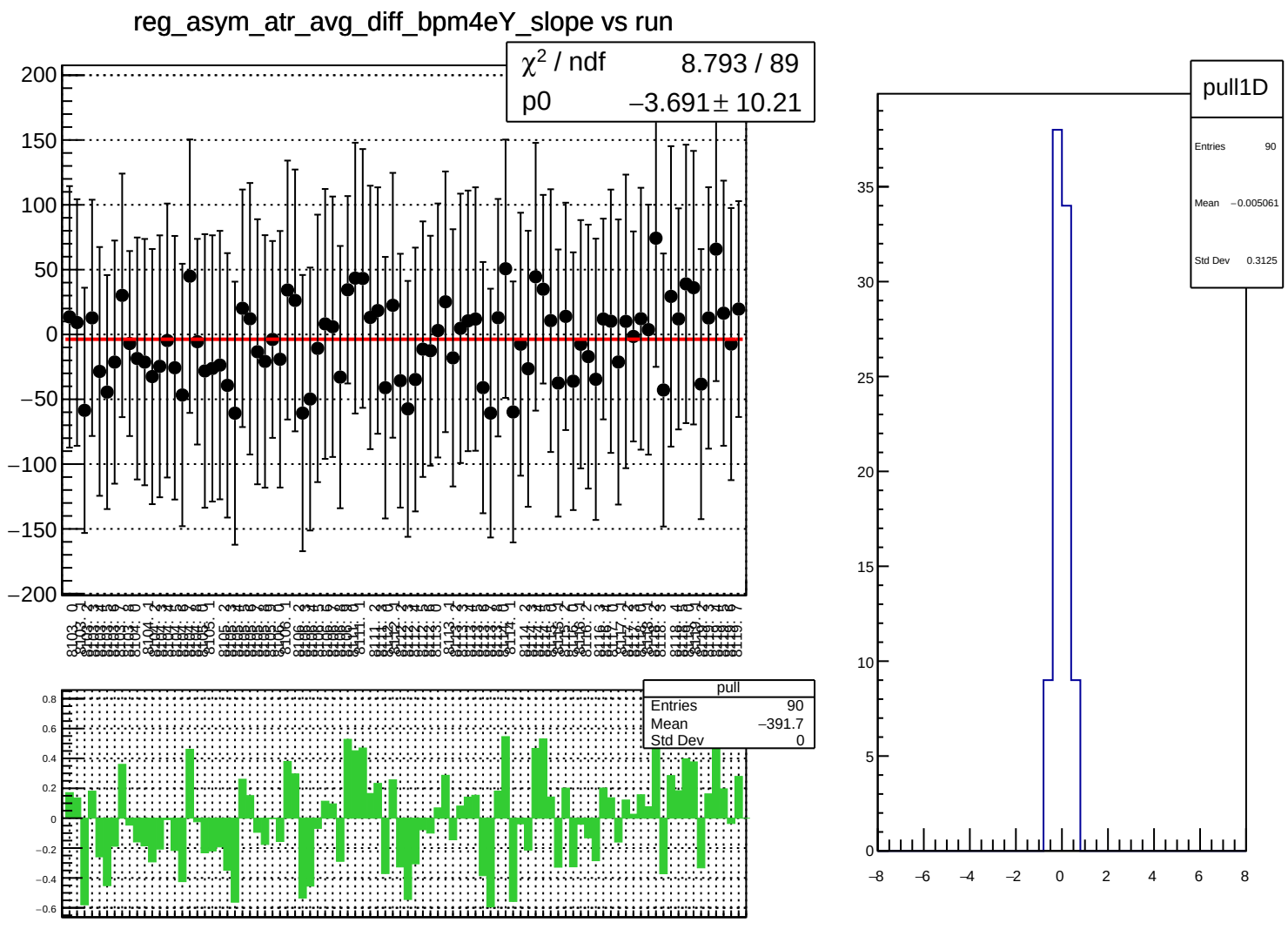

pull1D
Entries 90
Mean 0.001041
Std Dev 0.3507
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

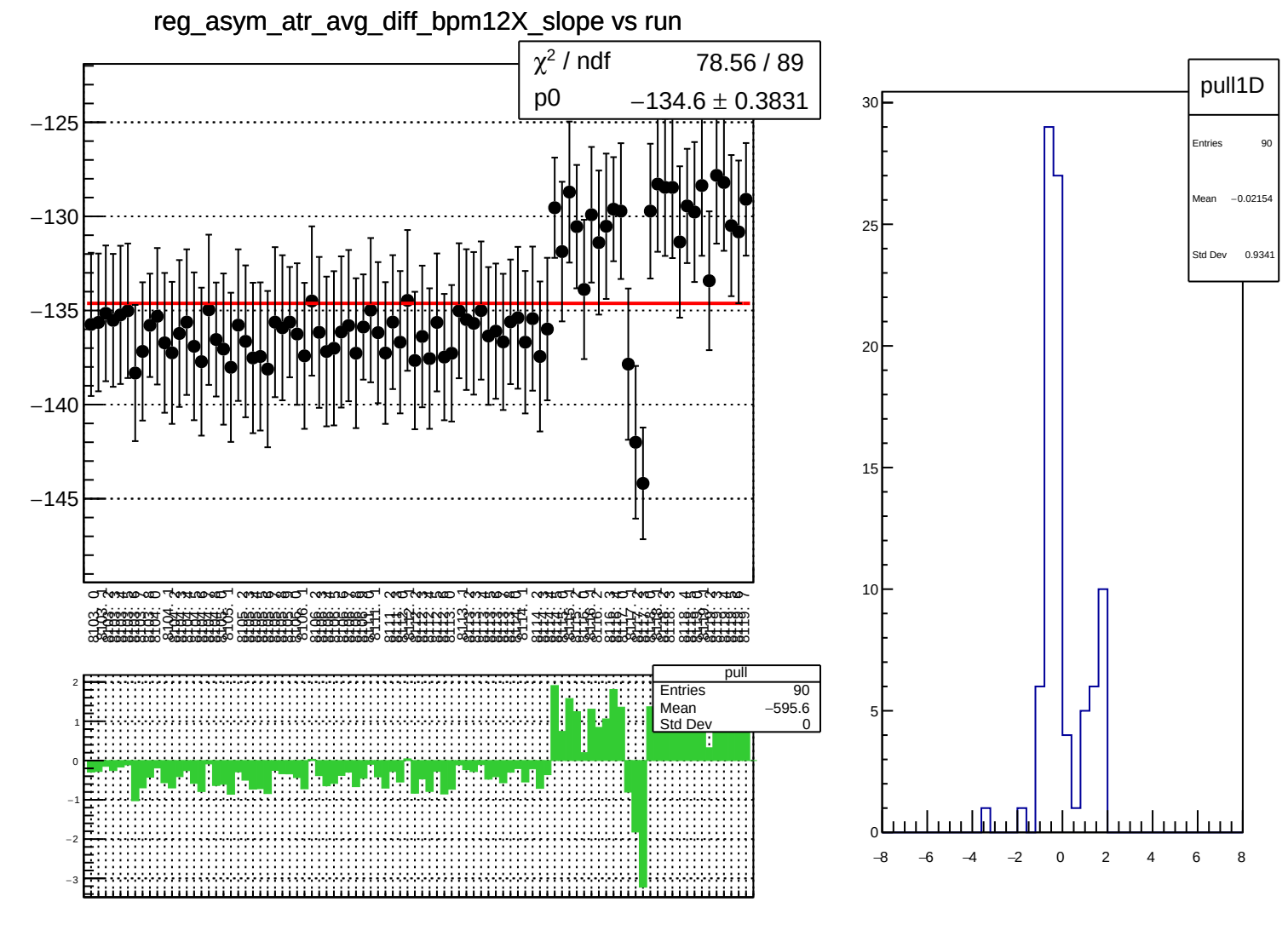

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.851 / 89
p0 53.82 ± 9.551
200
150
100
50
0
−50
−100
pull
Entries 90
Mean −485.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

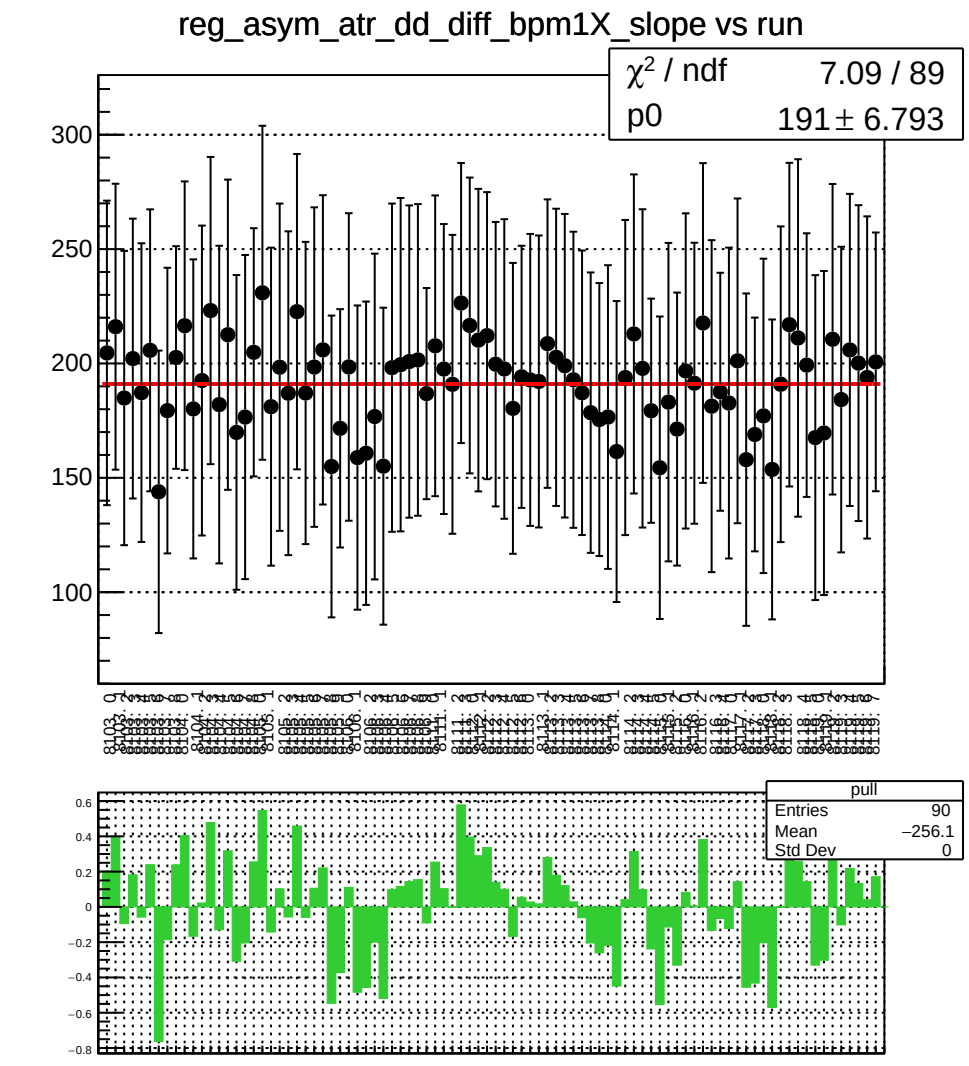

pull1D
Entries 90
Mean 0.004576
Std Dev 0.3136
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

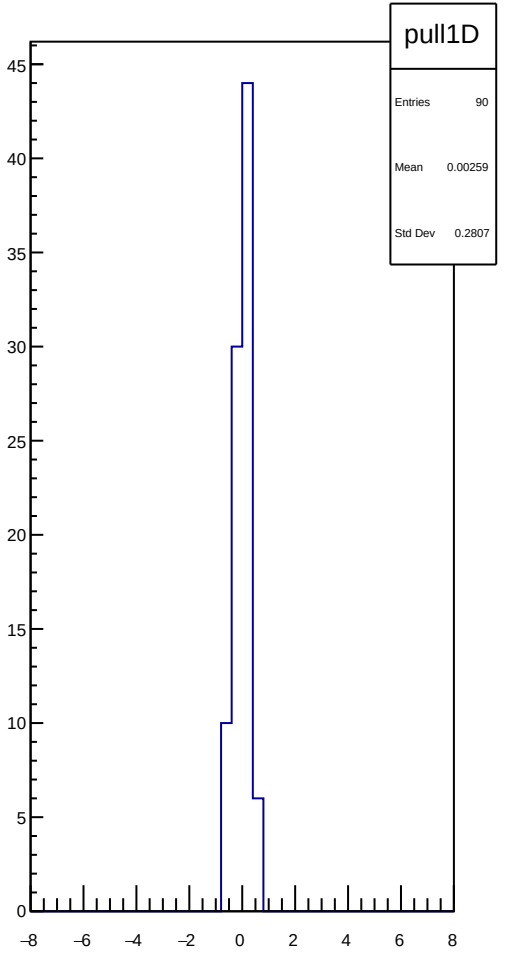

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.05 / 89
p0 221.2 ± 6.039
pull
Entries 90
Mean 3431
Std Dev 0

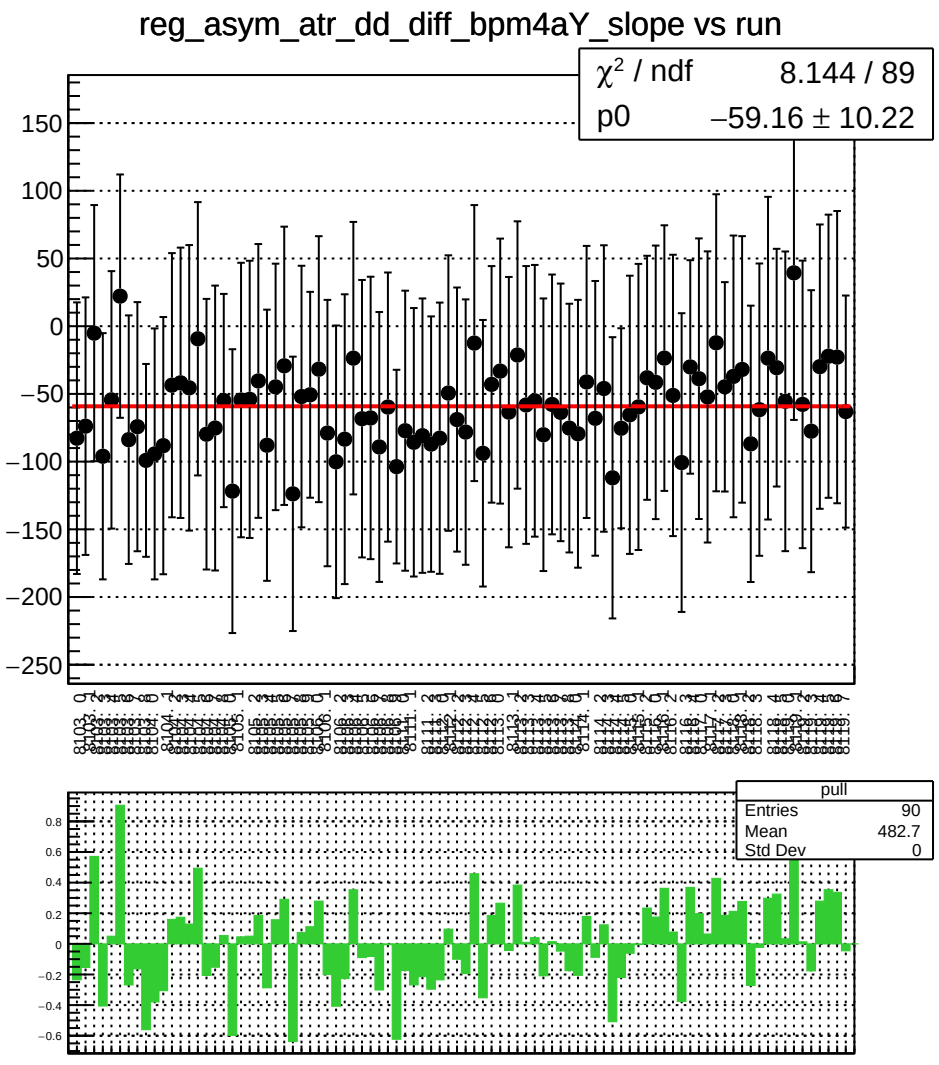

pull1D
Entries 90
Mean −0.0008101
Std Dev 0.3505

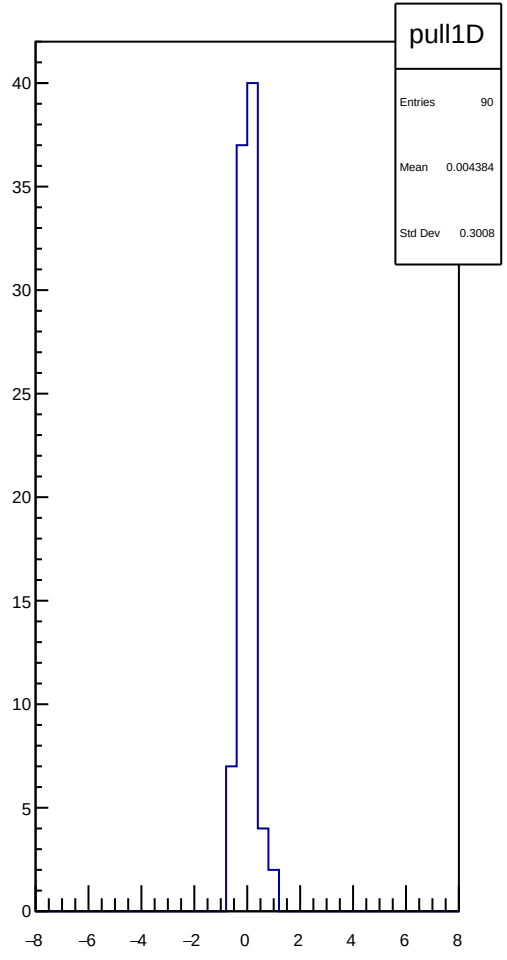

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.793 / 89
p0 −3.691 ± 10.21
pull
Entries 90
Mean −391.7
Std Dev 0
pull1D
Entries 90
Mean −0.005061
Std Dev 0.3125

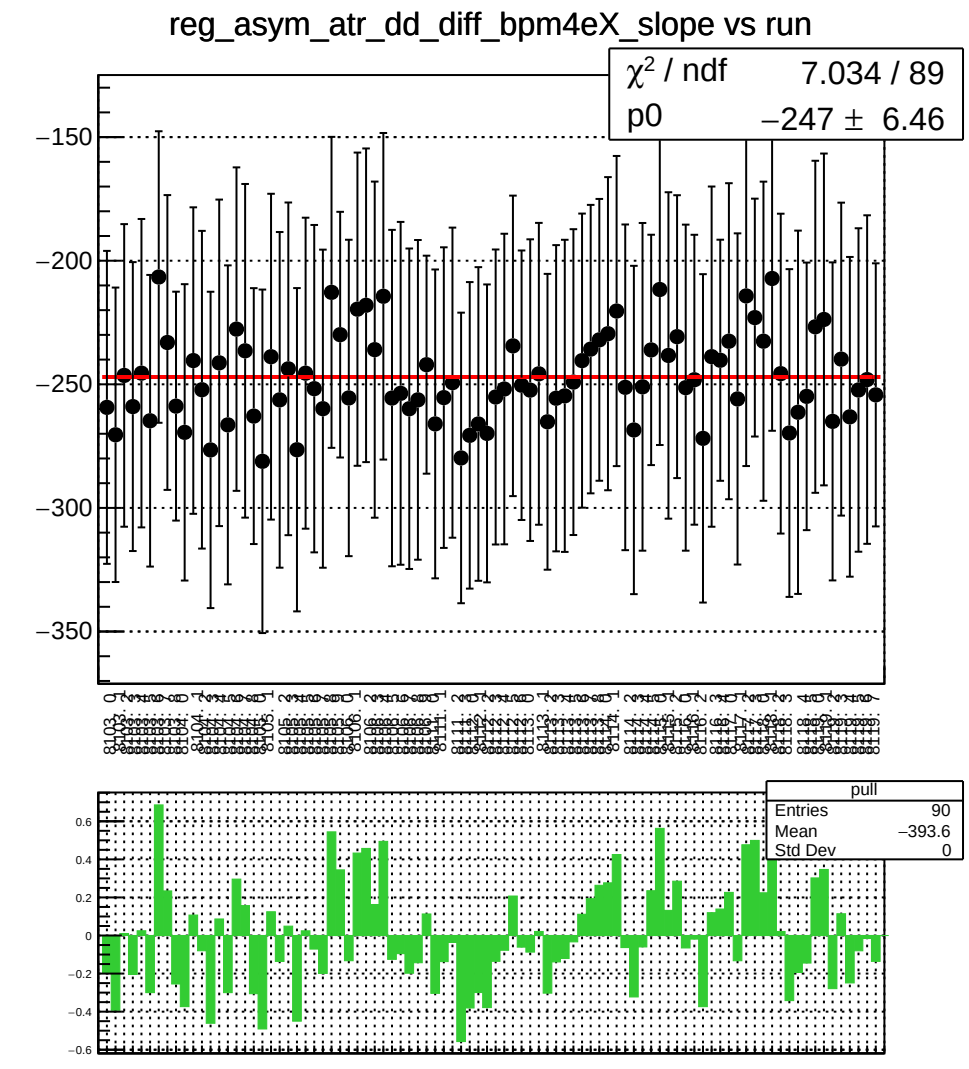

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 78.56 / 89
p0 −134.6 ± 0.3831
−125
−130
−135
−140
−145
pull
Entries 90
Mean −595.6
Std Dev 0
pull1D
Entries 90
Mean −0.02154
Std Dev 0.9341

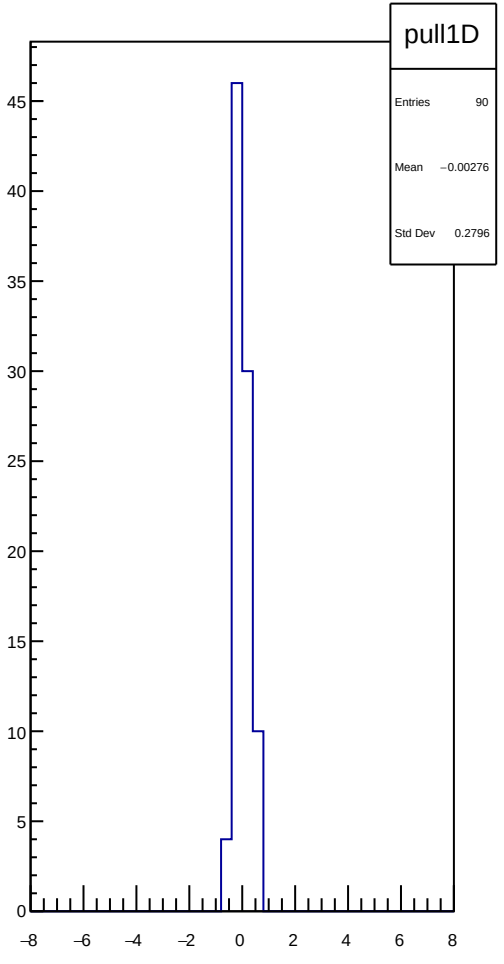

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 7.09 / 89
p0 191 ± 6.793
300
250
200
150
100
pull
Entries 90
Mean −256.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

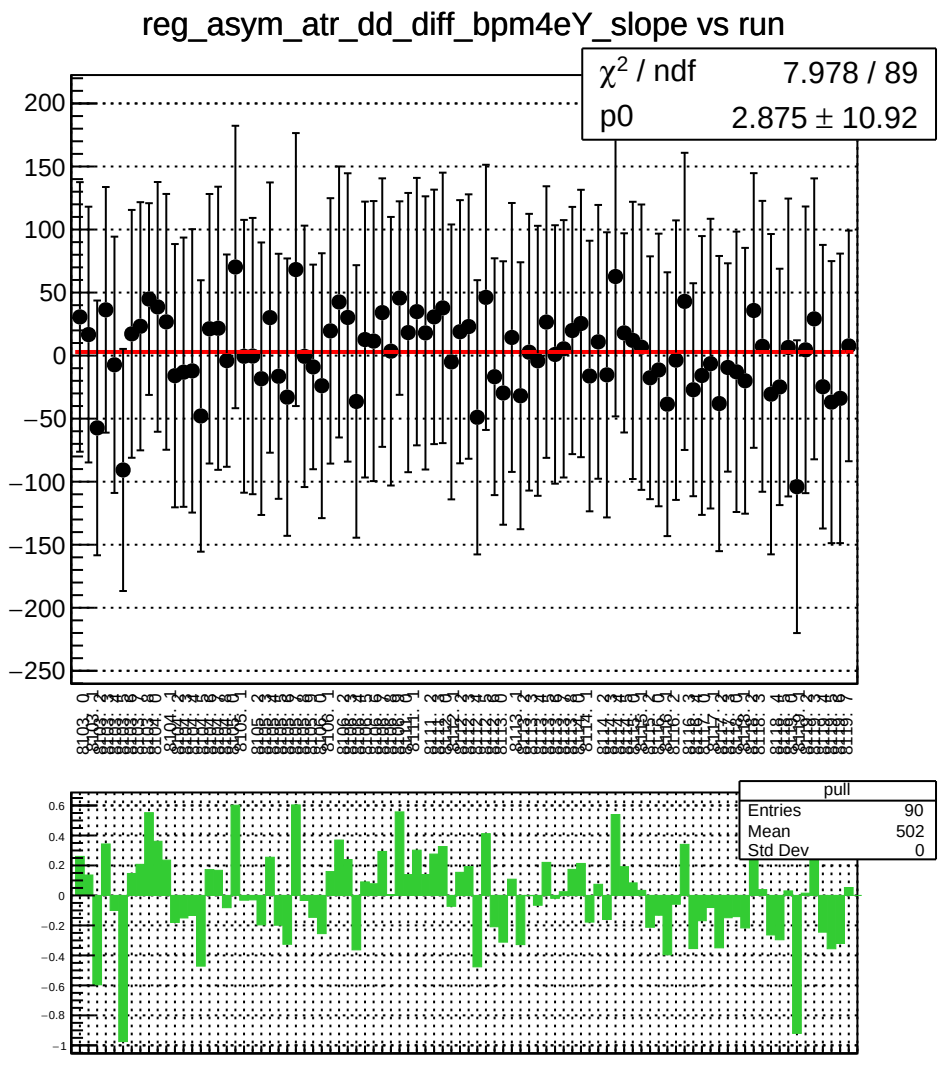

pull1D
Entries 90
Mean 0.00259
Std Dev 0.2807
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

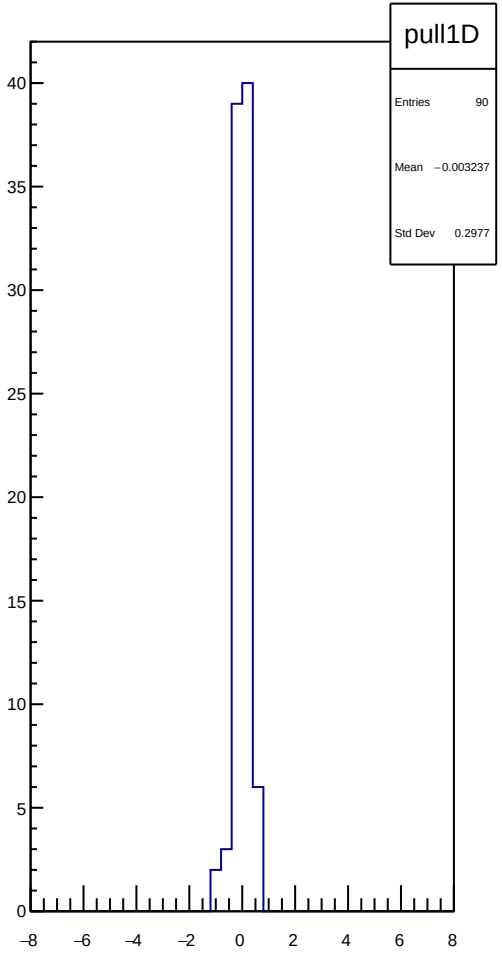

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.144 / 89
p0 −59.16 ± 10.22
pull
Entries 90
Mean 482.7
Std Dev 0

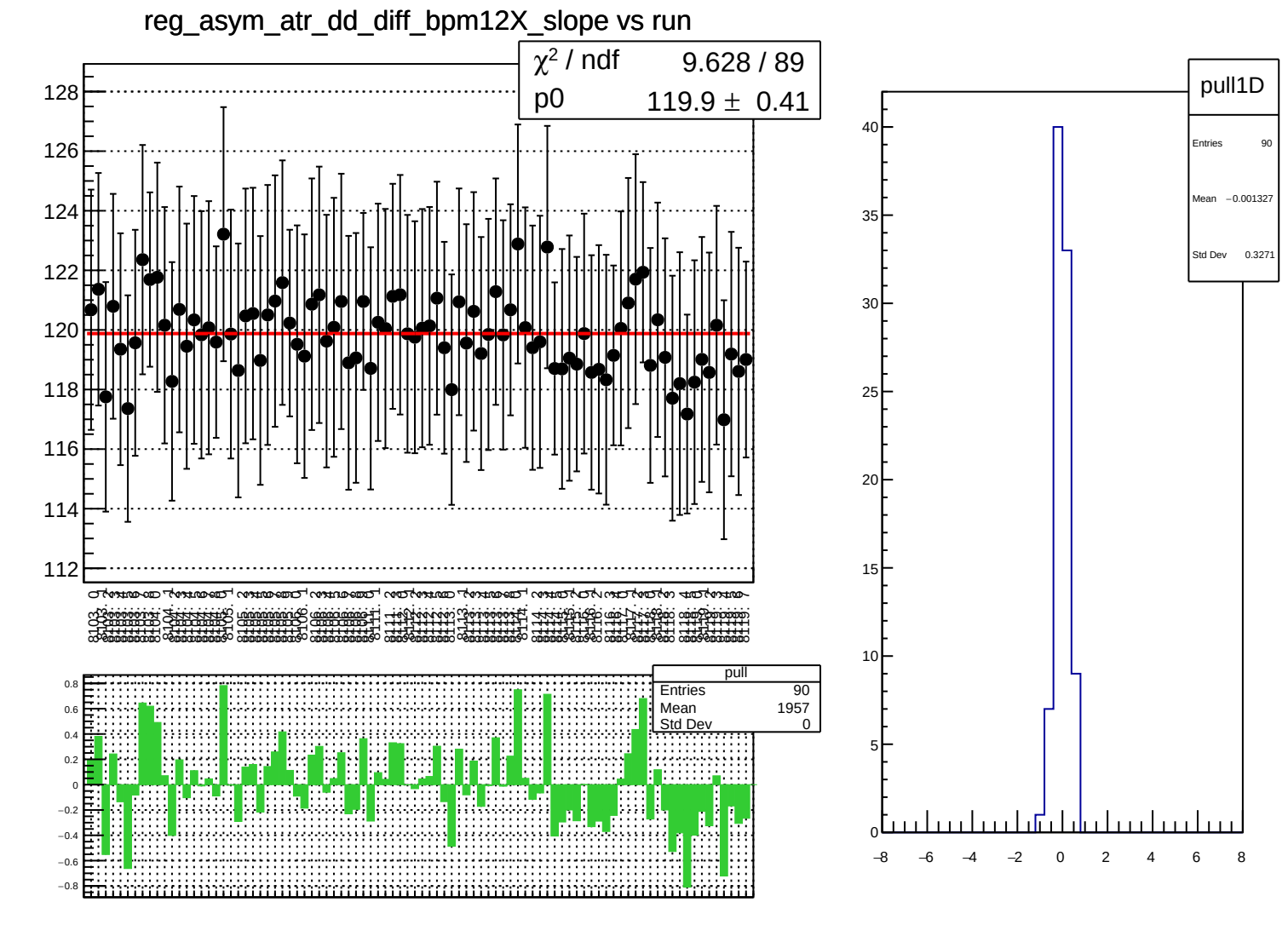

pull1D
Entries 90
Mean 0.004384
Std Dev 0.3008

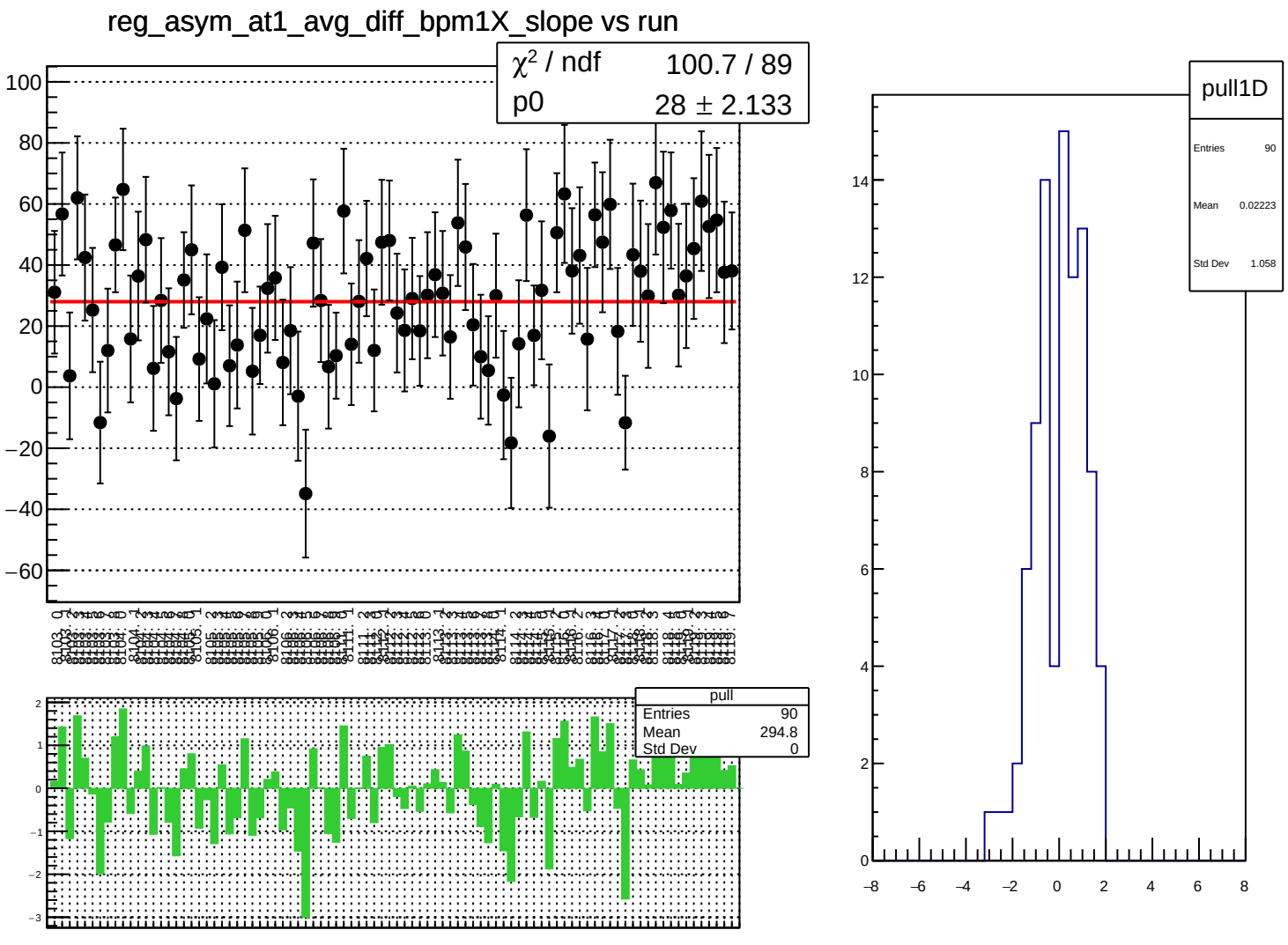

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.034 / 89
p0 −247 ± 6.46
−150
−200
−250
−300
−350
pull
Entries 90
Mean −393.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

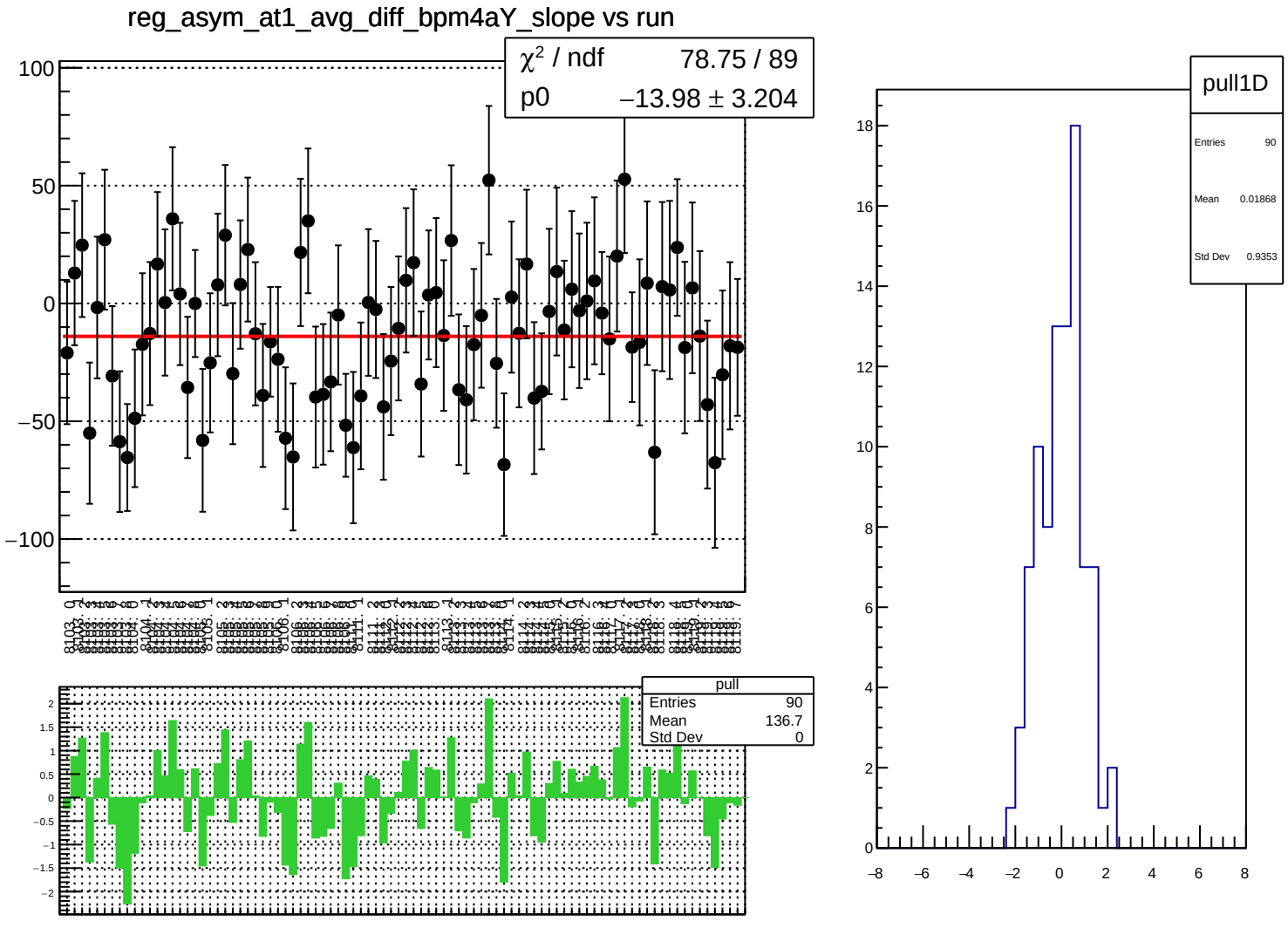

pull1D
Entries 90
Mean −0.00276
Std Dev 0.2796
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

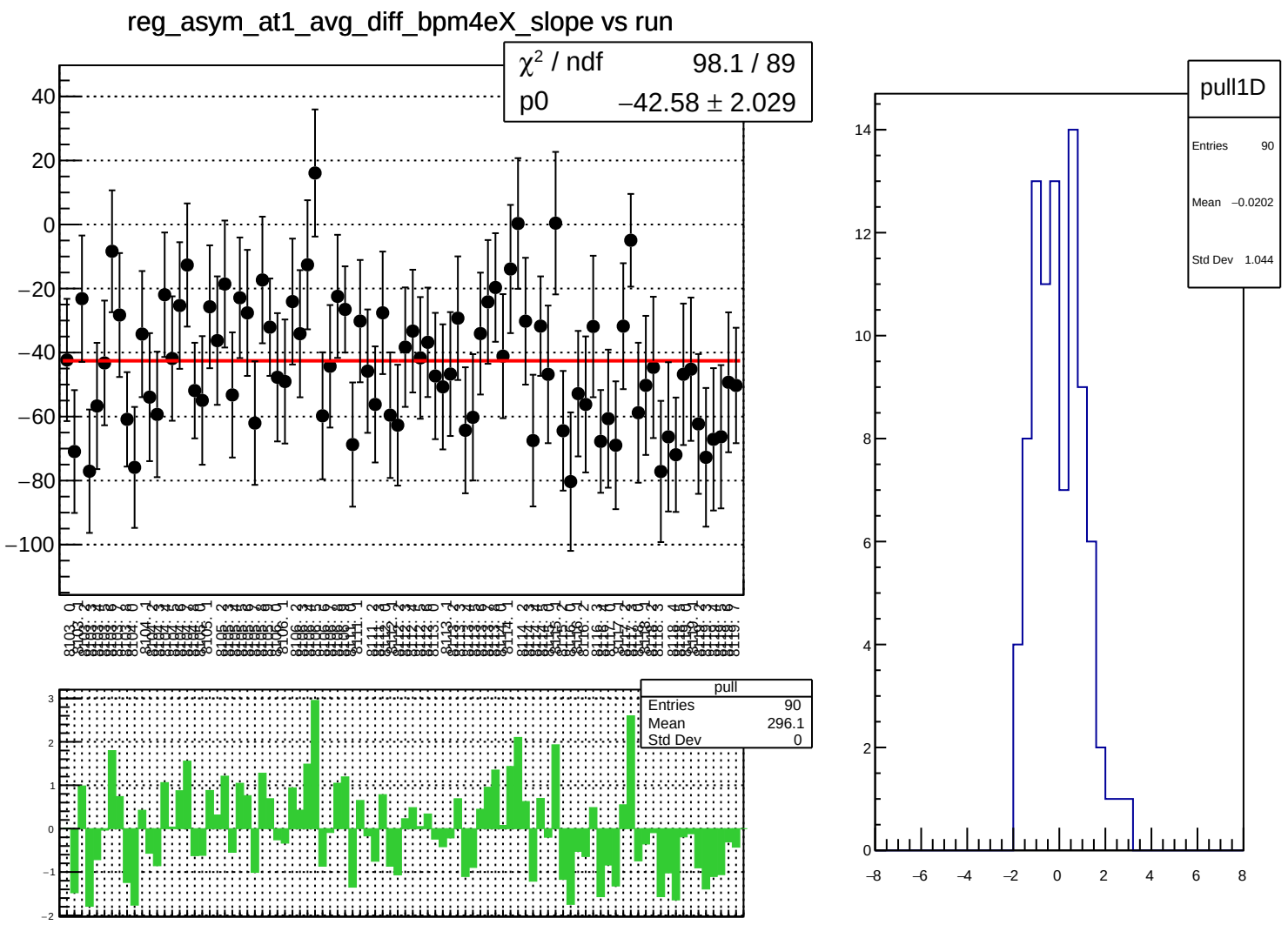

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.978 / 89
p0 2.875 ± 10.92
pull
Entries 90
Mean 502
Std Dev 0

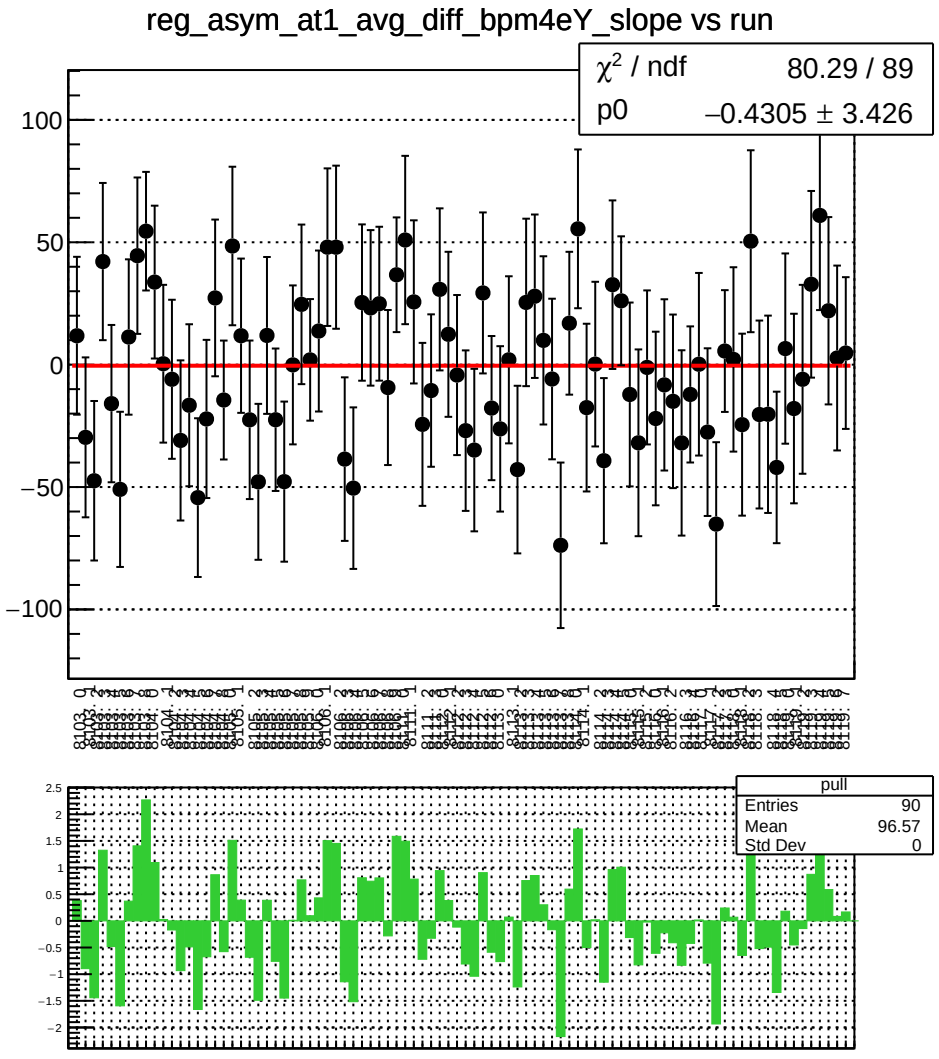

pull1D
Entries 90
Mean −0.003237
Std Dev 0.2977

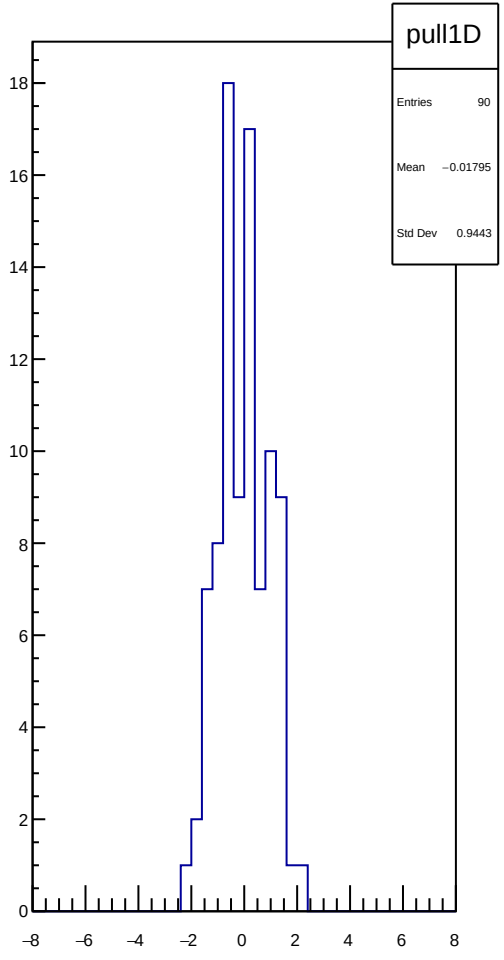

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 9.628 / 89
p0 119.9 ± 0.41
pull
Entries 90
Mean 1957
Std Dev 0
pull1D
Entries 90
Mean −0.001327
Std Dev 0.3271

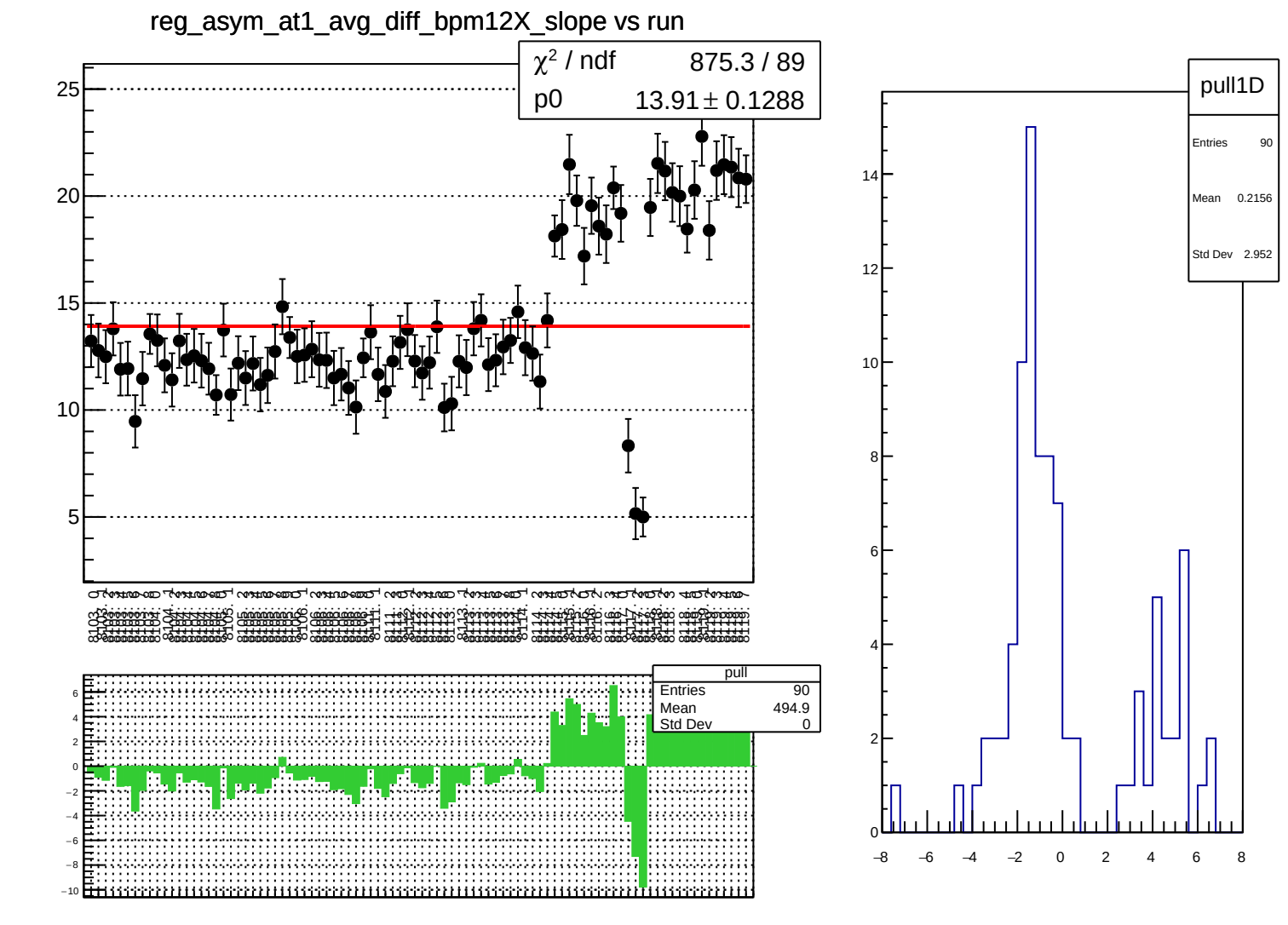

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 100.7 / 89
p0 28 ± 2.133
pull
Entries 90
Mean 294.8
Std Dev 0
pull1D
Entries 90
Mean 0.02223
Std Dev 1.058

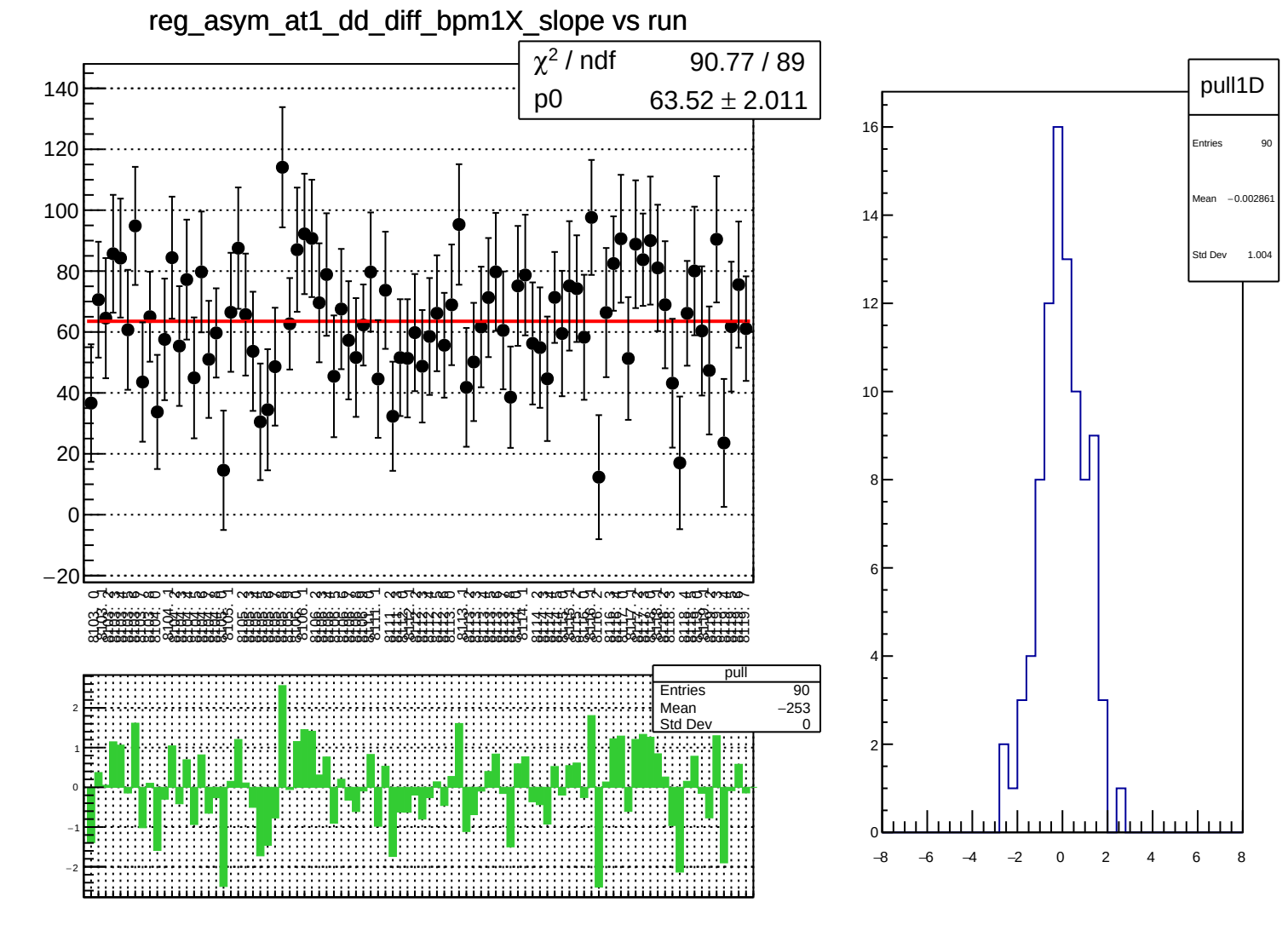

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.75 / 89
p0 −13.98 ± 3.204
100
50
0
−50
−100
pull
Entries 90
Mean 136.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean 0.01868
Std Dev 0.9353
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

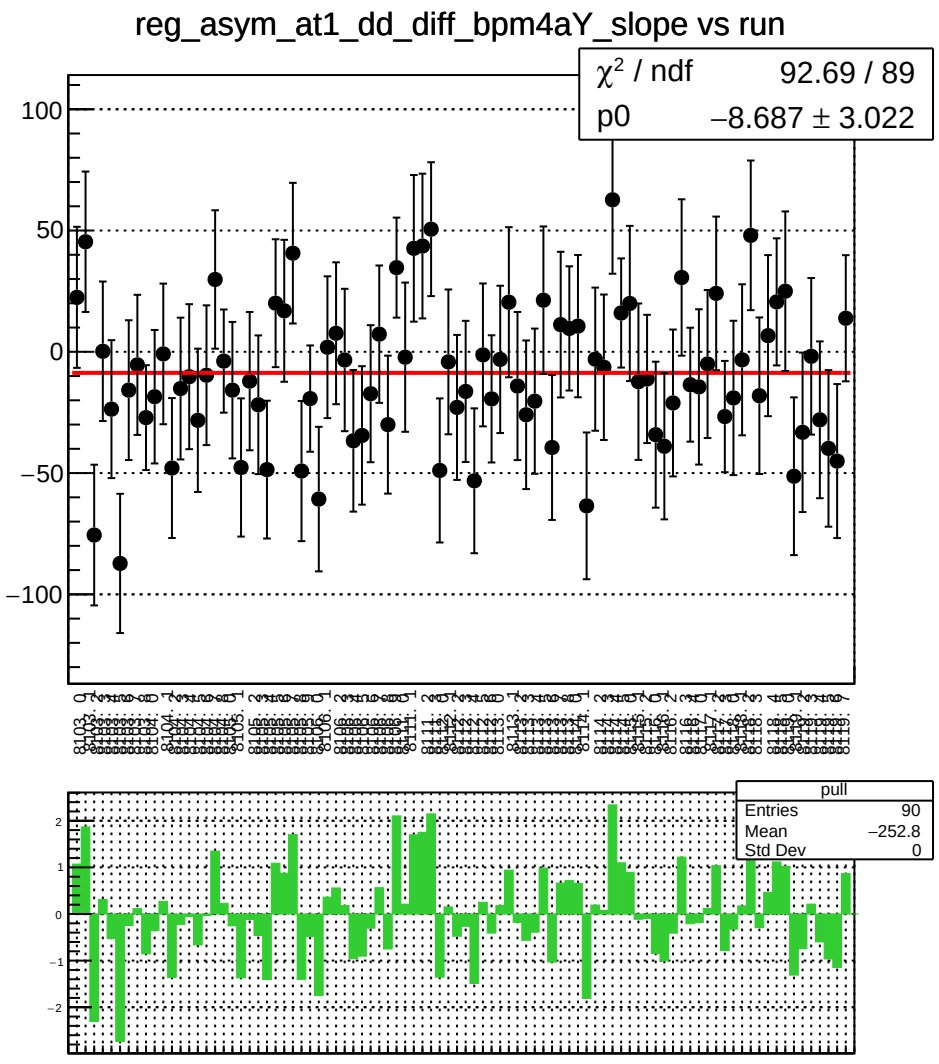

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.1 / 89
p0 −42.58 ± 2.029
pull
Entries 90
Mean 296.1
Std Dev 0
pull1D
Entries 90
Mean −0.0202
Std Dev 1.044

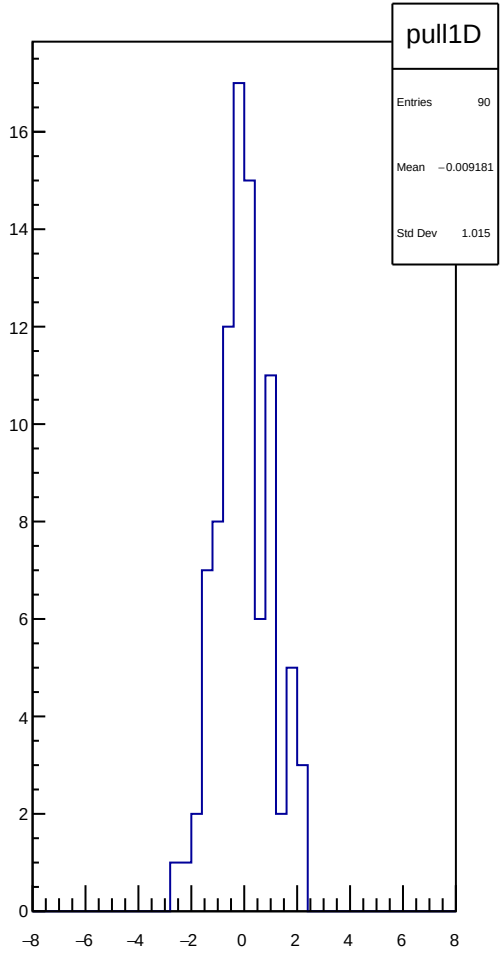

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.29 / 89
p0 −0.4305 ± 3.426
100
50
0
−50
−100
pull
Entries 90
Mean 96.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

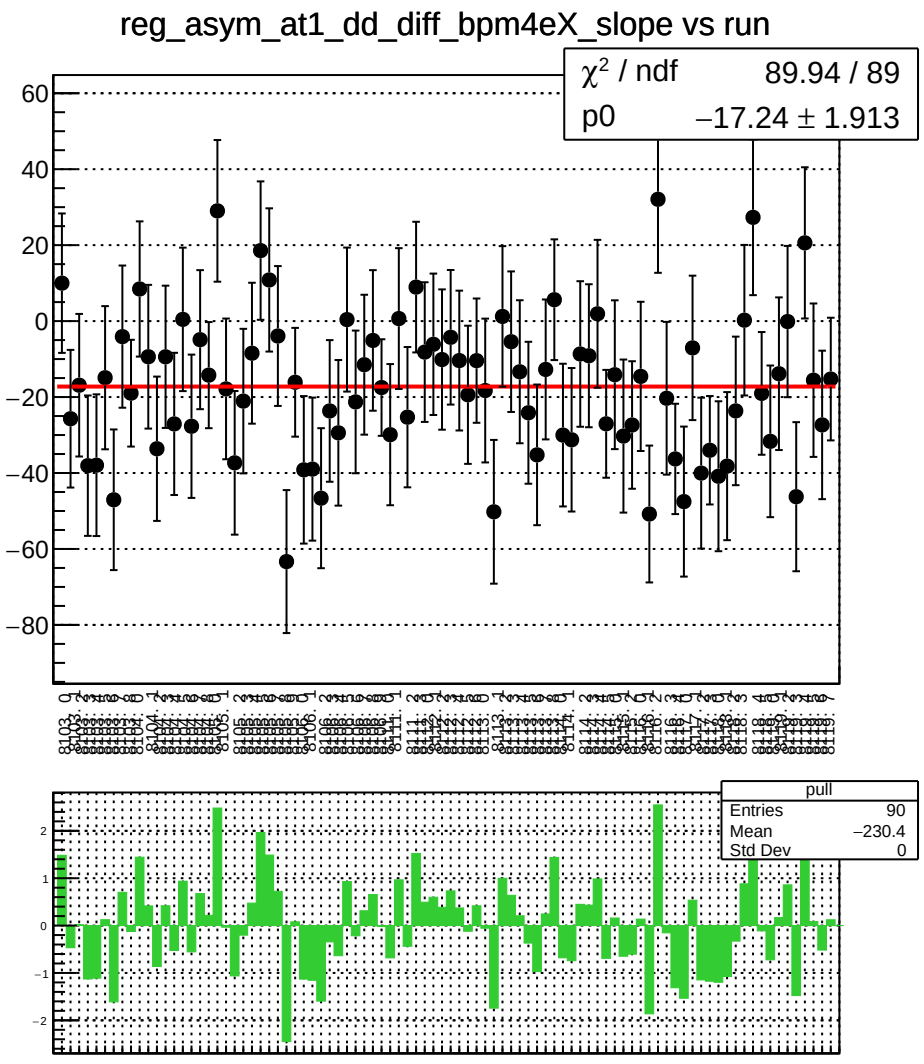

pull1D
Entries 90
Mean −0.01795
Std Dev 0.9443
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

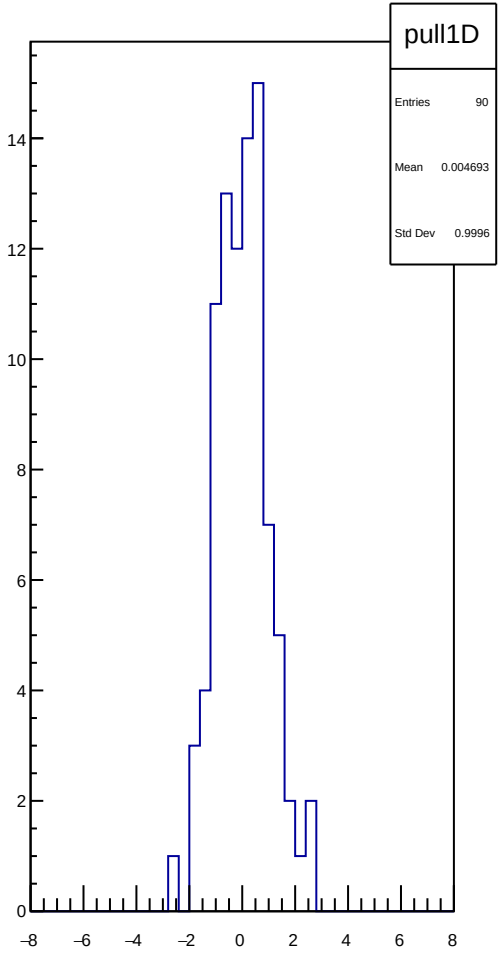

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 875.3 / 89
p0 13.91 ± 0.1288
pull
Entries 90
Mean 494.9
Std Dev 0
pull1D
Entries 90
Mean 0.2156
Std Dev 2.952

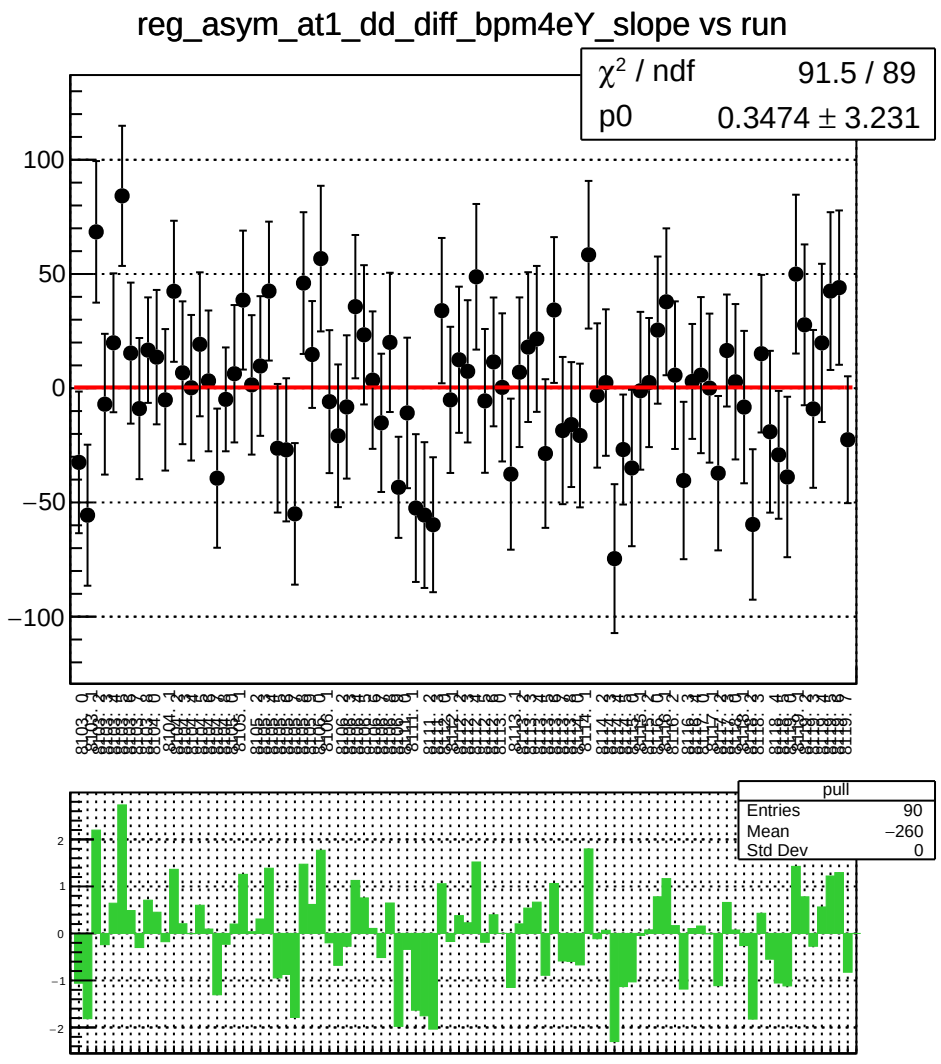

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 90.77 / 89
p0 63.52 ± 2.011
pull
Entries 90
Mean −253
Std Dev 0
pull1D
Entries 90
Mean −0.002861
Std Dev 1.004

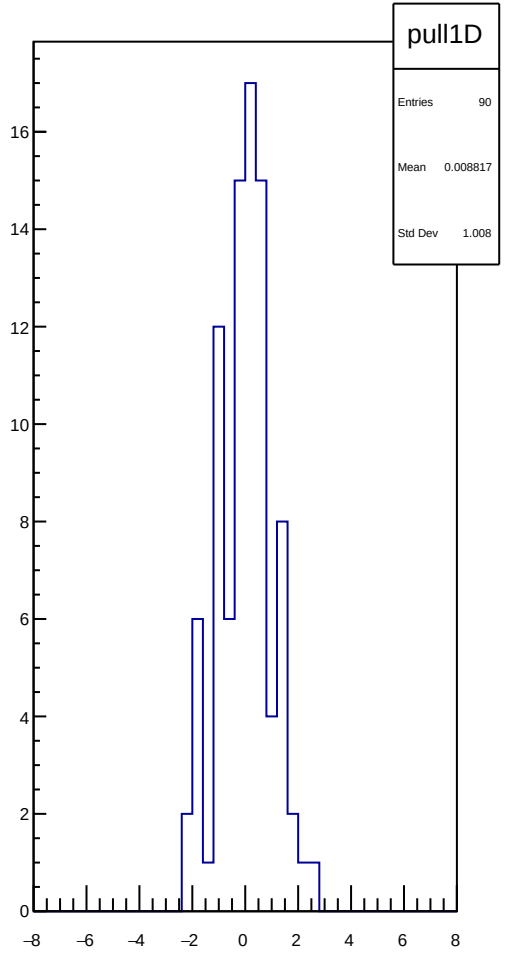

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.69 / 89
p0 −8.687 ± 3.022
100
50
0
−50
−100
pull
Entries 90
Mean −252.8
Std Dev 0
2
1
0
−1
−2

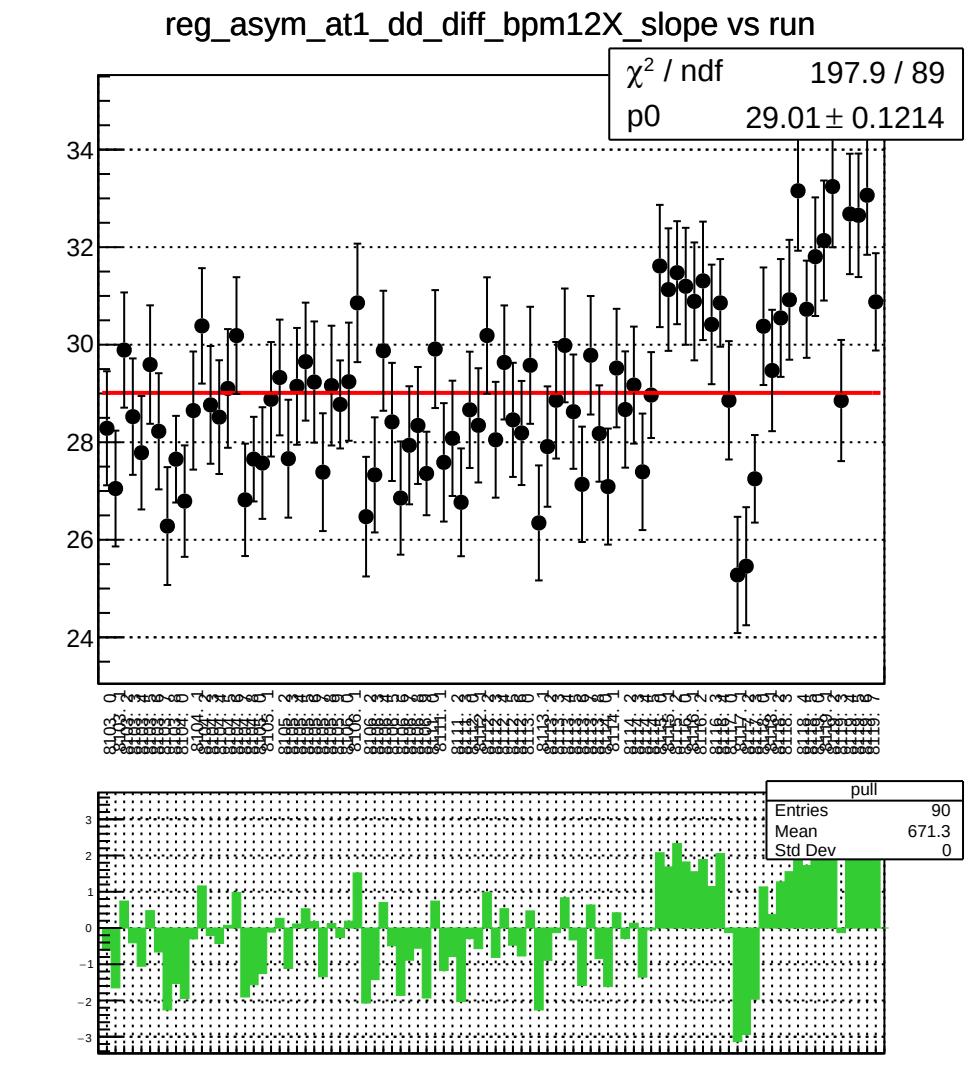

pull1D
Entries 90
Mean −0.009181
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

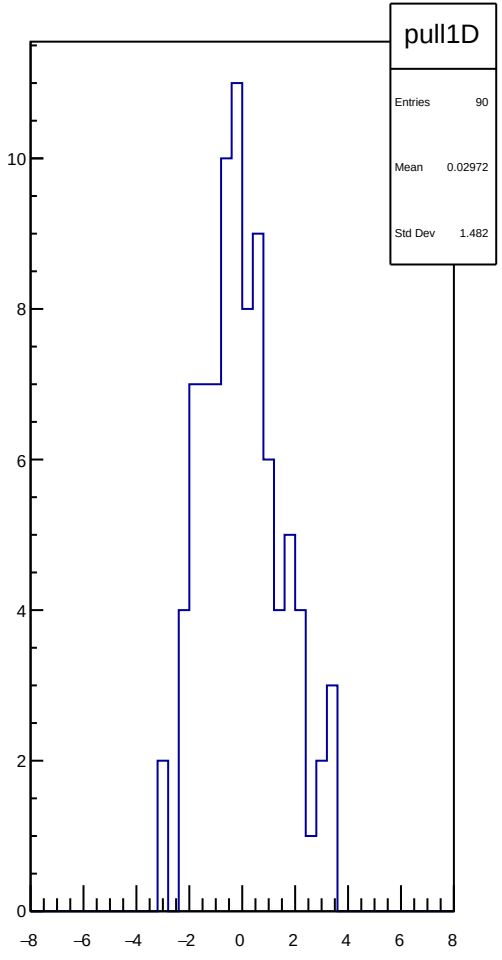

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.94 / 89
p0 −17.24 ± 1.913
pull
Entries 90
Mean −230.4
Std Dev 0

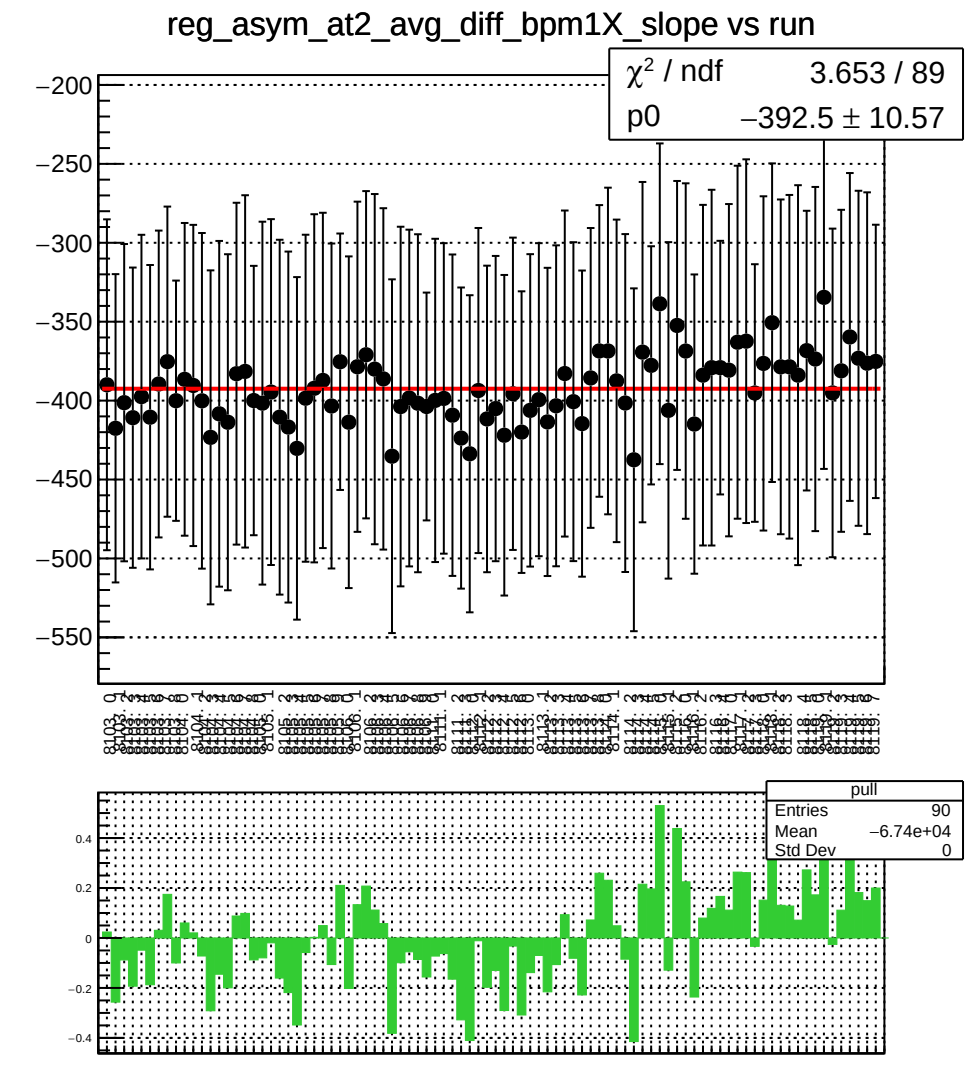

pull1D
Entries 90
Mean 0.004693
Std Dev 0.9996

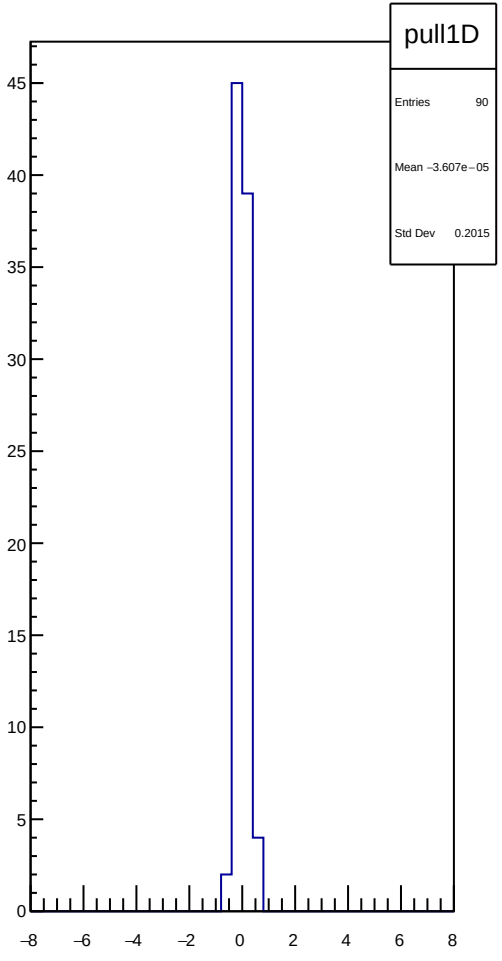

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.5 / 89
p0 0.3474 ± 3.231
100
50
0
−50
−100
pull
Entries 90
Mean −260
Std Dev 0
2
1
0
−1
−2

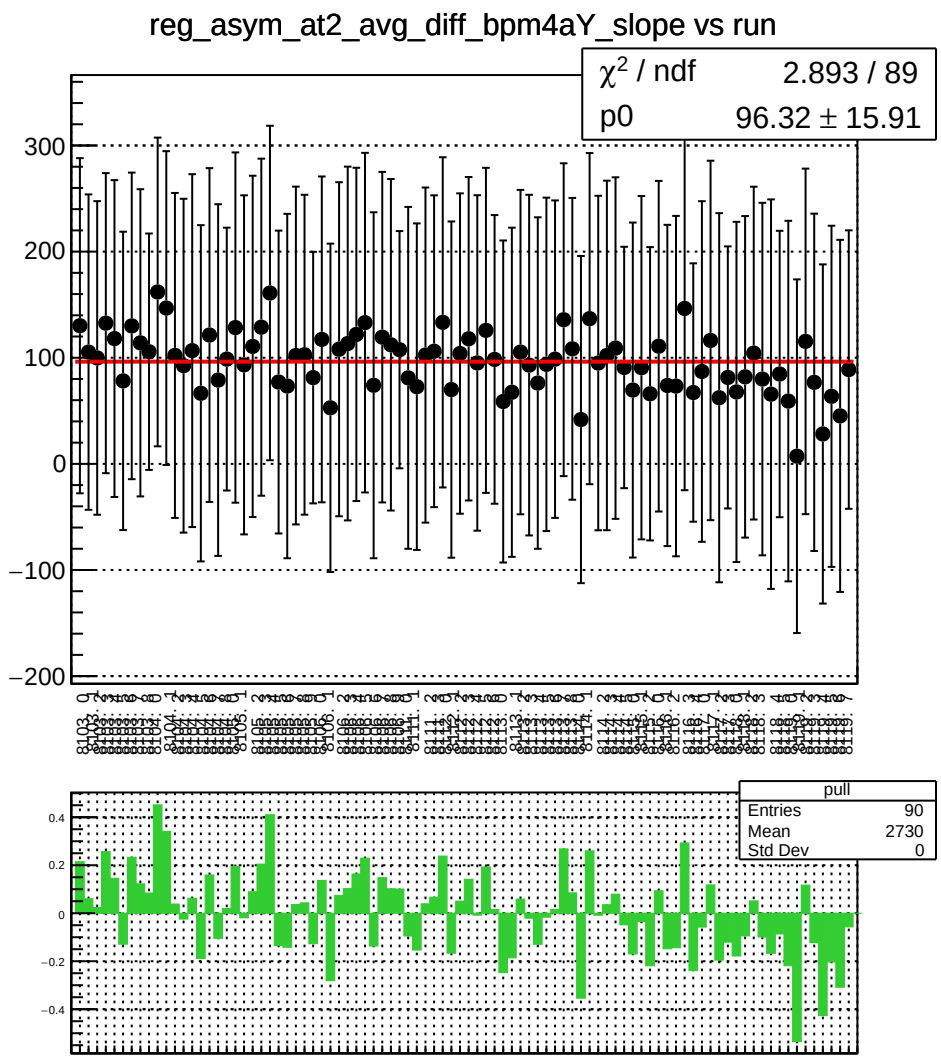

pull1D
Entries 90
Mean 0.008817
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

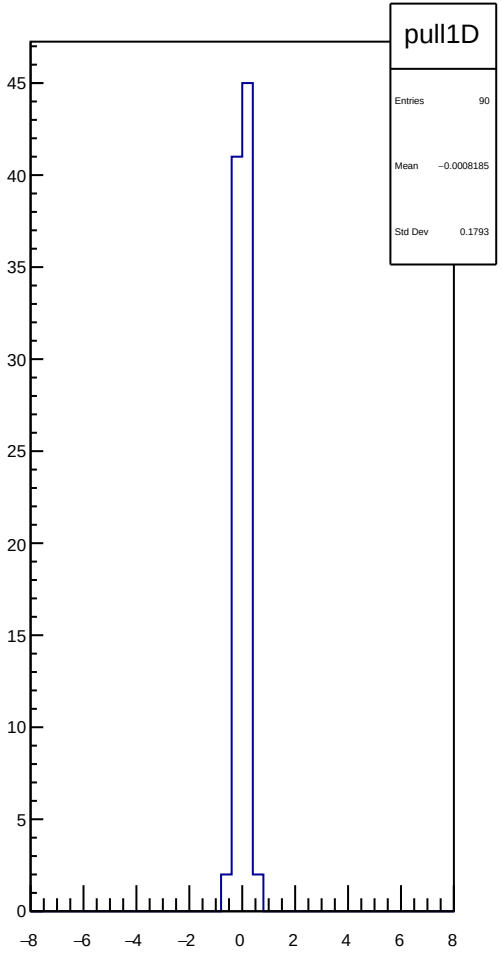

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 197.9 / 89
p0 29.01 ± 0.1214
pull
Entries 90
Mean 671.3
Std Dev 0

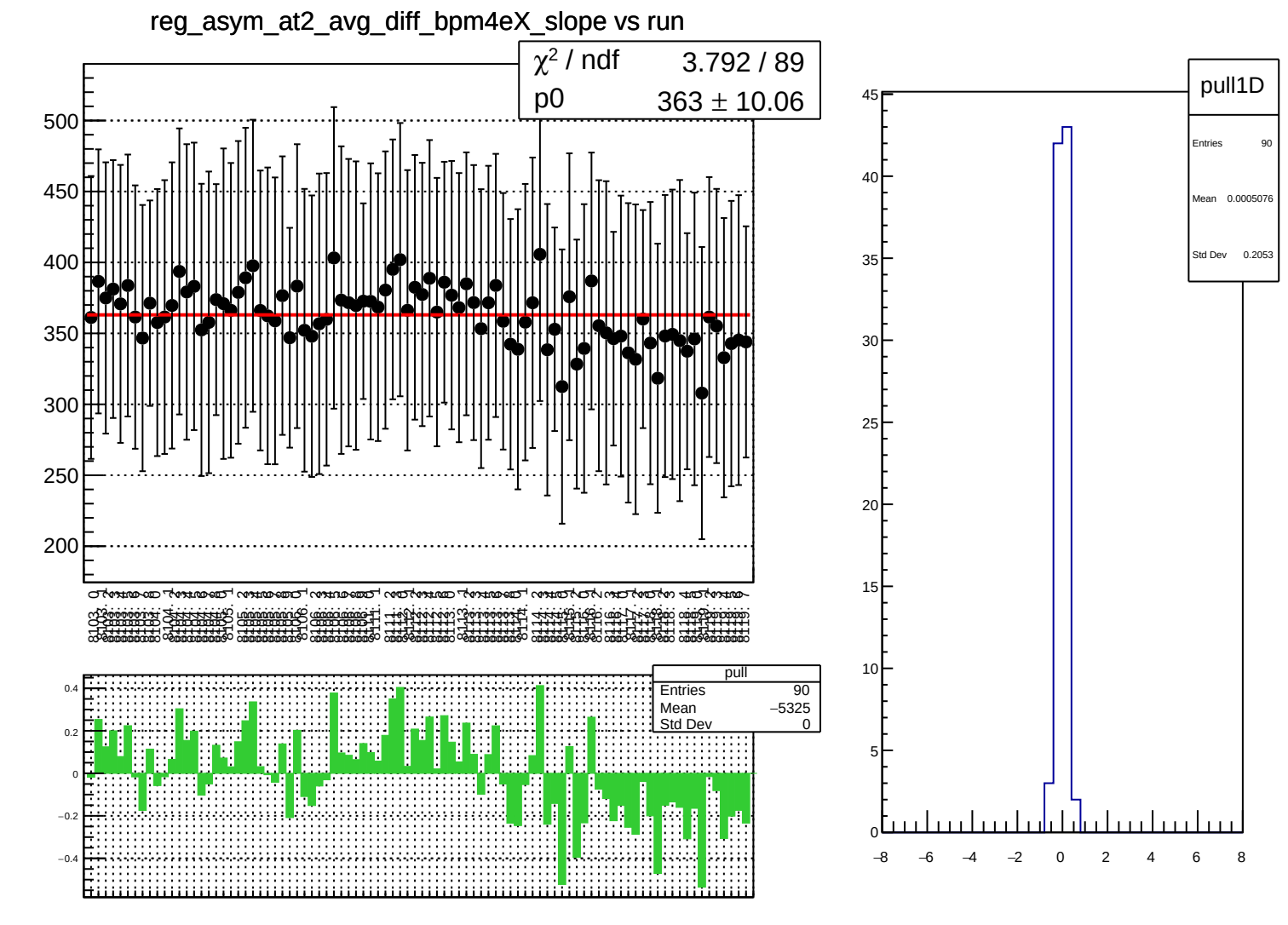

pull1D
Entries 90
Mean 0.02972
Std Dev 1.482

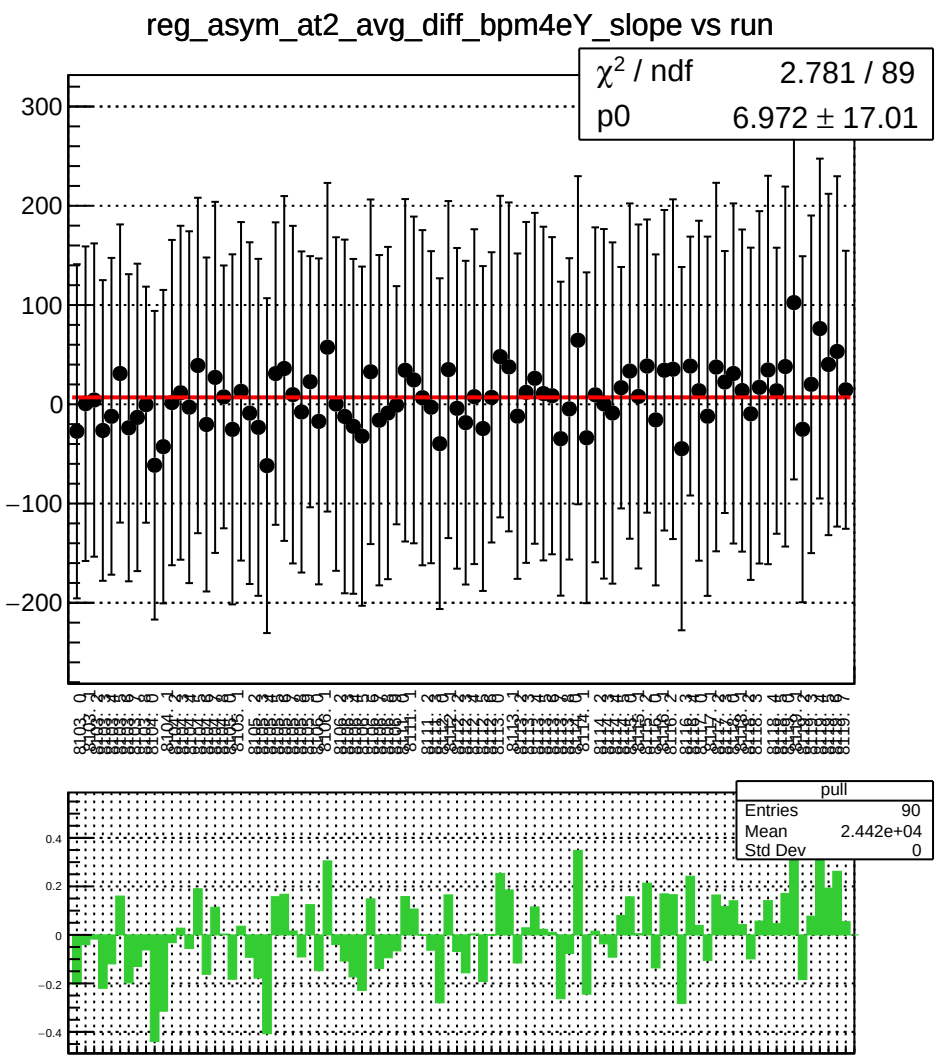

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.653 / 89
p0 −392.5 ± 10.57
pull
Entries 90
Mean −6.74e+04
Std Dev 0

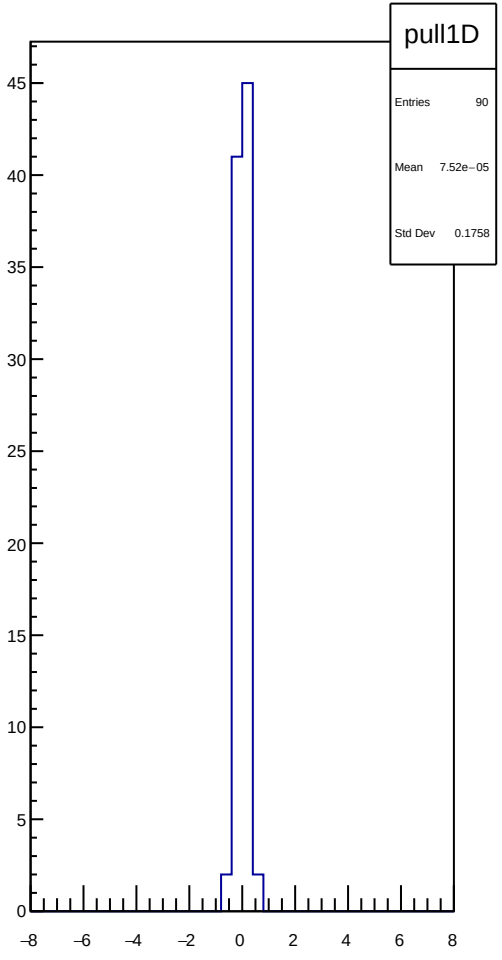

pull1D
Entries 90
Mean −3.607e−05
Std Dev 0.2015

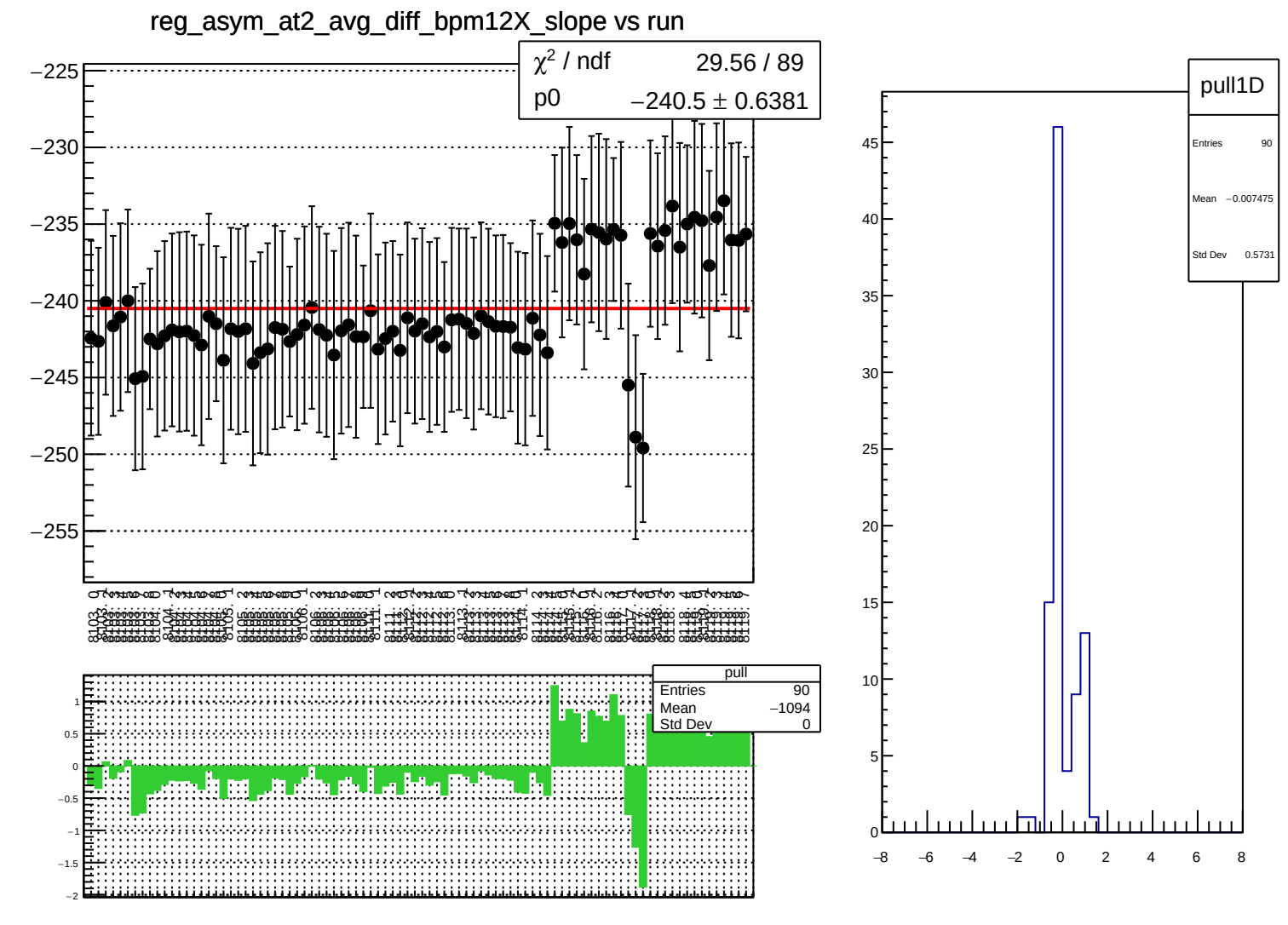

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.893 / 89
p0 96.32 ± 15.91
pull
Entries 90
Mean 2730
Std Dev 0

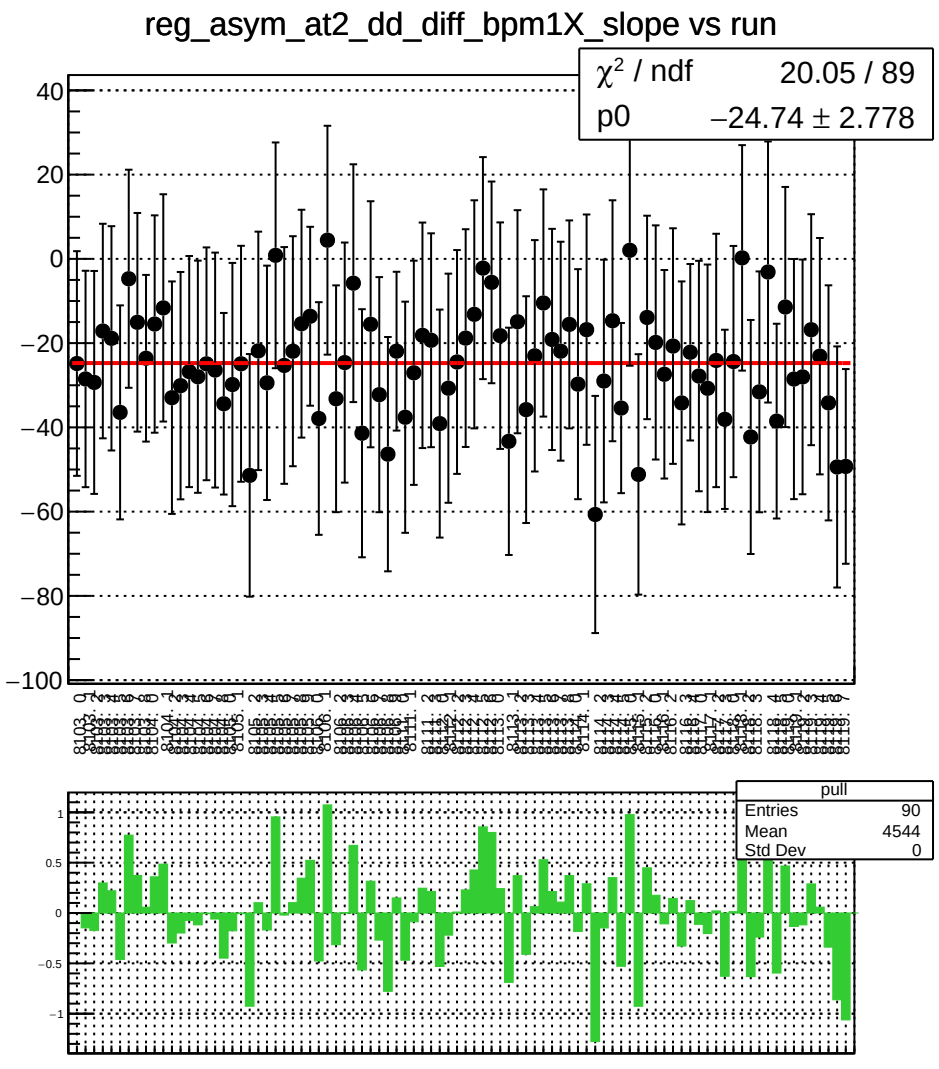

pull1D
Entries 90
Mean −0.0008185
Std Dev 0.1793

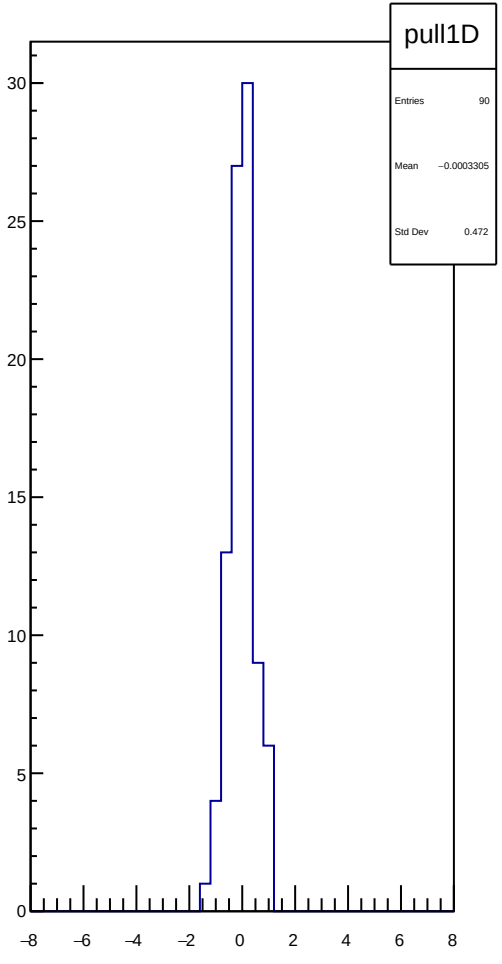

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.792 / 89
p0 363 ± 10.06
pull
Entries 90
Mean −5325
Std Dev 0
pull1D
Entries 90
Mean 0.0005076
Std Dev 0.2053

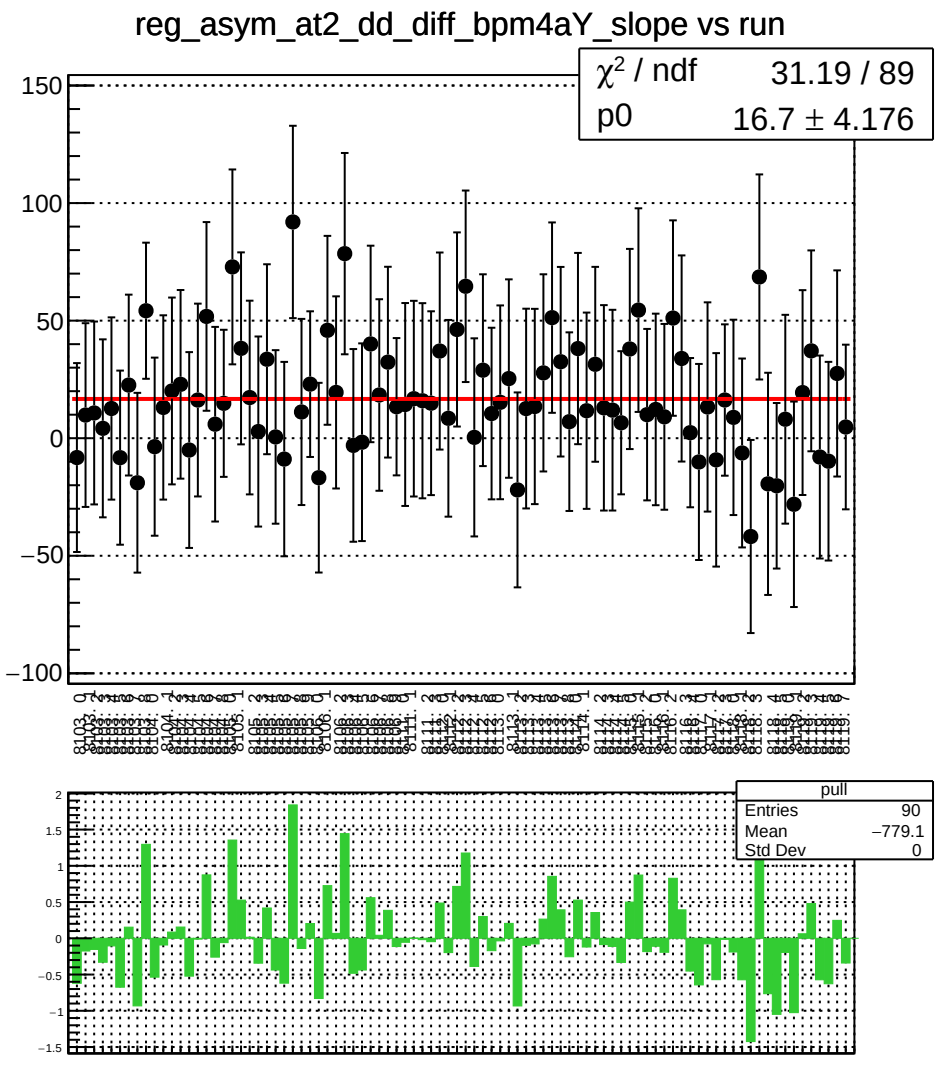

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.781 / 89
p0 6.972 ± 17.01
300
200
100
0
−100
−200
pull
Entries 90
Mean 2.442e+04
Std Dev 0
0.4
0.2
0
−0.2
−0.4

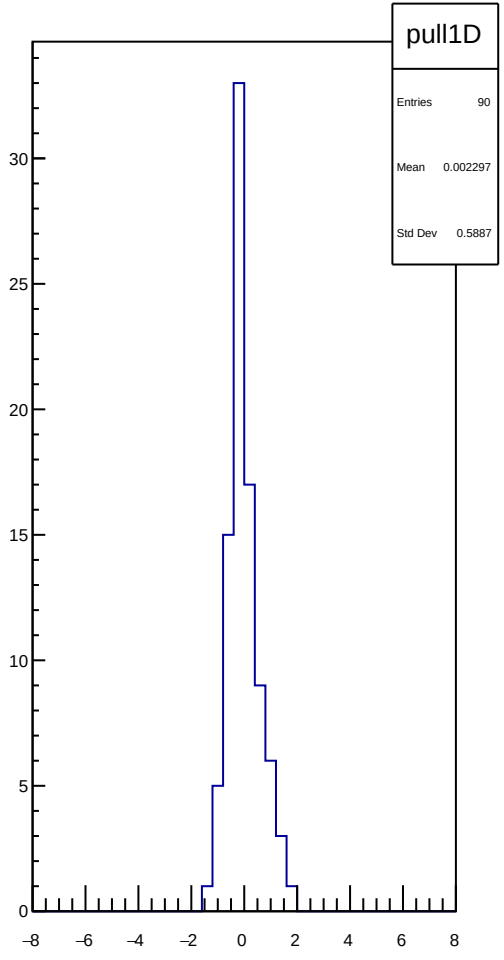

pull1D
Entries 90
Mean 7.52e−05
Std Dev 0.1758
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

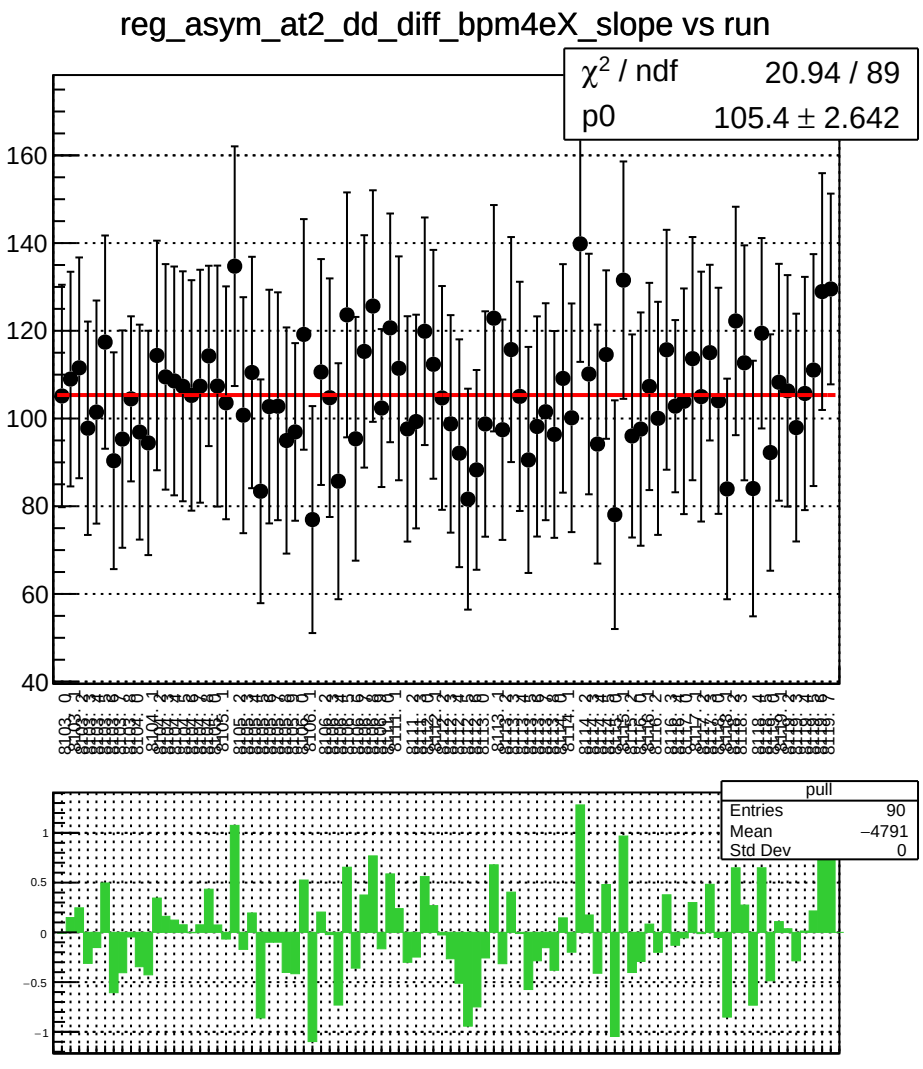

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 29.56 / 89
p0 −240.5 ± 0.6381
pull
Entries 90
Mean −1094
Std Dev 0
pull1D
Entries 90
Mean −0.007475
Std Dev 0.5731

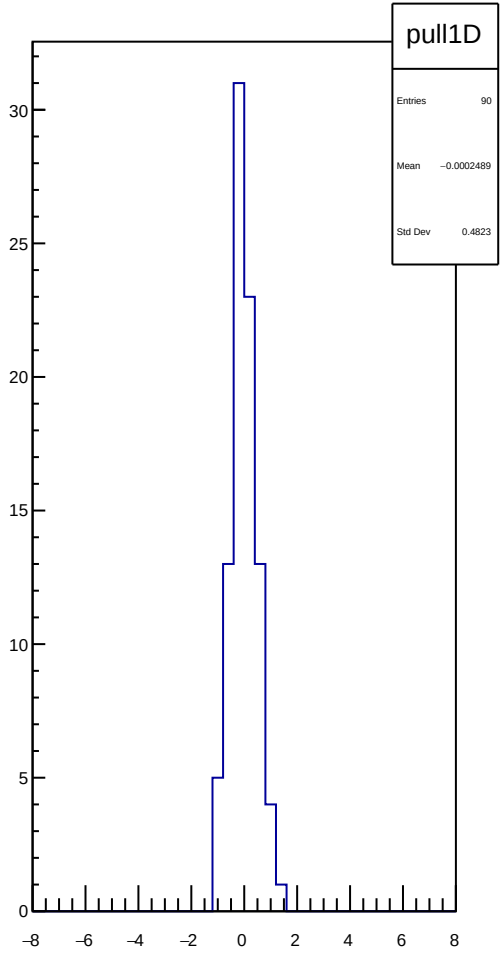

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 20.05 / 89
p0 −24.74 ± 2.778
pull
Entries 90
Mean 4544
Std Dev 0

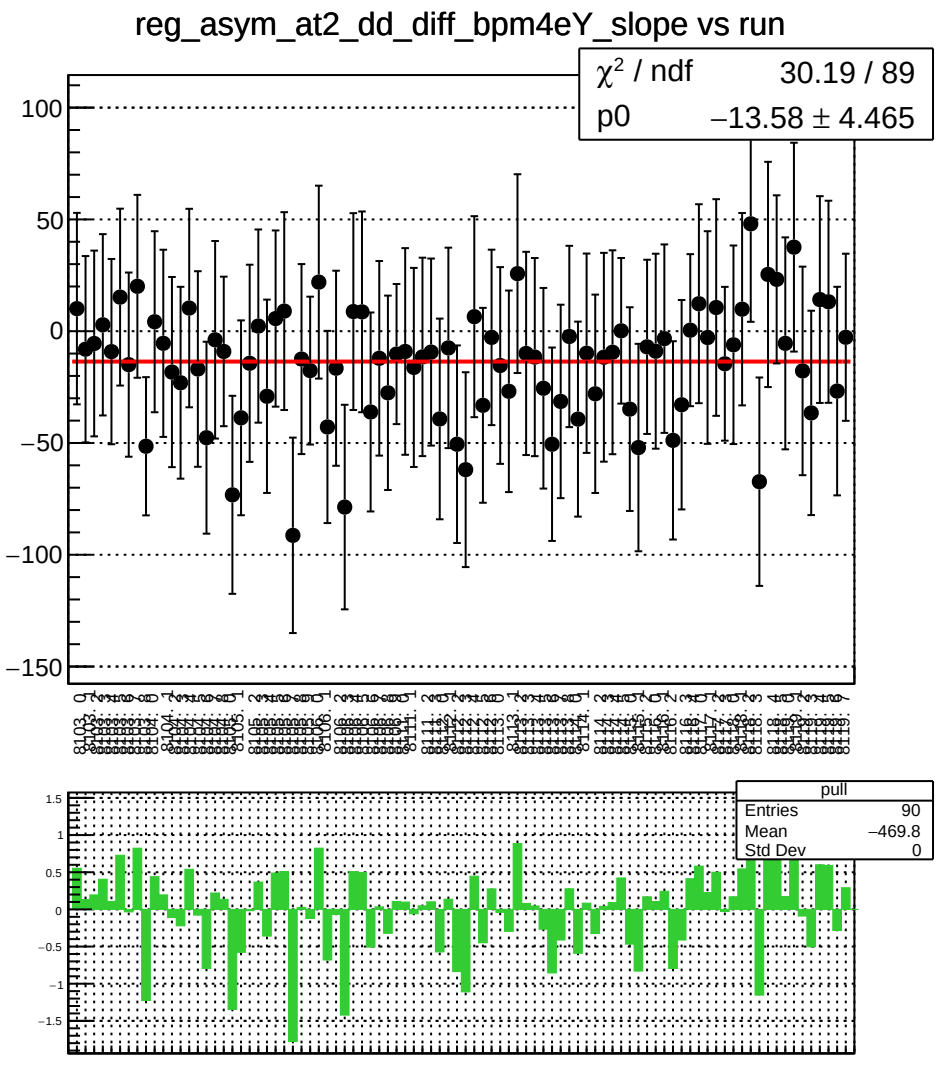

pull1D
Entries 90
Mean −0.0003305
Std Dev 0.472

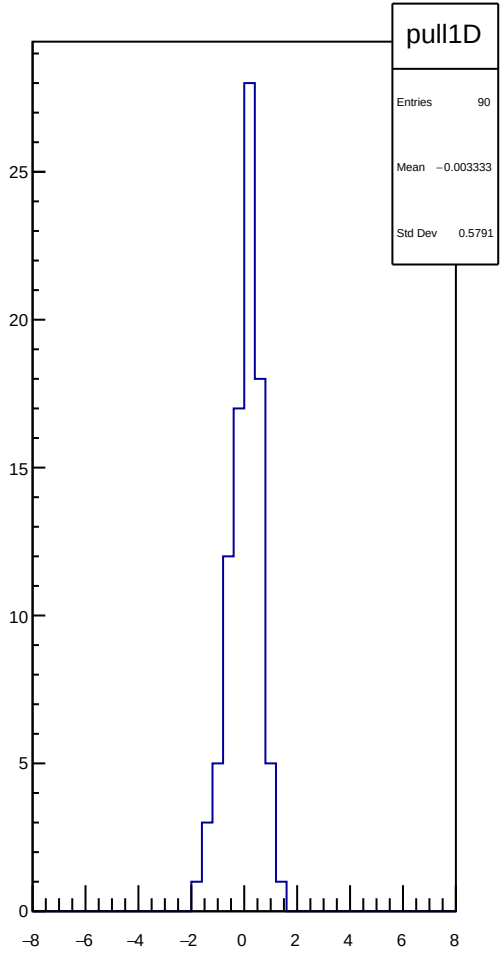

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.19 / 89
p0 16.7 ± 4.176
150
100
50
0
−50
−100
pull
Entries 90
Mean −779.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

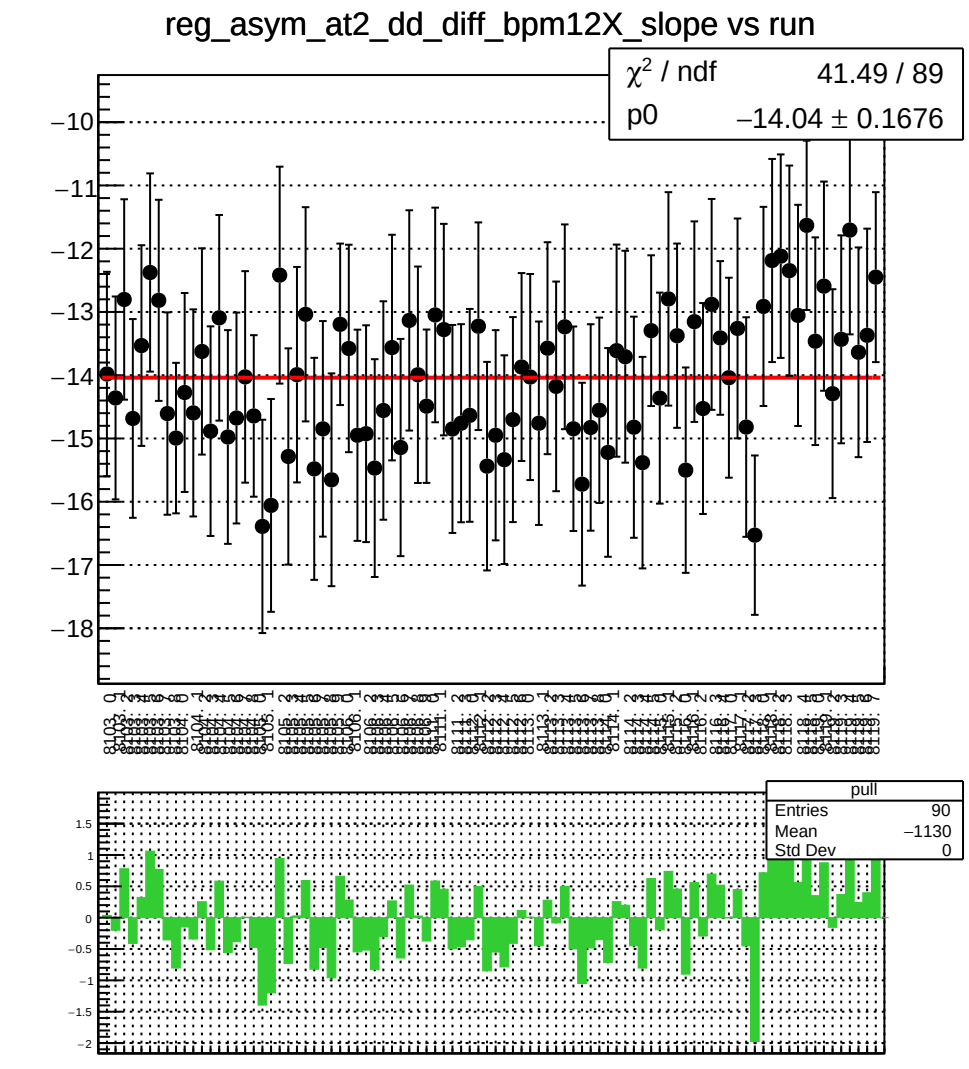

pull1D
Entries 90
Mean 0.002297
Std Dev 0.5887
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

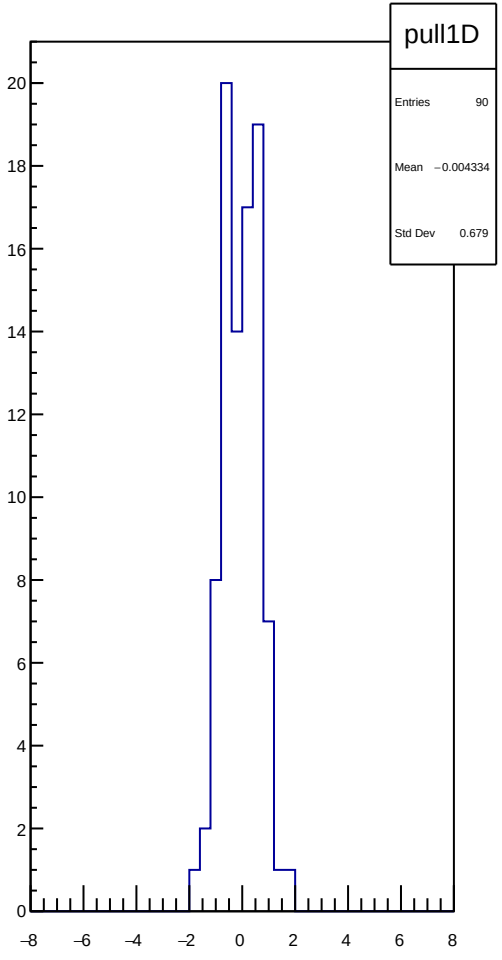

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 20.94 / 89
p0 105.4 ± 2.642
160
140
120
100
80
60
40
pull
Entries 90
Mean −4791
Std Dev 0
1
0.5
0
−0.5
−1

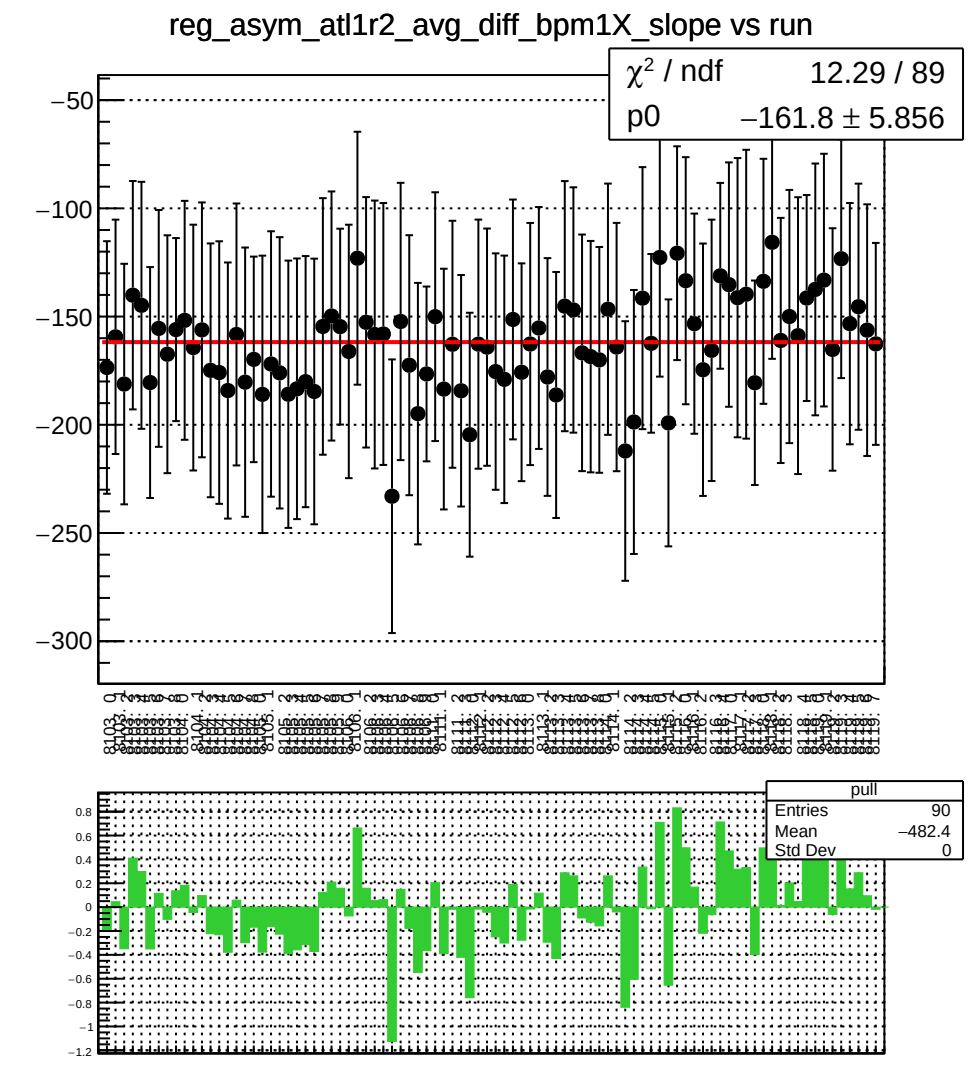

pull1D
Entries 90
Mean −0.0002489
Std Dev 0.4823
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

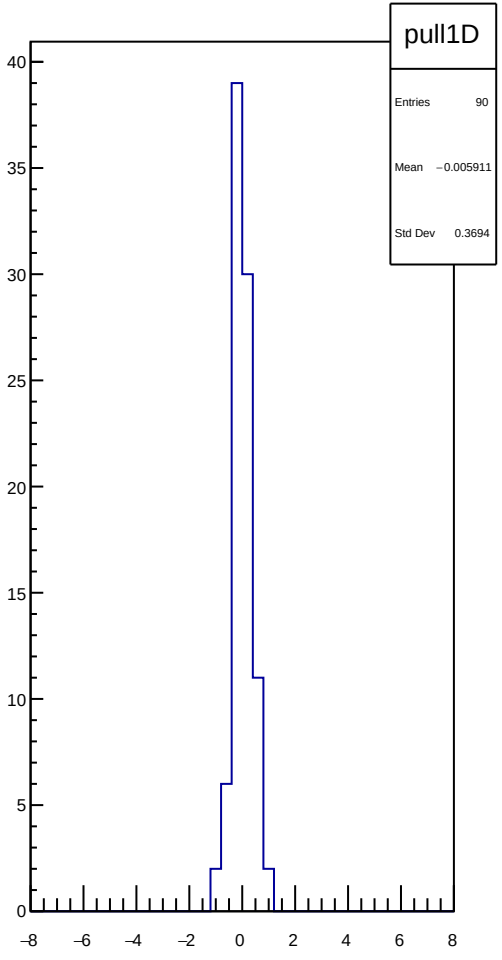

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.19 / 89
p0 −13.58 ± 4.465
100
50
0
−50
−100
−150
pull
Entries 90
Mean −469.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

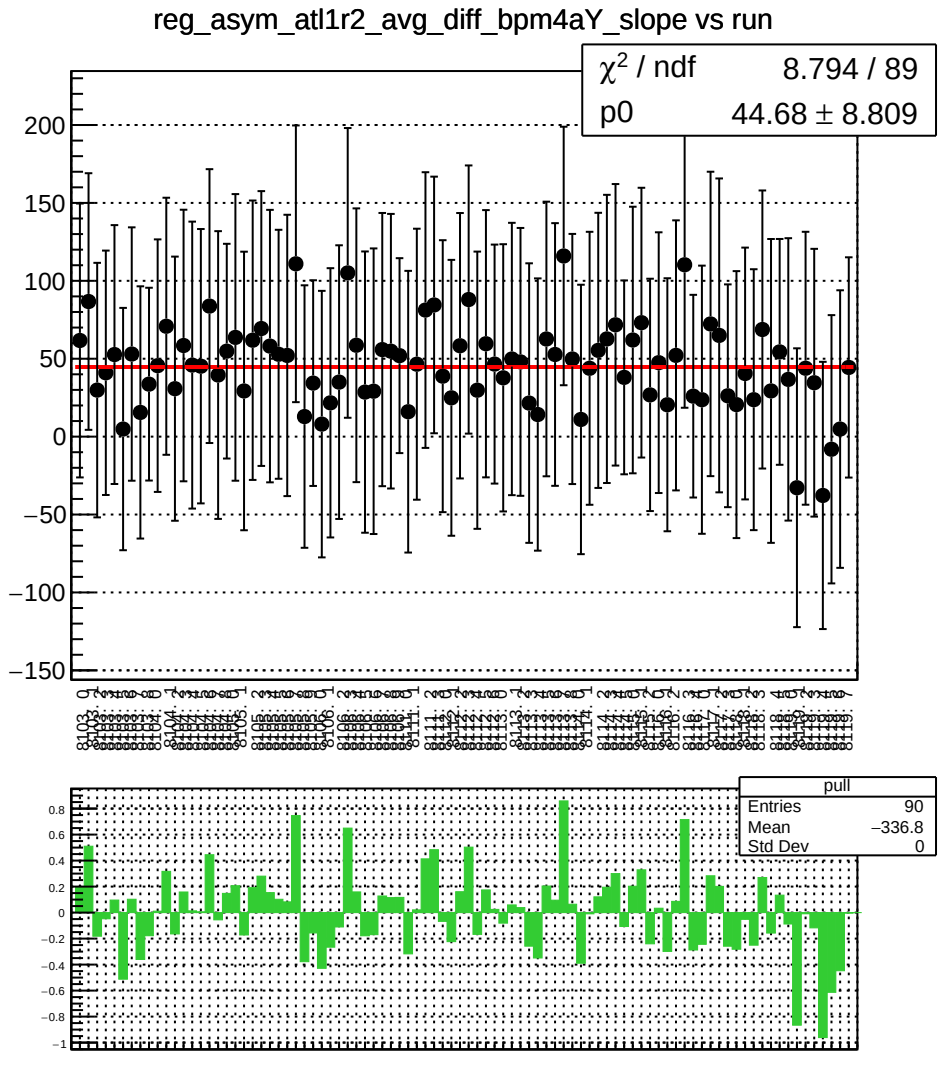

pull1D
Entries 90
Mean −0.003333
Std Dev 0.5791
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

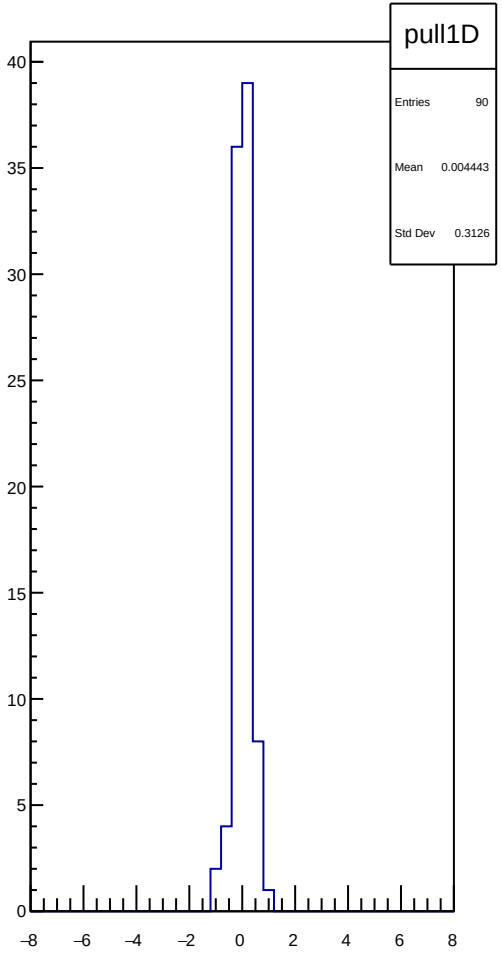

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 41.49 / 89
p0 −14.04 ± 0.1676
pull
Entries 90
Mean −1130
Std Dev 0

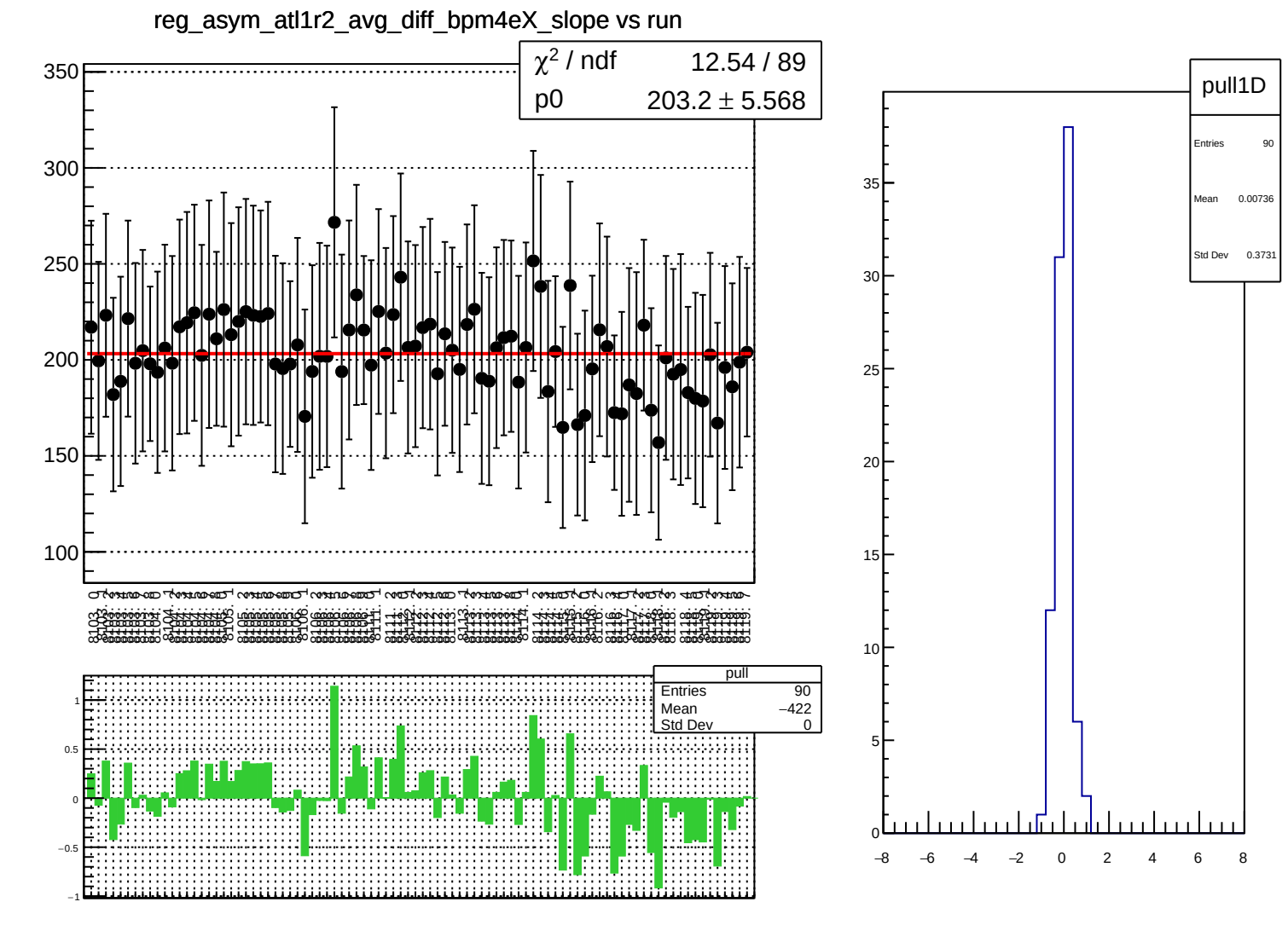

pull1D
Entries 90
Mean −0.004334
Std Dev 0.679

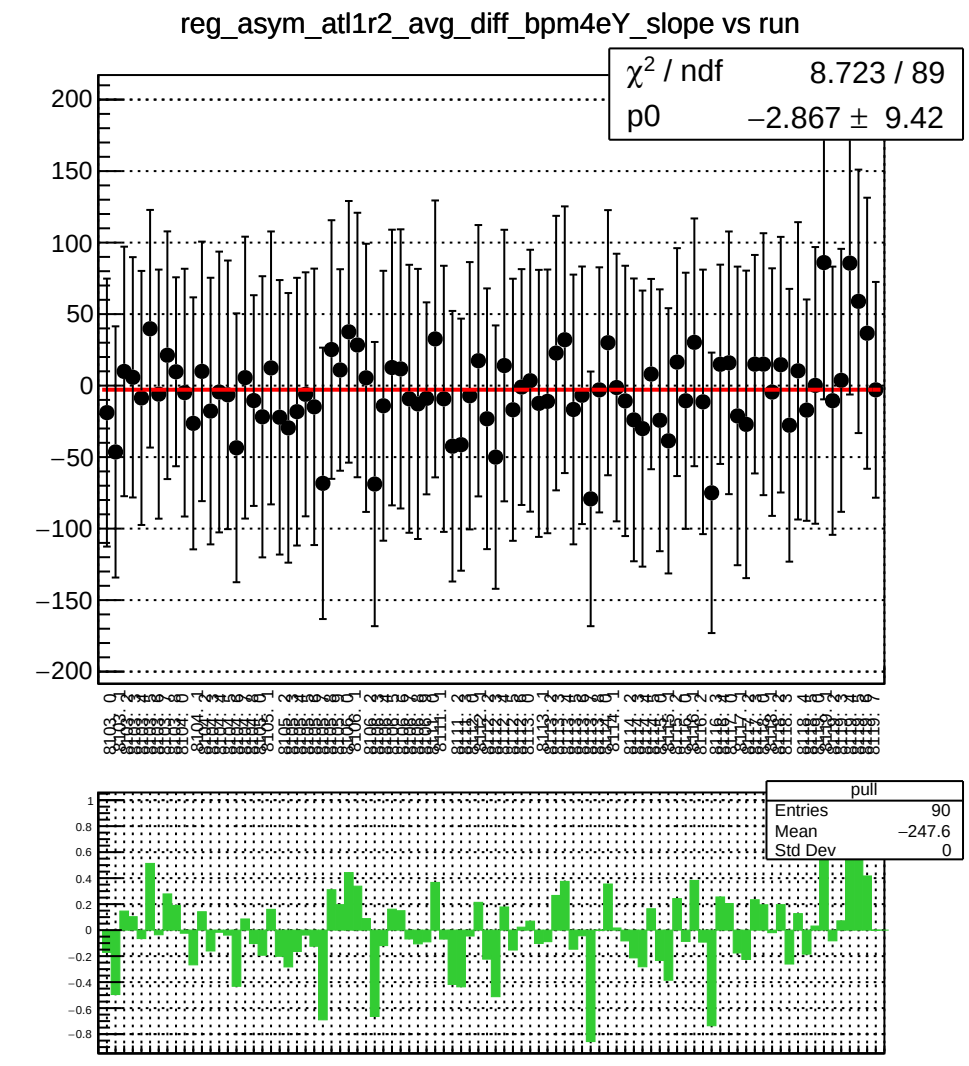

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.29 / 89
p0 −161.8 ± 5.856
pull
Entries 90
Mean −482.4
Std Dev 0

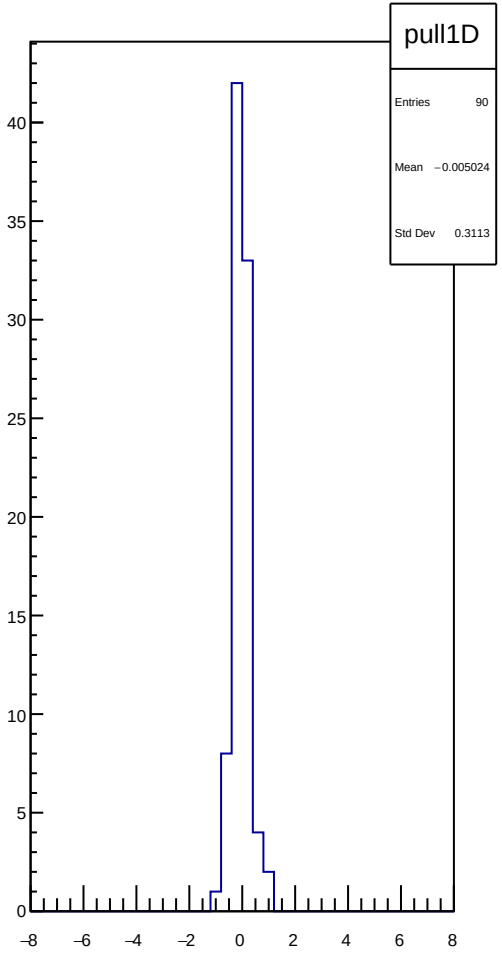

pull1D
Entries 90
Mean −0.005911
Std Dev 0.3694

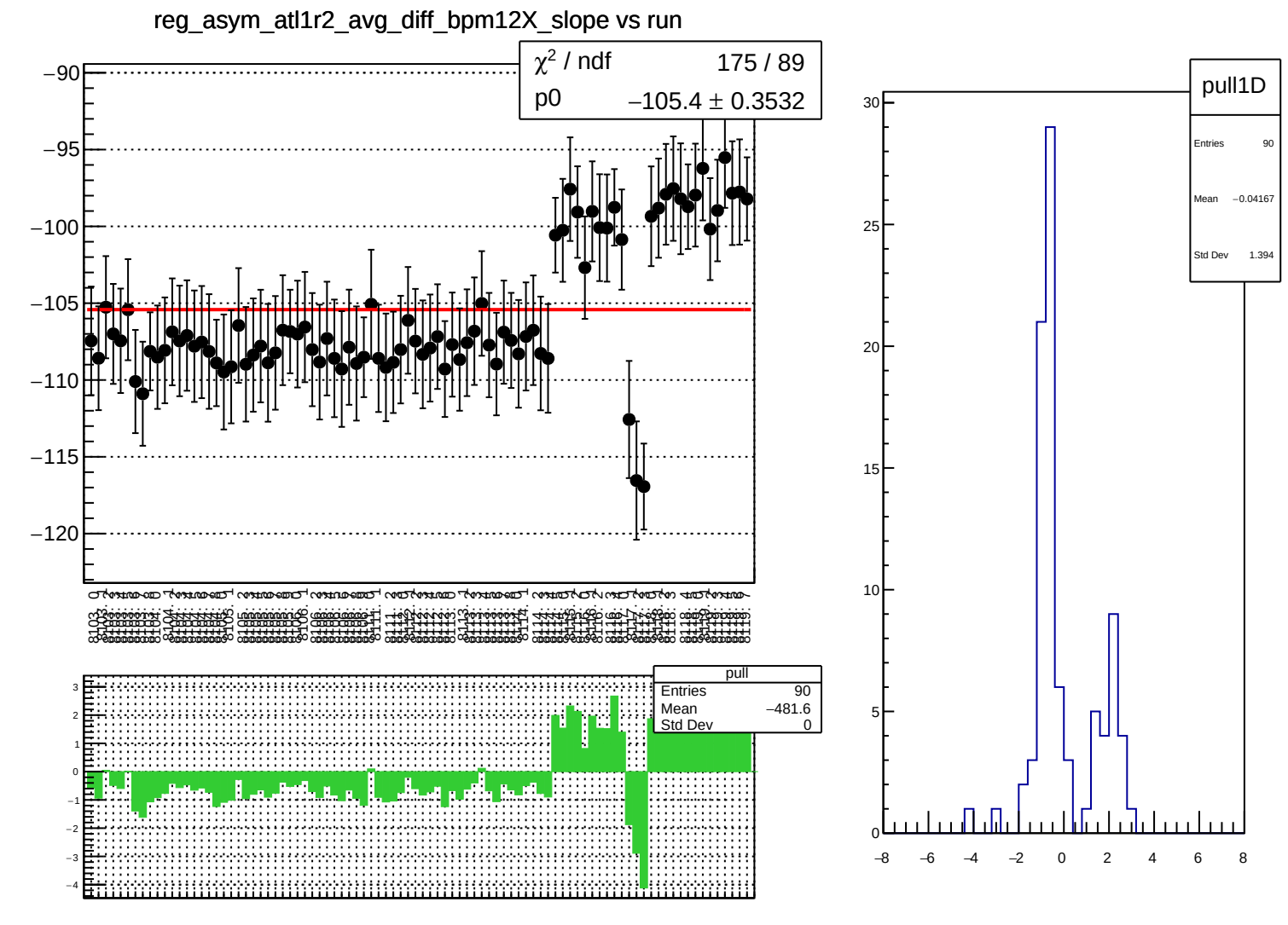

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.794 / 89
p0 44.68 ± 8.809
pull
Entries 90
Mean −336.8
Std Dev 0

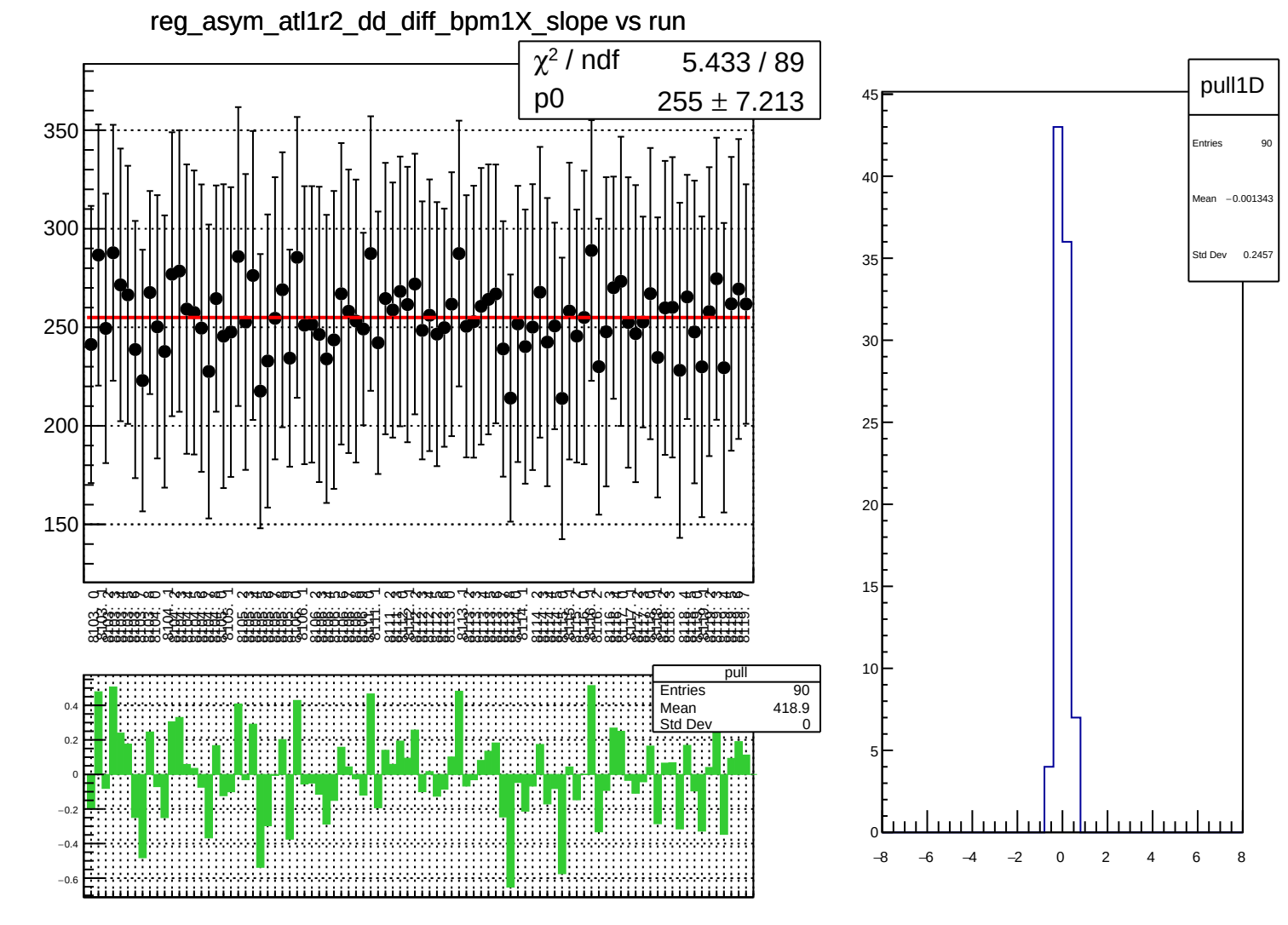

pull1D
Entries 90
Mean 0.004443
Std Dev 0.3126

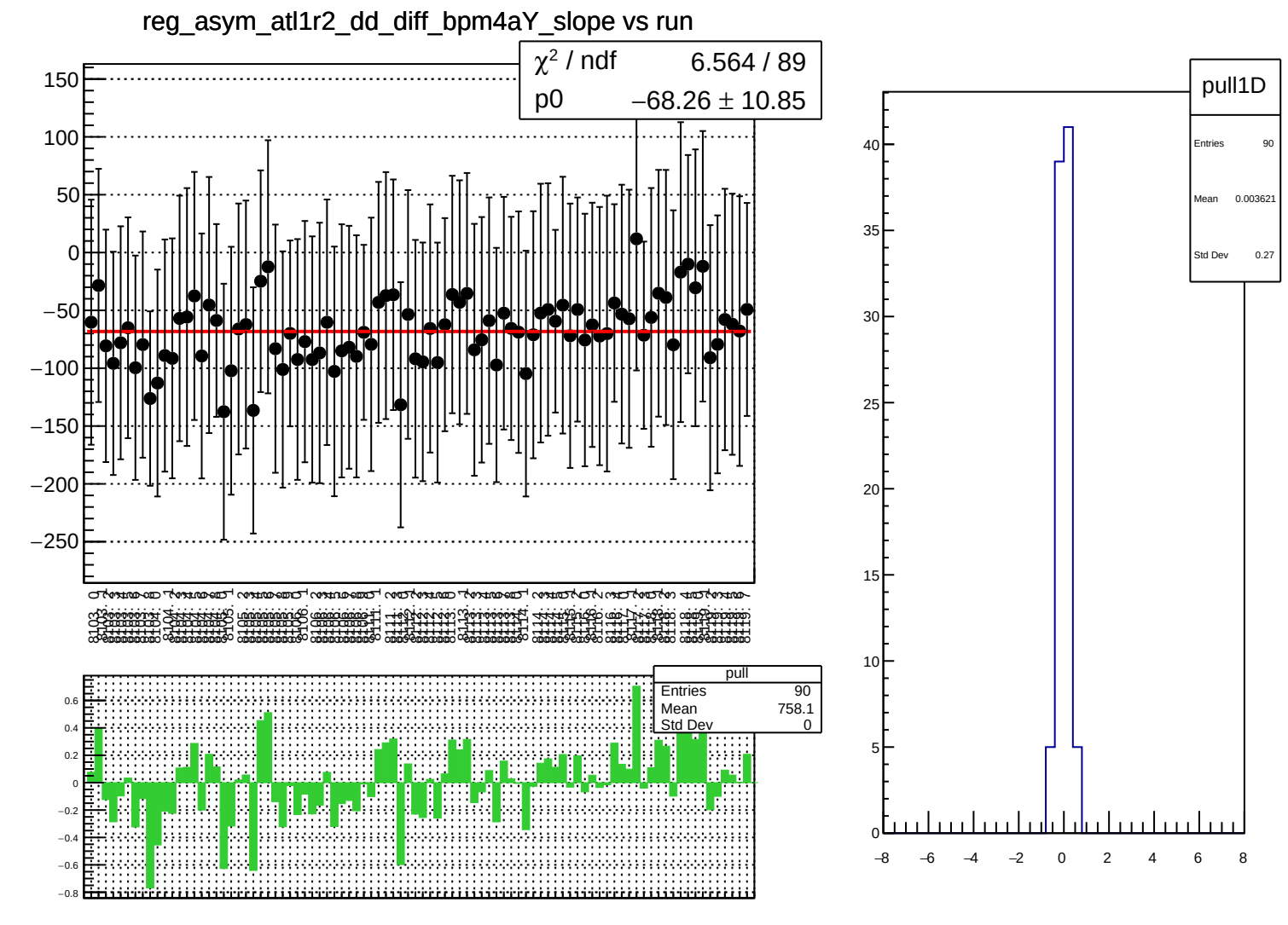

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.54 / 89
p0 203.2 ± 5.568
pull
Entries 90
Mean −422
Std Dev 0
pull1D
Entries 90
Mean 0.00736
Std Dev 0.3731

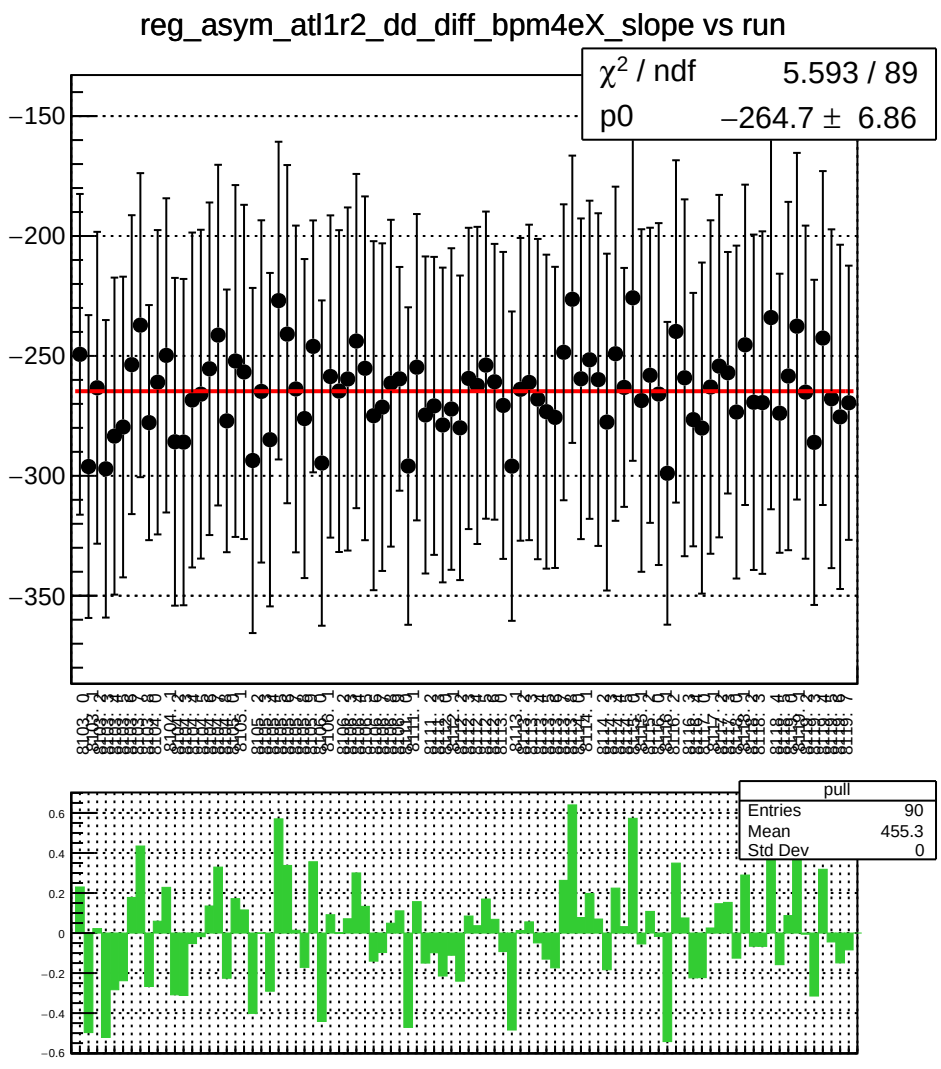

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.723 / 89
p0 −2.867 ± 9.42
pull
Entries 90
Mean −247.6
Std Dev 0

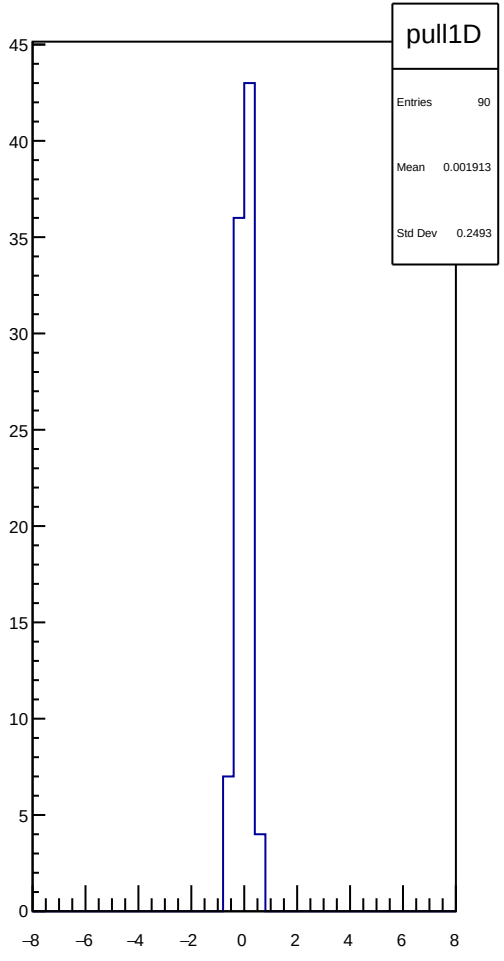

pull1D
Entries 90
Mean −0.005024
Std Dev 0.3113

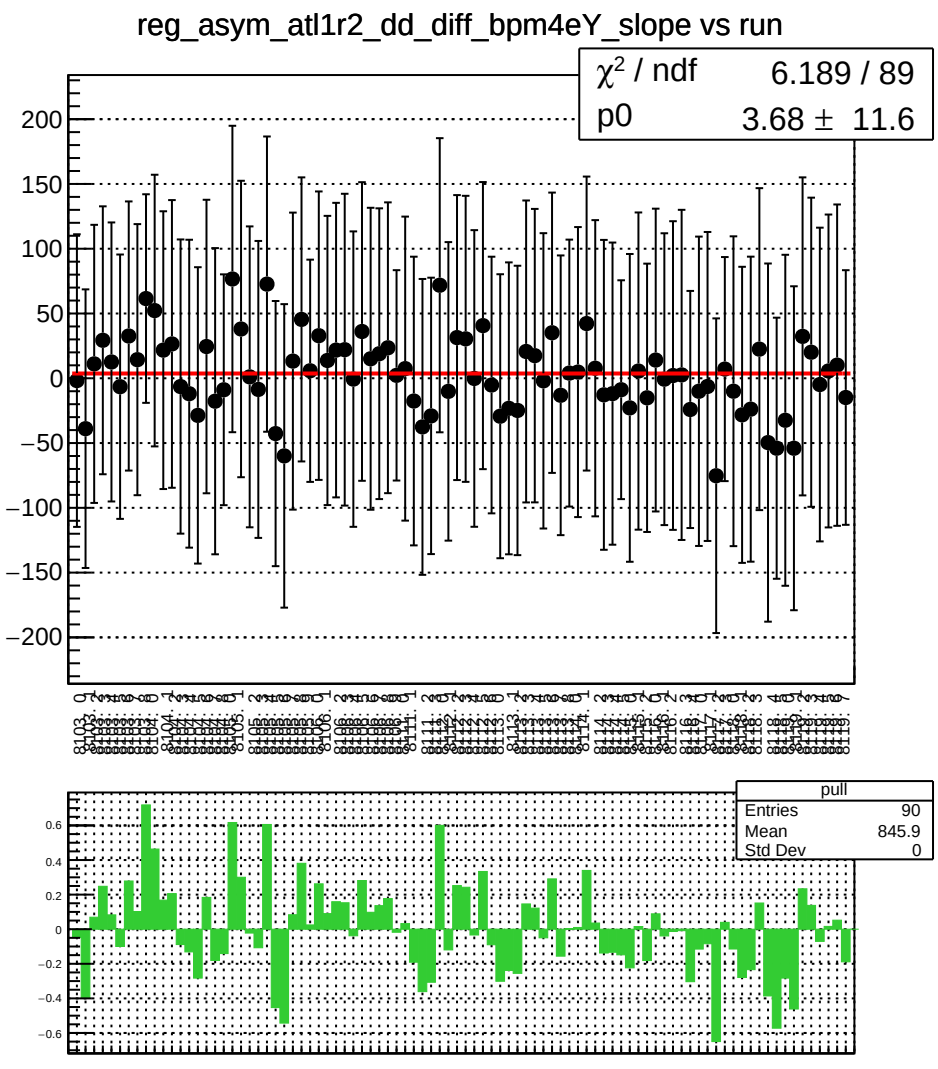

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 175 / 89
p0 −105.4 ± 0.3532
−90
−95
−100
−105
−110
−115
−120
pull
Entries 90
Mean −481.6
Std Dev 0
pull1D
Entries 90
Mean −0.04167
Std Dev 1.394
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

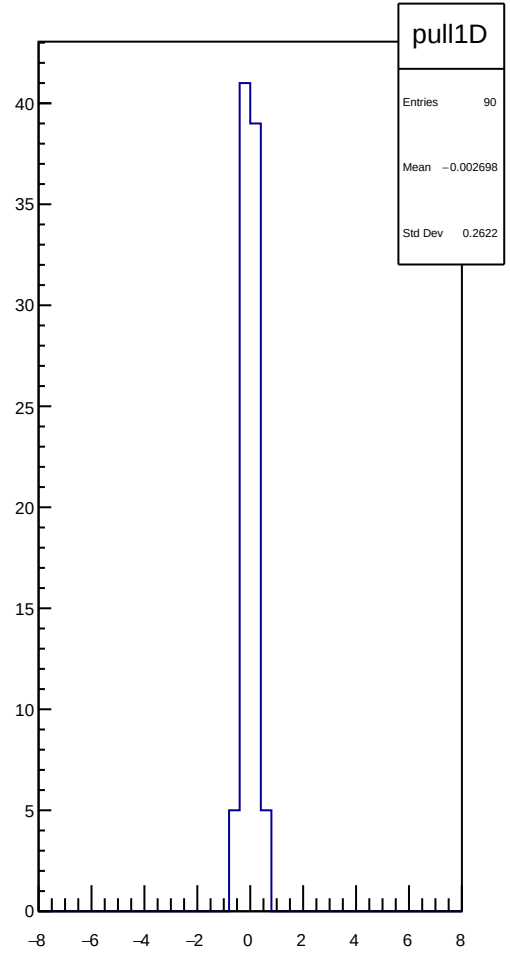

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.433 / 89
p0 255 ± 7.213
pull
Entries 90
Mean 418.9
Std Dev 0
pull1D
Entries 90
Mean −0.001343
Std Dev 0.2457

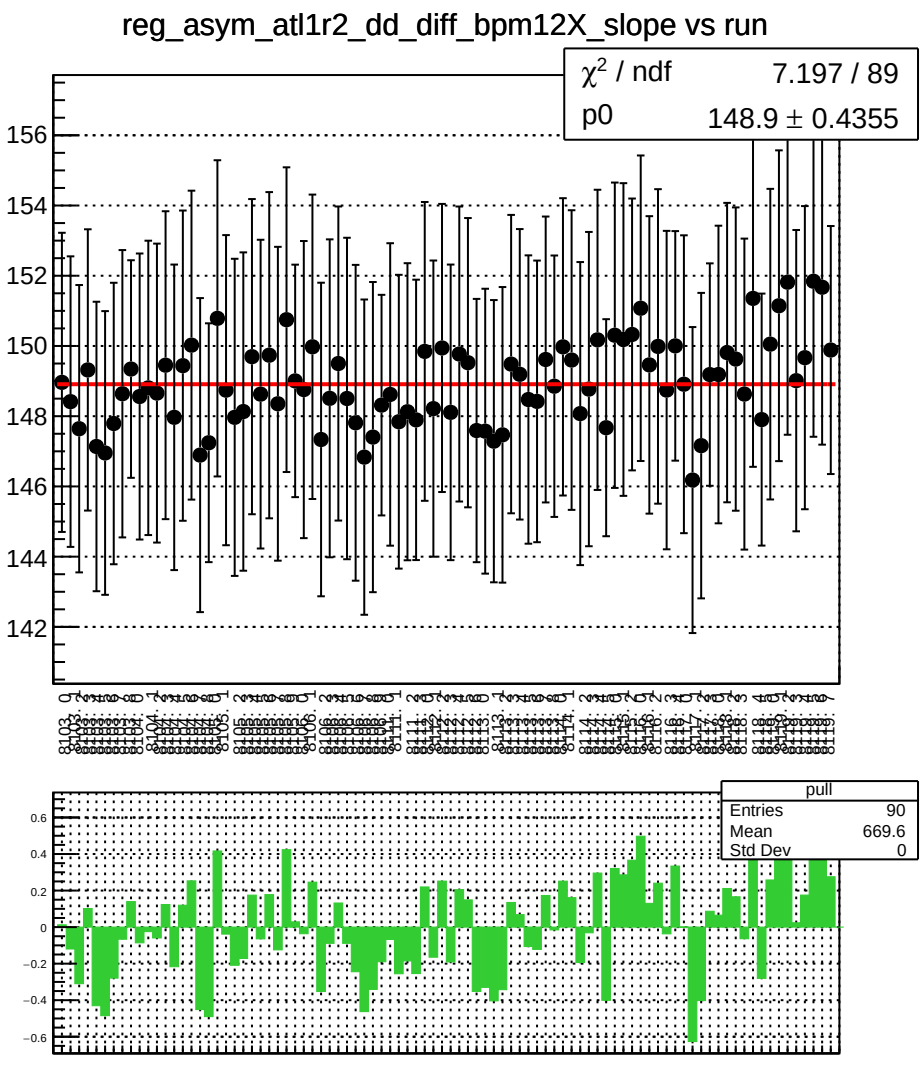

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.564 / 89
p0 −68.26 ± 10.85
pull
Entries 90
Mean 758.1
Std Dev 0
pull1D
Entries 90
Mean 0.003621
Std Dev 0.27

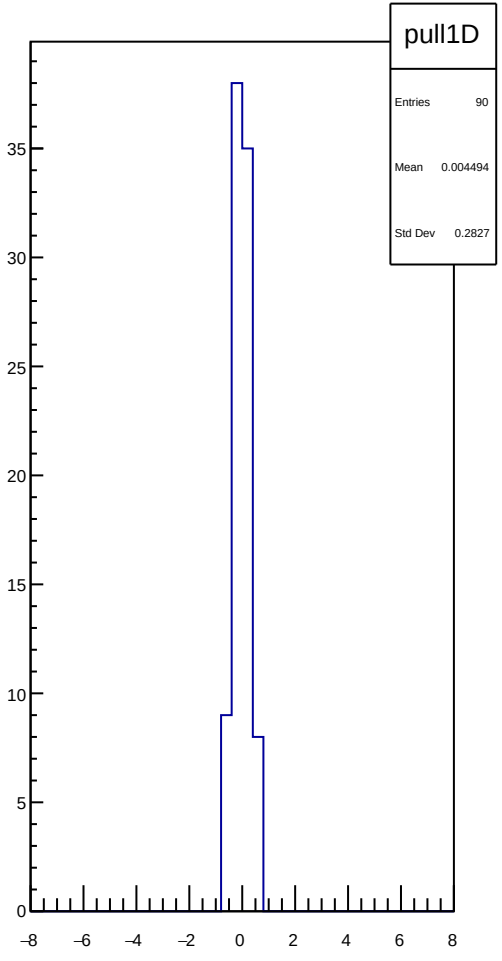

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.593 / 89
p0 −264.7 ± 6.86
−150
−200
−250
−300
−350
pull
Entries 90
Mean 455.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

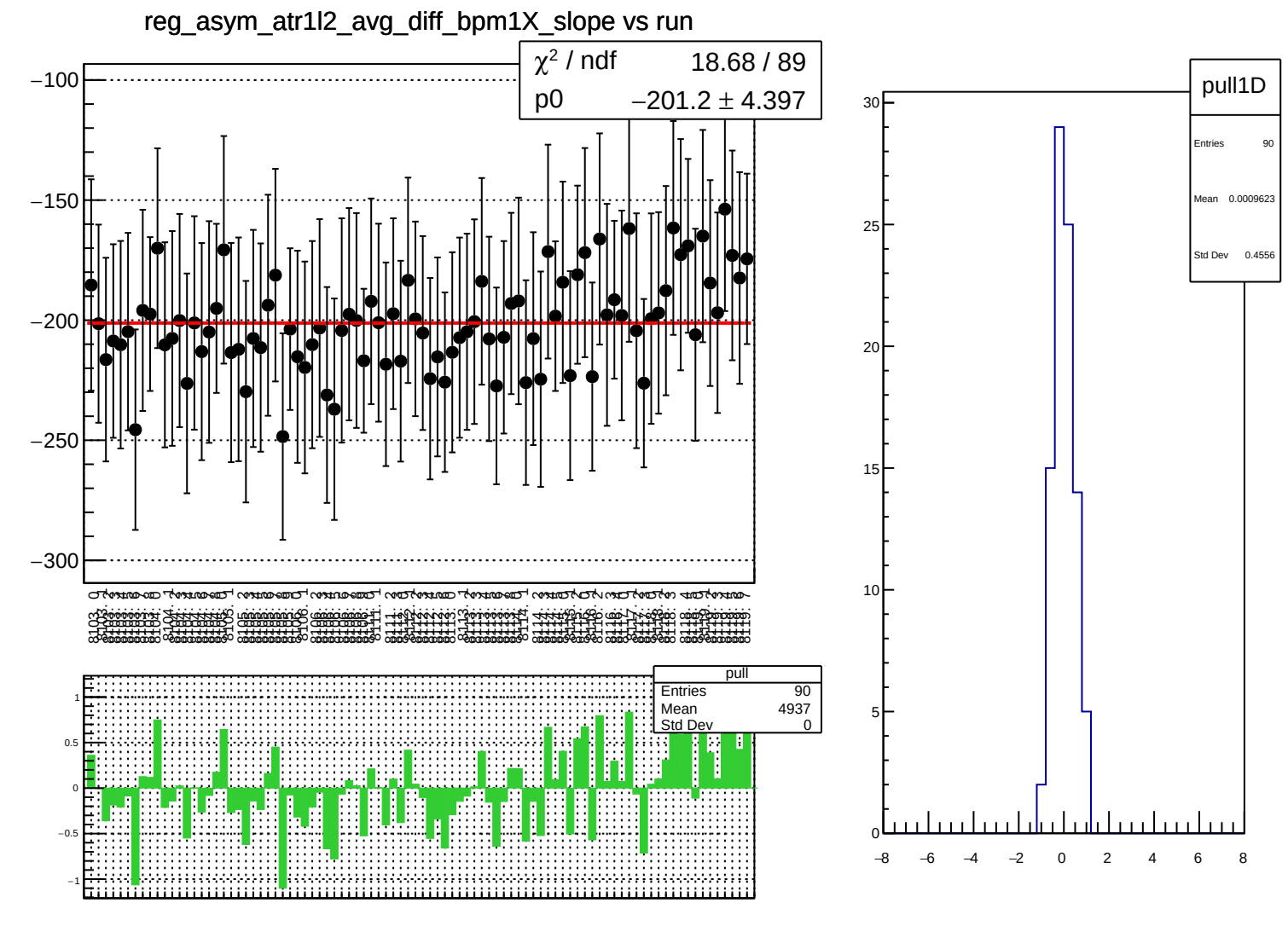

pull1D
Entries 90
Mean 0.001913
Std Dev 0.2493
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

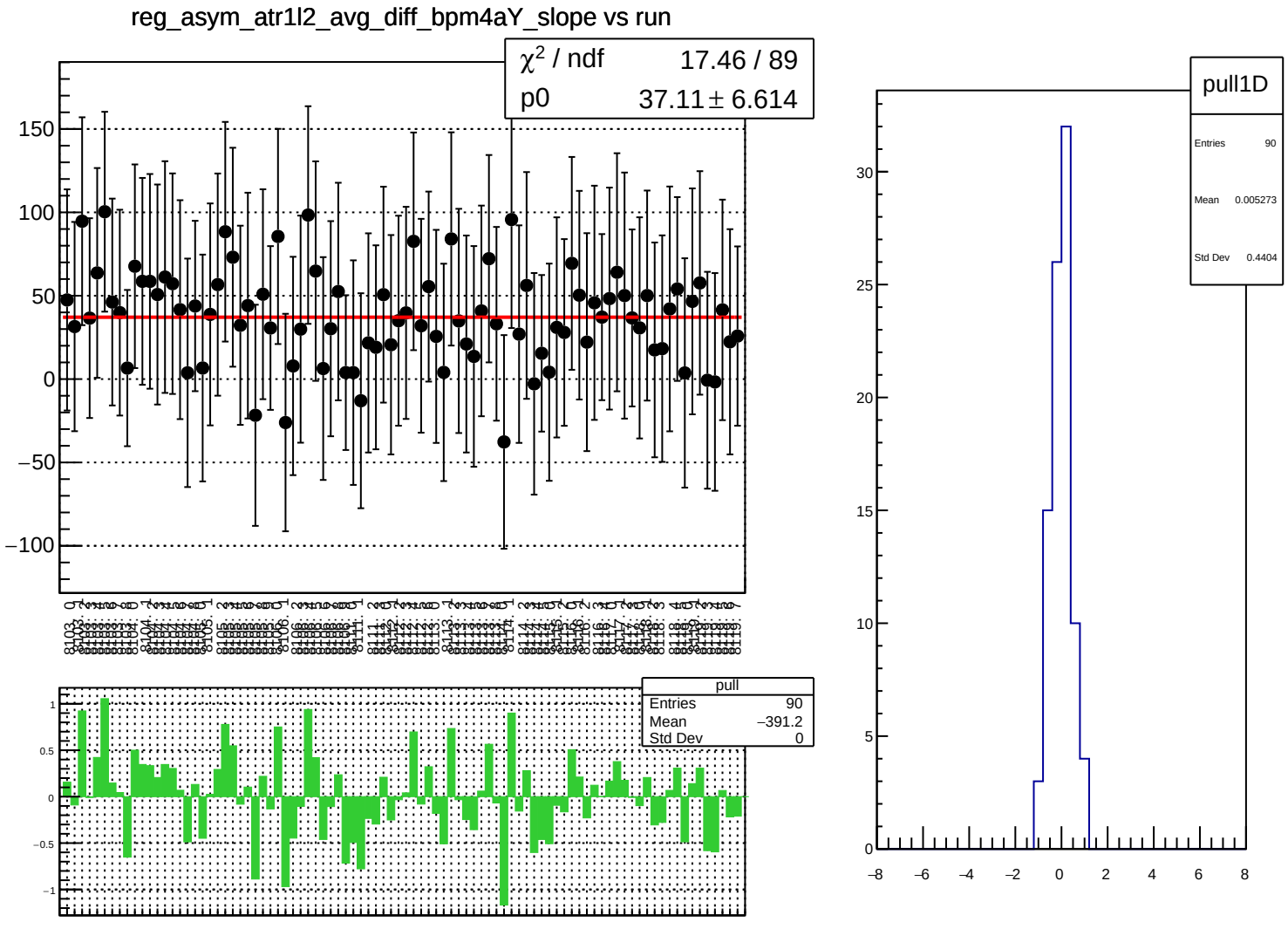

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.189 / 89
p0 3.68 ± 11.6
pull
Entries 90
Mean 845.9
Std Dev 0

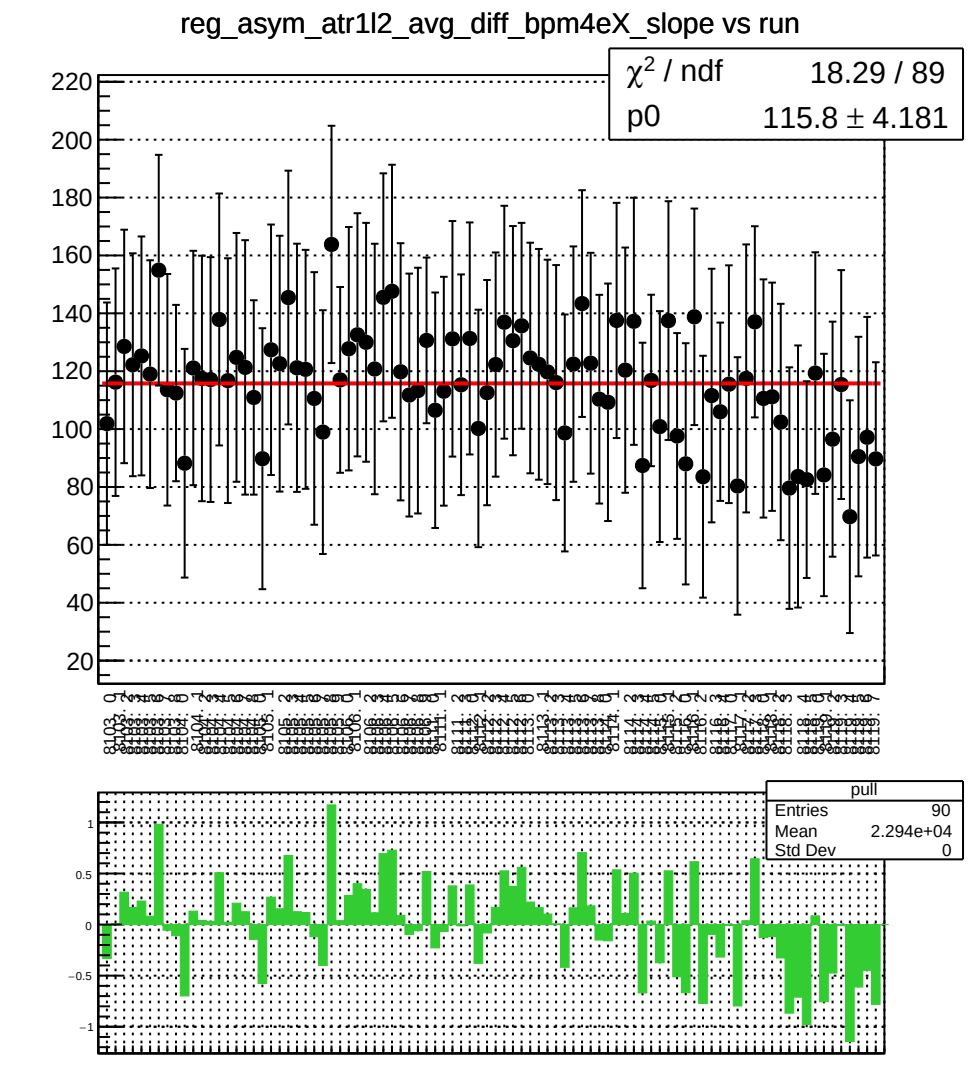

pull1D
Entries 90
Mean −0.002698
Std Dev 0.2622

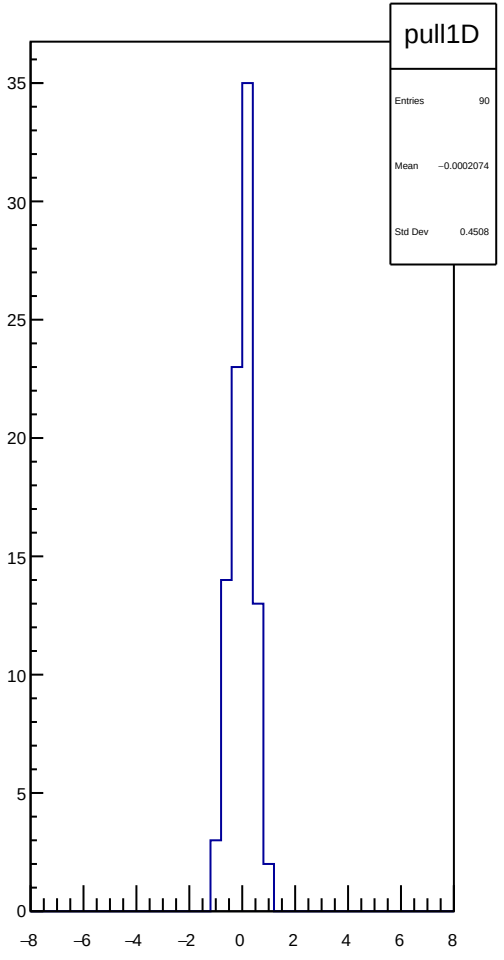

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.197 / 89
p0 148.9 ± 0.4355
pull
Entries 90
Mean 669.6
Std Dev 0

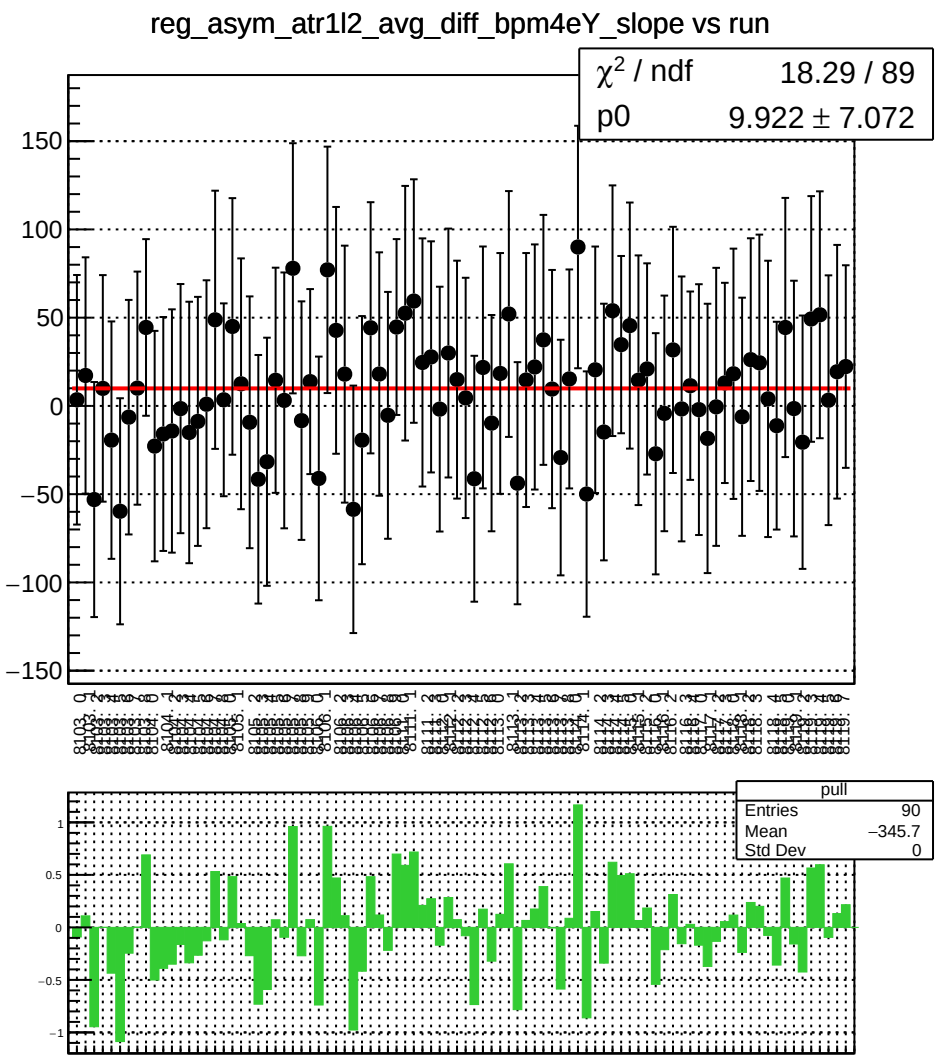

pull1D
Entries 90
Mean 0.004494
Std Dev 0.2827

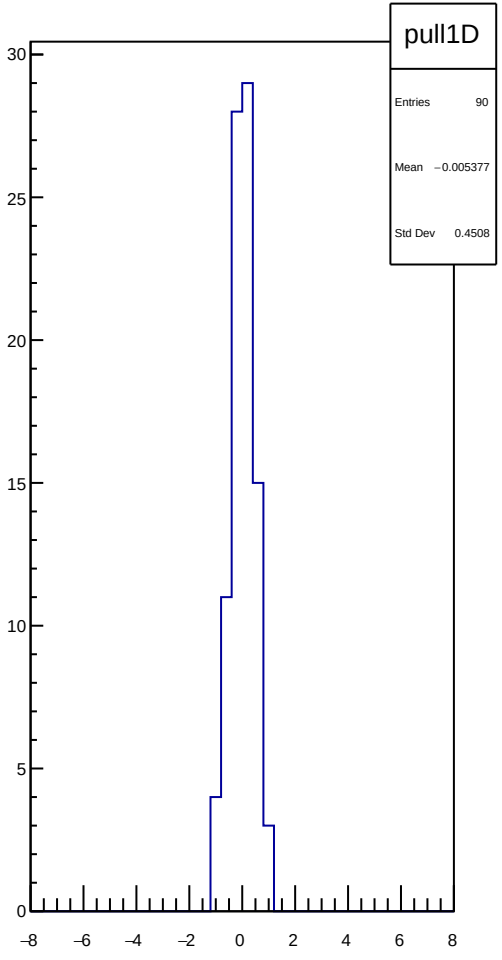

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 18.68 / 89
p0 −201.2 ± 4.397
−100
−150
−200
−250
−300
pull
Entries 90
Mean 4937
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 90
Mean 0.0009623
Std Dev 0.4556
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

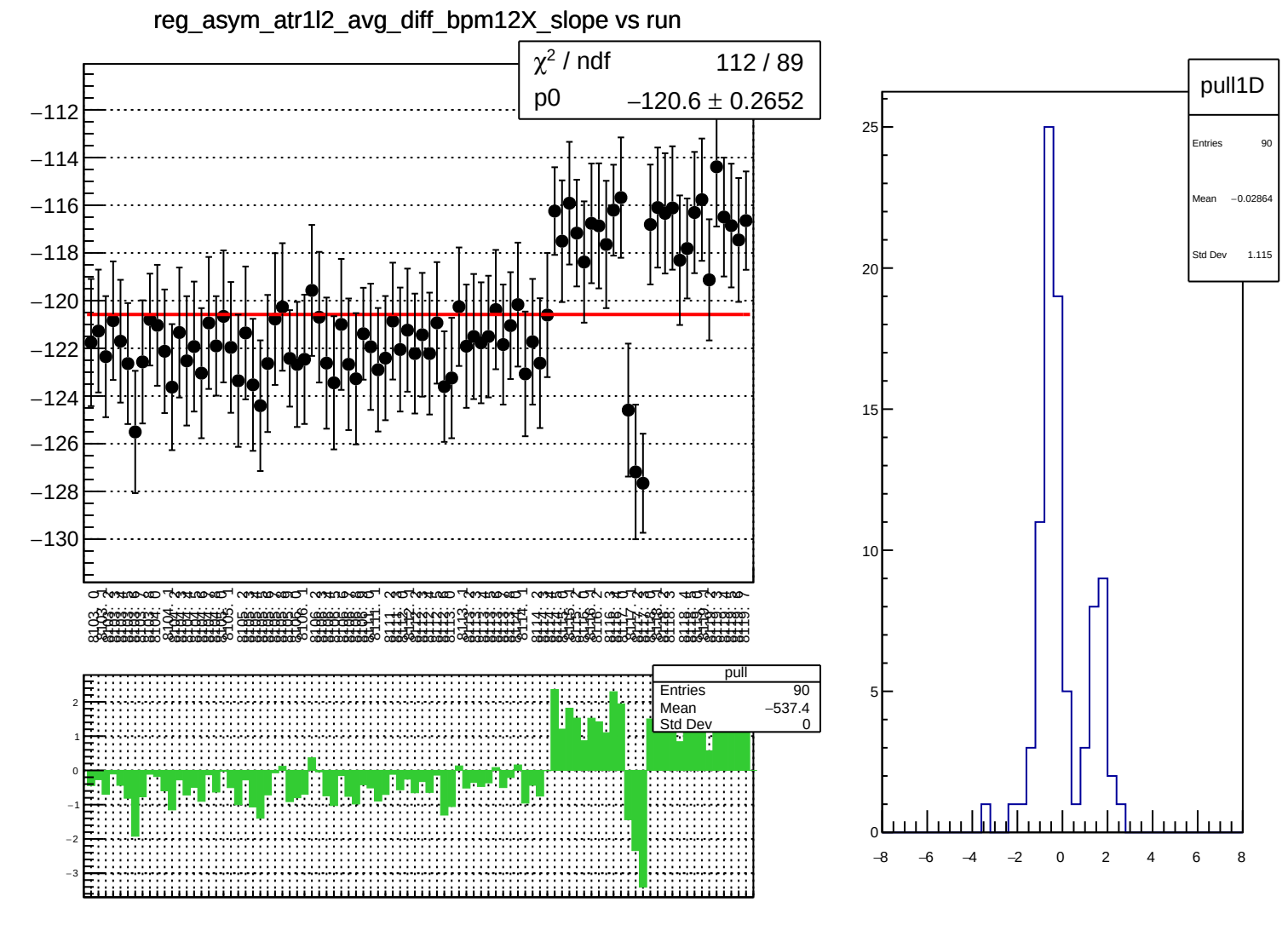

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.46 / 89
p0 37.11 ± 6.614
150
100
50
0
−50
−100
pull
Entries 90
Mean −391.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 90
Mean 0.005273
Std Dev 0.4404
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

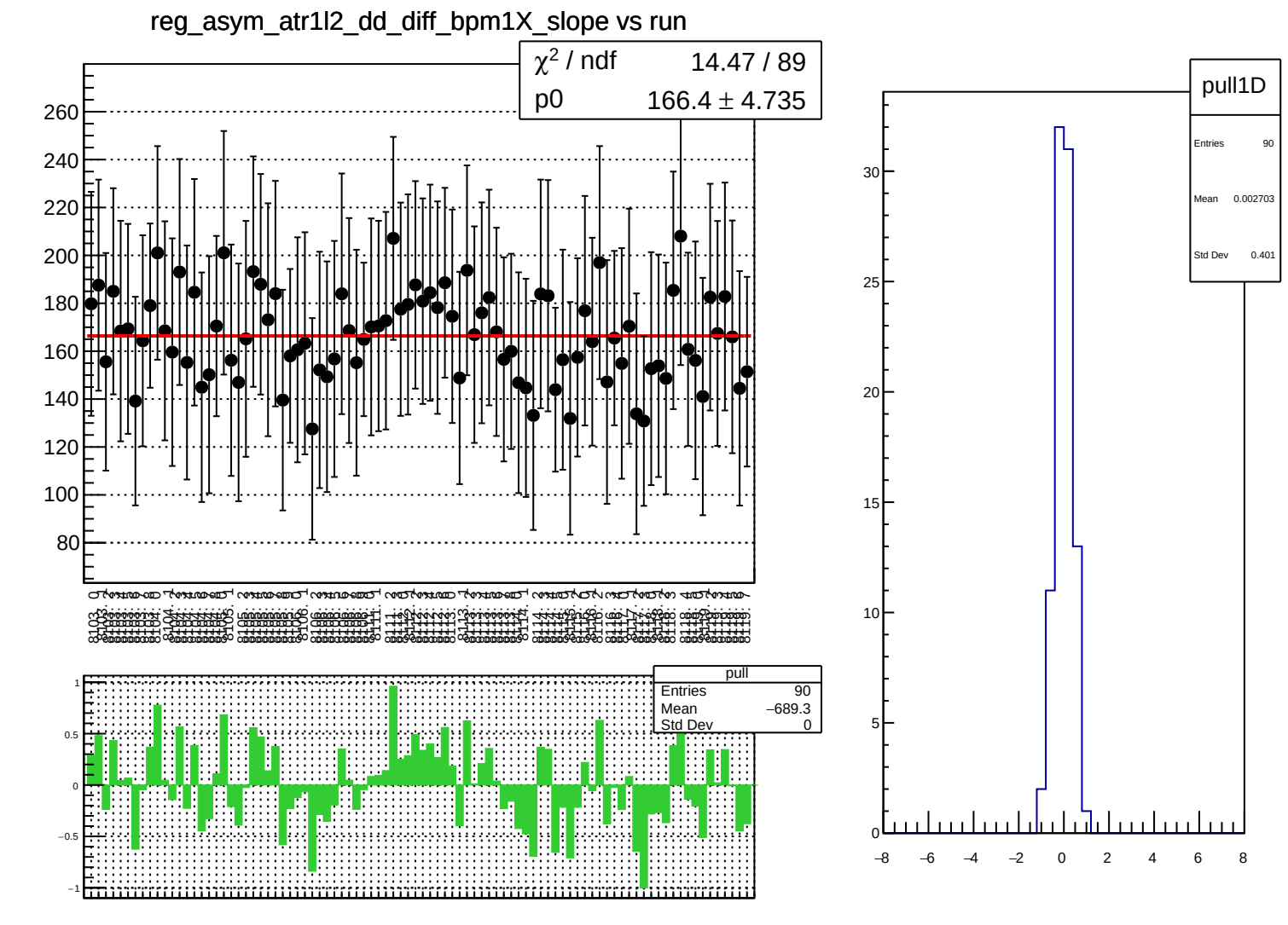

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.29 / 89
p0 115.8 ± 4.181
pull
Entries 90
Mean 2.294e+04
Std Dev 0

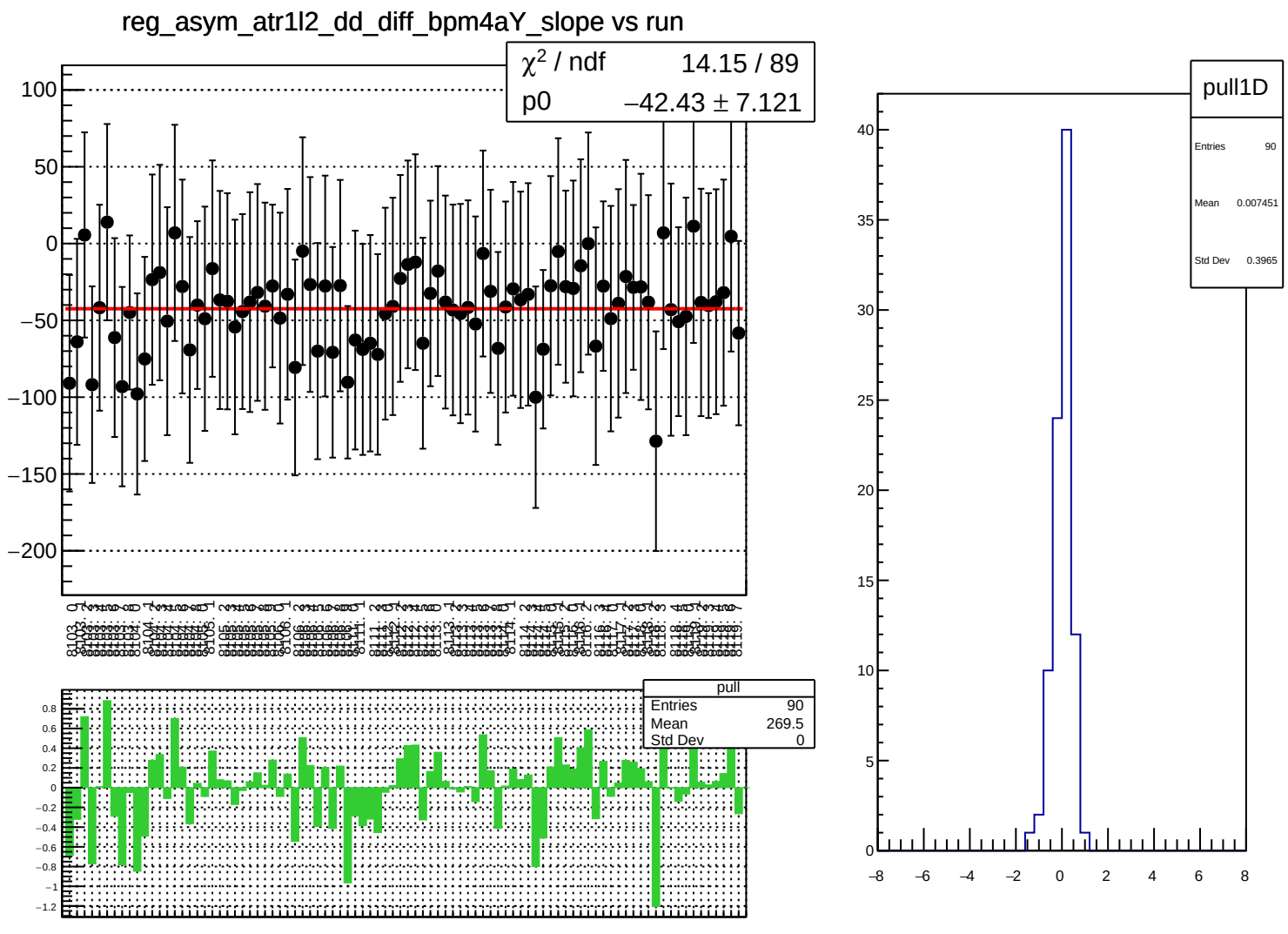

pull1D
Entries 90
Mean −0.0002074
Std Dev 0.4508

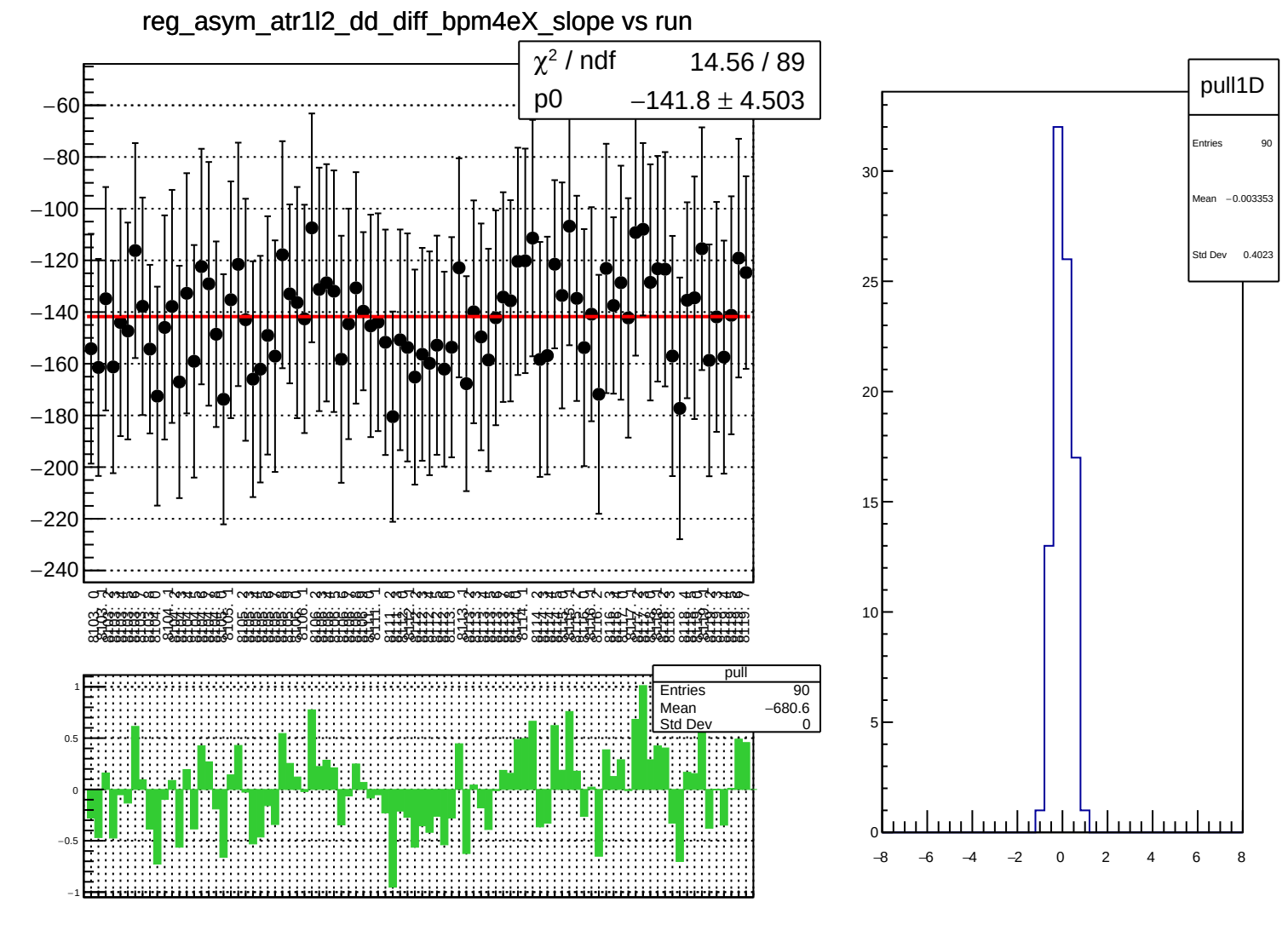

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.29 / 89
p0 9.922 ± 7.072
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −345.7
Std Dev 0
1
0.5
0
−0.5
−1

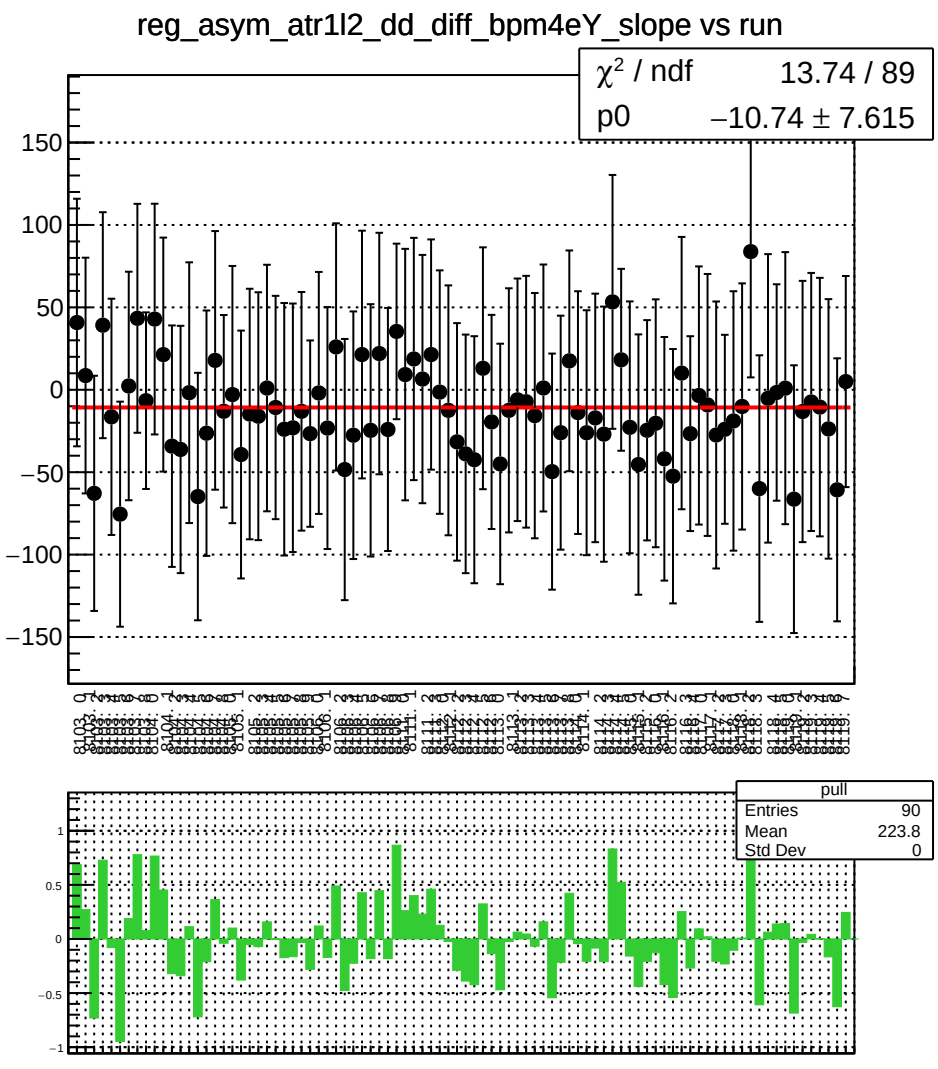

pull1D
Entries 90
Mean −0.005377
Std Dev 0.4508
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

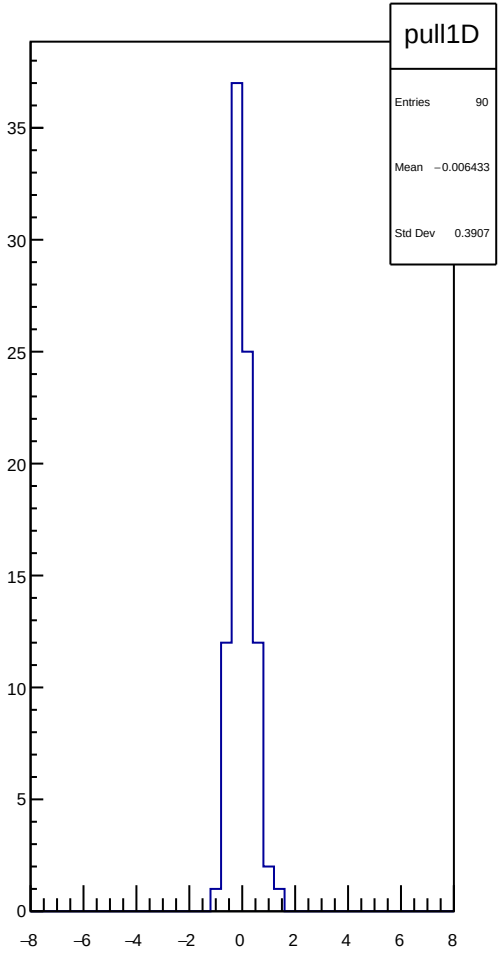

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 112 / 89
p0 −120.6 ± 0.2652
pull
Entries 90
Mean −537.4
Std Dev 0
pull1D
Entries 90
Mean −0.02864
Std Dev 1.115


reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 14.47 / 89
p0 166.4 ± 4.735
pull
Entries 90
Mean −689.3
Std Dev 0
pull1D
Entries 90
Mean 0.002703
Std Dev 0.401


reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.15 / 89
p0 −42.43 ± 7.121
100
50
0
−50
−100
−150
−200
pull
Entries 90
Mean 269.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 90
Mean 0.007451
Std Dev 0.3965
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.56 / 89
p0 −141.8 ± 4.503
pull
Entries 90
Mean −680.6
Std Dev 0
pull1D
Entries 90
Mean −0.003353
Std Dev 0.4023


reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.74 / 89
p0 −10.74 ± 7.615
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 223.8
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 90
Mean −0.006433
Std Dev 0.3907
35
30
25
20
15
10
5
0
−8
−6
−4
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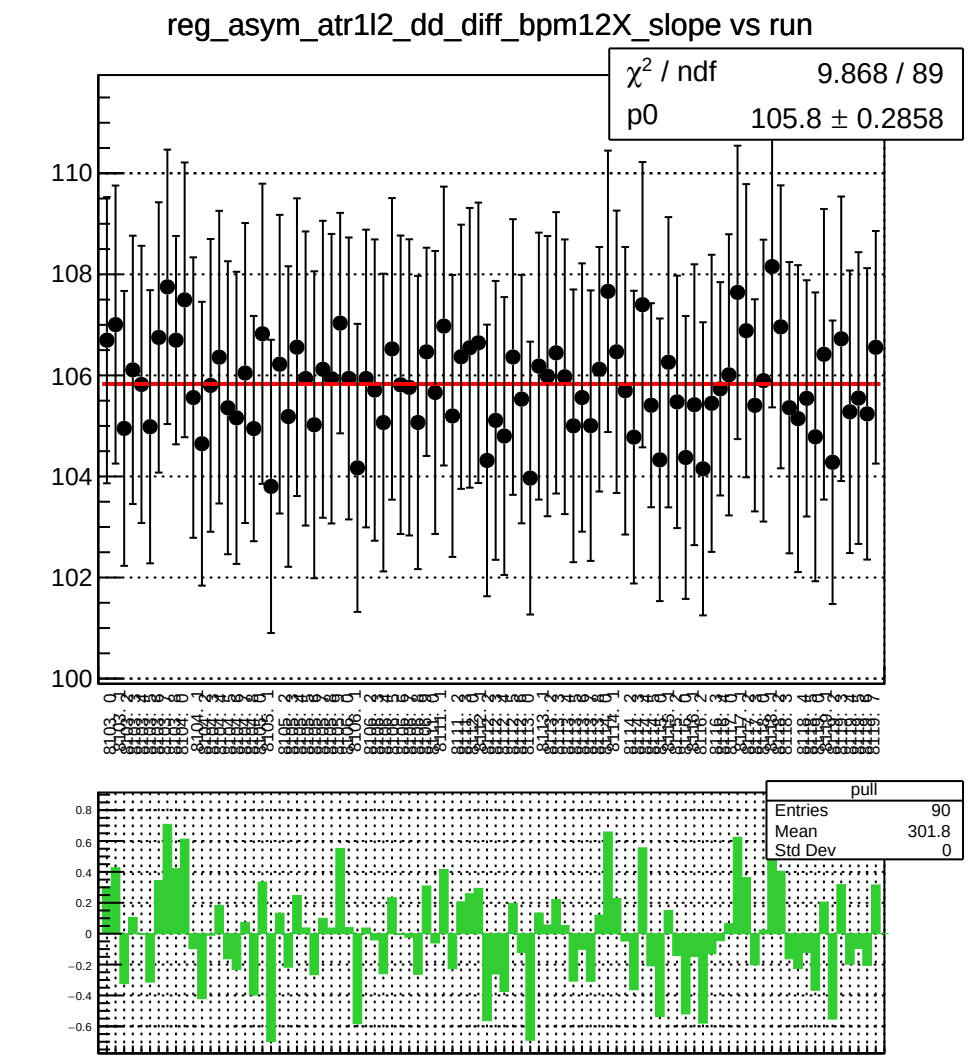
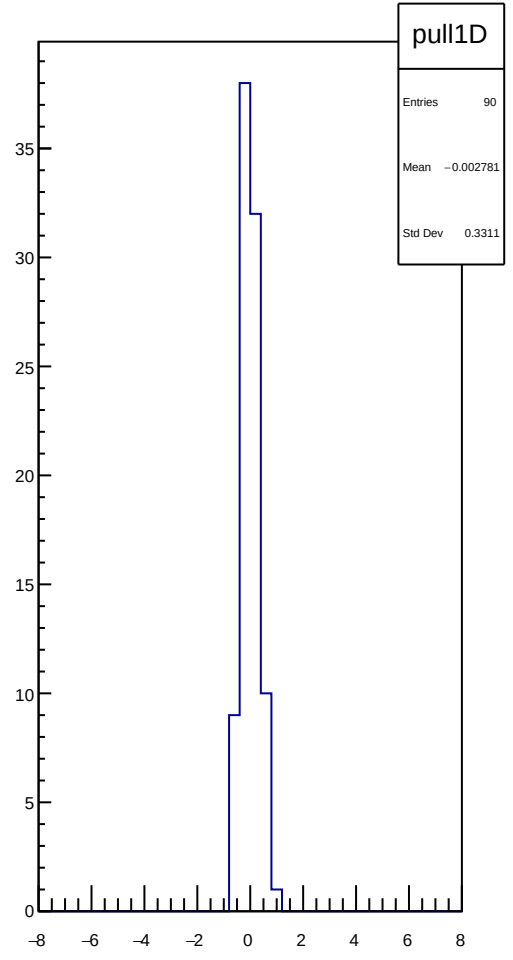
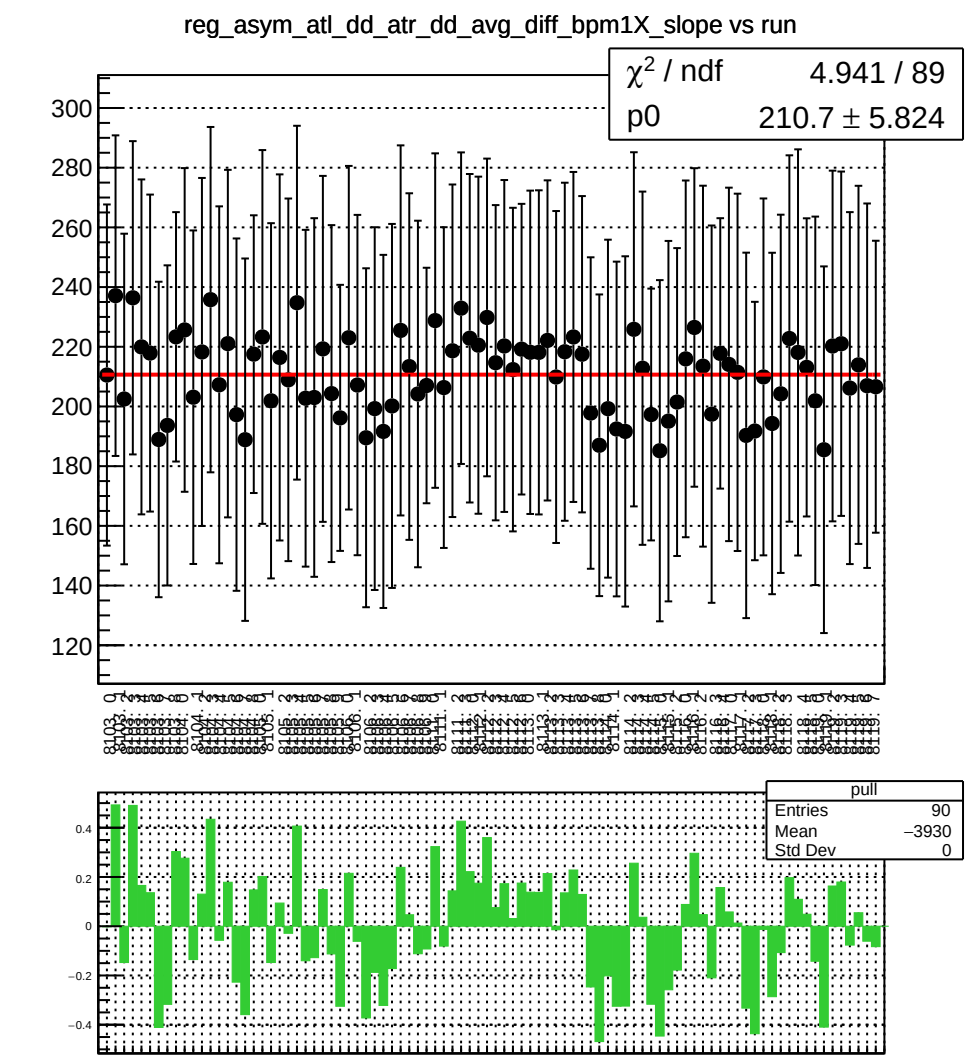
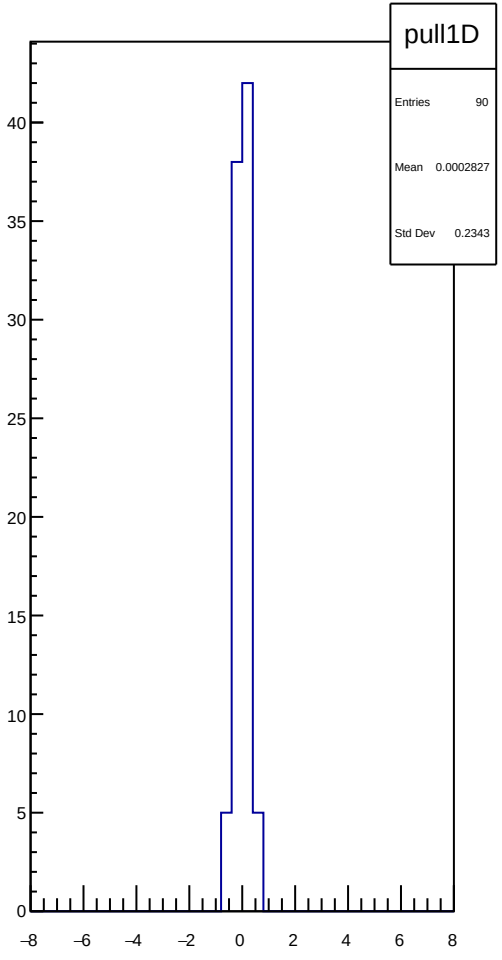
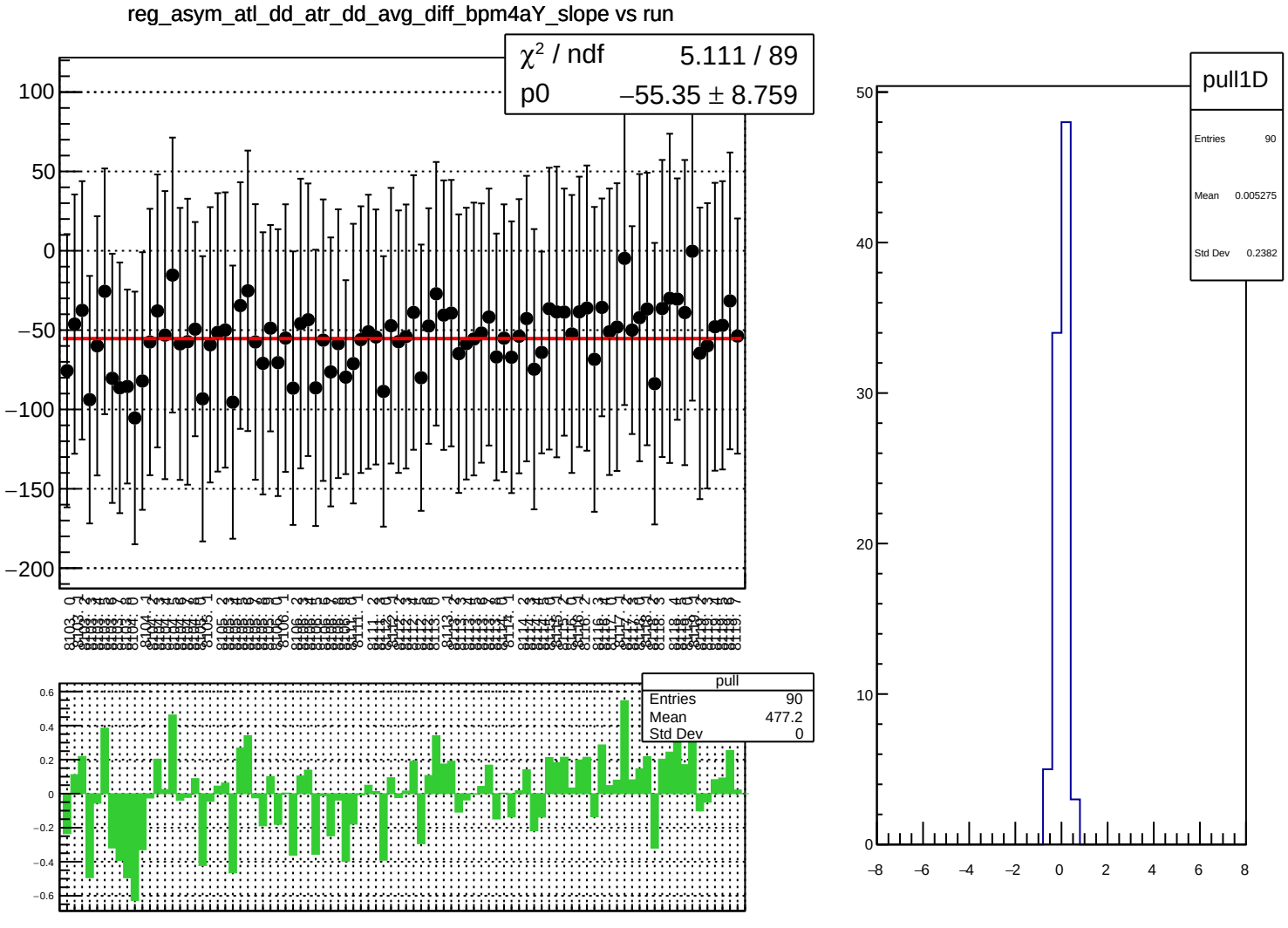
0
2
4
6
8

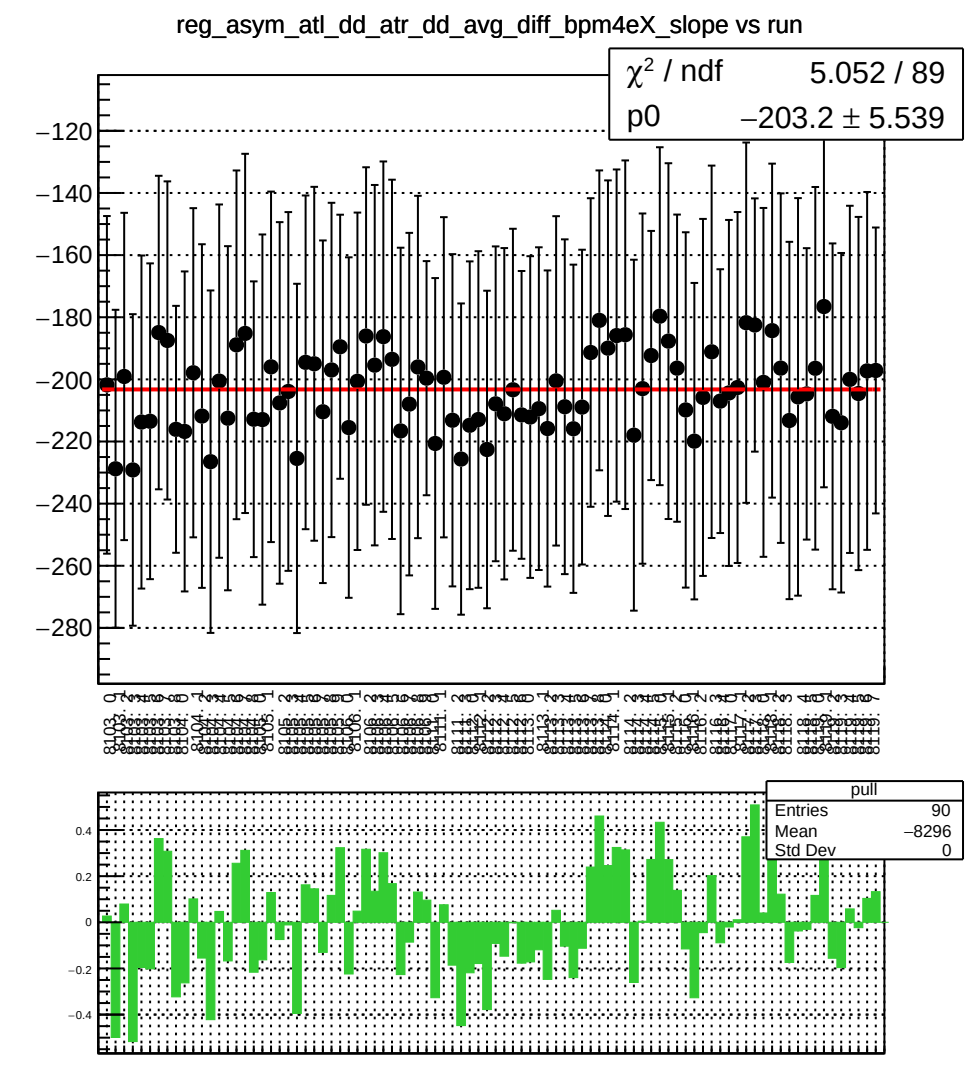

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.868 / 89
p0 105.8 ± 0.2858
pull
Entries 90
Mean 301.8
Std Dev 0

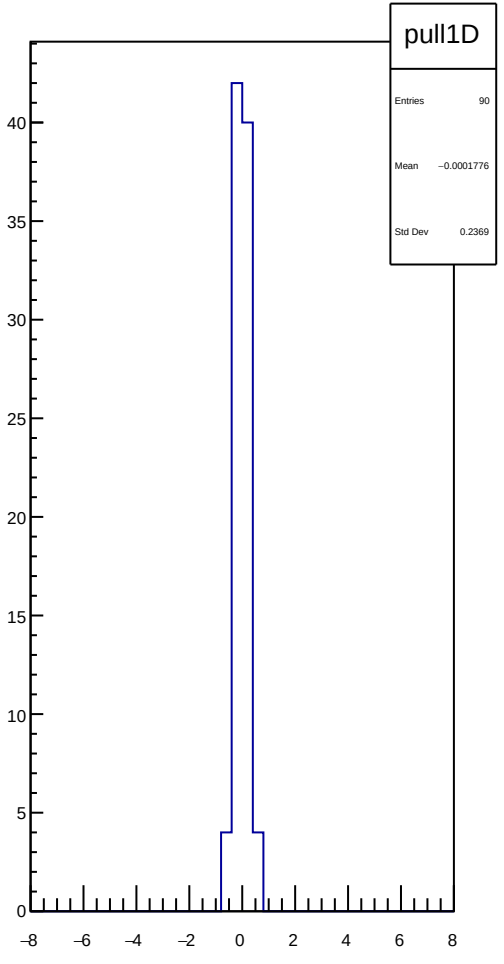

pull1D
Entries 90
Mean −0.002781
Std Dev 0.3311

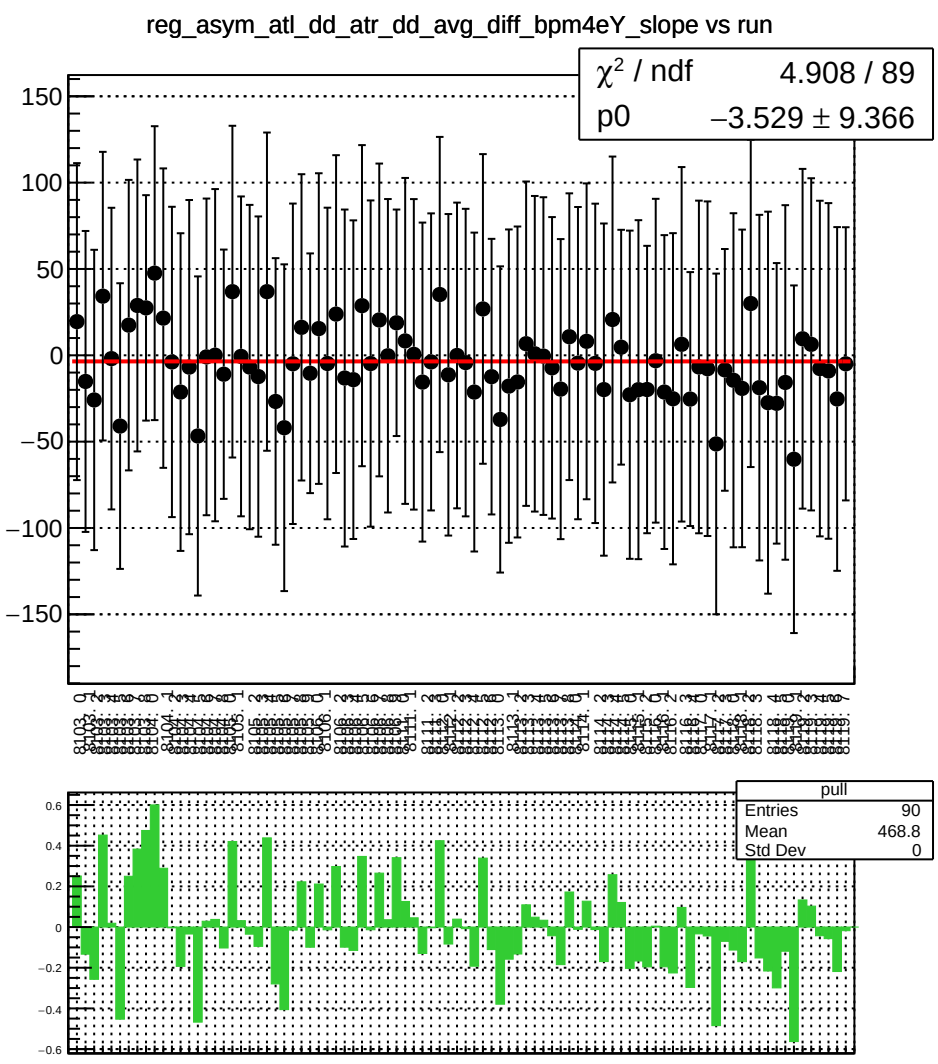

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 4.941 / 89
p0 210.7 ± 5.824
pull
Entries 90
Mean −3930
Std Dev 0

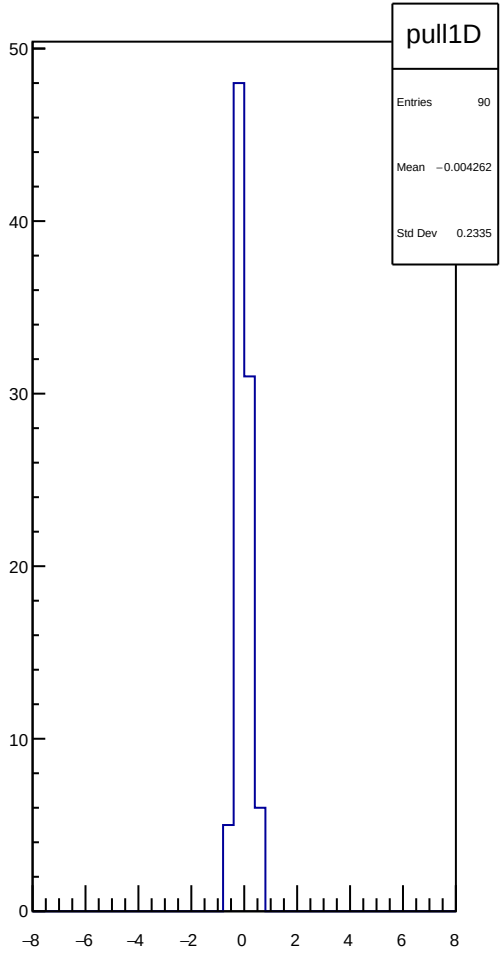

pull1D
Entries 90
Mean 0.0002827
Std Dev 0.2343

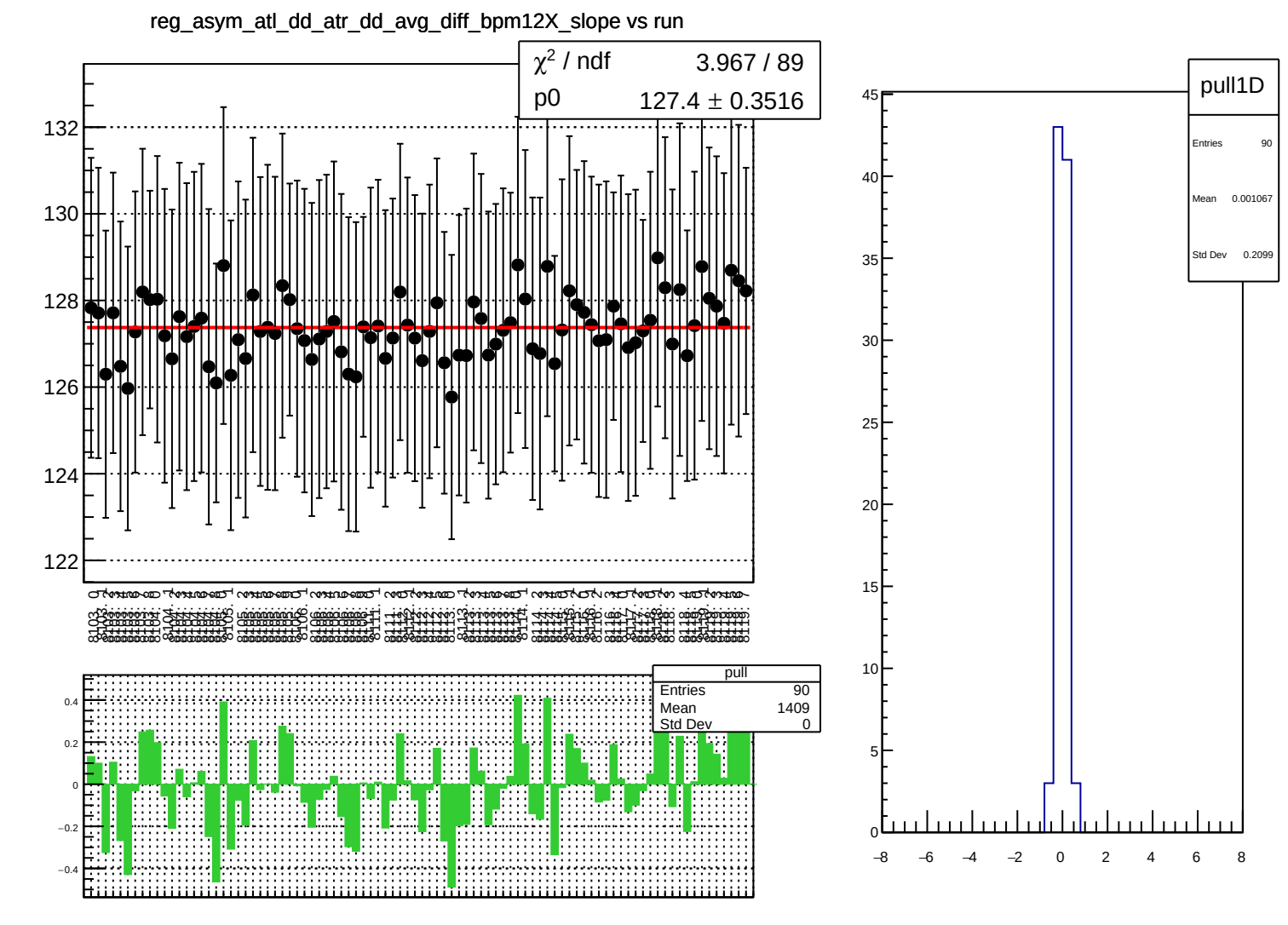

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.111 / 89
p0 −55.35 ± 8.759
pull
Entries 90
Mean 477.2
Std Dev 0
pull1D
Entries 90
Mean 0.005275
Std Dev 0.2382

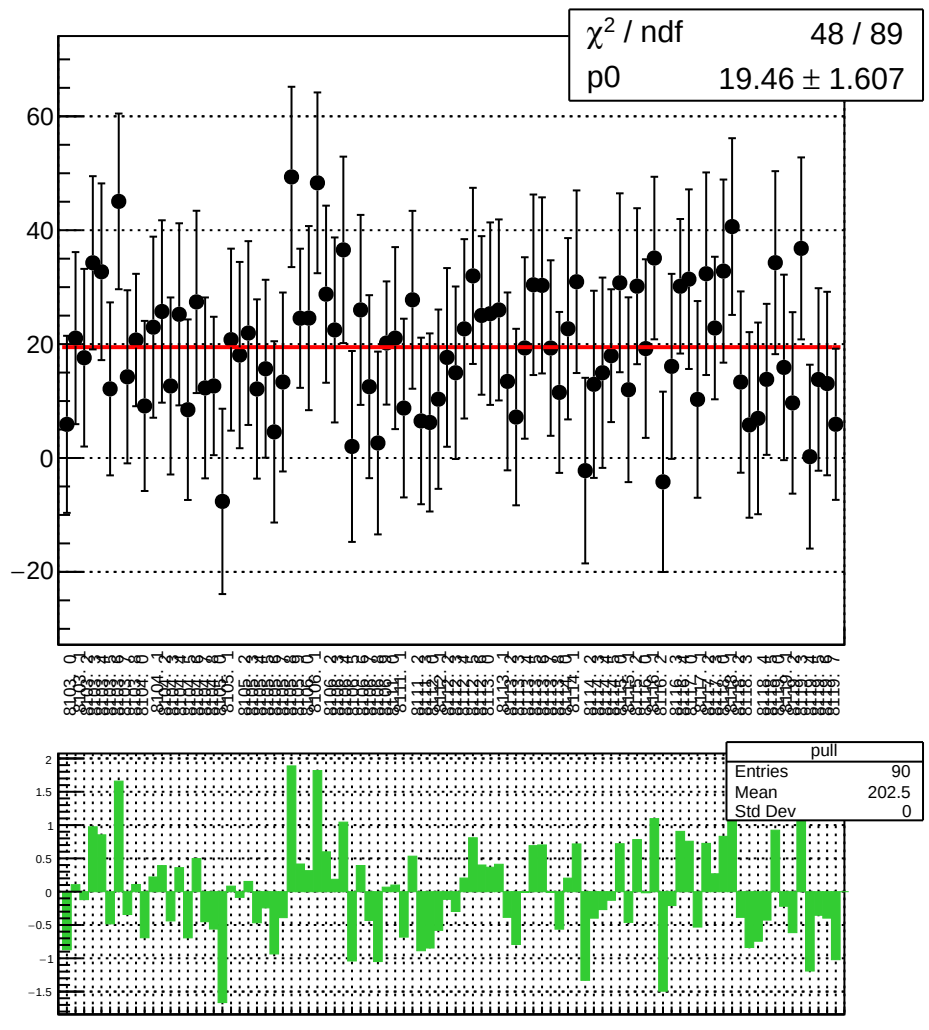

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.052 / 89
p0 −203.2 ± 5.539
−120
−140
−160
−180
−200
−220
−240
−260
−280
pull
Entries 90
Mean −8296
Std Dev 0
0.4
0.2
0
−0.2
−0.4

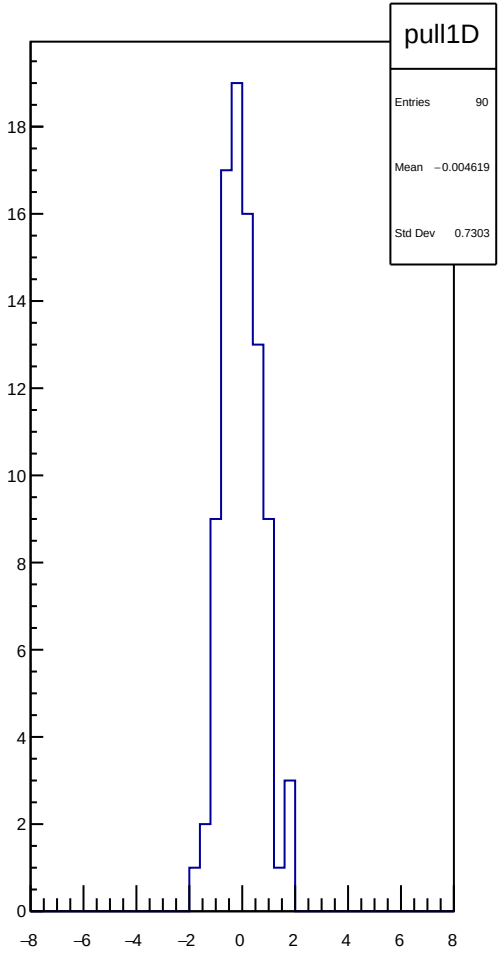

pull1D
Entries 90
Mean −0.0001776
Std Dev 0.2369
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

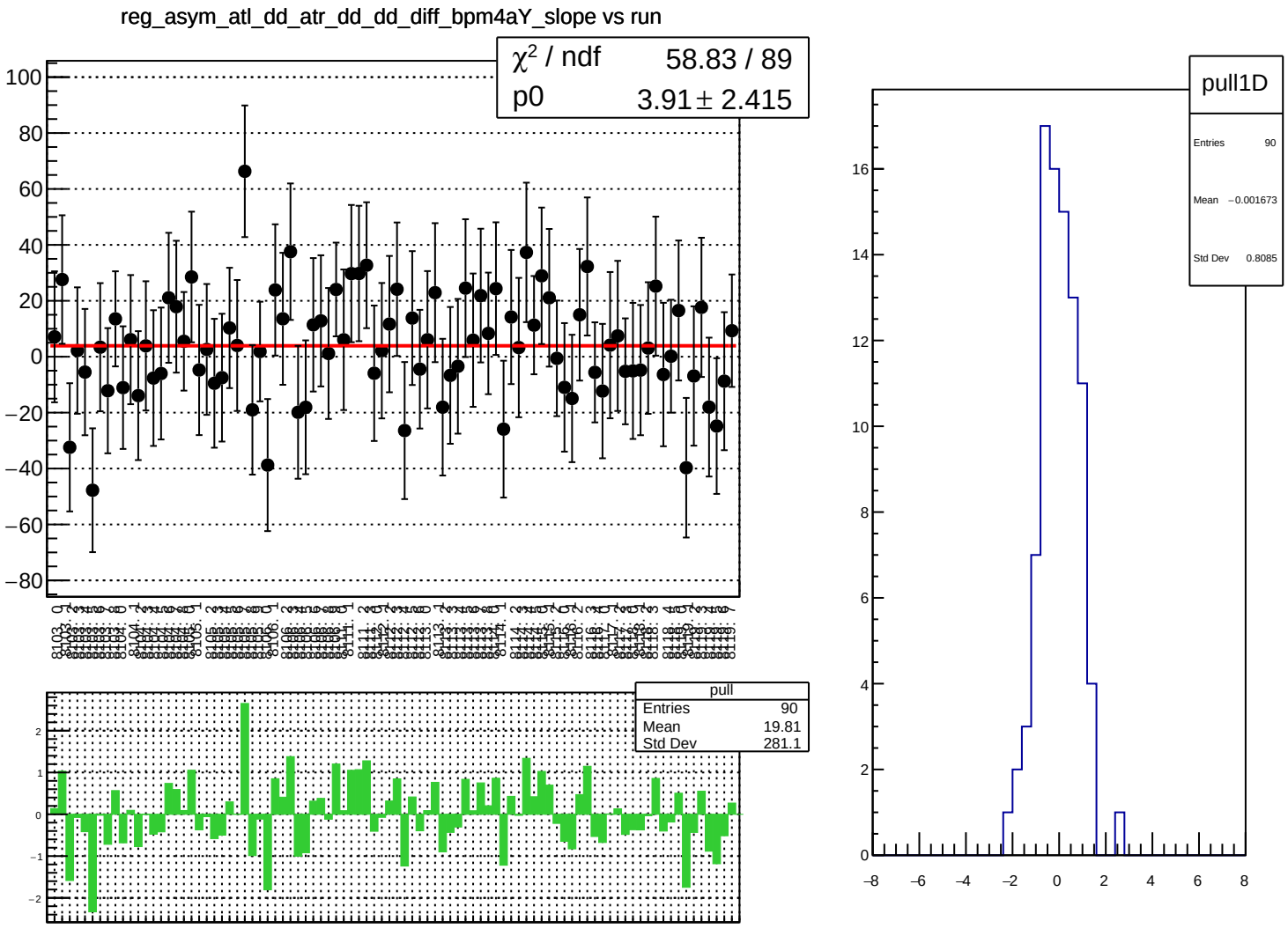

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.908 / 89
p0 −3.529 ± 9.366
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 468.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

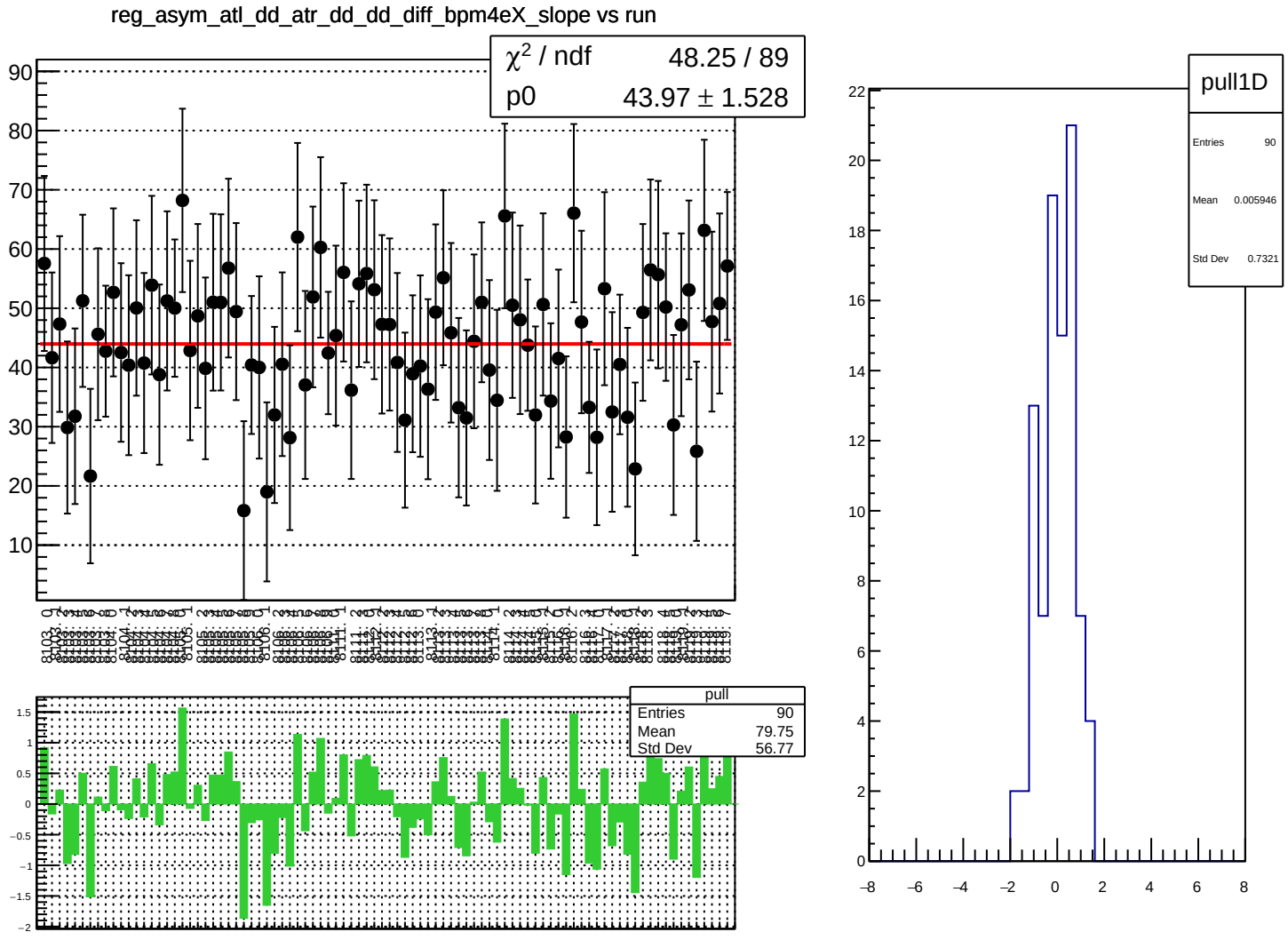

pull1D
Entries 90
Mean −0.004262
Std Dev 0.2335
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

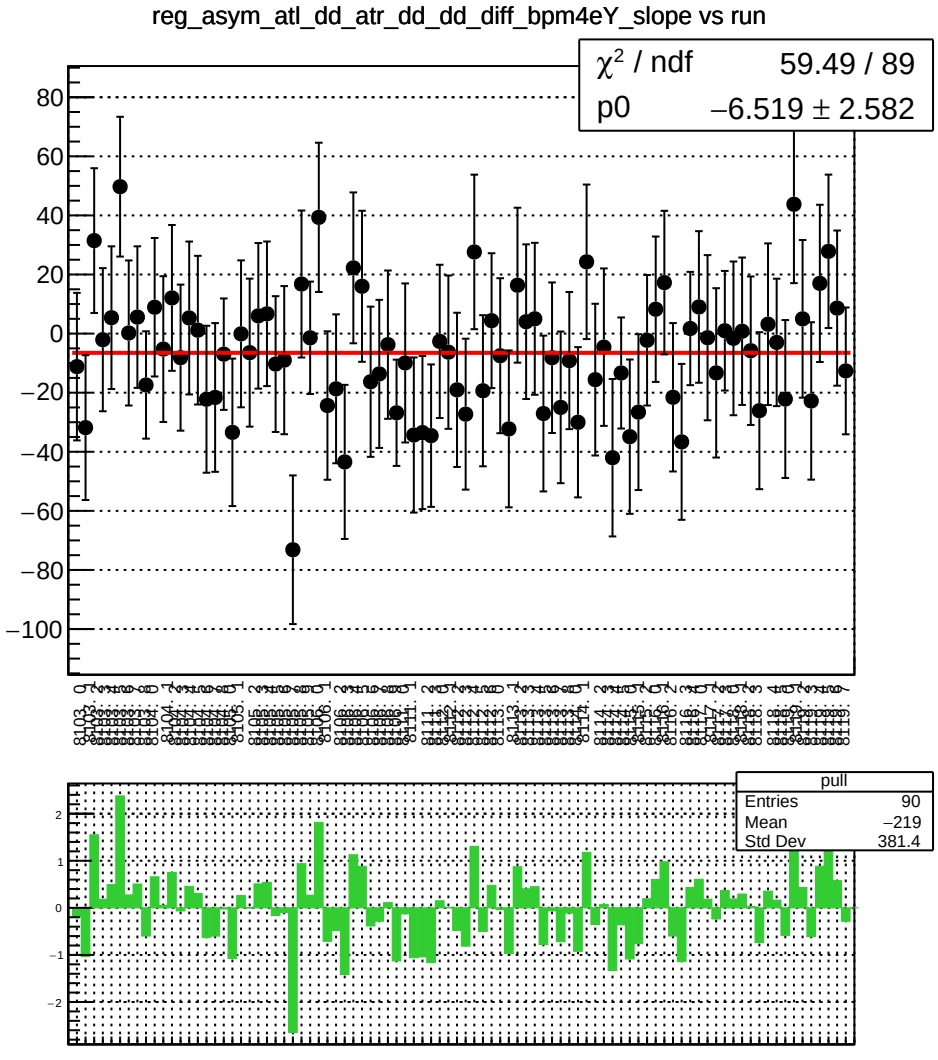

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 3.967 / 89
p0 127.4 ± 0.3516
pull
Entries 90
Mean 1409
Std Dev 0
pull1D
Entries 90
Mean 0.001067
Std Dev 0.2099

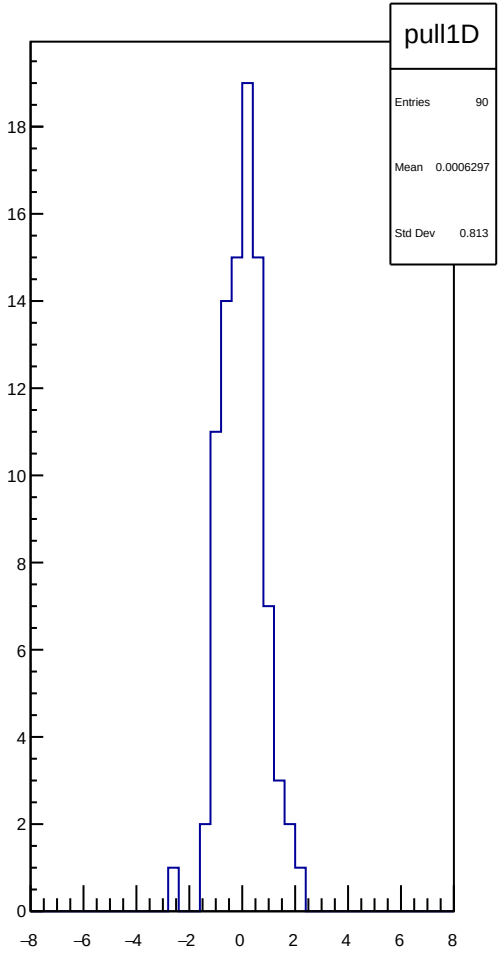

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 48 / 89
p0 19.46 ± 1.607
pull
Entries 90
Mean 202.5
Std Dev 0

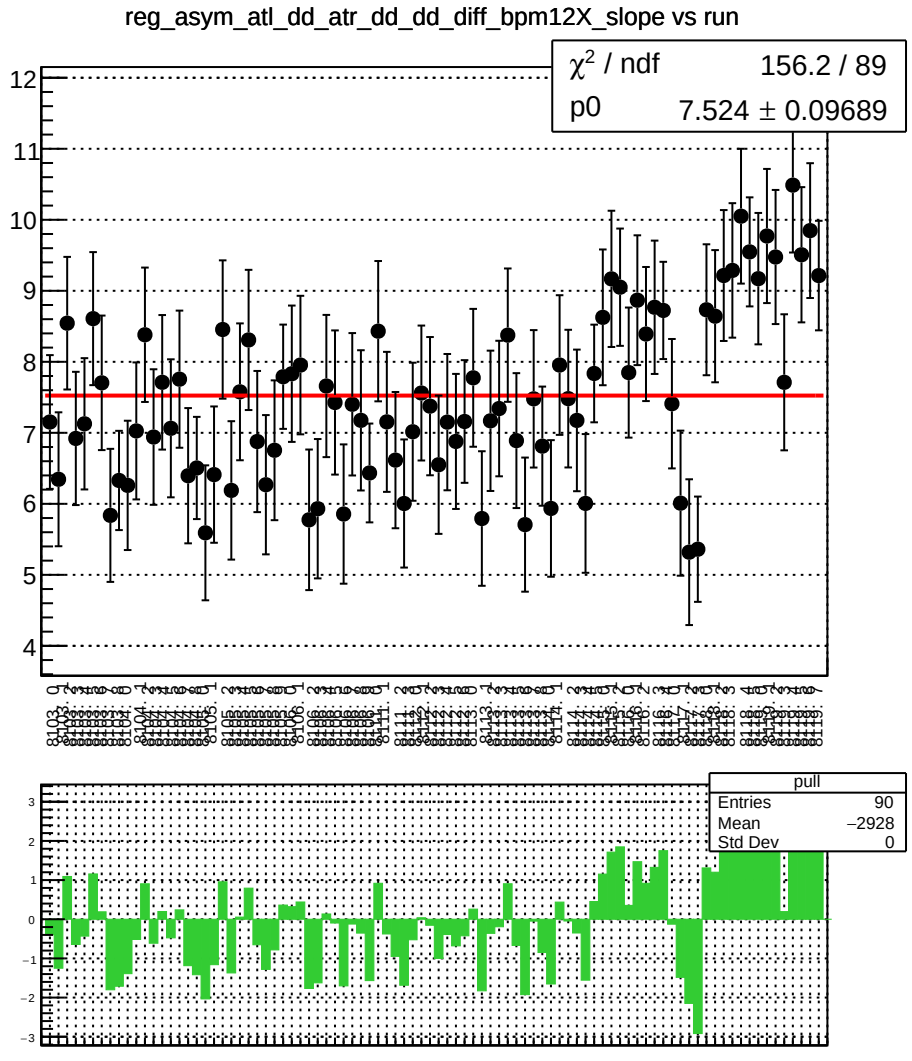

pull1D
Entries 90
Mean −0.004619
Std Dev 0.7303

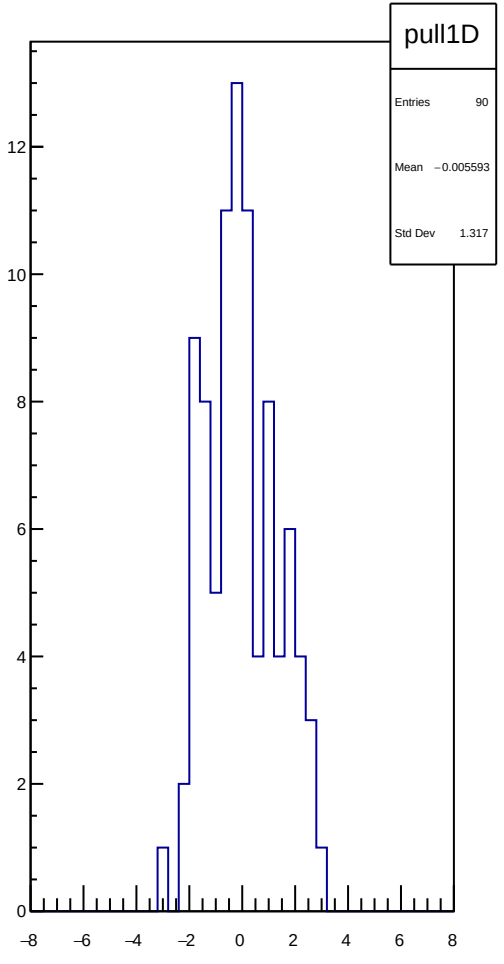

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.83 / 89
p0 3.91 ± 2.415
pull
Entries 90
Mean 19.81
Std Dev 281.1
pull1D
Entries 90
Mean −0.001673
Std Dev 0.8085

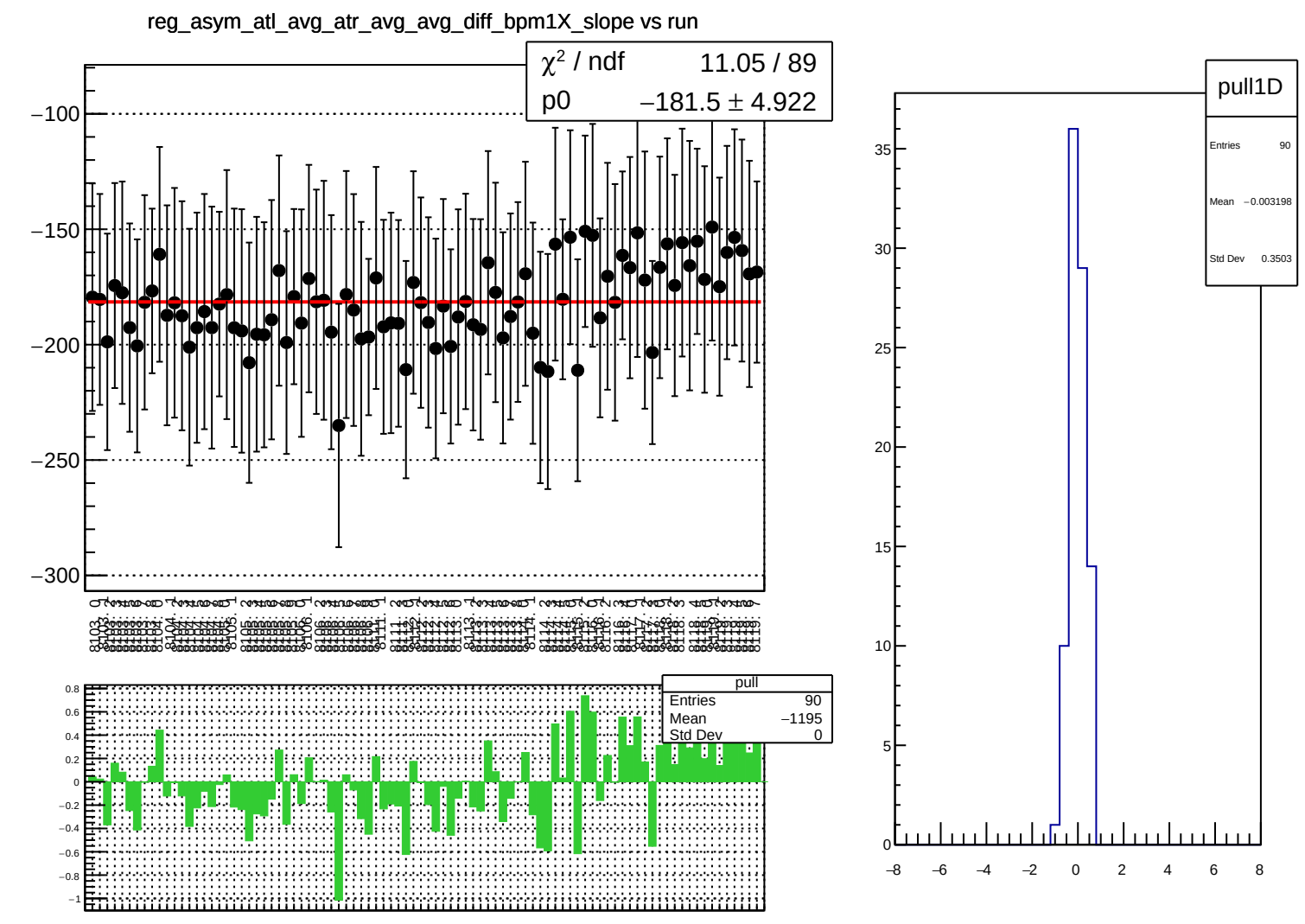

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.25 / 89
p0 43.97 ± 1.528
pull
Entries 90
Mean 79.75
Std Dev 56.77
pull1D
Entries 90
Mean 0.005946
Std Dev 0.7321

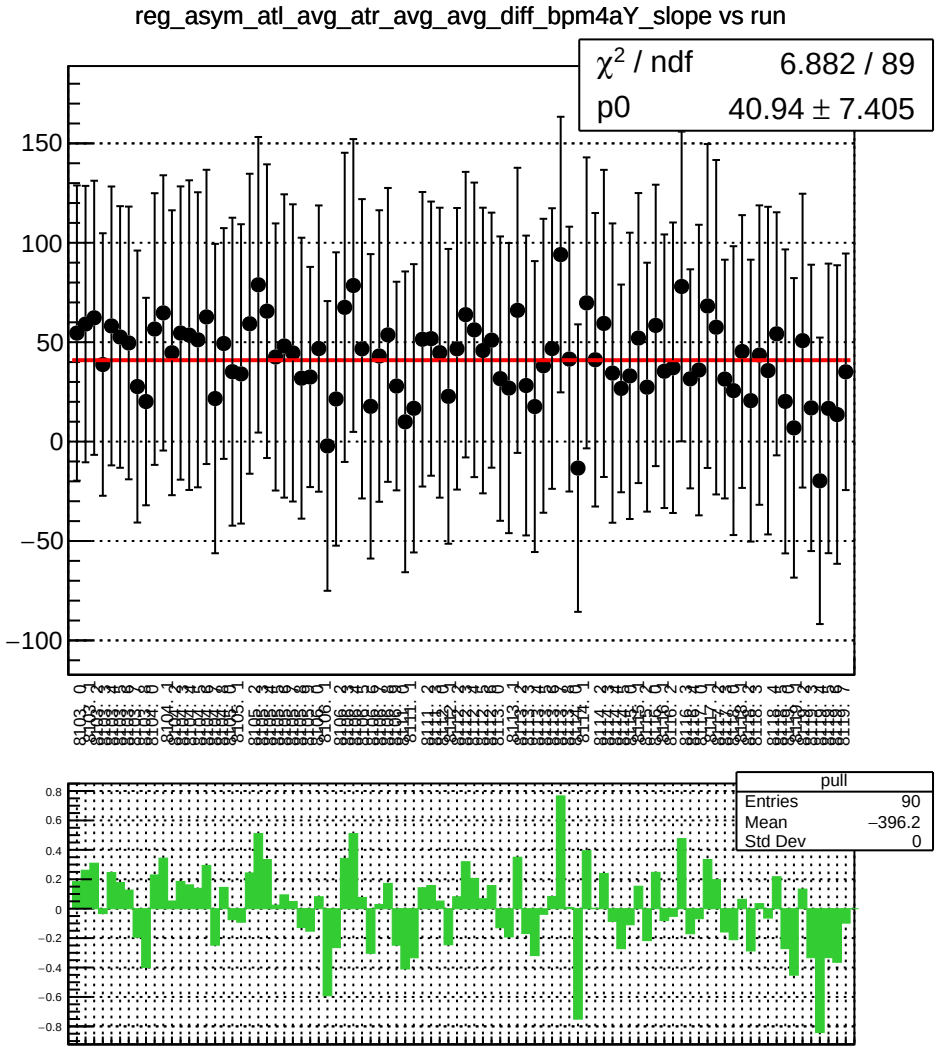

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.49 / 89
p0 −6.519 ± 2.582
pull
Entries 90
Mean −219
Std Dev 381.4

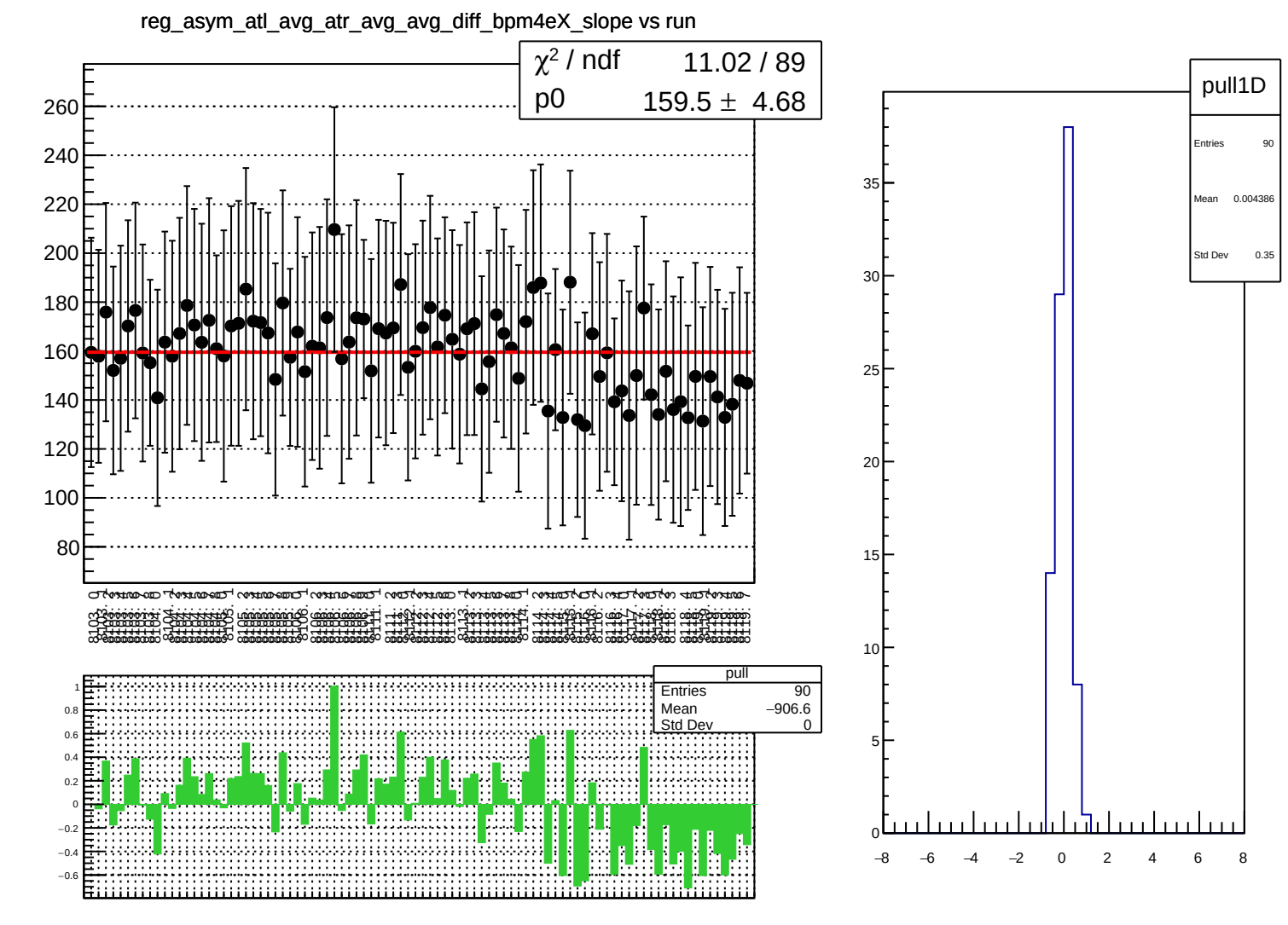

pull1D
Entries 90
Mean 0.0006297
Std Dev 0.813

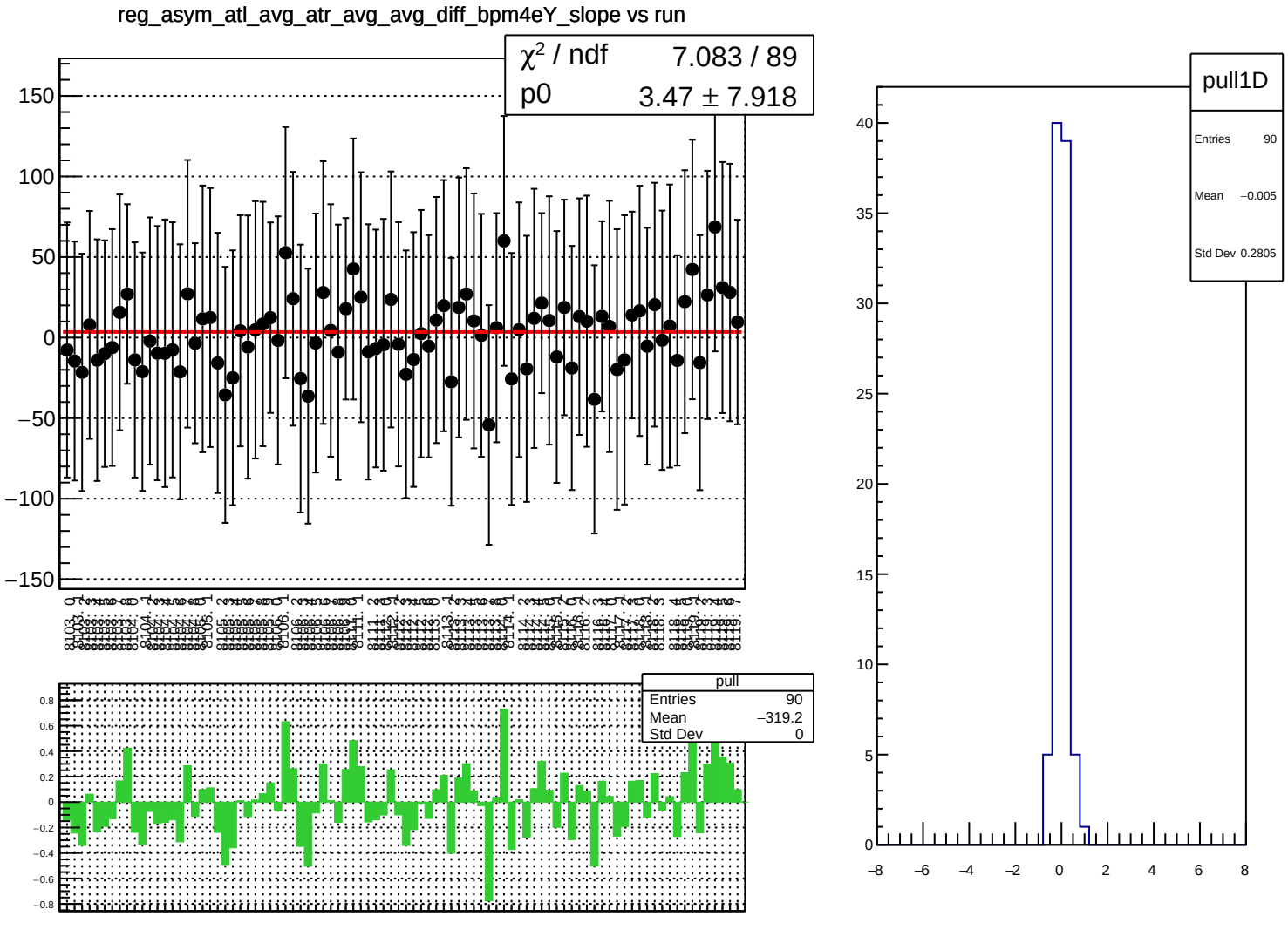

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 156.2 / 89
p0 7.524 ± 0.09689
pull
Entries 90
Mean −2928
Std Dev 0

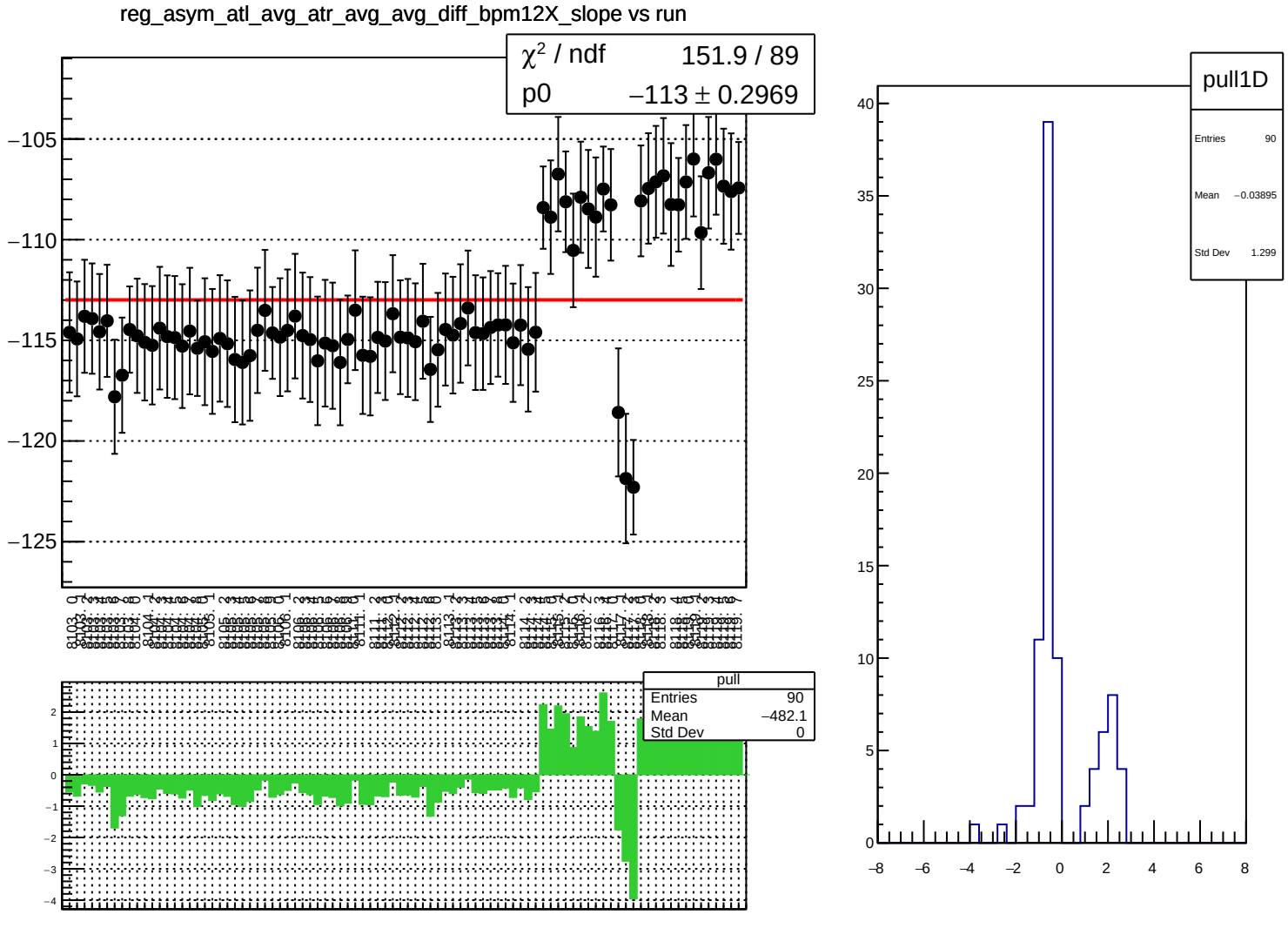

pull1D
Entries 90
Mean −0.005593
Std Dev 1.317

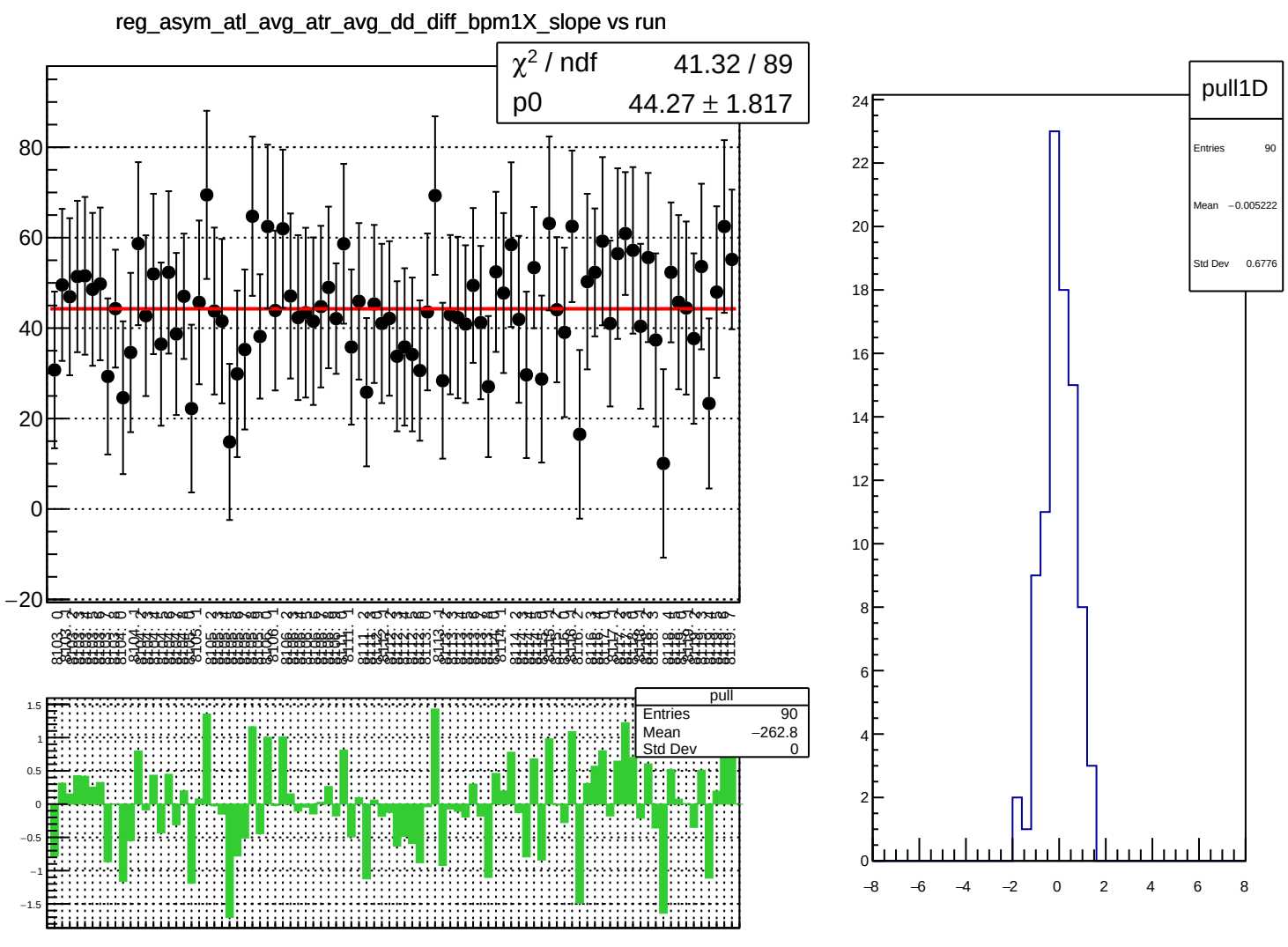

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.05 / 89
p0 −181.5 ± 4.922
−100
−150
−200
−250
−300
pull
Entries 90
Mean −1195
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 90
Mean −0.003198
Std Dev 0.3503
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

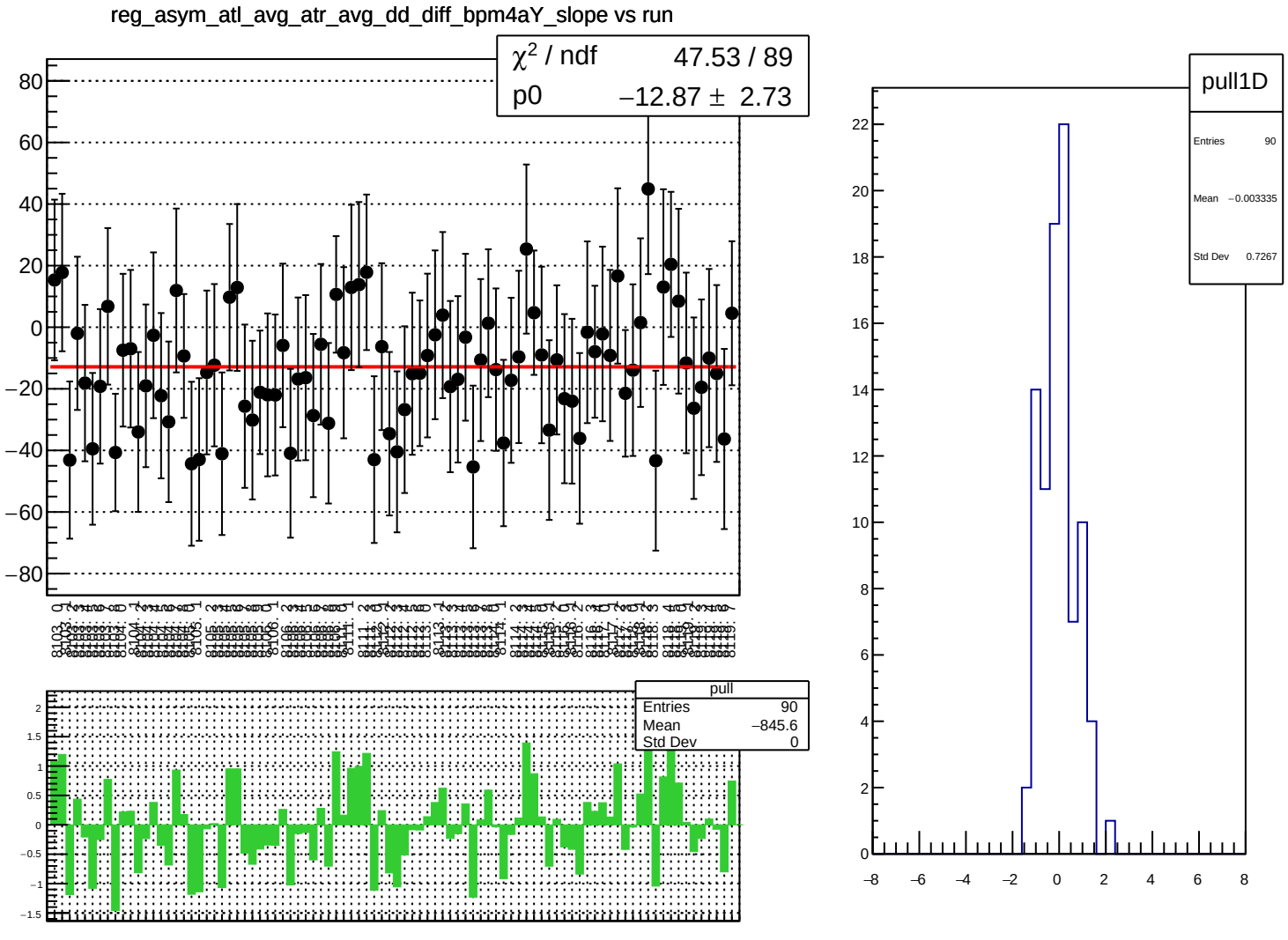

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.882 / 89
p0 40.94 ± 7.405
150
100
50
0
−50
−100
pull
Entries 90
Mean −396.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 90
Mean 0.004634
Std Dev 0.2765
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

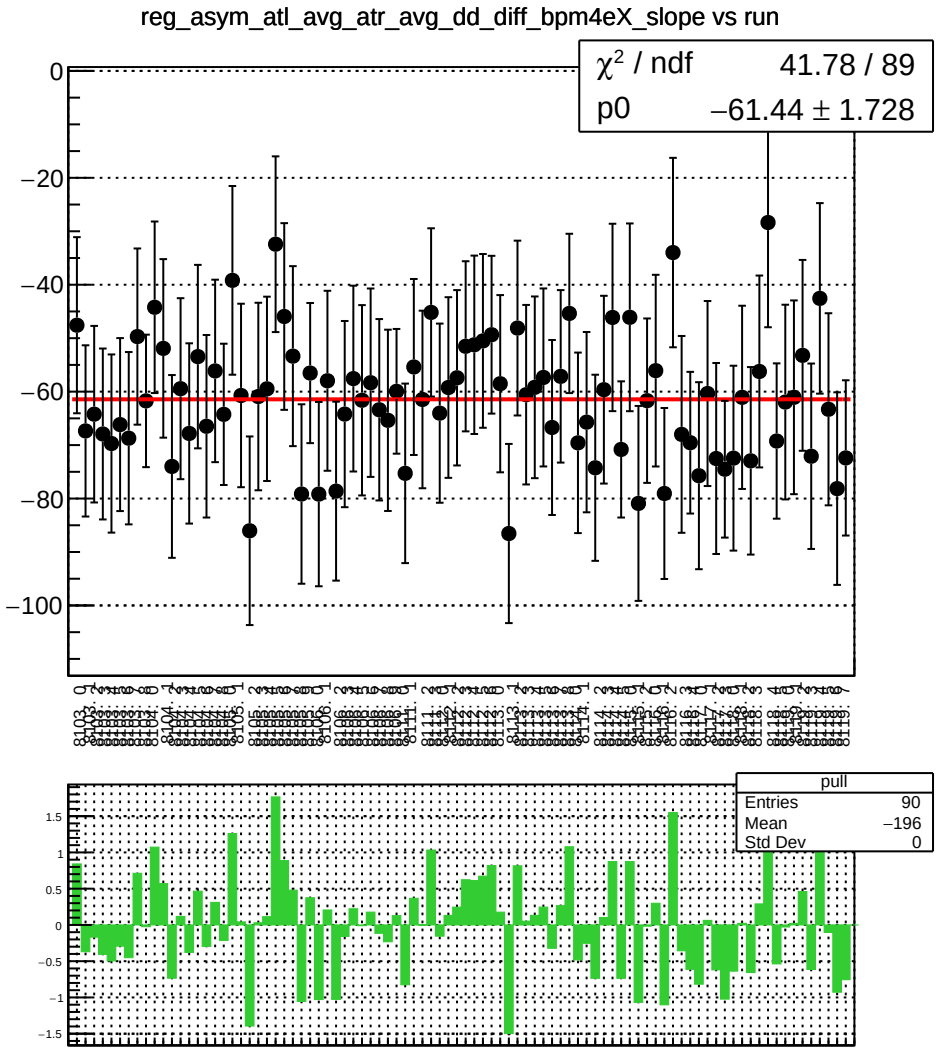

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.02 / 89
p0 159.5 ± 4.68
pull
Entries 90
Mean –906.6
Std Dev 0
pull1D
Entries 90
Mean 0.004386
Std Dev 0.35

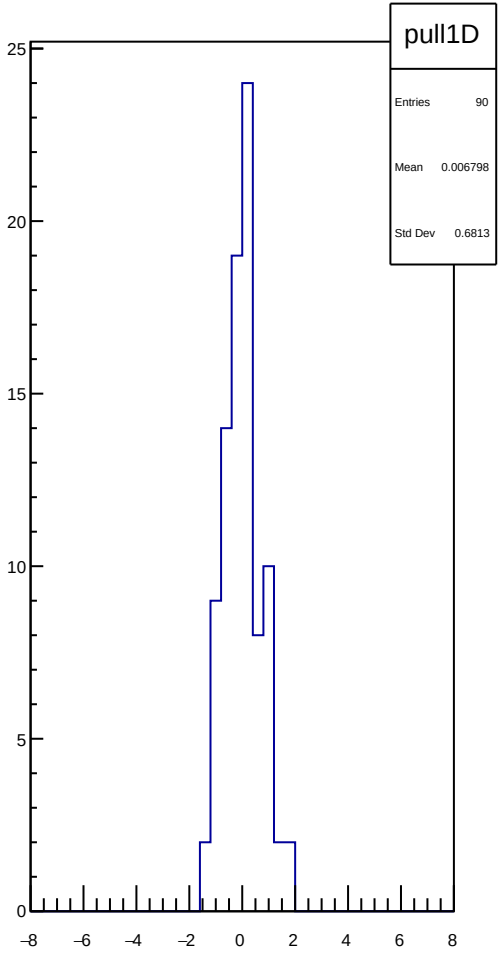

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.083 / 89
p0 3.47 ± 7.918
pull
Entries 90
Mean −319.2
Std Dev 0
pull1D
Entries 90
Mean −0.005
Std Dev 0.2805

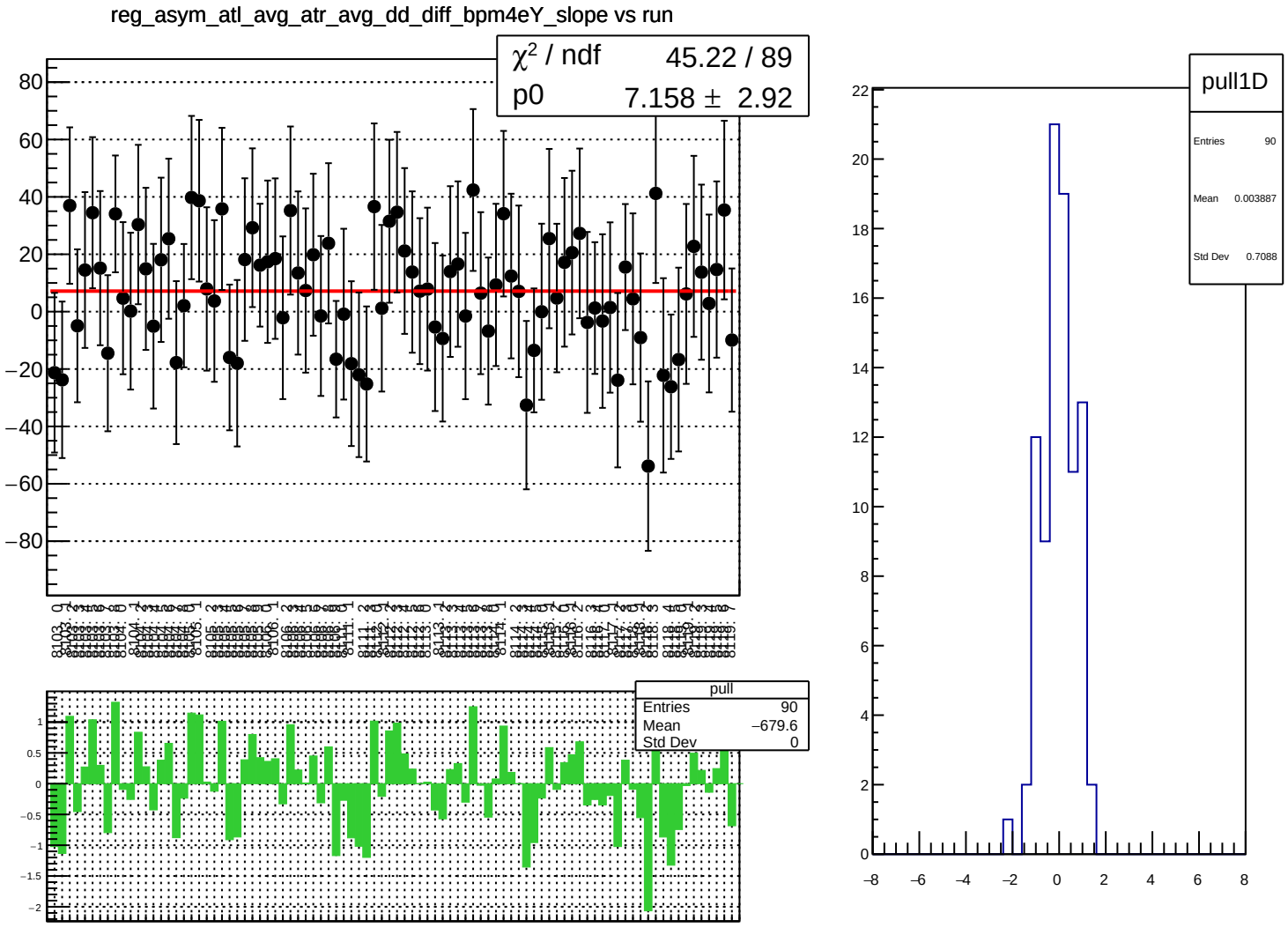

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 151.9 / 89
p0 −113 ± 0.2969
−105
−110
−115
−120
−125
pull
Entries 90
Mean −482.1
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean −0.03895
Std Dev 1.299
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

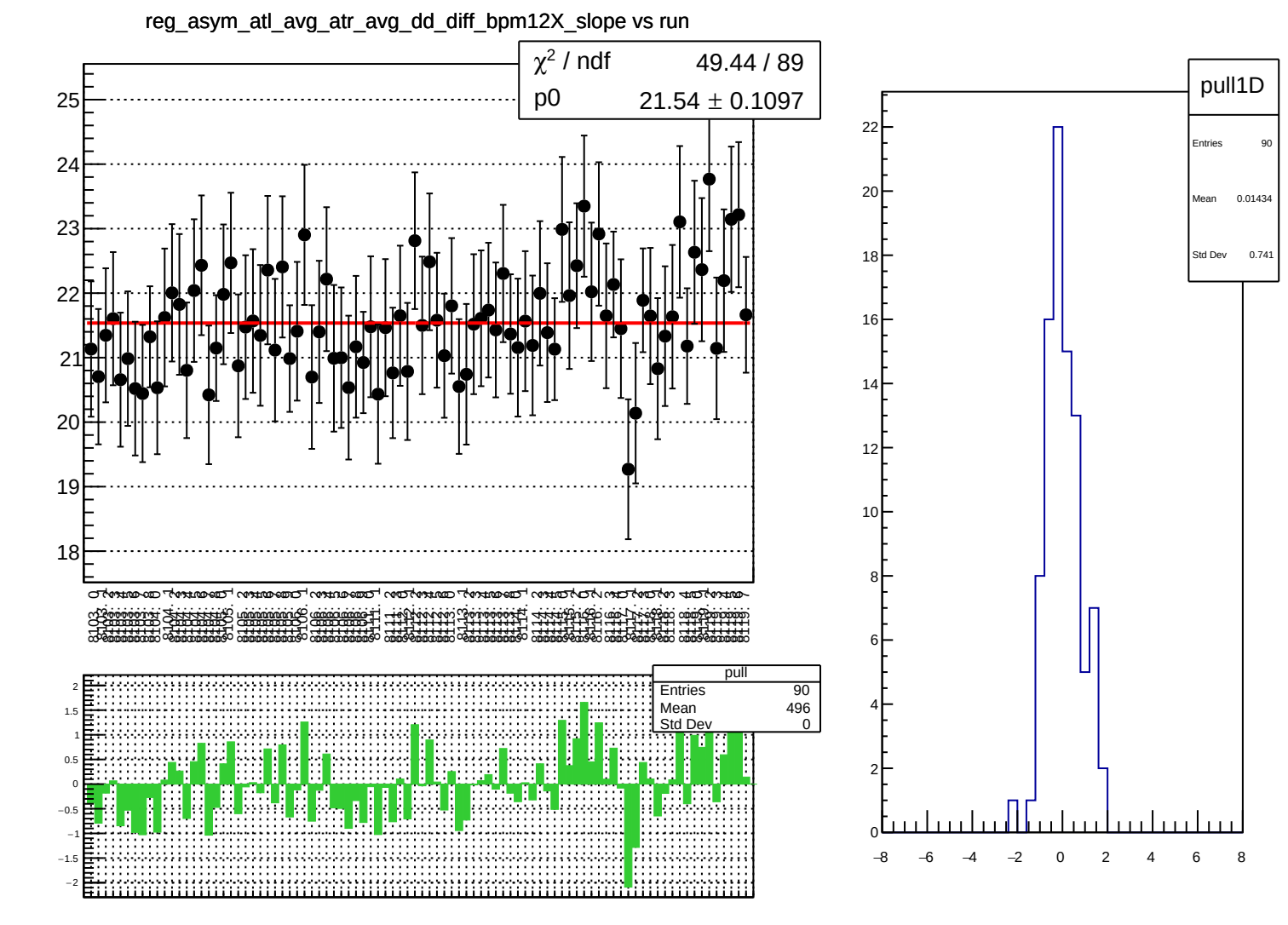

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 41.32 / 89
p0 44.27 ± 1.817
pull
Entries 90
Mean −262.8
Std Dev 0
pull1D
Entries 90
Mean −0.005222
Std Dev 0.6776

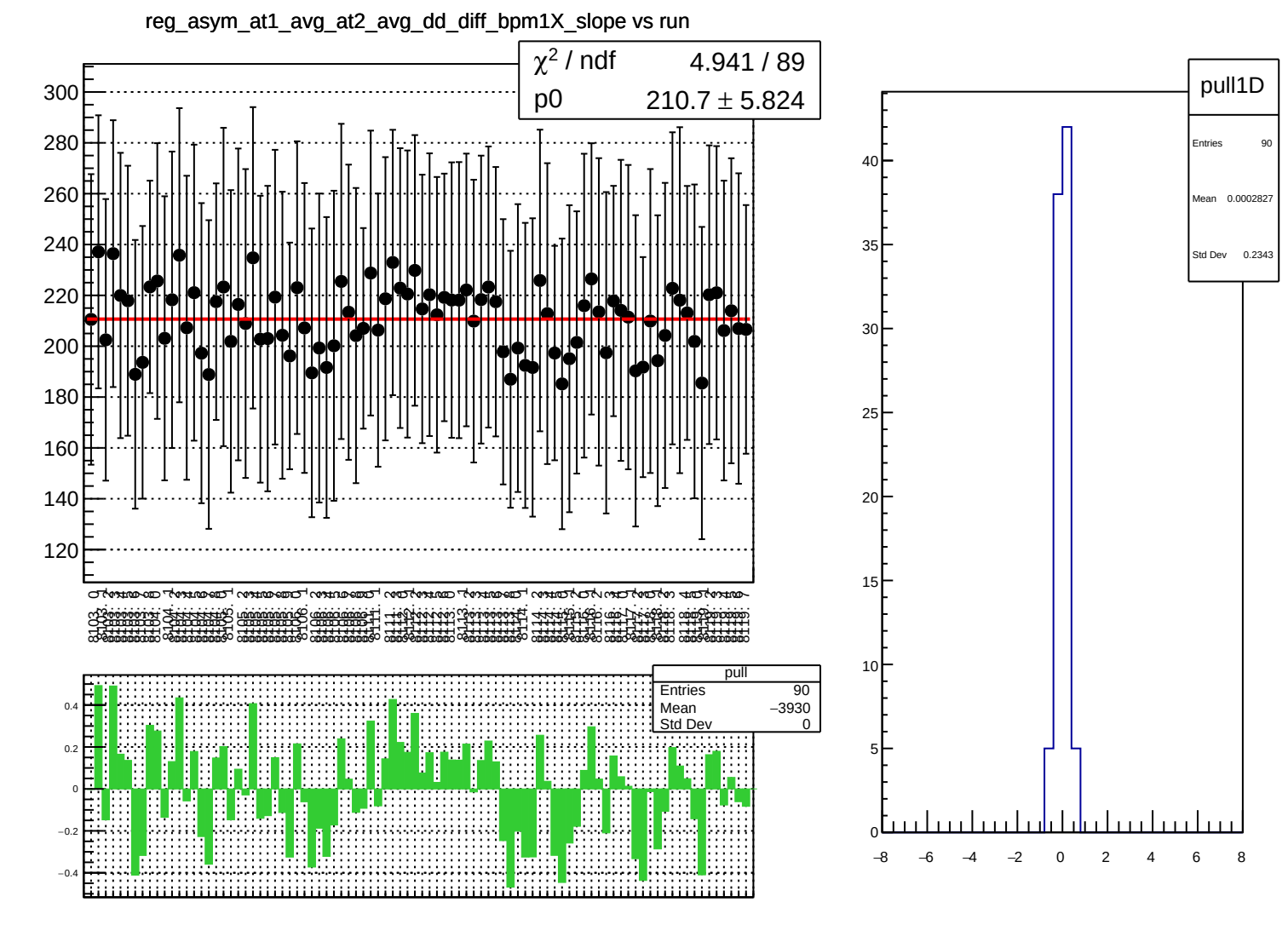

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.53 / 89
p0 −12.87 ± 2.73
pull
Entries 90
Mean −845.6
Std Dev 0
pull1D
Entries 90
Mean −0.003335
Std Dev 0.7267

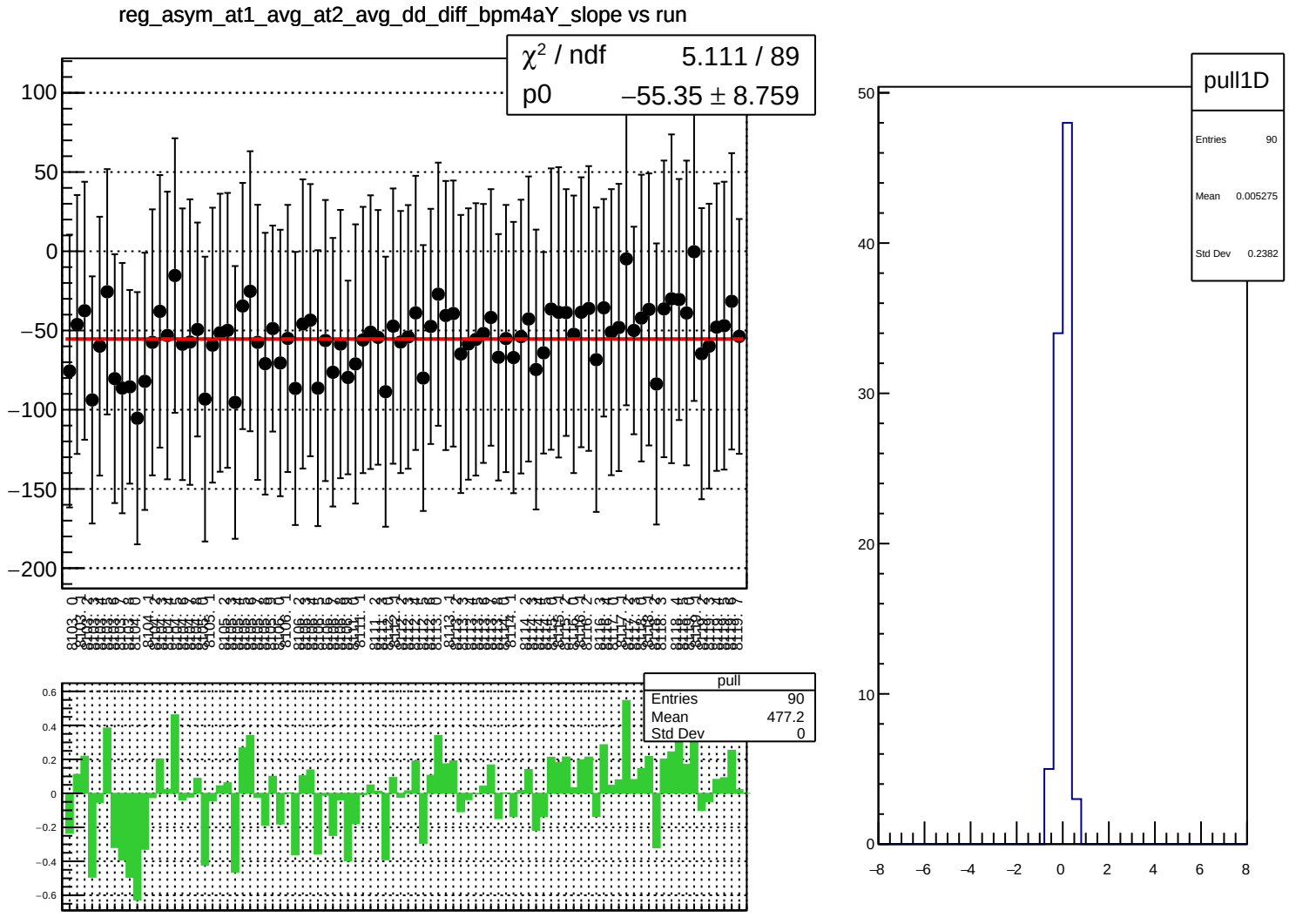

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.78 / 89
p0 −61.44 ± 1.728
pull
Entries 90
Mean −196
Std Dev 0

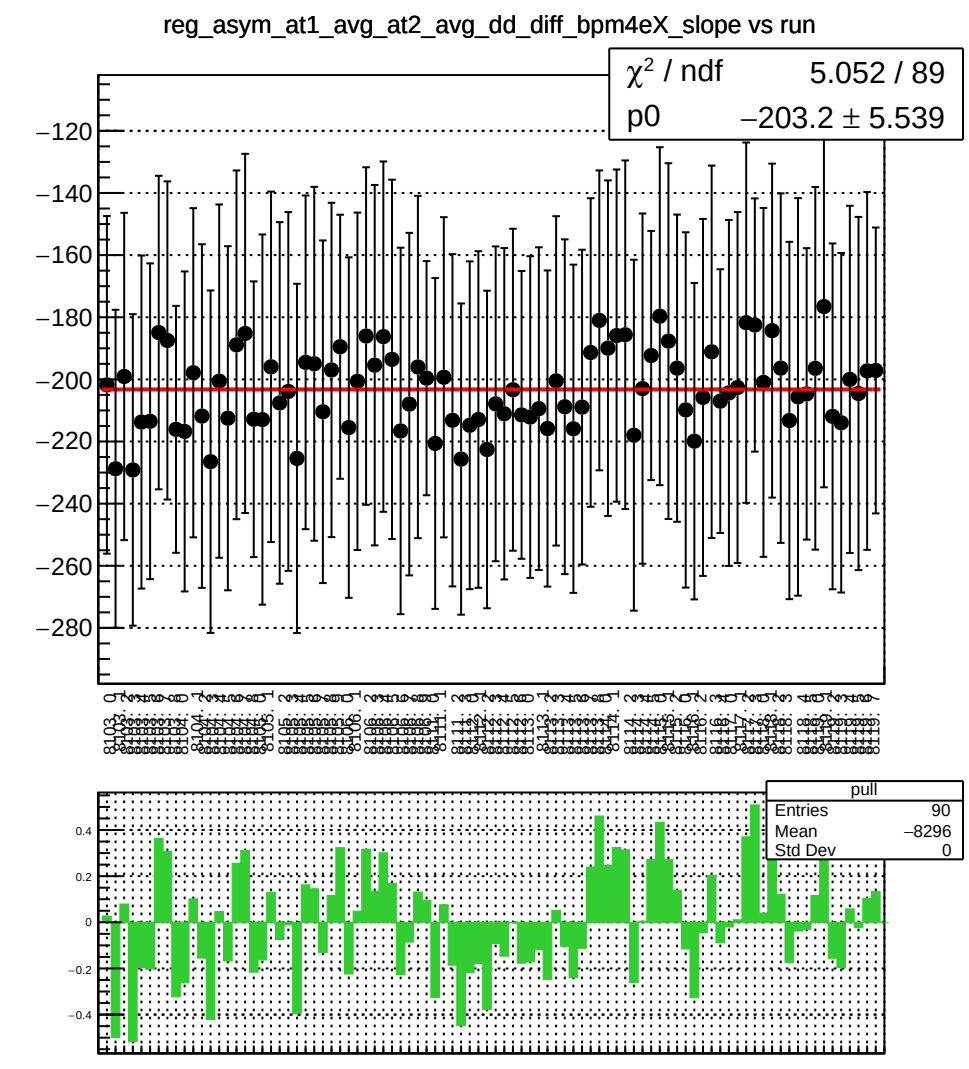

pull1D
Entries 90
Mean 0.006798
Std Dev 0.6813

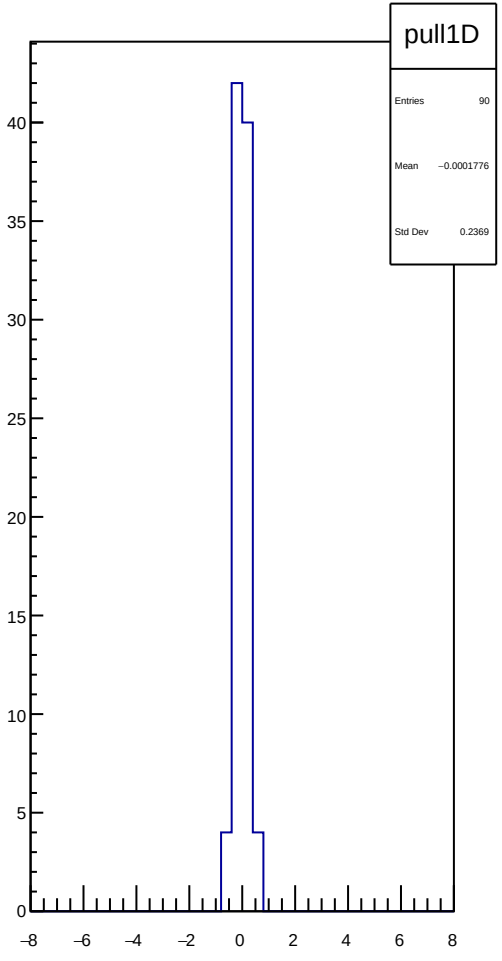

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.22 / 89
p0 7.158 ± 2.92
pull
Entries 90
Mean −679.6
Std Dev 0
pull1D
Entries 90
Mean 0.003887
Std Dev 0.7088

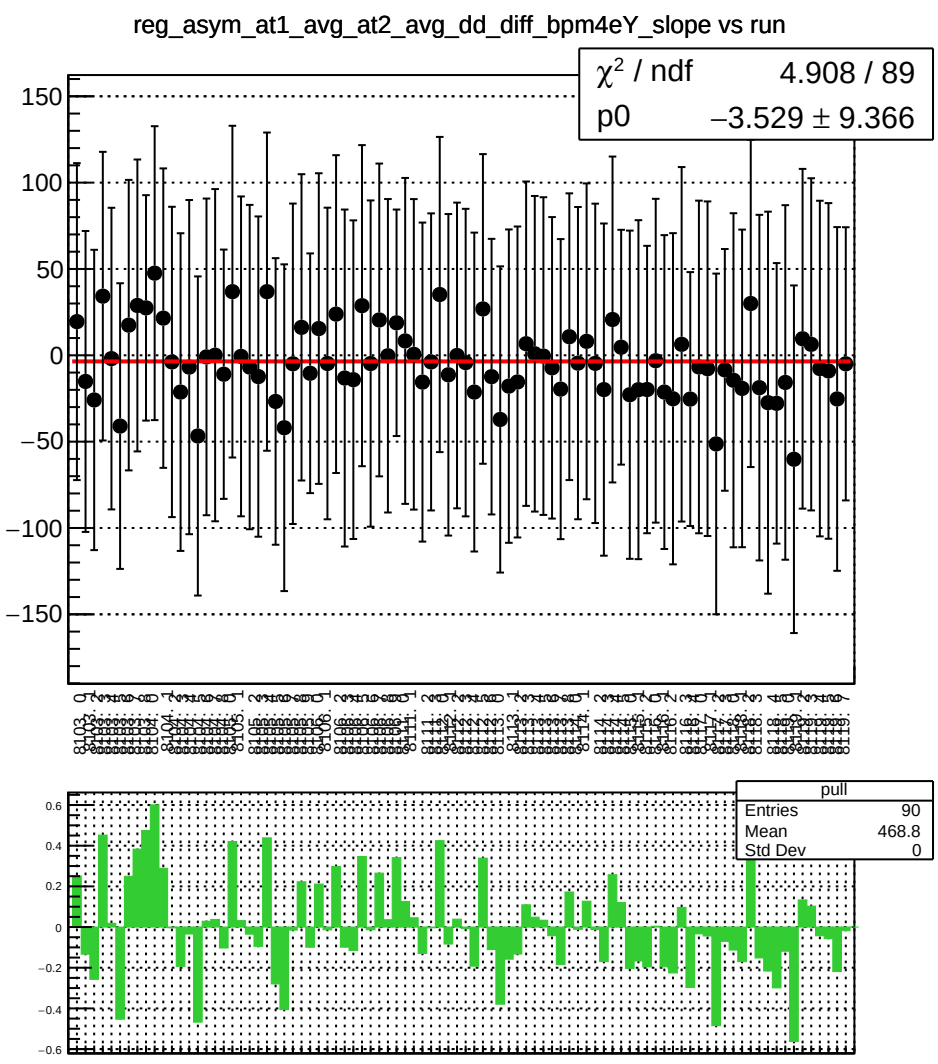

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 49.44 / 89
p0 21.54 ± 0.1097
pull
Entries 90
Mean 496
Std Dev 0
pull1D
Entries 90
Mean 0.01434
Std Dev 0.741

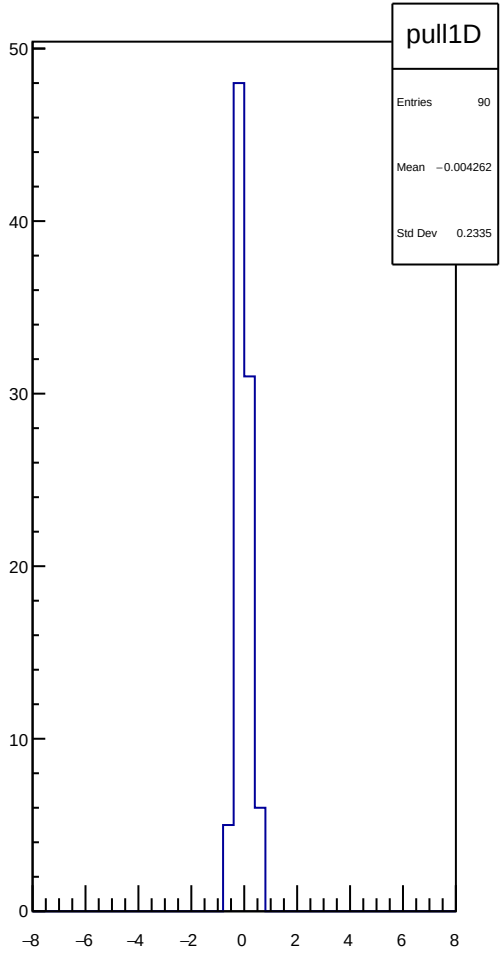

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.941 / 89
p0 210.7 ± 5.824
pull
Entries 90
Mean −3930
Std Dev 0
pull1D
Entries 90
Mean 0.0002827
Std Dev 0.2343

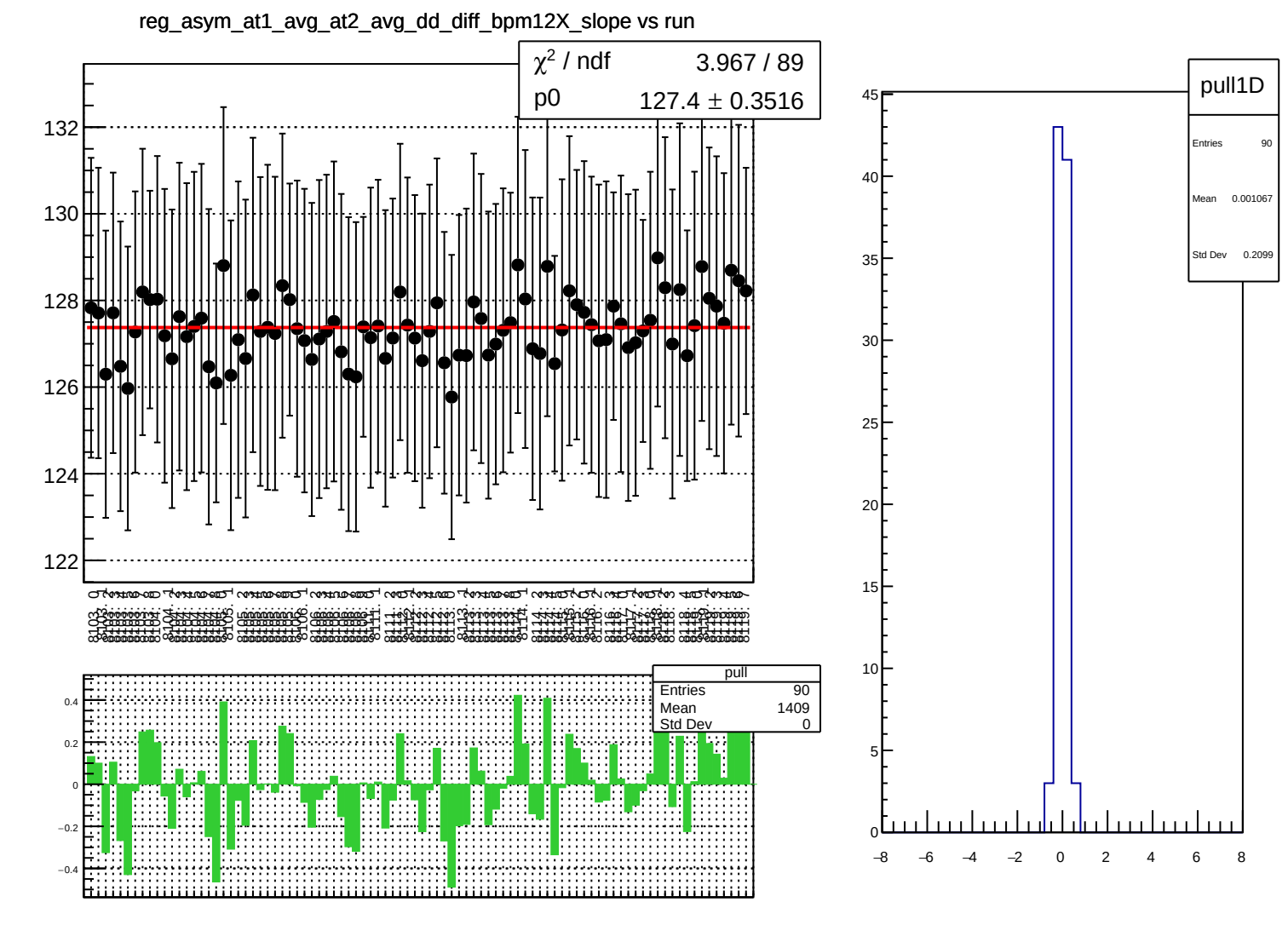

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.111 / 89
p0 −55.35 ± 8.759
pull
Entries 90
Mean 477.2
Std Dev 0
pull1D
Entries 90
Mean 0.005275
Std Dev 0.2382

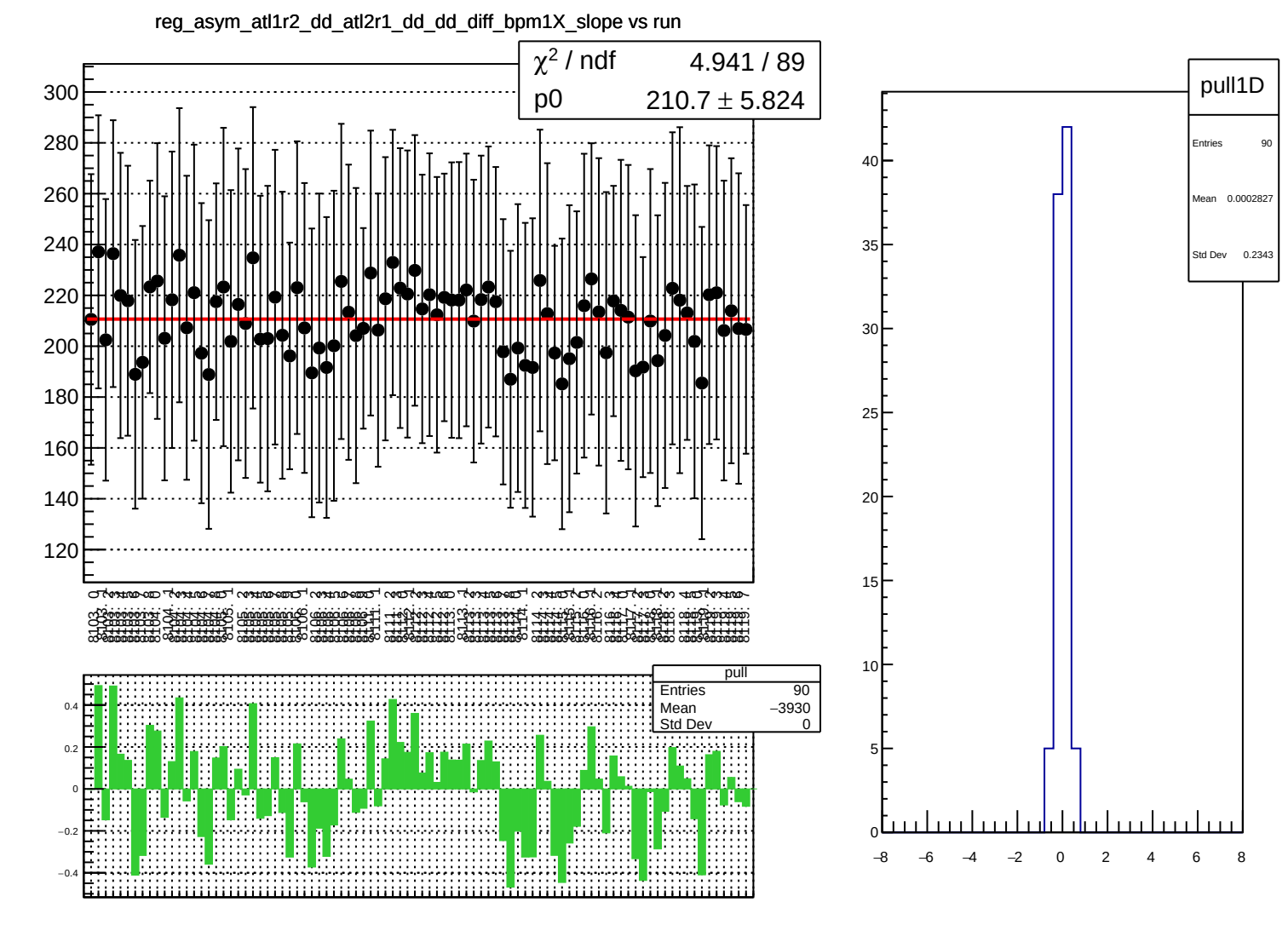

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.052 / 89
p0 −203.2 ± 5.539
pull
Entries 90
Mean −8296
Std Dev 0

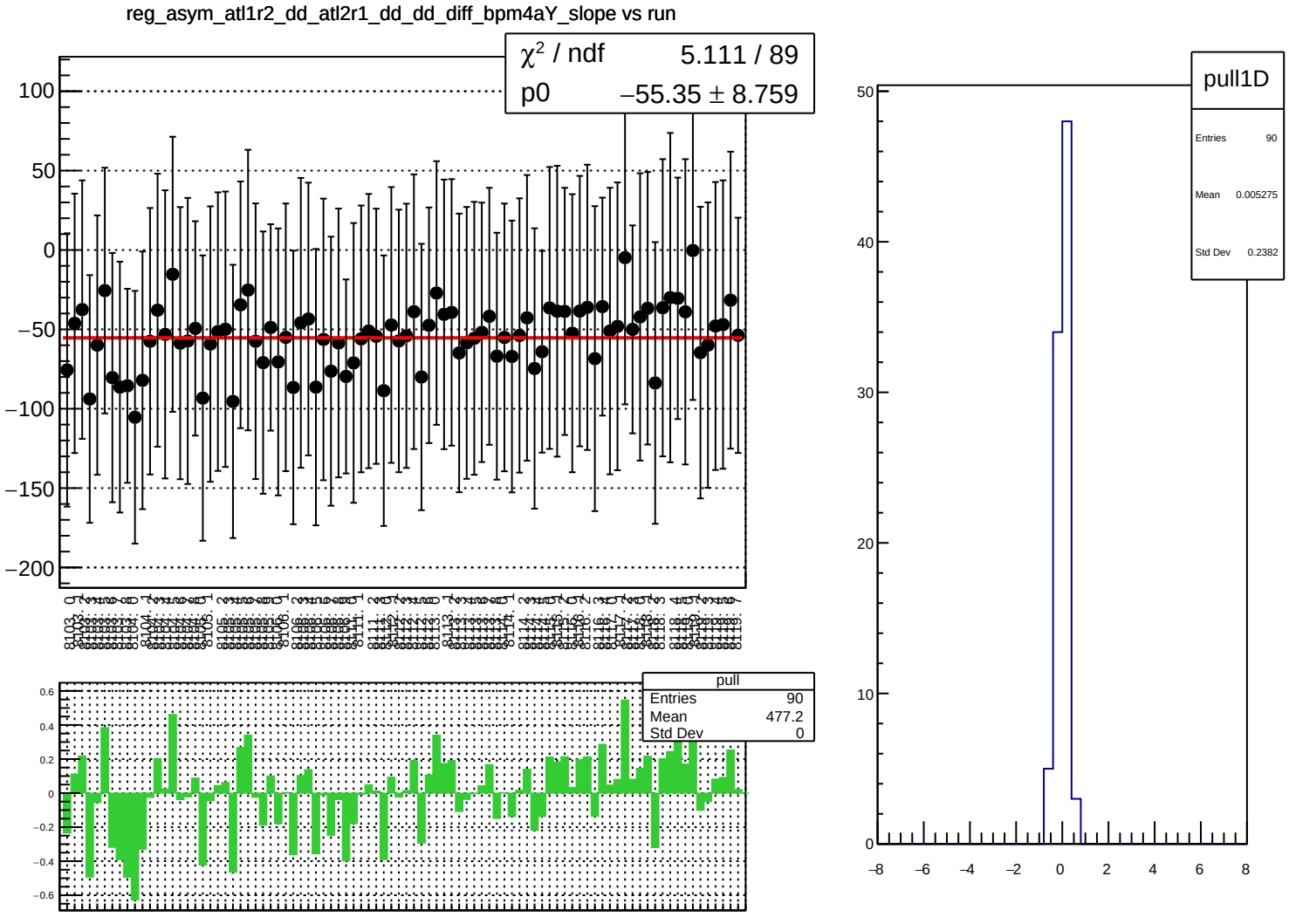

pull1D
Entries 90
Mean −0.0001776
Std Dev 0.2369

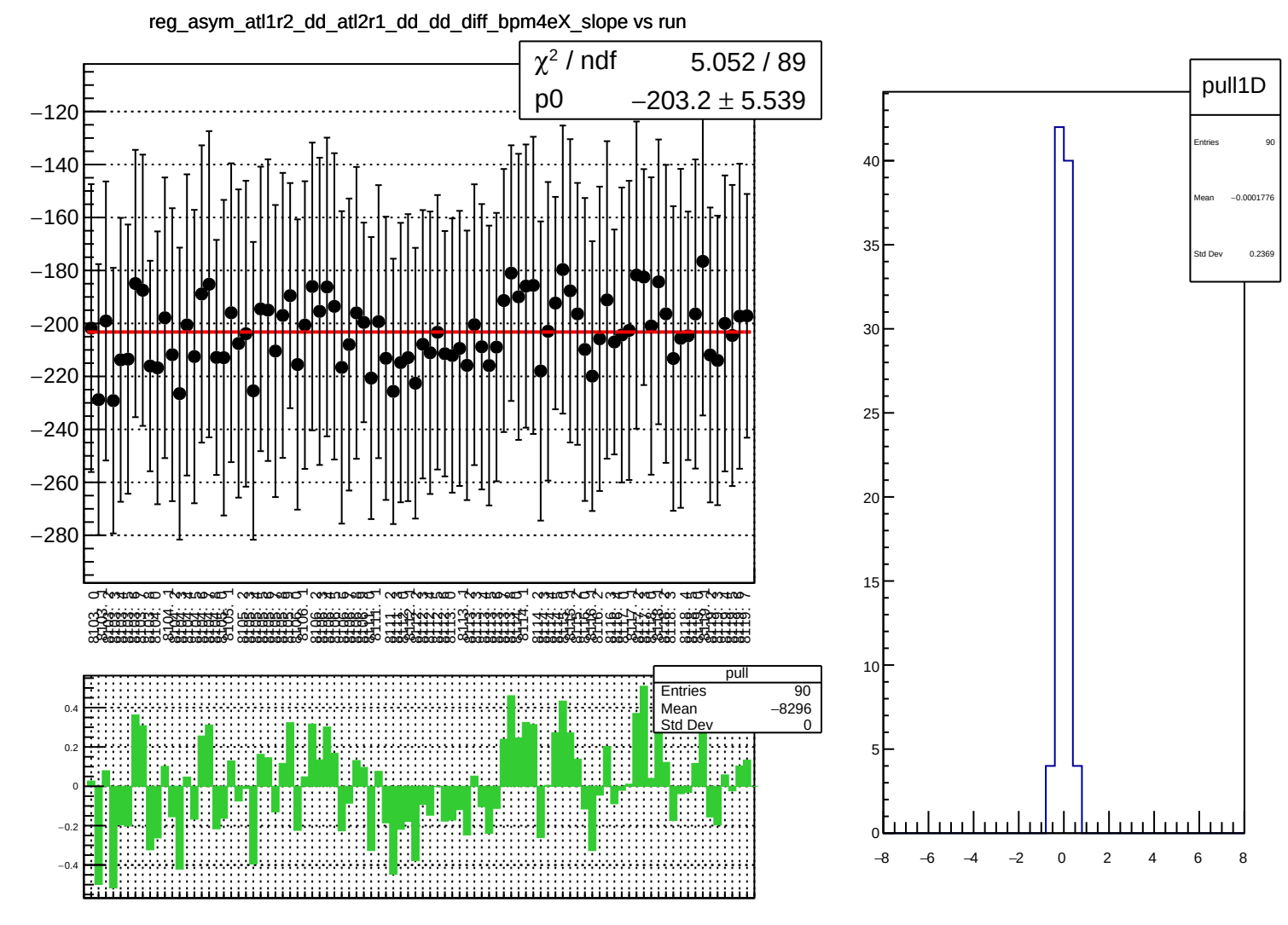

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.908 / 89
p0 −3.529 ± 9.366
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 468.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

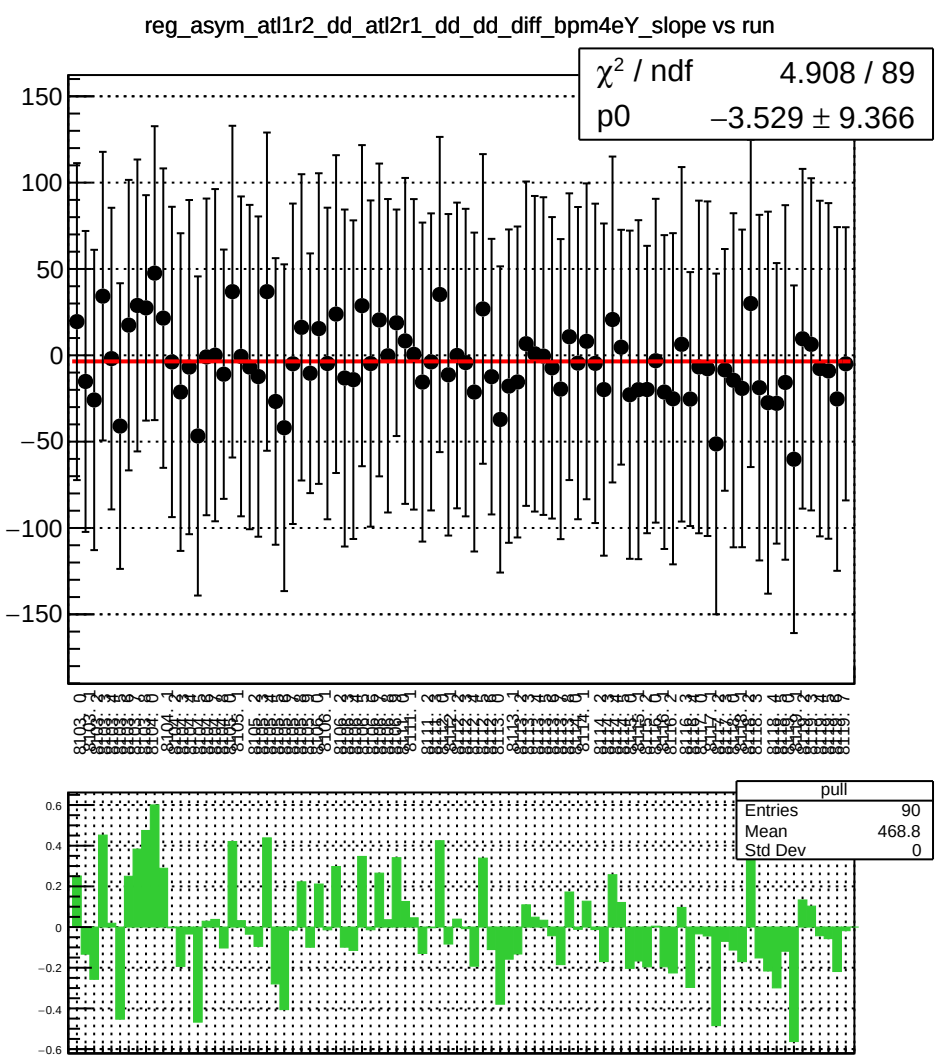

pull1D
Entries 90
Mean −0.004262
Std Dev 0.2335
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

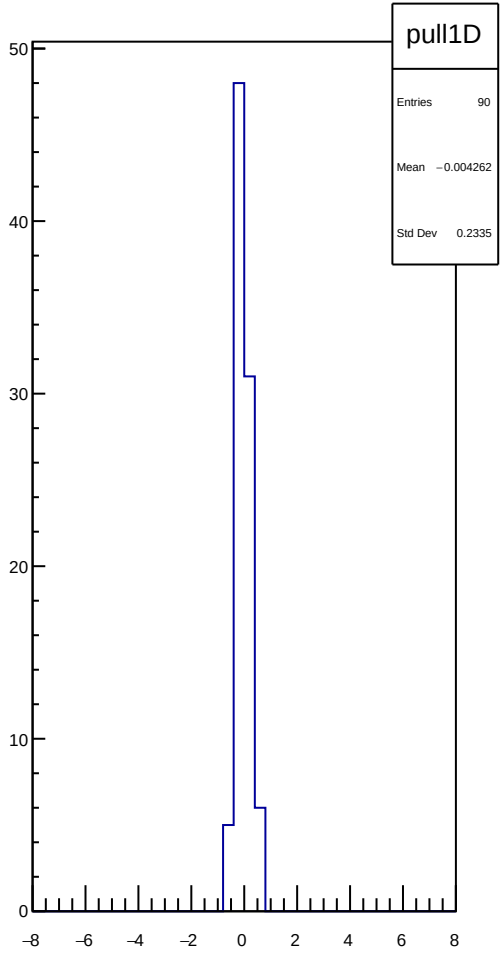

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 3.967 / 89
p0 127.4 ± 0.3516
pull
Entries 90
Mean 1409
Std Dev 0
pull1D
Entries 90
Mean 0.001067
Std Dev 0.2099

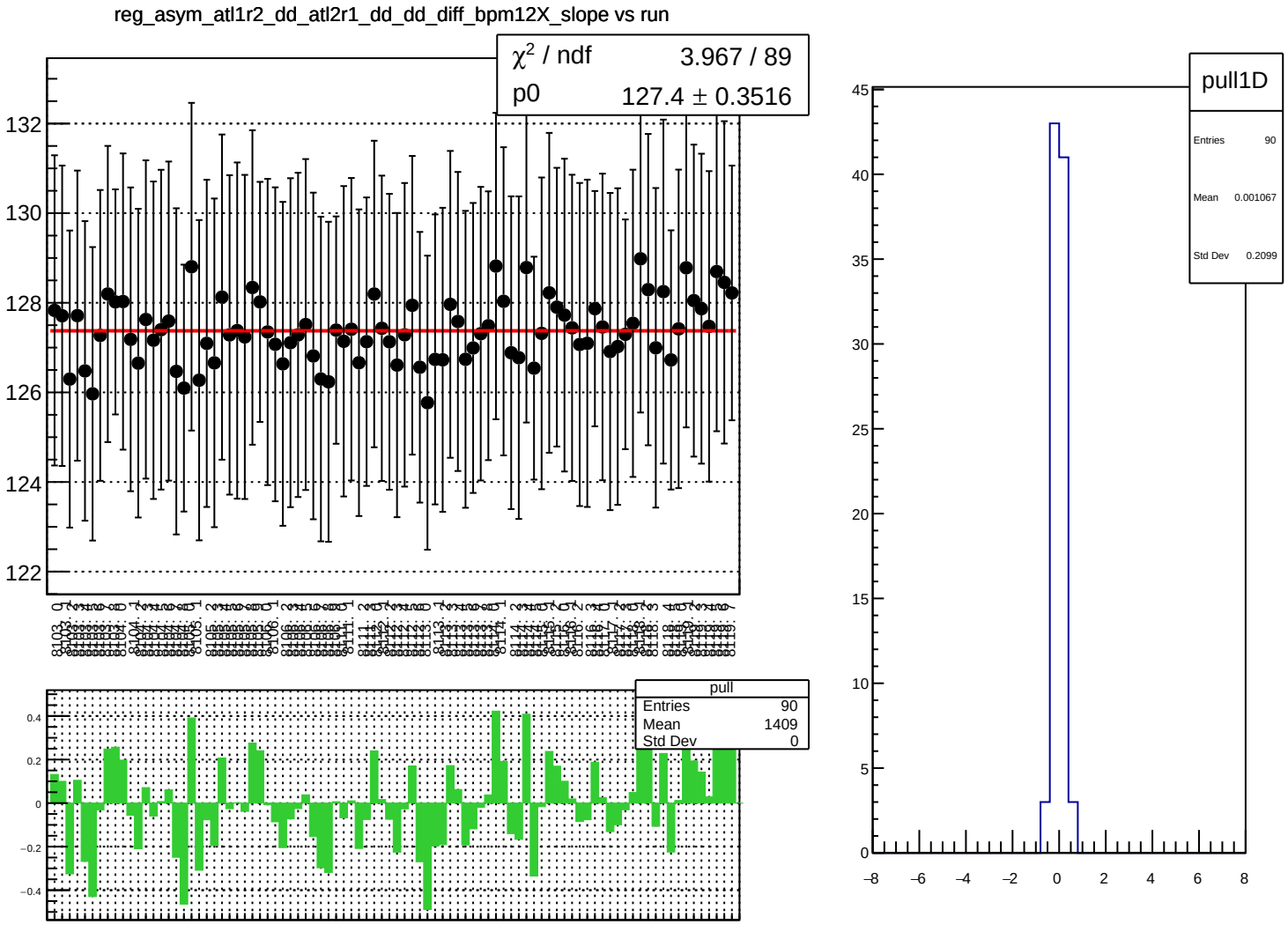

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 4.941 / 89
p0 210.7 ± 5.824
pull
Entries 90
Mean −3930
Std Dev 0
pull1D
Entries 90
Mean 0.0002827
Std Dev 0.2343

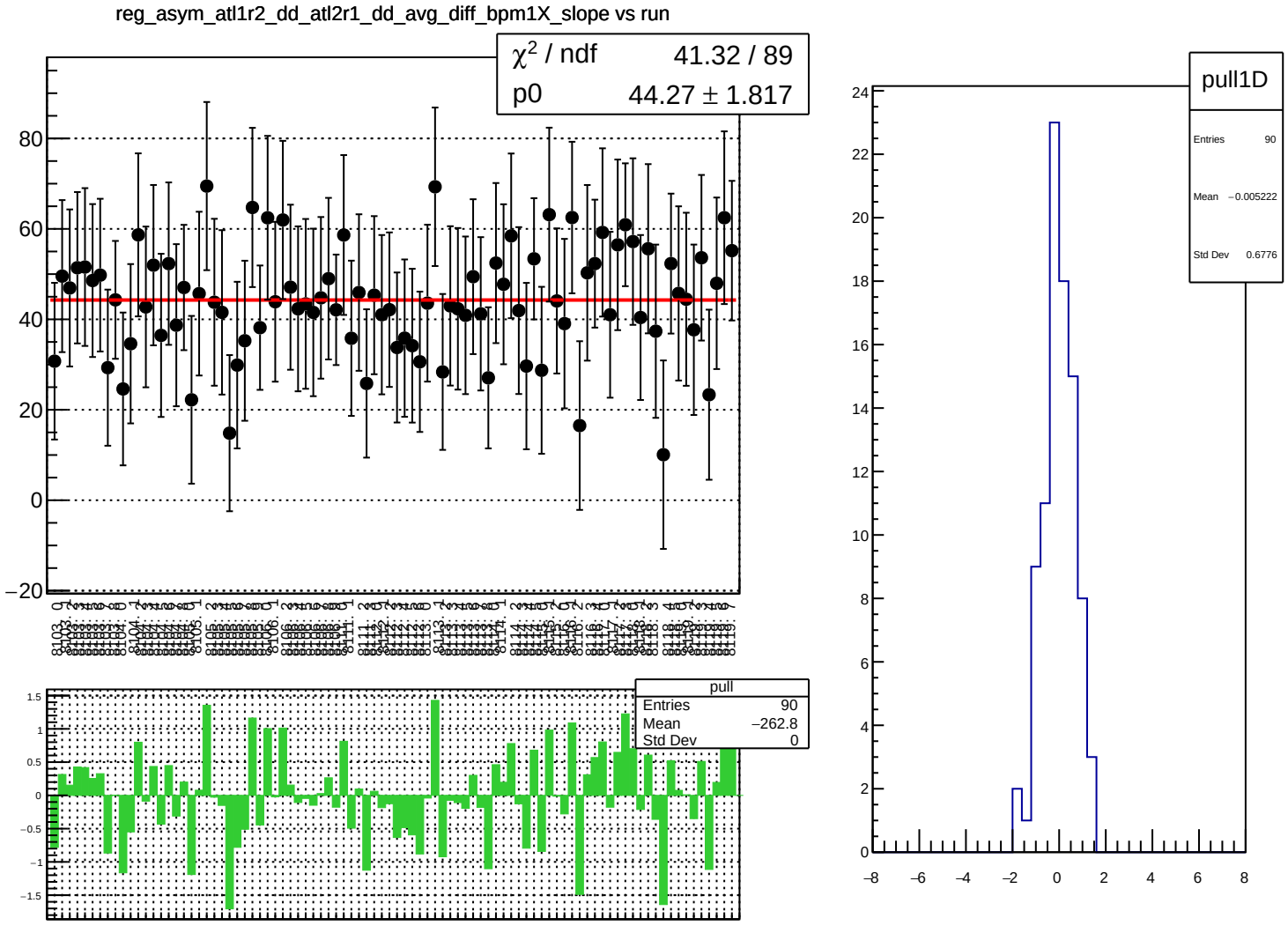

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.111 / 89
p0 −55.35 ± 8.759
pull
Entries 90
Mean 477.2
Std Dev 0
pull1D
Entries 90
Mean 0.005275
Std Dev 0.2382

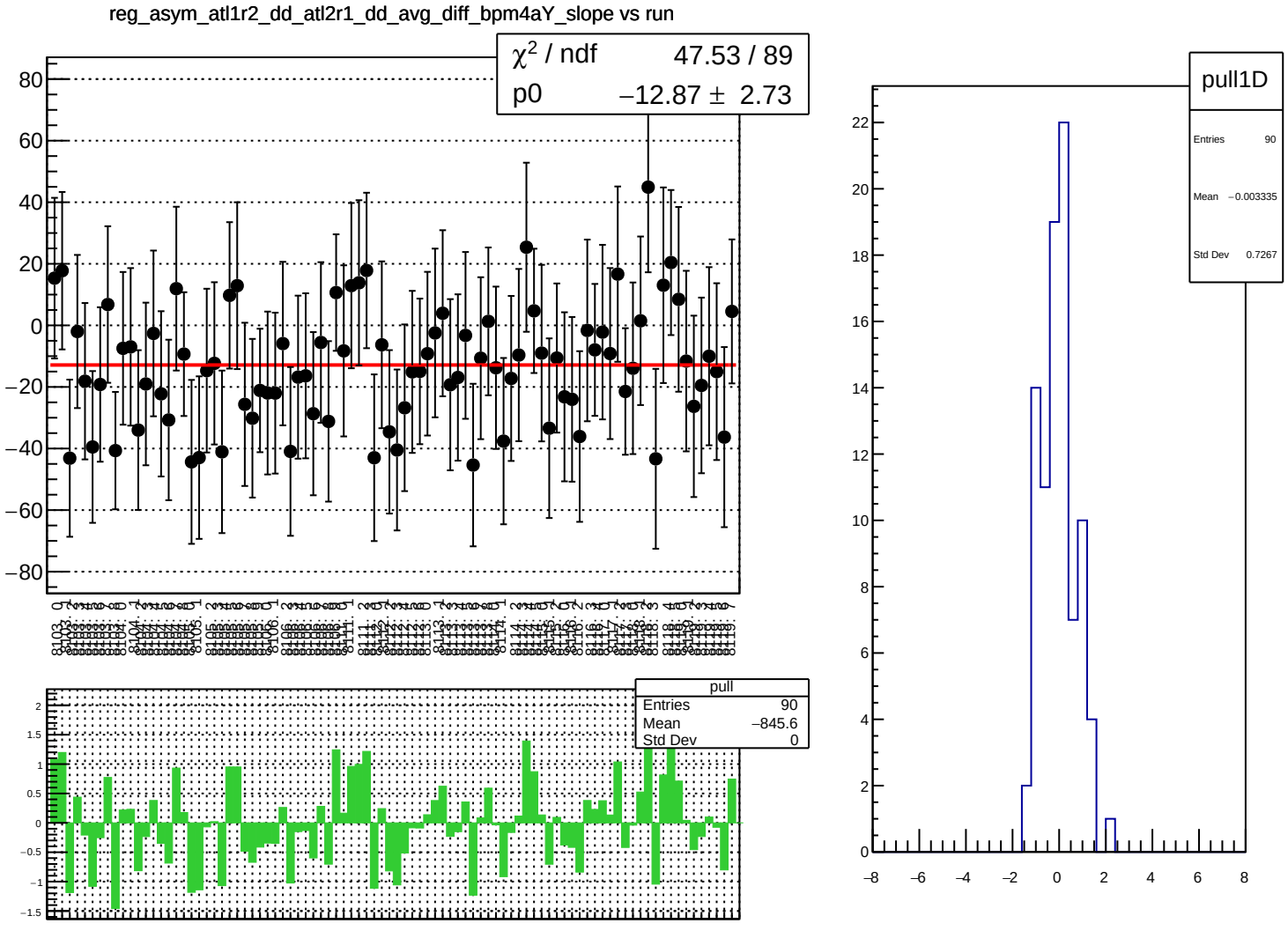

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.052 / 89
p0 −203.2 ± 5.539
−120
−140
−160
−180
−200
−220
−240
−260
−280
pull
Entries 90
Mean −8296
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 90
Mean −0.0001776
Std Dev 0.2369
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

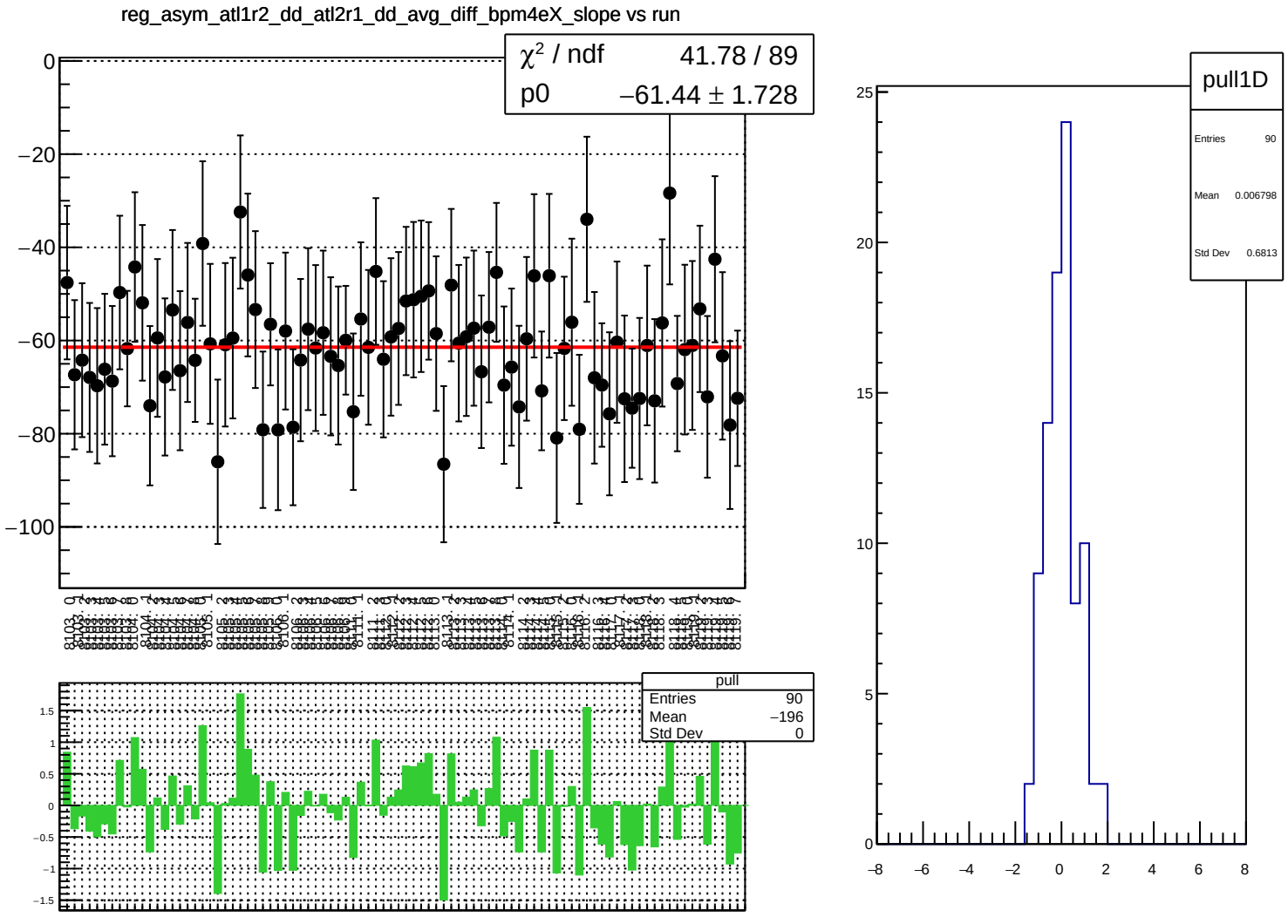

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.908 / 89
p0 −3.529 ± 9.366
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean 468.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

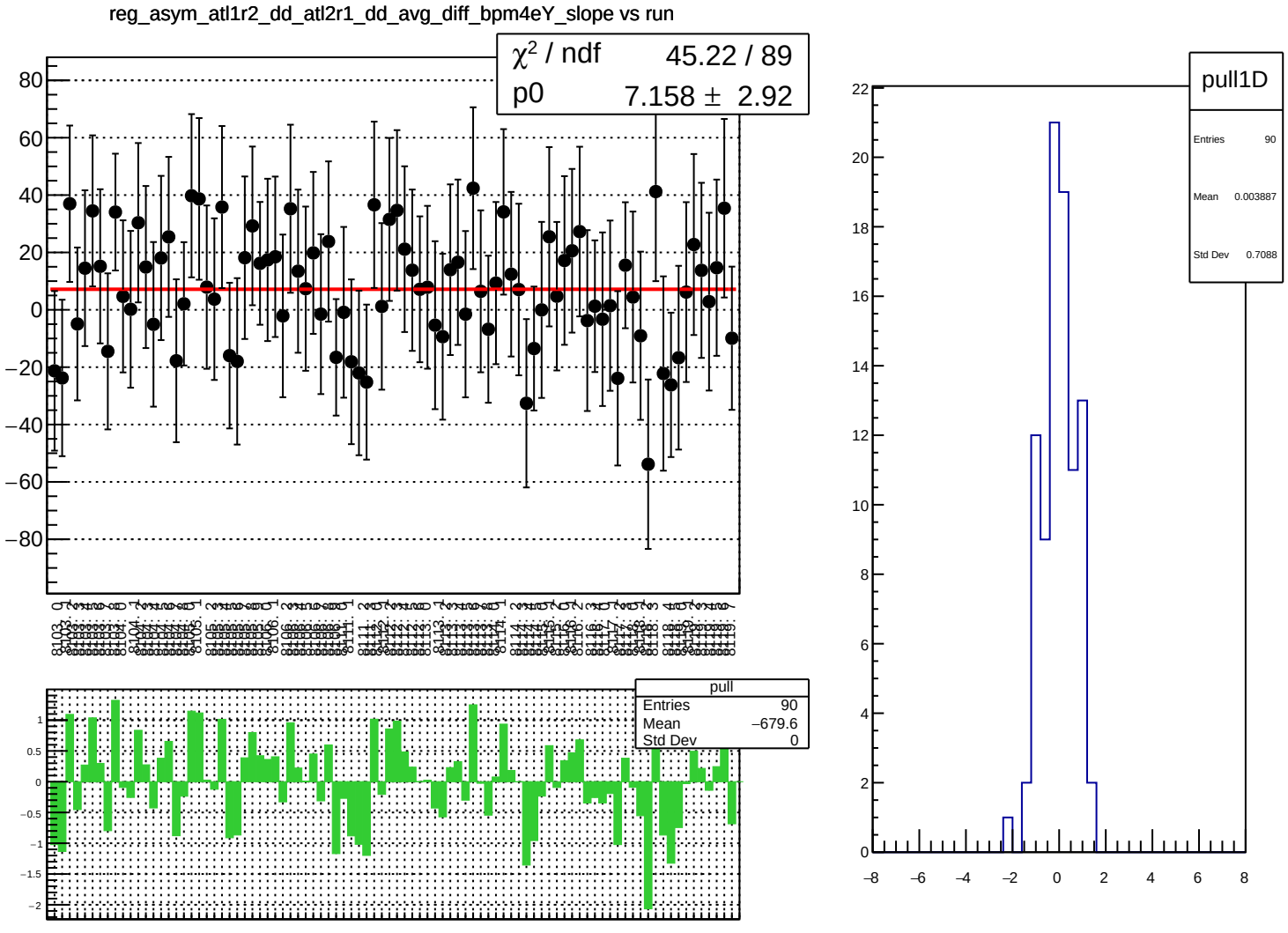

pull1D
Entries 90
Mean −0.004262
Std Dev 0.2335
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

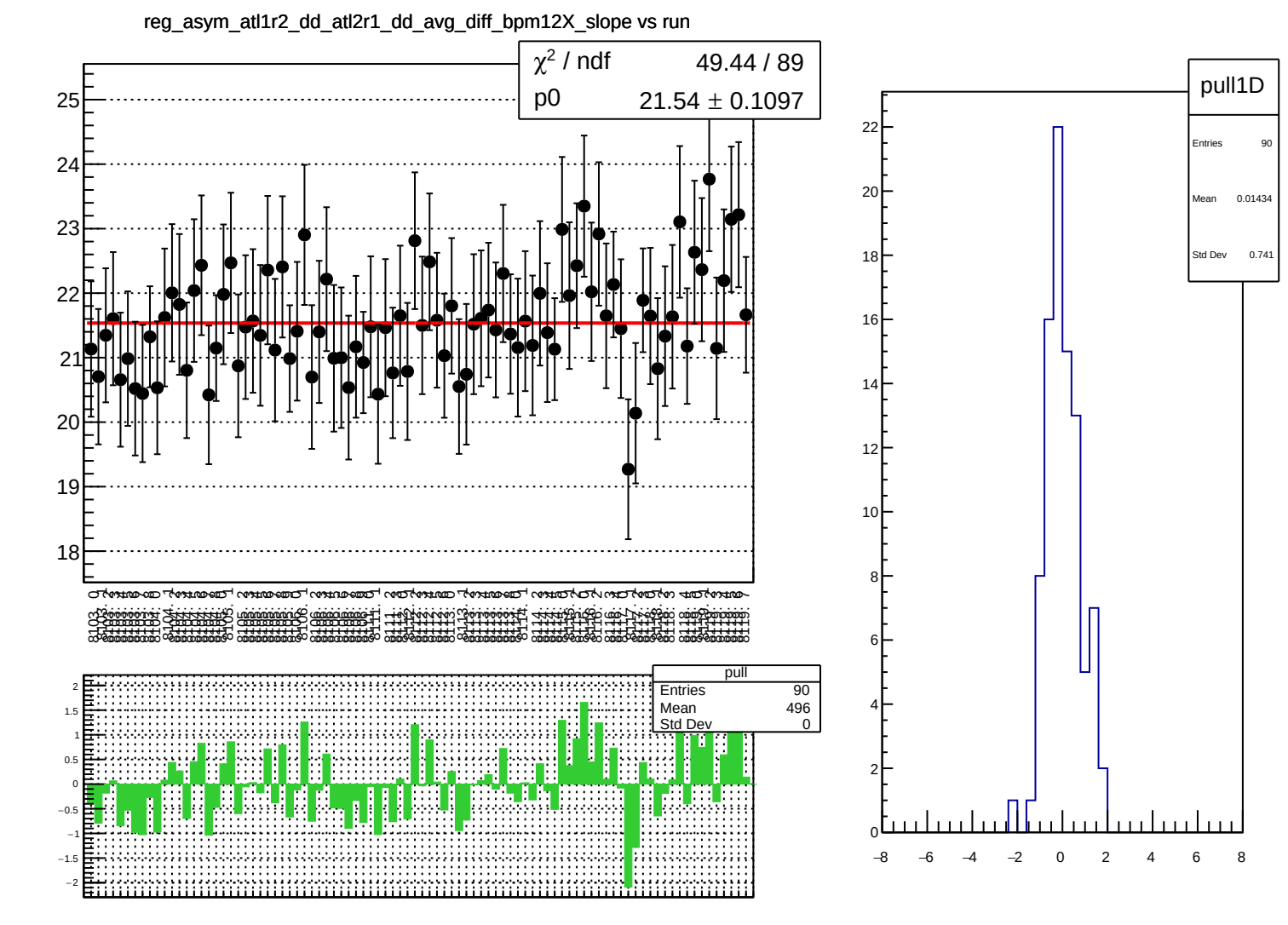

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 3.967 / 89
p0 127.4 ± 0.3516
pull
Entries 90
Mean 1409
Std Dev 0
pull1D
Entries 90
Mean 0.001067
Std Dev 0.2099

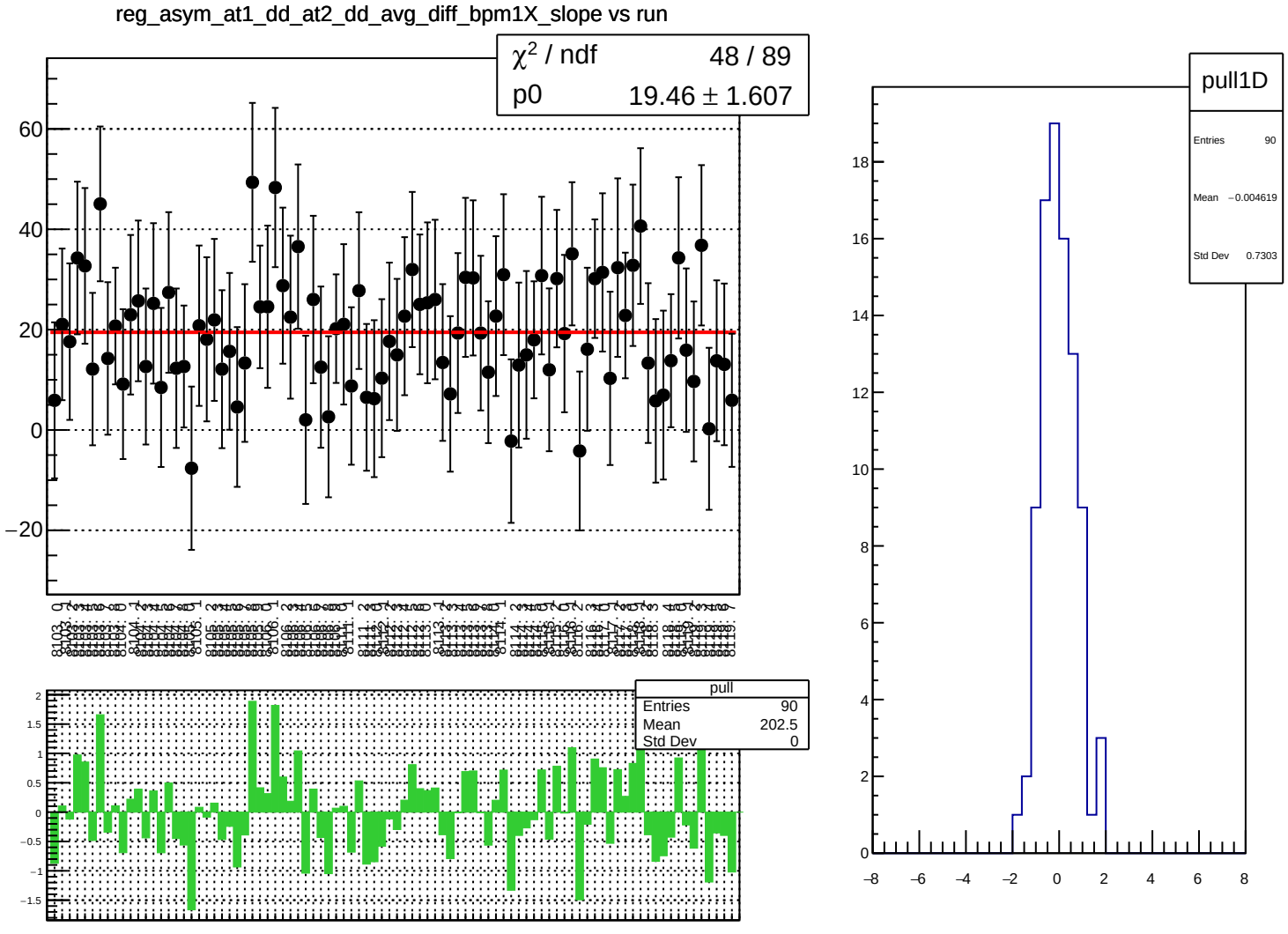

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 41.32 / 89
p0 44.27 ± 1.817
pull
Entries 90
Mean −262.8
Std Dev 0
pull1D
Entries 90
Mean −0.005222
Std Dev 0.6776

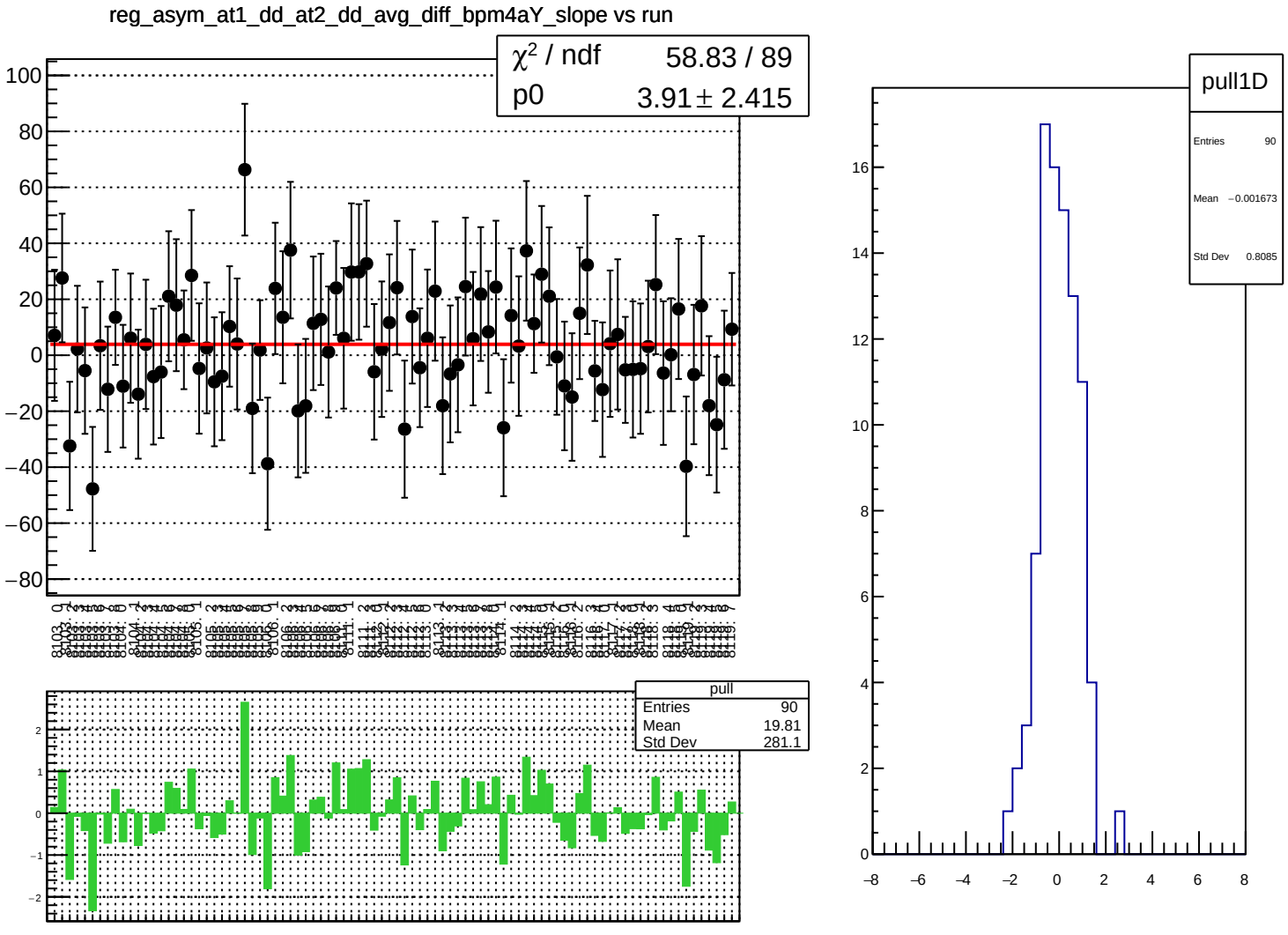

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.53 / 89
p0 −12.87 ± 2.73
pull
Entries 90
Mean −845.6
Std Dev 0
pull1D
Entries 90
Mean −0.003335
Std Dev 0.7267

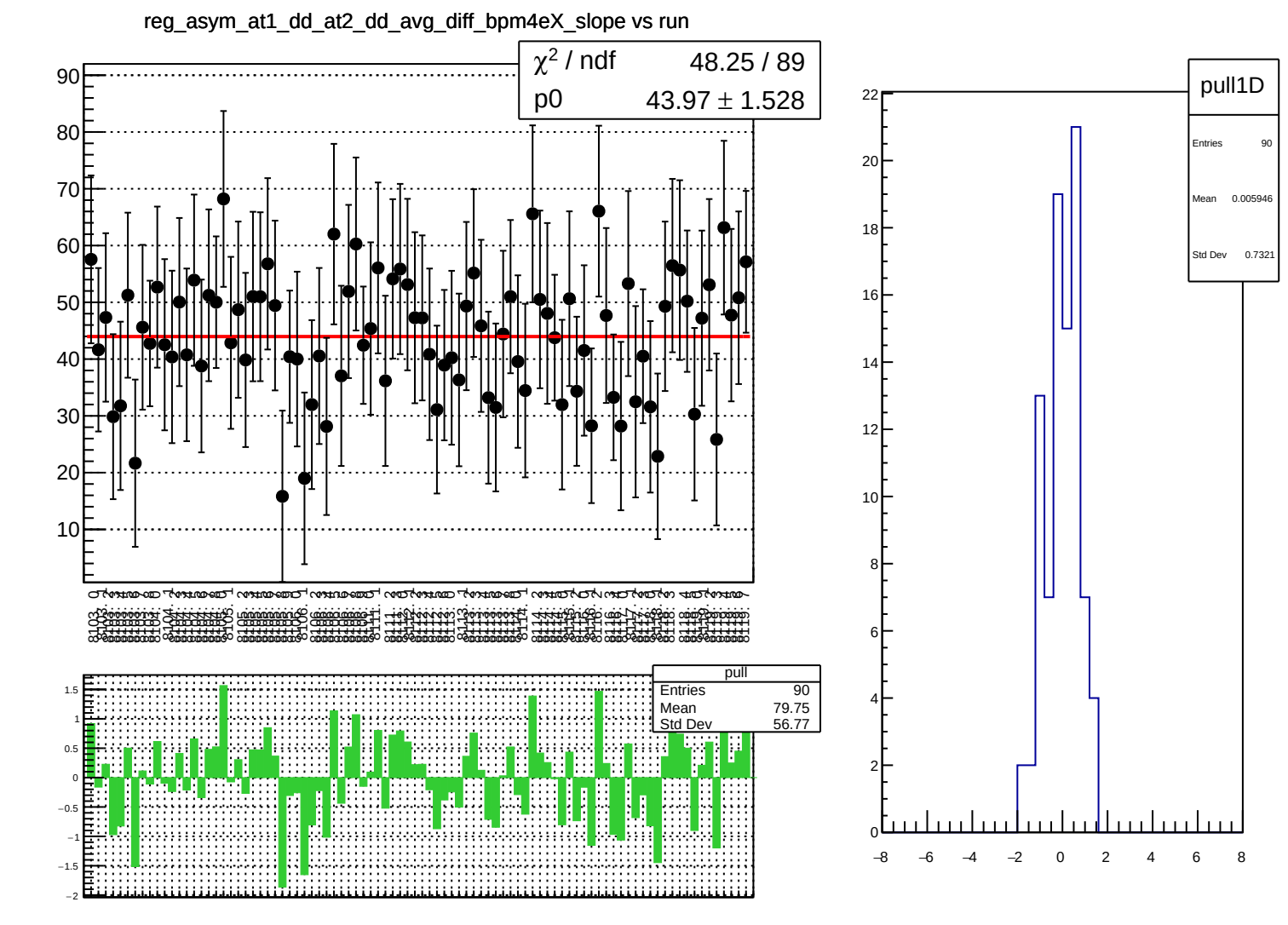

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.78 / 89
p0 −61.44 ± 1.728
pull
Entries 90
Mean −196
Std Dev 0
pull1D
Entries 90
Mean 0.006798
Std Dev 0.6813

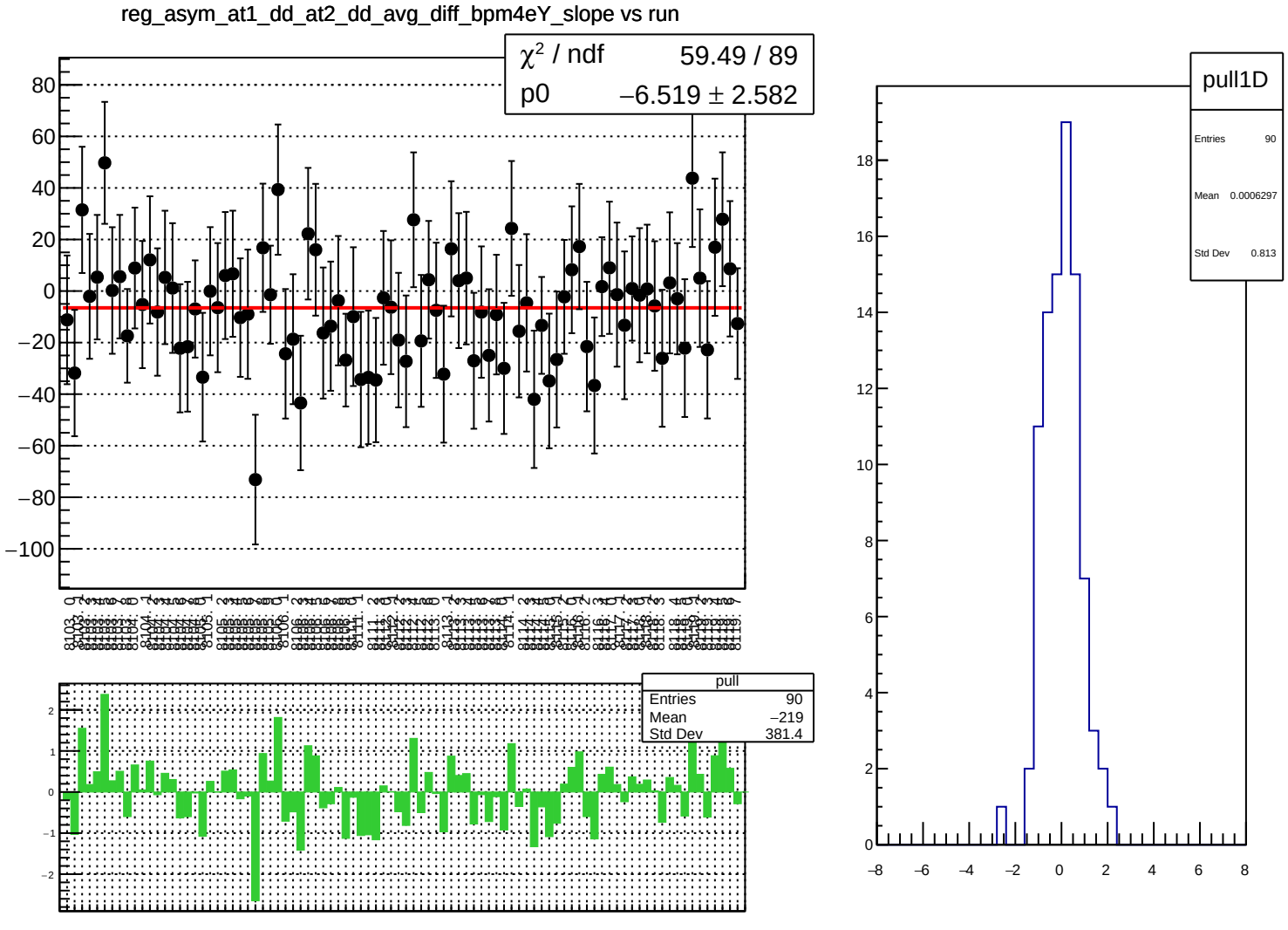

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.22 / 89
p0 7.158 ± 2.92
pull
Entries 90
Mean −679.6
Std Dev 0
pull1D
Entries 90
Mean 0.003887
Std Dev 0.7088

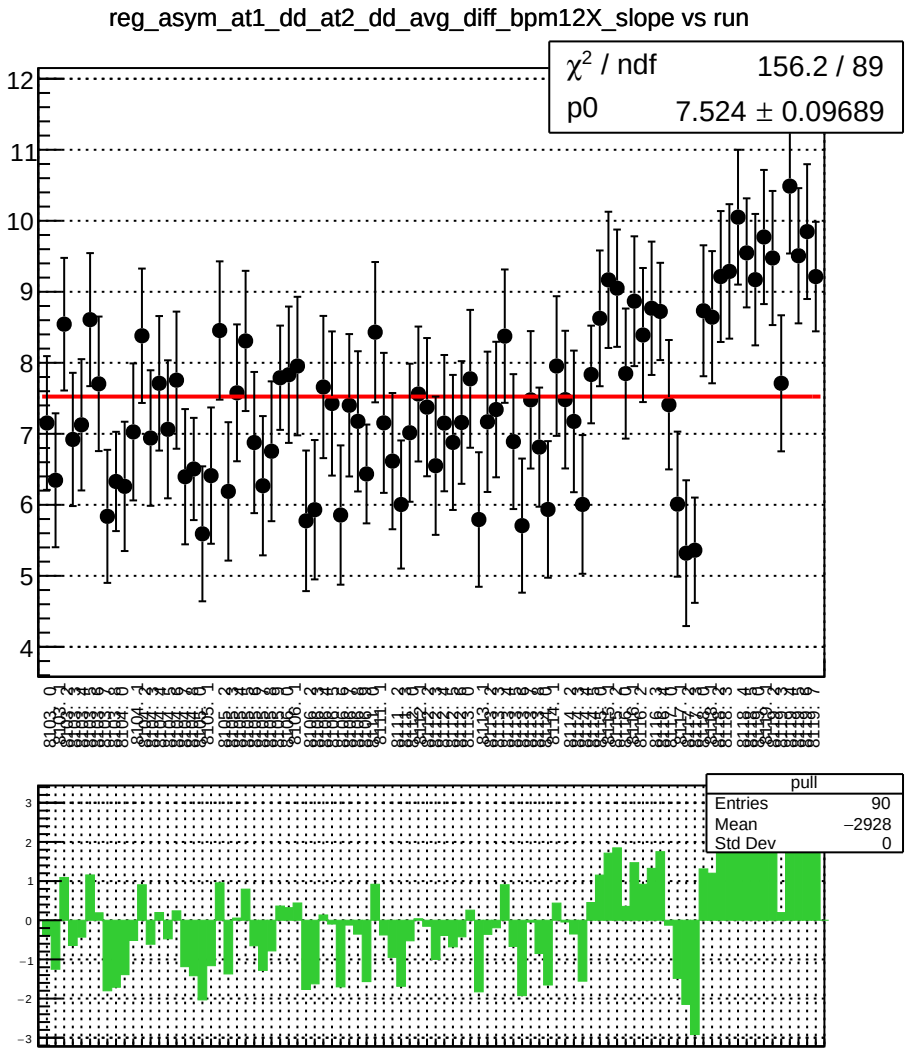

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 49.44 / 89
p0 21.54 ± 0.1097
pull
Entries 90
Mean 496
Std Dev 0
pull1D
Entries 90
Mean 0.01434
Std Dev 0.741

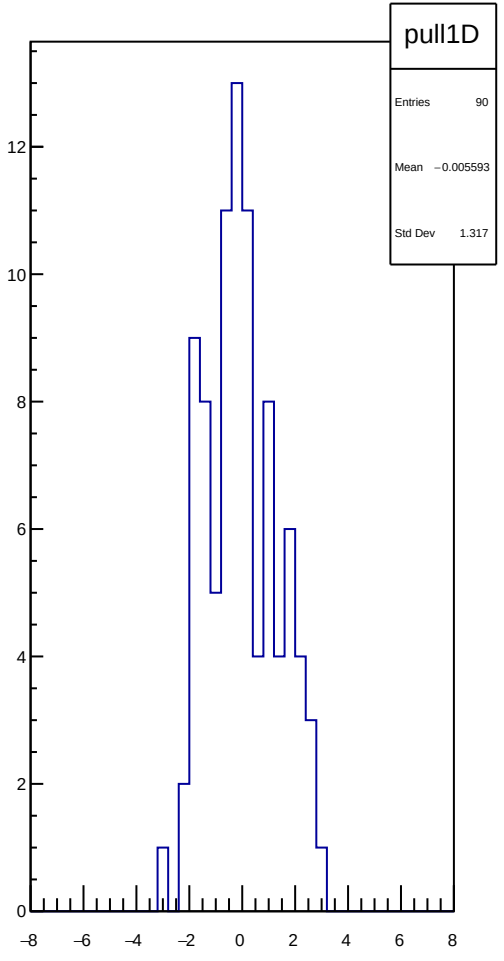

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 48 / 89
p0 19.46 ± 1.607
pull
Entries 90
Mean 202.5
Std Dev 0
pull1D
Entries 90
Mean −0.004619
Std Dev 0.7303

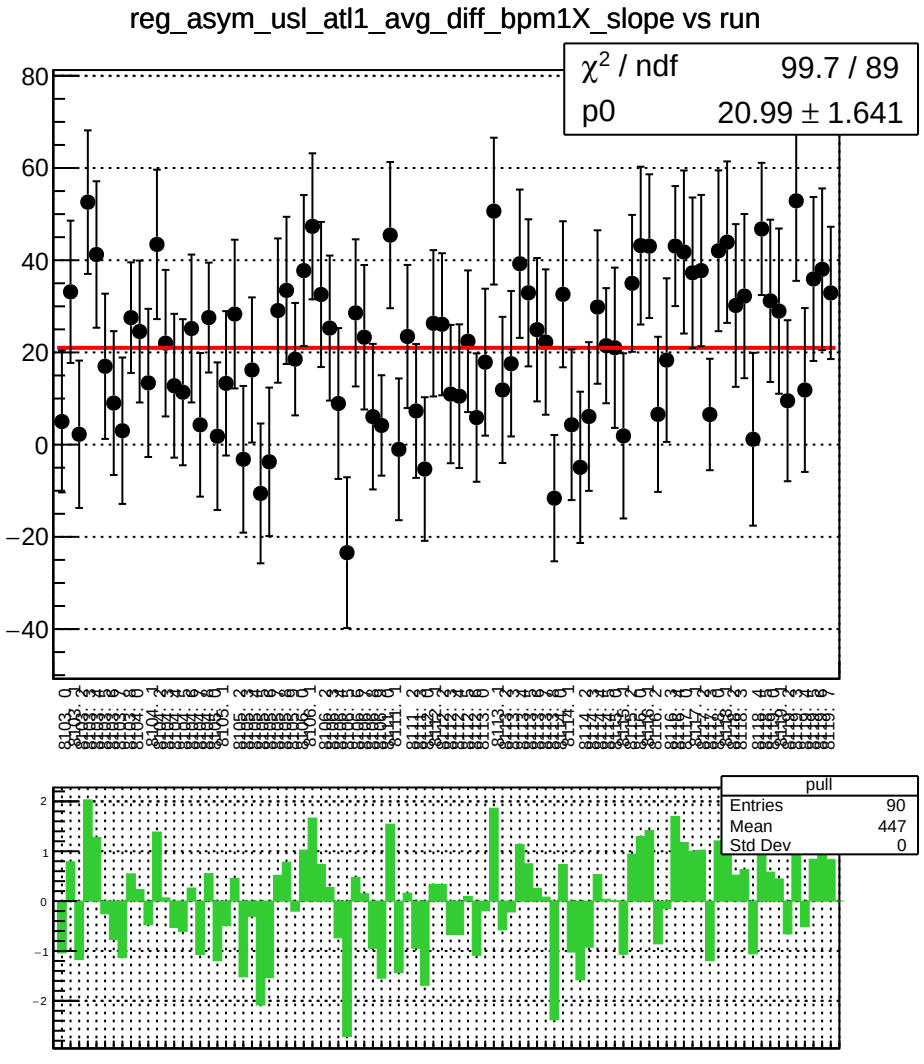

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.83 / 89
p0 3.91 ± 2.415
pull
Entries 90
Mean 19.81
Std Dev 281.1
pull1D
Entries 90
Mean −0.001673
Std Dev 0.8085

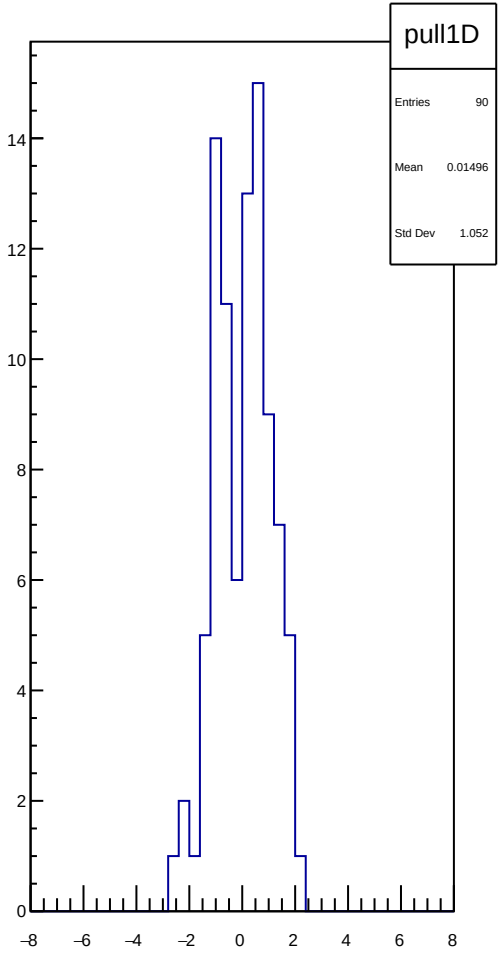

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.25 / 89
p0 43.97 ± 1.528
pull
Entries 90
Mean 79.75
Std Dev 56.77
pull1D
Entries 90
Mean 0.005946
Std Dev 0.7321

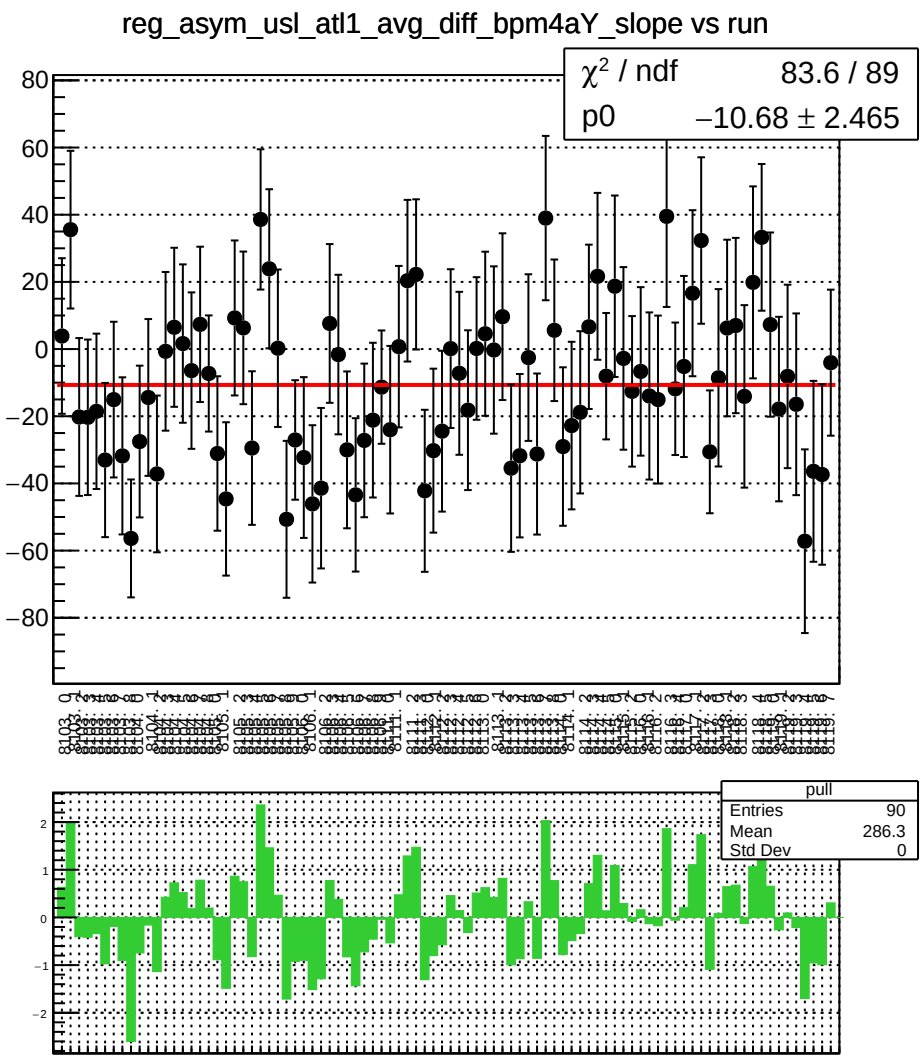

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.49 / 89
p0 −6.519 ± 2.582
pull
Entries 90
Mean −219
Std Dev 381.4
pull1D
Entries 90
Mean 0.0006297
Std Dev 0.813

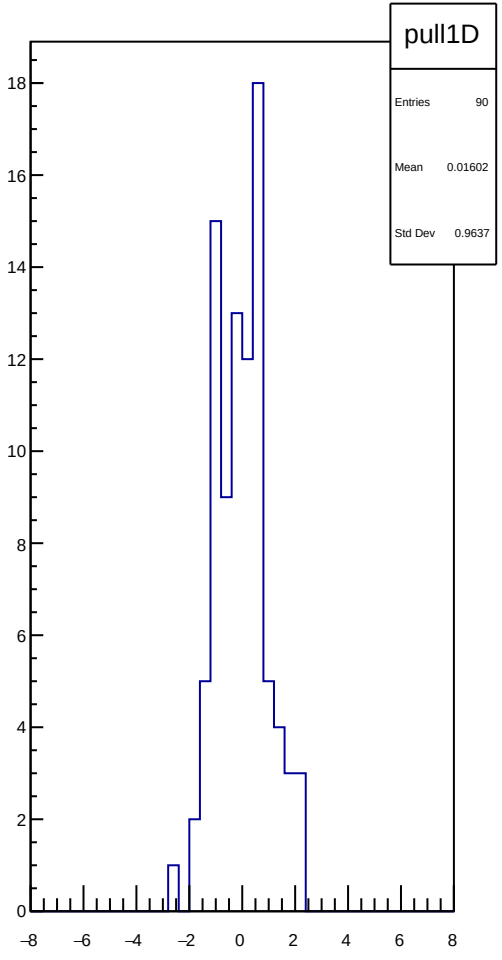

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 156.2 / 89
p0 7.524 ± 0.09689
pull
Entries 90
Mean −2928
Std Dev 0

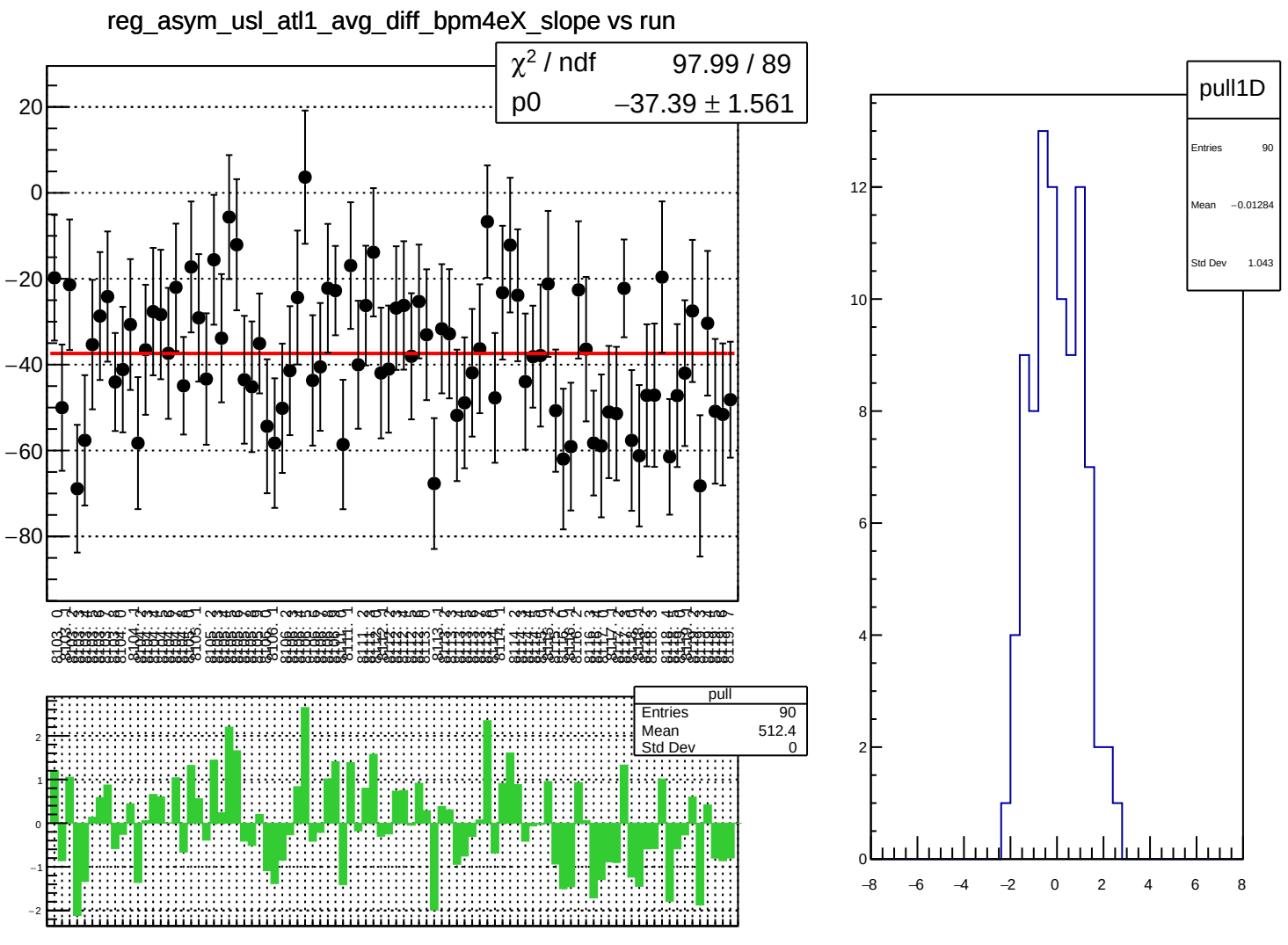

pull1D
Entries 90
Mean −0.005593
Std Dev 1.317

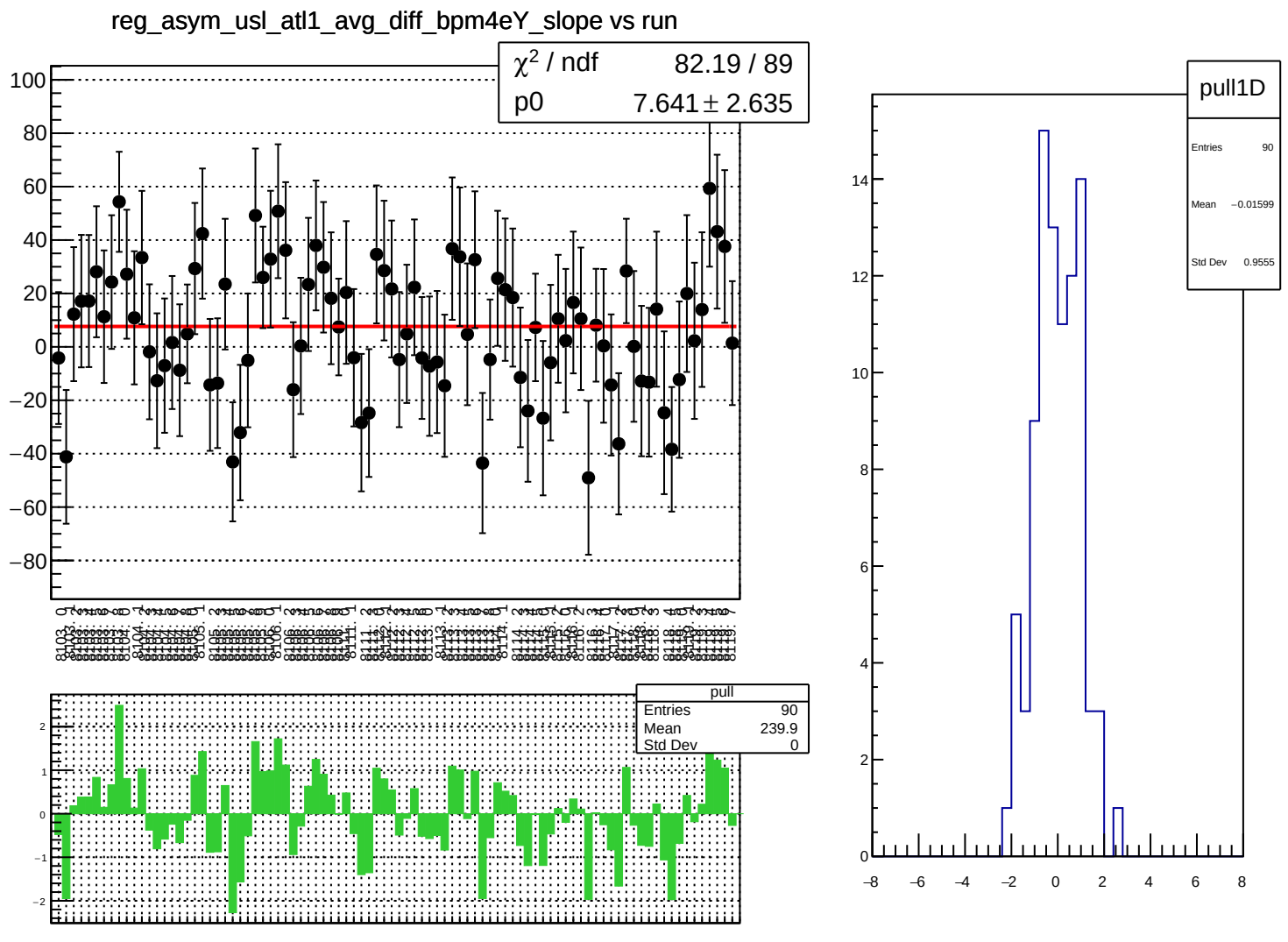

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 99.7 / 89
p0 20.99 ± 1.641
pull
Entries 90
Mean 447
Std Dev 0

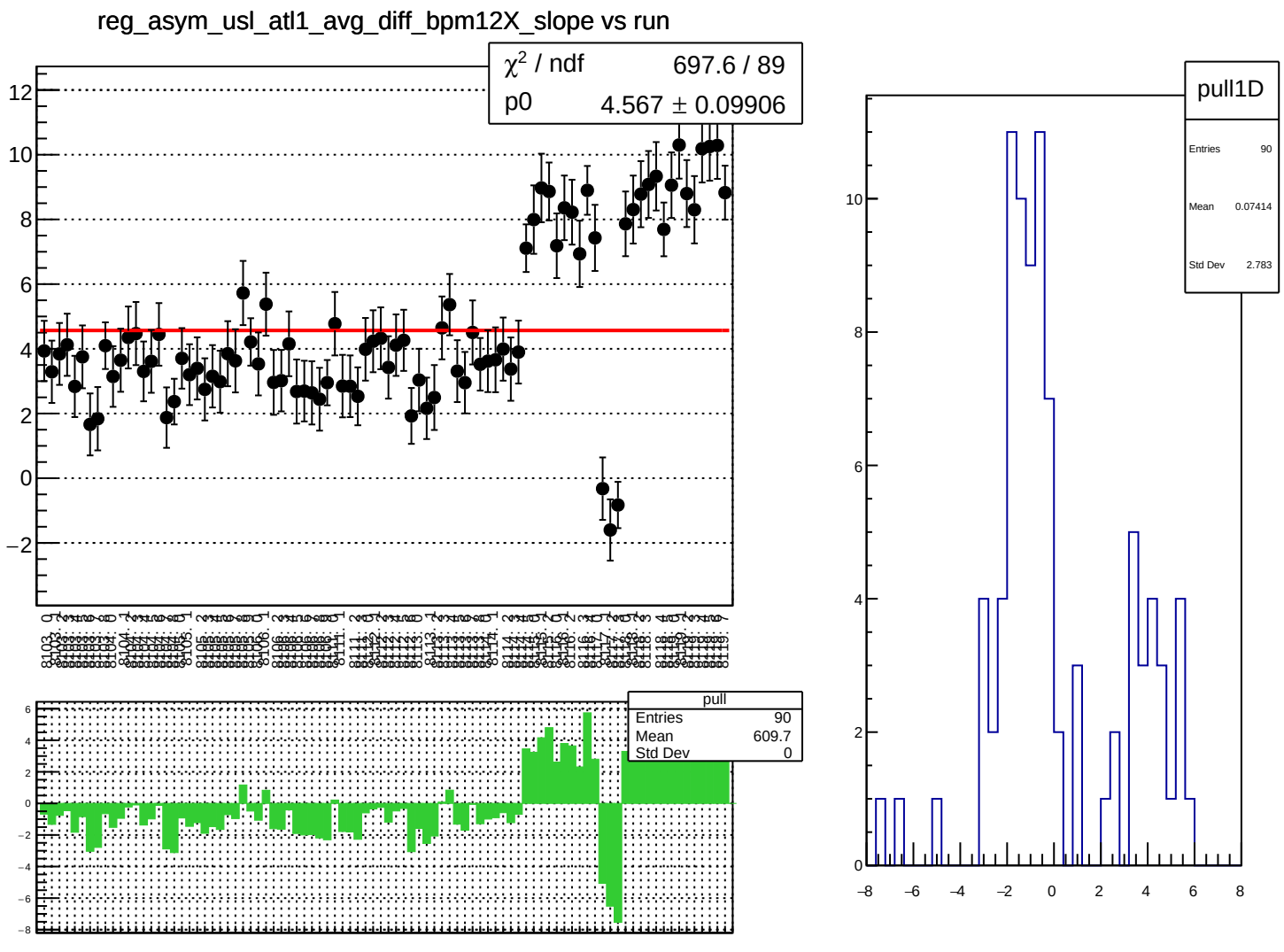

pull1D
Entries 90
Mean 0.01496
Std Dev 1.052

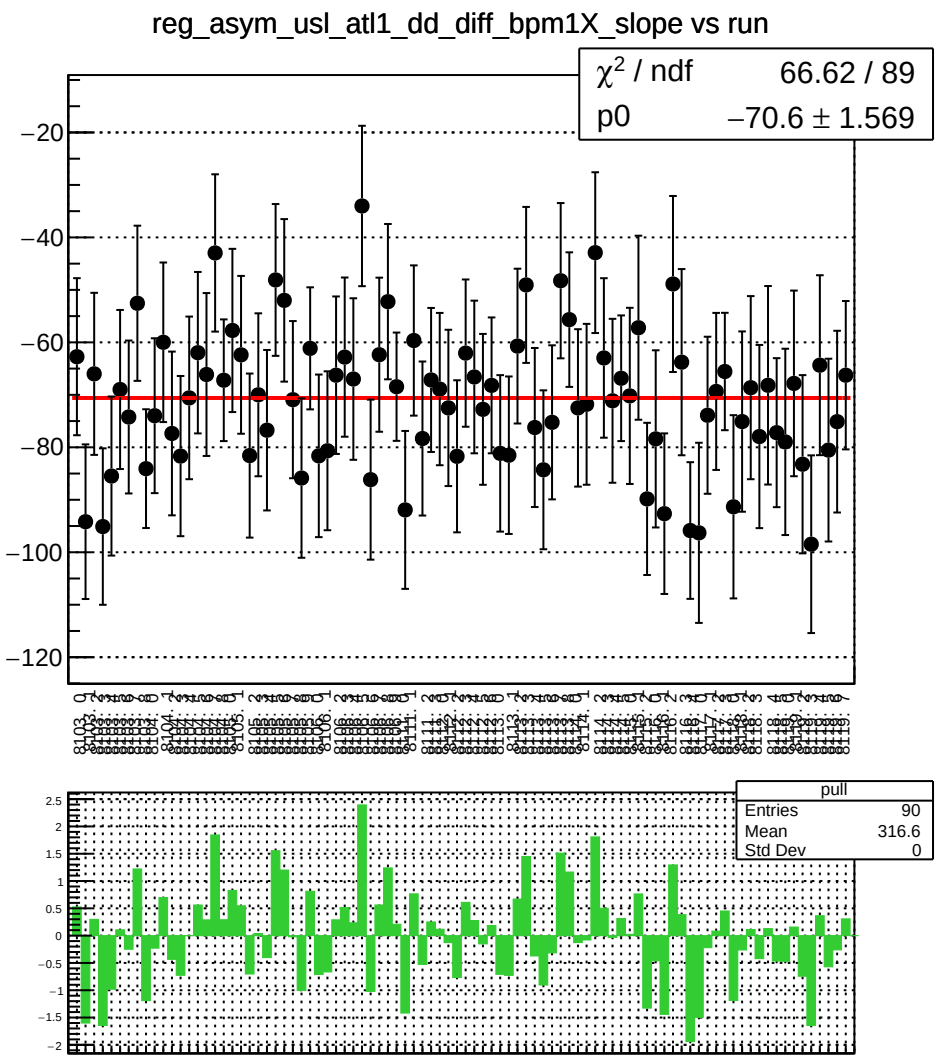

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.6 / 89
p0 −10.68 ± 2.465
pull
Entries 90
Mean 286.3
Std Dev 0

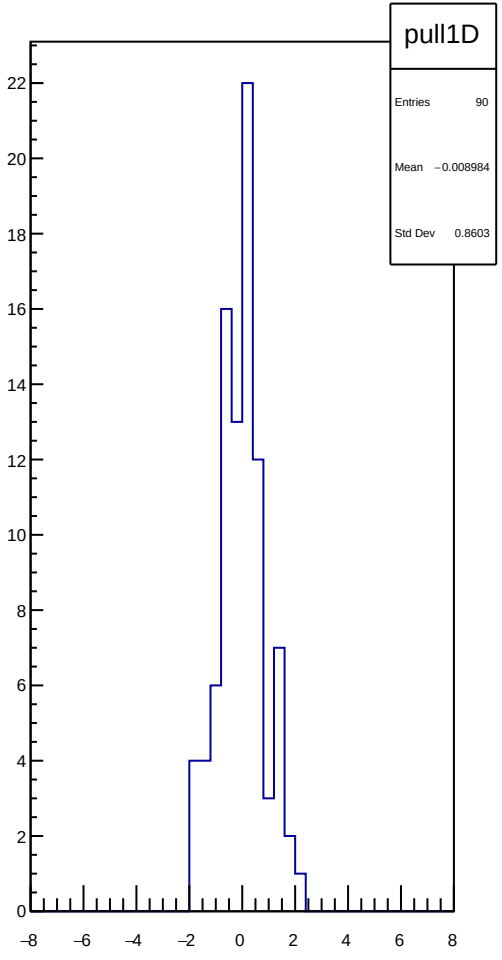

pull1D
Entries 90
Mean 0.01602
Std Dev 0.9637

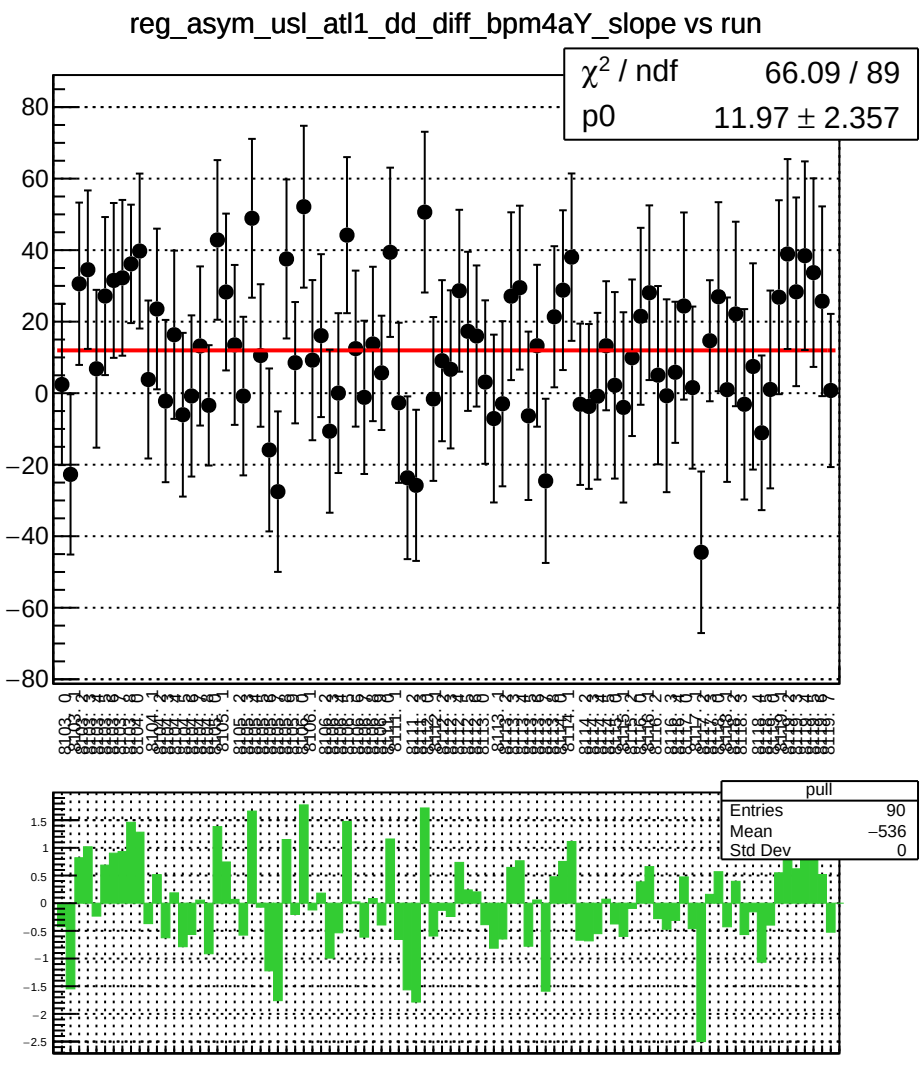

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.99 / 89
p0 −37.39 ± 1.561
pull
Entries 90
Mean 512.4
Std Dev 0
pull1D
Entries 90
Mean −0.01284
Std Dev 1.043

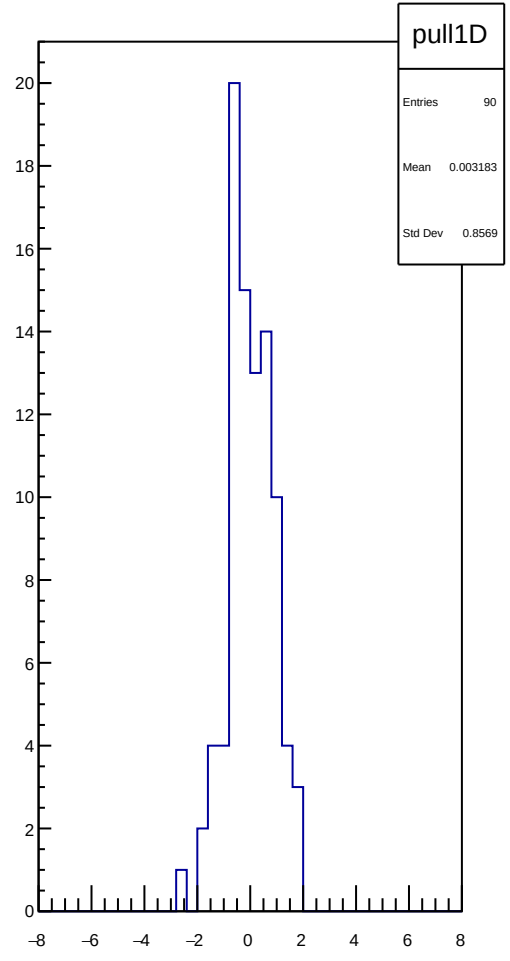

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.19 / 89
p0 7.641 ± 2.635
pull
Entries 90
Mean 239.9
Std Dev 0
pull1D
Entries 90
Mean −0.01599
Std Dev 0.9555

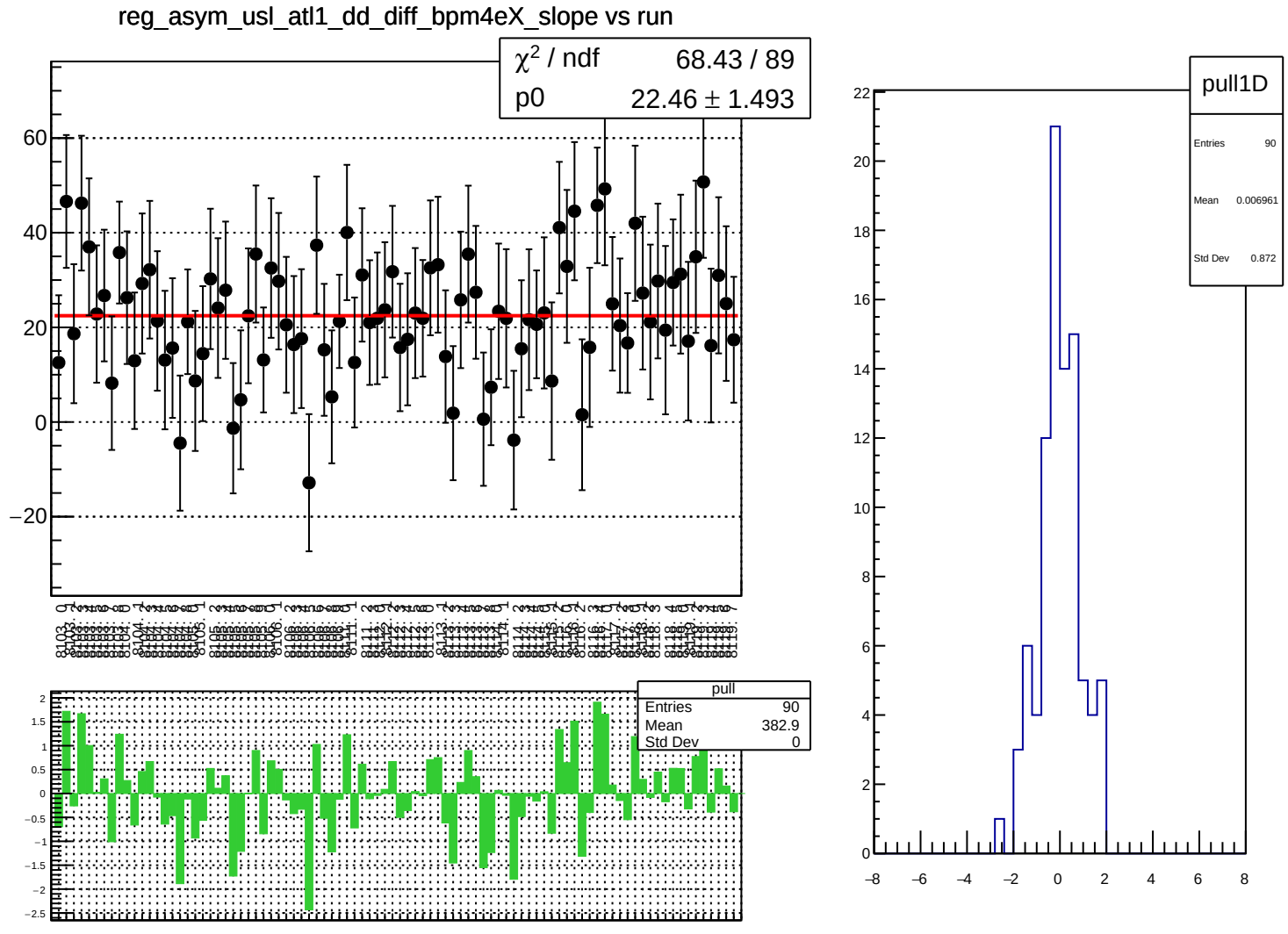

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 697.6 / 89
p0 4.567 ± 0.09906
pull
Entries 90
Mean 609.7
Std Dev 0
pull1D
Entries 90
Mean 0.07414
Std Dev 2.783

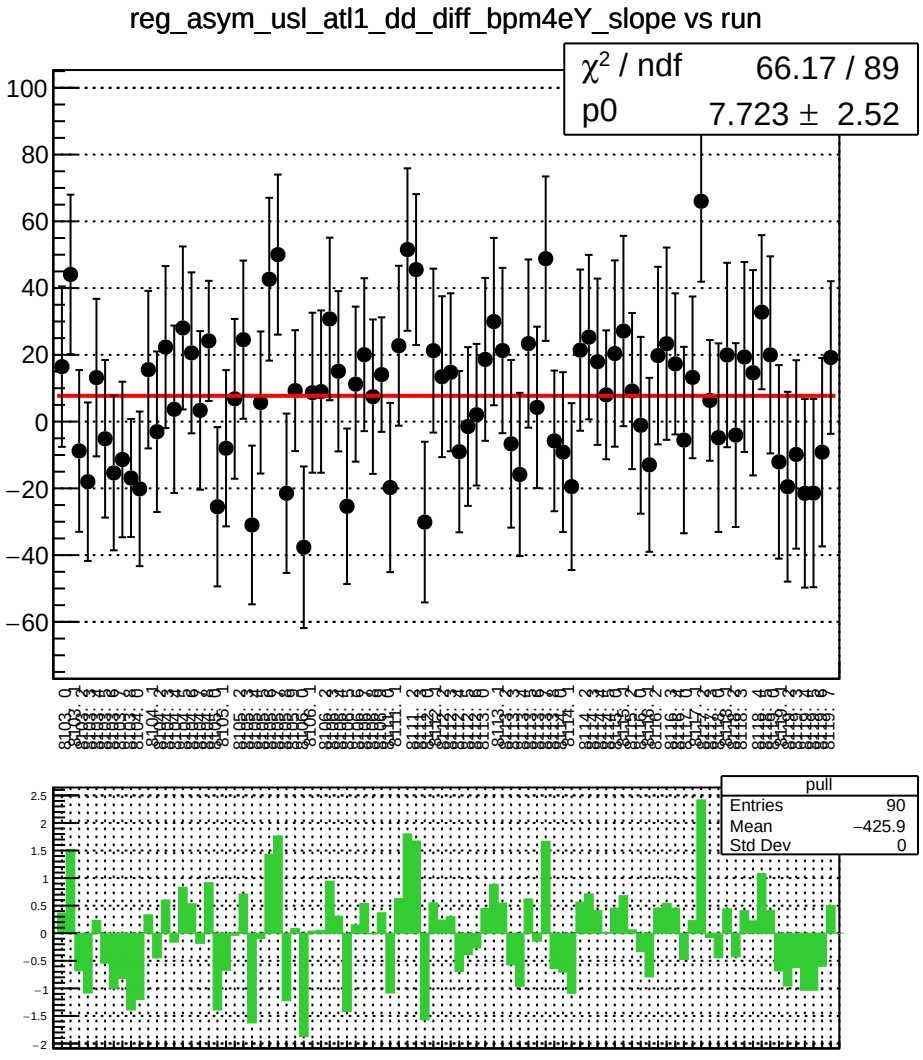

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 66.62 / 89
p0 −70.6 ± 1.569
pull
Entries 90
Mean 316.6
Std Dev 0

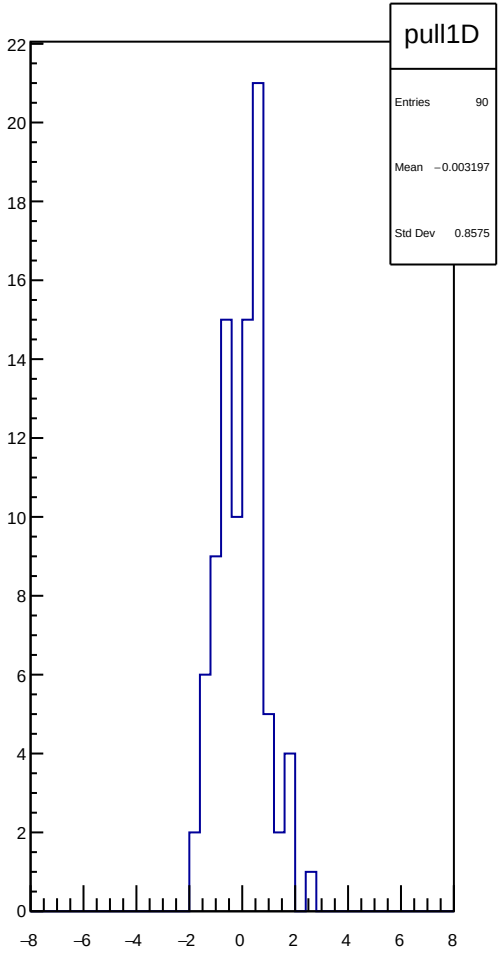

pull1D
Entries 90
Mean −0.008984
Std Dev 0.8603

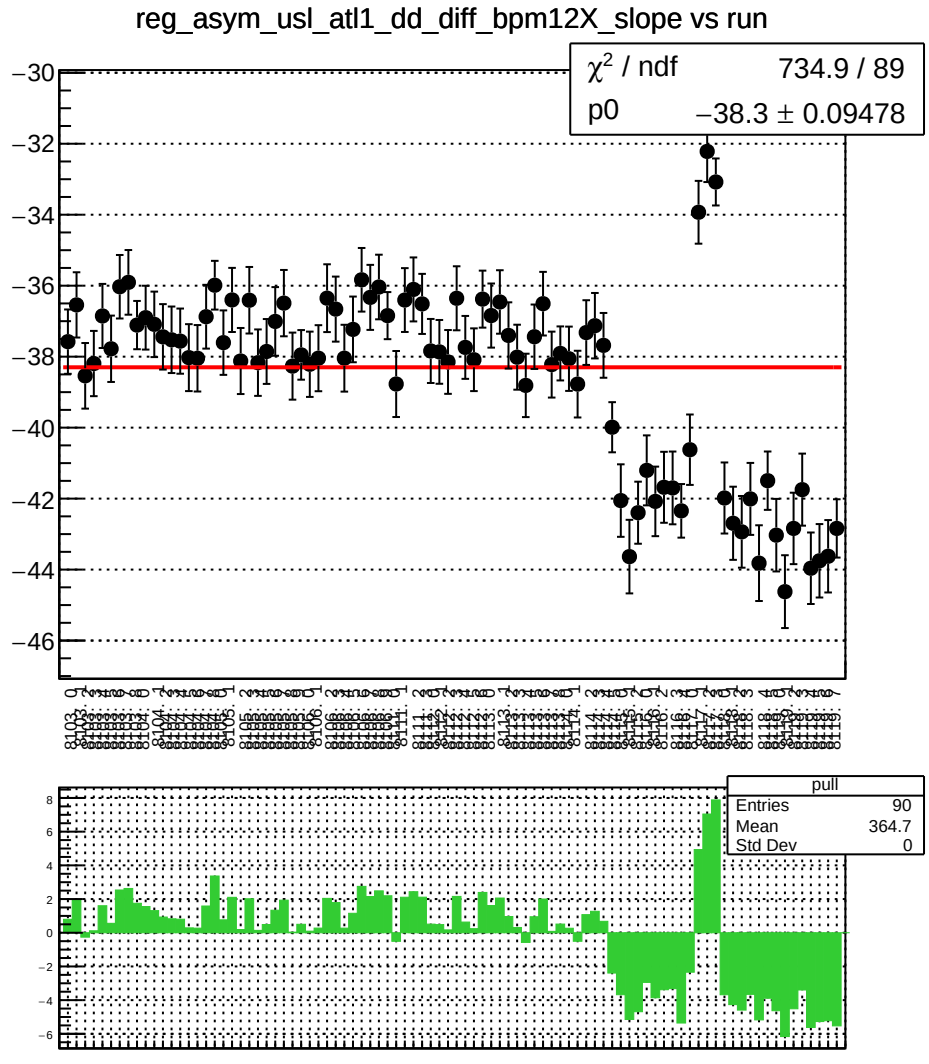

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.09 / 89
p0 11.97 ± 2.357
pull
Entries 90
Mean −536
Std Dev 0

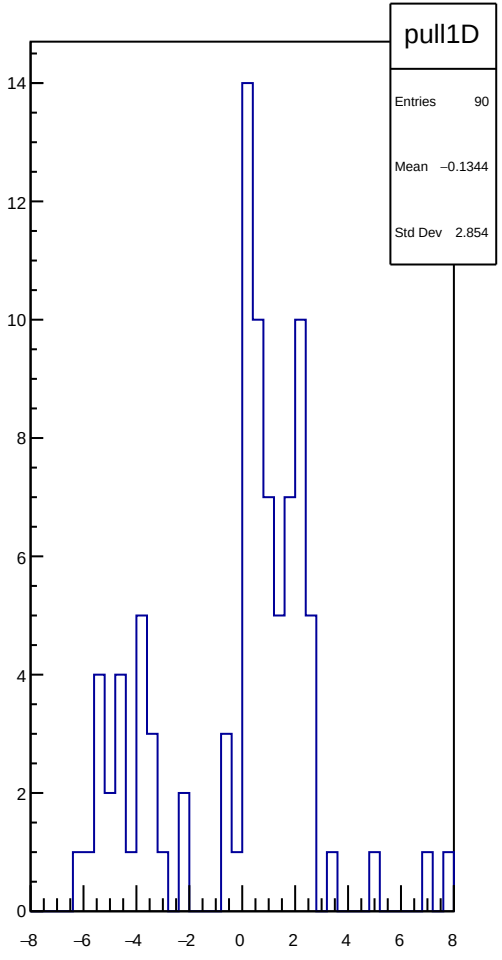

pull1D
Entries 90
Mean 0.003183
Std Dev 0.8569

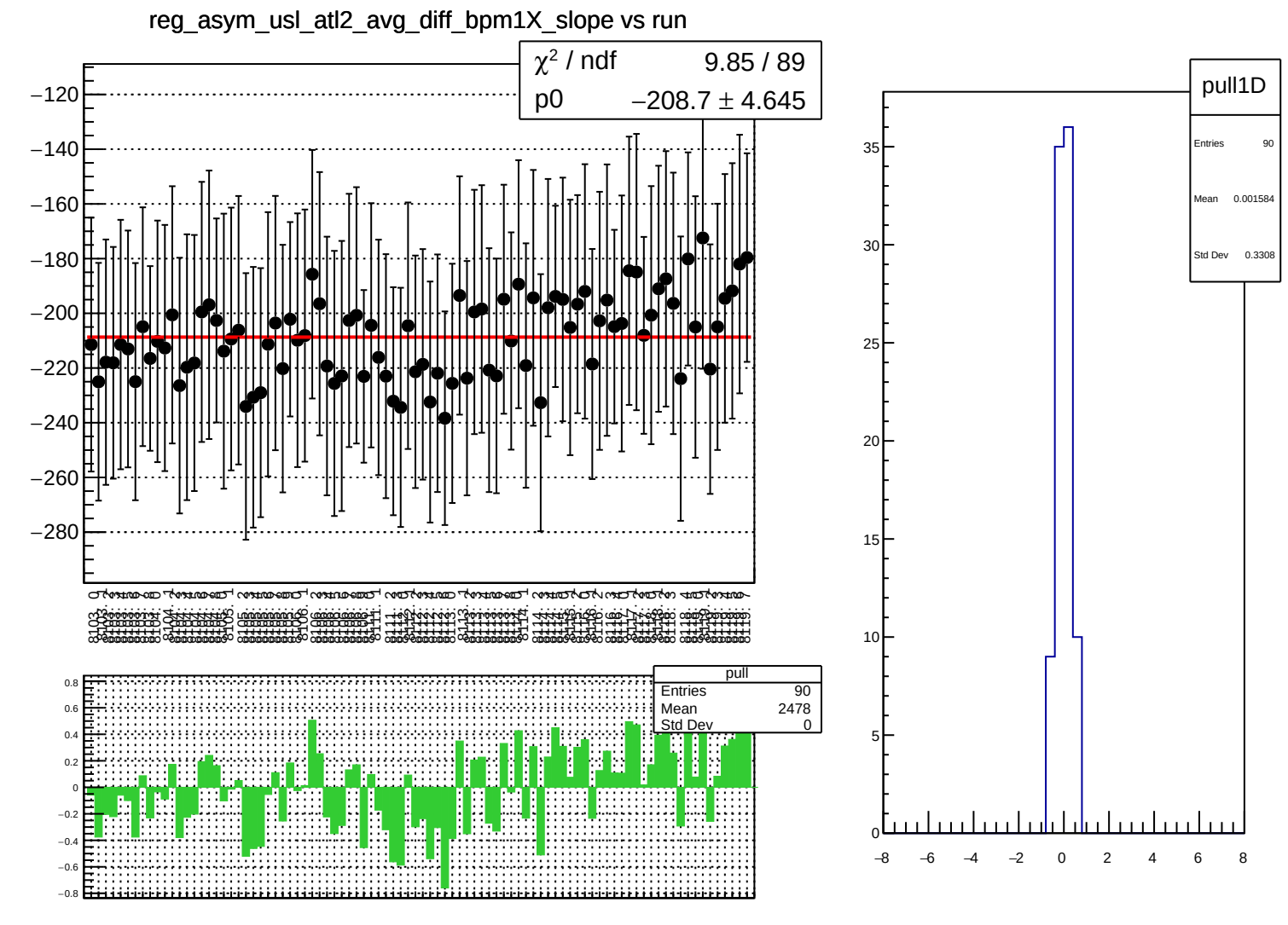

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.43 / 89
p0 22.46 ± 1.493
pull
Entries 90
Mean 382.9
Std Dev 0
pull1D
Entries 90
Mean 0.006961
Std Dev 0.872

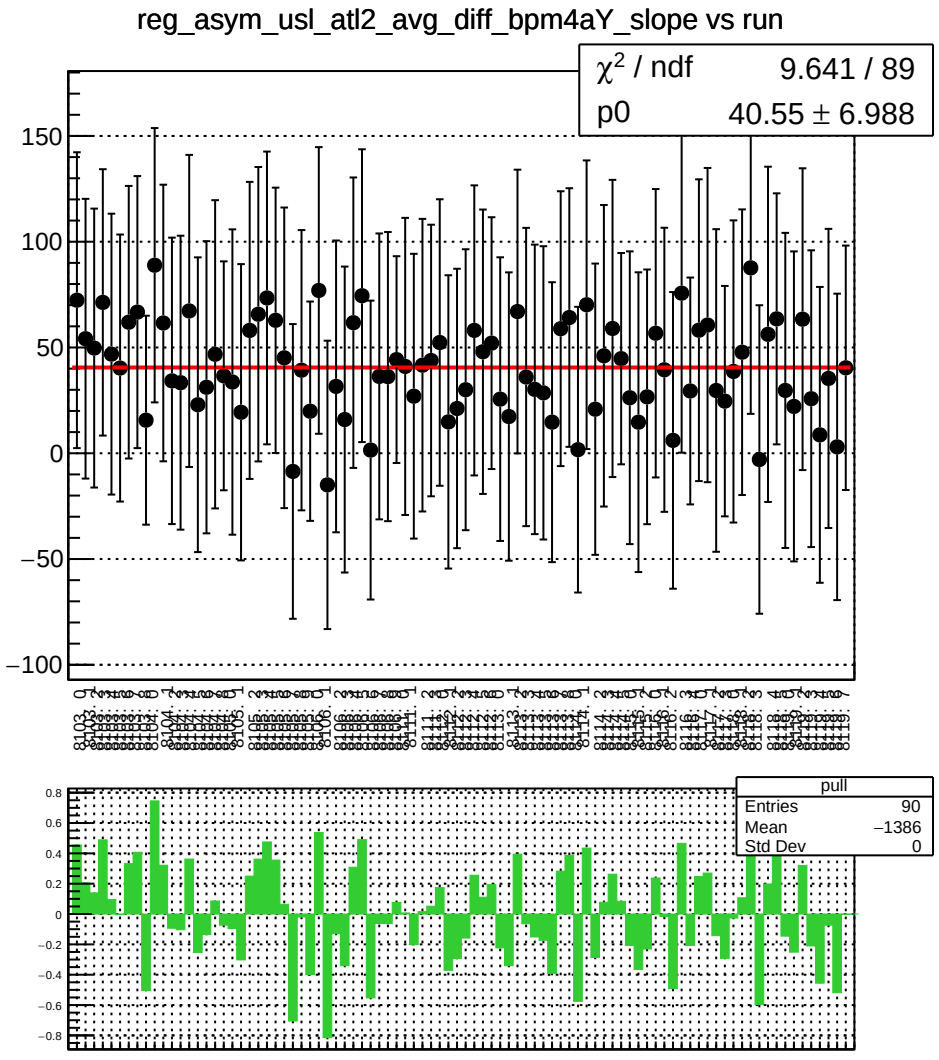

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.17 / 89
p0 7.723 ± 2.52
pull
Entries 90
Mean −425.9
Std Dev 0

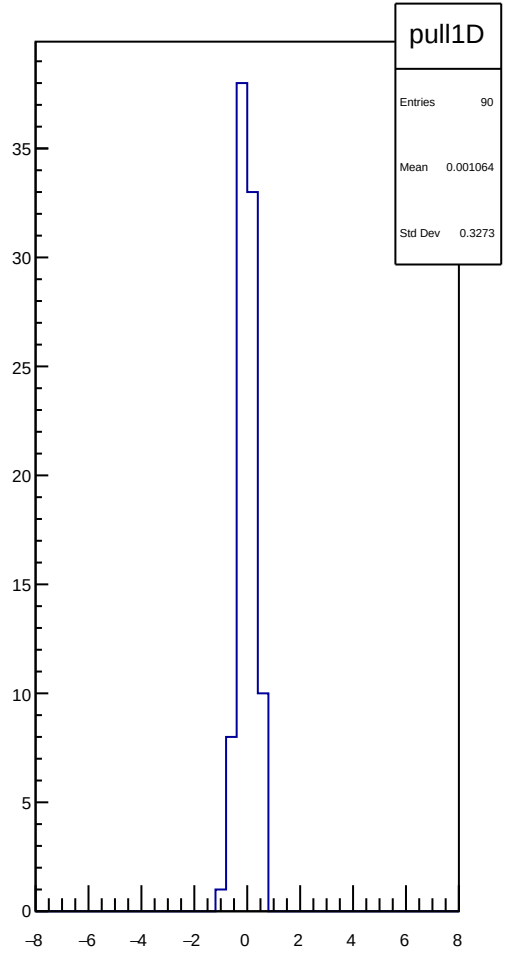

pull1D
Entries 90
Mean −0.003197
Std Dev 0.8575

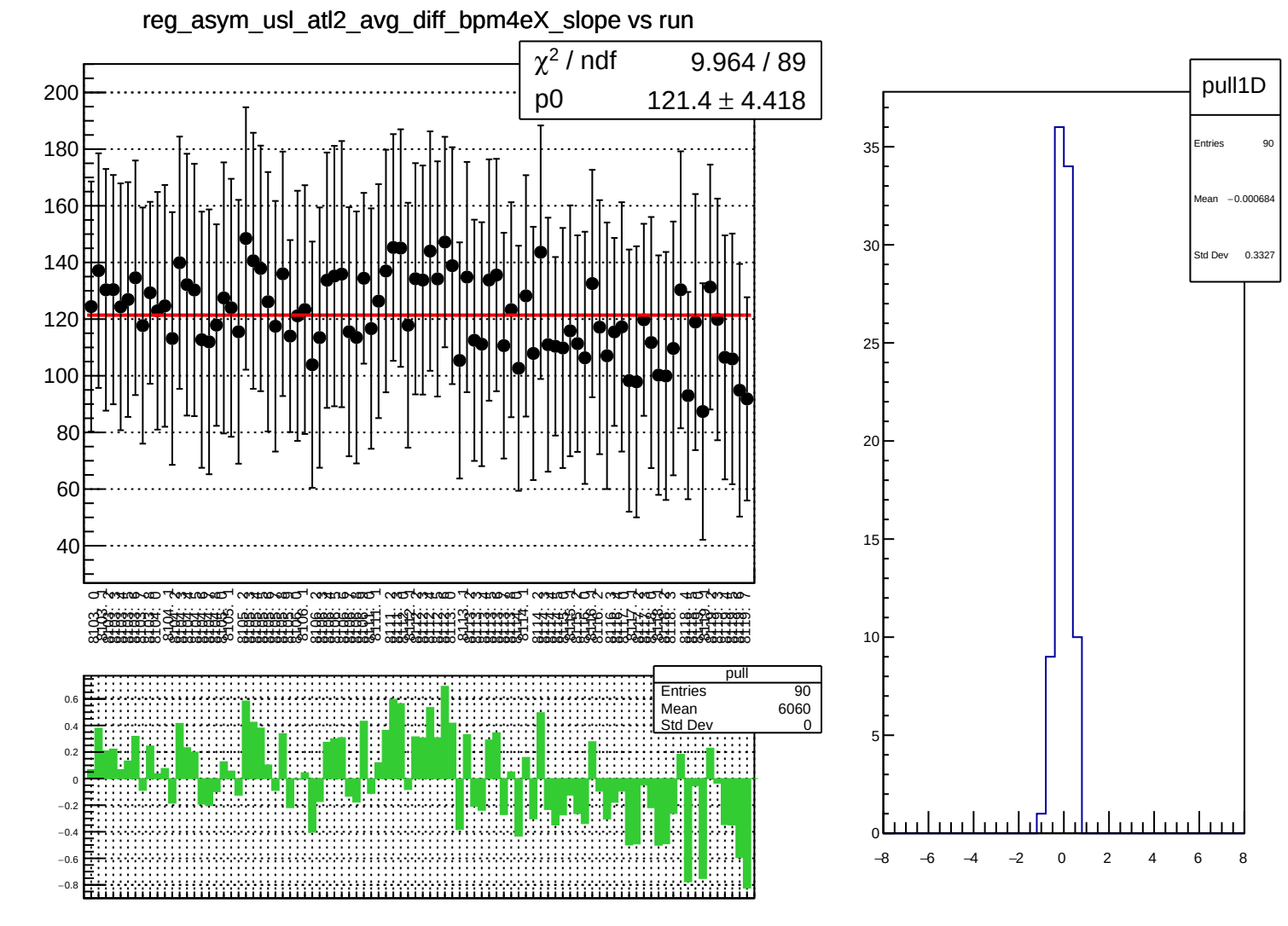

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 734.9 / 89
p0 −38.3 ± 0.09478
pull
Entries 90
Mean 364.7
Std Dev 0

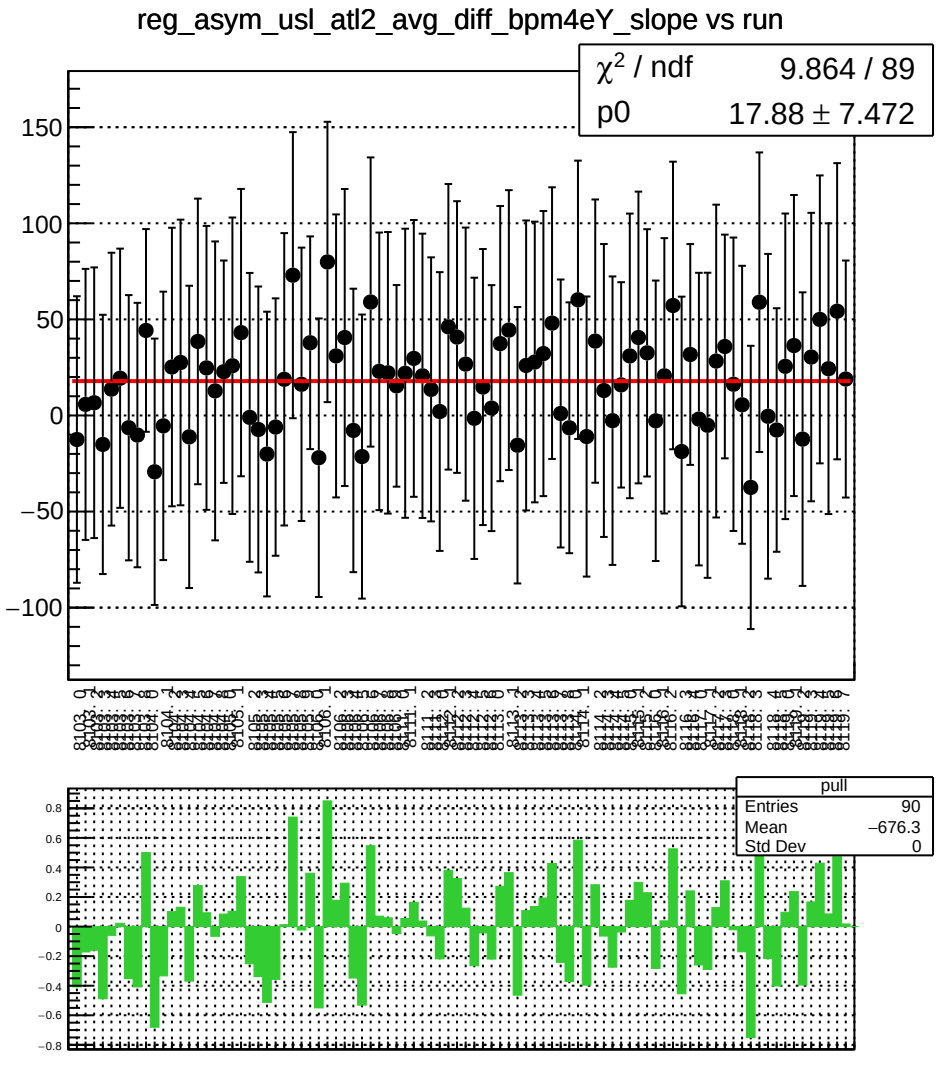

pull1D
Entries 90
Mean −0.1344
Std Dev 2.854

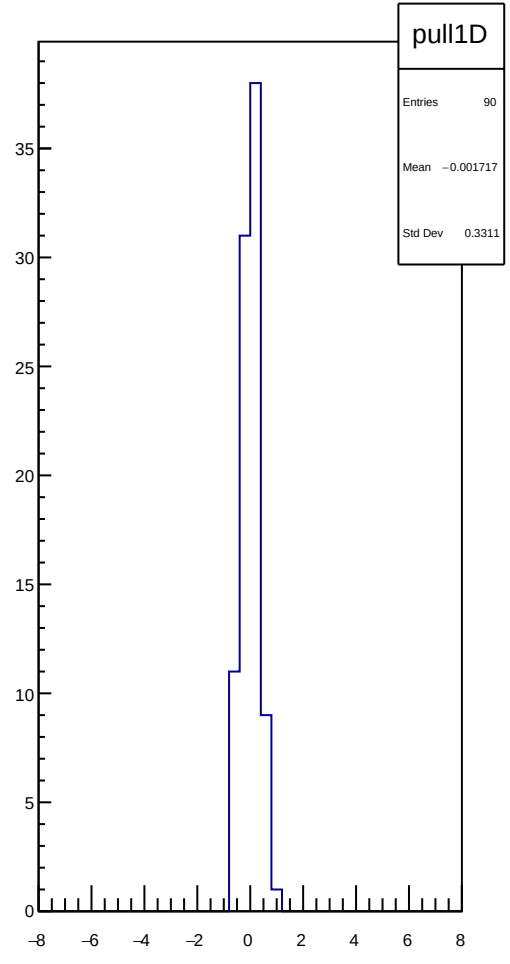

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.85 / 89
p0 −208.7 ± 4.645
pull
Entries 90
Mean 2478
Std Dev 0
pull1D
Entries 90
Mean 0.001584
Std Dev 0.3308

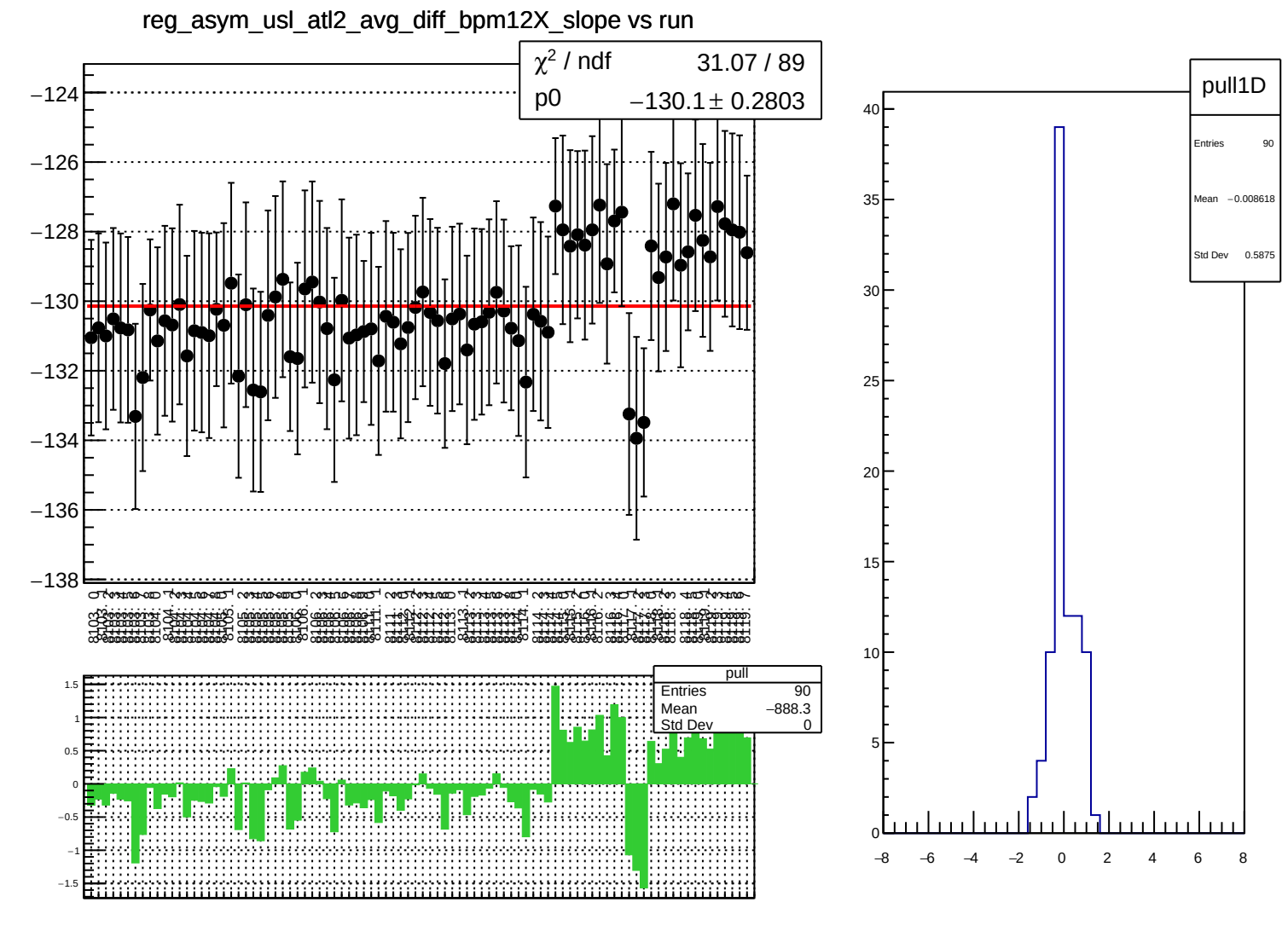

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.641 / 89
p0 40.55 ± 6.988
150
100
50
0
−50
−100
pull
Entries 90
Mean −1386
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

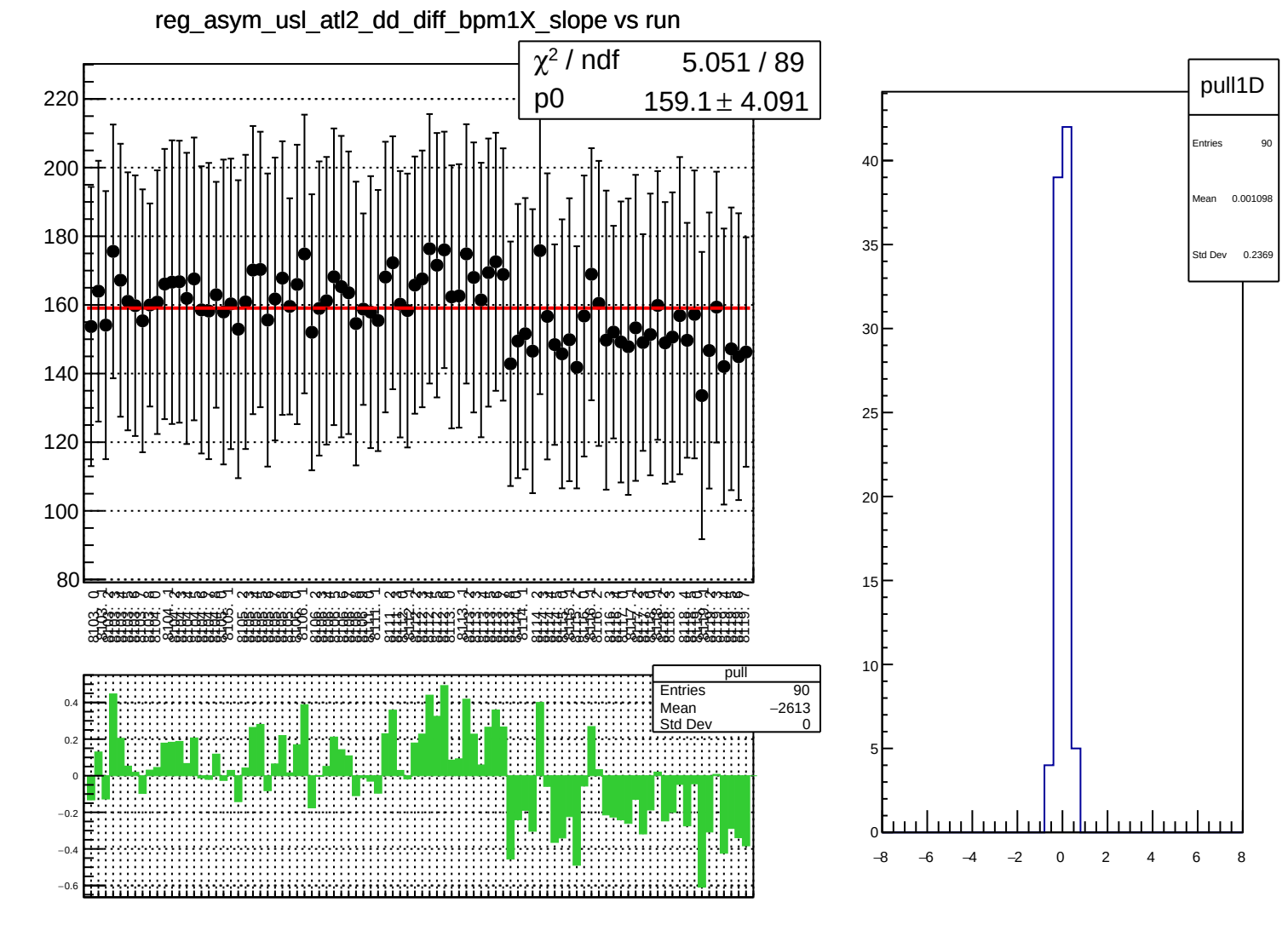

pull1D
Entries 90
Mean 0.001064
Std Dev 0.3273
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

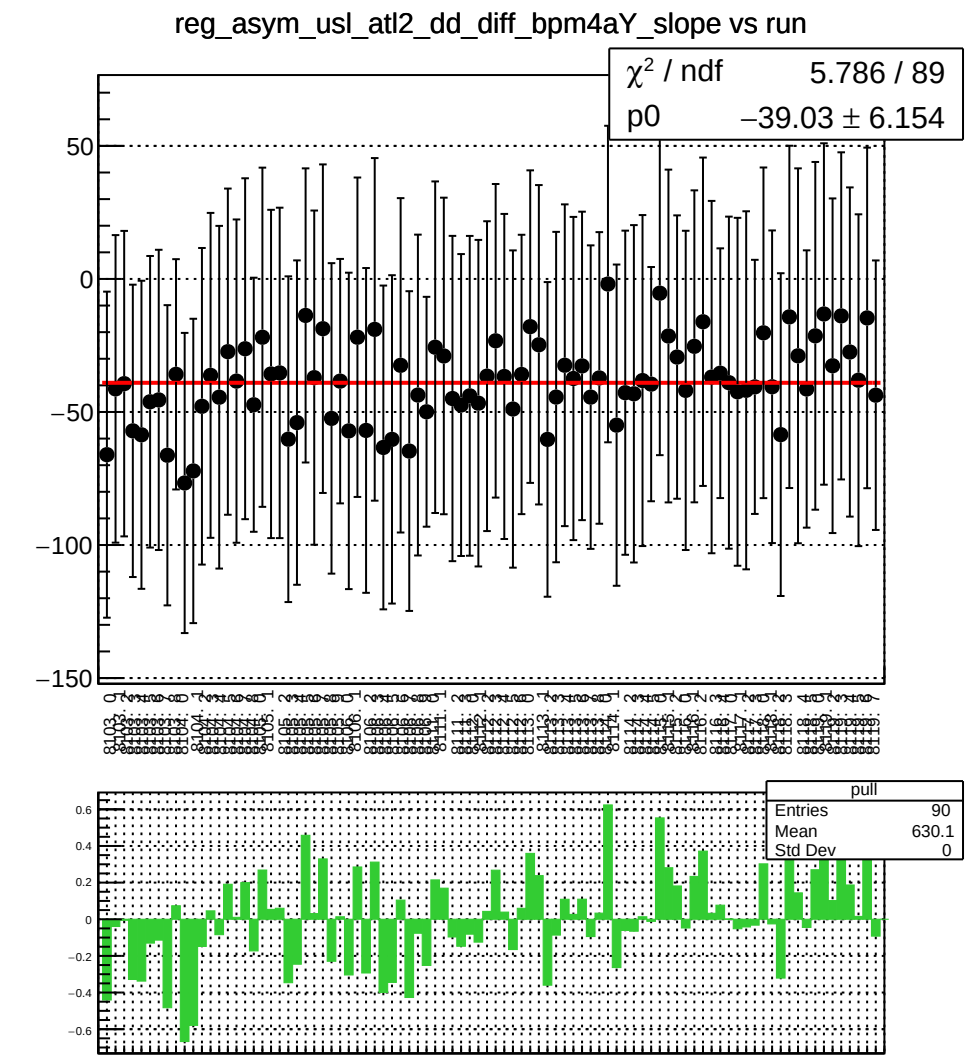

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.964 / 89
p0 121.4 ± 4.418
pull
Entries 90
Mean 6060
Std Dev 0
pull1D
Entries 90
Mean −0.000684
Std Dev 0.3327

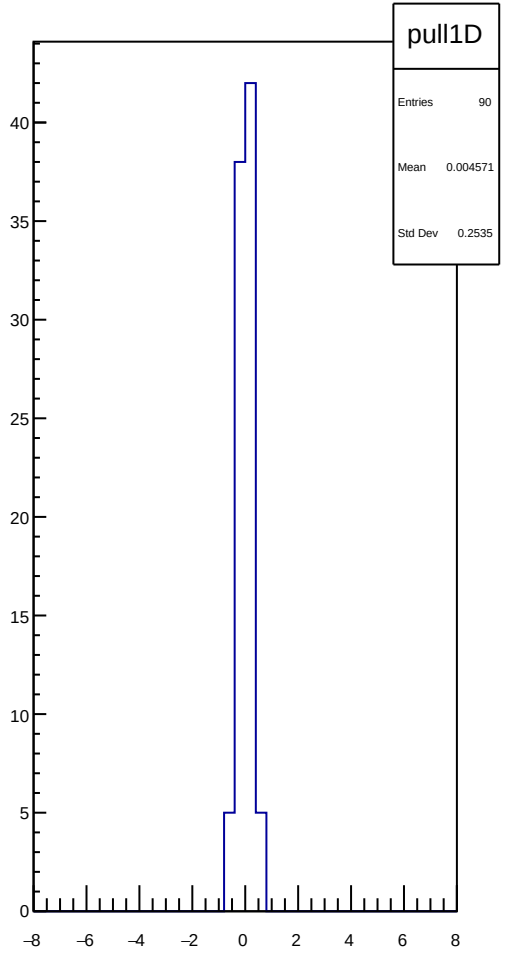

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.864 / 89
p0 17.88 ± 7.472
150
100
50
0
−50
−100
pull
Entries 90
Mean −676.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

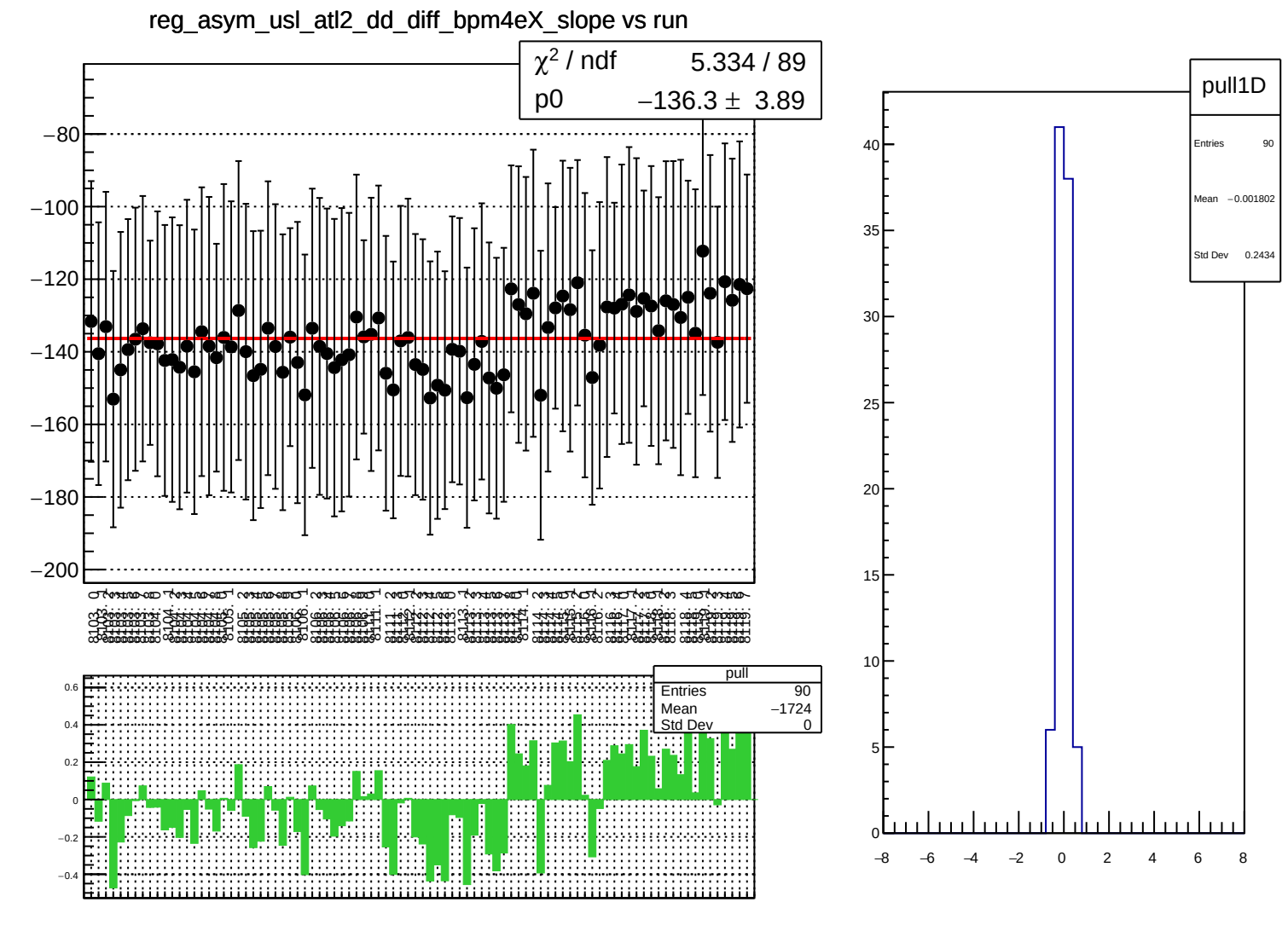

pull1D
Entries 90
Mean −0.001717
Std Dev 0.3311
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

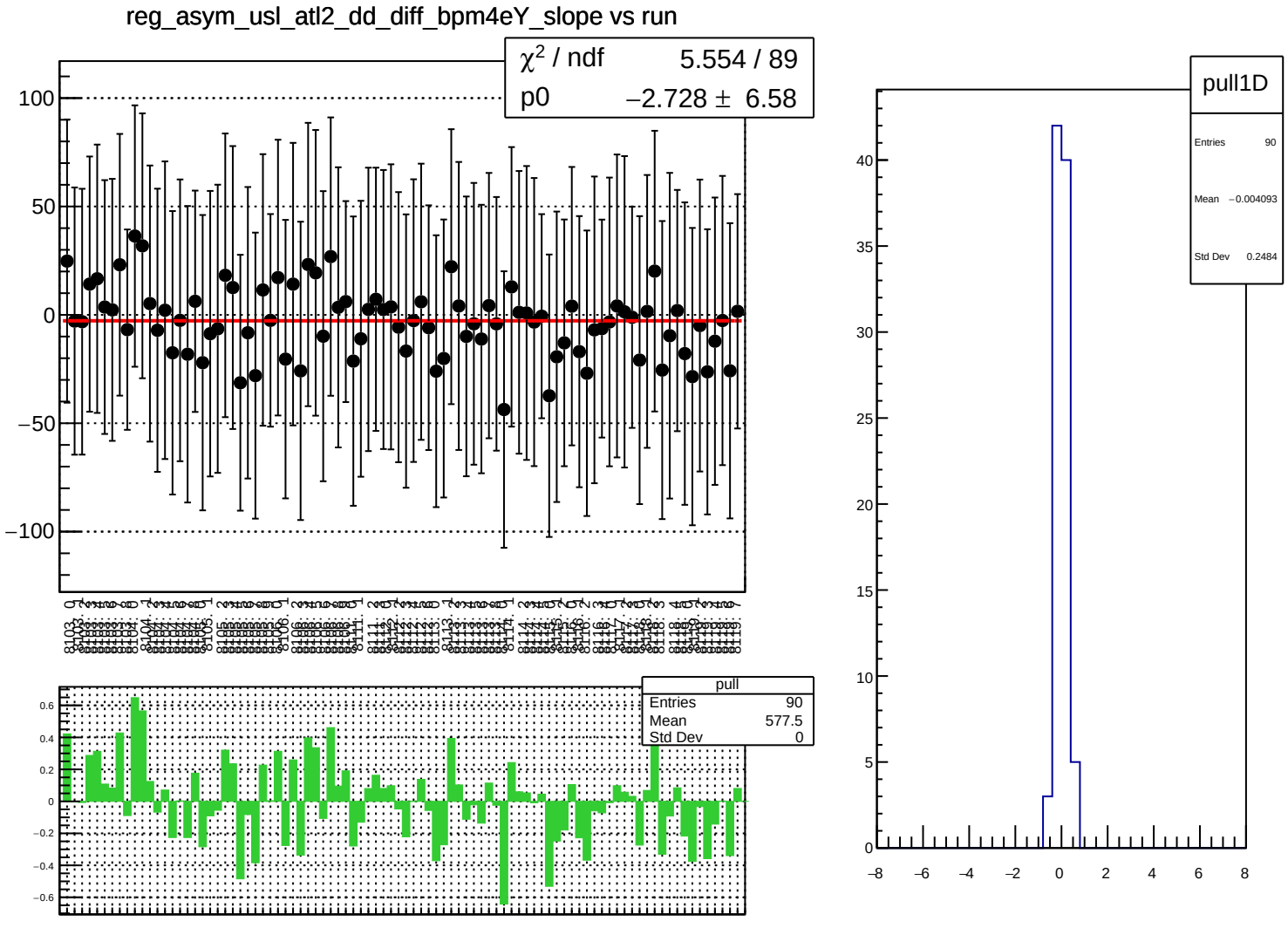

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 31.07 / 89
p0 −130.1 ± 0.2803
pull
Entries 90
Mean −888.3
Std Dev 0
pull1D
Entries 90
Mean −0.008618
Std Dev 0.5875

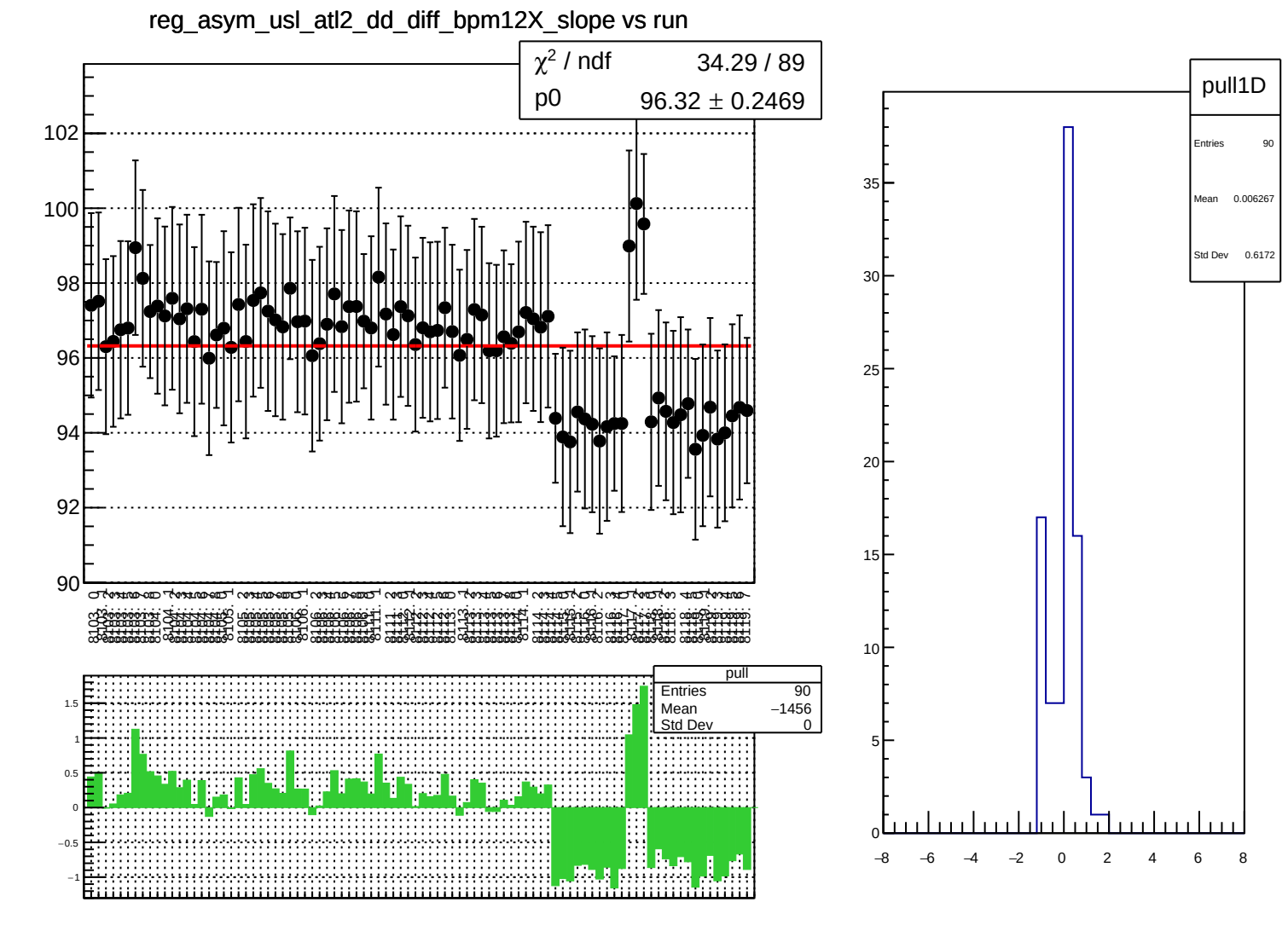

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.051 / 89
p0 159.1 ± 4.091
pull
Entries 90
Mean −2613
Std Dev 0
pull1D
Entries 90
Mean 0.001098
Std Dev 0.2369

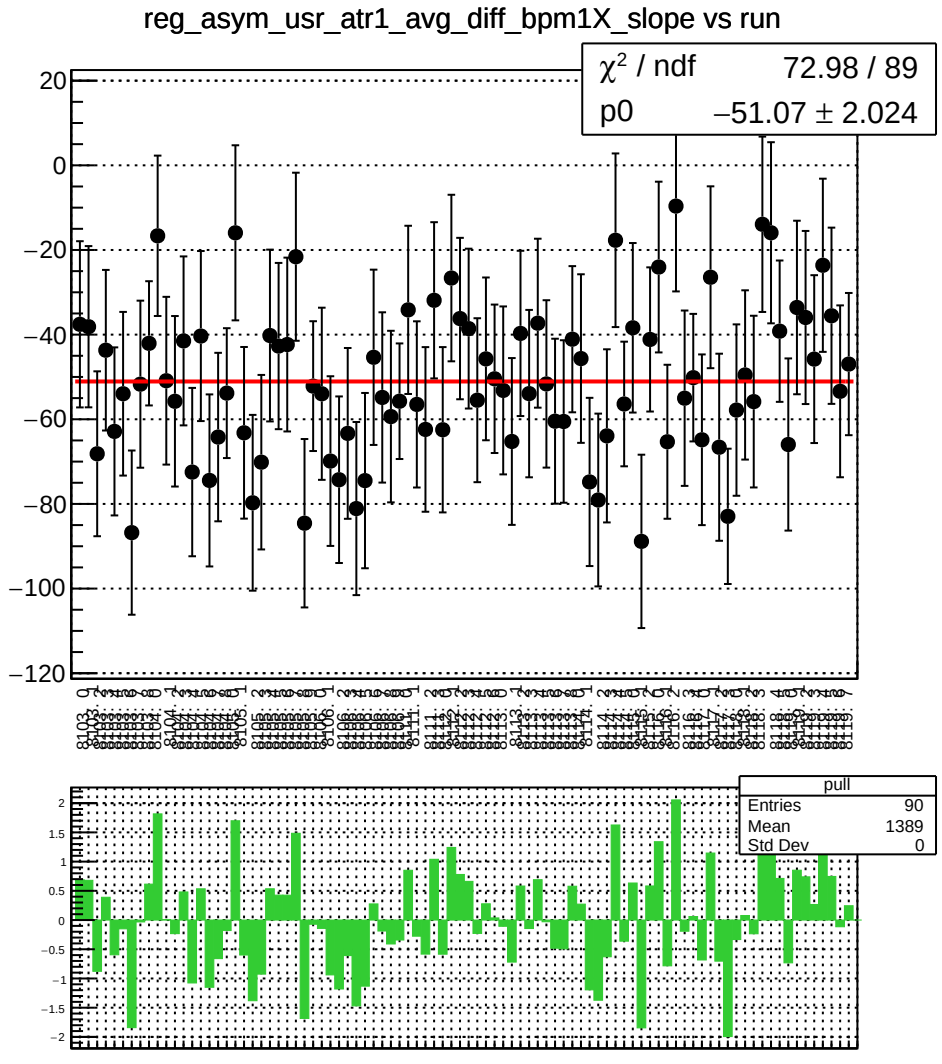

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.786 / 89
p0 −39.03 ± 6.154
50
0
−50
−100
−150
pull
Entries 90
Mean 630.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

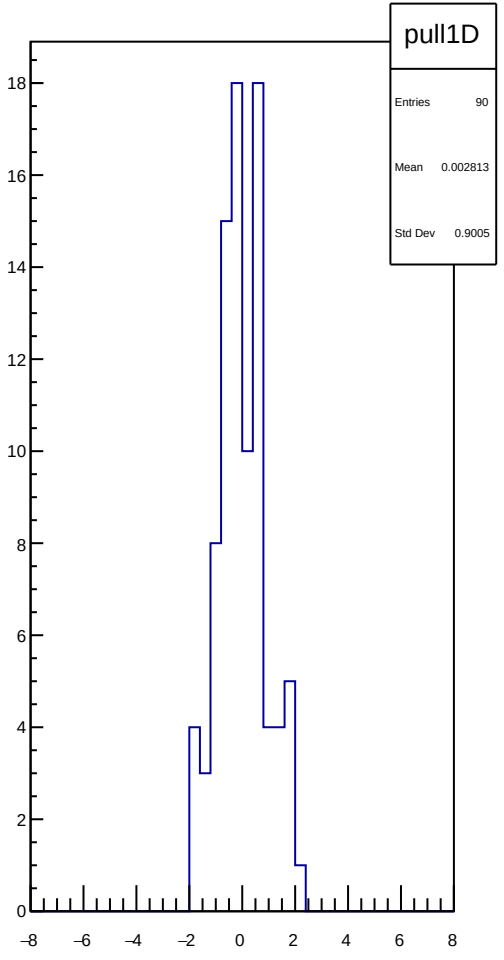

pull1D
Entries 90
Mean 0.004571
Std Dev 0.2535
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

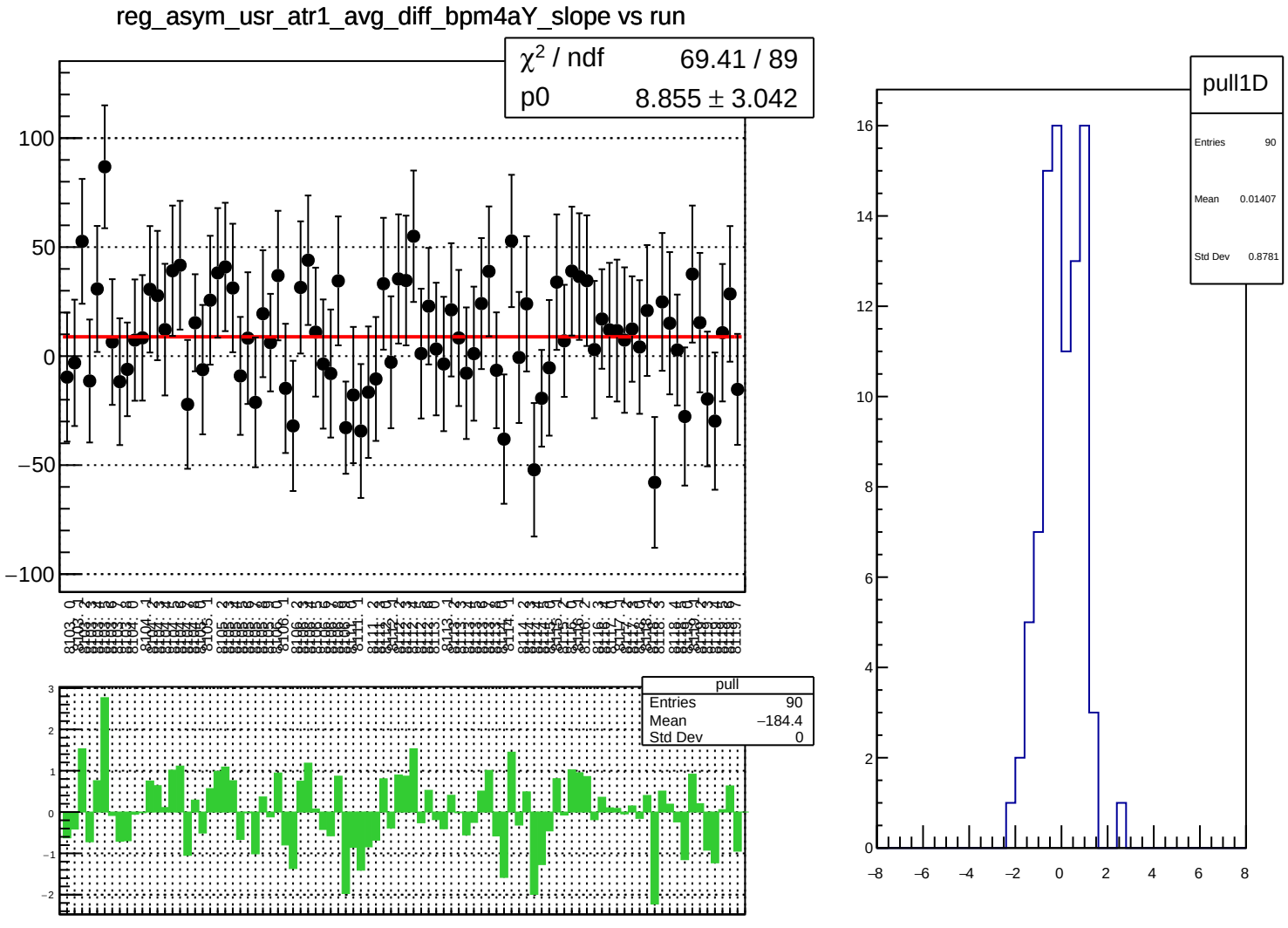

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.334 / 89
p0 −136.3 ± 3.89
pull
Entries 90
Mean −1724
Std Dev 0
pull1D
Entries 90
Mean −0.001802
Std Dev 0.2434

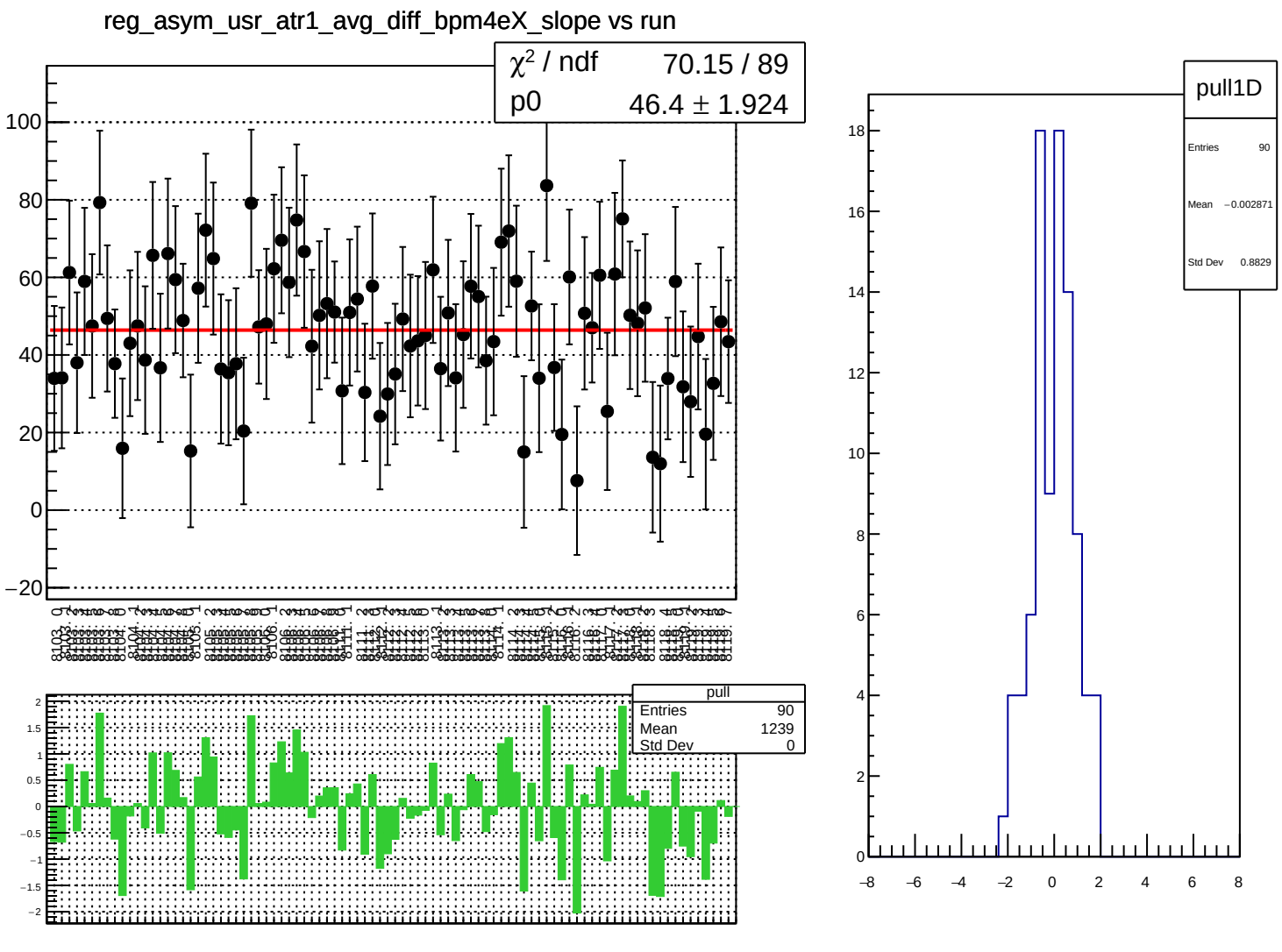

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.554 / 89
p0 −2.728 ± 6.58
100
50
0
−50
−100
pull
Entries 90
Mean 577.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 90
Mean −0.004093
Std Dev 0.2484
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

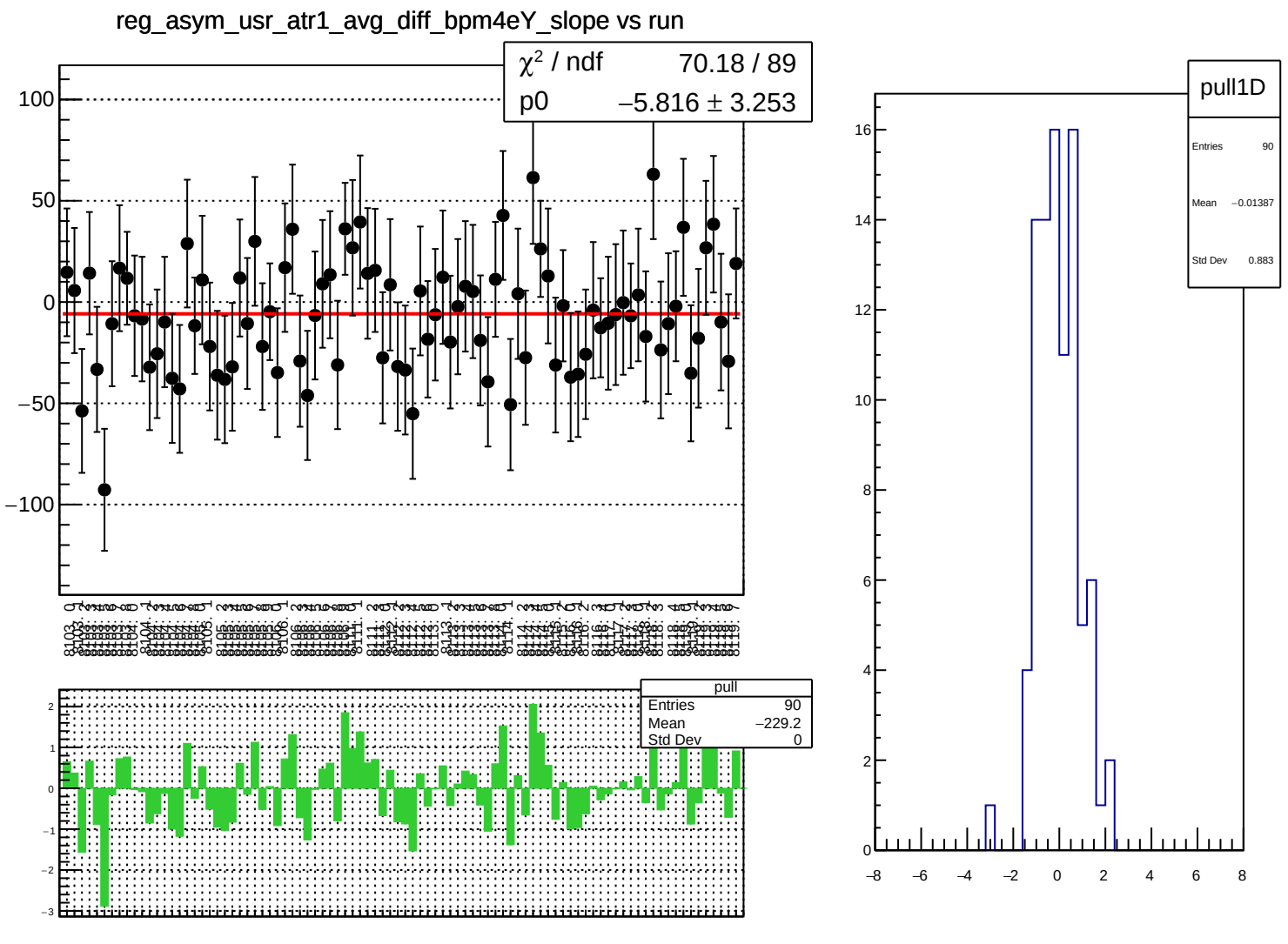

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 34.29 / 89
p0 96.32 ± 0.2469
pull
Entries 90
Mean −1456
Std Dev 0
pull1D
Entries 90
Mean 0.006267
Std Dev 0.6172

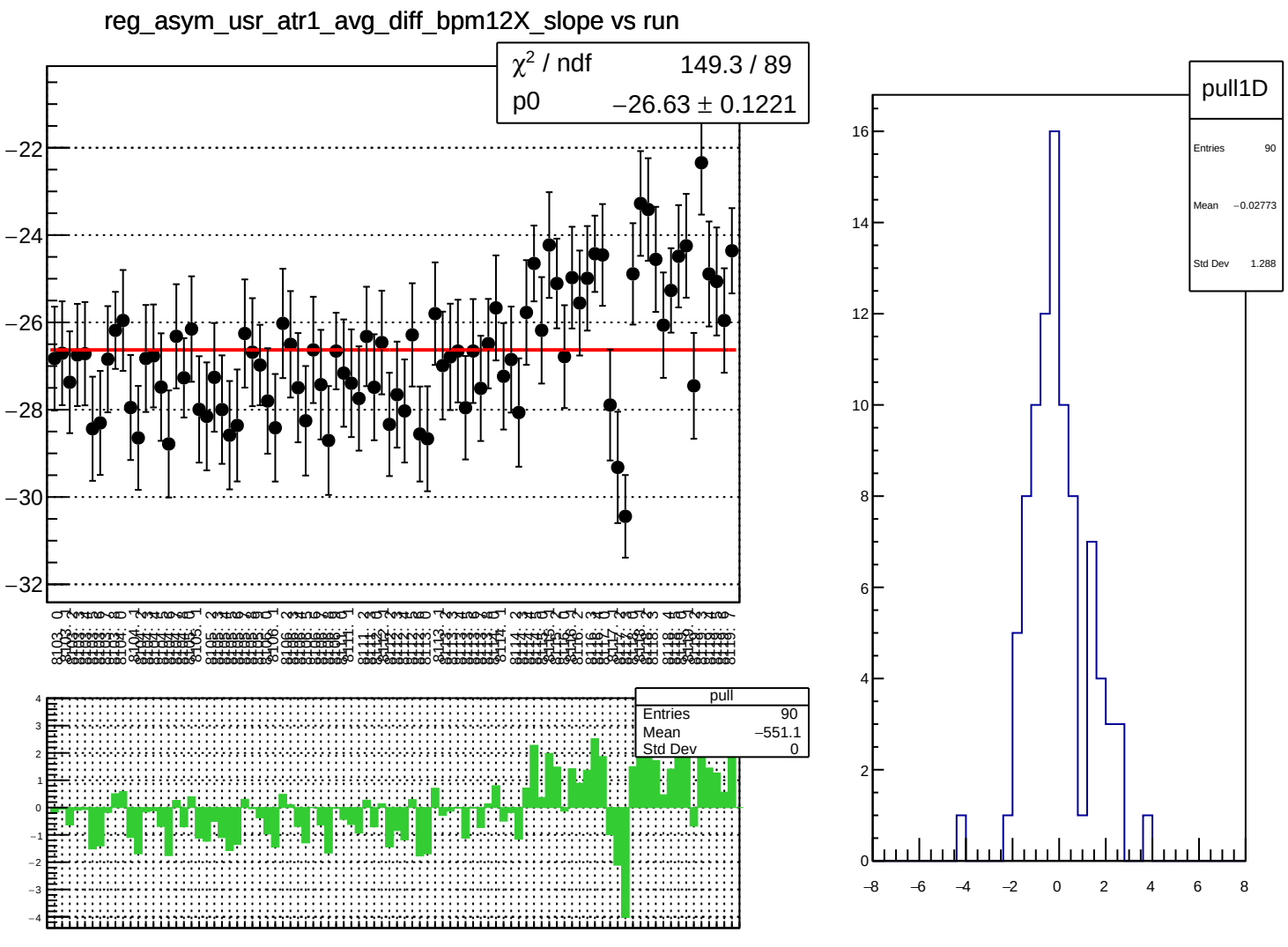

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 72.98 / 89
p0 −51.07 ± 2.024
pull
Entries 90
Mean 1389
Std Dev 0

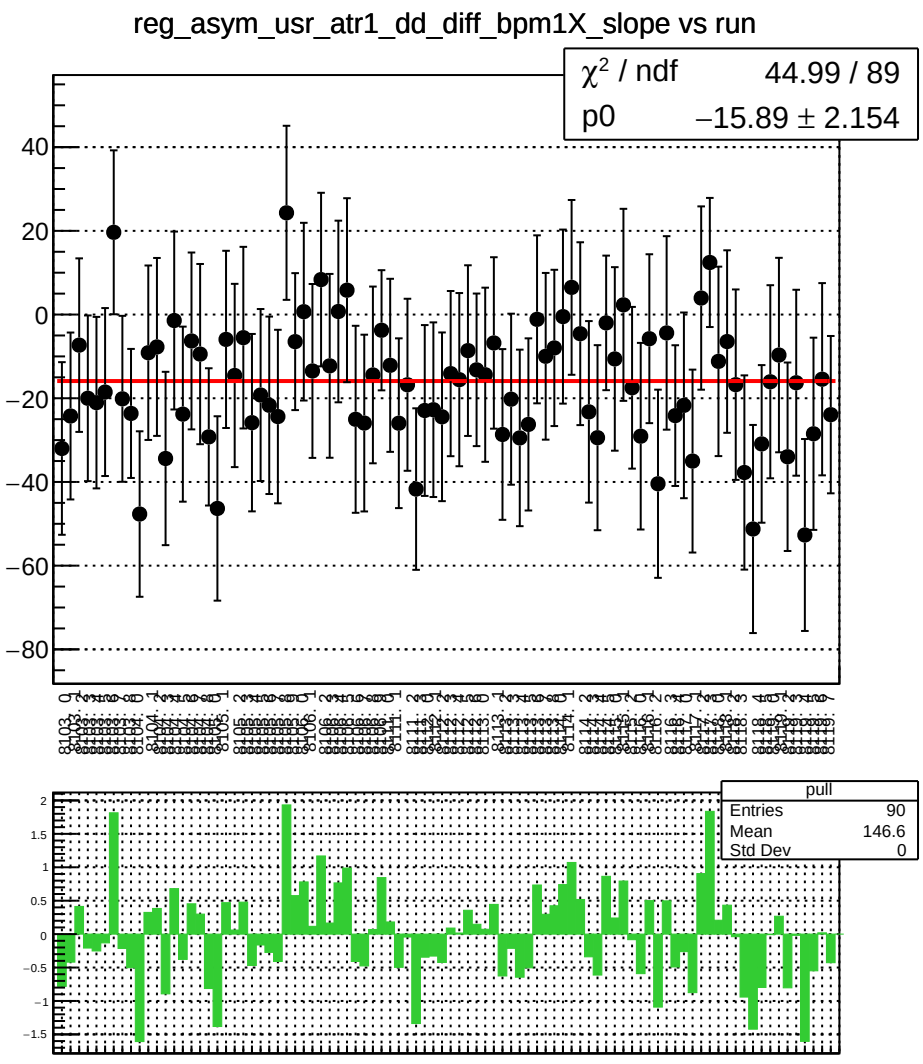

pull1D
Entries 90
Mean 0.002813
Std Dev 0.9005

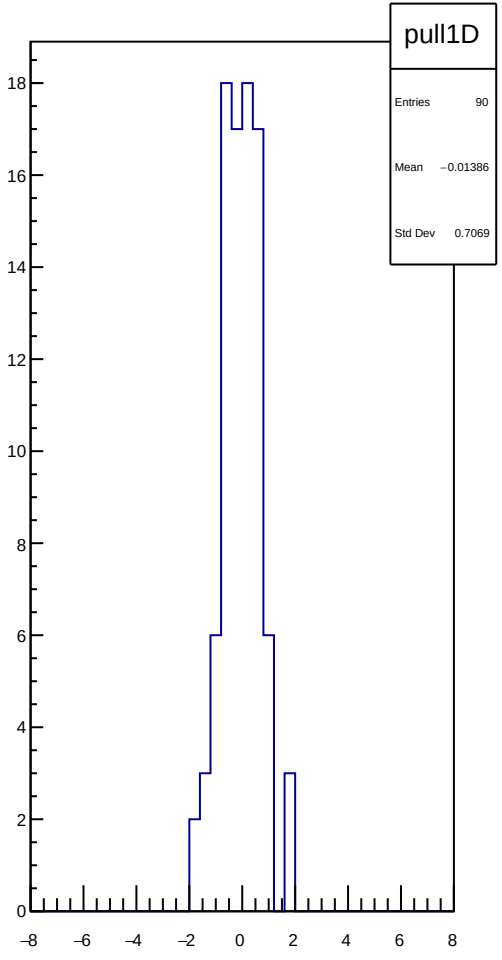

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.41 / 89
p0 8.855 ± 3.042
100
50
0
−50
−100
pull
Entries 90
Mean −184.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.01407
Std Dev 0.8781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

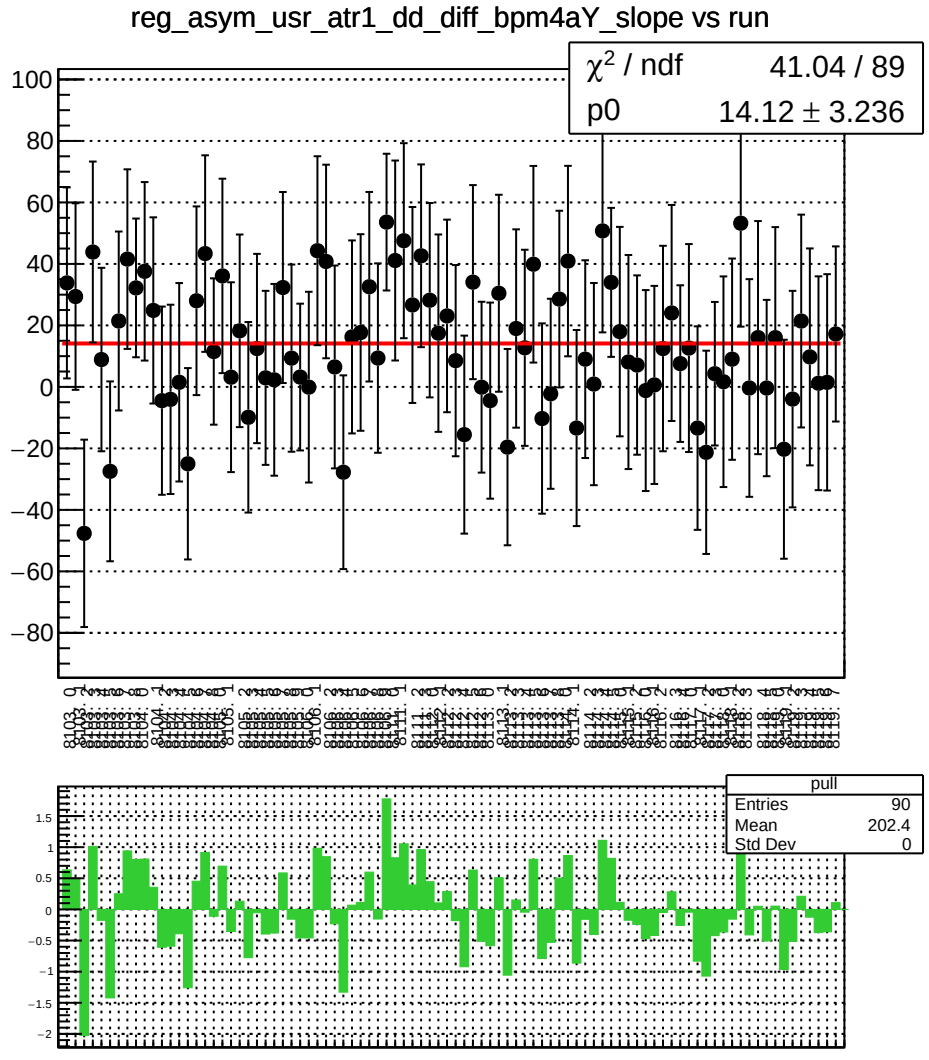

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.15 / 89
p0 46.4 ± 1.924
pull
Entries 90
Mean 1239
Std Dev 0
pull1D
Entries 90
Mean −0.002871
Std Dev 0.8829

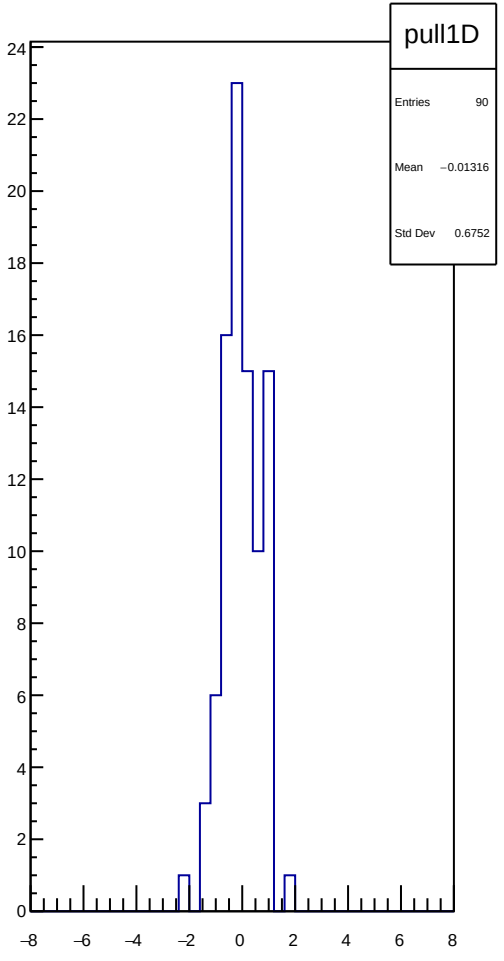

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.18 / 89
p0 −5.816 ± 3.253
100
50
0
−50
−100
pull
Entries 90
Mean −229.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean −0.01387
Std Dev 0.883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

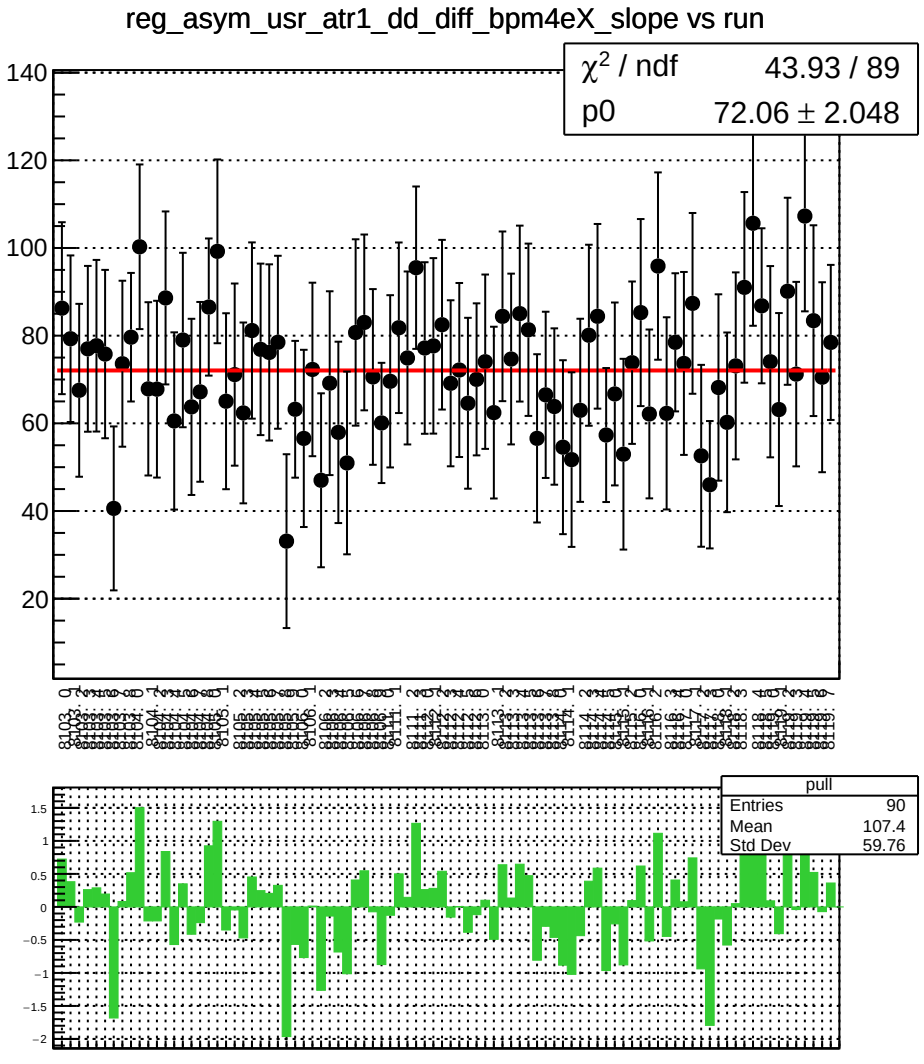

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 149.3 / 89
p0 −26.63 ± 0.1221
pull
Entries 90
Mean −551.1
Std Dev 0
pull1D
Entries 90
Mean −0.02773
Std Dev 1.288

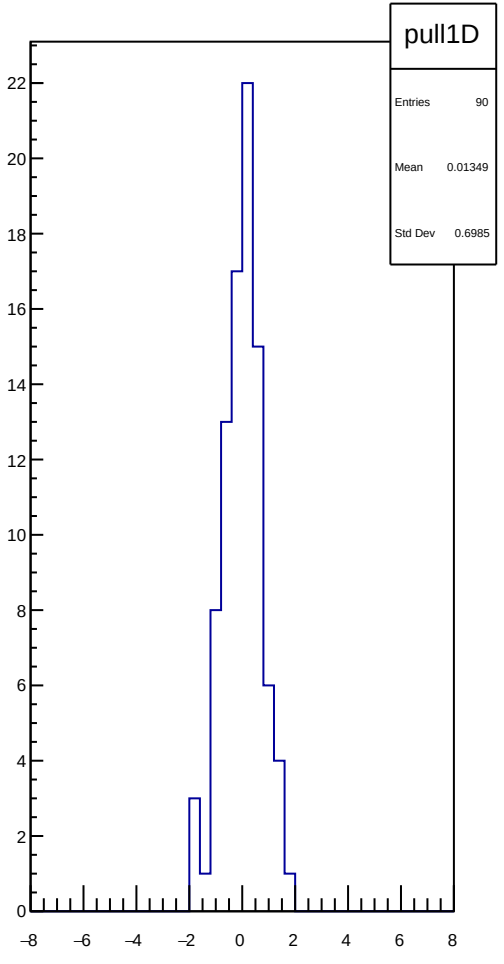

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 44.99 / 89
p0 −15.89 ± 2.154
pull
Entries 90
Mean 146.6
Std Dev 0

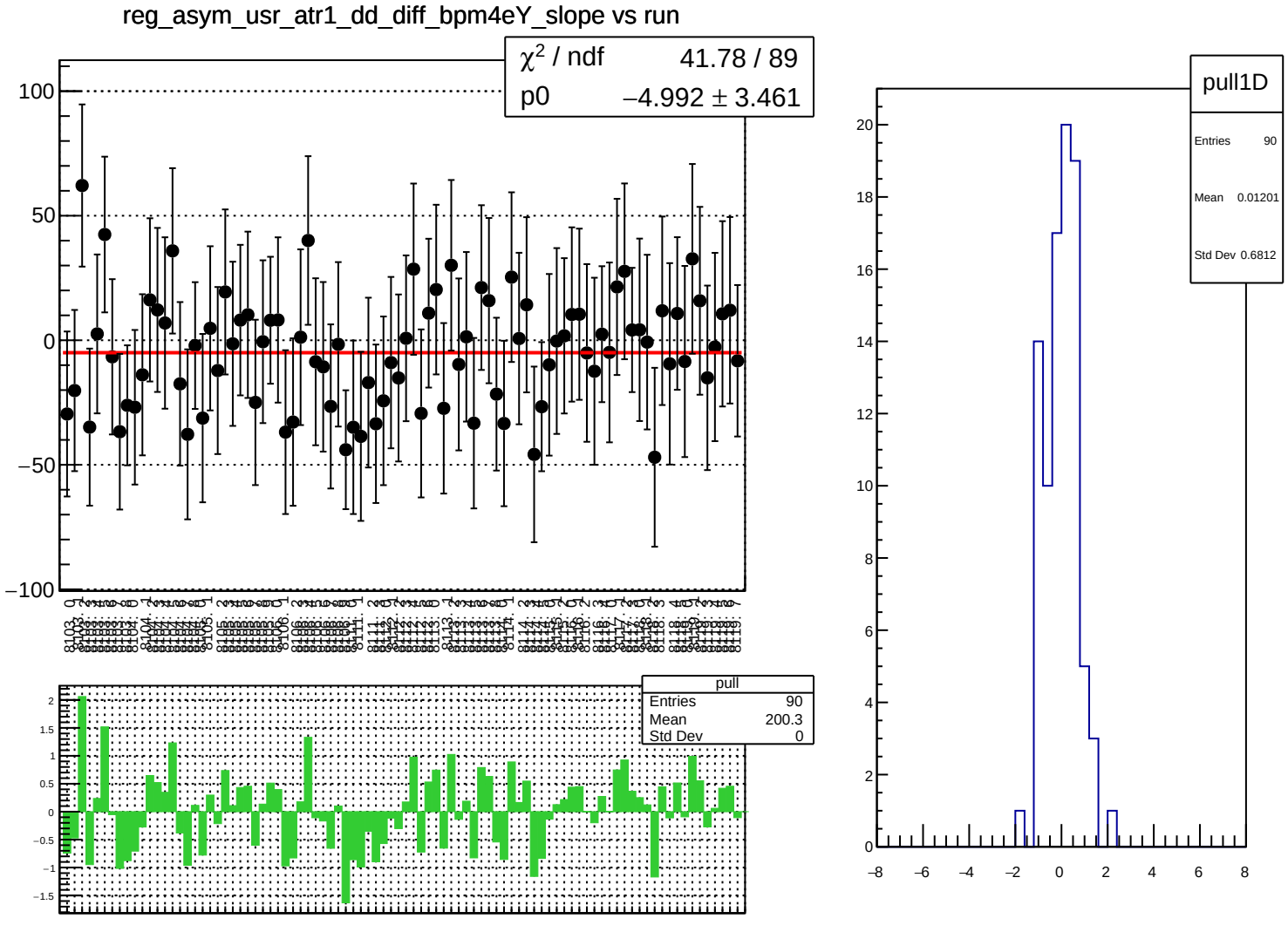

pull1D
Entries 90
Mean −0.01386
Std Dev 0.7069

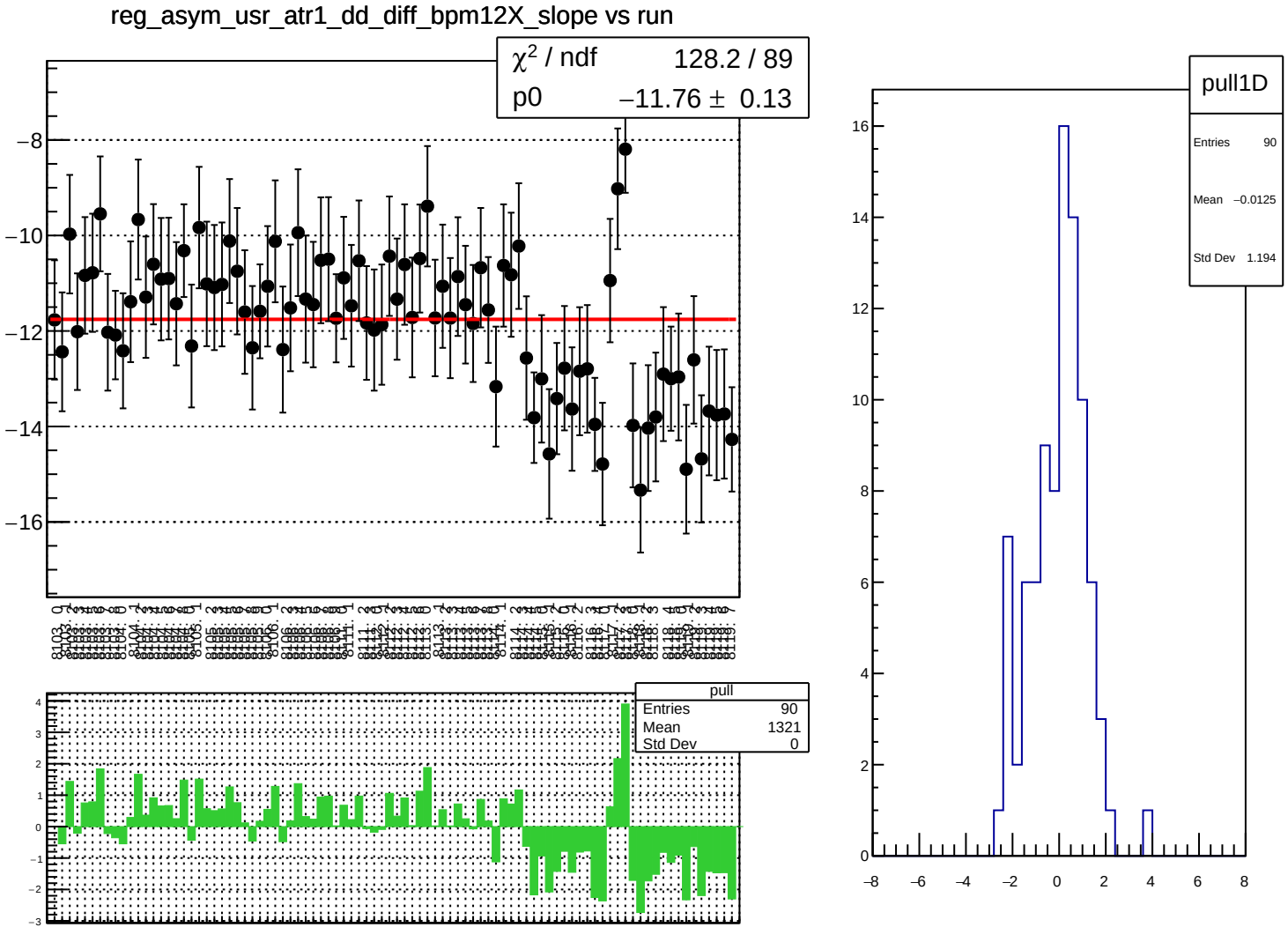

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.04 / 89
p0 14.12 ± 3.236
pull
Entries 90
Mean 202.4
Std Dev 0

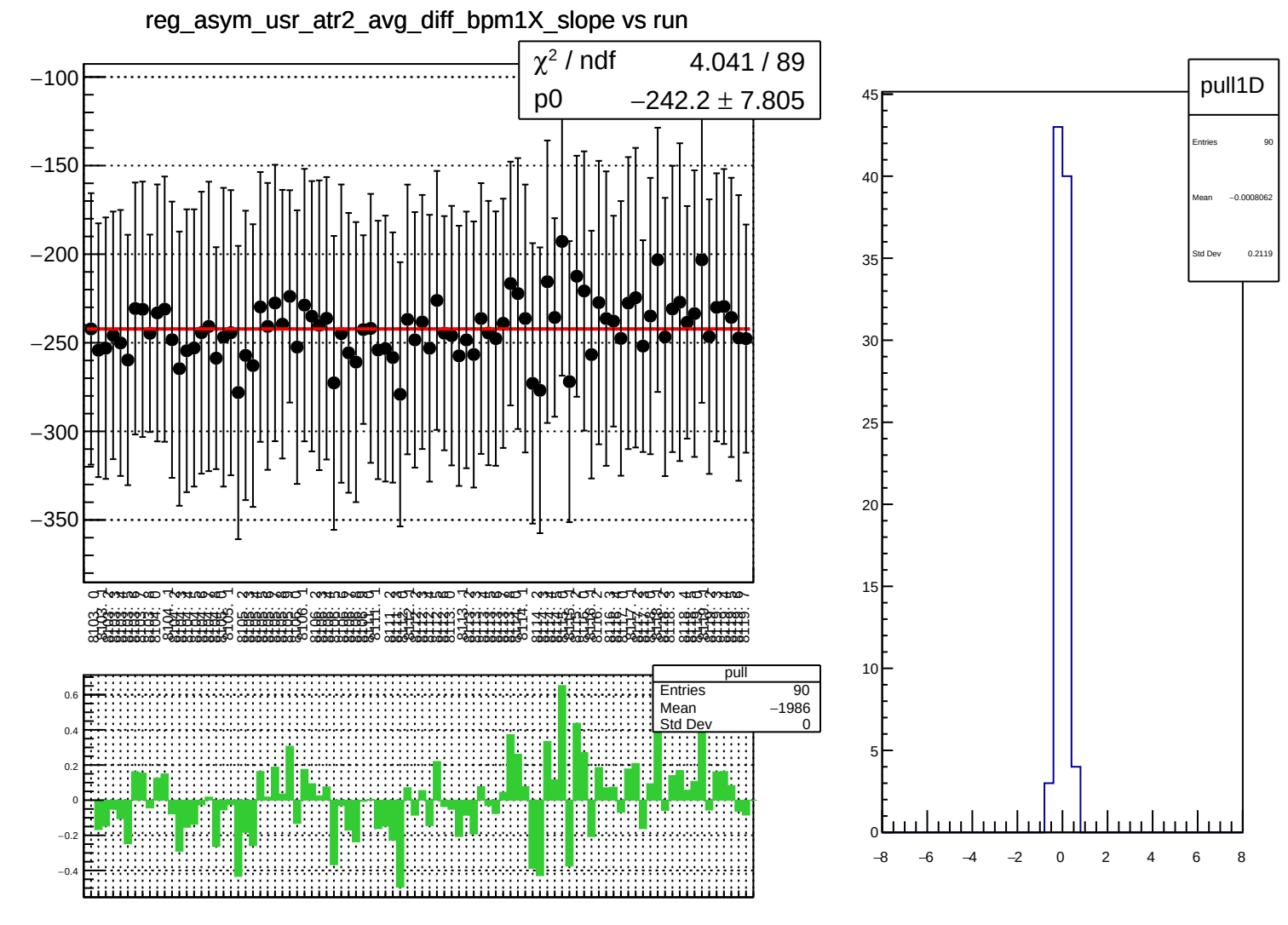

pull1D
Entries 90
Mean −0.01316
Std Dev 0.6752

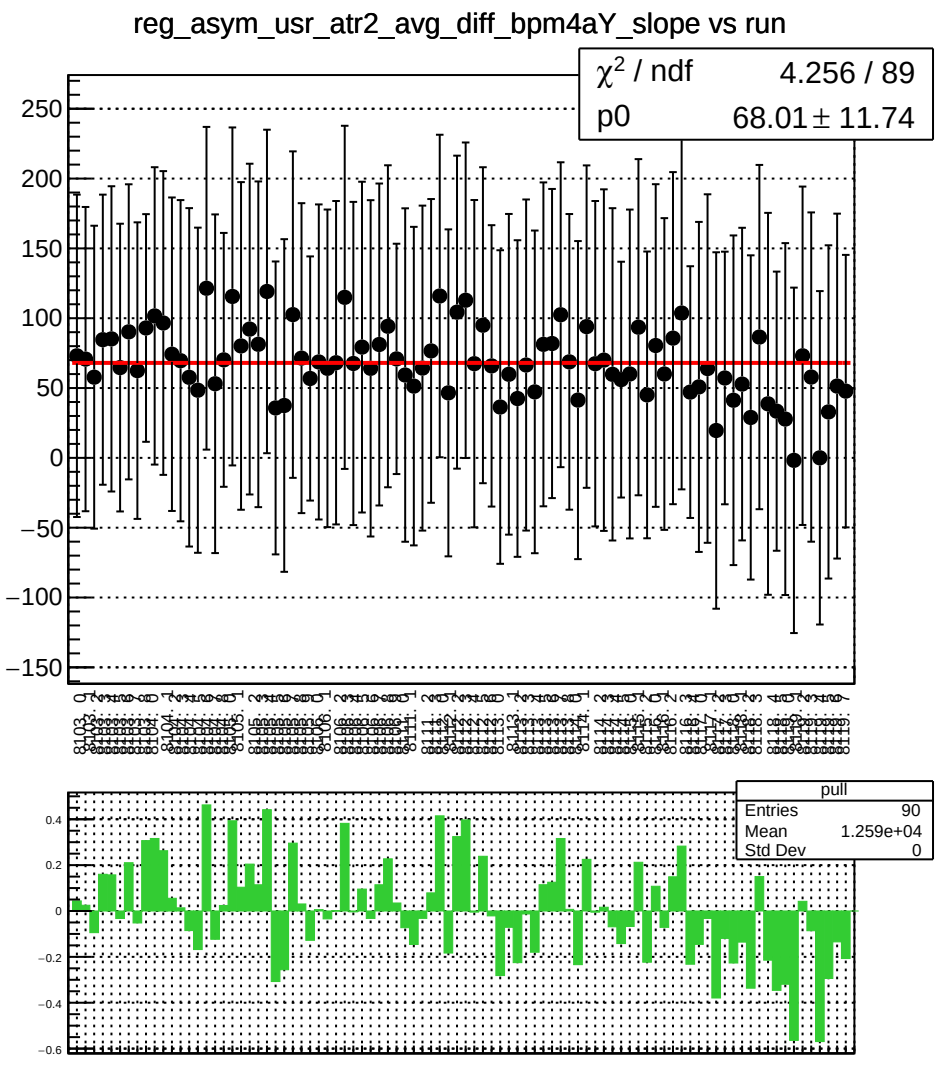

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.93 / 89
p0 72.06 ± 2.048
pull
Entries 90
Mean 107.4
Std Dev 59.76

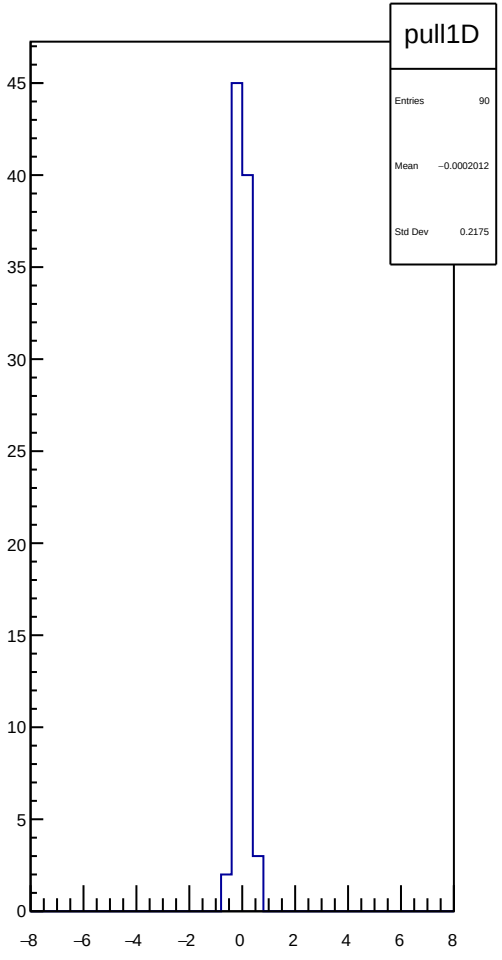

pull1D
Entries 90
Mean 0.01349
Std Dev 0.6985

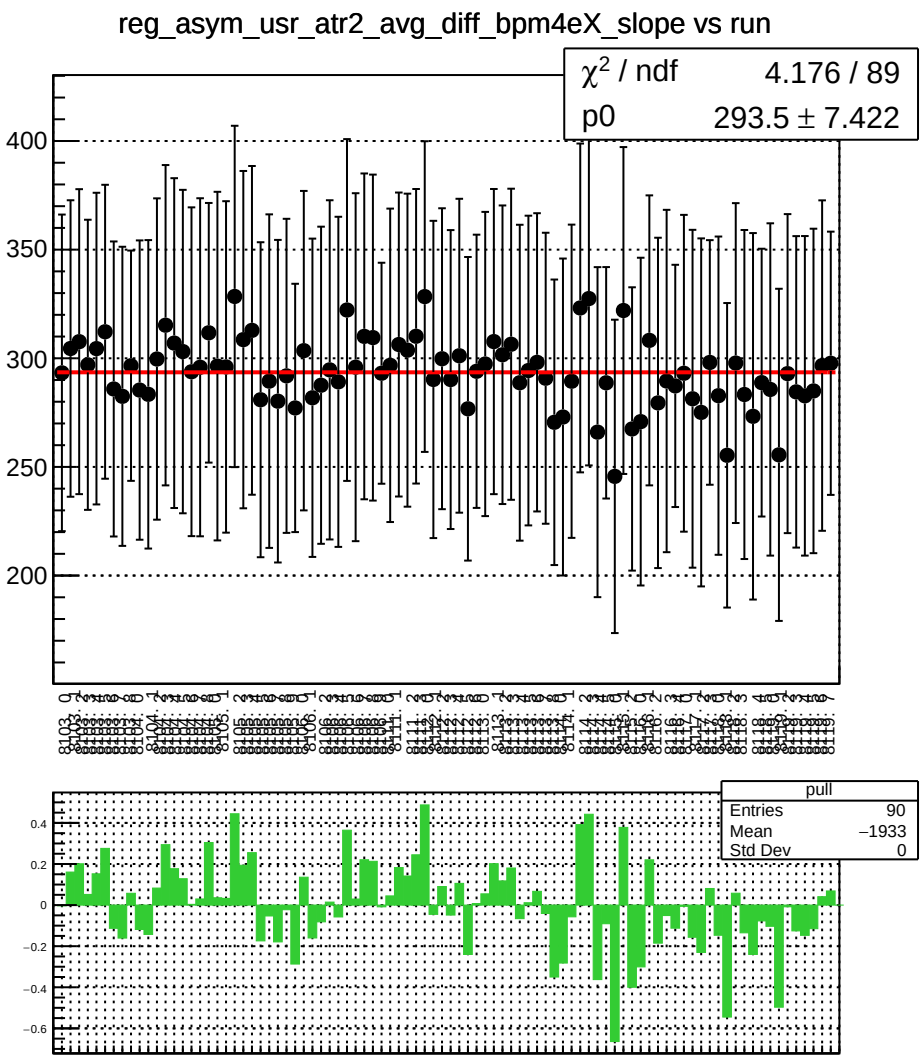

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.78 / 89
p0 −4.992 ± 3.461
100
50
0
−50
−100
pull
Entries 90
Mean 200.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean 0.01201
Std Dev 0.6812
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

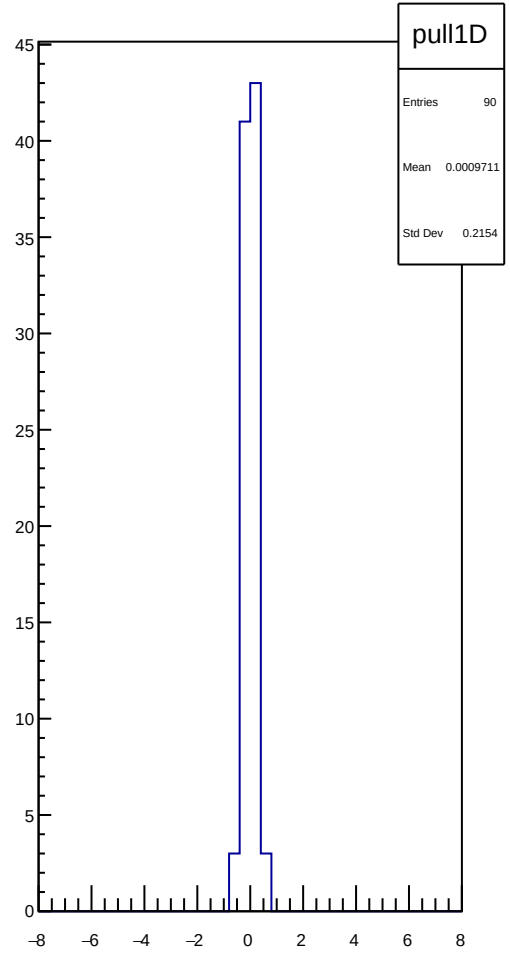

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 128.2 / 89
p0 −11.76 ± 0.13
pull
Entries 90
Mean 1321
Std Dev 0
pull1D
Entries 90
Mean −0.0125
Std Dev 1.194

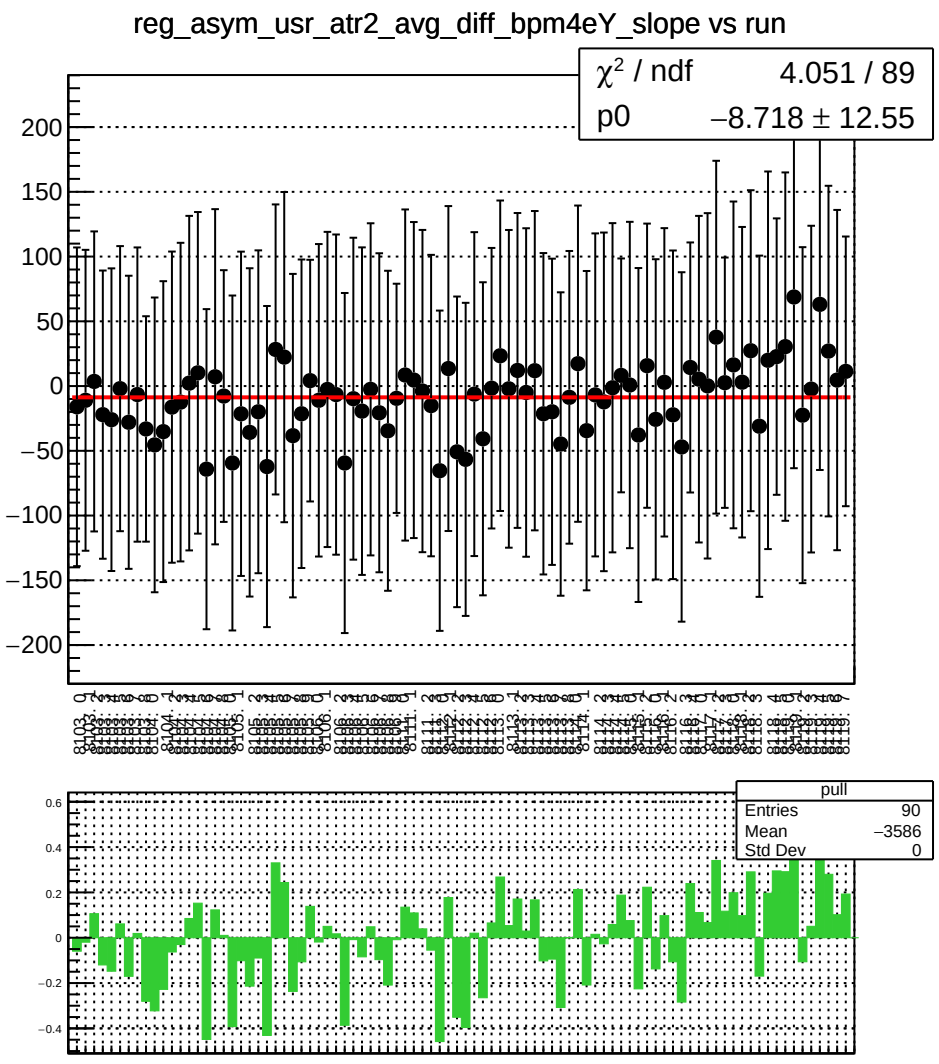

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.041 / 89
p0 −242.2 ± 7.805
pull
Entries 90
Mean −1986
Std Dev 0
pull1D
Entries 90
Mean −0.0008062
Std Dev 0.2119

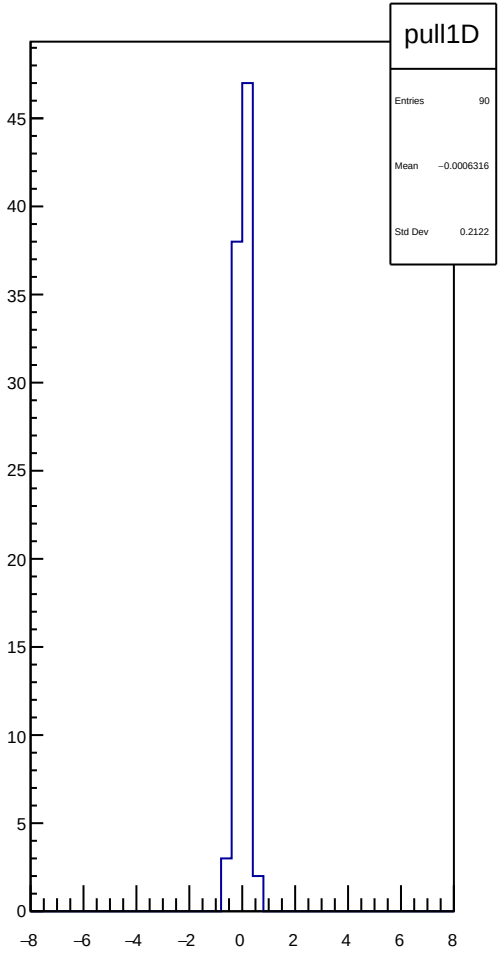

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.256 / 89
p0 68.01 ± 11.74
pull
Entries 90
Mean 1.259e+04
Std Dev 0

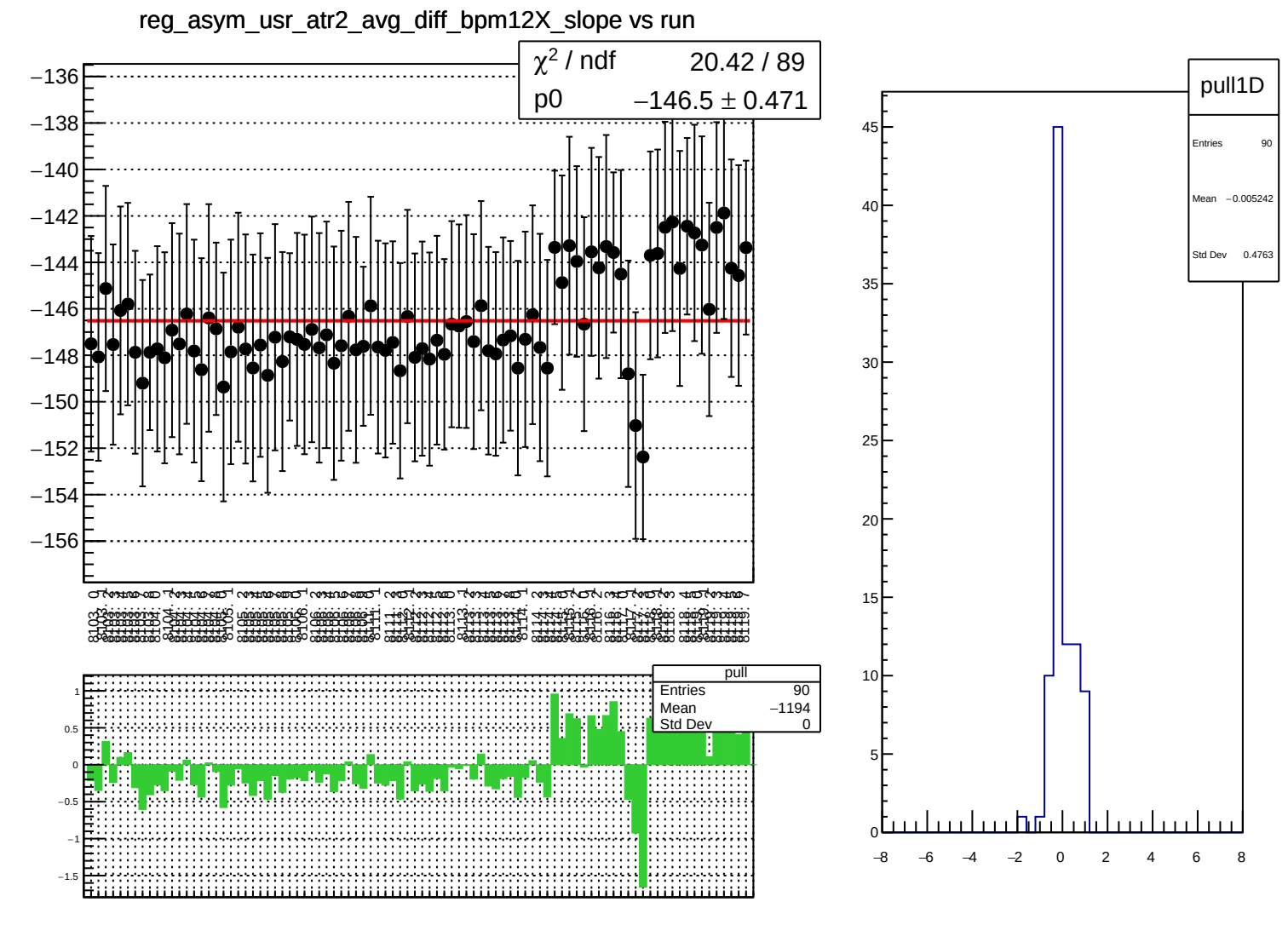

pull1D
Entries 90
Mean −0.0002012
Std Dev 0.2175

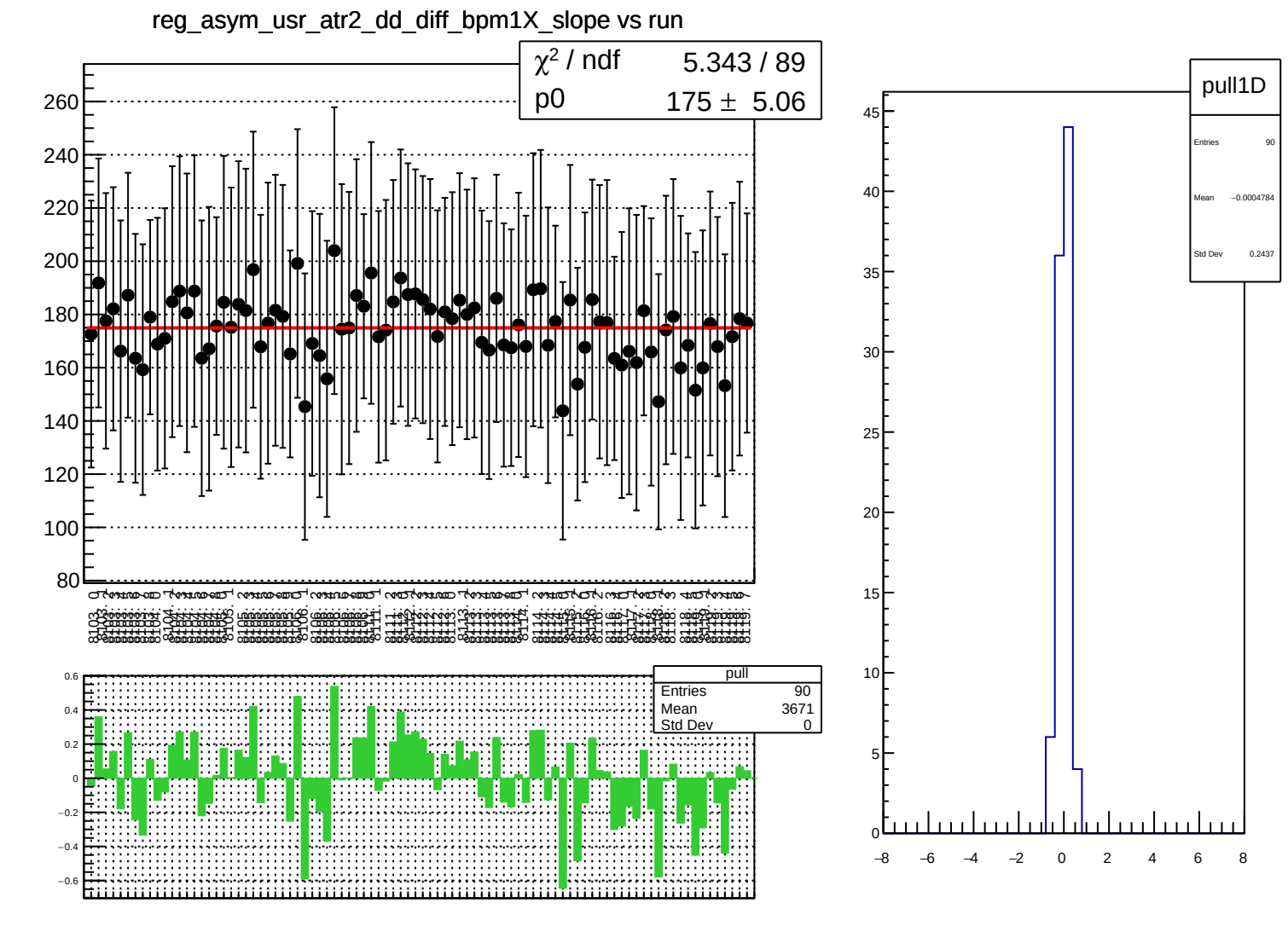

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.176 / 89
p0 293.5 ± 7.422
400
350
300
250
200
pull
Entries 90
Mean −1933
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

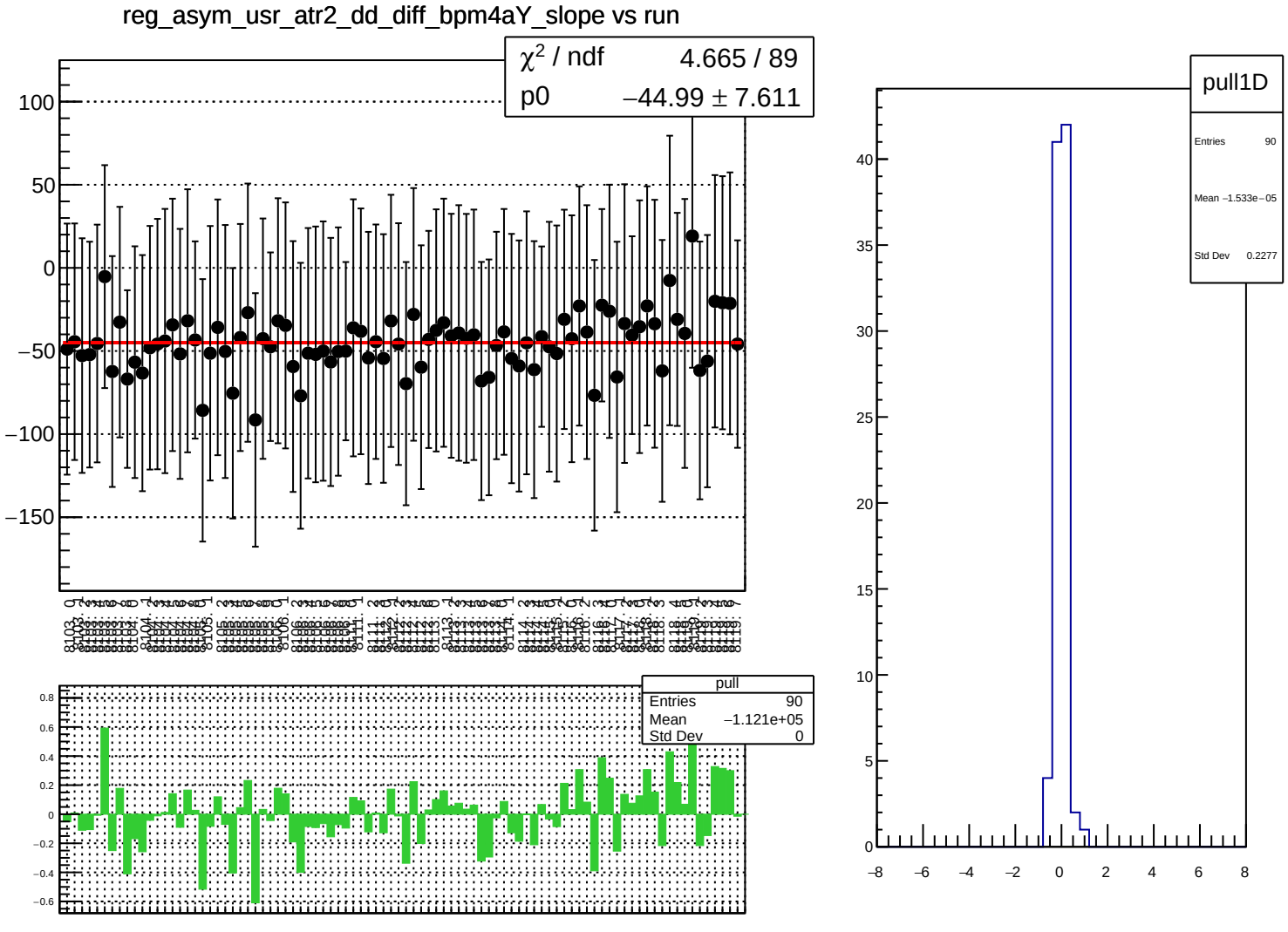

pull1D
Entries 90
Mean 0.0009711
Std Dev 0.2154
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

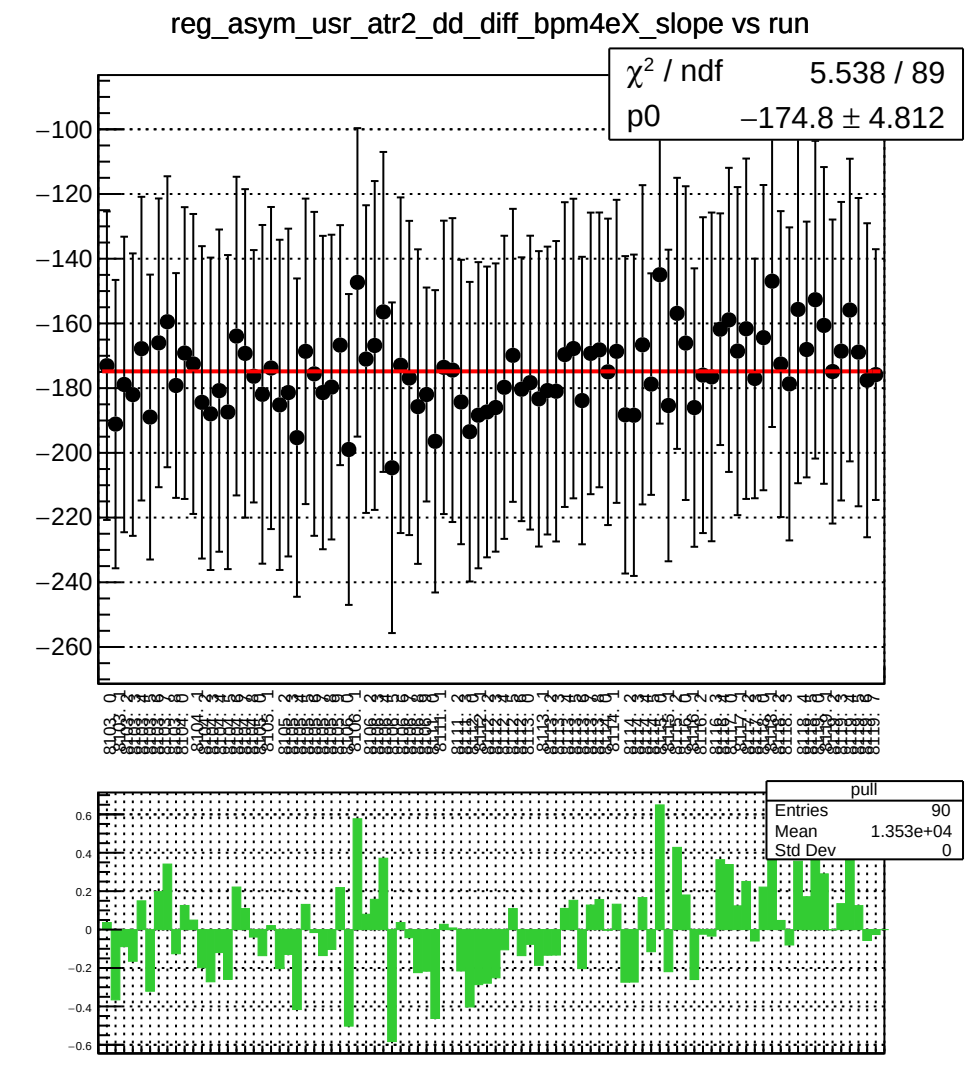

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.051 / 89
p0 −8.718 ± 12.55
pull
Entries 90
Mean −3586
Std Dev 0

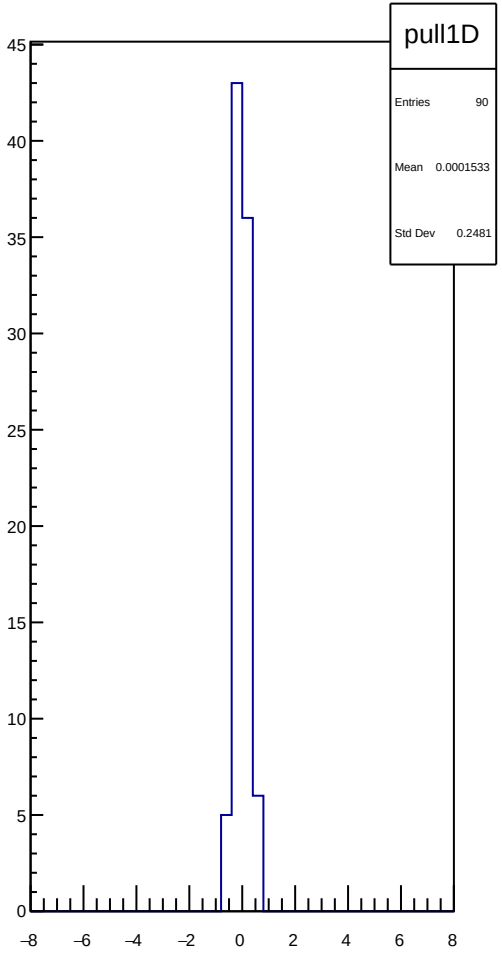

pull1D
Entries 90
Mean −0.0006316
Std Dev 0.2122

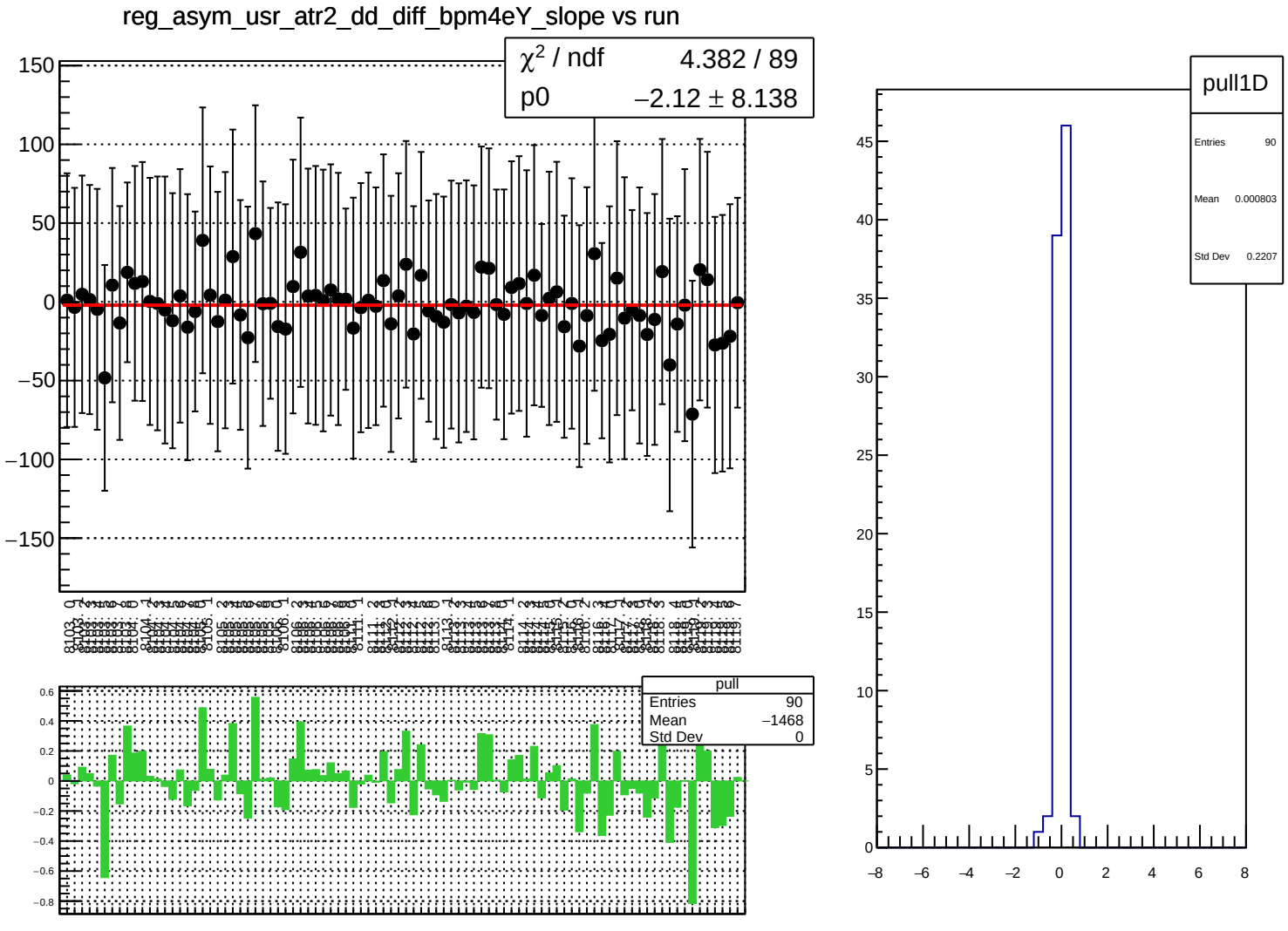

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 20.42 / 89
p0 −146.5 ± 0.471
pull
Entries 90
Mean −1194
Std Dev 0
pull1D
Entries 90
Mean −0.005242
Std Dev 0.4763

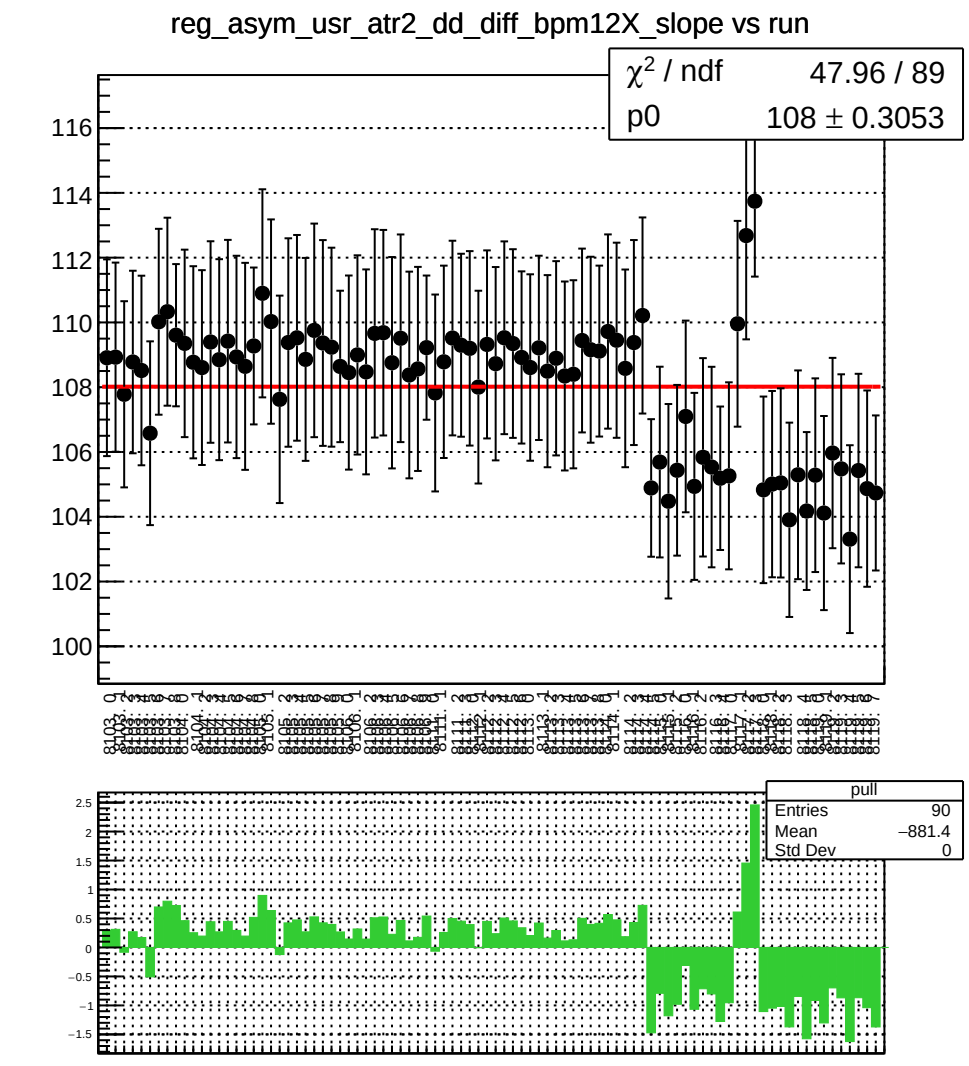

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.343 / 89
p0 175 ± 5.06
pull
Entries 90
Mean 3671
Std Dev 0
pull1D
Entries 90
Mean −0.0004784
Std Dev 0.2437

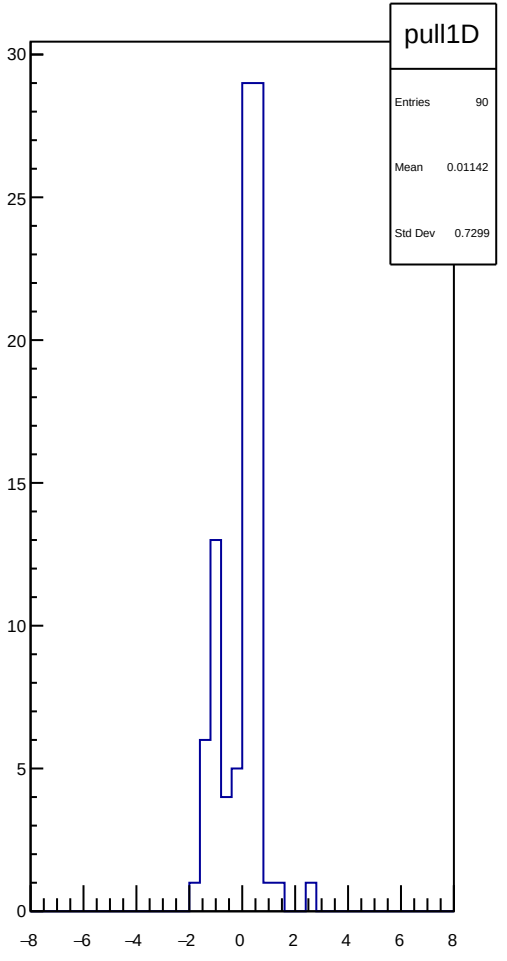

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.665 / 89
p0 −44.99 ± 7.611
100
50
0
−50
−100
−150
pull
Entries 90
Mean −1.121e+05
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 90
Mean −1.533e−05
Std Dev 0.2277
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

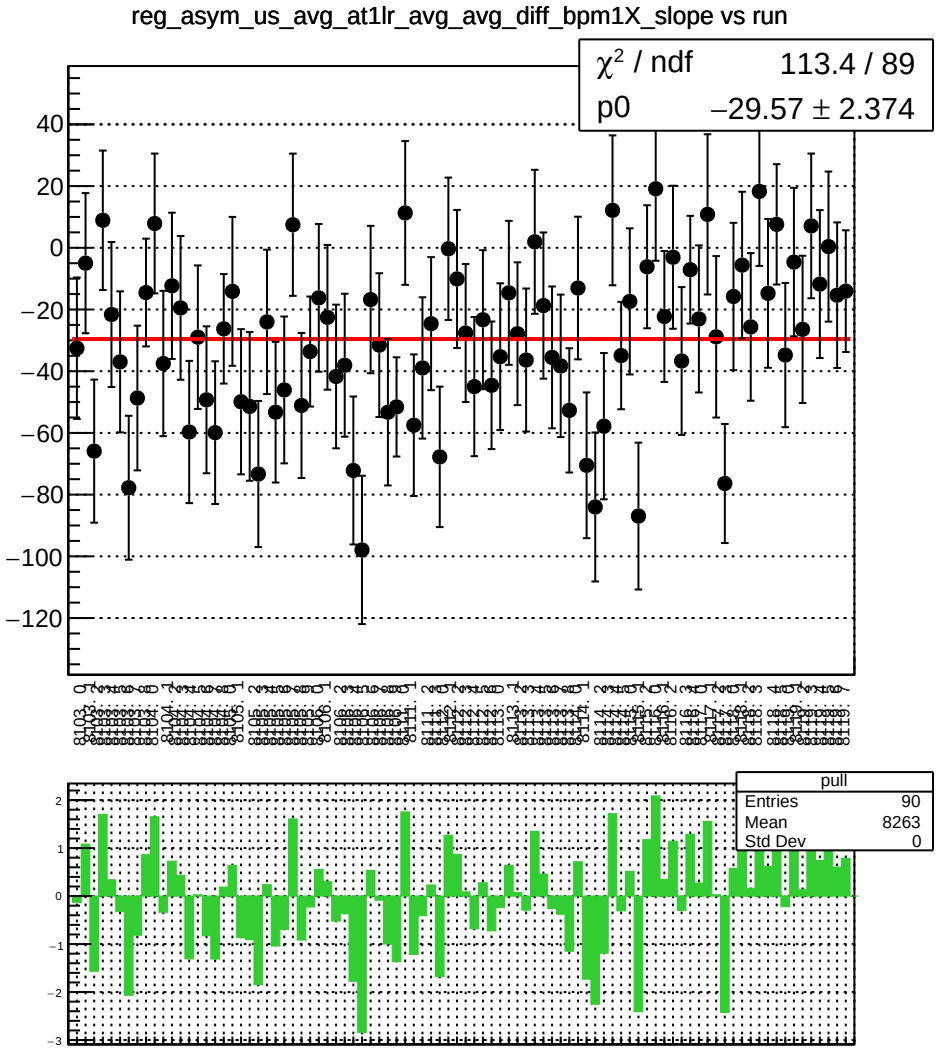

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.538 / 89
p0 −174.8 ± 4.812
pull
Entries 90
Mean 1.353e+04
Std Dev 0

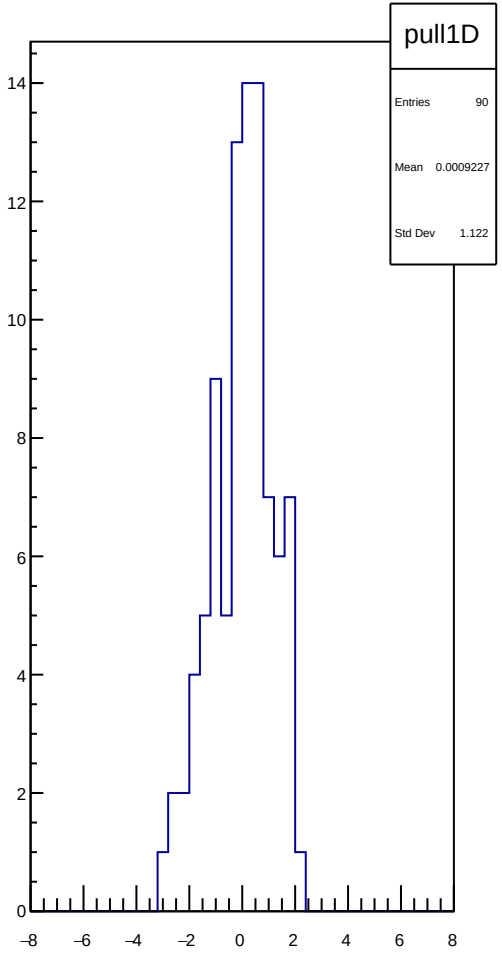

pull1D
Entries 90
Mean 0.0001533
Std Dev 0.2481

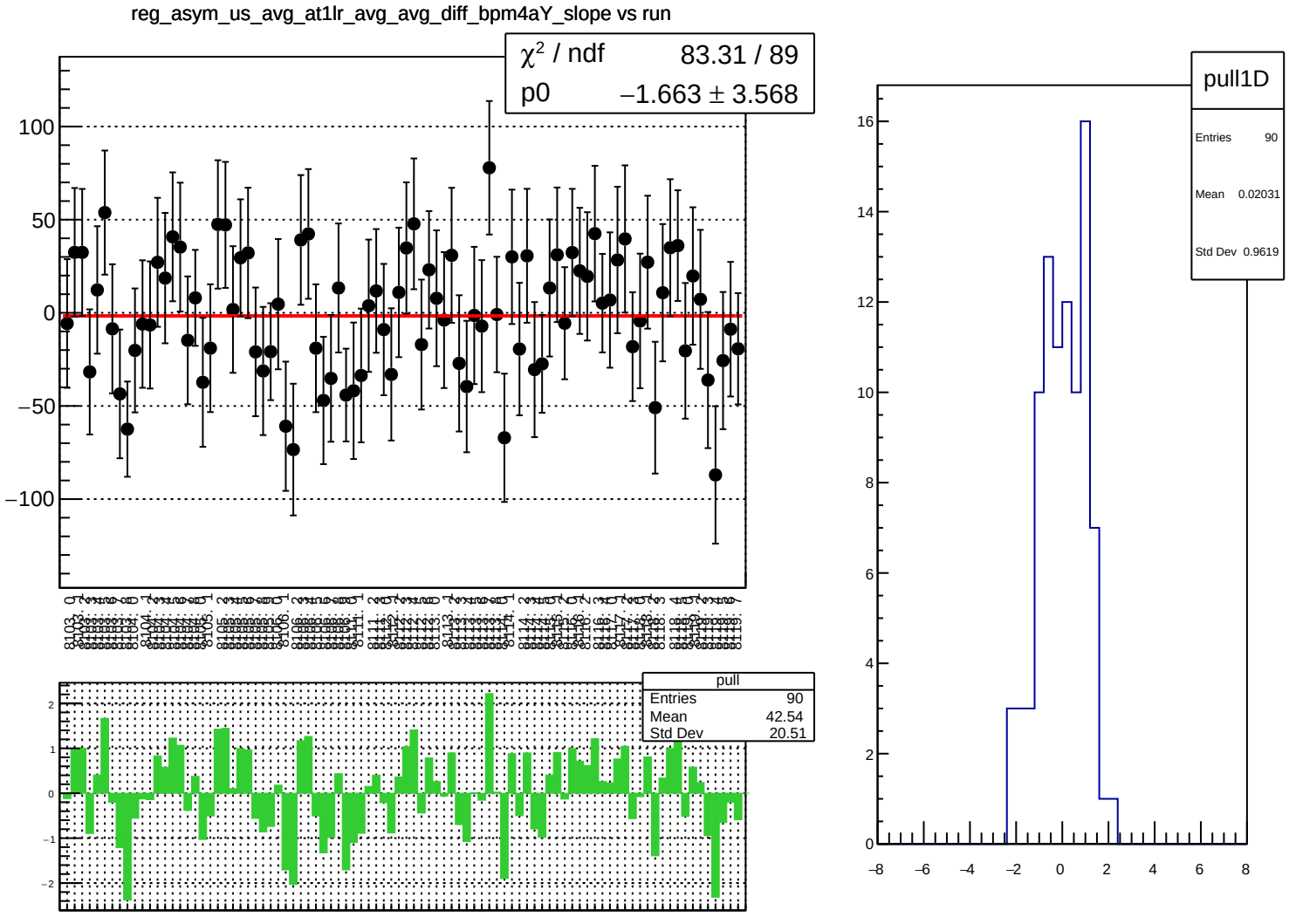

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.382 / 89
p0 −2.12 ± 8.138
150
100
50
0
−50
−100
−150
pull
Entries 90
Mean −1468
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 90
Mean 0.000803
Std Dev 0.2207
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

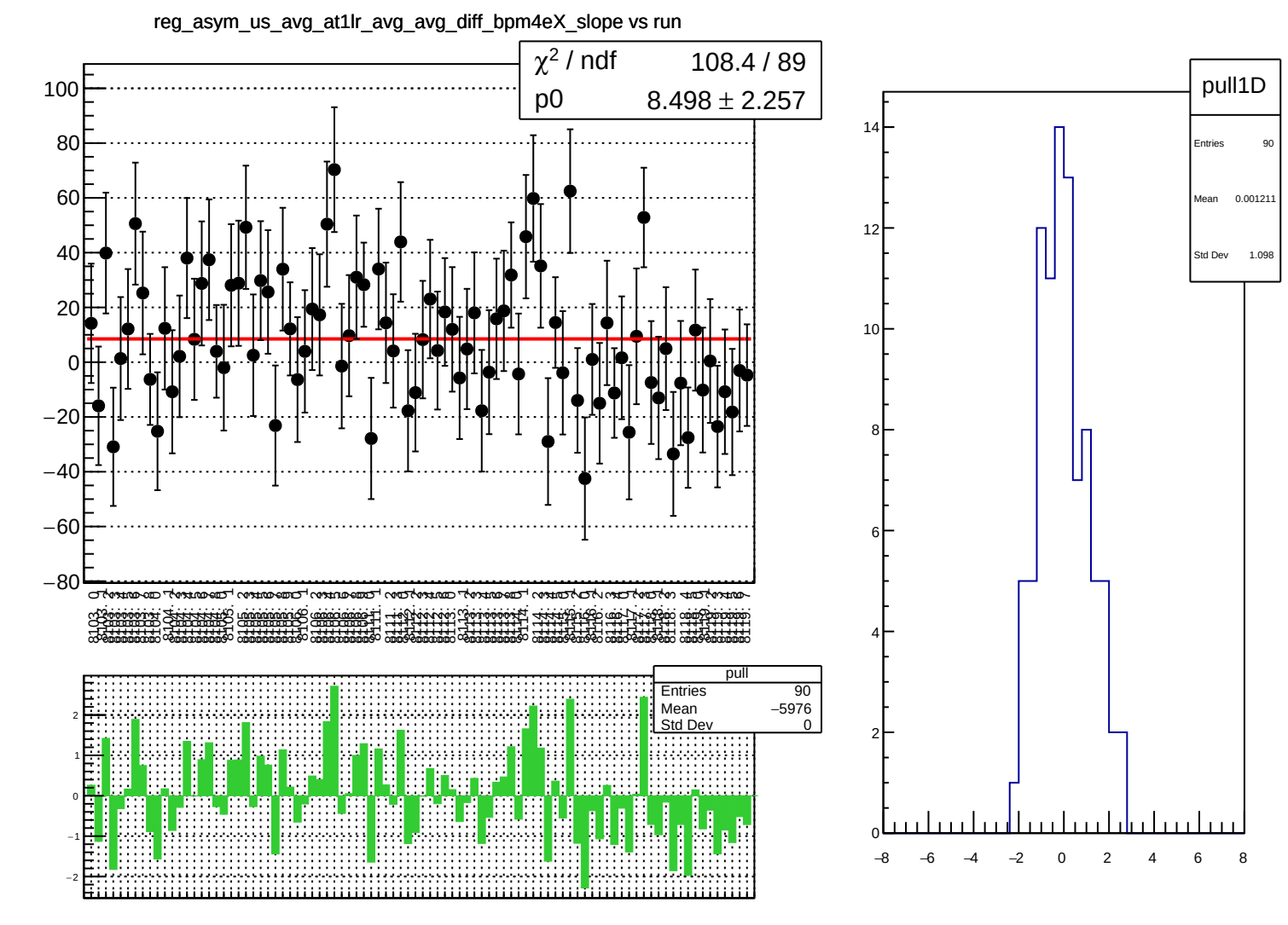

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 47.96 / 89
p0 108 ± 0.3053
116
114
112
110
108
106
104
102
100
pull
Entries 90
Mean −881.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

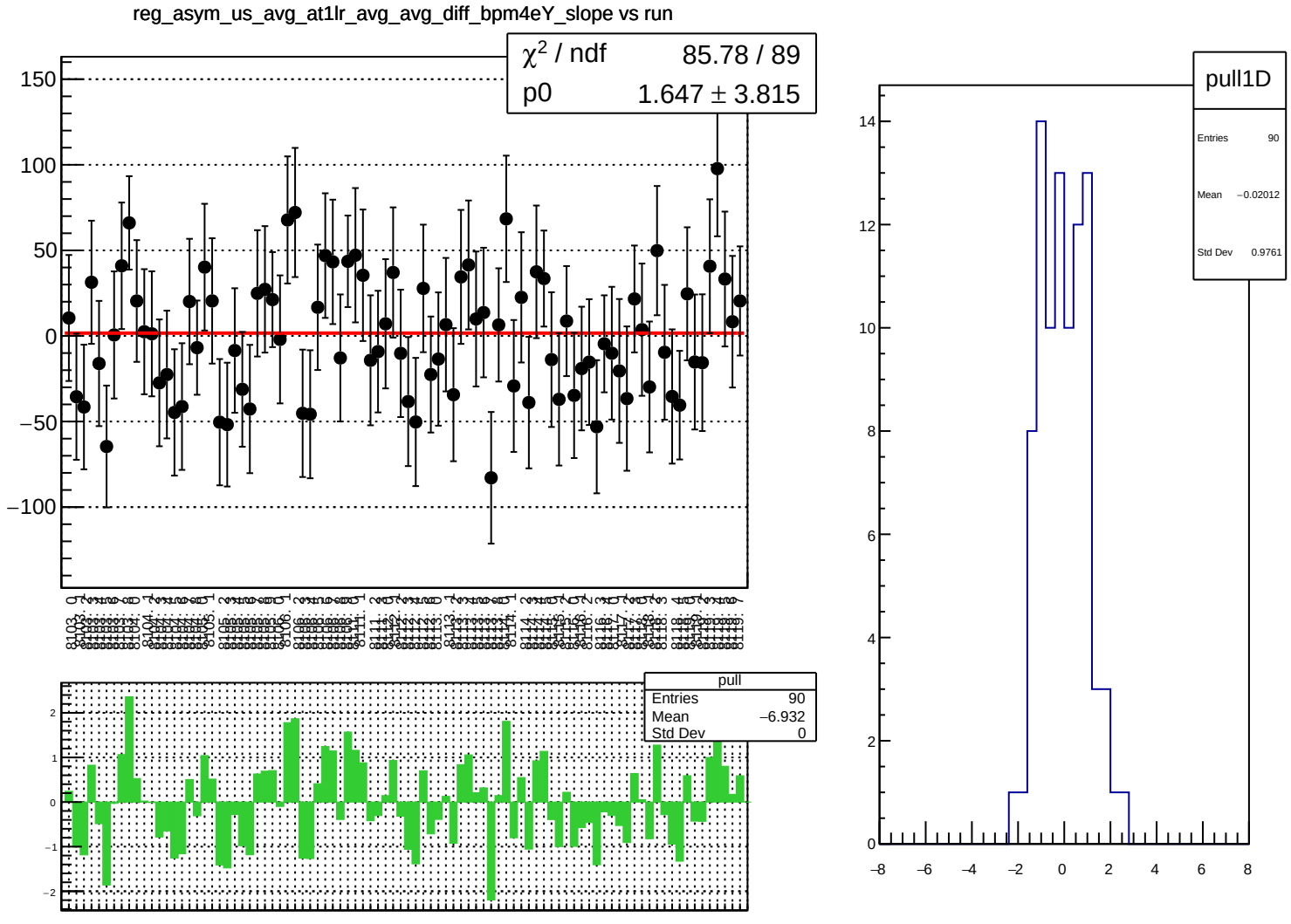

pull1D
Entries 90
Mean 0.01142
Std Dev 0.7299
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

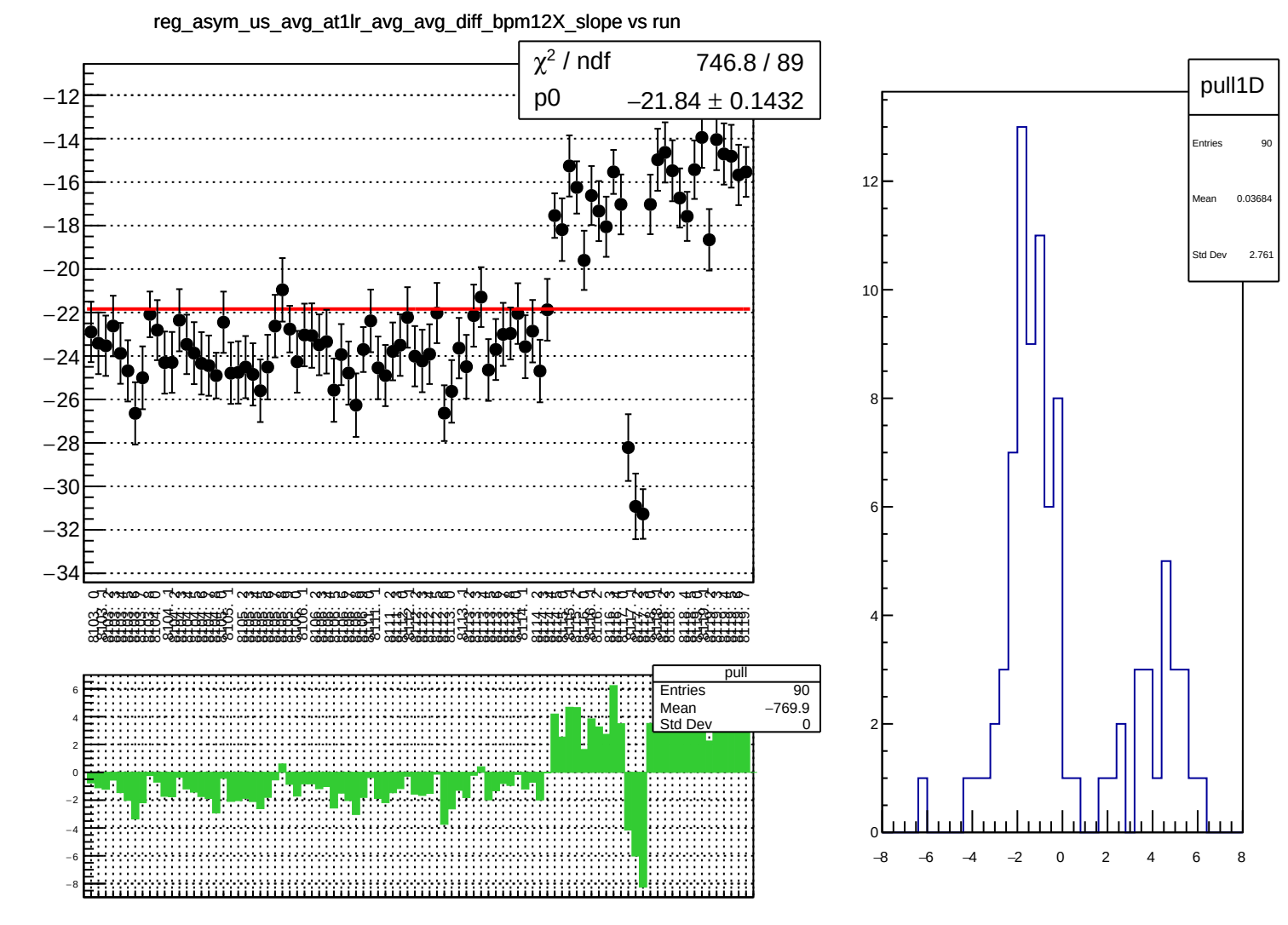

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 113.4 / 89
p0 −29.57 ± 2.374
pull
Entries 90
Mean 8263
Std Dev 0

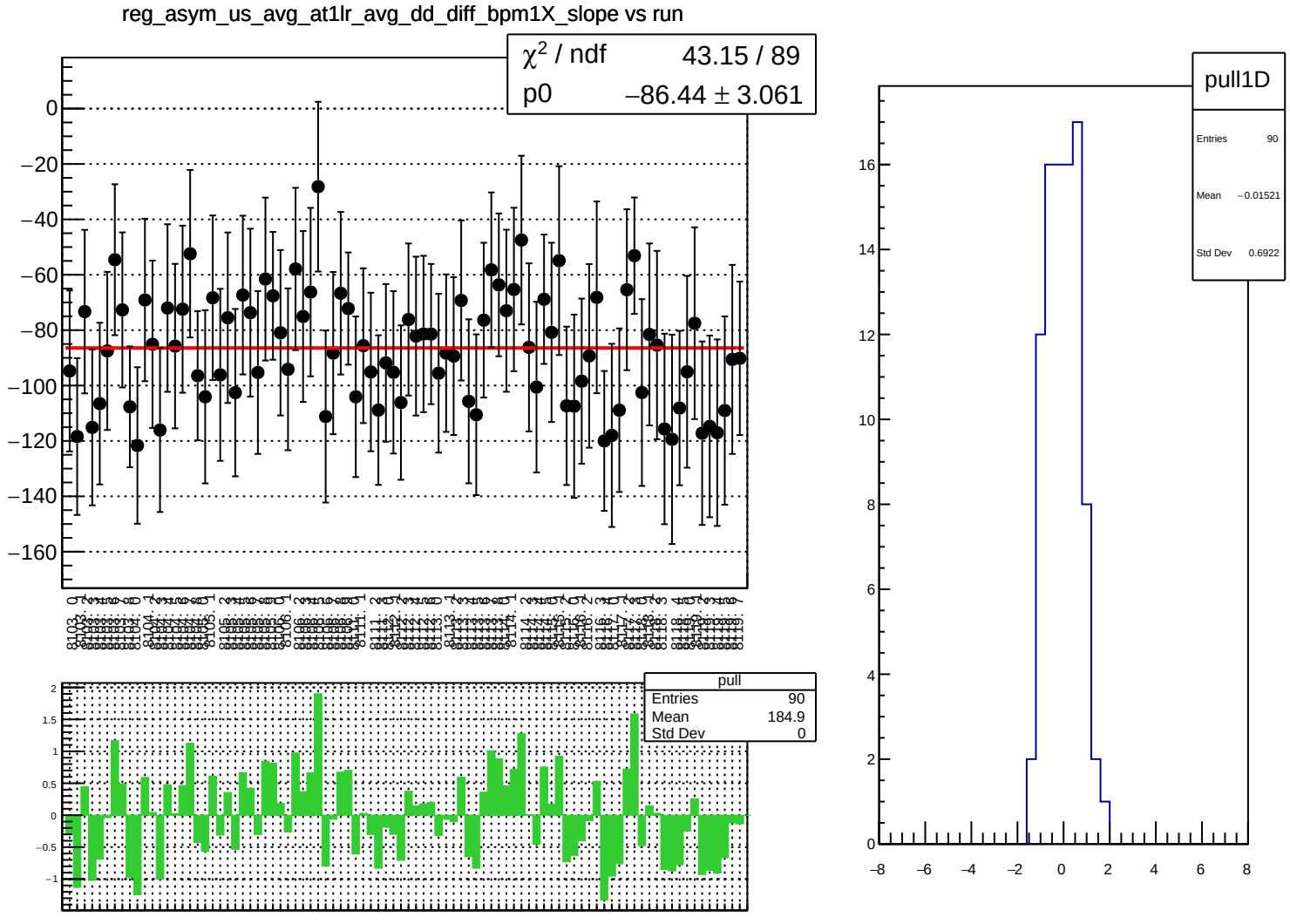

pull1D
Entries 90
Mean 0.0009227
Std Dev 1.122

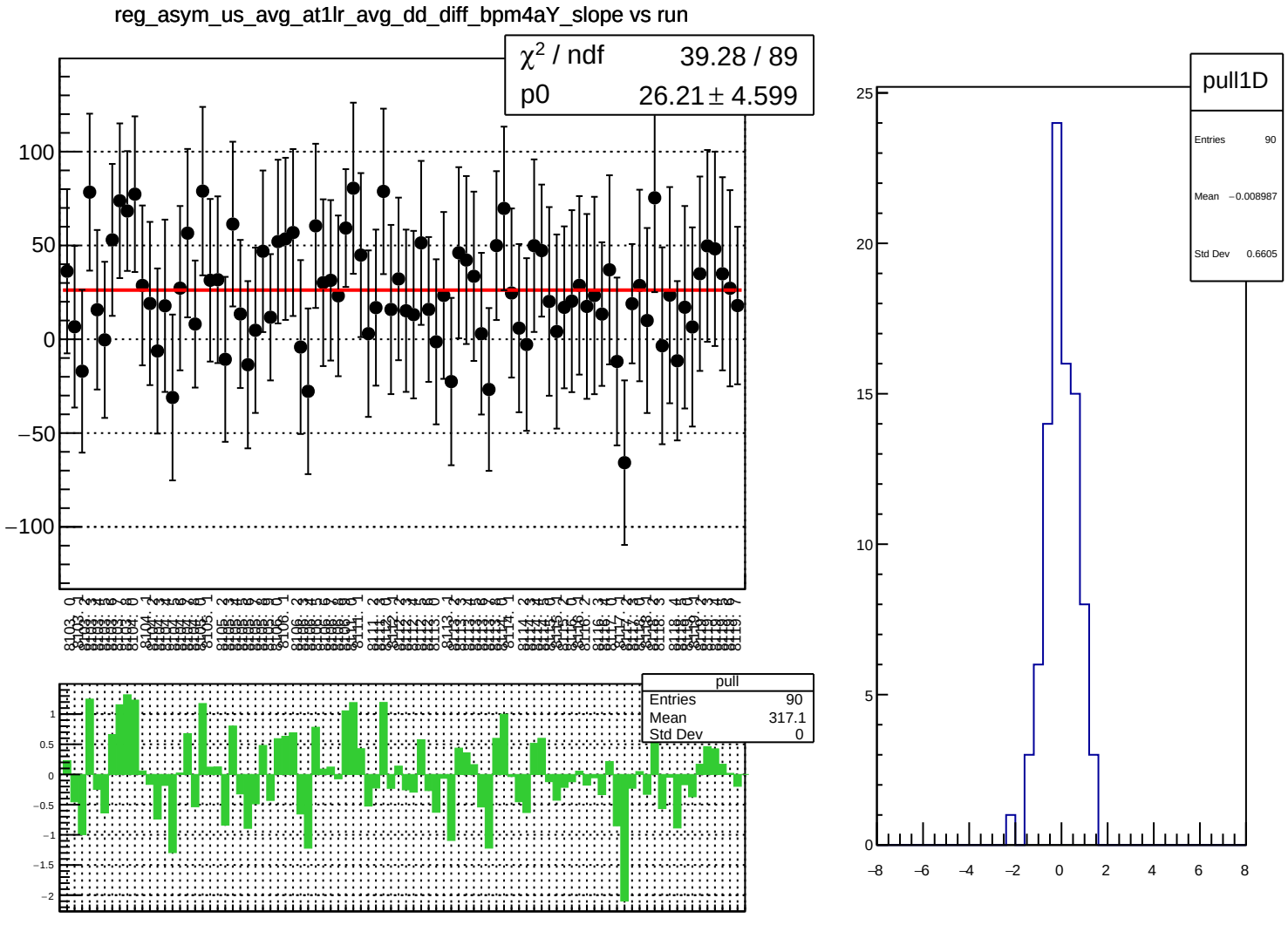

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.31 / 89
p0 −1.663 ± 3.568
pull
Entries 90
Mean 42.54
Std Dev 20.51
pull1D
Entries 90
Mean 0.02031
Std Dev 0.9619

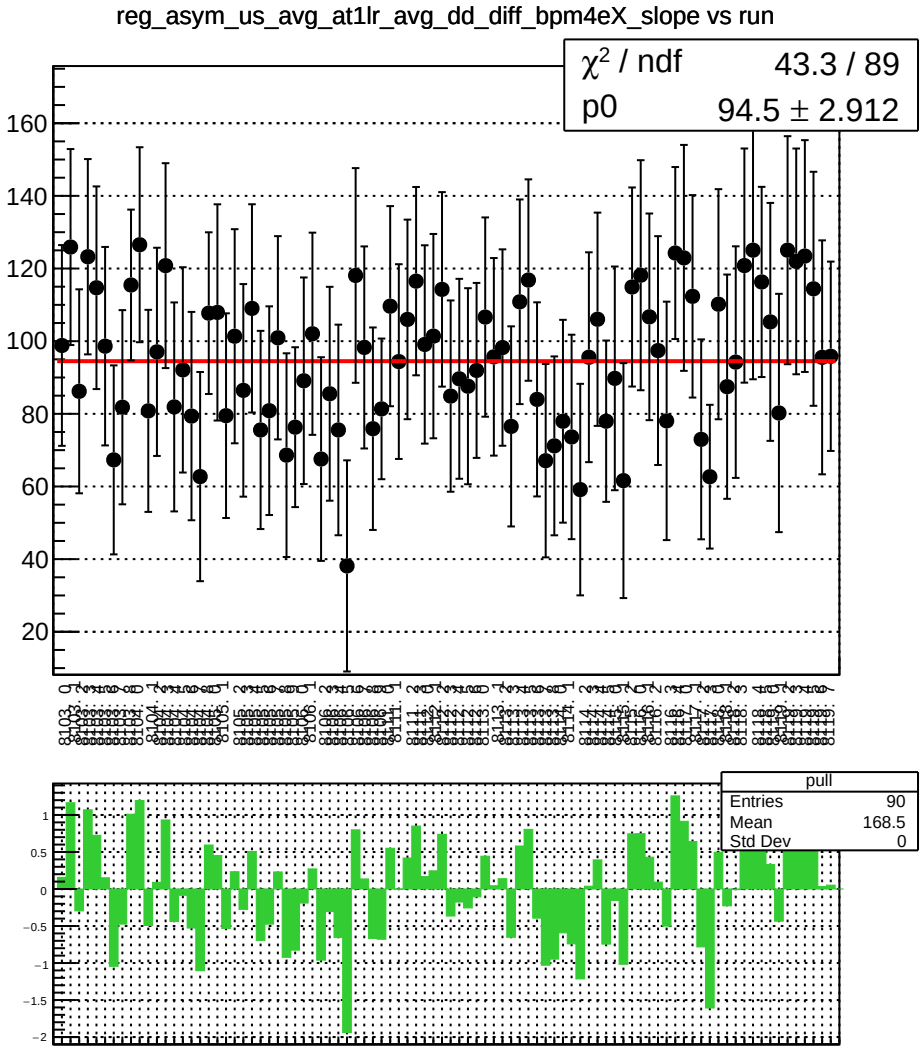

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 108.4 / 89
p0 8.498 ± 2.257
pull
Entries 90
Mean −5976
Std Dev 0
pull1D
Entries 90
Mean 0.001211
Std Dev 1.098

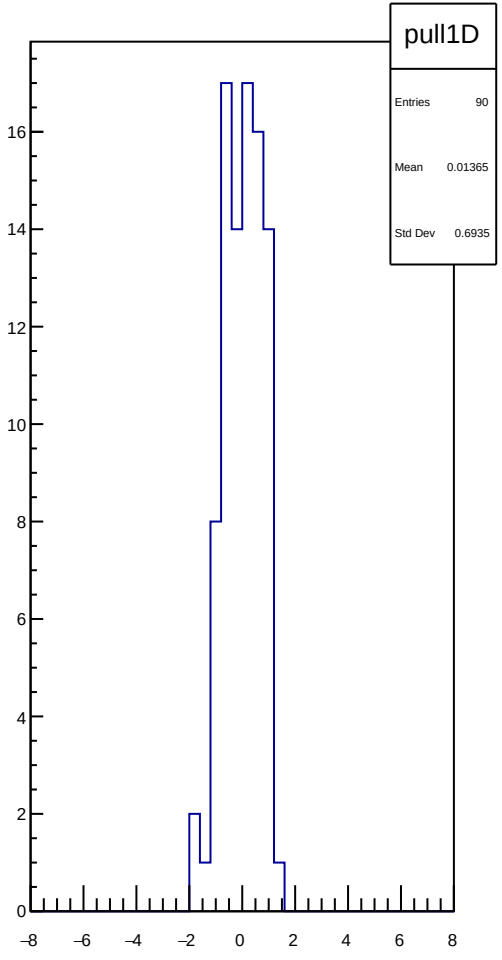

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.78 / 89
p0 1.647 ± 3.815
150
100
50
0
−50
−100
pull
Entries 90
Mean −6.932
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 90
Mean −0.02012
Std Dev 0.9761
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

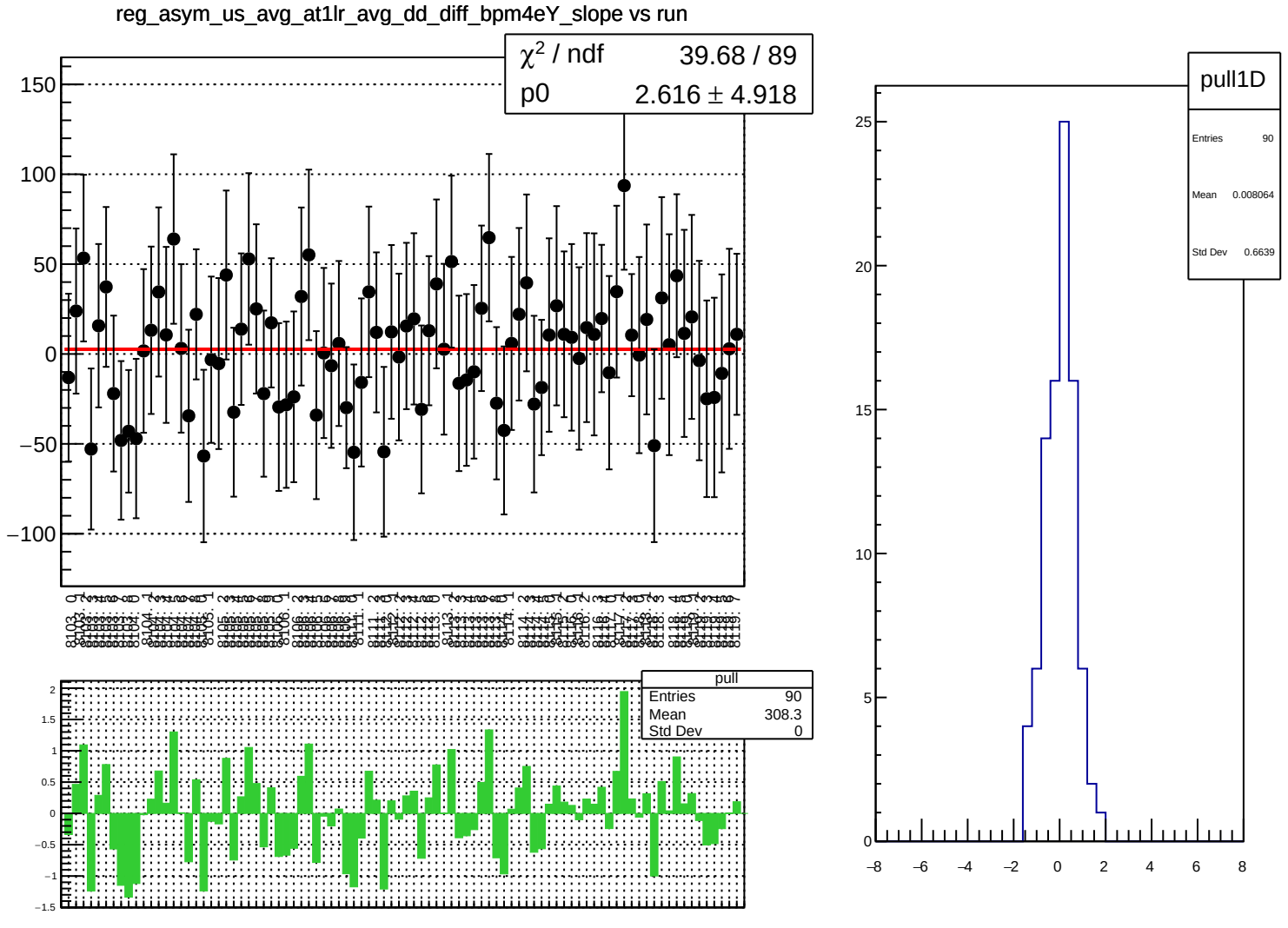

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 746.8 / 89
p0 −21.84 ± 0.1432
pull
Entries 90
Mean −769.9
Std Dev 0
pull1D
Entries 90
Mean 0.03684
Std Dev 2.761

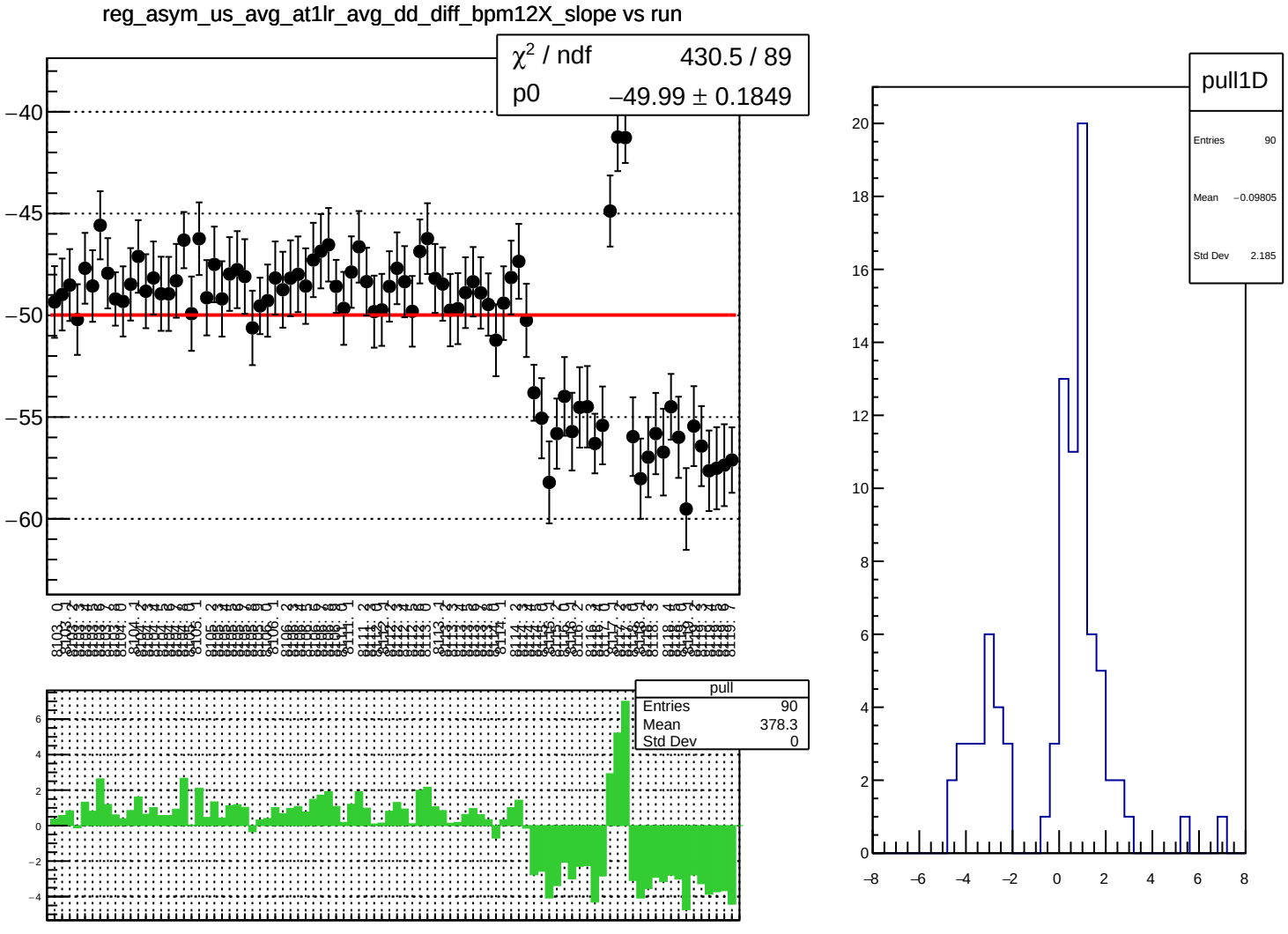

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 43.15 / 89
p0 −86.44 ± 3.061
pull
Entries 90
Mean 184.9
Std Dev 0
pull1D
Entries 90
Mean −0.01521
Std Dev 0.6922

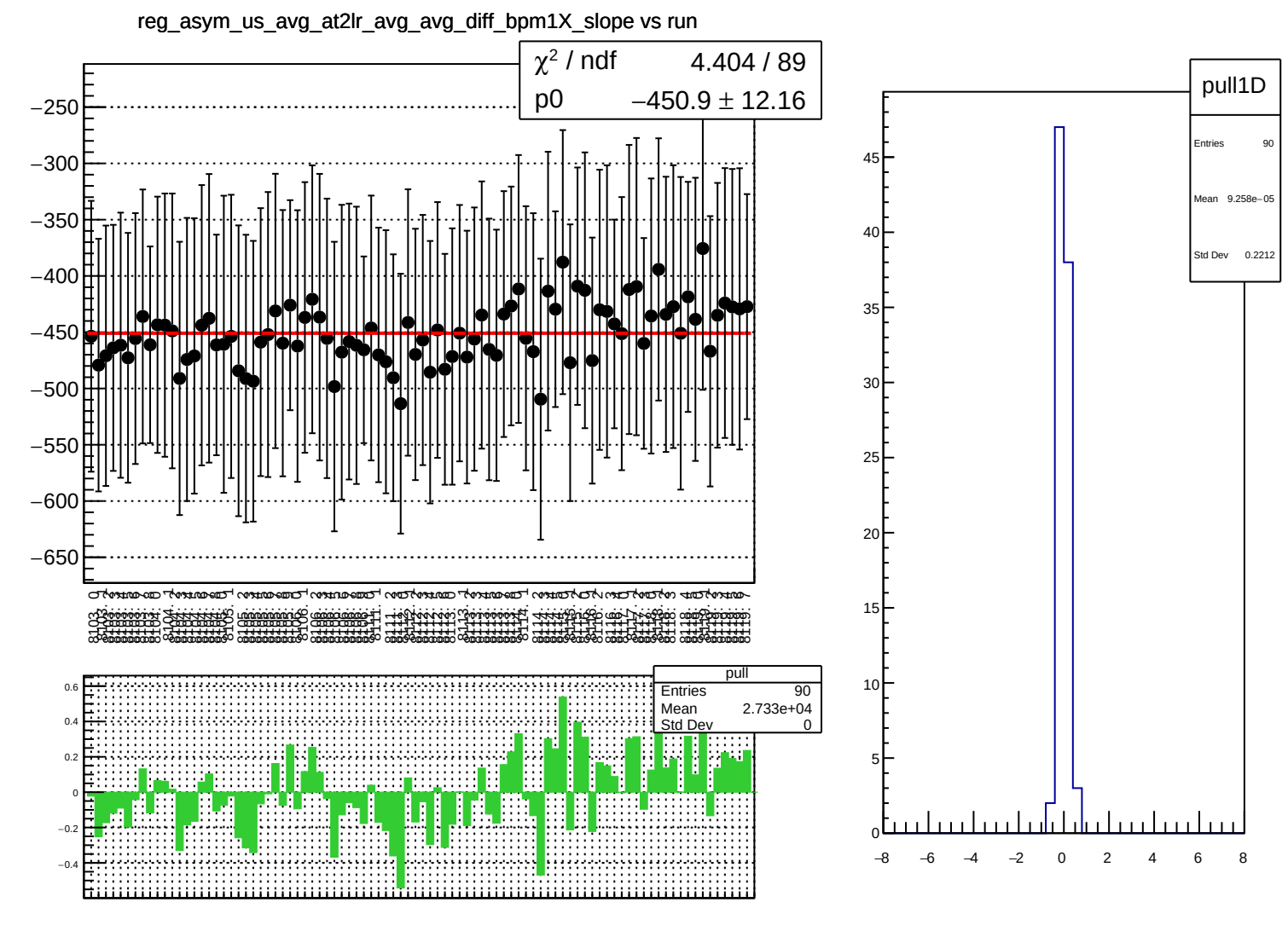

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.28 / 89
p0 26.21 ± 4.599
100
50
0
−50
−100
pull
Entries 90
Mean 317.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 90
Mean −0.008987
Std Dev 0.6605
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

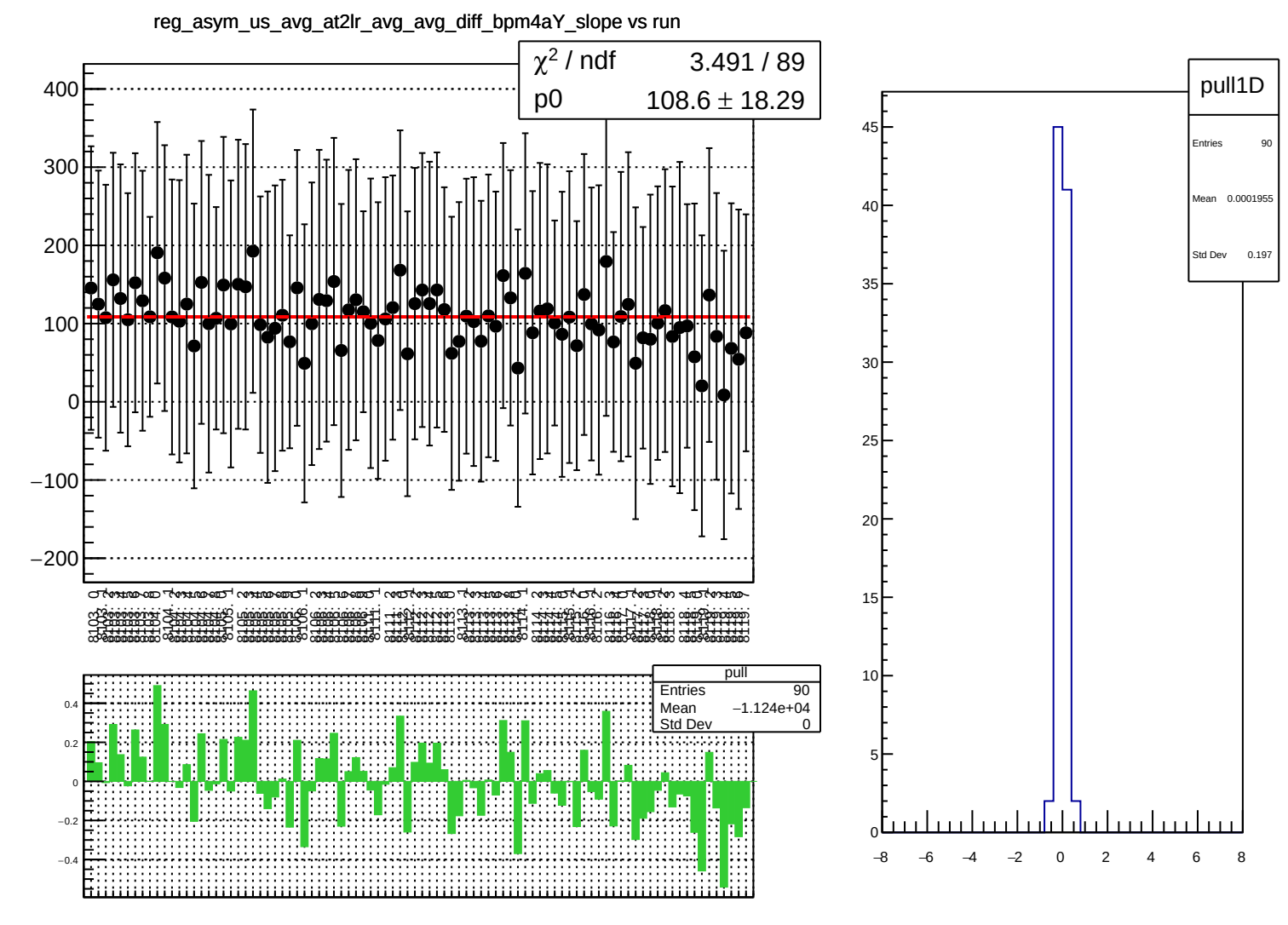

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.3 / 89
p0 94.5 ± 2.912
pull
Entries 90
Mean 168.5
Std Dev 0

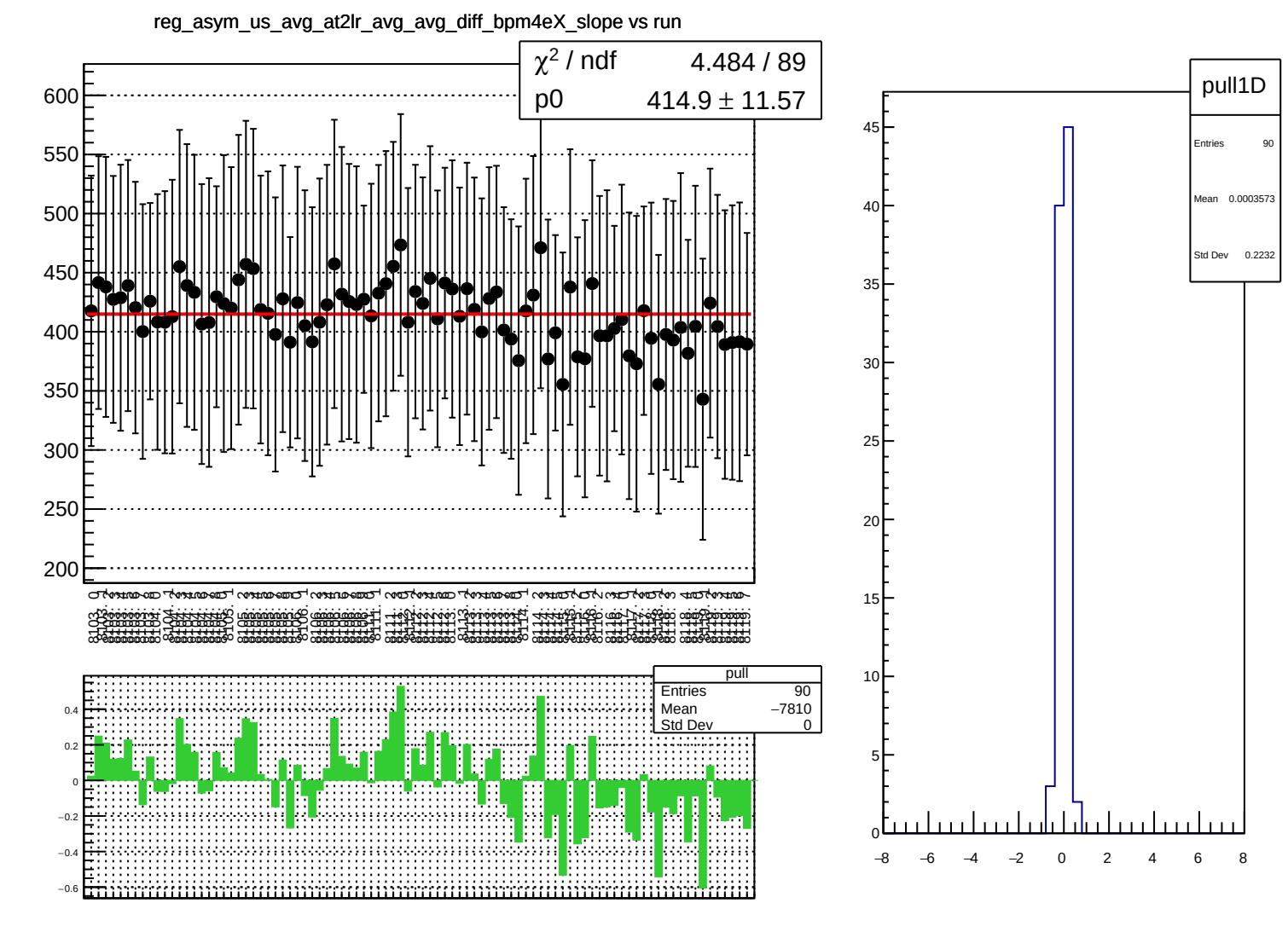

pull1D
Entries 90
Mean 0.01365
Std Dev 0.6935

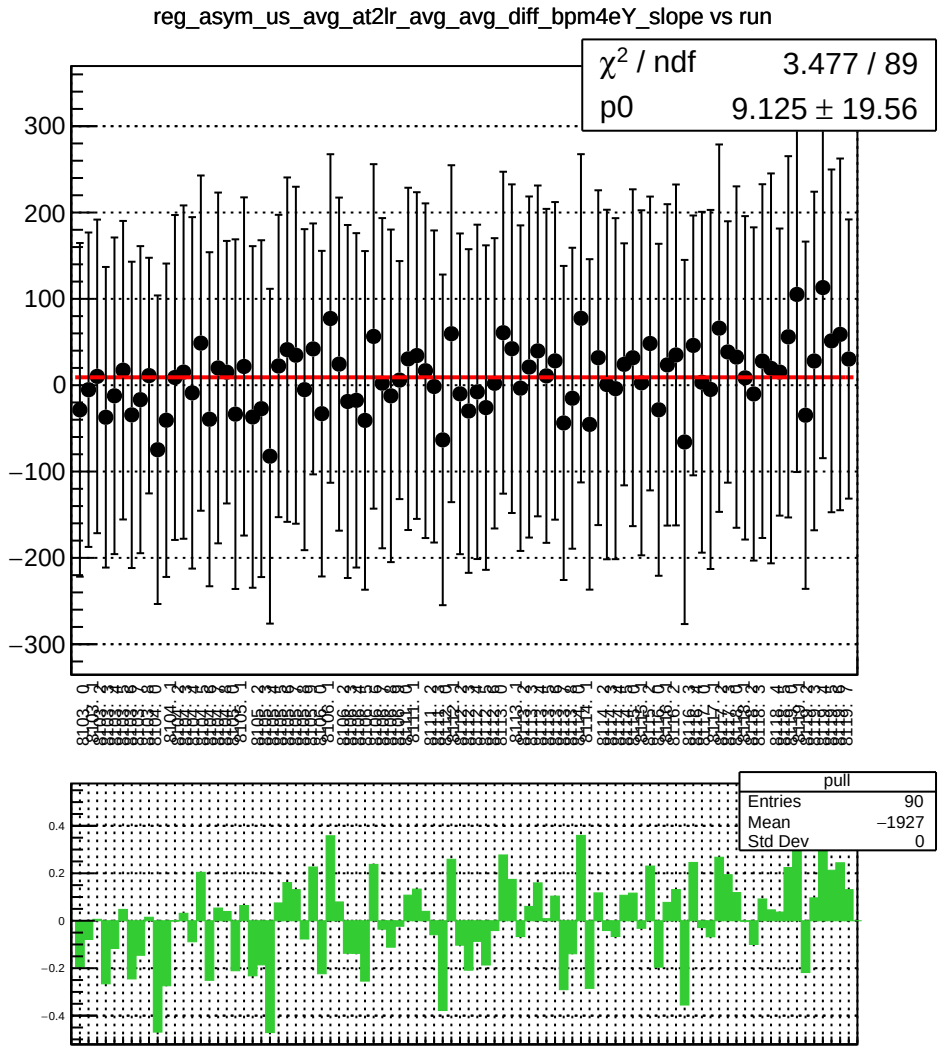

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.68 / 89
p0 2.616 ± 4.918
150
100
50
0
−50
−100
pull
Entries 90
Mean 308.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean 0.008064
Std Dev 0.6639
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

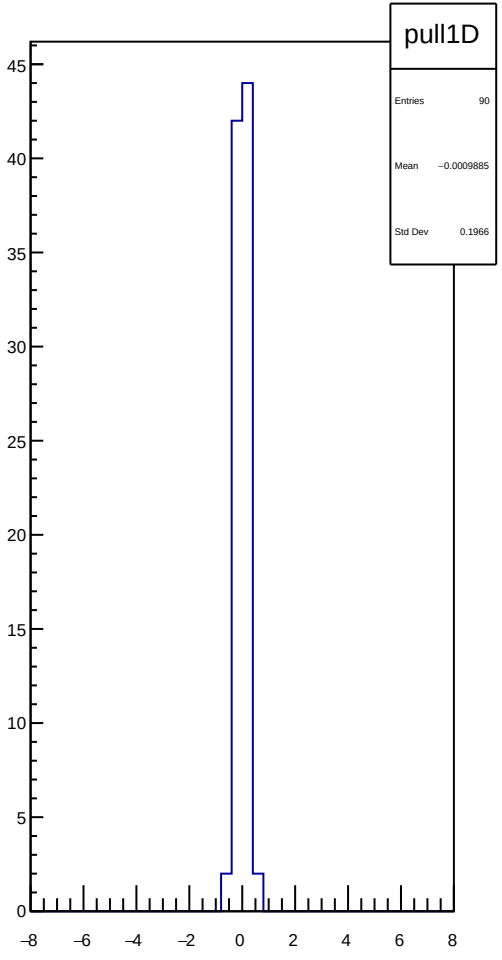

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 430.5 / 89
p0 −49.99 ± 0.1849
−40
−45
−50
−55
−60
pull
Entries 90
Mean 378.3
Std Dev 0
pull1D
Entries 90
Mean −0.09805
Std Dev 2.185

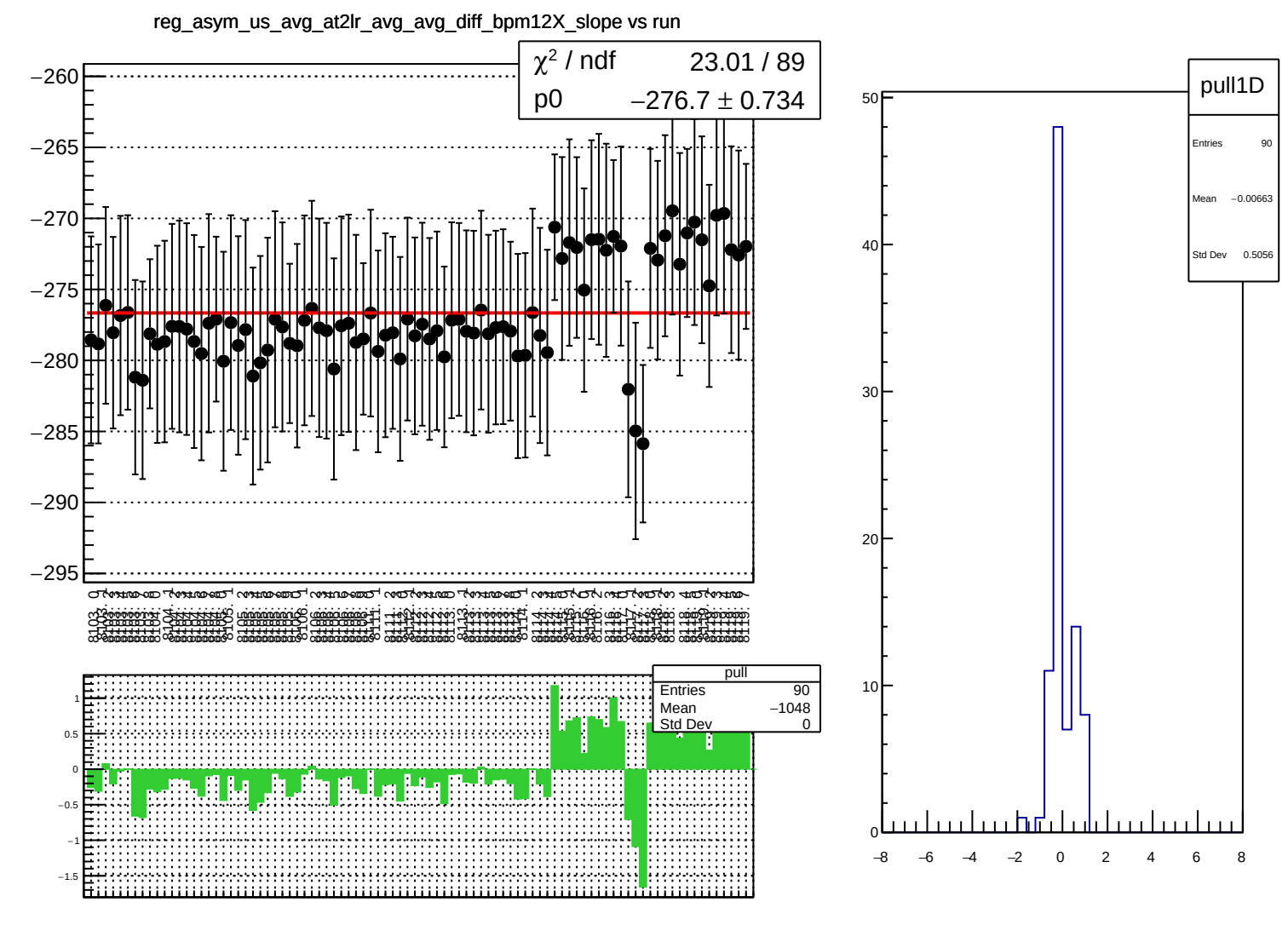

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.404 / 89
p0 −450.9 ± 12.16
−250
−300
−350
−400
−450
−500
−550
−600
−650
pull
Entries 90
Mean 2.733e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 90
Mean 9.258e−05
Std Dev 0.2212
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

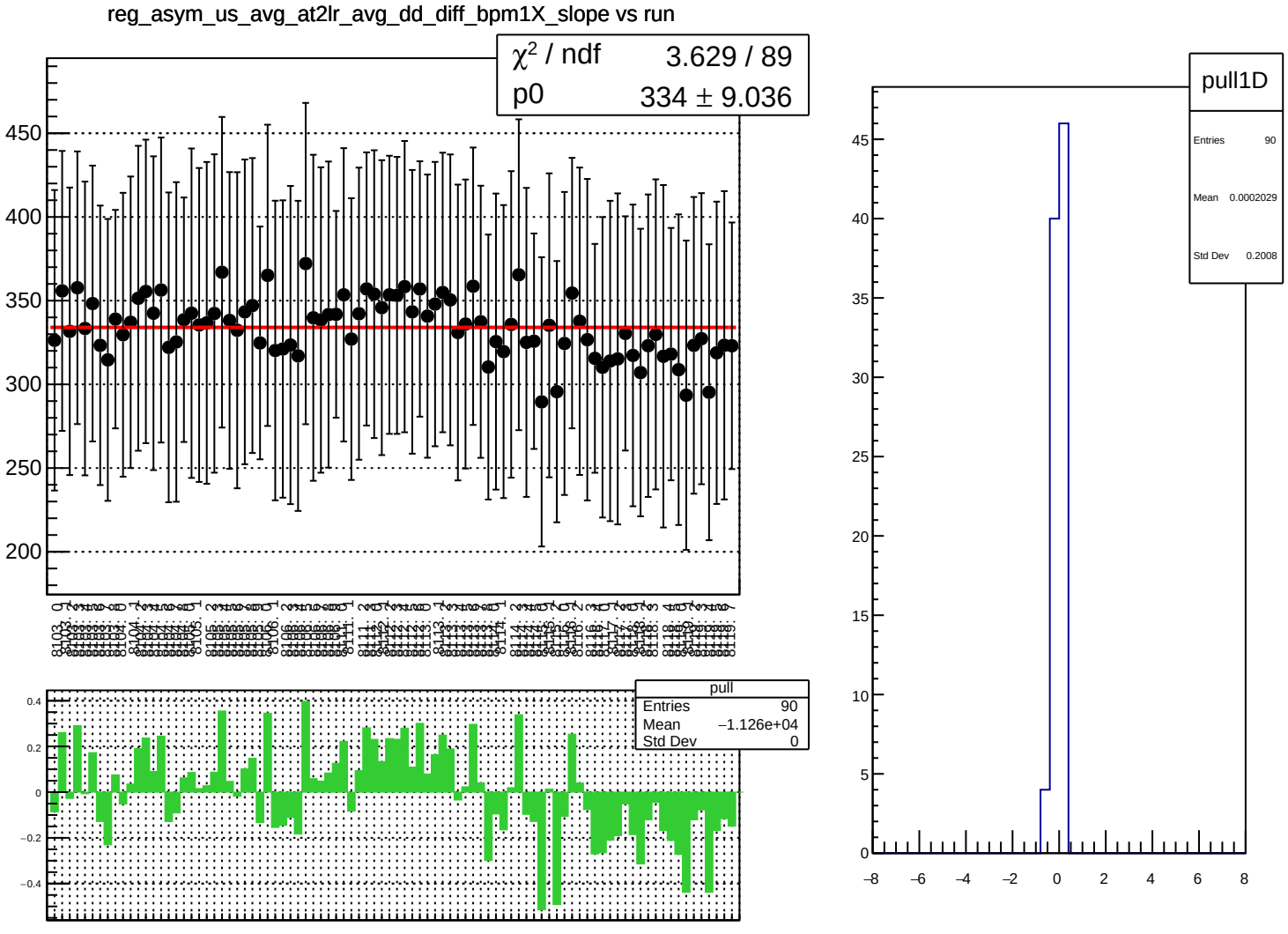

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.491 / 89
p0 108.6 ± 18.29
pull
Entries 90
Mean −1.124e+04
Std Dev 0
pull1D
Entries 90
Mean 0.0001955
Std Dev 0.197

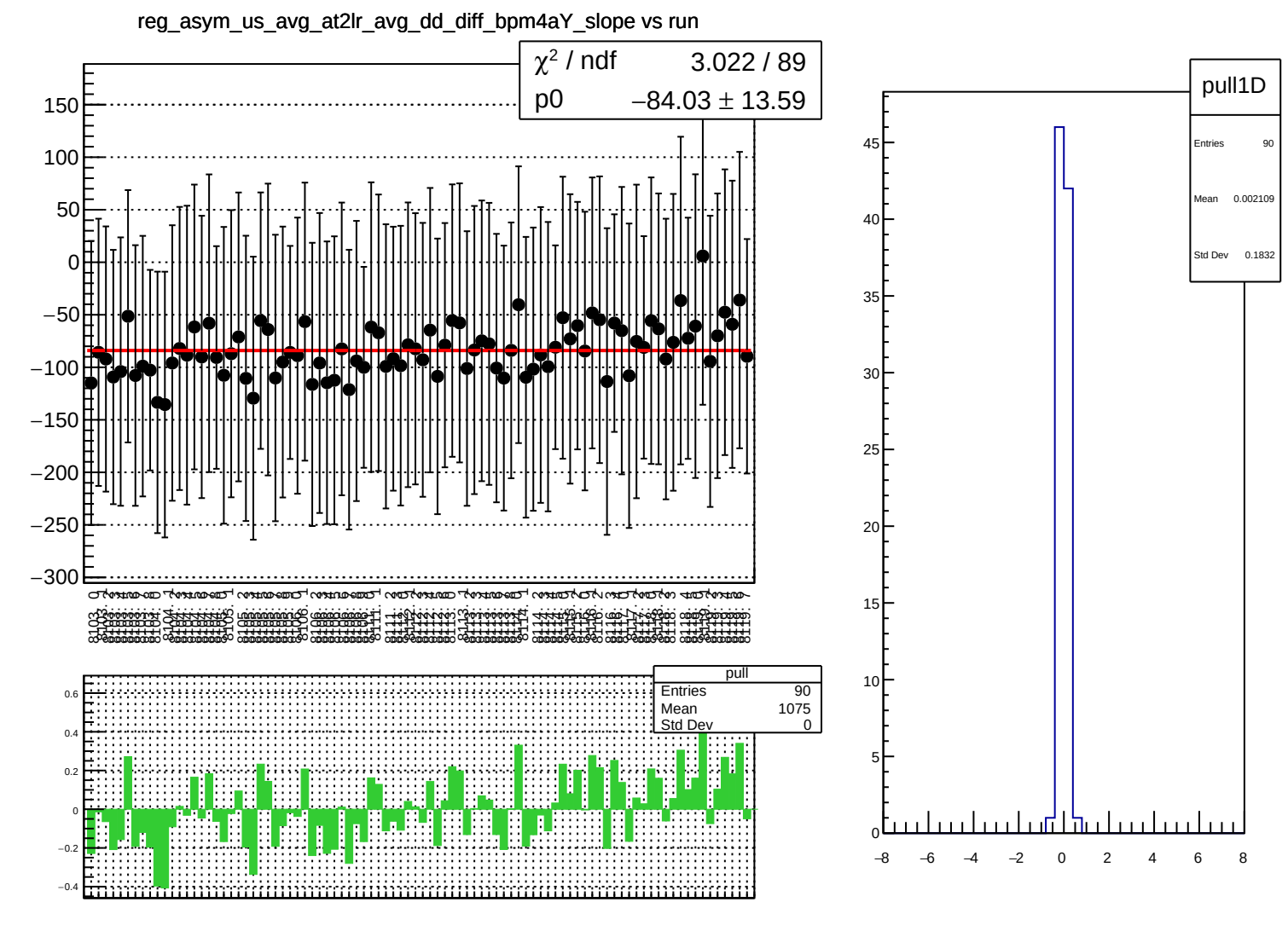

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.484 / 89
p0 414.9 ± 11.57
pull
Entries 90
Mean −7810
Std Dev 0
pull1D
Entries 90
Mean 0.0003573
Std Dev 0.2232

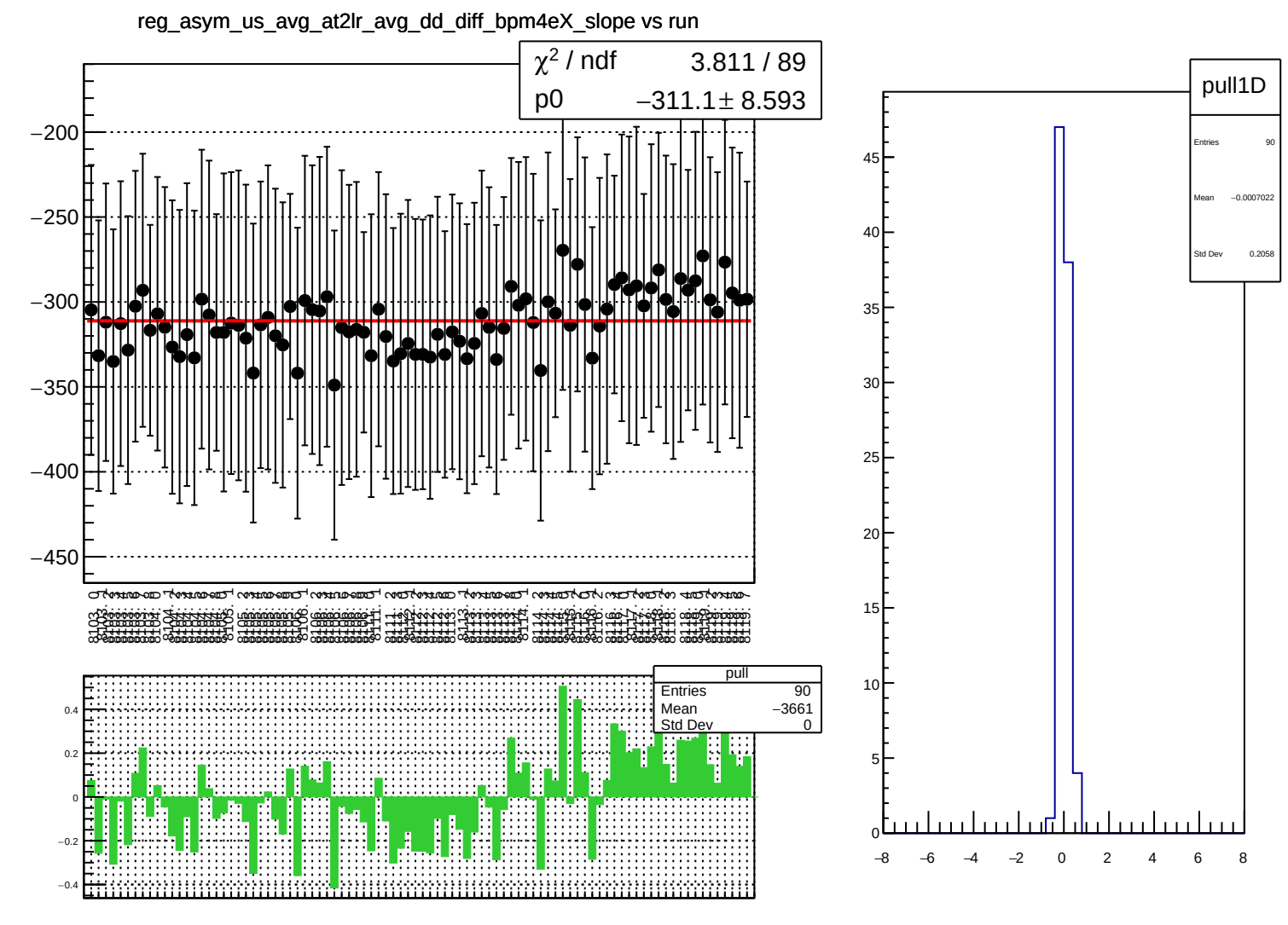

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.477 / 89
p0 9.125 ± 19.56
300
200
100
0
−100
−200
−300
pull
Entries 90
Mean −1927
Std Dev 0
0.4
0.2
0
−0.2
−0.4

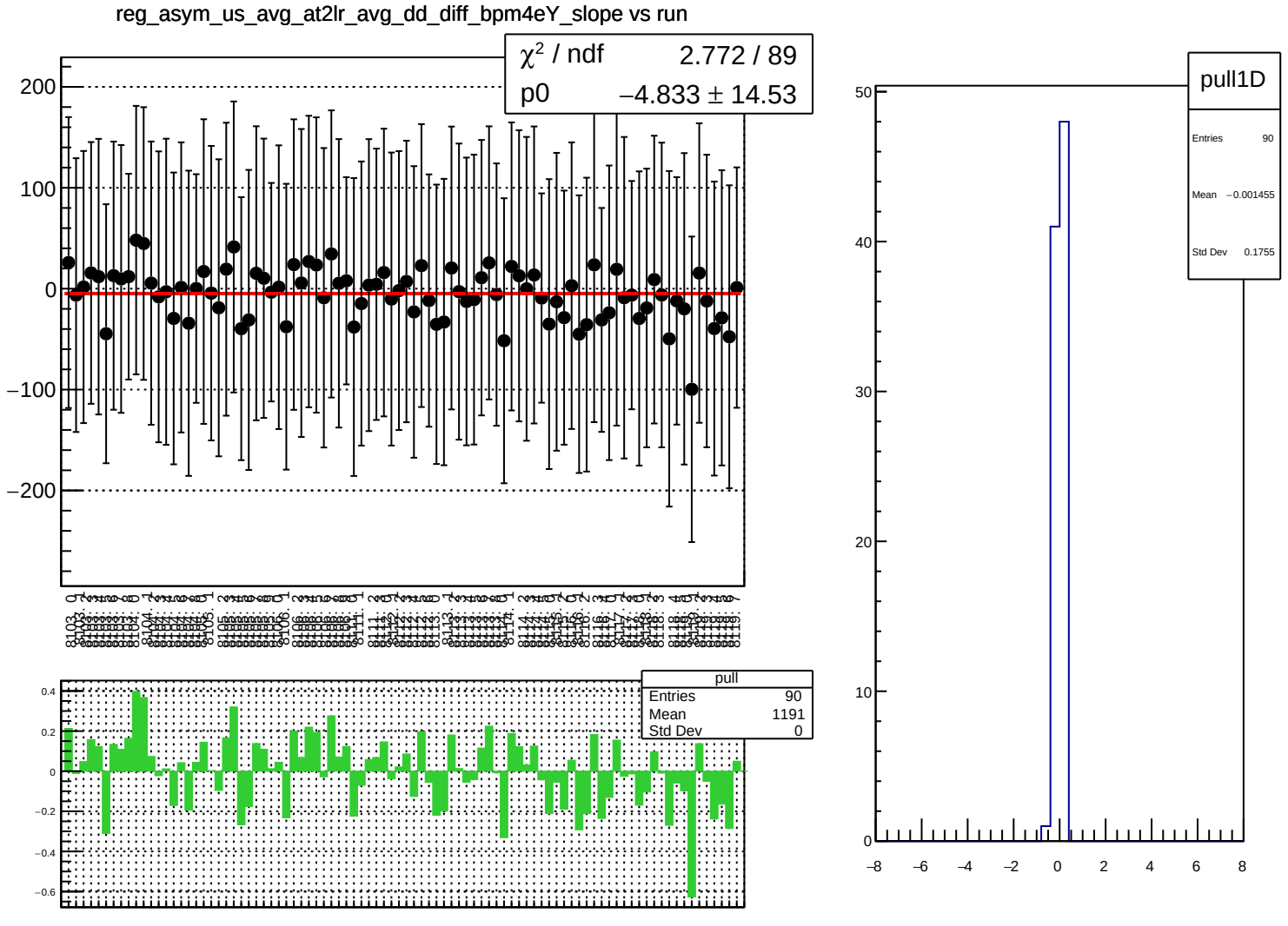

pull1D
Entries 90
Mean −0.0009885
Std Dev 0.1966
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

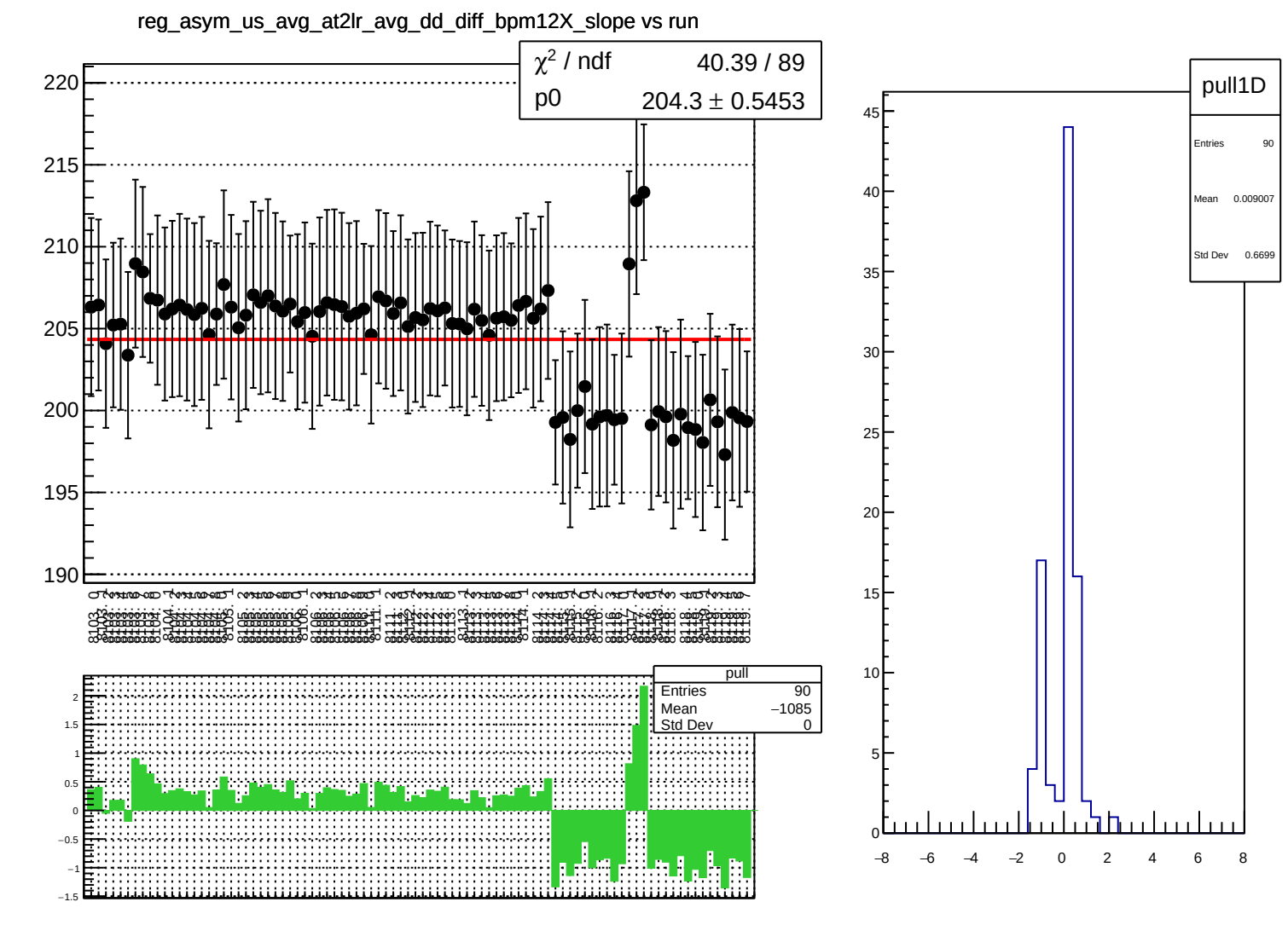

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 23.01 / 89
p0 −276.7 ± 0.734
pull
Entries 90
Mean −1048
Std Dev 0
pull1D
Entries 90
Mean −0.00663
Std Dev 0.5056

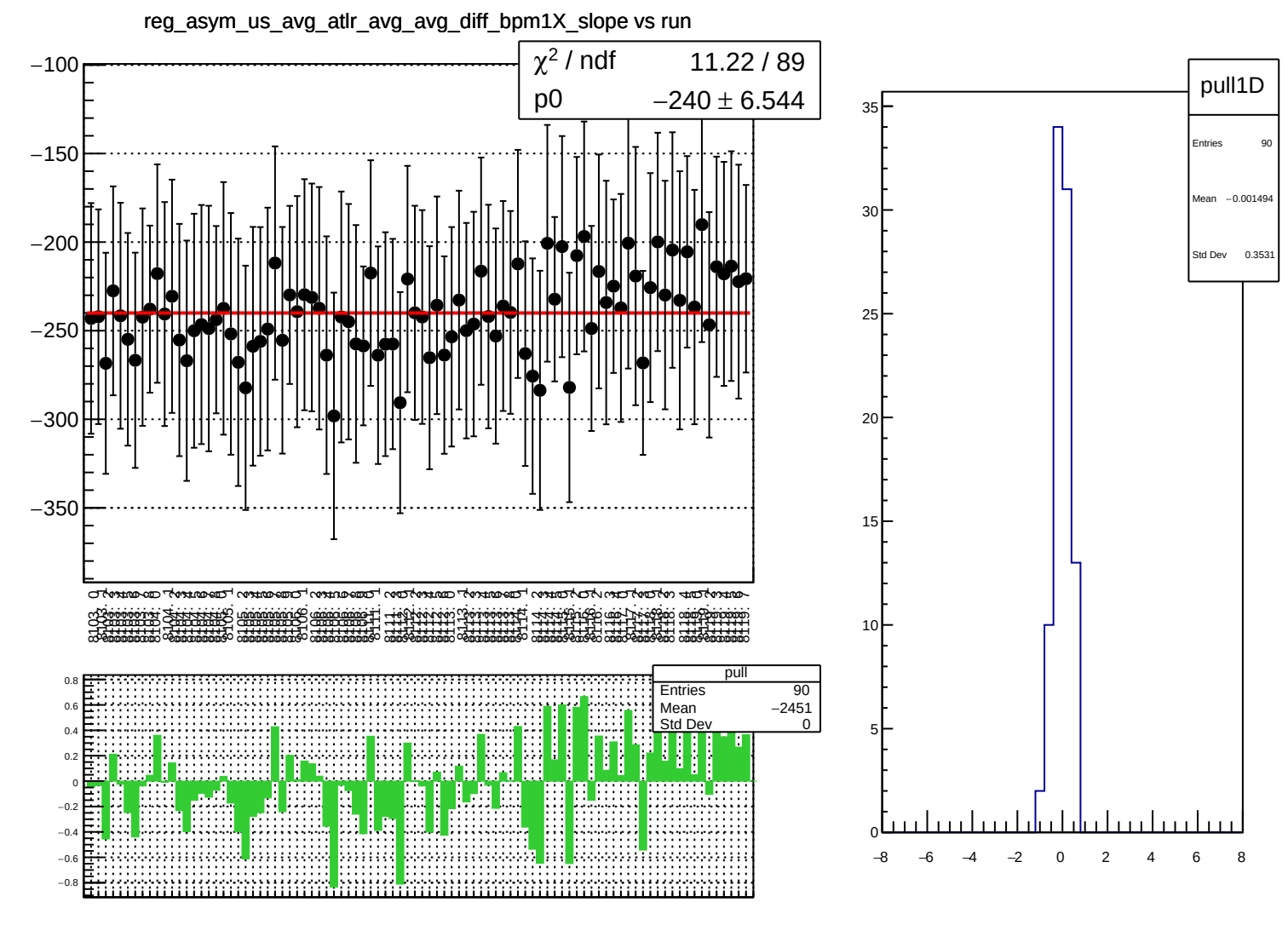

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 3.629 / 89
p0 334 ± 9.036
pull
Entries 90
Mean −1.126e+04
Std Dev 0
pull1D
Entries 90
Mean 0.0002029
Std Dev 0.2008

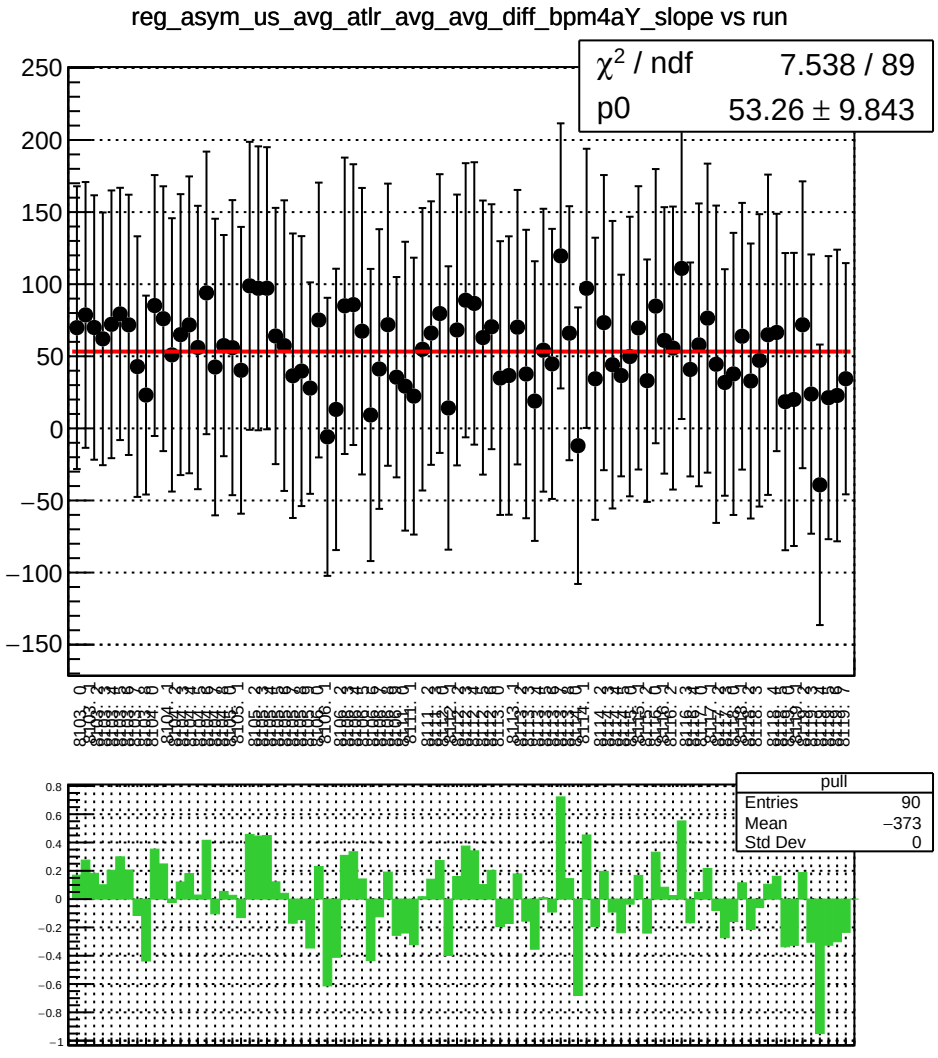

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.022 / 89
p0 −84.03 ± 13.59
150
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 90
Mean 1075
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 90
Mean 0.002109
Std Dev 0.1832
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

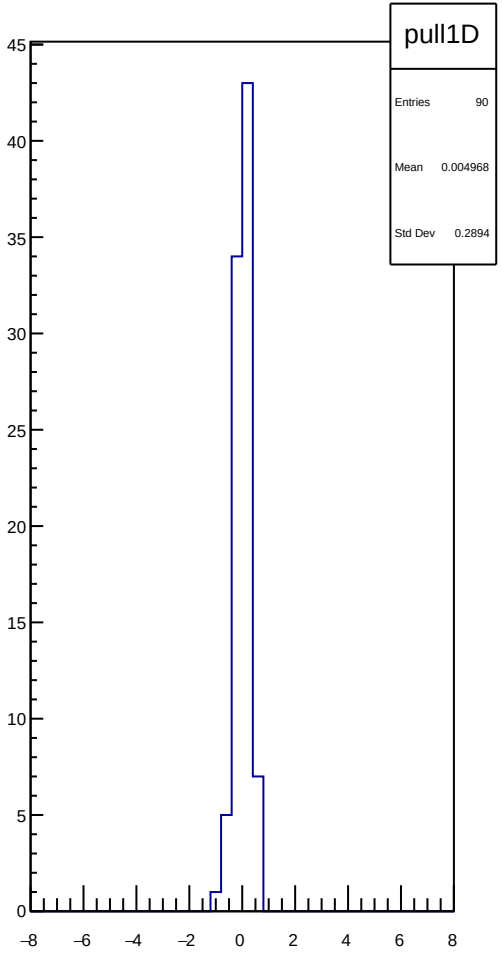

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.811 / 89
p0 −311.1 ± 8.593
−200
−250
−300
−350
−400
−450
pull
Entries 90
Mean −3661
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 90
Mean −0.0007022
Std Dev 0.2058
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

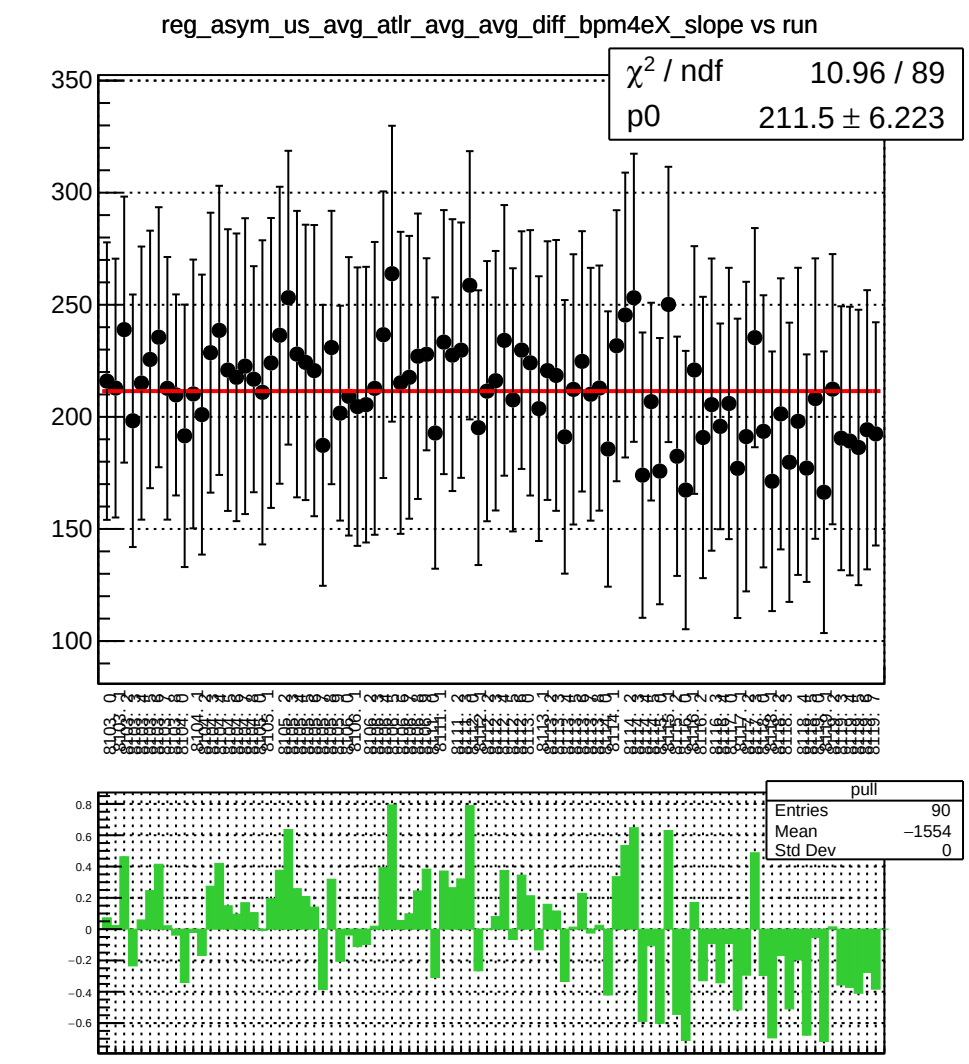

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.772 / 89
p0 −4.833 ± 14.53
200
100
0
−100
−200
pull
Entries 90
Mean 1191
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 90
Mean −0.001455
Std Dev 0.1755
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

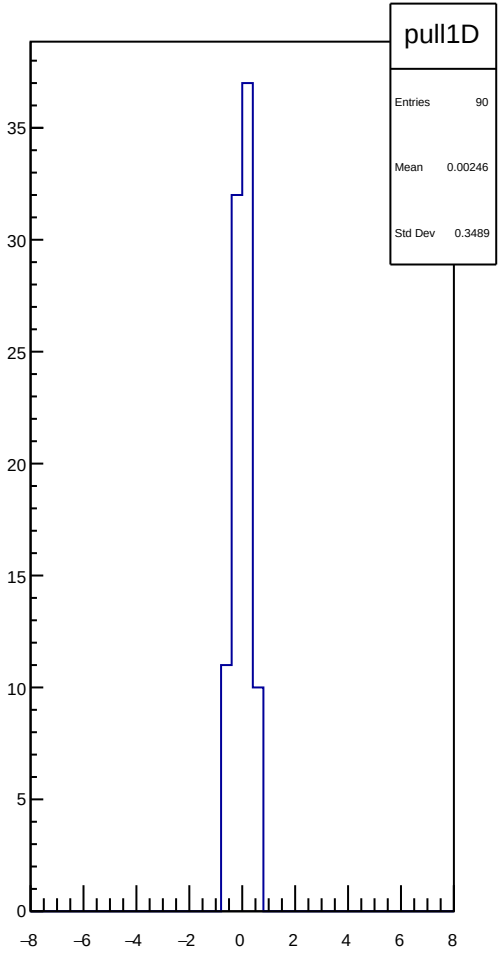

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 40.39 / 89
p0 204.3 ± 0.5453
pull
Entries 90
Mean −1085
Std Dev 0
pull1D
Entries 90
Mean 0.009007
Std Dev 0.6699

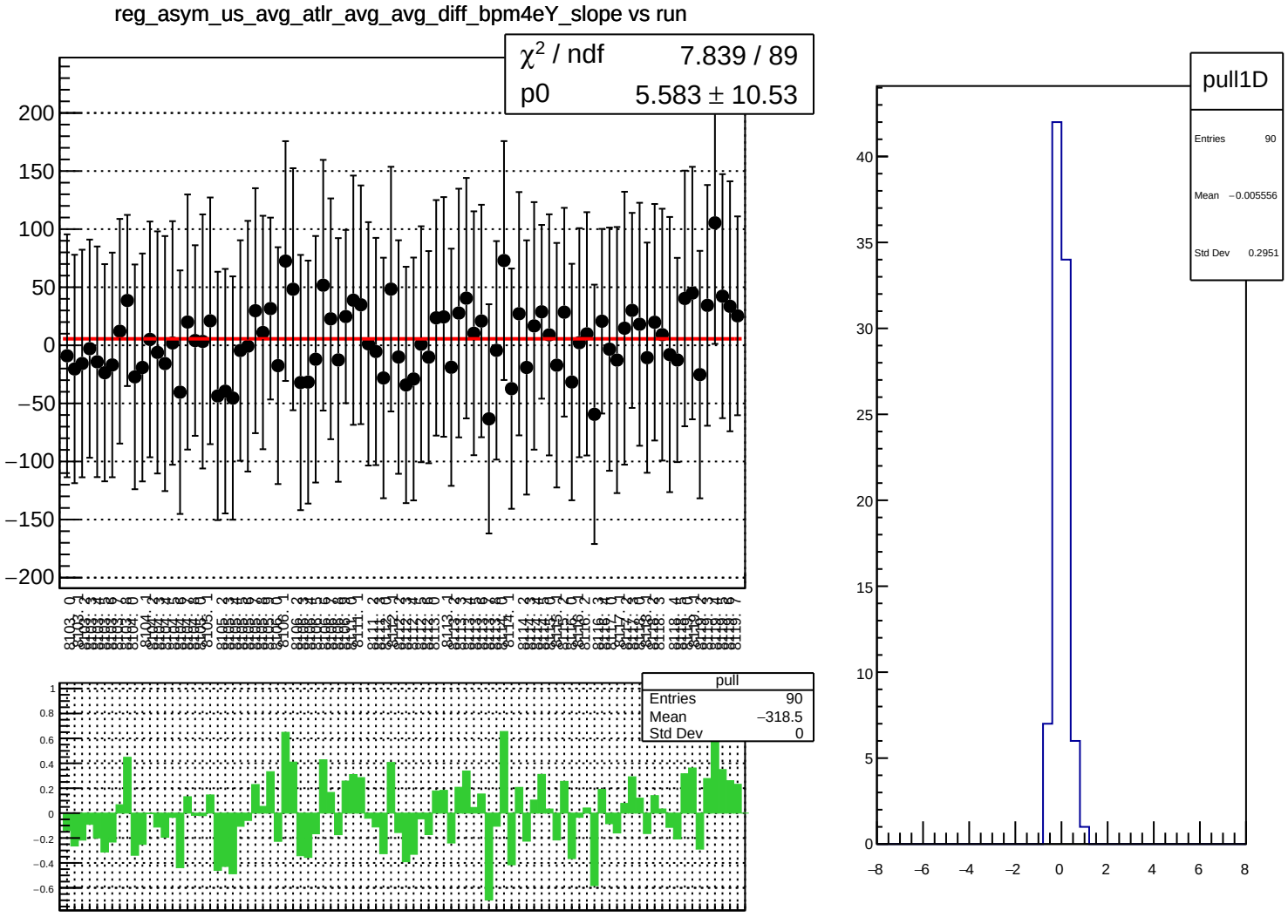

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.22 / 89
p0 −240 ± 6.544
−100
−150
−200
−250
−300
−350
pull
Entries 90
Mean −2451
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 90
Mean −0.001494
Std Dev 0.3531
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

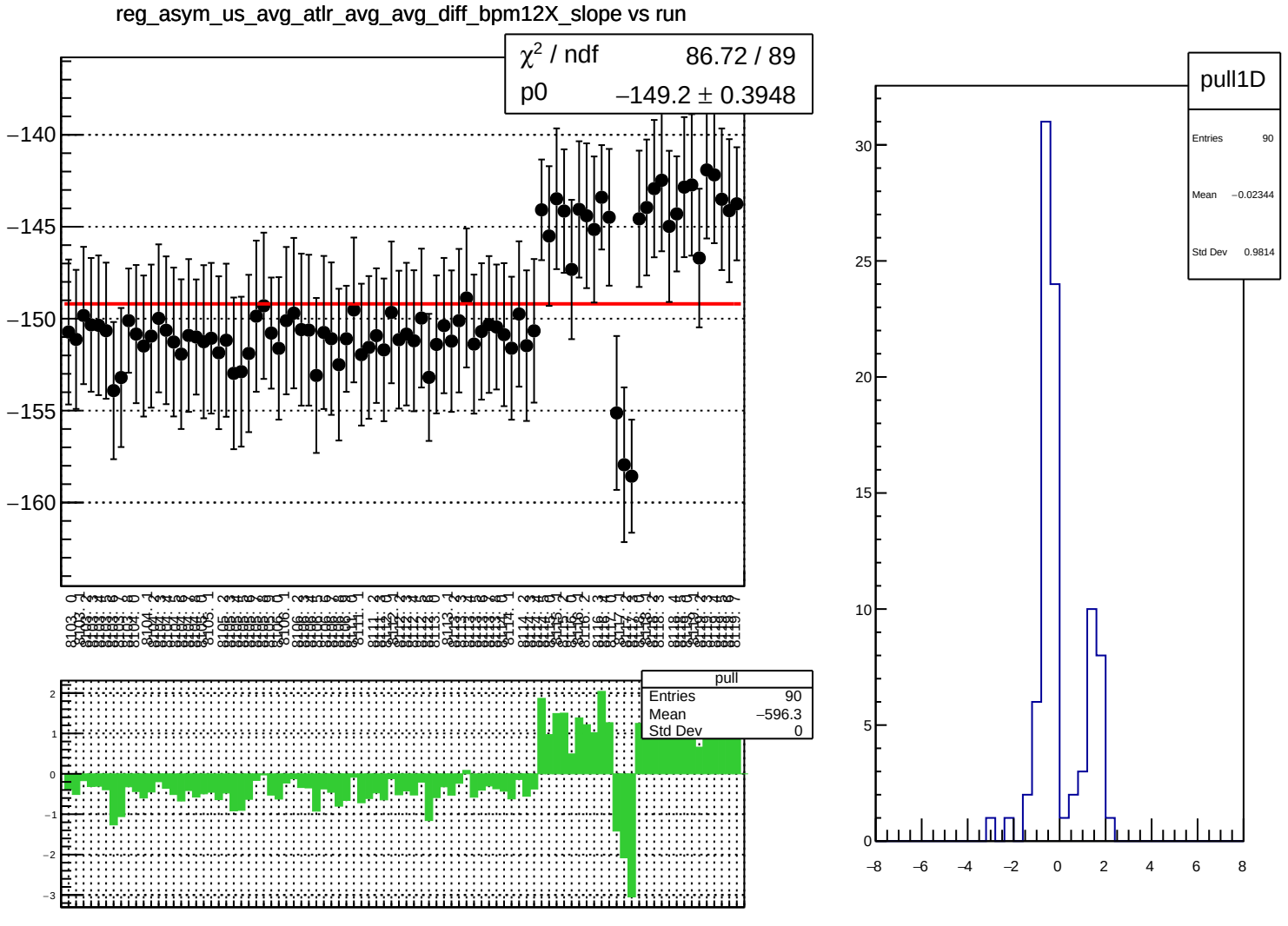

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.538 / 89
p0 53.26 ± 9.843
pull
Entries 90
Mean −373
Std Dev 0

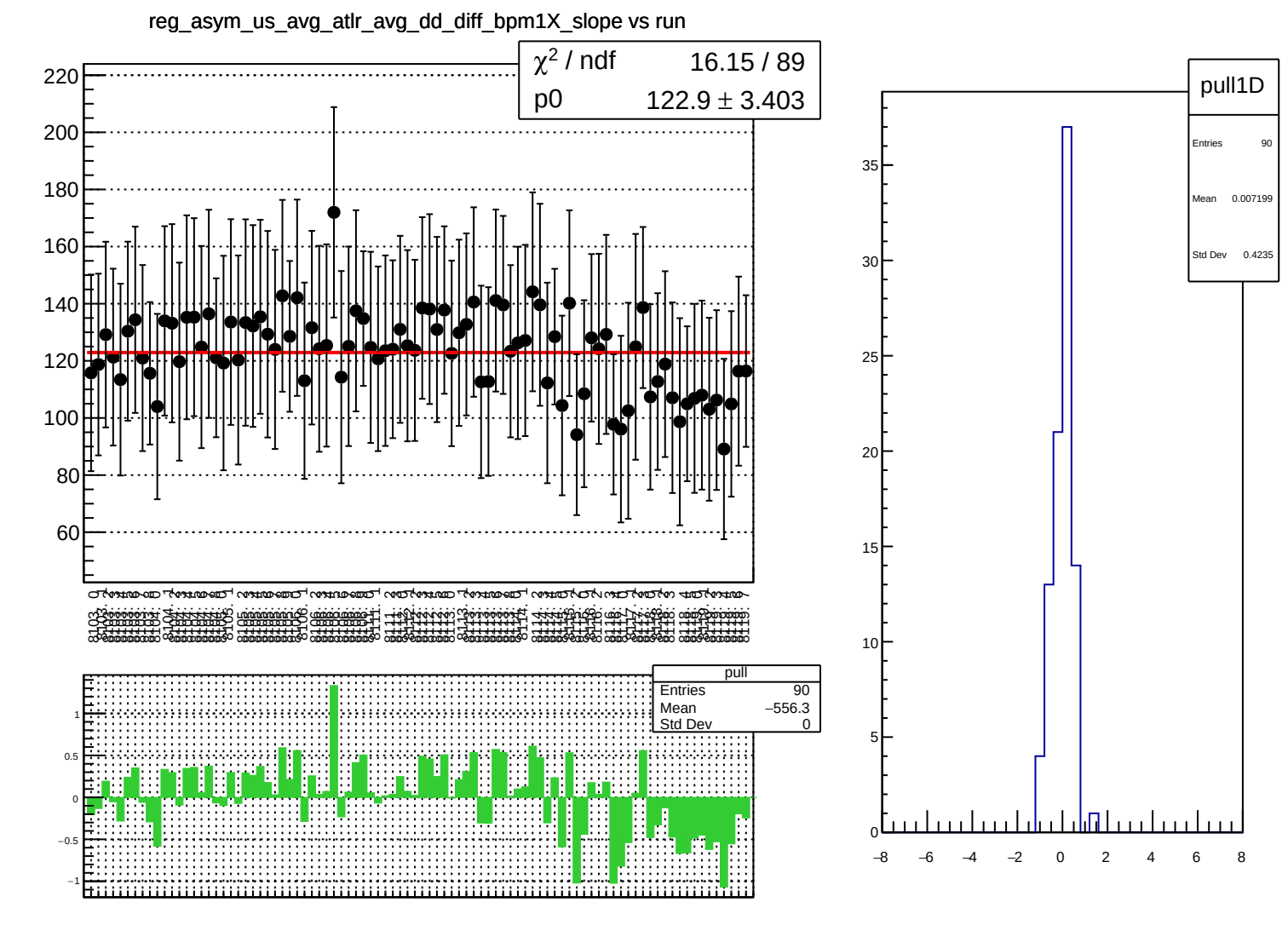

pull1D
Entries 90
Mean 0.004968
Std Dev 0.2894

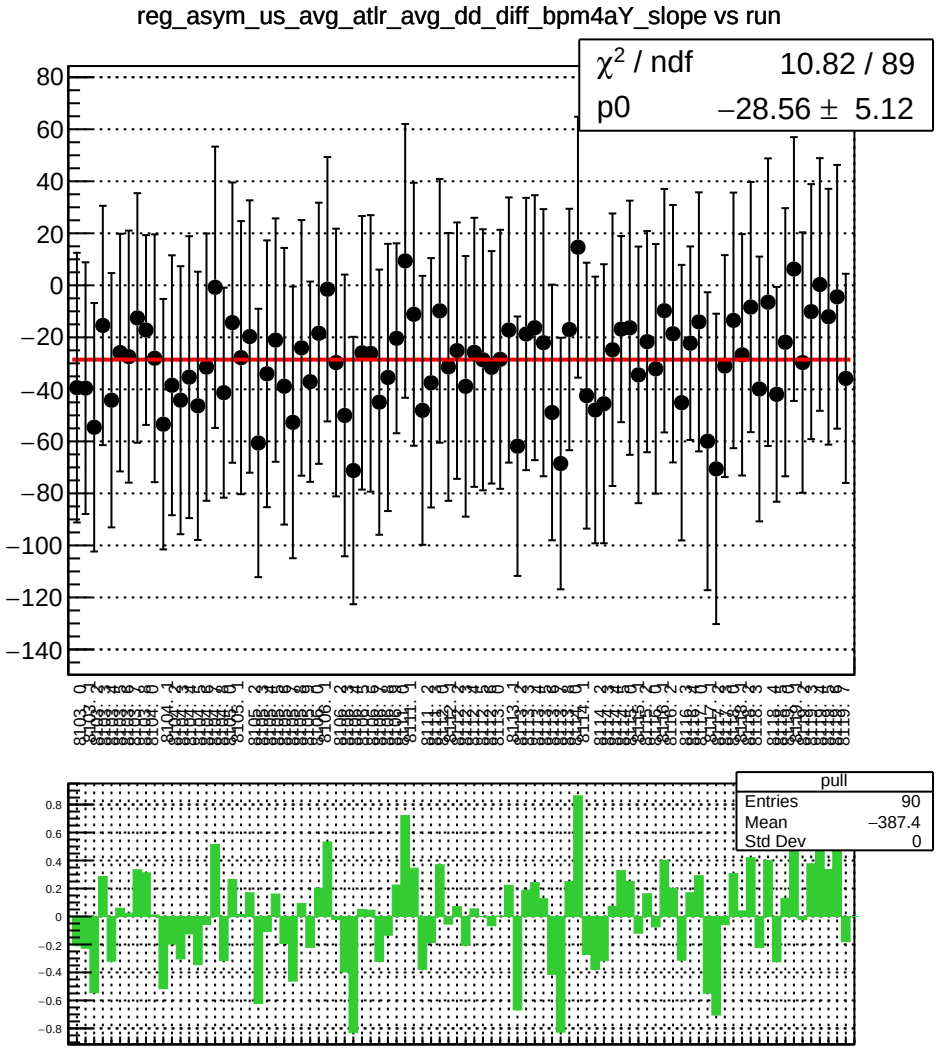

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.96 / 89
p0 211.5 ± 6.223
pull
Entries 90
Mean −1554
Std Dev 0

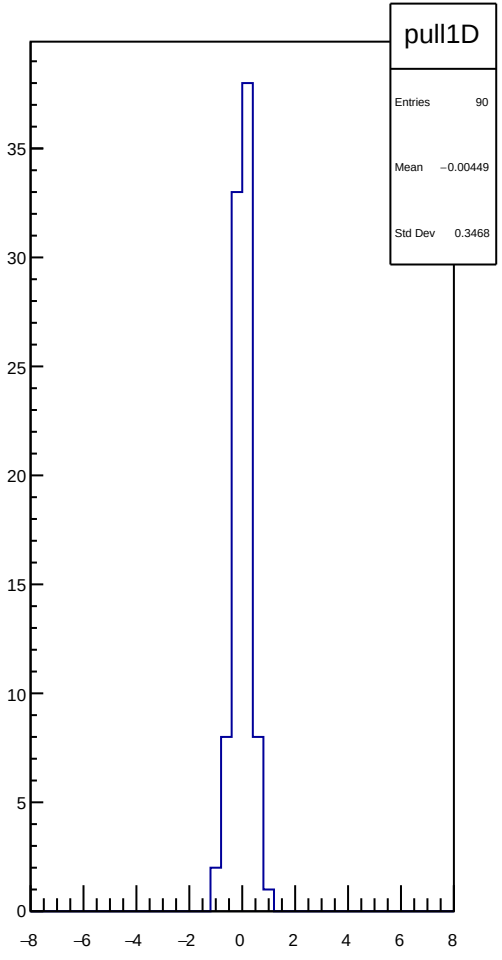

pull1D
Entries 90
Mean 0.00246
Std Dev 0.3489

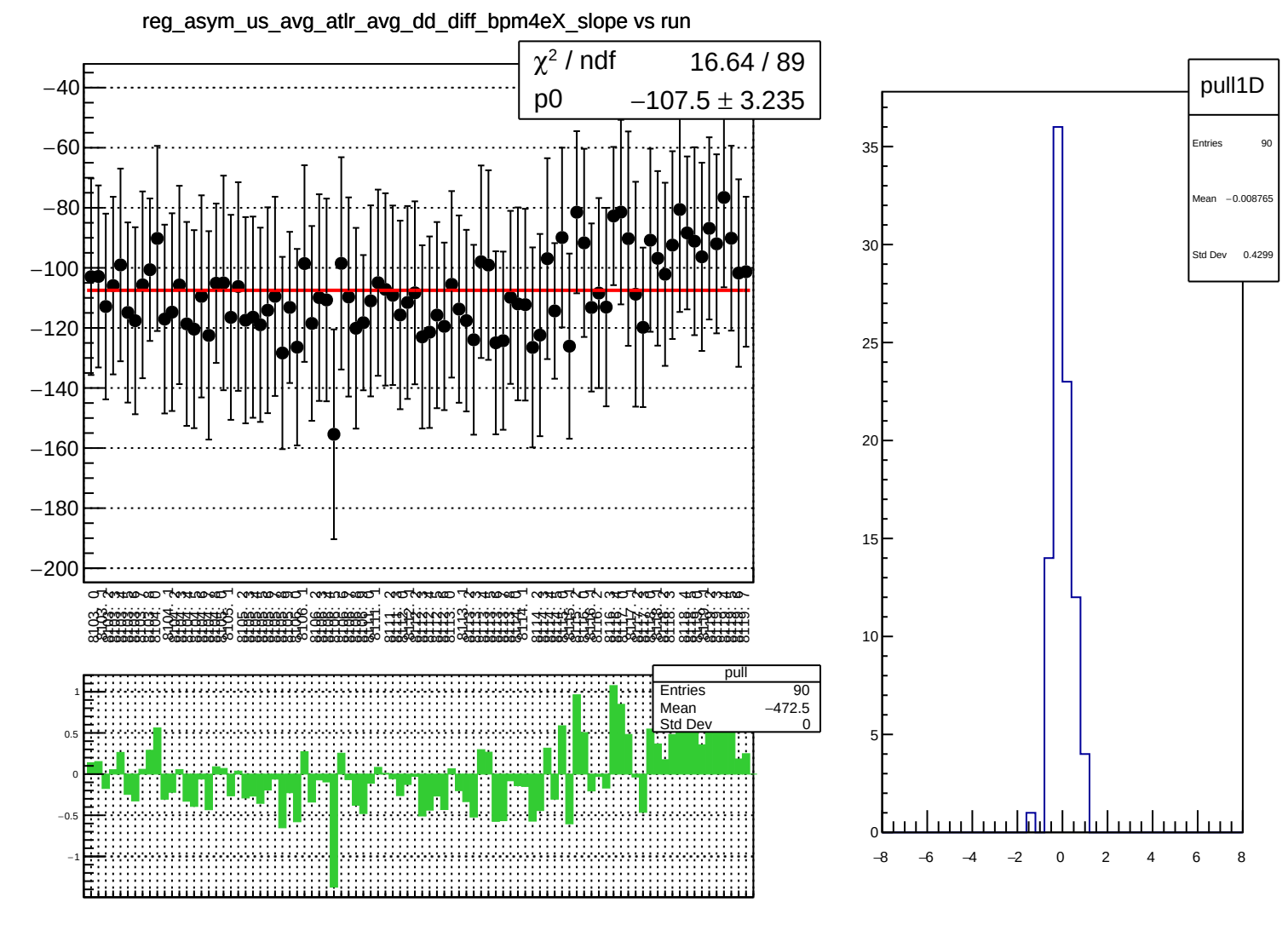

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.839 / 89
p0 5.583 ± 10.53
pull
Entries 90
Mean −318.5
Std Dev 0
pull1D
Entries 90
Mean −0.005556
Std Dev 0.2951

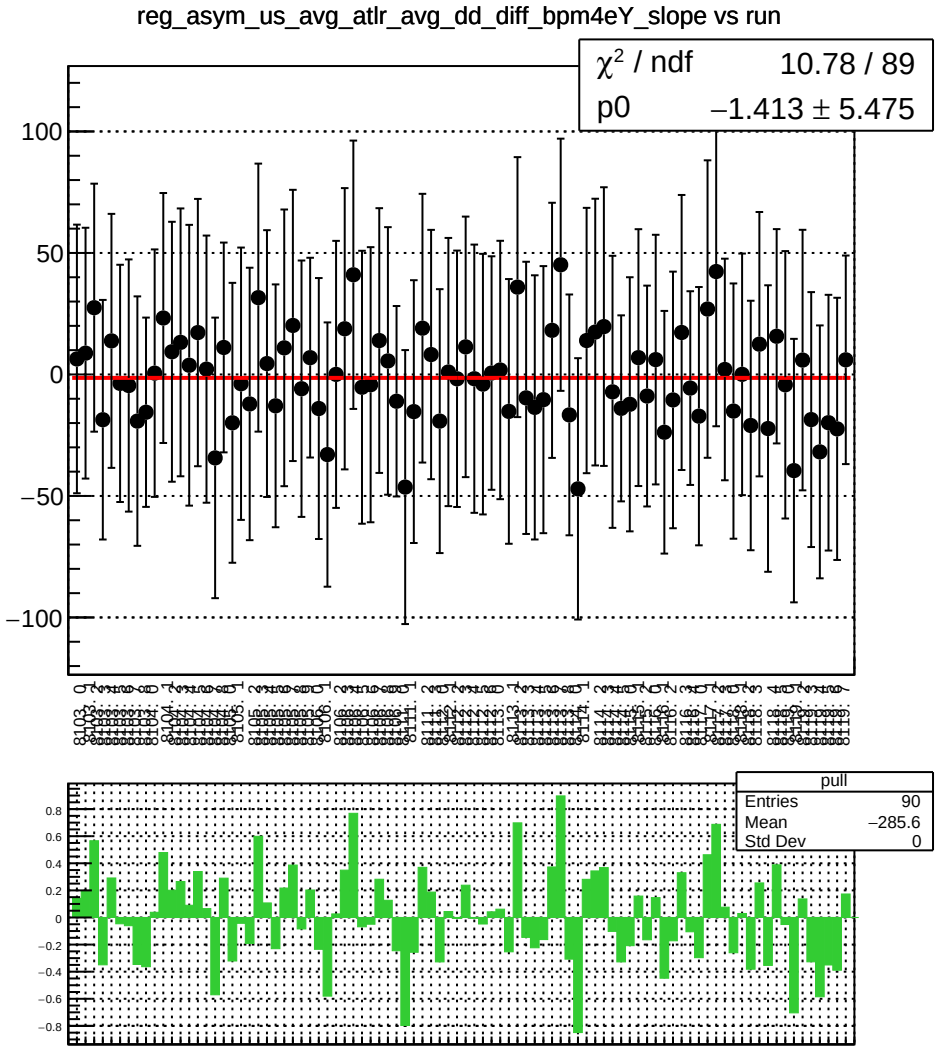

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 86.72 / 89
p0 −149.2 ± 0.3948
−140
−145
−150
−155
−160
pull
Entries 90
Mean −596.3
Std Dev 0
pull1D
Entries 90
Mean −0.02344
Std Dev 0.9814

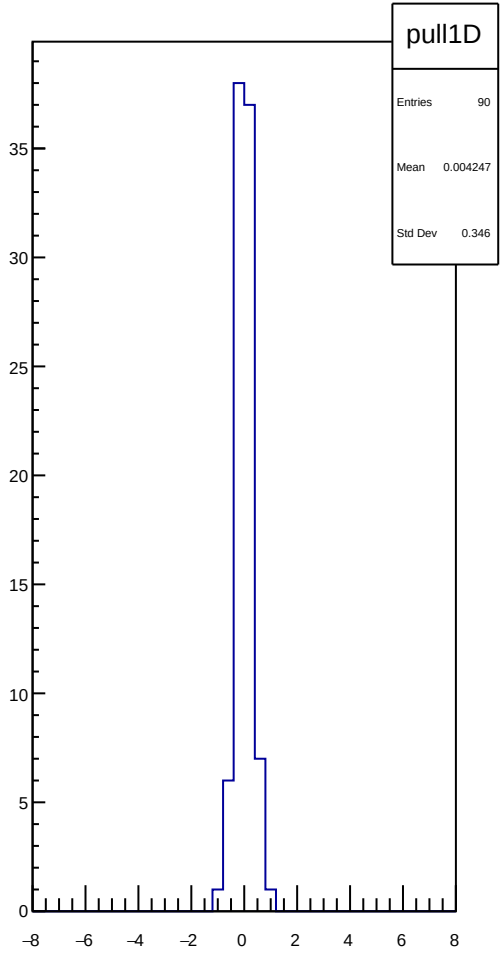

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 16.15 / 89
p0 122.9 ± 3.403
pull
Entries 90
Mean −556.3
Std Dev 0
pull1D
Entries 90
Mean 0.007199
Std Dev 0.4235

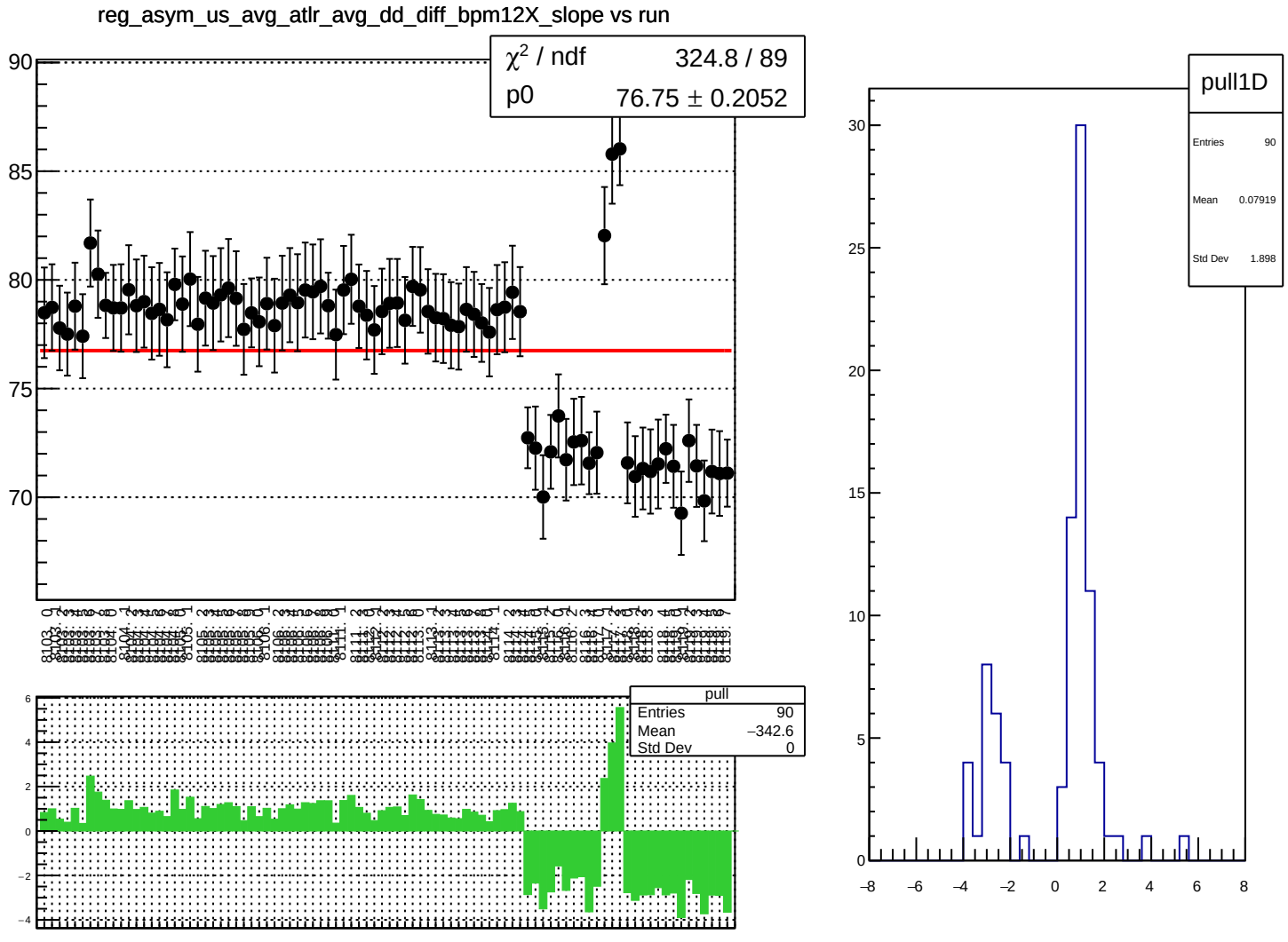

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.82 / 89
p0 −28.56 ± 5.12
pull
Entries 90
Mean −387.4
Std Dev 0

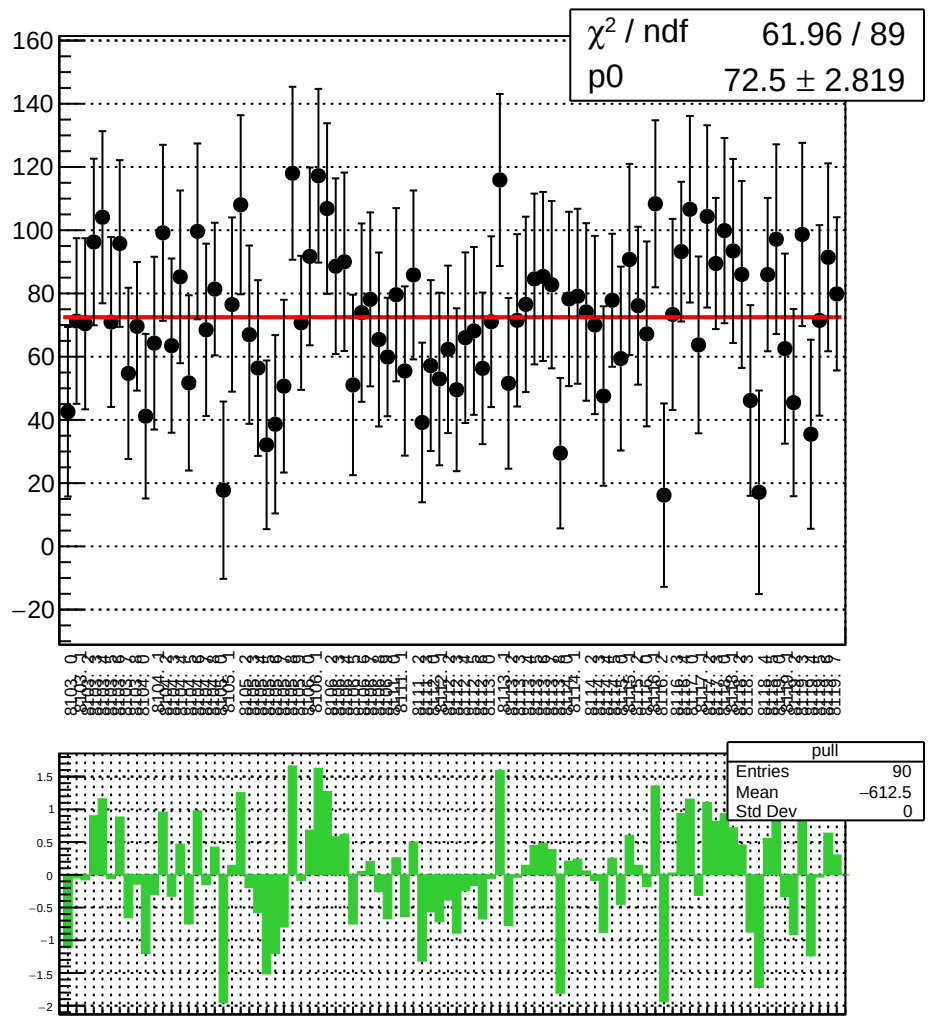

pull1D
Entries 90
Mean −0.00449
Std Dev 0.3468

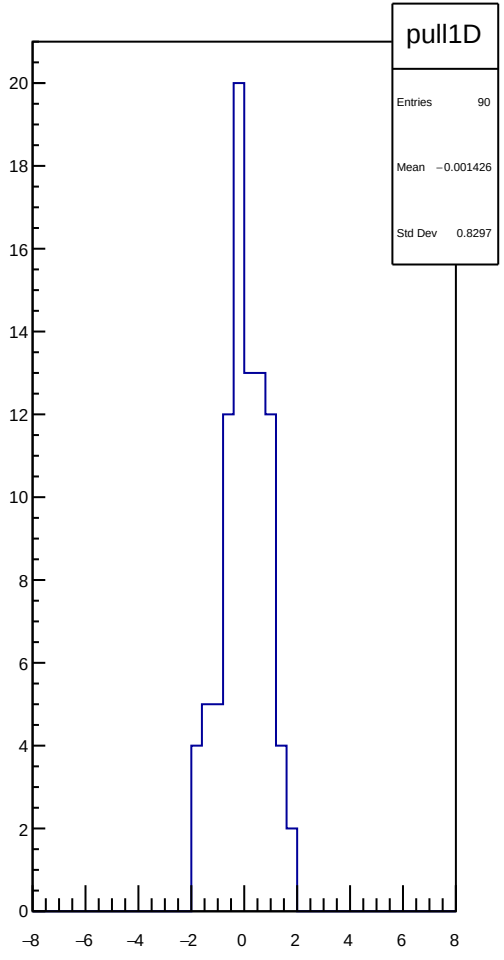

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.64 / 89
p0 −107.5 ± 3.235
pull
Entries 90
Mean −472.5
Std Dev 0
pull1D
Entries 90
Mean −0.008765
Std Dev 0.4299

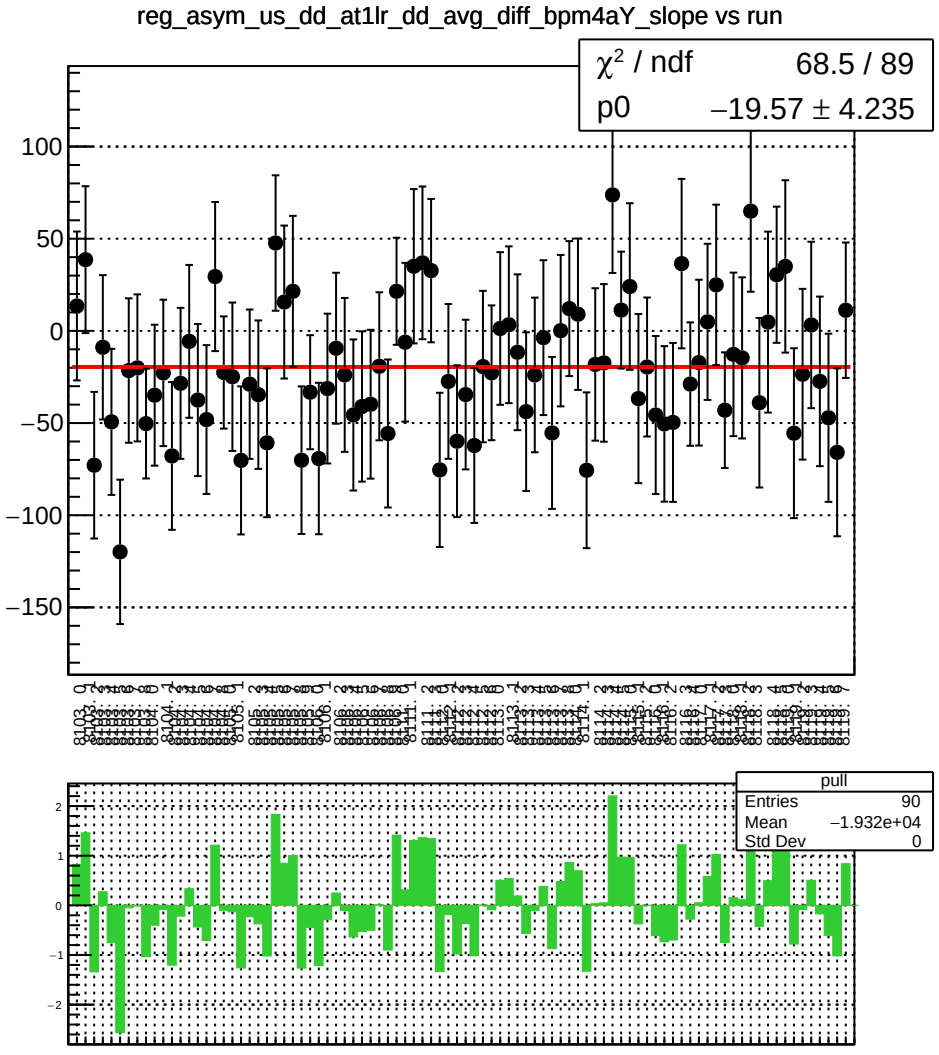

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.78 / 89
p0 −1.413 ± 5.475
100
50
0
−50
−100
pull
Entries 90
Mean −285.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

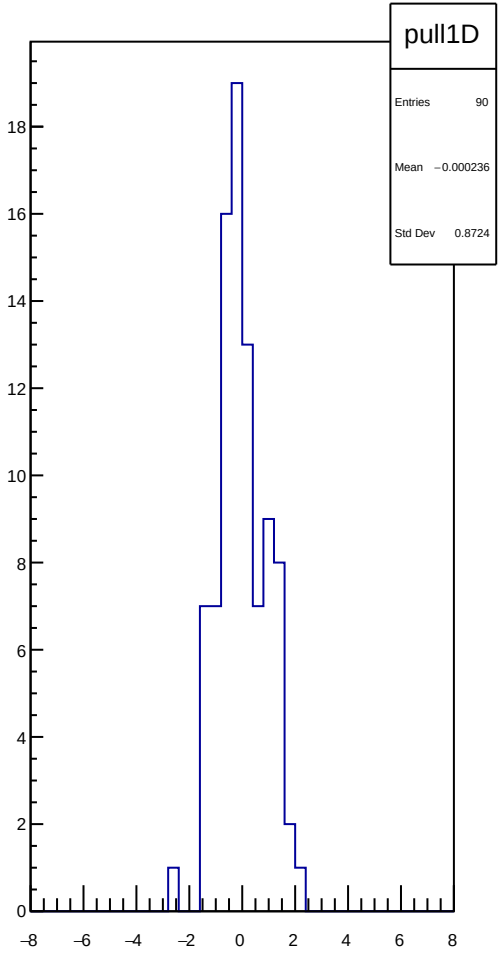

pull1D
Entries 90
Mean 0.004247
Std Dev 0.346
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

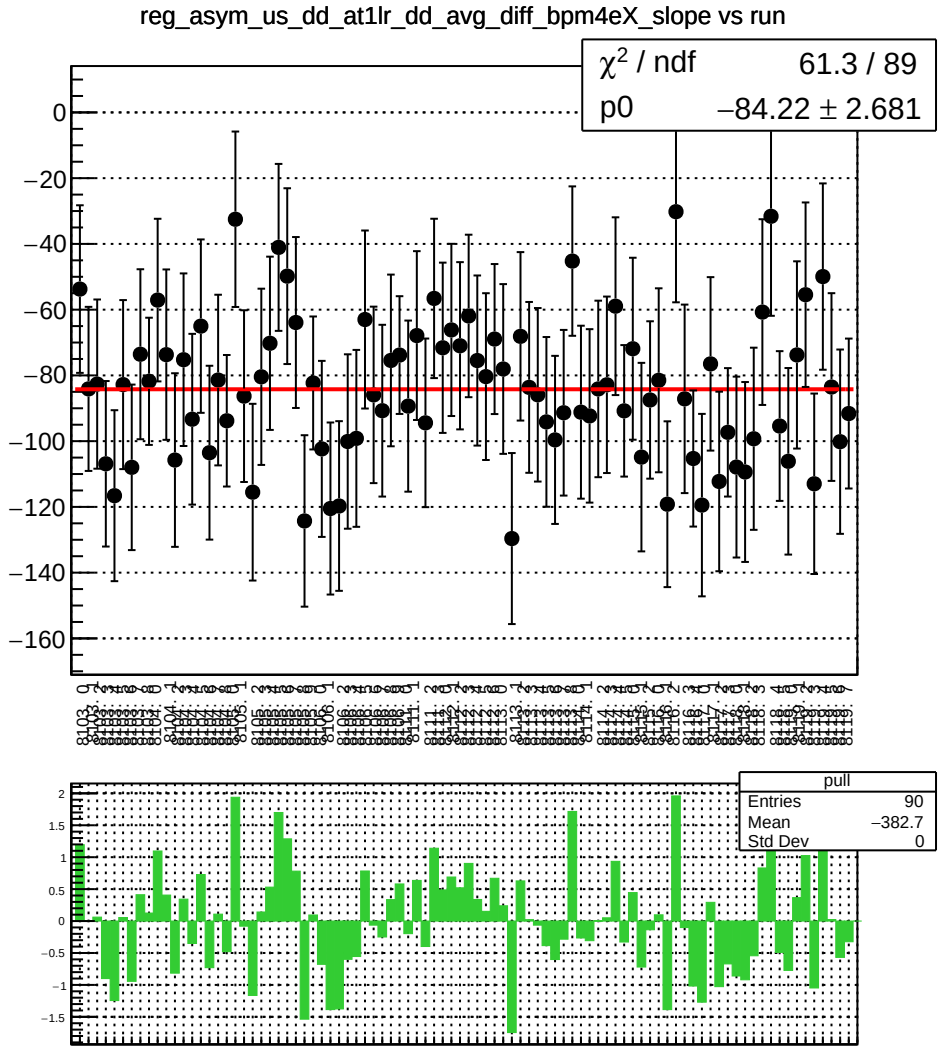

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 324.8 / 89
p0 76.75 ± 0.2052
pull
Entries 90
Mean −342.6
Std Dev 0
pull1D
Entries 90
Mean 0.07919
Std Dev 1.898

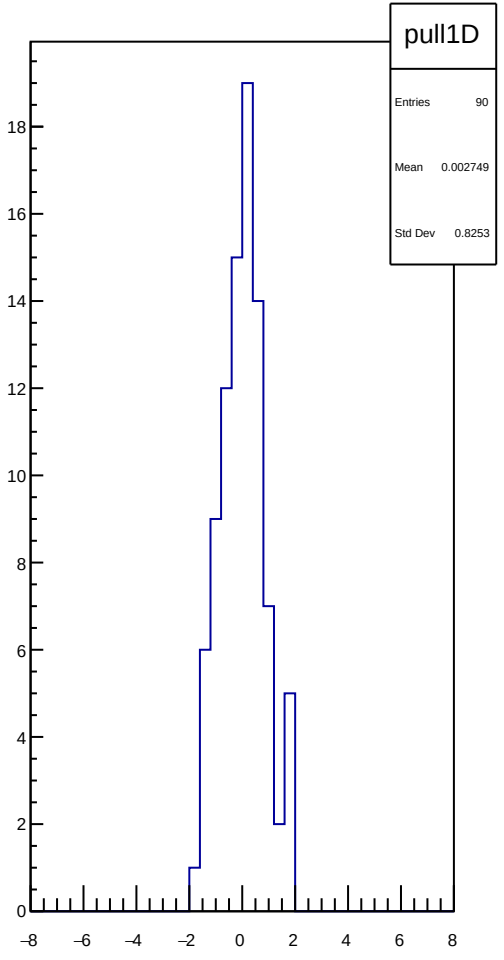

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 61.96 / 89
p0 72.5 ± 2.819
pull
Entries 90
Mean −612.5
Std Dev 0

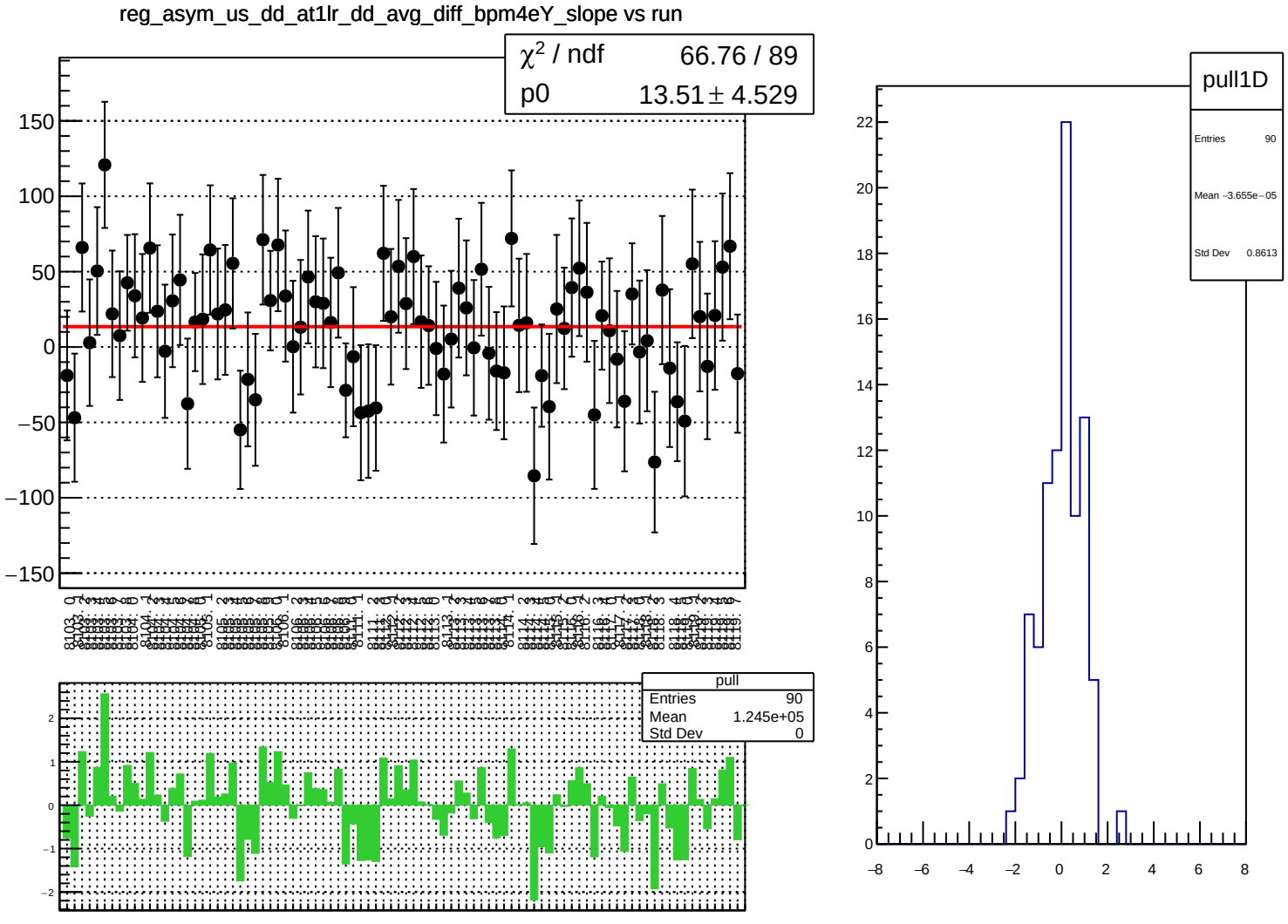

pull1D
Entries 90
Mean −0.001426
Std Dev 0.8297

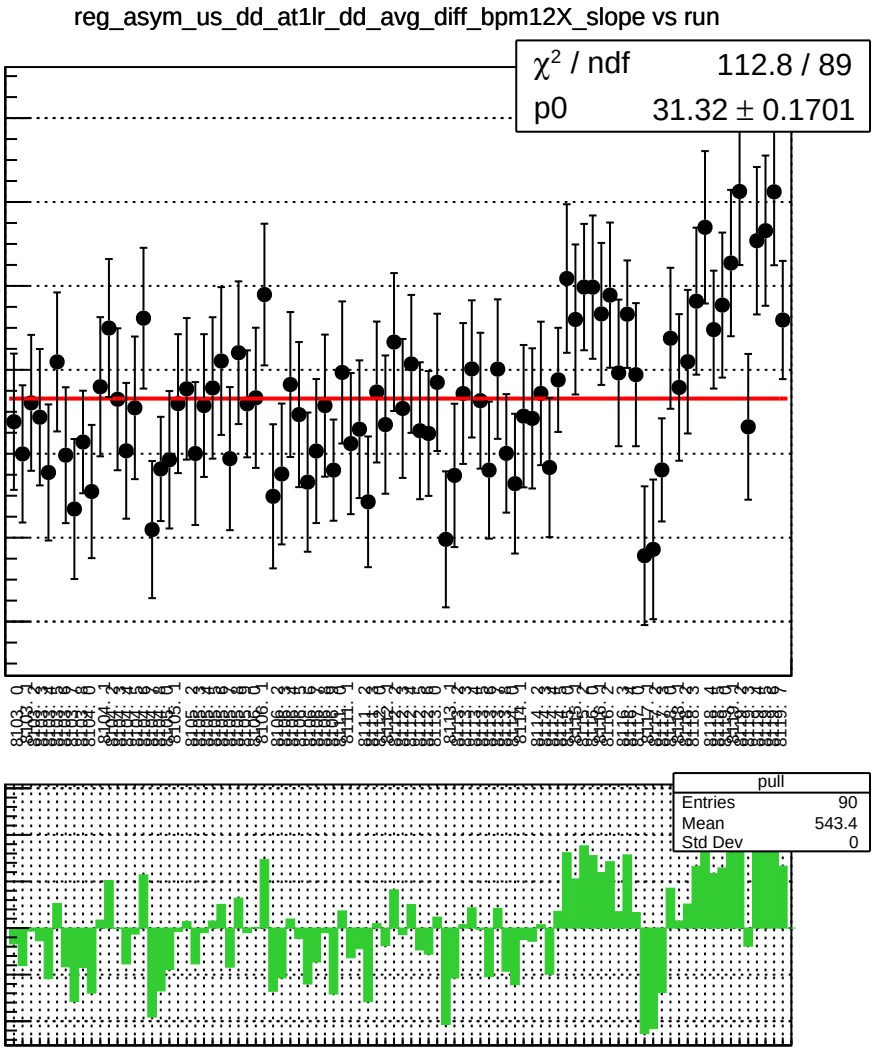

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.5 / 89
p0 −19.57 ± 4.235
pull
Entries 90
Mean −1.932e+04
Std Dev 0

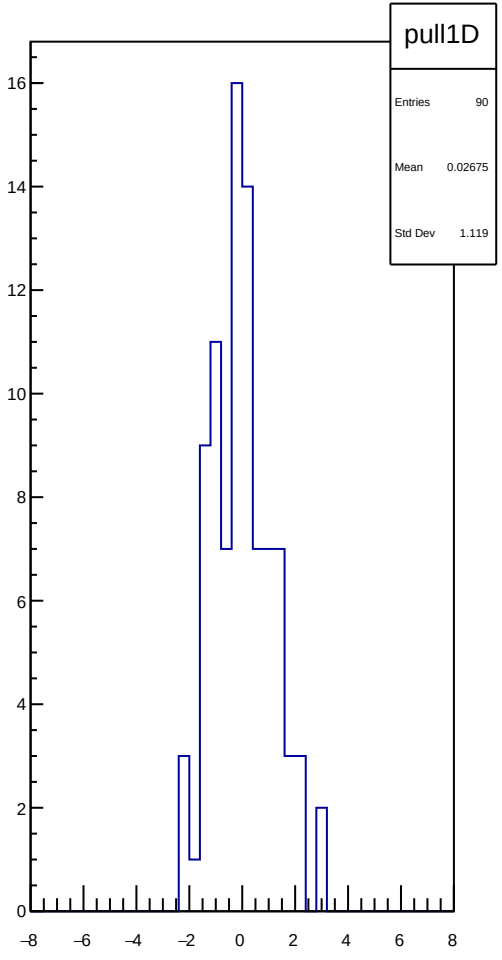

pull1D
Entries 90
Mean −0.000236
Std Dev 0.8724

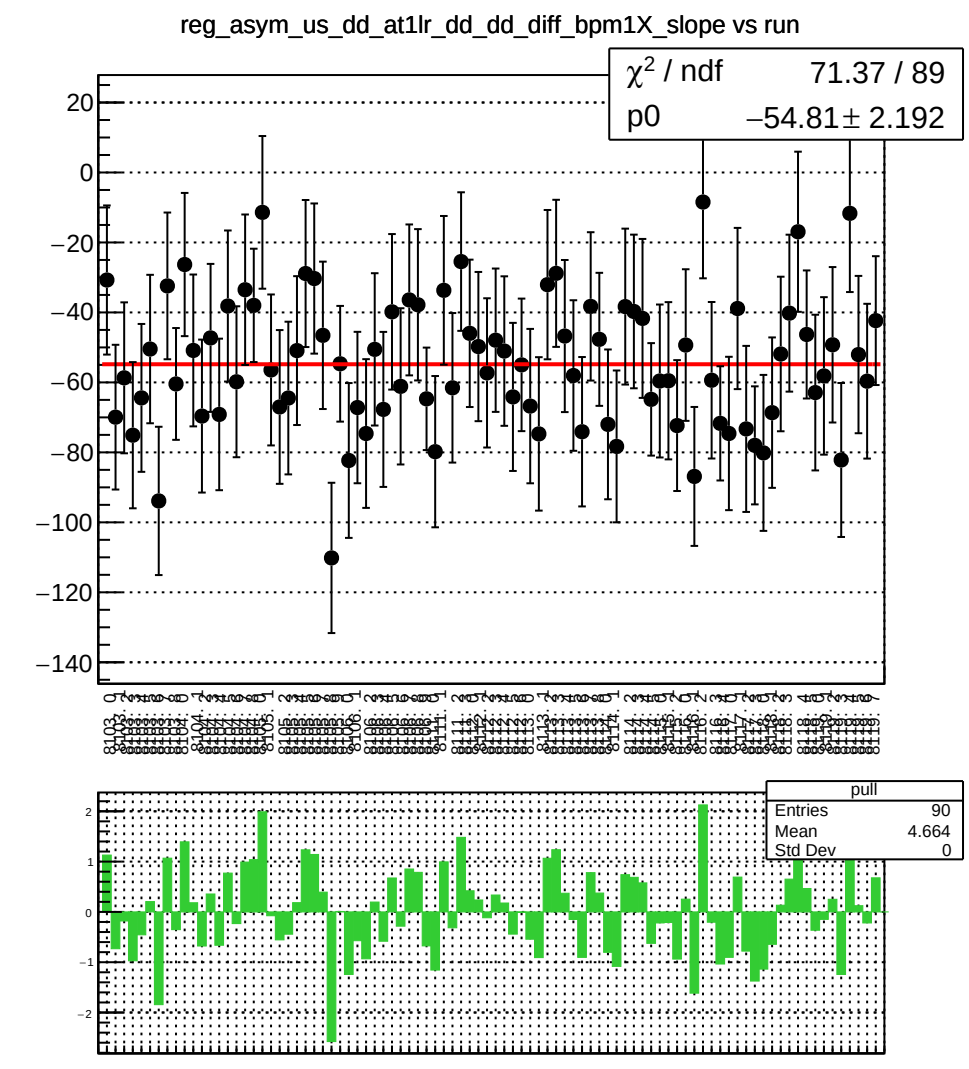

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.3 / 89
p0 −84.22 ± 2.681
pull
Entries 90
Mean −382.7
Std Dev 0

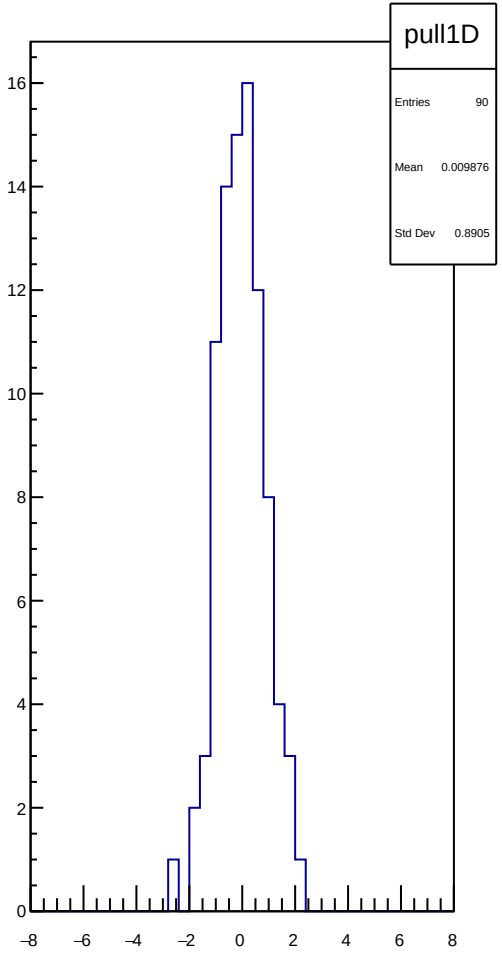

pull1D
Entries 90
Mean 0.002749
Std Dev 0.8253

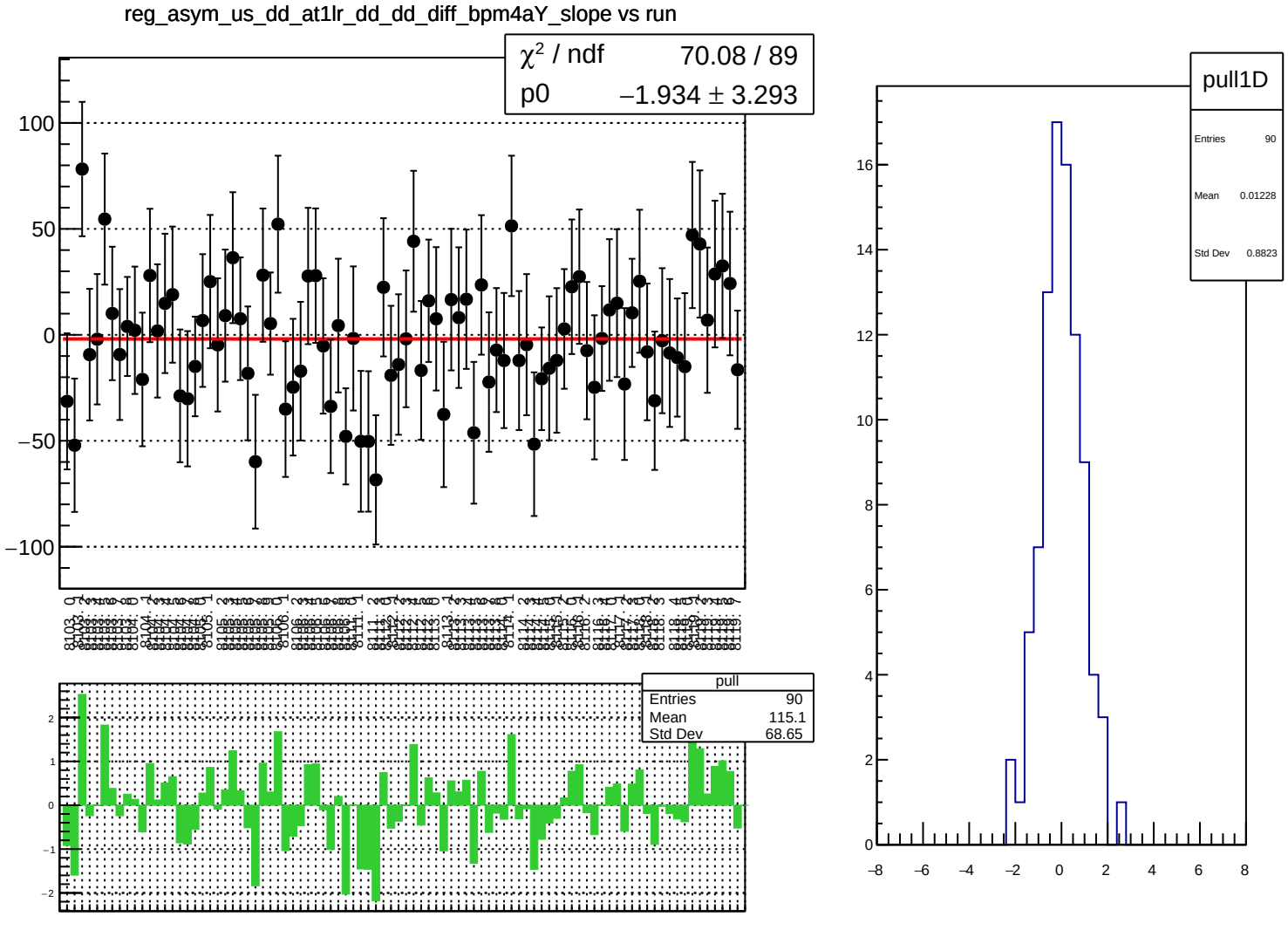

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.76 / 89
p0 13.51 ± 4.529
pull
Entries 90
Mean 1.245e+05
Std Dev 0
pull1D
Entries 90
Mean −3.655e−05
Std Dev 0.8613

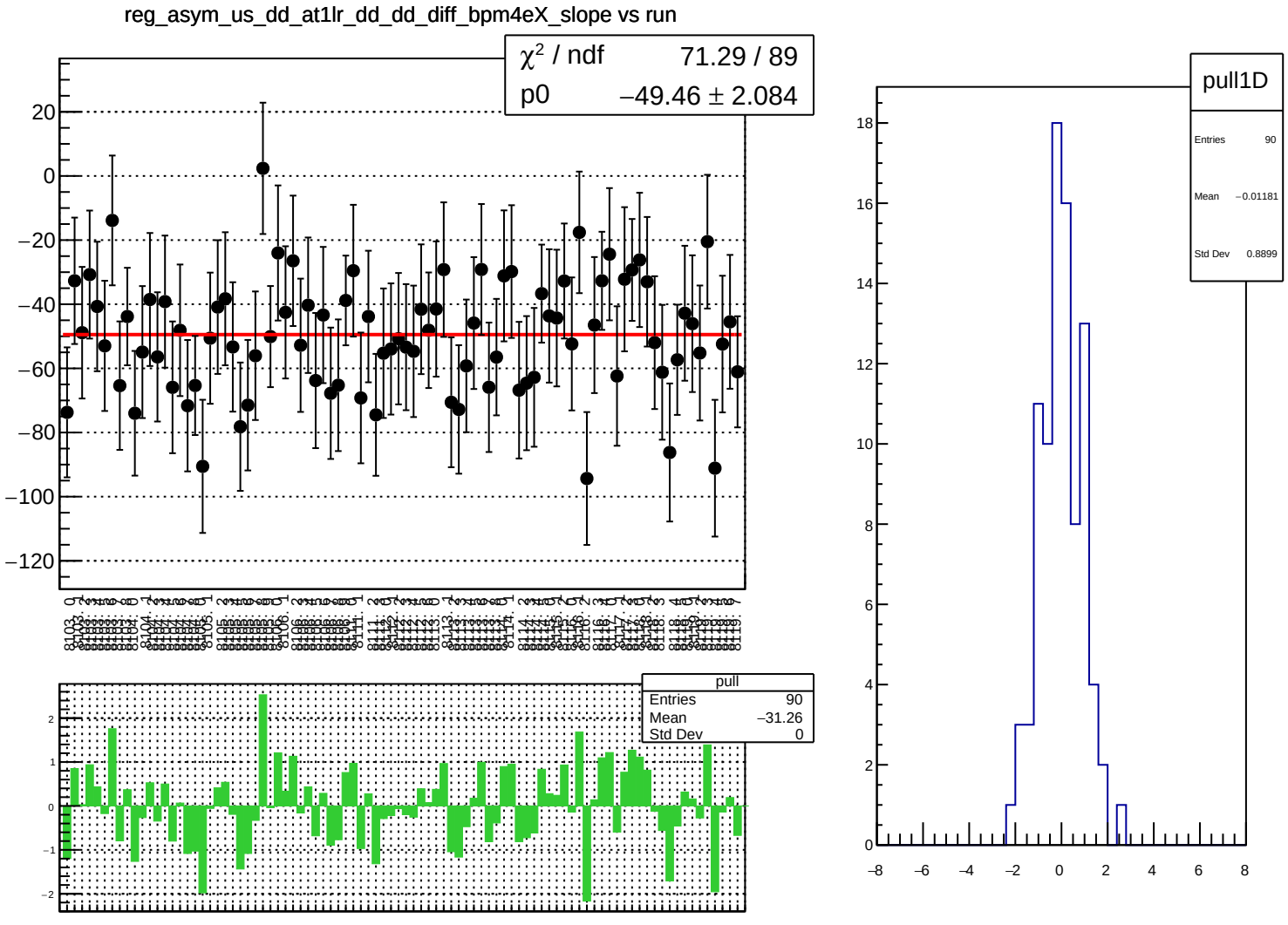

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 112.8 / 89
p0 31.32 ± 0.1701
pull
Entries 90
Mean 543.4
Std Dev 0

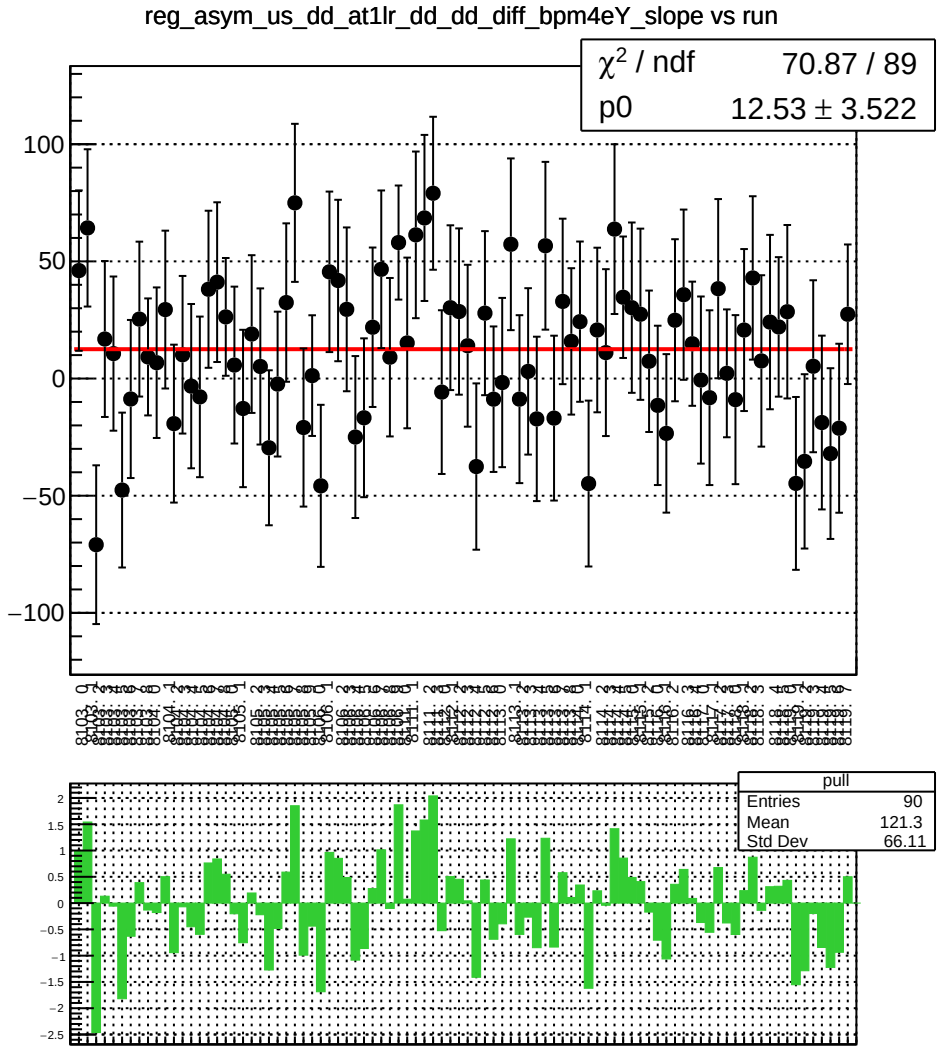

pull1D
Entries 90
Mean 0.02675
Std Dev 1.119

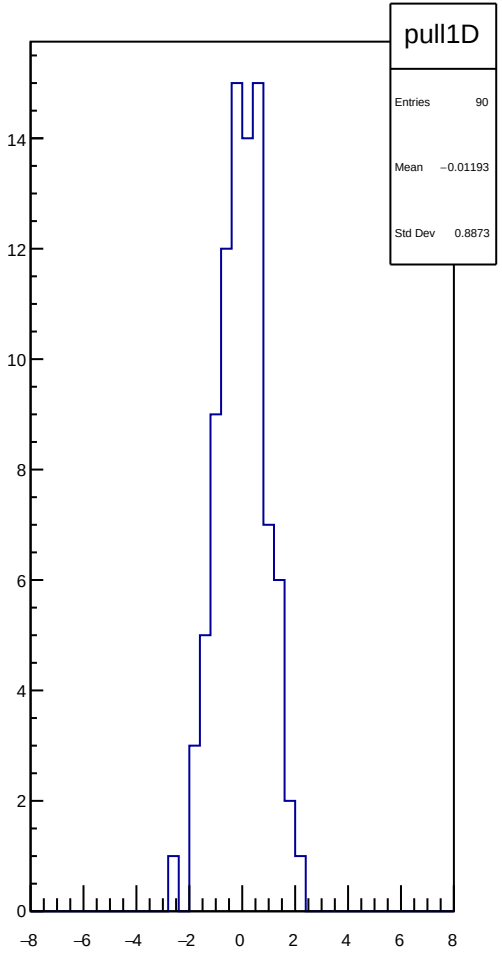

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 71.37 / 89
p0 −54.81 ± 2.192
pull
Entries 90
Mean 4.664
Std Dev 0

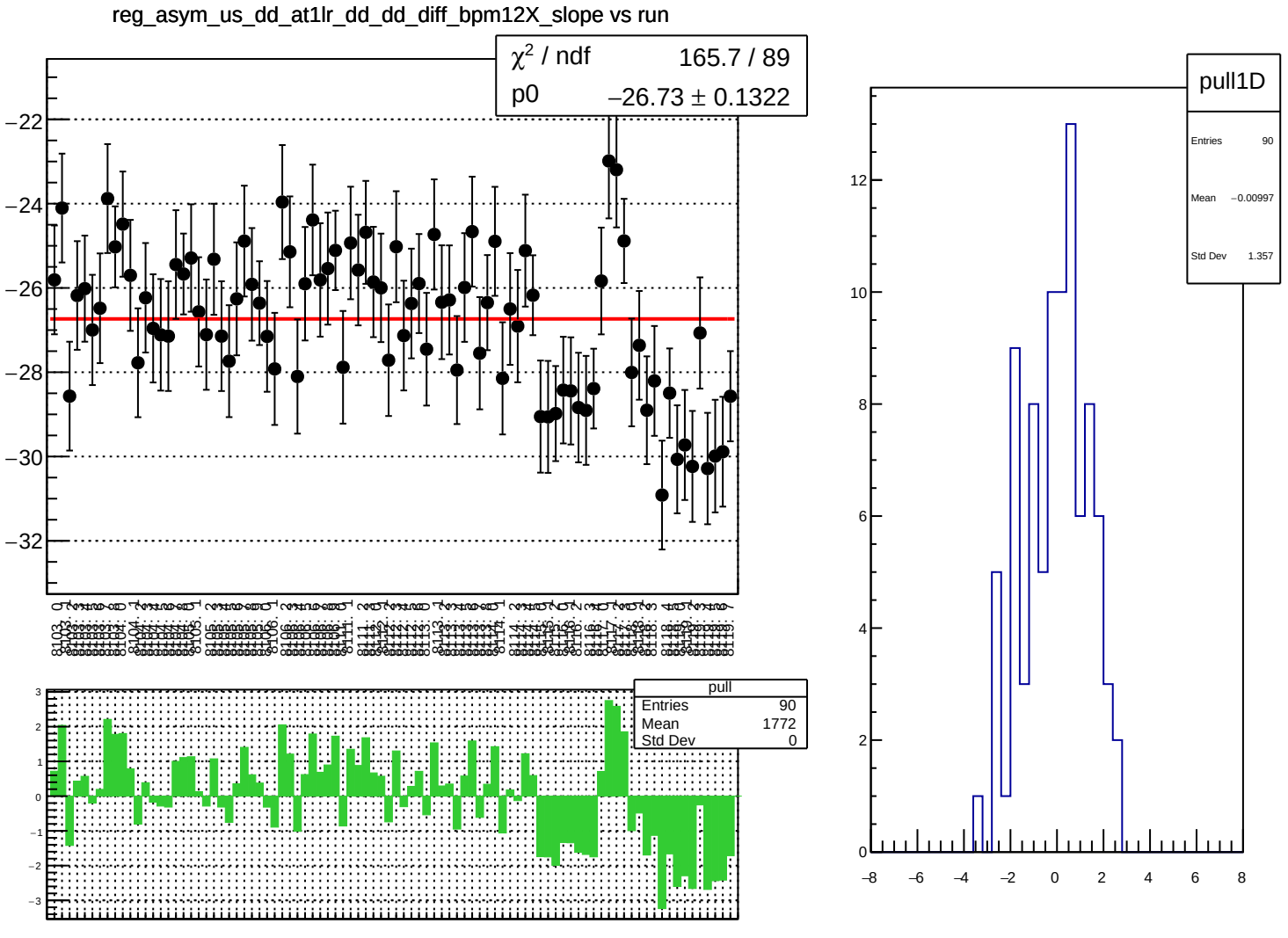

pull1D
Entries 90
Mean 0.009876
Std Dev 0.8905

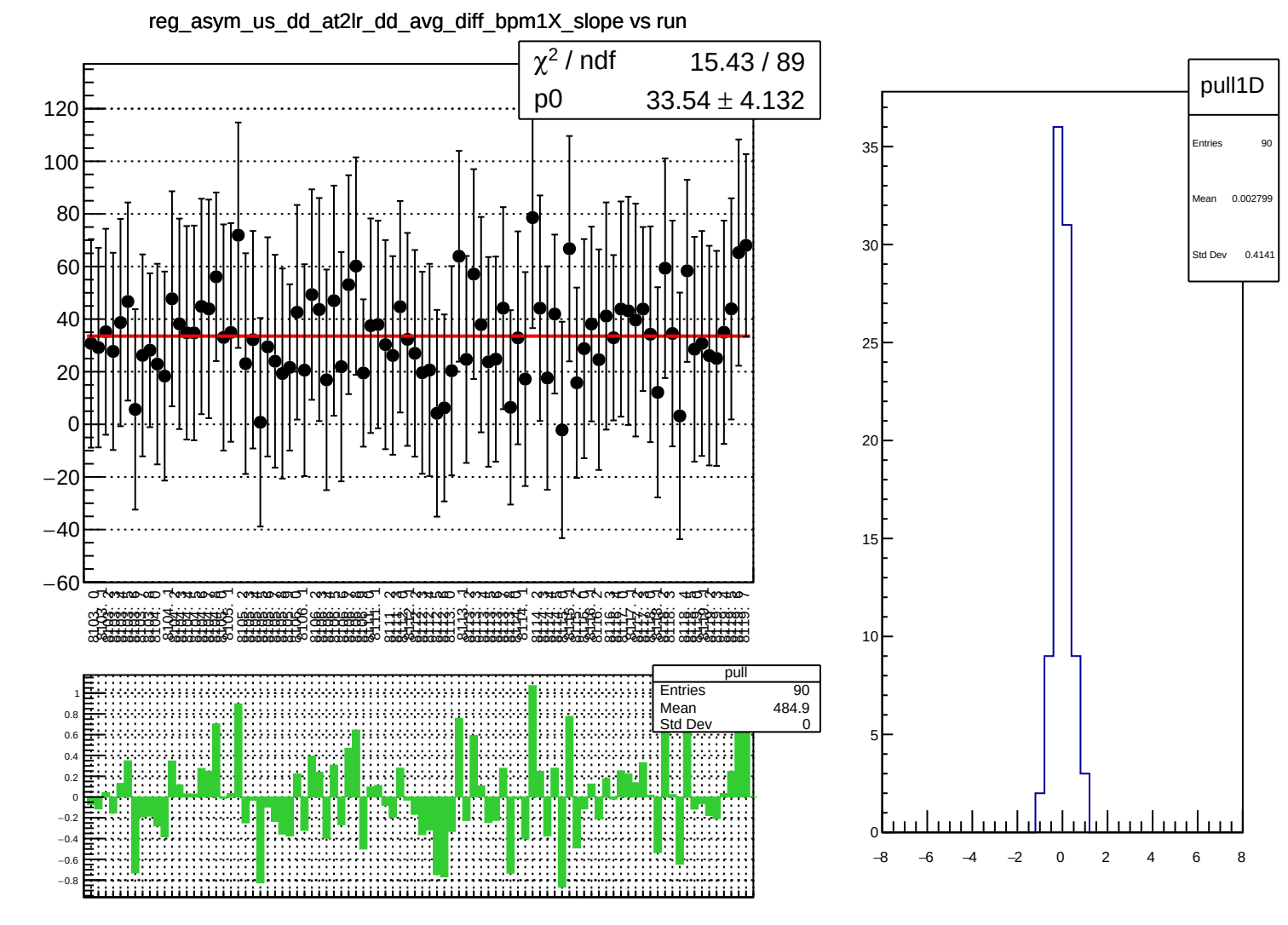

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.08 / 89
p0 −1.934 ± 3.293
pull
Entries 90
Mean 115.1
Std Dev 68.65
pull1D
Entries 90
Mean 0.01228
Std Dev 0.8823

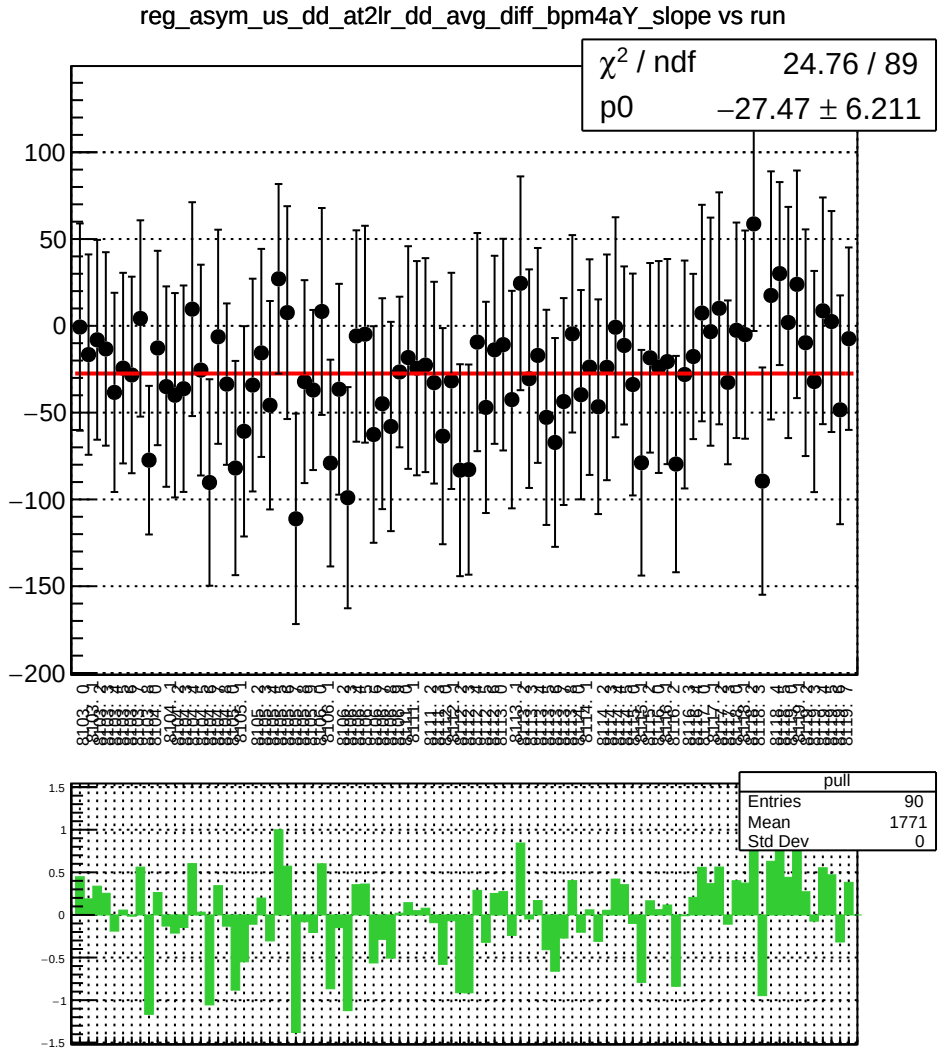

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.29 / 89
p0 −49.46 ± 2.084
pull
Entries 90
Mean −31.26
Std Dev 0
pull1D
Entries 90
Mean −0.01181
Std Dev 0.8899

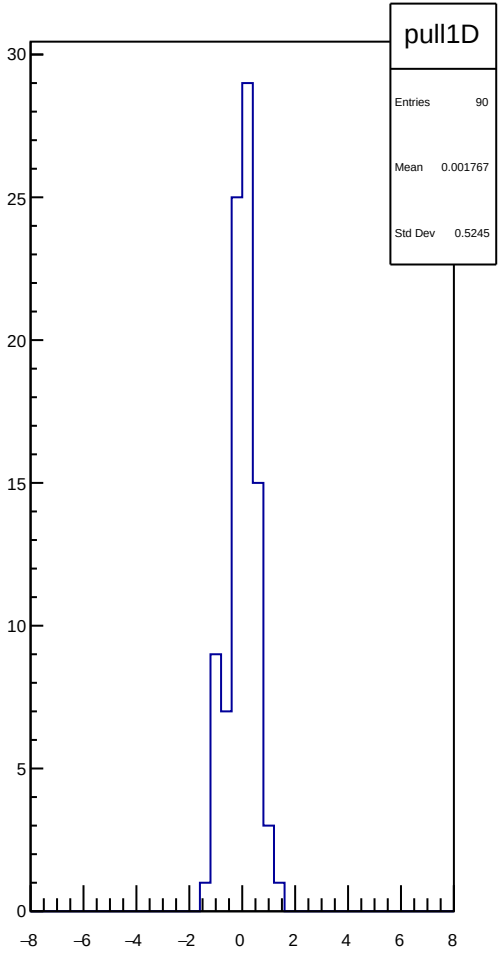

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.87 / 89
p0 12.53 ± 3.522
pull
Entries 90
Mean 121.3
Std Dev 66.11

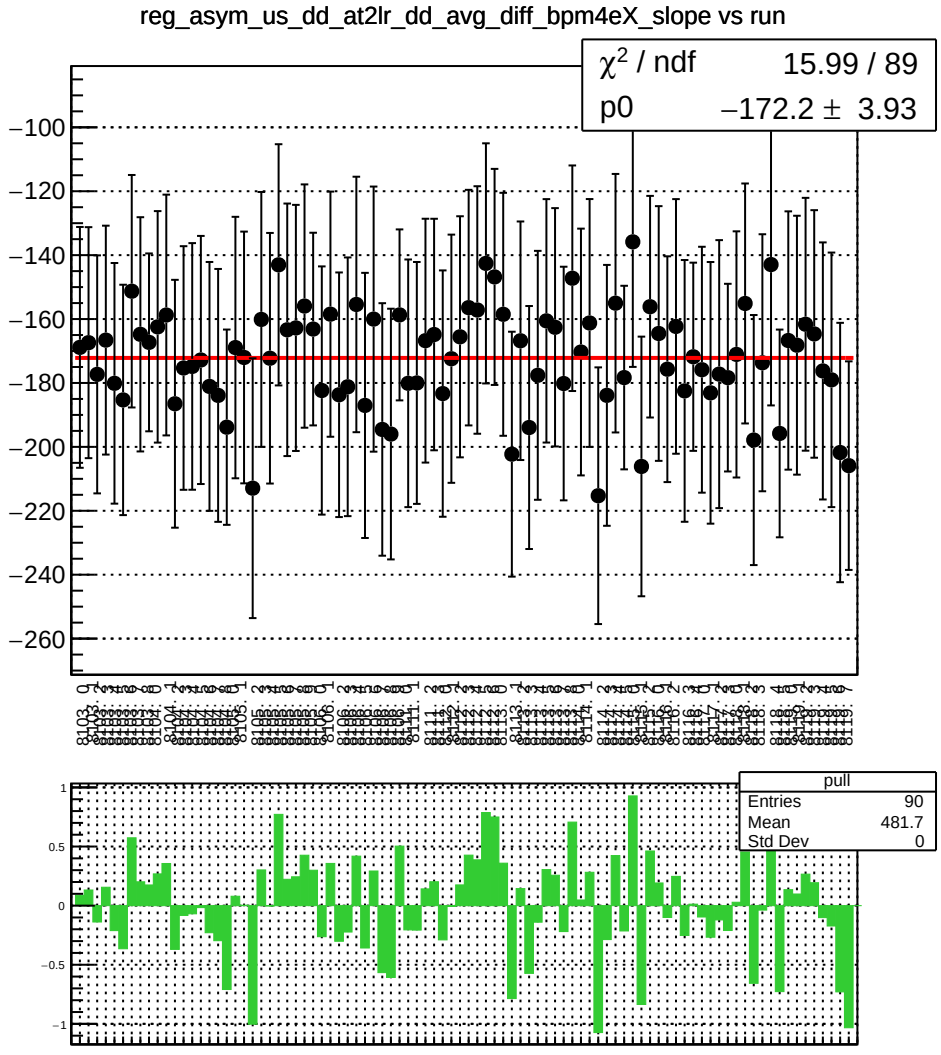

pull1D
Entries 90
Mean −0.01193
Std Dev 0.8873

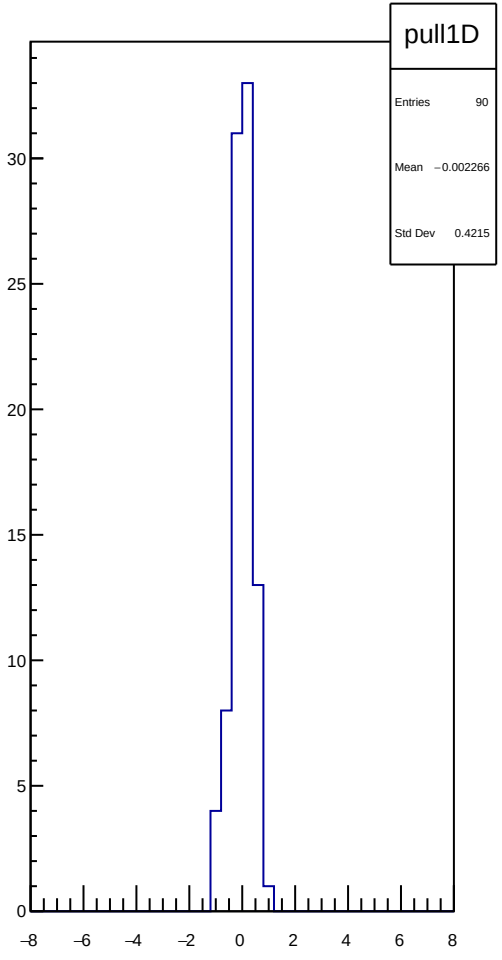

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 165.7 / 89
p0 −26.73 ± 0.1322
pull
Entries 90
Mean 1772
Std Dev 0
pull1D
Entries 90
Mean −0.00997
Std Dev 1.357

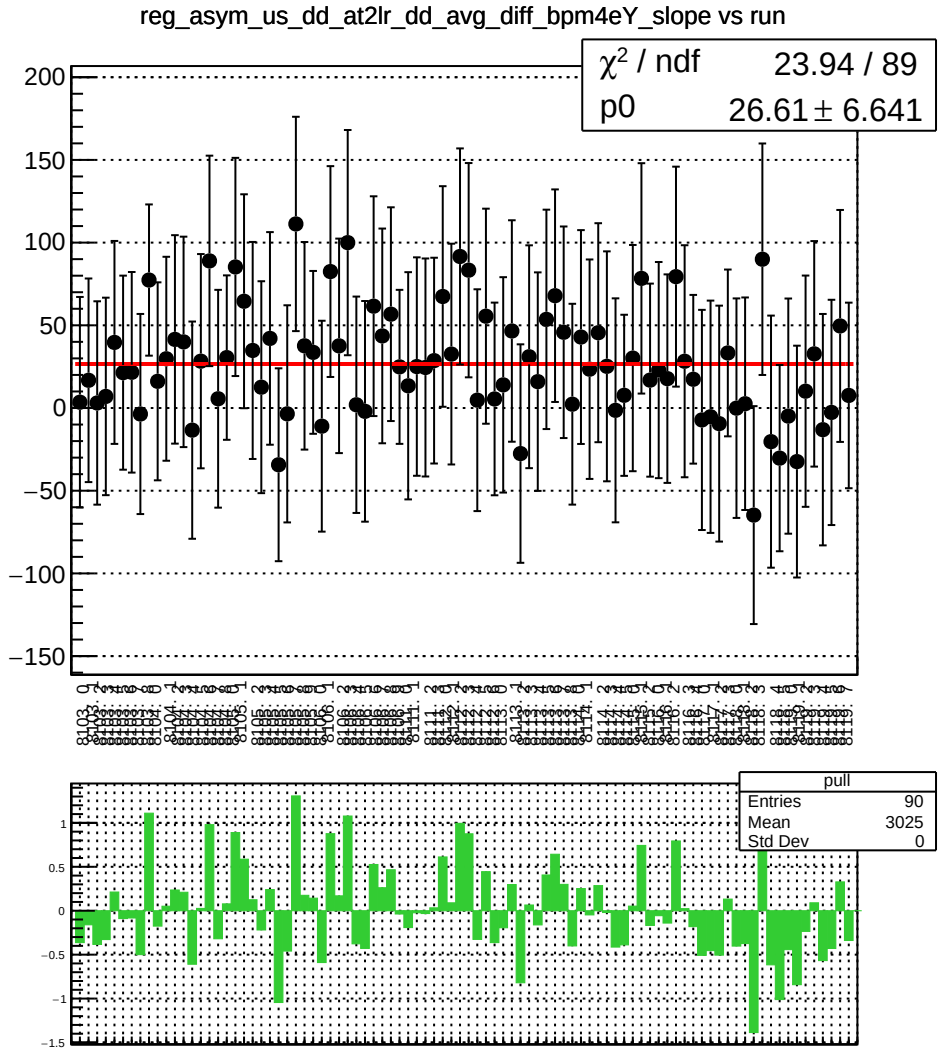

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 15.43 / 89
p0 33.54 ± 4.132
pull
Entries 90
Mean 484.9
Std Dev 0
pull1D
Entries 90
Mean 0.002799
Std Dev 0.4141

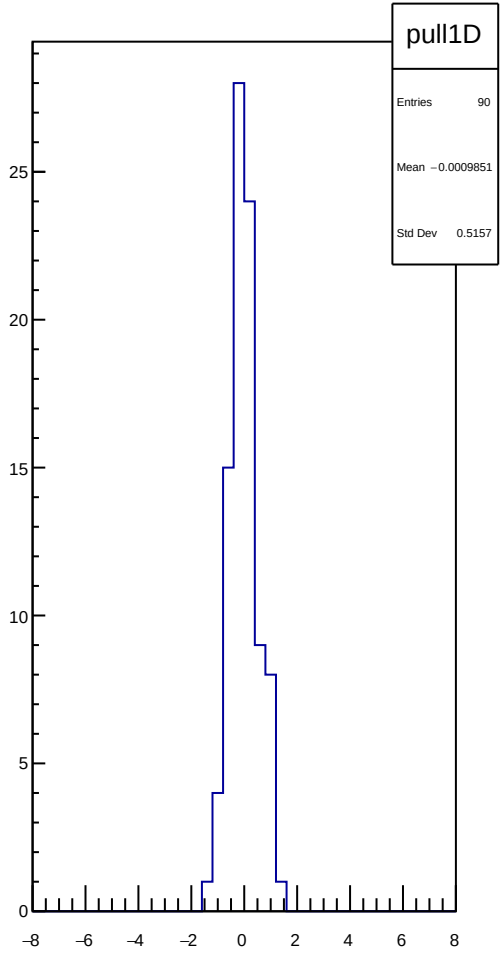

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.76 / 89
p0 −27.47 ± 6.211
pull
Entries 90
Mean 1771
Std Dev 0

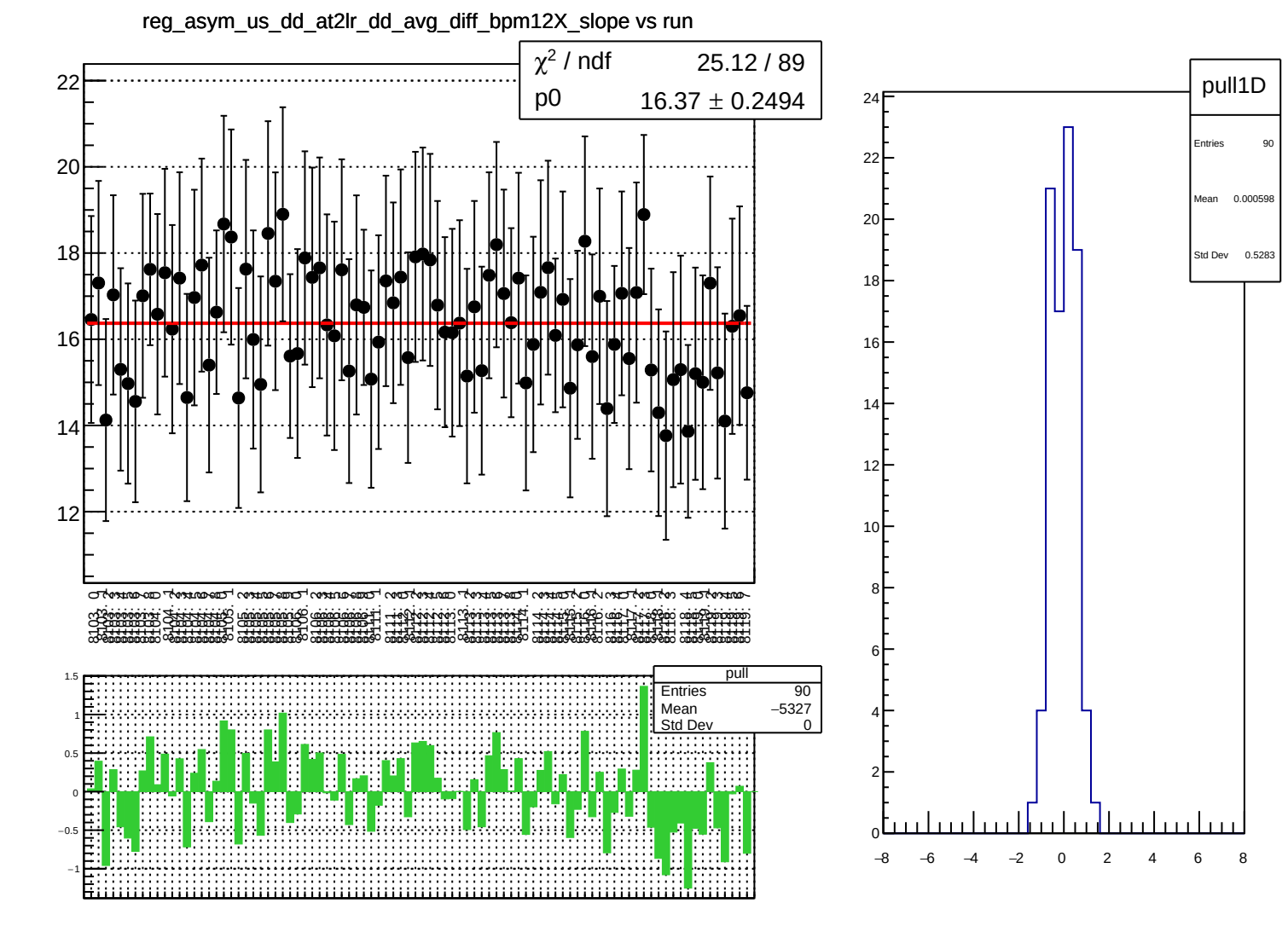

pull1D
Entries 90
Mean 0.001767
Std Dev 0.5245

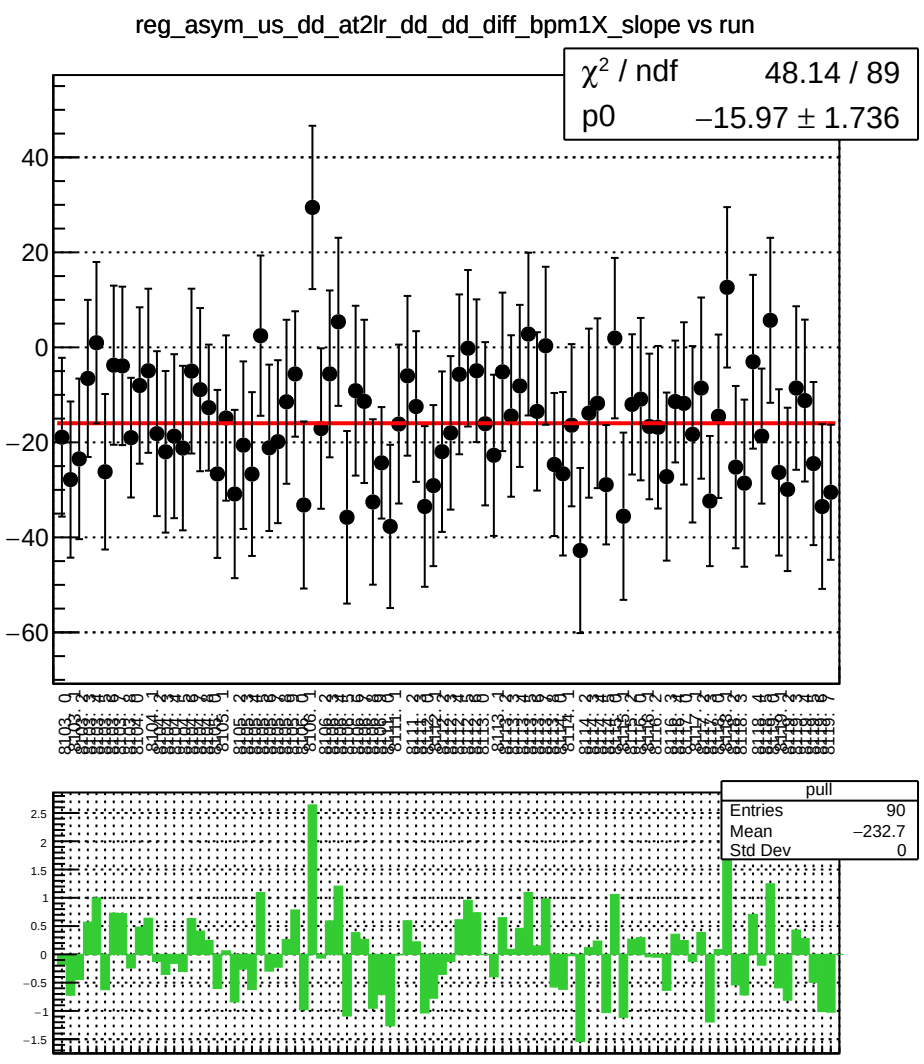

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.99 / 89
p0 −172.2 ± 3.93
pull
Entries 90
Mean 481.7
Std Dev 0

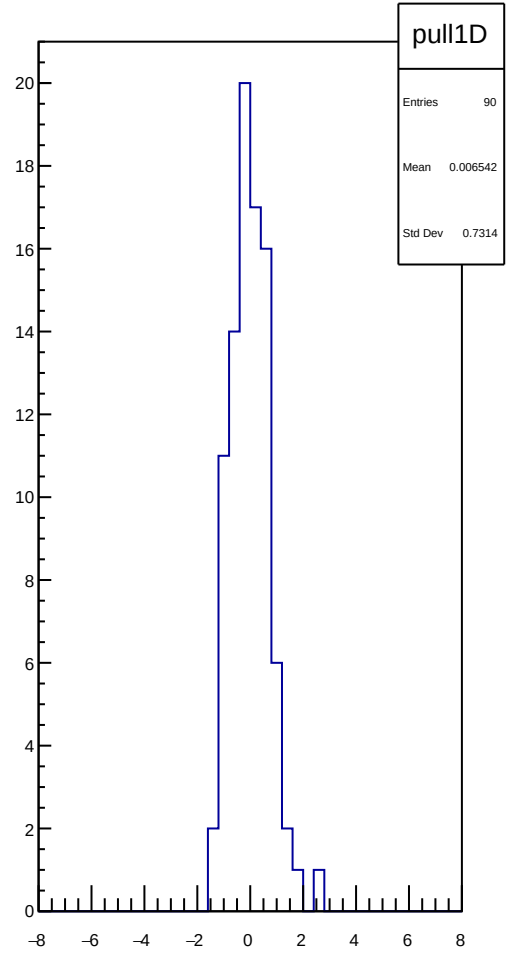

pull1D
Entries 90
Mean −0.002266
Std Dev 0.4215

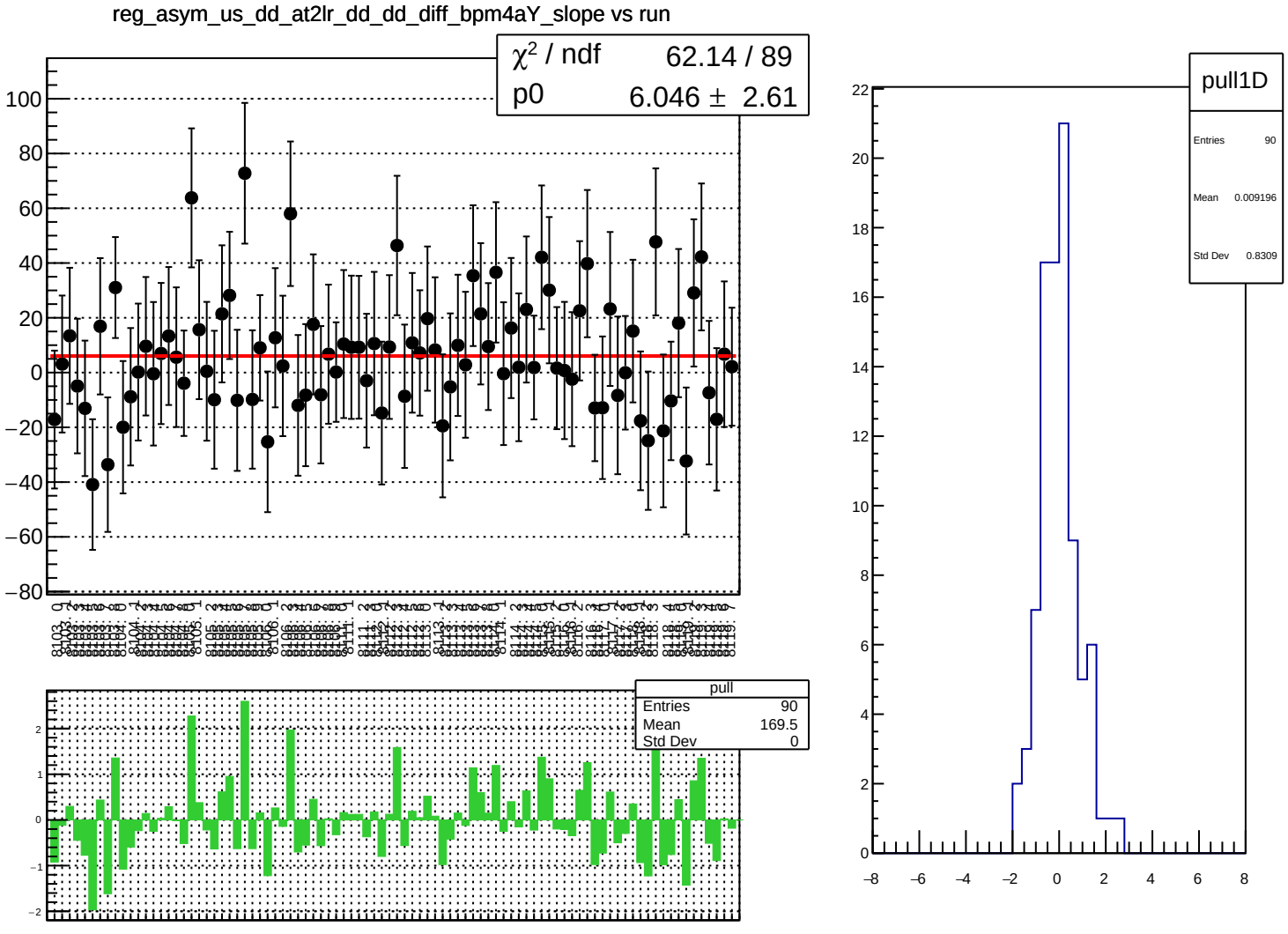

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.94 / 89
p0 26.61 ± 6.641
pull
Entries 90
Mean 3025
Std Dev 0

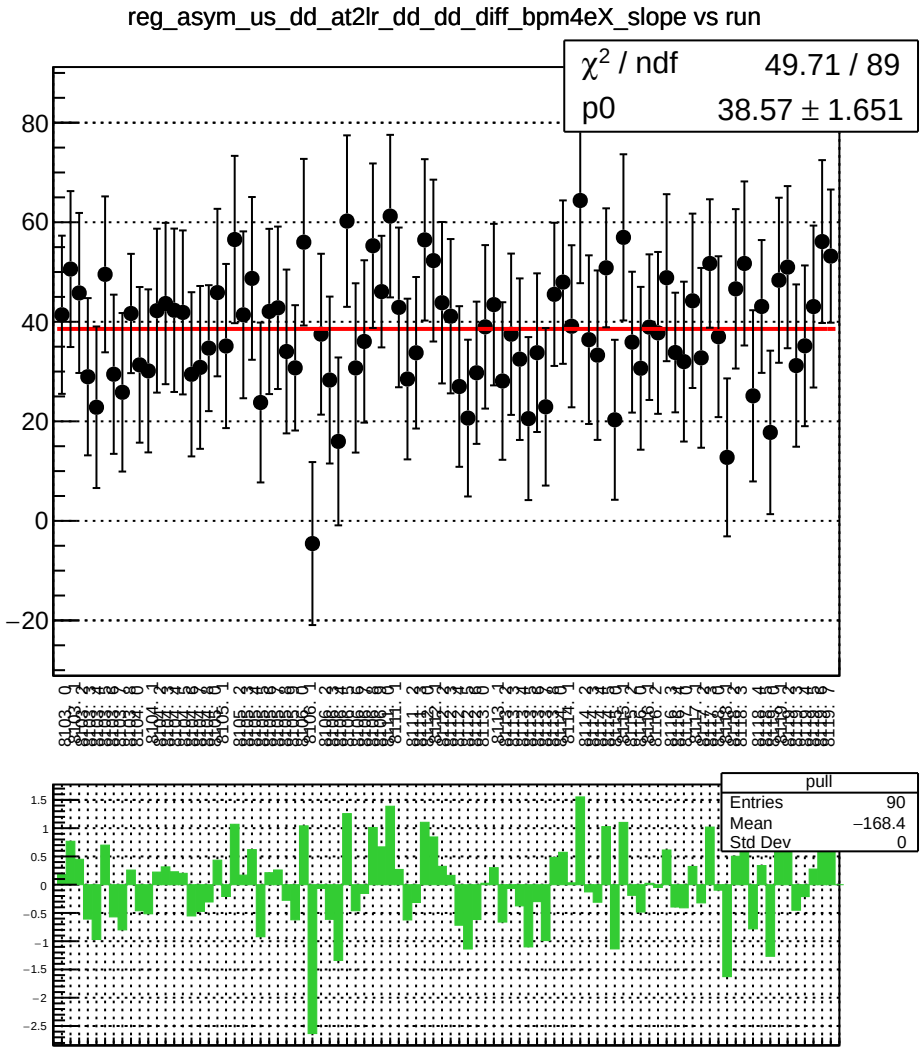

pull1D
Entries 90
Mean −0.0009851
Std Dev 0.5157

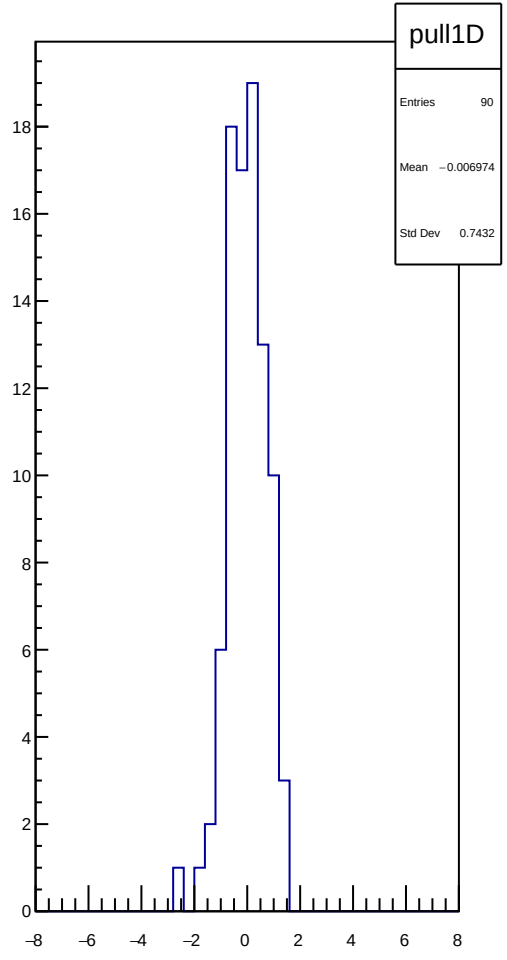

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 25.12 / 89
p0 16.37 ± 0.2494
pull
Entries 90
Mean −5327
Std Dev 0
pull1D
Entries 90
Mean 0.000598
Std Dev 0.5283

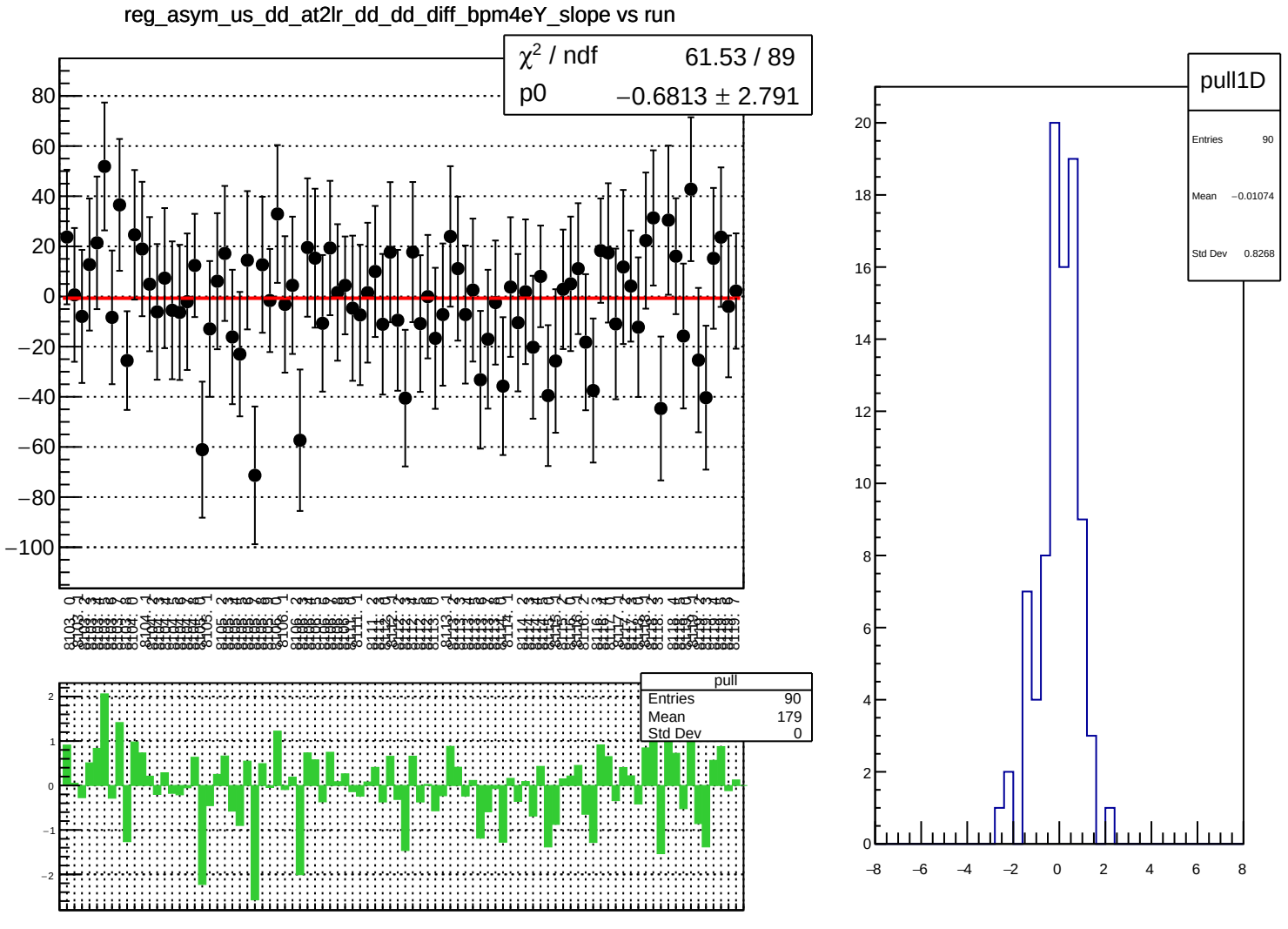

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 48.14 / 89
p0 −15.97 ± 1.736
pull
Entries 90
Mean −232.7
Std Dev 0

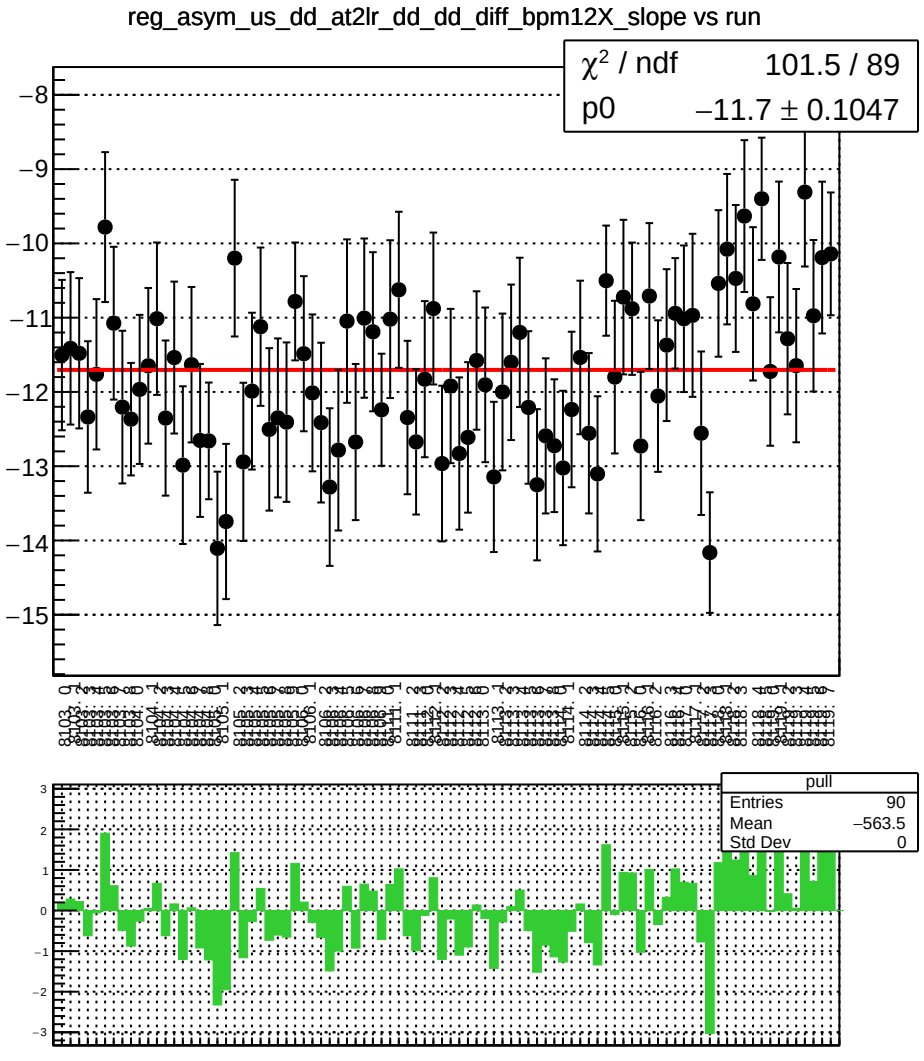

pull1D
Entries 90
Mean 0.006542
Std Dev 0.7314

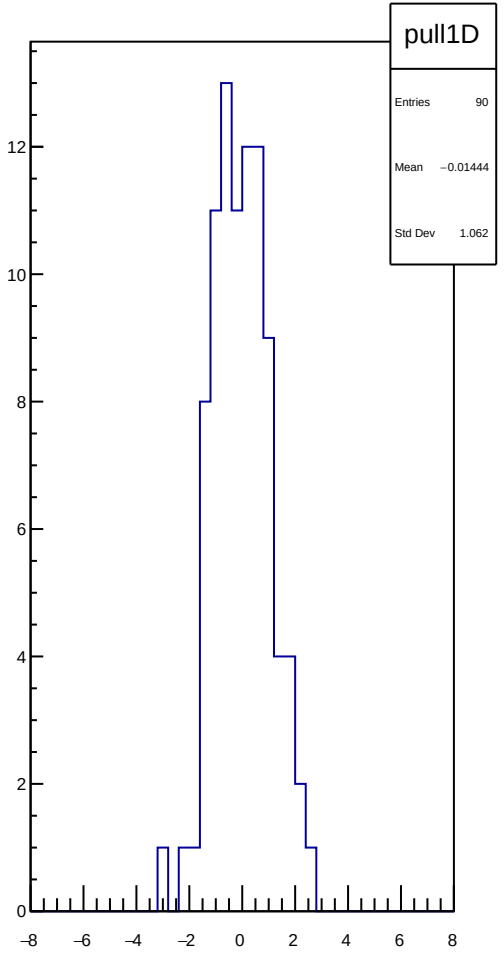

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.14 / 89
p0 6.046 ± 2.61
pull
Entries 90
Mean 169.5
Std Dev 0
pull1D
Entries 90
Mean 0.009196
Std Dev 0.8309

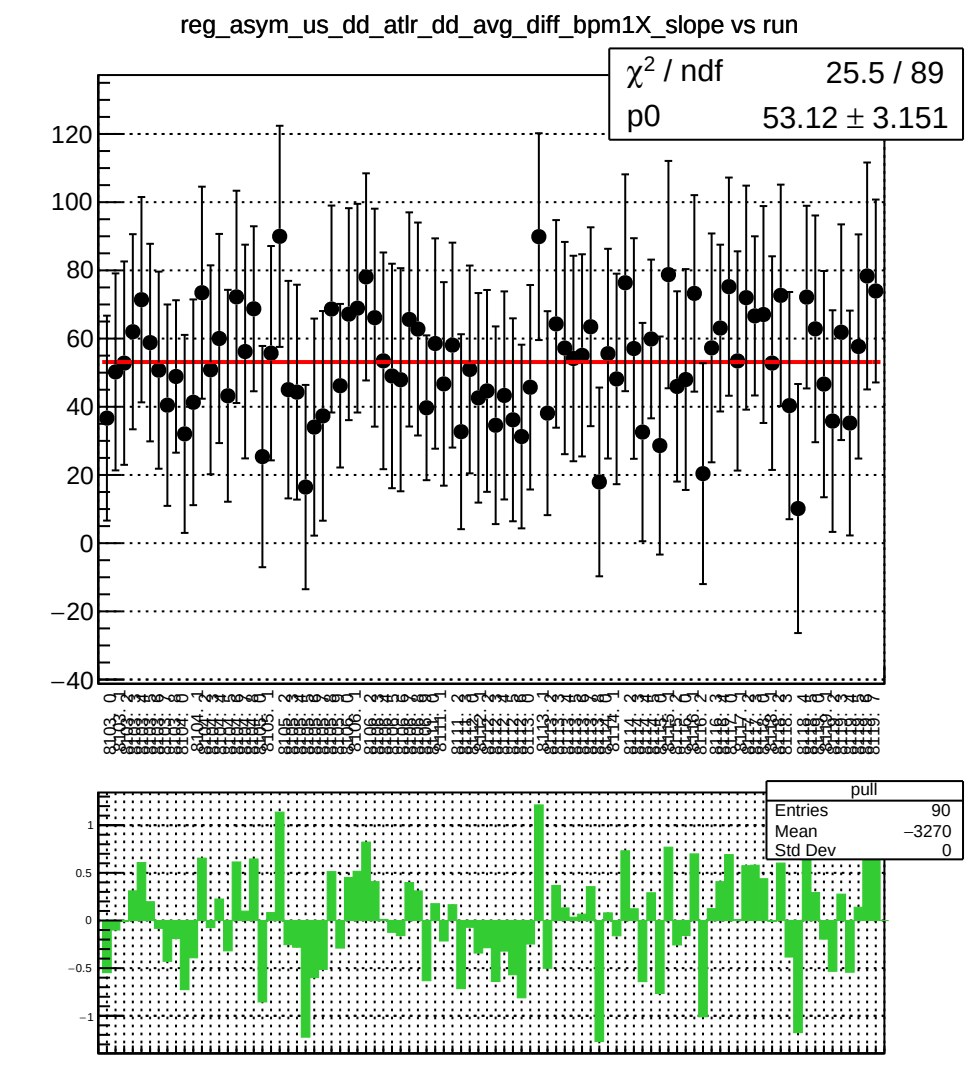

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.71 / 89
p0 38.57 ± 1.651
pull
Entries 90
Mean −168.4
Std Dev 0

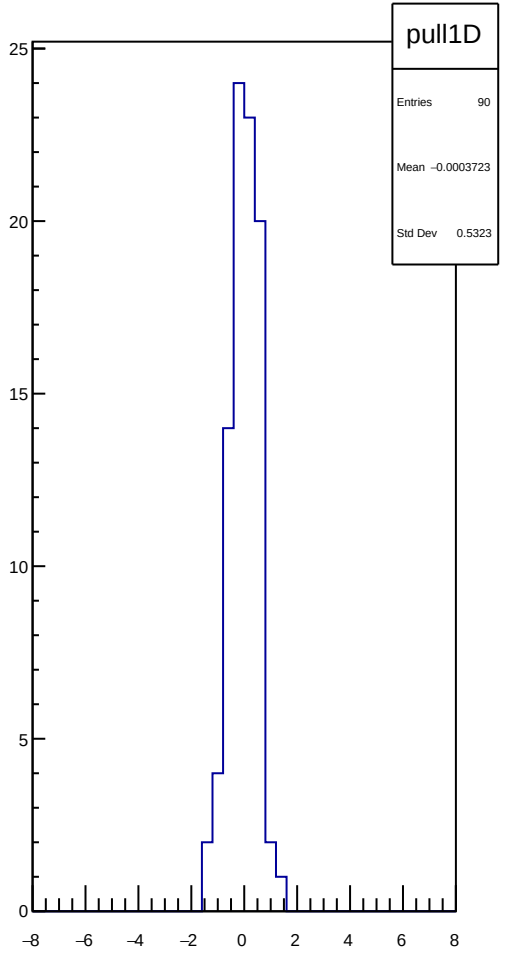

pull1D
Entries 90
Mean −0.006974
Std Dev 0.7432

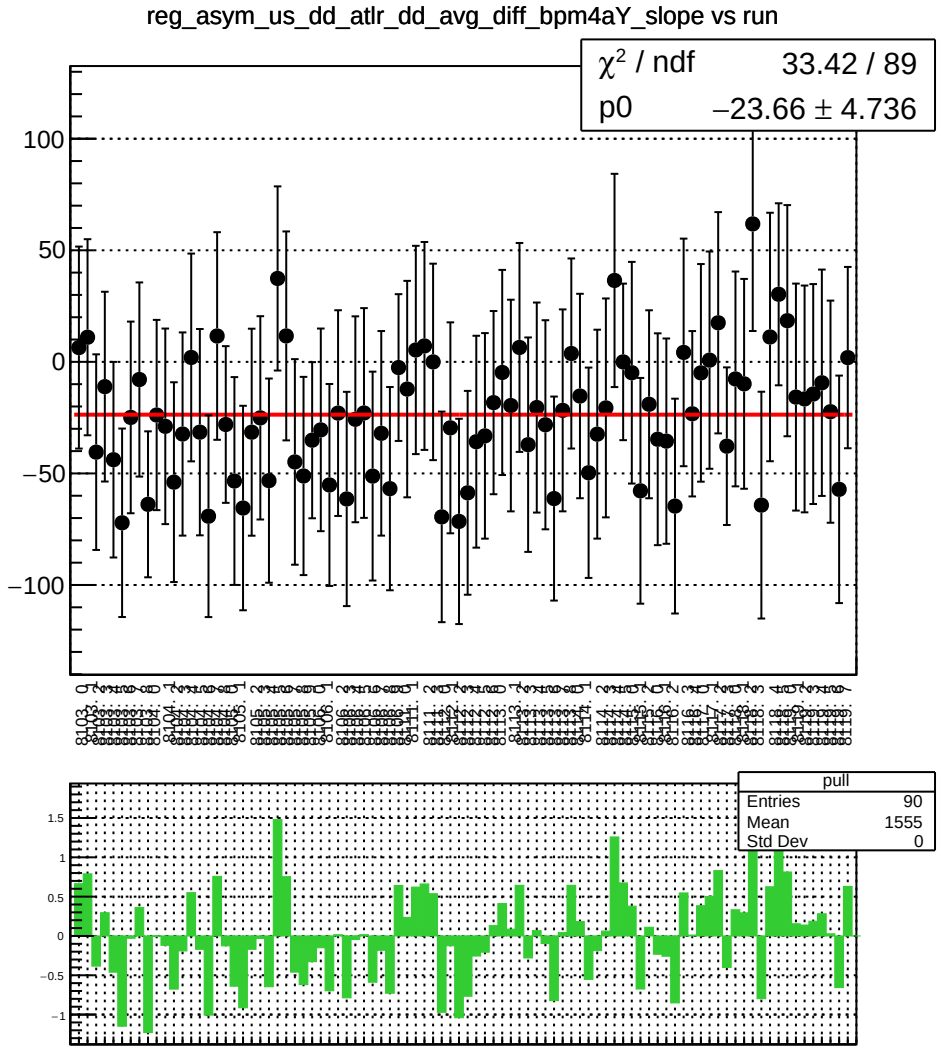

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.53 / 89
p0 −0.6813 ± 2.791
pull
Entries 90
Mean 179
Std Dev 0
pull1D
Entries 90
Mean −0.01074
Std Dev 0.8268

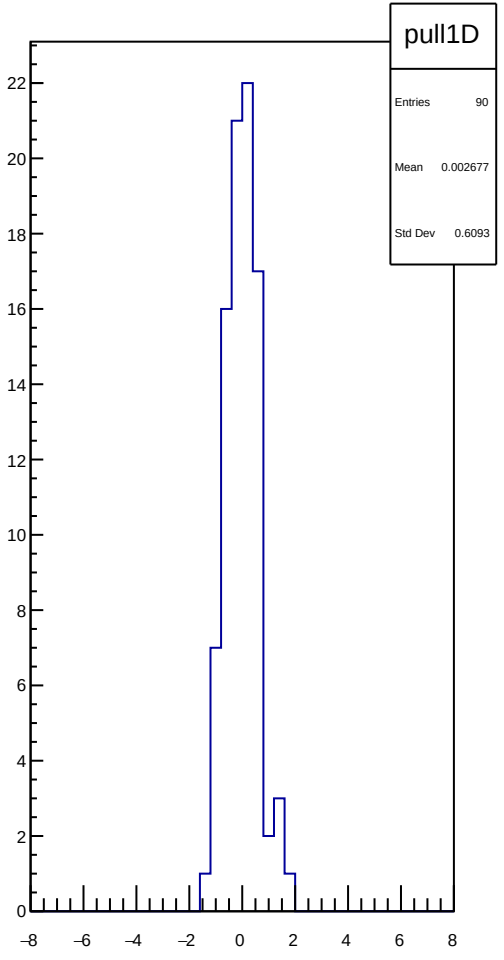

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 101.5 / 89
p0 −11.7 ± 0.1047
pull
Entries 90
Mean −563.5
Std Dev 0

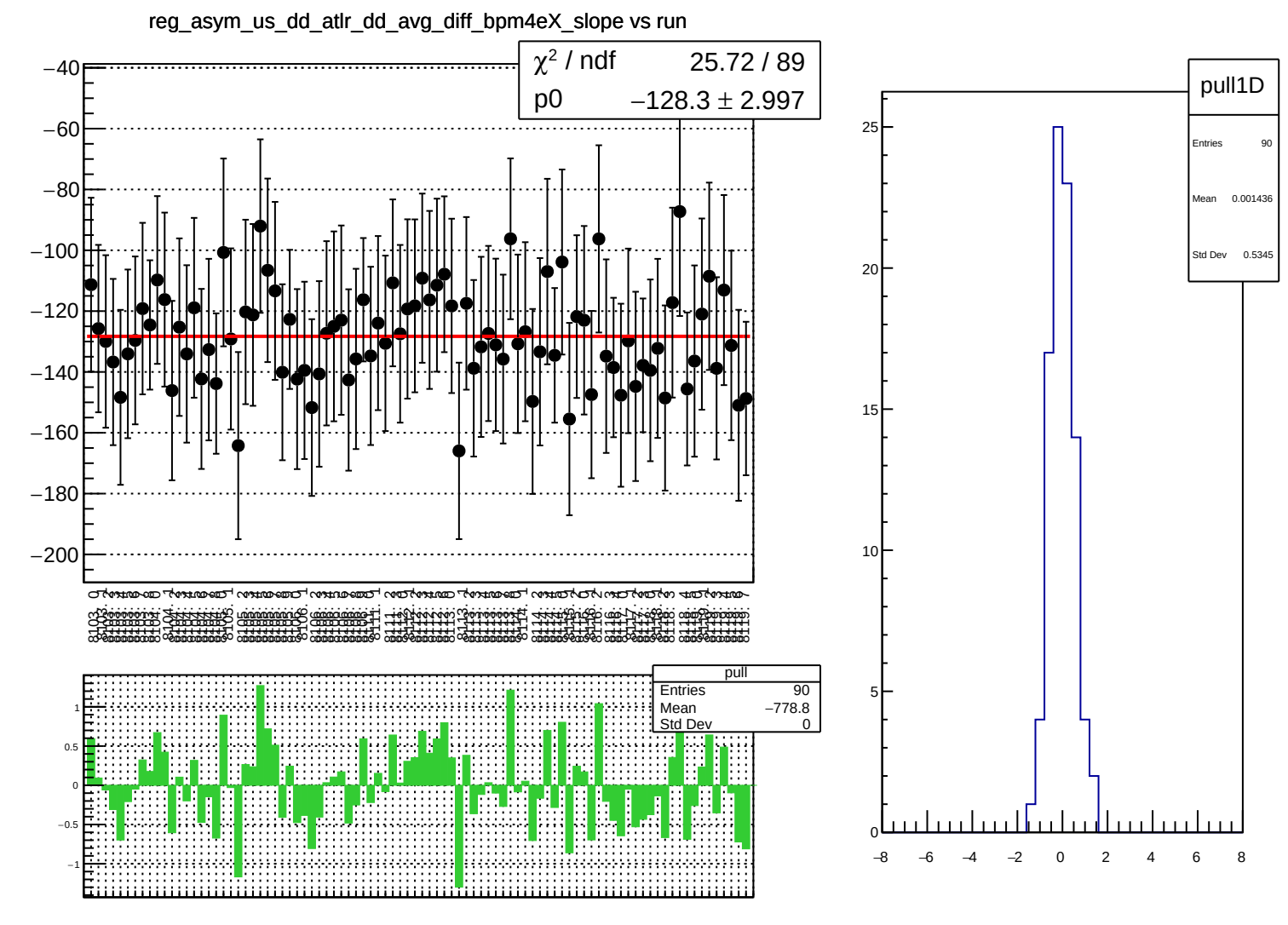

pull1D
Entries 90
Mean −0.01444
Std Dev 1.062

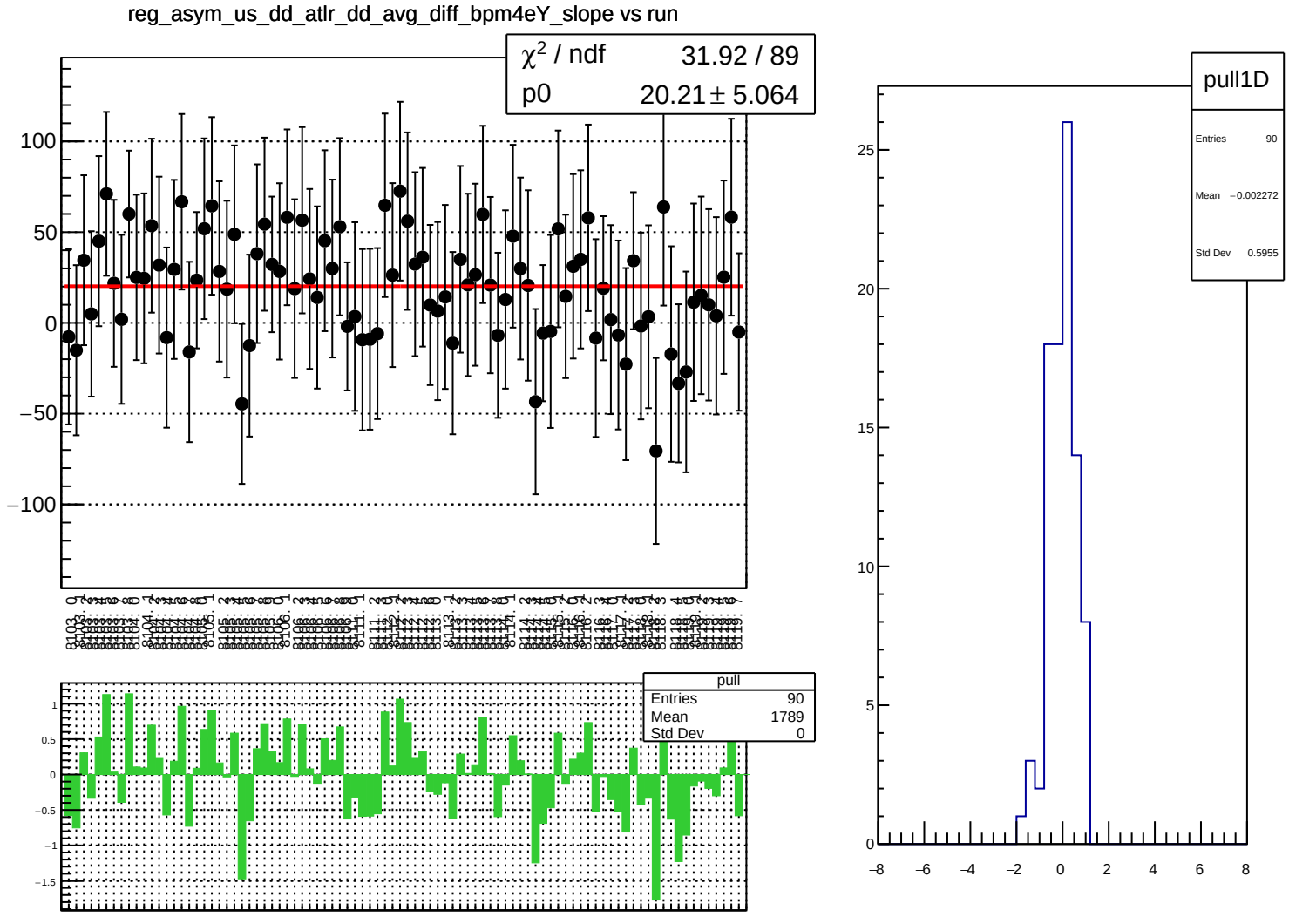

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 25.5 / 89
p0 53.12 ± 3.151
pull
Entries 90
Mean −3270
Std Dev 0

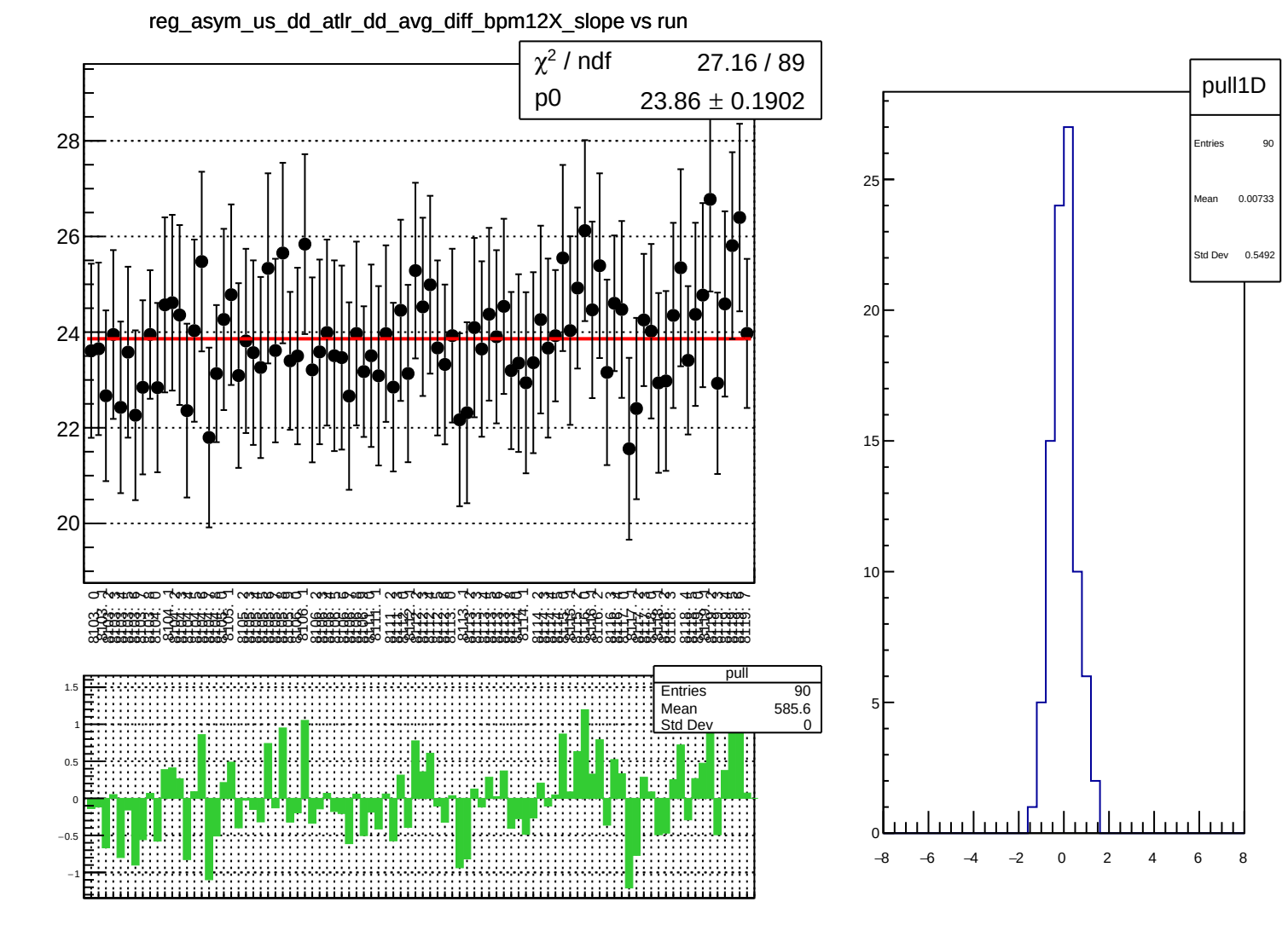

pull1D
Entries 90
Mean −0.0003723
Std Dev 0.5323

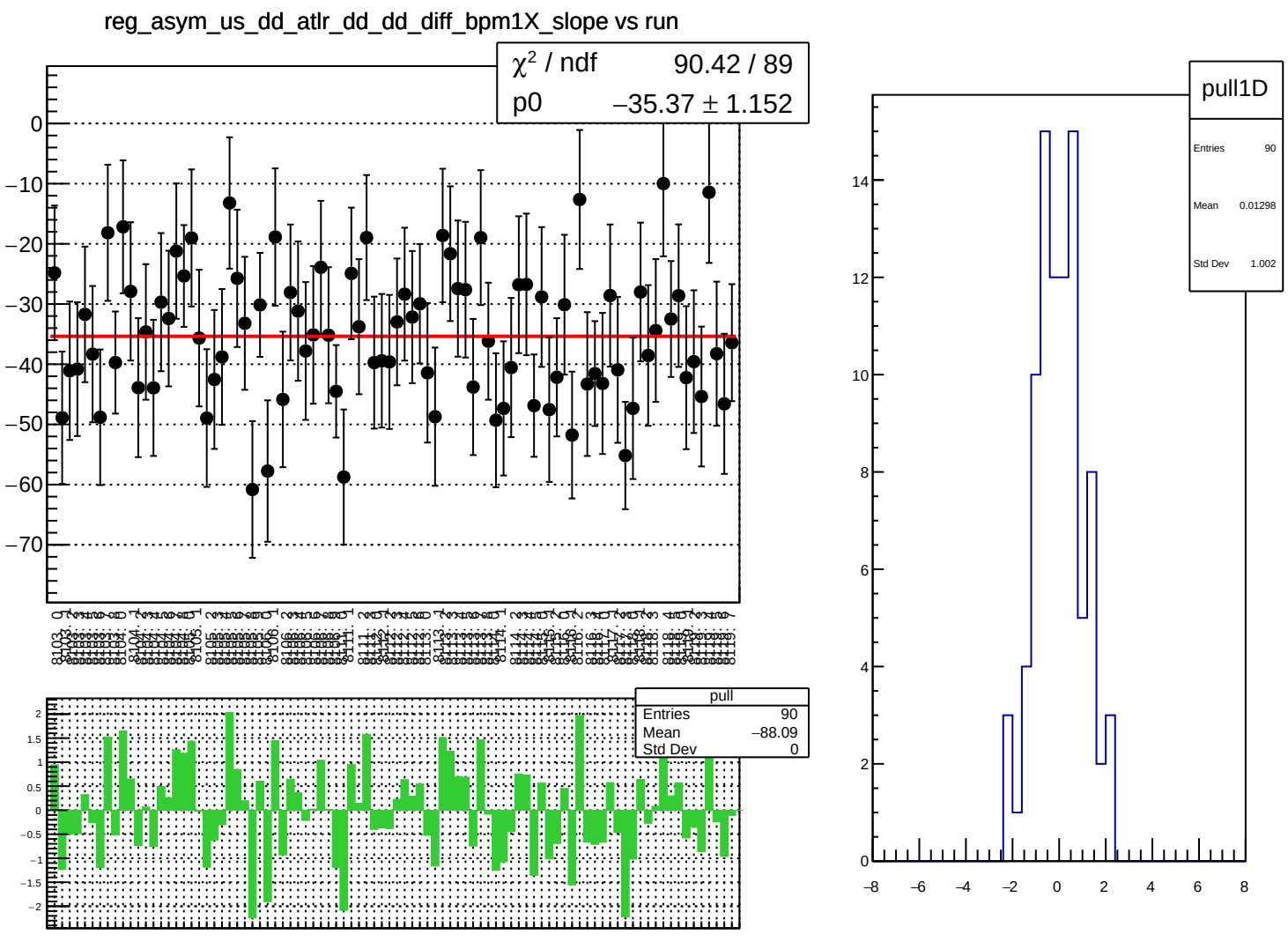

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.42 / 89
p0 −23.66 ± 4.736
pull
Entries 90
Mean 1555
Std Dev 0

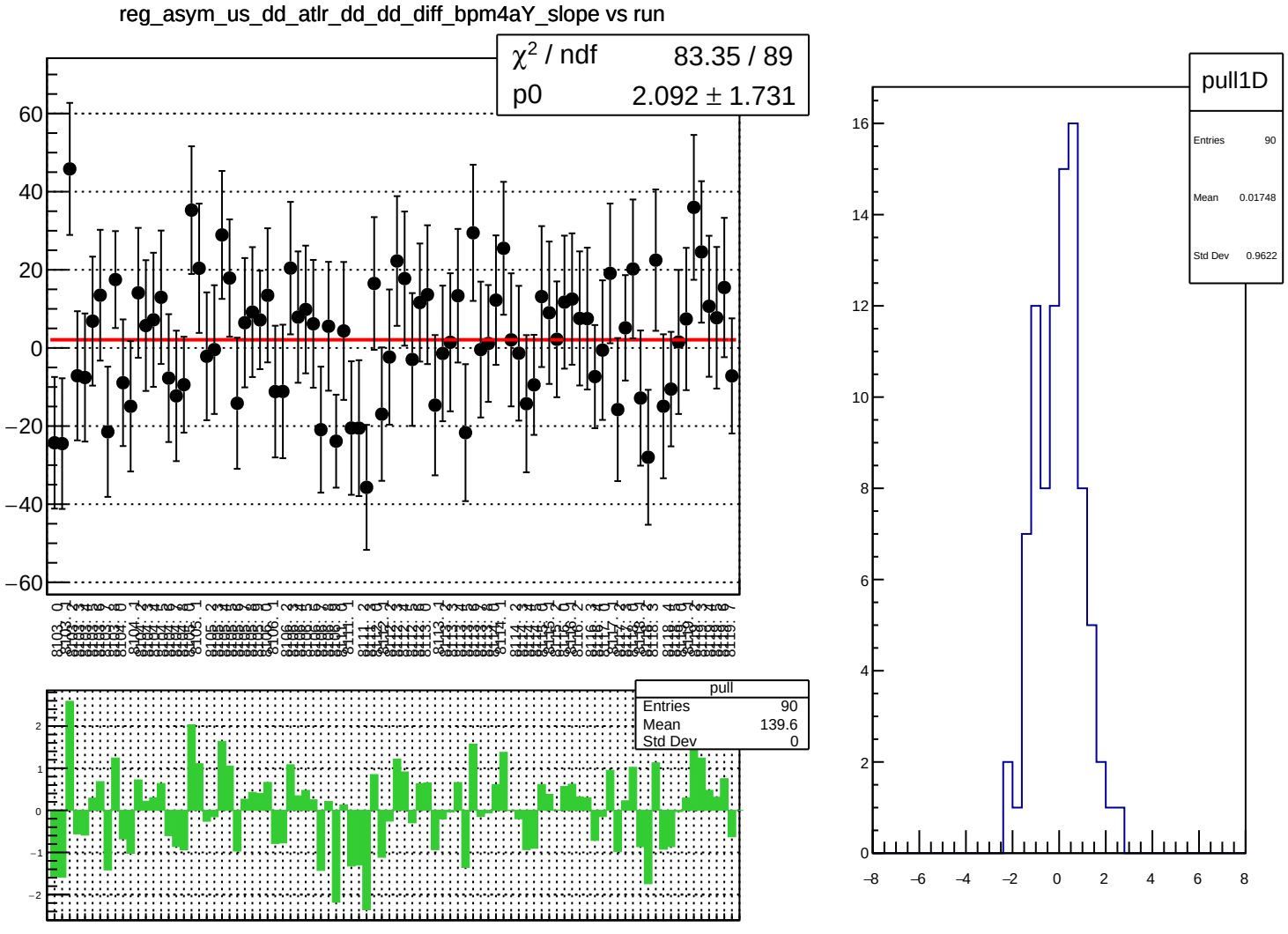

pull1D
Entries 90
Mean 0.002677
Std Dev 0.6093

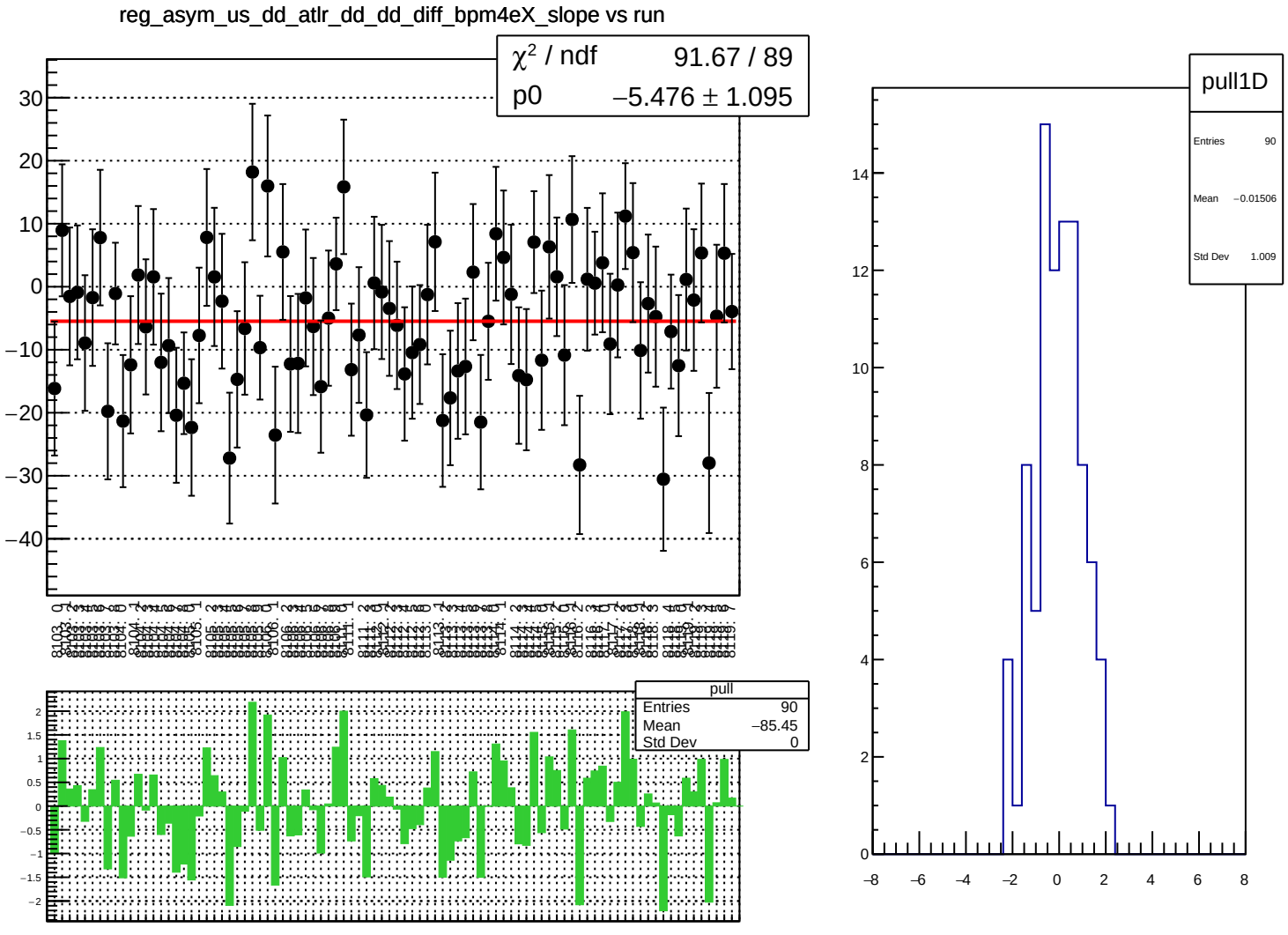

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.72 / 89
p0 −128.3 ± 2.997
pull
Entries 90
Mean −778.8
Std Dev 0
pull1D
Entries 90
Mean 0.001436
Std Dev 0.5345

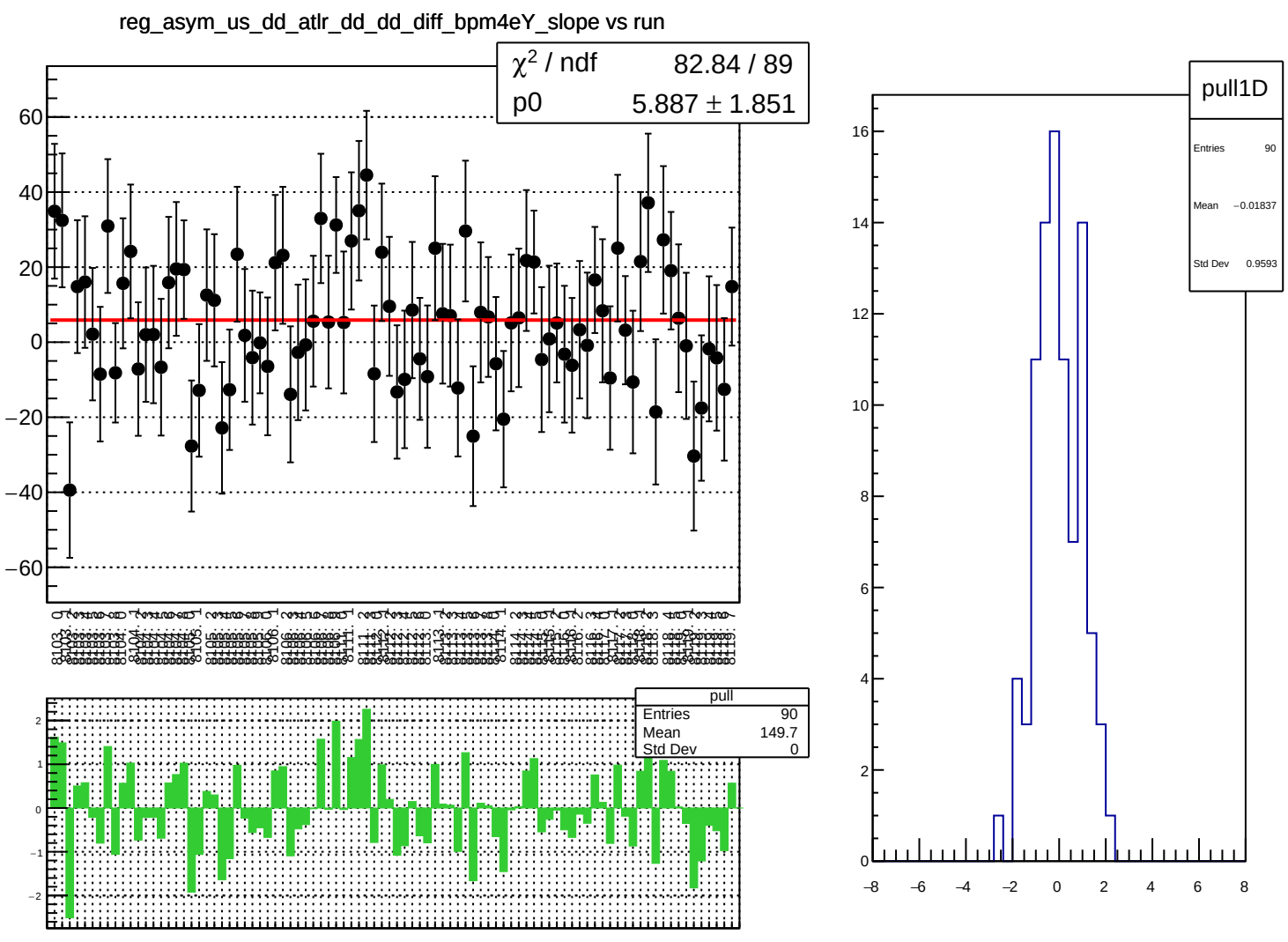

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.92 / 89
p0 20.21 ± 5.064
100
50
0
−50
−100
pull
Entries 90
Mean 1789
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 90
Mean −0.002272
Std Dev 0.5955
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

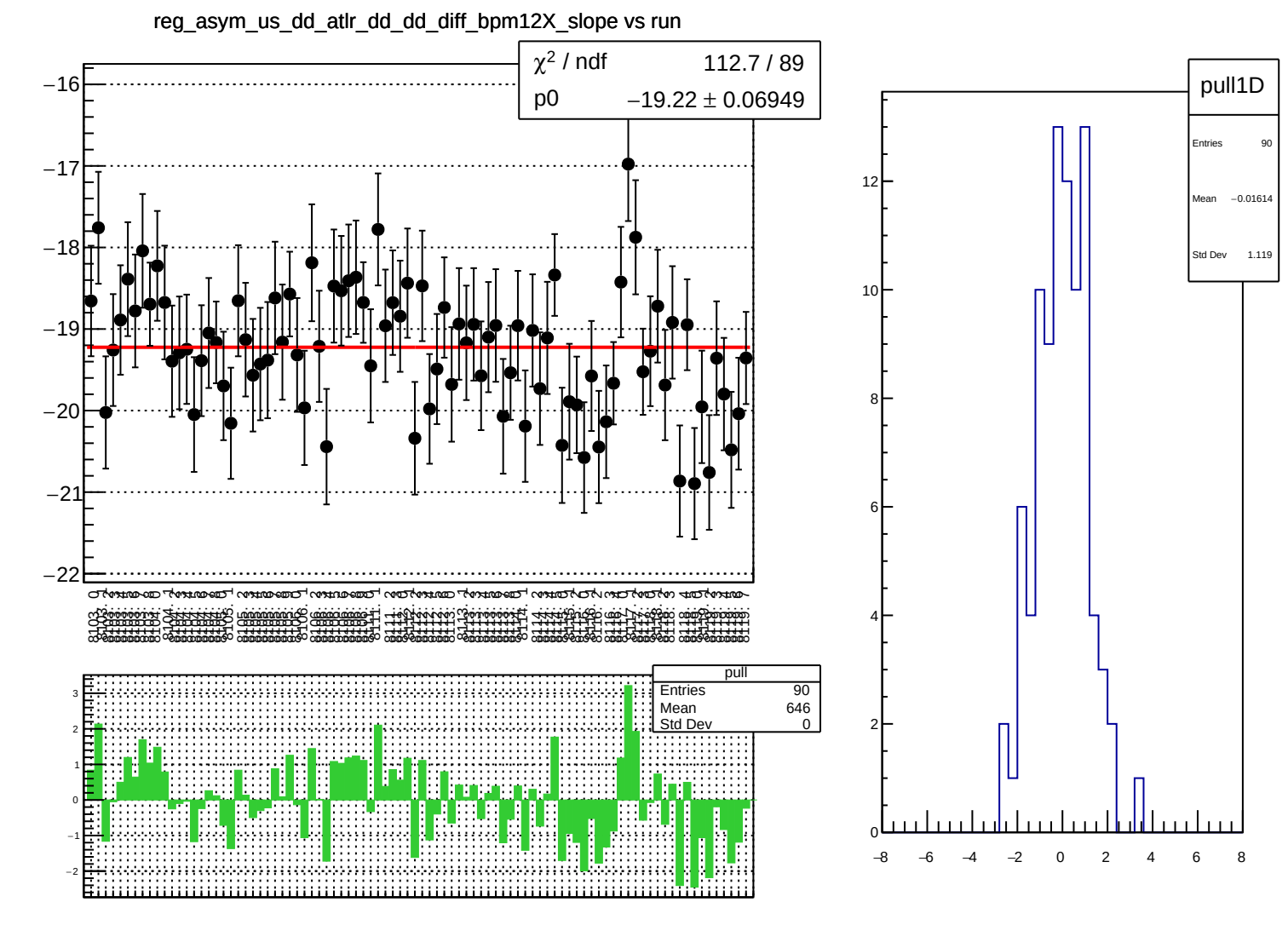

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 27.16 / 89
p0 23.86 ± 0.1902
pull
Entries 90
Mean 585.6
Std Dev 0
pull1D
Entries 90
Mean 0.00733
Std Dev 0.5492

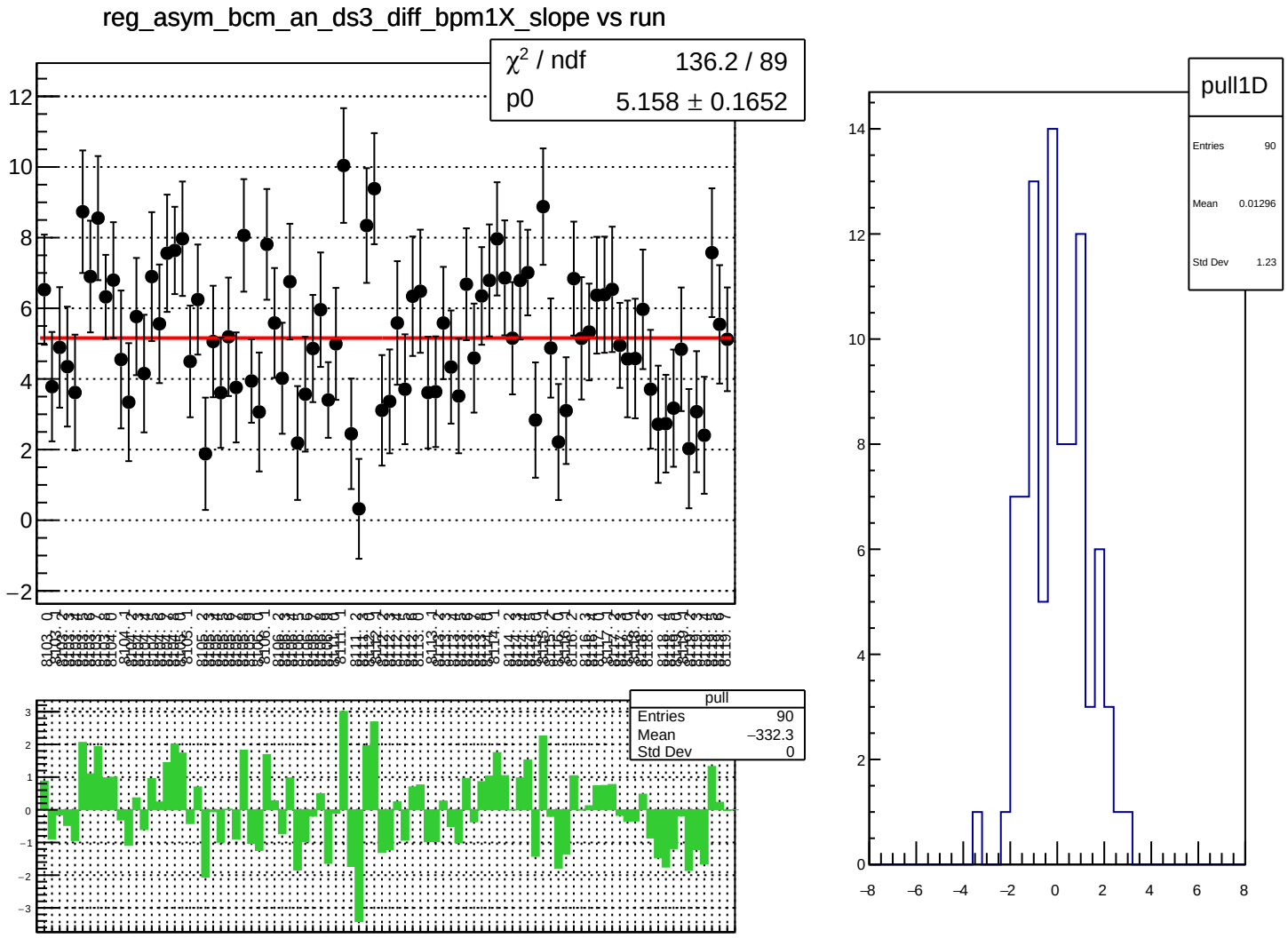

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 90.42 / 89
p0 −35.37 ± 1.152
pull
Entries 90
Mean −88.09
Std Dev 0
pull1D
Entries 90
Mean 0.01298
Std Dev 1.002

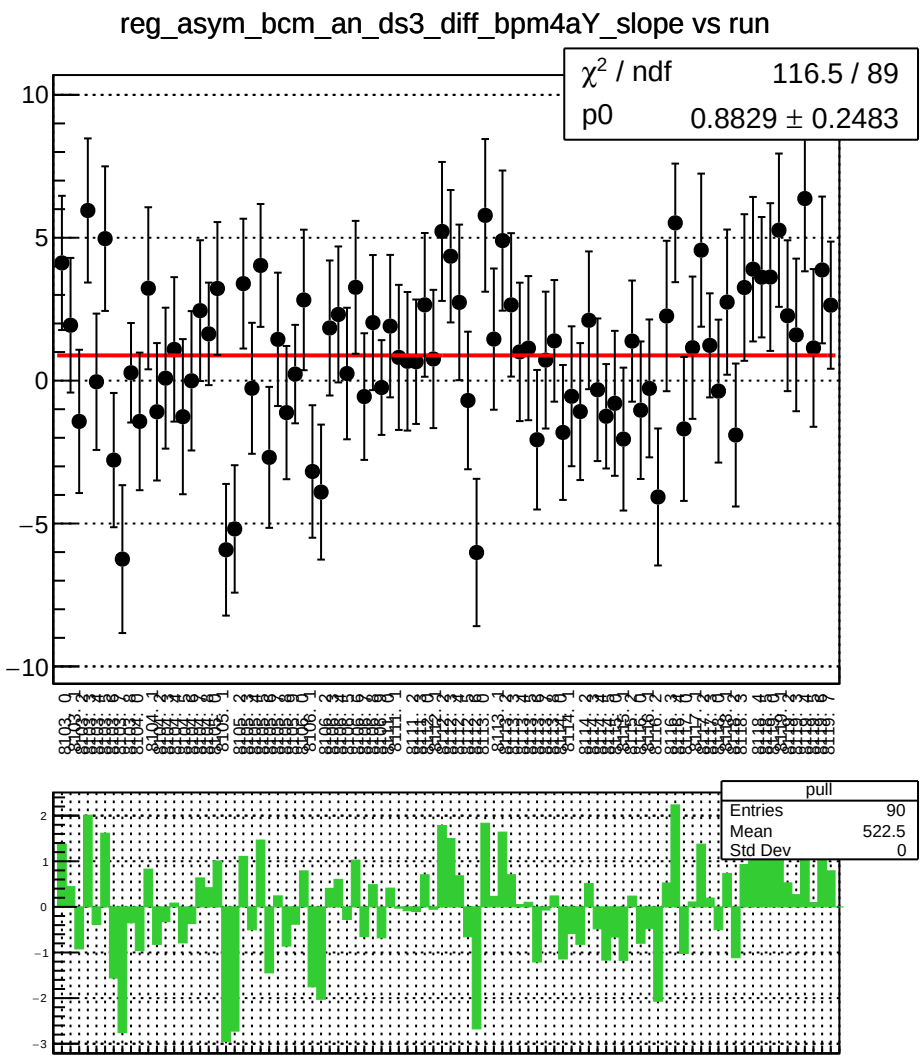

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.35 / 89
p0 2.092 ± 1.731
pull
Entries 90
Mean 139.6
Std Dev 0
pull1D
Entries 90
Mean 0.01748
Std Dev 0.9622

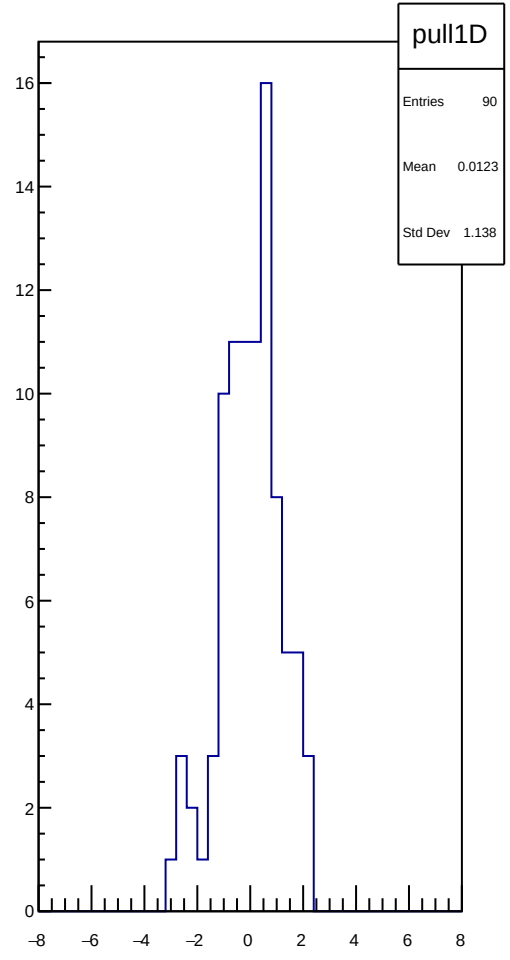

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.67 / 89
p0 −5.476 ± 1.095
pull
Entries 90
Mean −85.45
Std Dev 0
pull1D
Entries 90
Mean −0.01506
Std Dev 1.009

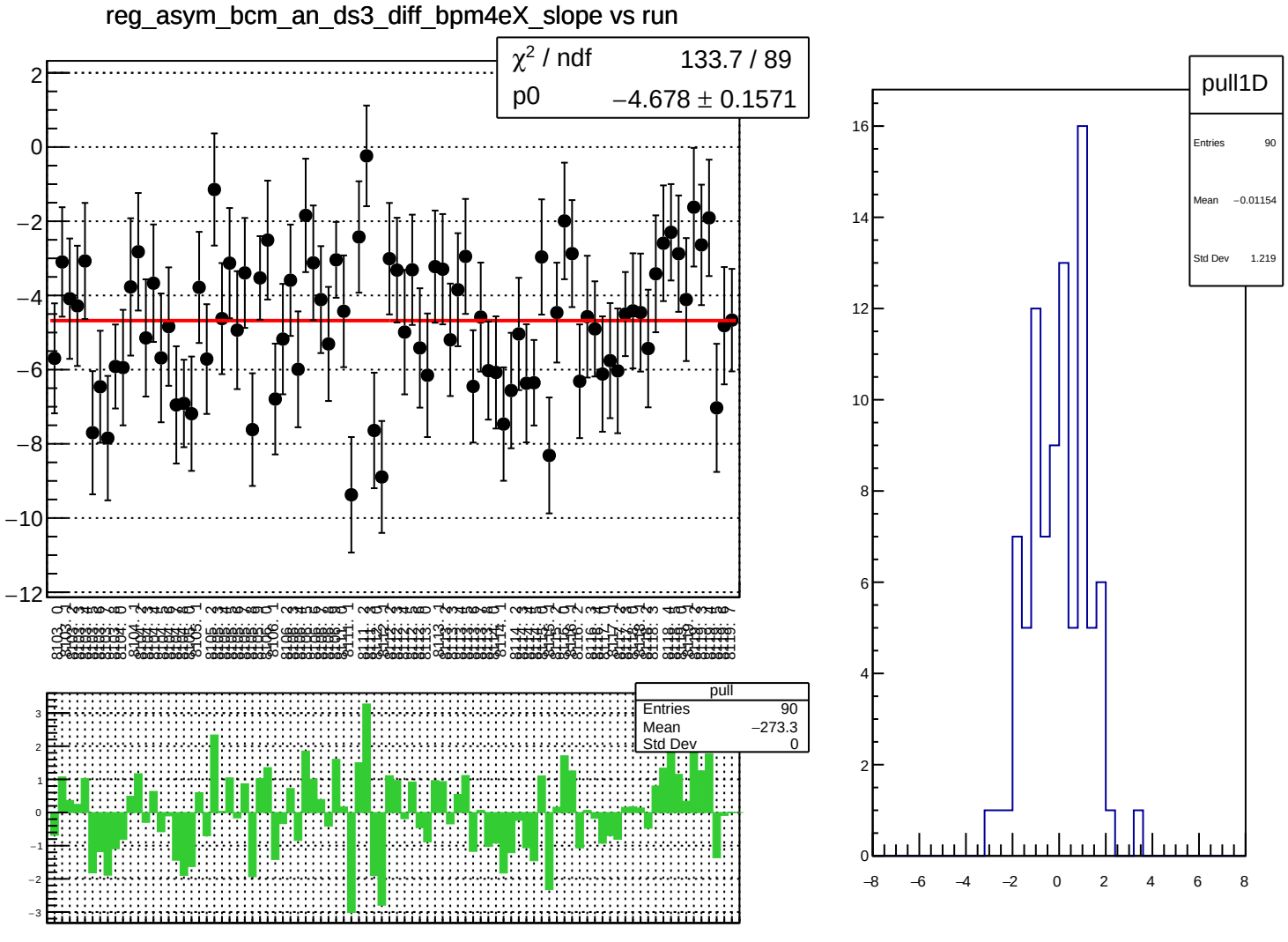

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.84 / 89
p0 5.887 ± 1.851
pull
Entries 90
Mean 149.7
Std Dev 0
pull1D
Entries 90
Mean −0.01837
Std Dev 0.9593

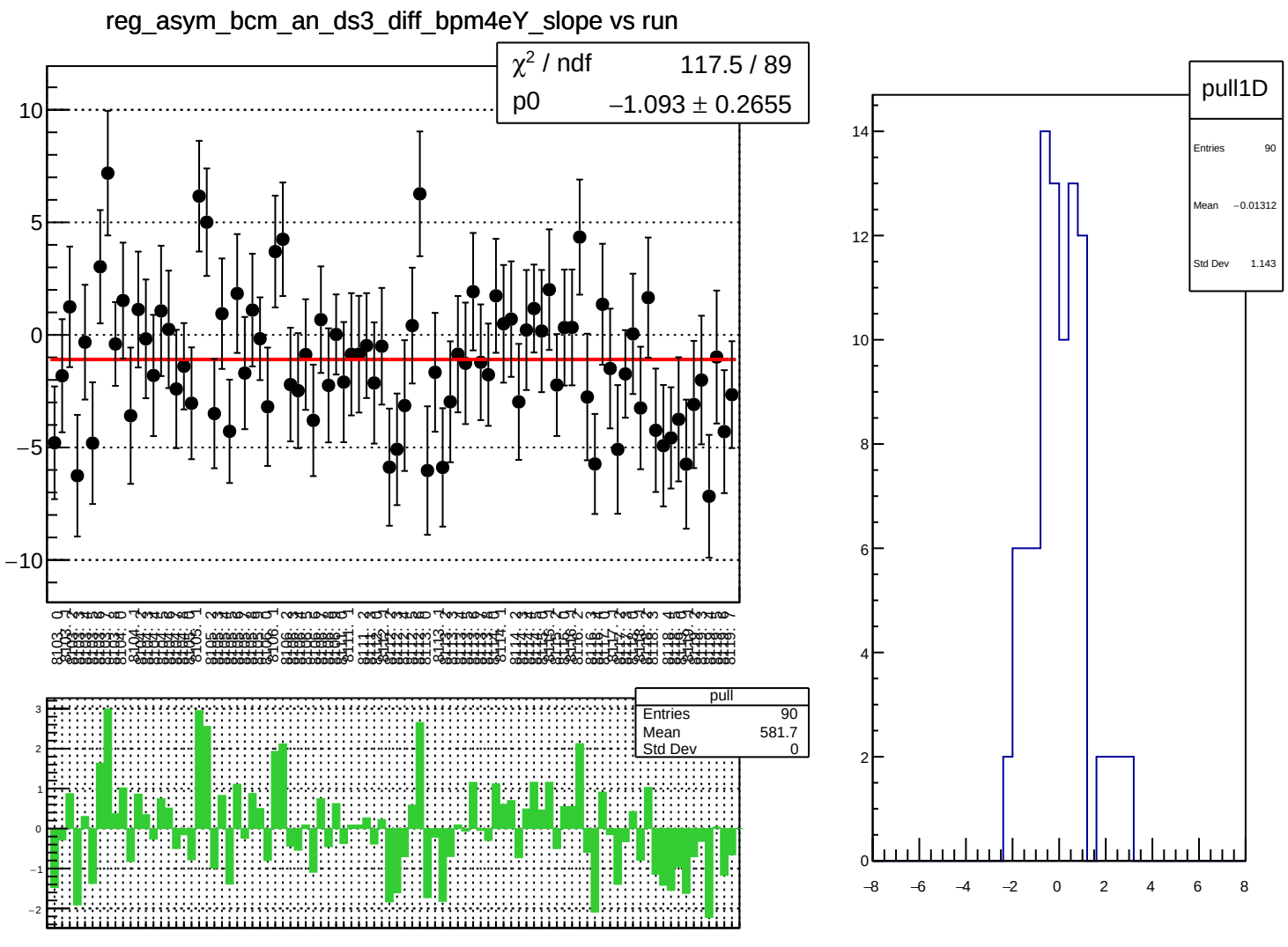

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 112.7 / 89
p0 −19.22 ± 0.06949
pull
Entries 90
Mean 646
Std Dev 0
pull1D
Entries 90
Mean −0.01614
Std Dev 1.119

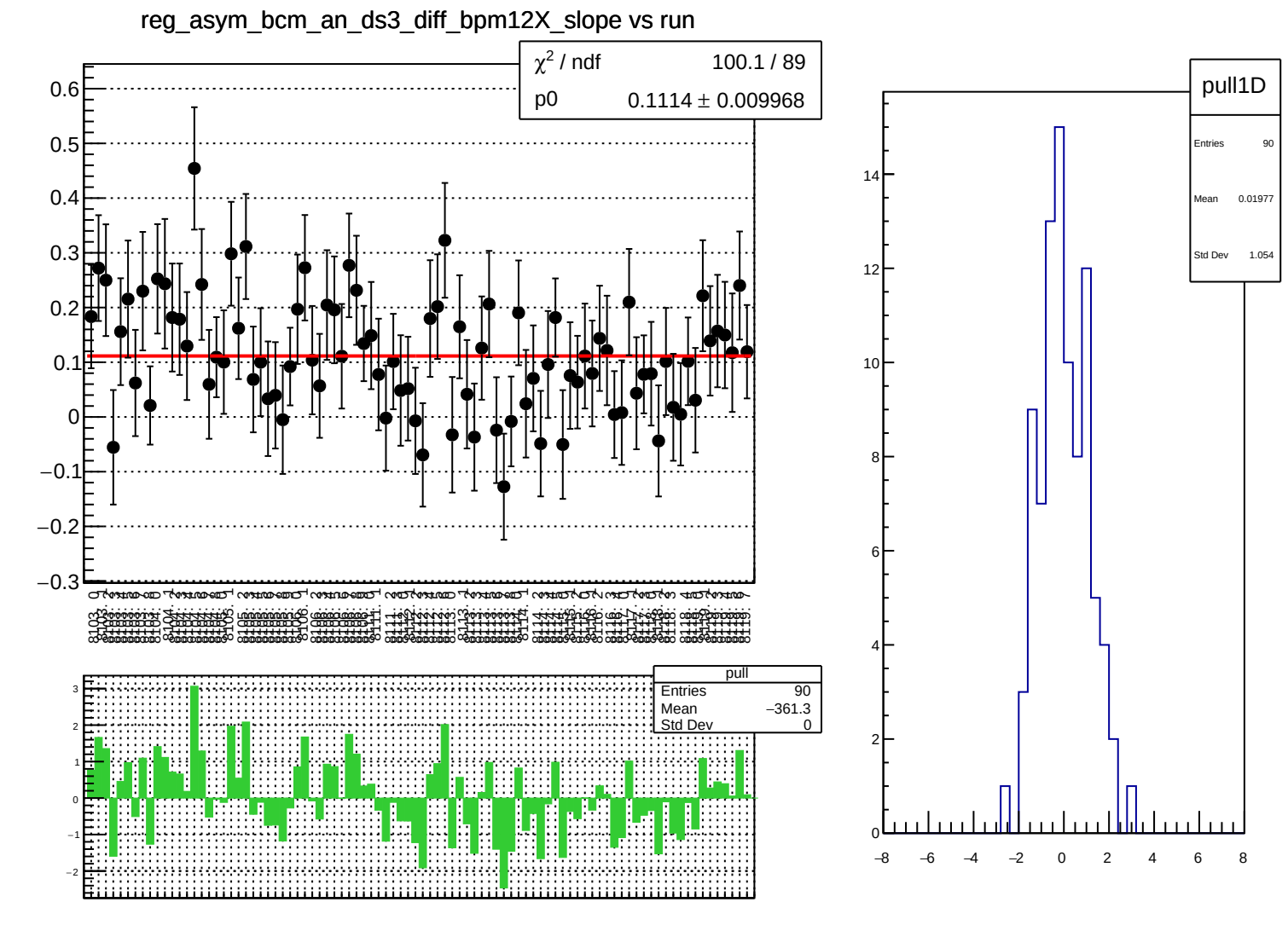

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 136.2 / 89
p0 5.158 ± 0.1652
pull
Entries 90
Mean −332.3
Std Dev 0
pull1D
Entries 90
Mean 0.01296
Std Dev 1.23

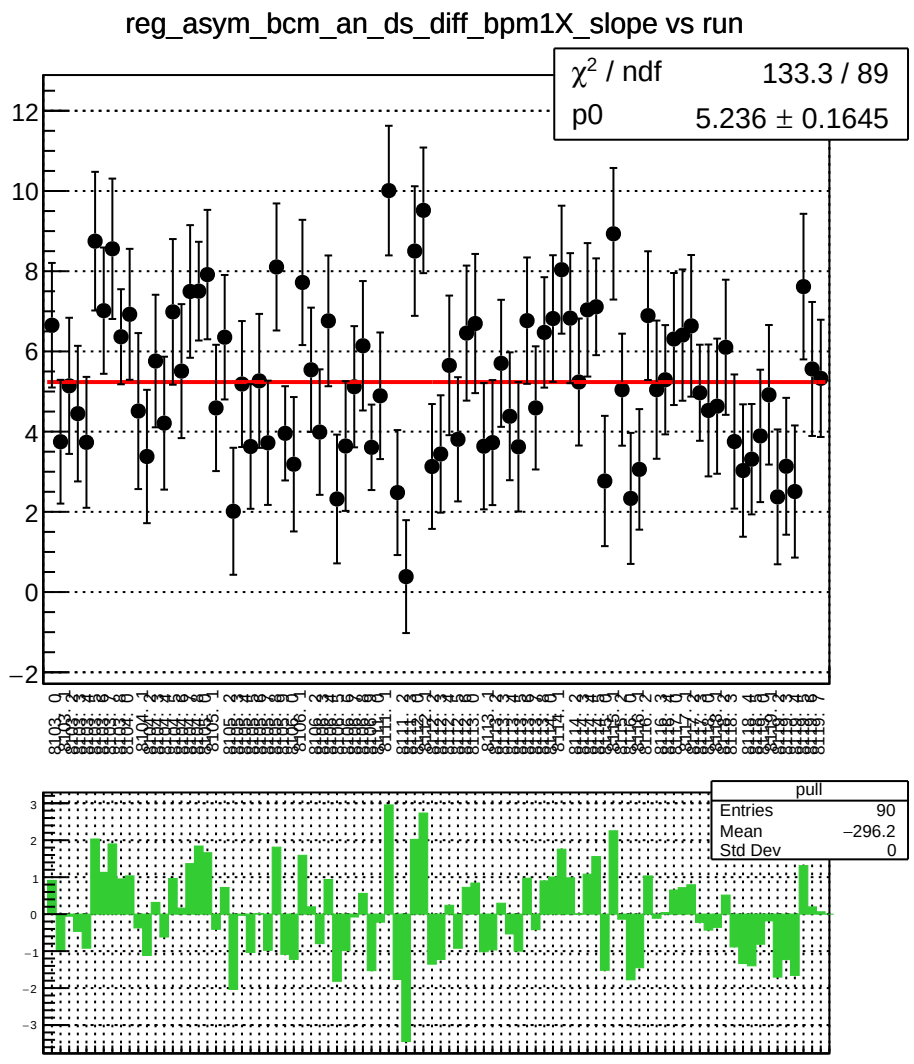

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 116.5 / 89
p0 0.8829 ± 0.2483
pull
Entries 90
Mean 522.5
Std Dev 0

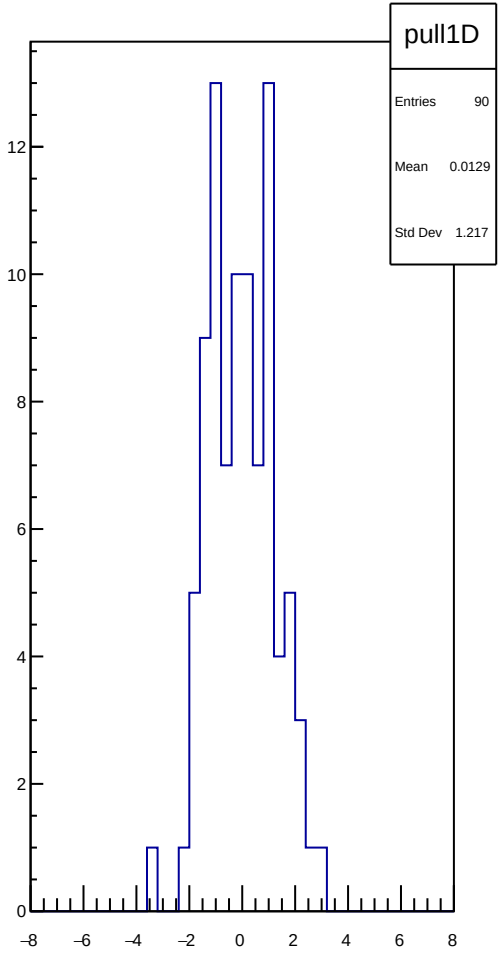

pull1D
Entries 90
Mean 0.0123
Std Dev 1.138

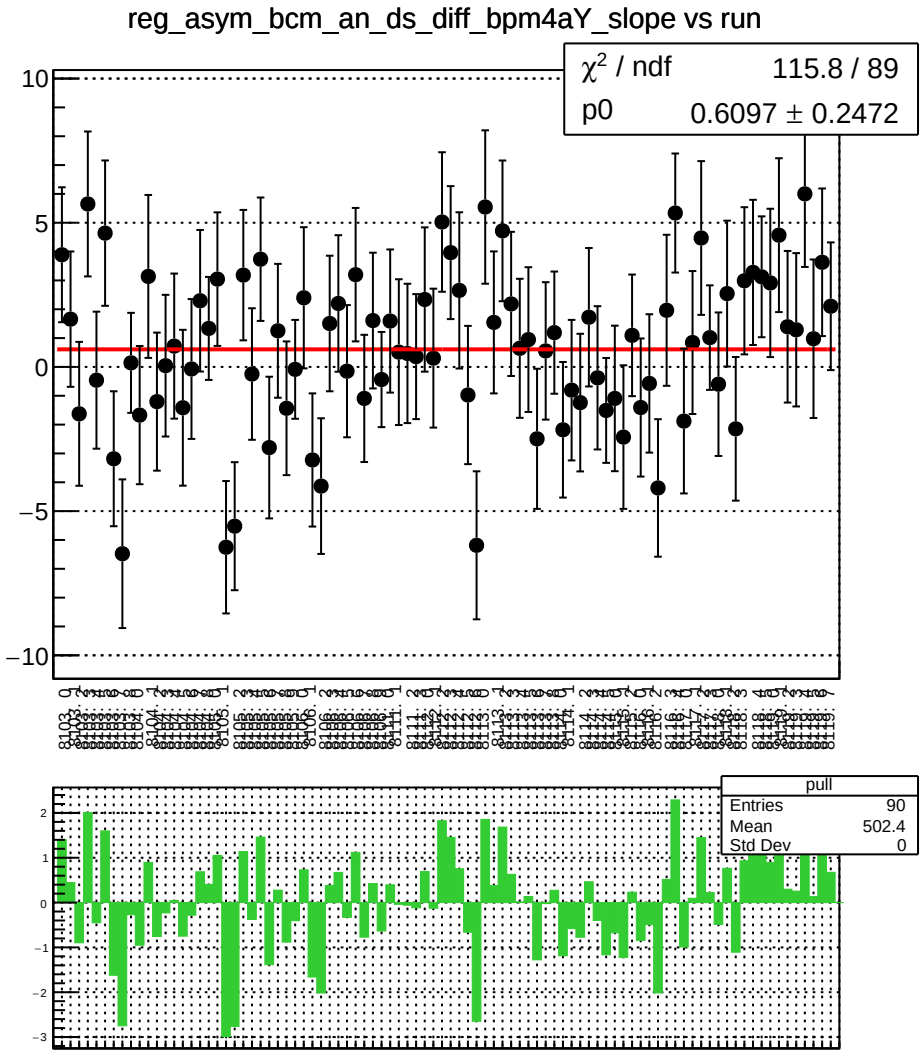

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 133.7 / 89
p0 −4.678 ± 0.1571
pull
Entries 90
Mean −273.3
Std Dev 0
pull1D
Entries 90
Mean −0.01154
Std Dev 1.219

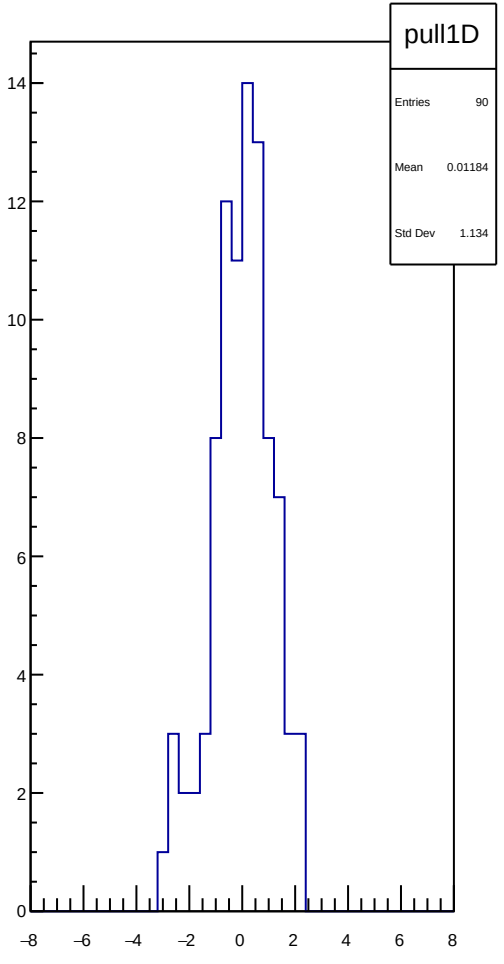

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 117.5 / 89
p0 −1.093 ± 0.2655
pull
Entries 90
Mean 581.7
Std Dev 0
pull1D
Entries 90
Mean −0.01312
Std Dev 1.143

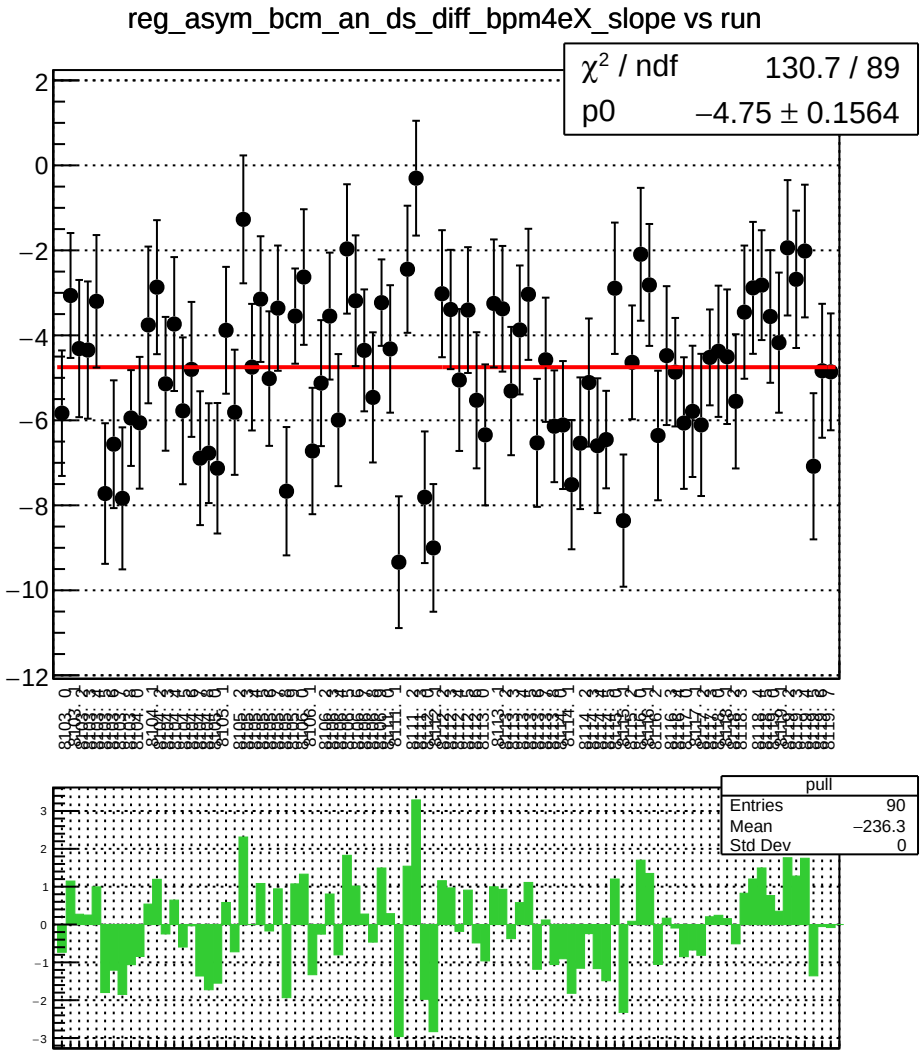

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 100.1 / 89
p0 0.1114 ± 0.009968
pull
Entries 90
Mean −361.3
Std Dev 0
pull1D
Entries 90
Mean 0.01977
Std Dev 1.054

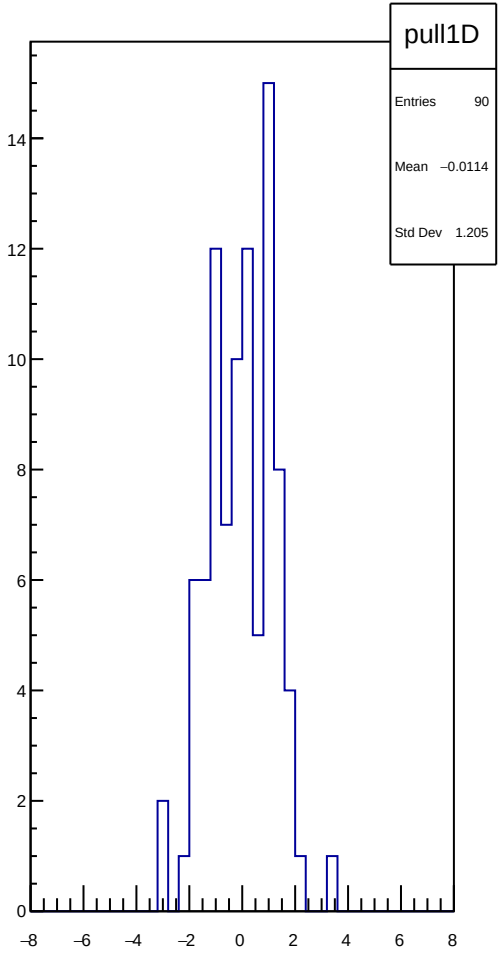

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 133.3 / 89
p0 5.236 ± 0.1645
pull
Entries 90
Mean −296.2
Std Dev 0

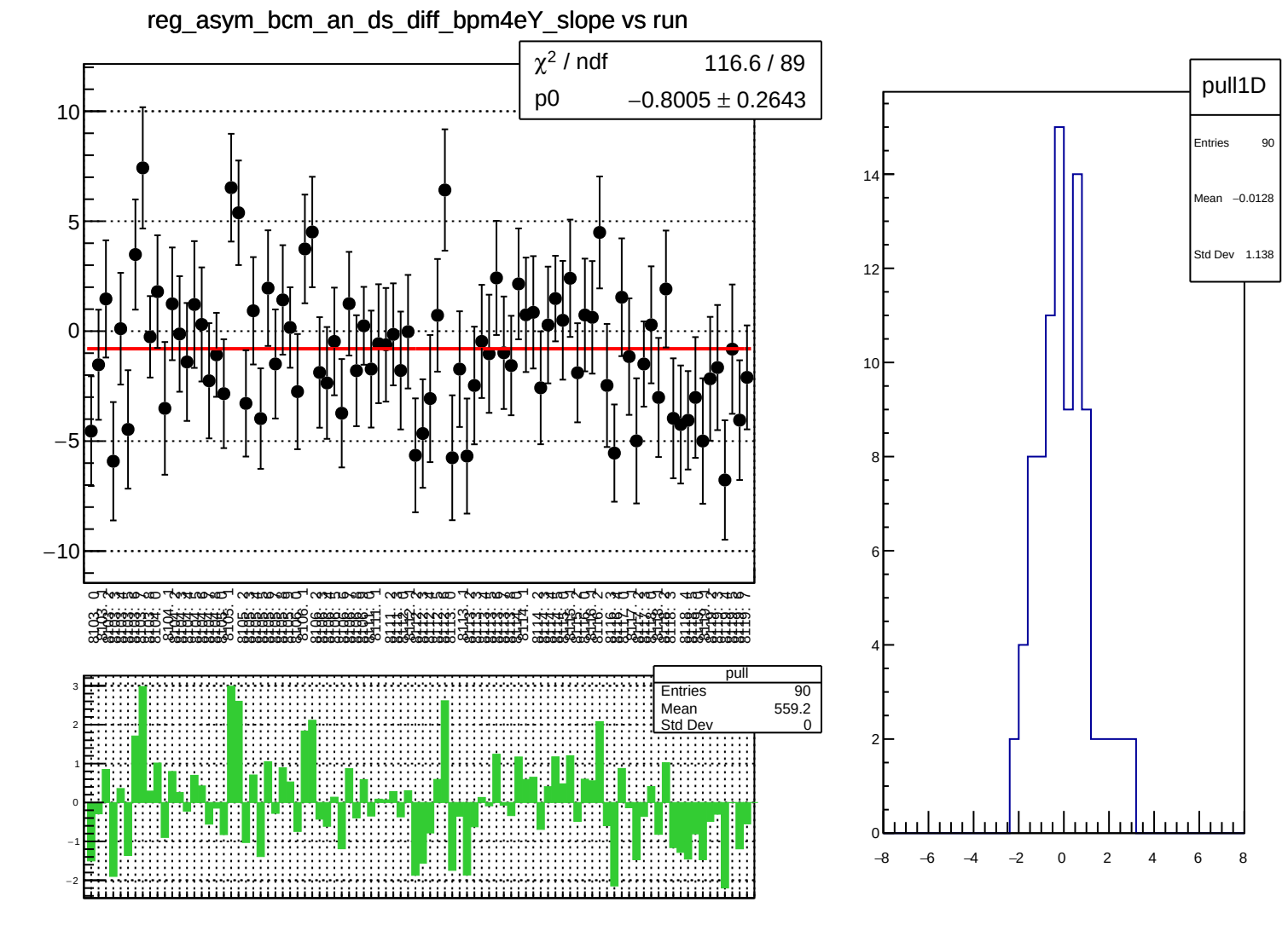

pull1D
Entries 90
Mean 0.0129
Std Dev 1.217

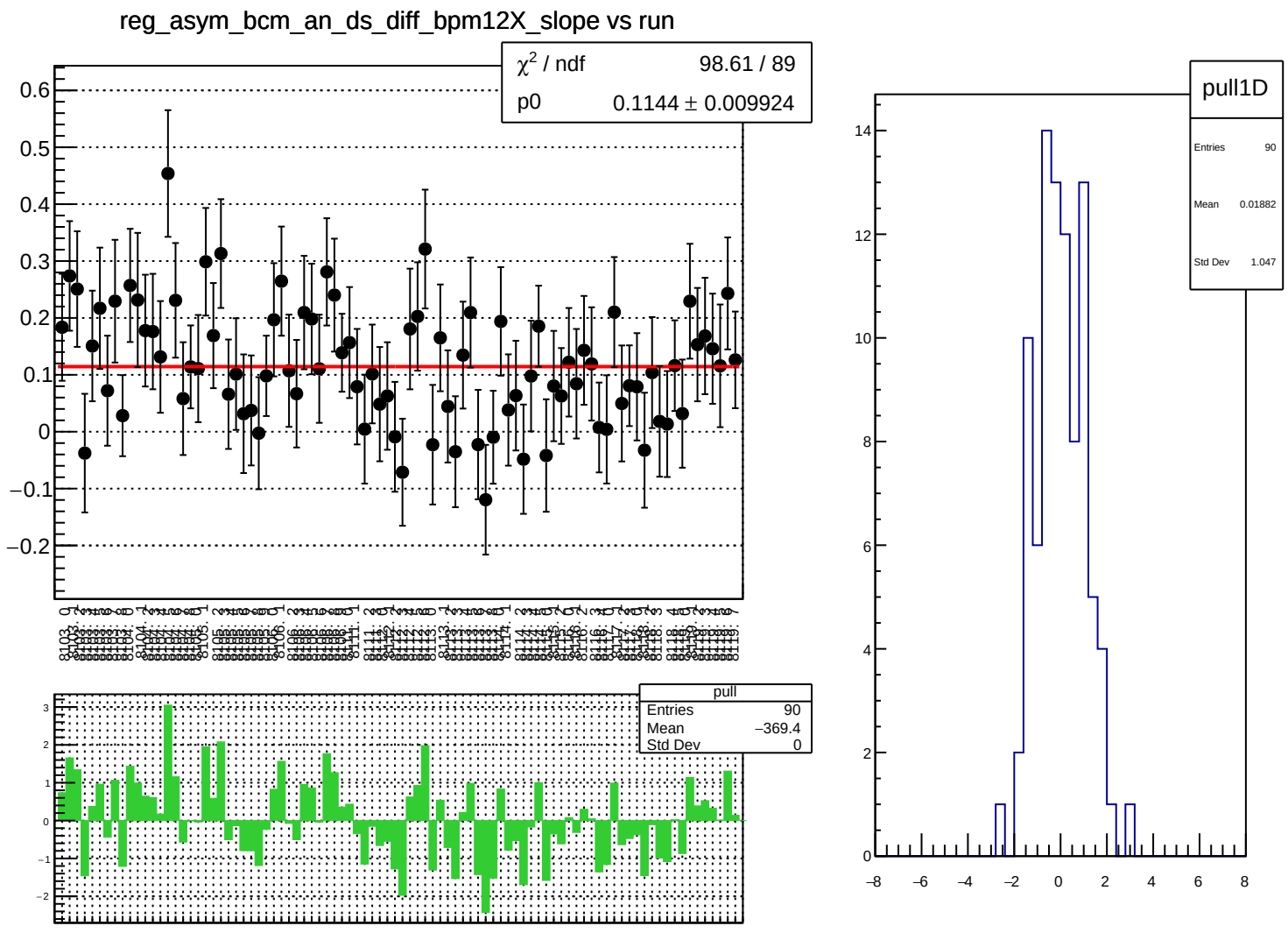

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 115.8 / 89
p0 0.6097 ± 0.2472
pull
Entries 90
Mean 502.4
Std Dev 0

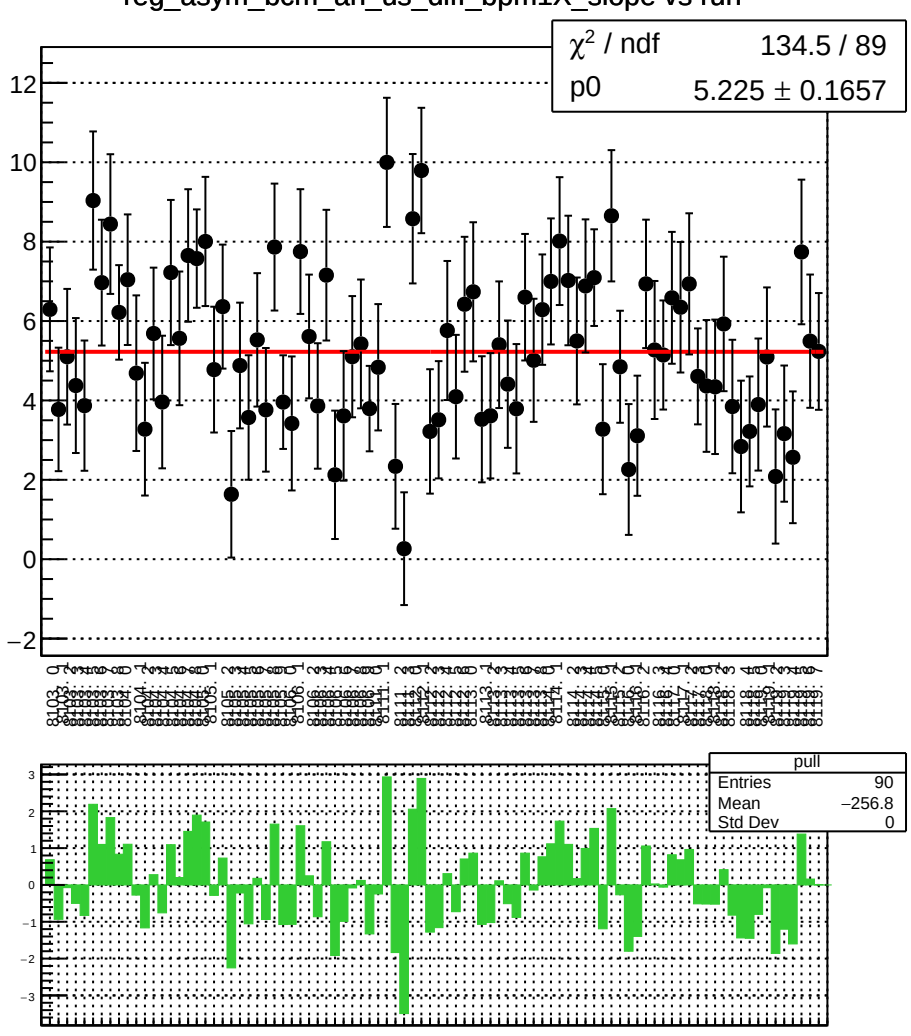

pull1D
Entries 90
Mean 0.01184
Std Dev 1.134

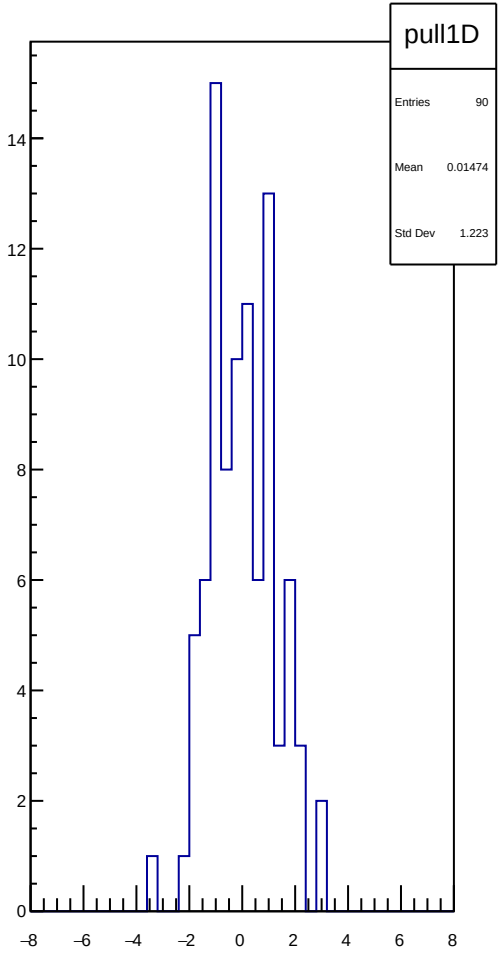

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 130.7 / 89
p0 −4.75 ± 0.1564
pull
Entries 90
Mean −236.3
Std Dev 0

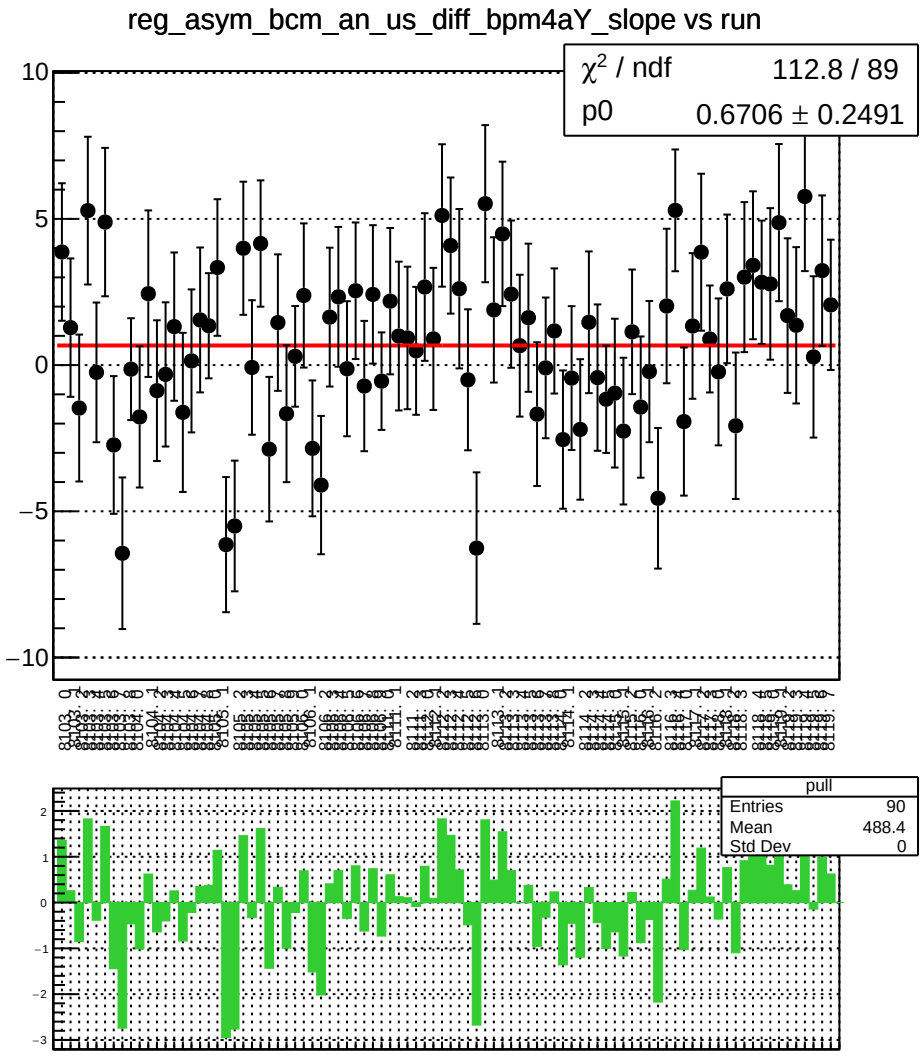

pull1D
Entries 90
Mean −0.0114
Std Dev 1.205

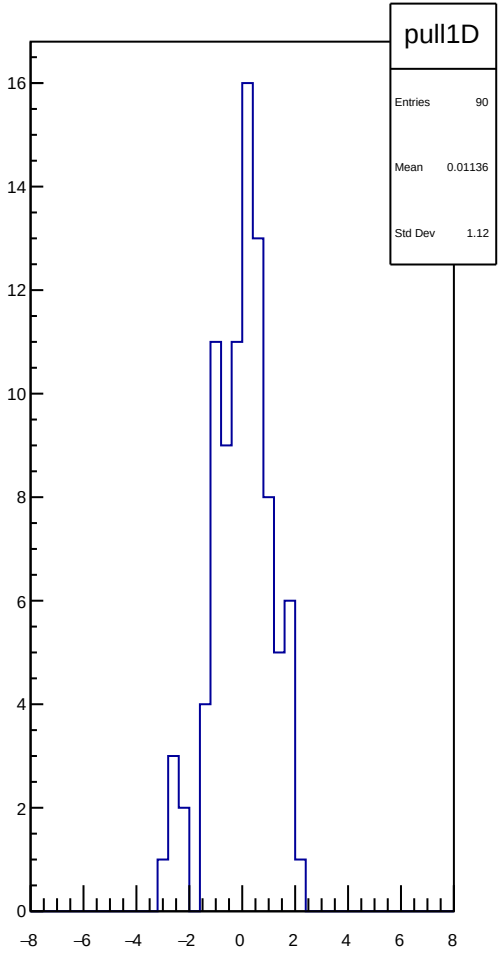

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 116.6 / 89
p0 −0.8005 ± 0.2643
pull
Entries 90
Mean 559.2
Std Dev 0
pull1D
Entries 90
Mean −0.0128
Std Dev 1.138

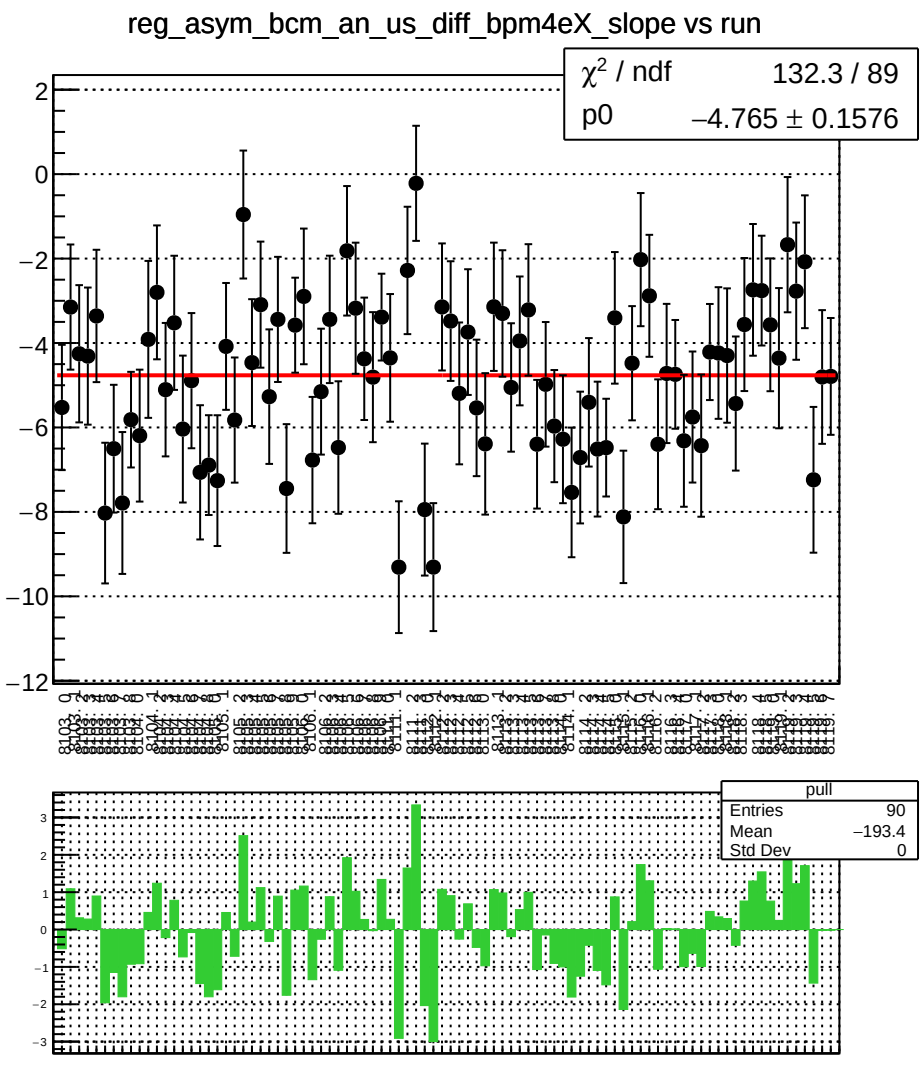

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 98.61 / 89
p0 0.1144 ± 0.009924
pull
Entries 90
Mean −369.4
Std Dev 0
pull1D
Entries 90
Mean 0.01882
Std Dev 1.047

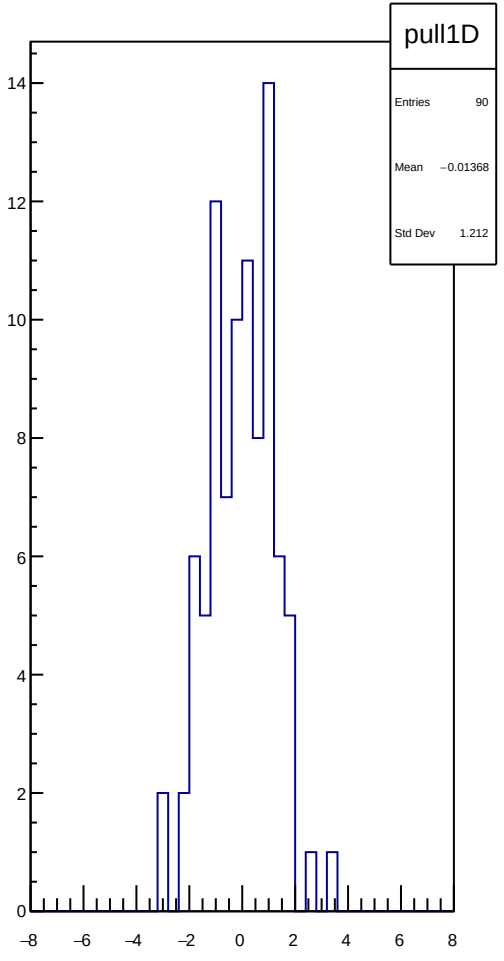

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 134.5 / 89
p0 5.225 ± 0.1657
pull
Entries 90
Mean −256.8
Std Dev 0

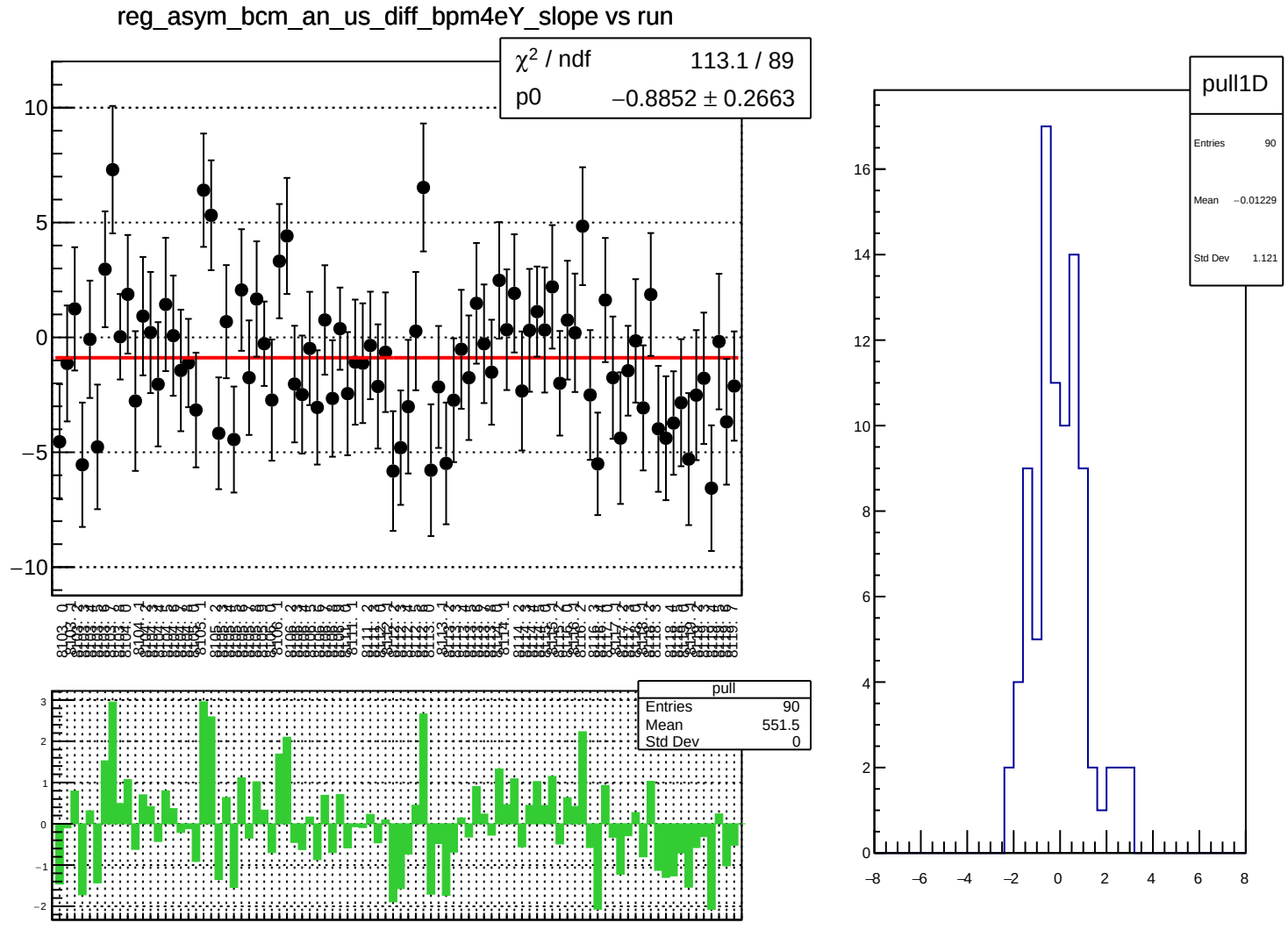

pull1D
Entries 90
Mean 0.01474
Std Dev 1.223

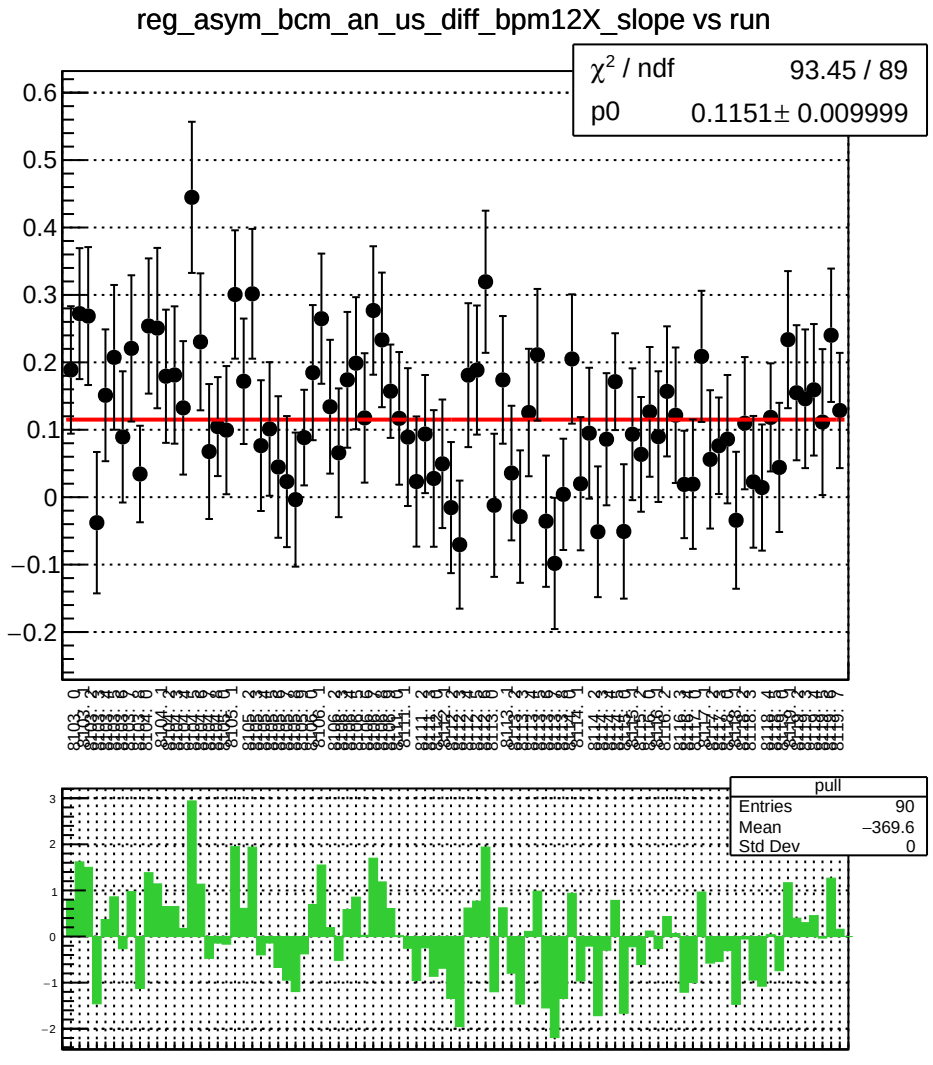

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 112.8 / 89
p0 0.6706 ± 0.2491
pull
Entries 90
Mean 488.4
Std Dev 0

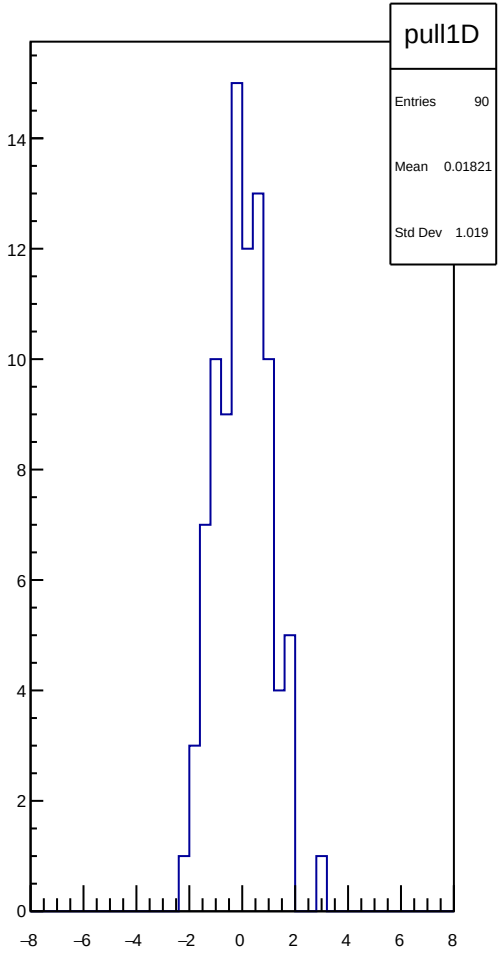

pull1D
Entries 90
Mean 0.01136
Std Dev 1.12

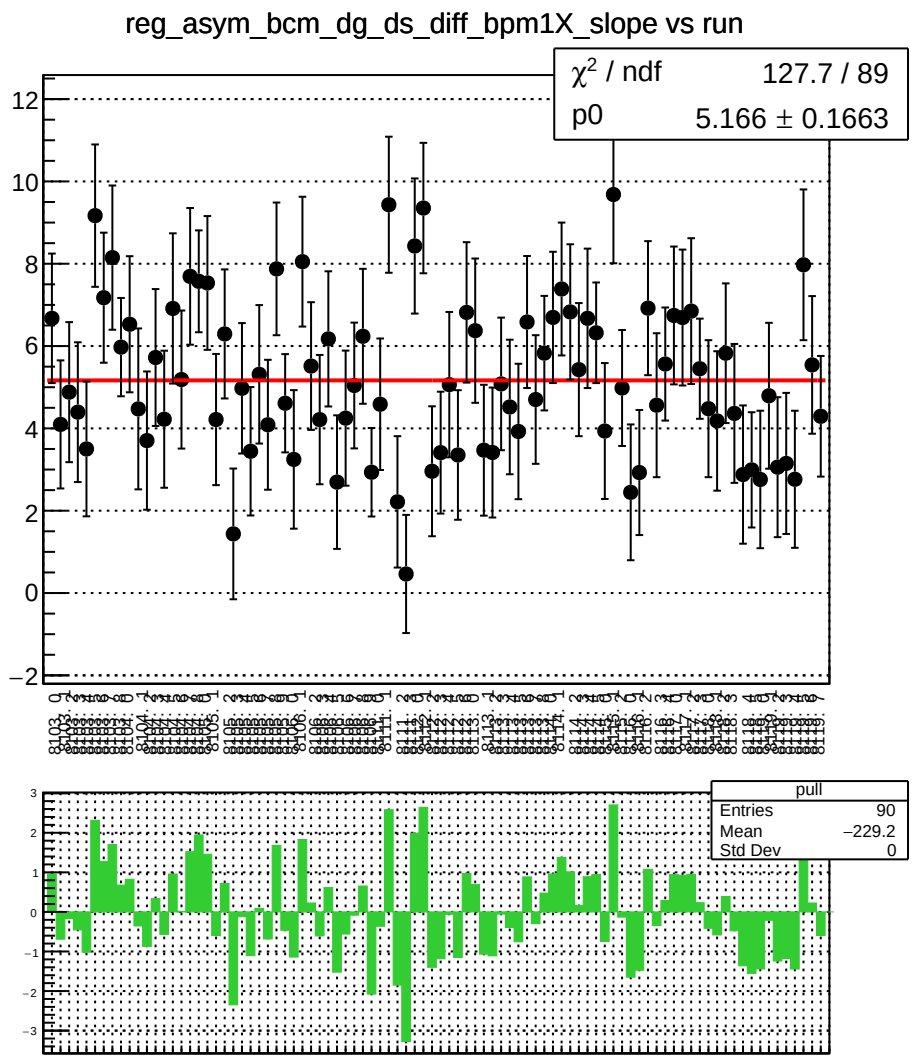

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 132.3 / 89
p0 −4.765 ± 0.1576
pull
Entries 90
Mean −193.4
Std Dev 0

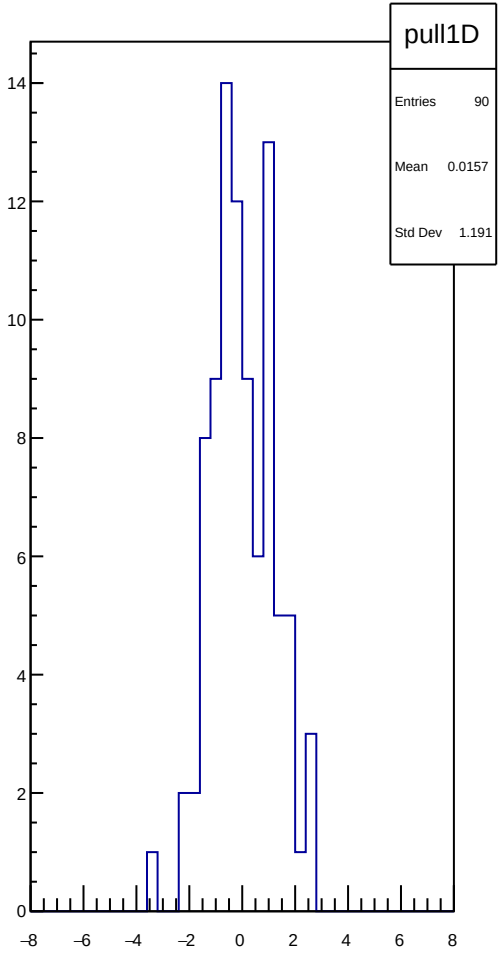

pull1D
Entries 90
Mean −0.01368
Std Dev 1.212

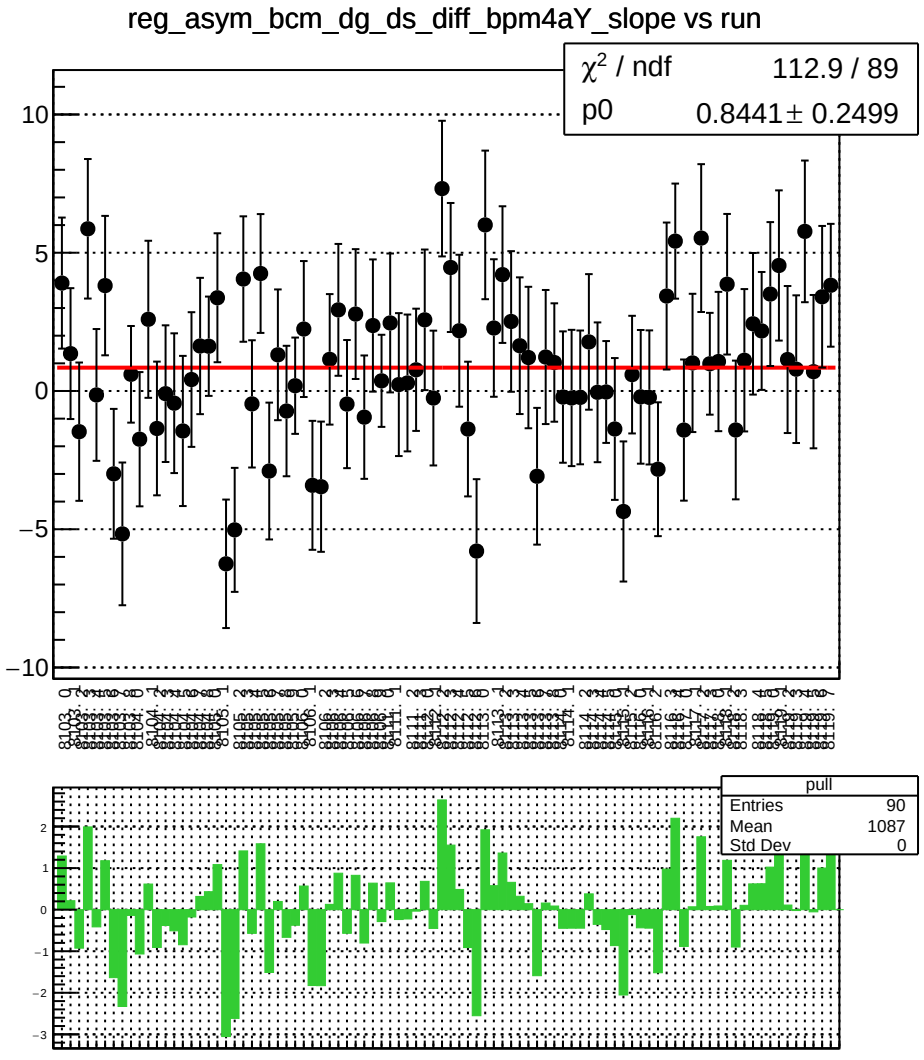

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 113.1 / 89
p0 −0.8852 ± 0.2663
pull
Entries 90
Mean 551.5
Std Dev 0
pull1D
Entries 90
Mean −0.01229
Std Dev 1.121

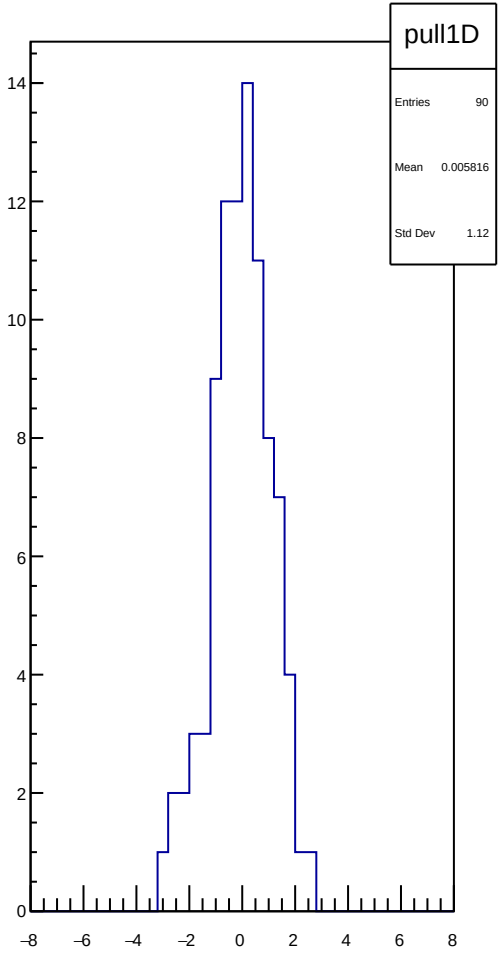

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 93.45 / 89
p0 0.1151± 0.009999
pull
Entries 90
Mean −369.6
Std Dev 0

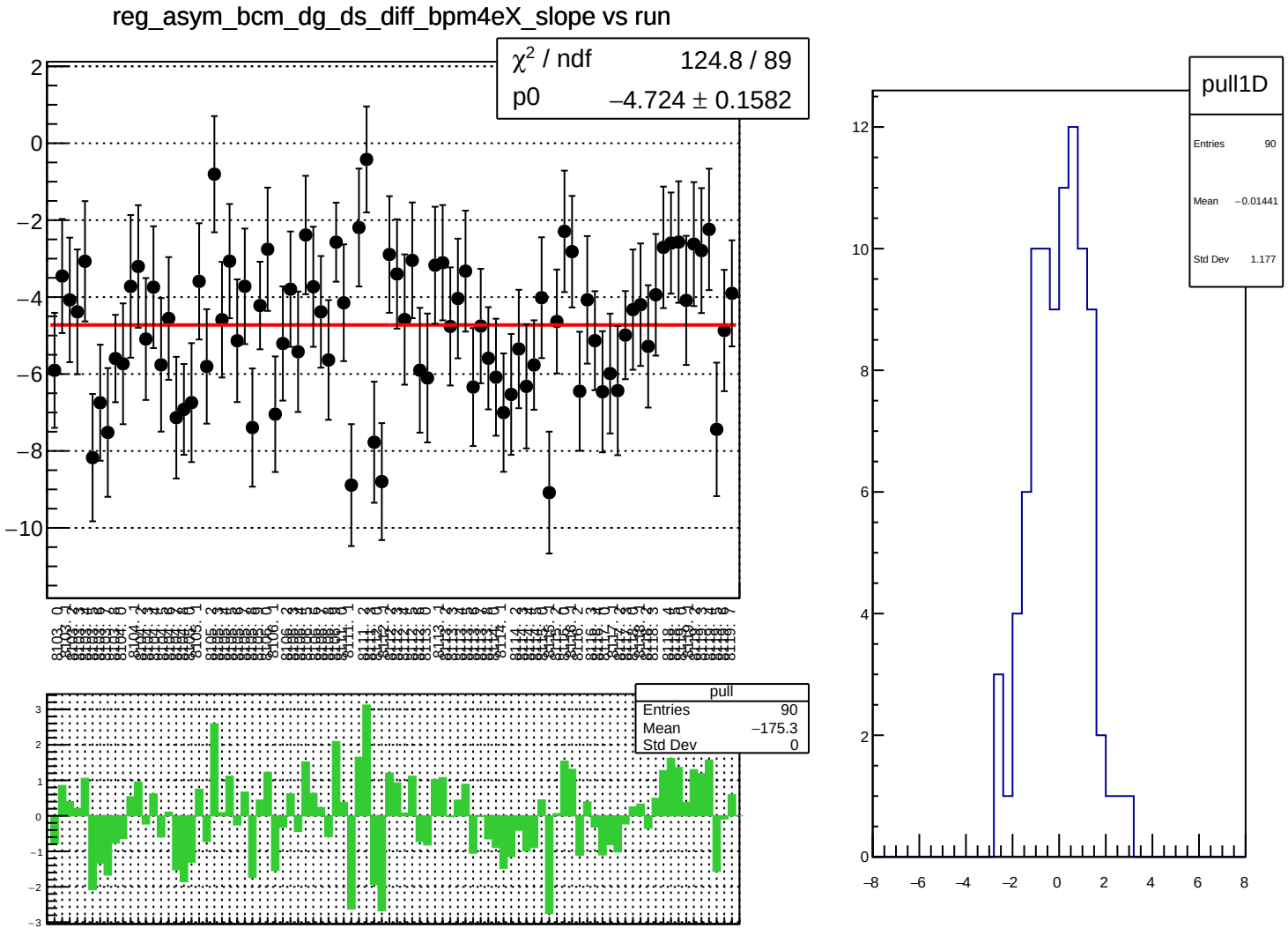

pull1D
Entries 90
Mean 0.01821
Std Dev 1.019

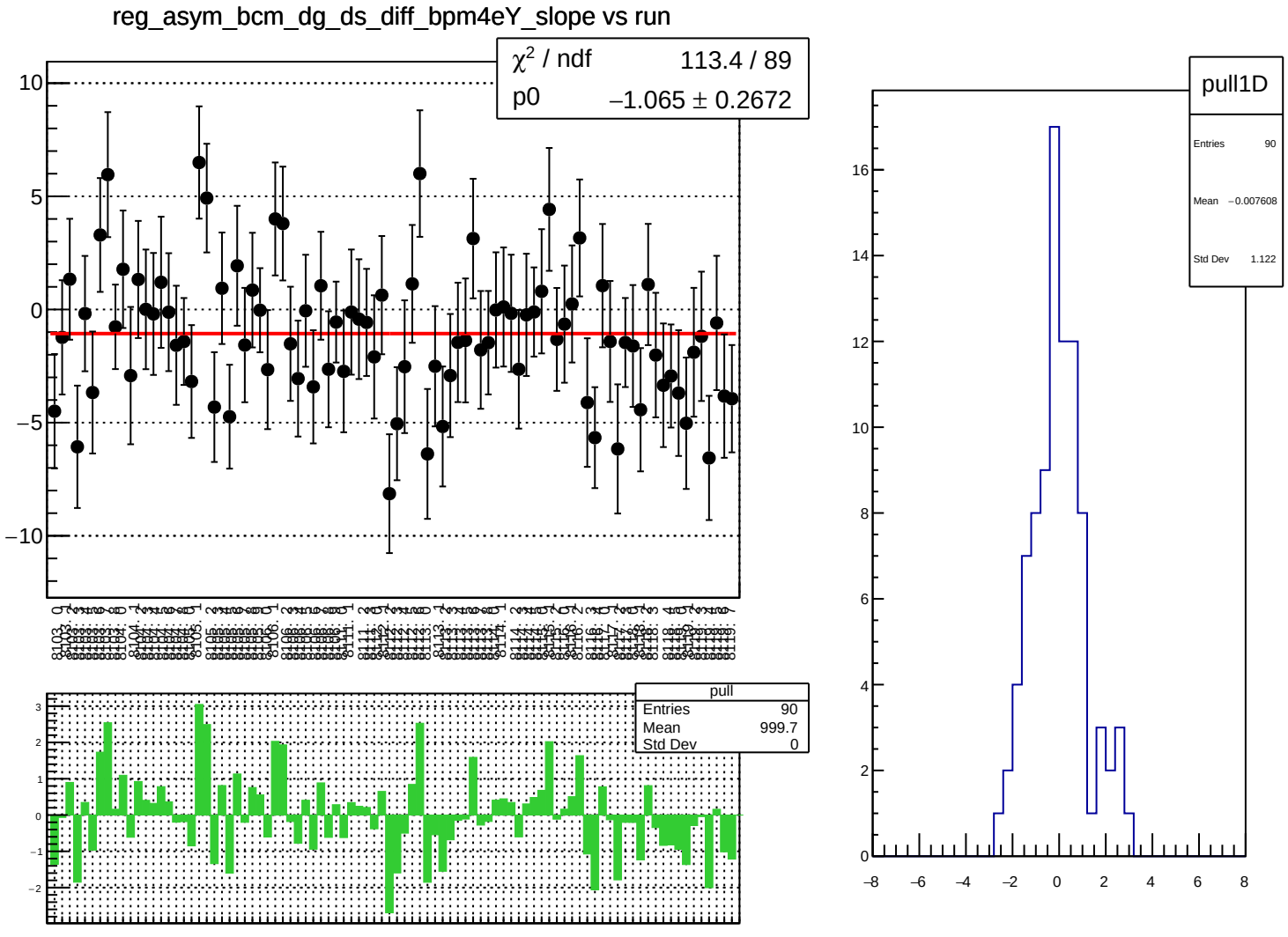

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 127.7 / 89
p0 5.166 ± 0.1663
pull
Entries 90
Mean −229.2
Std Dev 0

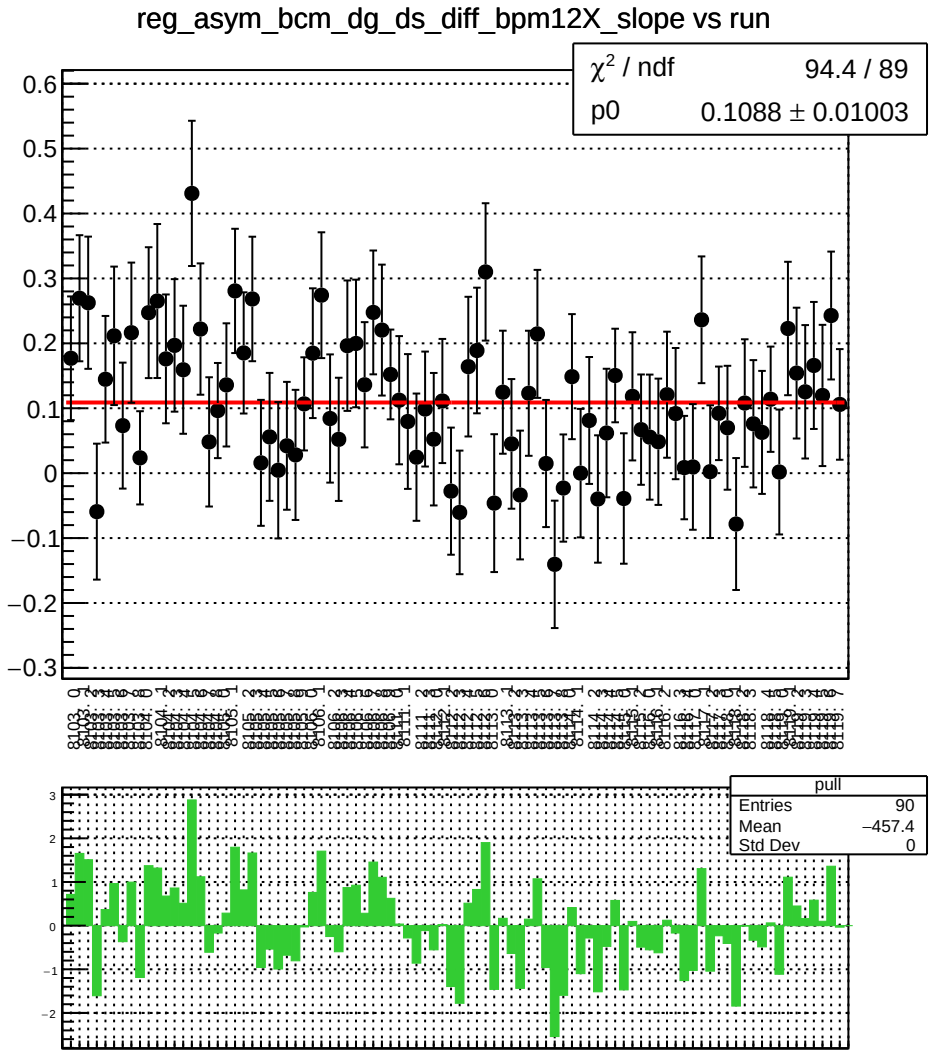

pull1D
Entries 90
Mean 0.0157
Std Dev 1.191

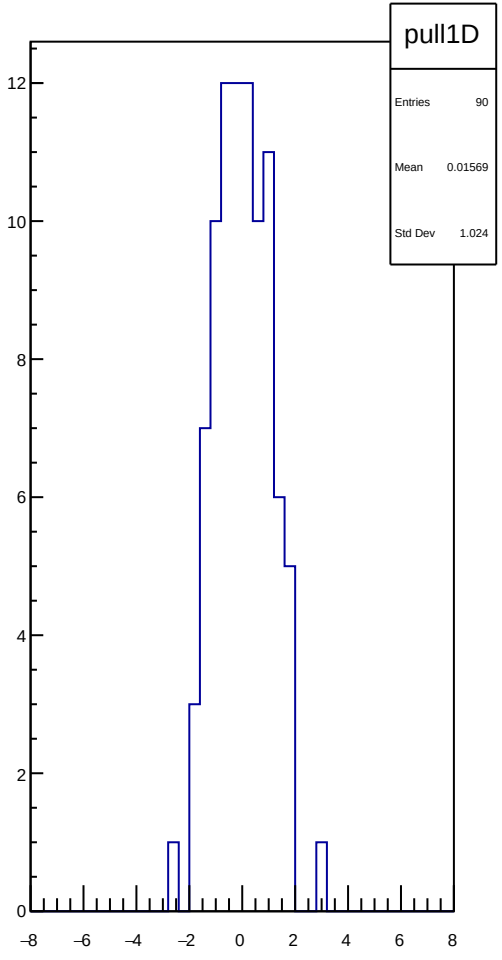

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 112.9 / 89
p0 0.8441 ± 0.2499
pull
Entries 90
Mean 1087
Std Dev 0

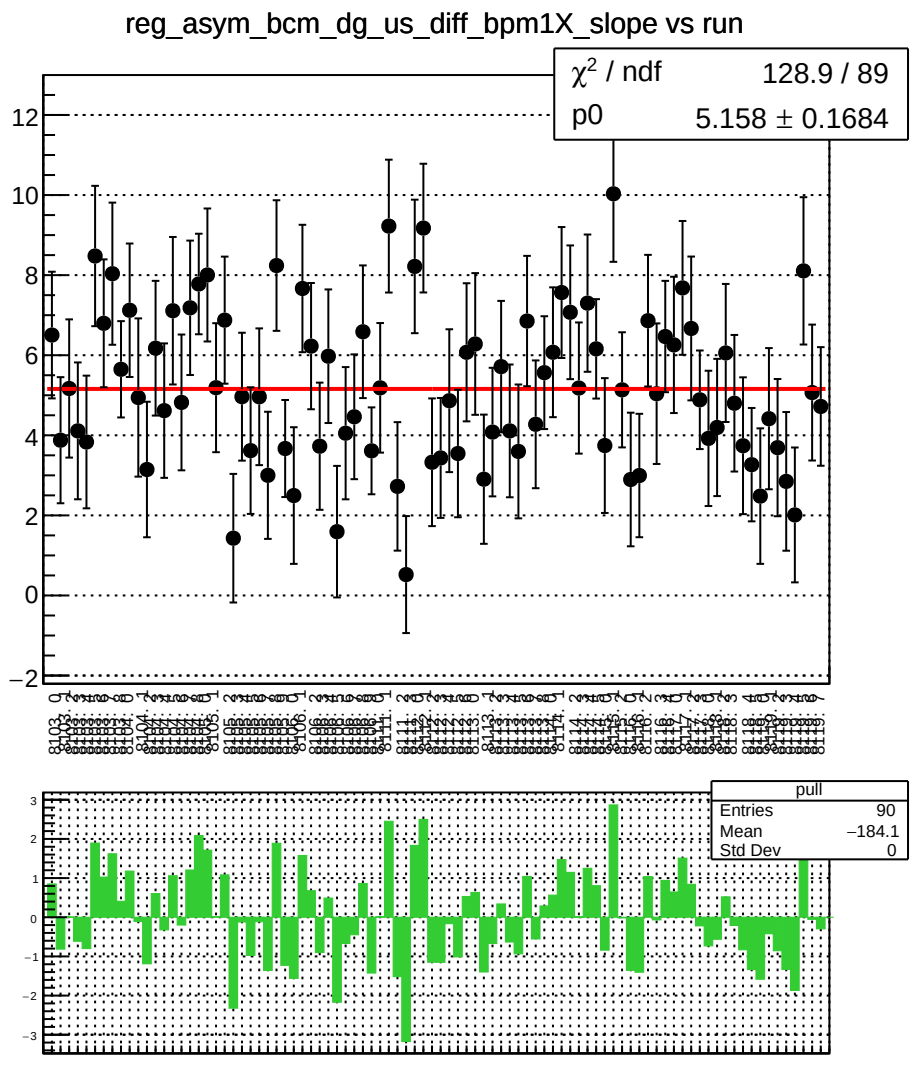

pull1D
Entries 90
Mean 0.005816
Std Dev 1.12

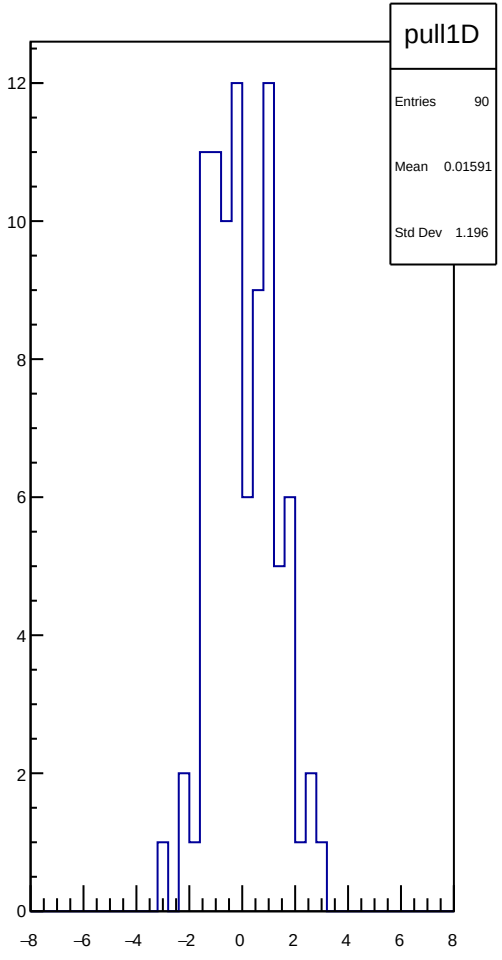

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 124.8 / 89
p0 −4.724 ± 0.1582
pull
Entries 90
Mean −175.3
Std Dev 0
pull1D
Entries 90
Mean −0.01441
Std Dev 1.177

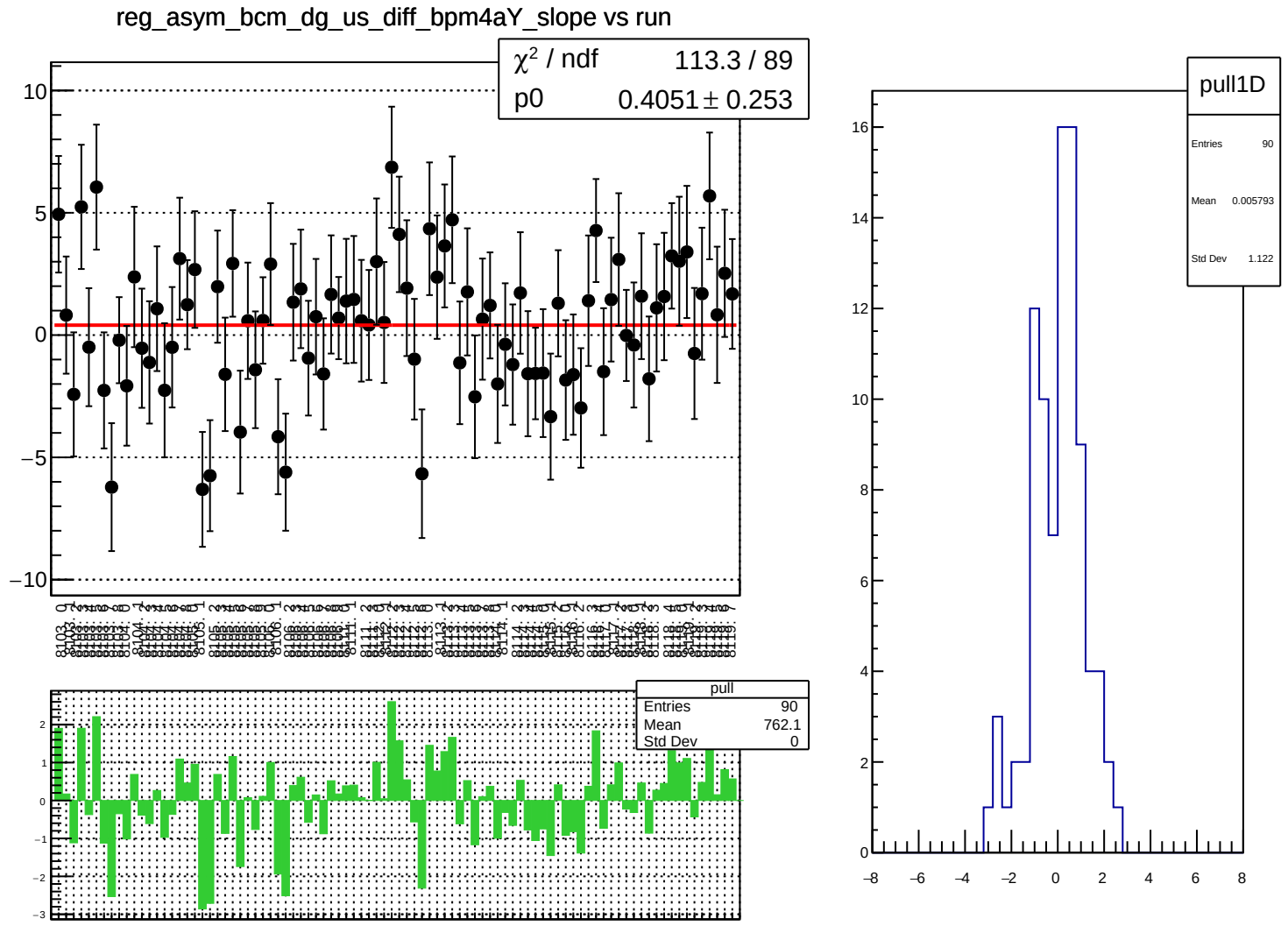

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 113.4 / 89
p0 −1.065 ± 0.2672
pull
Entries 90
Mean 999.7
Std Dev 0
pull1D
Entries 90
Mean −0.007608
Std Dev 1.122

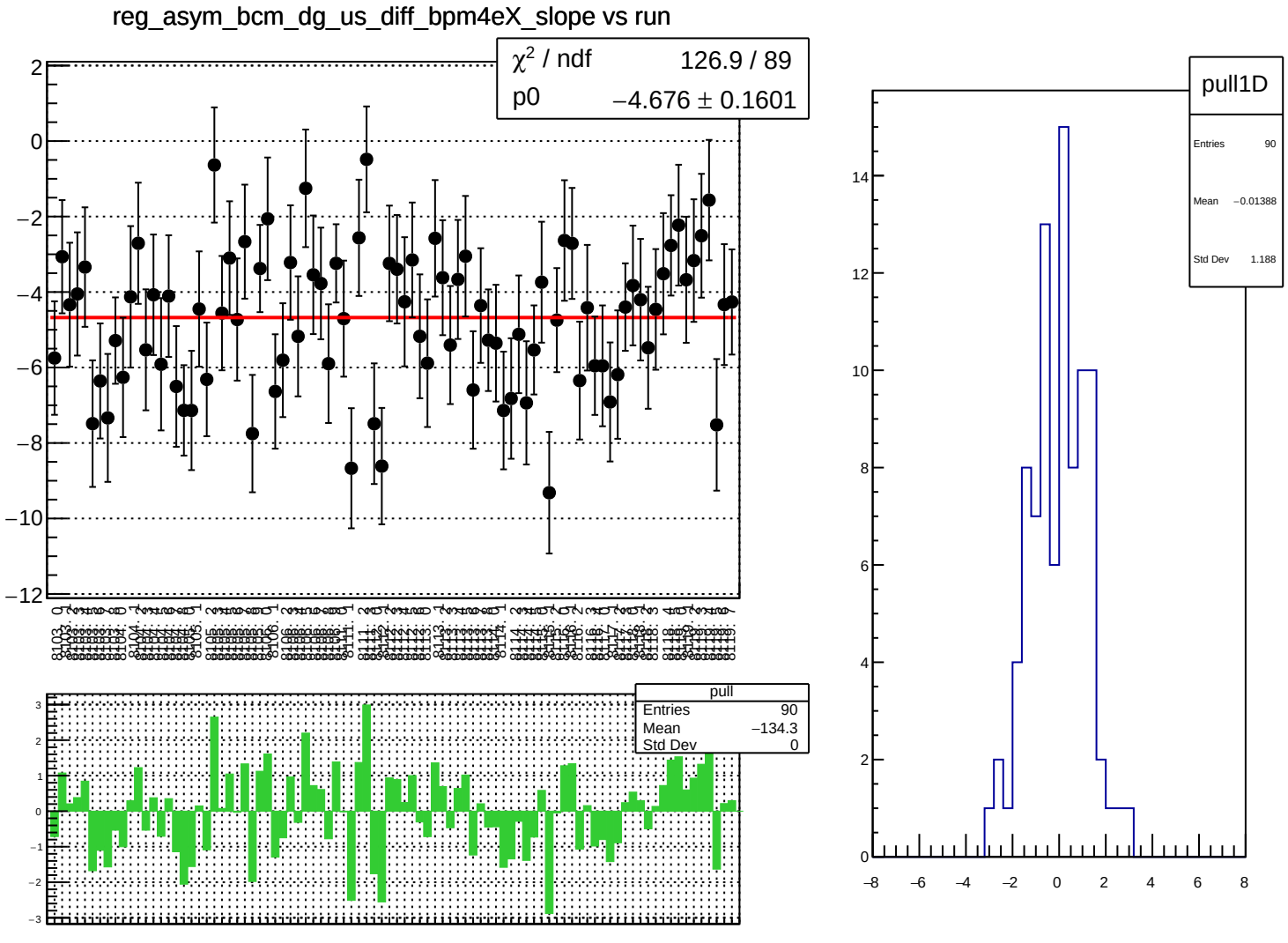

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 94.4 / 89
p0 0.1088 ± 0.01003
pull
Entries 90
Mean −457.4
Std Dev 0

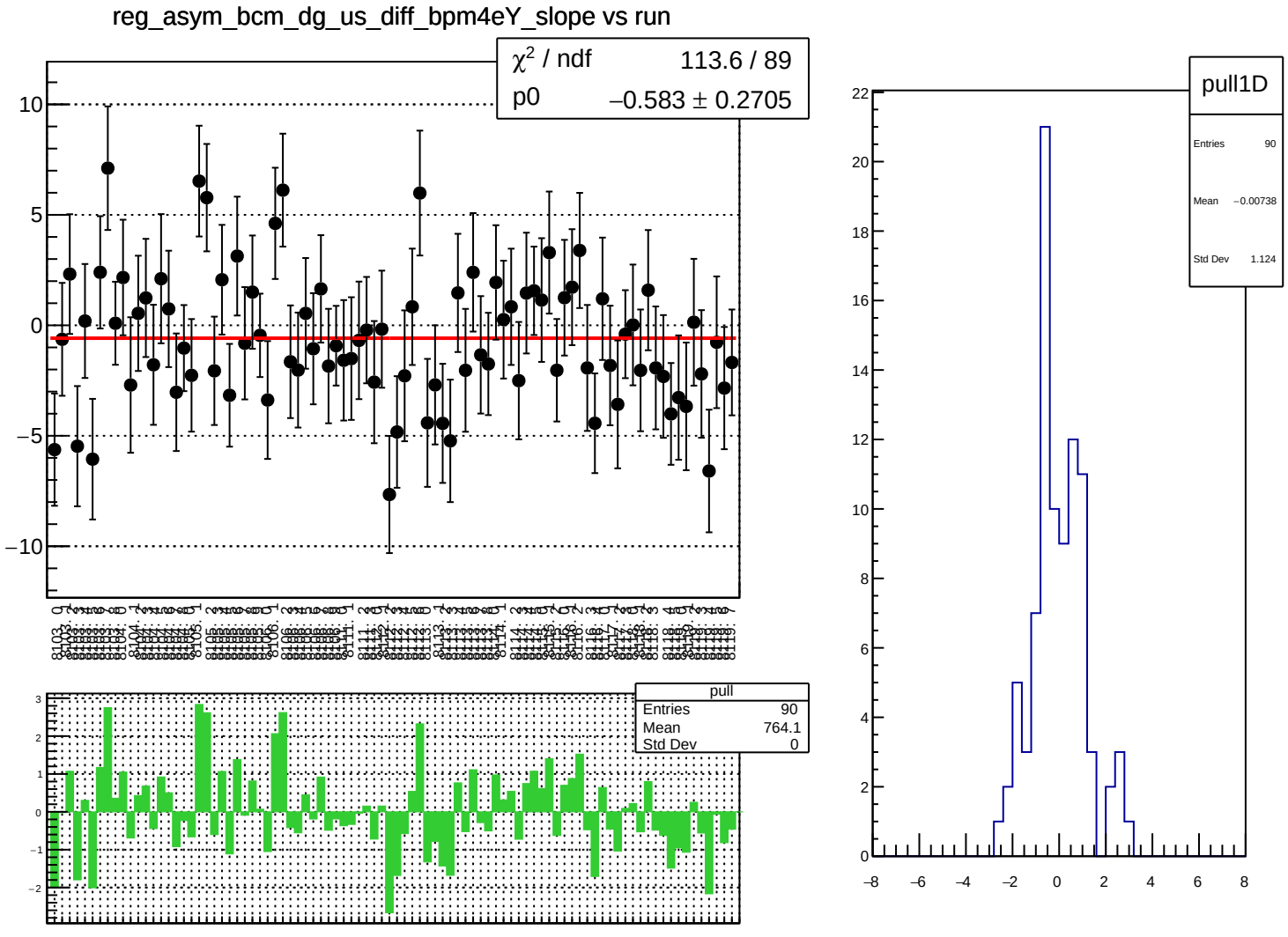

pull1D
Entries 90
Mean 0.01569
Std Dev 1.024

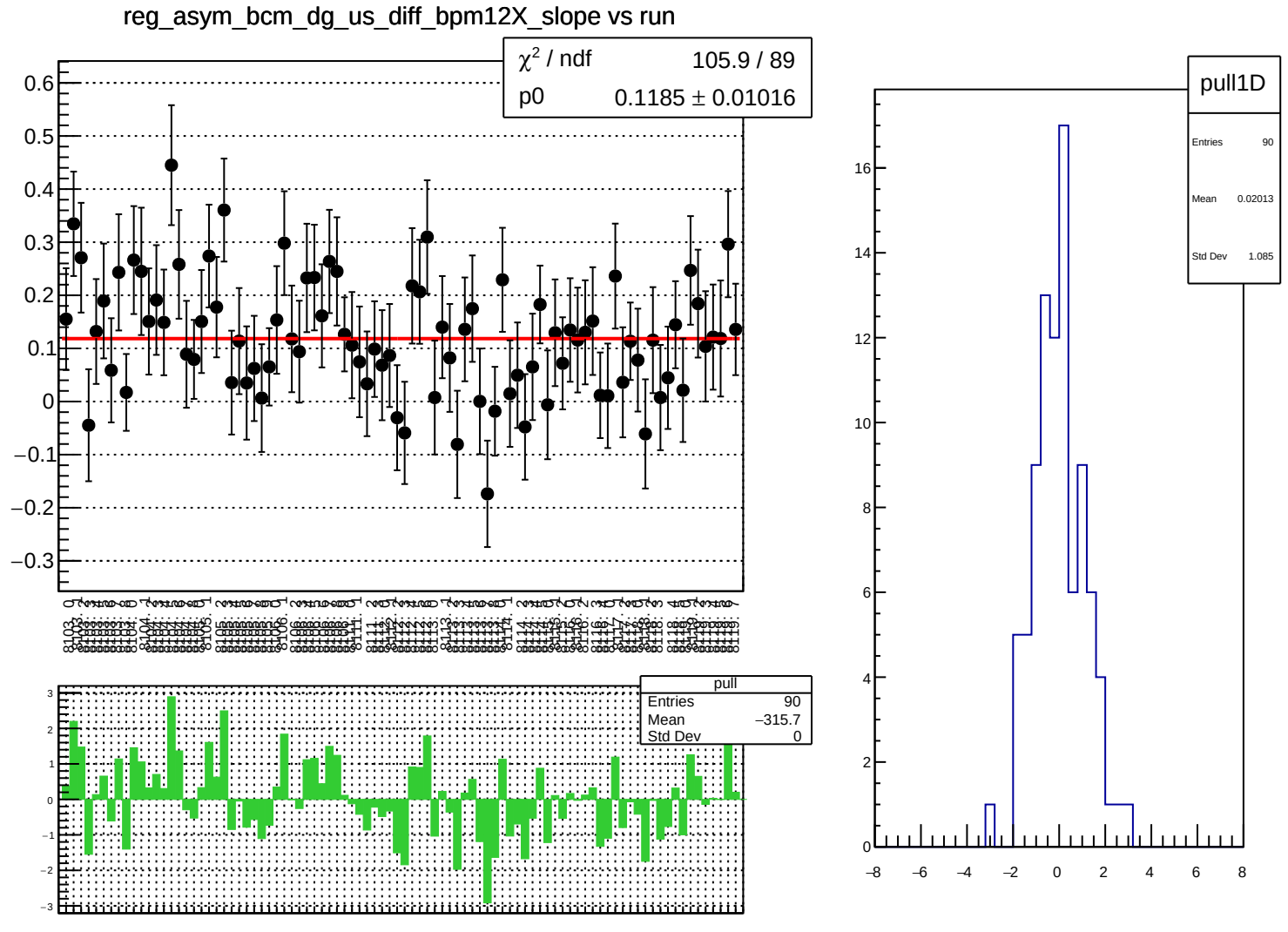

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 128.9 / 89
p0 5.158 ± 0.1684
pull
Entries 90
Mean −184.1
Std Dev 0

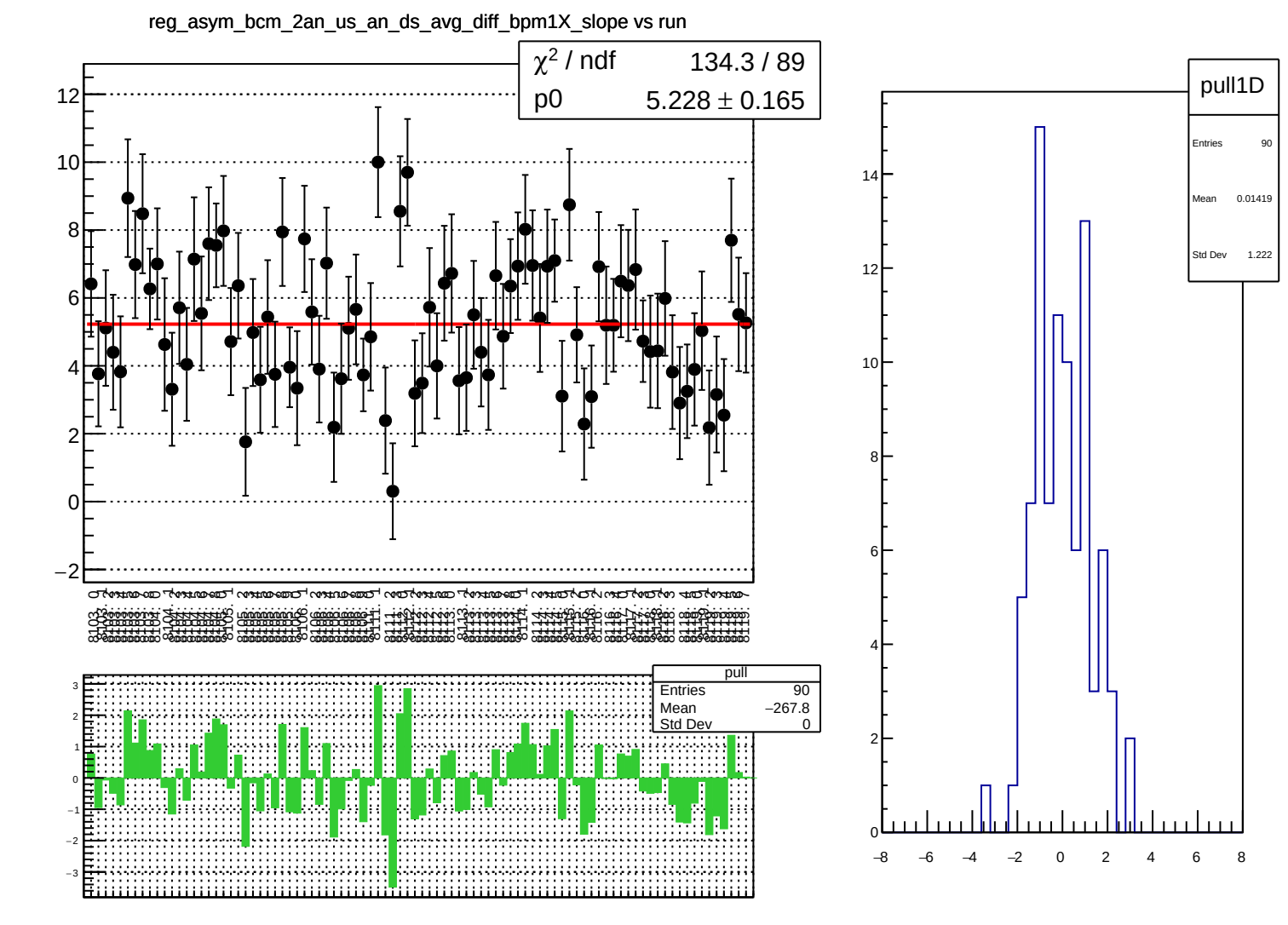

pull1D
Entries 90
Mean 0.01591
Std Dev 1.196

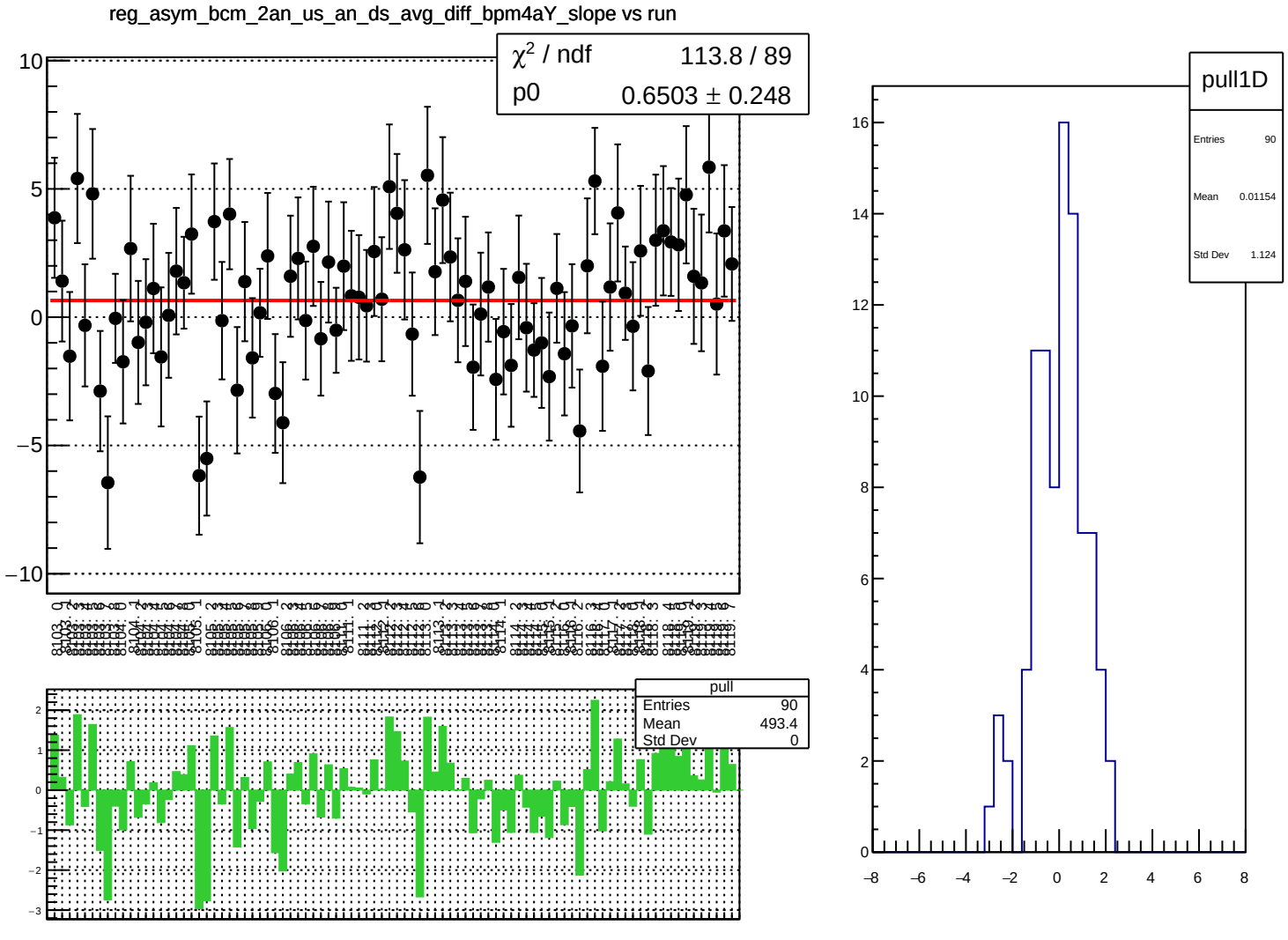

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 113.3 / 89
p0 0.4051 ± 0.253
pull
Entries 90
Mean 762.1
Std Dev 0
pull1D
Entries 90
Mean 0.005793
Std Dev 1.122

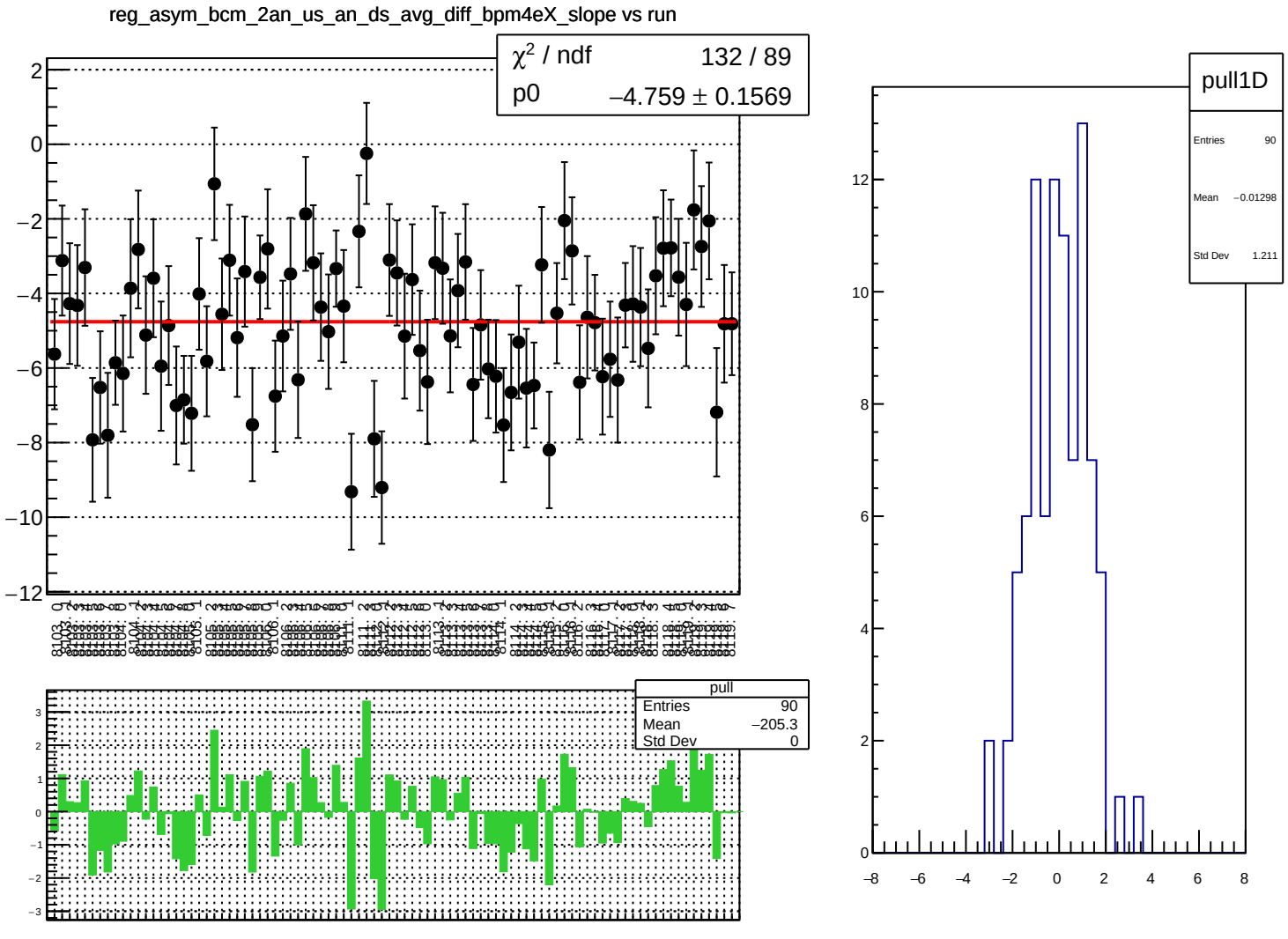

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 126.9 / 89
p0 −4.676 ± 0.1601
pull
Entries 90
Mean −134.3
Std Dev 0
pull1D
Entries 90
Mean −0.01388
Std Dev 1.188

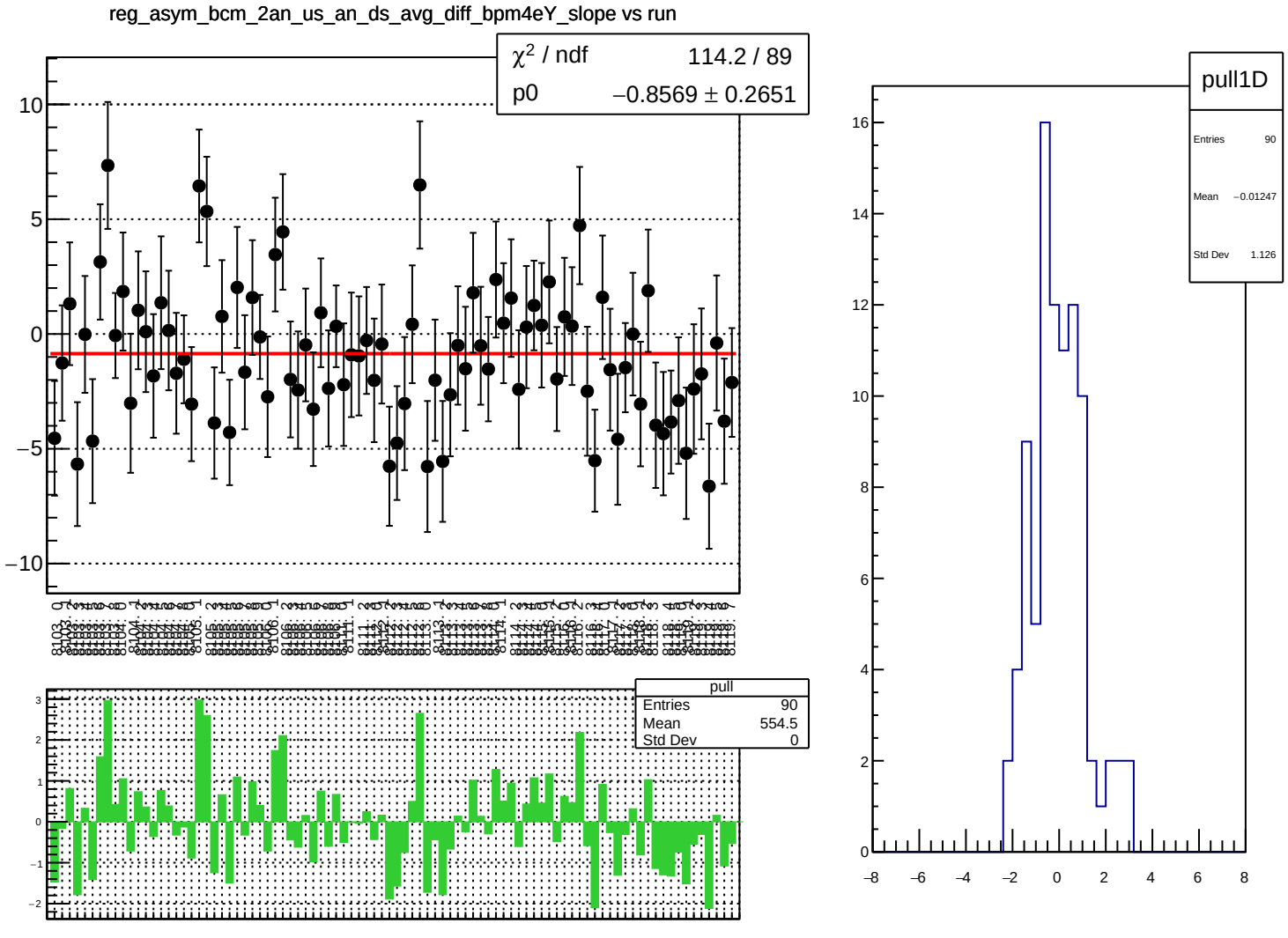

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 113.6 / 89
p0 −0.583 ± 0.2705
pull
Entries 90
Mean 764.1
Std Dev 0
pull1D
Entries 90
Mean −0.00738
Std Dev 1.124

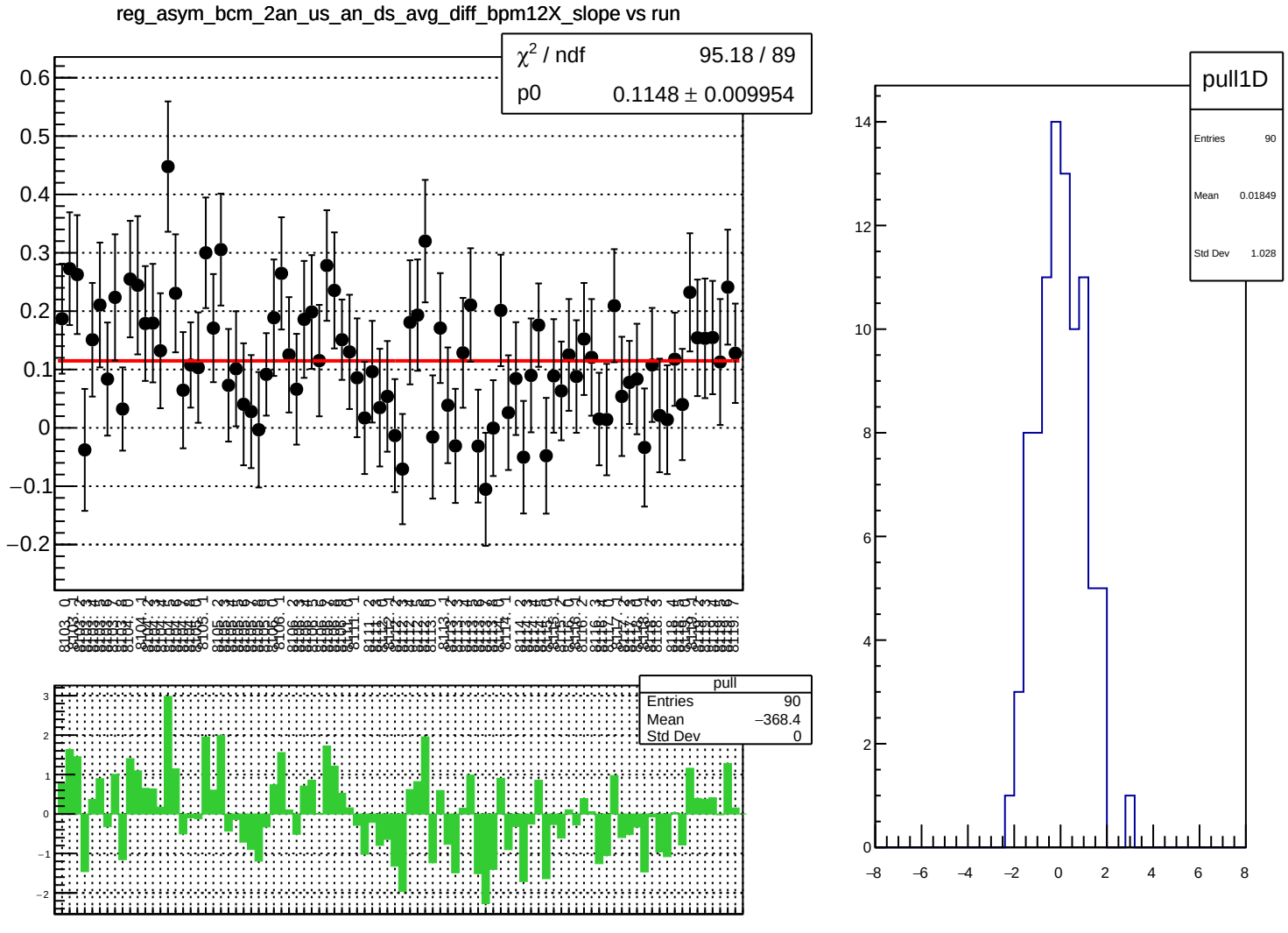

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 105.9 / 89
p0 0.1185 ± 0.01016
pull
Entries 90
Mean −315.7
Std Dev 0
pull1D
Entries 90
Mean 0.02013
Std Dev 1.085

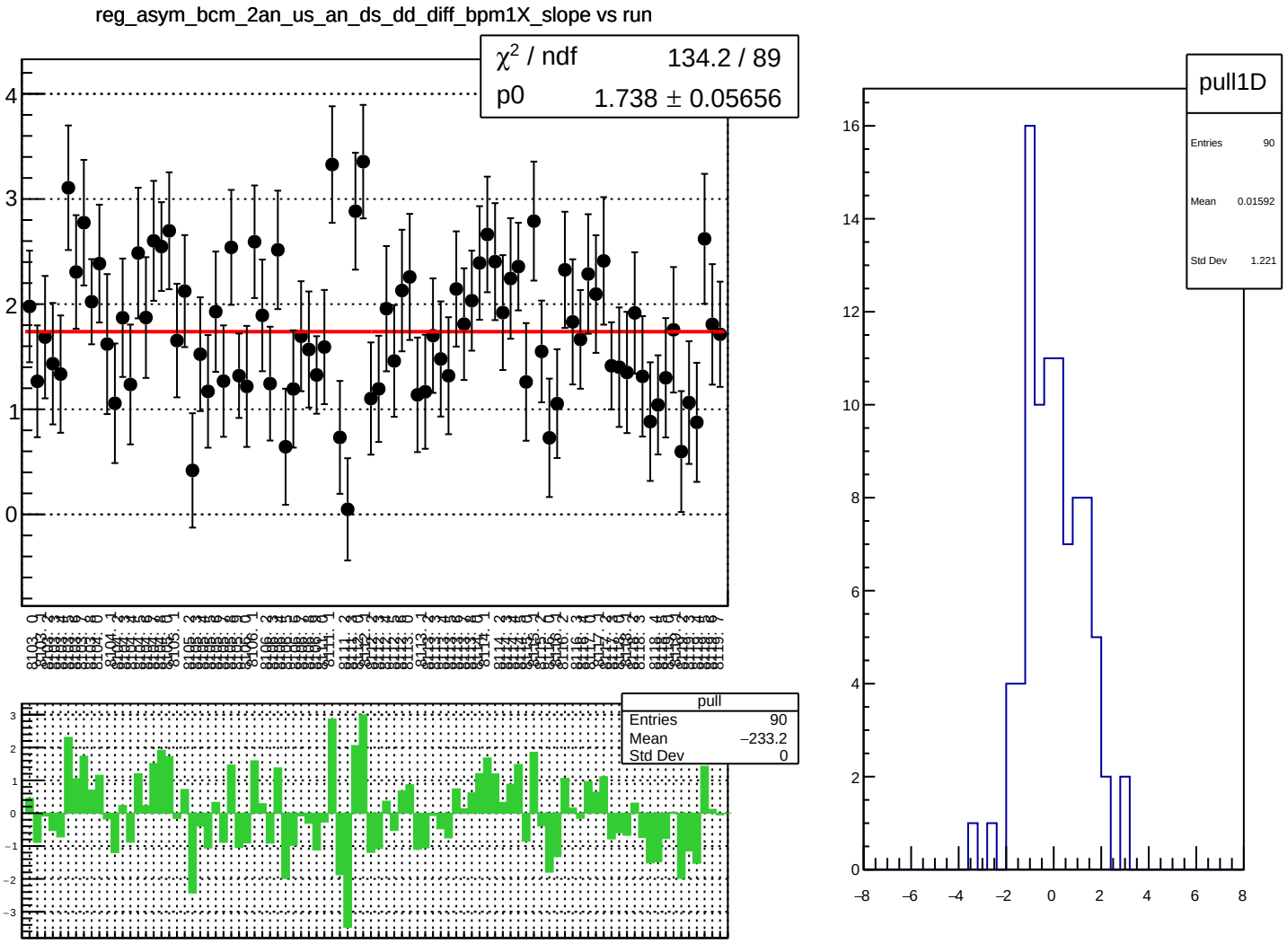

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 134.3 / 89
p0 5.228 ± 0.165
pull
Entries 90
Mean −267.8
Std Dev 0
pull1D
Entries 90
Mean 0.01419
Std Dev 1.222

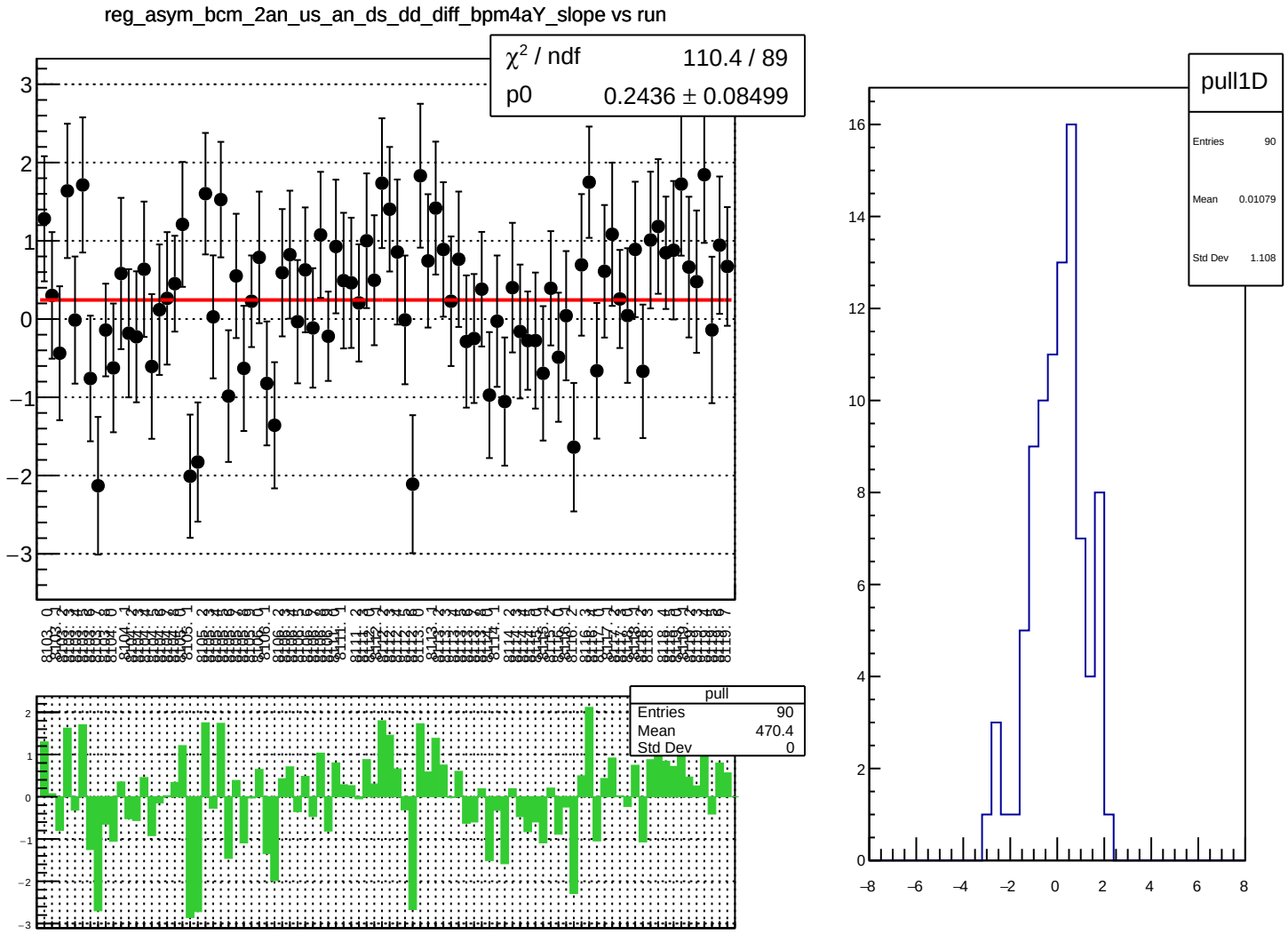

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 113.8 / 89
p0 0.6503 ± 0.248
pull
Entries 90
Mean 493.4
Std Dev 0
pull1D
Entries 90
Mean 0.01154
Std Dev 1.124

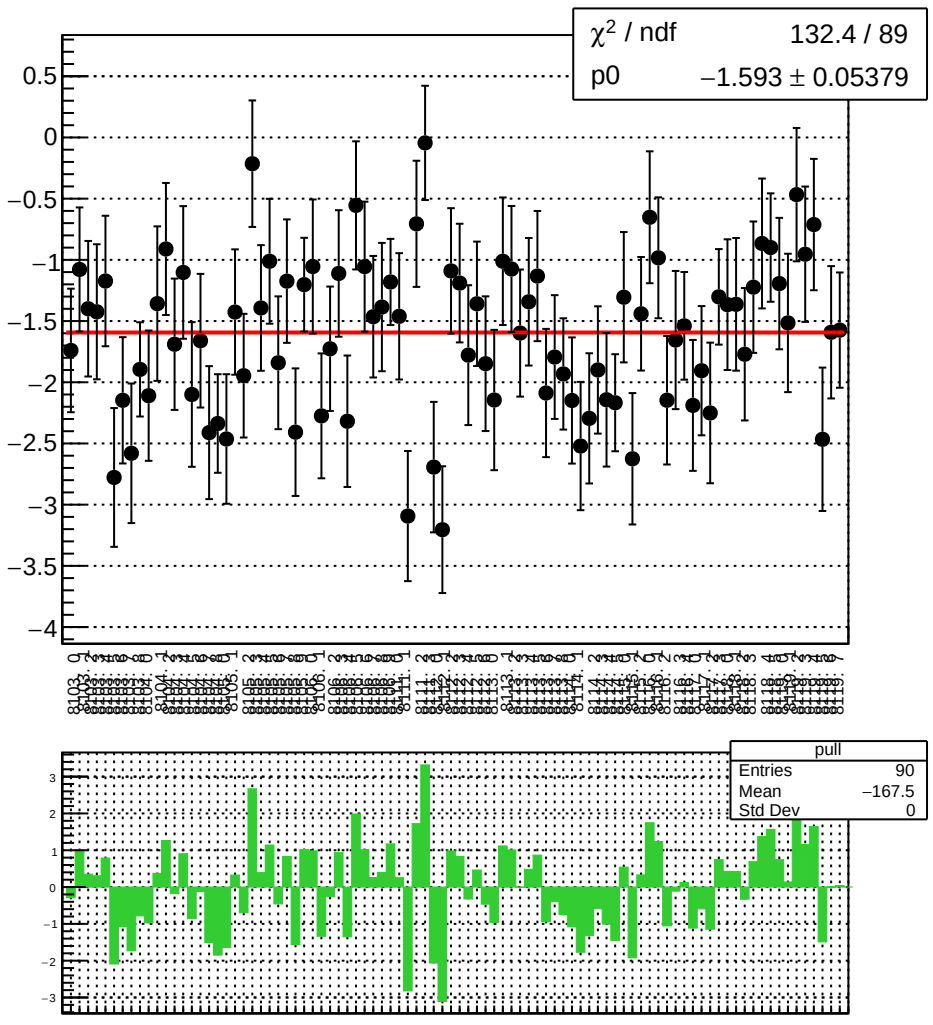

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 132 / 89
p0 −4.759 ± 0.1569
pull
Entries 90
Mean −205.3
Std Dev 0
pull1D
Entries 90
Mean −0.01298
Std Dev 1.211

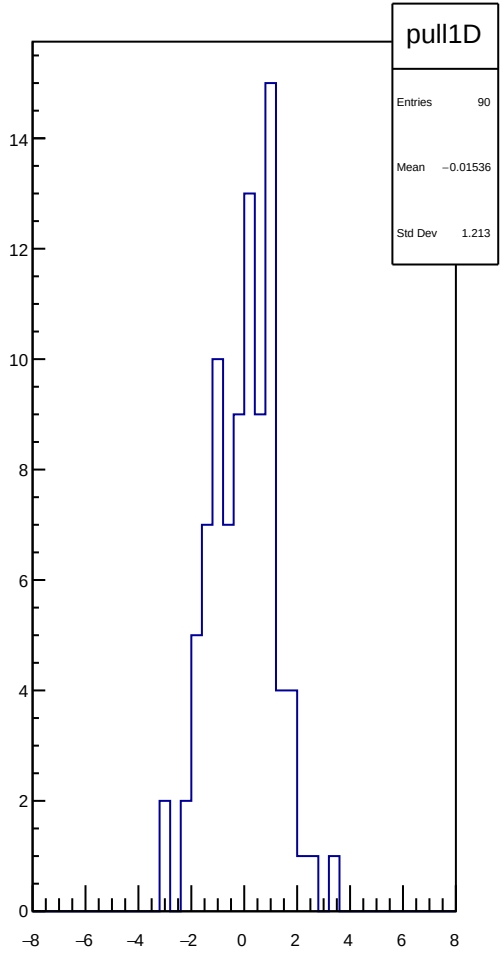

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 114.2 / 89
p0 −0.8569 ± 0.2651
pull
Entries 90
Mean 554.5
Std Dev 0
pull1D
Entries 90
Mean −0.01247
Std Dev 1.126

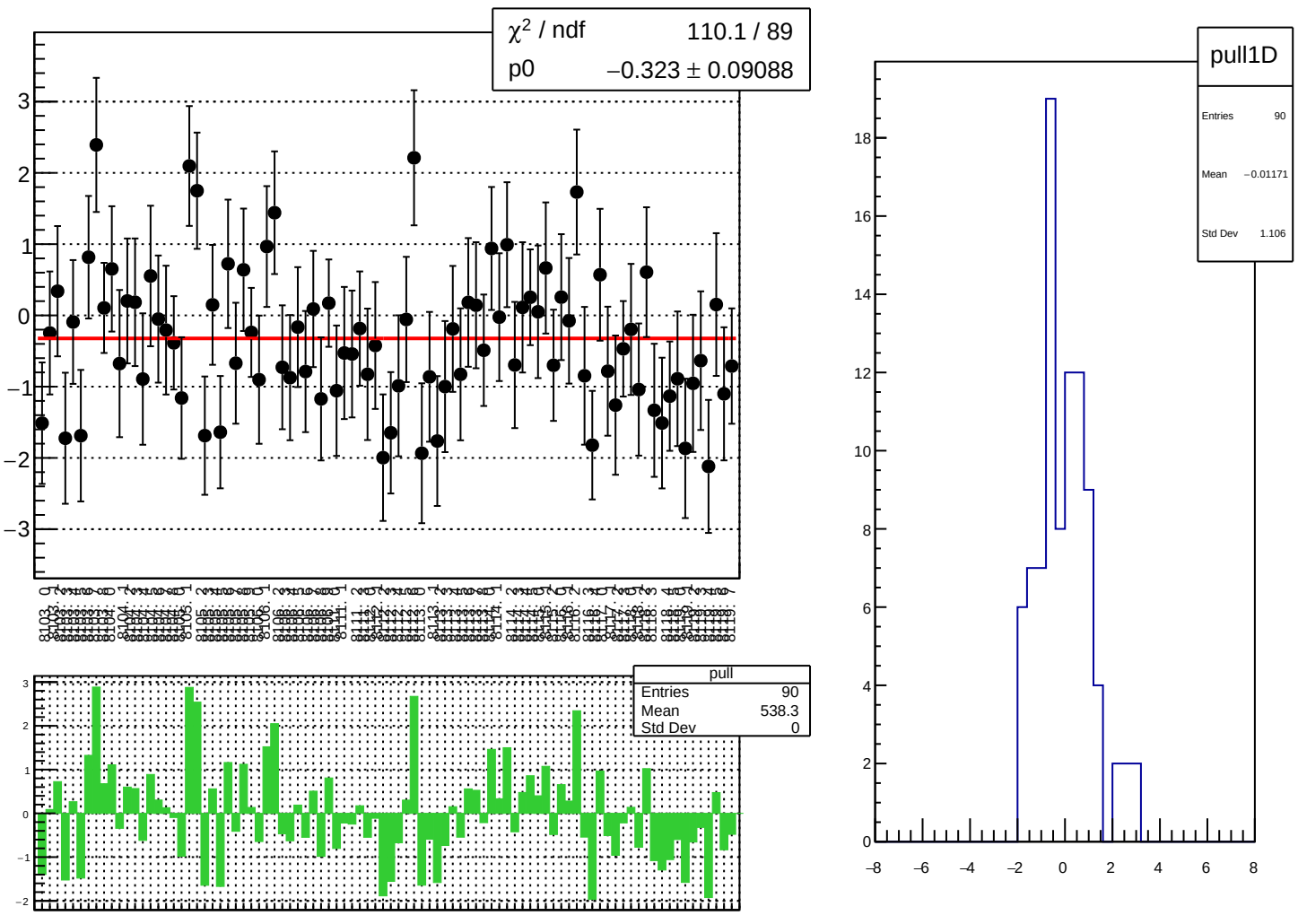

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 95.18 / 89
p0 0.1148 ± 0.009954
pull
Entries 90
Mean −368.4
Std Dev 0
pull1D
Entries 90
Mean 0.01849
Std Dev 1.028

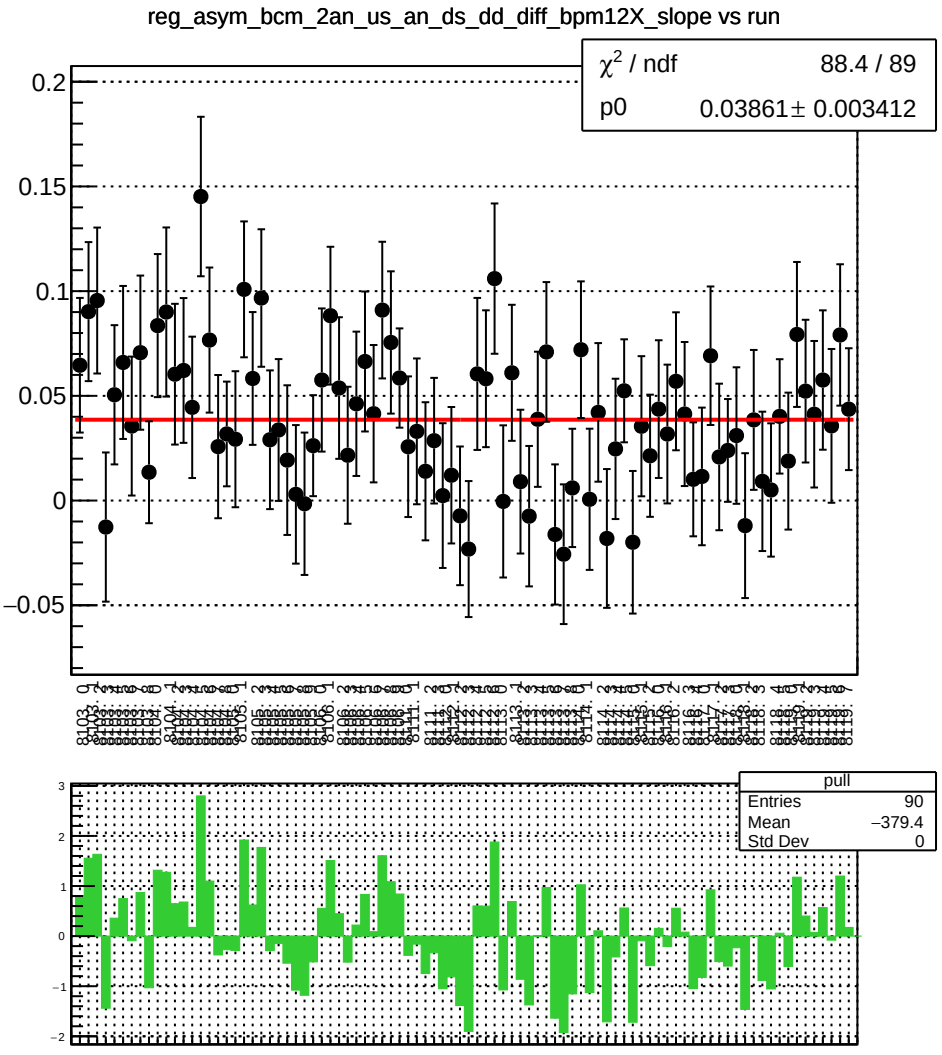

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 134.2 / 89
p0 1.738 ± 0.05656
pull
Entries 90
Mean −233.2
Std Dev 0
pull1D
Entries 90
Mean 0.01592
Std Dev 1.221

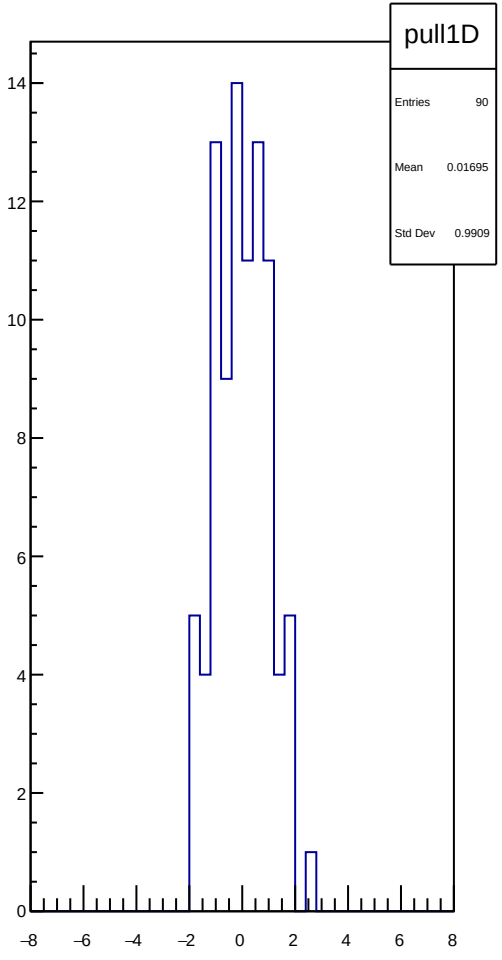

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 110.4 / 89
p0 0.2436 ± 0.08499
pull
Entries 90
Mean 470.4
Std Dev 0
pull1D
Entries 90
Mean 0.01079
Std Dev 1.108

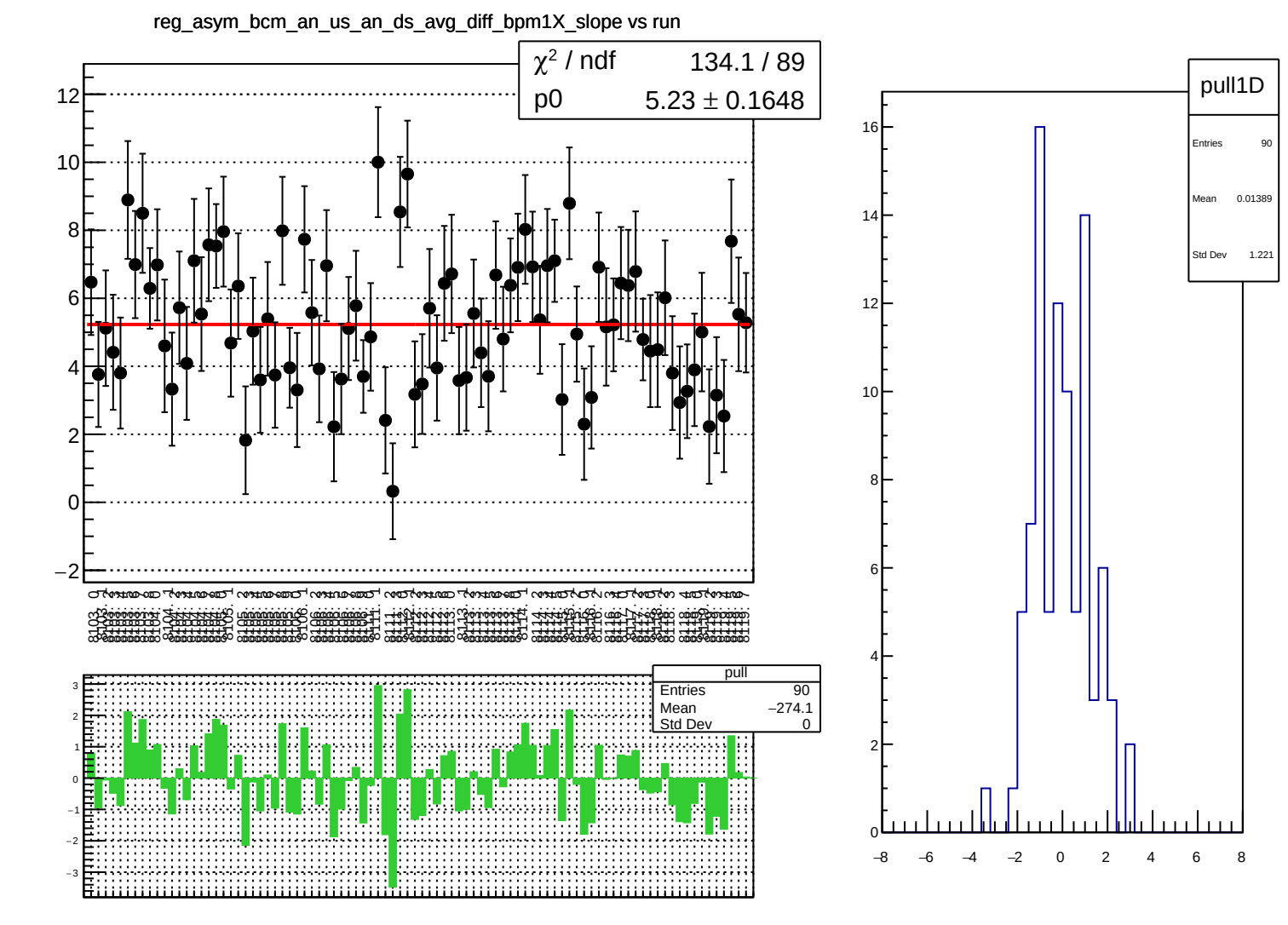

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 132.4 / 89
p0 −1.593 ± 0.05379
pull
Entries 90
Mean −167.5
Std Dev 0

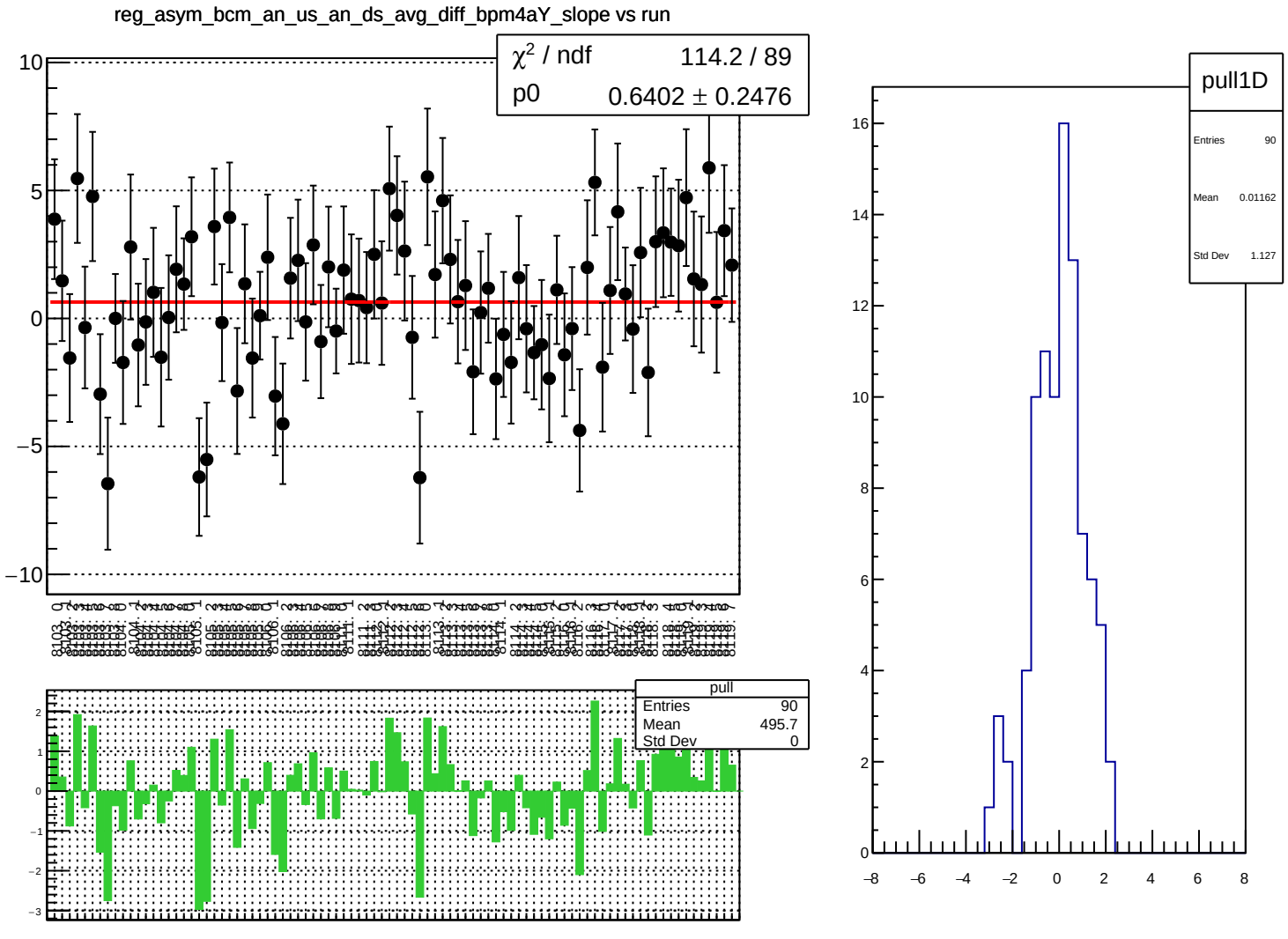

pull1D
Entries 90
Mean −0.01536
Std Dev 1.213

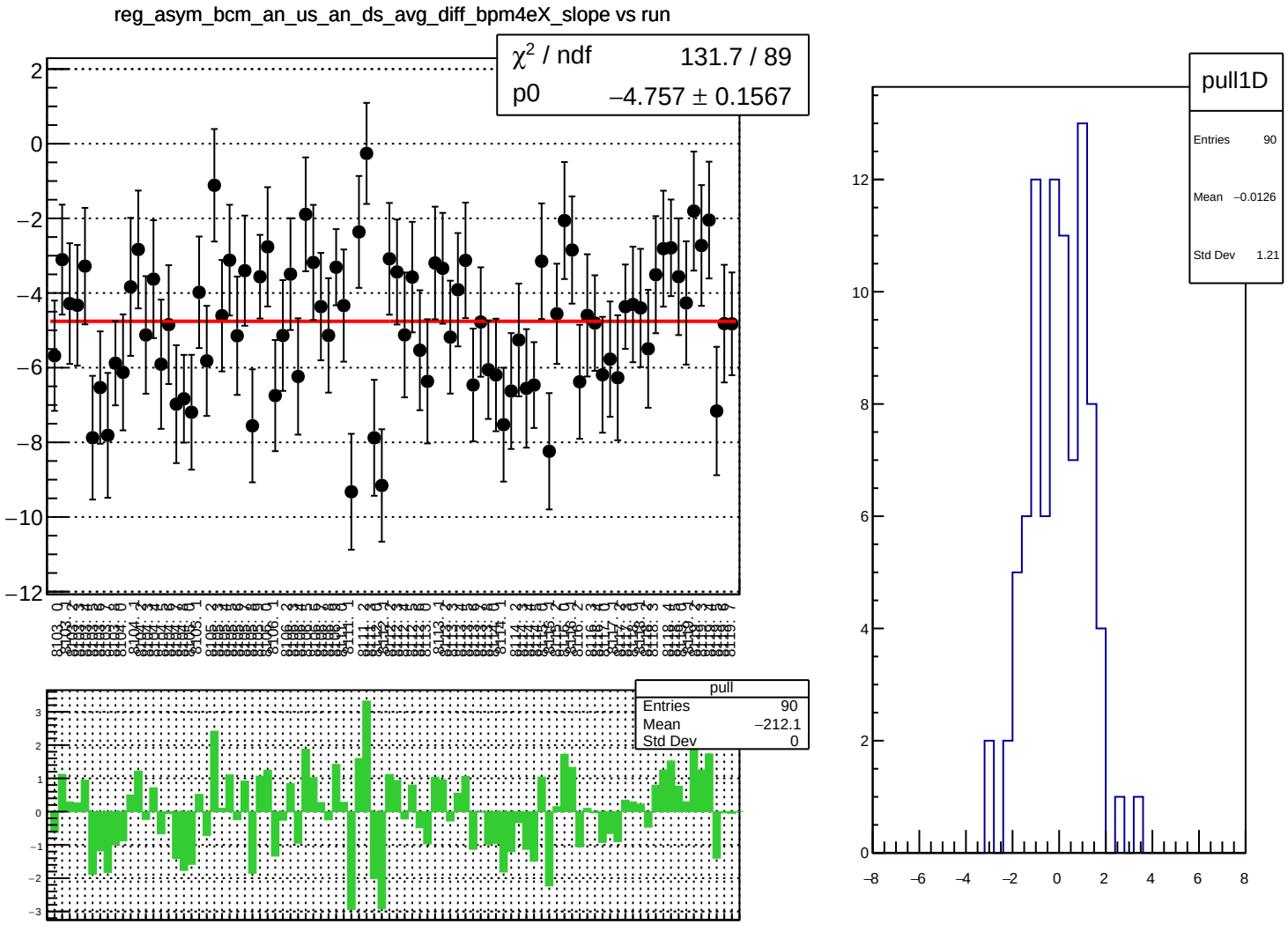

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 110.1 / 89
p0 −0.323 ± 0.09088
pull
Entries 90
Mean 538.3
Std Dev 0
pull1D
Entries 90
Mean −0.01171
Std Dev 1.106

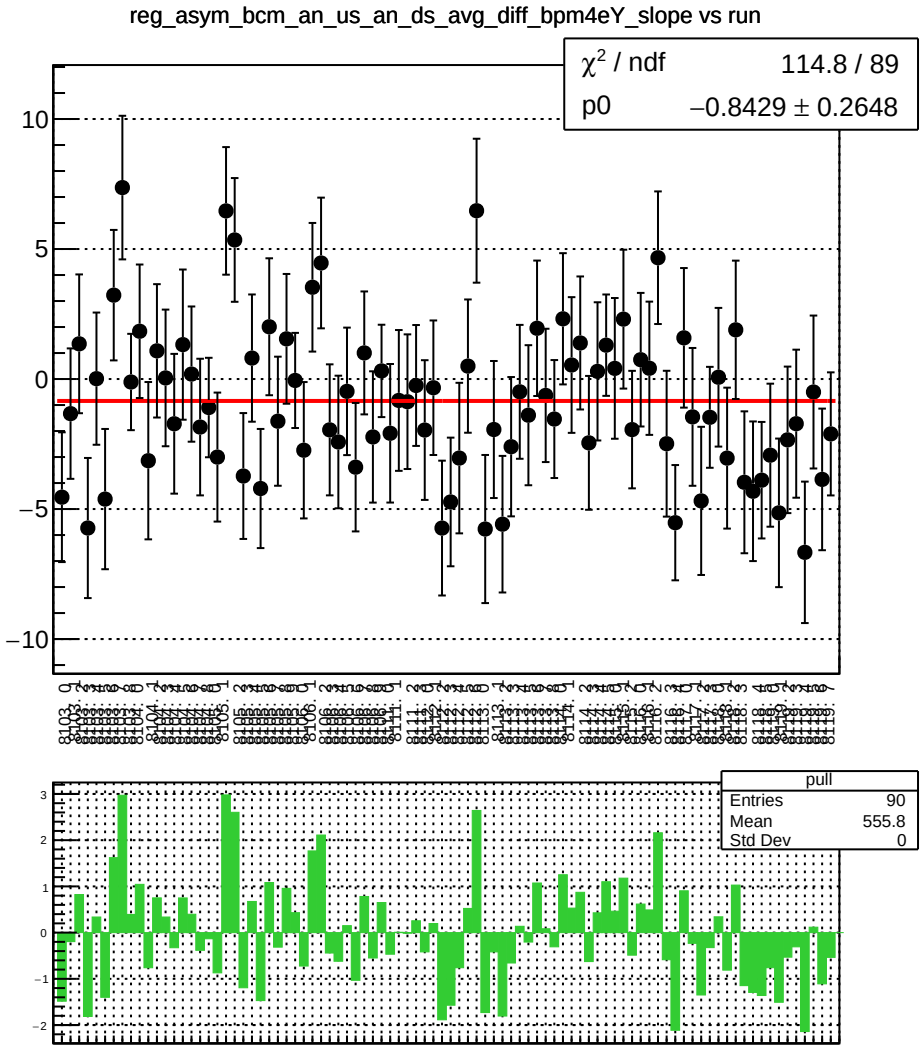

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 88.4 / 89
p0 0.03861 ± 0.003412
pull
Entries 90
Mean −379.4
Std Dev 0

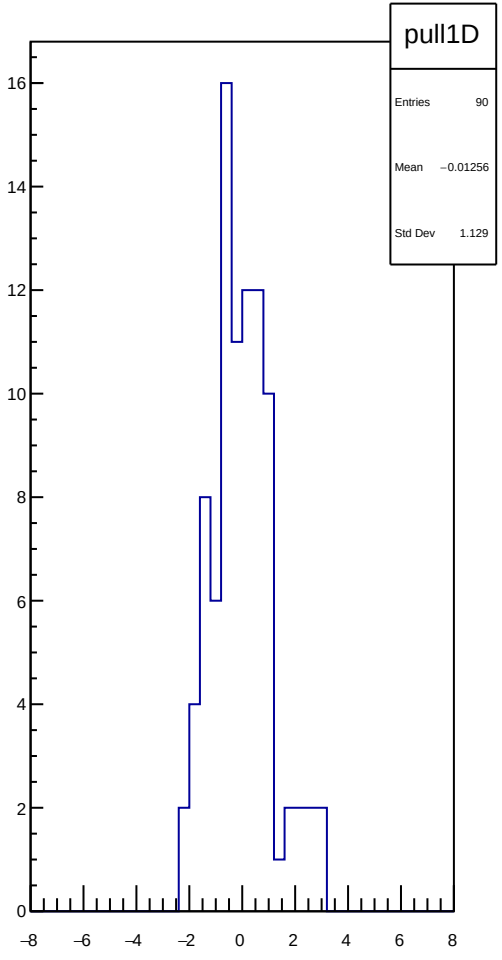

pull1D
Entries 90
Mean 0.01695
Std Dev 0.9909

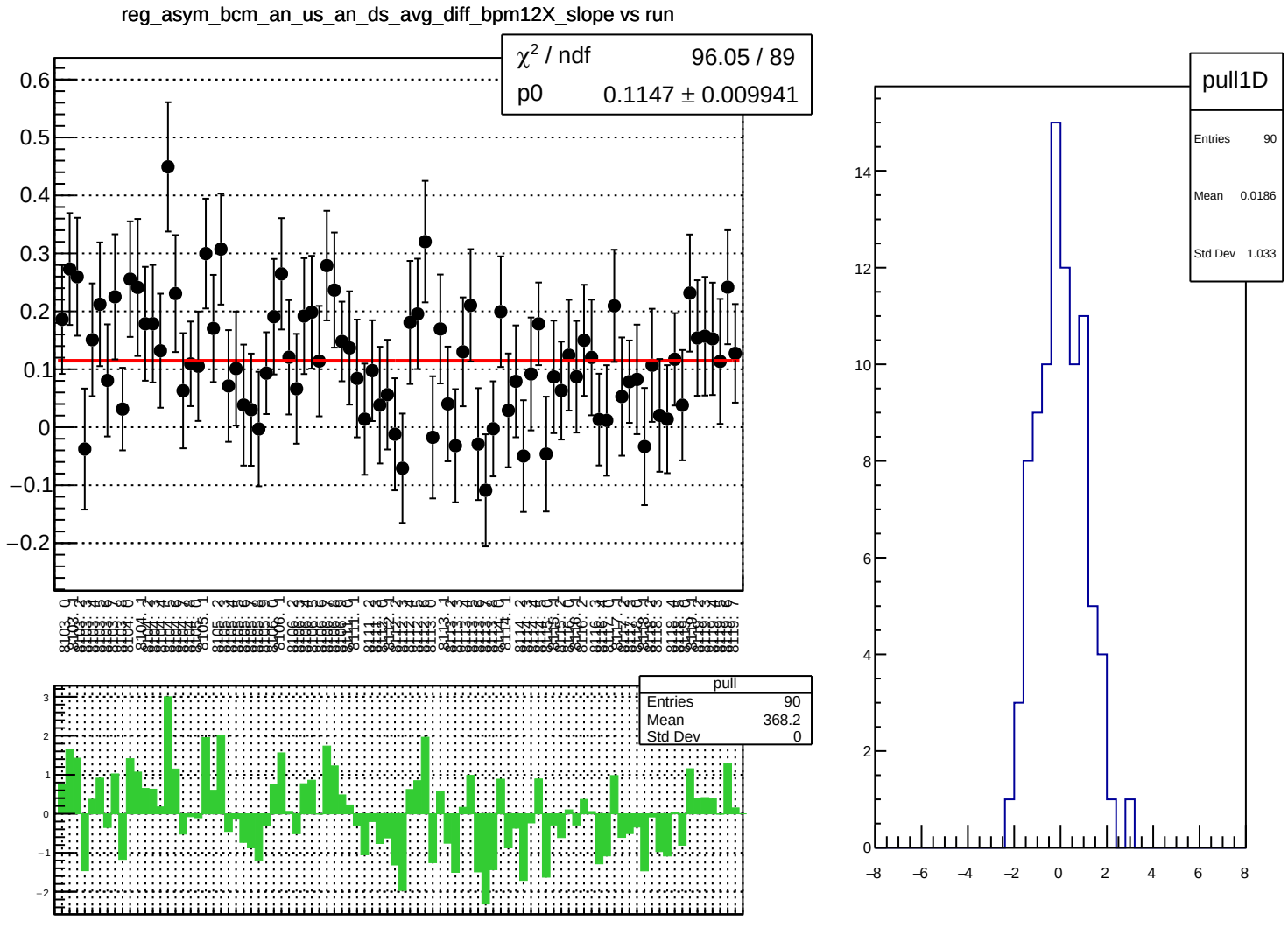

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 134.1 / 89
p0 5.23 ± 0.1648
pull
Entries 90
Mean −274.1
Std Dev 0
pull1D
Entries 90
Mean 0.01389
Std Dev 1.221

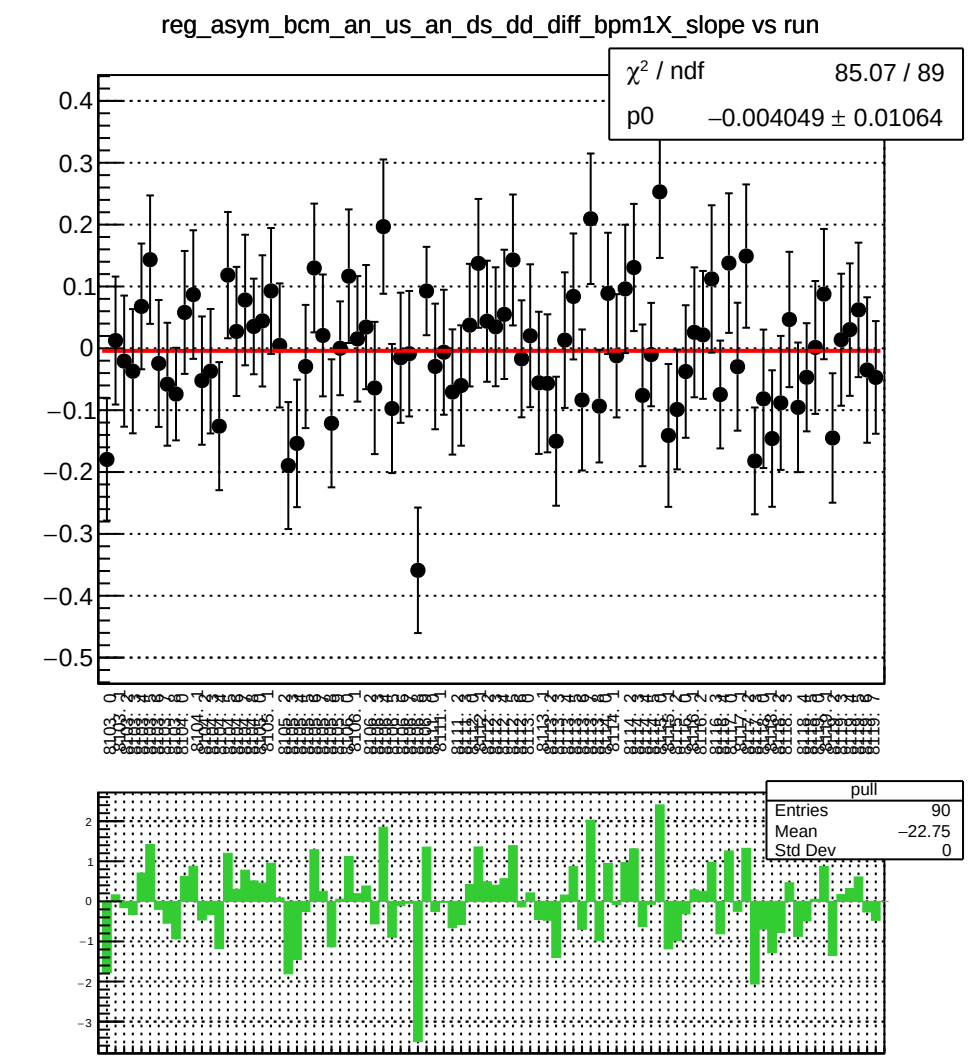

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 114.2 / 89
p0 0.6402 ± 0.2476
pull
Entries 90
Mean 495.7
Std Dev 0
pull1D
Entries 90
Mean 0.01162
Std Dev 1.127

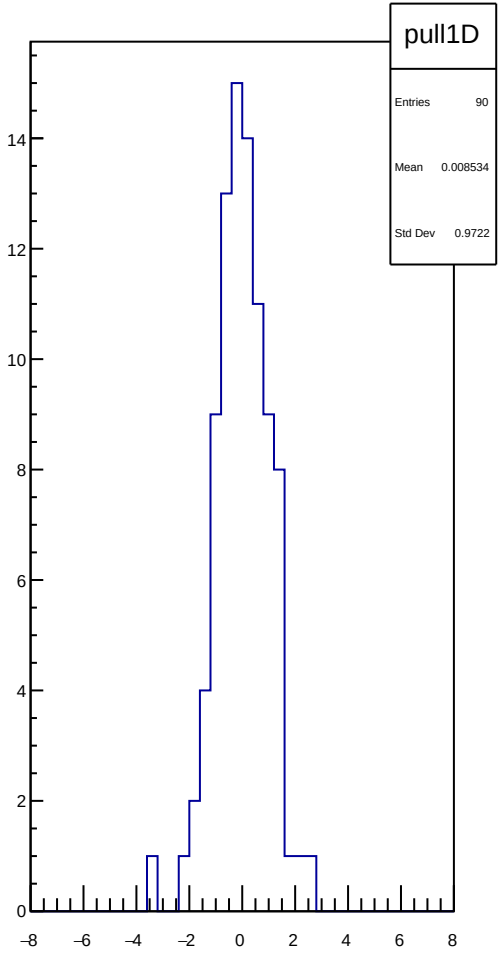

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 131.7 / 89
p0 −4.757 ± 0.1567
pull
Entries 90
Mean −212.1
Std Dev 0
pull1D
Entries 90
Mean −0.0126
Std Dev 1.21

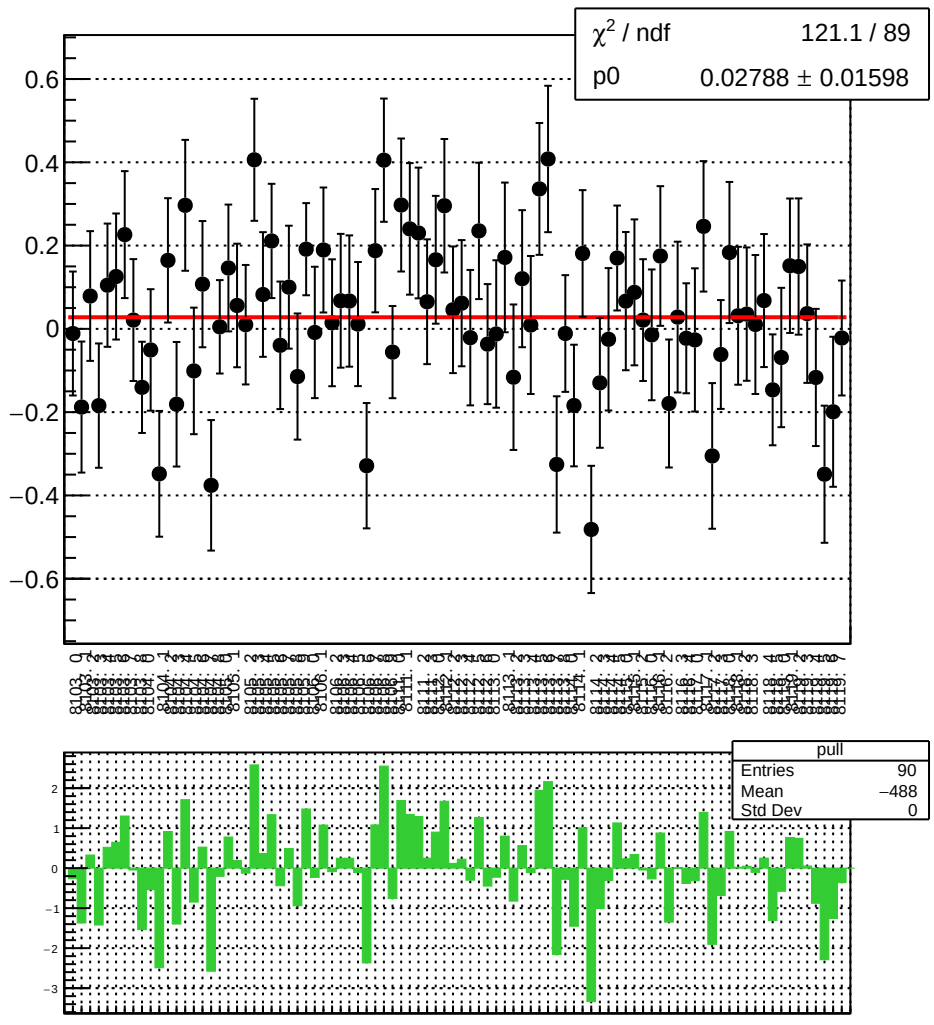

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 114.8 / 89
p0 −0.8429 ± 0.2648
pull
Entries 90
Mean 555.8
Std Dev 0

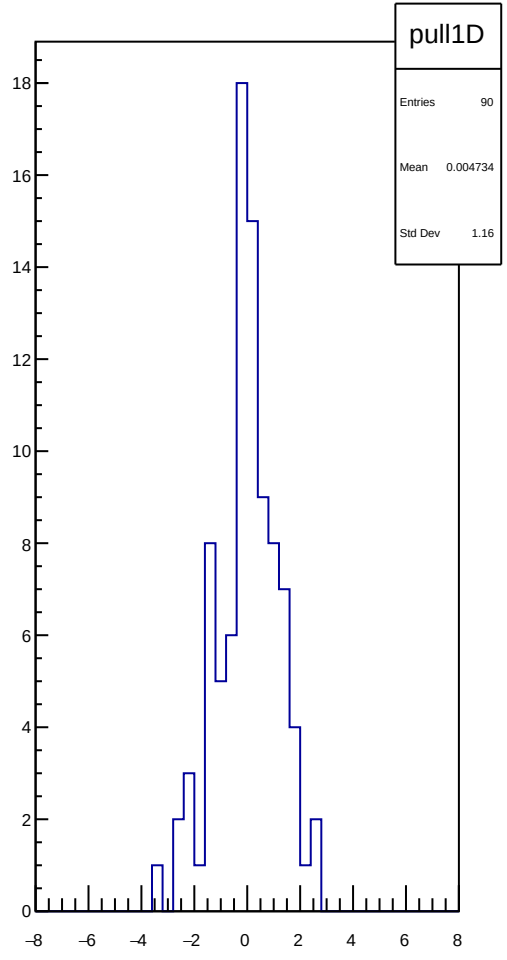

pull1D
Entries 90
Mean −0.01256
Std Dev 1.129

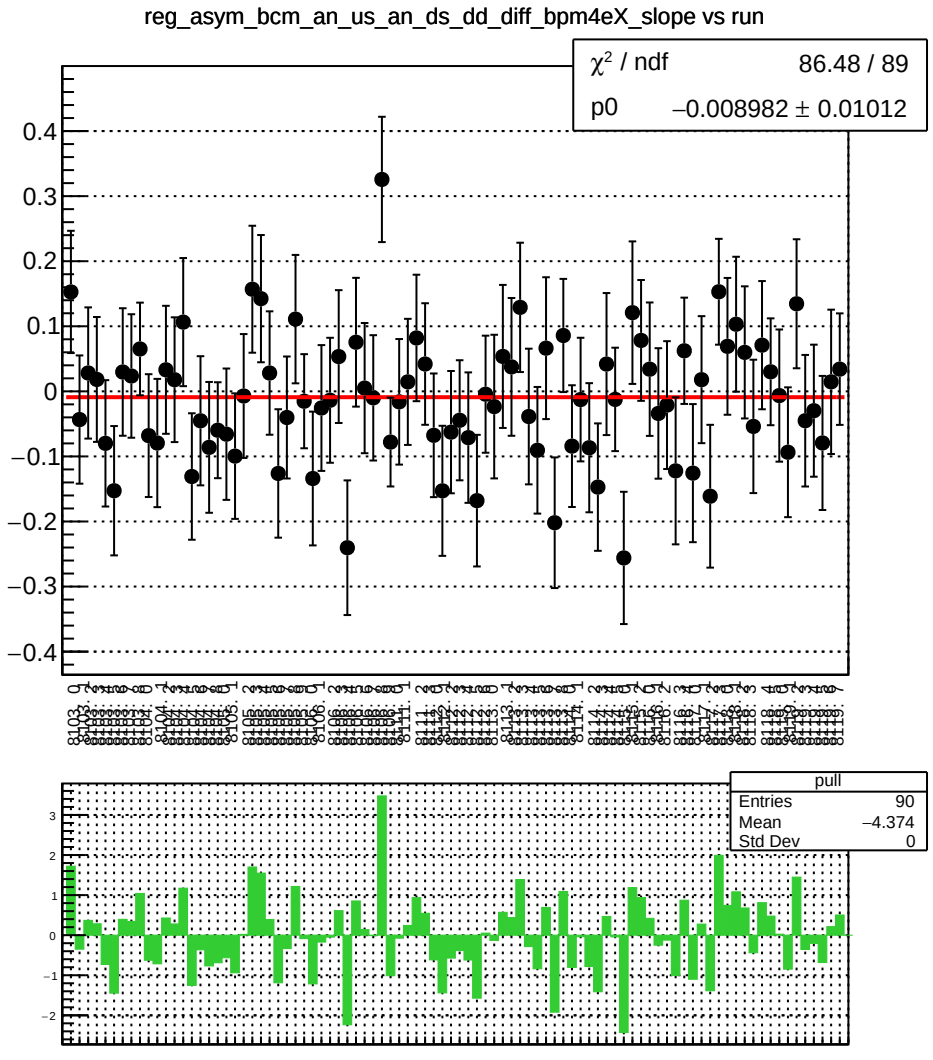

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 96.05 / 89
p0 0.1147 ± 0.009941
pull
Entries 90
Mean −368.2
Std Dev 0
pull1D
Entries 90
Mean 0.0186
Std Dev 1.033

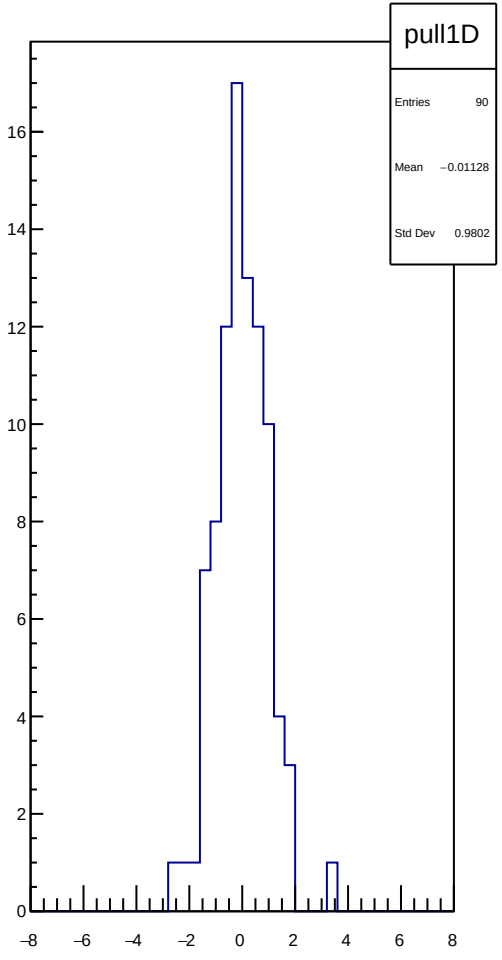

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 85.07 / 89
p0 −0.004049 ± 0.01064
pull
Entries 90
Mean −22.75
Std Dev 0

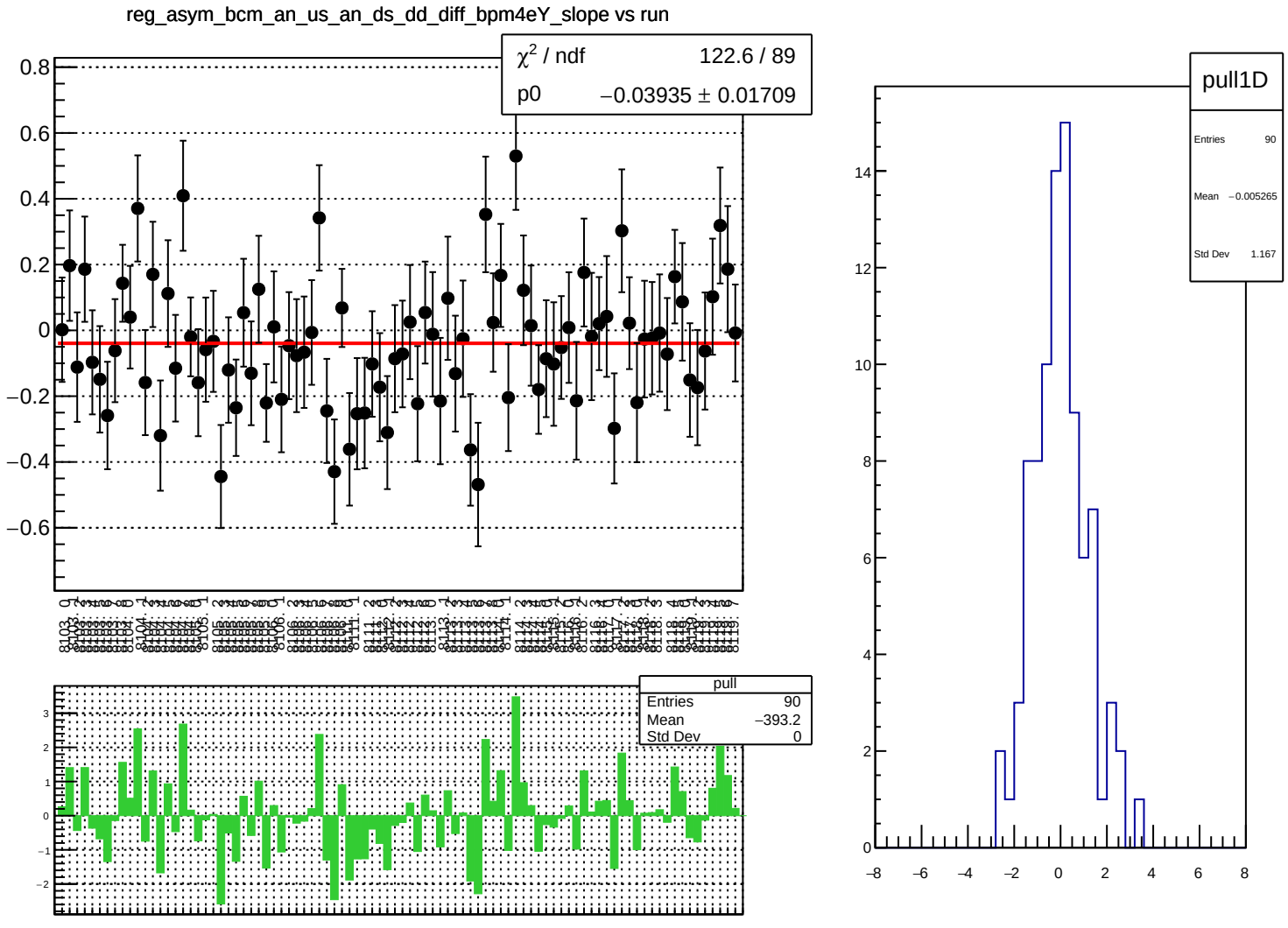

pull1D
Entries 90
Mean 0.008534
Std Dev 0.9722

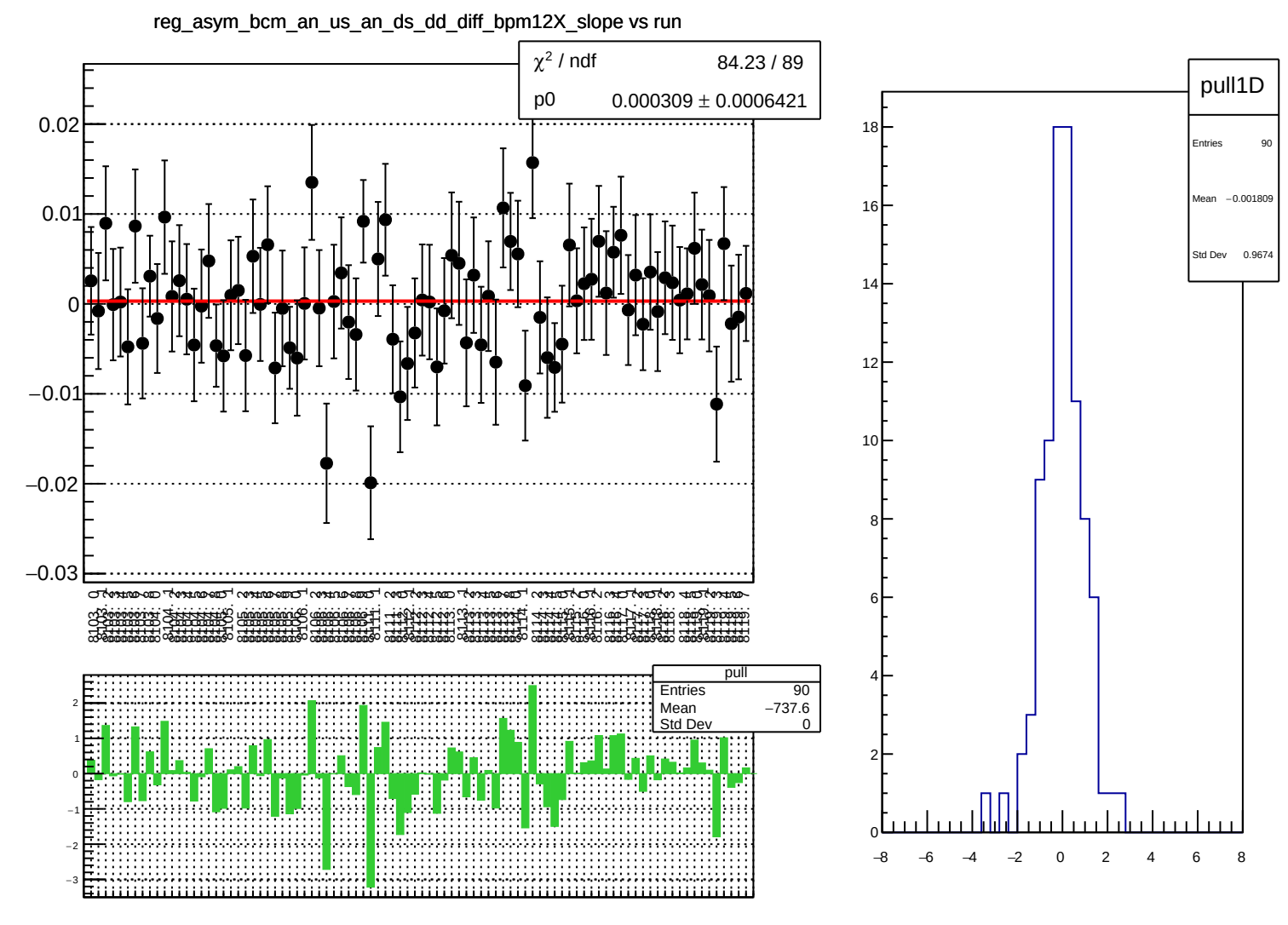

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 121.1 / 89
p0 0.02788 ± 0.01598
pull
Entries 90
Mean −488
Std Dev 0

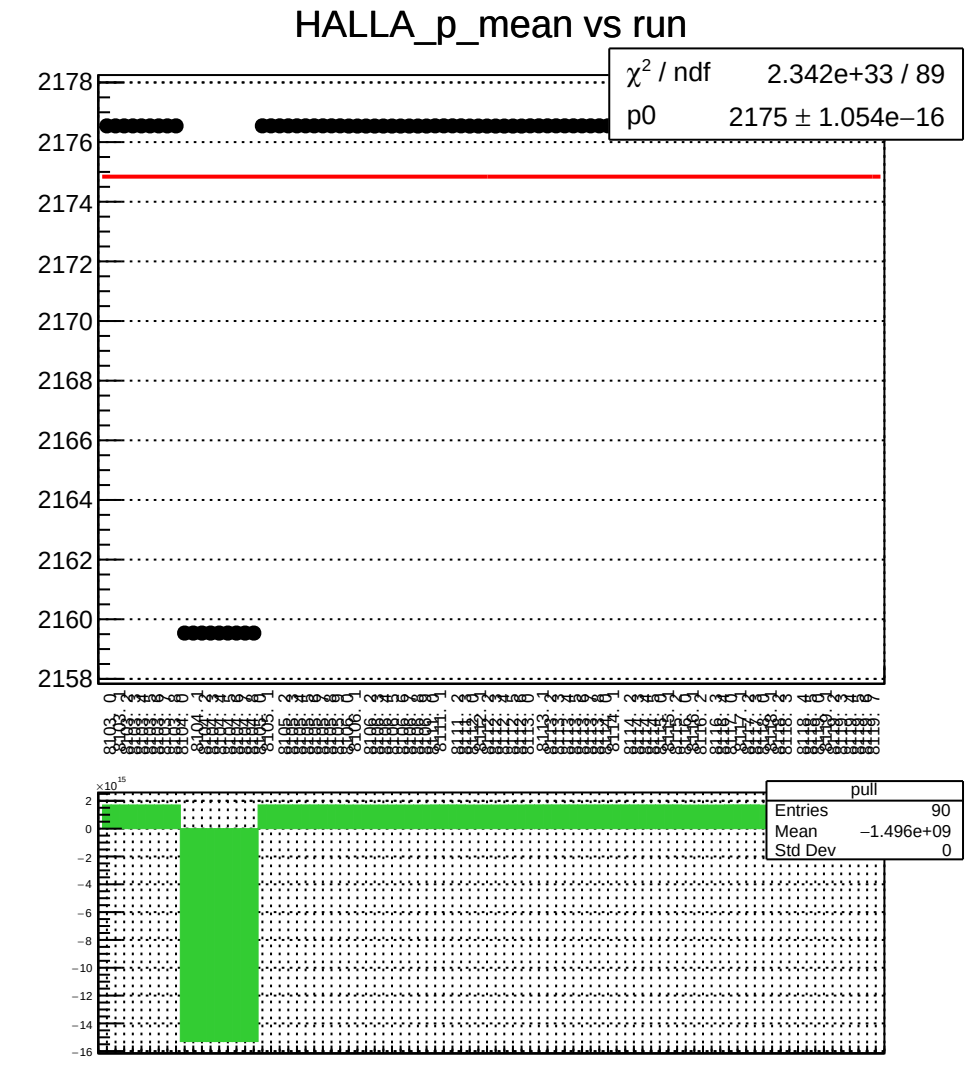

pull1D
Entries 90
Mean 0.004734
Std Dev 1.16

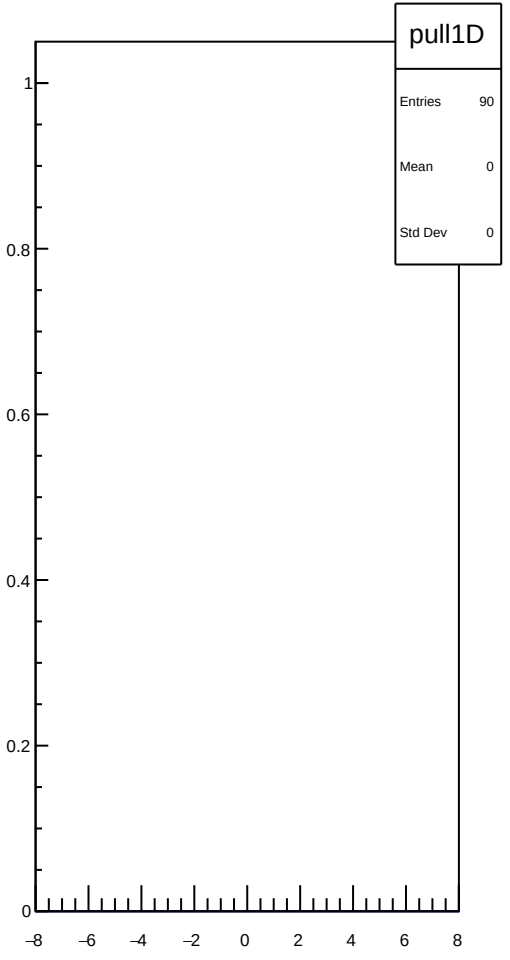

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.48 / 89
p0 −0.008982 ± 0.01012
pull
Entries 90
Mean −4.374
Std Dev 0

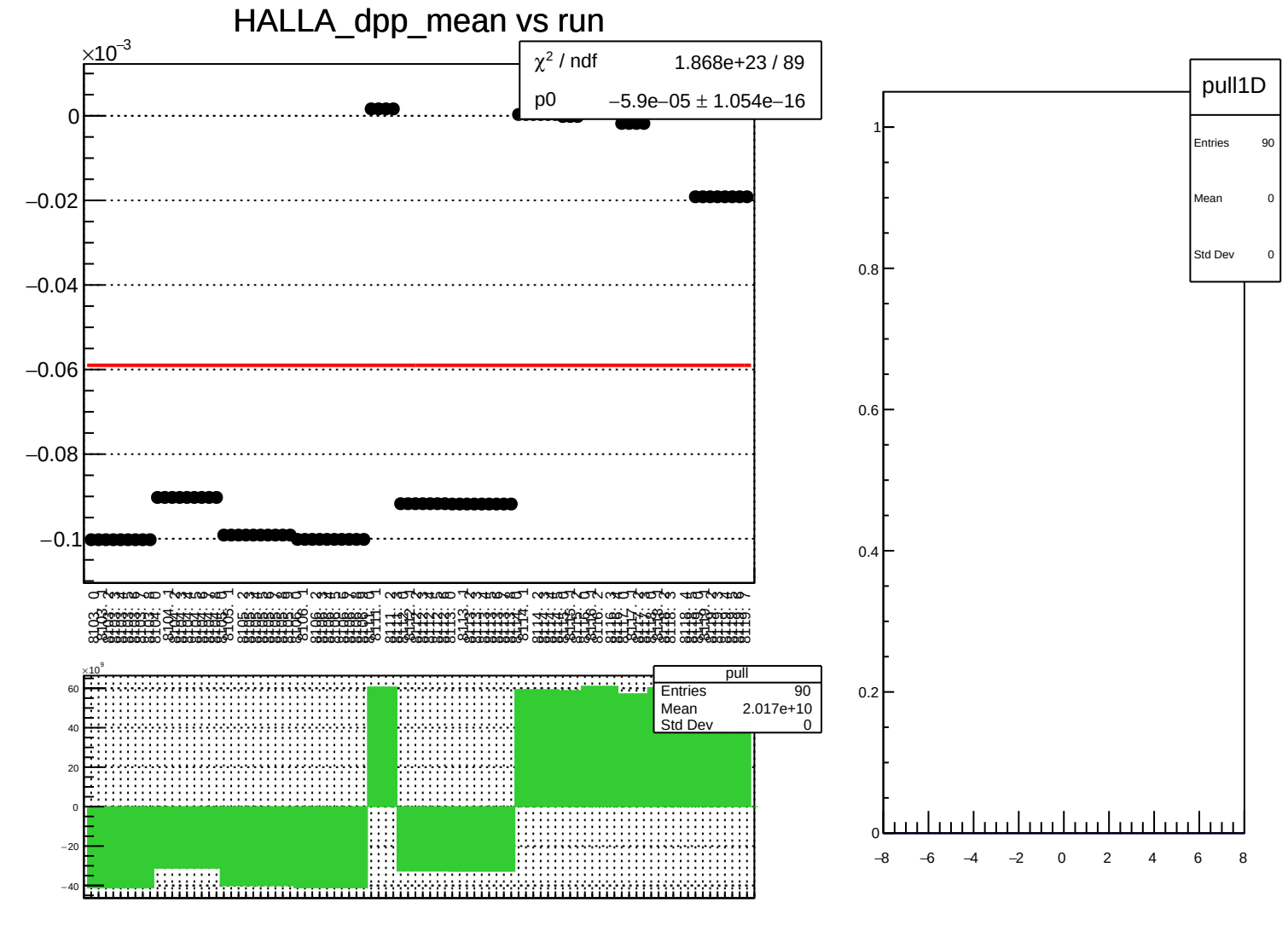

pull1D
Entries 90
Mean −0.01128
Std Dev 0.9802

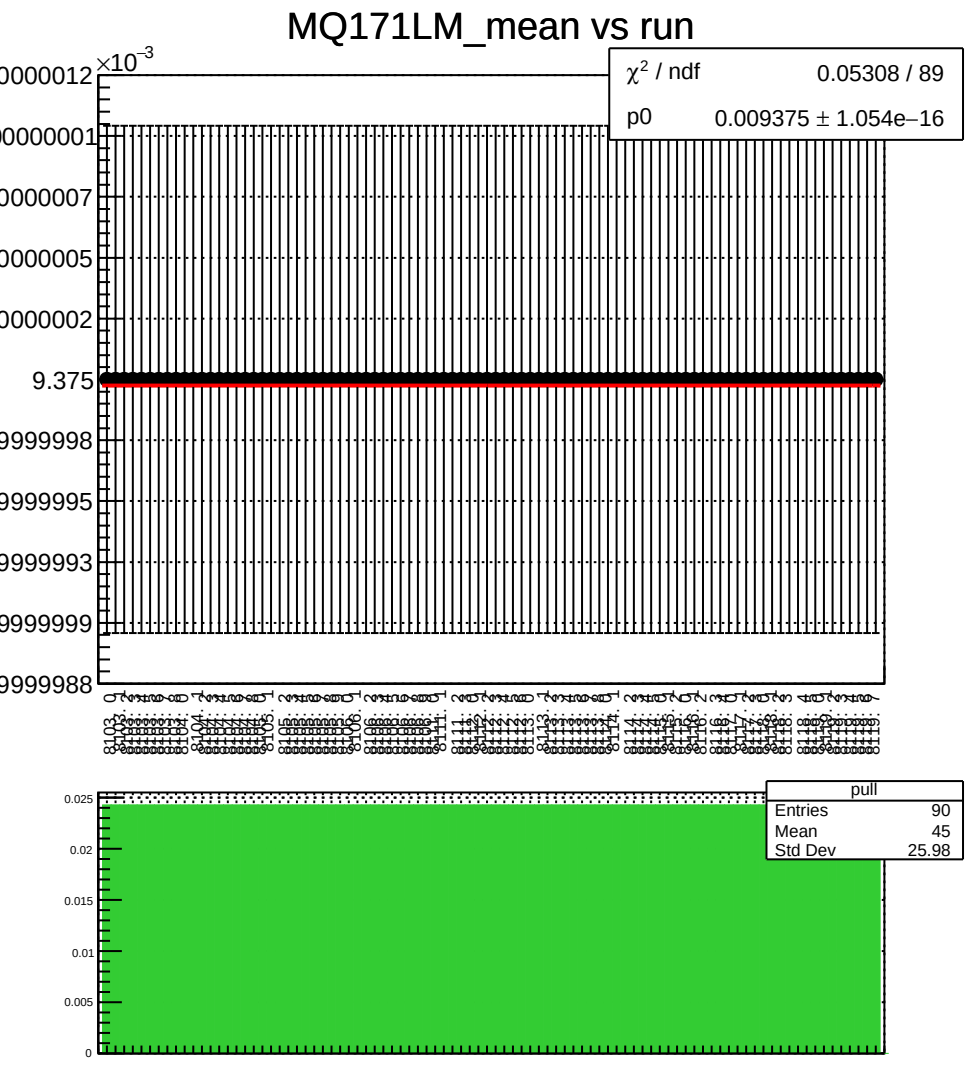

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 122.6 / 89
p0 −0.03935 ± 0.01709
pull
Entries 90
Mean −393.2
Std Dev 0
pull1D
Entries 90
Mean −0.005265
Std Dev 1.167

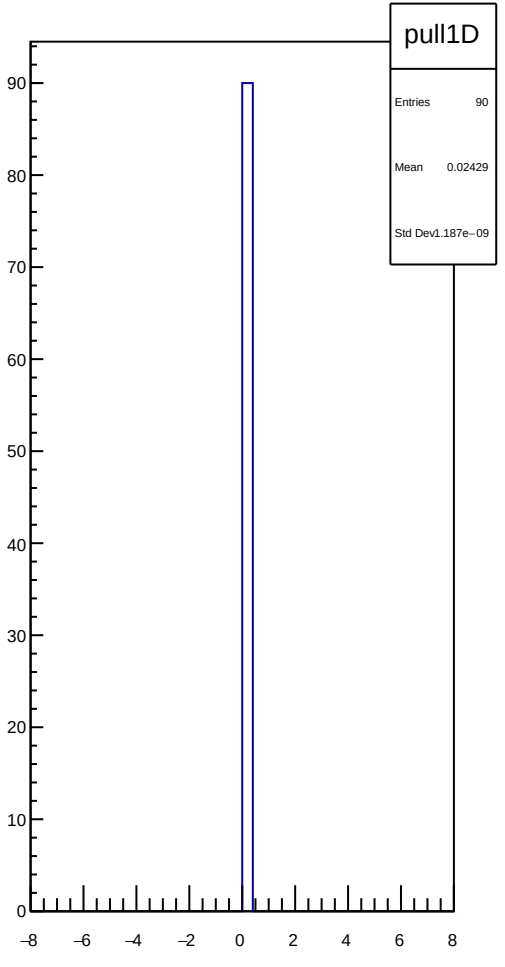

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 84.23 / 89
p0 0.000309 ± 0.0006421
pull
Entries 90
Mean −737.6
Std Dev 0
pull1D
Entries 90
Mean −0.001809
Std Dev 0.9674

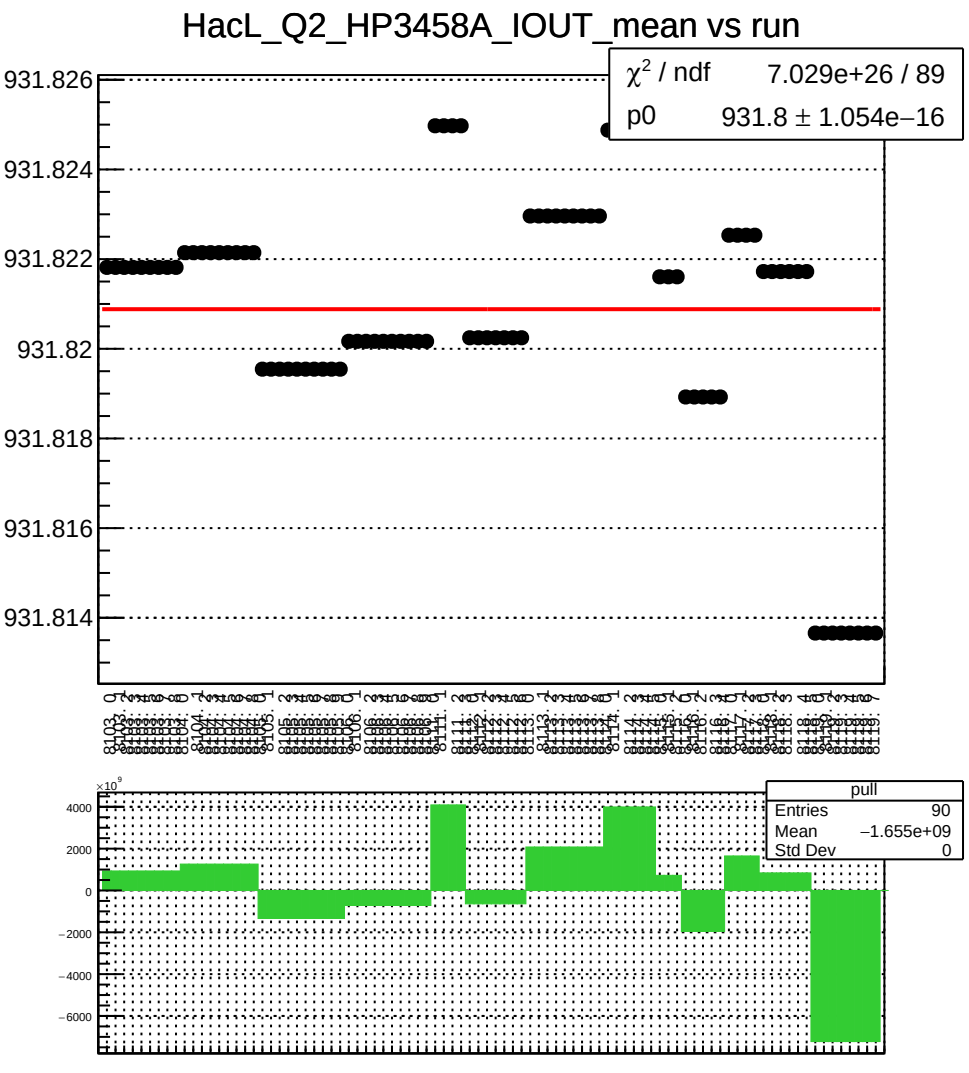

HALLA_p_mean vs run
χ² / ndf 2.342e+33 / 89
p0 2175 ± 1.054e−16
2178
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 90
Mean −1.496e+09
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

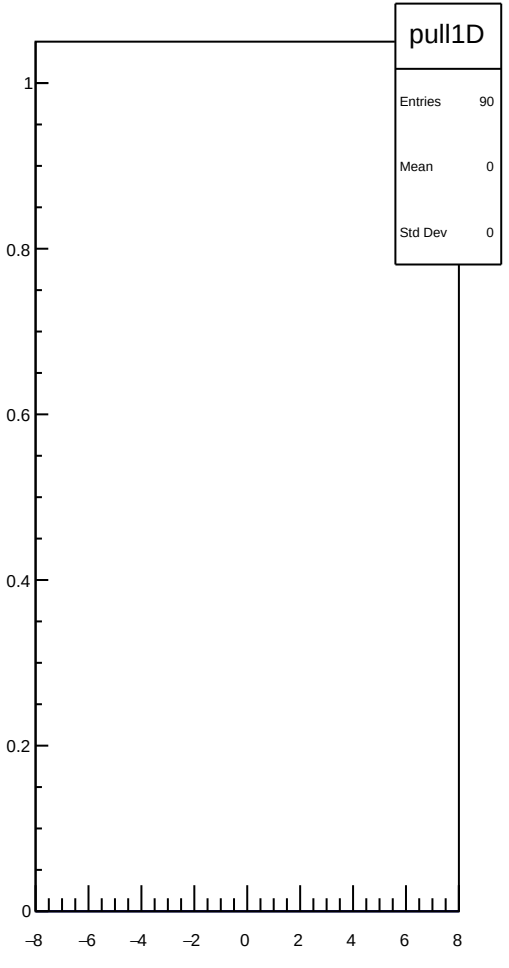

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

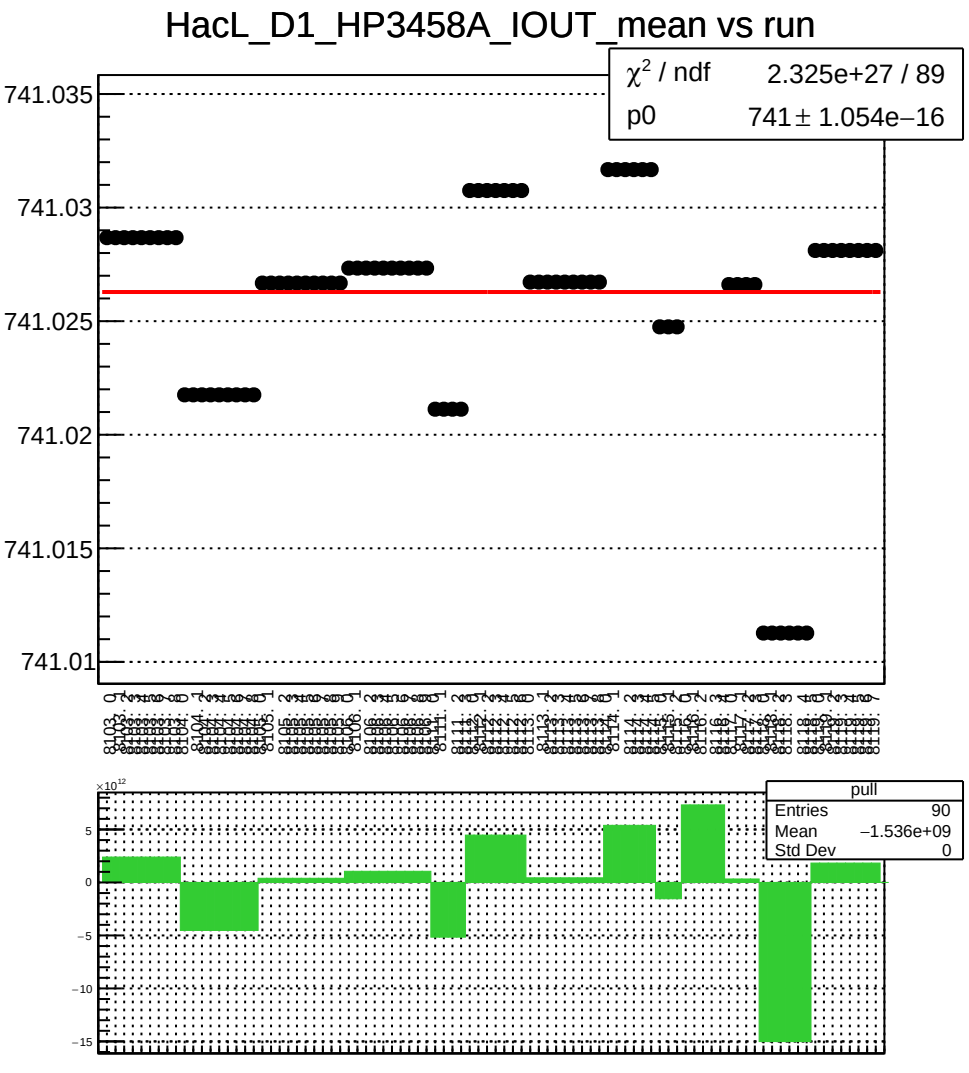

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.868e+23 / 89
p0 −5.9e−05 ± 1.054e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
pull
Entries 90
Mean 2.017e+10
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

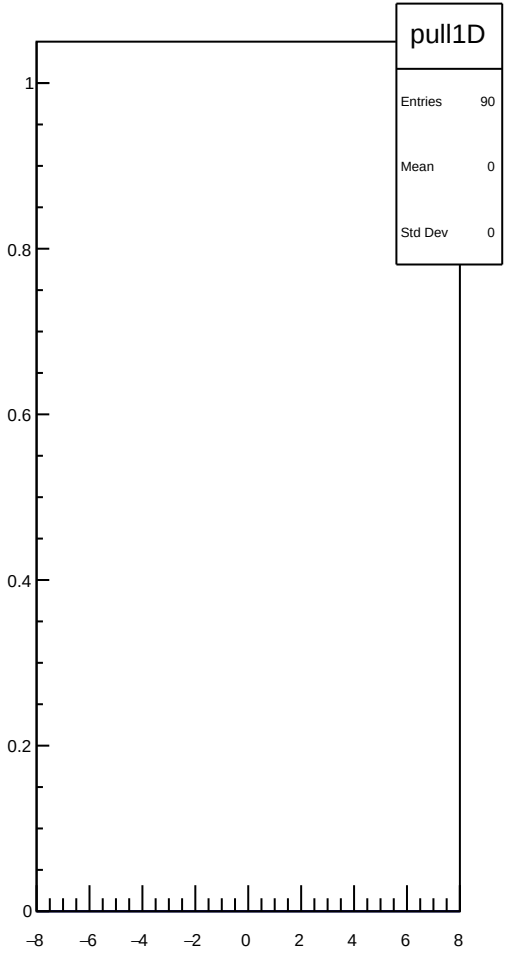

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
pull
Entries 90
Mean 45
Std Dev 25.98

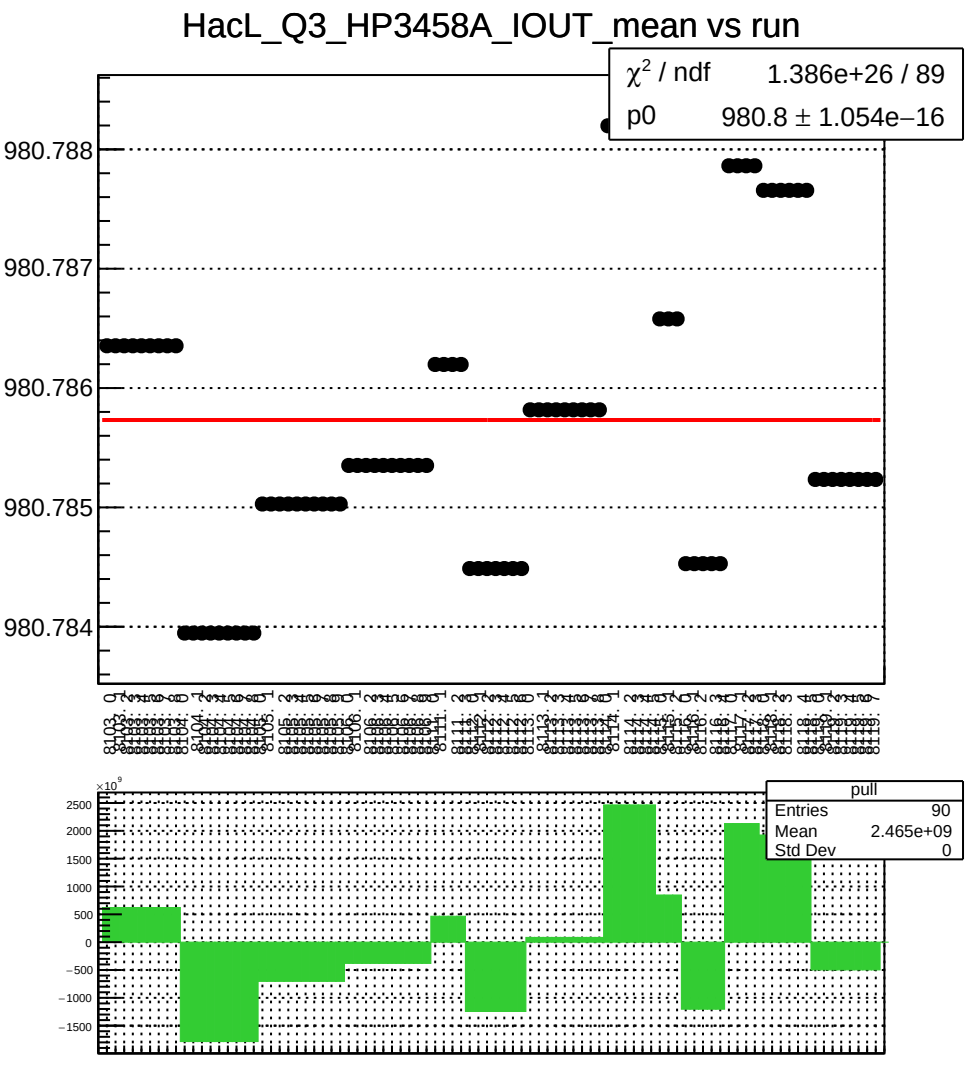

pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09

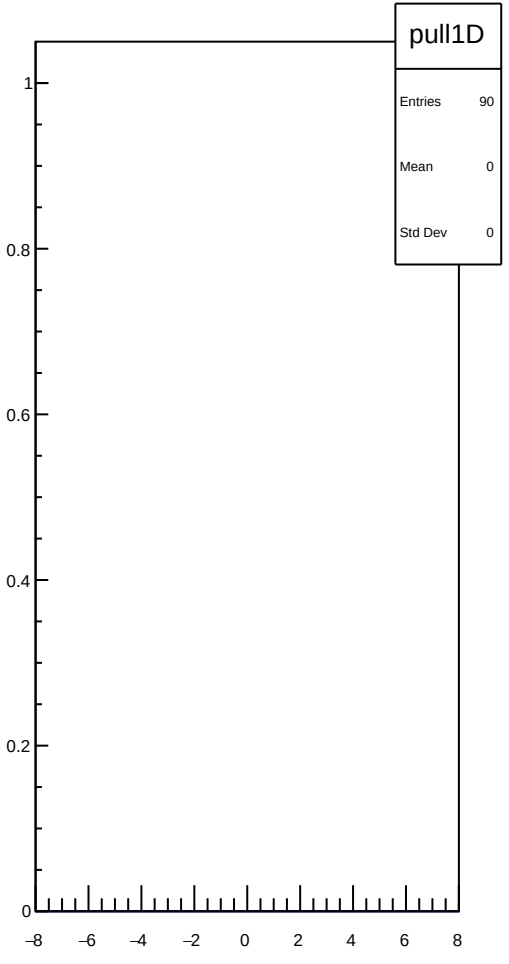

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 7.029e+26 / 89
p0 931.8 ± 1.054e−16
931.826
931.824
931.822
931.82
931.818
931.816
931.814
pull
Entries 90
Mean −1.655e+09
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
−6000

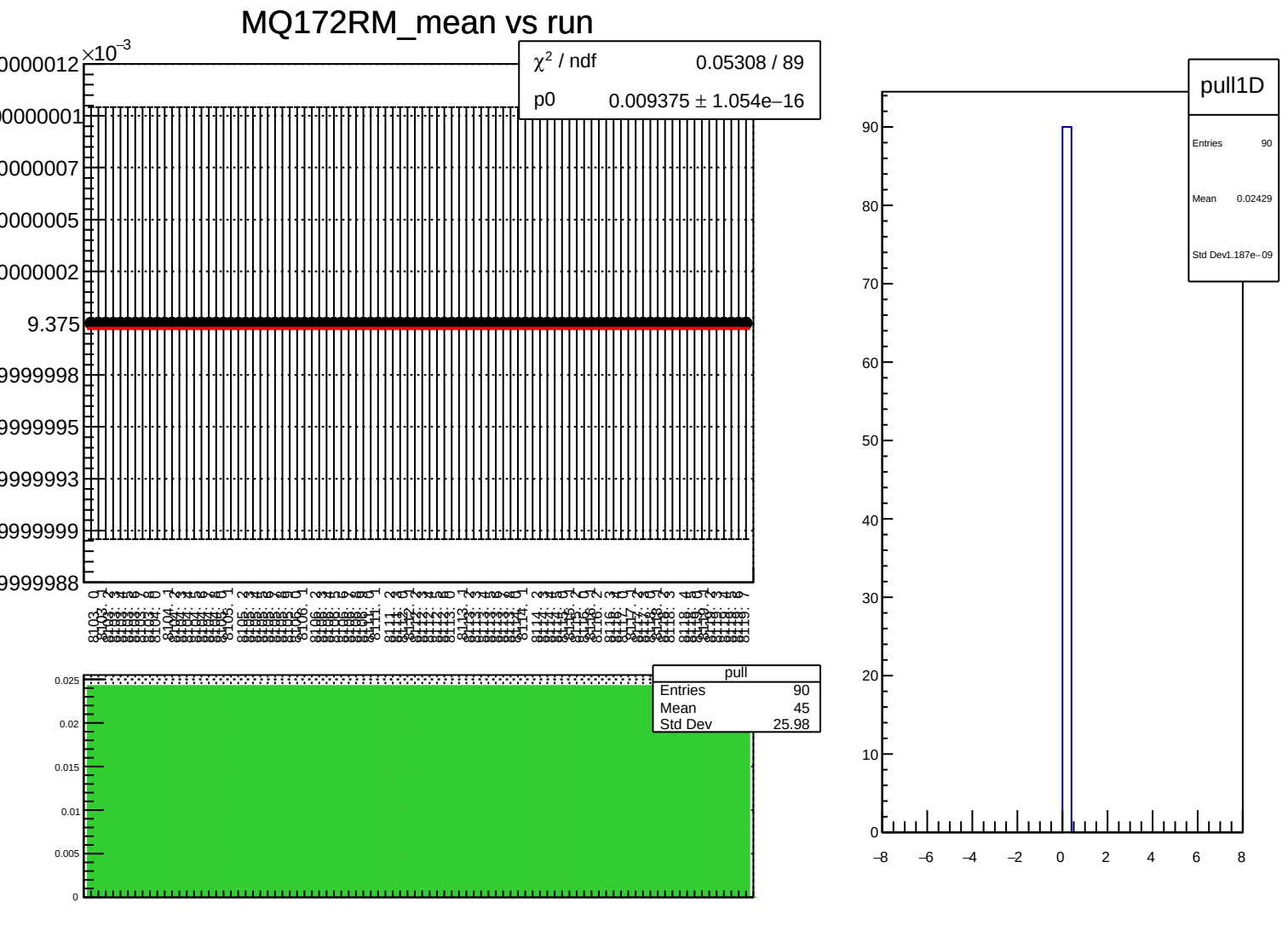

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

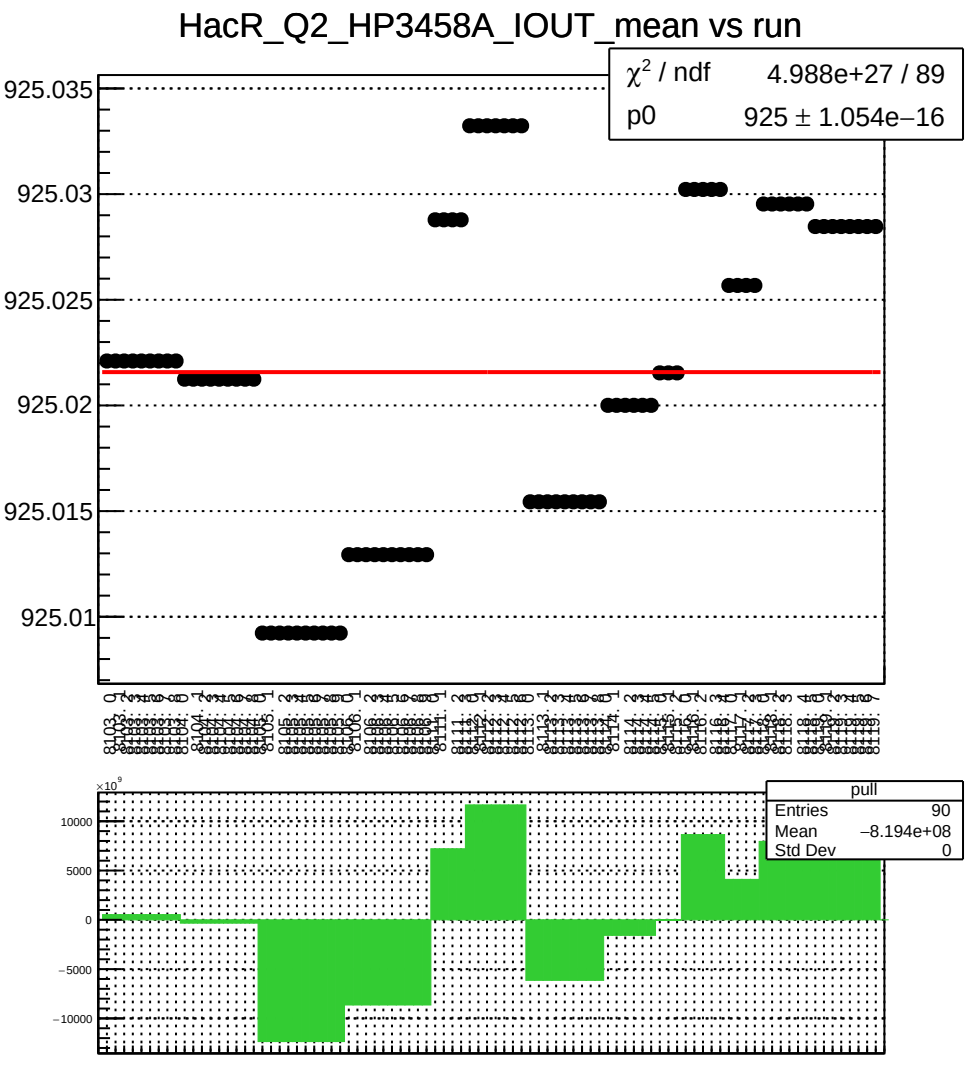

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.325e+27 / 89
p0 741 ± 1.054e−16
741.035
741.03
741.025
741.02
741.015
741.01
pull
Entries 90
Mean −1.536e+09
Std Dev 0
×10¹²
5
0
−5
−10
−15

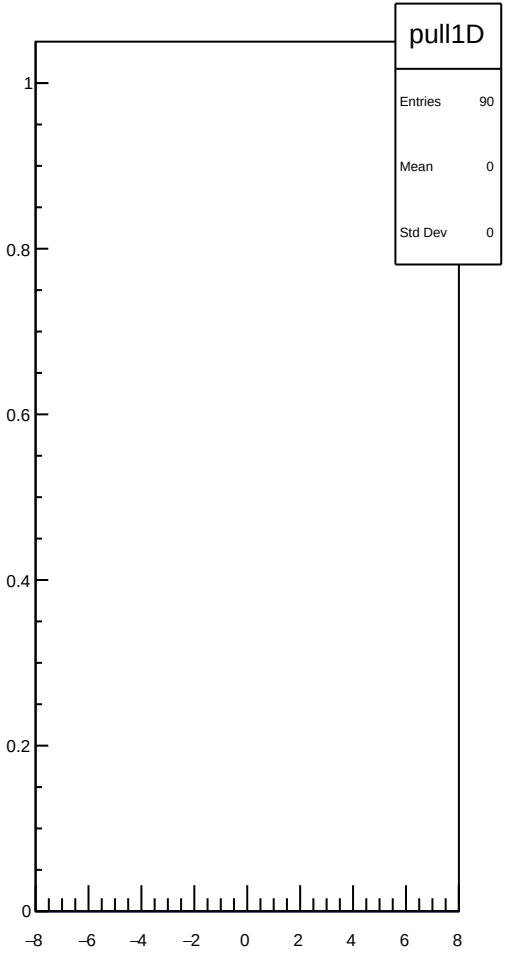

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

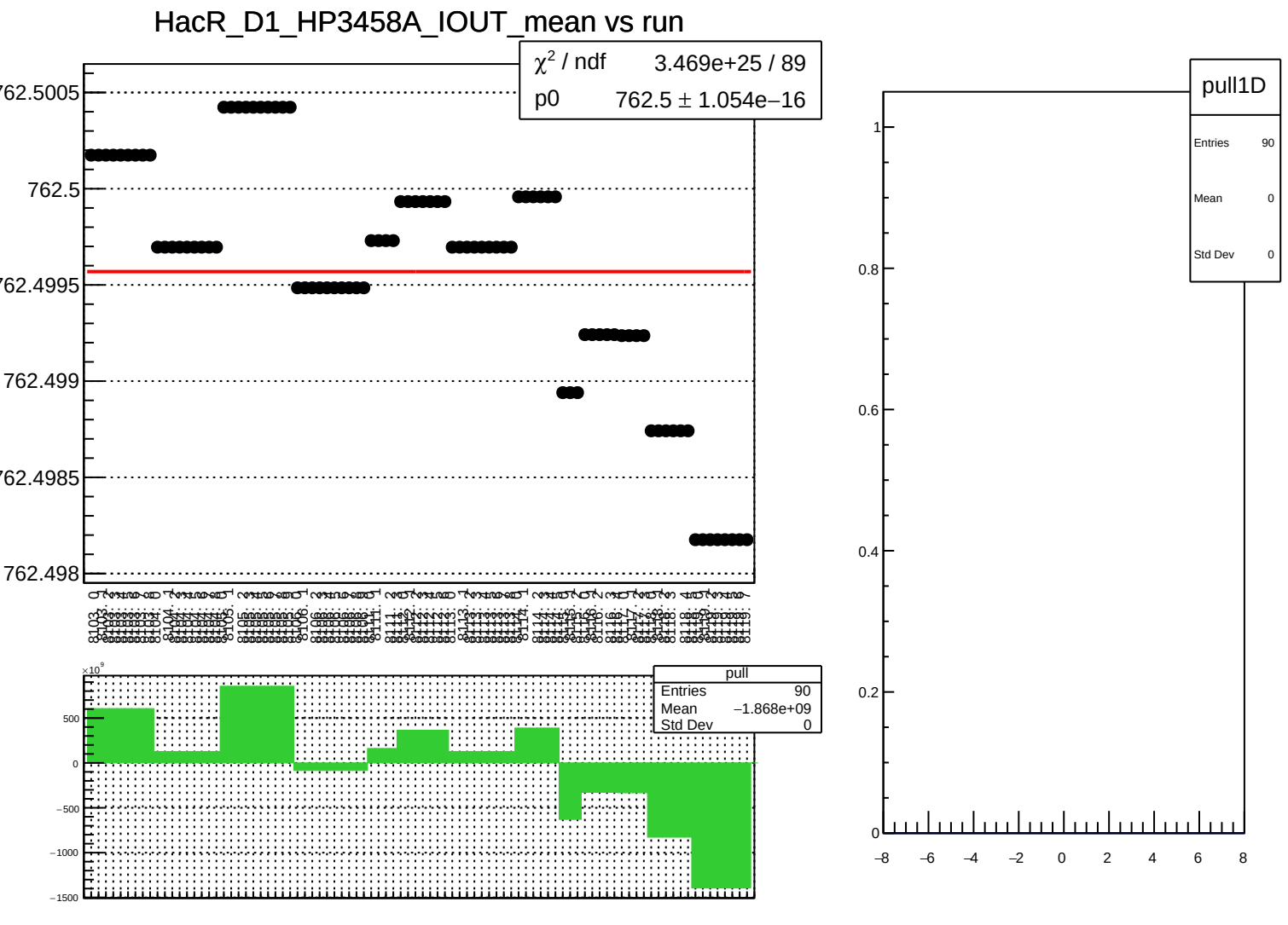

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.386e+26 / 89
p0 980.8 ± 1.054e−16
980.788
980.787
980.786
980.785
980.784
pull
Entries 90
Mean 2.465e+09
Std Dev 0
×10⁹
2500
2000
1500
1000
500
0
−500
−1000
−1500

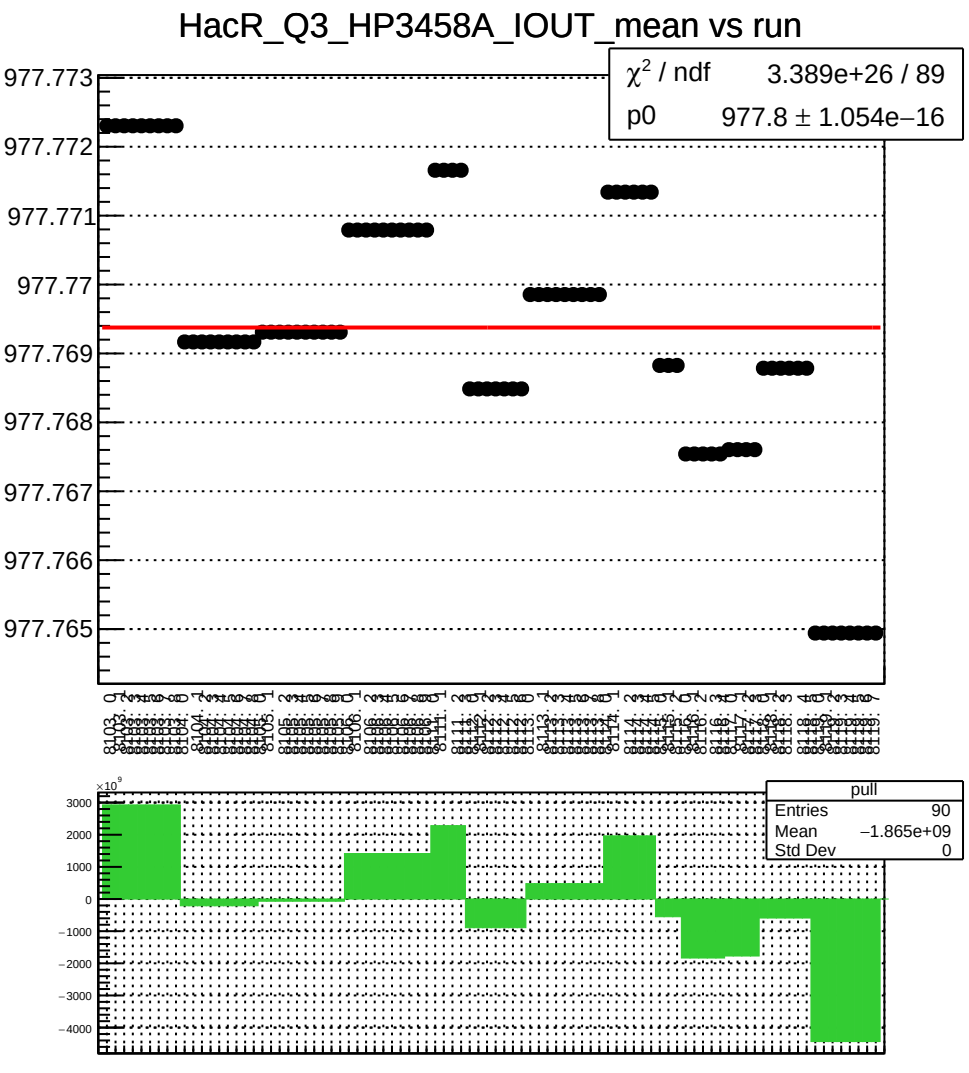

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

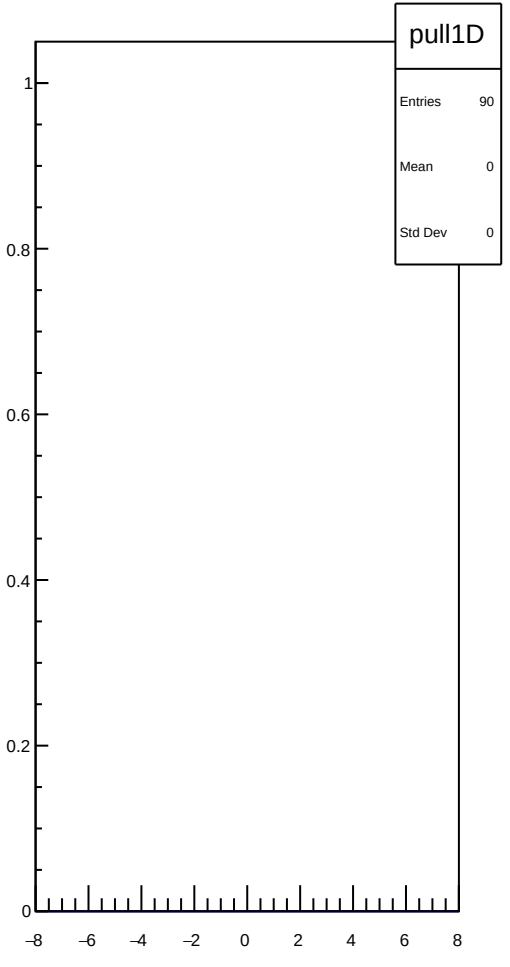

MQ172RM_mean vs run
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
×10⁻³
pull
Entries 90
Mean 45
Std Dev 25.98
pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09

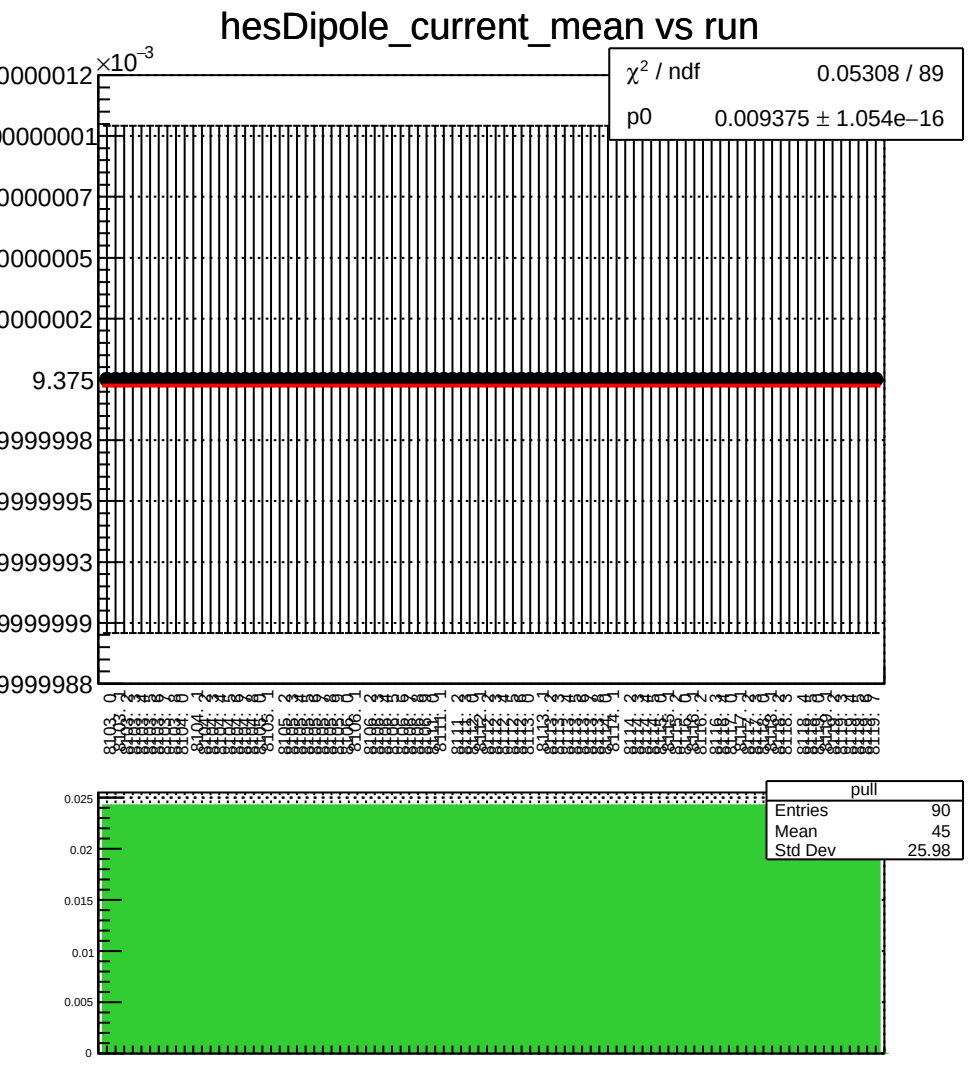

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.988e+27 / 89
p0 925 ± 1.054e−16
925.035
925.03
925.025
925.02
925.015
925.01
pull
Entries 90
Mean −8.194e+08
Std Dev 0
×10⁹
10000
5000
0
−5000
−10000

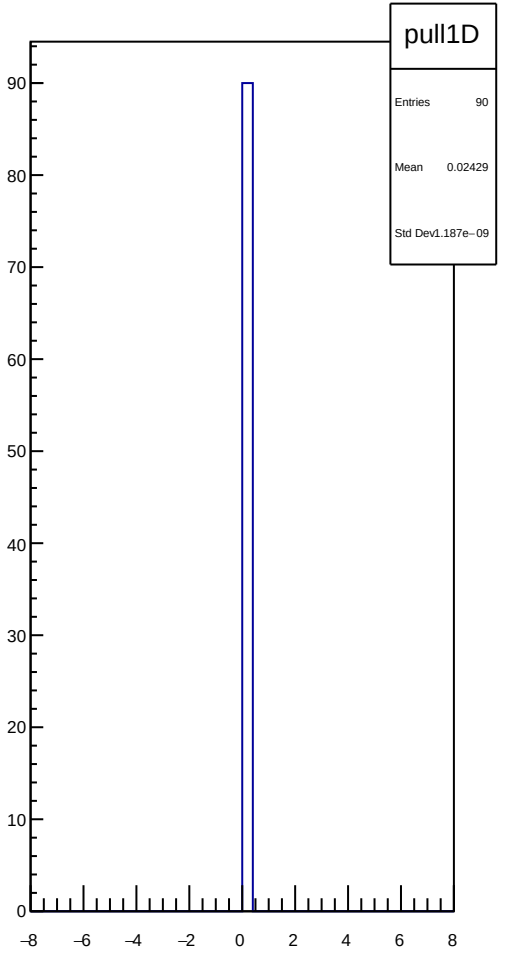

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

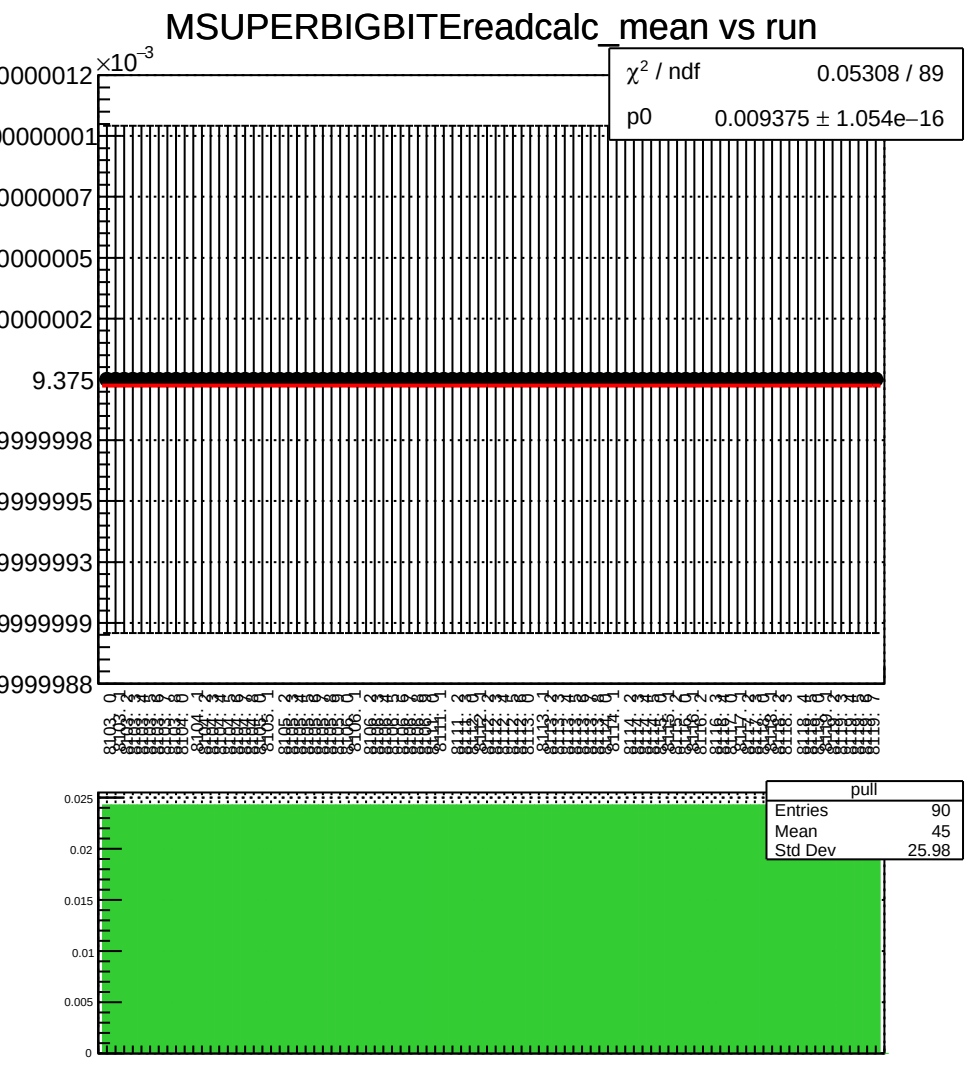

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.469e+25 / 89
p0 762.5 ± 1.054e−16
762.5005
762.5
762.4995
762.499
762.4985
762.498
pull
Entries 90
Mean −1.868e+09
Std Dev 0
×10⁹
500
0
−500
−1000
−1500
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

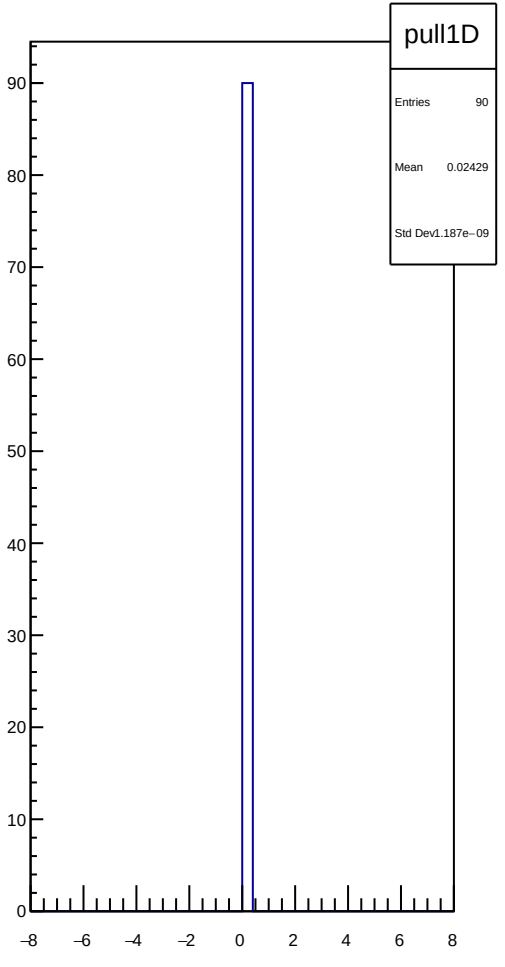

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.389e+26 / 89
p0 977.8 ± 1.054e−16
977.773
977.772
977.771
977.77
977.769
977.768
977.767
977.766
977.765
pull
Entries 90
Mean −1.865e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000

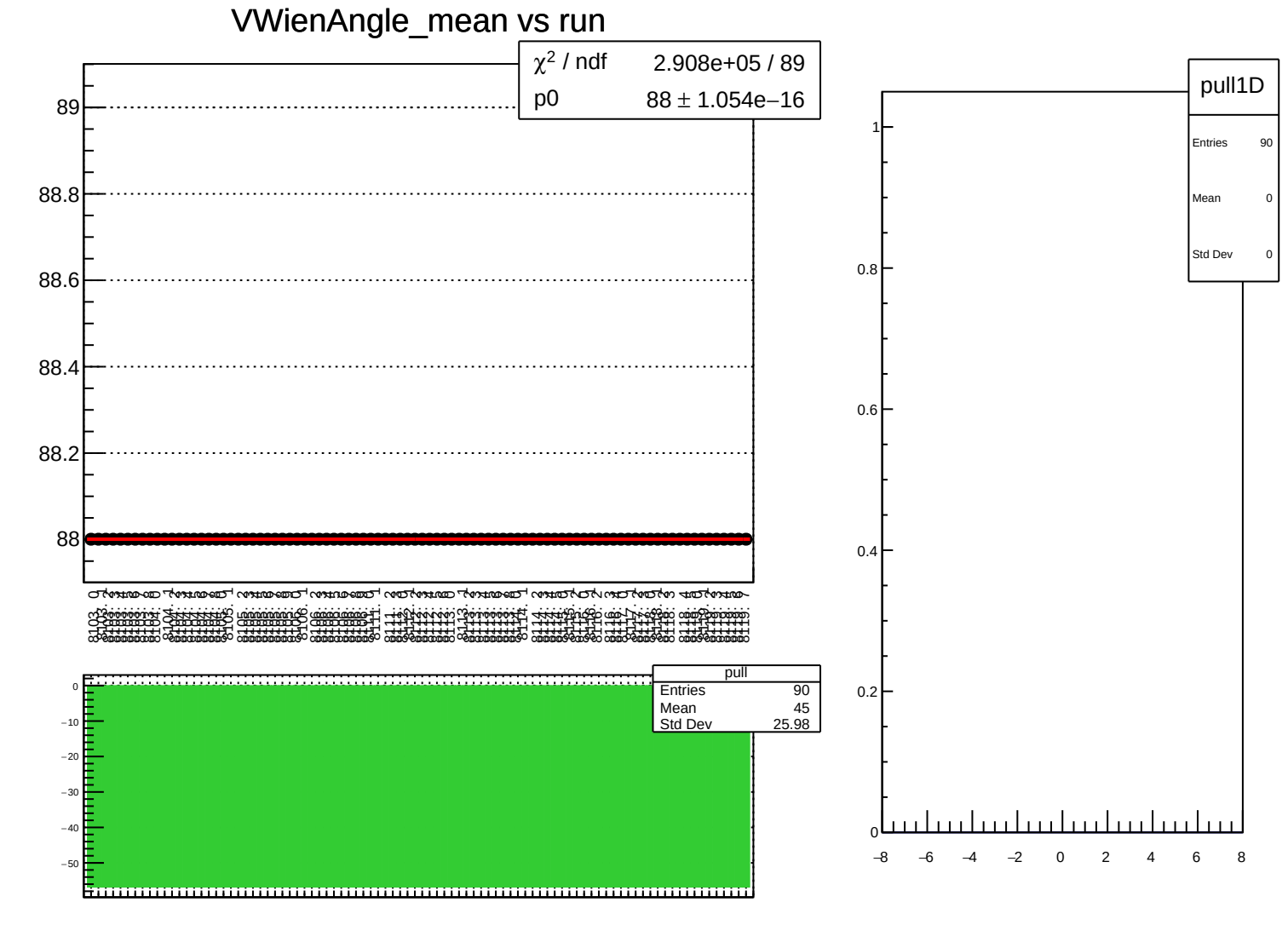

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

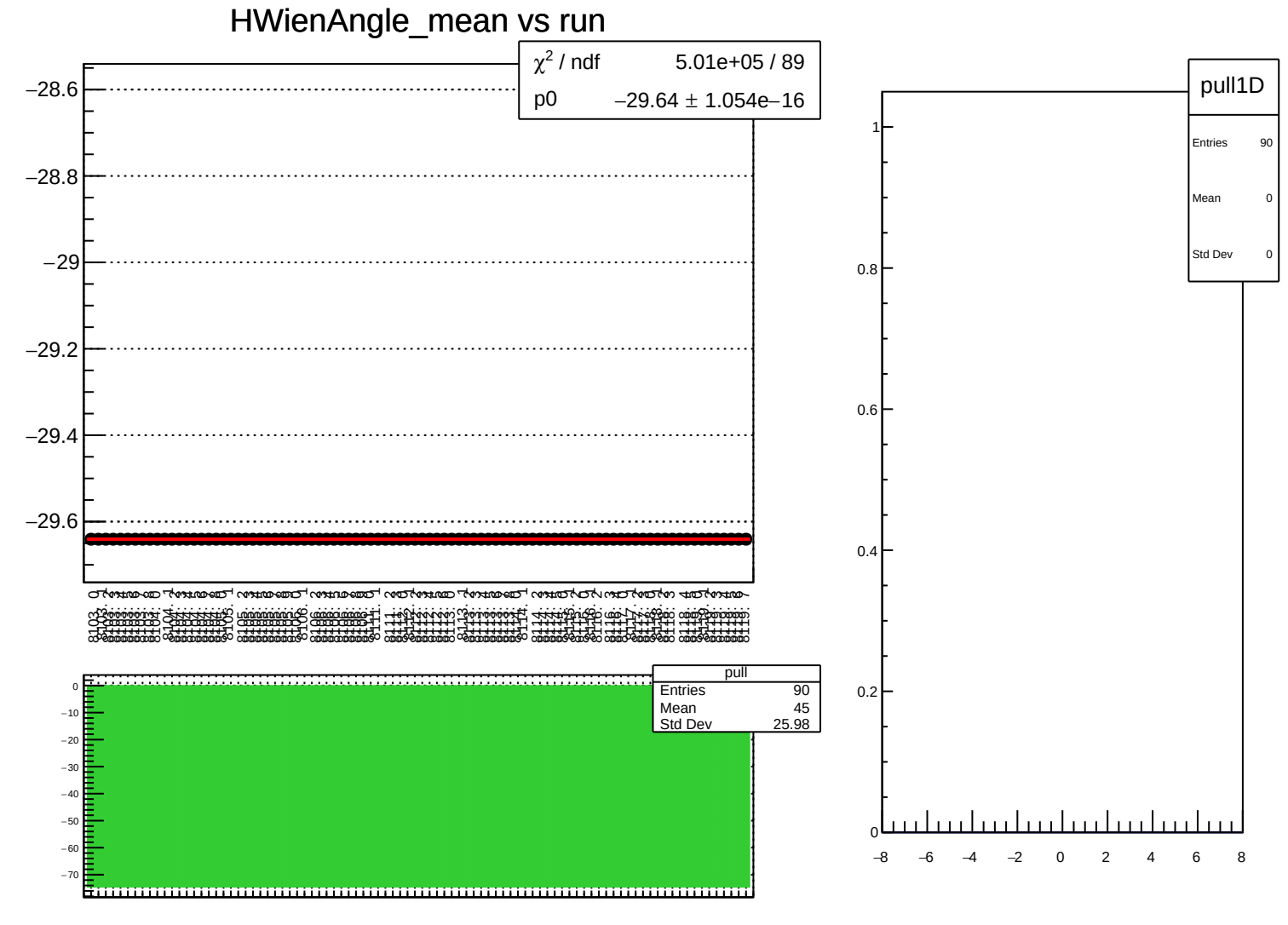

hesDipole_current_mean vs run
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
×10⁻³
pull
Entries 90
Mean 45
Std Dev 25.98

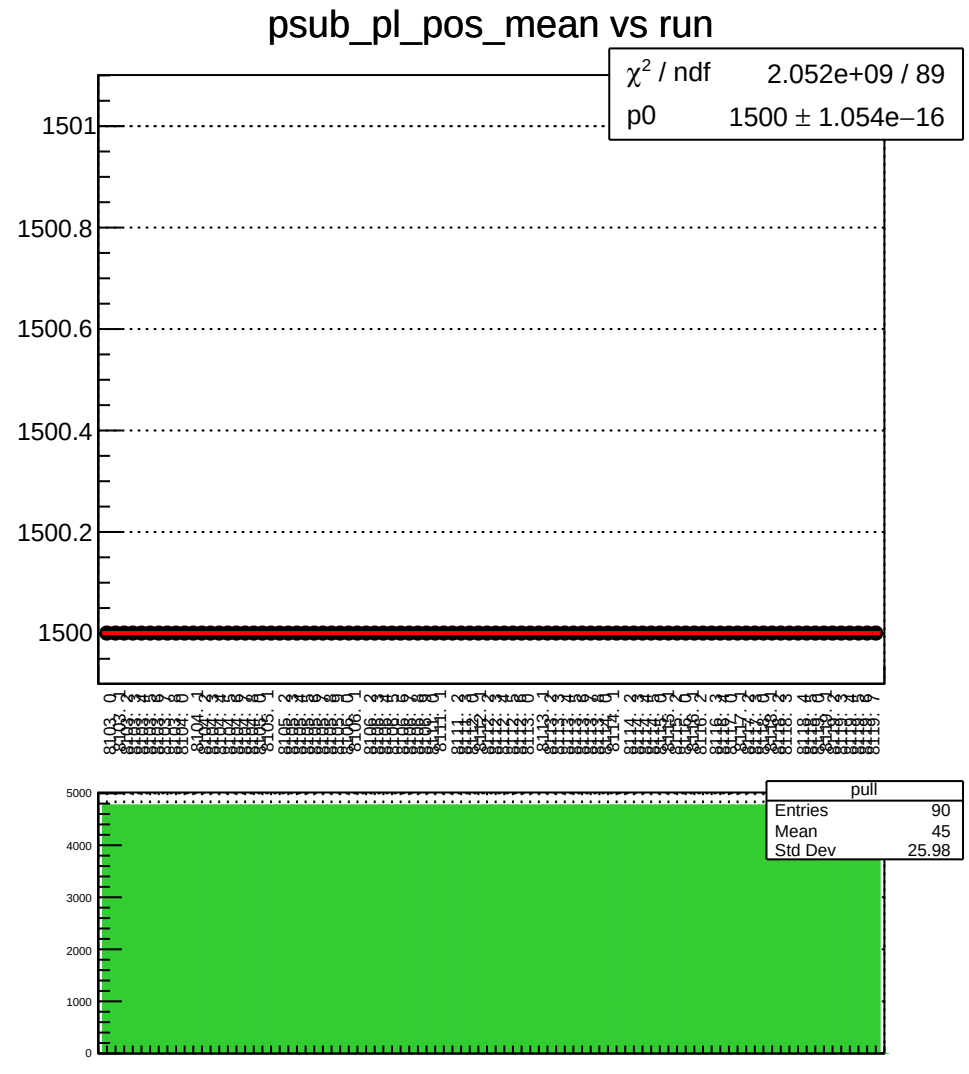

pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09

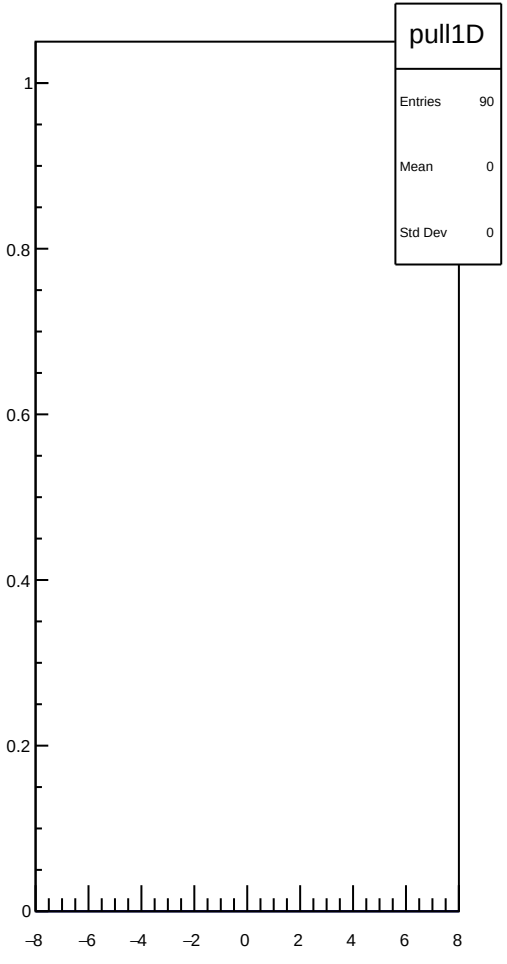

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
×10⁻³
pull
Entries 90
Mean 45
Std Dev 25.98

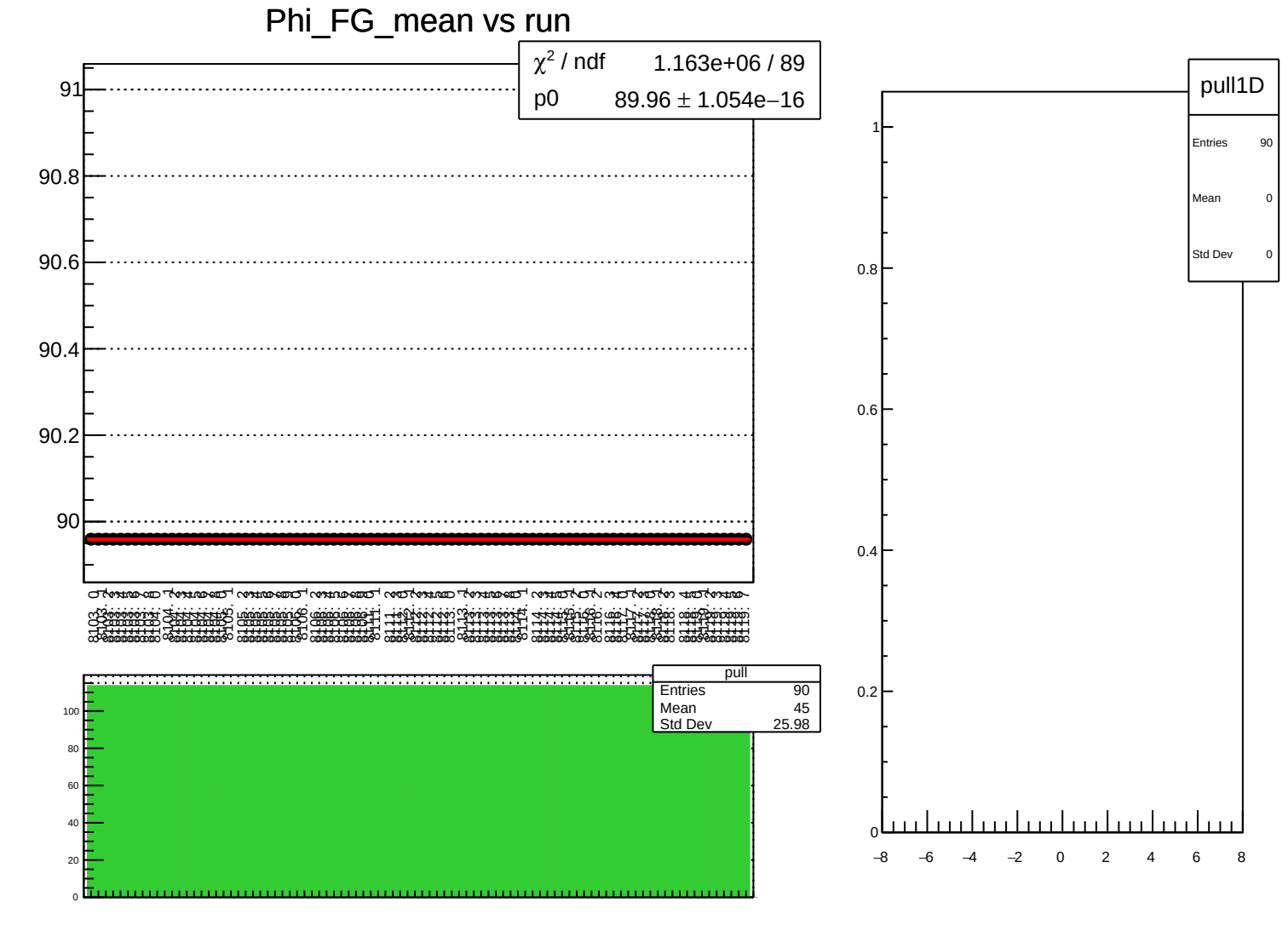

pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09

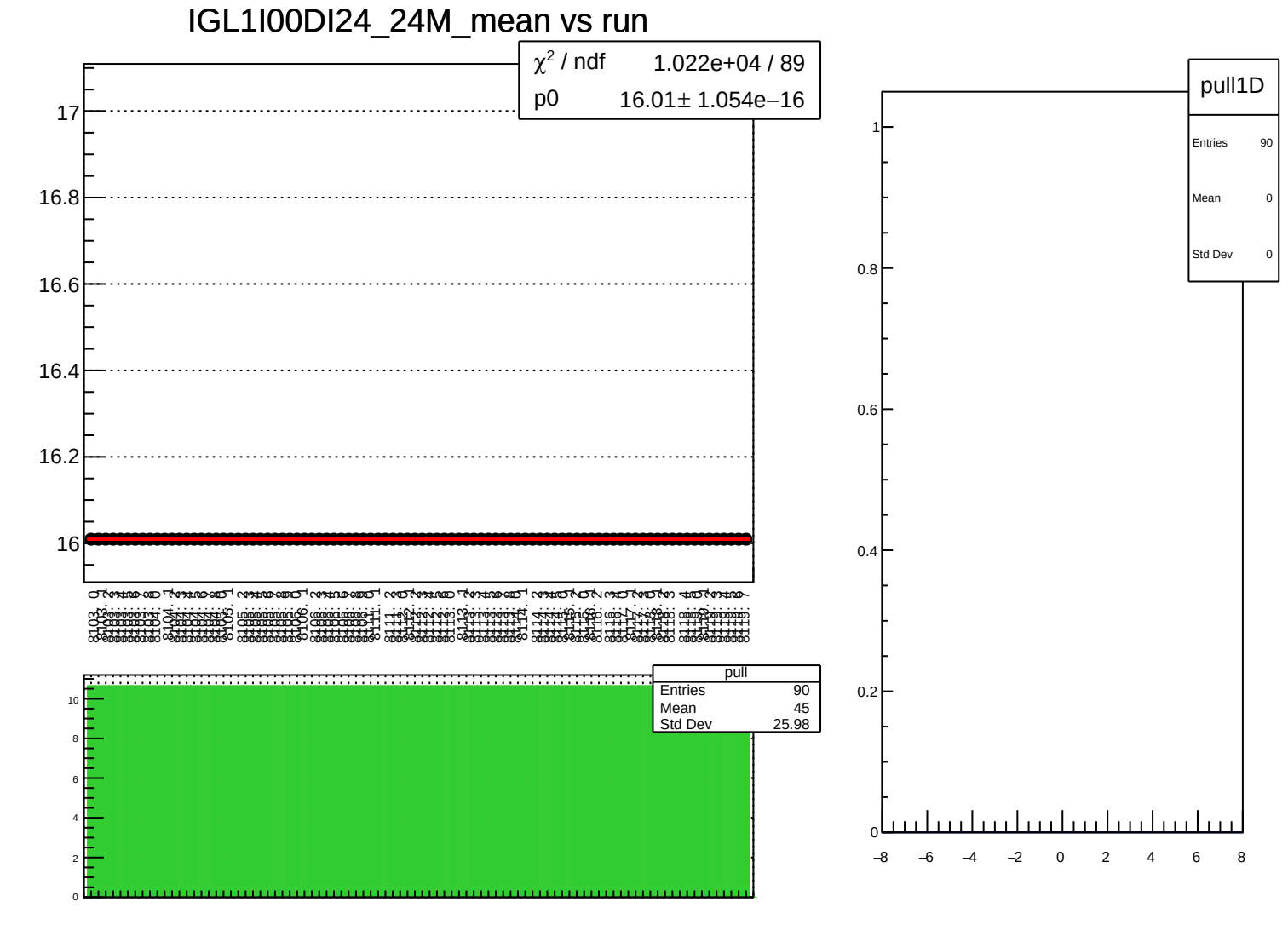

VWienAngle_mean vs run
χ² / ndf 2.908e+05 / 89
p0 88 ± 1.054e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 90
Mean 45
Std Dev 25.98
0
−10
−20
−30
−40
−50
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

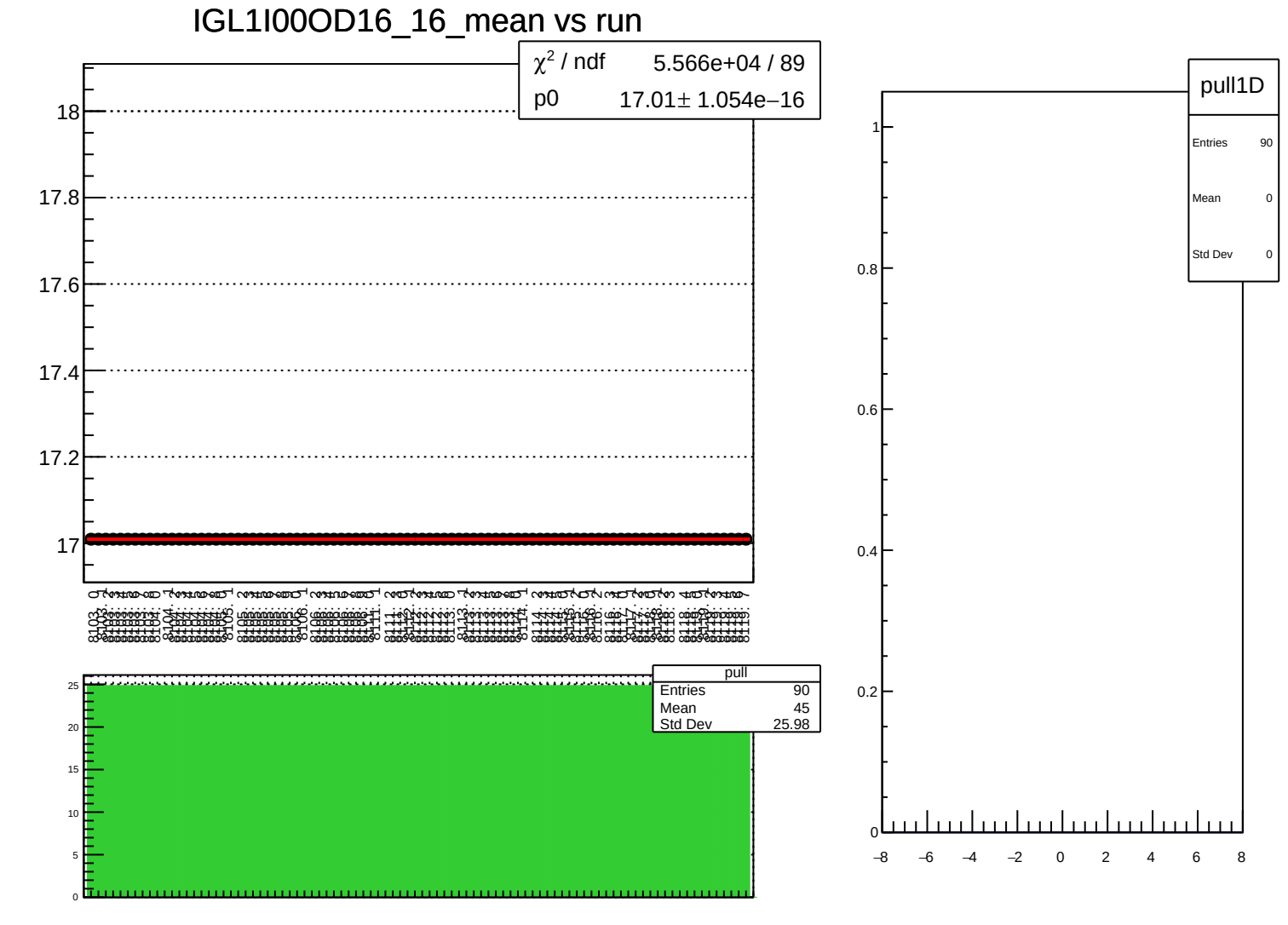

HWienAngle_mean vs run
χ² / ndf 5.01e+05 / 89
p0 −29.64 ± 1.054e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 90
Mean 45
Std Dev 25.98
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

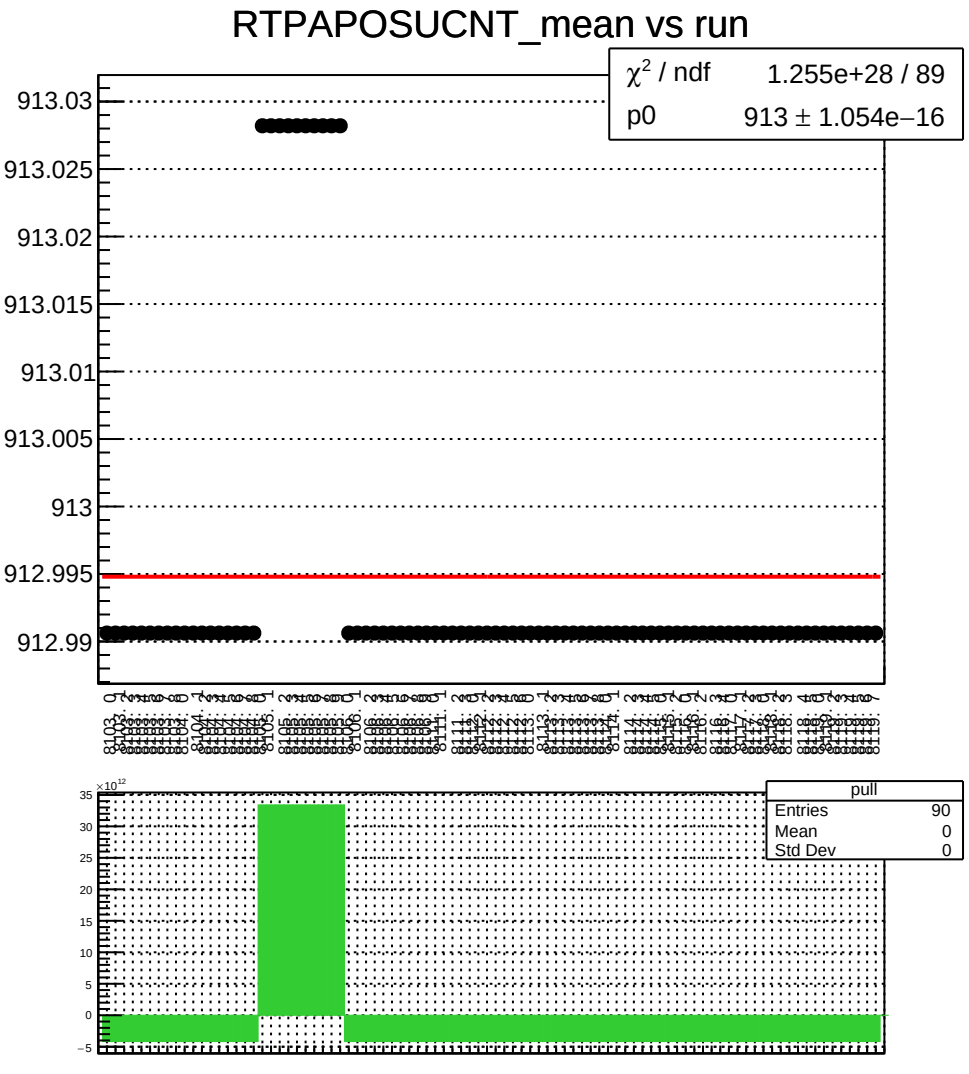

psub_pl_pos_mean vs run
χ² / ndf 2.052e+09 / 89
p0 1500 ± 1.054e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 90
Mean 45
Std Dev 25.98
5000
4000
3000
2000
1000
0

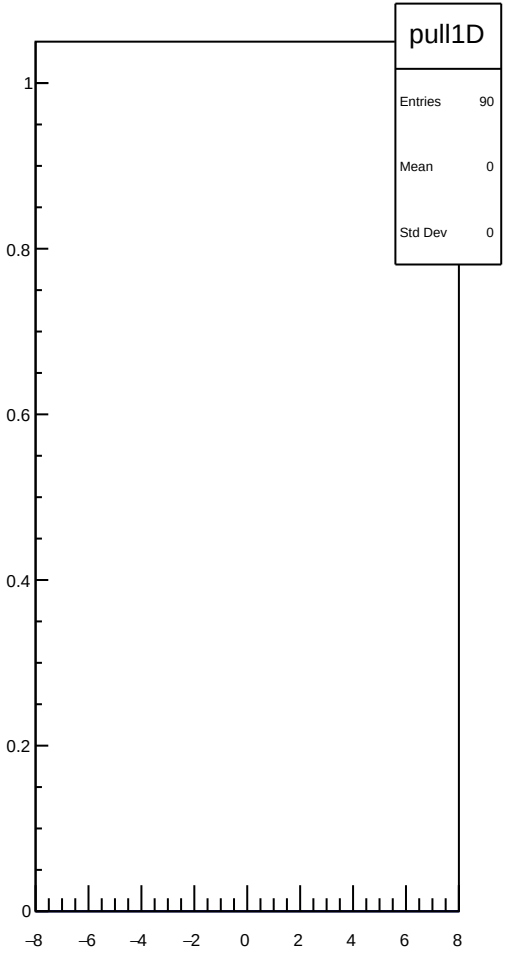

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

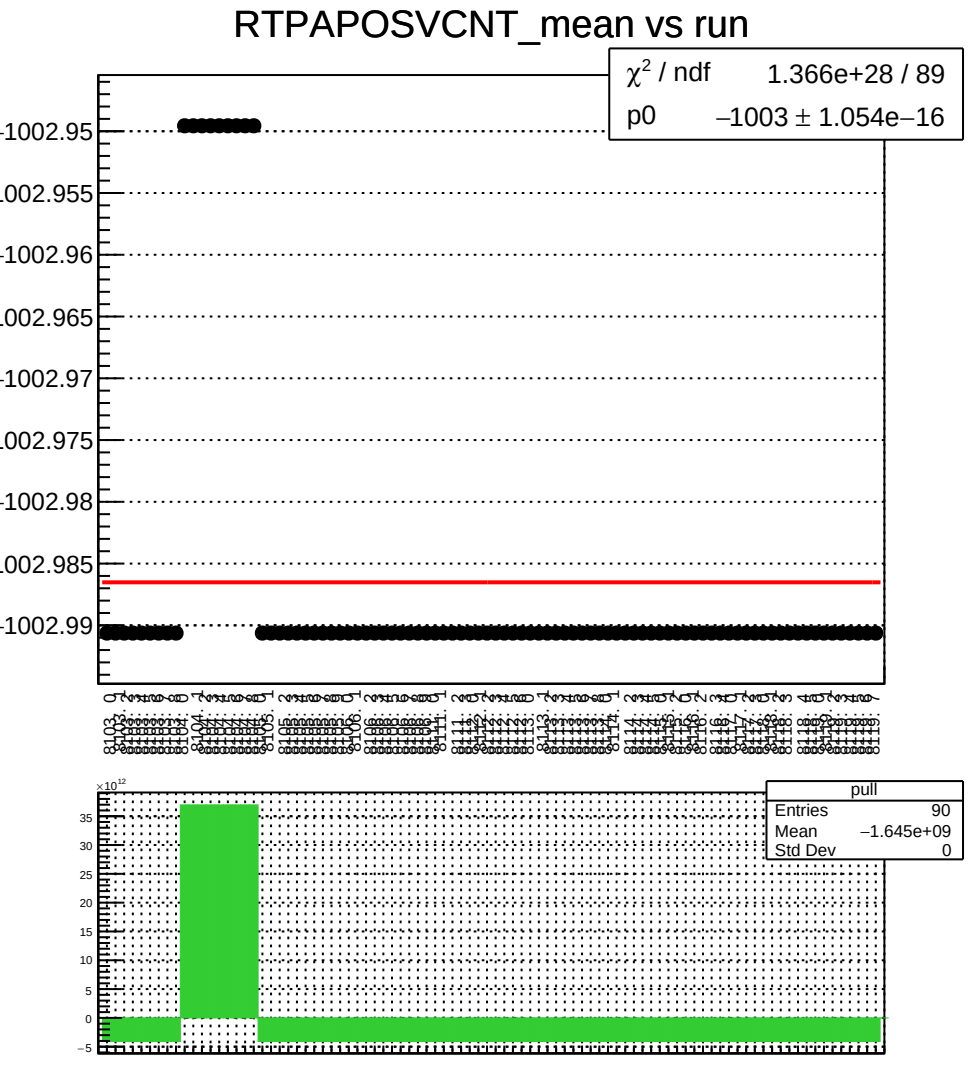

Phi_FG_mean vs run
χ² / ndf 1.163e+06 / 89
p0 89.96 ± 1.054e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 90
Mean 45
Std Dev 25.98
100
80
60
40
20
0
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

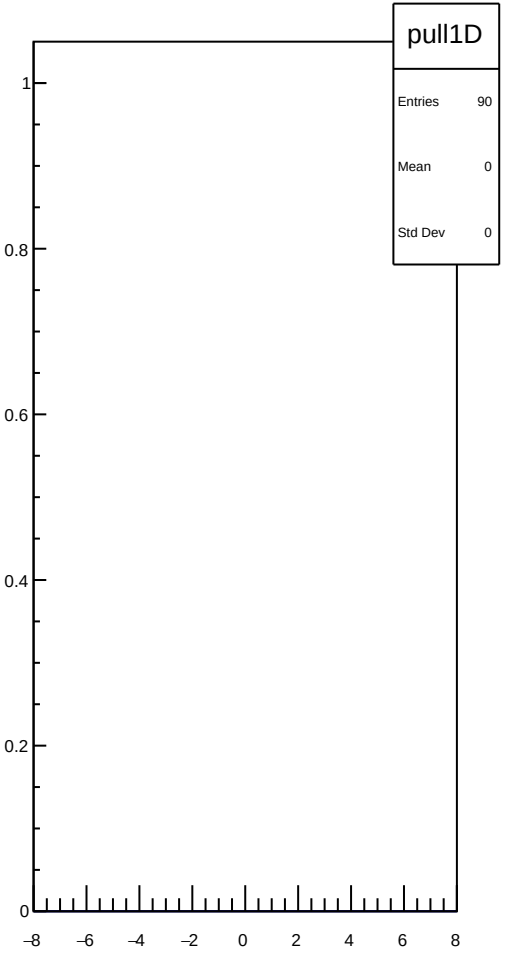

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.022e+04 / 89
p0 16.01± 1.054e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 90
Mean 45
Std Dev 25.98
10
8
6
4
2
0
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

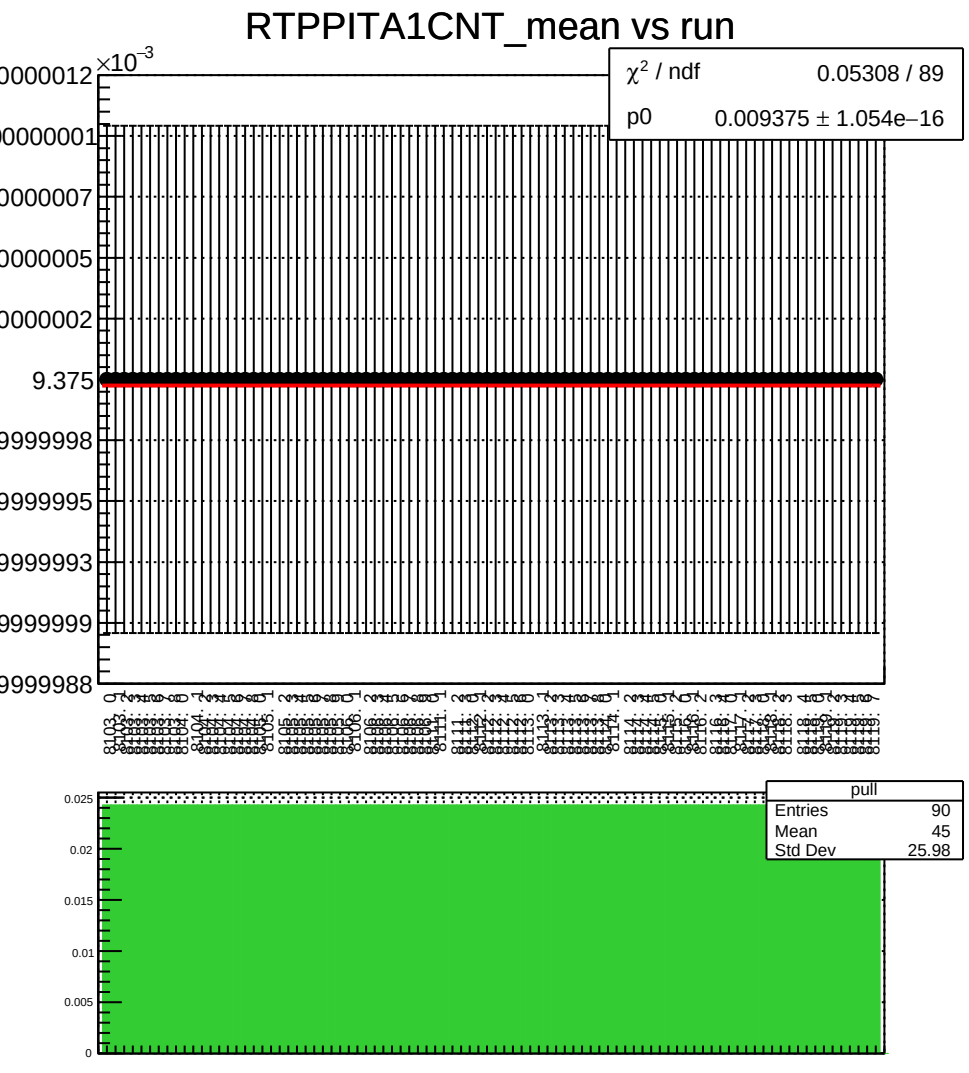

IGL1I00OD16_16_mean vs run
χ² / ndf 5.566e+04 / 89
p0 17.01± 1.054e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 90
Mean 45
Std Dev 25.98
25
20
15
10
5
0
pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

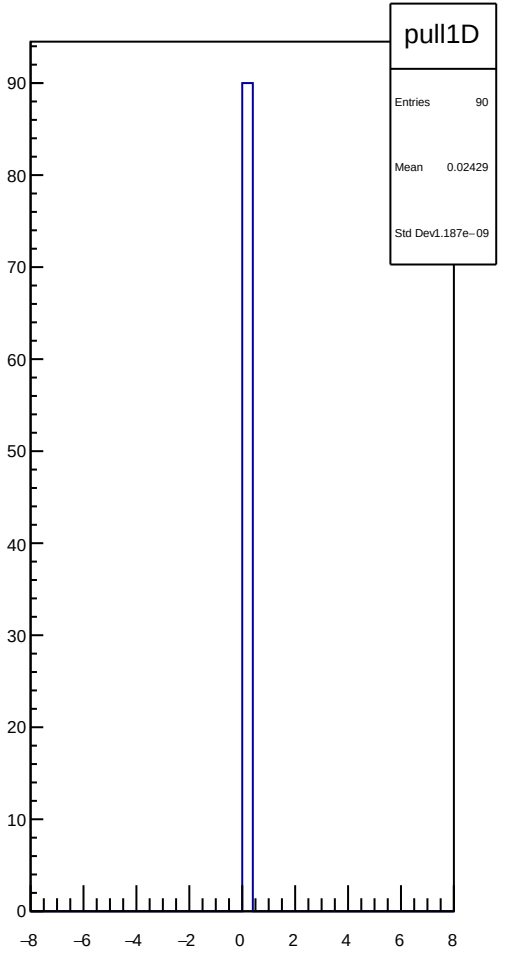

RTPAPOSUCNT_mean vs run
χ² / ndf 1.255e+28 / 89
p0 913 ± 1.054e−16
913.03
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 90
Mean 0
Std Dev 0
×10¹²
35
30
25
20
15
10
5
0
−5

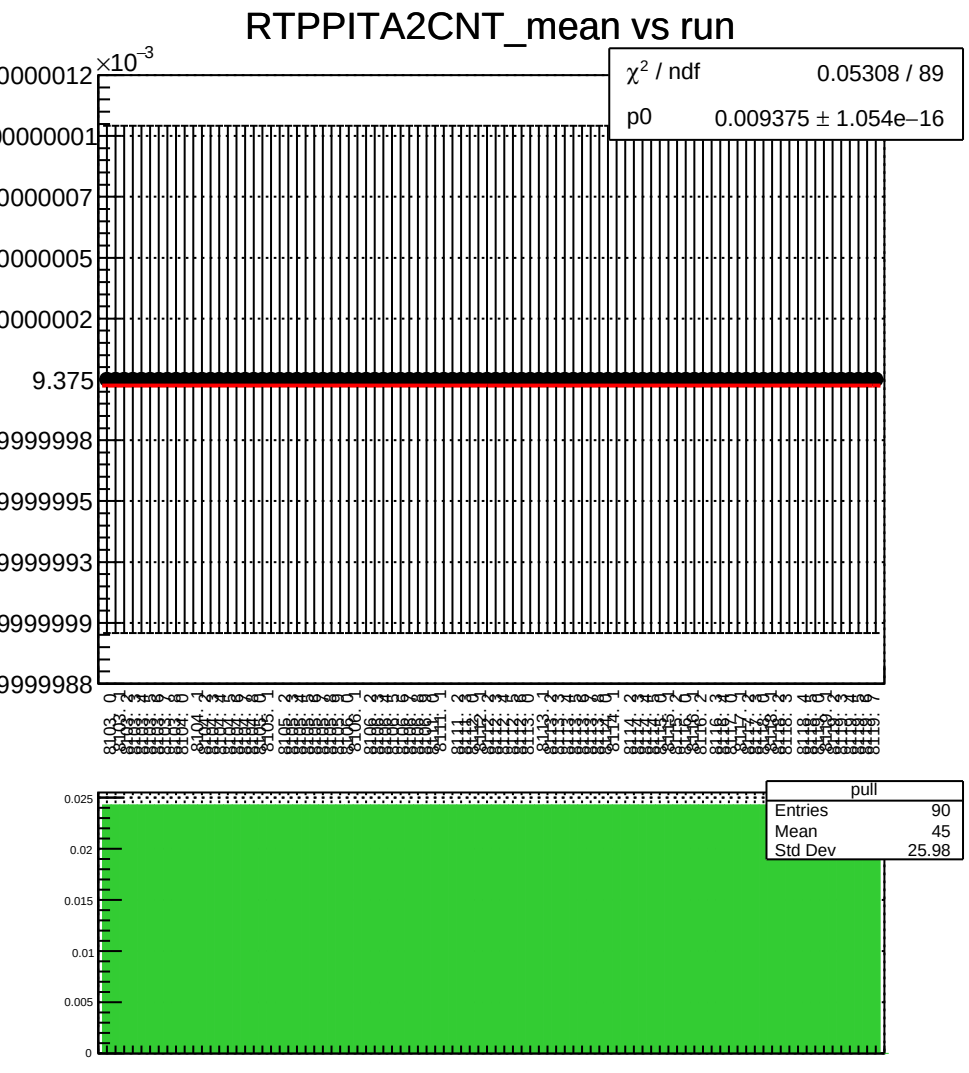

pull1D
Entries 90
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

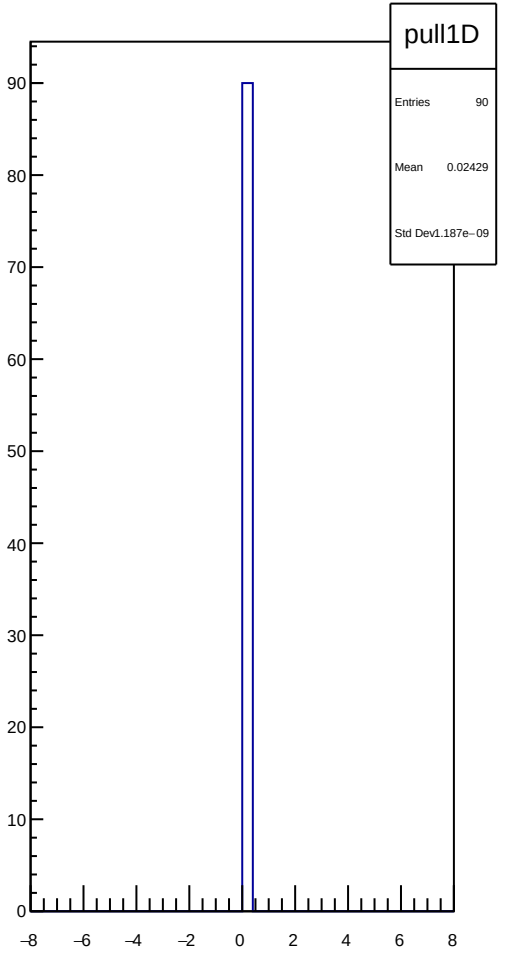

RTPAPOSVCNT_mean vs run
χ² / ndf 1.366e+28 / 89
p0 −1003 ± 1.054e−16
−1002.95
−1002.955
−1002.96
−1002.965
−1002.97
−1002.975
−1002.98
−1002.985
−1002.99
pull
Entries 90
Mean −1.645e+09
Std Dev 0
×10¹²
35
30
25
20
15
10
5
0
−5


pull1D
Entries 90
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 0.05308 / 89
p0 0.009375 ± 1.054e−16
×10⁻³
9.375
pull
Entries 90
Mean 45
Std Dev 25.98


pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09


RTPPITA2CNT_mean vs run
χ² / ndf 0.05308 / 89
p0 0.009375 ± 1.054e−16
×10⁻³
pull
Entries 90
Mean 45
Std Dev 25.98


pull1D
Entries 90
Mean 0.02429
Std Dev1.187e−09