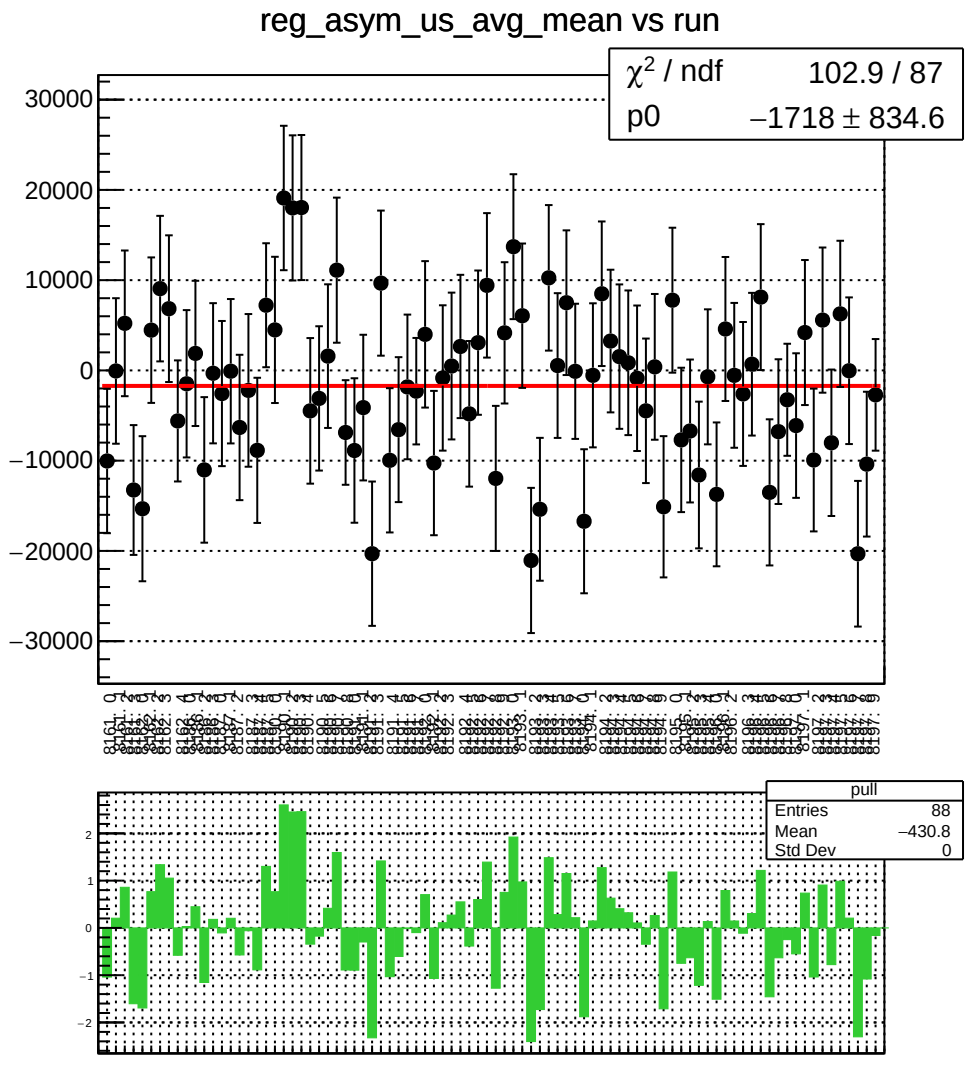
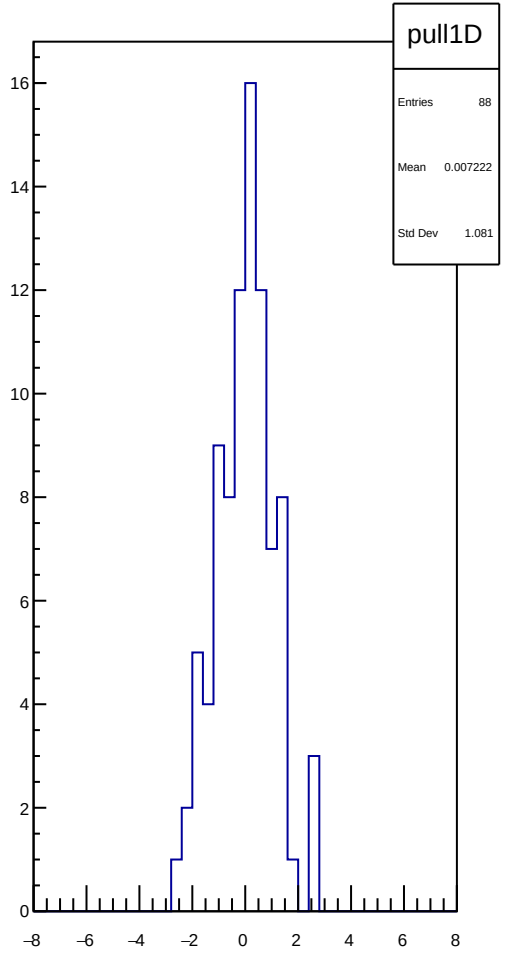
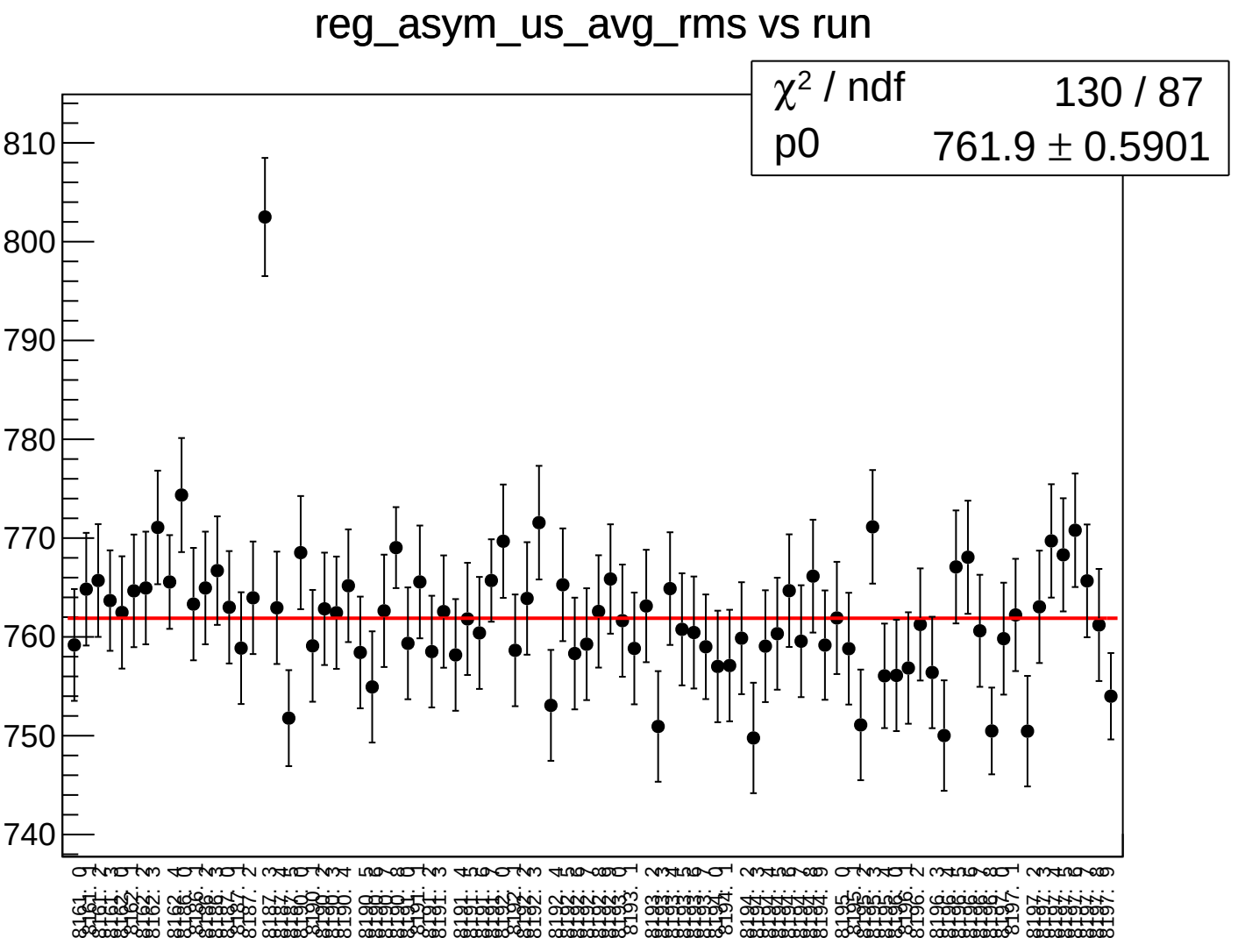
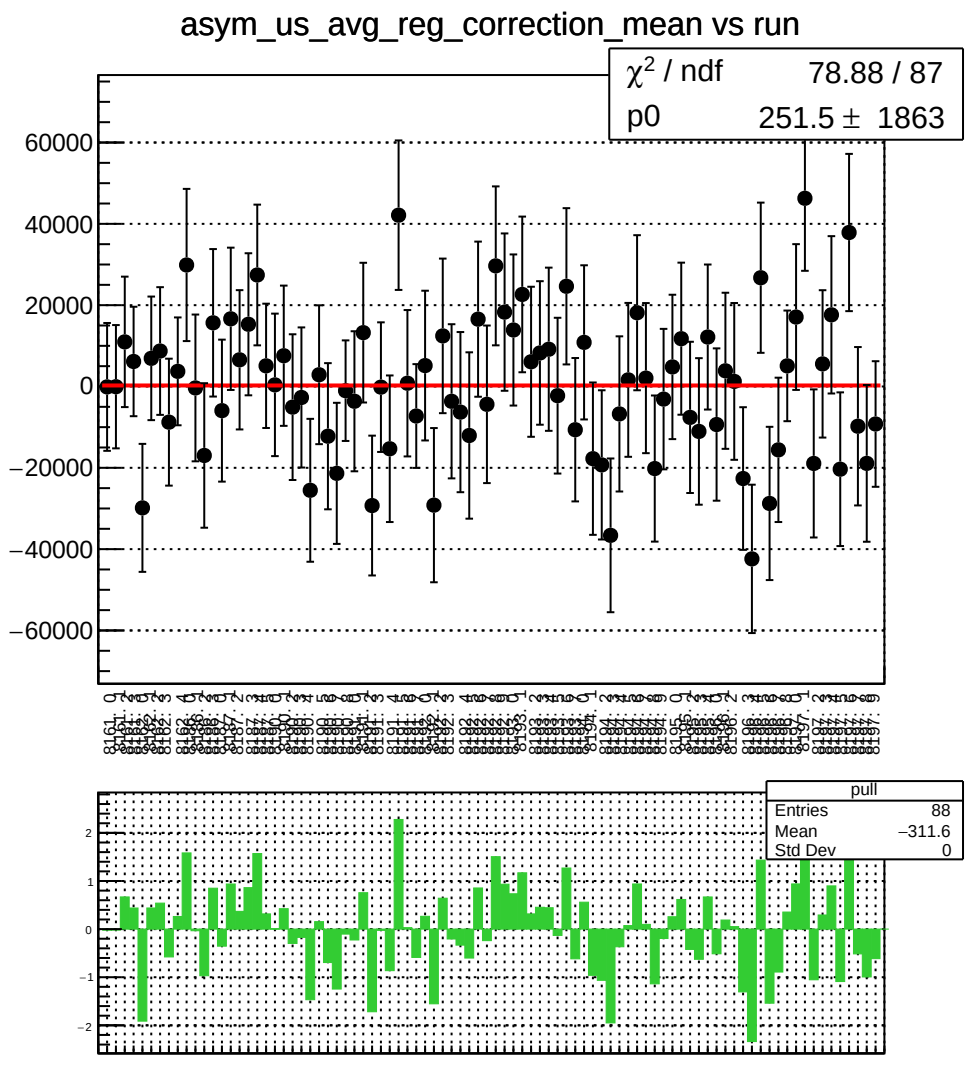
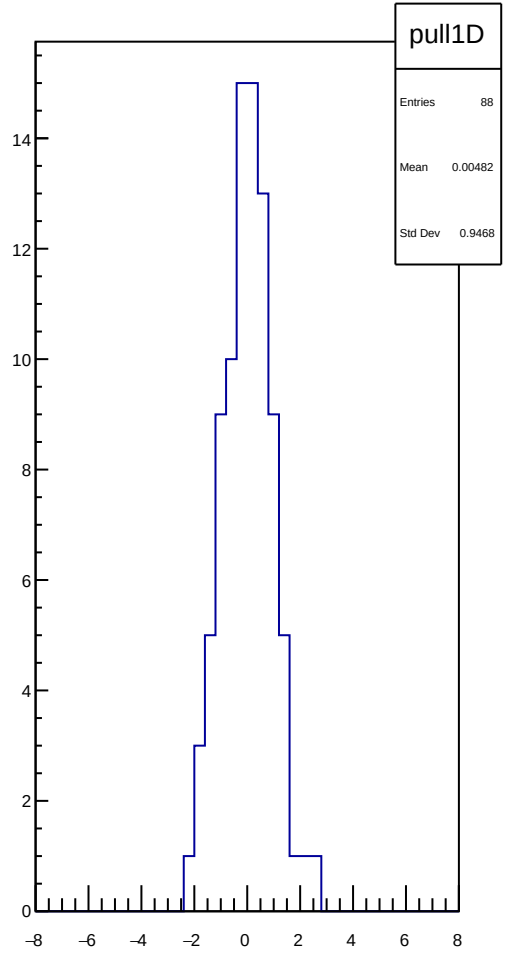
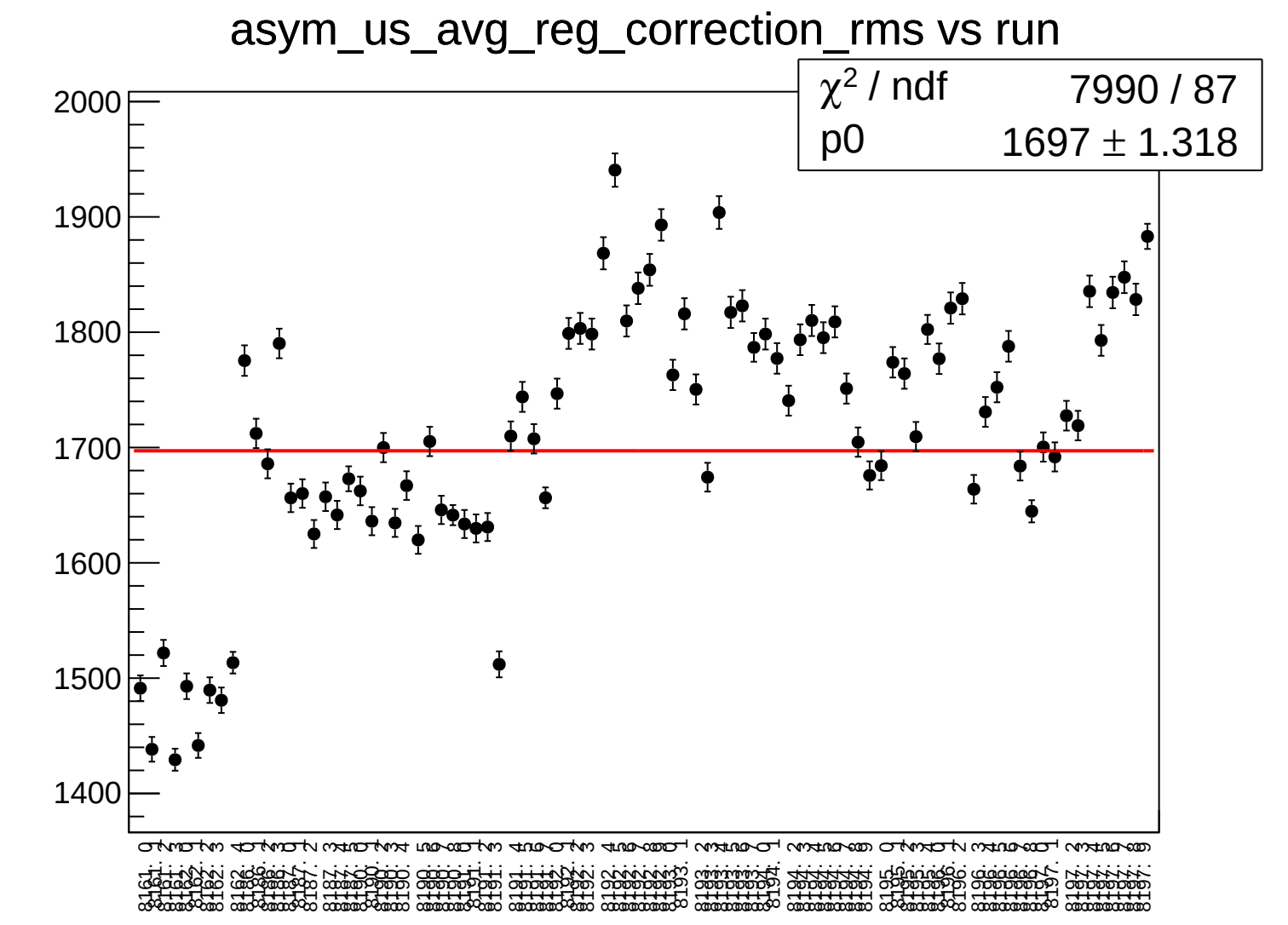

reg_asym_us_avg_mean vs run
χ² / ndf 102.9 / 87
p0 −1718 ± 834.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −430.8
Std Dev 0
2
1
0
−1
−2

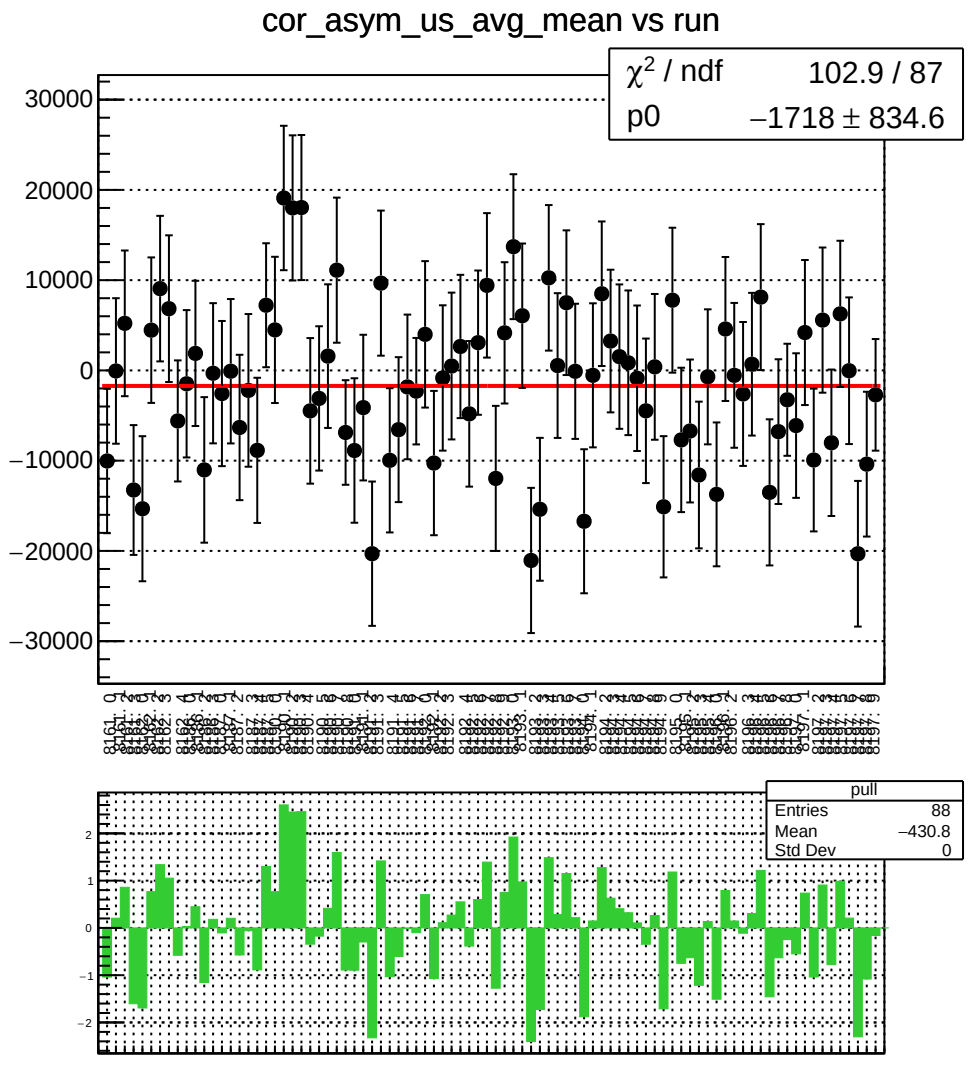

pull1D
Entries 88
Mean 0.007222
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

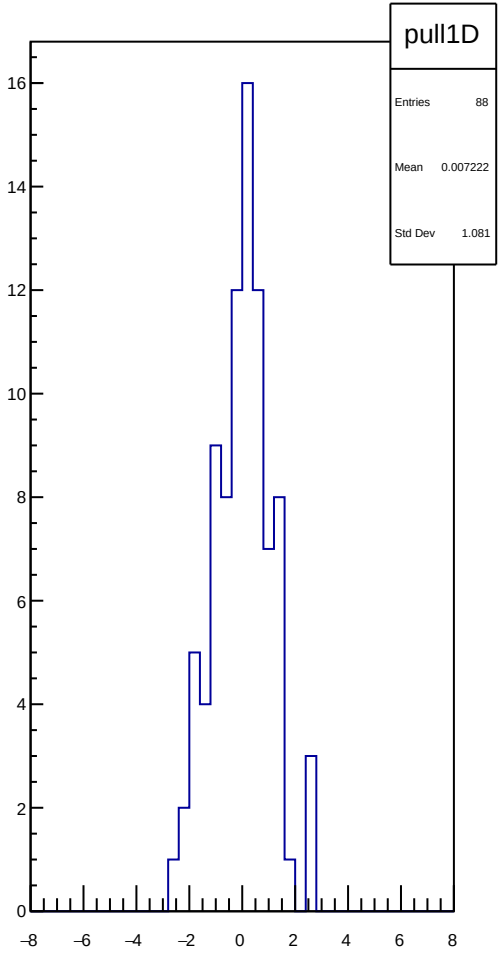

reg_asym_us_avg_rms vs run
χ² / ndf 130 / 87
p0 761.9 ± 0.5901
810
800
790
780
770
760
750
740

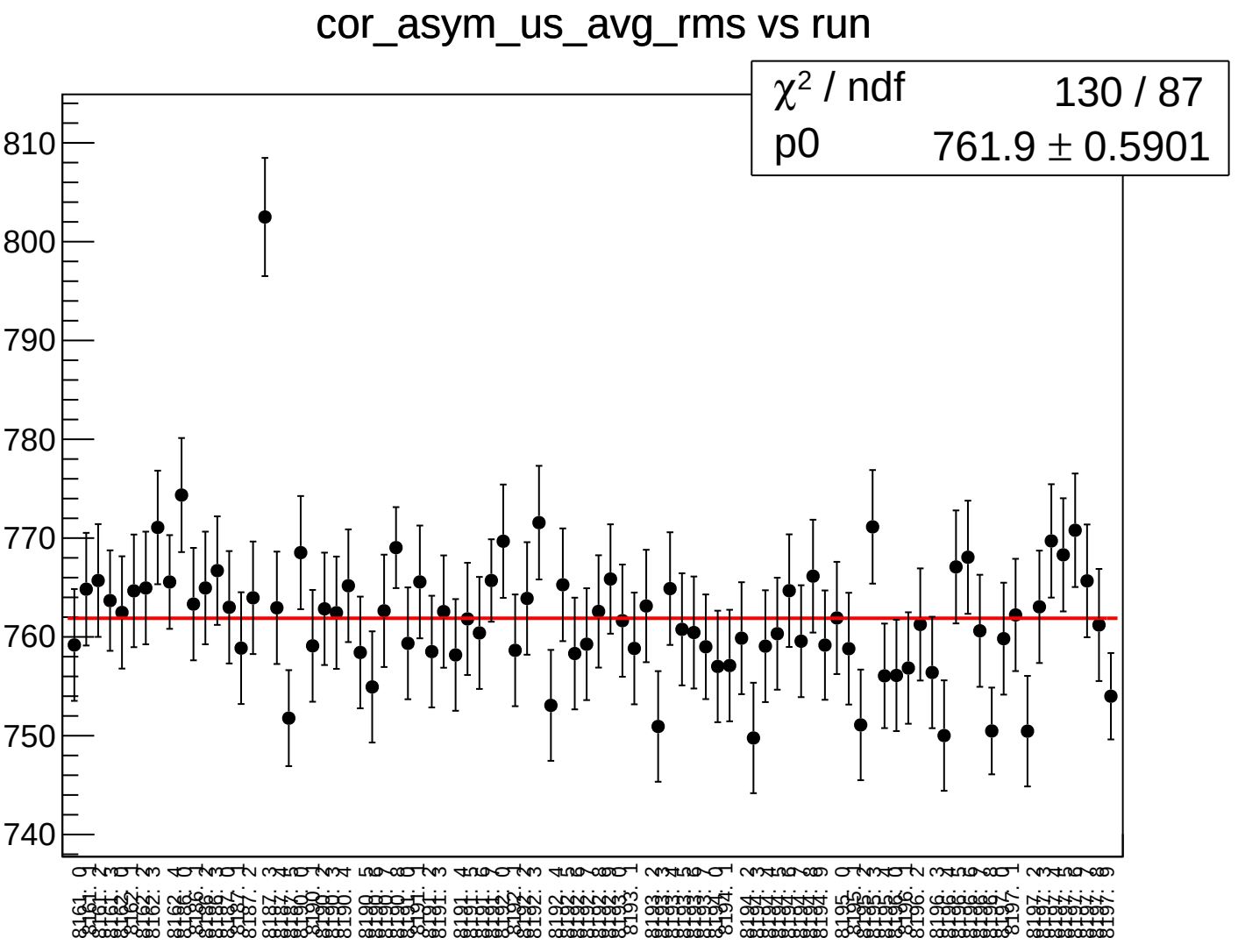

asym_us_avg_reg_correction_mean vs run
χ² / ndf 78.88 / 87
p0 251.5 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −311.6
Std Dev 0
2
1
0
−1
−2

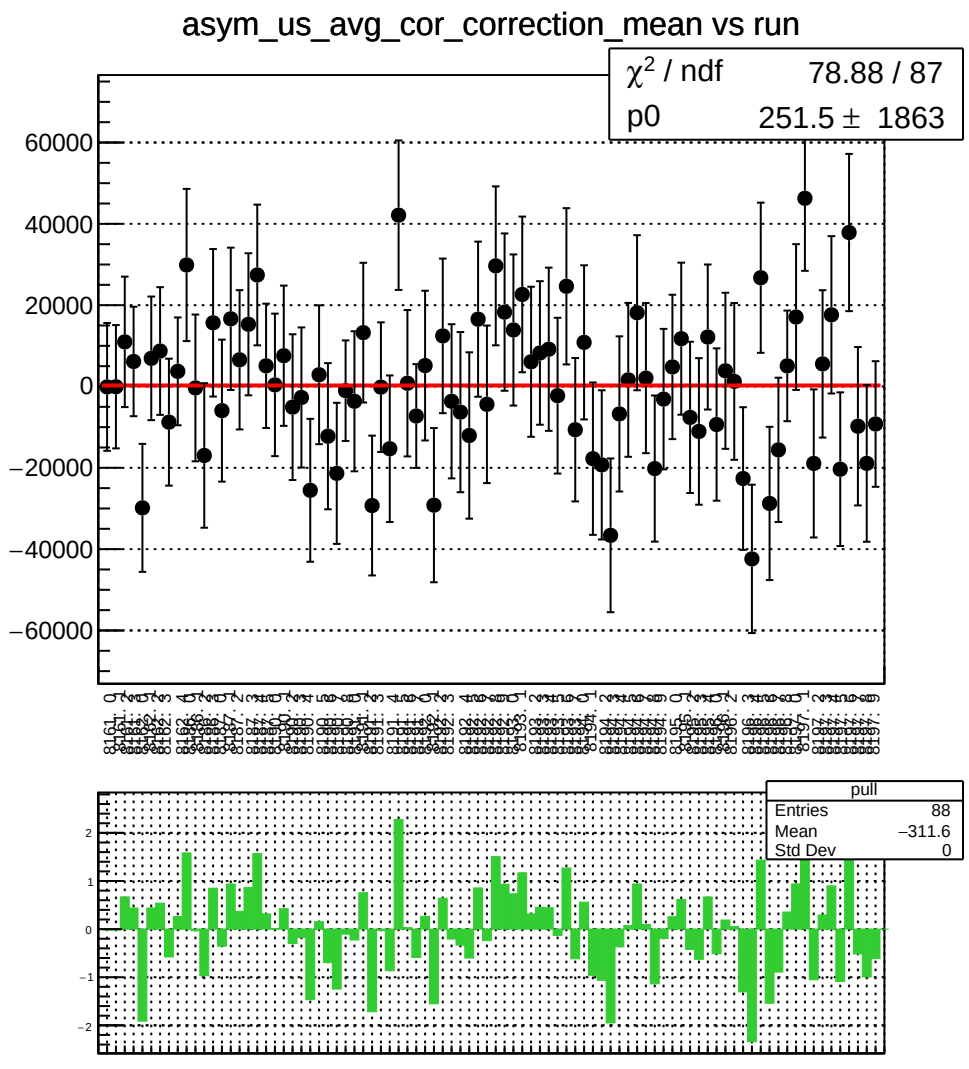

pull1D
Entries 88
Mean 0.00482
Std Dev 0.9468
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

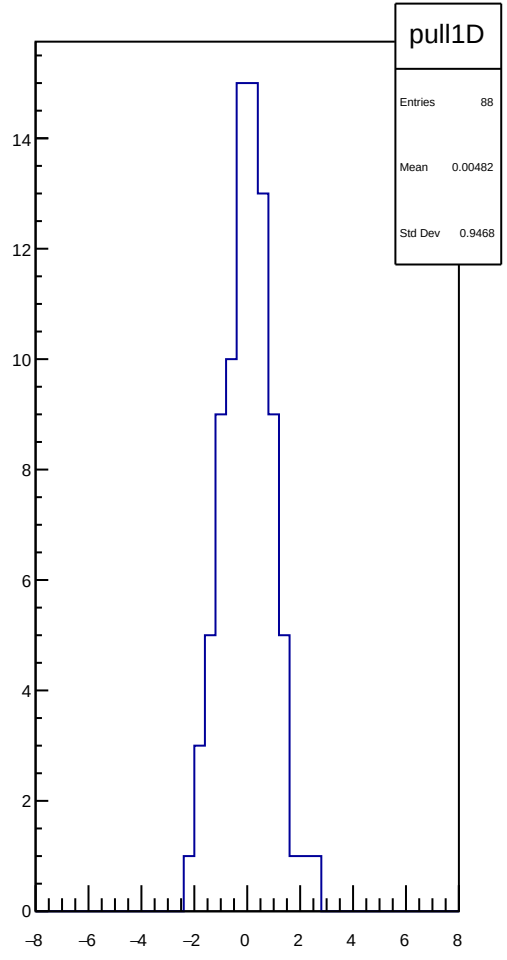

asym_us_avg_reg_correction_rms vs run
χ² / ndf 7990 / 87
p0 1697 ± 1.318
2000
1900
1800
1700
1600
1500
1400

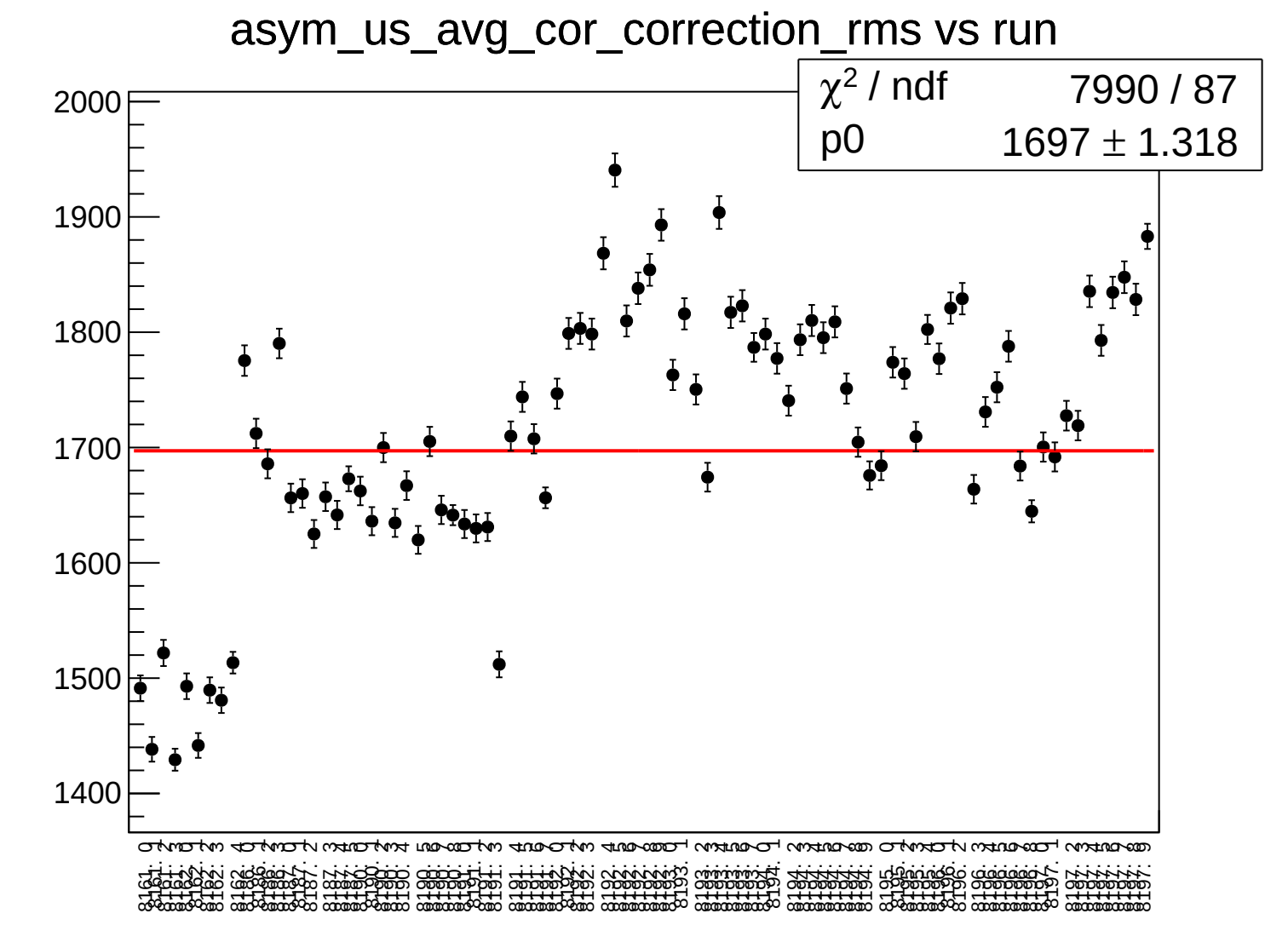

cor_asym_us_avg_mean vs run
χ² / ndf 102.9 / 87
p0 −1718 ± 834.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −430.8
Std Dev 0
2
1
0
−1
−2

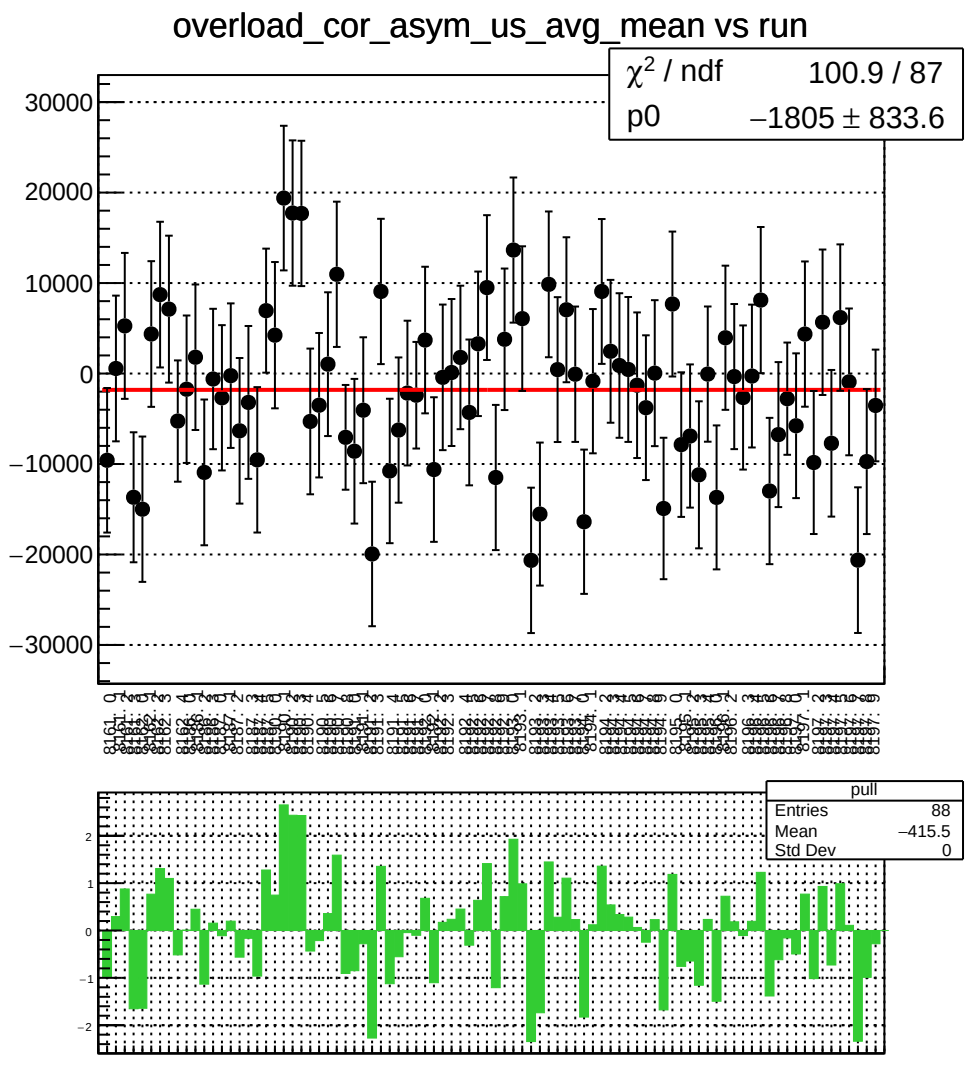

pull1D
Entries 88
Mean 0.007222
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

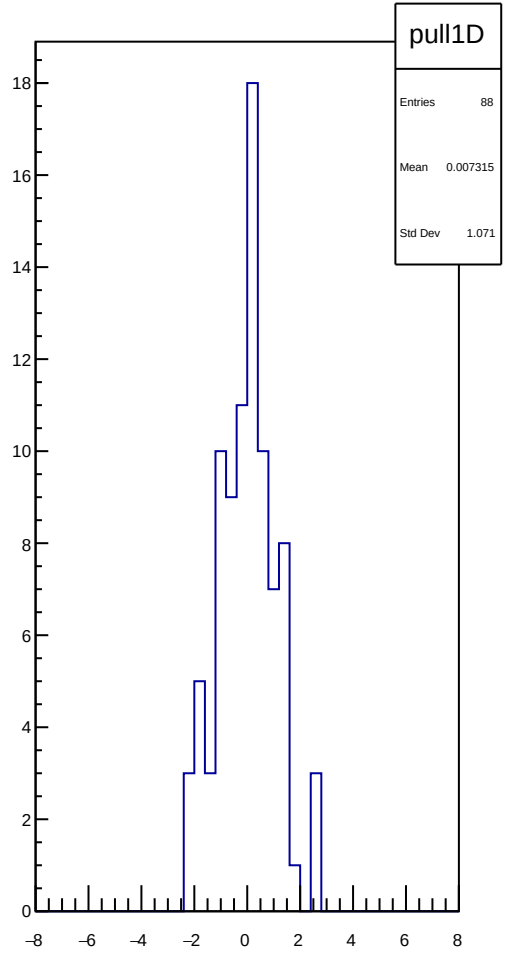

cor_asym_us_avg_rms vs run
χ² / ndf 130 / 87
p0 761.9 ± 0.5901
810
800
790
780
770
760
750
740


asym_us_avg_cor_correction_mean vs run
χ² / ndf 78.88 / 87
p0 251.5 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −311.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.00482
Std Dev 0.9468
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 7990 / 87
p0 1697 ± 1.318
2000
1900
1800
1700
1600
1500
1400


overload_cor_asym_us_avg_mean vs run
χ² / ndf 100.9 / 87
p0 −1805 ± 833.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −415.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.007315
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
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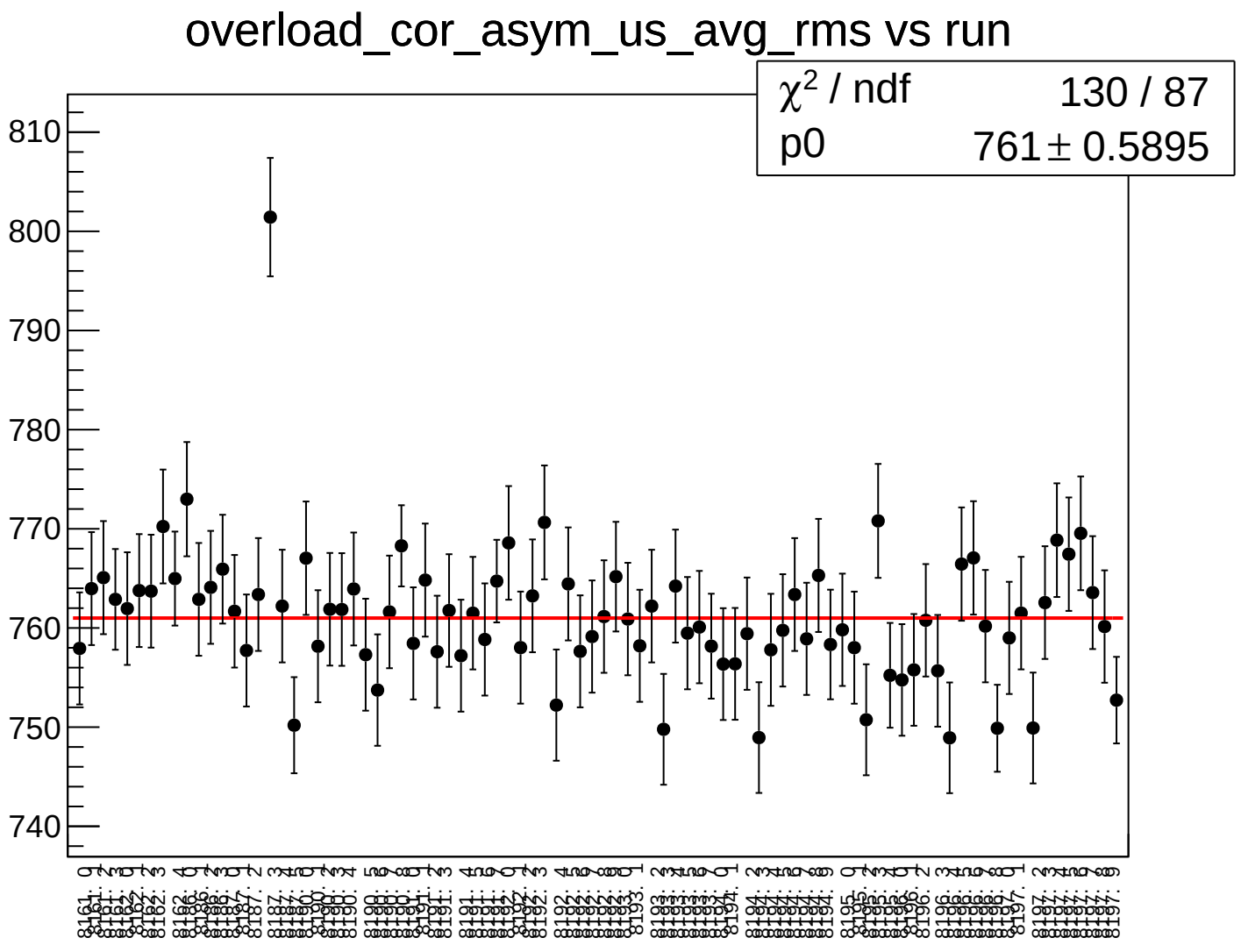
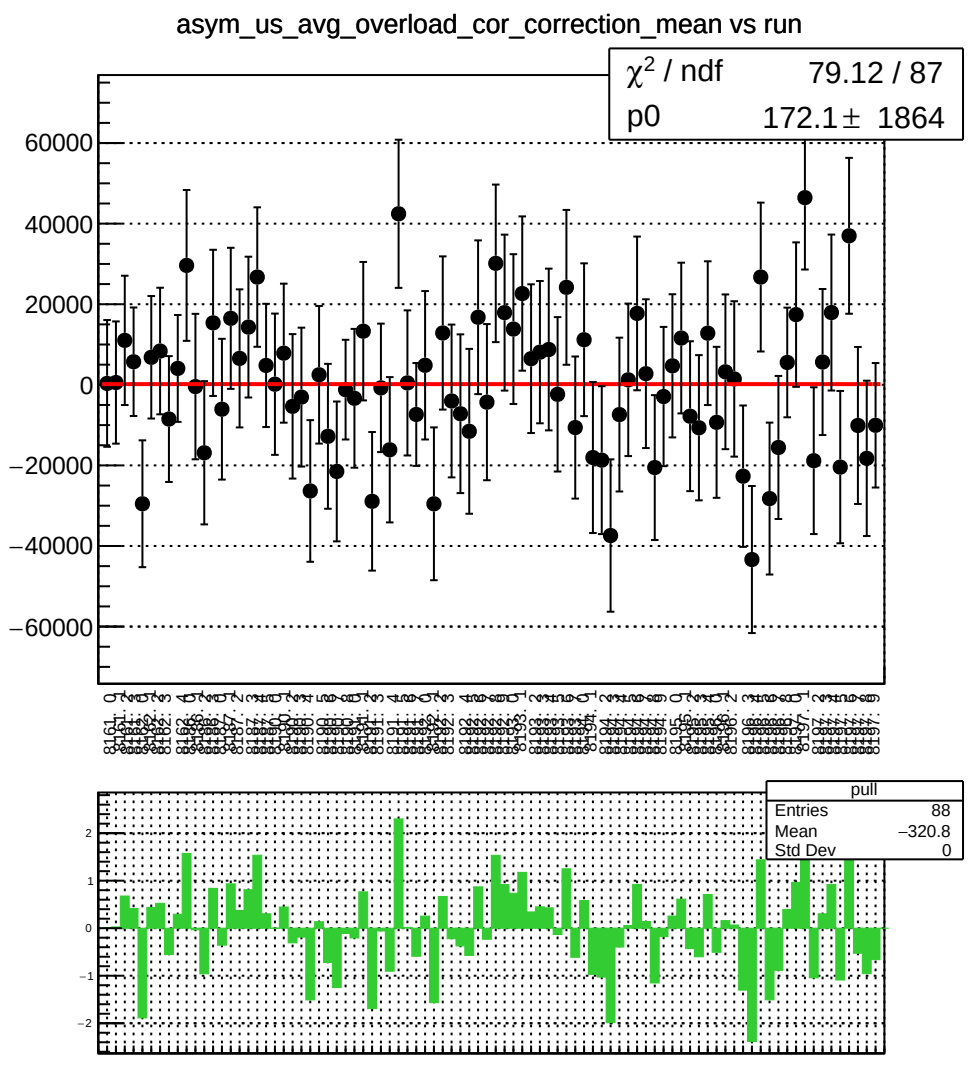
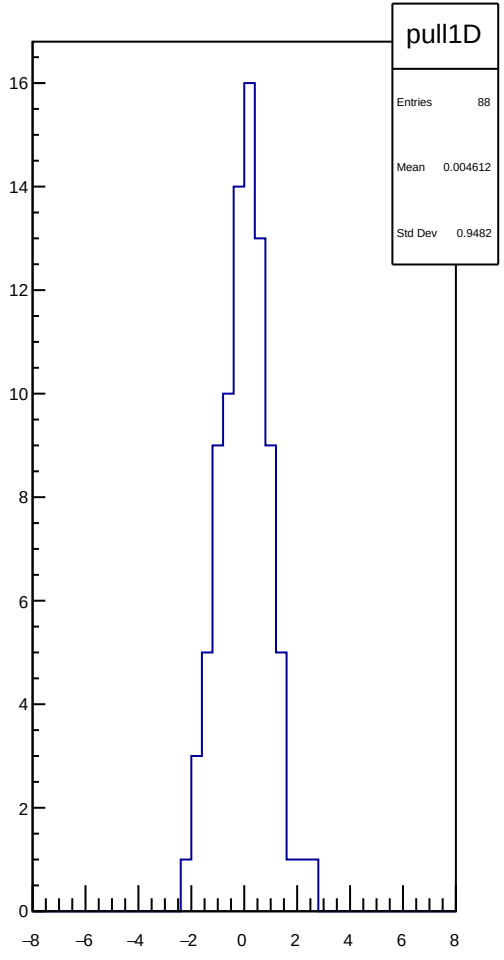
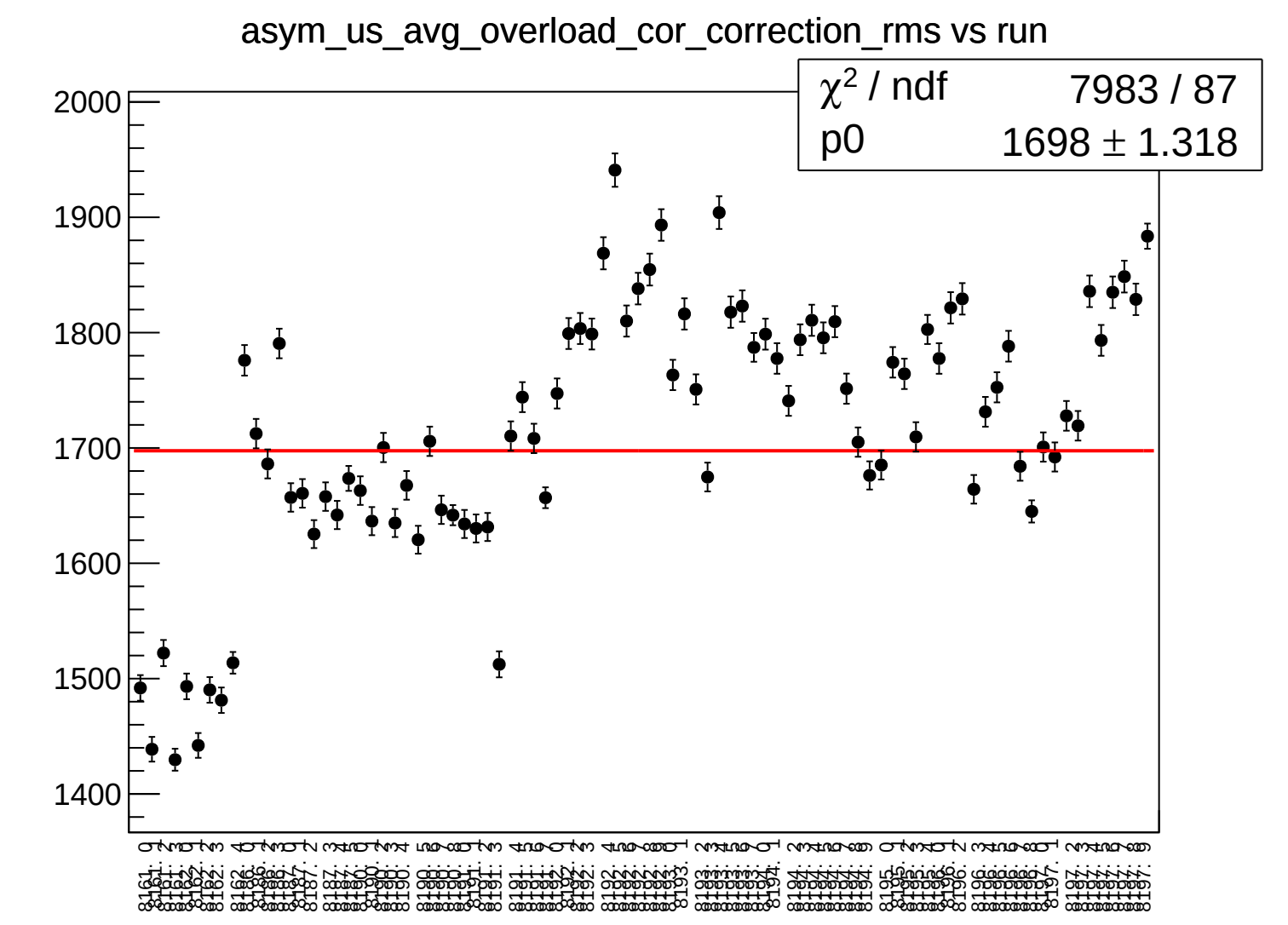
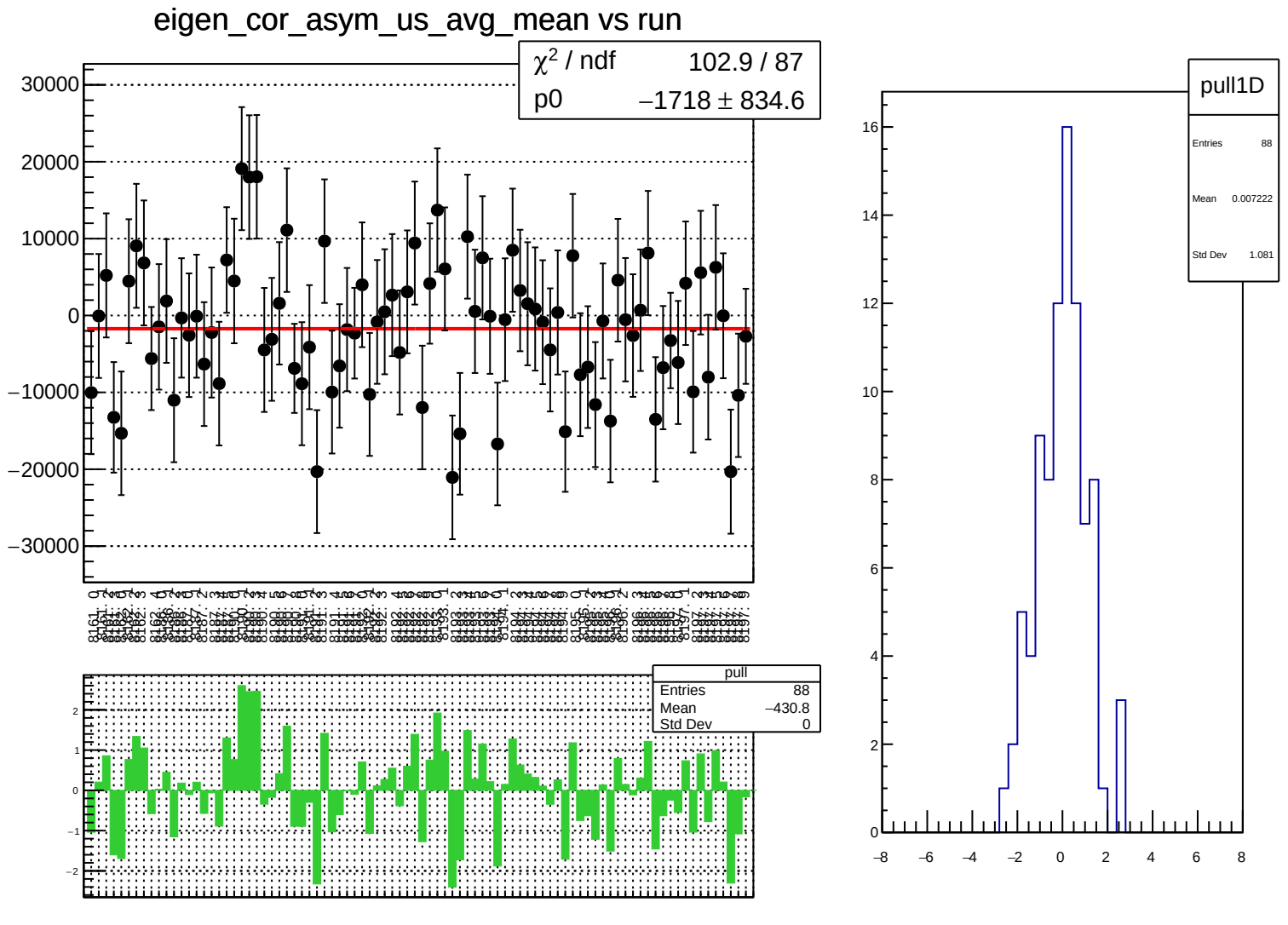
2
4
6
8

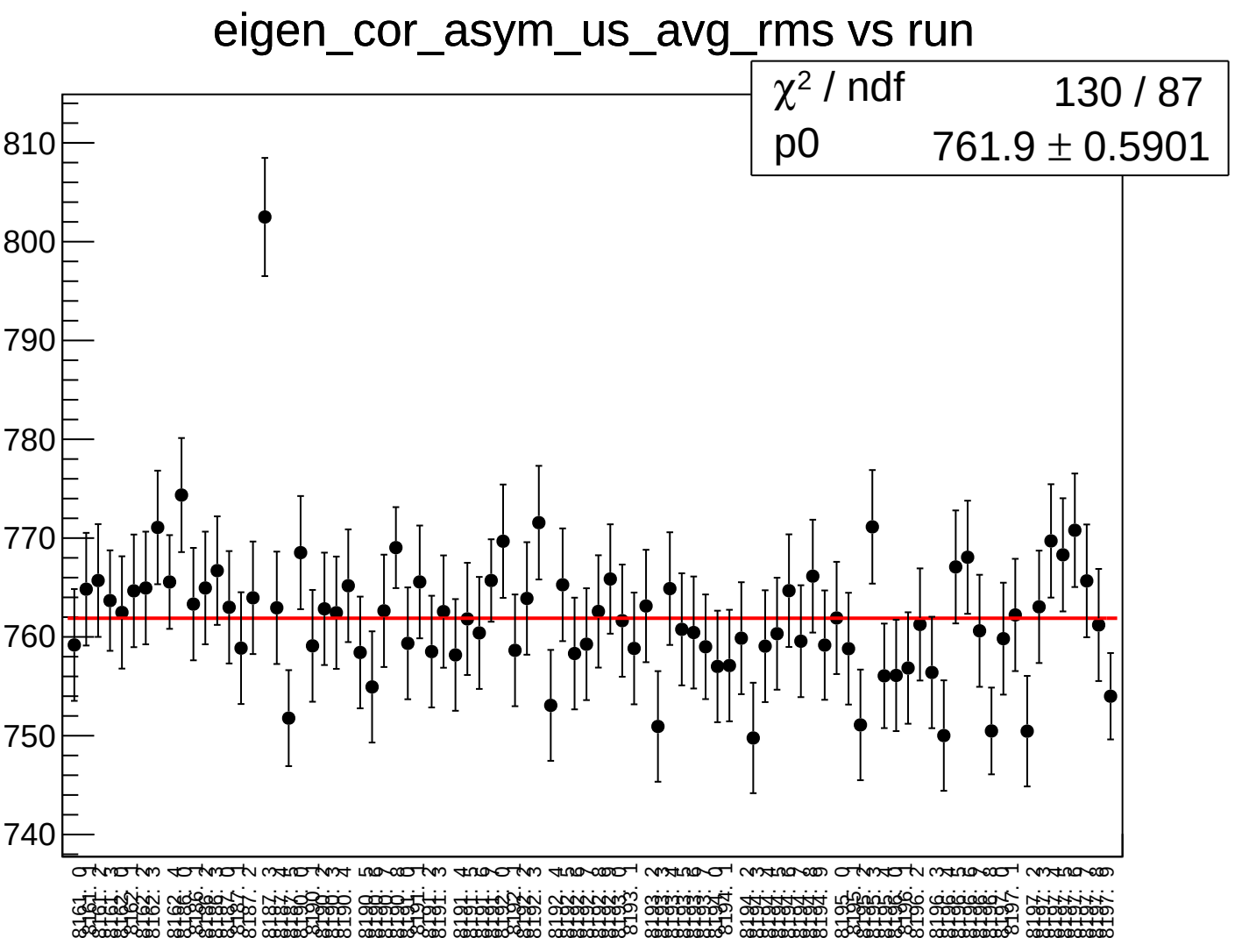

overload_cor_asym_us_avg_rms vs run
χ² / ndf 130 / 87
p0 761 ± 0.5895
810
800
790
780
770
760
750
740

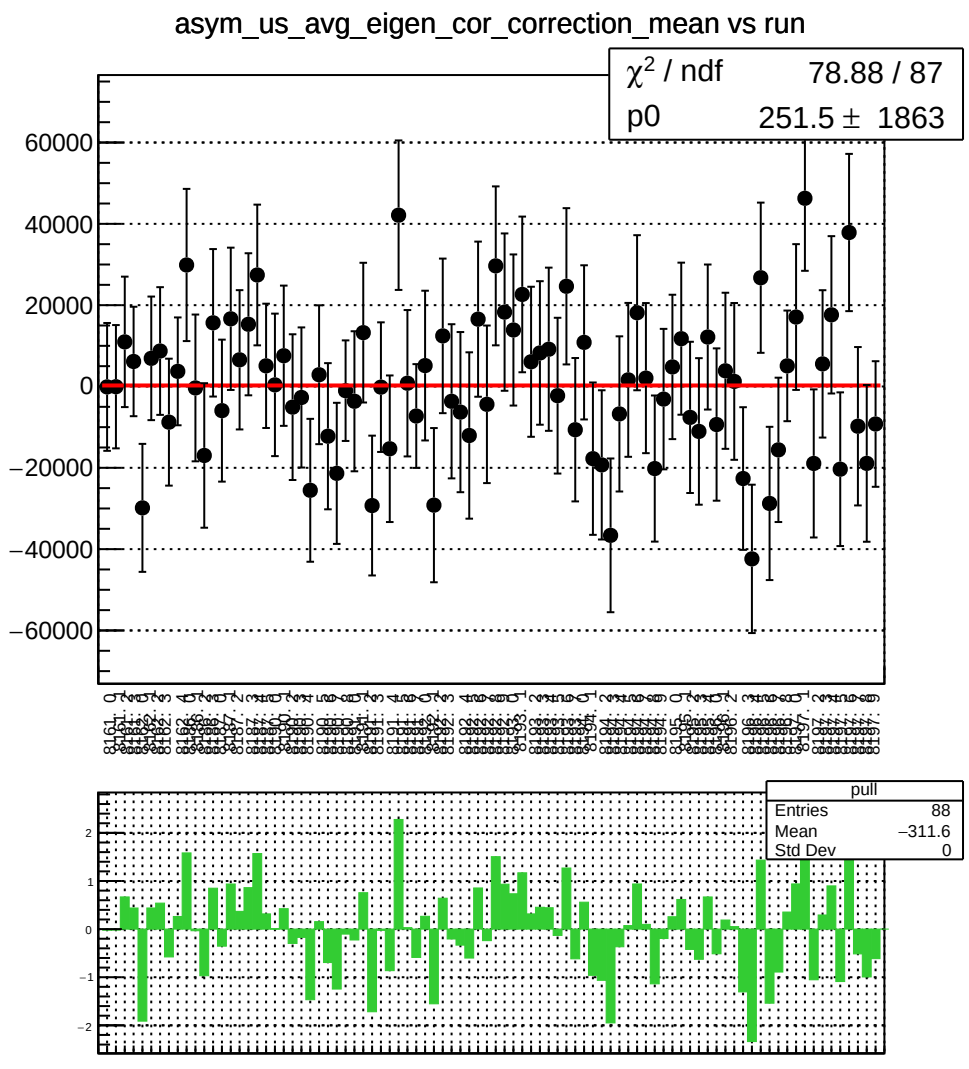

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 79.12 / 87
p0 172.1 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −320.8
Std Dev 0
2
1
0
−1
−2

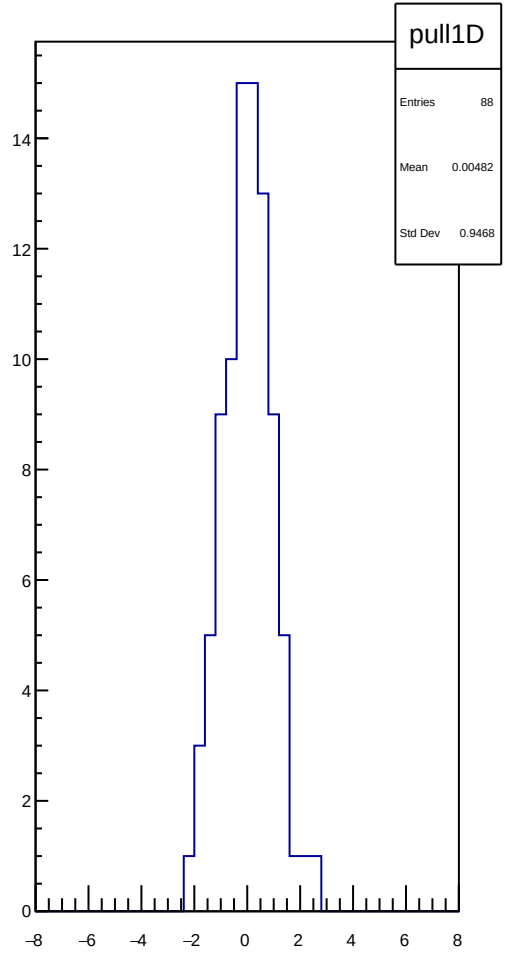

pull1D
Entries 88
Mean 0.004612
Std Dev 0.9482
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

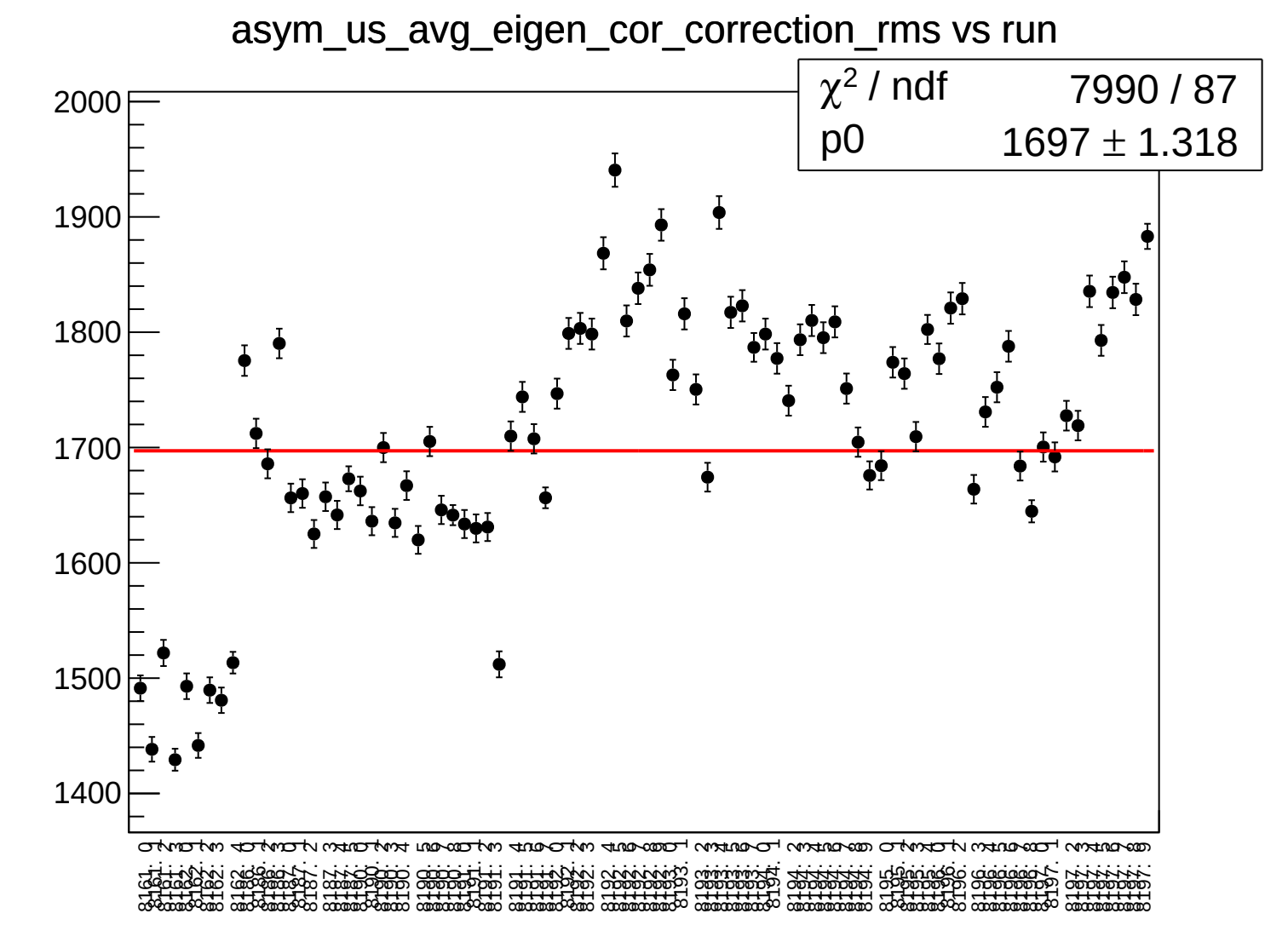

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 7983 / 87
p0 1698 ± 1.318
2000
1900
1800
1700
1600
1500
1400

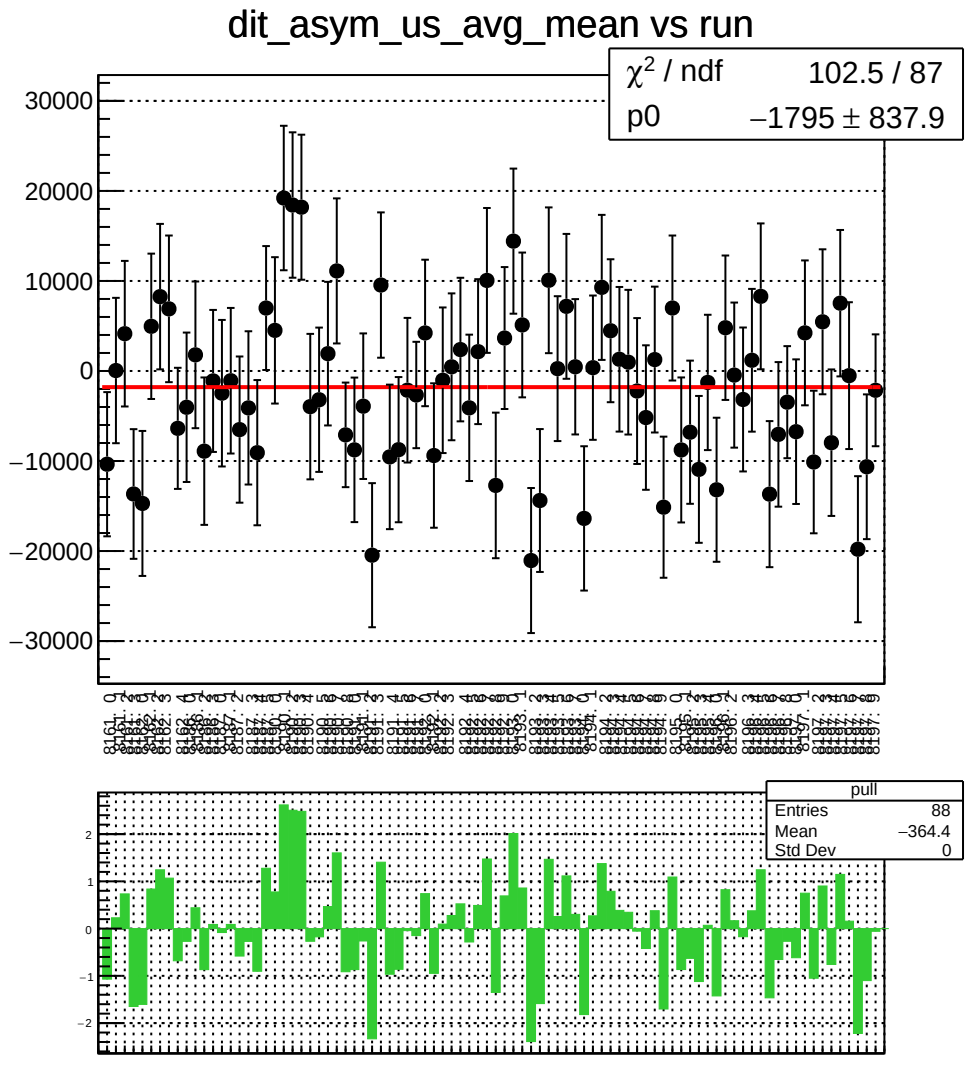

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 102.9 / 87
p0 −1718 ± 834.6
pull
Entries 88
Mean −430.8
Std Dev 0
pull1D
Entries 88
Mean 0.007222
Std Dev 1.081

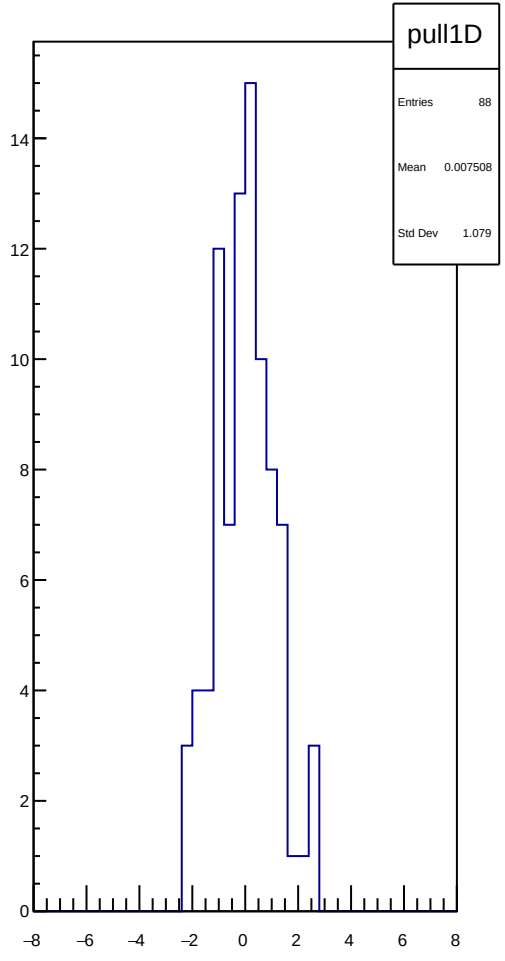

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 130 / 87
p0 761.9 ± 0.5901
810
800
790
780
770
760
750
740

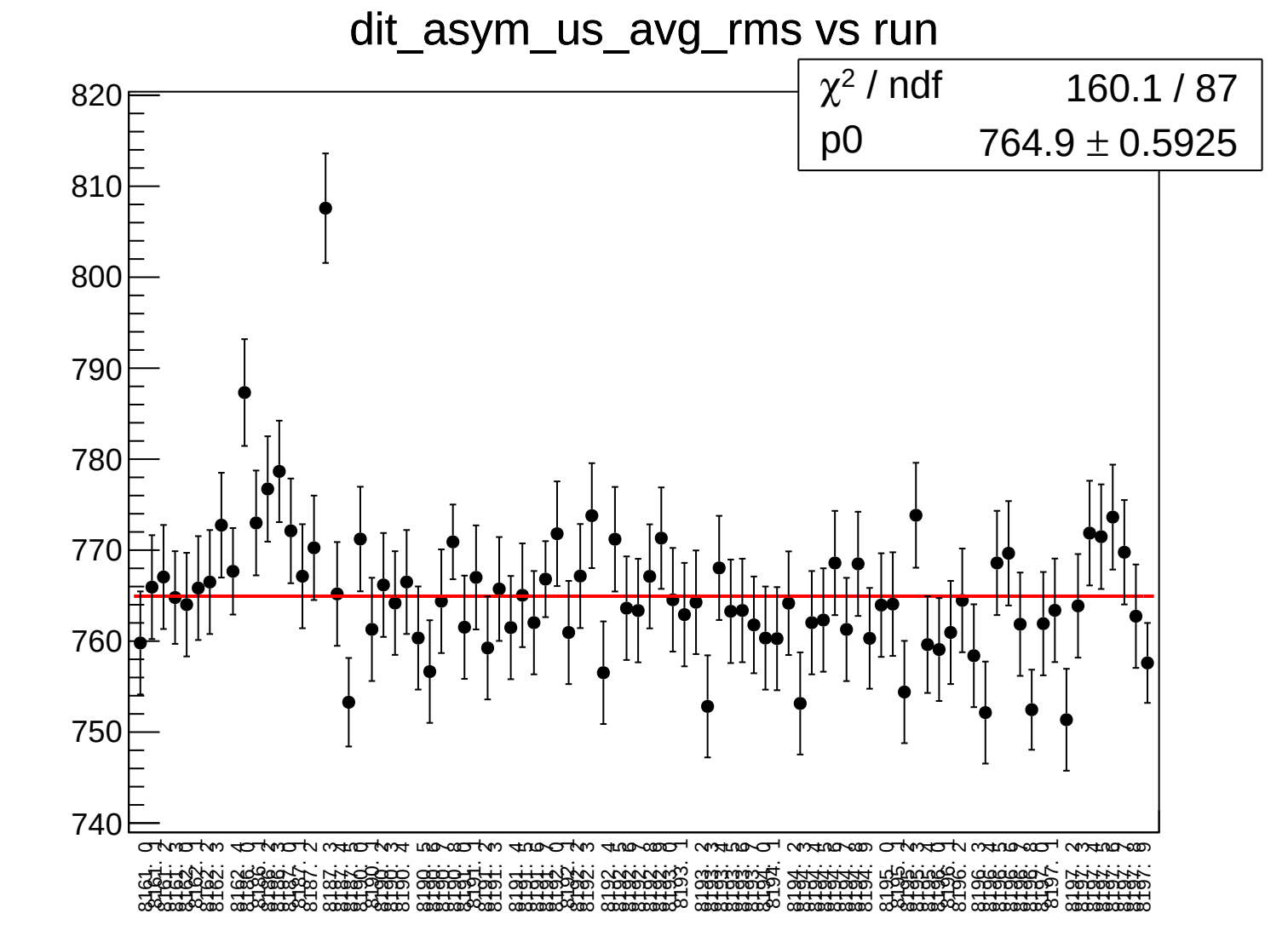

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.88 / 87
p0 251.5 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −311.6
Std Dev 0
2
1
0
−1
−2

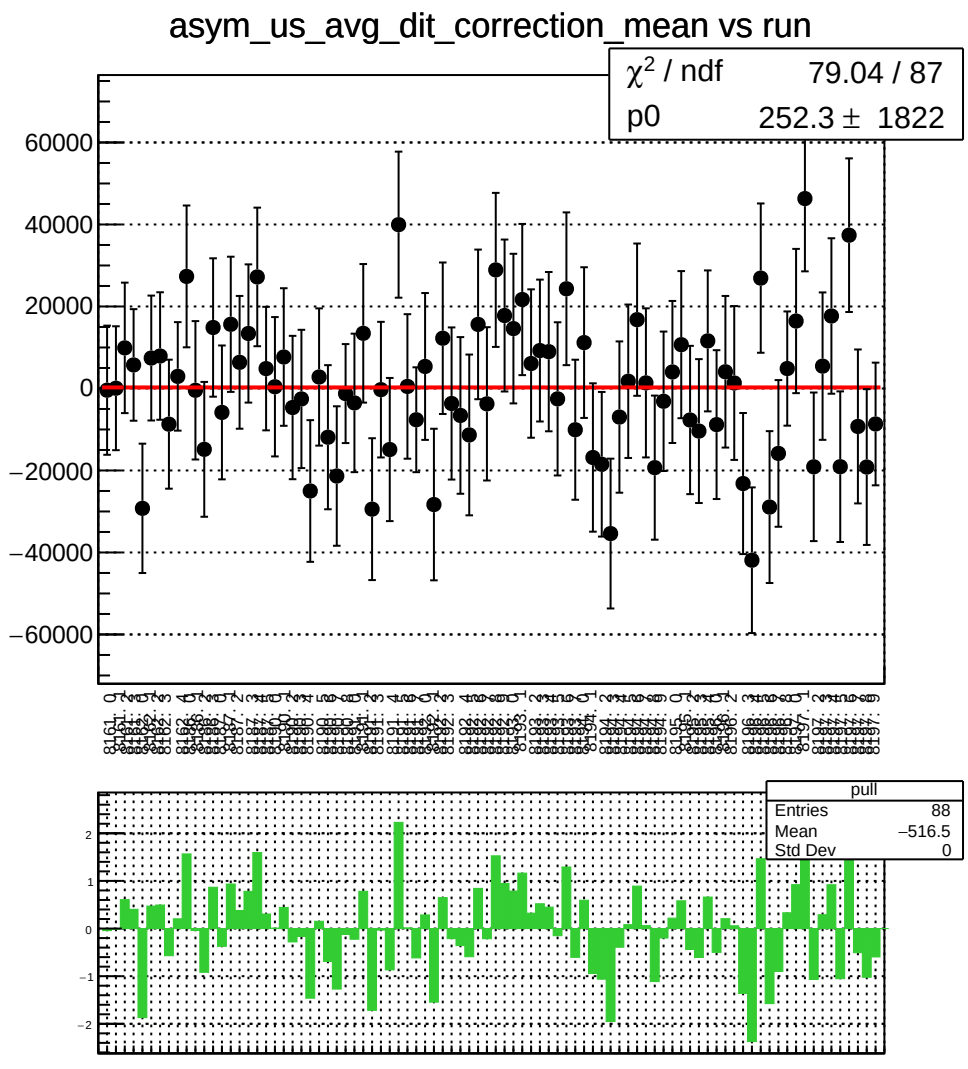

pull1D
Entries 88
Mean 0.00482
Std Dev 0.9468
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

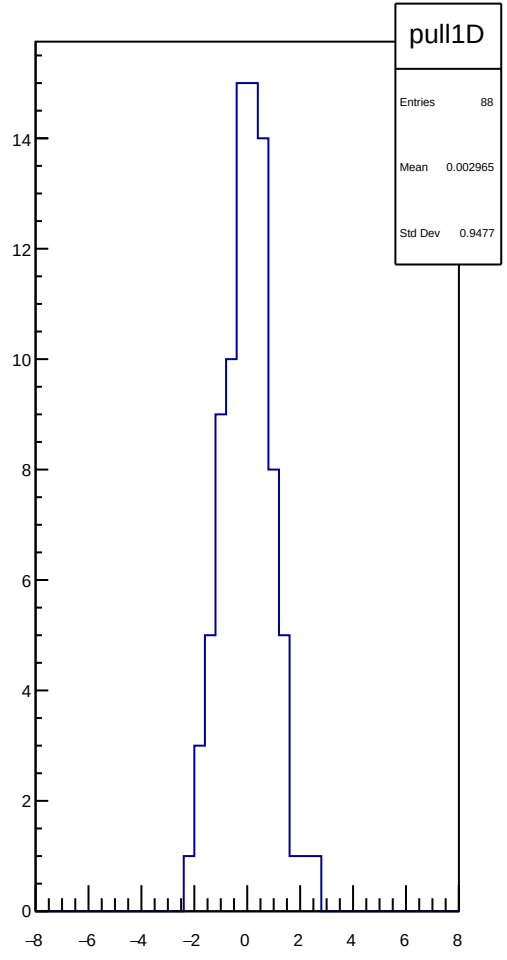

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 7990 / 87
p0 1697 ± 1.318
2000
1900
1800
1700
1600
1500
1400


dit_asym_us_avg_mean vs run
χ² / ndf 102.5 / 87
p0 −1795 ± 837.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −364.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.007508
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_rms vs run
χ^2 / ndf 160.1 / 87
p0 764.9 ± 0.5925
820
810
800
790
780
770
760
750
740


asym_us_avg_dit_correction_mean vs run
χ² / ndf 79.04 / 87
p0 252.3 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −516.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.002965
Std Dev 0.9477
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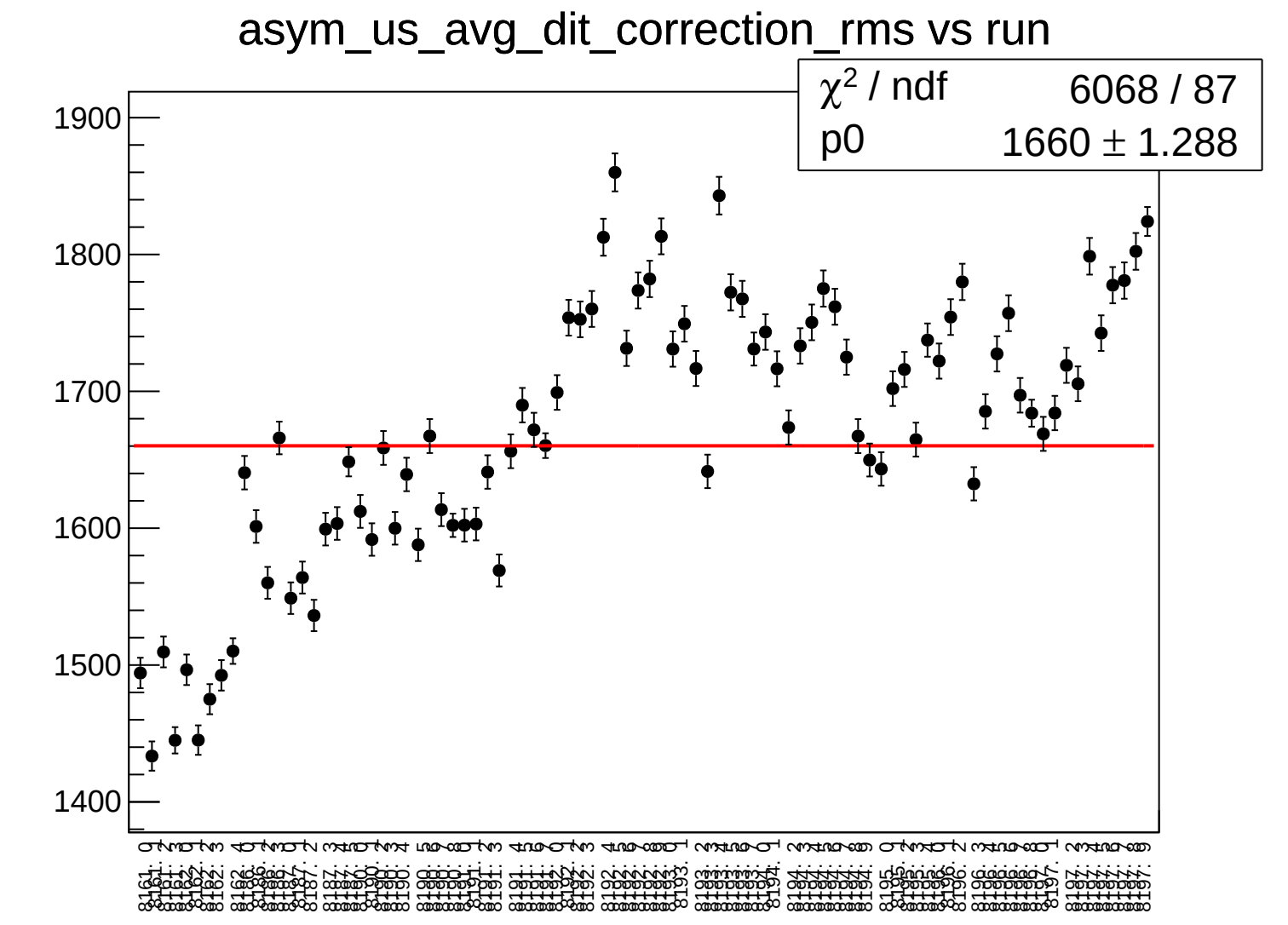
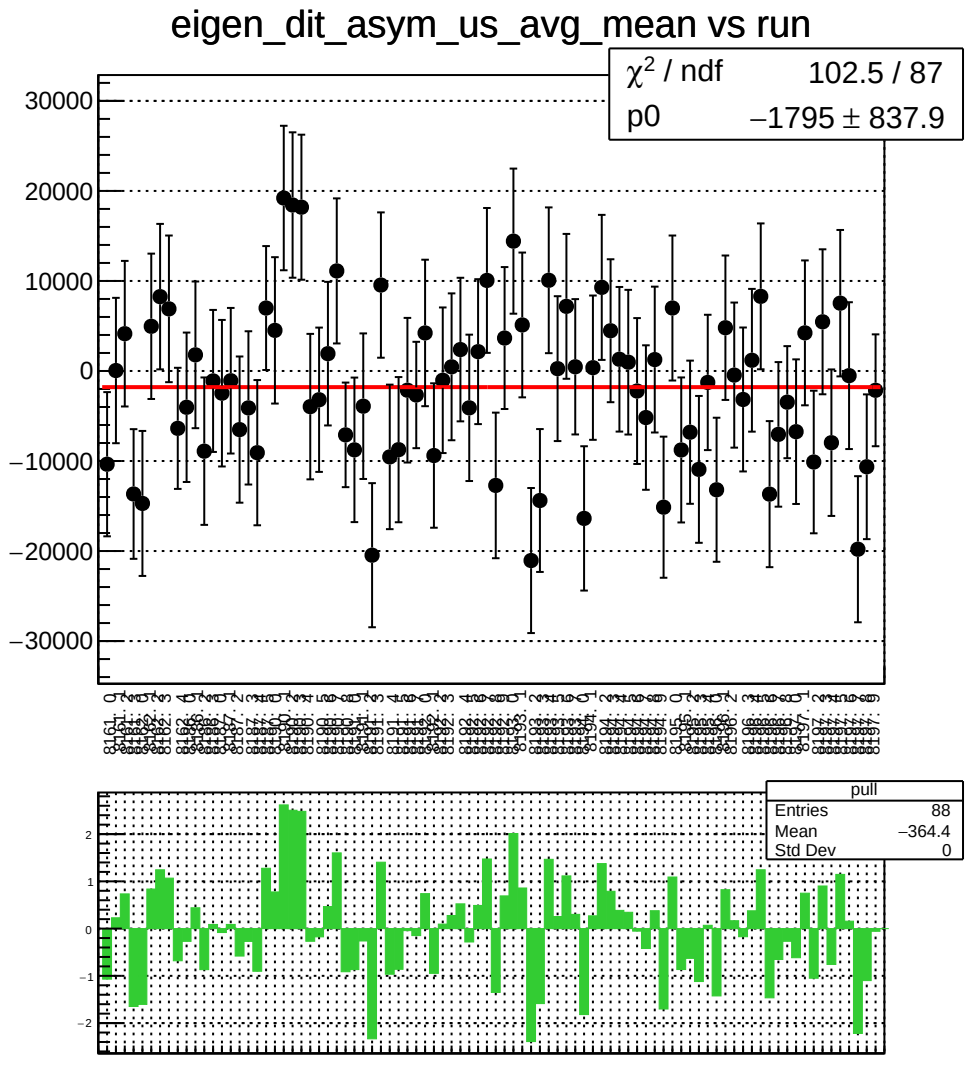
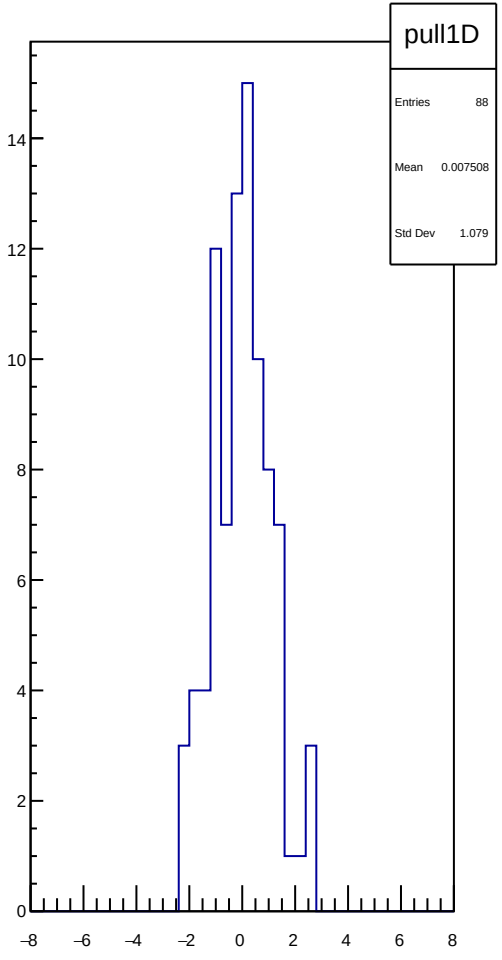
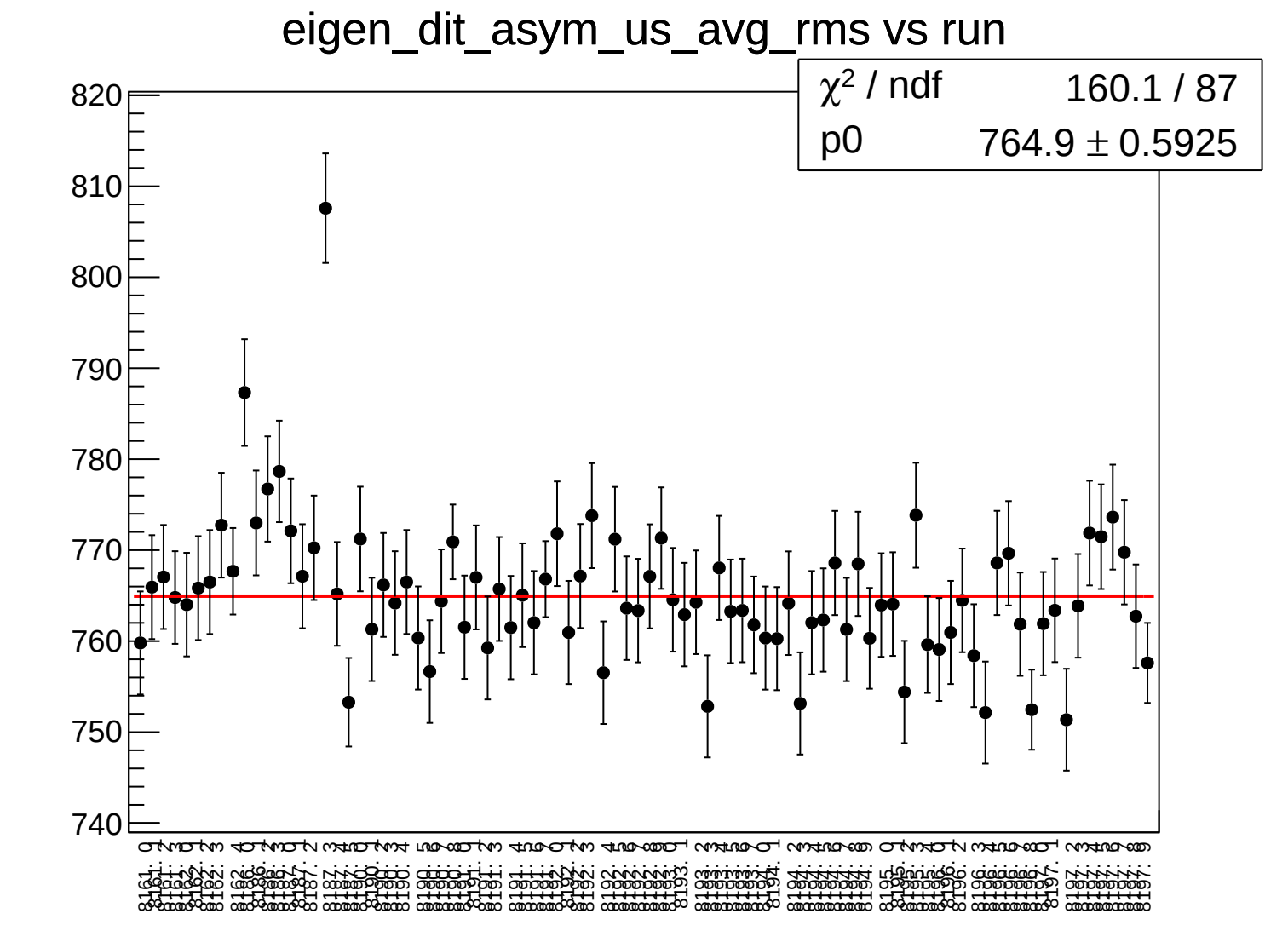
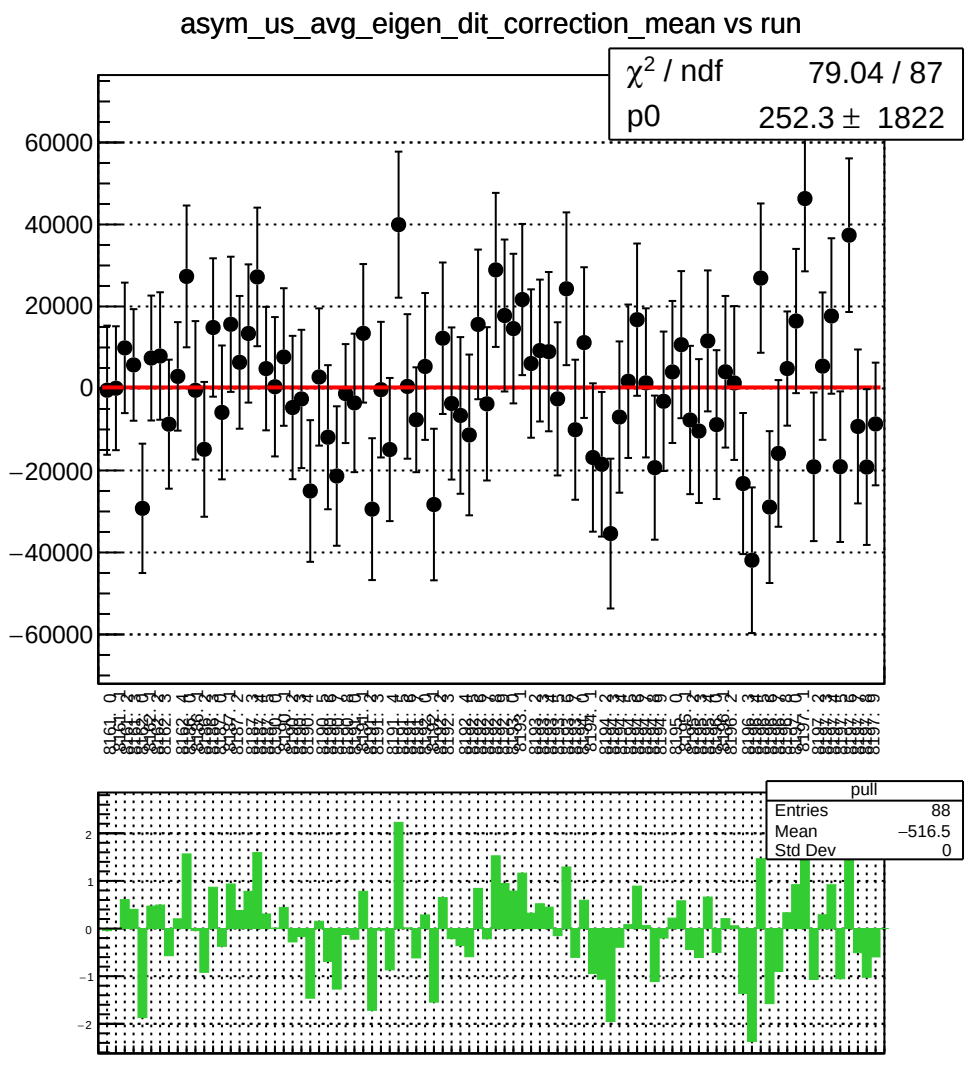
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

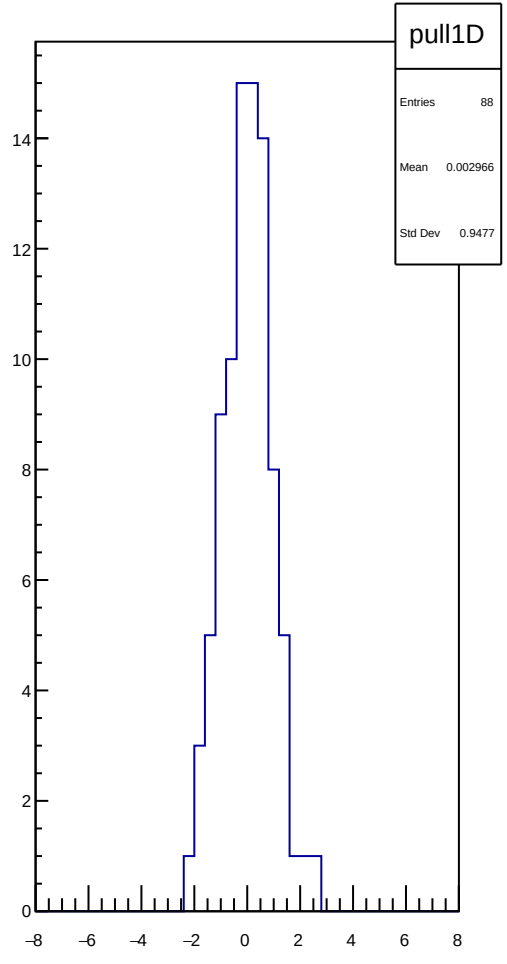

asym_us_avg_dit_correction_rms vs run
χ² / ndf 6068 / 87
p0 1660 ± 1.288
1900
1800
1700
1600
1500
1400


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 102.5 / 87
p0 −1795 ± 837.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −364.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.007508
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_rms vs run
χ² / ndf 160.1 / 87
p0 764.9 ± 0.5925
820
810
800
790
780
770
760
750
740


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.04 / 87
p0 252.3 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −516.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.002966
Std Dev 0.9477
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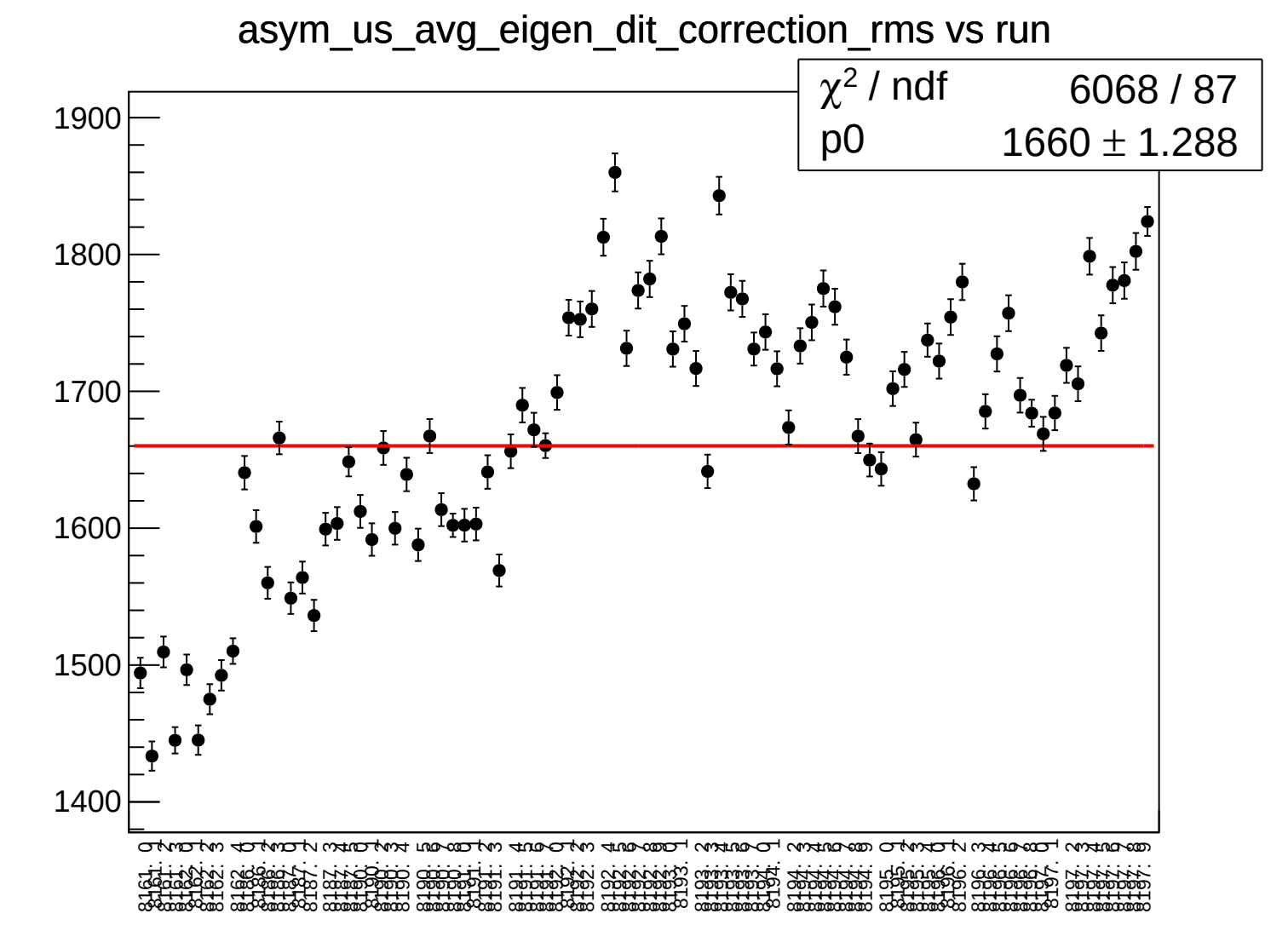
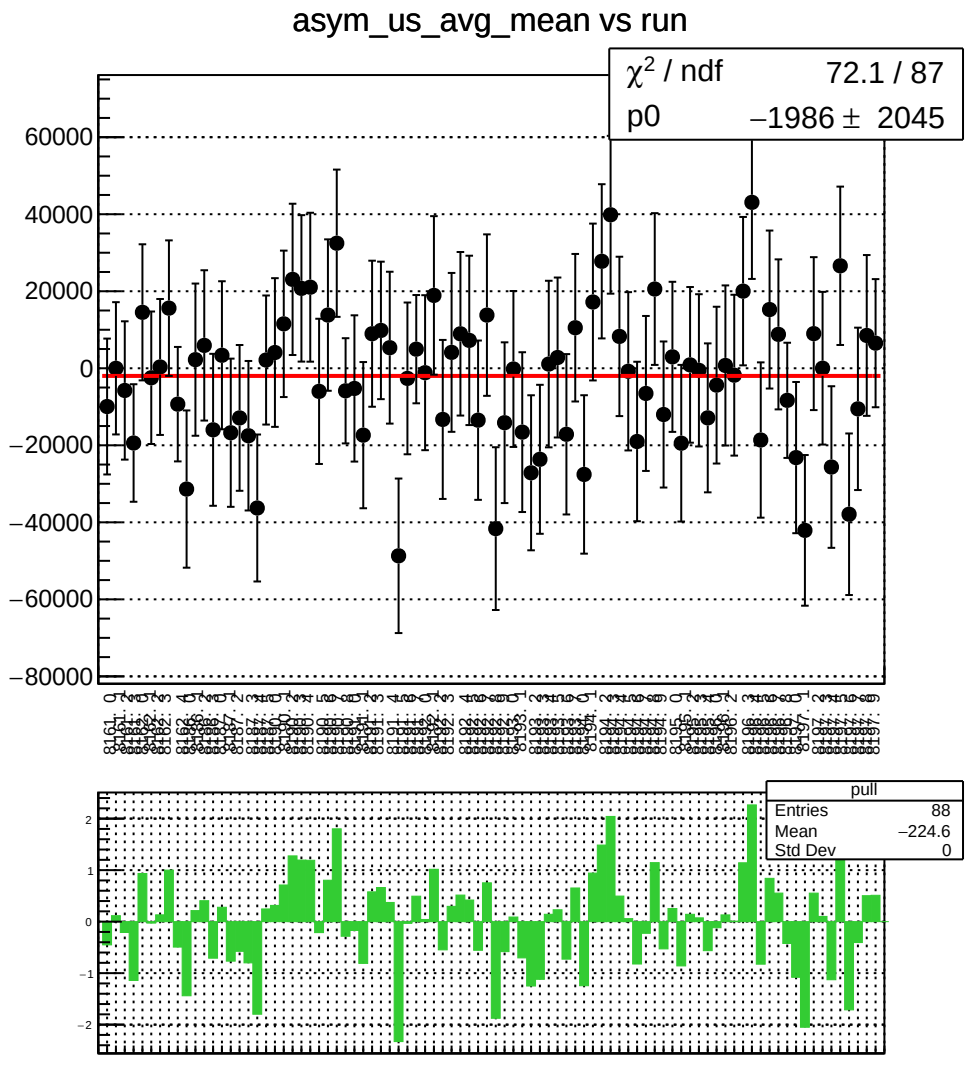
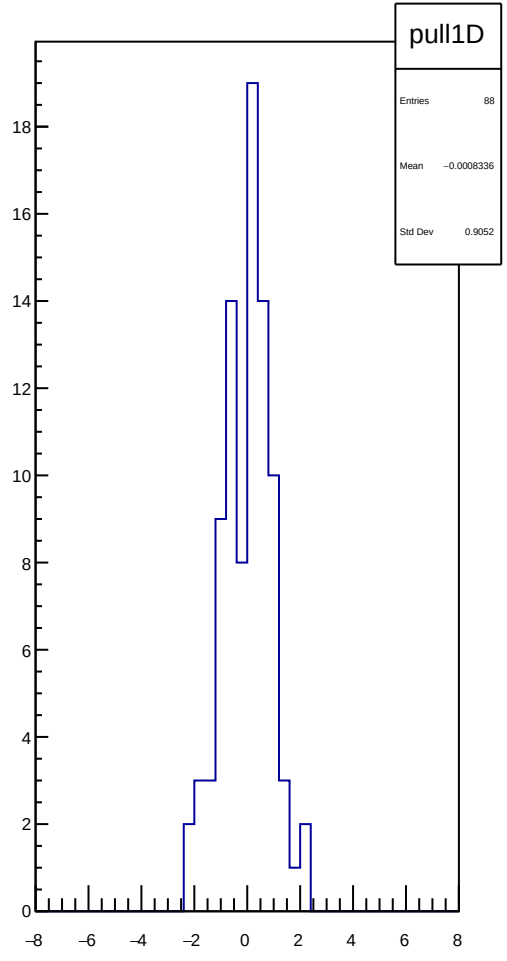
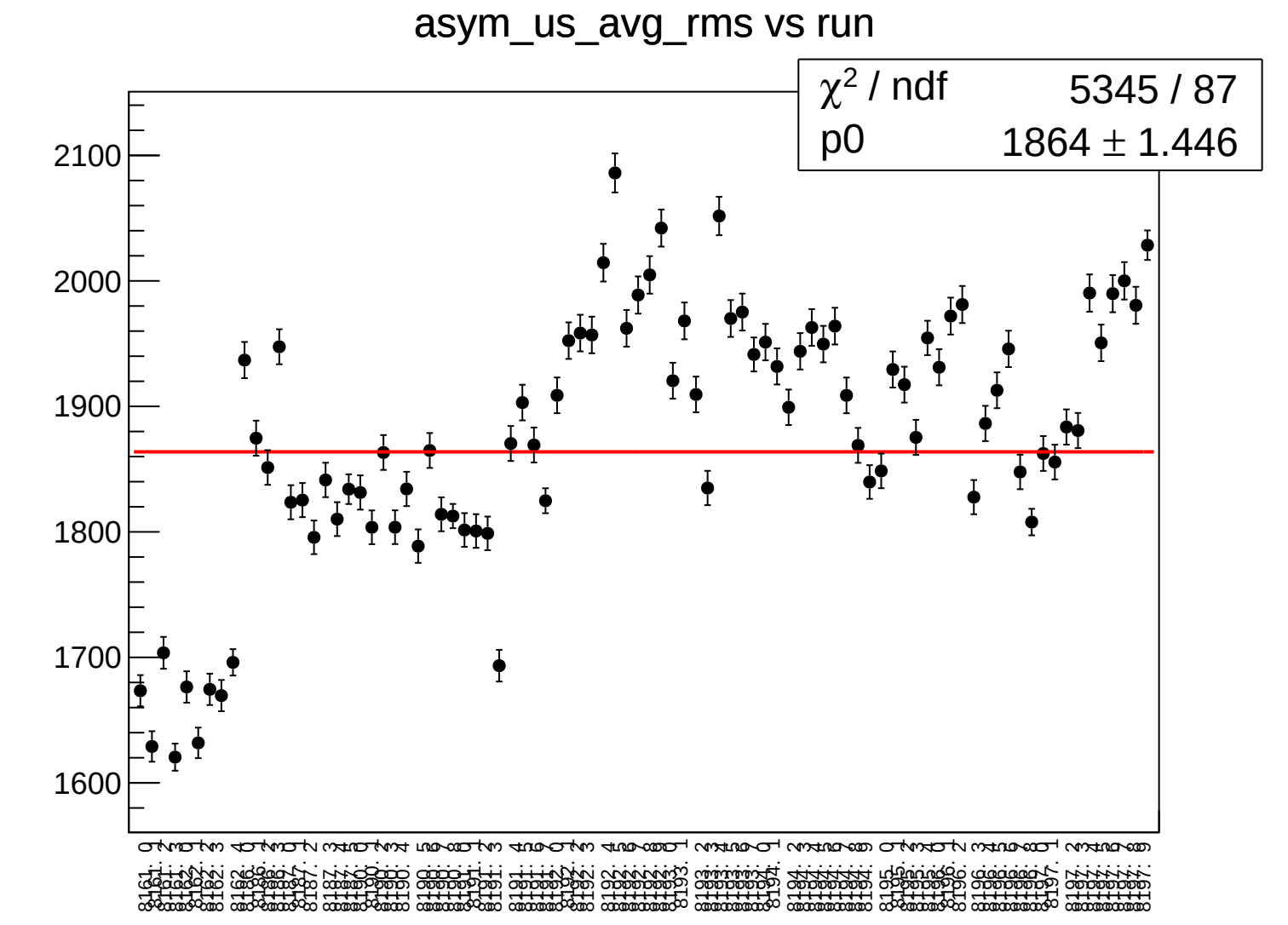
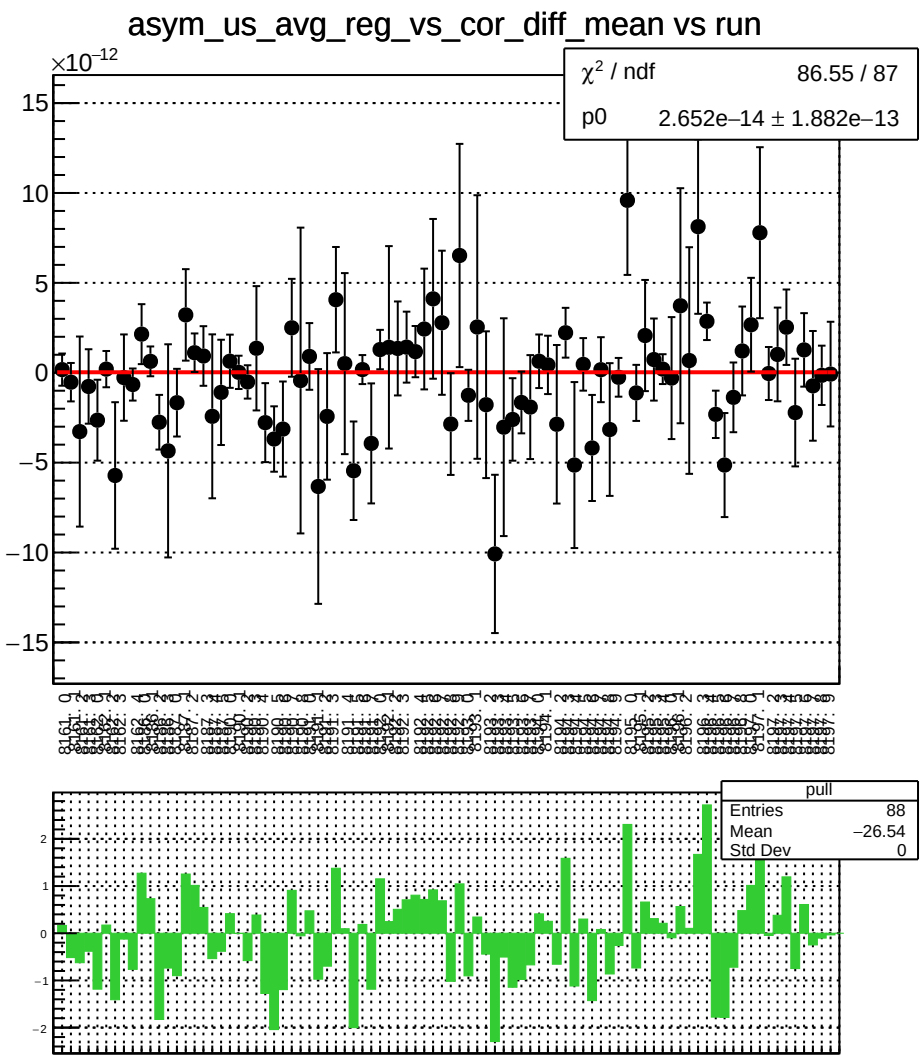
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

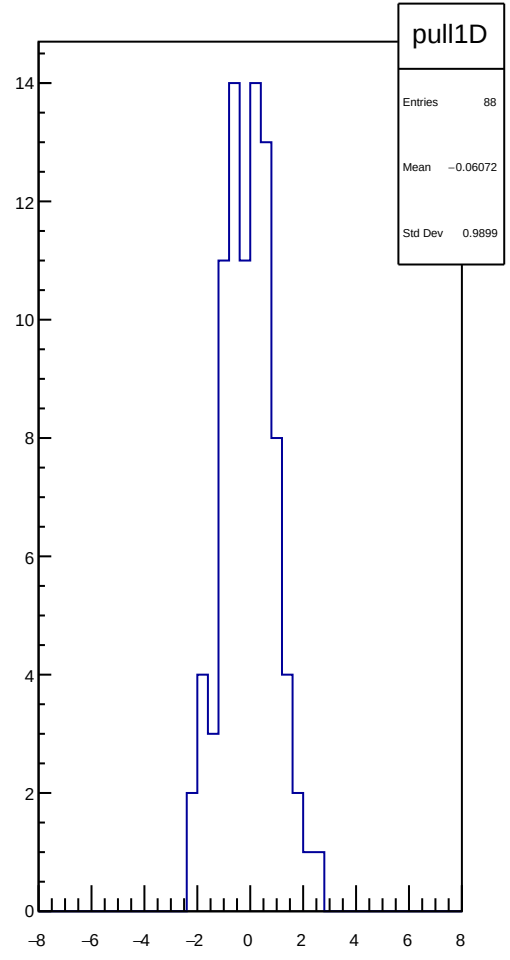

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 6068 / 87
p0 1660 ± 1.288
1900
1800
1700
1600
1500
1400

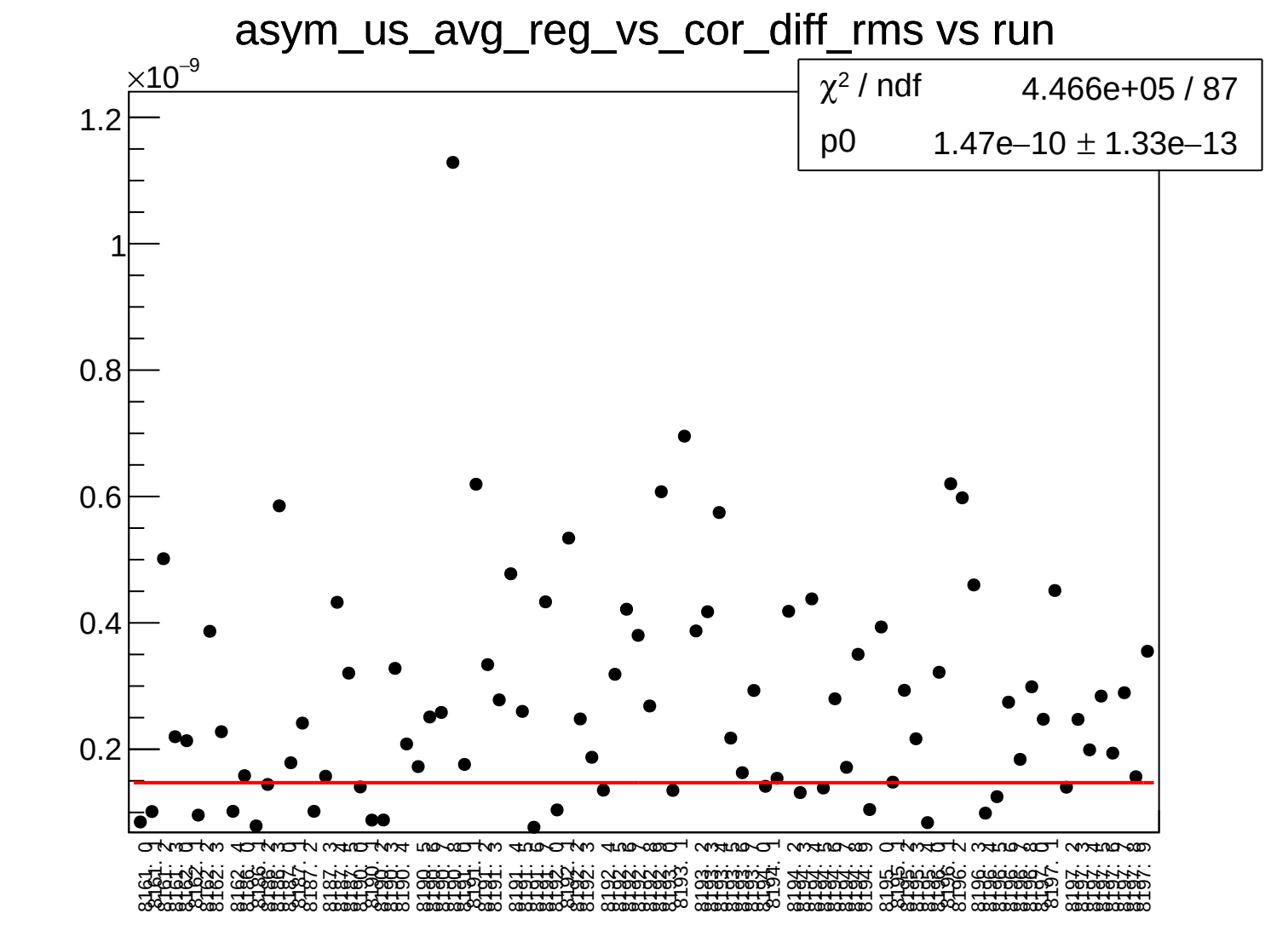

asym_us_avg_mean vs run
χ² / ndf 72.1 / 87
p0 −1986 ± 2045
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −224.6
Std Dev 0
2
1
0
−1
−2

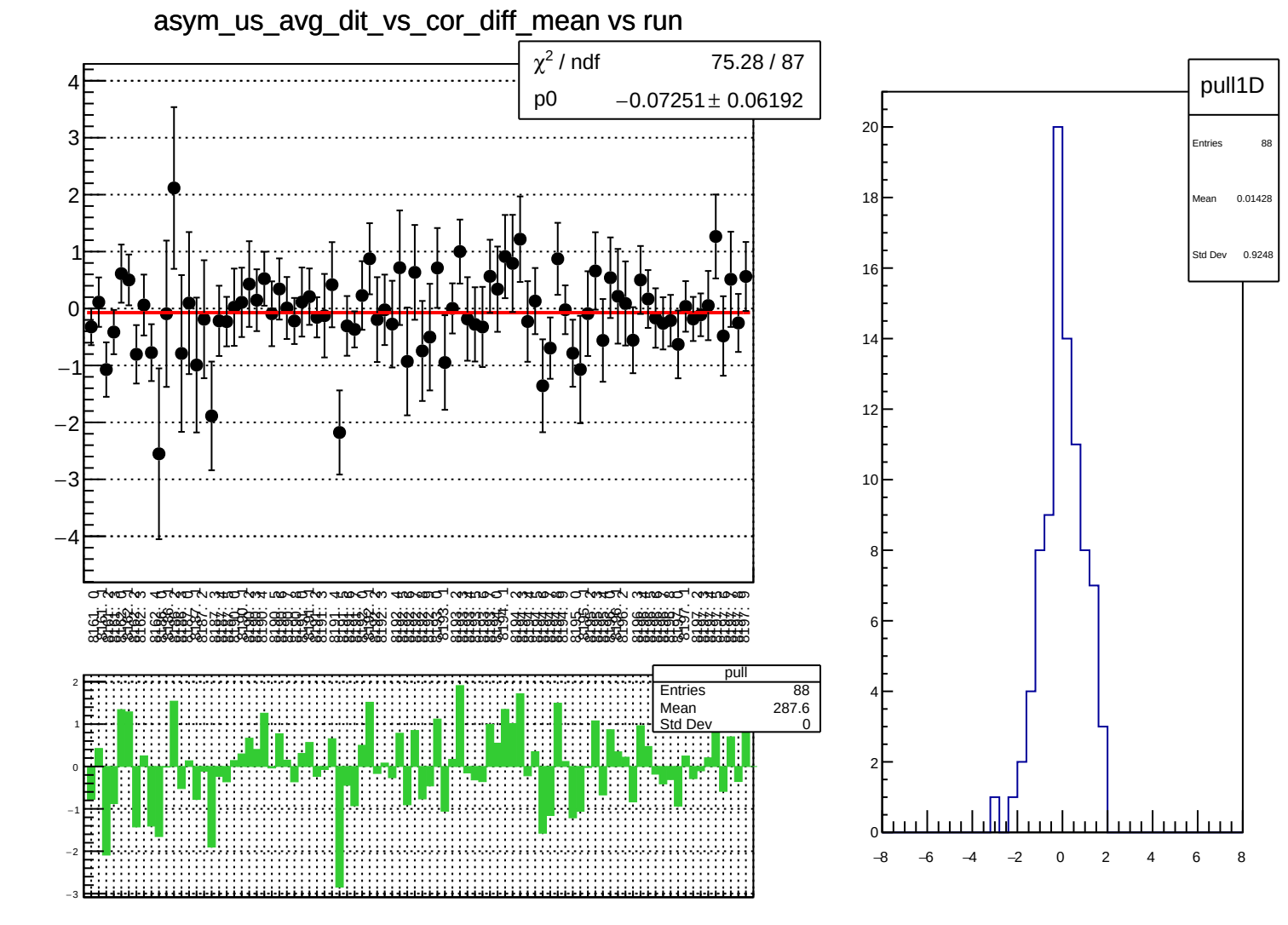

pull1D
Entries 88
Mean −0.0008336
Std Dev 0.9052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

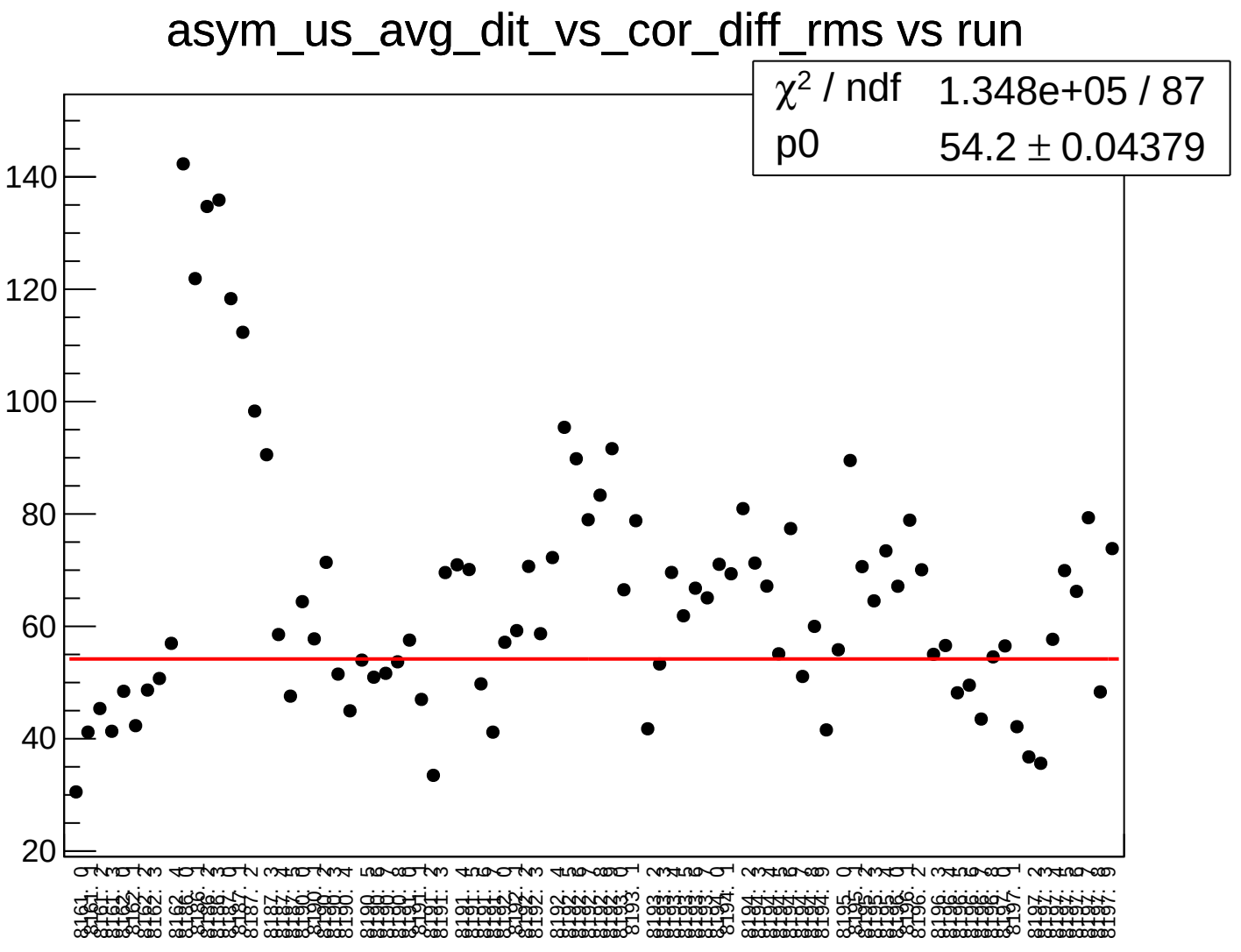

asym_us_avg_rms vs run
χ² / ndf 5345 / 87
p0 1864 ± 1.446
2100
2000
1900
1800
1700
1600

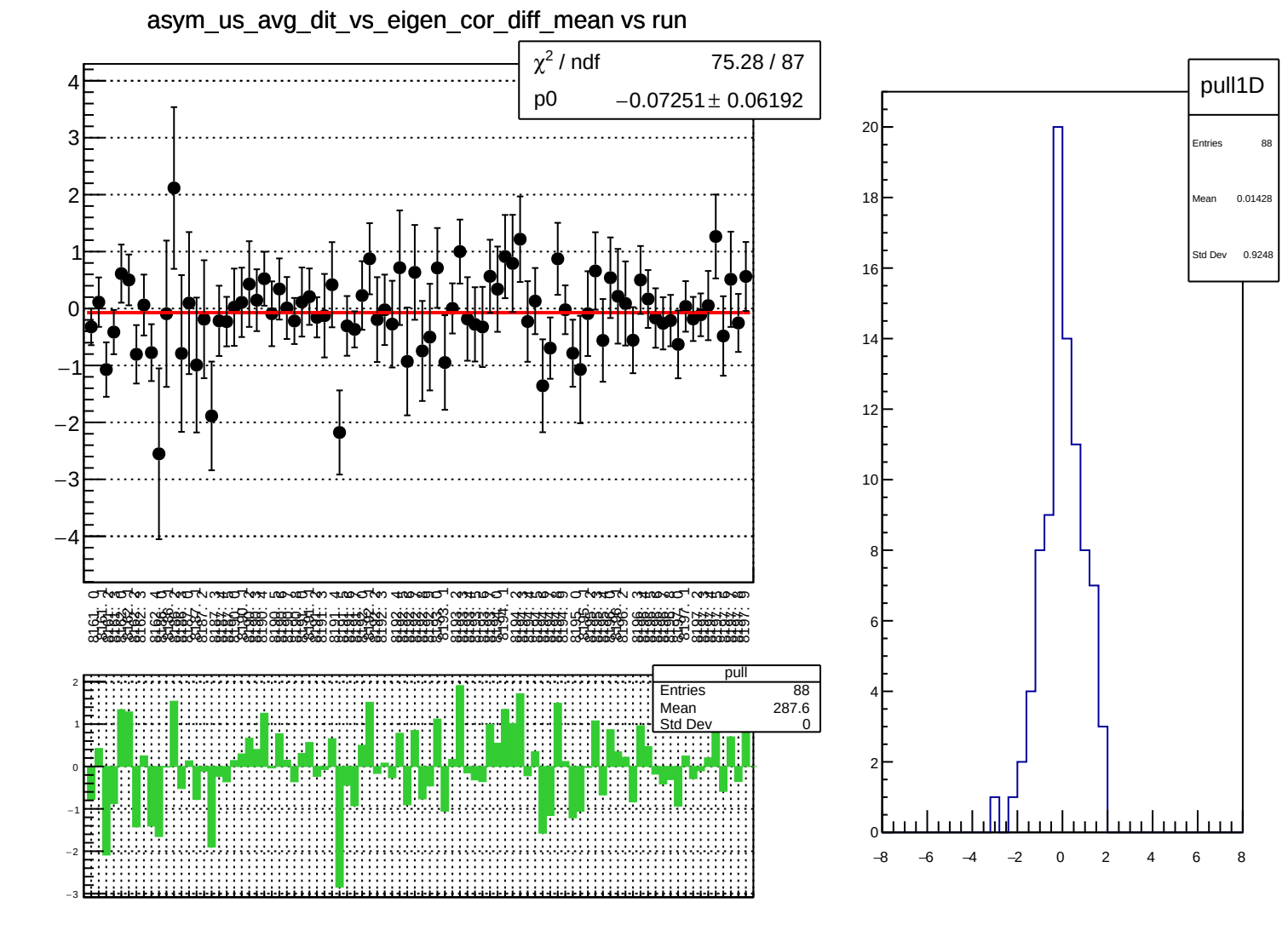

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.55 / 87
p0 2.652e−14 ± 1.882e−13
pull
Entries 88
Mean −26.54
Std Dev 0

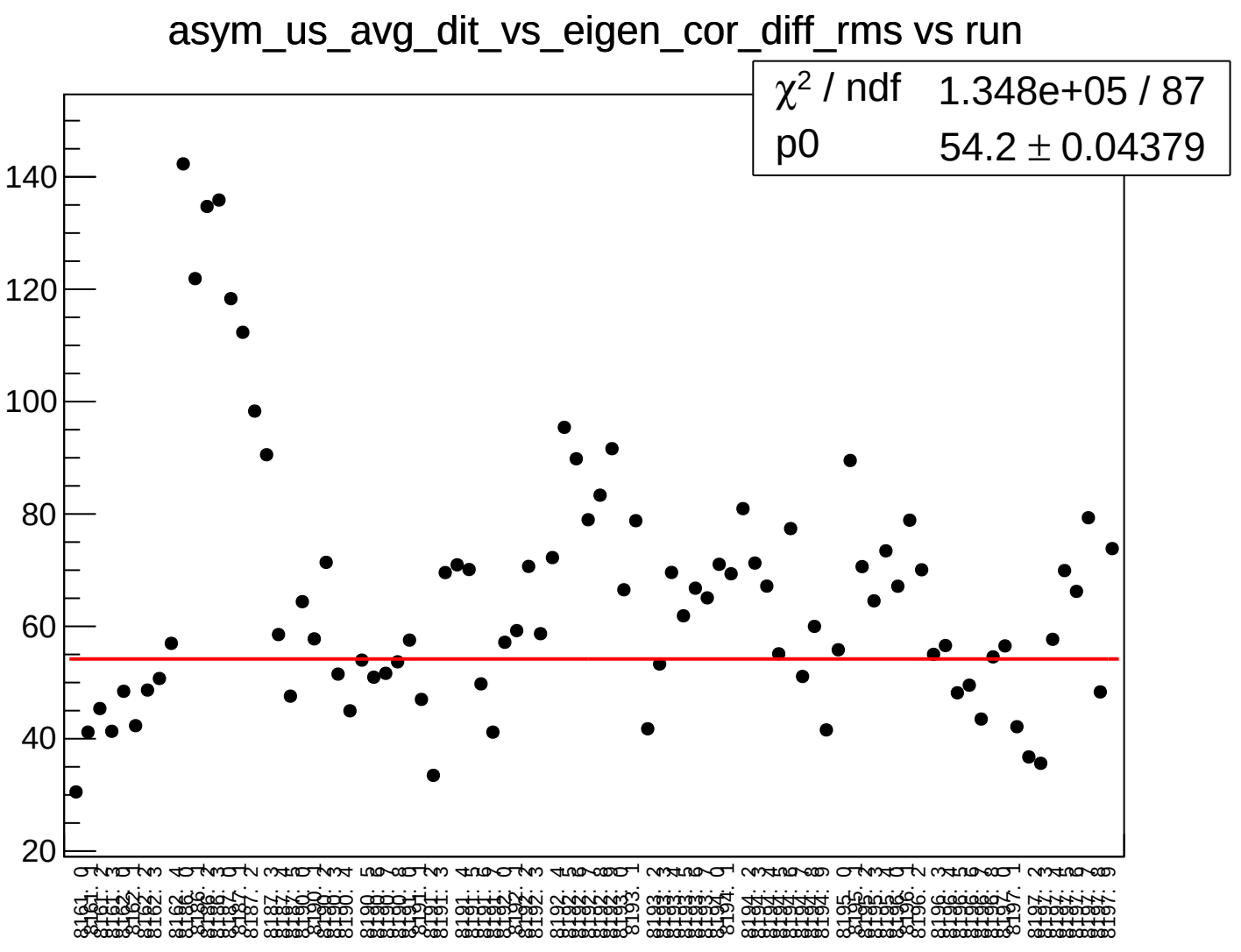

pull1D
Entries 88
Mean −0.06072
Std Dev 0.9899

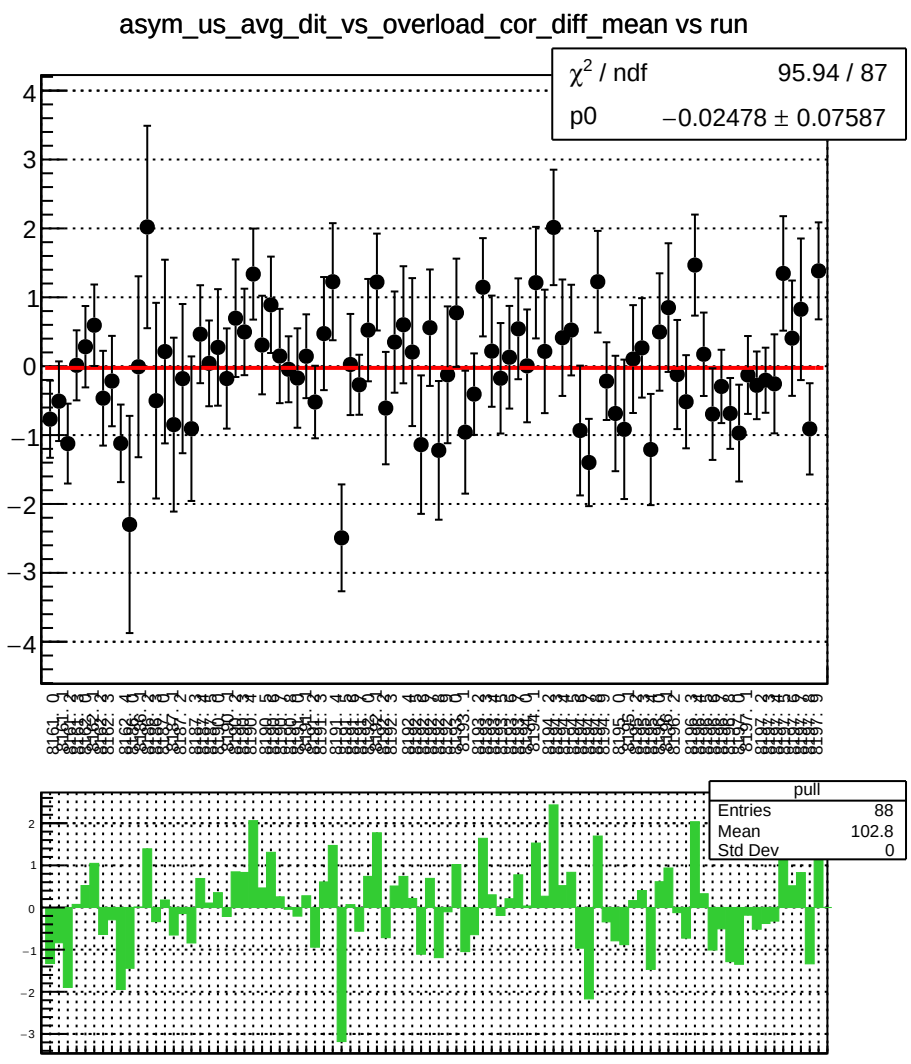

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.466e+05 / 87
p0 1.47e−10 ± 1.33e−13
1.2
1
0.8
0.6
0.4
0.2

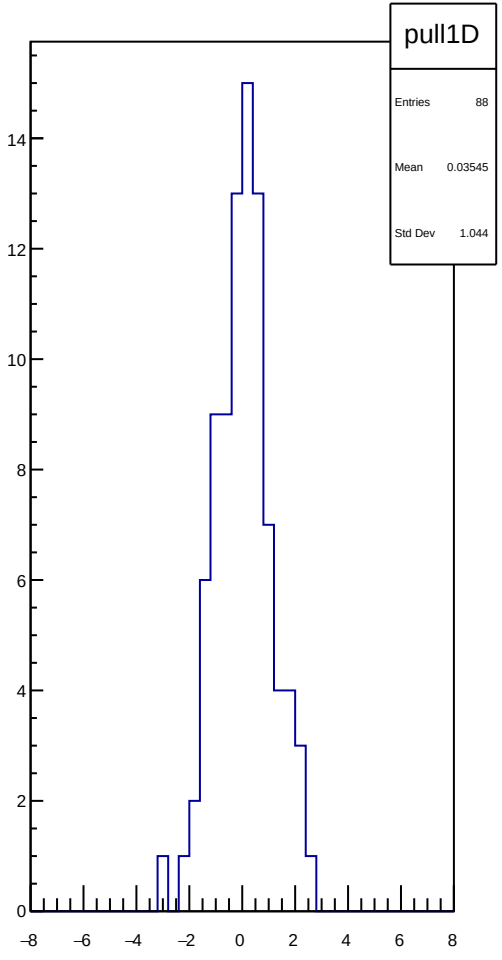

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.28 / 87
p0 −0.07251 ± 0.06192
pull
Entries 88
Mean 287.6
Std Dev 0
pull1D
Entries 88
Mean 0.01428
Std Dev 0.9248

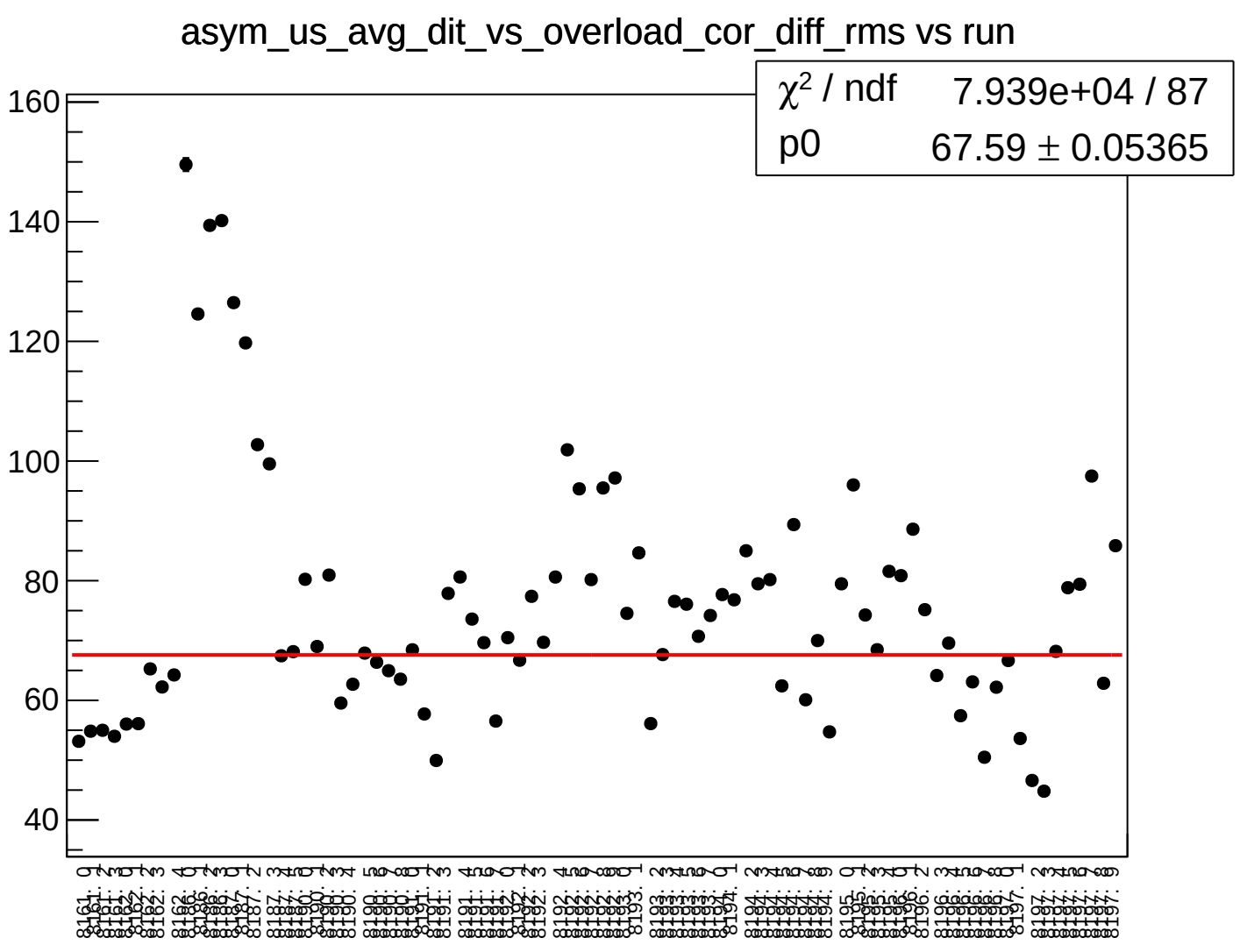

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.348e+05 / 87
p0 54.2 ± 0.04379
140
120
100
80
60
40
20

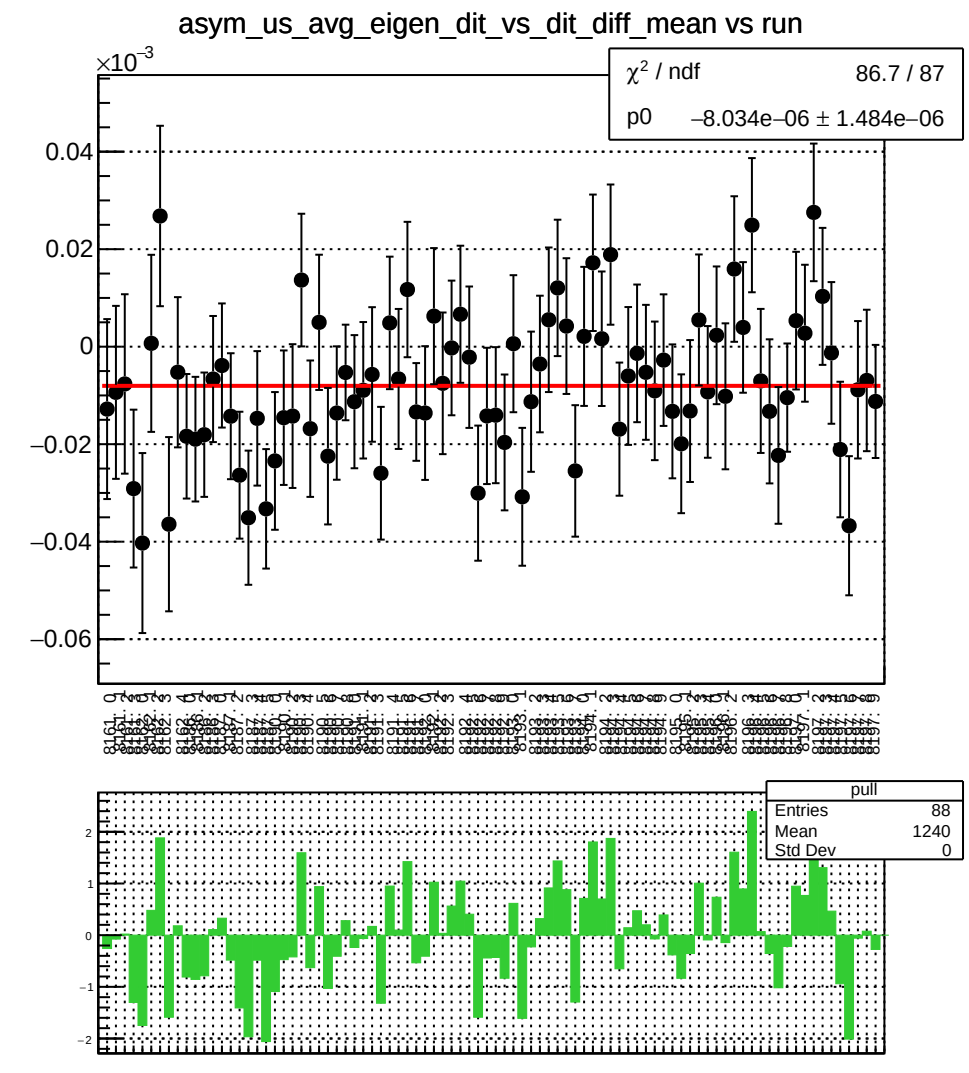

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.28 / 87
p0 −0.07251 ± 0.06192
pull
Entries 88
Mean 287.6
Std Dev 0
pull1D
Entries 88
Mean 0.01428
Std Dev 0.9248

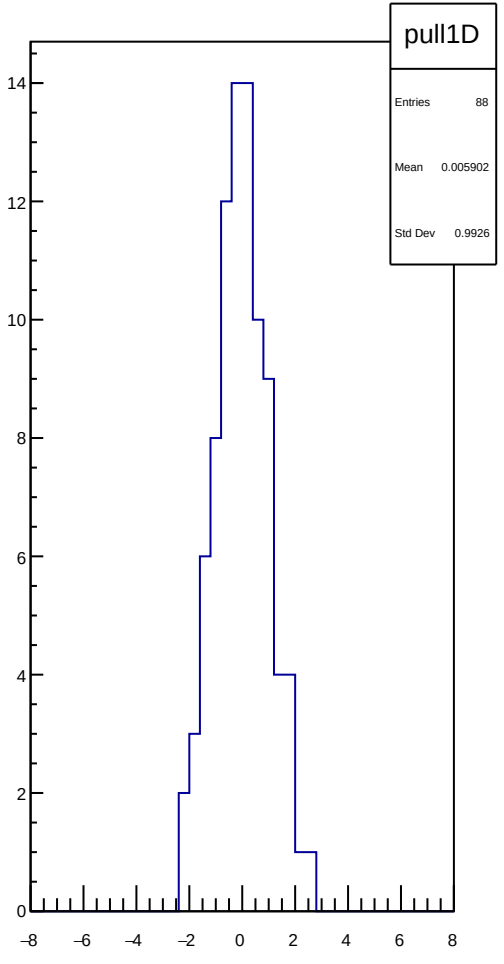

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.348e+05 / 87
p0 54.2 ± 0.04379
140
120
100
80
60
40
20

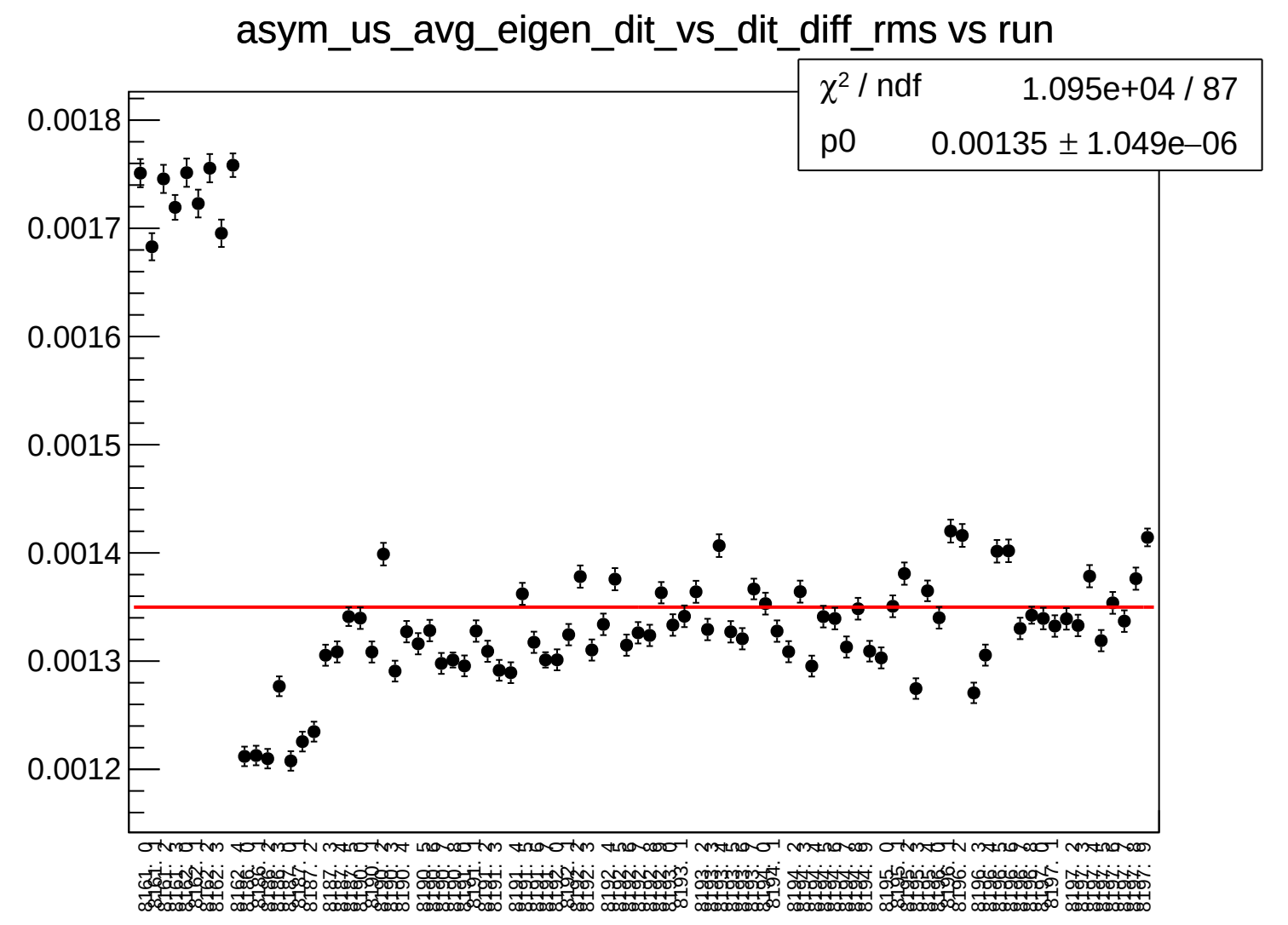

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.94 / 87
p0 −0.02478 ± 0.07587
pull
Entries 88
Mean 102.8
Std Dev 0

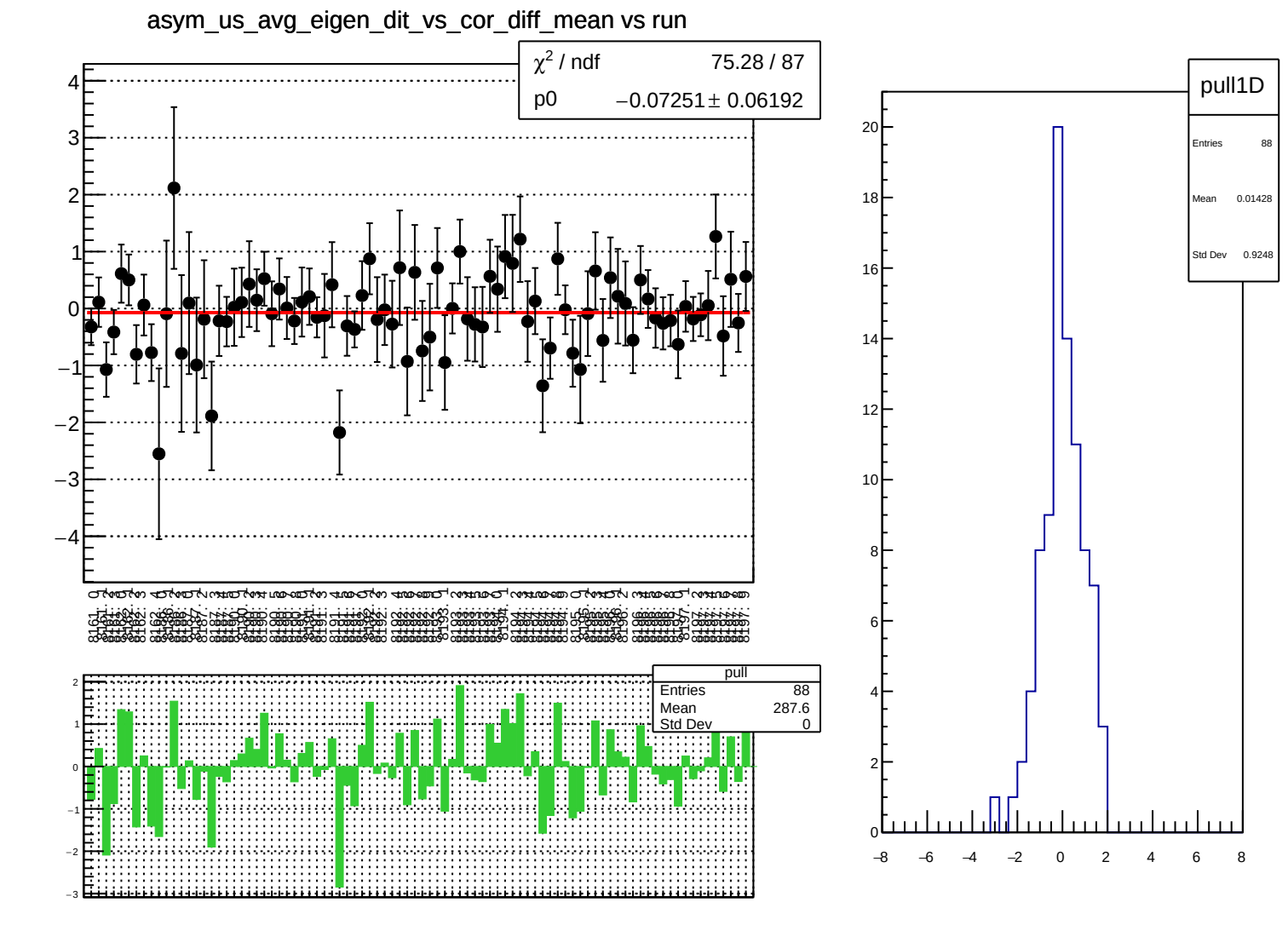

pull1D
Entries 88
Mean 0.03545
Std Dev 1.044

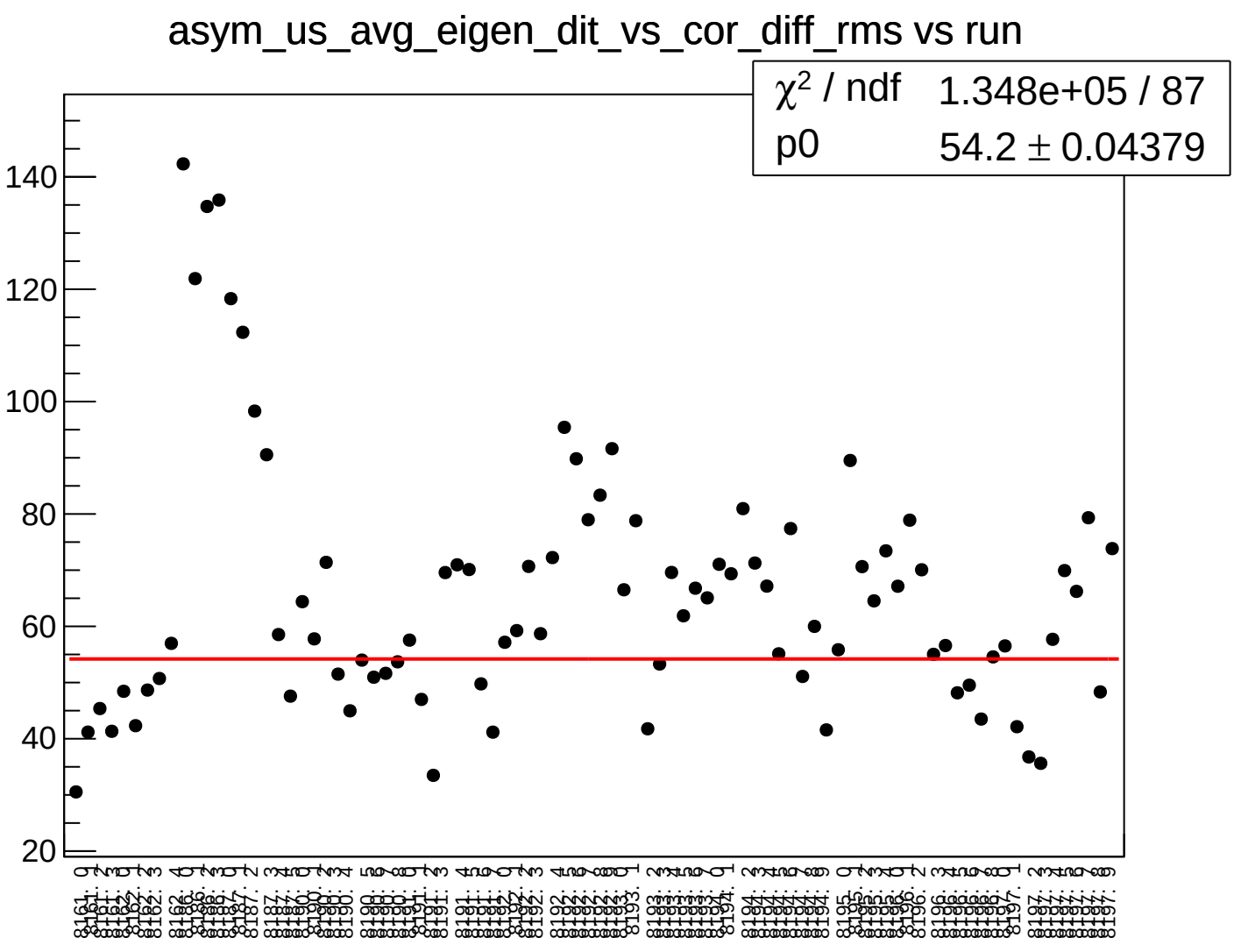

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.939e+04 / 87
p0 67.59 ± 0.05365
160
140
120
100
80
60
40

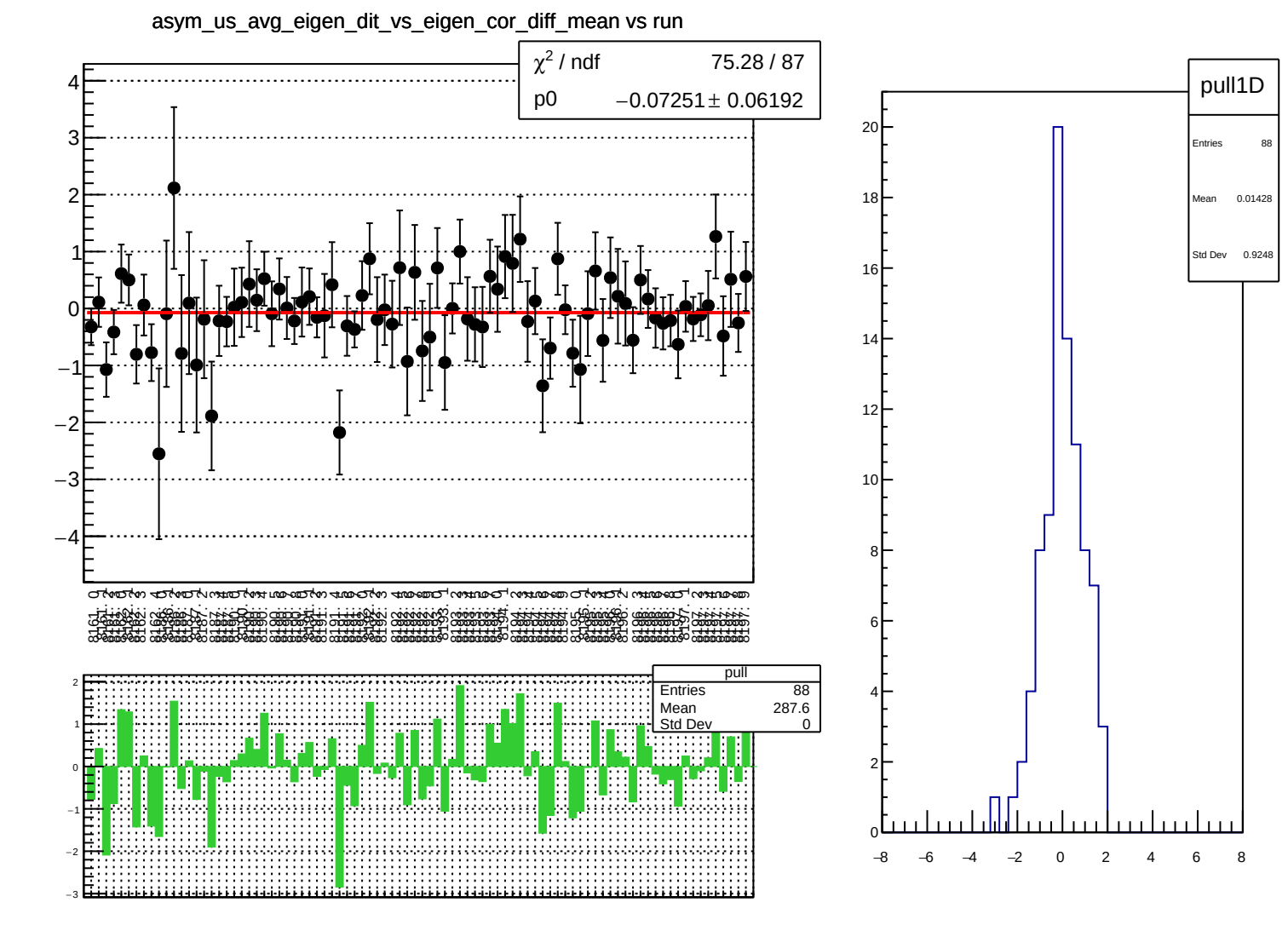

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.7 / 87
p0 −8.034e−06 ± 1.484e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 1240
Std Dev 0
2
1
0
−1
−2

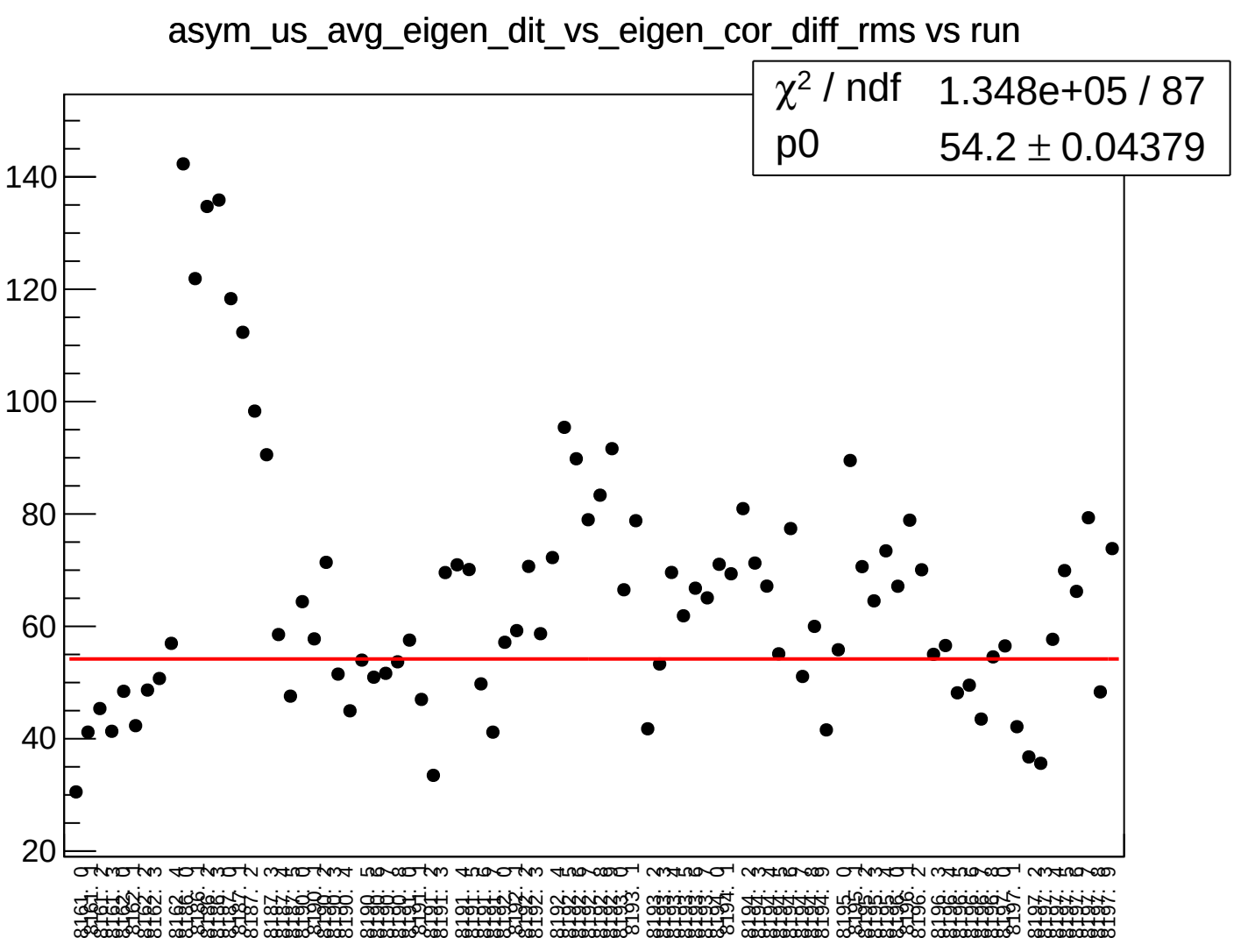

pull1D
Entries 88
Mean 0.005902
Std Dev 0.9926
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

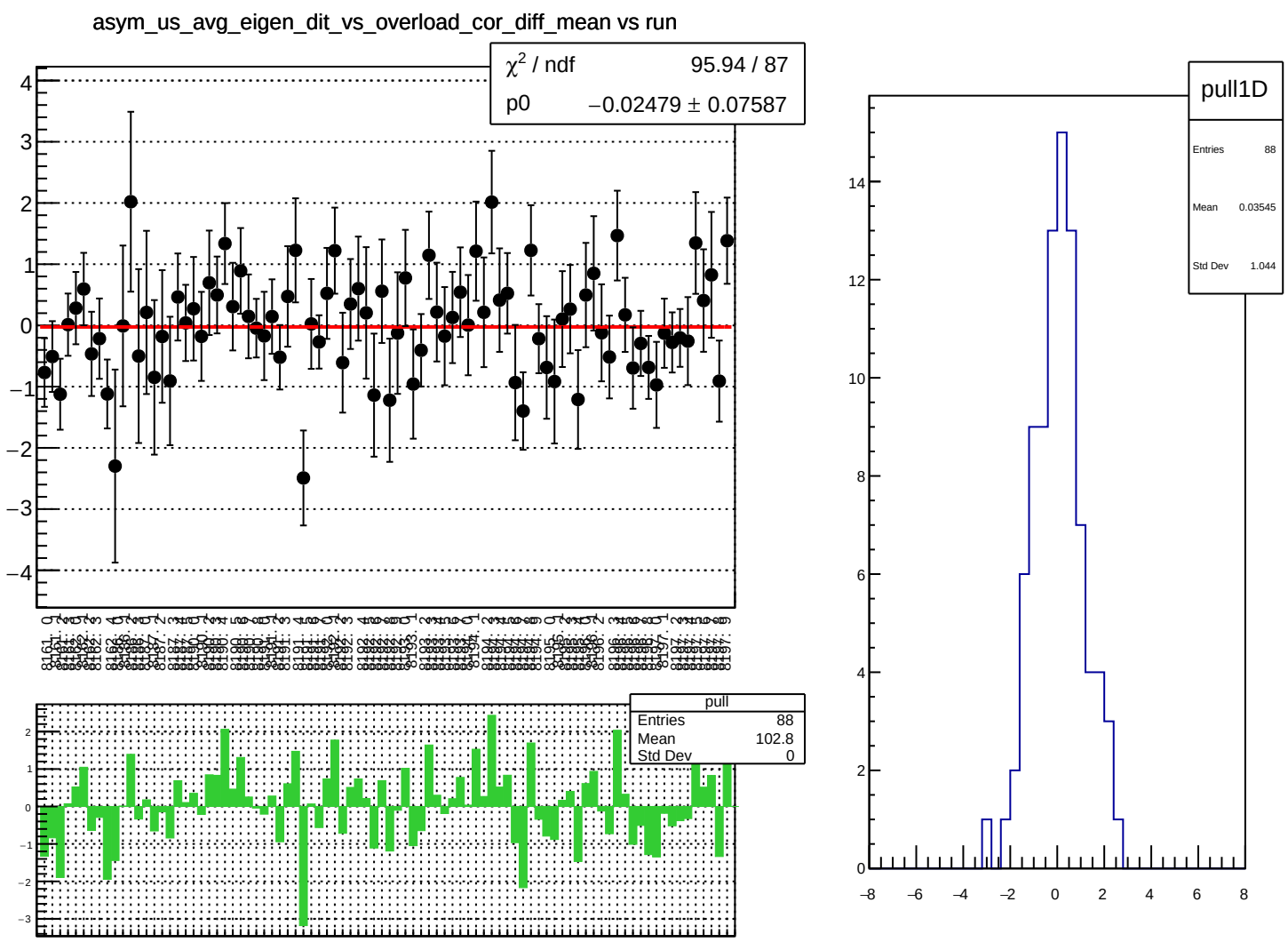

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.095e+04 / 87
p0 0.00135 ± 1.049e–06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

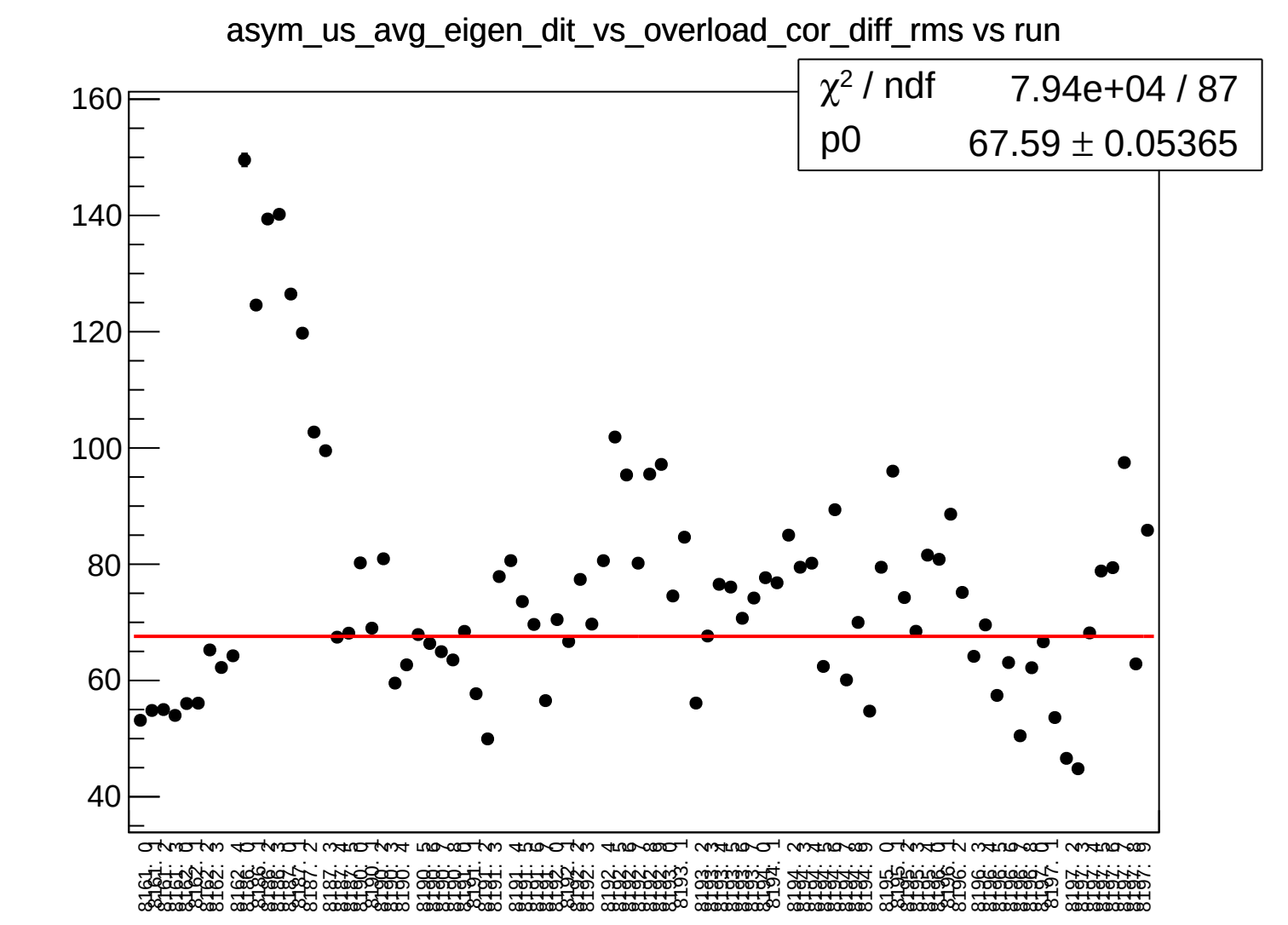

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.28 / 87
p0 −0.07251 ± 0.06192
pull
Entries 88
Mean 287.6
Std Dev 0
pull1D
Entries 88
Mean 0.01428
Std Dev 0.9248

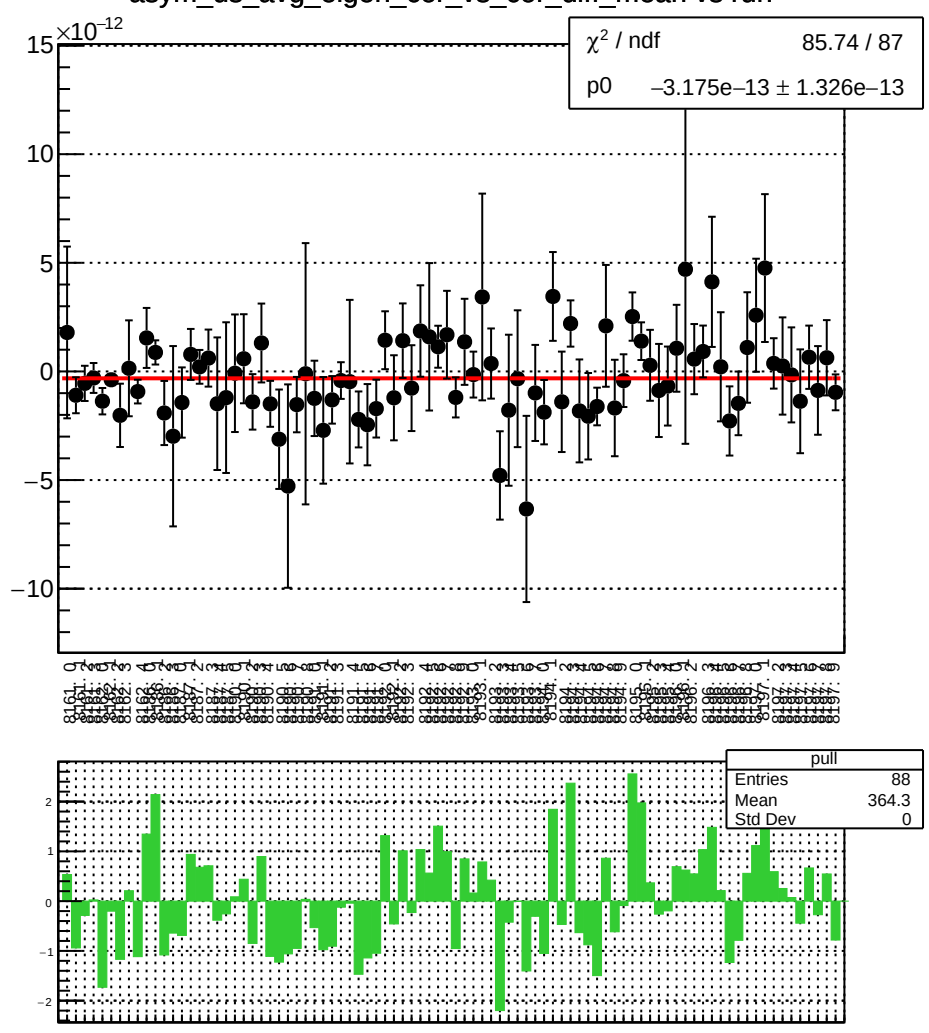

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.348e+05 / 87
p0 54.2 ± 0.04379
140
120
100
80
60
40
20

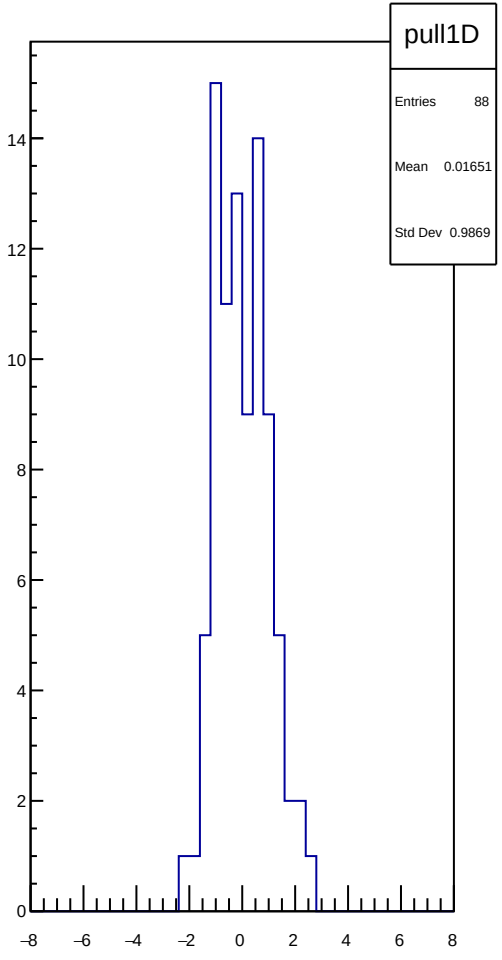

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.28 / 87
p0 −0.07251 ± 0.06192
pull
Entries 88
Mean 287.6
Std Dev 0
pull1D
Entries 88
Mean 0.01428
Std Dev 0.9248

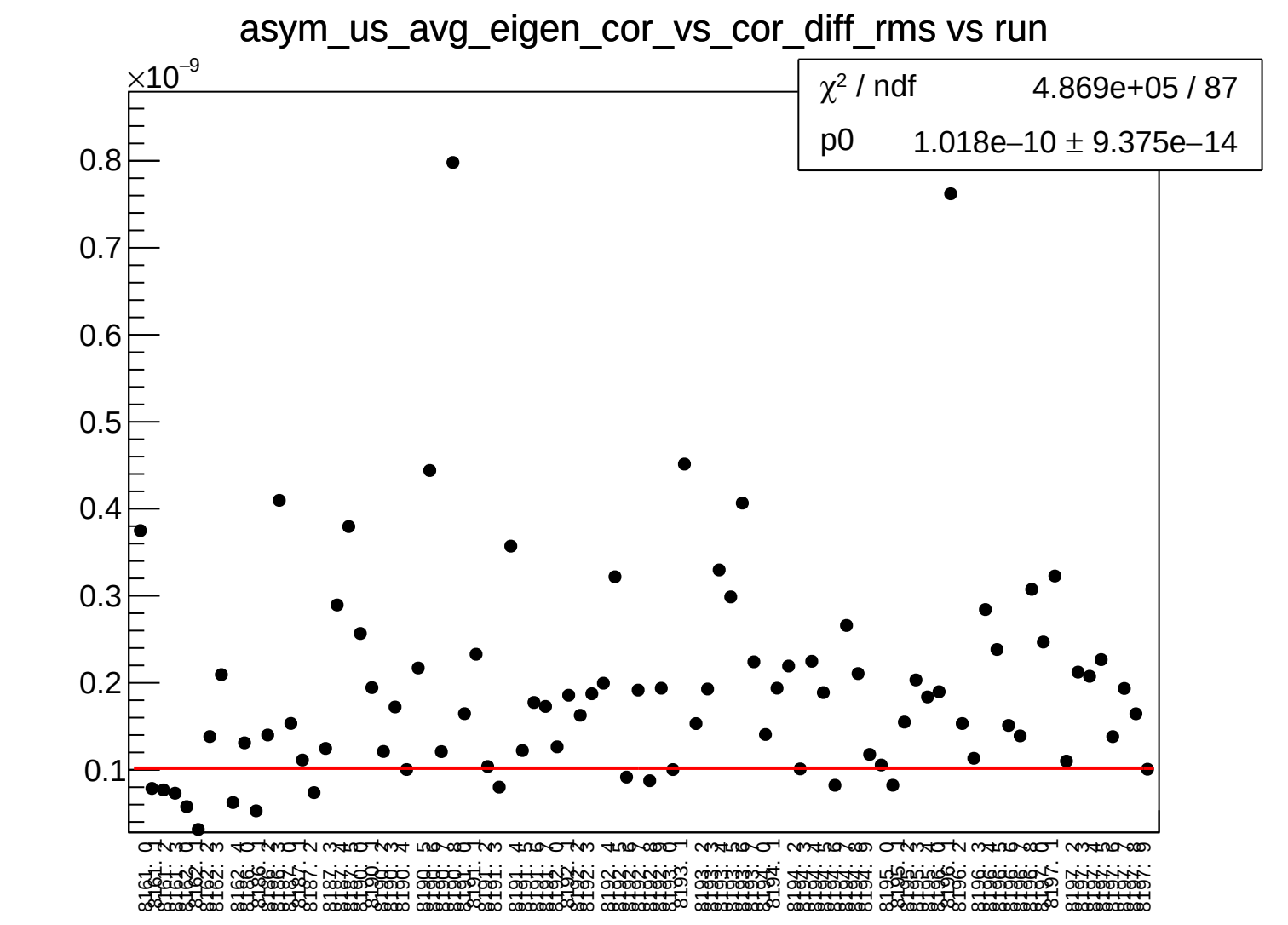

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.348e+05 / 87
p0 54.2 ± 0.04379
140
120
100
80
60
40
20

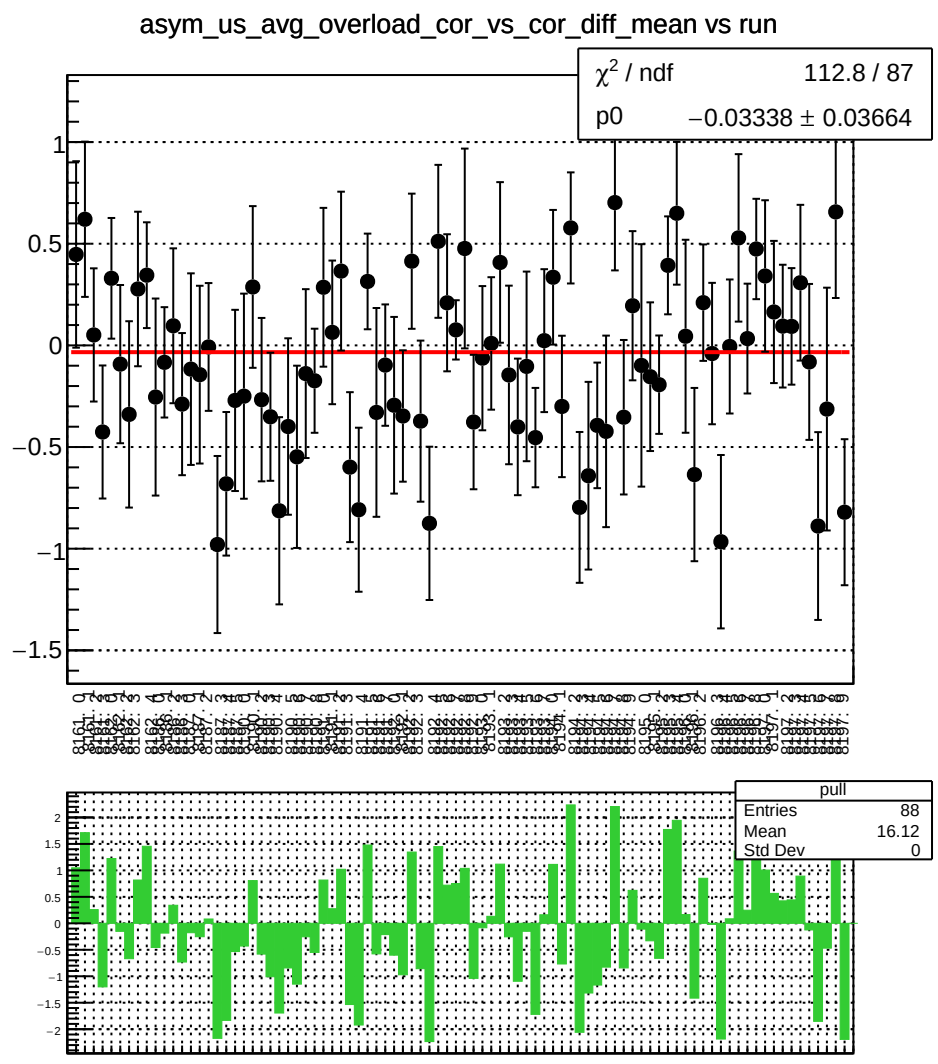

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.94 / 87
p0 −0.02479 ± 0.07587
pull
Entries 88
Mean 102.8
Std Dev 0
pull1D
Entries 88
Mean 0.03545
Std Dev 1.044

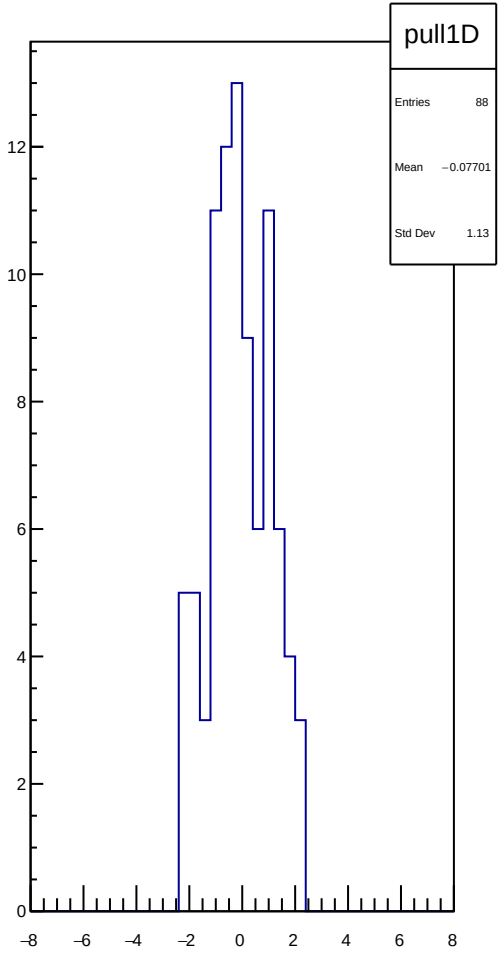

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.94e+04 / 87
p0 67.59 ± 0.05365
160
140
120
100
80
60
40

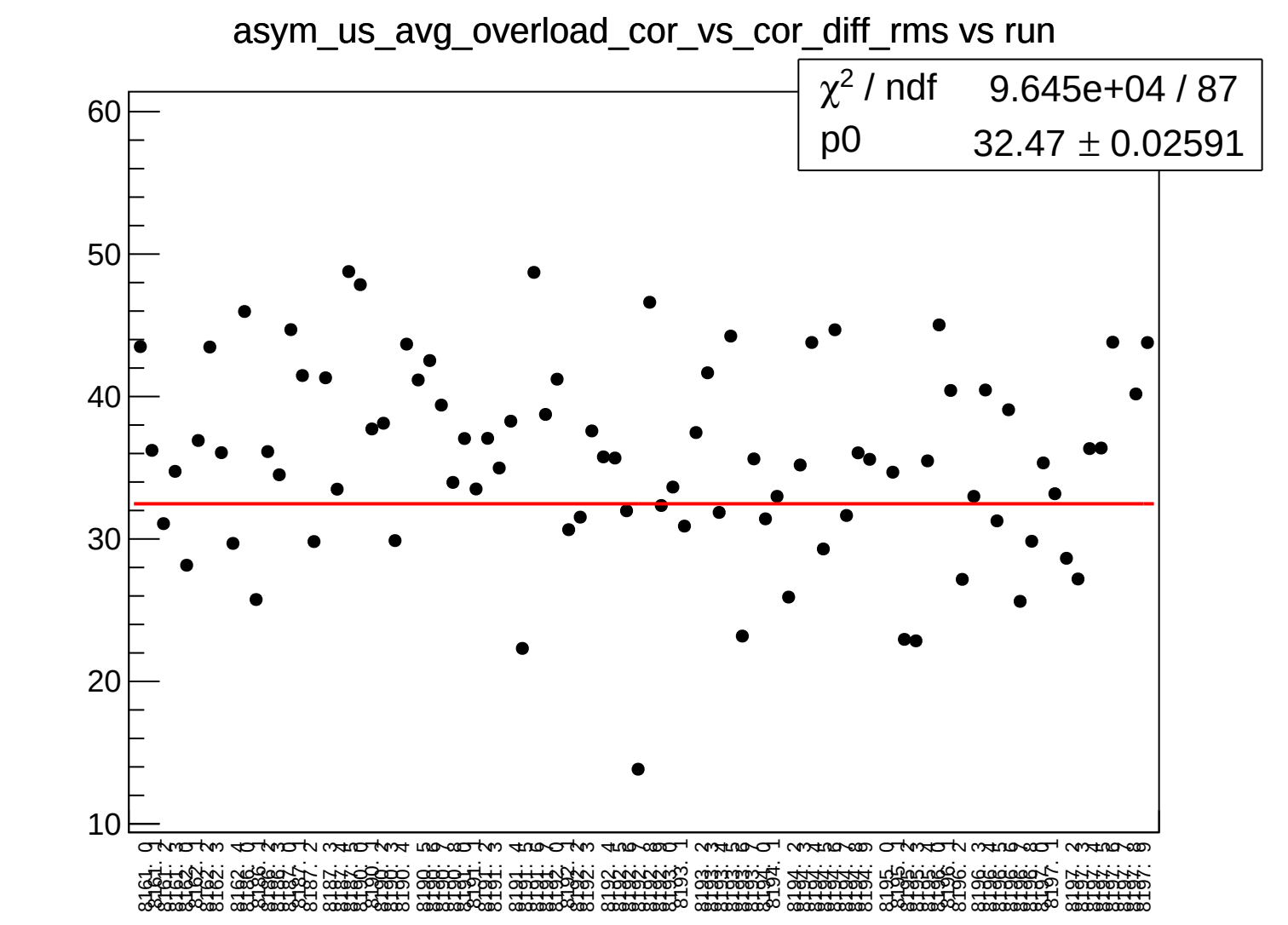

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.74 / 87
p0 −3.175e−13 ± 1.326e−13
pull
Entries 88
Mean 364.3
Std Dev 0

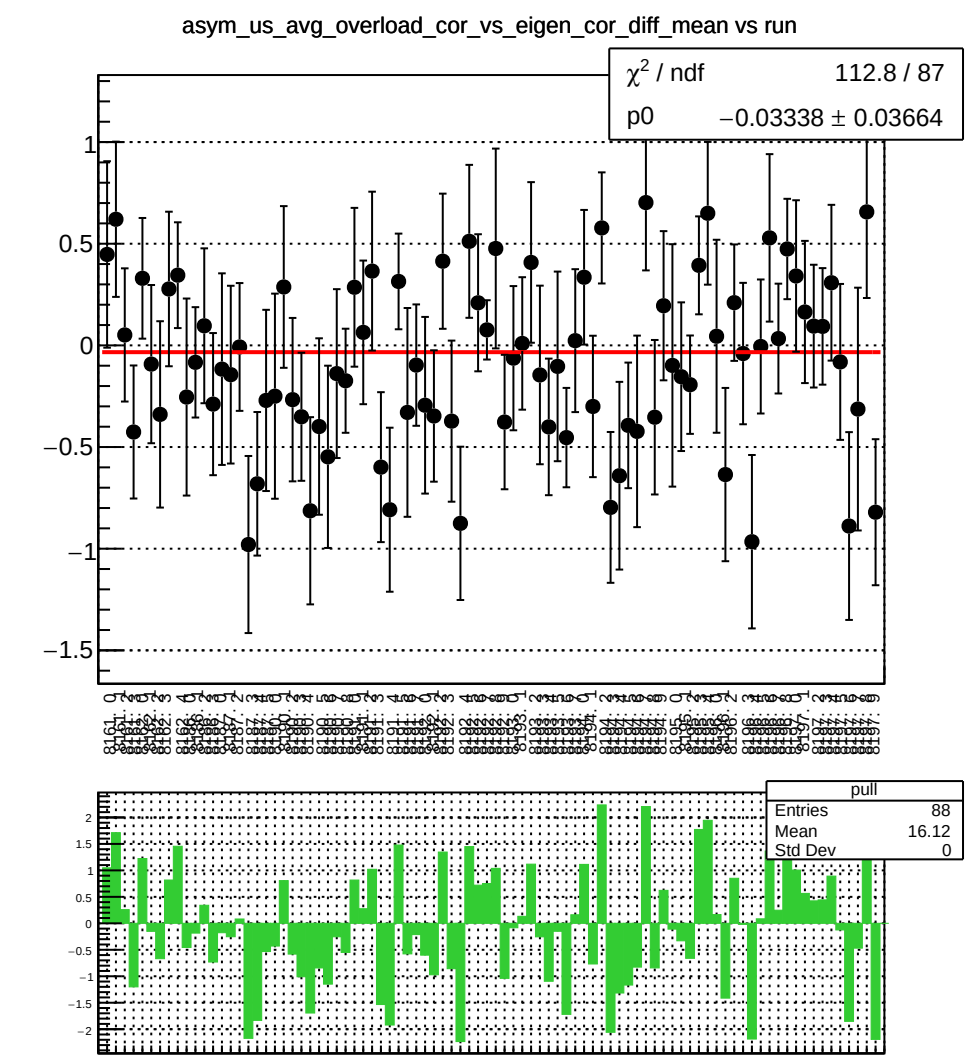

pull1D
Entries 88
Mean 0.01651
Std Dev 0.9869

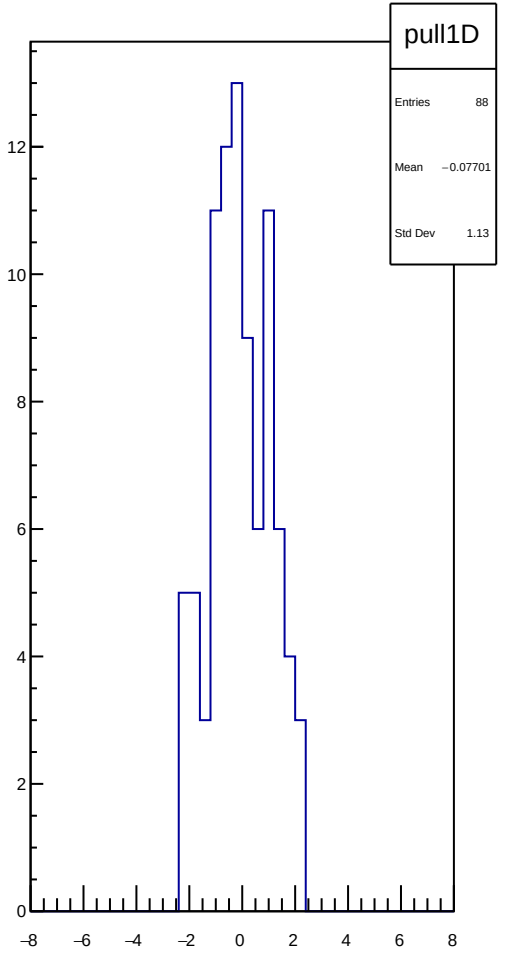

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.869e+05 / 87
p0 1.018e−10 ± 9.375e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

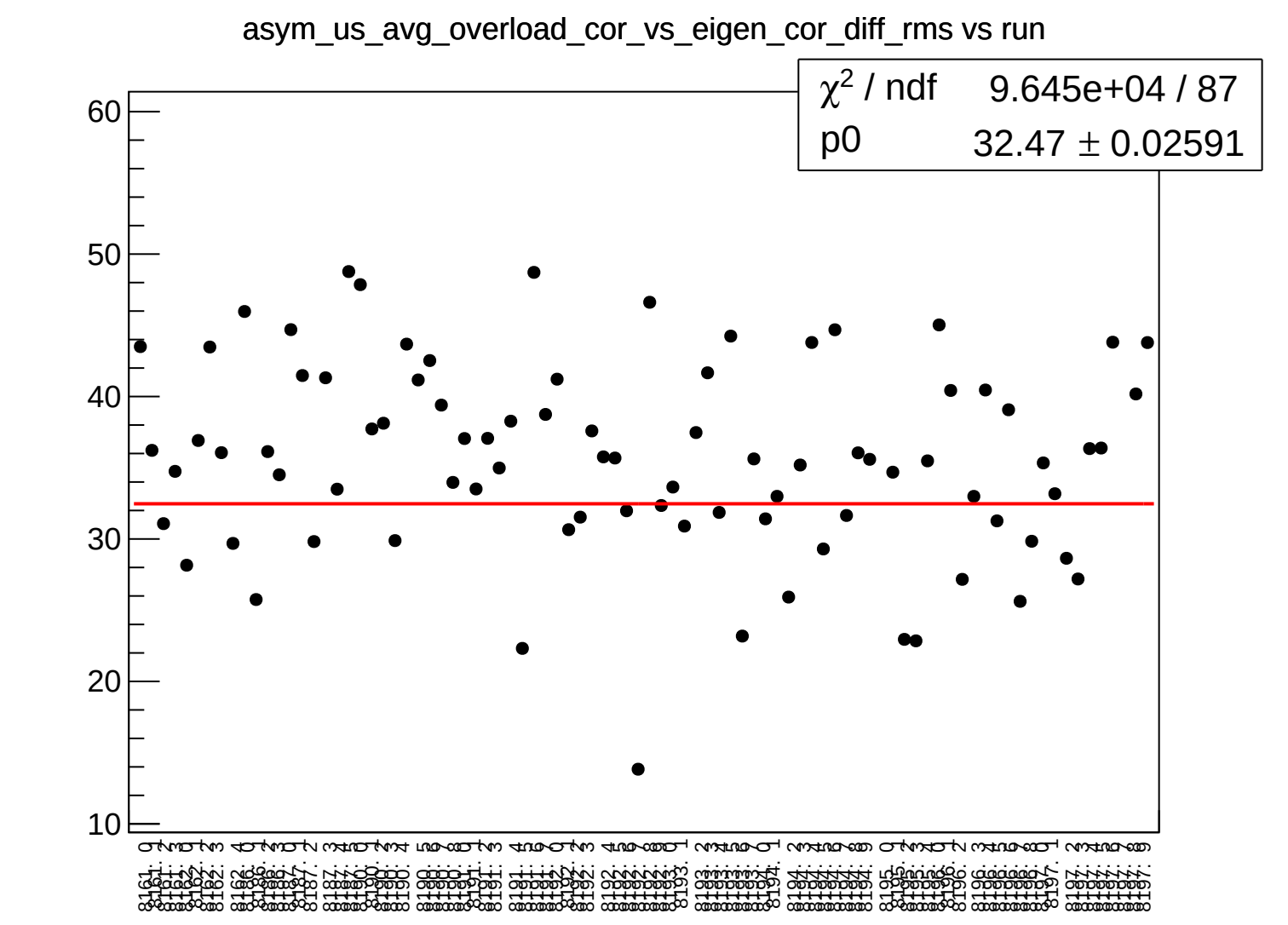

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 112.8 / 87
p0 −0.03338 ± 0.03664
pull
Entries 88
Mean 16.12
Std Dev 0

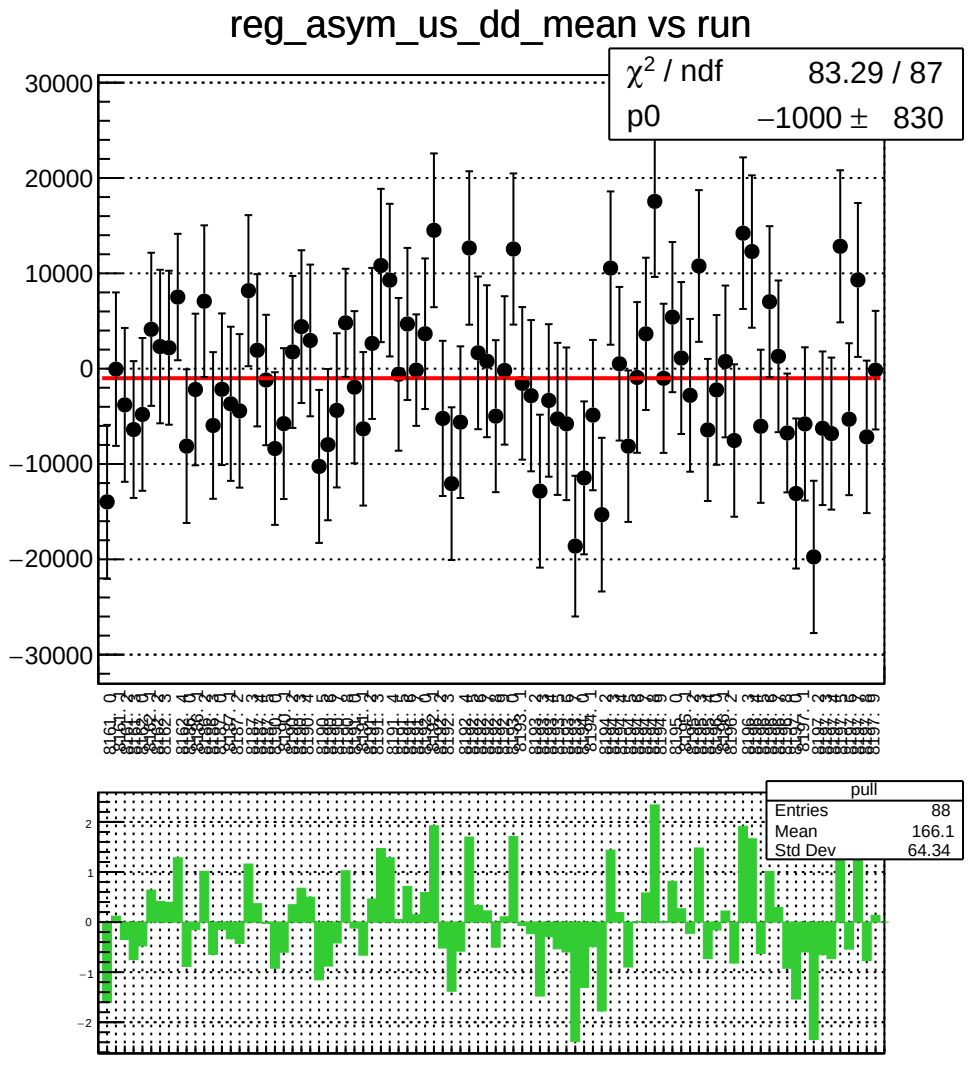

pull1D
Entries 88
Mean −0.07701
Std Dev 1.13

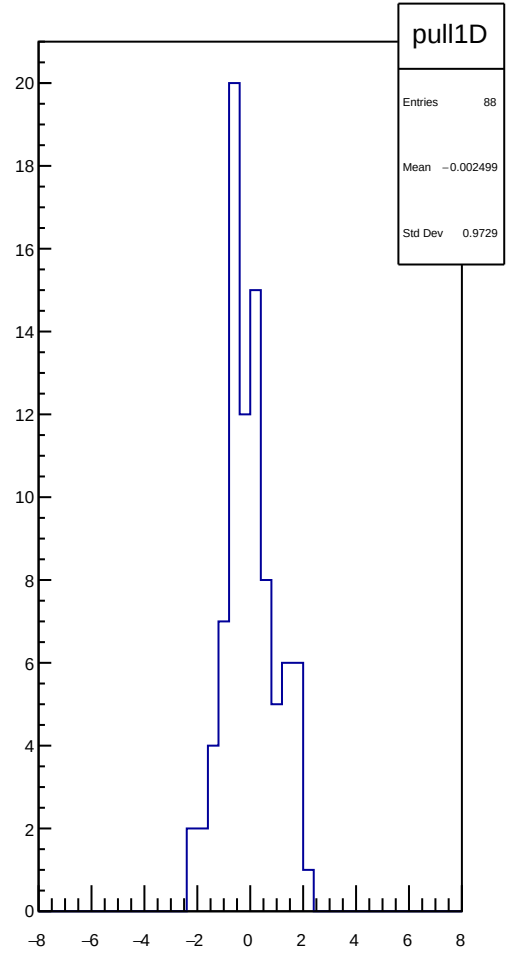

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9.645e+04 / 87
p0 32.47 ± 0.02591
60
50
40
30
20
10

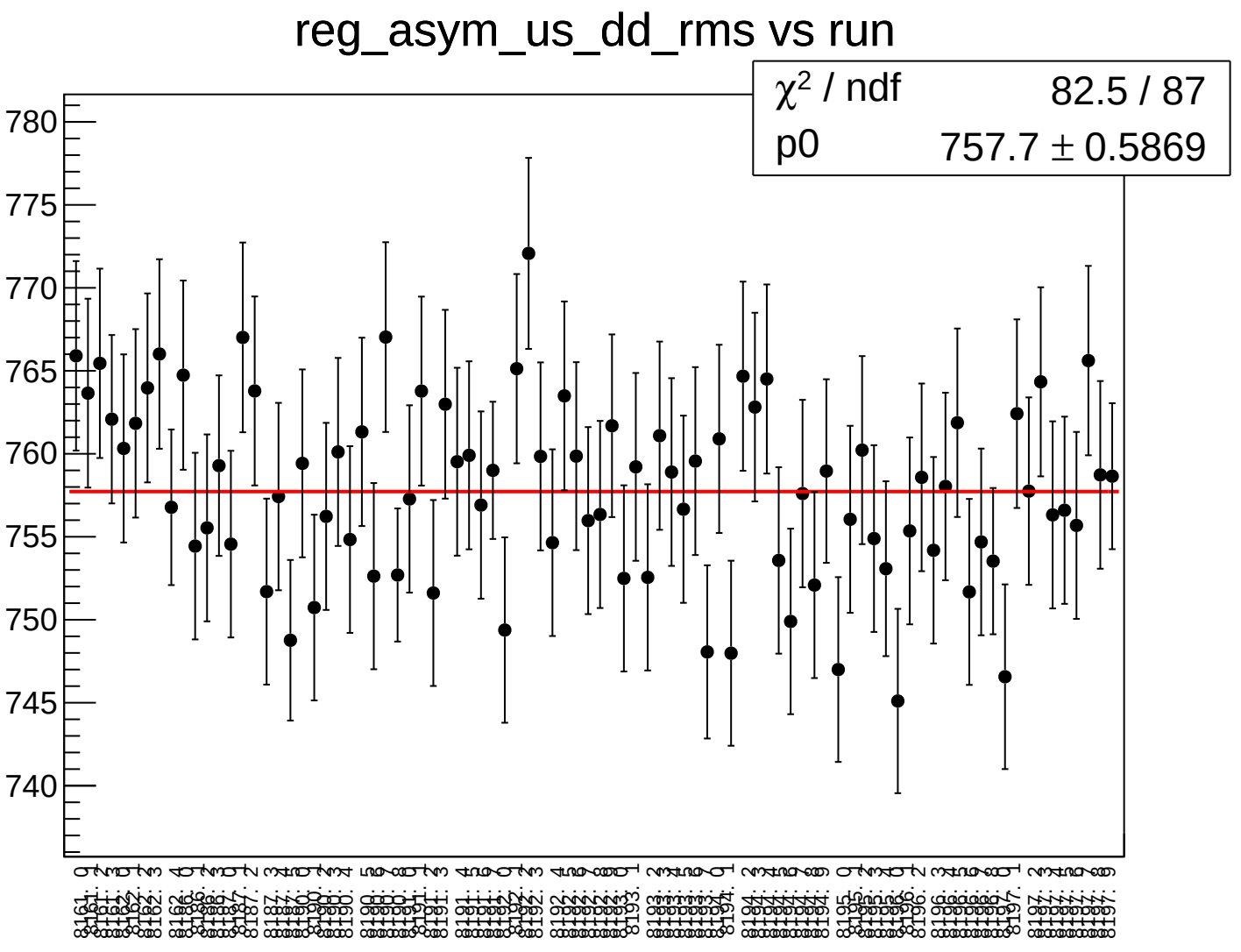

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.8 / 87
p0 −0.03338 ± 0.03664
pull
Entries 88
Mean 16.12
Std Dev 0

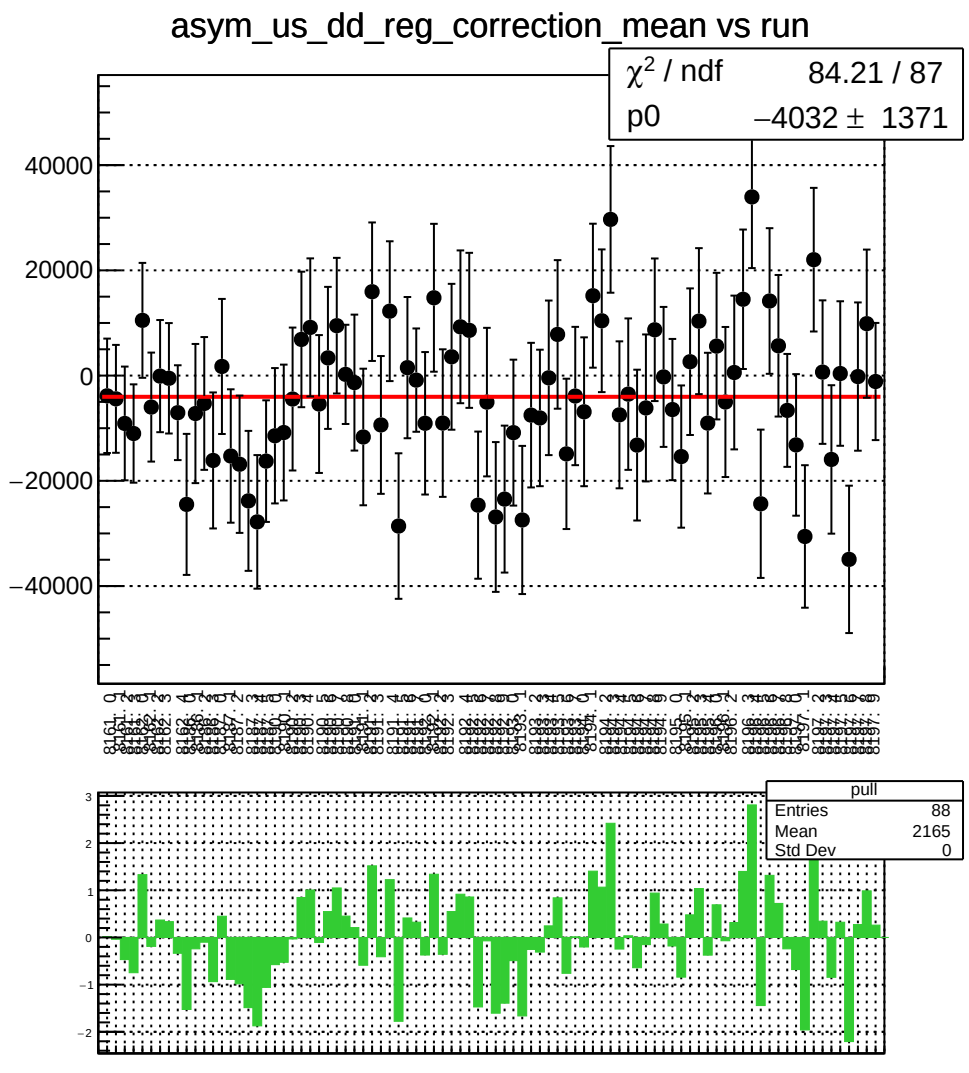

pull1D
Entries 88
Mean −0.07701
Std Dev 1.13

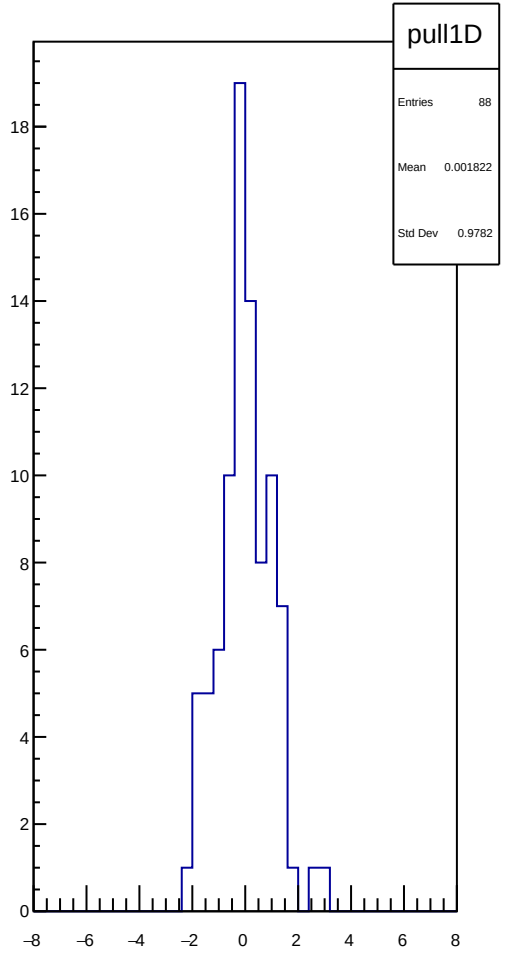

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.645e+04 / 87
p0 32.47 ± 0.02591
60
50
40
30
20
10

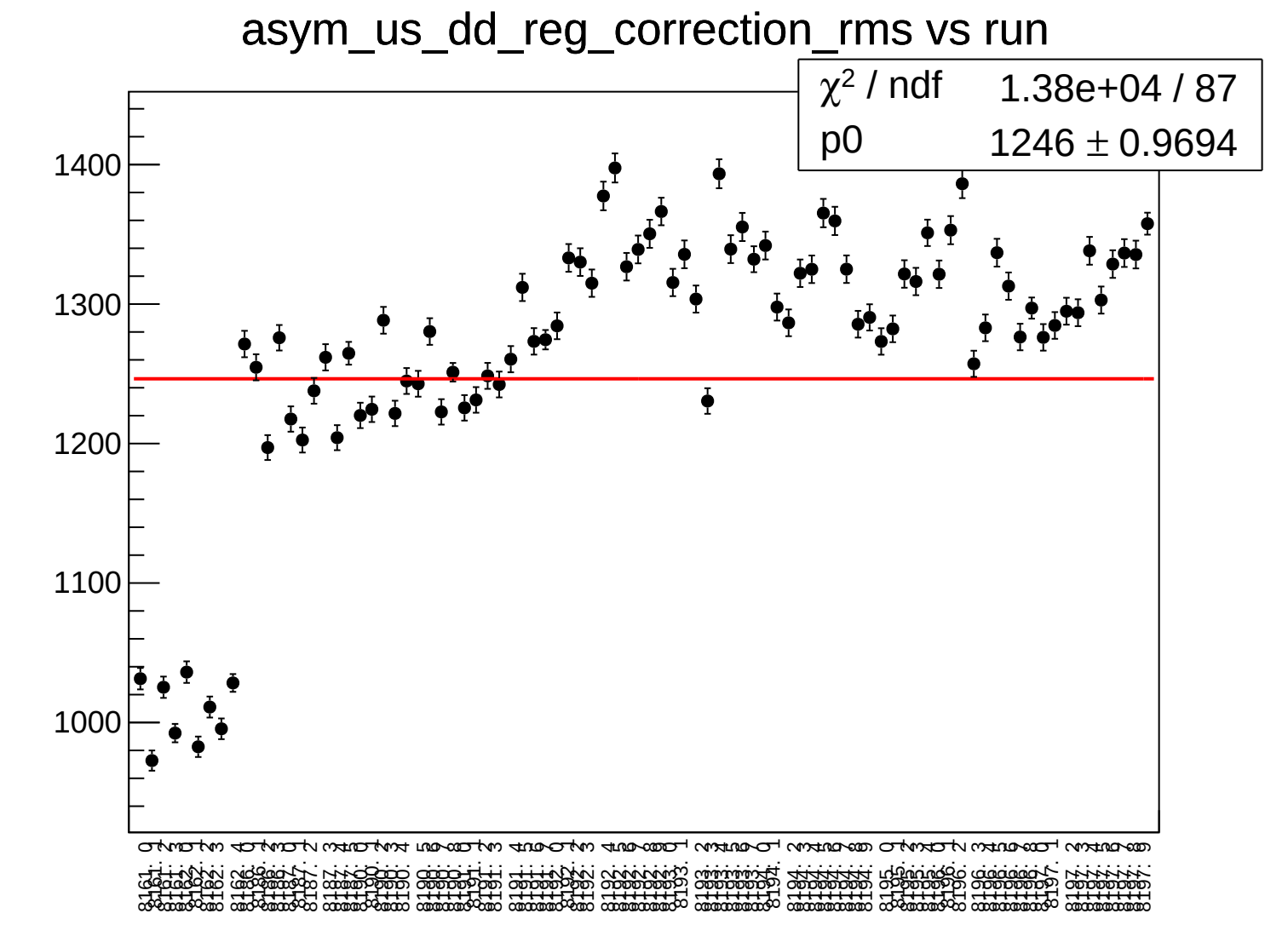

reg_asym_us_dd_mean vs run
χ² / ndf 83.29 / 87
p0 −1000 ± 830
pull
Entries 88
Mean 166.1
Std Dev 64.34

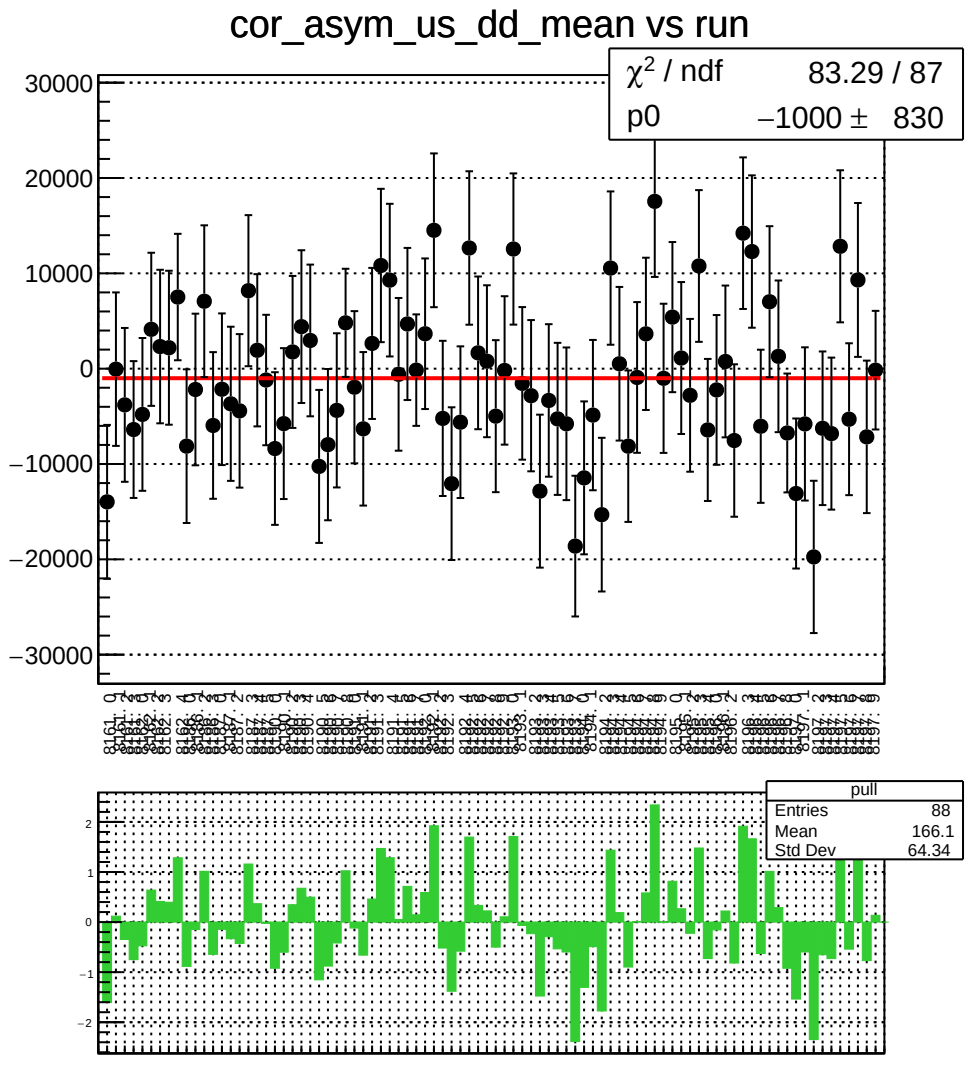

pull1D
Entries 88
Mean −0.002499
Std Dev 0.9729

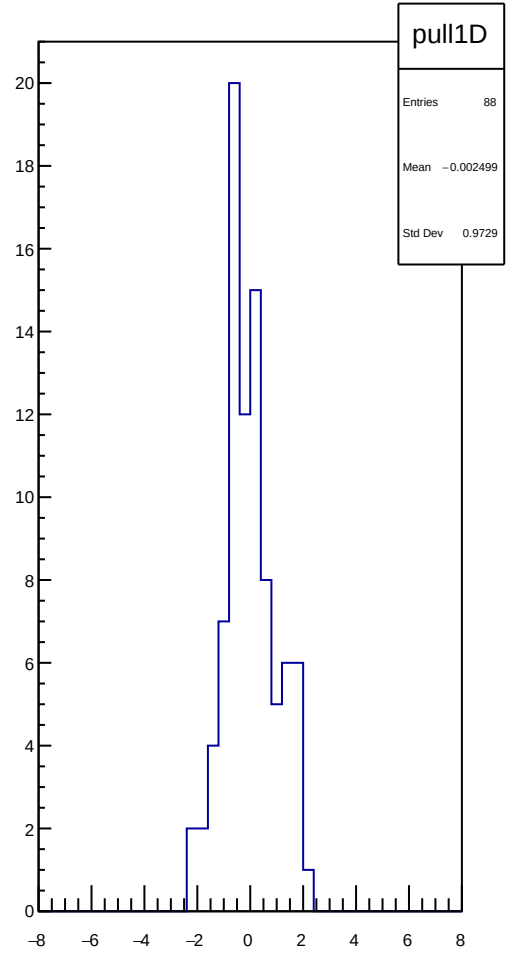

reg_asym_us_dd_rms vs run
χ² / ndf 82.5 / 87
p0 757.7 ± 0.5869
780
775
770
765
760
755
750
745
740

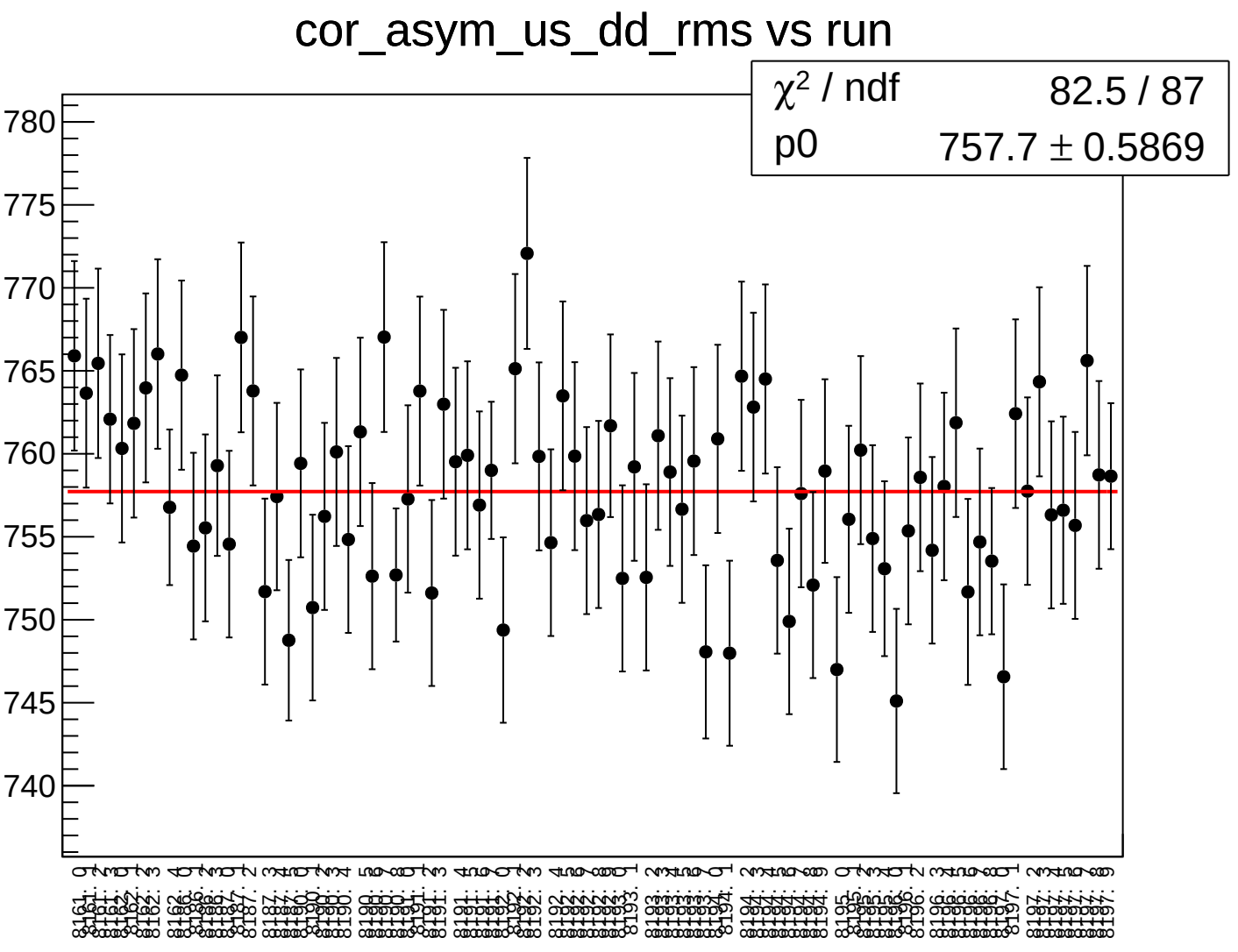

asym_us_dd_reg_correction_mean vs run
χ² / ndf 84.21 / 87
p0 −4032 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 2165
Std Dev 0
3
2
1
0
−1
−2

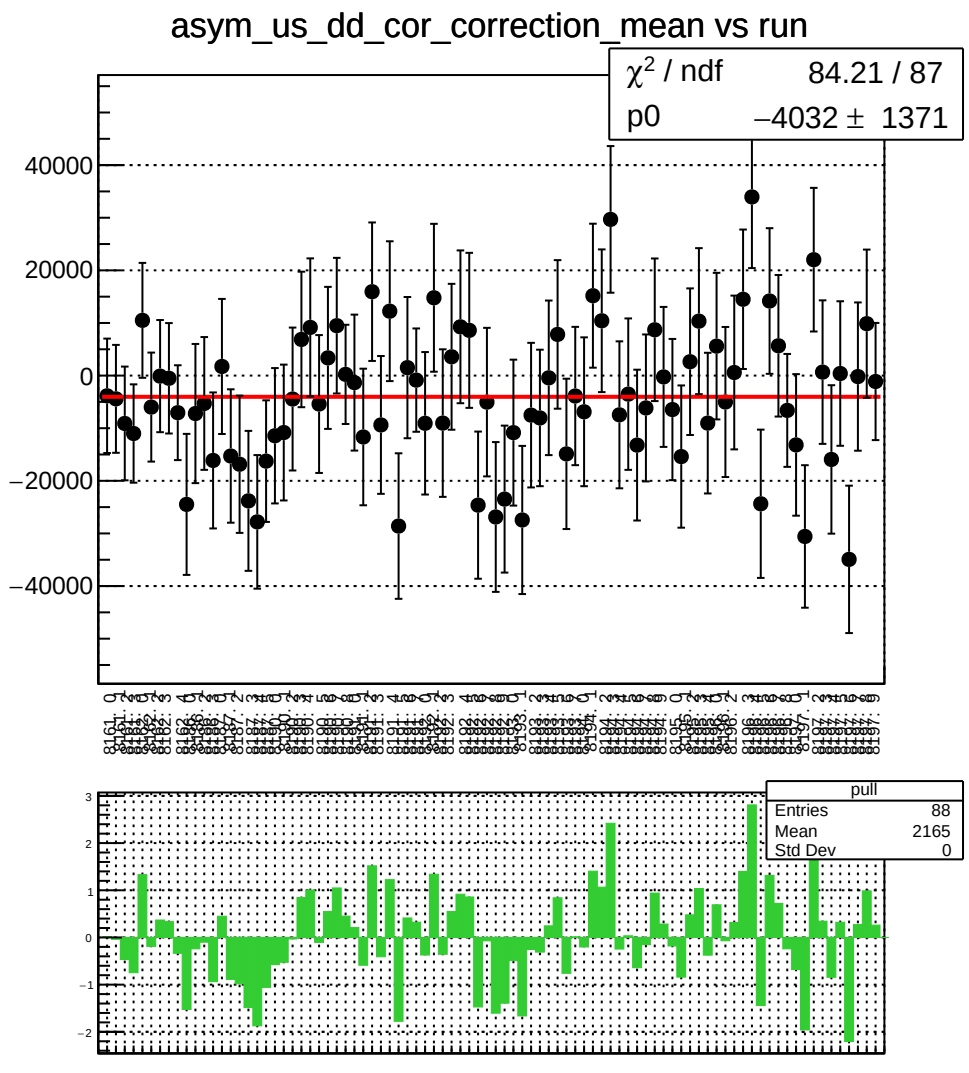

pull1D
Entries 88
Mean 0.001822
Std Dev 0.9782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

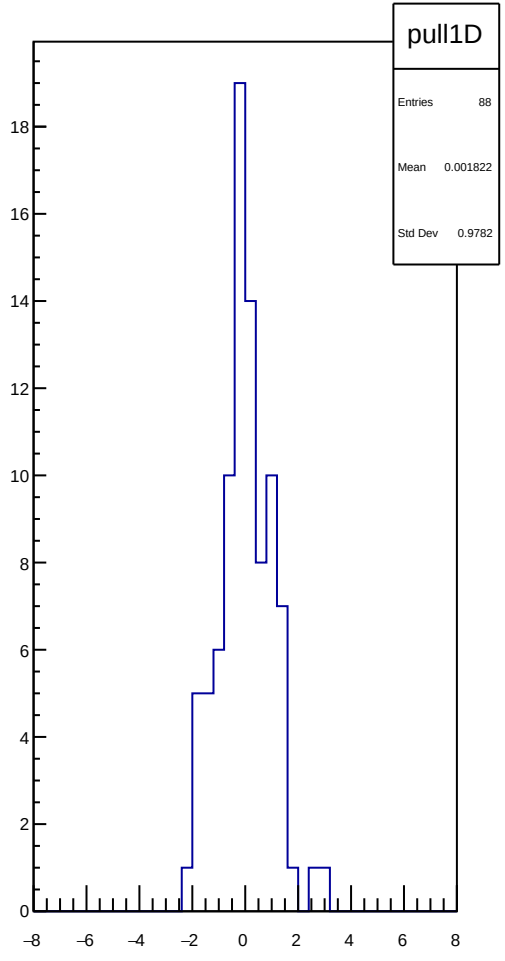

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.38e+04 / 87
p0 1246 ± 0.9694
1400
1300
1200
1100
1000

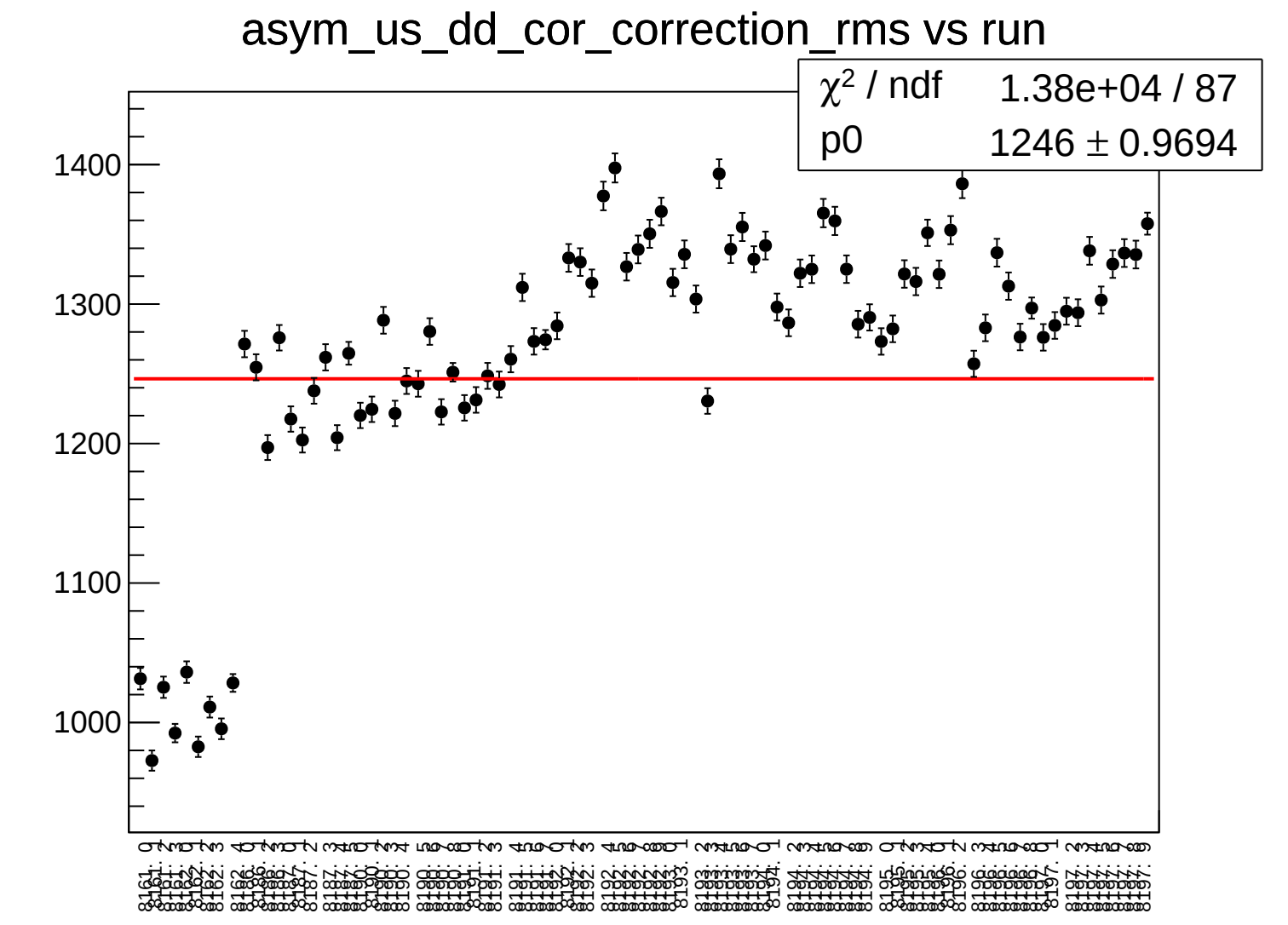

cor_asym_us_dd_mean vs run
χ² / ndf 83.29 / 87
p0 −1000 ± 830
pull
Entries 88
Mean 166.1
Std Dev 64.34

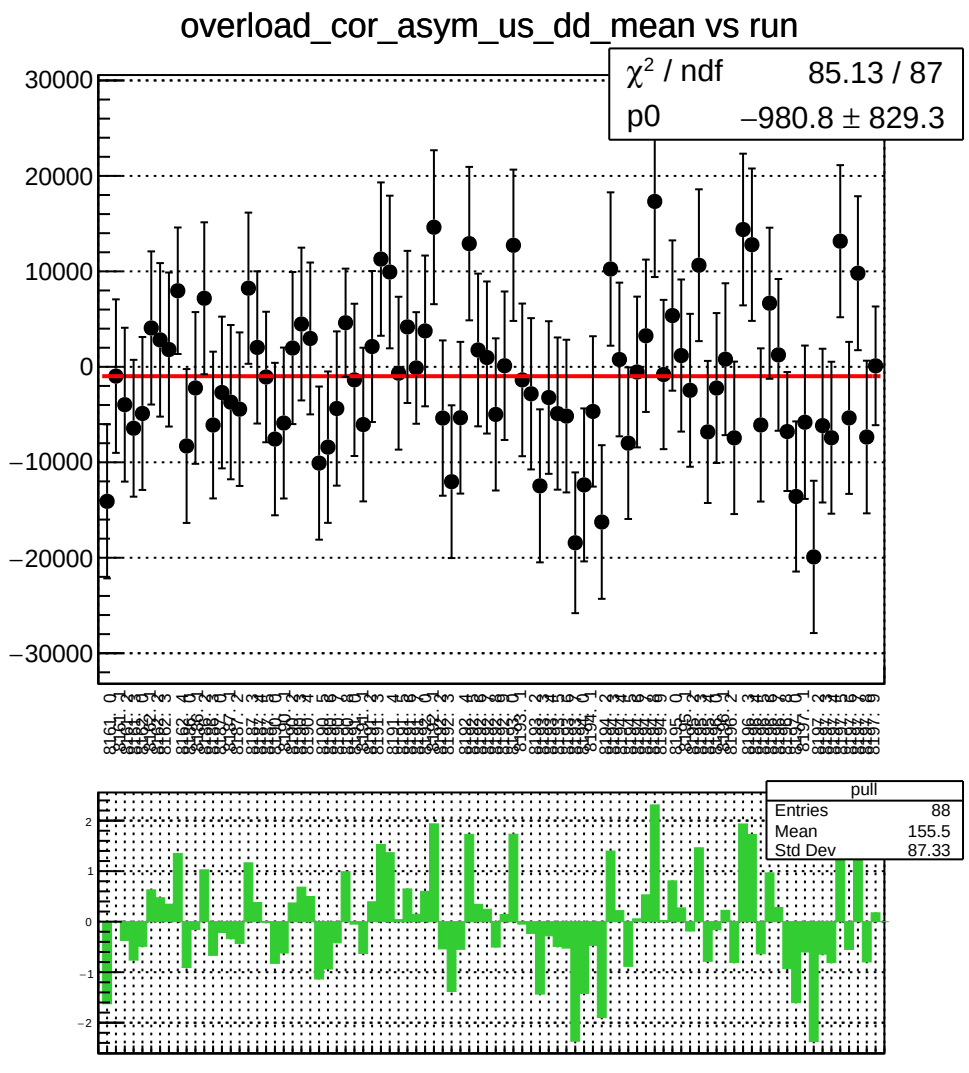

pull1D
Entries 88
Mean −0.002499
Std Dev 0.9729

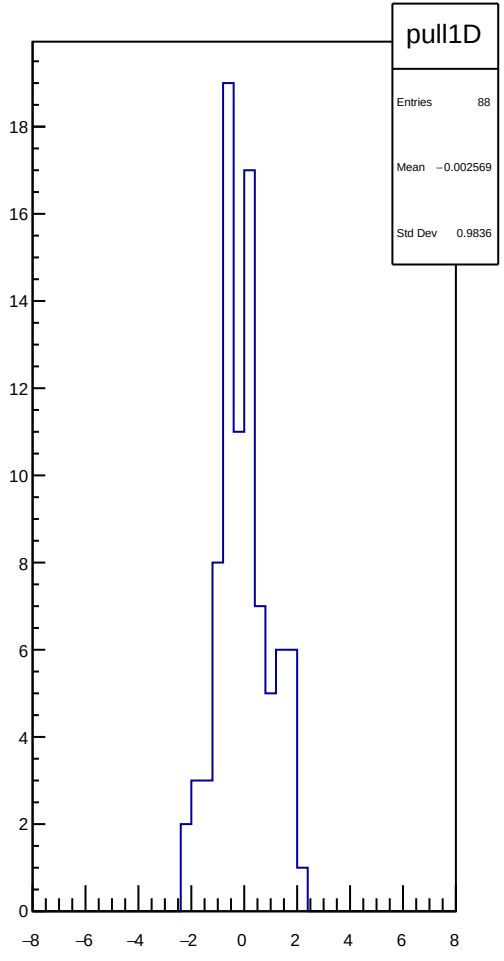

cor_asym_us_dd_rms vs run
χ² / ndf 82.5 / 87
p0 757.7 ± 0.5869
780
775
770
765
760
755
750
745
740

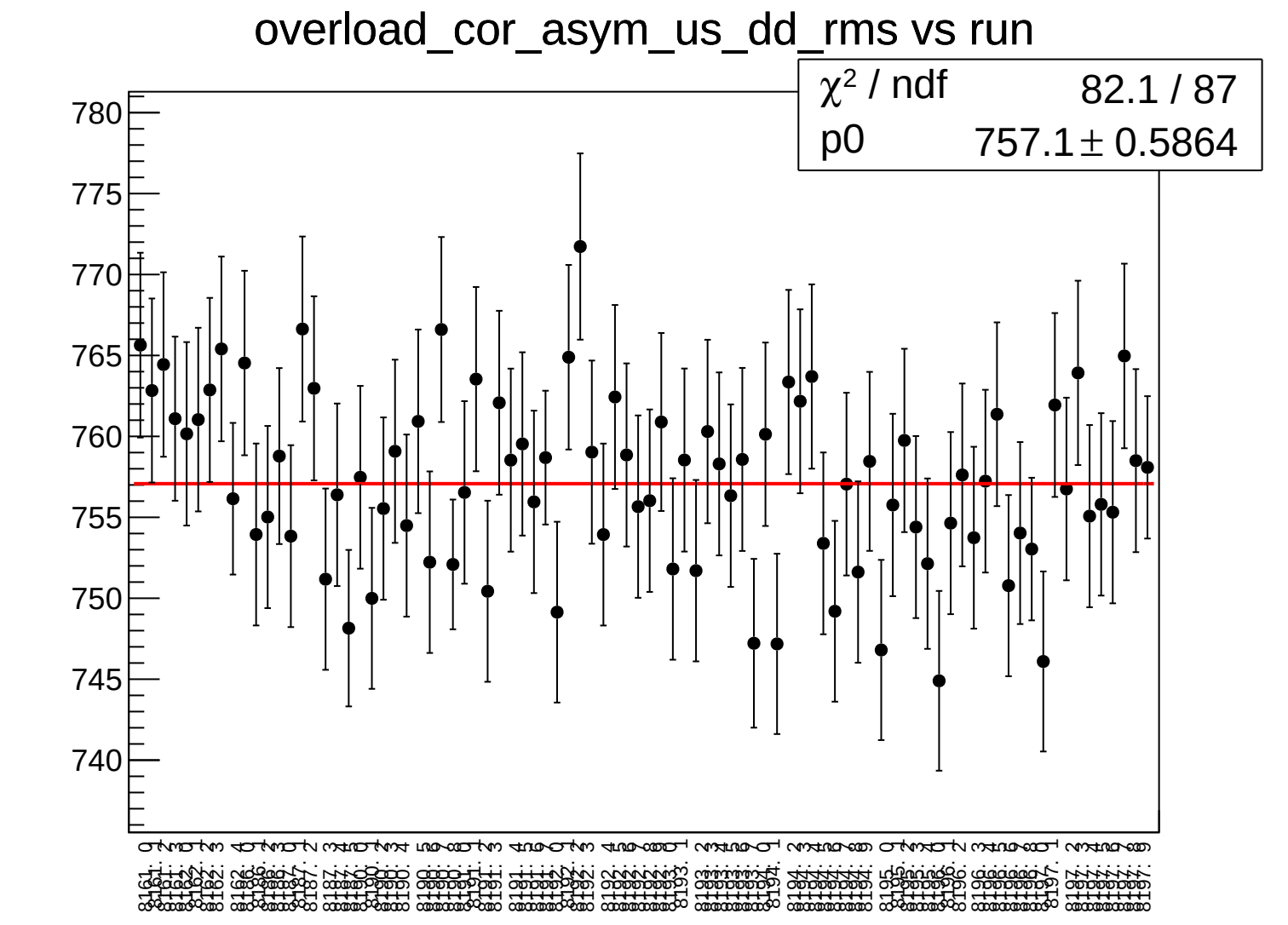

asym_us_dd_cor_correction_mean vs run
χ² / ndf 84.21 / 87
p0 −4032 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 2165
Std Dev 0
3
2
1
0
−1
−2

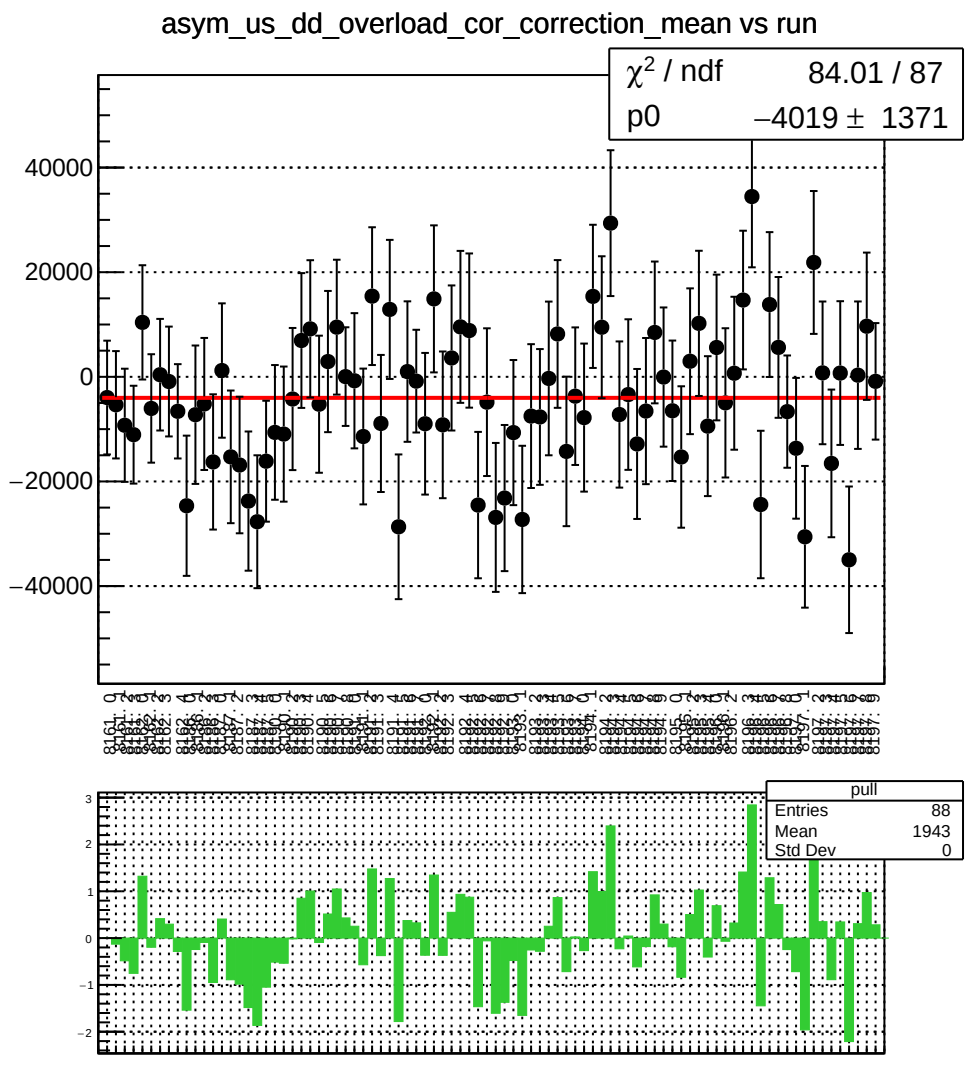

pull1D
Entries 88
Mean 0.001822
Std Dev 0.9782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

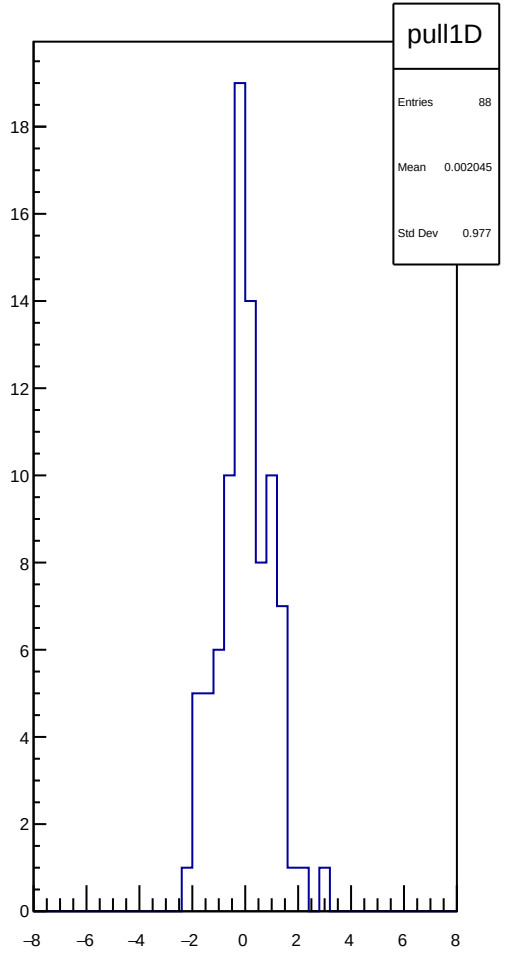

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.38e+04 / 87
p0 1246 ± 0.9694
1400
1300
1200
1100
1000

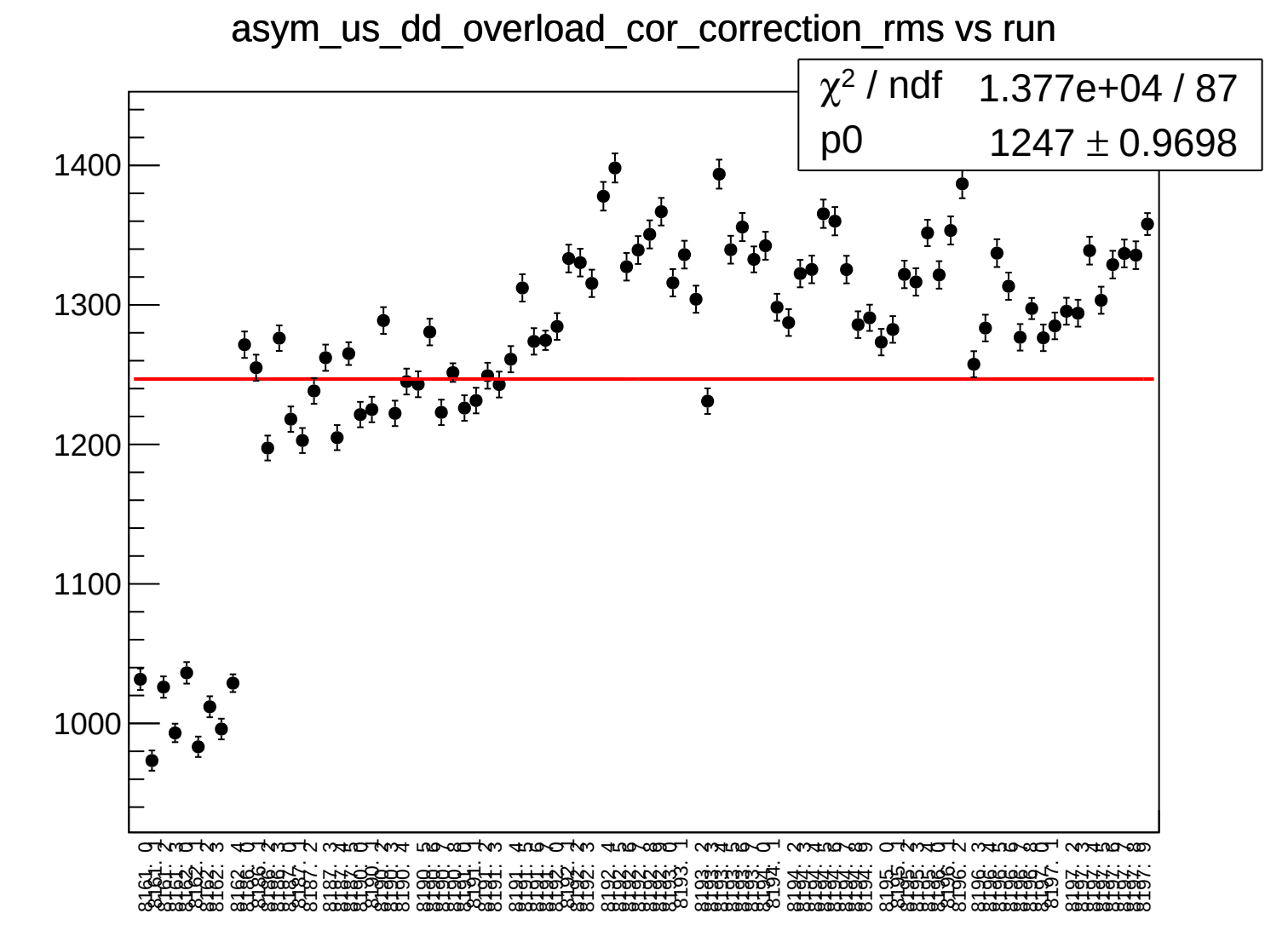

overload_cor_asym_us_dd_mean vs run
χ² / ndf 85.13 / 87
p0 −980.8 ± 829.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 155.5
Std Dev 87.33
2
1
0
−1
−2

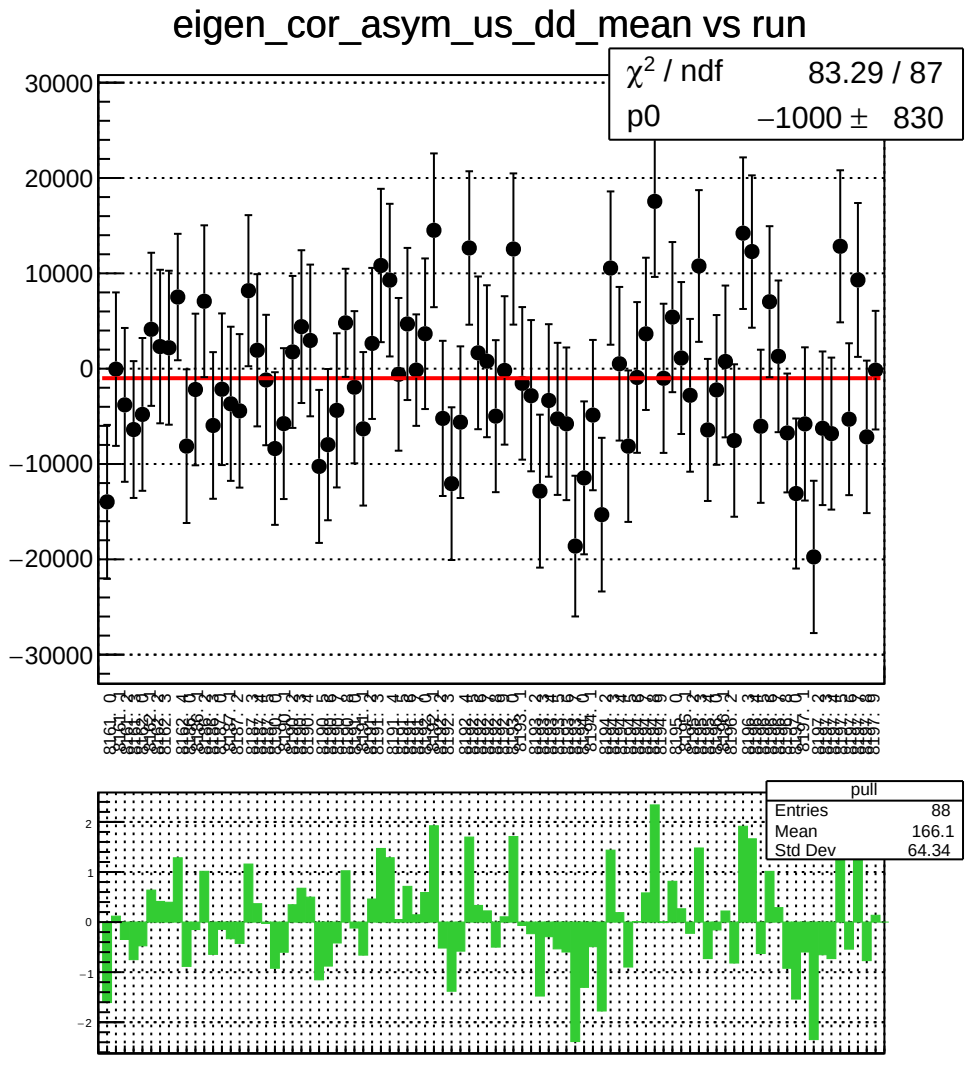

pull1D
Entries 88
Mean −0.002569
Std Dev 0.9836
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

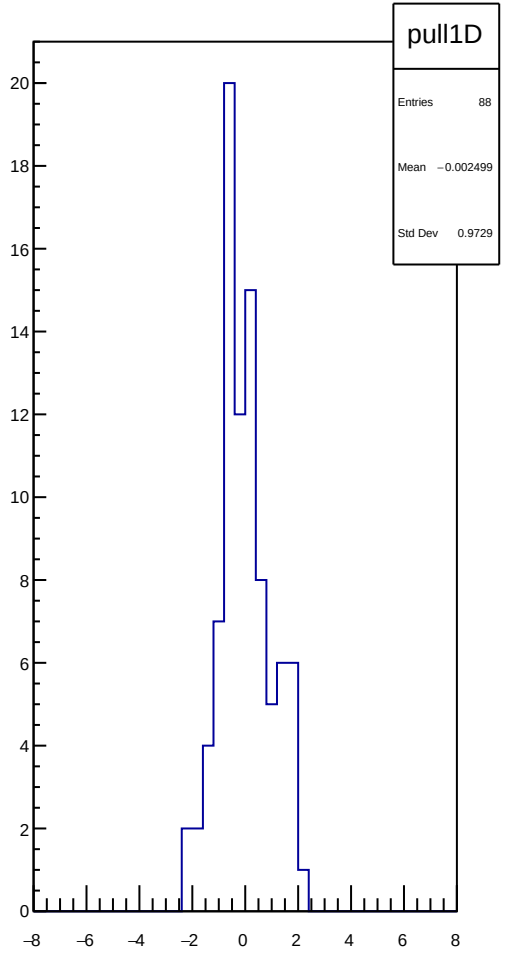

overload_cor_asym_us_dd_rms vs run
χ² / ndf 82.1 / 87
p0 757.1 ± 0.5864
780
775
770
765
760
755
750
745
740

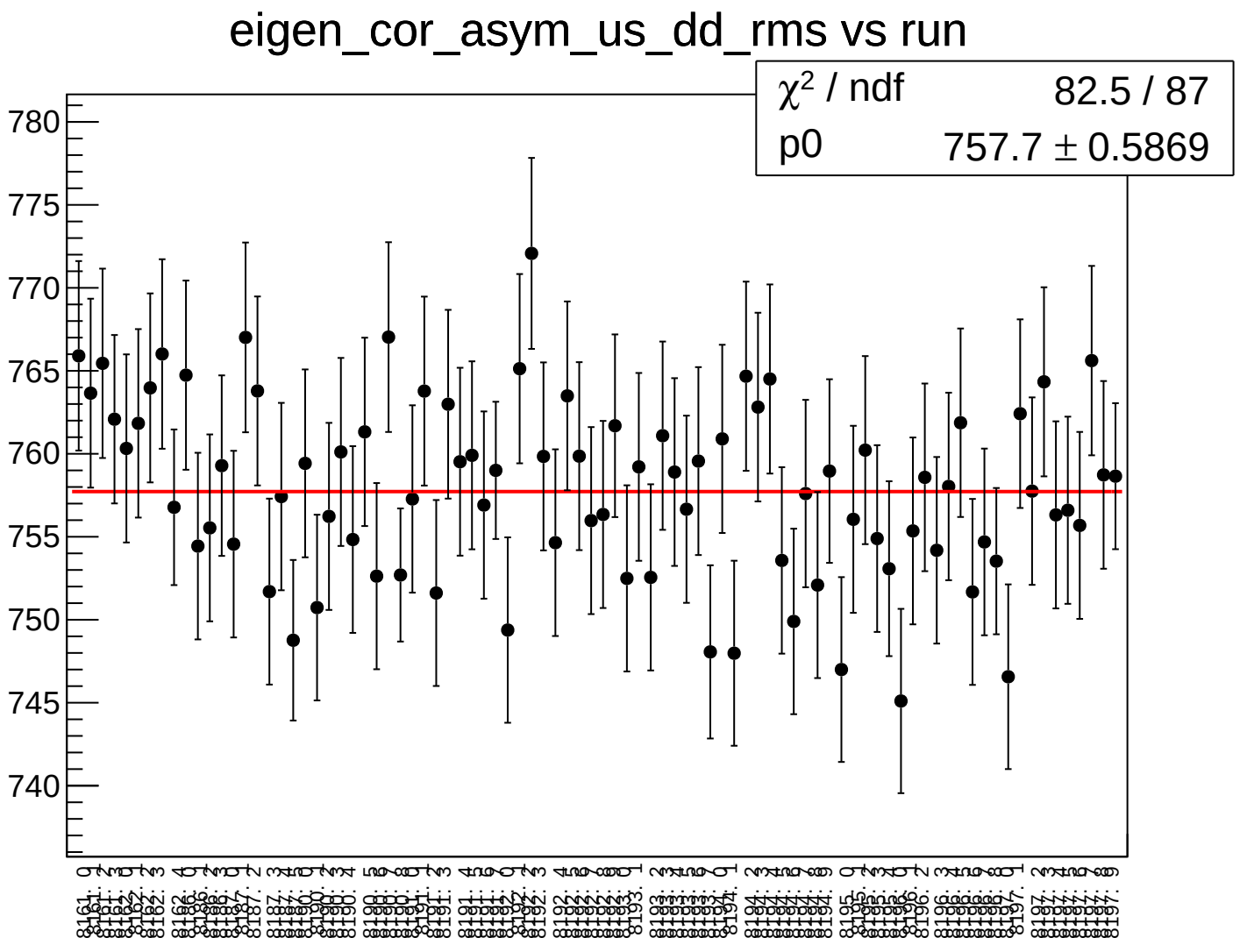

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 84.01 / 87
p0 −4019 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1943
Std Dev 0
3
2
1
0
−1
−2

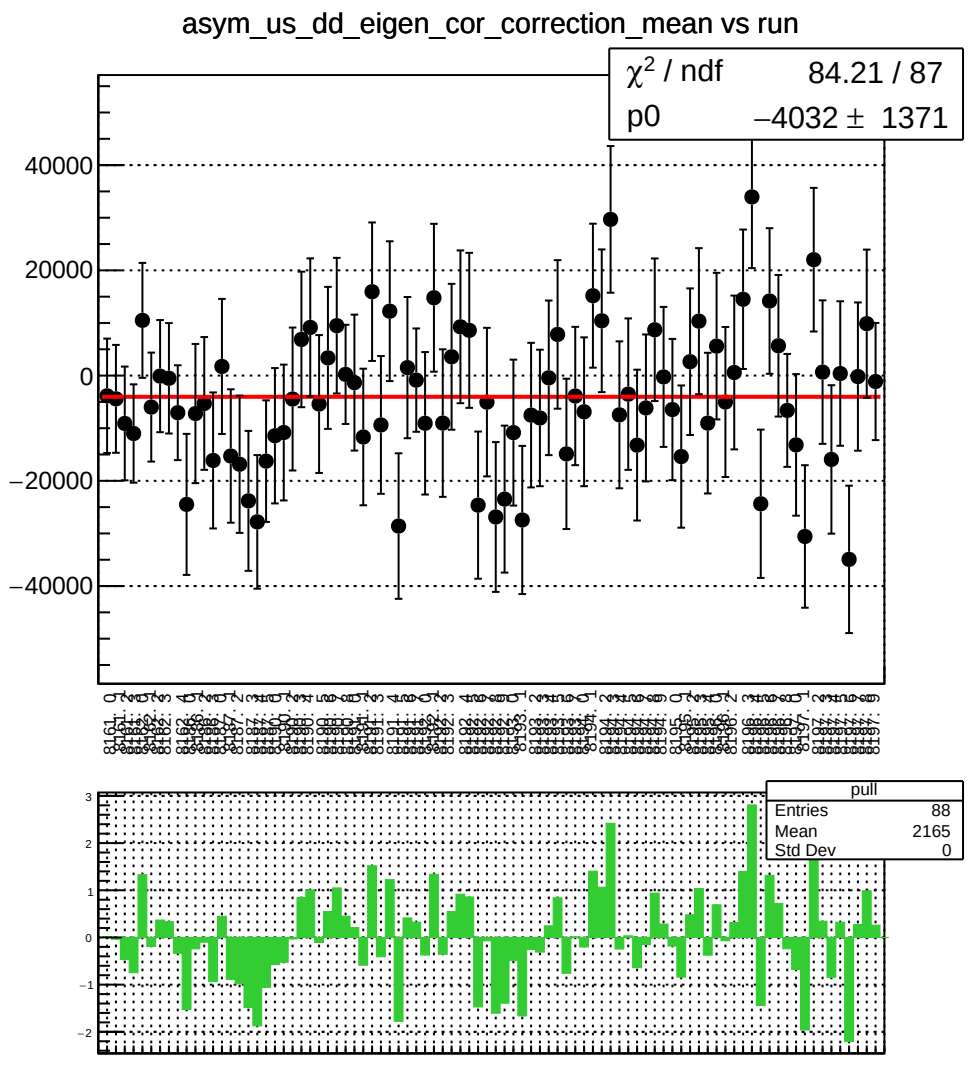

pull1D
Entries 88
Mean 0.002045
Std Dev 0.977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

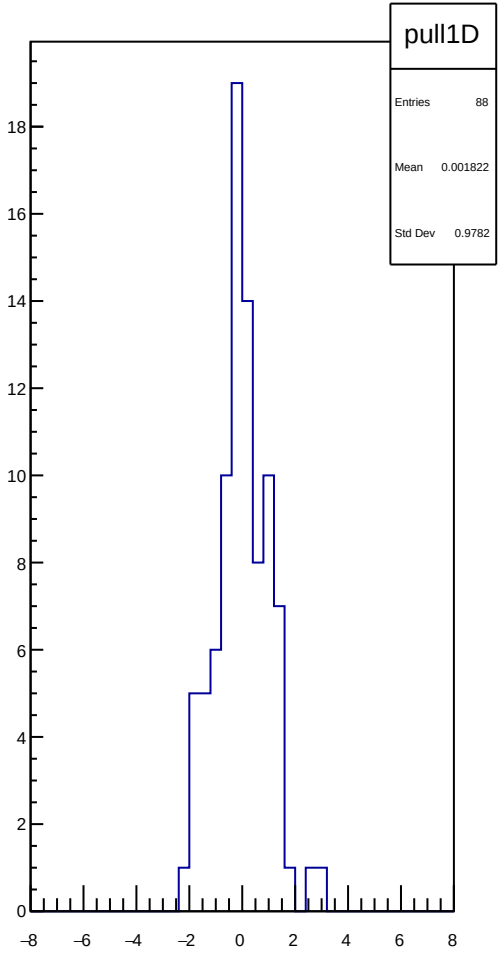

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.377e+04 / 87
p0 1247 ± 0.9698
1400
1300
1200
1100
1000

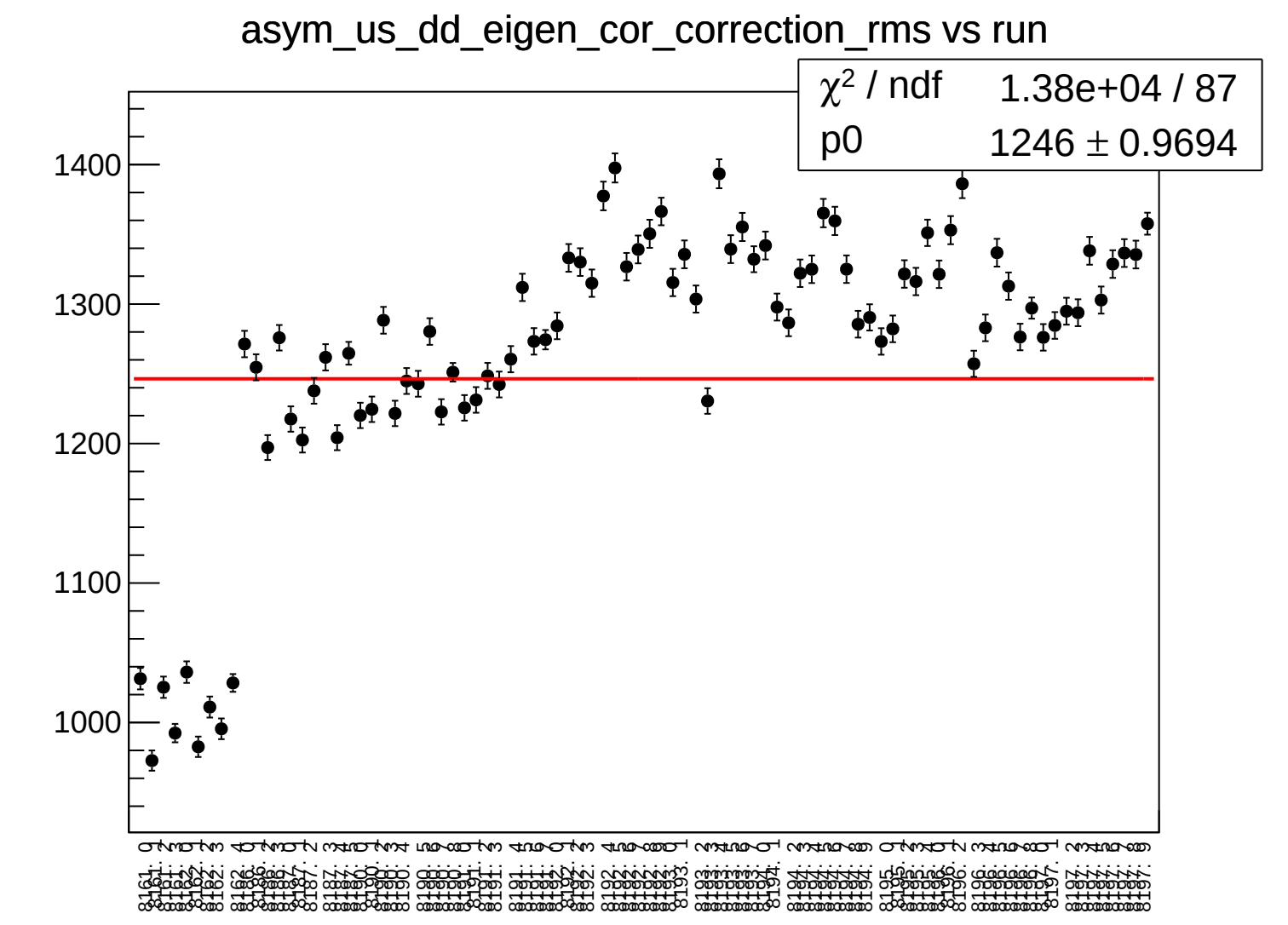

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 83.29 / 87
p0 −1000 ± 830
pull
Entries 88
Mean 166.1
Std Dev 64.34

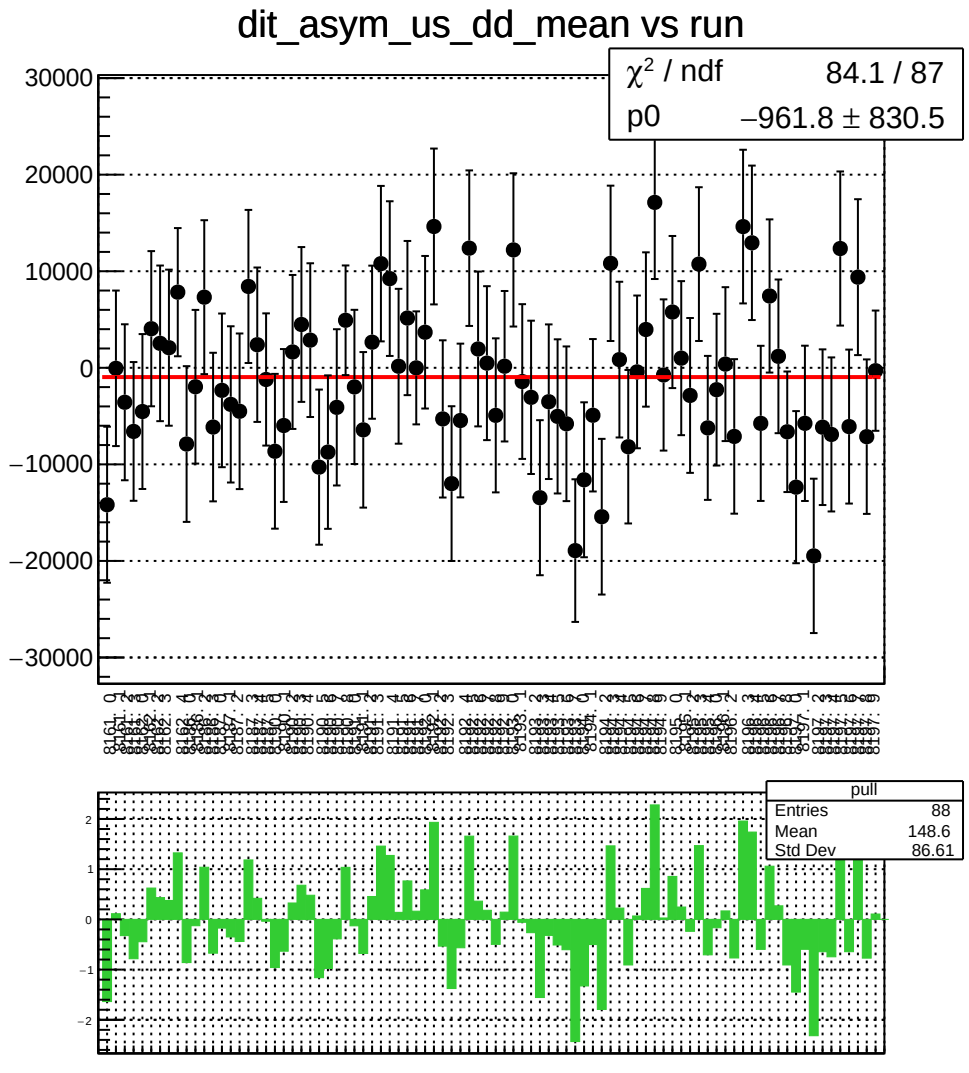

pull1D
Entries 88
Mean −0.002499
Std Dev 0.9729

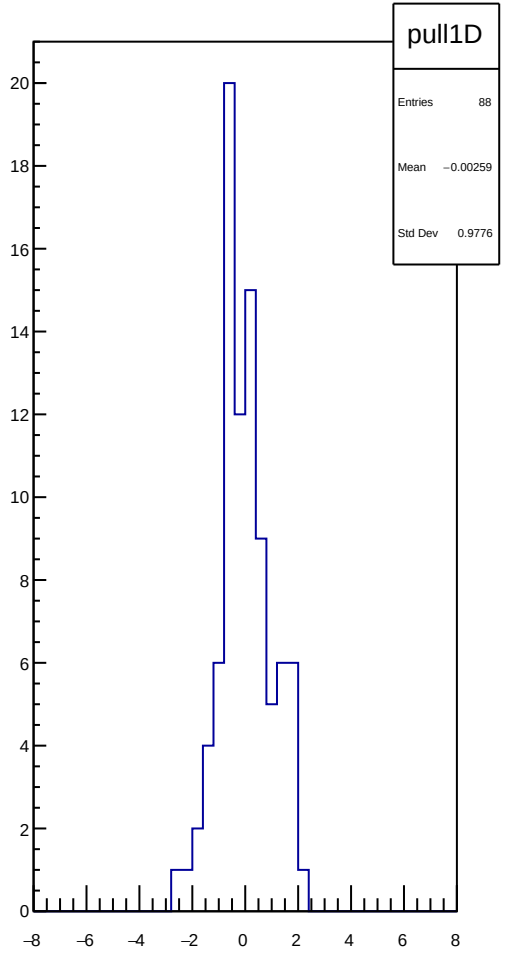

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 82.5 / 87
p0 757.7 ± 0.5869
780
775
770
765
760
755
750
745
740

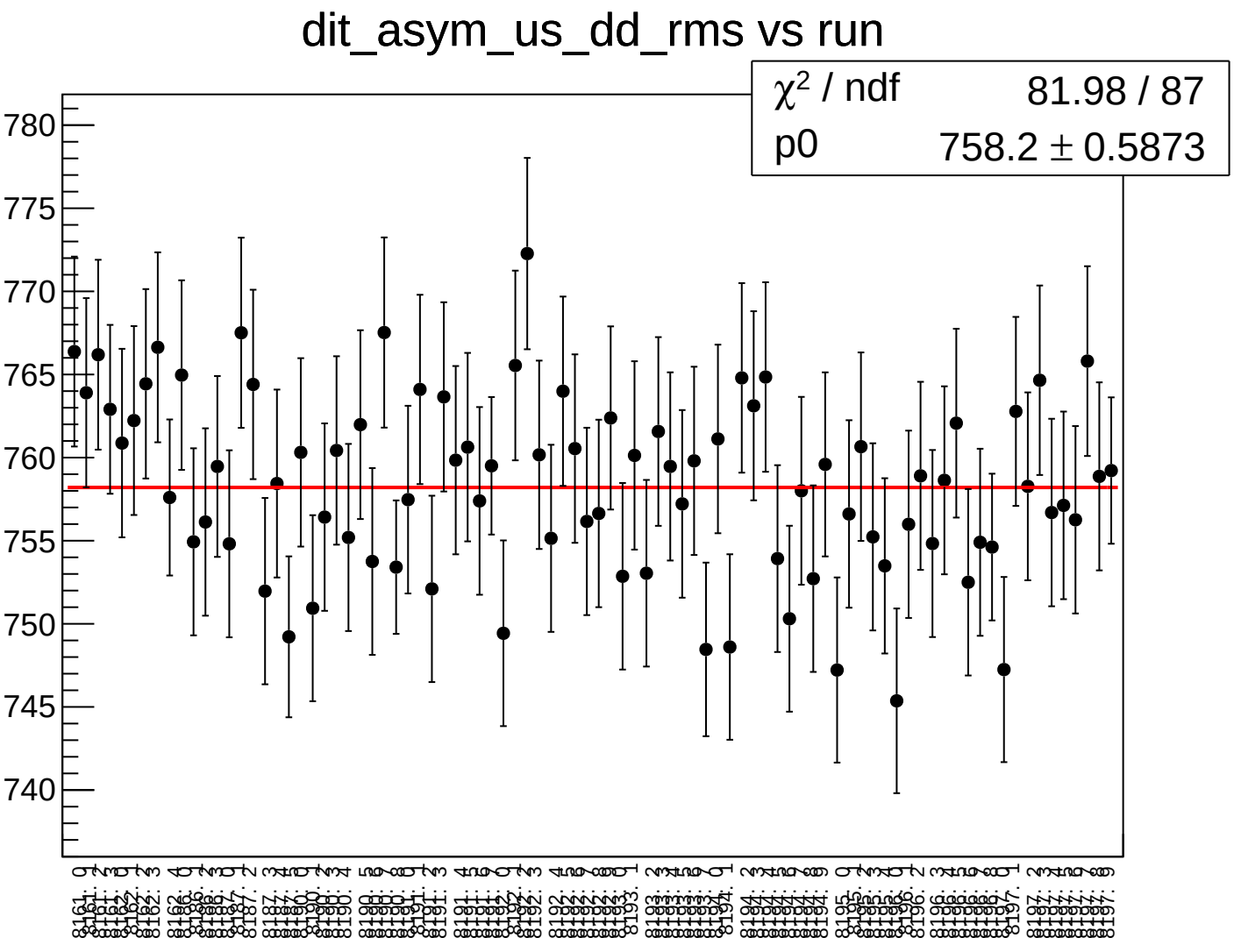

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.21 / 87
p0 −4032 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 2165
Std Dev 0

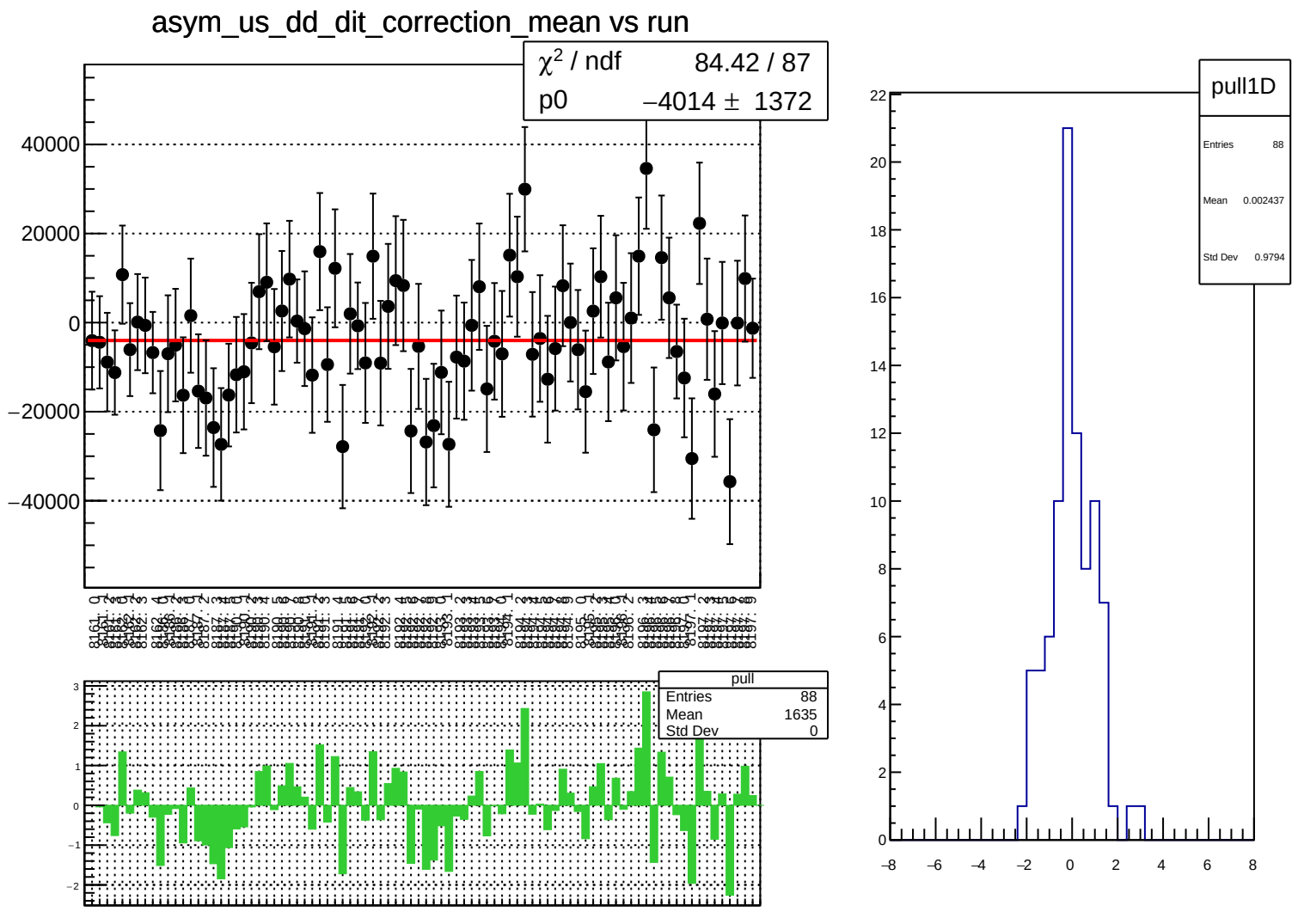

pull1D
Entries 88
Mean 0.001822
Std Dev 0.9782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

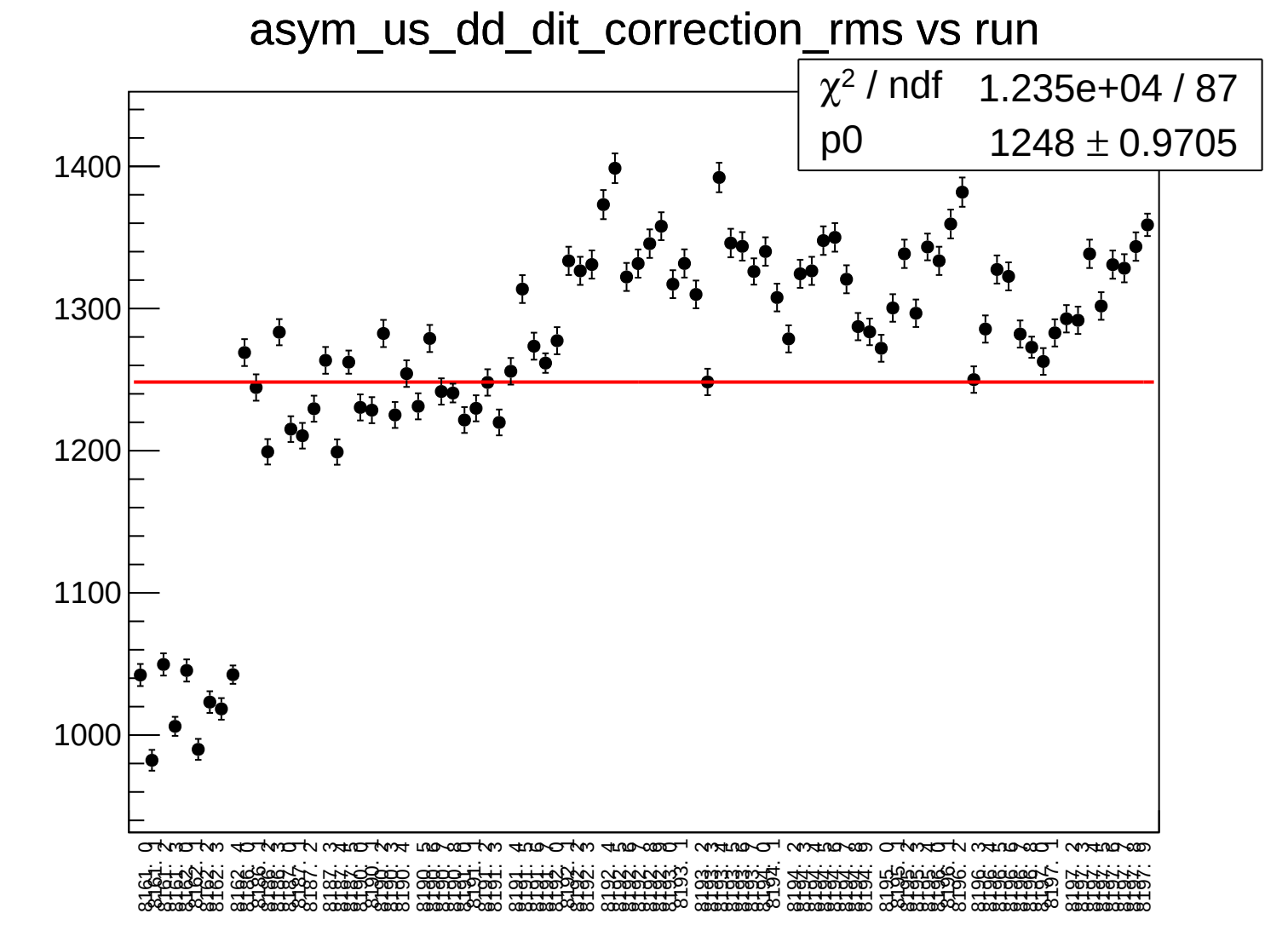

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.38e+04 / 87
p0 1246 ± 0.9694
1400
1300
1200
1100
1000

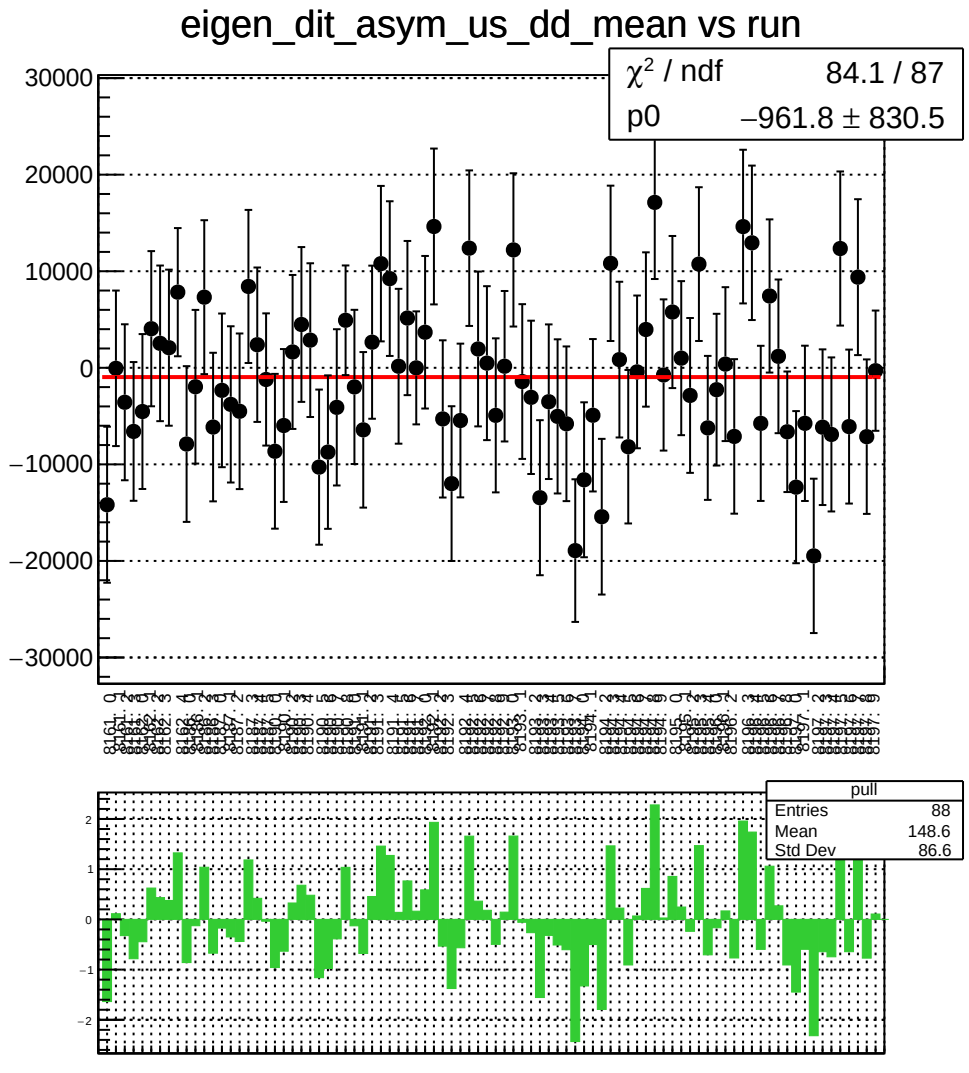

dit_asym_us_dd_mean vs run
χ² / ndf 84.1 / 87
p0 −961.8 ± 830.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 148.6
Std Dev 86.61
2
1
0
−1
−2

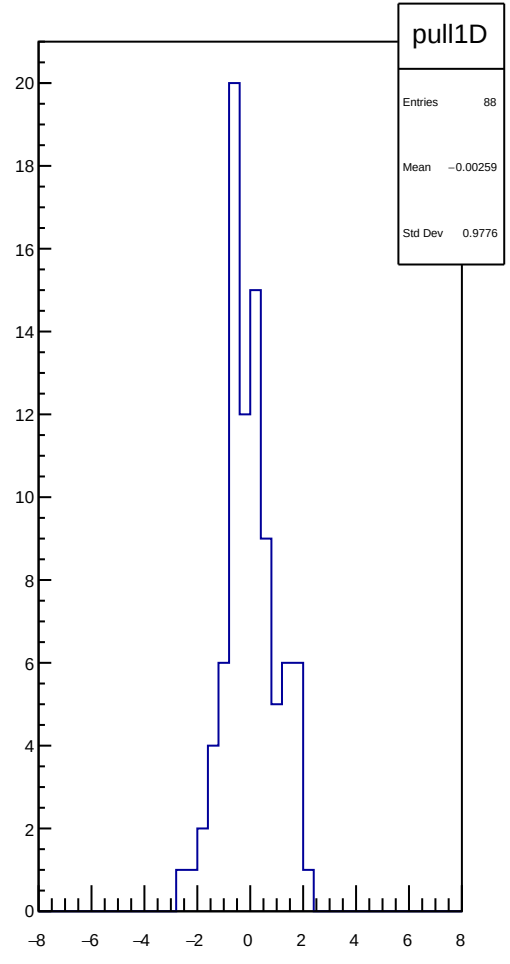

pull1D
Entries 88
Mean −0.00259
Std Dev 0.9776
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

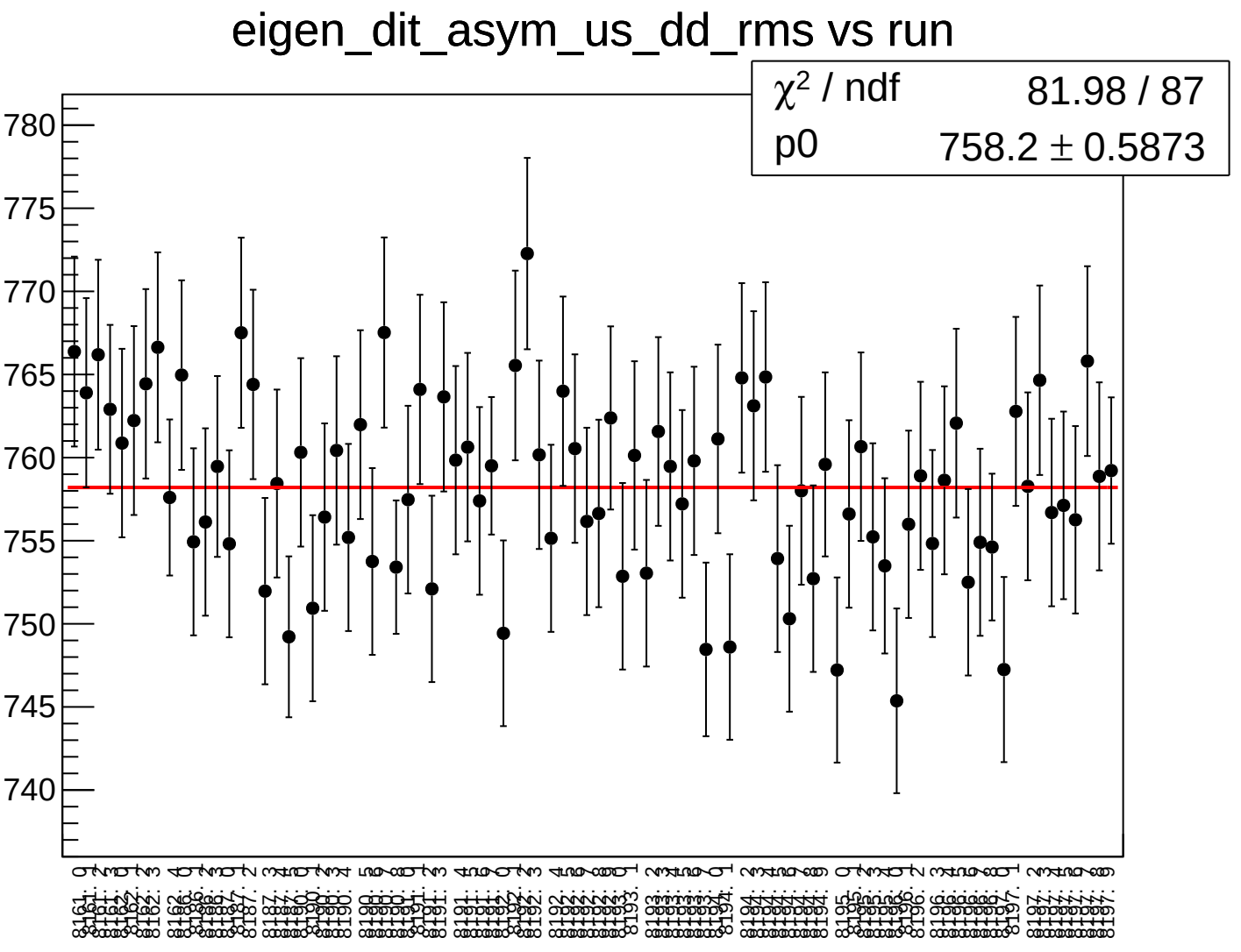

dit_asym_us_dd_rms vs run
χ² / ndf 81.98 / 87
p0 758.2 ± 0.5873
780
775
770
765
760
755
750
745
740

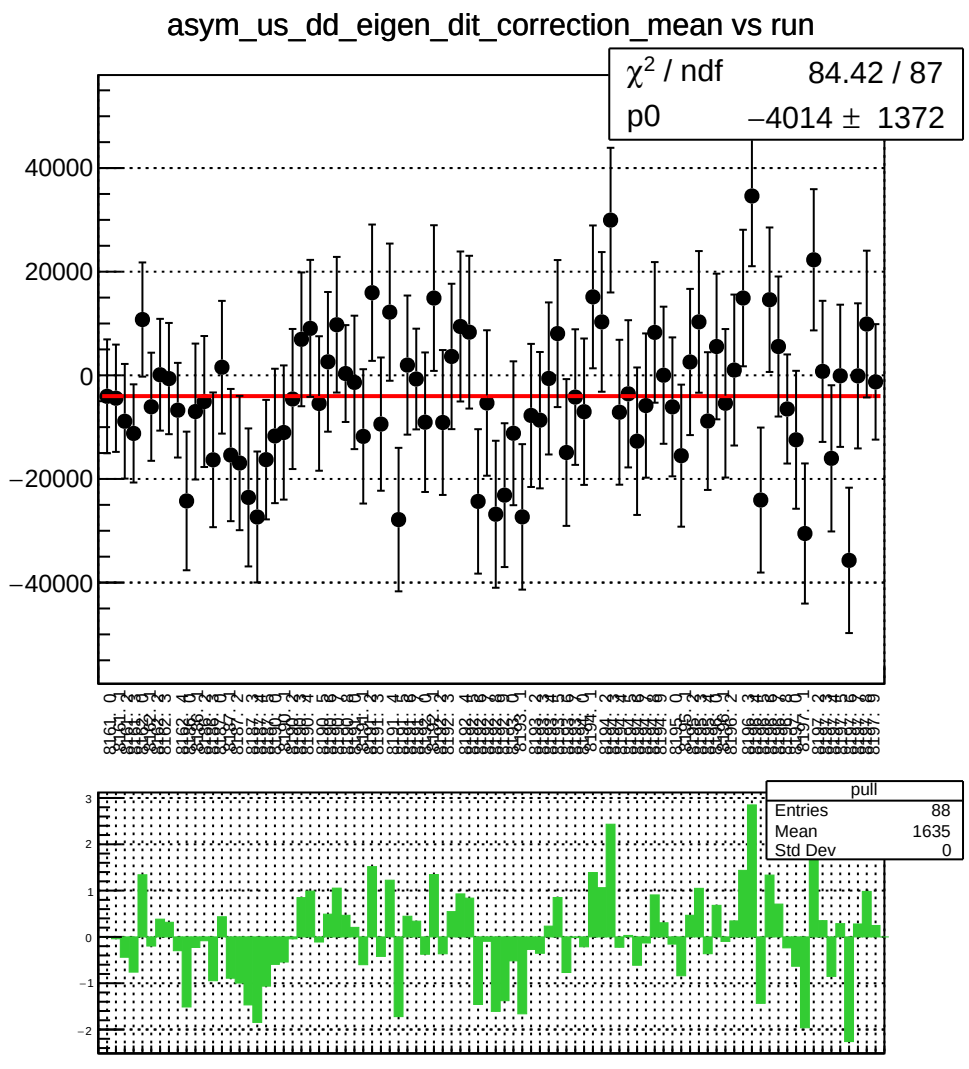

asym_us_dd_dit_correction_mean vs run
χ² / ndf 84.42 / 87
p0 −4014 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1635
Std Dev 0
pull1D
Entries 88
Mean 0.002437
Std Dev 0.9794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

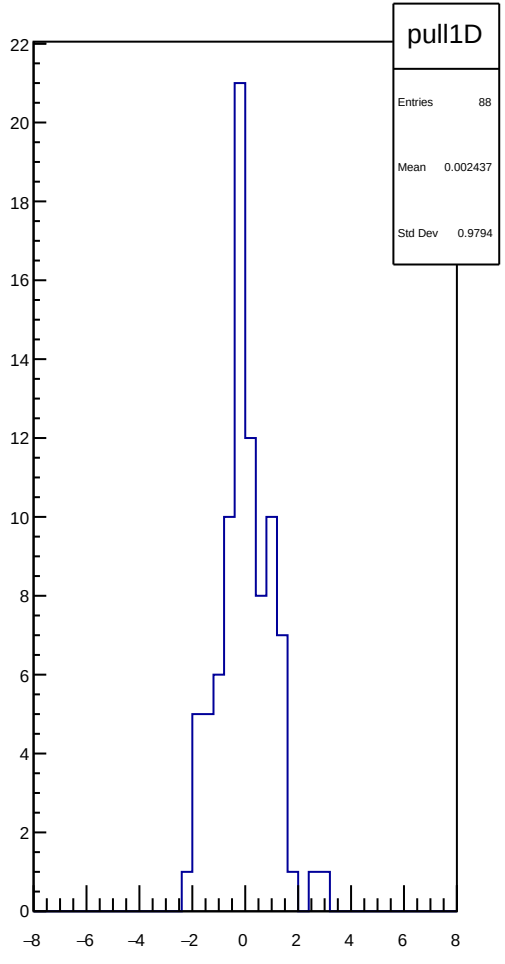

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.235e+04 / 87
p0 1248 ± 0.9705
1400
1300
1200
1100
1000

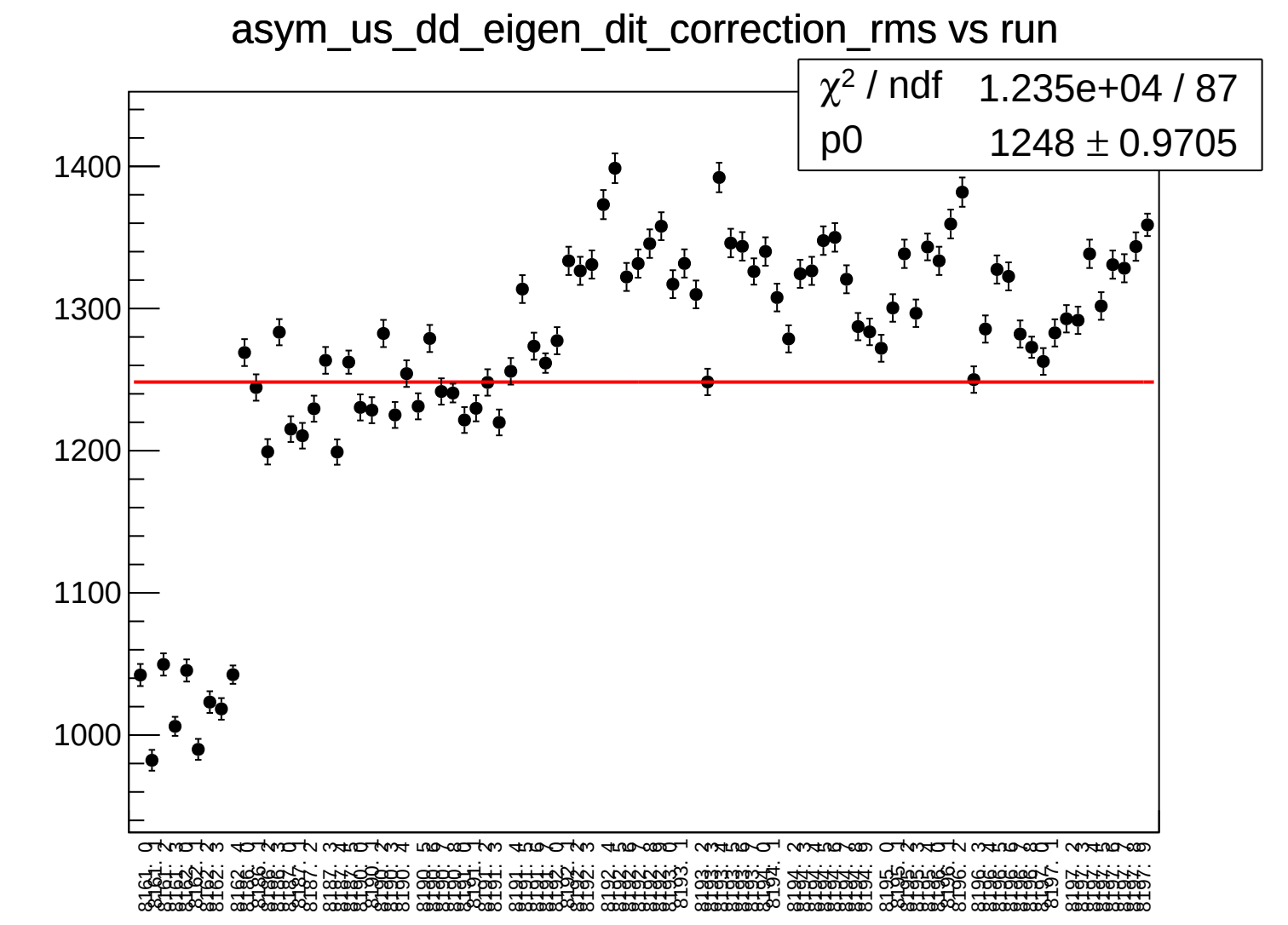

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 84.1 / 87
p0 −961.8 ± 830.5
pull
Entries 88
Mean 148.6
Std Dev 86.6

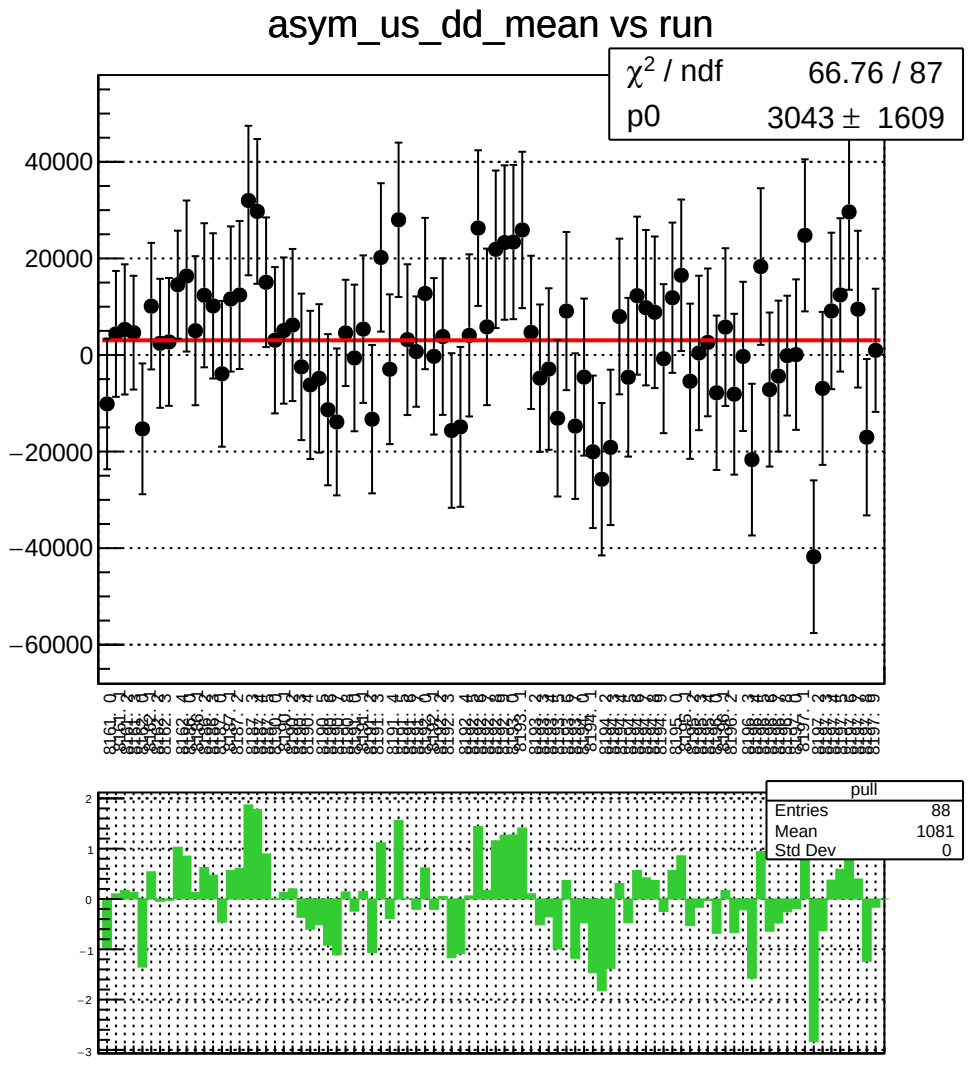

pull1D
Entries 88
Mean −0.00259
Std Dev 0.9776

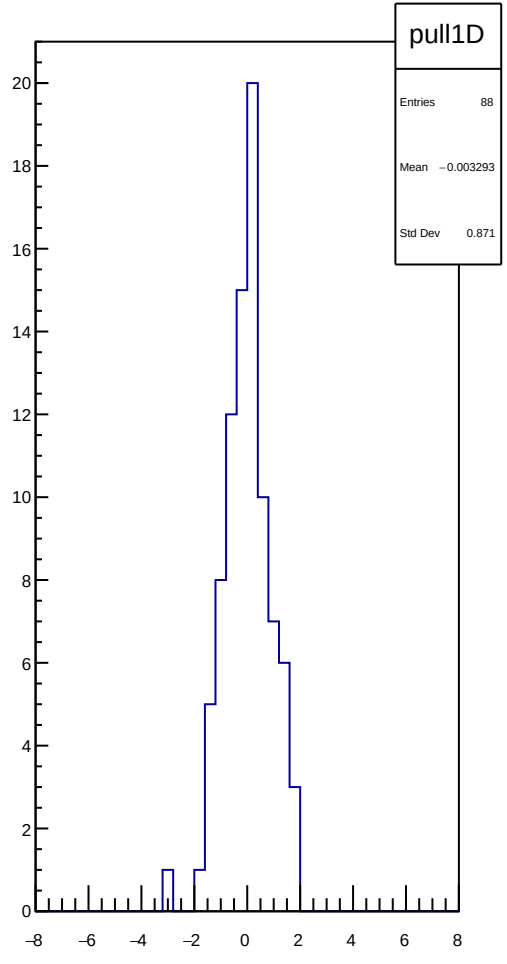

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 81.98 / 87
p0 758.2 ± 0.5873
780
775
770
765
760
755
750
745
740

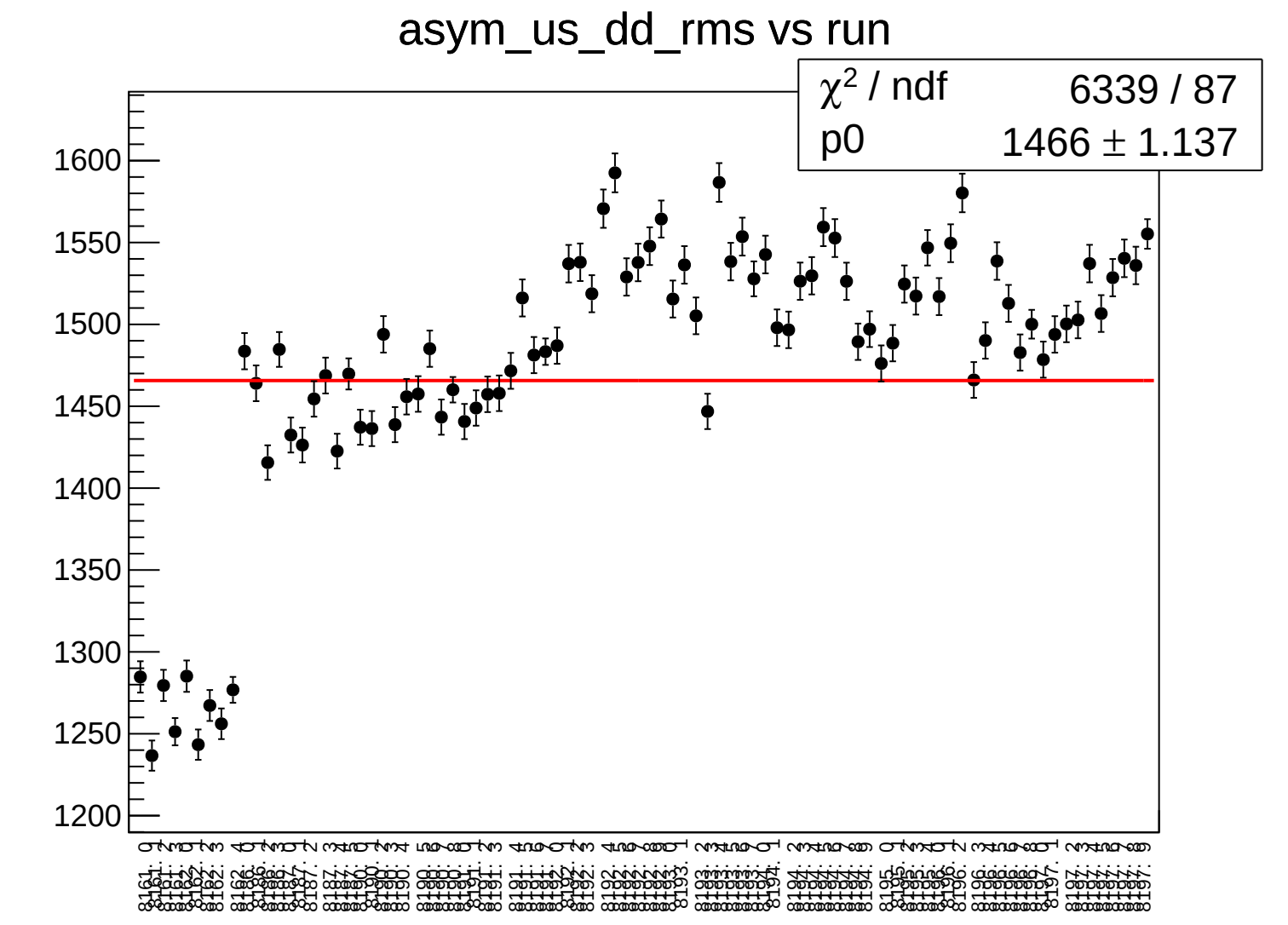

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.42 / 87
p0 −4014 ± 1372
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1635
Std Dev 0
3
2
1
0
−1
−2

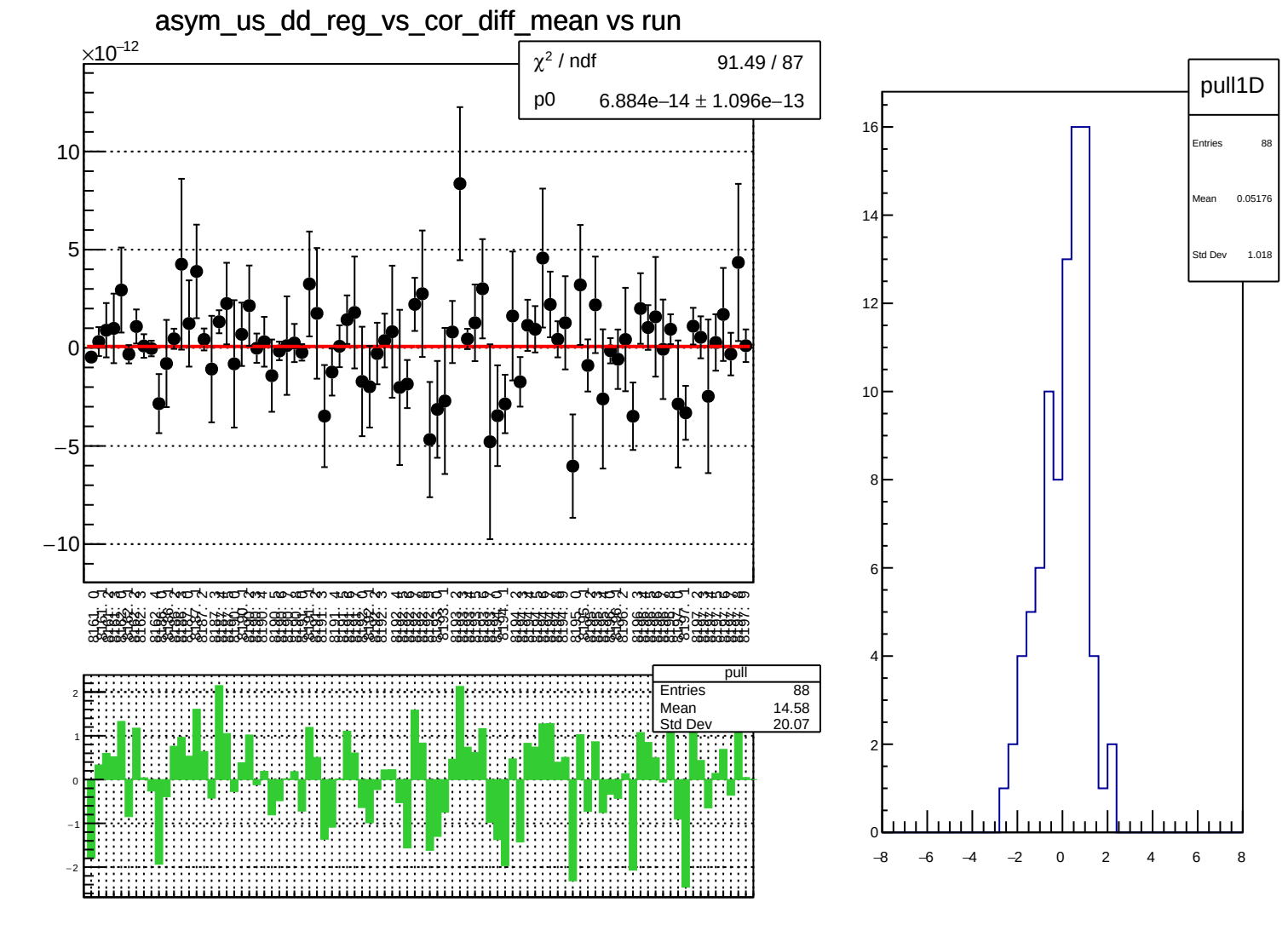

pull1D
Entries 88
Mean 0.002437
Std Dev 0.9794
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

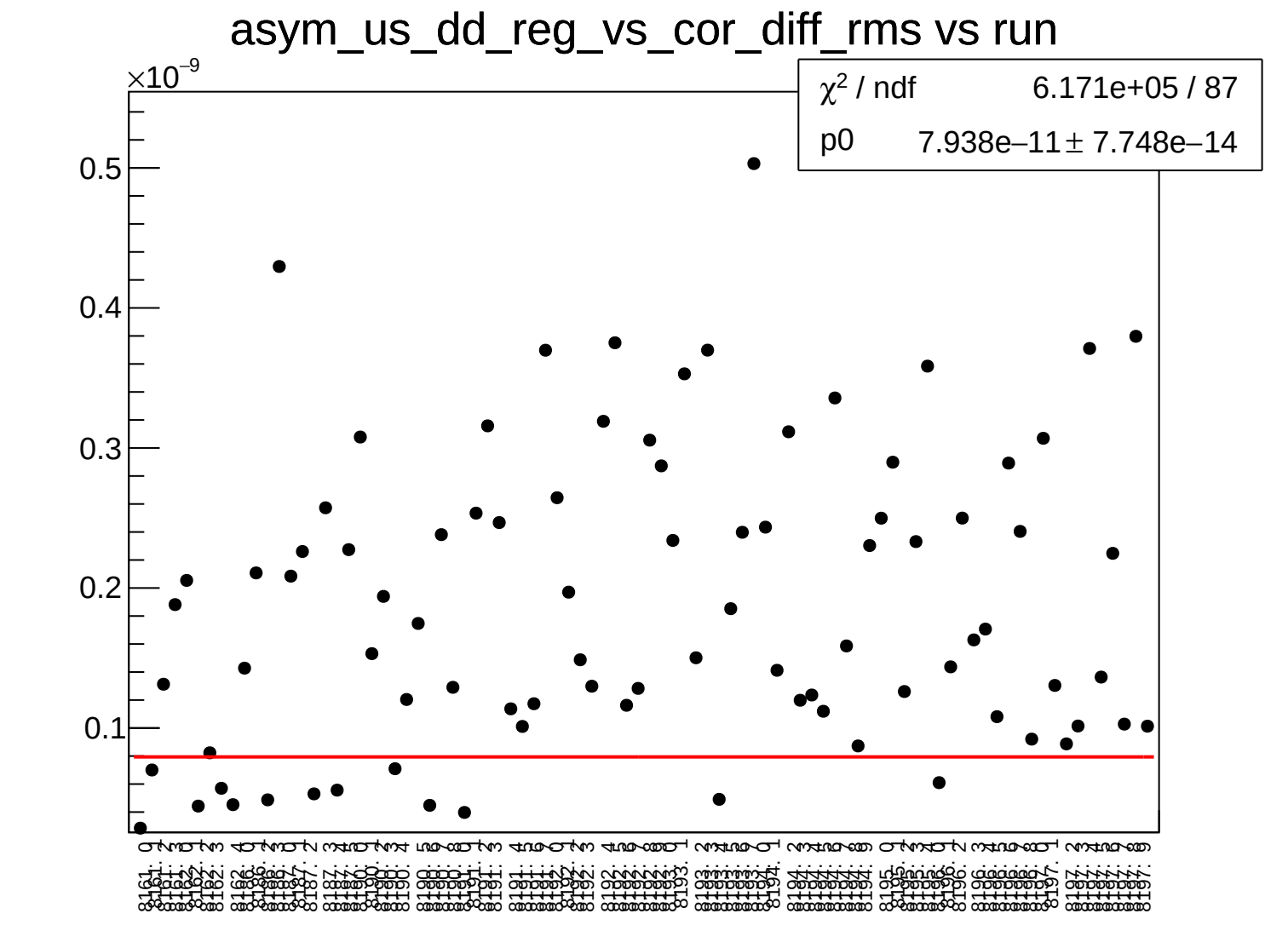

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.235e+04 / 87
p0 1248 ± 0.9705
1400
1300
1200
1100
1000

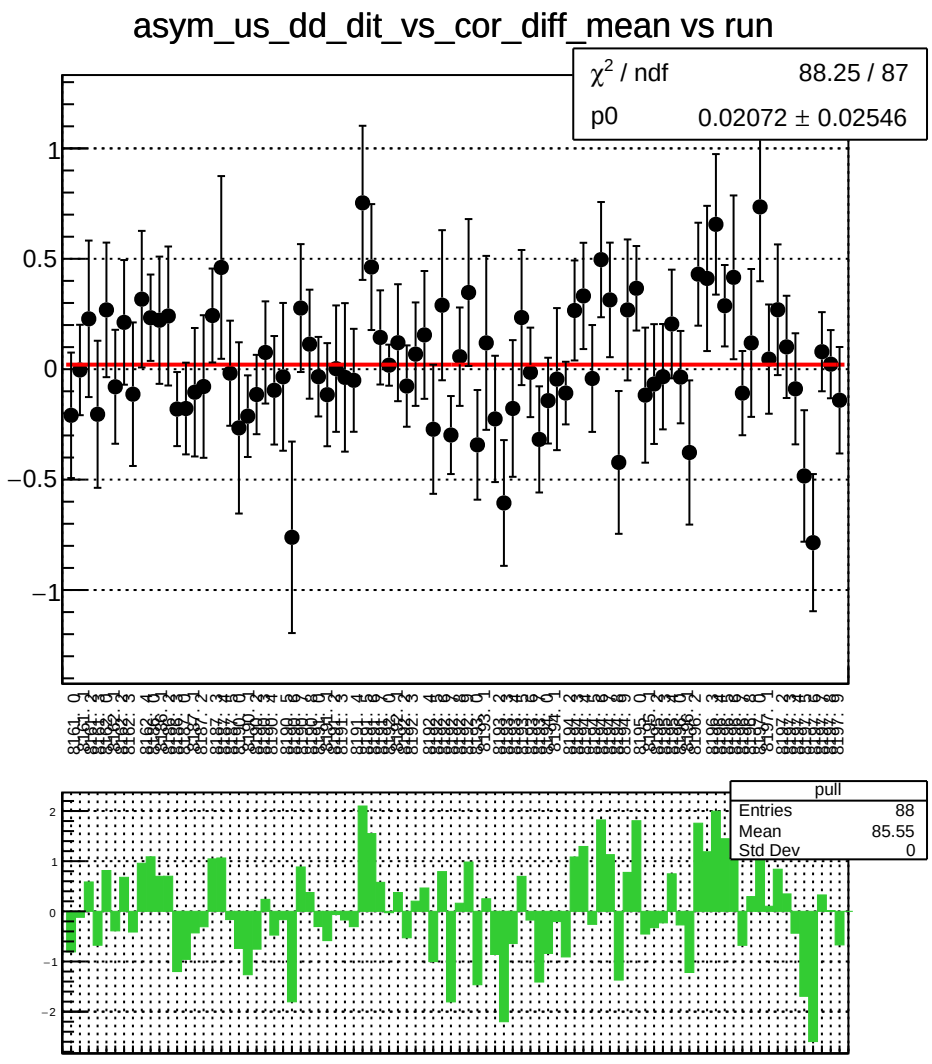

asym_us_dd_mean vs run
χ² / ndf 66.76 / 87
p0 3043 ± 1609
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1081
Std Dev 0
2
1
0
−1
−2
−3

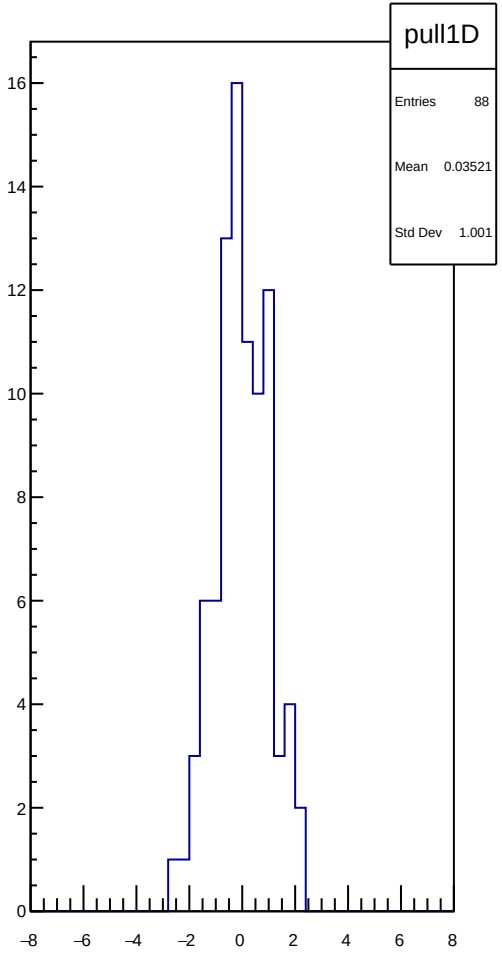

pull1D
Entries 88
Mean −0.003293
Std Dev 0.871
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

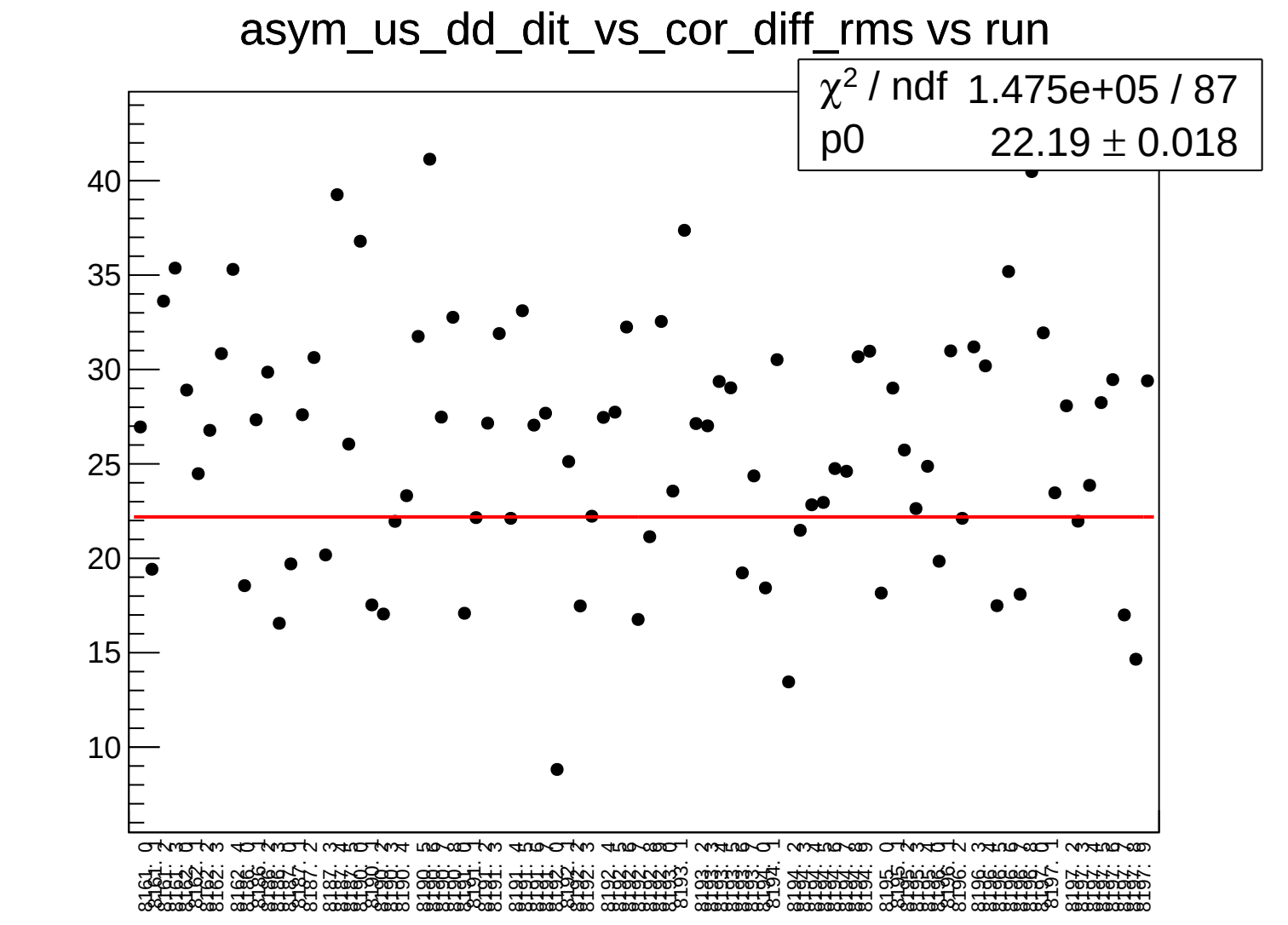

asym_us_dd_rms vs run
χ² / ndf 6339 / 87
p0 1466 ± 1.137
1600
1550
1500
1450
1400
1350
1300
1250
1200

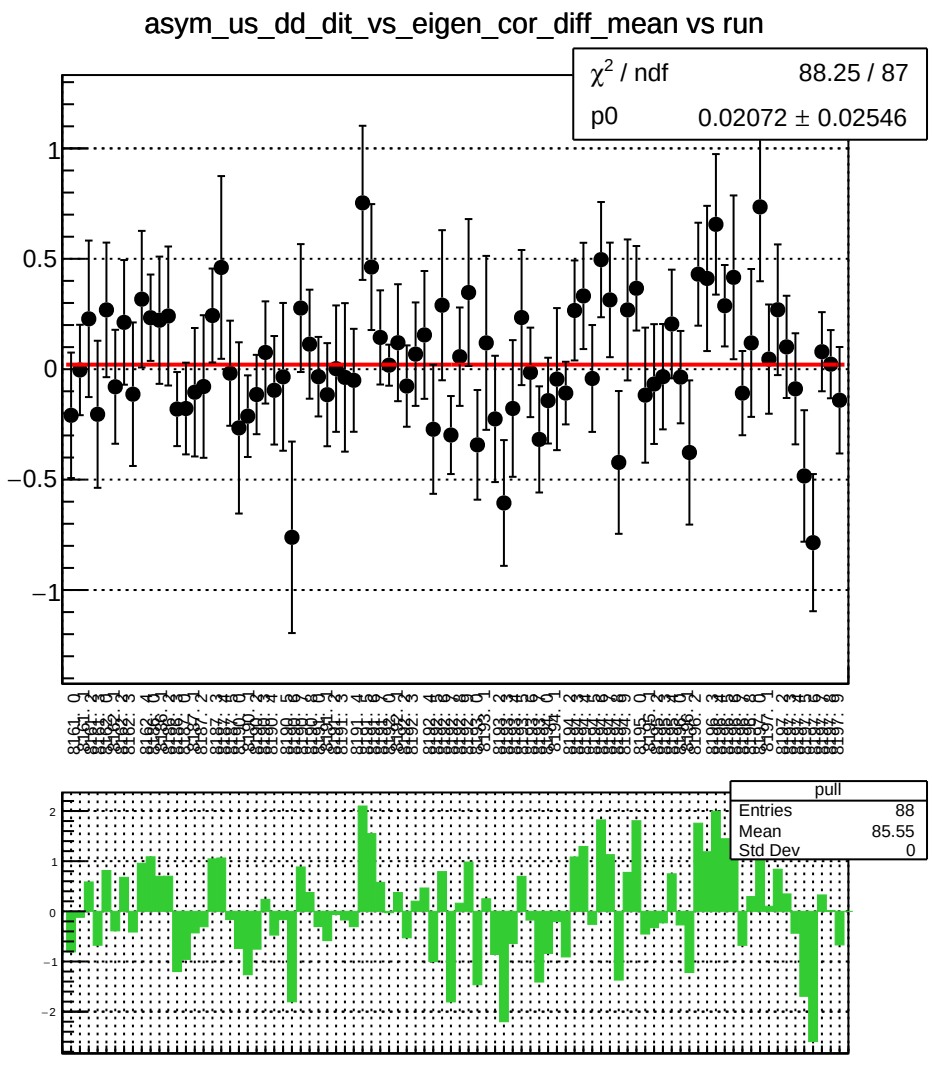

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.49 / 87
p0 6.884e−14 ± 1.096e−13
pull
Entries 88
Mean 14.58
Std Dev 20.07
pull1D
Entries 88
Mean 0.05176
Std Dev 1.018

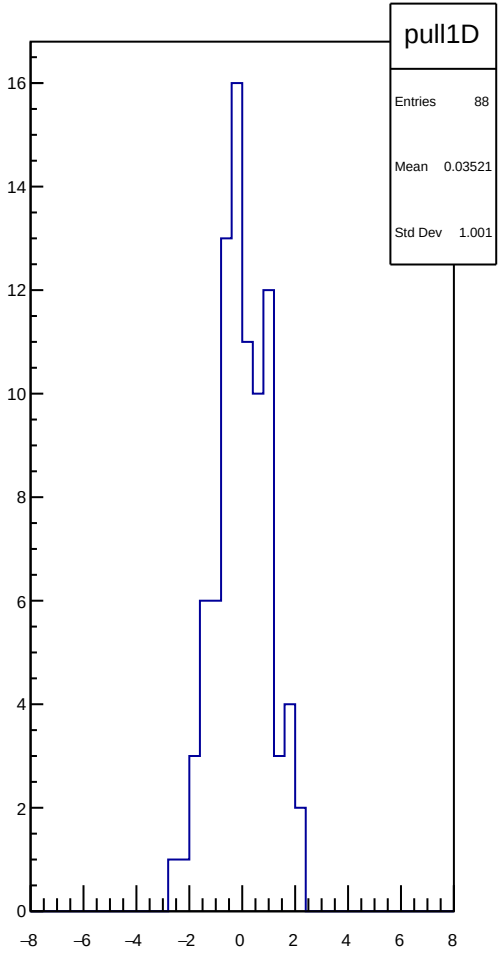

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.171e+05 / 87
p0 7.938e−11 ± 7.748e−14
0.5
0.4
0.3
0.2
0.1

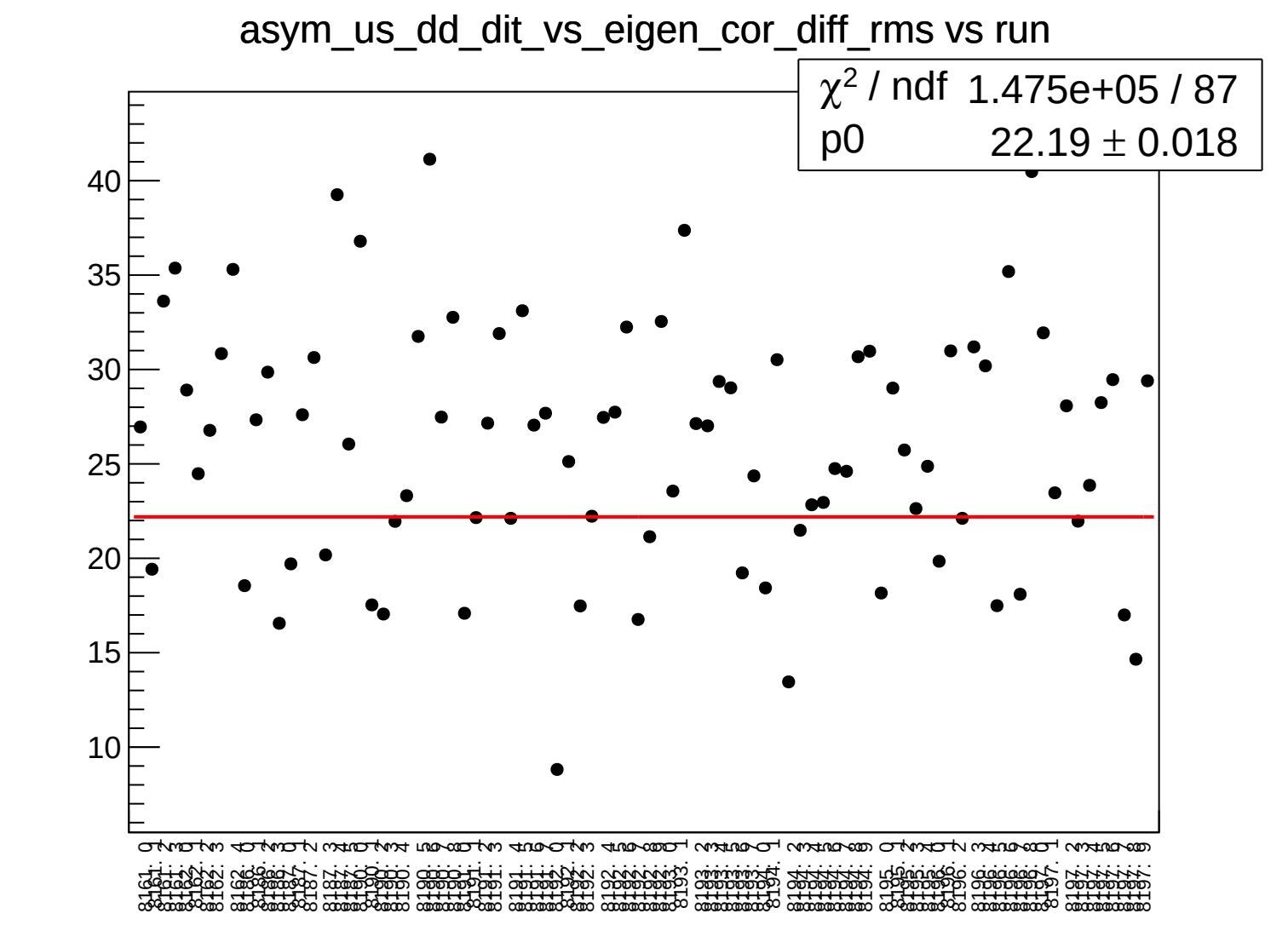

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.25 / 87
p0 0.02072 ± 0.02546
pull
Entries 88
Mean 85.55
Std Dev 0

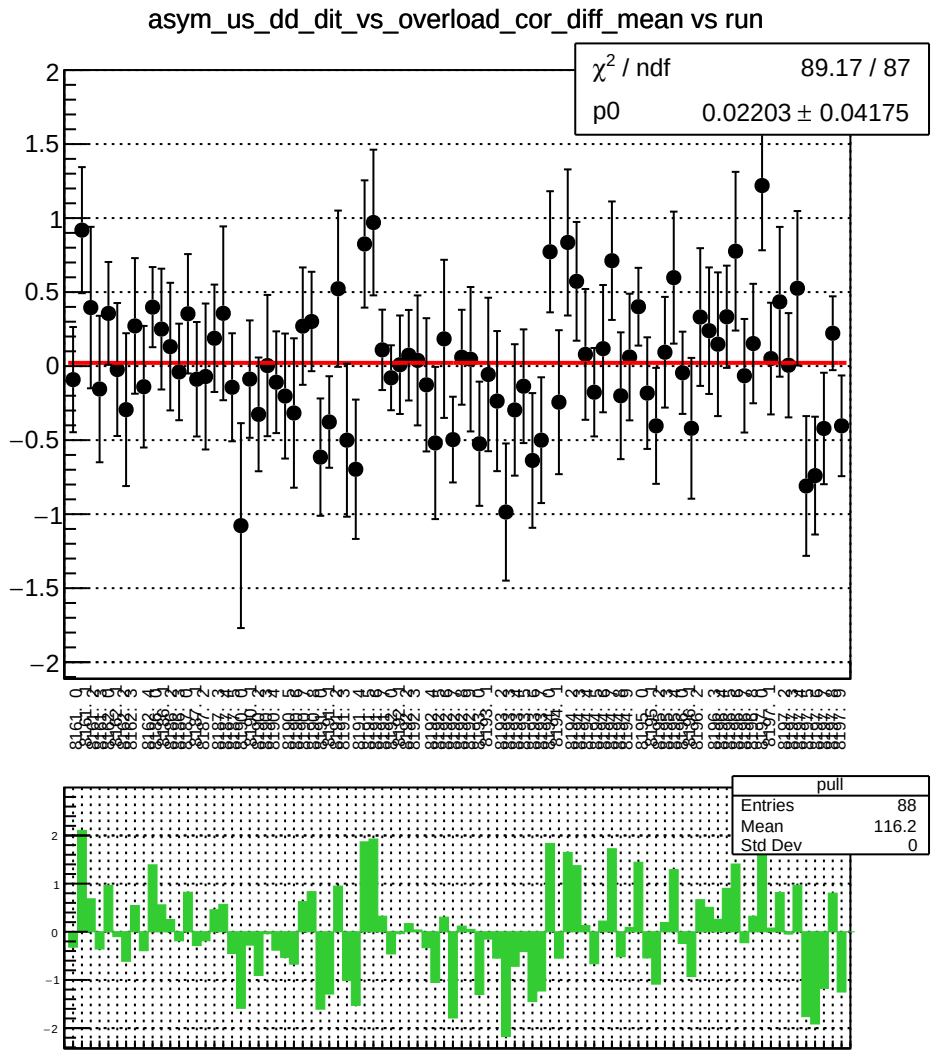

pull1D
Entries 88
Mean 0.03521
Std Dev 1.001

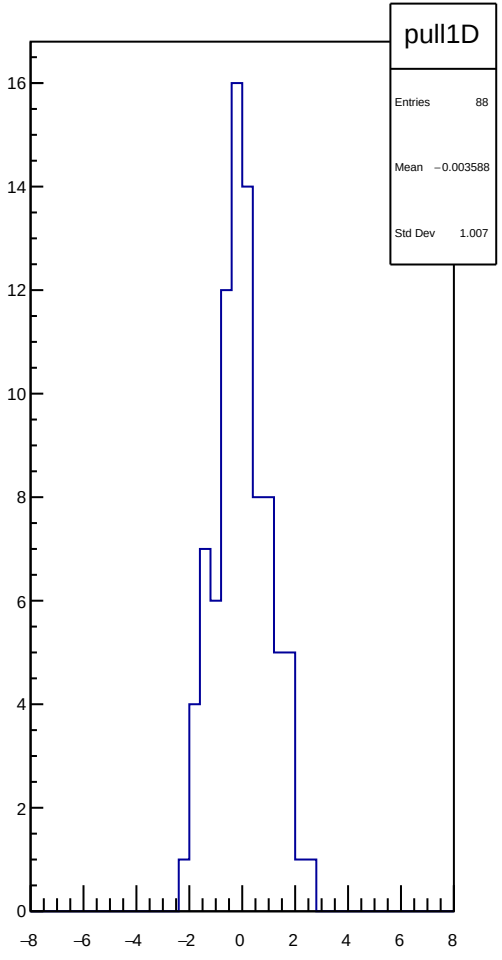

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.475e+05 / 87
p0 22.19 ± 0.018
40
35
30
25
20
15
10

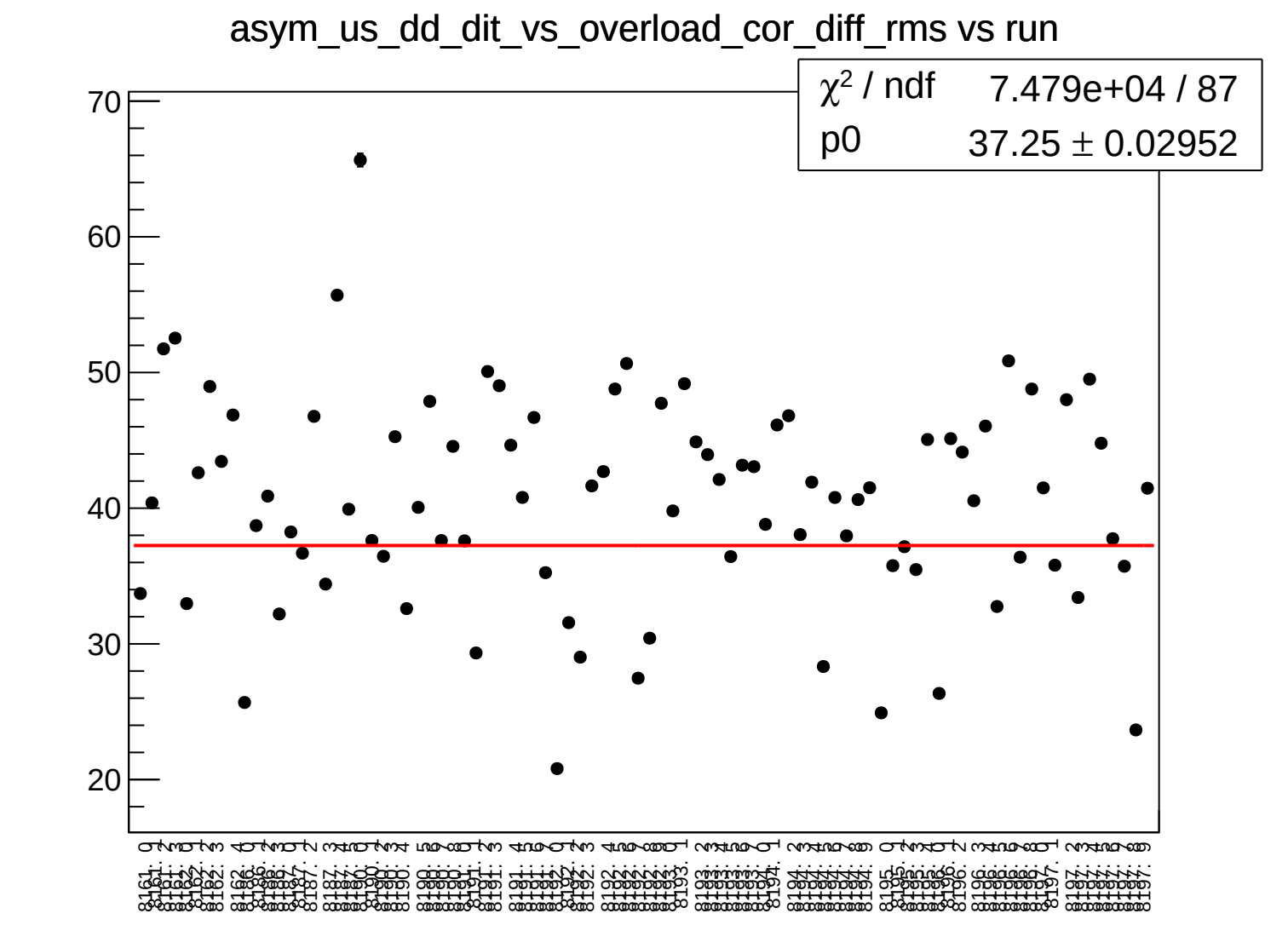

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.25 / 87
p0 0.02072 ± 0.02546
pull
Entries 88
Mean 85.55
Std Dev 0

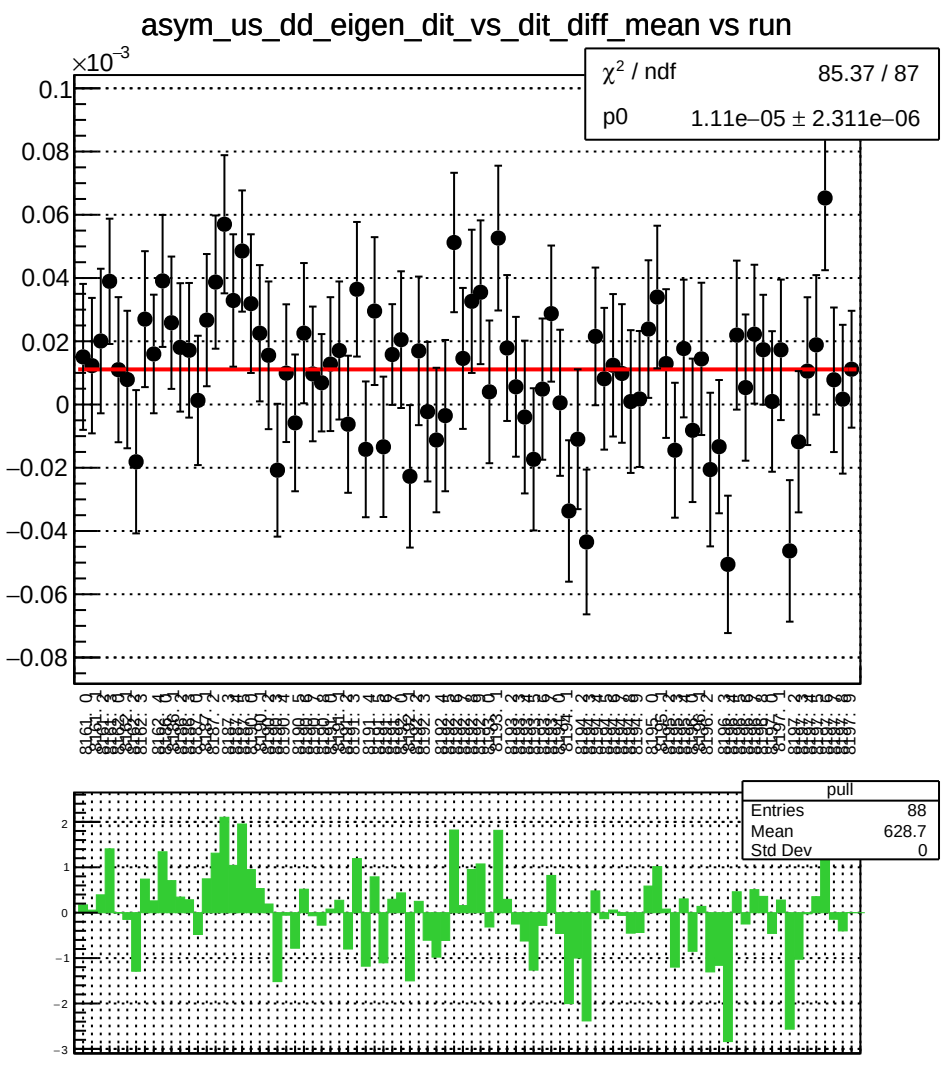

pull1D
Entries 88
Mean 0.03521
Std Dev 1.001

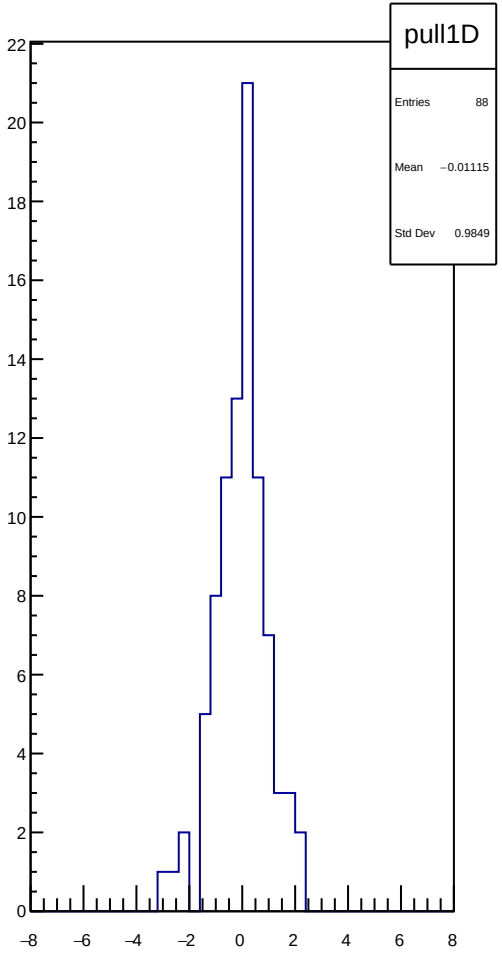

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.475e+05 / 87
p0 22.19 ± 0.018
40
35
30
25
20
15
10

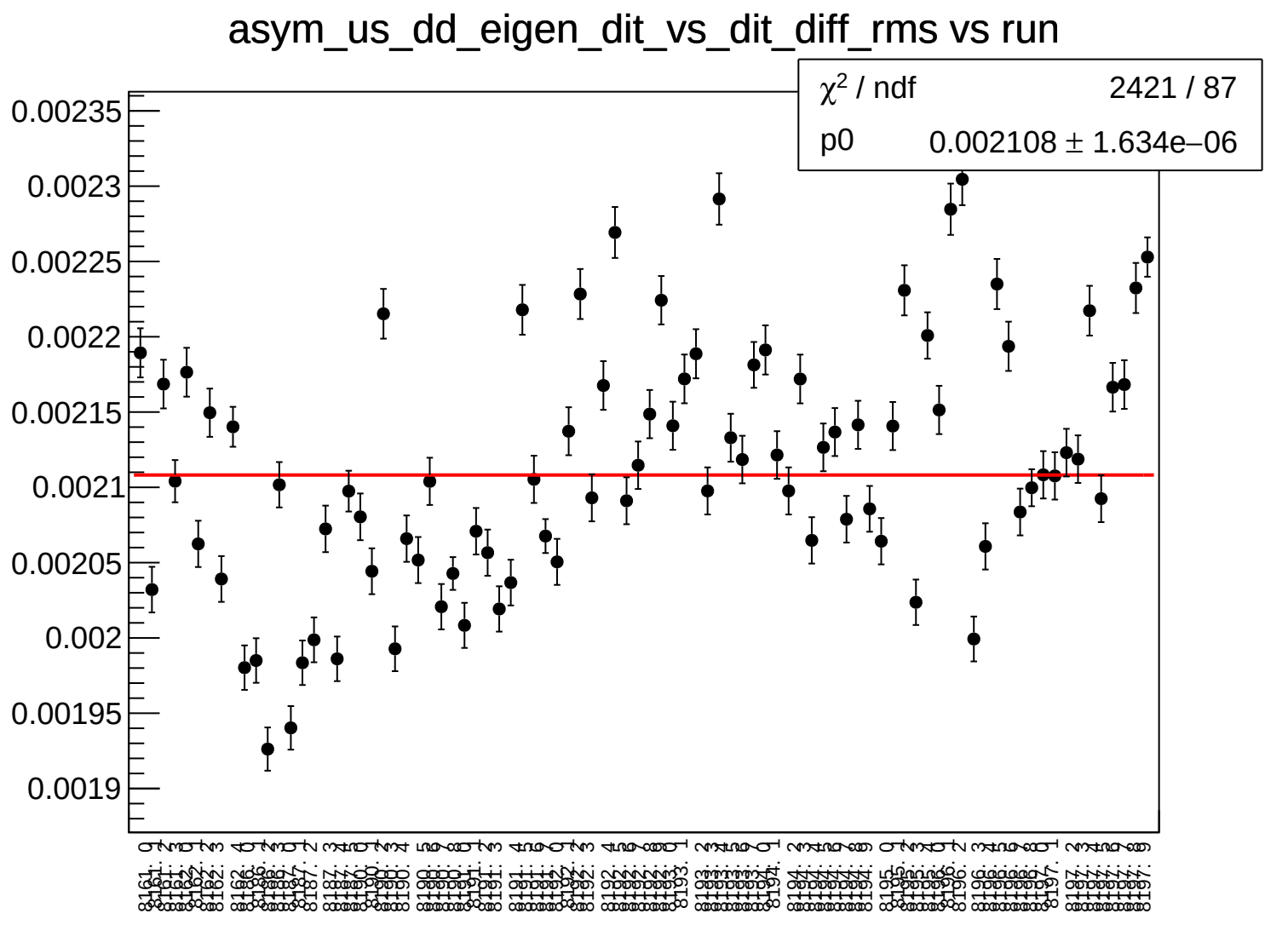

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ^2 / ndf 89.17 / 87
p0 0.02203 ± 0.04175
pull
Entries 88
Mean 116.2
Std Dev 0

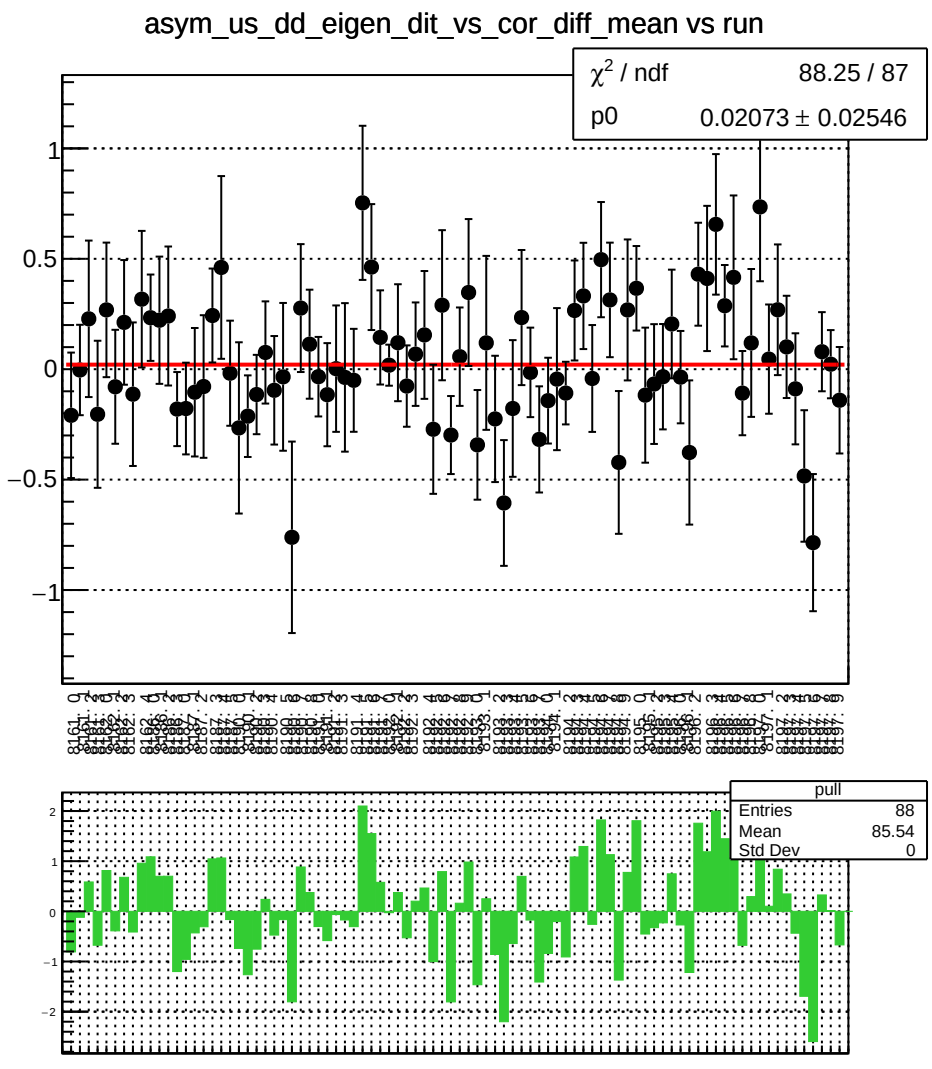

pull1D
Entries 88
Mean −0.003588
Std Dev 1.007

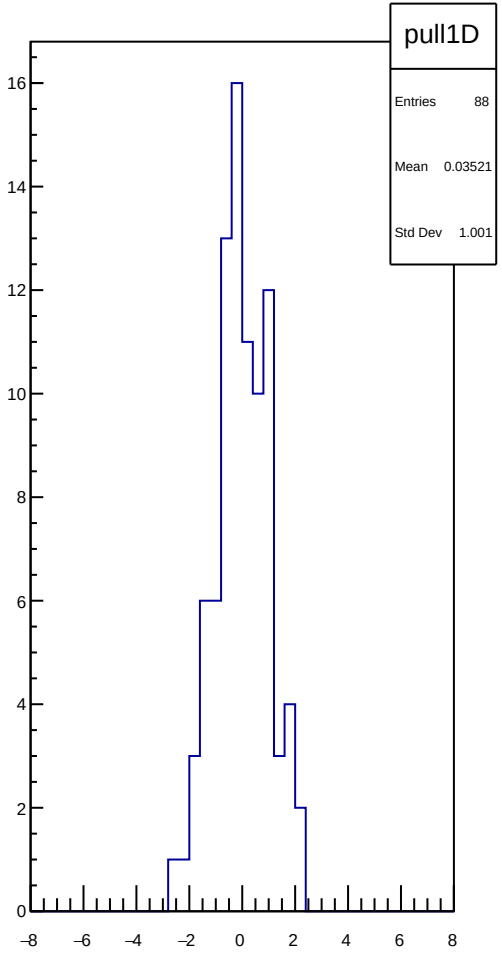

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.479e+04 / 87
p0 37.25 ± 0.02952
70
60
50
40
30
20

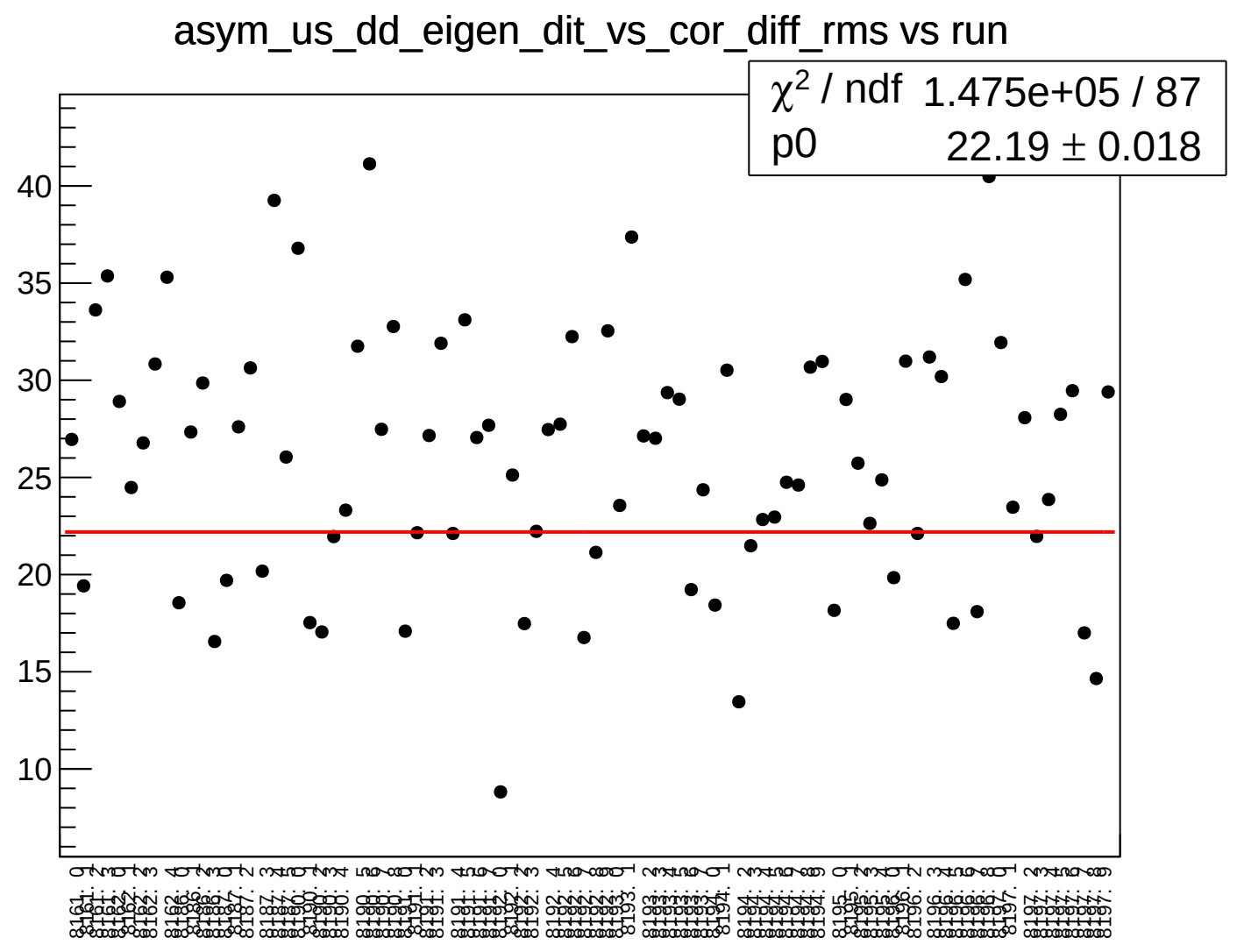

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.37 / 87
p0 1.11e−05 ± 2.311e−06
pull
Entries 88
Mean 628.7
Std Dev 0

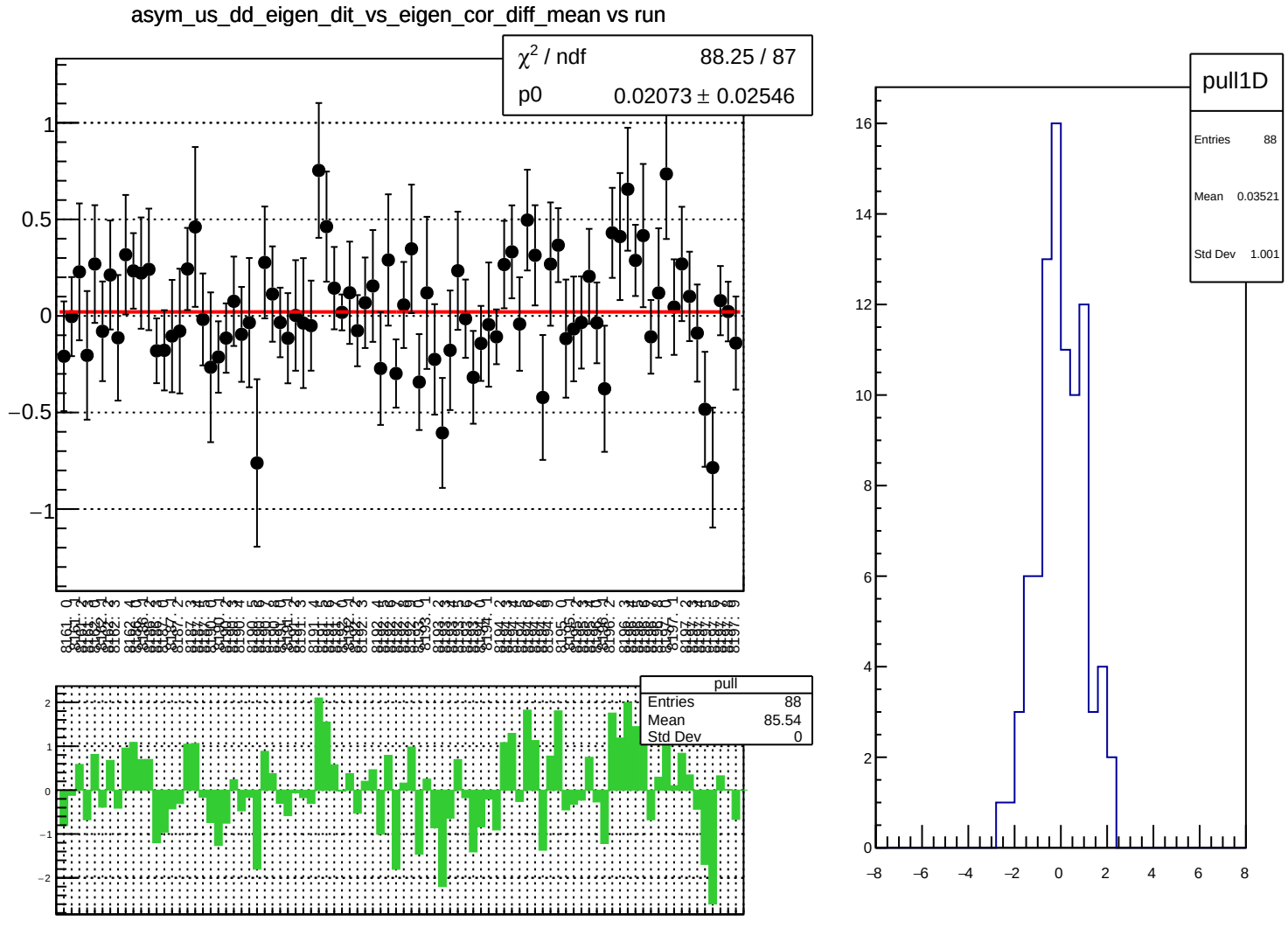

pull1D
Entries 88
Mean −0.01115
Std Dev 0.9849

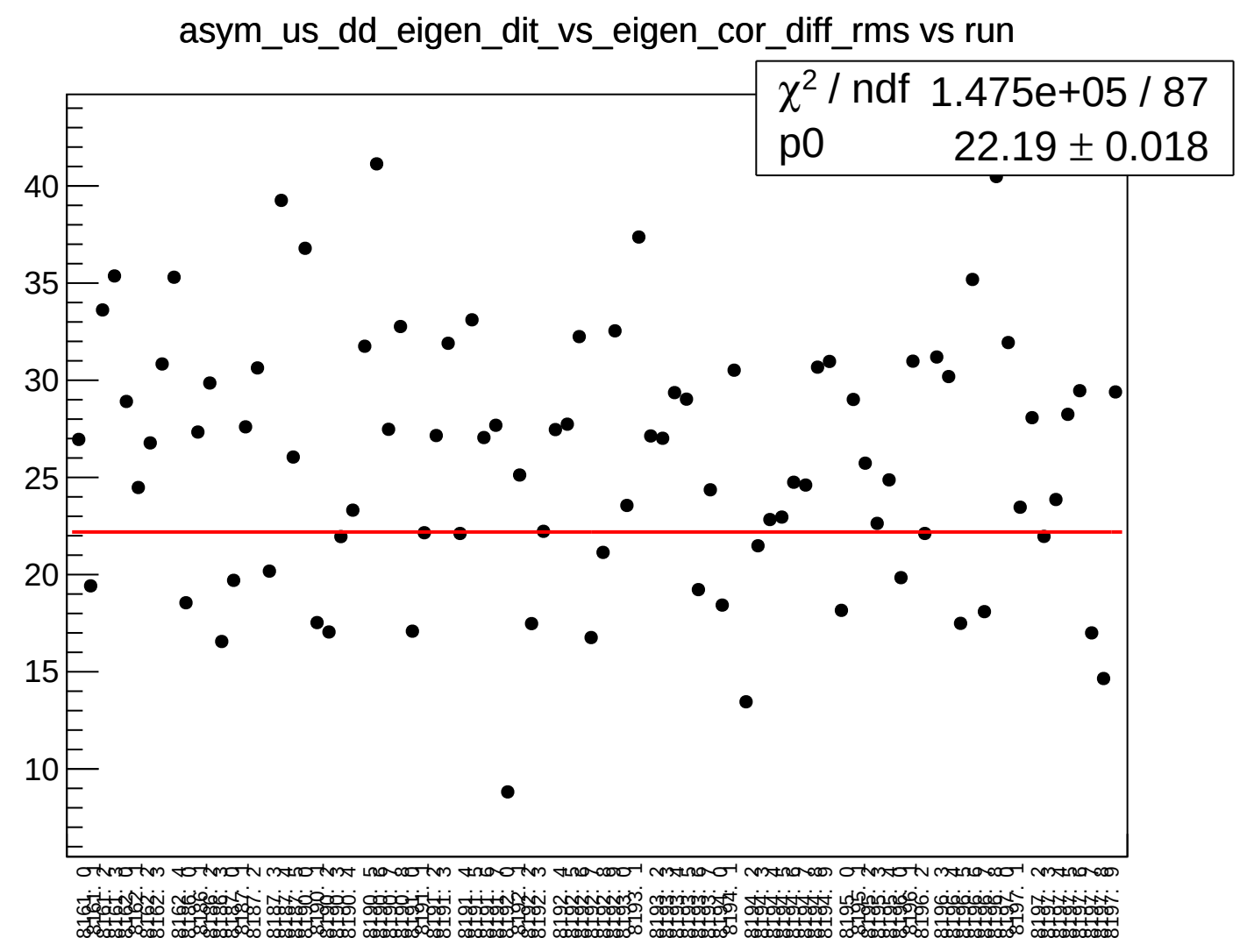

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2421 / 87
p0 0.002108 ± 1.634e−06
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019

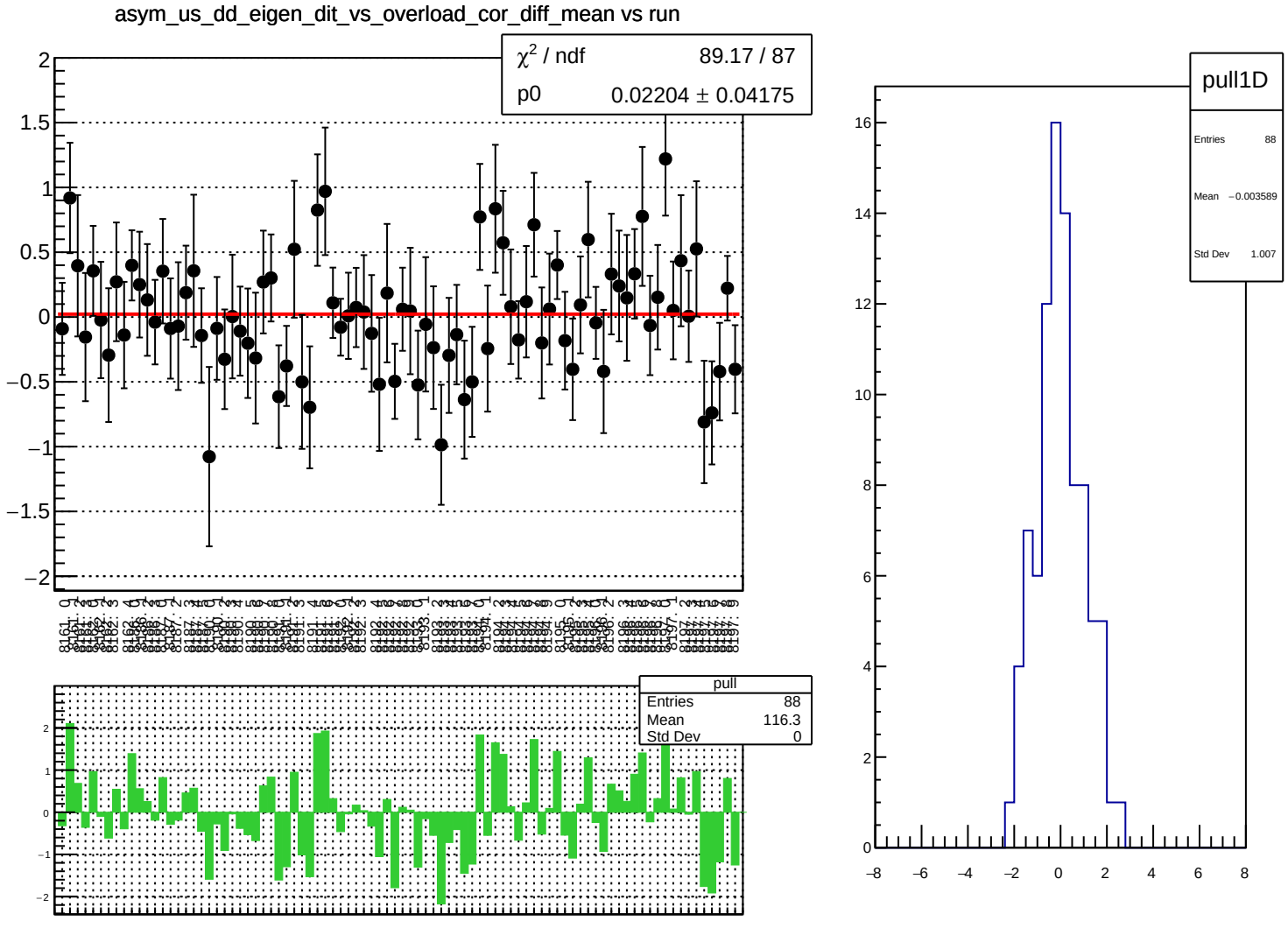

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.25 / 87
p0 0.02073 ± 0.02546
pull
Entries 88
Mean 85.54
Std Dev 0

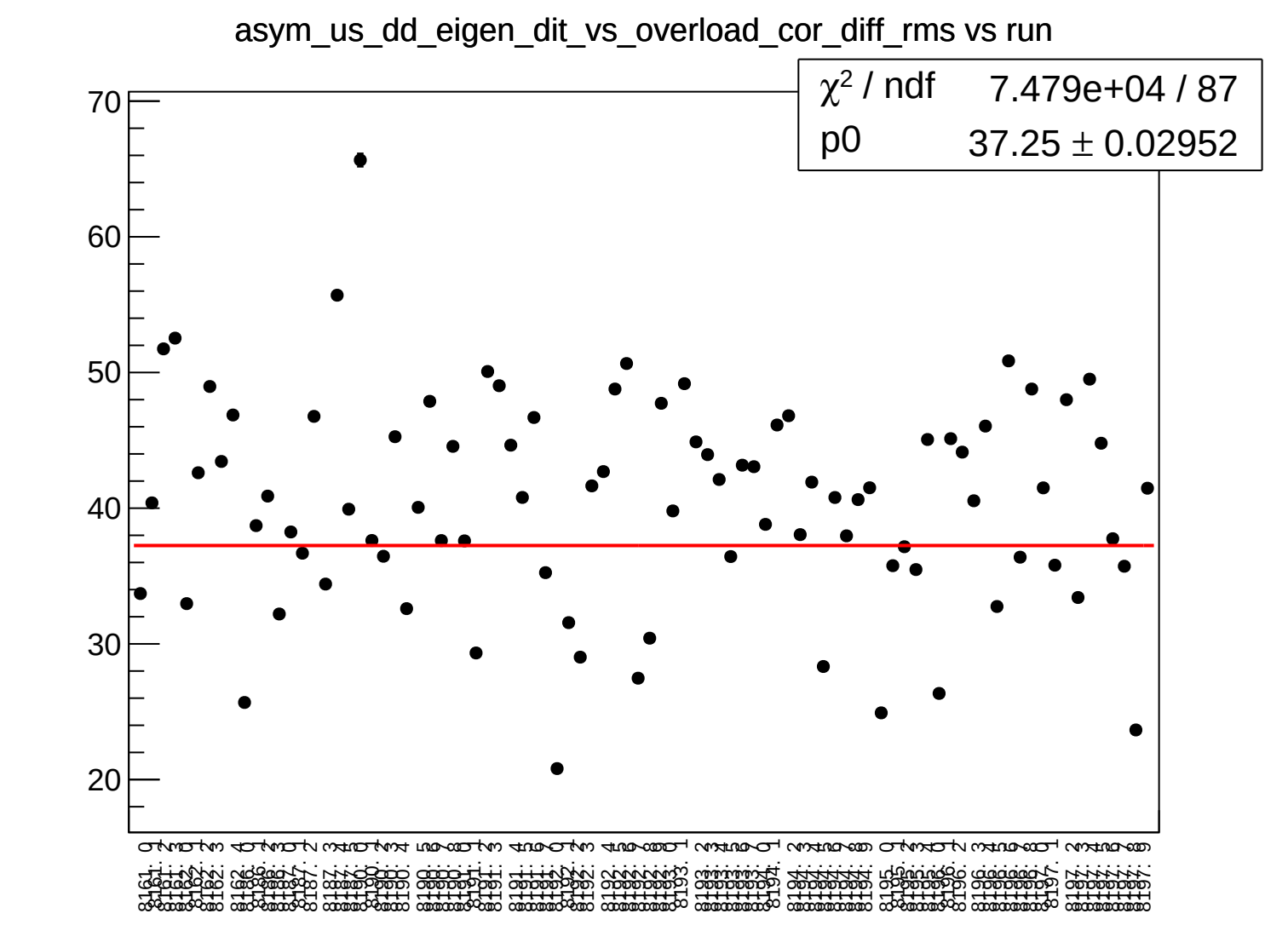

pull1D
Entries 88
Mean 0.03521
Std Dev 1.001

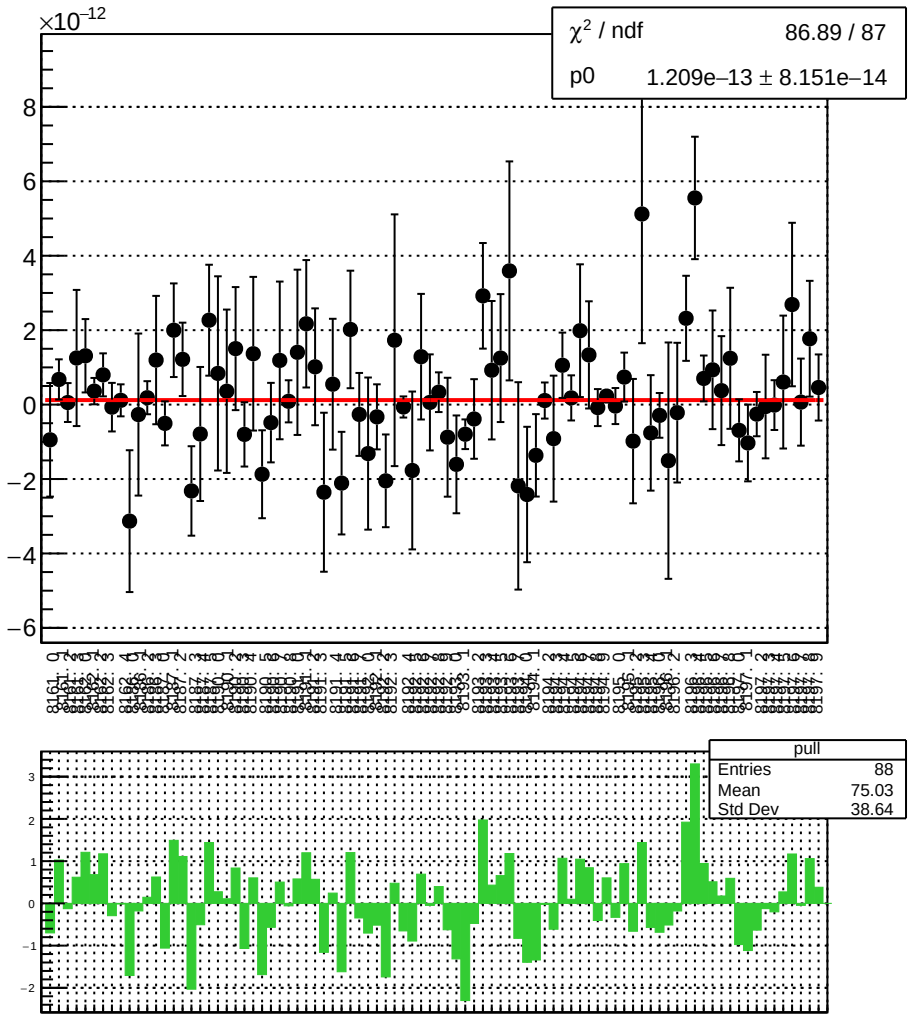

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.475e+05 / 87
p0 22.19 ± 0.018
40
35
30
25
20
15
10

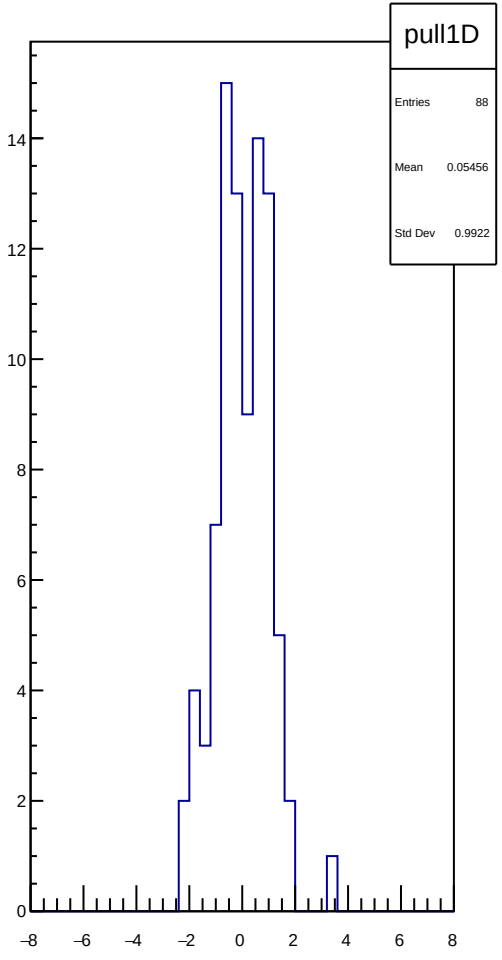

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.25 / 87
p0 0.02073 ± 0.02546
pull
Entries 88
Mean 85.54
Std Dev 0
pull1D
Entries 88
Mean 0.03521
Std Dev 1.001

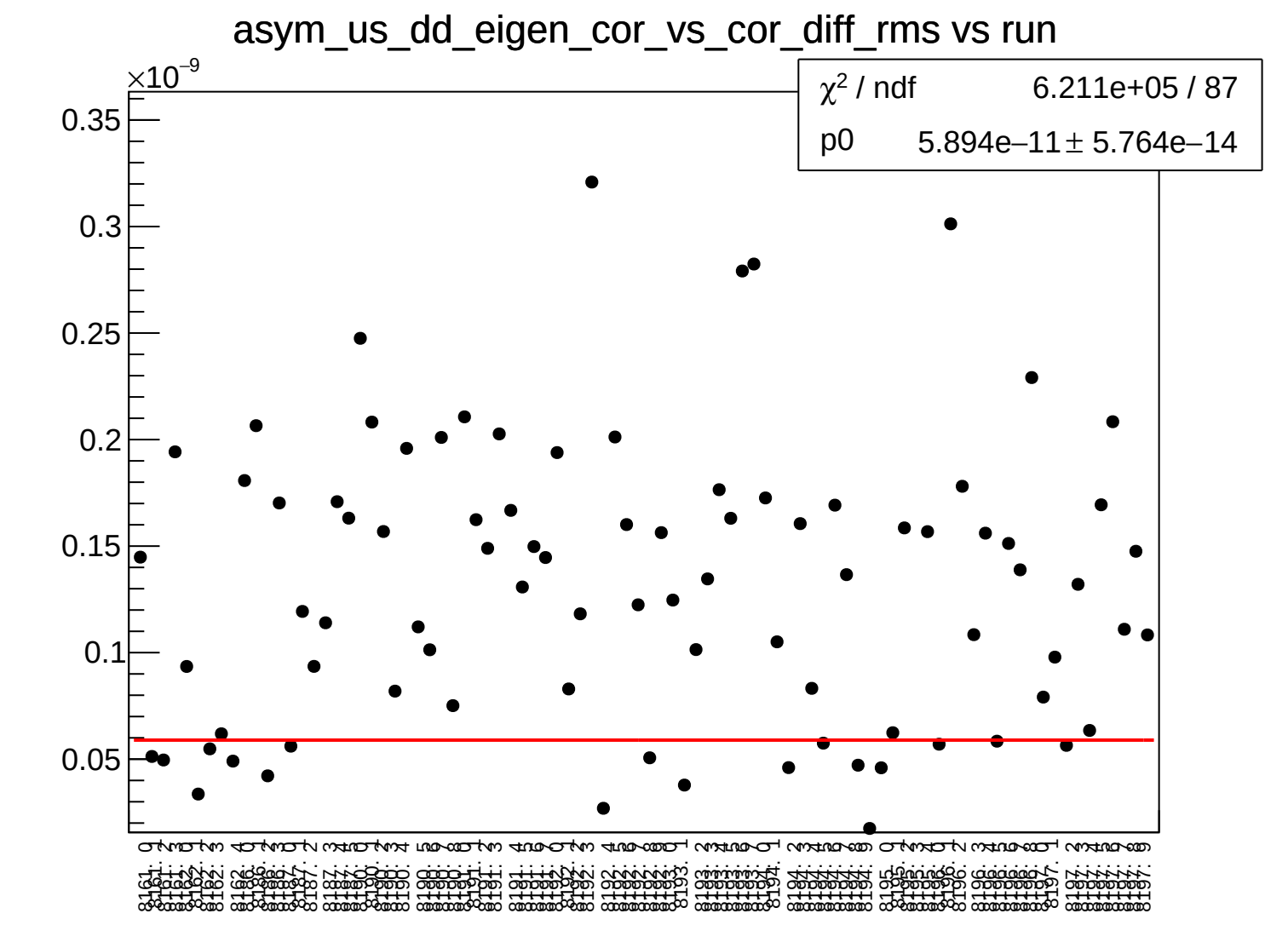

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.475e+05 / 87
p0 22.19 ± 0.018
40
35
30
25
20
15
10

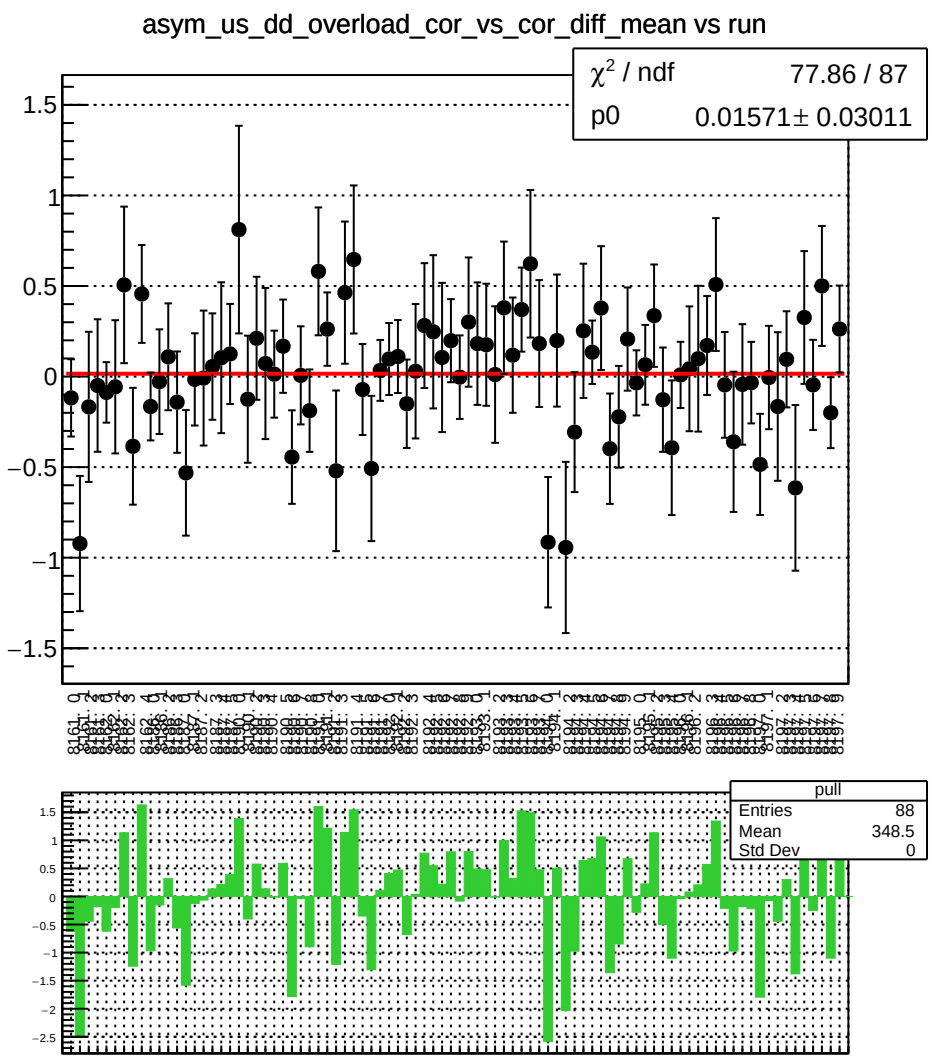

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 89.17 / 87
p0 0.02204 ± 0.04175
pull
Entries 88
Mean 116.3
Std Dev 0
pull1D
Entries 88
Mean −0.003589
Std Dev 1.007

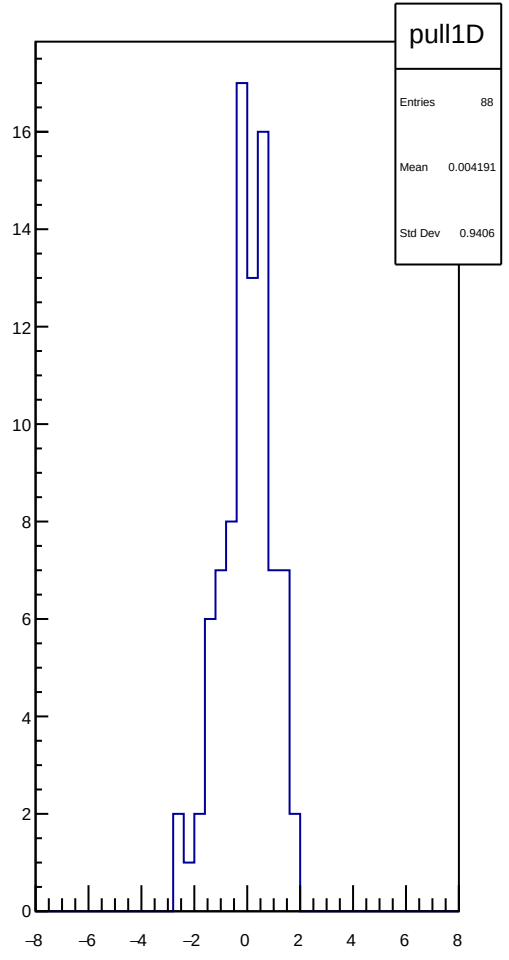

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.479e+04 / 87
p0 37.25 ± 0.02952
70
60
50
40
30
20

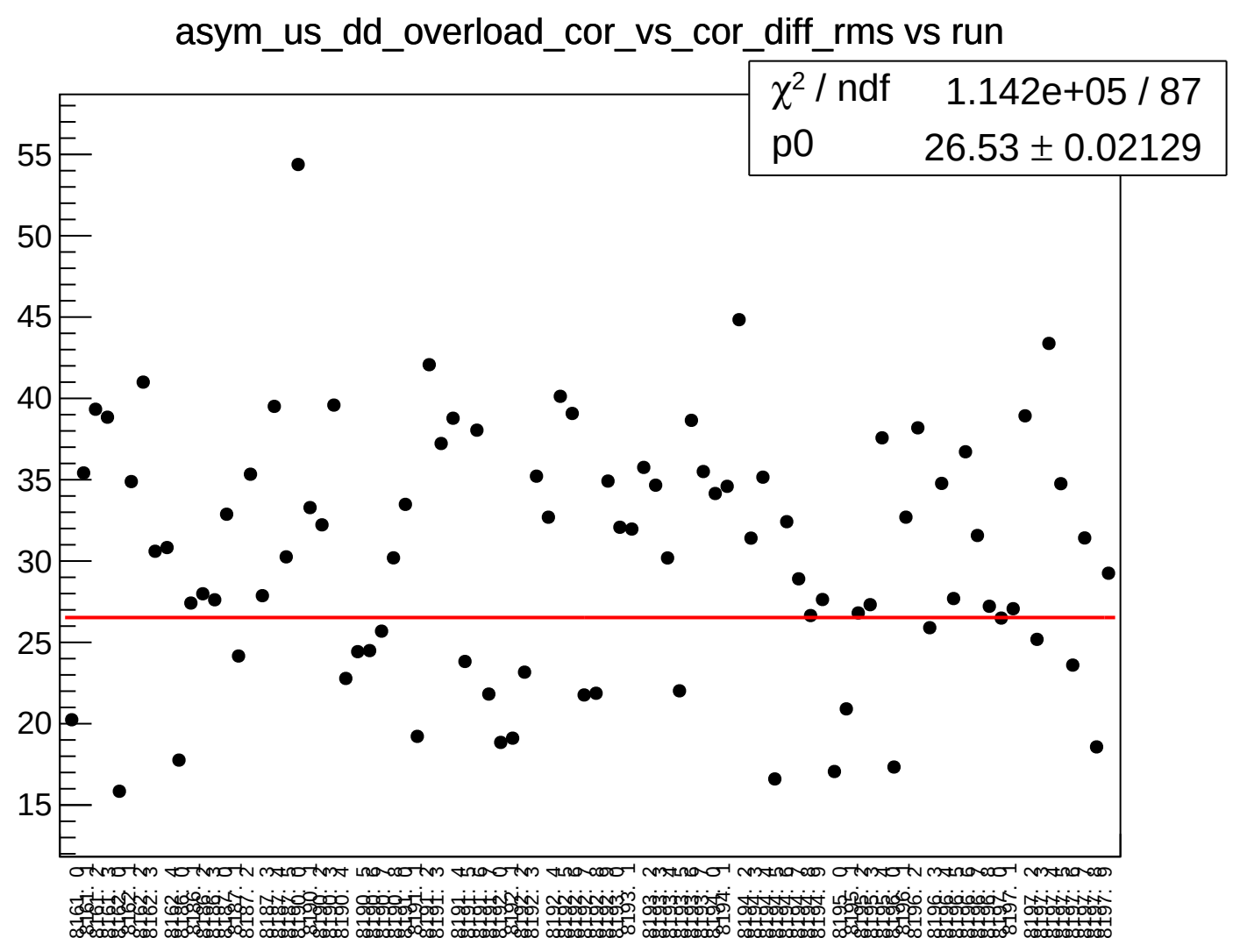

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.89 / 87
p0 1.209e−13 ± 8.151e−14
pull
Entries 88
Mean 75.03
Std Dev 38.64

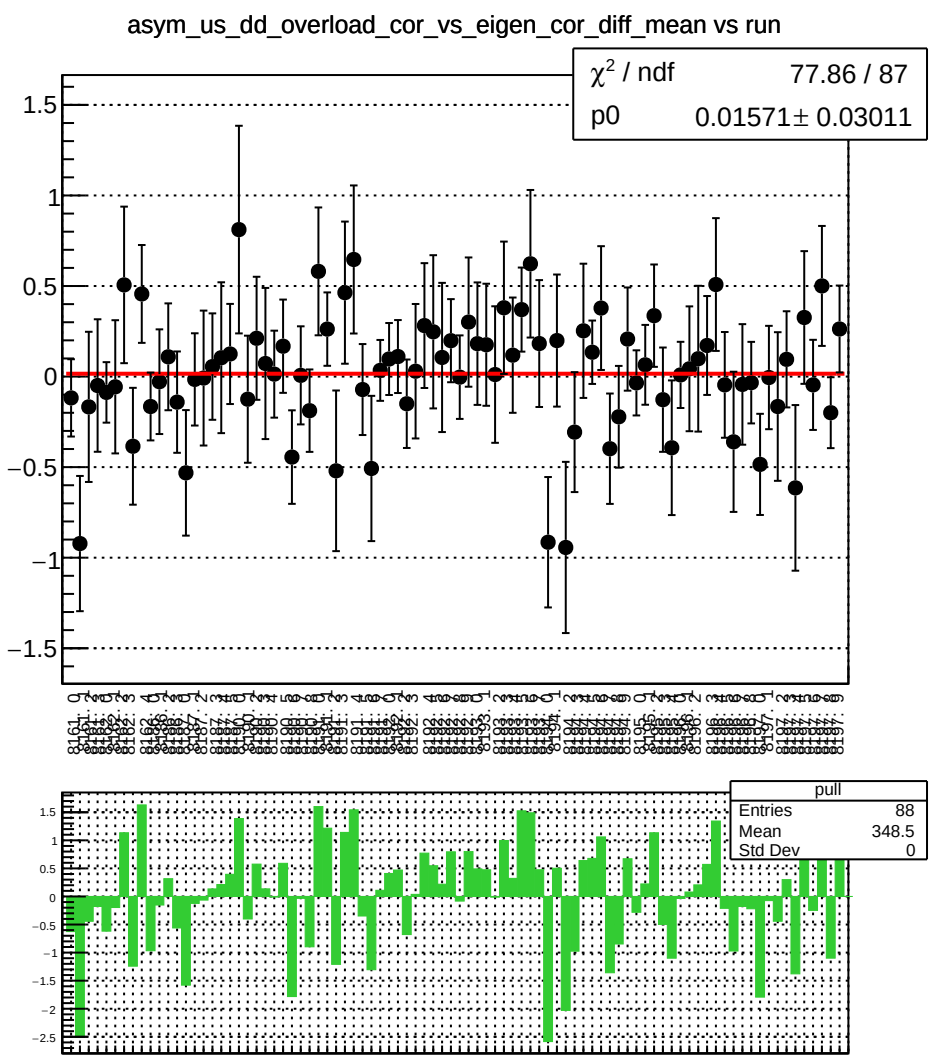

pull1D
Entries 88
Mean 0.05456
Std Dev 0.9922

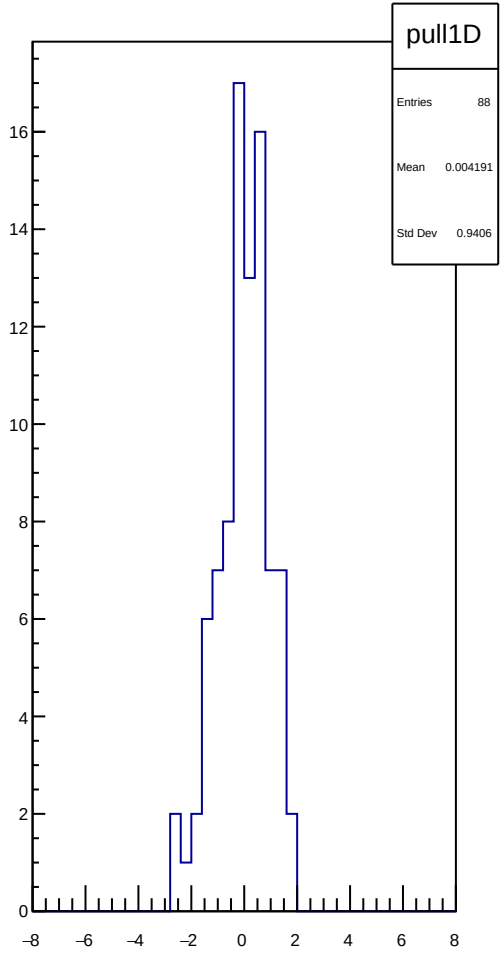

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.211e+05 / 87
p0 5.894e−11 ± 5.764e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

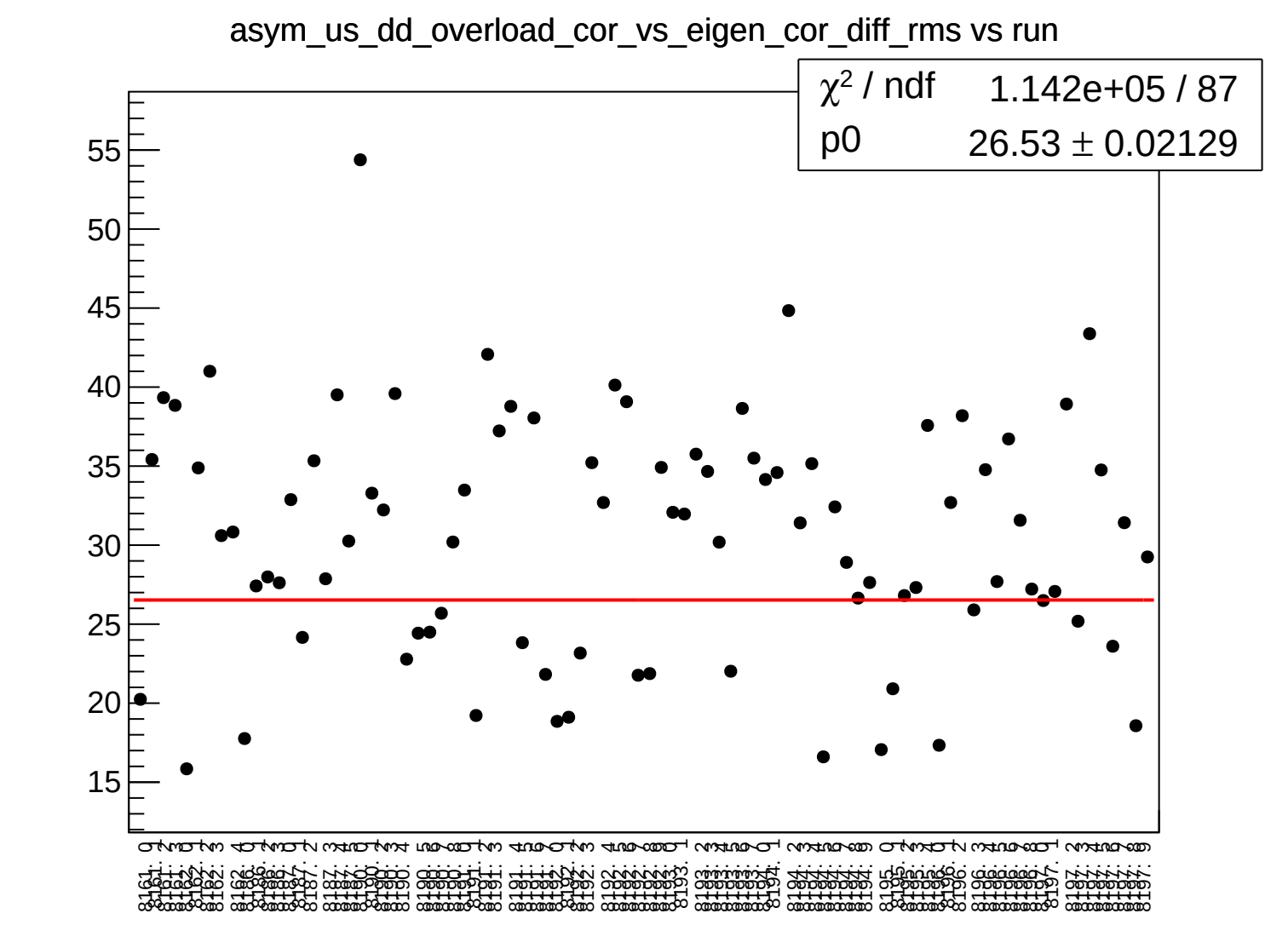

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 77.86 / 87
p0 0.01571± 0.03011
pull
Entries 88
Mean 348.5
Std Dev 0

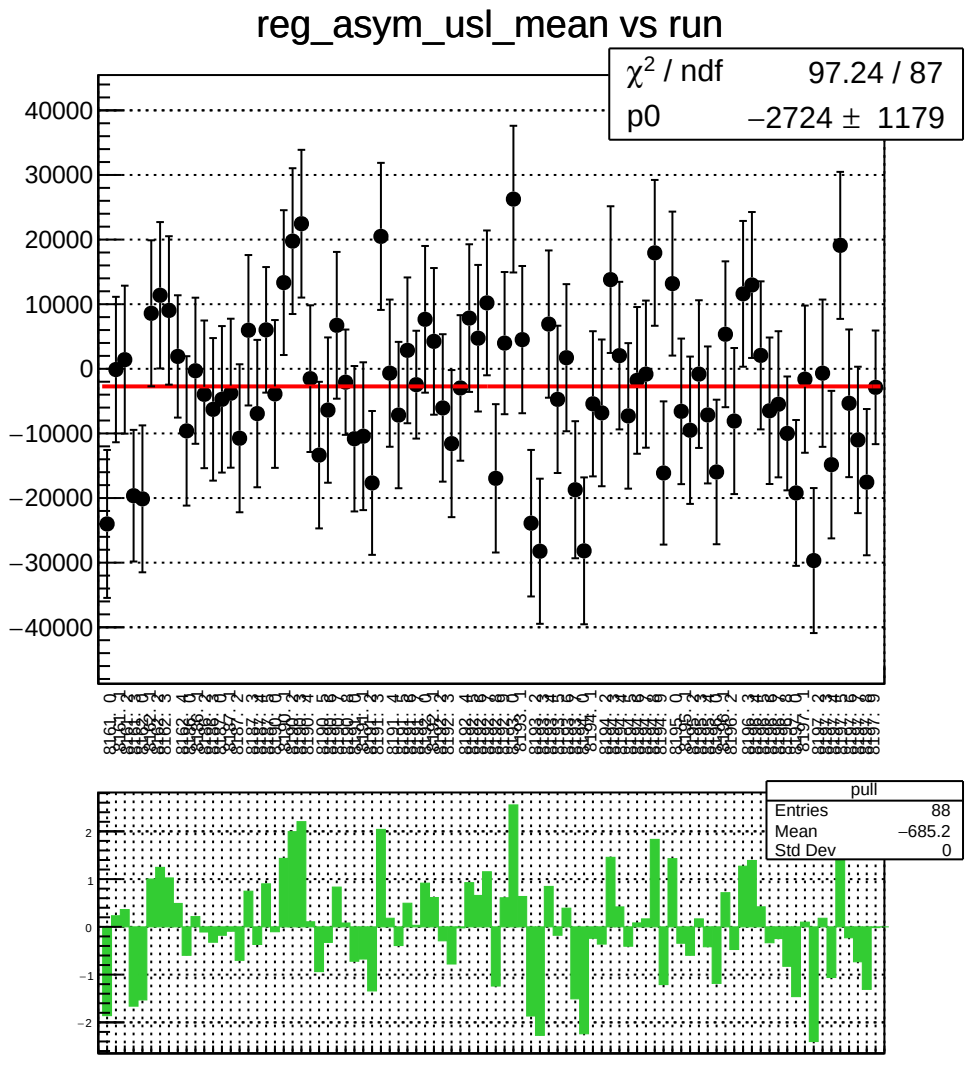

pull1D
Entries 88
Mean 0.004191
Std Dev 0.9406

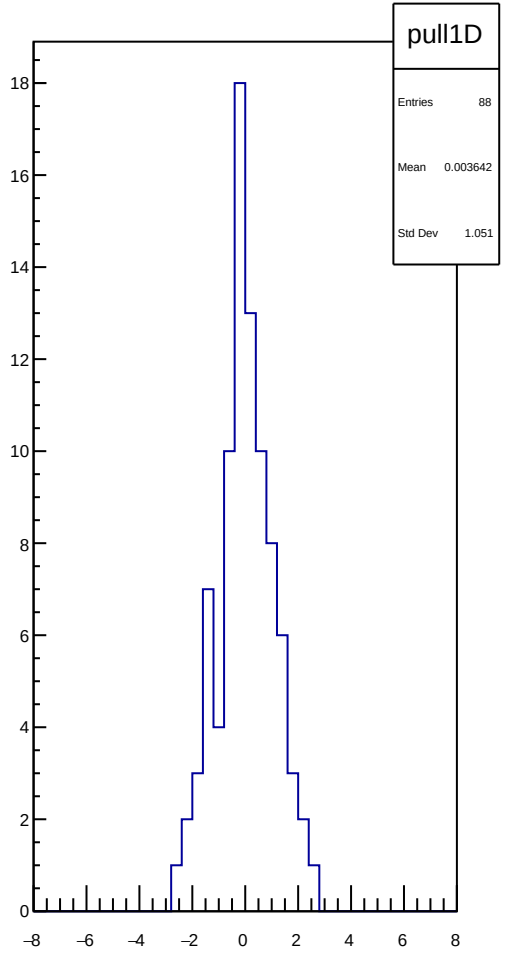

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.142e+05 / 87
p0 26.53 ± 0.02129
55
50
45
40
35
30
25
20
15

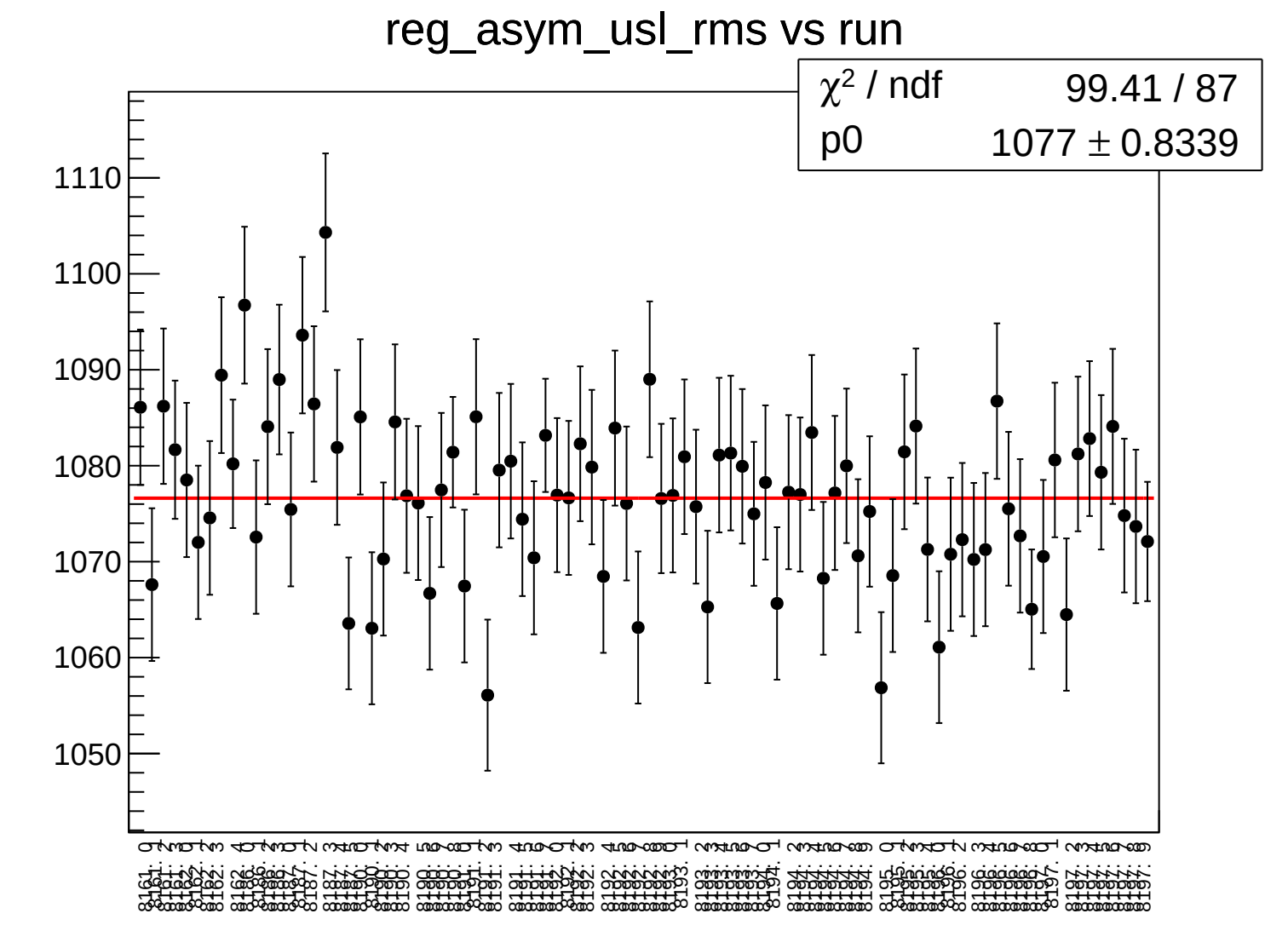

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.86 / 87
p0 0.01571± 0.03011
pull
Entries 88
Mean 348.5
Std Dev 0

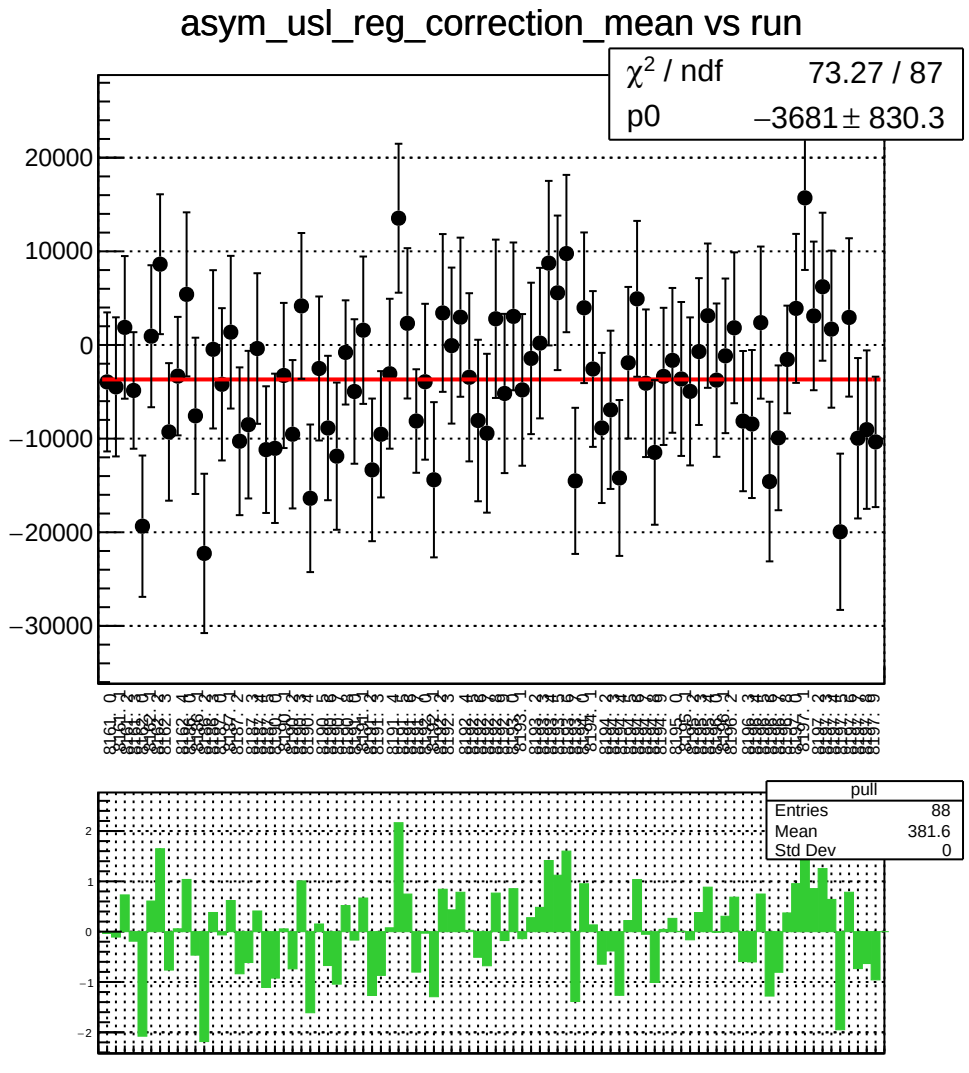

pull1D
Entries 88
Mean 0.004191
Std Dev 0.9406

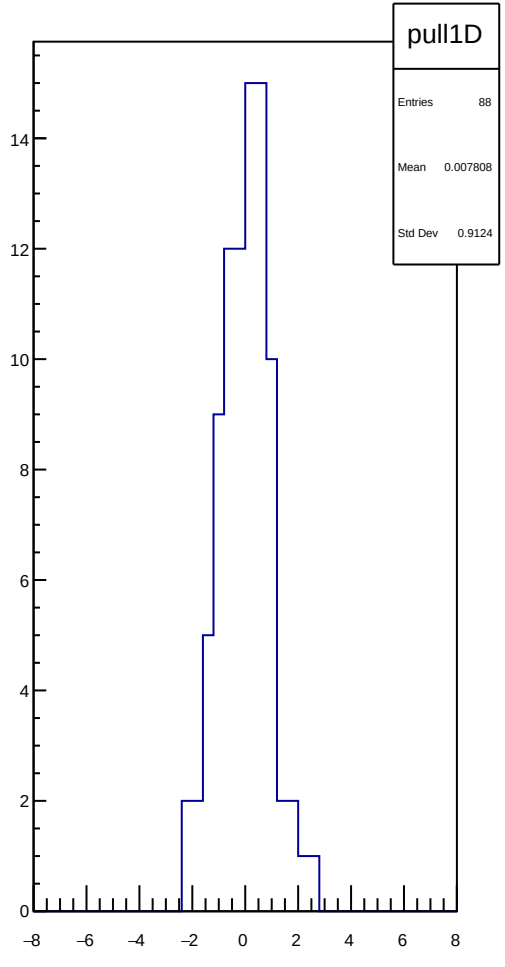

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.142e+05 / 87
p0 26.53 ± 0.02129
55
50
45
40
35
30
25
20
15

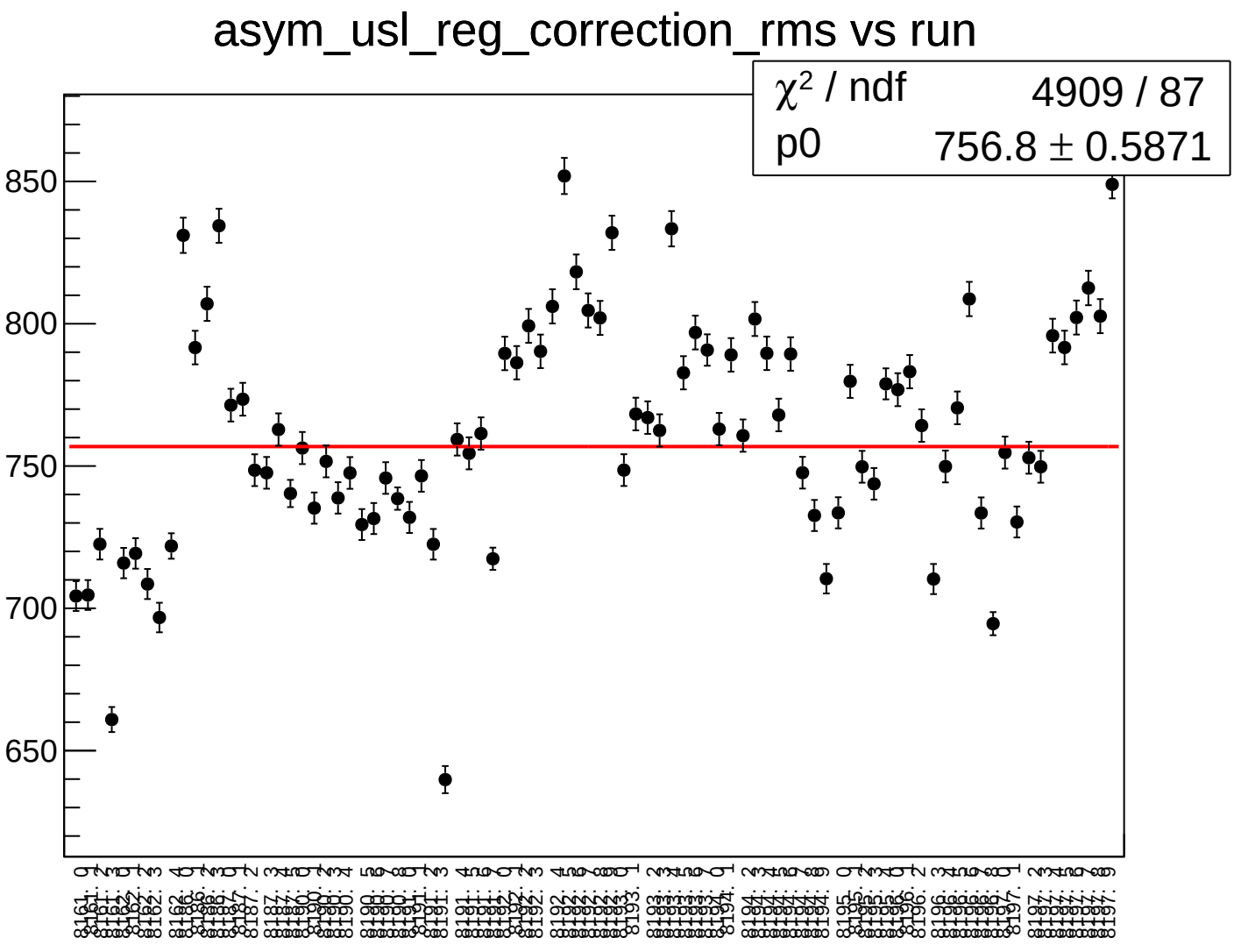

reg_asym_usl_mean vs run
χ² / ndf 97.24 / 87
p0 −2724 ± 1179
pull
Entries 88
Mean −685.2
Std Dev 0

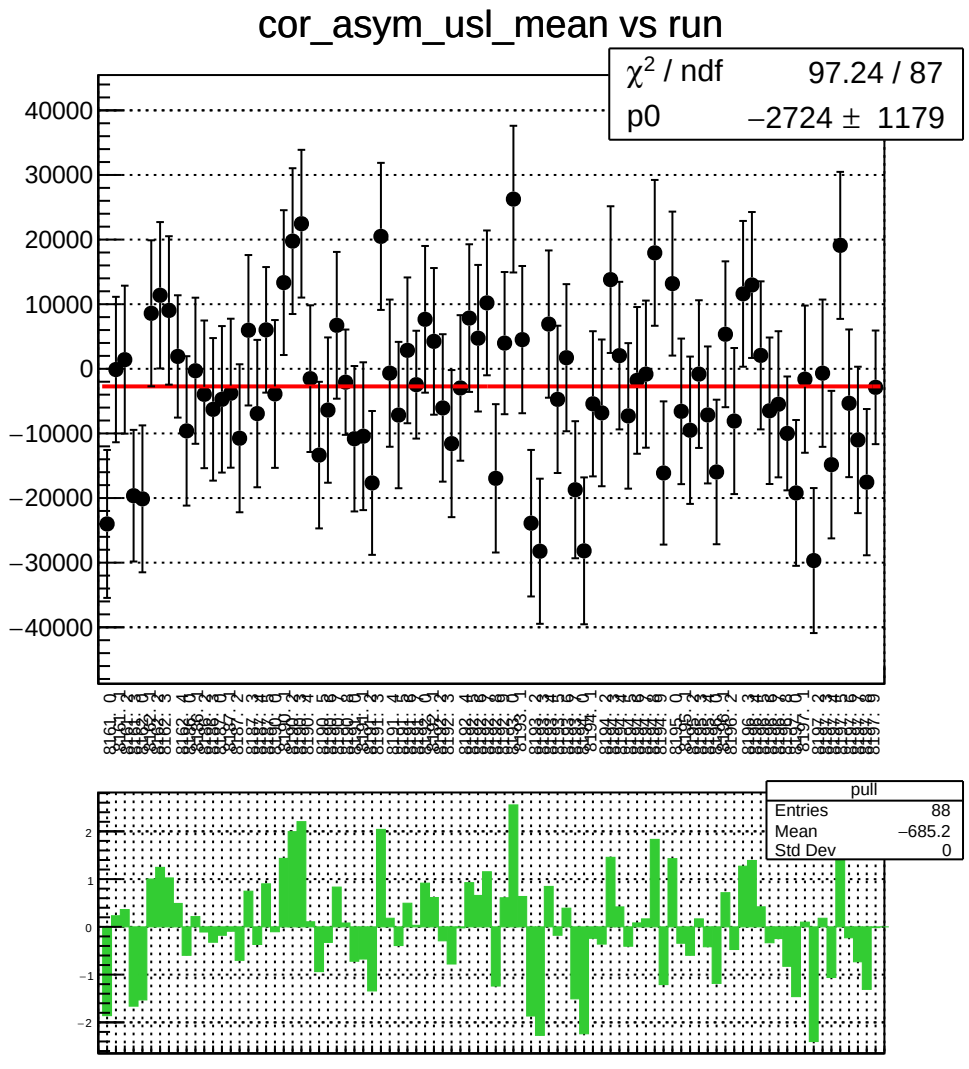

pull1D
Entries 88
Mean 0.003642
Std Dev 1.051

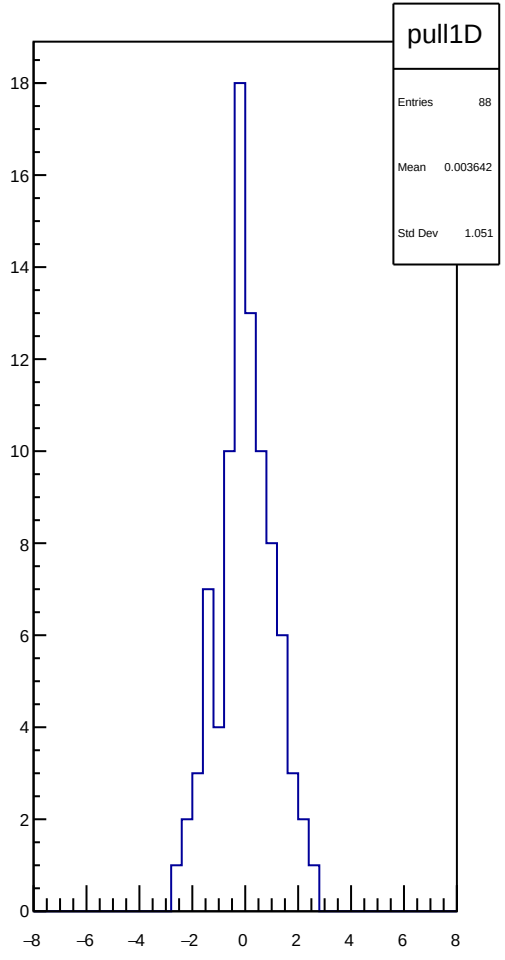

reg_asym_usl_rms vs run
χ² / ndf 99.41 / 87
p0 1077 ± 0.8339
1110
1100
1090
1080
1070
1060
1050

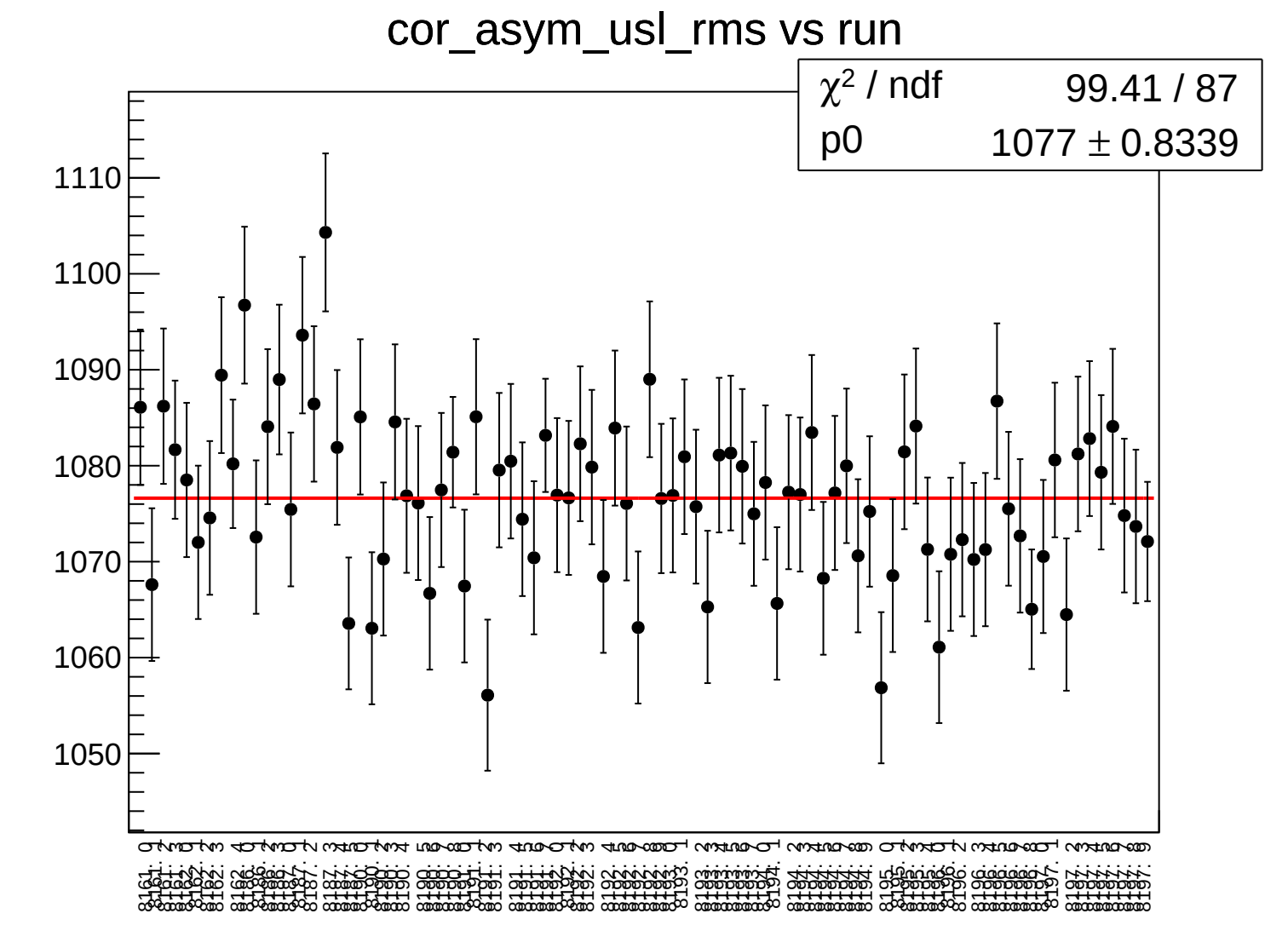

asym_usl_reg_correction_mean vs run
χ² / ndf 73.27 / 87
p0 −3681 ± 830.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 381.6
Std Dev 0
2
1
0
−1
−2

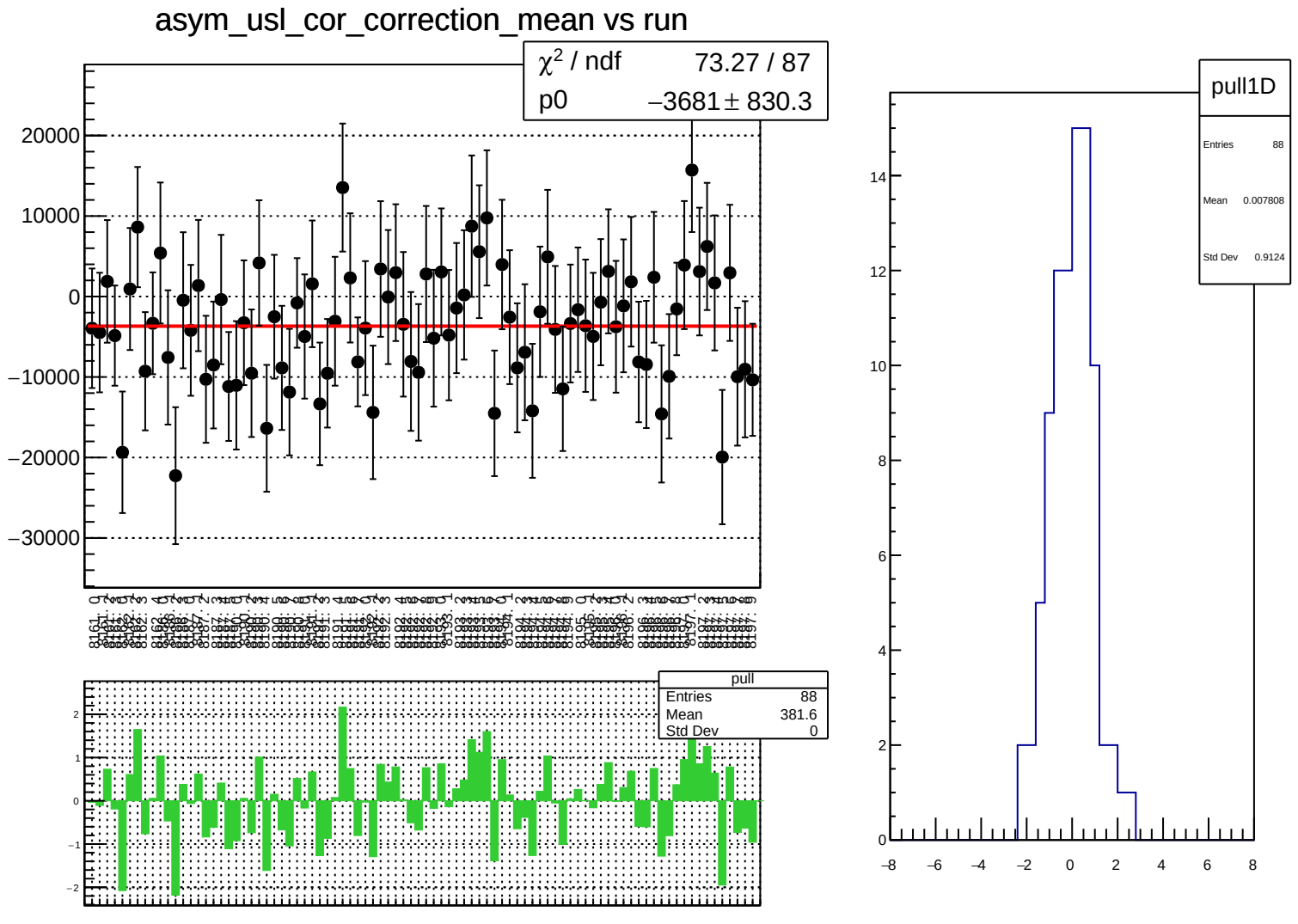

pull1D
Entries 88
Mean 0.007808
Std Dev 0.9124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

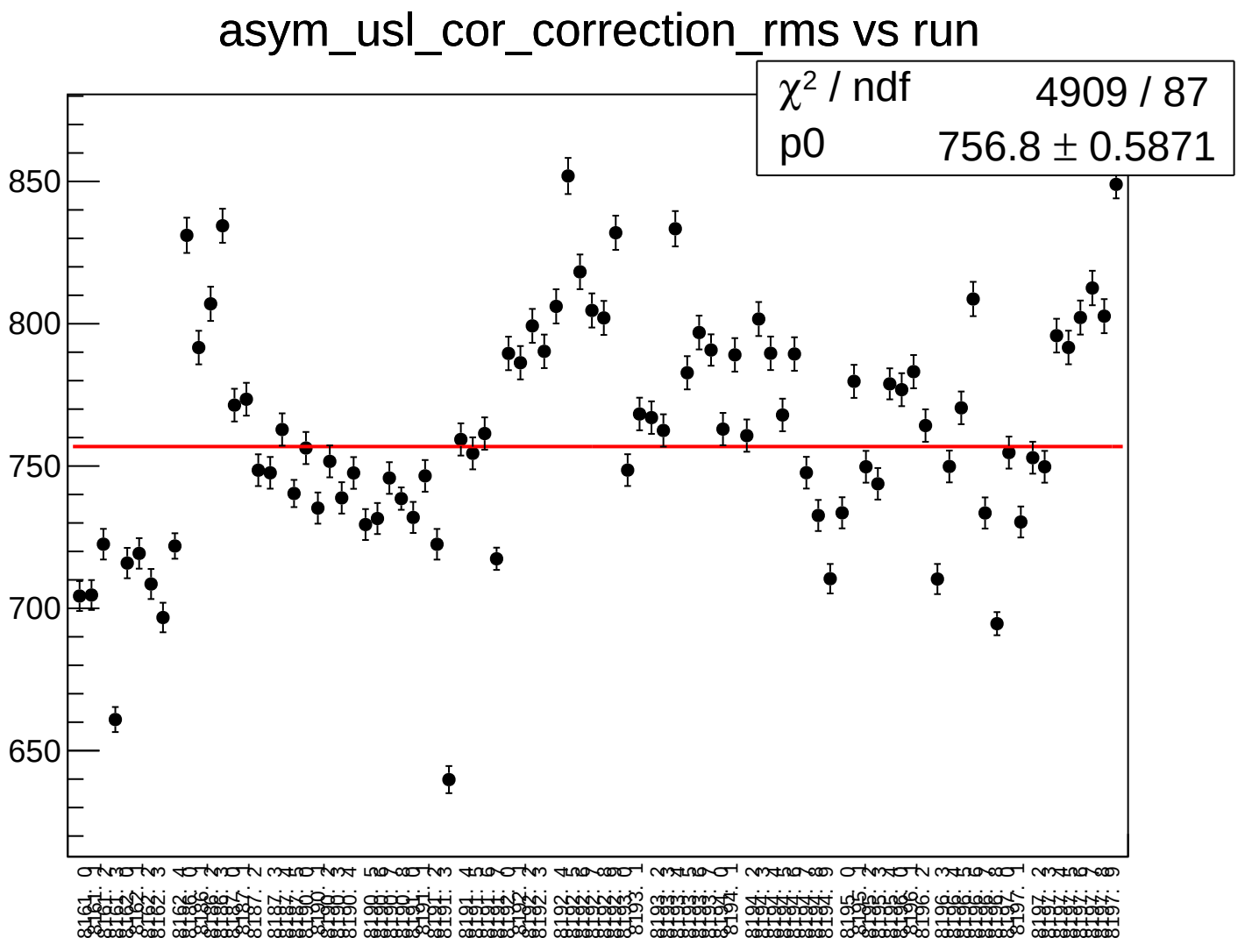

asym_usl_reg_correction_rms vs run
χ² / ndf 4909 / 87
p0 756.8 ± 0.5871
850
800
750
700
650

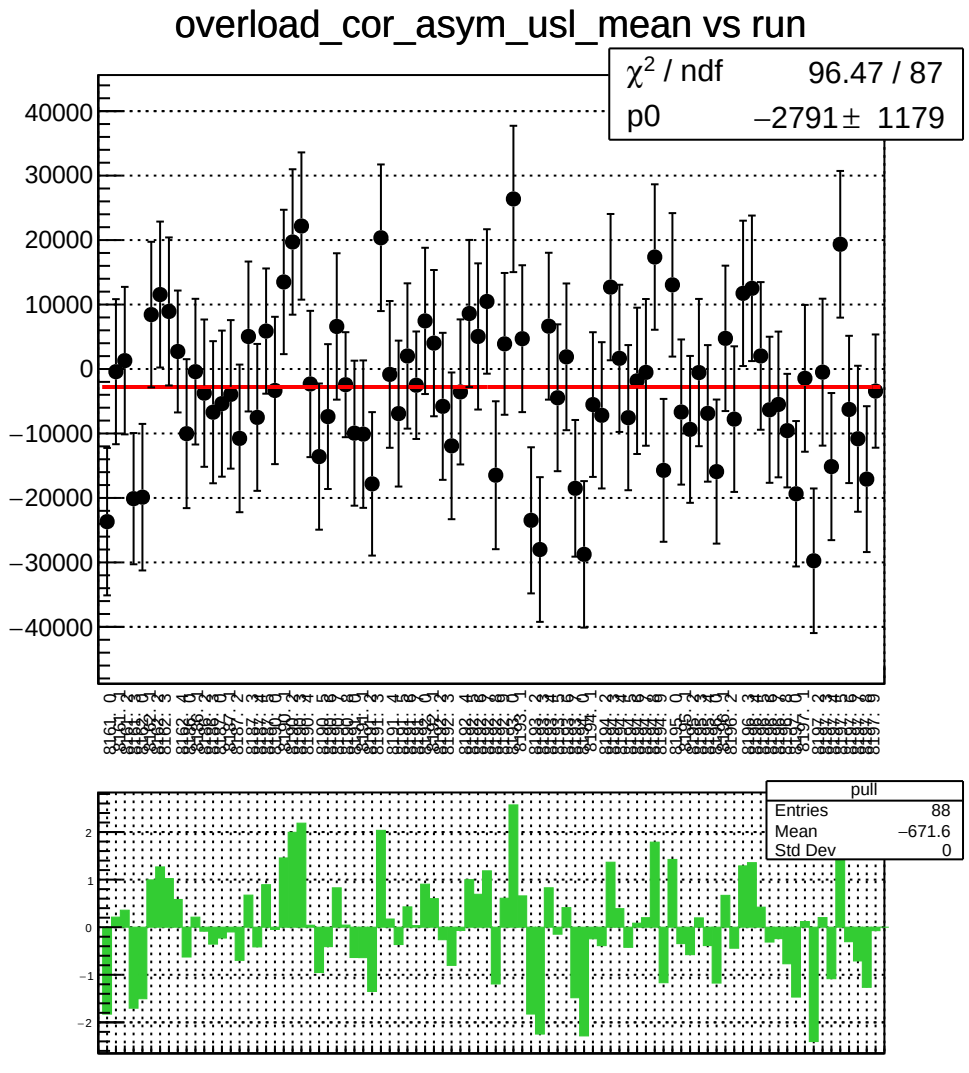

cor_asym_usl_mean vs run
χ² / ndf 97.24 / 87
p0 −2724 ± 1179
pull
Entries 88
Mean −685.2
Std Dev 0

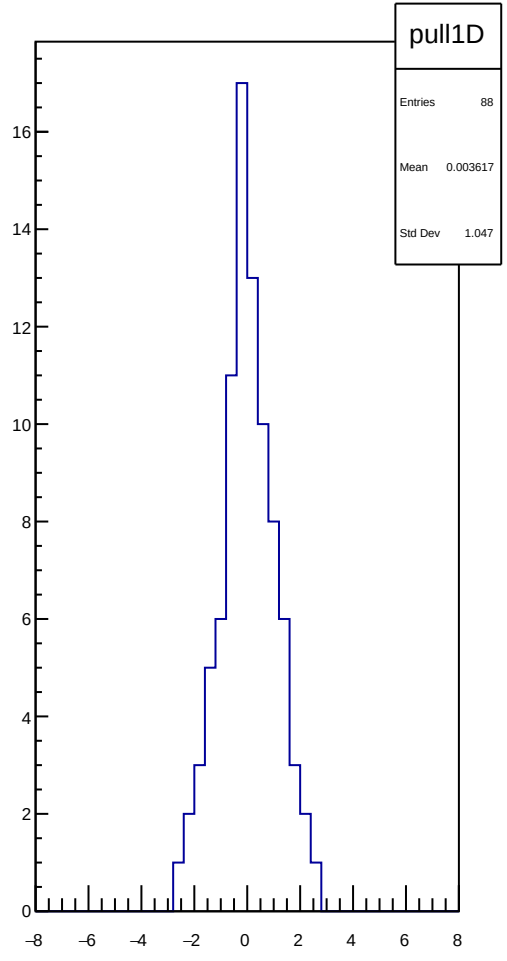

pull1D
Entries 88
Mean 0.003642
Std Dev 1.051

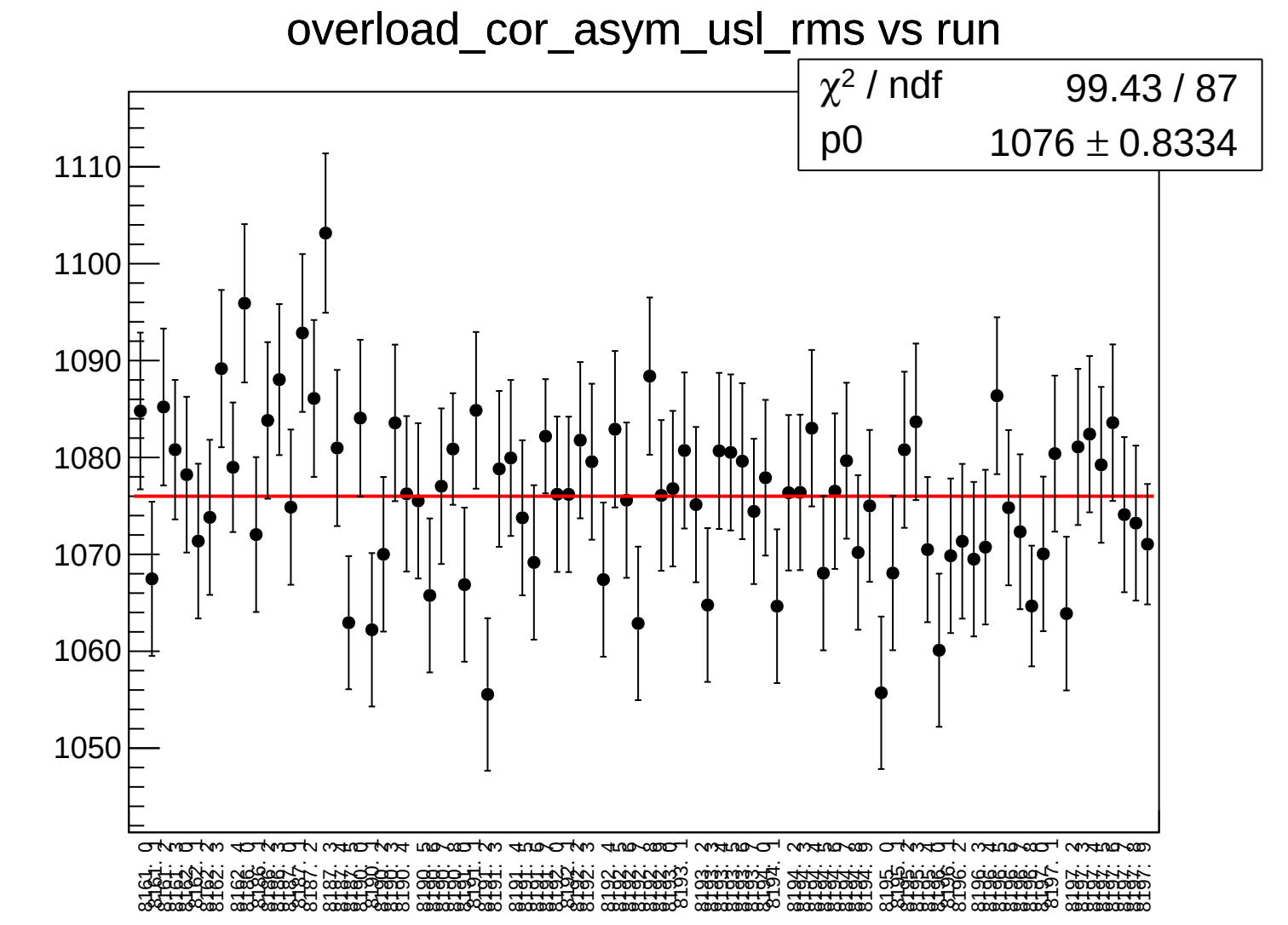

cor_asym_usl_rms vs run
χ² / ndf 99.41 / 87
p0 1077 ± 0.8339
1110
1100
1090
1080
1070
1060
1050

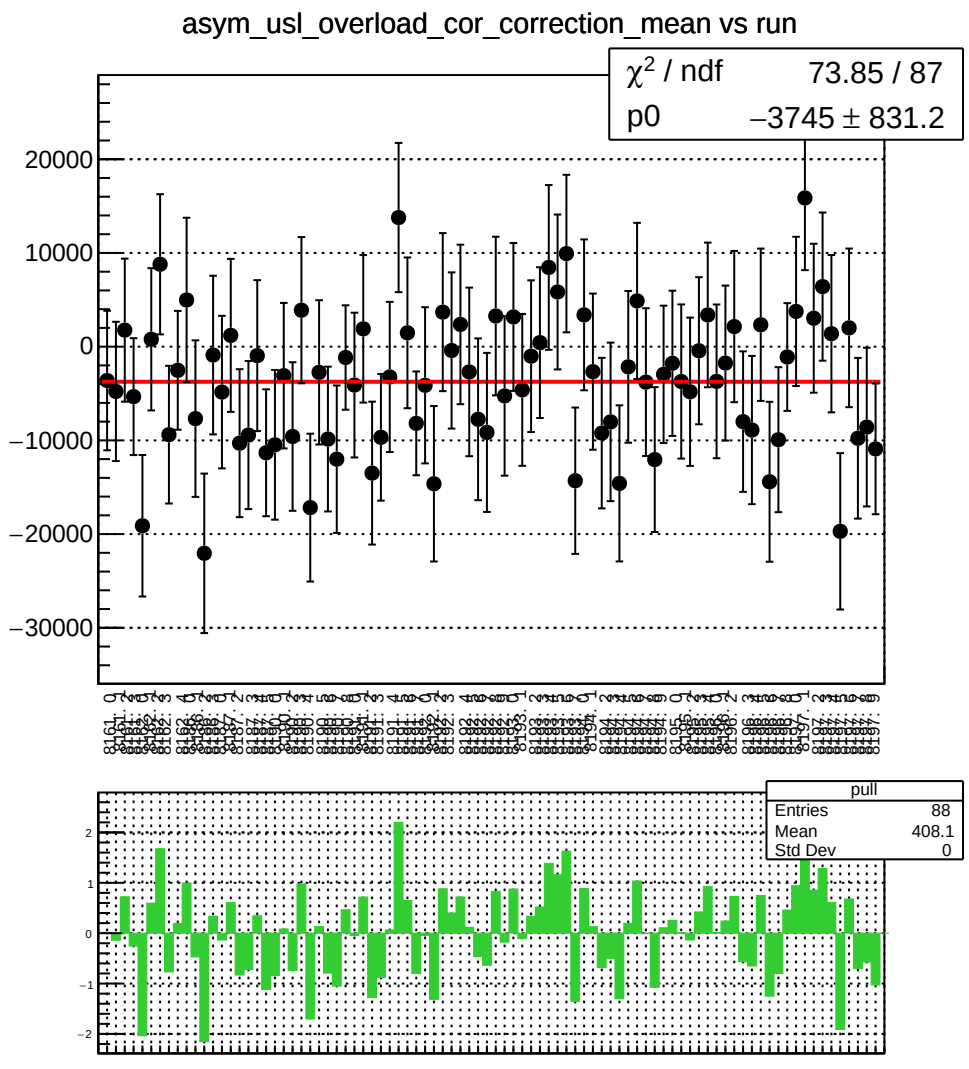

asym_usl_cor_correction_mean vs run
χ² / ndf 73.27 / 87
p0 −3681 ± 830.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 381.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007808
Std Dev 0.9124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

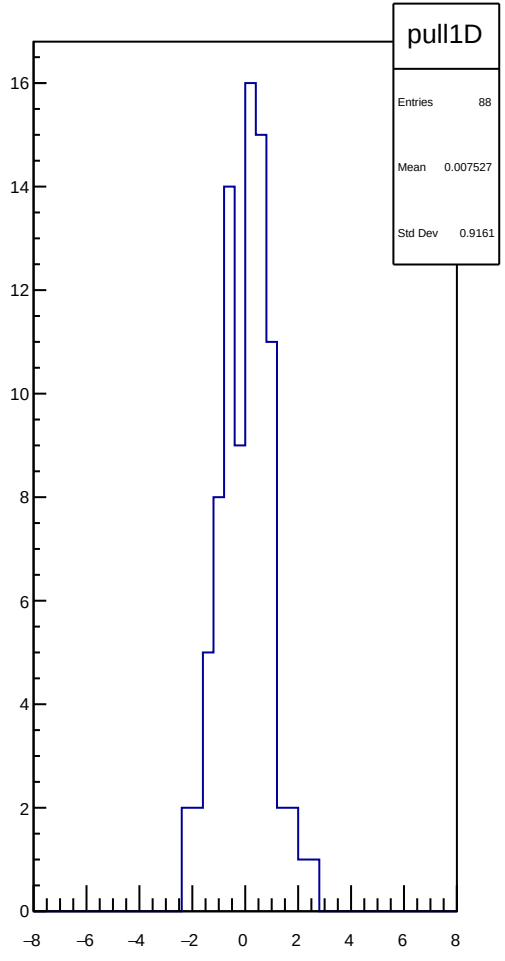

asym_usl_cor_correction_rms vs run
χ² / ndf 4909 / 87
p0 756.8 ± 0.5871
850
800
750
700
650

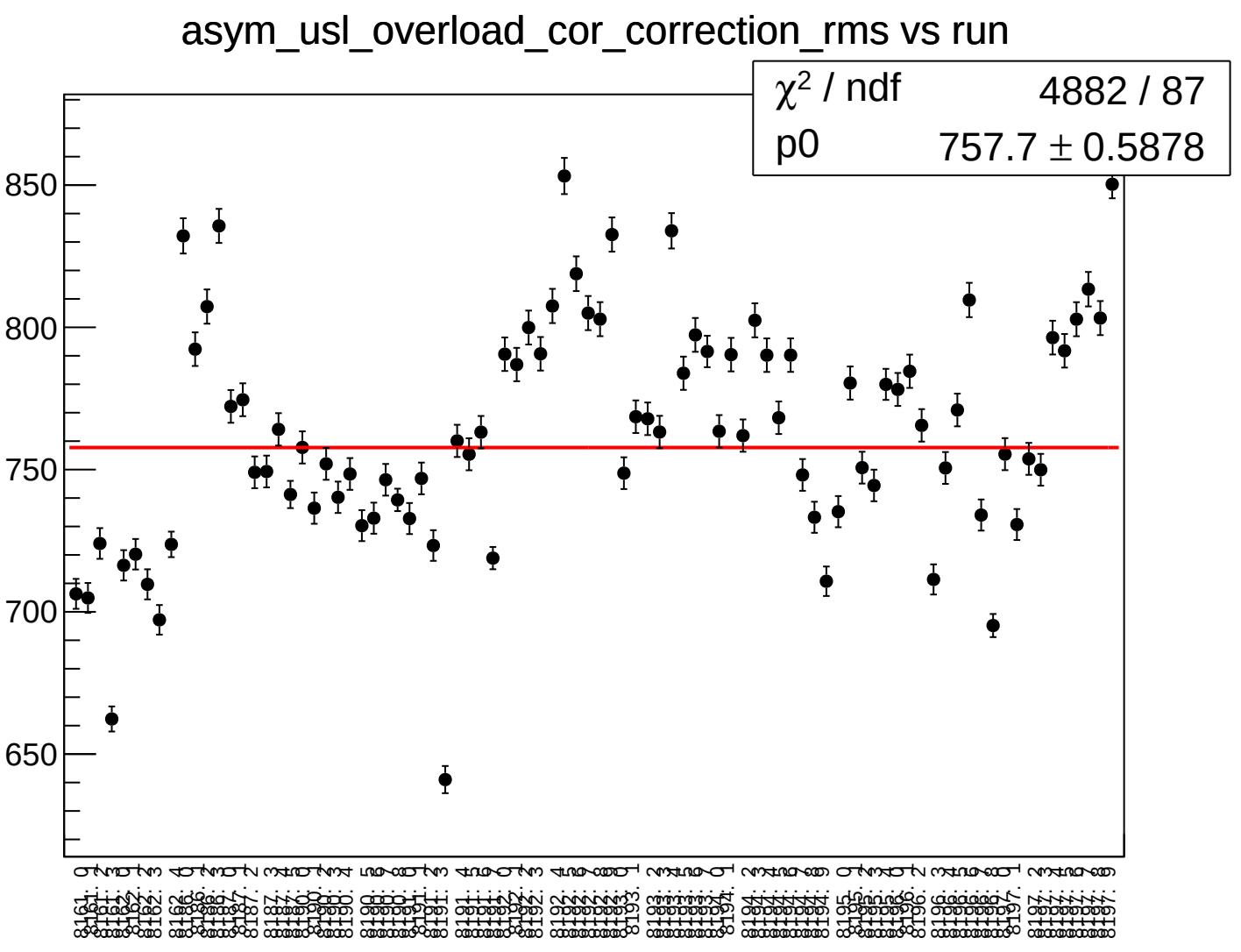

overload_cor_asym_usl_mean vs run
χ² / ndf 96.47 / 87
p0 −2791 ± 1179
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −671.6
Std Dev 0
2
1
0
−1
−2

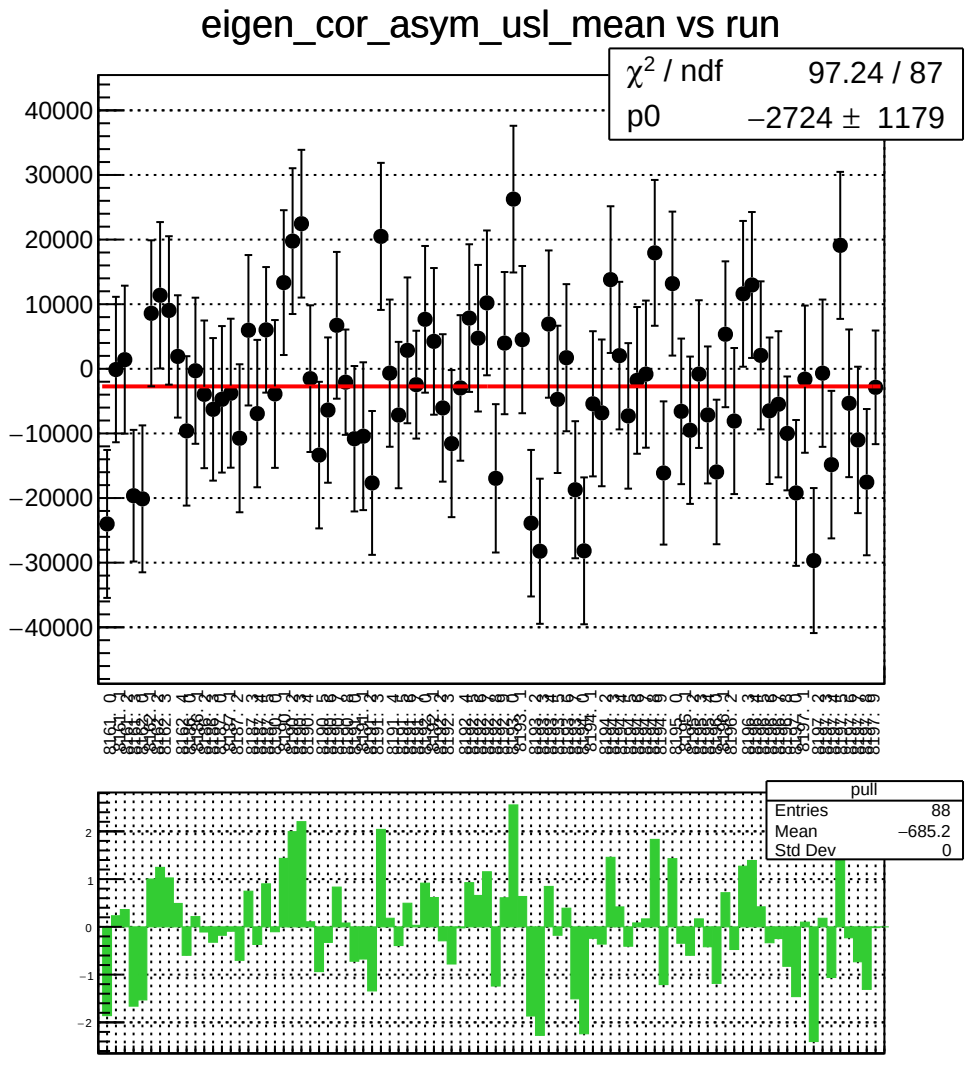

pull1D
Entries 88
Mean 0.003617
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

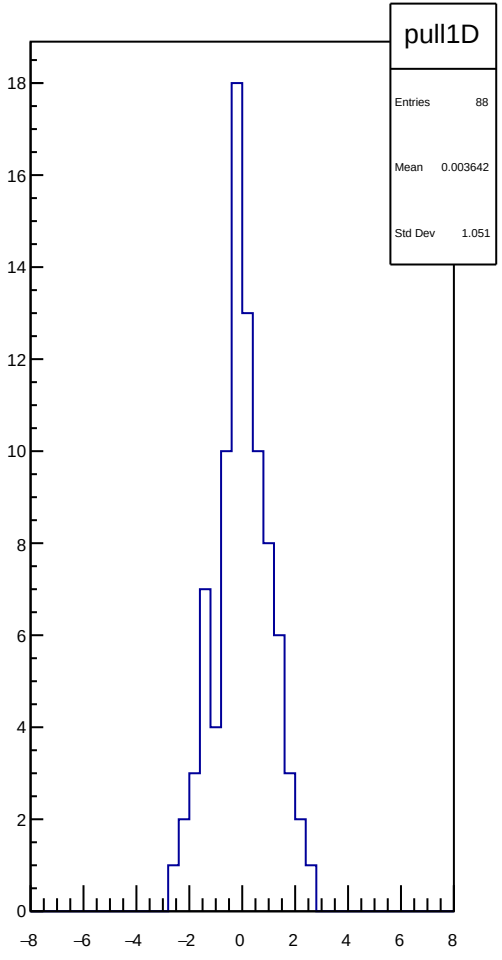

overload_cor_asym_usl_rms vs run
χ² / ndf 99.43 / 87
p0 1076 ± 0.8334
1110
1100
1090
1080
1070
1060
1050

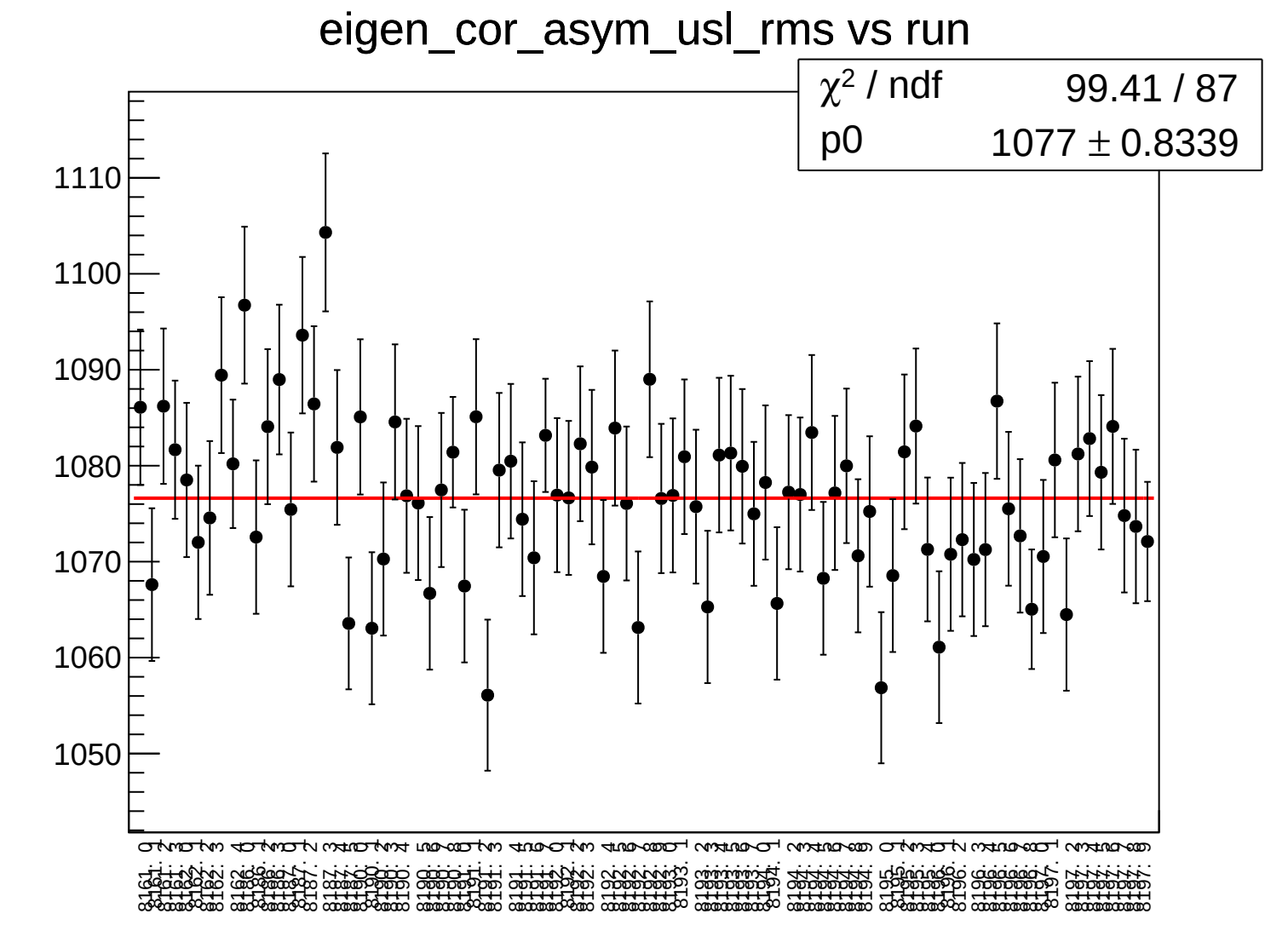

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 73.85 / 87
p0 −3745 ± 831.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 408.1
Std Dev 0
2
1
0
−1
−2

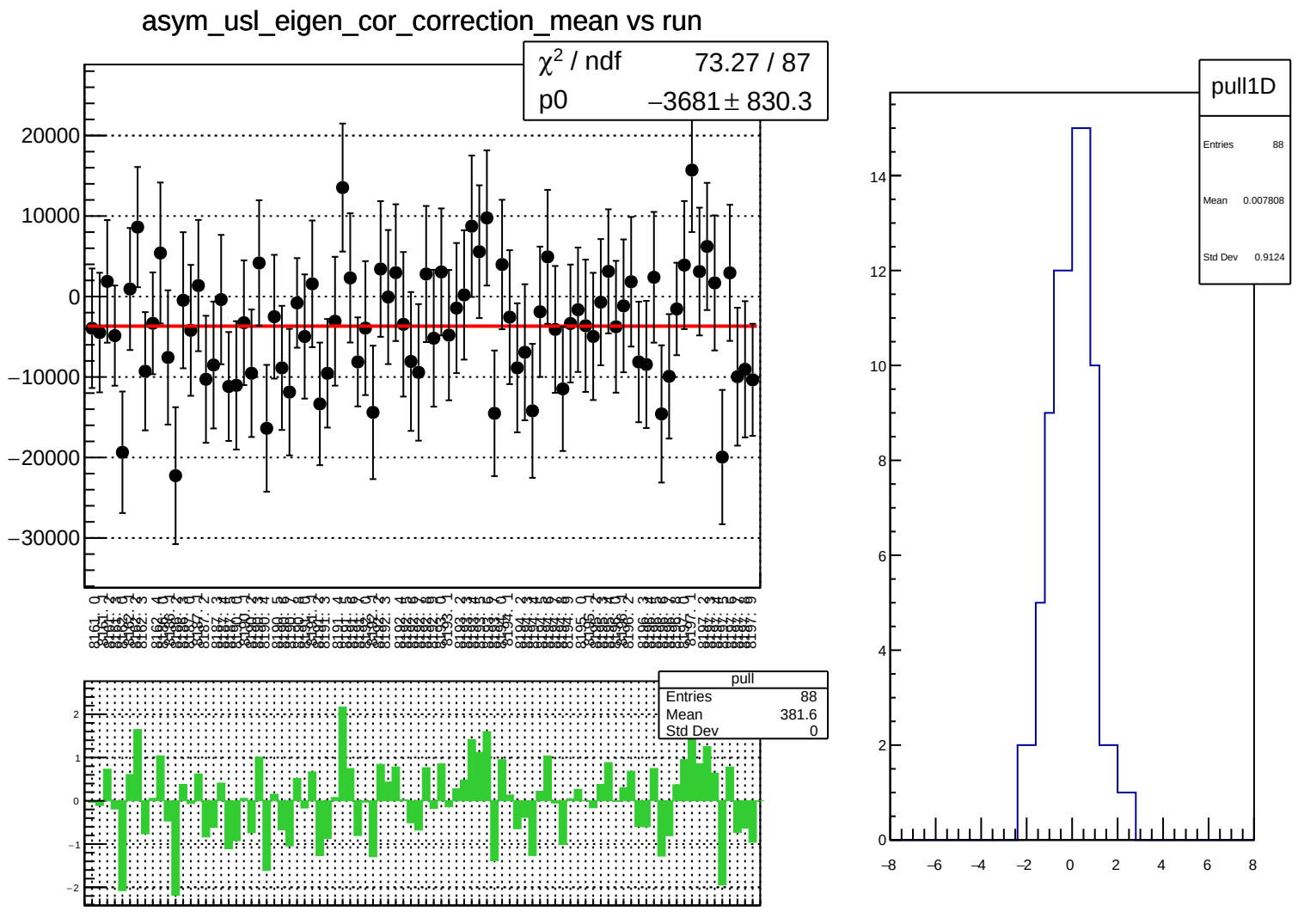

pull1D
Entries 88
Mean 0.007527
Std Dev 0.9161
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

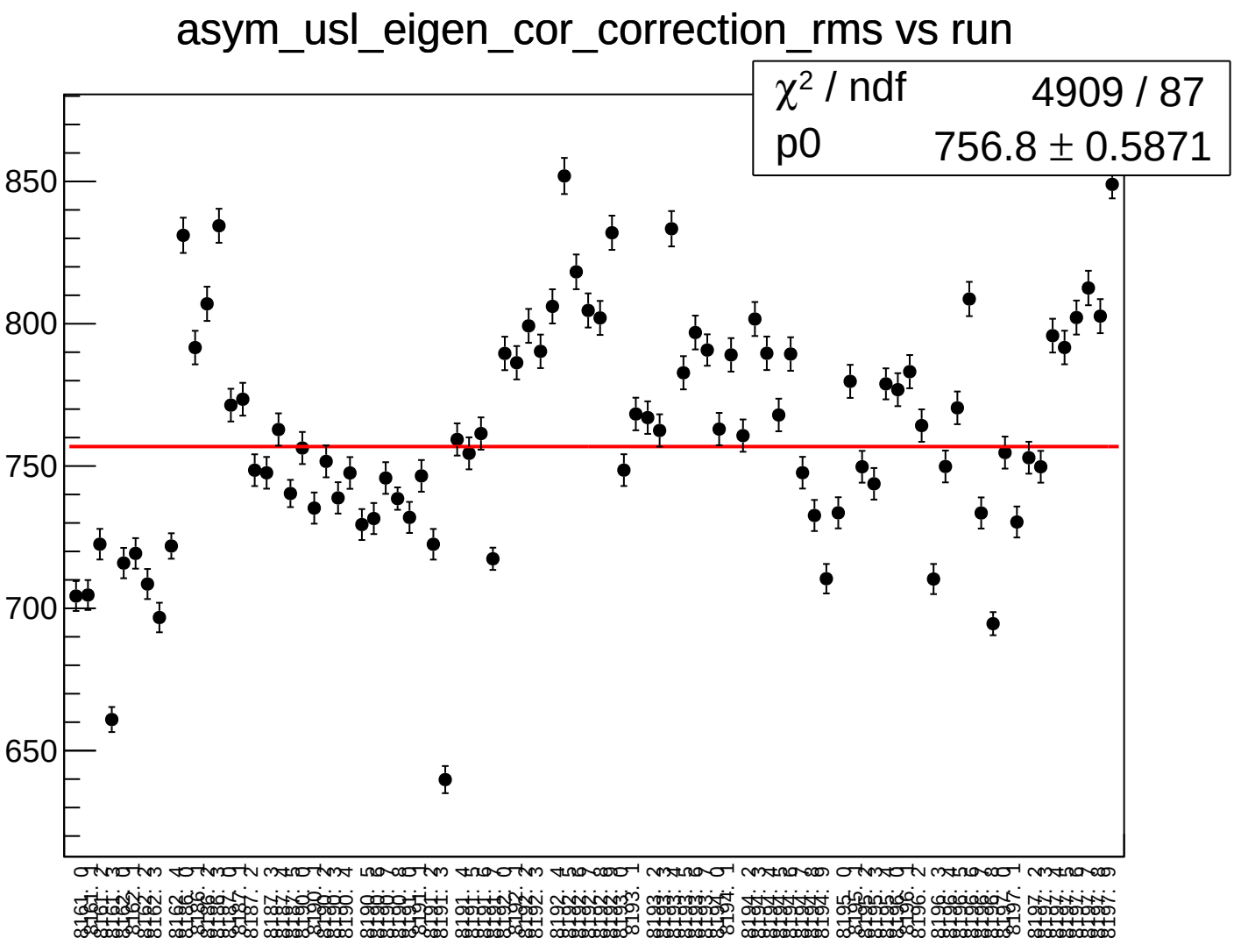

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 4882 / 87
p0 757.7 ± 0.5878
850
800
750
700
650

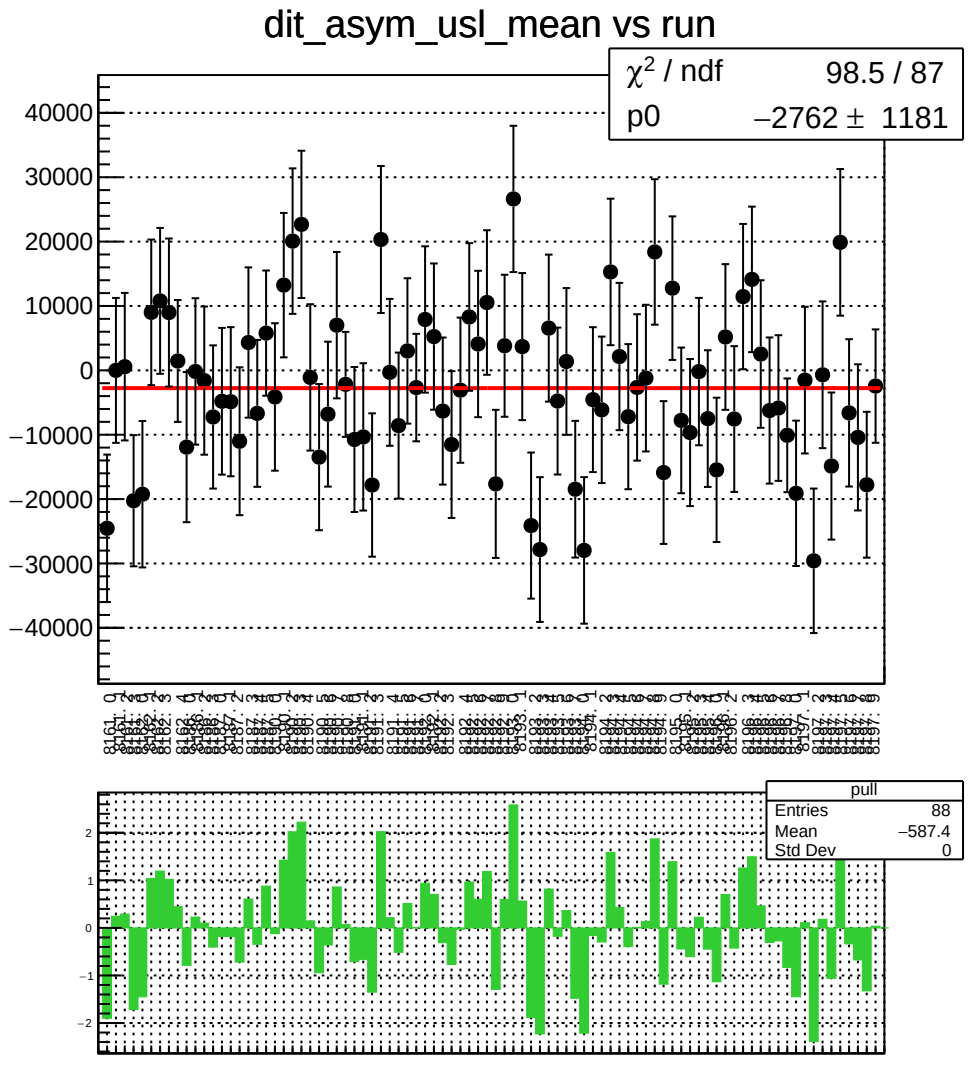

eigen_cor_asym_usl_mean vs run
χ² / ndf 97.24 / 87
p0 −2724 ± 1179
pull
Entries 88
Mean −685.2
Std Dev 0

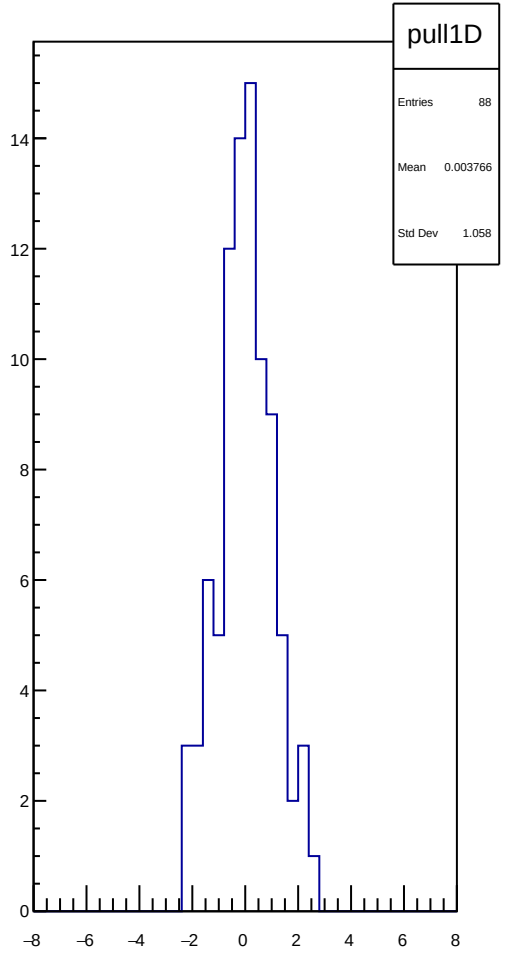

pull1D
Entries 88
Mean 0.003642
Std Dev 1.051

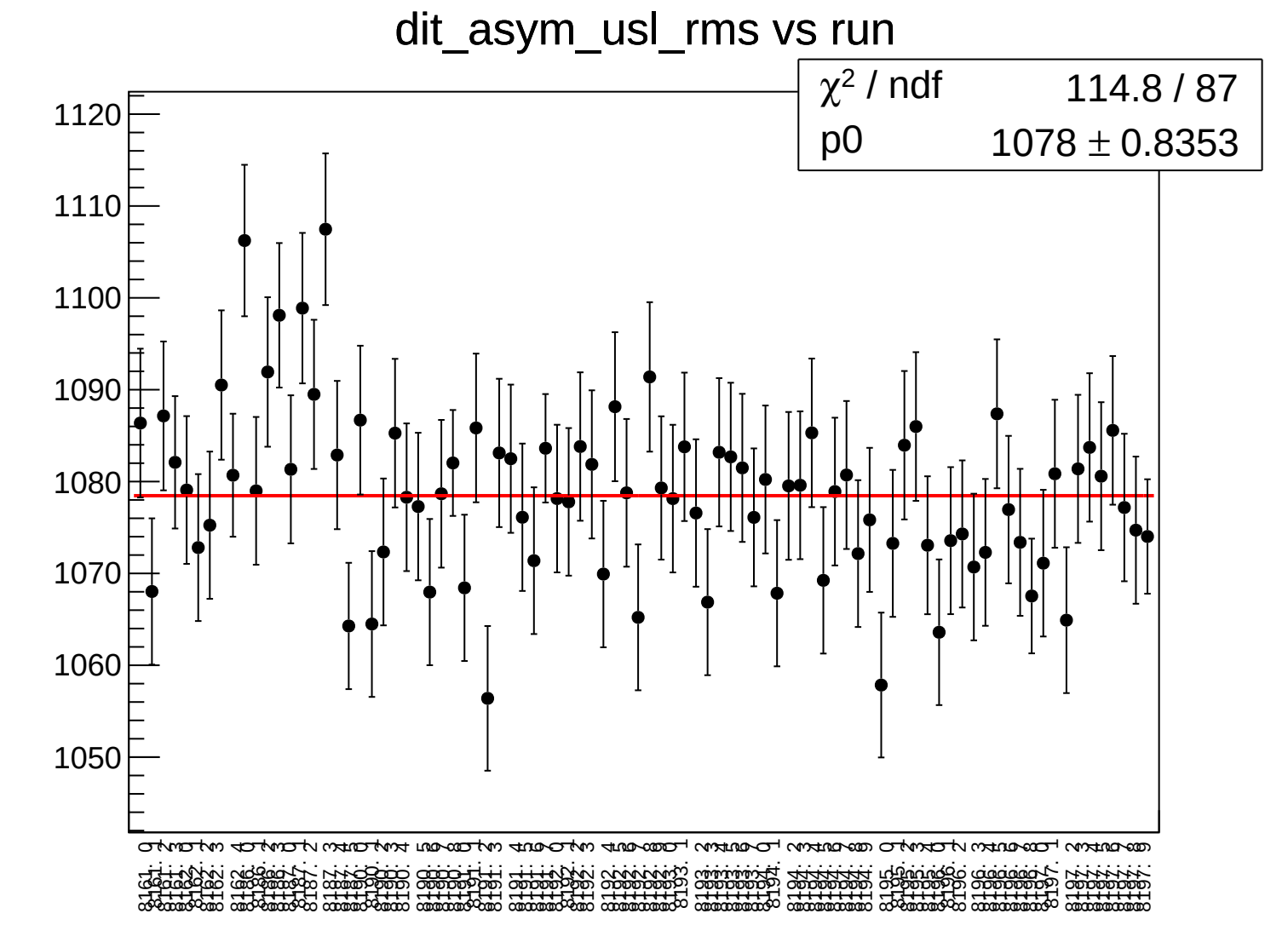

eigen_cor_asym_usl_rms vs run
χ² / ndf 99.41 / 87
p0 1077 ± 0.8339
1110
1100
1090
1080
1070
1060
1050

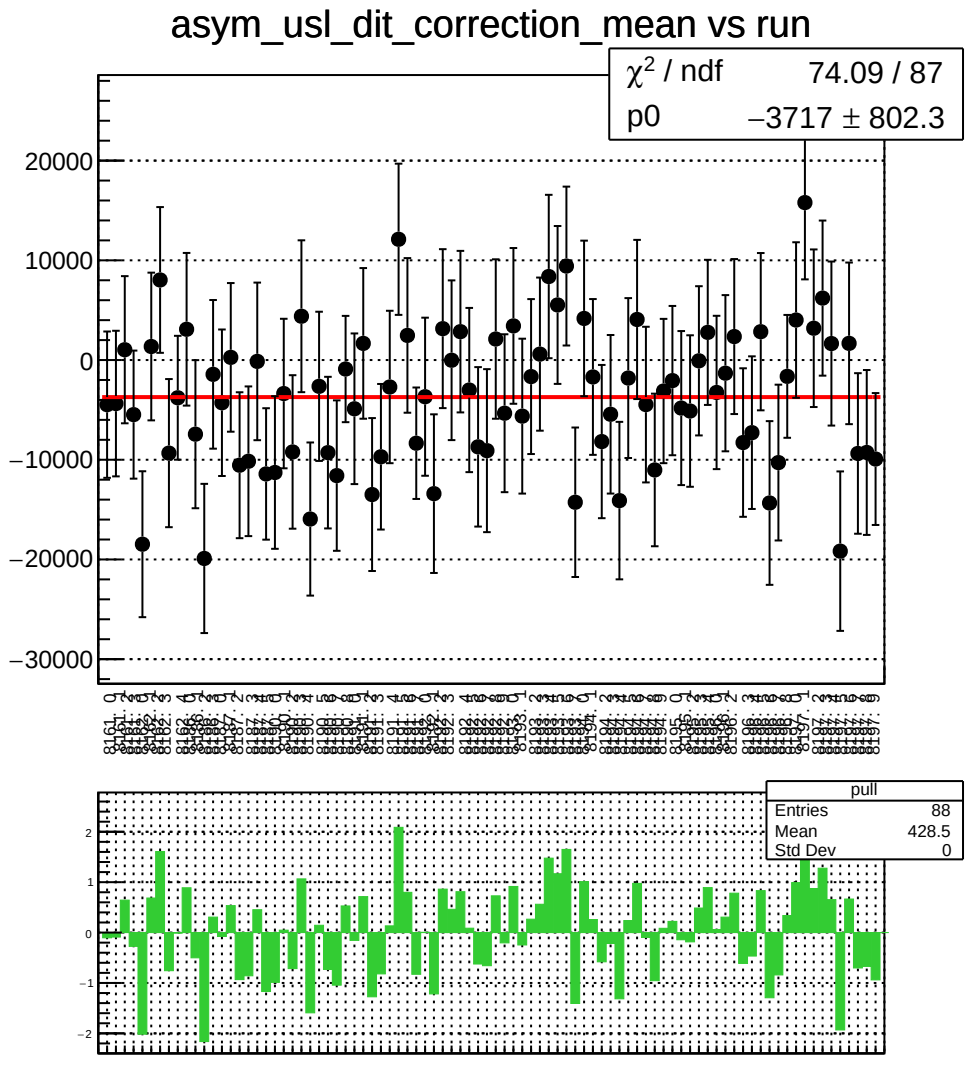

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 73.27 / 87
p0 −3681 ± 830.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 381.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007808
Std Dev 0.9124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

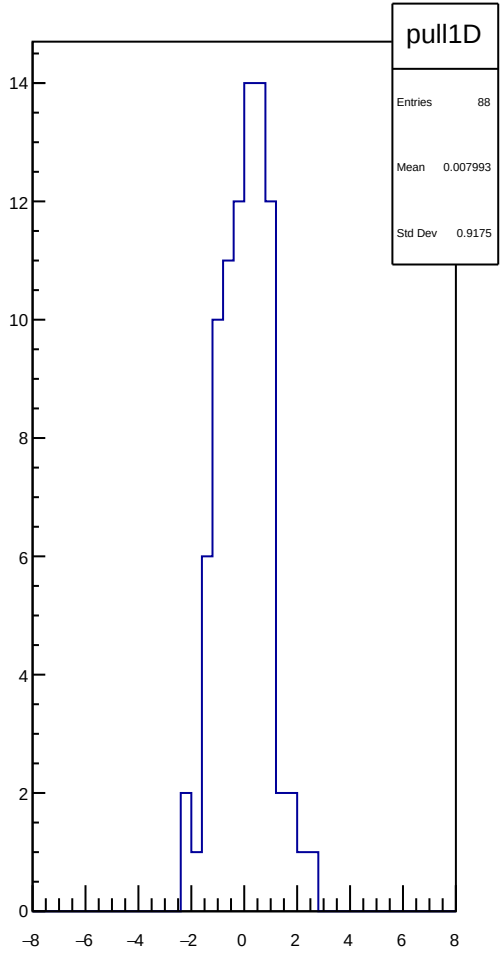

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 4909 / 87
p0 756.8 ± 0.5871
850
800
750
700
650

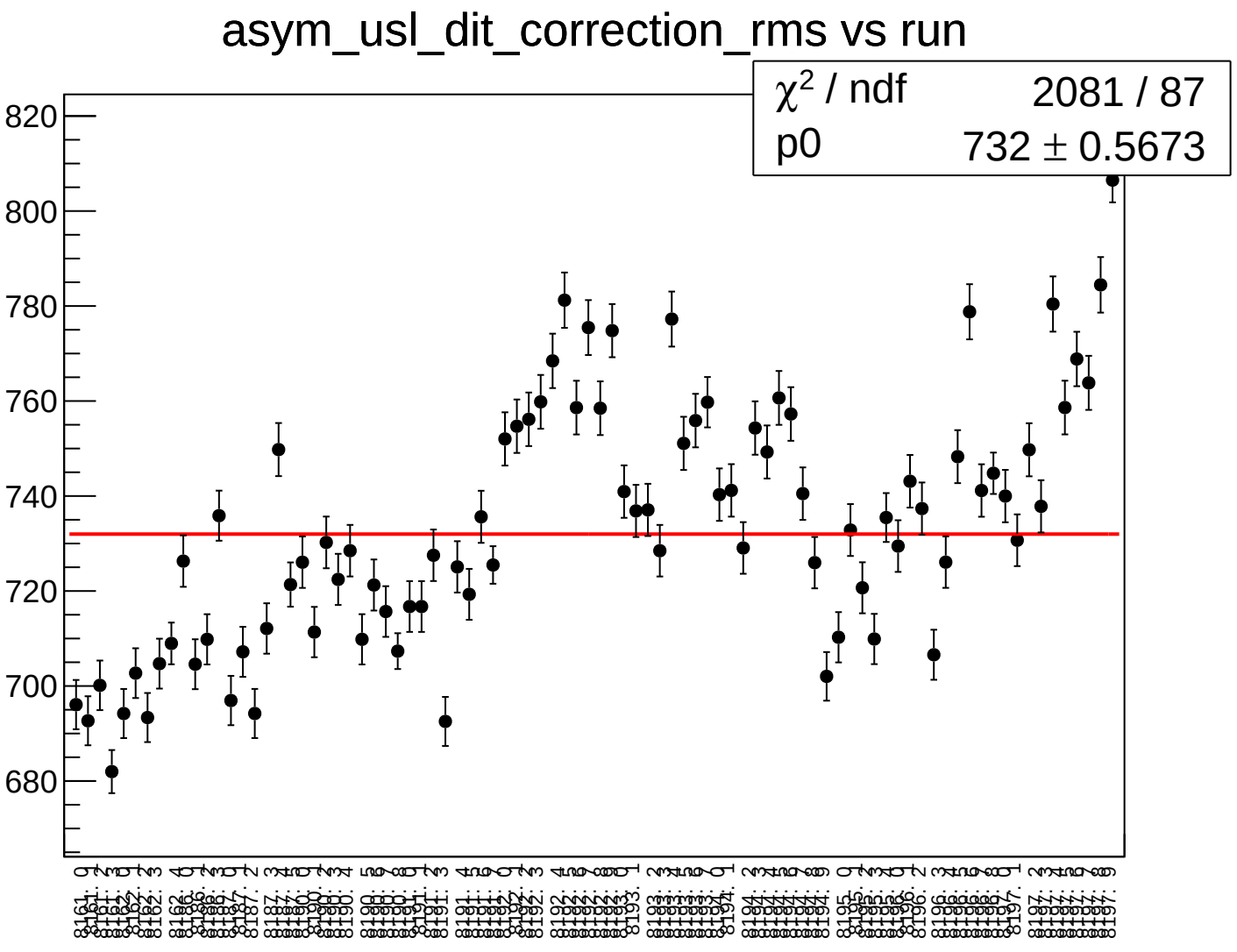

dit_asym_usl_mean vs run
χ² / ndf 98.5 / 87
p0 −2762 ± 1181
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −587.4
Std Dev 0
2
1
0
−1
−2

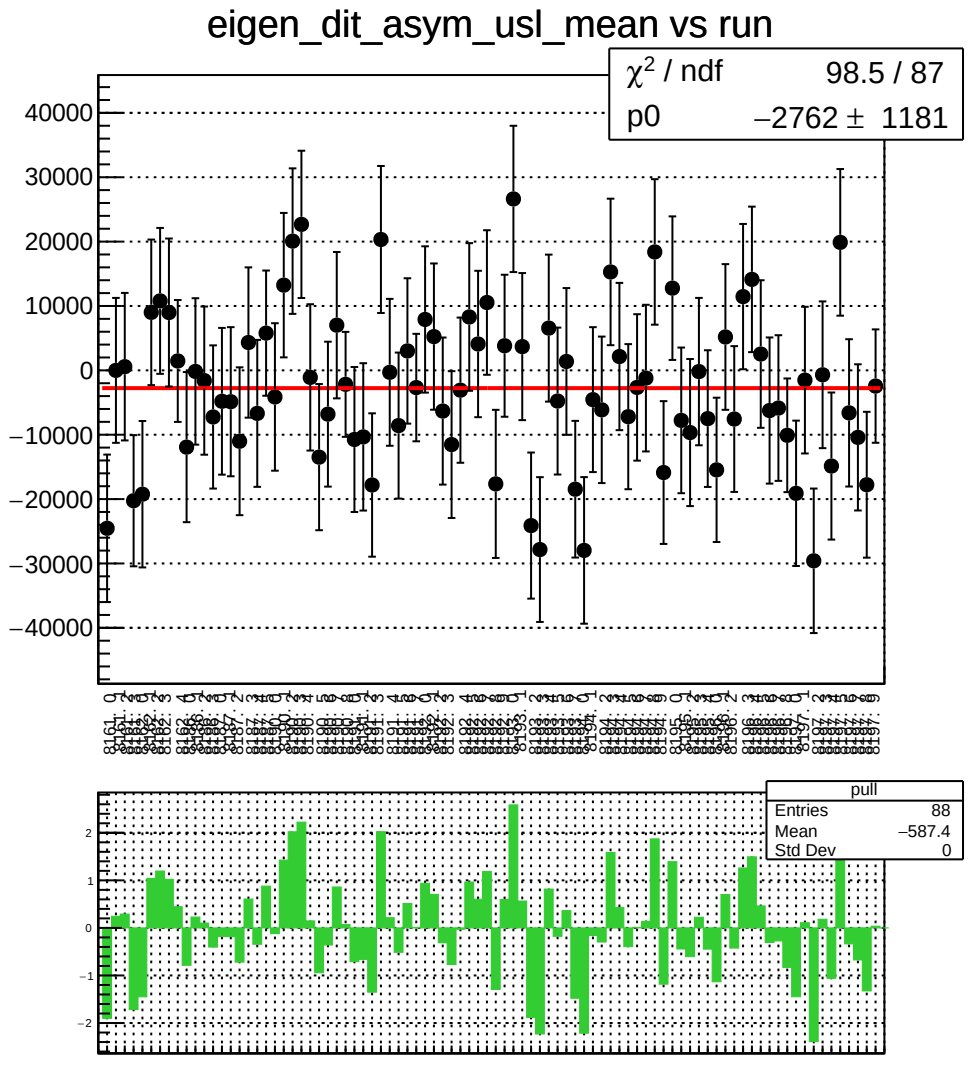

pull1D
Entries 88
Mean 0.003766
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

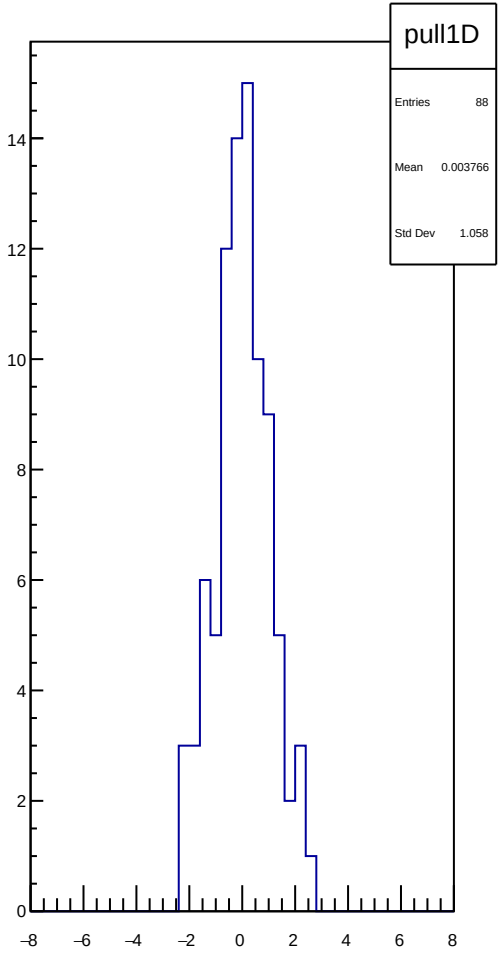

dit_asym_usl_rms vs run
χ² / ndf 114.8 / 87
p0 1078 ± 0.8353
1120
1110
1100
1090
1080
1070
1060
1050

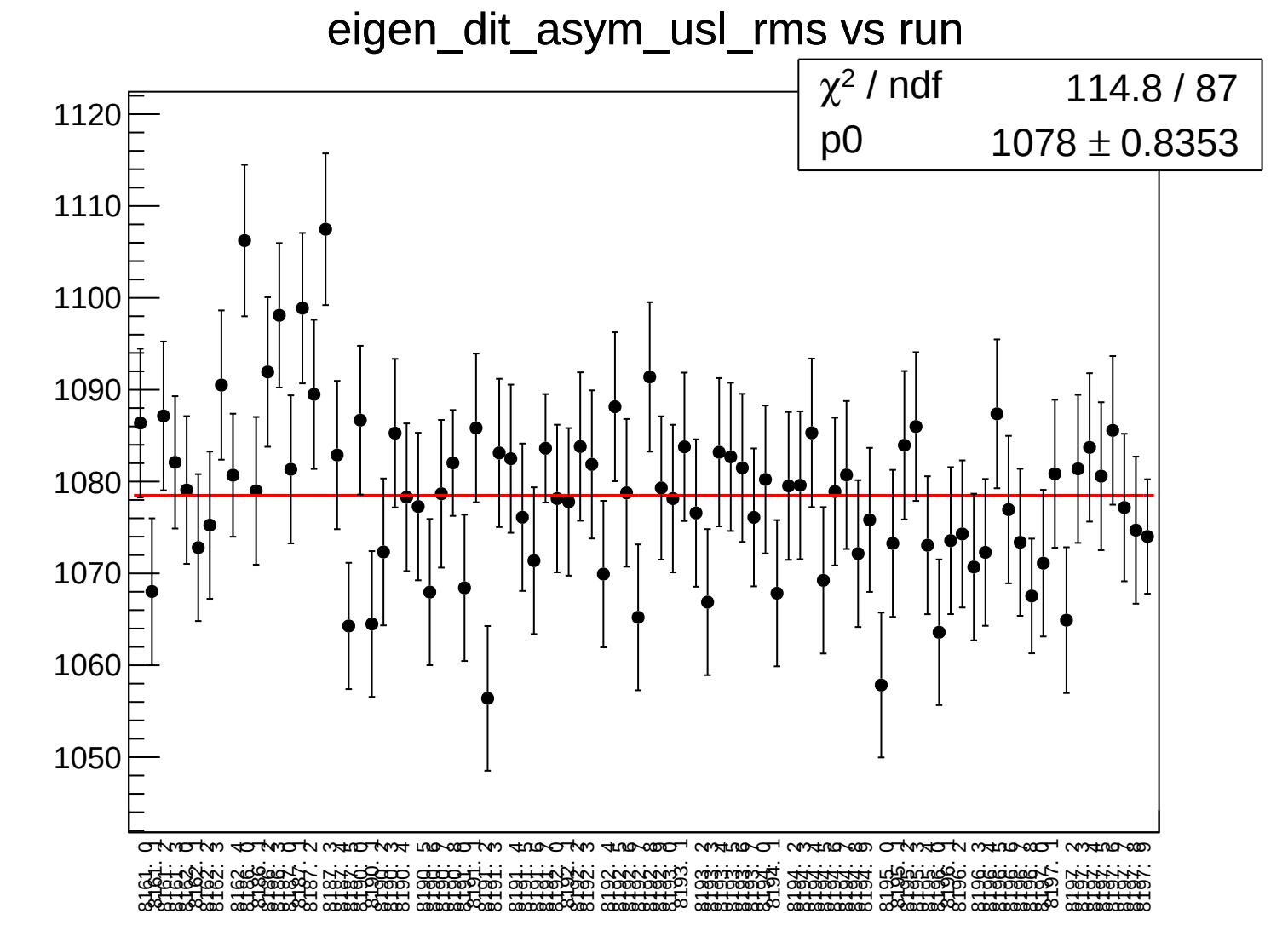

asym_usl_dit_correction_mean vs run
χ² / ndf 74.09 / 87
p0 −3717 ± 802.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 428.5
Std Dev 0
2
1
0
−1
−2

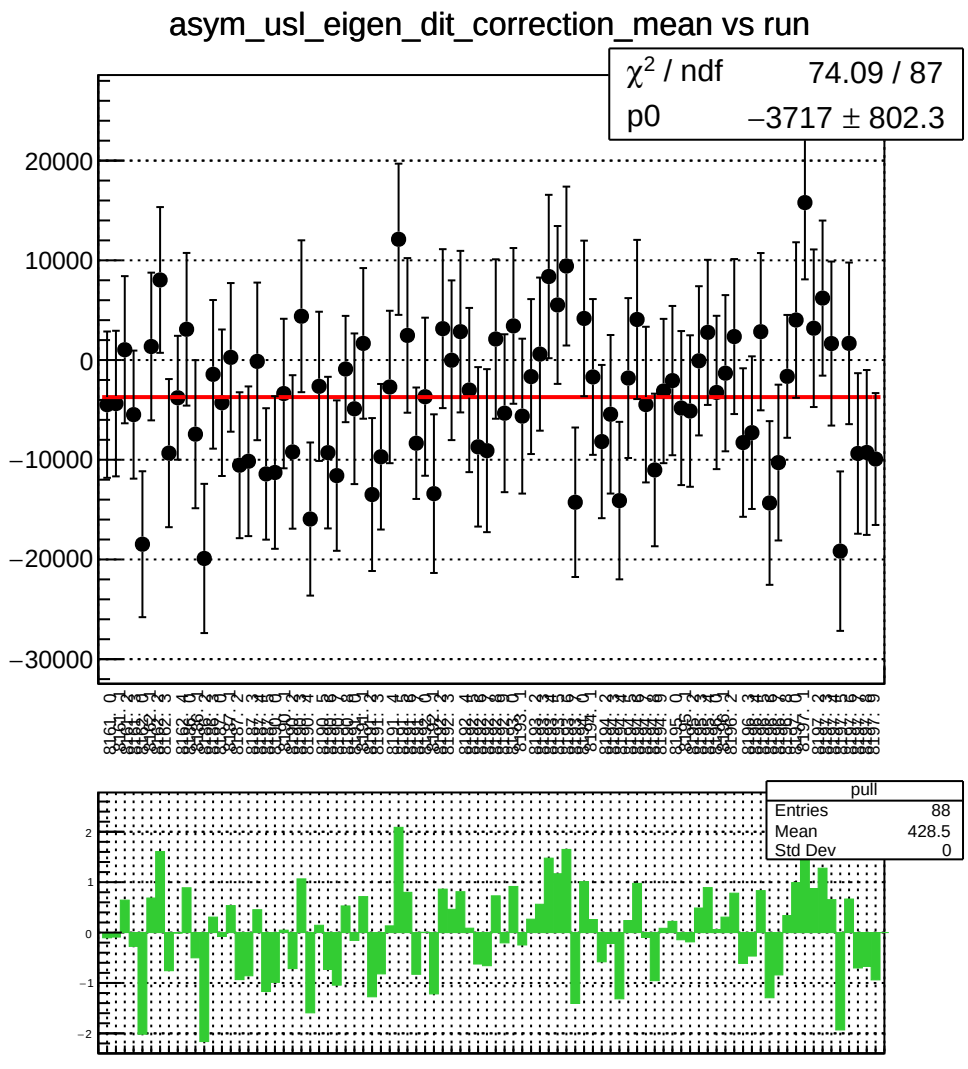

pull1D
Entries 88
Mean 0.007993
Std Dev 0.9175
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

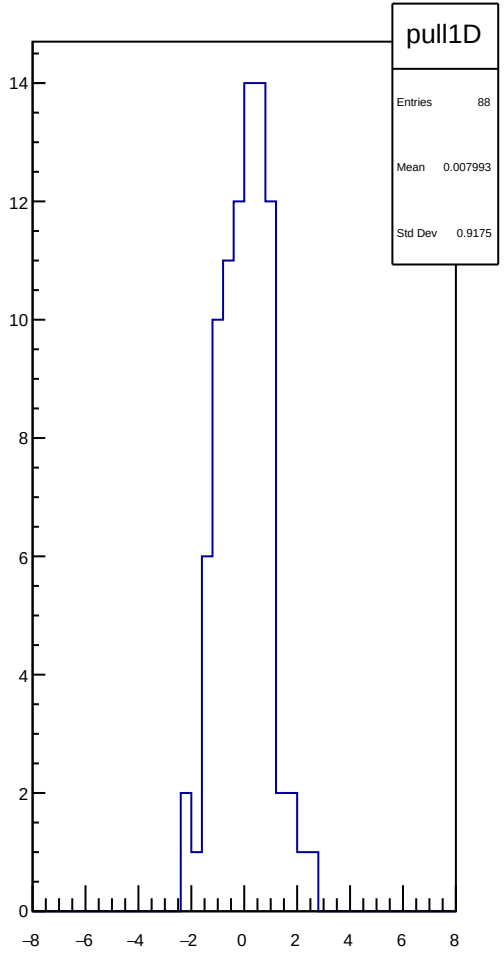

asym_usl_dit_correction_rms vs run
χ² / ndf 2081 / 87
p0 732 ± 0.5673
820
800
780
760
740
720
700
680

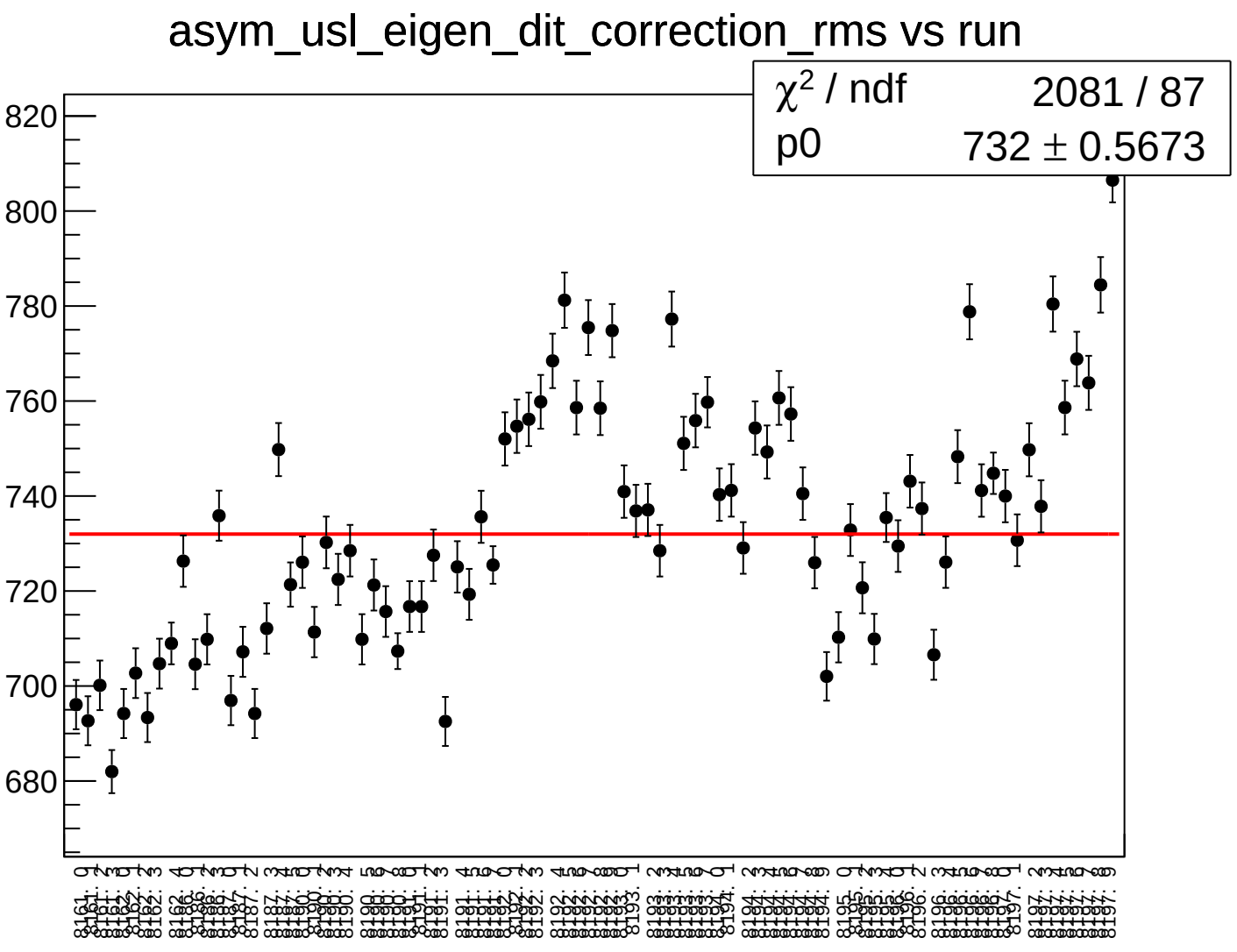

eigen_dit_asym_usl_mean vs run
χ² / ndf 98.5 / 87
p0 −2762 ± 1181
pull
Entries 88
Mean −587.4
Std Dev 0

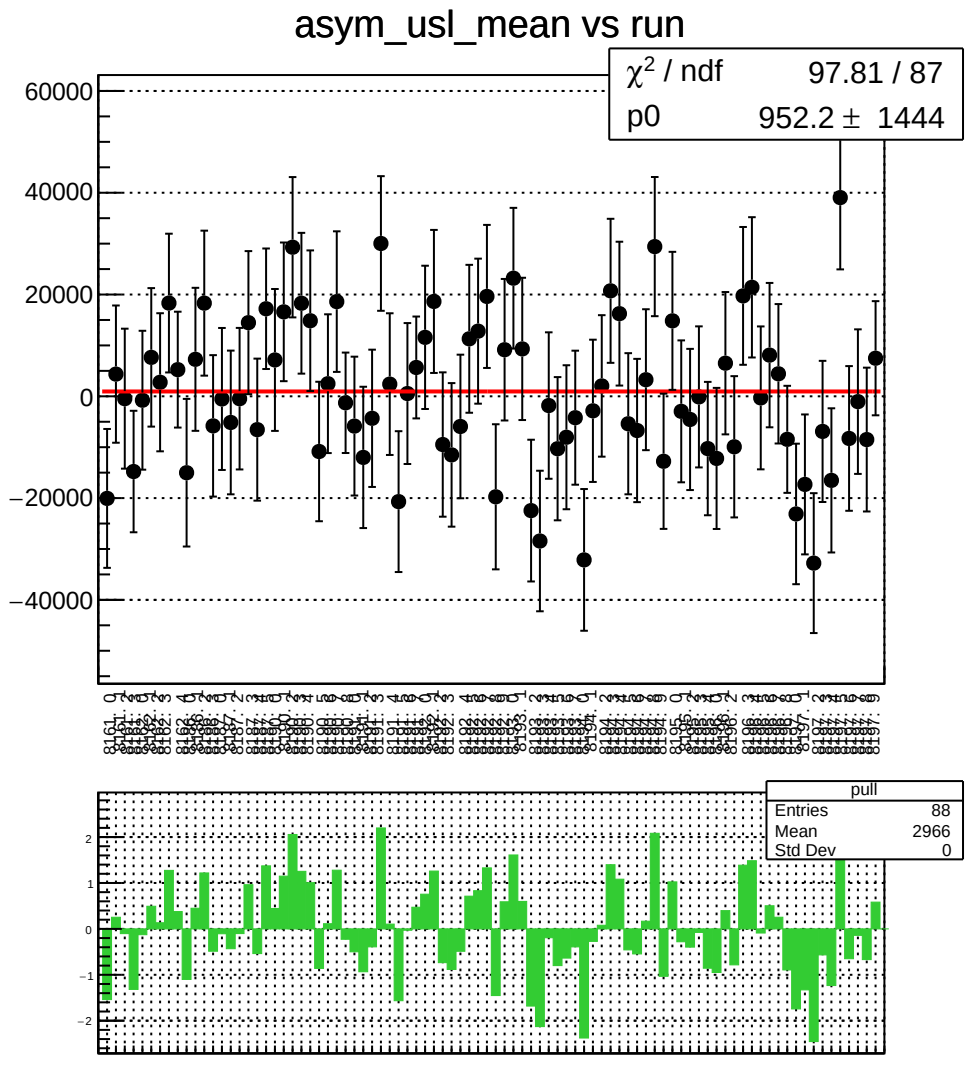

pull1D
Entries 88
Mean 0.003766
Std Dev 1.058

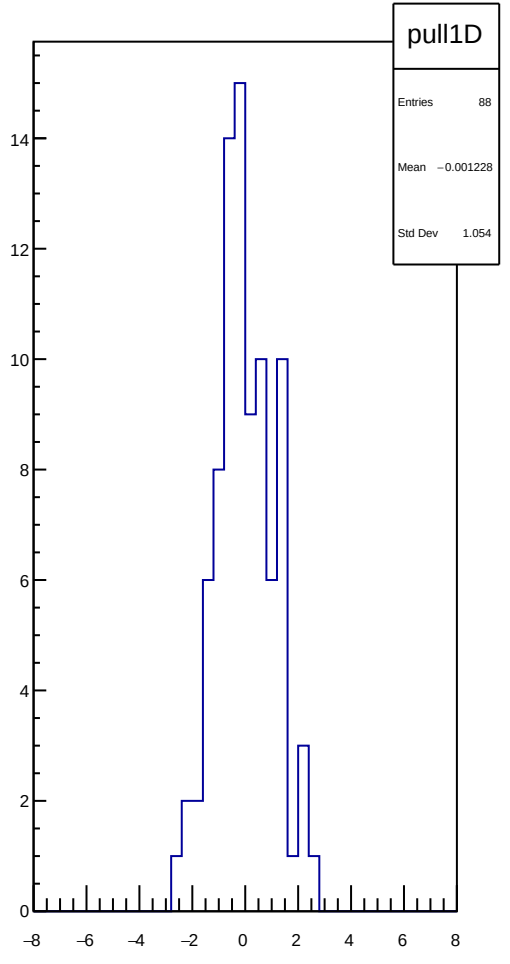

eigen_dit_asym_usl_rms vs run
χ² / ndf 114.8 / 87
p0 1078 ± 0.8353
1120
1110
1100
1090
1080
1070
1060
1050

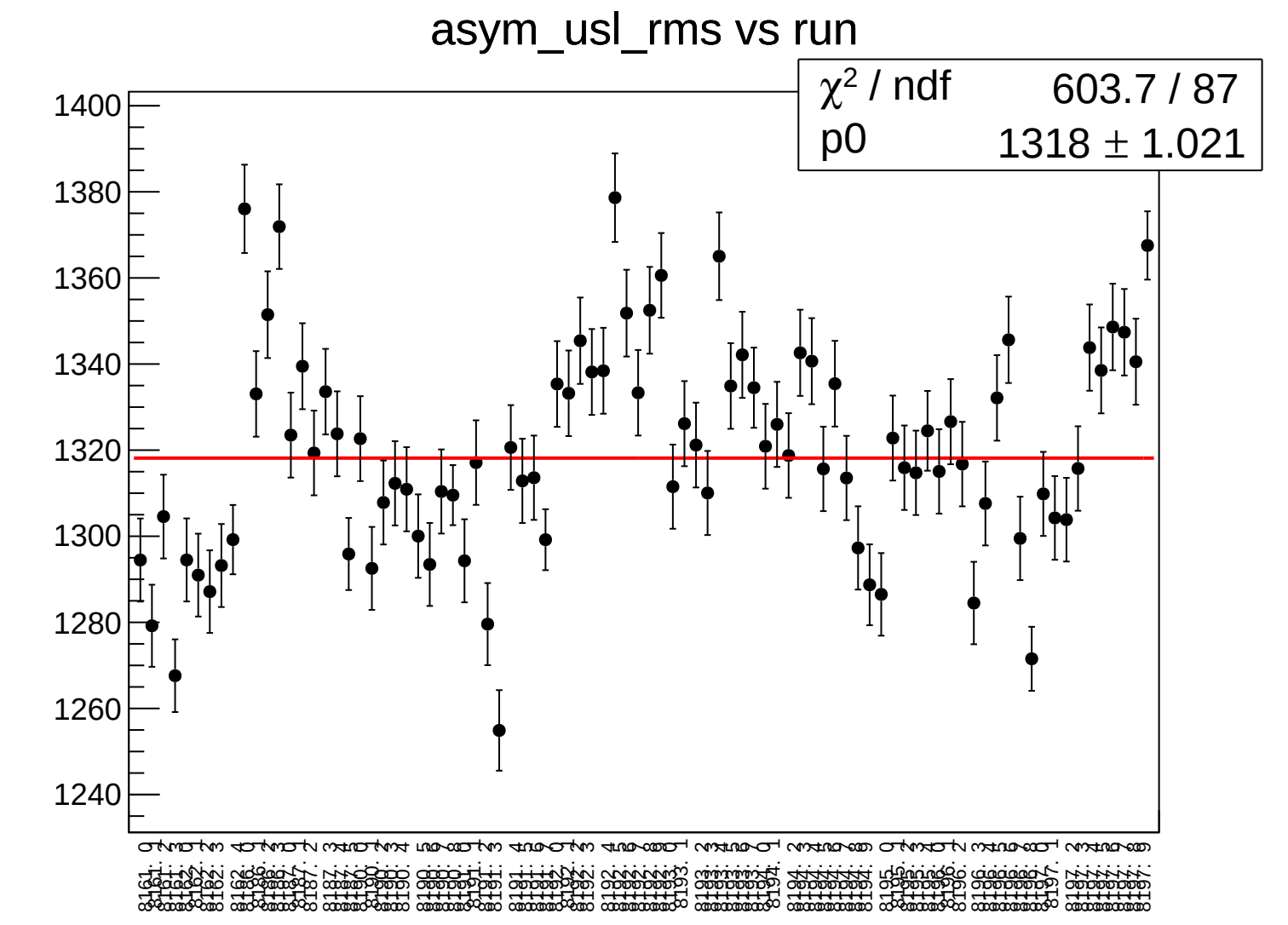

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 74.09 / 87
p0 −3717 ± 802.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 428.5
Std Dev 0
2
1
0
−1
−2

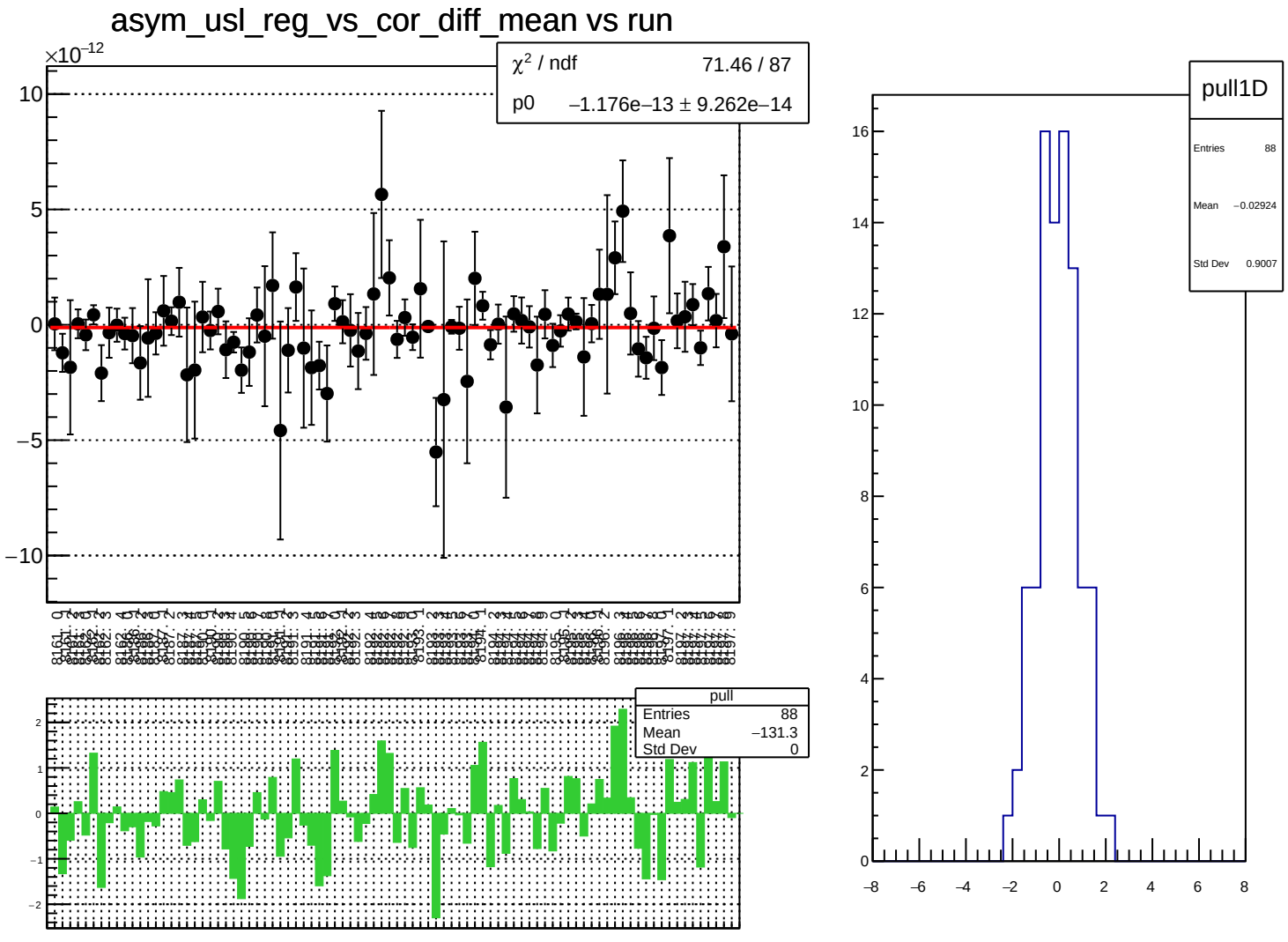

pull1D
Entries 88
Mean 0.007993
Std Dev 0.9175
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

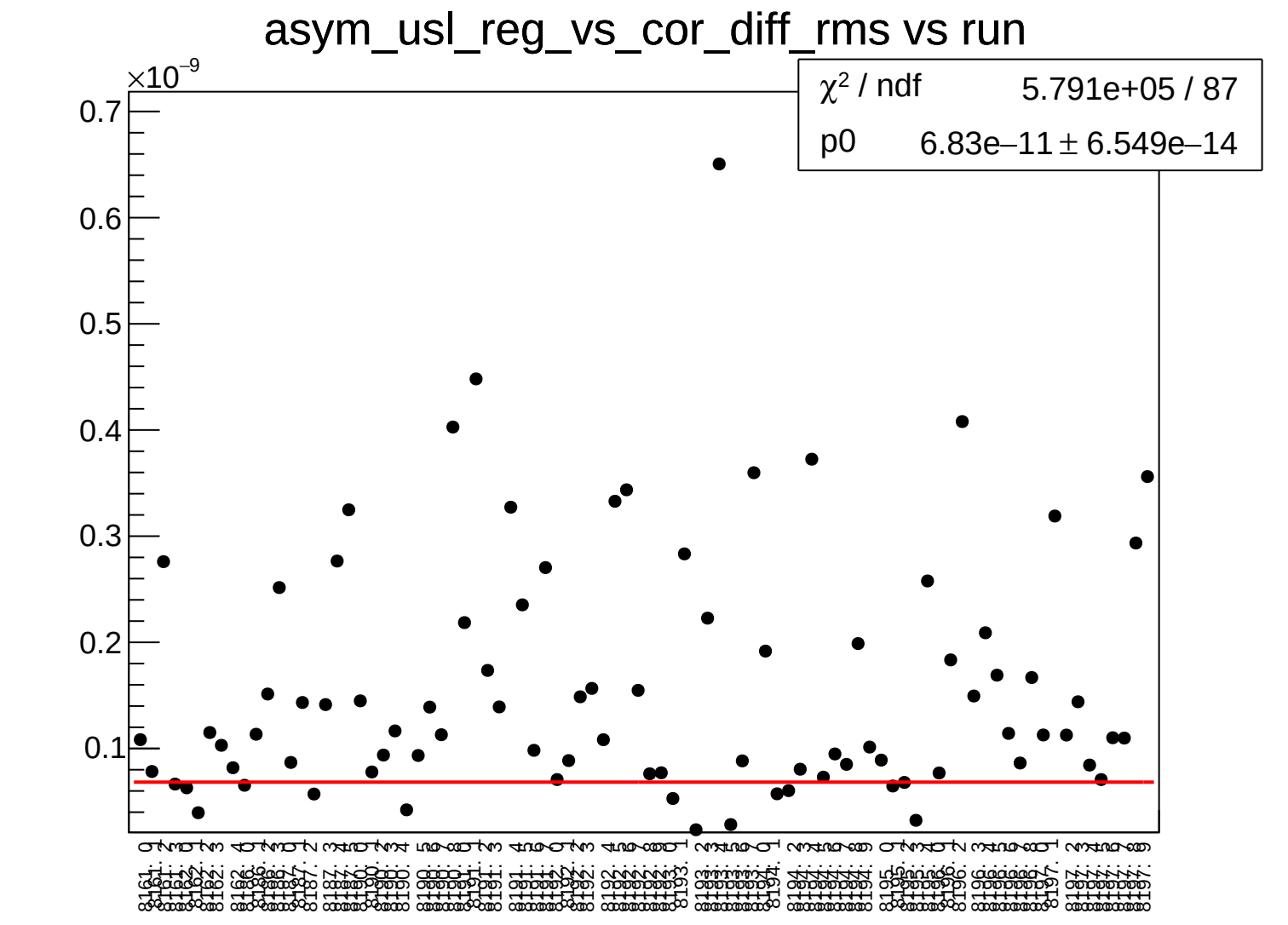

asym_usl_eigen_dit_correction_rms vs run
χ^2 / ndf 2081 / 87
p0 732 ± 0.5673
820
800
780
760
740
720
700
680

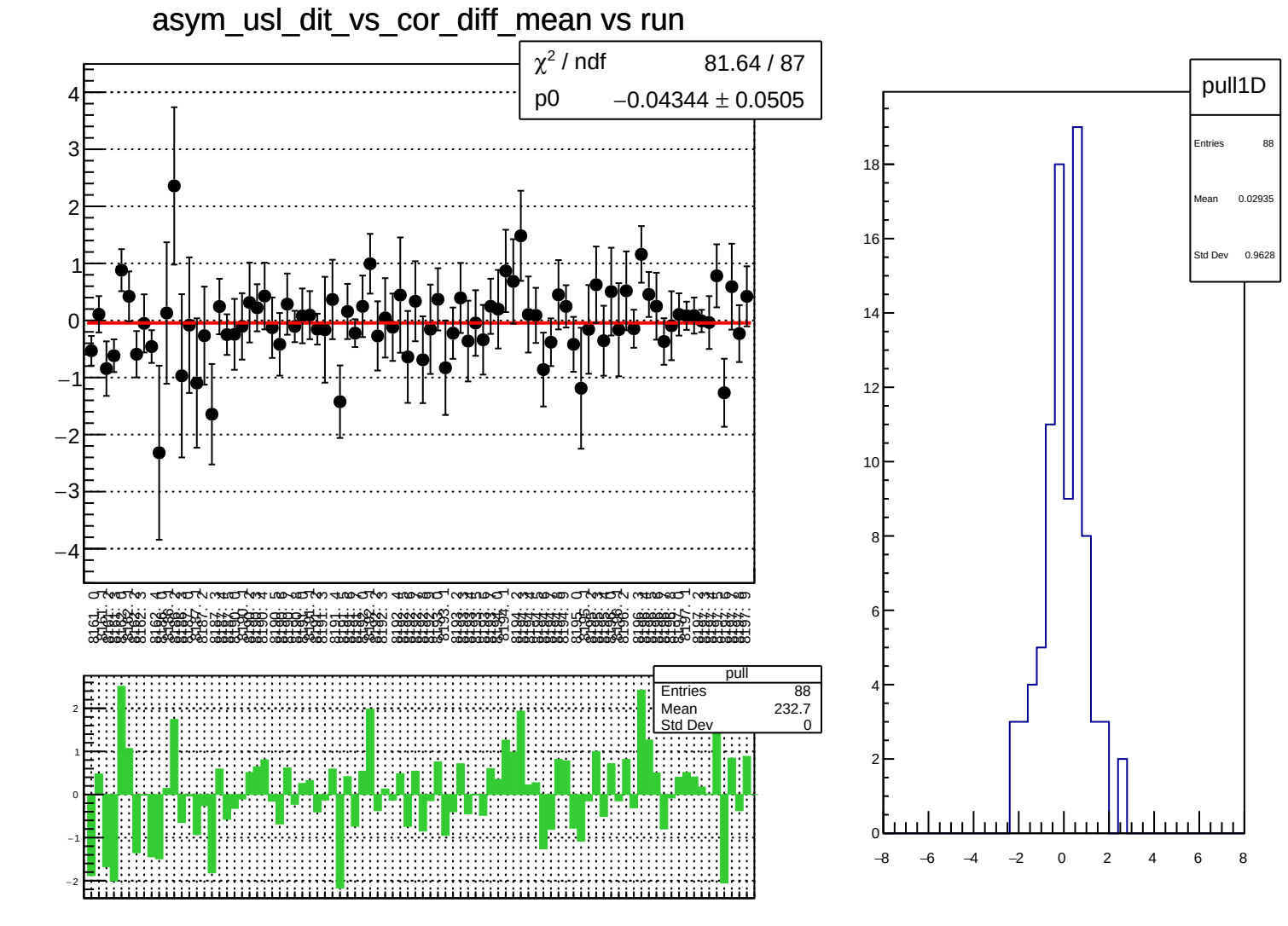

asym_usl_mean vs run
χ² / ndf 97.81 / 87
p0 952.2 ± 1444
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 2966
Std Dev 0
2
1
0
−1
−2

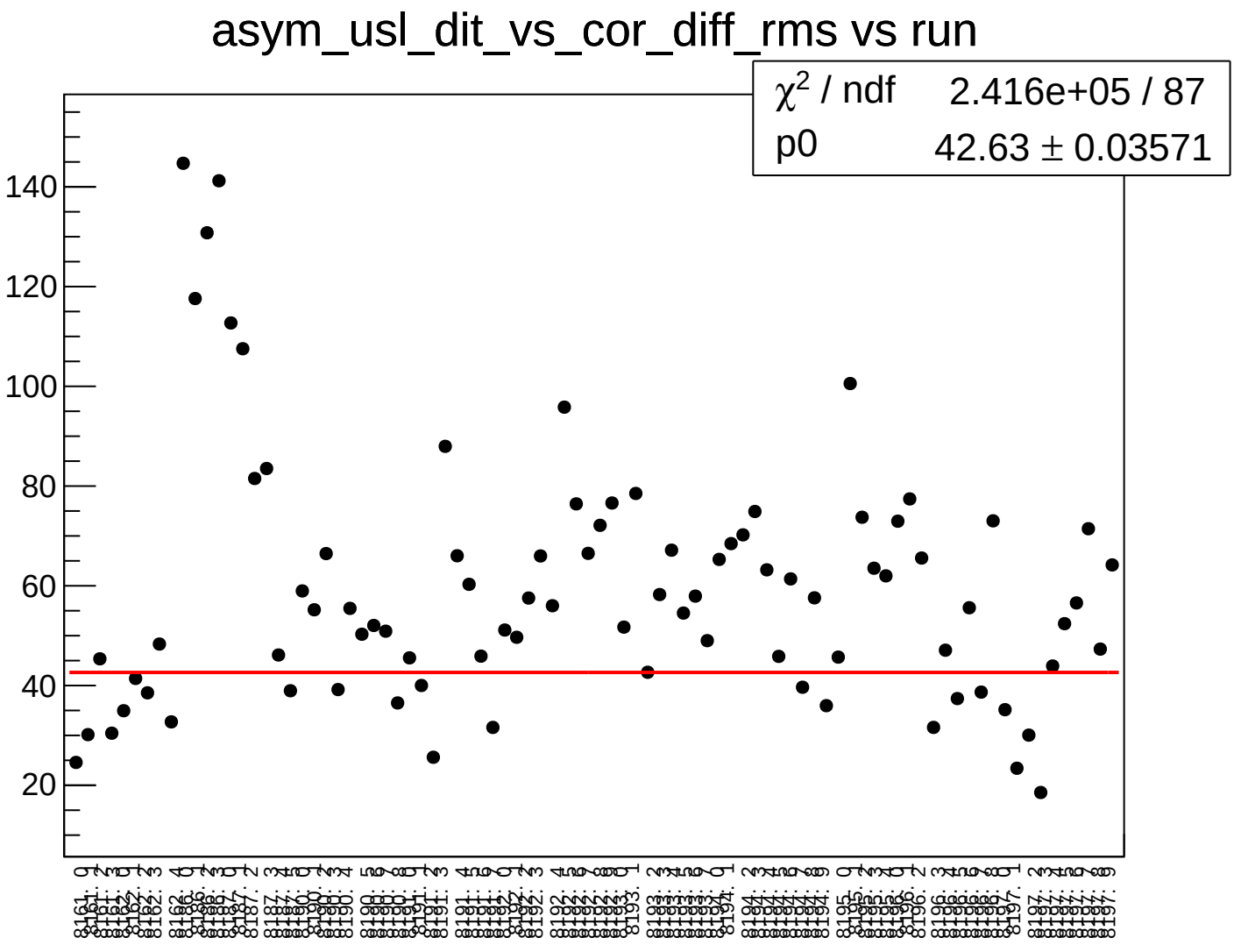

pull1D
Entries 88
Mean −0.001228
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

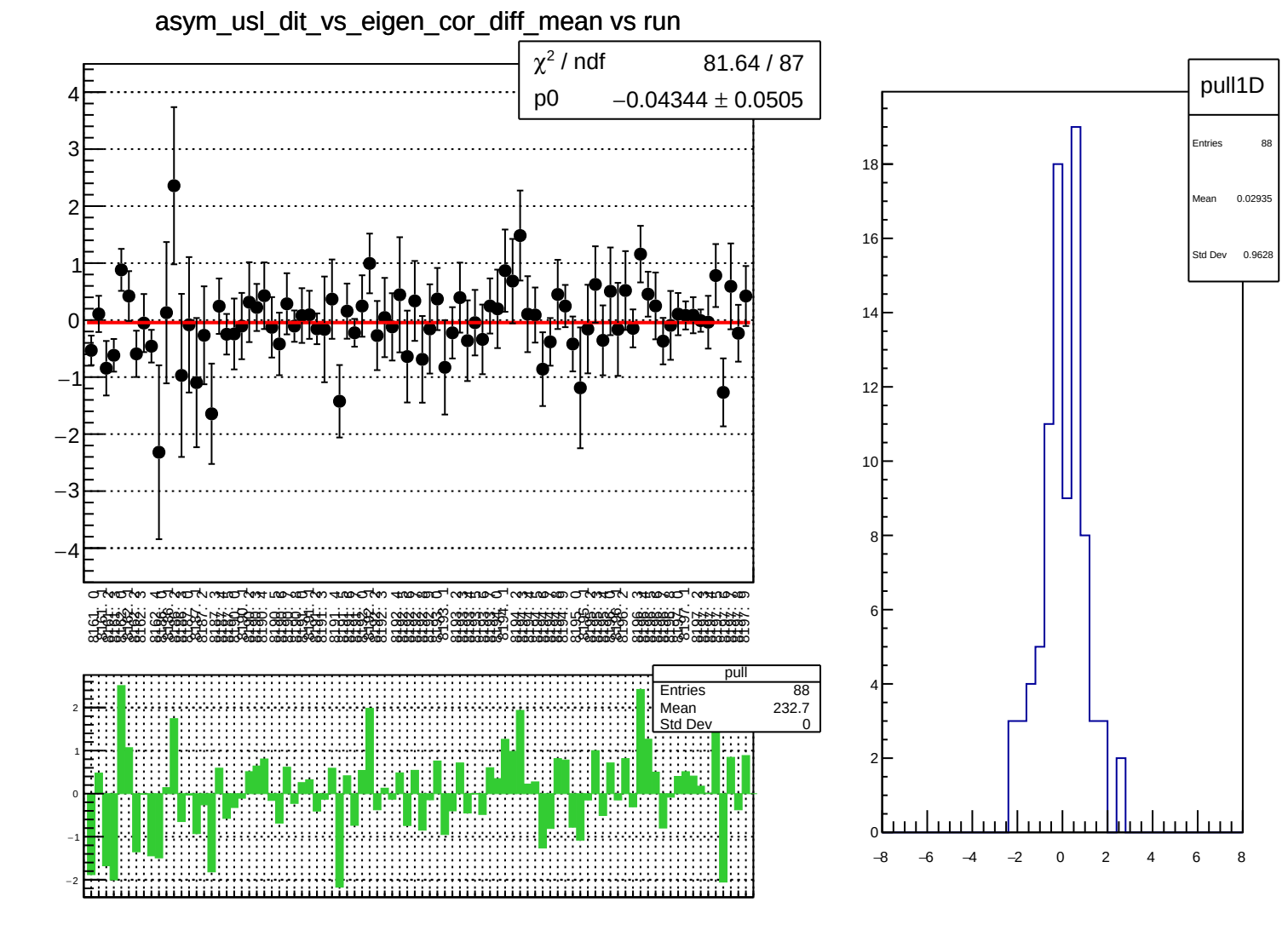

asym_usl_rms vs run
χ² / ndf 603.7 / 87
p0 1318 ± 1.021
1400
1380
1360
1340
1320
1300
1280
1260
1240

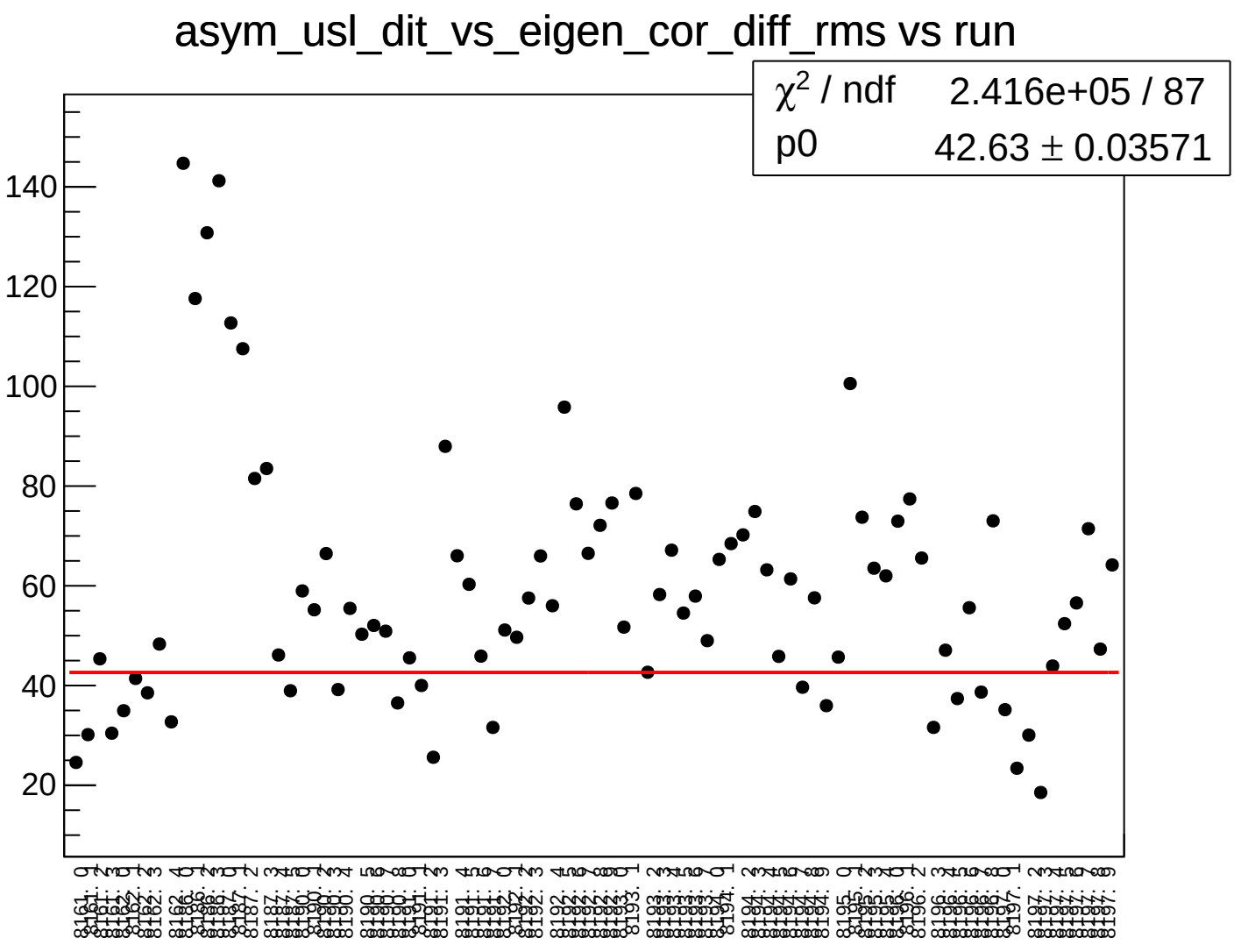

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.46 / 87
p0 −1.176e−13 ± 9.262e−14
pull
Entries 88
Mean −131.3
Std Dev 0
pull1D
Entries 88
Mean −0.02924
Std Dev 0.9007

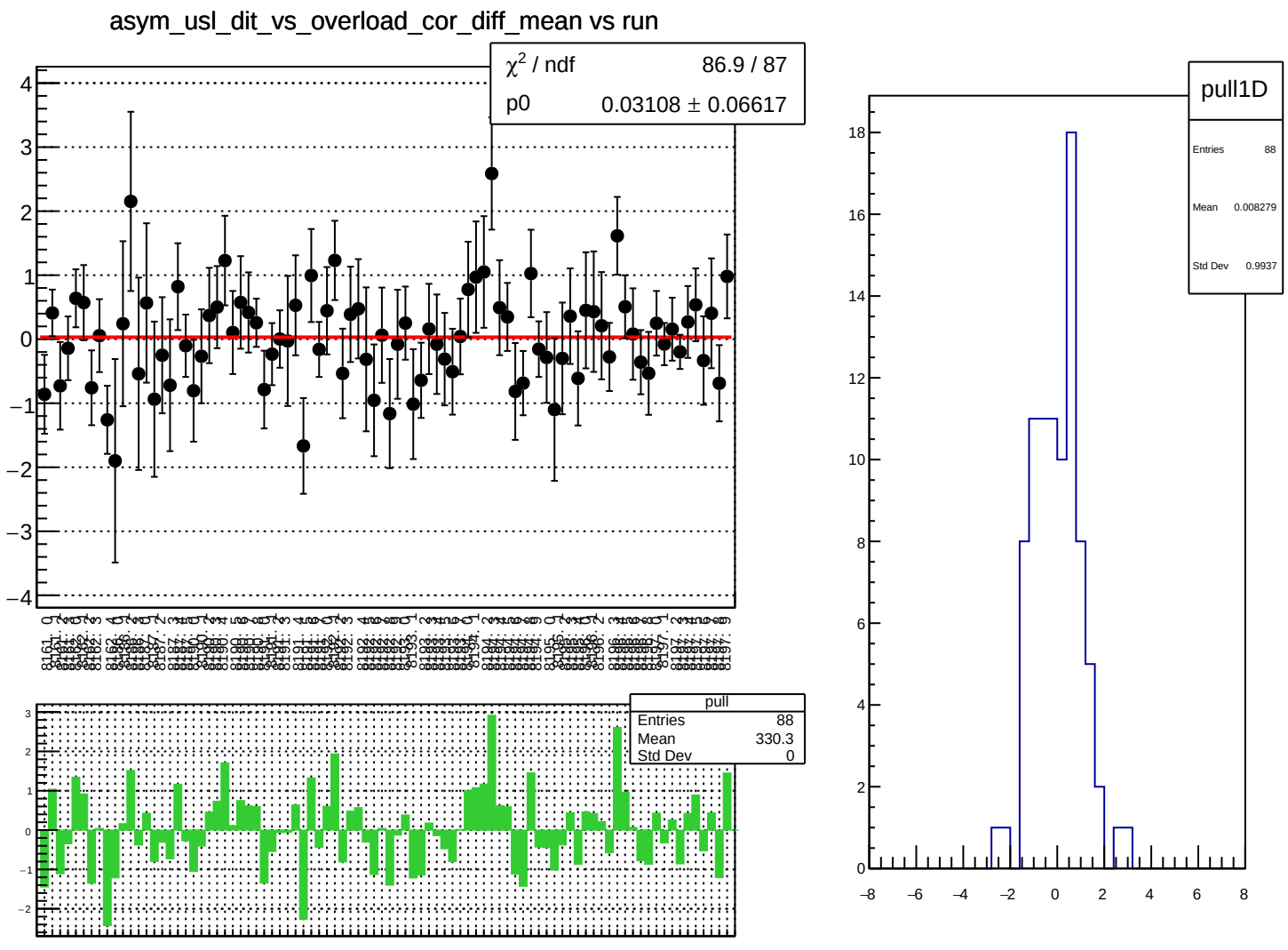

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.791e+05 / 87
p0 6.83e−11 ± 6.549e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

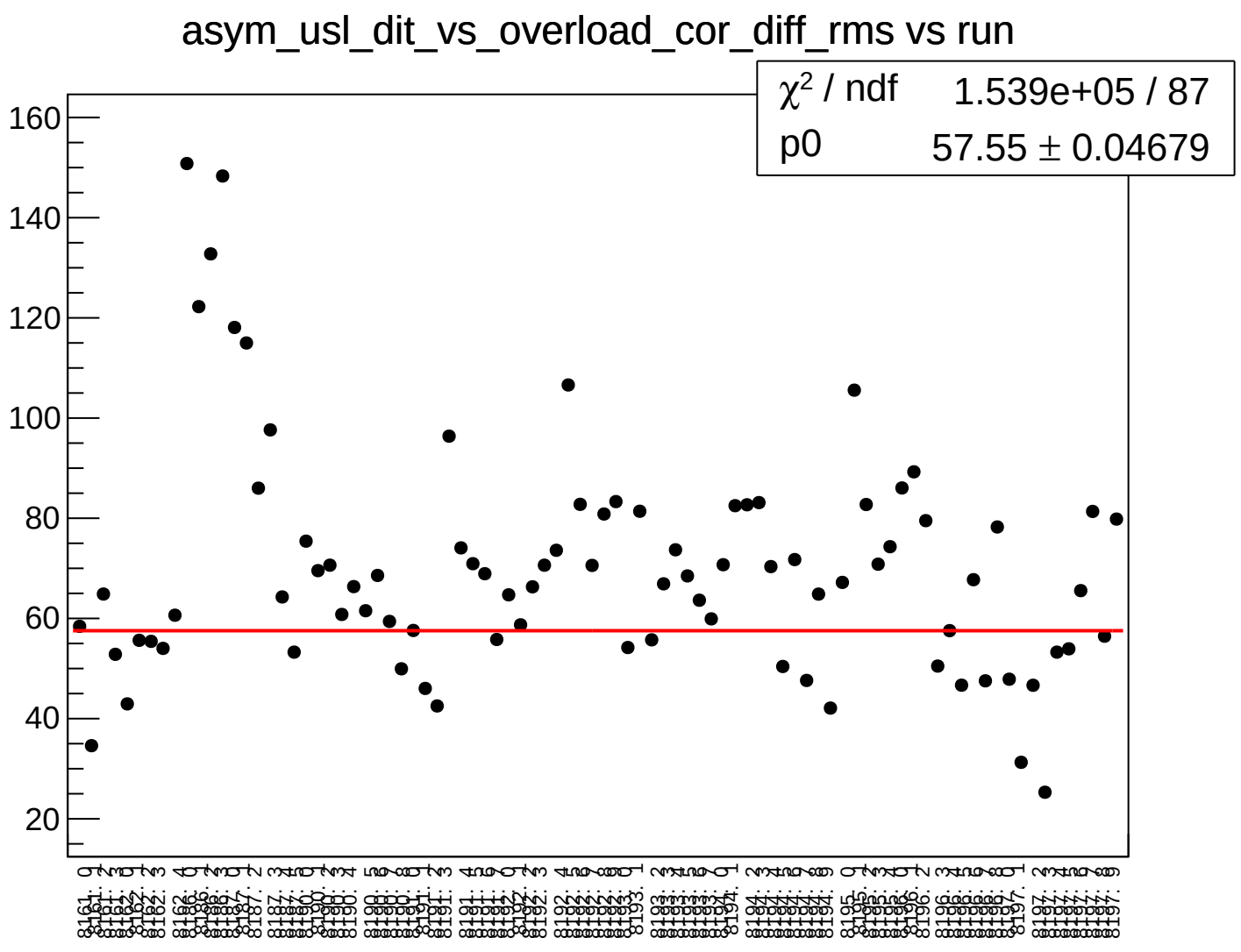

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 81.64 / 87
p0 −0.04344 ± 0.0505
pull
Entries 88
Mean 232.7
Std Dev 0
pull1D
Entries 88
Mean 0.02935
Std Dev 0.9628

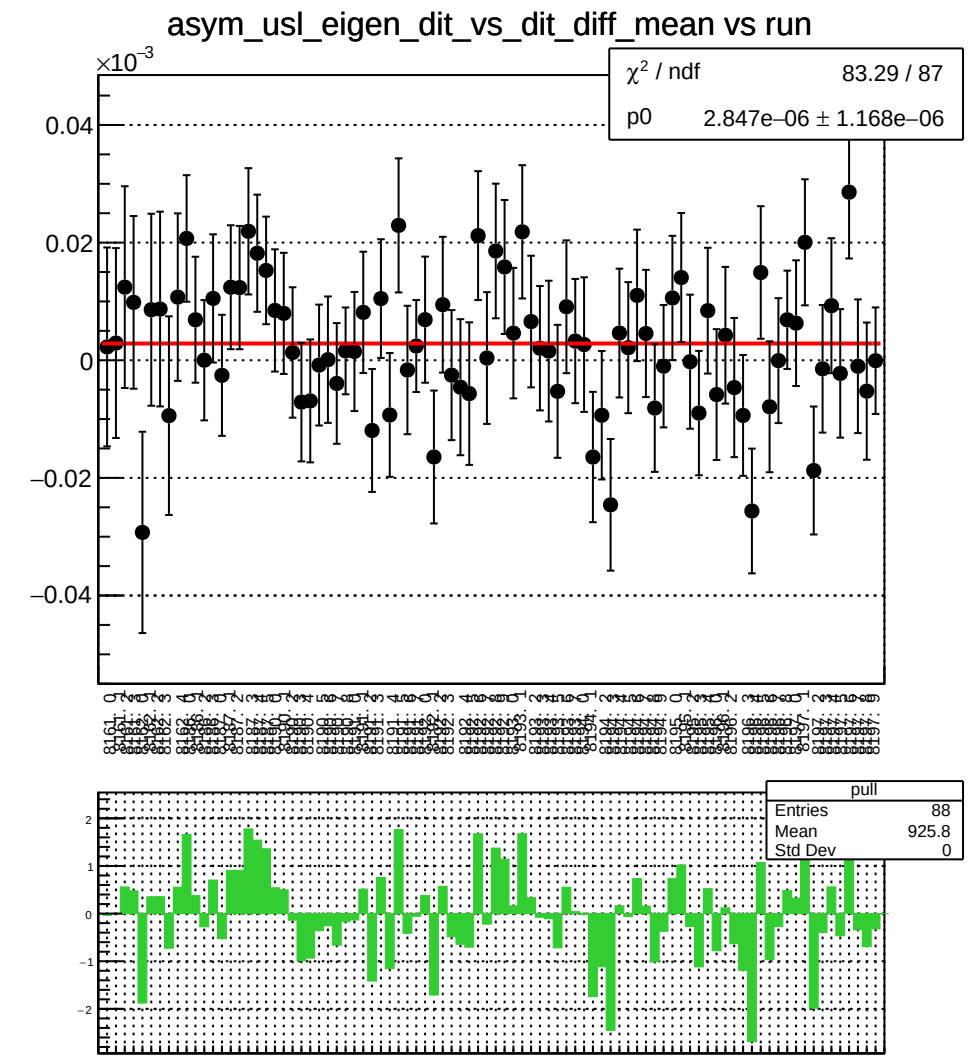

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.416e+05 / 87
p0 42.63 ± 0.03571
140
120
100
80
60
40
20

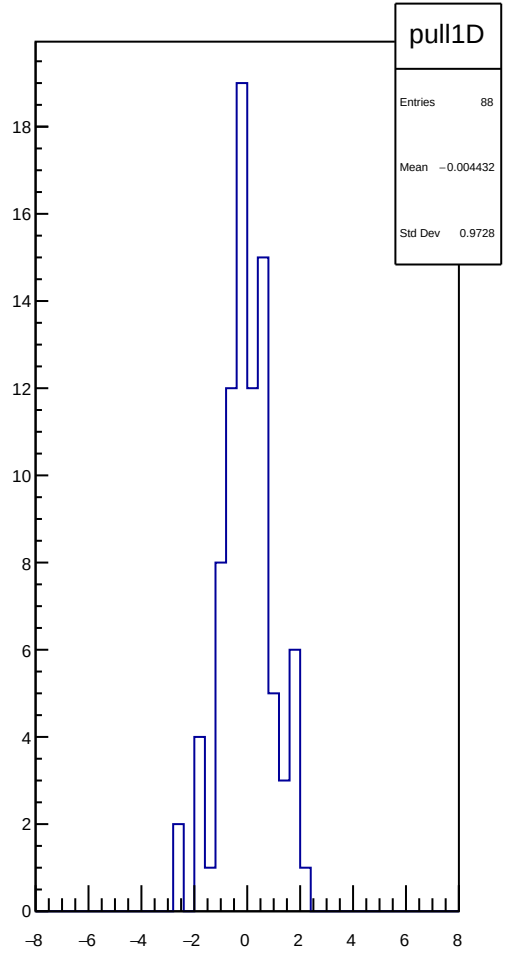

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.64 / 87
p0 −0.04344 ± 0.0505
pull
Entries 88
Mean 232.7
Std Dev 0
pull1D
Entries 88
Mean 0.02935
Std Dev 0.9628

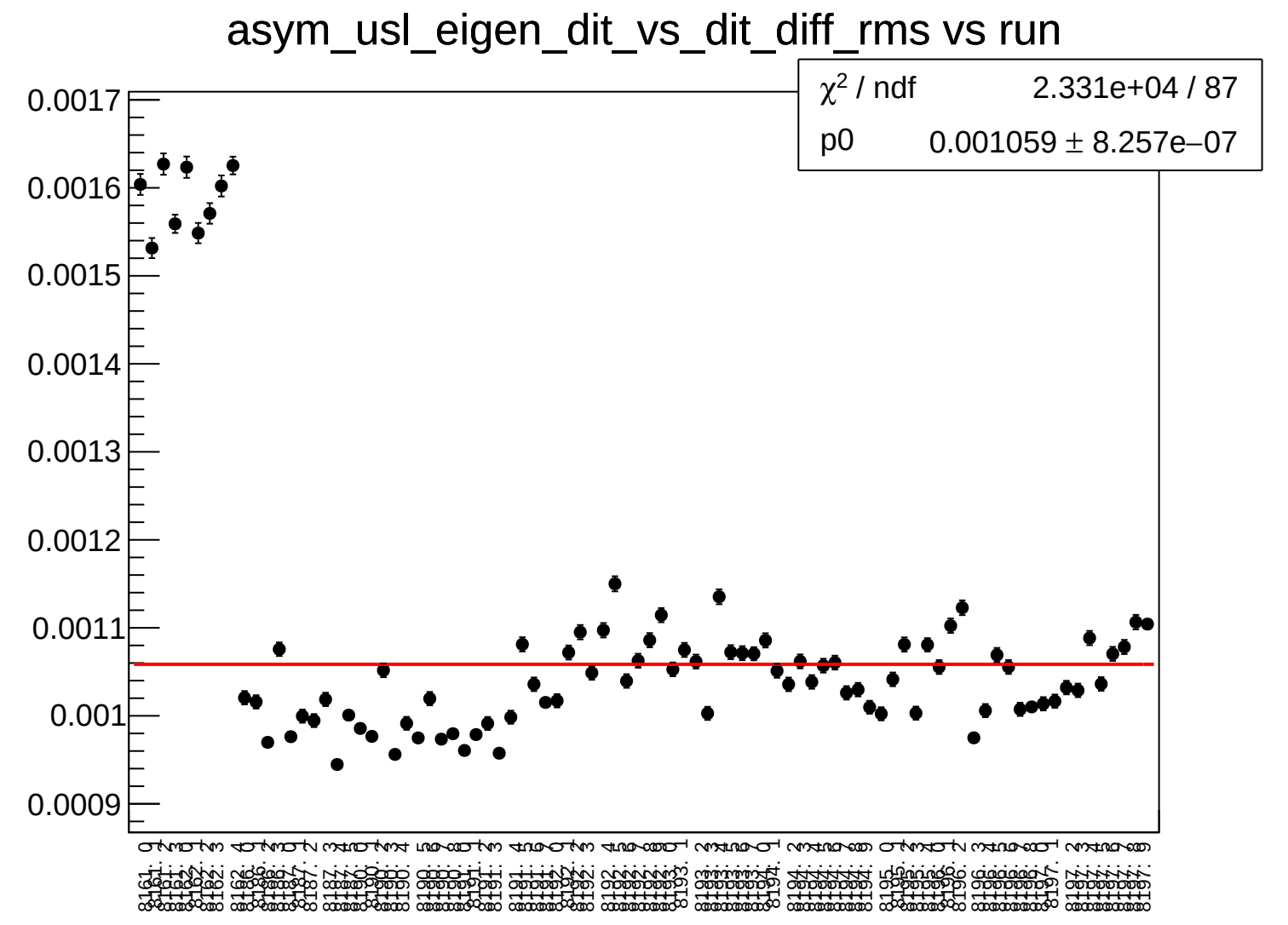

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.416e+05 / 87
p0 42.63 ± 0.03571
140
120
100
80
60
40
20

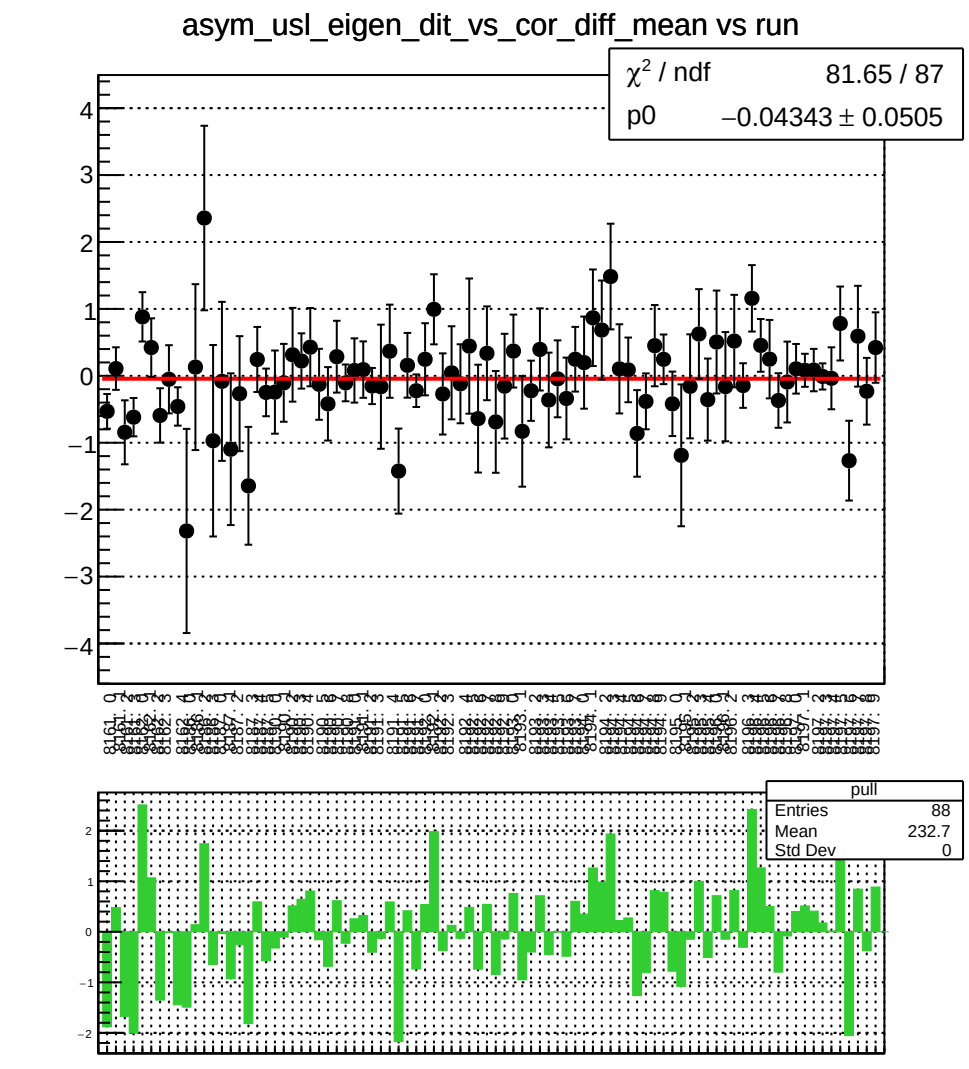

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 86.9 / 87
p0 0.03108 ± 0.06617
pull
Entries 88
Mean 330.3
Std Dev 0
pull1D
Entries 88
Mean 0.008279
Std Dev 0.9937

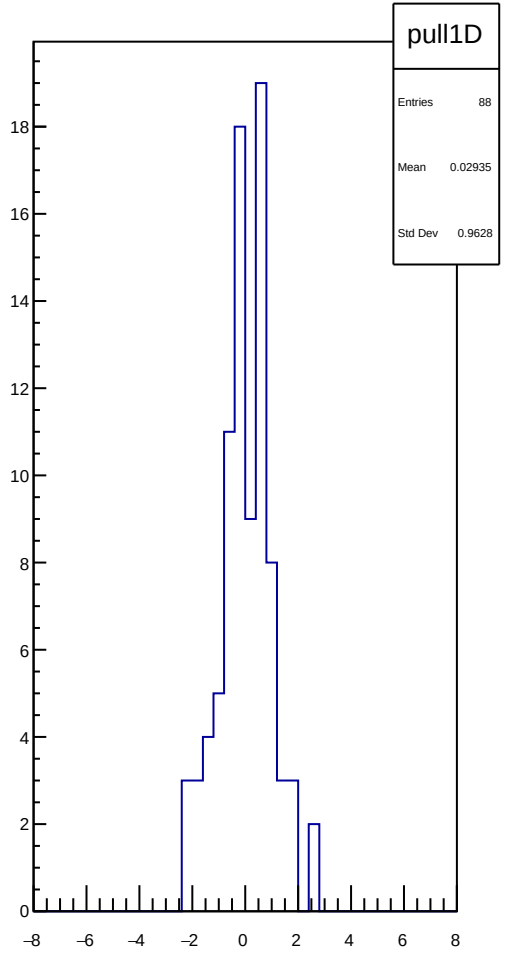

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 87
p0 57.55 ± 0.04679
160
140
120
100
80
60
40
20

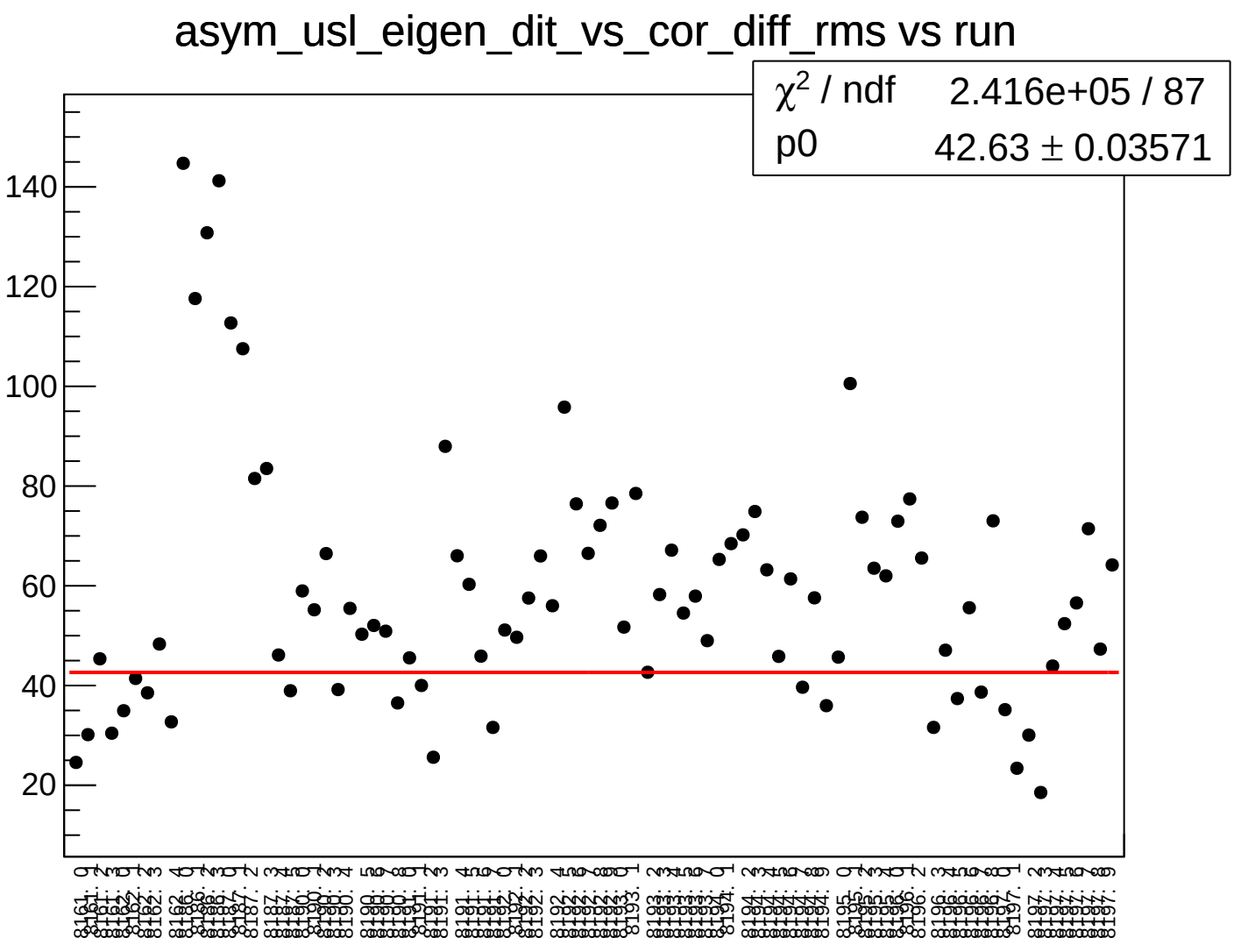

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.29 / 87
p0 2.847e−06 ± 1.168e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 925.8
Std Dev 0
2
1
0
−1
−2

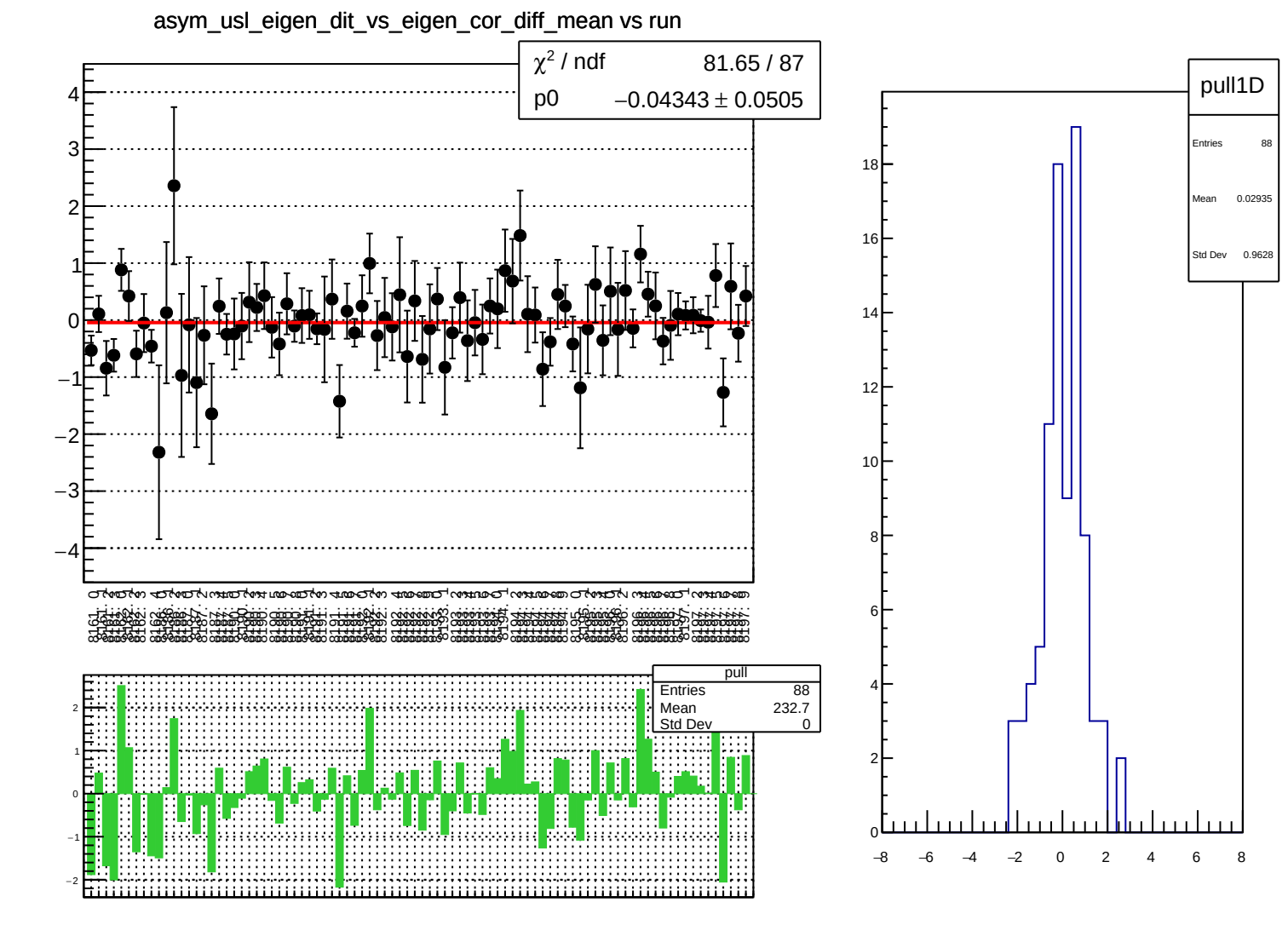

pull1D
Entries 88
Mean −0.004432
Std Dev 0.9728
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

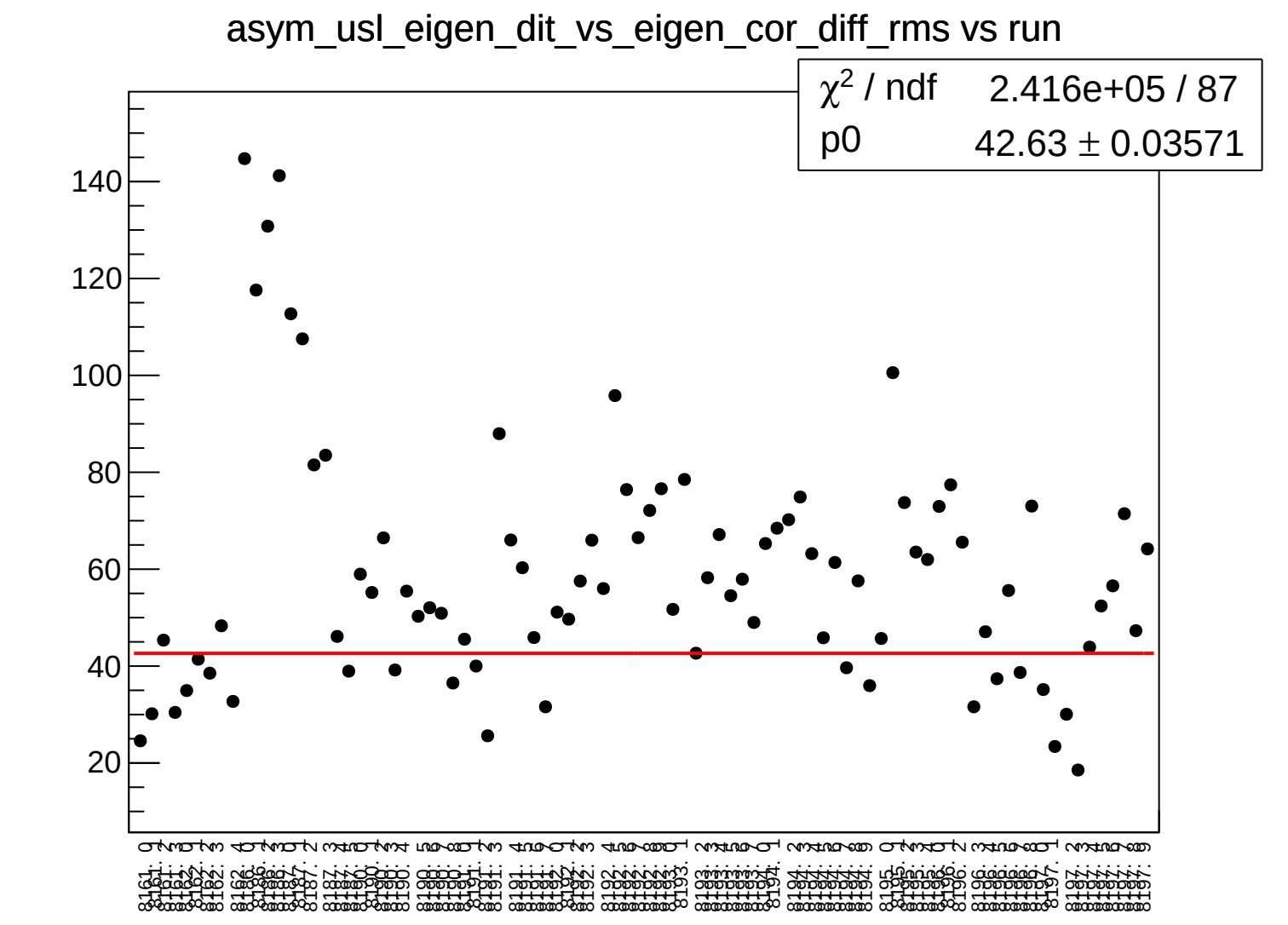

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.331e+04 / 87
p0 0.001059 ± 8.257e−07
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

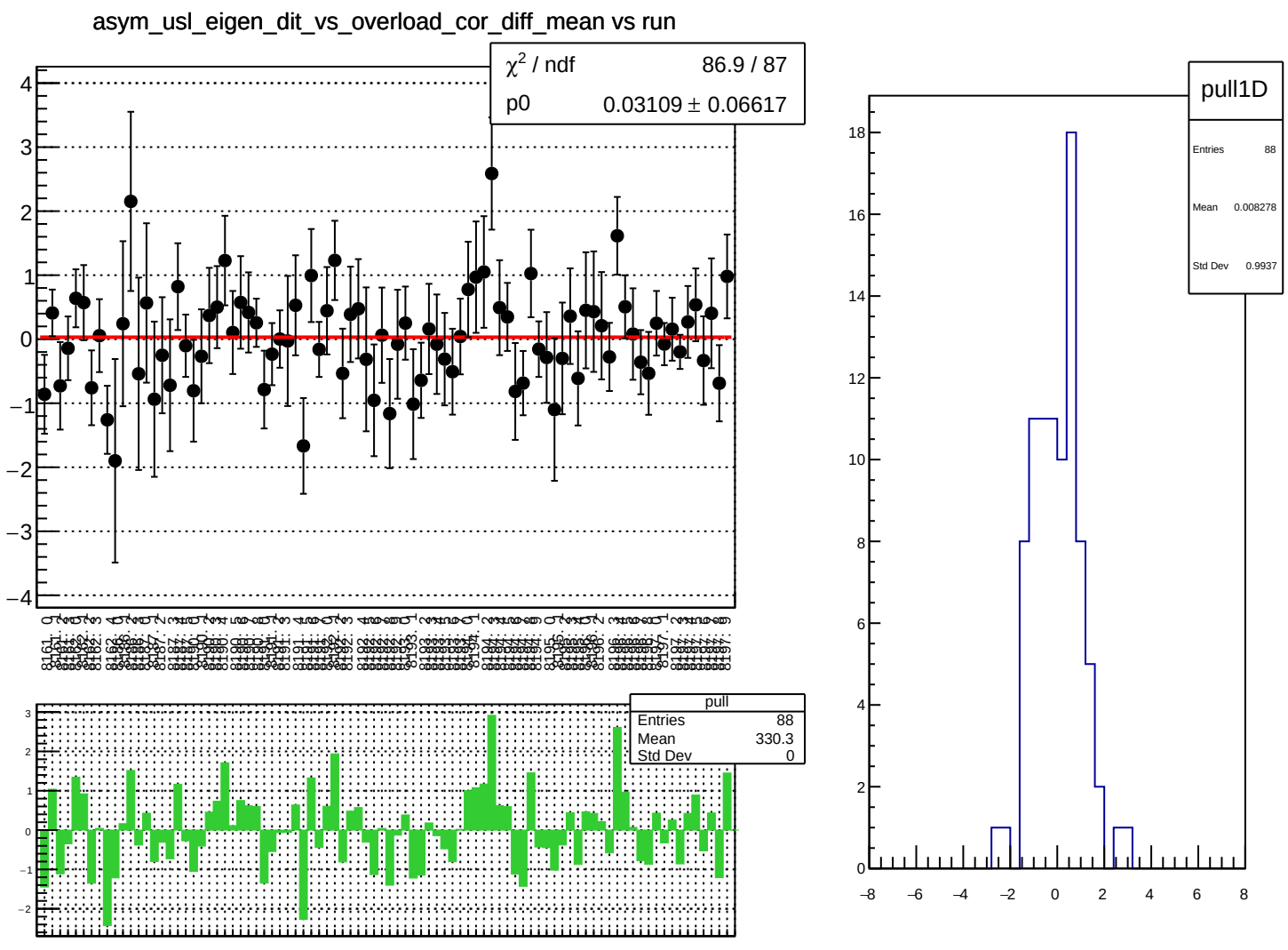

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.65 / 87
p0 −0.04343 ± 0.0505
pull
Entries 88
Mean 232.7
Std Dev 0

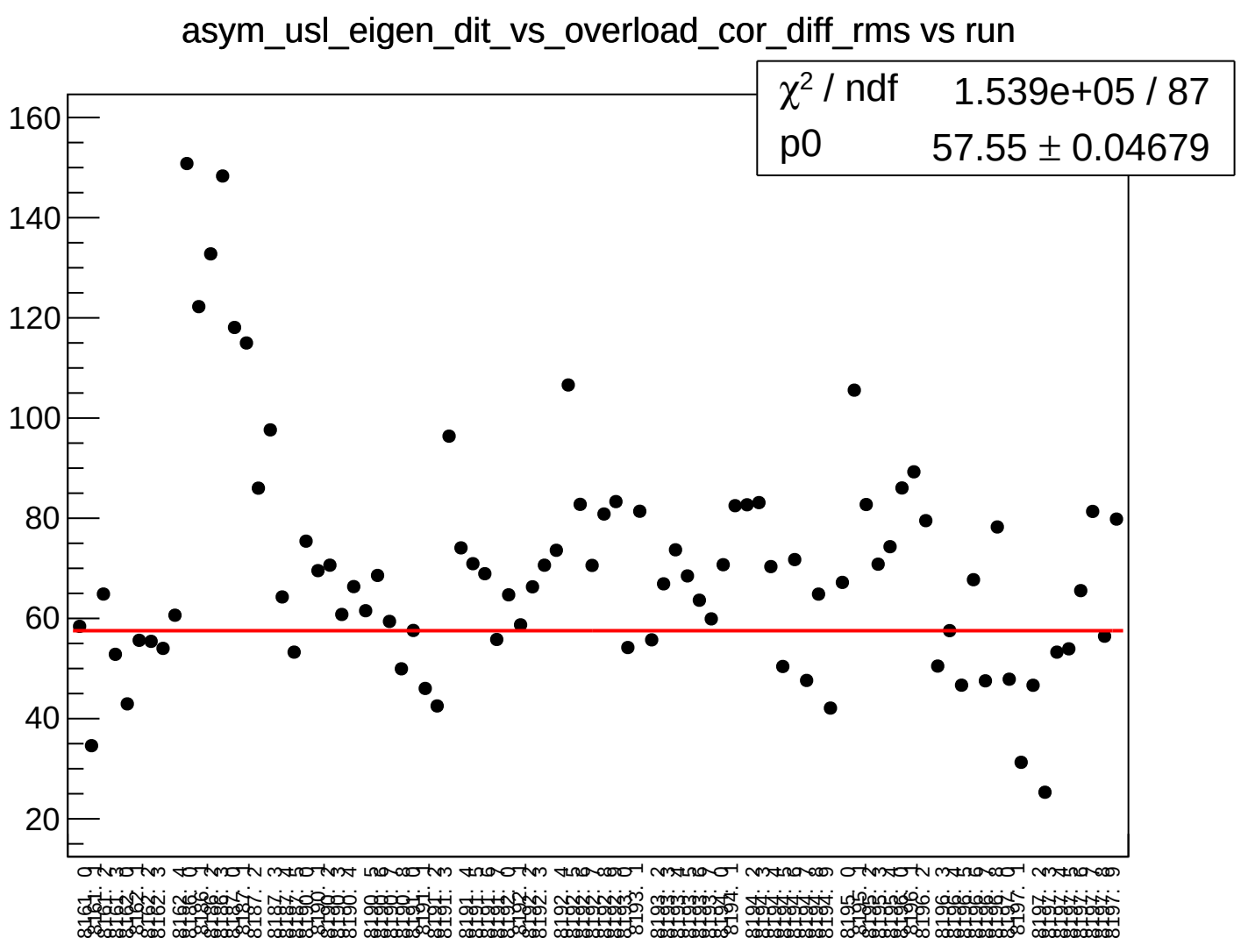

pull1D
Entries 88
Mean 0.02935
Std Dev 0.9628

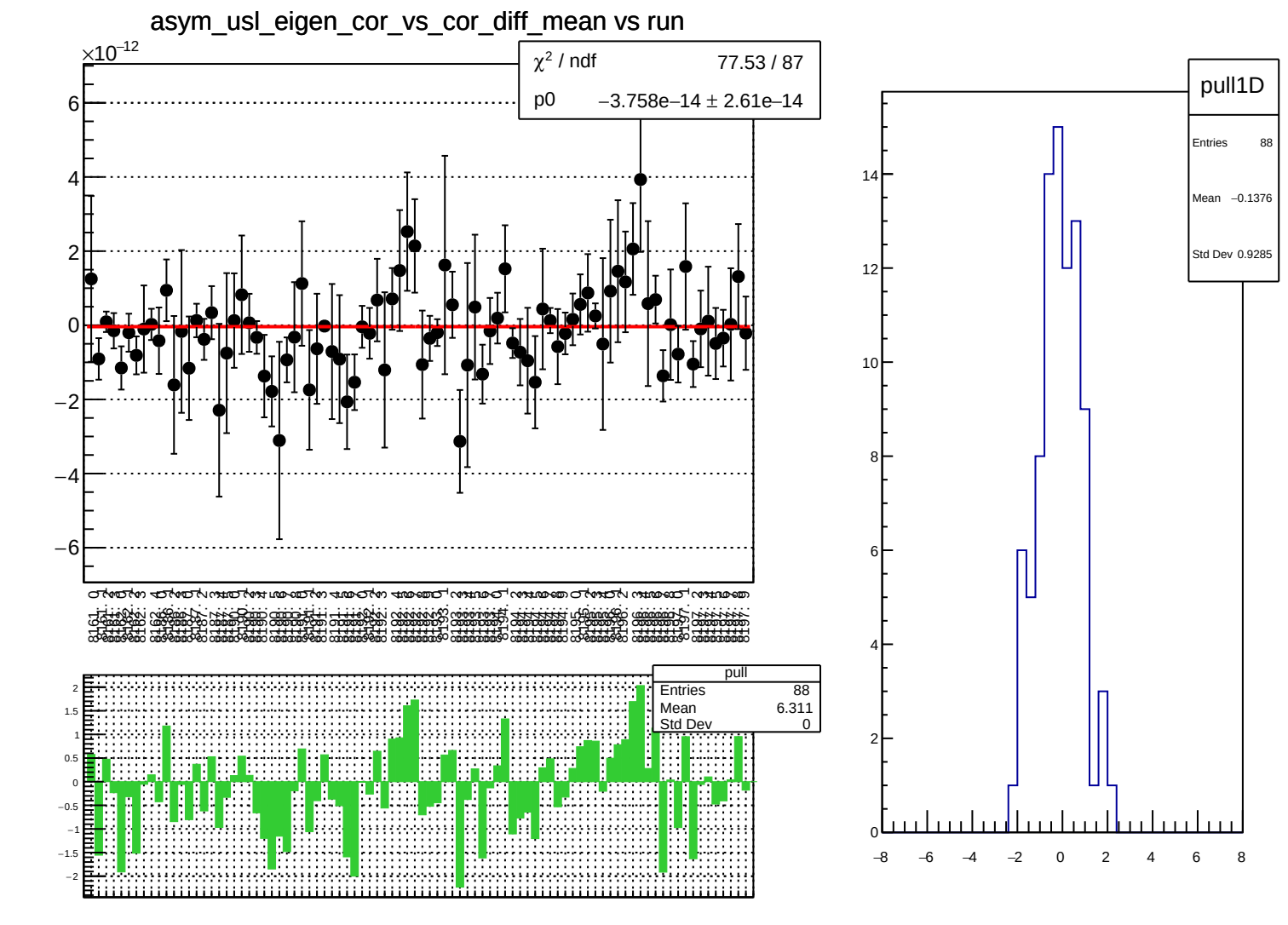

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.416e+05 / 87
p0 42.63 ± 0.03571
140
120
100
80
60
40
20

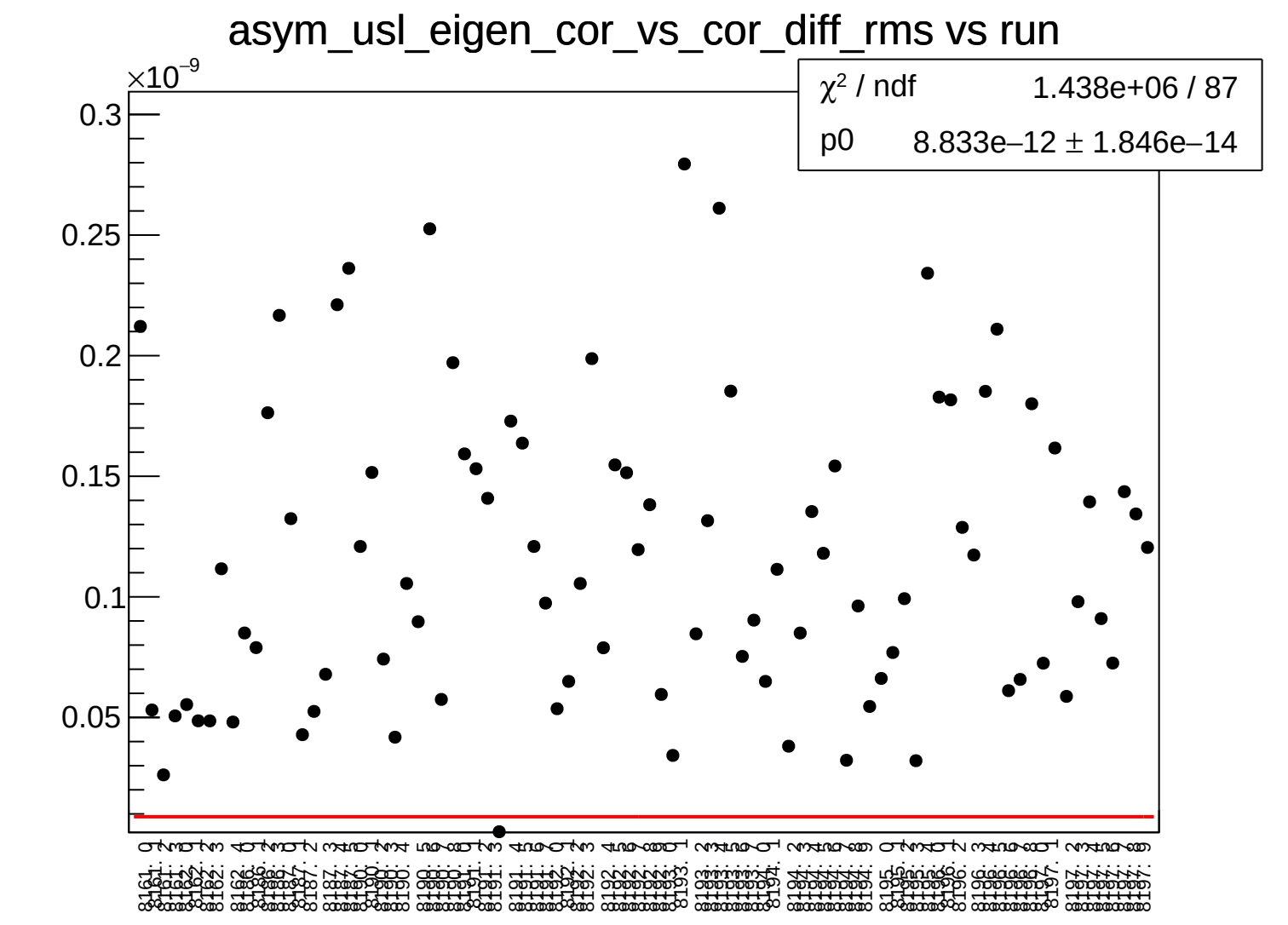

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.65 / 87
p0 −0.04343 ± 0.0505
pull
Entries 88
Mean 232.7
Std Dev 0
pull1D
Entries 88
Mean 0.02935
Std Dev 0.9628

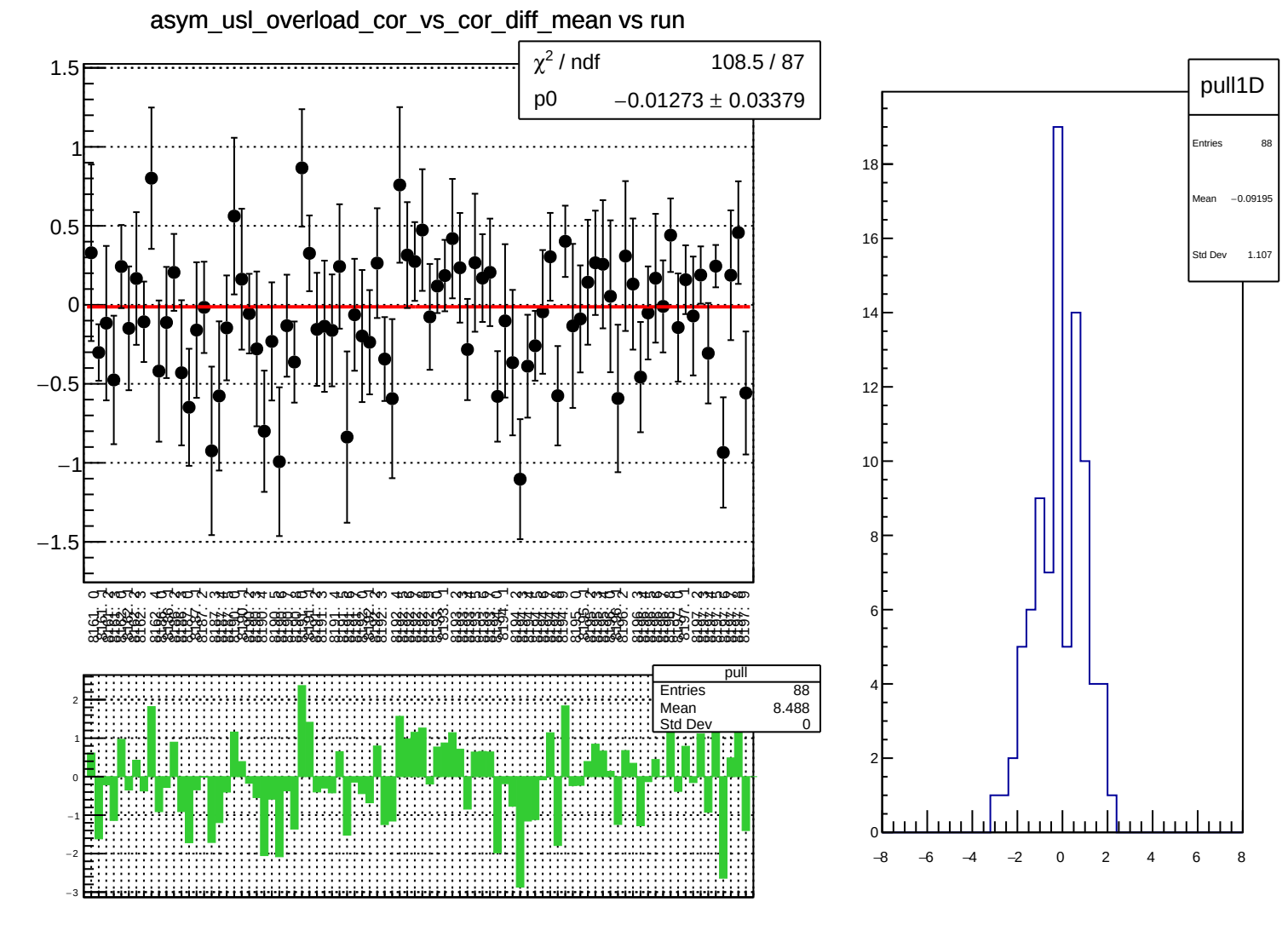

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.416e+05 / 87
p0 42.63 ± 0.03571
140
120
100
80
60
40
20

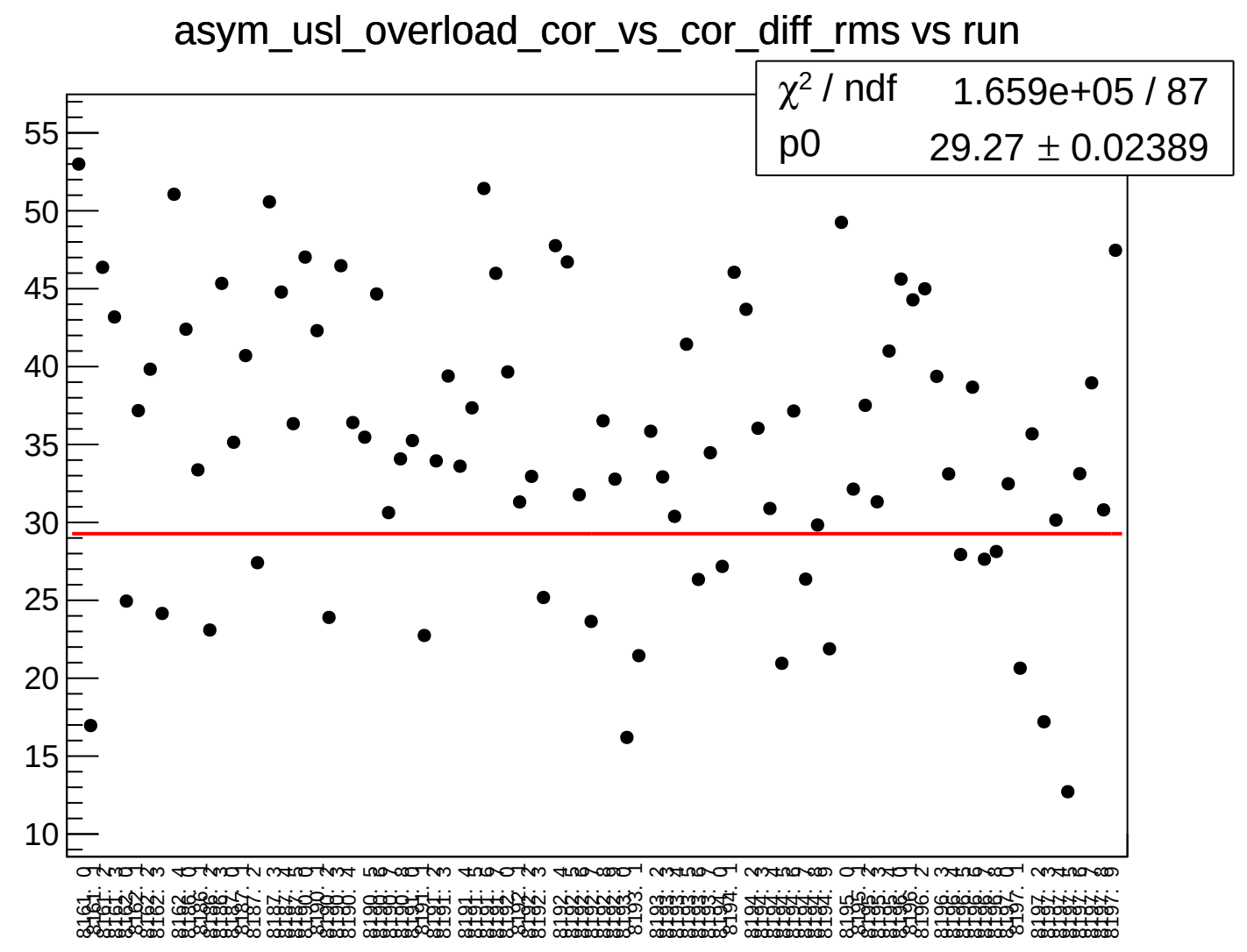

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 86.9 / 87
p0 0.03109 ± 0.06617
pull
Entries 88
Mean 330.3
Std Dev 0
pull1D
Entries 88
Mean 0.008278
Std Dev 0.9937

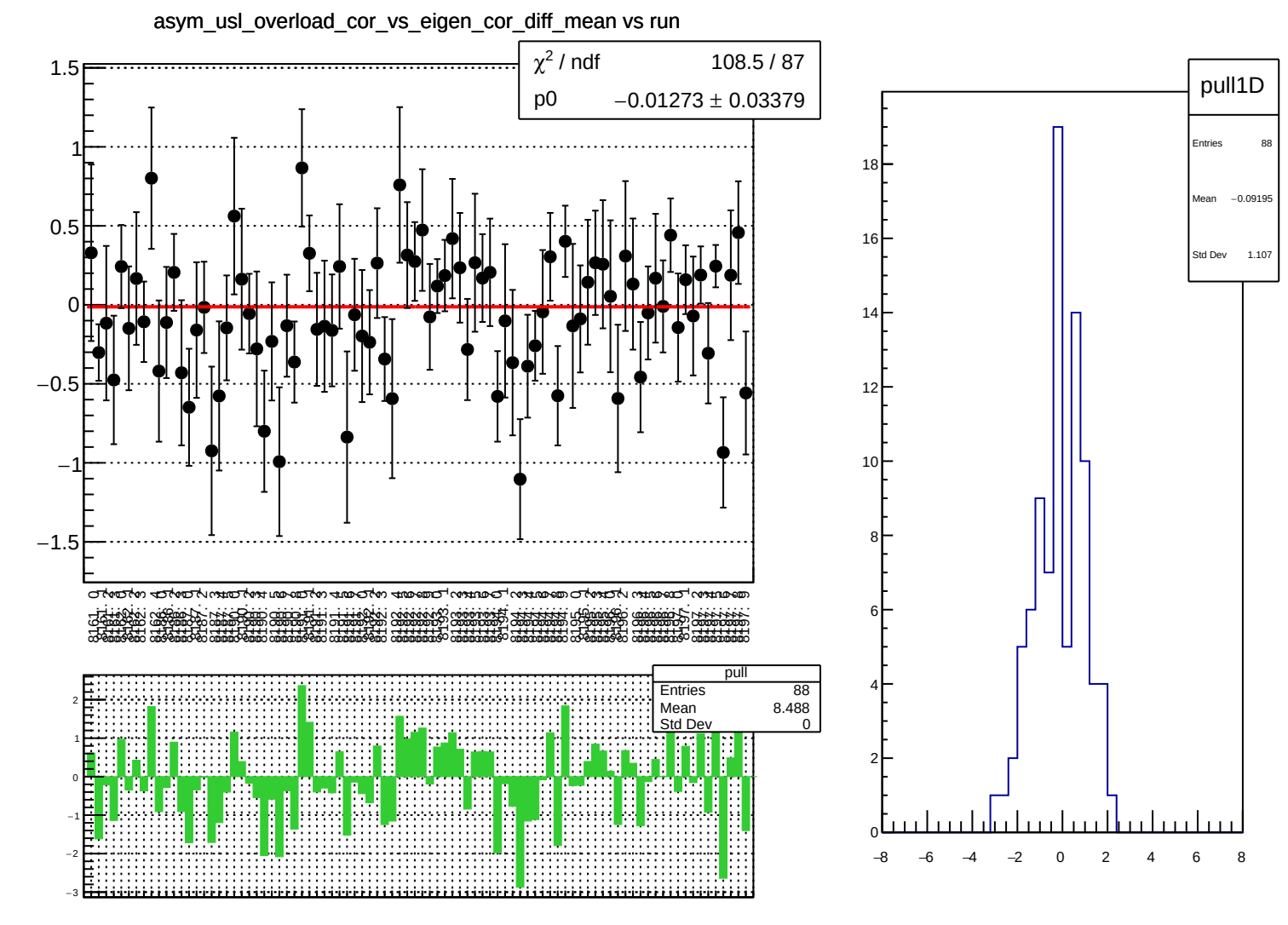

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.539e+05 / 87
p0 57.55 ± 0.04679
160
140
120
100
80
60
40
20

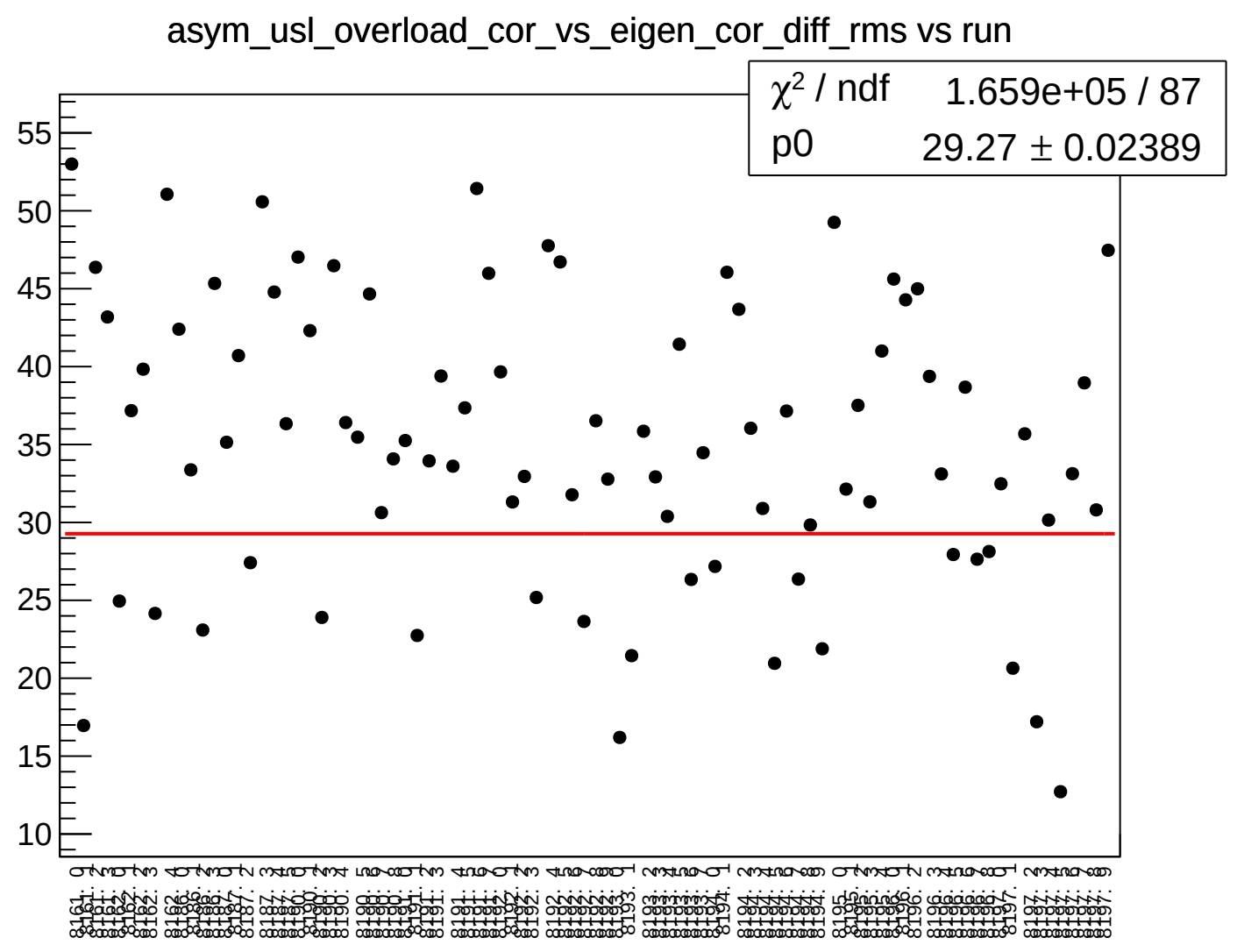

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.53 / 87
p0 −3.758e−14 ± 2.61e−14
pull
Entries 88
Mean 6.311
Std Dev 0
pull1D
Entries 88
Mean −0.1376
Std Dev 0.9285

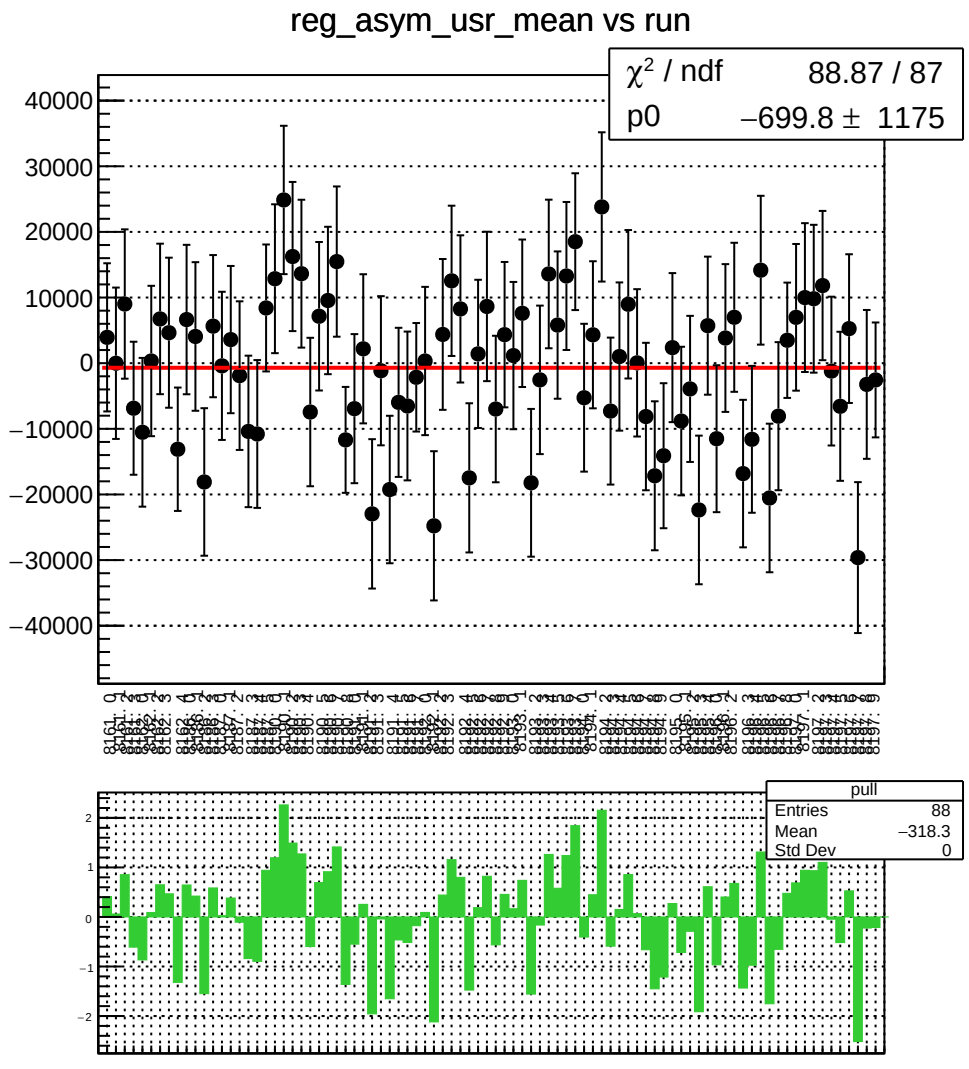

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.438e+06 / 87
p0 8.833e−12 ± 1.846e−14
0.3
0.25
0.2
0.15
0.1
0.05

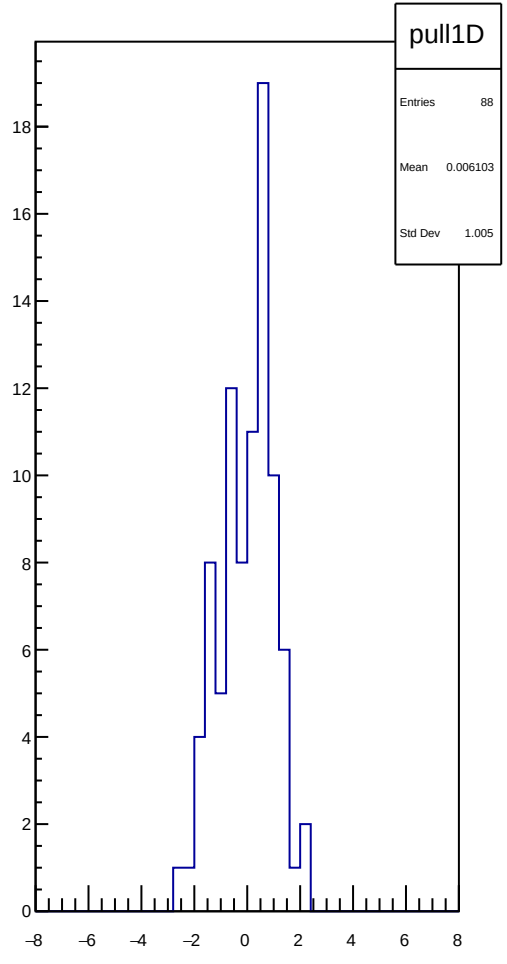

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 108.5 / 87
p0 −0.01273 ± 0.03379
pull
Entries 88
Mean 8.488
Std Dev 0
pull1D
Entries 88
Mean −0.09195
Std Dev 1.107

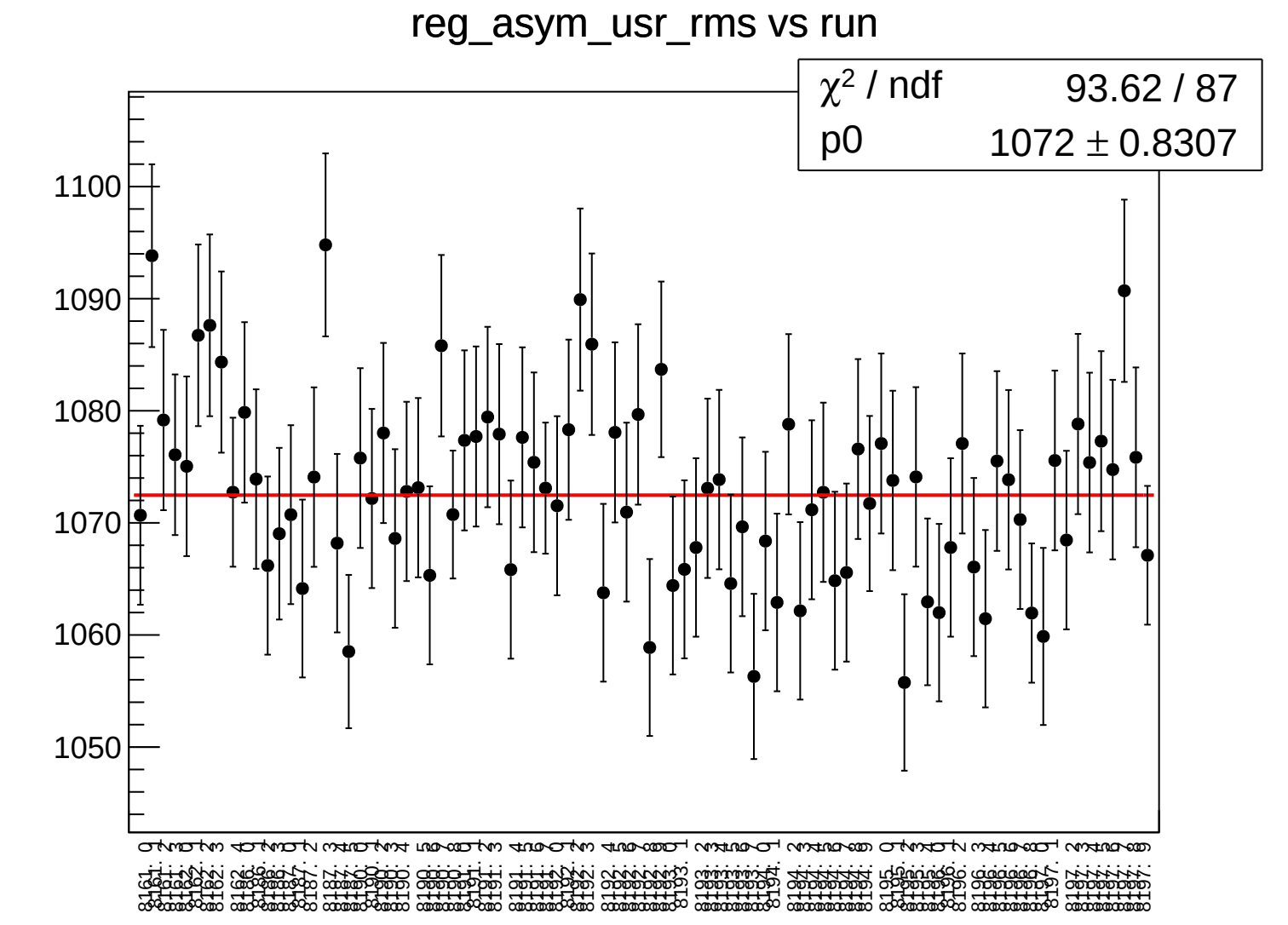

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 87
p0 29.27 ± 0.02389
55
50
45
40
35
30
25
20
15
10

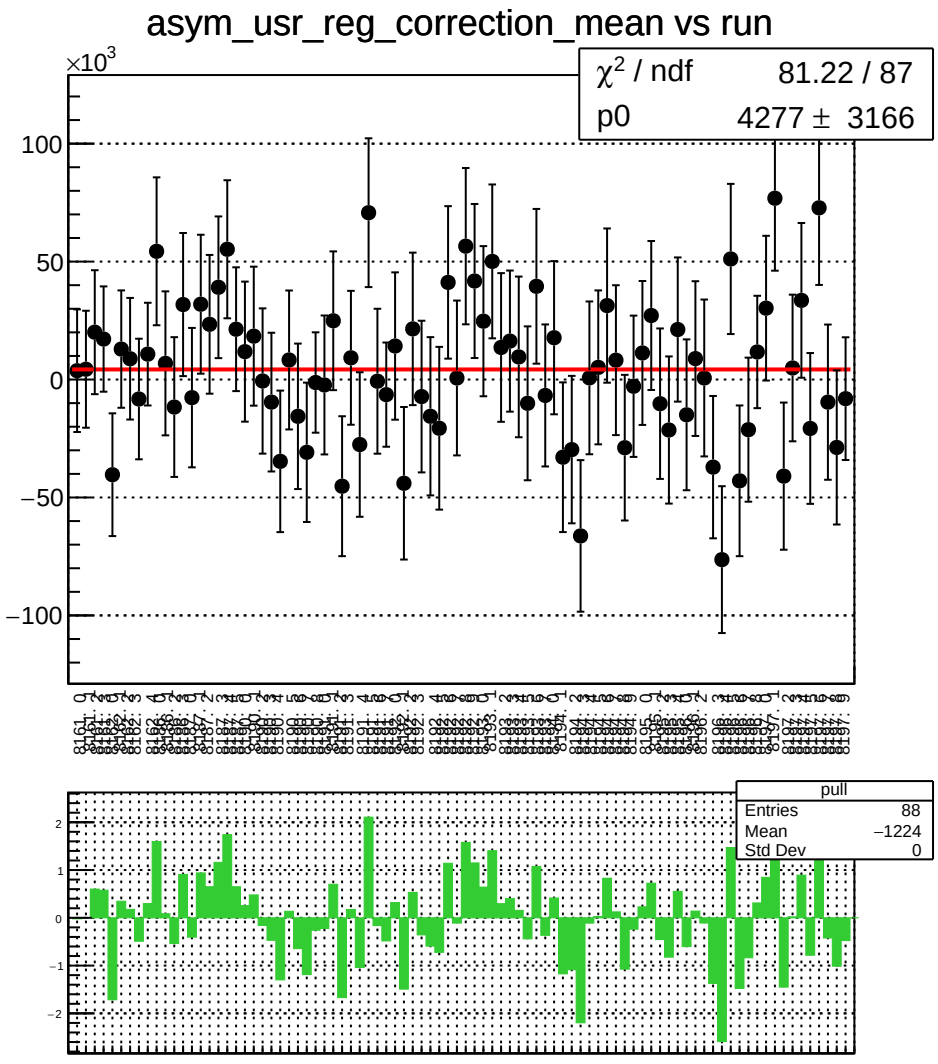

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.5 / 87
p0 −0.01273 ± 0.03379
pull
Entries 88
Mean 8.488
Std Dev 0
pull1D
Entries 88
Mean −0.09195
Std Dev 1.107

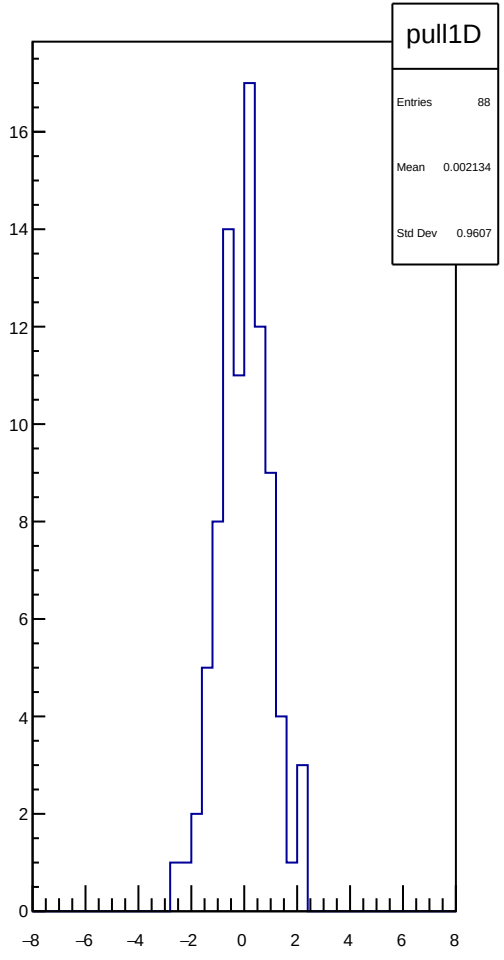

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 87
p0 29.27 ± 0.02389
55
50
45
40
35
30
25
20
15
10

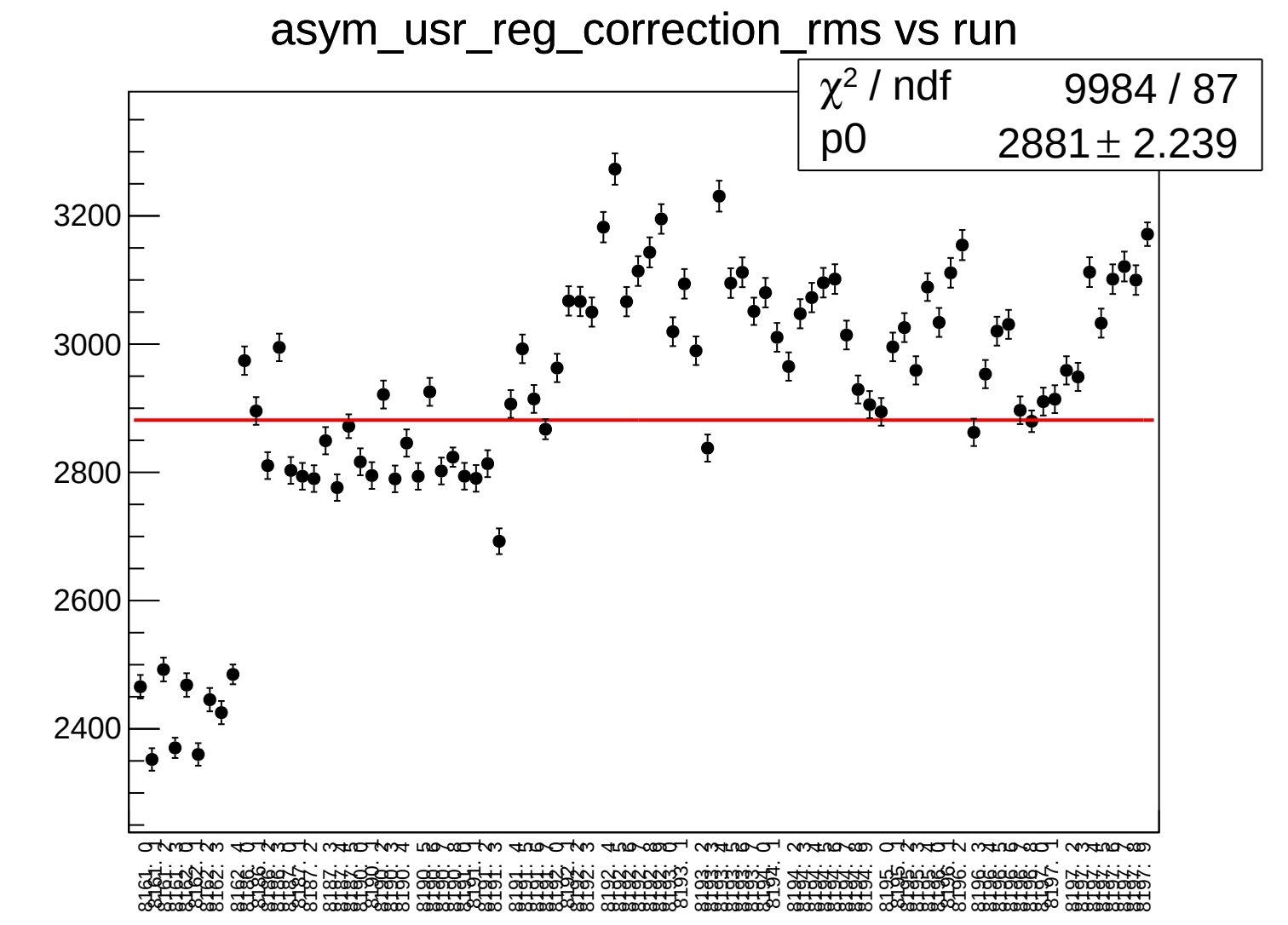

reg_asym_usr_mean vs run
χ² / ndf 88.87 / 87
p0 −699.8 ± 1175
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −318.3
Std Dev 0
2
1
0
−1
−2

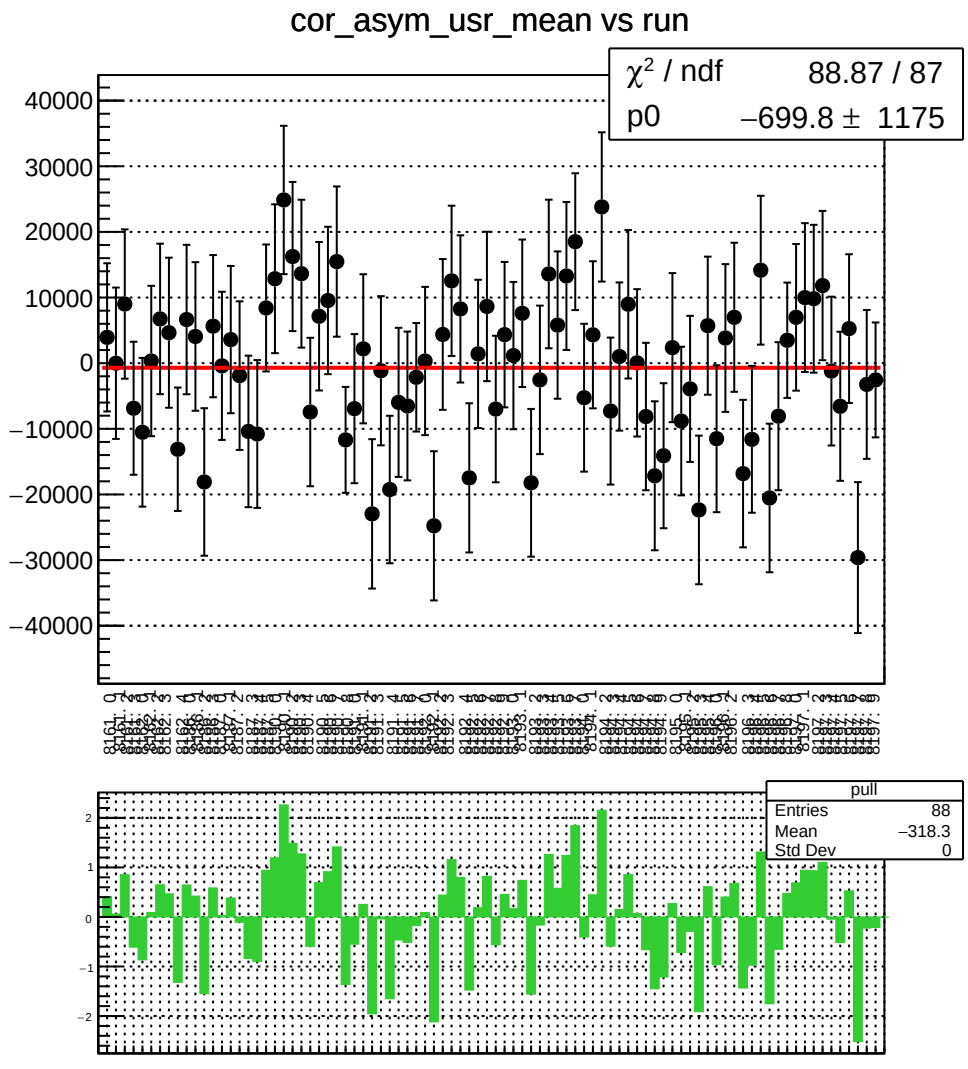

pull1D
Entries 88
Mean 0.006103
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

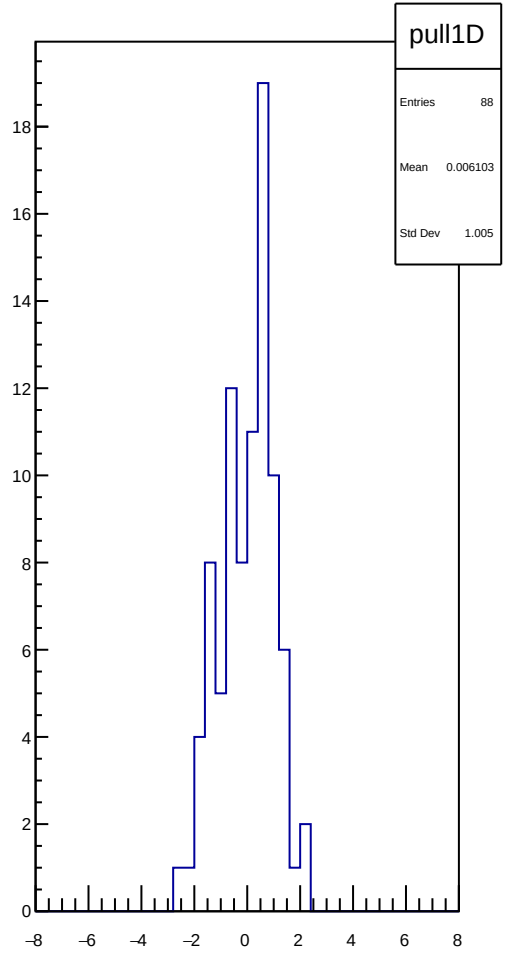

reg_asym_usr_rms vs run
χ² / ndf 93.62 / 87
p0 1072 ± 0.8307
1100
1090
1080
1070
1060
1050


asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 81.22 / 87
p0 4277 ± 3166
100
50
0
−50
−100
pull
Entries 88
Mean −1224
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.002134
Std Dev 0.9607
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 9984 / 87
p0 2881 ± 2.239
3200
3000
2800
2600
2400


cor_asym_usr_mean vs run
χ² / ndf 88.87 / 87
p0 −699.8 ± 1175
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −318.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.006103
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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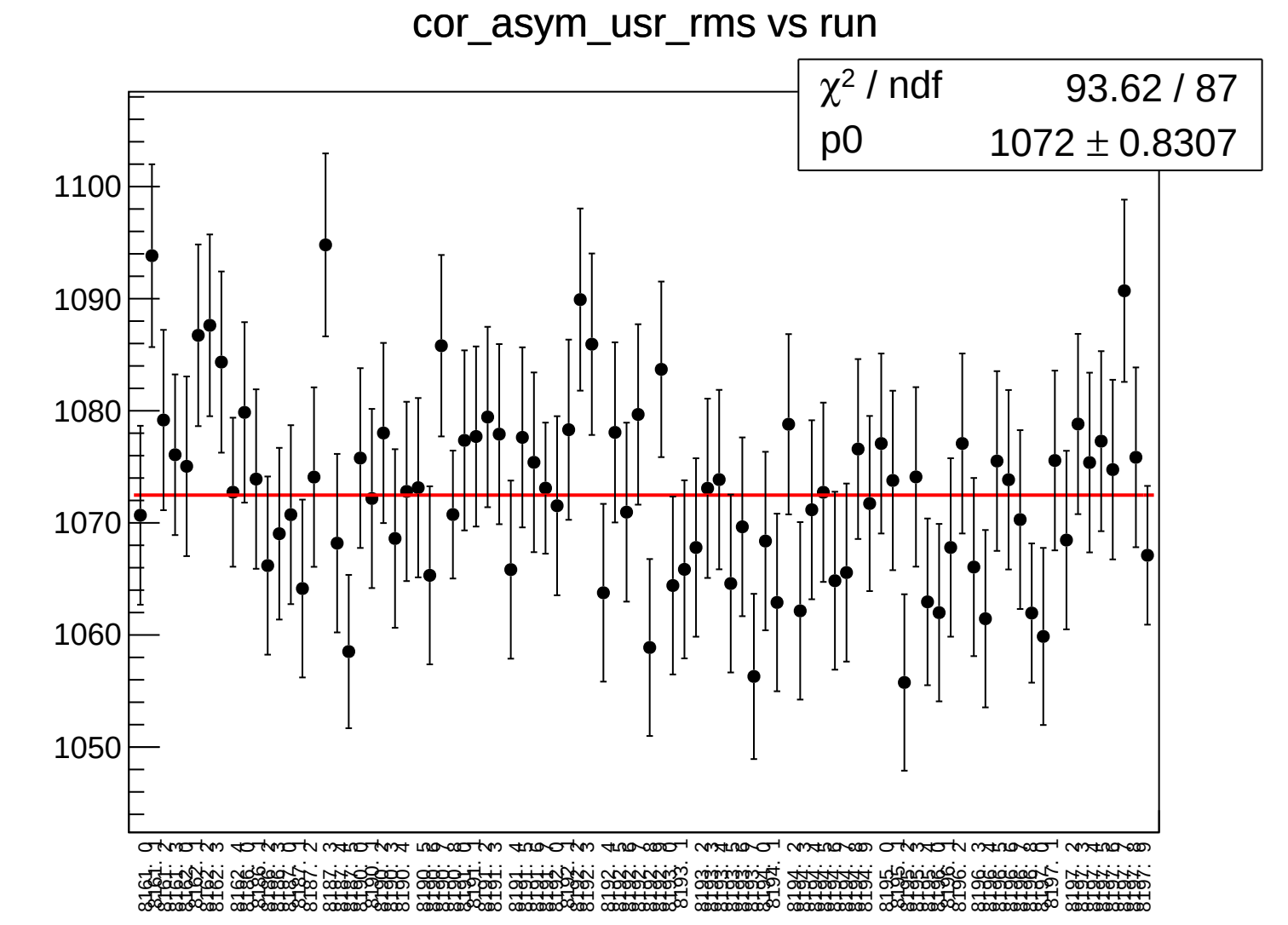
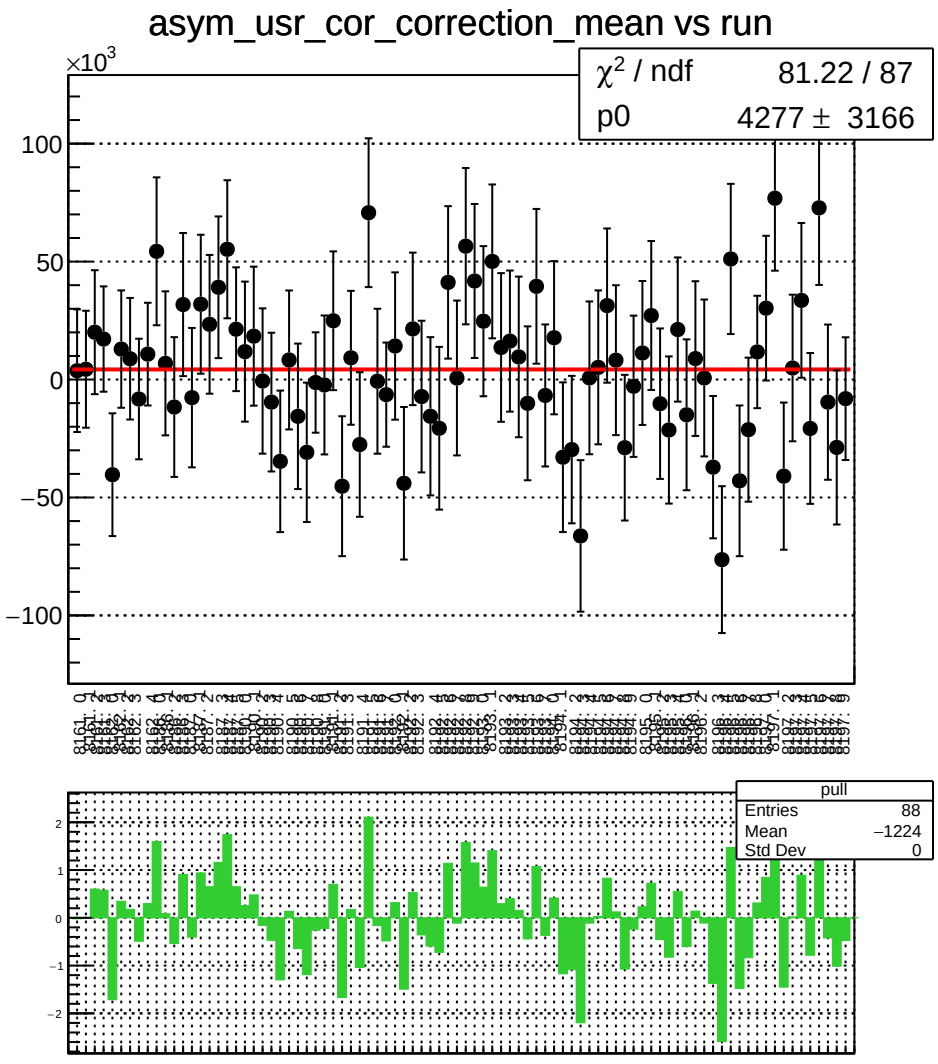
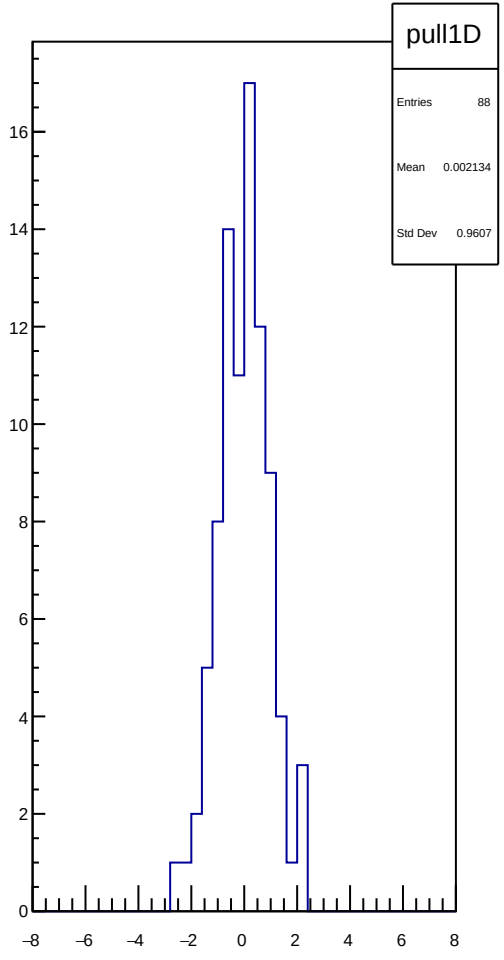
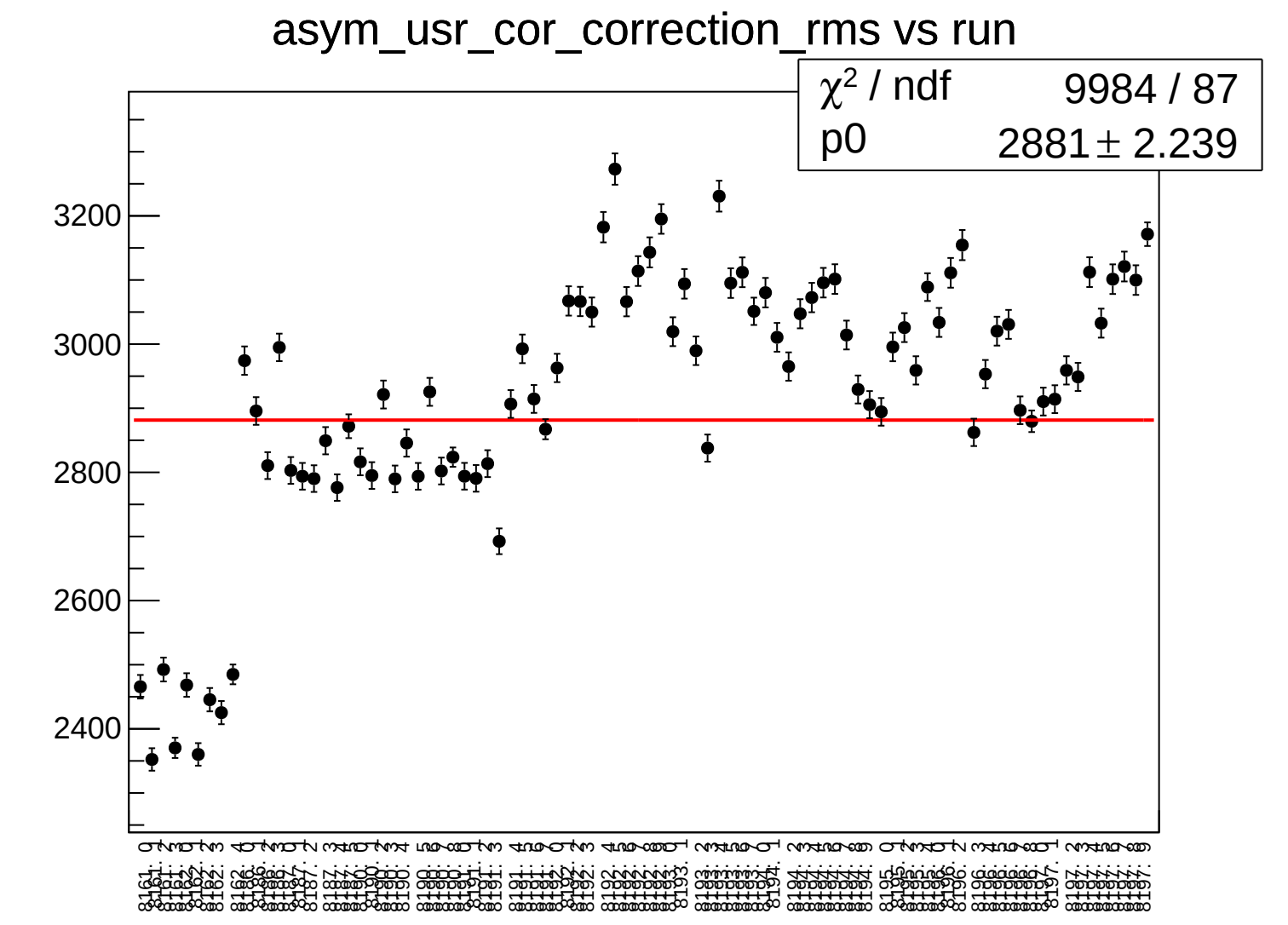
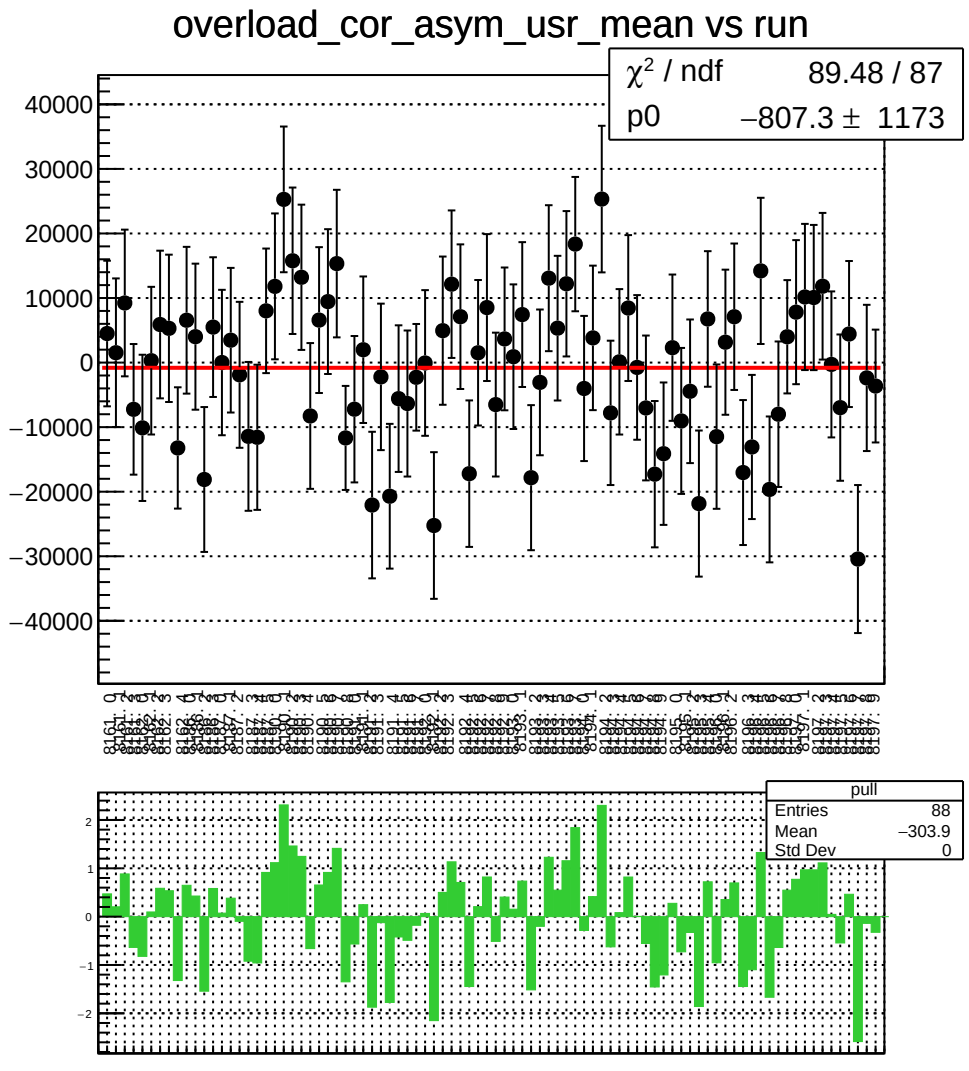
0
2
4
6
8

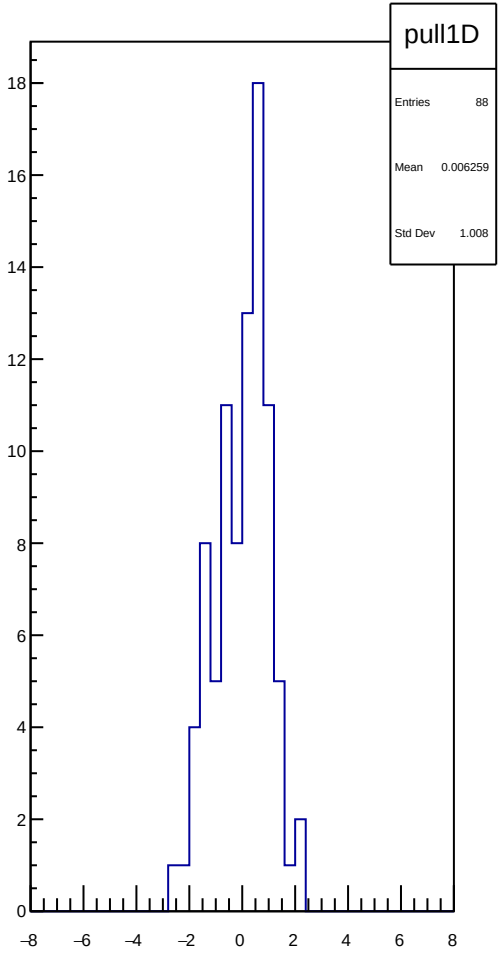

cor_asym_usr_rms vs run
χ^2 / ndf 93.62 / 87
p0 1072 ± 0.8307
1100
1090
1080
1070
1060
1050

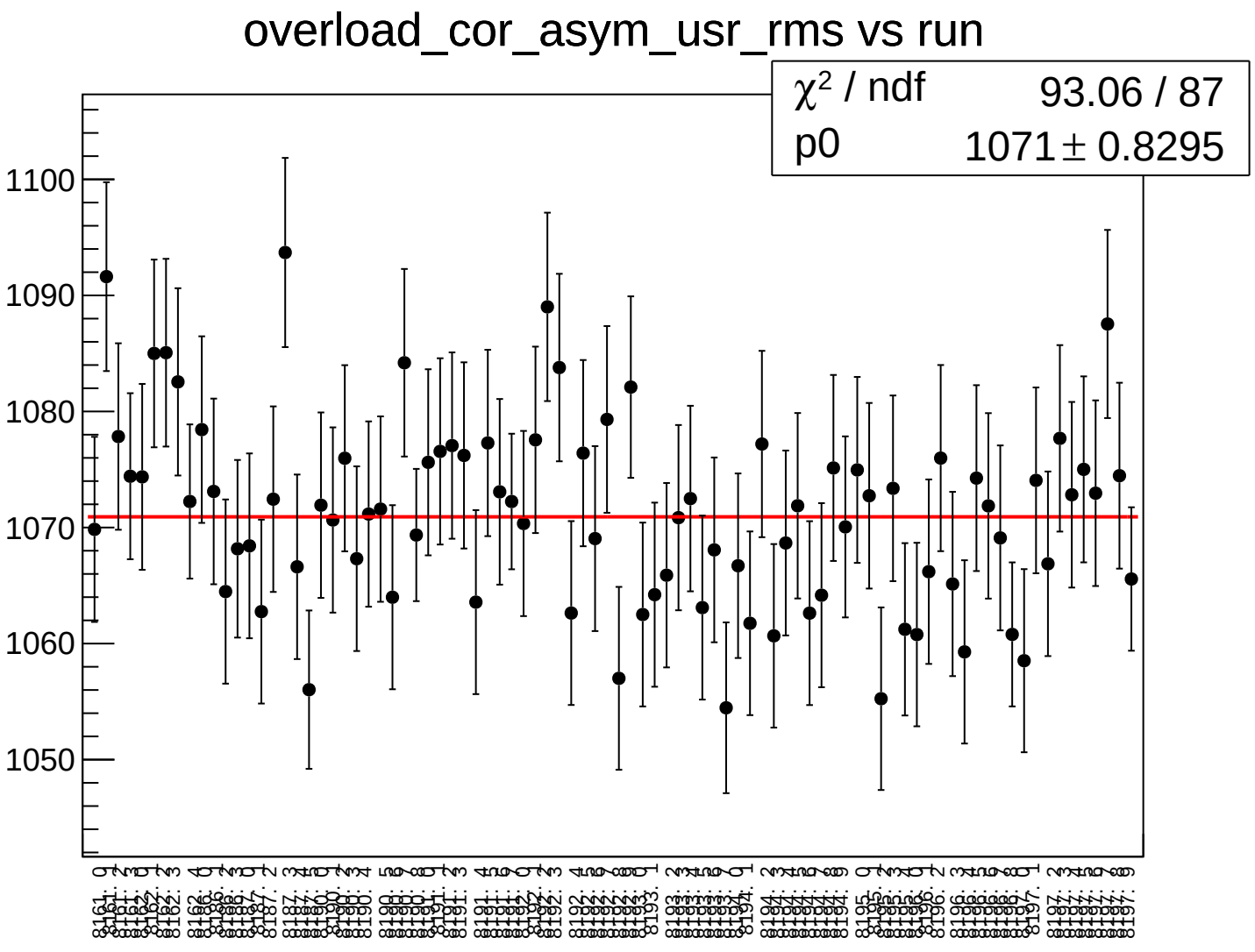

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 81.22 / 87
p0 4277 ± 3166
100
50
0
−50
−100
pull
Entries 88
Mean −1224
Std Dev 0
2
1
0
−1
−2

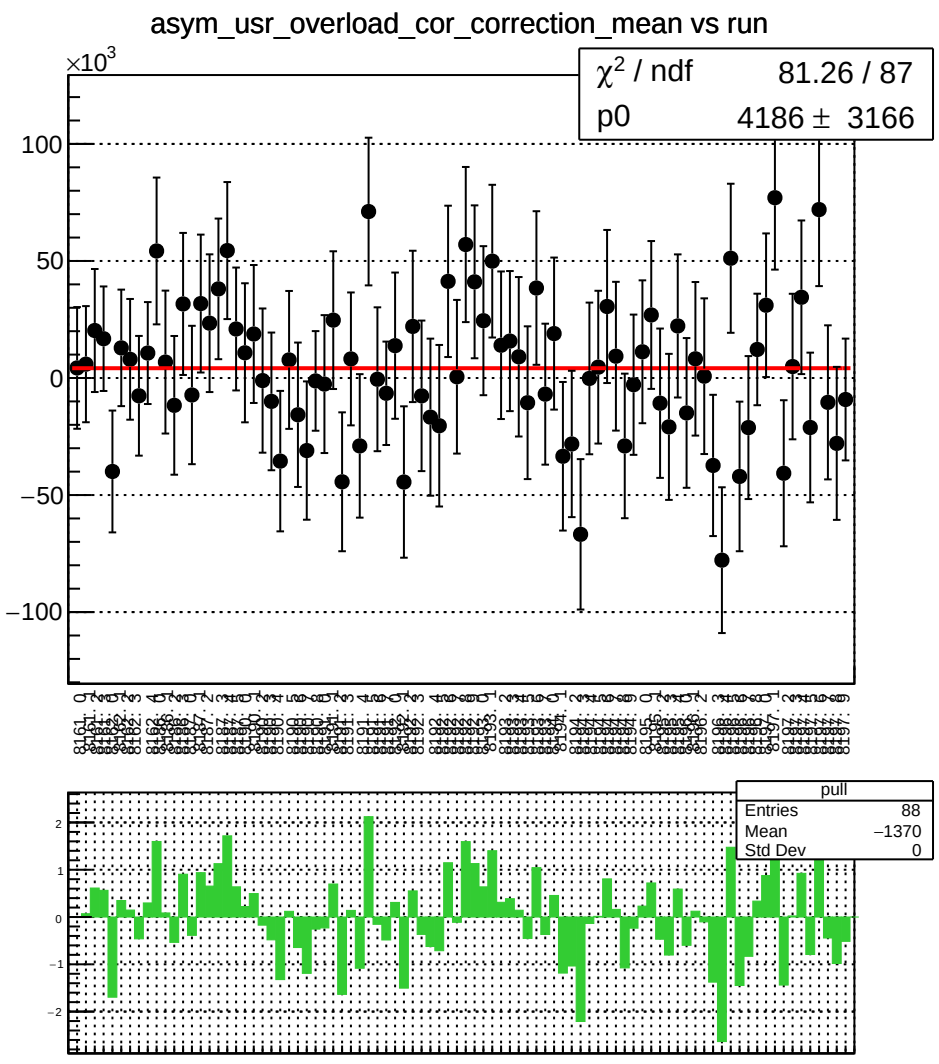

pull1D
Entries 88
Mean 0.002134
Std Dev 0.9607
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

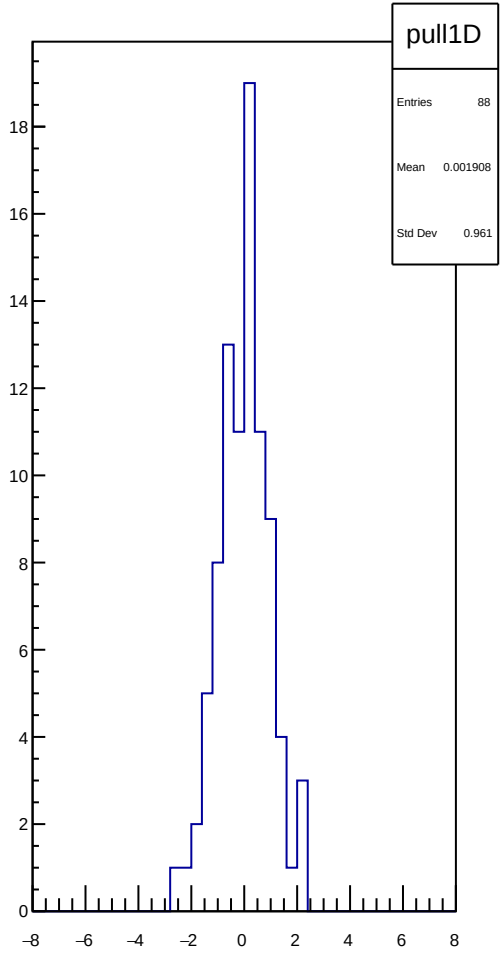

asym_usr_cor_correction_rms vs run
χ² / ndf 9984 / 87
p0 2881 ± 2.239
3200
3000
2800
2600
2400

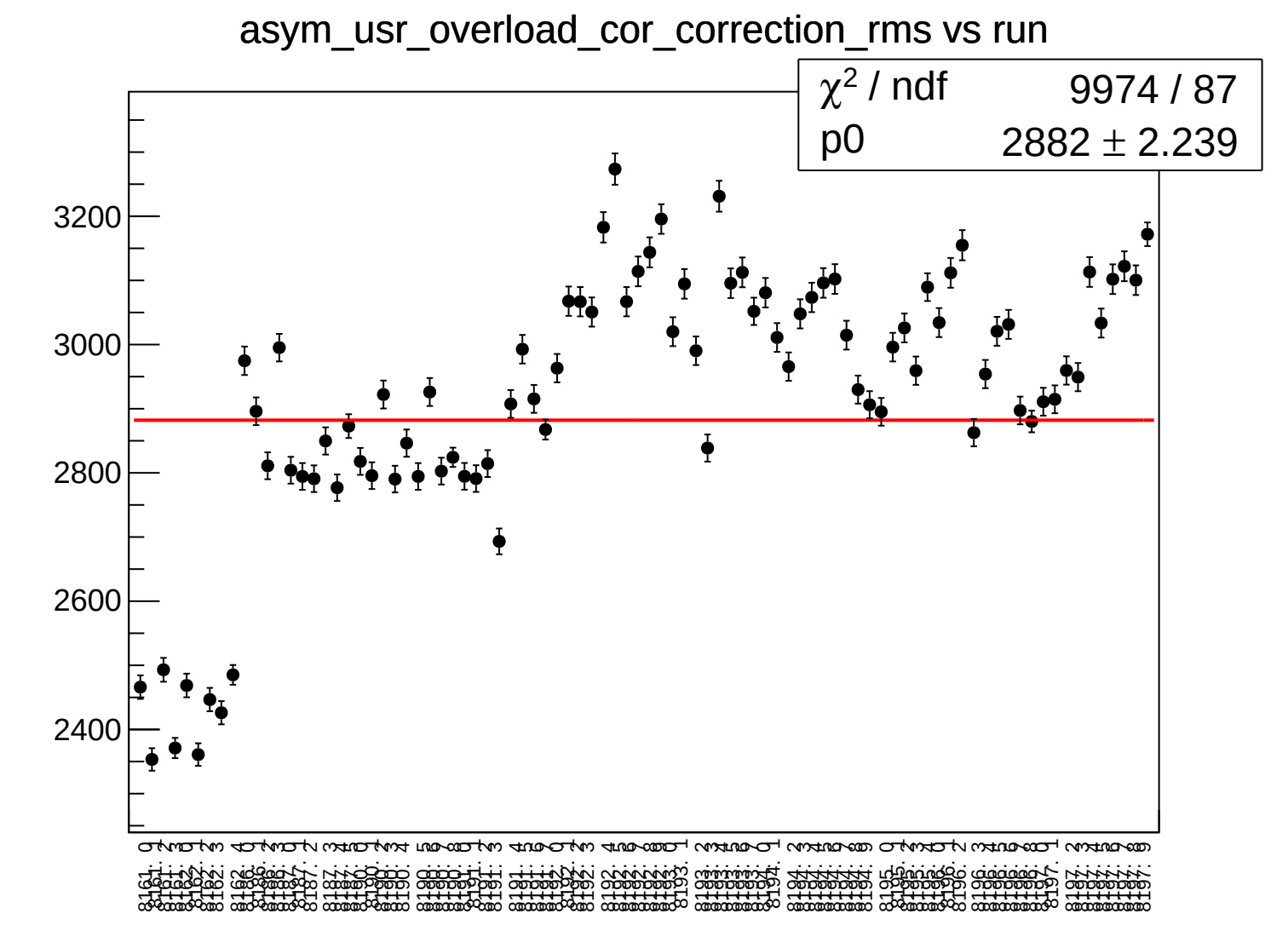

overload_cor_asym_usr_mean vs run
χ² / ndf 89.48 / 87
p0 −807.3 ± 1173
pull
Entries 88
Mean −303.9
Std Dev 0

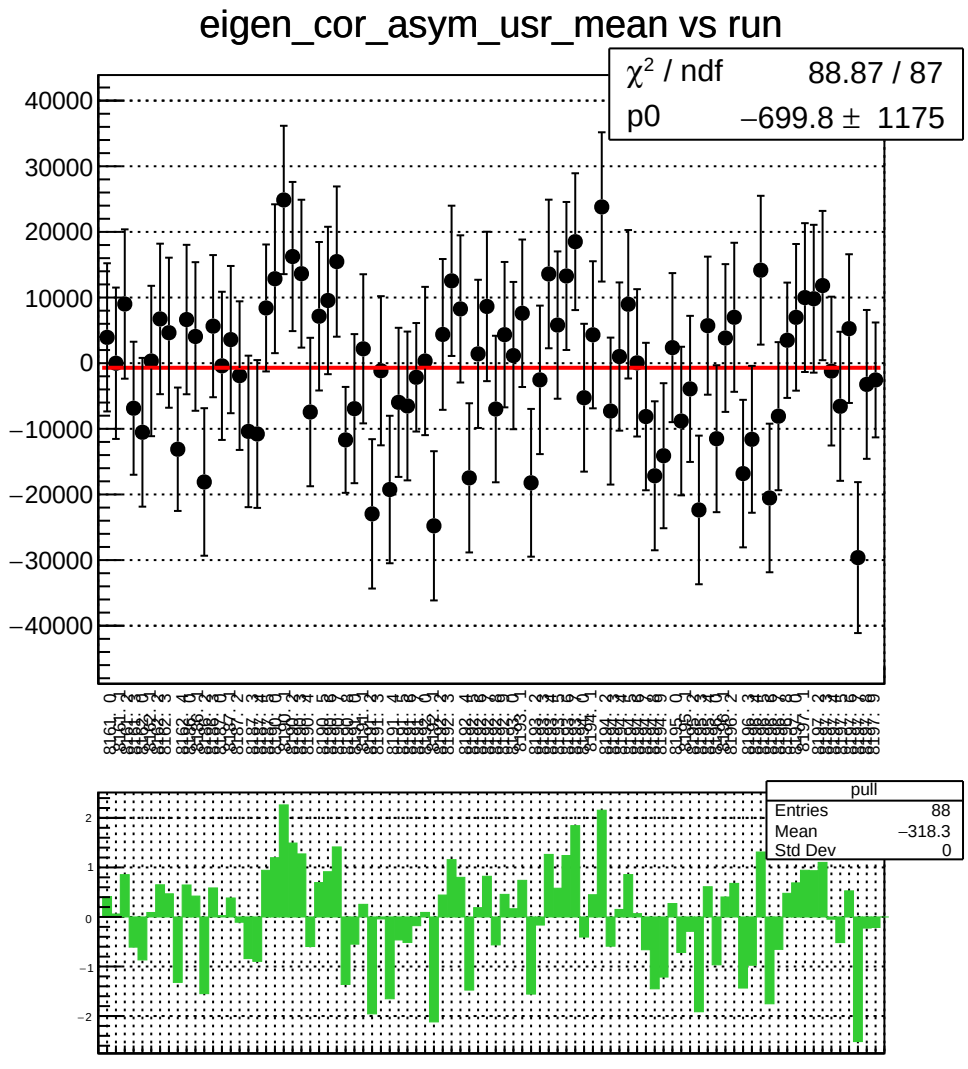

pull1D
Entries 88
Mean 0.006259
Std Dev 1.008

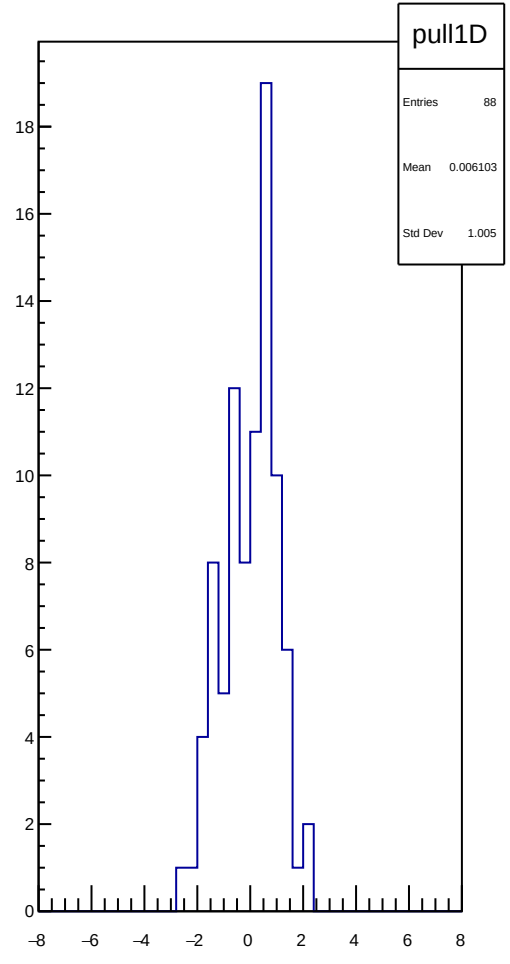

overload_cor_asym_usr_rms vs run
χ² / ndf 93.06 / 87
p0 1071 ± 0.8295
1100
1090
1080
1070
1060
1050

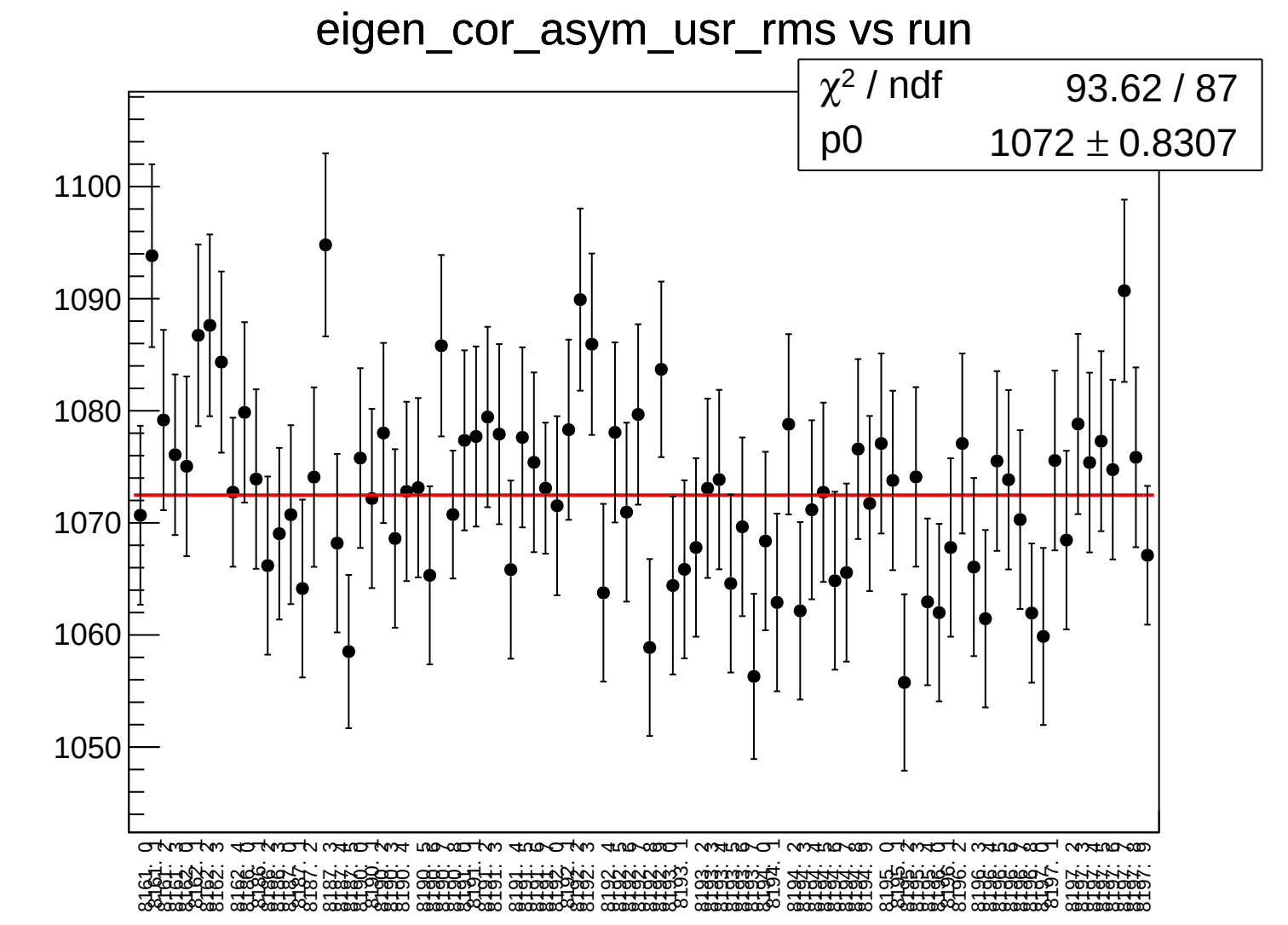

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 81.26 / 87
p0 4186 ± 3166
100
50
0
−50
−100
pull
Entries 88
Mean −1370
Std Dev 0
2
1
0
−1
−2

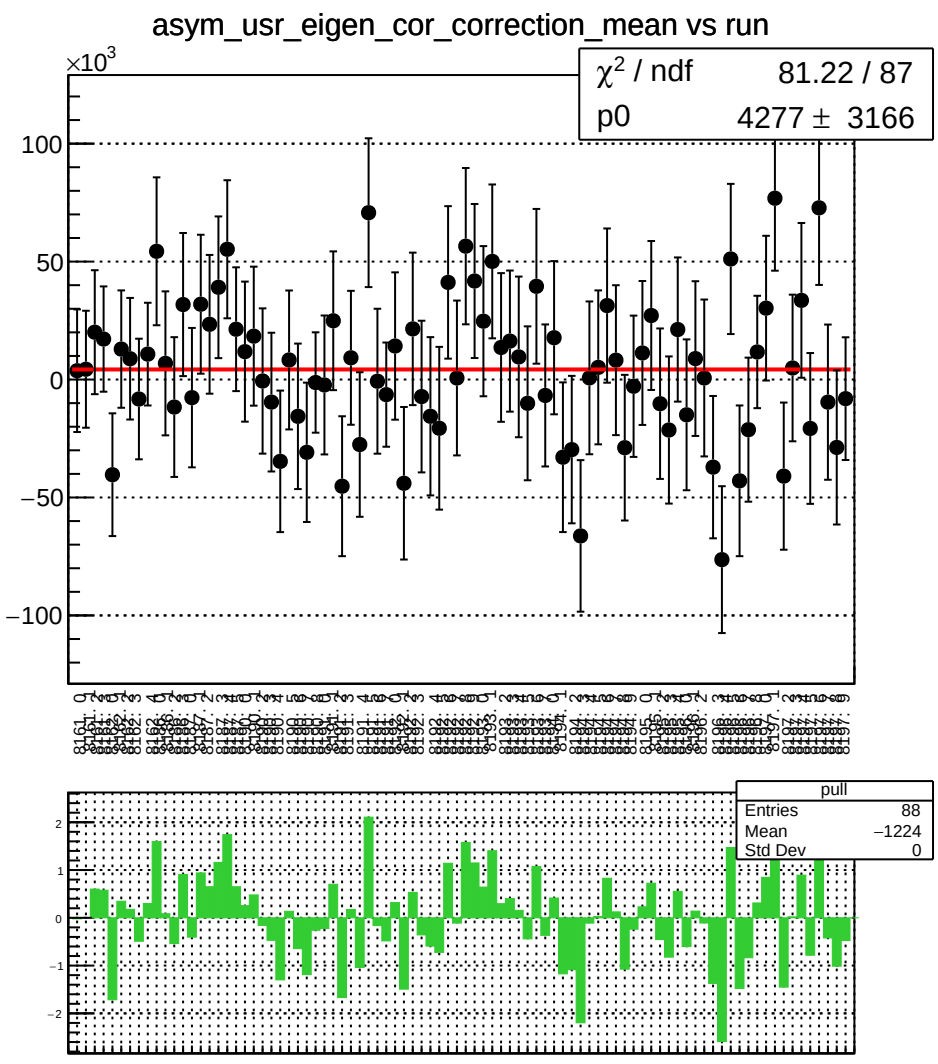

pull1D
Entries 88
Mean 0.001908
Std Dev 0.961
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

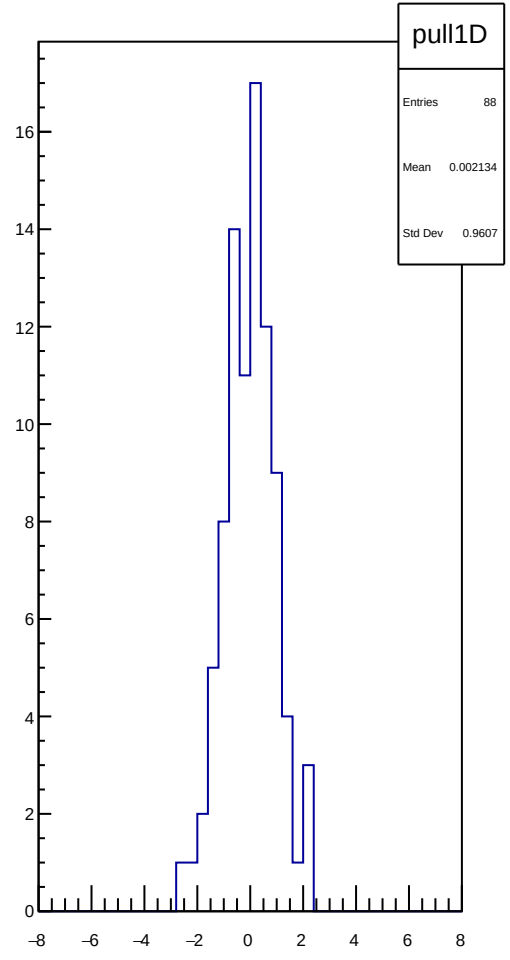

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 9974 / 87
p0 2882 ± 2.239
3200
3000
2800
2600
2400


eigen_cor_asym_usr_mean vs run
χ² / ndf 88.87 / 87
p0 −699.8 ± 1175
pull
Entries 88
Mean −318.3
Std Dev 0


pull1D
Entries 88
Mean 0.006103
Std Dev 1.005


eigen_cor_asym_usr_rms vs run
χ^2 / ndf 93.62 / 87
p0 1072 ± 0.8307
1100
1090
1080
1070
1060
1050


asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.22 / 87
p0 4277 ± 3166
100
50
0
−50
−100
pull
Entries 88
Mean −1224
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.002134
Std Dev 0.9607
16
14
12
10
8
6
4
2
0
−8
−6
−4
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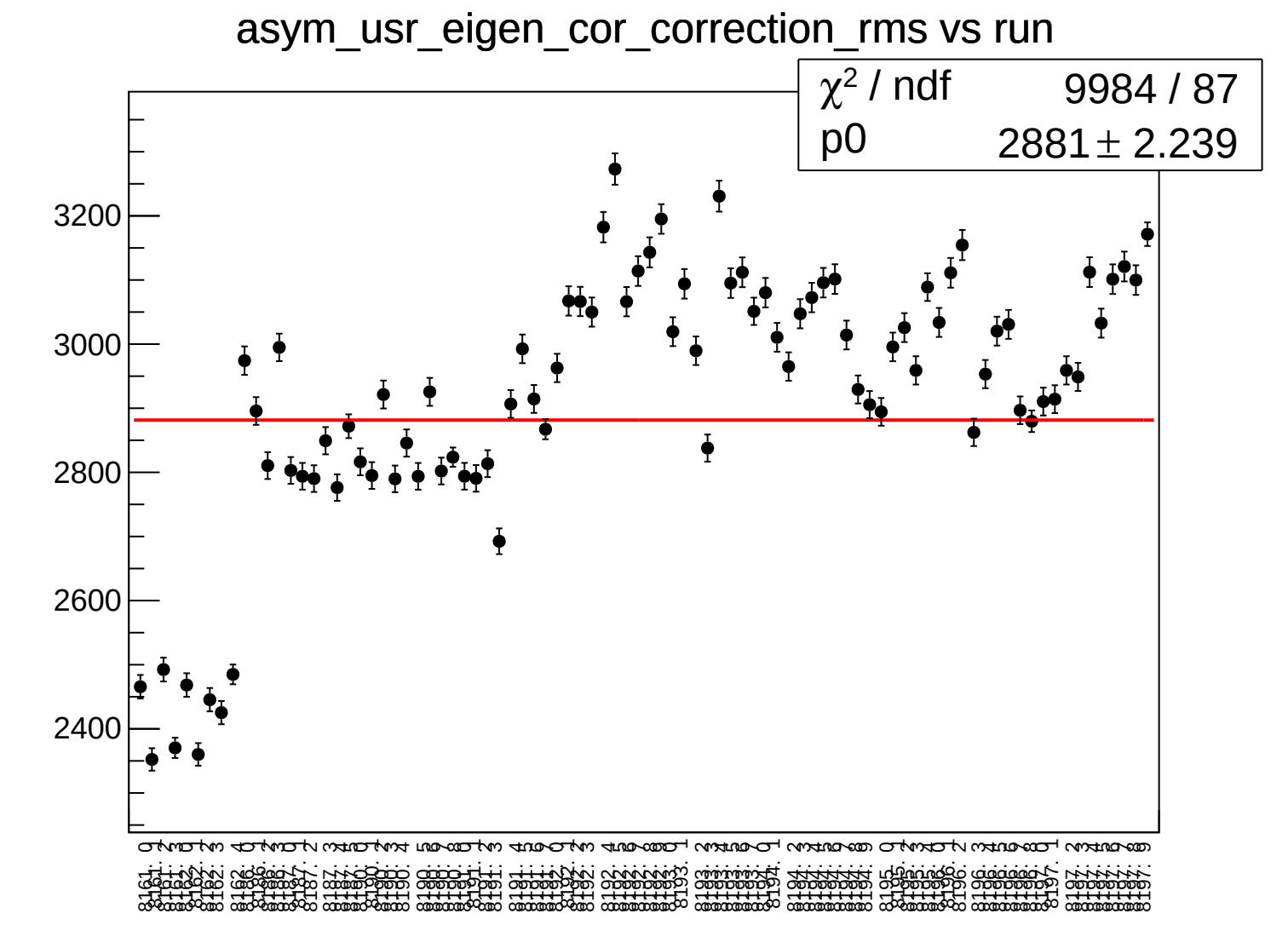
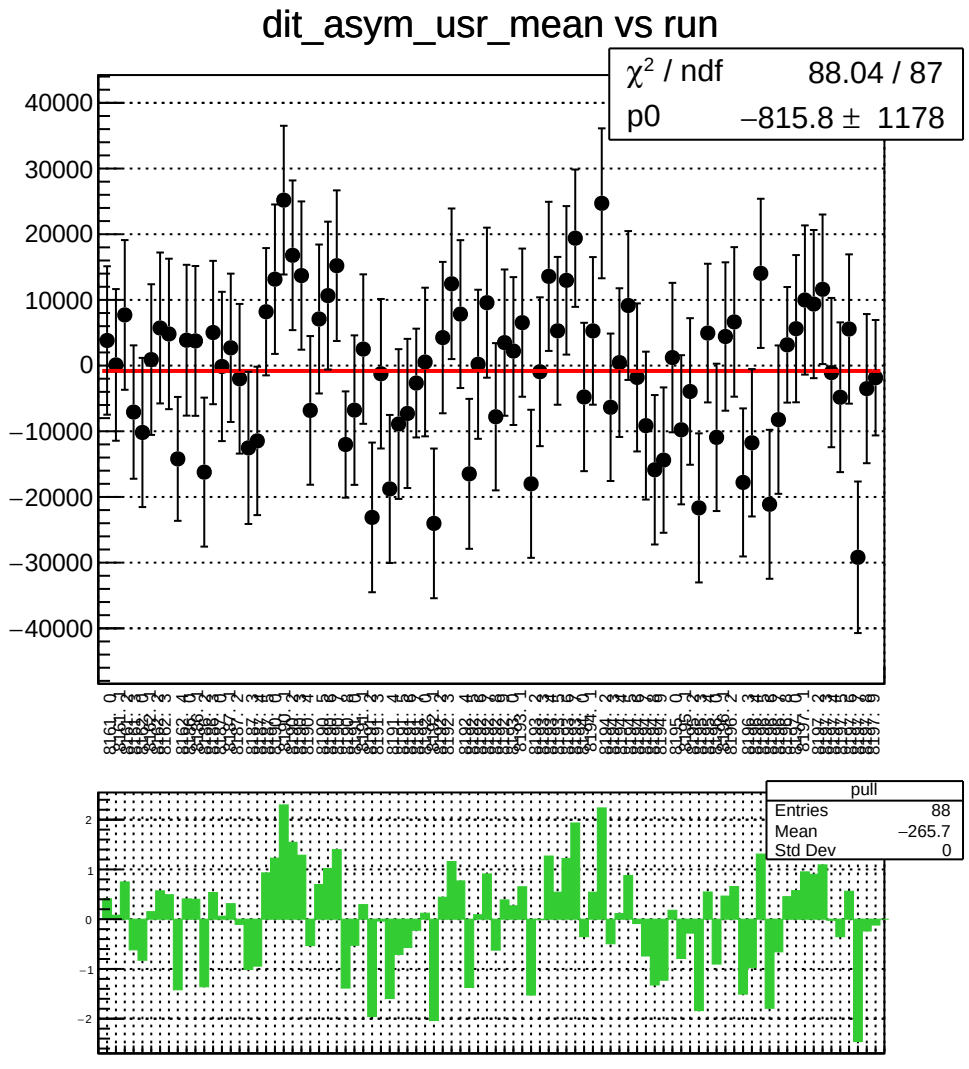
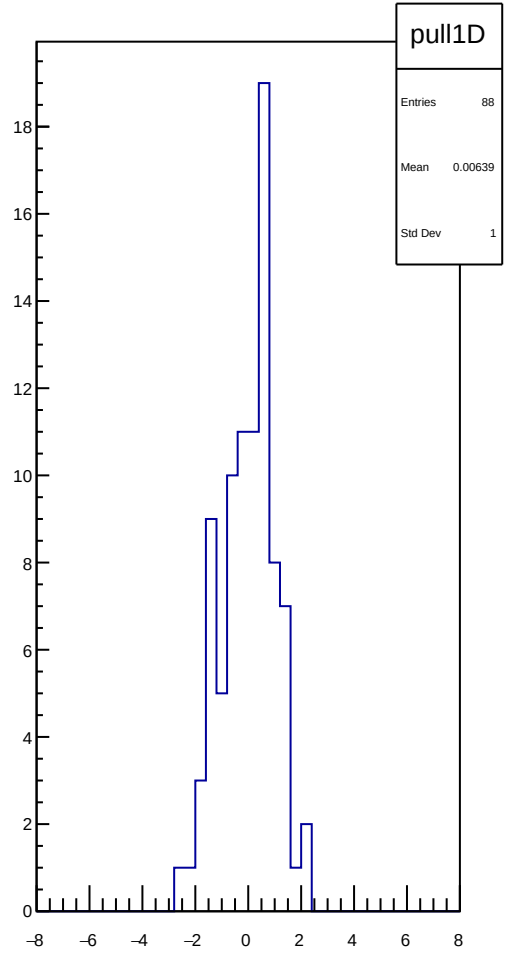
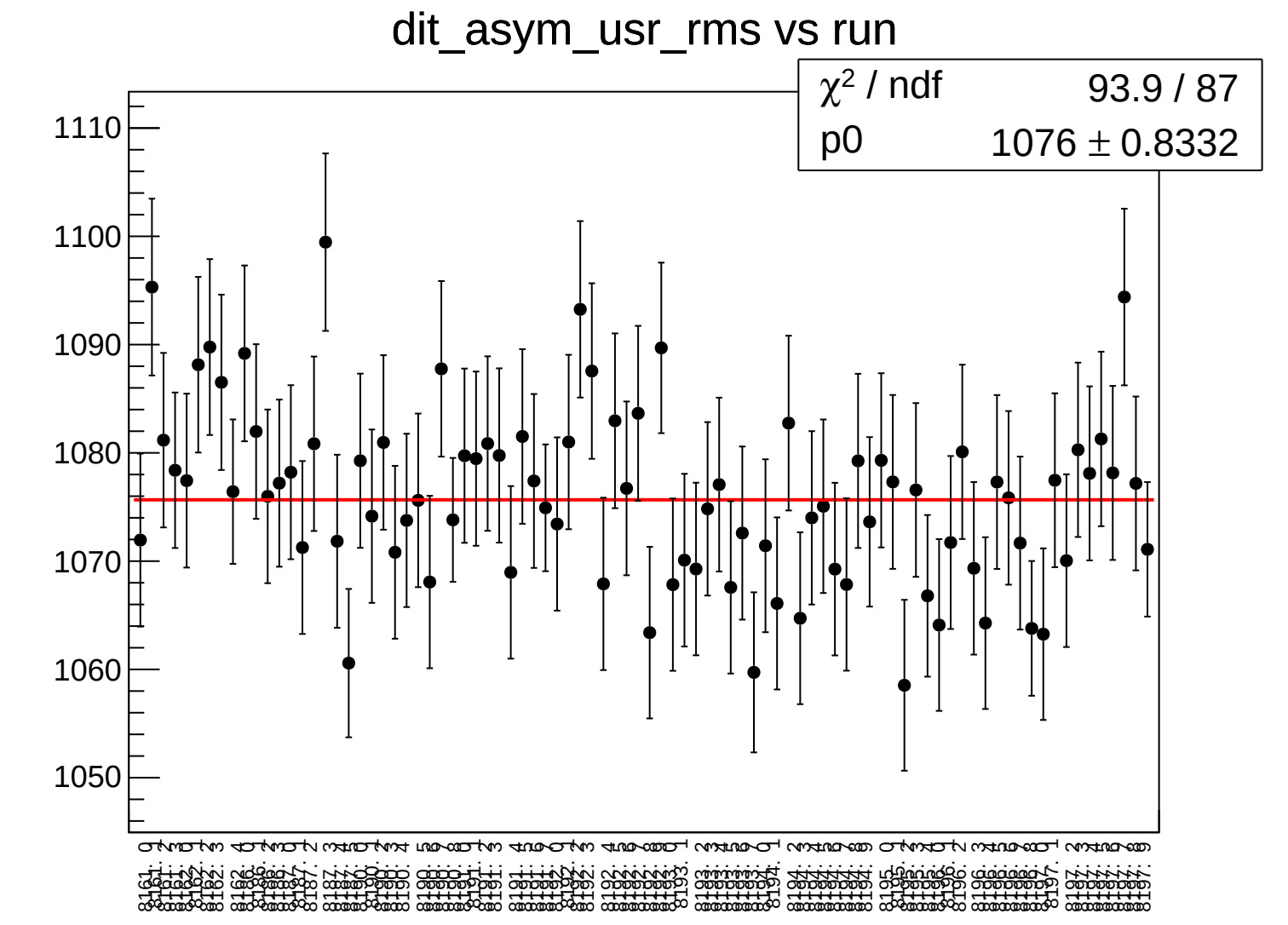
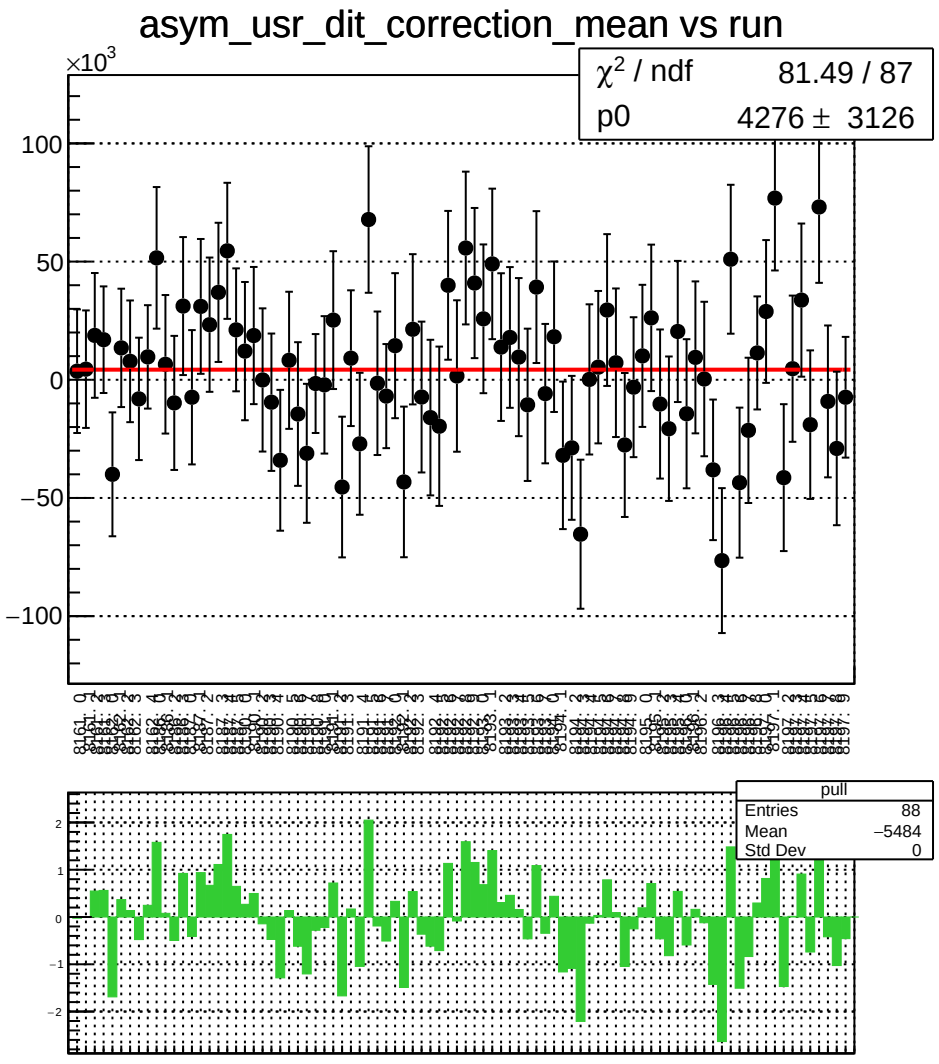
0
2
4
6
8

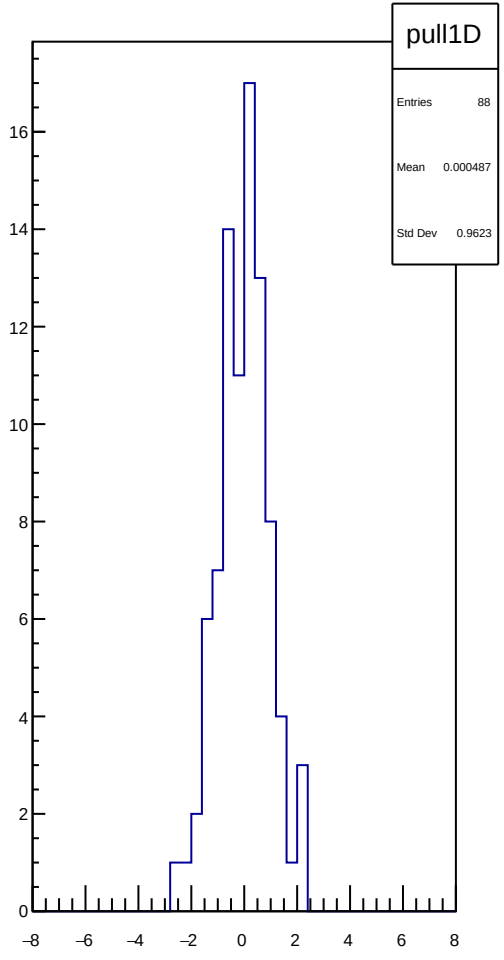

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 9984 / 87
p0 2881 ± 2.239
3200
3000
2800
2600
2400

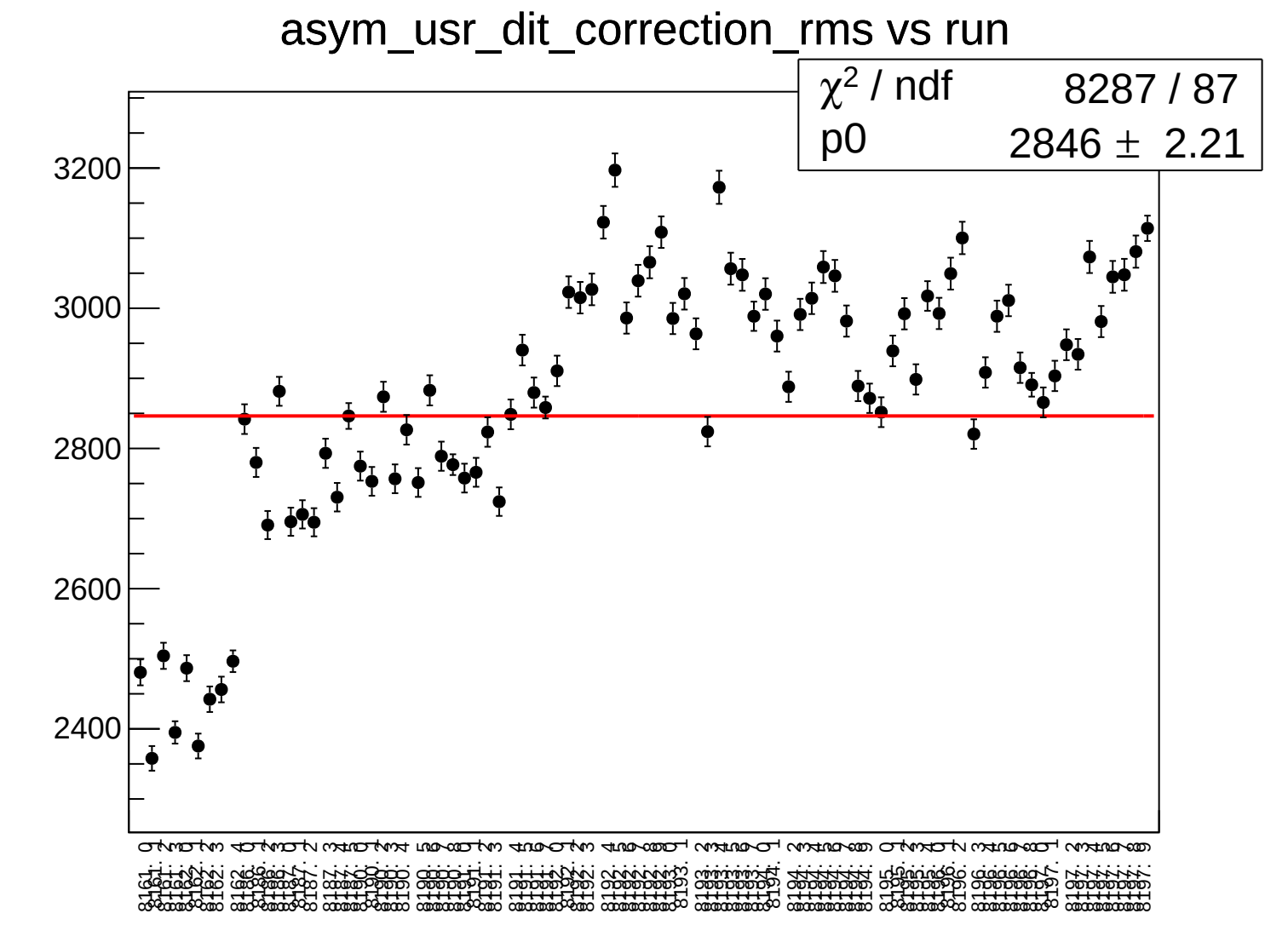

dit_asym_usr_mean vs run
χ² / ndf 88.04 / 87
p0 −815.8 ± 1178
pull
Entries 88
Mean −265.7
Std Dev 0

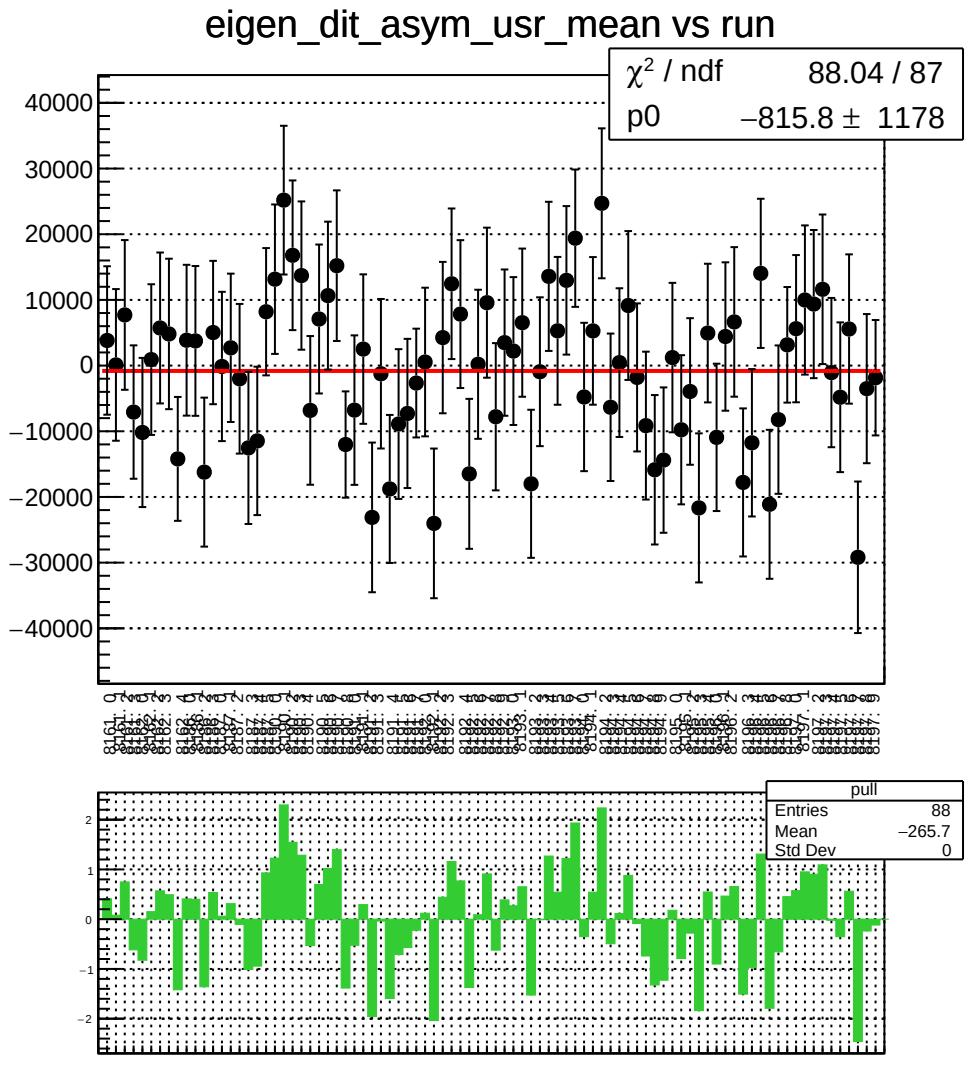

pull1D
Entries 88
Mean 0.00639
Std Dev 1

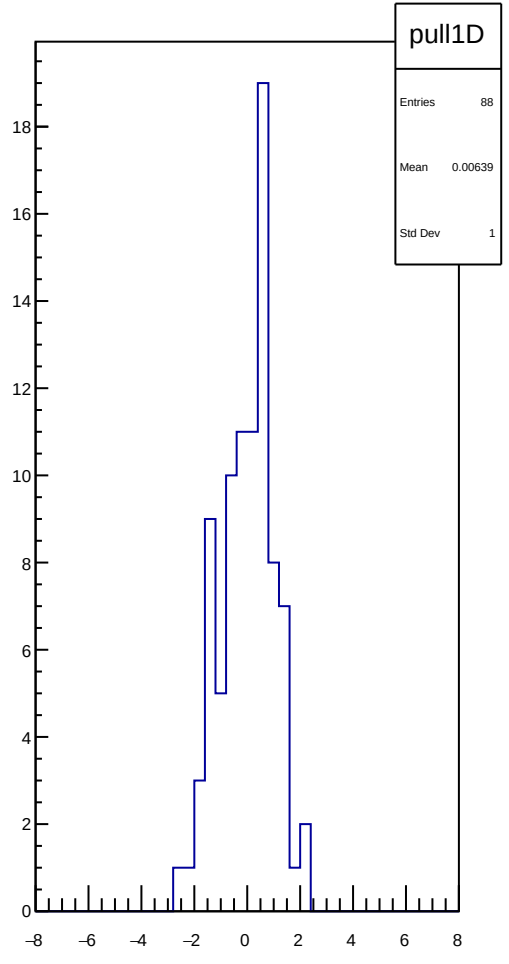

dit_asym_usr_rms vs run
χ² / ndf 93.9 / 87
p0 1076 ± 0.8332
1110
1100
1090
1080
1070
1060
1050


asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 81.49 / 87
p0 4276 ± 3126
100
50
0
−50
−100
pull
Entries 88
Mean −5484
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.000487
Std Dev 0.9623
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 8287 / 87
p0 2846 ± 2.21
3200
3000
2800
2600
2400


eigen_dit_asym_usr_mean vs run
χ² / ndf 88.04 / 87
p0 −815.8 ± 1178
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −265.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.00639
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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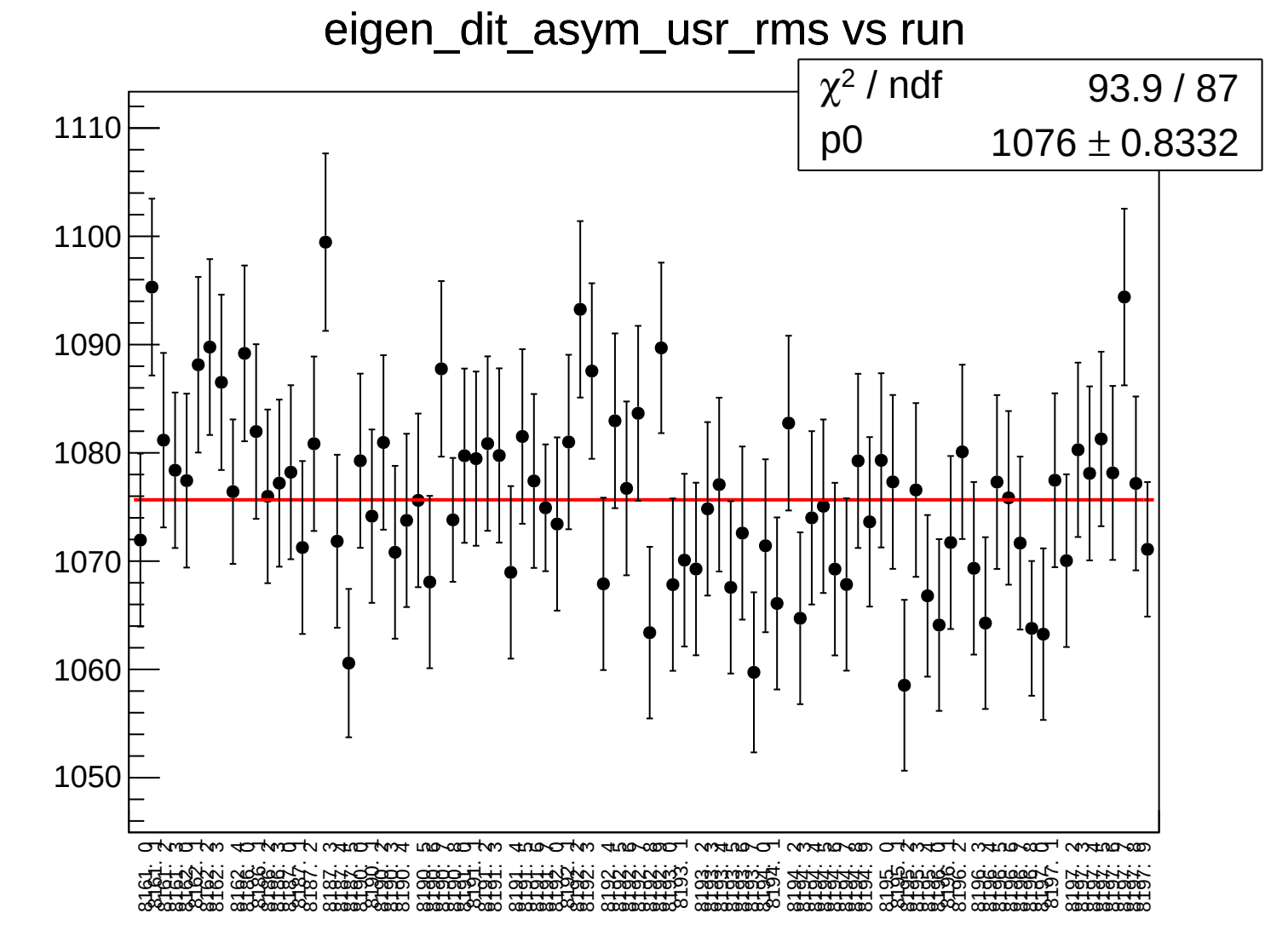
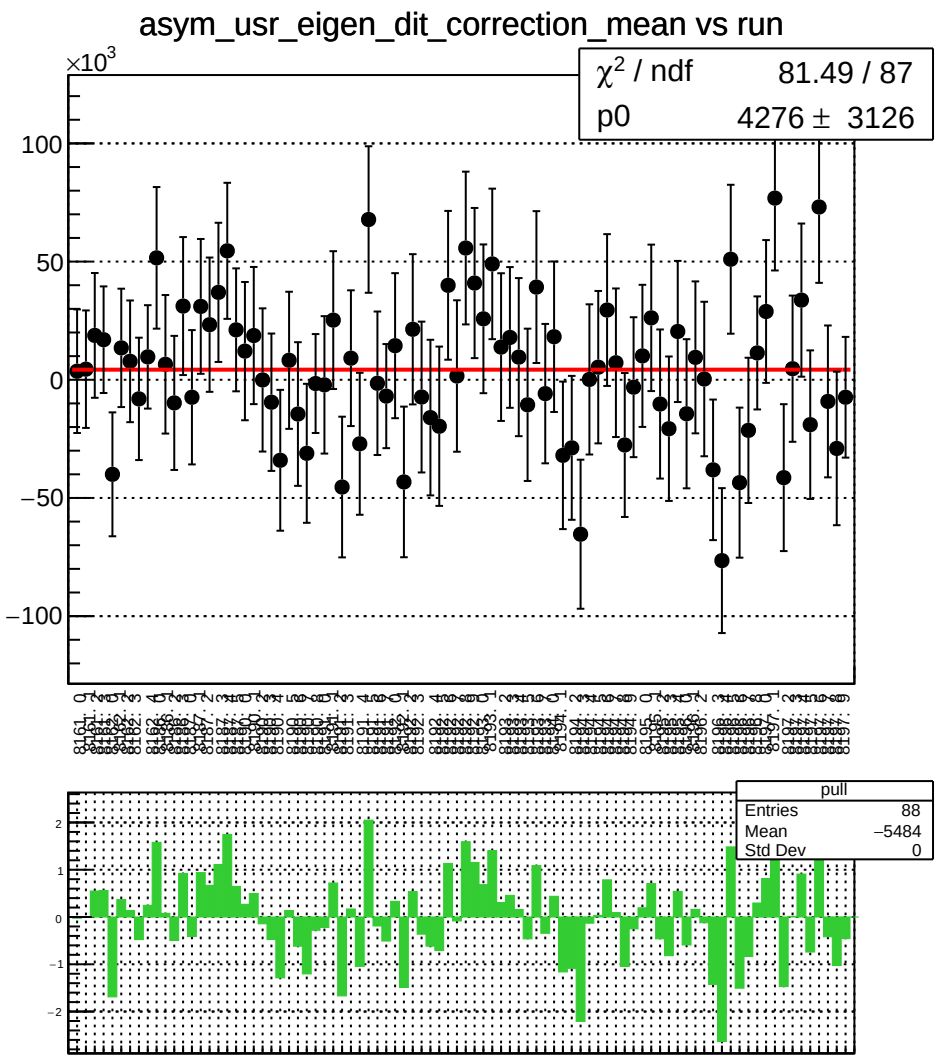
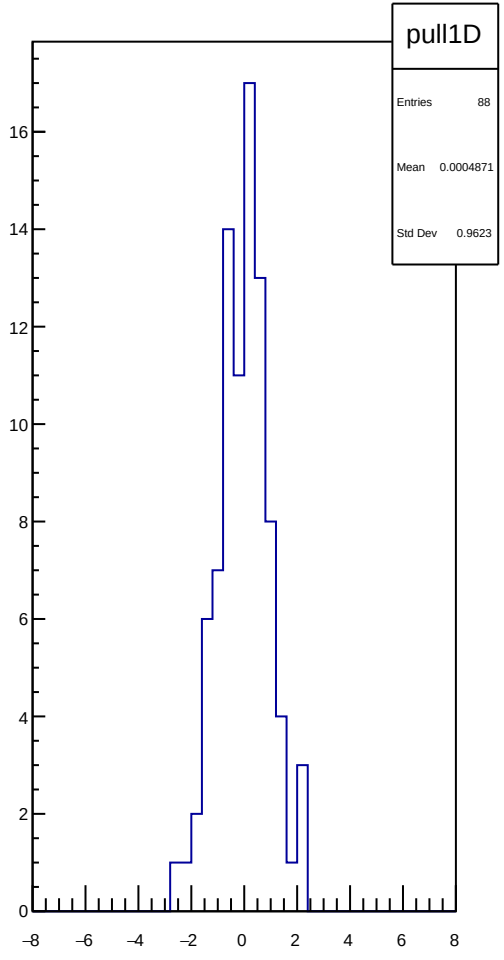
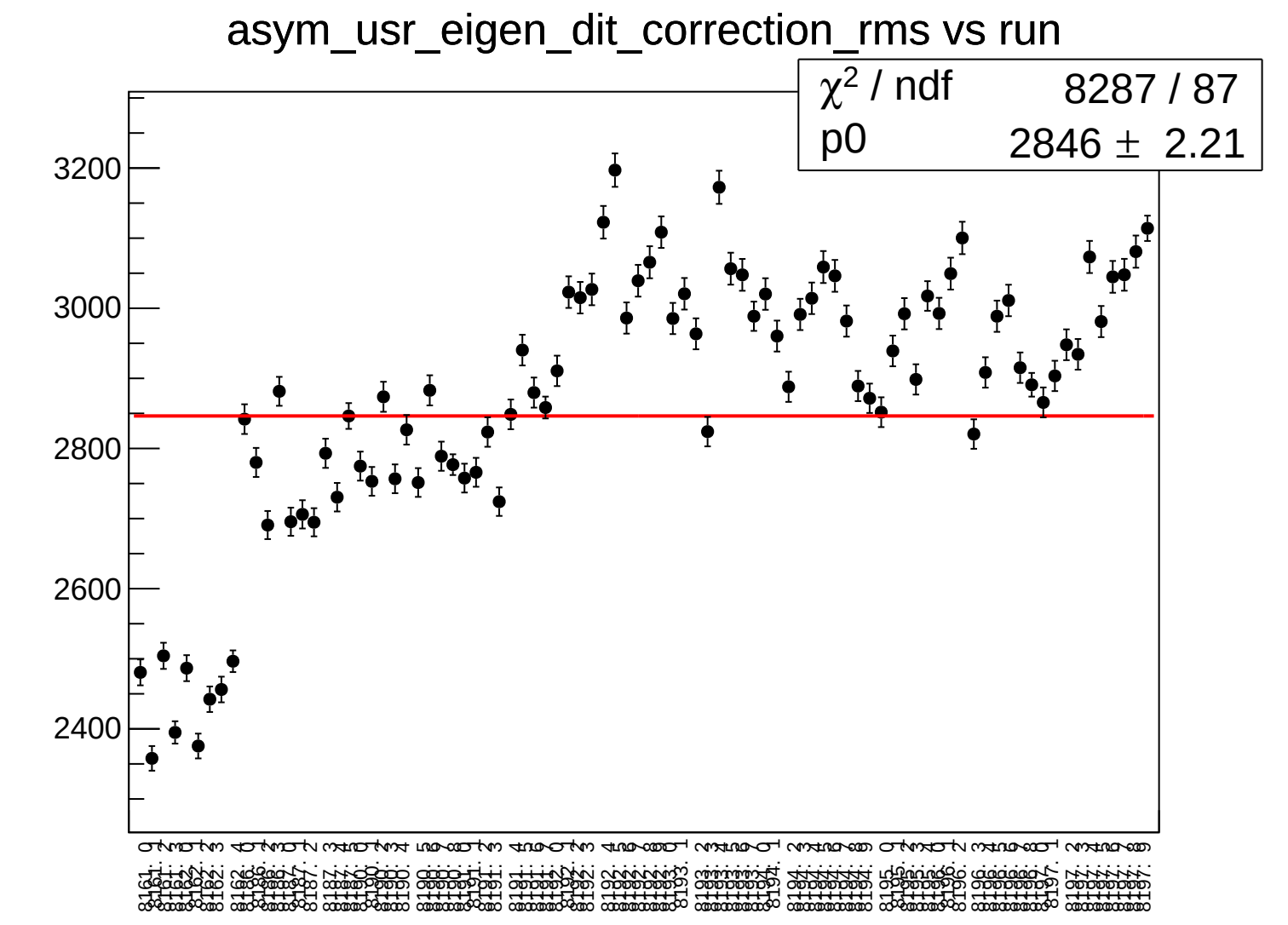
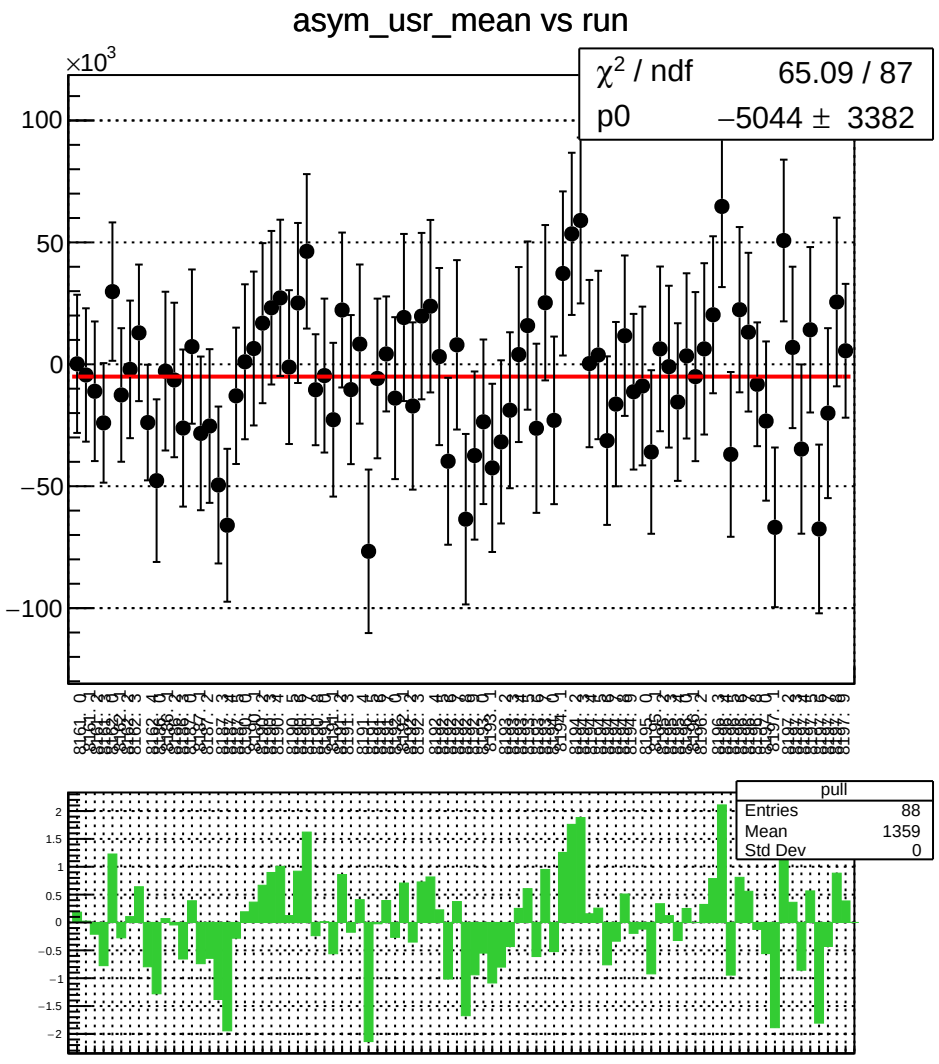
0
2
4
6
8

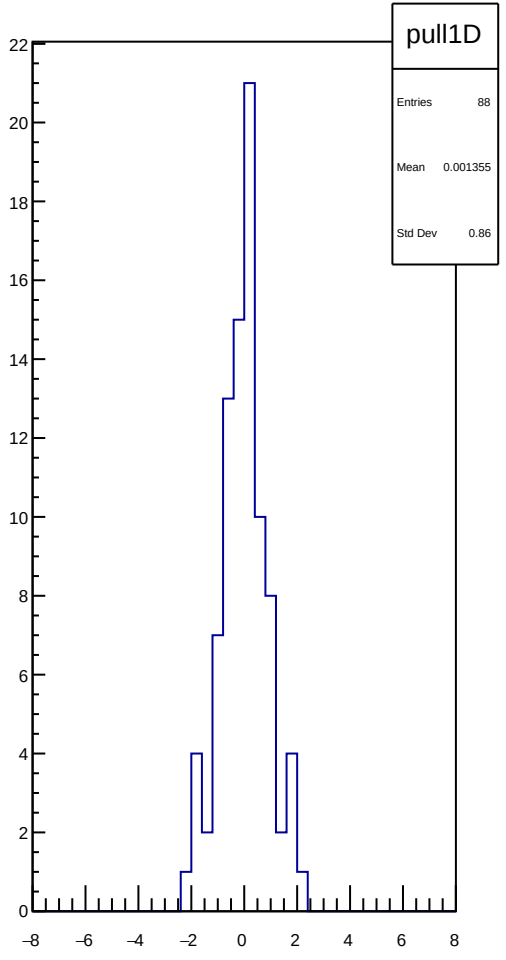

eigen_dit_asym_usr_rms vs run
χ² / ndf 93.9 / 87
p0 1076 ± 0.8332
1110
1100
1090
1080
1070
1060
1050

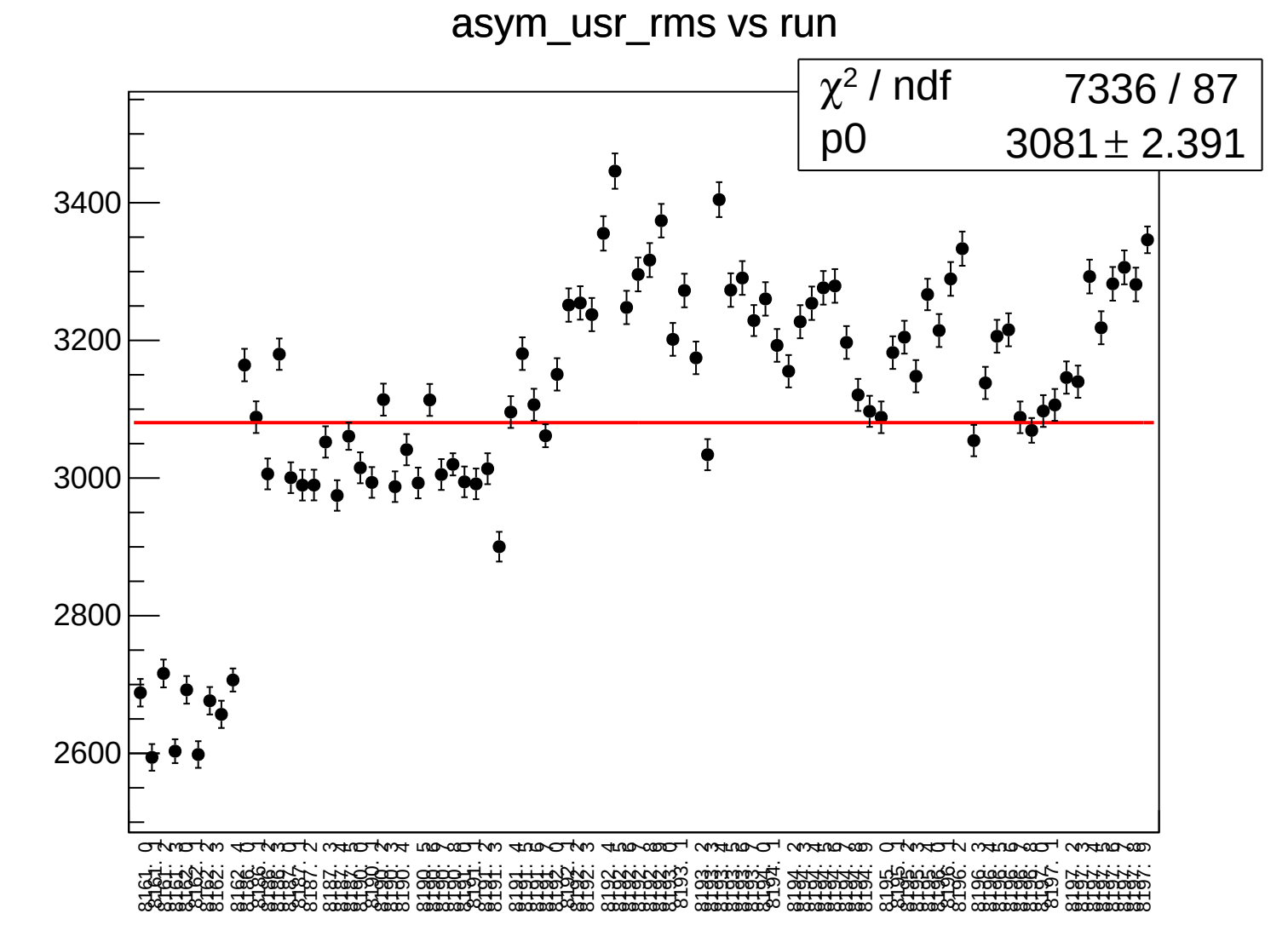

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.49 / 87
p0 4276 ± 3126
100
50
0
−50
−100
pull
Entries 88
Mean −5484
Std Dev 0
2
1
0
−1
−2

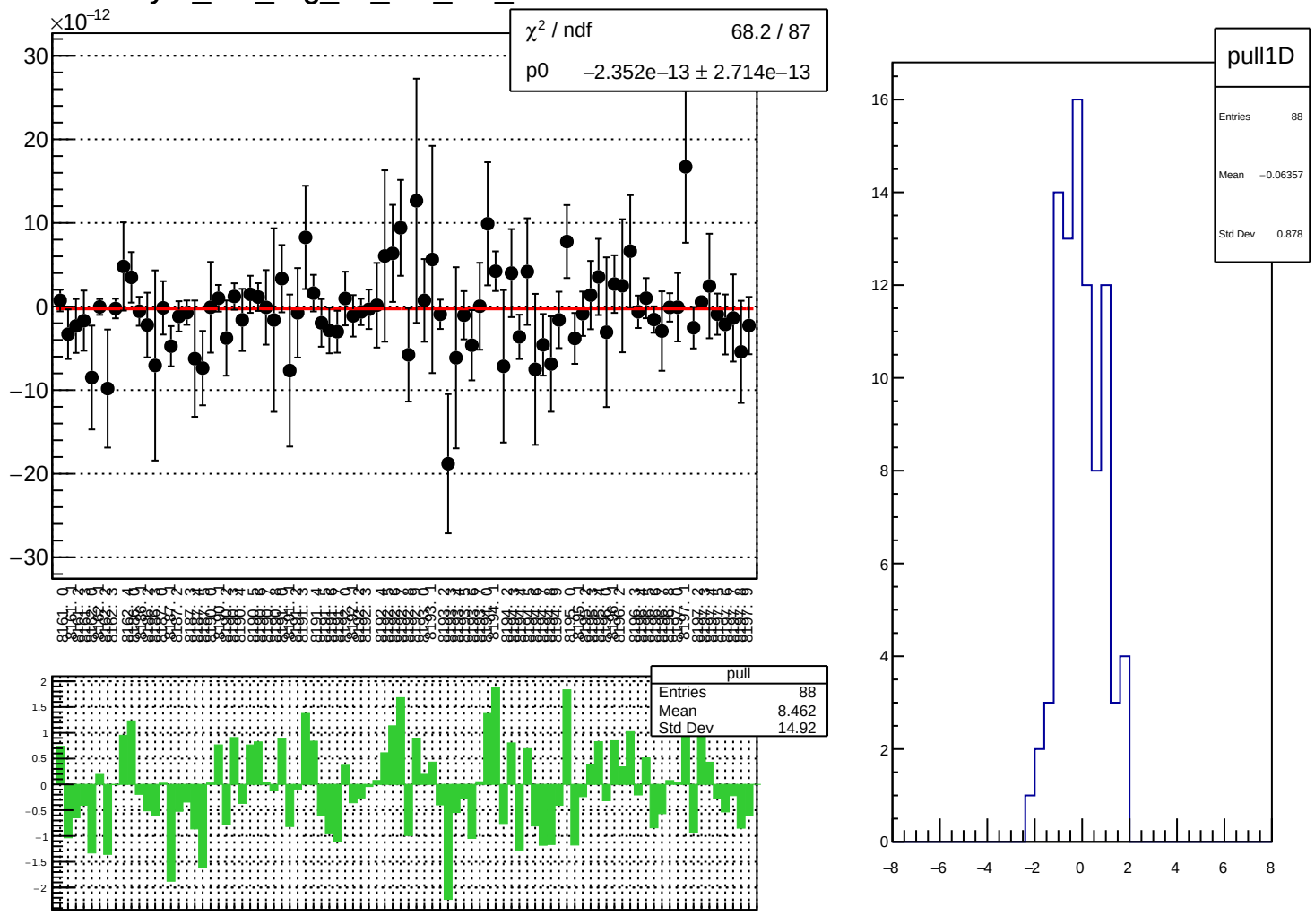

pull1D
Entries 88
Mean 0.0004871
Std Dev 0.9623
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

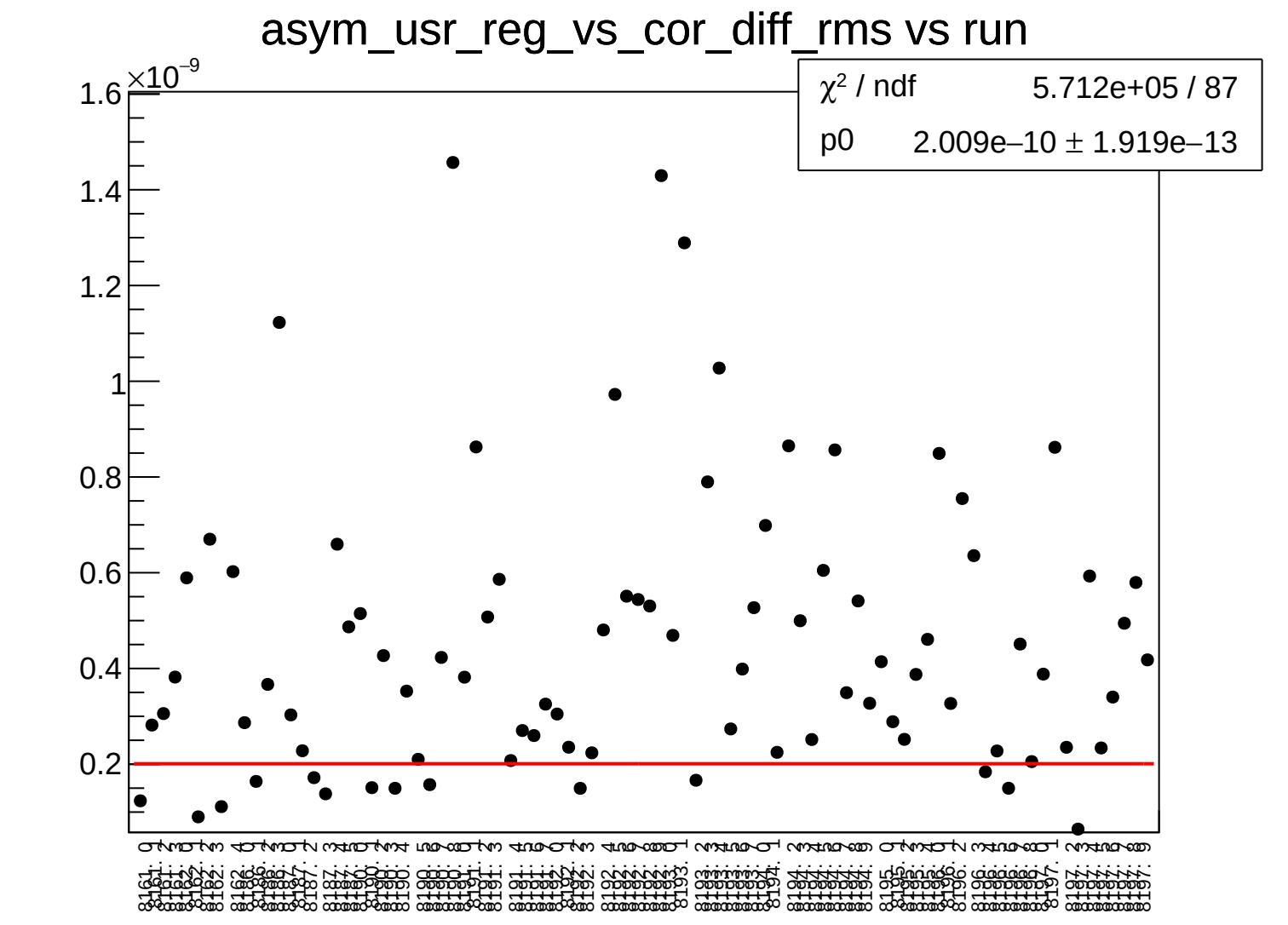

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 8287 / 87
p0 2846 ± 2.21
3200
3000
2800
2600
2400

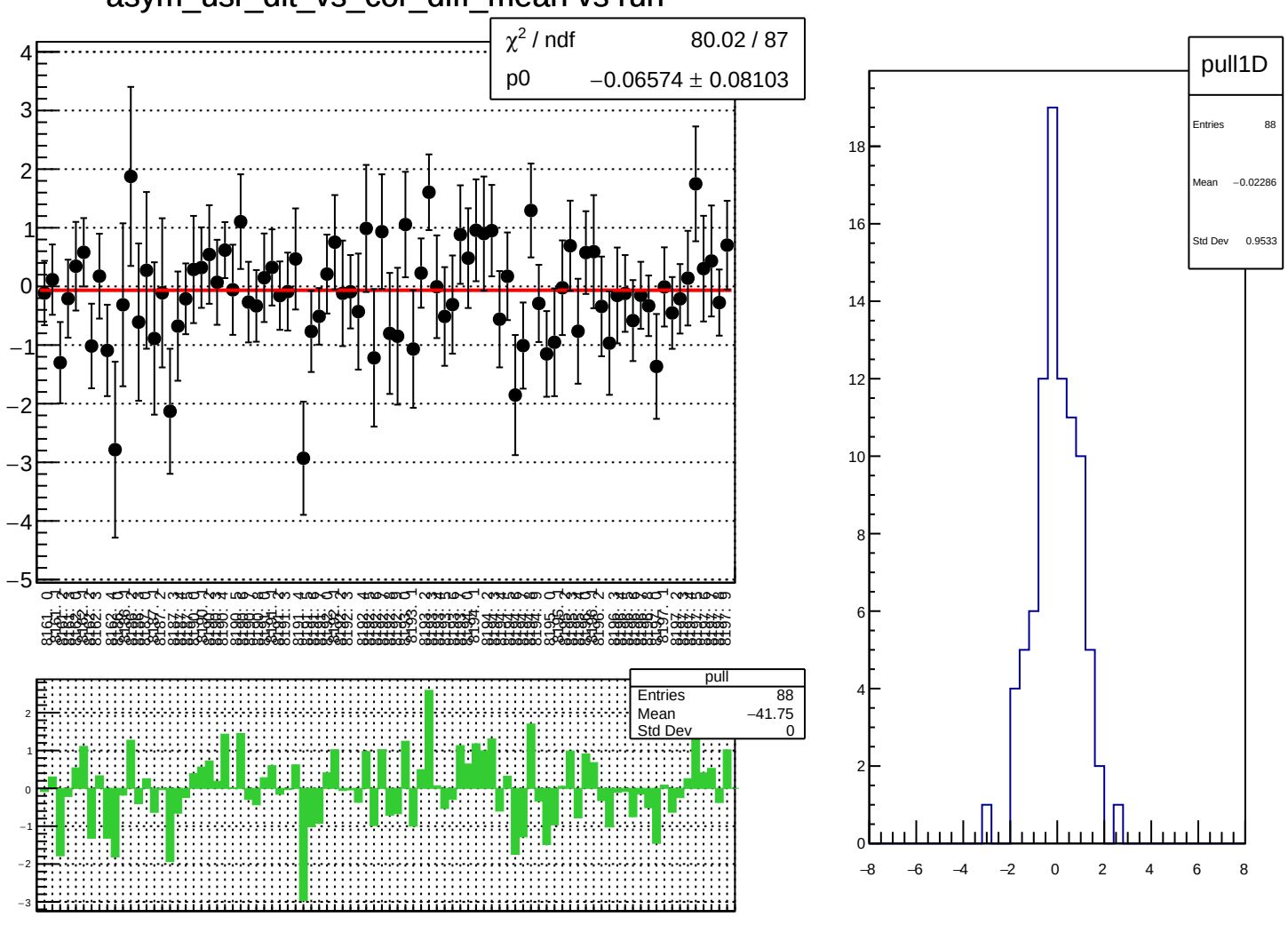

asym_usr_mean vs run
×10^3
χ² / ndf 65.09 / 87
p0 −5044 ± 3382
100
50
0
−50
−100
pull
Entries 88
Mean 1359
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

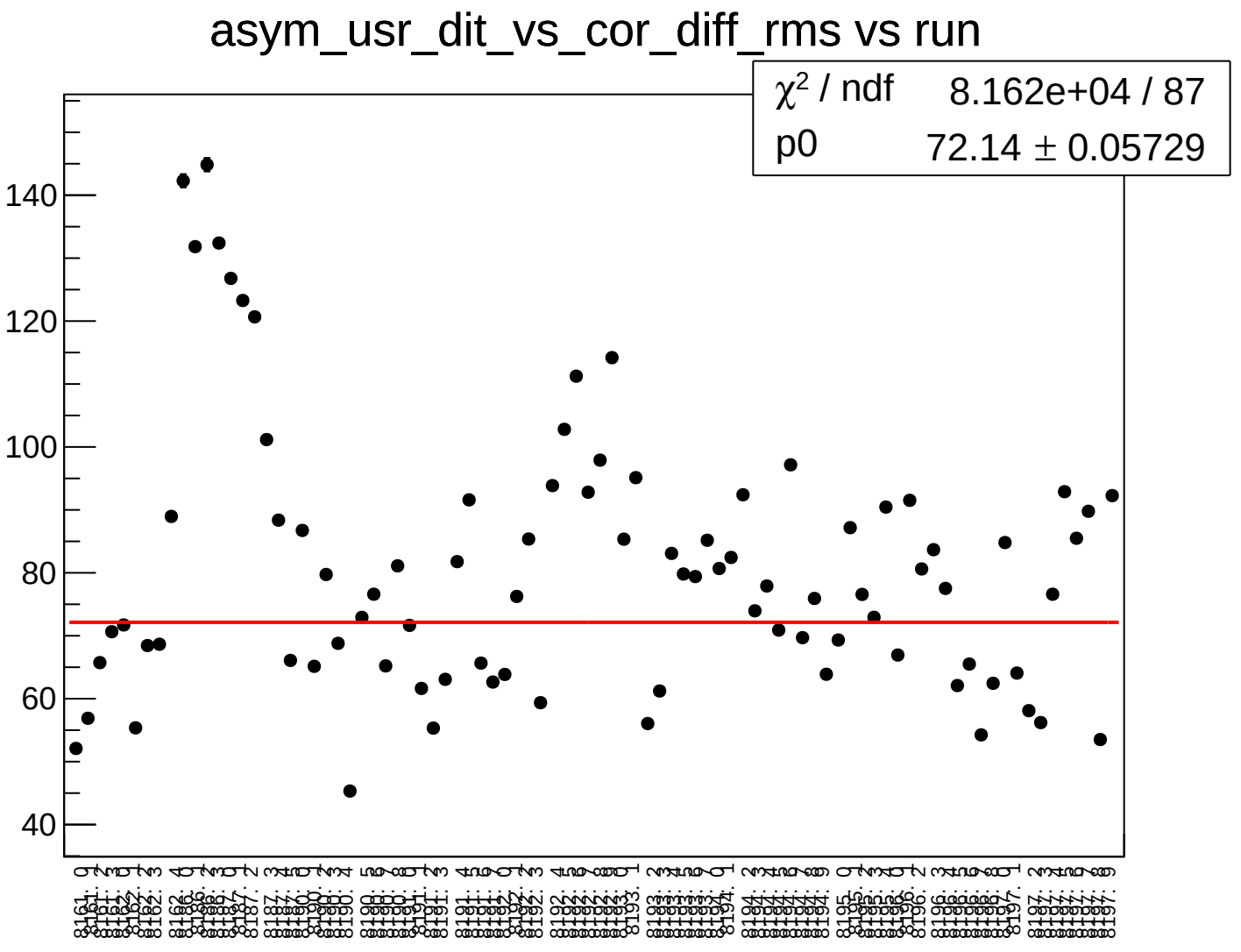

pull1D
Entries 88
Mean 0.001355
Std Dev 0.86
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

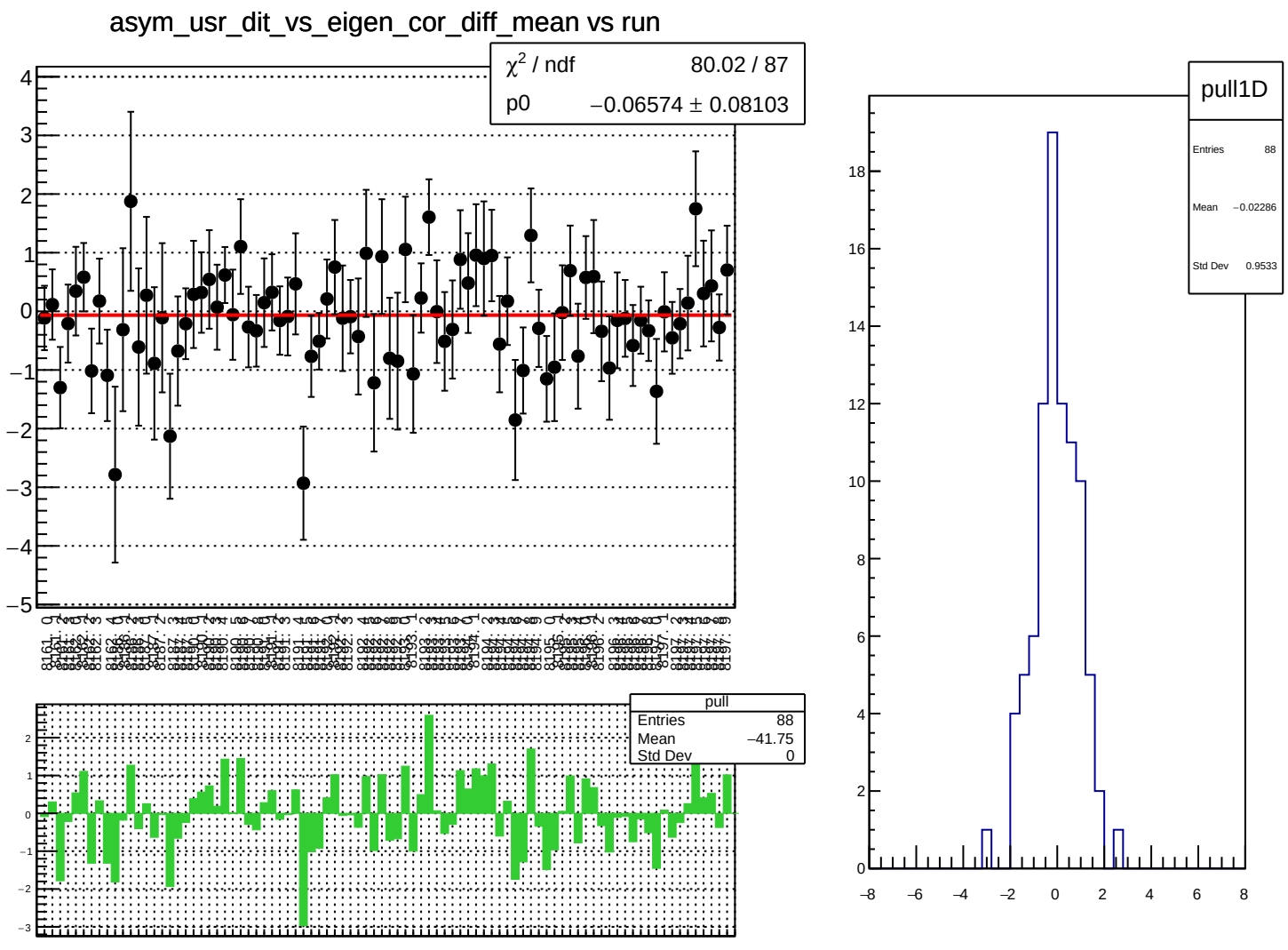

asym_usr_rms vs run
χ² / ndf 7336 / 87
p0 3081 ± 2.391
3400
3200
3000
2800
2600

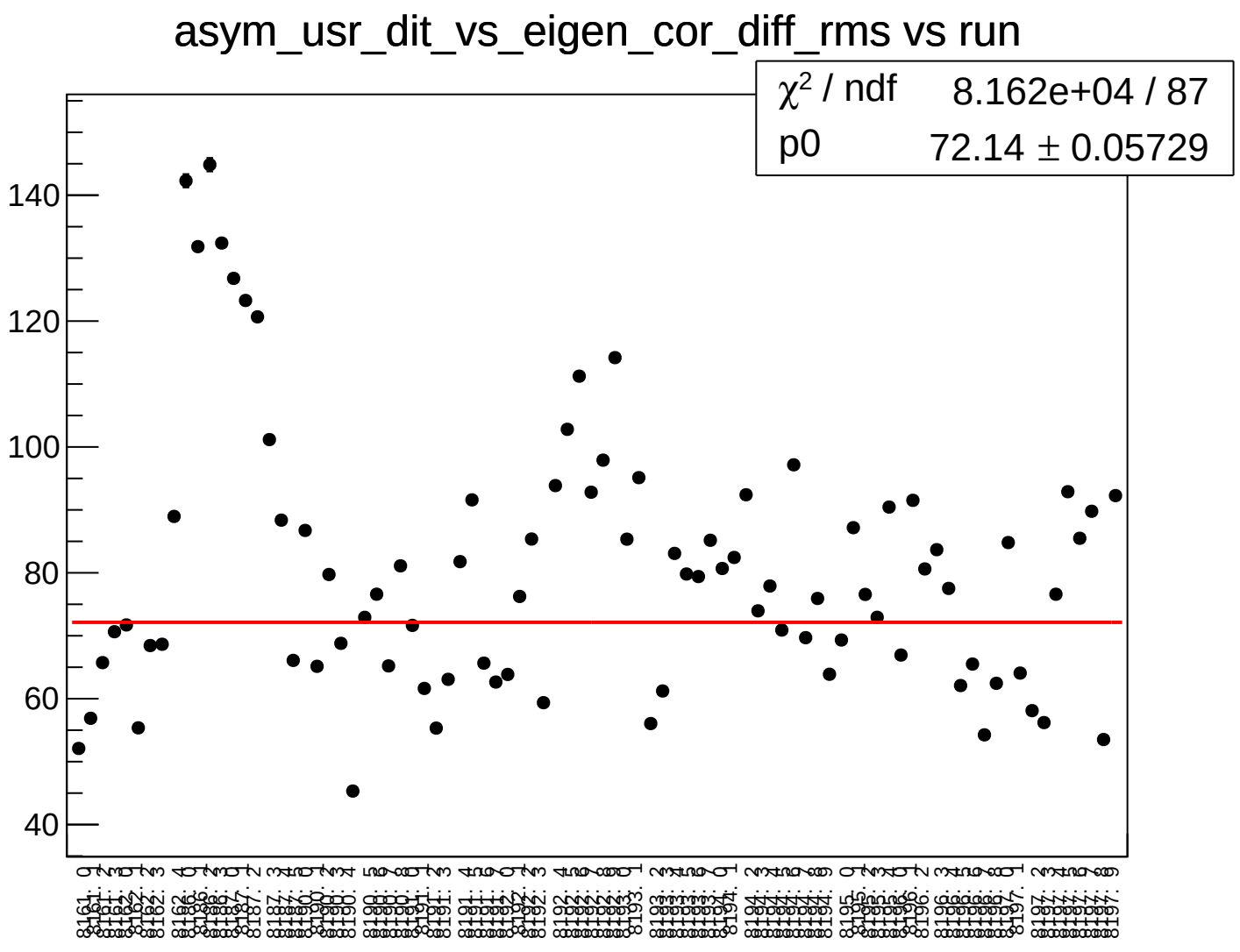

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.2 / 87
p0 −2.352e−13 ± 2.714e−13
pull
Entries 88
Mean 8.462
Std Dev 14.92
pull1D
Entries 88
Mean −0.06357
Std Dev 0.878

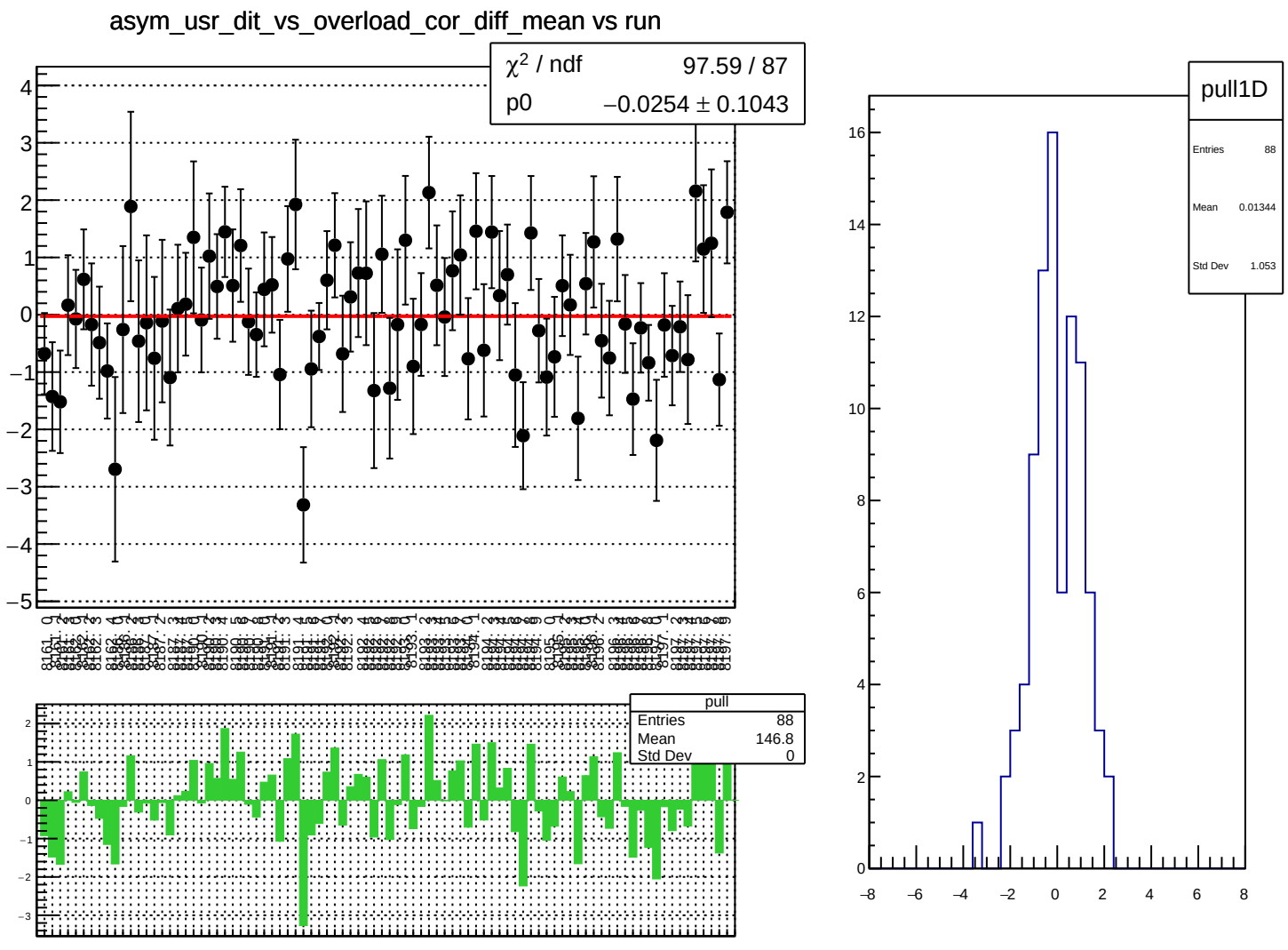

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 5.712e+05 / 87
p0 2.009e−10 ± 1.919e−13

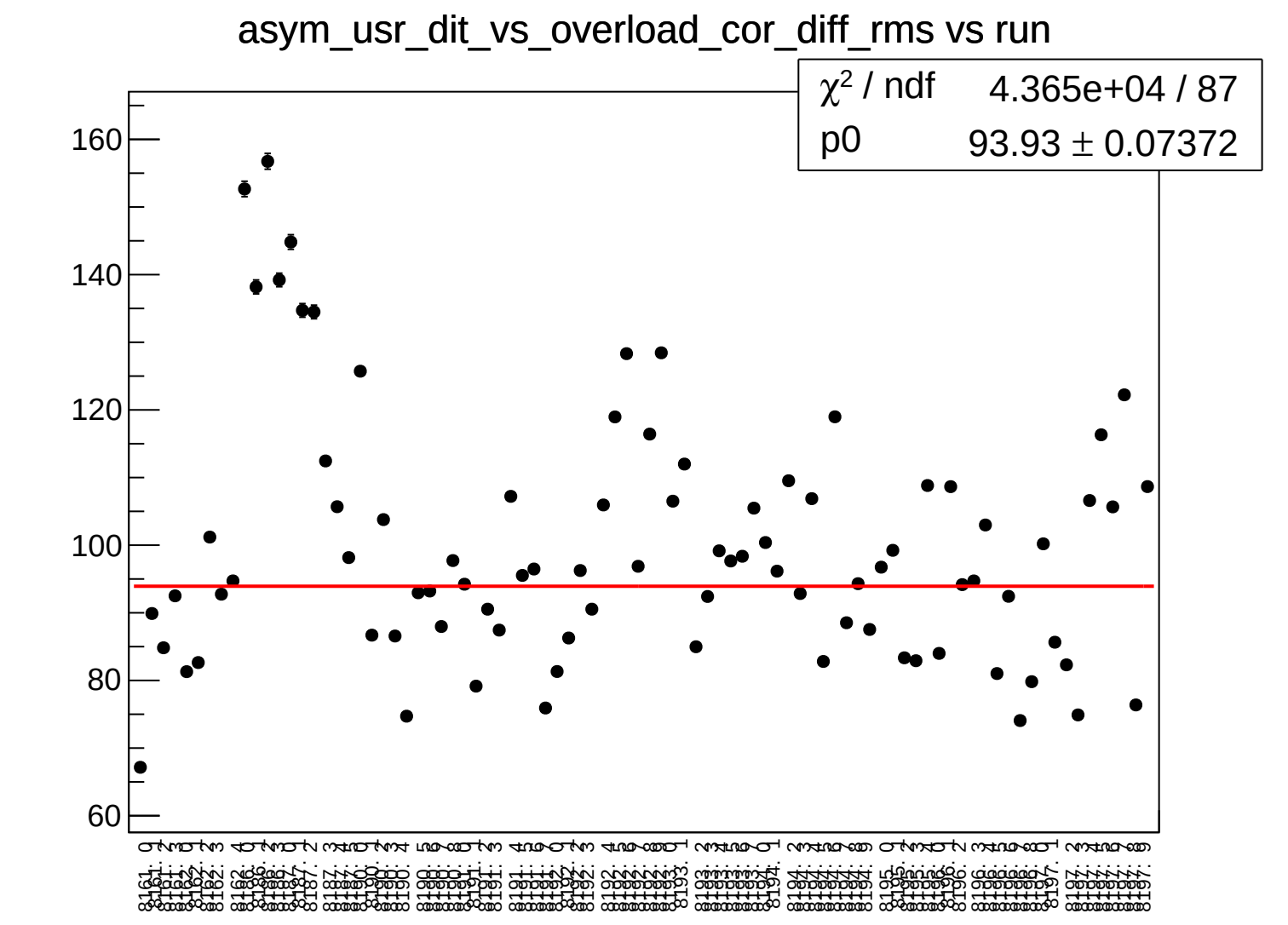

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 80.02 / 87
p0 −0.06574 ± 0.08103
pull
Entries 88
Mean −41.75
Std Dev 0
pull1D
Entries 88
Mean −0.02286
Std Dev 0.9533

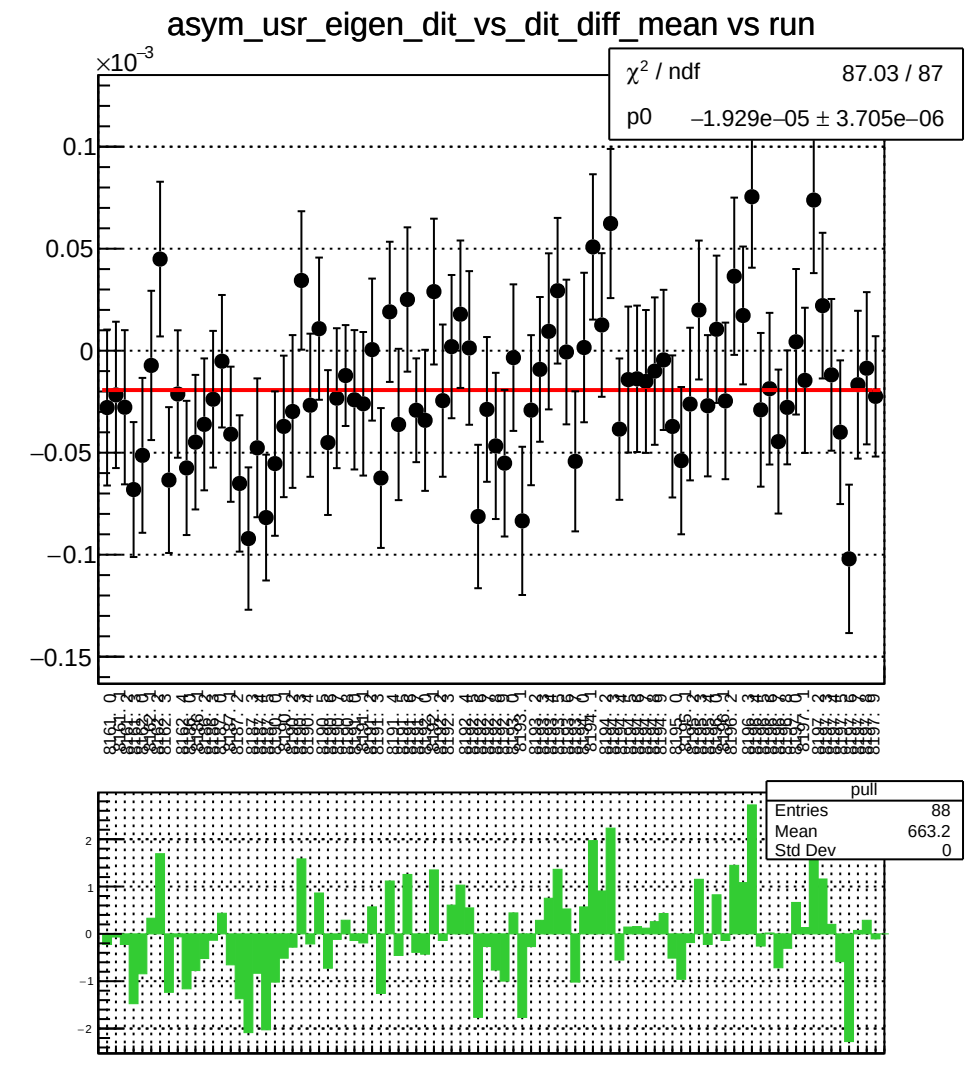

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 8.162e+04 / 87
p0 72.14 ± 0.05729
140
120
100
80
60
40

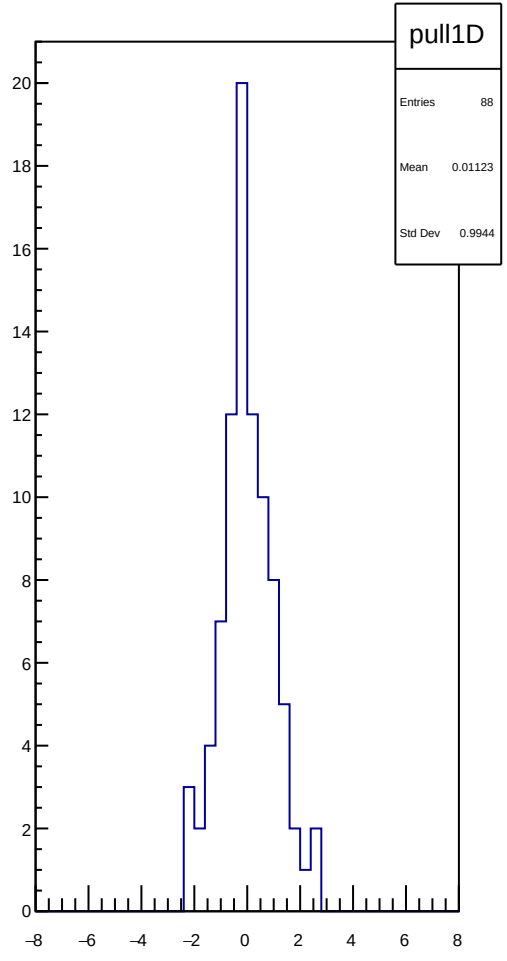

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.02 / 87
p0 −0.06574 ± 0.08103
pull
Entries 88
Mean −41.75
Std Dev 0
pull1D
Entries 88
Mean −0.02286
Std Dev 0.9533

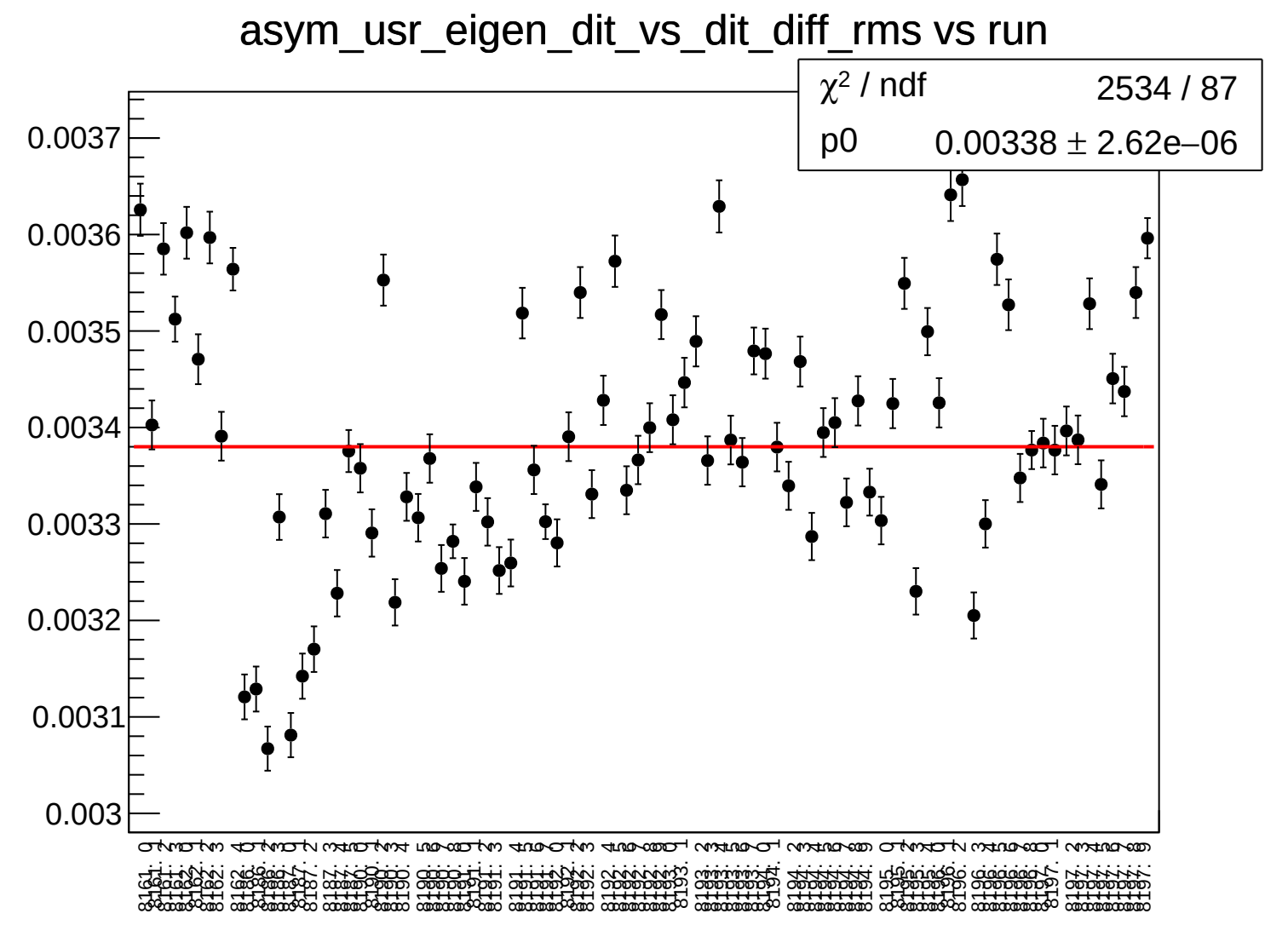

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.162e+04 / 87
p0 72.14 ± 0.05729
140
120
100
80
60
40

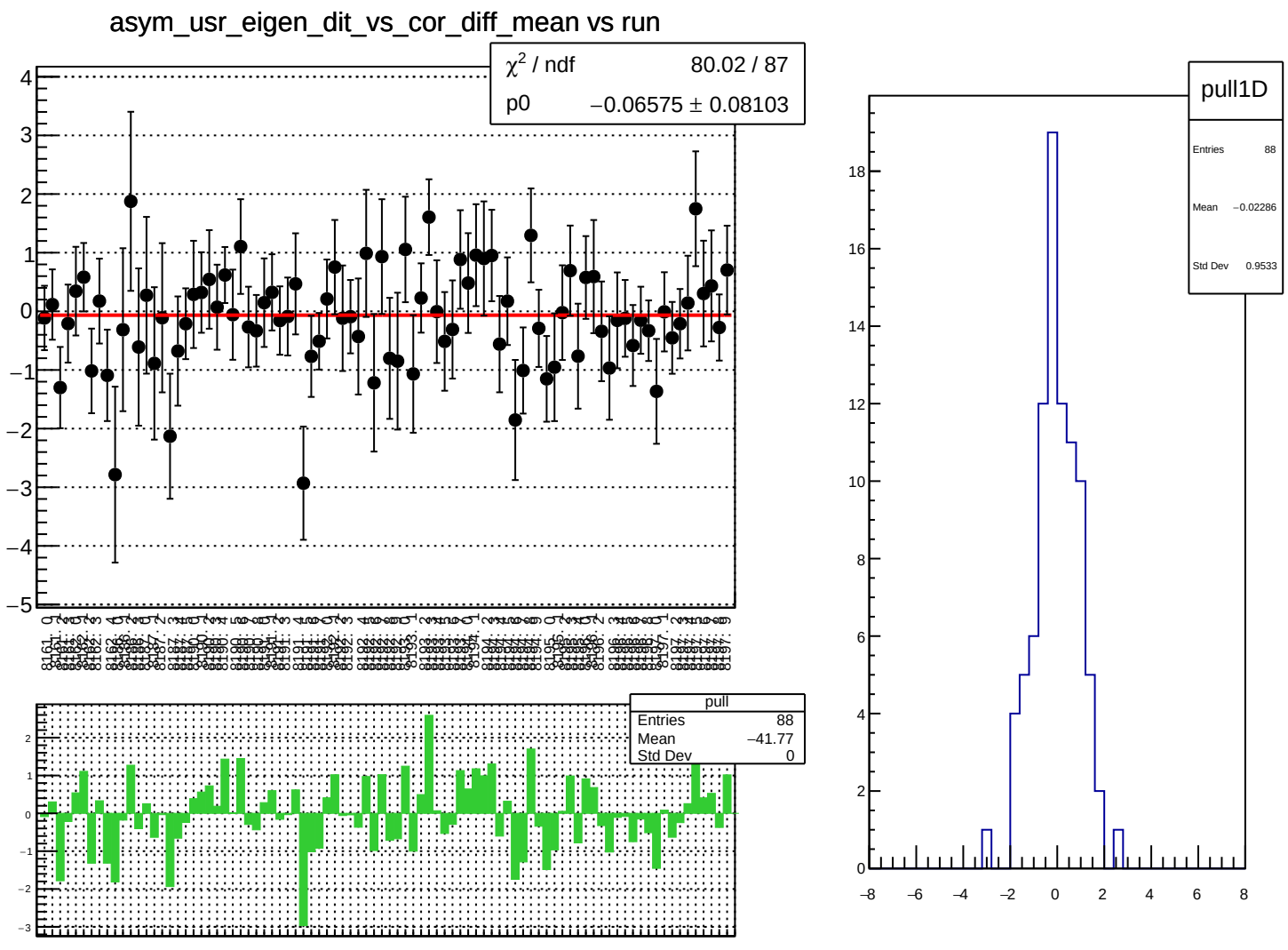

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.59 / 87
p0 −0.0254 ± 0.1043
pull
Entries 88
Mean 146.8
Std Dev 0
pull1D
Entries 88
Mean 0.01344
Std Dev 1.053

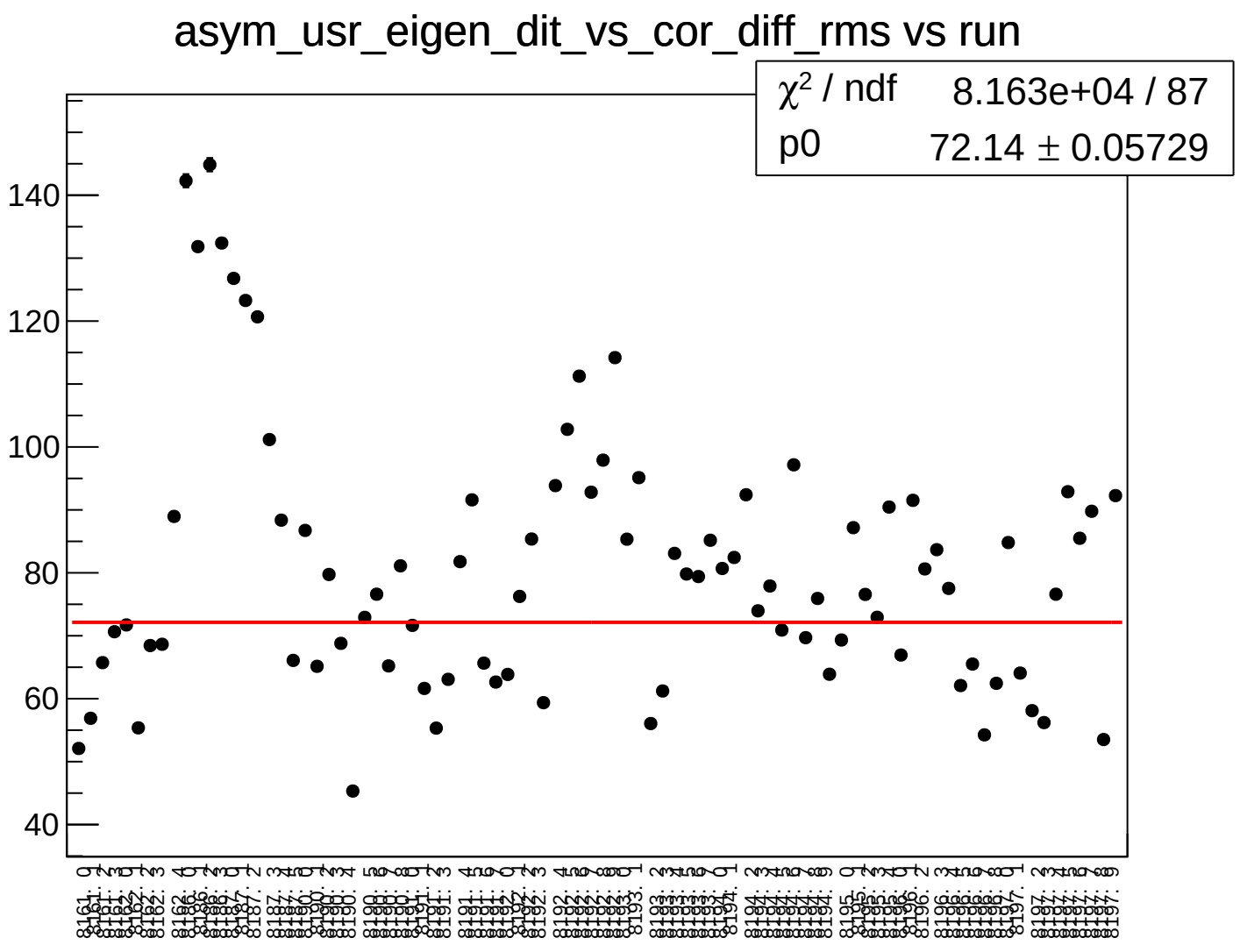

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.365e+04 / 87
p0 93.93 ± 0.07372
160
140
120
100
80
60

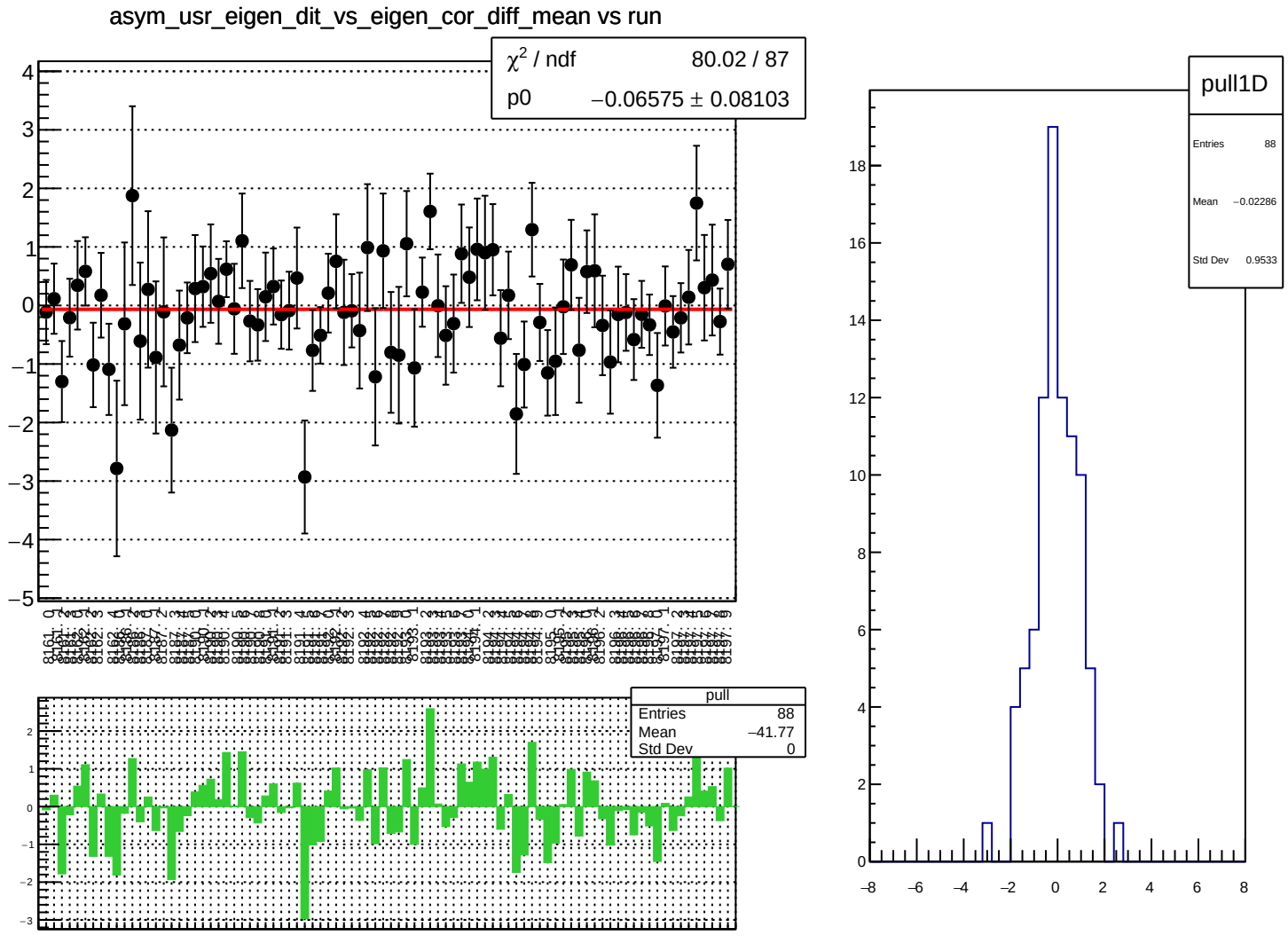

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.03 / 87
p0 −1.929e−05 ± 3.705e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 663.2
Std Dev 0
2
1
0
−1
−2

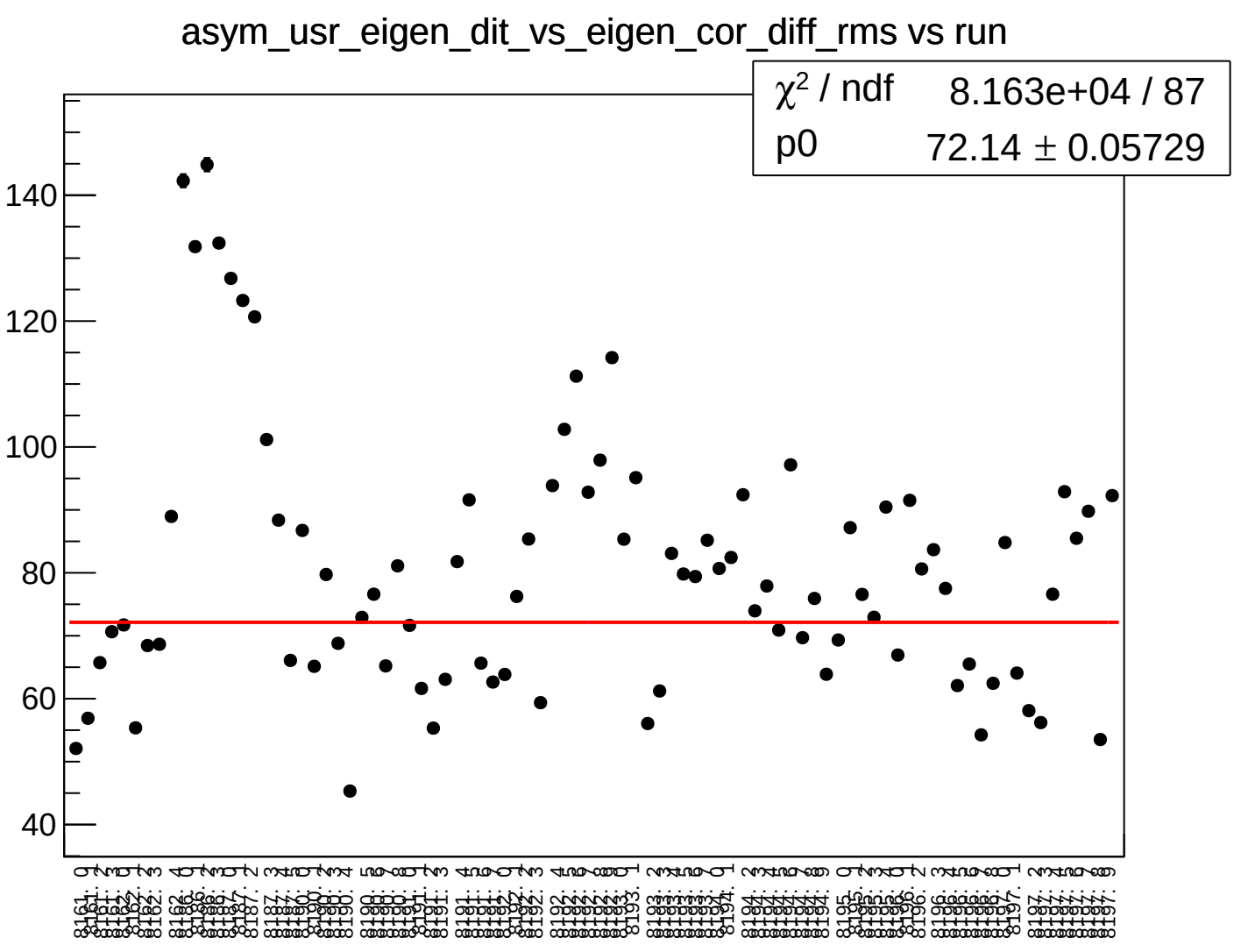

pull1D
Entries 88
Mean 0.01123
Std Dev 0.9944
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

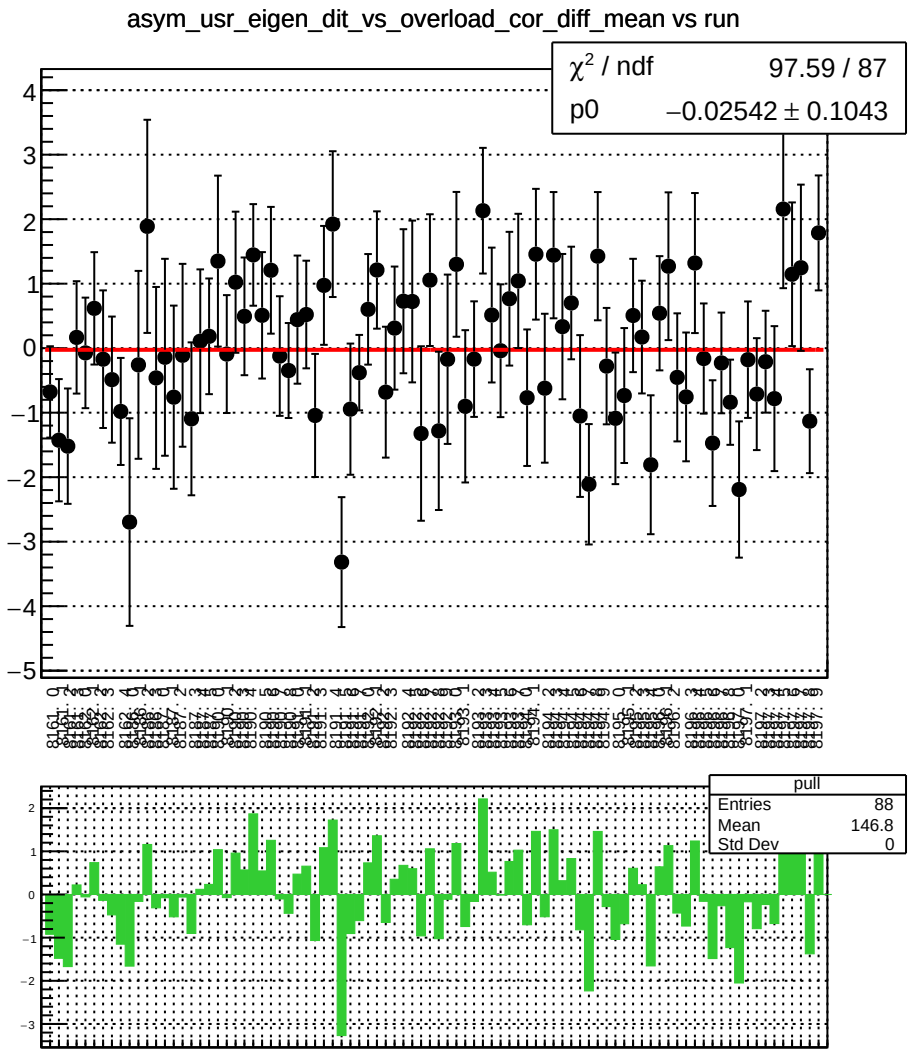

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2534 / 87
p0 0.00338 ± 2.62e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

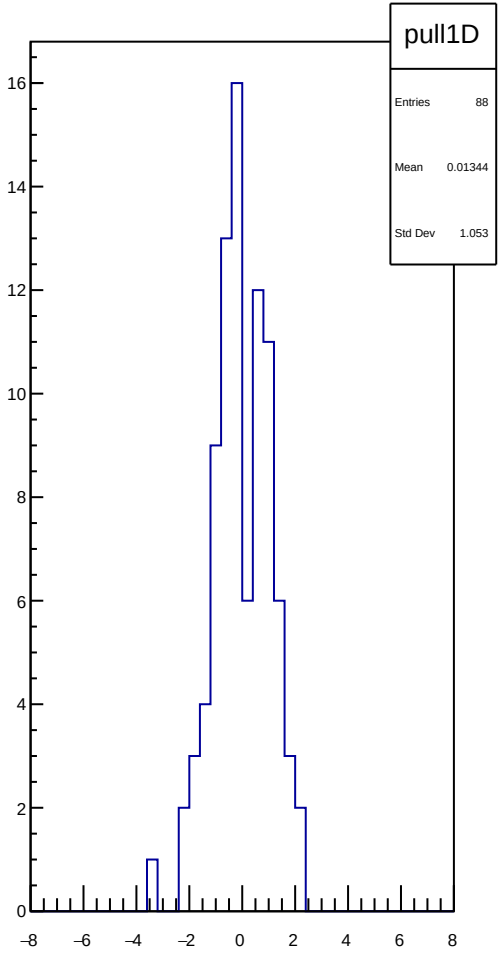

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.02 / 87
p0 −0.06575 ± 0.08103
pull
Entries 88
Mean −41.77
Std Dev 0
pull1D
Entries 88
Mean −0.02286
Std Dev 0.9533

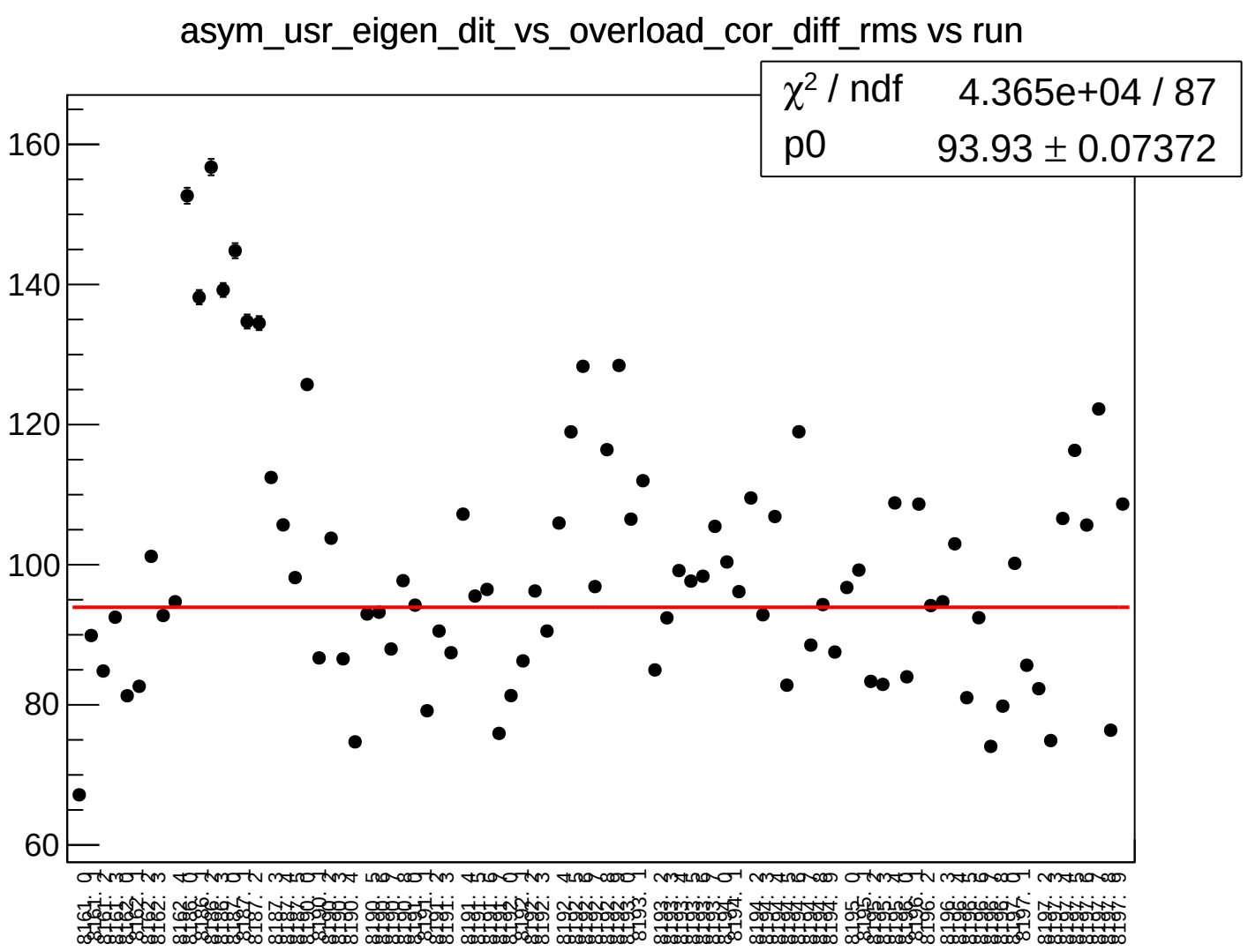

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.163e+04 / 87
p0 72.14 ± 0.05729
140
120
100
80
60
40

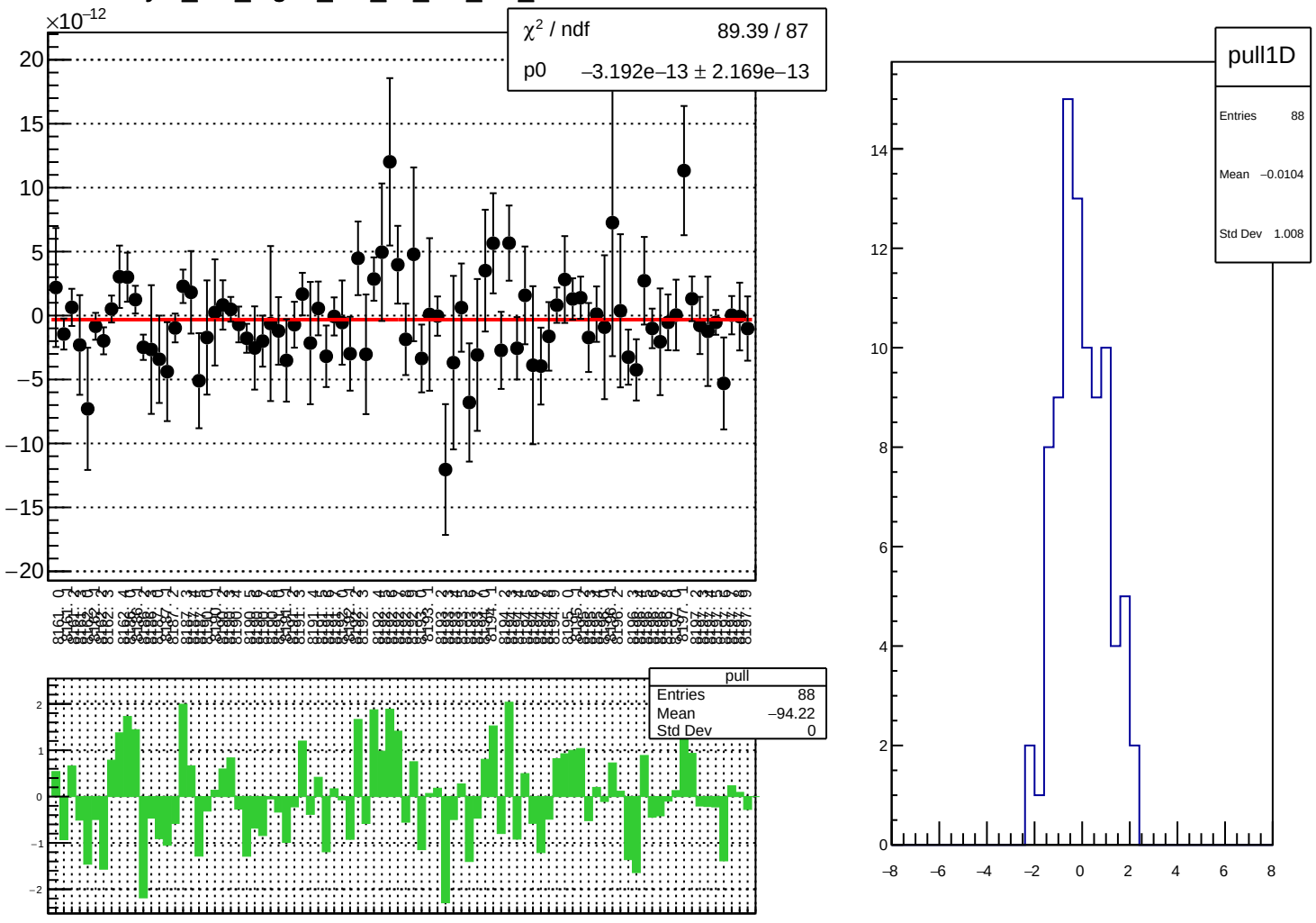

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.02 / 87
p0 −0.06575 ± 0.08103
pull
Entries 88
Mean −41.77
Std Dev 0
pull1D
Entries 88
Mean −0.02286
Std Dev 0.9533

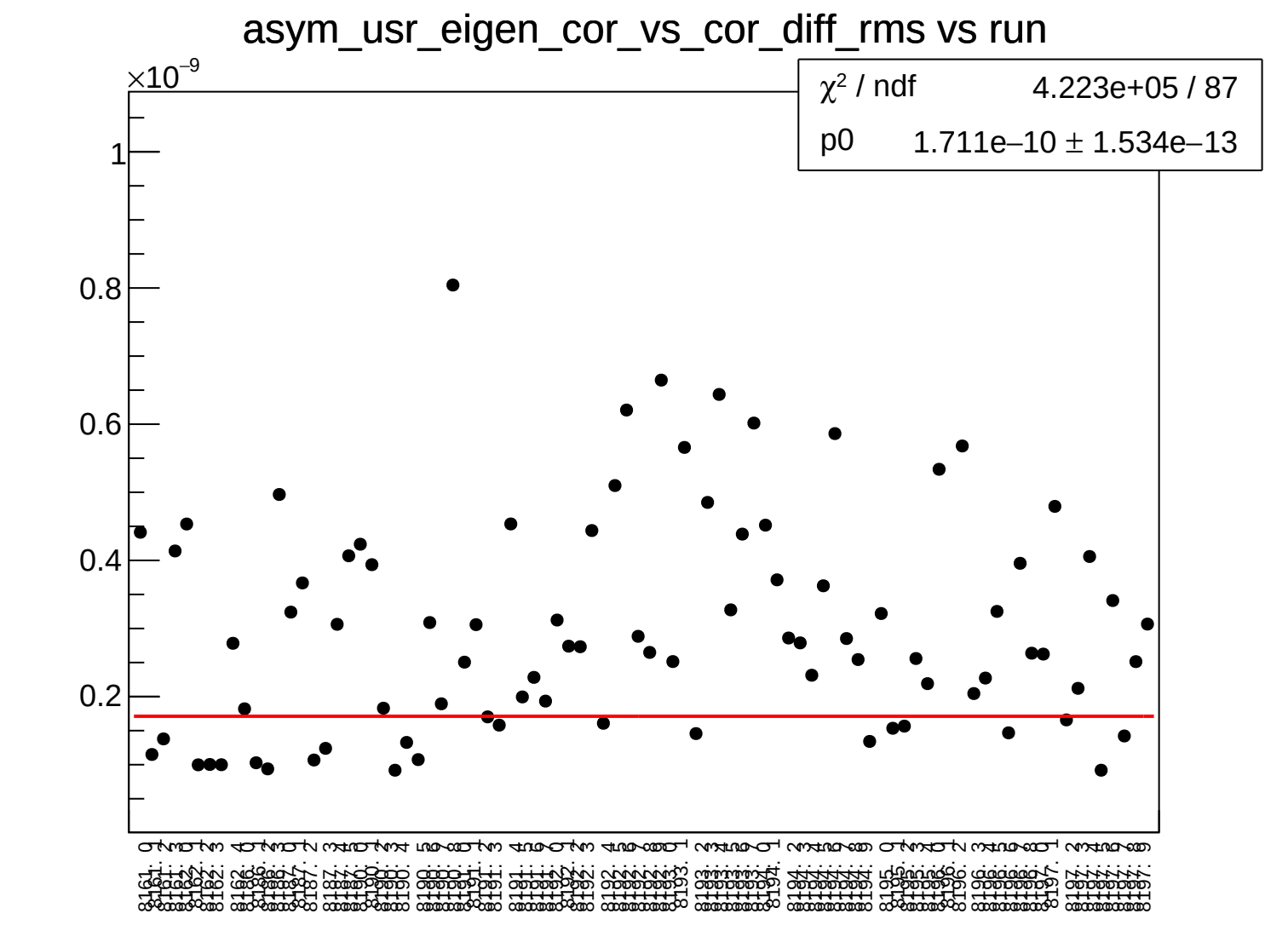

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.163e+04 / 87
p0 72.14 ± 0.05729
140
120
100
80
60
40

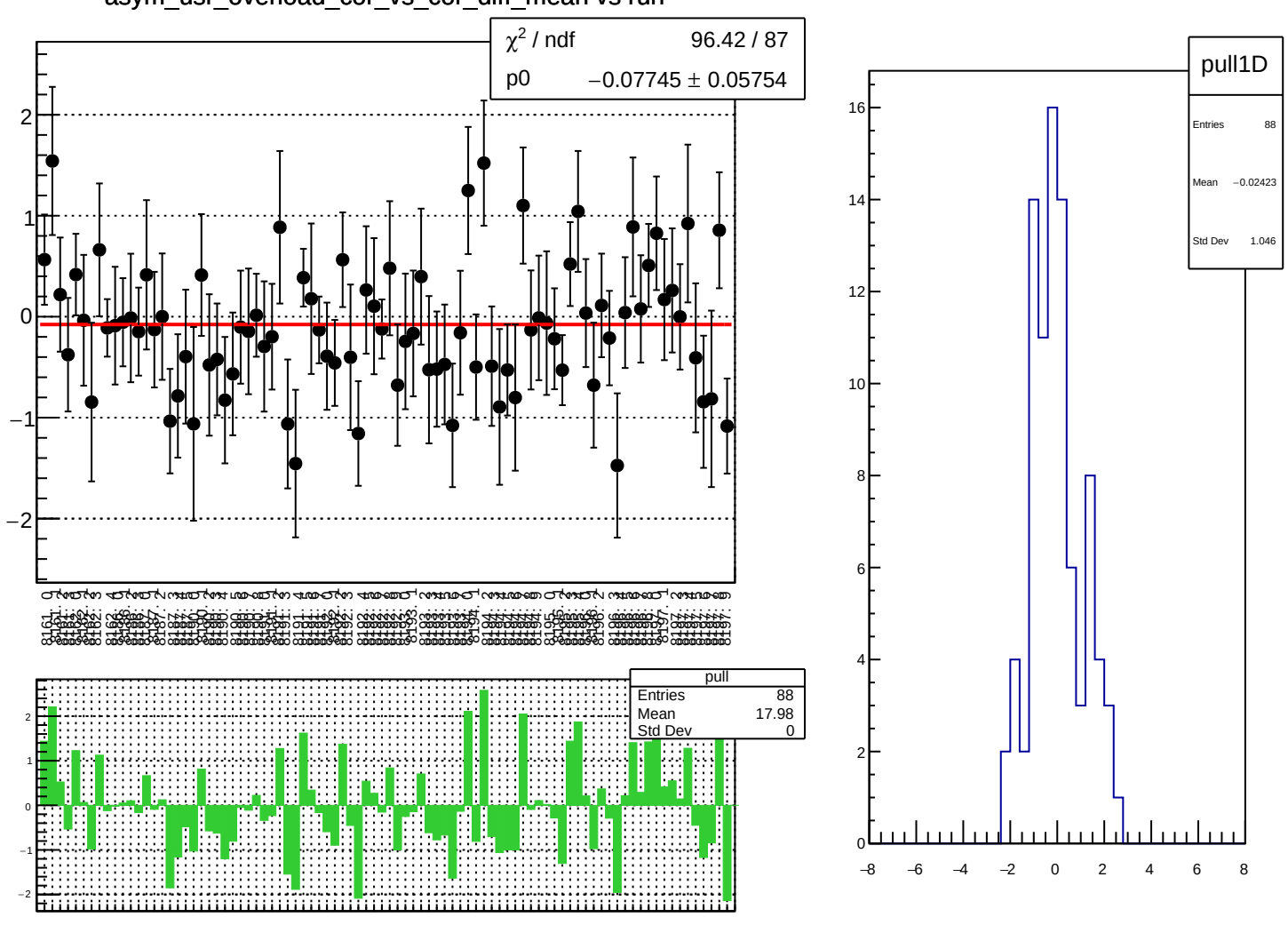

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.59 / 87
p0 −0.02542 ± 0.1043
pull
Entries 88
Mean 146.8
Std Dev 0

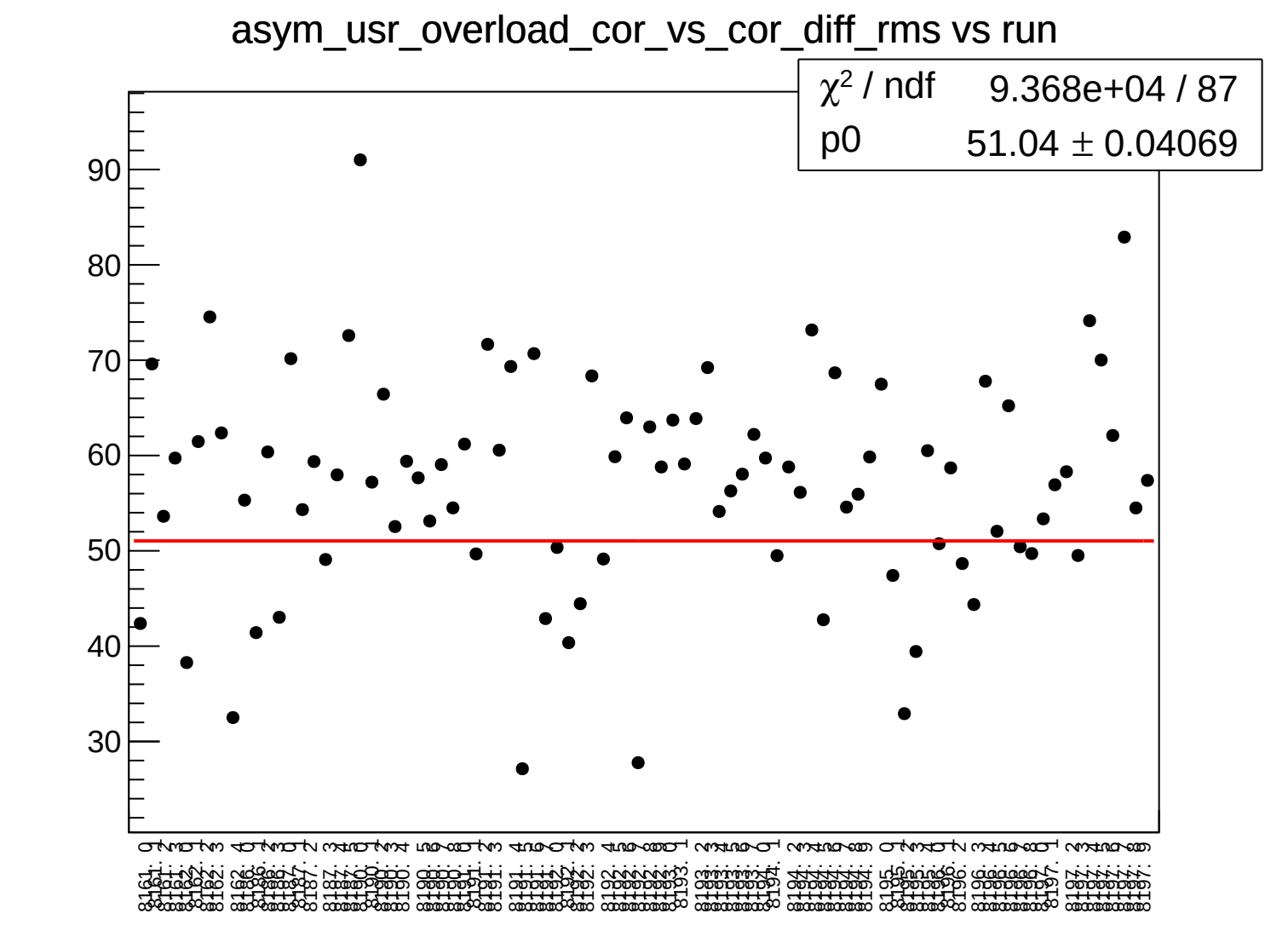

pull1D
Entries 88
Mean 0.01344
Std Dev 1.053

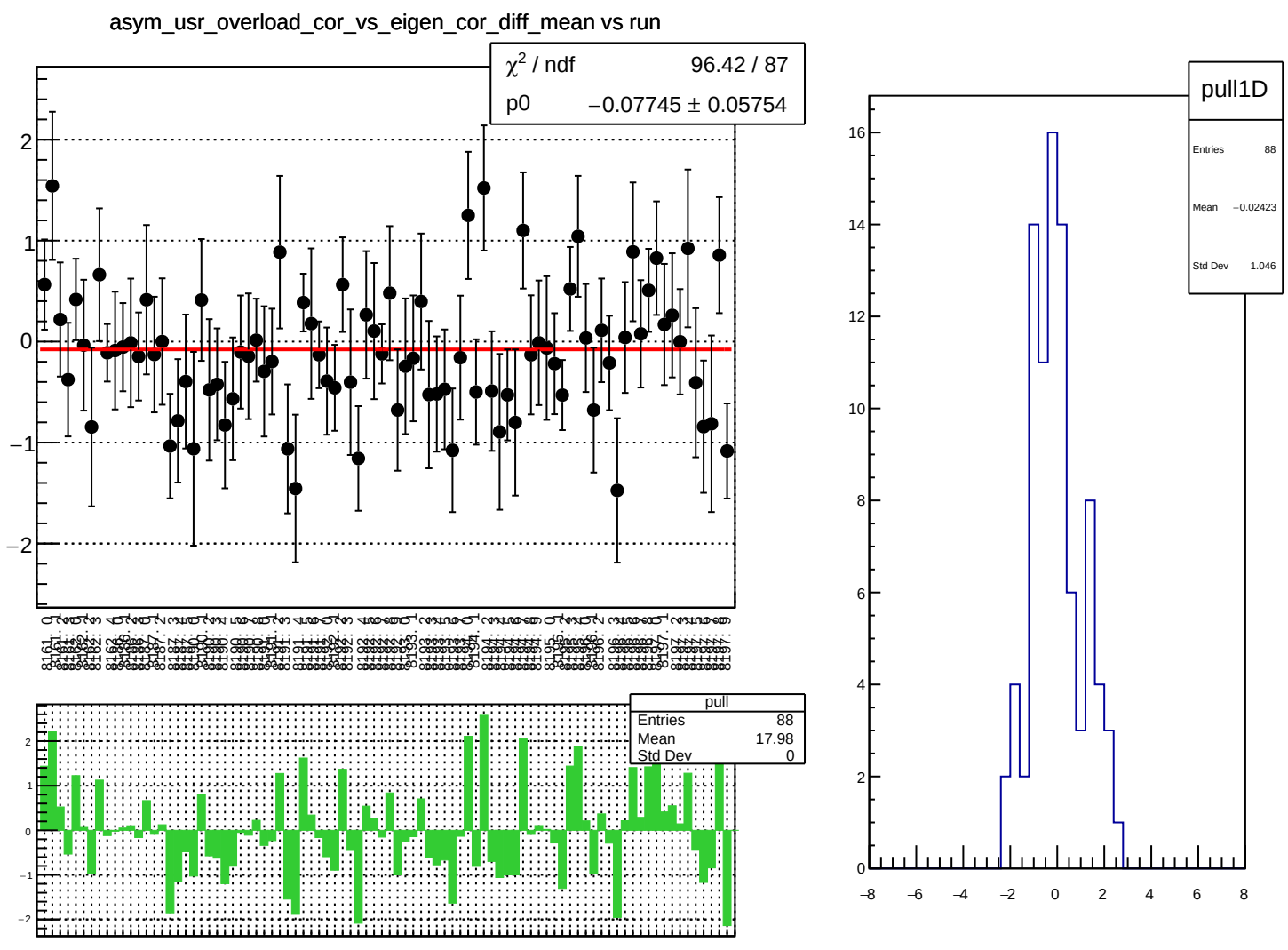

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.365e+04 / 87
p0 93.93 ± 0.07372
160
140
120
100
80
60

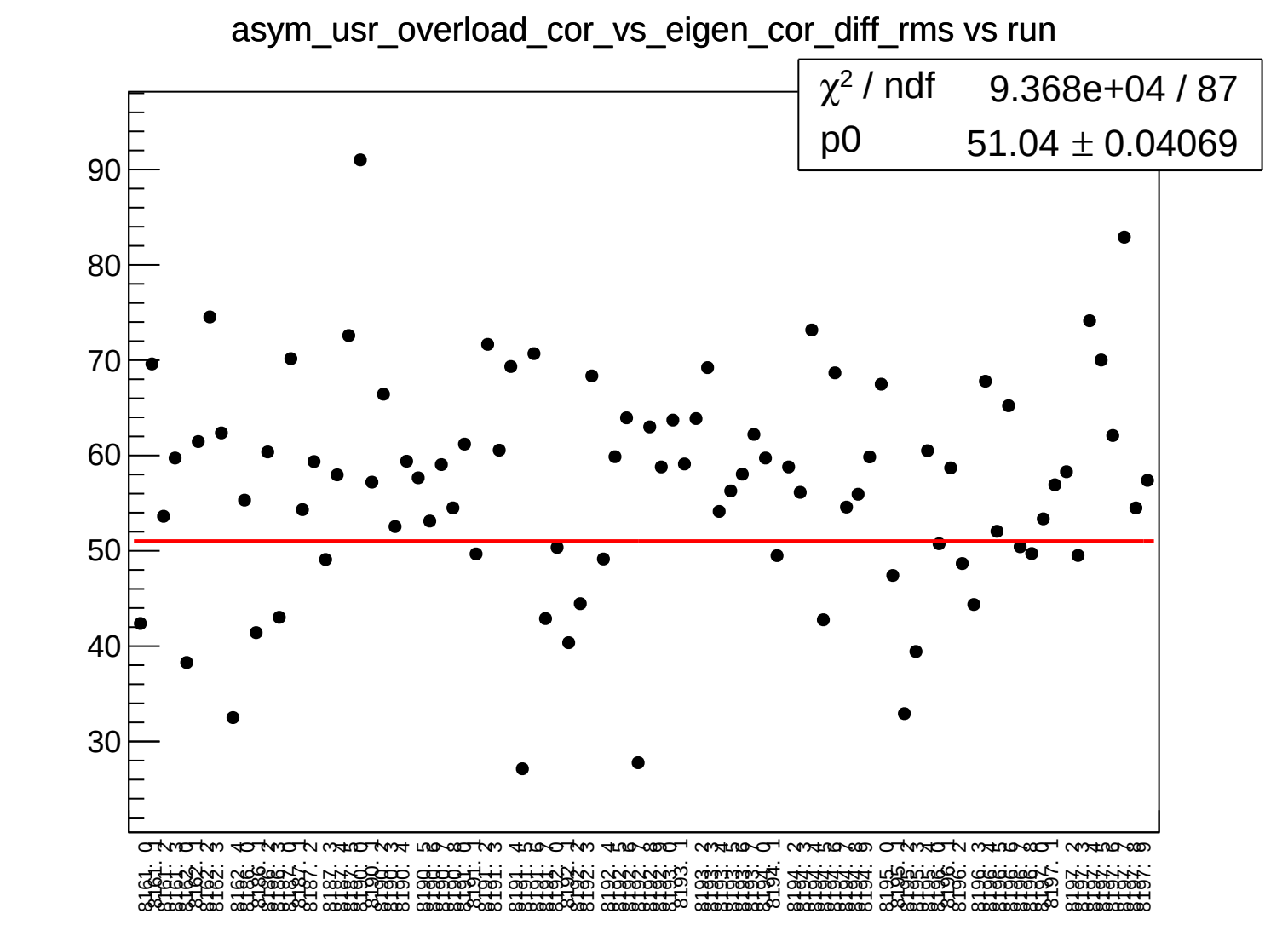

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.39 / 87
p0 −3.192e−13 ± 2.169e−13
pull
Entries 88
Mean −94.22
Std Dev 0
pull1D
Entries 88
Mean −0.0104
Std Dev 1.008

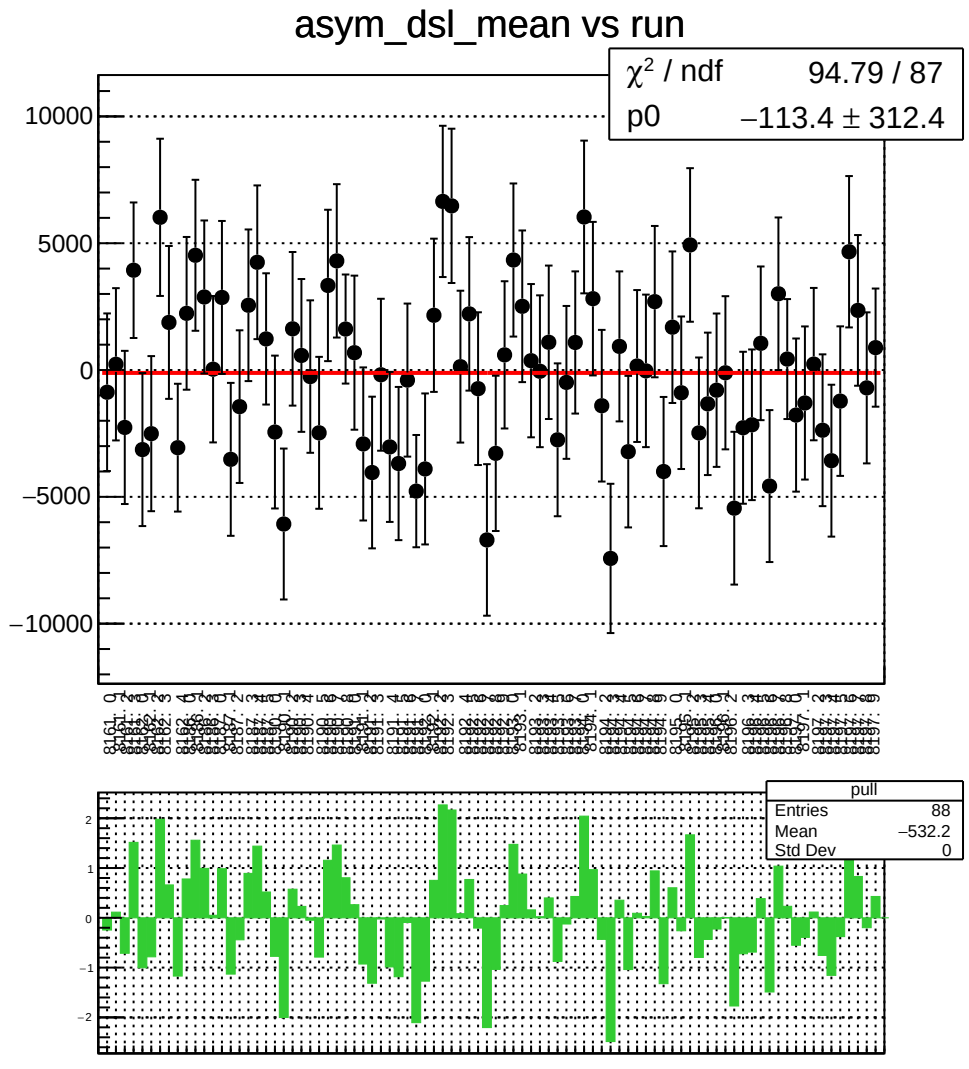

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.223e+05 / 87
p0 1.711e−10 ± 1.534e−13
1
0.8
0.6
0.4
0.2

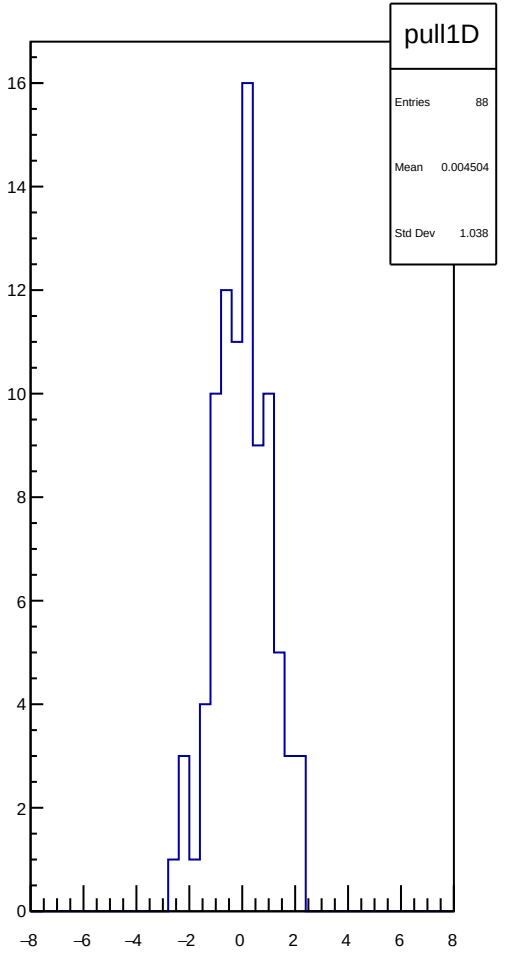

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 96.42 / 87
p0 −0.07745 ± 0.05754
pull
Entries 88
Mean 17.98
Std Dev 0
pull1D
Entries 88
Mean −0.02423
Std Dev 1.046

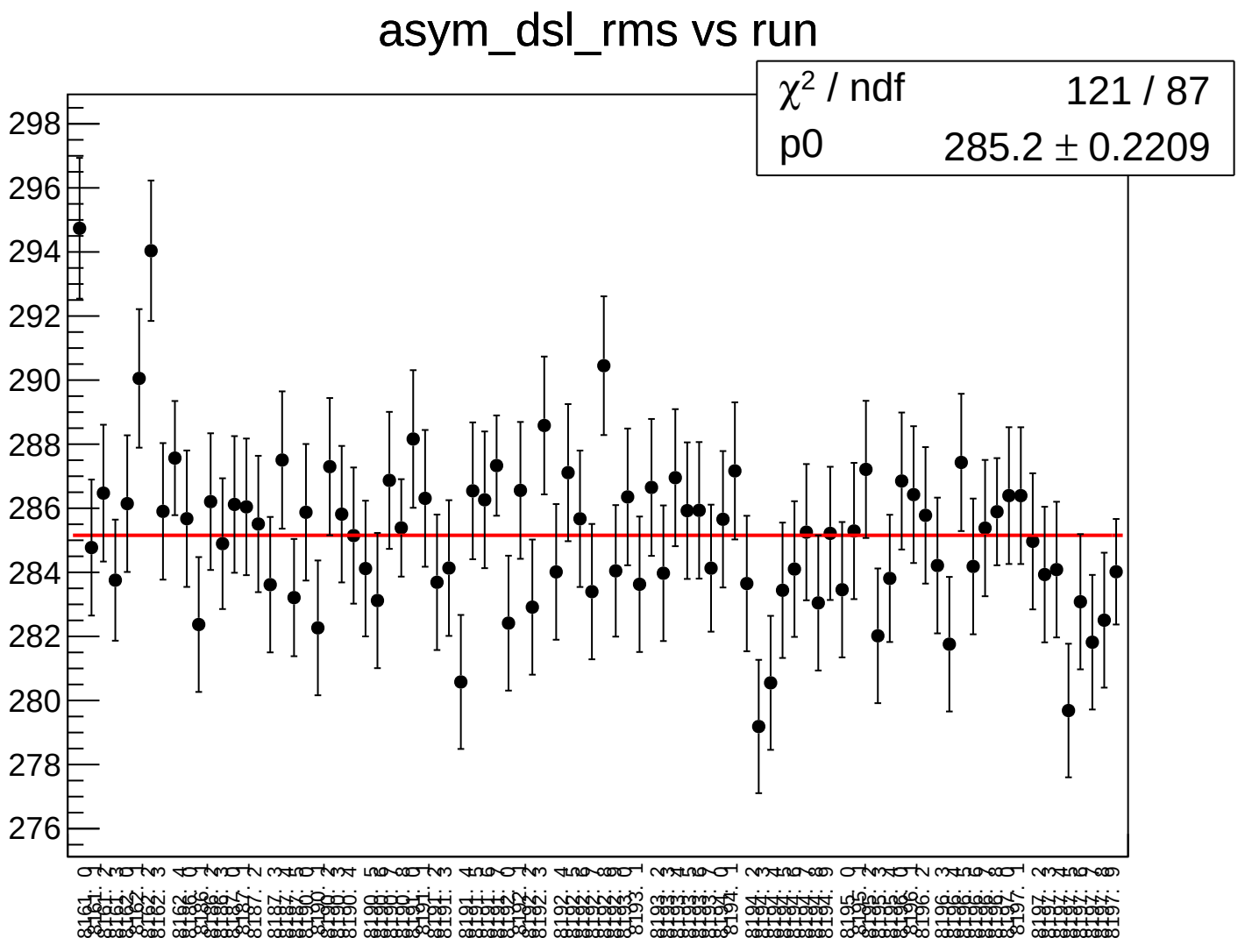

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.368e+04 / 87
p0 51.04 ± 0.04069
90
80
70
60
50
40
30

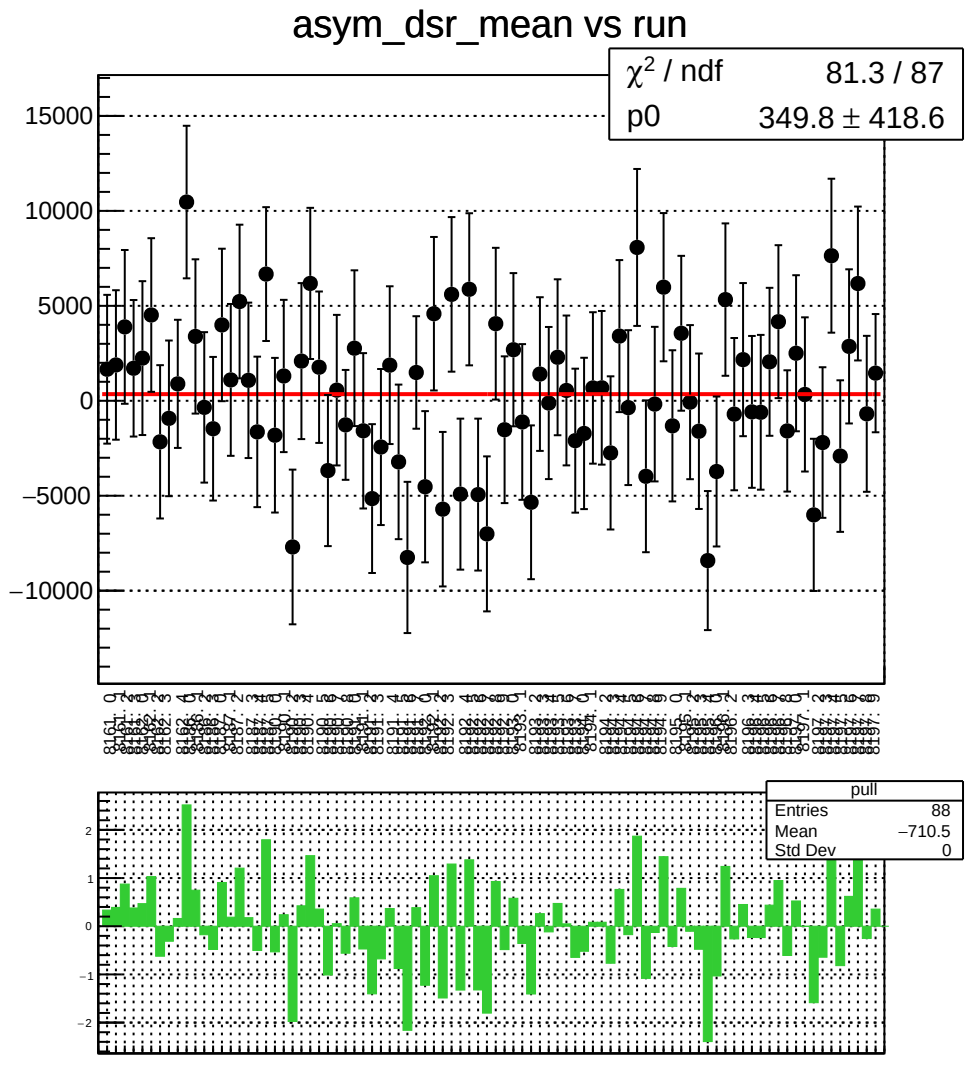

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.42 / 87
p0 −0.07745 ± 0.05754
pull
Entries 88
Mean 17.98
Std Dev 0
pull1D
Entries 88
Mean −0.02423
Std Dev 1.046

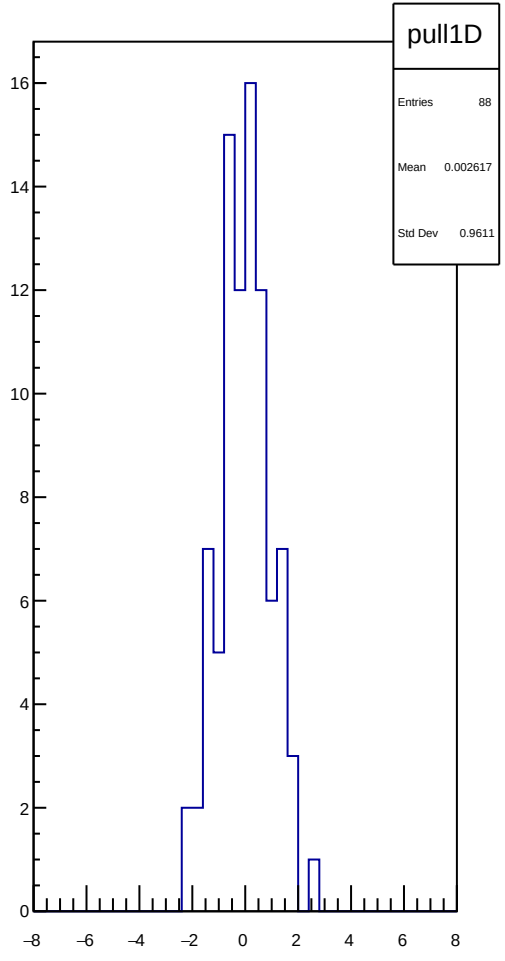

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.368e+04 / 87
p0 51.04 ± 0.04069
90
80
70
60
50
40
30

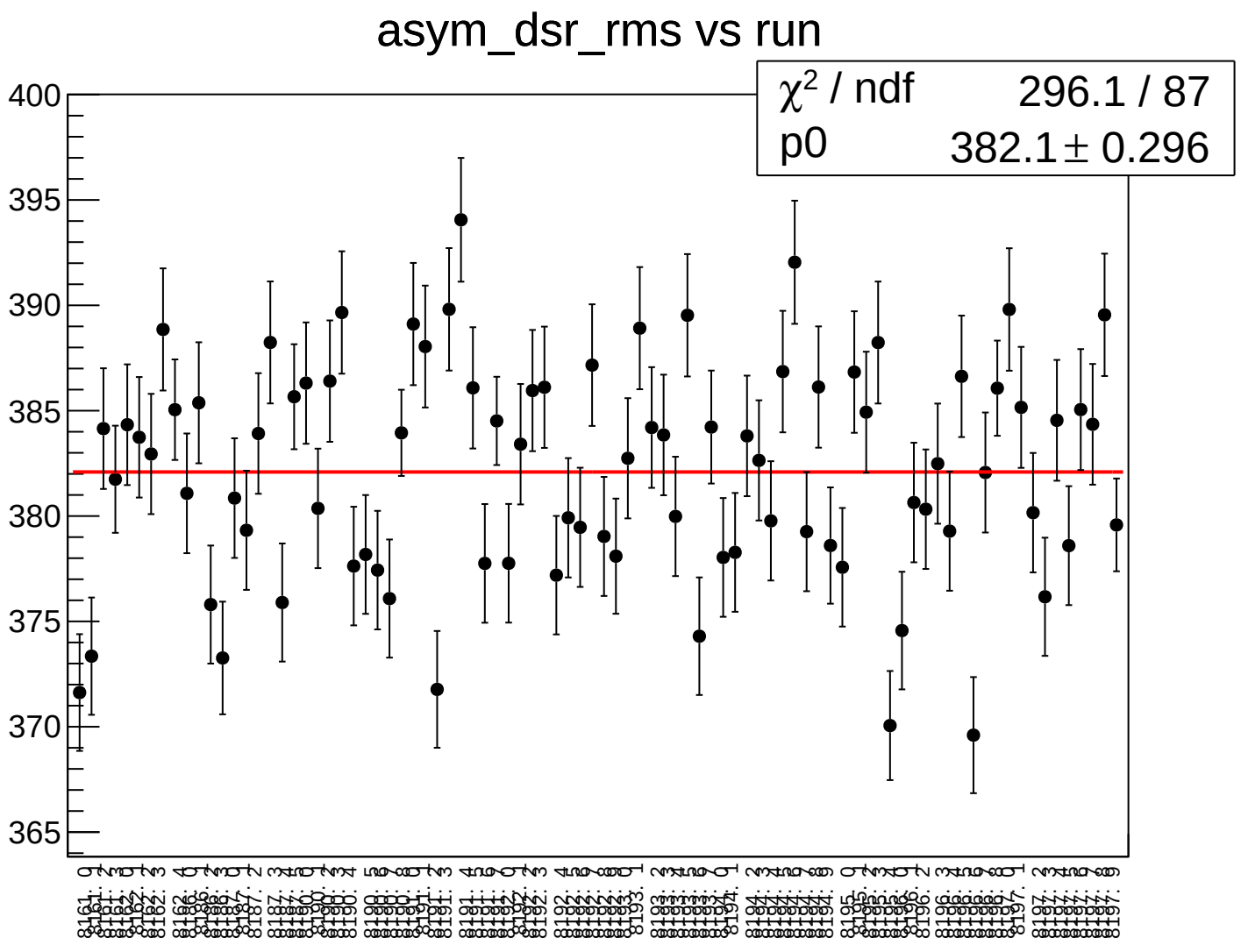

asym_dsl_mean vs run
χ² / ndf 94.79 / 87
p0 −113.4 ± 312.4
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −532.2
Std Dev 0
2
1
0
−1
−2

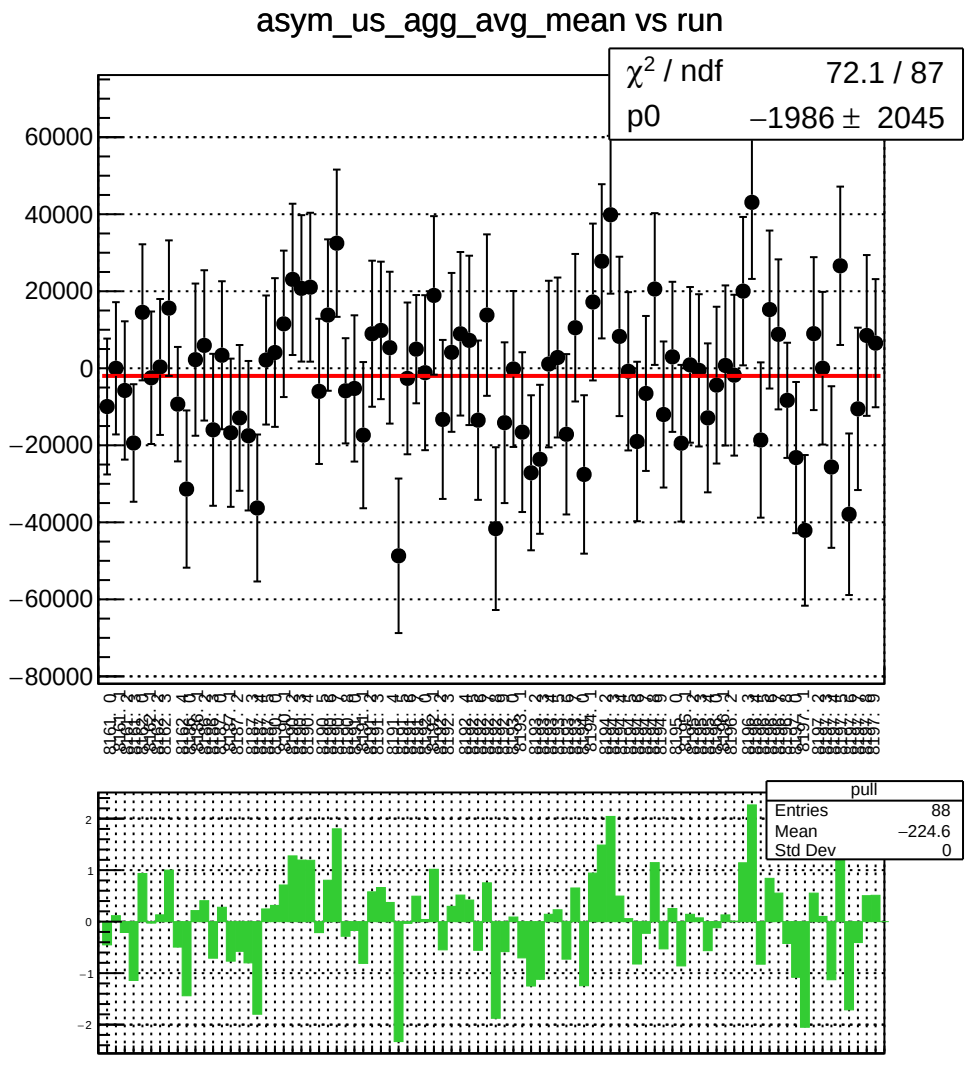

pull1D
Entries 88
Mean 0.004504
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

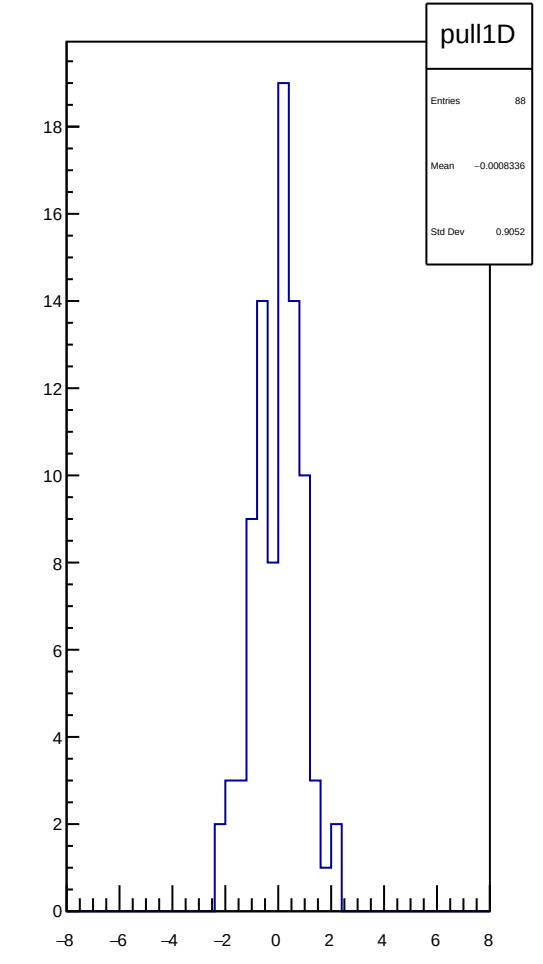

asym_dsl_rms vs run
χ² / ndf 121 / 87
p0 285.2 ± 0.2209
298
296
294
292
290
288
286
284
282
280
278
276

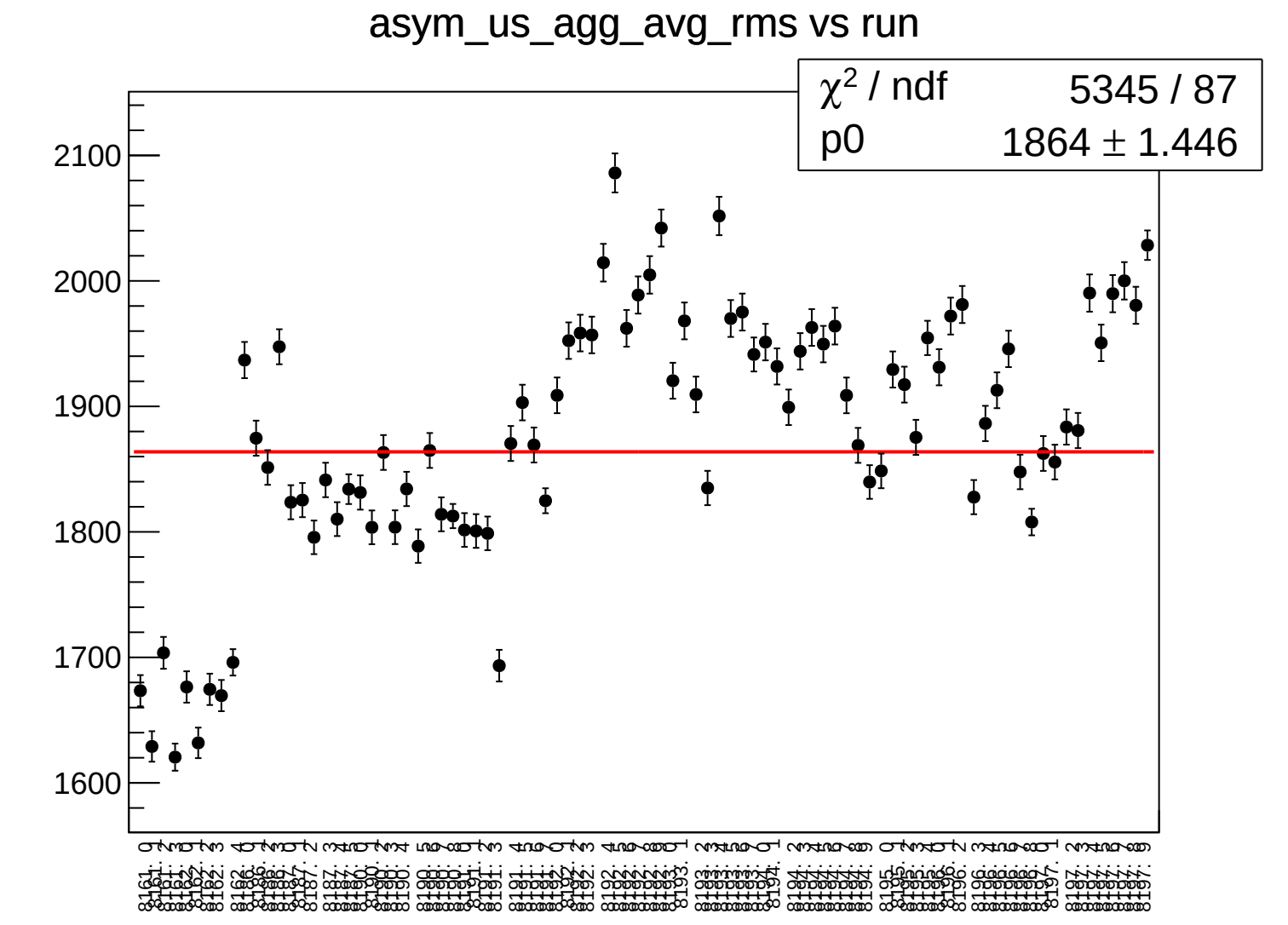

asym_dsr_mean vs run
χ² / ndf 81.3 / 87
p0 349.8 ± 418.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −710.5
Std Dev 0
2
1
0
−1
−2

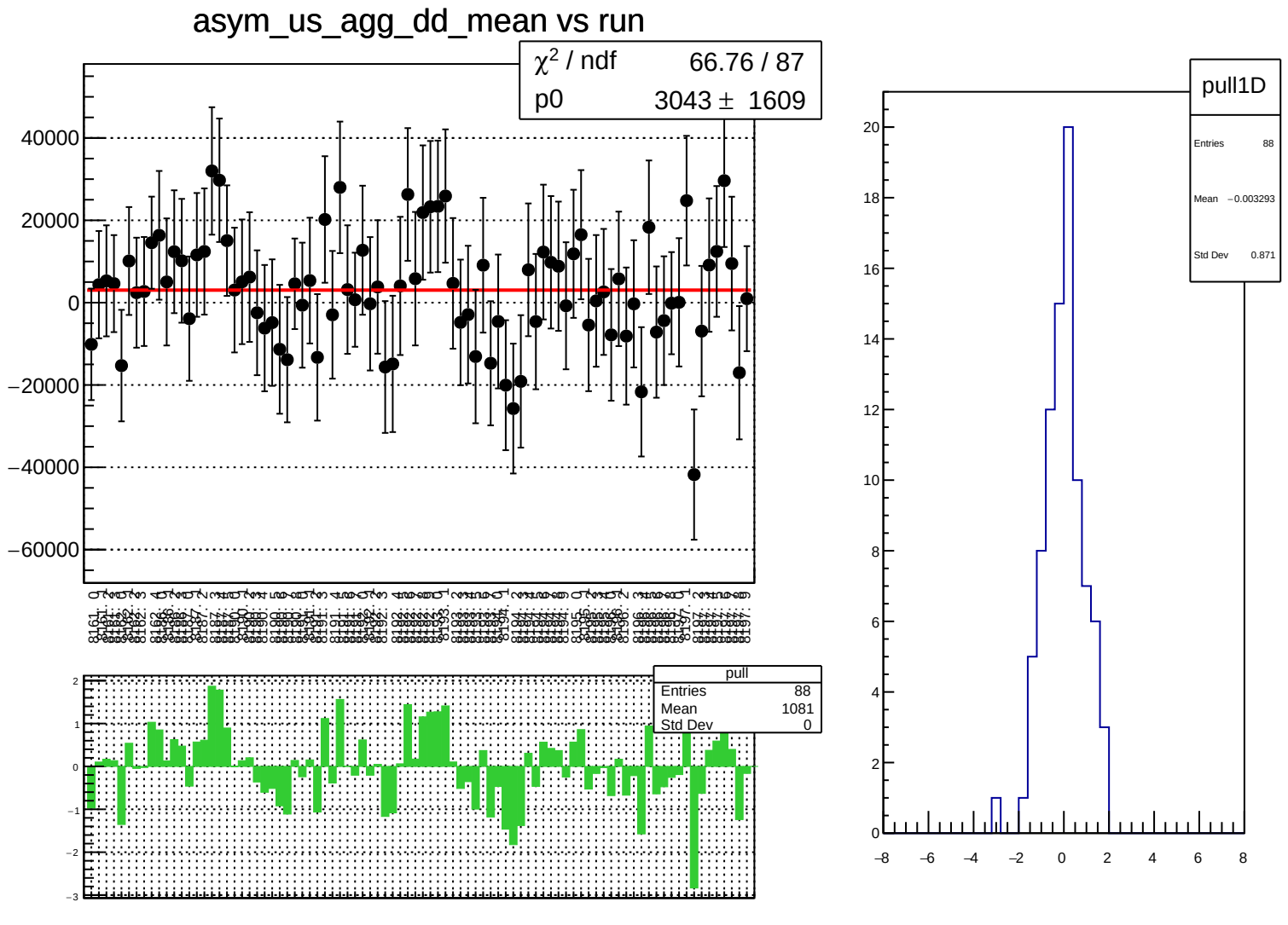

pull1D
Entries 88
Mean 0.002617
Std Dev 0.9611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

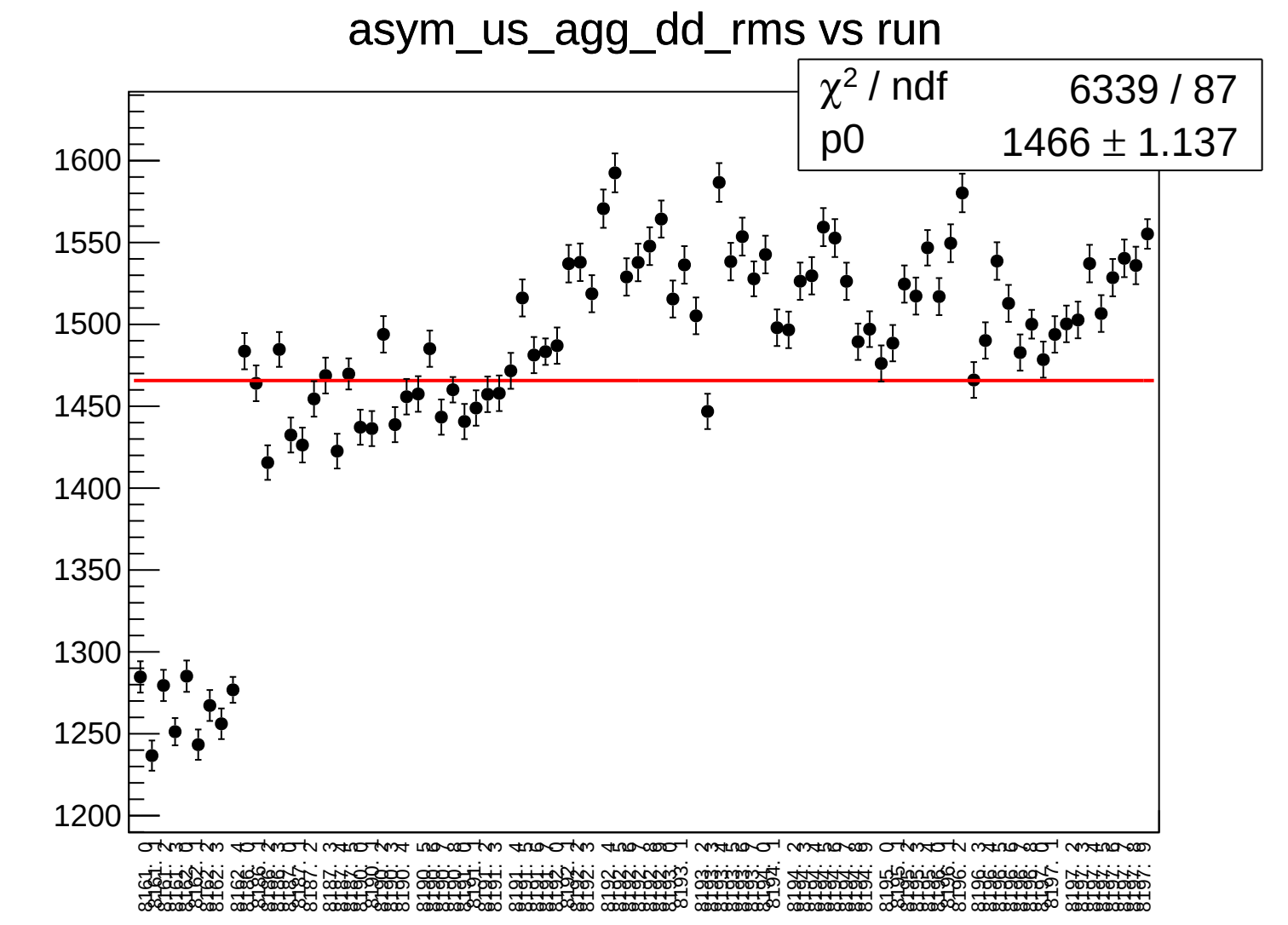

asym_dsr_rms vs run
χ² / ndf 296.1 / 87
p0 382.1 ± 0.296
400
395
390
385
380
375
370
365

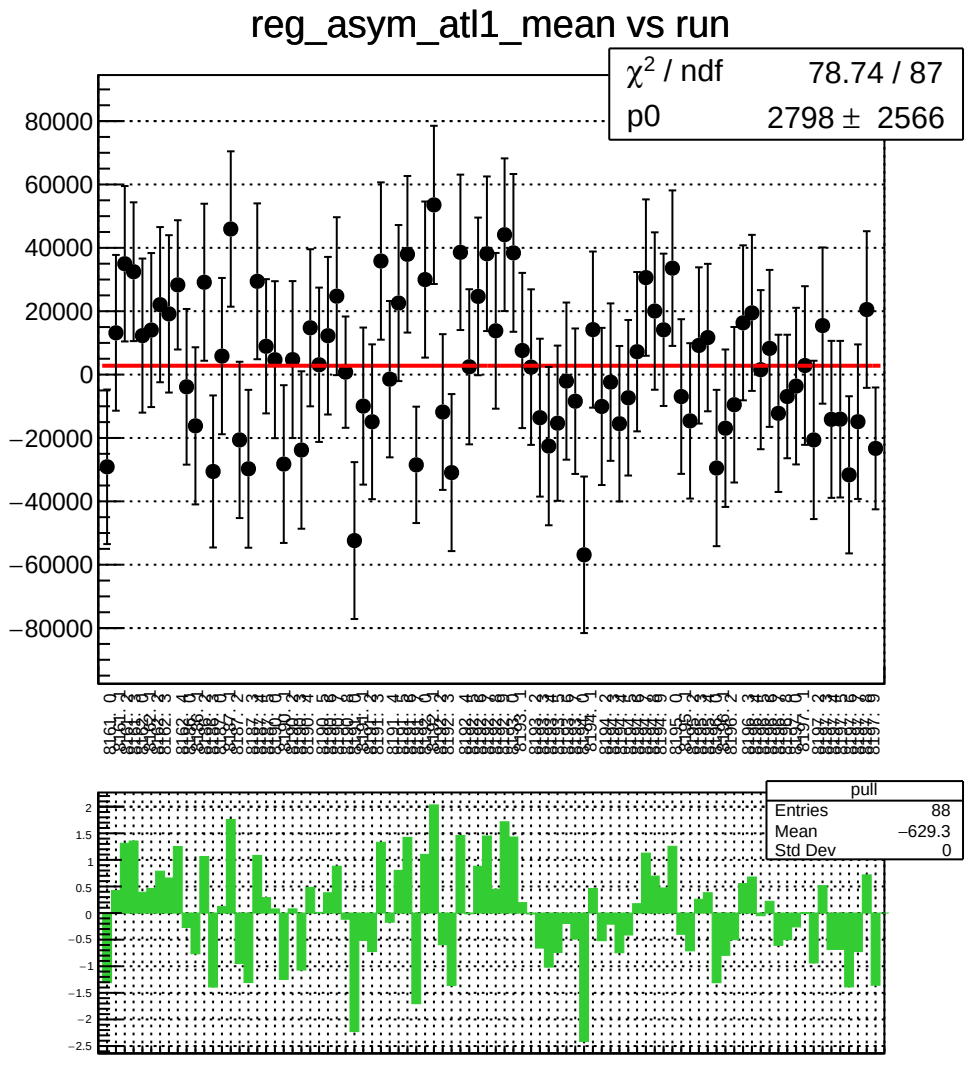

asym_us_agg_avg_mean vs run
χ² / ndf 72.1 / 87
p0 −1986 ± 2045
pull
Entries 88
Mean −224.6
Std Dev 0

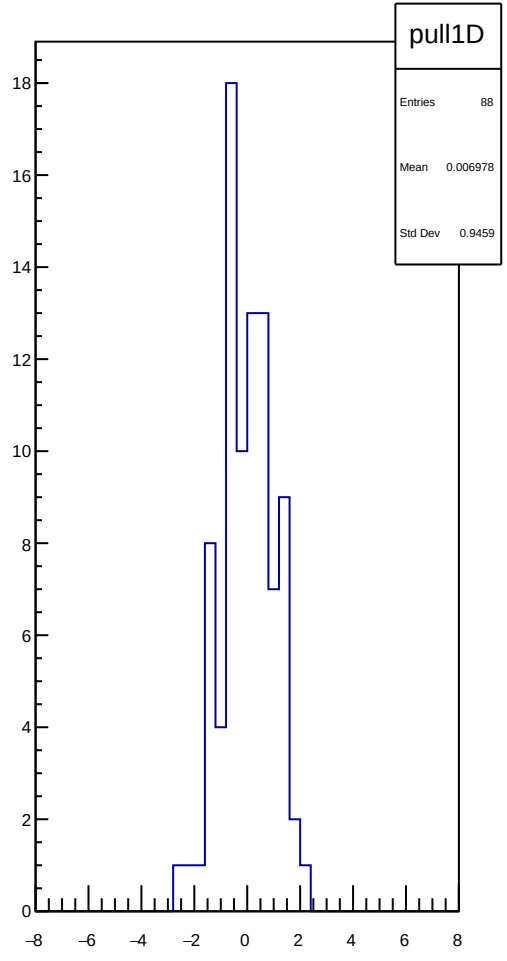

pull1D
Entries 88
Mean −0.0008336
Std Dev 0.9052

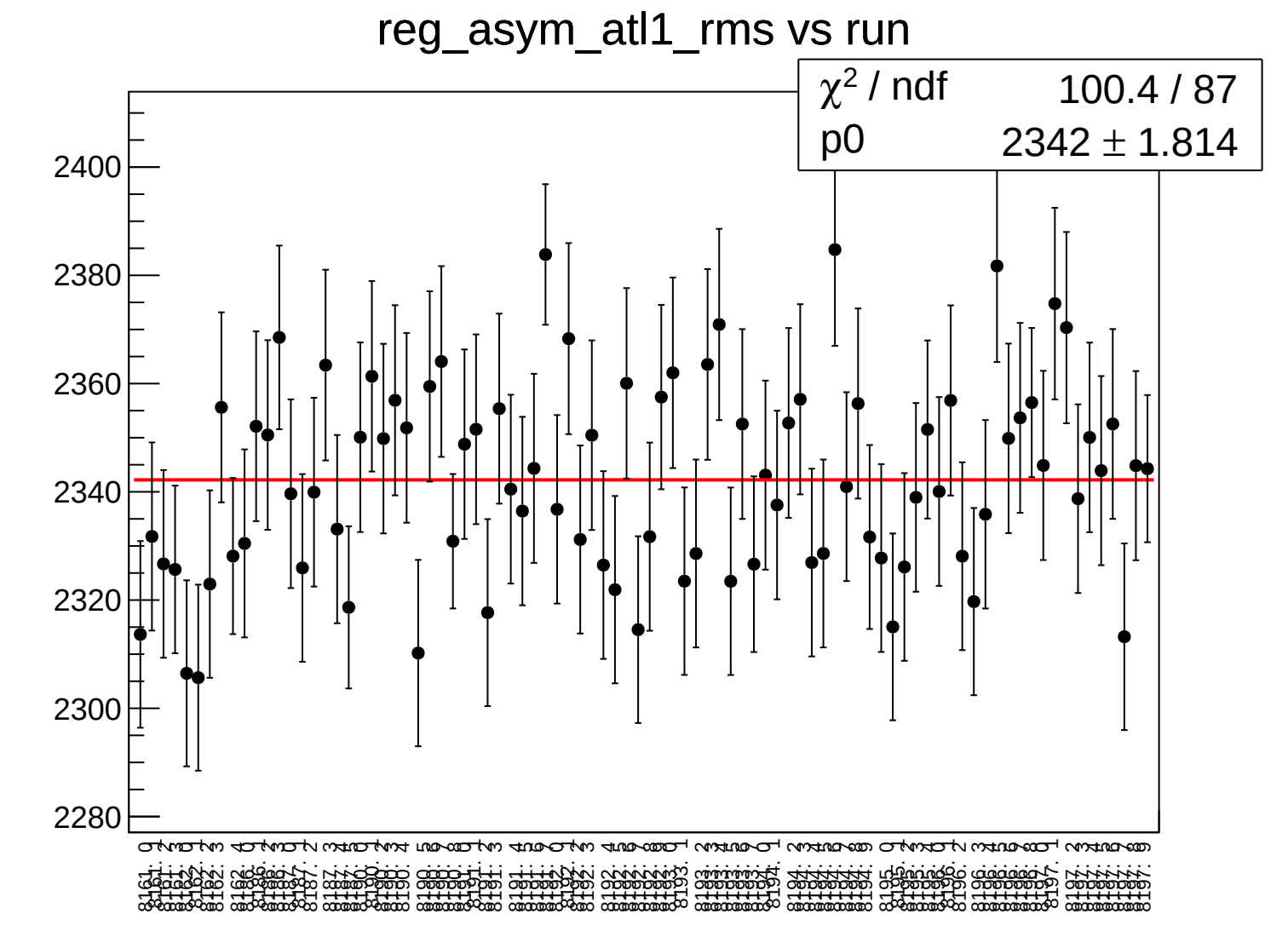

asym_us_agg_avg_rms vs run
χ² / ndf 5345 / 87
p0 1864 ± 1.446
2100
2000
1900
1800
1700
1600

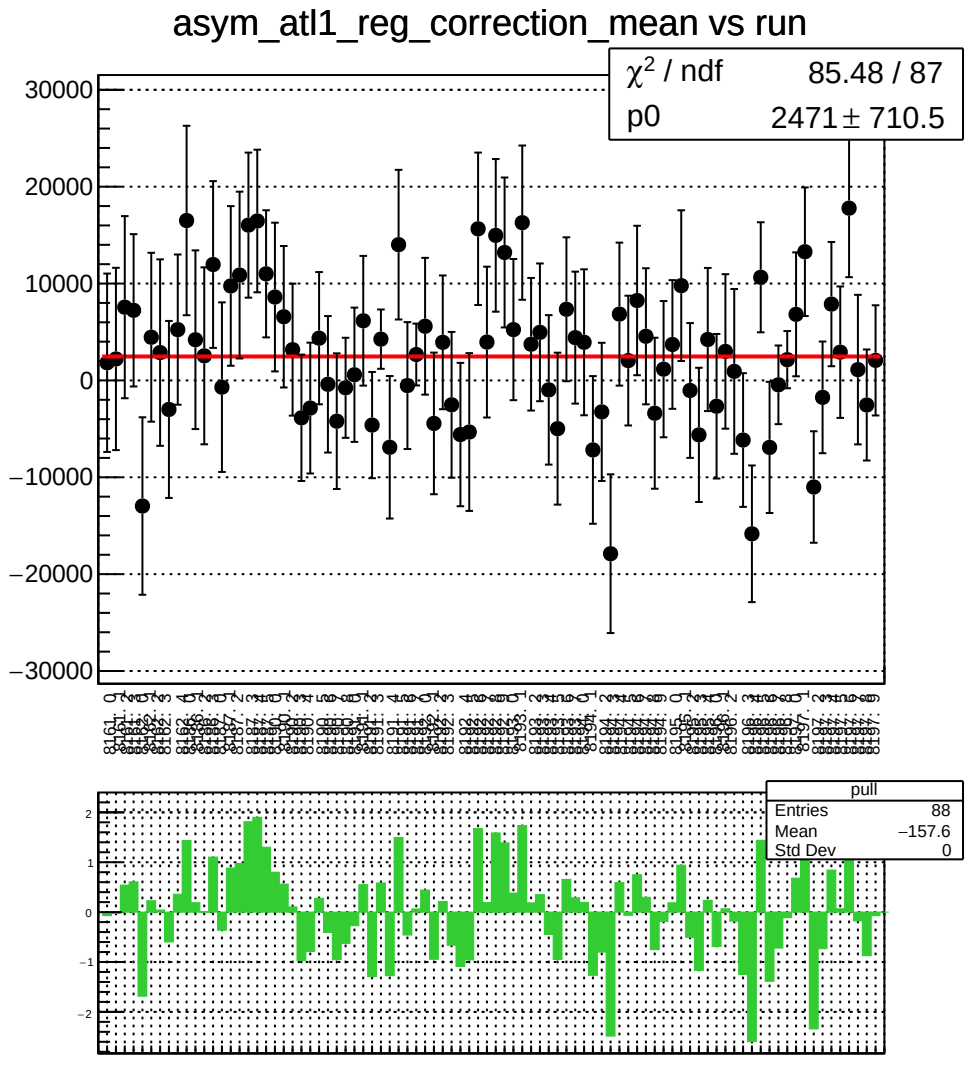

asym_us_agg_dd_mean vs run
χ² / ndf 66.76 / 87
p0 3043 ± 1609
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1081
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.003293
Std Dev 0.871
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

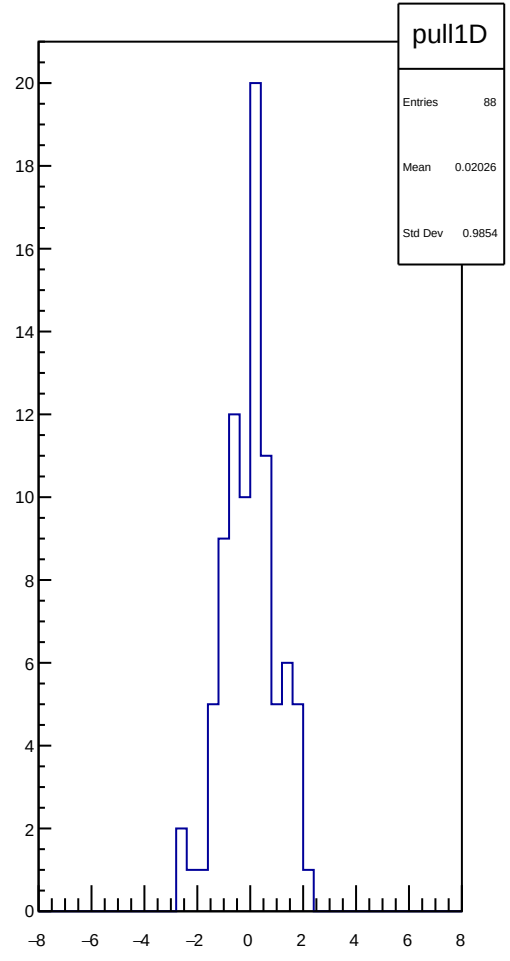

asym_us_agg_dd_rms vs run
χ² / ndf 6339 / 87
p0 1466 ± 1.137
1600
1550
1500
1450
1400
1350
1300
1250
1200

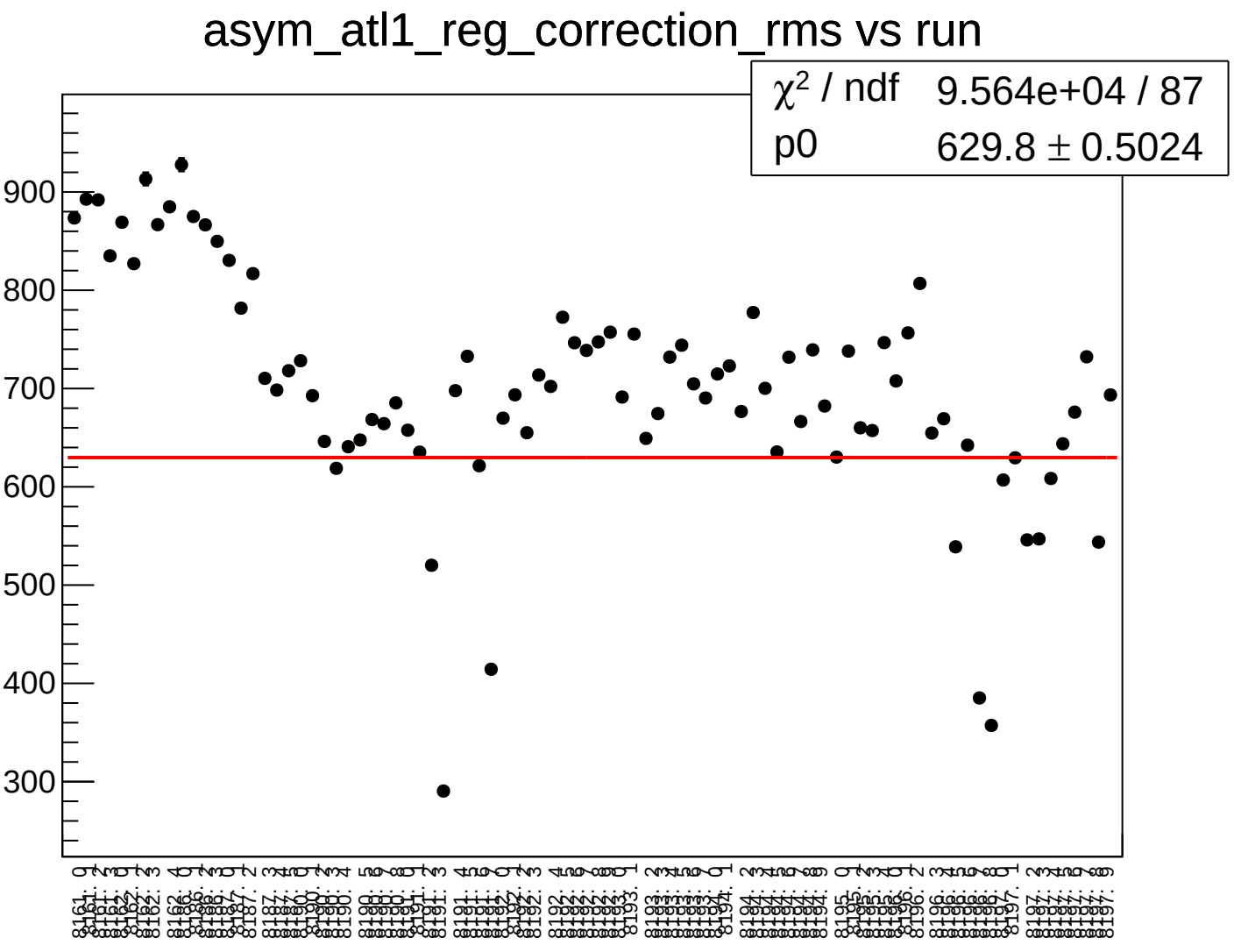

reg_asym_atl1_mean vs run
χ² / ndf 78.74 / 87
p0 2798 ± 2566
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −629.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

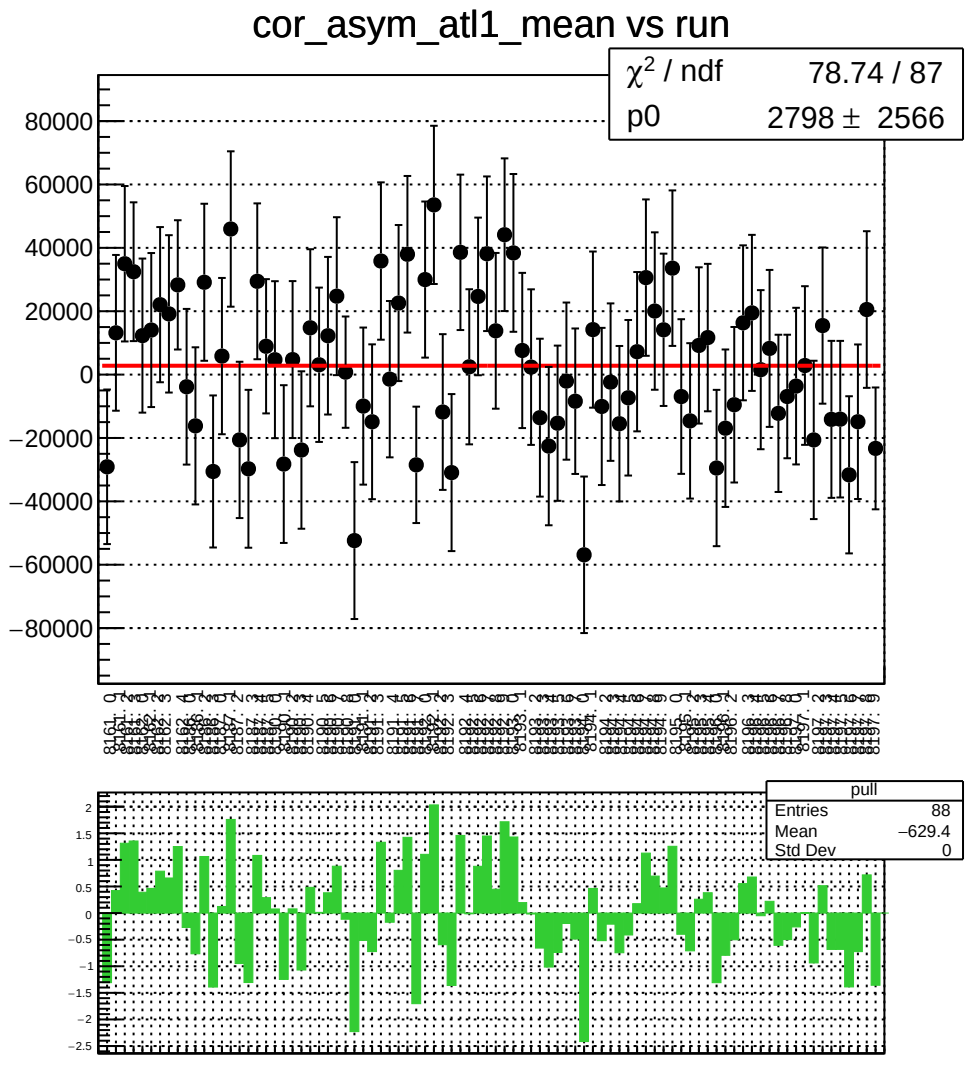

pull1D
Entries 88
Mean 0.006978
Std Dev 0.9459
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

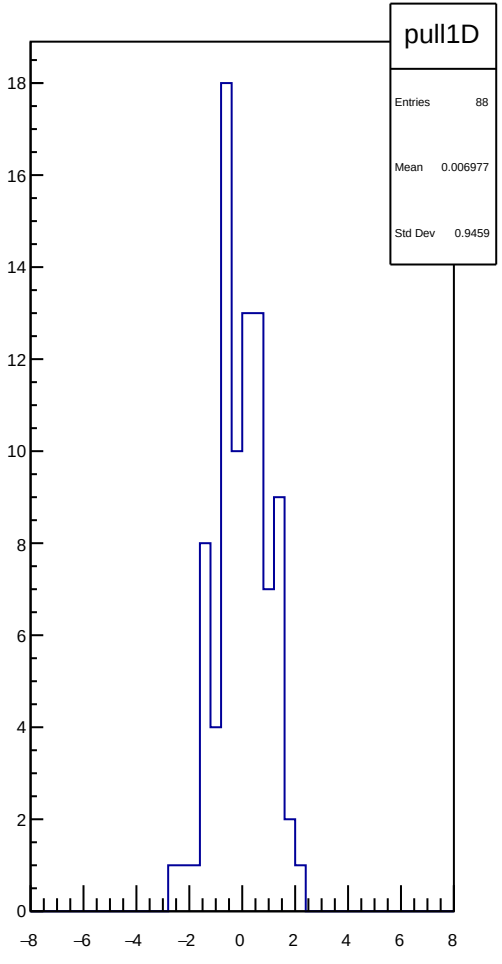

reg_asym_atl1_rms vs run
χ² / ndf 100.4 / 87
p0 2342 ± 1.814
2400
2380
2360
2340
2320
2300
2280

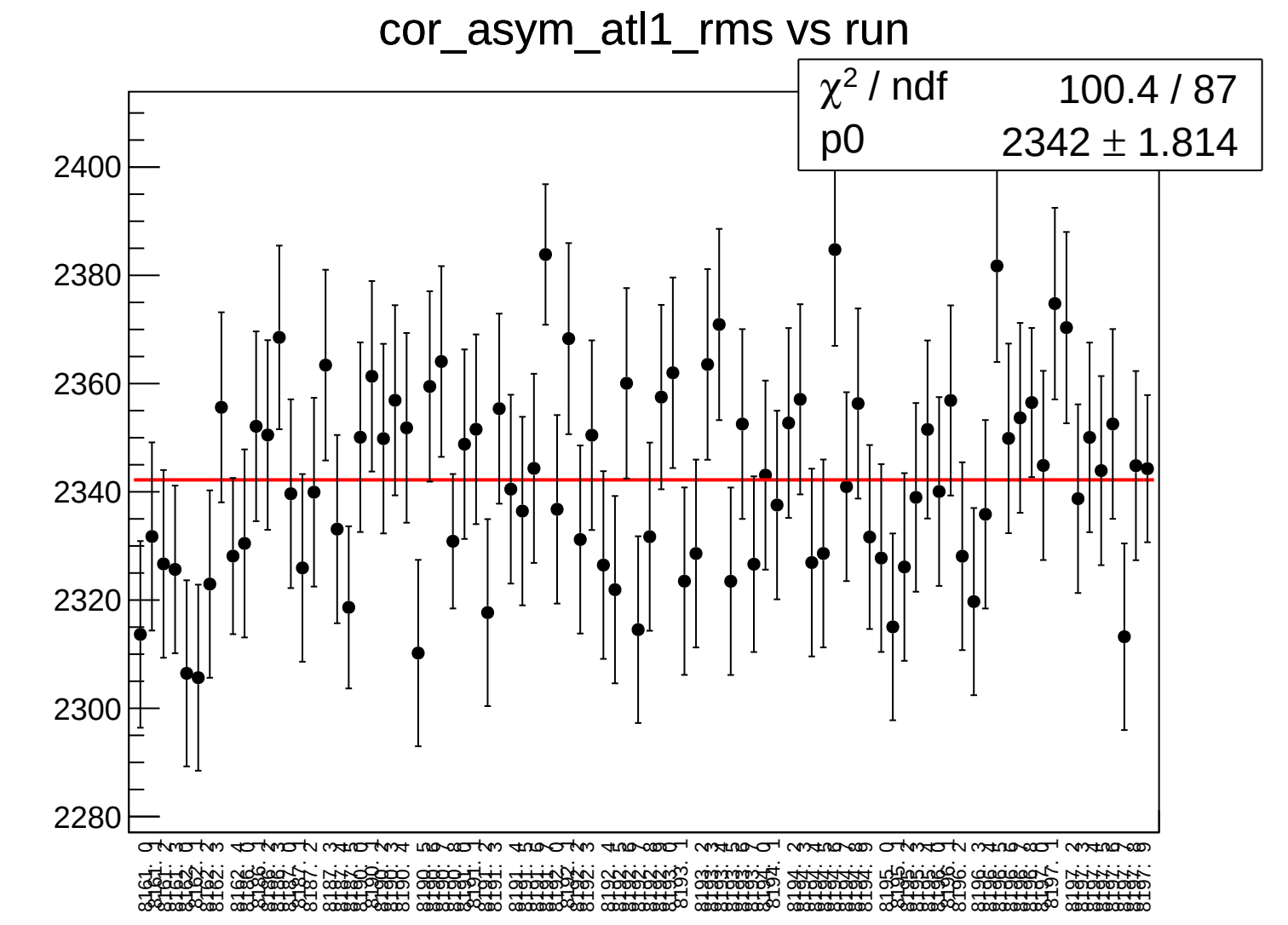

asym_atl1_reg_correction_mean vs run
χ² / ndf 85.48 / 87
p0 2471 ± 710.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −157.6
Std Dev 0
2
1
0
−1
−2

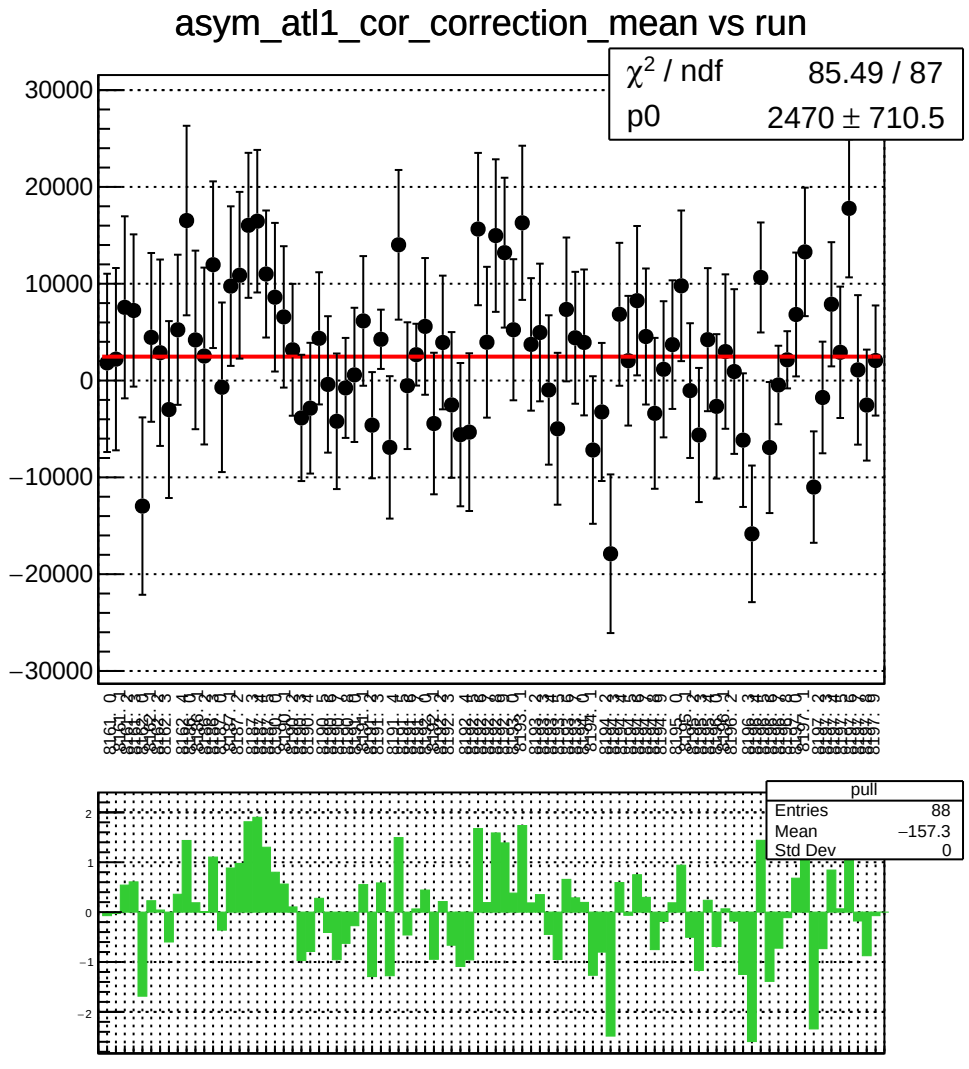

pull1D
Entries 88
Mean 0.02026
Std Dev 0.9854
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

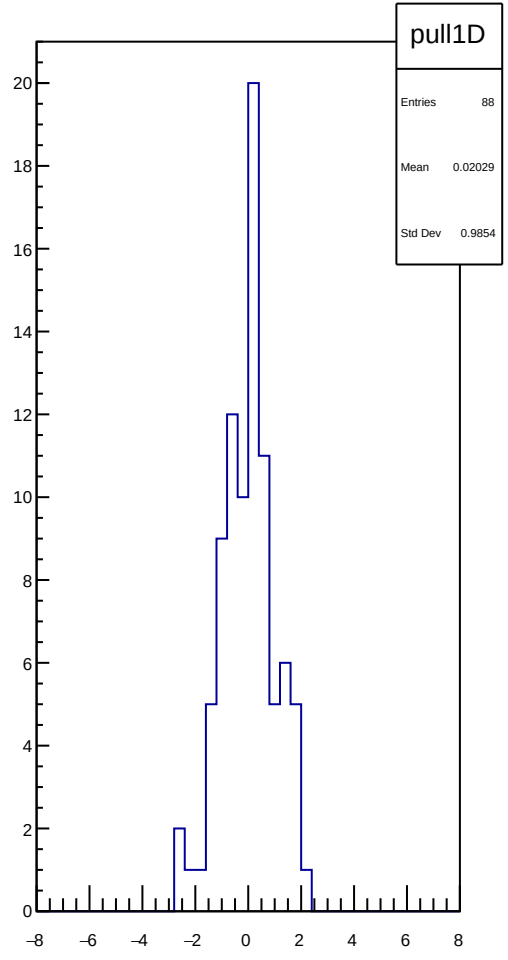

asym_atl1_reg_correction_rms vs run
χ² / ndf 9.564e+04 / 87
p0 629.8 ± 0.5024
900
800
700
600
500
400
300

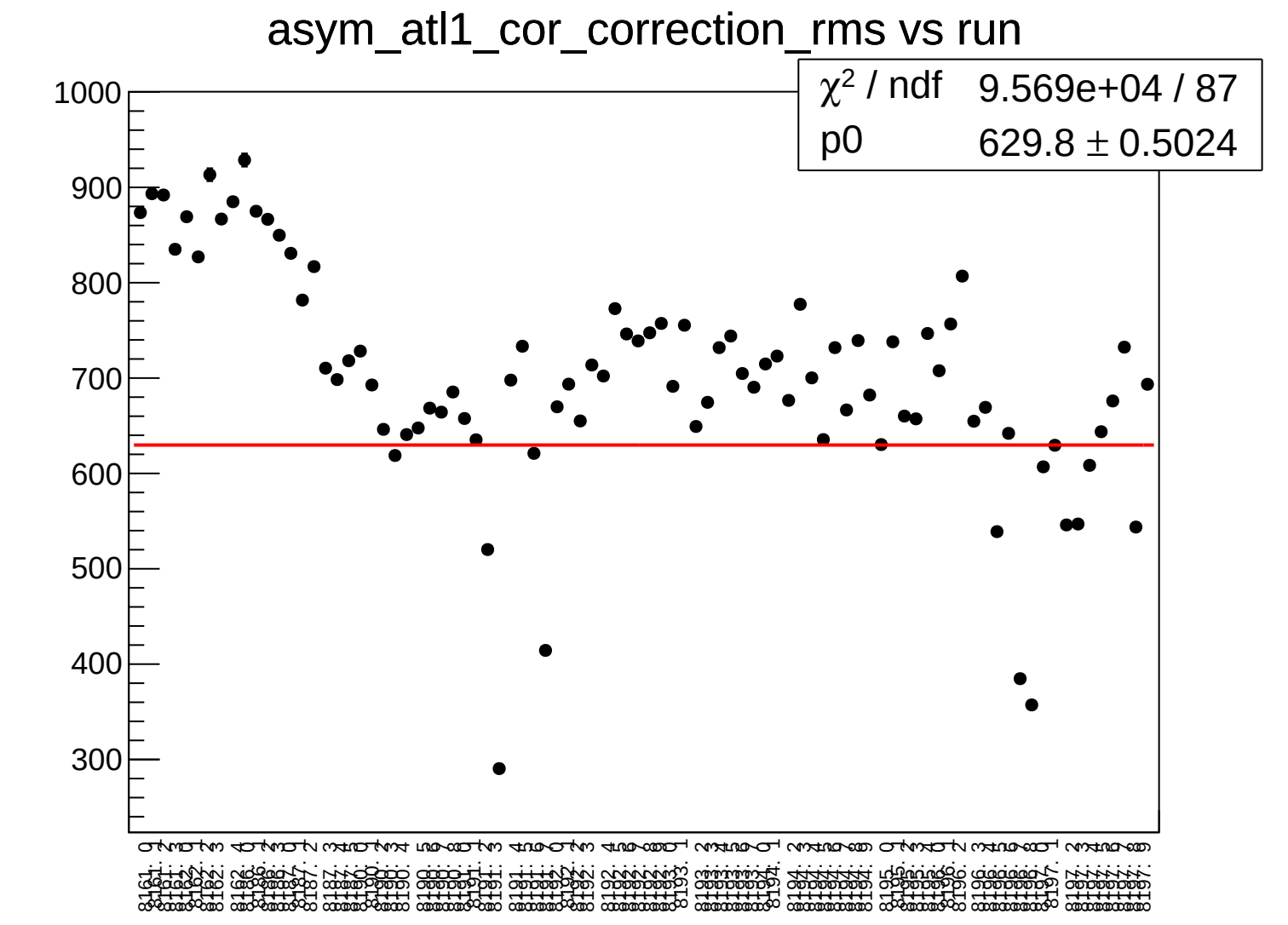

cor_asym_atl1_mean vs run
χ² / ndf 78.74 / 87
p0 2798 ± 2566
pull
Entries 88
Mean −629.4
Std Dev 0

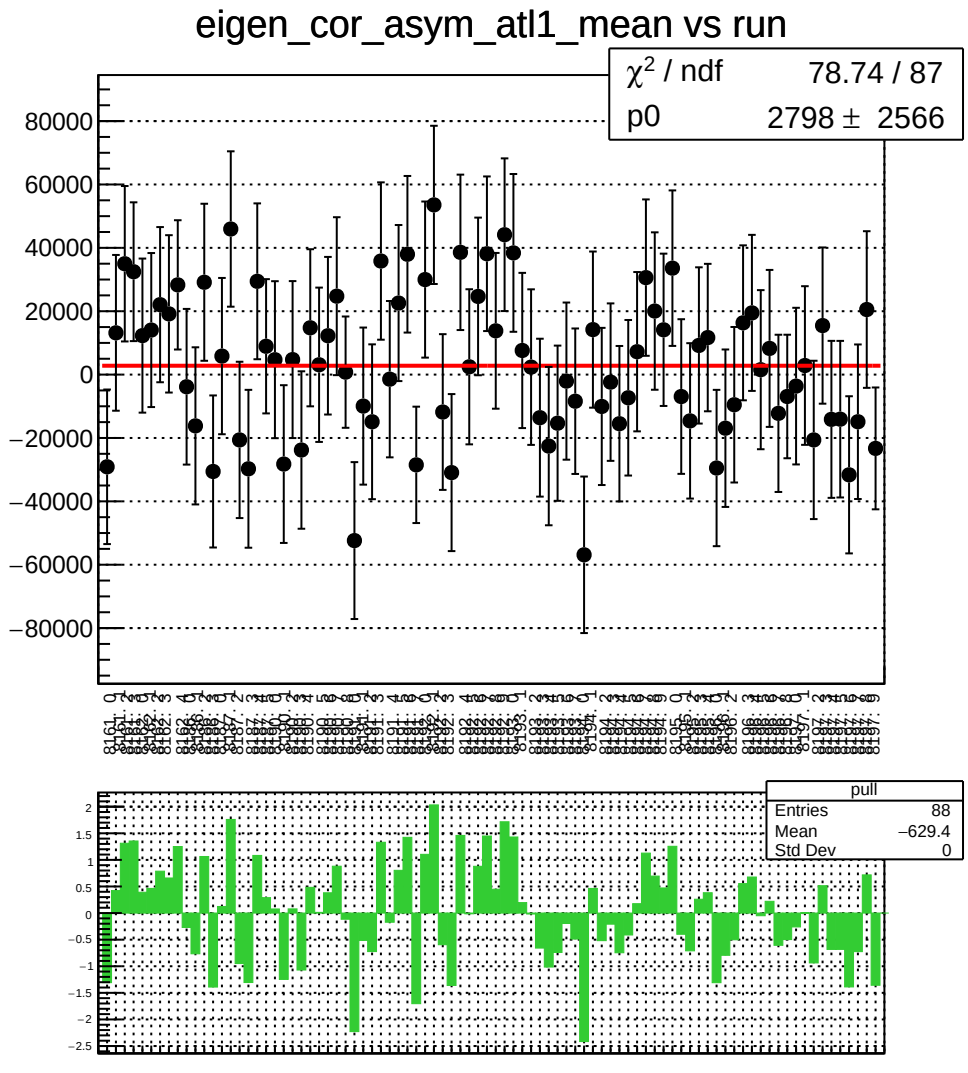

pull1D
Entries 88
Mean 0.006977
Std Dev 0.9459

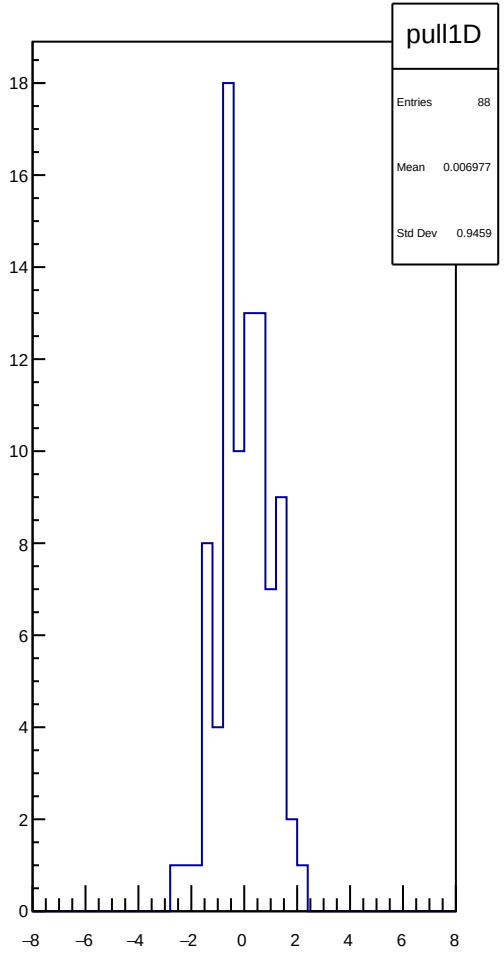

cor_asym_atl1_rms vs run
χ^2 / ndf 100.4 / 87
p0 2342 ± 1.814
2400
2380
2360
2340
2320
2300
2280

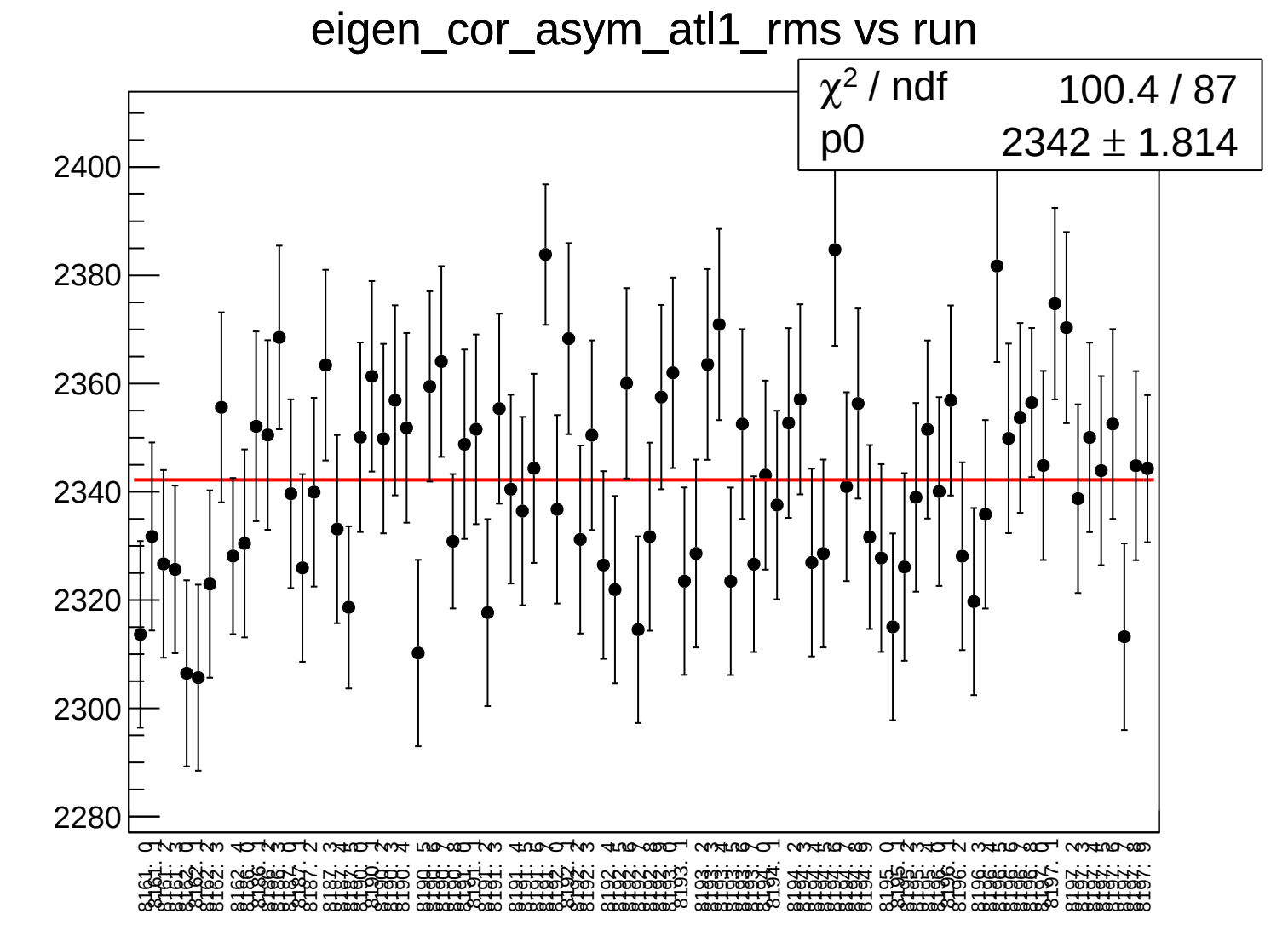

asym_atl1_cor_correction_mean vs run
χ² / ndf 85.49 / 87
p0 2470 ± 710.5
pull
Entries 88
Mean −157.3
Std Dev 0

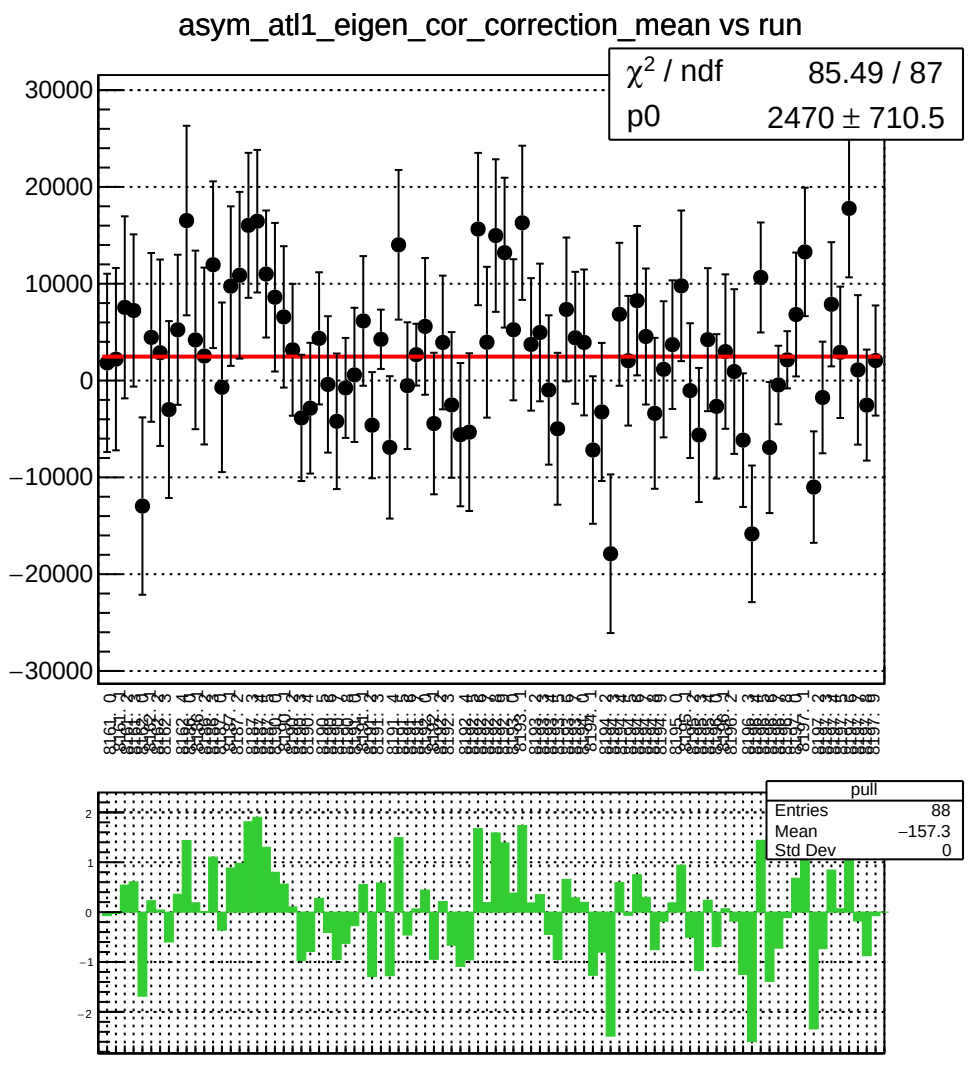

pull1D
Entries 88
Mean 0.02029
Std Dev 0.9854

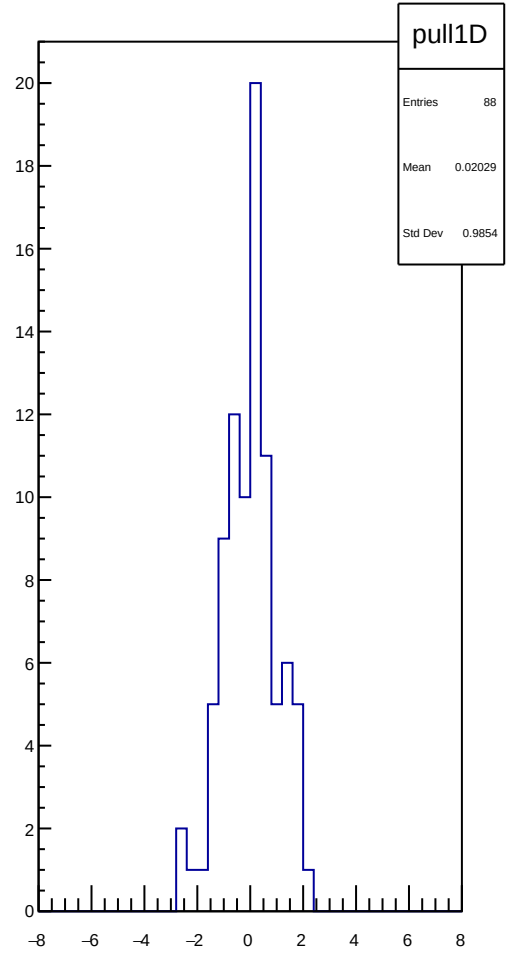

asym_atl1_cor_correction_rms vs run
χ² / ndf 9.569e+04 / 87
p0 629.8 ± 0.5024
1000
900
800
700
600
500
400
300

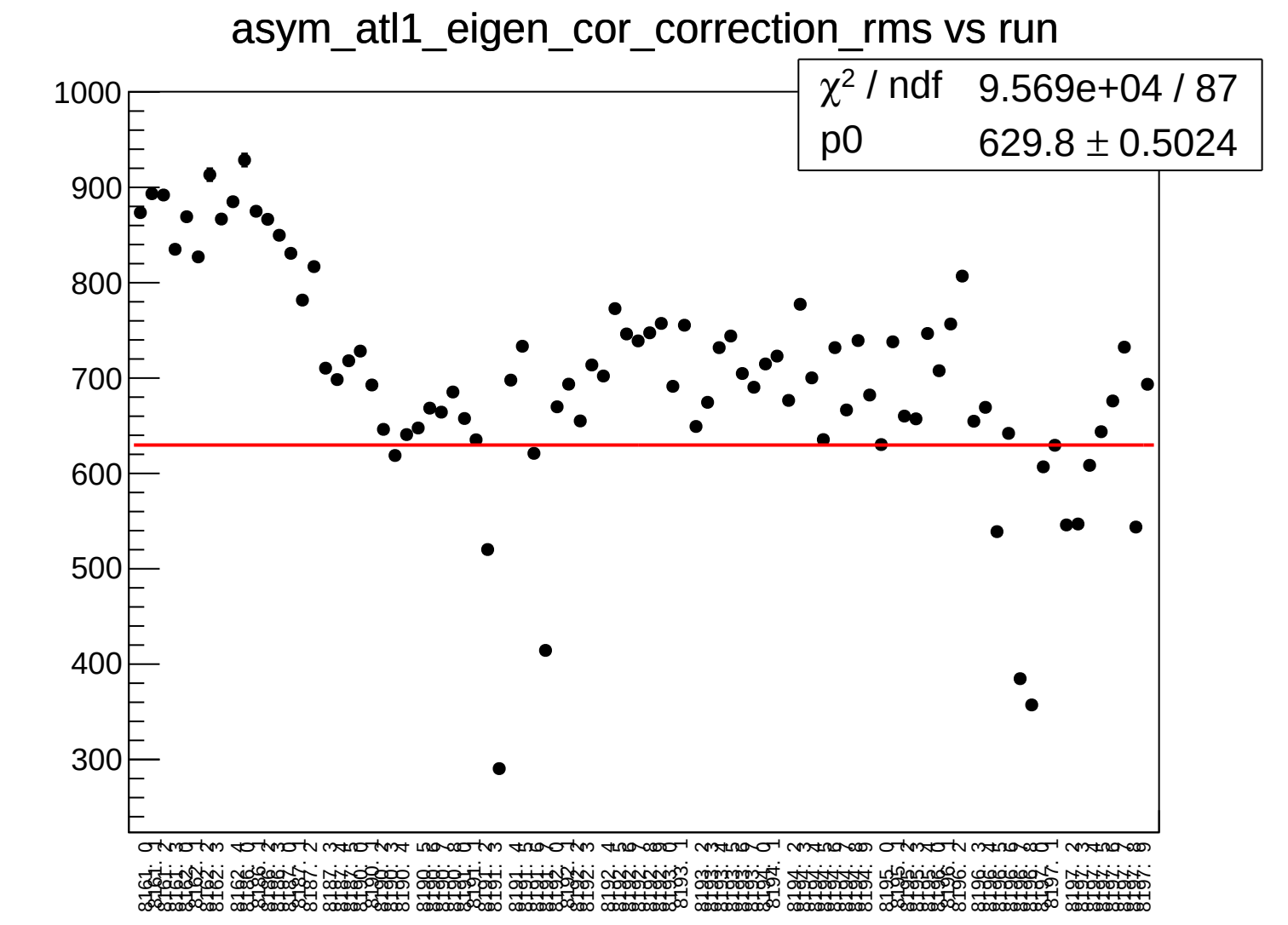

eigen_cor_asym_atl1_mean vs run
χ² / ndf 78.74 / 87
p0 2798 ± 2566
pull
Entries 88
Mean −629.4
Std Dev 0

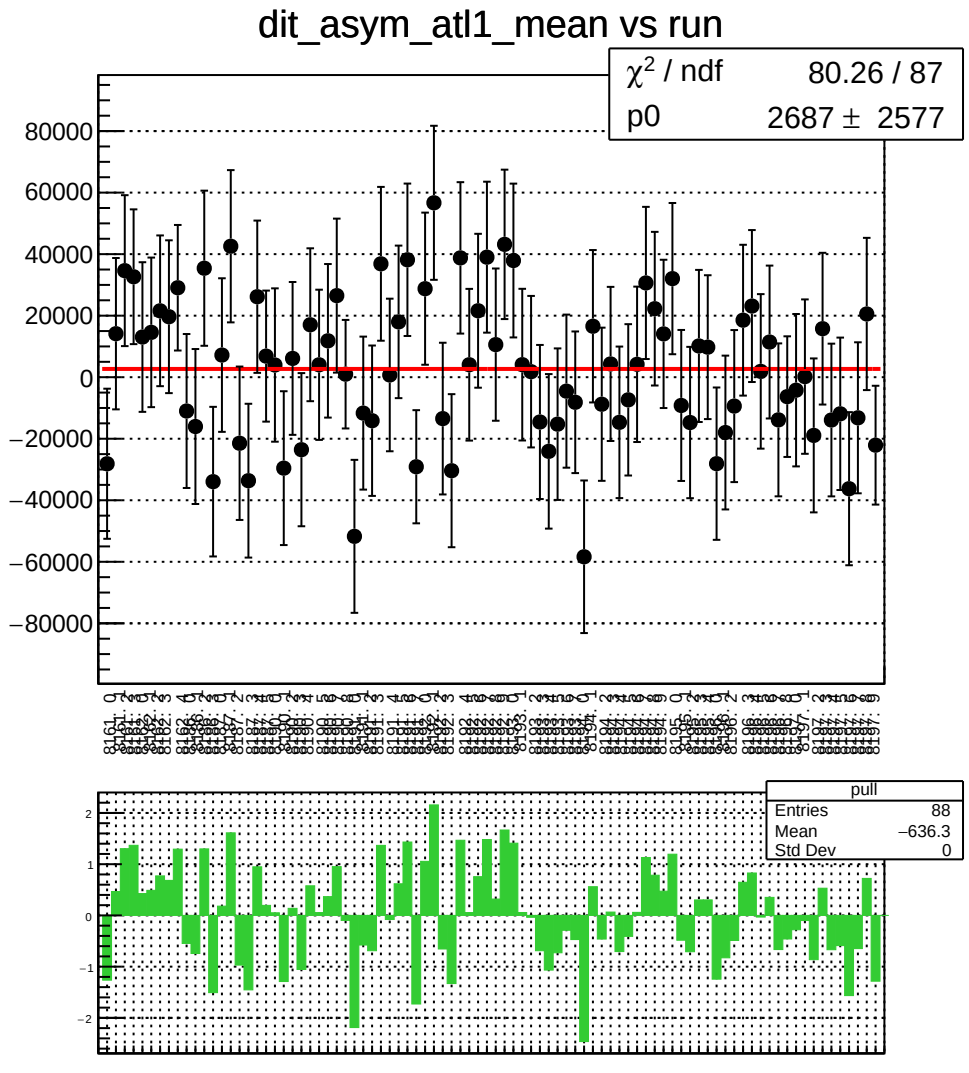

pull1D
Entries 88
Mean 0.006977
Std Dev 0.9459

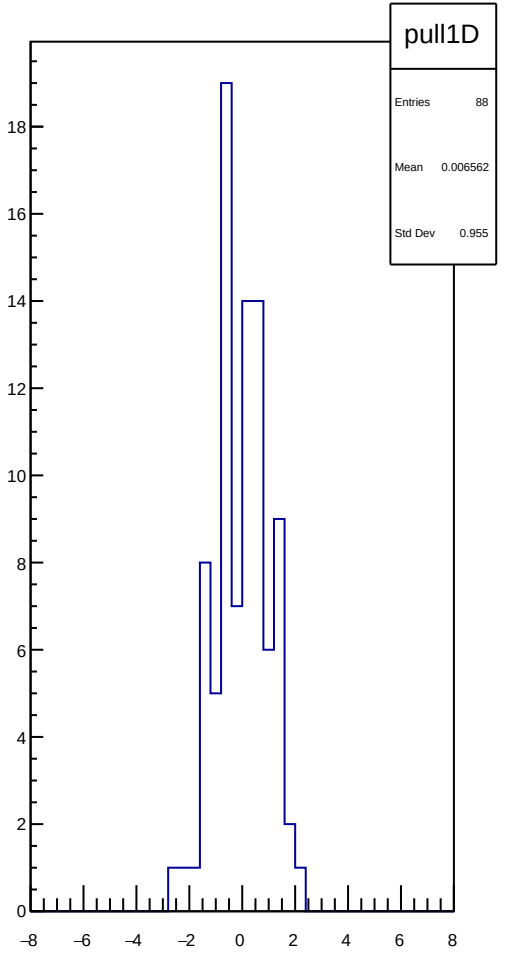

eigen_cor_asym_atl1_rms vs run
χ² / ndf 100.4 / 87
p0 2342 ± 1.814
2400
2380
2360
2340
2320
2300
2280

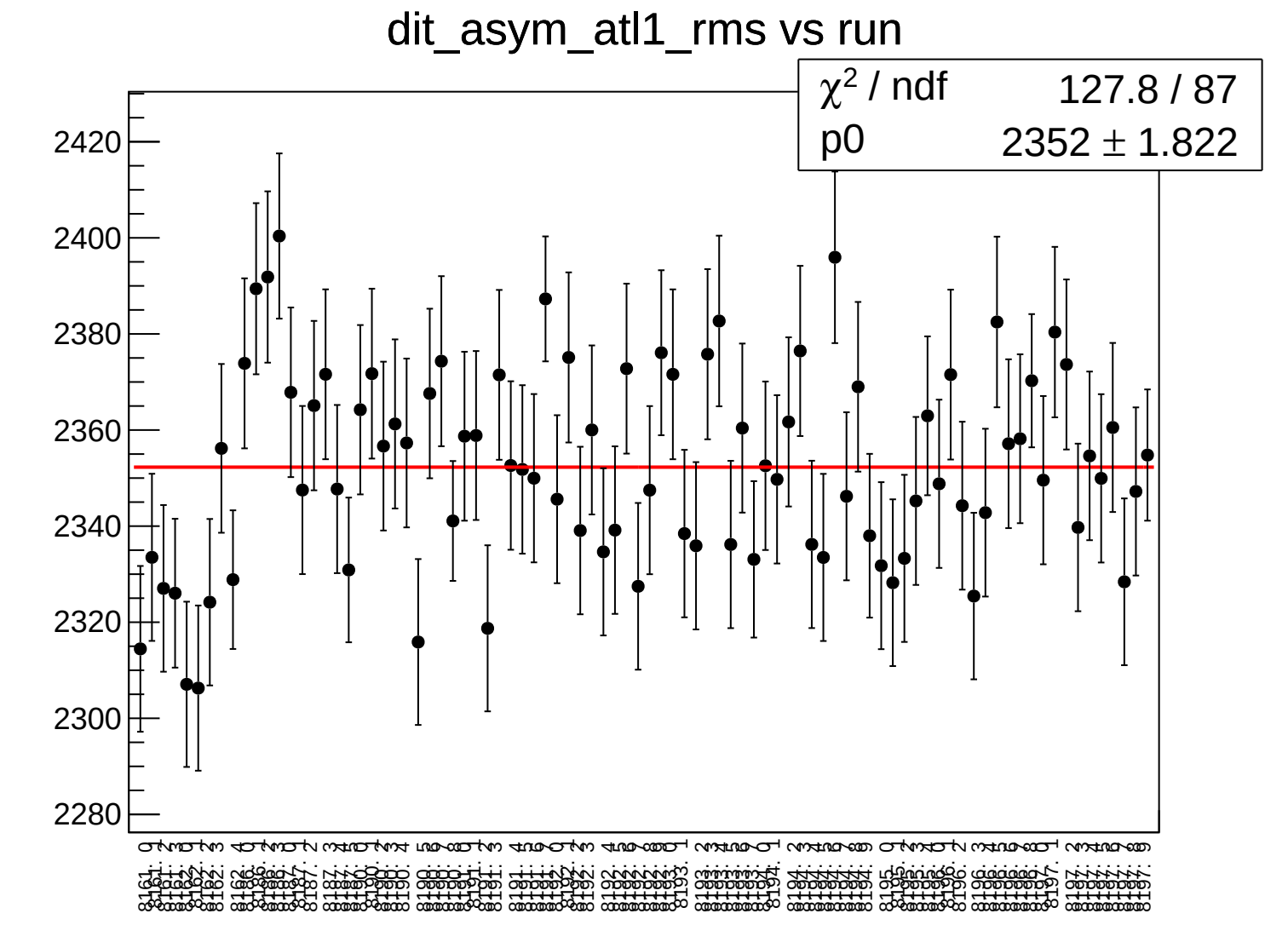

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 85.49 / 87
p0 2470 ± 710.5
pull
Entries 88
Mean −157.3
Std Dev 0

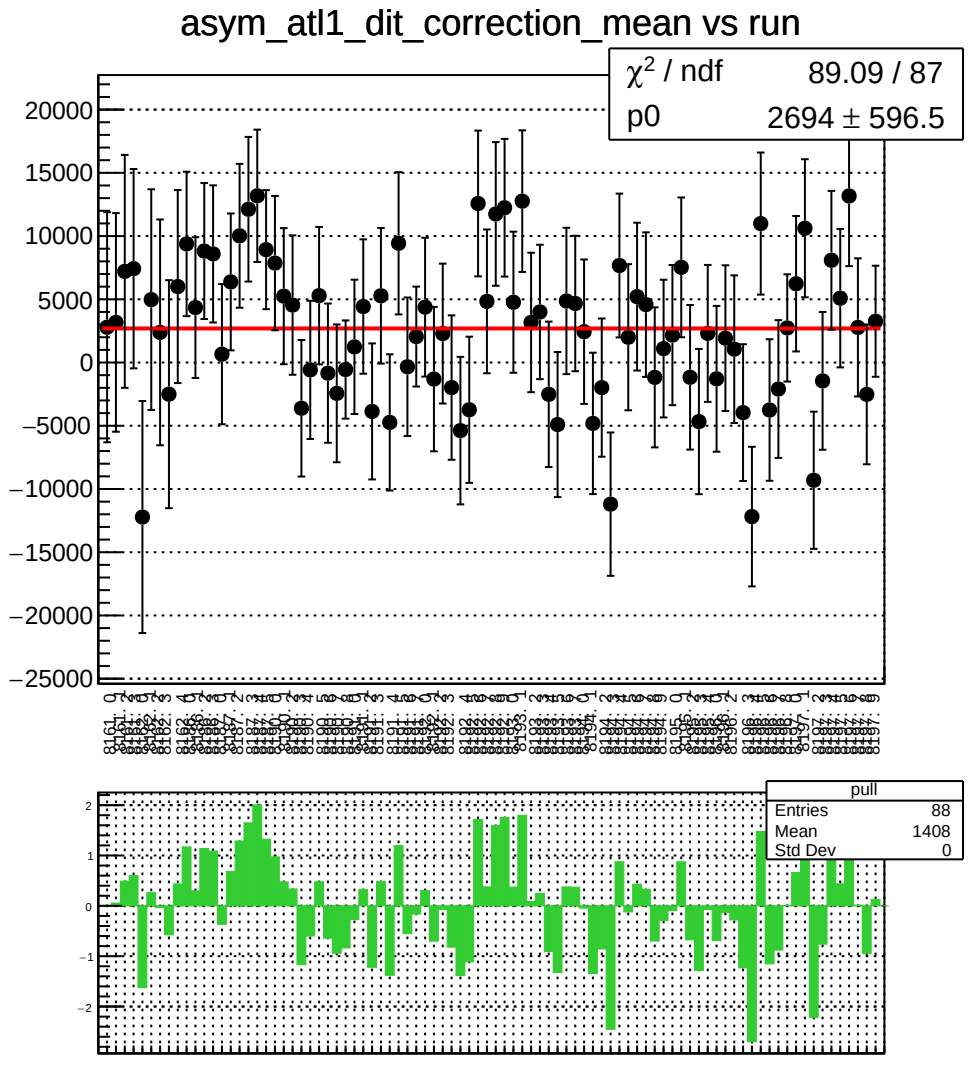

pull1D
Entries 88
Mean 0.02029
Std Dev 0.9854

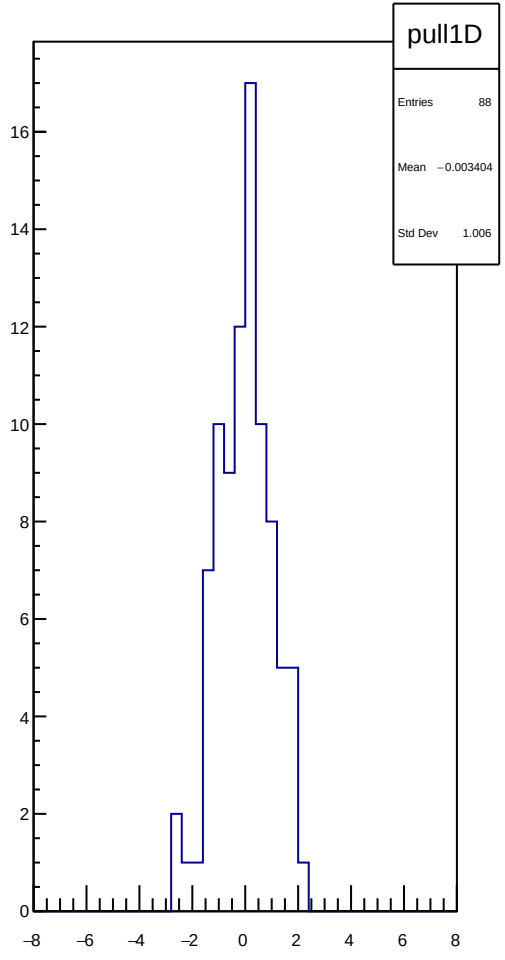

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 9.569e+04 / 87
p0 629.8 ± 0.5024
1000
900
800
700
600
500
400
300

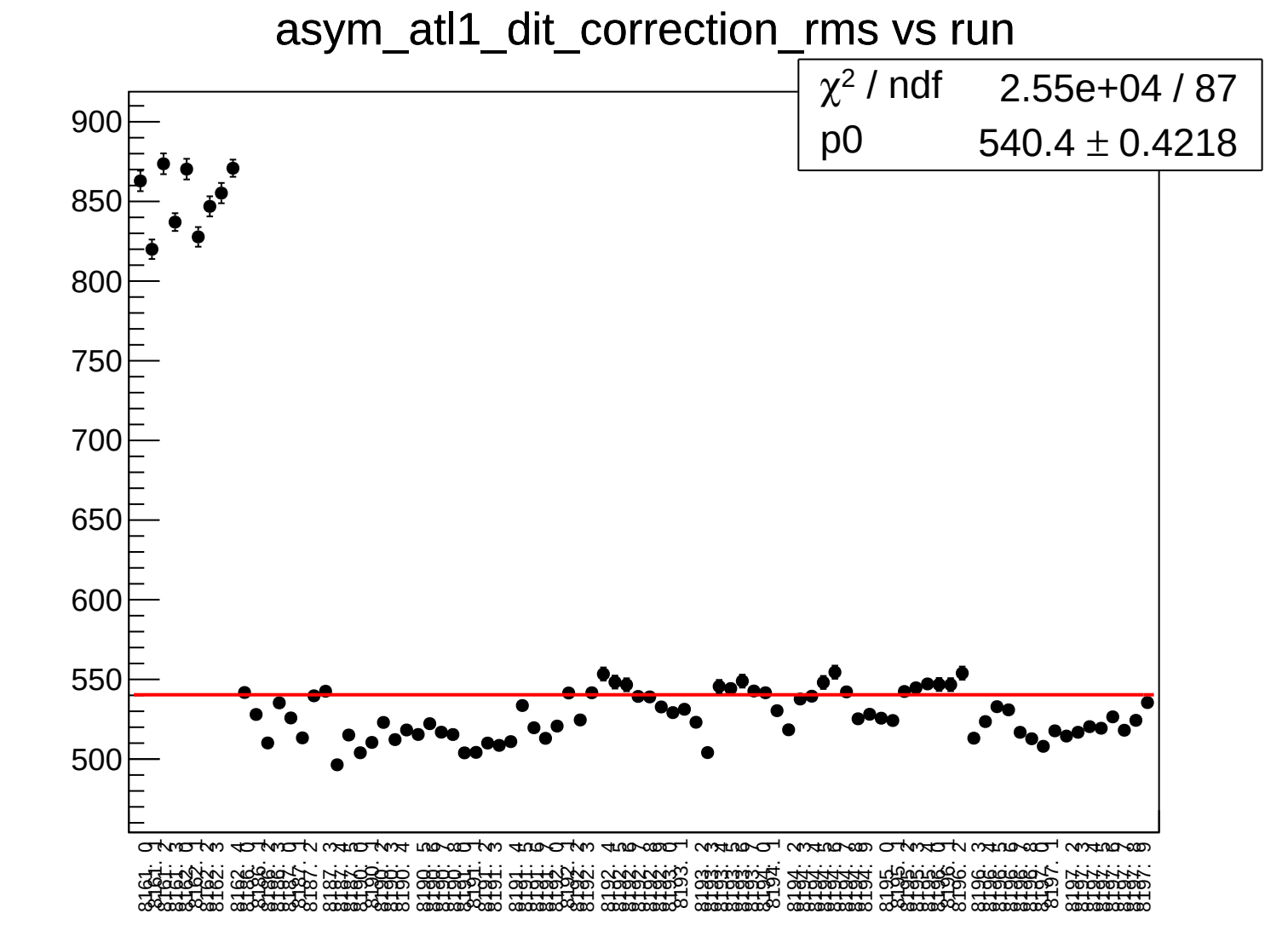

dit_asym_atl1_mean vs run
χ² / ndf 80.26 / 87
p0 2687 ± 2577
pull
Entries 88
Mean −636.3
Std Dev 0

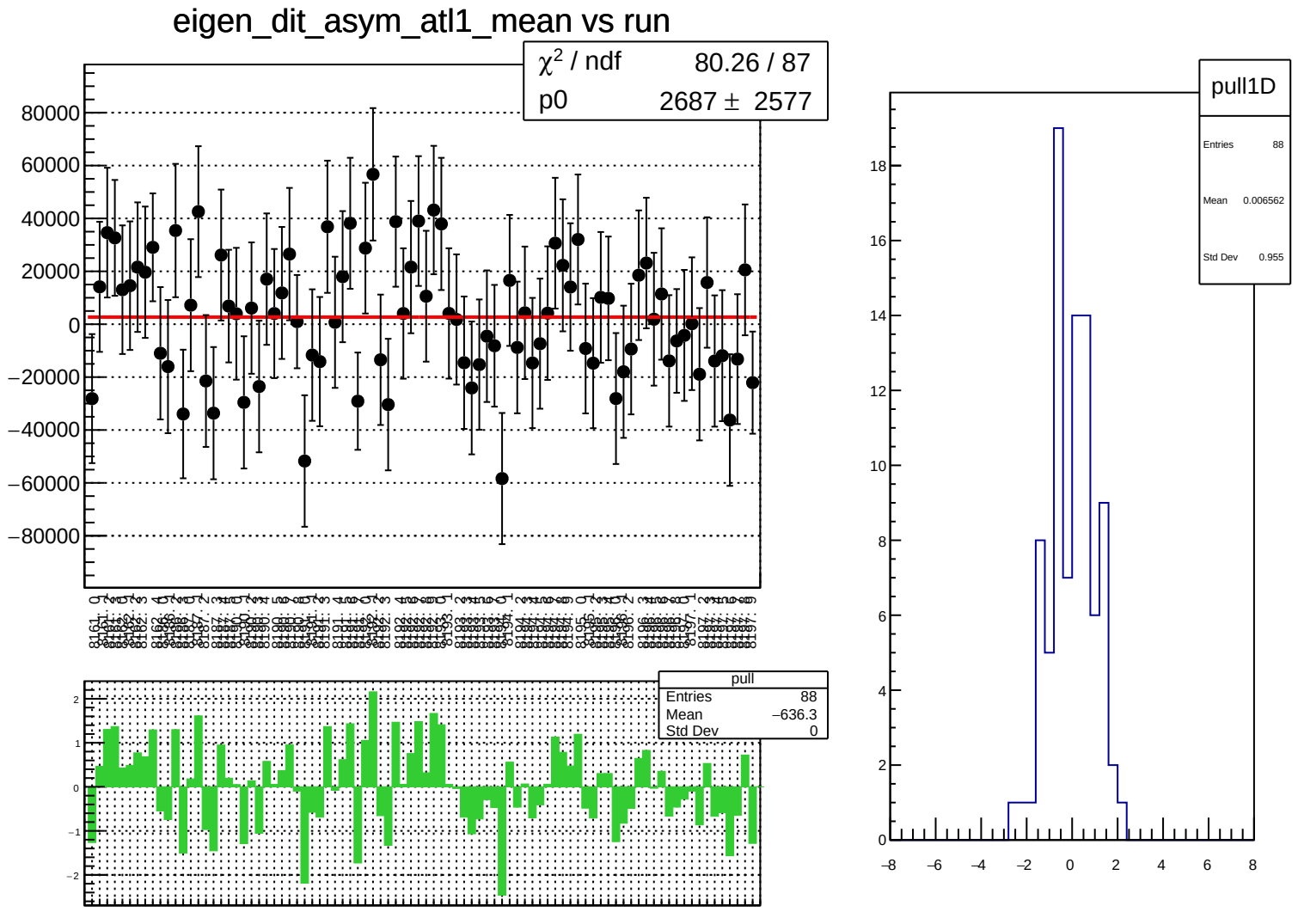

pull1D
Entries 88
Mean 0.006562
Std Dev 0.955

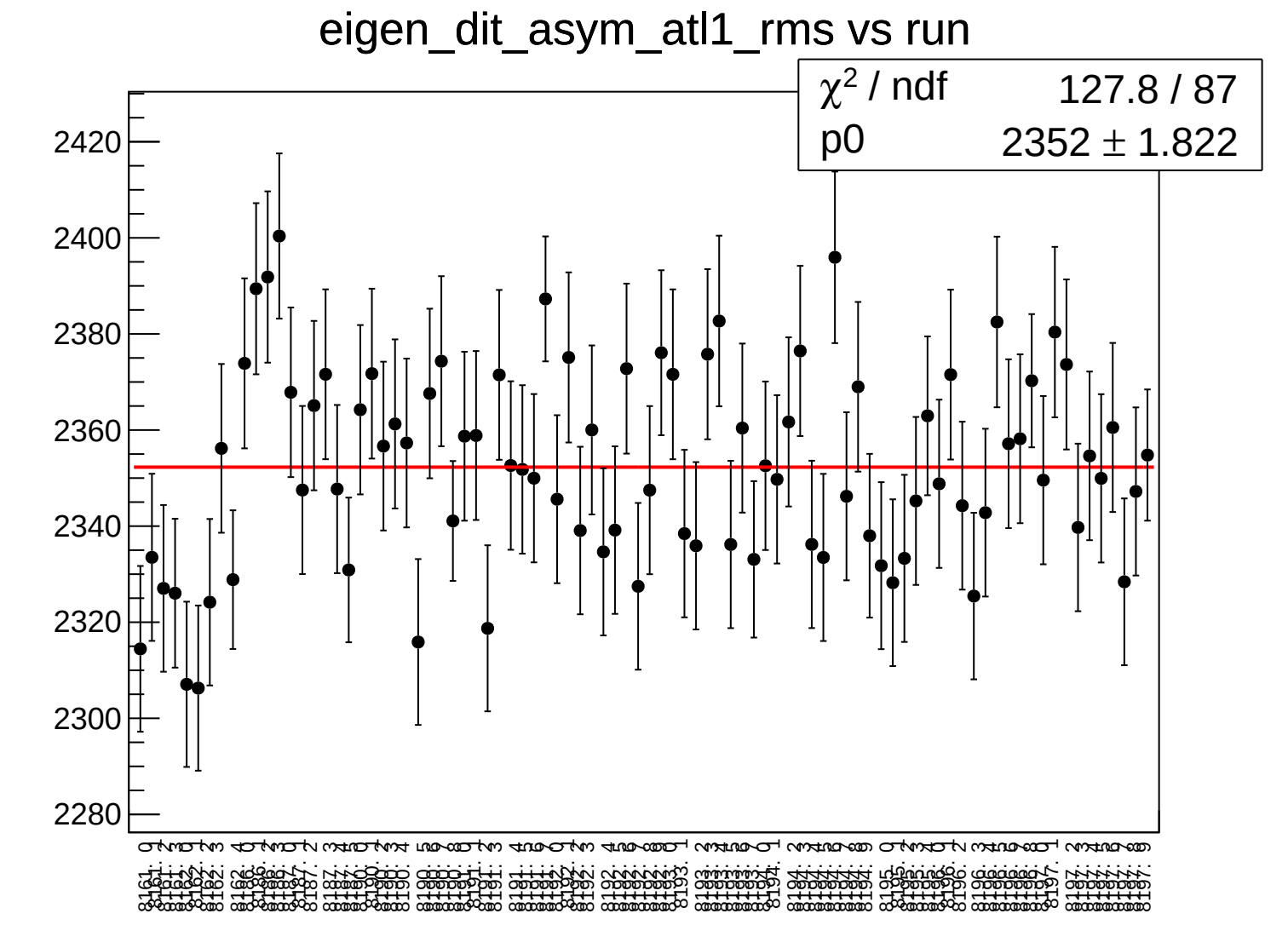

dit_asym_atl1_rms vs run
χ^2 / ndf 127.8 / 87
p0 2352 ± 1.822
2420
2400
2380
2360
2340
2320
2300
2280

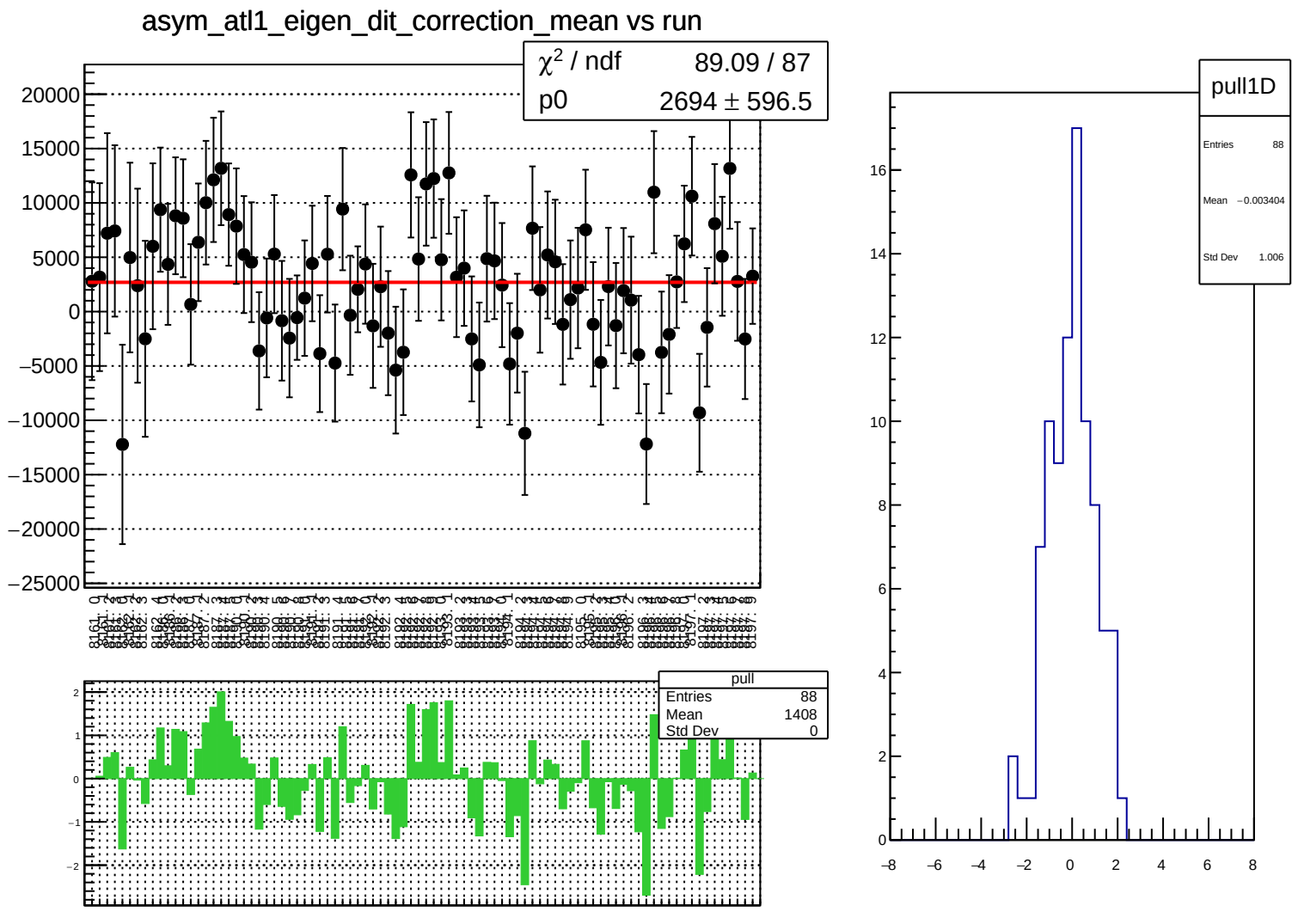

asym_atl1_dit_correction_mean vs run
χ² / ndf 89.09 / 87
p0 2694 ± 596.5
pull
Entries 88
Mean 1408
Std Dev 0

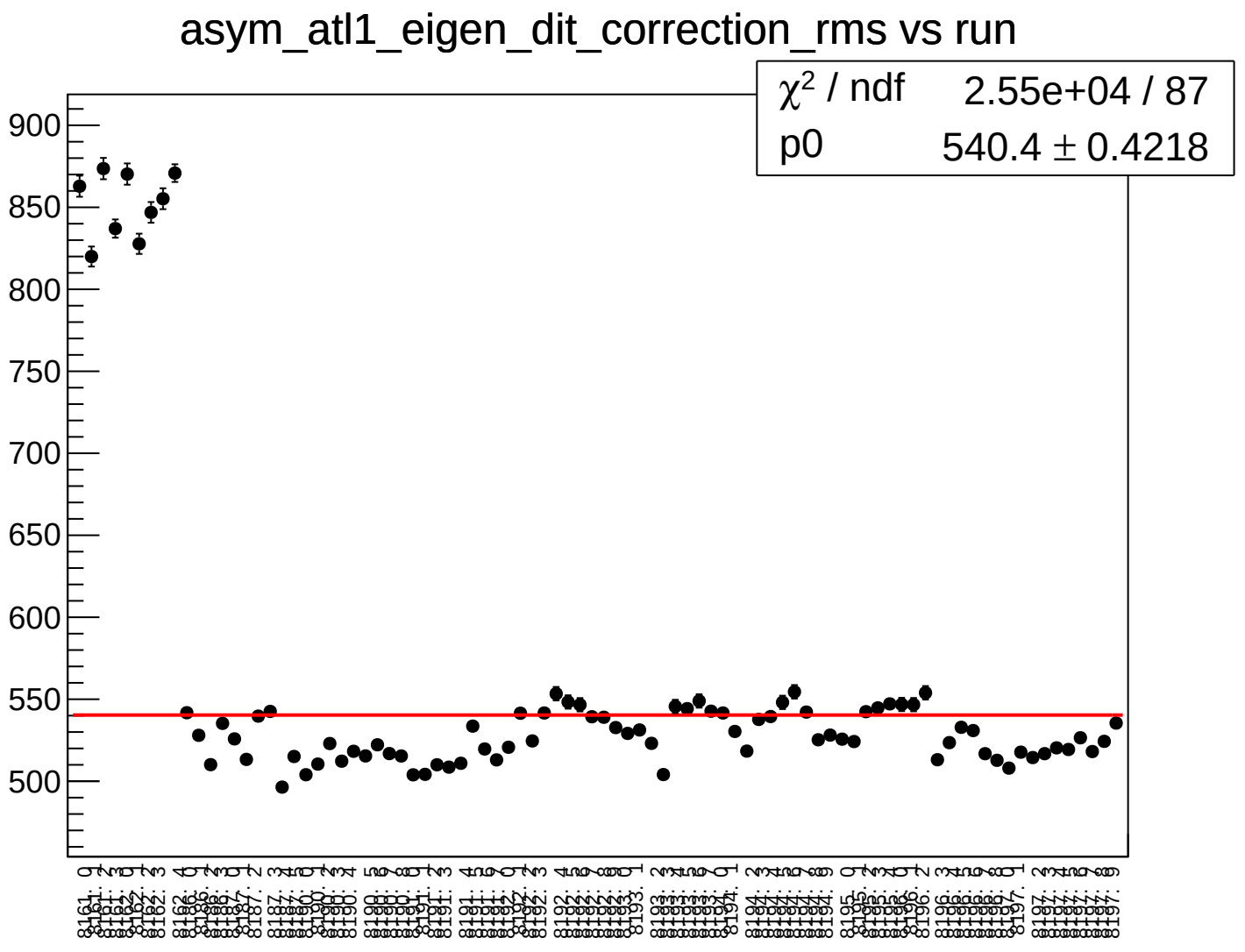

pull1D
Entries 88
Mean −0.003404
Std Dev 1.006

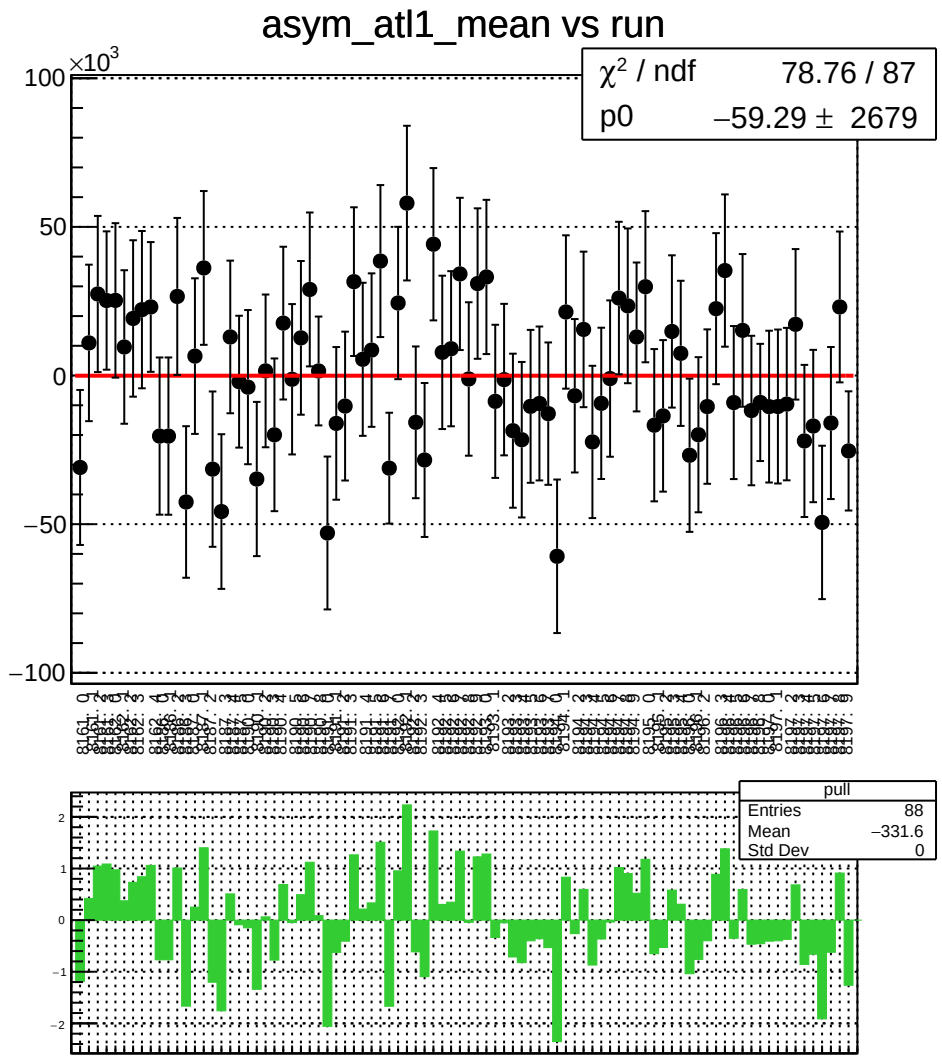

asym_atl1_dit_correction_rms vs run
χ² / ndf 2.55e+04 / 87
p0 540.4 ± 0.4218
900
850
800
750
700
650
600
550
500

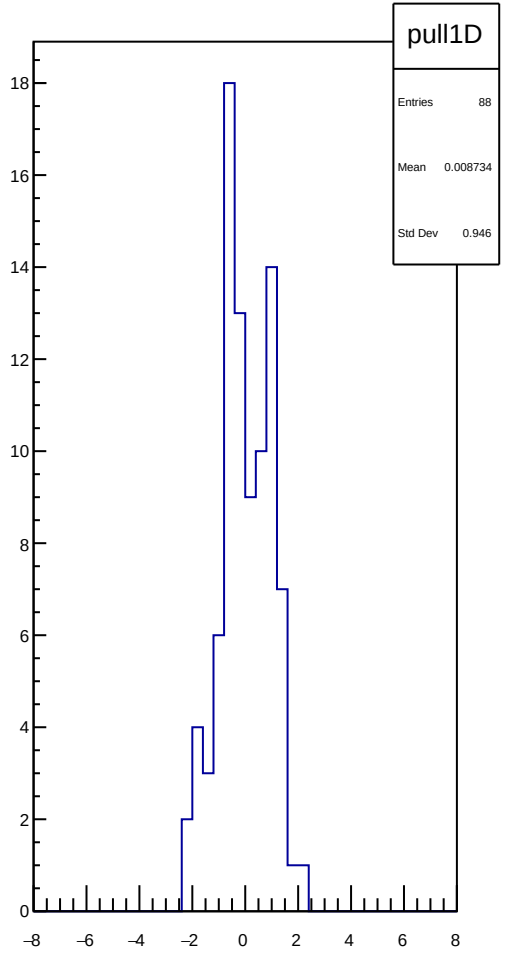

eigen_dit_asym_atl1_mean vs run
χ² / ndf 80.26 / 87
p0 2687 ± 2577
pull
Entries 88
Mean −636.3
Std Dev 0
pull1D
Entries 88
Mean 0.006562
Std Dev 0.955

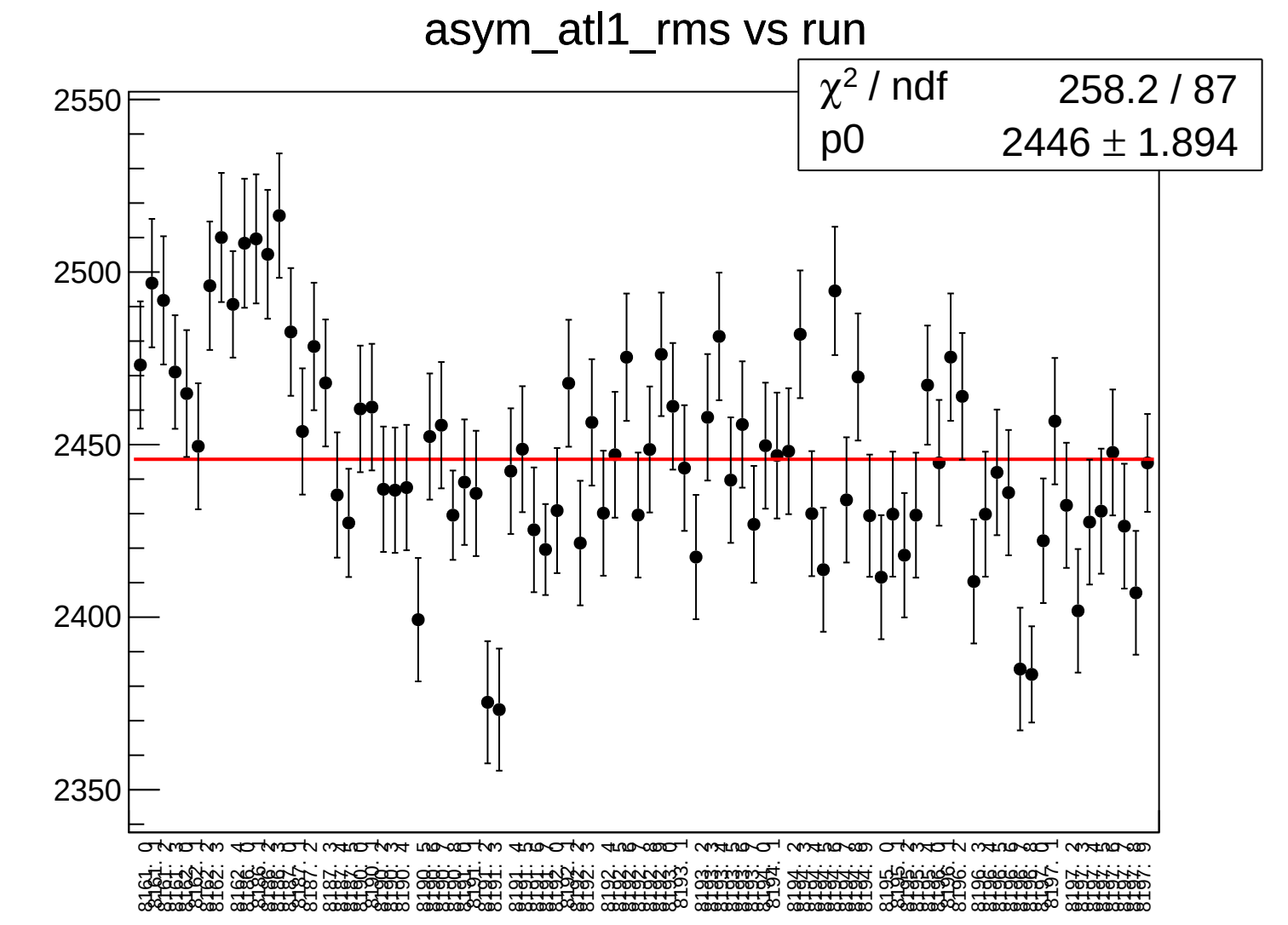

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 127.8 / 87
p0 2352 ± 1.822
2420
2400
2380
2360
2340
2320
2300
2280

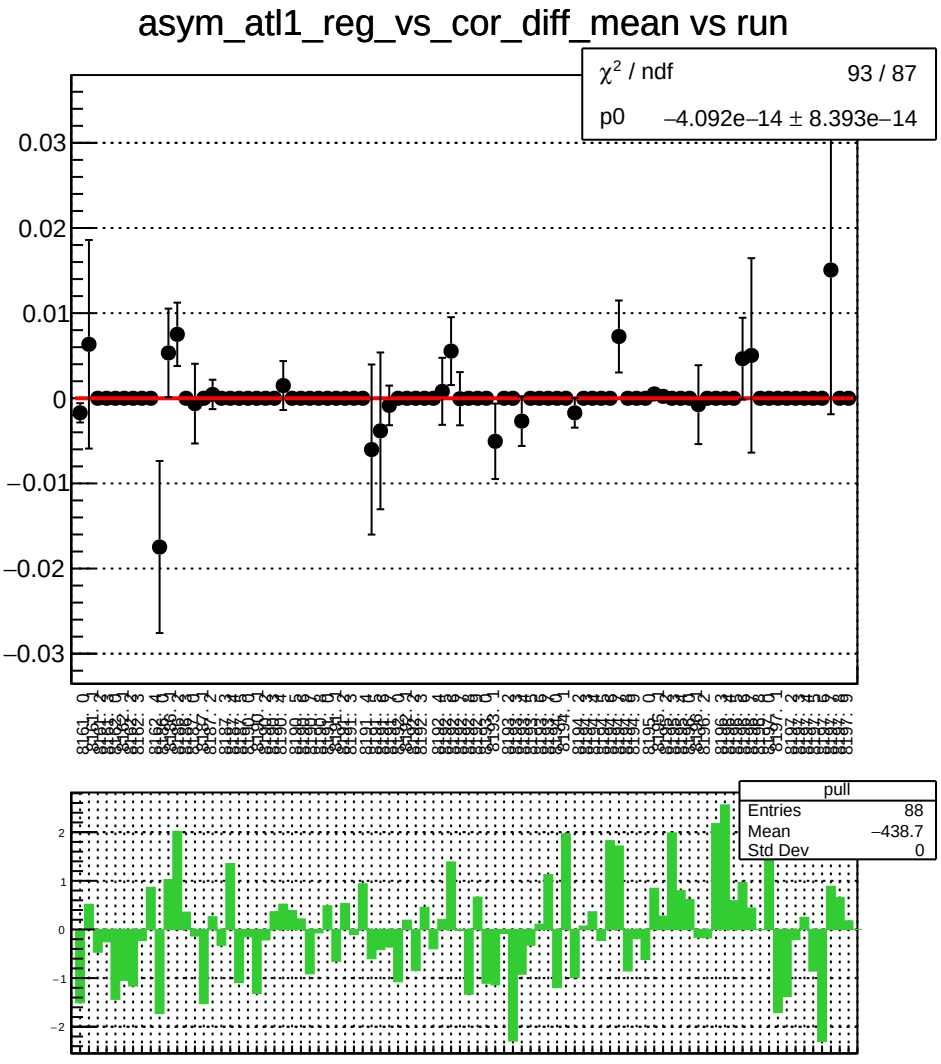

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 89.09 / 87
p0 2694 ± 596.5
pull
Entries 88
Mean 1408
Std Dev 0
pull1D
Entries 88
Mean −0.003404
Std Dev 1.006

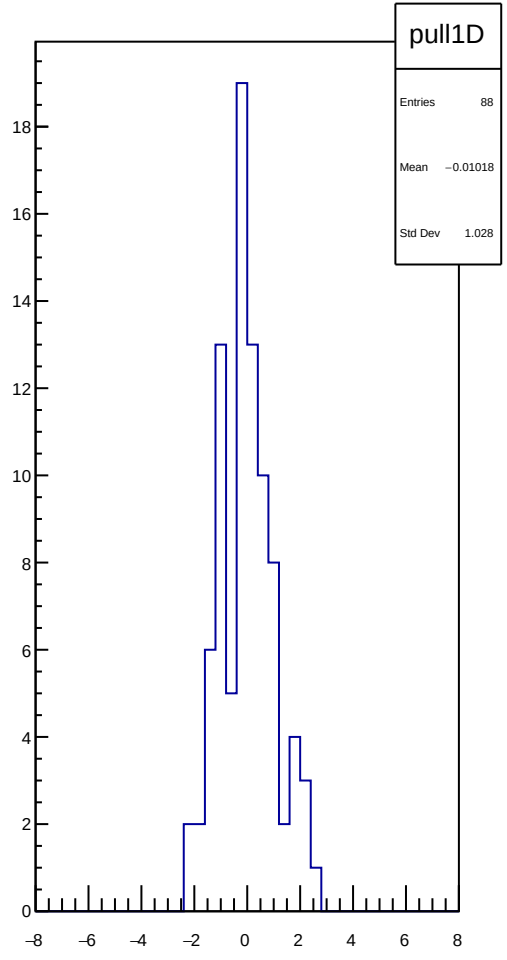

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2.55e+04 / 87
p0 540.4 ± 0.4218
900
850
800
750
700
650
600
550
500

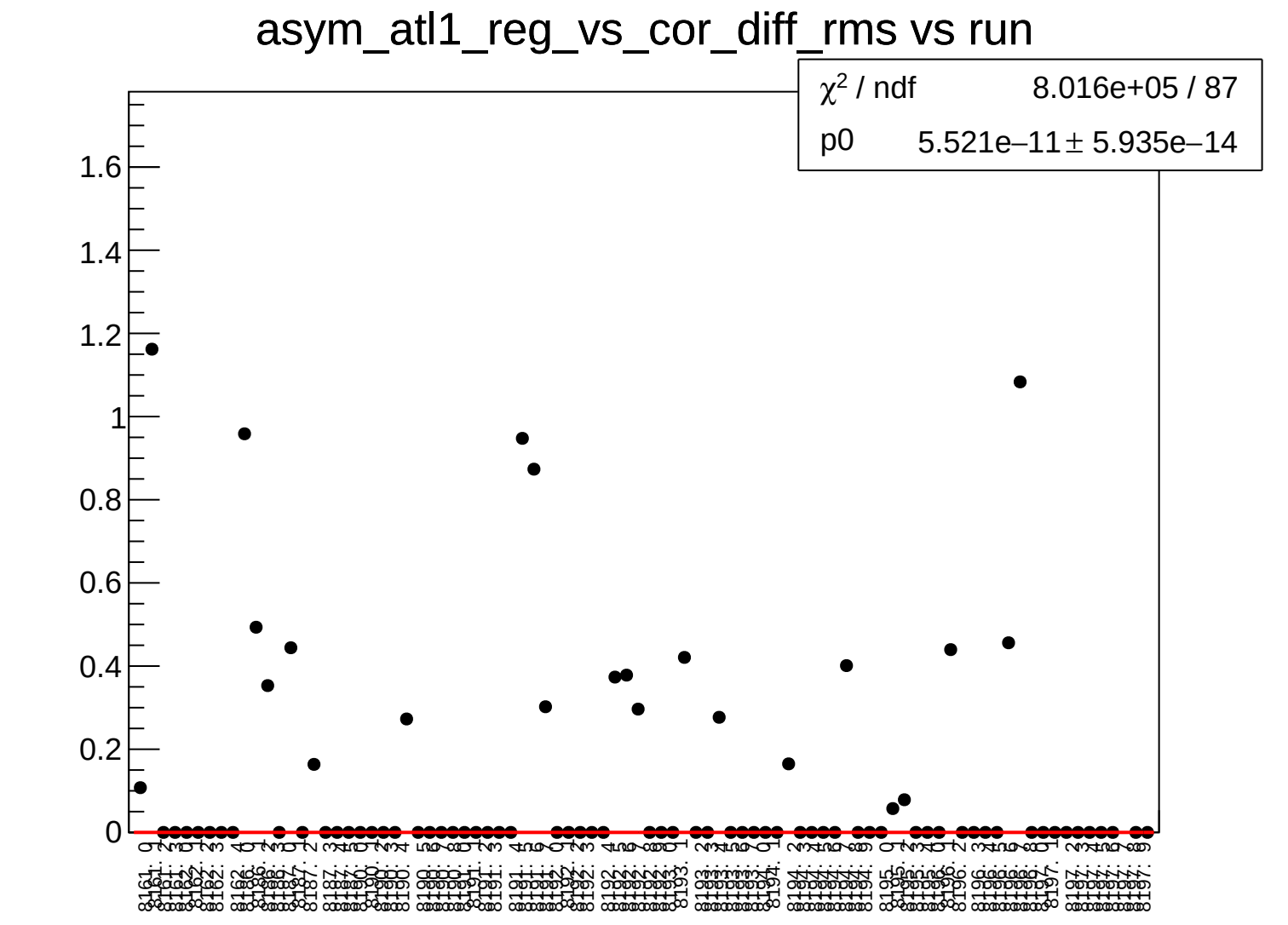

asym_atl1_mean vs run
χ^2 / ndf 78.76 / 87
p0 −59.29 ± 2679
×10^3
100
50
0
−50
−100
pull
Entries 88
Mean −331.6
Std Dev 0
2
1
0
−1
−2

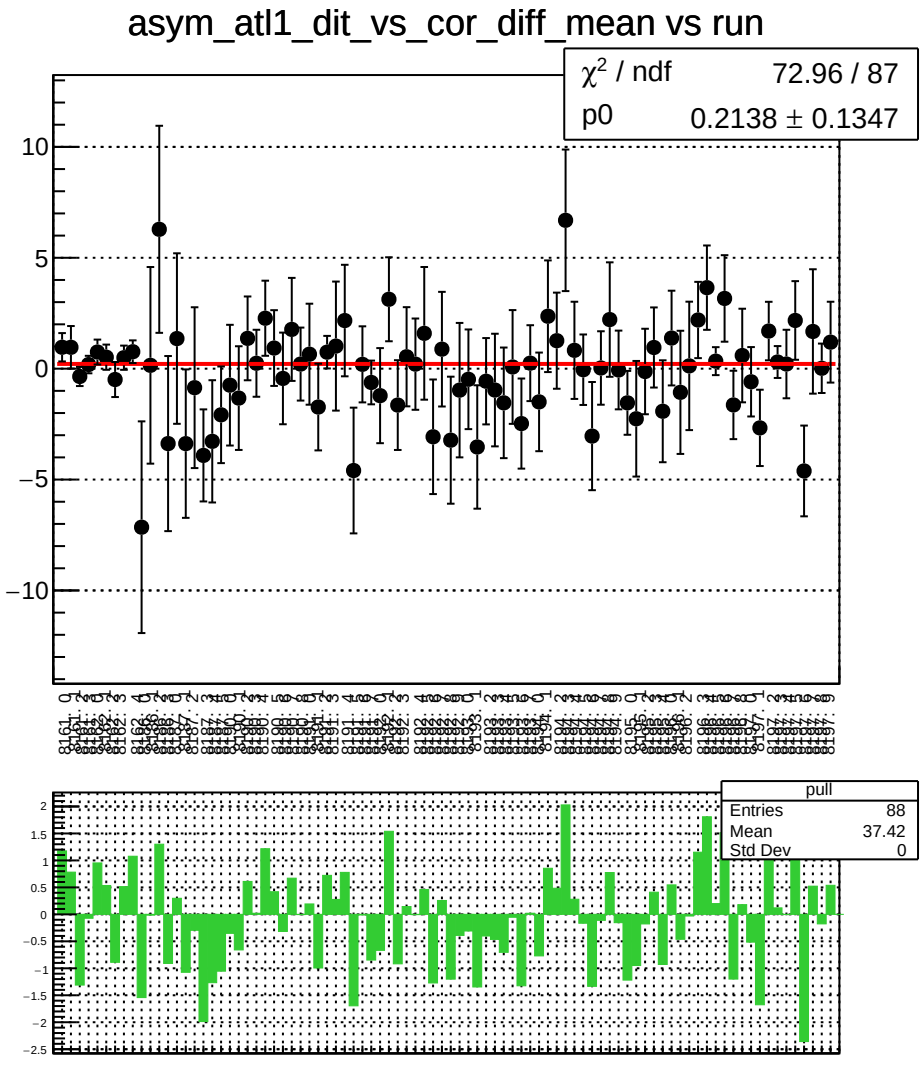

pull1D
Entries 88
Mean 0.008734
Std Dev 0.946
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

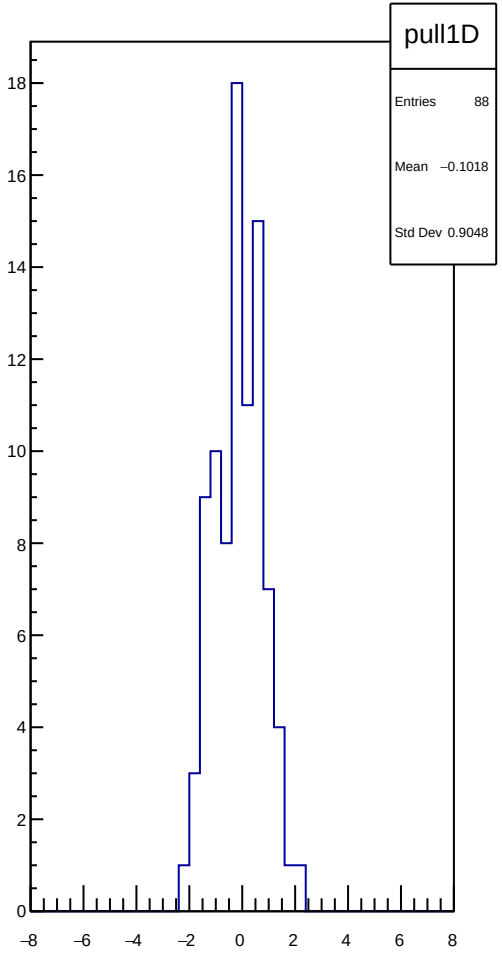

asym_atl1_rms vs run
χ² / ndf 258.2 / 87
p0 2446 ± 1.894
2550
2500
2450
2400
2350

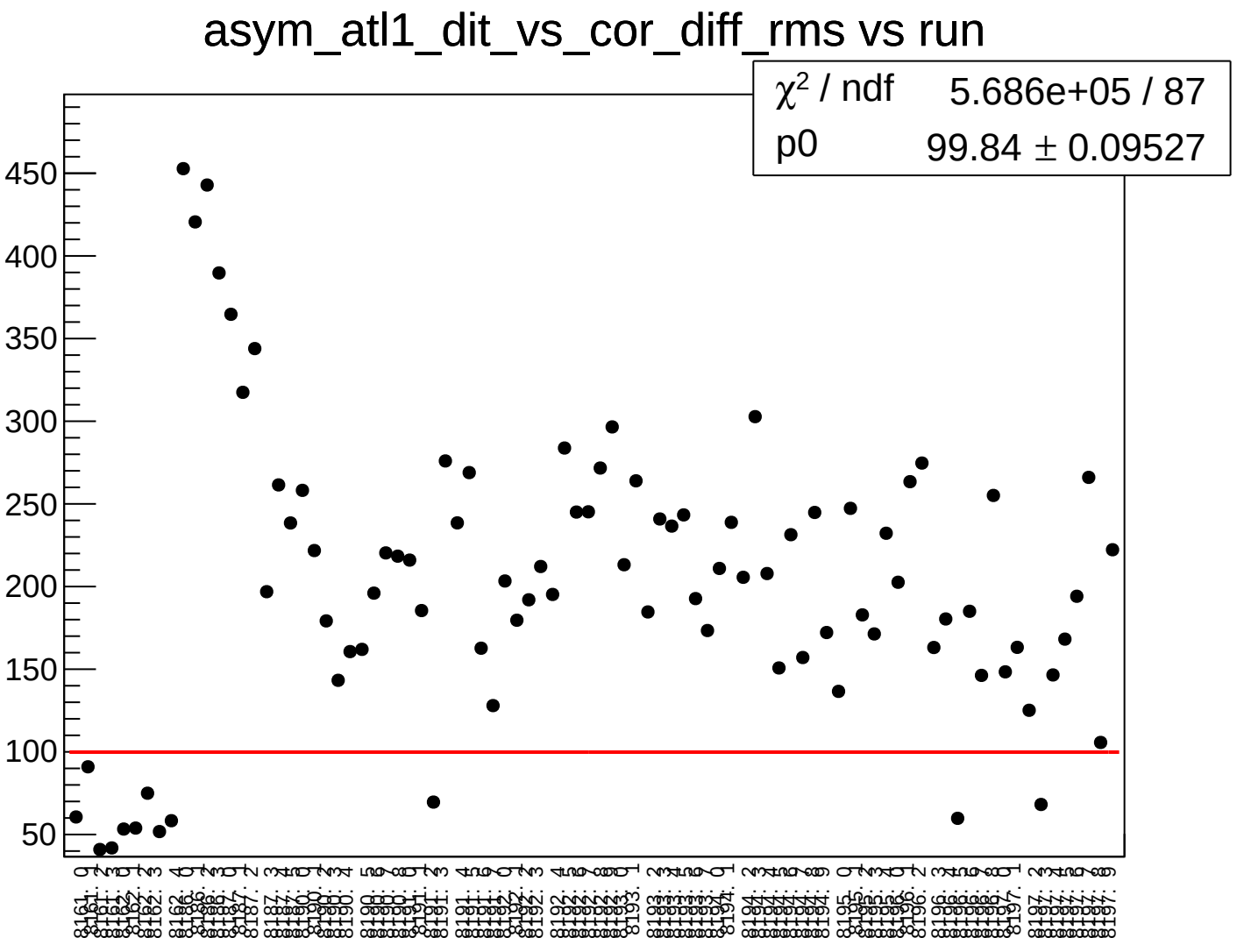

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 93 / 87
p0 −4.092e−14 ± 8.393e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −438.7
Std Dev 0
2
1
0
−1
−2

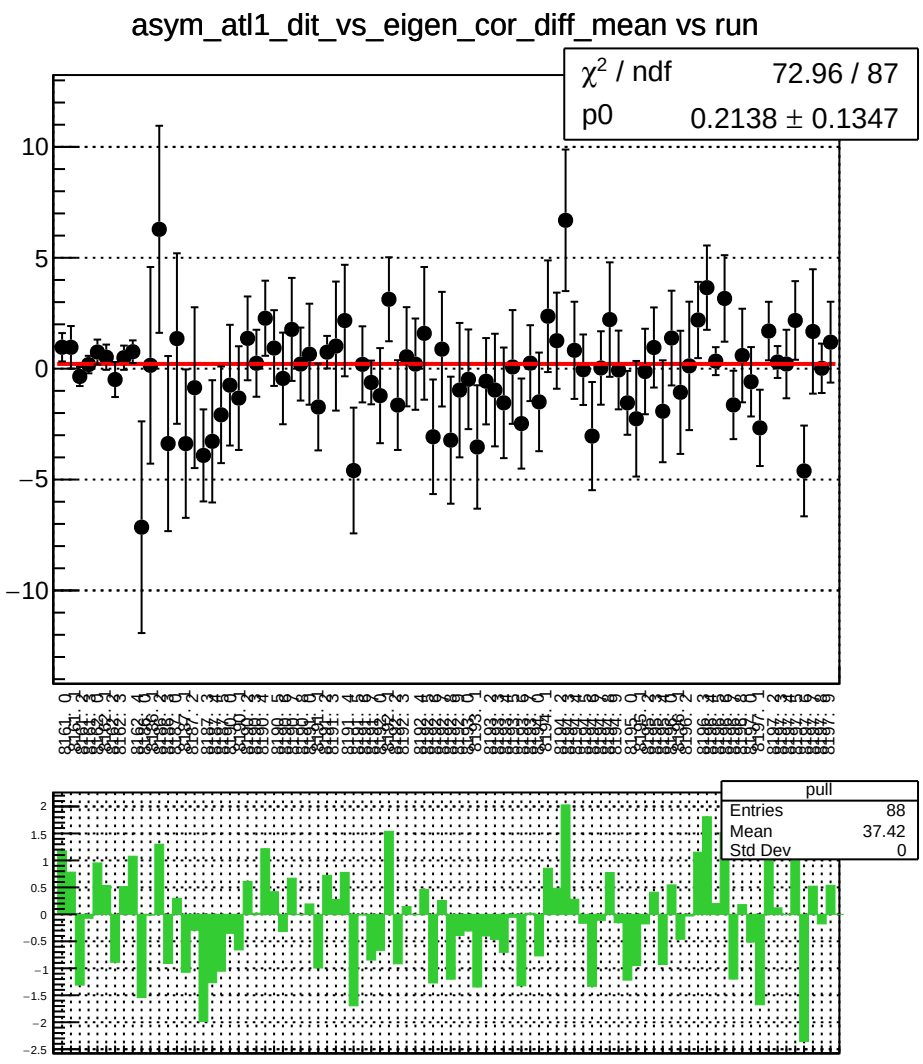

pull1D
Entries 88
Mean −0.01018
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

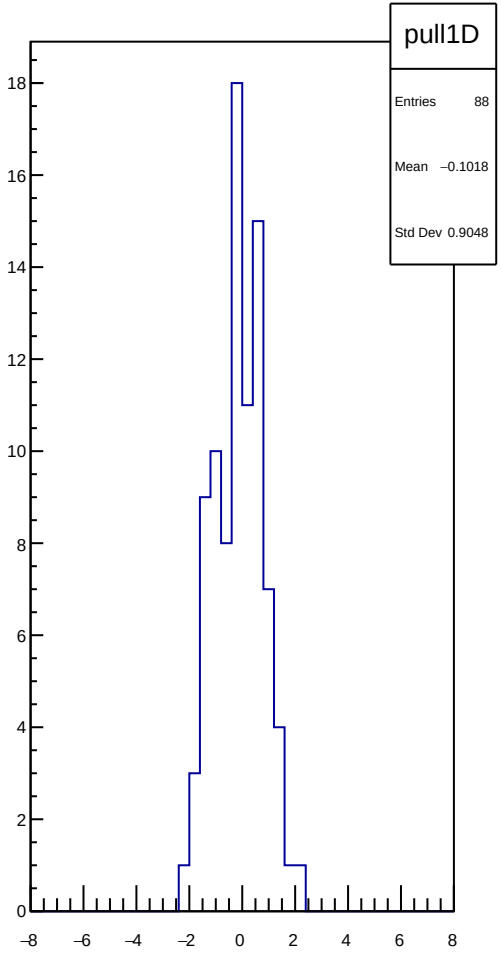

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.016e+05 / 87
p0 5.521e−11 ± 5.935e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

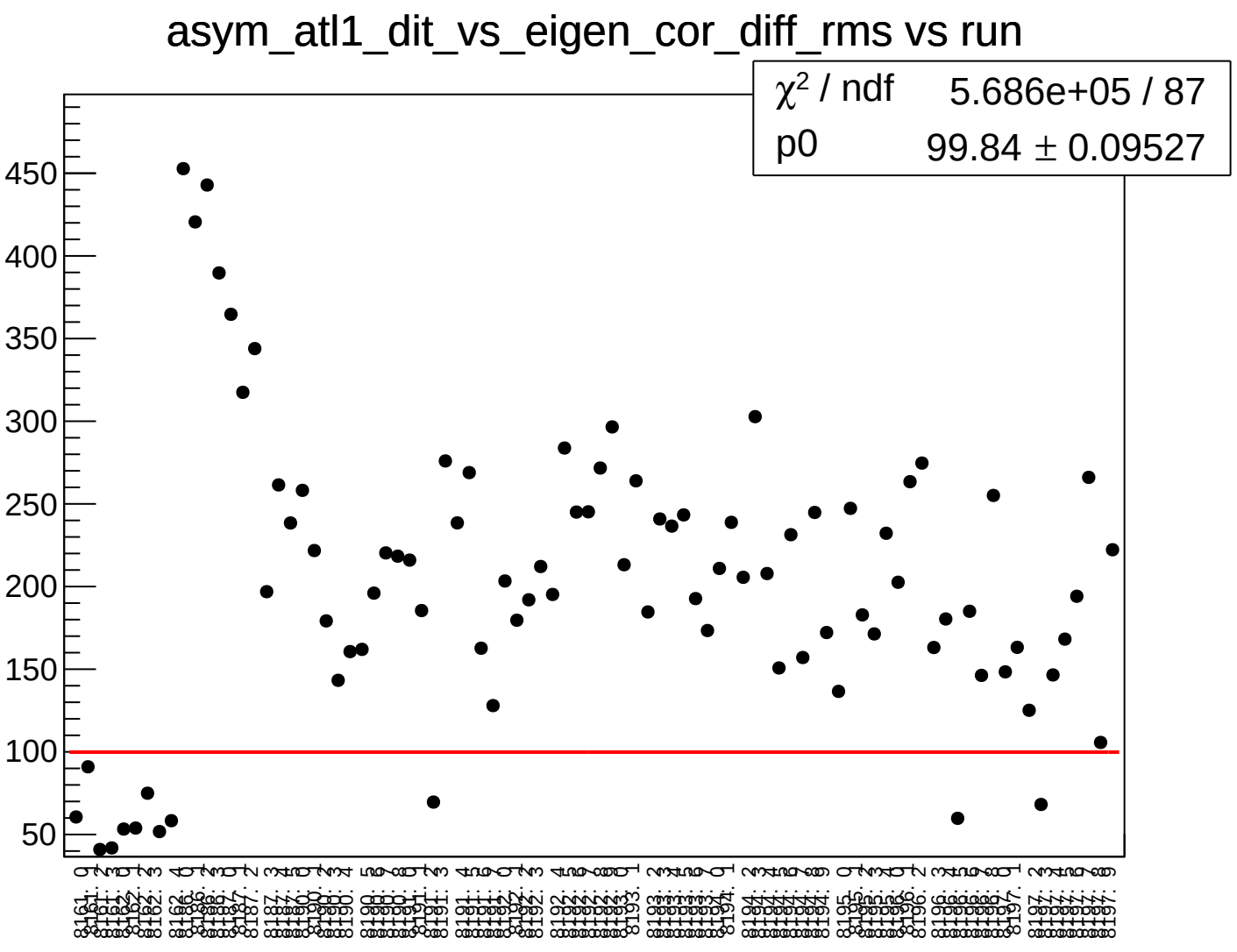

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 72.96 / 87
p0 0.2138 ± 0.1347
pull
Entries 88
Mean 37.42
Std Dev 0

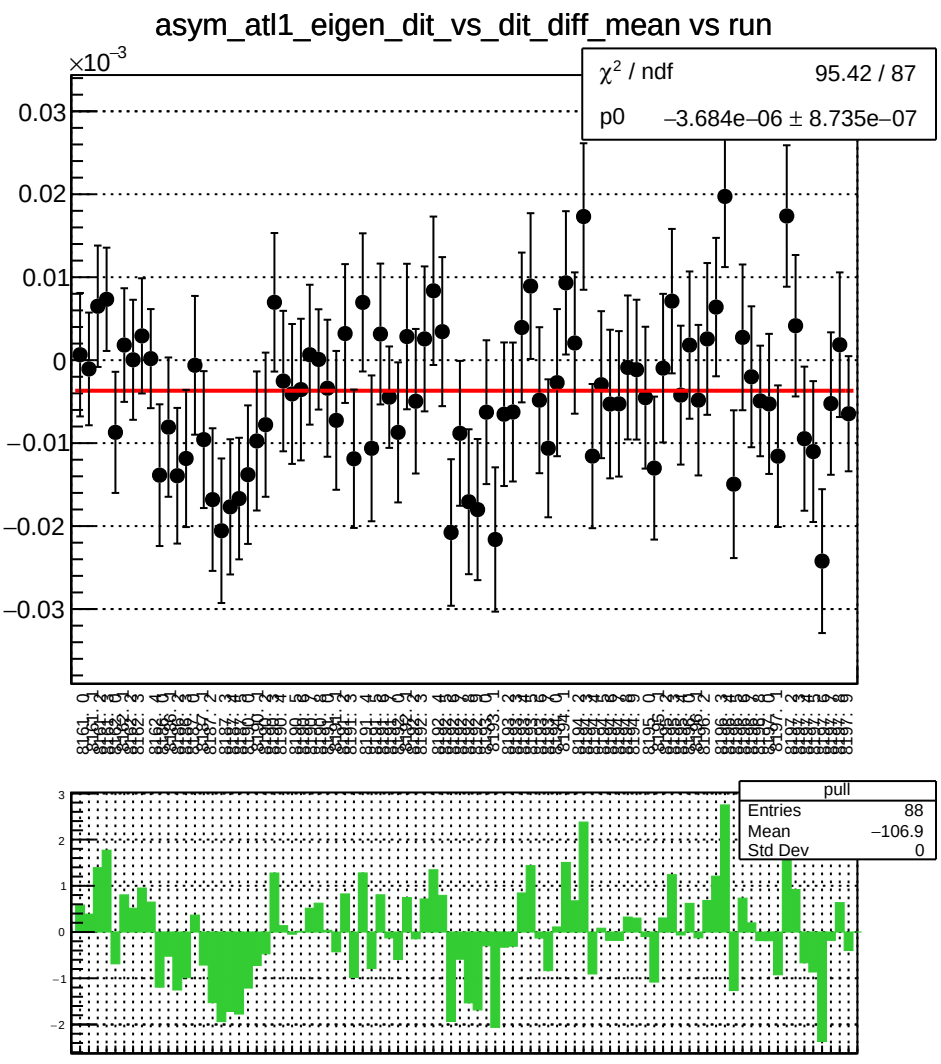

pull1D
Entries 88
Mean −0.1018
Std Dev 0.9048

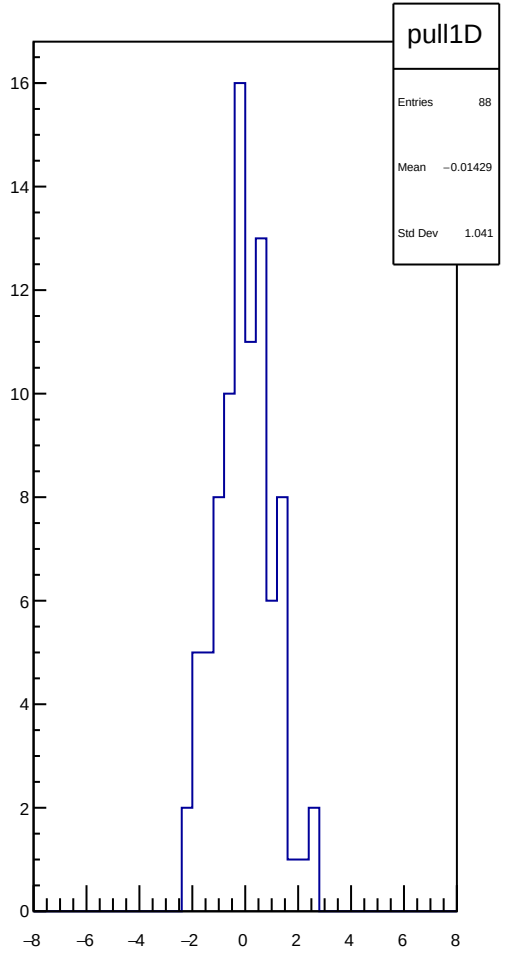

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 5.686e+05 / 87
p0 99.84 ± 0.09527
450
400
350
300
250
200
150
100
50

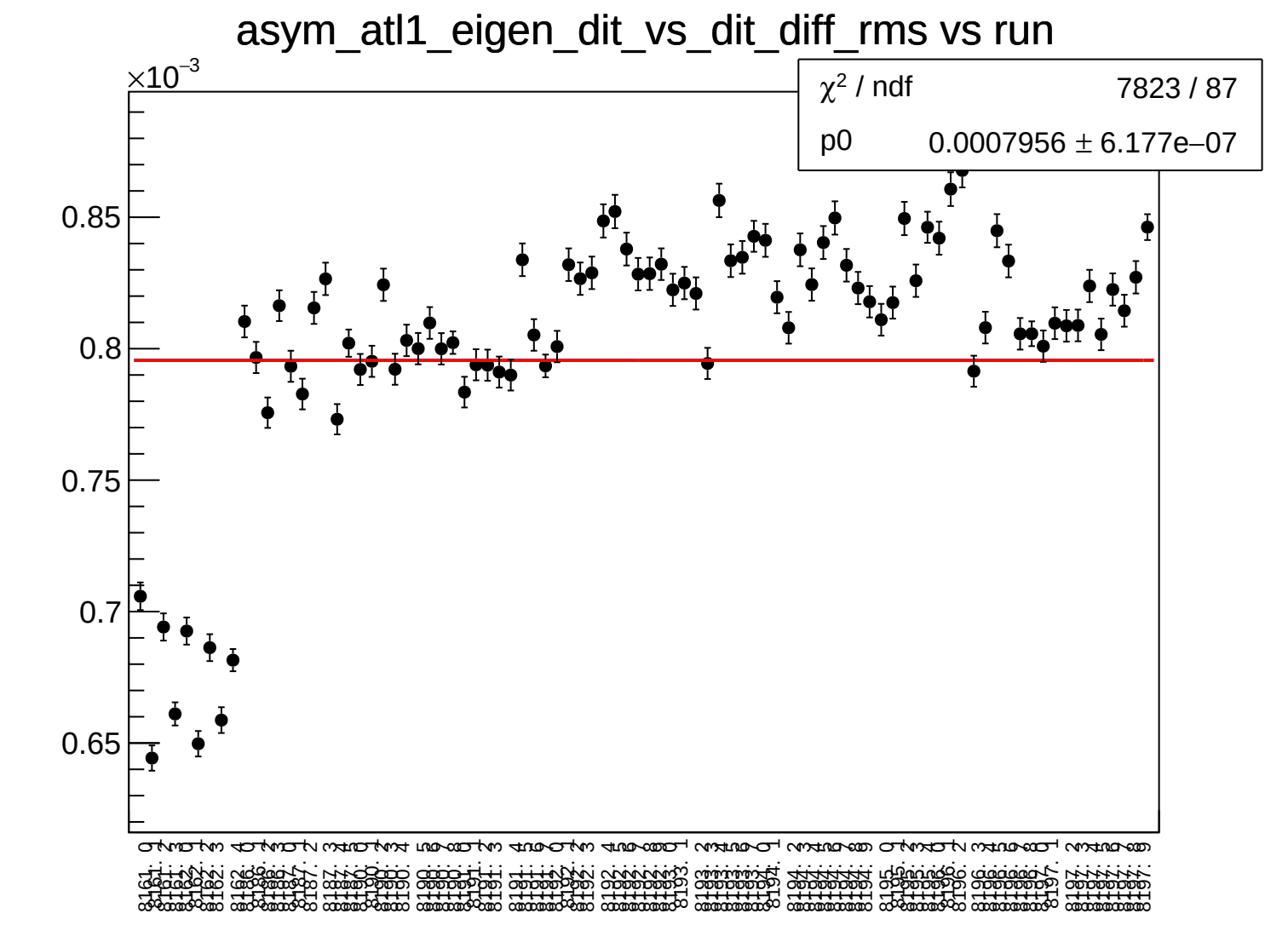

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.96 / 87
p0 0.2138 ± 0.1347
pull
Entries 88
Mean 37.42
Std Dev 0

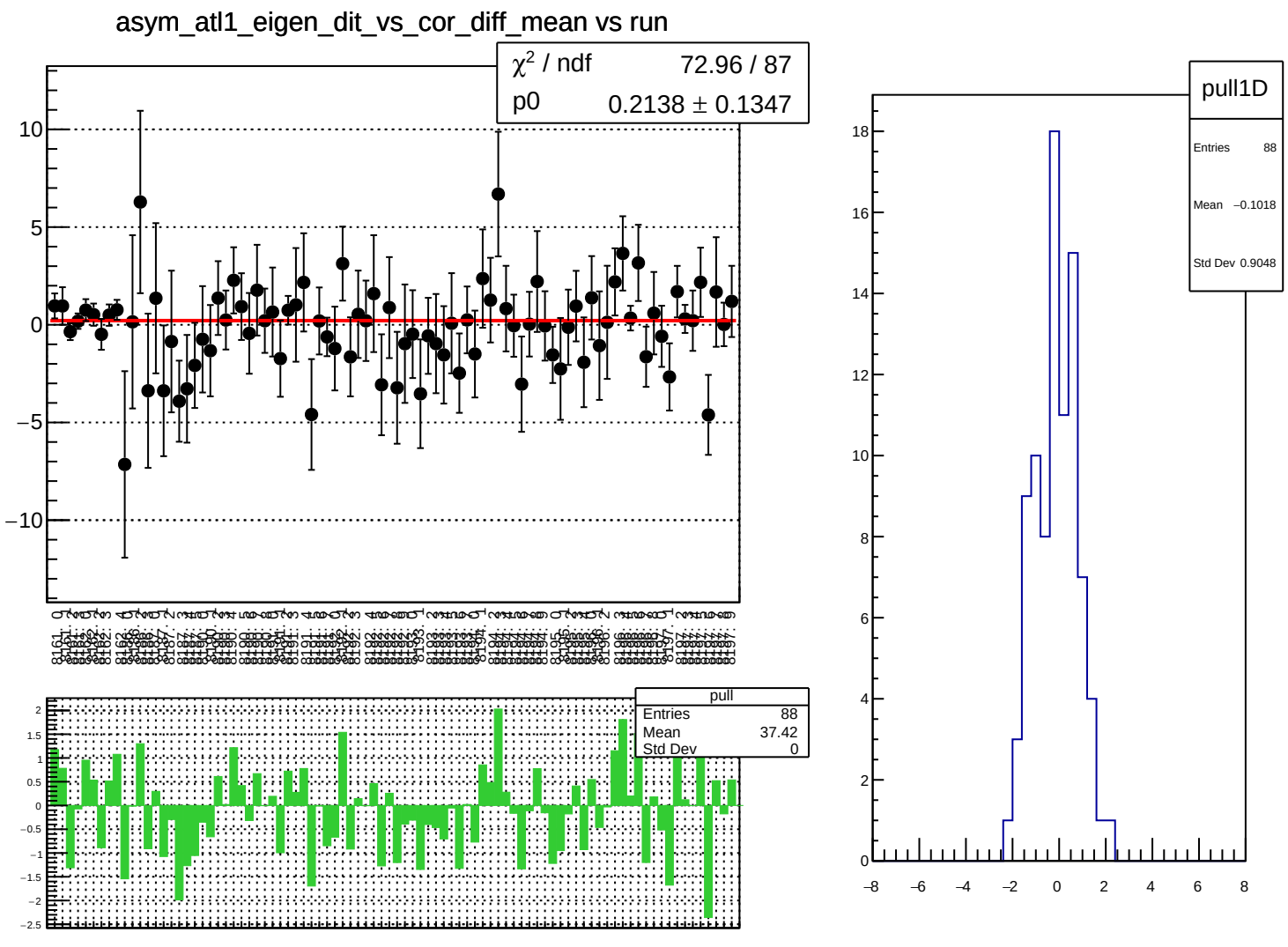

pull1D
Entries 88
Mean −0.1018
Std Dev 0.9048

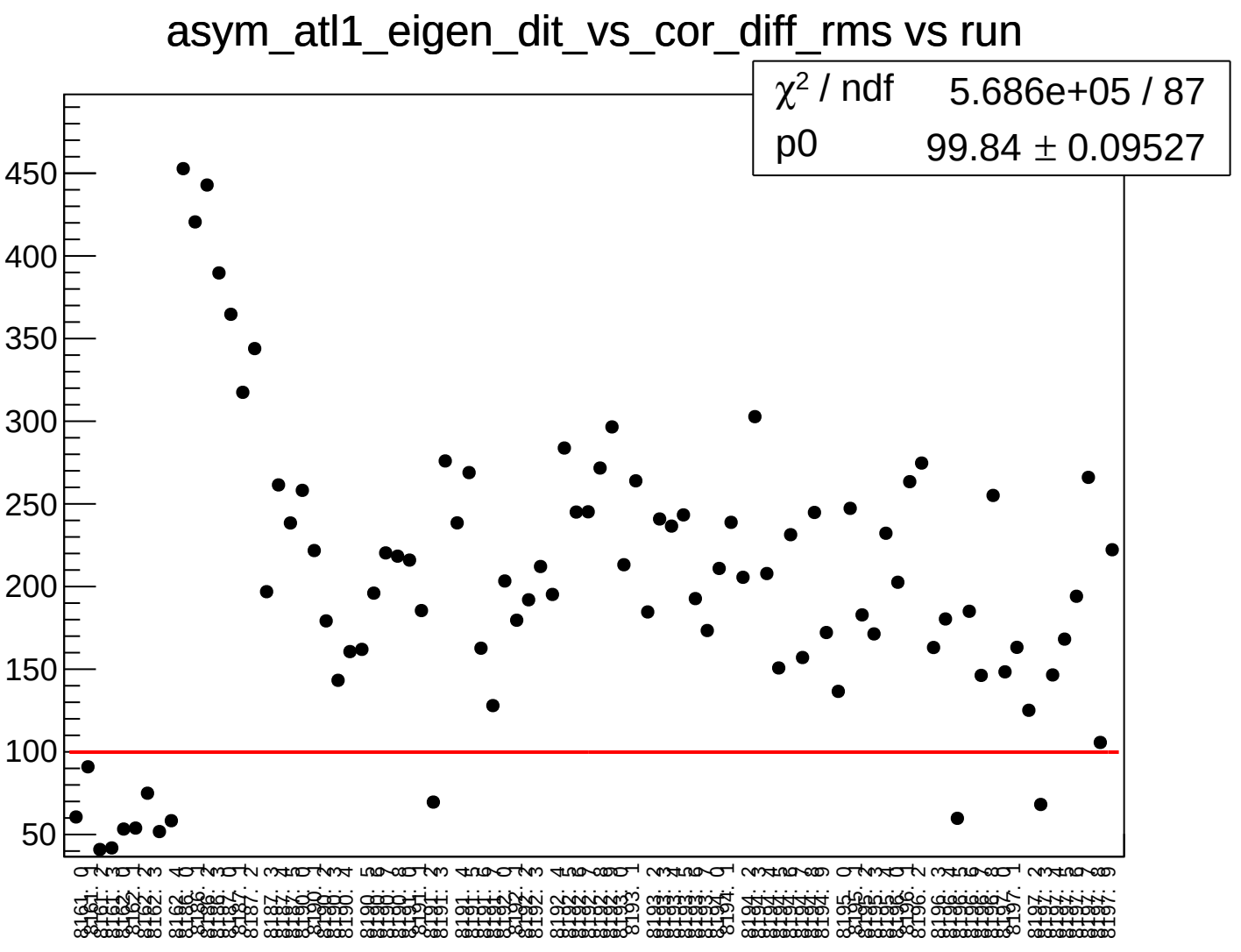

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.686e+05 / 87
p0 99.84 ± 0.09527
450
400
350
300
250
200
150
100
50

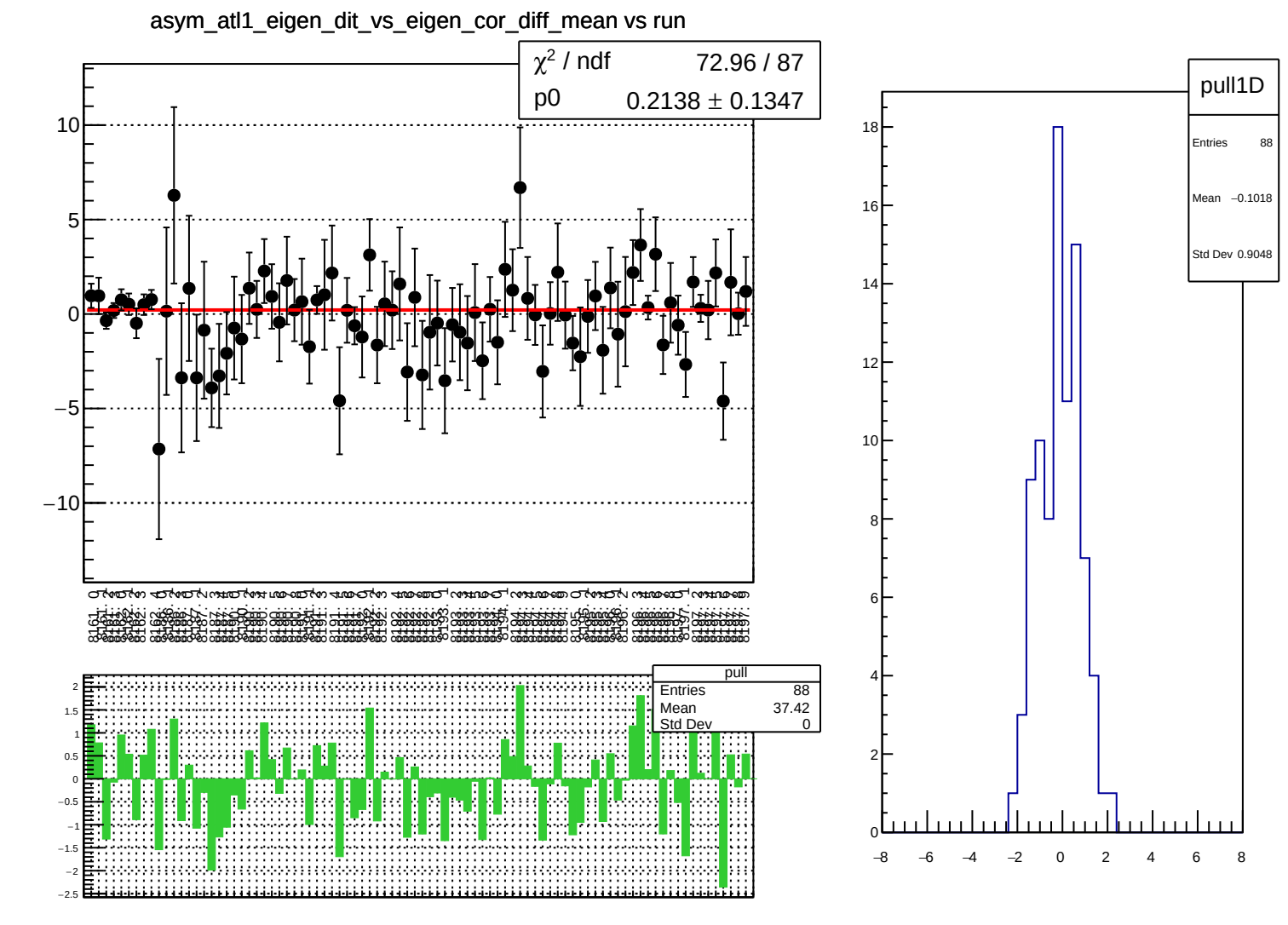

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.42 / 87
p0 −3.684e−06 ± 8.735e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −106.9
Std Dev 0
3
2
1
0
−1
−2

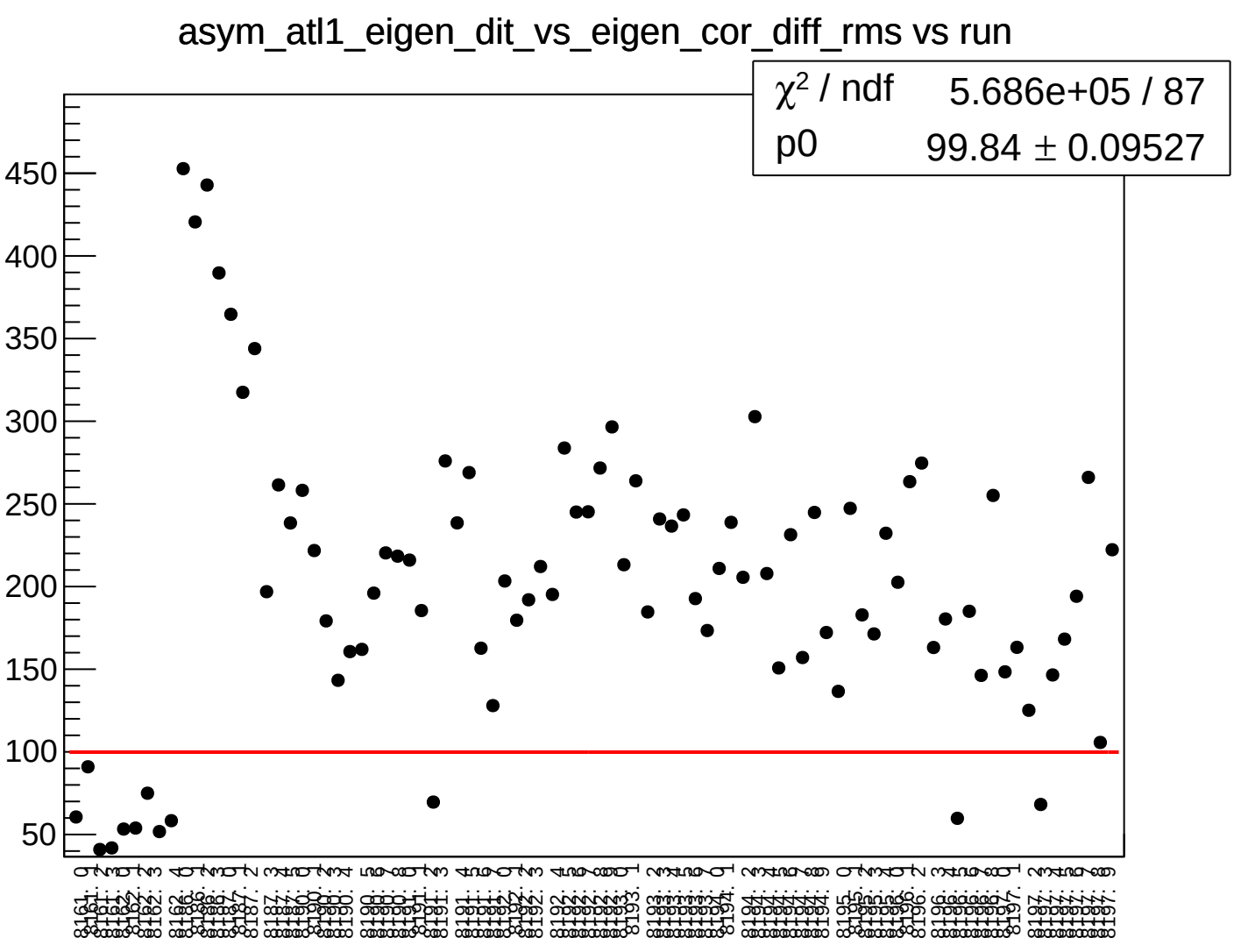

pull1D
Entries 88
Mean −0.01429
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

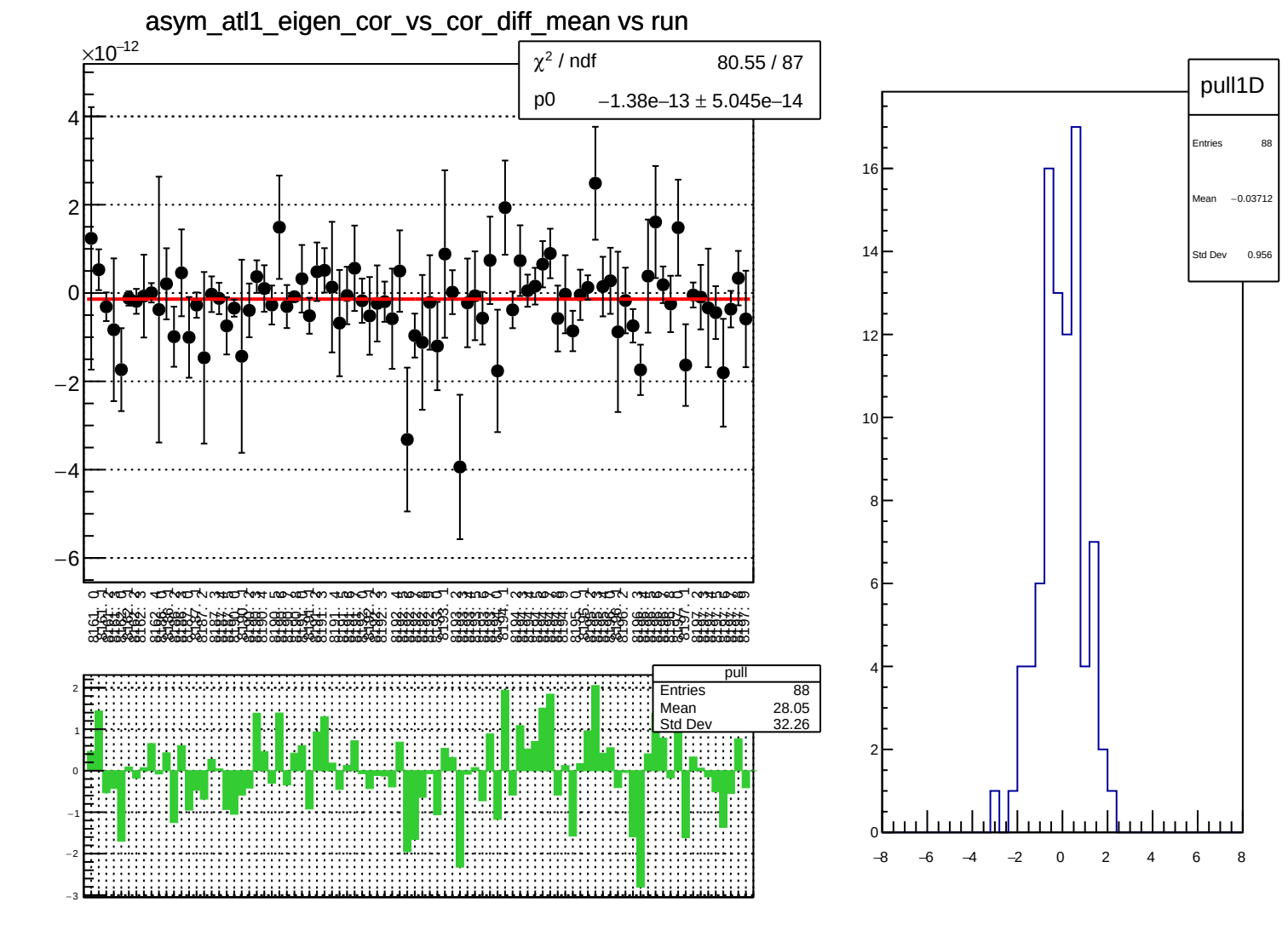

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 7823 / 87
p0 0.0007956 ± 6.177e−07
0.85
0.8
0.75
0.7
0.65

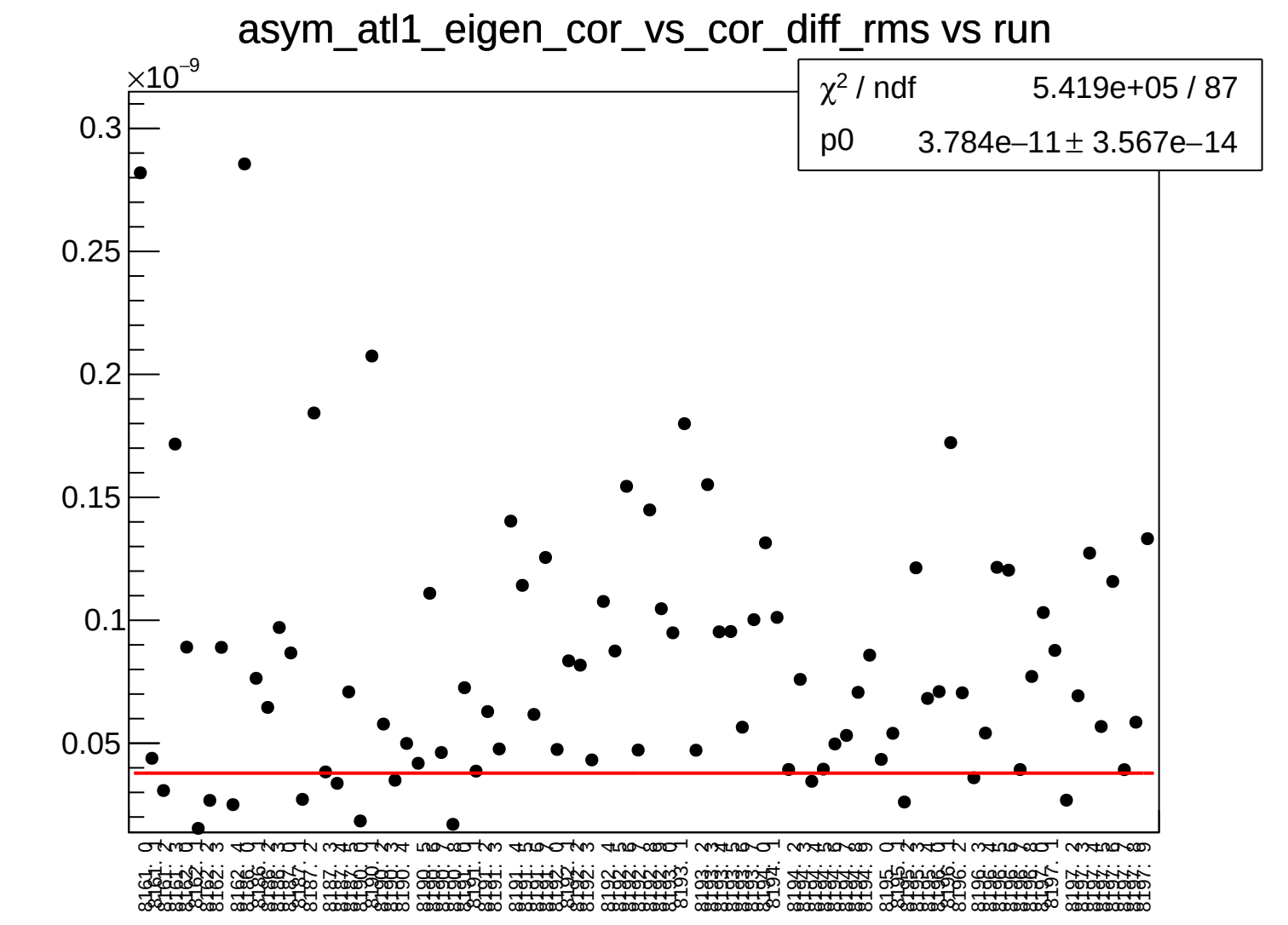

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.96 / 87
p0 0.2138 ± 0.1347
pull
Entries 88
Mean 37.42
Std Dev 0
pull1D
Entries 88
Mean −0.1018
Std Dev 0.9048

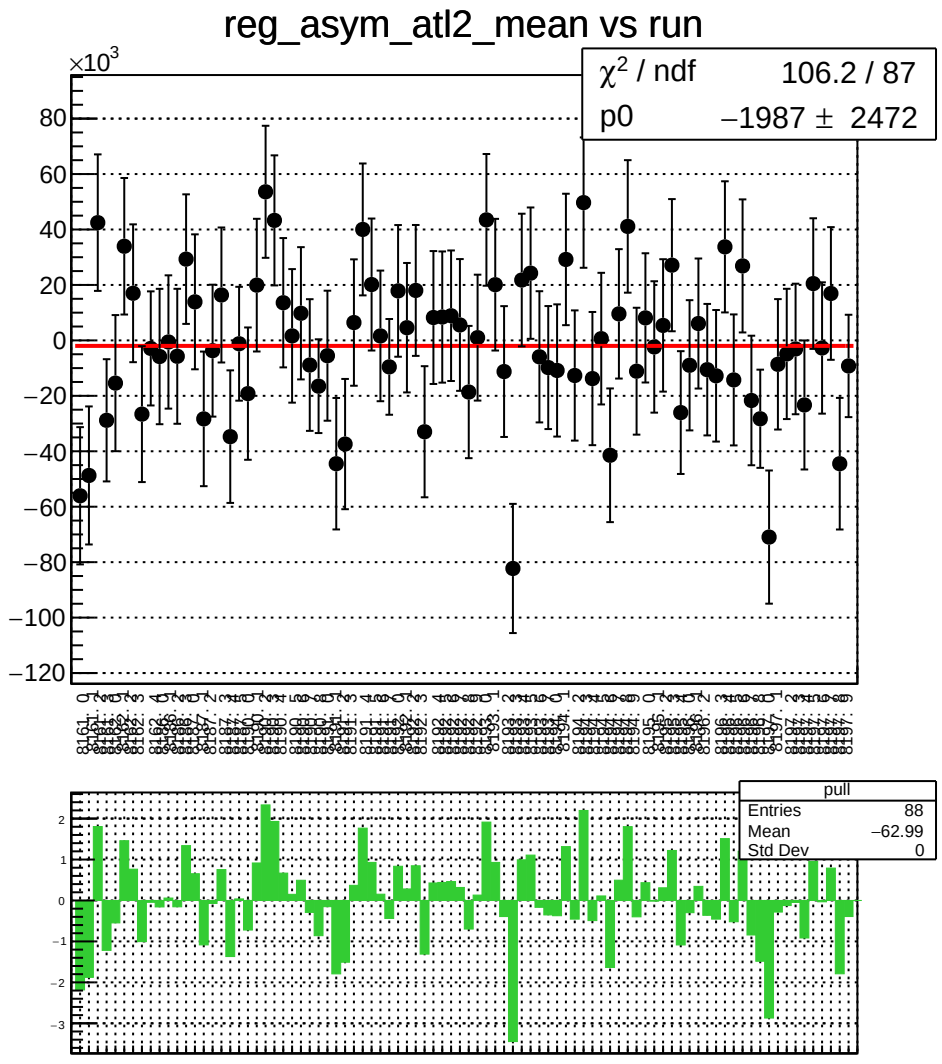

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.686e+05 / 87
p0 99.84 ± 0.09527
450
400
350
300
250
200
150
100
50

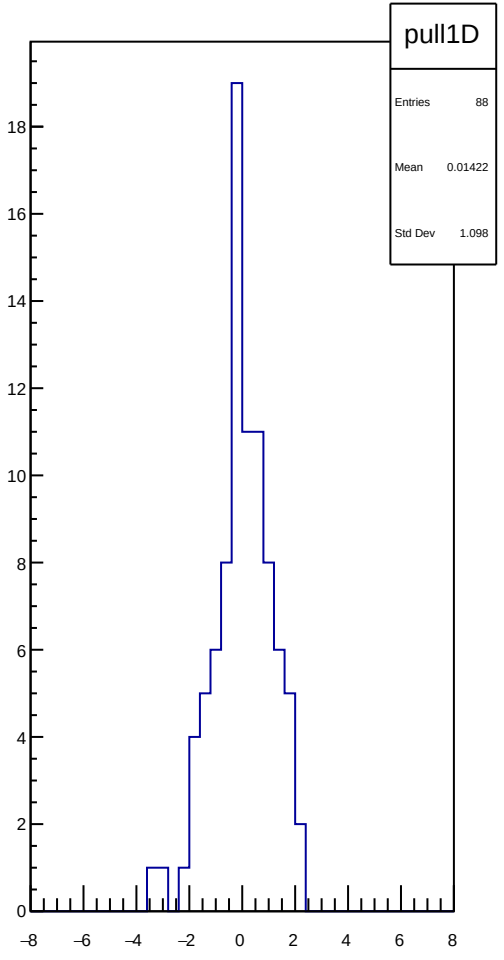

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.96 / 87
p0 0.2138 ± 0.1347
pull
Entries 88
Mean 37.42
Std Dev 0
pull1D
Entries 88
Mean −0.1018
Std Dev 0.9048

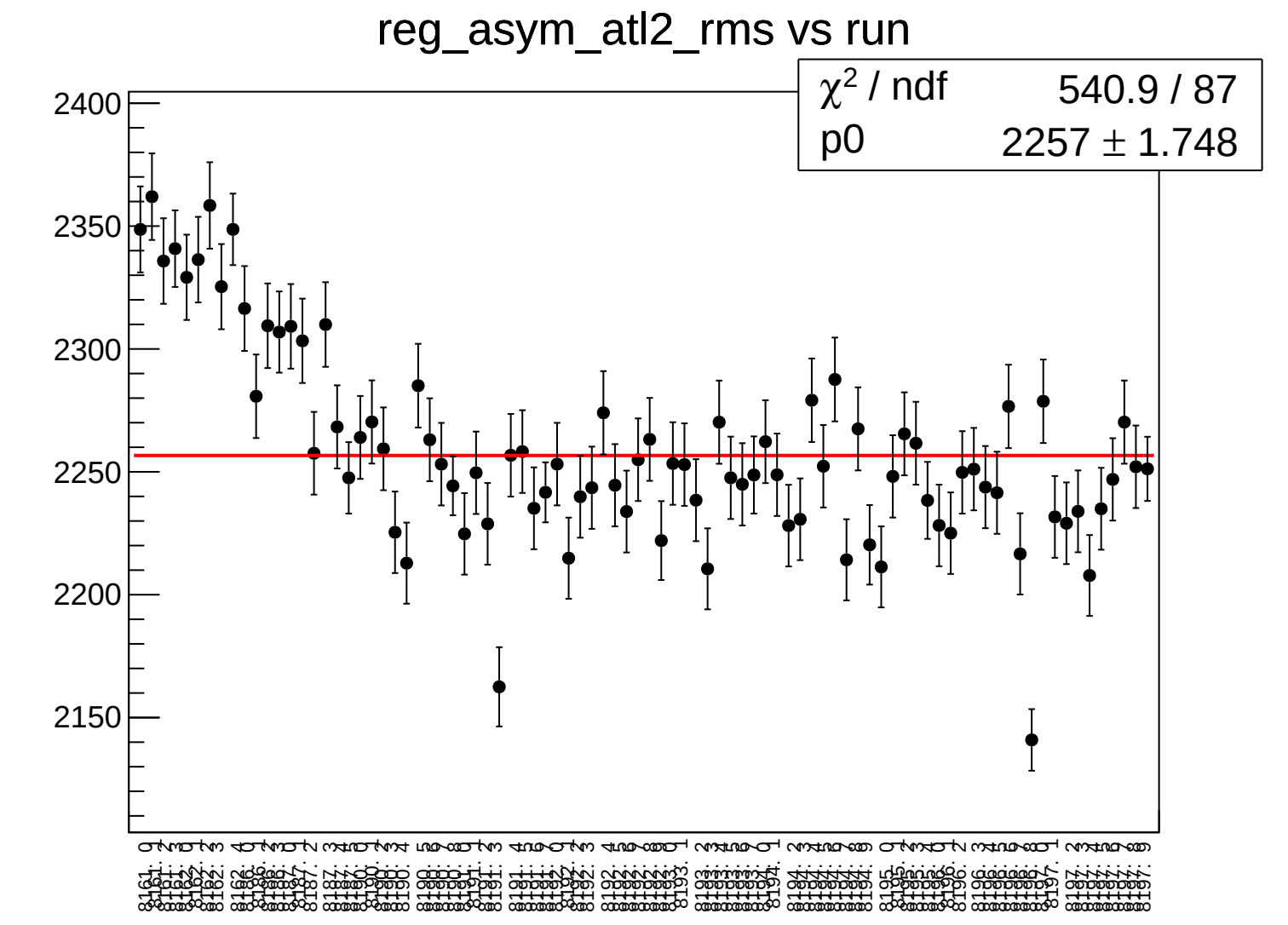

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.686e+05 / 87
p0 99.84 ± 0.09527
450
400
350
300
250
200
150
100
50

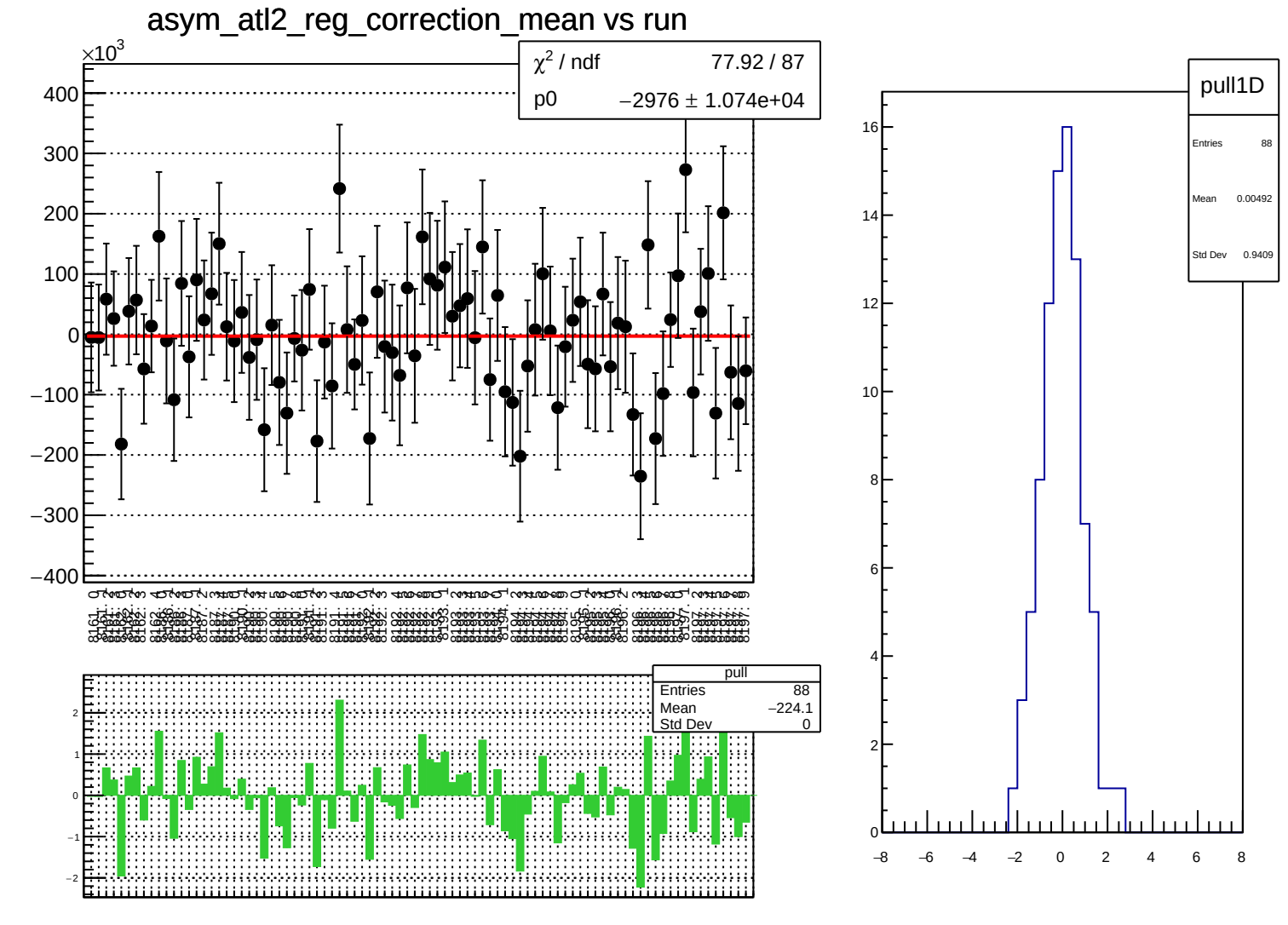

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.55 / 87
p0 −1.38e−13 ± 5.045e−14
pull
Entries 88
Mean 28.05
Std Dev 32.26
pull1D
Entries 88
Mean −0.03712
Std Dev 0.956

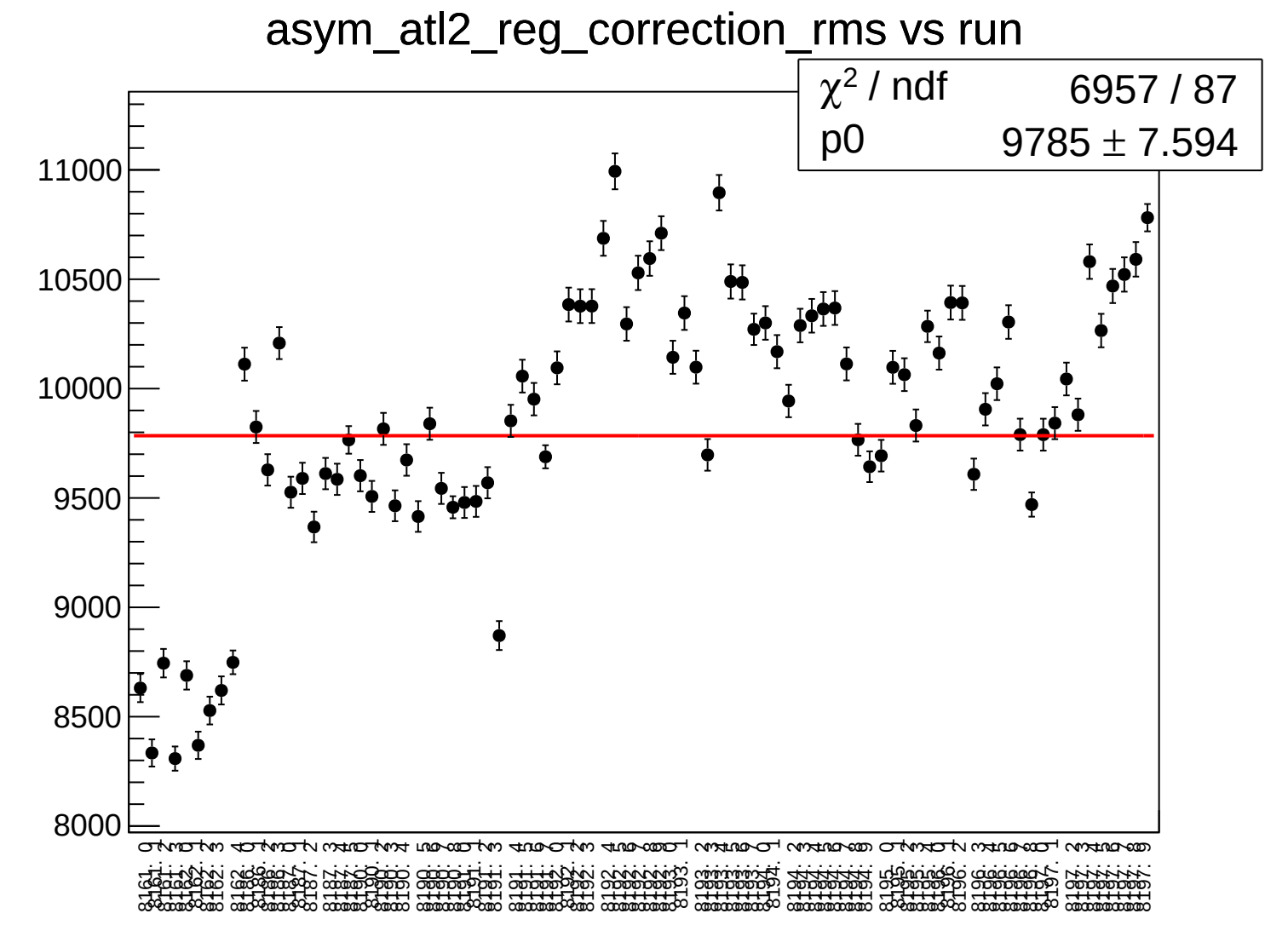

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.419e+05 / 87
p0 3.784e−11 ± 3.567e−14
0.3
0.25
0.2
0.15
0.1
0.05

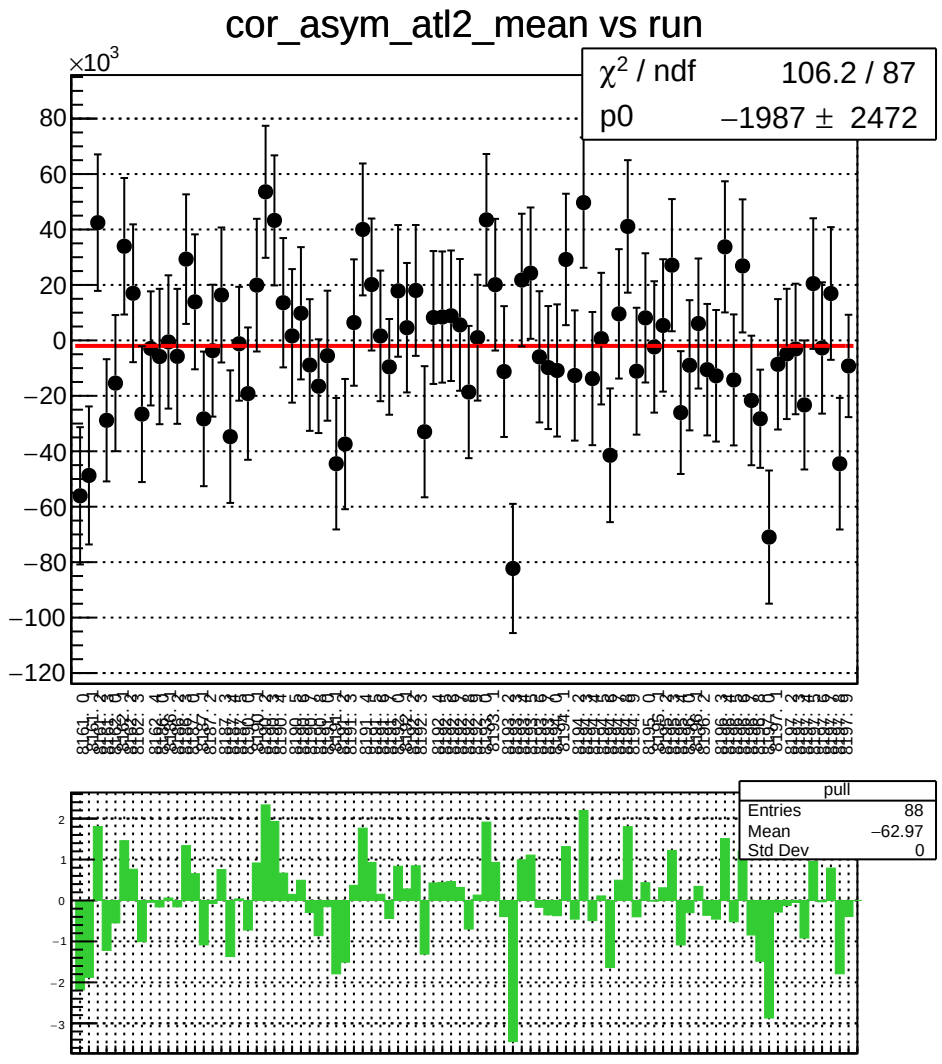

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 106.2 / 87
p0 −1987 ± 2472
pull
Entries 88
Mean −62.99
Std Dev 0

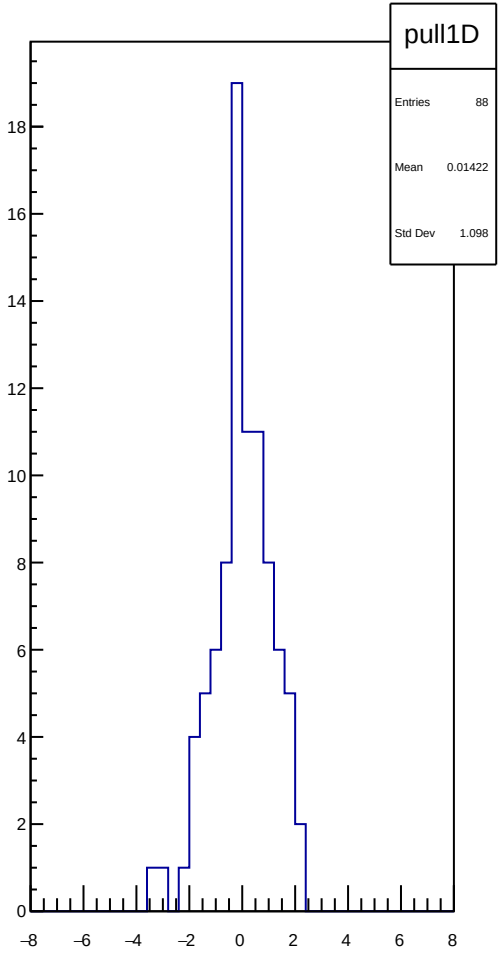

pull1D
Entries 88
Mean 0.01422
Std Dev 1.098

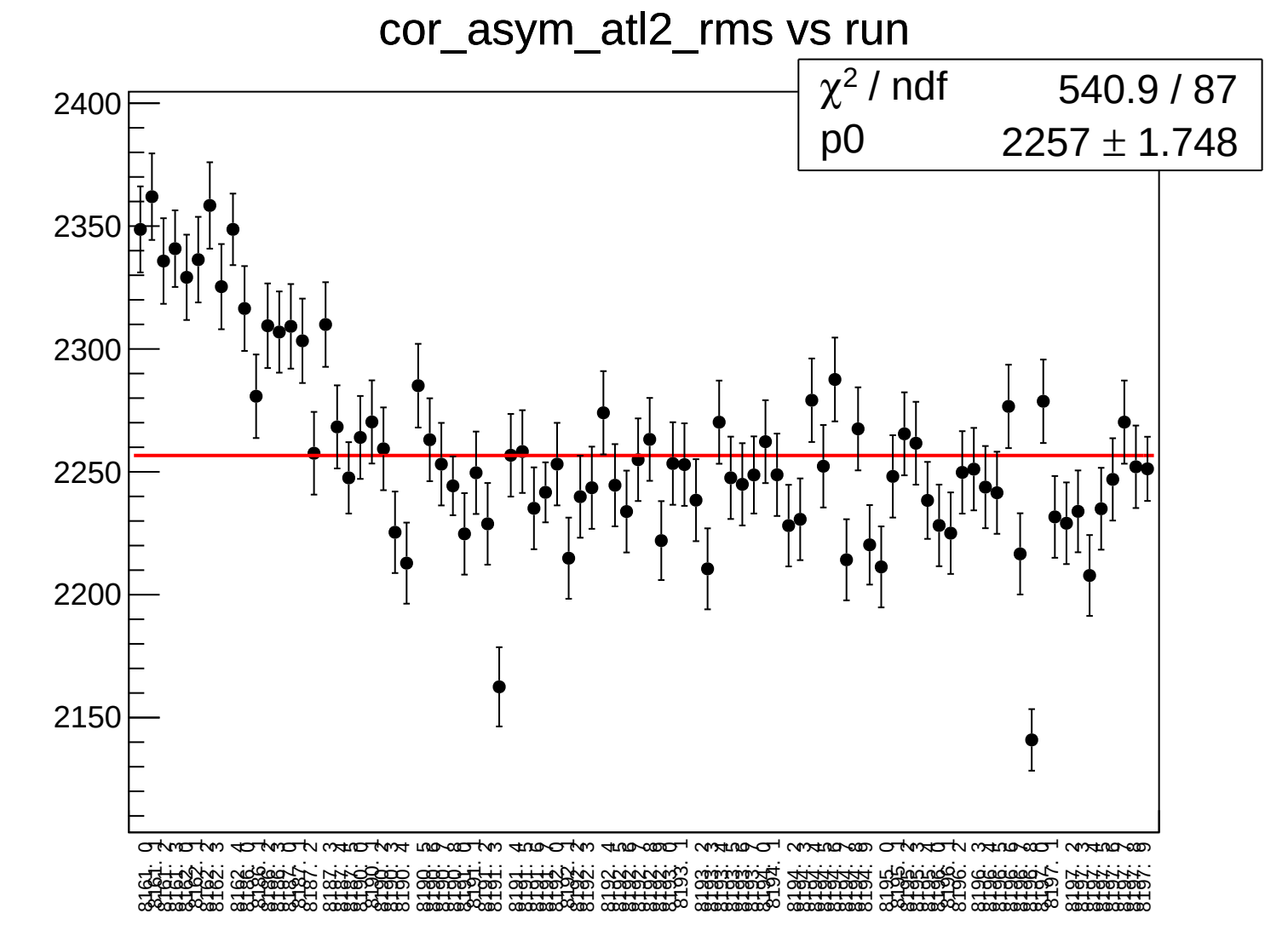

reg_asym_atl2_rms vs run
χ^2 / ndf 540.9 / 87
p0 2257 ± 1.748
2400
2350
2300
2250
2200
2150

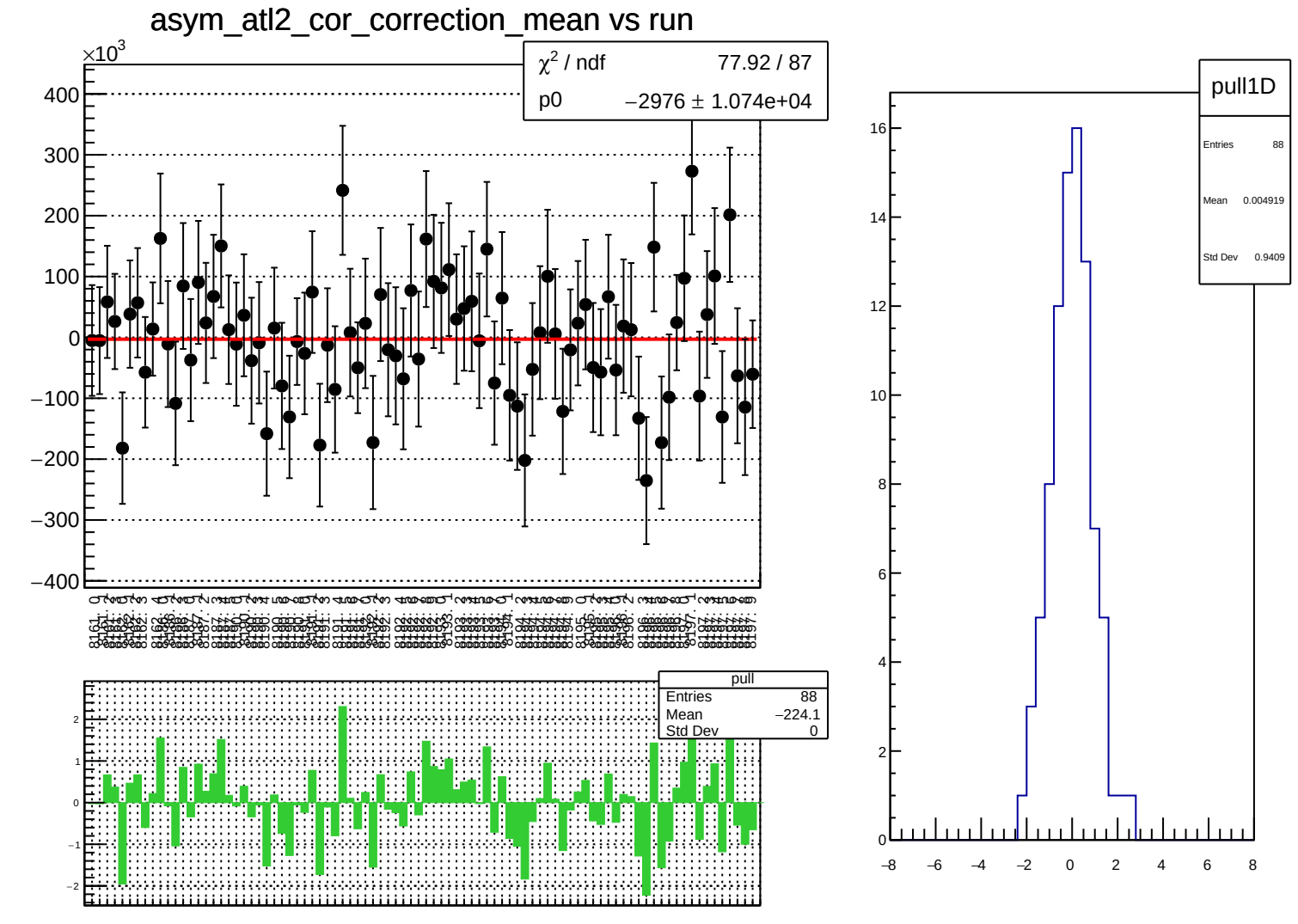

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 77.92 / 87
p0 −2976 ± 1.074e+04
pull
Entries 88
Mean −224.1
Std Dev 0
pull1D
Entries 88
Mean 0.00492
Std Dev 0.9409

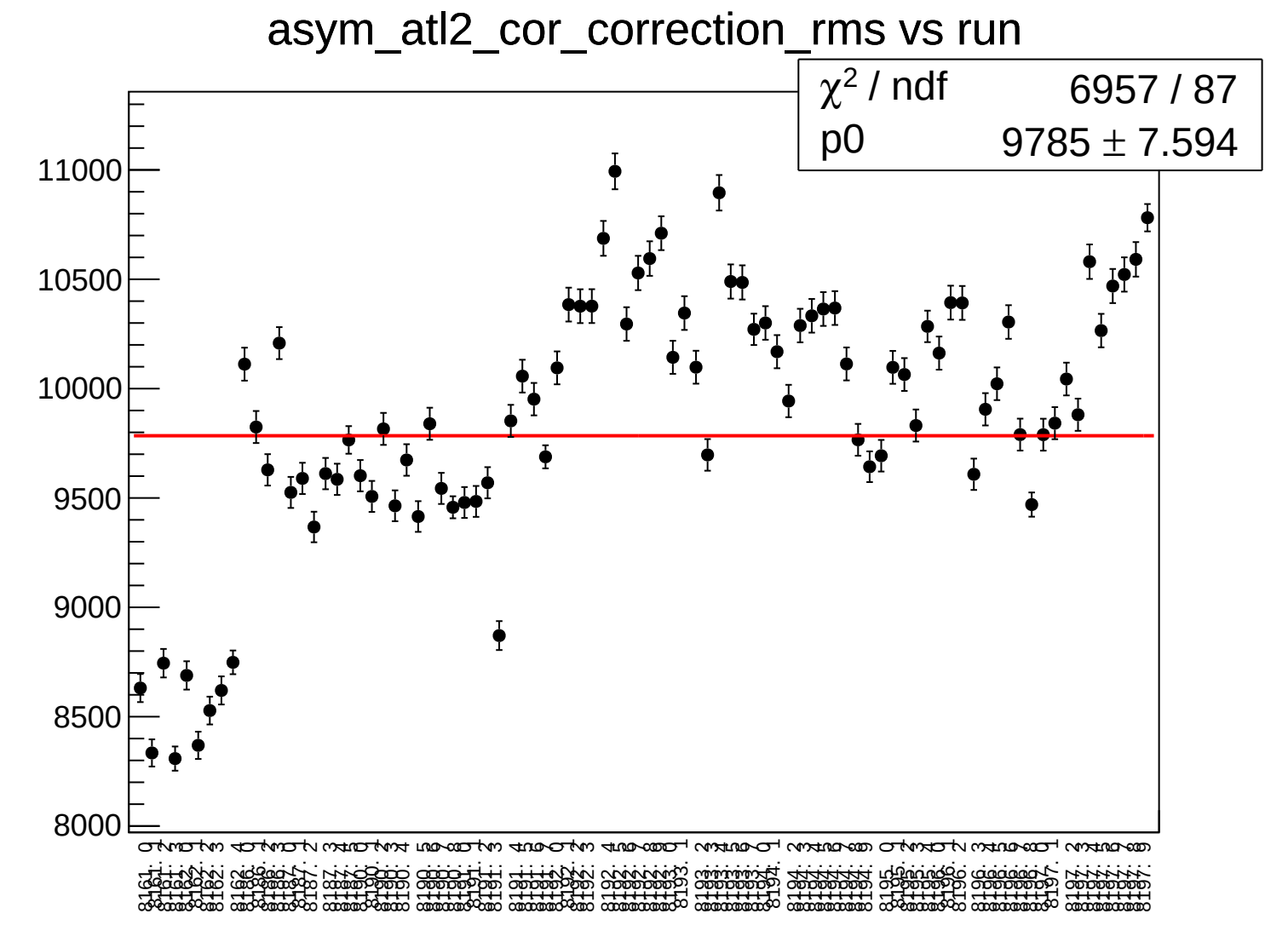

asym_atl2_reg_correction_rms vs run
χ² / ndf 6957 / 87
p0 9785 ± 7.594
11000
10500
10000
9500
9000
8500
8000

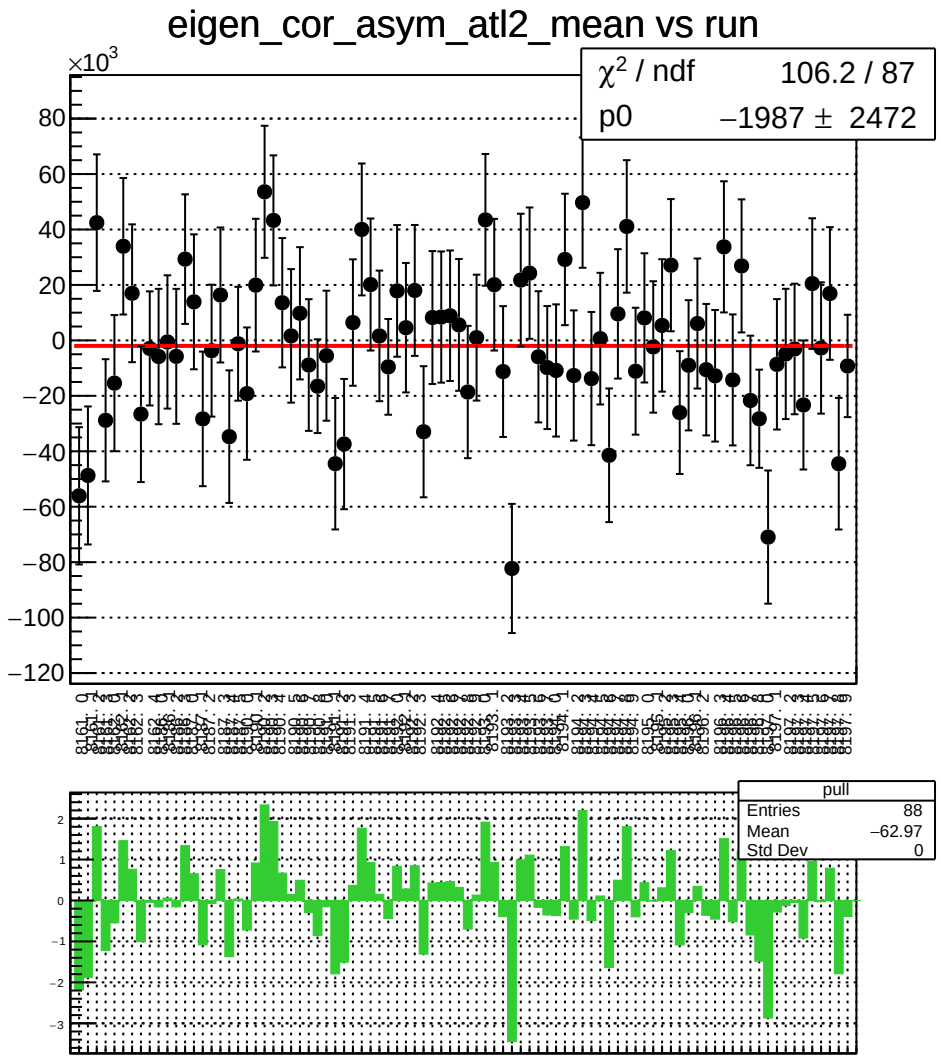

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 106.2 / 87
p0 −1987 ± 2472
pull
Entries 88
Mean −62.97
Std Dev 0

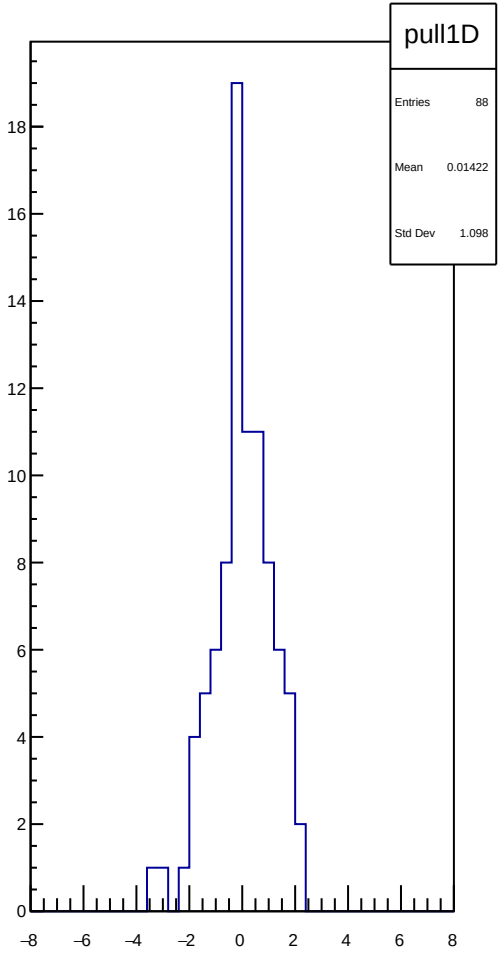

pull1D
Entries 88
Mean 0.01422
Std Dev 1.098

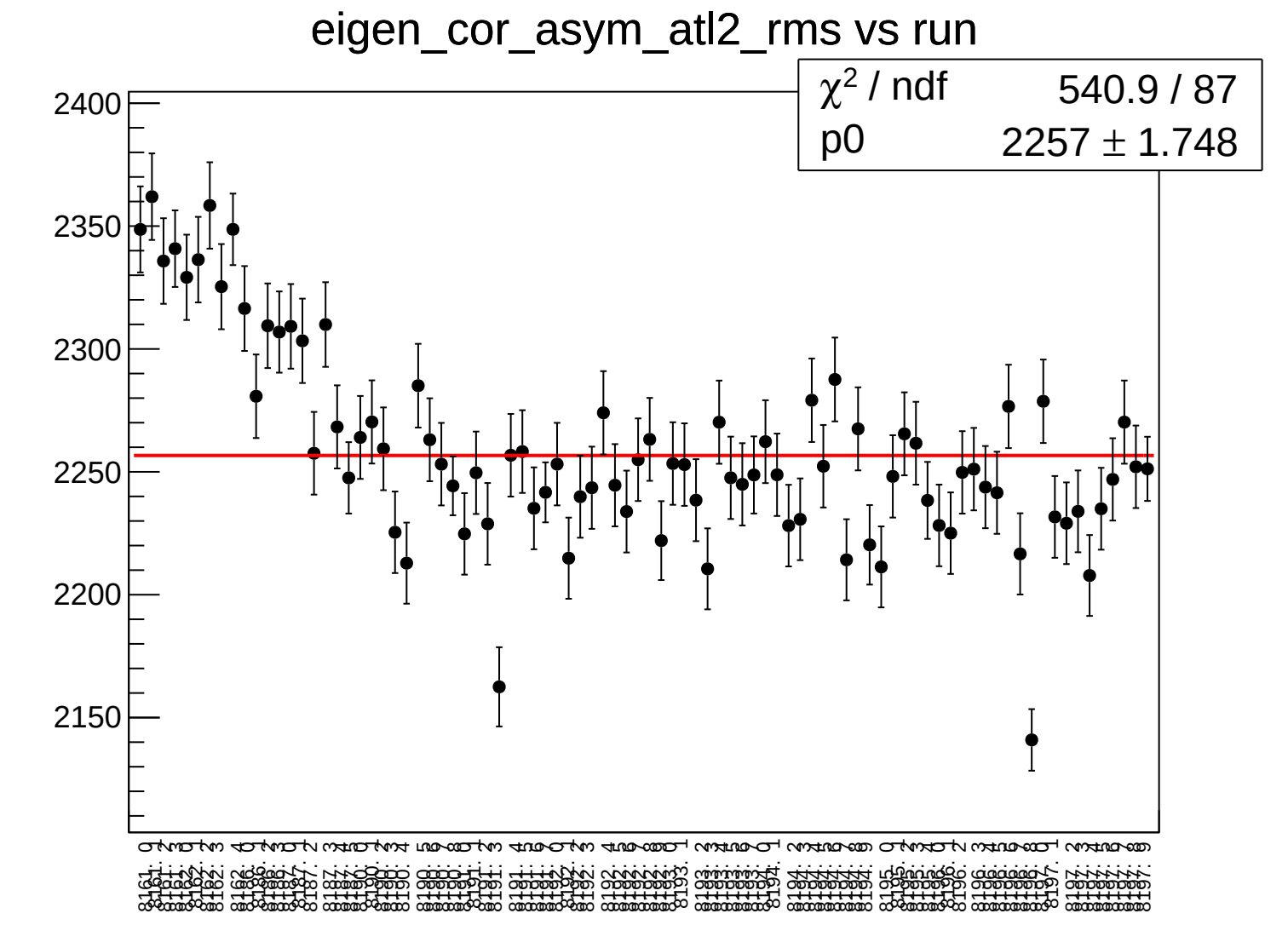

cor_asym_atl2_rms vs run
χ^2 / ndf 540.9 / 87
p0 2257 ± 1.748
2400
2350
2300
2250
2200
2150

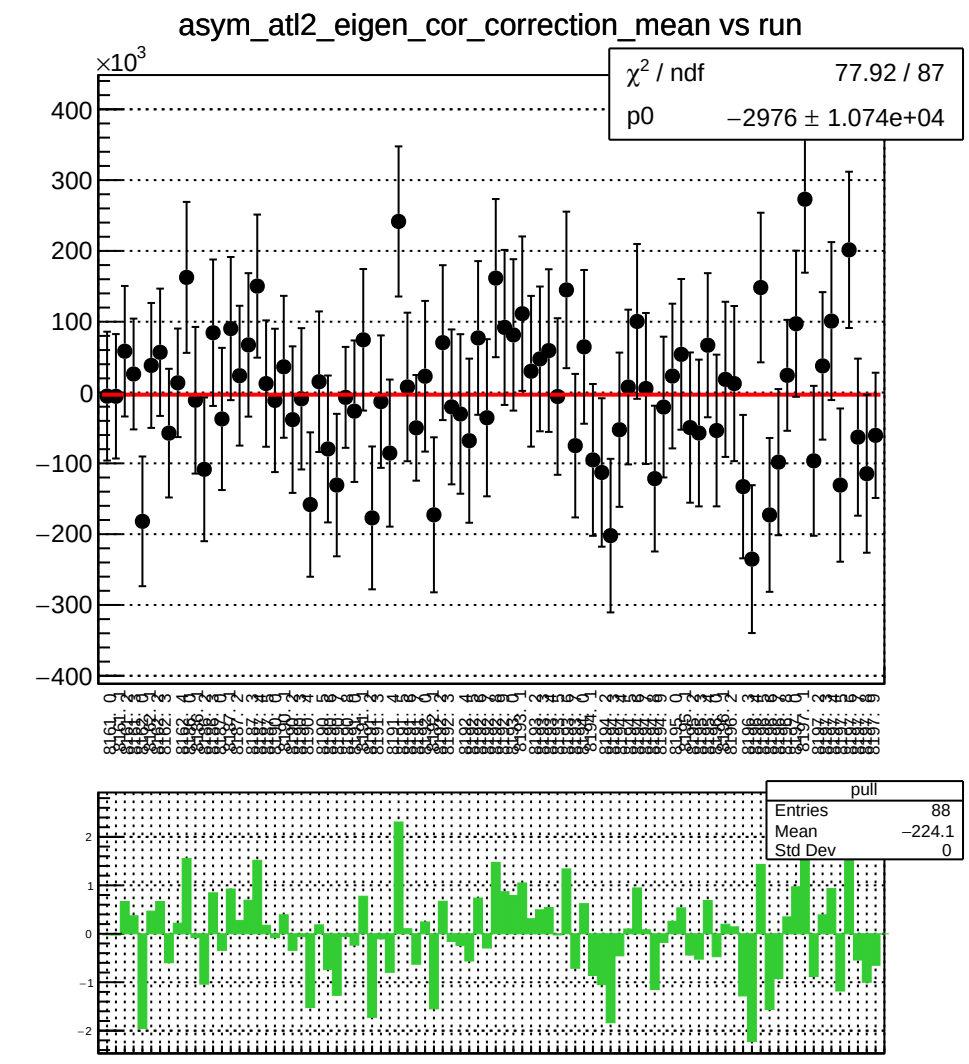

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 77.92 / 87
p0 −2976 ± 1.074e+04
pull
Entries 88
Mean −224.1
Std Dev 0
pull1D
Entries 88
Mean 0.004919
Std Dev 0.9409

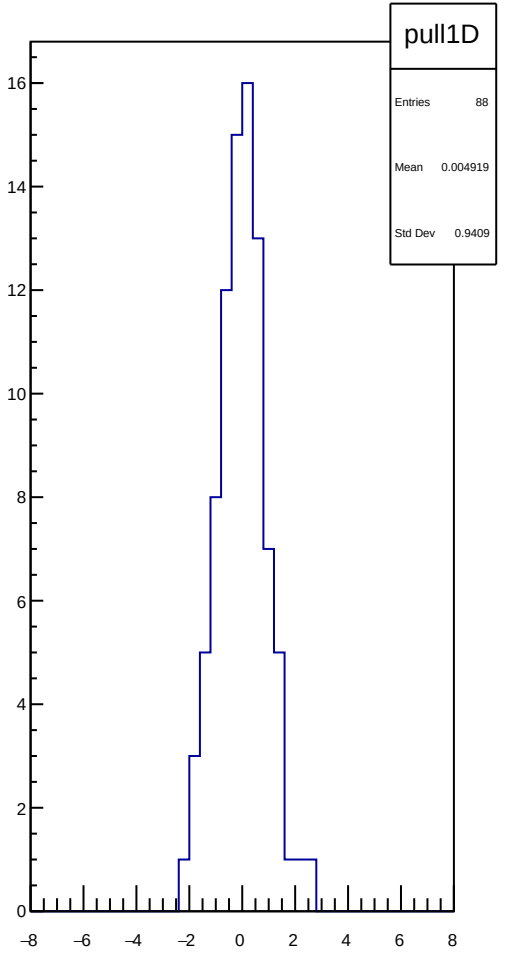

asym_atl2_cor_correction_rms vs run
χ² / ndf 6957 / 87
p0 9785 ± 7.594
11000
10500
10000
9500
9000
8500
8000

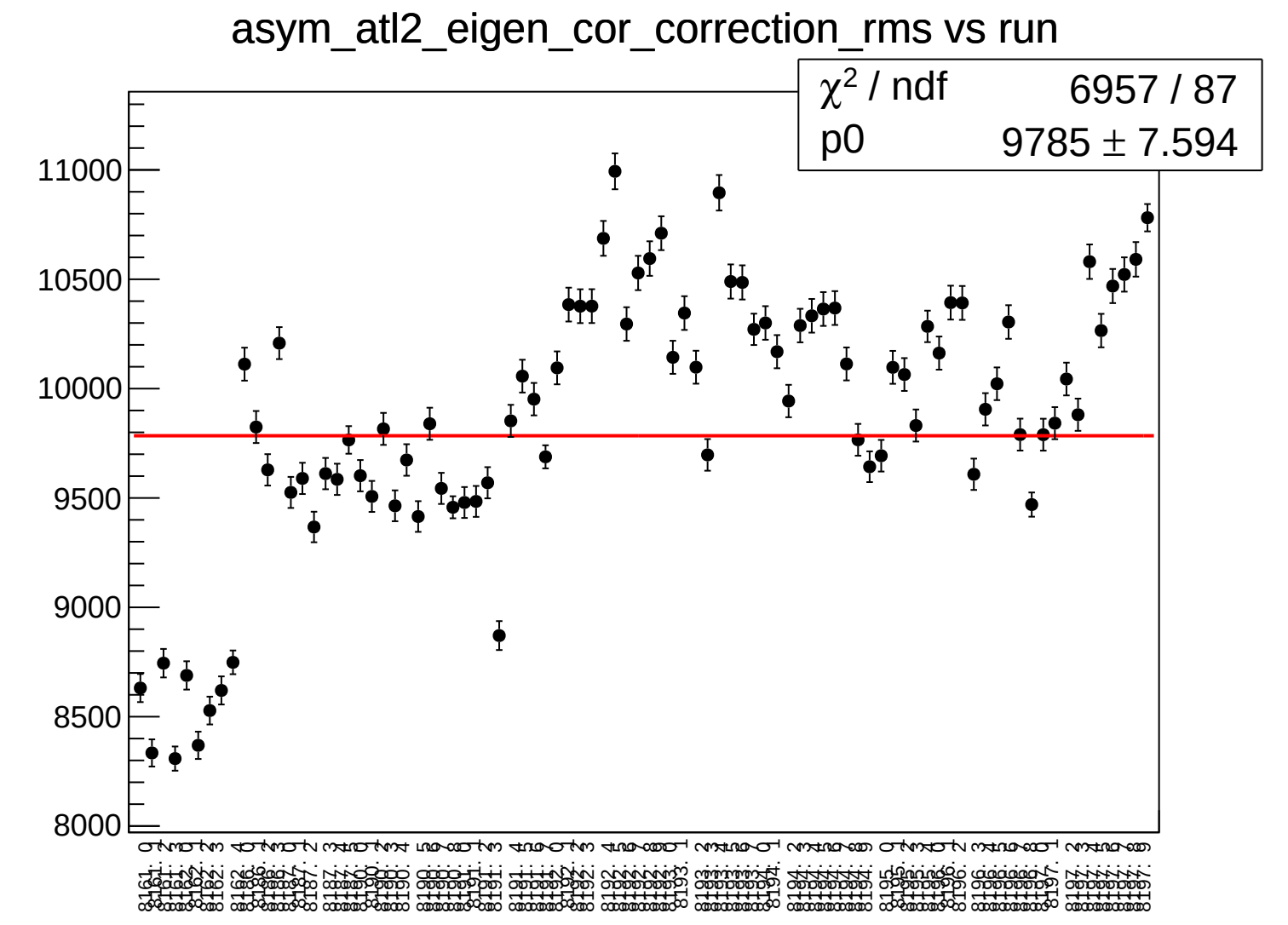

eigen_cor_asym_atl2_mean vs run
χ² / ndf 106.2 / 87
p0 −1987 ± 2472
pull
Entries 88
Mean −62.97
Std Dev 0

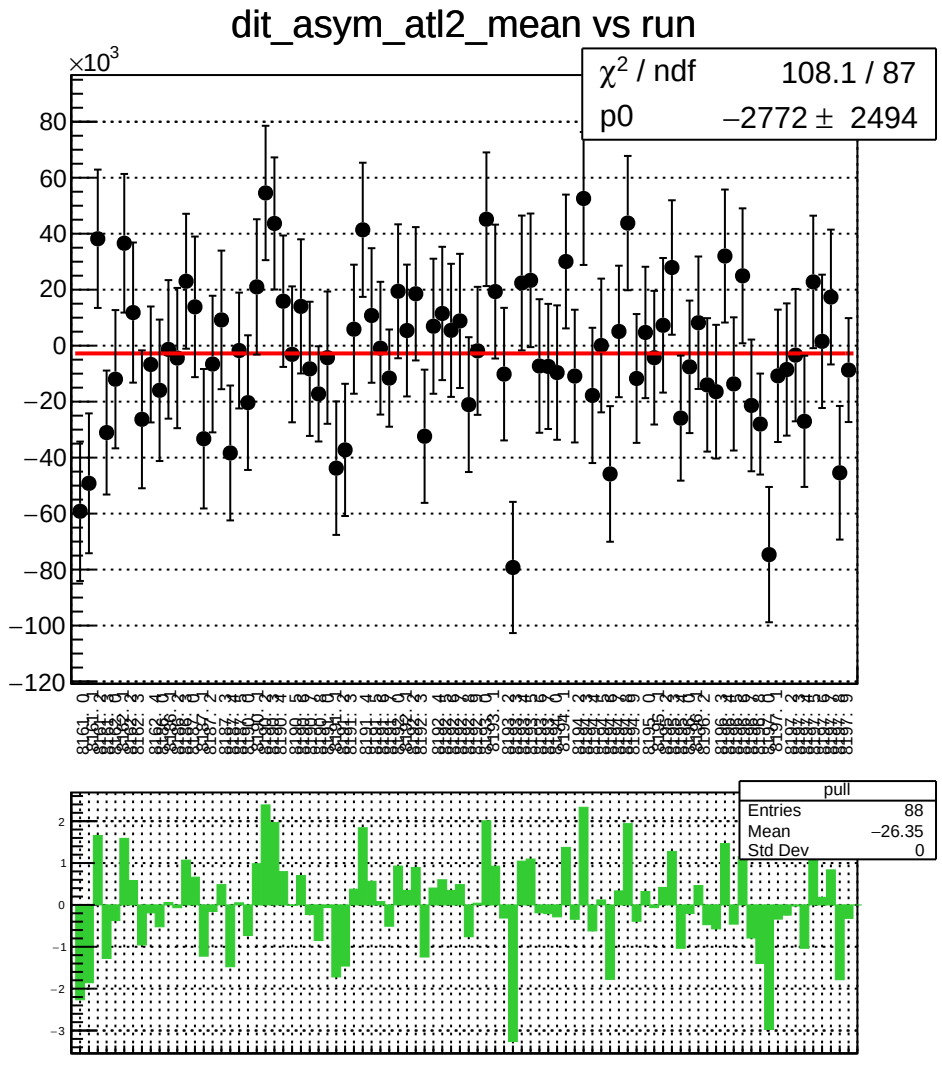

pull1D
Entries 88
Mean 0.01422
Std Dev 1.098

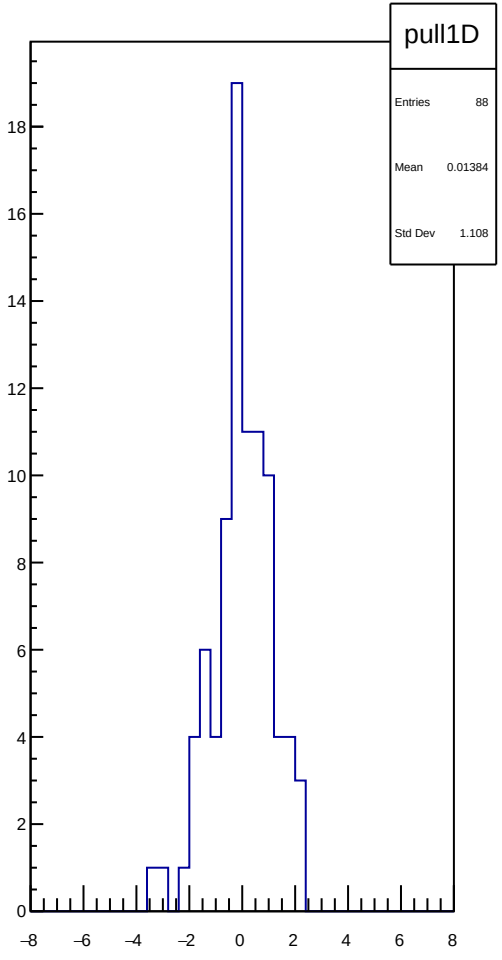

eigen_cor_asym_atl2_rms vs run
χ² / ndf 540.9 / 87
p0 2257 ± 1.748
2400
2350
2300
2250
2200
2150

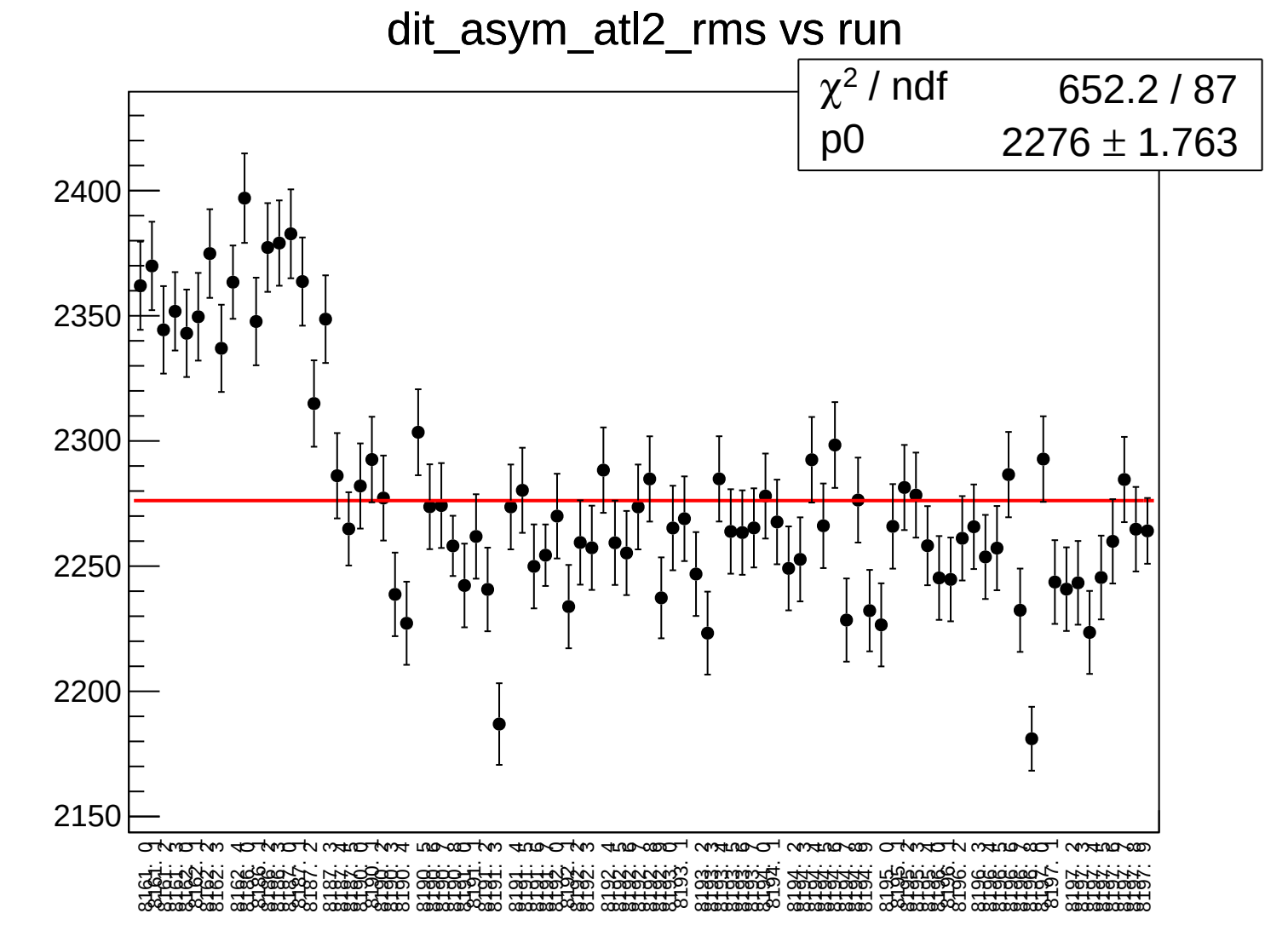

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.92 / 87
p0 −2976 ± 1.074e+04
pull
Entries 88
Mean −224.1
Std Dev 0

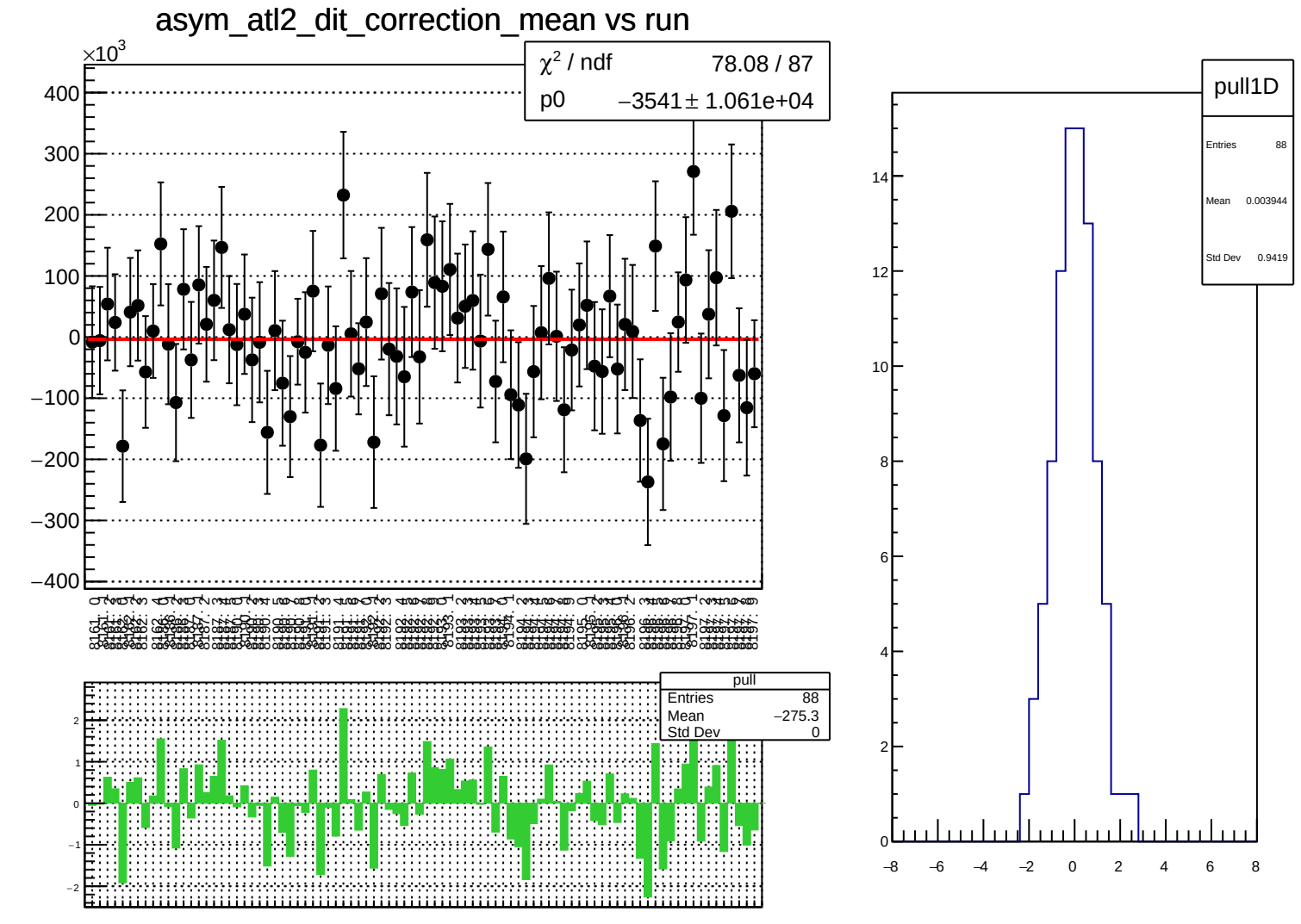

pull1D
Entries 88
Mean 0.004919
Std Dev 0.9409

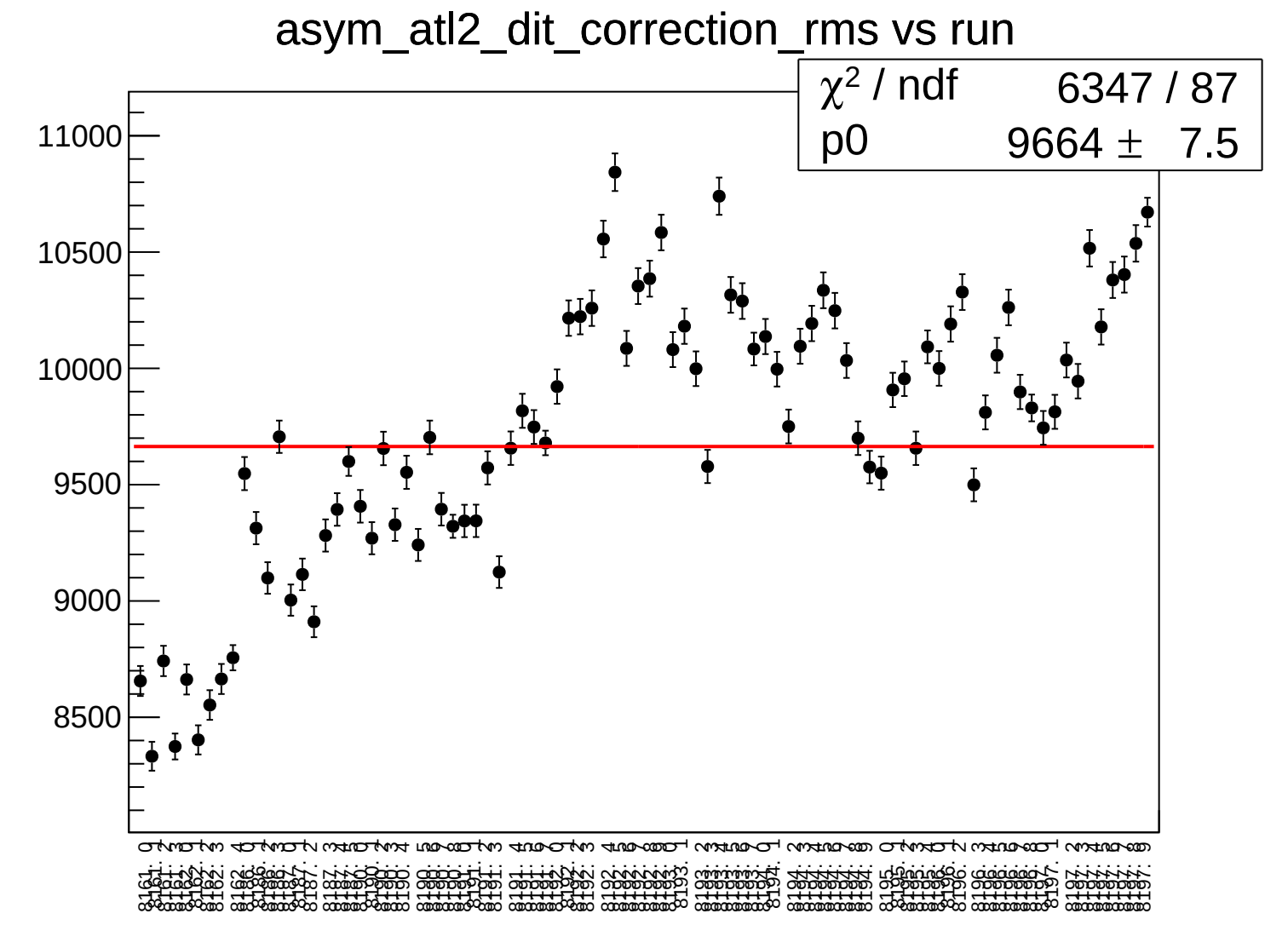

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 6957 / 87
p0 9785 ± 7.594
11000
10500
10000
9500
9000
8500
8000

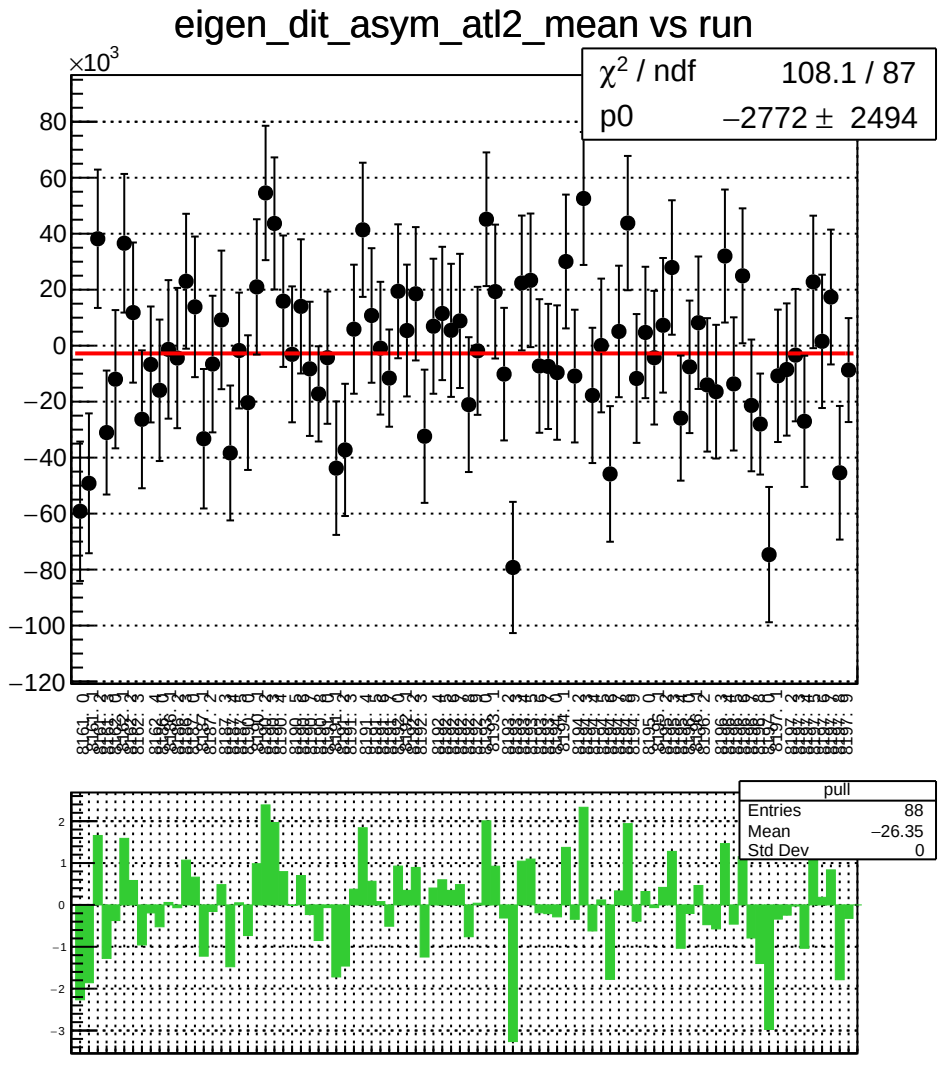

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 108.1 / 87
p0 −2772 ± 2494
pull
Entries 88
Mean −26.35
Std Dev 0

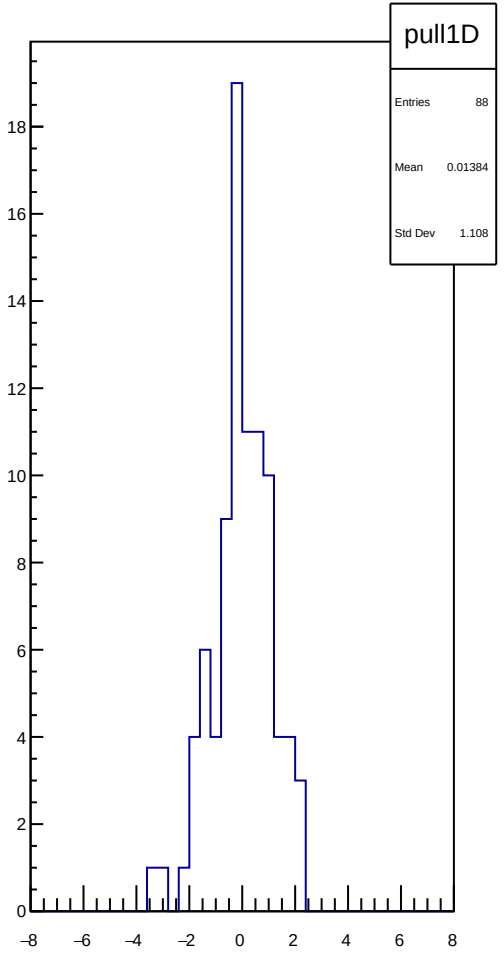

pull1D
Entries 88
Mean 0.01384
Std Dev 1.108

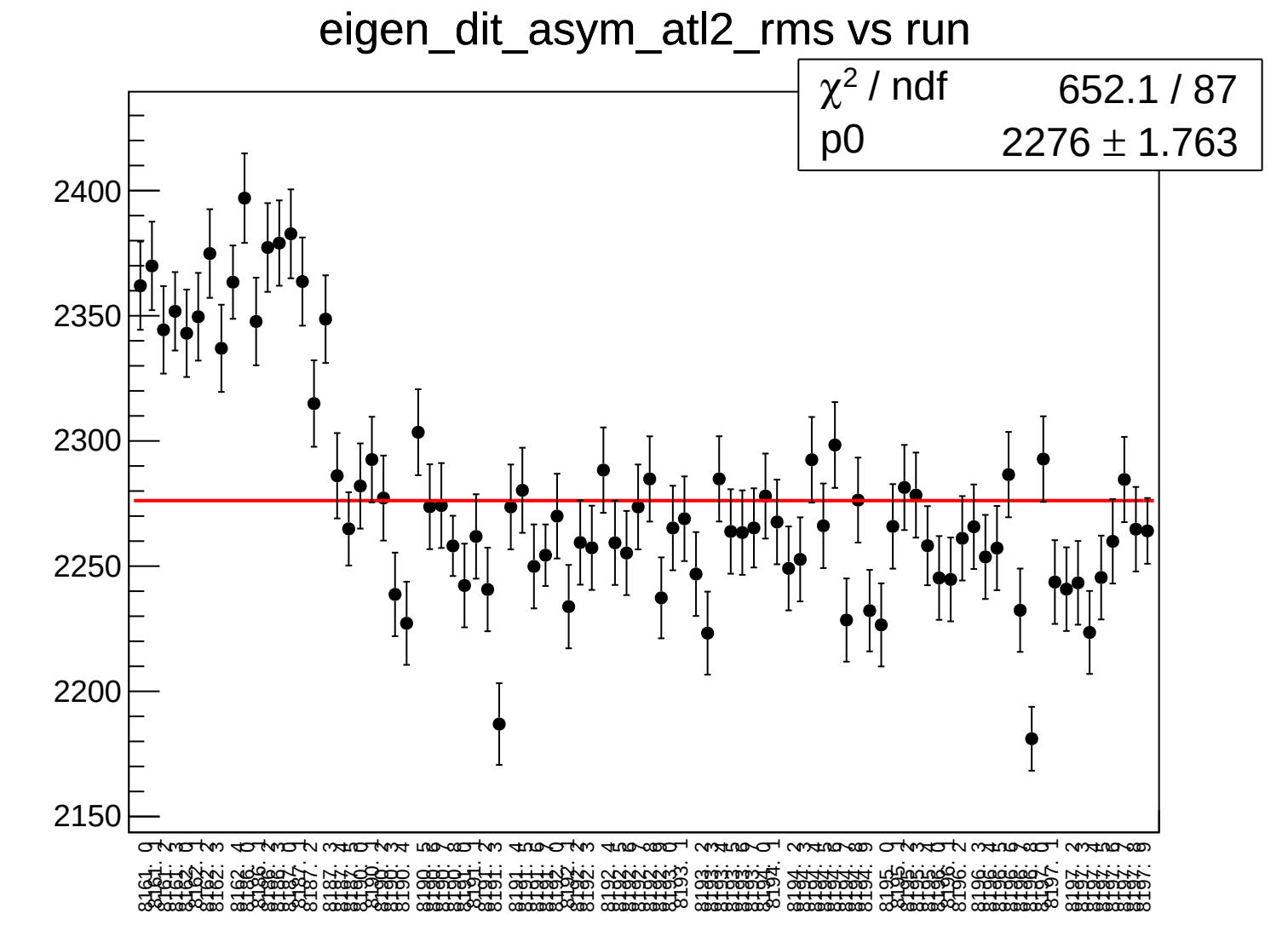

dit_asym_atl2_rms vs run
χ² / ndf 652.2 / 87
p0 2276 ± 1.763
2400
2350
2300
2250
2200
2150

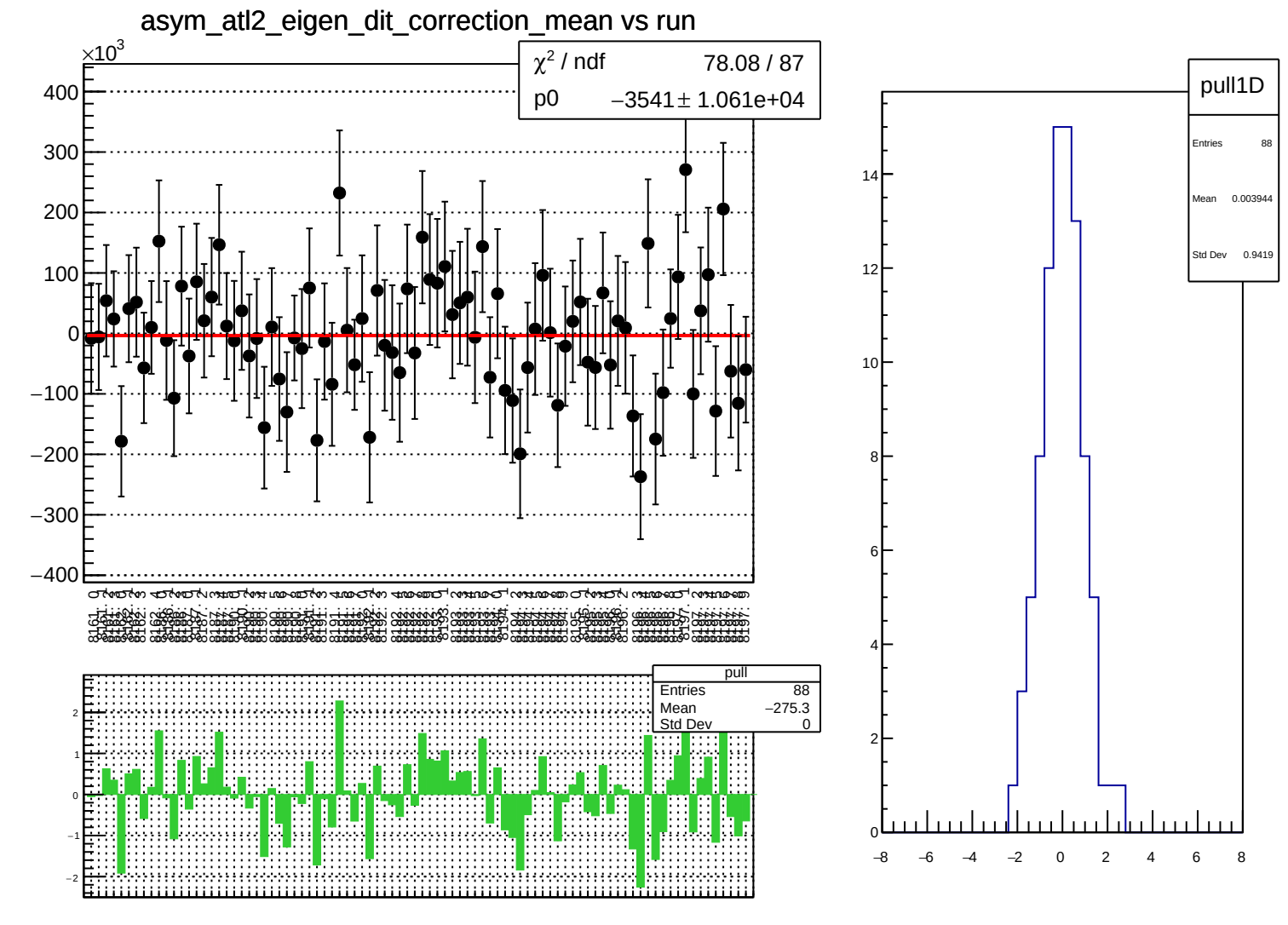

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 78.08 / 87
p0 −3541 ± 1.061e+04
pull
Entries 88
Mean −275.3
Std Dev 0
pull1D
Entries 88
Mean 0.003944
Std Dev 0.9419

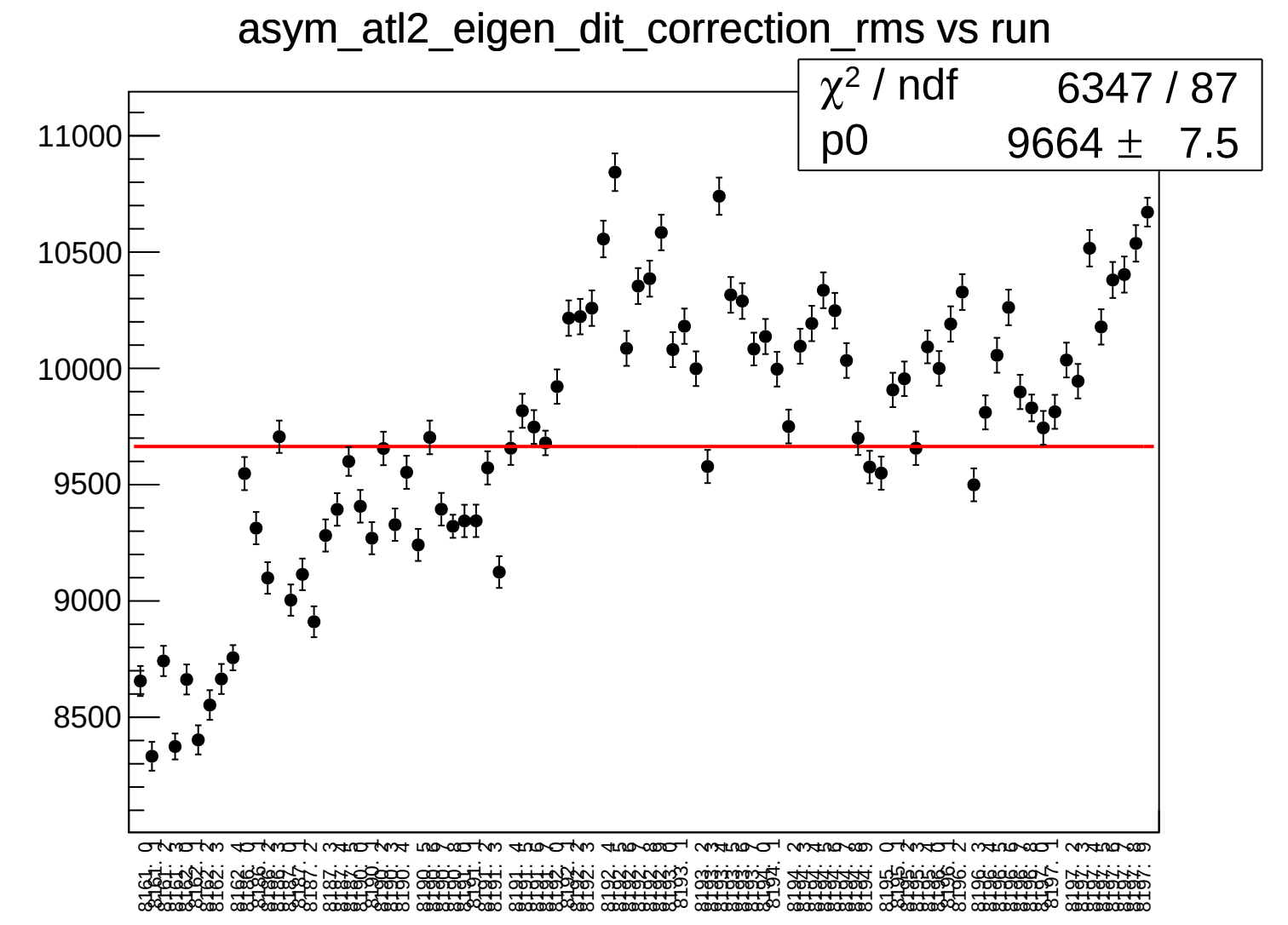

asym_atl2_dit_correction_rms vs run
χ² / ndf 6347 / 87
p0 9664 ± 7.5
11000
10500
10000
9500
9000
8500

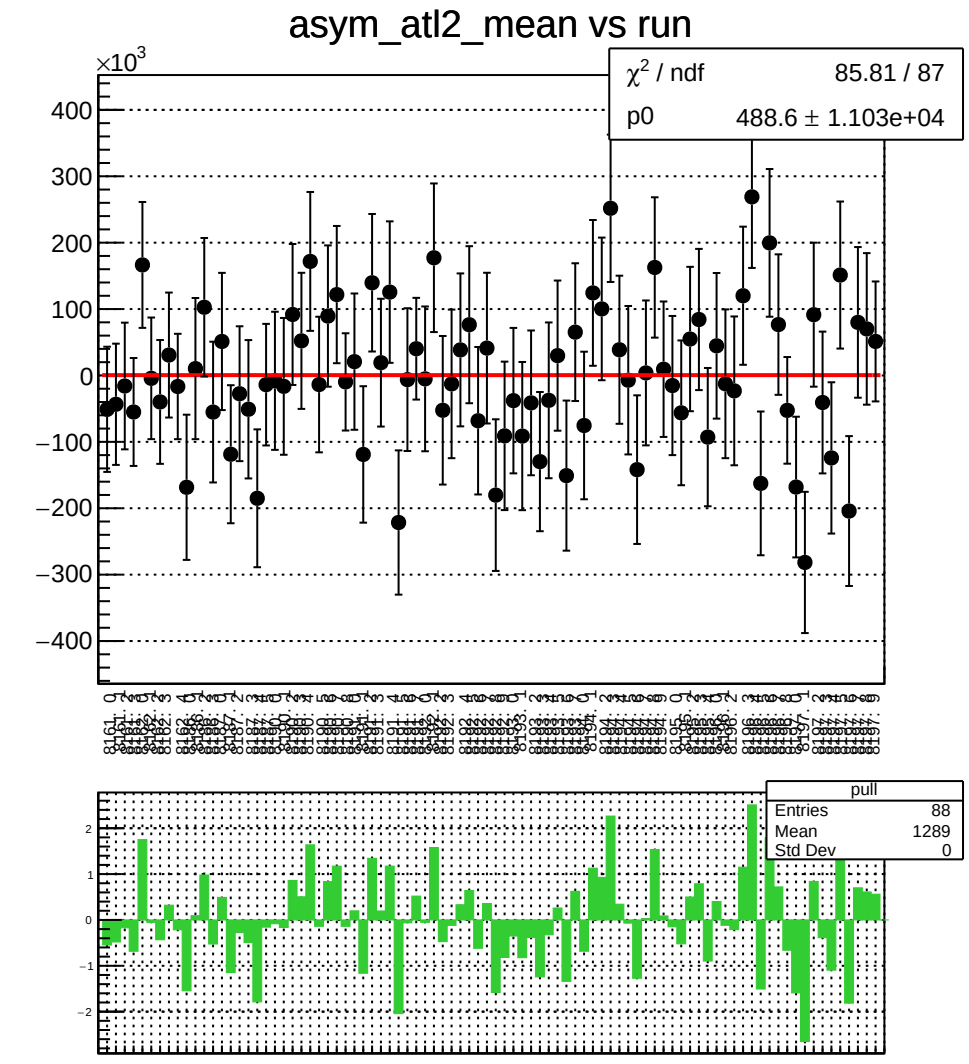

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 108.1 / 87
p0 −2772 ± 2494
pull
Entries 88
Mean −26.35
Std Dev 0

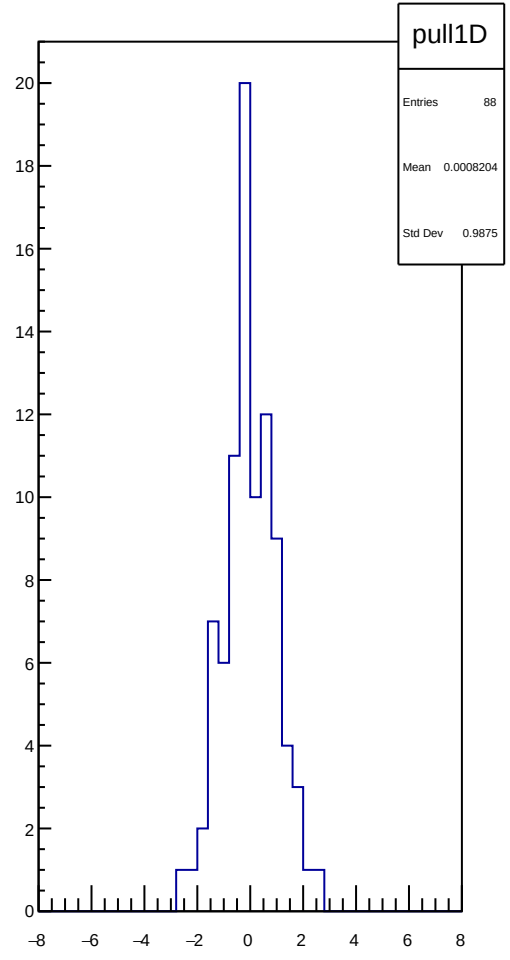

pull1D
Entries 88
Mean 0.01384
Std Dev 1.108

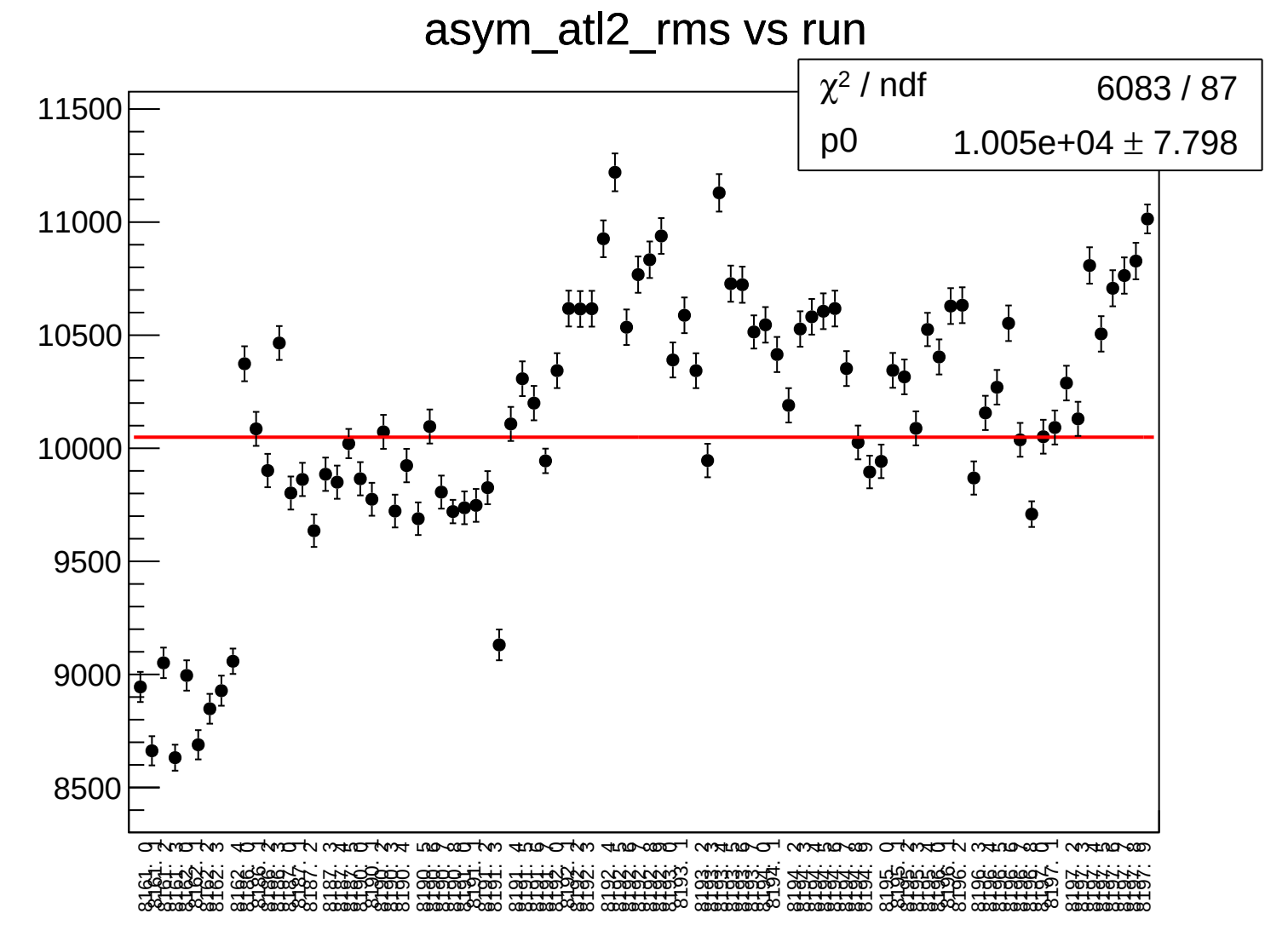

eigen_dit_asym_atl2_rms vs run
χ² / ndf 652.1 / 87
p0 2276 ± 1.763
2400
2350
2300
2250
2200
2150

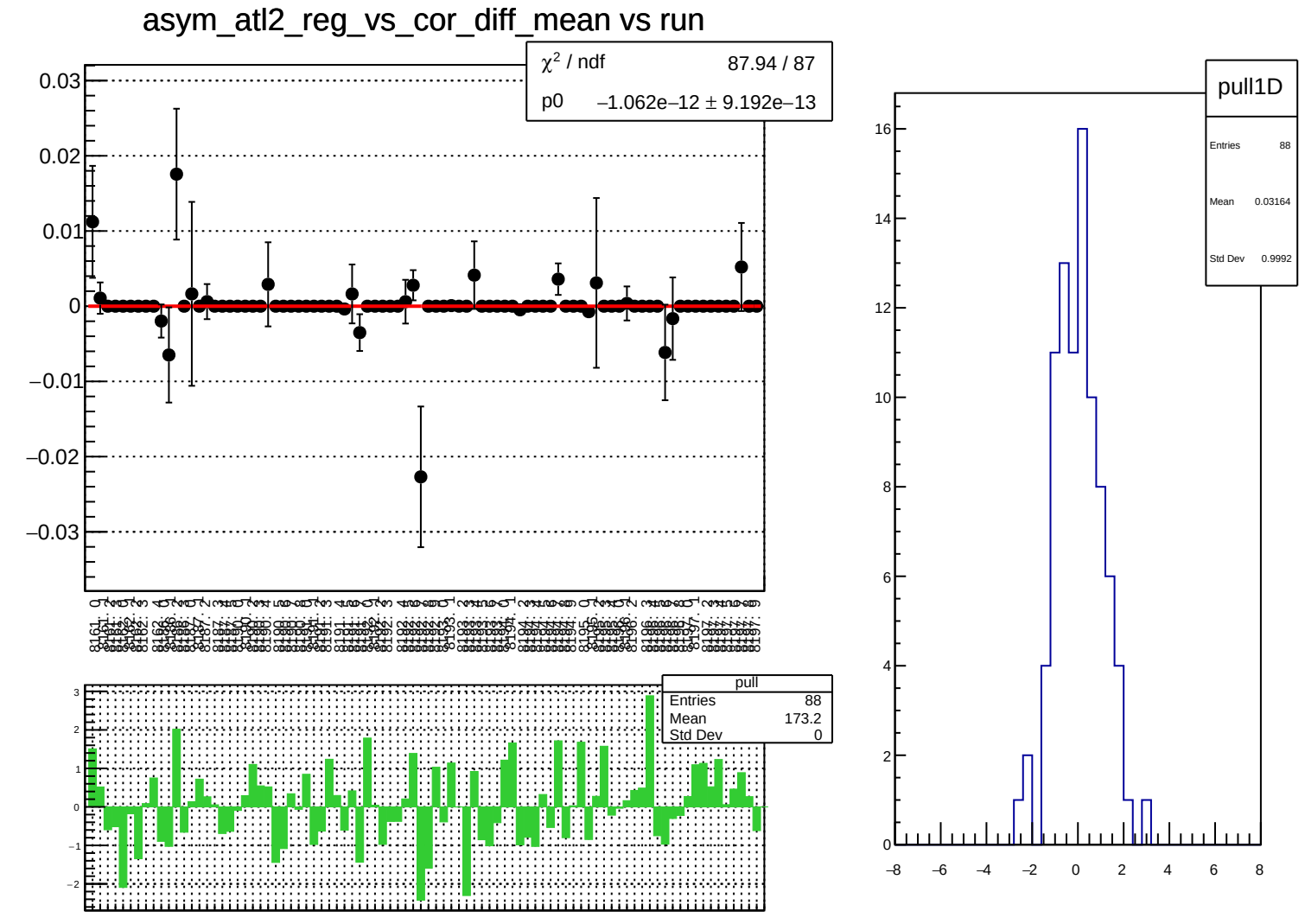

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.08 / 87
p0 −3541 ± 1.061e+04
pull
Entries 88
Mean −275.3
Std Dev 0
pull1D
Entries 88
Mean 0.003944
Std Dev 0.9419

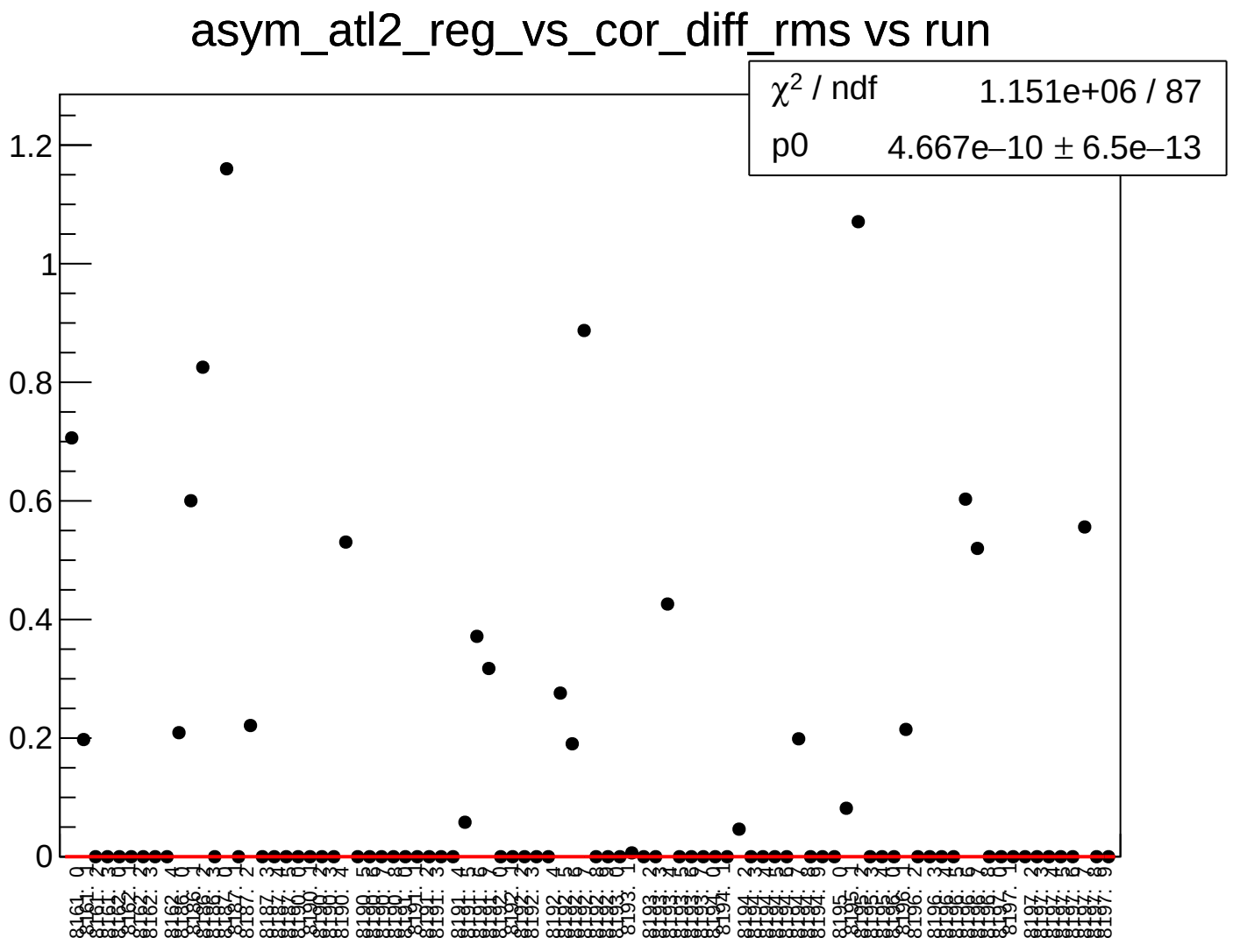

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 6347 / 87
p0 9664 ± 7.5
11000
10500
10000
9500
9000
8500

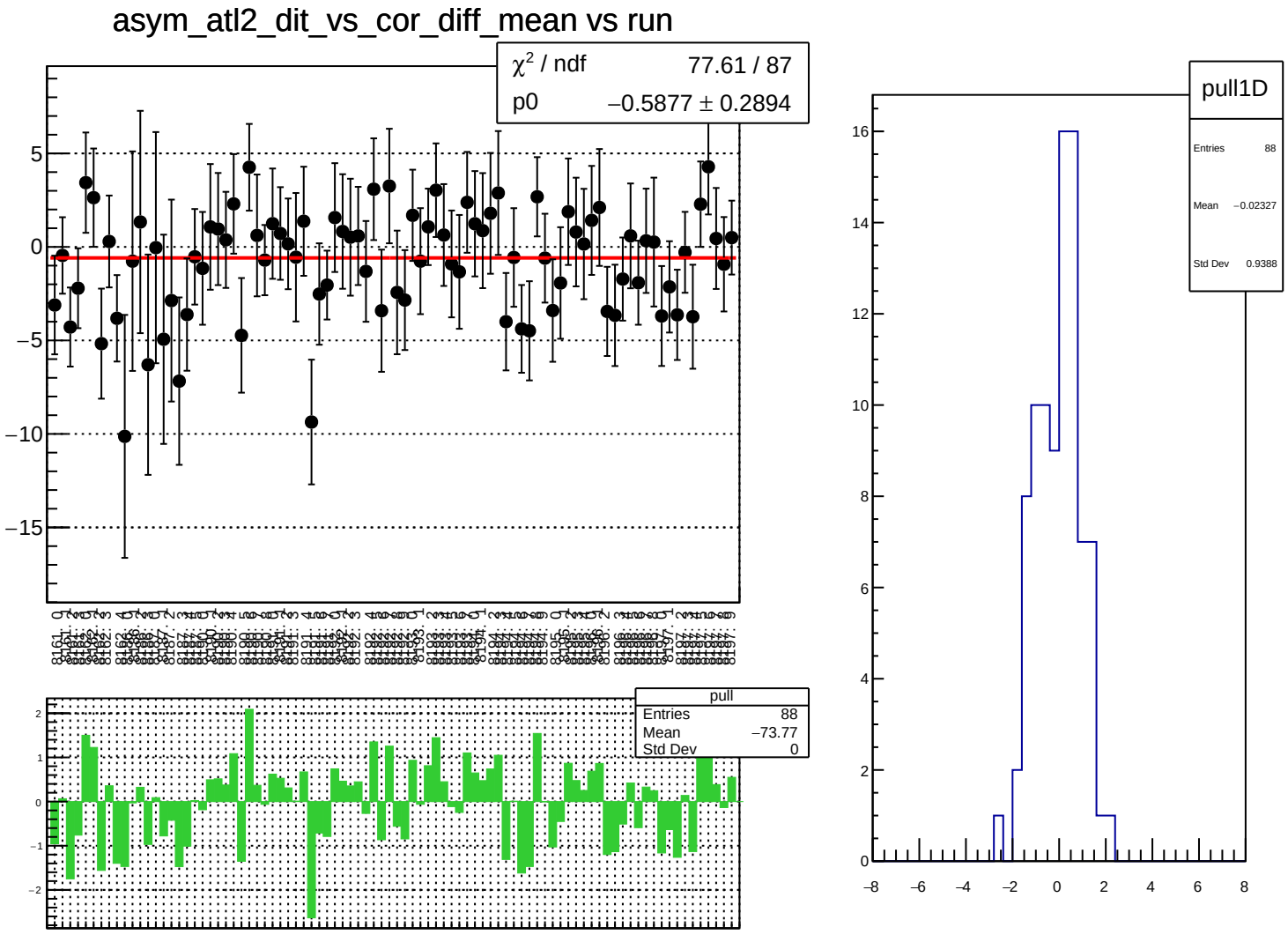

asym_atl2_mean vs run
×10^3
χ² / ndf 85.81 / 87
p0 488.6 ± 1.103e+04
pull
Entries 88
Mean 1289
Std Dev 0

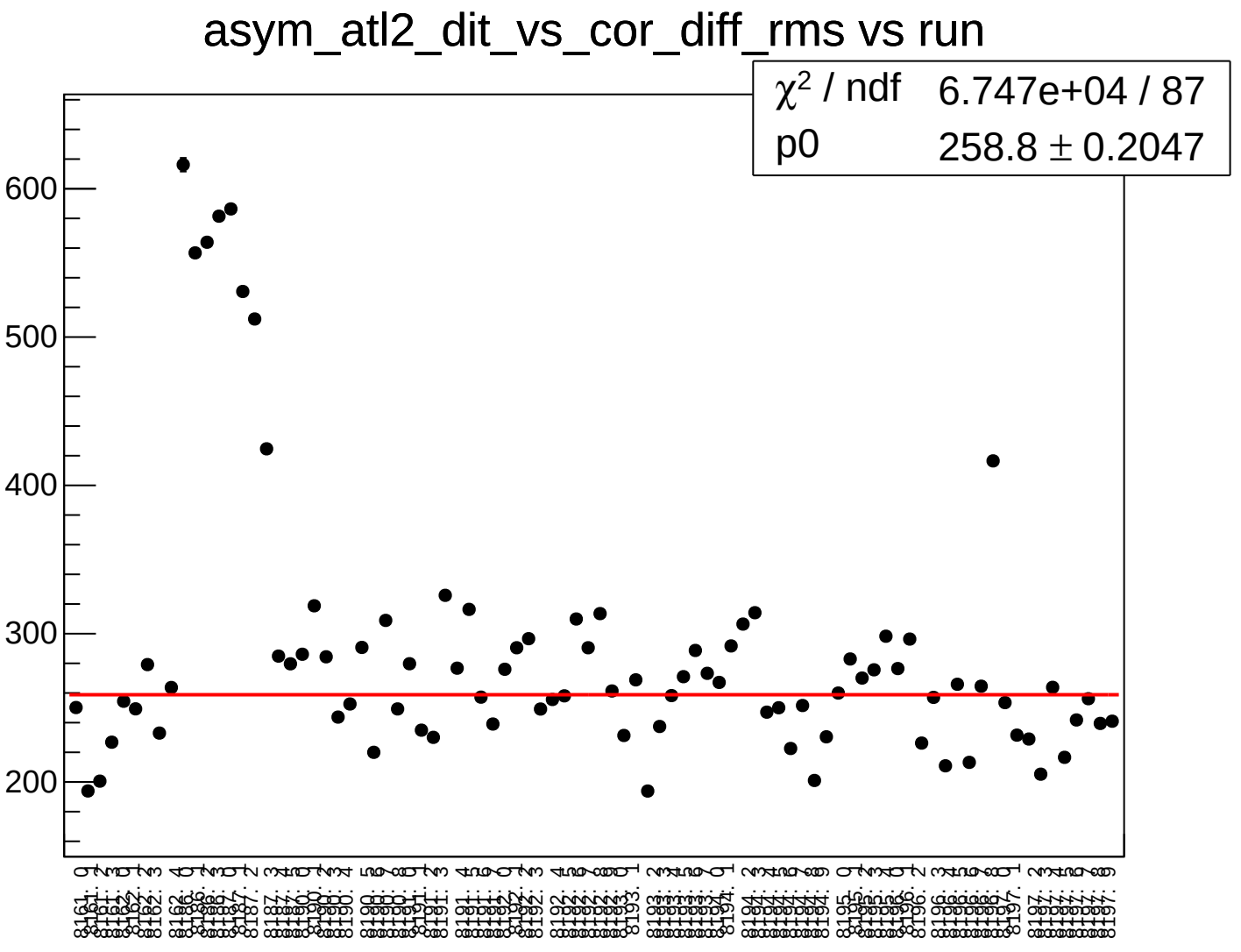

pull1D
Entries 88
Mean 0.0008204
Std Dev 0.9875

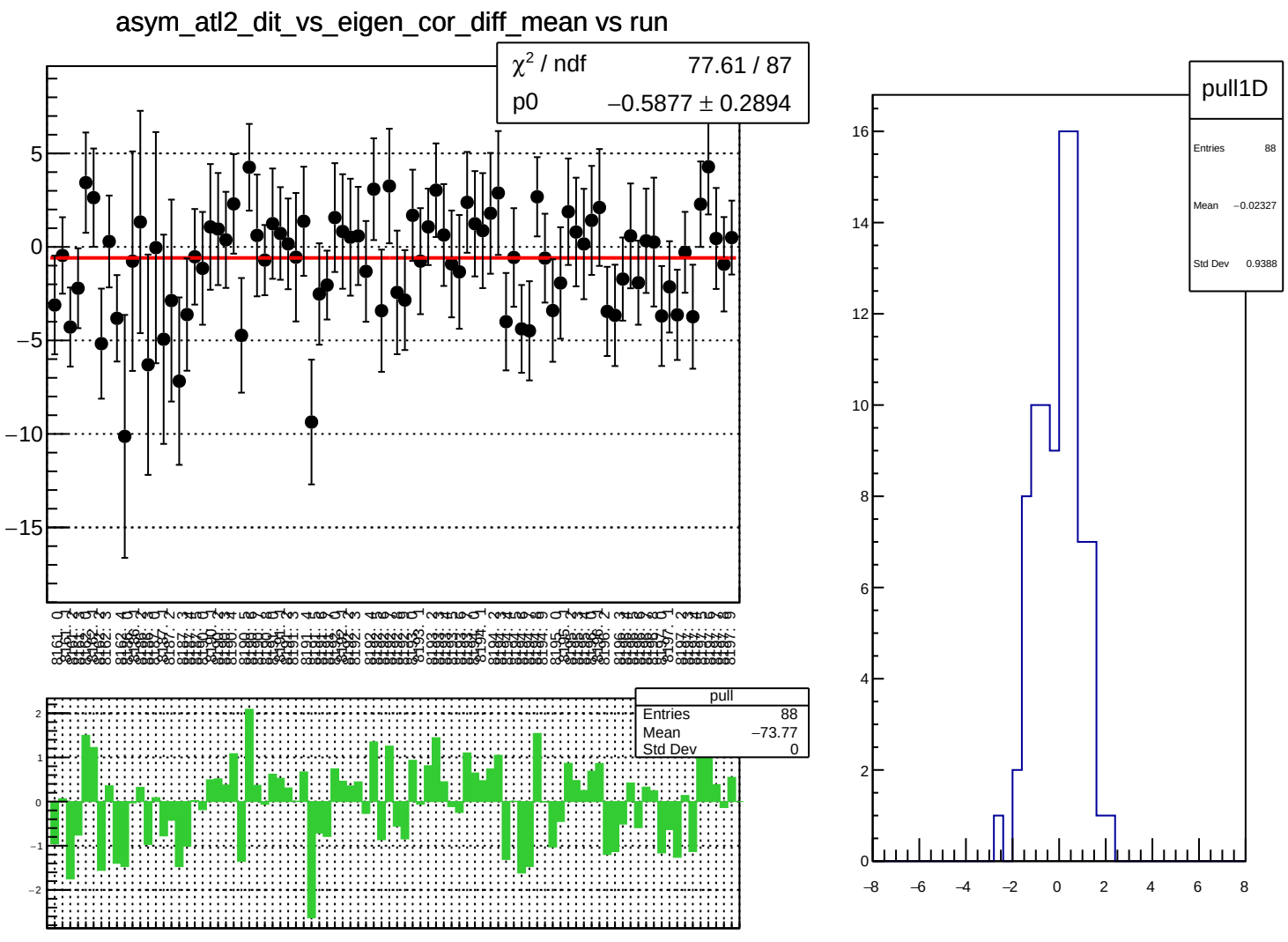

asym_atl2_rms vs run
χ² / ndf 6083 / 87
p0 1.005e+04 ± 7.798
11500
11000
10500
10000
9500
9000
8500

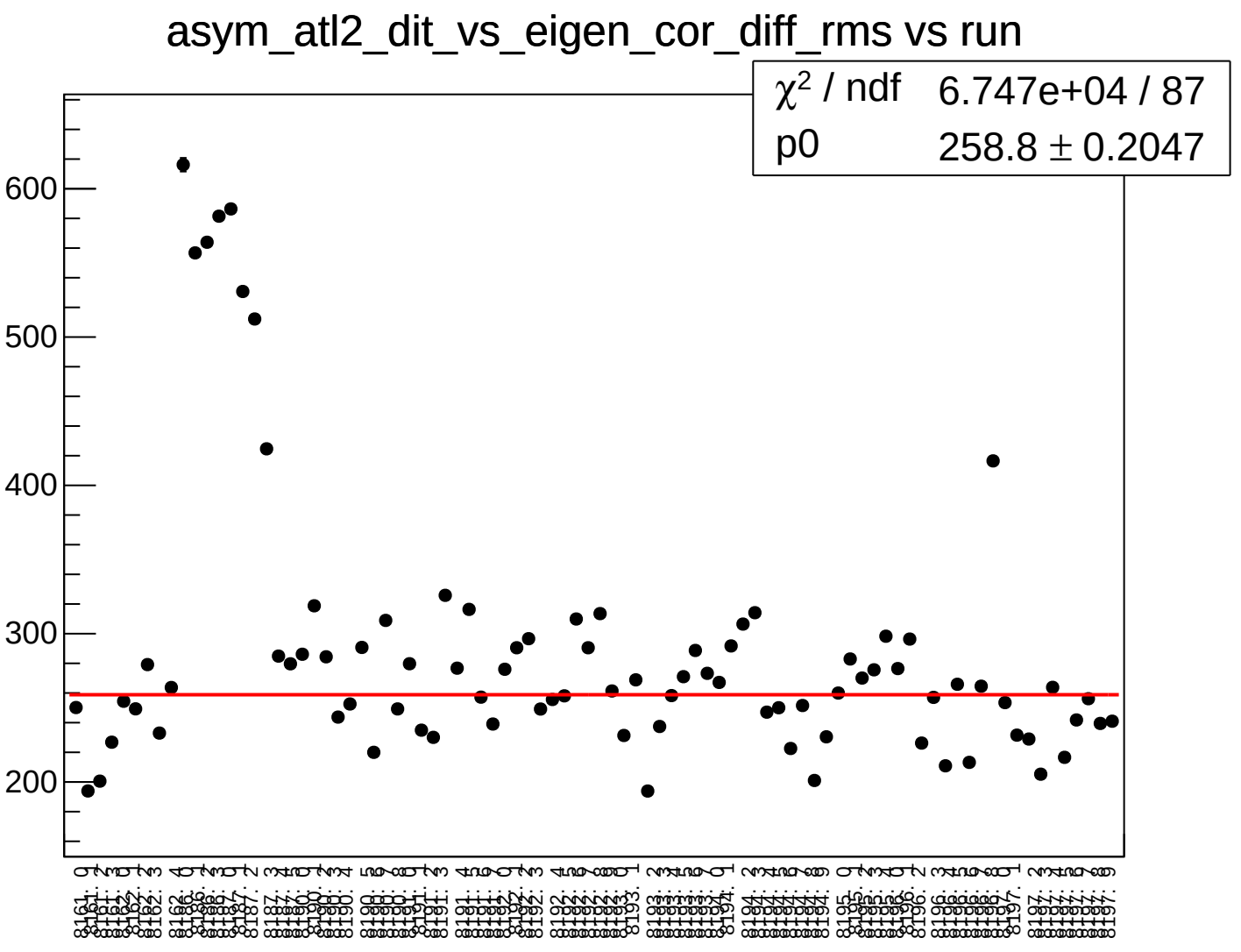

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 87.94 / 87
p0 −1.062e−12 ± 9.192e−13
pull
Entries 88
Mean 173.2
Std Dev 0
pull1D
Entries 88
Mean 0.03164
Std Dev 0.9992

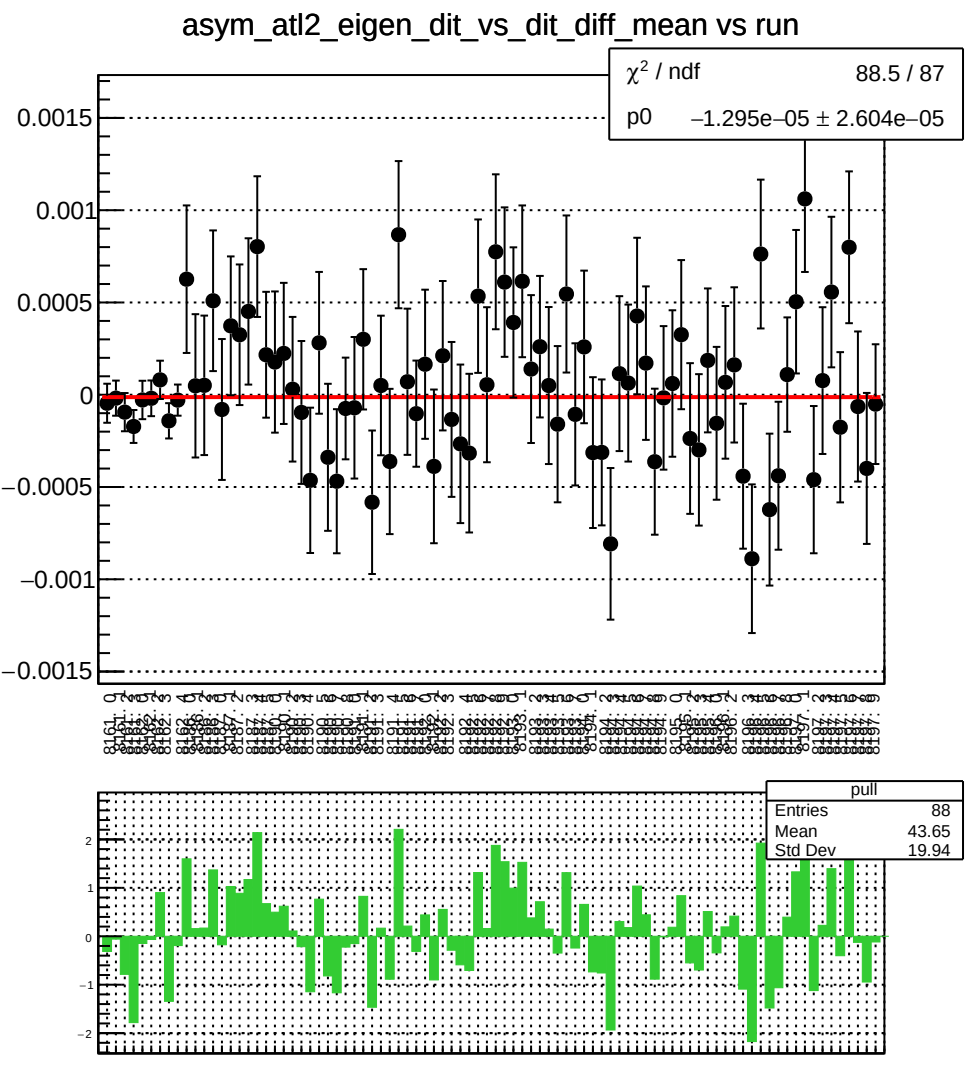

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.151e+06 / 87
p0 4.667e−10 ± 6.5e−13
1.2
1
0.8
0.6
0.4
0.2
0

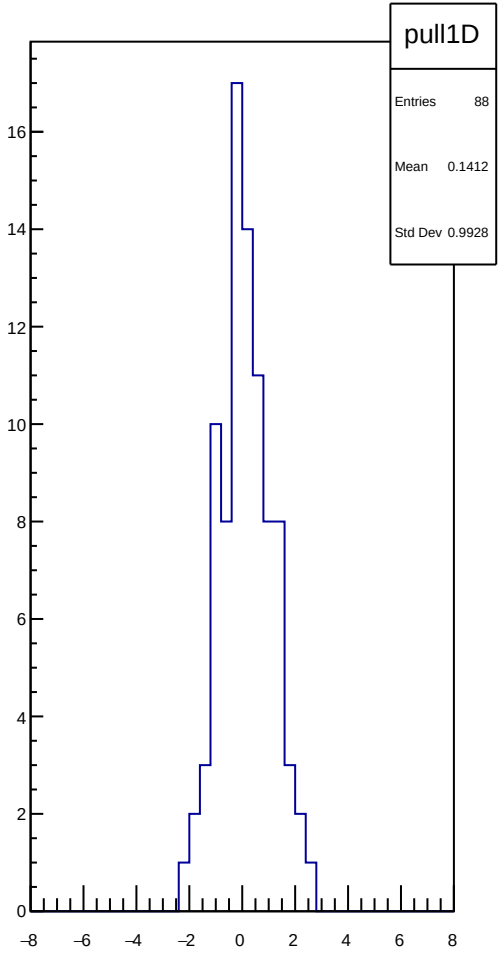

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 77.61 / 87
p0 −0.5877 ± 0.2894
pull
Entries 88
Mean −73.77
Std Dev 0
pull1D
Entries 88
Mean −0.02327
Std Dev 0.9388

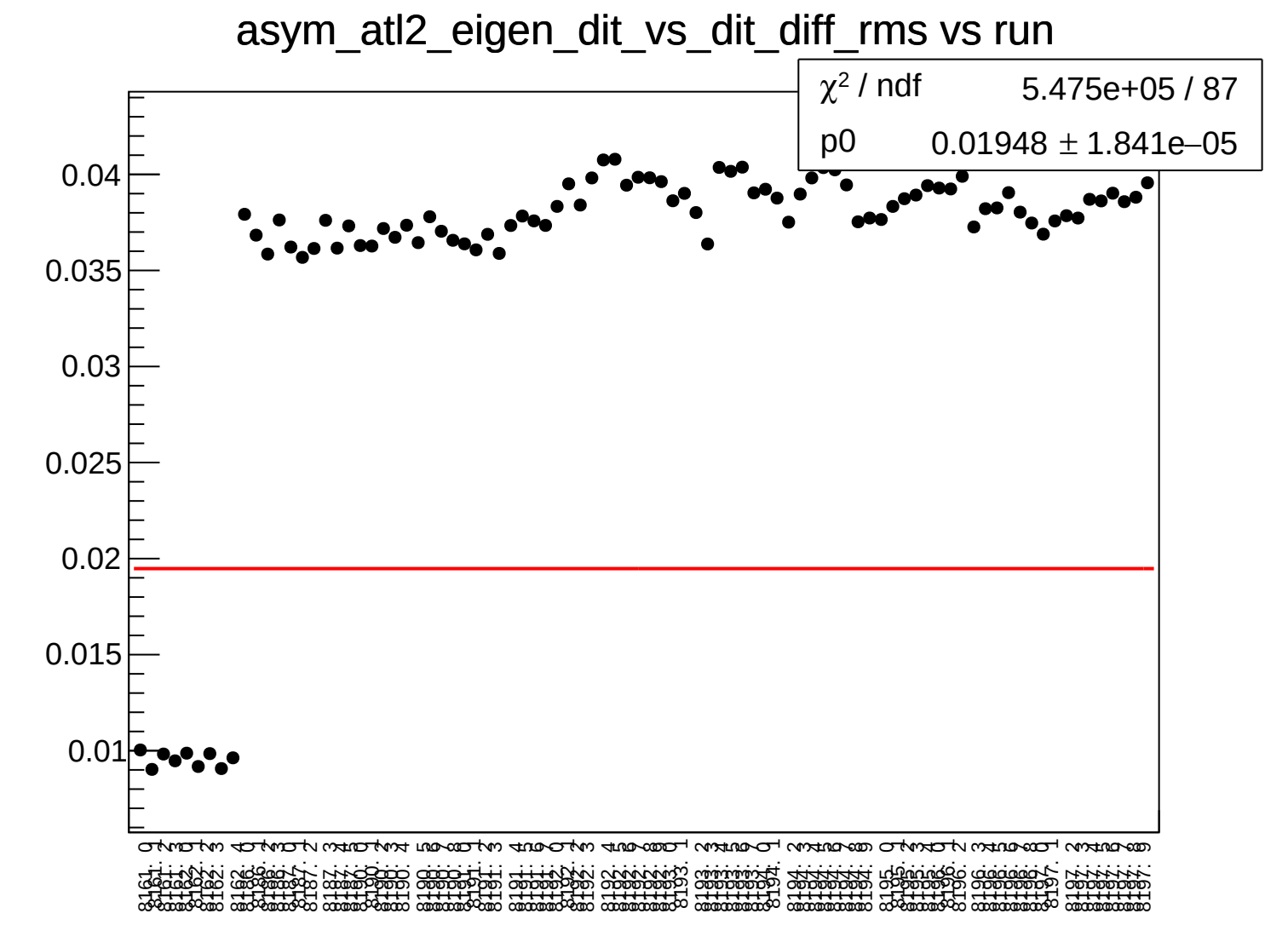

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.747e+04 / 87
p0 258.8 ± 0.2047
600
500
400
300
200

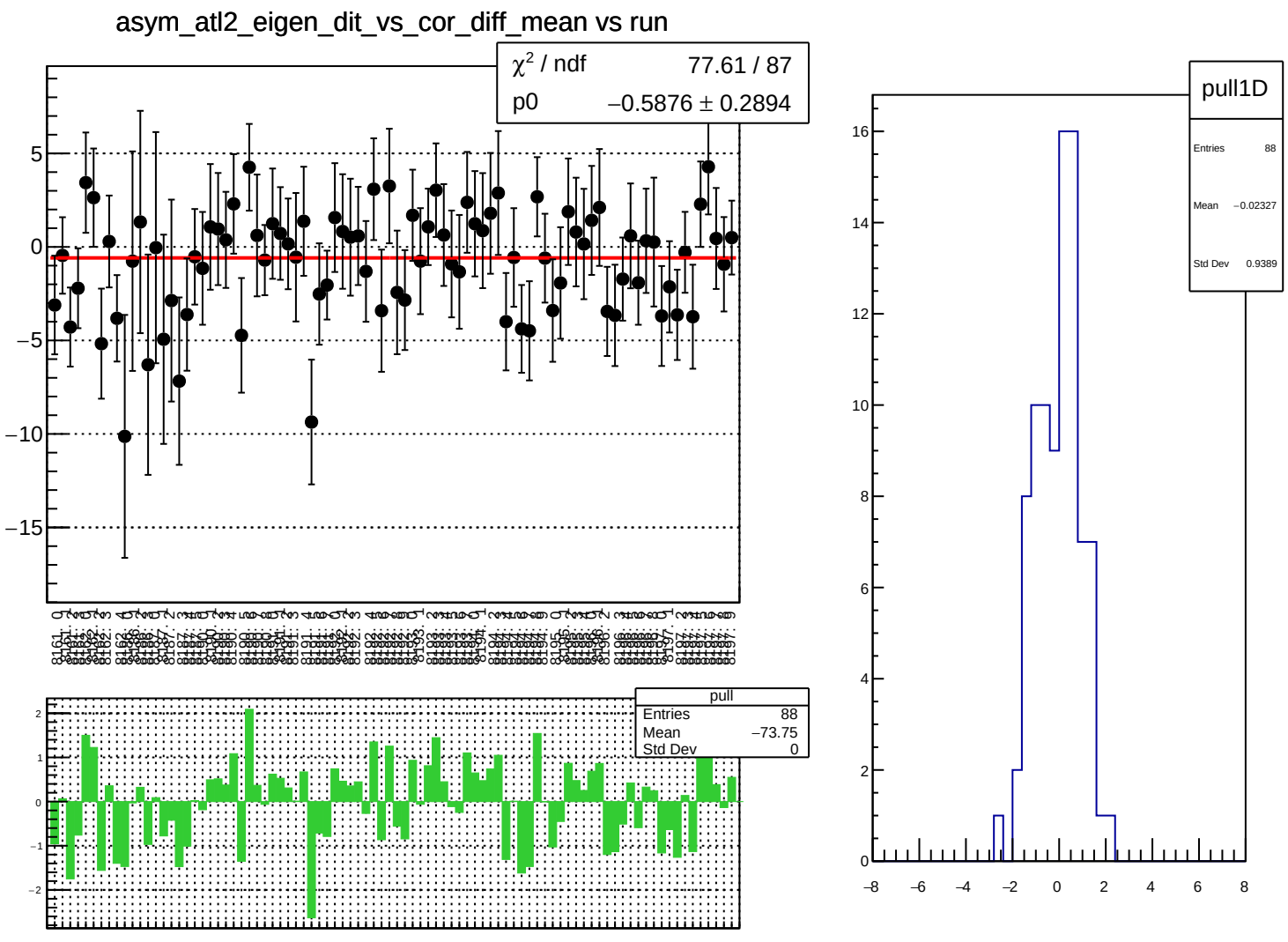

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.61 / 87
p0 −0.5877 ± 0.2894
pull
Entries 88
Mean −73.77
Std Dev 0
pull1D
Entries 88
Mean −0.02327
Std Dev 0.9388

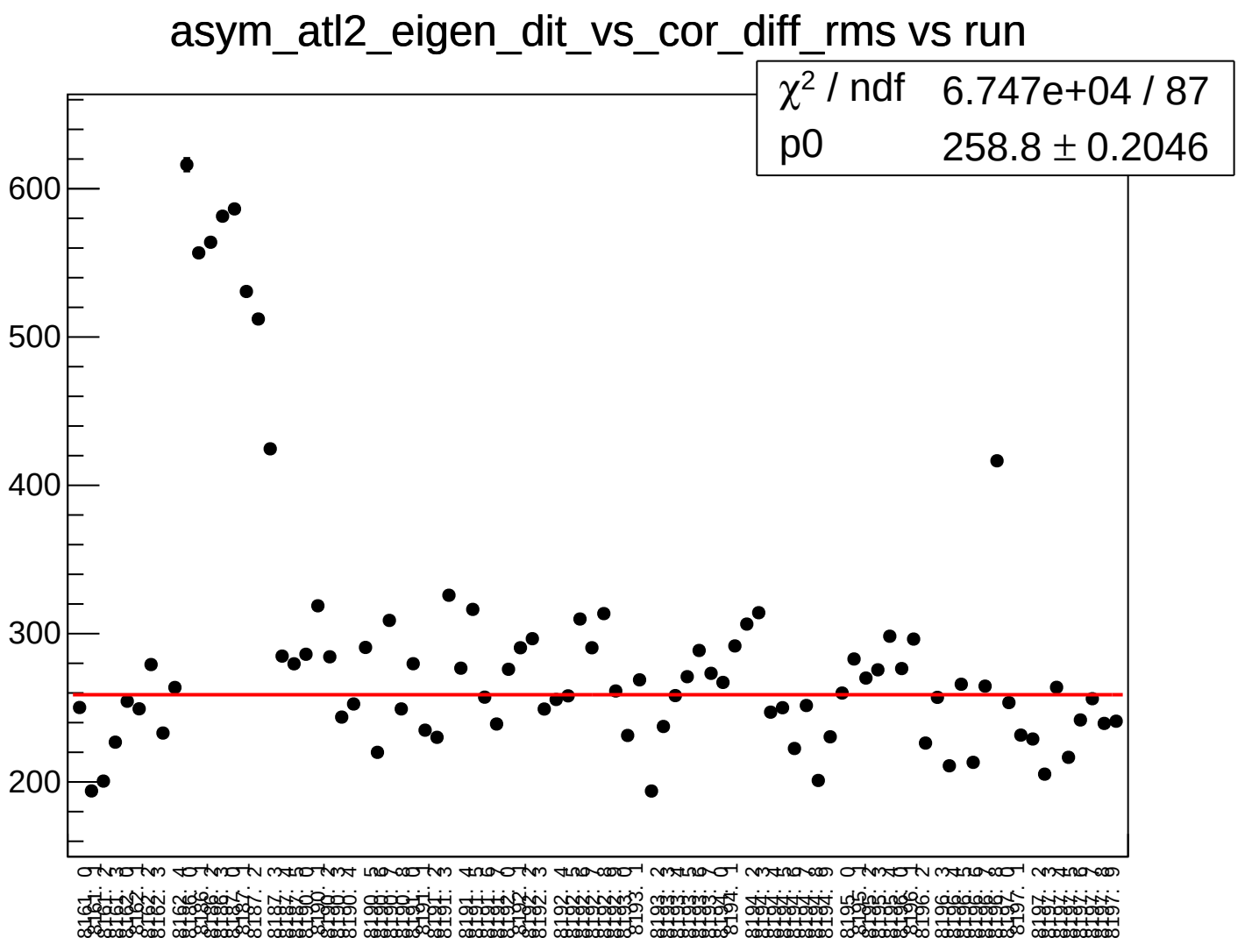

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.747e+04 / 87
p0 258.8 ± 0.2047
600
500
400
300
200

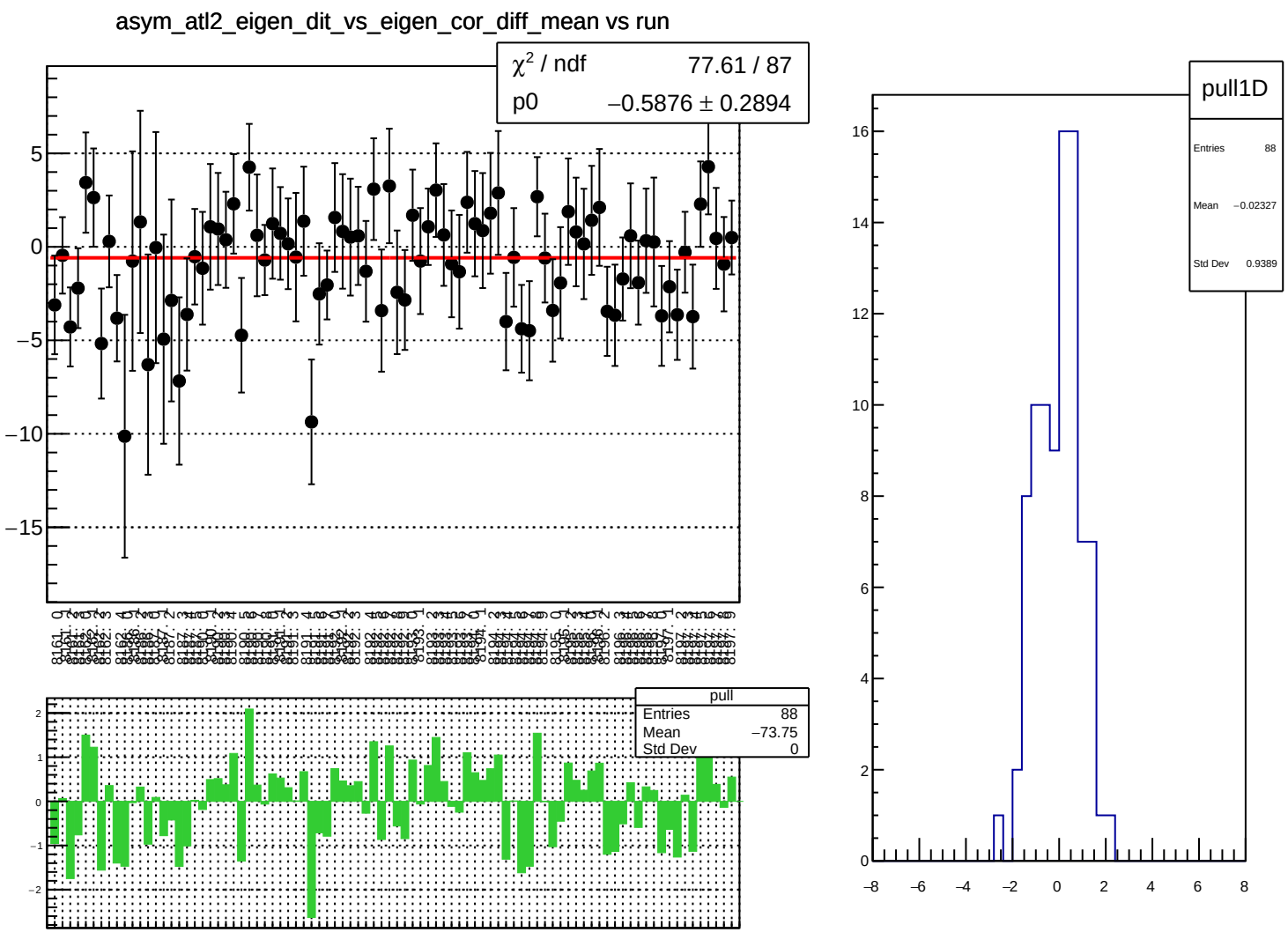

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.5 / 87
p0 −1.295e−05 ± 2.604e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 43.65
Std Dev 19.94
2
1
0
−1
−2

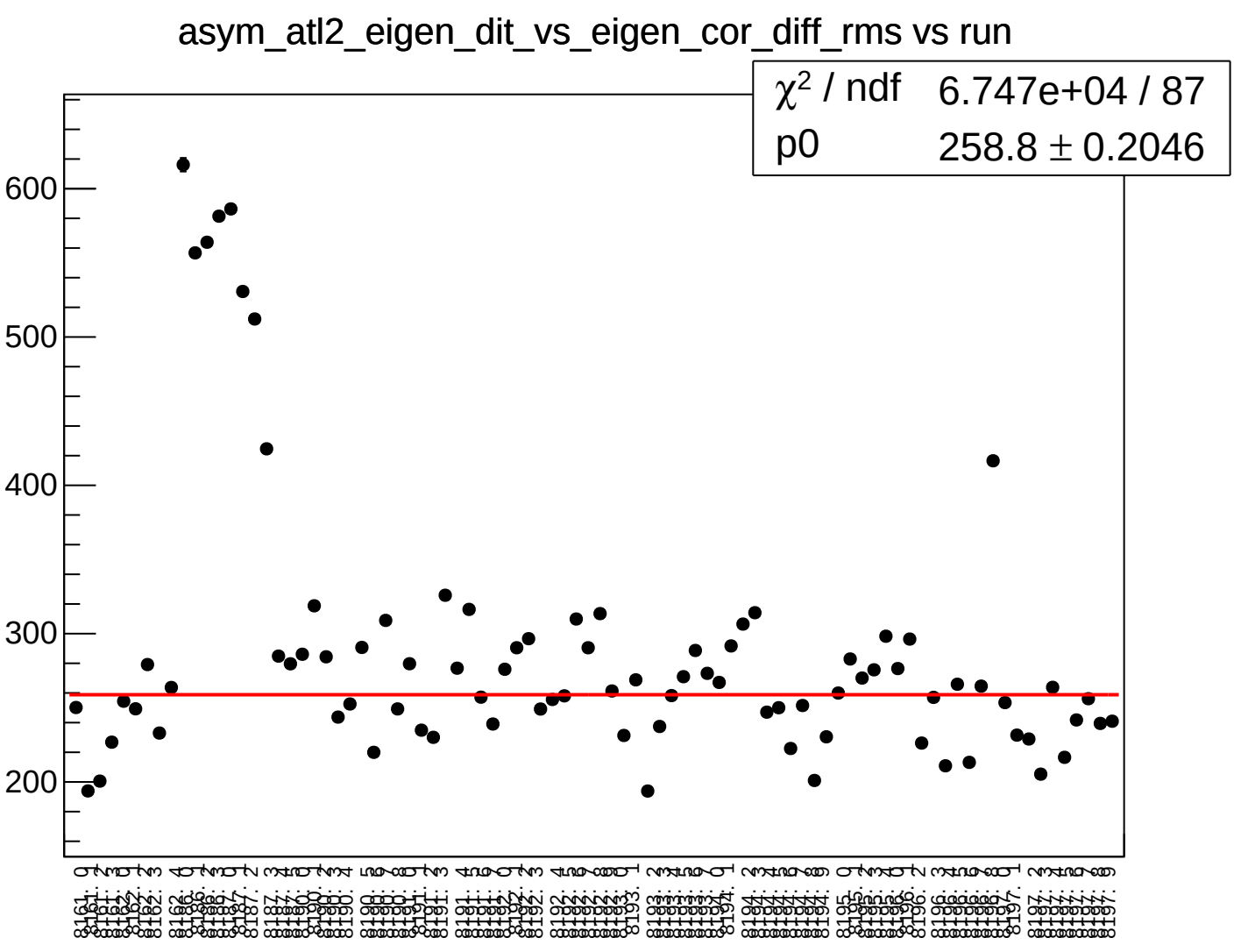

pull1D
Entries 88
Mean 0.1412
Std Dev 0.9928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

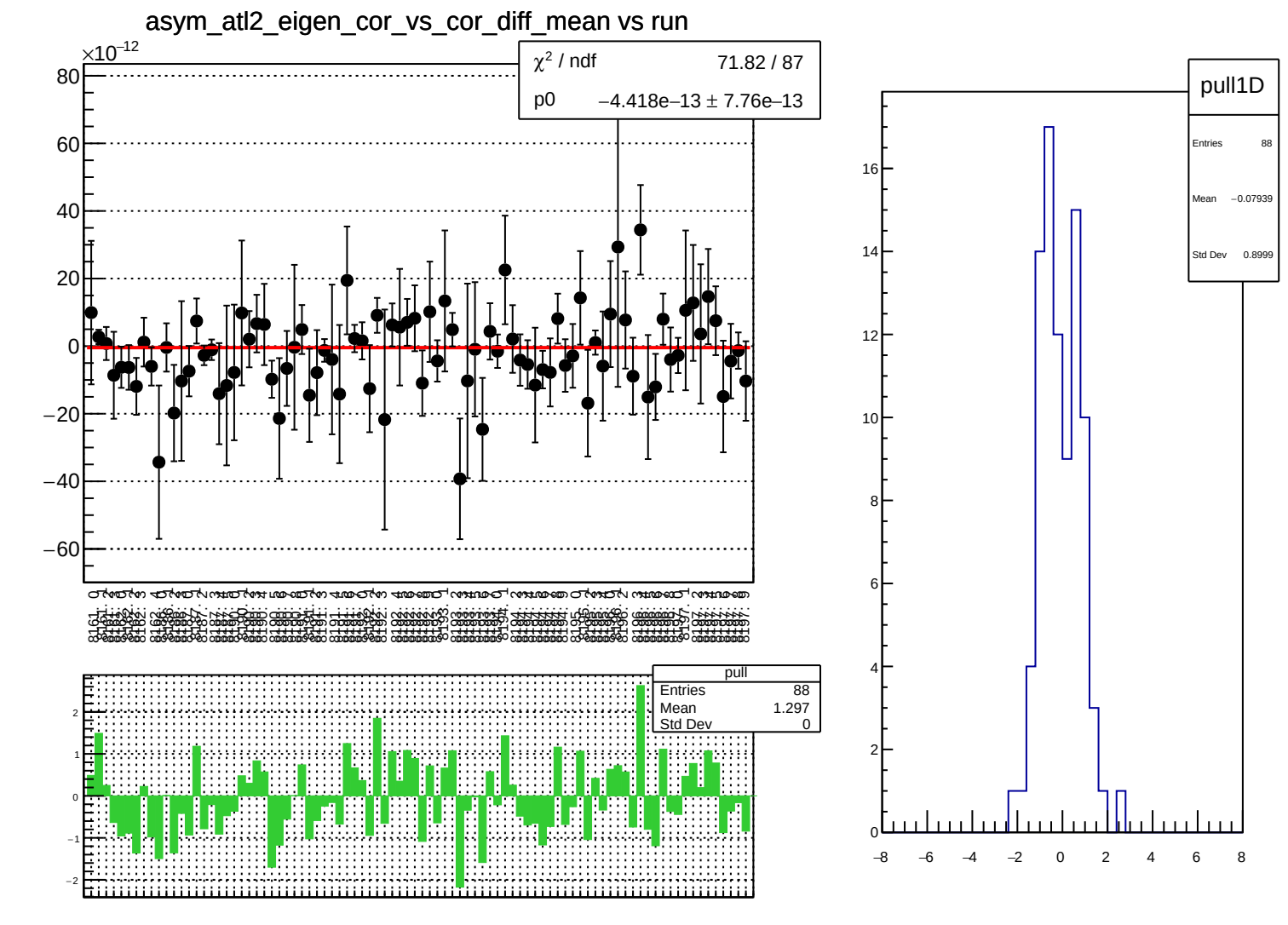

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.475e+05 / 87
p0 0.01948 ± 1.841e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

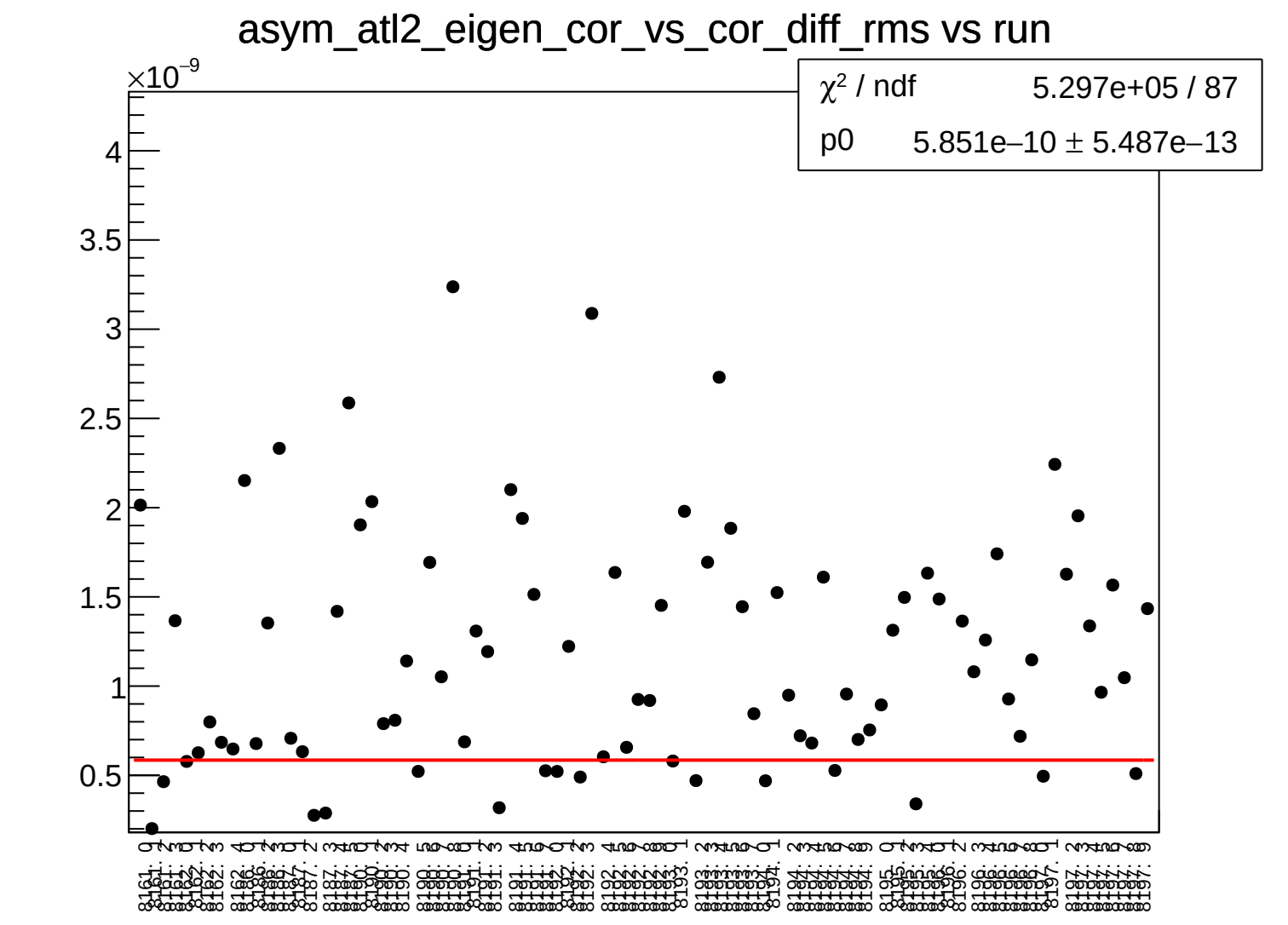

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.61 / 87
p0 −0.5876 ± 0.2894
pull
Entries 88
Mean −73.75
Std Dev 0
pull1D
Entries 88
Mean −0.02327
Std Dev 0.9389

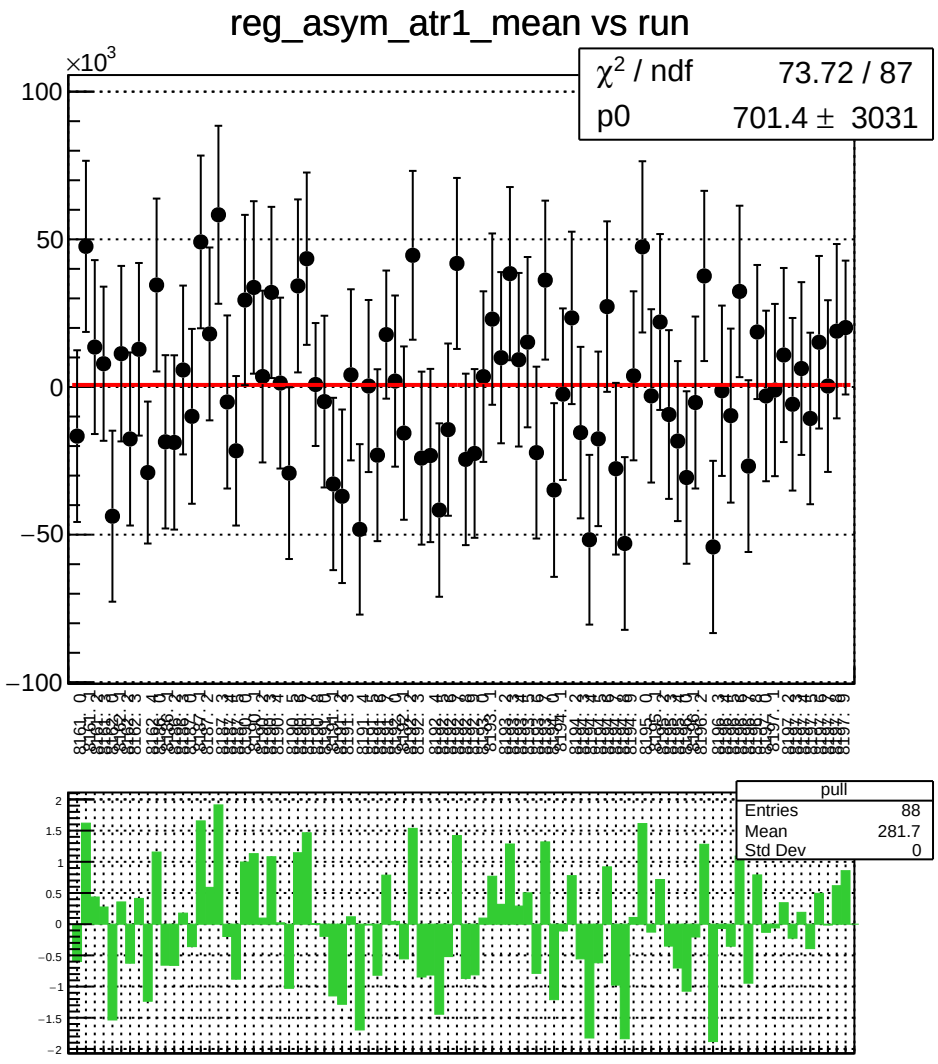

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.747e+04 / 87
p0 258.8 ± 0.2046
600
500
400
300
200

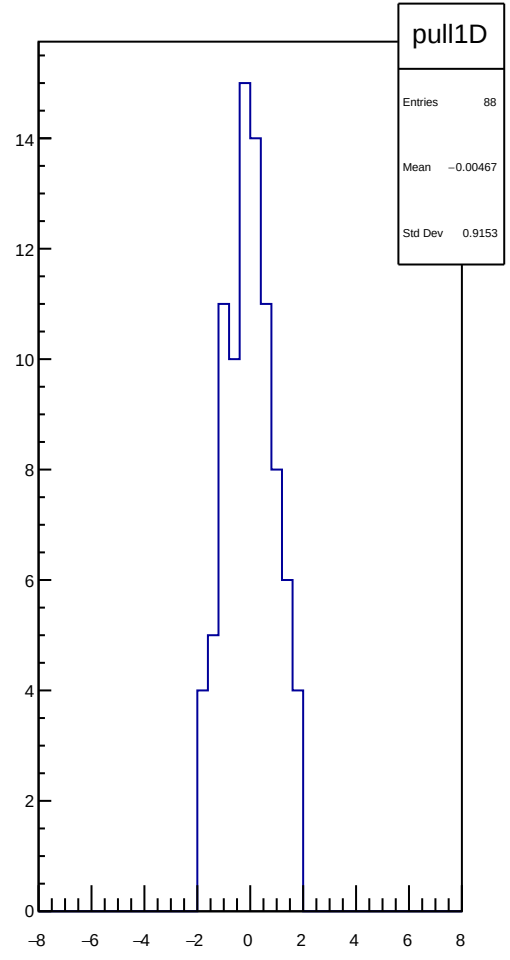

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.61 / 87
p0 −0.5876 ± 0.2894
pull
Entries 88
Mean −73.75
Std Dev 0
pull1D
Entries 88
Mean −0.02327
Std Dev 0.9389

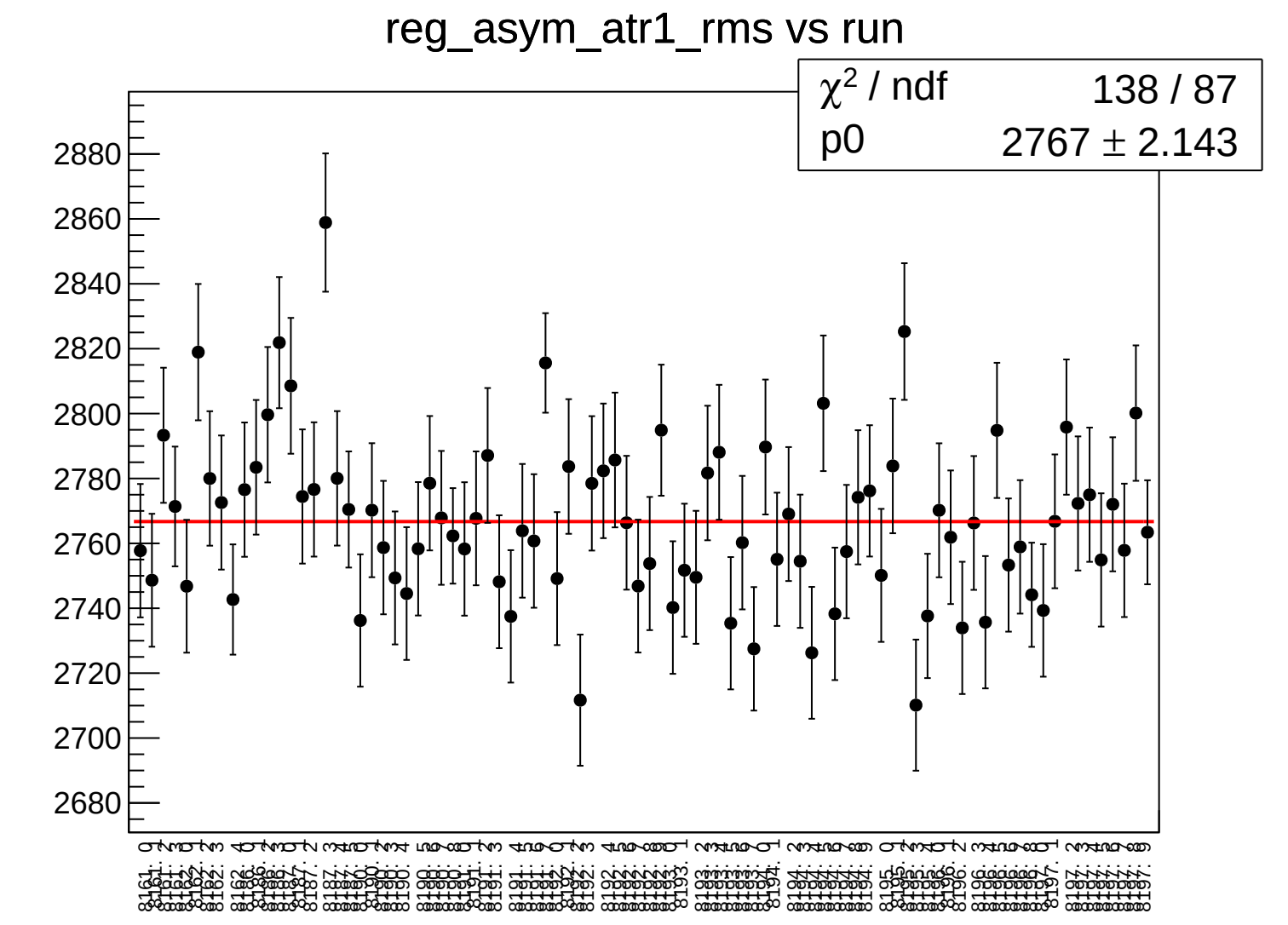

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.747e+04 / 87
p0 258.8 ± 0.2046
600
500
400
300
200

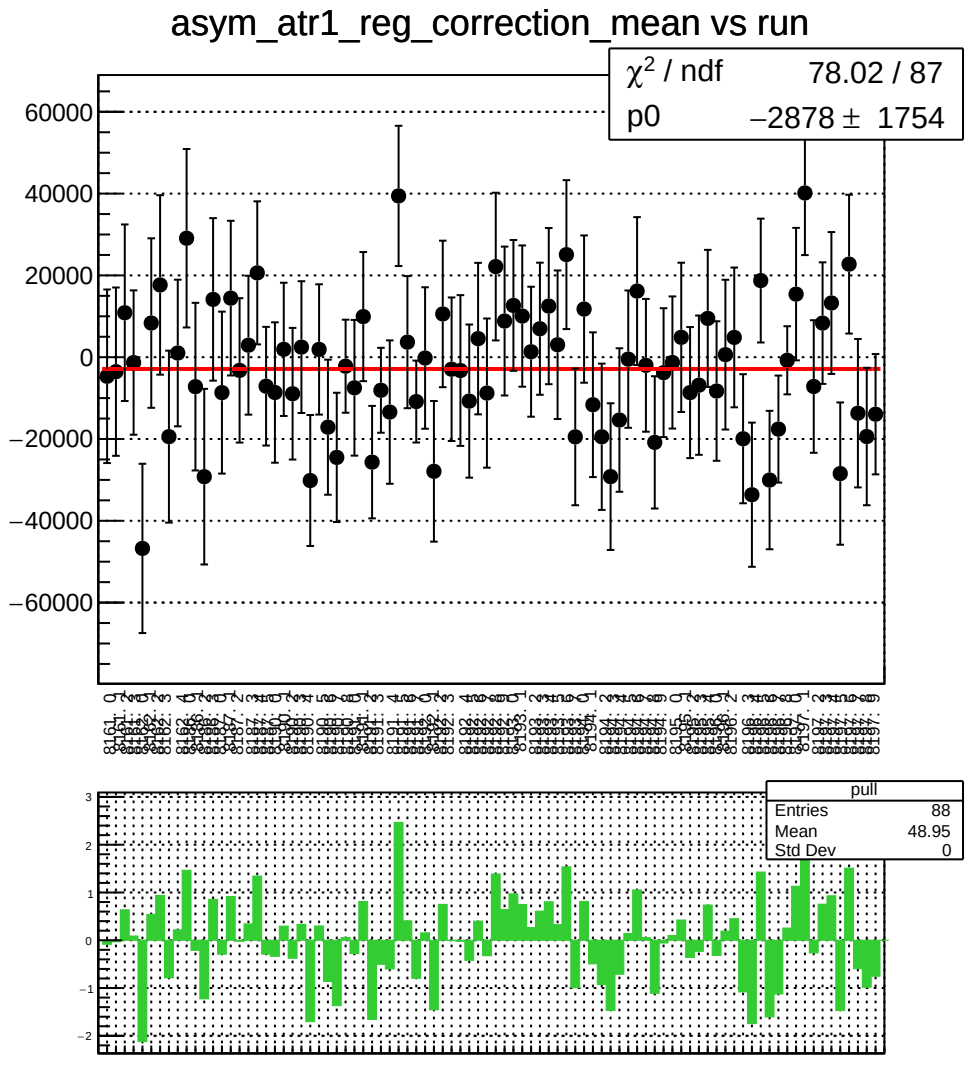

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.82 / 87
p0 −4.418e−13 ± 7.76e−13
pull
Entries 88
Mean 1.297
Std Dev 0
pull1D
Entries 88
Mean −0.07939
Std Dev 0.8999

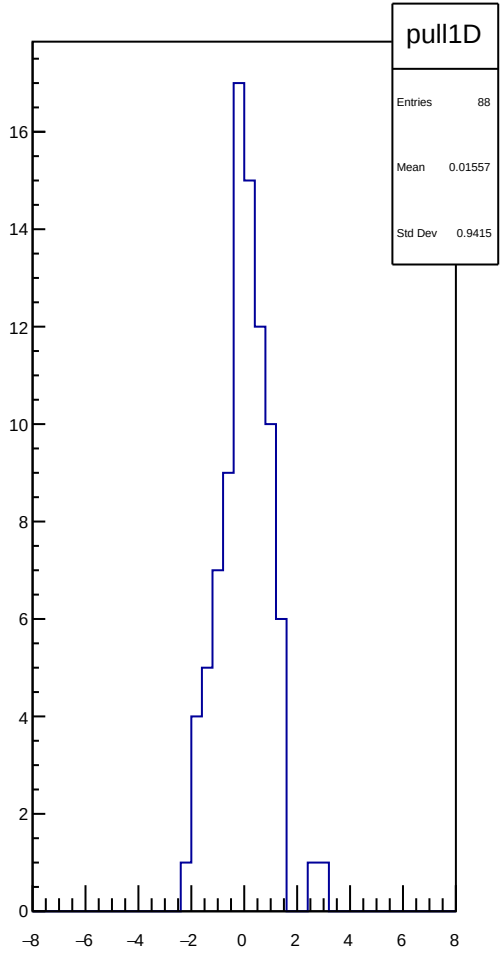

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.297e+05 / 87
p0 5.851e−10 ± 5.487e−13
4
3.5
3
2.5
2
1.5
1
0.5

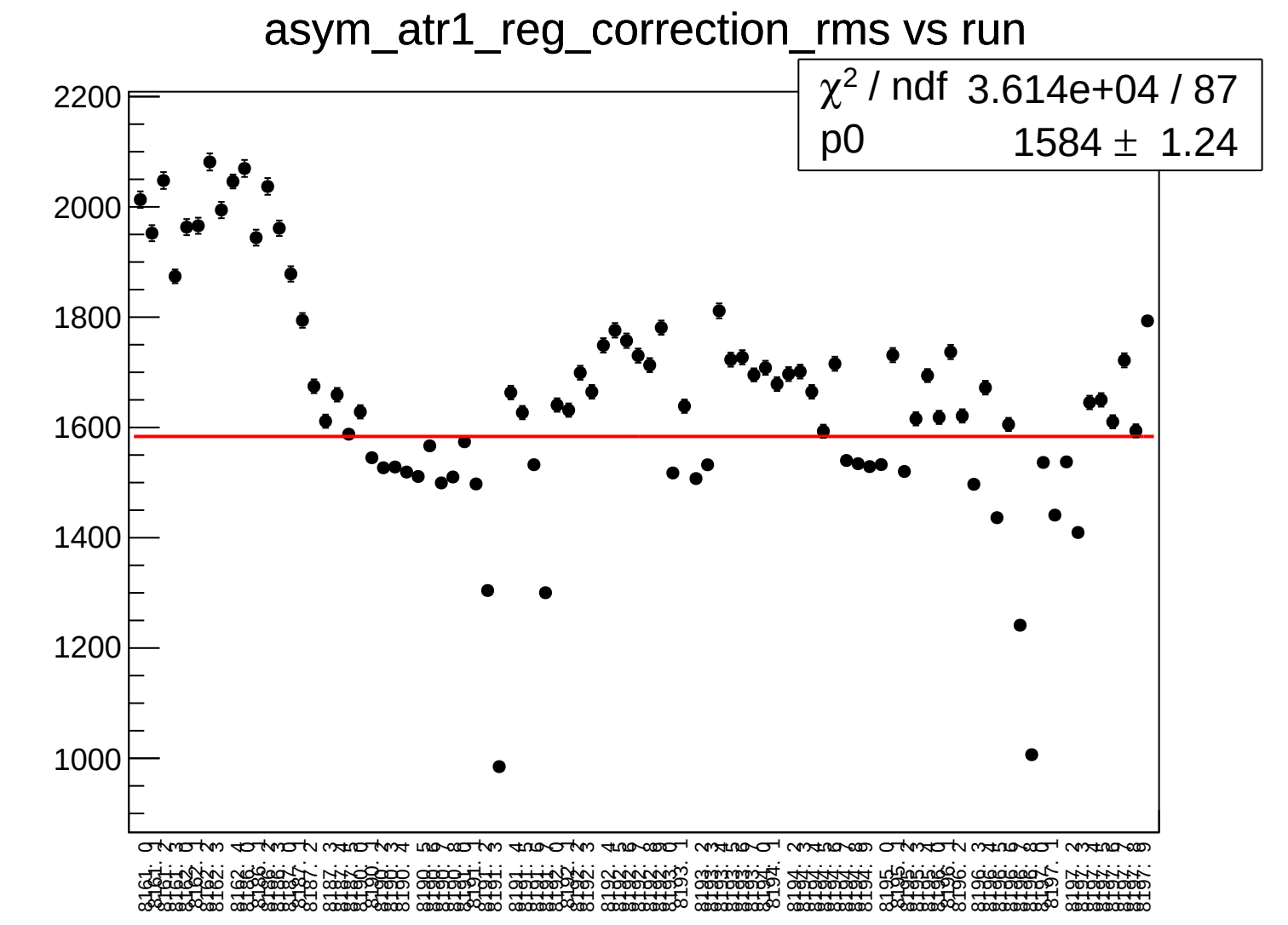

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 73.72 / 87
p0 701.4 ± 3031
pull
Entries 88
Mean 281.7
Std Dev 0

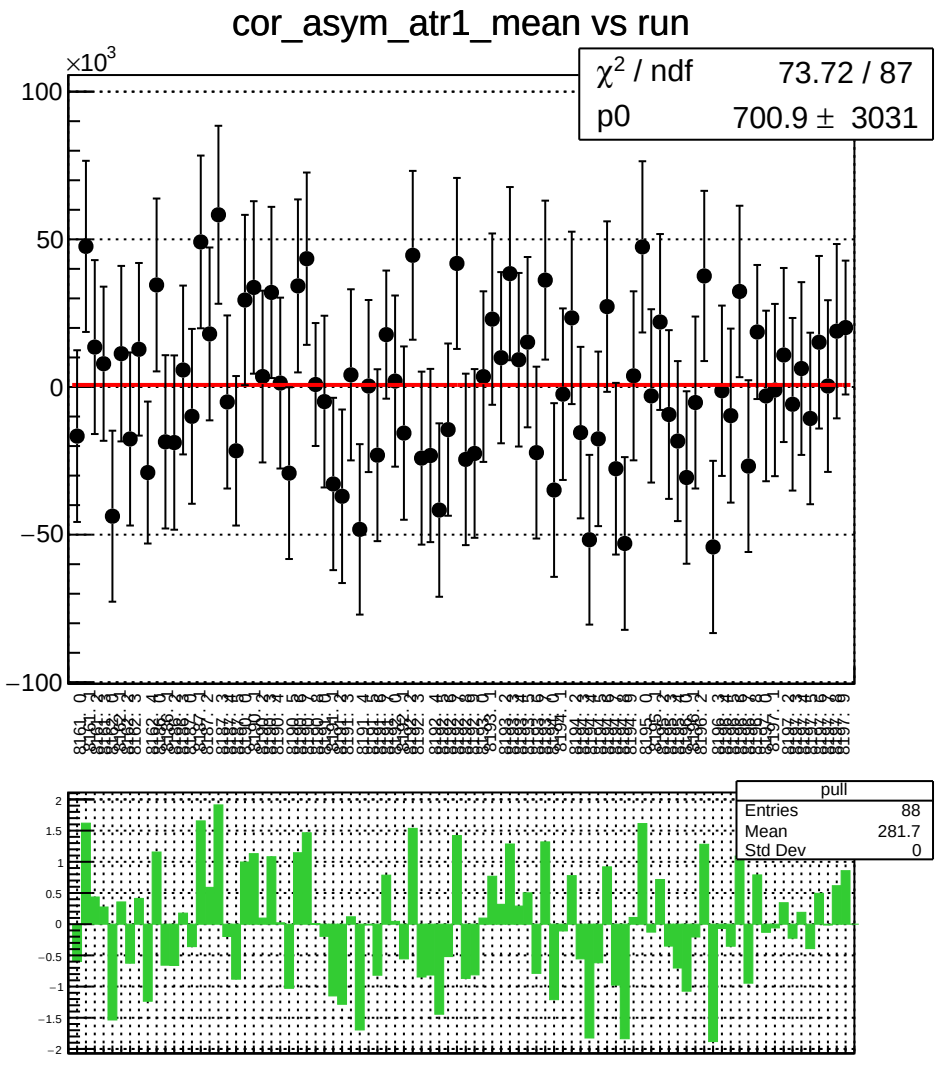

pull1D
Entries 88
Mean −0.00467
Std Dev 0.9153

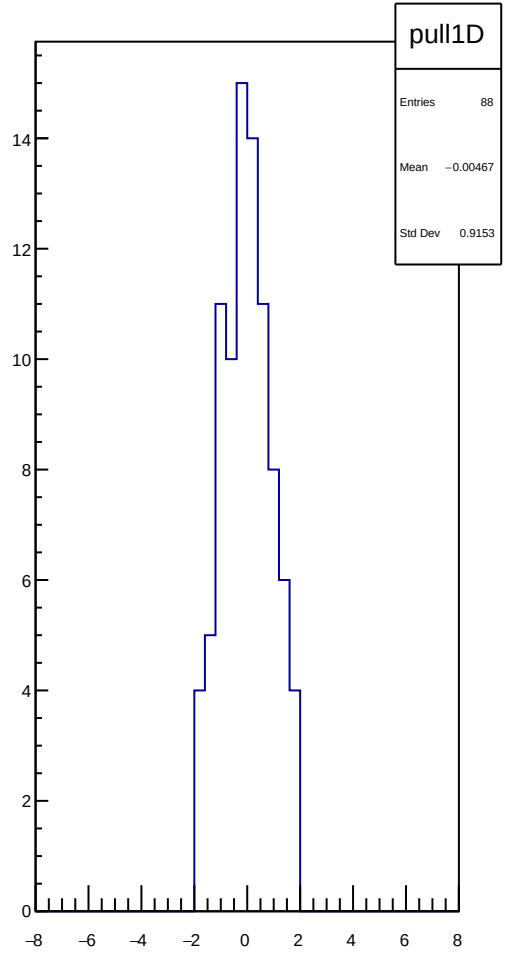

reg_asym_atr1_rms vs run
χ² / ndf 138 / 87
p0 2767 ± 2.143
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

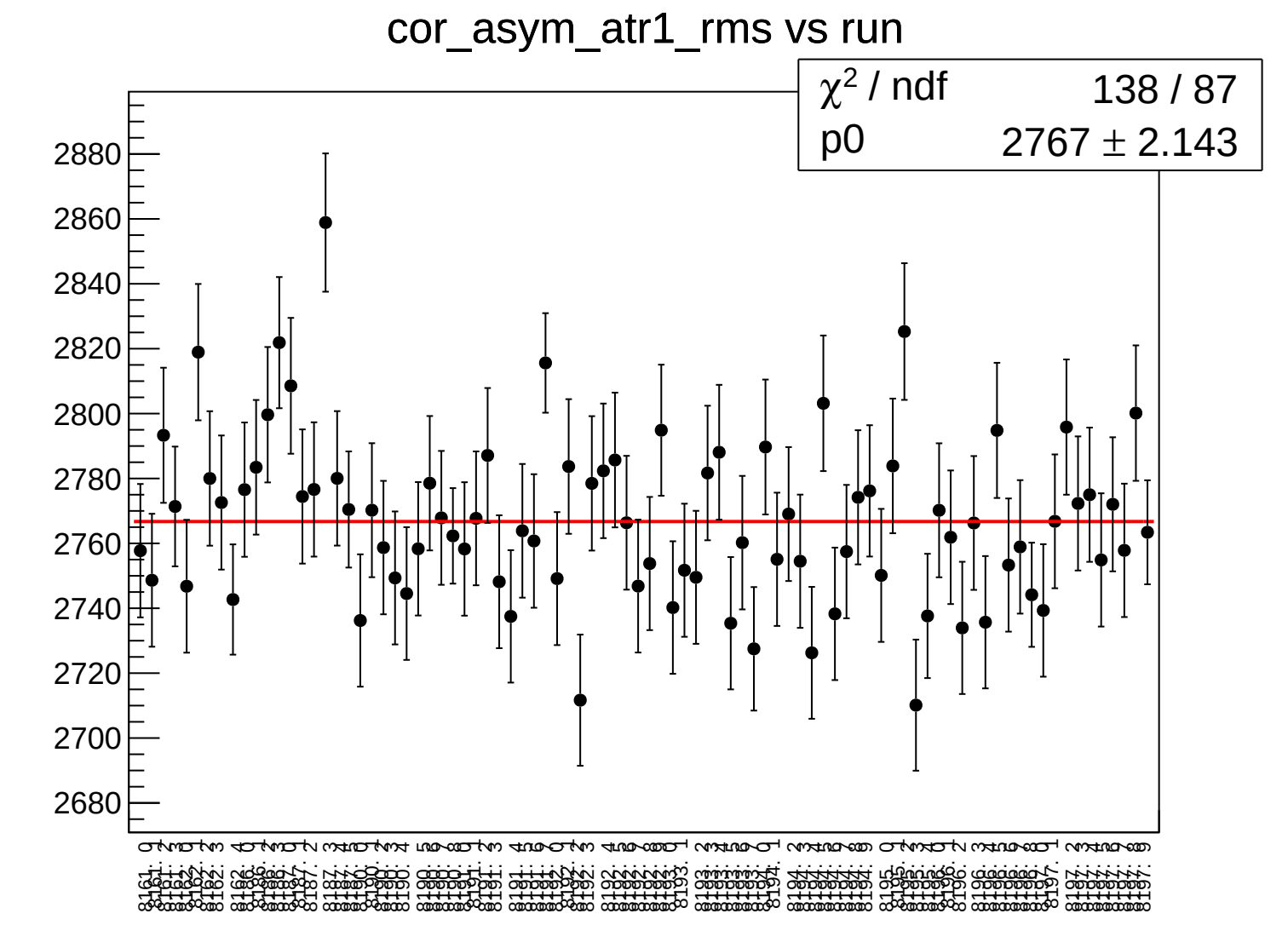

asym_atr1_reg_correction_mean vs run
χ² / ndf 78.02 / 87
p0 −2878 ± 1754
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 48.95
Std Dev 0
3
2
1
0
−1
−2

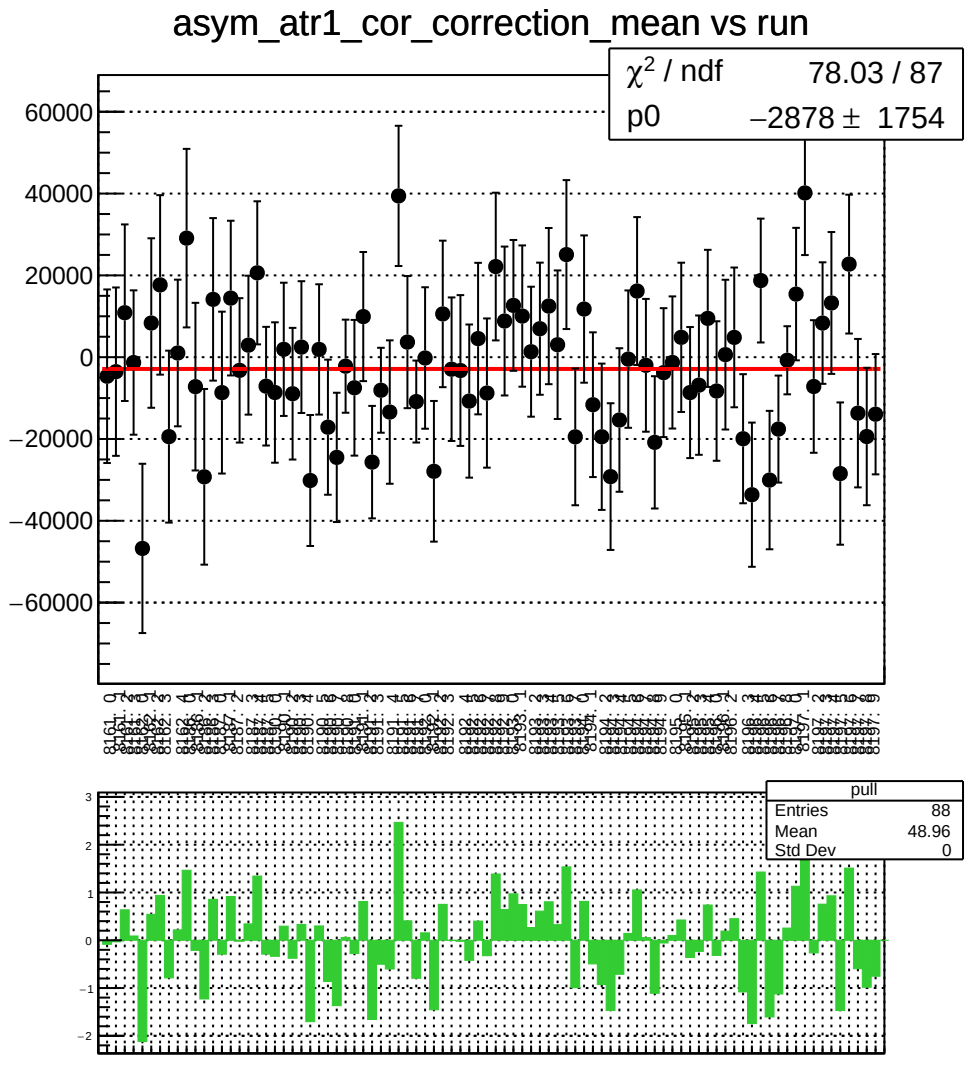

pull1D
Entries 88
Mean 0.01557
Std Dev 0.9415
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

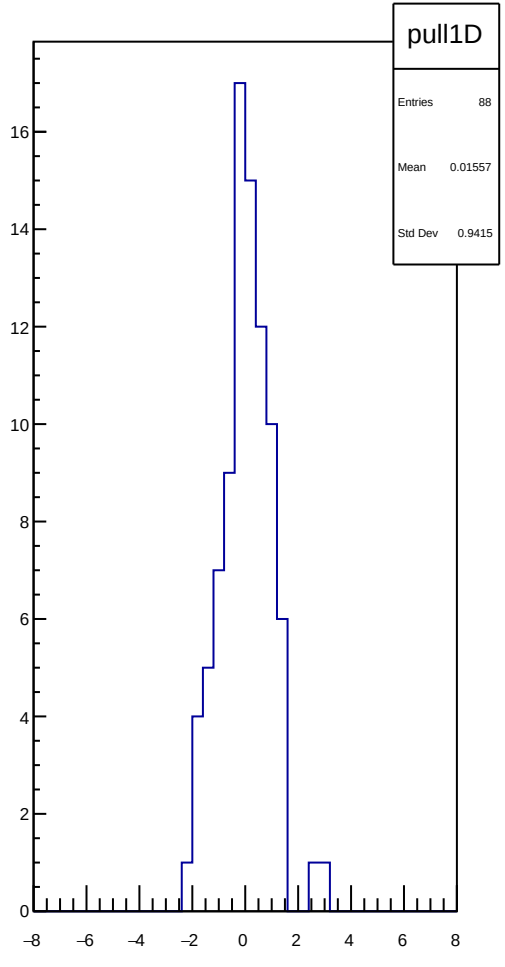

asym_atr1_reg_correction_rms vs run
χ² / ndf 3.614e+04 / 87
p0 1584 ± 1.24
2200
2000
1800
1600
1400
1200
1000

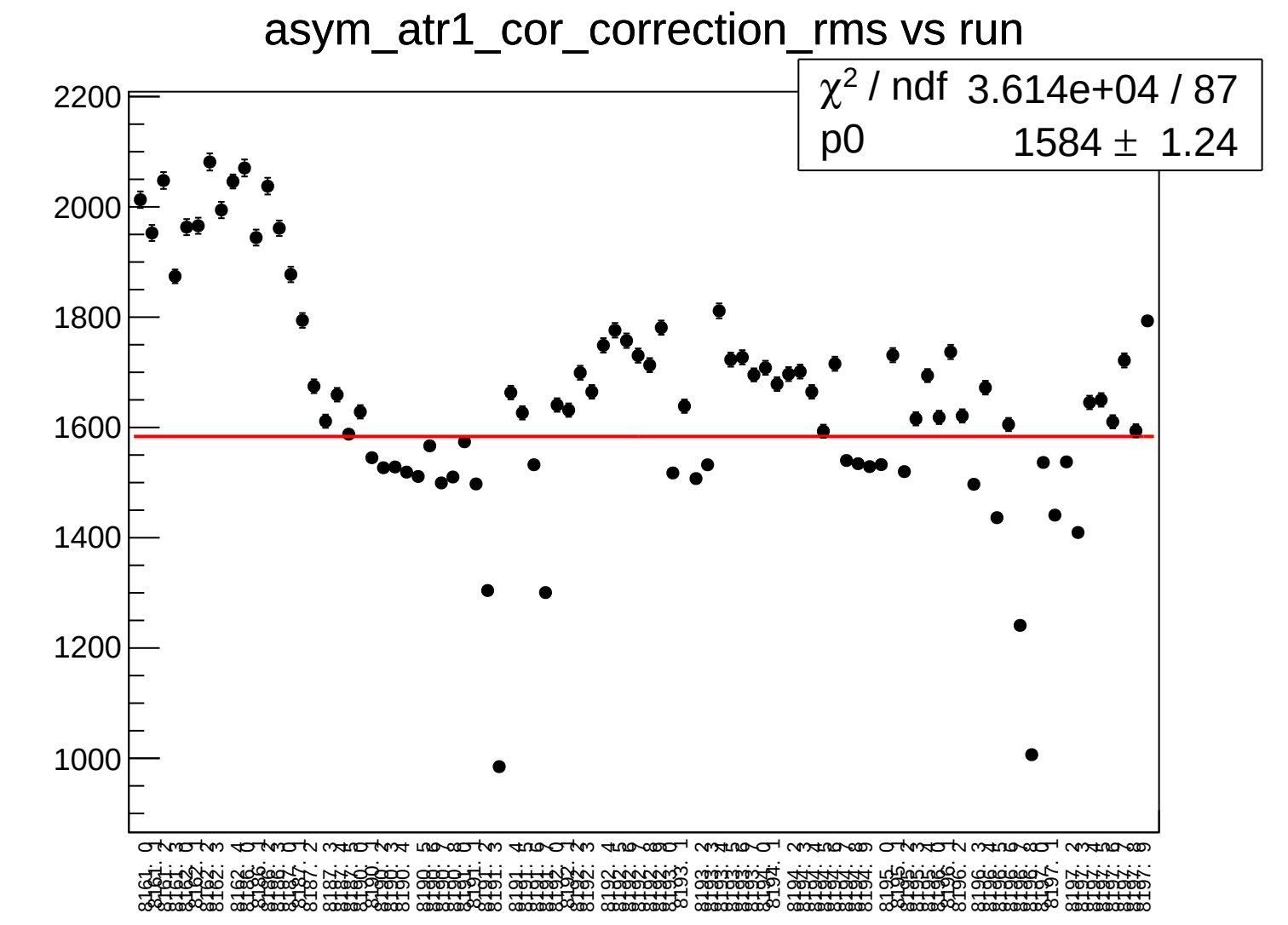

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 73.72 / 87
p0 700.9 ± 3031
100
50
0
−50
−100
pull
Entries 88
Mean 281.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

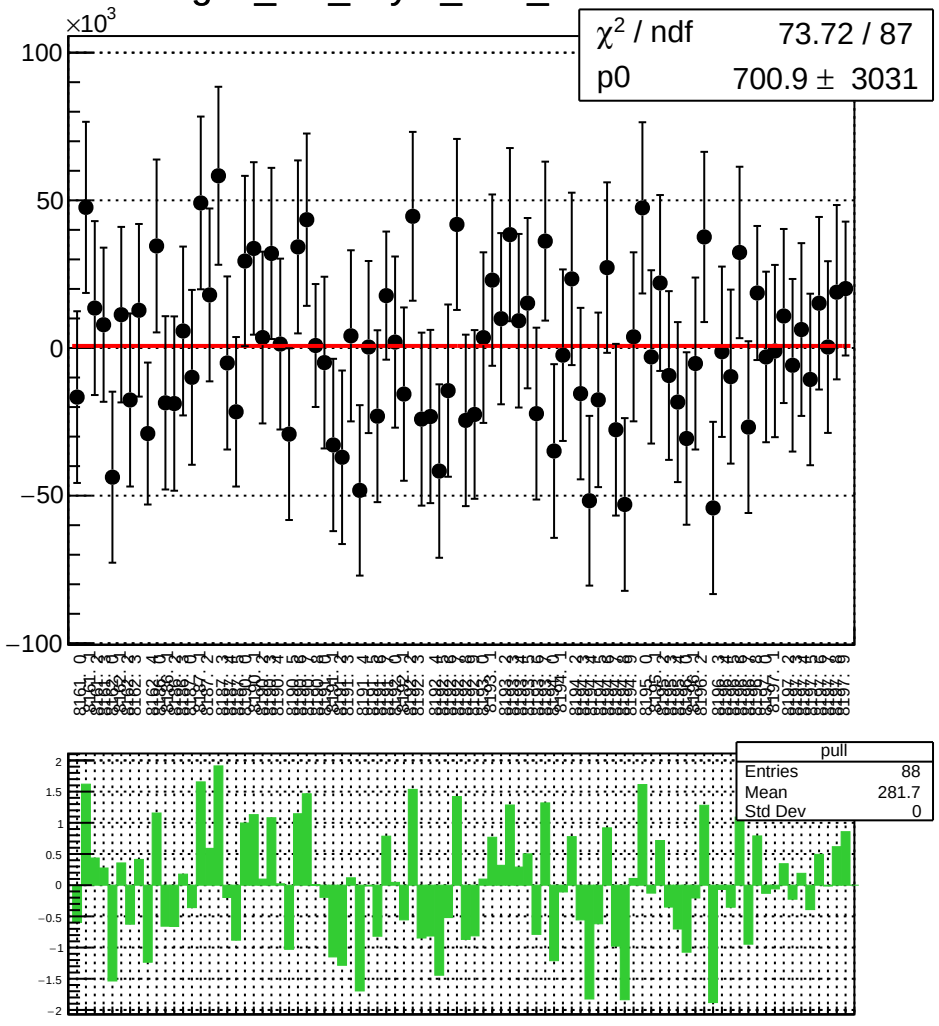

pull1D
Entries 88
Mean −0.00467
Std Dev 0.9153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

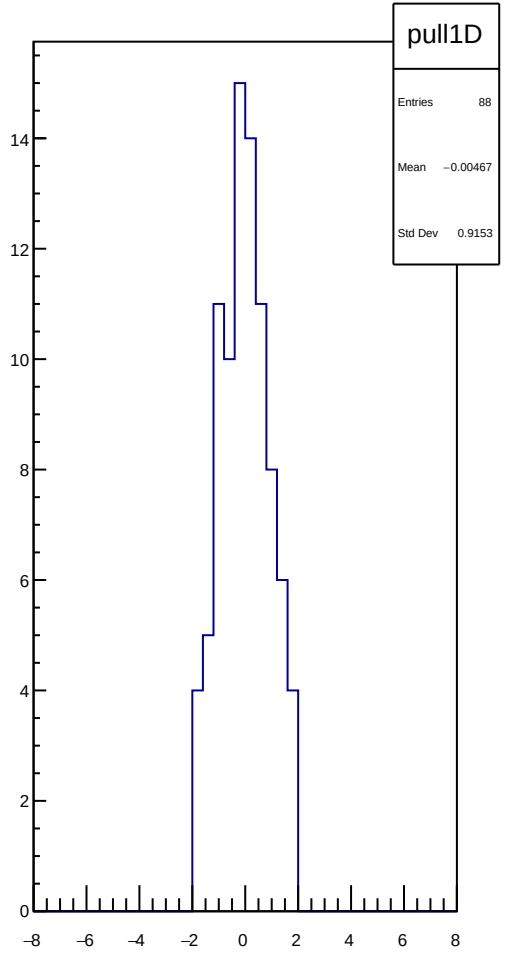

cor_asym_atr1_rms vs run
χ² / ndf 138 / 87
p0 2767 ± 2.143
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

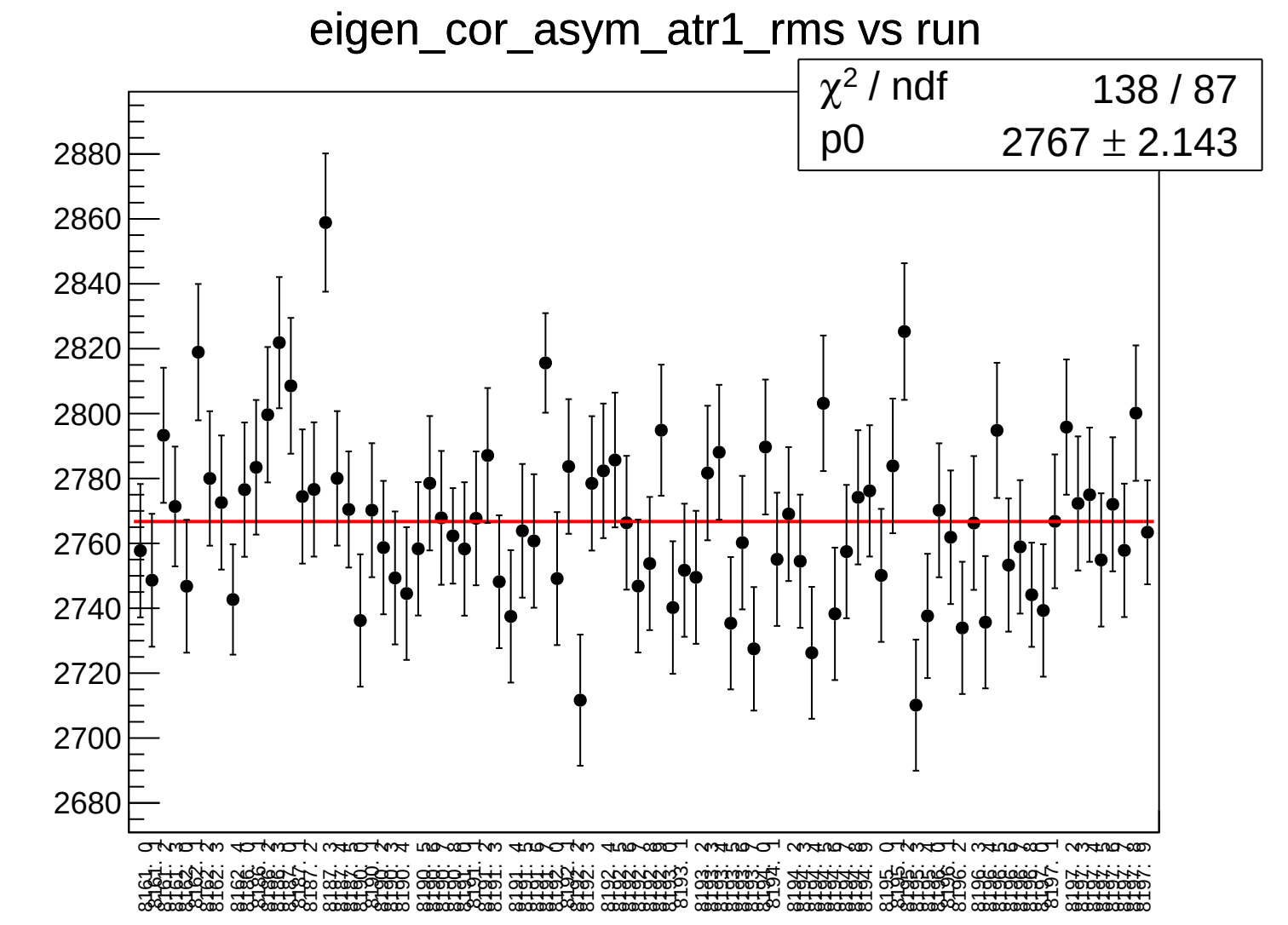

asym_atr1_cor_correction_mean vs run
χ² / ndf 78.03 / 87
p0 −2878 ± 1754
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 48.96
Std Dev 0
3
2
1
0
−1
−2

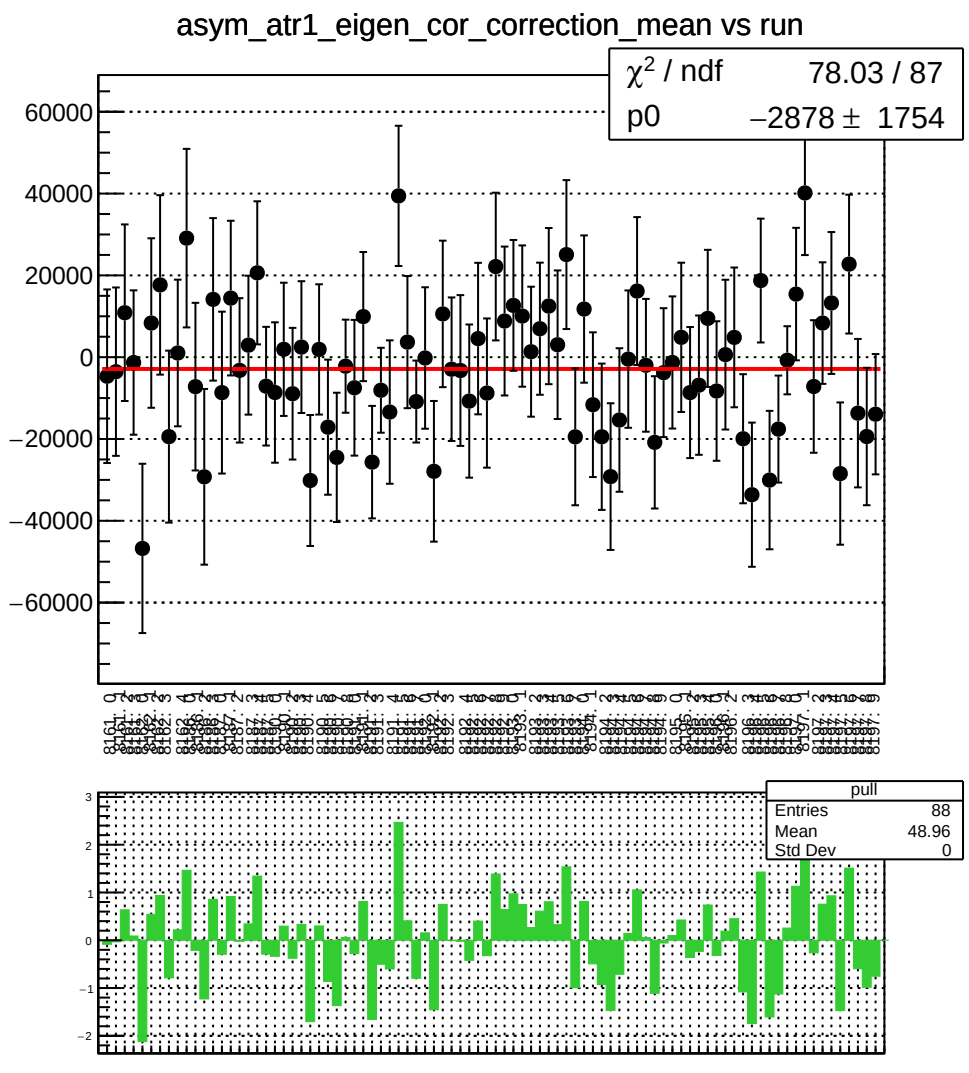

pull1D
Entries 88
Mean 0.01557
Std Dev 0.9415
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

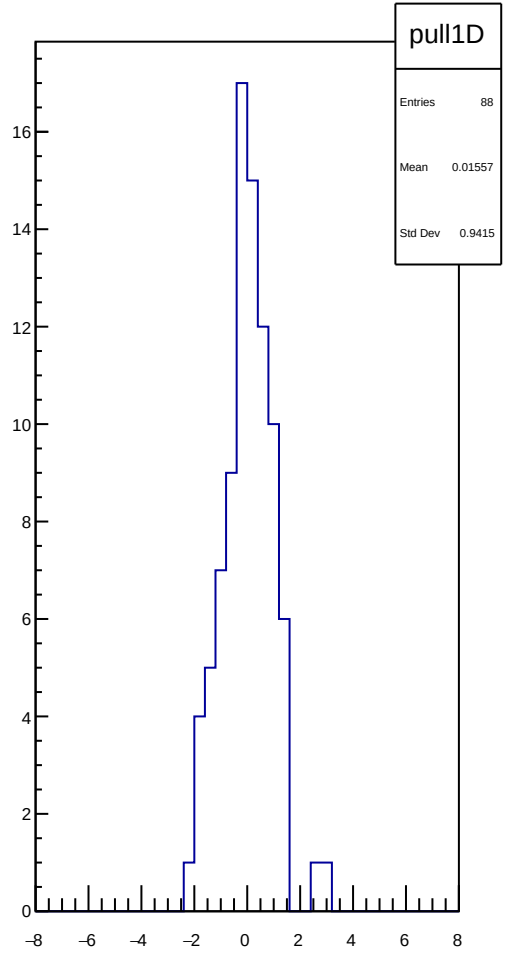

asym_atr1_cor_correction_rms vs run
χ² / ndf 3.614e+04 / 87
p0 1584 ± 1.24
2200
2000
1800
1600
1400
1200
1000

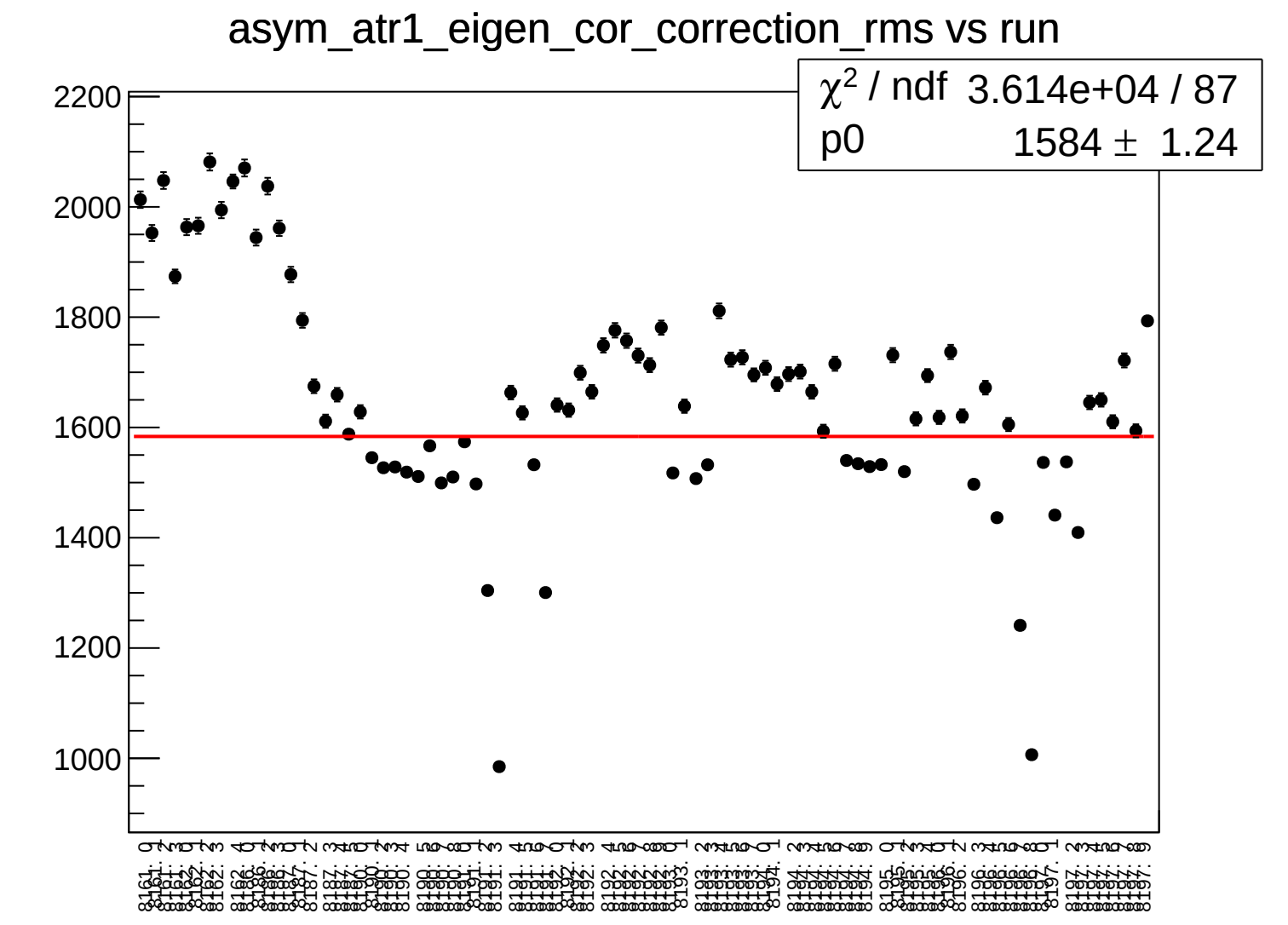

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 73.72 / 87
p0 700.9 ± 3031
pull
Entries 88
Mean 281.7
Std Dev 0

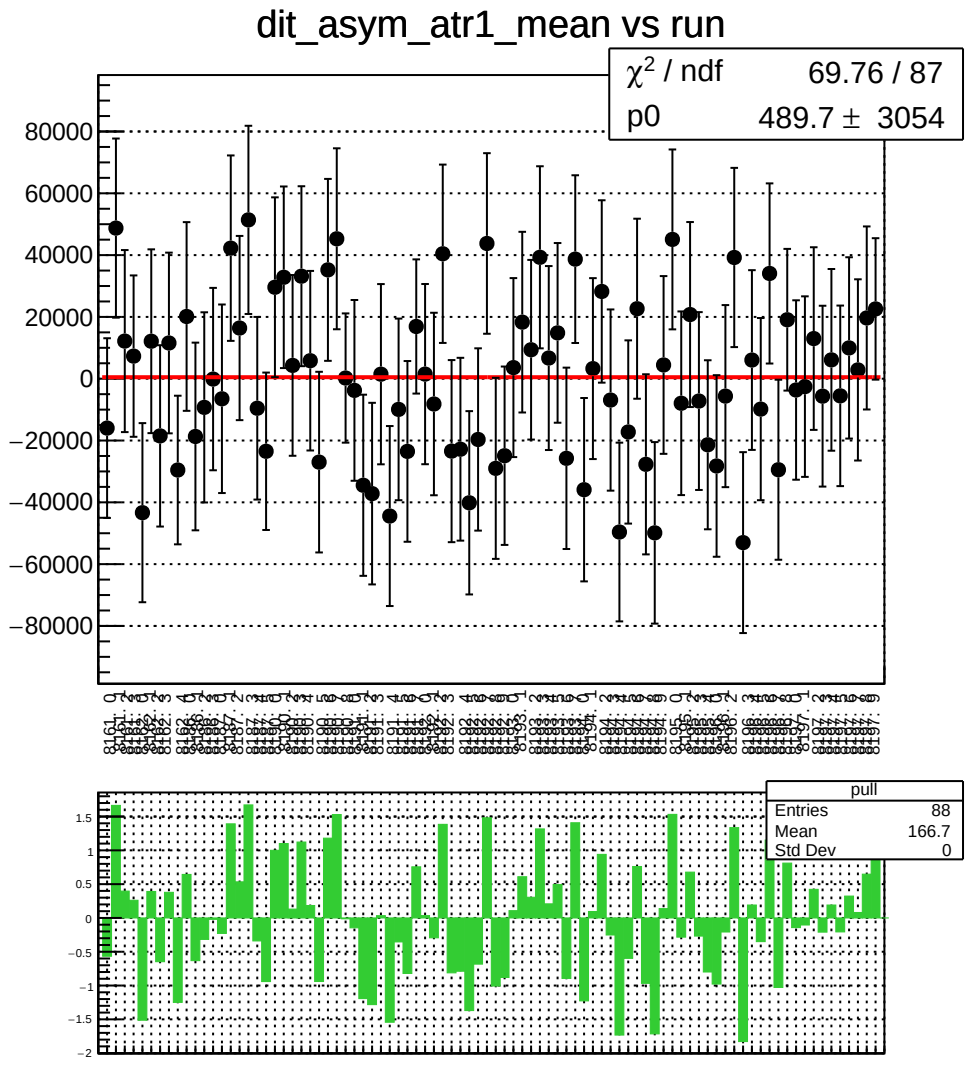

pull1D
Entries 88
Mean −0.00467
Std Dev 0.9153

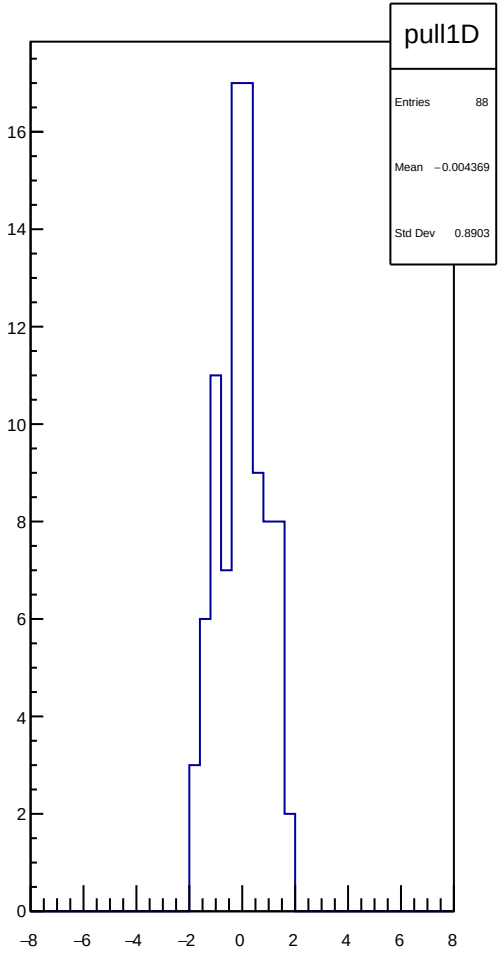

eigen_cor_asym_atr1_rms vs run
χ² / ndf 138 / 87
p0 2767 ± 2.143
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

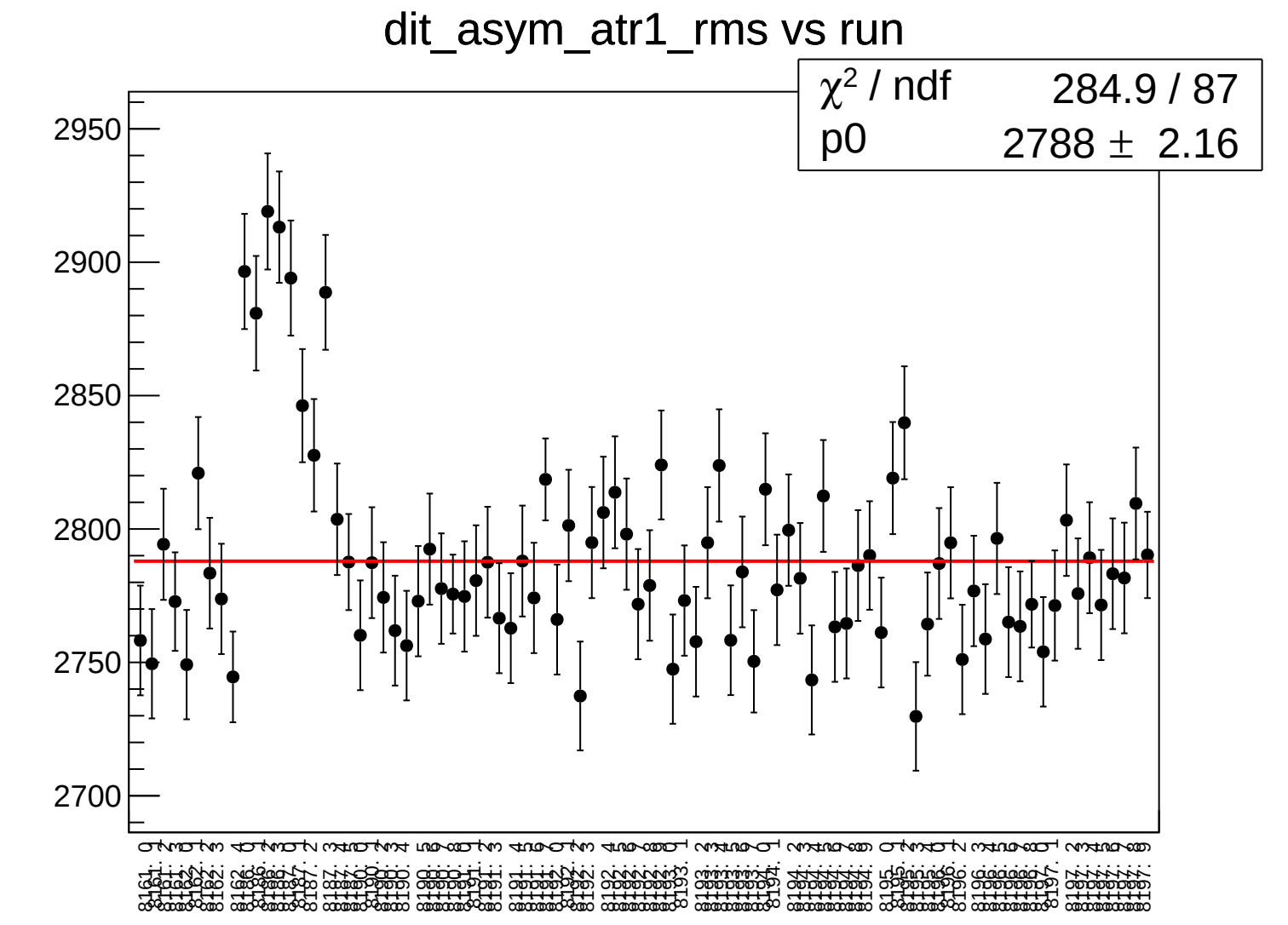

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 78.03 / 87
p0 −2878 ± 1754
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 48.96
Std Dev 0
3
2
1
0
−1
−2

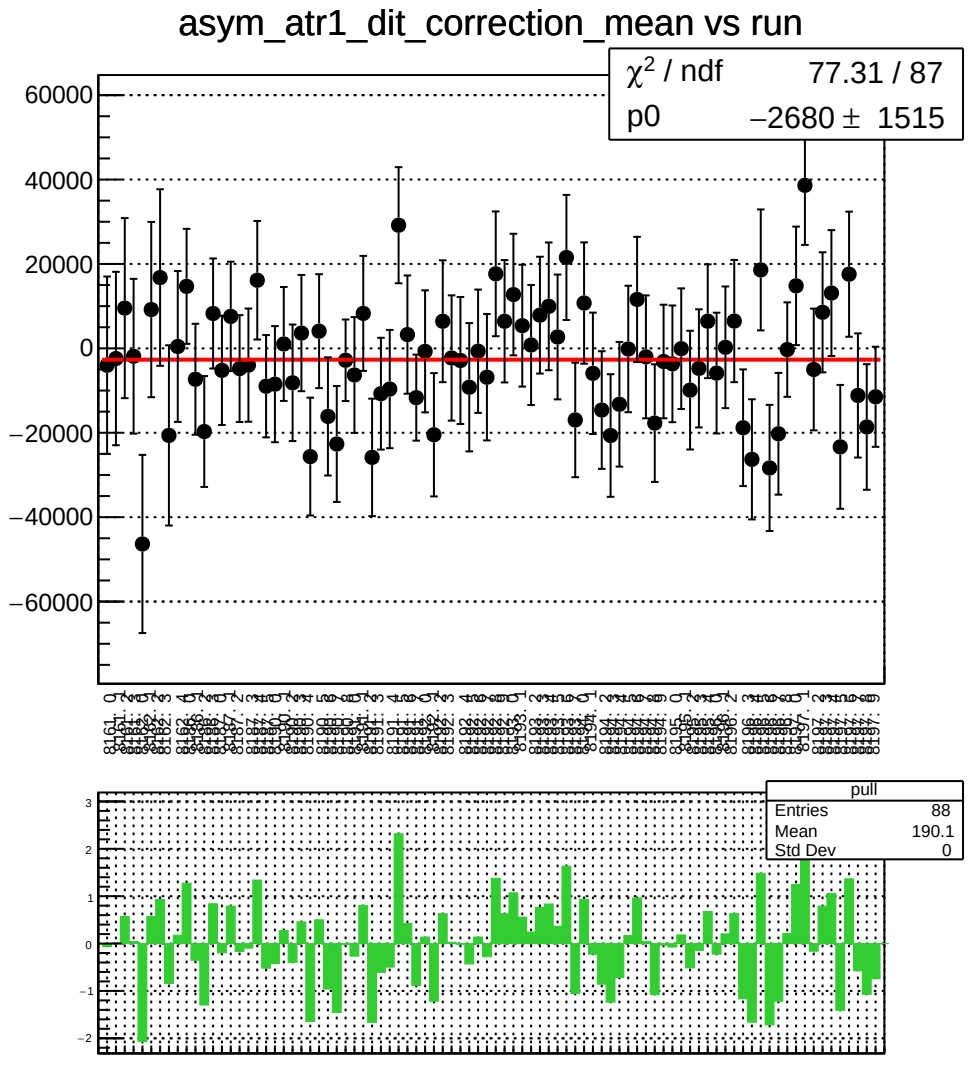

pull1D
Entries 88
Mean 0.01557
Std Dev 0.9415
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

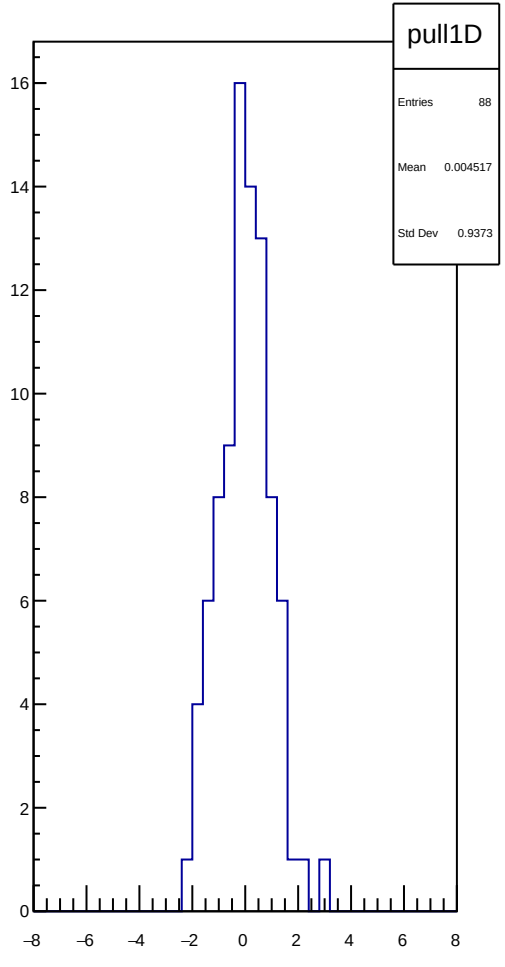

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 3.614e+04 / 87
p0 1584 ± 1.24
2200
2000
1800
1600
1400
1200
1000

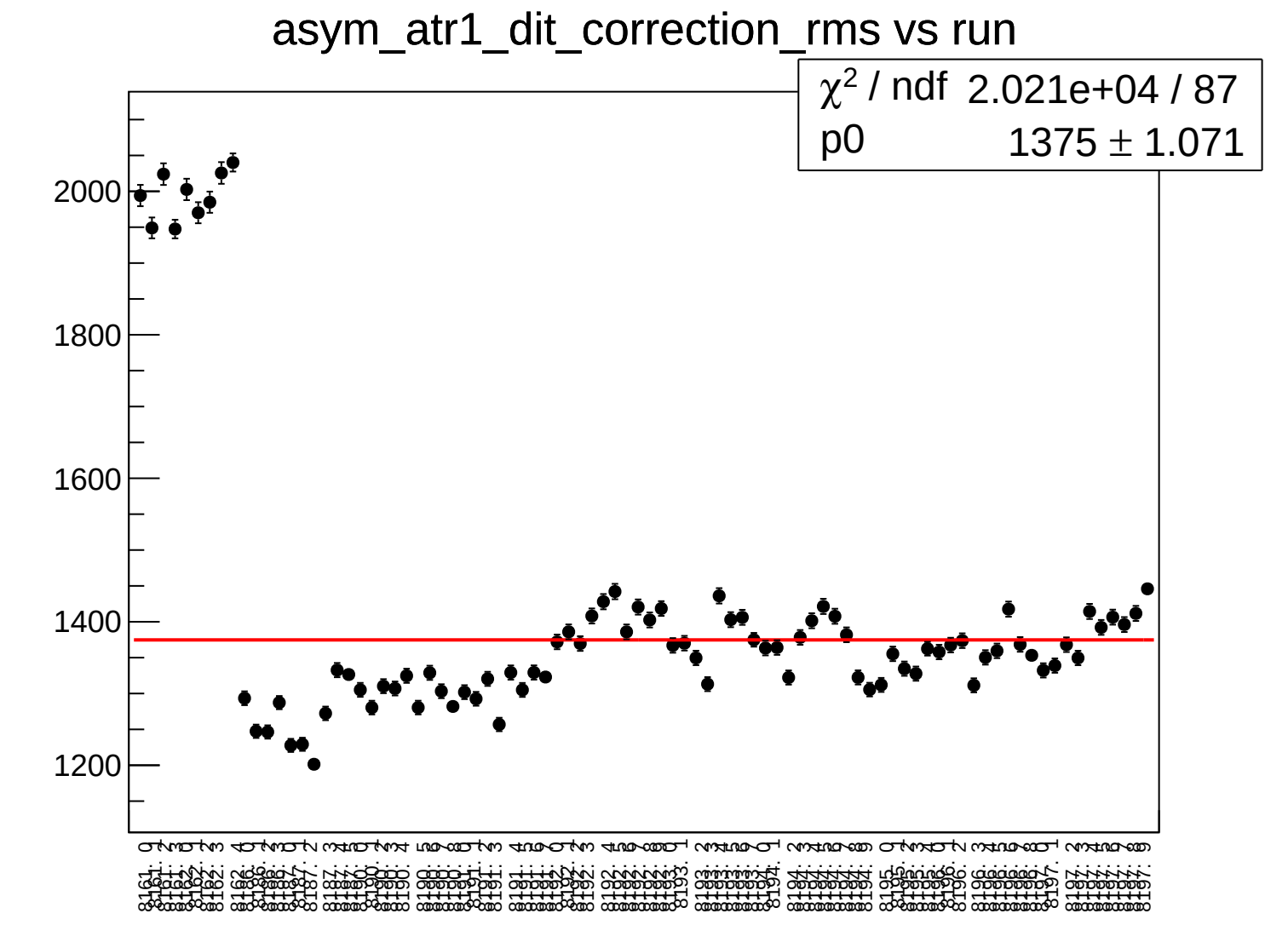

dit_asym_atr1_mean vs run
χ² / ndf 69.76 / 87
p0 489.7 ± 3054
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 166.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

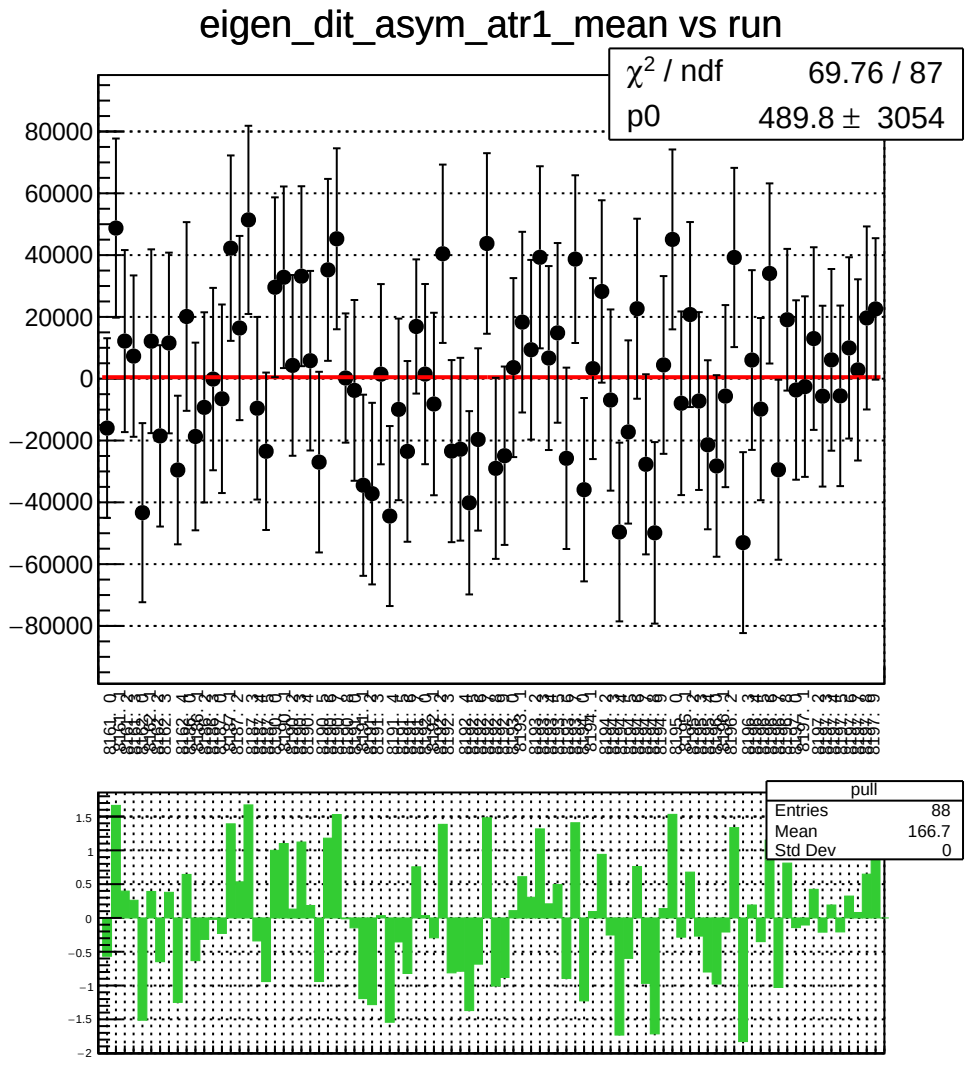

pull1D
Entries 88
Mean −0.004369
Std Dev 0.8903
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

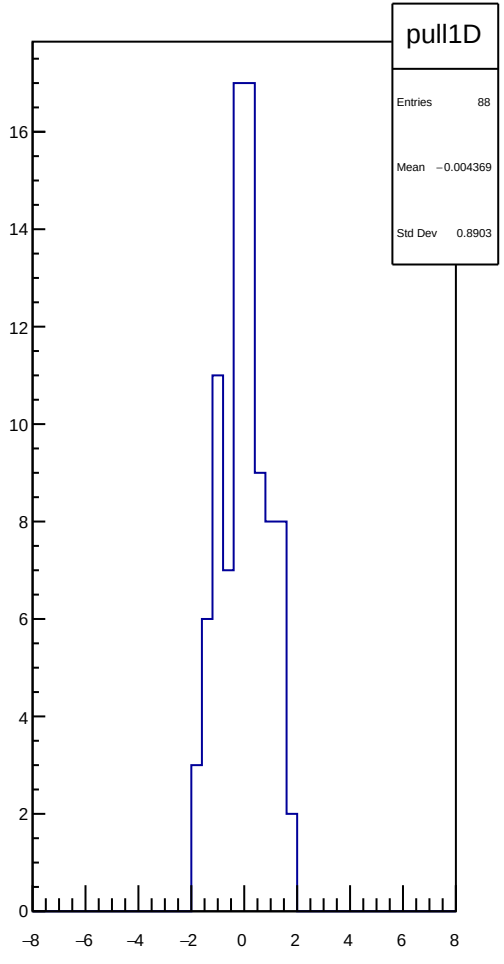

dit_asym_atr1_rms vs run
χ² / ndf 284.9 / 87
p0 2788 ± 2.16
2950
2900
2850
2800
2750
2700

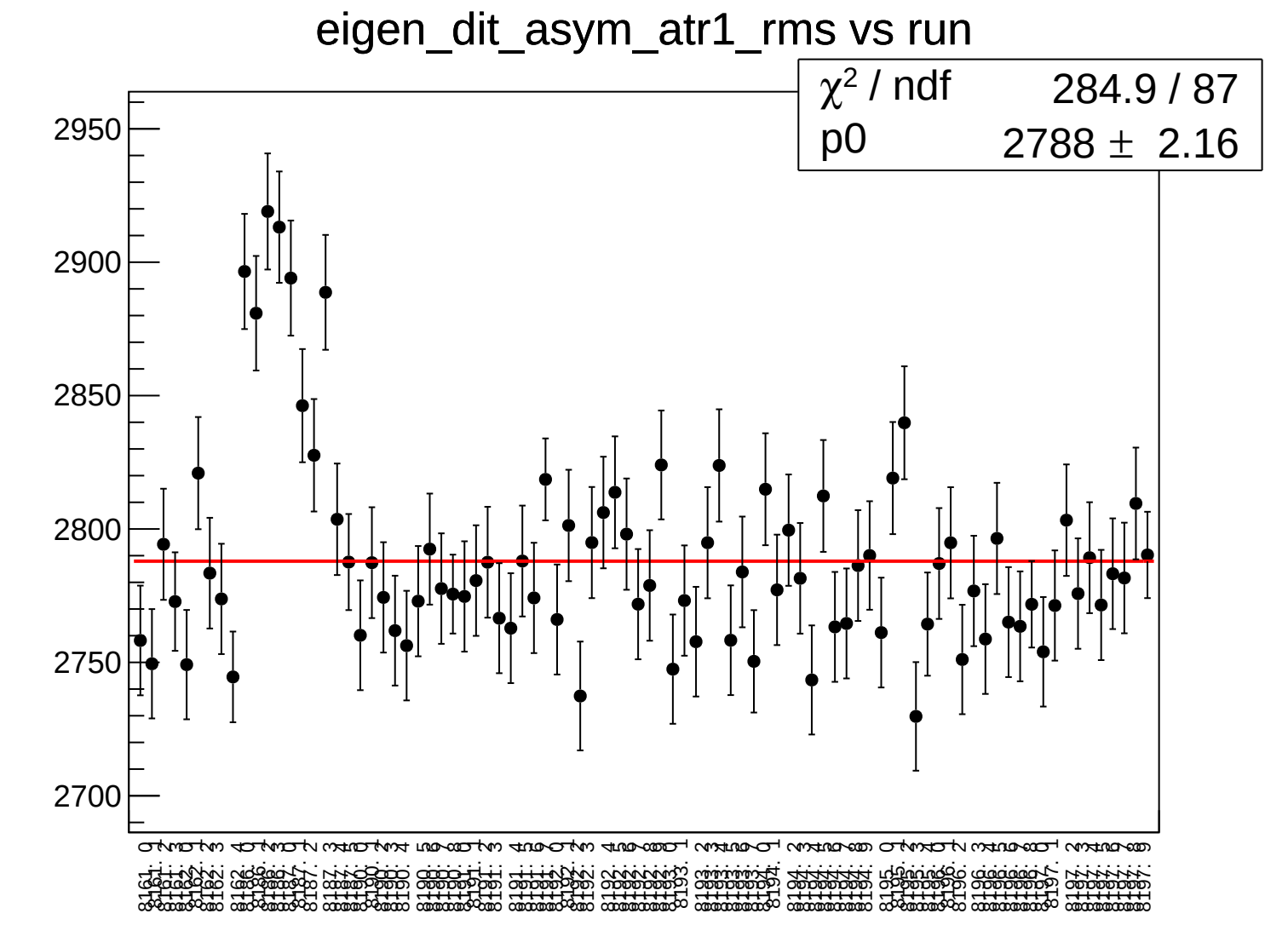

asym_atr1_dit_correction_mean vs run
χ² / ndf 77.31 / 87
p0 −2680 ± 1515
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 190.1
Std Dev 0
3
2
1
0
−1
−2

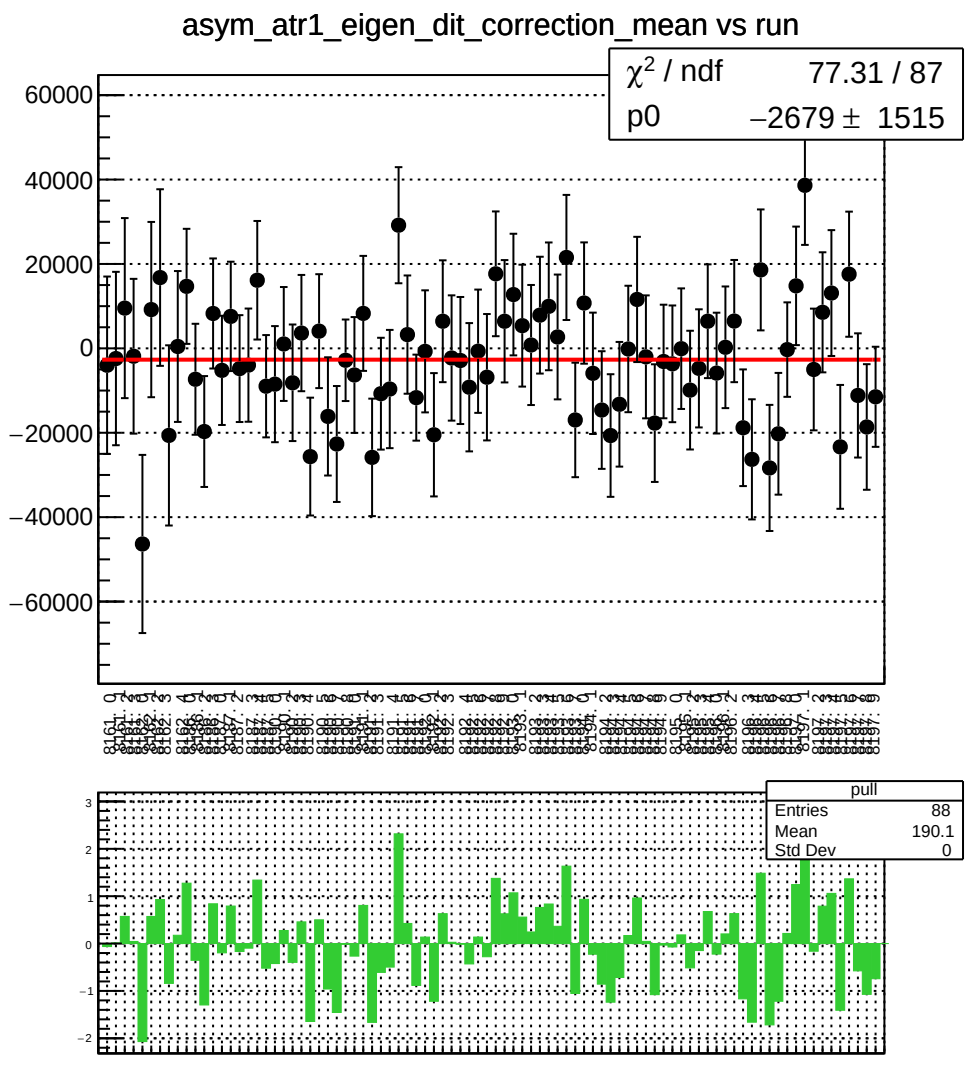

pull1D
Entries 88
Mean 0.004517
Std Dev 0.9373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

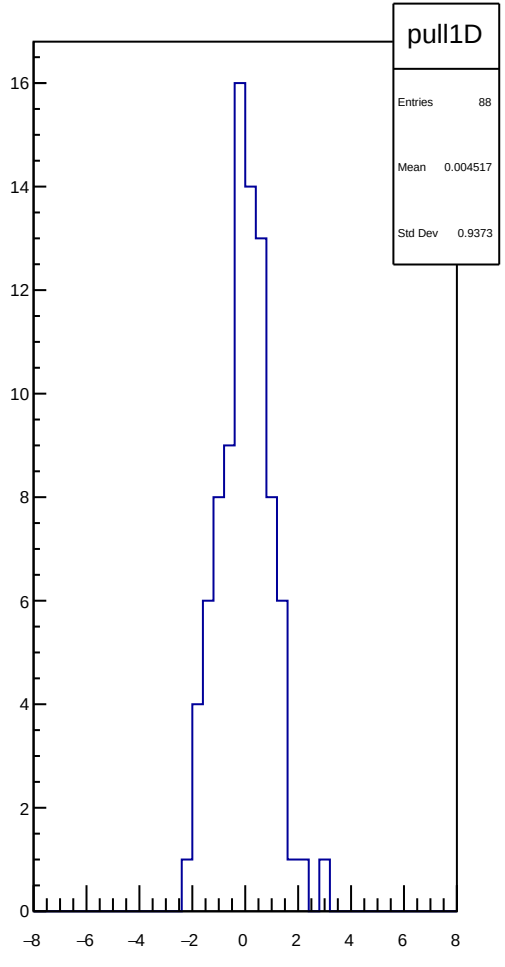

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.021e+04 / 87
p0 1375 ± 1.071
2000
1800
1600
1400
1200

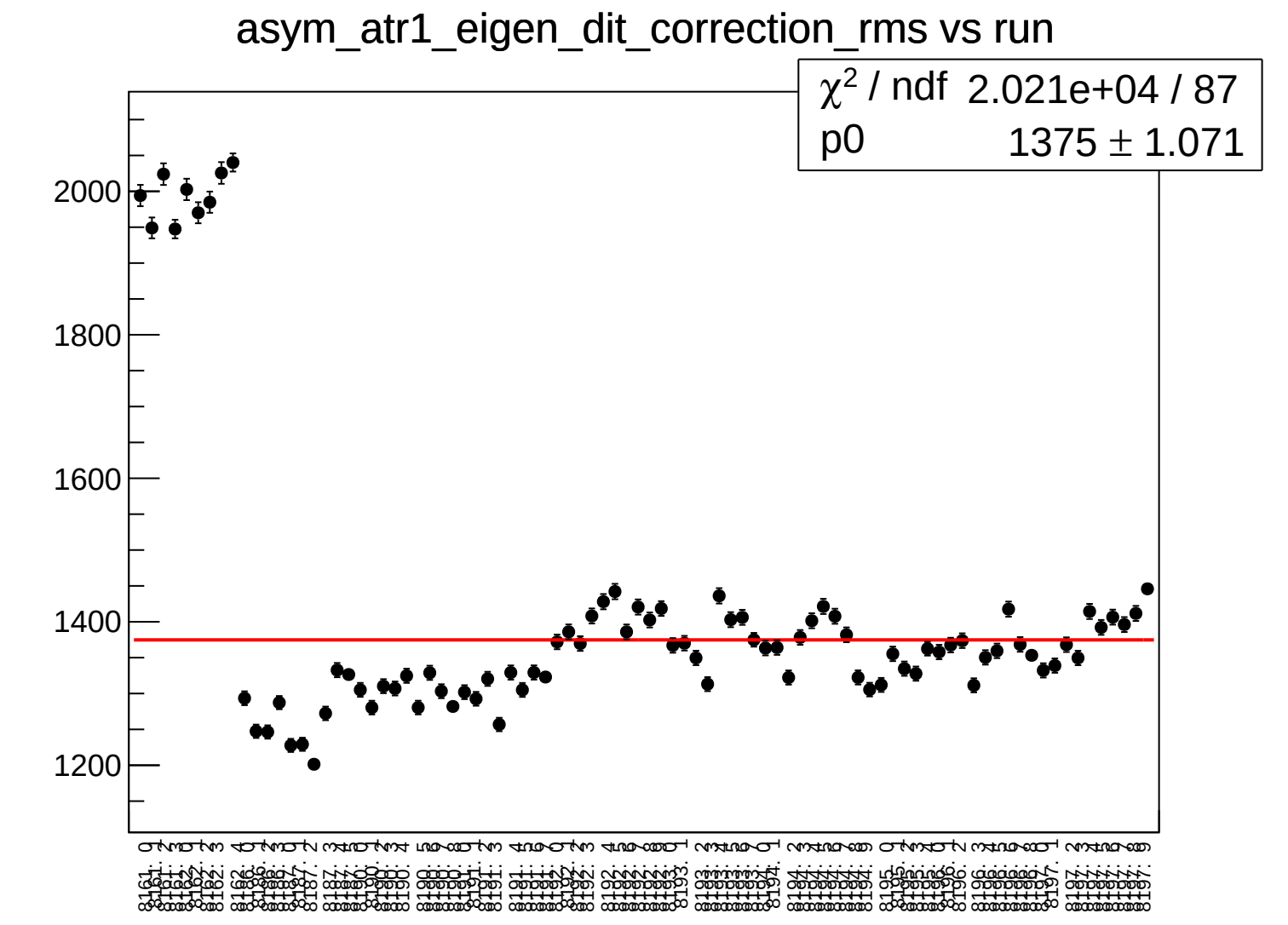

eigen_dit_asym_atr1_mean vs run
χ² / ndf 69.76 / 87
p0 489.8 ± 3054
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 166.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

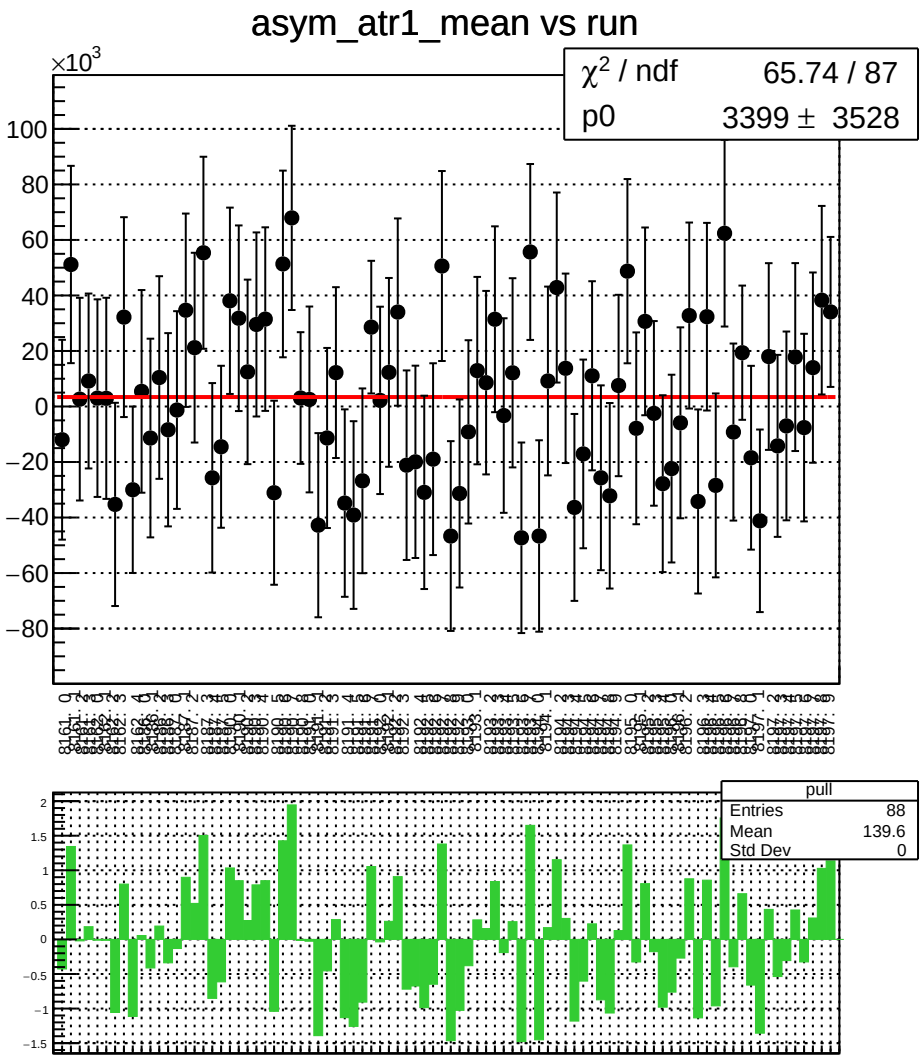

pull1D
Entries 88
Mean −0.004369
Std Dev 0.8903
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

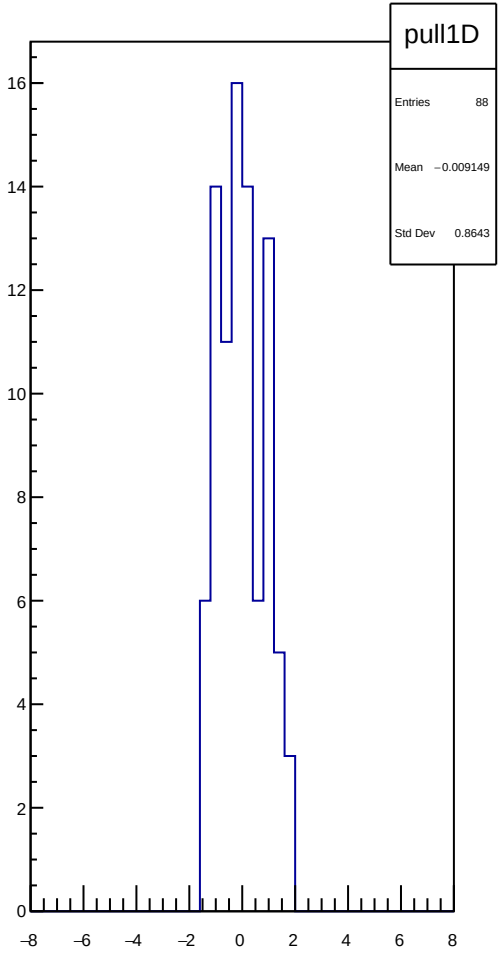

eigen_dit_asym_atr1_rms vs run
χ² / ndf 284.9 / 87
p0 2788 ± 2.16
2950
2900
2850
2800
2750
2700

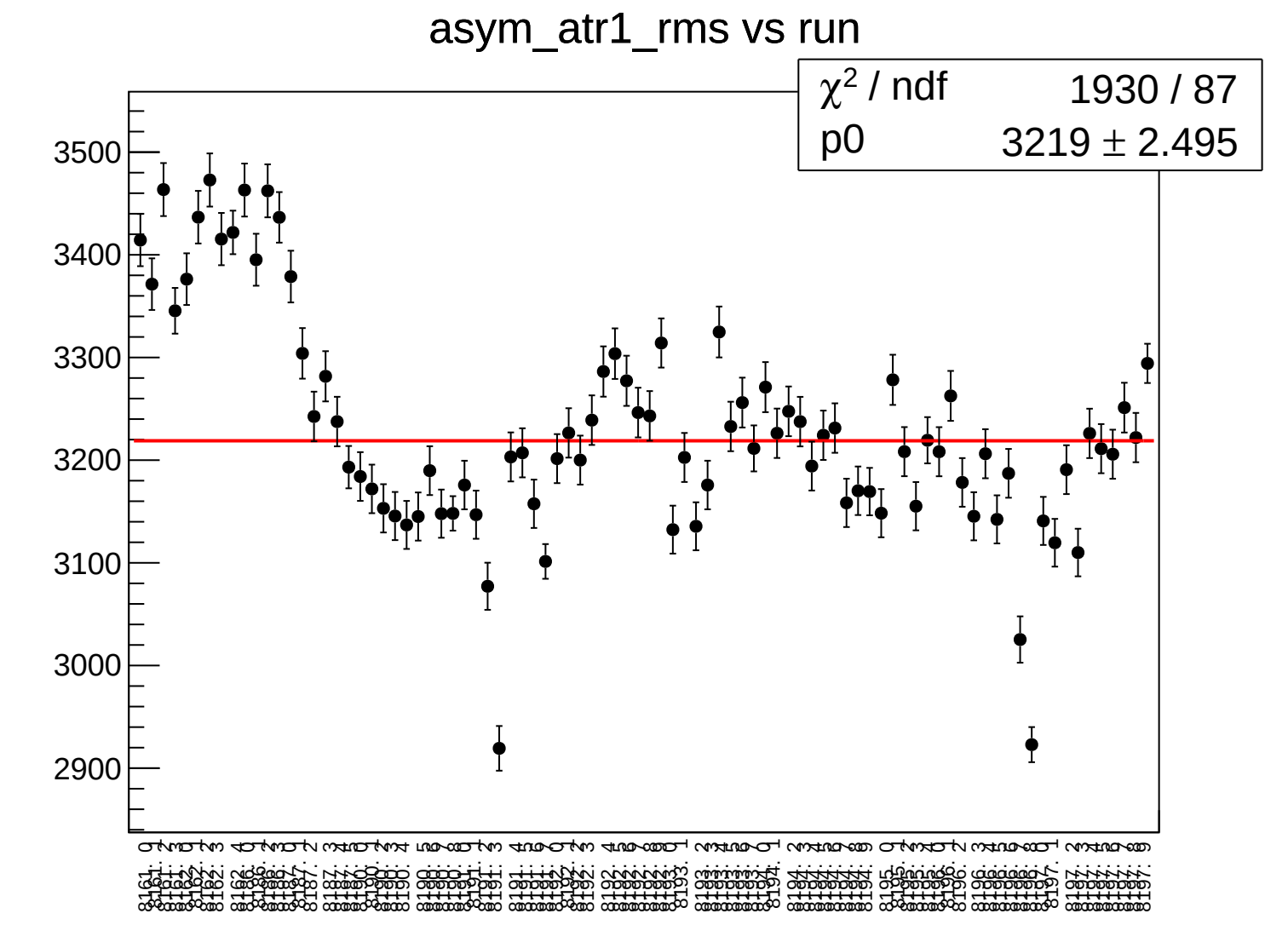

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 77.31 / 87
p0 −2679 ± 1515
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 190.1
Std Dev 0
3
2
1
0
−1
−2

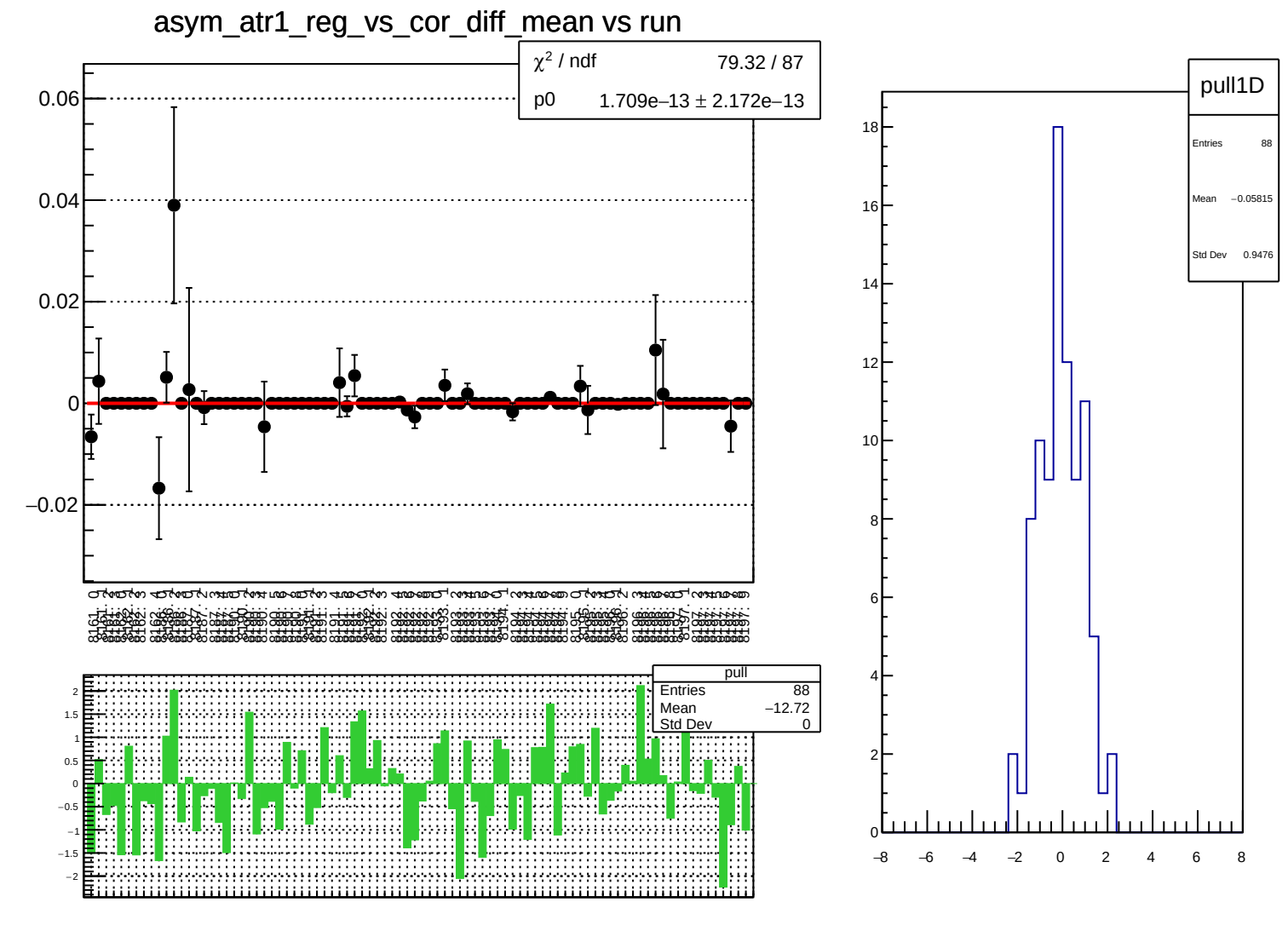

pull1D
Entries 88
Mean 0.004517
Std Dev 0.9373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

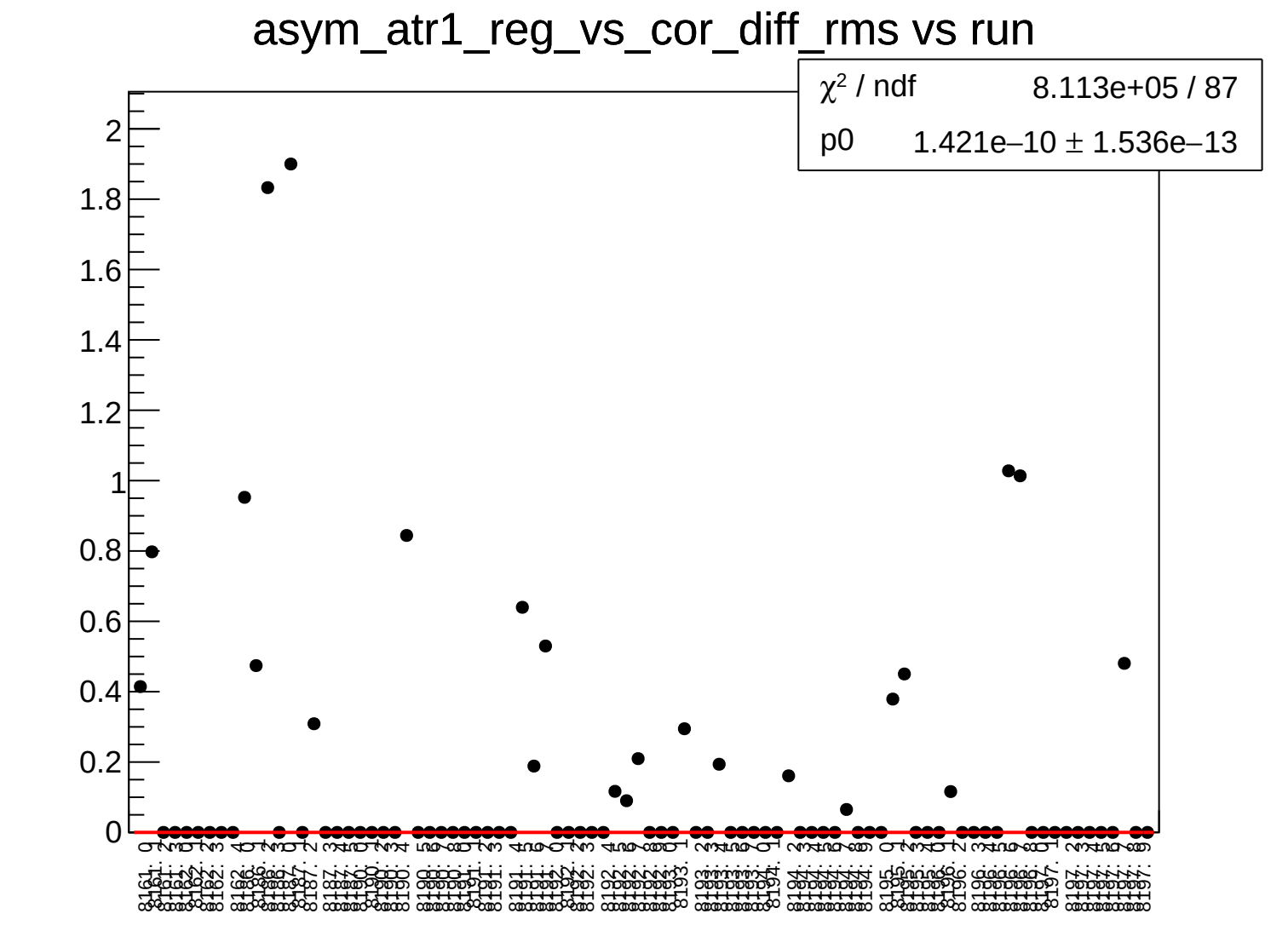

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.021e+04 / 87
p0 1375 ± 1.071
2000
1800
1600
1400
1200

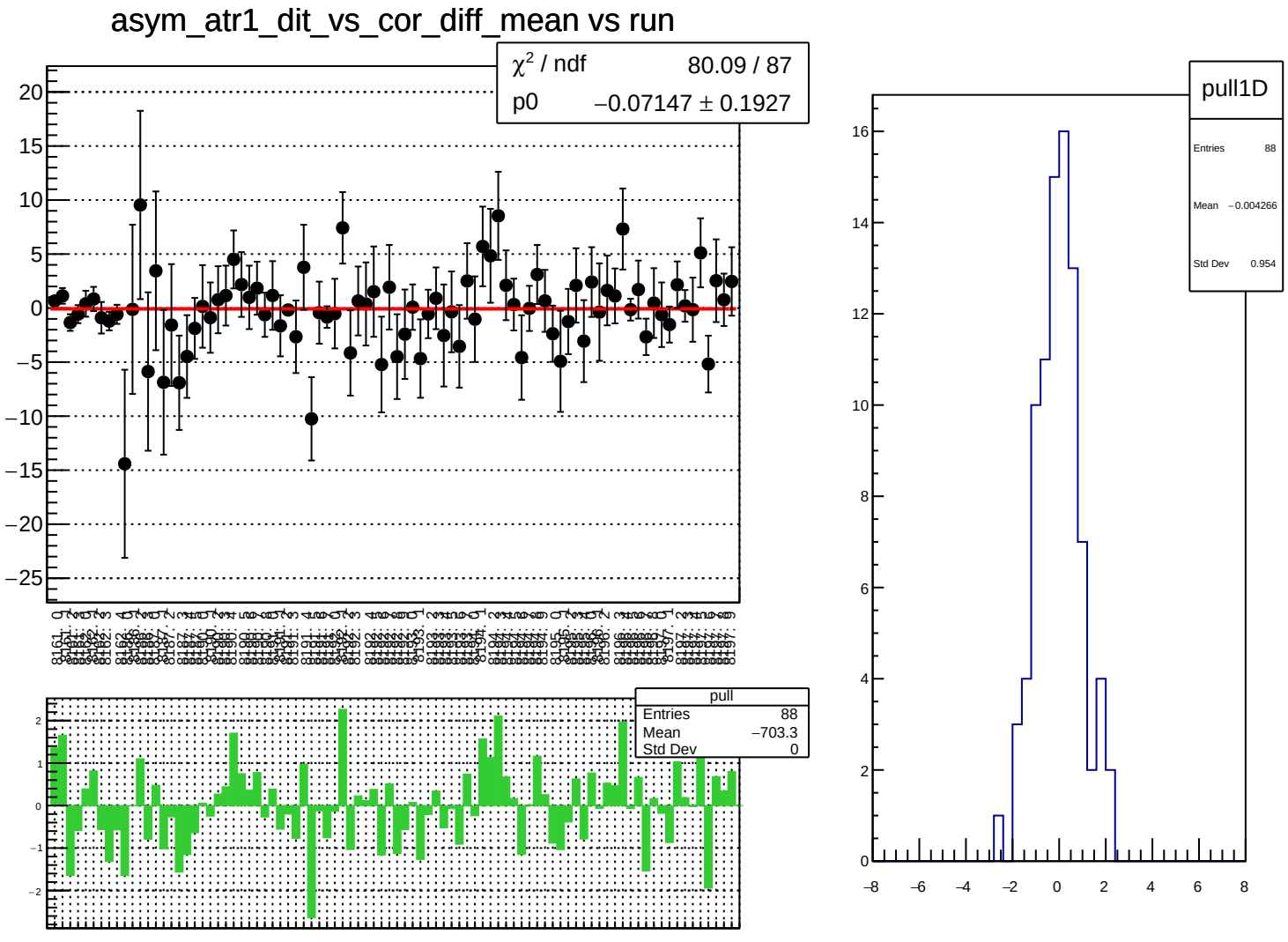

asym_atr1_mean vs run
×10^3
χ^2 / ndf 65.74 / 87
p0 3399 ± 3528
pull
Entries 88
Mean 139.6
Std Dev 0

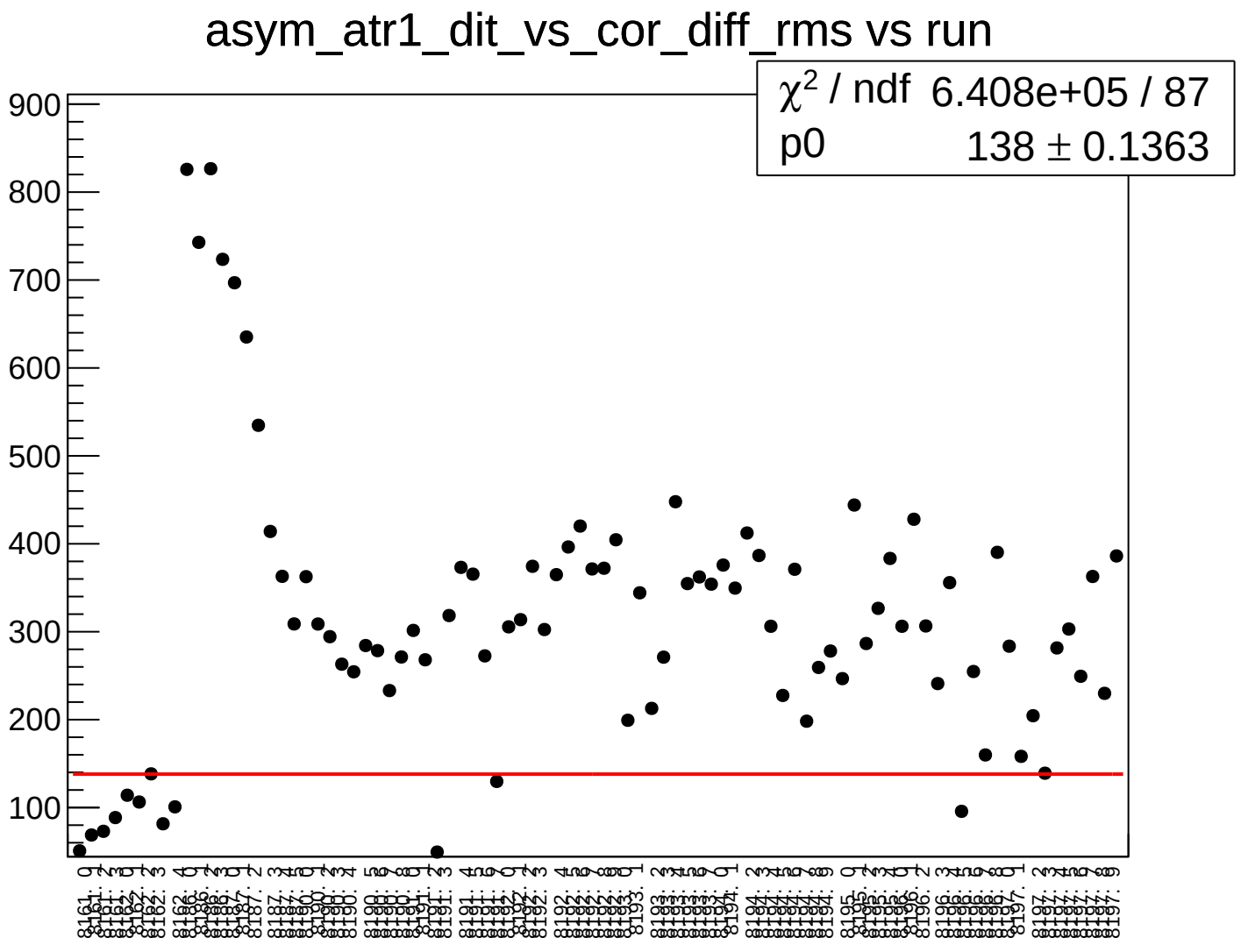

pull1D
Entries 88
Mean −0.009149
Std Dev 0.8643

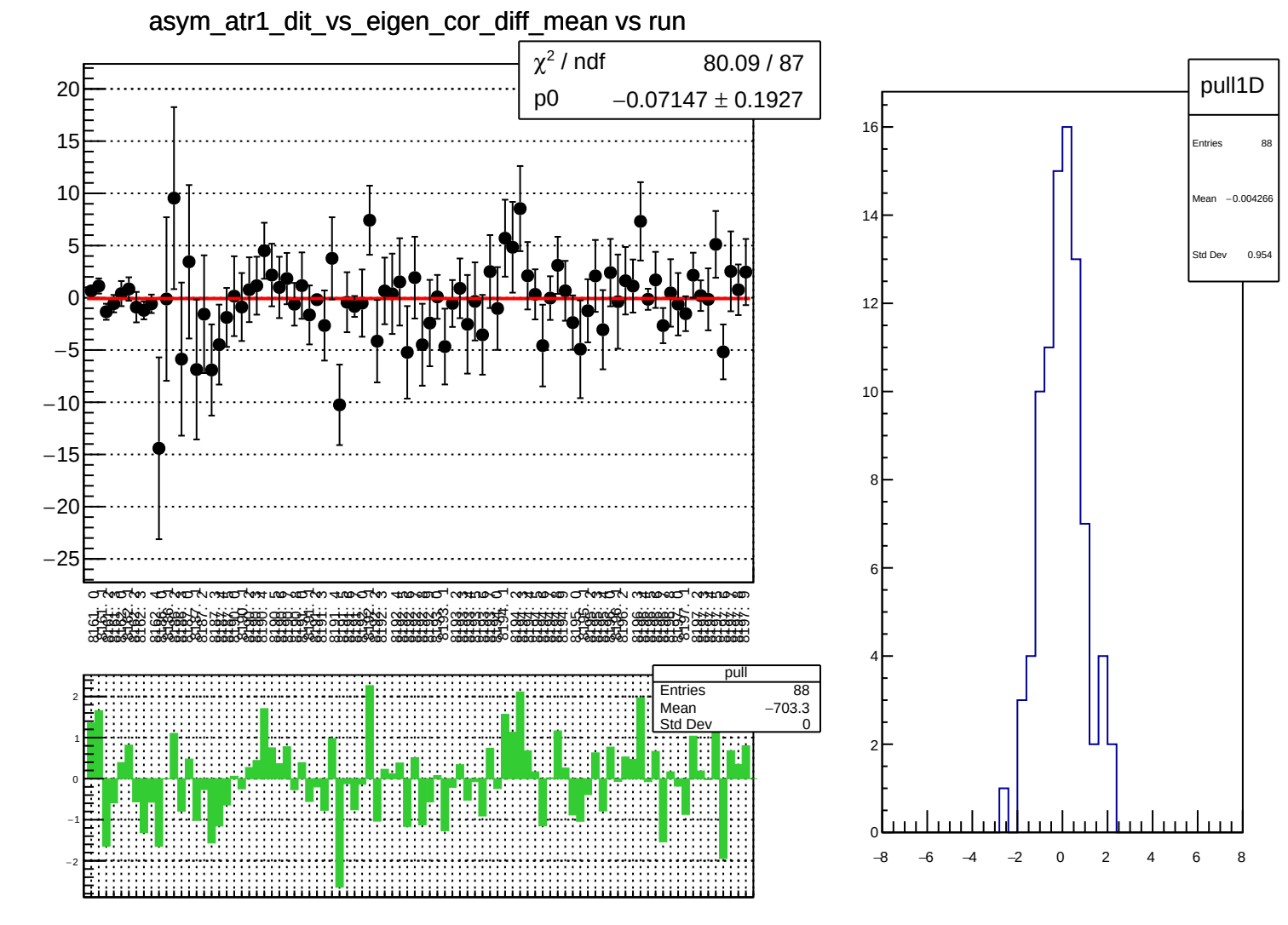

asym_atr1_rms vs run
χ^2 / ndf 1930 / 87
p0 3219 ± 2.495
3500
3400
3300
3200
3100
3000
2900

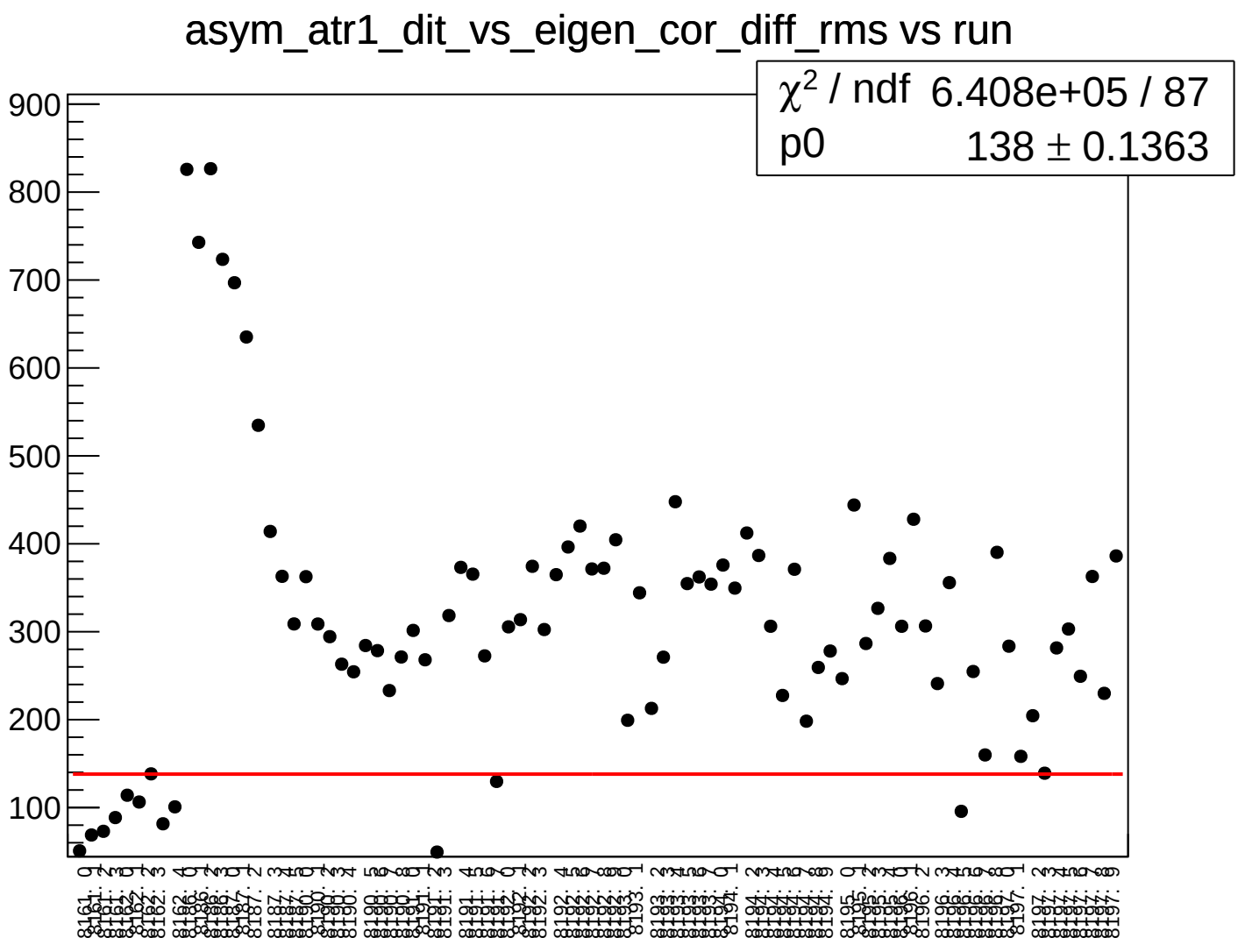

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 79.32 / 87
p0 1.709e−13 ± 2.172e−13
0.06
0.04
0.02
0
−0.02
pull
Entries 88
Mean −12.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.05815
Std Dev 0.9476
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

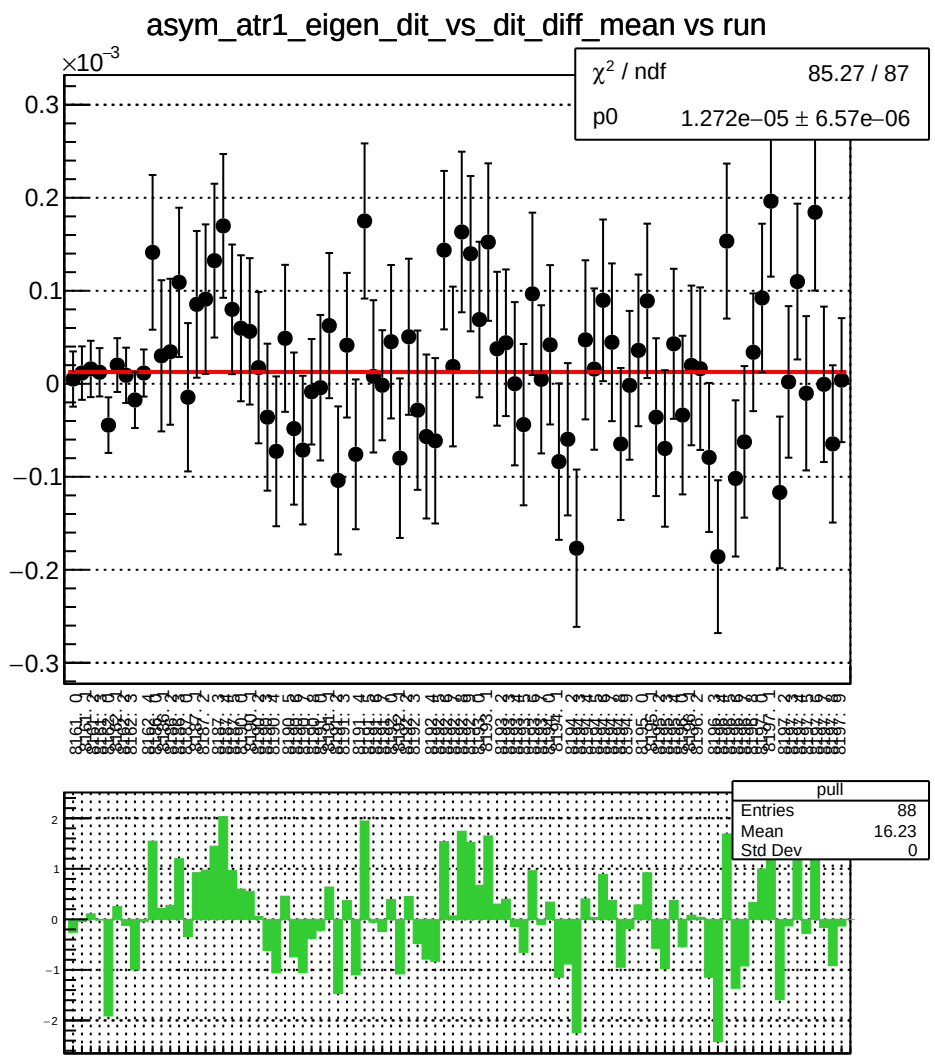

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.113e+05 / 87
p0 1.421e−10 ± 1.536e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

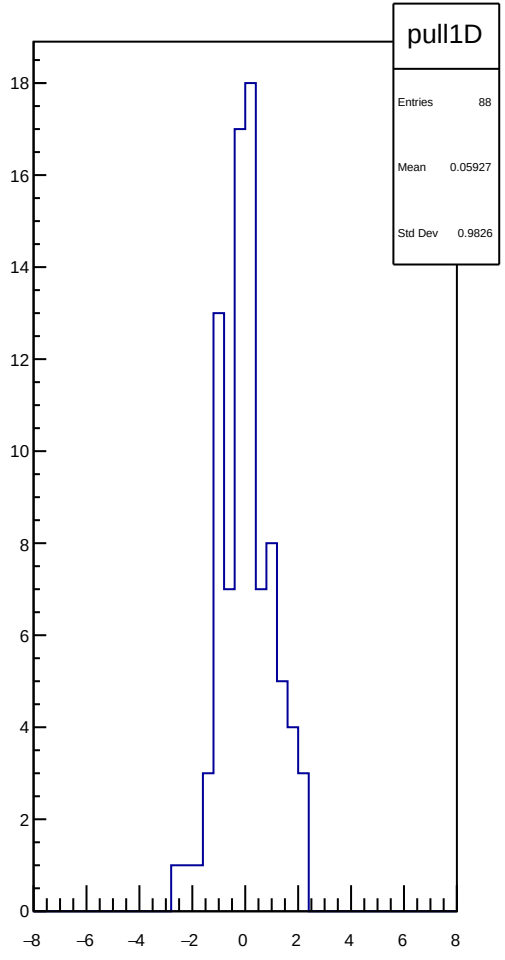

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 80.09 / 87
p0 −0.07147 ± 0.1927
pull
Entries 88
Mean −703.3
Std Dev 0
pull1D
Entries 88
Mean −0.004266
Std Dev 0.954

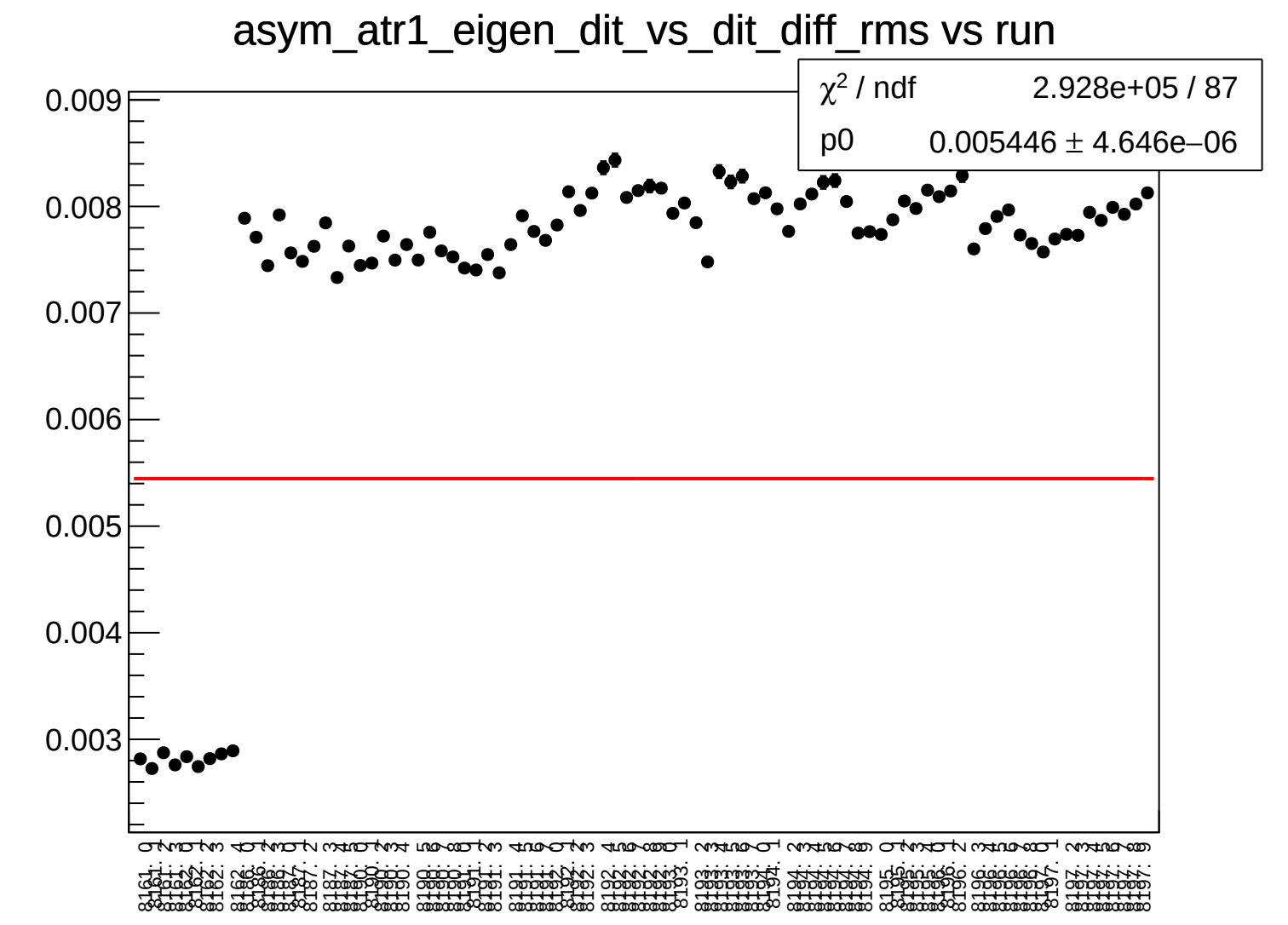

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 6.408e+05 / 87
p0 138 ± 0.1363
900
800
700
600
500
400
300
200
100

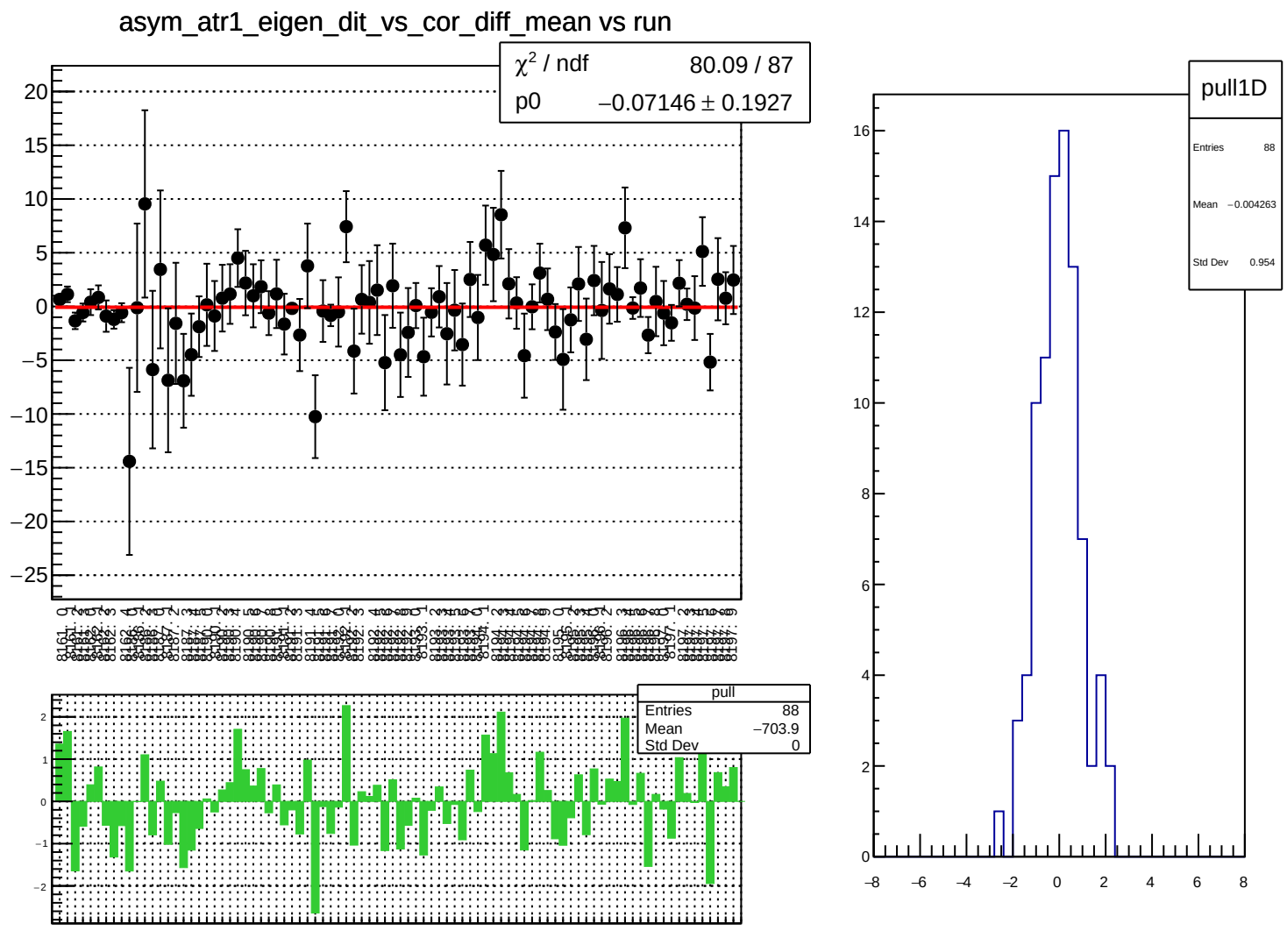

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.09 / 87
p0 −0.07147 ± 0.1927
pull
Entries 88
Mean −703.3
Std Dev 0
pull1D
Entries 88
Mean −0.004266
Std Dev 0.954

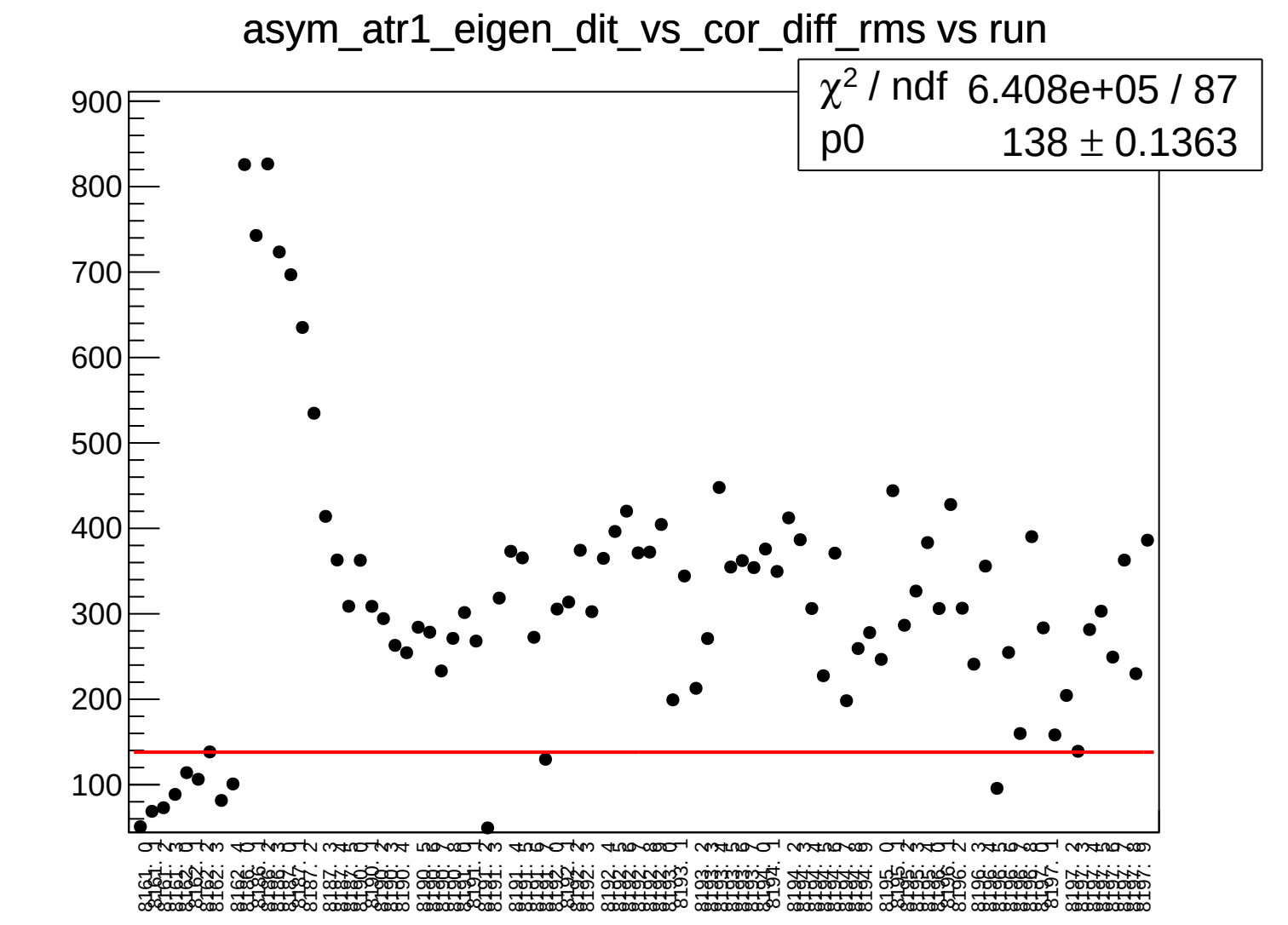

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.408e+05 / 87
p0 138 ± 0.1363
900
800
700
600
500
400
300
200
100

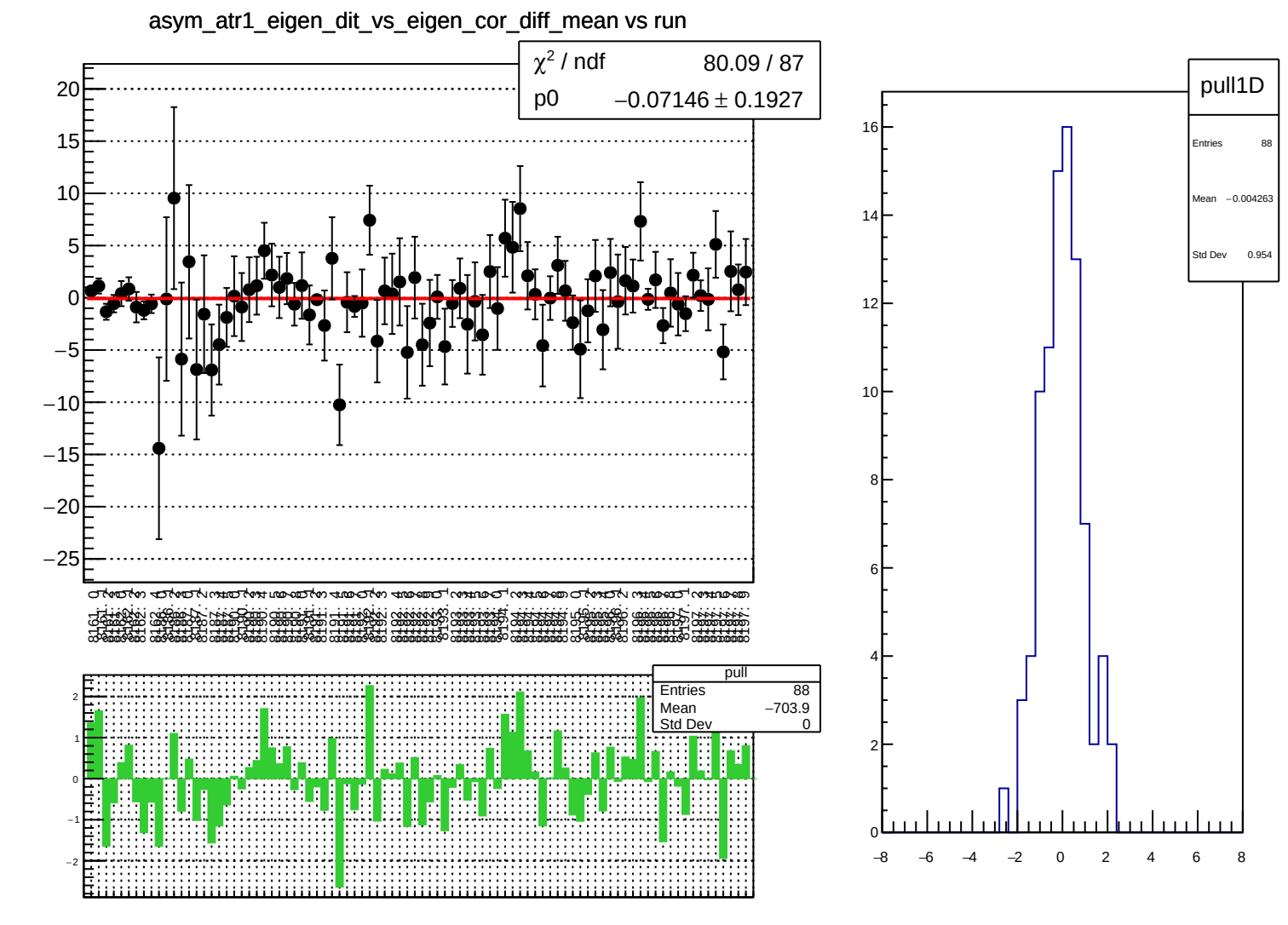

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.27 / 87
p0 1.272e−05 ± 6.57e−06
pull
Entries 88
Mean 16.23
Std Dev 0

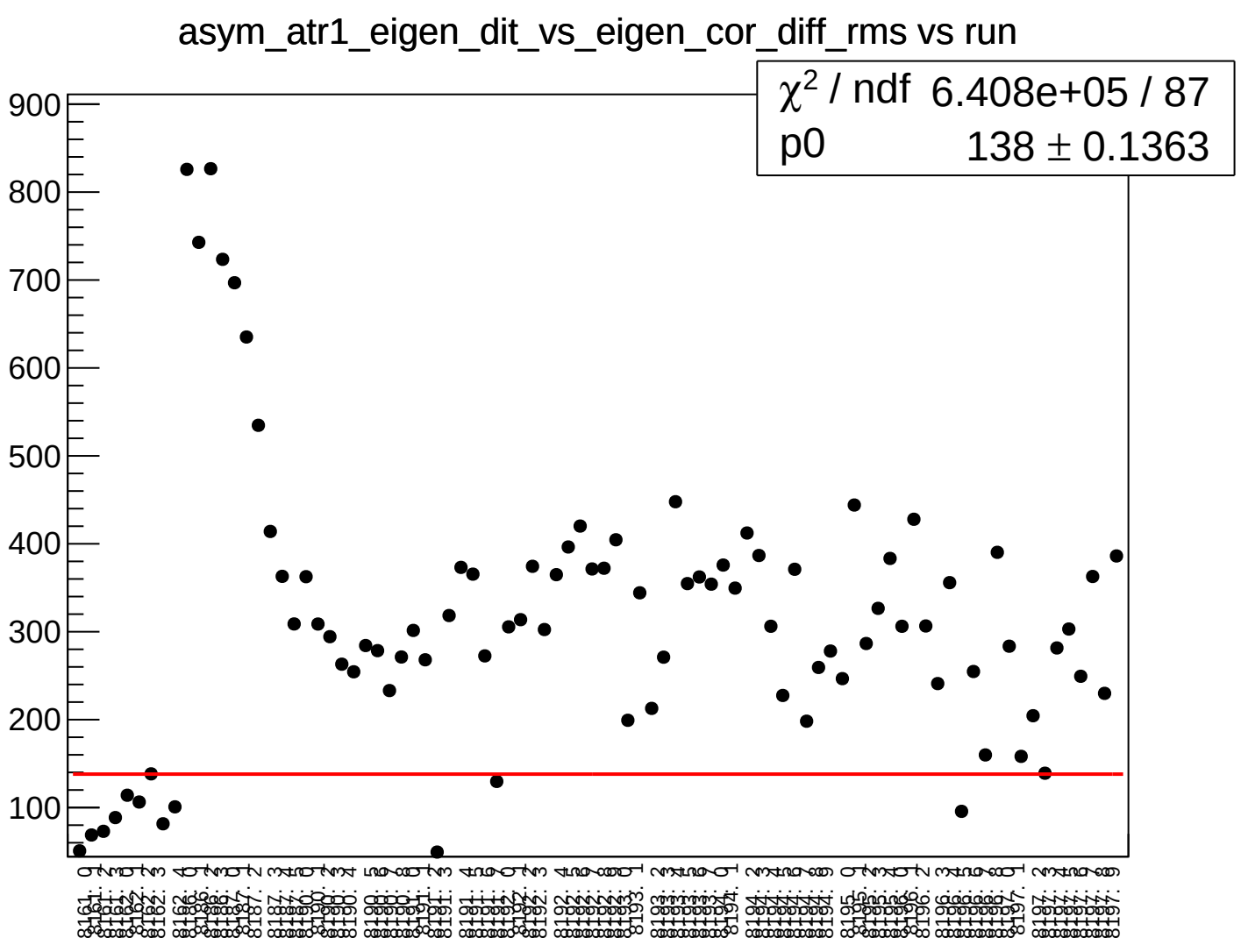

pull1D
Entries 88
Mean 0.05927
Std Dev 0.9826

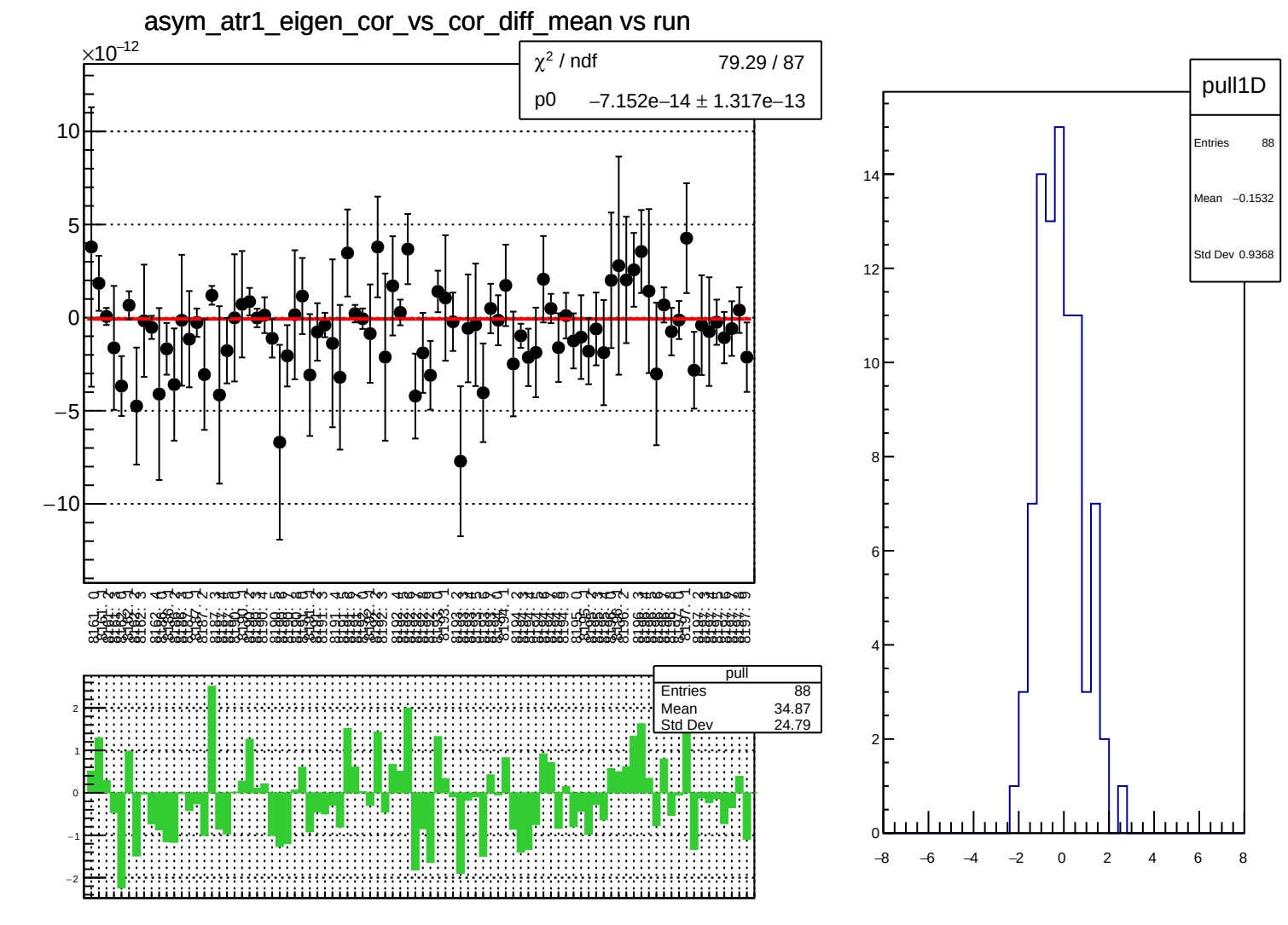

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.928e+05 / 87
p0 0.005446 ± 4.646e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

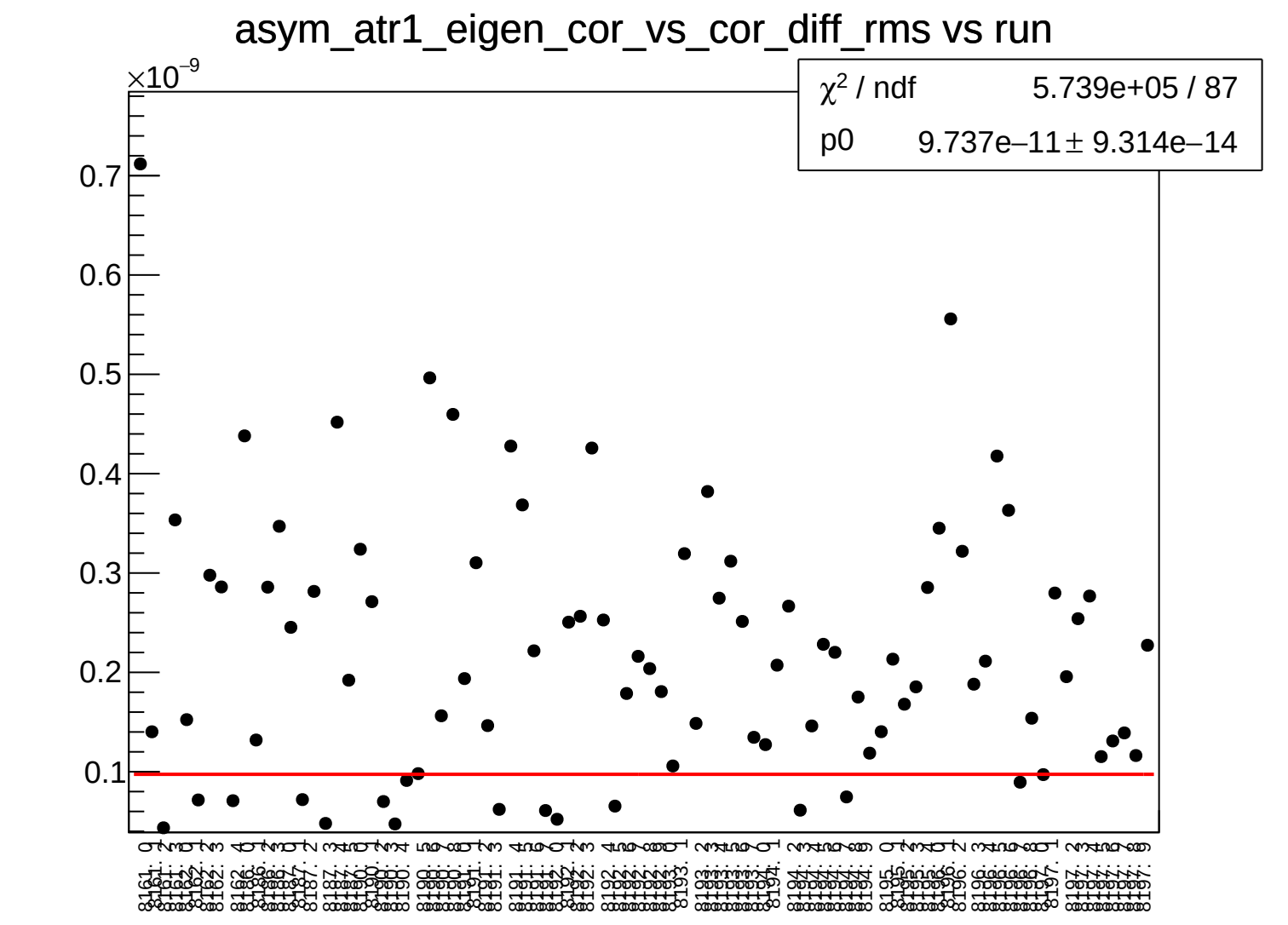

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.09 / 87
p0 −0.07146 ± 0.1927
pull
Entries 88
Mean −703.9
Std Dev 0
pull1D
Entries 88
Mean −0.004263
Std Dev 0.954

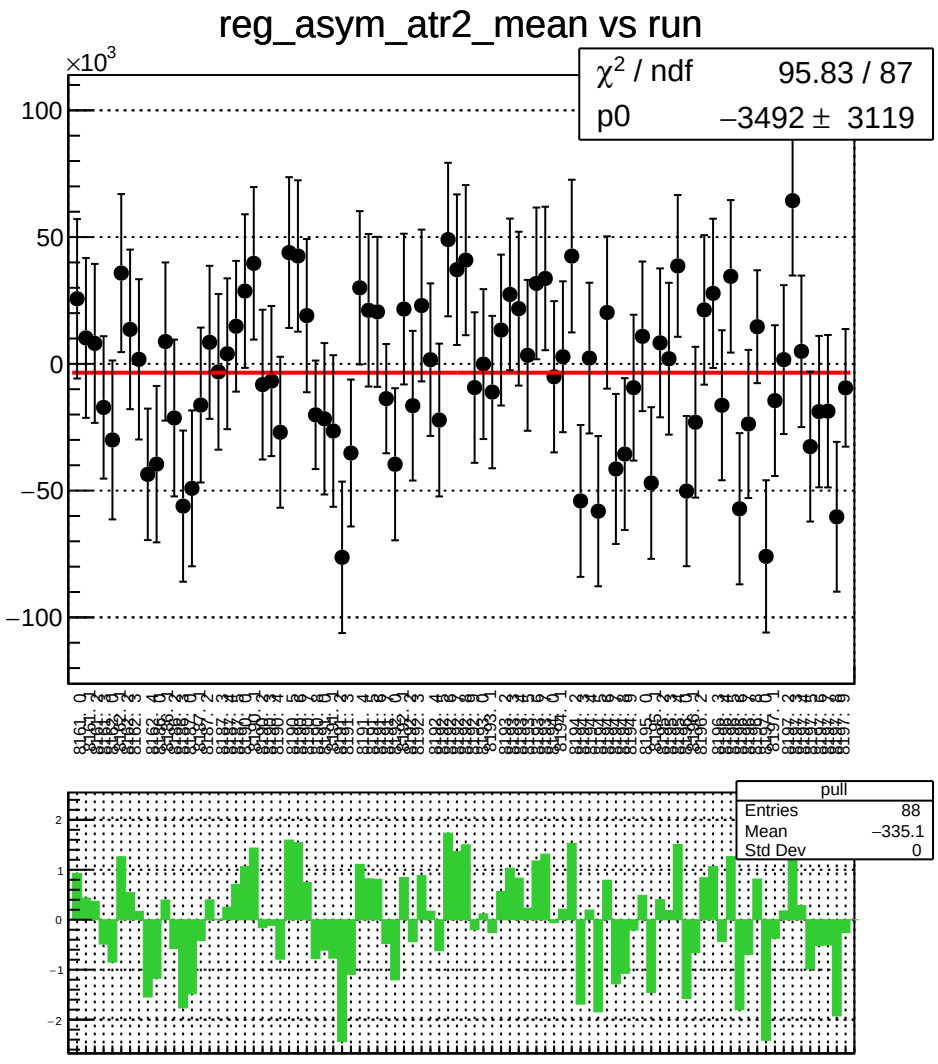

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.408e+05 / 87
p0 138 ± 0.1363
900
800
700
600
500
400
300
200
100

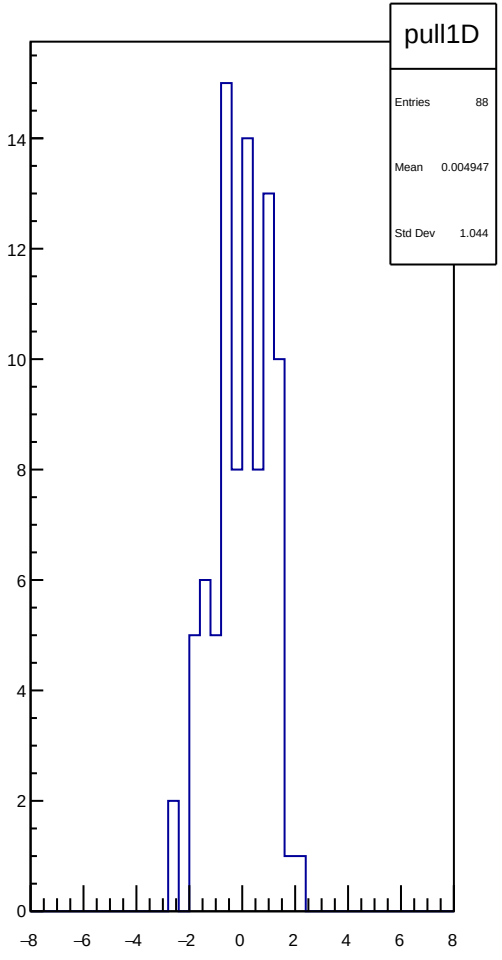

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.09 / 87
p0 −0.07146 ± 0.1927
pull
Entries 88
Mean −703.9
Std Dev 0
pull1D
Entries 88
Mean −0.004263
Std Dev 0.954

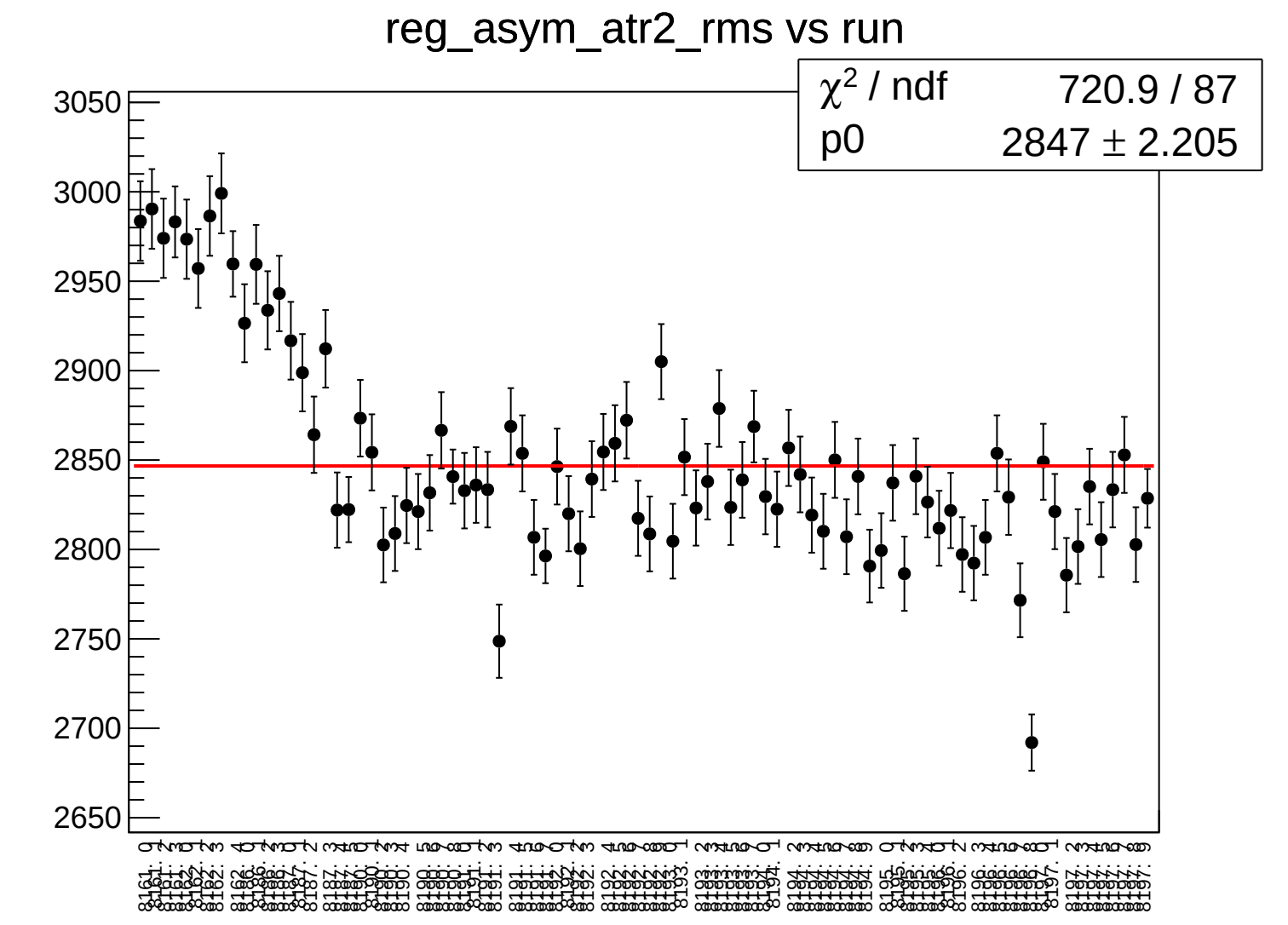

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.408e+05 / 87
p0 138 ± 0.1363
900
800
700
600
500
400
300
200
100

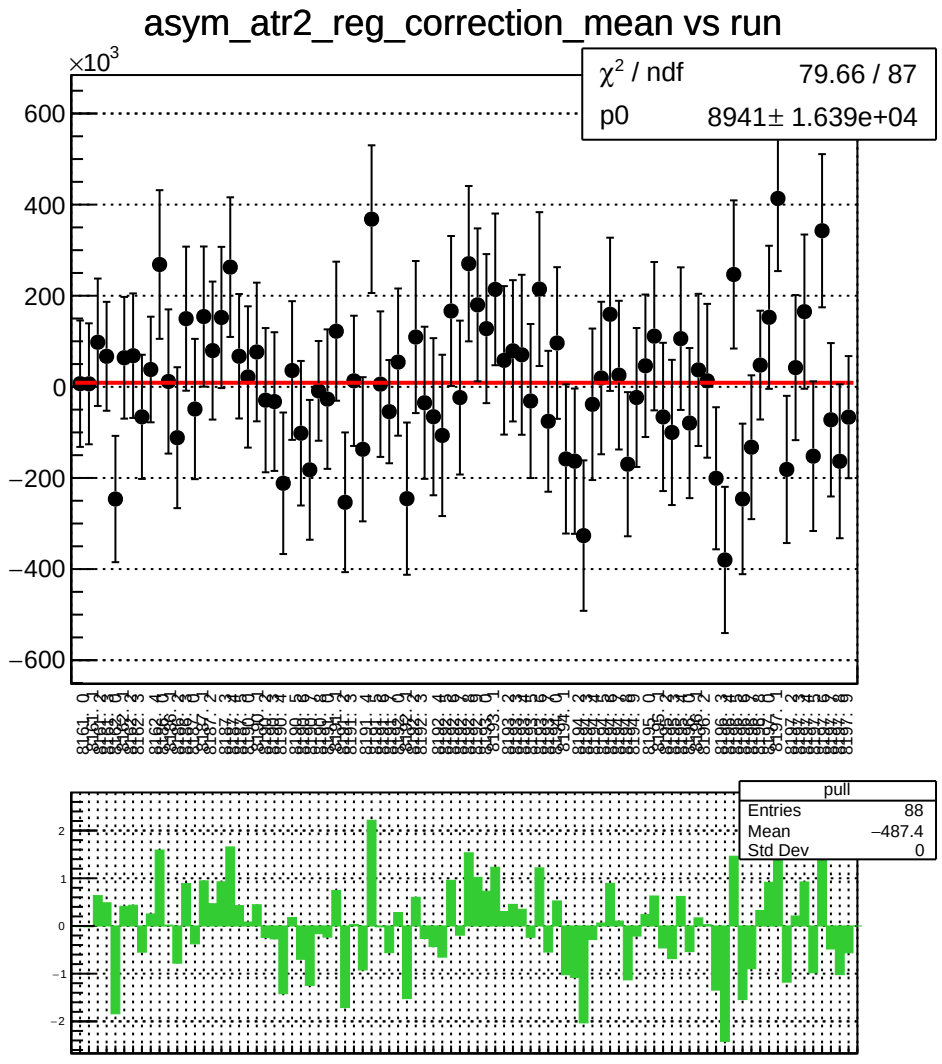

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.29 / 87
p0 −7.152e−14 ± 1.317e−13
pull
Entries 88
Mean 34.87
Std Dev 24.79
pull1D
Entries 88
Mean −0.1532
Std Dev 0.9368

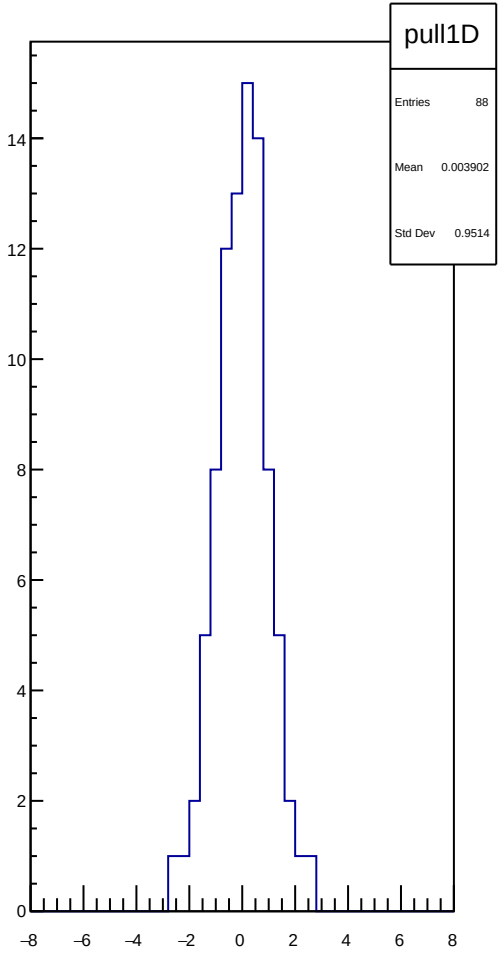

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.739e+05 / 87
p0 9.737e−11 ± 9.314e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

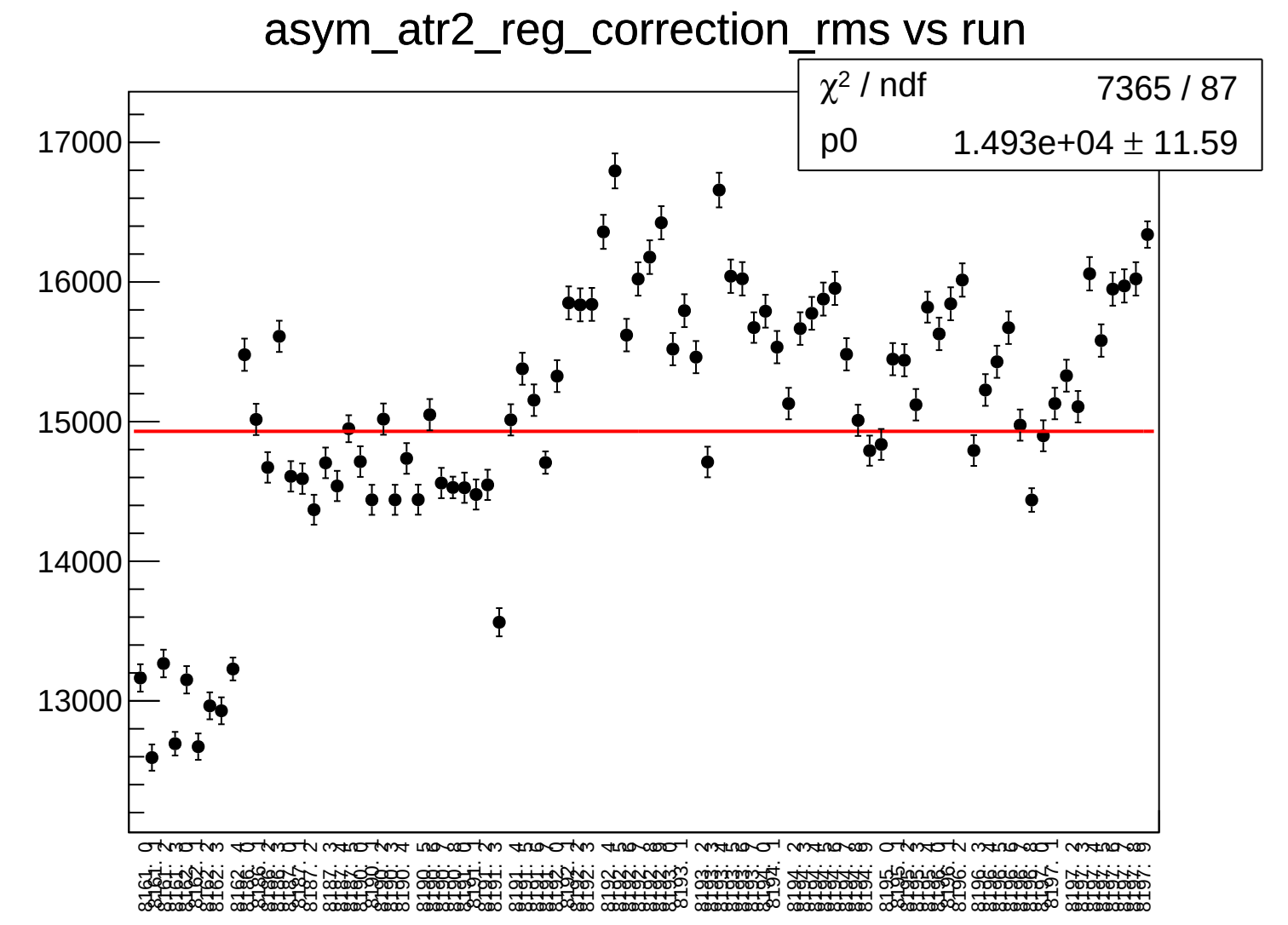

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 95.83 / 87
p0 −3492 ± 3119
100
50
0
−50
−100
pull
Entries 88
Mean −335.1
Std Dev 0
2
1
0
−1
−2

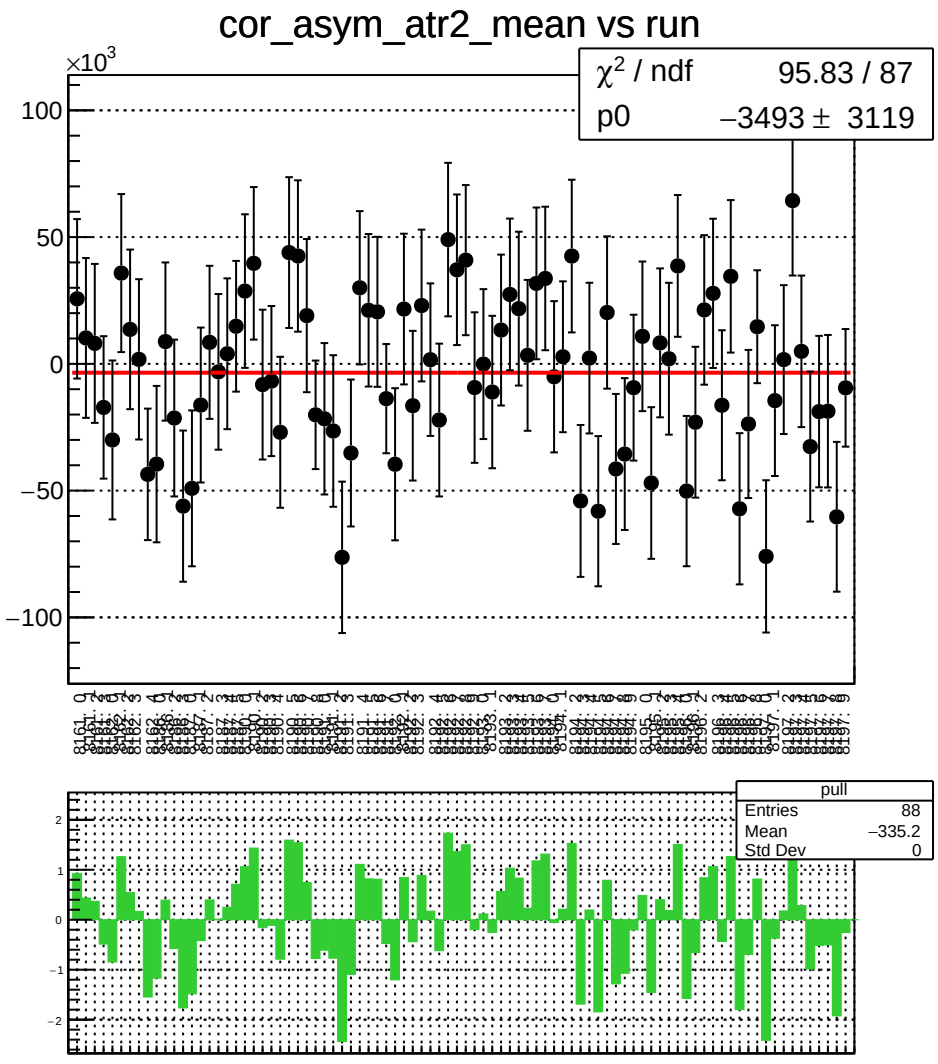

pull1D
Entries 88
Mean 0.004947
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

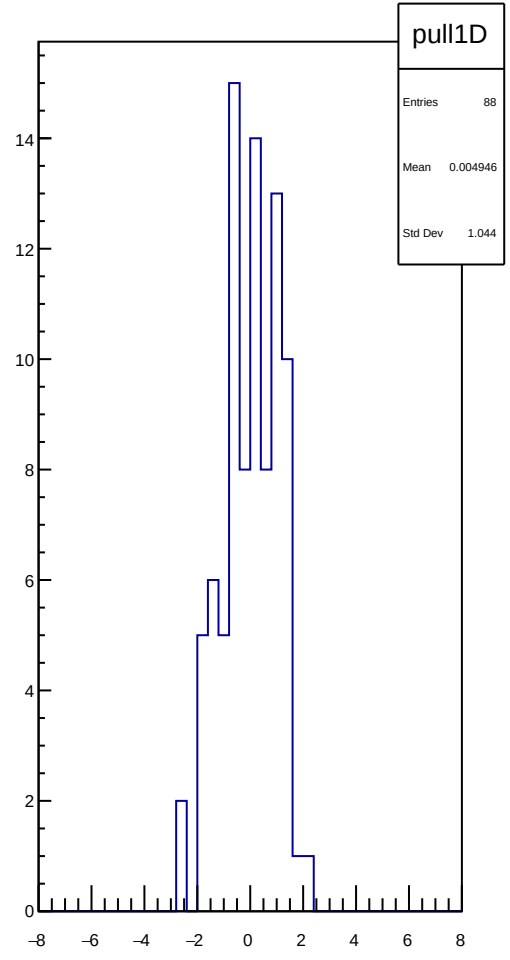

reg_asym_atr2_rms vs run
χ² / ndf 720.9 / 87
p0 2847 ± 2.205
3050
3000
2950
2900
2850
2800
2750
2700
2650

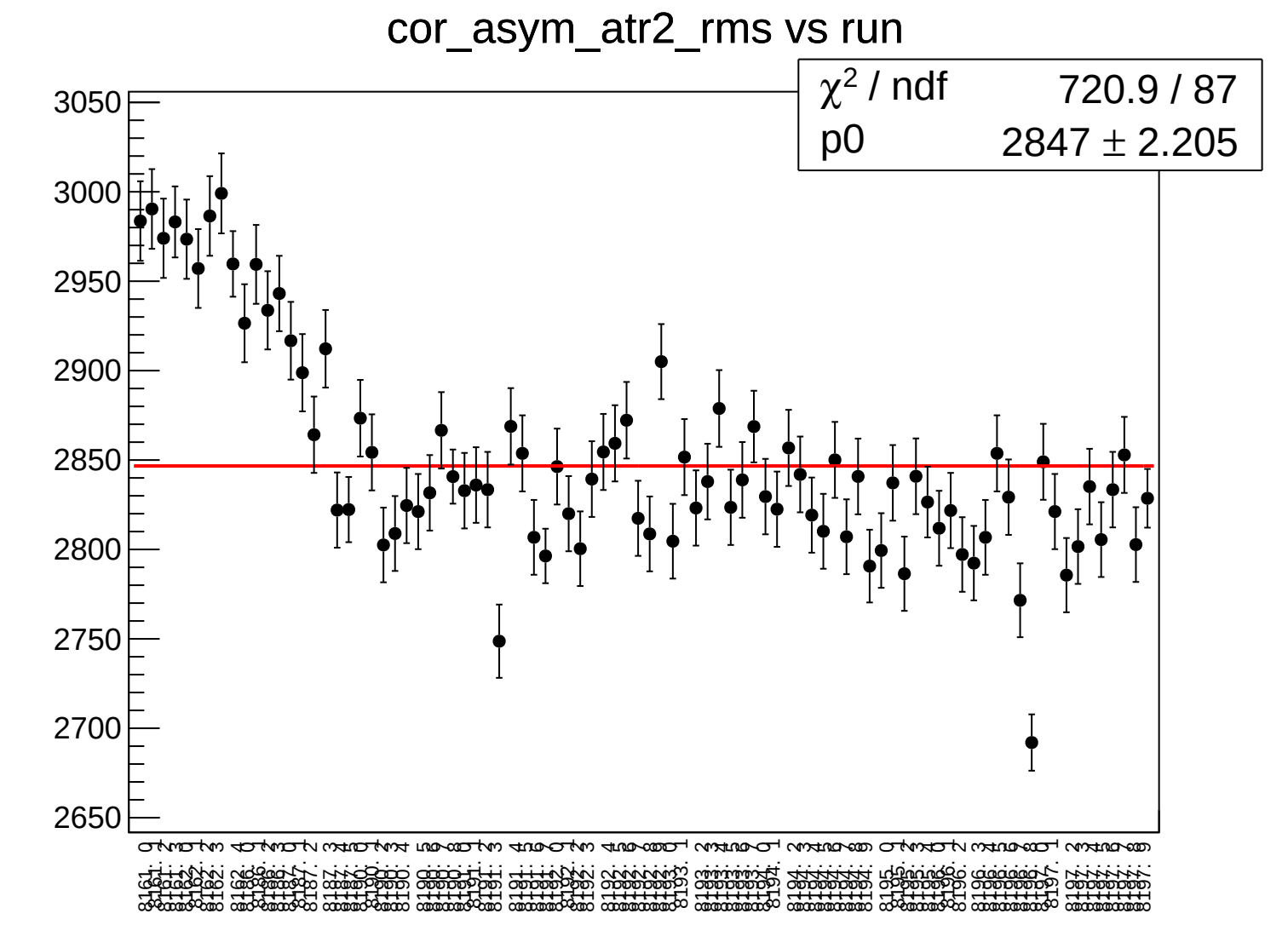

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 79.66 / 87
p0 8941± 1.639e+04
pull
Entries 88
Mean −487.4
Std Dev 0

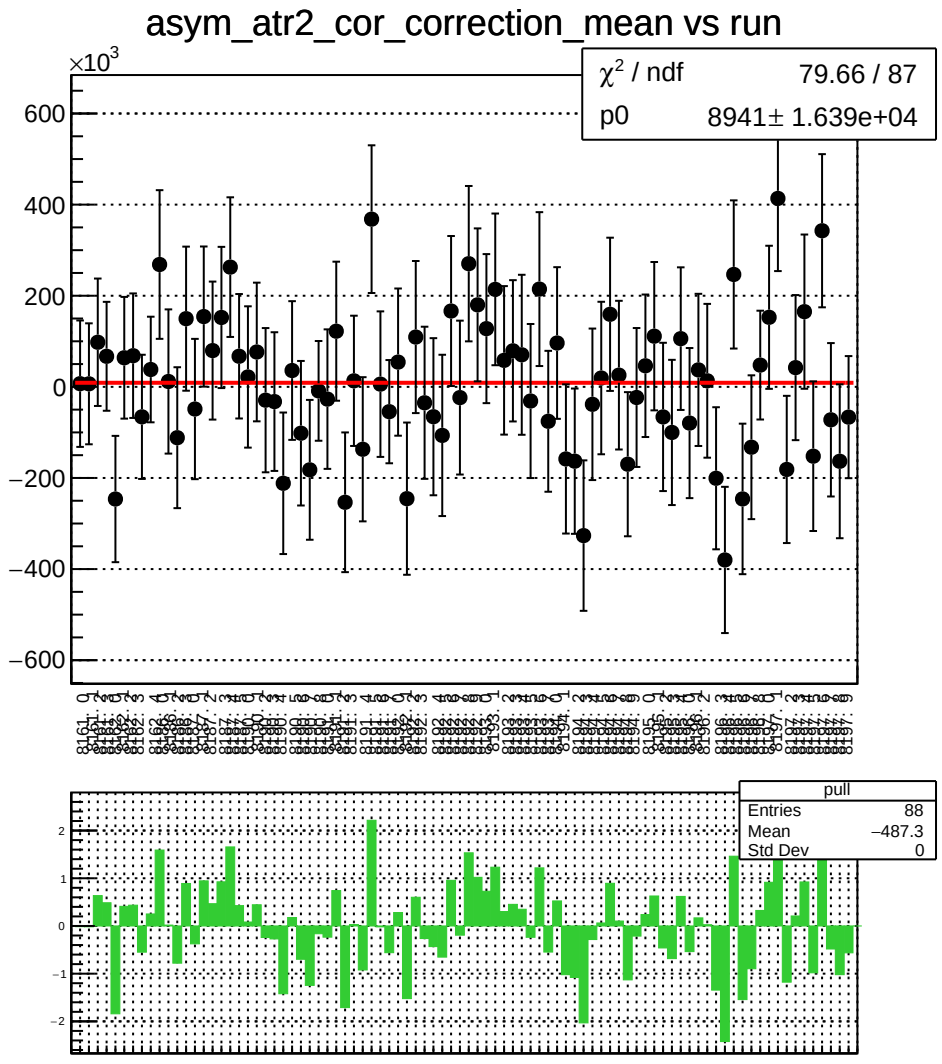

pull1D
Entries 88
Mean 0.003902
Std Dev 0.9514

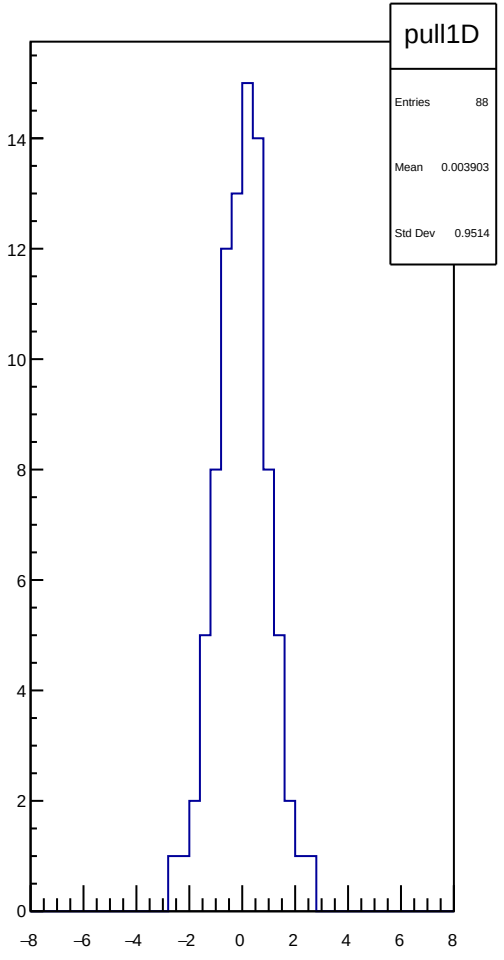

asym_atr2_reg_correction_rms vs run
χ² / ndf 7365 / 87
p0 1.493e+04 ± 11.59
17000
16000
15000
14000
13000

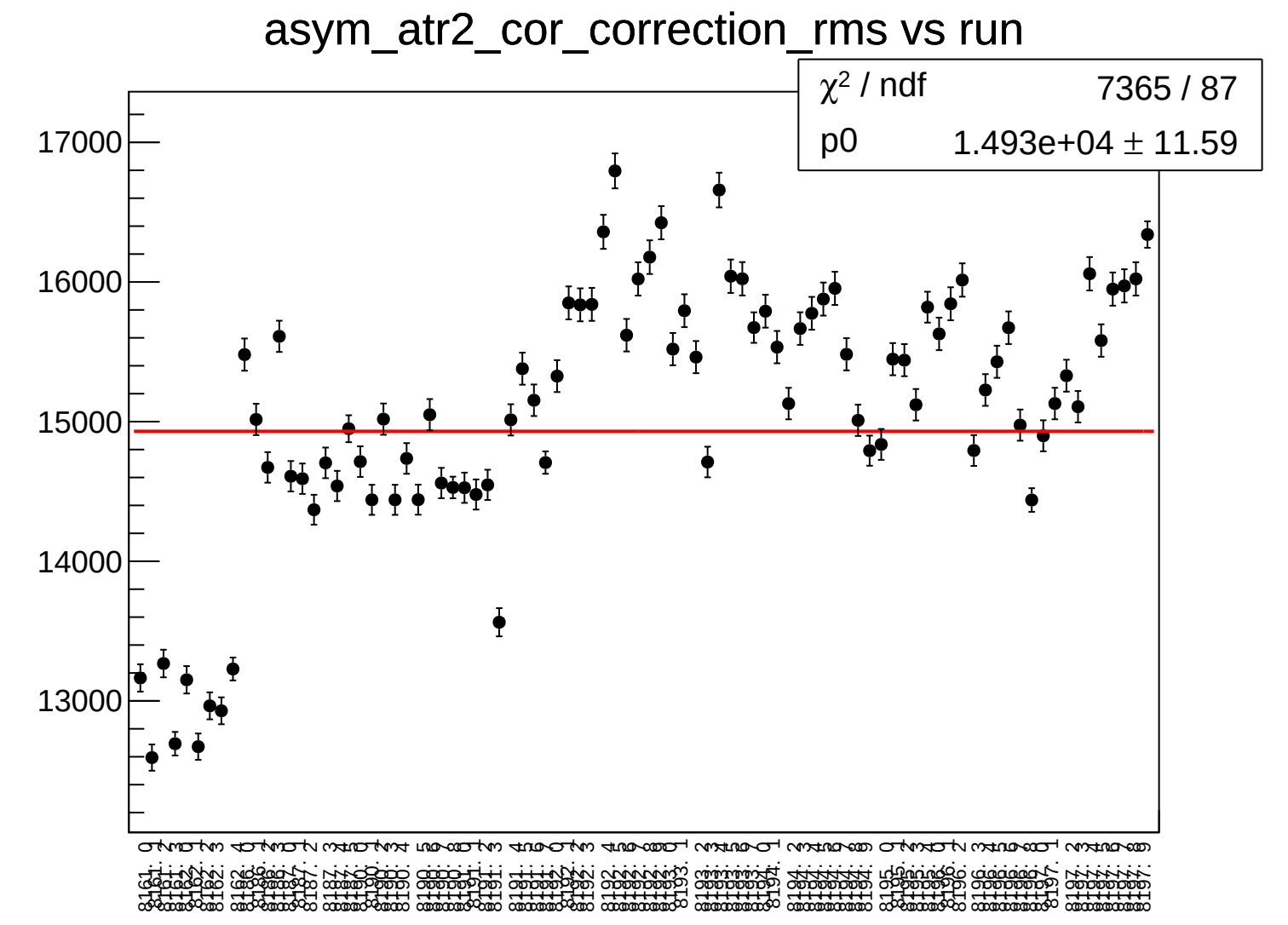

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 95.83 / 87
p0 −3493 ± 3119
100
50
0
−50
−100
pull
Entries 88
Mean −335.2
Std Dev 0
2
1
0
−1
−2

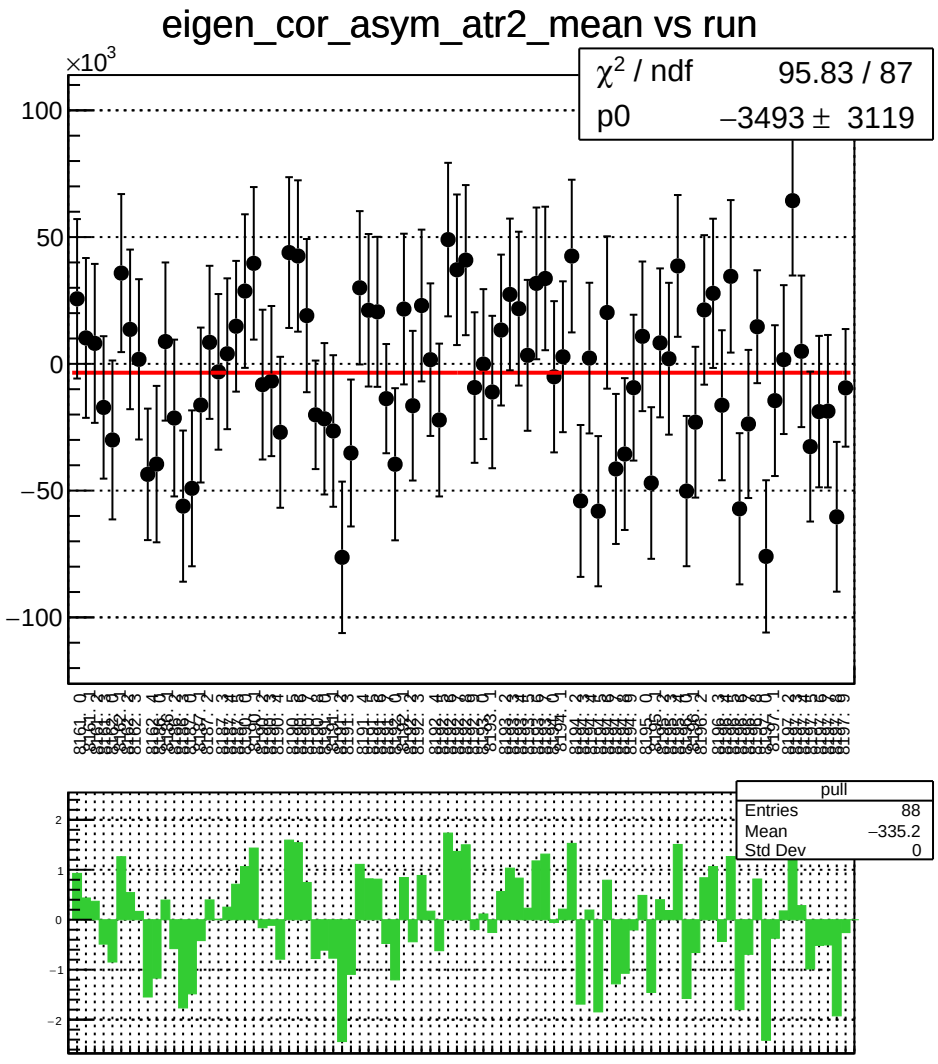

pull1D
Entries 88
Mean 0.004946
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

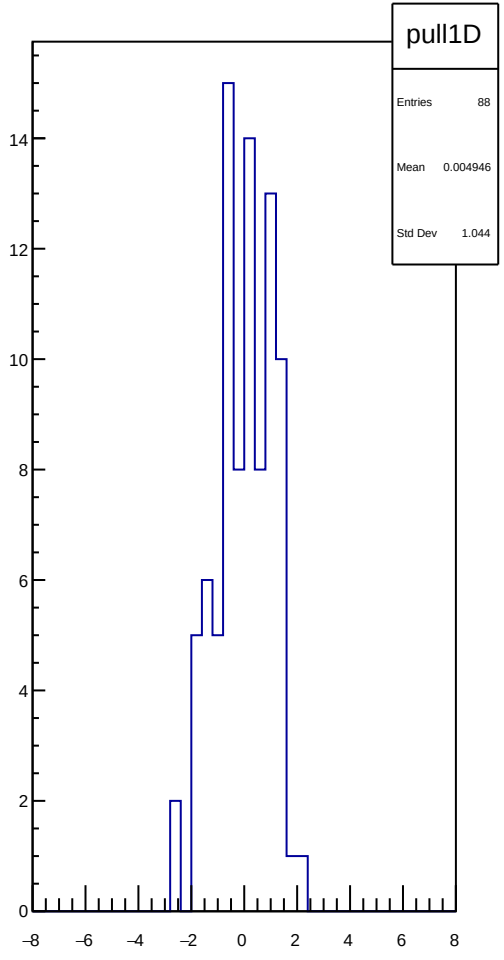

cor_asym_atr2_rms vs run
χ² / ndf 720.9 / 87
p0 2847 ± 2.205
3050
3000
2950
2900
2850
2800
2750
2700
2650

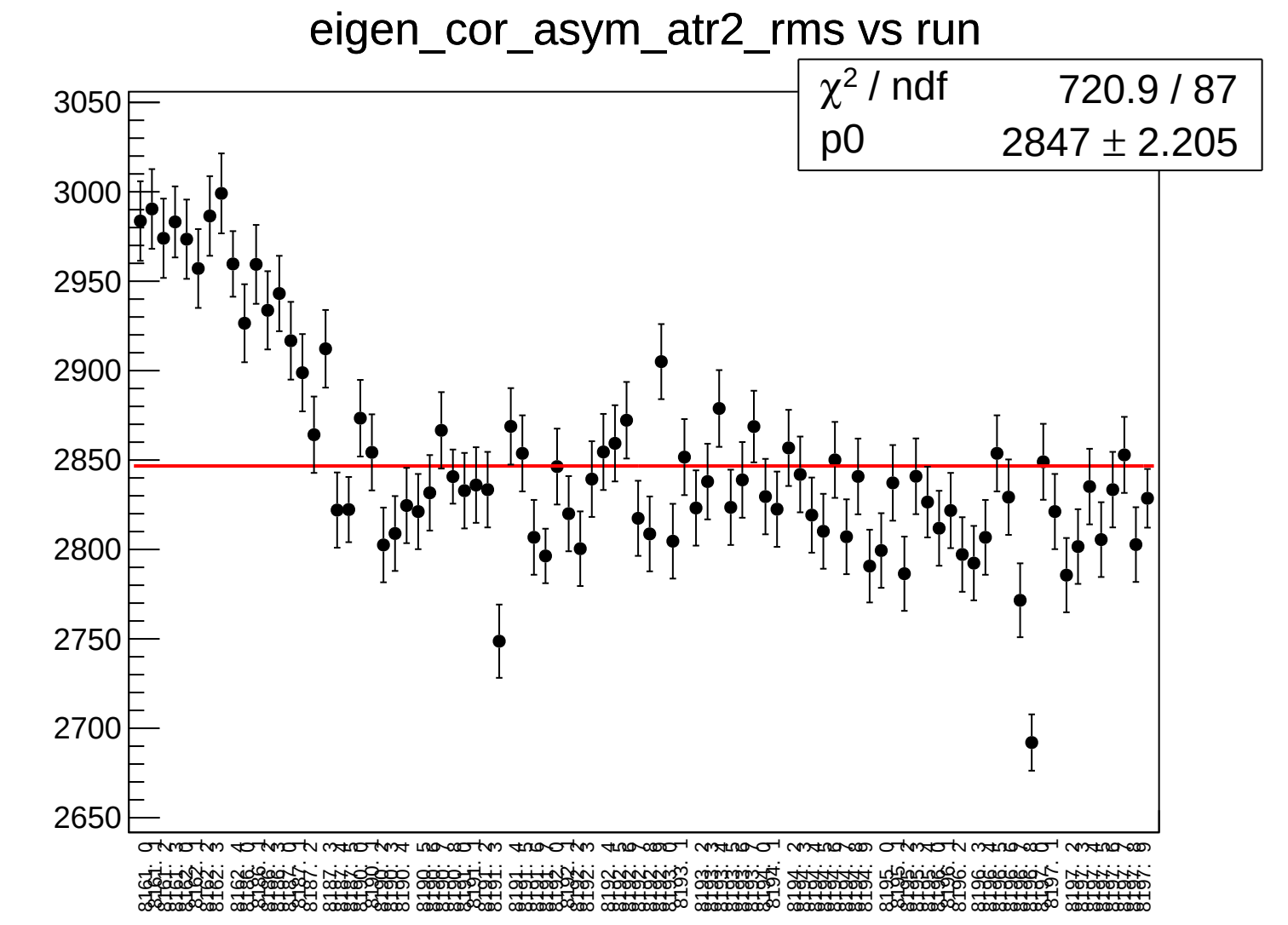

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 79.66 / 87
p0 8941± 1.639e+04
pull
Entries 88
Mean −487.3
Std Dev 0

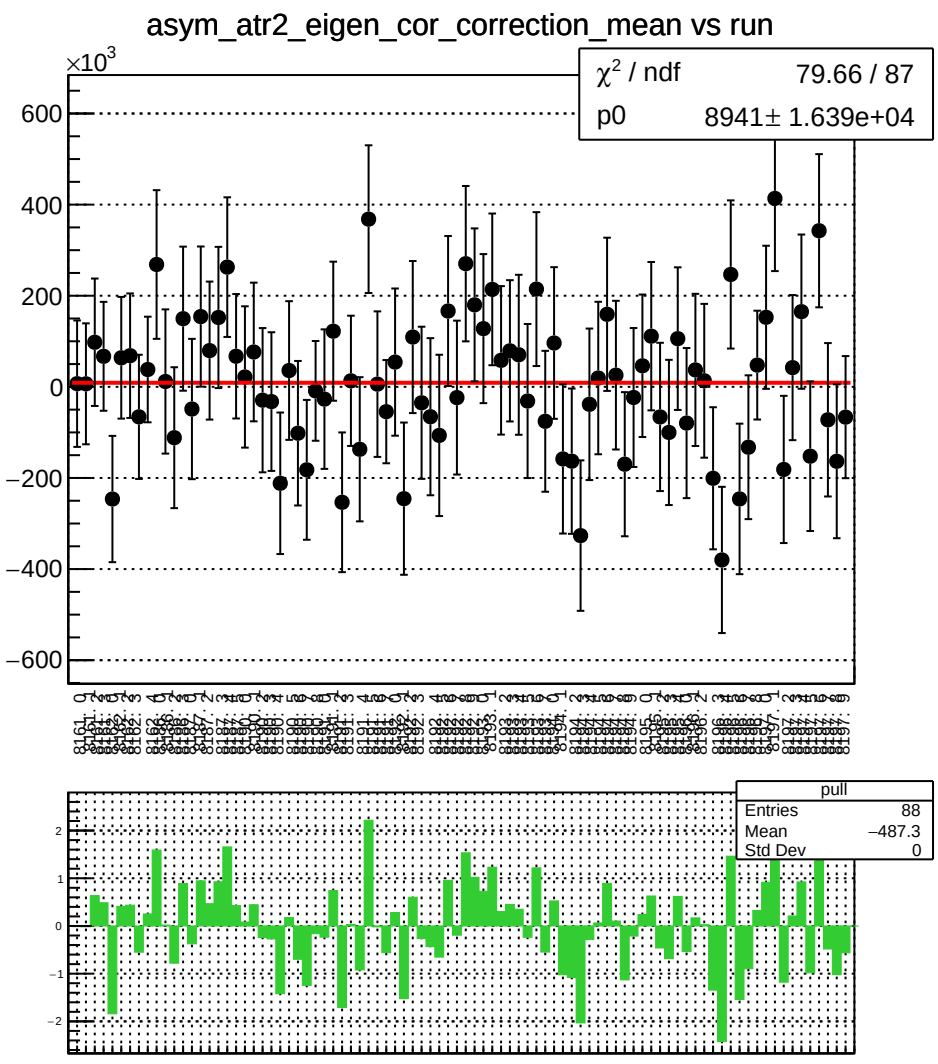

pull1D
Entries 88
Mean 0.003903
Std Dev 0.9514

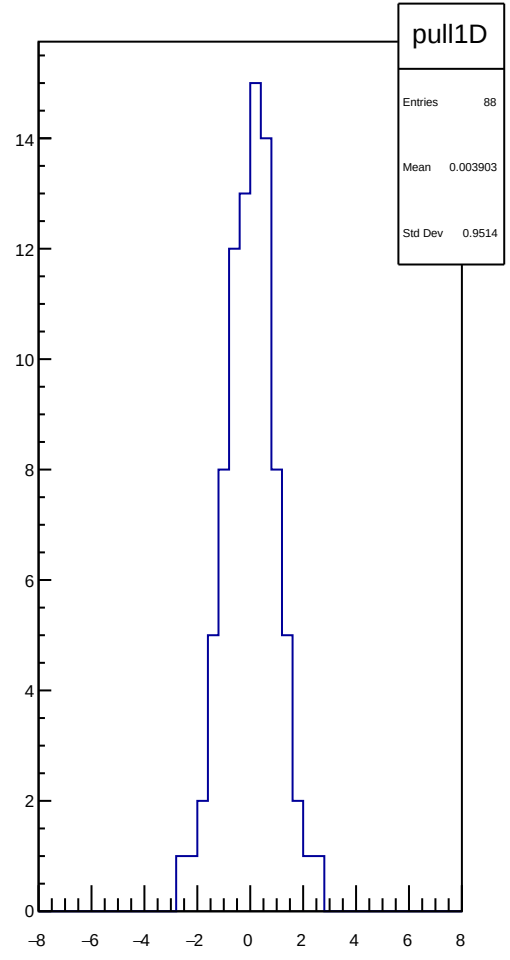

asym_atr2_cor_correction_rms vs run
χ² / ndf 7365 / 87
p0 1.493e+04 ± 11.59
17000
16000
15000
14000
13000

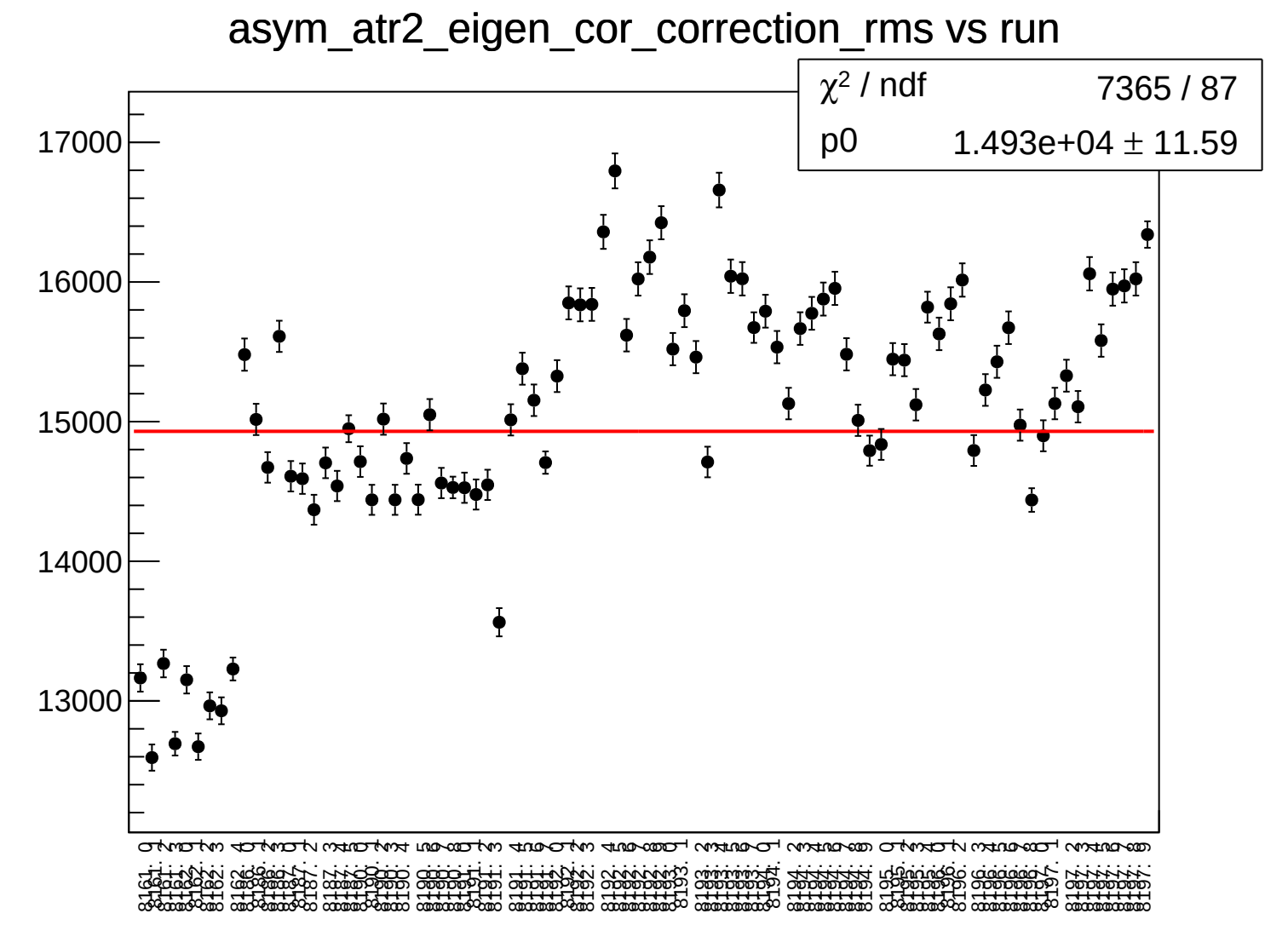

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 95.83 / 87
p0 −3493 ± 3119
100
50
0
−50
−100
pull
Entries 88
Mean −335.2
Std Dev 0
2
1
0
−1
−2

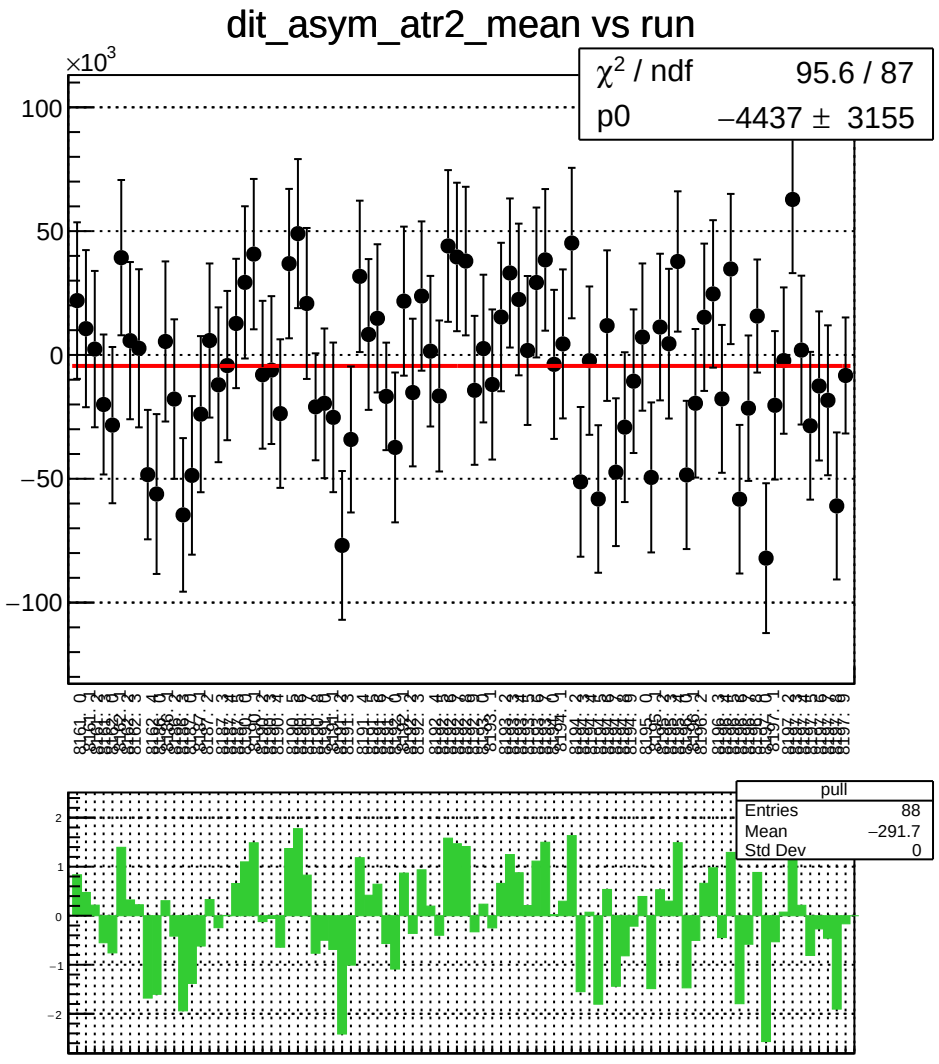

pull1D
Entries 88
Mean 0.004946
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

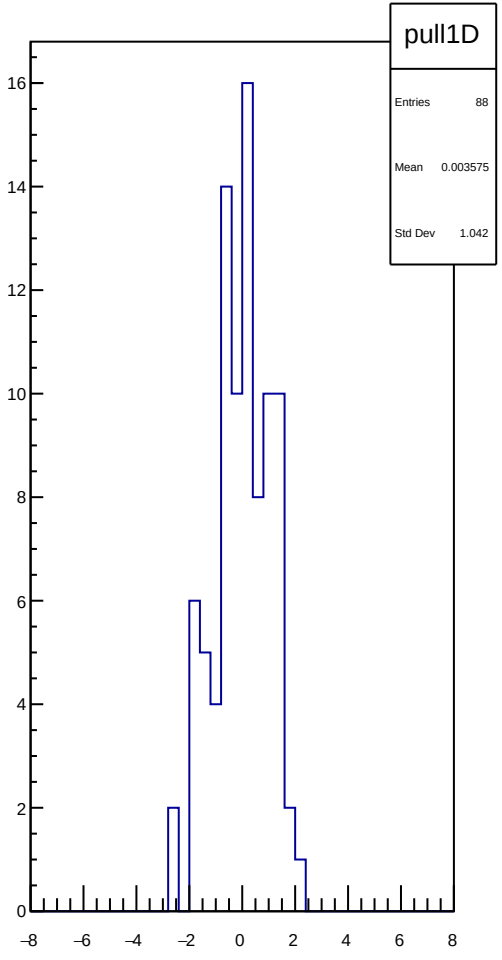

eigen_cor_asym_atr2_rms vs run
χ² / ndf 720.9 / 87
p0 2847 ± 2.205
3050
3000
2950
2900
2850
2800
2750
2700
2650


asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.66 / 87
p0 8941± 1.639e+04
pull
Entries 88
Mean −487.3
Std Dev 0


pull1D
Entries 88
Mean 0.003903
Std Dev 0.9514


asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 7365 / 87
p0 1.493e+04 ± 11.59
17000
16000
15000
14000
13000


dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 95.6 / 87
p0 −4437 ± 3155
100
50
0
−50
−100
pull
Entries 88
Mean −291.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.003575
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
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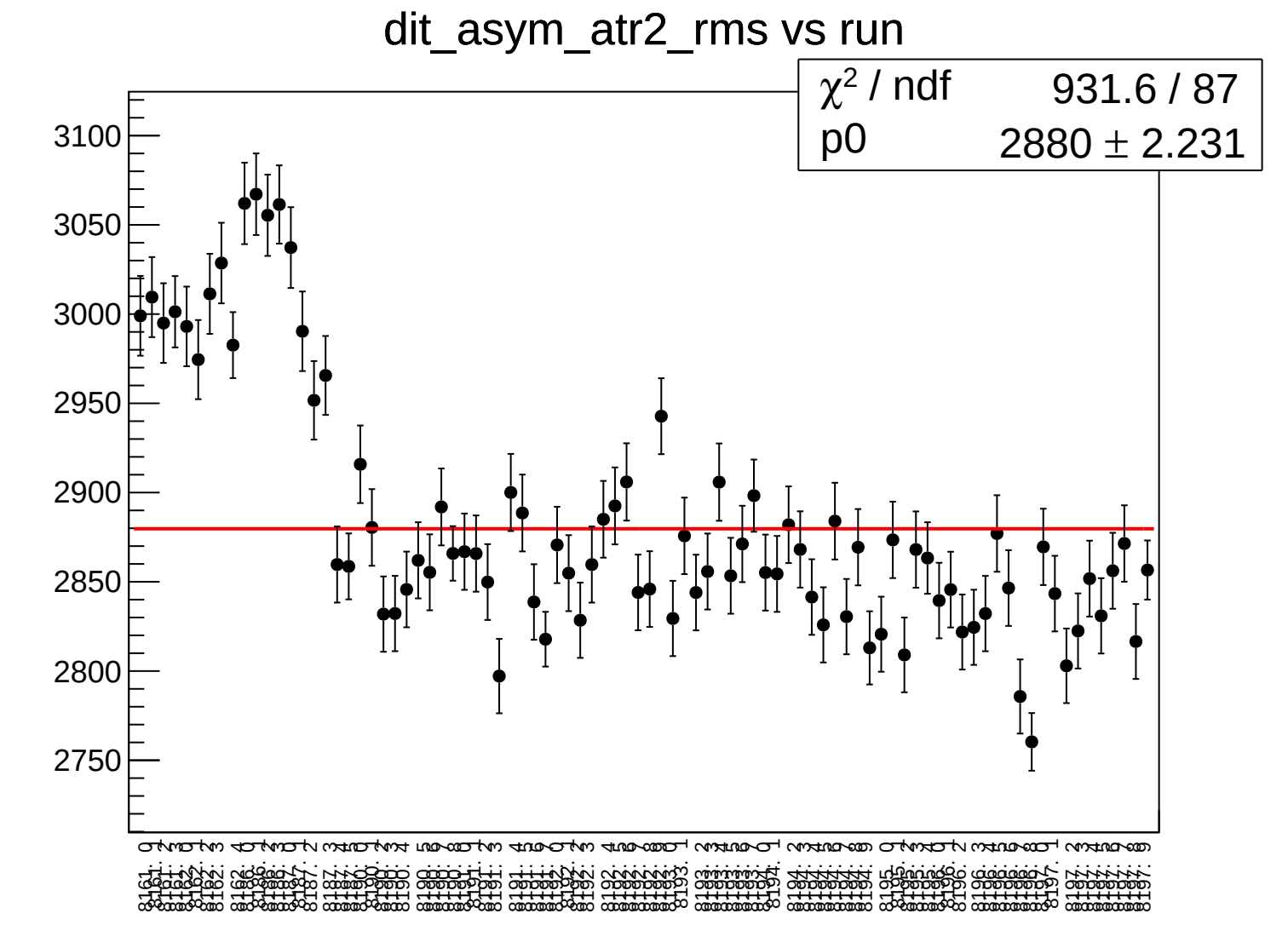
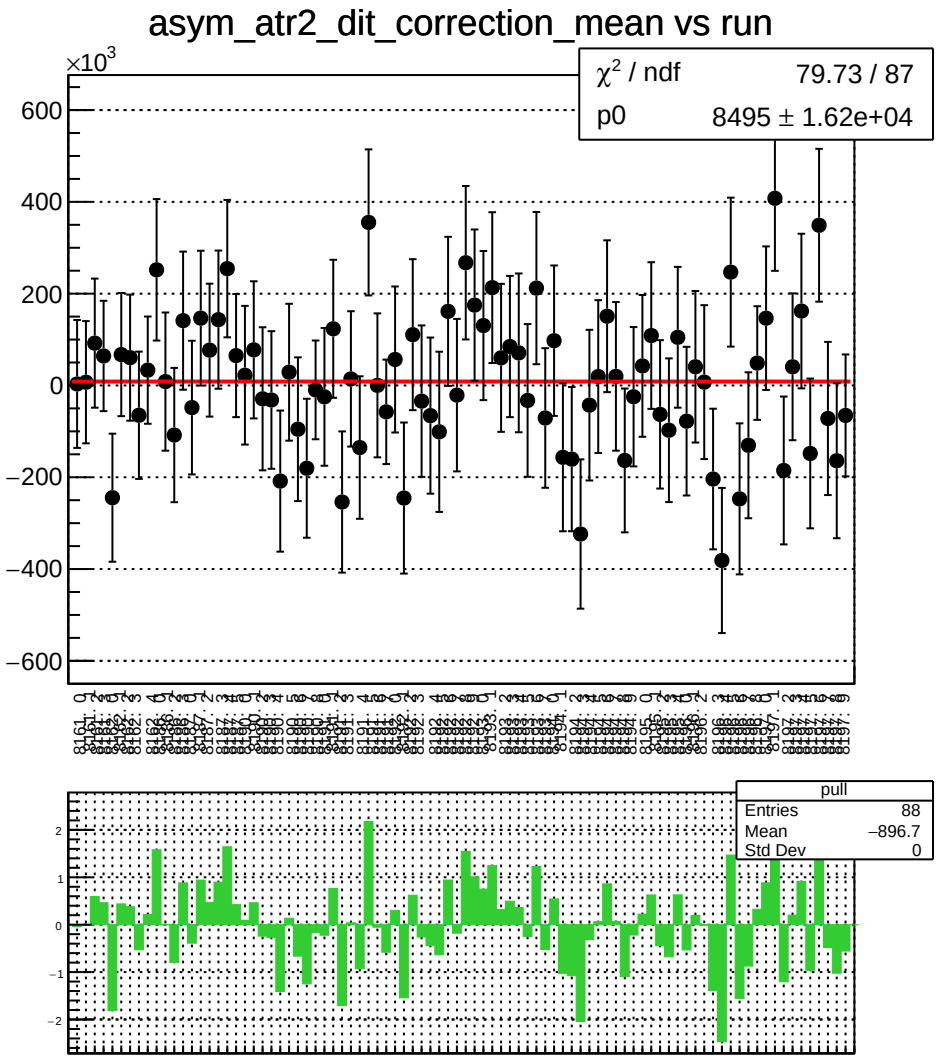
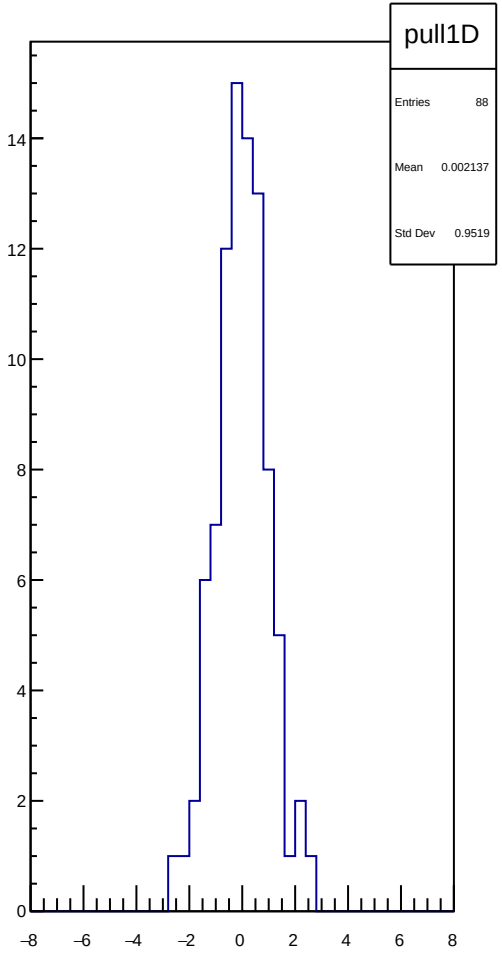
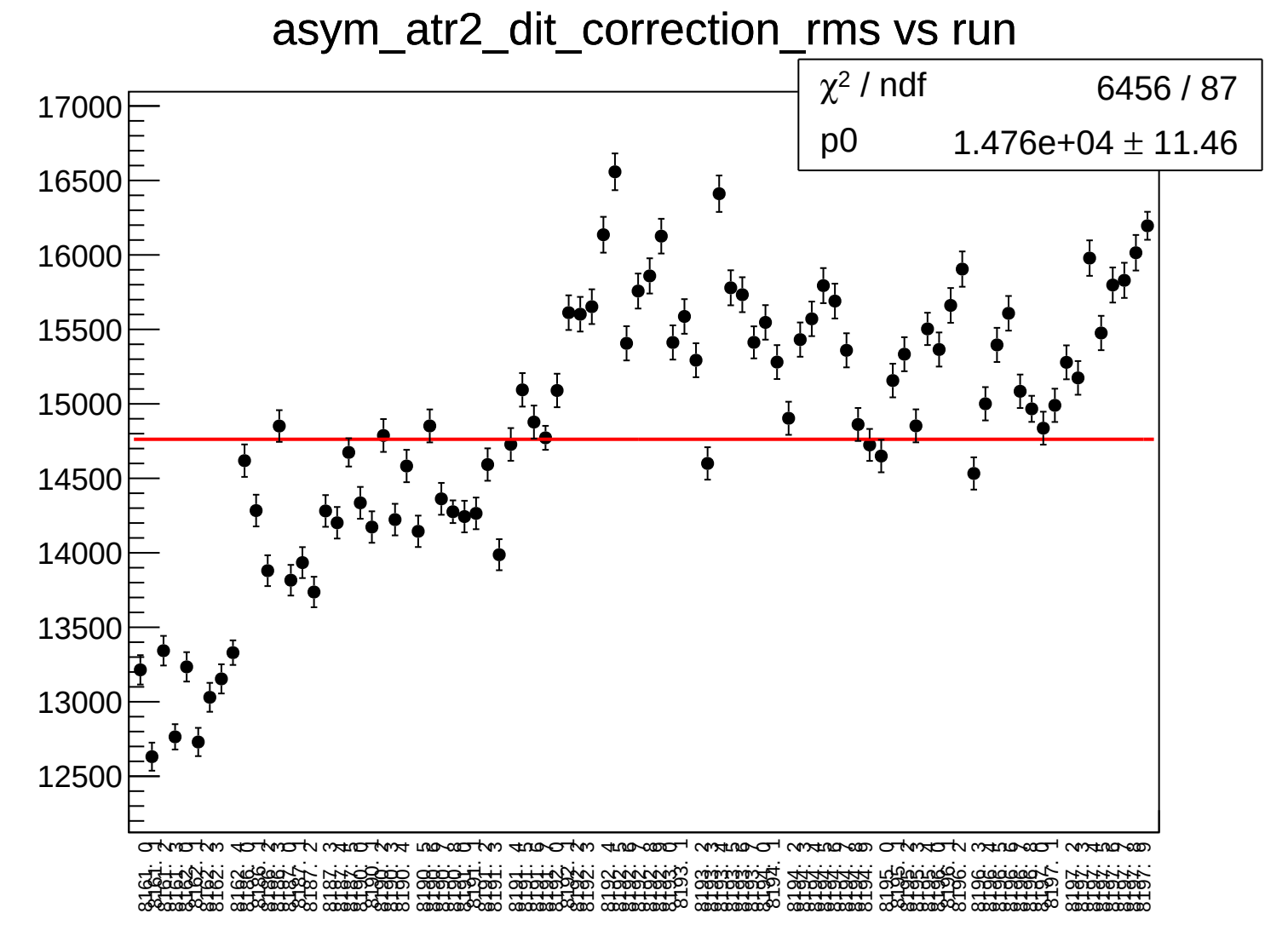
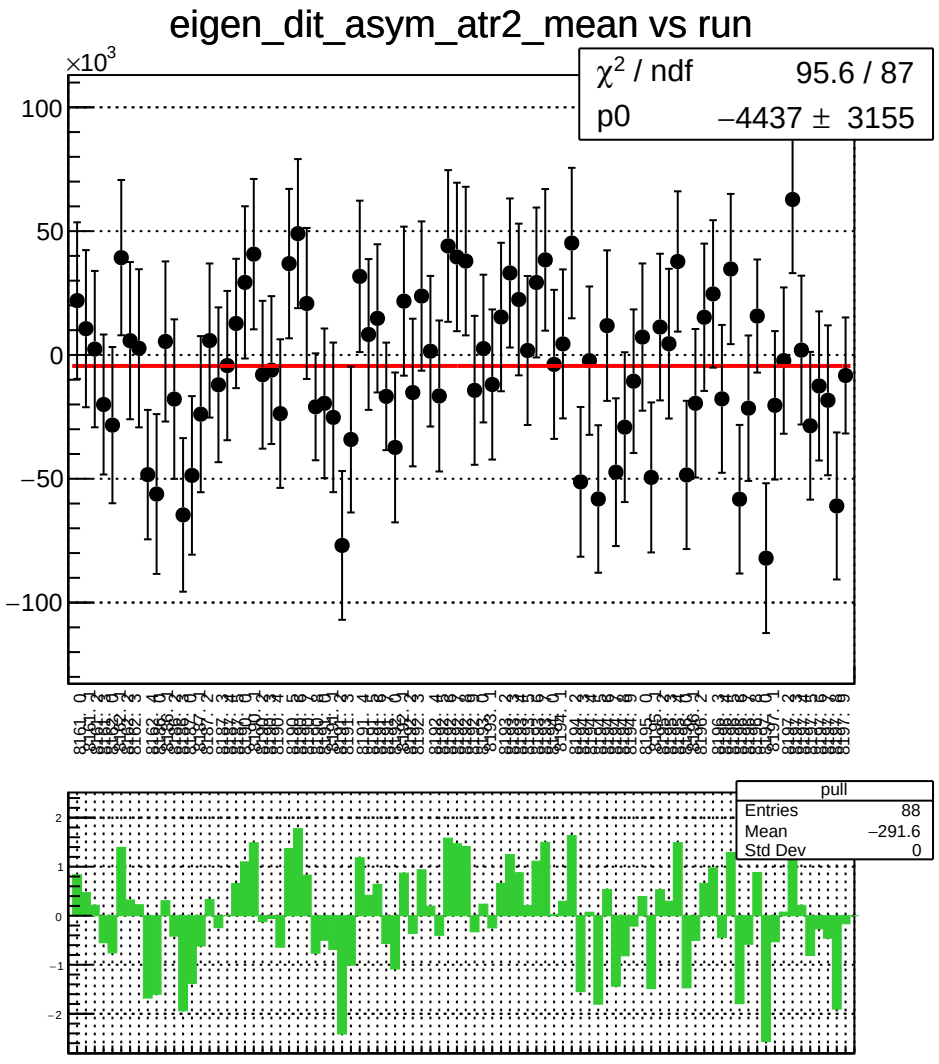
0
2
4
6
8

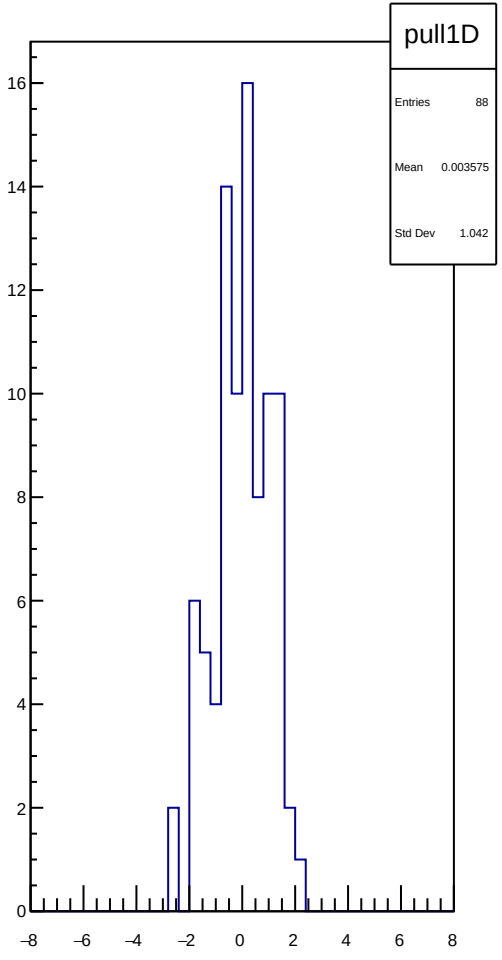

dit_asym_atr2_rms vs run
χ^2 / ndf 931.6 / 87
p0 2880 ± 2.231
3100
3050
3000
2950
2900
2850
2800
2750

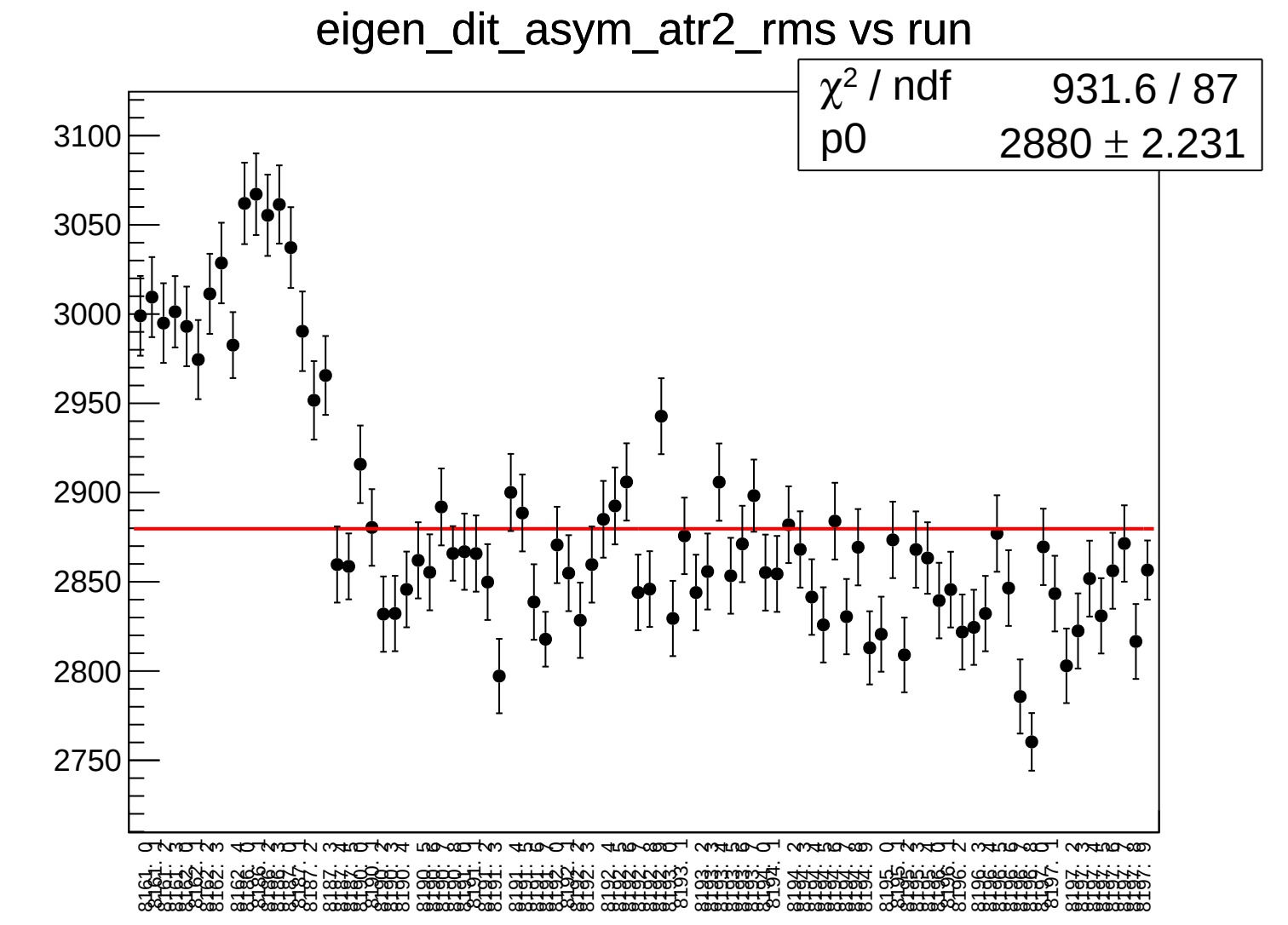

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 79.73 / 87
p0 8495 ± 1.62e+04
pull
Entries 88
Mean −896.7
Std Dev 0

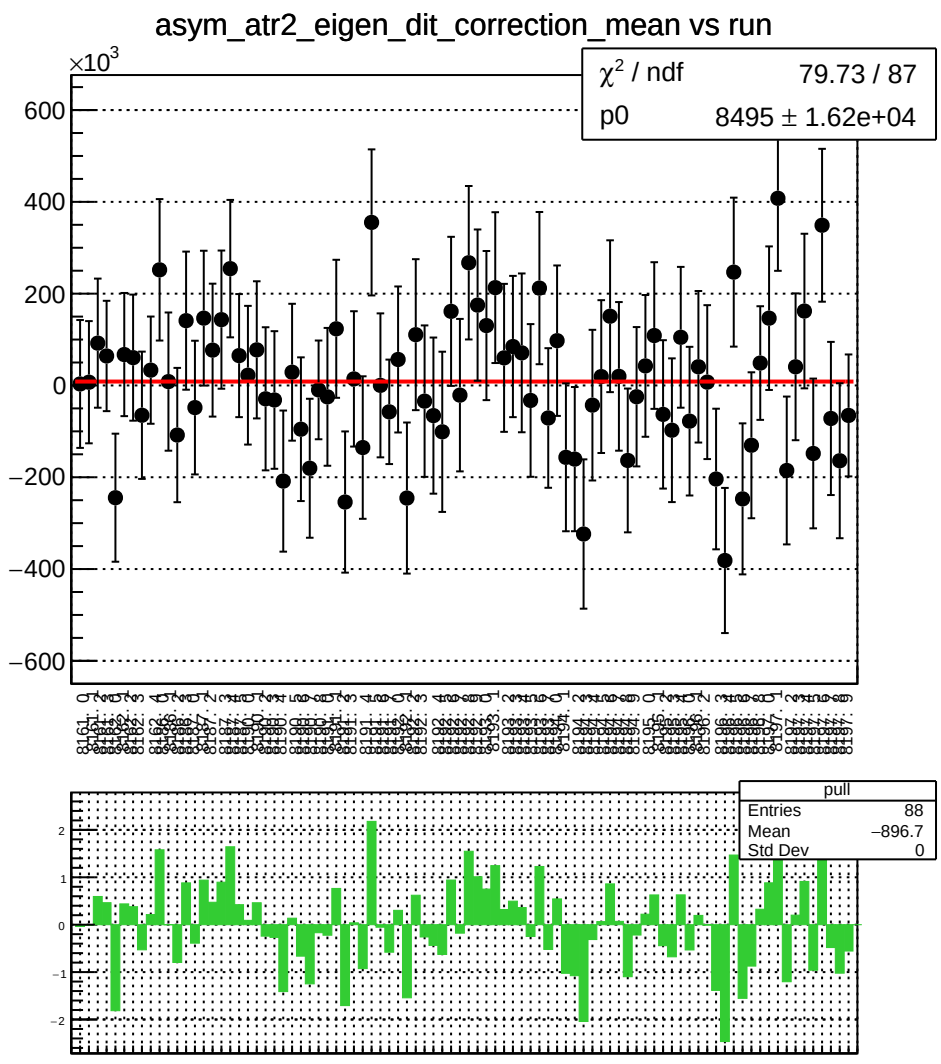

pull1D
Entries 88
Mean 0.002137
Std Dev 0.9519

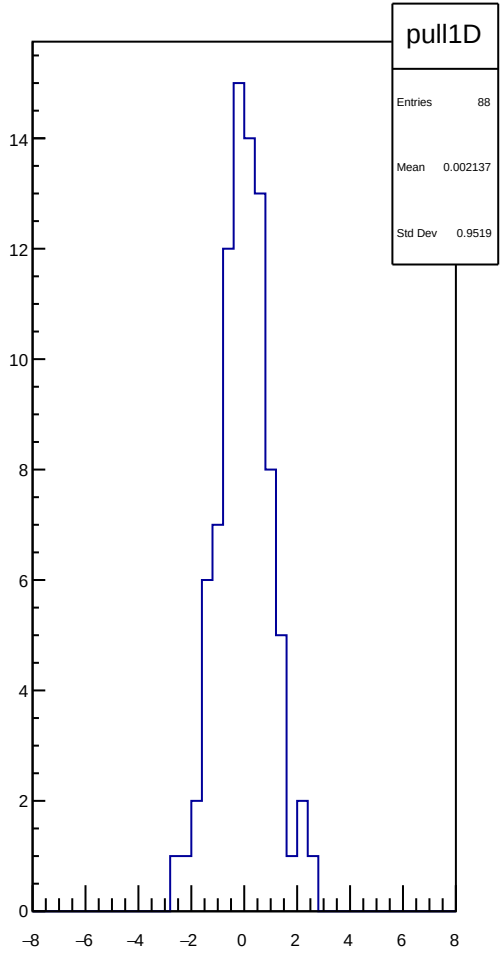

asym_atr2_dit_correction_rms vs run
χ² / ndf 6456 / 87
p0 1.476e+04 ± 11.46
17000
16500
16000
15500
15000
14500
14000
13500
13000
12500

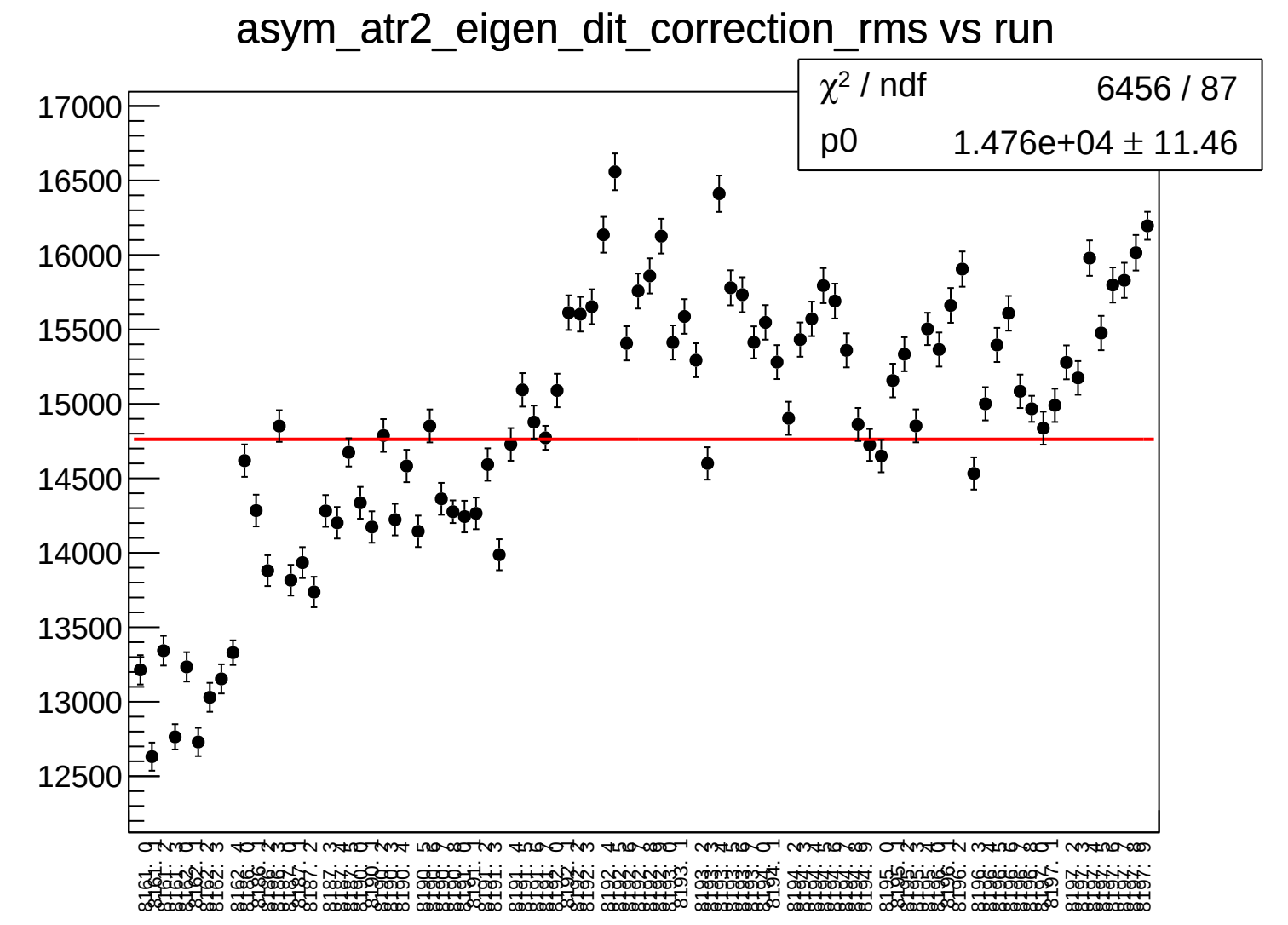

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 95.6 / 87
p0 −4437 ± 3155
100
50
0
−50
−100
pull
Entries 88
Mean −291.6
Std Dev 0
2
1
0
−1
−2

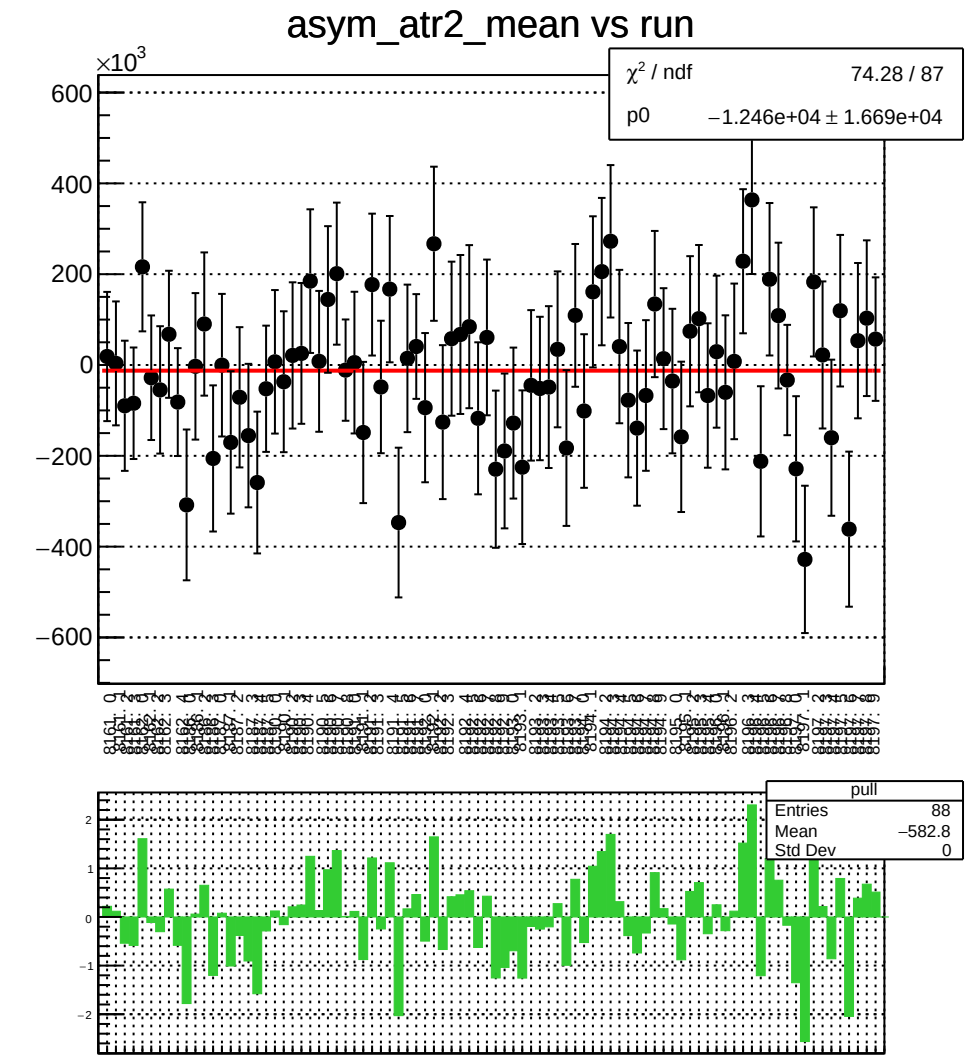

pull1D
Entries 88
Mean 0.003575
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

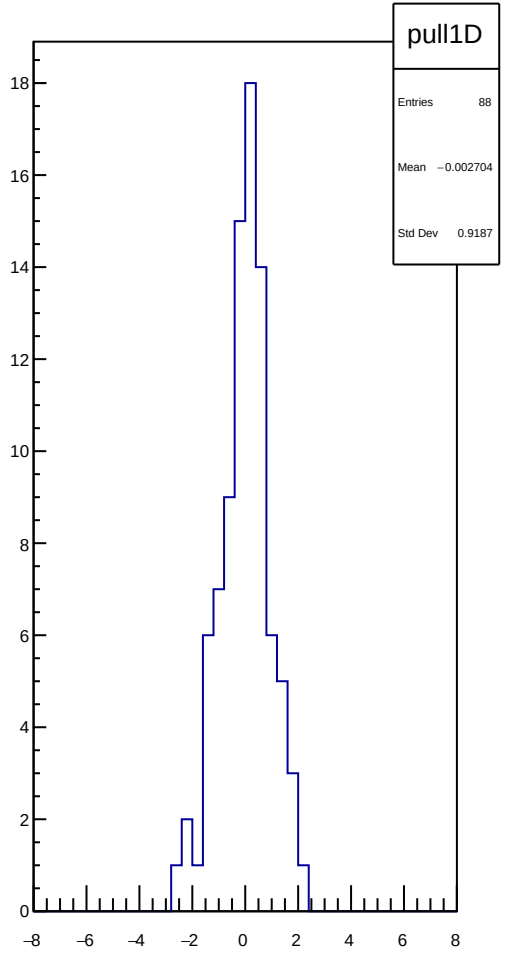

eigen_dit_asym_atr2_rms vs run
χ² / ndf 931.6 / 87
p0 2880 ± 2.231
3100
3050
3000
2950
2900
2850
2800
2750

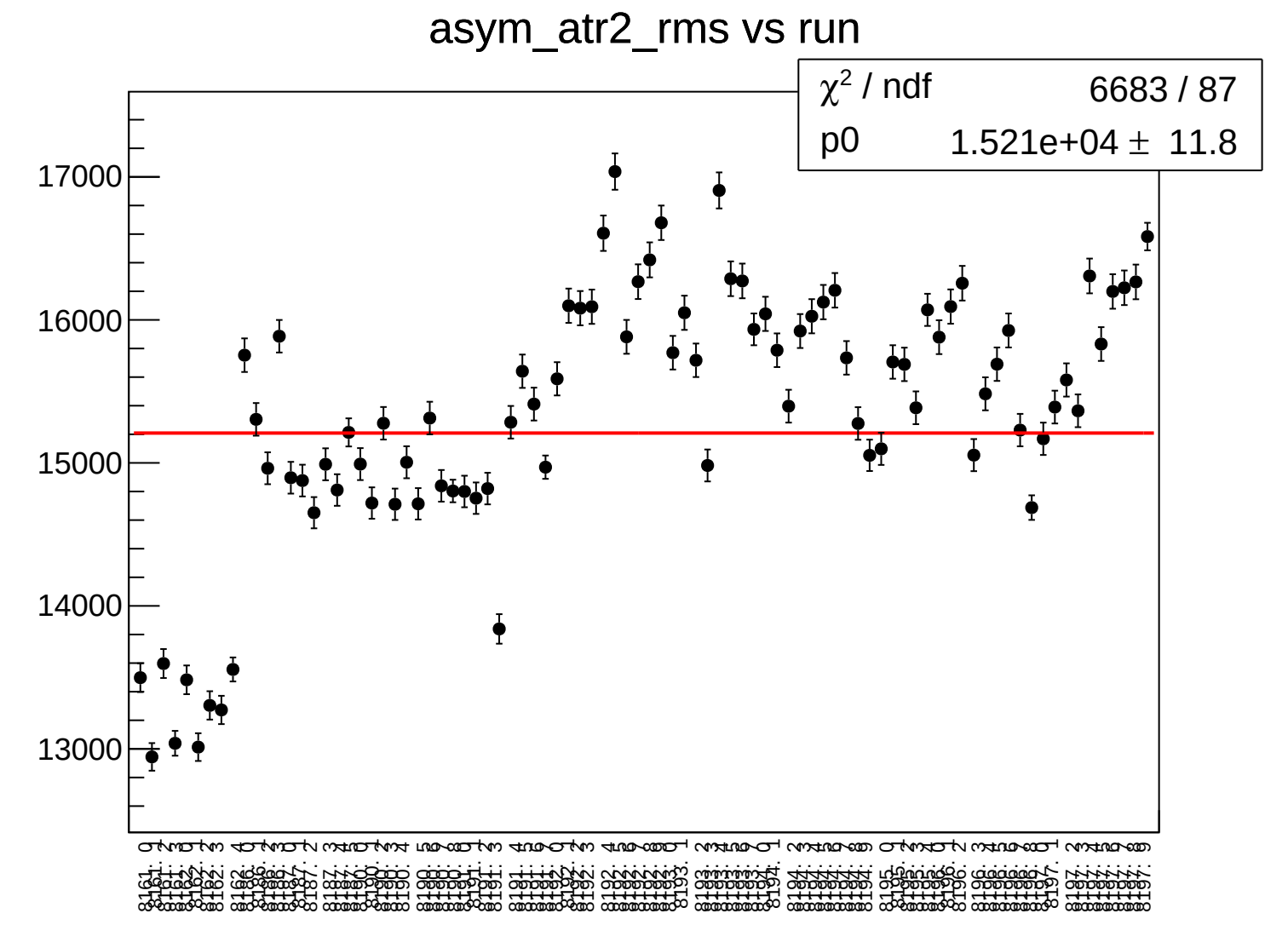

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.73 / 87
p0 8495 ± 1.62e+04
pull
Entries 88
Mean −896.7
Std Dev 0

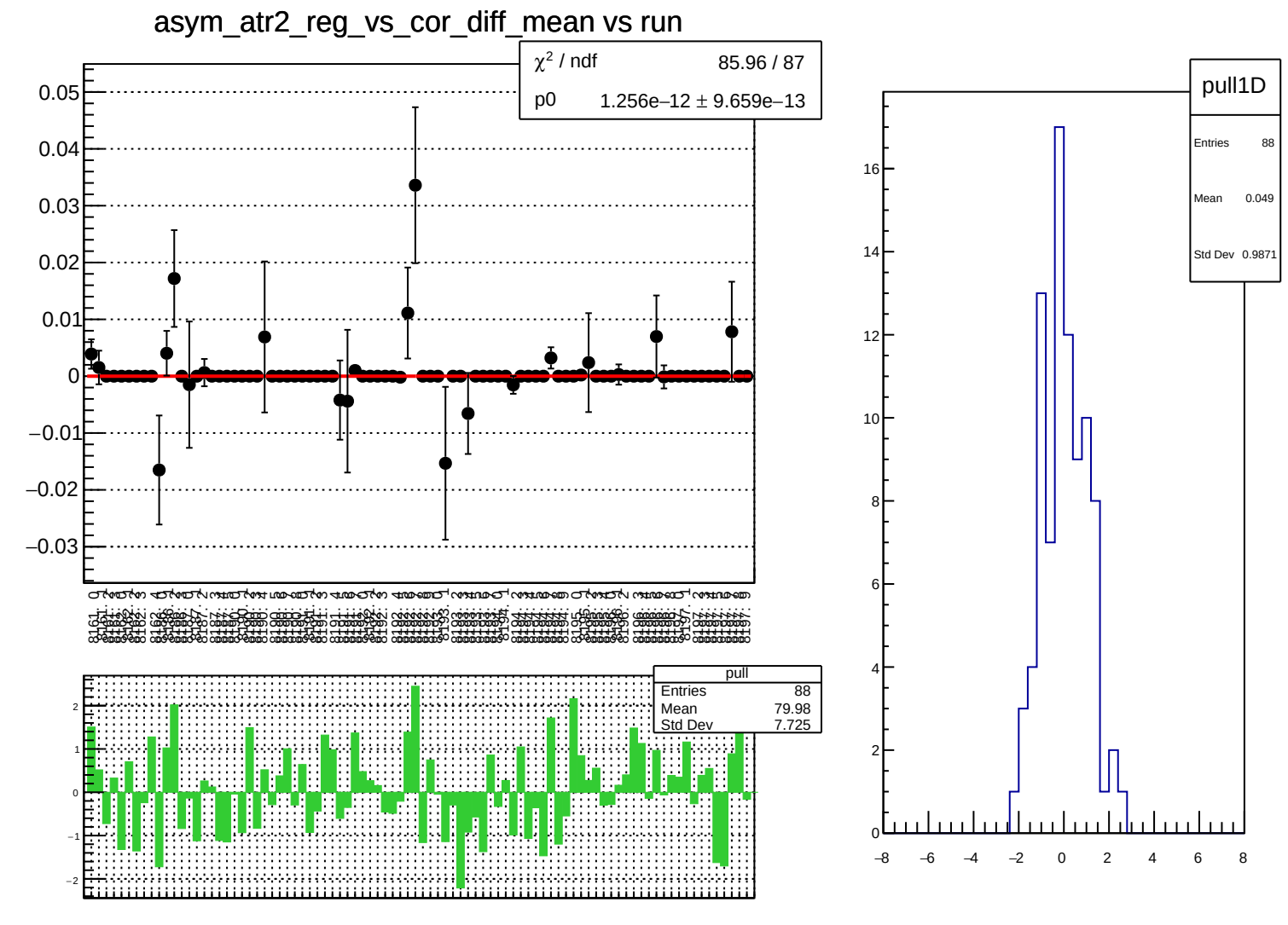

pull1D
Entries 88
Mean 0.002137
Std Dev 0.9519

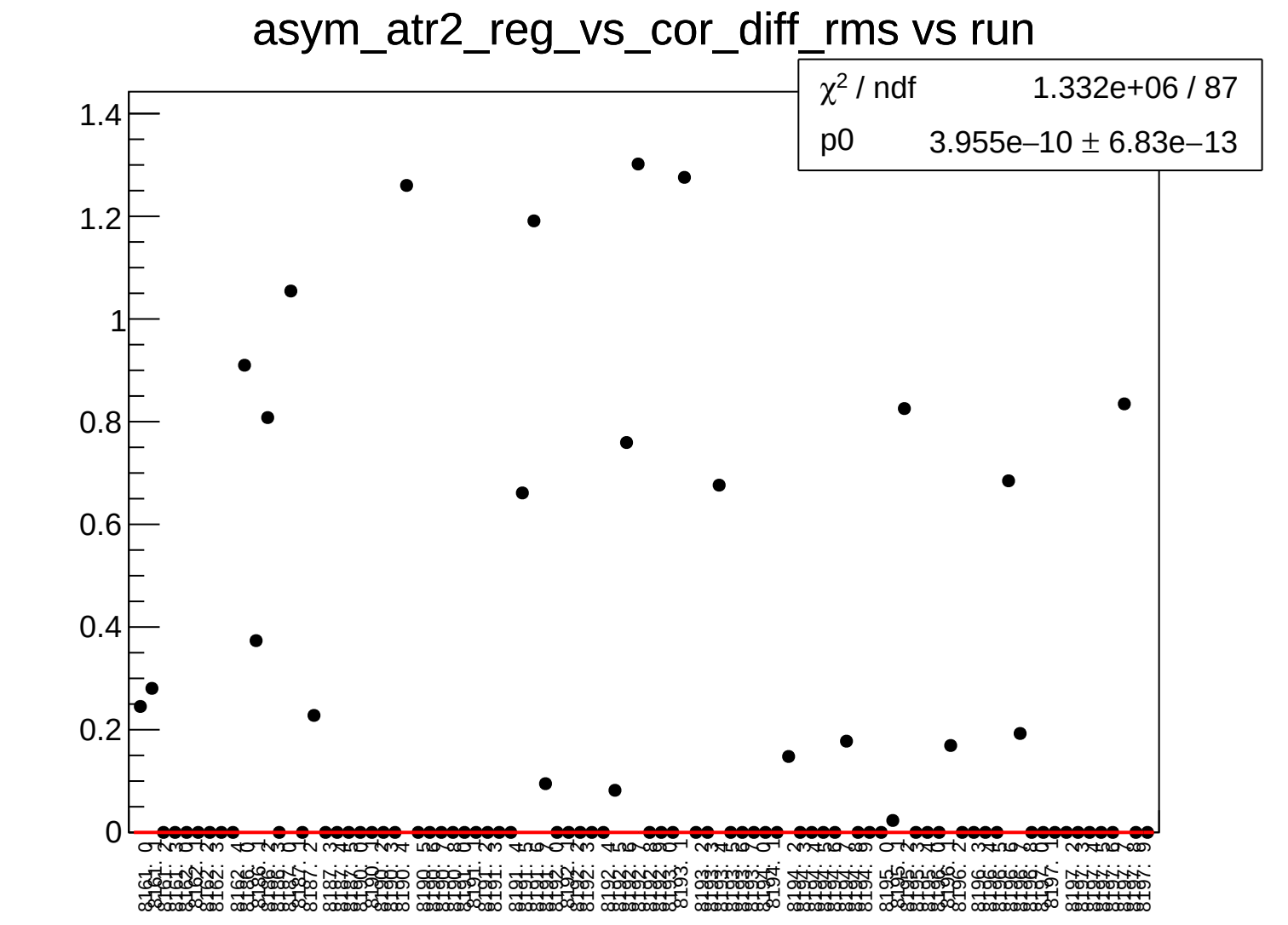

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 6456 / 87
p0 1.476e+04 ± 11.46
17000
16500
16000
15500
15000
14500
14000
13500
13000
12500

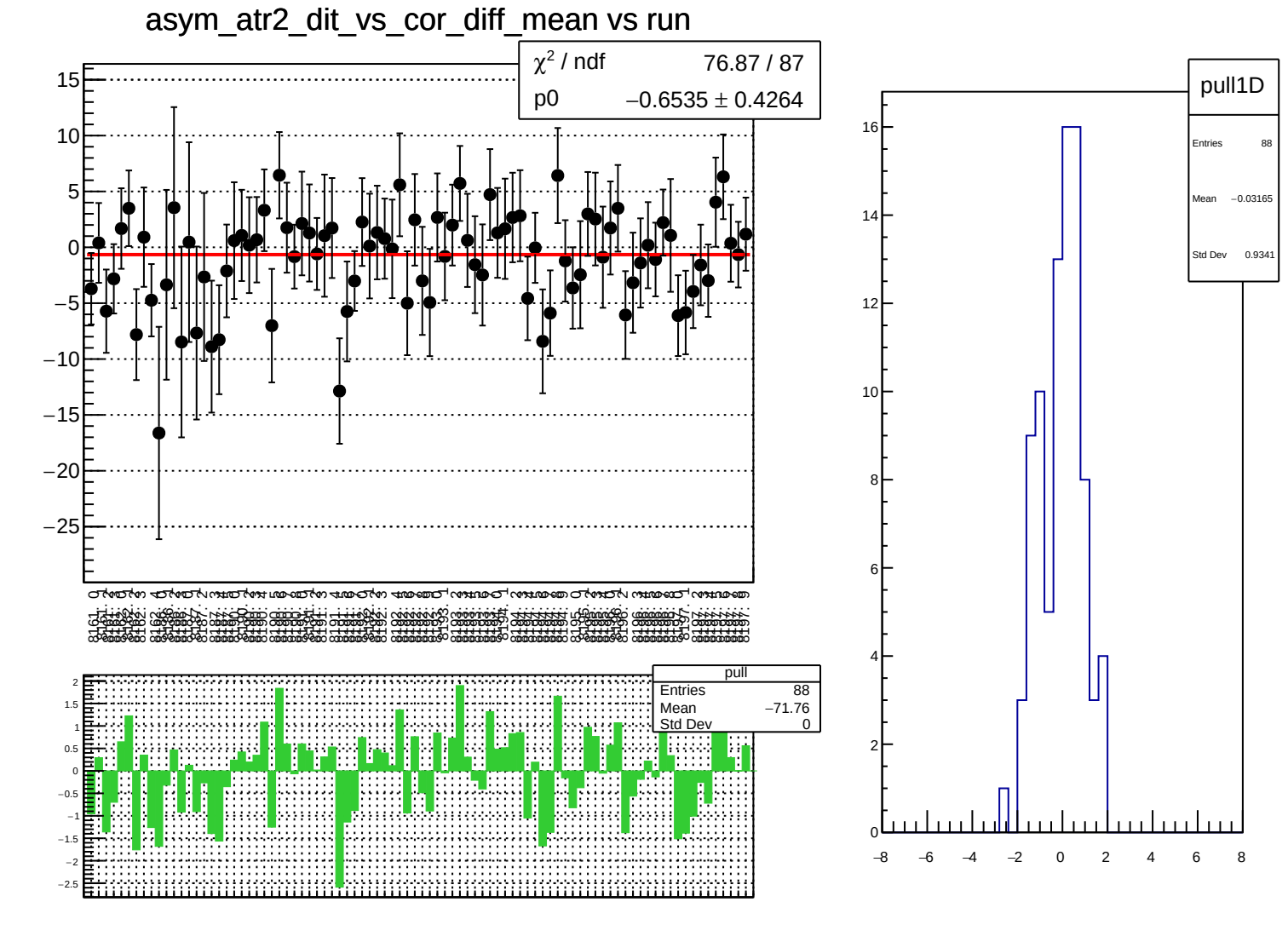

asym_atr2_mean vs run
×10^3
χ² / ndf 74.28 / 87
p0 −1.246e+04 ± 1.669e+04
pull
Entries 88
Mean −582.8
Std Dev 0

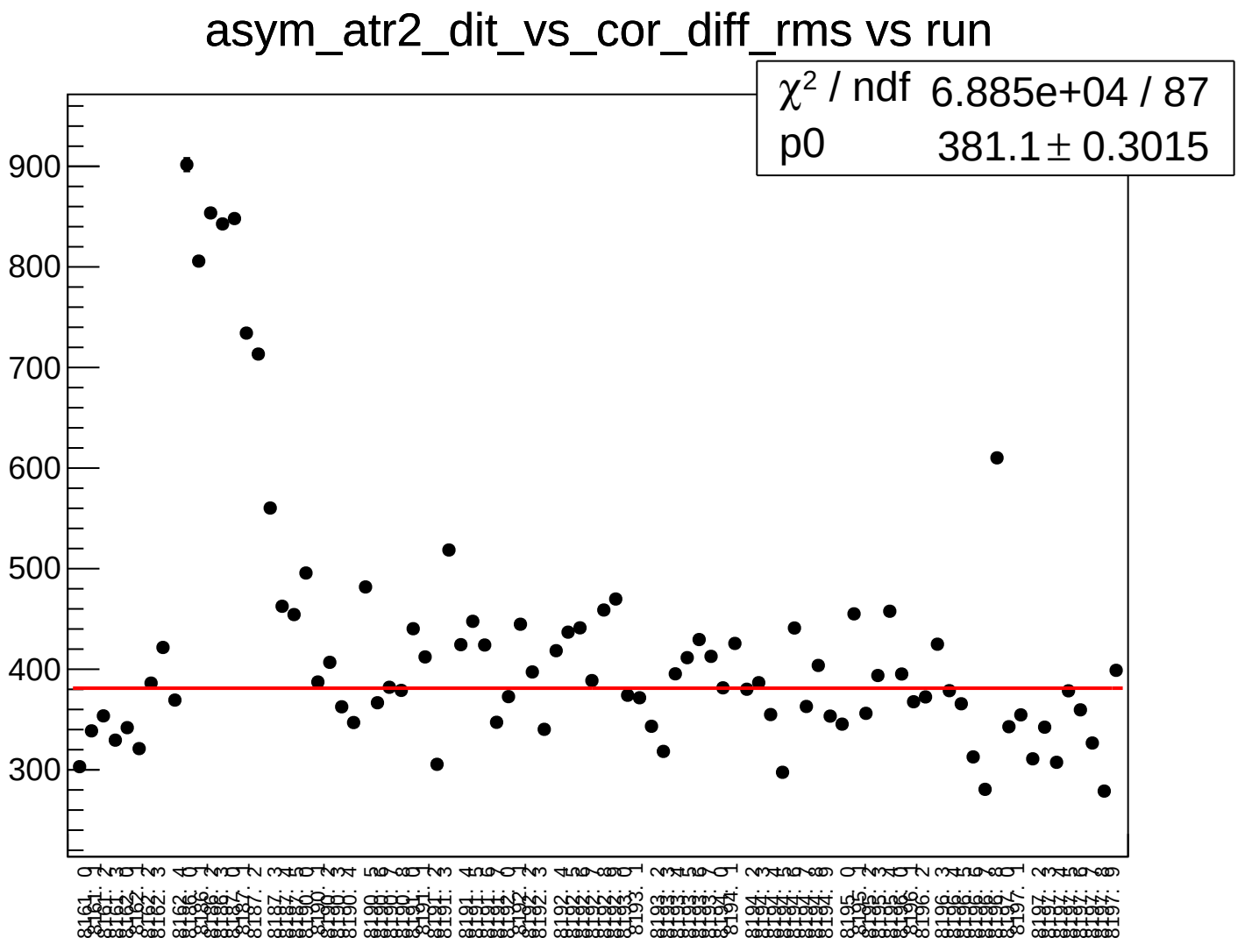

pull1D
Entries 88
Mean −0.002704
Std Dev 0.9187

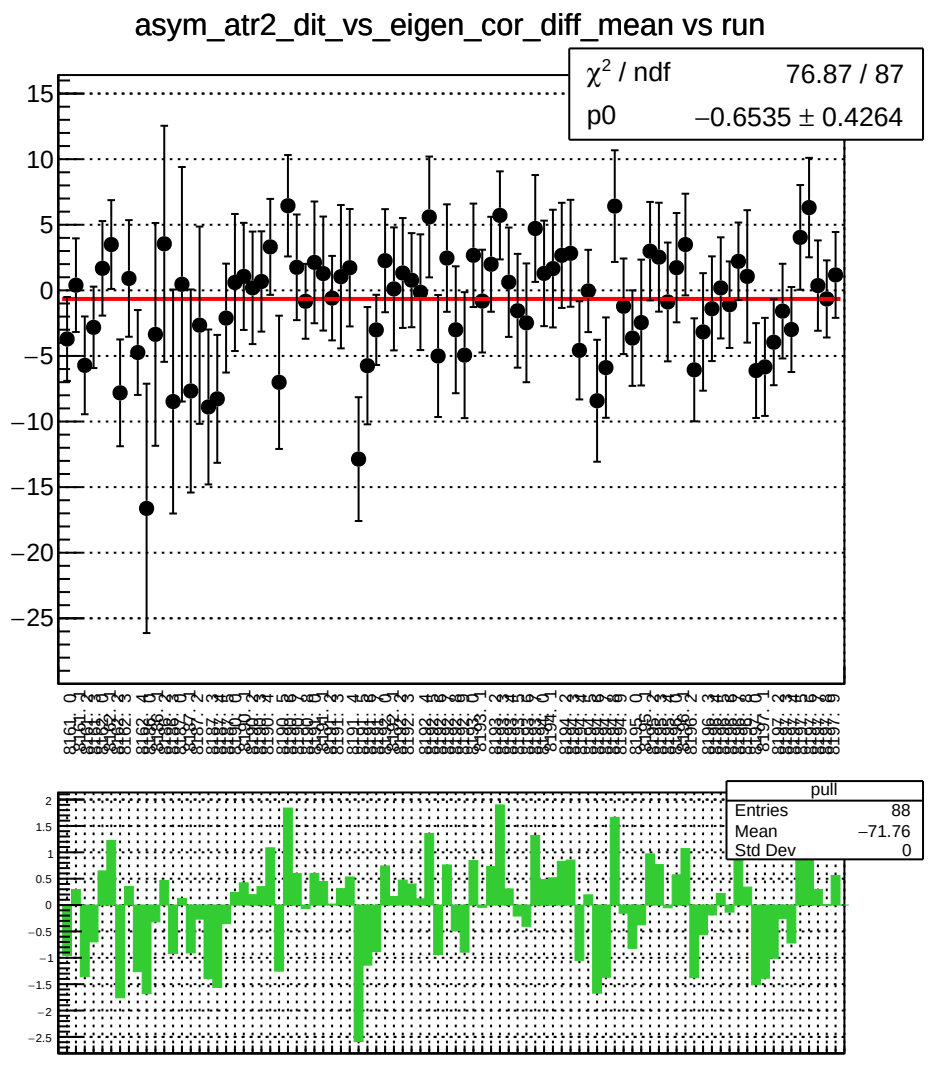

asym_atr2_rms vs run
χ² / ndf 6683 / 87
p0 1.521e+04 ± 11.8
17000
16000
15000
14000
13000

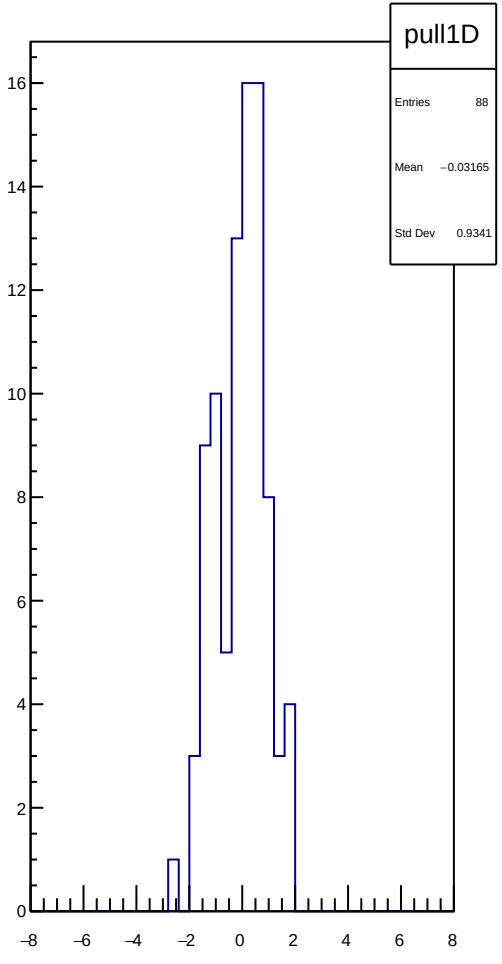

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 85.96 / 87
p0 1.256e−12 ± 9.659e−13
pull
Entries 88
Mean 79.98
Std Dev 7.725
pull1D
Entries 88
Mean 0.049
Std Dev 0.9871

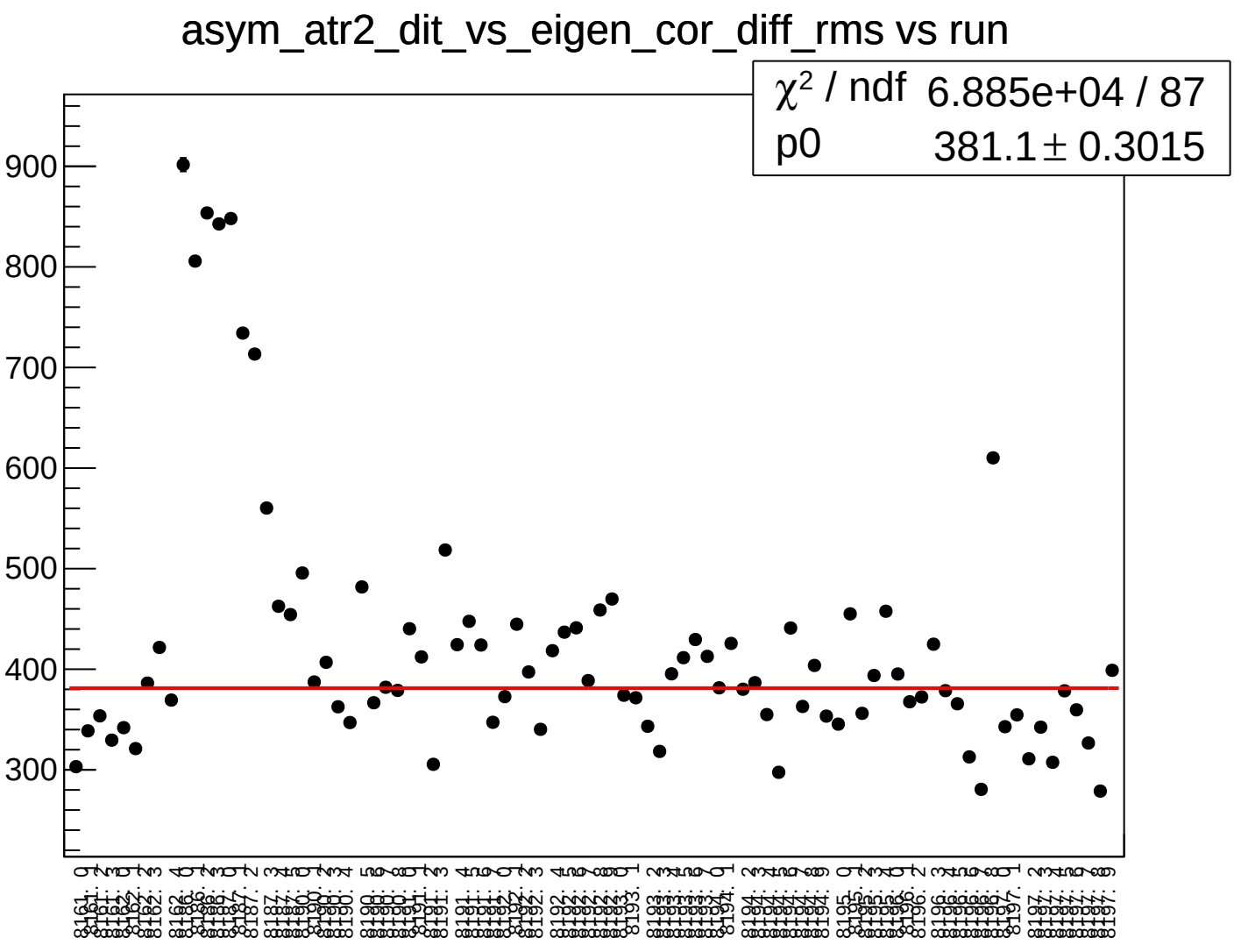

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 87
p0 3.955e−10 ± 6.83e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

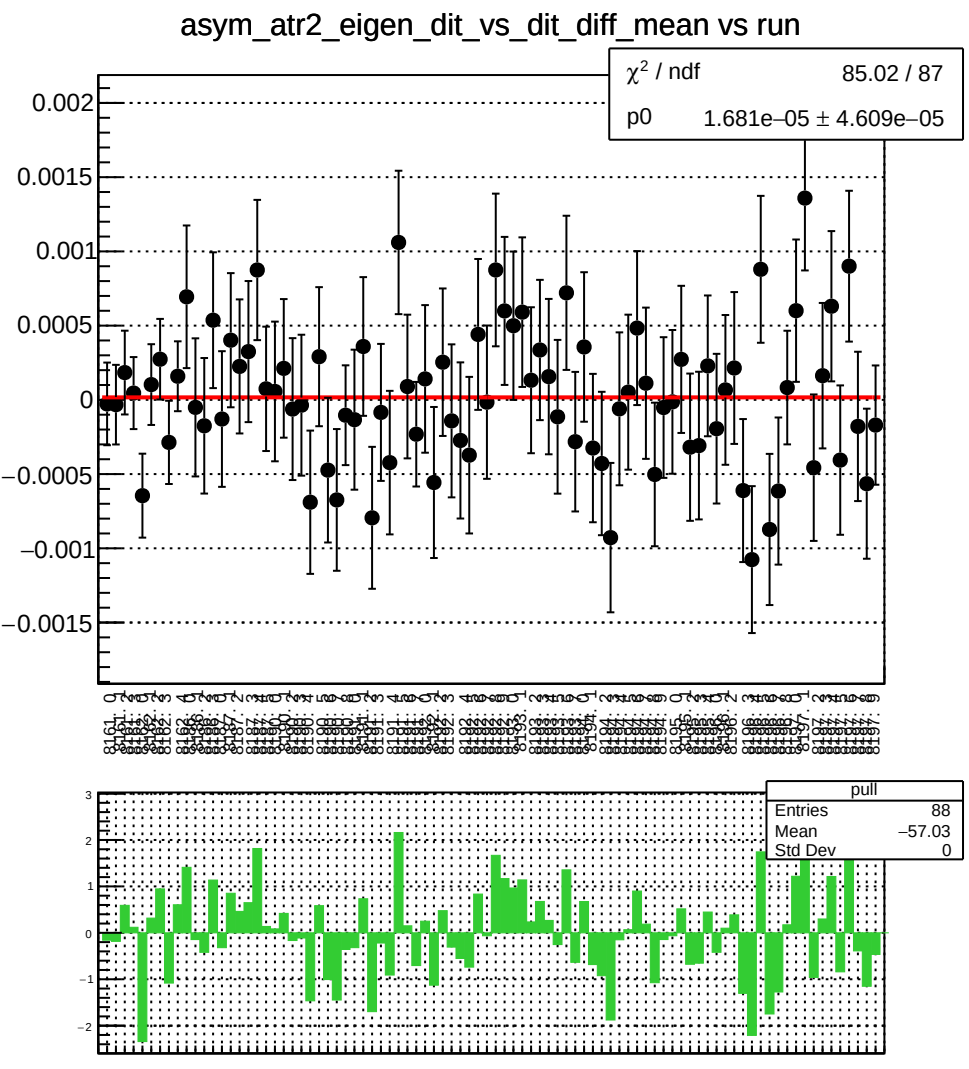

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 76.87 / 87
p0 −0.6535 ± 0.4264
pull
Entries 88
Mean −71.76
Std Dev 0
pull1D
Entries 88
Mean −0.03165
Std Dev 0.9341

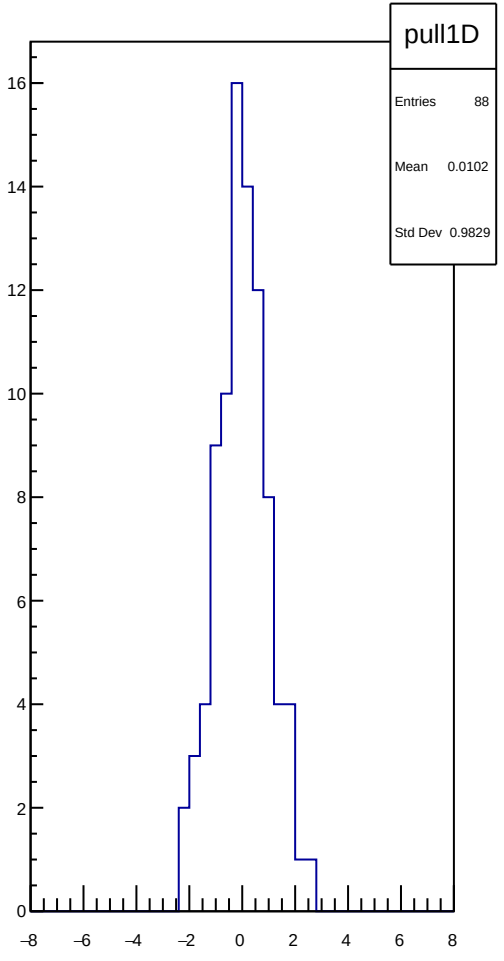

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.885e+04 / 87
p0 381.1 ± 0.3015
900
800
700
600
500
400
300

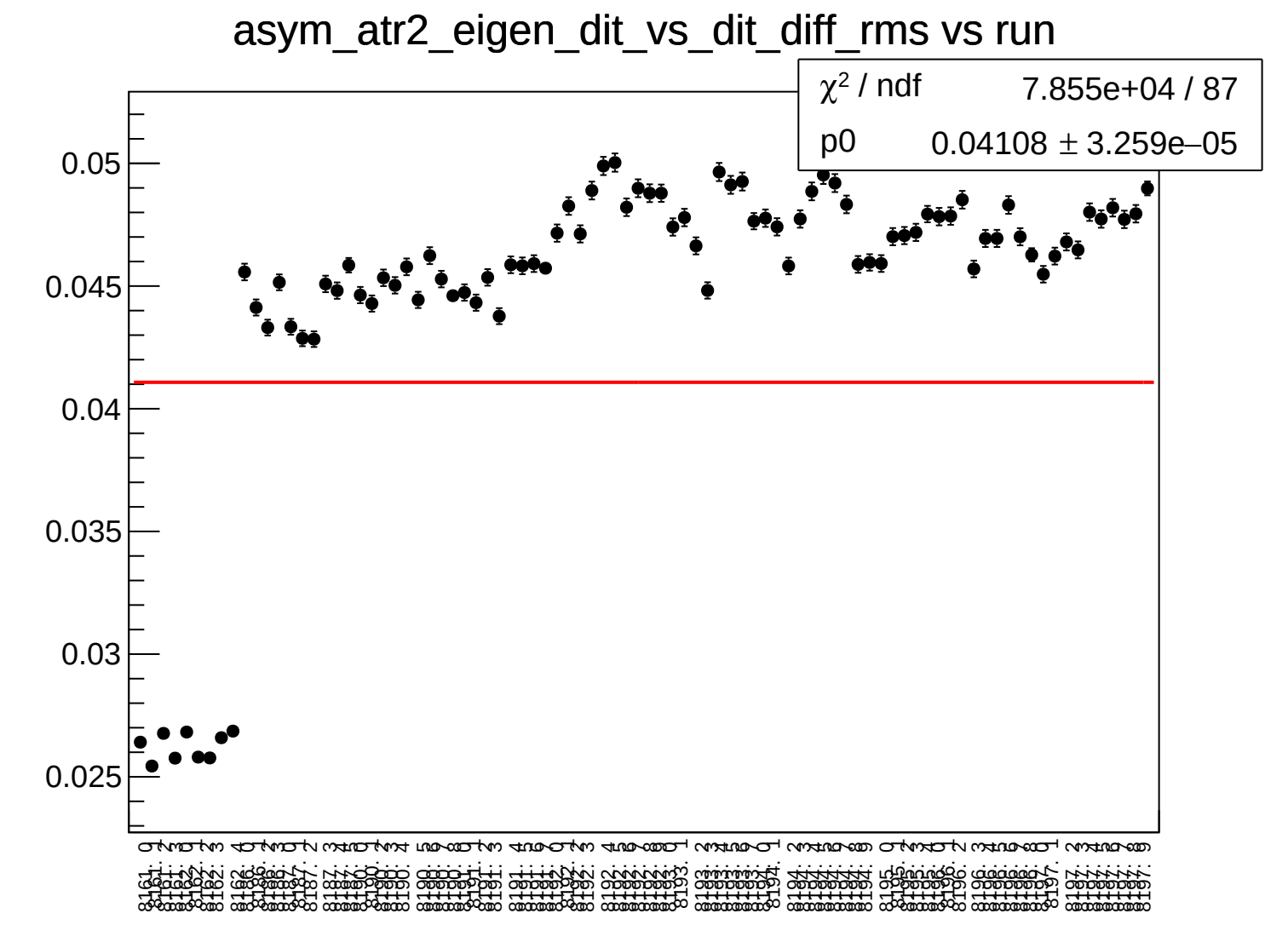

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.87 / 87
p0 −0.6535 ± 0.4264
pull
Entries 88
Mean −71.76
Std Dev 0

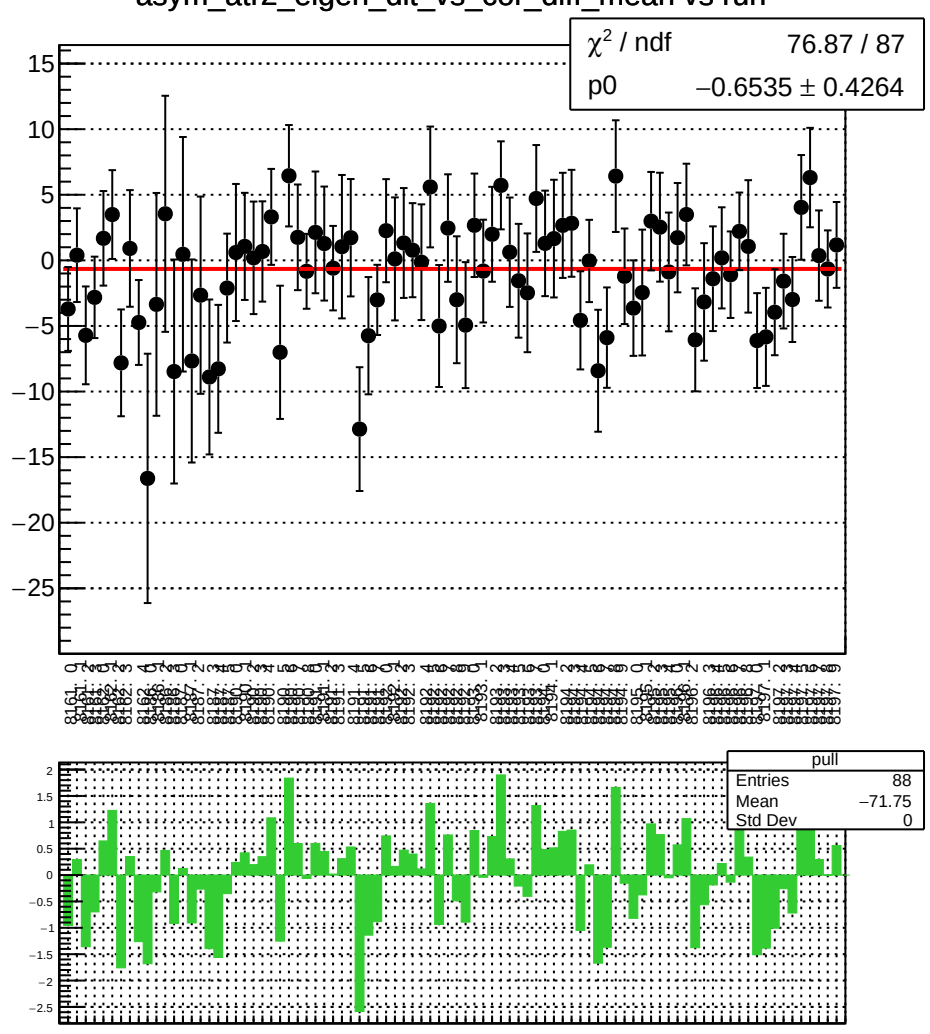

pull1D
Entries 88
Mean −0.03165
Std Dev 0.9341

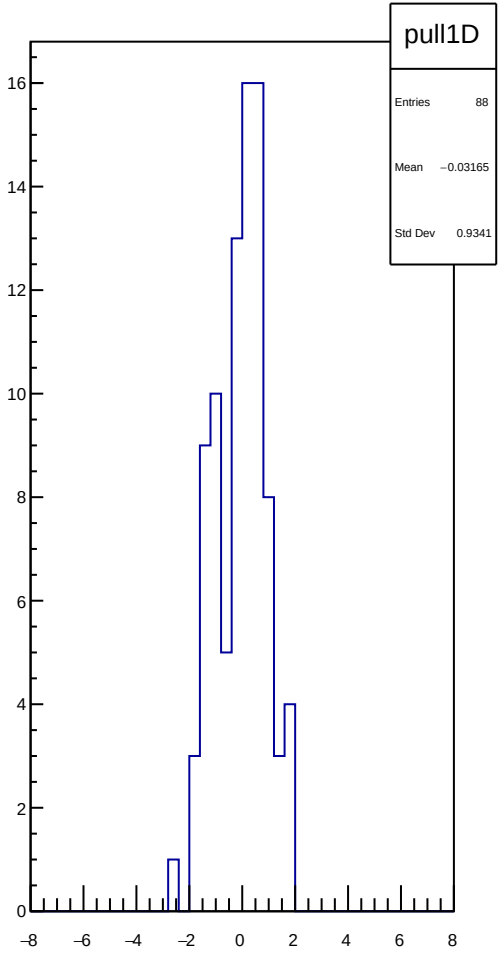

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.885e+04 / 87
p0 381.1 ± 0.3015
900
800
700
600
500
400
300

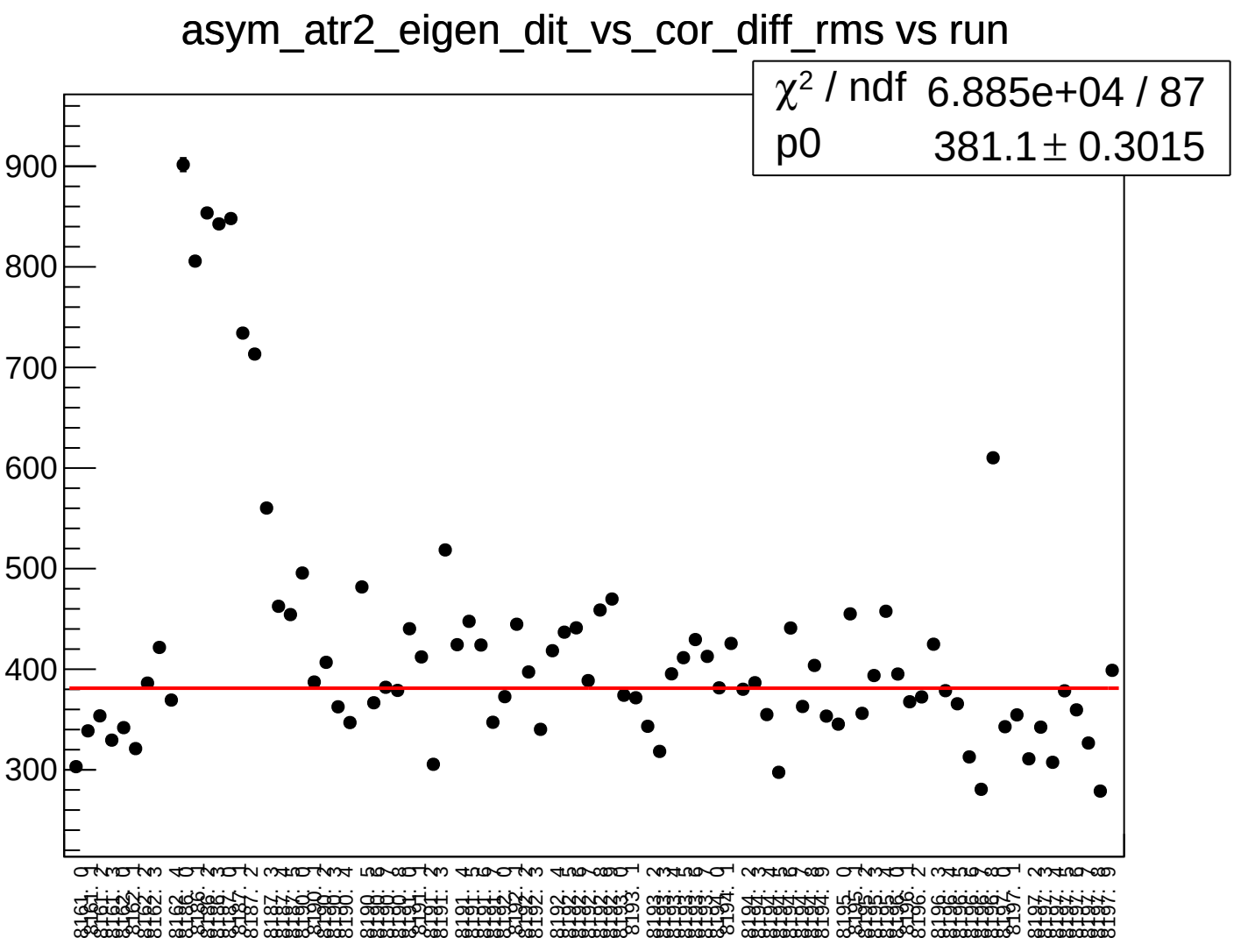

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.02 / 87
p0 1.681e−05 ± 4.609e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean −57.03
Std Dev 0
3
2
1
0
−1
−2

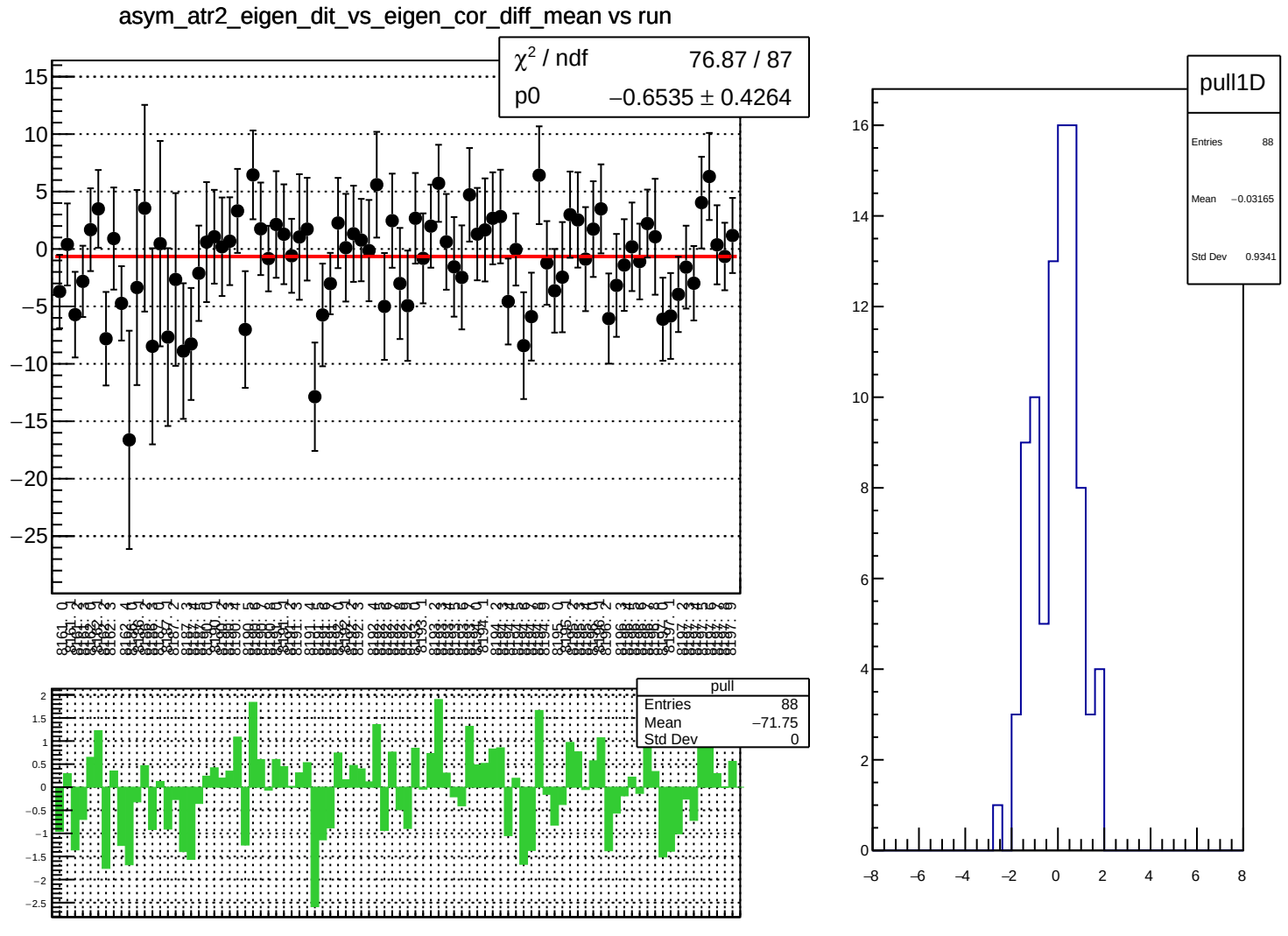

pull1D
Entries 88
Mean 0.0102
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

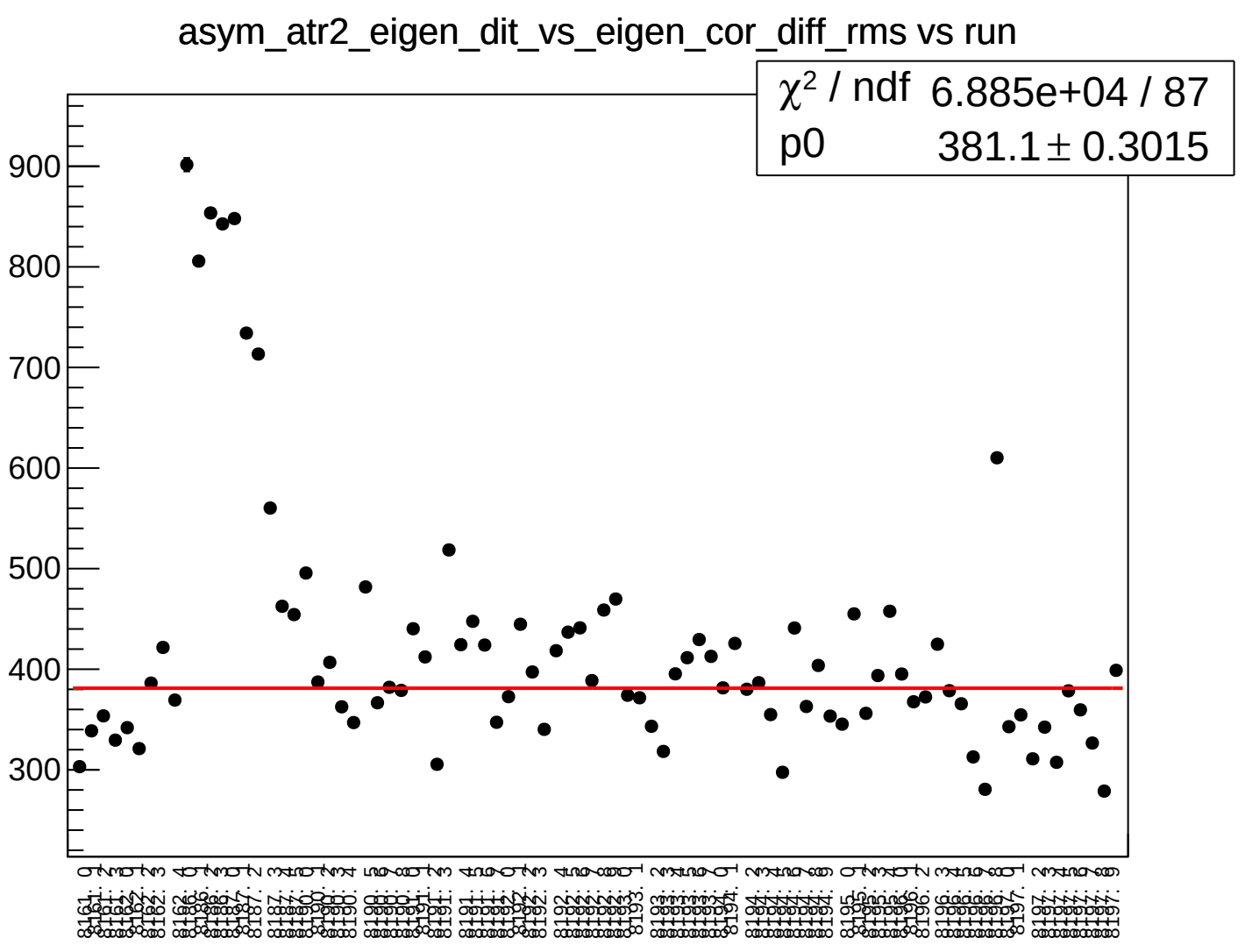

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.855e+04 / 87
p0 0.04108 ± 3.259e–05
0.05
0.045
0.04
0.035
0.03
0.025

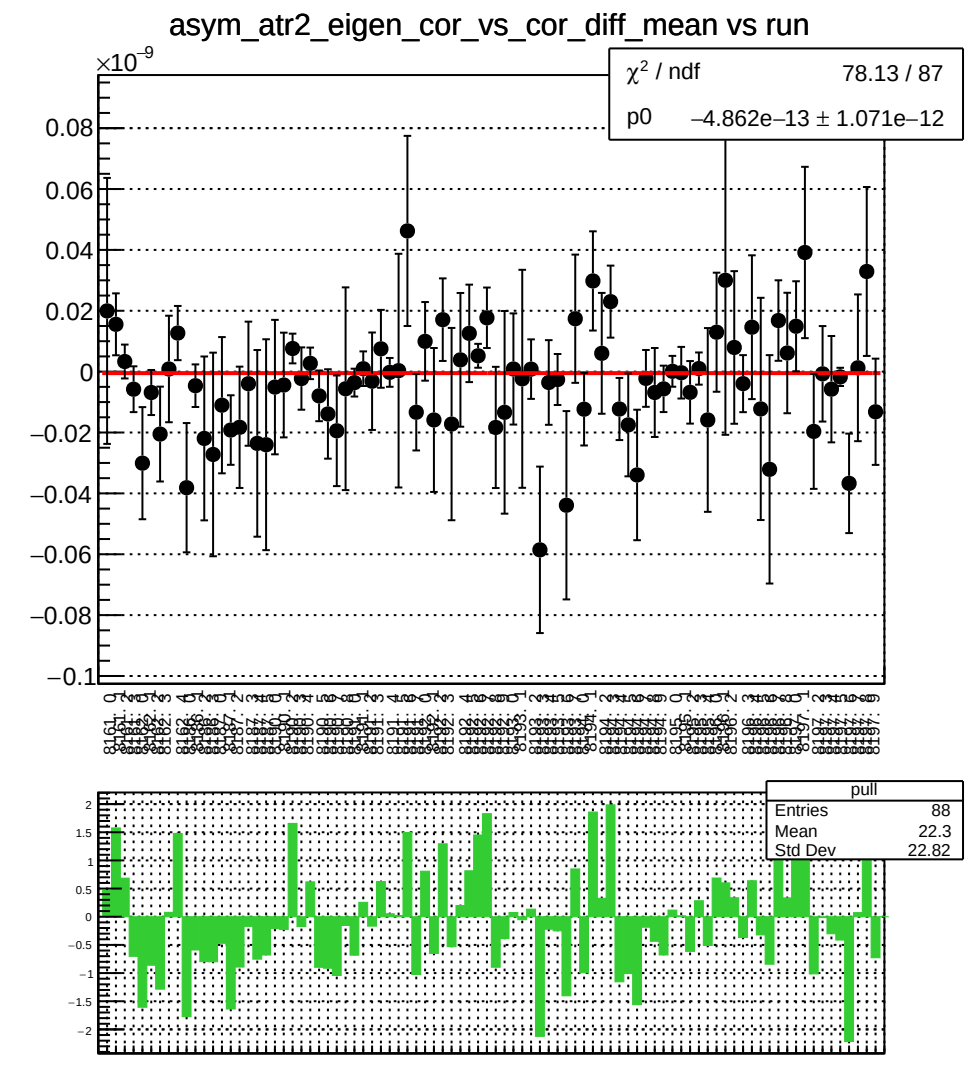

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.87 / 87
p0 −0.6535 ± 0.4264
pull
Entries 88
Mean −71.75
Std Dev 0

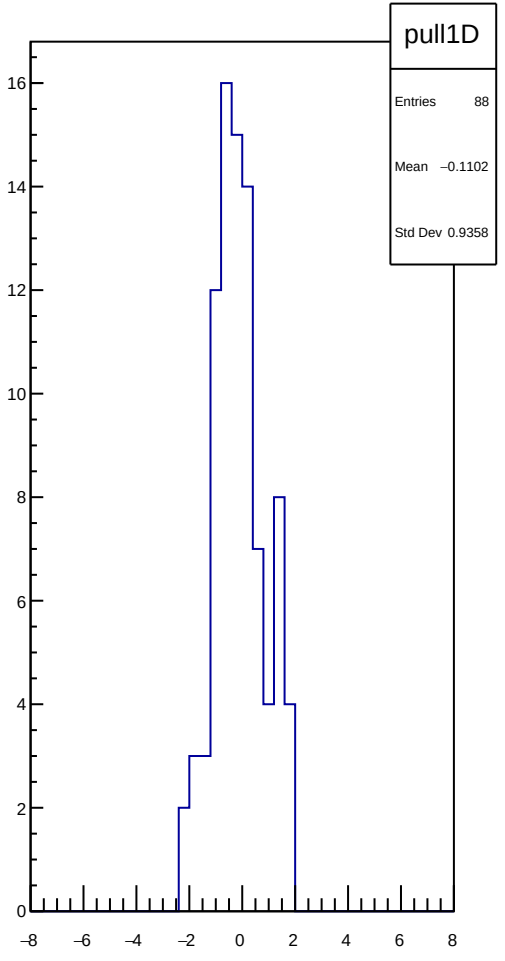

pull1D
Entries 88
Mean −0.03165
Std Dev 0.9341

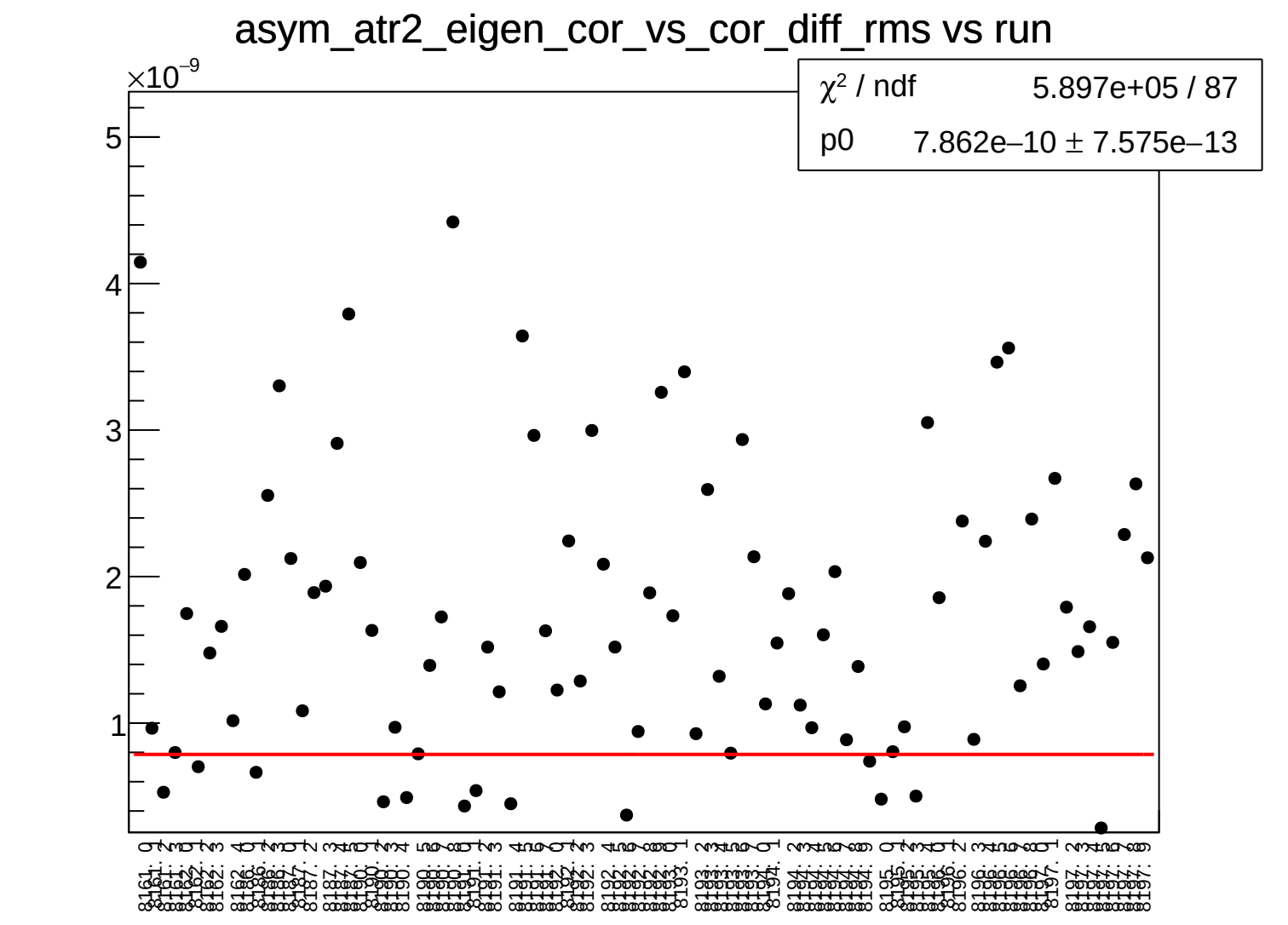

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.885e+04 / 87
p0 381.1 ± 0.3015
900
800
700
600
500
400
300

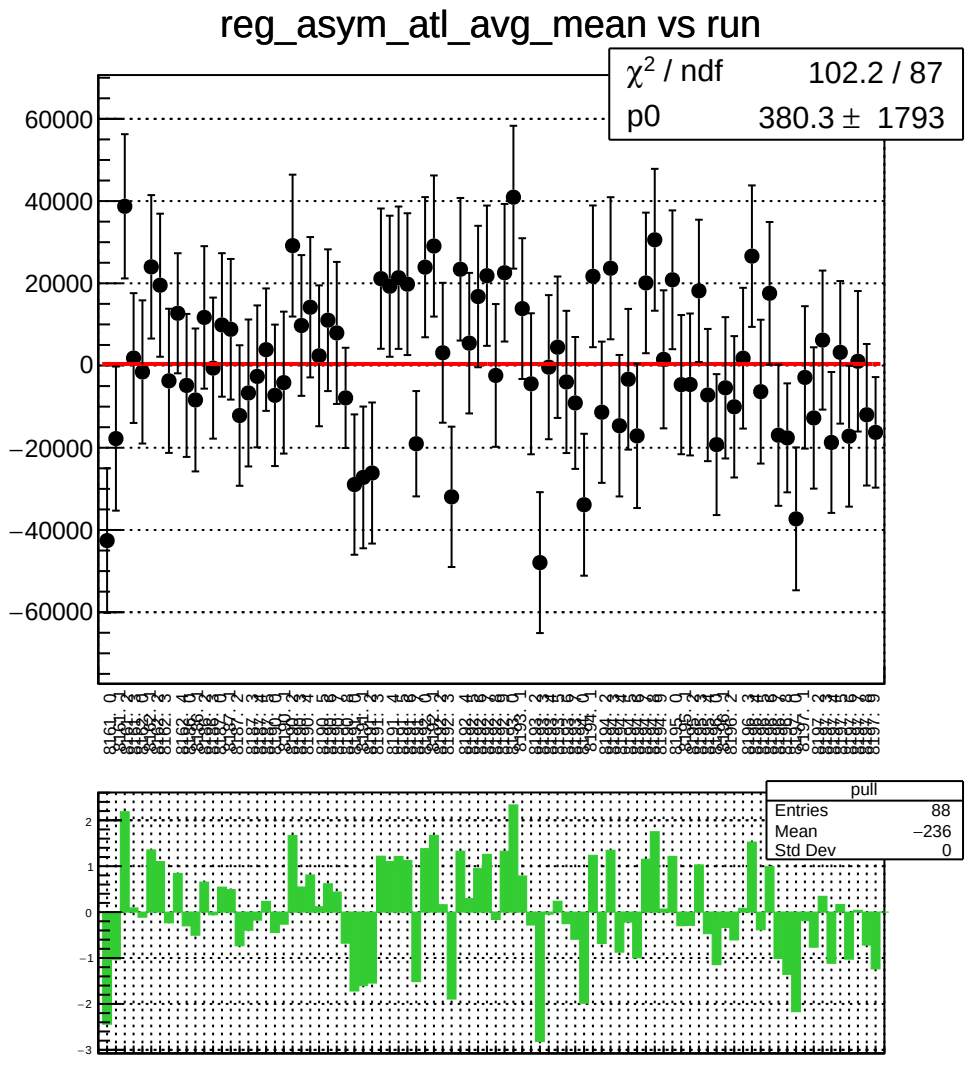

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.87 / 87
p0 −0.6535 ± 0.4264
pull
Entries 88
Mean −71.75
Std Dev 0
pull1D
Entries 88
Mean −0.03165
Std Dev 0.9341

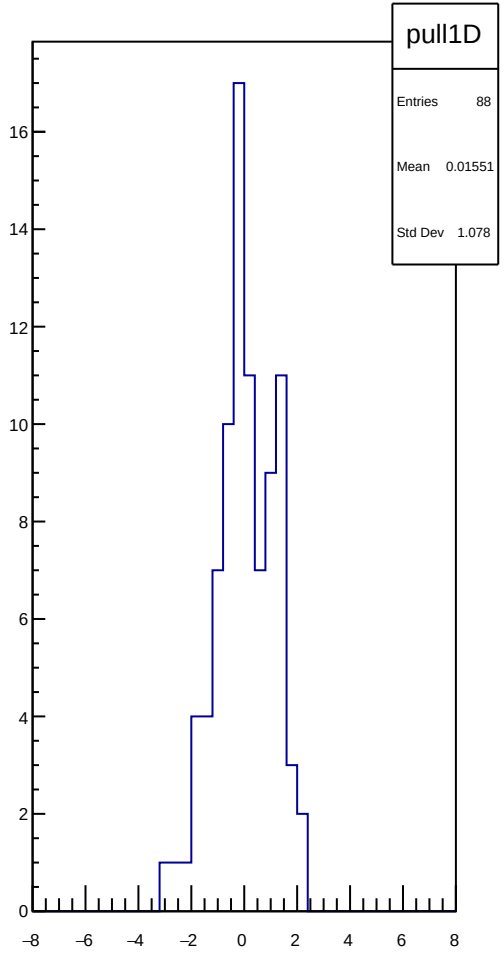

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.885e+04 / 87
p0 381.1 ± 0.3015
900
800
700
600
500
400
300

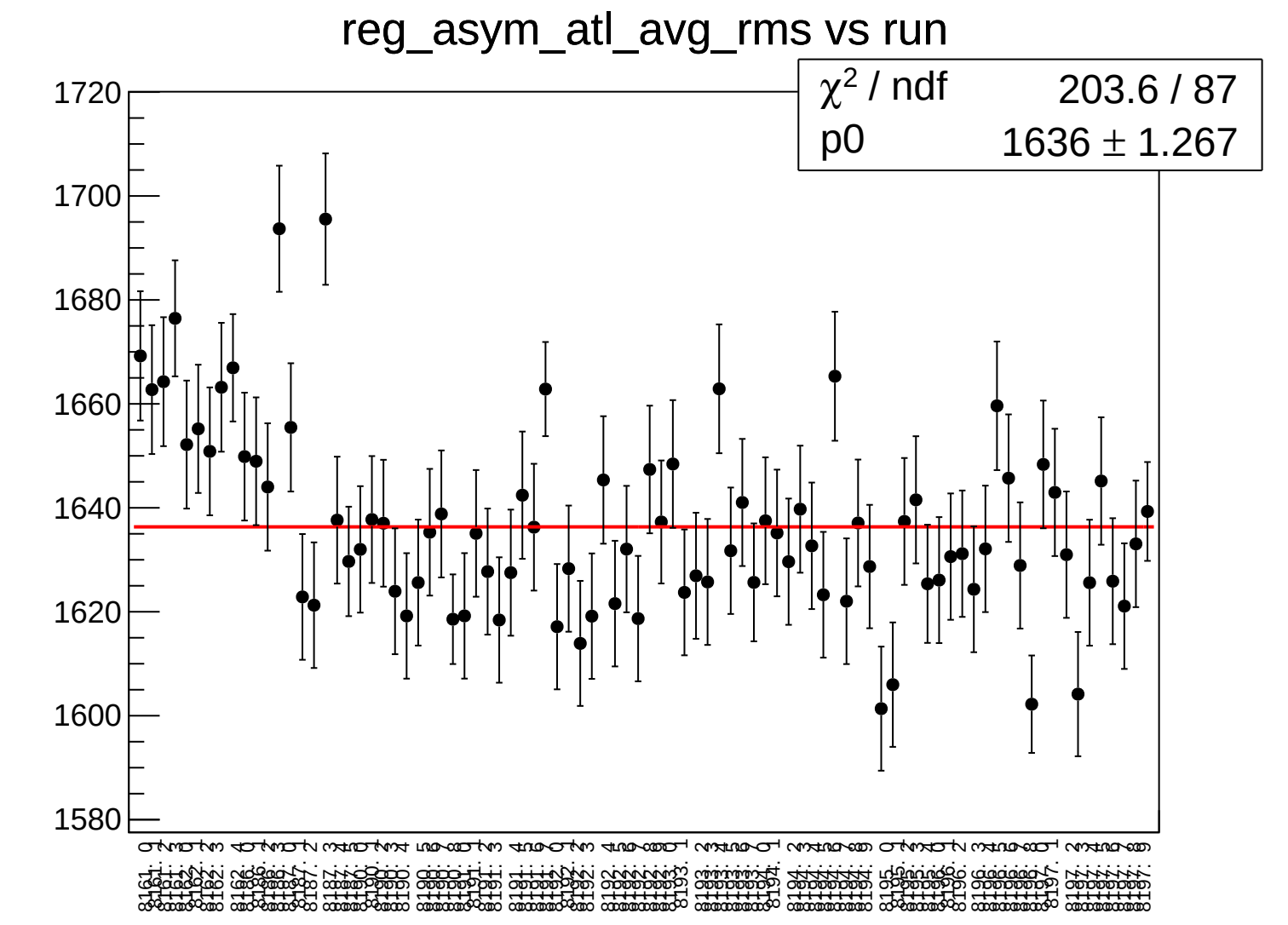

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 78.13 / 87
p0 −4.862e−13 ± 1.071e−12
pull
Entries 88
Mean 22.3
Std Dev 22.82

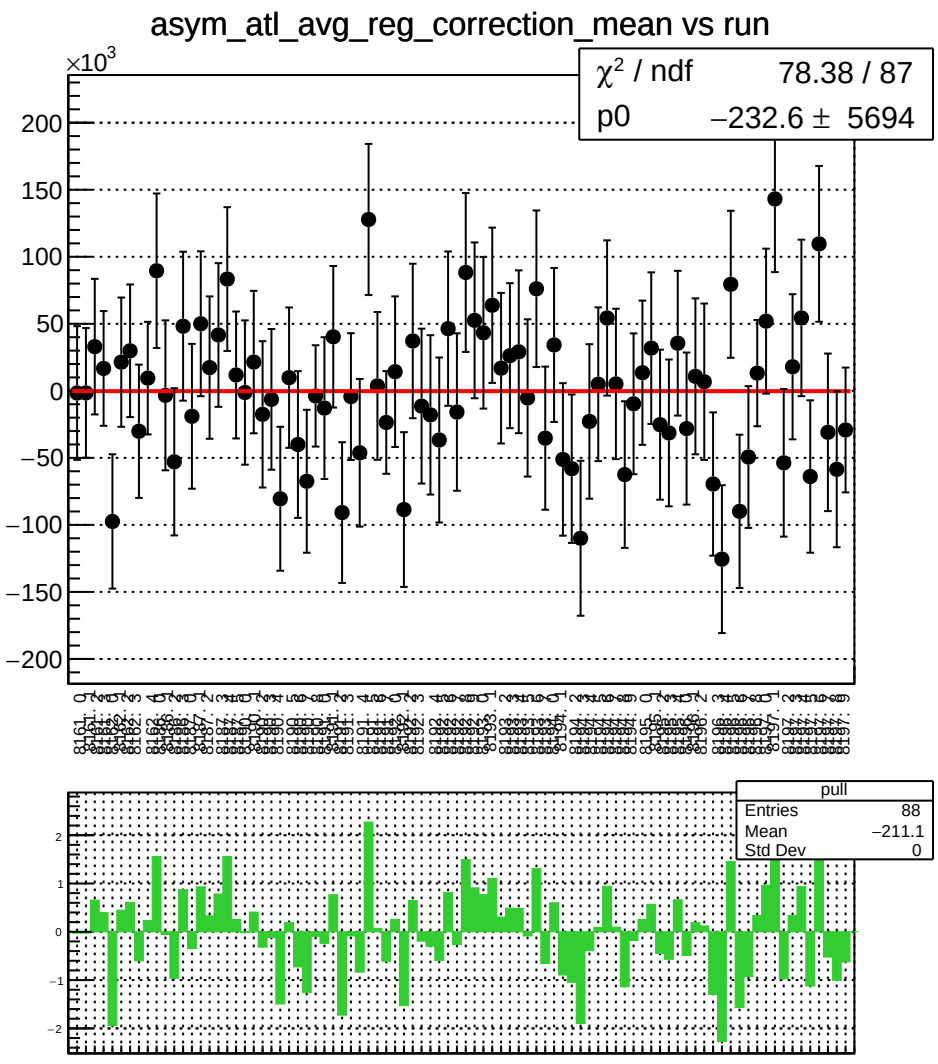

pull1D
Entries 88
Mean −0.1102
Std Dev 0.9358

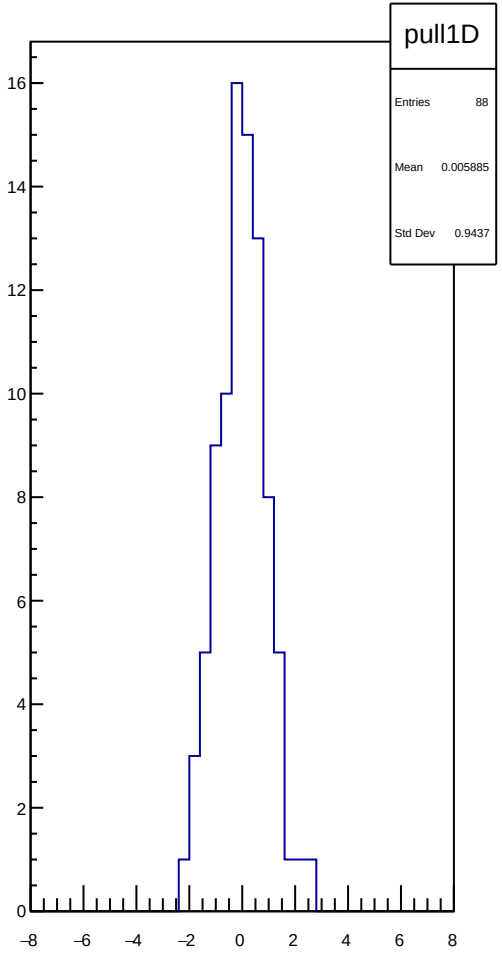

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.897e+05 / 87
p0 7.862e−10 ± 7.575e−13
5
4
3
2
1

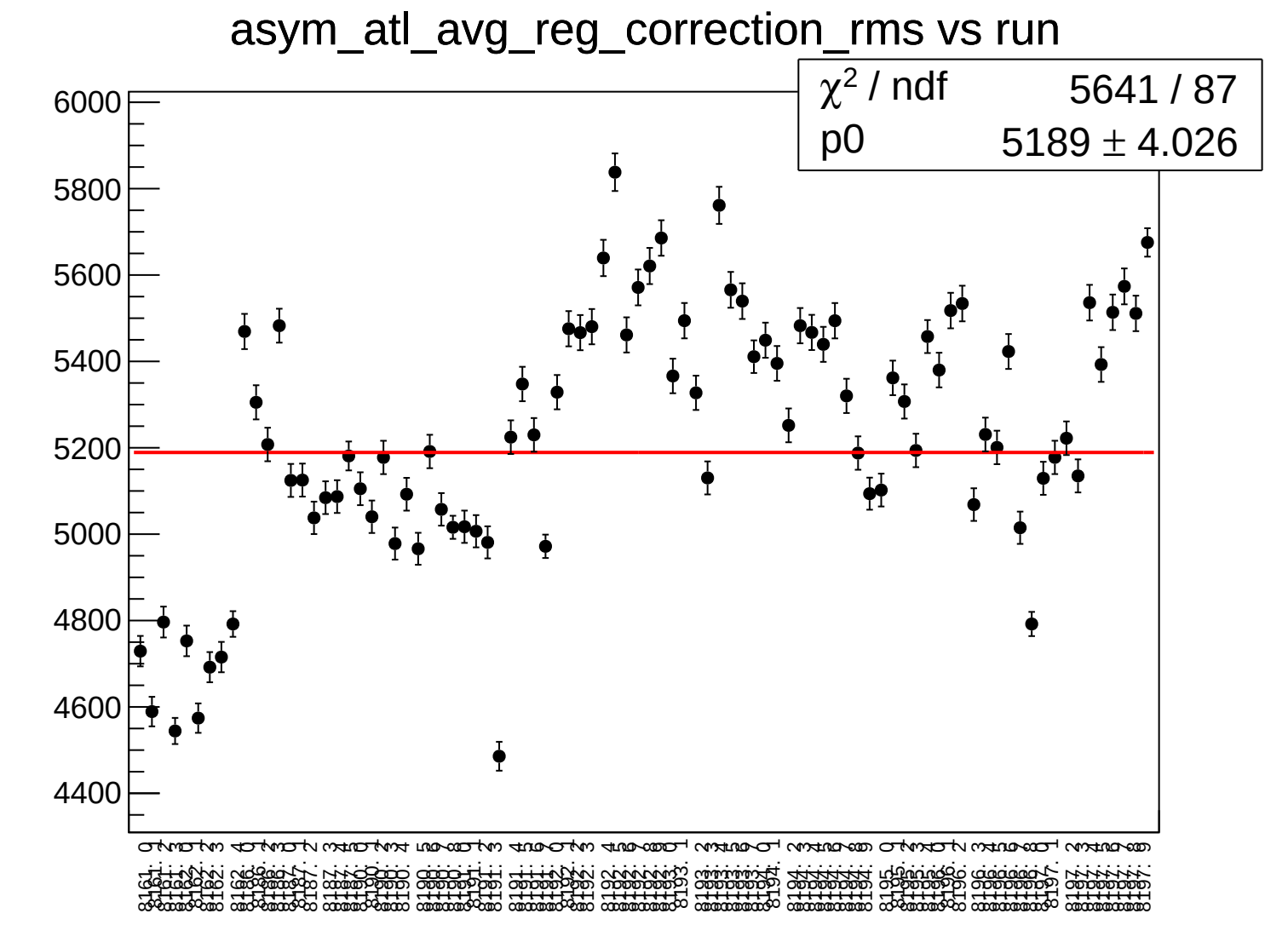

reg_asym_atl_avg_mean vs run
χ² / ndf 102.2 / 87
p0 380.3 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −236
Std Dev 0
2
1
0
−1
−2
−3

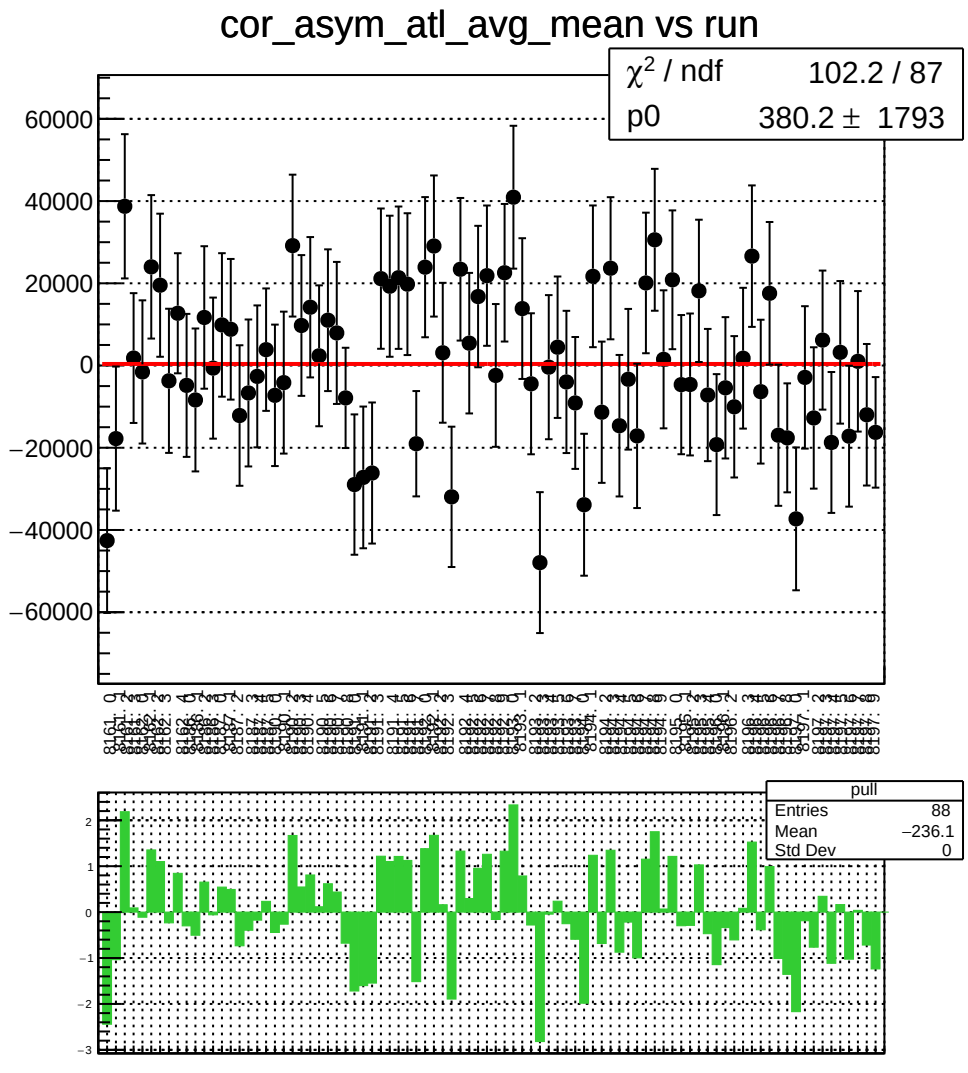

pull1D
Entries 88
Mean 0.01551
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

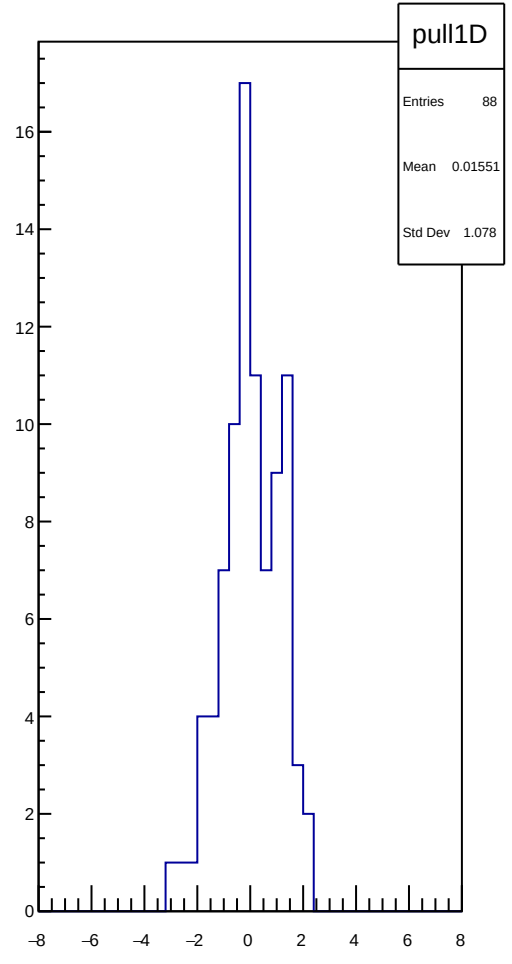

reg_asym_atl_avg_rms vs run
χ² / ndf 203.6 / 87
p0 1636 ± 1.267
1720
1700
1680
1660
1640
1620
1600
1580

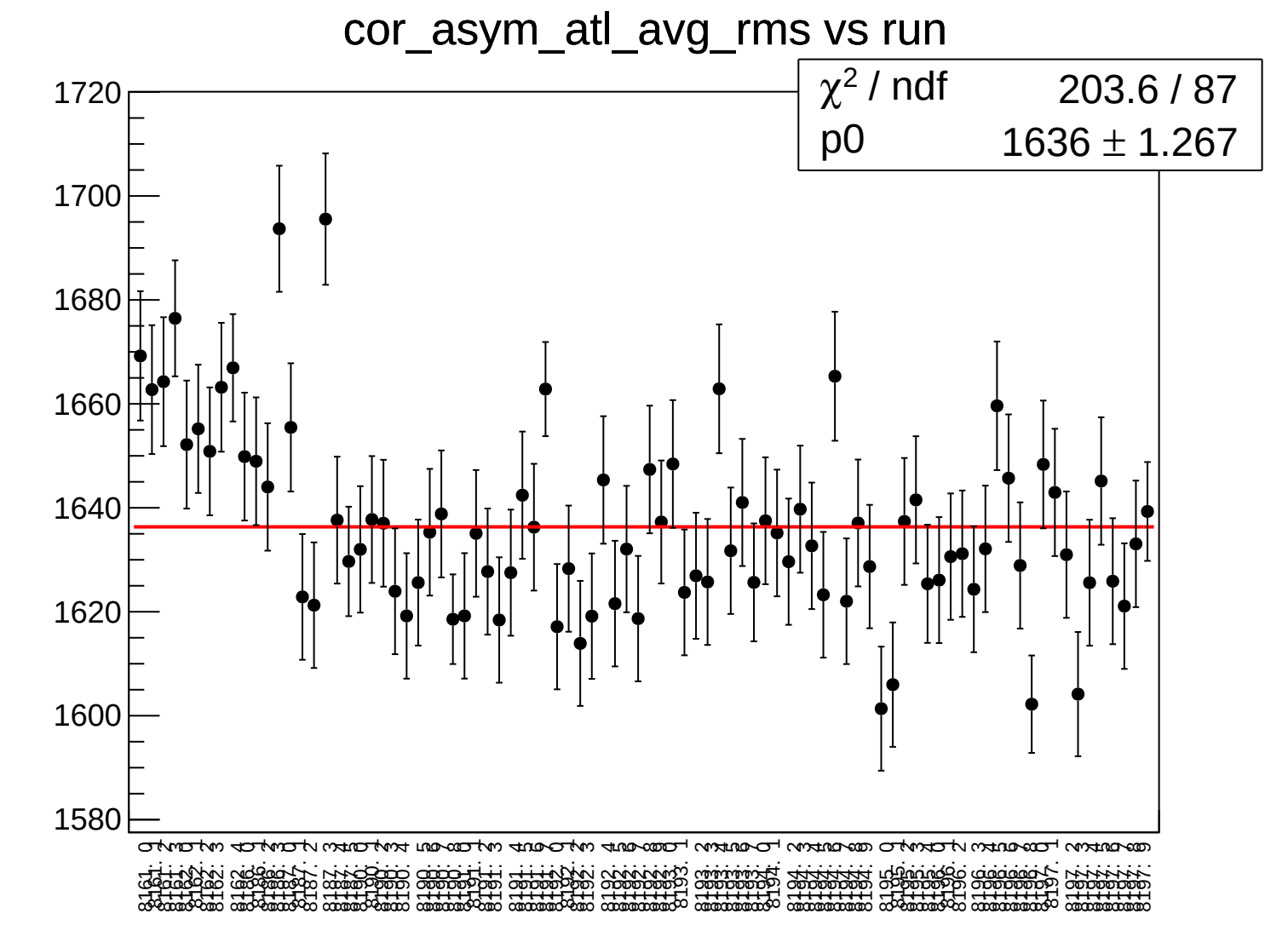

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 78.38 / 87
p0 −232.6 ± 5694
×10³
pull
Entries 88
Mean −211.1
Std Dev 0

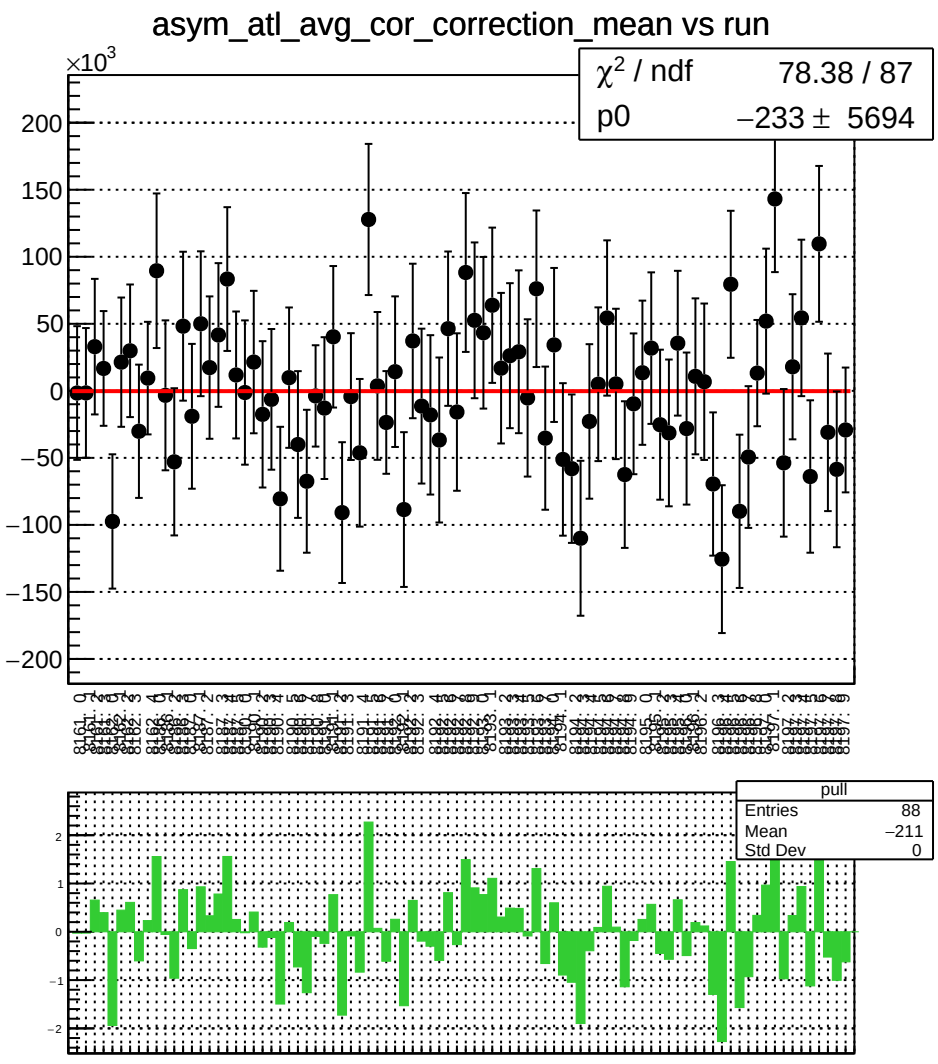

pull1D
Entries 88
Mean 0.005885
Std Dev 0.9437

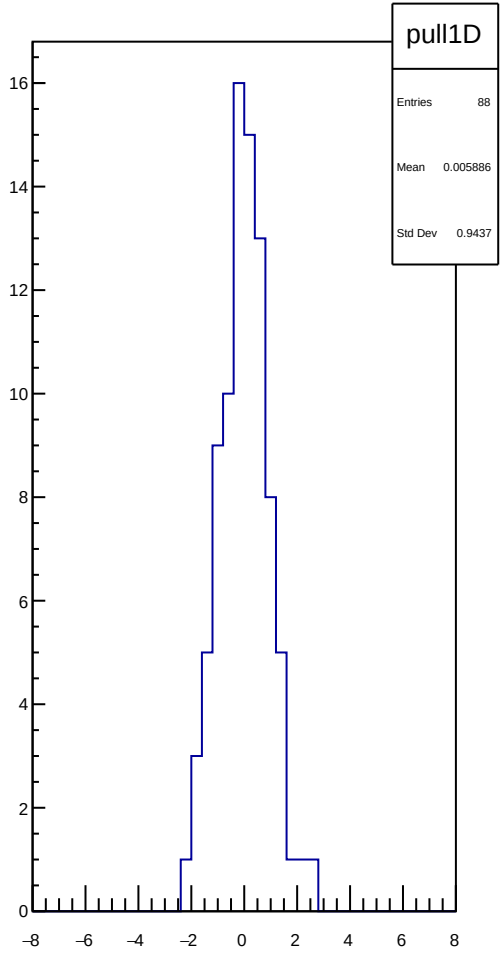

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 5641 / 87
p0 5189 ± 4.026
6000
5800
5600
5400
5200
5000
4800
4600
4400

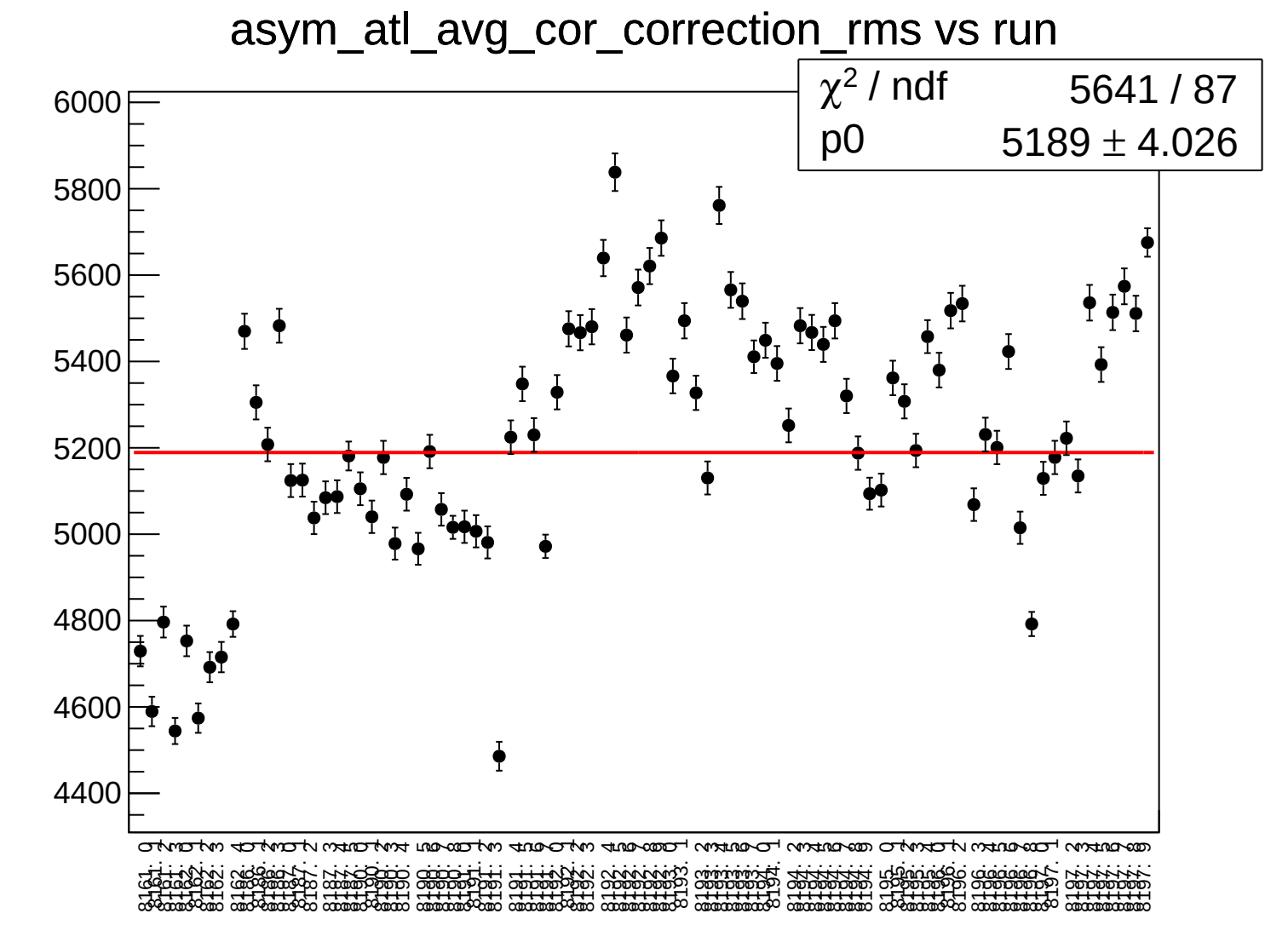

cor_asym_atl_avg_mean vs run
χ² / ndf 102.2 / 87
p0 380.2 ± 1793
pull
Entries 88
Mean −236.1
Std Dev 0

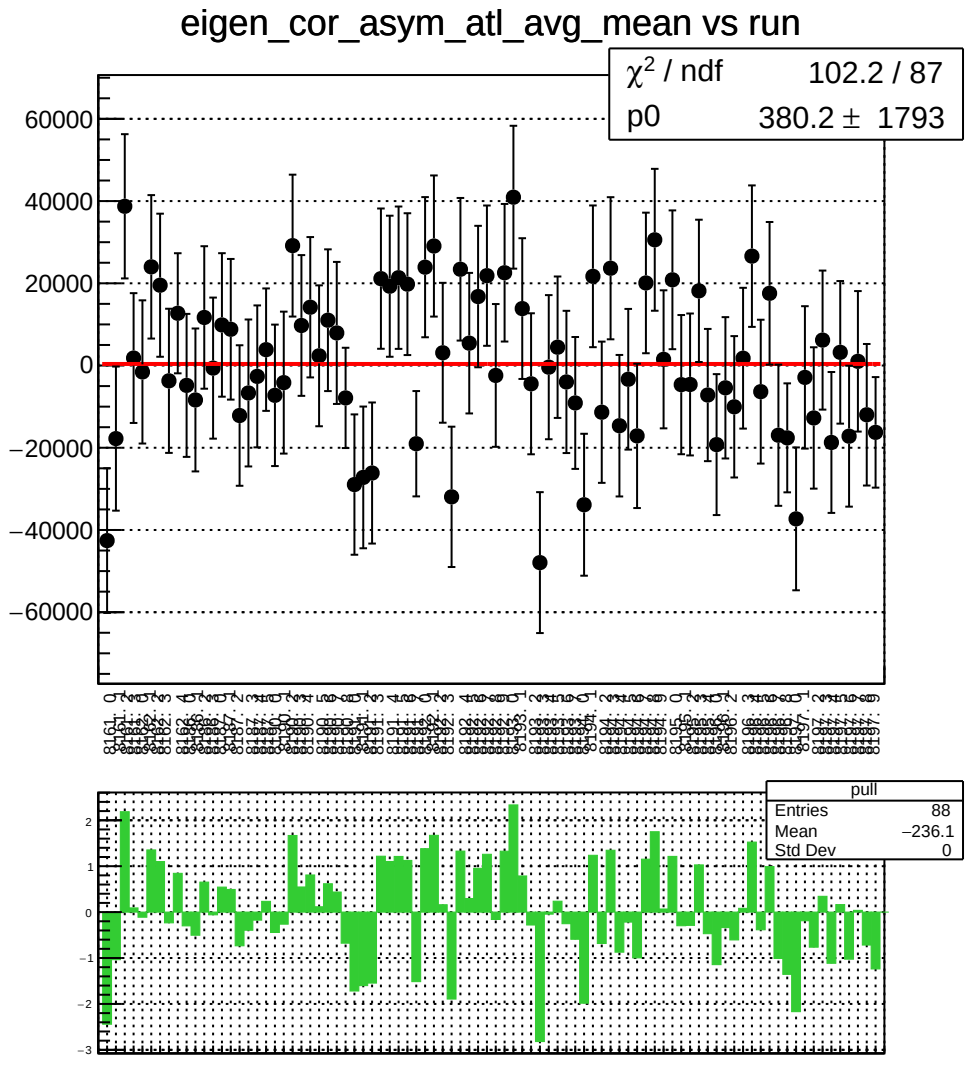

pull1D
Entries 88
Mean 0.01551
Std Dev 1.078

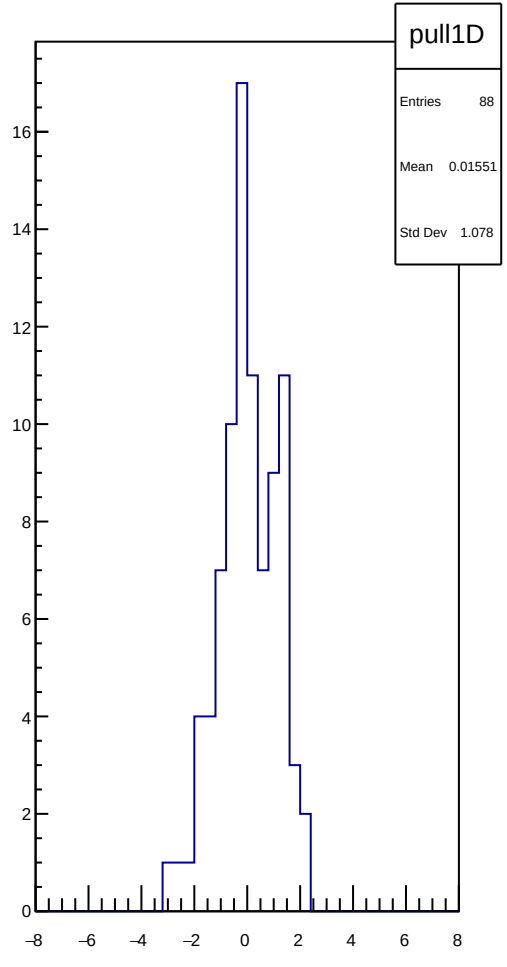

cor_asym_atl_avg_rms vs run
χ² / ndf 203.6 / 87
p0 1636 ± 1.267
1720
1700
1680
1660
1640
1620
1600
1580


asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.38 / 87
p0 −233 ± 5694
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −211
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.005886
Std Dev 0.9437
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_cor_correction_rms vs run
χ² / ndf 5641 / 87
p0 5189 ± 4.026
6000
5800
5600
5400
5200
5000
4800
4600
4400


eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 102.2 / 87
p0 380.2 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −236.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.01551
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
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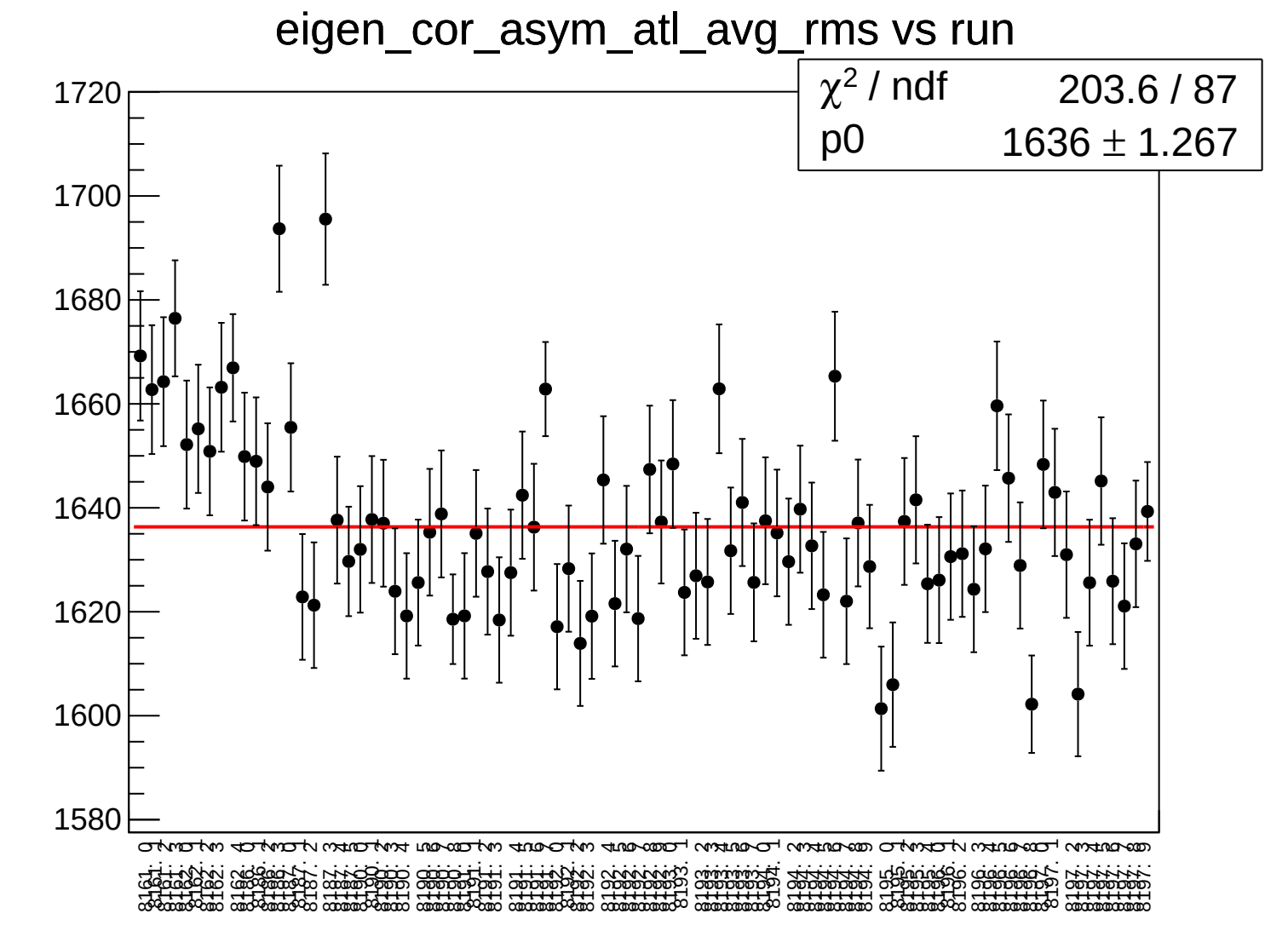
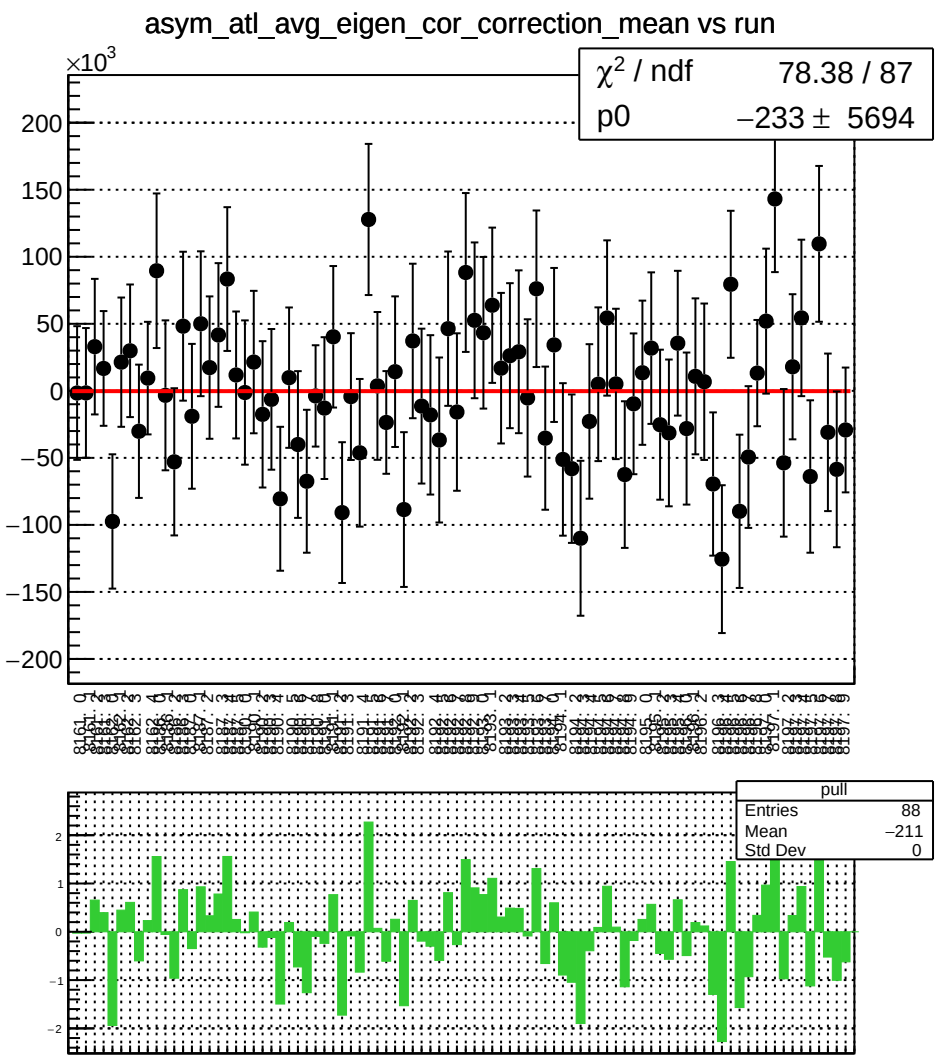
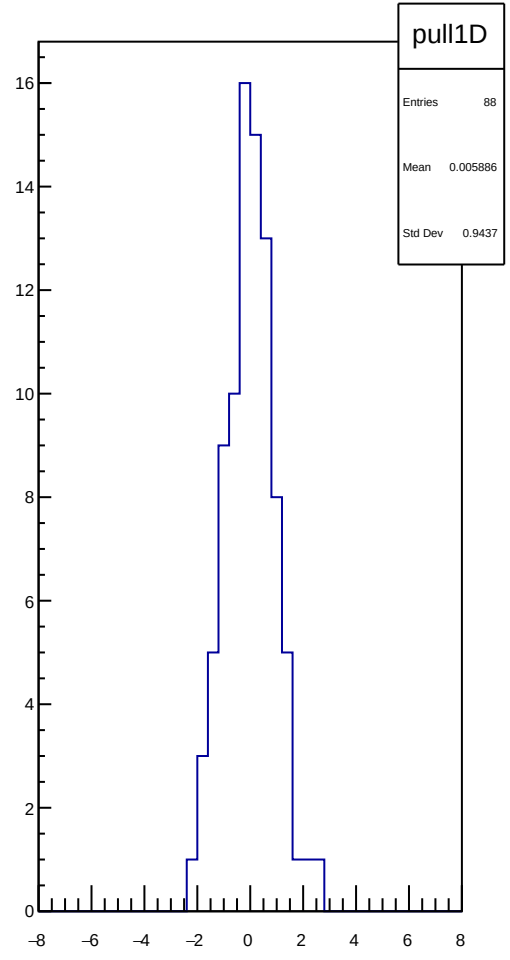
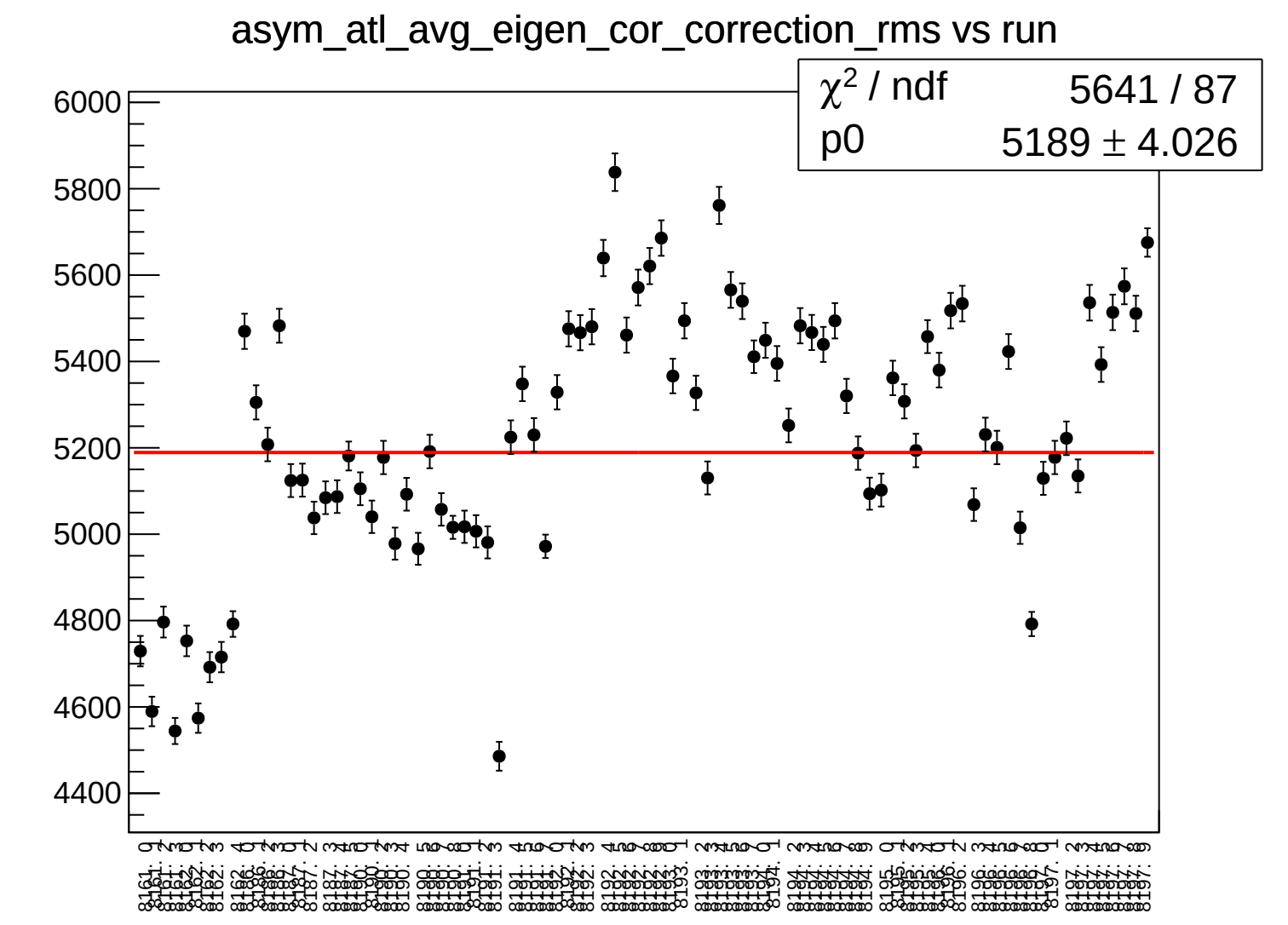
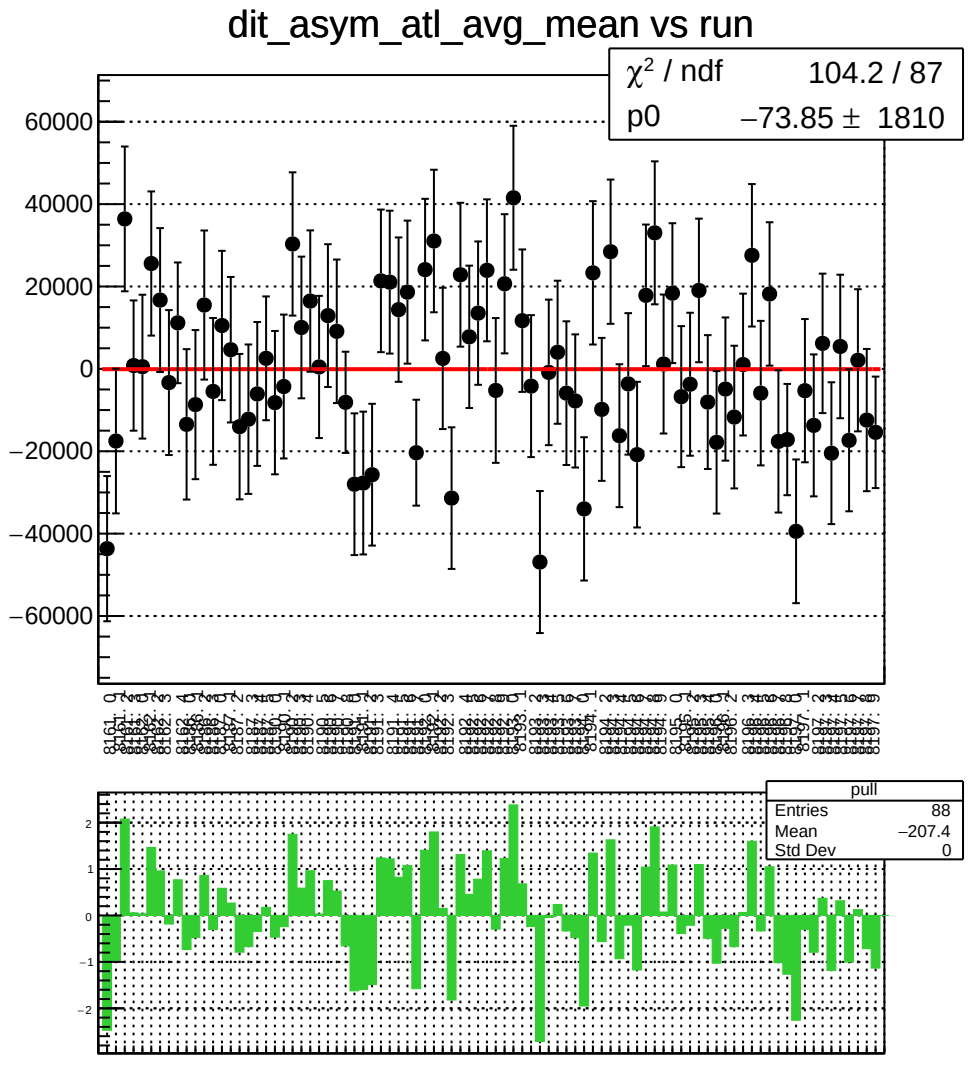
2
4
6
8

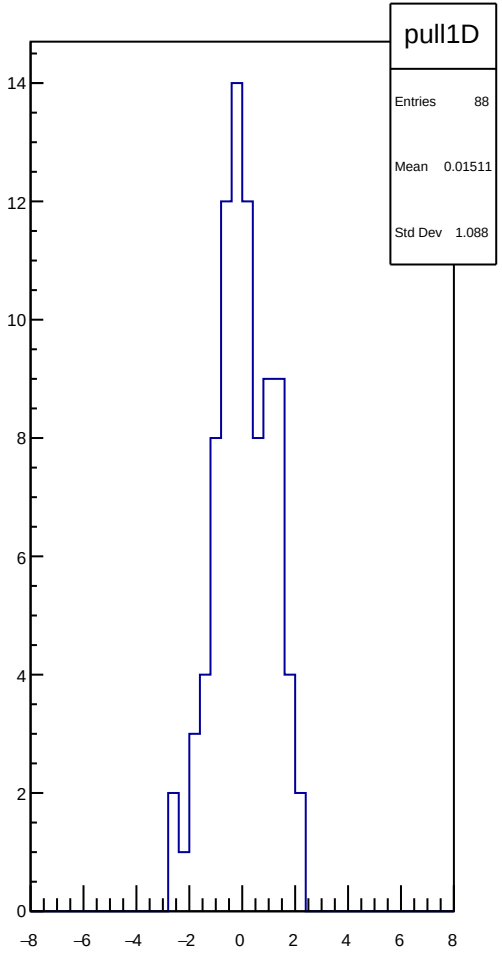

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 203.6 / 87
p0 1636 ± 1.267
1720
1700
1680
1660
1640
1620
1600
1580

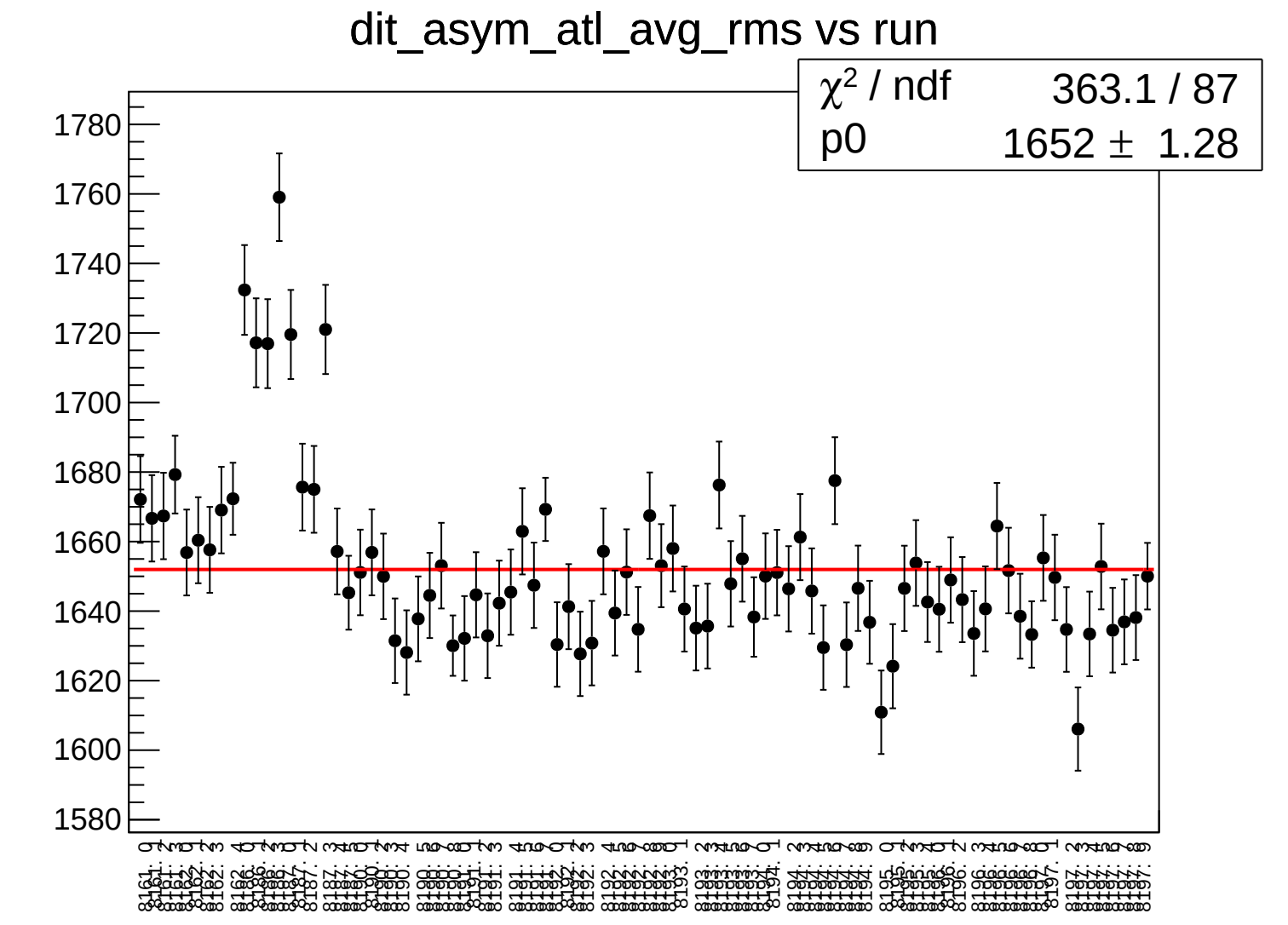

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.38 / 87
p0 −233 ± 5694
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −211
Std Dev 0
2
1
0
−1
−2

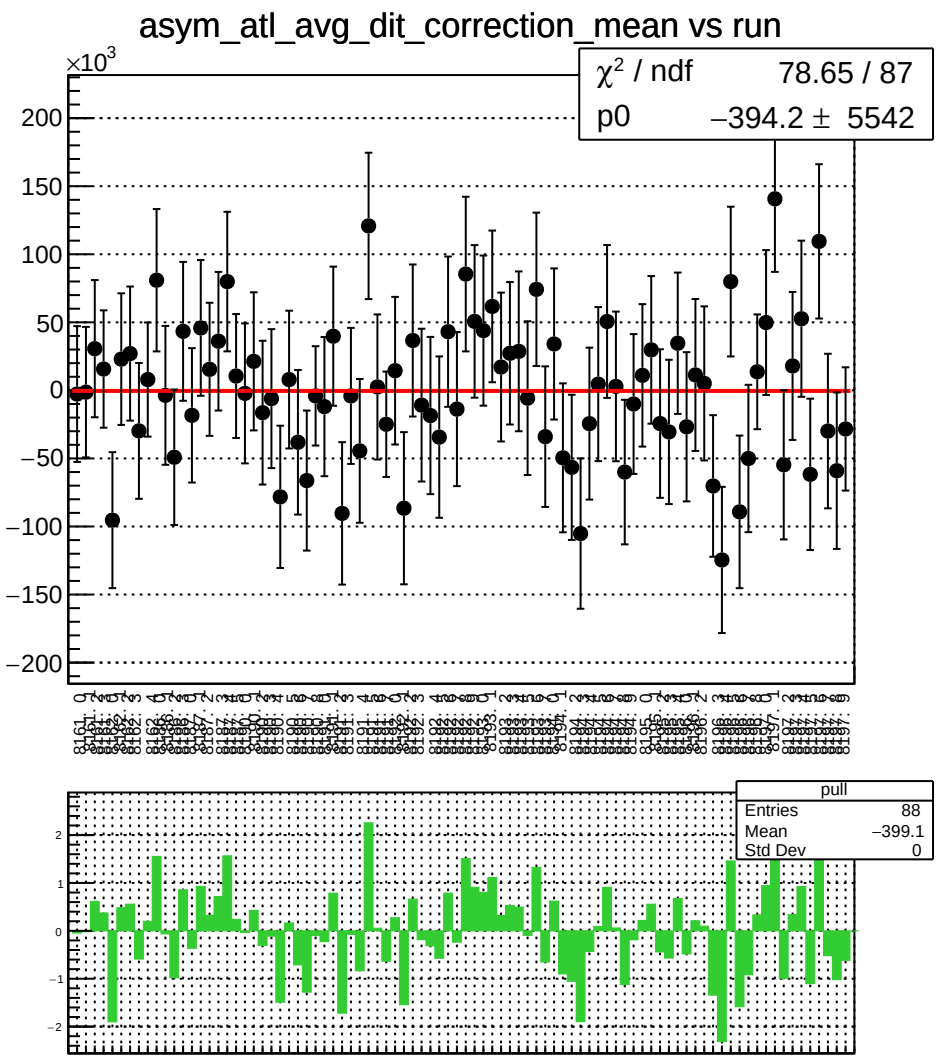

pull1D
Entries 88
Mean 0.005886
Std Dev 0.9437
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

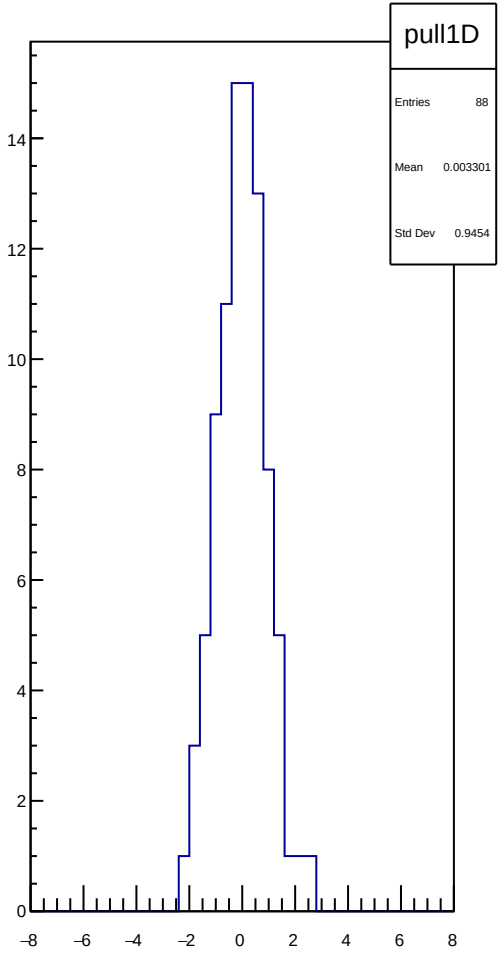

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 5641 / 87
p0 5189 ± 4.026
6000
5800
5600
5400
5200
5000
4800
4600
4400

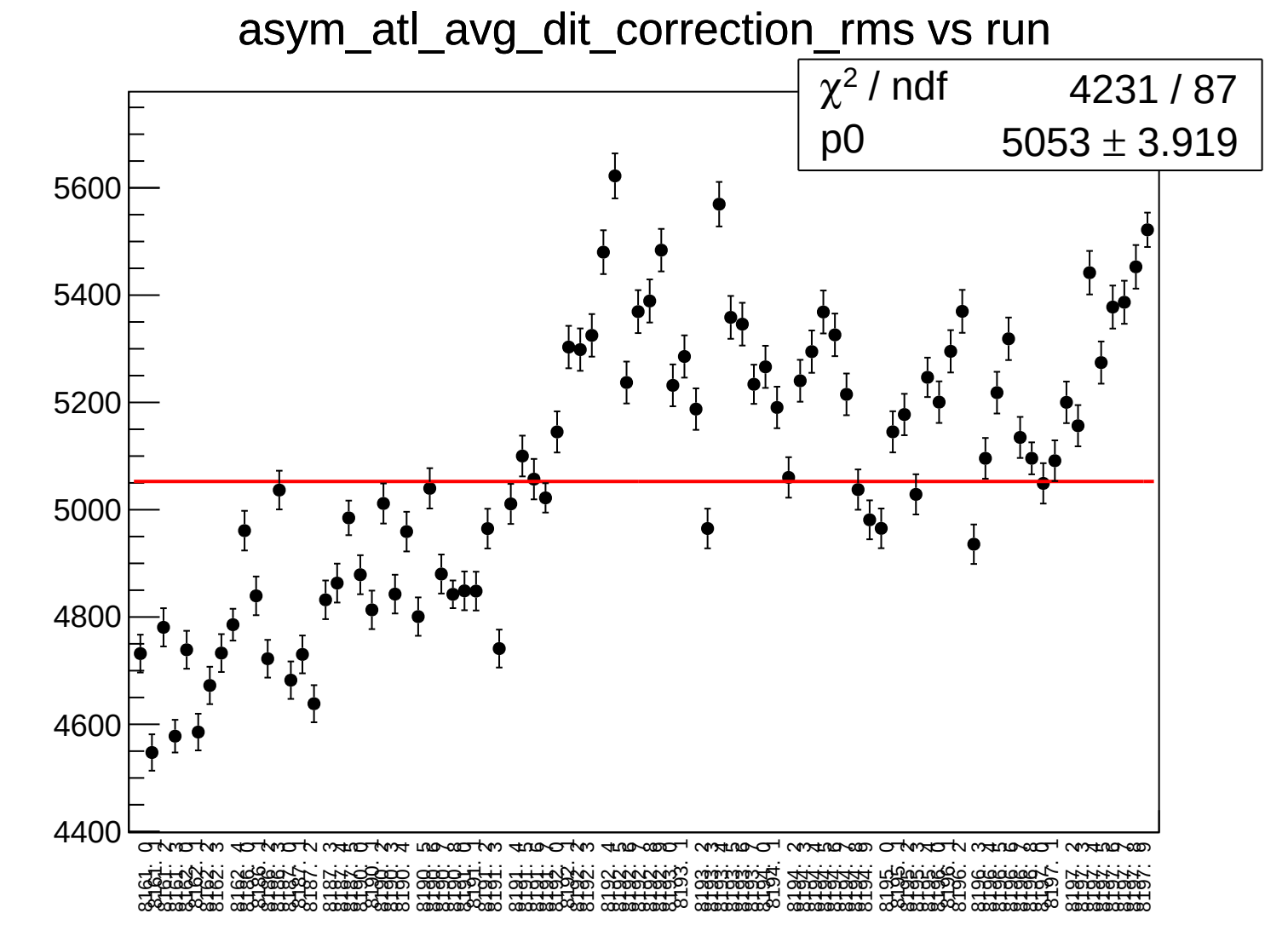

dit_asym_atl_avg_mean vs run
χ² / ndf 104.2 / 87
p0 −73.85 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −207.4
Std Dev 0
2
1
0
−1
−2

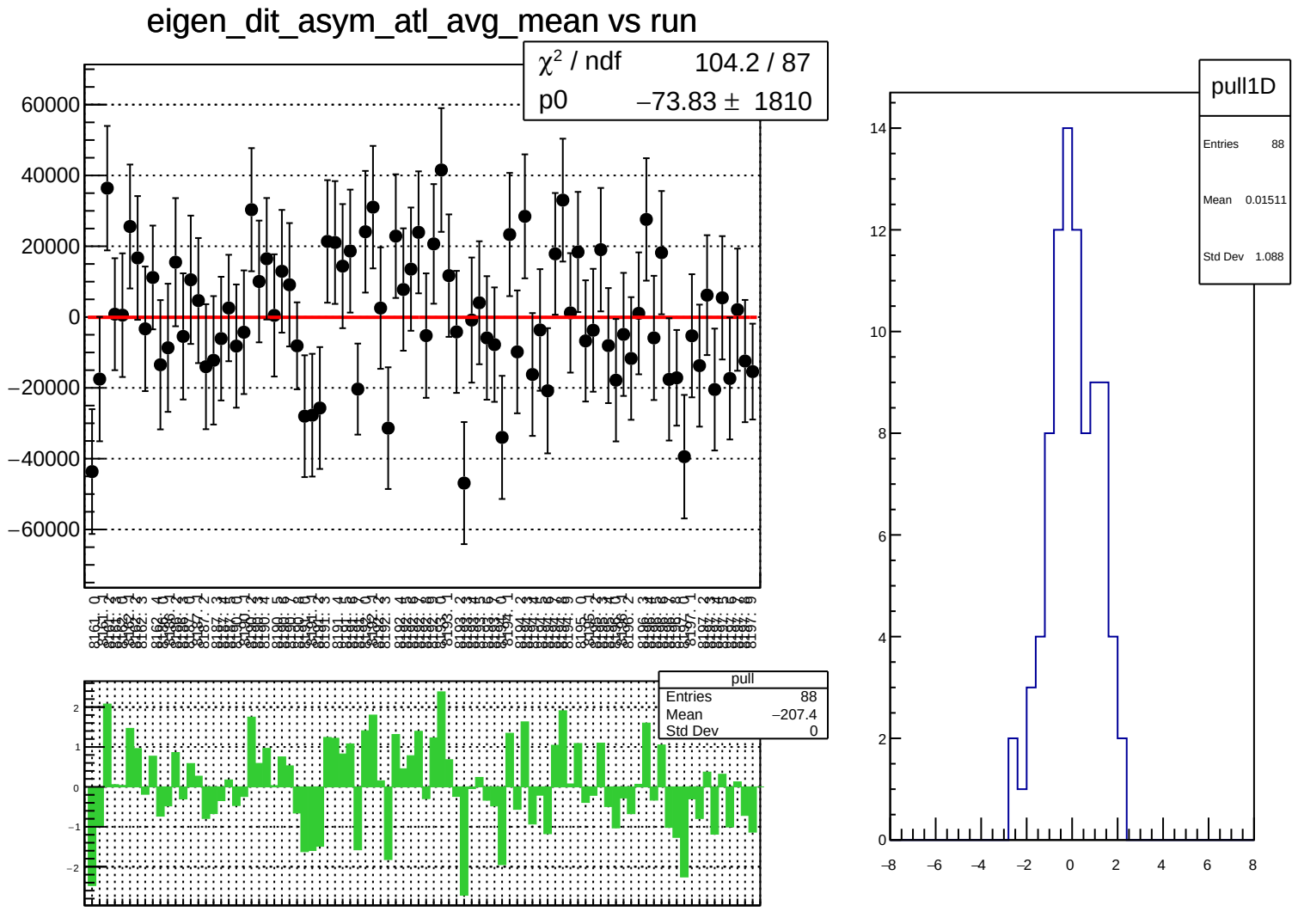

pull1D
Entries 88
Mean 0.01511
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

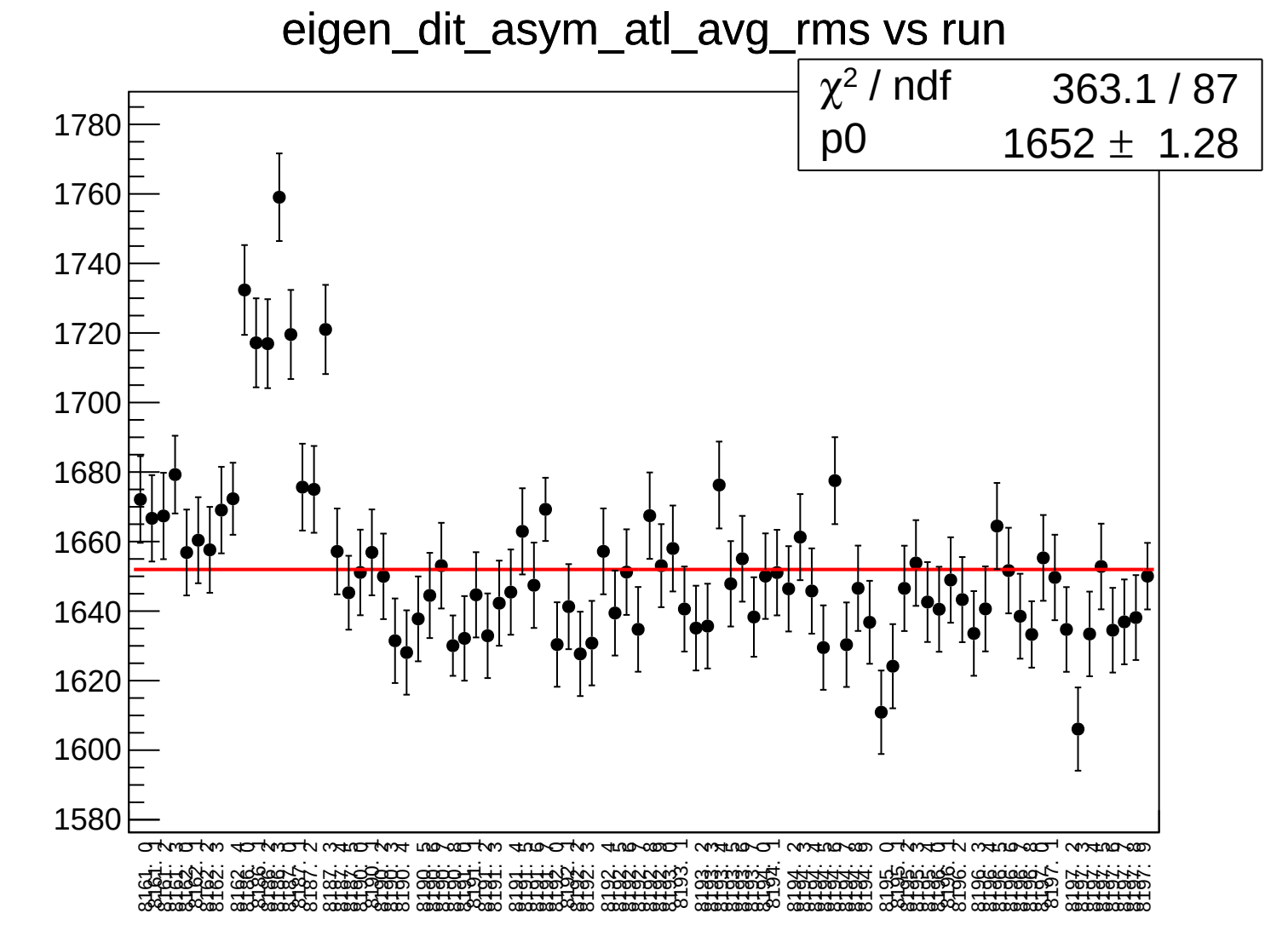

dit_asym_atl_avg_rms vs run
χ² / ndf 363.1 / 87
p0 1652 ± 1.28
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

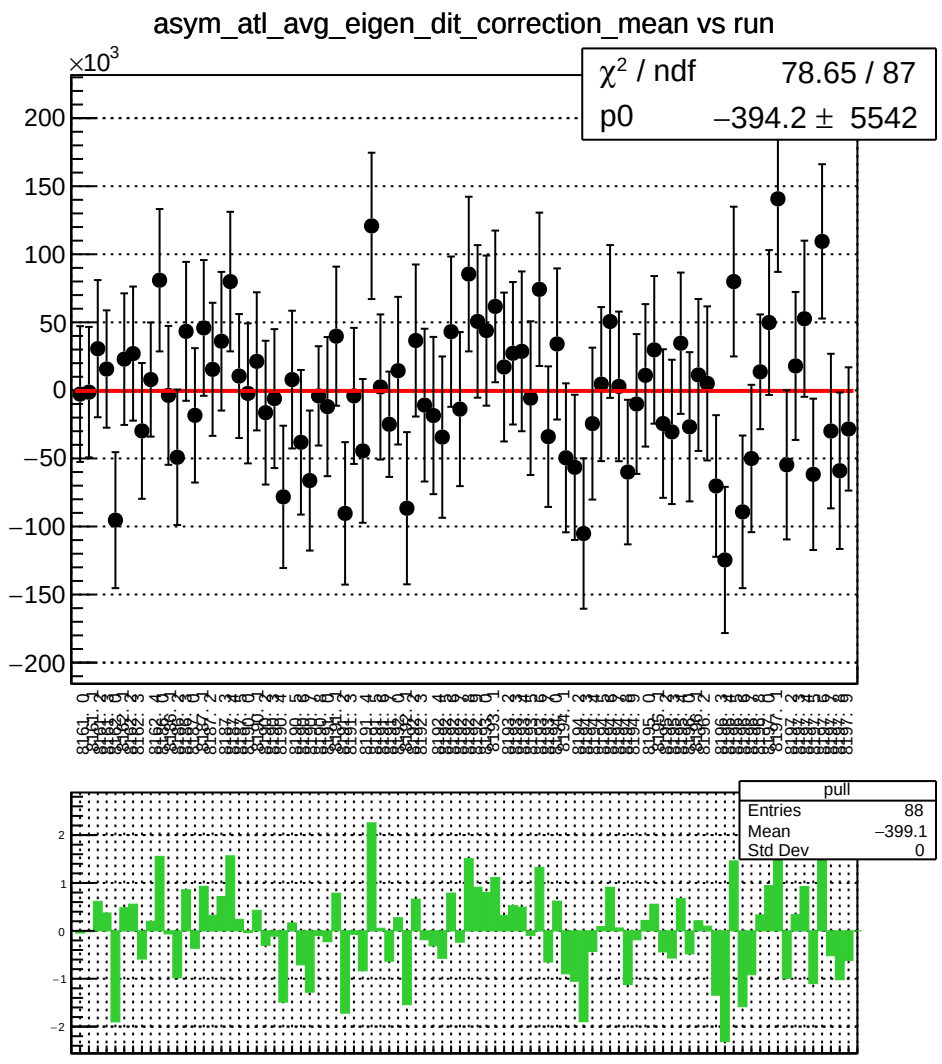

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 78.65 / 87
p0 −394.2 ± 5542
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −399.1
Std Dev 0
2
1
0
−1
−2

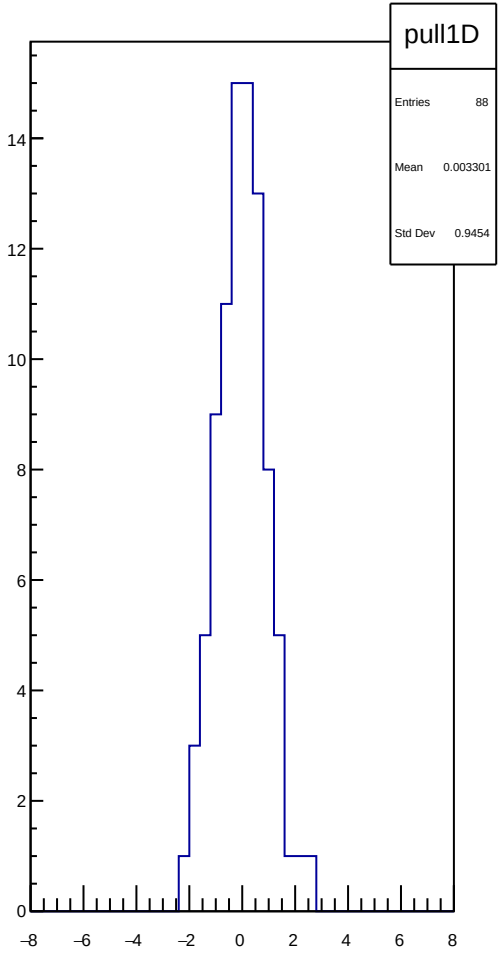

pull1D
Entries 88
Mean 0.003301
Std Dev 0.9454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

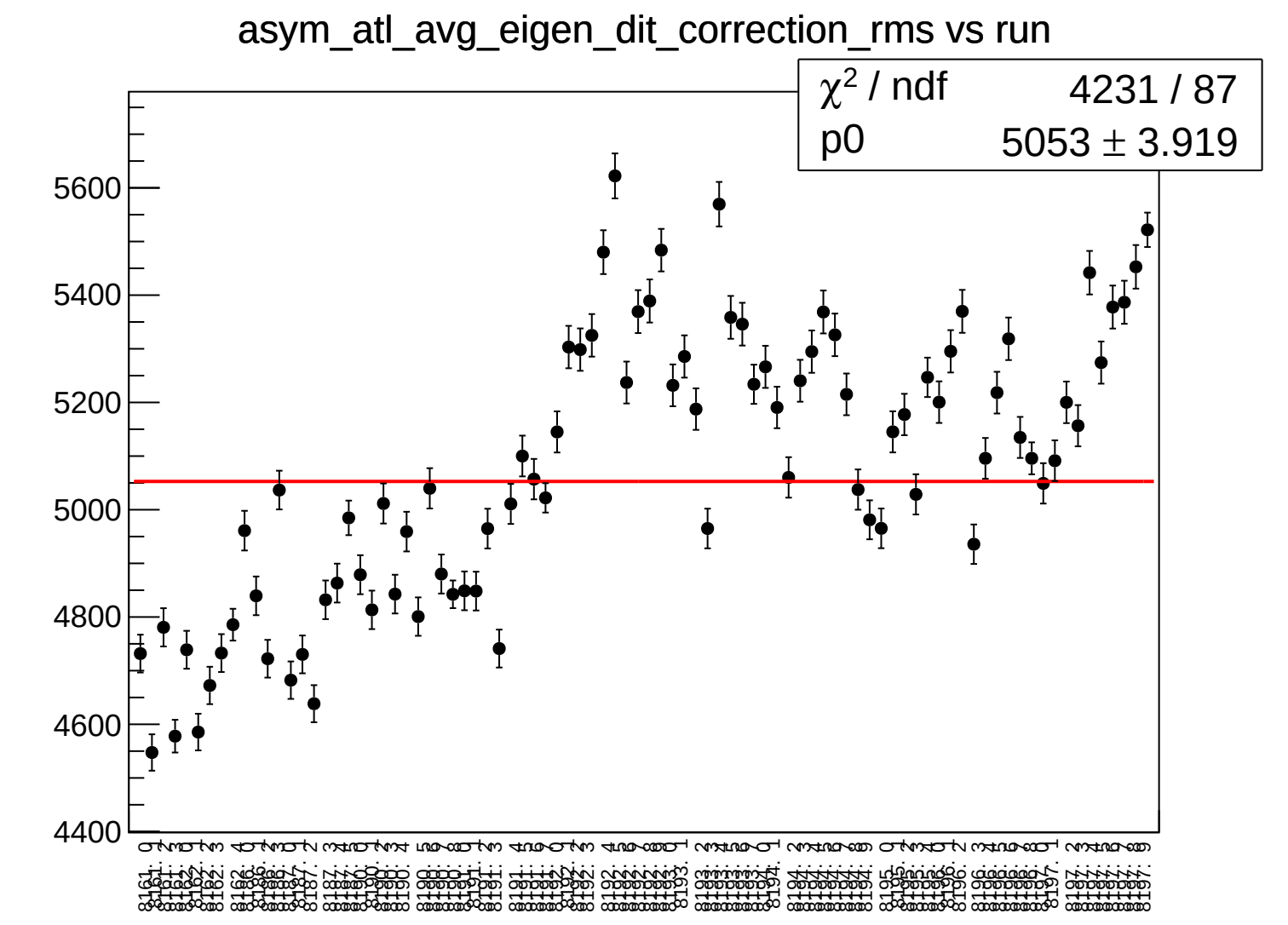

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 4231 / 87
p0 5053 ± 3.919
5600
5400
5200
5000
4800
4600
4400

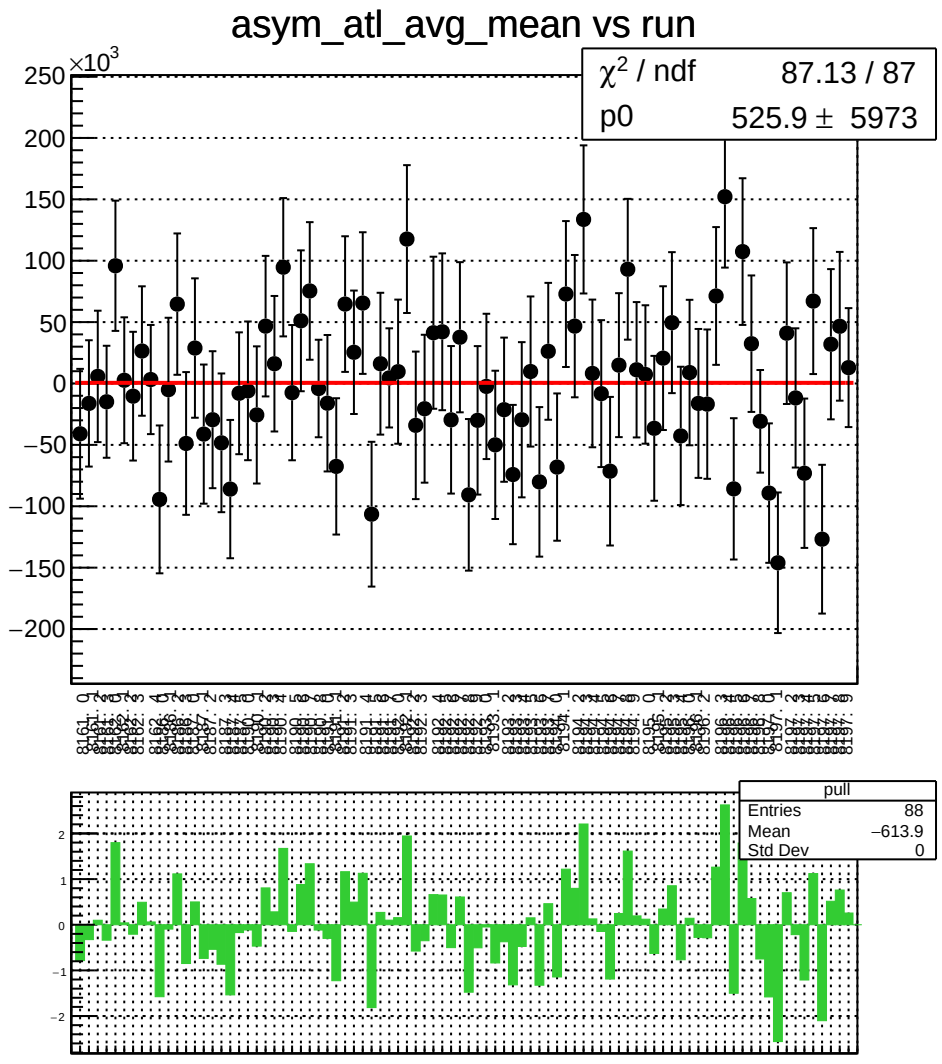

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 104.2 / 87
p0 −73.83 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −207.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01511
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

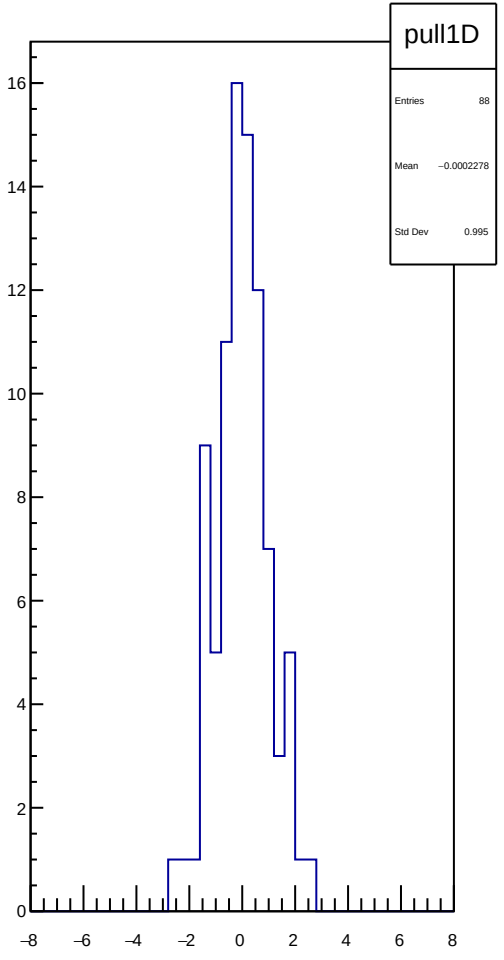

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 363.1 / 87
p0 1652 ± 1.28
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

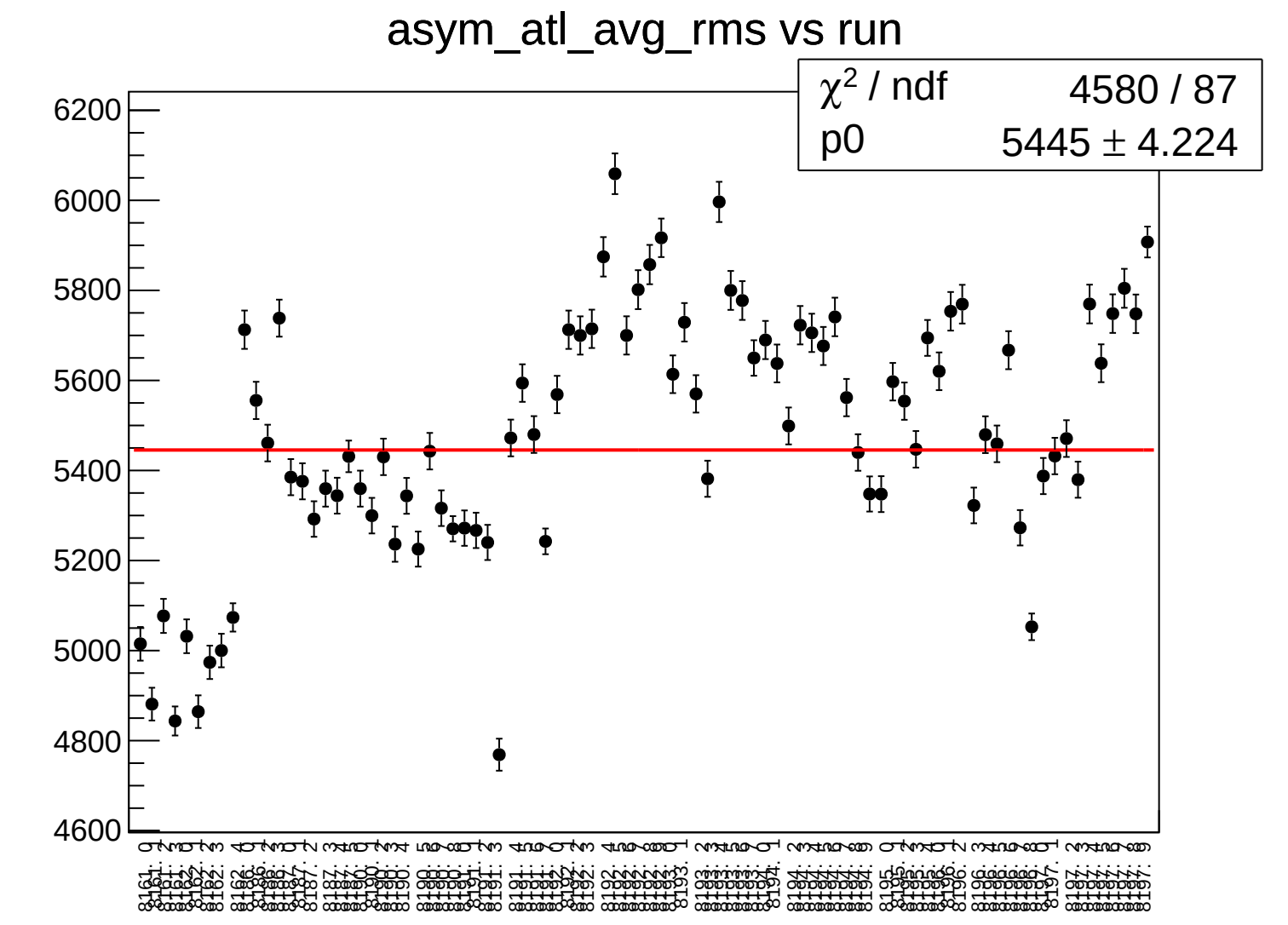

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.65 / 87
p0 −394.2 ± 5542
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −399.1
Std Dev 0
2
1
0
−1
−2

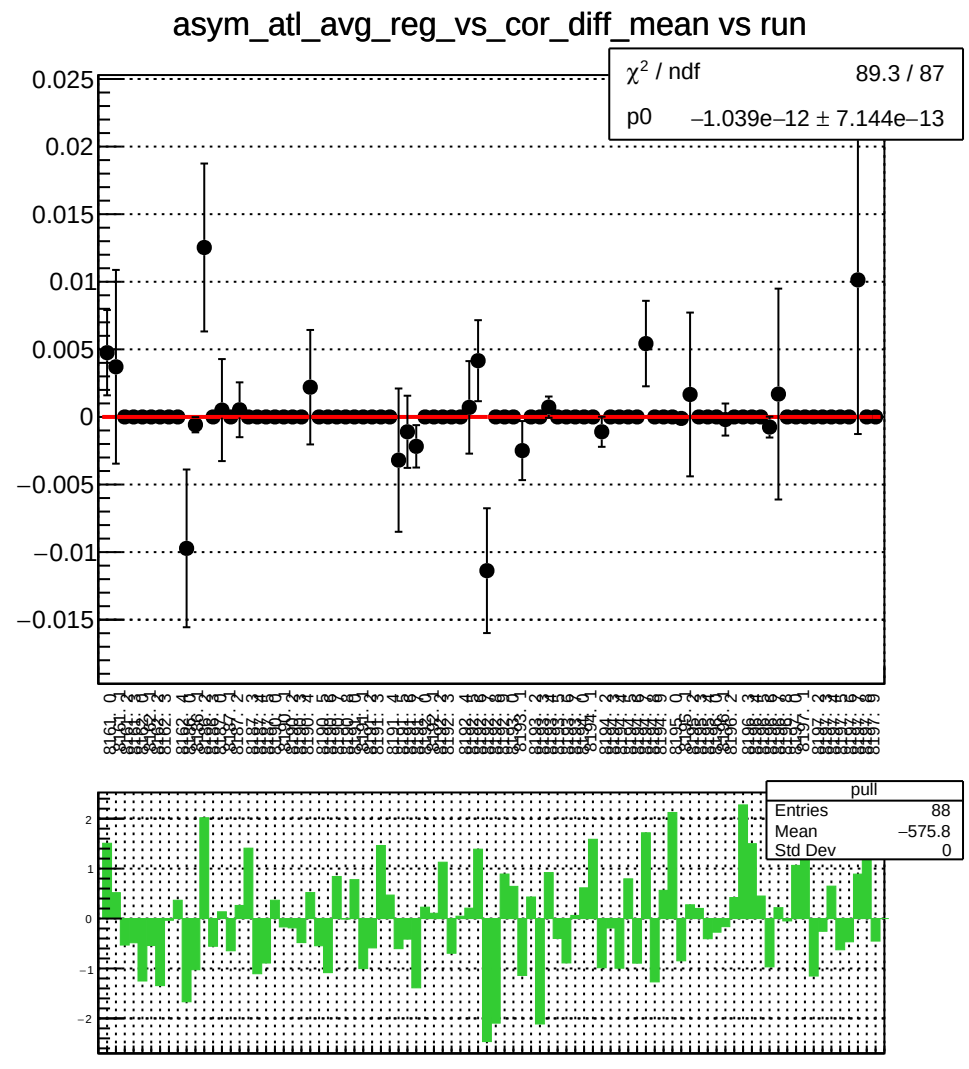

pull1D
Entries 88
Mean 0.003301
Std Dev 0.9454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

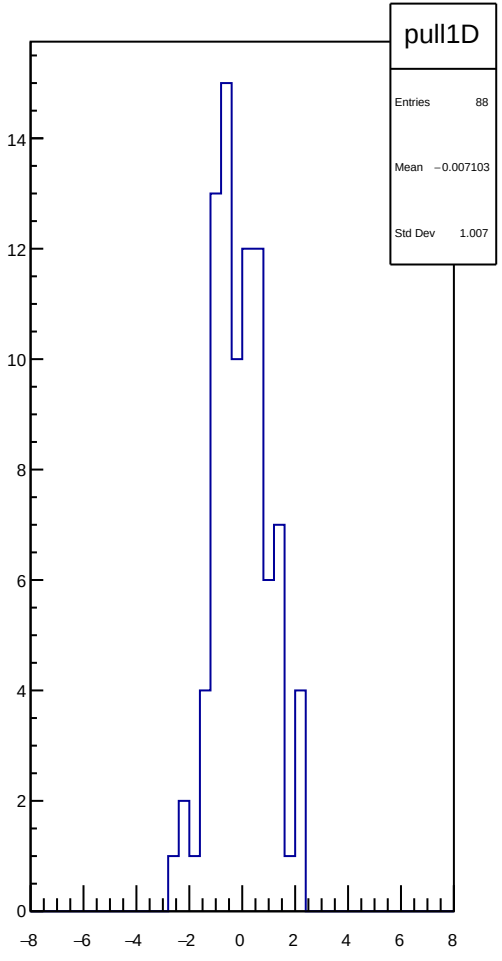

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 4231 / 87
p0 5053 ± 3.919
5600
5400
5200
5000
4800
4600
4400

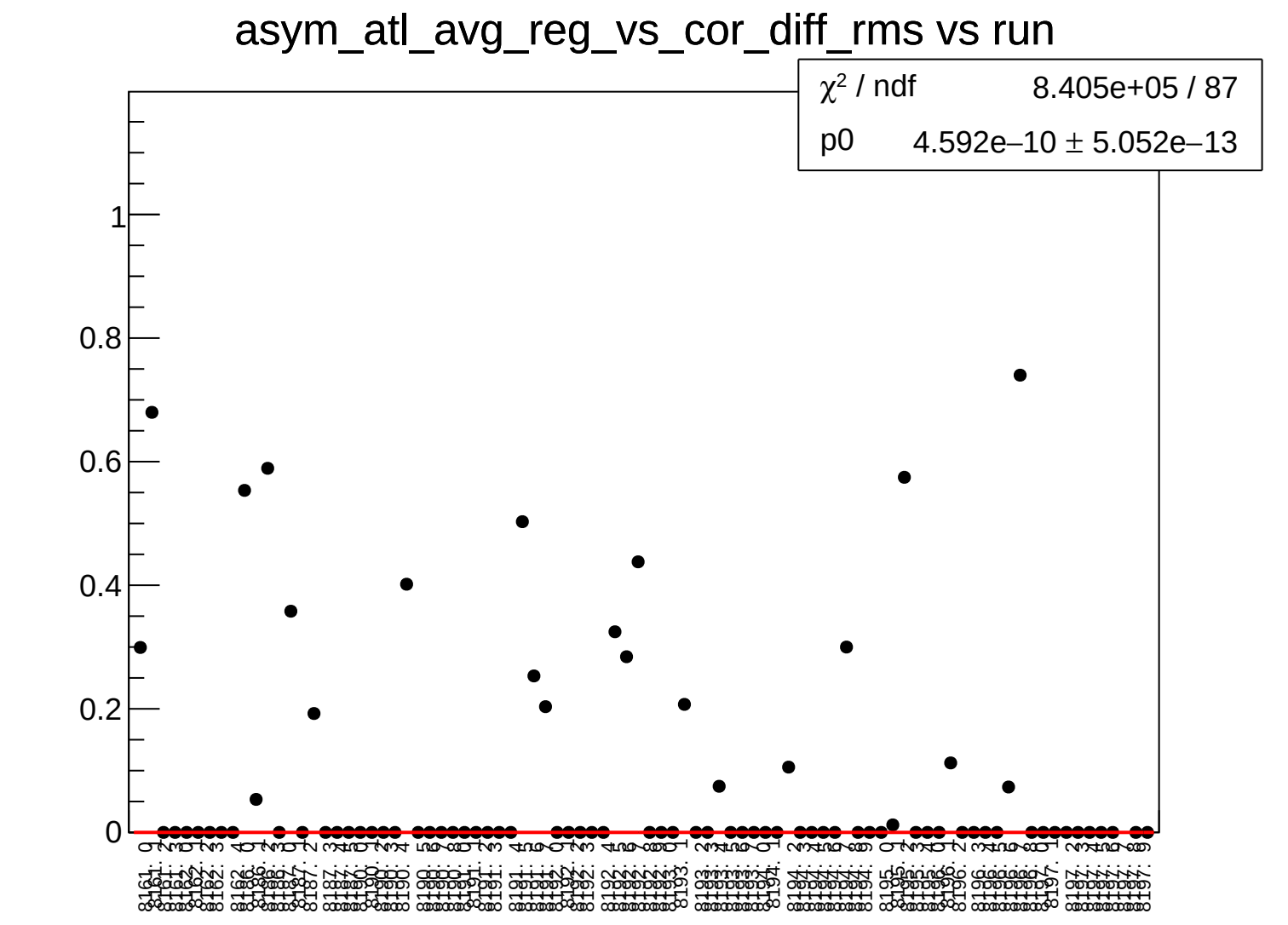

asym_atl_avg_mean vs run
×10^3
χ² / ndf 87.13 / 87
p0 525.9 ± 5973
pull
Entries 88
Mean −613.9
Std Dev 0

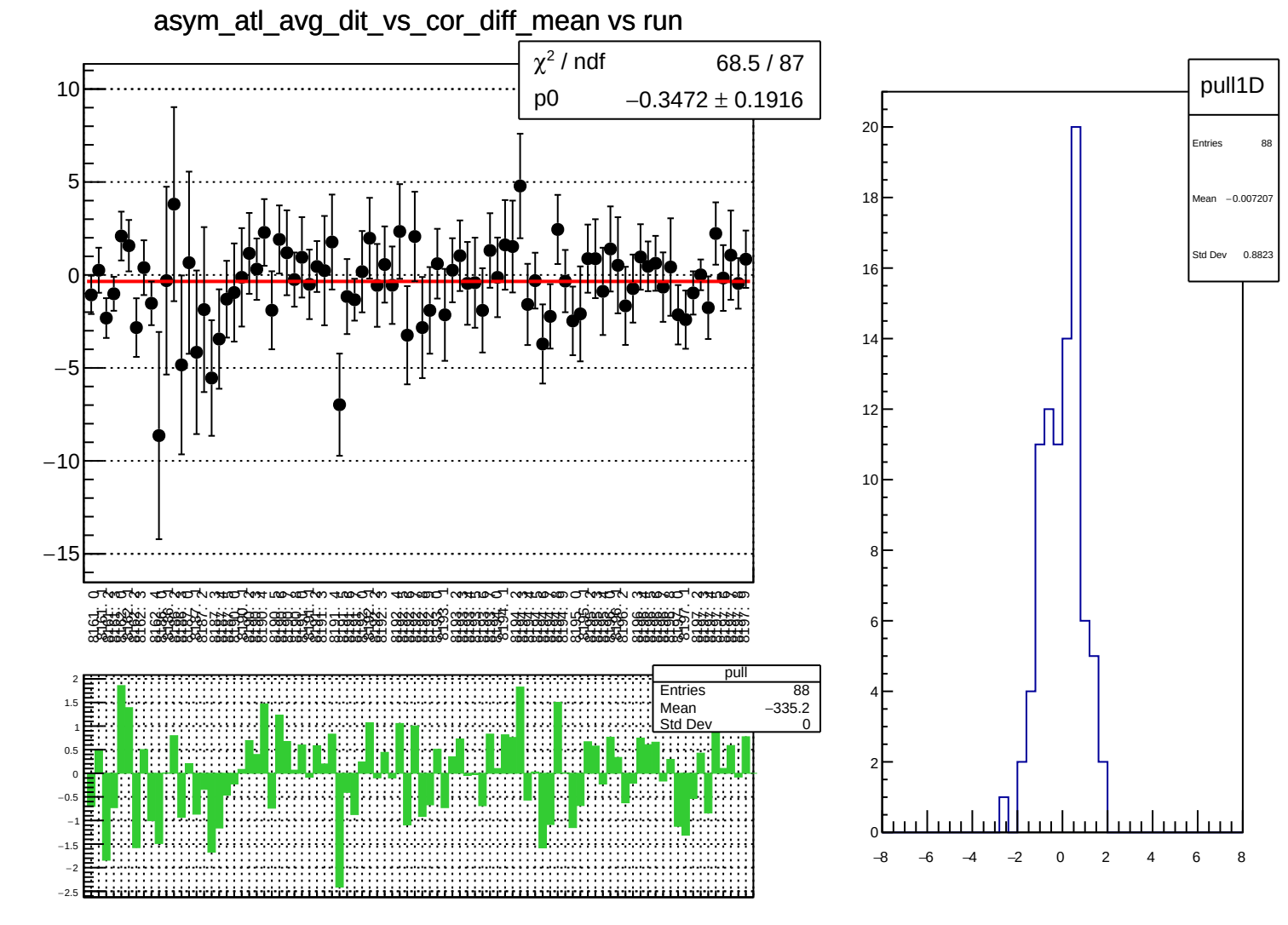

pull1D
Entries 88
Mean −0.0002278
Std Dev 0.995

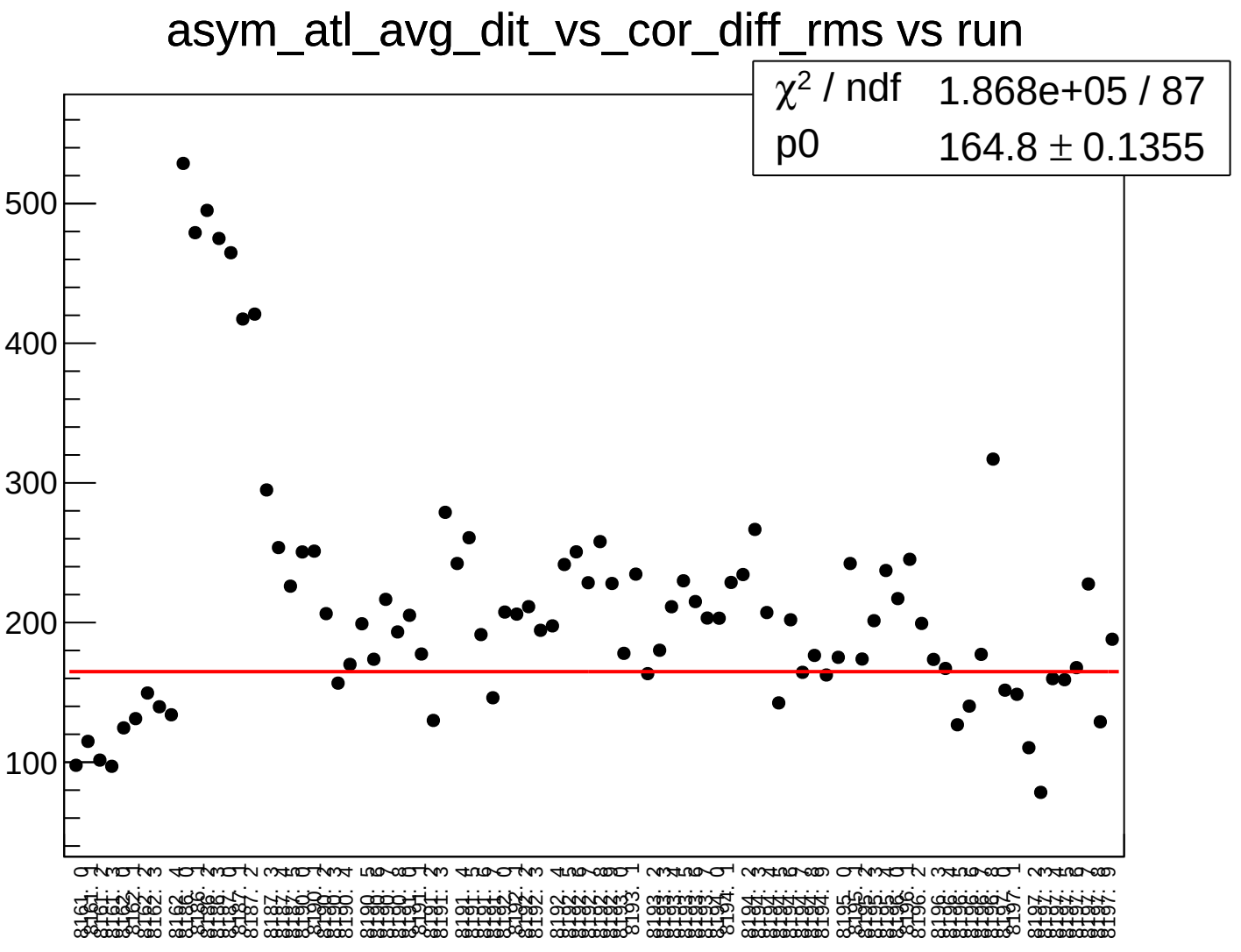

asym_atl_avg_rms vs run
χ² / ndf 4580 / 87
p0 5445 ± 4.224
6200
6000
5800
5600
5400
5200
5000
4800
4600

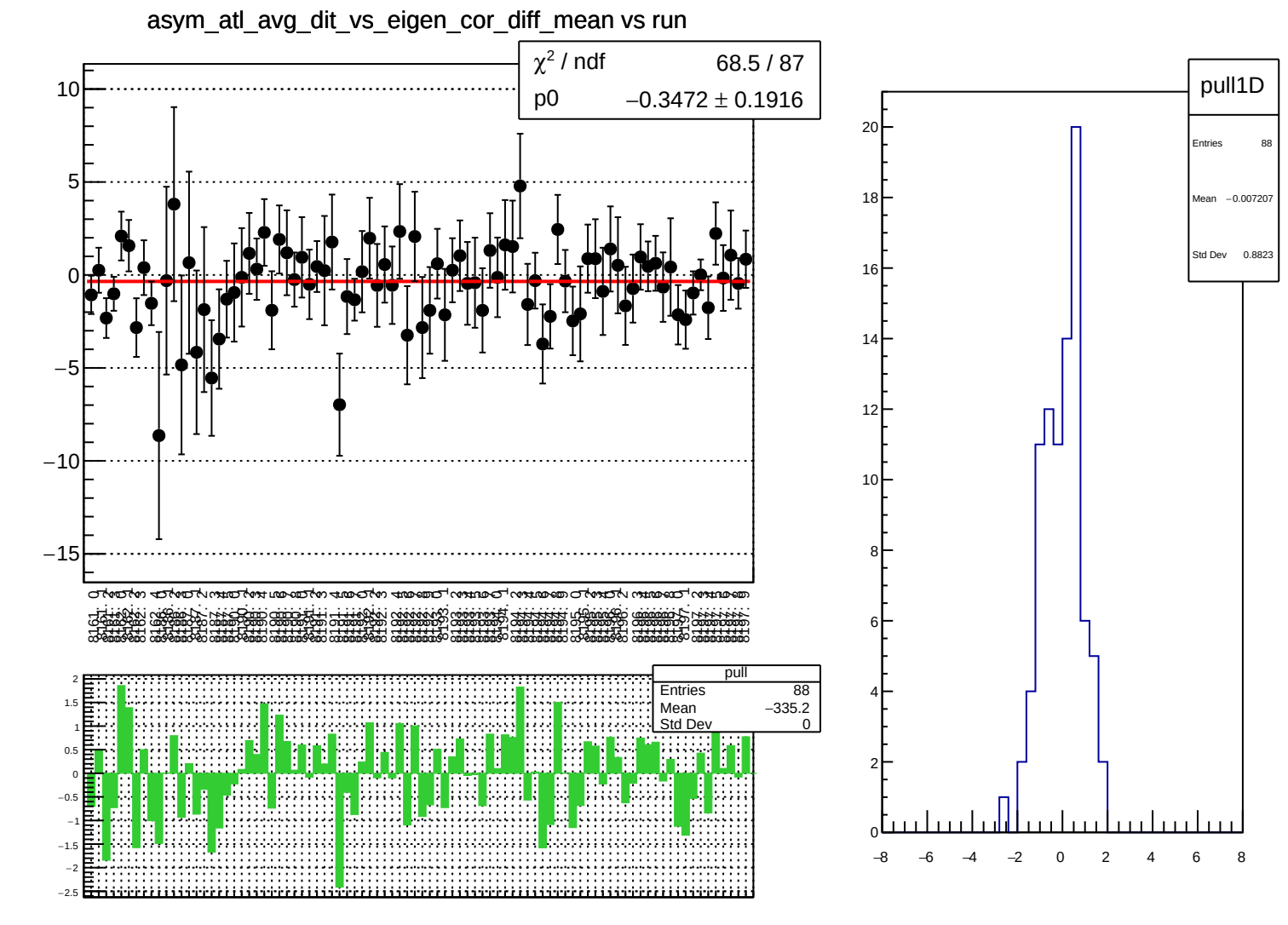

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.3 / 87
p0 −1.039e−12 ± 7.144e−13
pull
Entries 88
Mean −575.8
Std Dev 0

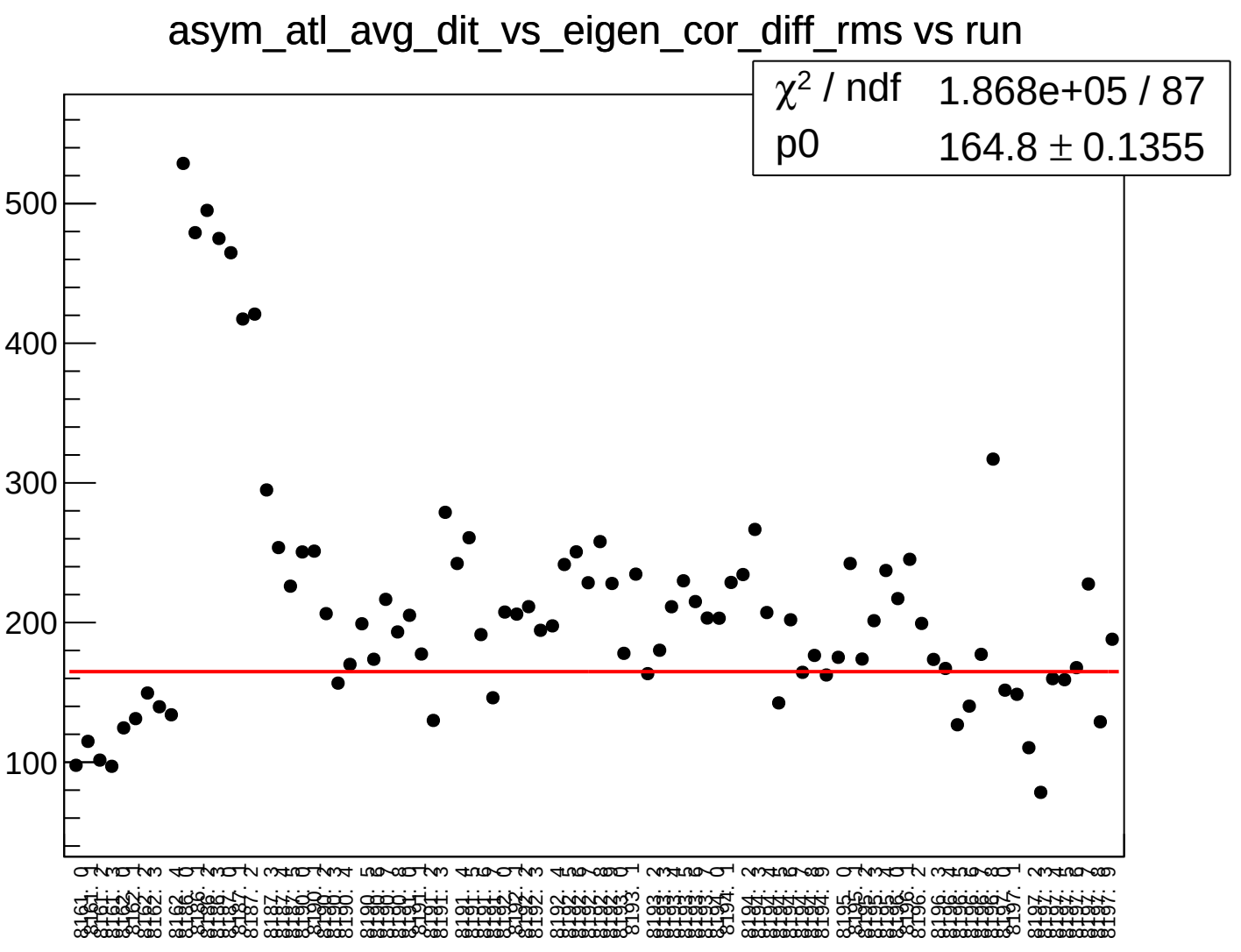

pull1D
Entries 88
Mean −0.007103
Std Dev 1.007

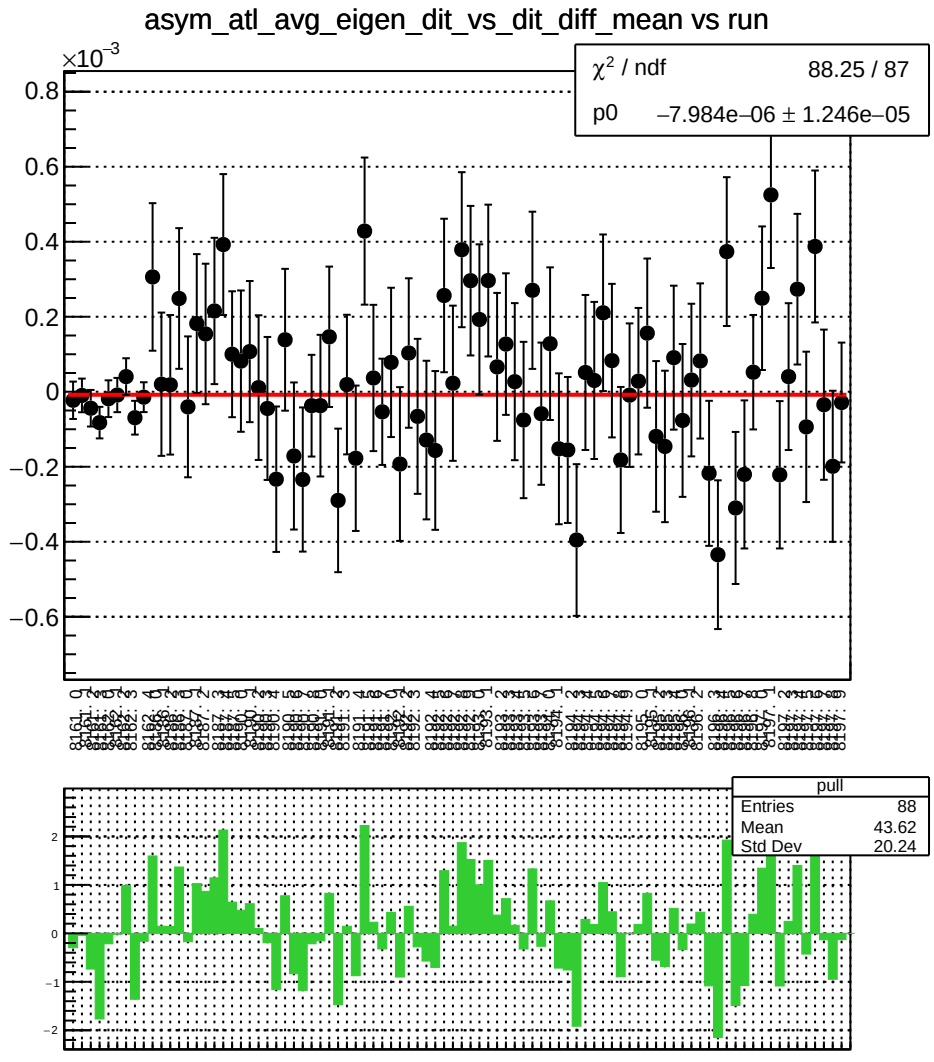

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 8.405e+05 / 87
p0 4.592e−10 ± 5.052e−13
1
0.8
0.6
0.4
0.2
0

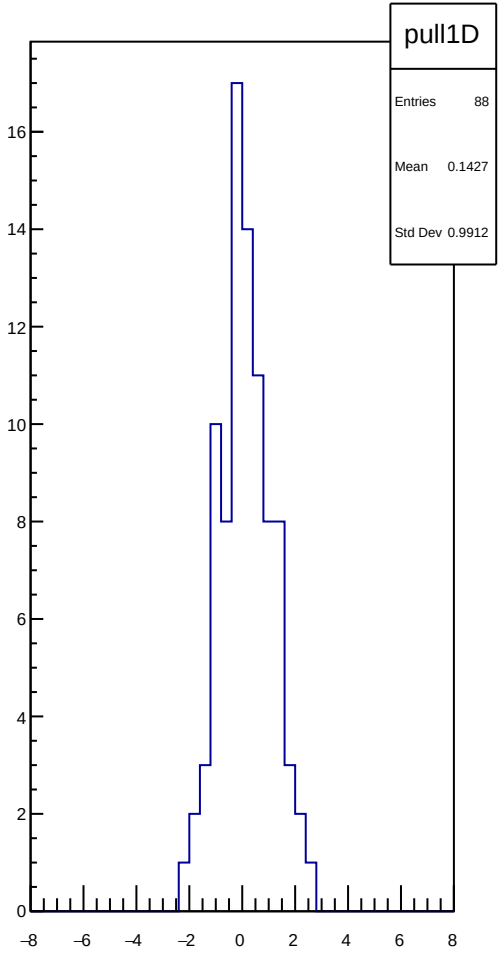

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.5 / 87
p0 −0.3472 ± 0.1916
pull
Entries 88
Mean −335.2
Std Dev 0
pull1D
Entries 88
Mean −0.007207
Std Dev 0.8823

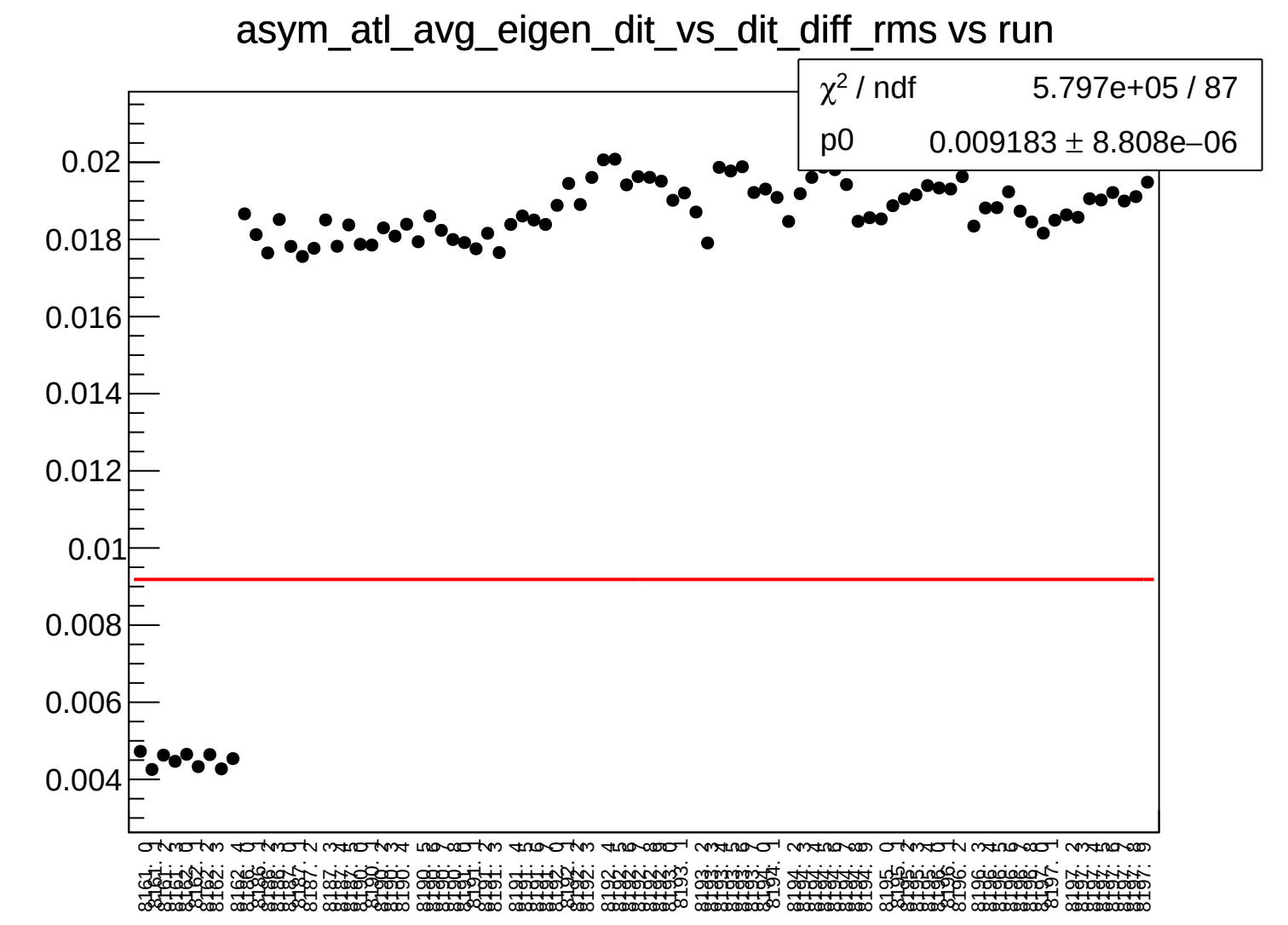

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.868e+05 / 87
p0 164.8 ± 0.1355
500
400
300
200
100

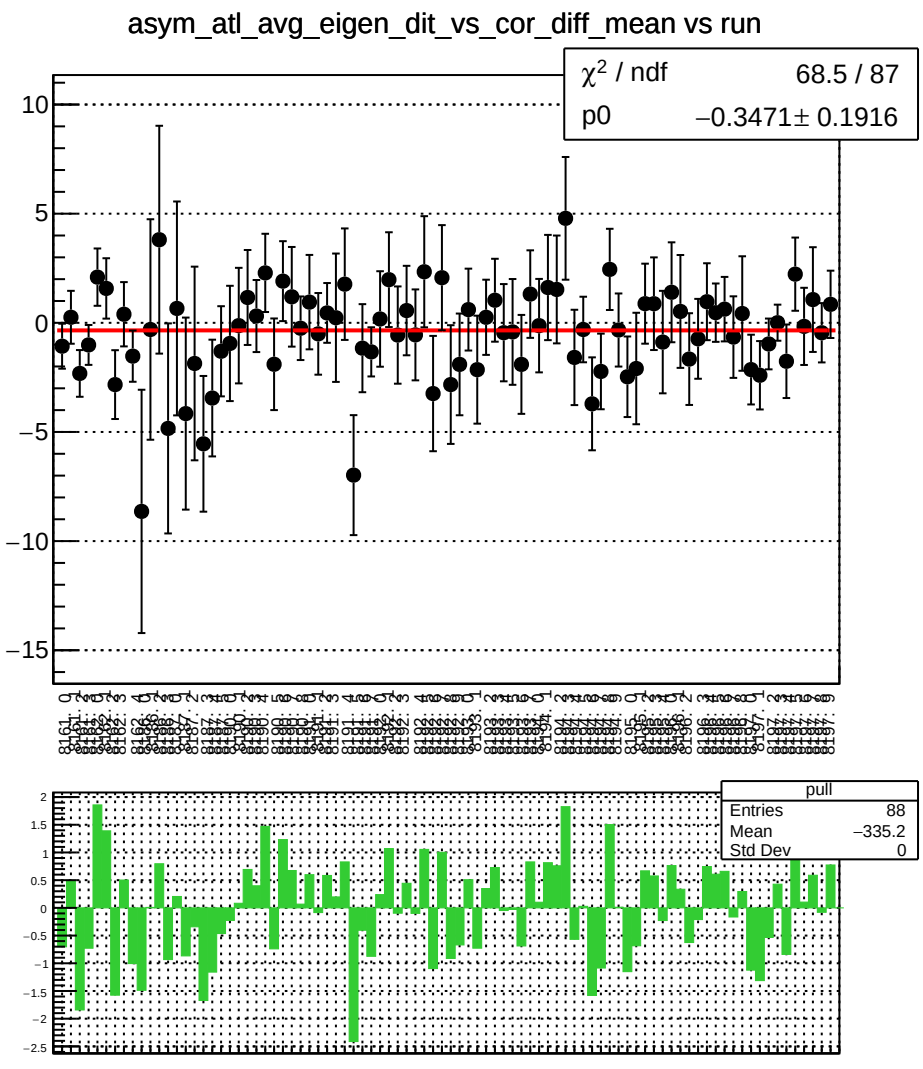

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.5 / 87
p0 −0.3472 ± 0.1916
pull
Entries 88
Mean −335.2
Std Dev 0
pull1D
Entries 88
Mean −0.007207
Std Dev 0.8823

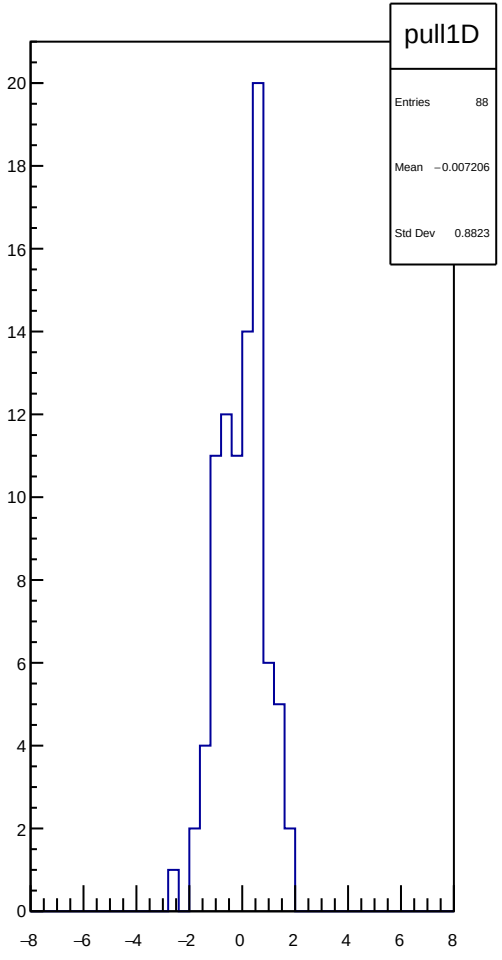

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.868e+05 / 87
p0 164.8 ± 0.1355
500
400
300
200
100

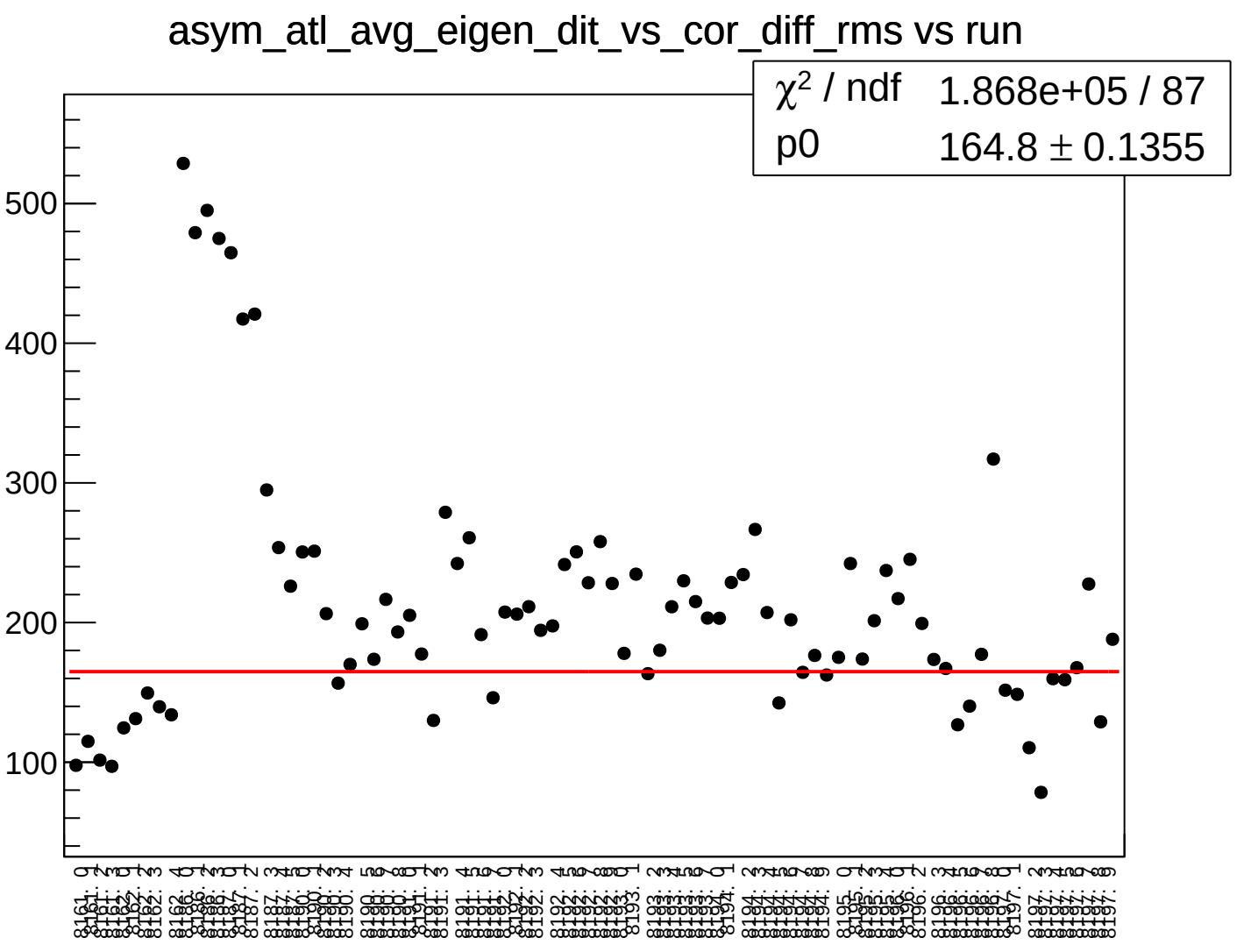

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.25 / 87
p0 −7.984e−06 ± 1.246e−05
pull
Entries 88
Mean 43.62
Std Dev 20.24

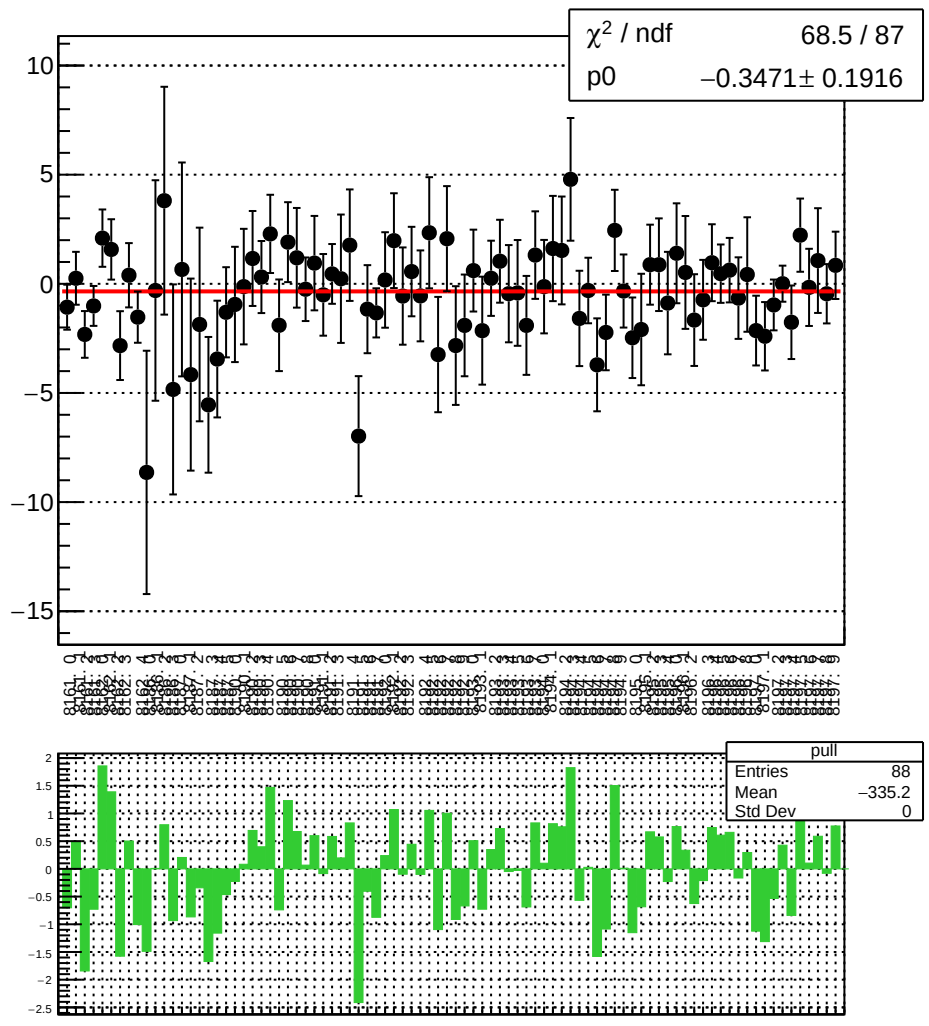

pull1D
Entries 88
Mean 0.1427
Std Dev 0.9912

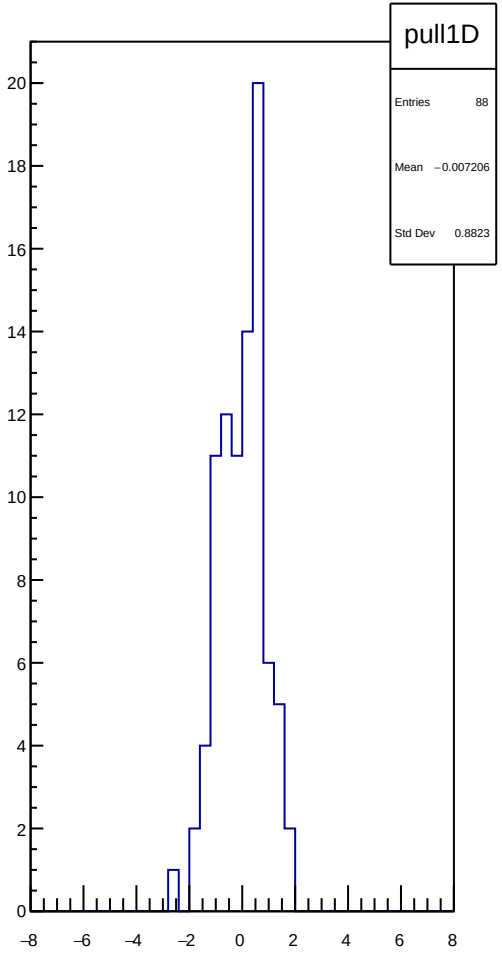

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.797e+05 / 87
p0 0.009183 ± 8.808e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

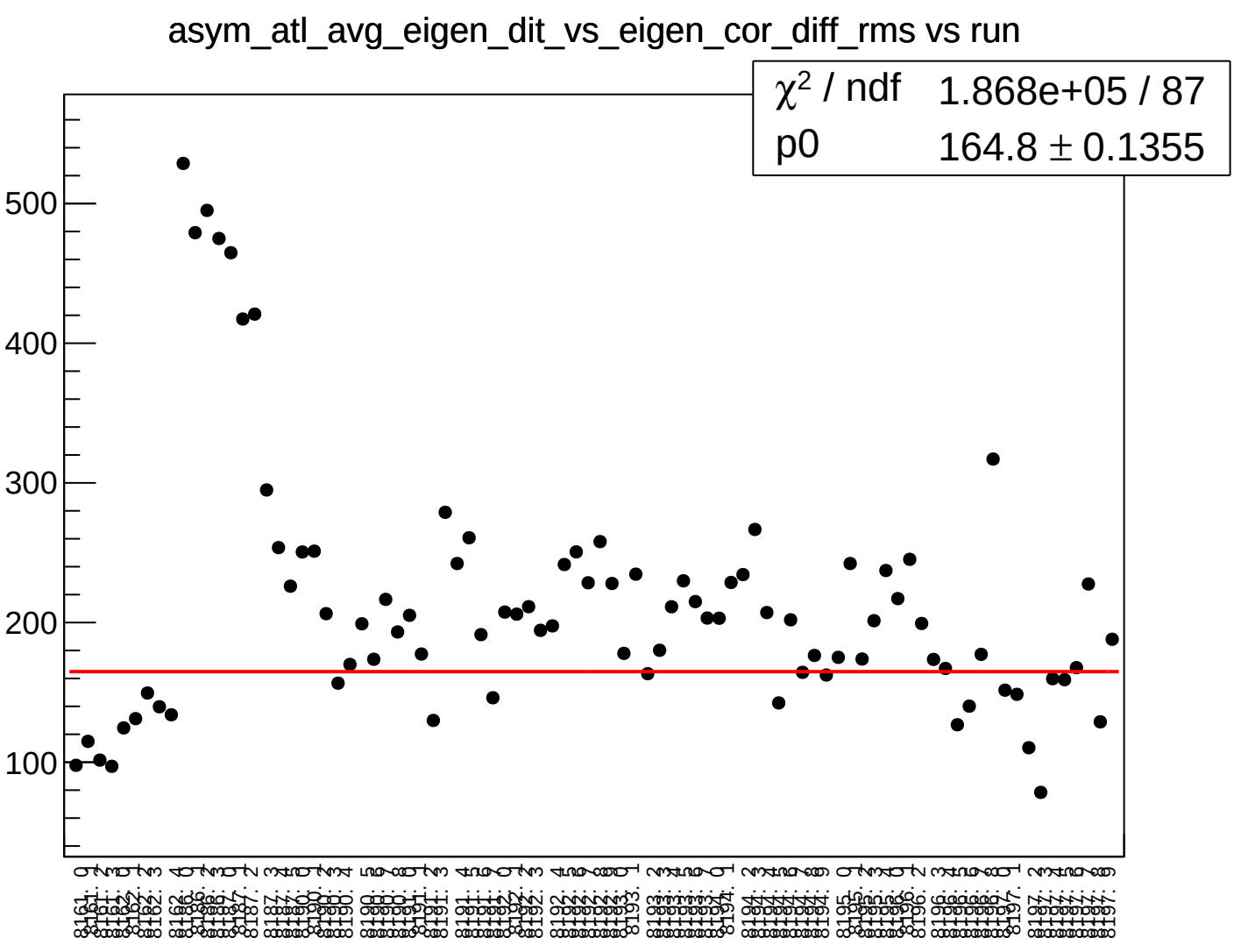

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.5 / 87
p0 −0.3471± 0.1916
pull
Entries 88
Mean −335.2
Std Dev 0

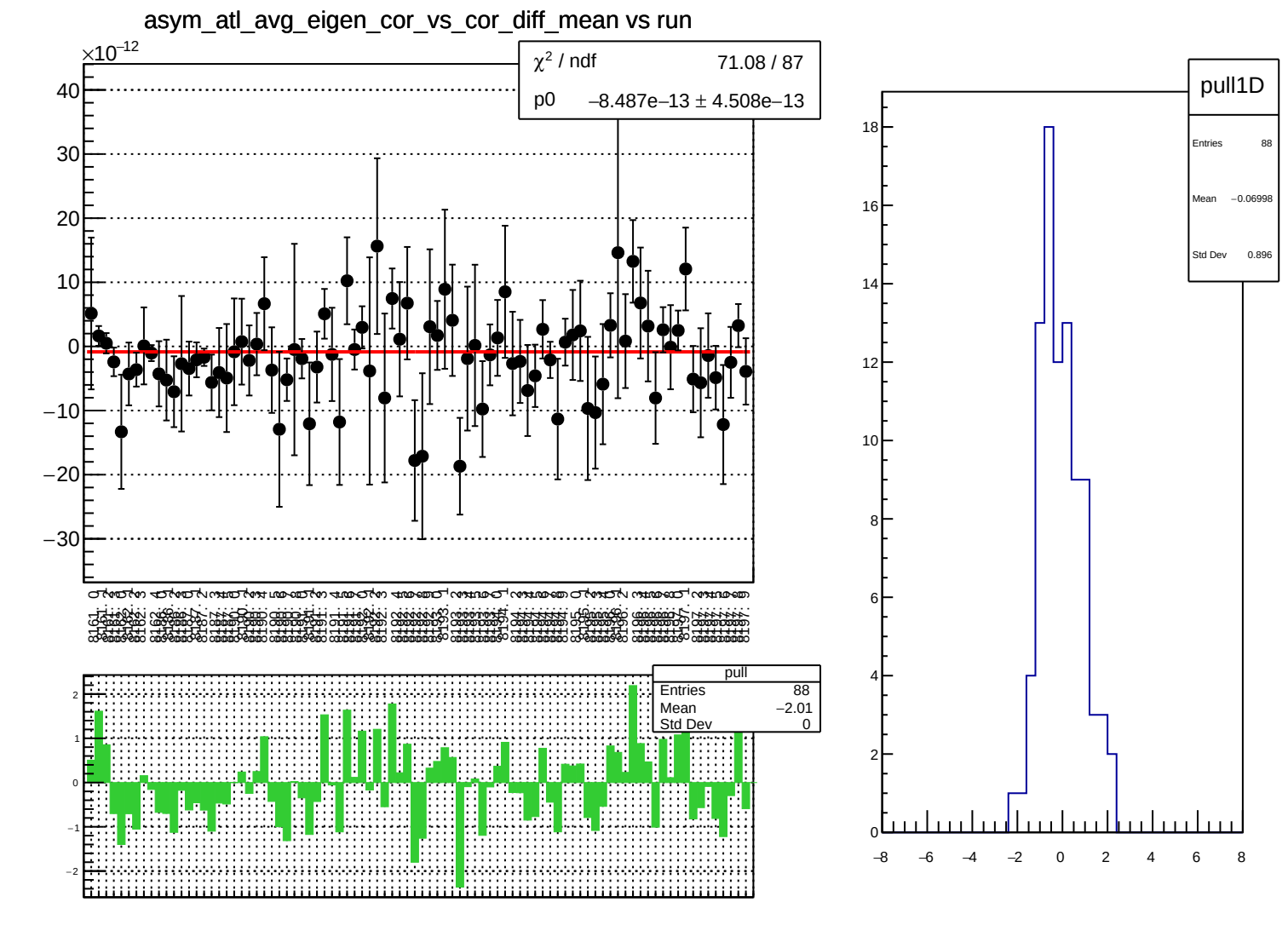

pull1D
Entries 88
Mean −0.007206
Std Dev 0.8823

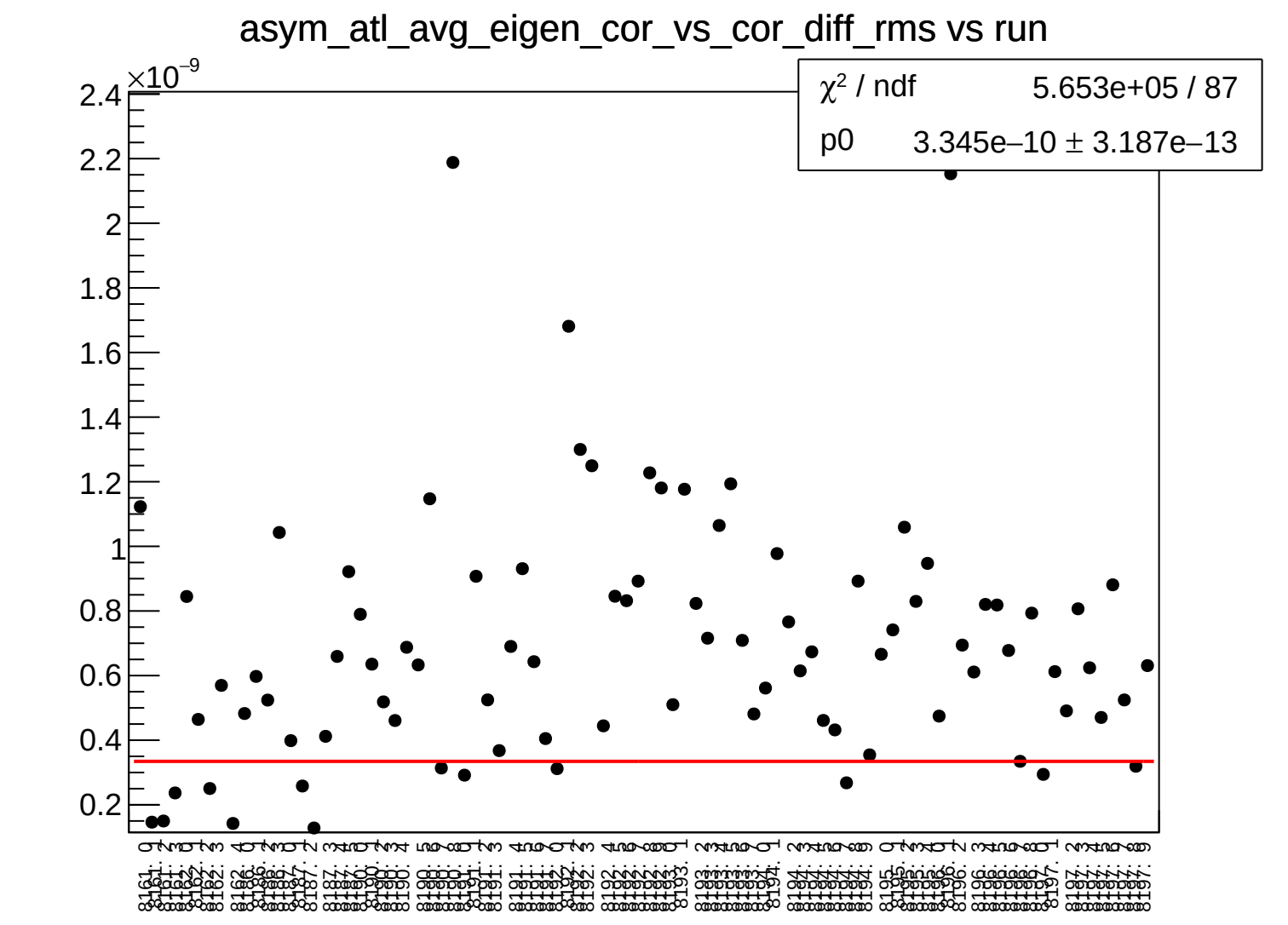

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.868e+05 / 87
p0 164.8 ± 0.1355
500
400
300
200
100

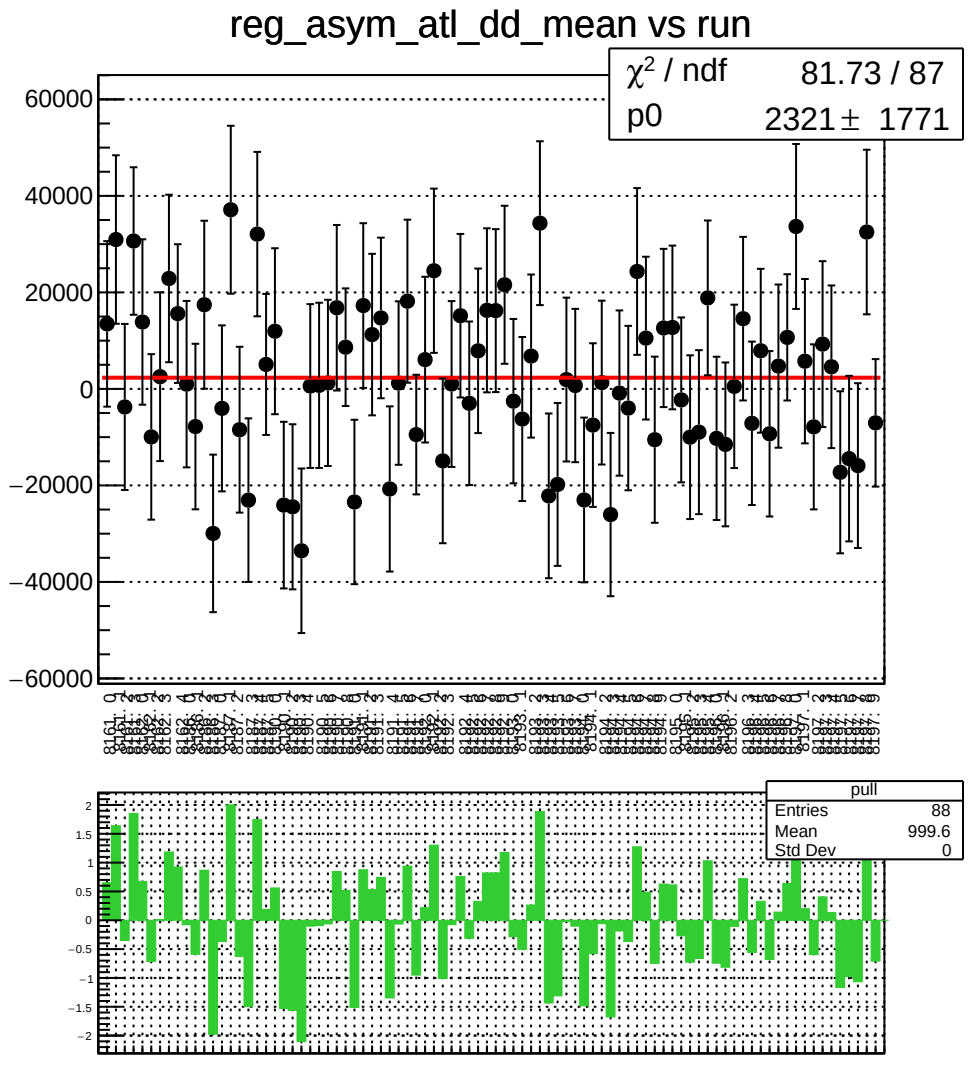

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.5 / 87
p0 −0.3471± 0.1916
pull
Entries 88
Mean −335.2
Std Dev 0

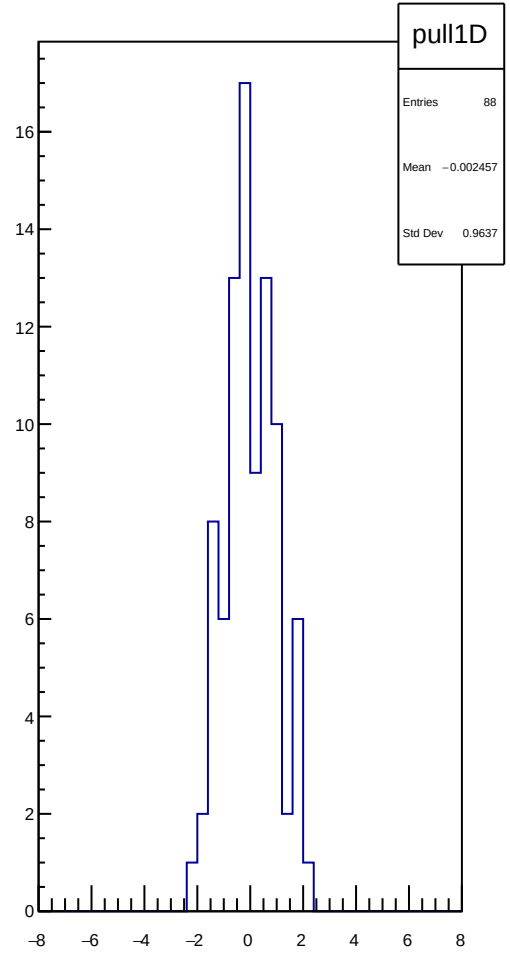

pull1D
Entries 88
Mean −0.007206
Std Dev 0.8823

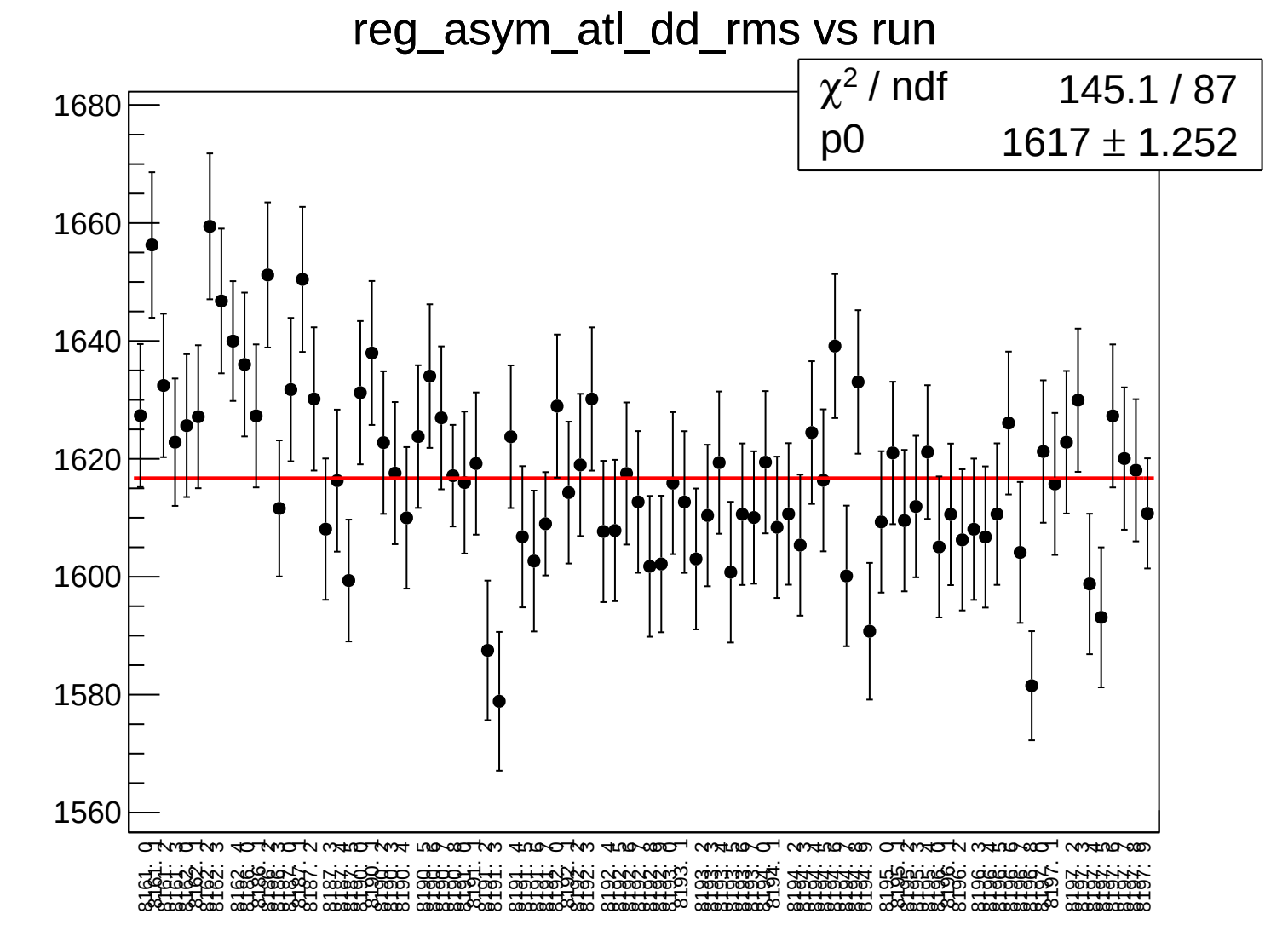

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.868e+05 / 87
p0 164.8 ± 0.1355
500
400
300
200
100

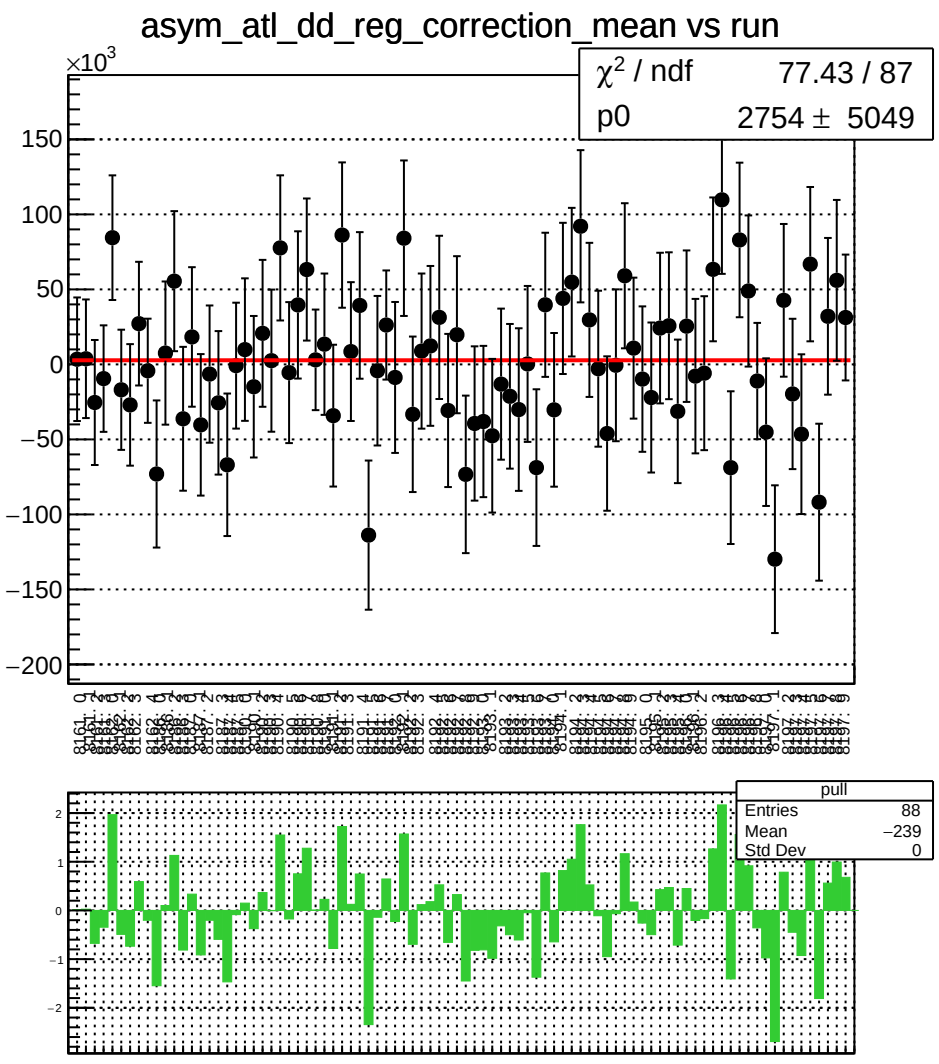

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.08 / 87
p0 −8.487e−13 ± 4.508e−13
pull
Entries 88
Mean −2.01
Std Dev 0
pull1D
Entries 88
Mean −0.06998
Std Dev 0.896

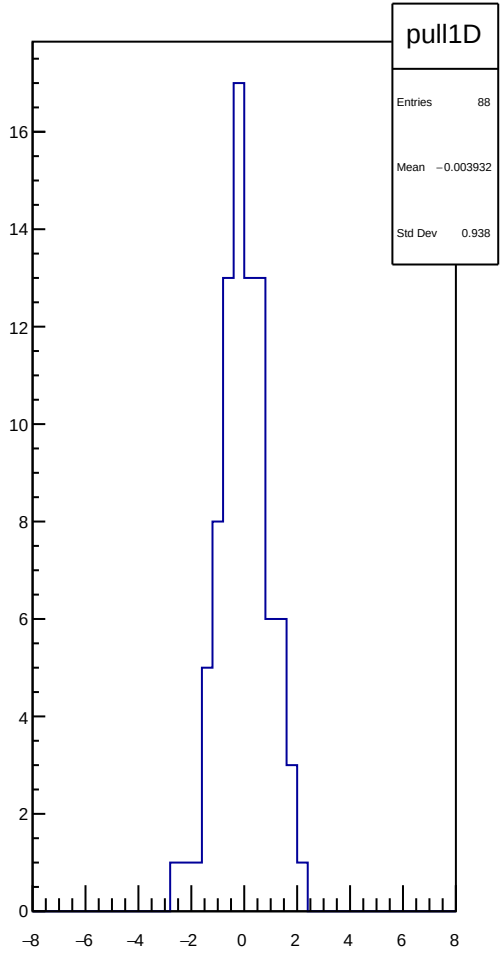

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.653e+05 / 87
p0 3.345e−10 ± 3.187e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

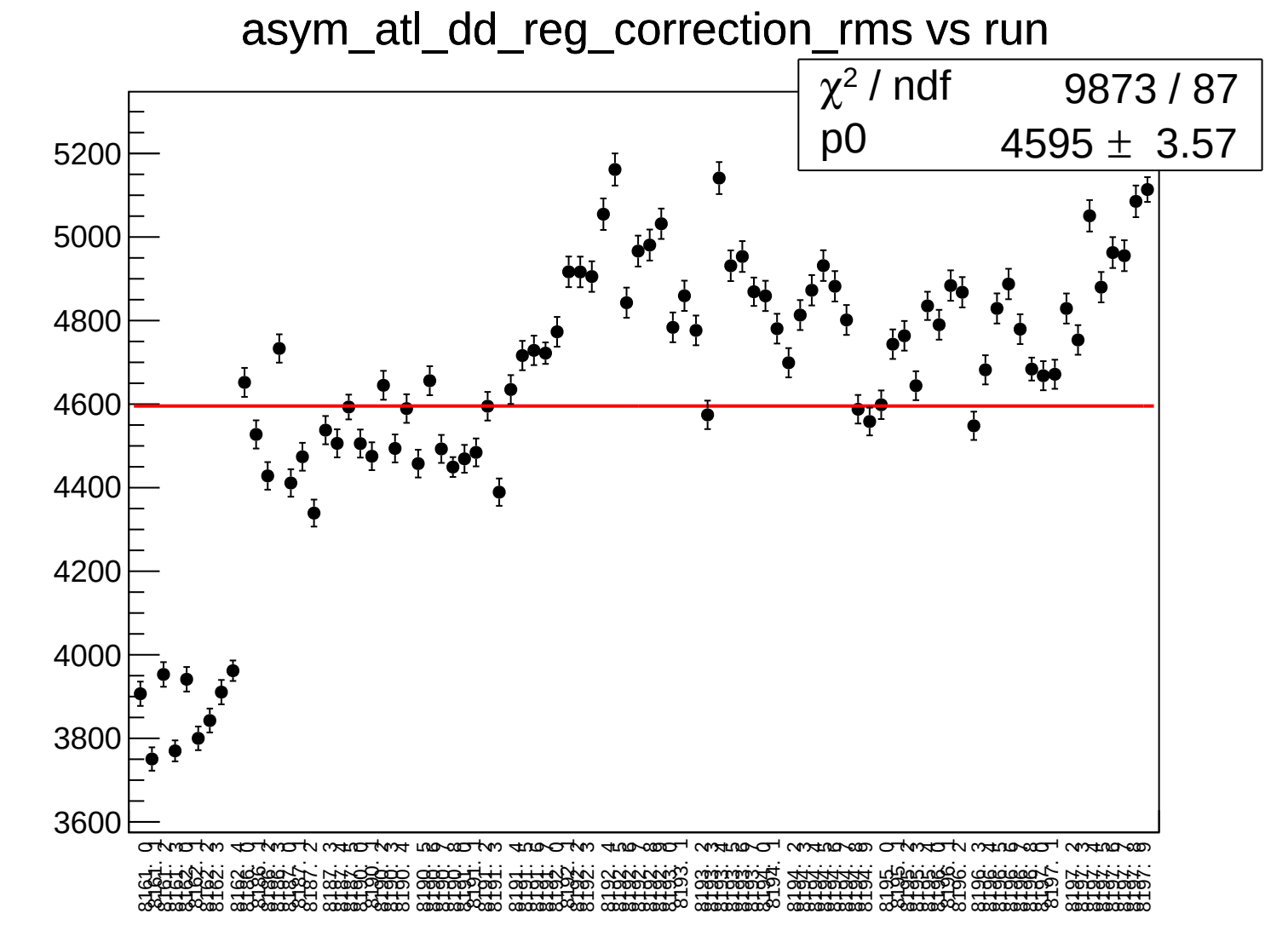

reg_asym_atl_dd_mean vs run
χ² / ndf 81.73 / 87
p0 2321 ± 1771
pull
Entries 88
Mean 999.6
Std Dev 0

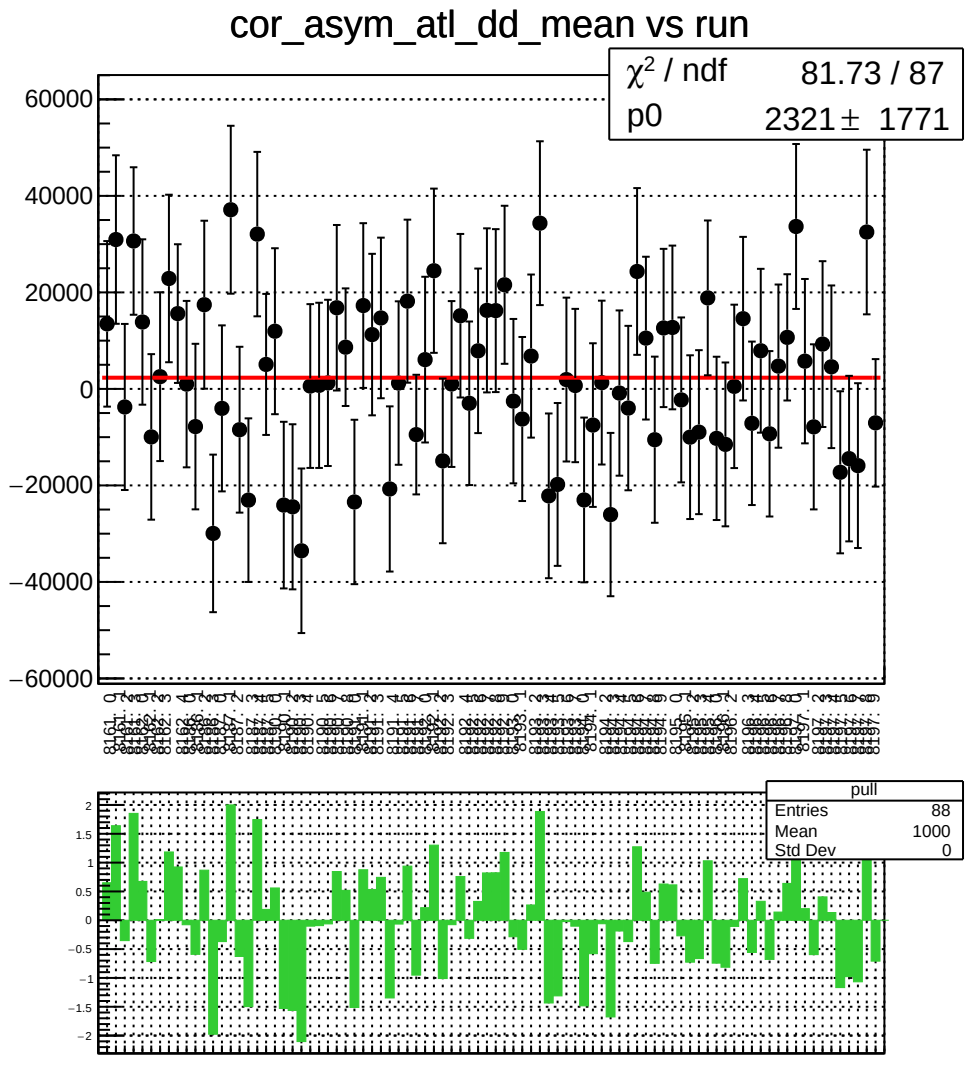

pull1D
Entries 88
Mean −0.002457
Std Dev 0.9637

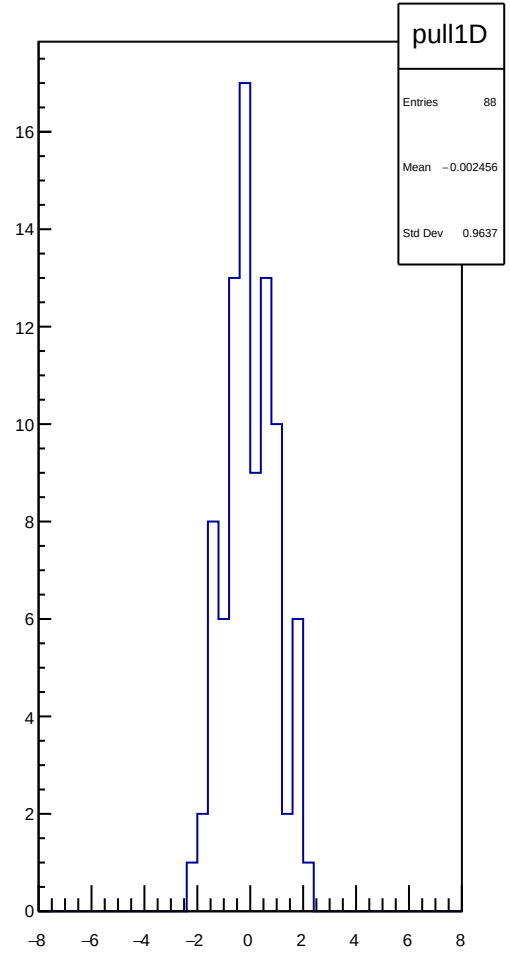

reg_asym_atl_dd_rms vs run
χ² / ndf 145.1 / 87
p0 1617 ± 1.252
1680
1660
1640
1620
1600
1580
1560

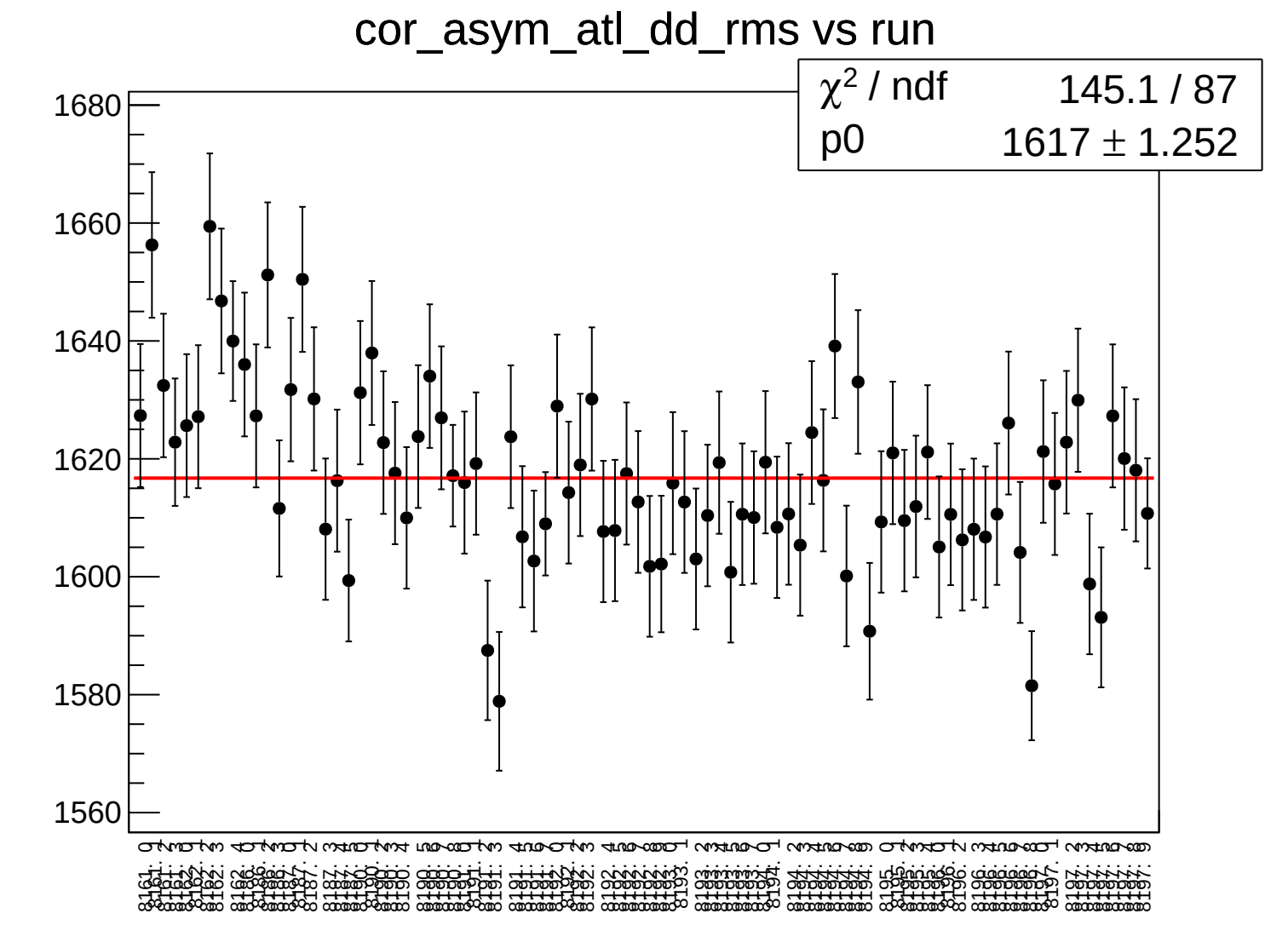

asym_atl_dd_reg_correction_mean vs run
χ² / ndf 77.43 / 87
p0 2754 ± 5049
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −239
Std Dev 0
2
1
0
−1
−2

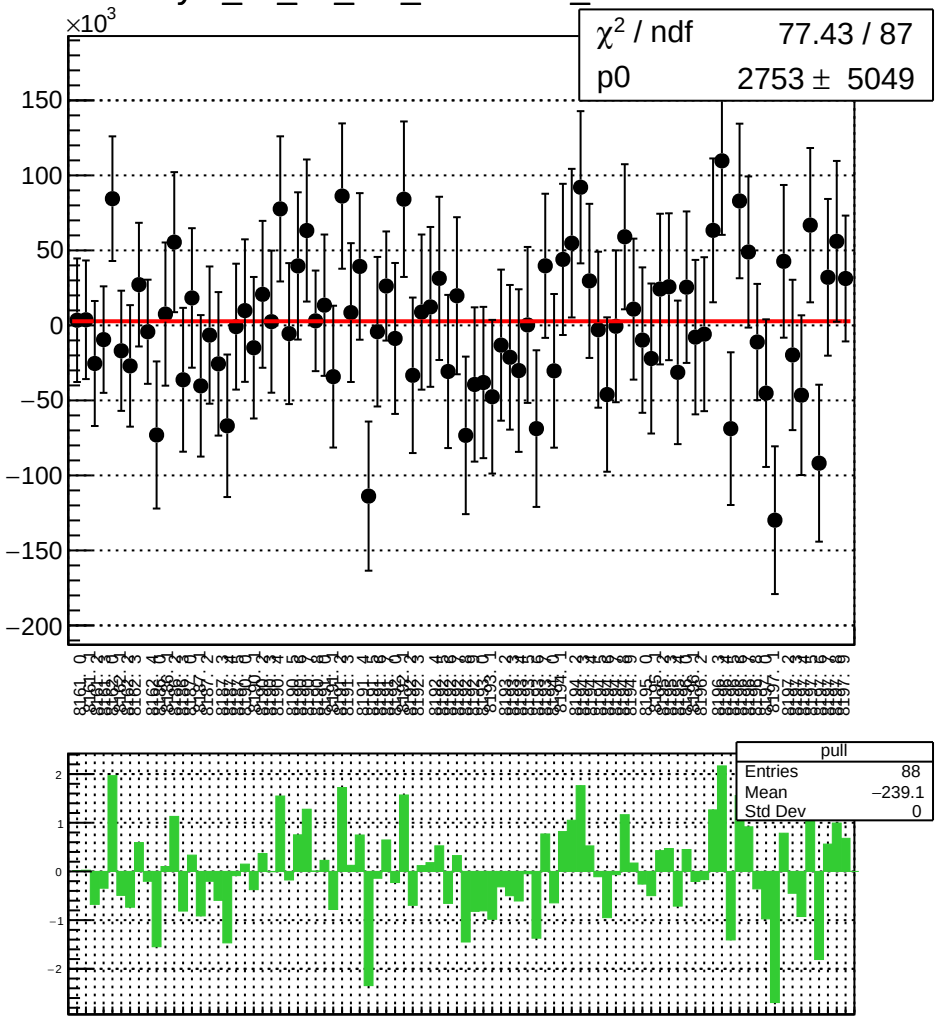

pull1D
Entries 88
Mean −0.003932
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

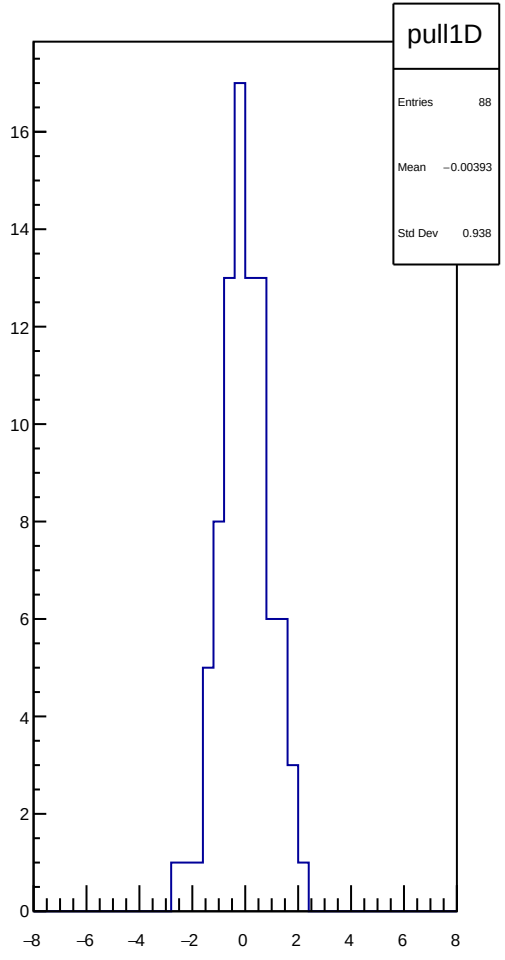

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 9873 / 87
p0 4595 ± 3.57
5200
5000
4800
4600
4400
4200
4000
3800
3600

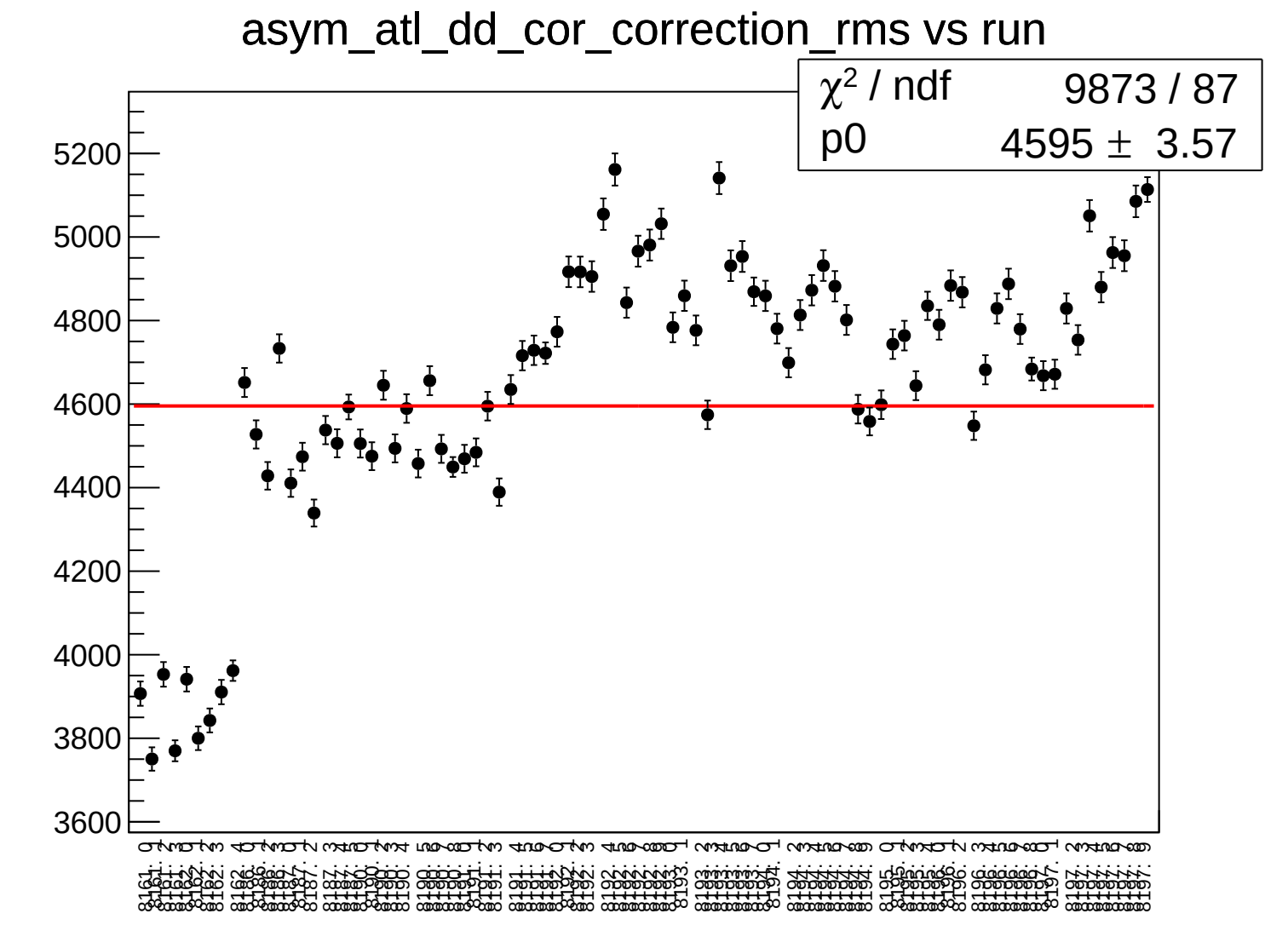

cor_asym_atl_dd_mean vs run
χ² / ndf 81.73 / 87
p0 2321 ± 1771
pull
Entries 88
Mean 1000
Std Dev 0

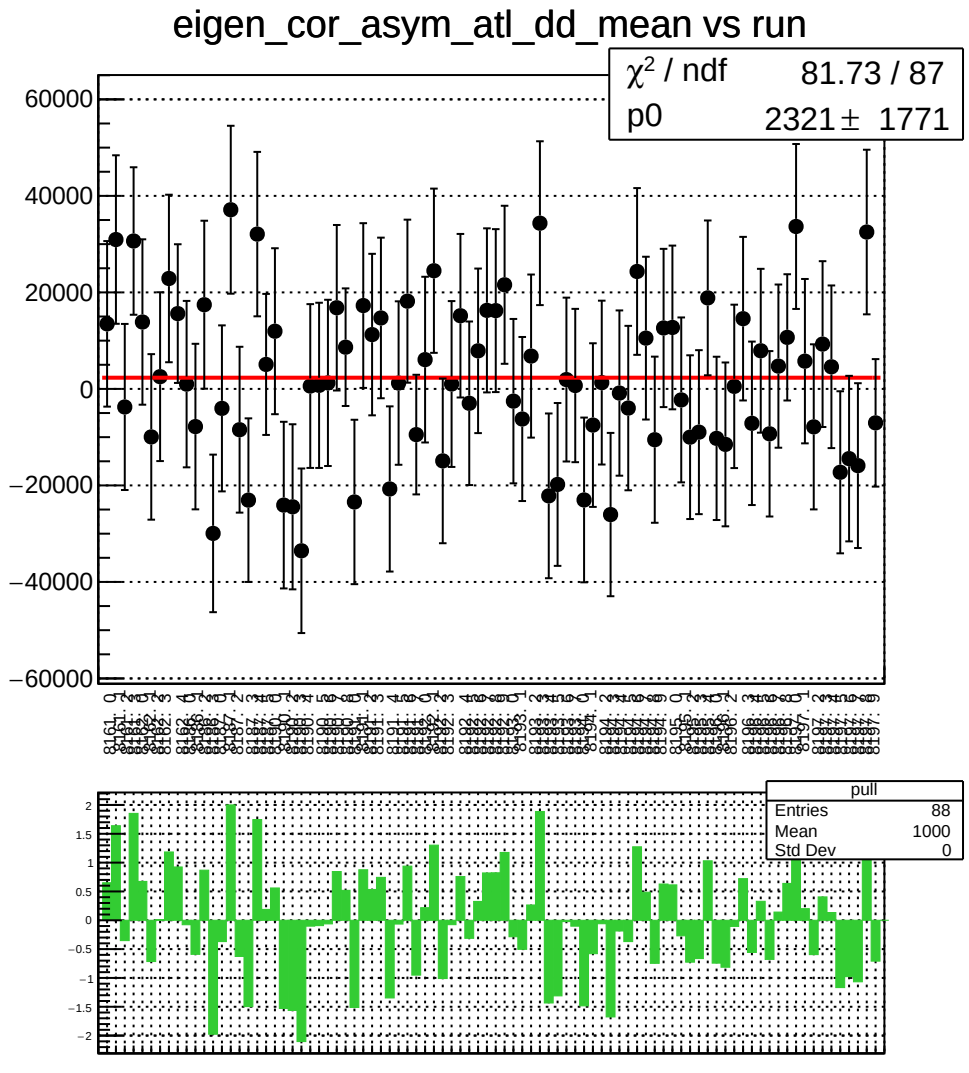

pull1D
Entries 88
Mean −0.002456
Std Dev 0.9637

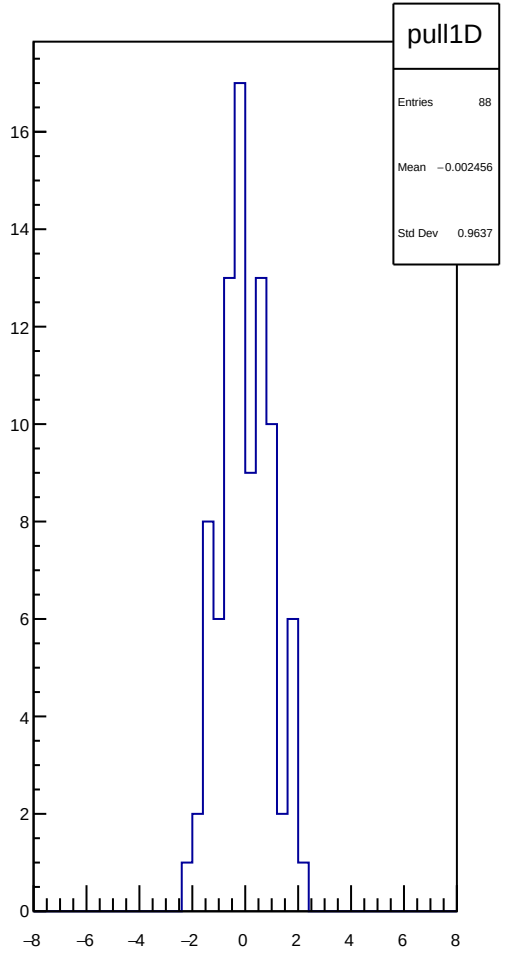

cor_asym_atl_dd_rms vs run
χ² / ndf 145.1 / 87
p0 1617 ± 1.252
1680
1660
1640
1620
1600
1580
1560

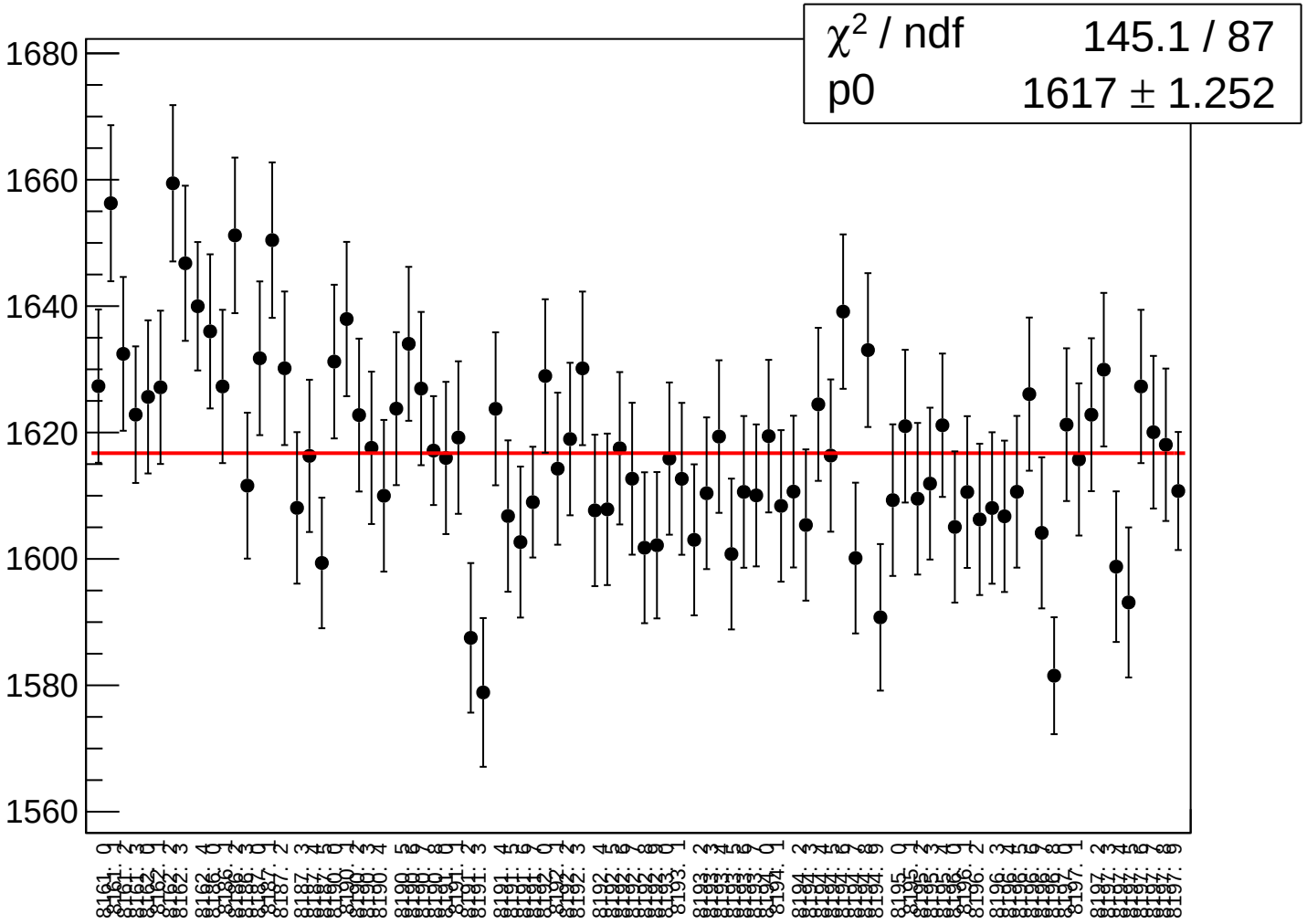

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 77.43 / 87
p0 2753 ± 5049
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −239.1
Std Dev 0
2
1
0
−1
−2

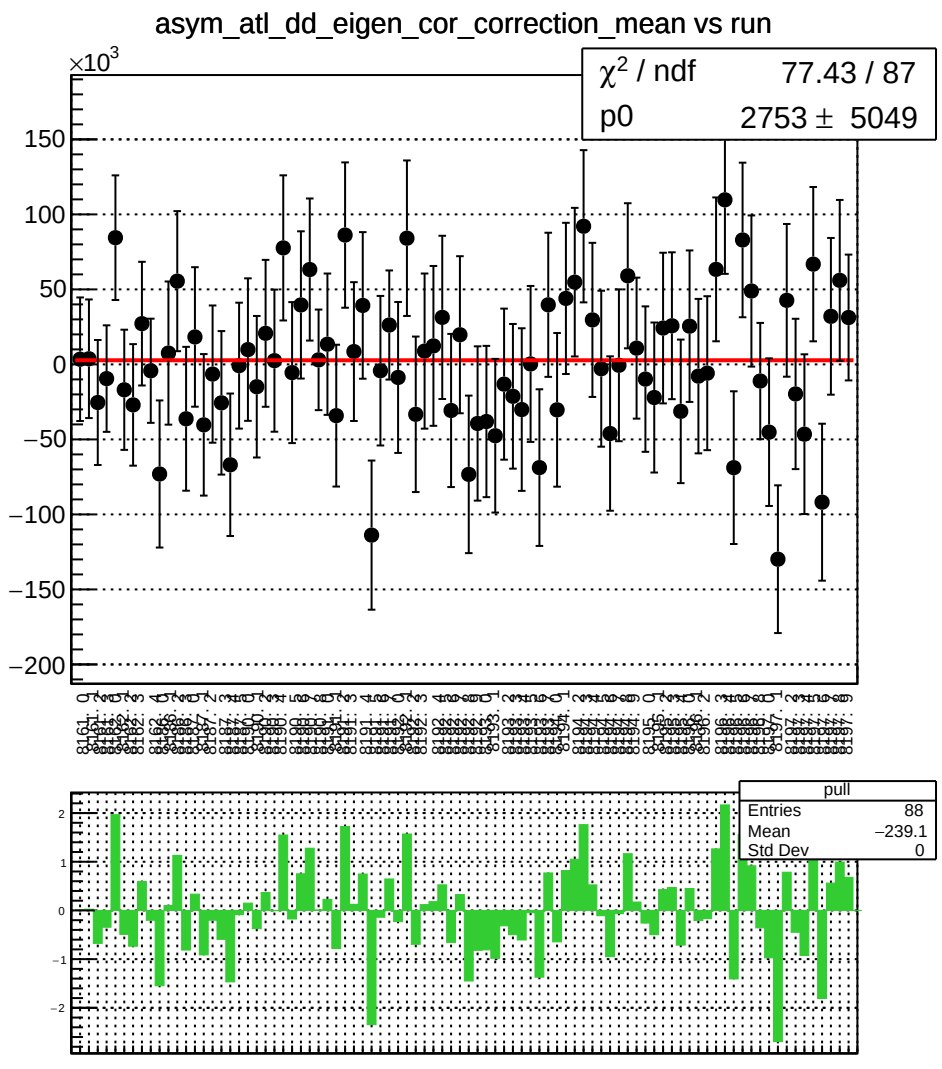

pull1D
Entries 88
Mean −0.00393
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

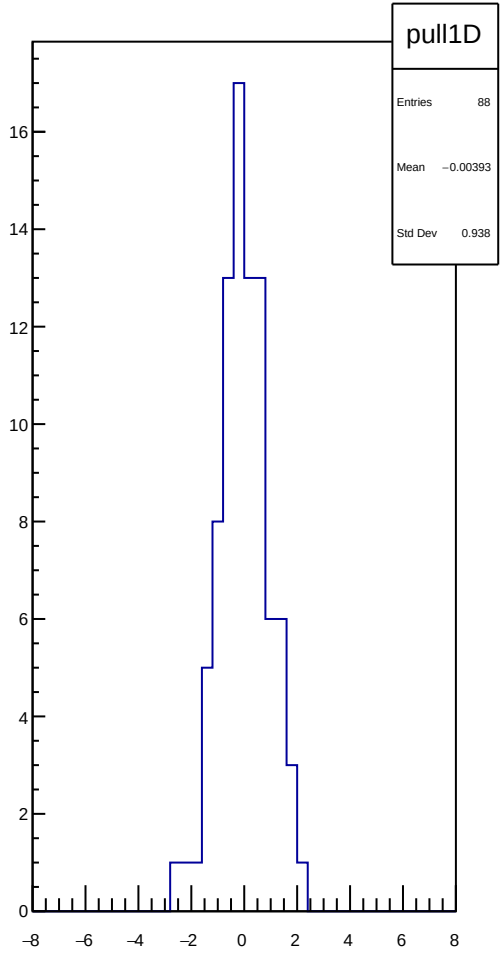

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 9873 / 87
p0 4595 ± 3.57
5200
5000
4800
4600
4400
4200
4000
3800
3600

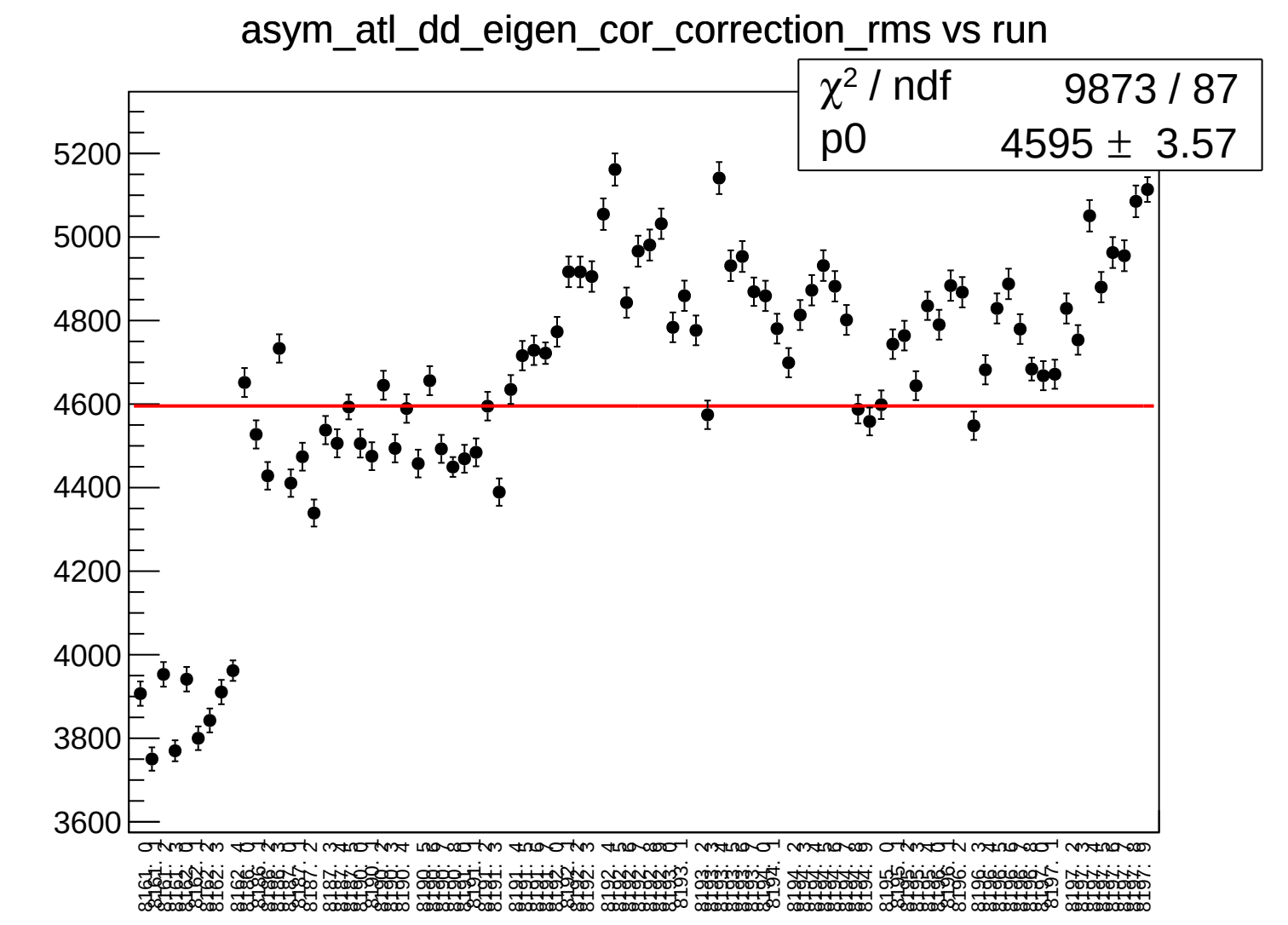

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 81.73 / 87
p0 2321 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1000
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

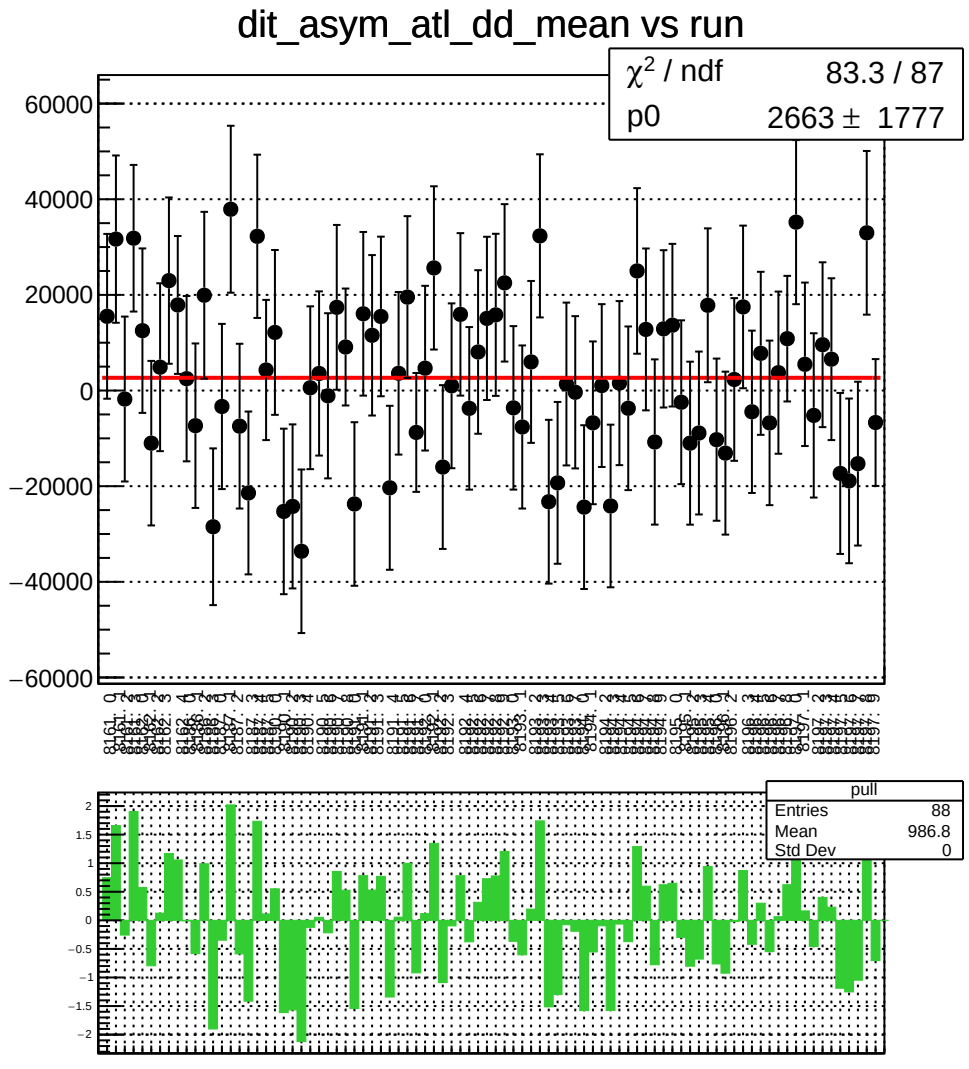

pull1D
Entries 88
Mean −0.002456
Std Dev 0.9637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

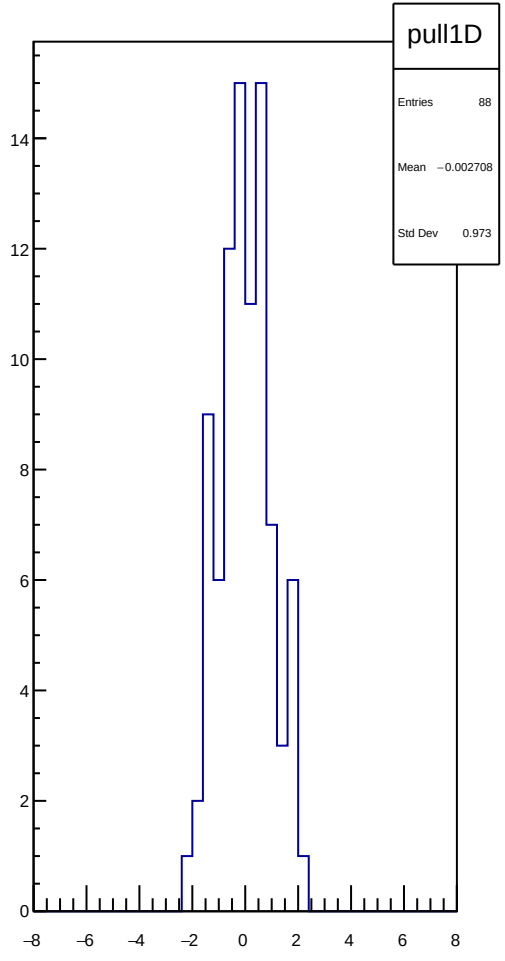

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 145.1 / 87
p0 1617 ± 1.252
1680
1660
1640
1620
1600
1580
1560

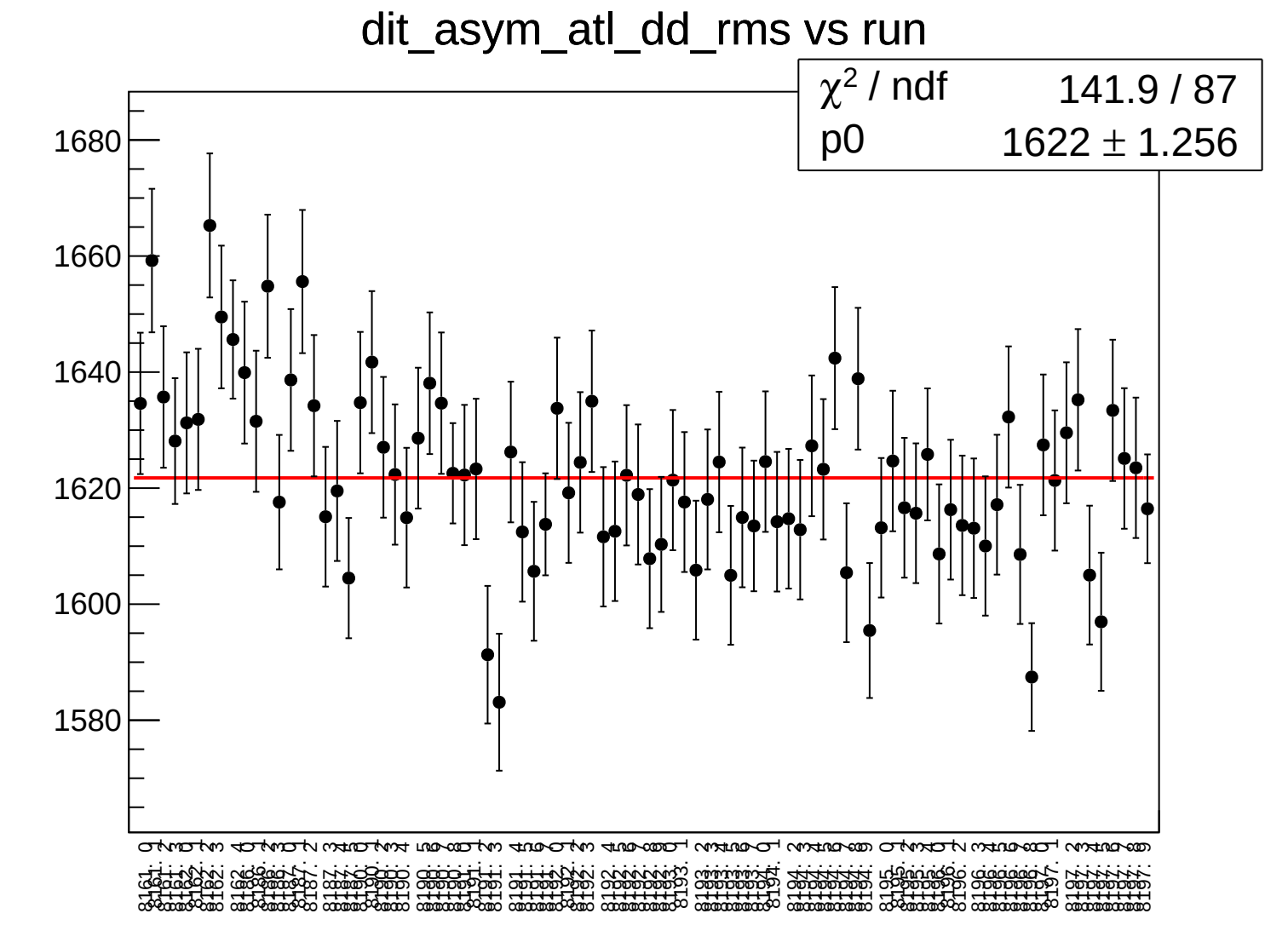

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.43 / 87
p0 2753 ± 5049
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −239.1
Std Dev 0
2
1
0
−1
−2

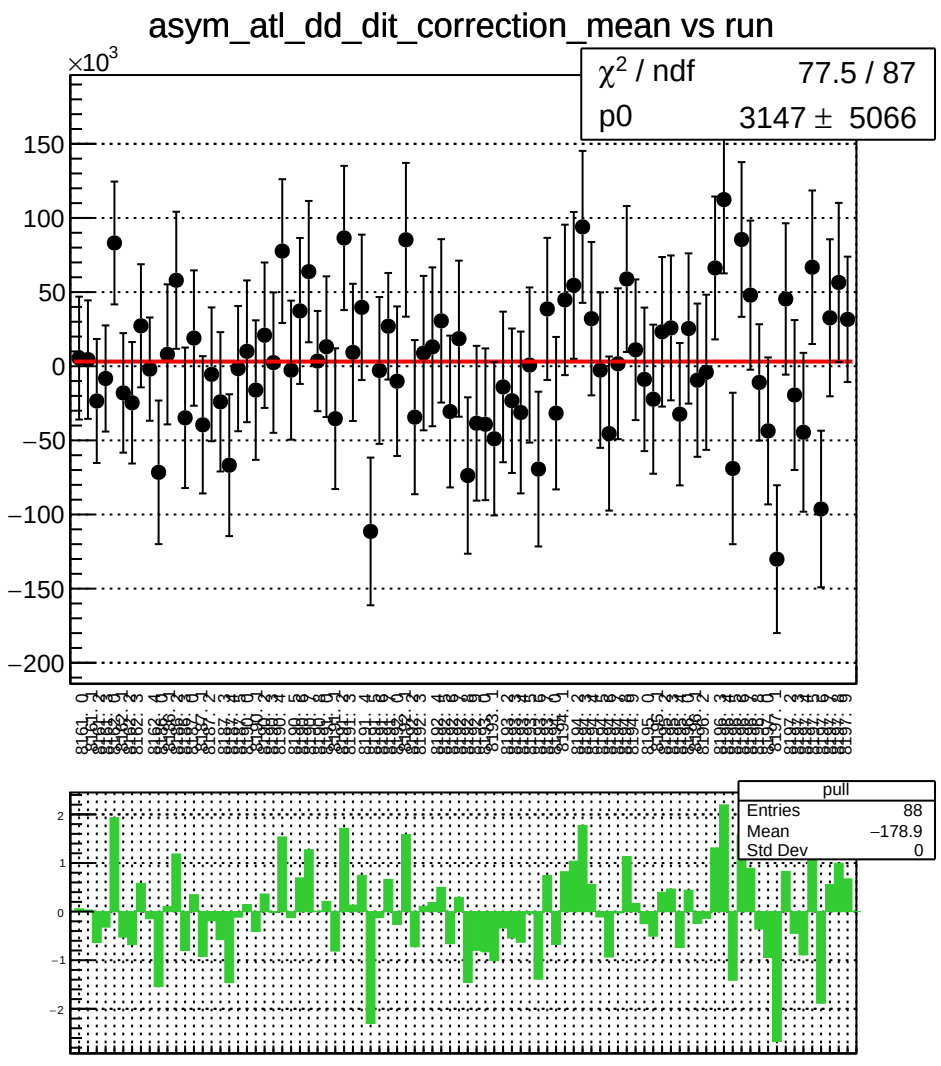

pull1D
Entries 88
Mean −0.00393
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

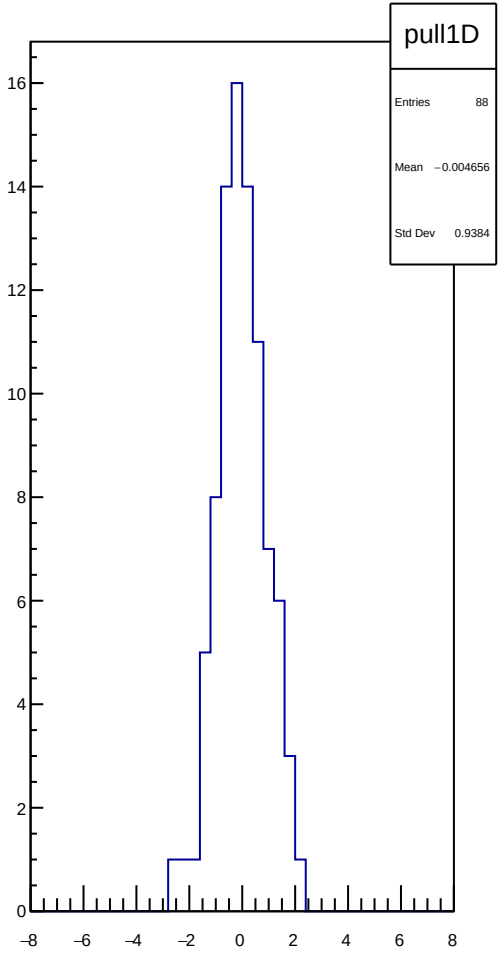

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 9873 / 87
p0 4595 ± 3.57
5200
5000
4800
4600
4400
4200
4000
3800
3600

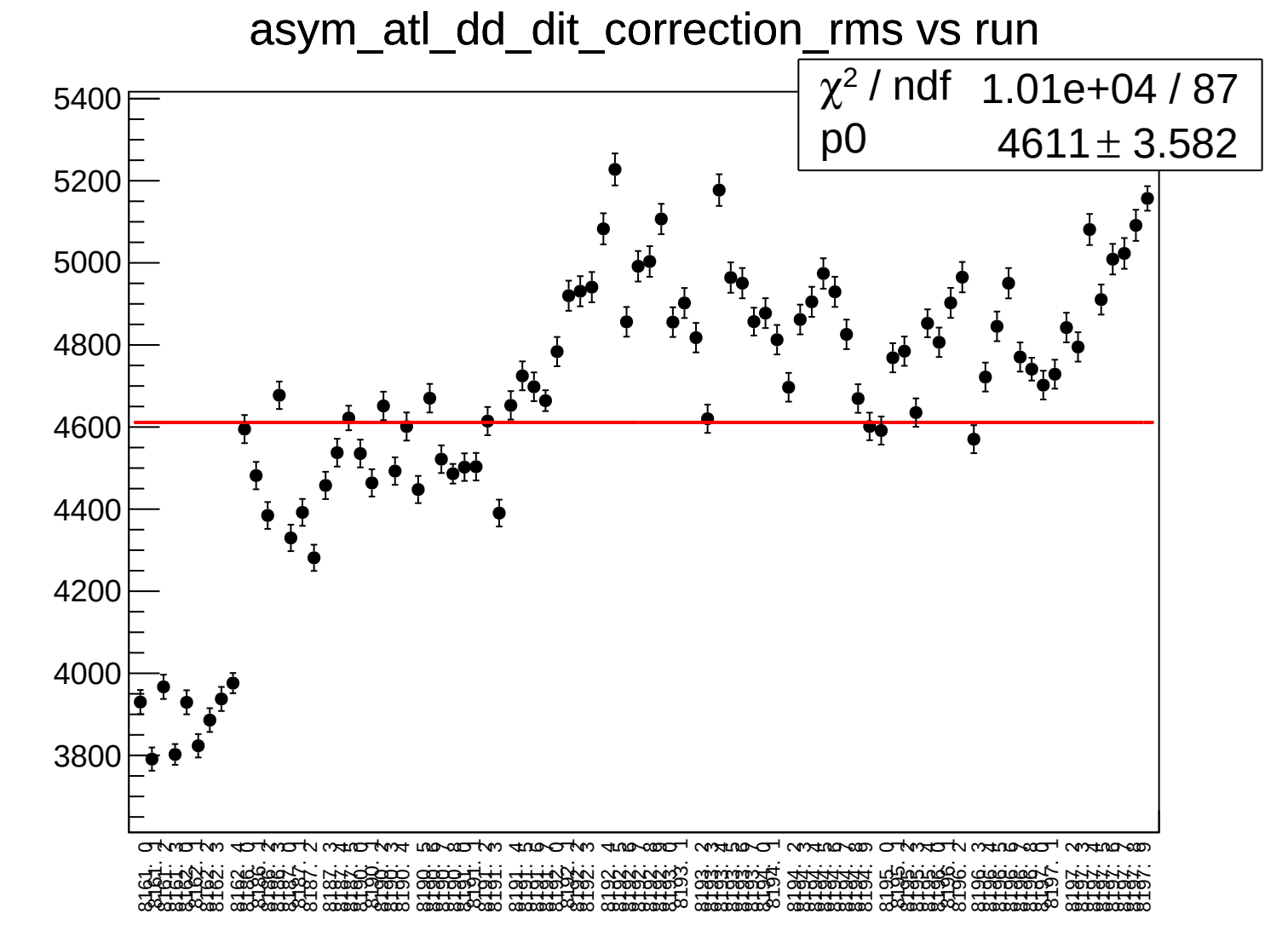

dit_asym_atl_dd_mean vs run
χ² / ndf 83.3 / 87
p0 2663 ± 1777
pull
Entries 88
Mean 986.8
Std Dev 0

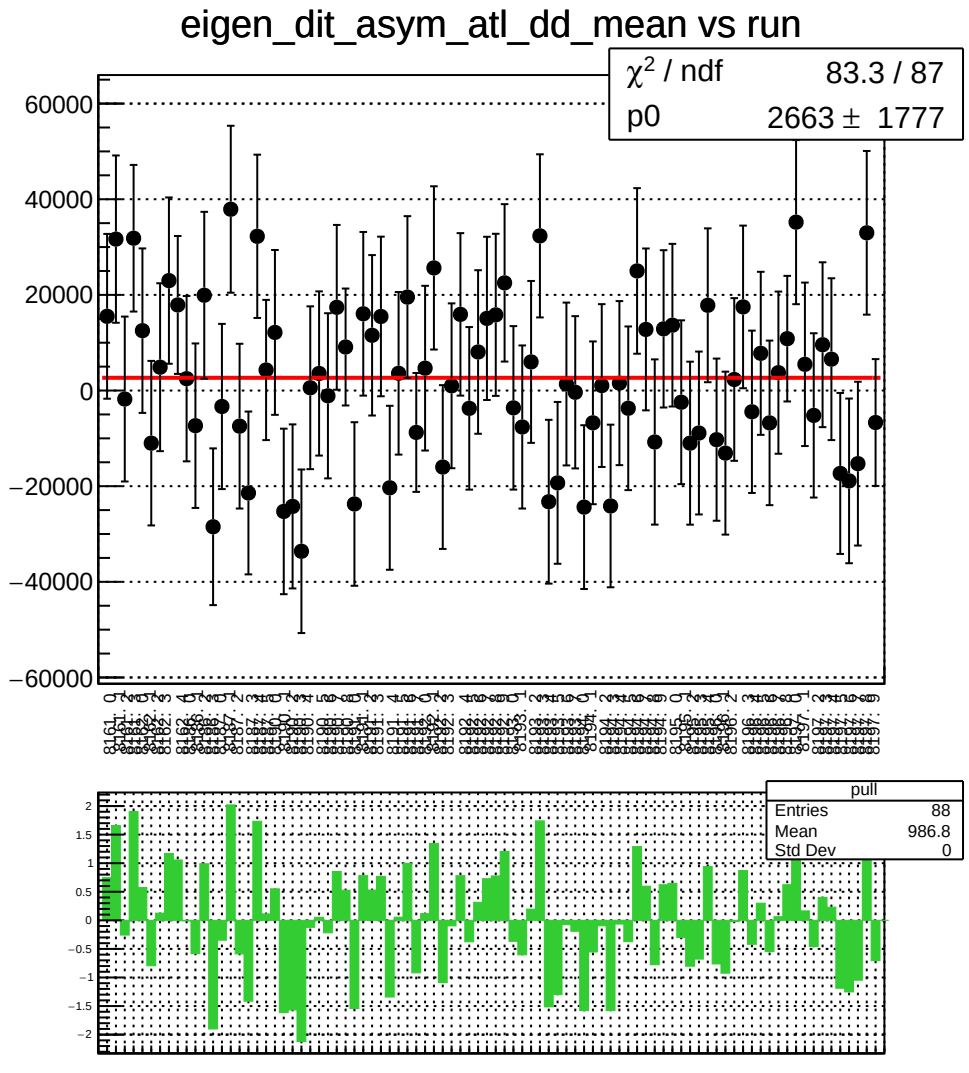

pull1D
Entries 88
Mean −0.002708
Std Dev 0.973

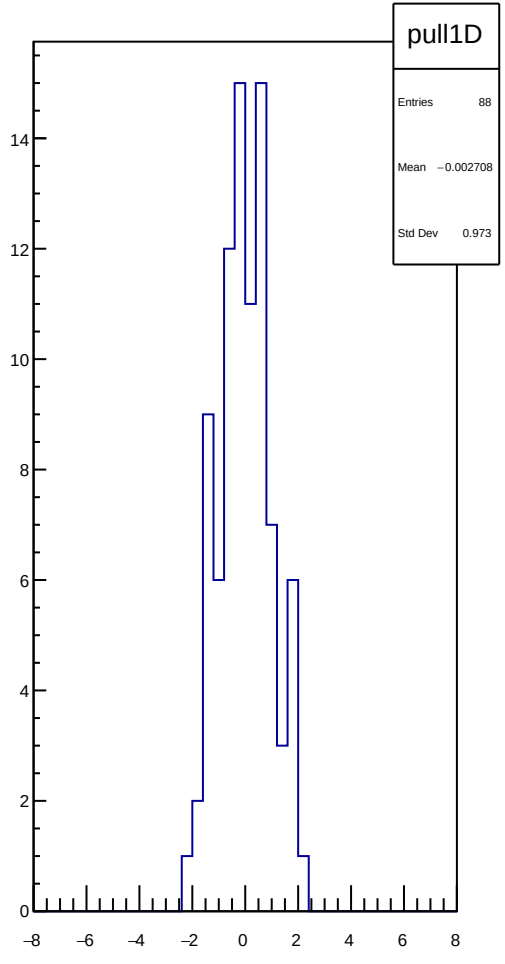

dit_asym_atl_dd_rms vs run
χ^2 / ndf 141.9 / 87
p0 1622 ± 1.256
1680
1660
1640
1620
1600
1580

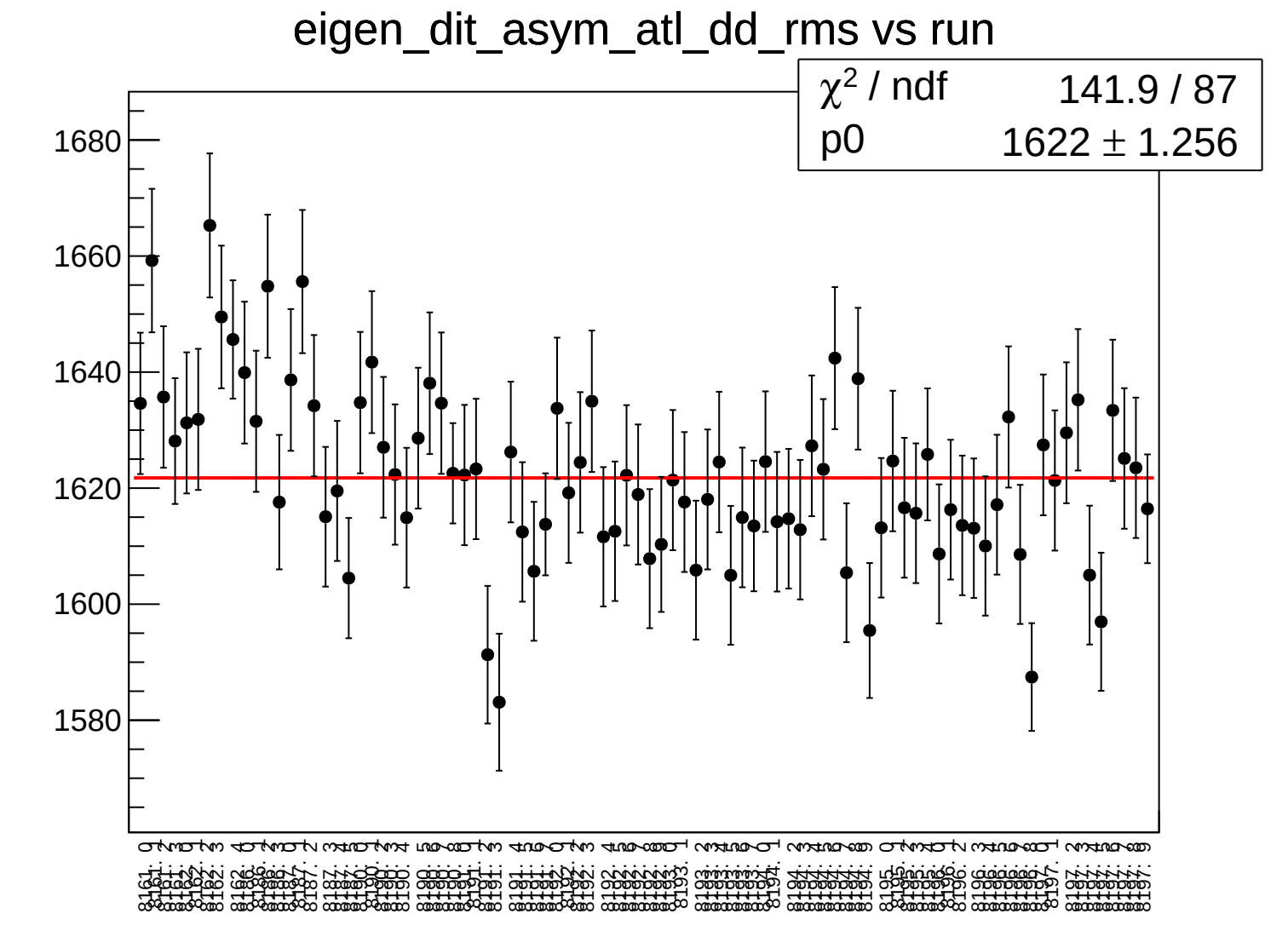

asym_atl_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 77.5 / 87
p0 3147 ± 5066
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −178.9
Std Dev 0
2
1
0
−1
−2

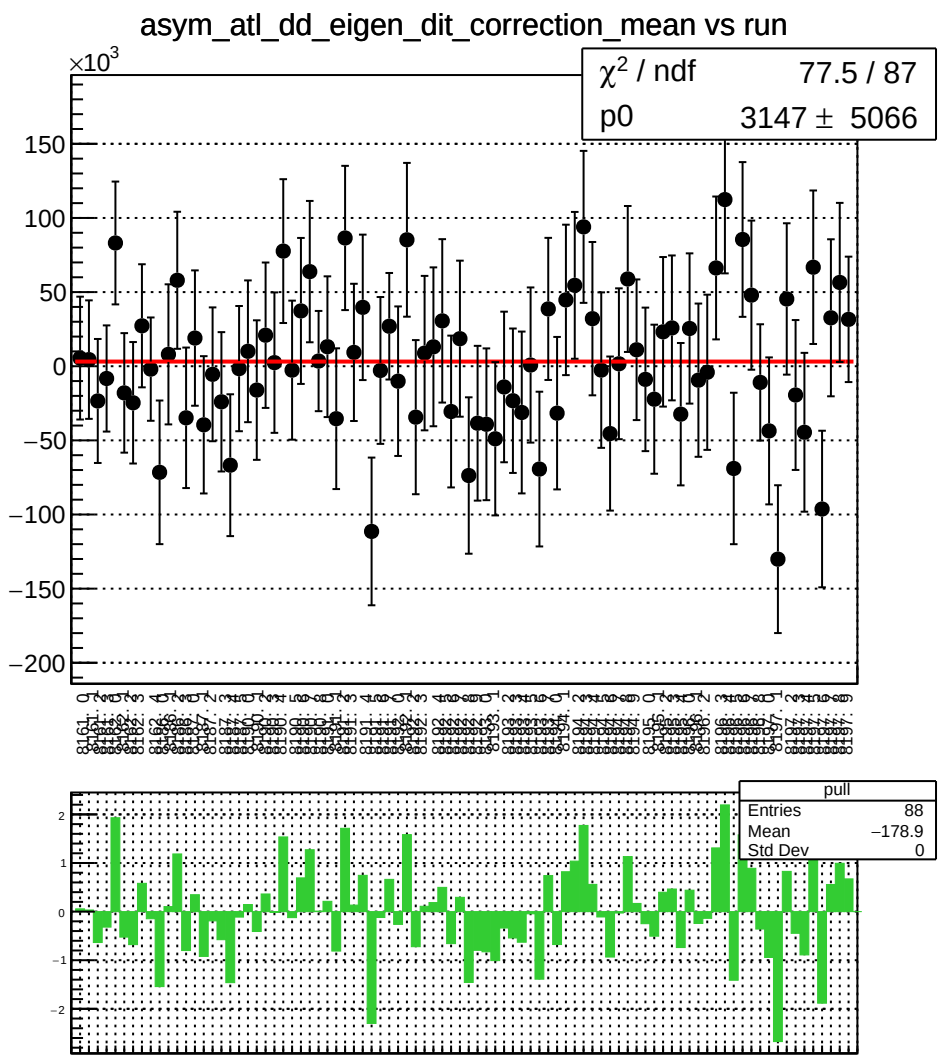

pull1D
Entries 88
Mean −0.004656
Std Dev 0.9384
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

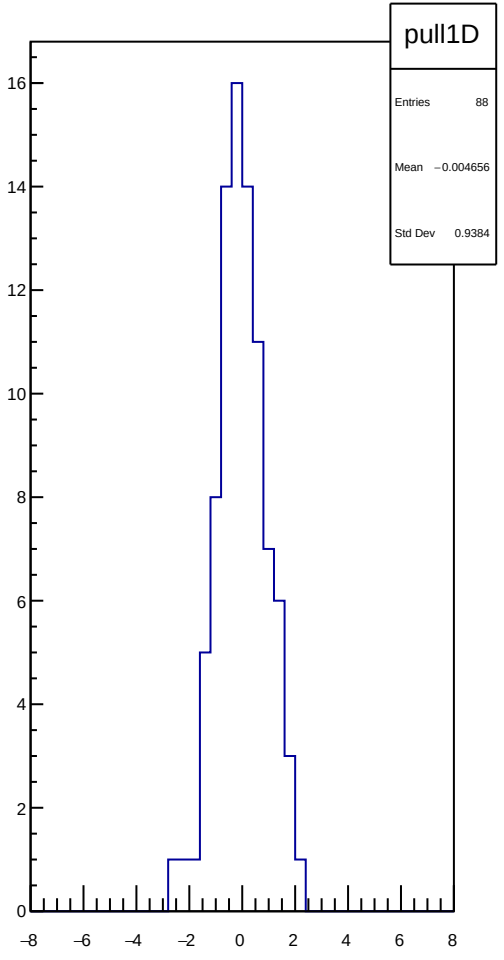

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1.01e+04 / 87
p0 4611 ± 3.582
5400
5200
5000
4800
4600
4400
4200
4000
3800

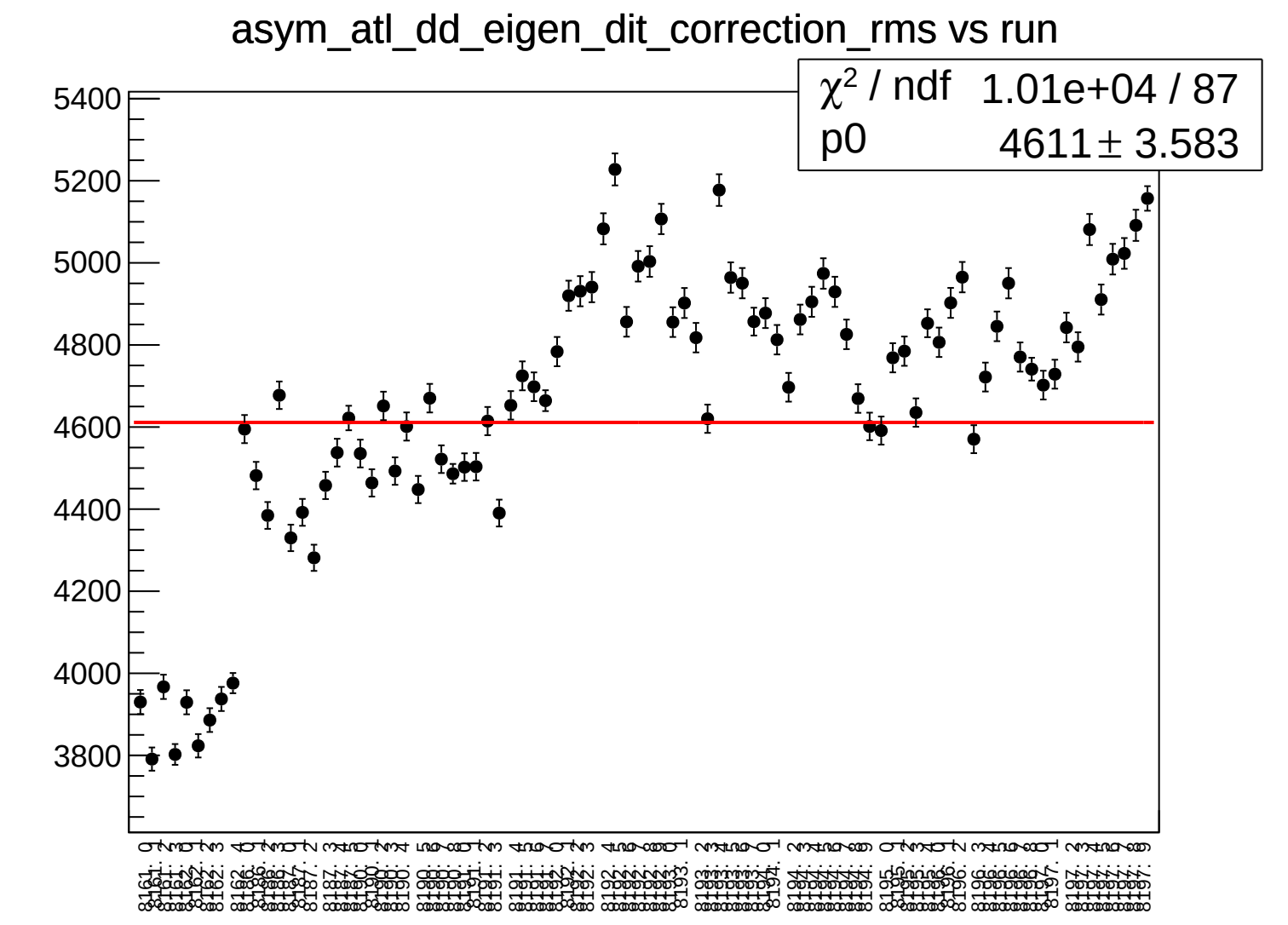

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 83.3 / 87
p0 2663 ± 1777
pull
Entries 88
Mean 986.8
Std Dev 0

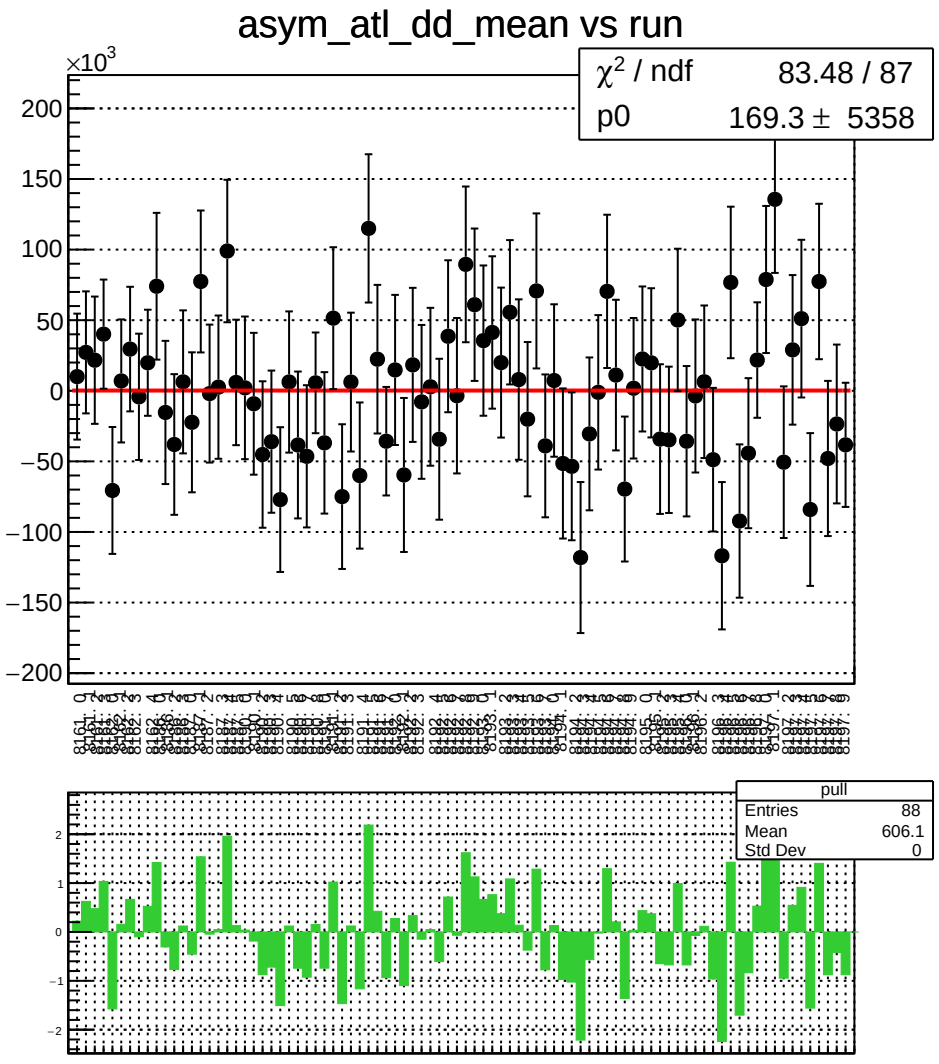

pull1D
Entries 88
Mean −0.002708
Std Dev 0.973

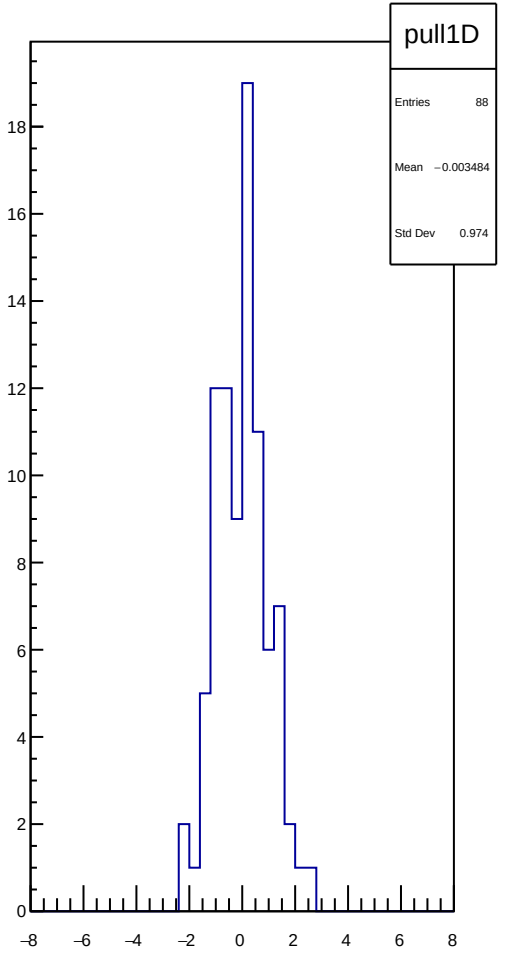

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 141.9 / 87
p0 1622 ± 1.256
1680
1660
1640
1620
1600
1580

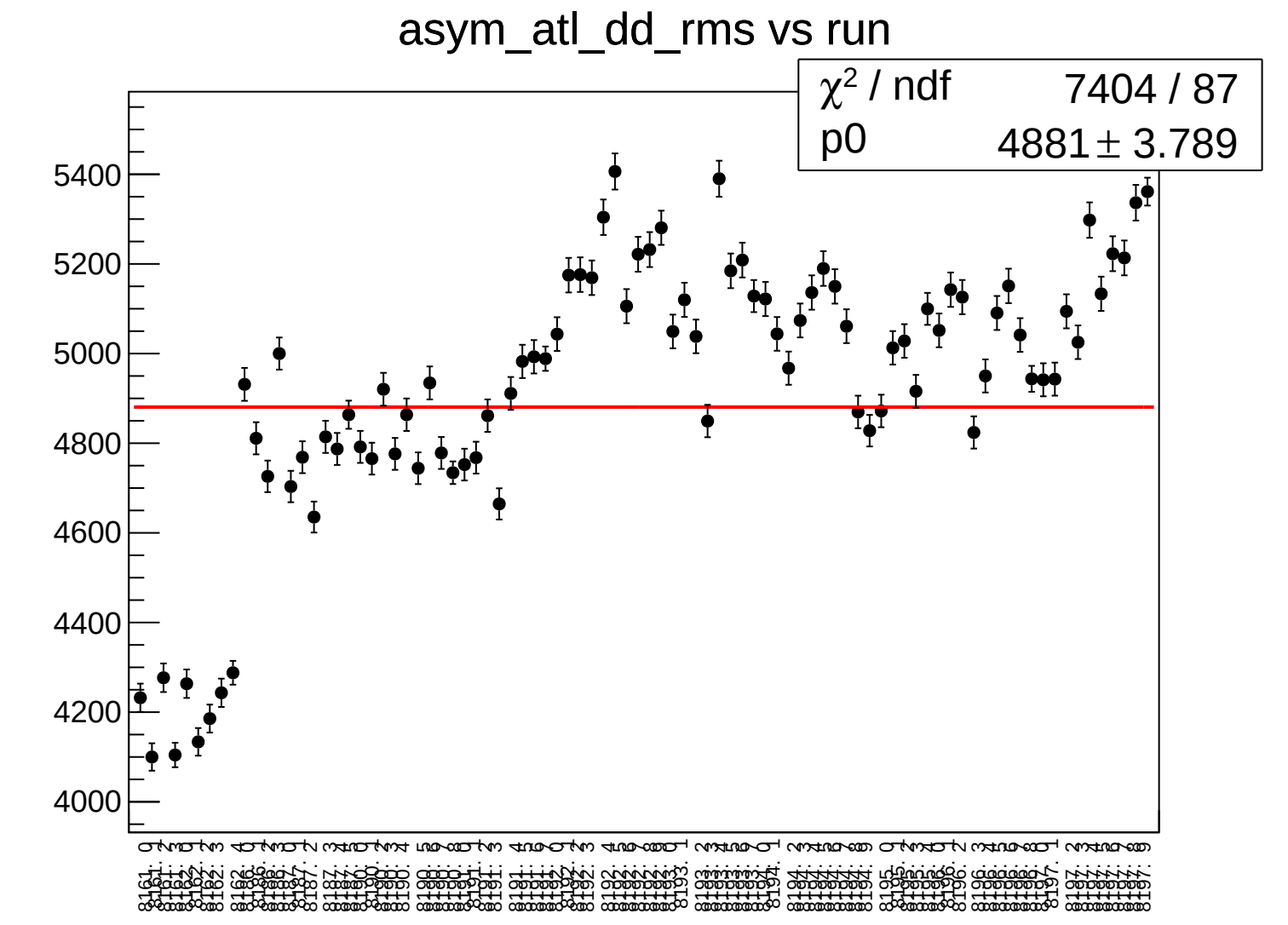

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.5 / 87
p0 3147 ± 5066
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −178.9
Std Dev 0
2
1
0
−1
−2

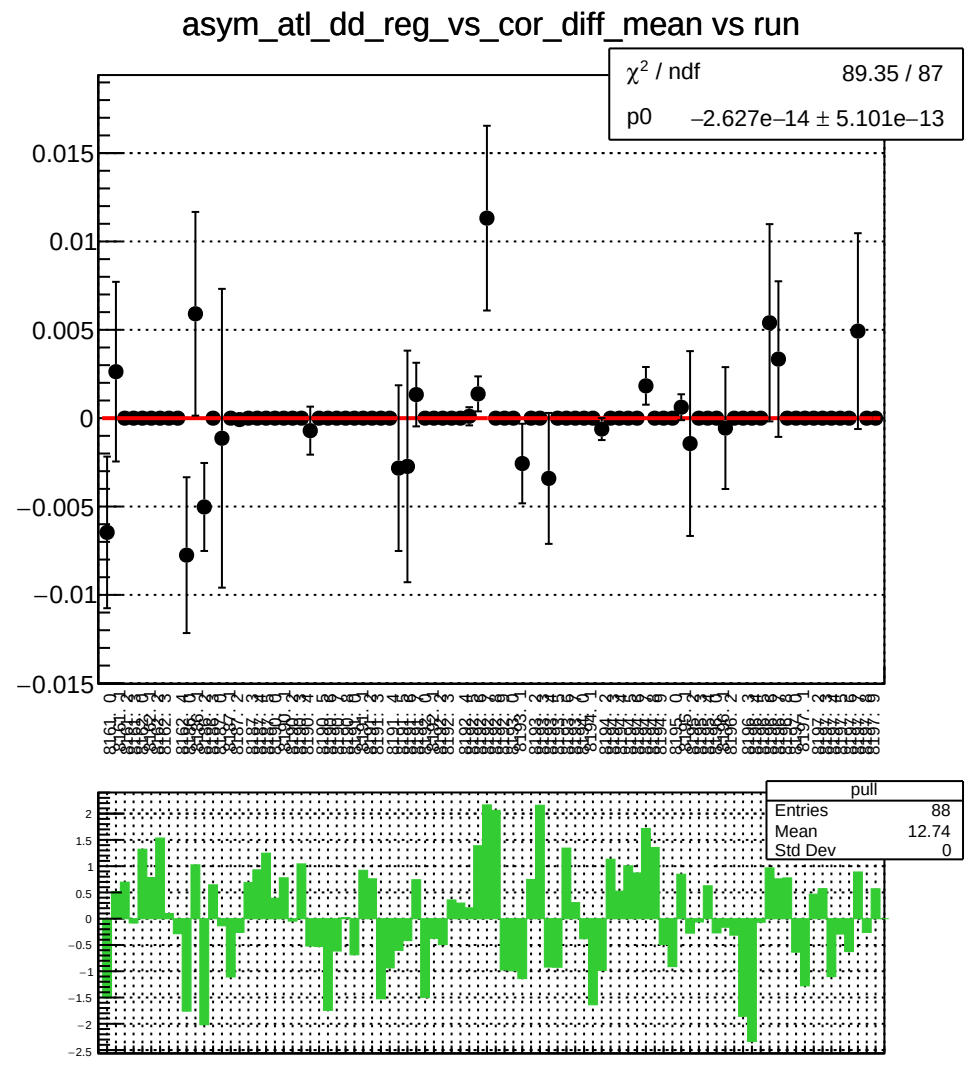

pull1D
Entries 88
Mean −0.004656
Std Dev 0.9384
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

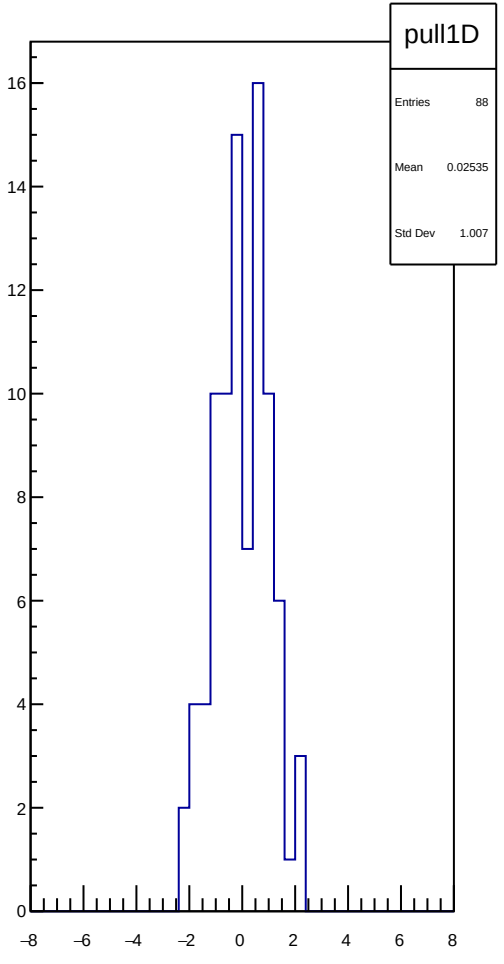

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.01e+04 / 87
p0 4611 ± 3.583
5400
5200
5000
4800
4600
4400
4200
4000
3800

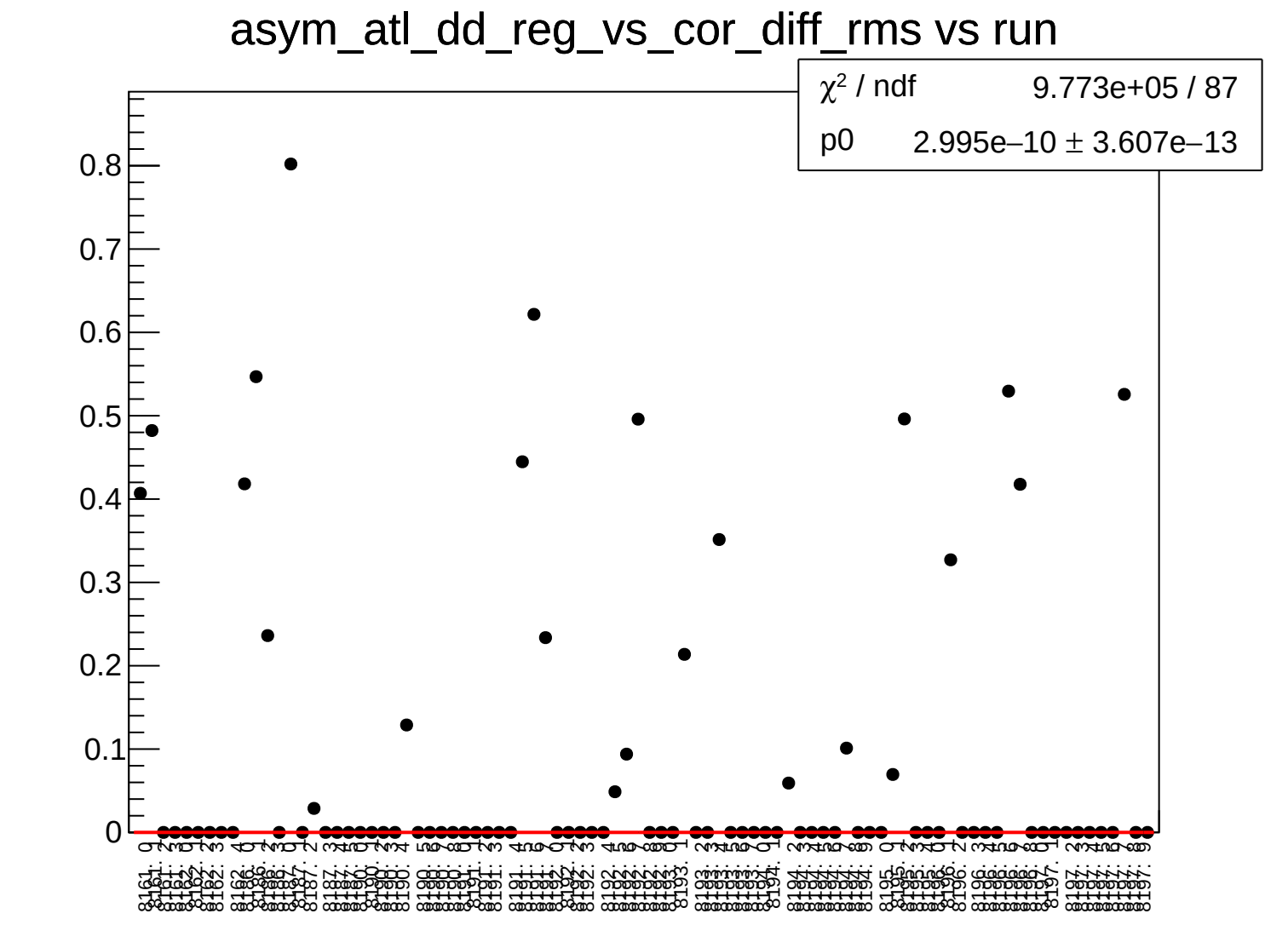

asym_atl_dd_mean vs run
×10^3
χ² / ndf 83.48 / 87
p0 169.3 ± 5358
pull
Entries 88
Mean 606.1
Std Dev 0

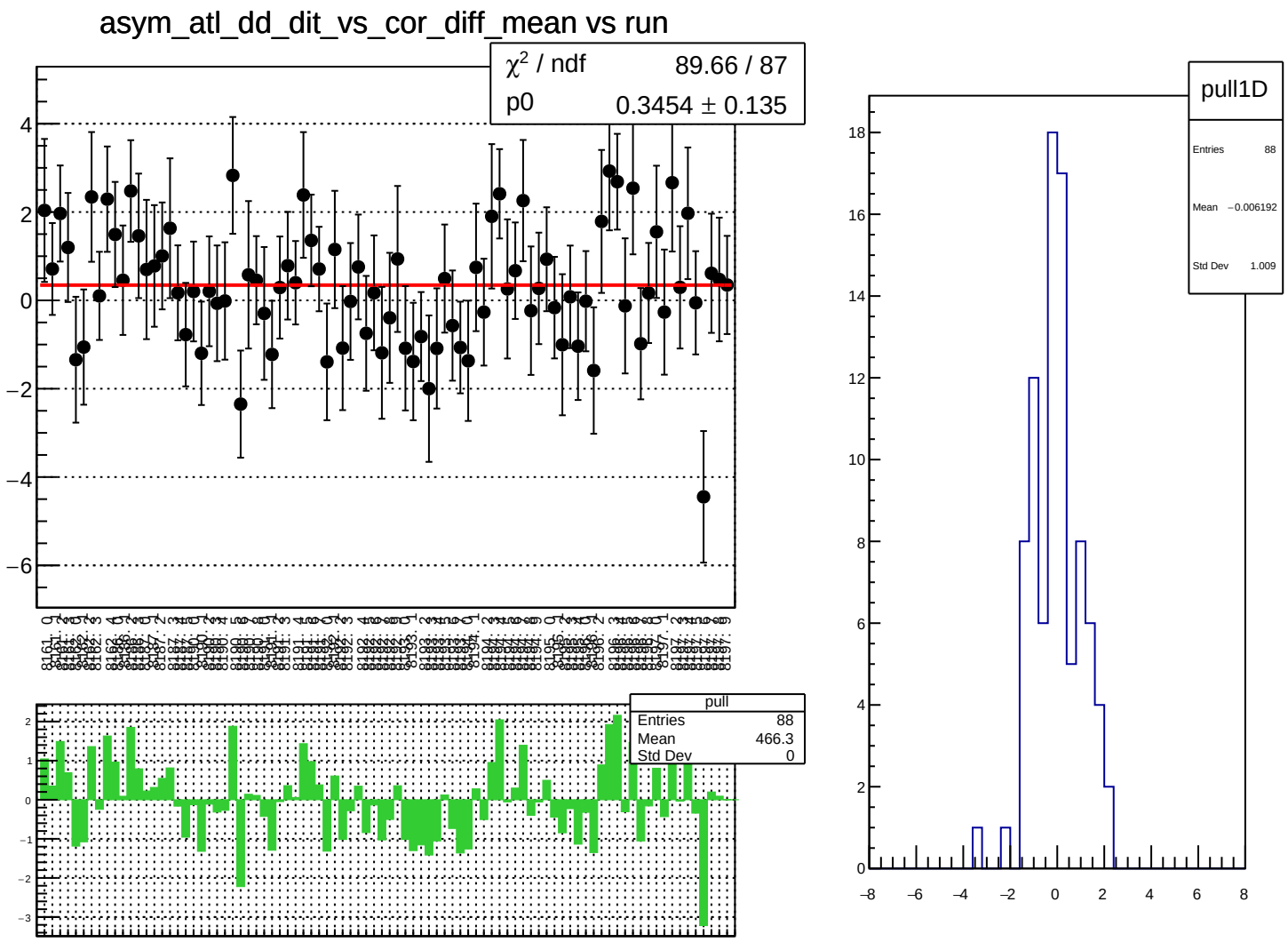

pull1D
Entries 88
Mean −0.003484
Std Dev 0.974

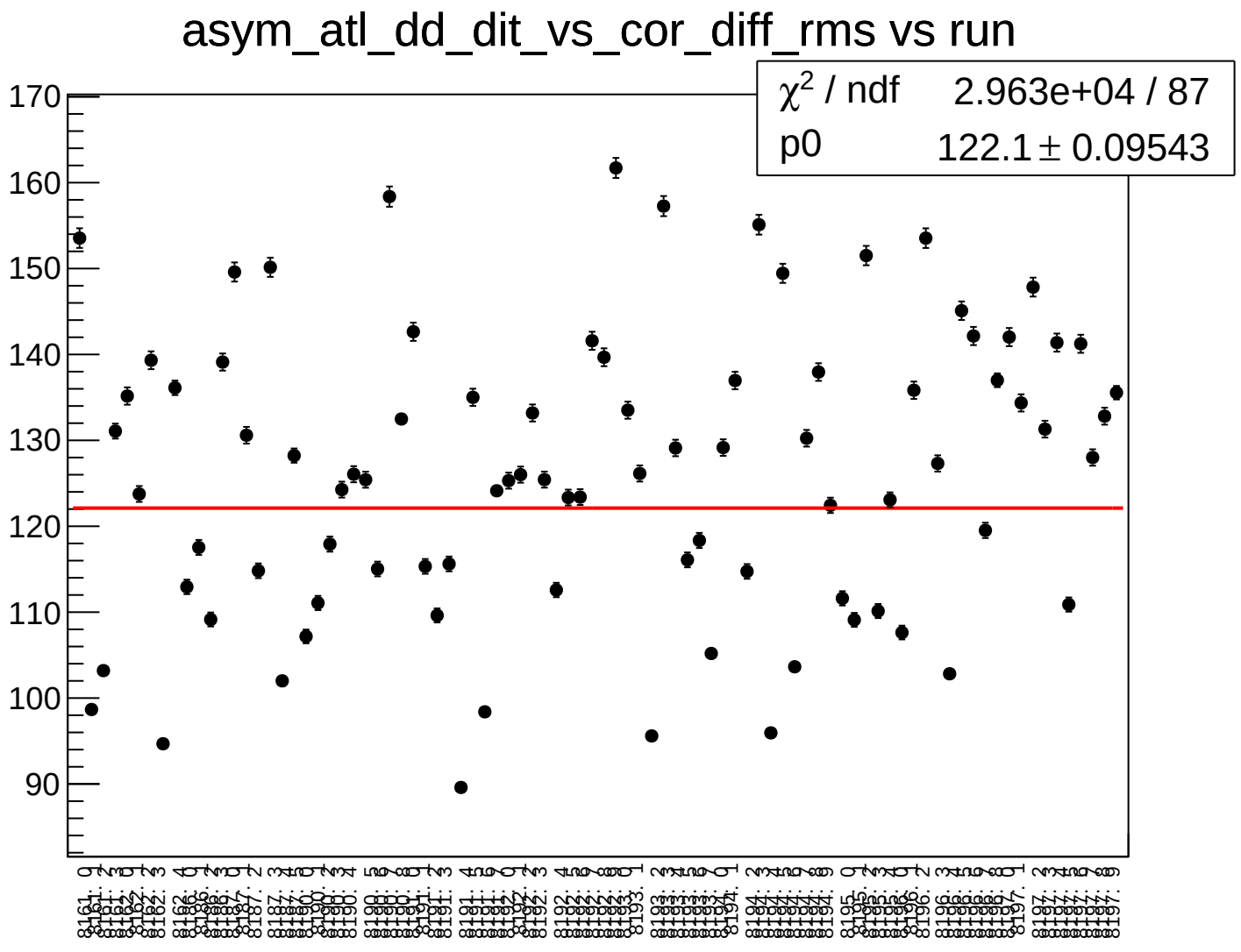

asym_atl_dd_rms vs run
χ² / ndf 7404 / 87
p0 4881 ± 3.789
5400
5200
5000
4800
4600
4400
4200
4000

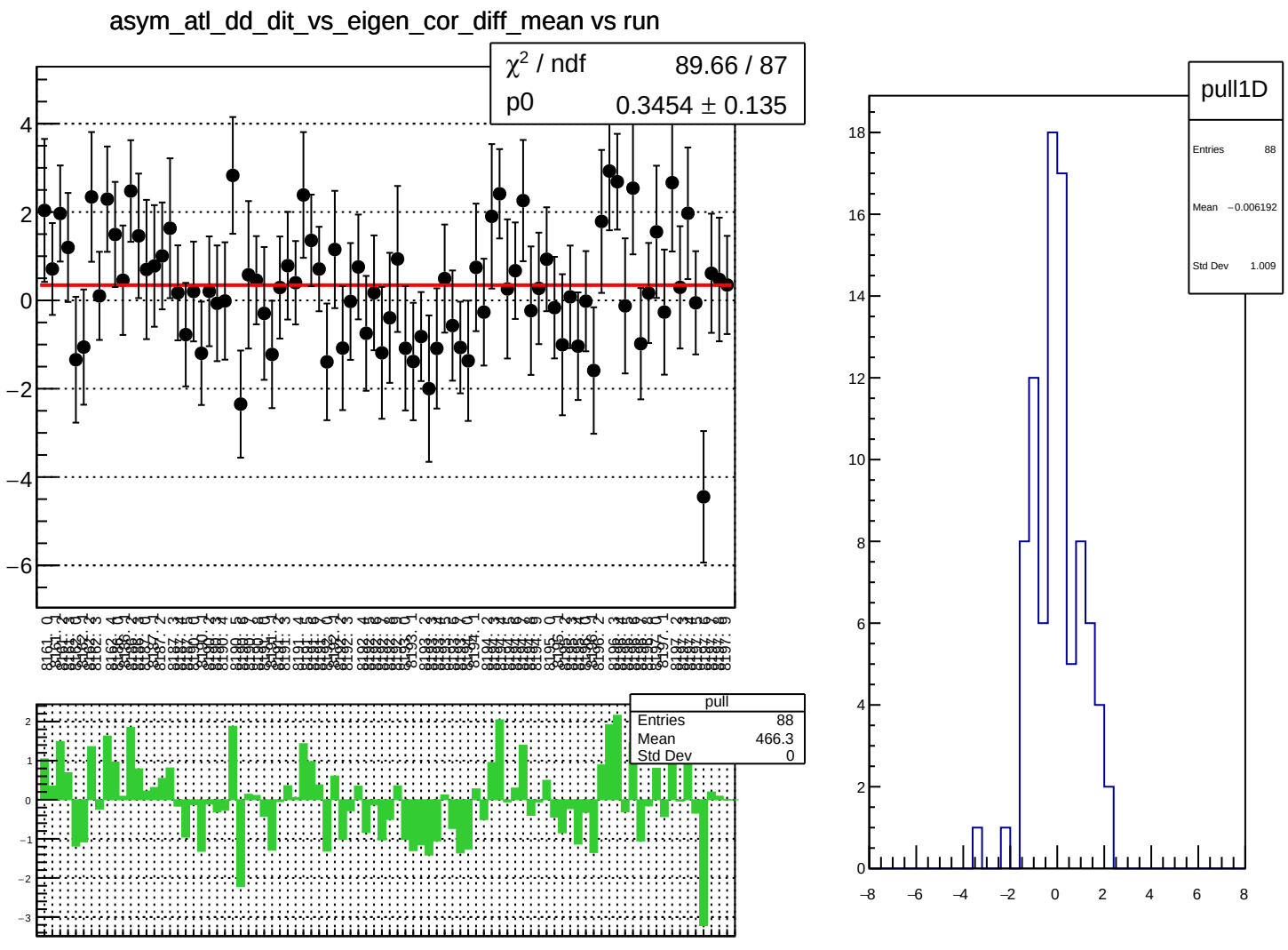

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.35 / 87
p0 −2.627e−14 ± 5.101e−13
pull
Entries 88
Mean 12.74
Std Dev 0

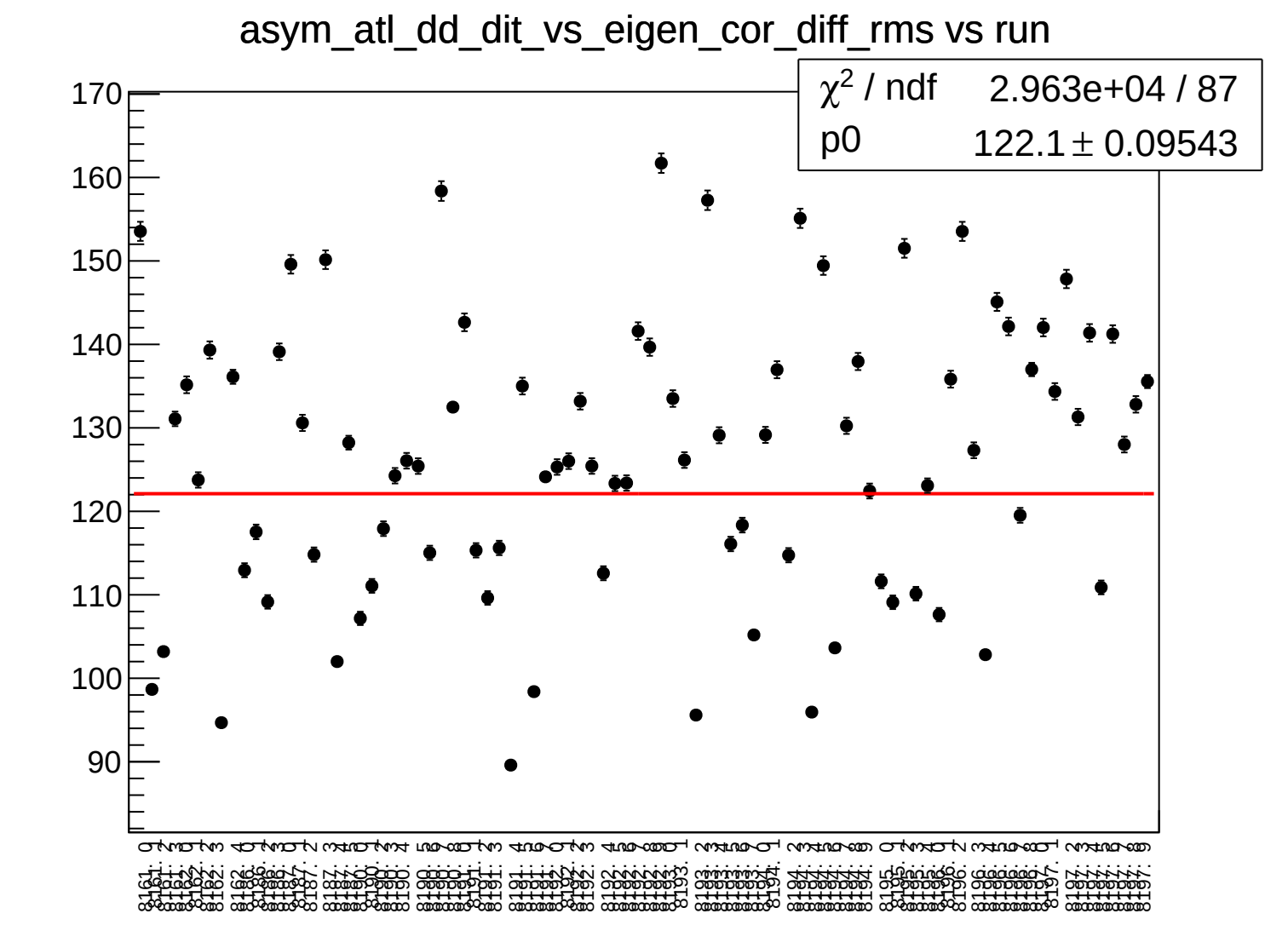

pull1D
Entries 88
Mean 0.02535
Std Dev 1.007

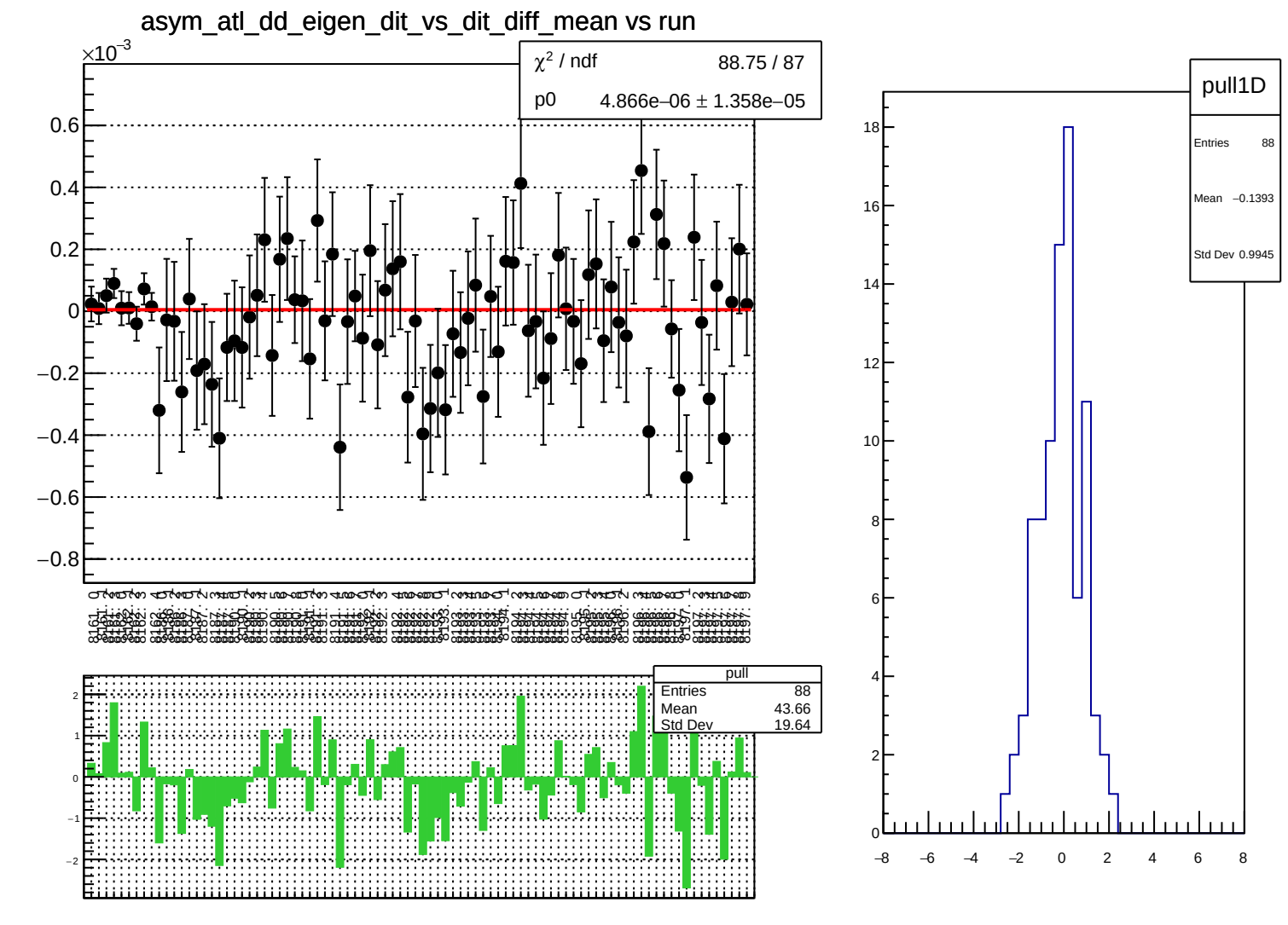

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.773e+05 / 87
p0 2.995e−10 ± 3.607e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

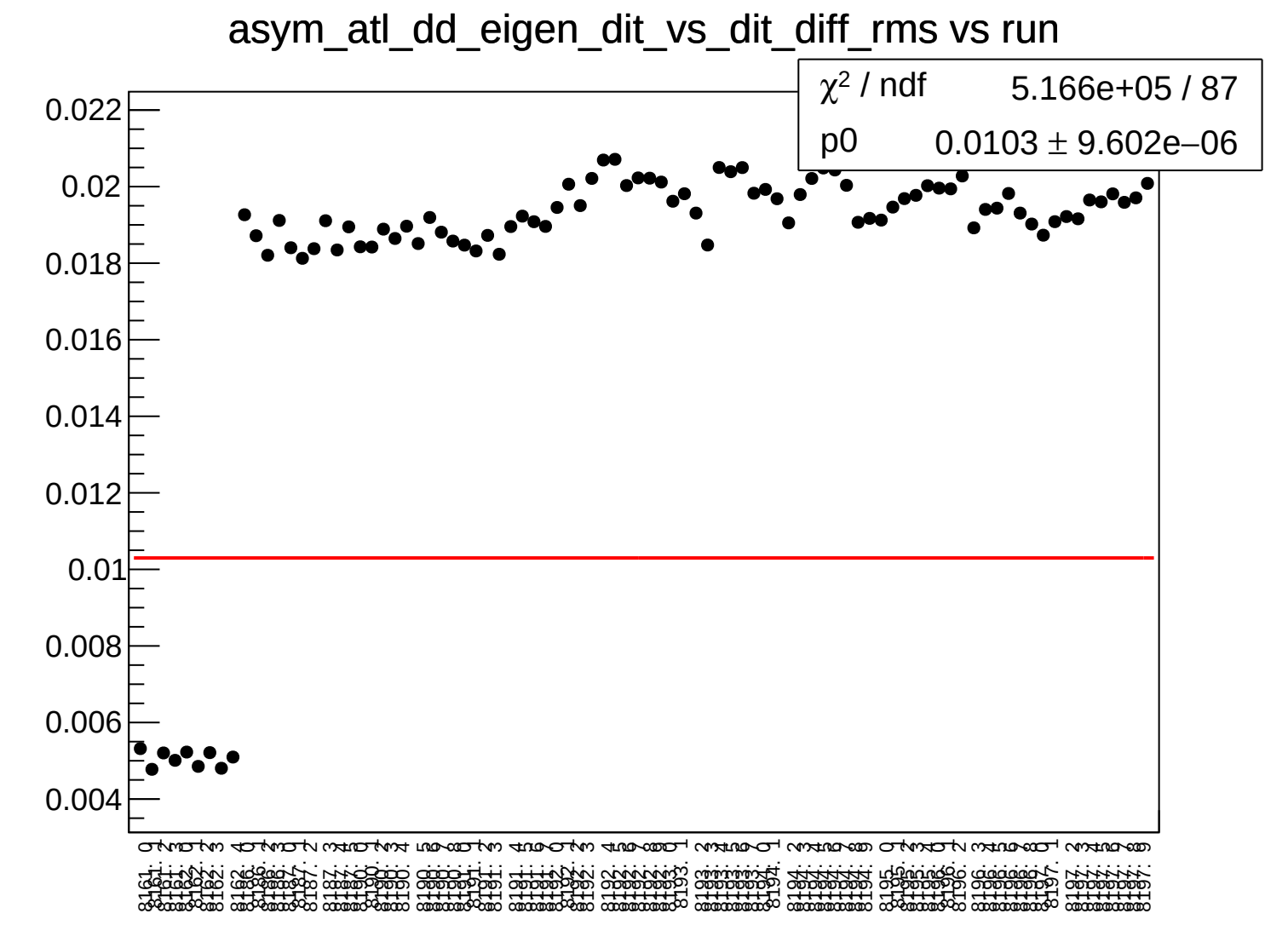

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.66 / 87
p0 0.3454 ± 0.135
pull
Entries 88
Mean 466.3
Std Dev 0
pull1D
Entries 88
Mean −0.006192
Std Dev 1.009

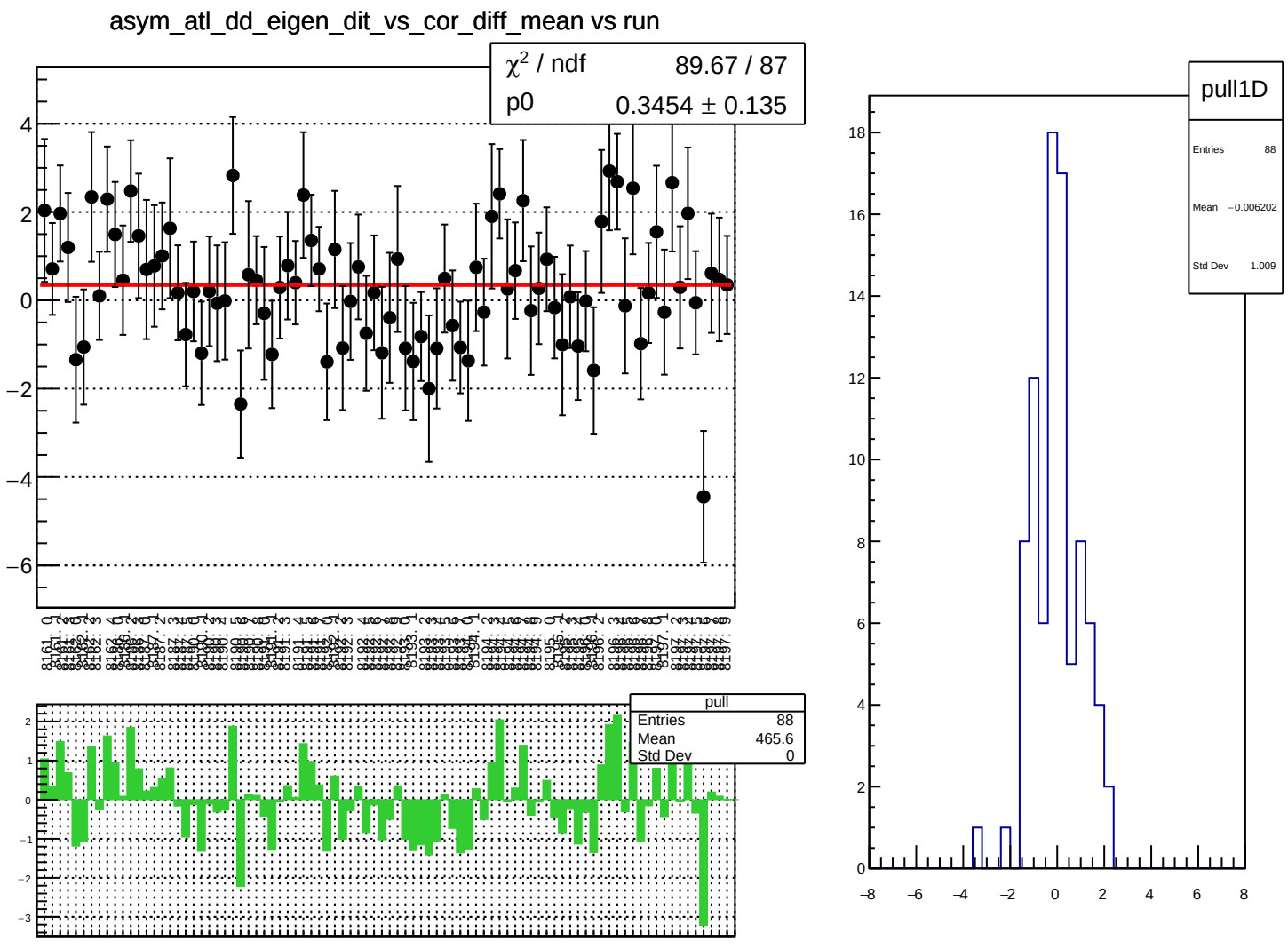

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.963e+04 / 87
p0 122.1 ± 0.09543
170
160
150
140
130
120
110
100
90

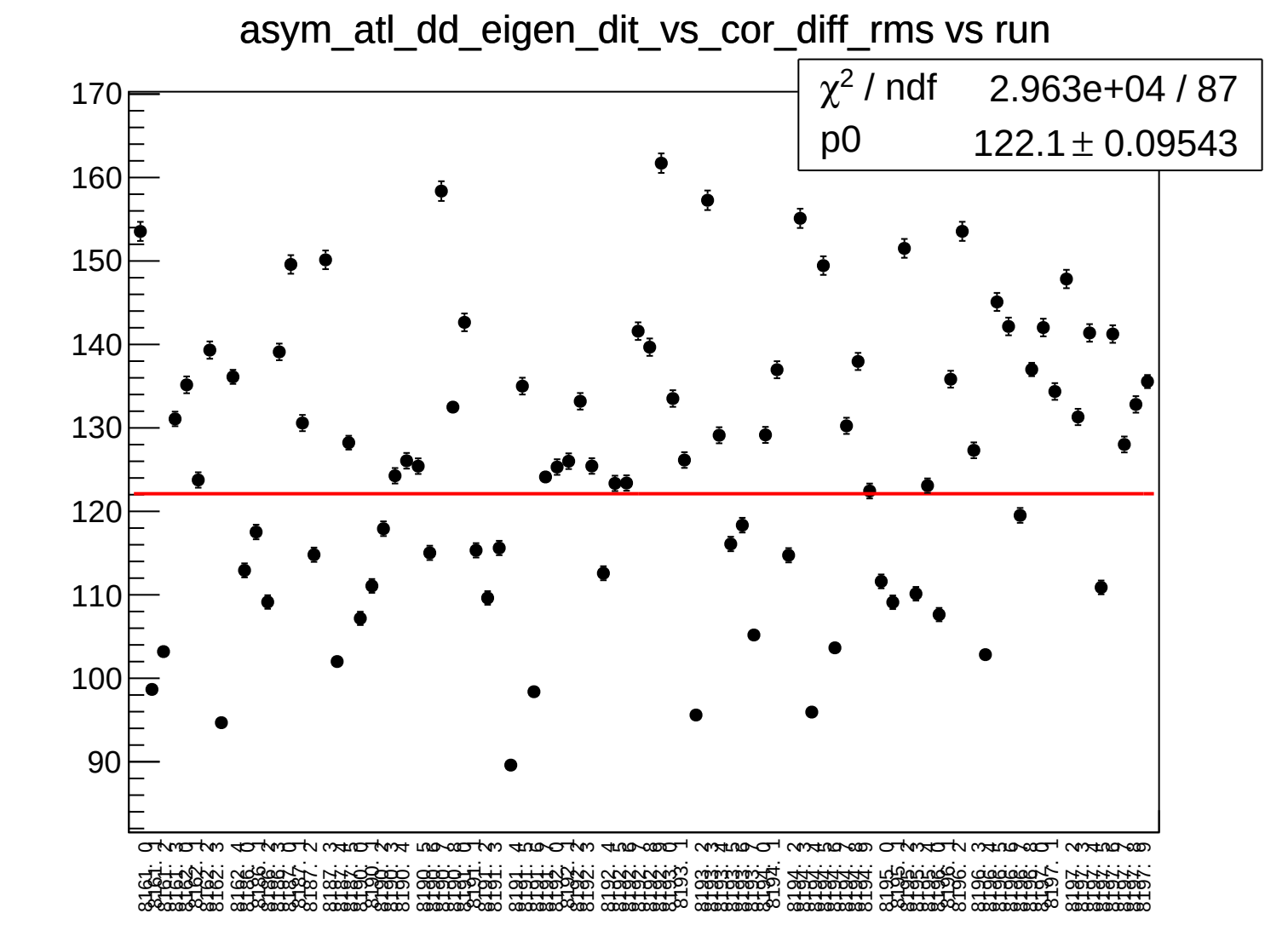

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.66 / 87
p0 0.3454 ± 0.135
pull
Entries 88
Mean 466.3
Std Dev 0
pull1D
Entries 88
Mean −0.006192
Std Dev 1.009

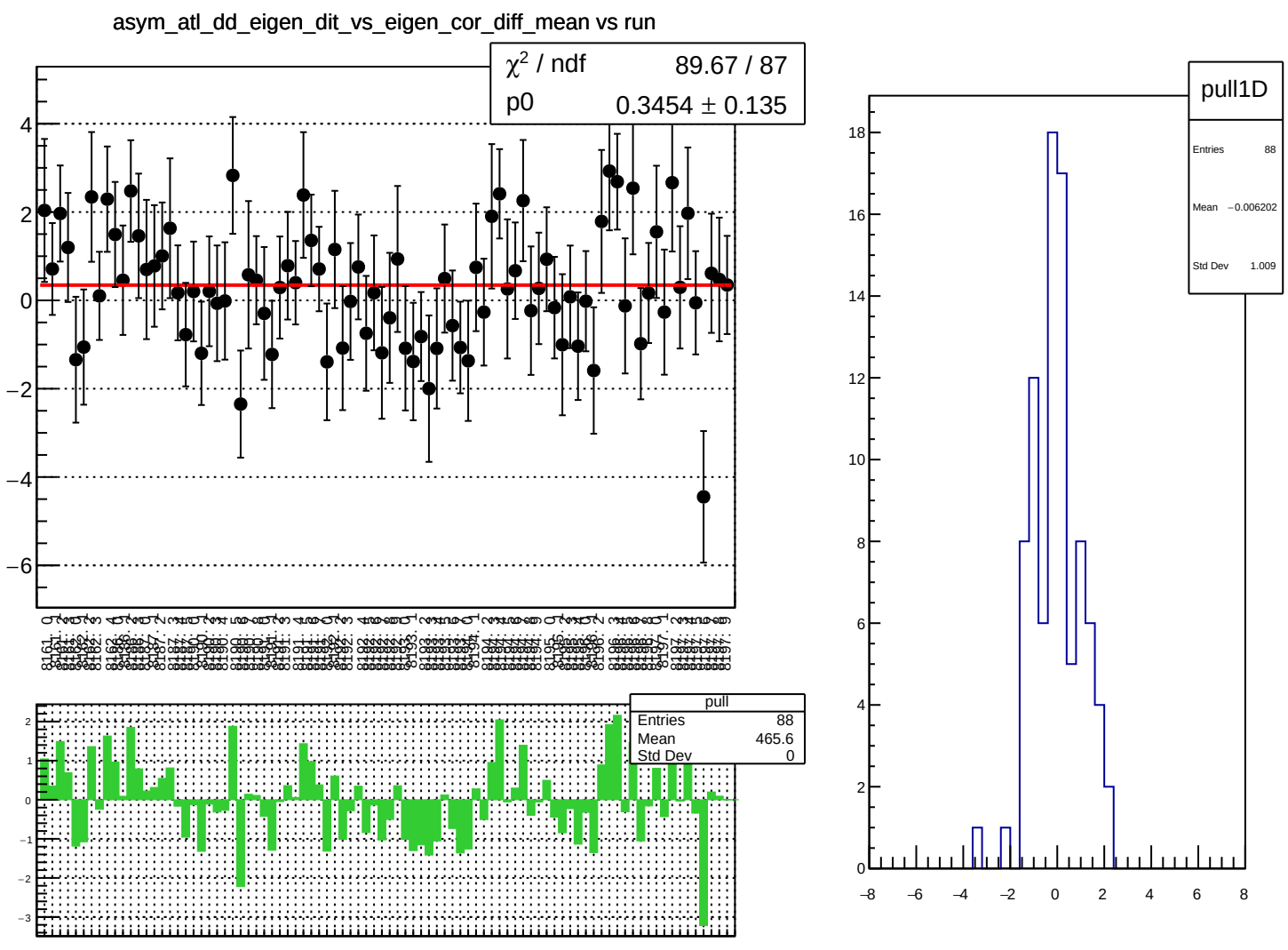

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.963e+04 / 87
p0 122.1 ± 0.09543
170
160
150
140
130
120
110
100
90

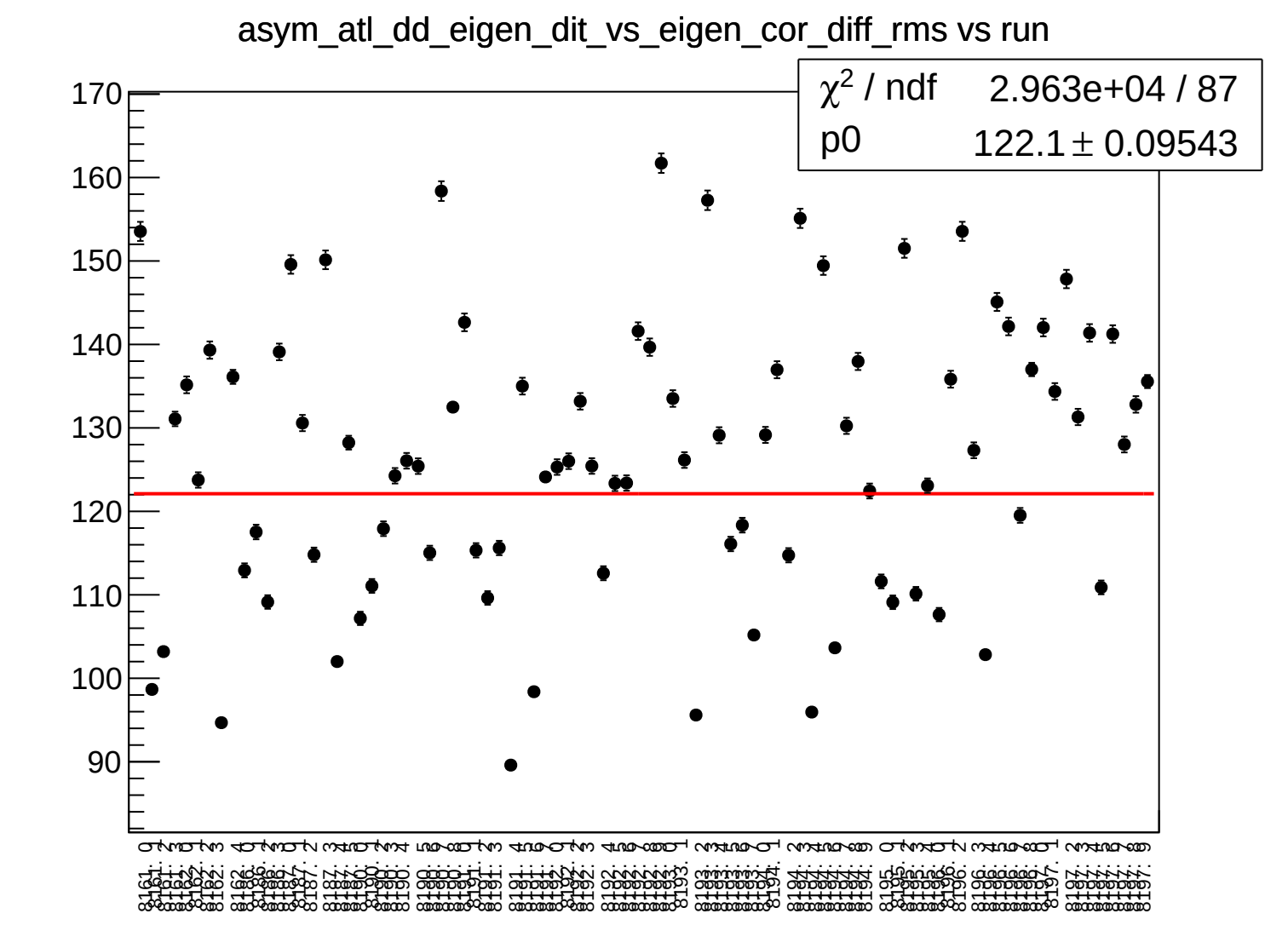

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.75 / 87
p0 4.866e−06 ± 1.358e−05
pull
Entries 88
Mean 43.66
Std Dev 19.64
pull1D
Entries 88
Mean −0.1393
Std Dev 0.9945

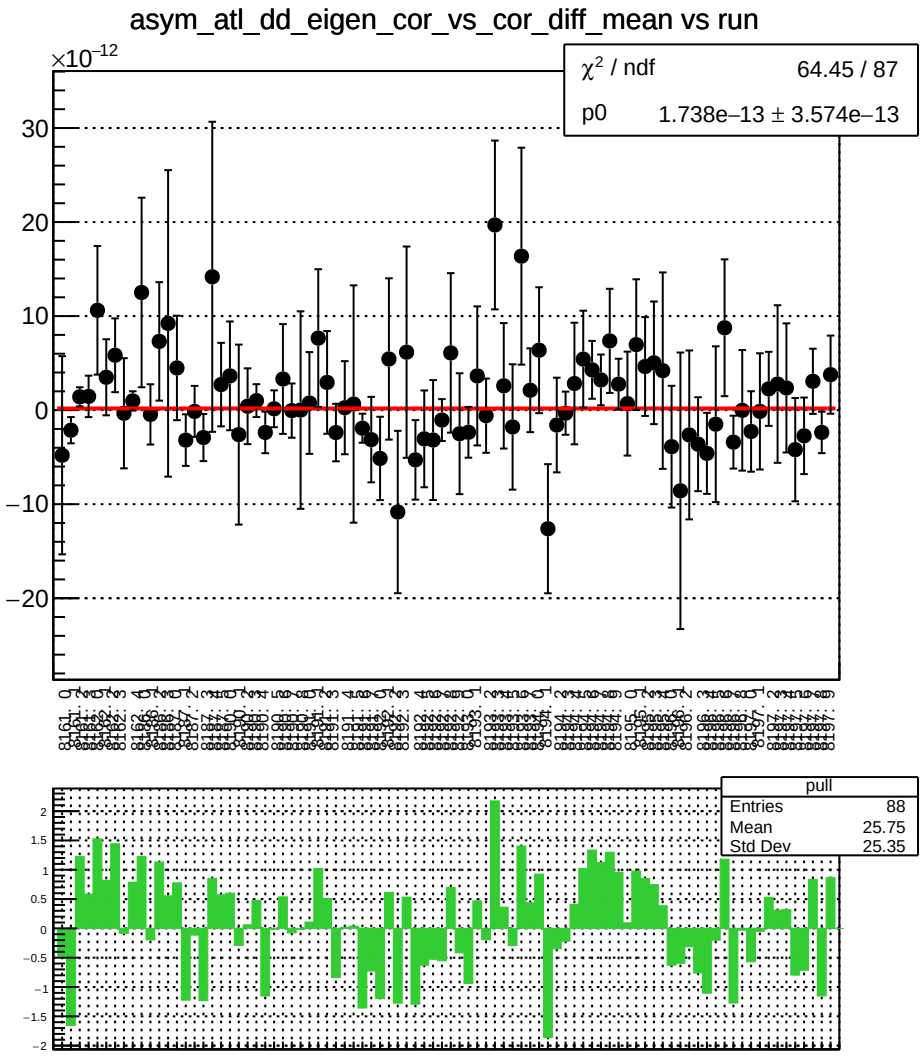

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.166e+05 / 87
p0 0.0103 ± 9.602e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

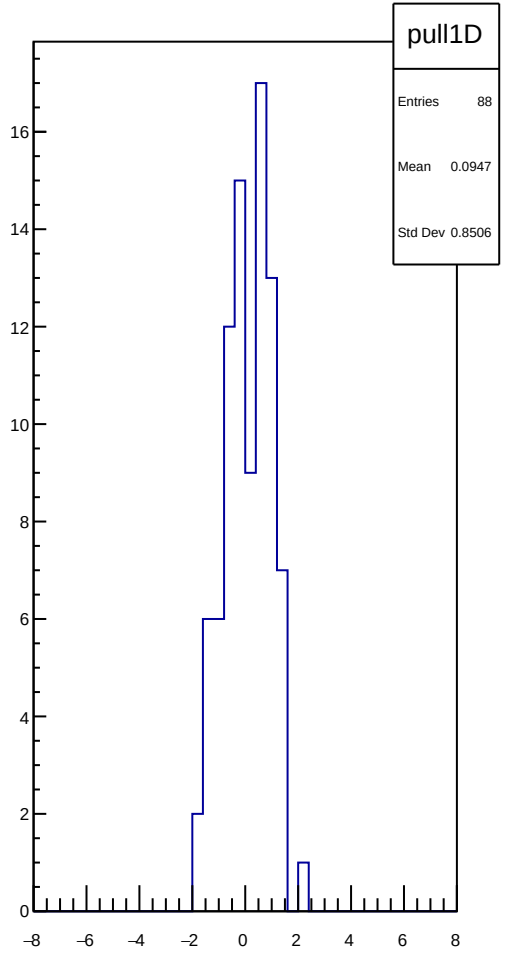

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.67 / 87
p0 0.3454 ± 0.135
pull
Entries 88
Mean 465.6
Std Dev 0
pull1D
Entries 88
Mean −0.006202
Std Dev 1.009

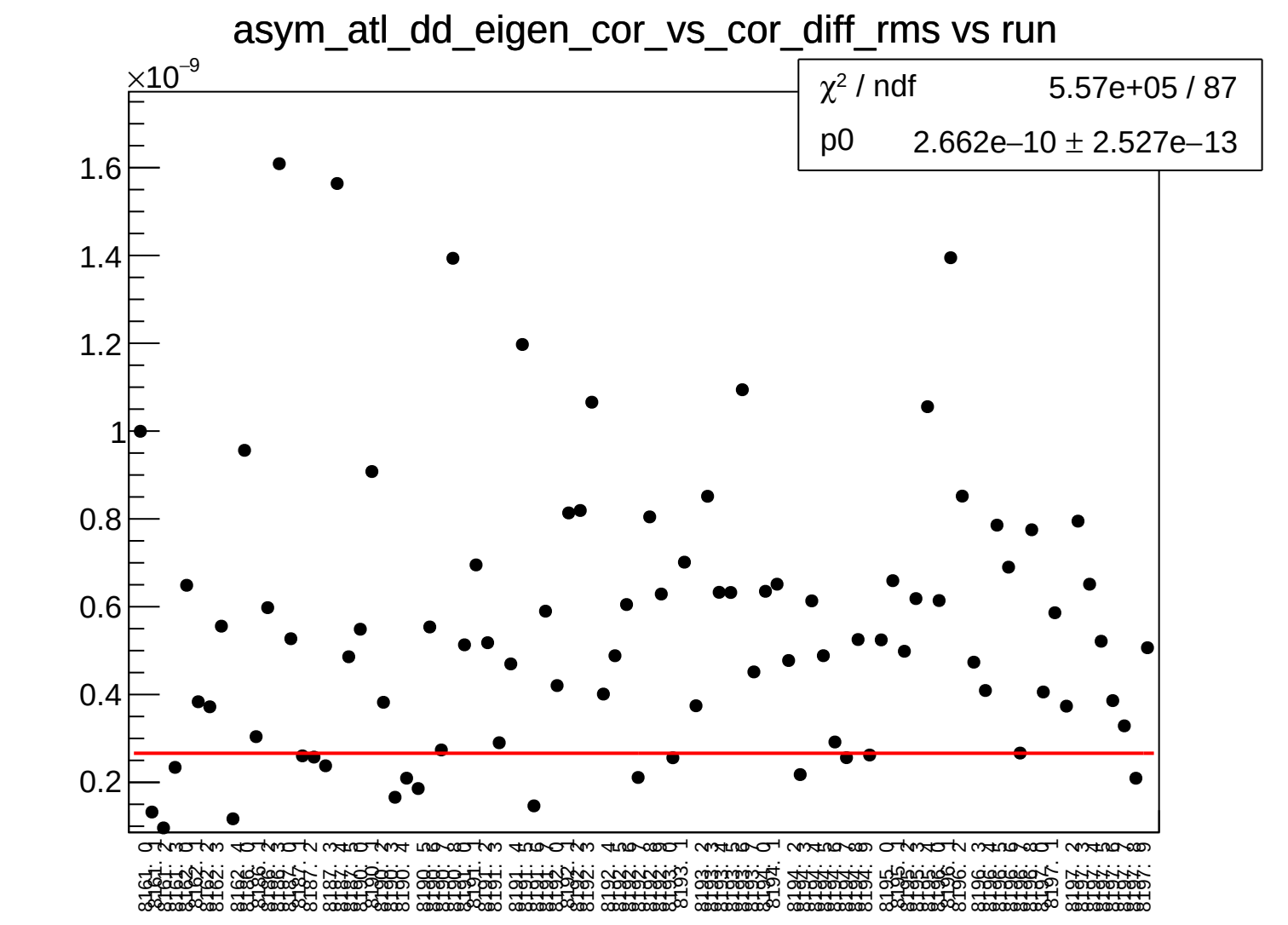

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.963e+04 / 87
p0 122.1 ± 0.09543
170
160
150
140
130
120
110
100
90

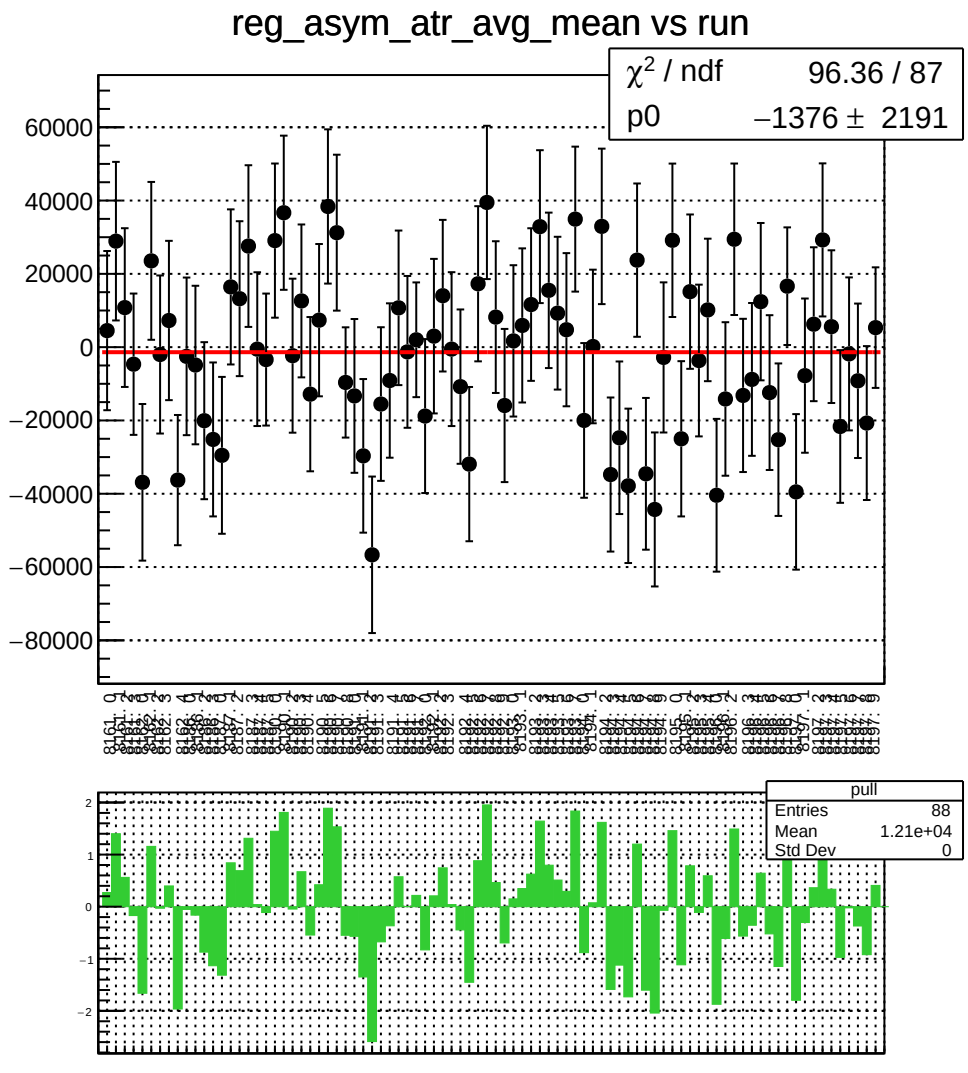

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.67 / 87
p0 0.3454 ± 0.135
pull
Entries 88
Mean 465.6
Std Dev 0
pull1D
Entries 88
Mean −0.006202
Std Dev 1.009

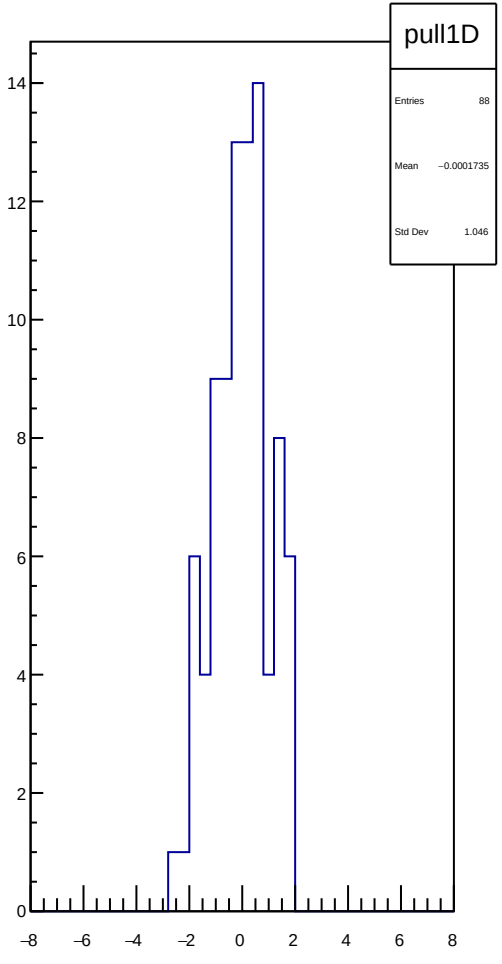

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.963e+04 / 87
p0 122.1 ± 0.09543
170
160
150
140
130
120
110
100
90

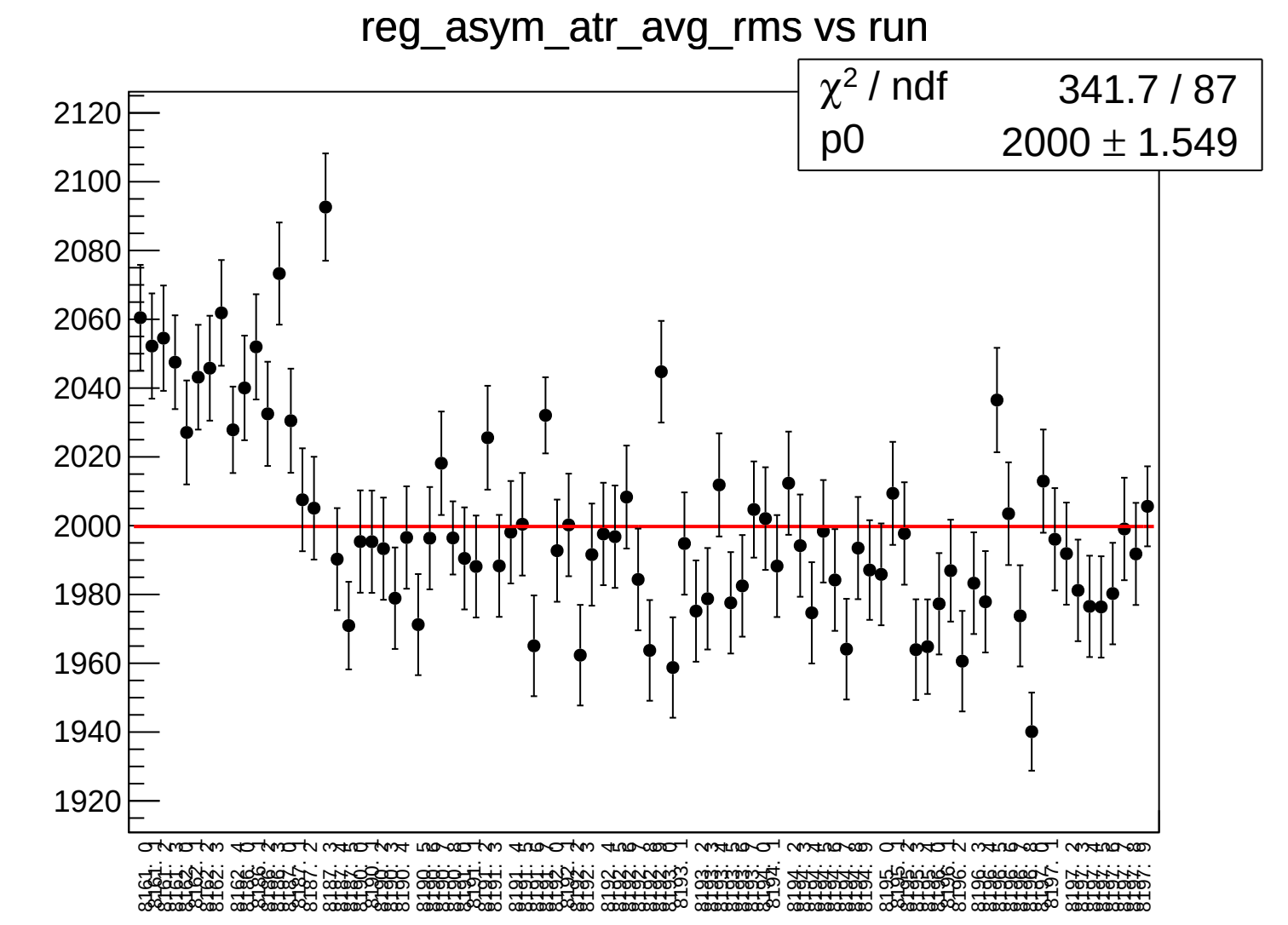

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.45 / 87
p0 1.738e−13 ± 3.574e−13
30
20
10
0
−10
−20
pull
Entries 88
Mean 25.75
Std Dev 25.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

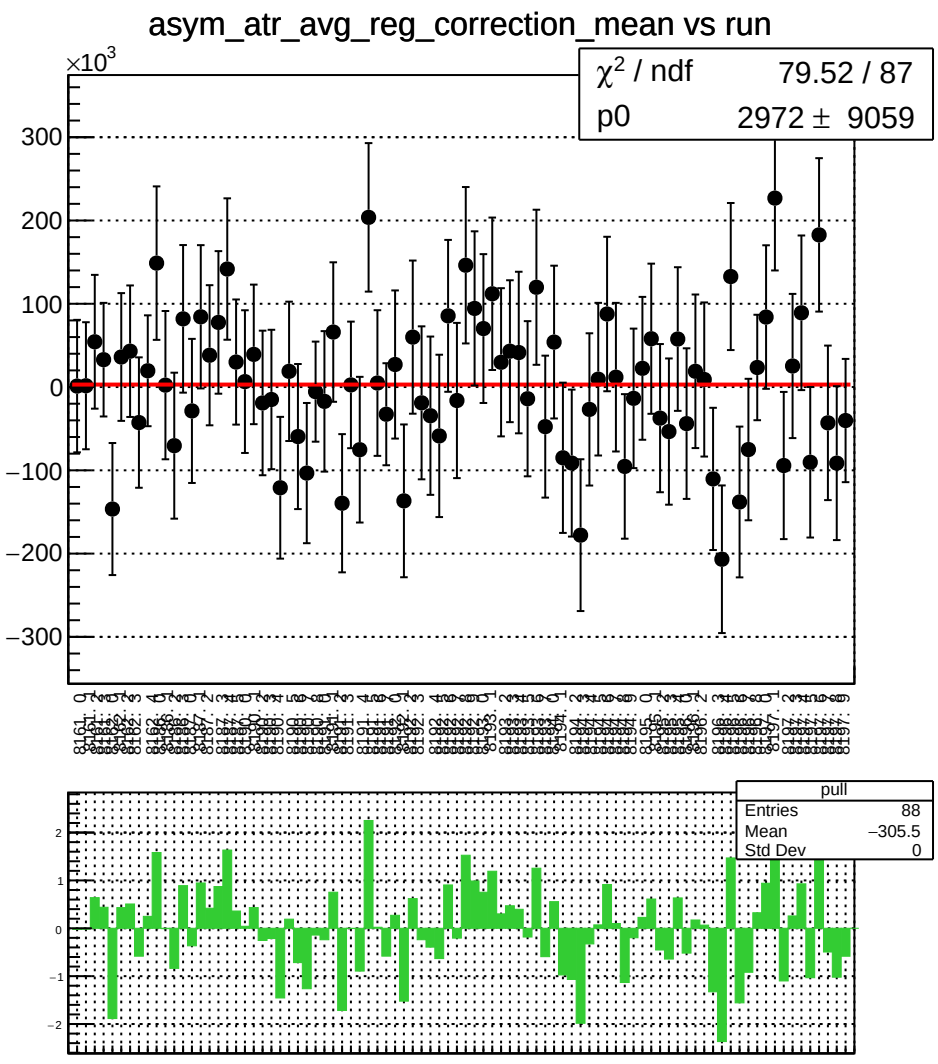

pull1D
Entries 88
Mean 0.0947
Std Dev 0.8506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

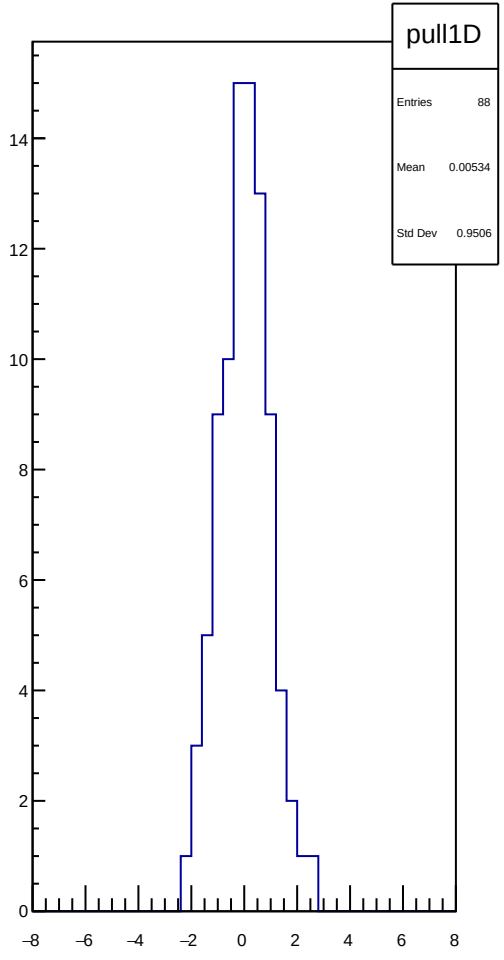

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.57e+05 / 87
p0 2.662e−10 ± 2.527e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

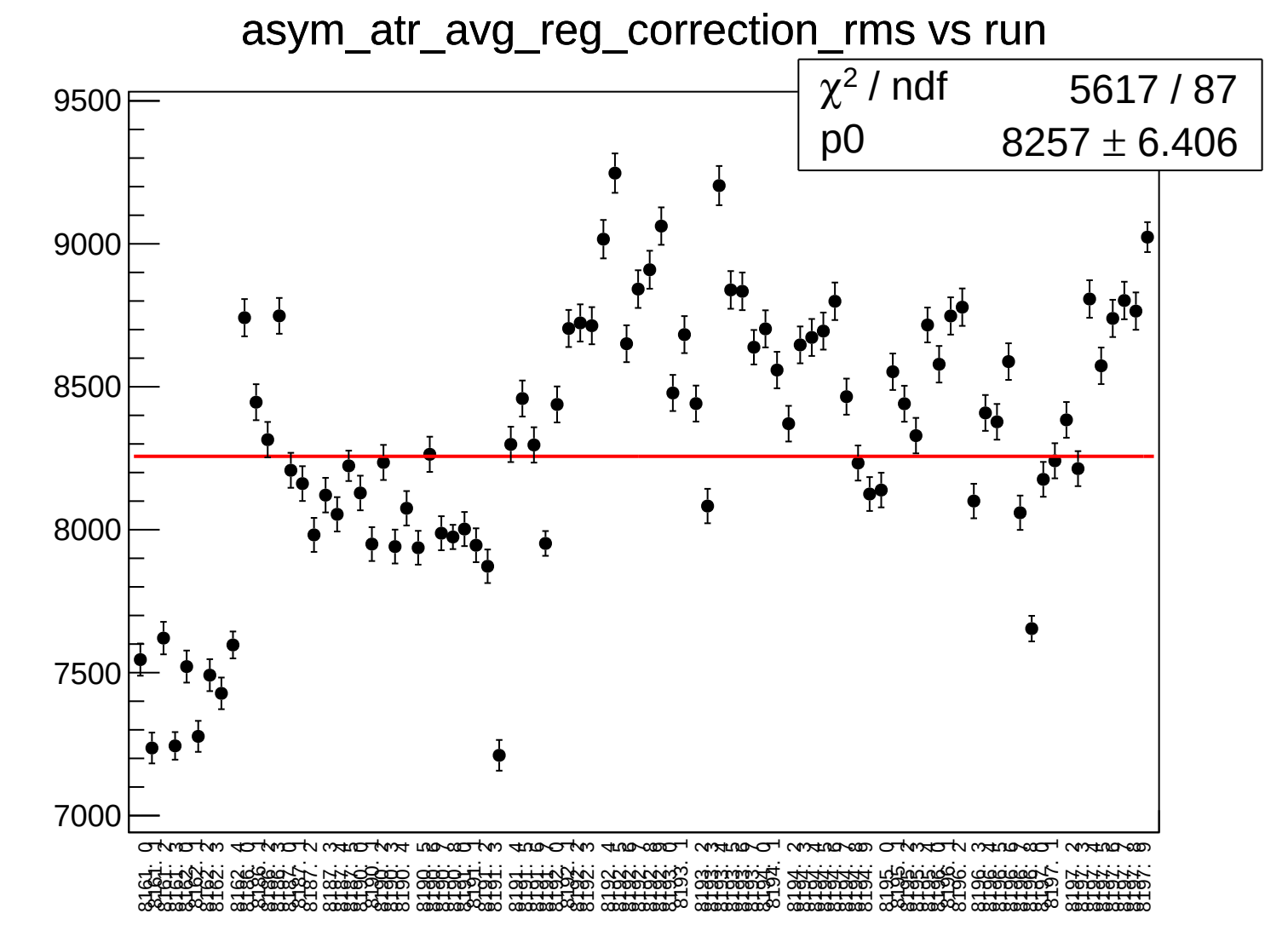

reg_asym_atr_avg_mean vs run
χ² / ndf 96.36 / 87
p0 −1376 ± 2191
pull
Entries 88
Mean 1.21e+04
Std Dev 0

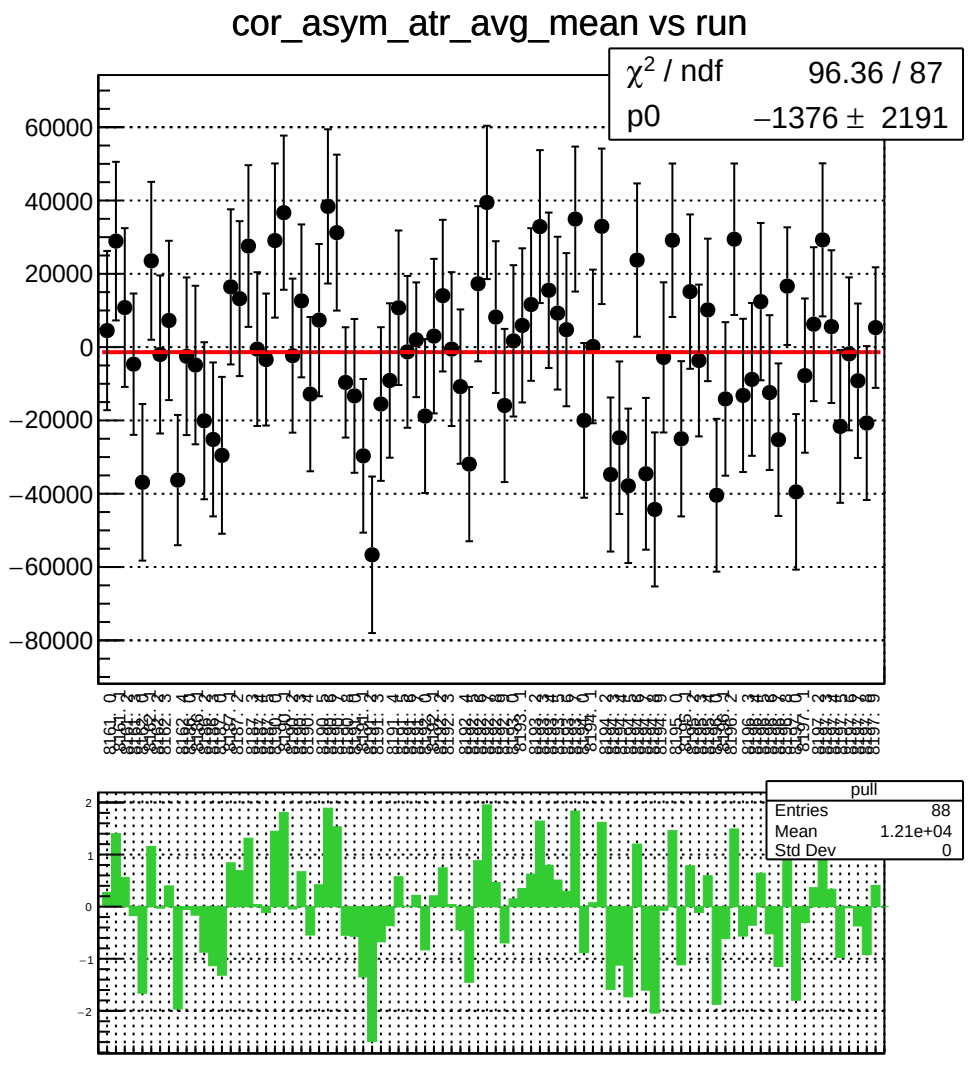

pull1D
Entries 88
Mean −0.0001735
Std Dev 1.046

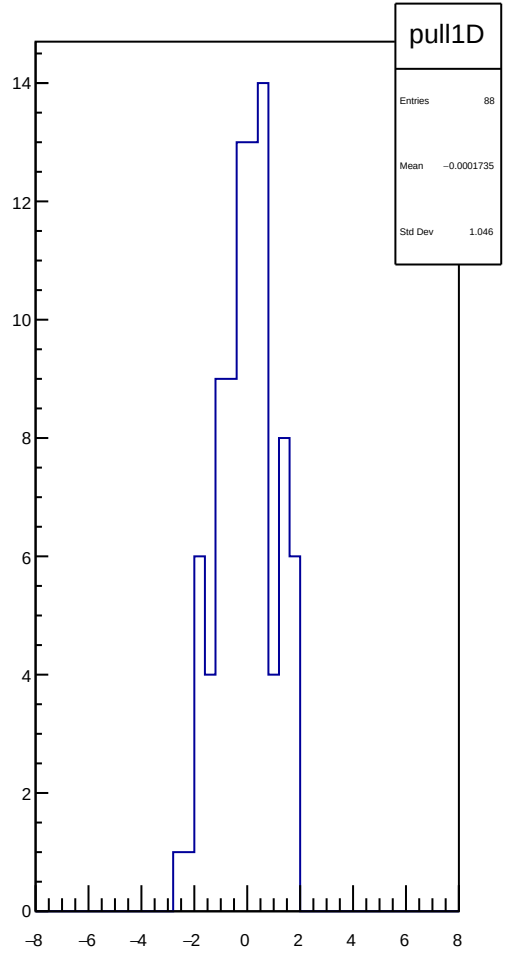

reg_asym_atr_avg_rms vs run
χ² / ndf 341.7 / 87
p0 2000 ± 1.549
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

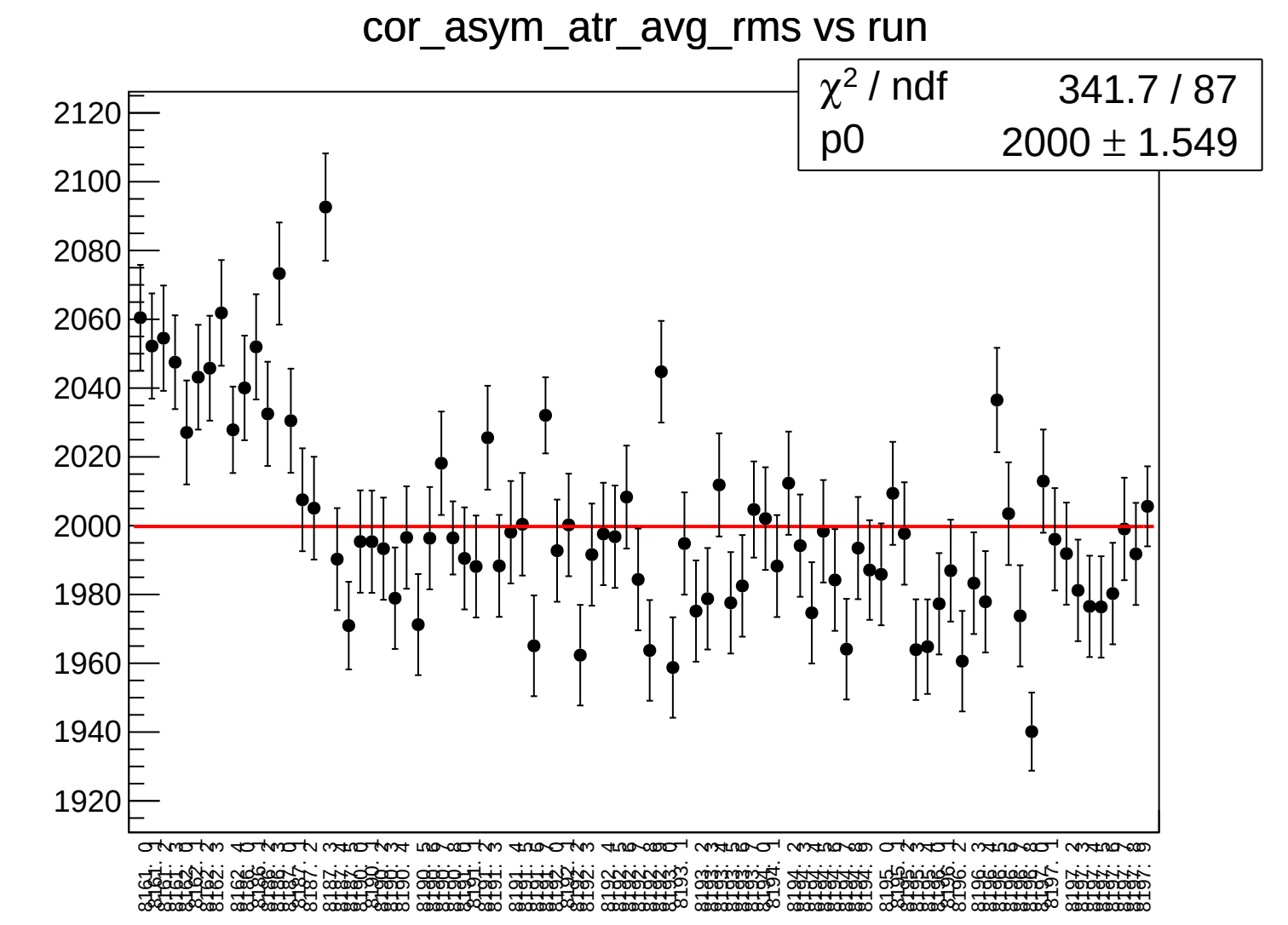

asym_atr_avg_reg_correction_mean vs run
χ² / ndf 79.52 / 87
p0 2972 ± 9059
×10³
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −305.5
Std Dev 0
2
1
0
−1
−2

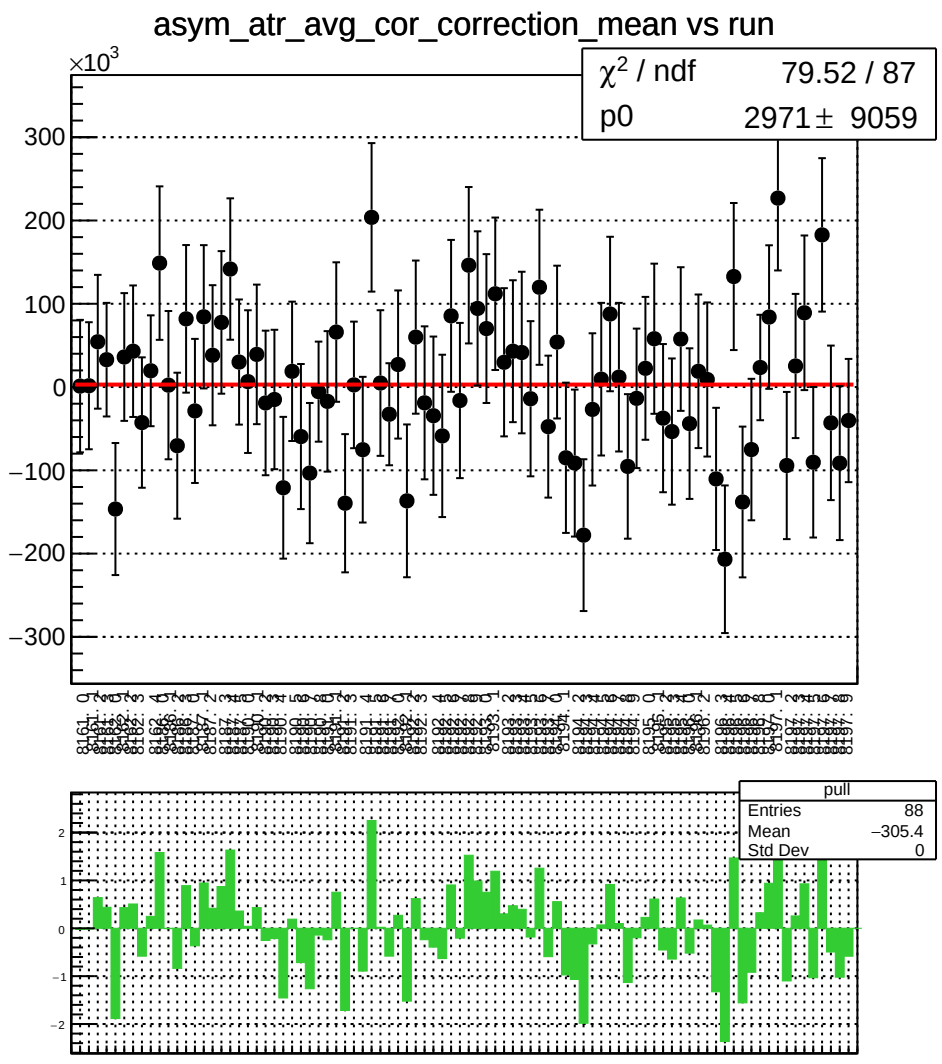

pull1D
Entries 88
Mean 0.00534
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

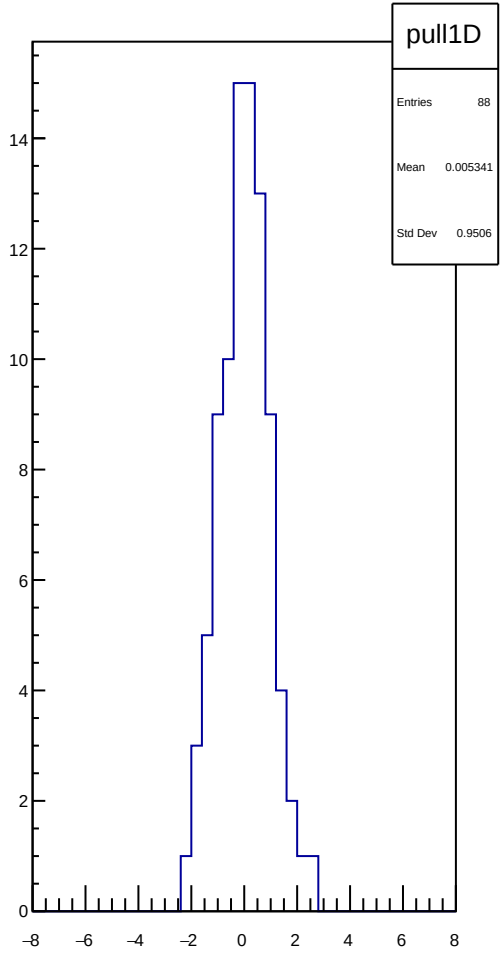

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 5617 / 87
p0 8257 ± 6.406
9500
9000
8500
8000
7500
7000

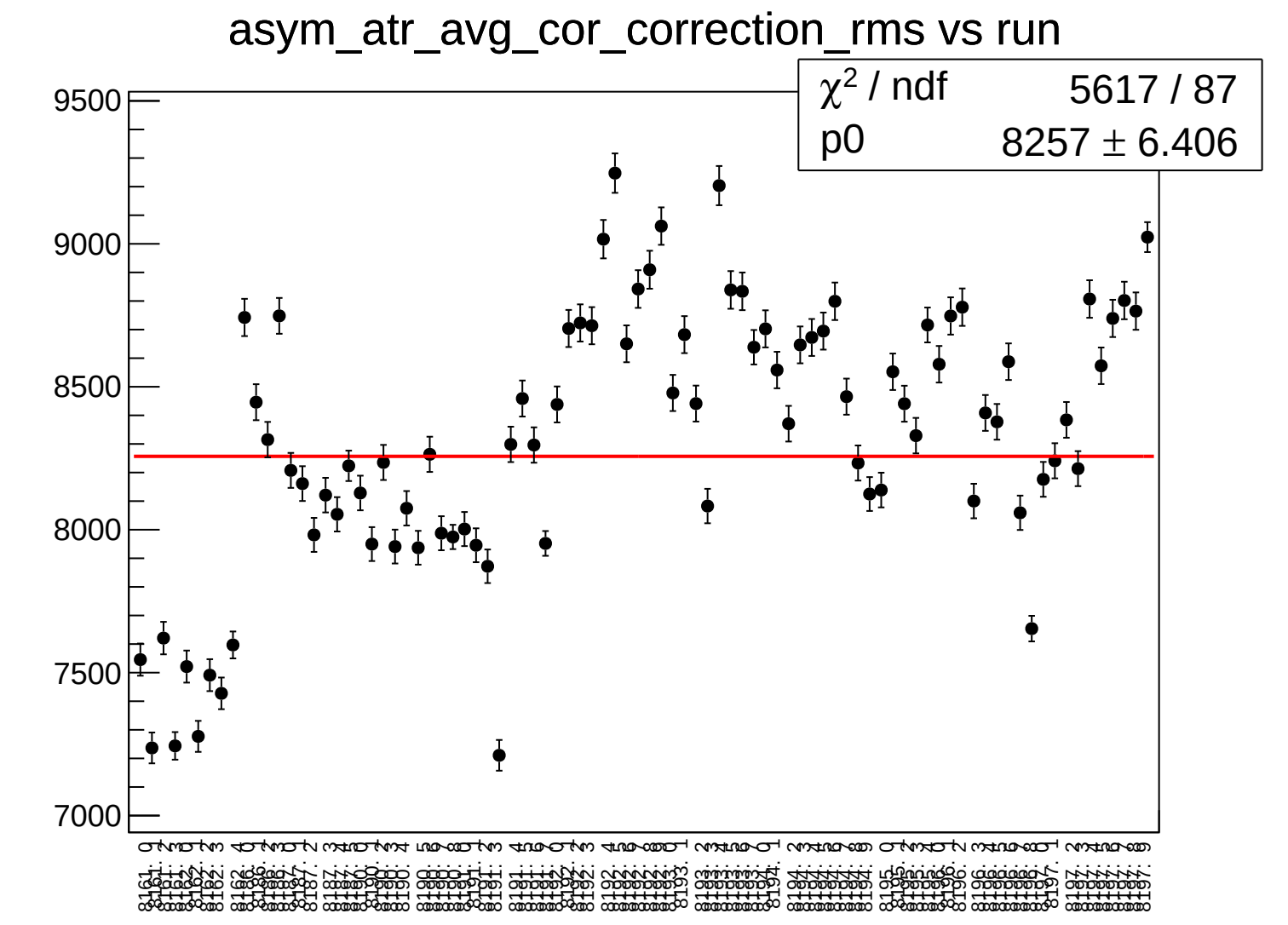

cor_asym_atr_avg_mean vs run
χ² / ndf 96.36 / 87
p0 −1376 ± 2191
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 1.21e+04
Std Dev 0
2
1
0
−1
−2

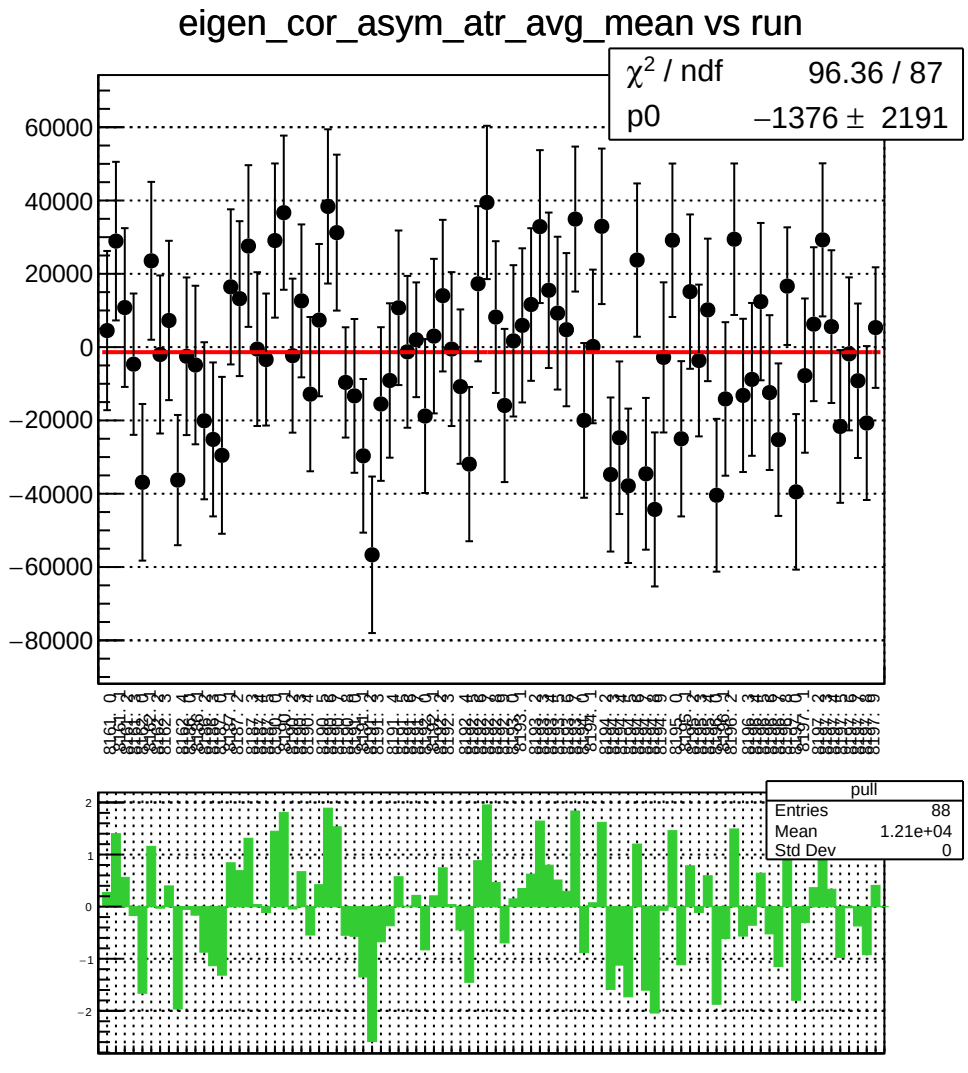

pull1D
Entries 88
Mean −0.0001735
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

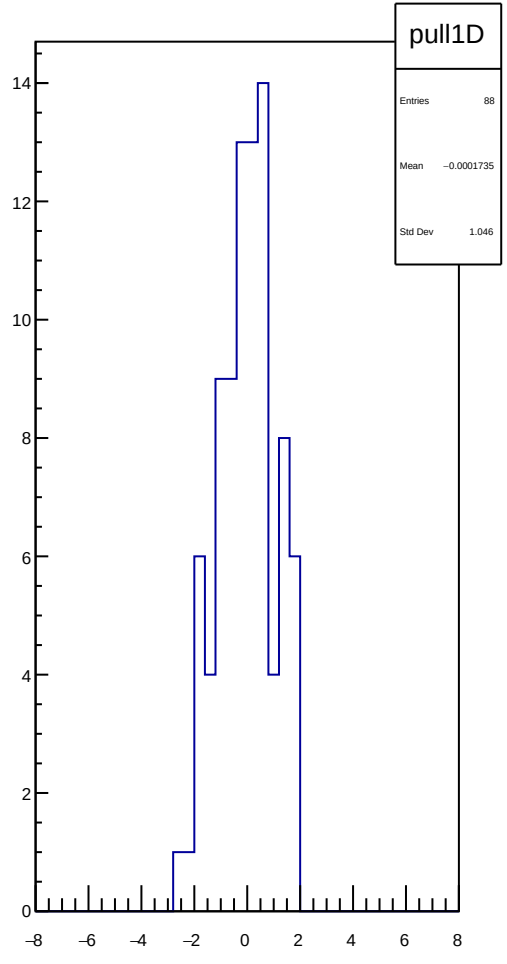

cor_asym_atr_avg_rms vs run
χ² / ndf 341.7 / 87
p0 2000 ± 1.549
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

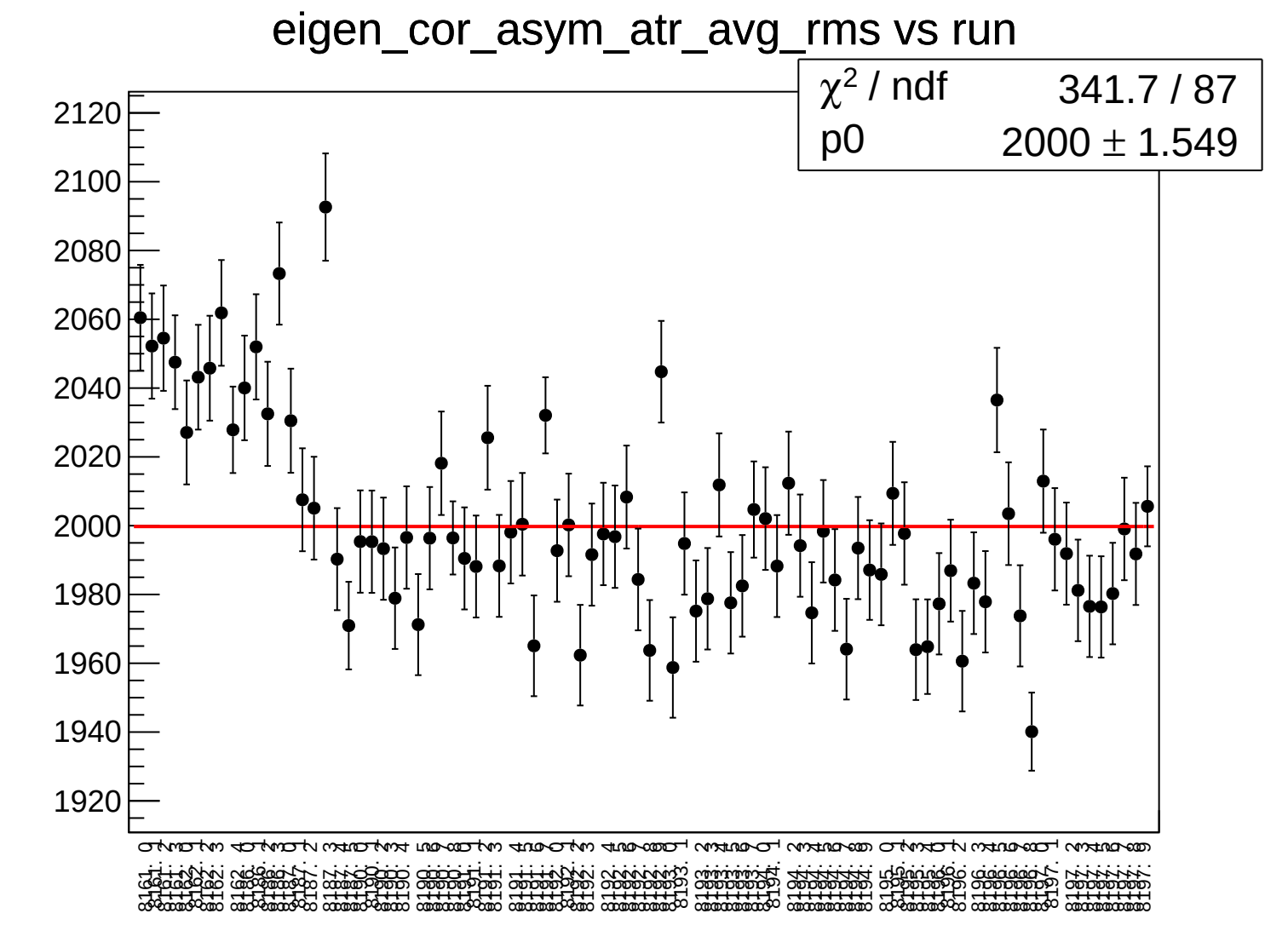

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.52 / 87
p0 2971 ± 9059
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −305.4
Std Dev 0
2
1
0
−1
−2

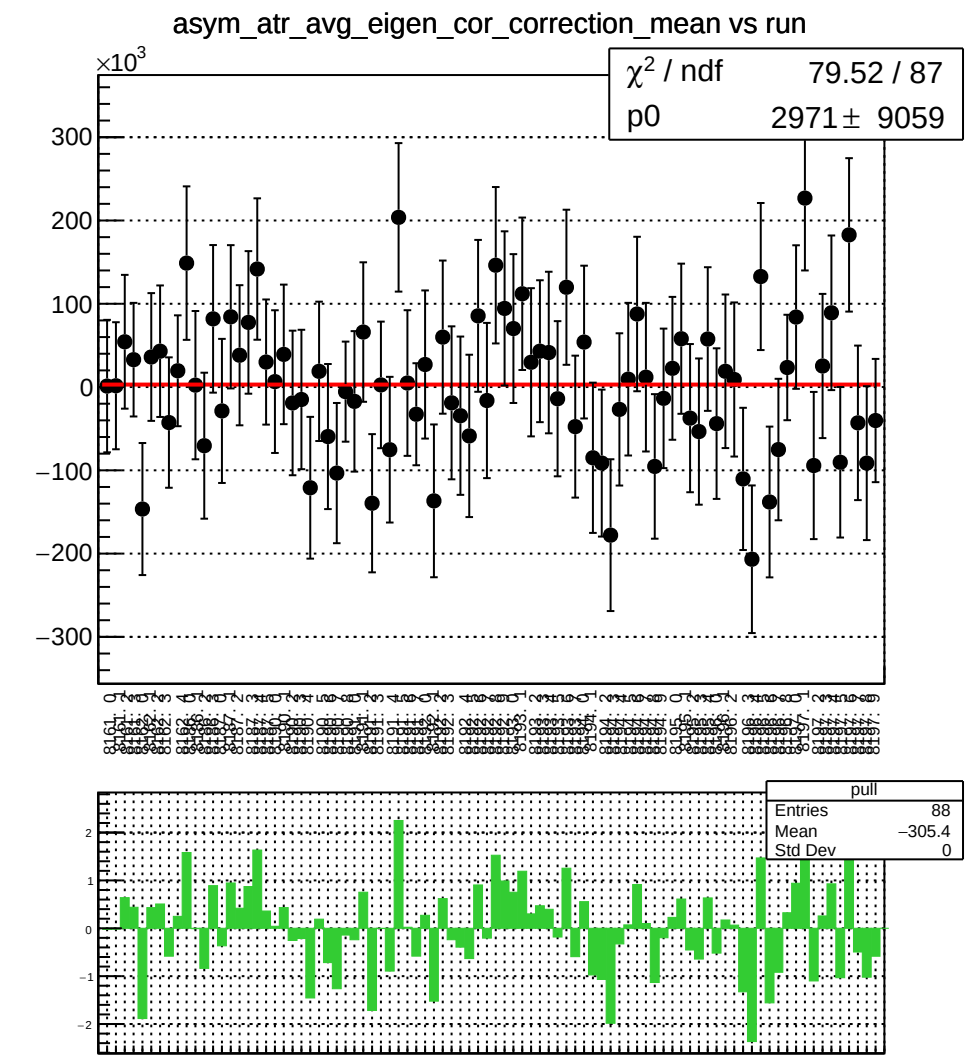

pull1D
Entries 88
Mean 0.005341
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

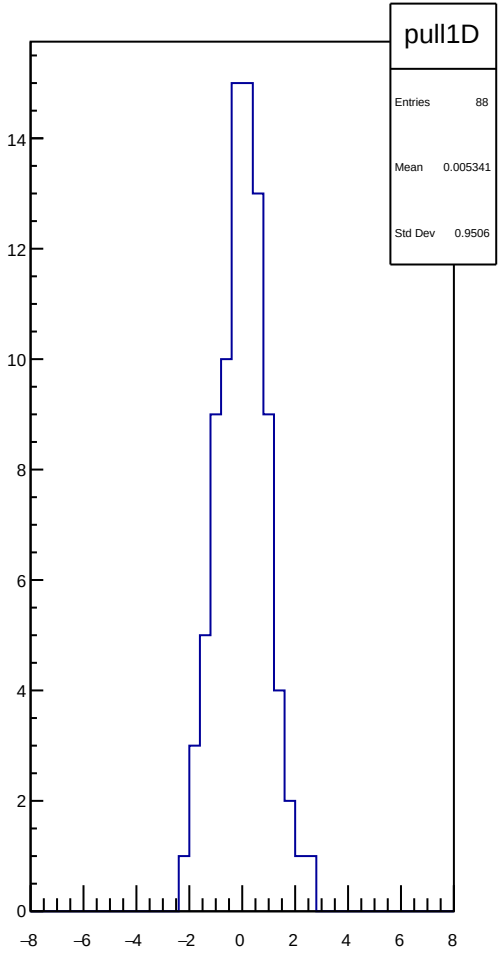

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 5617 / 87
p0 8257 ± 6.406
9500
9000
8500
8000
7500
7000

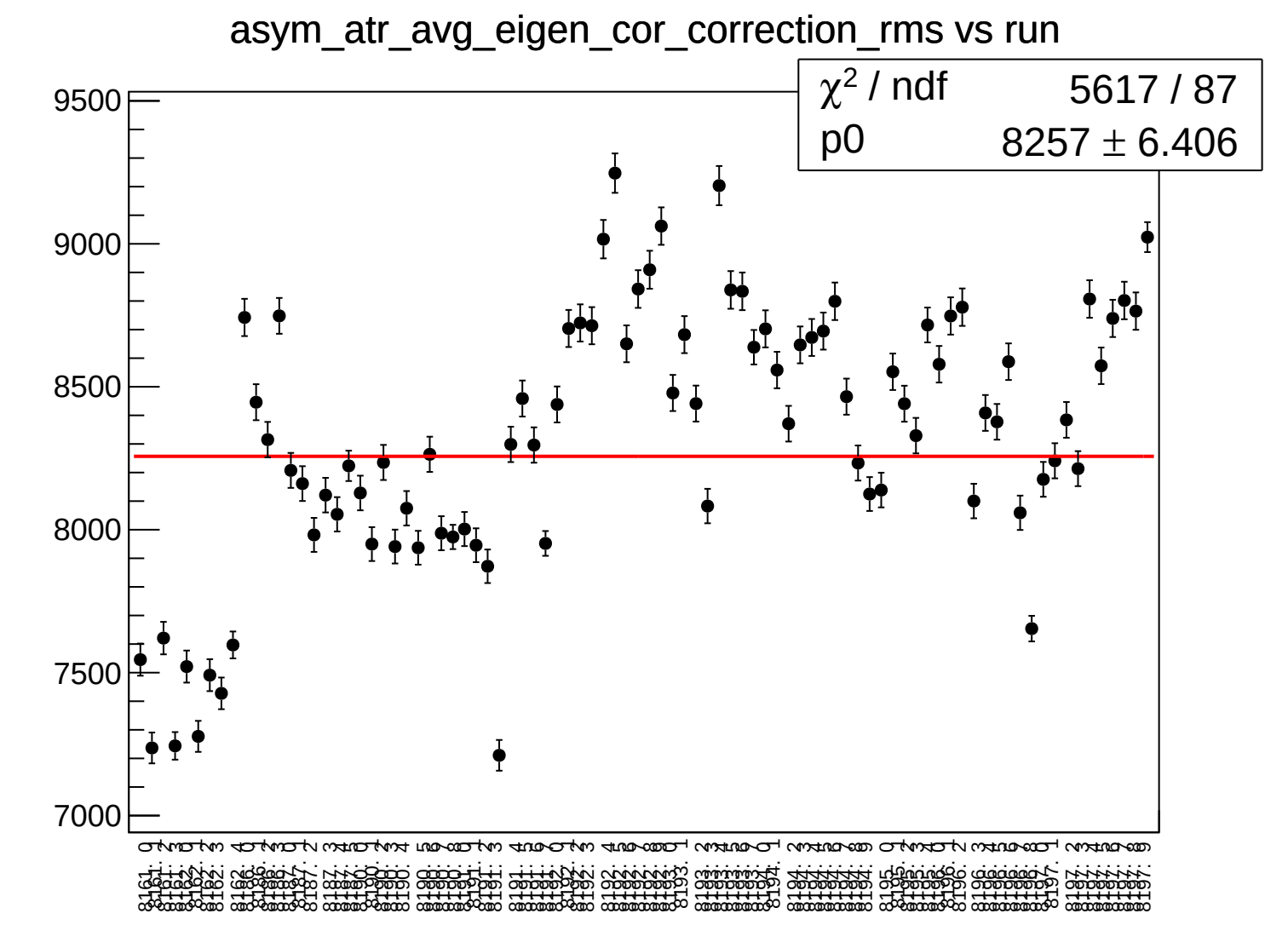

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 96.36 / 87
p0 −1376 ± 2191
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 1.21e+04
Std Dev 0
2
1
0
−1
−2

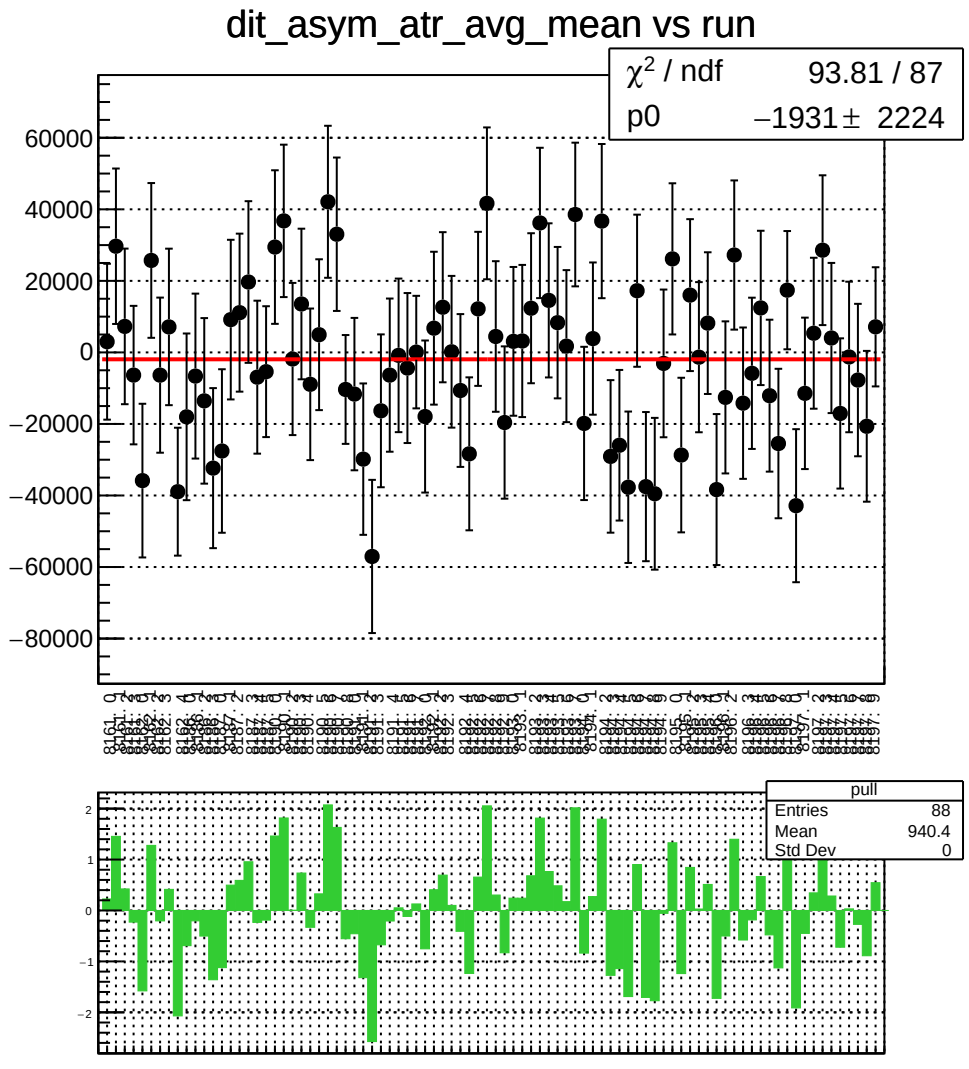

pull1D
Entries 88
Mean −0.0001735
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

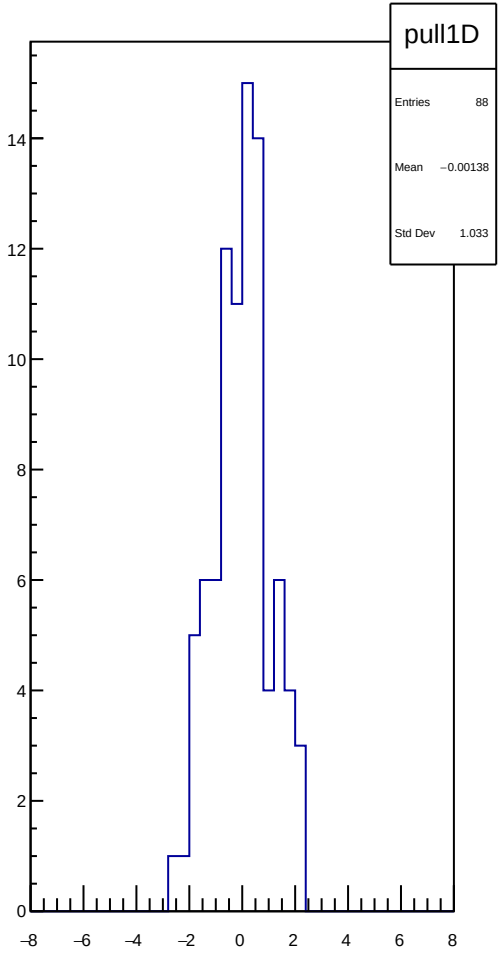

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 341.7 / 87
p0 2000 ± 1.549
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

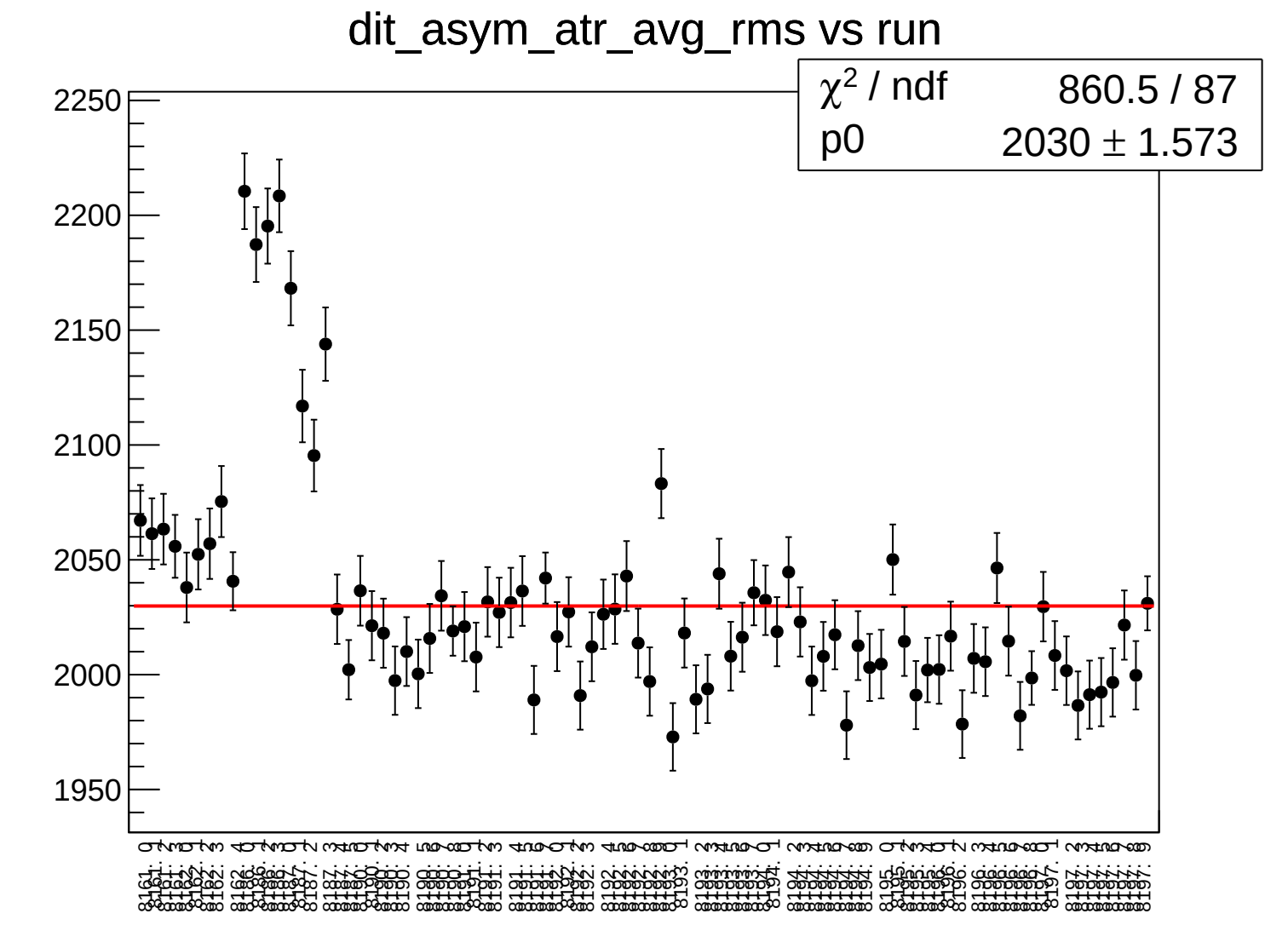

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.52 / 87
p0 2971 ± 9059
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −305.4
Std Dev 0
2
1
0
−1
−2

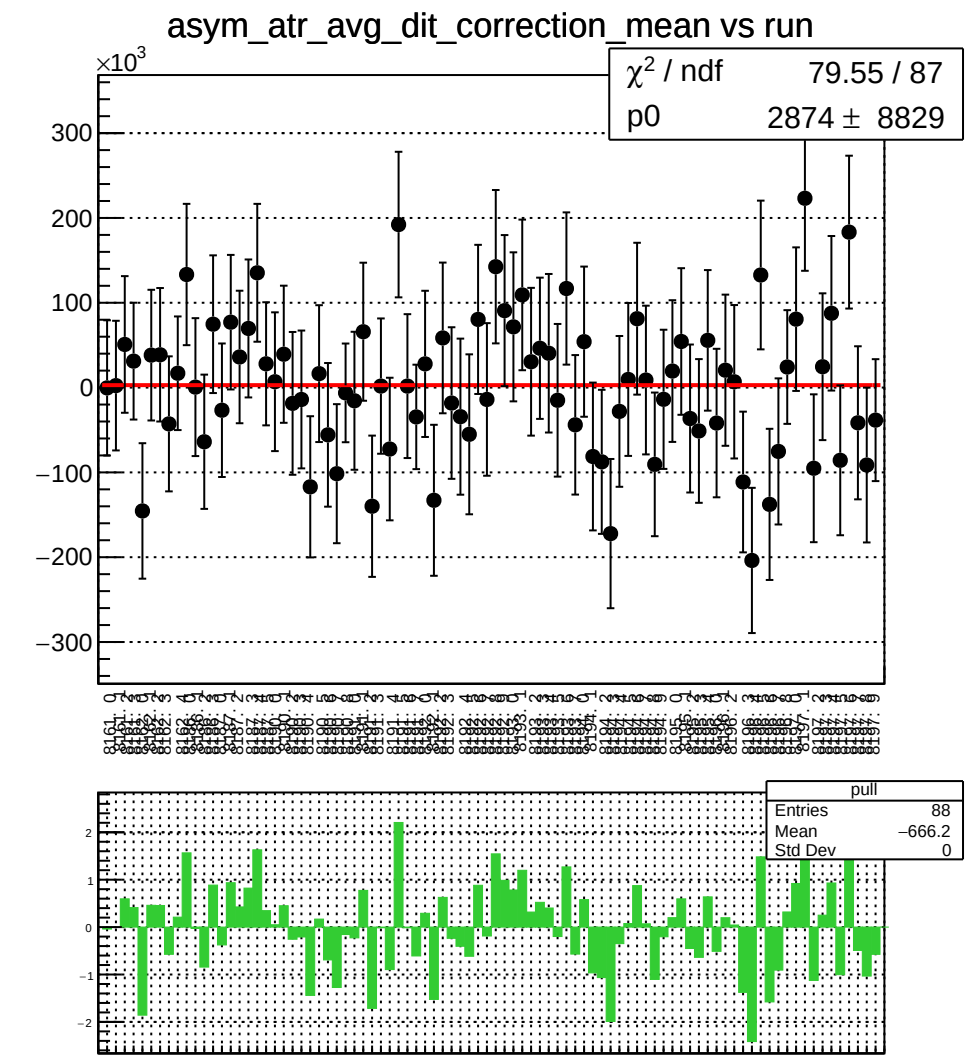

pull1D
Entries 88
Mean 0.005341
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

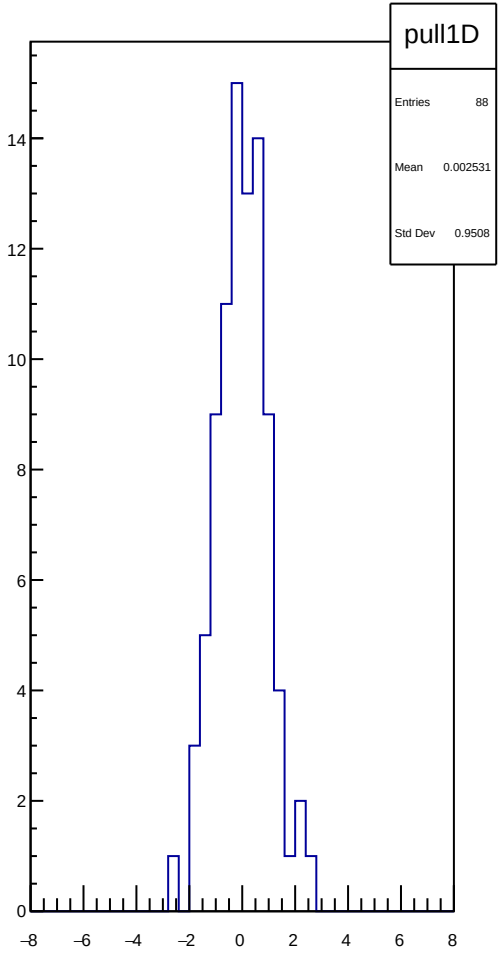

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 5617 / 87
p0 8257 ± 6.406
9500
9000
8500
8000
7500
7000

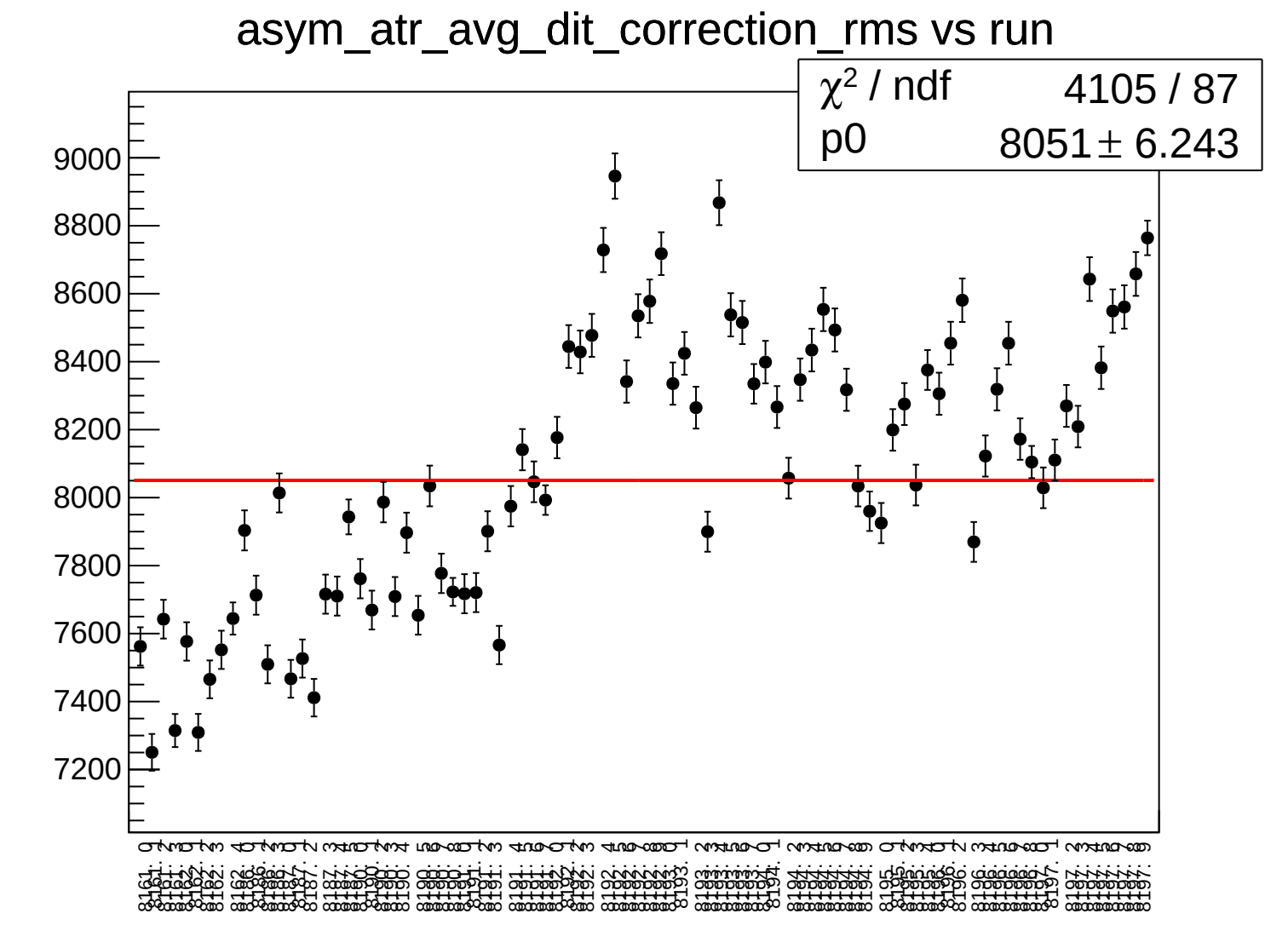

dit_asym_atr_avg_mean vs run
χ² / ndf 93.81 / 87
p0 −1931 ± 2224
pull
Entries 88
Mean 940.4
Std Dev 0

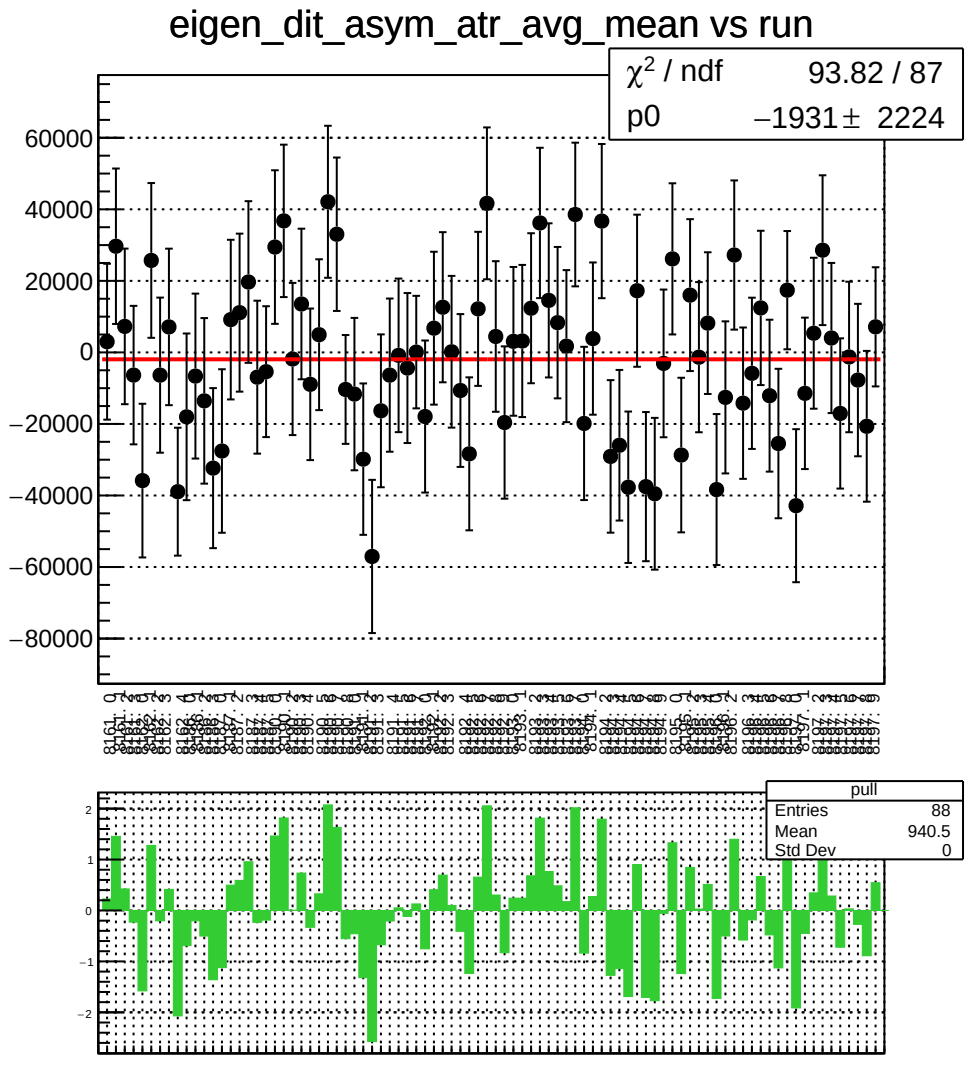

pull1D
Entries 88
Mean −0.00138
Std Dev 1.033

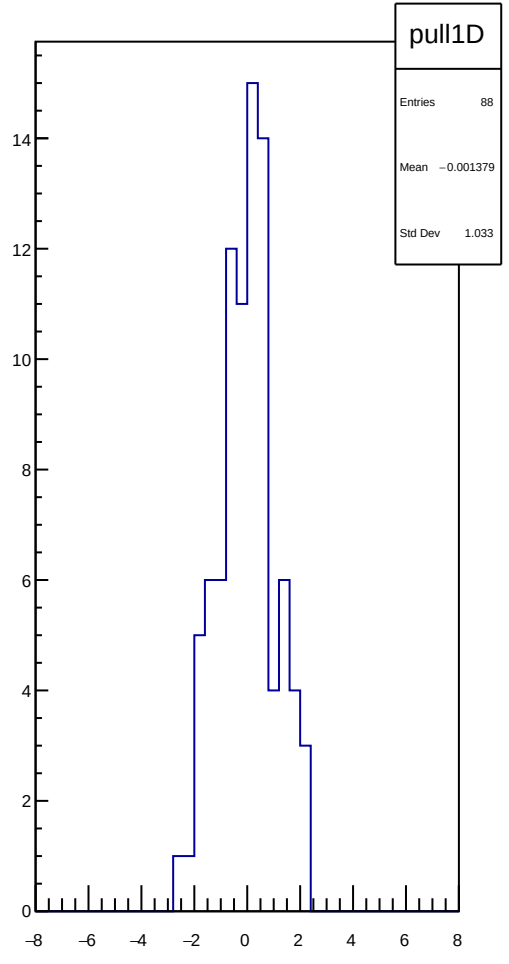

dit_asym_atr_avg_rms vs run
χ² / ndf 860.5 / 87
p0 2030 ± 1.573
2250
2200
2150
2100
2050
2000
1950

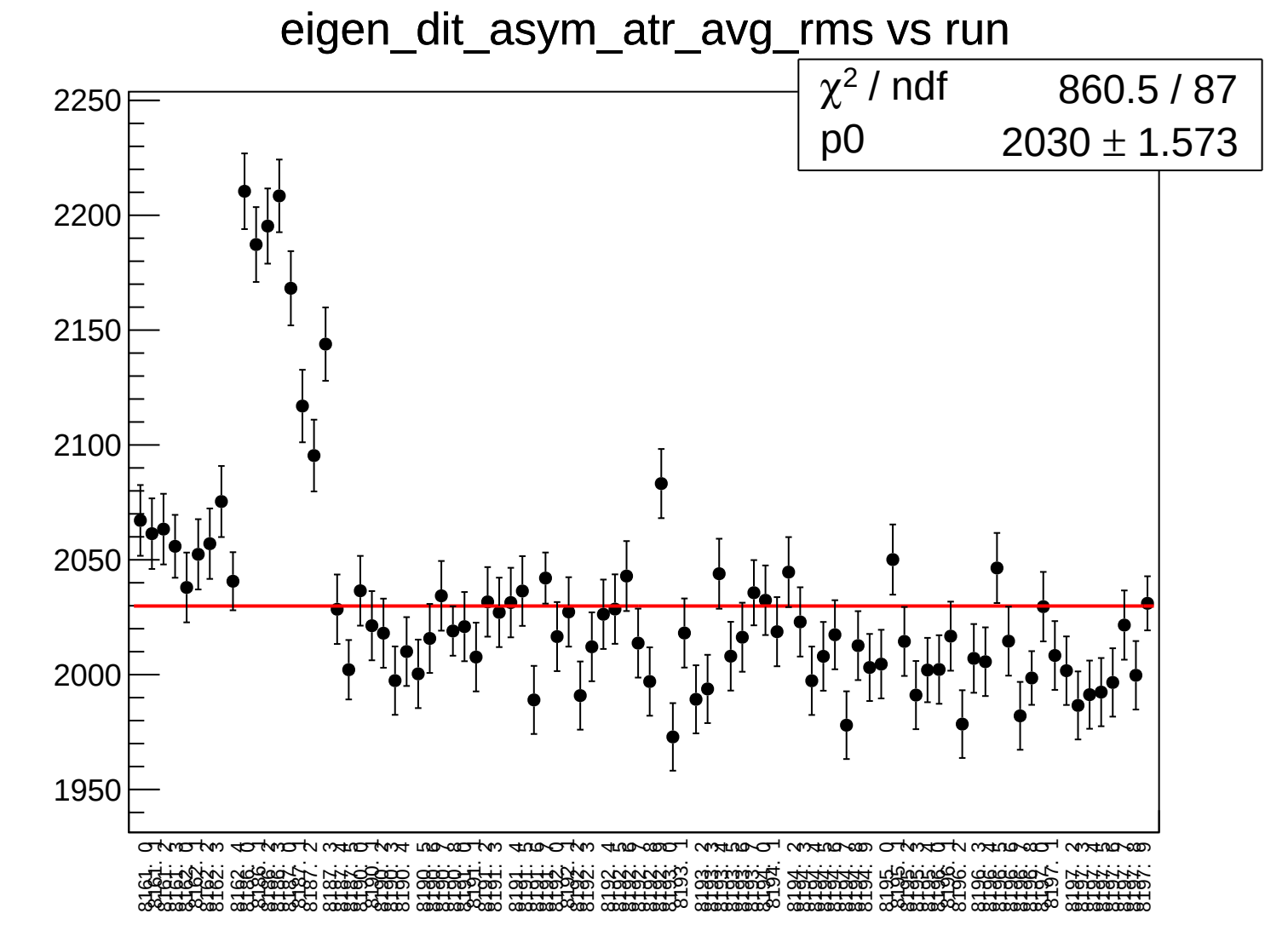

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.55 / 87
p0 2874 ± 8829
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −666.2
Std Dev 0
2
1
0
−1
−2

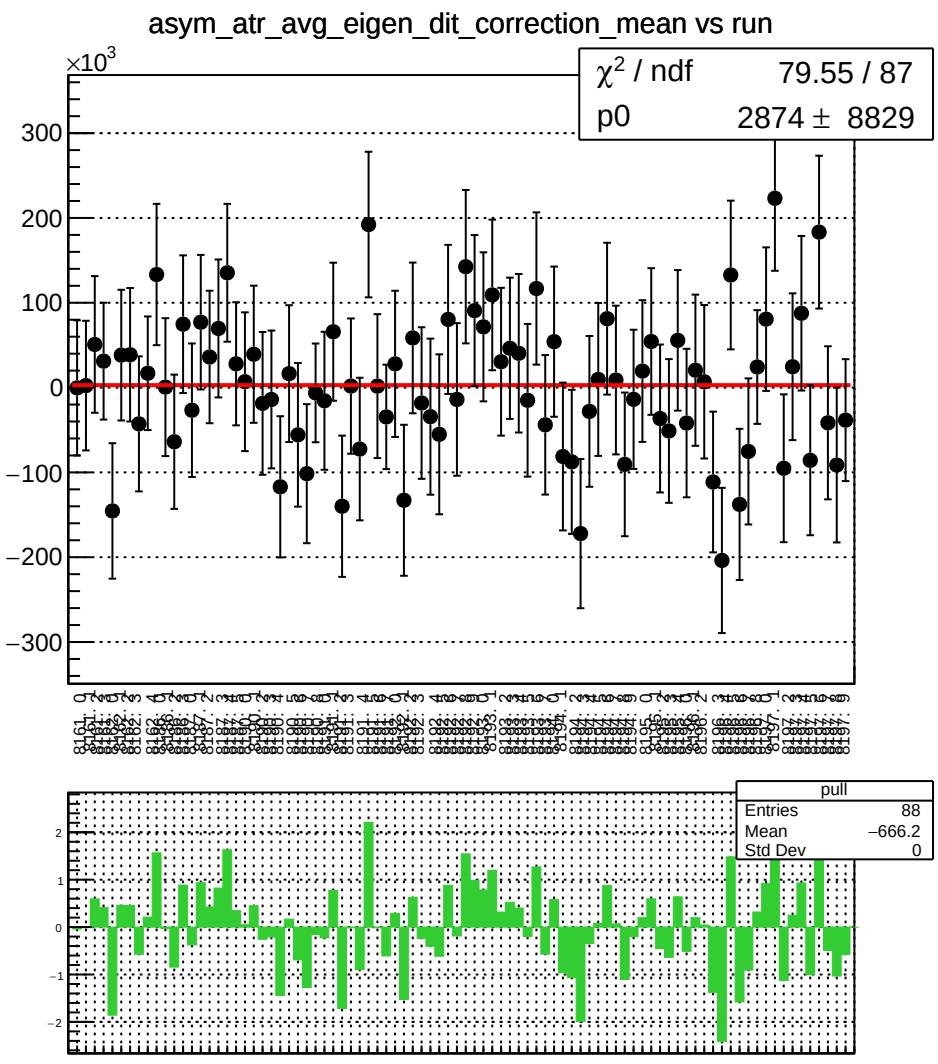

pull1D
Entries 88
Mean 0.002531
Std Dev 0.9508
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

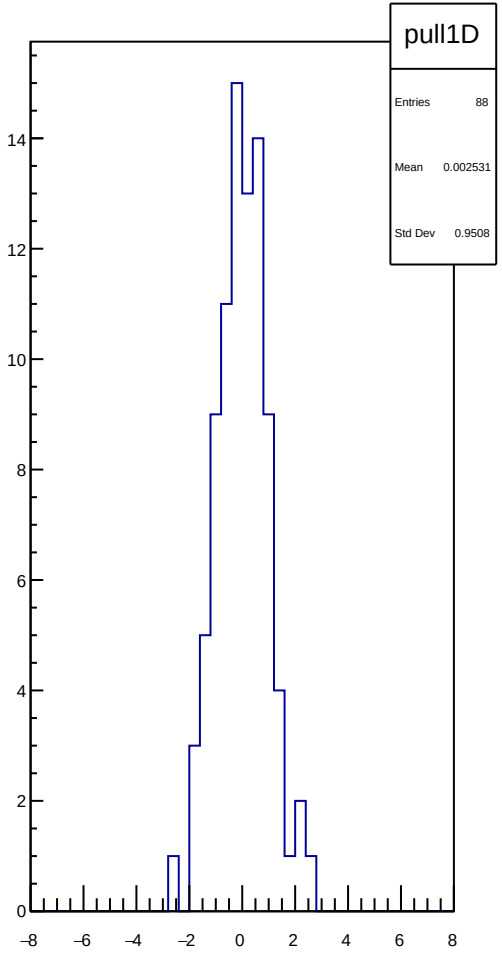

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 4105 / 87
p0 8051 ± 6.243
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

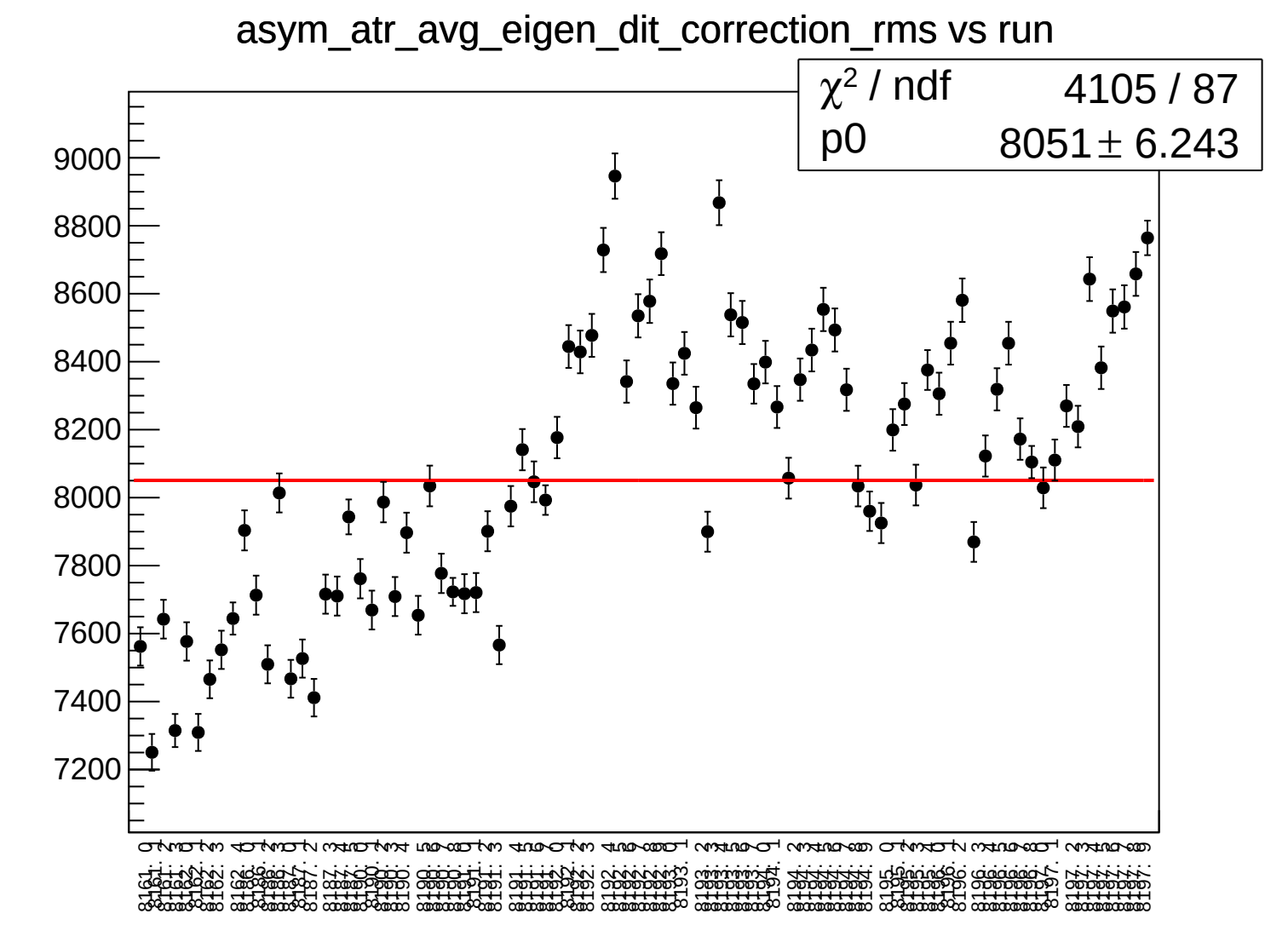

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 93.82 / 87
p0 −1931 ± 2224
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 940.5
Std Dev 0
2
1
0
−1
−2

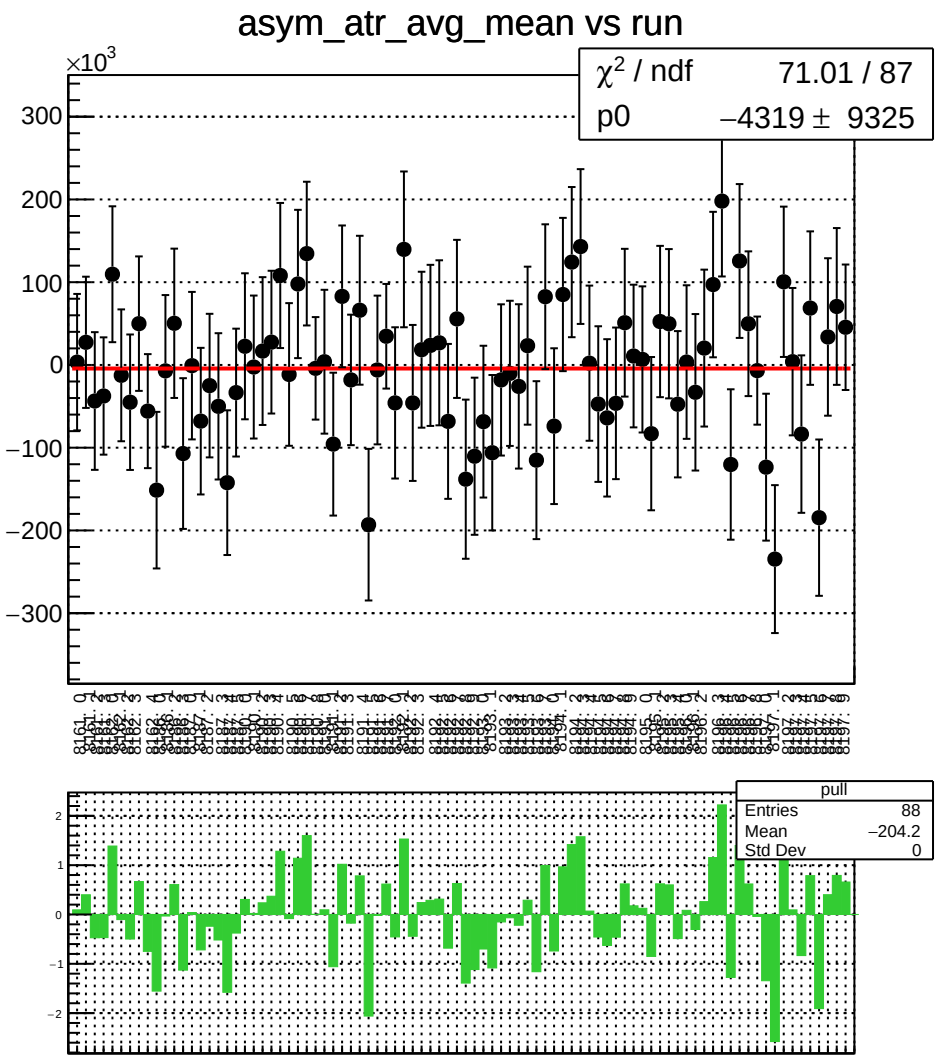

pull1D
Entries 88
Mean −0.001379
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

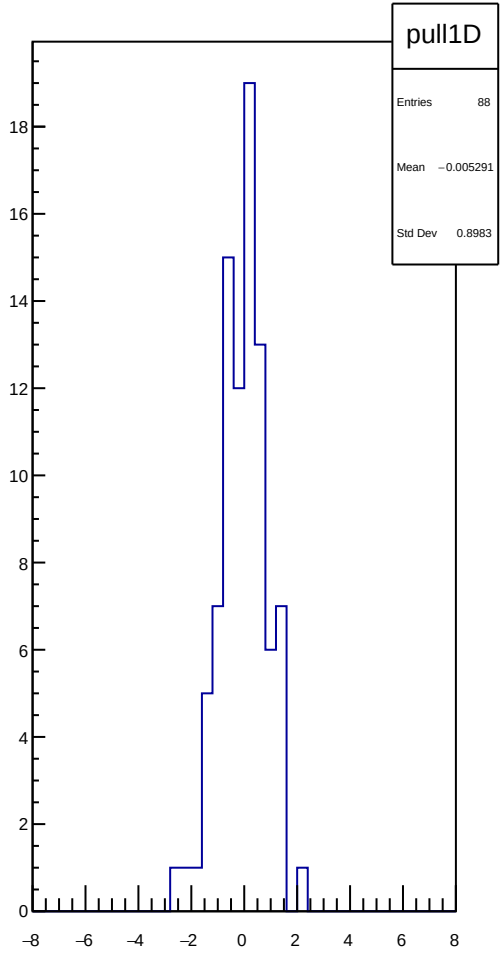

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 860.5 / 87
p0 2030 ± 1.573
2250
2200
2150
2100
2050
2000
1950

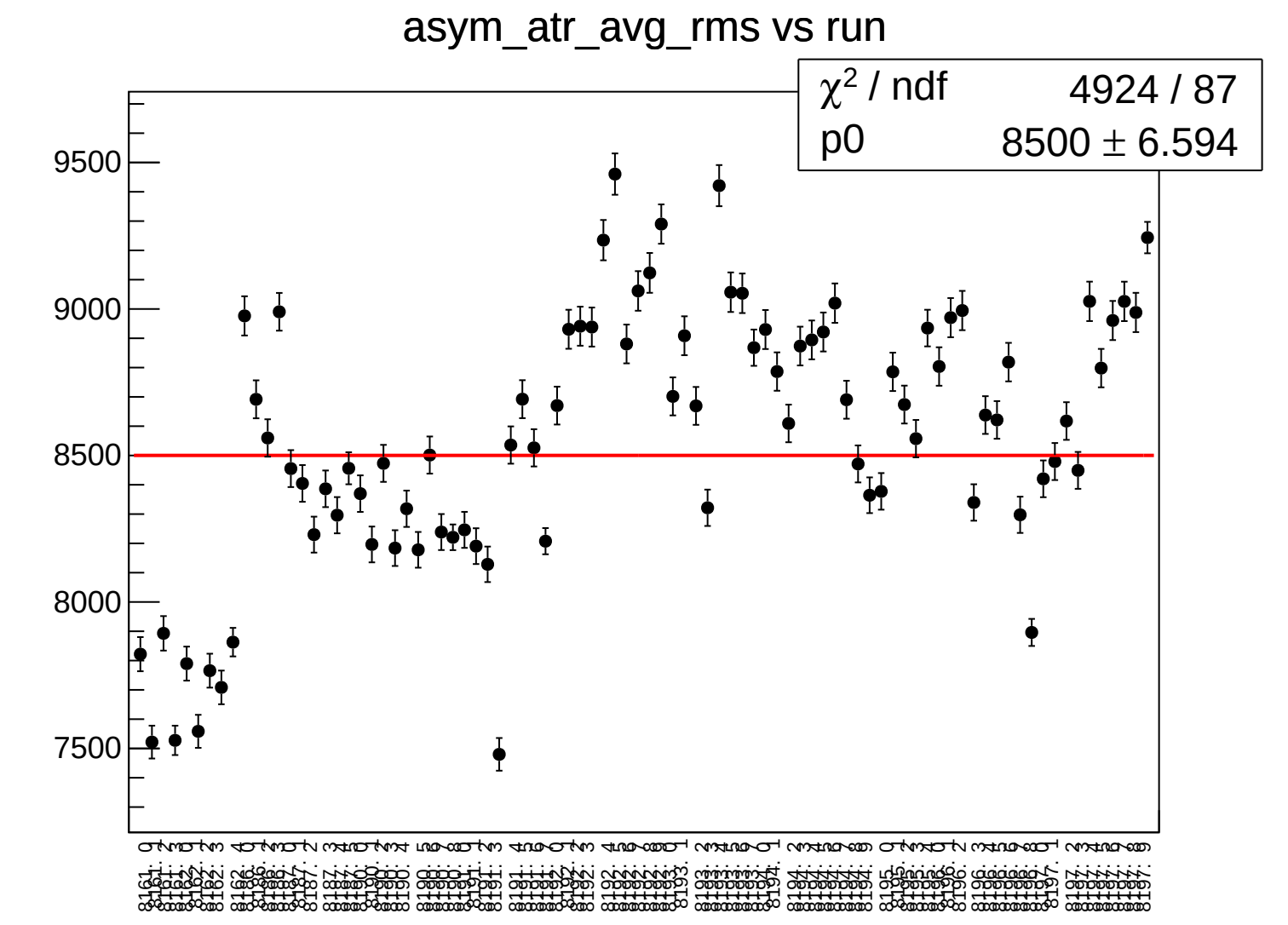

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.55 / 87
p0 2874 ± 8829
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −666.2
Std Dev 0
2
1
0
−1
−2

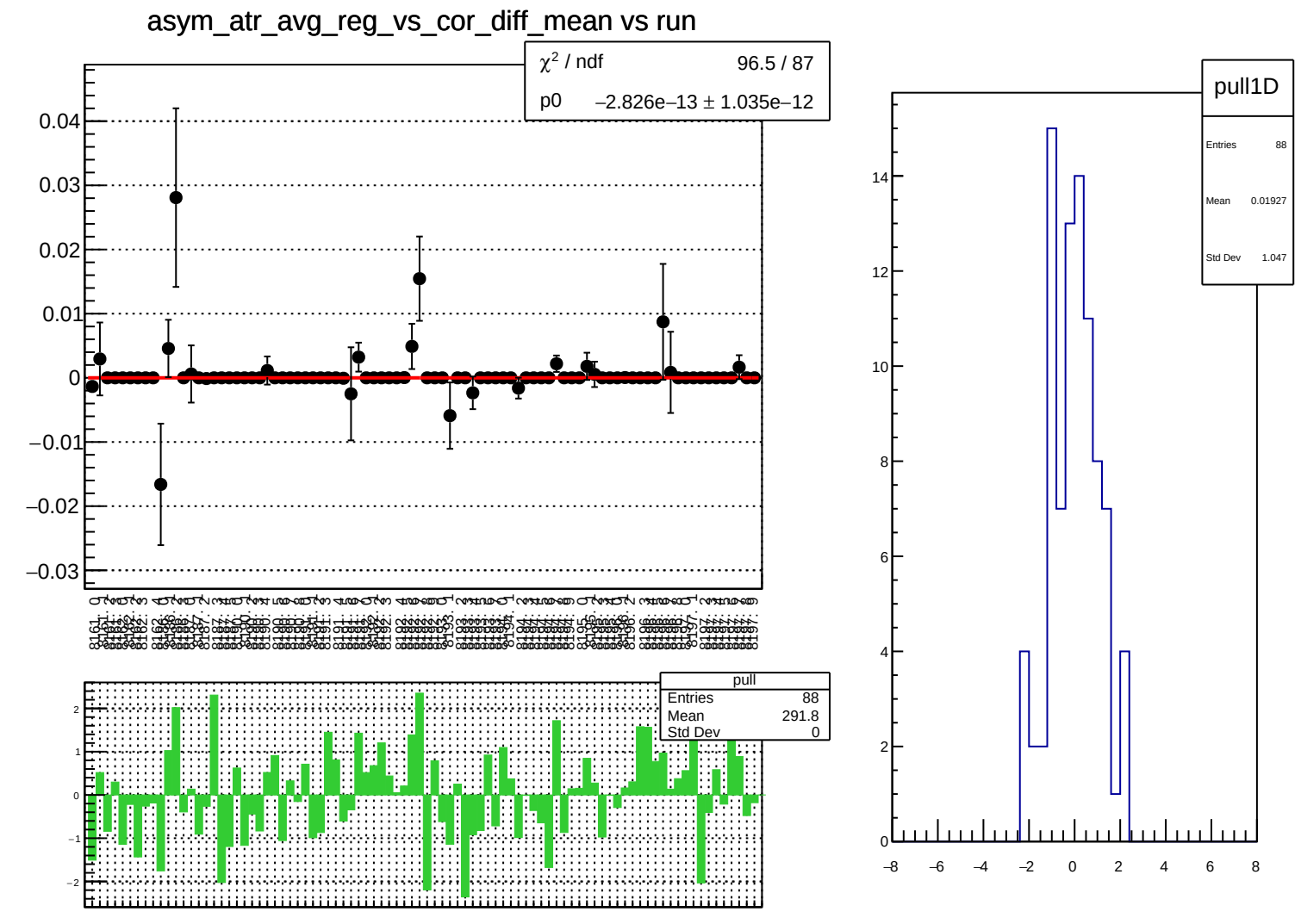

pull1D
Entries 88
Mean 0.002531
Std Dev 0.9508
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

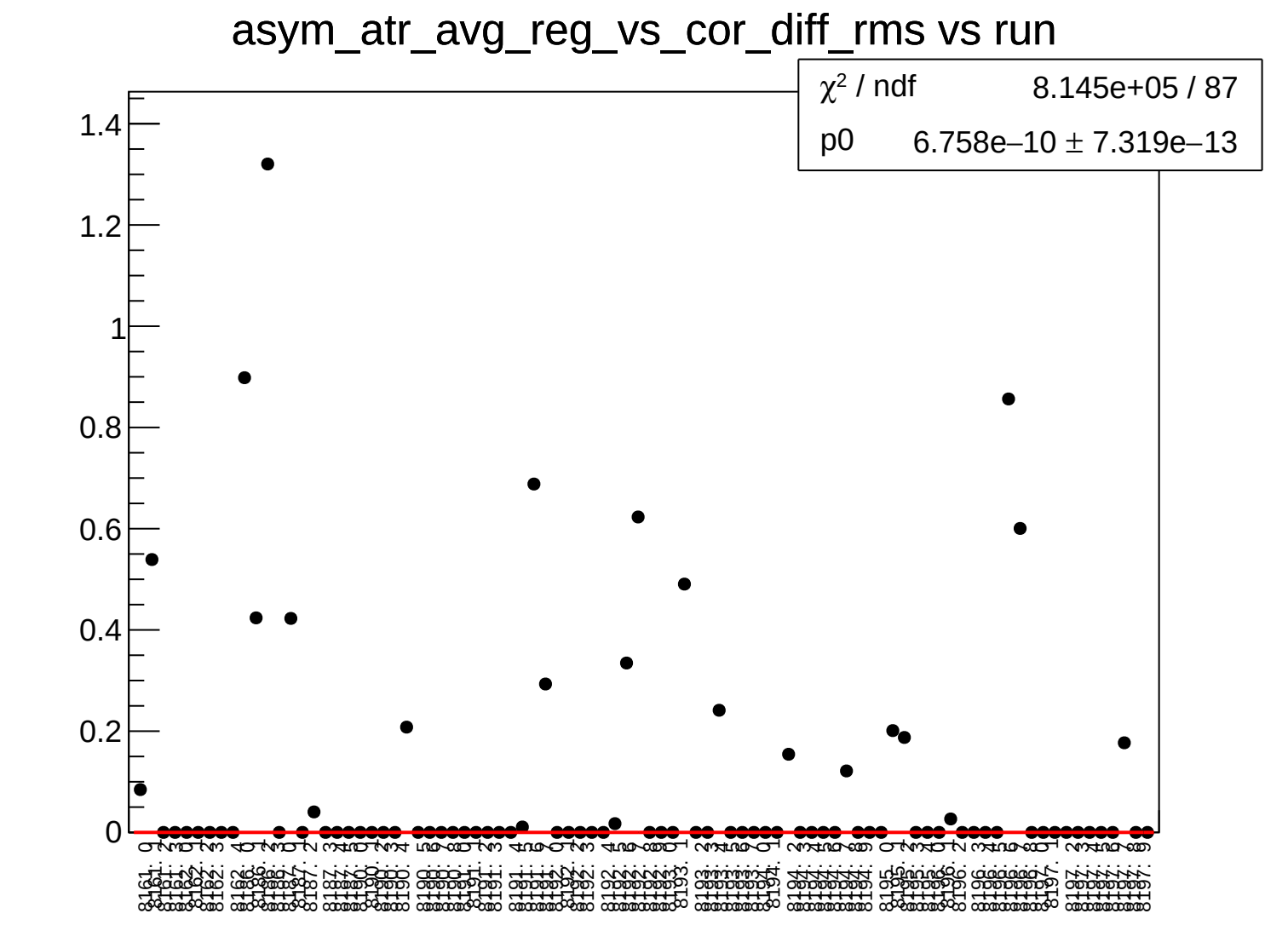

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4105 / 87
p0 8051 ± 6.243
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

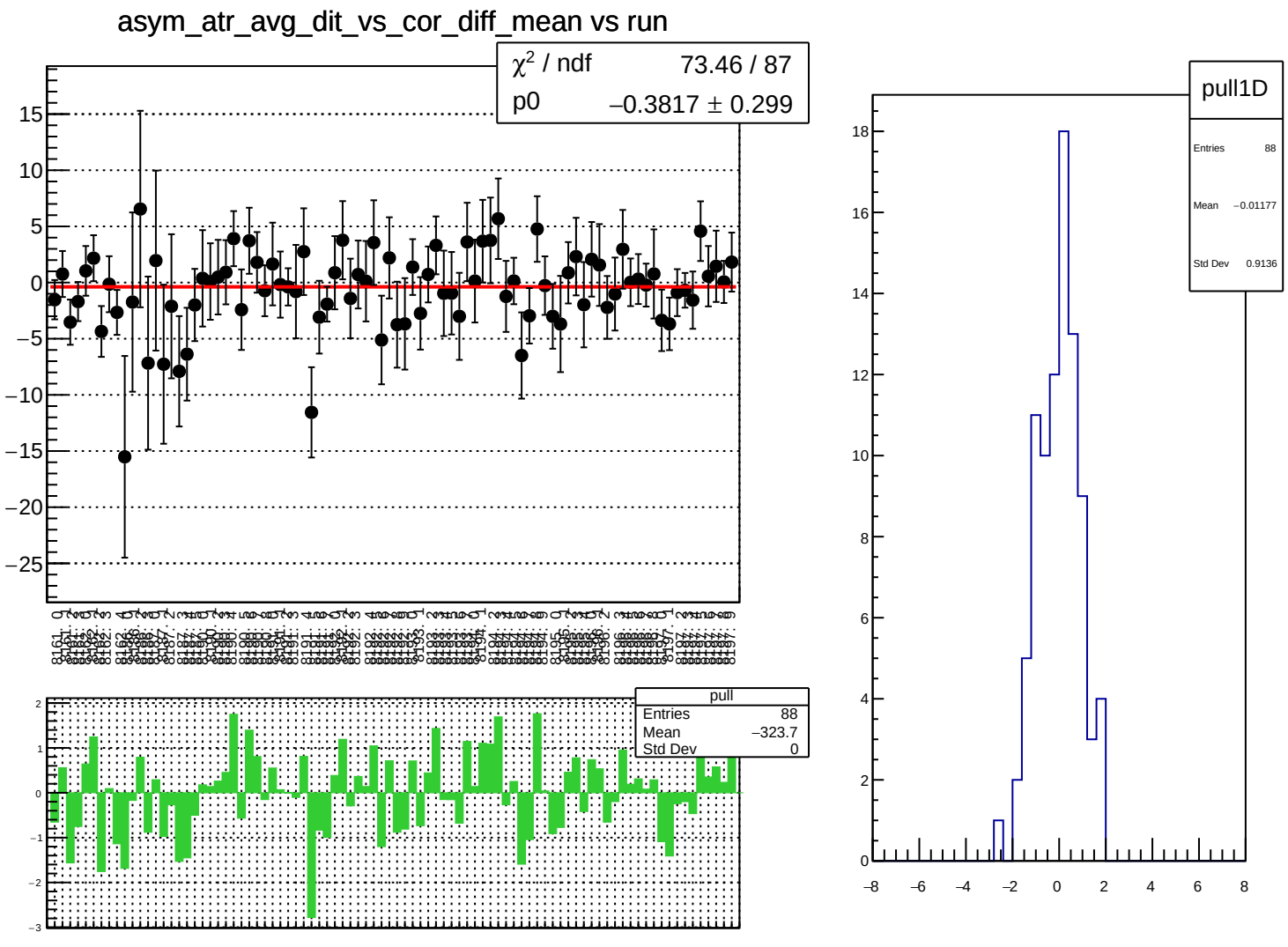

asym_atr_avg_mean vs run
×10^3
χ² / ndf 71.01 / 87
p0 −4319 ± 9325
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −204.2
Std Dev 0
2
1
0
−1
−2

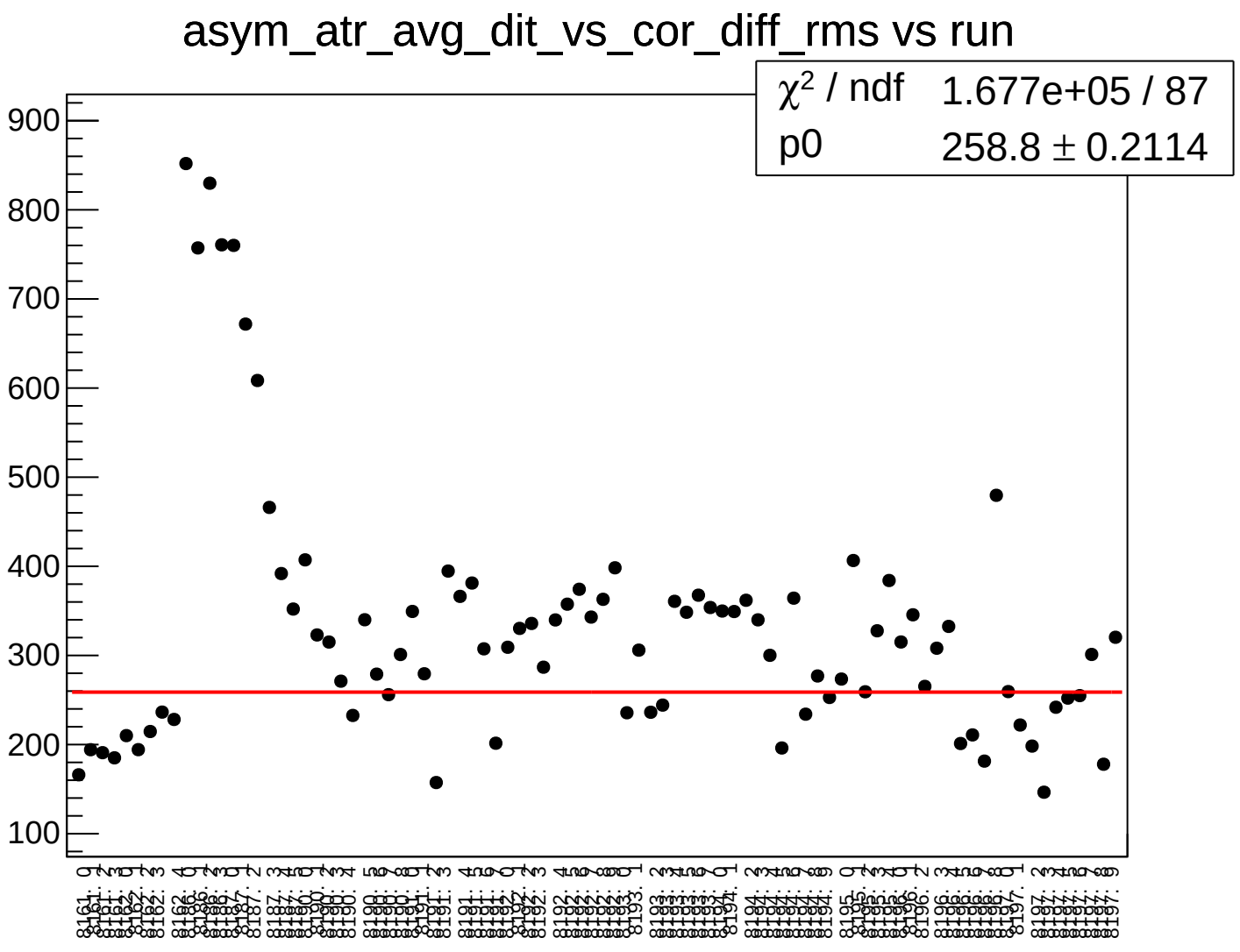

pull1D
Entries 88
Mean −0.005291
Std Dev 0.8983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

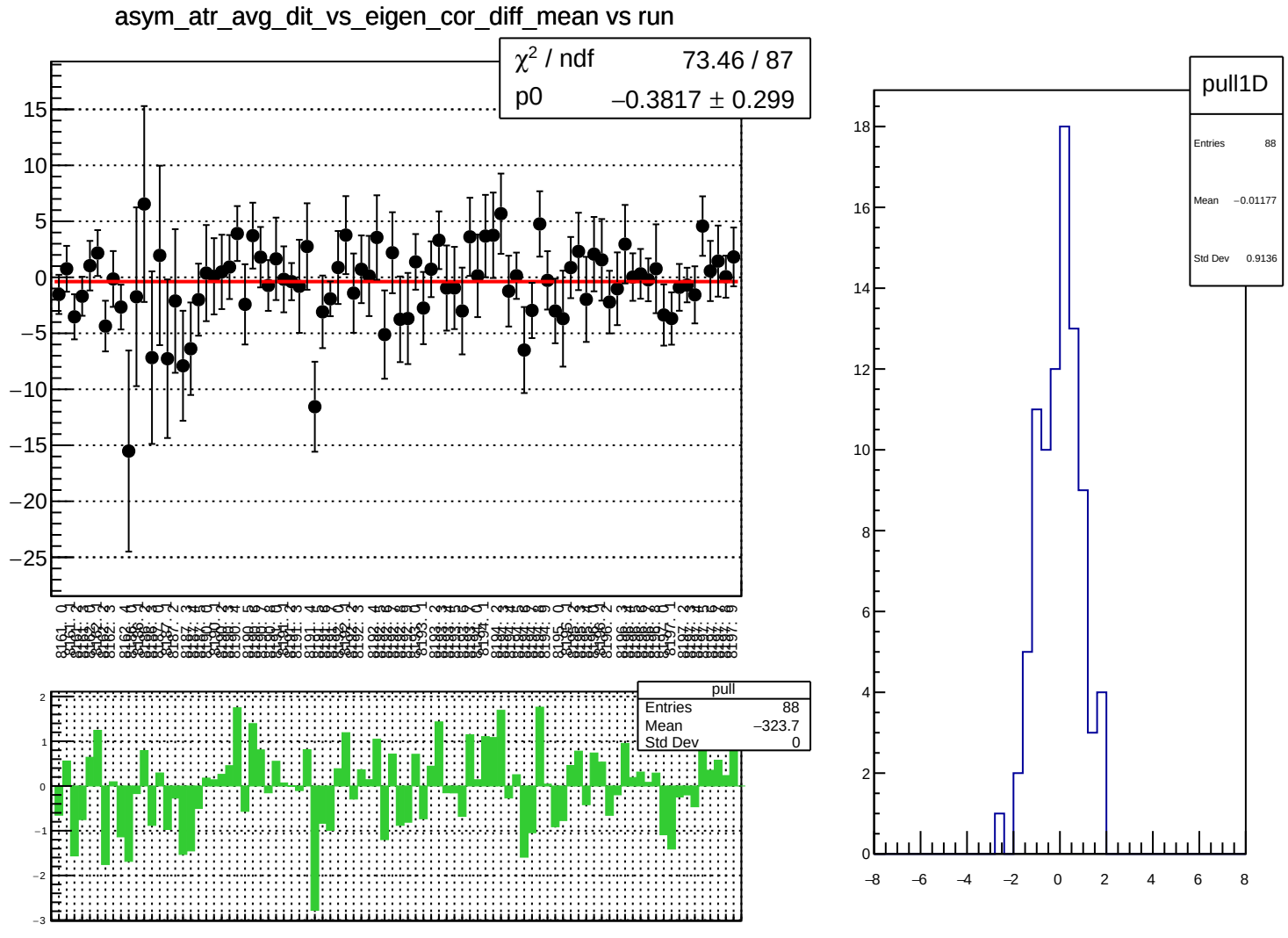

asym_atr_avg_rms vs run
χ² / ndf 4924 / 87
p0 8500 ± 6.594
9500
9000
8500
8000
7500

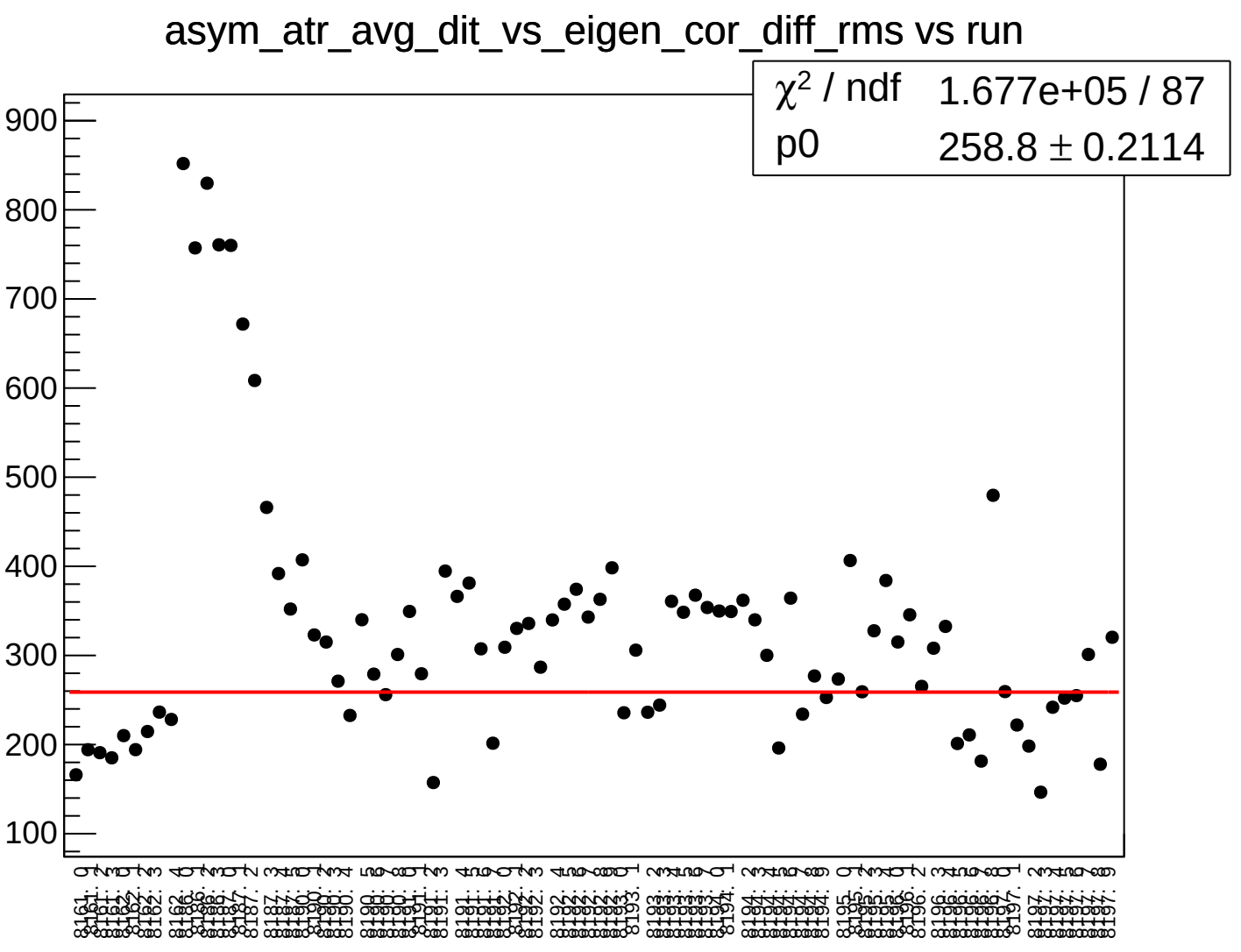

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.5 / 87
p0 −2.826e−13 ± 1.035e−12
pull
Entries 88
Mean 291.8
Std Dev 0
pull1D
Entries 88
Mean 0.01927
Std Dev 1.047

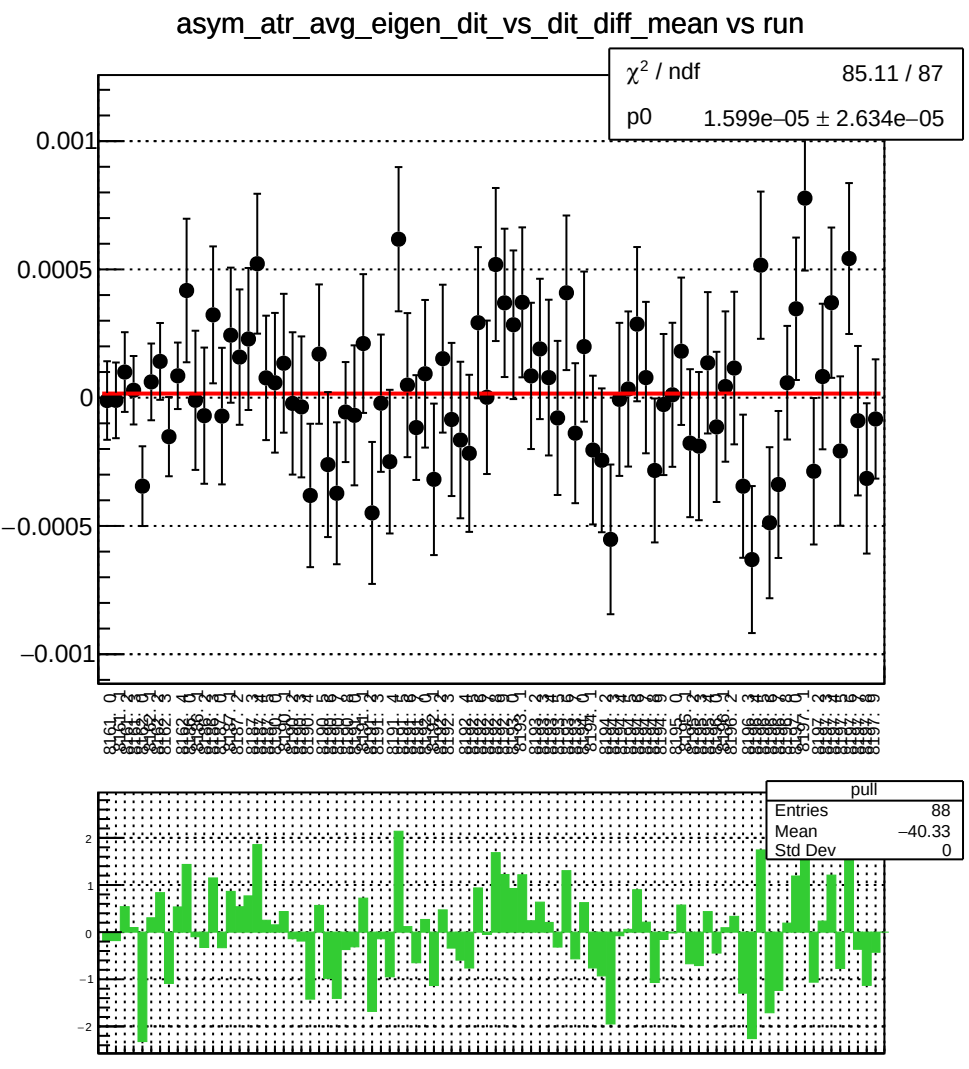

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.145e+05 / 87
p0 6.758e−10 ± 7.319e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

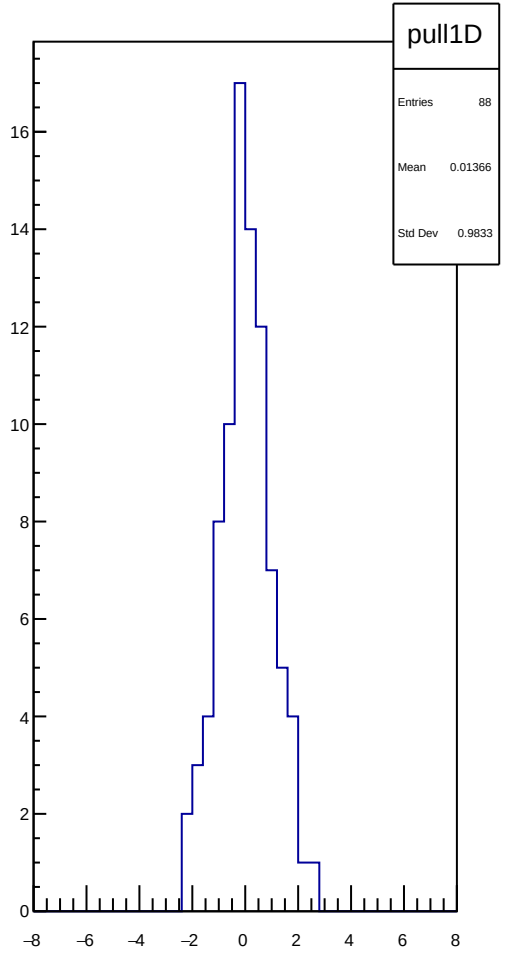

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.46 / 87
p0 −0.3817 ± 0.299
pull
Entries 88
Mean −323.7
Std Dev 0
pull1D
Entries 88
Mean −0.01177
Std Dev 0.9136

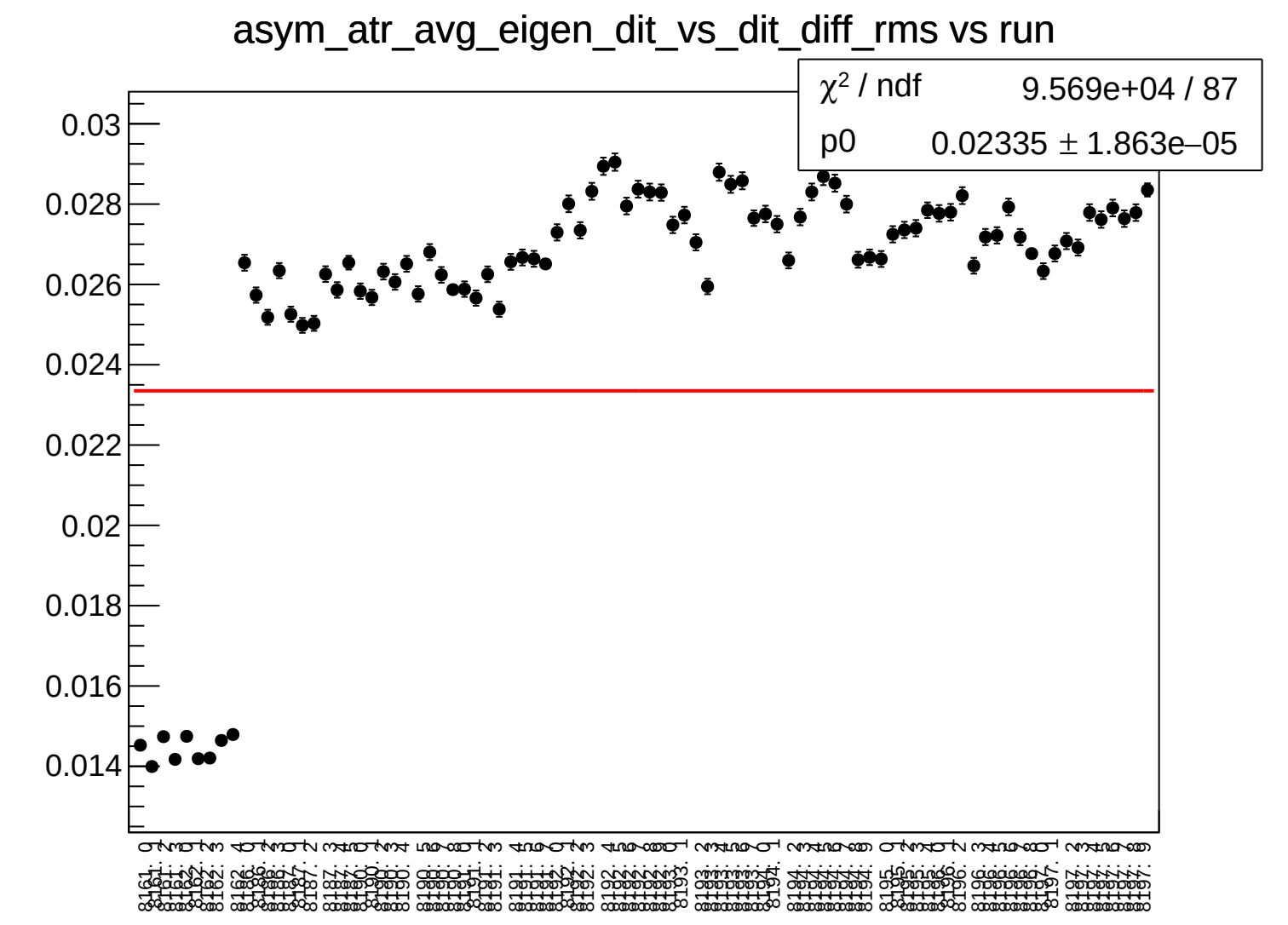

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.677e+05 / 87
p0 258.8 ± 0.2114
900
800
700
600
500
400
300
200
100

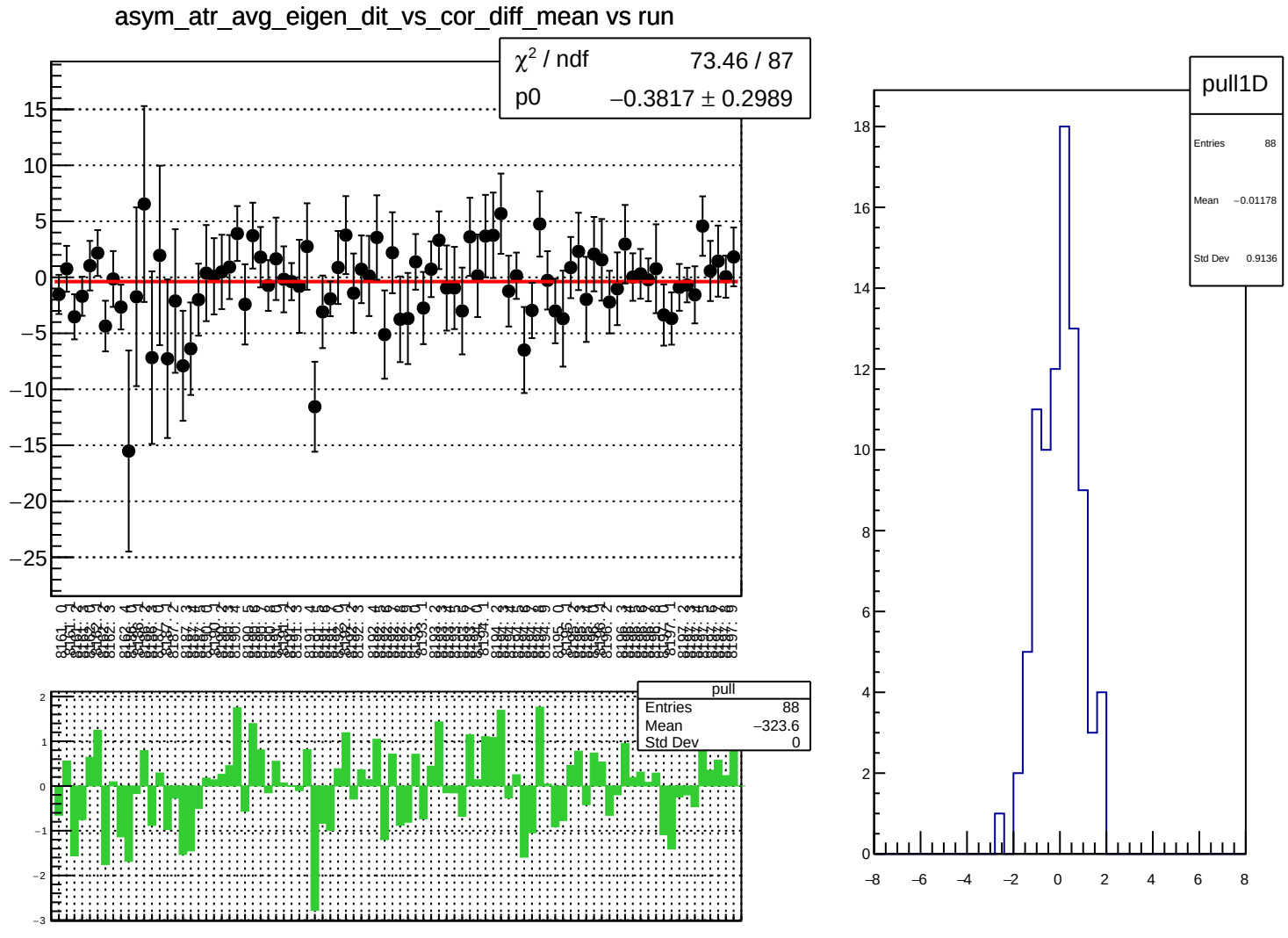

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.46 / 87
p0 −0.3817 ± 0.299
pull
Entries 88
Mean −323.7
Std Dev 0
pull1D
Entries 88
Mean −0.01177
Std Dev 0.9136

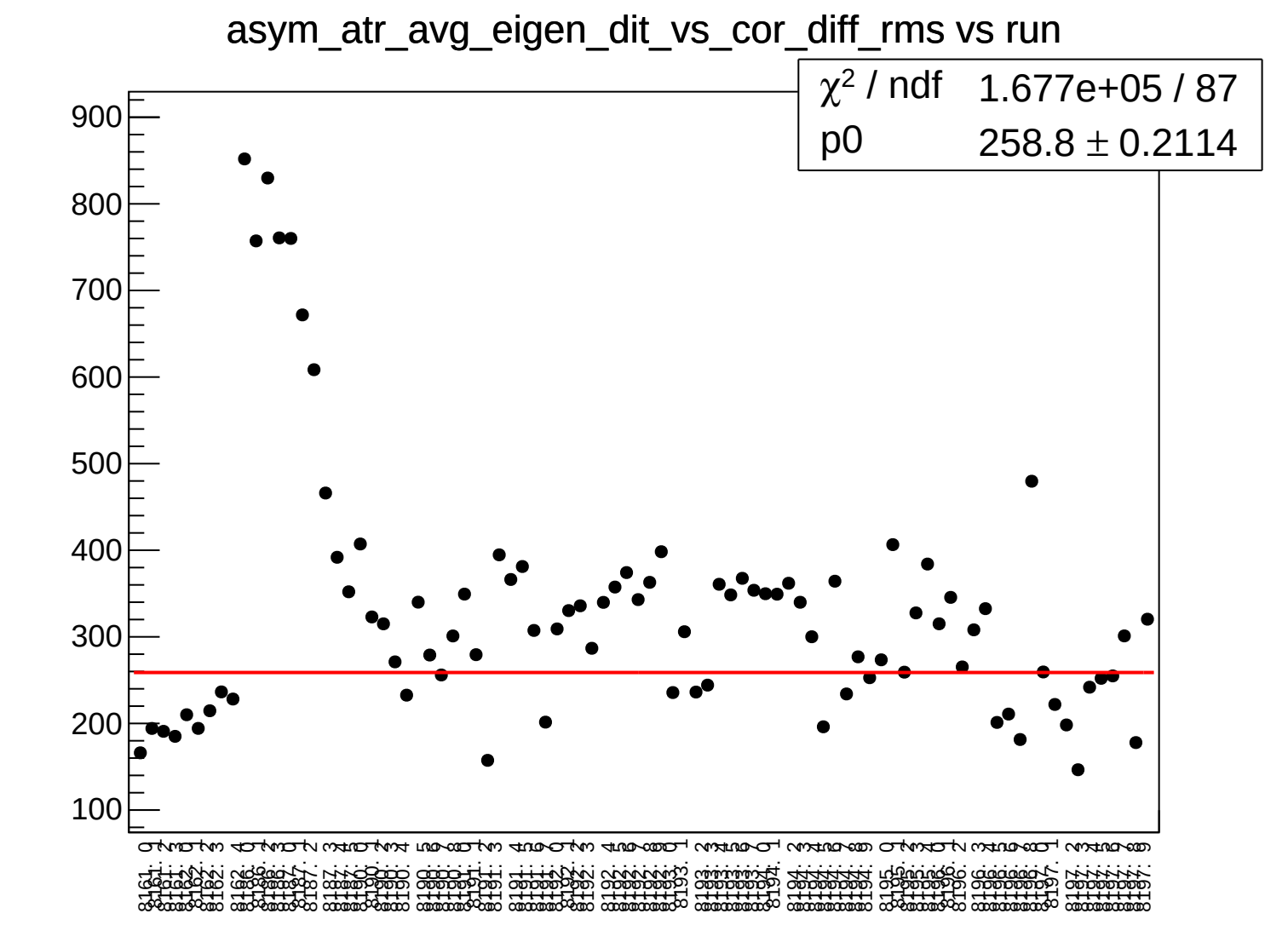

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.677e+05 / 87
p0 258.8 ± 0.2114
900
800
700
600
500
400
300
200
100

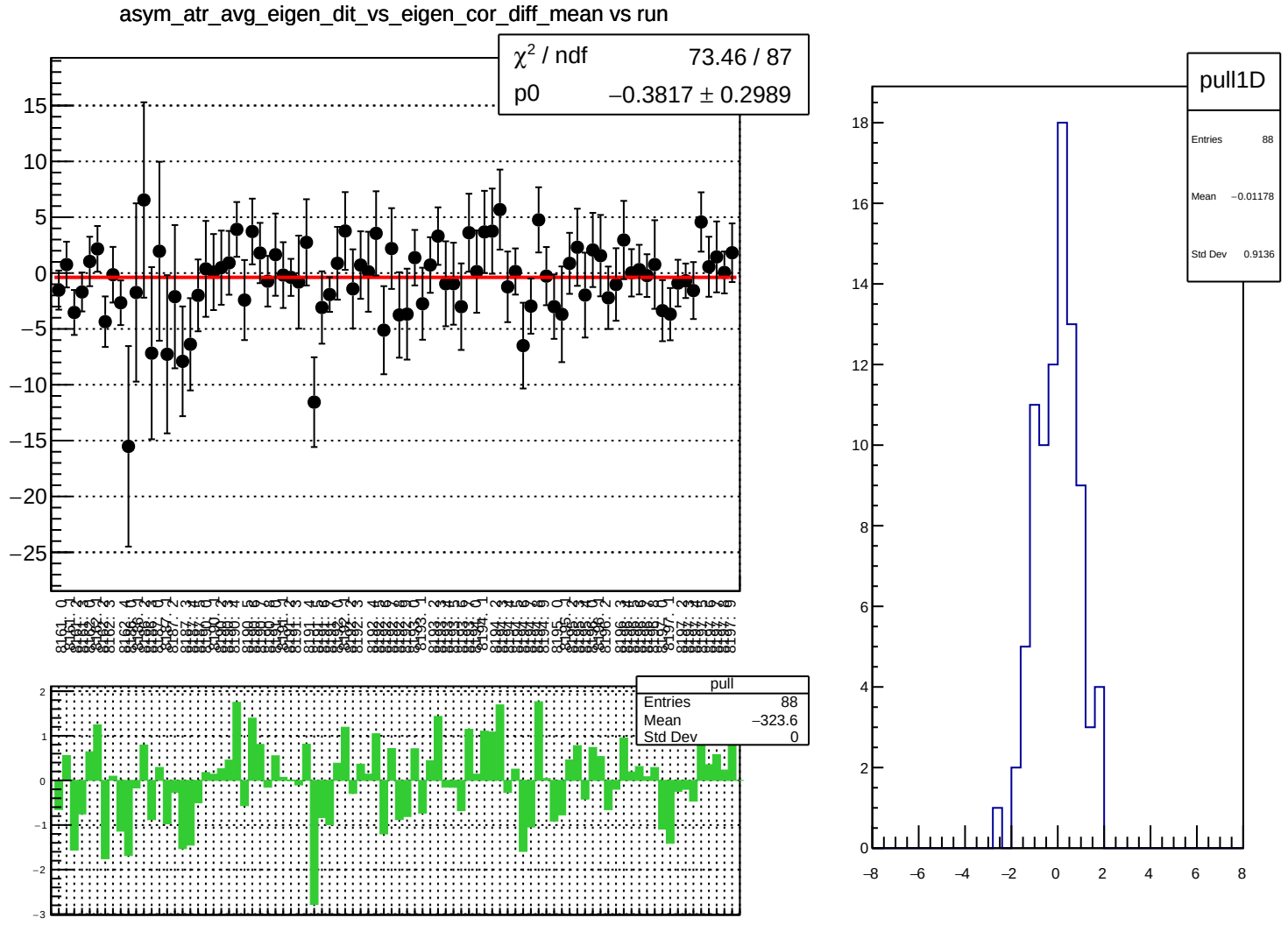

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.11 / 87
p0 1.599e−05 ± 2.634e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean −40.33
Std Dev 0

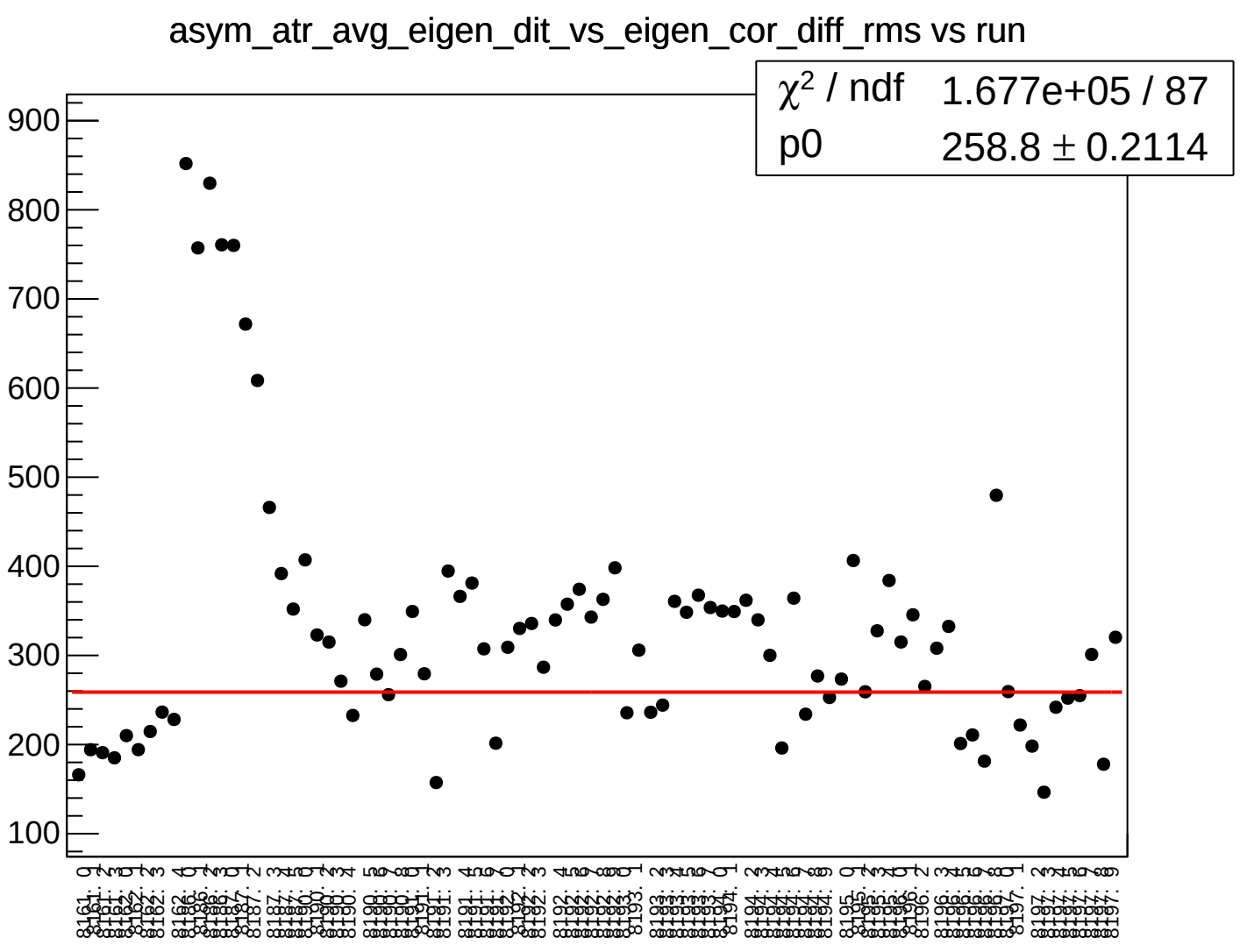

pull1D
Entries 88
Mean 0.01366
Std Dev 0.9833
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

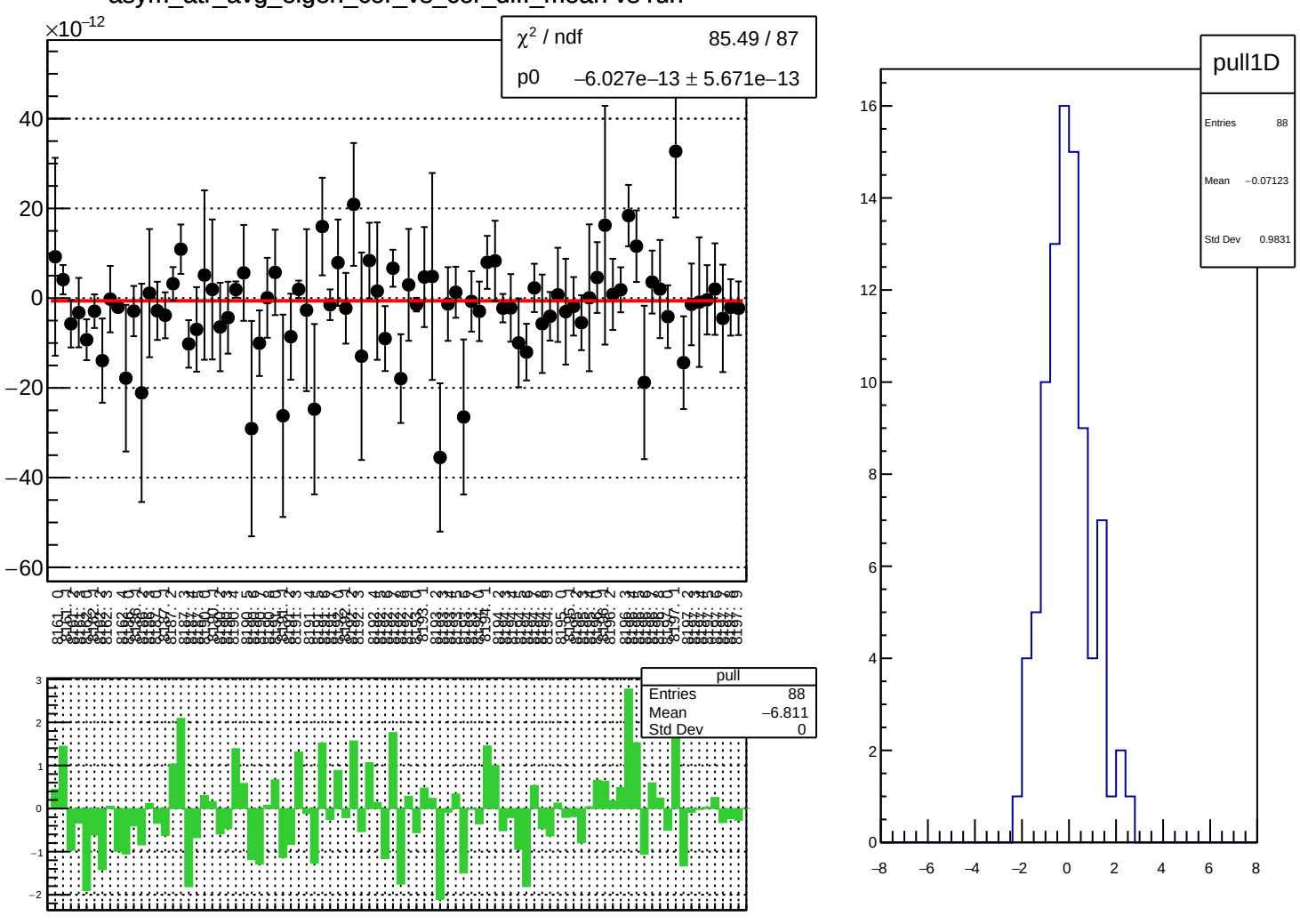

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.569e+04 / 87
p0 0.02335 ± 1.863e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

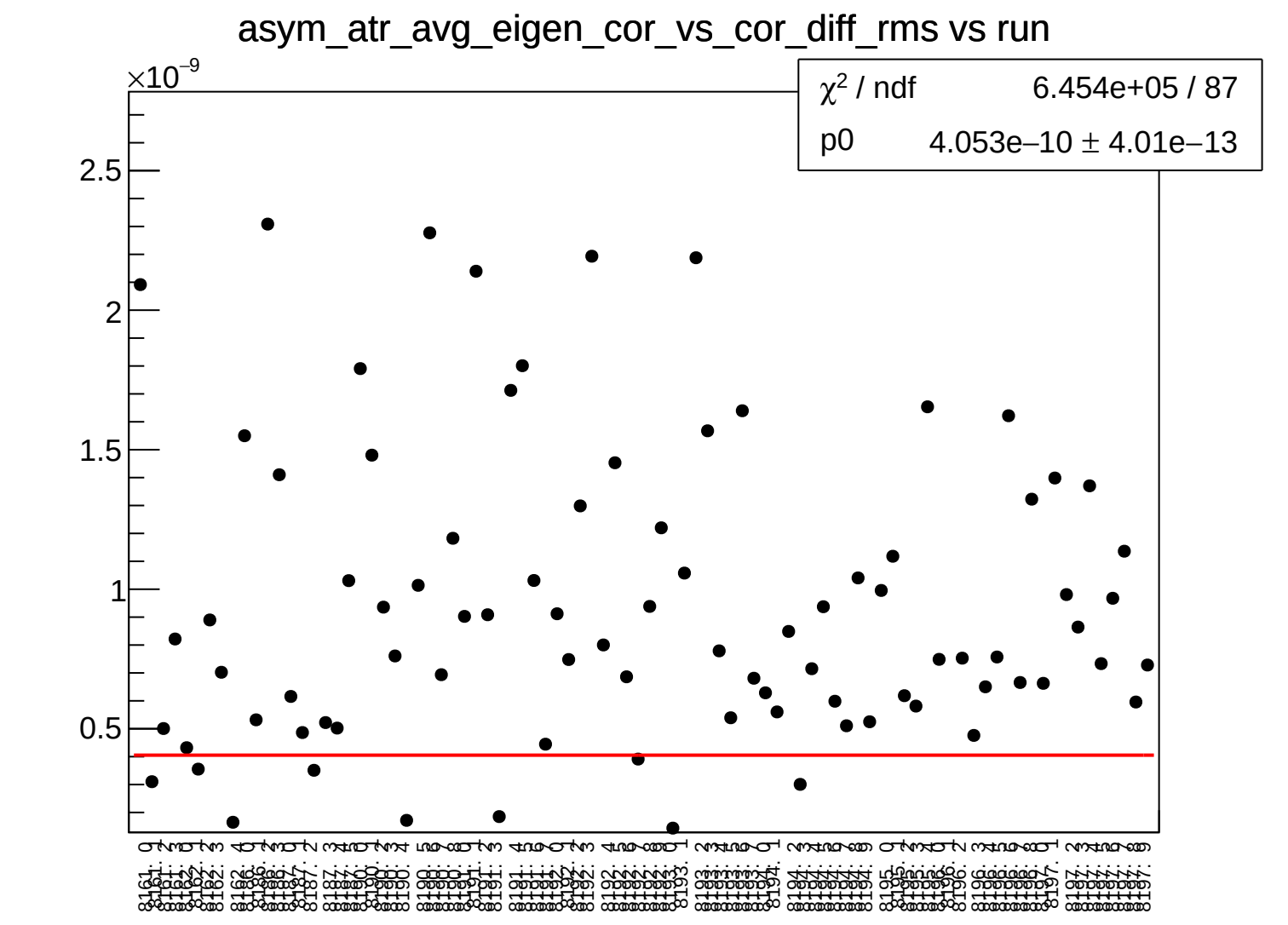

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.46 / 87
p0 −0.3817 ± 0.2989
pull
Entries 88
Mean −323.6
Std Dev 0
pull1D
Entries 88
Mean −0.01178
Std Dev 0.9136

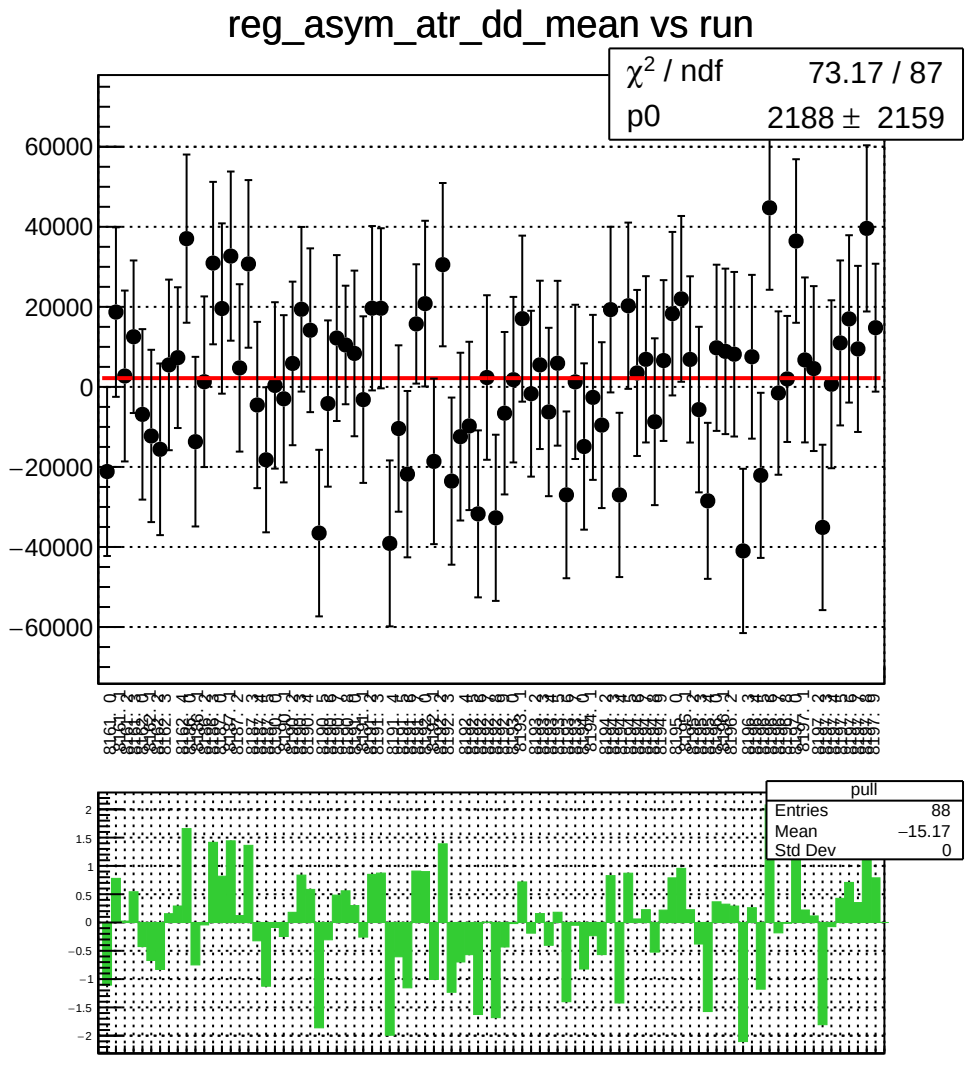

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.677e+05 / 87
p0 258.8 ± 0.2114
900
800
700
600
500
400
300
200
100

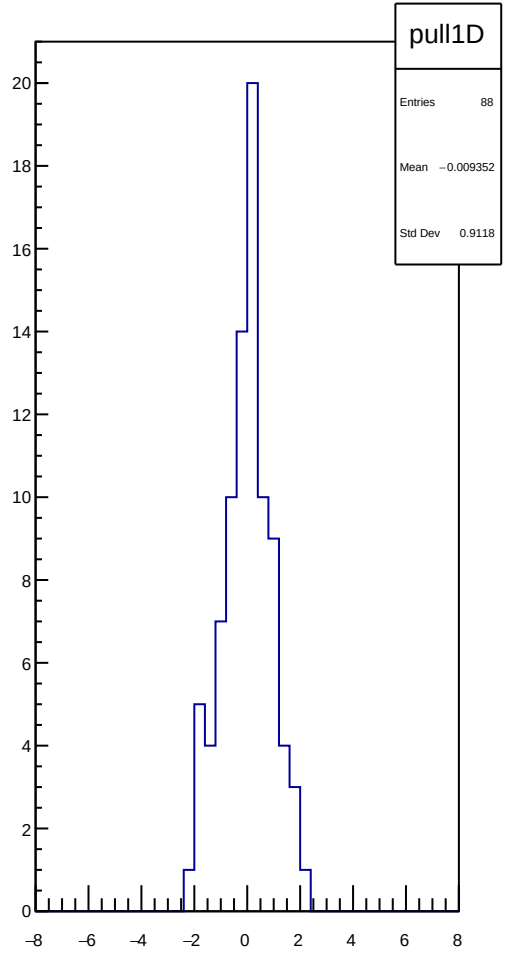

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.46 / 87
p0 −0.3817 ± 0.2989
pull
Entries 88
Mean −323.6
Std Dev 0
pull1D
Entries 88
Mean −0.01178
Std Dev 0.9136

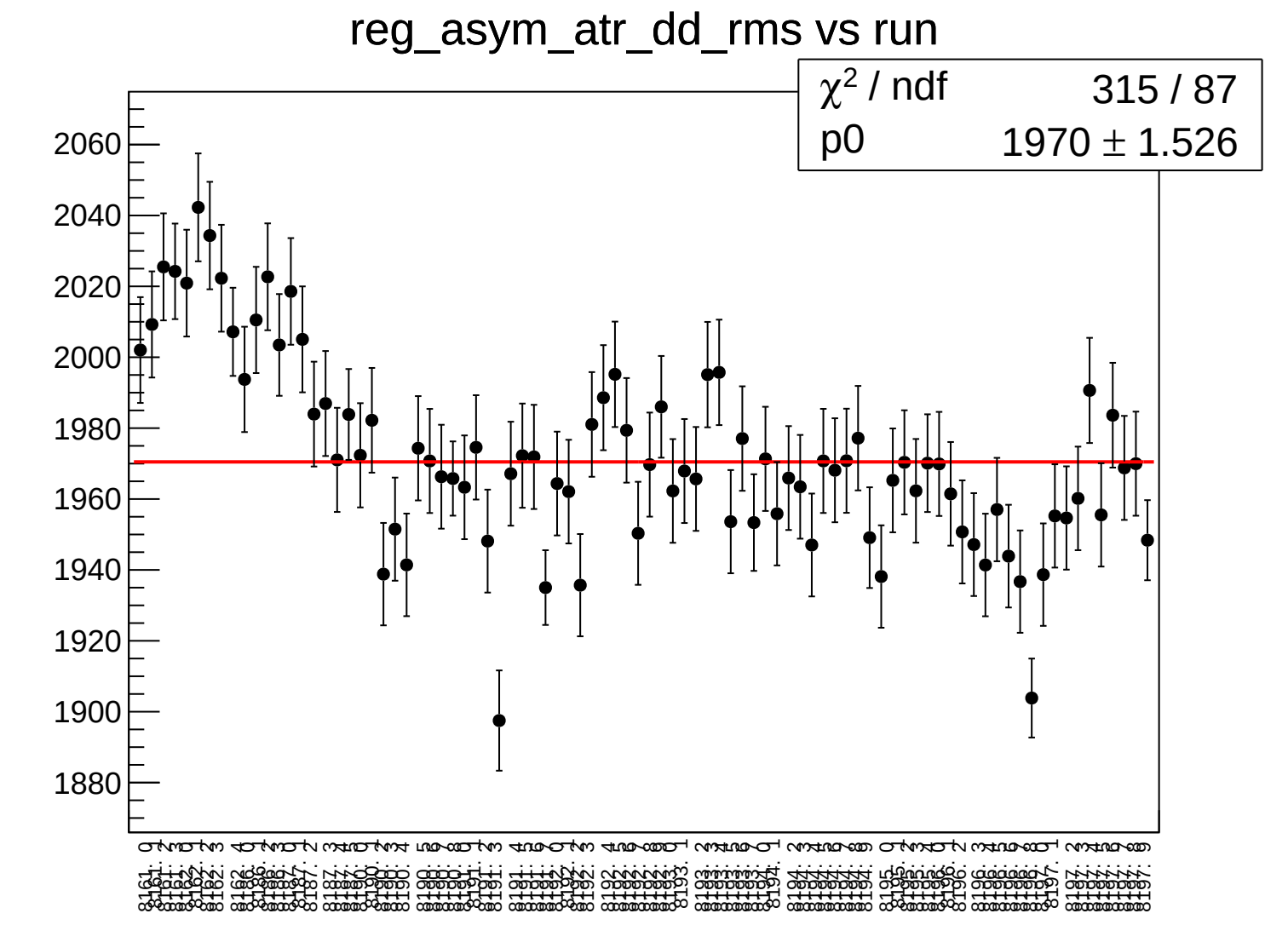

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.677e+05 / 87
p0 258.8 ± 0.2114
900
800
700
600
500
400
300
200
100

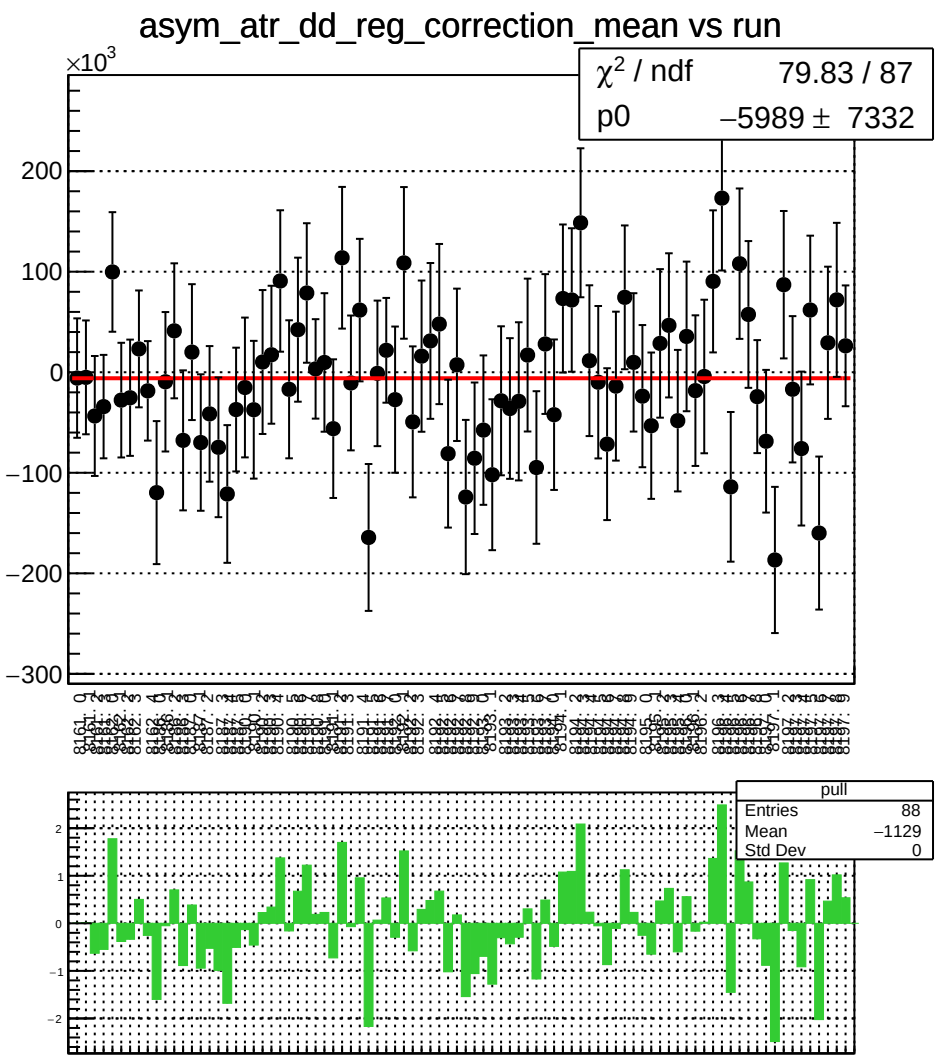

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.49 / 87
p0 −6.027e−13 ± 5.671e−13
40
20
0
−20
−40
−60
pull
Entries 88
Mean −6.811
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.07123
Std Dev 0.9831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

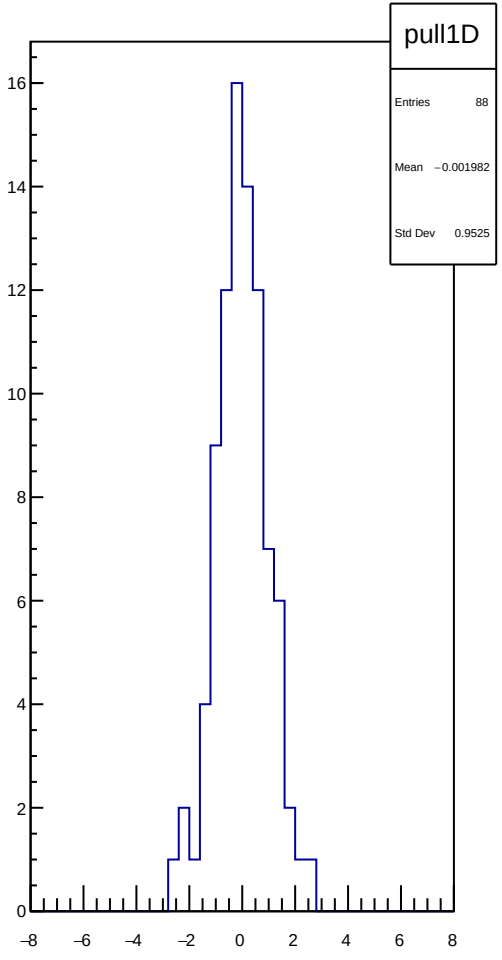

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.454e+05 / 87
p0 4.053e−10 ± 4.01e−13
2.5
2
1.5
1
0.5


reg_asym_atr_dd_mean vs run
χ² / ndf 73.17 / 87
p0 2188 ± 2159
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −15.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.009352
Std Dev 0.9118
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_rms vs run
χ² / ndf 315 / 87
p0 1970 ± 1.526
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880


asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.83 / 87
p0 −5989 ± 7332
200
100
0
−100
−200
−300
pull
Entries 88
Mean −1129
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.001982
Std Dev 0.9525
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10
8
6
4
2
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−8
−6
−4
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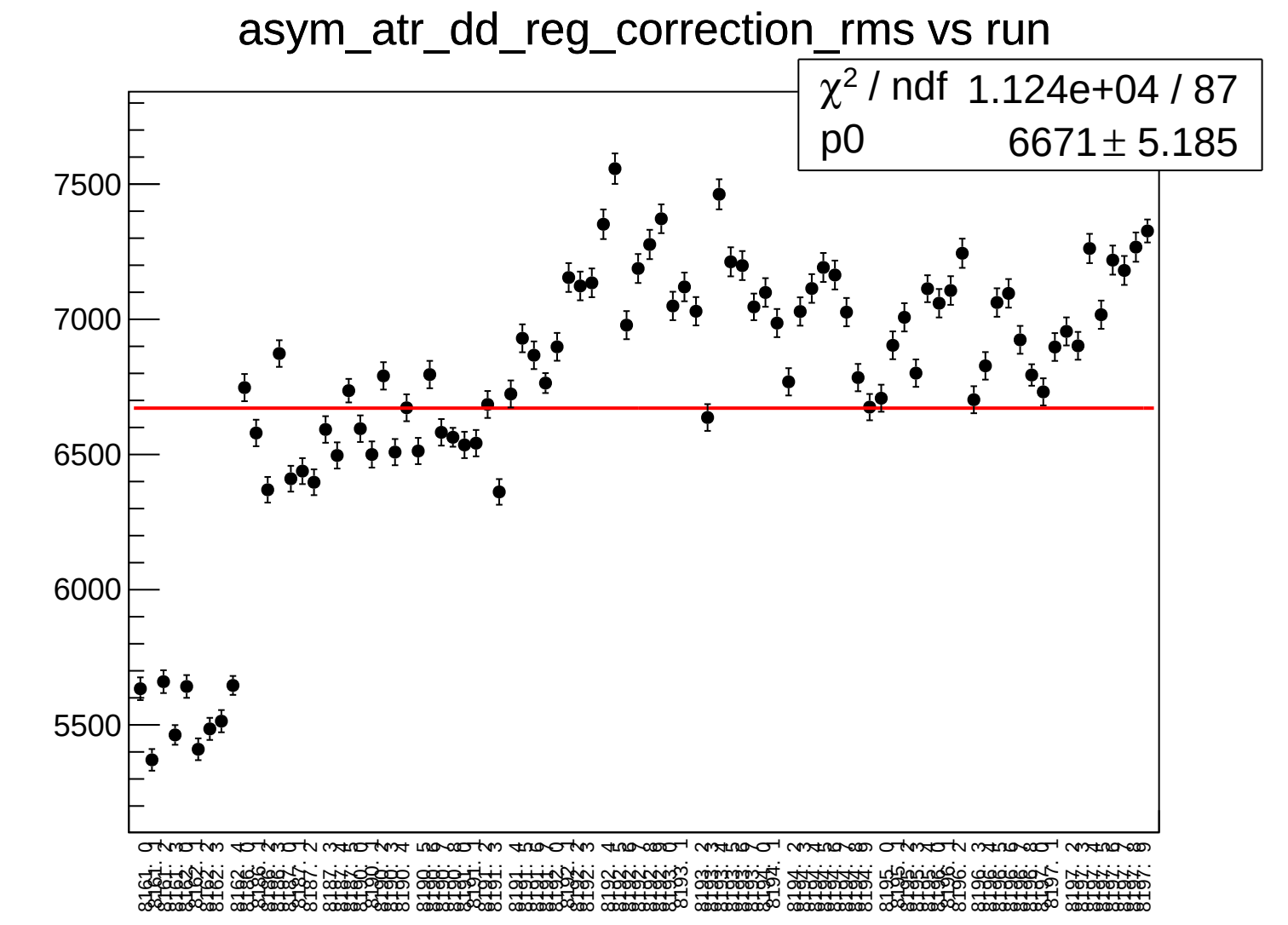
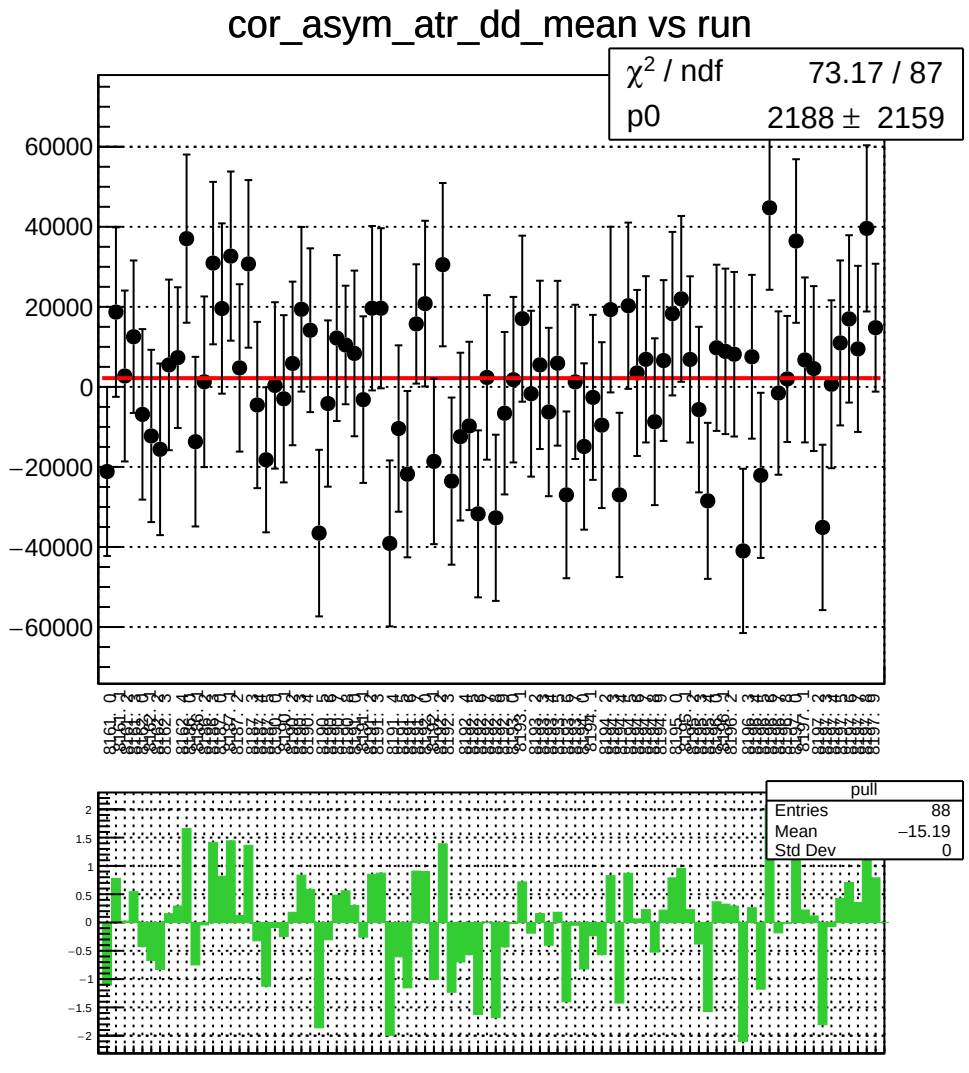
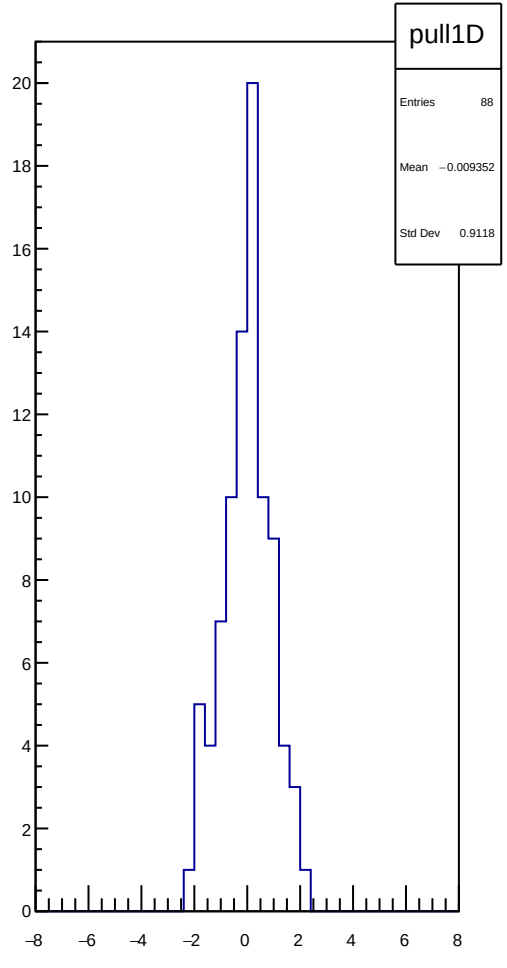
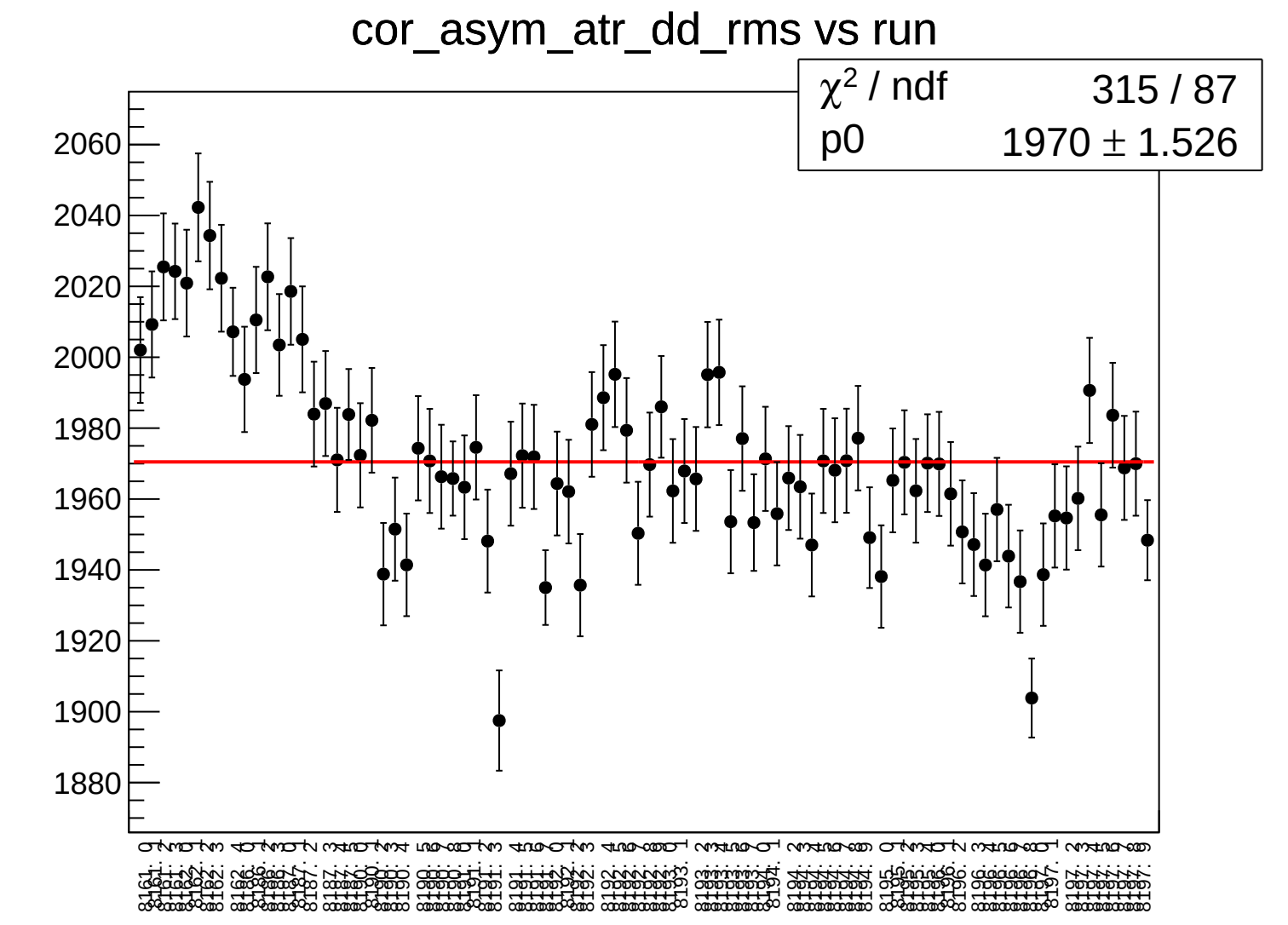
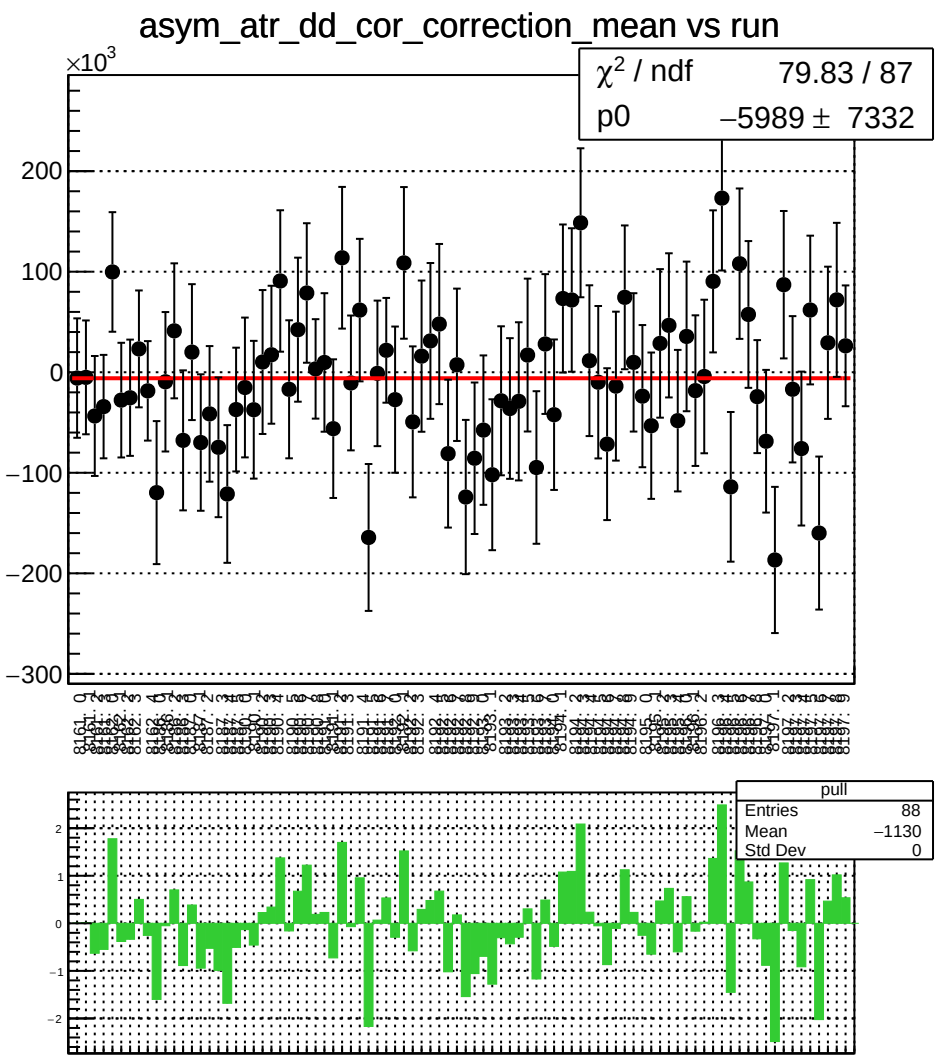
2
4
6
8

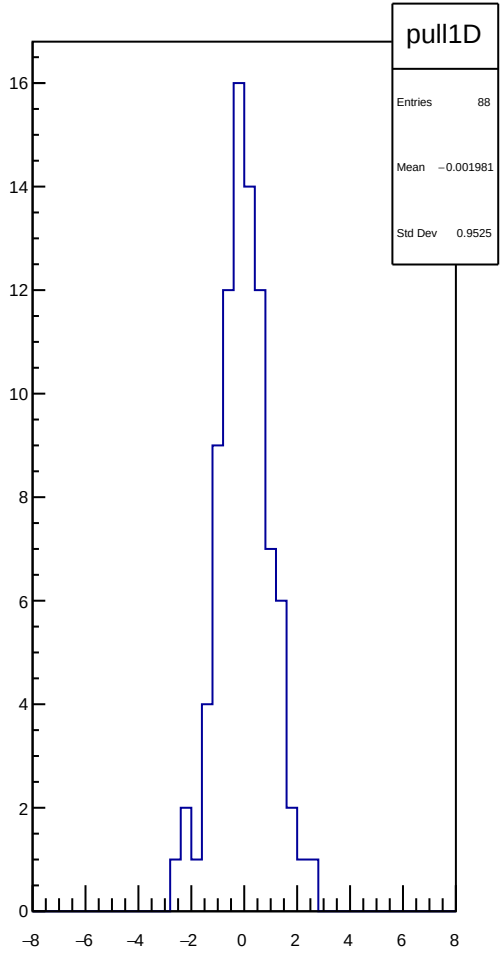

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.124e+04 / 87
p0 6671 ± 5.185
7500
7000
6500
6000
5500

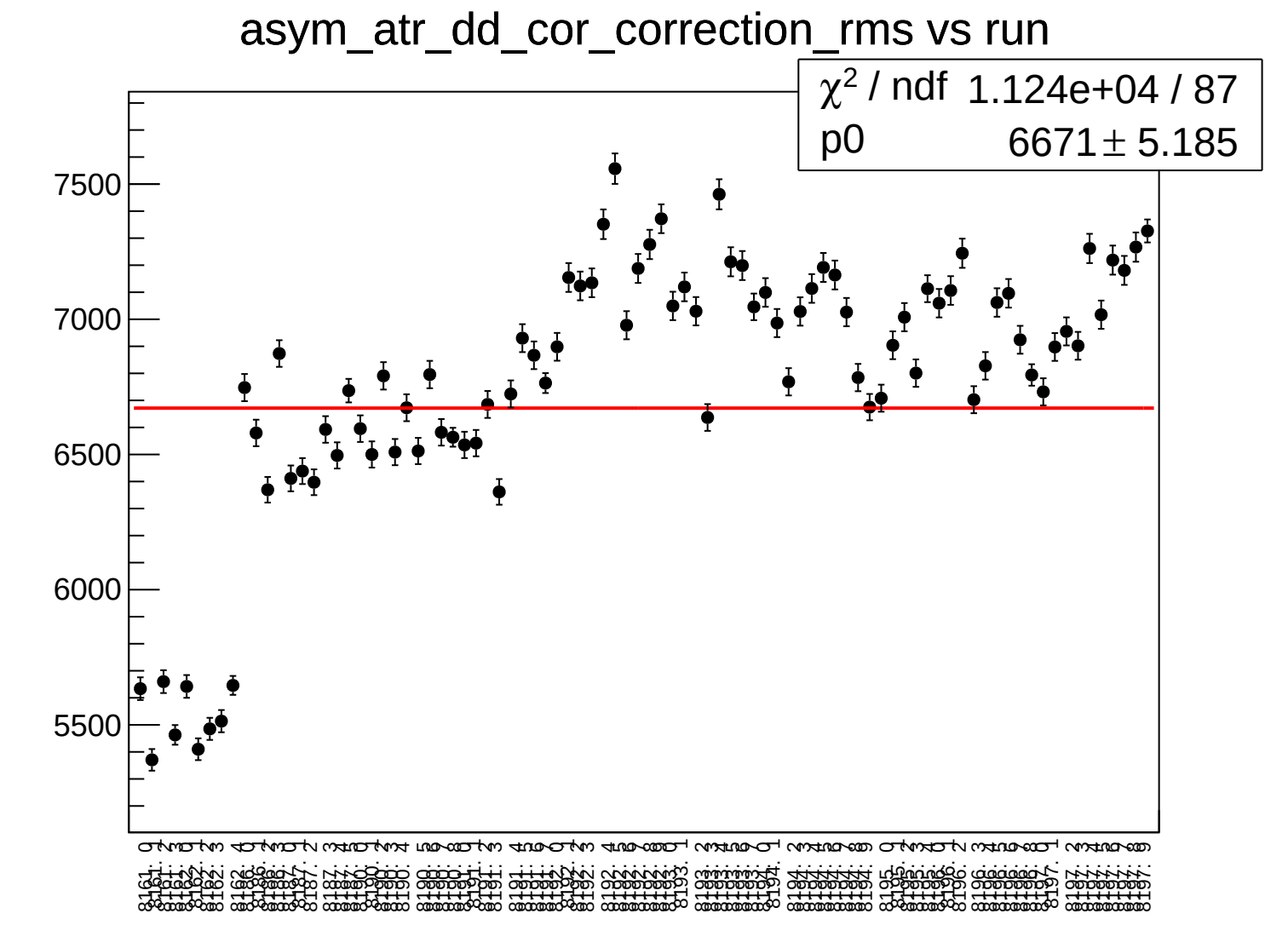

cor_asym_atr_dd_mean vs run
χ² / ndf 73.17 / 87
p0 2188 ± 2159
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −15.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

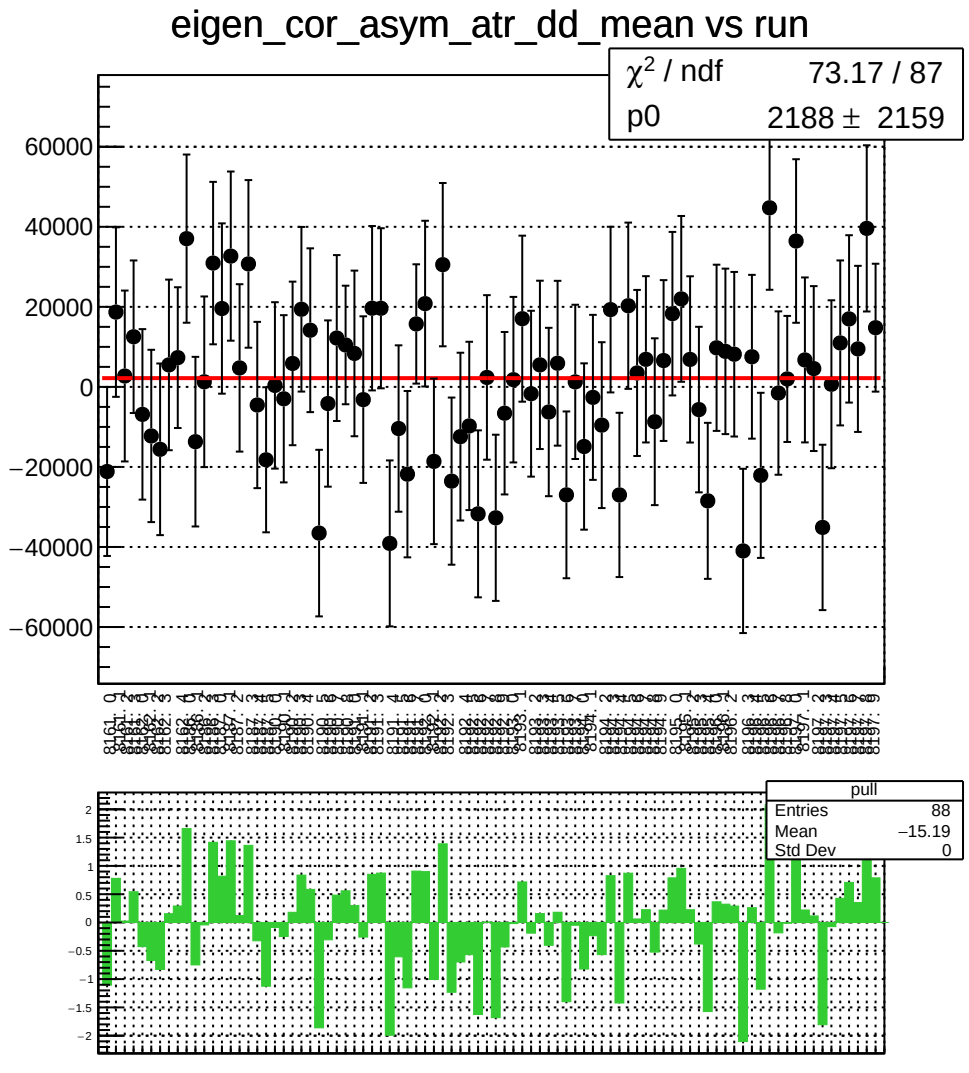

pull1D
Entries 88
Mean −0.009352
Std Dev 0.9118
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

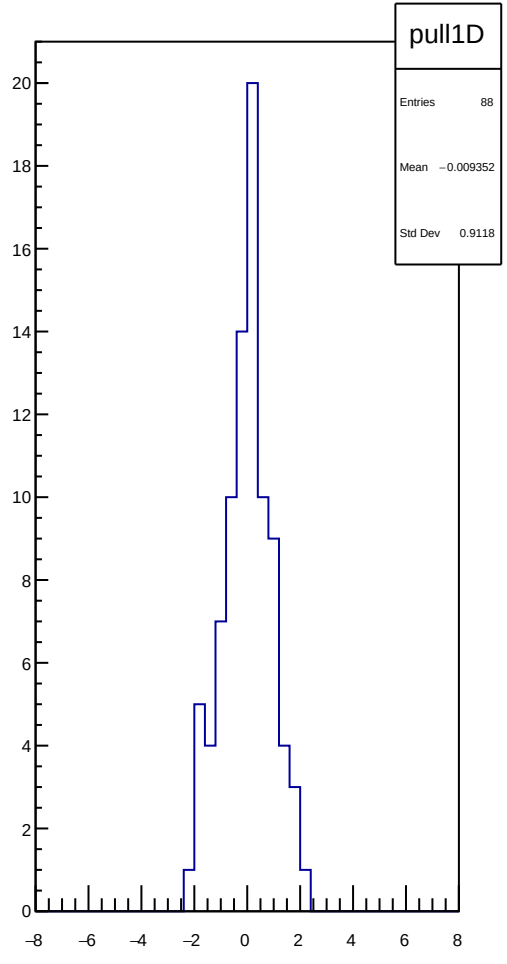

cor_asym_atr_dd_rms vs run
χ^2 / ndf 315 / 87
p0 1970 ± 1.526
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

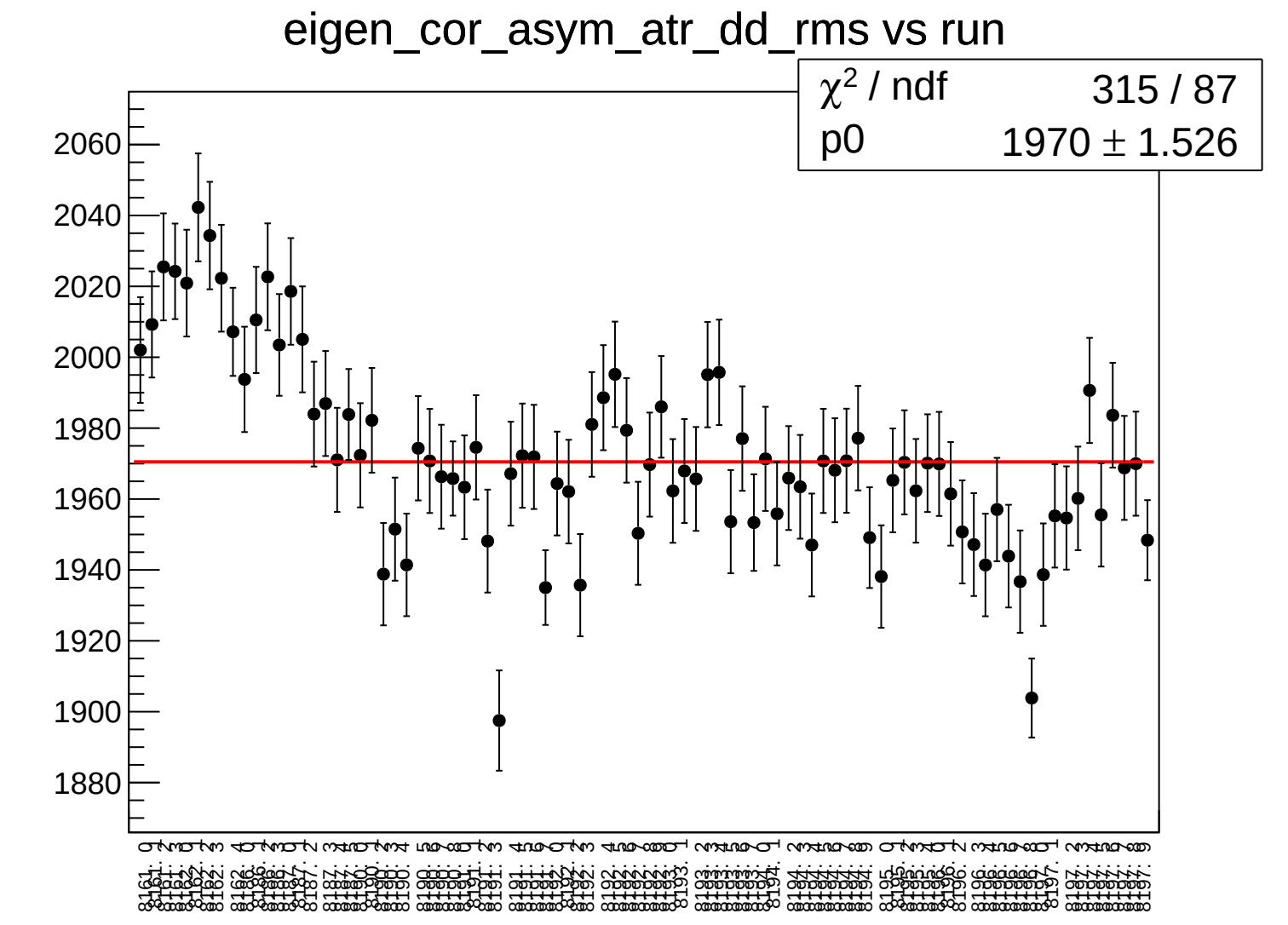

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 79.83 / 87
p0 −5989 ± 7332
×10³
200
100
0
−100
−200
−300
pull
Entries 88
Mean −1130
Std Dev 0
2
1
0
−1
−2

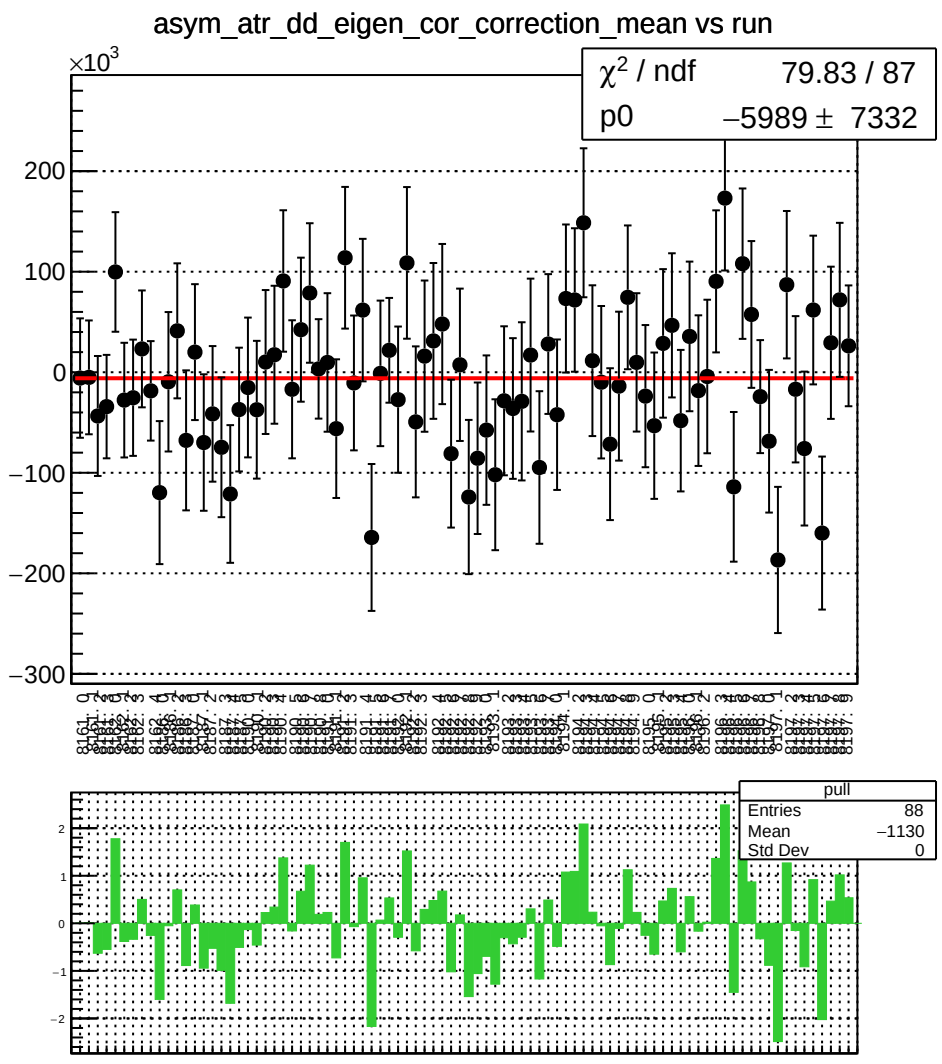

pull1D
Entries 88
Mean −0.001981
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

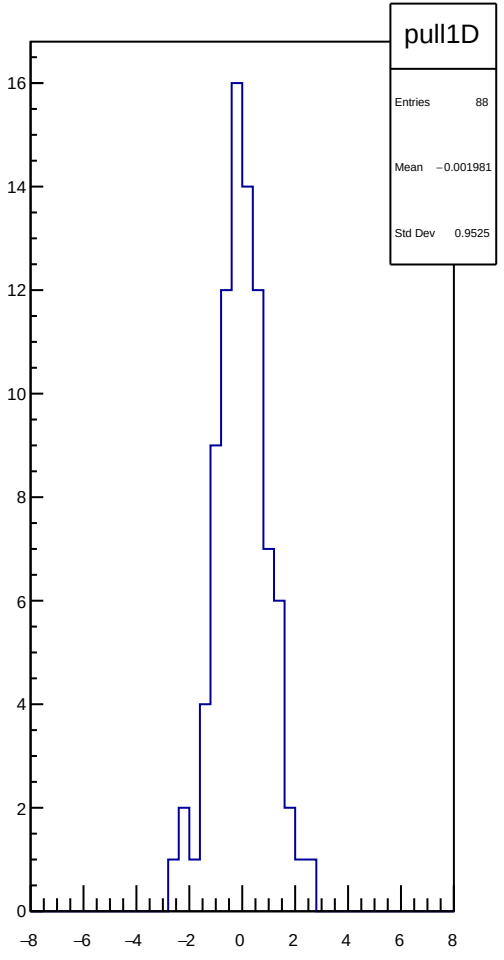

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.124e+04 / 87
p0 6671 ± 5.185
7500
7000
6500
6000
5500

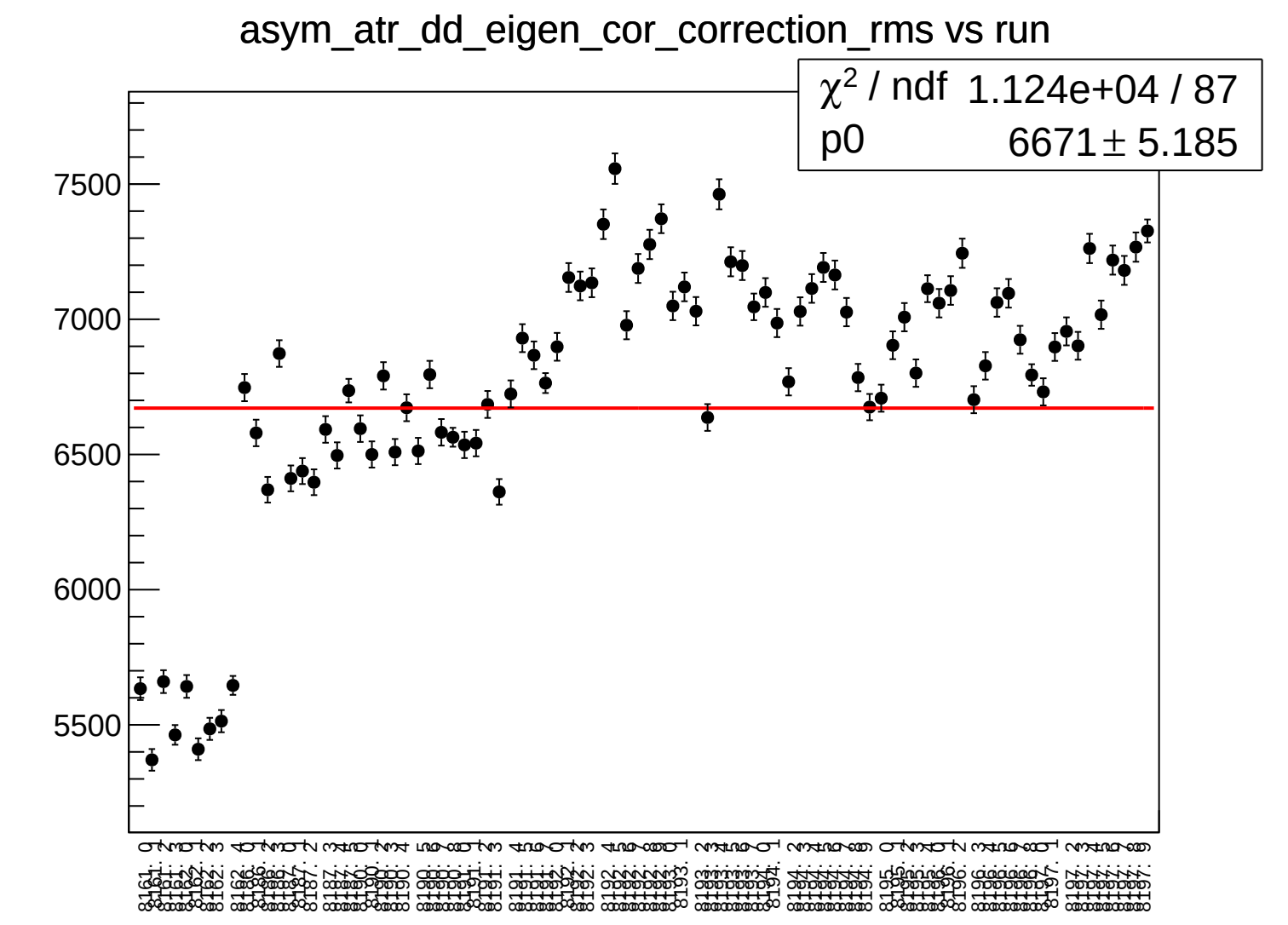

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 73.17 / 87
p0 2188 ± 2159
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −15.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

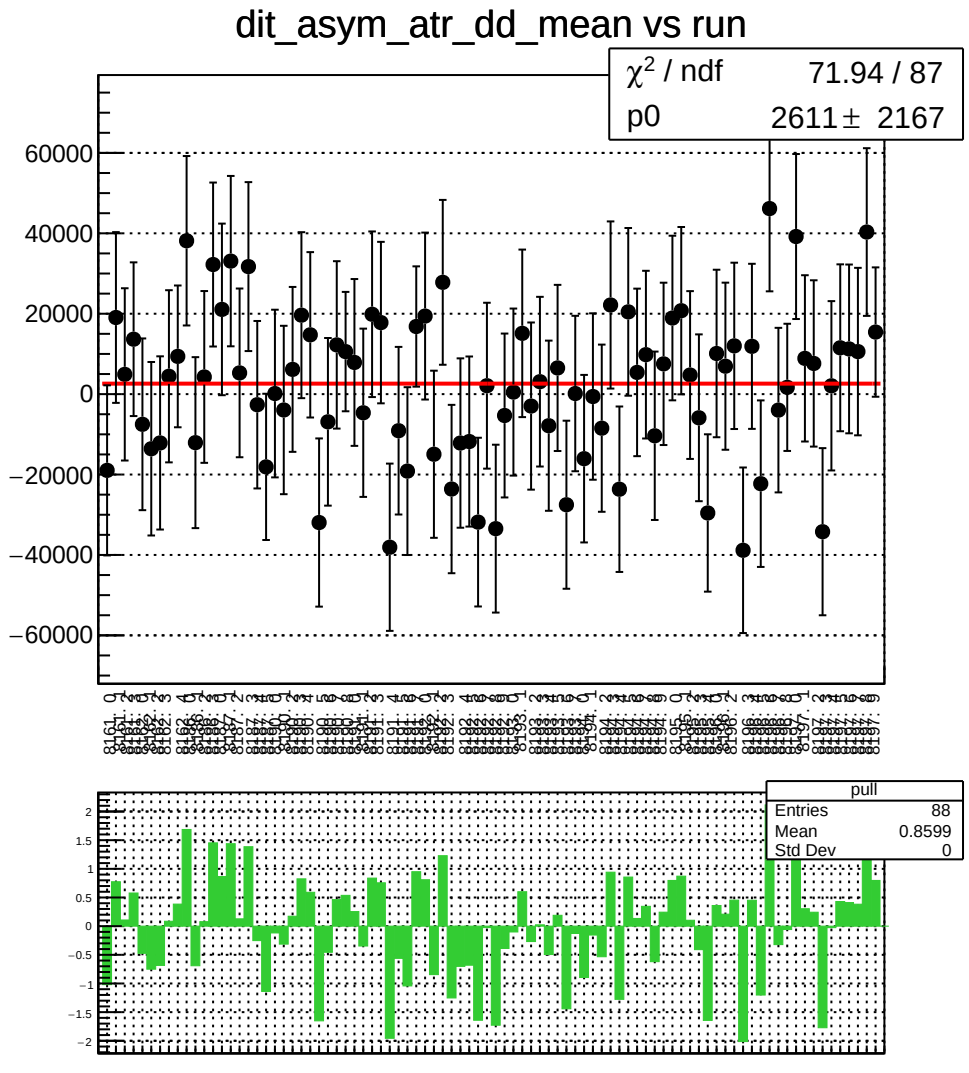

pull1D
Entries 88
Mean −0.009352
Std Dev 0.9118
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

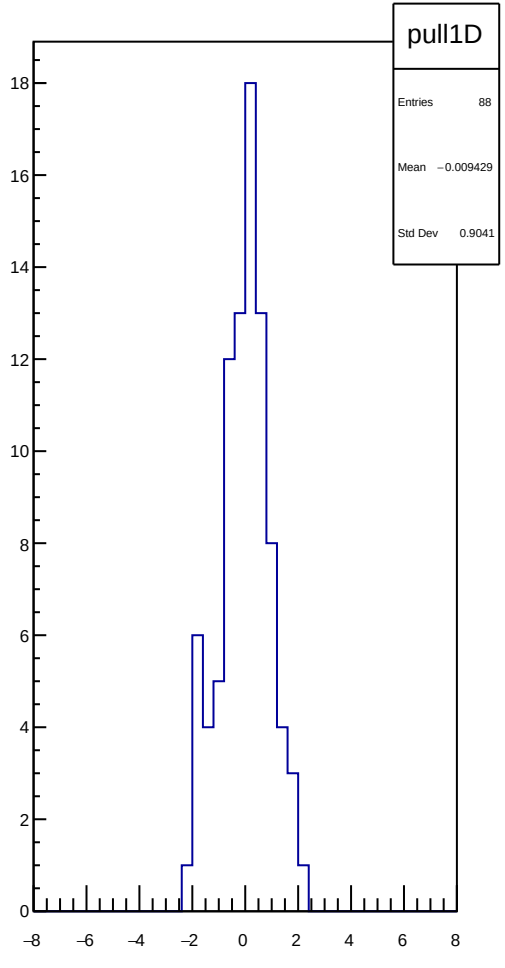

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 315 / 87
p0 1970 ± 1.526
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

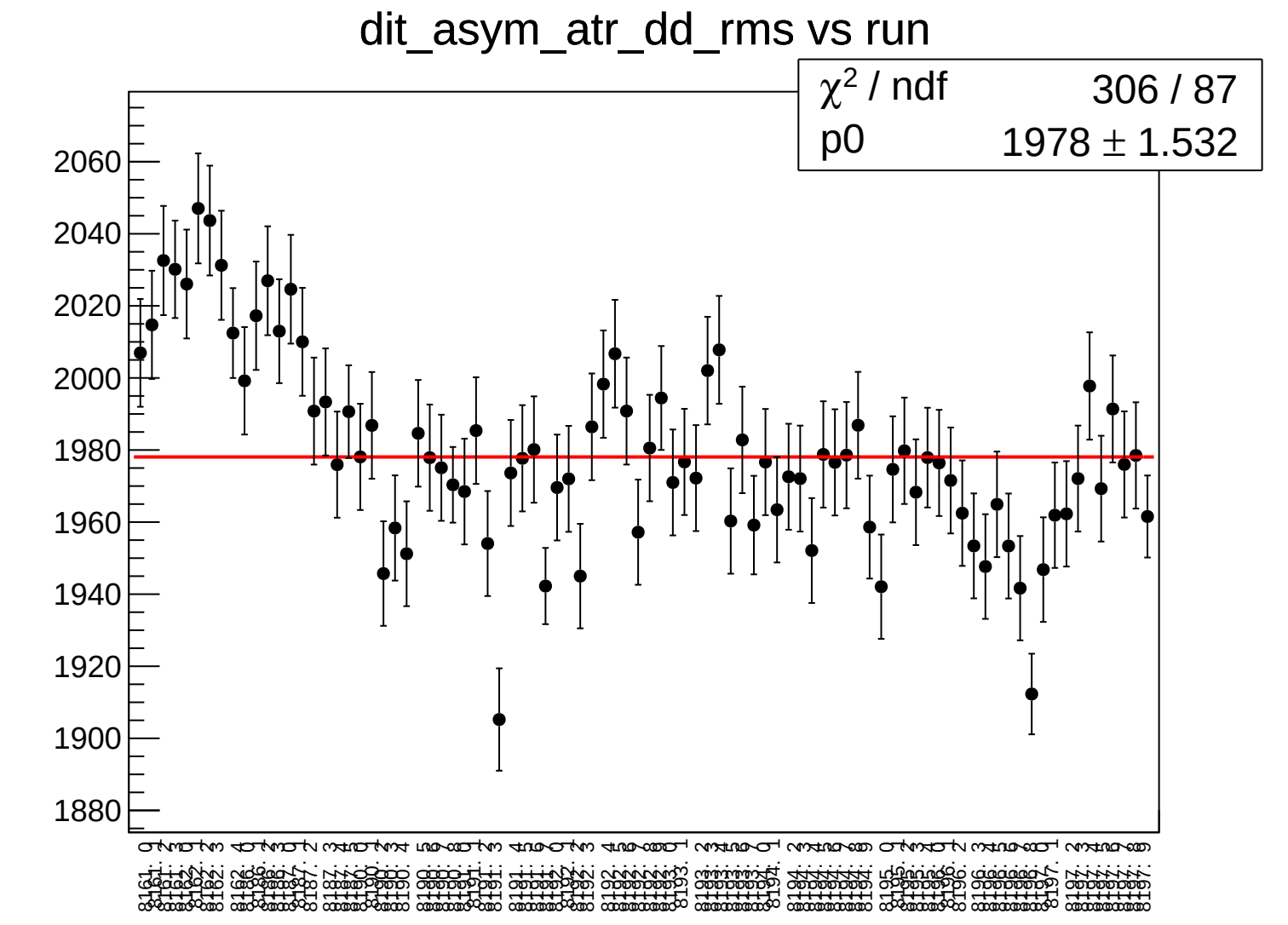

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 79.83 / 87
p0 −5989 ± 7332
200
100
0
−100
−200
−300
pull
Entries 88
Mean −1130
Std Dev 0
2
1
0
−1
−2

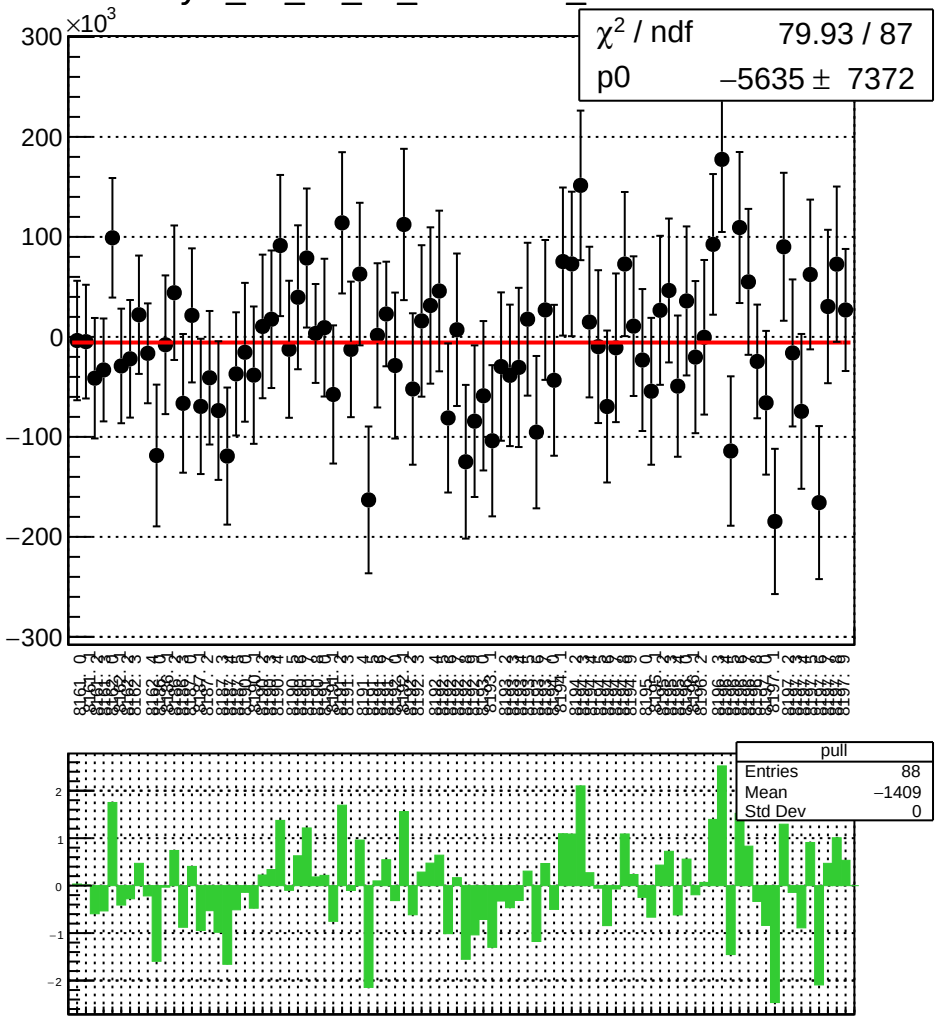

pull1D
Entries 88
Mean −0.001981
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

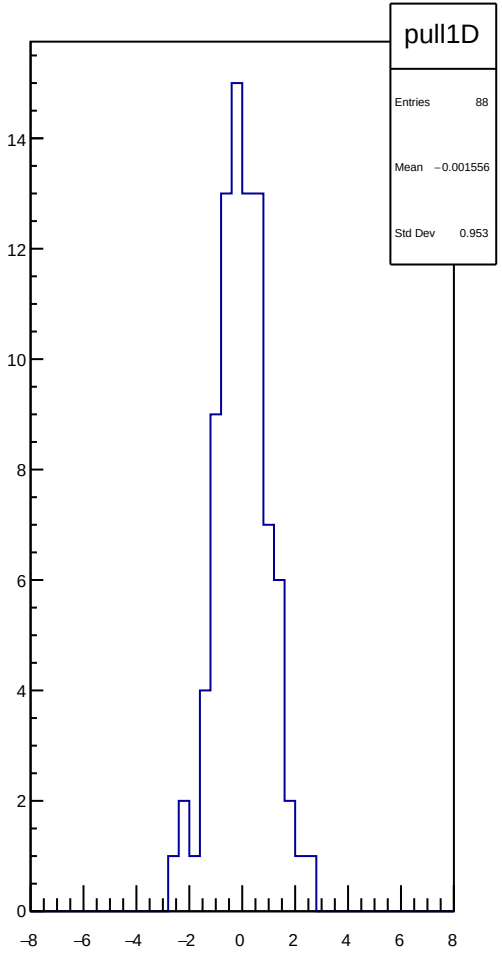

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.124e+04 / 87
p0 6671 ± 5.185
7500
7000
6500
6000
5500

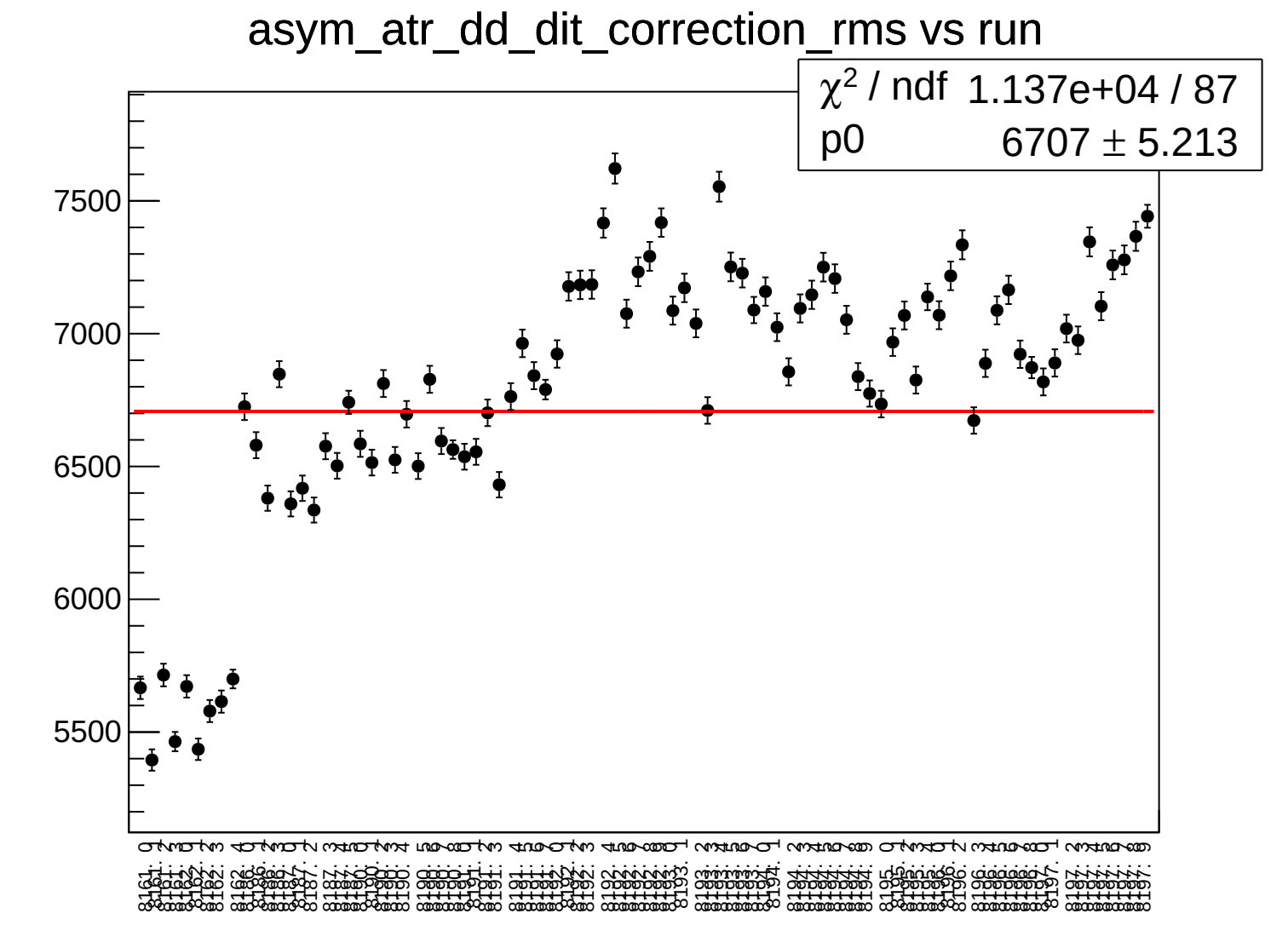

dit_asym_atr_dd_mean vs run
χ² / ndf 71.94 / 87
p0 2611 ± 2167
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 0.8599
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

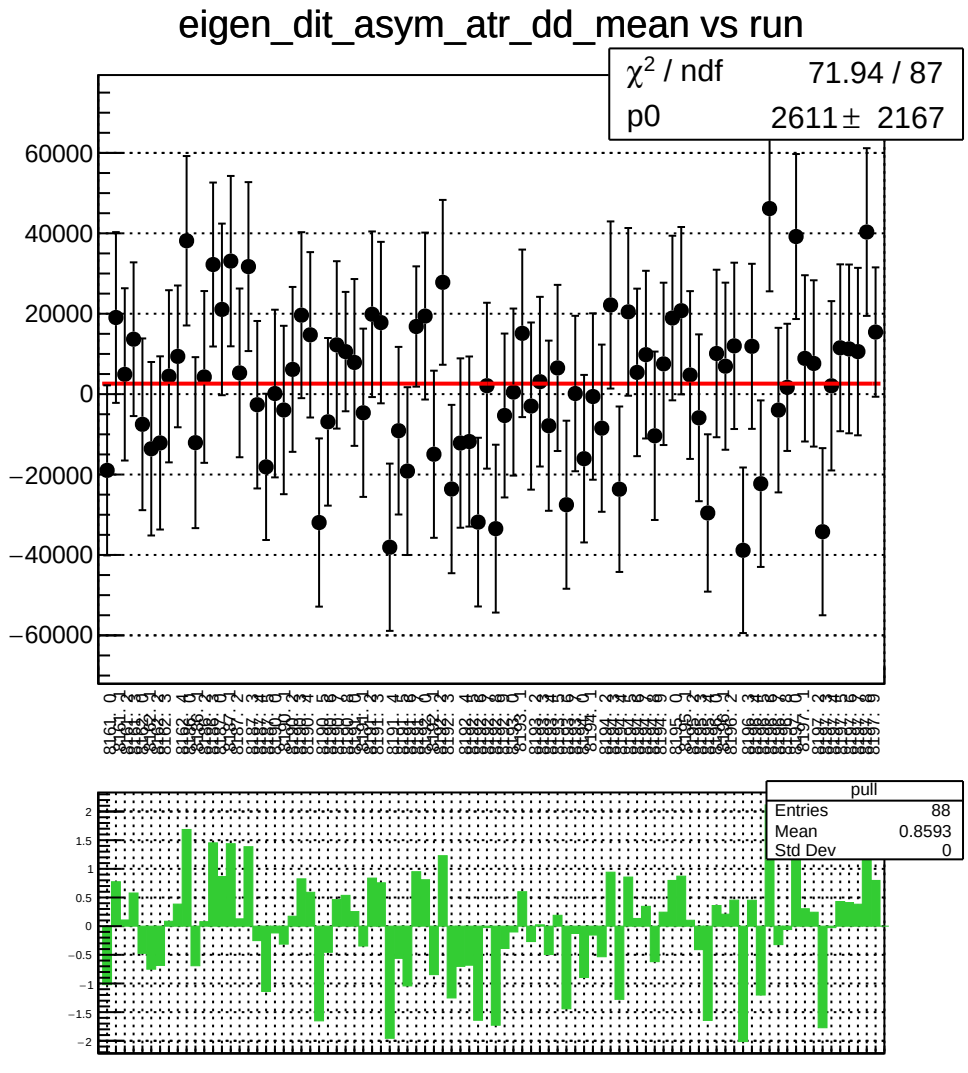

pull1D
Entries 88
Mean −0.009429
Std Dev 0.9041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

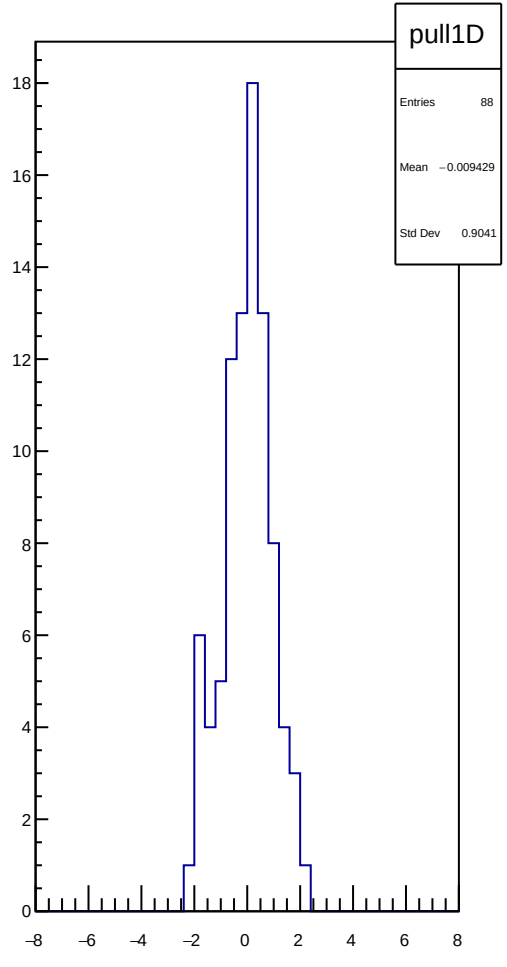

dit_asym_atr_dd_rms vs run
χ² / ndf 306 / 87
p0 1978 ± 1.532
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

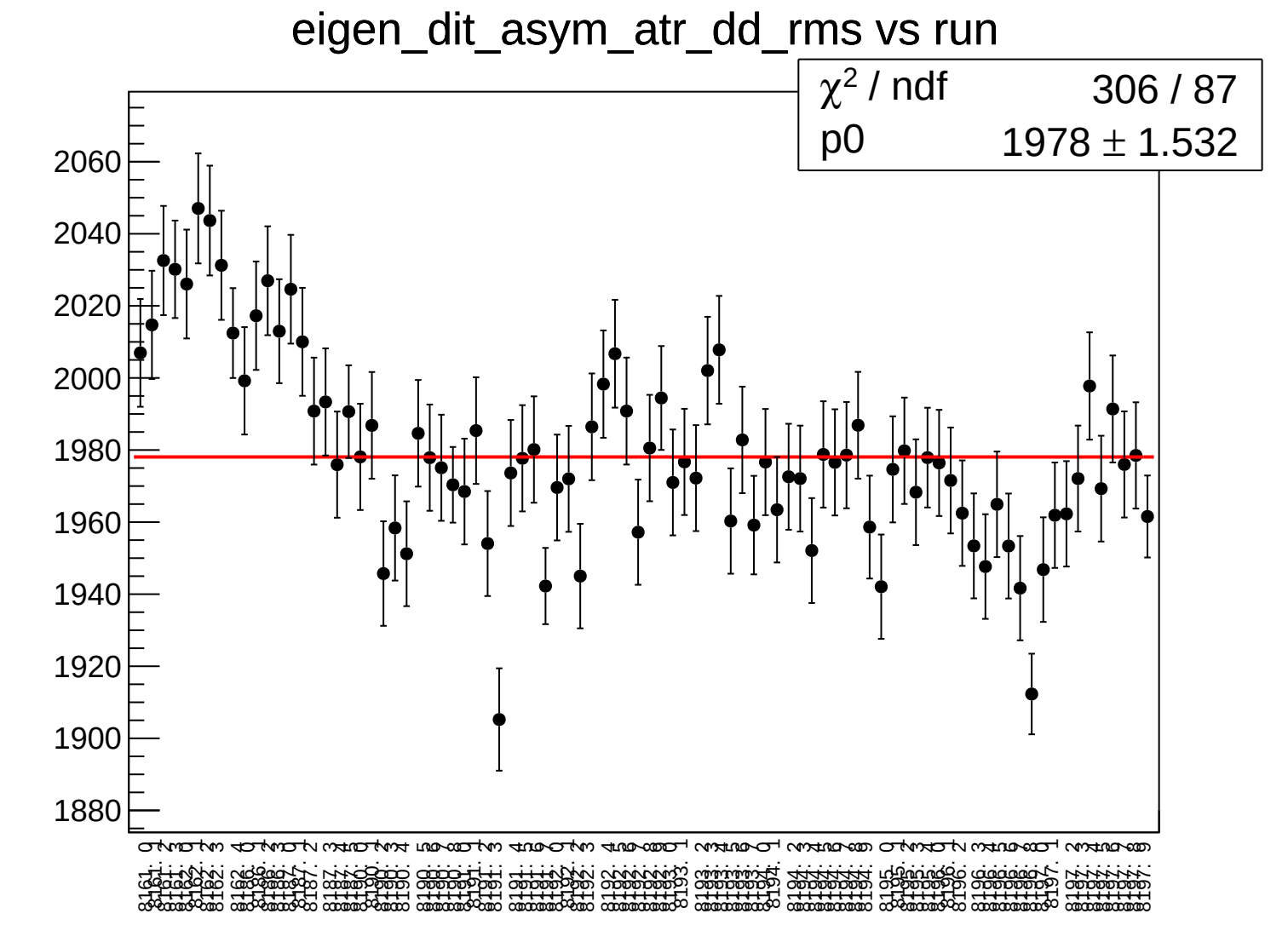

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 79.93 / 87
p0 −5635 ± 7372
×10³
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −1409
Std Dev 0
2
1
0
−1
−2

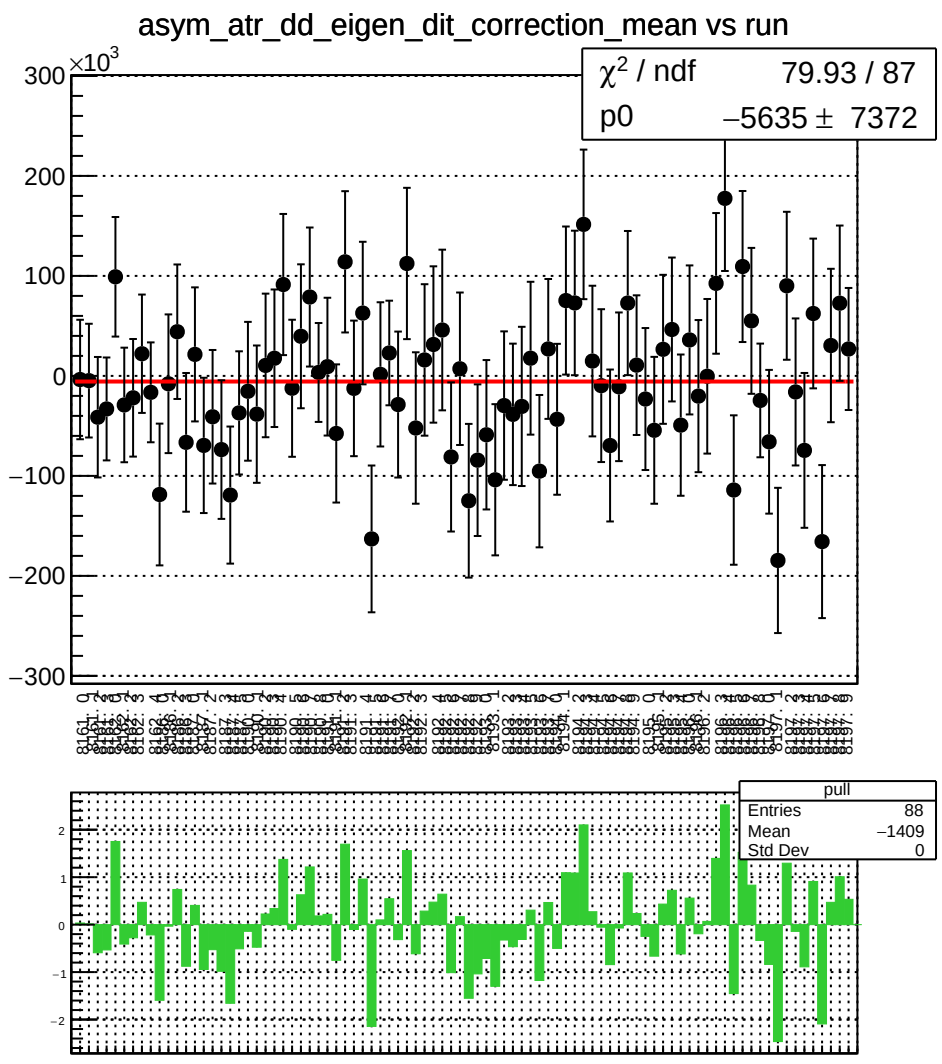

pull1D
Entries 88
Mean −0.001556
Std Dev 0.953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

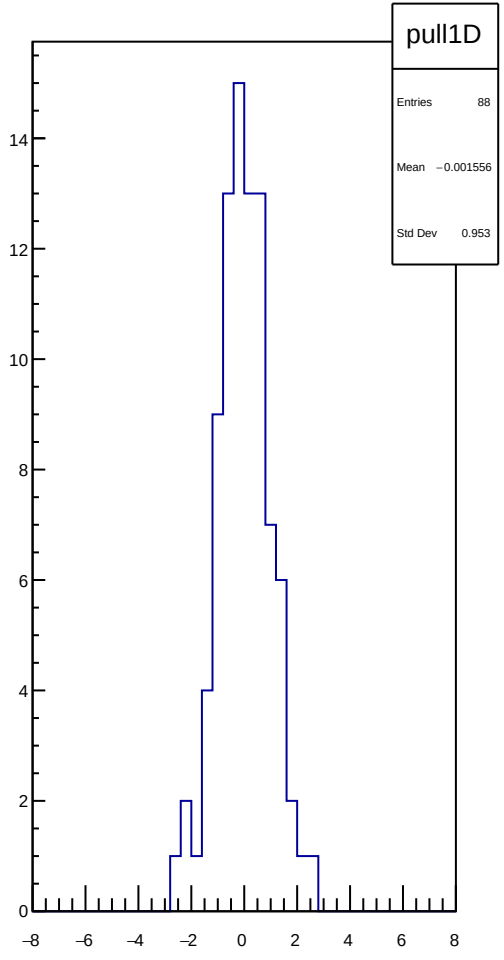

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1.137e+04 / 87
p0 6707 ± 5.213
7500
7000
6500
6000
5500

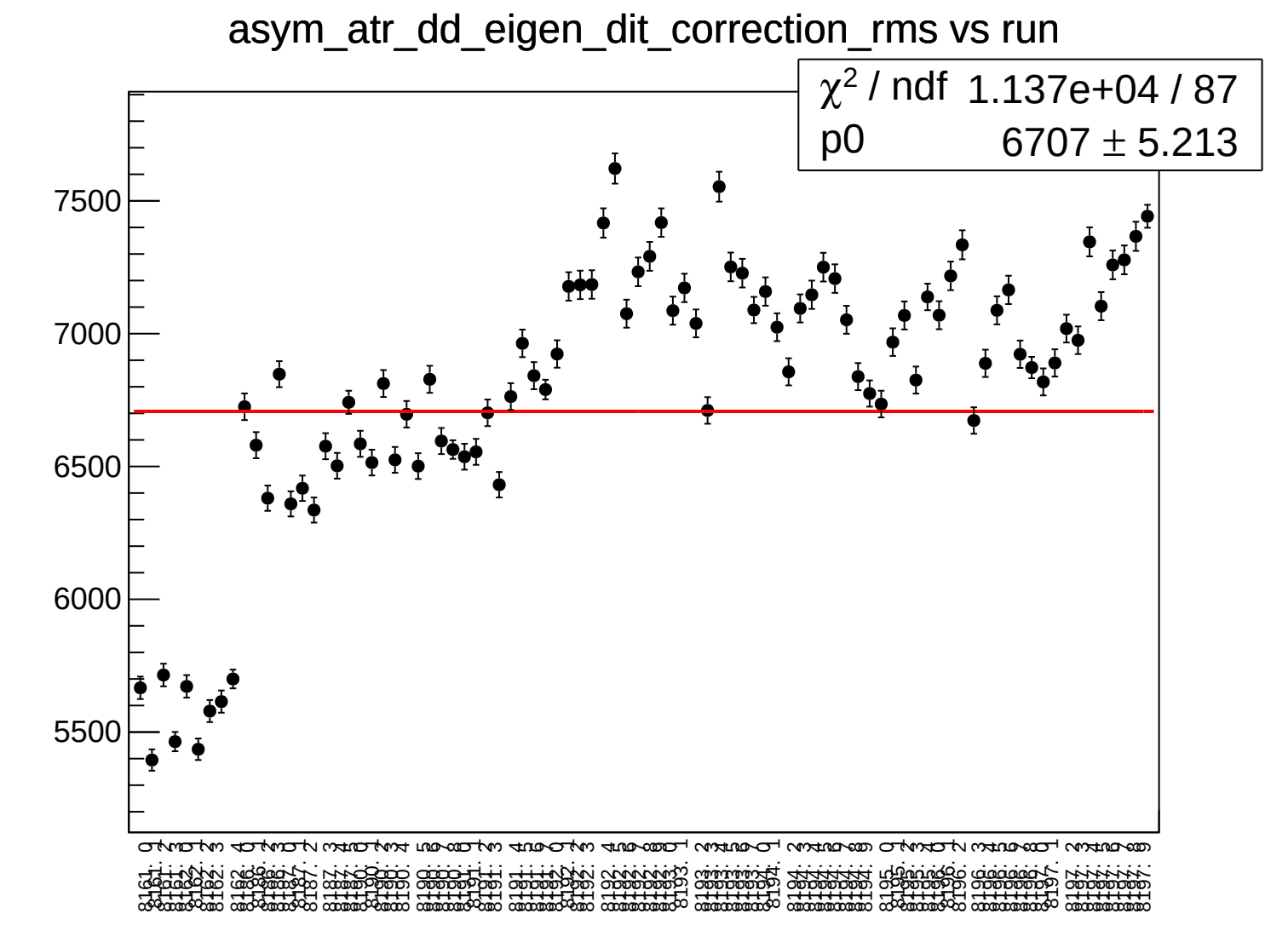

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 71.94 / 87
p0 2611 ± 2167
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 0.8593
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

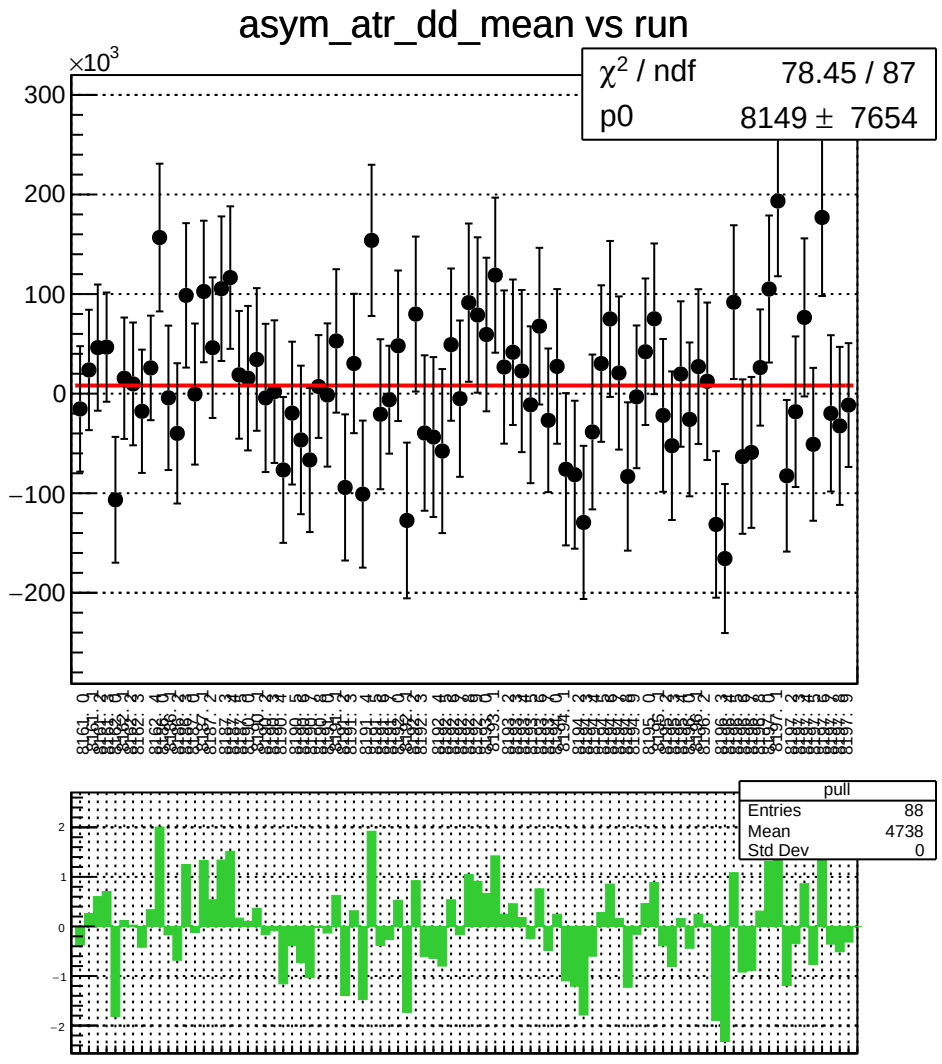

pull1D
Entries 88
Mean −0.009429
Std Dev 0.9041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

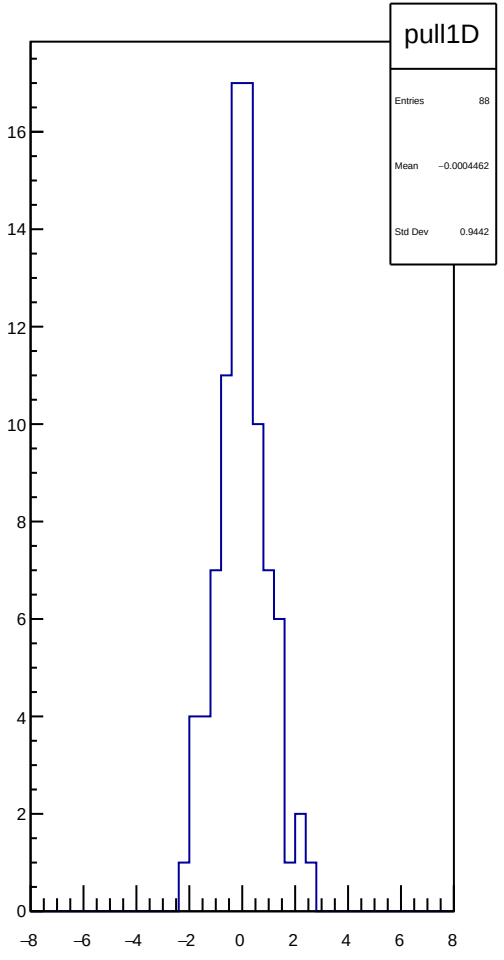

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 306 / 87
p0 1978 ± 1.532
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

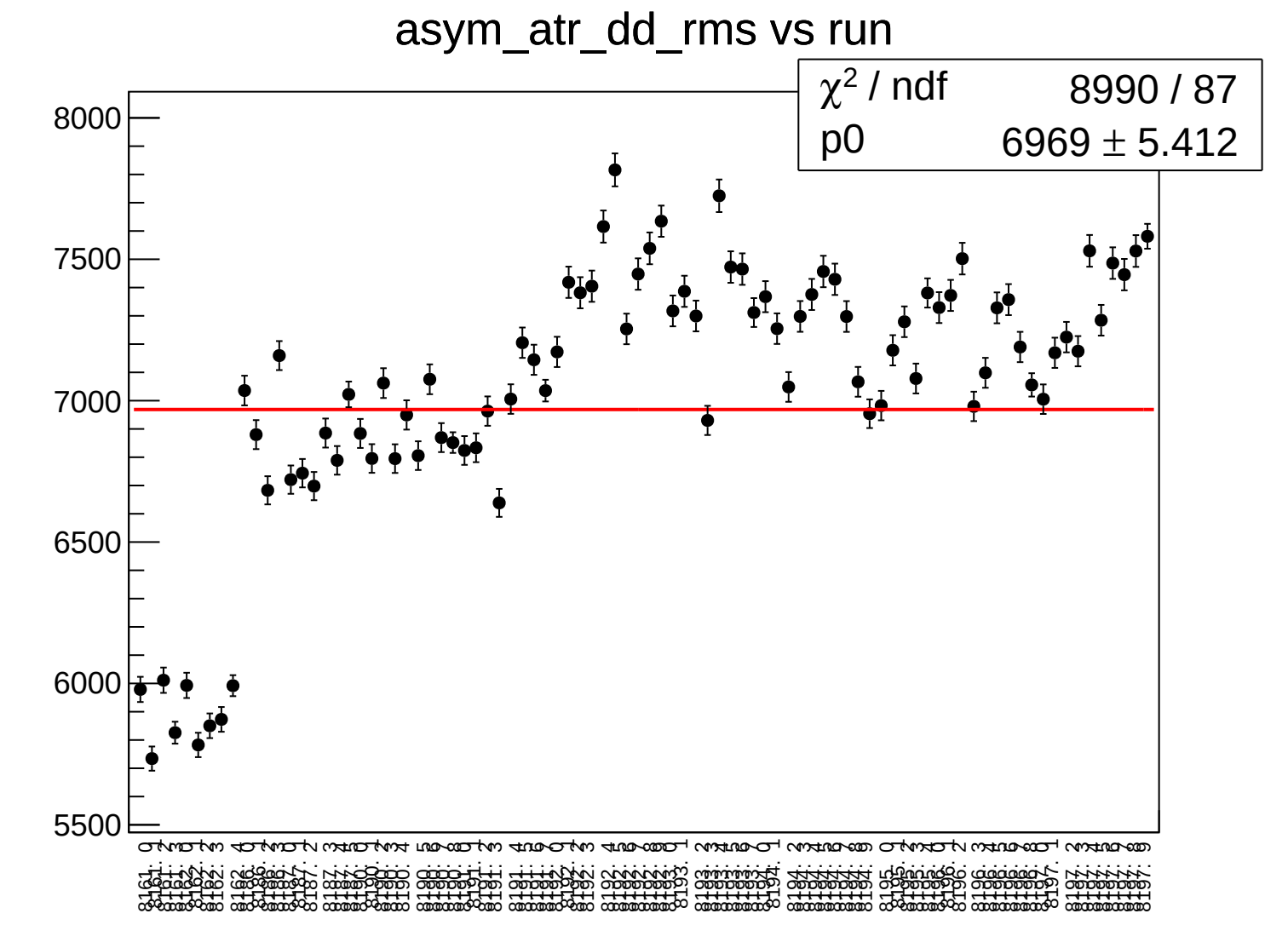

asym_atr_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.93 / 87
p0 −5635 ± 7372
×10³
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −1409
Std Dev 0
2
1
0
−1
−2

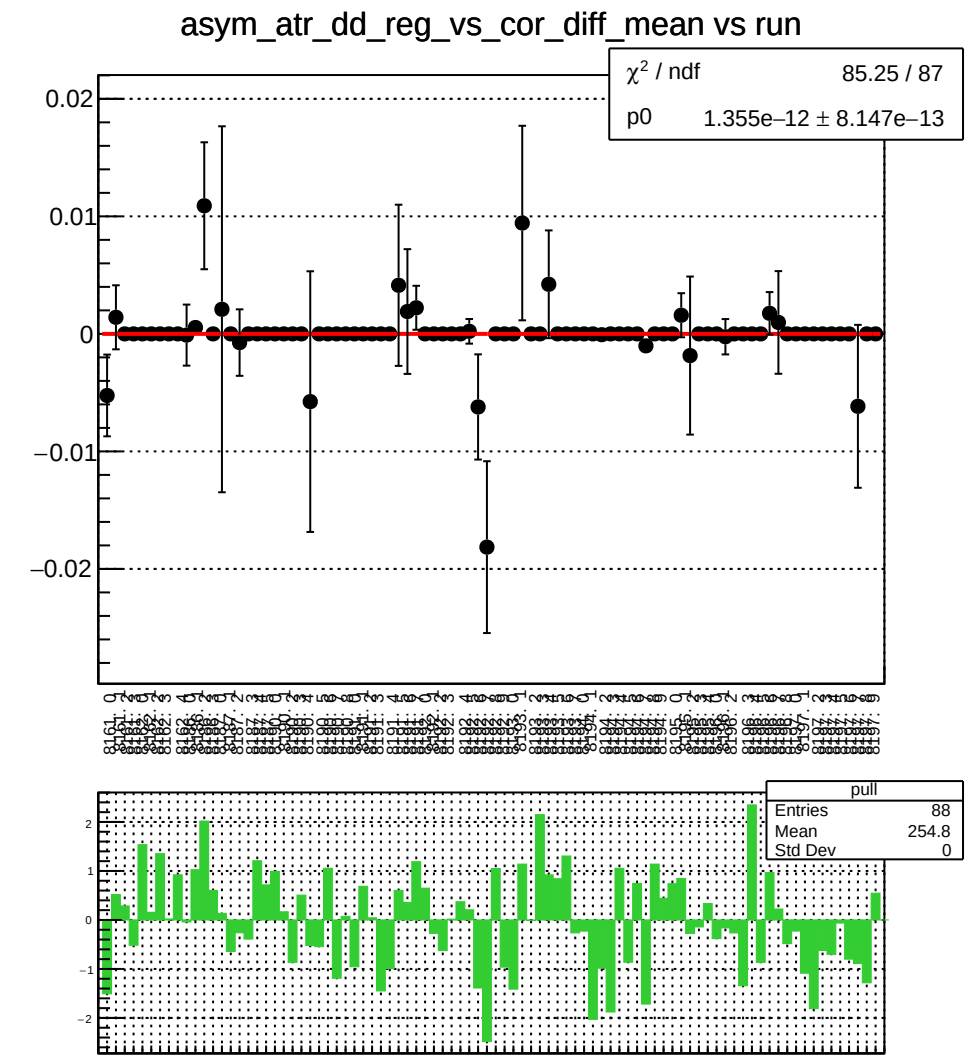

pull1D
Entries 88
Mean −0.001556
Std Dev 0.953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

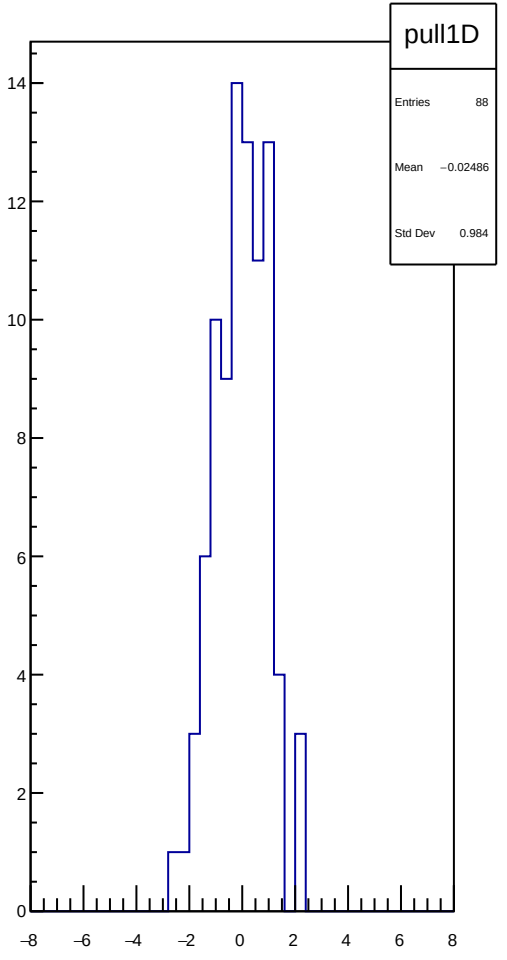

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.137e+04 / 87
p0 6707 ± 5.213
7500
7000
6500
6000
5500

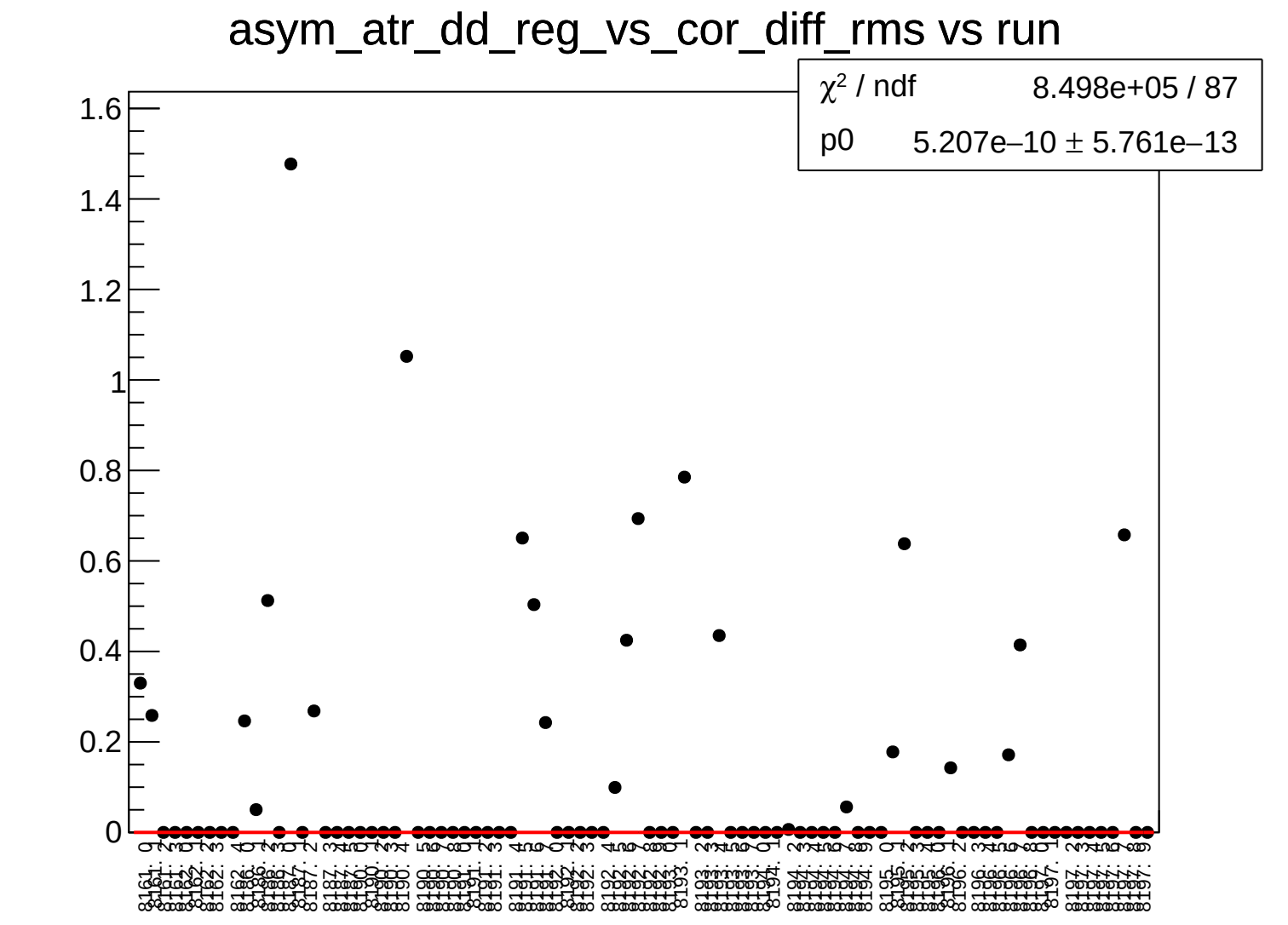

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 78.45 / 87
p0 8149 ± 7654
300
200
100
0
−100
−200
pull
Entries 88
Mean 4738
Std Dev 0
2
1
0
−1
−2

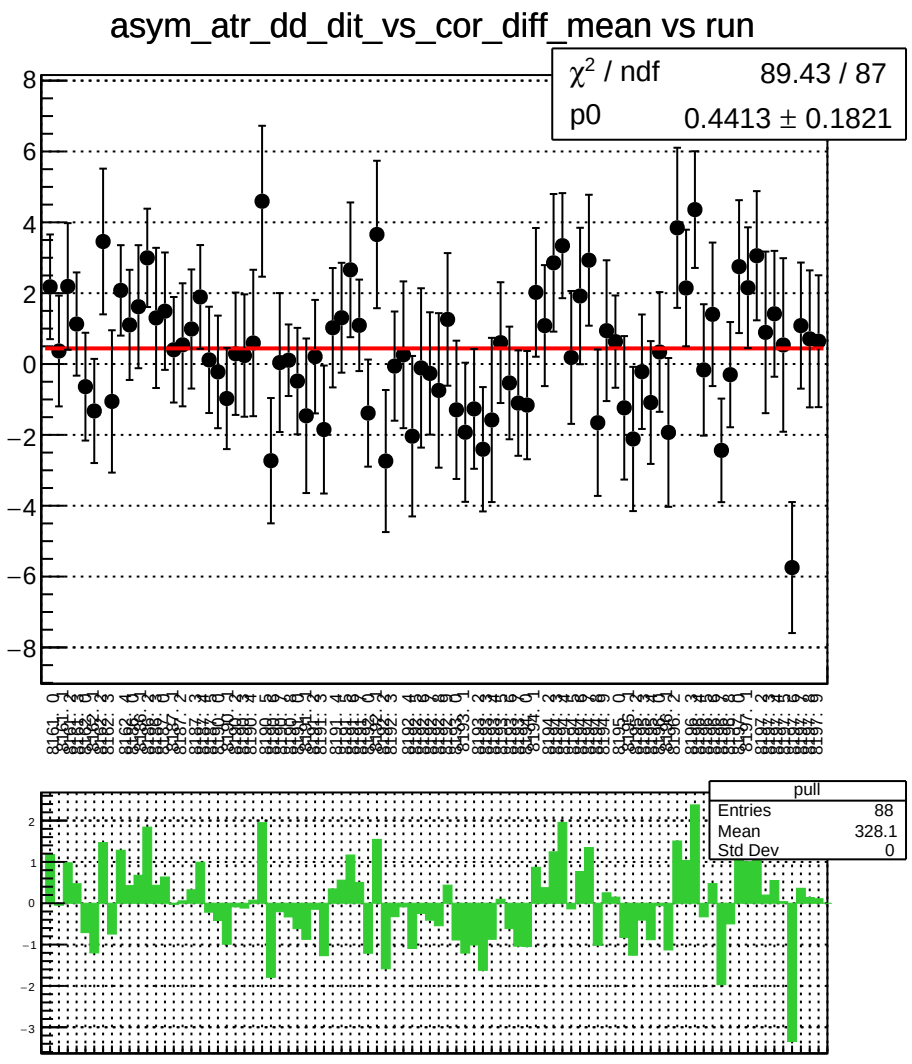

pull1D
Entries 88
Mean −0.0004462
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

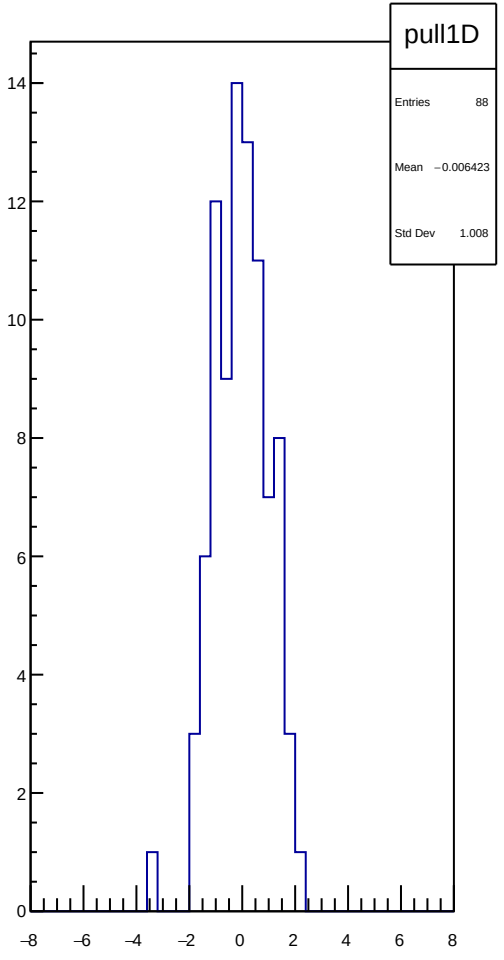

asym_atr_dd_rms vs run
χ² / ndf 8990 / 87
p0 6969 ± 5.412
8000
7500
7000
6500
6000
5500

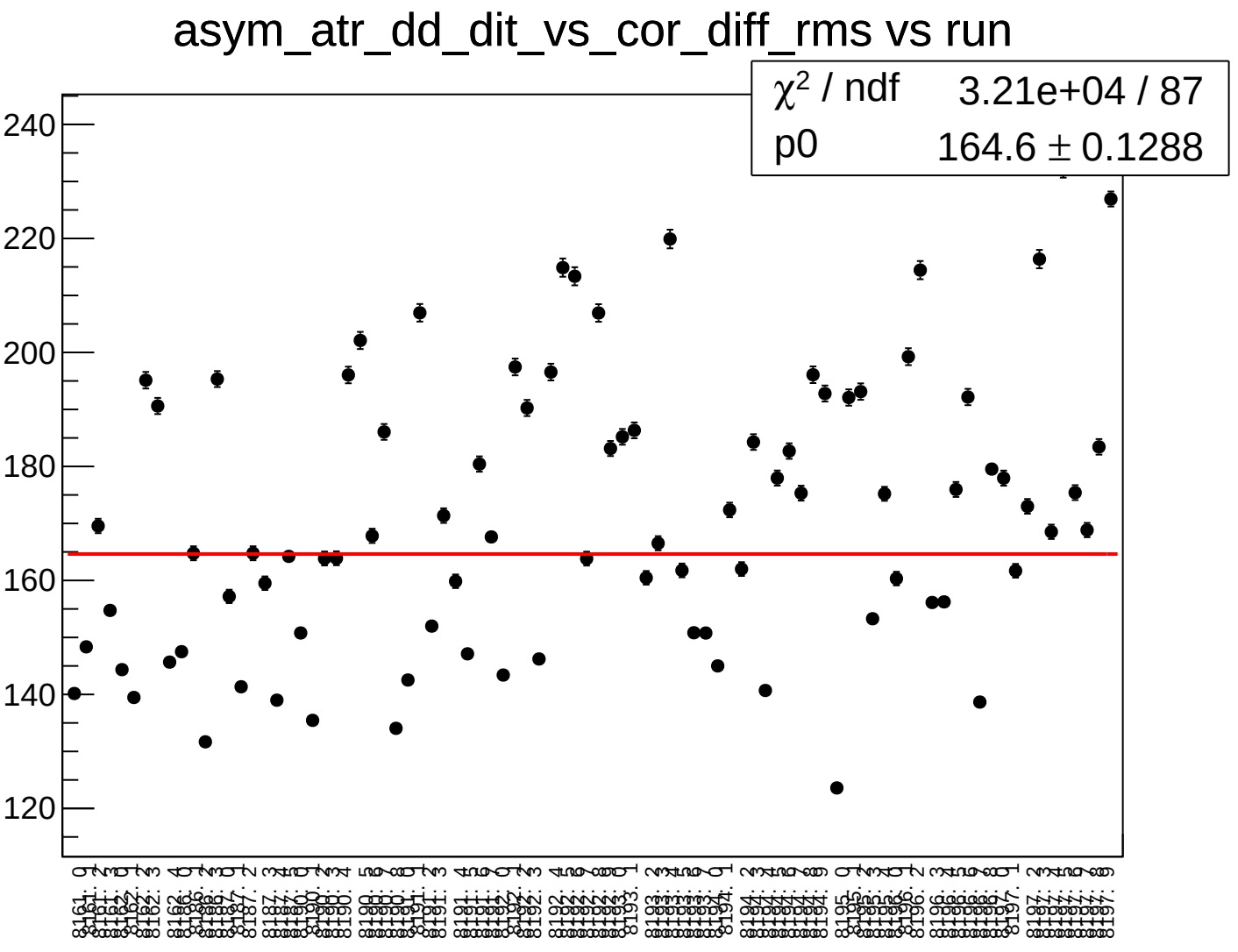

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.25 / 87
p0 1.355e−12 ± 8.147e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 254.8
Std Dev 0
2
1
0
−1
−2

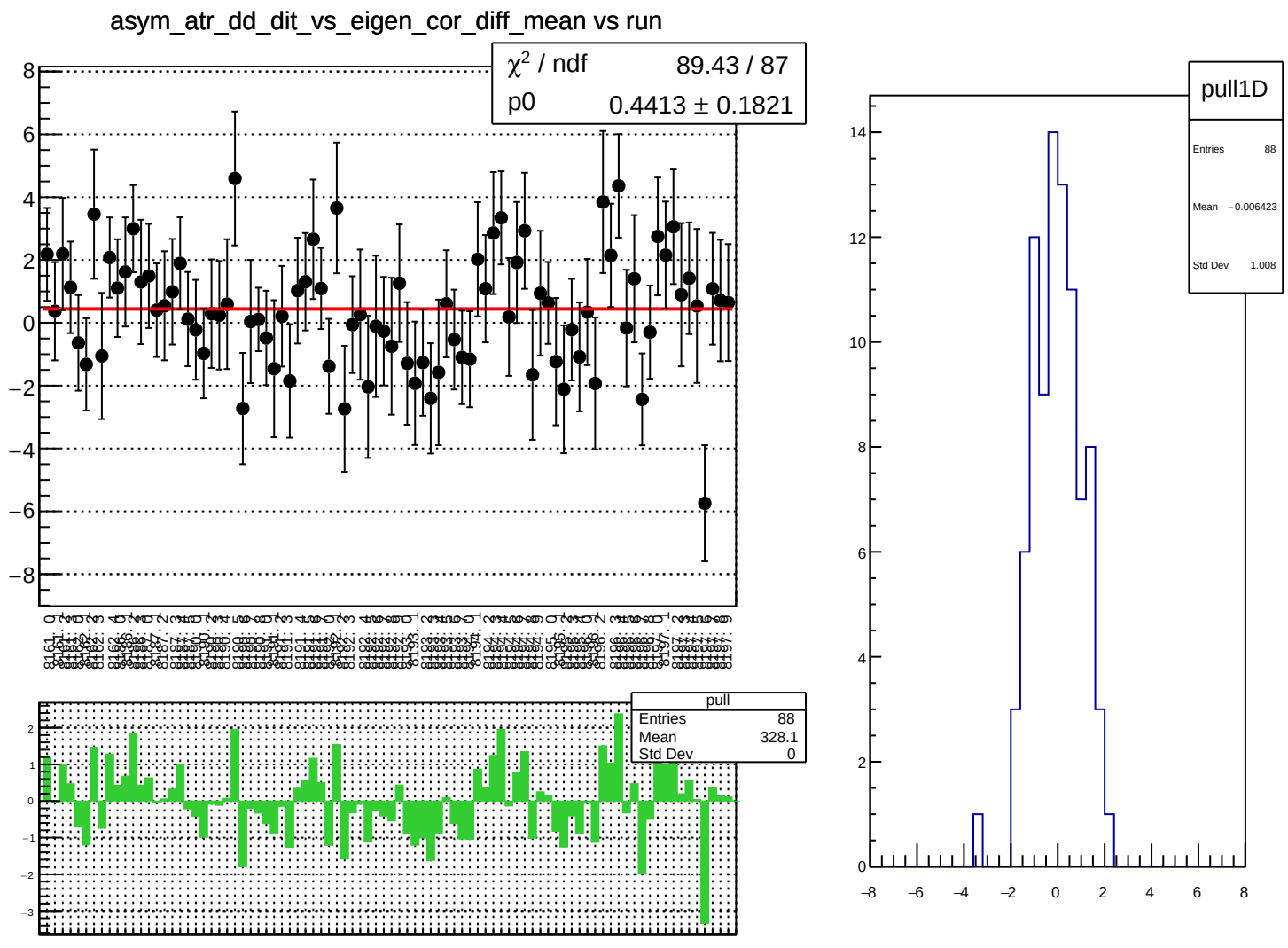

pull1D
Entries 88
Mean −0.02486
Std Dev 0.984
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

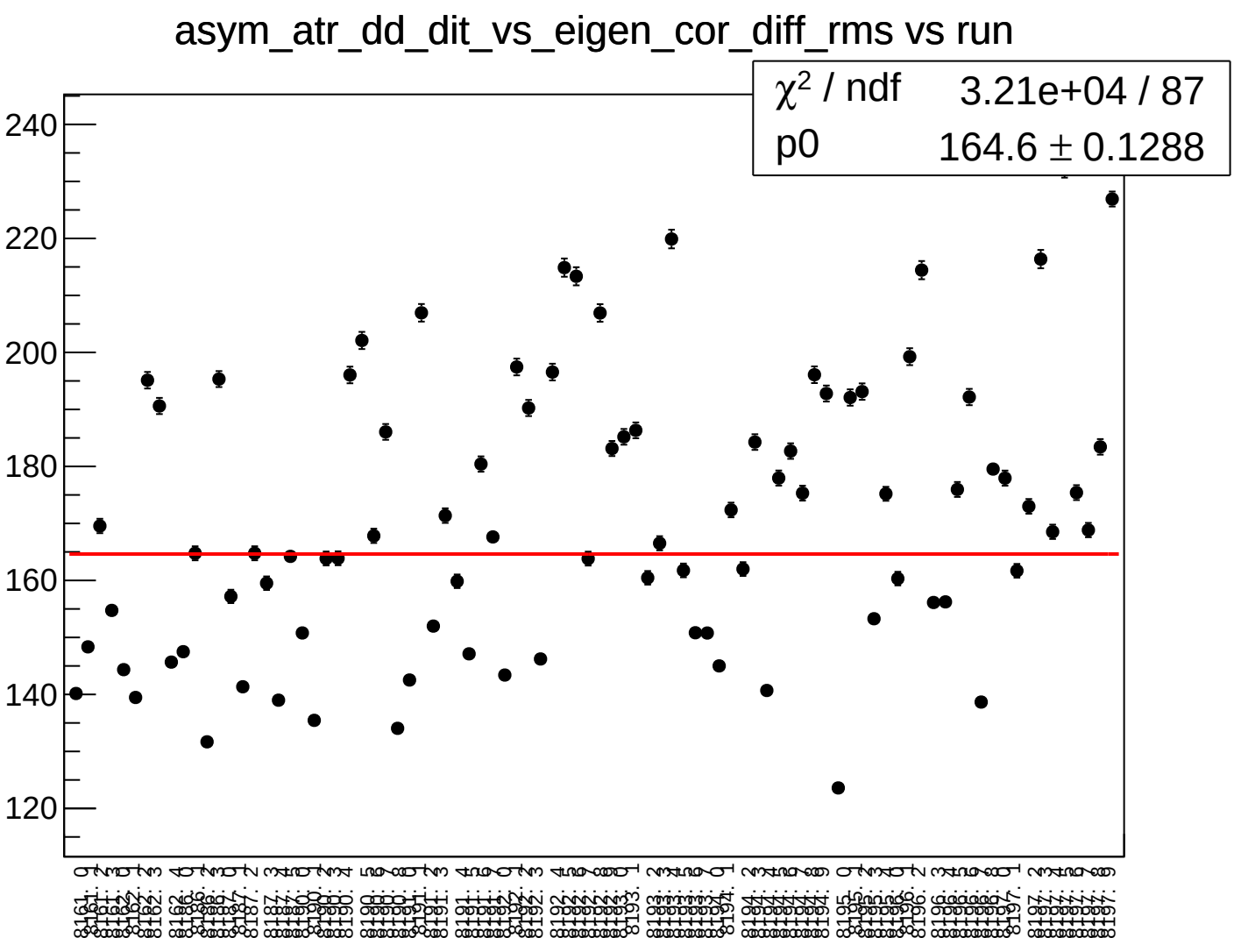

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.498e+05 / 87
p0 5.207e−10 ± 5.761e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

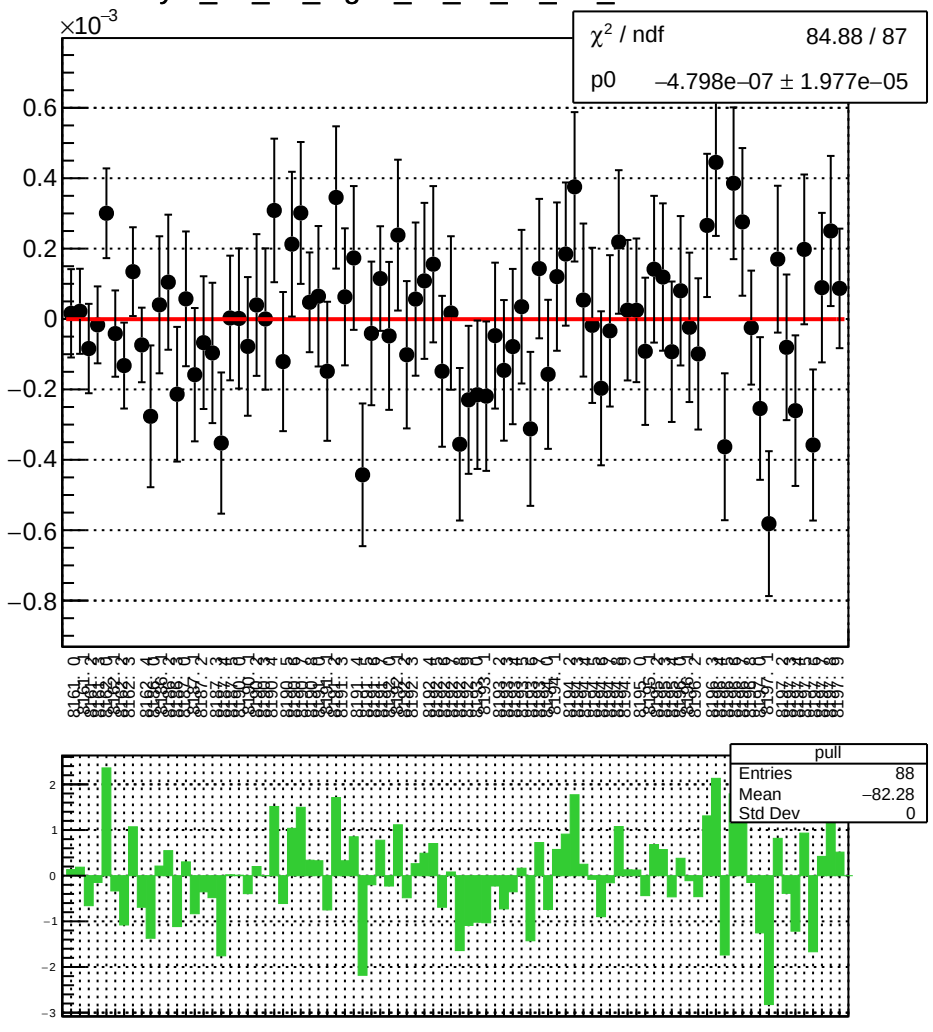

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.43 / 87
p0 0.4413 ± 0.1821
pull
Entries 88
Mean 328.1
Std Dev 0

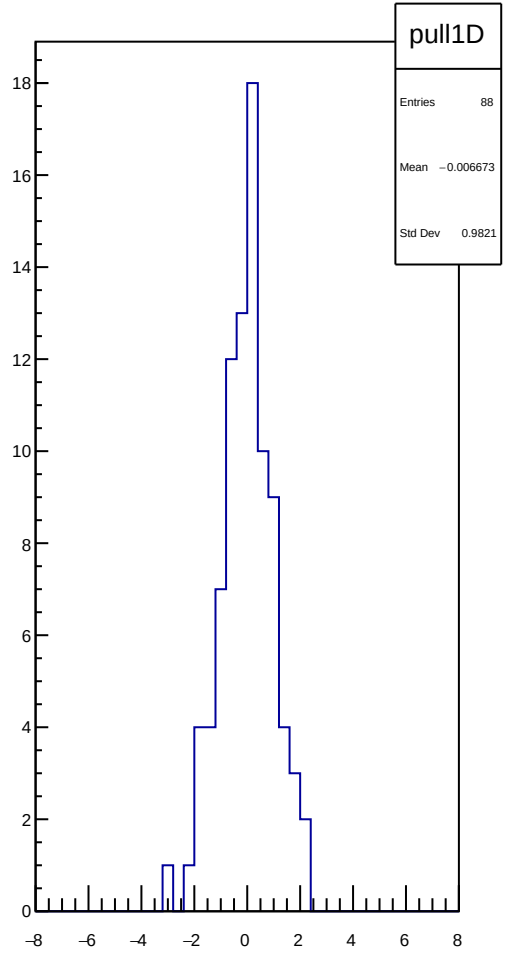

pull1D
Entries 88
Mean −0.006423
Std Dev 1.008

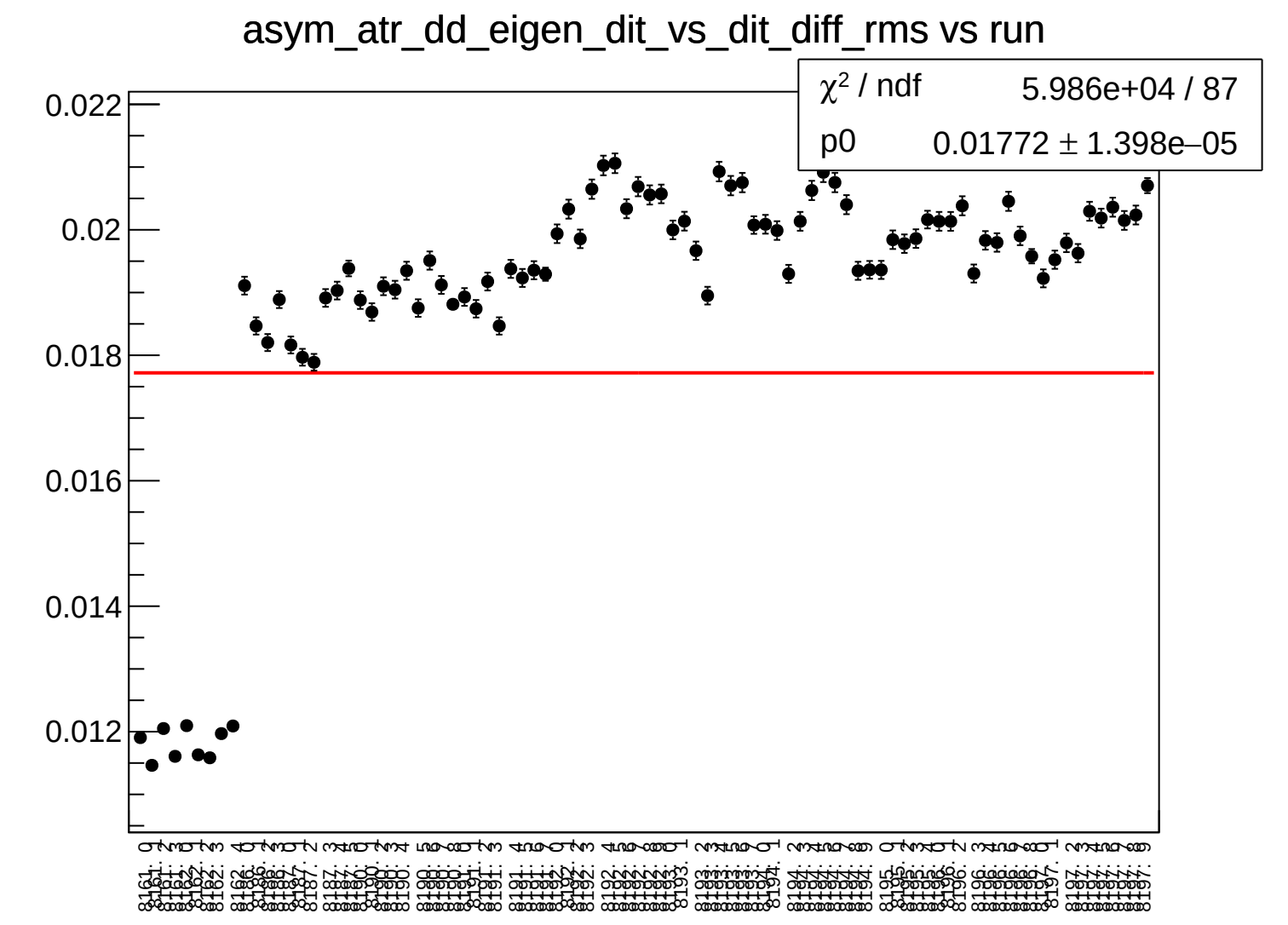

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.21e+04 / 87
p0 164.6 ± 0.1288
240
220
200
180
160
140
120

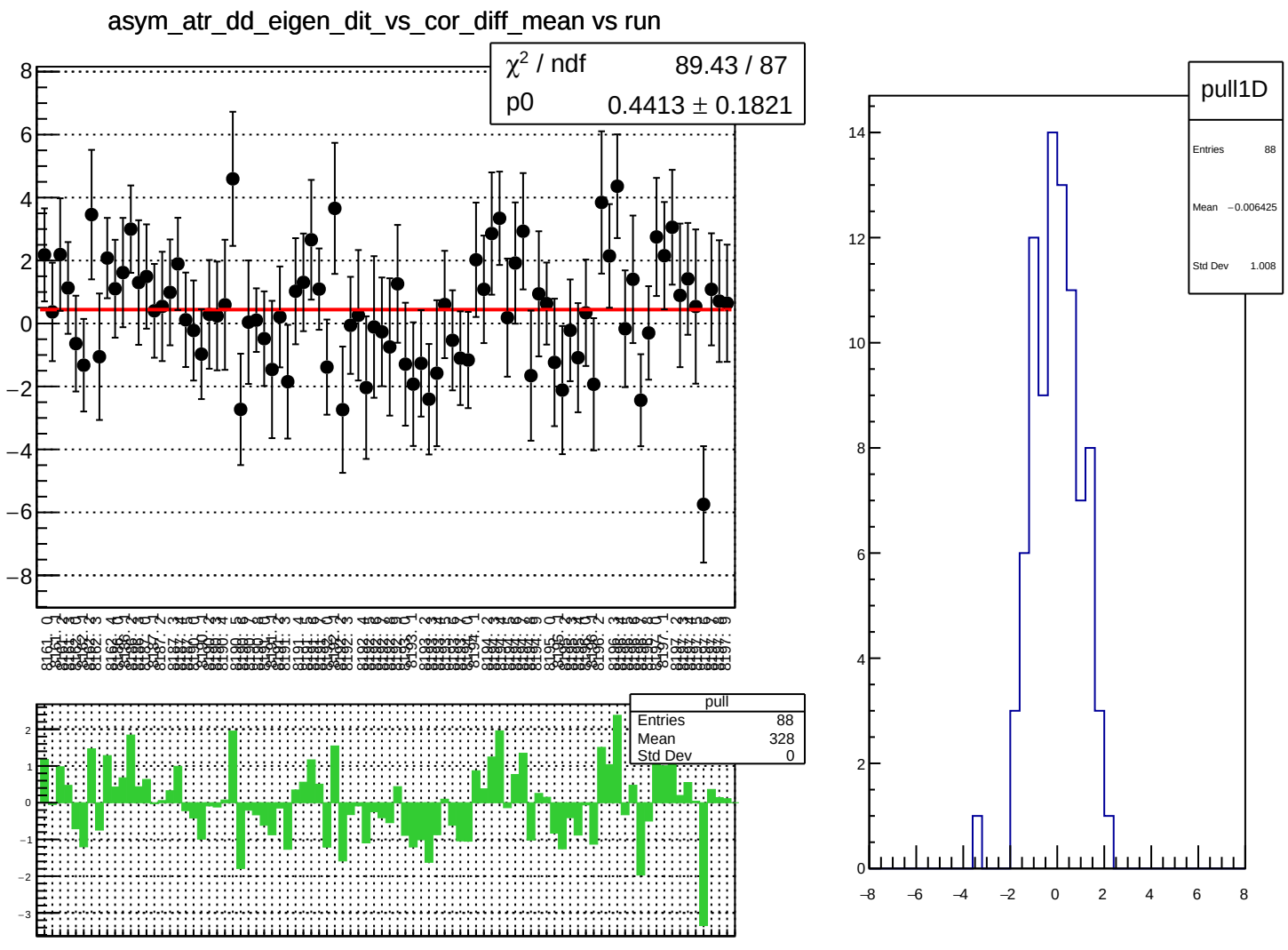

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.43 / 87
p0 0.4413 ± 0.1821
pull
Entries 88
Mean 328.1
Std Dev 0
pull1D
Entries 88
Mean −0.006423
Std Dev 1.008

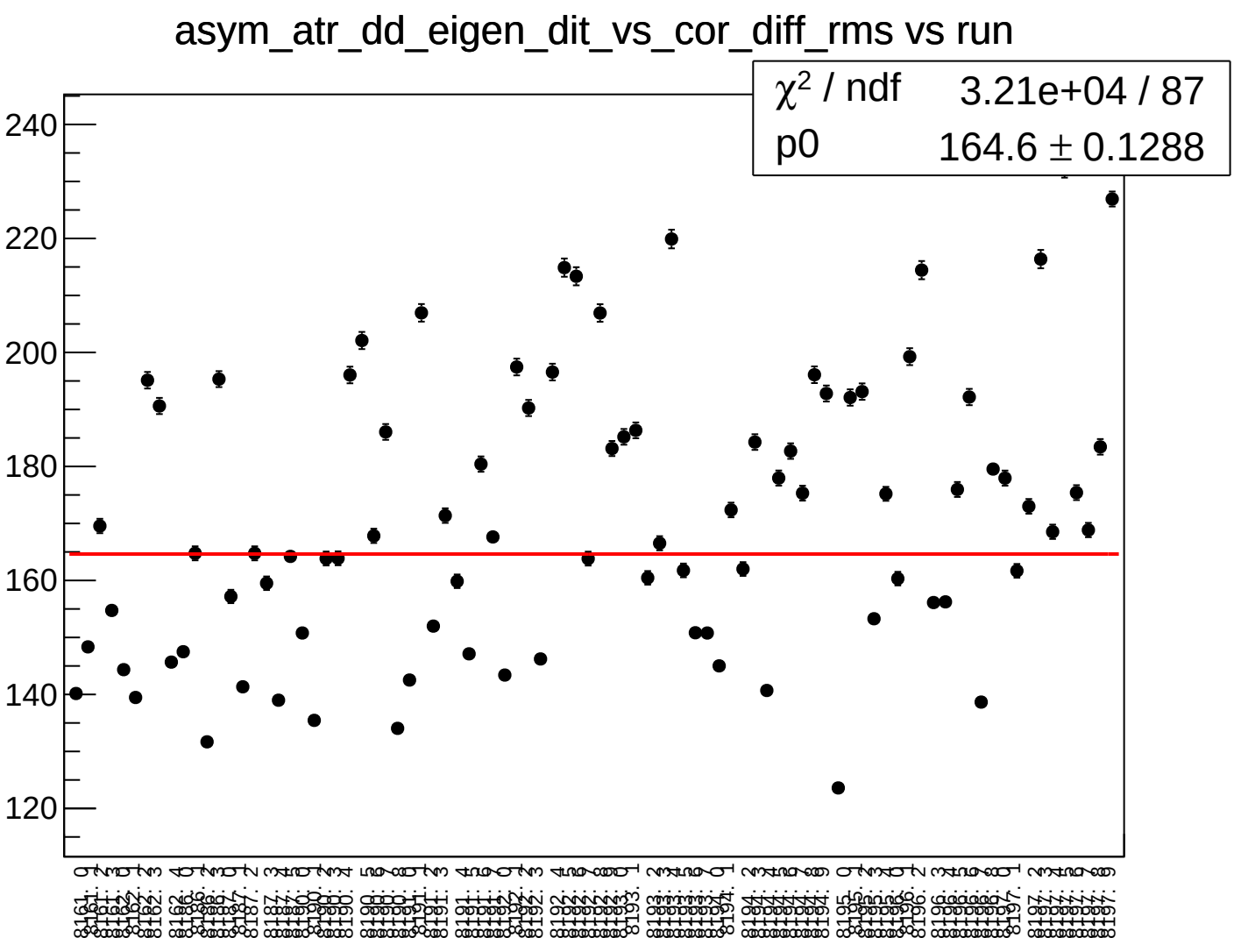

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.21e+04 / 87
p0 164.6 ± 0.1288
240
220
200
180
160
140
120

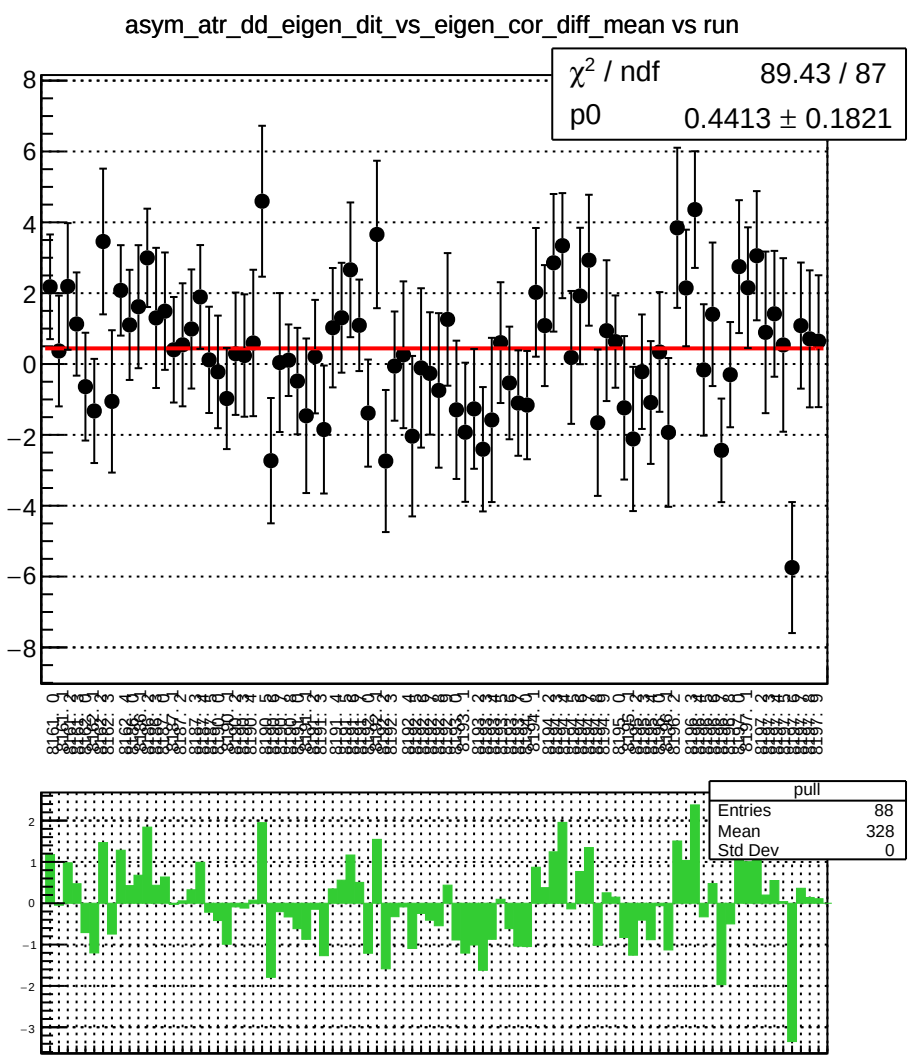

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.88 / 87
p0 −4.798e−07 ± 1.977e−05
pull
Entries 88
Mean −82.28
Std Dev 0

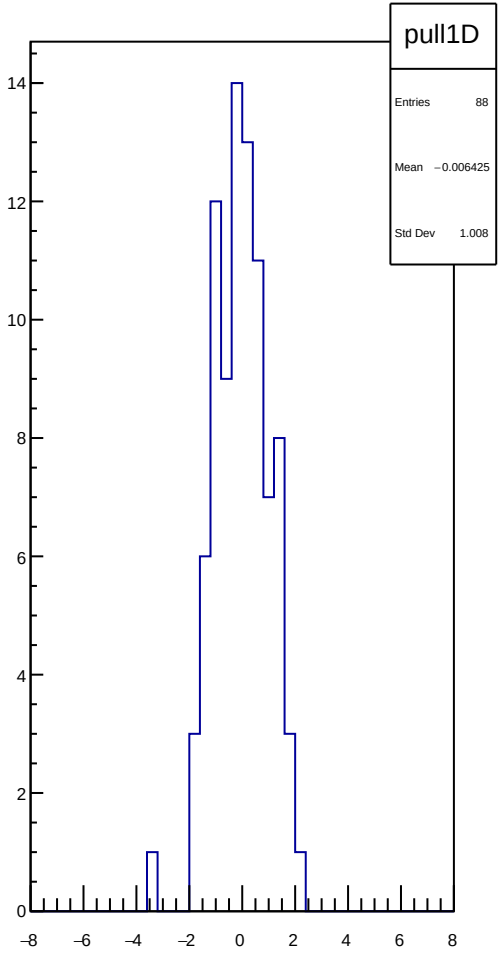

pull1D
Entries 88
Mean −0.006673
Std Dev 0.9821

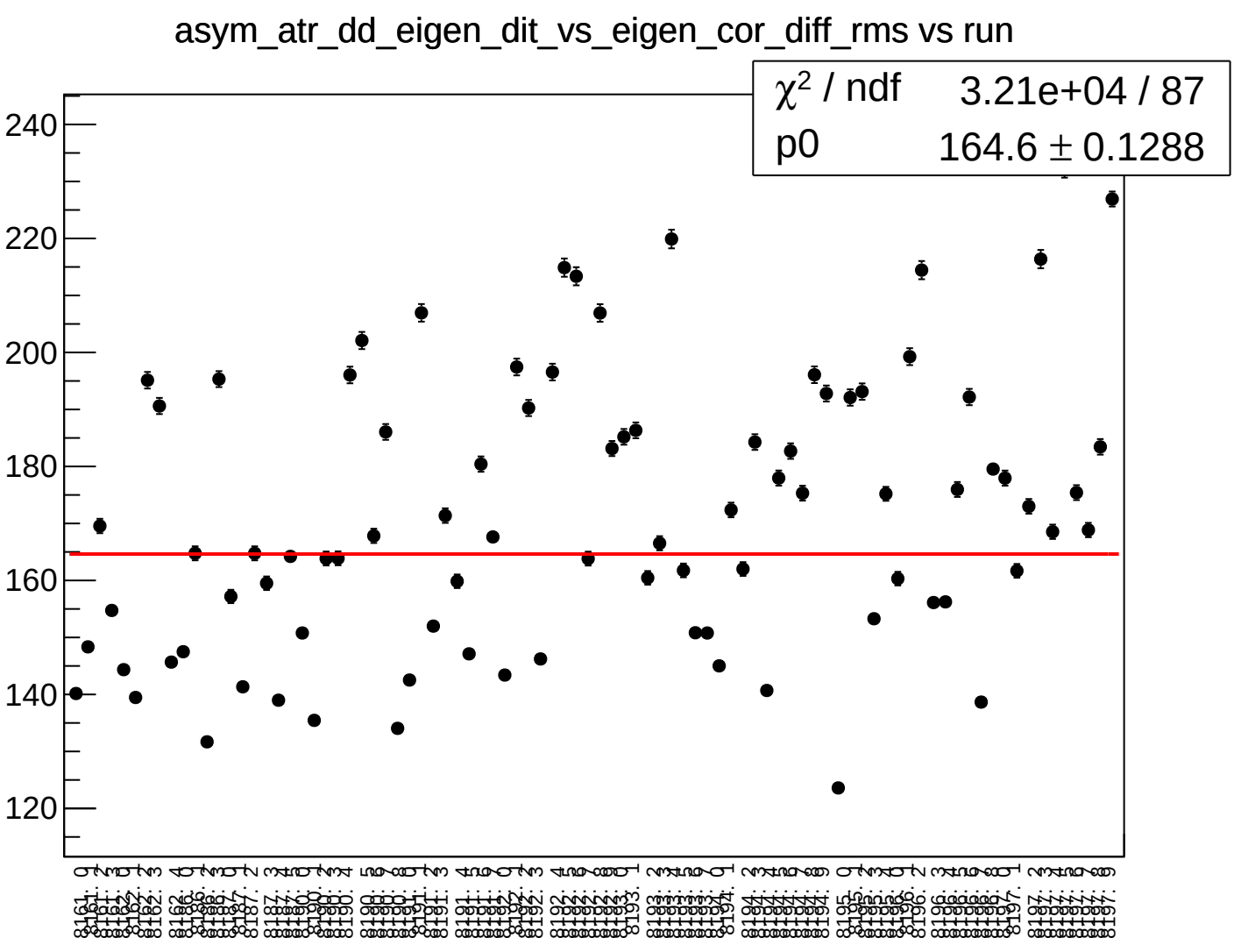

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.986e+04 / 87
p0 0.01772 ± 1.398e−05
0.022
0.02
0.018
0.016
0.014
0.012

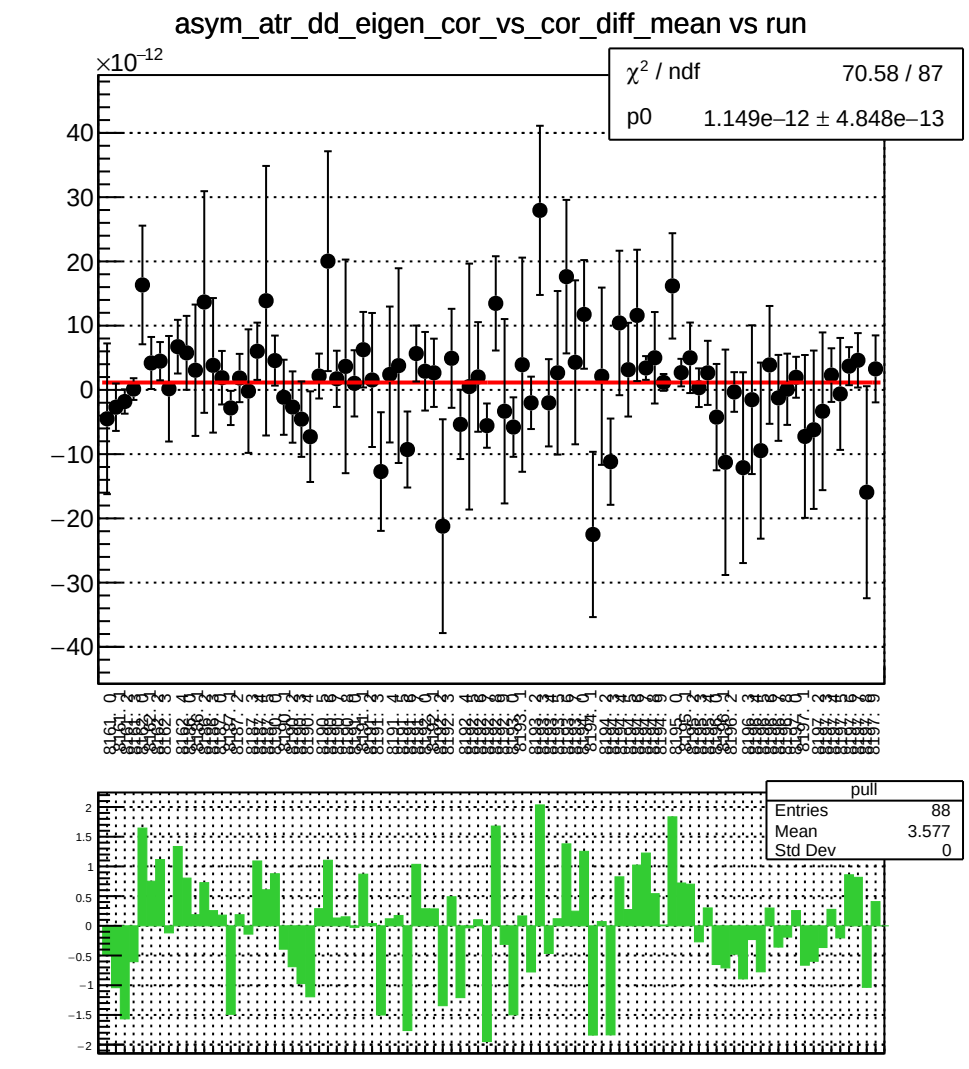

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.43 / 87
p0 0.4413 ± 0.1821
pull
Entries 88
Mean 328
Std Dev 0
pull1D
Entries 88
Mean −0.006425
Std Dev 1.008

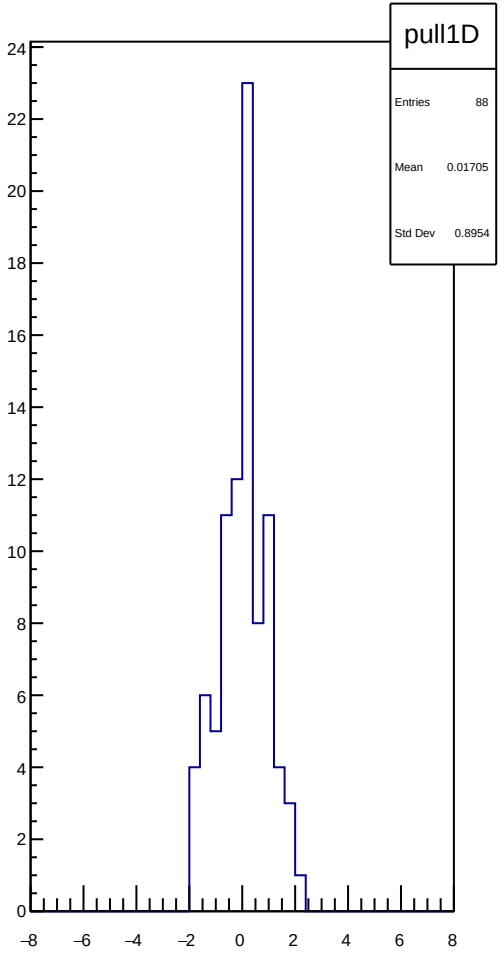

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.21e+04 / 87
p0 164.6 ± 0.1288
240
220
200
180
160
140
120

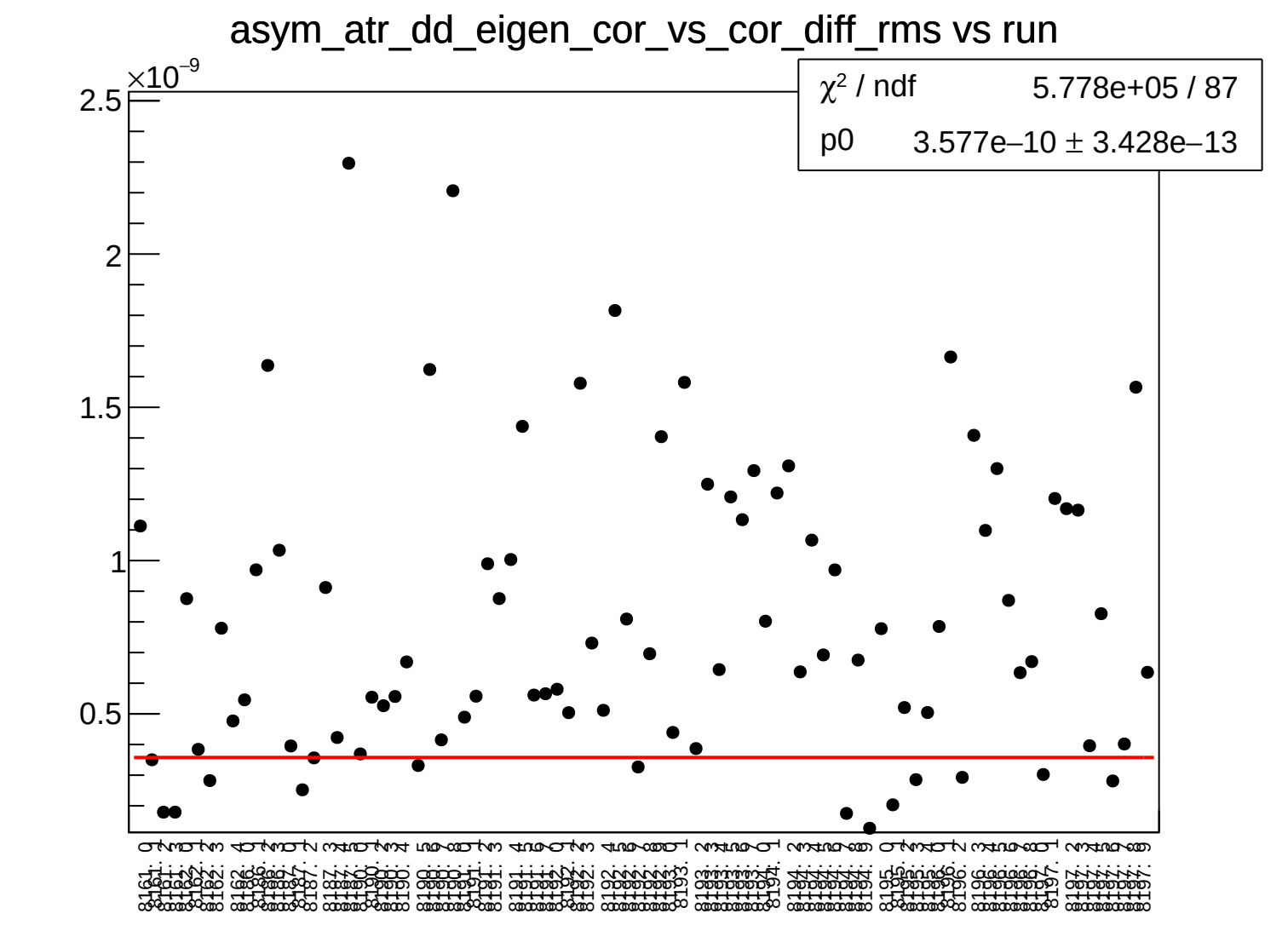

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.43 / 87
p0 0.4413 ± 0.1821
pull
Entries 88
Mean 328
Std Dev 0

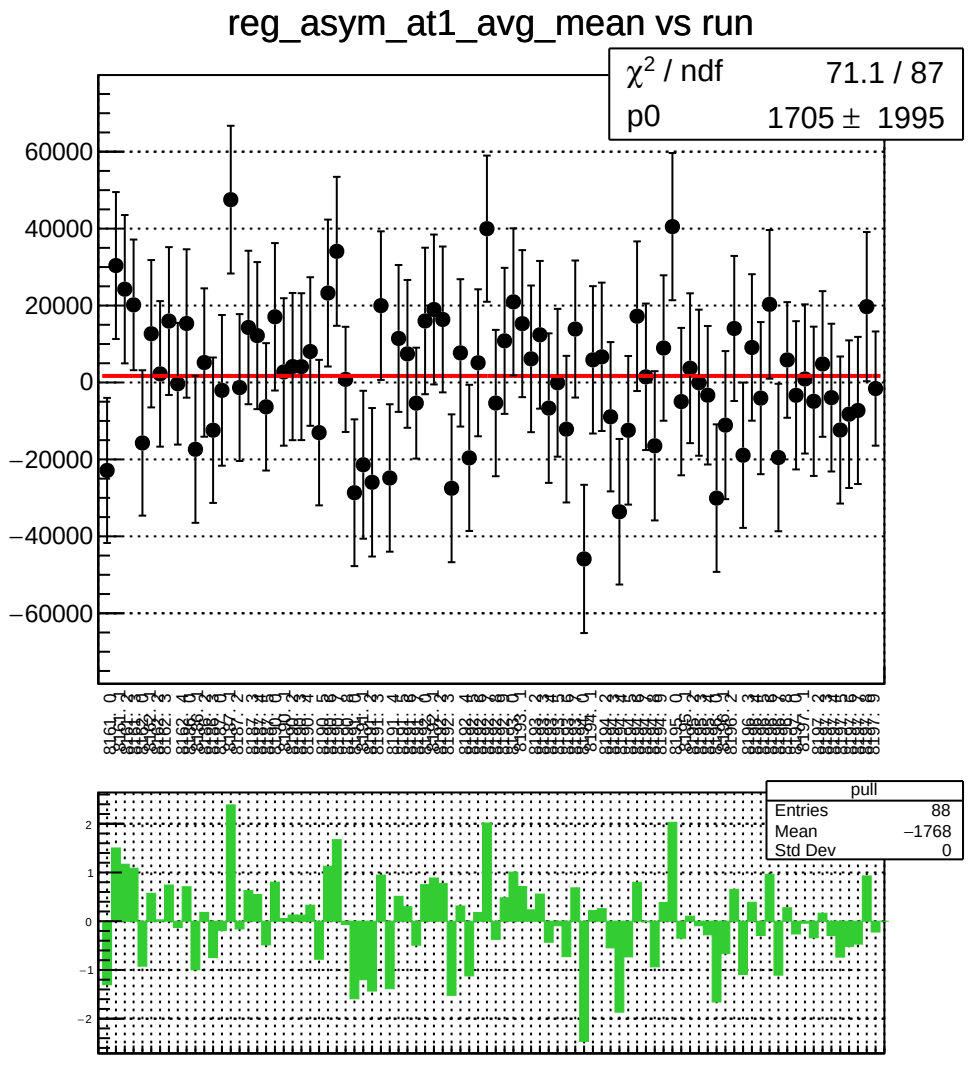

pull1D
Entries 88
Mean −0.006425
Std Dev 1.008

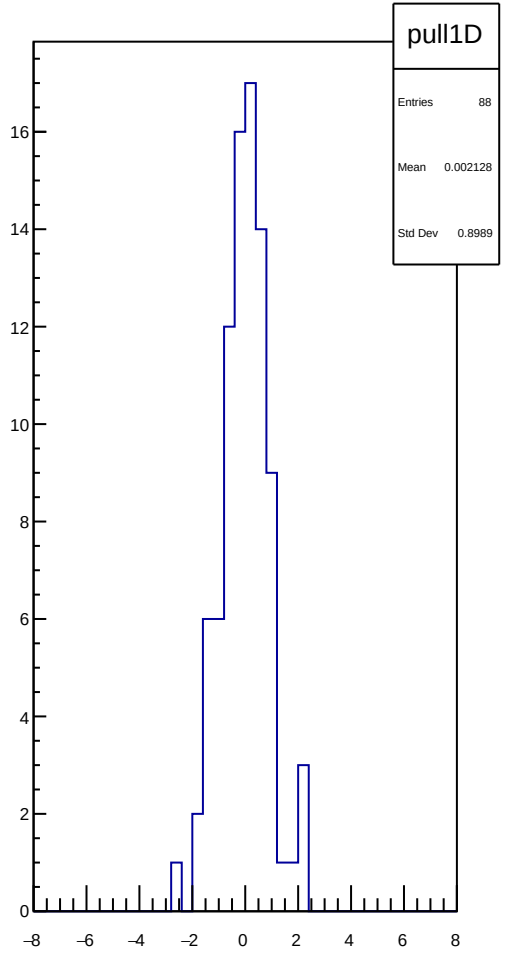

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.21e+04 / 87
p0 164.6 ± 0.1288
240
220
200
180
160
140
120

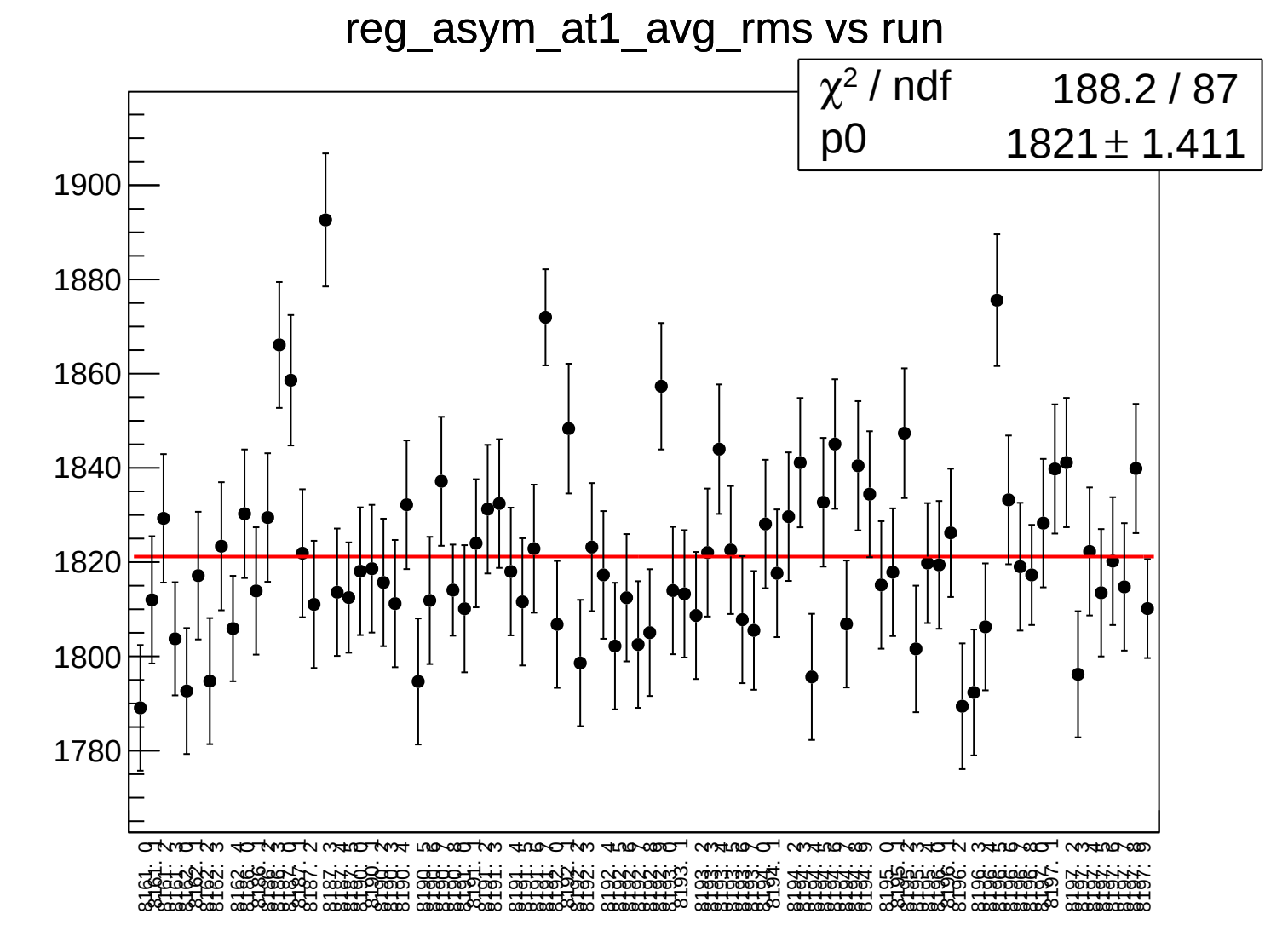

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.58 / 87
p0 1.149e−12 ± 4.848e−13
pull
Entries 88
Mean 3.577
Std Dev 0

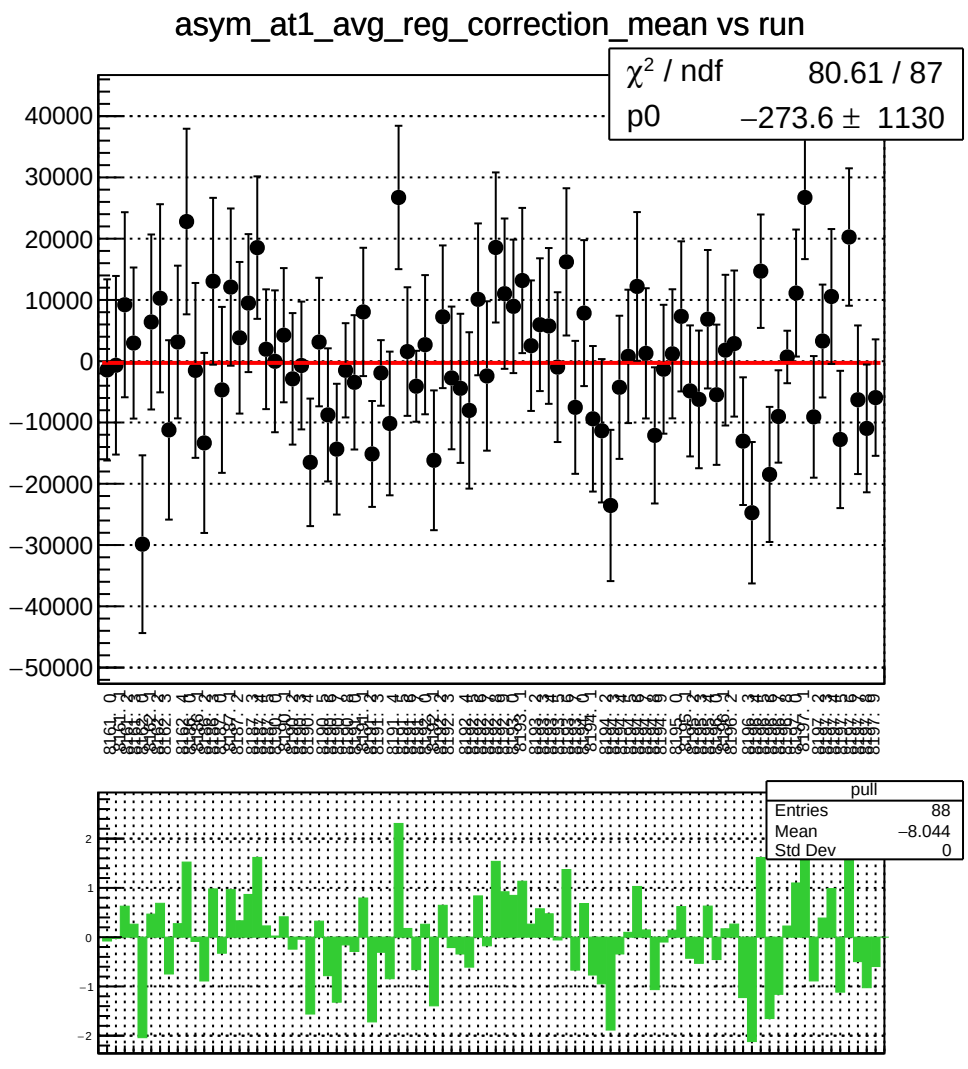

pull1D
Entries 88
Mean 0.01705
Std Dev 0.8954

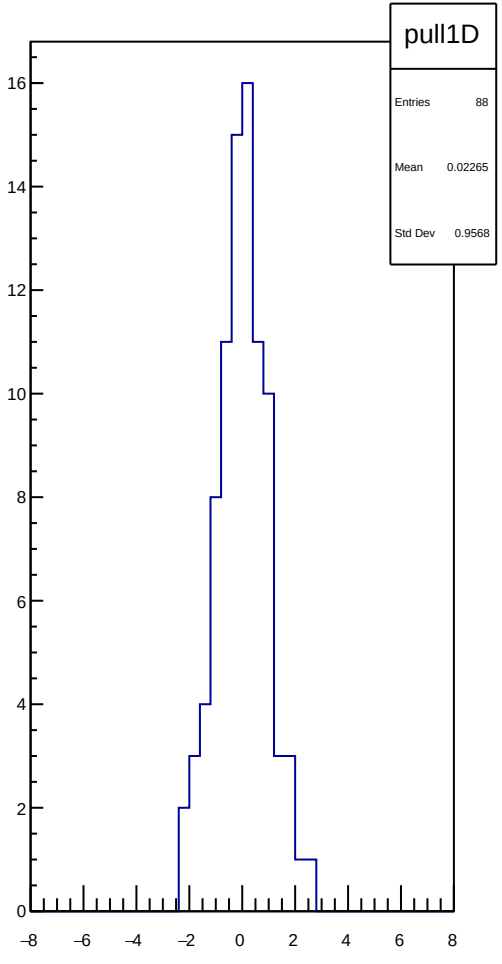

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 5.778e+05 / 87
p0 3.577e−10 ± 3.428e−13

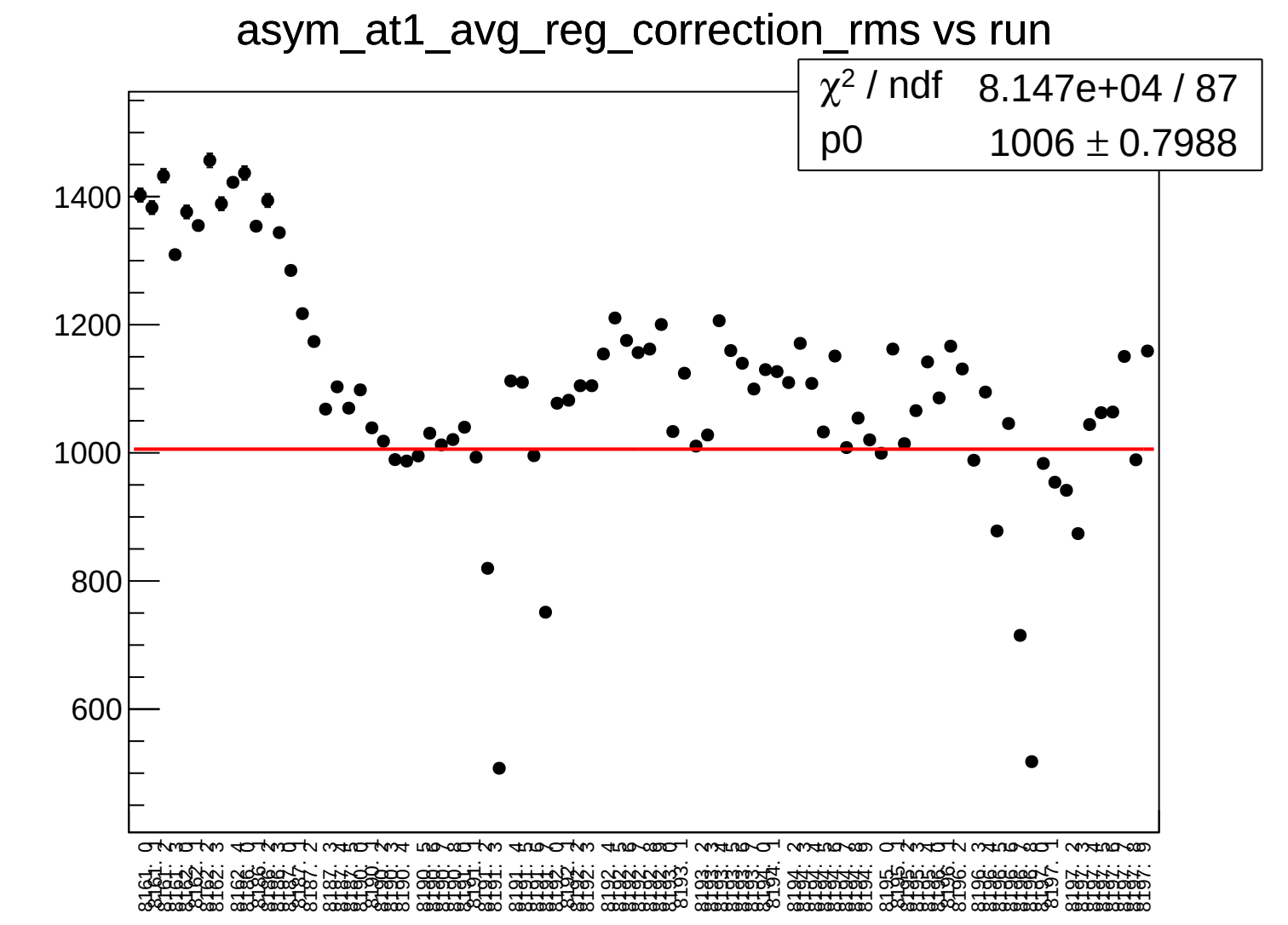

reg_asym_at1_avg_mean vs run
χ² / ndf 71.1 / 87
p0 1705 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1768
Std Dev 0
2
1
0
−1
−2

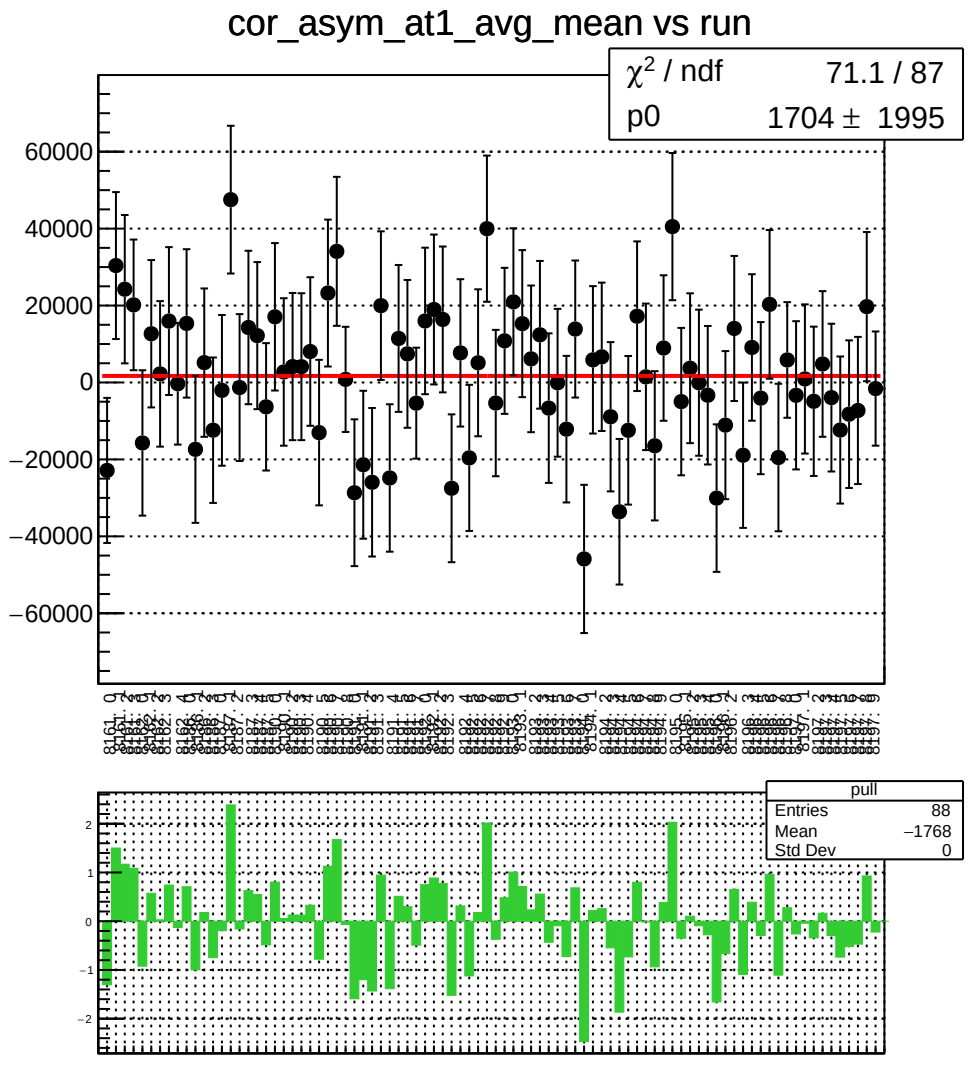

pull1D
Entries 88
Mean 0.002128
Std Dev 0.8989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

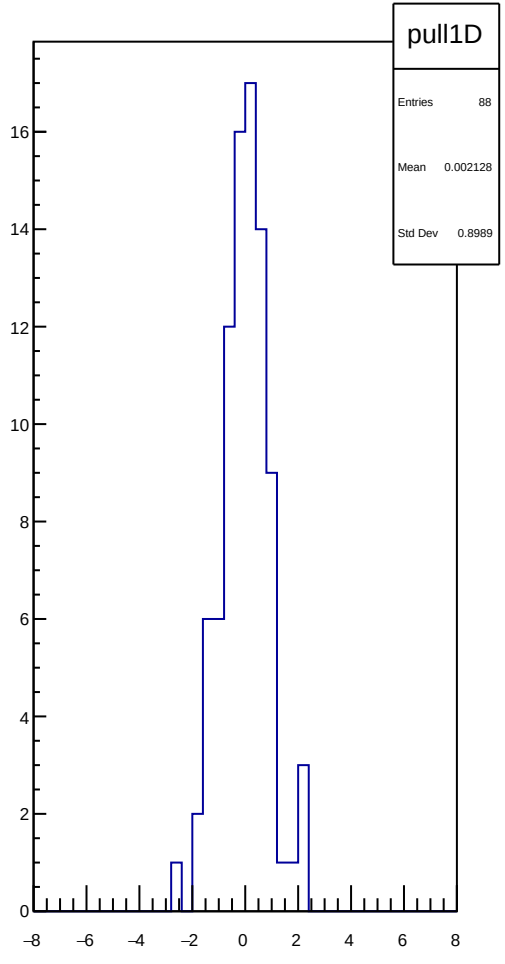

reg_asym_at1_avg_rms vs run
χ² / ndf 188.2 / 87
p0 1821 ± 1.411
1900
1880
1860
1840
1820
1800
1780

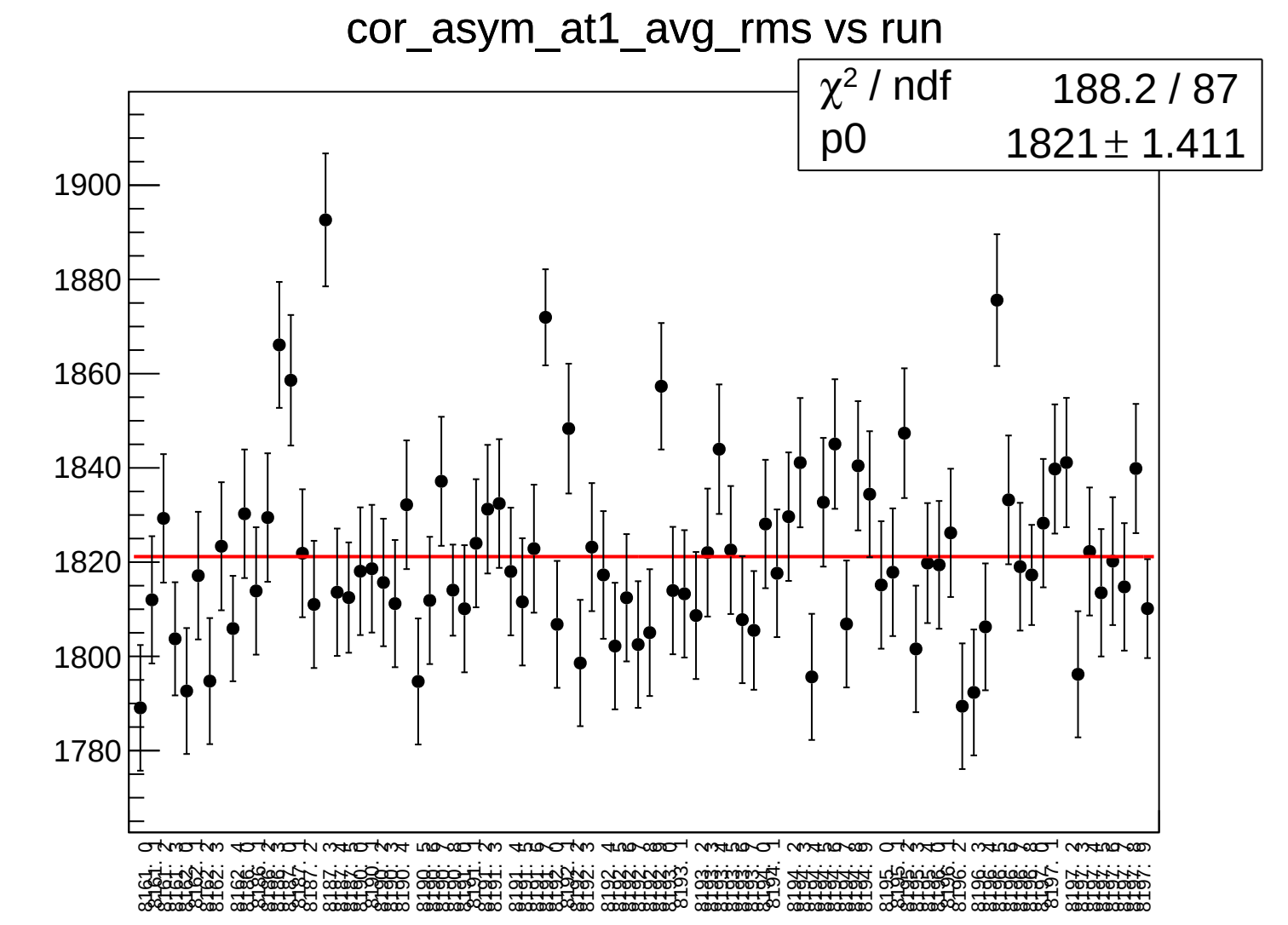

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 80.61 / 87
p0 −273.6 ± 1130
pull
Entries 88
Mean −8.044
Std Dev 0

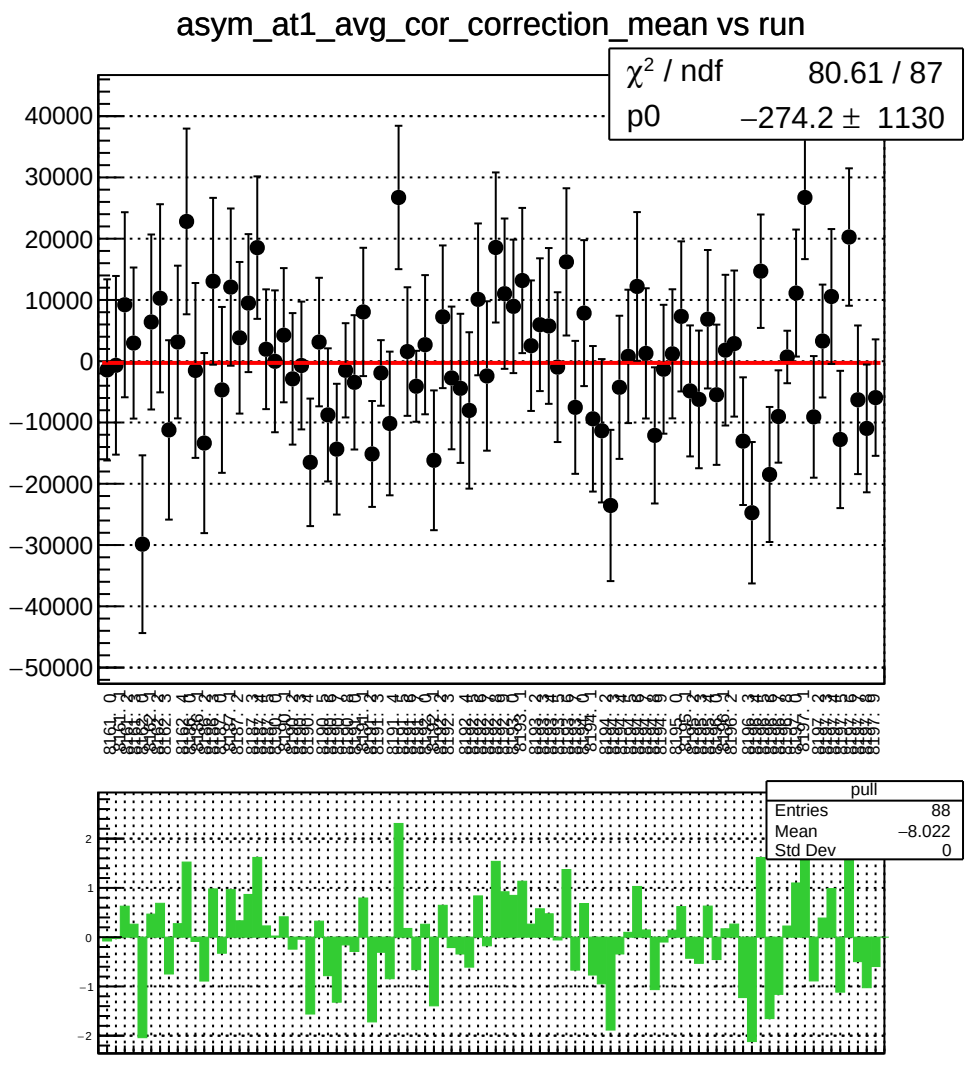

pull1D
Entries 88
Mean 0.02265
Std Dev 0.9568

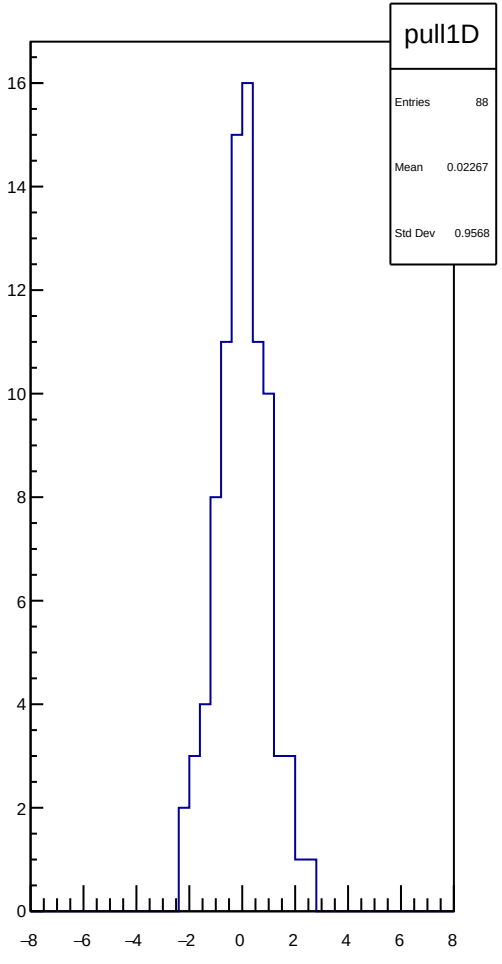

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 8.147e+04 / 87
p0 1006 ± 0.7988
1400
1200
1000
800
600

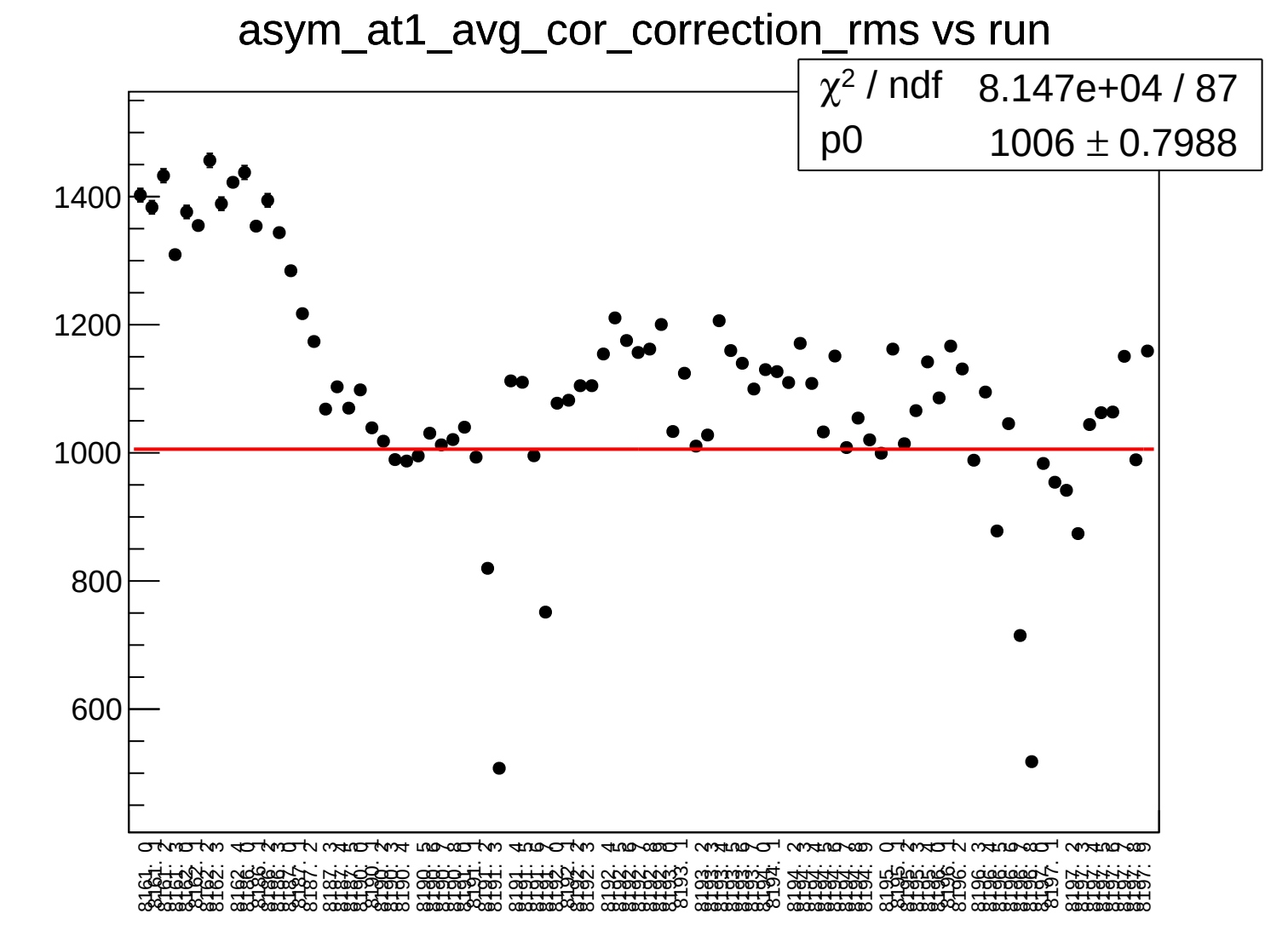

cor_asym_at1_avg_mean vs run
χ² / ndf 71.1 / 87
p0 1704 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1768
Std Dev 0
2
1
0
−1
−2

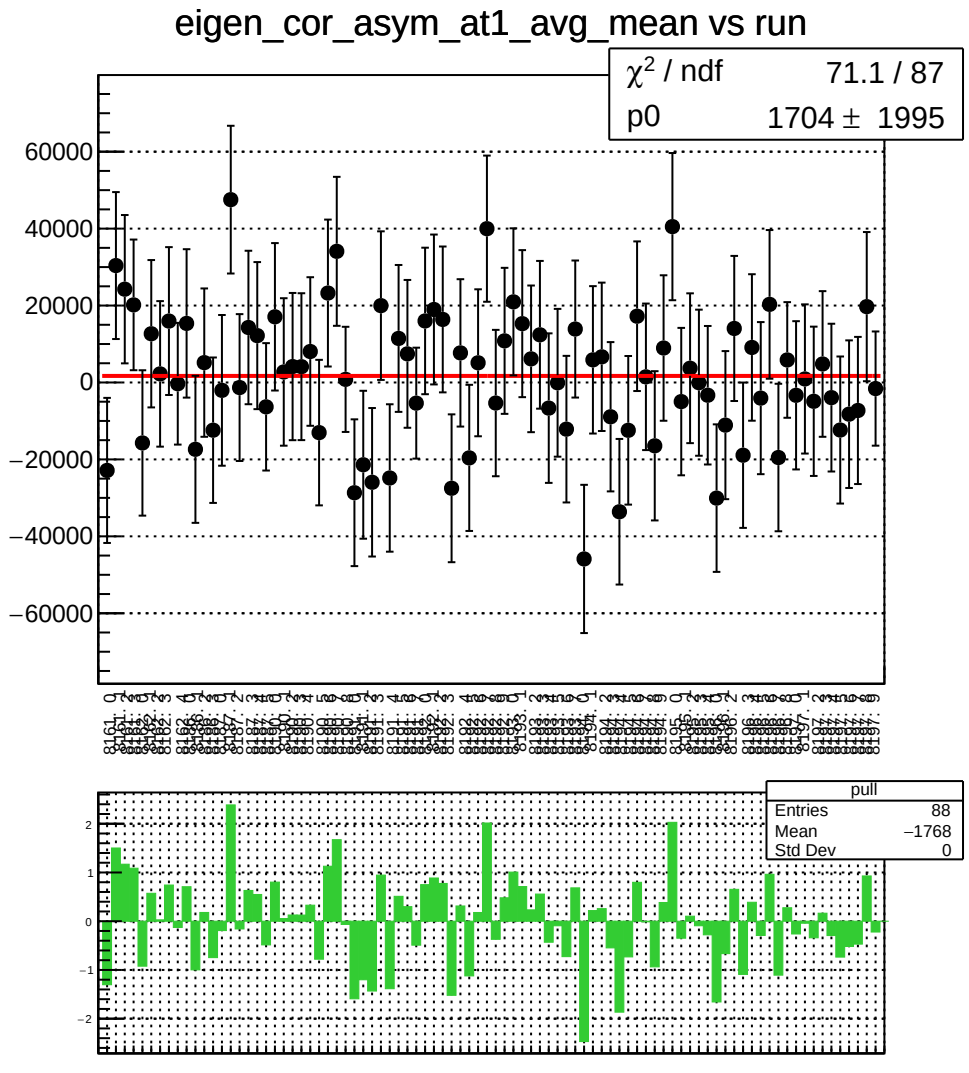

pull1D
Entries 88
Mean 0.002128
Std Dev 0.8989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

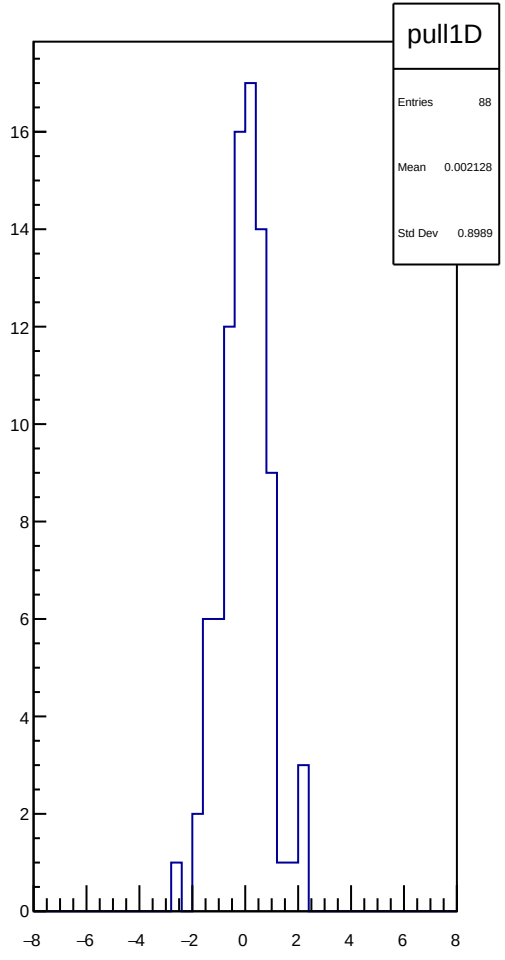

cor_asym_at1_avg_rms vs run
χ² / ndf 188.2 / 87
p0 1821 ± 1.411
1900
1880
1860
1840
1820
1800
1780

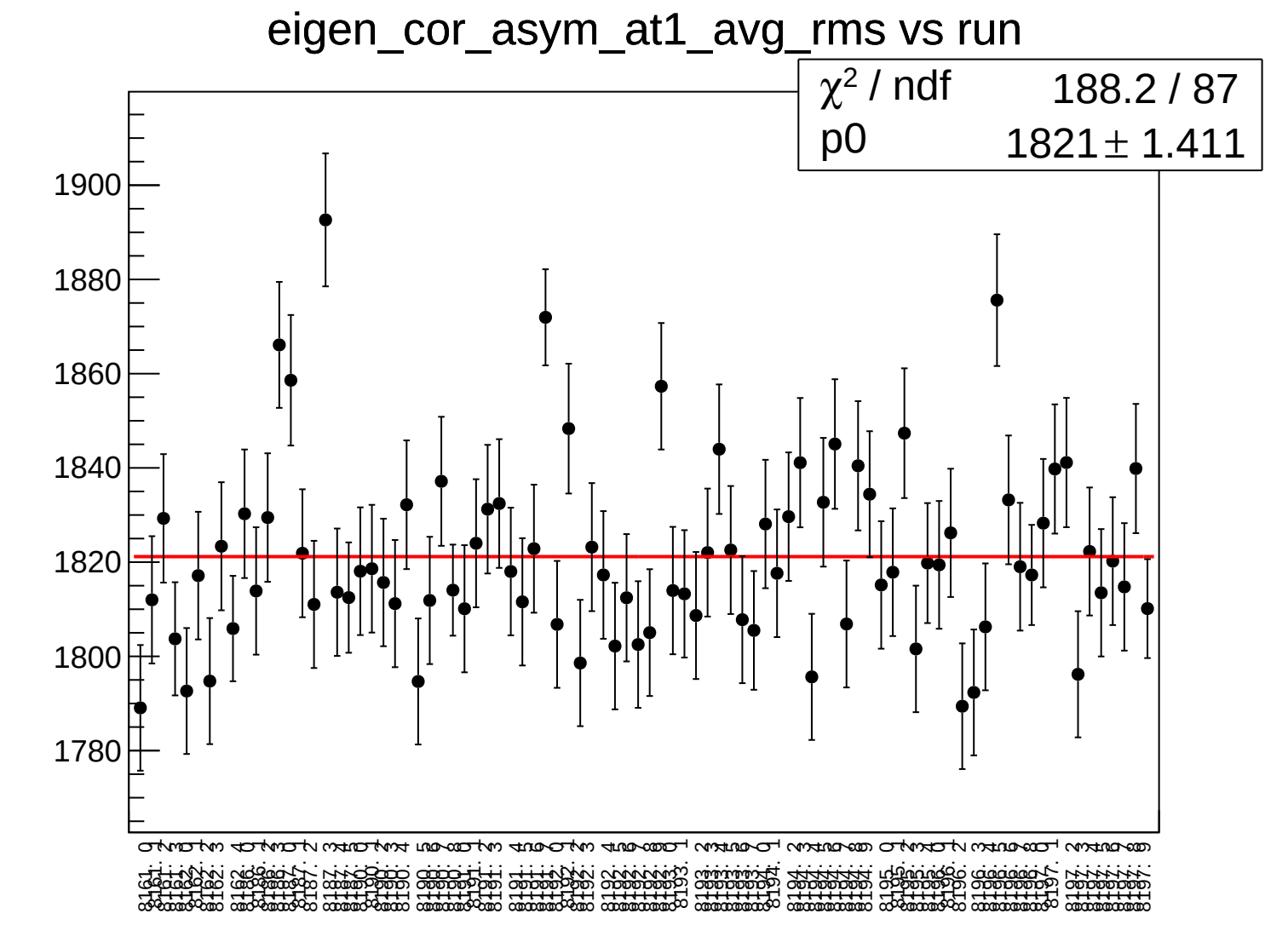

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 80.61 / 87
p0 −274.2 ± 1130
pull
Entries 88
Mean −8.022
Std Dev 0

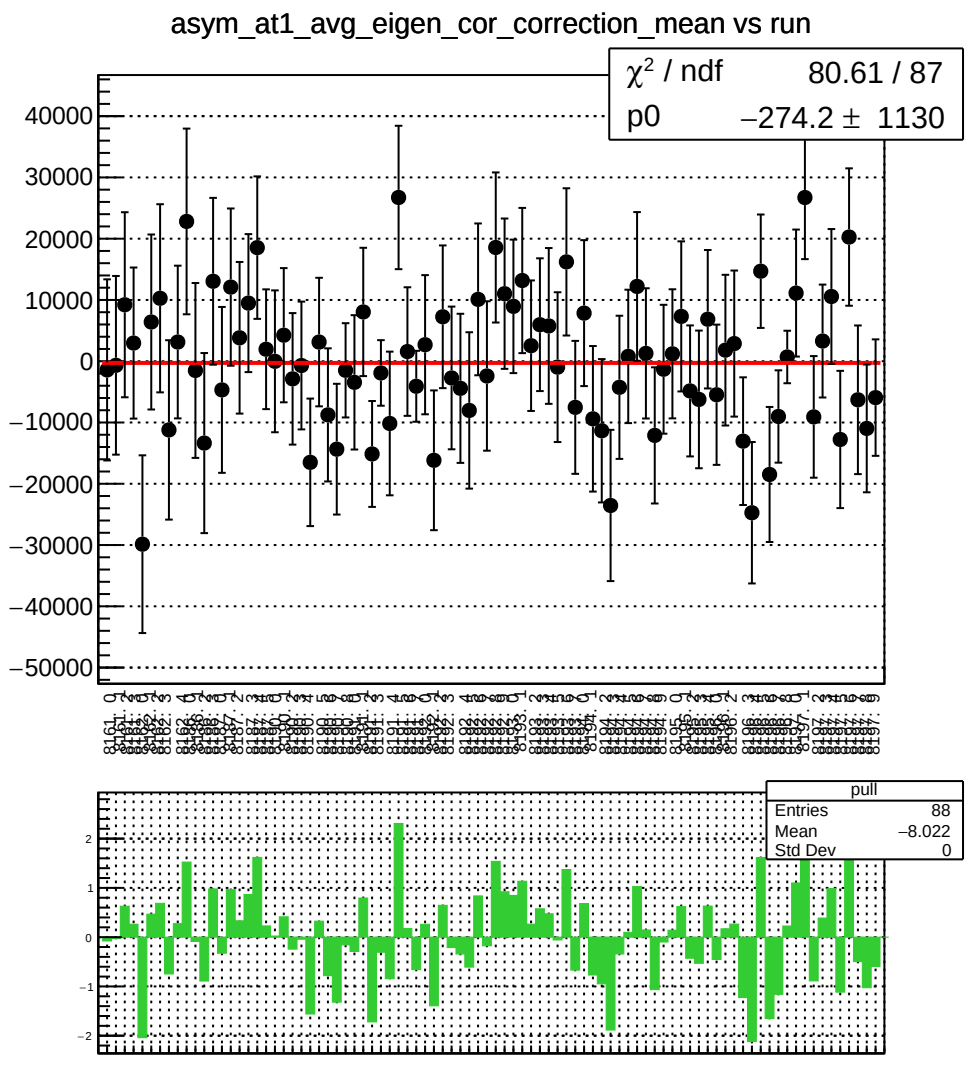

pull1D
Entries 88
Mean 0.02267
Std Dev 0.9568

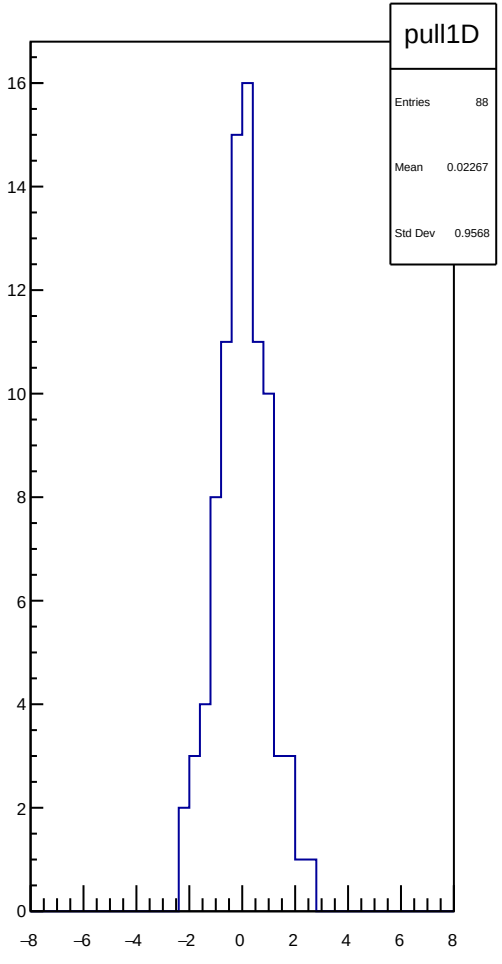

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 8.147e+04 / 87
p0 1006 ± 0.7988
1400
1200
1000
800
600

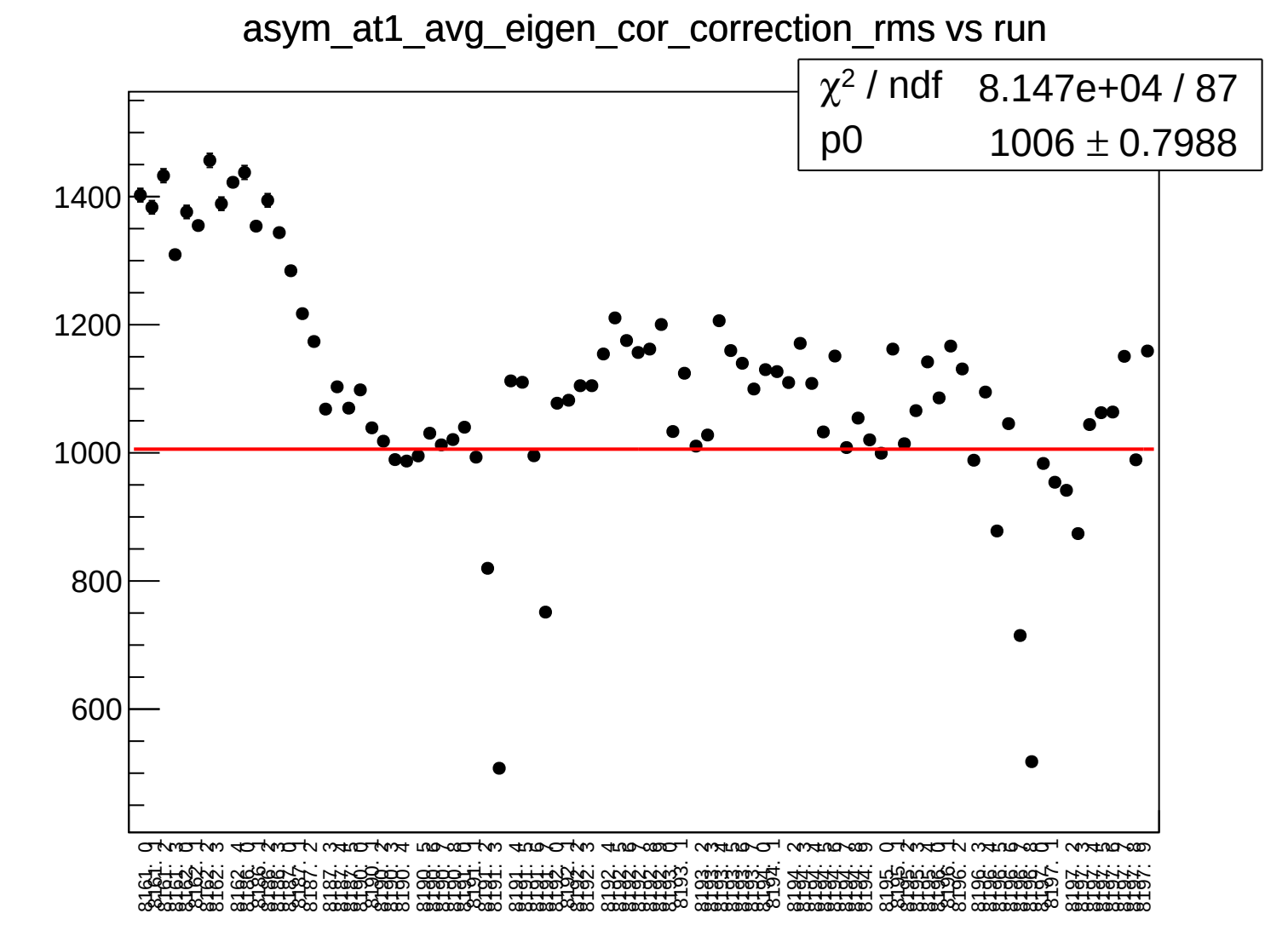

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 71.1 / 87
p0 1704 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1768
Std Dev 0
2
1
0
−1
−2

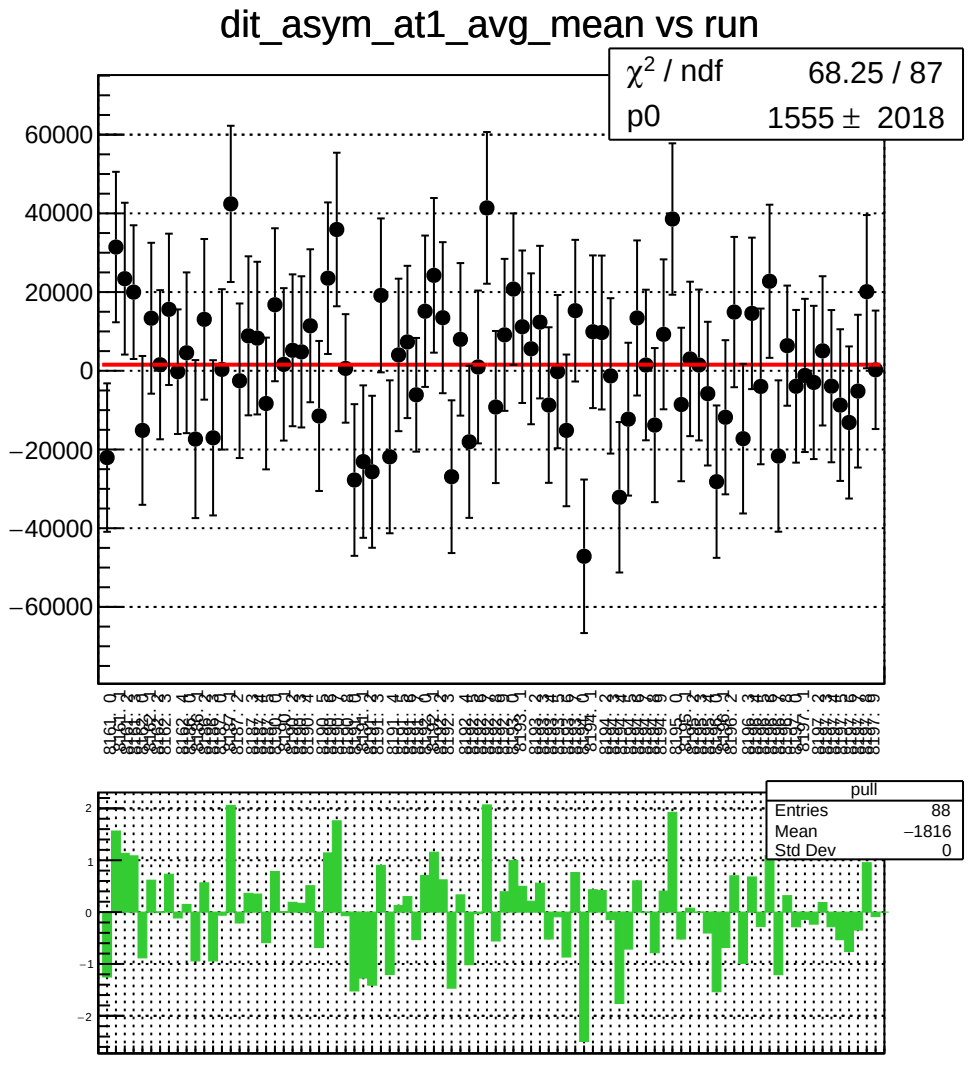

pull1D
Entries 88
Mean 0.002128
Std Dev 0.8989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

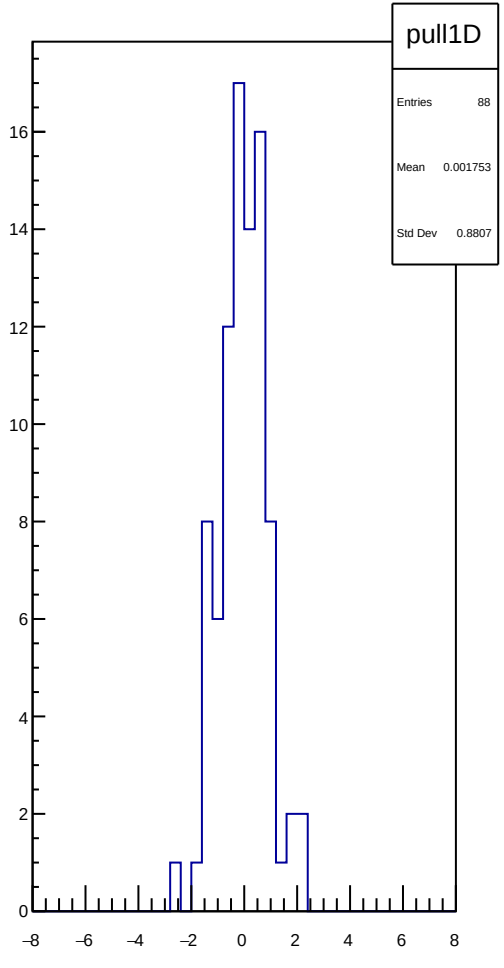

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 188.2 / 87
p0 1821 ± 1.411
1900
1880
1860
1840
1820
1800
1780

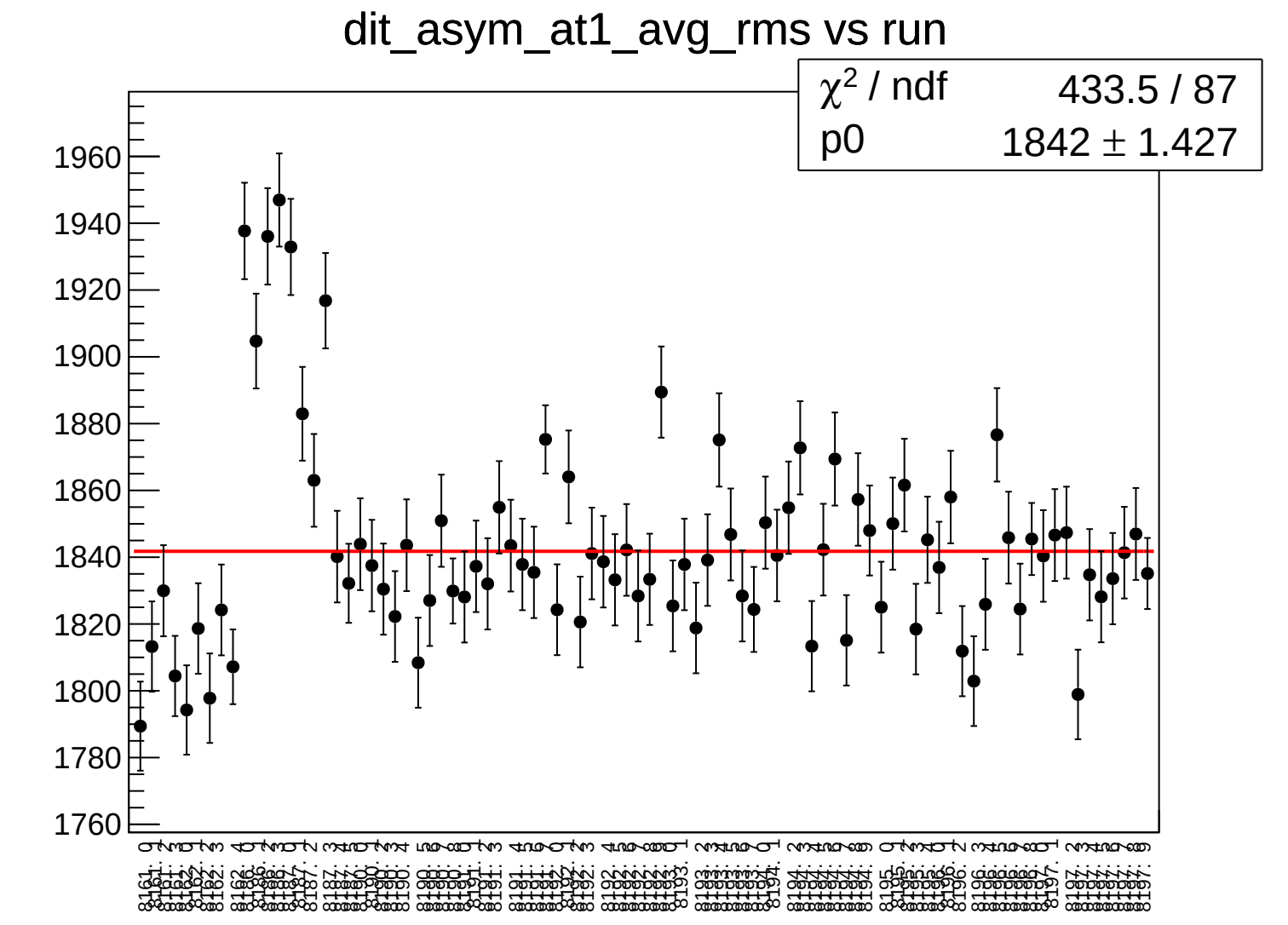

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.61 / 87
p0 −274.2 ± 1130
pull
Entries 88
Mean −8.022
Std Dev 0

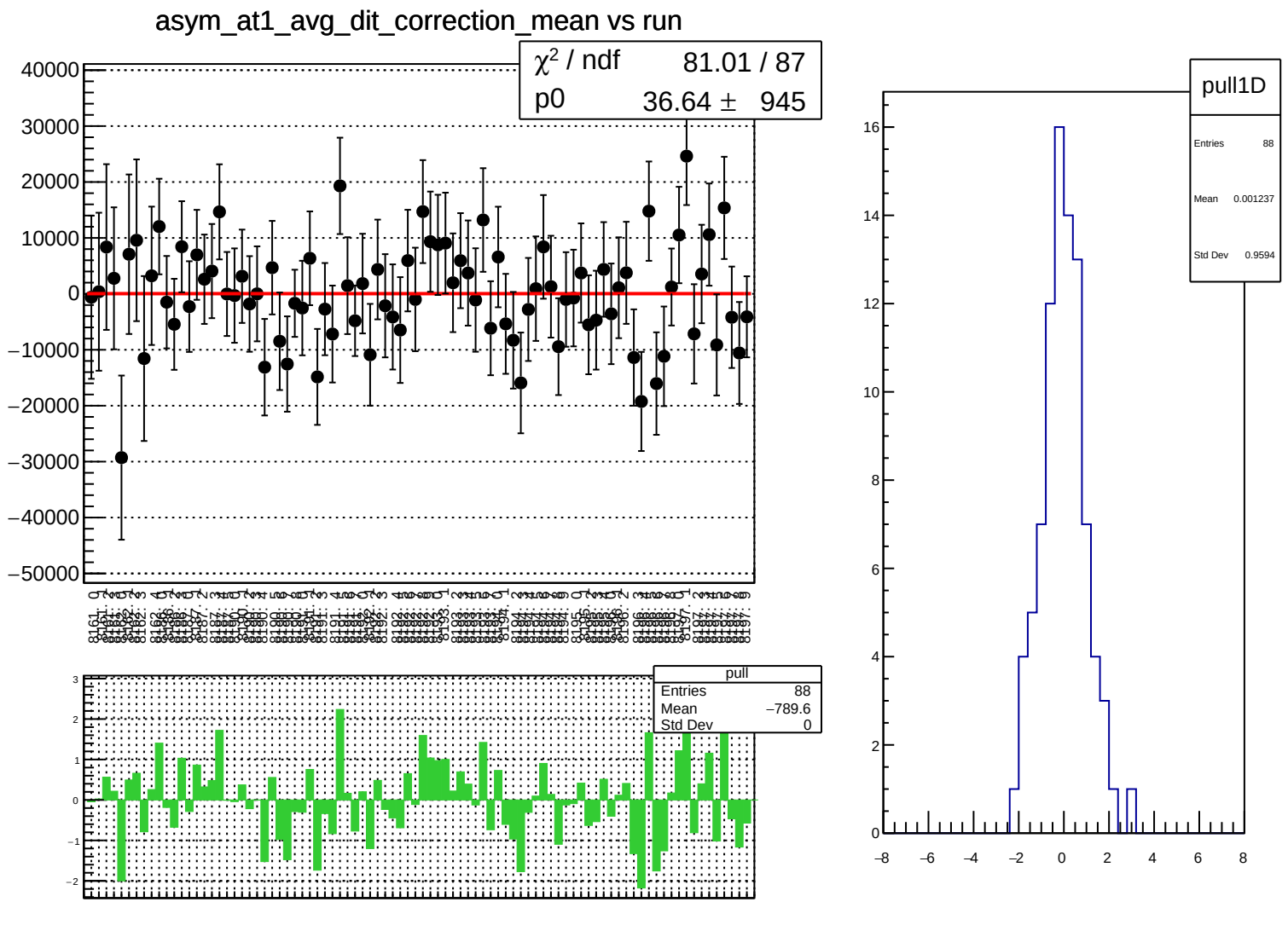

pull1D
Entries 88
Mean 0.02267
Std Dev 0.9568

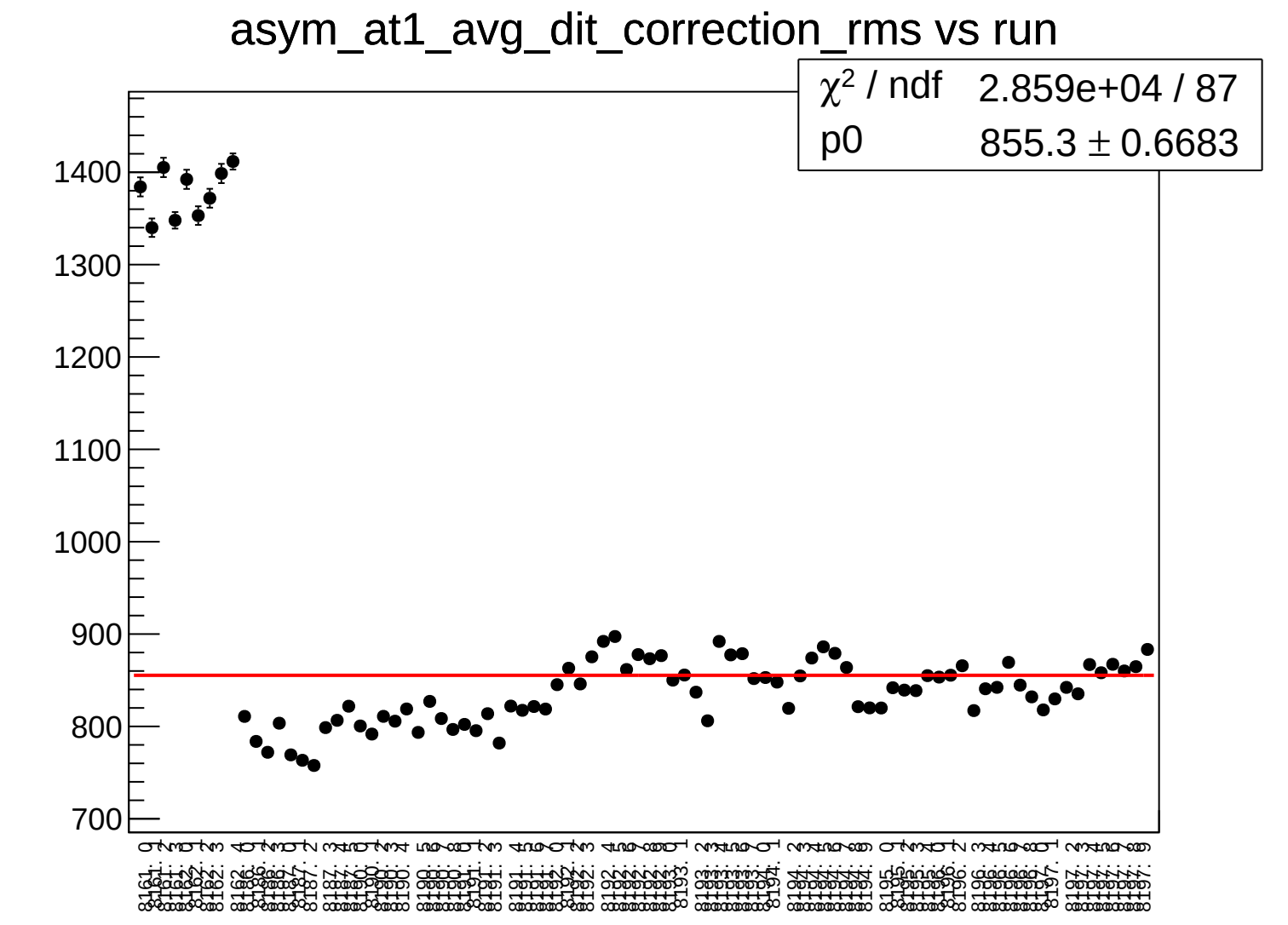

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8.147e+04 / 87
p0 1006 ± 0.7988
1400
1200
1000
800
600

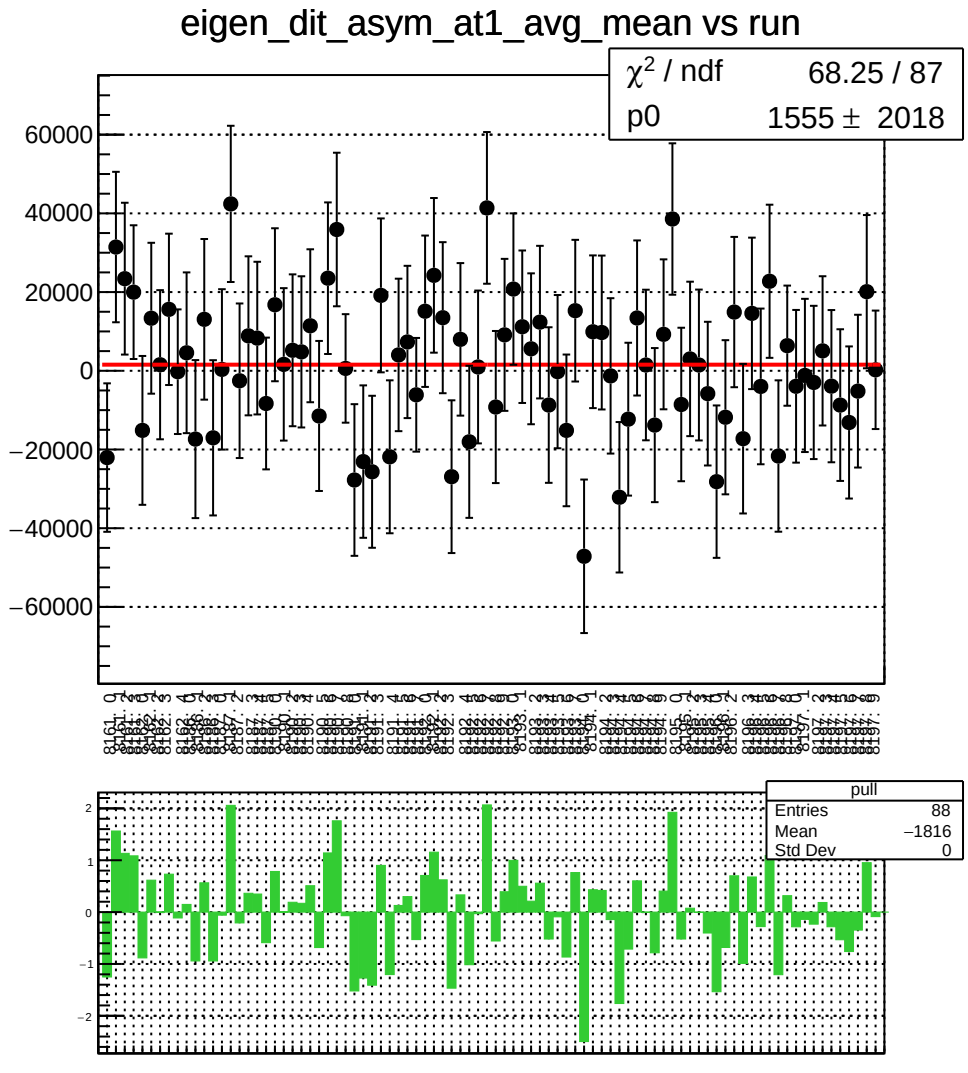

dit_asym_at1_avg_mean vs run
χ² / ndf 68.25 / 87
p0 1555 ± 2018
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1816
Std Dev 0
2
1
0
−1
−2

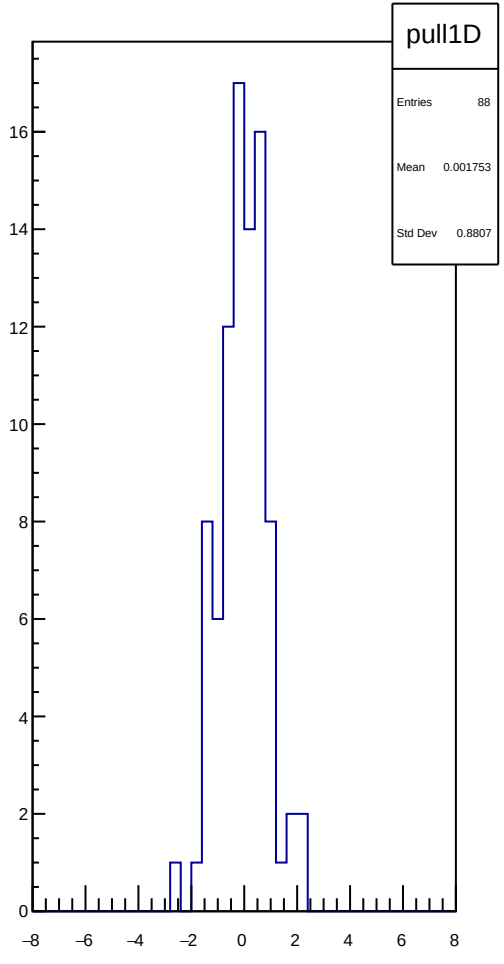

pull1D
Entries 88
Mean 0.001753
Std Dev 0.8807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

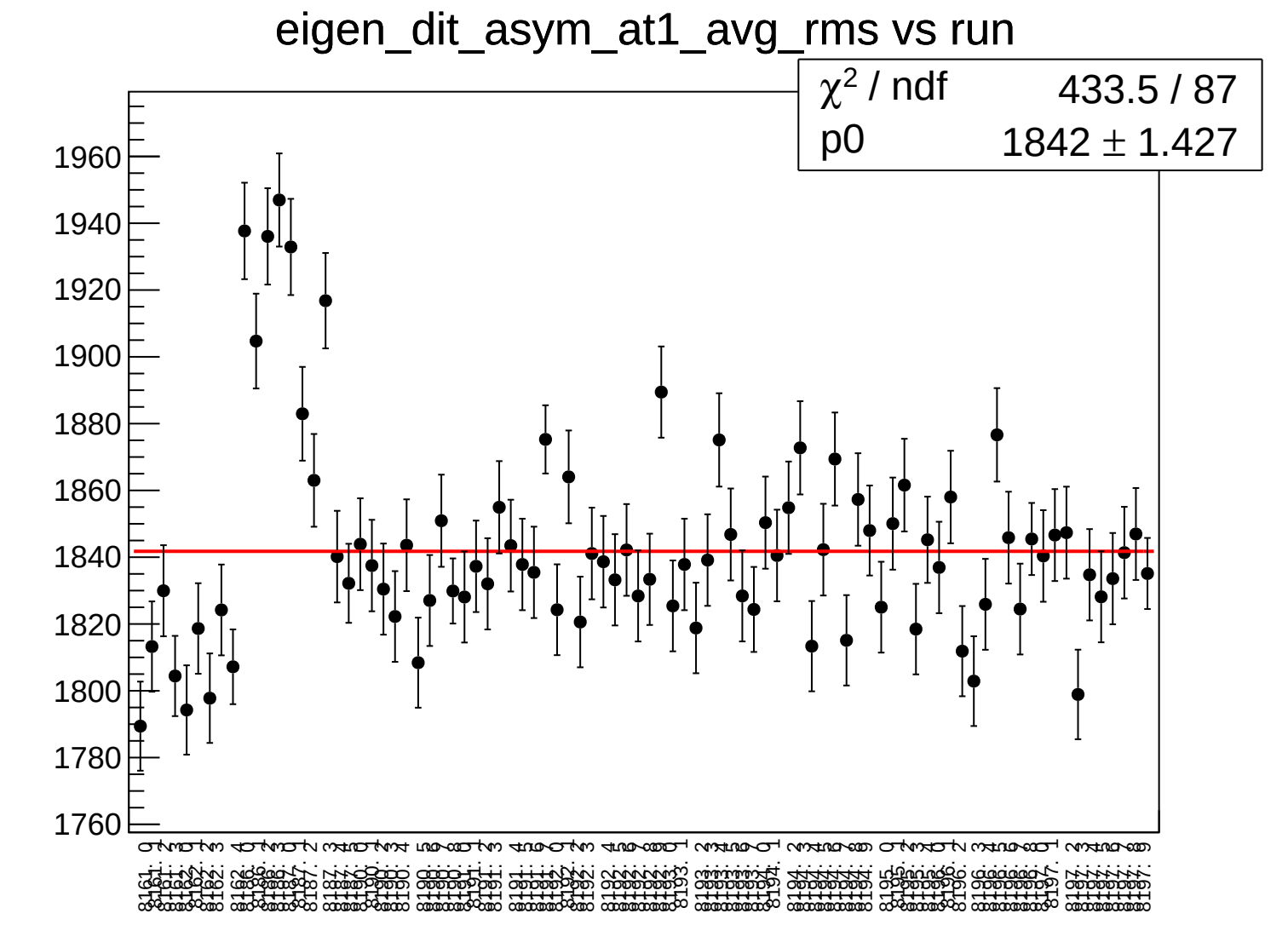

dit_asym_at1_avg_rms vs run
χ^2 / ndf 433.5 / 87
p0 1842 ± 1.427
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

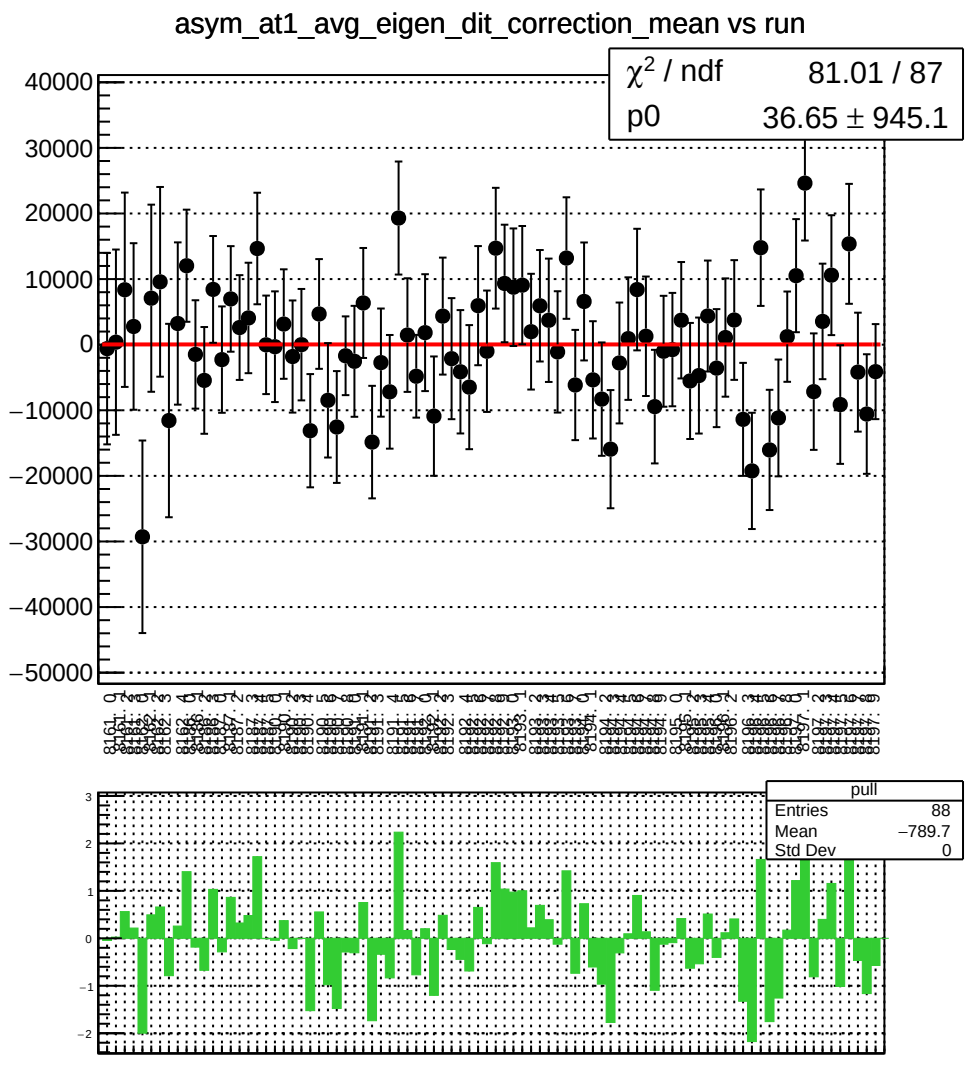

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 81.01 / 87
p0 36.64 ± 945
pull
Entries 88
Mean −789.6
Std Dev 0
pull1D
Entries 88
Mean 0.001237
Std Dev 0.9594

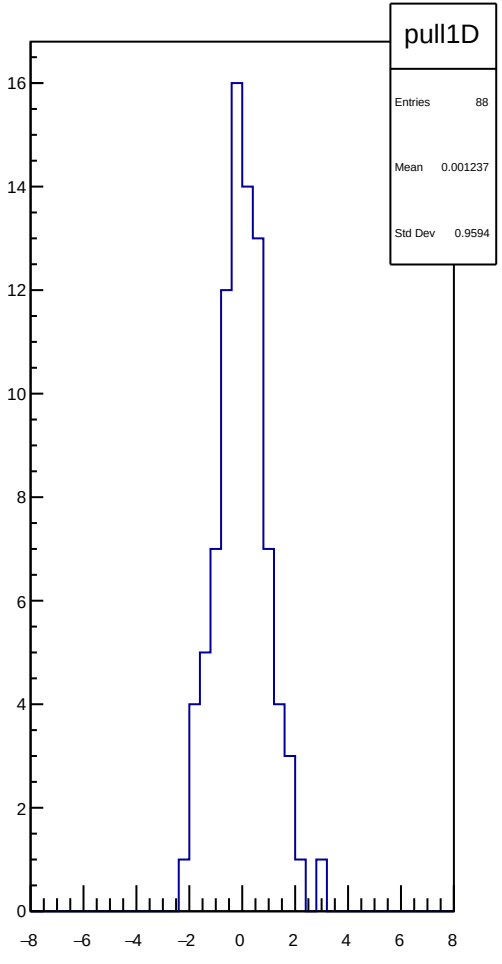

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 2.859e+04 / 87
p0 855.3 ± 0.6683
1400
1300
1200
1100
1000
900
800
700

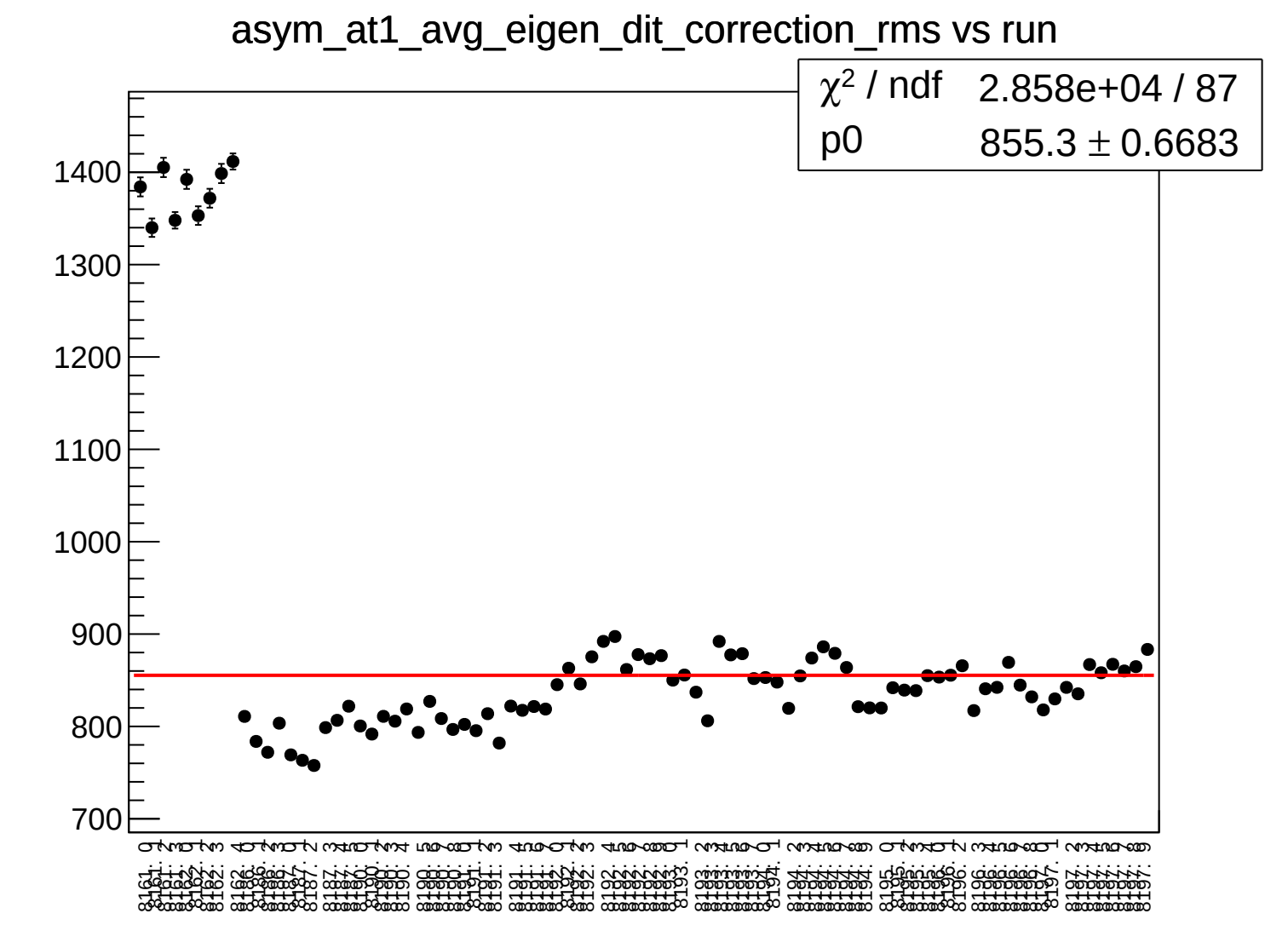

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 68.25 / 87
p0 1555 ± 2018
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1816
Std Dev 0
2
1
0
−1
−2

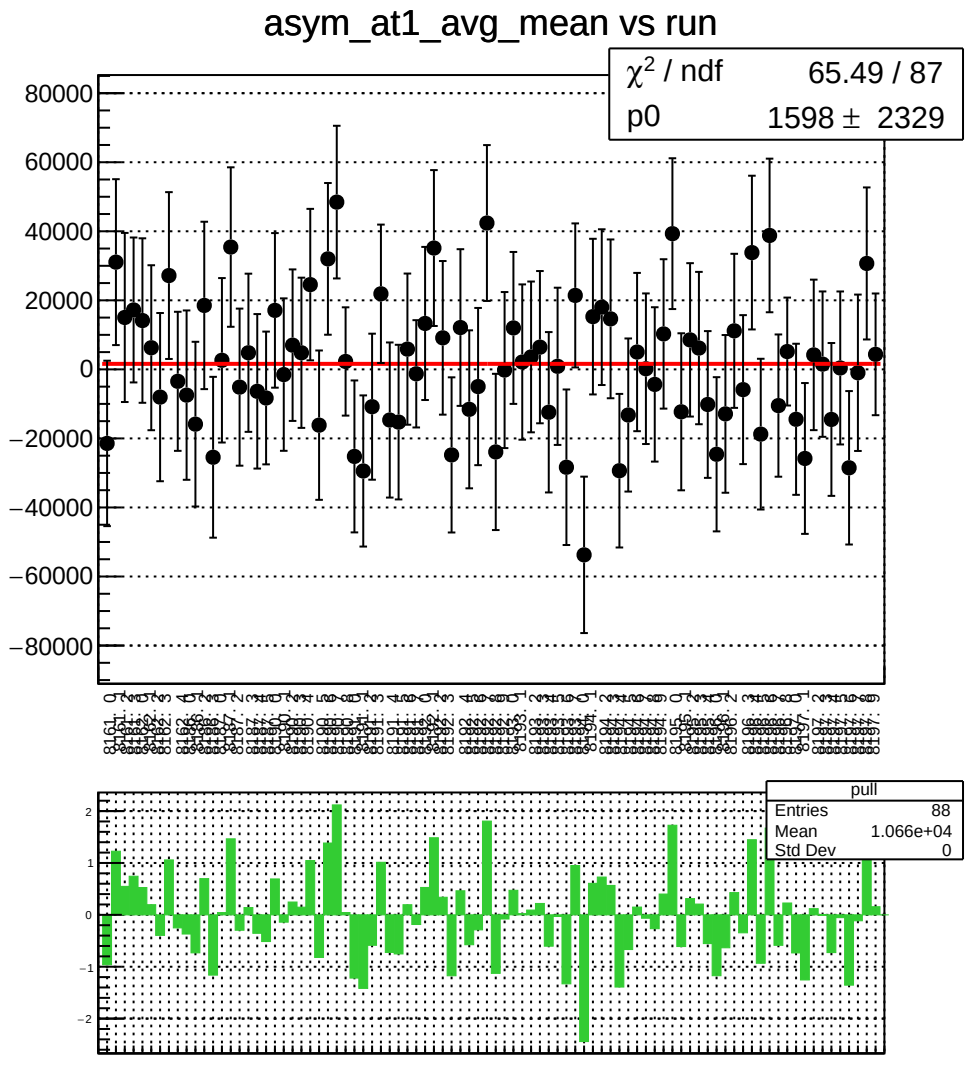

pull1D
Entries 88
Mean 0.001753
Std Dev 0.8807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

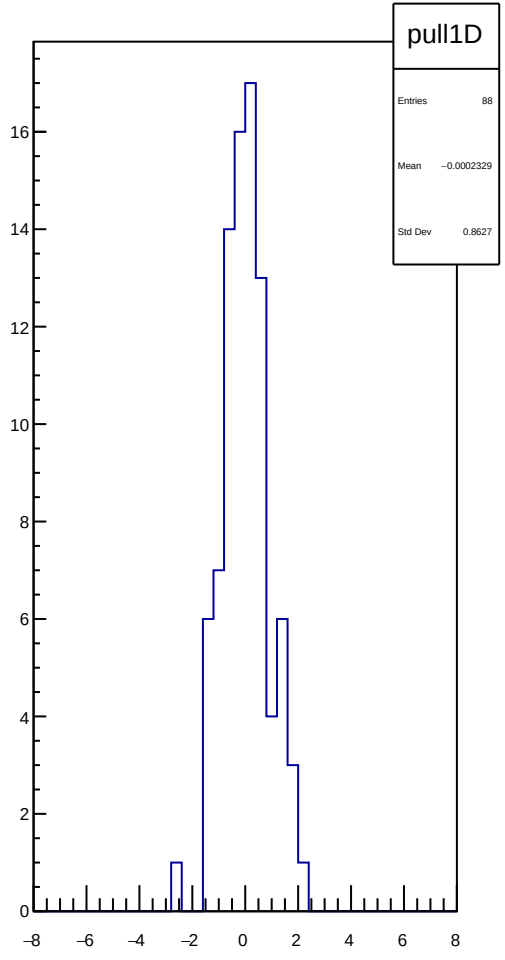

eigen_dit_asym_at1_avg_rms vs run
χ^2 / ndf 433.5 / 87
p0 1842 ± 1.427
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

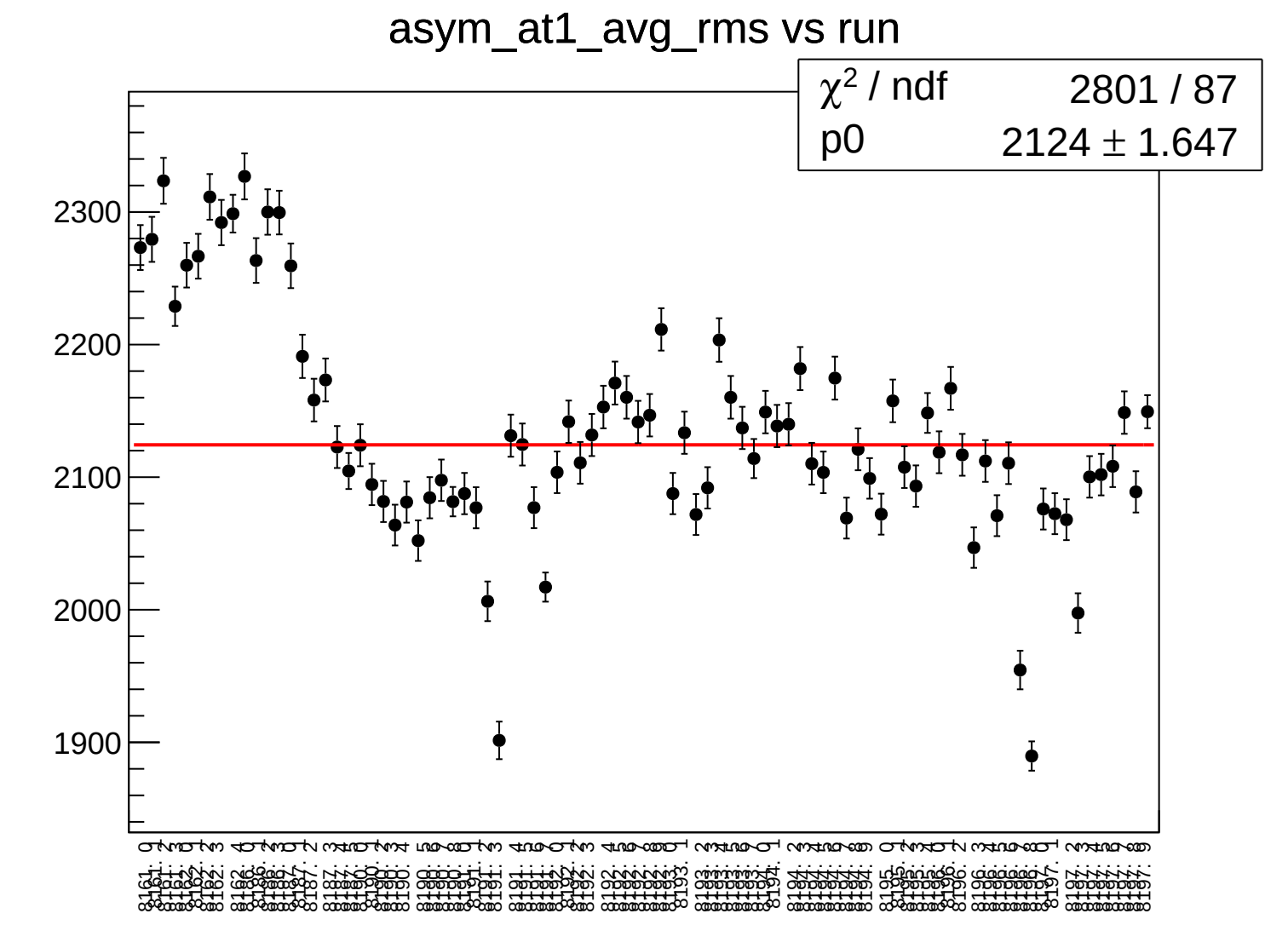

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.01 / 87
p0 36.65 ± 945.1
pull
Entries 88
Mean −789.7
Std Dev 0

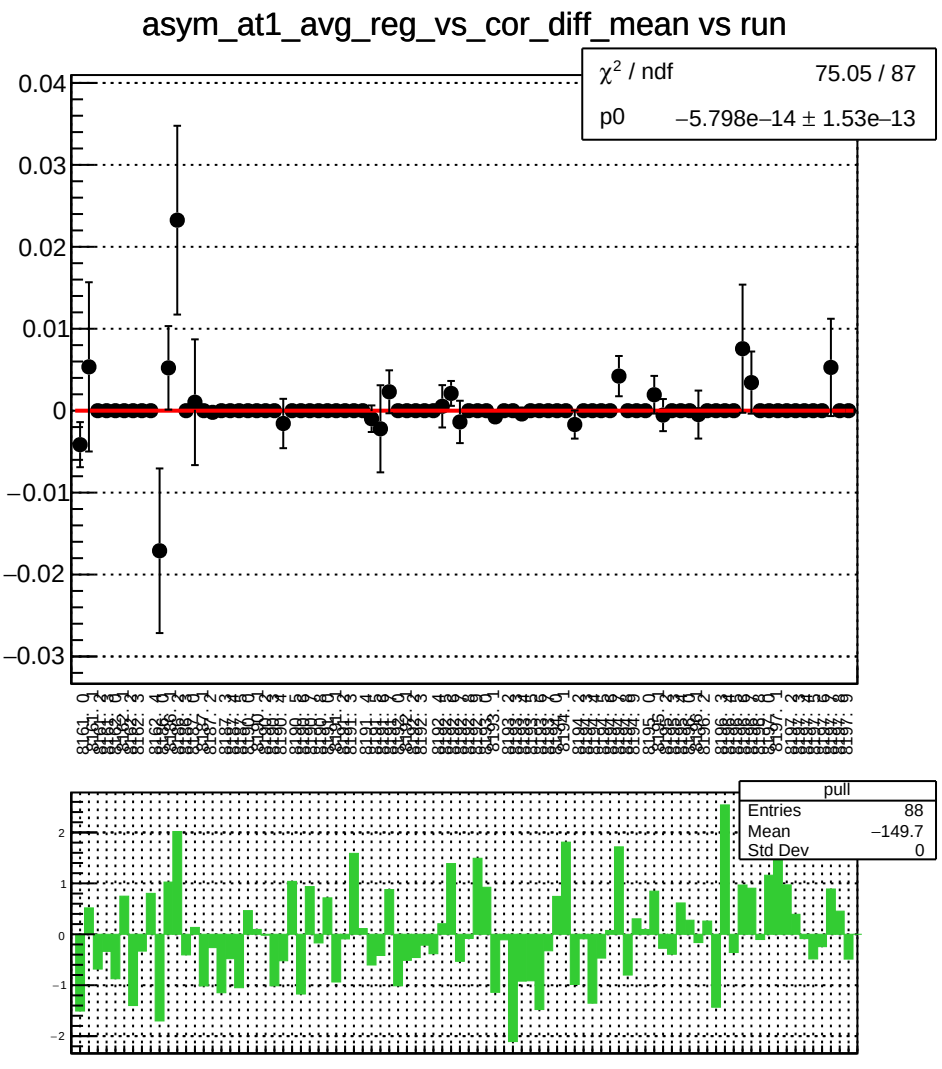

pull1D
Entries 88
Mean 0.001237
Std Dev 0.9594

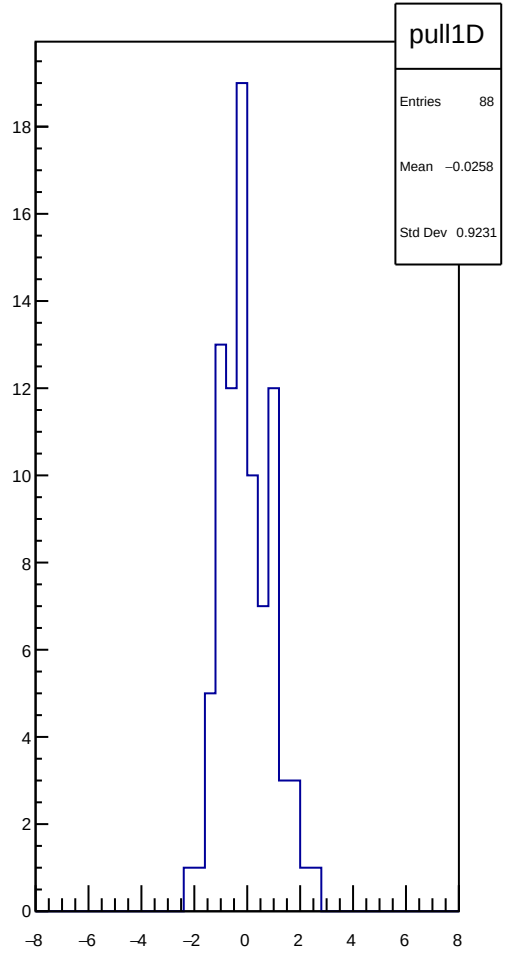

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.858e+04 / 87
p0 855.3 ± 0.6683
1400
1300
1200
1100
1000
900
800
700

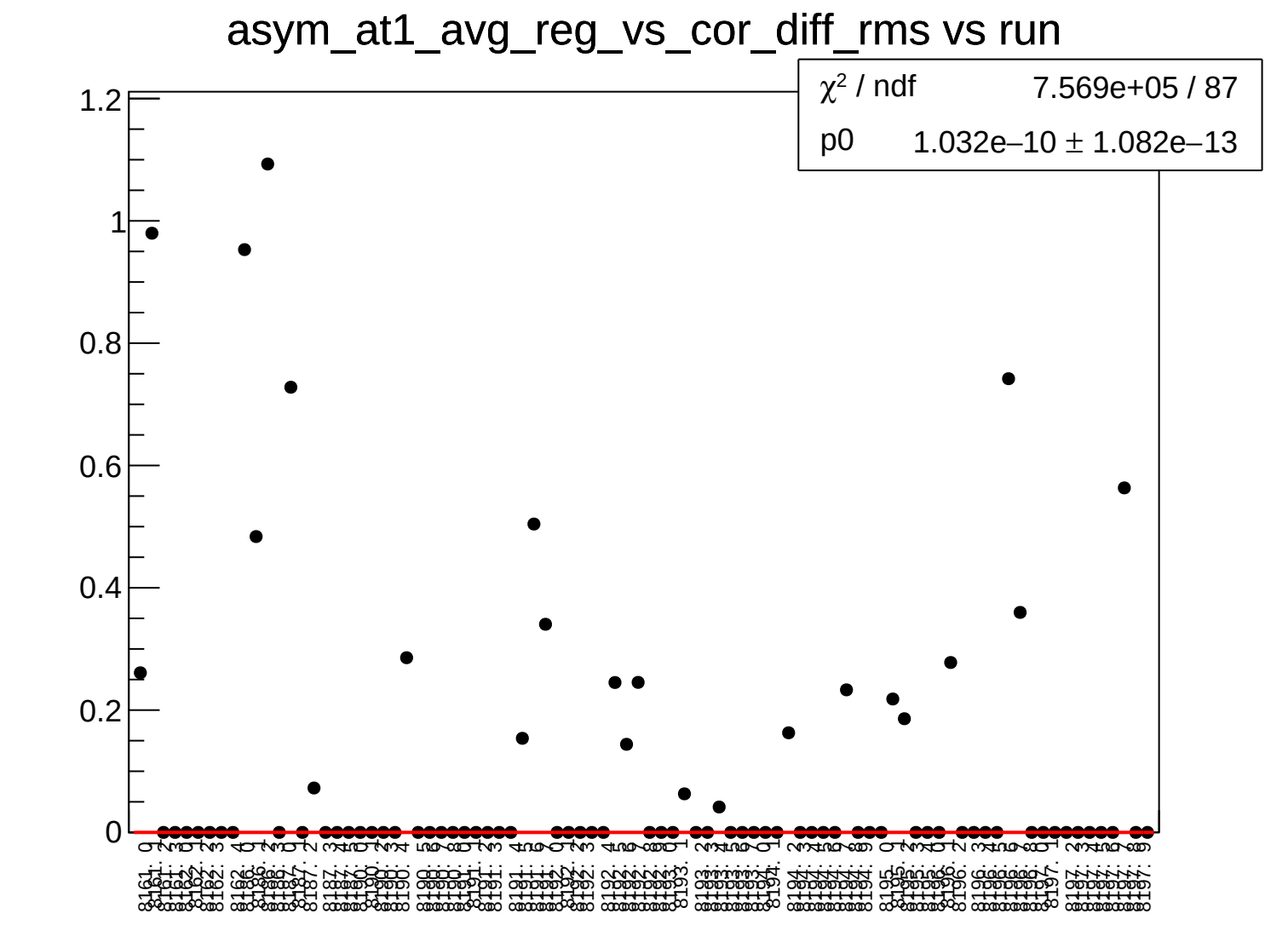

asym_at1_avg_mean vs run
χ² / ndf 65.49 / 87
p0 1598 ± 2329
pull
Entries 88
Mean 1.066e+04
Std Dev 0

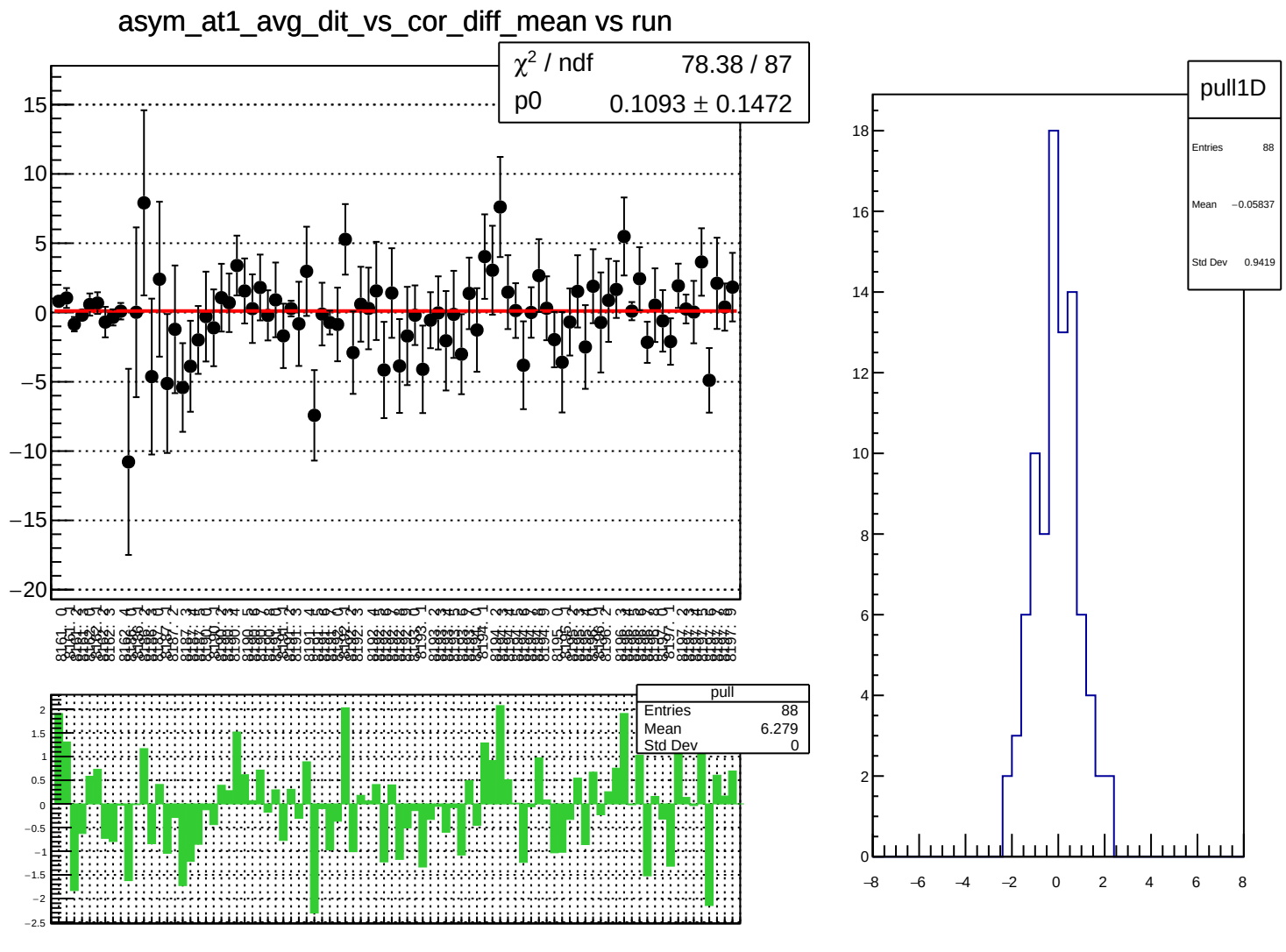

pull1D
Entries 88
Mean −0.0002329
Std Dev 0.8627

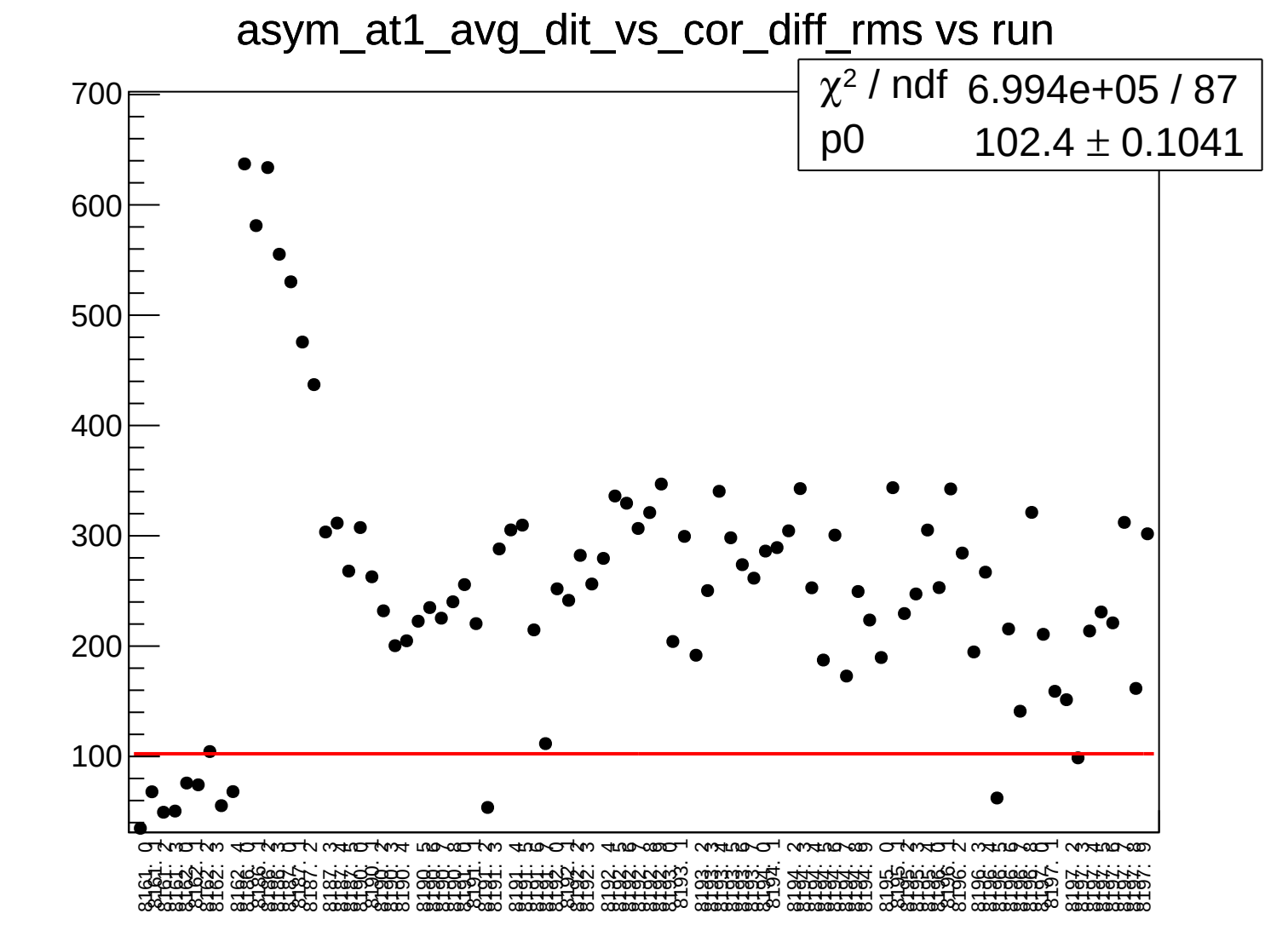

asym_at1_avg_rms vs run
χ^2 / ndf 2801 / 87
p0 2124 ± 1.647
2300
2200
2100
2000
1900

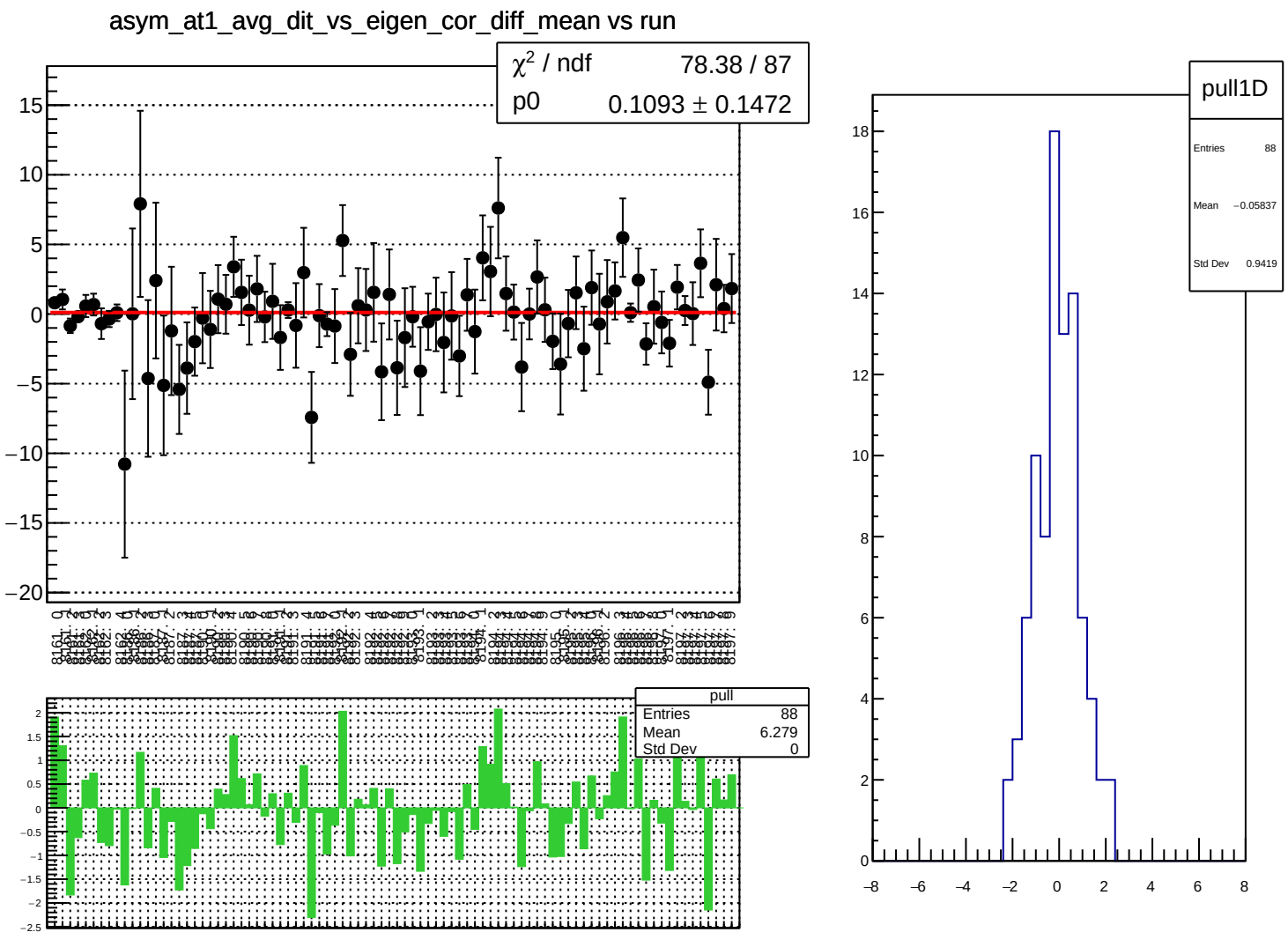

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.05 / 87
p0 −5.798e−14 ± 1.53e−13
pull
Entries 88
Mean −149.7
Std Dev 0

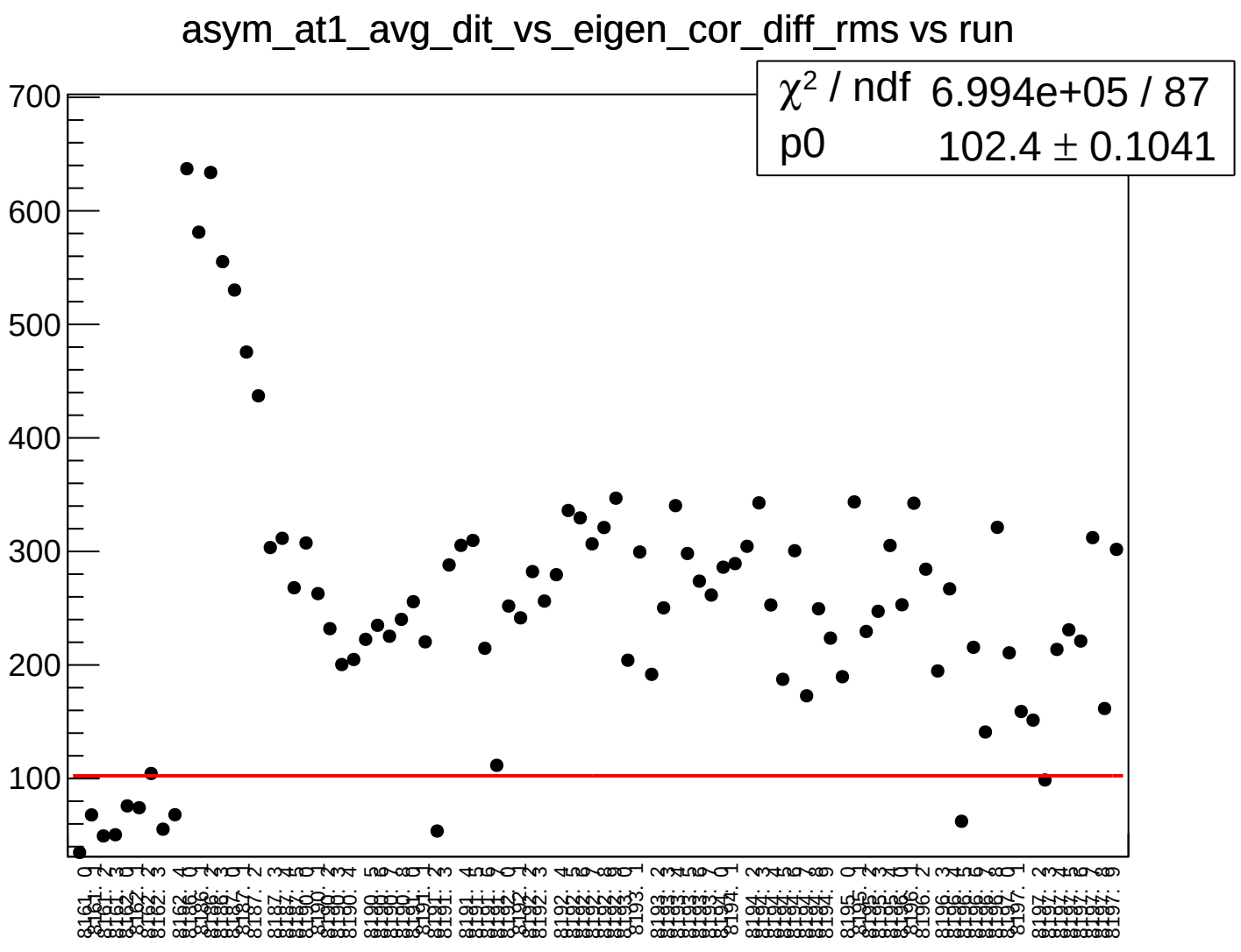

pull1D
Entries 88
Mean −0.0258
Std Dev 0.9231

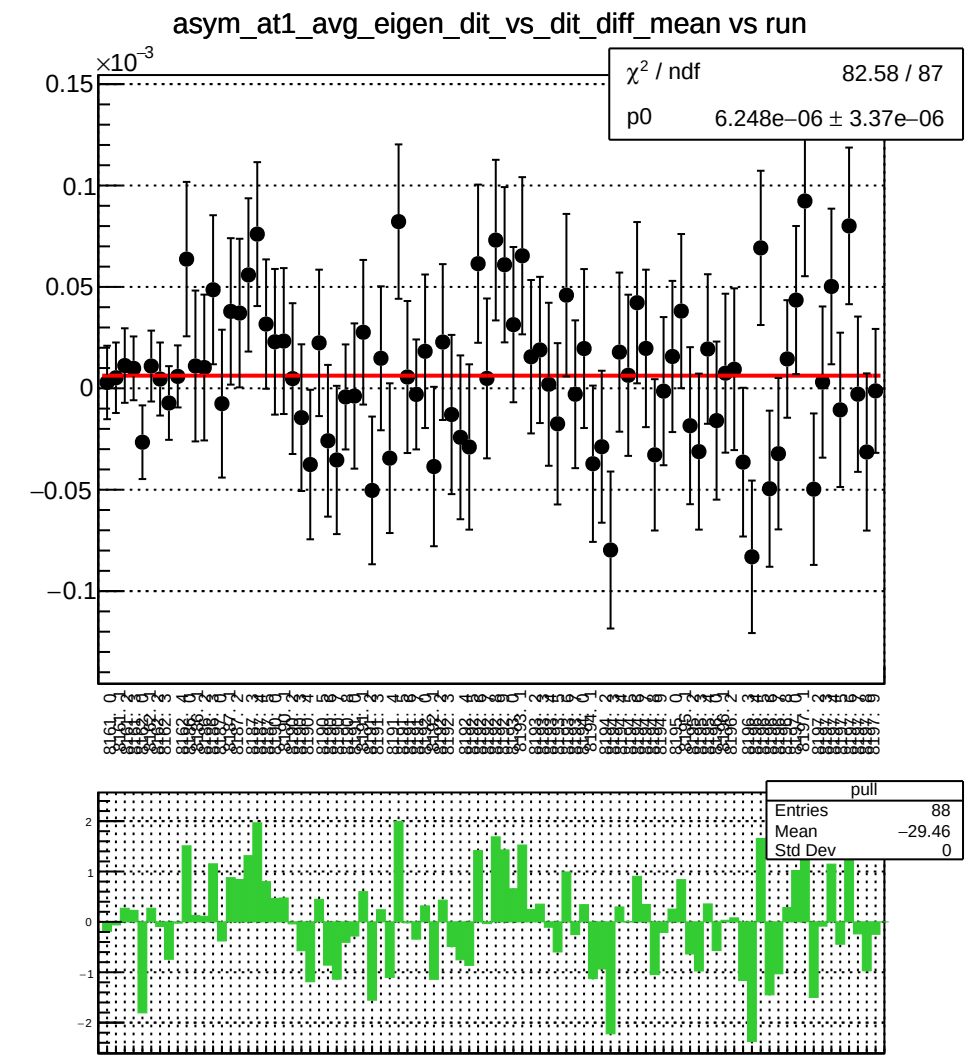

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.569e+05 / 87
p0 1.032e−10 ± 1.082e−13
1.2
1
0.8
0.6
0.4
0.2
0

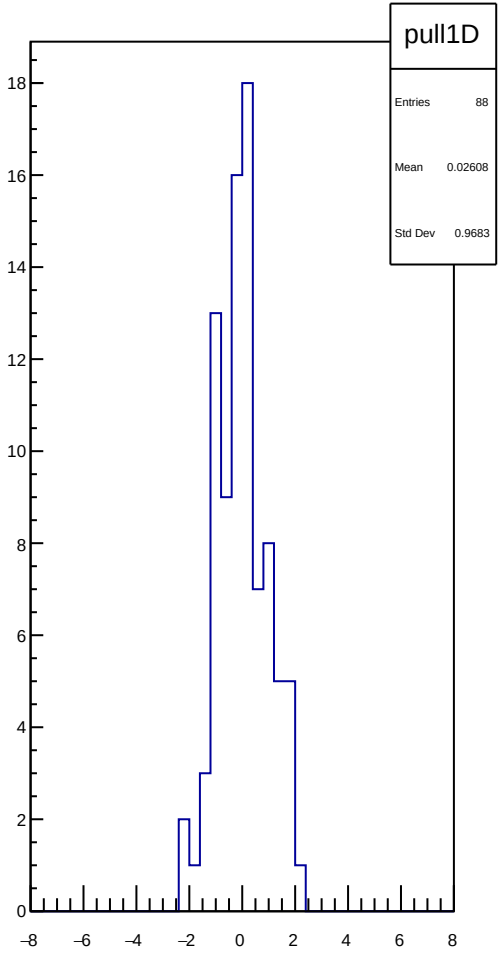

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.38 / 87
p0 0.1093 ± 0.1472
pull
Entries 88
Mean 6.279
Std Dev 0
pull1D
Entries 88
Mean −0.05837
Std Dev 0.9419

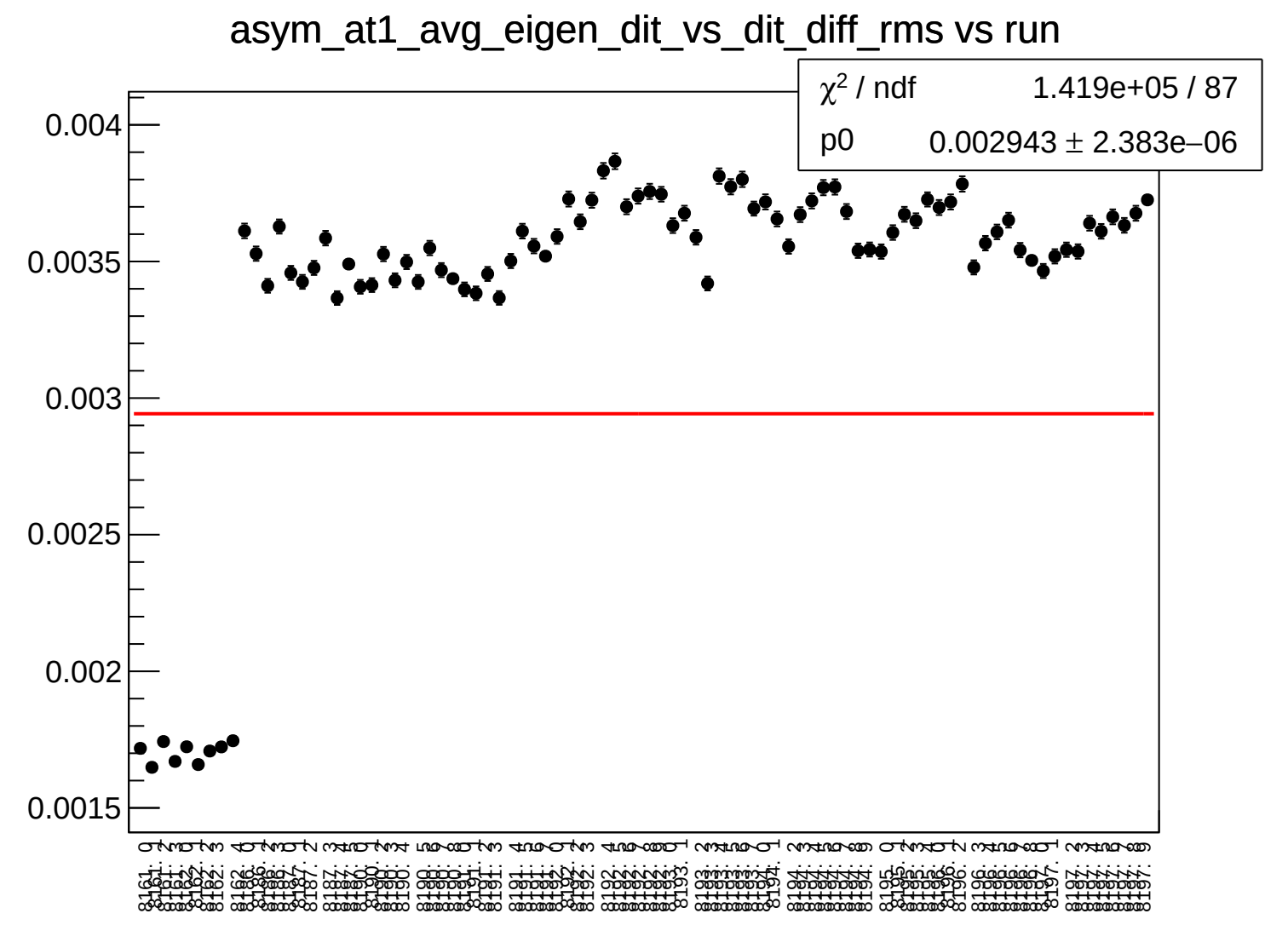

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.994e+05 / 87
p0 102.4 ± 0.1041
700
600
500
400
300
200
100

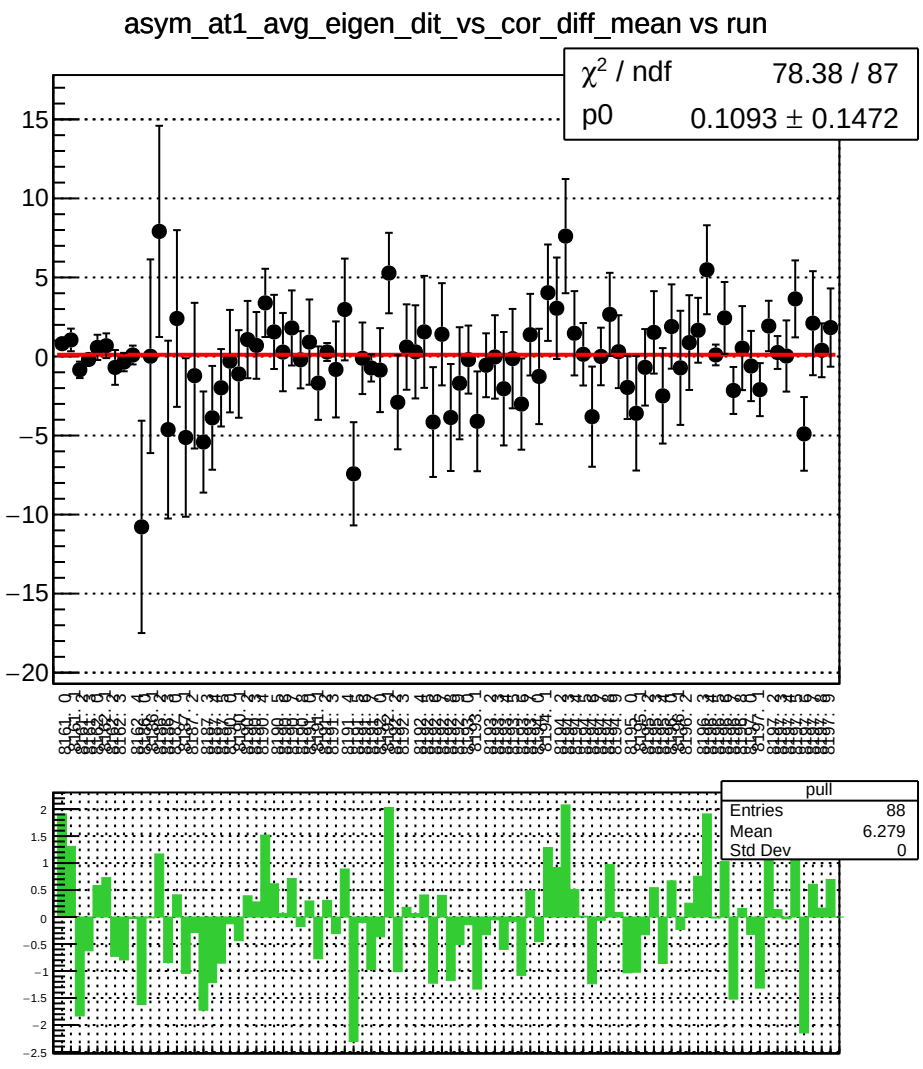

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.38 / 87
p0 0.1093 ± 0.1472
pull
Entries 88
Mean 6.279
Std Dev 0
pull1D
Entries 88
Mean −0.05837
Std Dev 0.9419

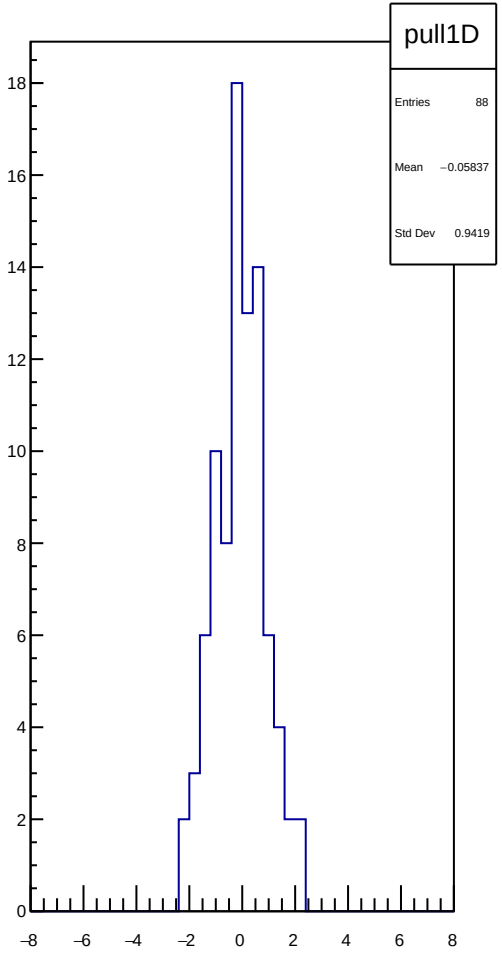

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.994e+05 / 87
p0 102.4 ± 0.1041
700
600
500
400
300
200
100

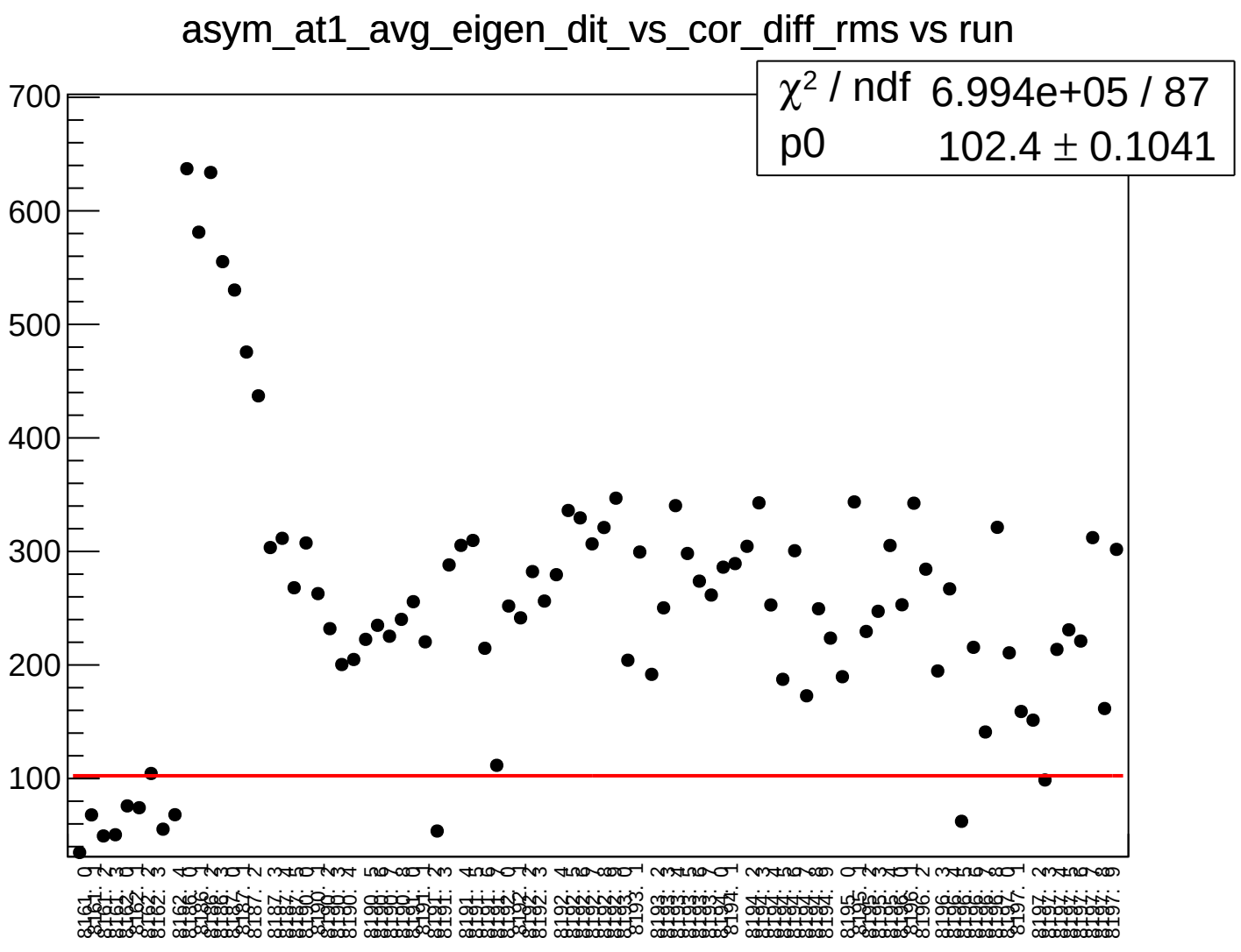

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.58 / 87
p0 6.248e−06 ± 3.37e−06
pull
Entries 88
Mean −29.46
Std Dev 0

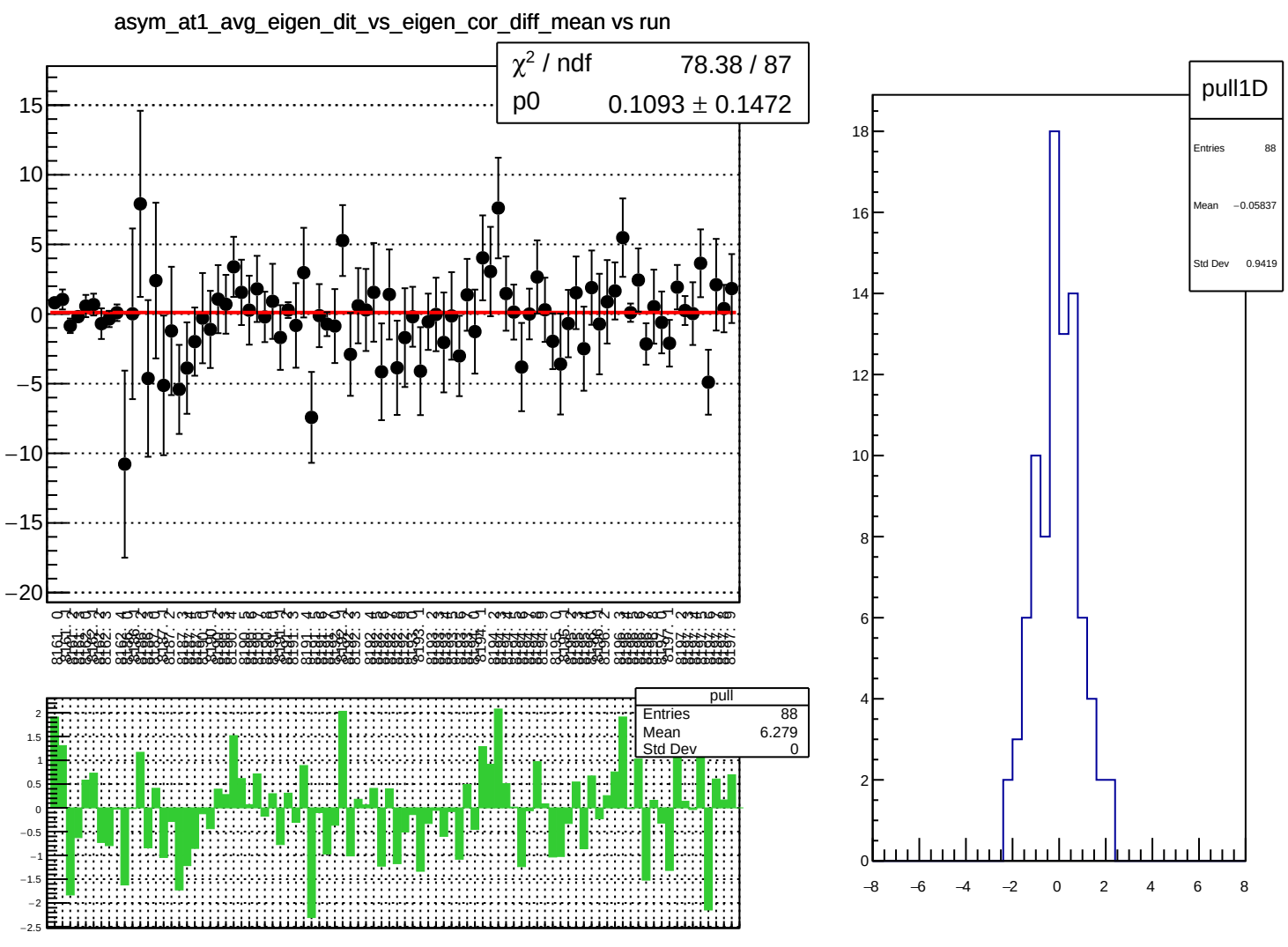

pull1D
Entries 88
Mean 0.02608
Std Dev 0.9683

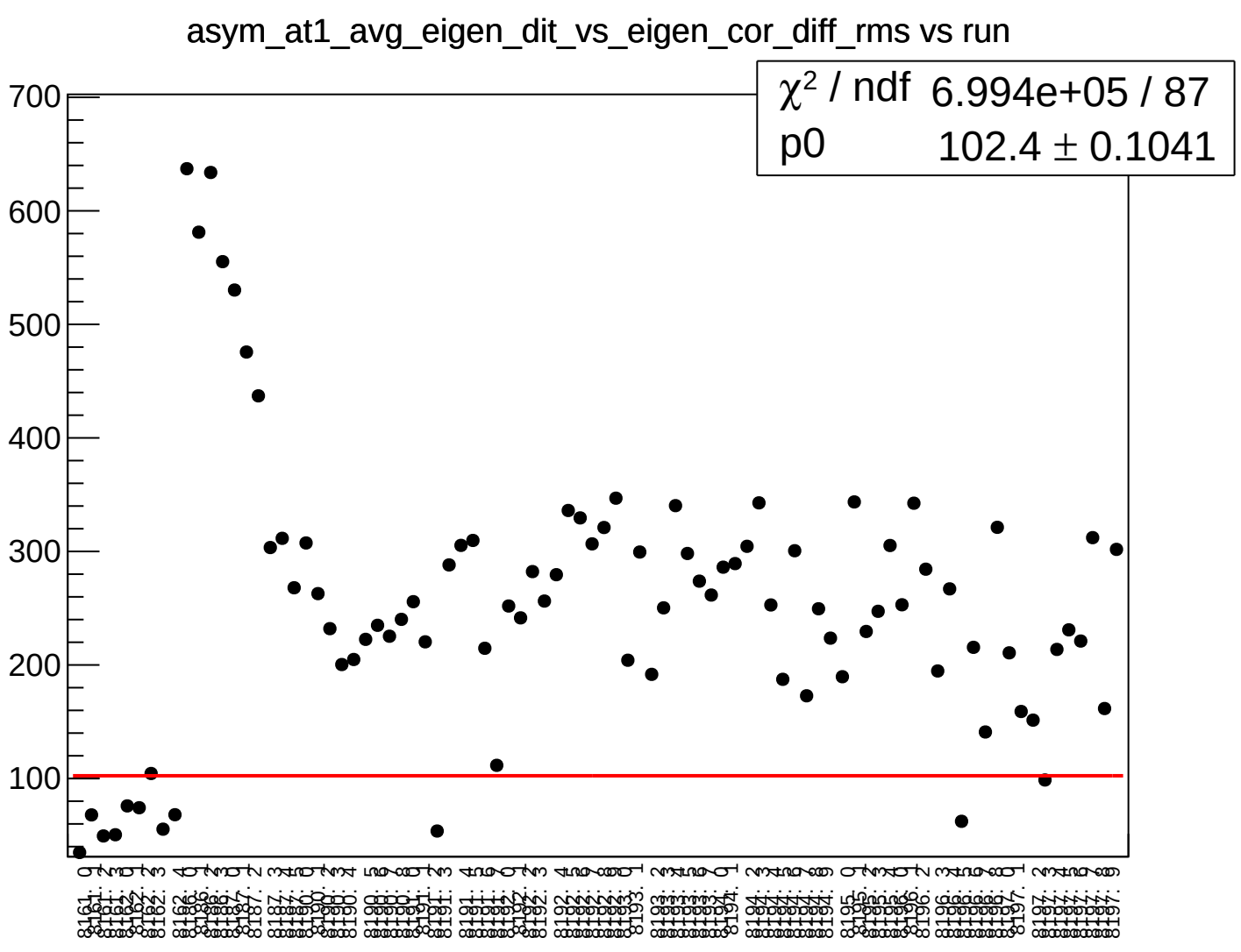

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.419e+05 / 87
p0 0.002943 ± 2.383e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

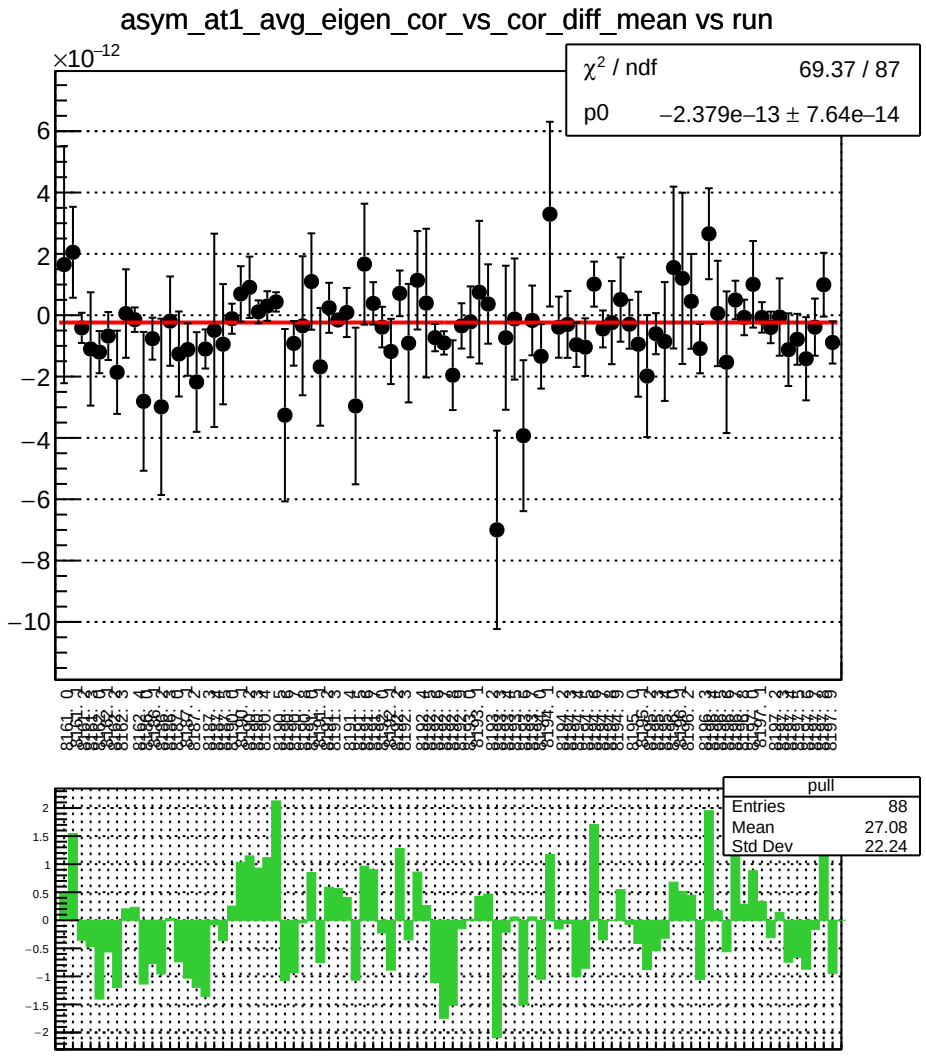

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.38 / 87
p0 0.1093 ± 0.1472
pull
Entries 88
Mean 6.279
Std Dev 0

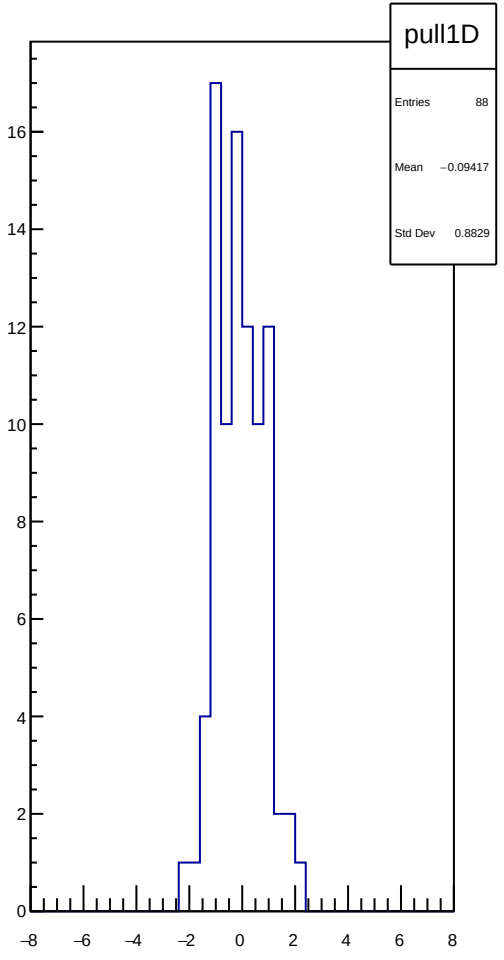

pull1D
Entries 88
Mean −0.05837
Std Dev 0.9419

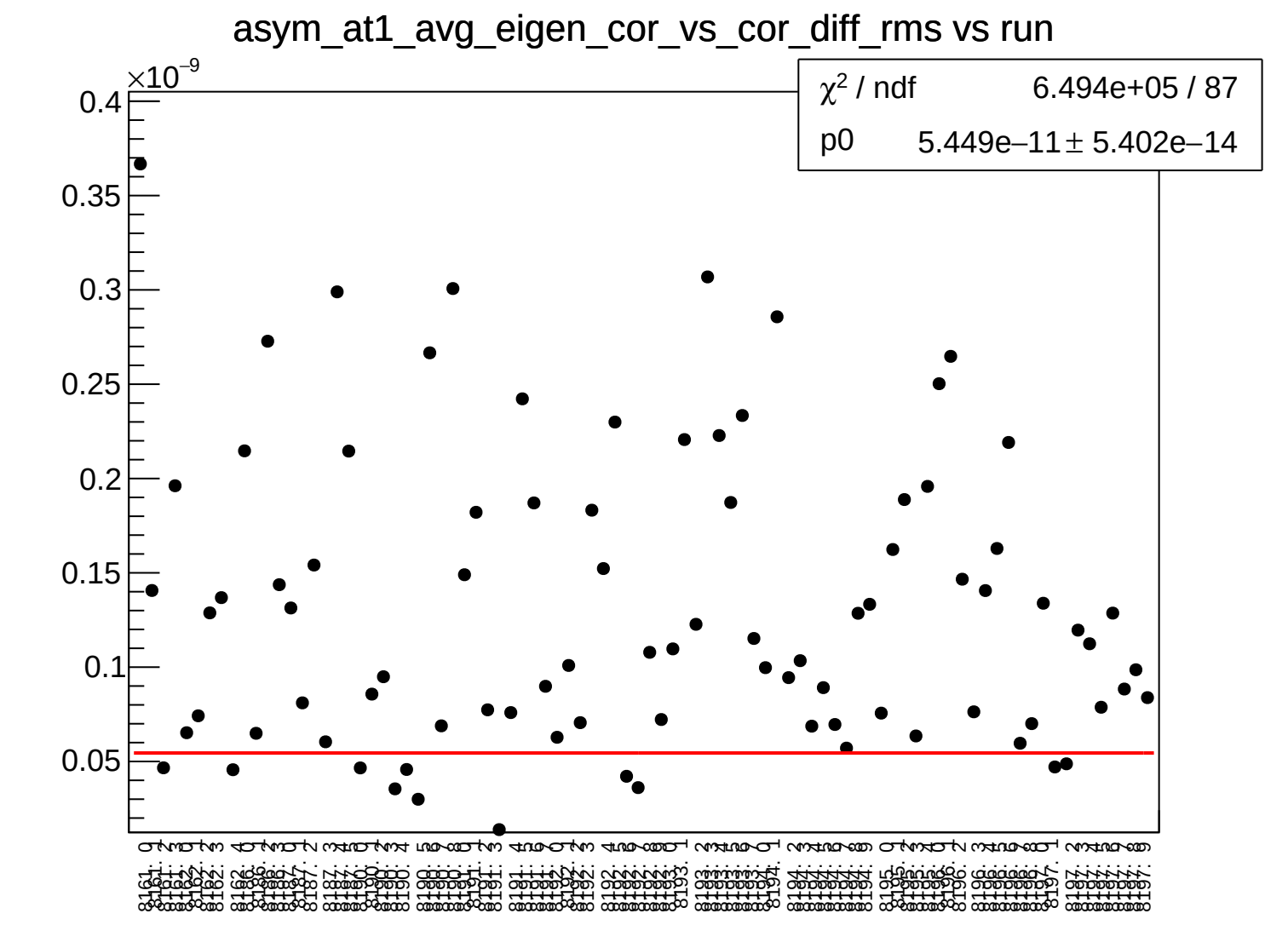

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.994e+05 / 87
p0 102.4 ± 0.1041
700
600
500
400
300
200
100

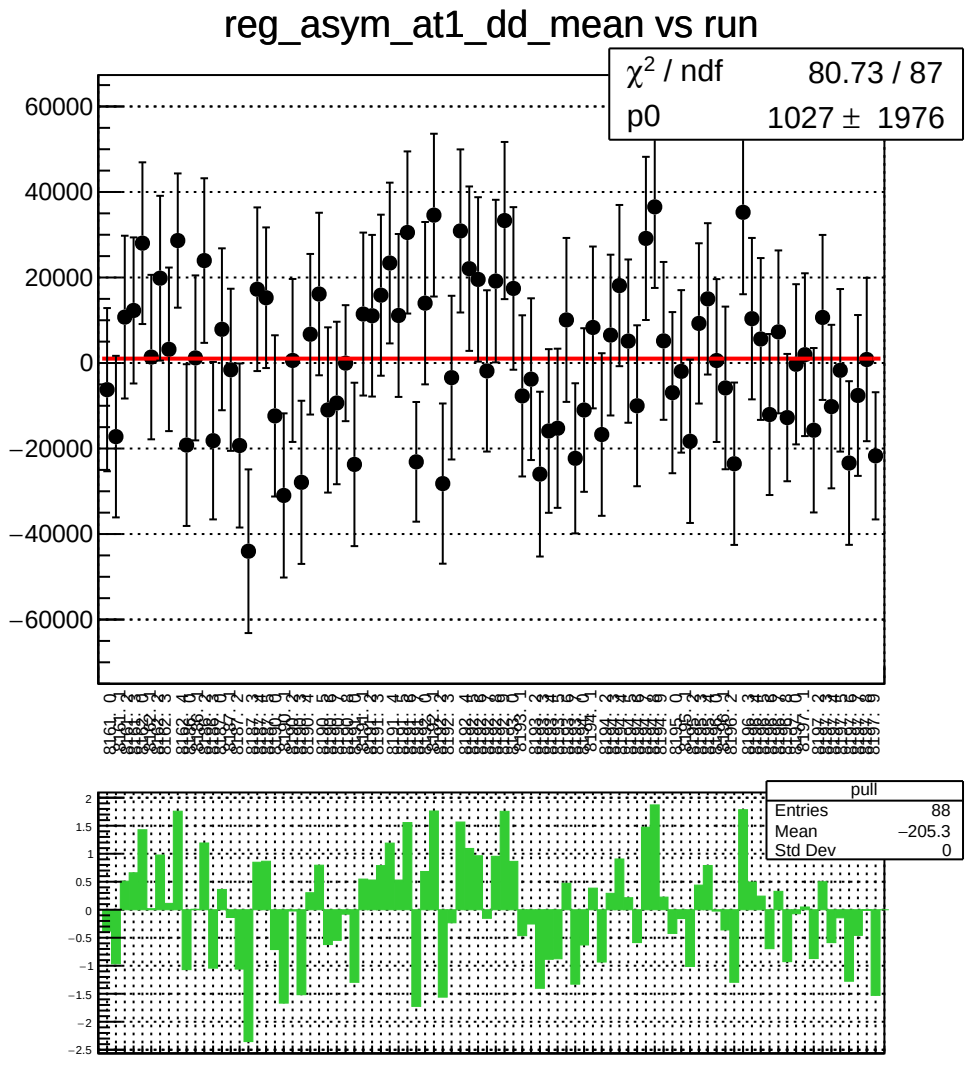

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.38 / 87
p0 0.1093 ± 0.1472
pull
Entries 88
Mean 6.279
Std Dev 0
pull1D
Entries 88
Mean −0.05837
Std Dev 0.9419

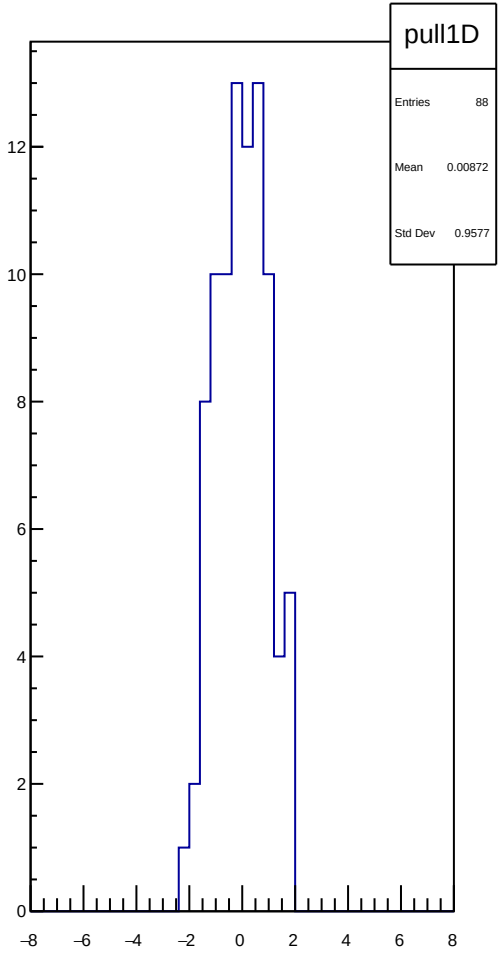

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.994e+05 / 87
p0 102.4 ± 0.1041
700
600
500
400
300
200
100

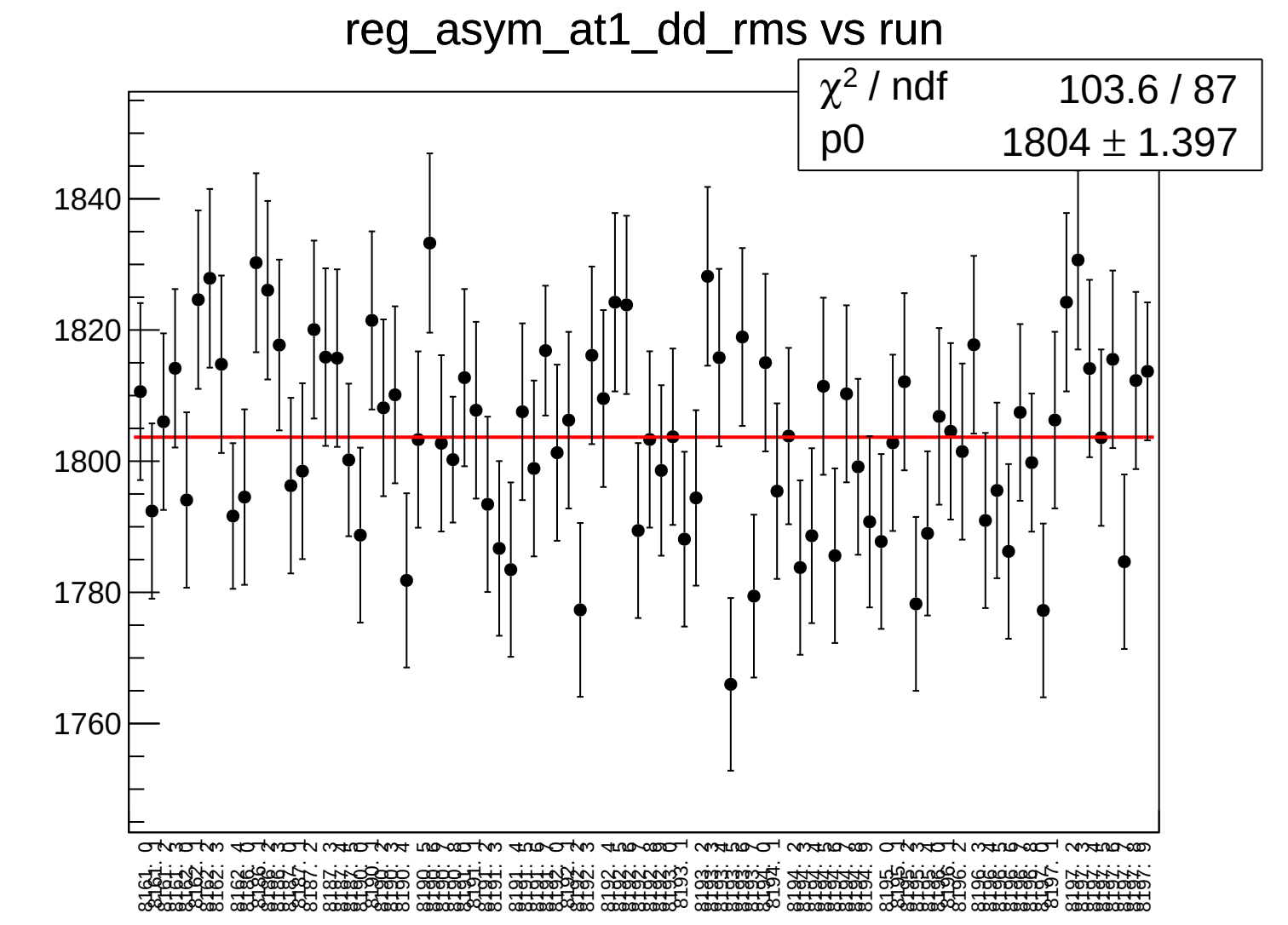

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.37 / 87
p0 −2.379e−13 ± 7.64e−14
pull
Entries 88
Mean 27.08
Std Dev 22.24

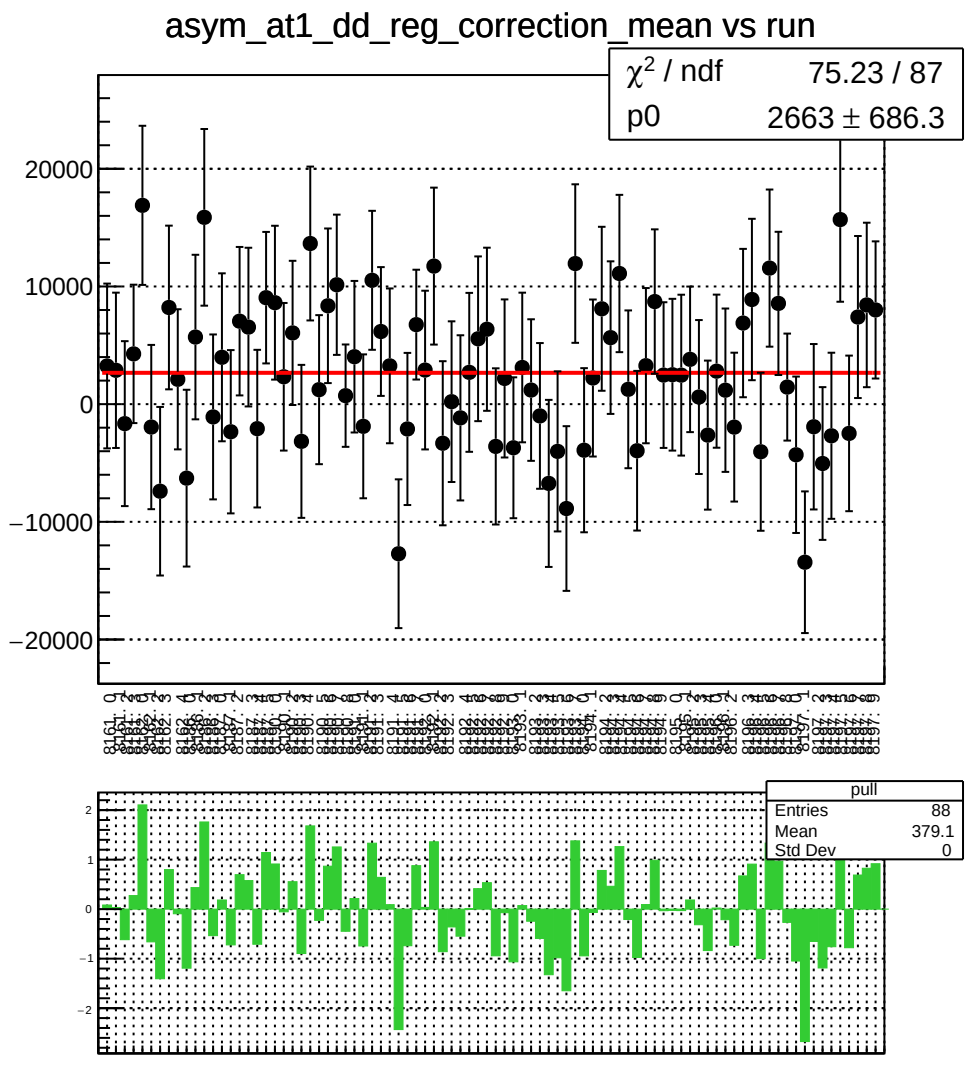

pull1D
Entries 88
Mean −0.09417
Std Dev 0.8829

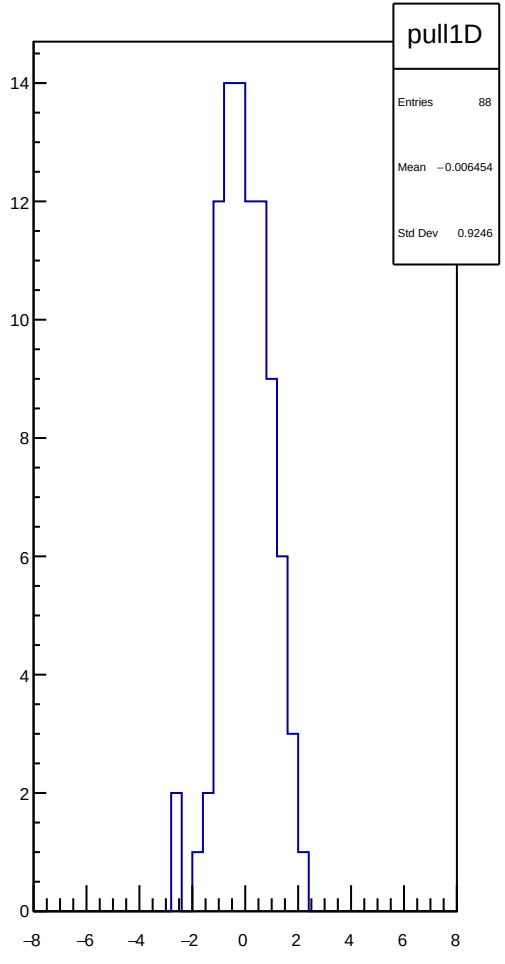

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.494e+05 / 87
p0 5.449e−11 ± 5.402e−14

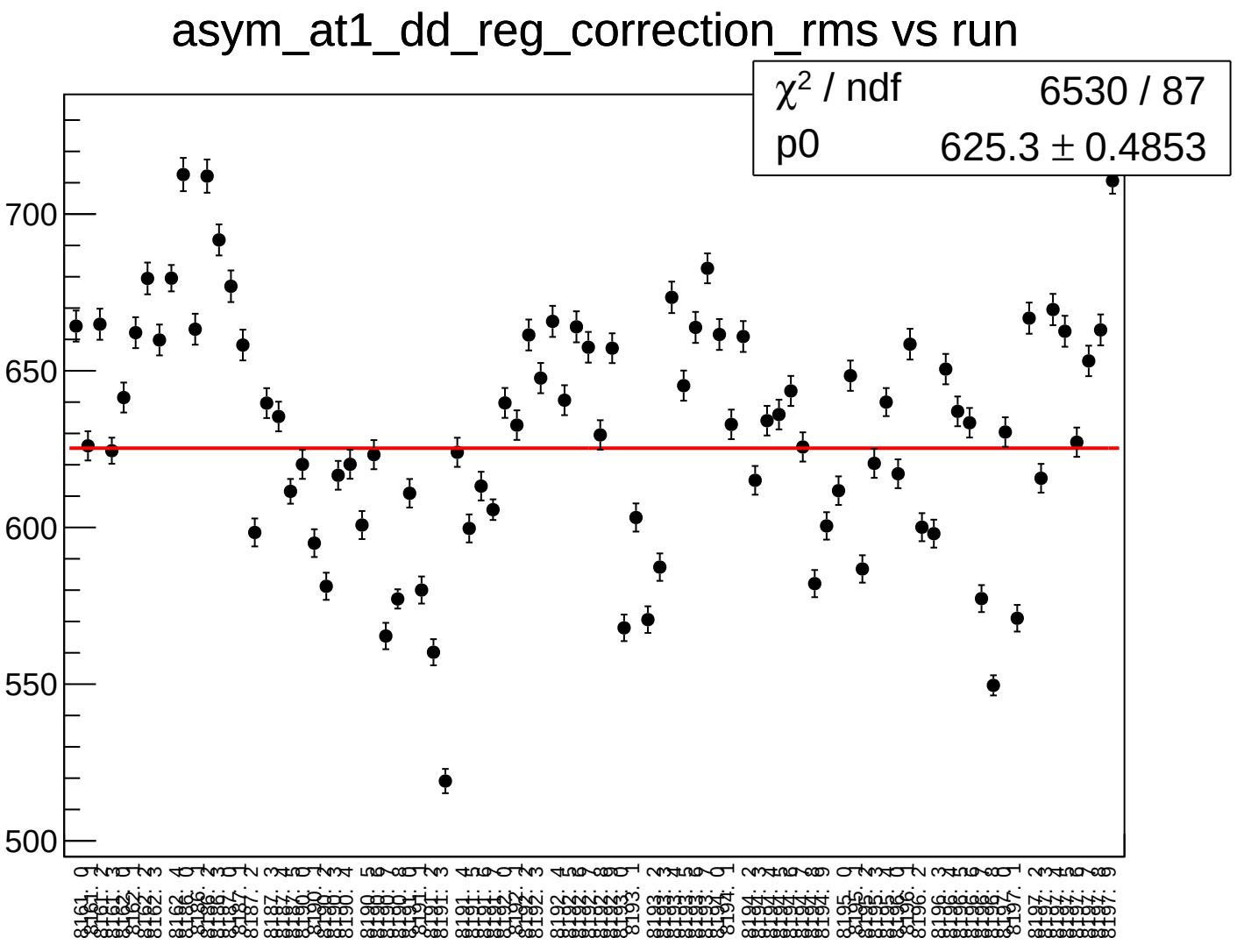

reg_asym_at1_dd_mean vs run
χ² / ndf 80.73 / 87
p0 1027 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −205.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

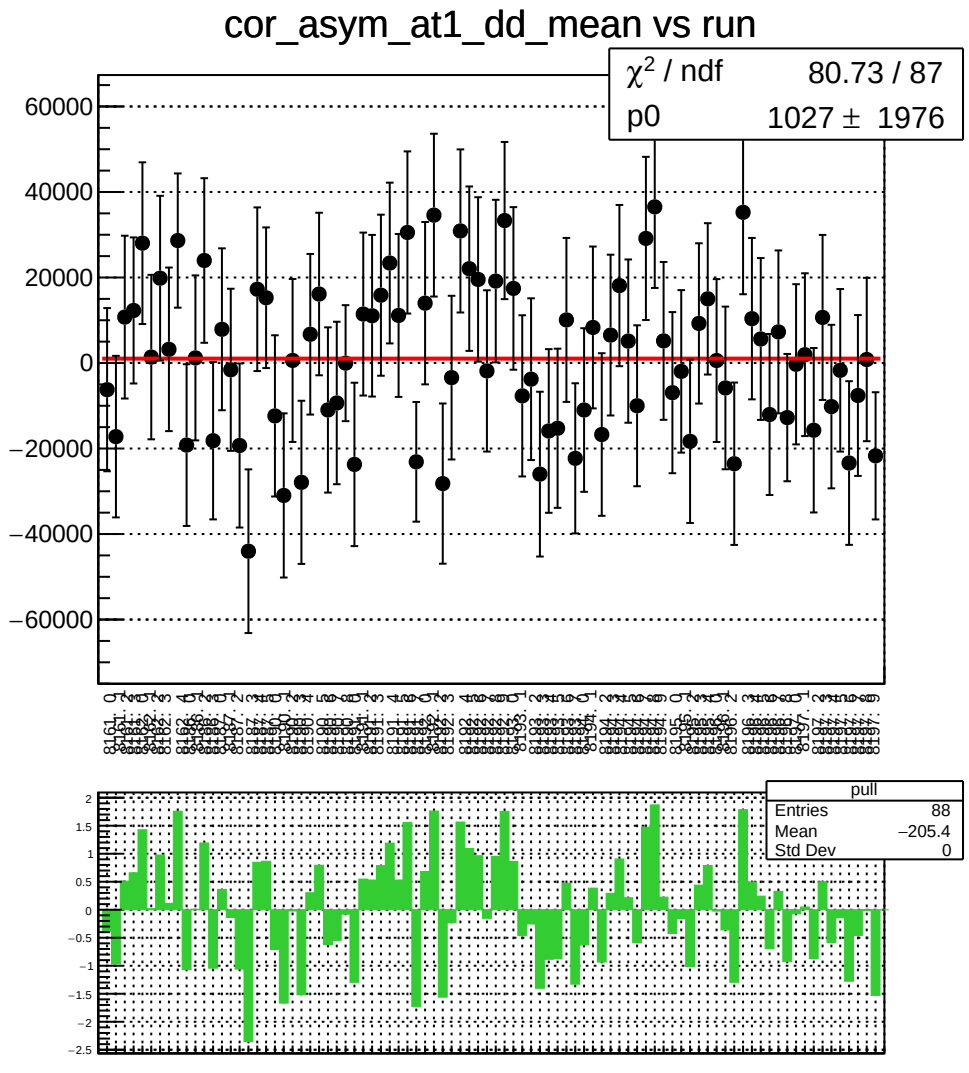

pull1D
Entries 88
Mean 0.00872
Std Dev 0.9577
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

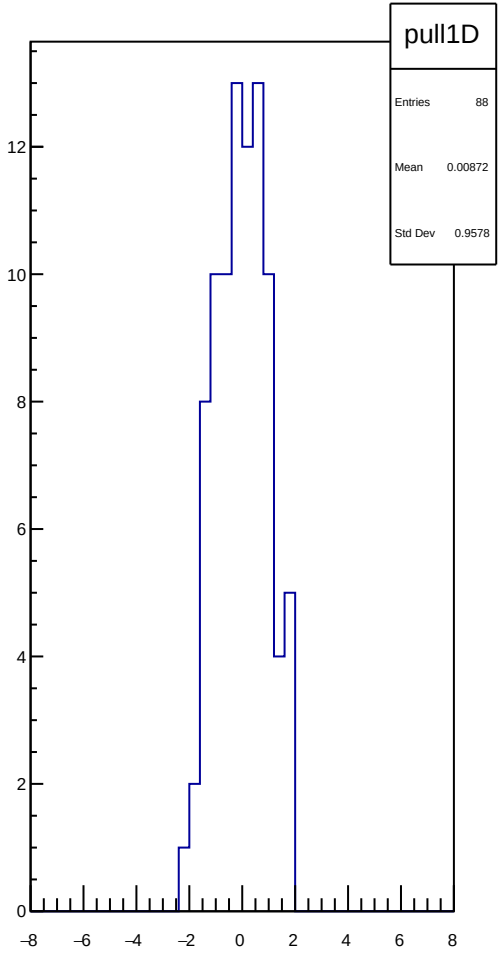

reg_asym_at1_dd_rms vs run
χ^2 / ndf 103.6 / 87
p0 1804 ± 1.397
1840
1820
1800
1780
1760

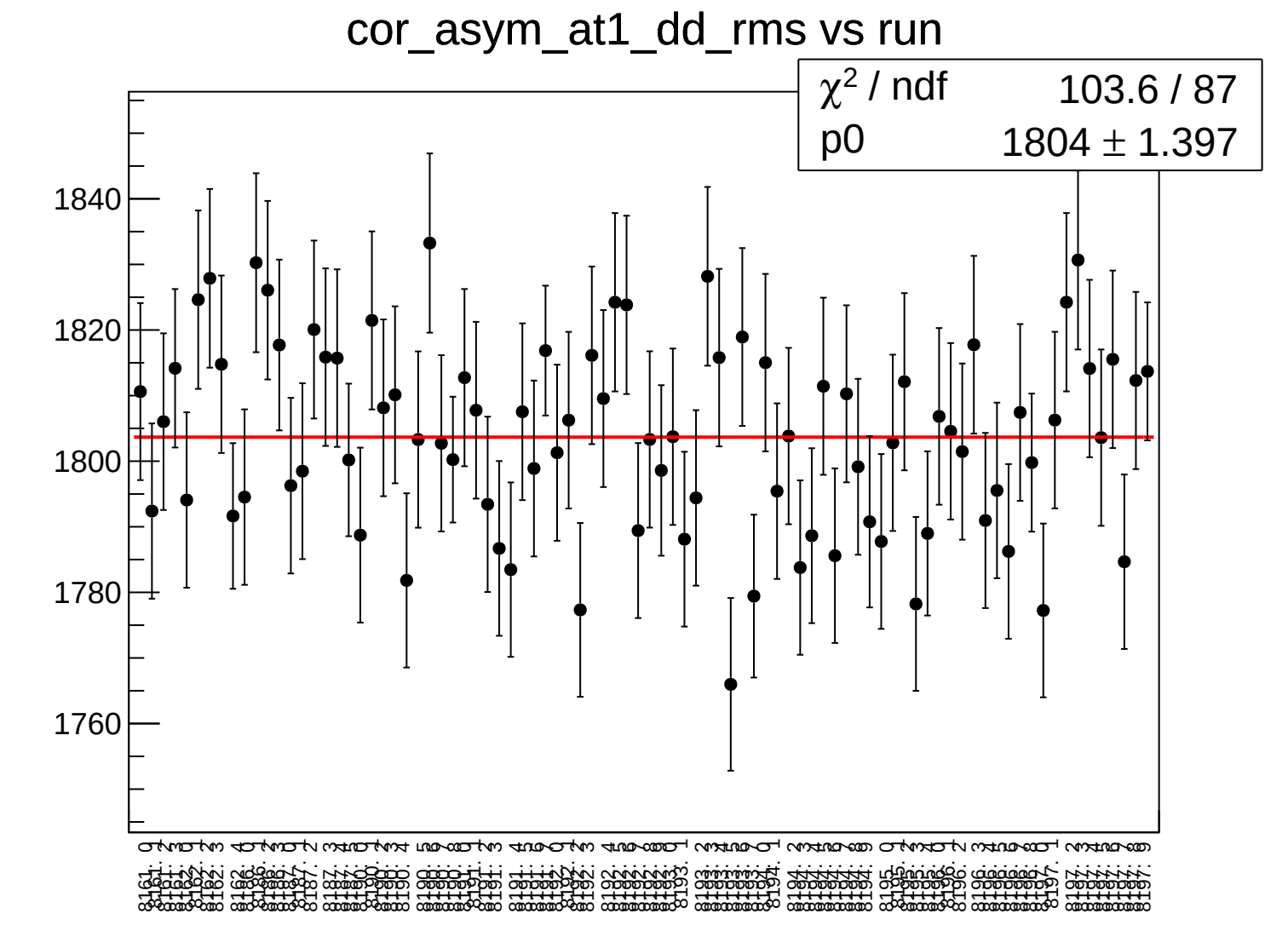

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 75.23 / 87
p0 2663 ± 686.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 379.1
Std Dev 0
2
1
0
−1
−2

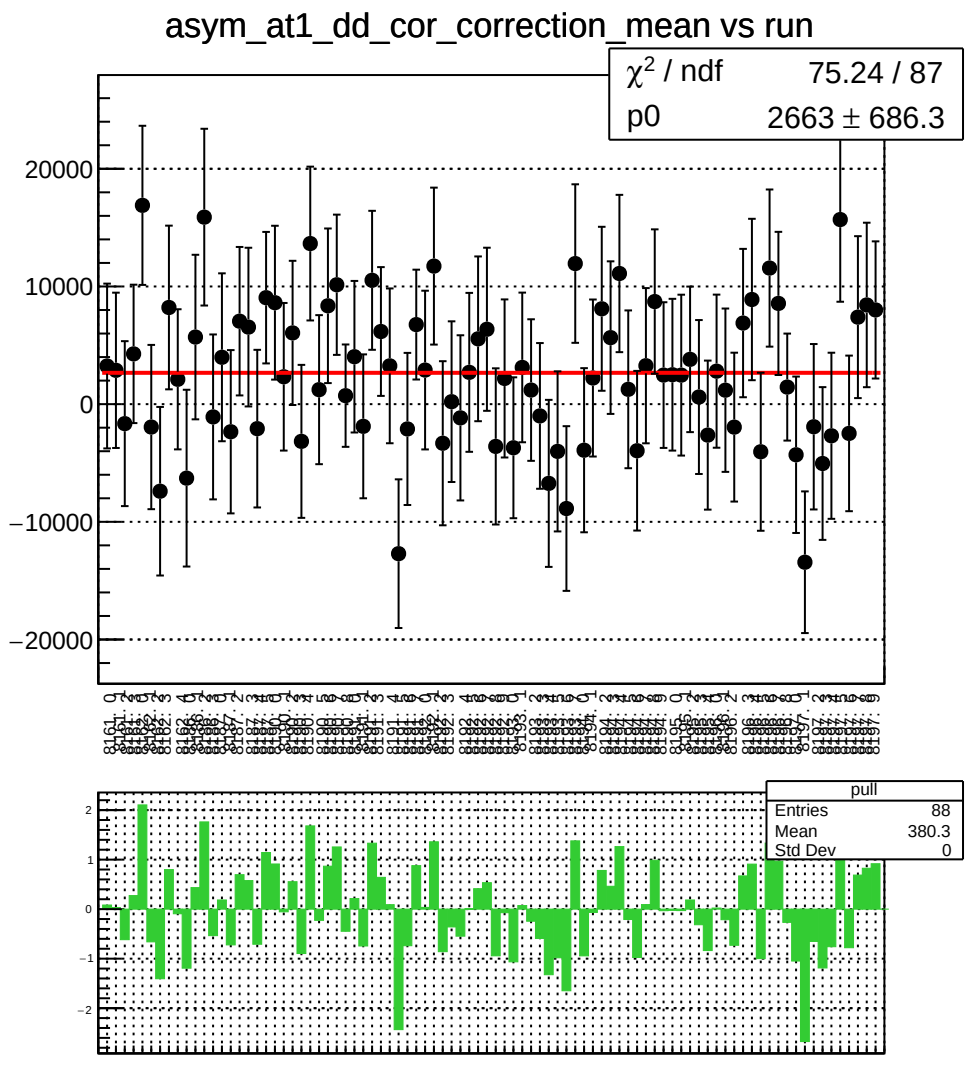

pull1D
Entries 88
Mean −0.006454
Std Dev 0.9246
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

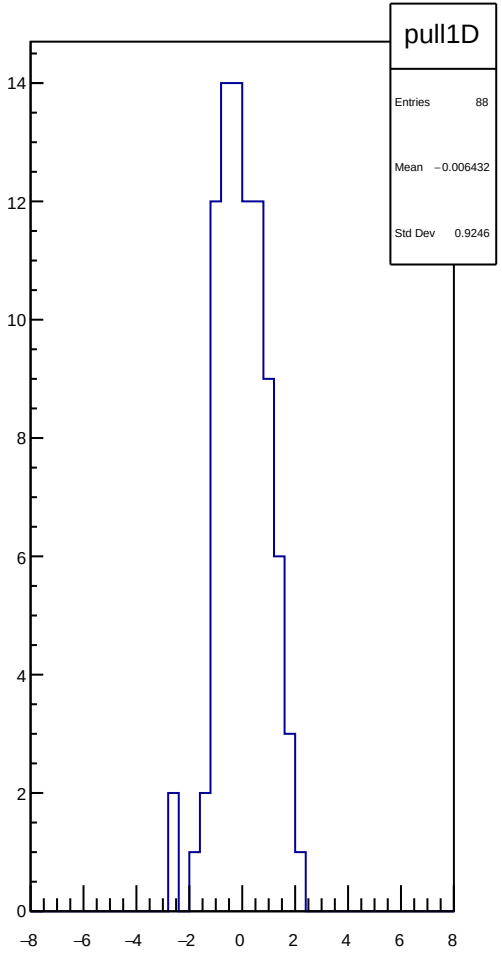

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 6530 / 87
p0 625.3 ± 0.4853
700
650
600
550
500

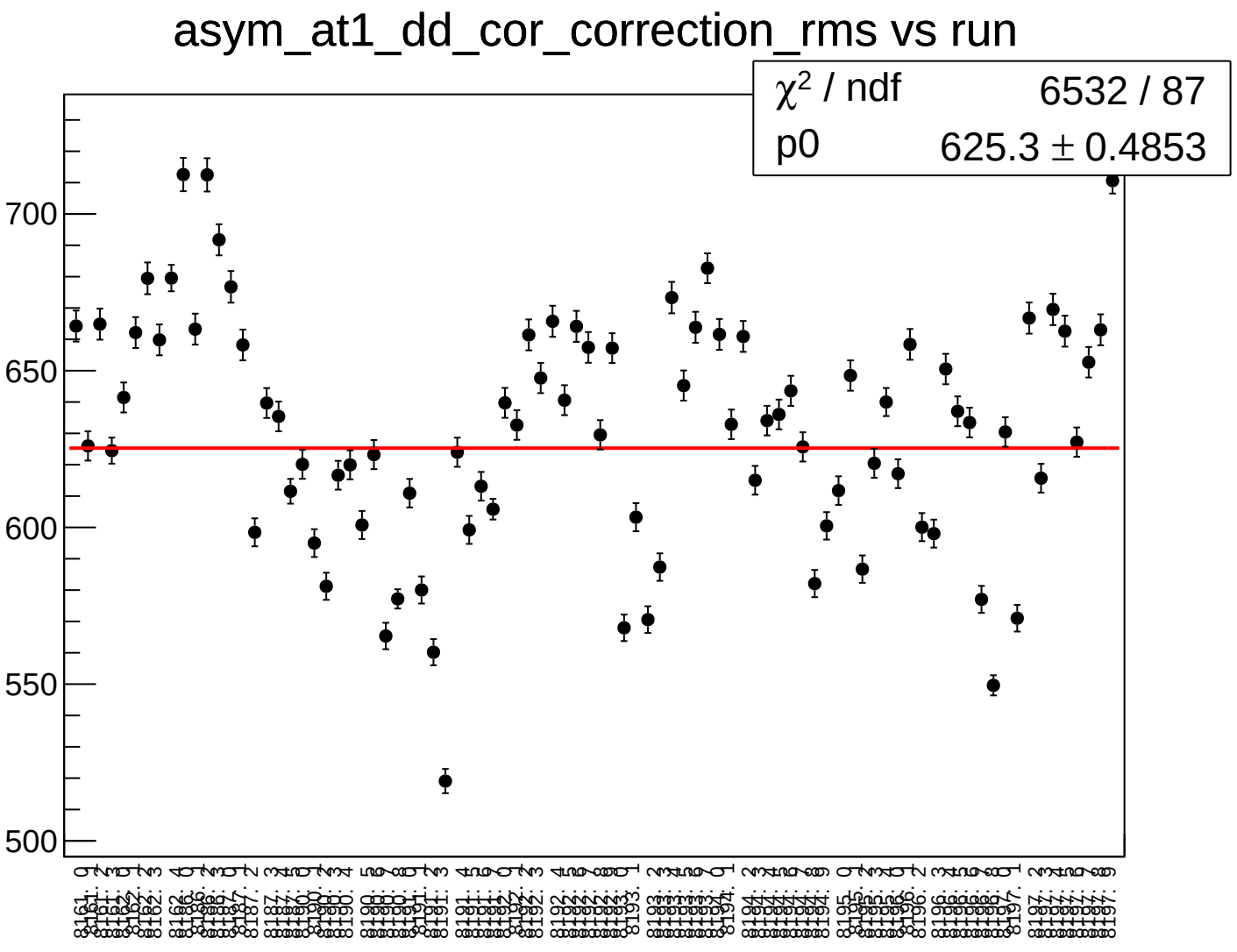

cor_asym_at1_dd_mean vs run
χ² / ndf 80.73 / 87
p0 1027 ± 1976
pull
Entries 88
Mean −205.4
Std Dev 0

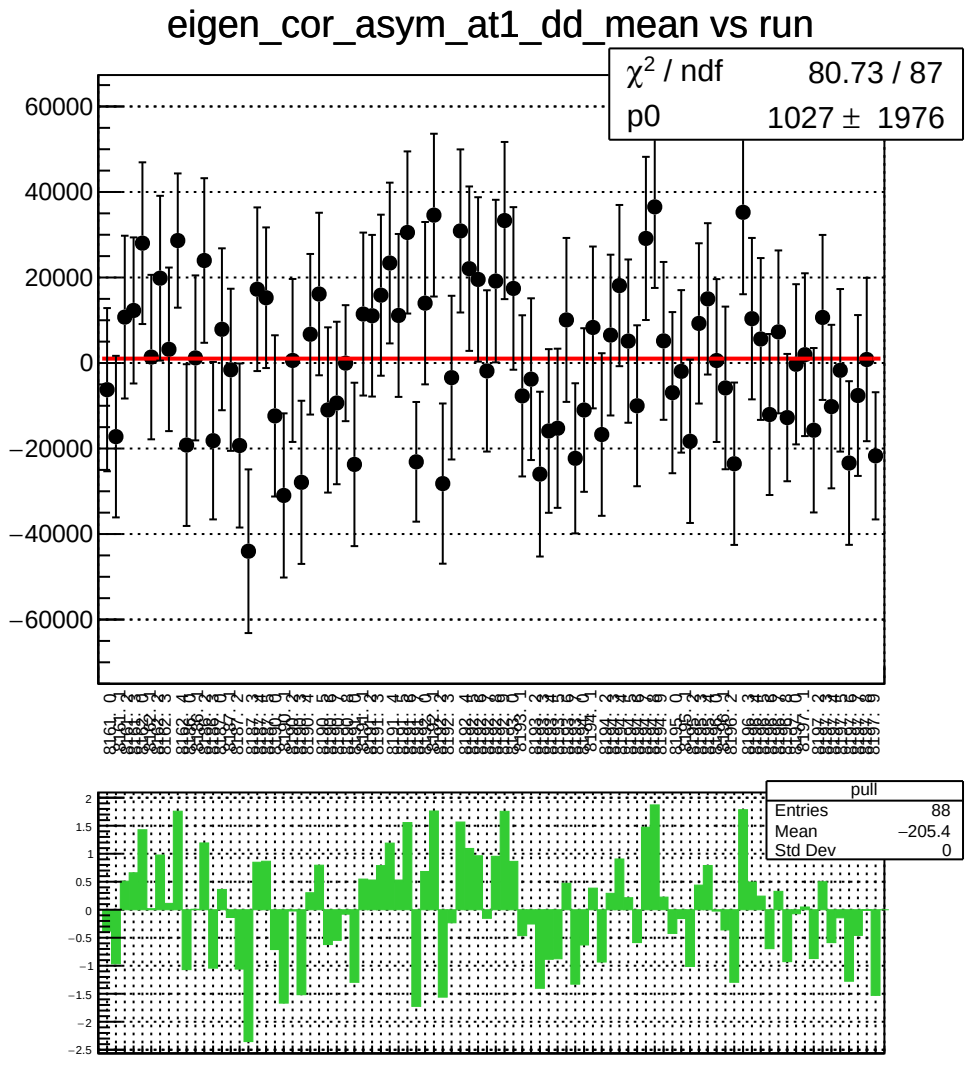

pull1D
Entries 88
Mean 0.00872
Std Dev 0.9578

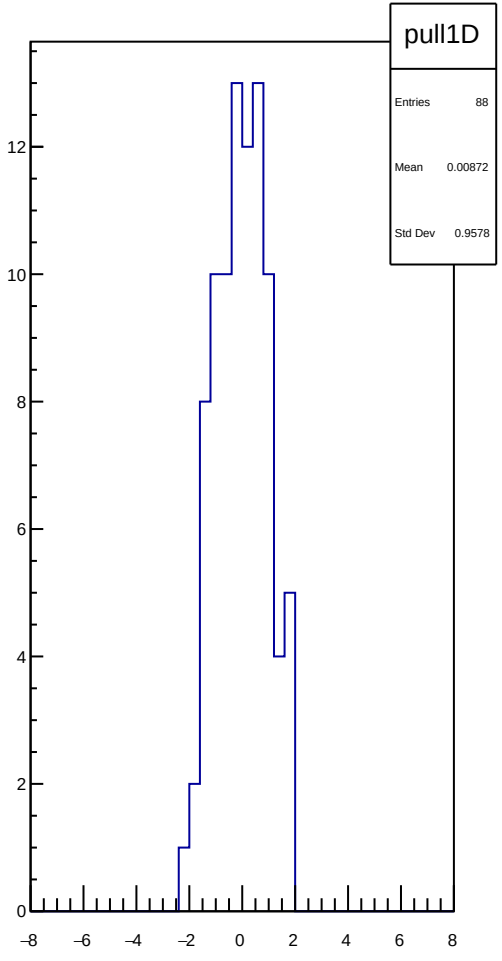

cor_asym_at1_dd_rms vs run
χ^2 / ndf 103.6 / 87
p0 1804 ± 1.397
1840
1820
1800
1780
1760

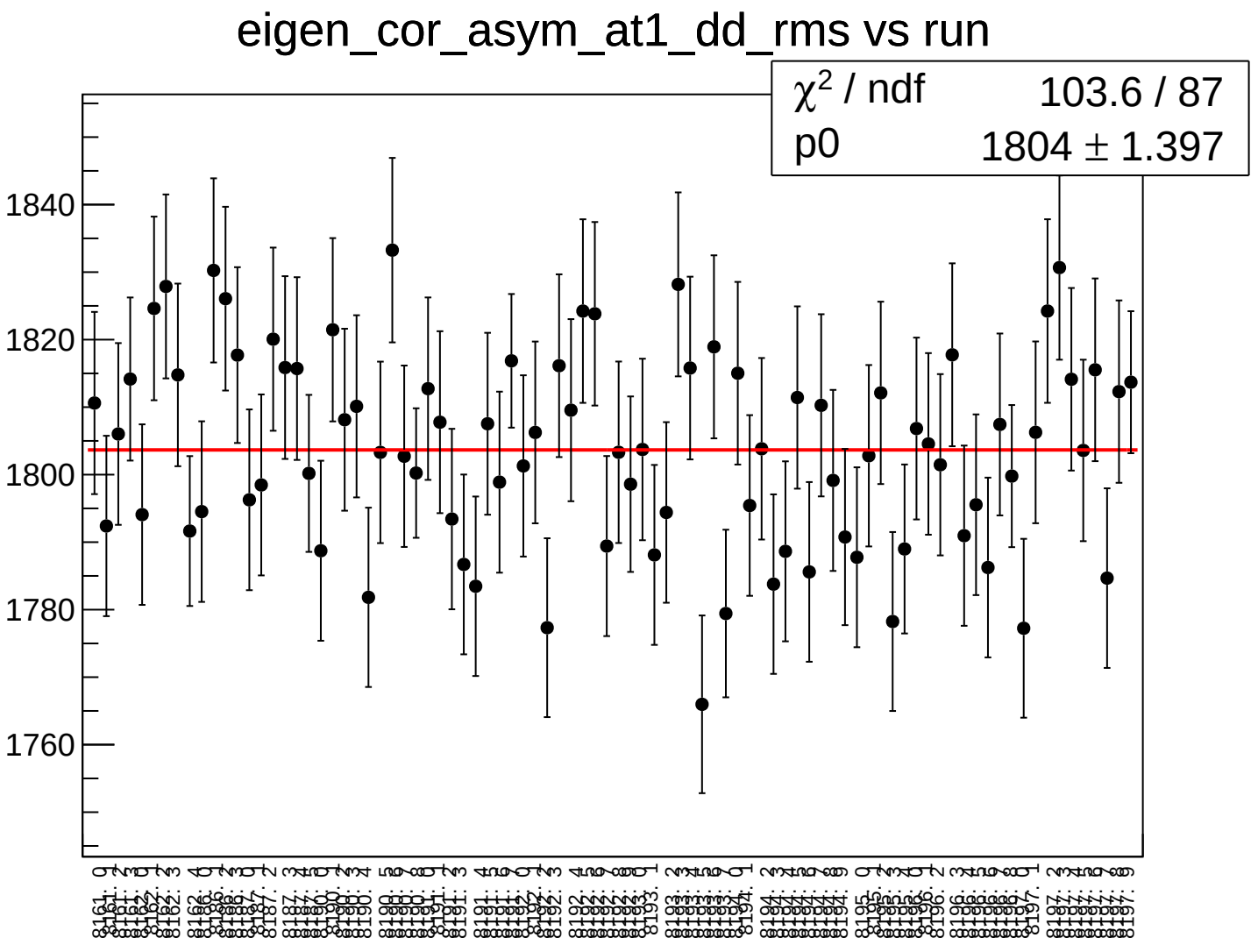

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 75.24 / 87
p0 2663 ± 686.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 380.3
Std Dev 0
2
1
0
−1
−2

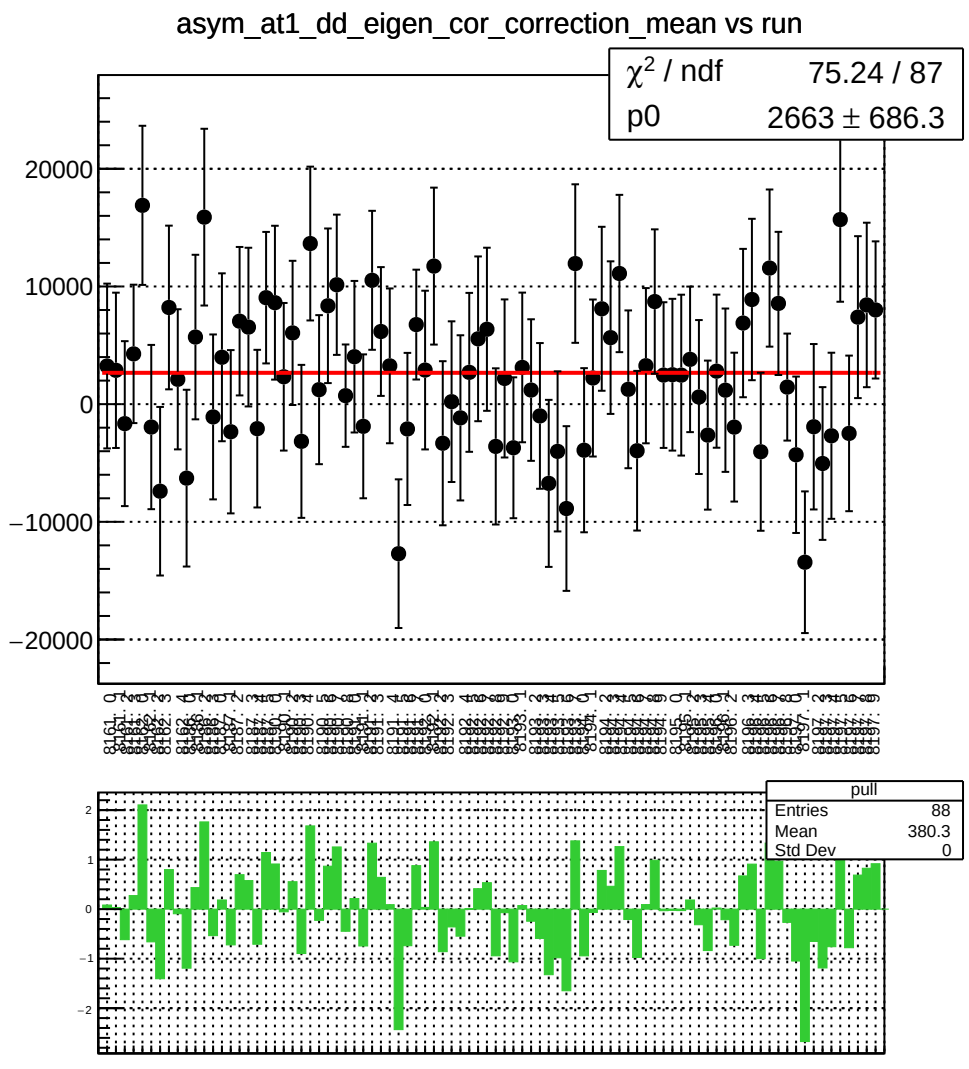

pull1D
Entries 88
Mean −0.006432
Std Dev 0.9246
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

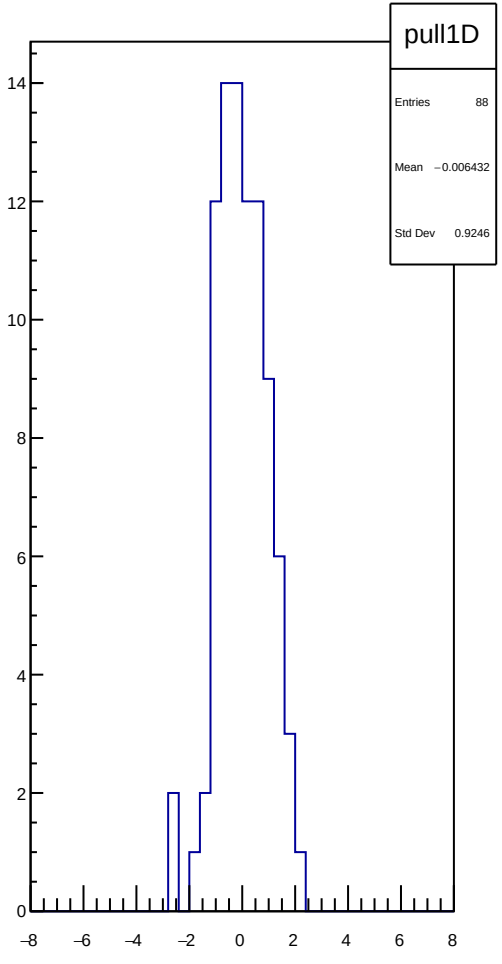

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 6532 / 87
p0 625.3 ± 0.4853
700
650
600
550
500

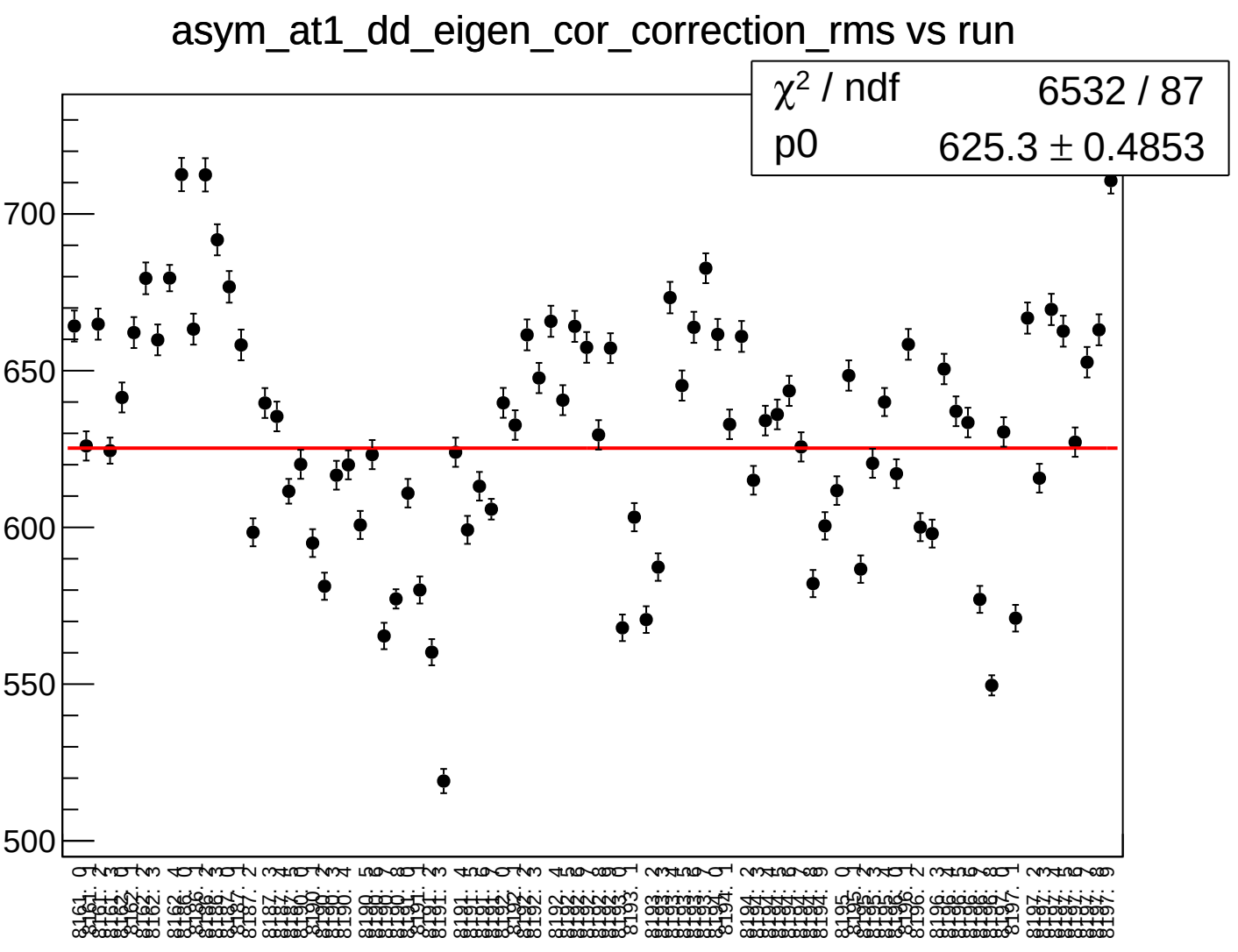

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 80.73 / 87
p0 1027 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −205.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

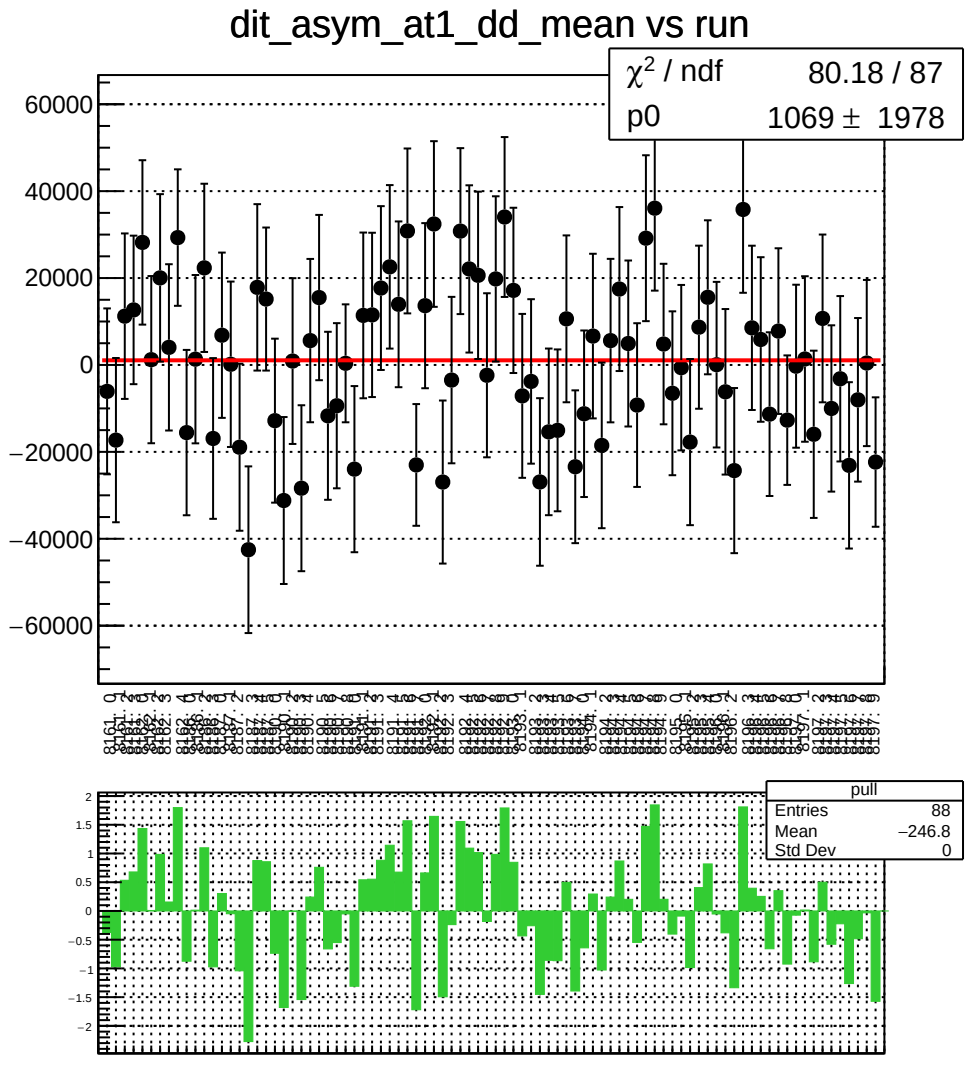

pull1D
Entries 88
Mean 0.00872
Std Dev 0.9578
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

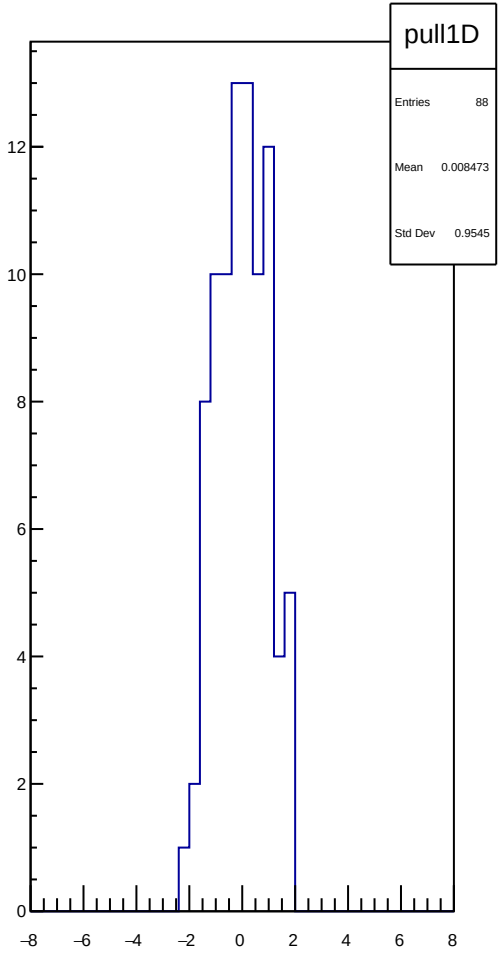

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 103.6 / 87
p0 1804 ± 1.397
1840
1820
1800
1780
1760

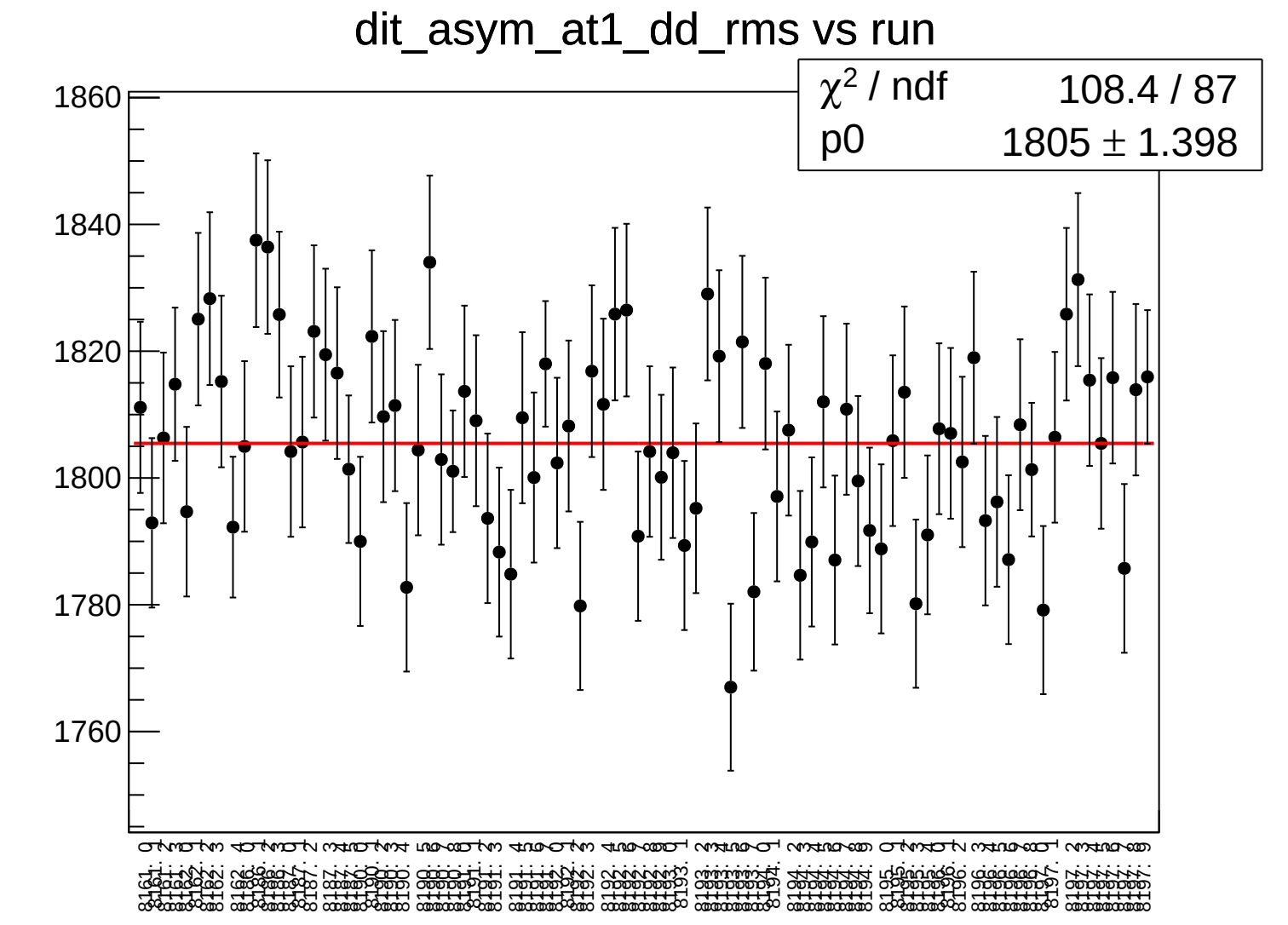

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.24 / 87
p0 2663 ± 686.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 380.3
Std Dev 0
2
1
0
−1
−2

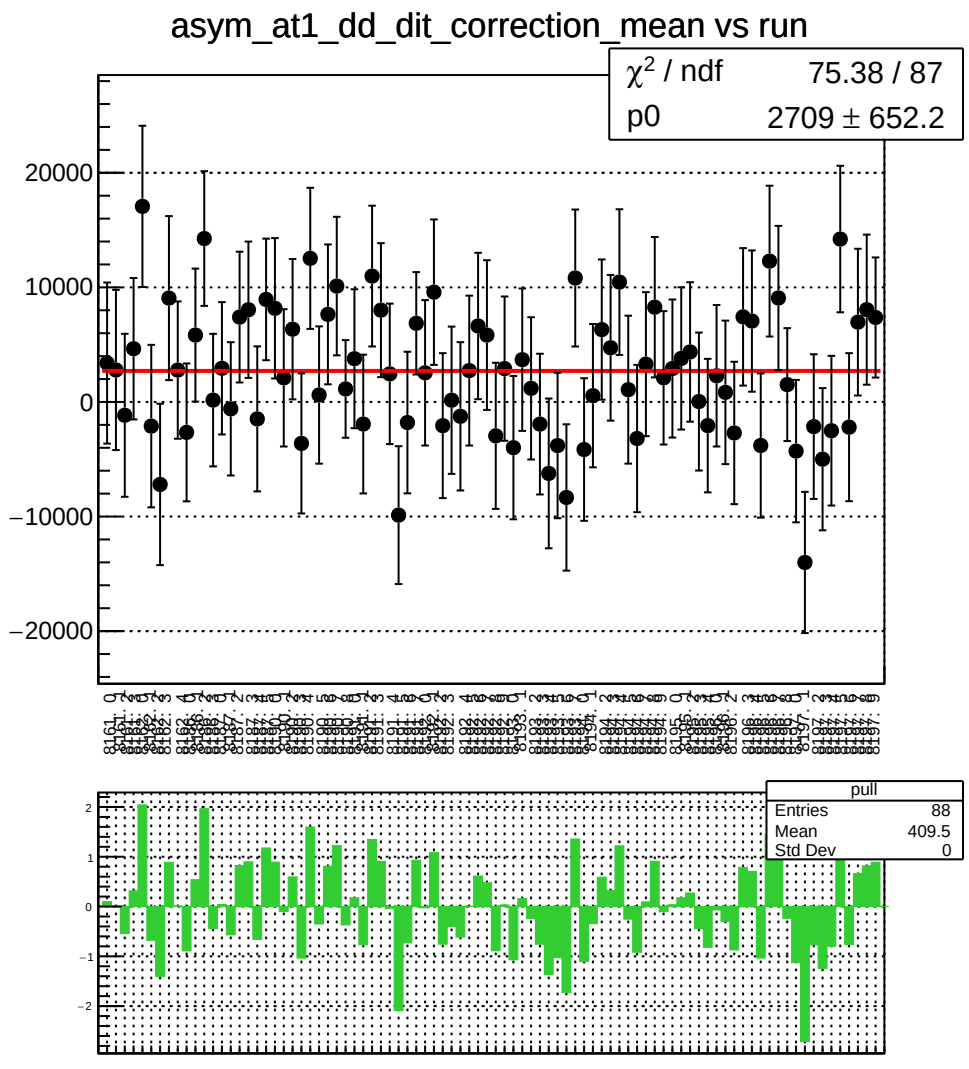

pull1D
Entries 88
Mean −0.006432
Std Dev 0.9246
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

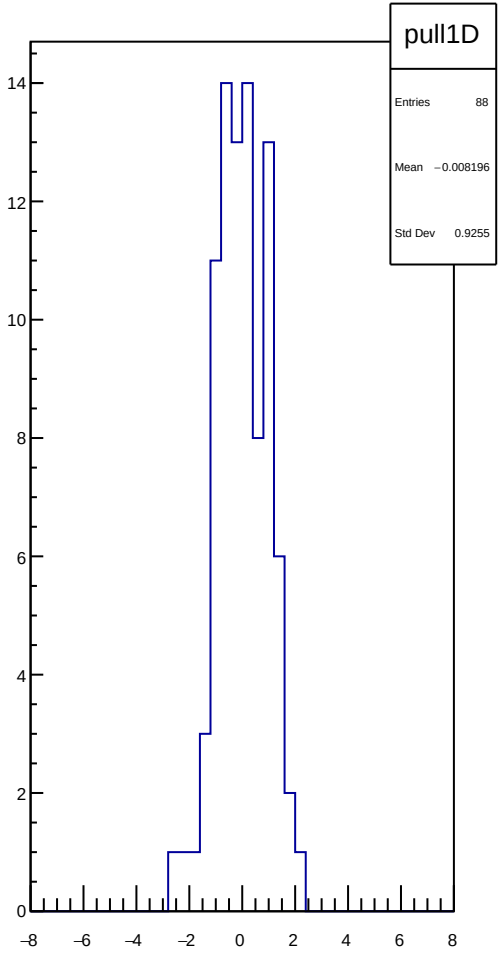

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6532 / 87
p0 625.3 ± 0.4853
700
650
600
550
500

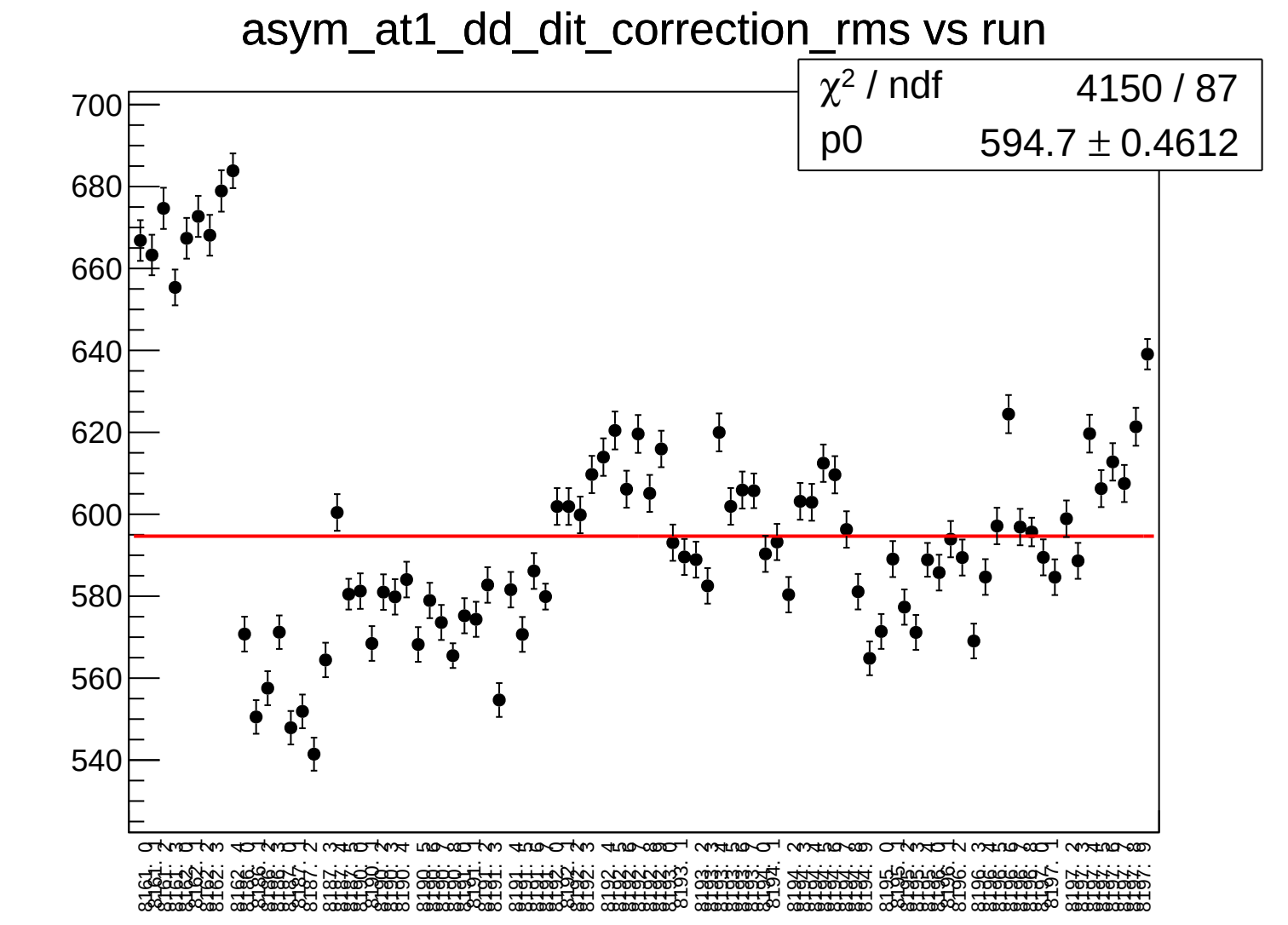

dit_asym_at1_dd_mean vs run
χ² / ndf 80.18 / 87
p0 1069 ± 1978
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −246.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

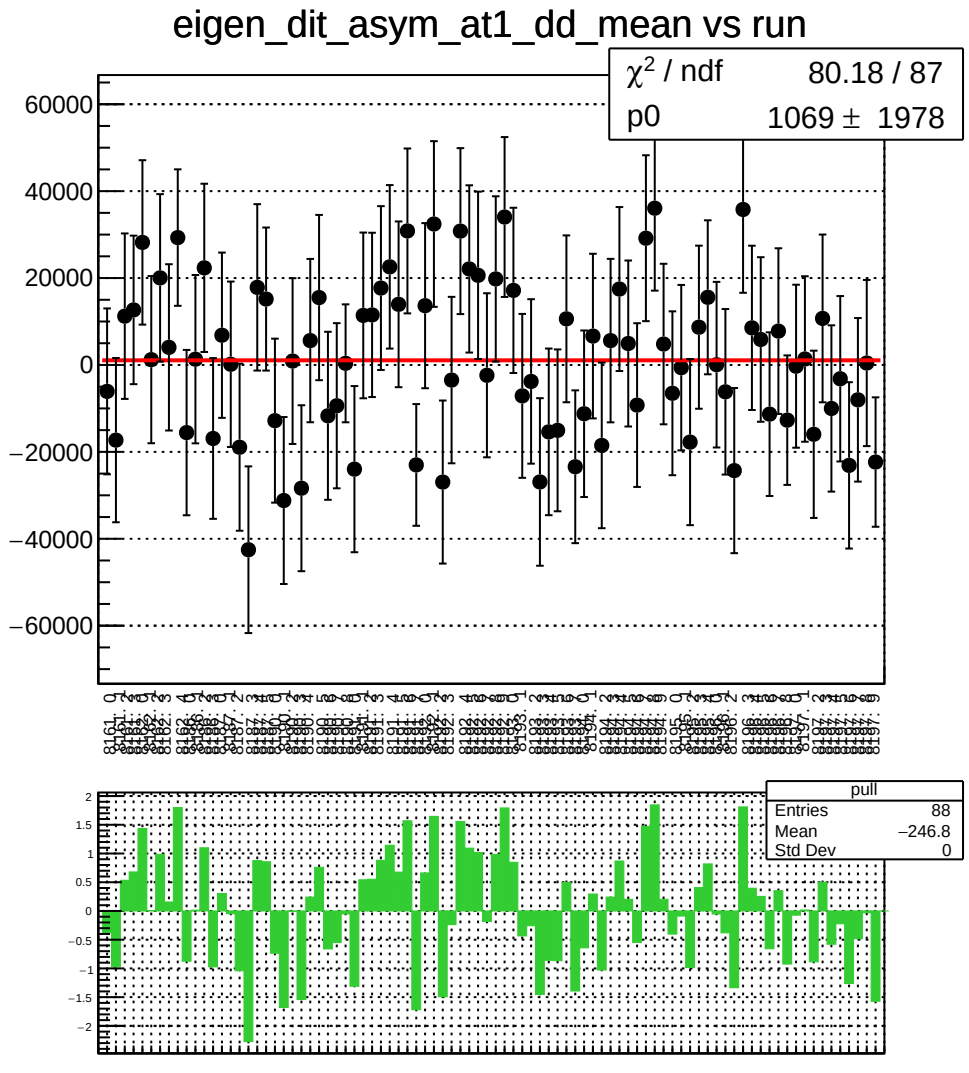

pull1D
Entries 88
Mean 0.008473
Std Dev 0.9545
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

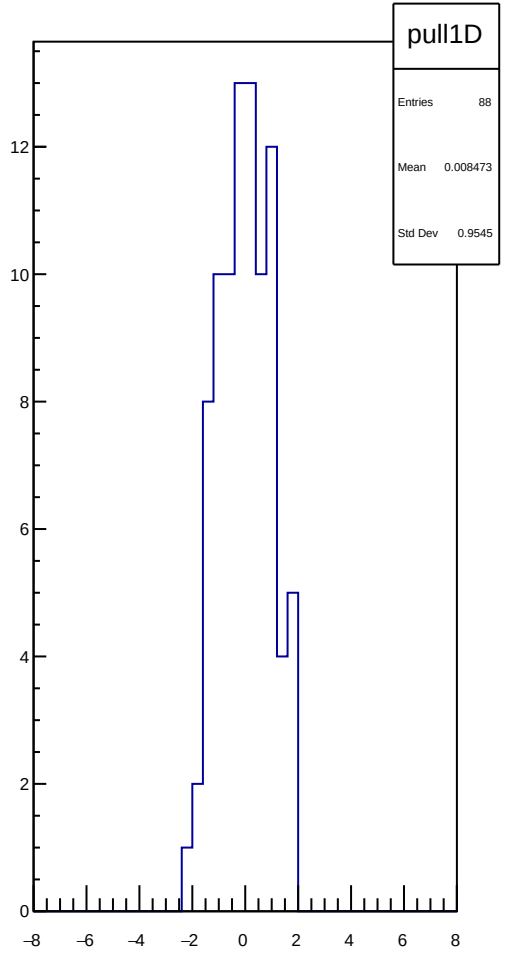

dit_asym_at1_dd_rms vs run
χ^2 / ndf 108.4 / 87
p0 1805 ± 1.398
1860
1840
1820
1800
1780
1760

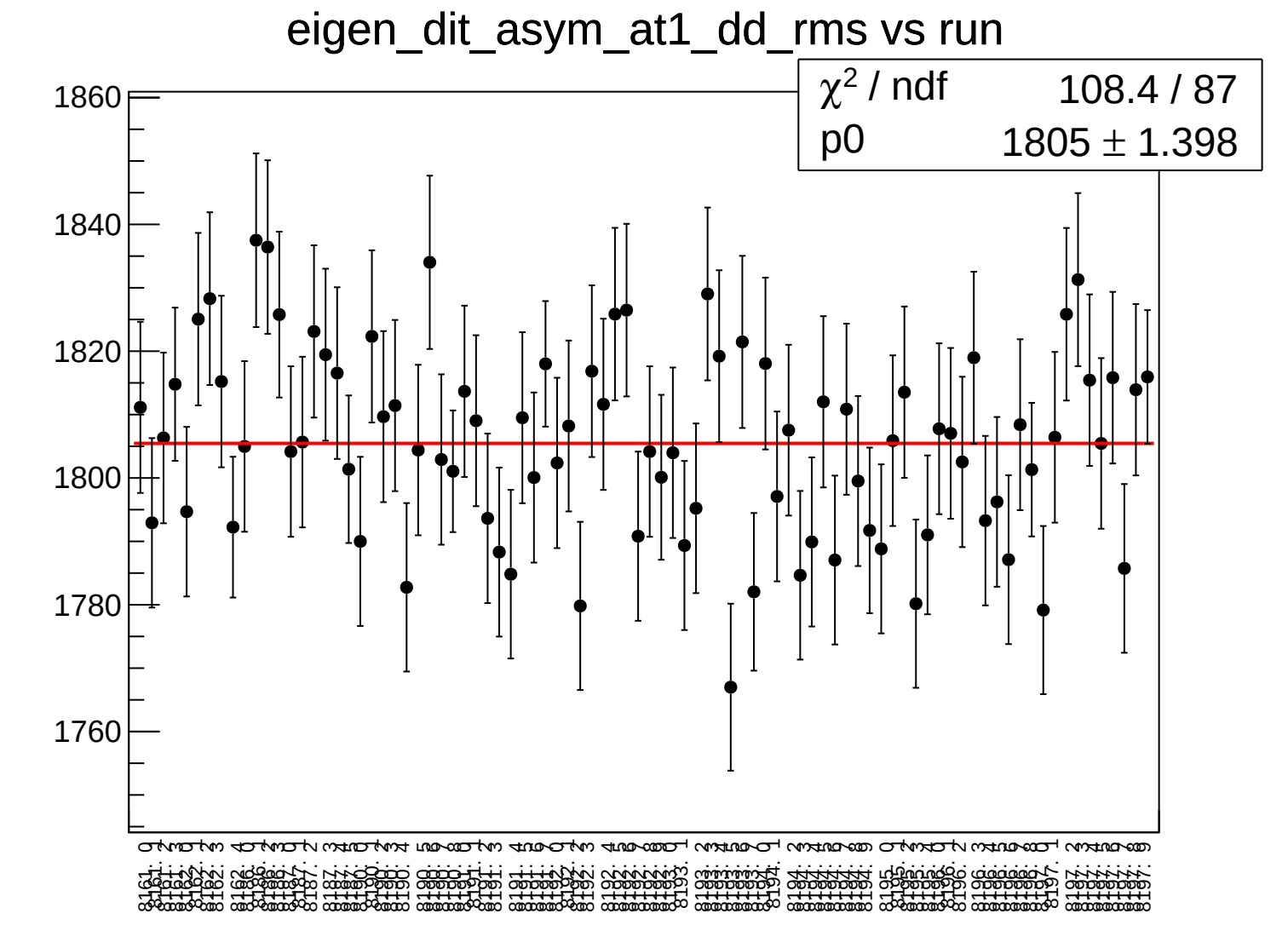

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 75.38 / 87
p0 2709 ± 652.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 409.5
Std Dev 0
2
1
0
−1
−2

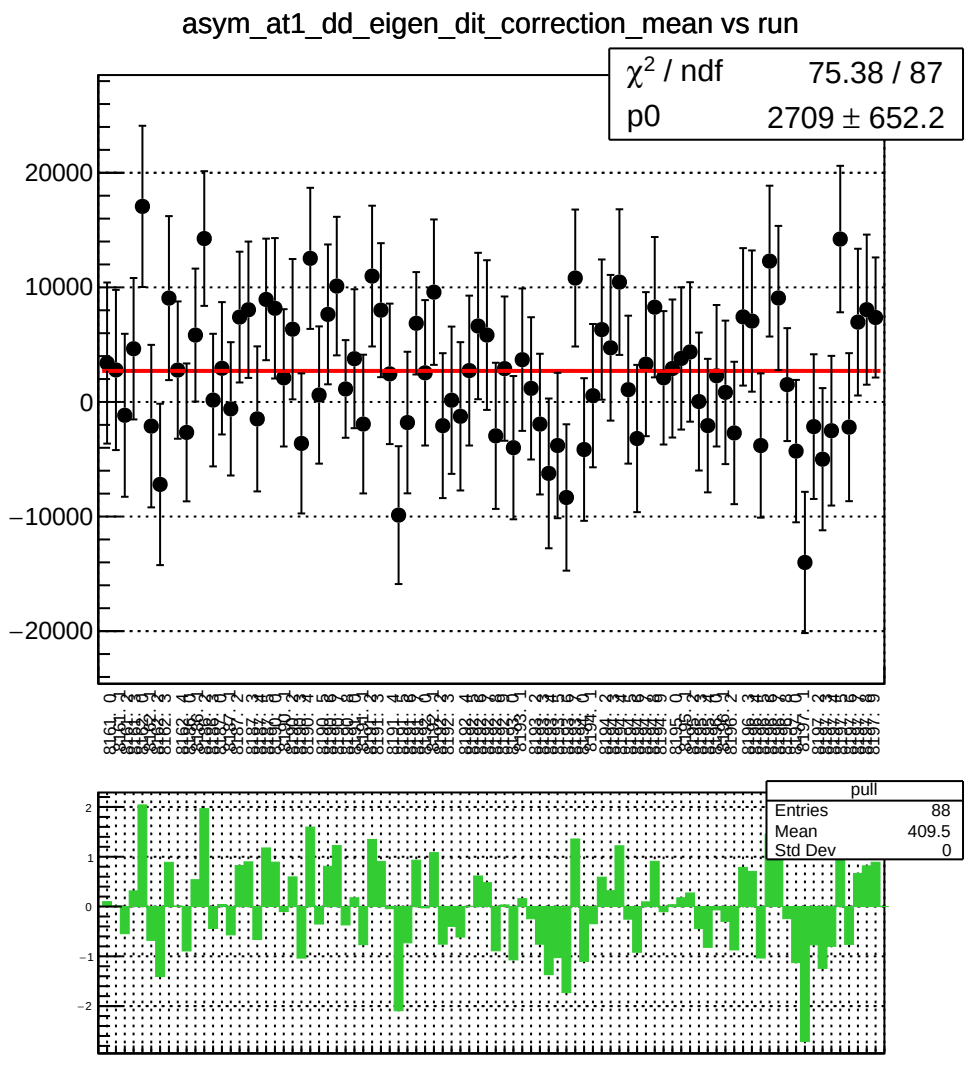

pull1D
Entries 88
Mean −0.008196
Std Dev 0.9255
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

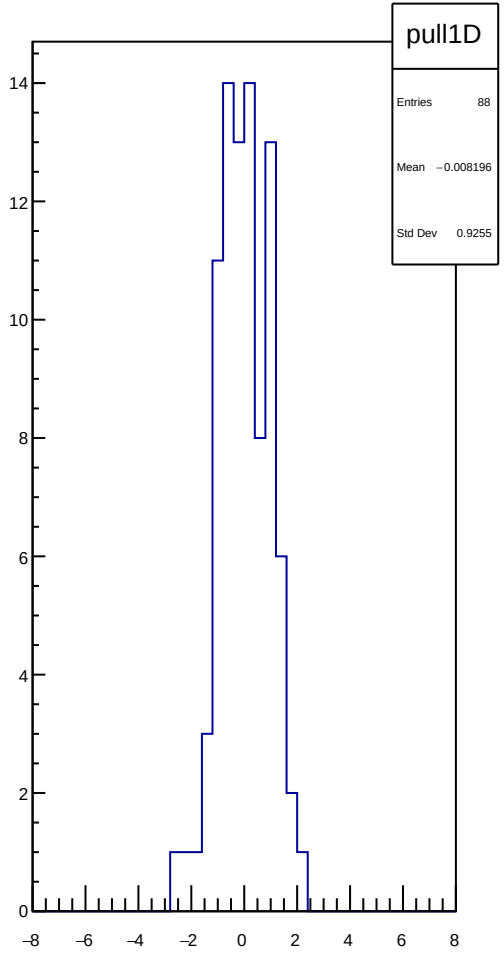

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 4150 / 87
p0 594.7 ± 0.4612
700
680
660
640
620
600
580
560
540

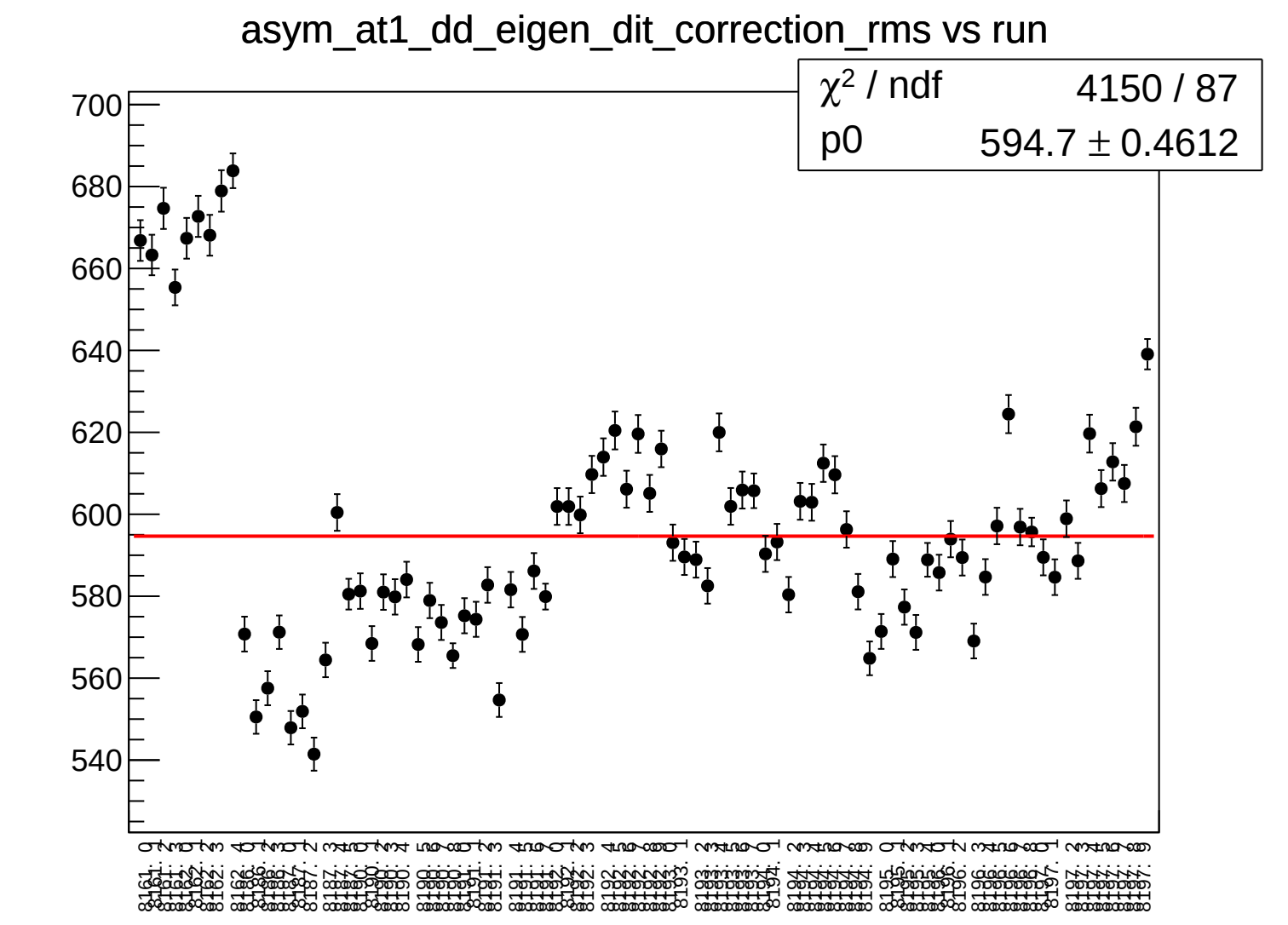

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 80.18 / 87
p0 1069 ± 1978
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −246.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

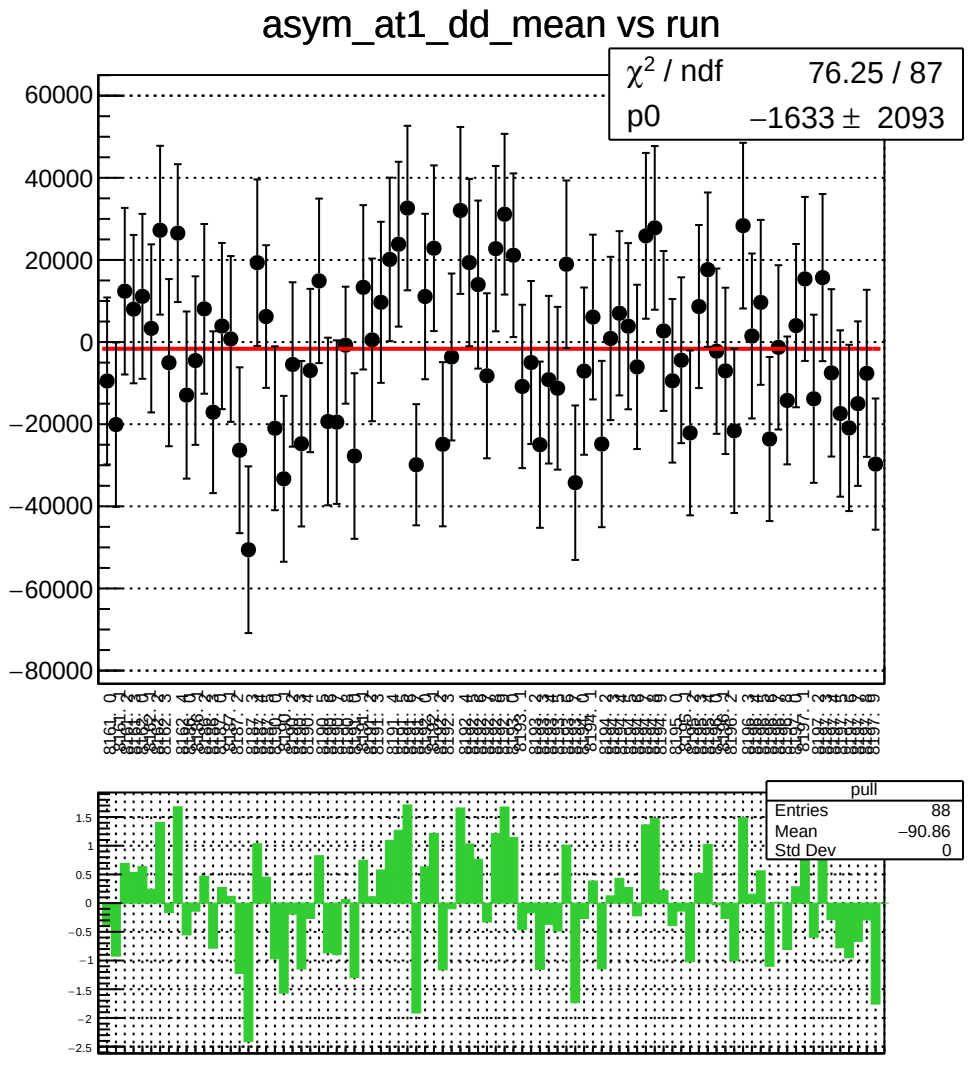

pull1D
Entries 88
Mean 0.008473
Std Dev 0.9545
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

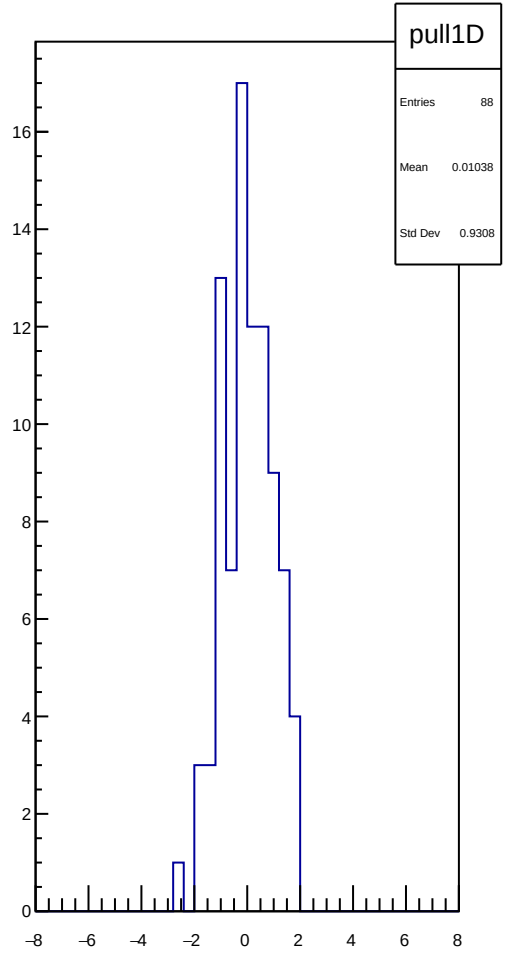

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 108.4 / 87
p0 1805 ± 1.398
1860
1840
1820
1800
1780
1760

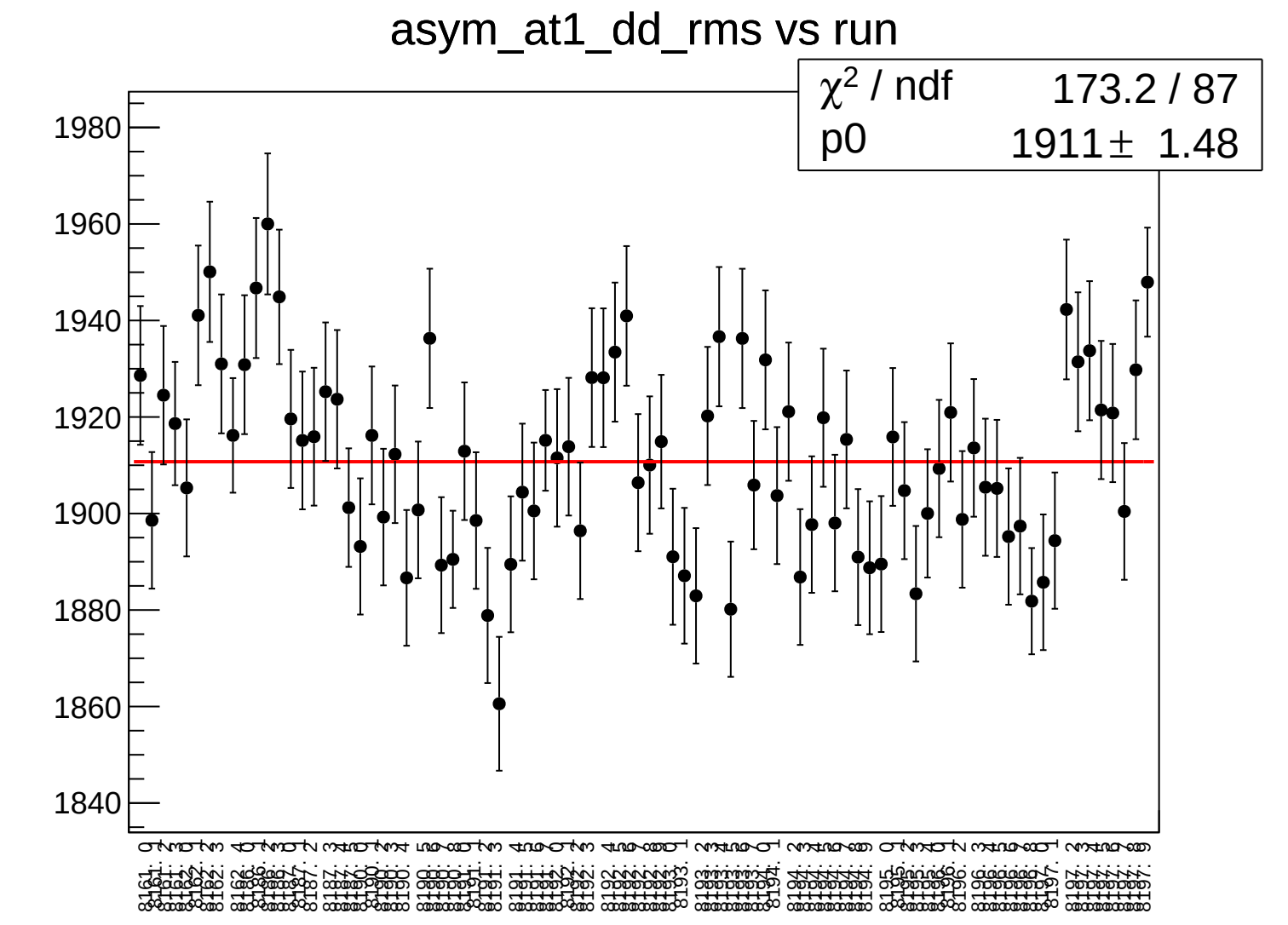

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.38 / 87
p0 2709 ± 652.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 409.5
Std Dev 0
2
1
0
−1
−2

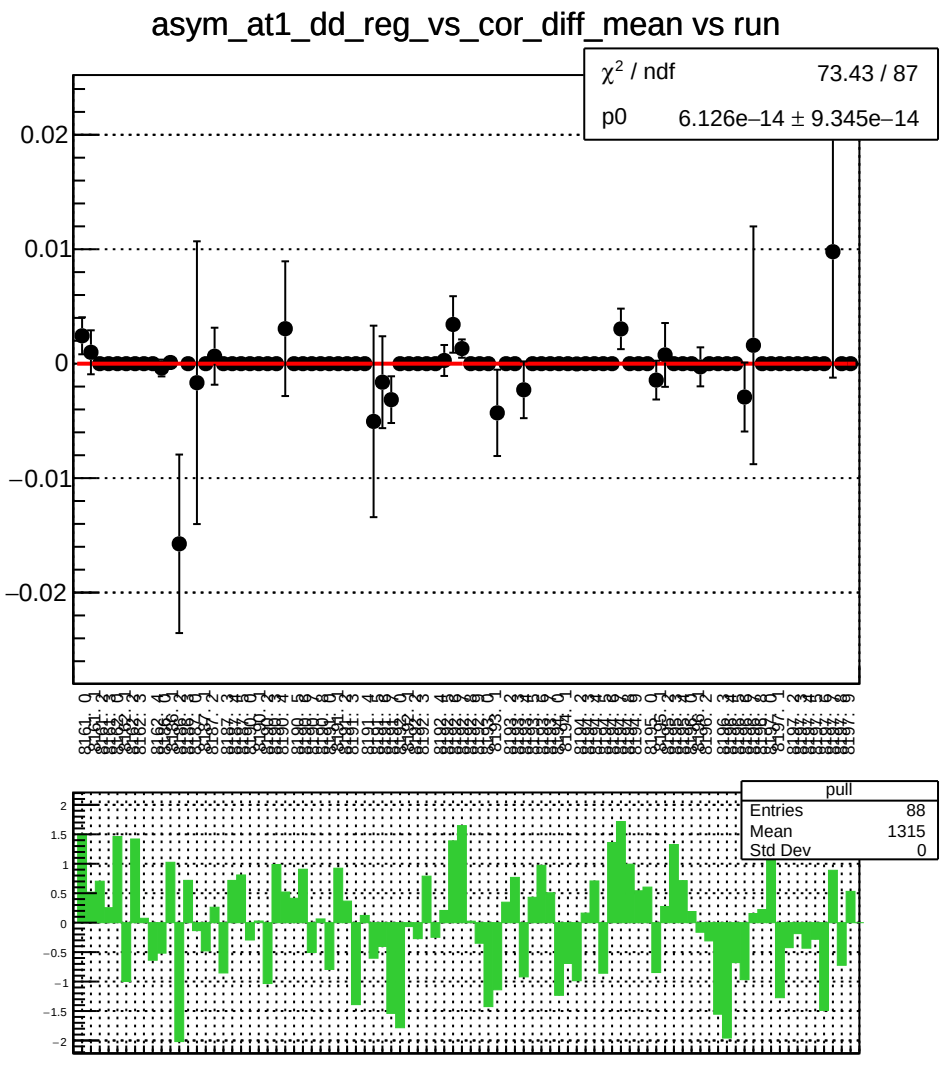

pull1D
Entries 88
Mean −0.008196
Std Dev 0.9255
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

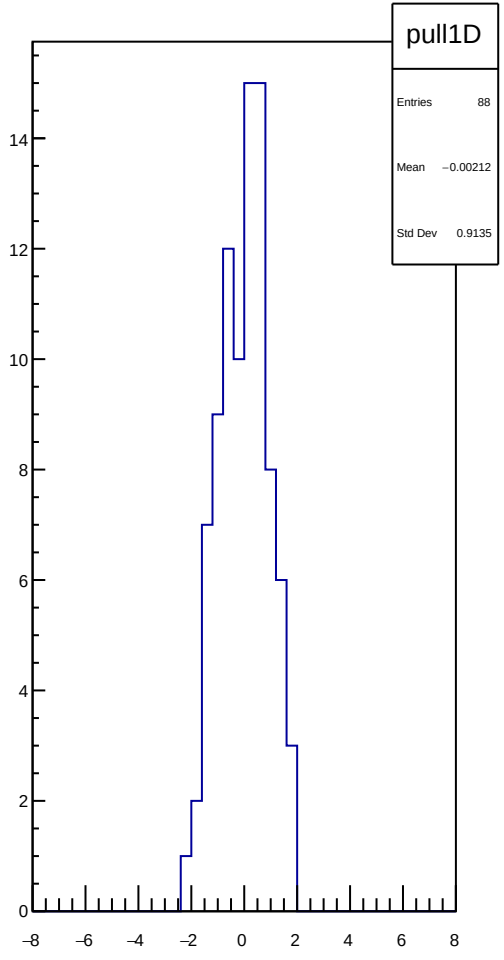

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4150 / 87
p0 594.7 ± 0.4612
700
680
660
640
620
600
580
560
540

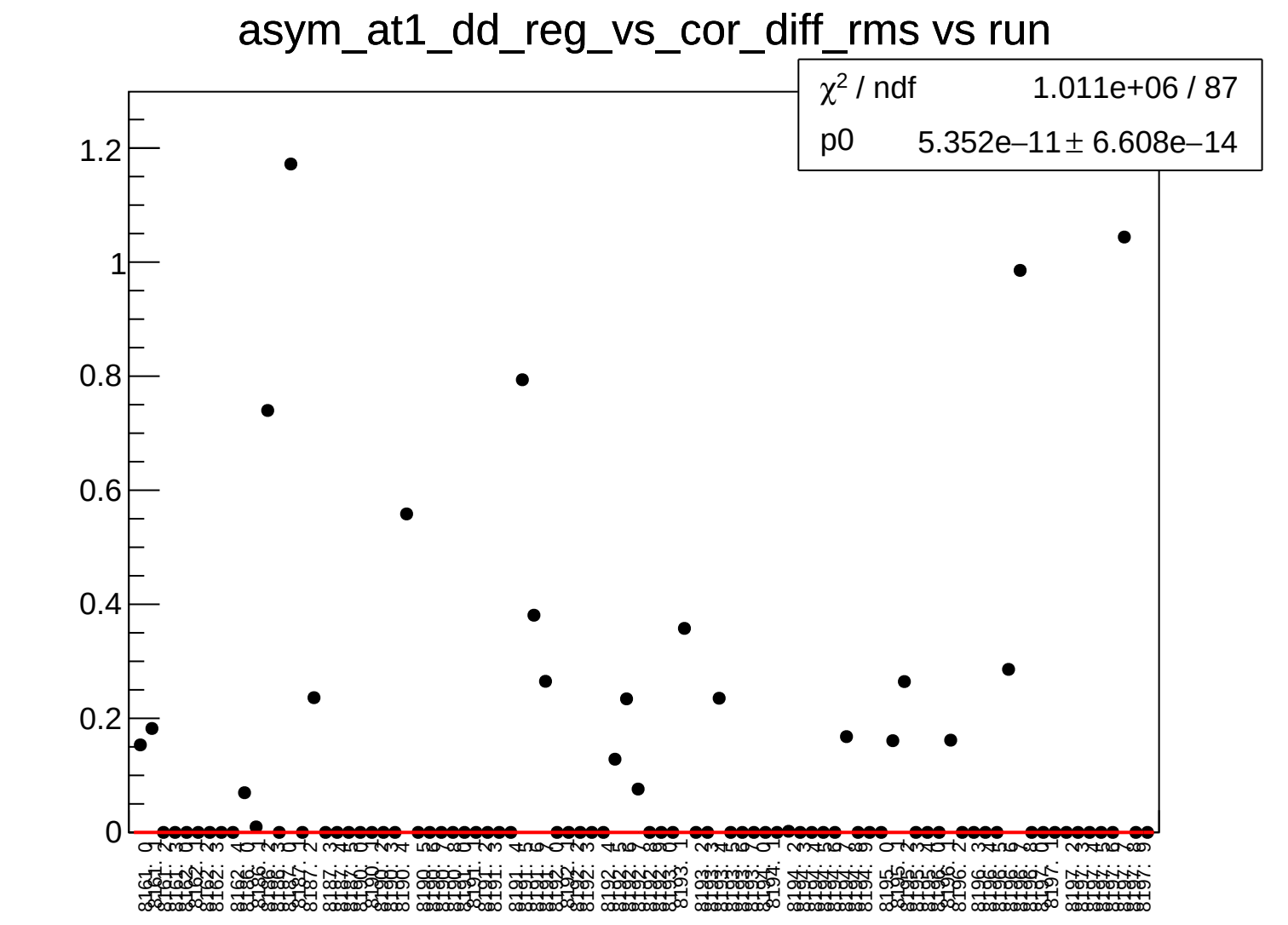

asym_at1_dd_mean vs run
χ² / ndf 76.25 / 87
p0 −1633 ± 2093
pull
Entries 88
Mean −90.86
Std Dev 0

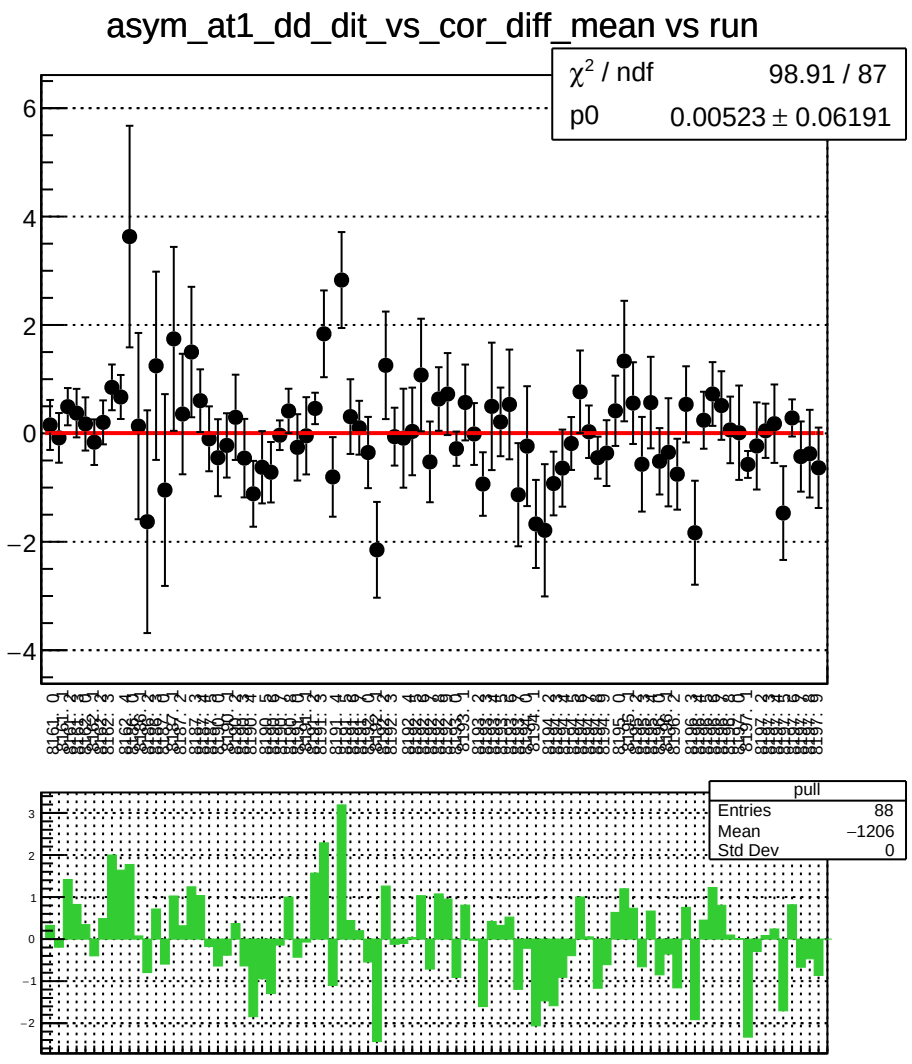

pull1D
Entries 88
Mean 0.01038
Std Dev 0.9308

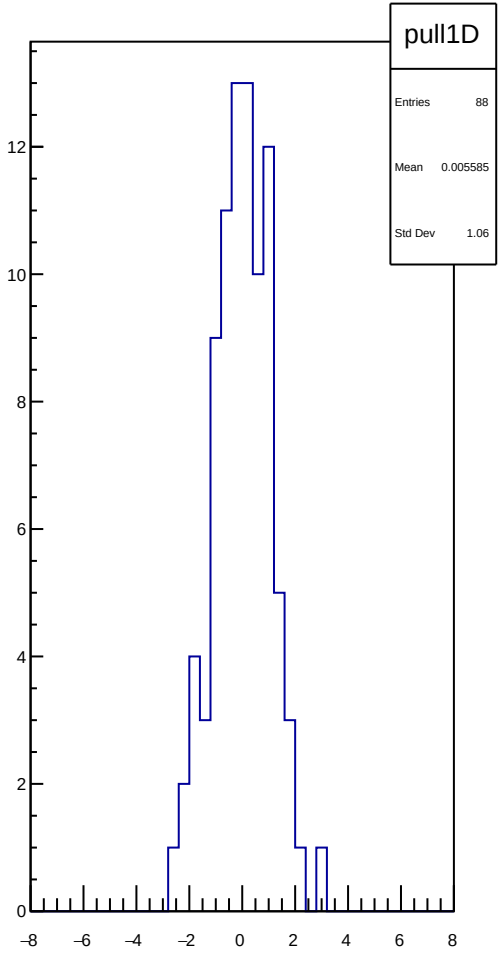

asym_at1_dd_rms vs run
χ² / ndf 173.2 / 87
p0 1911 ± 1.48
1980
1960
1940
1920
1900
1880
1860
1840

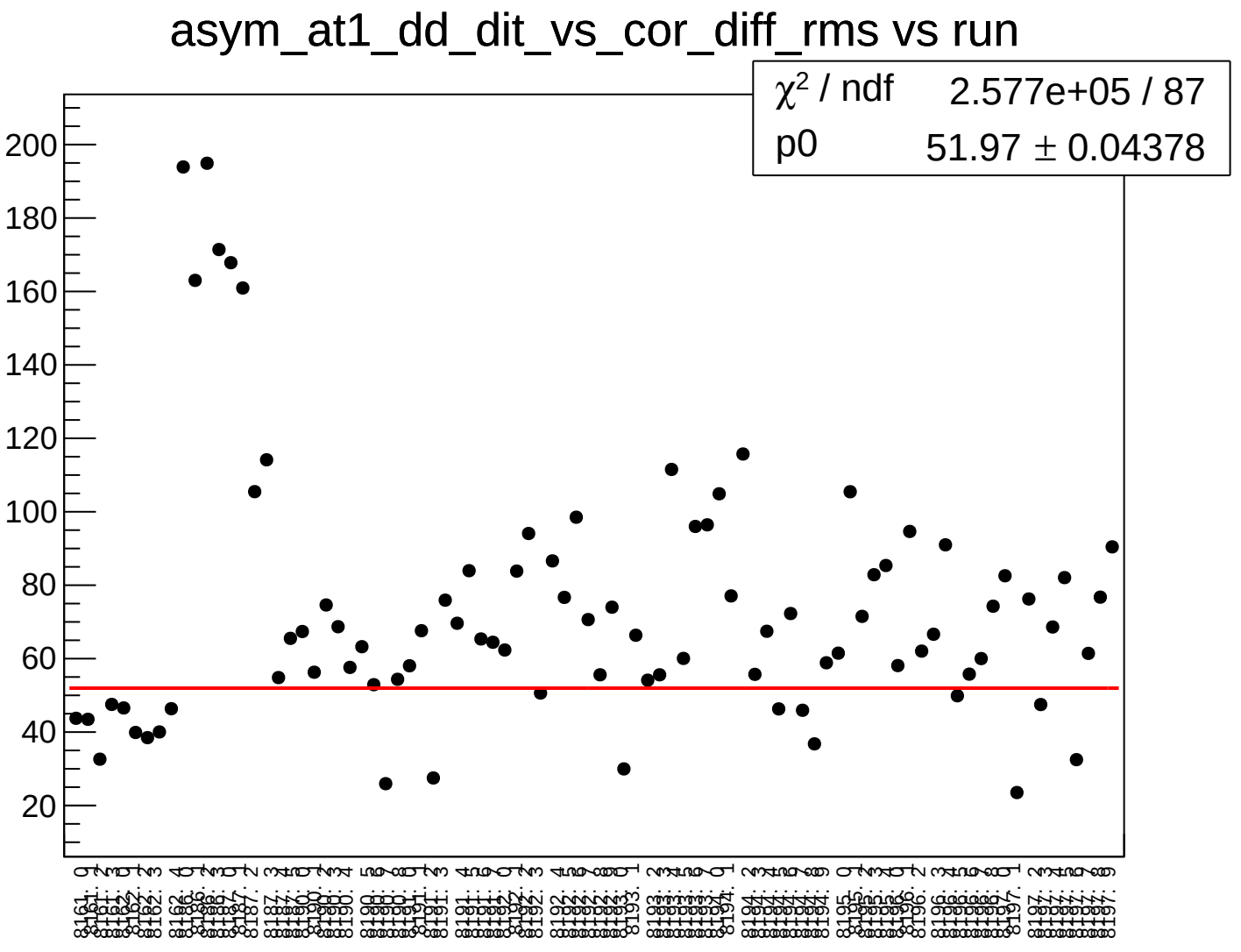

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.43 / 87
p0 6.126e−14 ± 9.345e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 1315
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

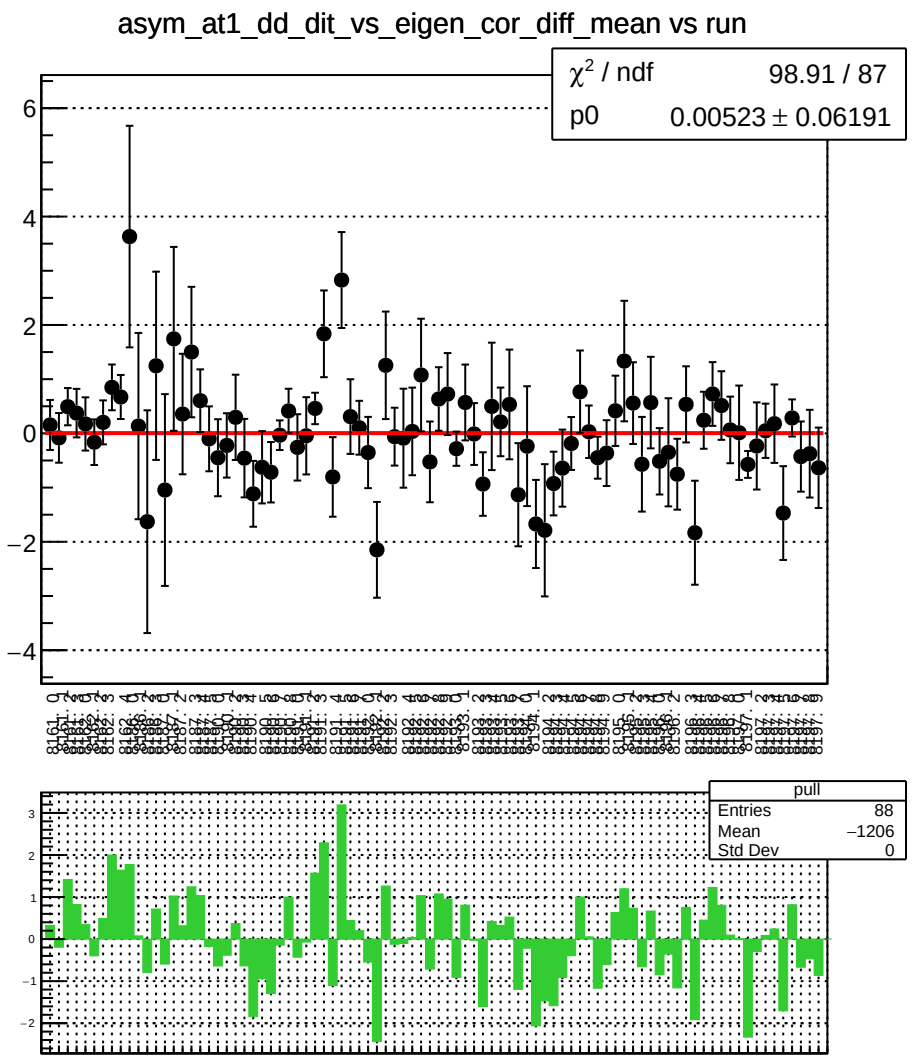

pull1D
Entries 88
Mean −0.00212
Std Dev 0.9135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

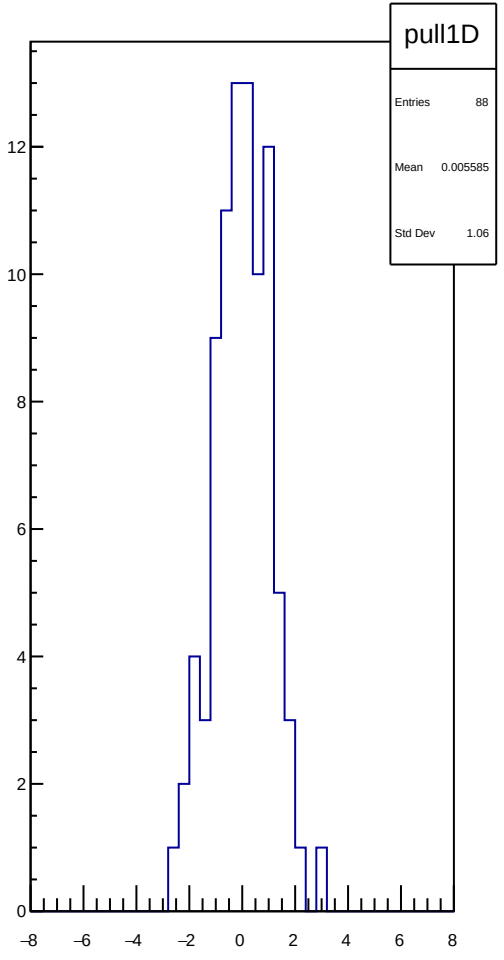

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 87
p0 5.352e−11 ± 6.608e−14
1.2
1
0.8
0.6
0.4
0.2
0

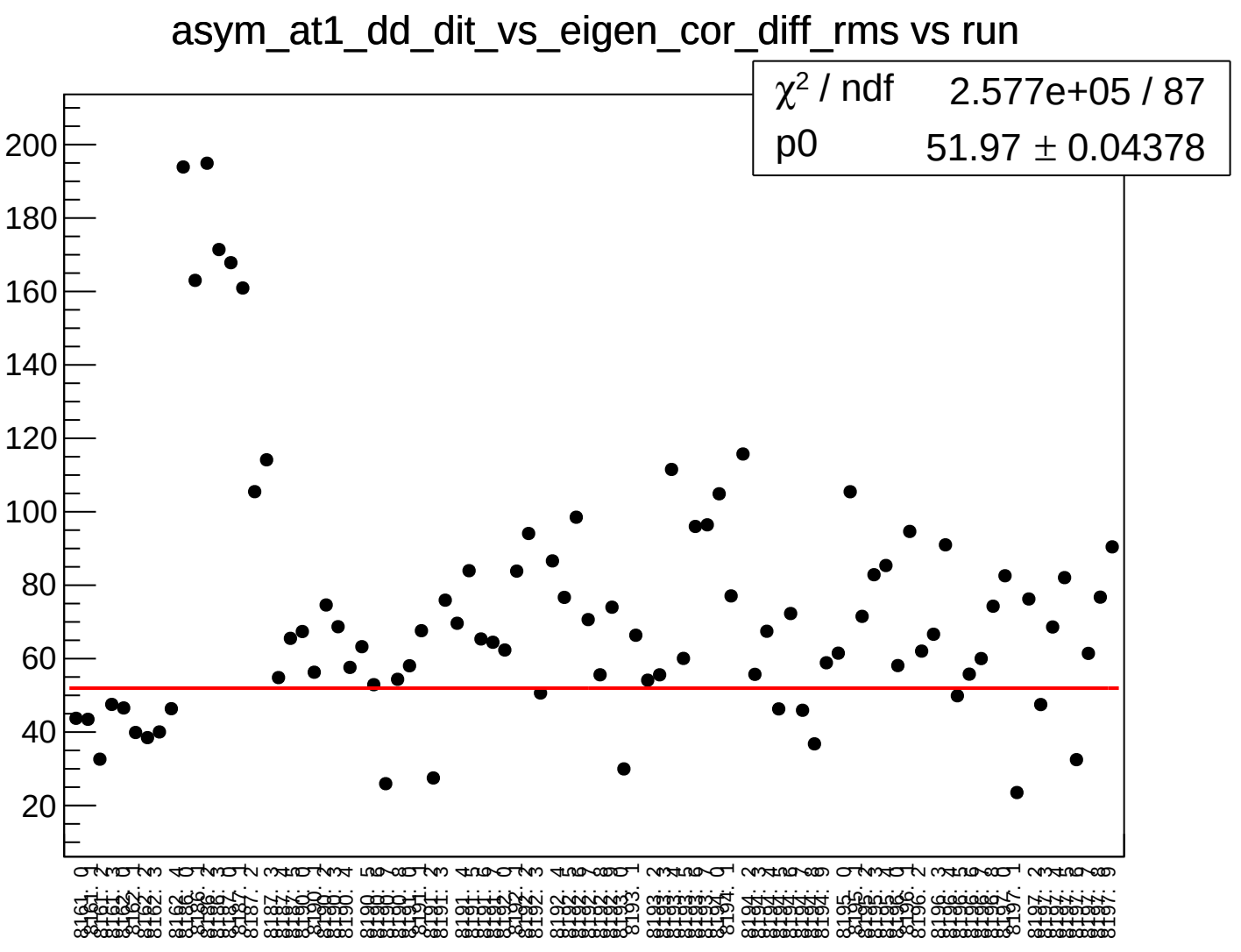

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ^2 / ndf 98.91 / 87
p0 0.00523 ± 0.06191
pull
Entries 88
Mean −1206
Std Dev 0

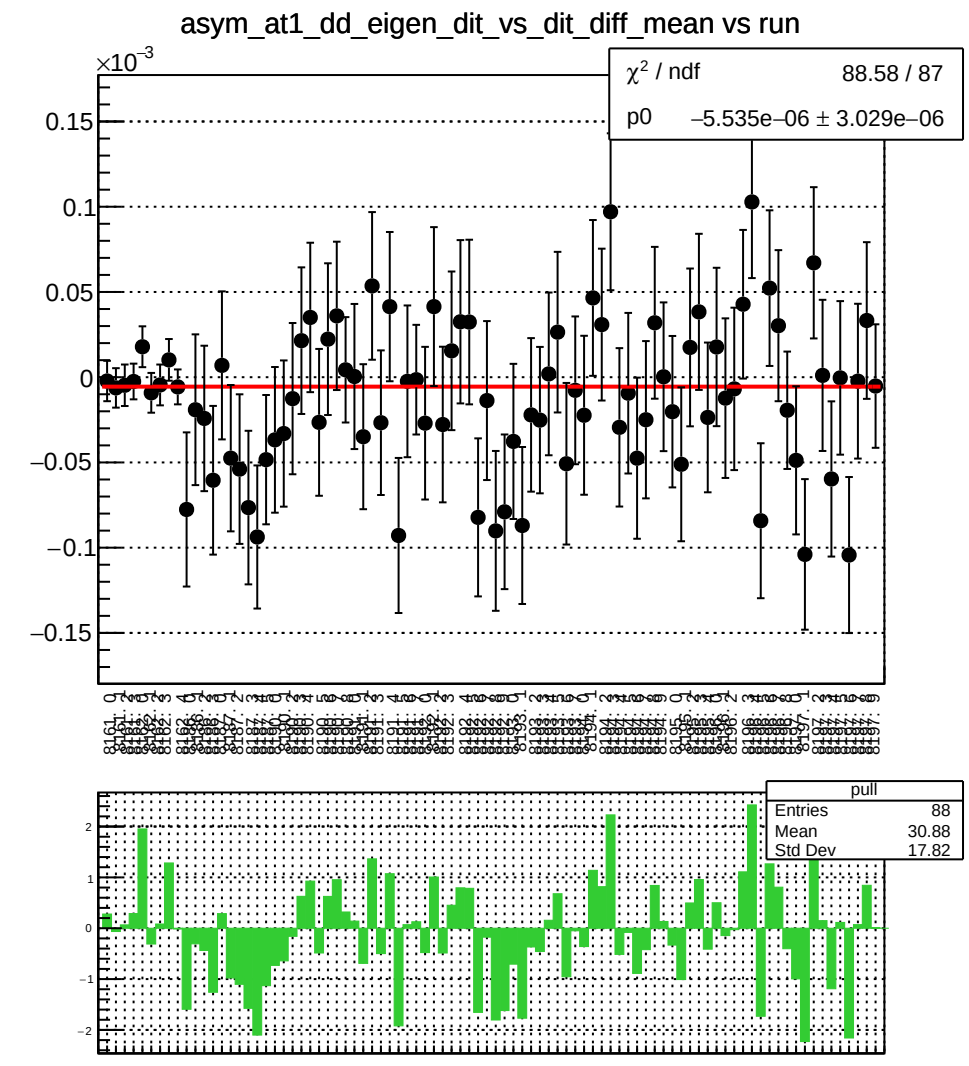

pull1D
Entries 88
Mean 0.005585
Std Dev 1.06

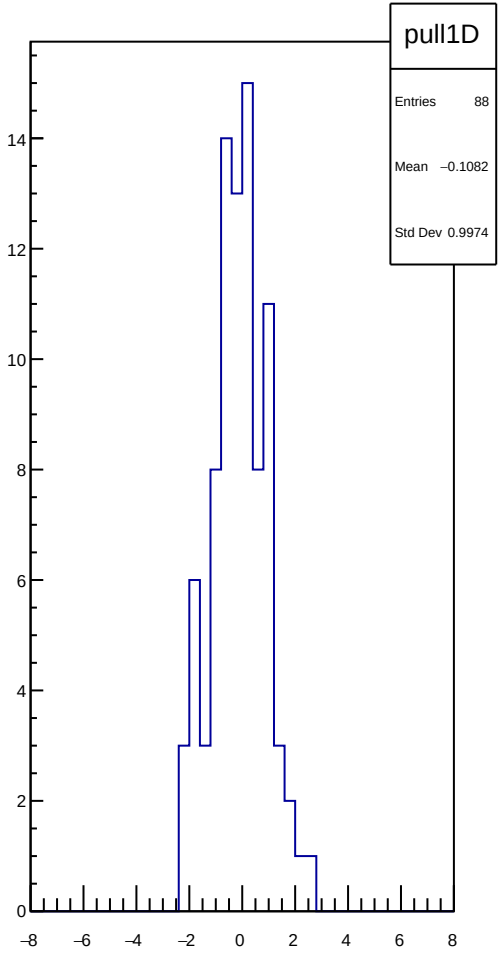

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.577e+05 / 87
p0 51.97 ± 0.04378
200
180
160
140
120
100
80
60
40
20

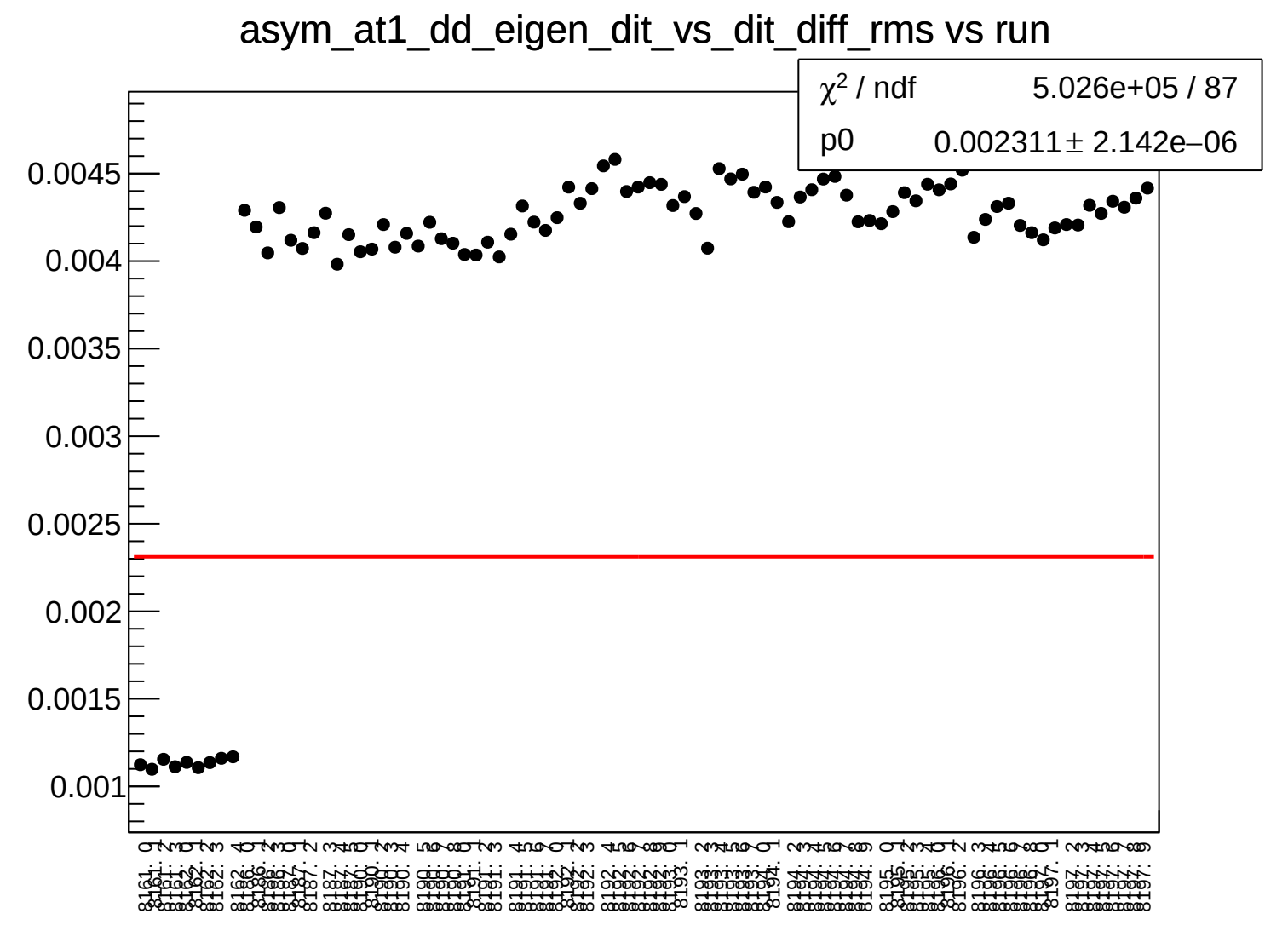

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.91 / 87
p0 0.00523 ± 0.06191
pull
Entries 88
Mean −1206
Std Dev 0


pull1D
Entries 88
Mean 0.005585
Std Dev 1.06

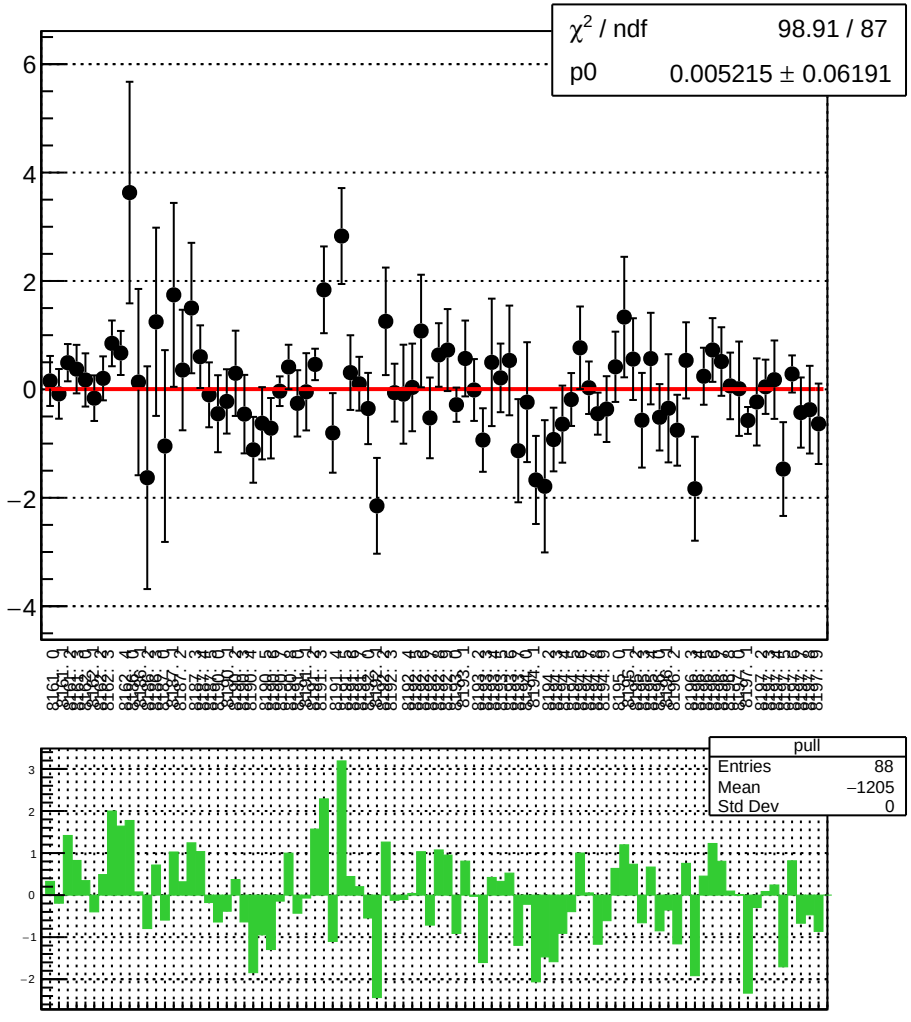

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.577e+05 / 87
p0 51.97 ± 0.04378
200
180
160
140
120
100
80
60
40
20

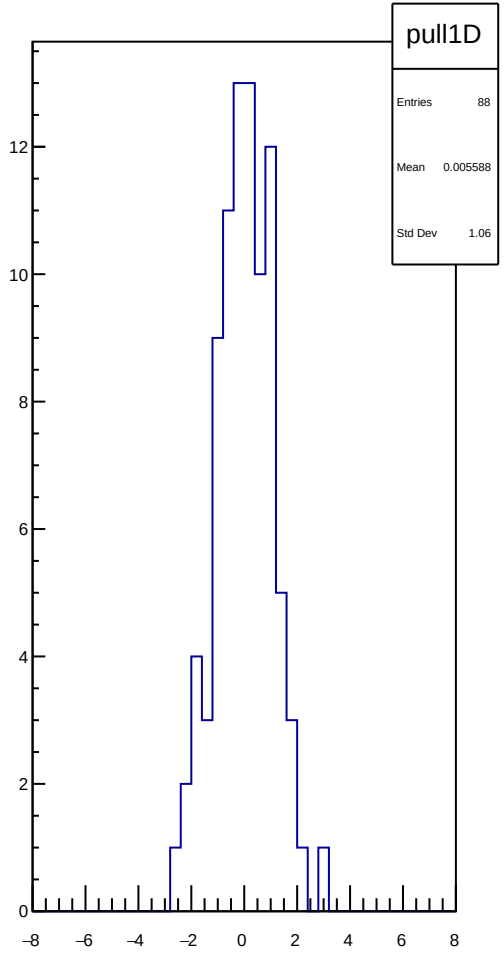

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.58 / 87
p0 −5.535e−06 ± 3.029e−06
pull
Entries 88
Mean 30.88
Std Dev 17.82

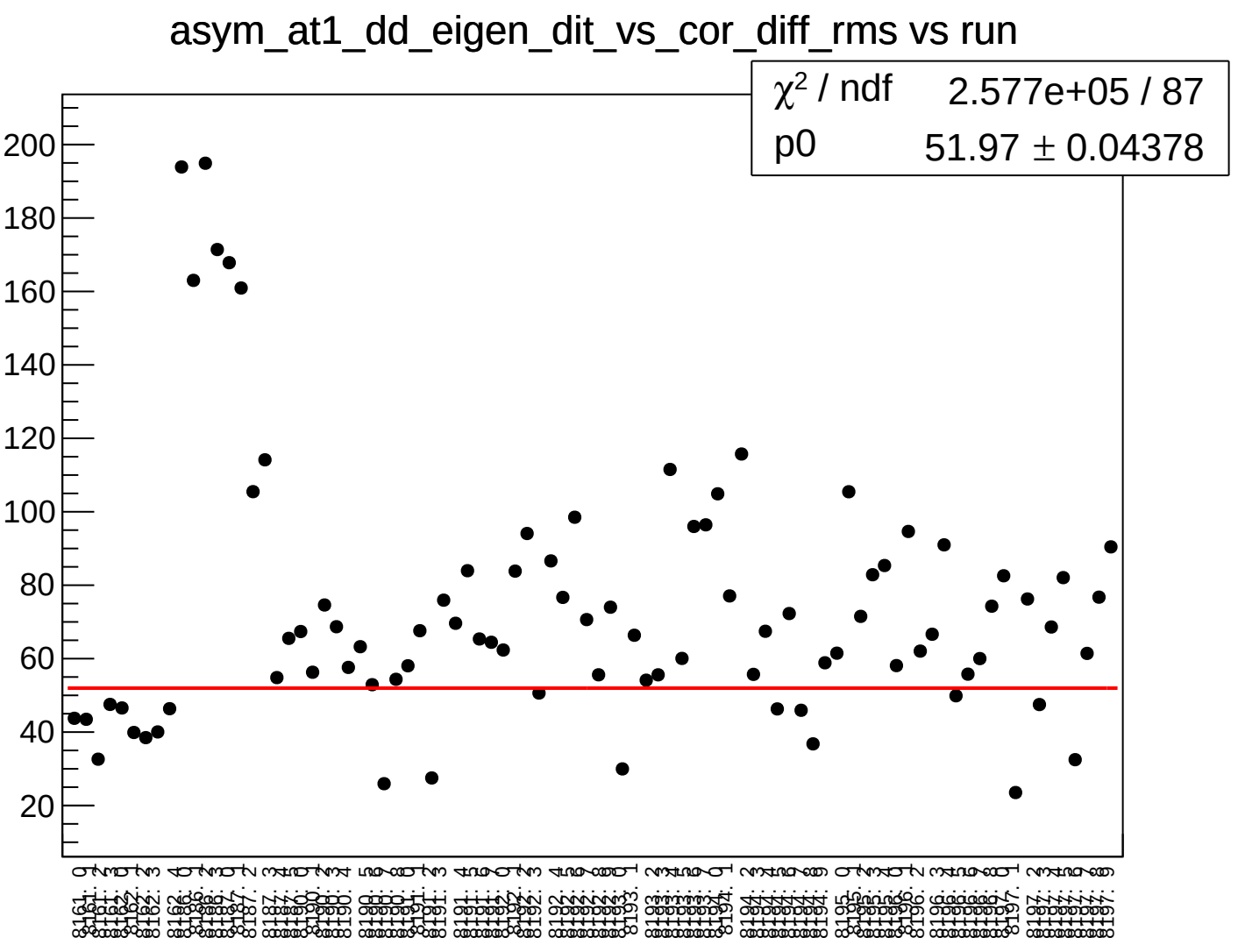

pull1D
Entries 88
Mean −0.1082
Std Dev 0.9974

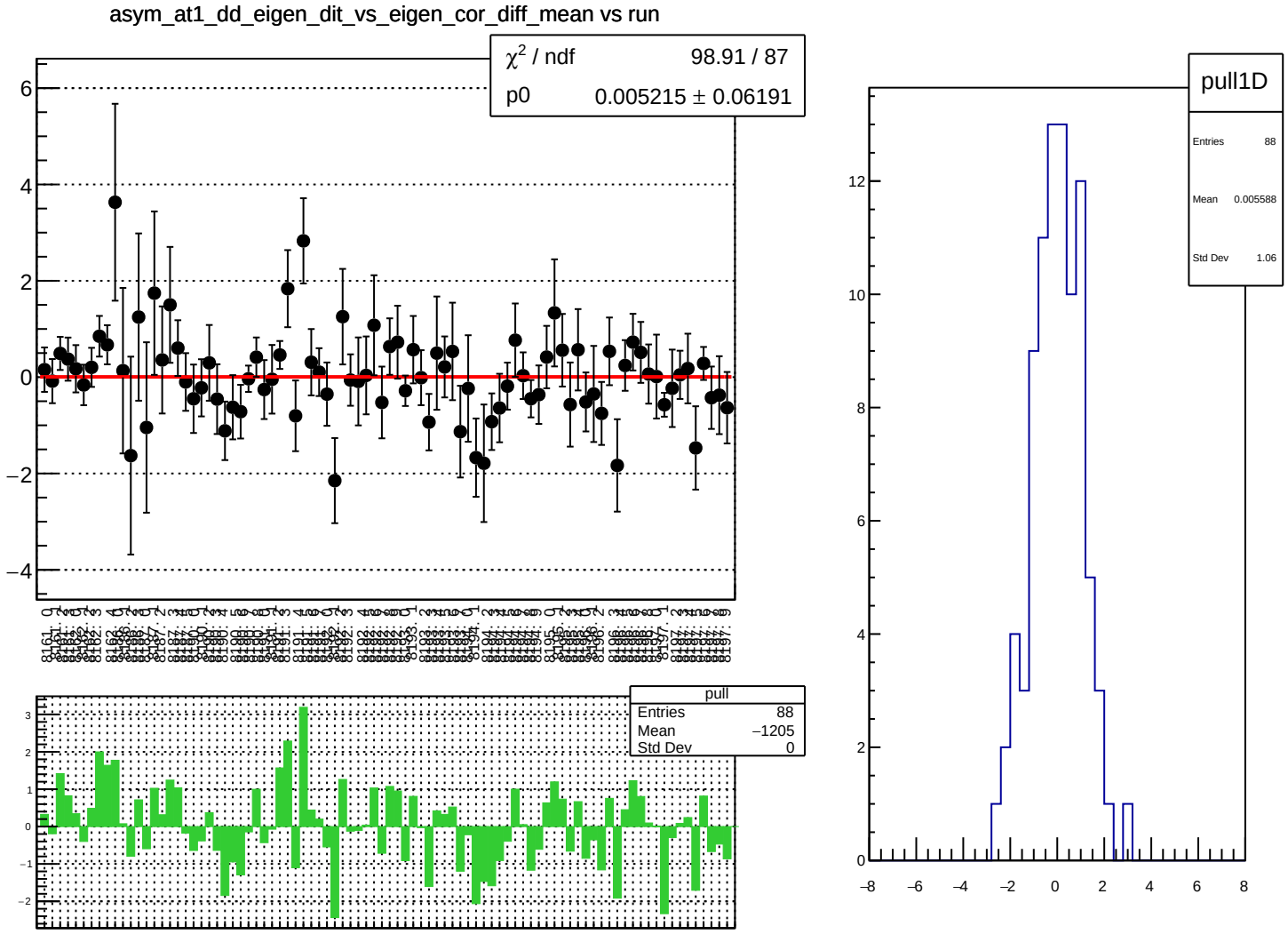

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.026e+05 / 87
p0 0.002311 ± 2.142e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

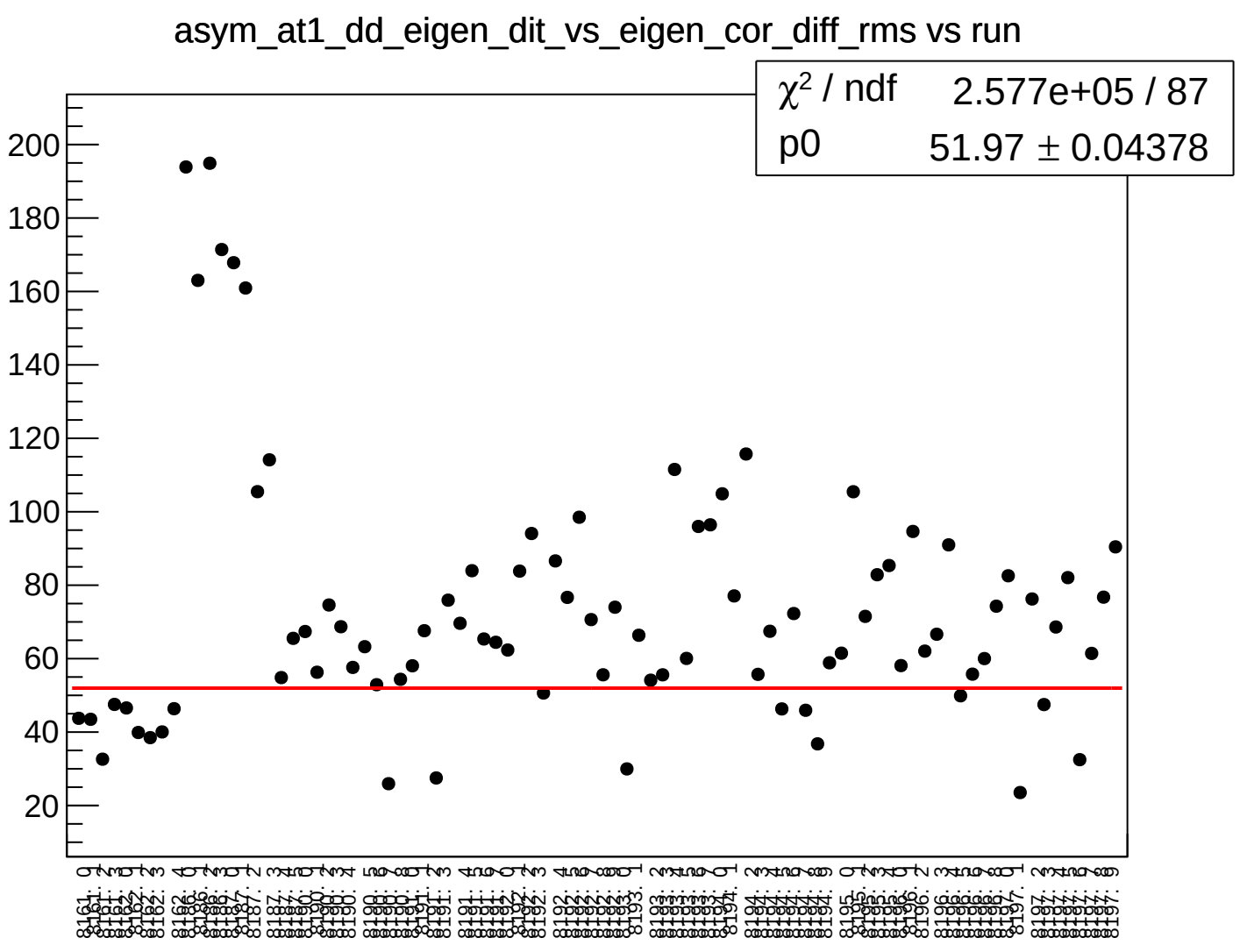
asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run

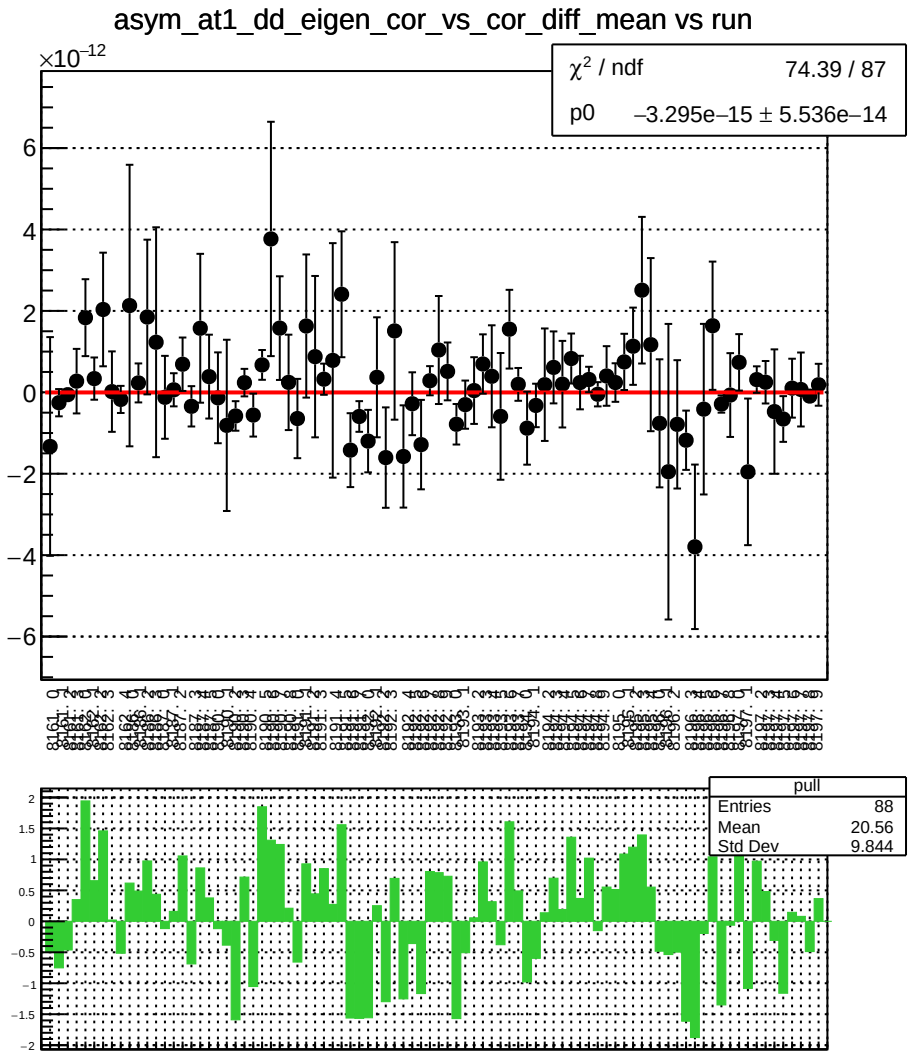


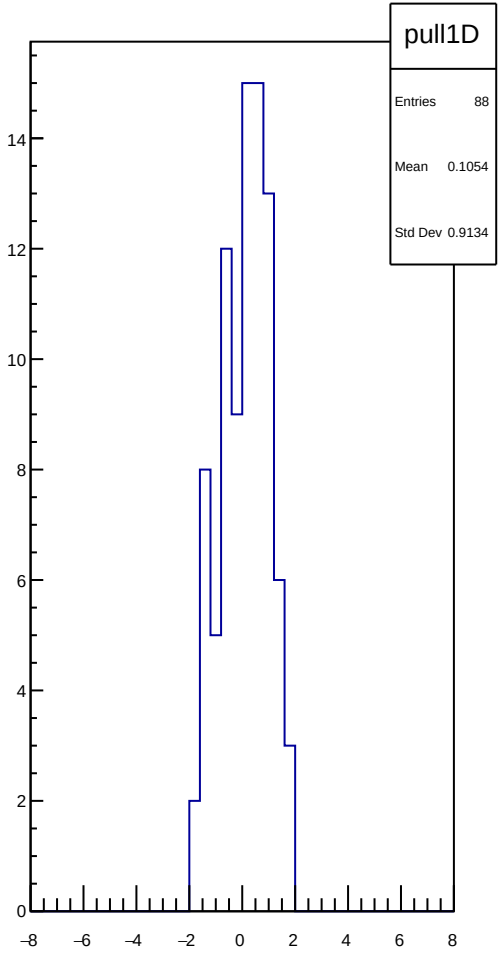


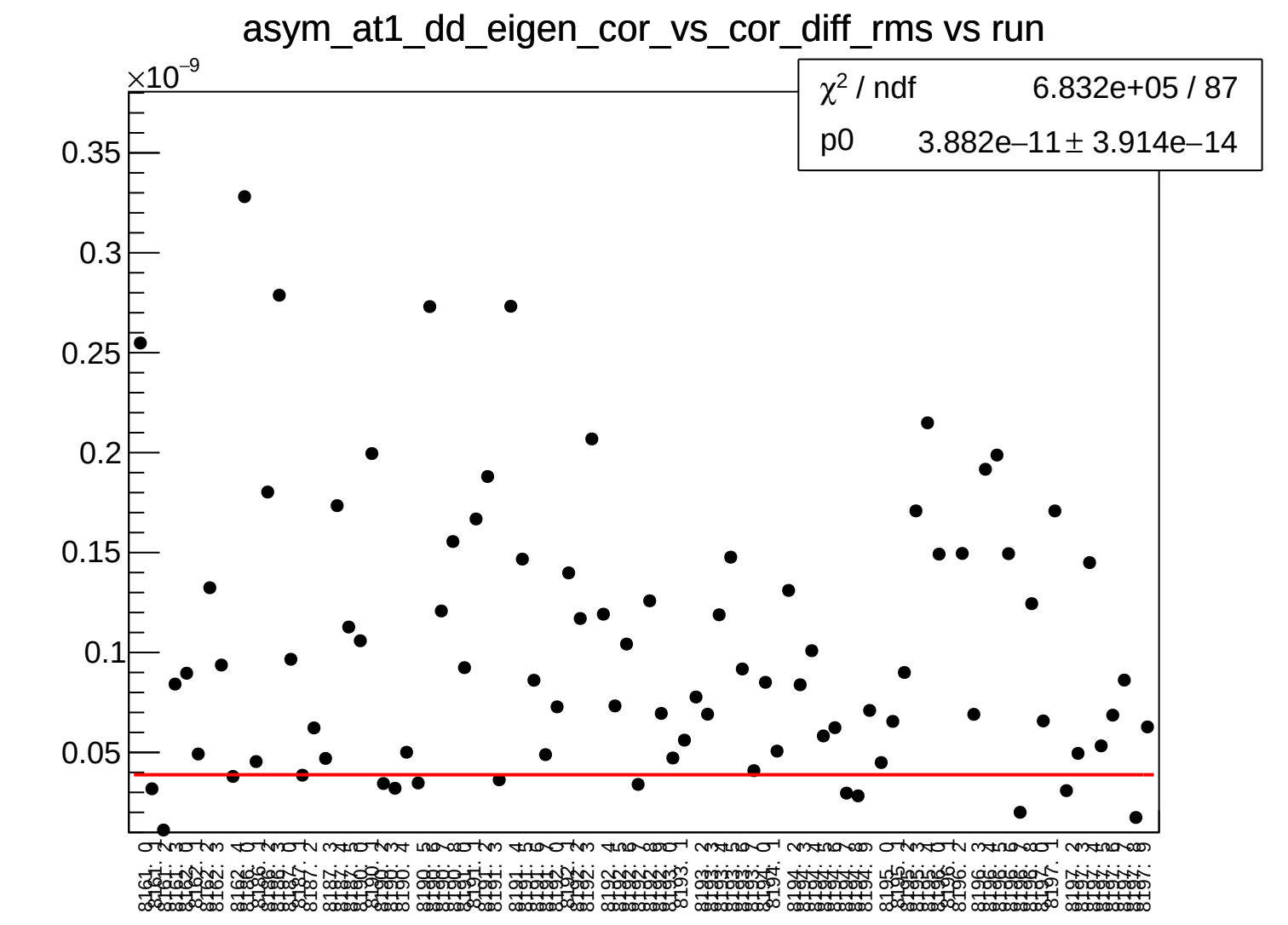

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.577e+05 / 87
p0 51.97 ± 0.04378
200
180
160
140
120
100
80
60
40
20

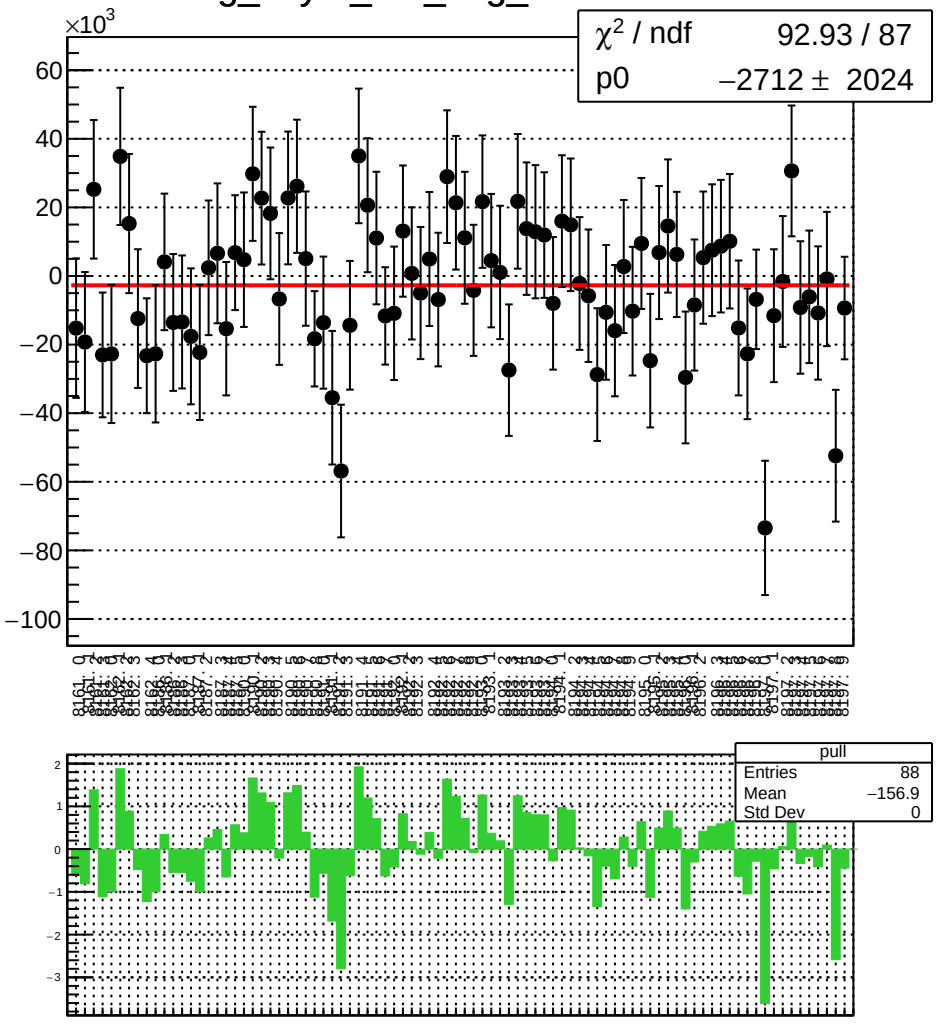

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.91 / 87
p0 0.005215 ± 0.06191
pull
Entries 88
Mean −1205
Std Dev 0
pull1D
Entries 88
Mean 0.005588
Std Dev 1.06

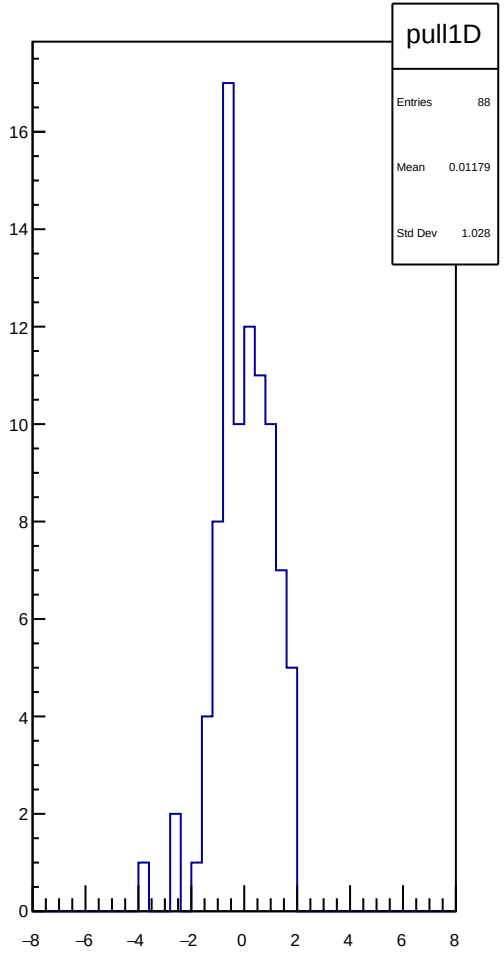

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.577e+05 / 87
p0 51.97 ± 0.04378
200
180
160
140
120
100
80
60
40
20

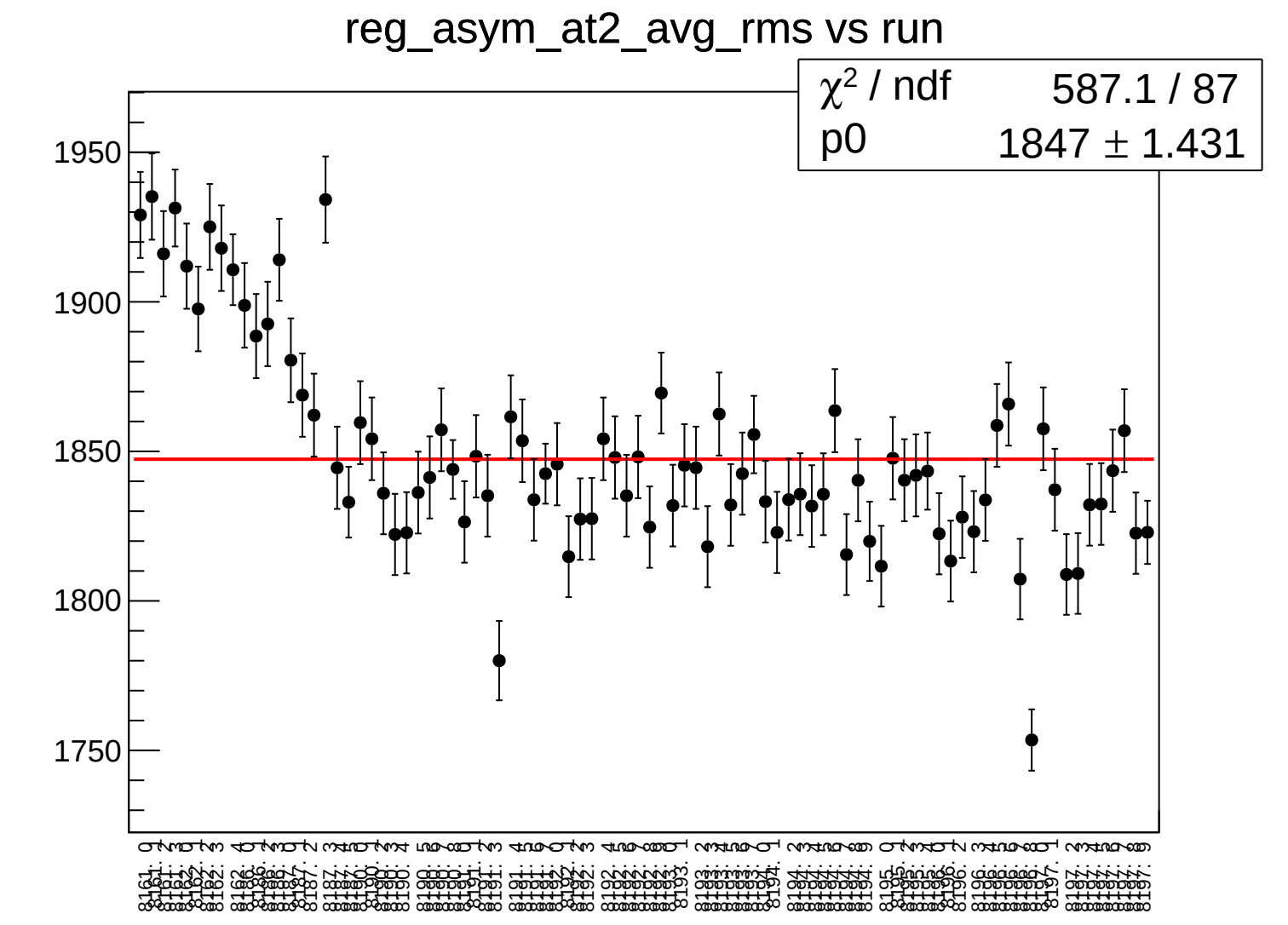

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.39 / 87
p0 −3.295e−15 ± 5.536e−14
pull
Entries 88
Mean 20.56
Std Dev 9.844

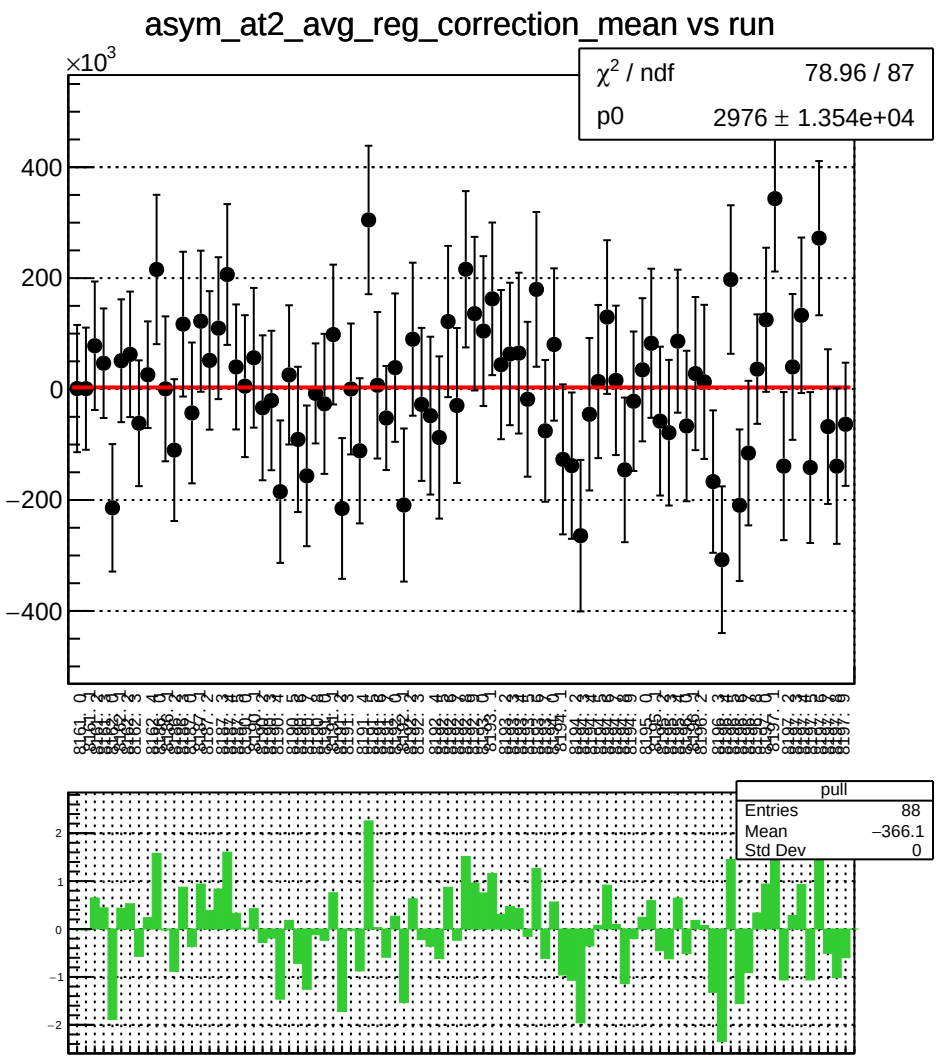

pull1D
Entries 88
Mean 0.1054
Std Dev 0.9134

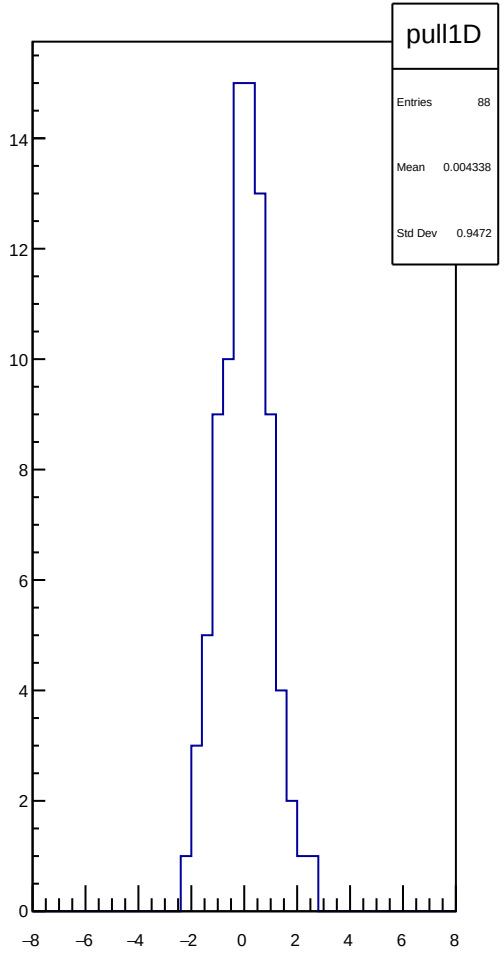

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.832e+05 / 87
p0 3.882e−11 ± 3.914e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

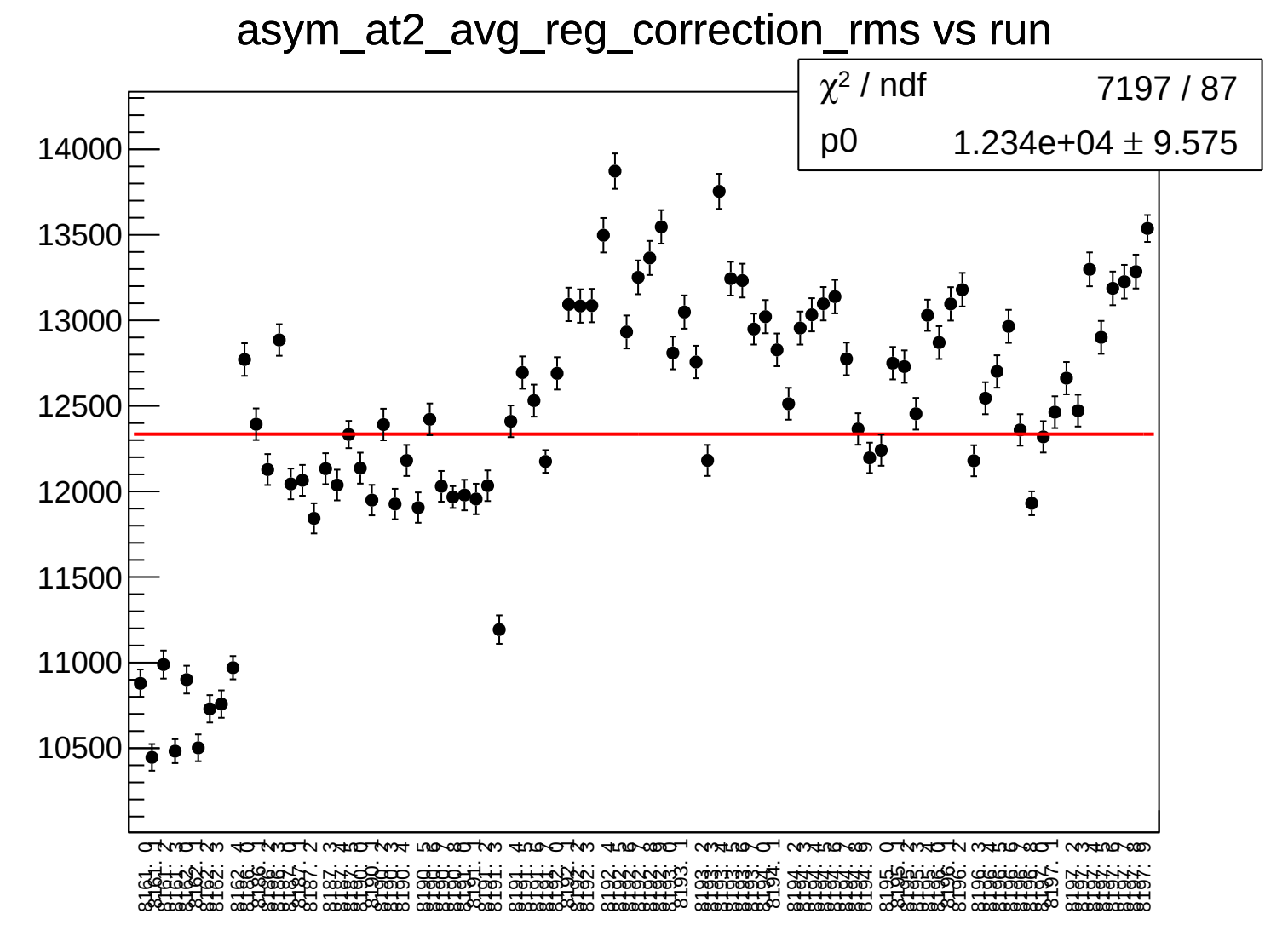

reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.93 / 87
p0 −2712 ± 2024
pull
Entries 88
Mean −156.9
Std Dev 0

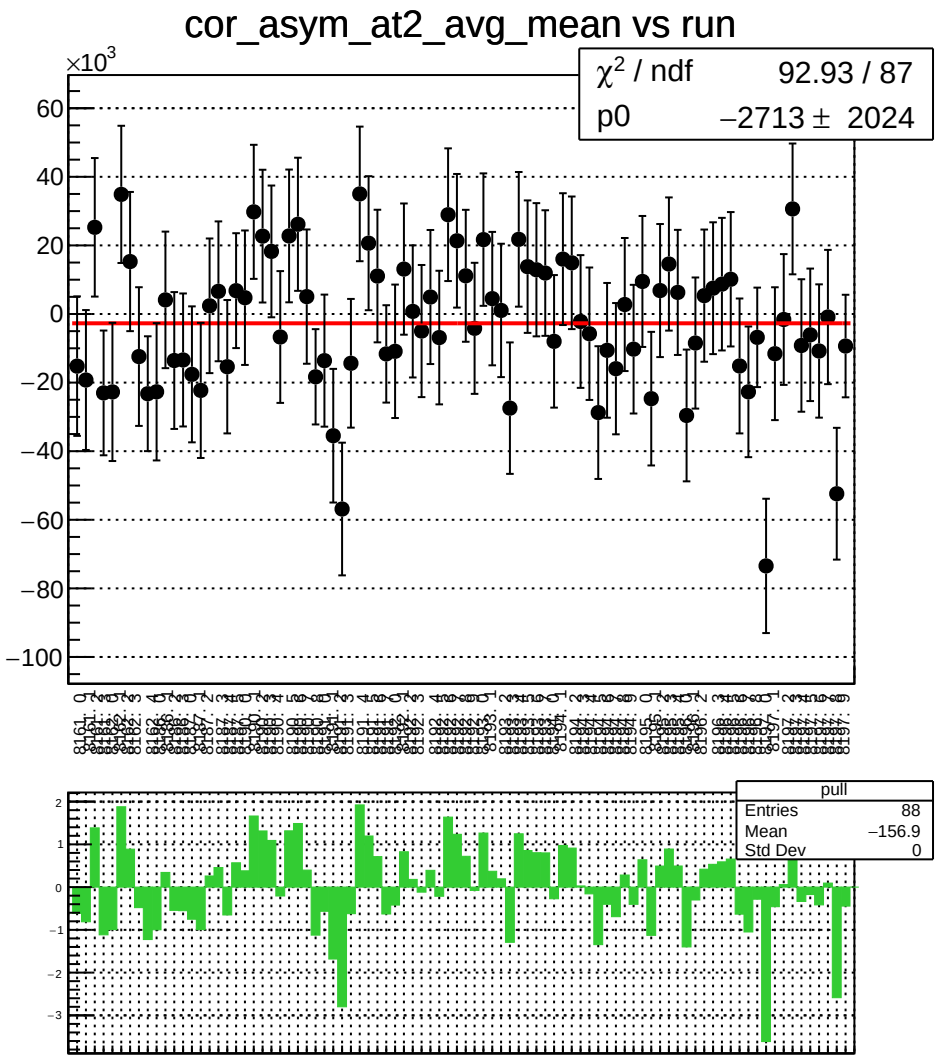

pull1D
Entries 88
Mean 0.01179
Std Dev 1.028

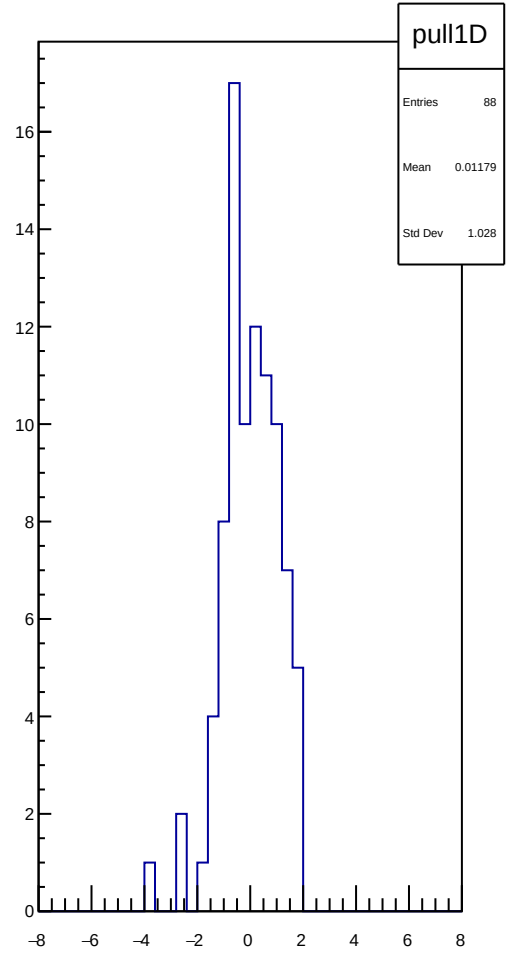

reg_asym_at2_avg_rms vs run
χ² / ndf 587.1 / 87
p0 1847 ± 1.431
1950
1900
1850
1800
1750

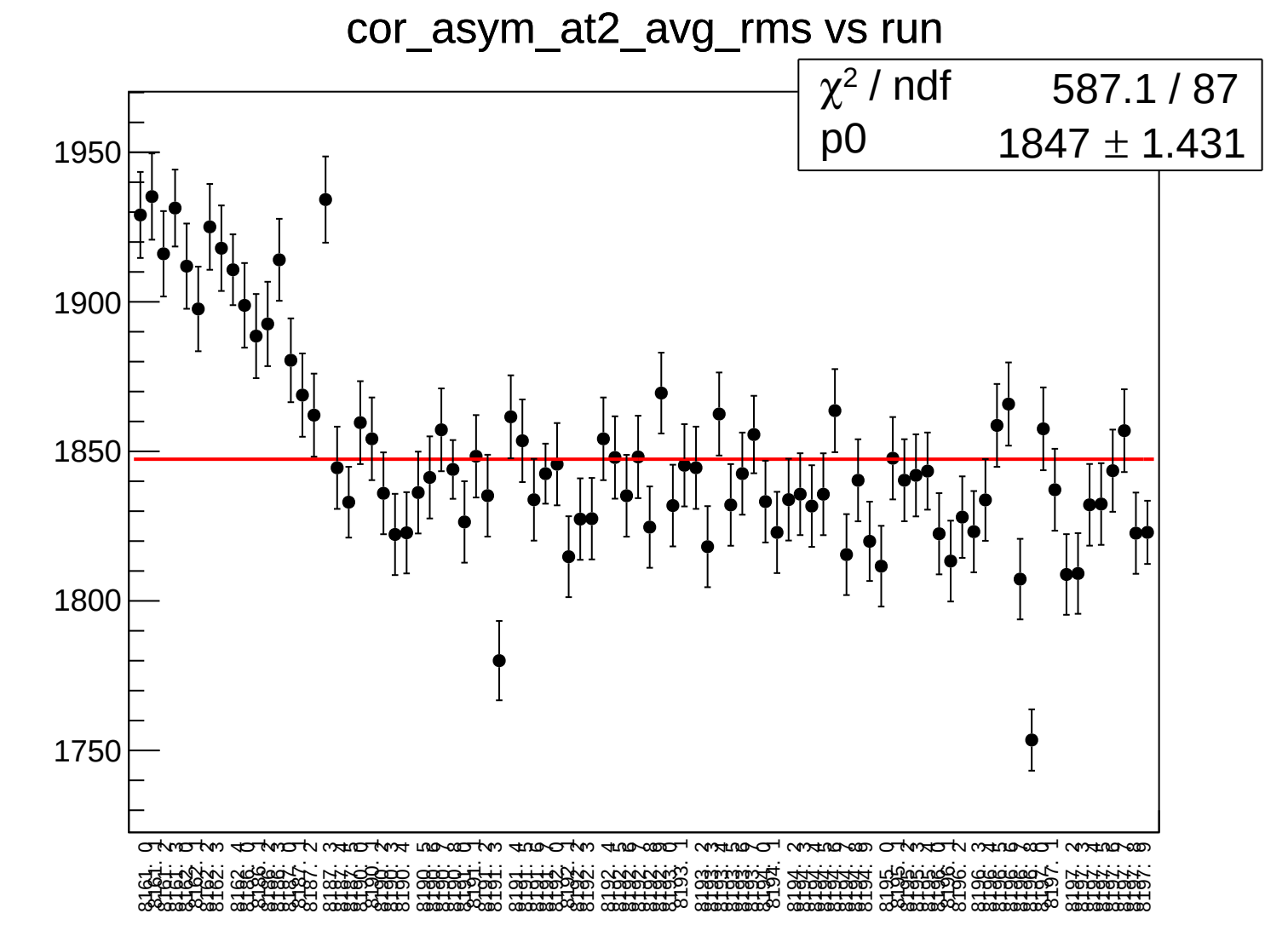

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.96 / 87
p0 2976 ± 1.354e+04
400
200
0
−200
−400
pull
Entries 88
Mean −366.1
Std Dev 0
2
1
0
−1
−2

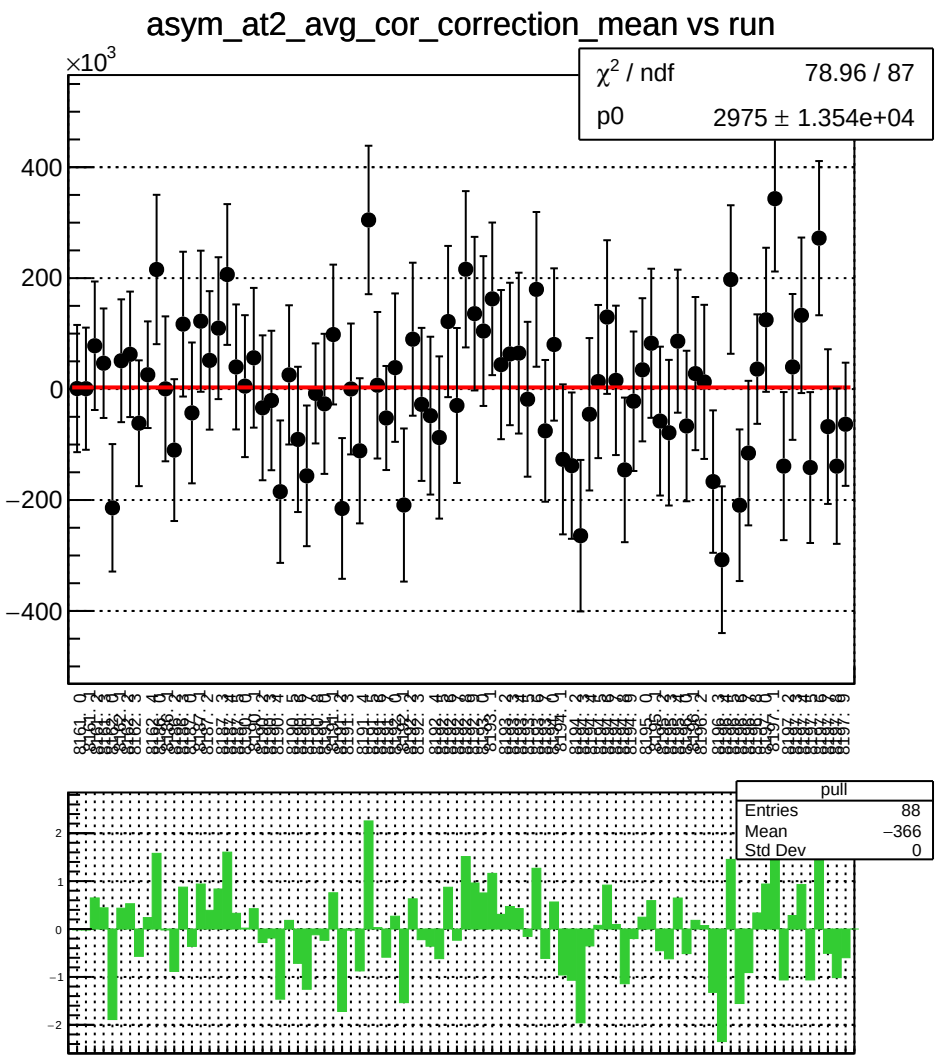

pull1D
Entries 88
Mean 0.004338
Std Dev 0.9472
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

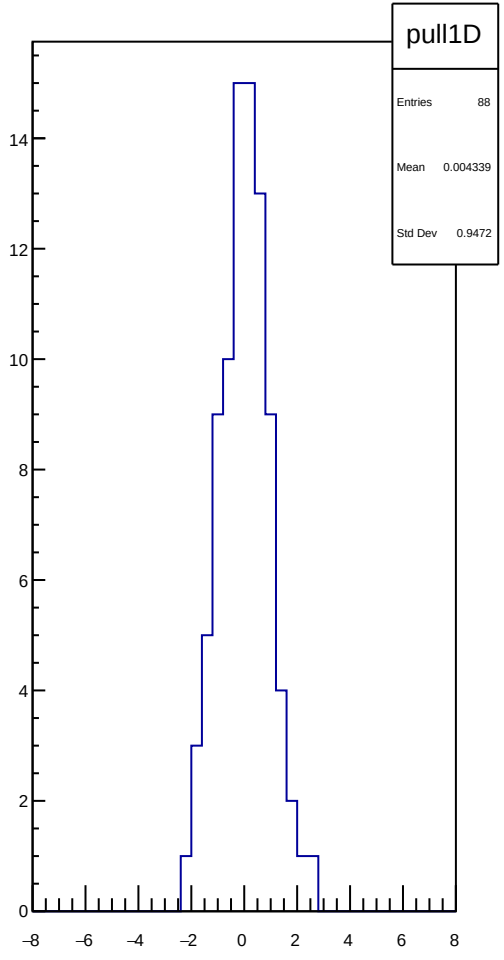

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 7197 / 87
p0 1.234e+04 ± 9.575
14000
13500
13000
12500
12000
11500
11000
10500

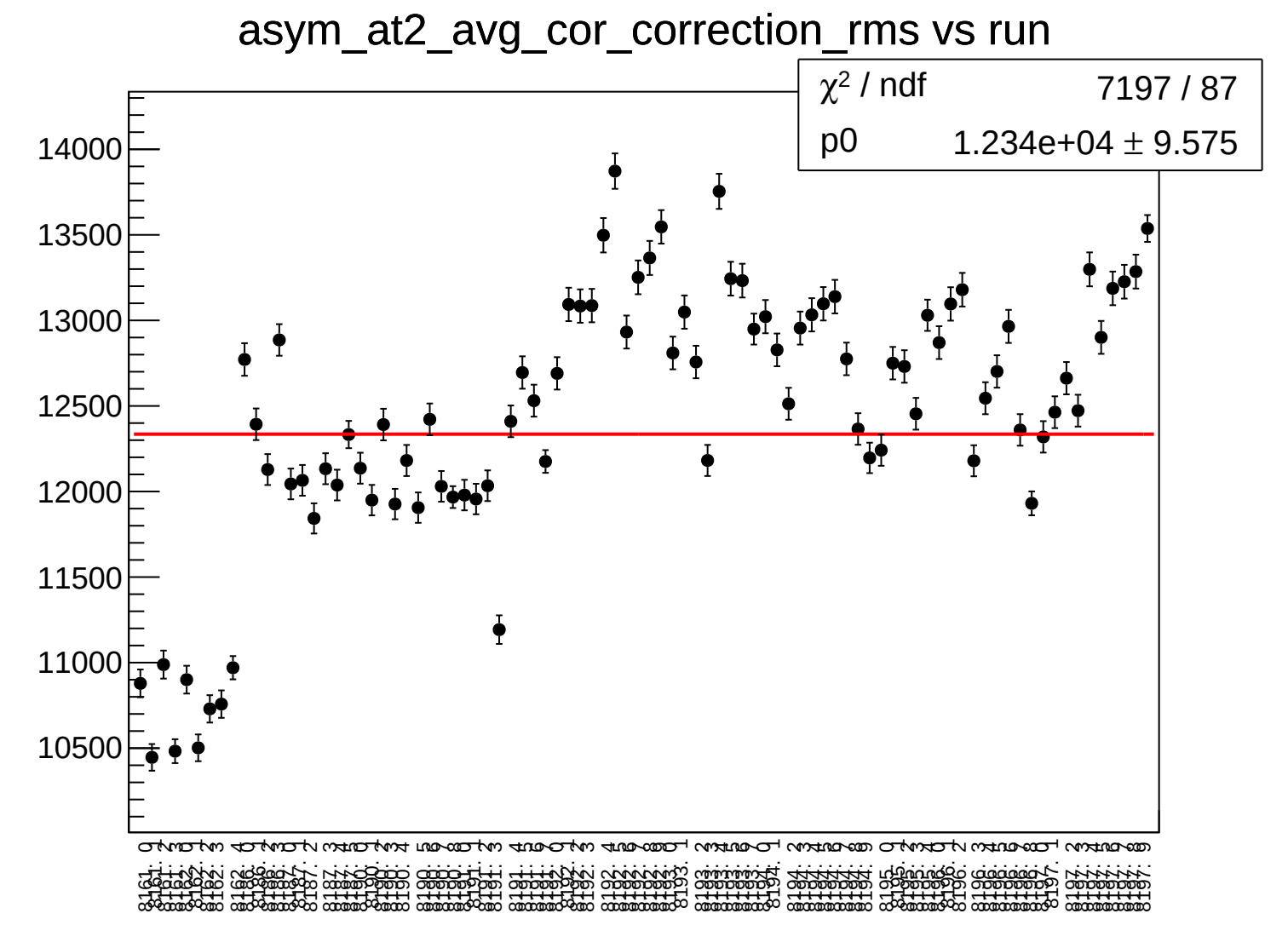

cor_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 92.93 / 87
p0 −2713 ± 2024
pull
Entries 88
Mean −156.9
Std Dev 0

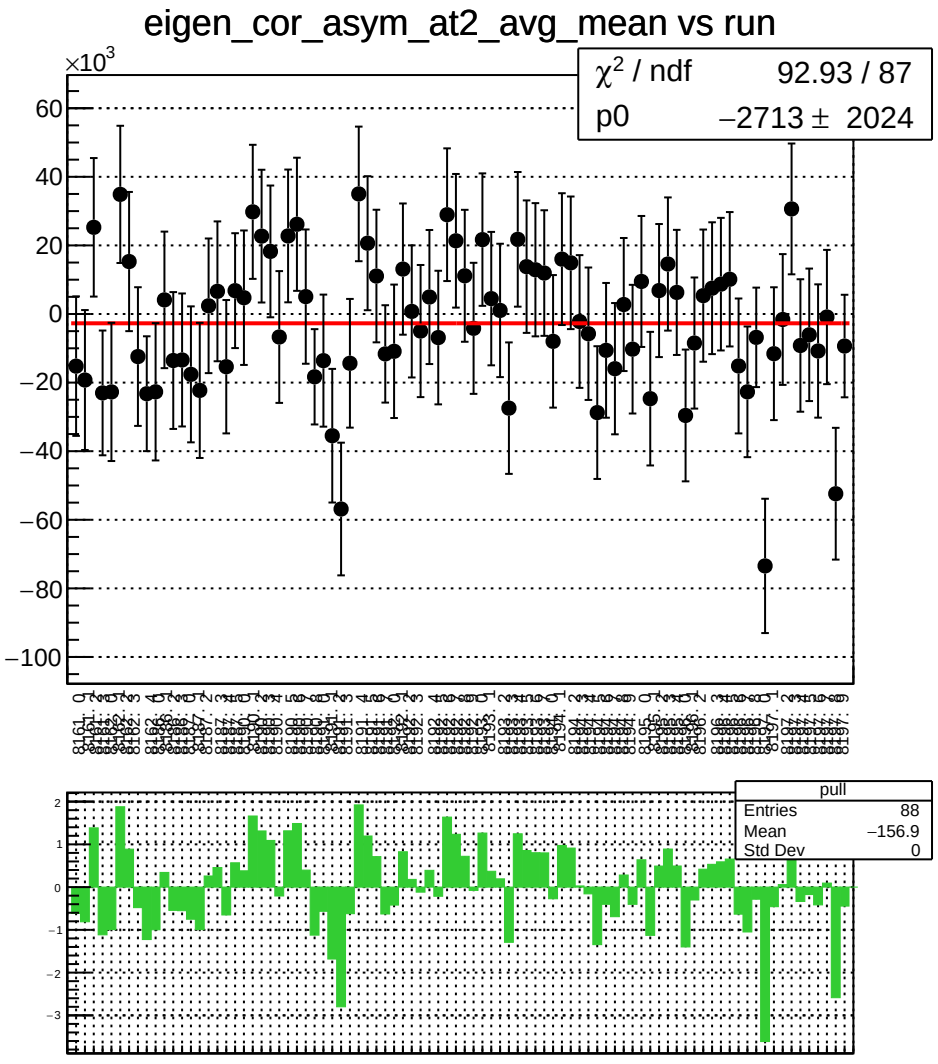

pull1D
Entries 88
Mean 0.01179
Std Dev 1.028

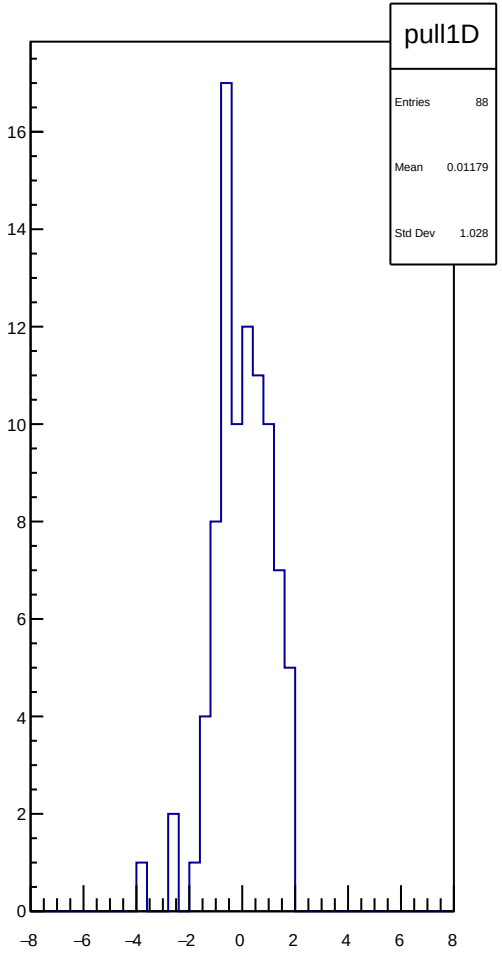

cor_asym_at2_avg_rms vs run
χ² / ndf 587.1 / 87
p0 1847 ± 1.431
1950
1900
1850
1800
1750

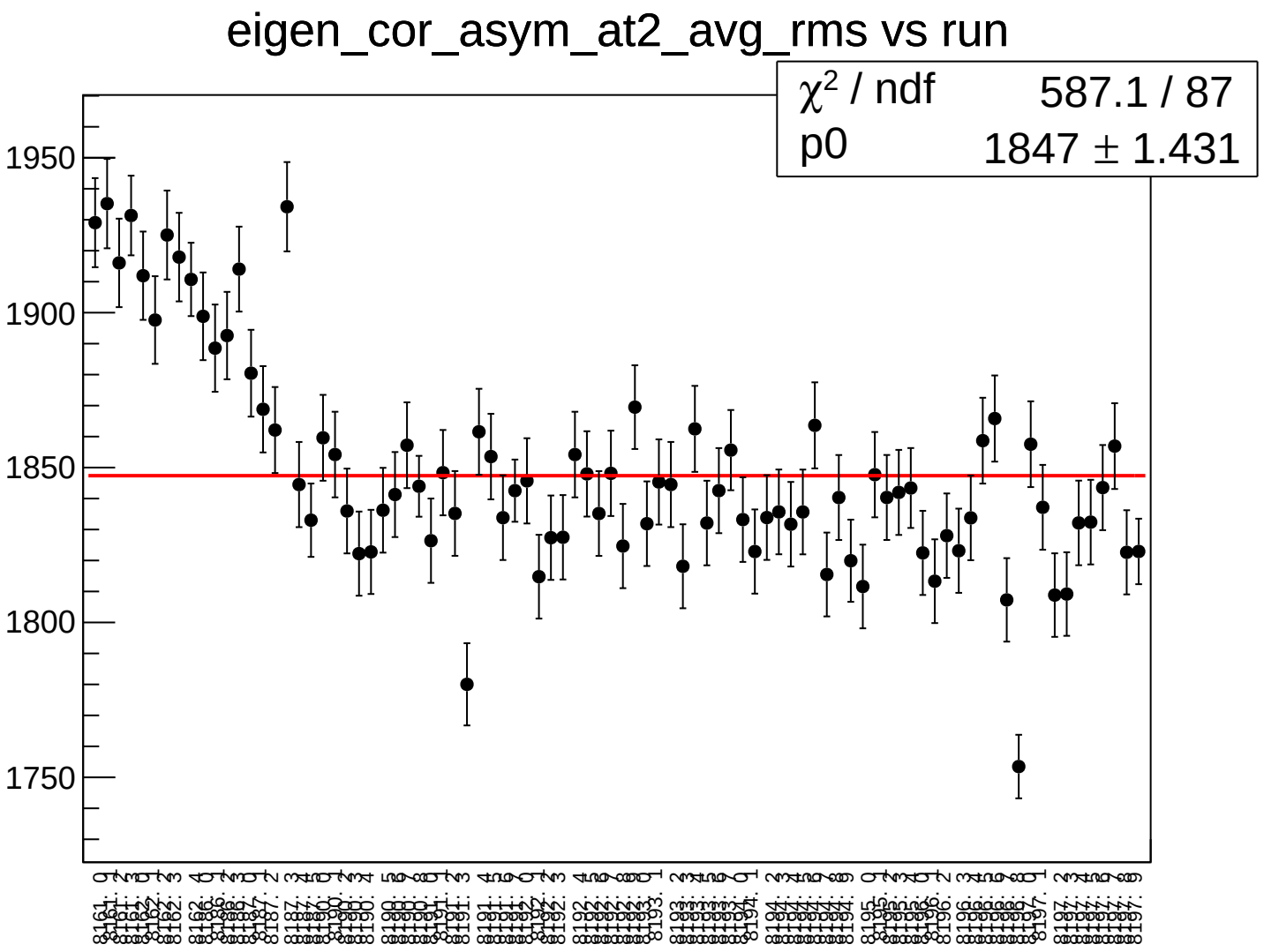

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.96 / 87
p0 2975 ± 1.354e+04
400
200
0
−200
−400
pull
Entries 88
Mean −366
Std Dev 0
2
1
0
−1
−2

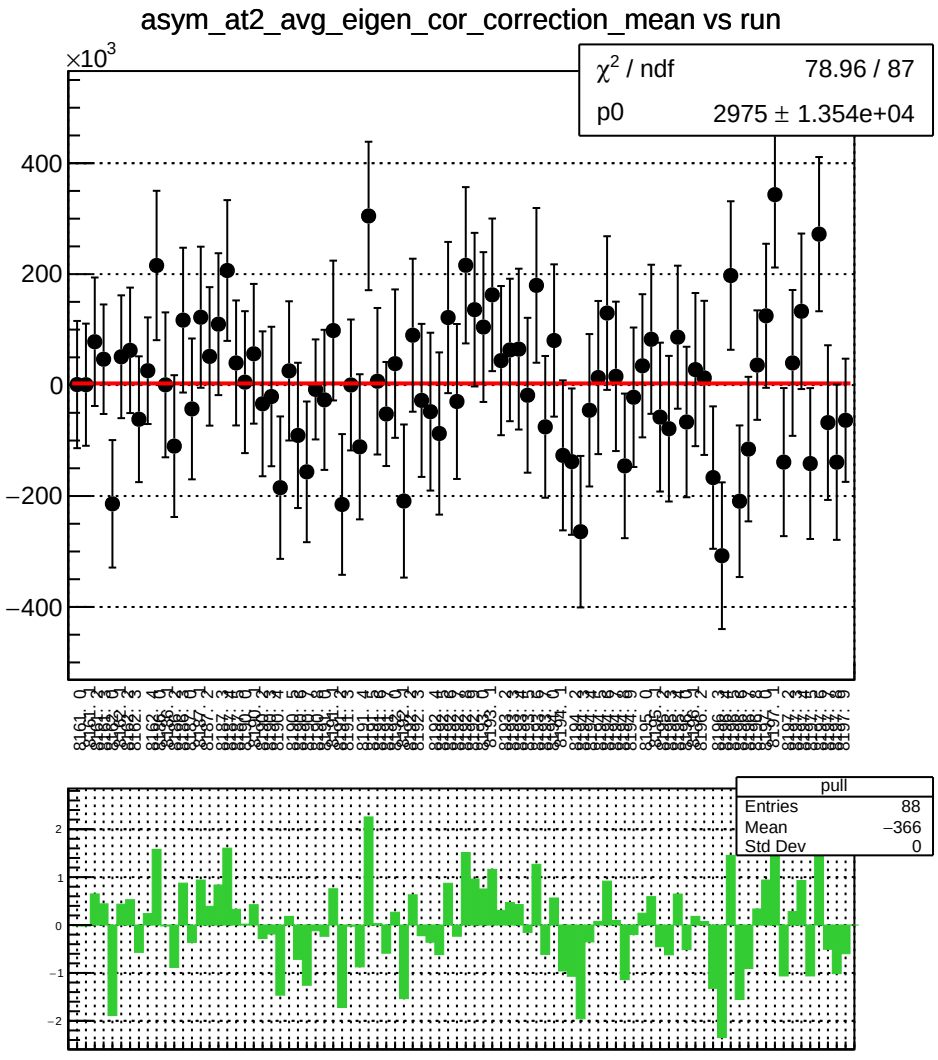

pull1D
Entries 88
Mean 0.004339
Std Dev 0.9472
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

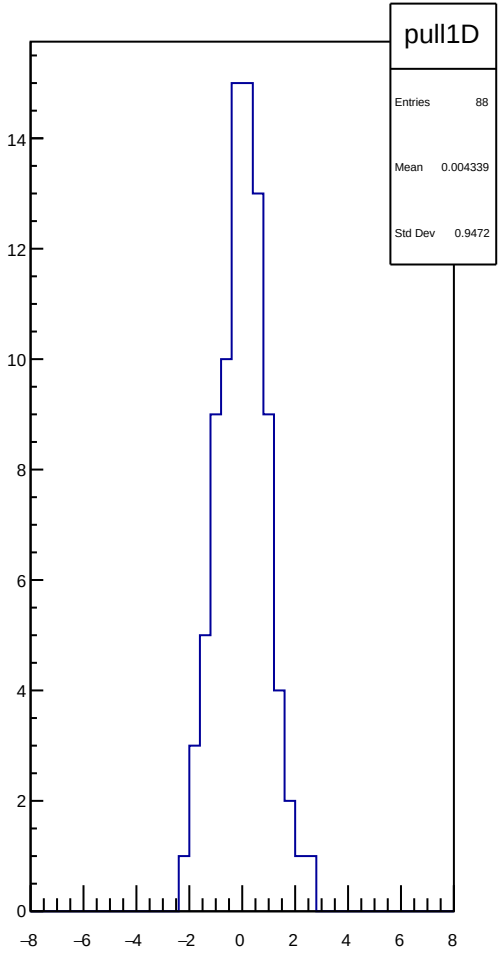

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 7197 / 87
p0 1.234e+04 ± 9.575
14000
13500
13000
12500
12000
11500
11000
10500

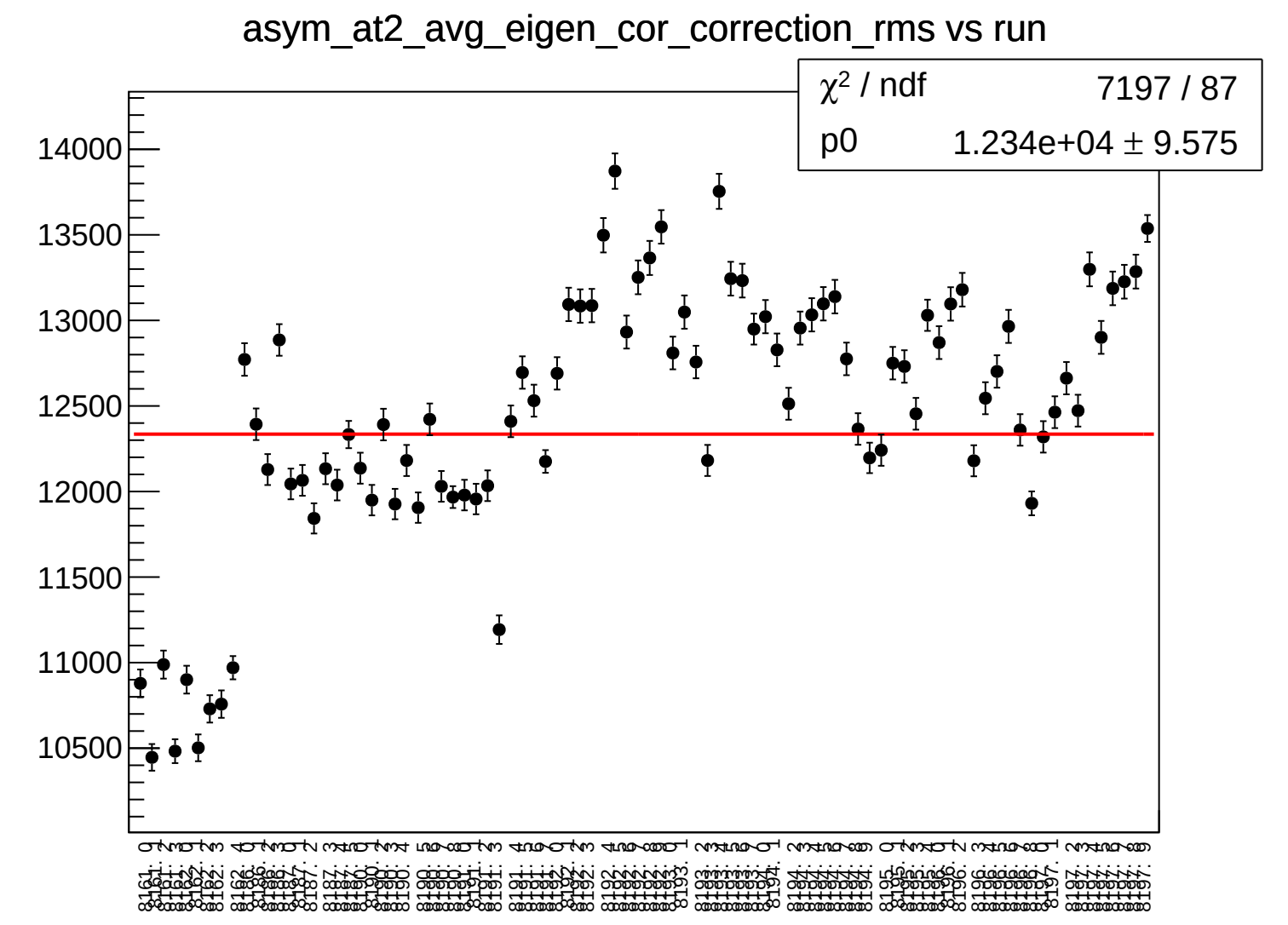

eigen_cor_asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.93 / 87
p0 −2713 ± 2024
pull
Entries 88
Mean −156.9
Std Dev 0

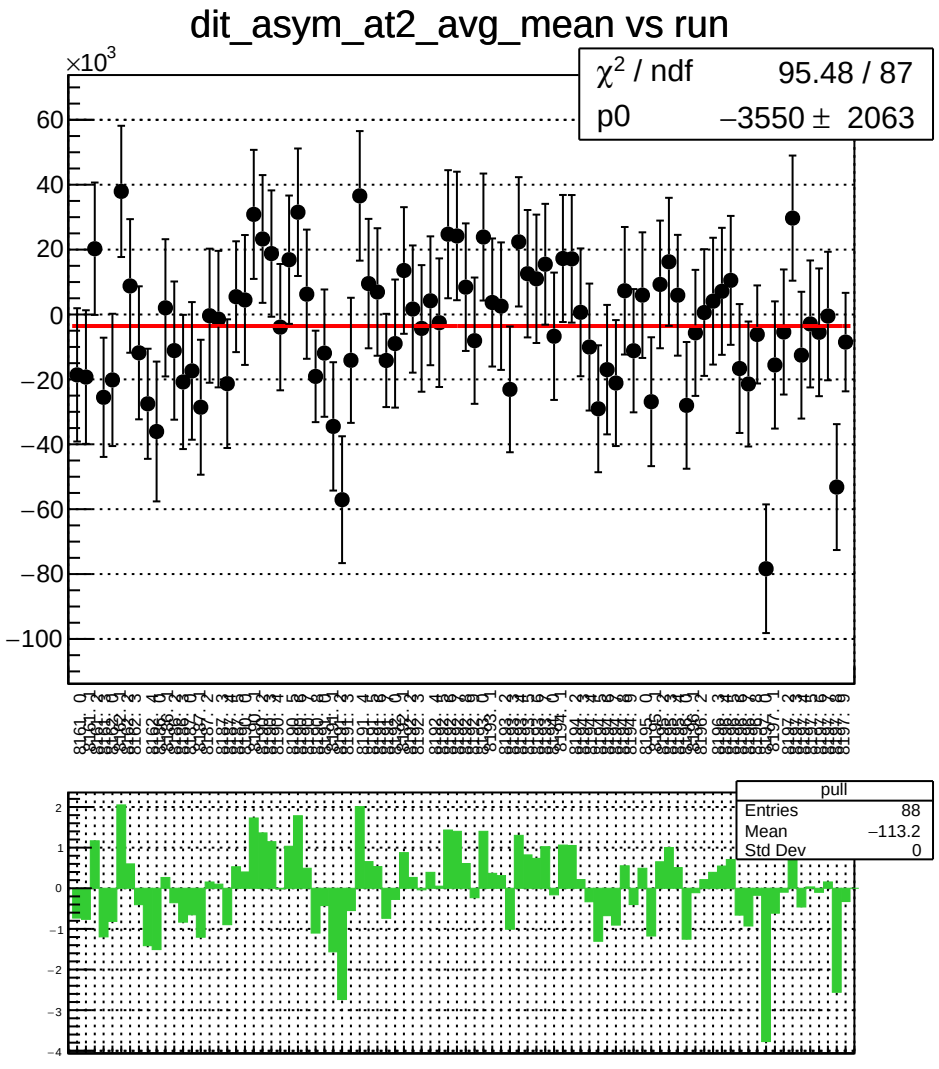

pull1D
Entries 88
Mean 0.01179
Std Dev 1.028

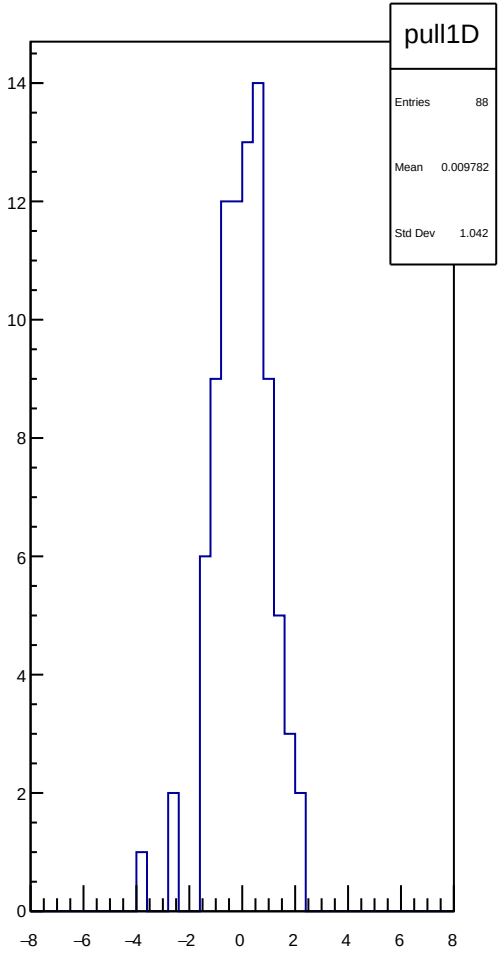

eigen_cor_asym_at2_avg_rms vs run
χ^2 / ndf 587.1 / 87
p0 1847 ± 1.431
1950
1900
1850
1800
1750

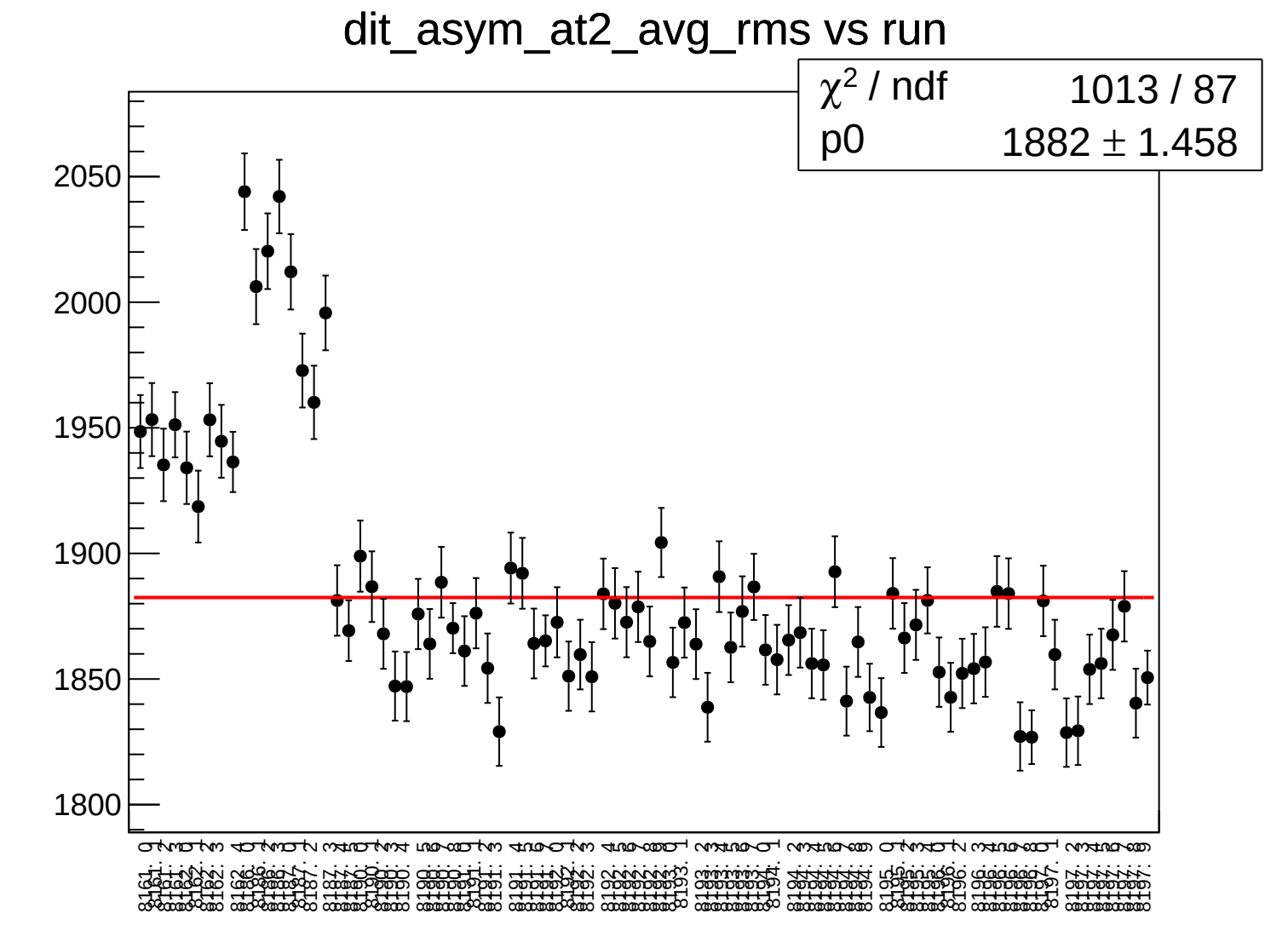

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.96 / 87
p0 2975 ± 1.354e+04
400
200
0
−200
−400
pull
Entries 88
Mean −366
Std Dev 0
2
1
0
−1
−2

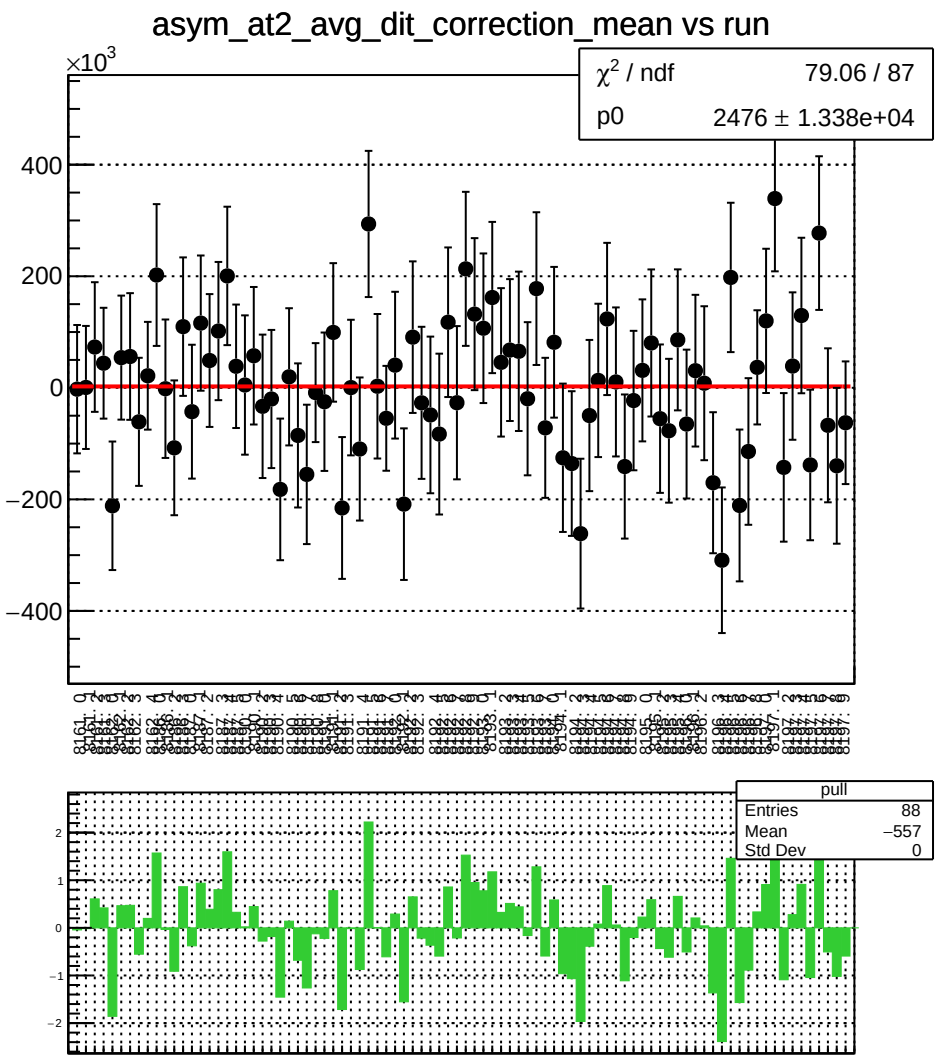

pull1D
Entries 88
Mean 0.004339
Std Dev 0.9472
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

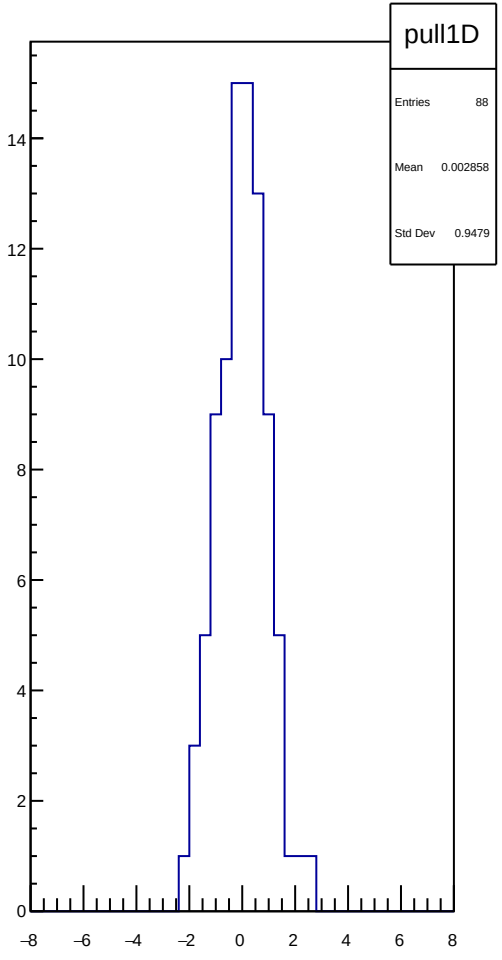

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 7197 / 87
p0 1.234e+04 ± 9.575
14000
13500
13000
12500
12000
11500
11000
10500

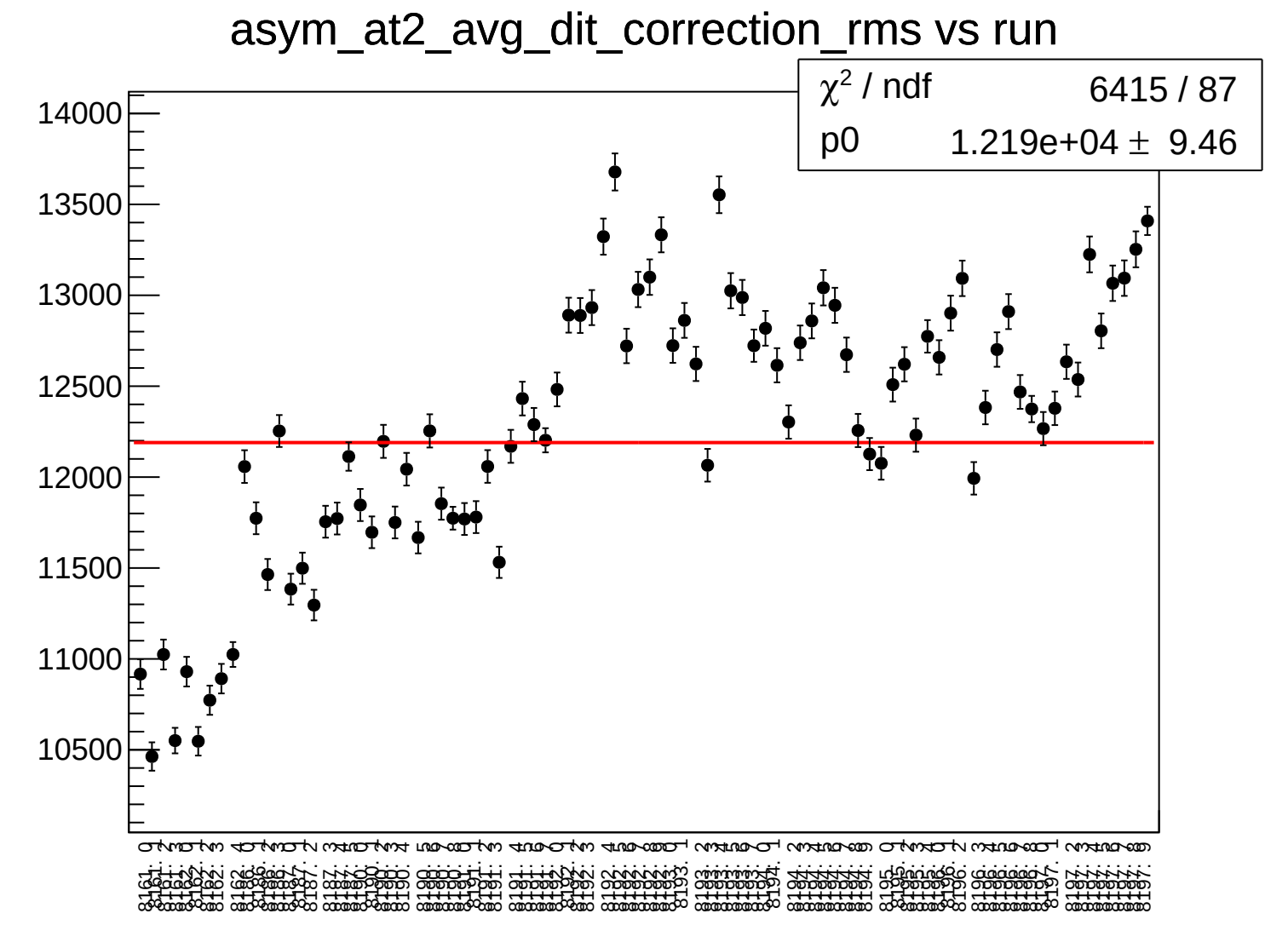

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 95.48 / 87
p0 −3550 ± 2063
pull
Entries 88
Mean −113.2
Std Dev 0

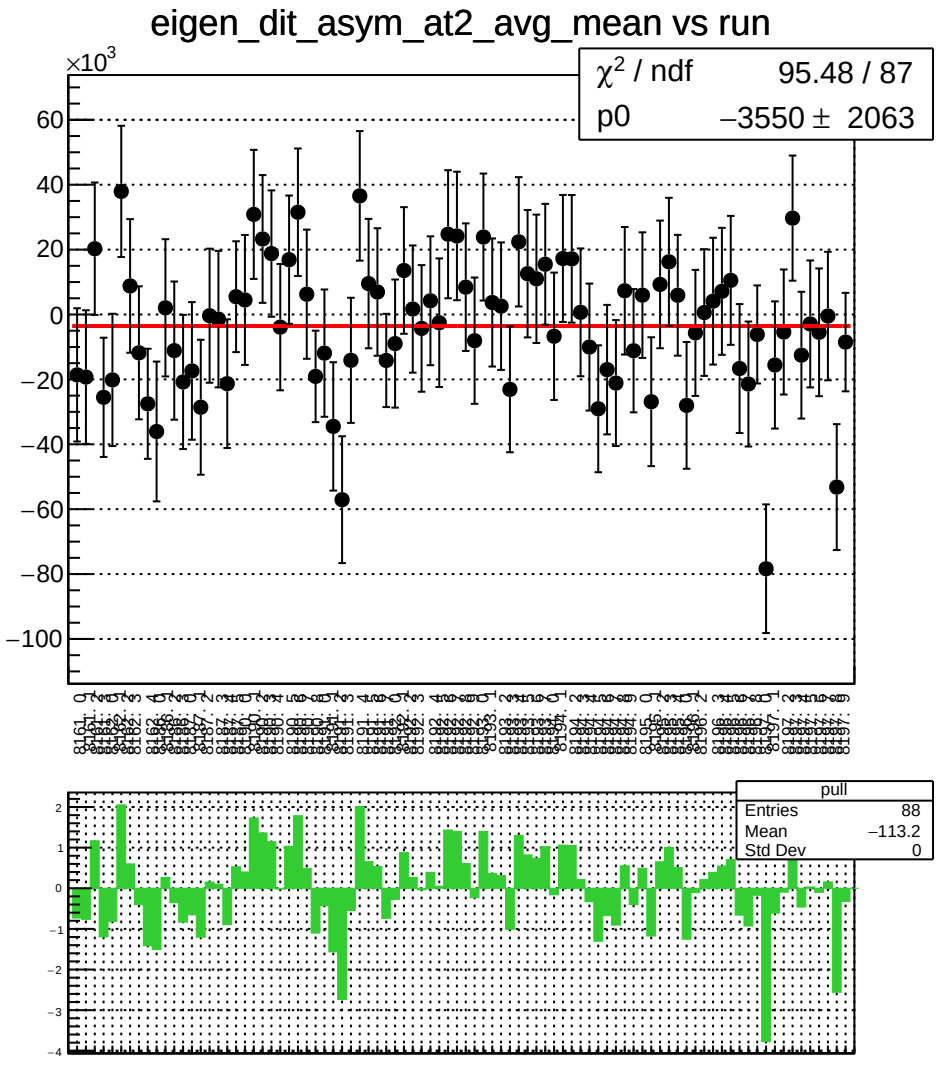

pull1D
Entries 88
Mean 0.009782
Std Dev 1.042

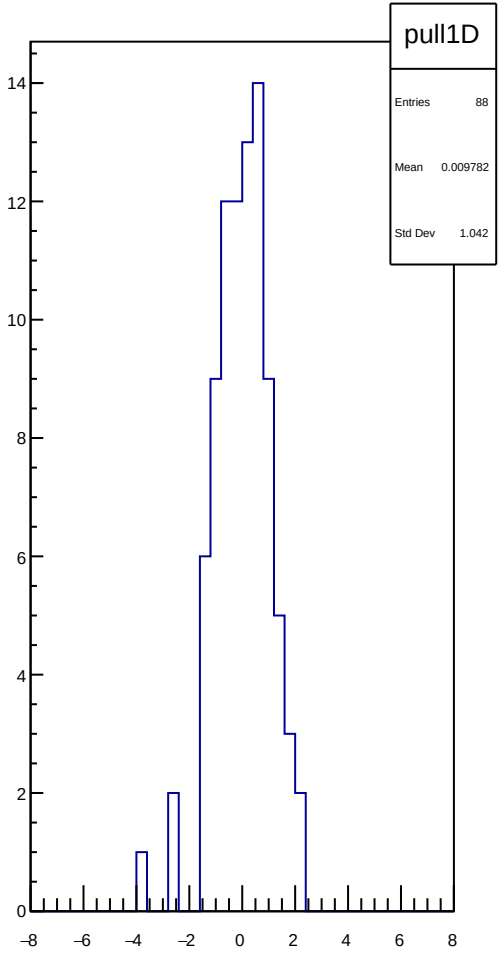

dit_asym_at2_avg_rms vs run
χ² / ndf 1013 / 87
p0 1882 ± 1.458
2050
2000
1950
1900
1850
1800

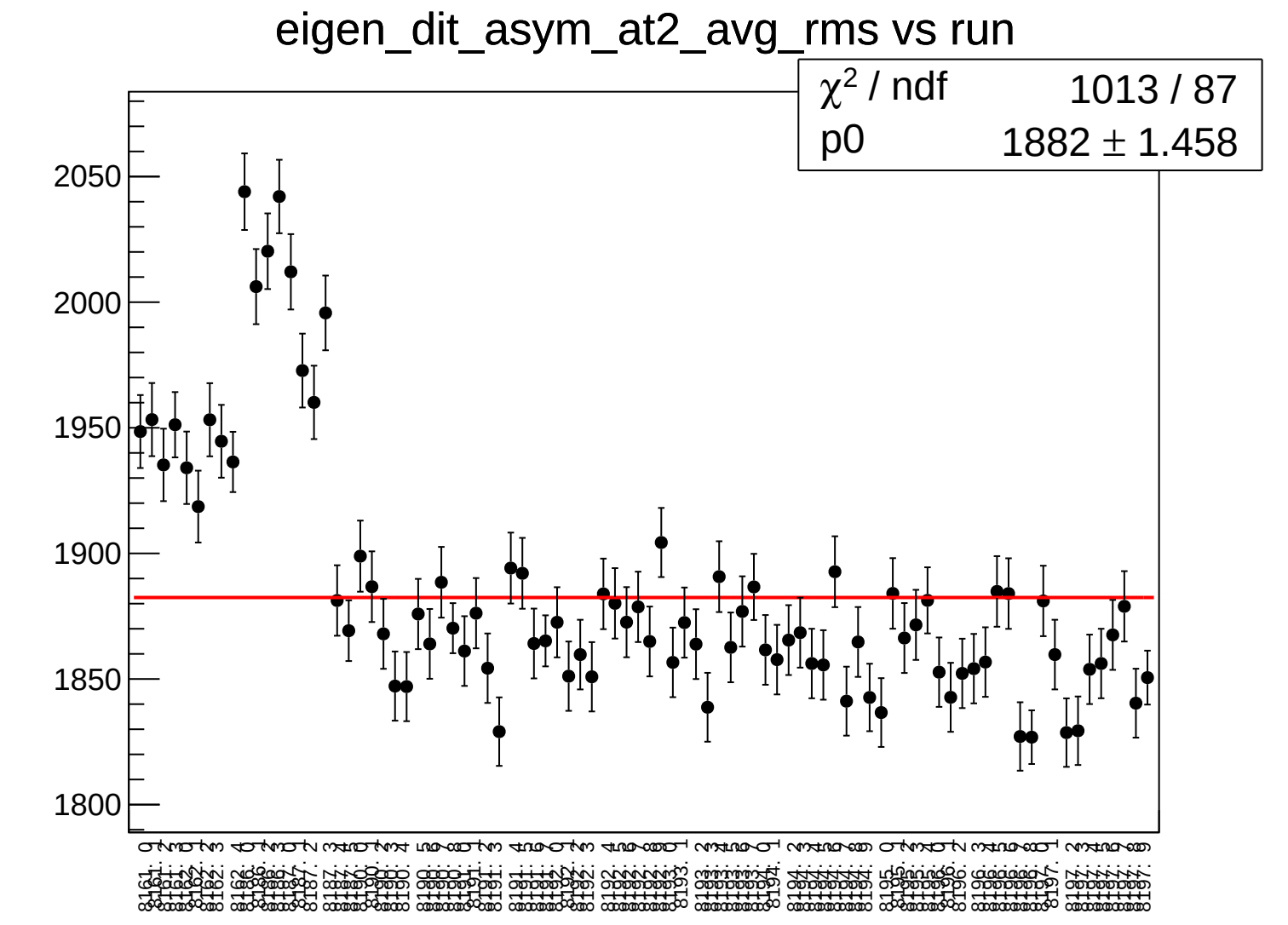

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.06 / 87
p0 2476 ± 1.338e+04
400
200
0
−200
−400
pull
Entries 88
Mean −557
Std Dev 0
2
1
0
−1
−2

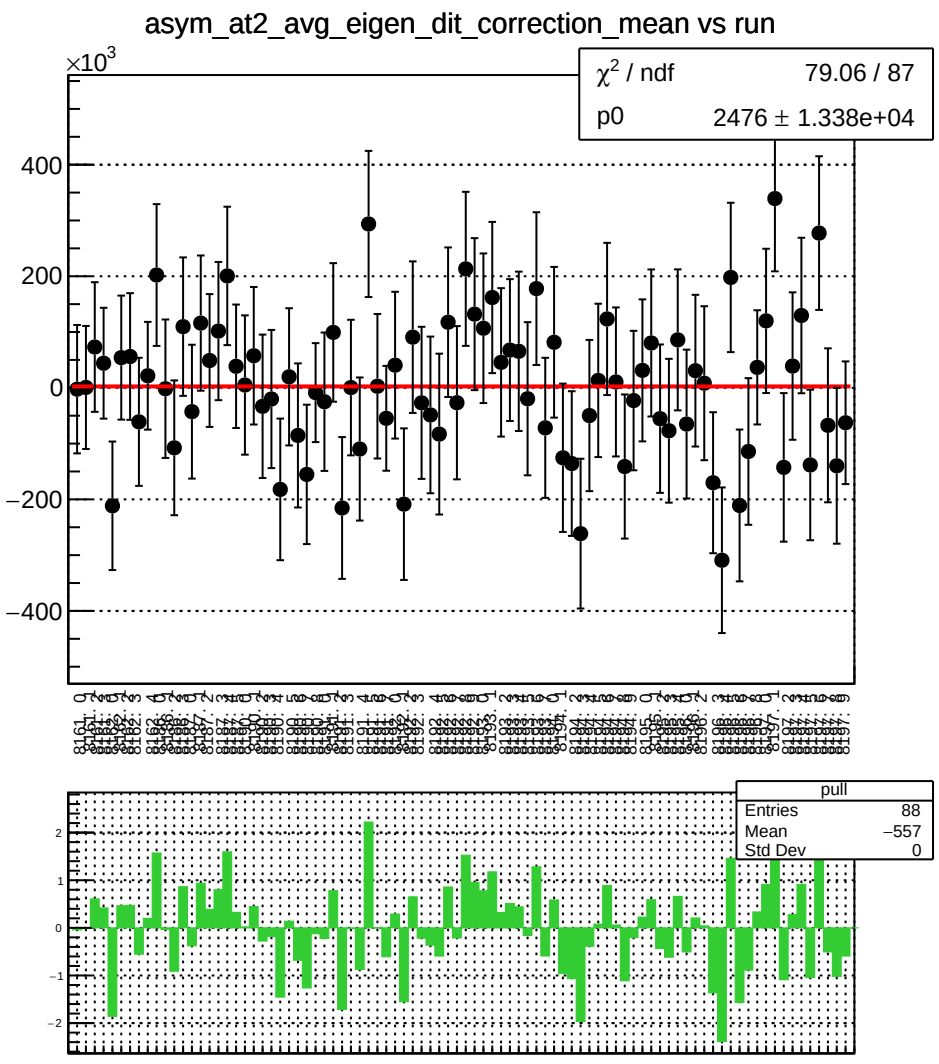

pull1D
Entries 88
Mean 0.002858
Std Dev 0.9479
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

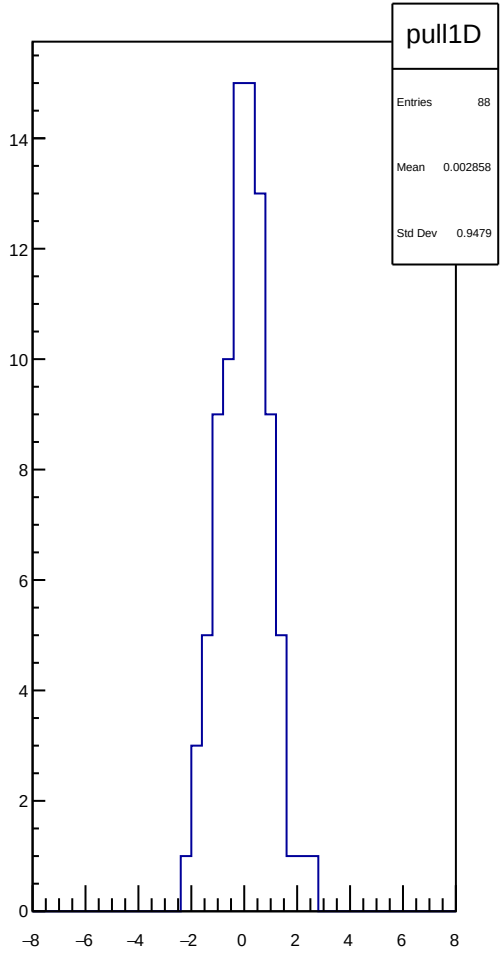

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 6415 / 87
p0 1.219e+04 ± 9.46
14000
13500
13000
12500
12000
11500
11000
10500

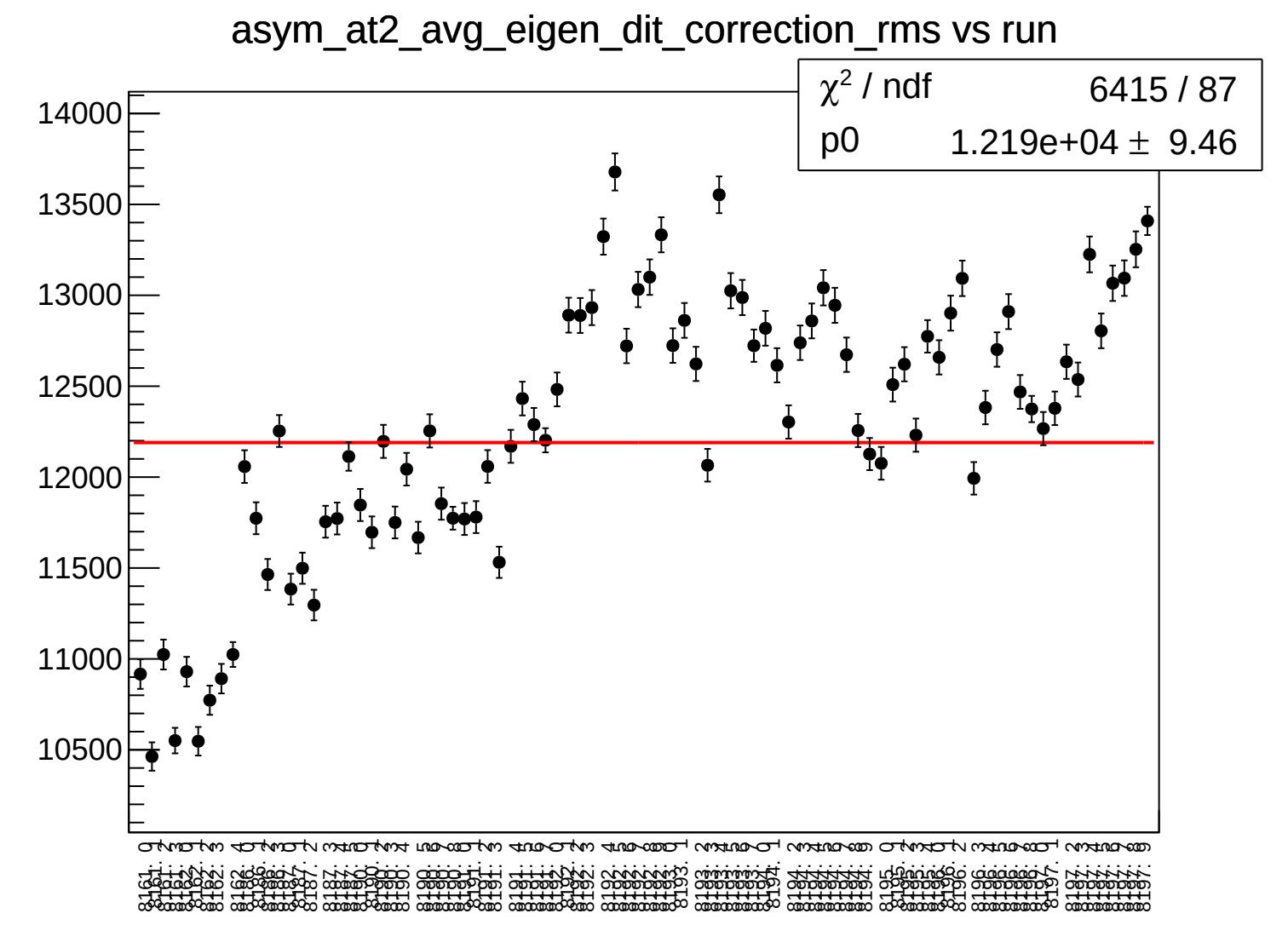

eigen_dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 95.48 / 87
p0 −3550 ± 2063
pull
Entries 88
Mean −113.2
Std Dev 0

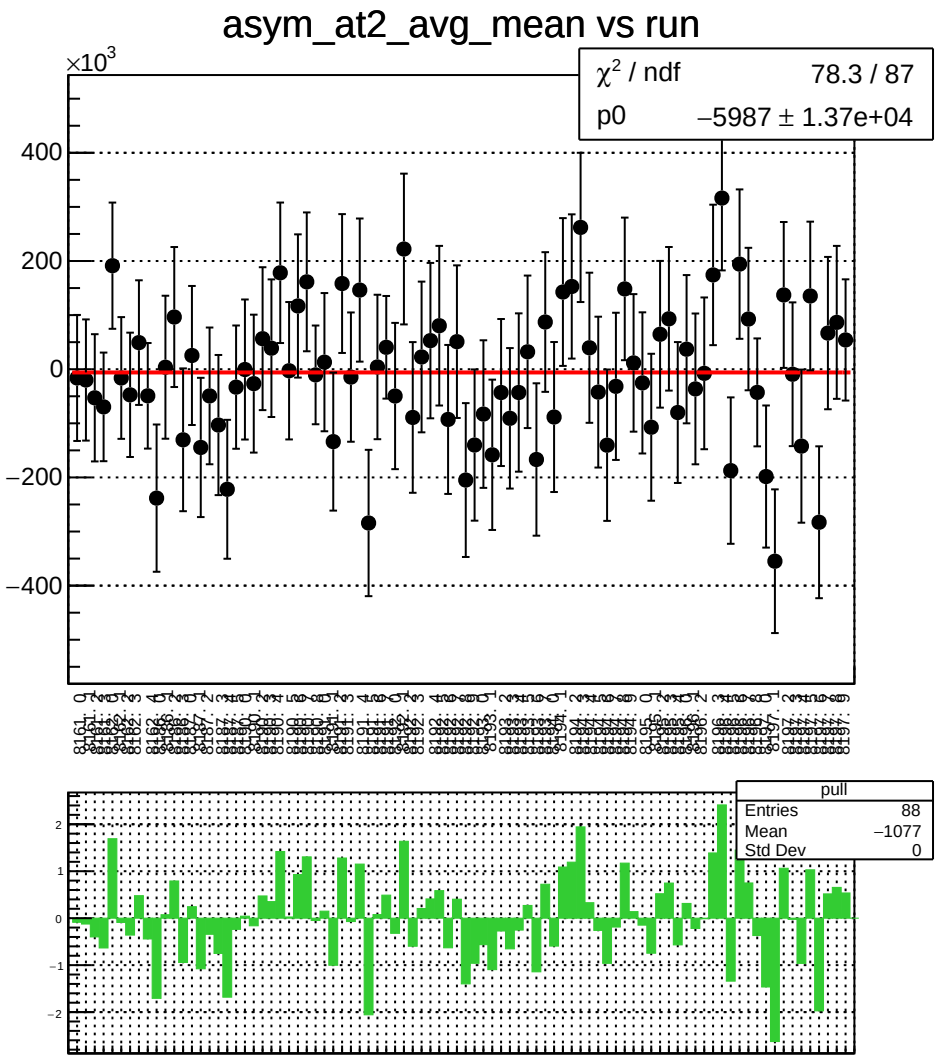

pull1D
Entries 88
Mean 0.009782
Std Dev 1.042

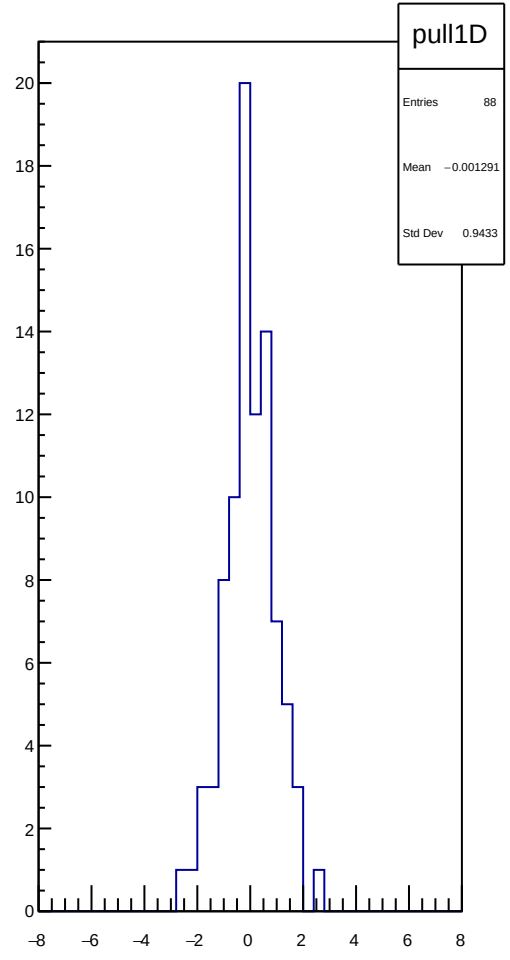

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1013 / 87
p0 1882 ± 1.458
2050
2000
1950
1900
1850
1800

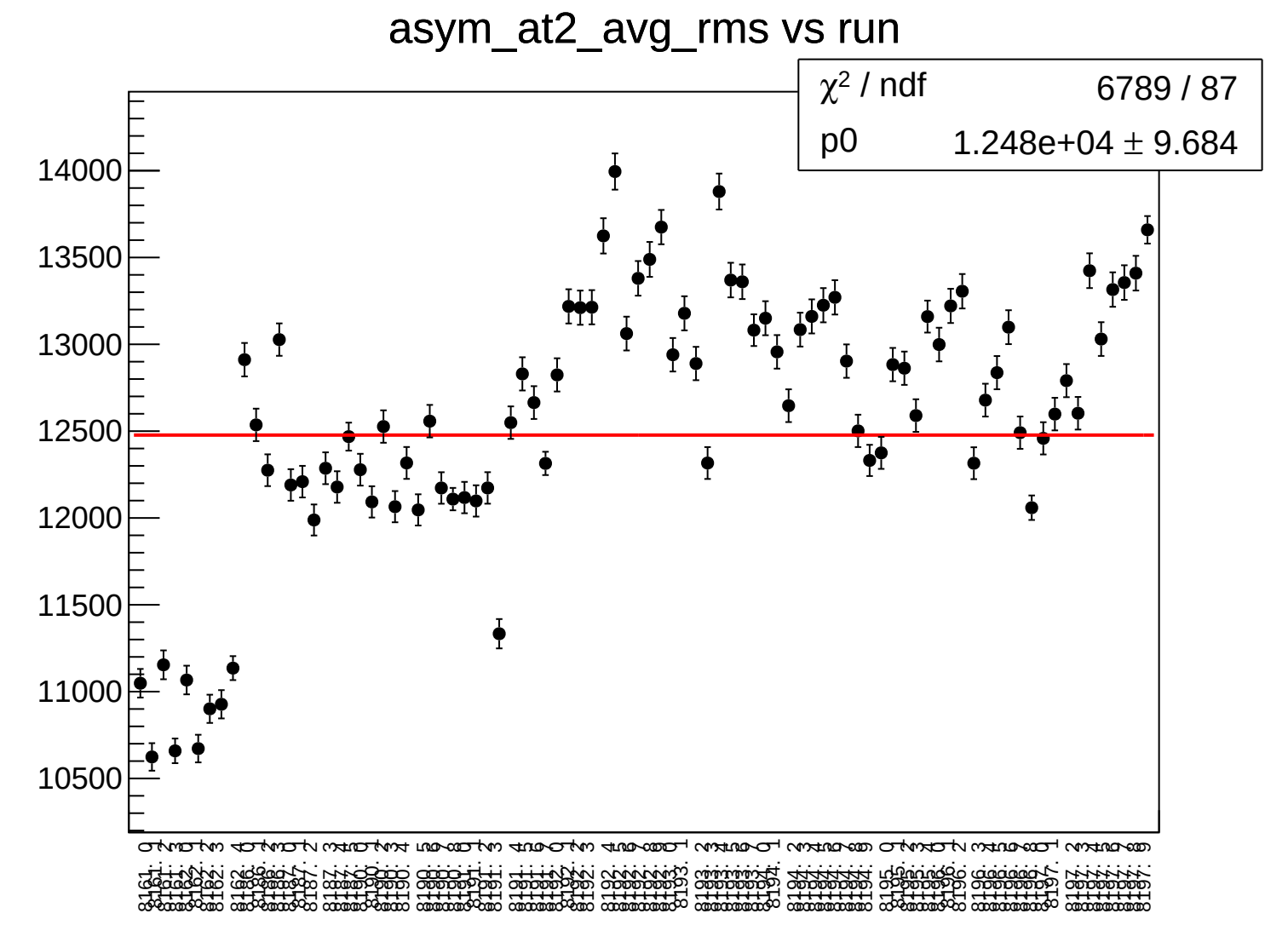

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.06 / 87
p0 2476 ± 1.338e+04
400
200
0
−200
−400
pull
Entries 88
Mean −557
Std Dev 0
2
1
0
−1
−2

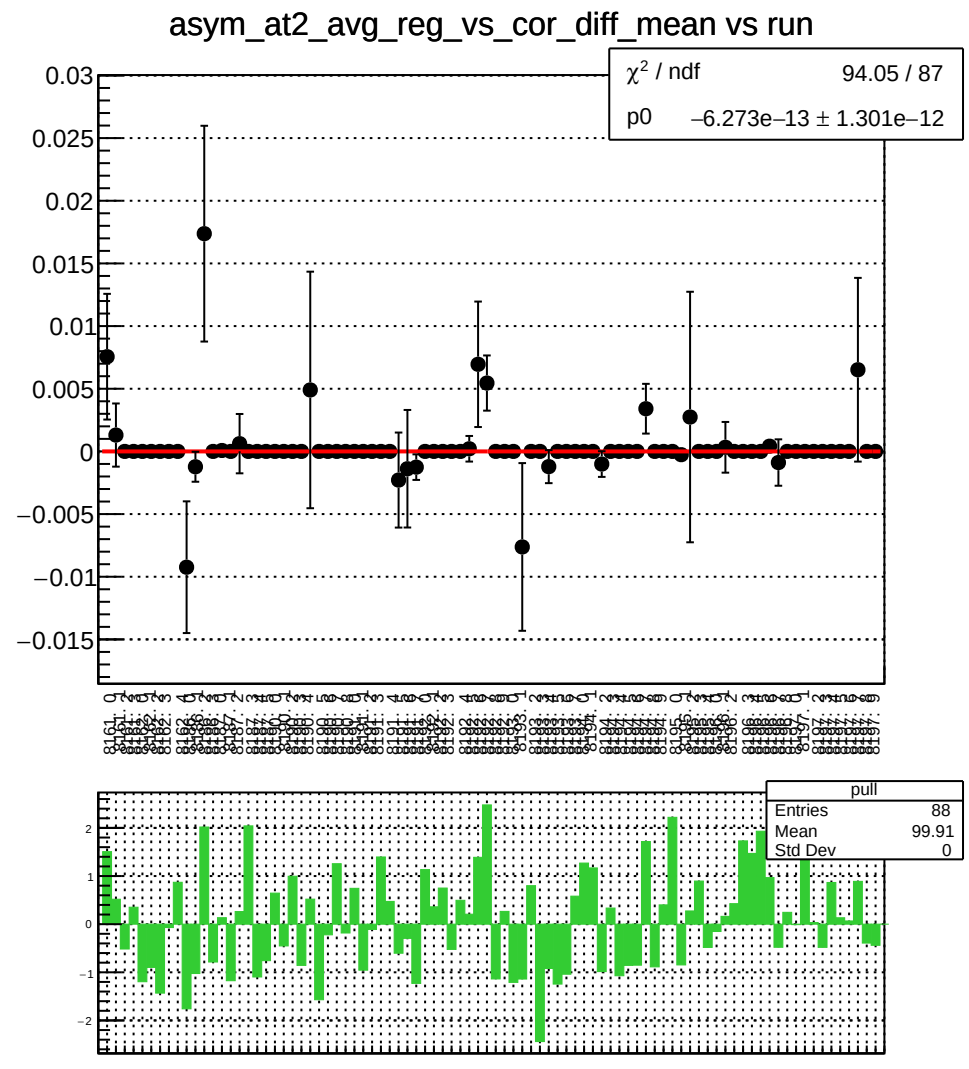

pull1D
Entries 88
Mean 0.002858
Std Dev 0.9479
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

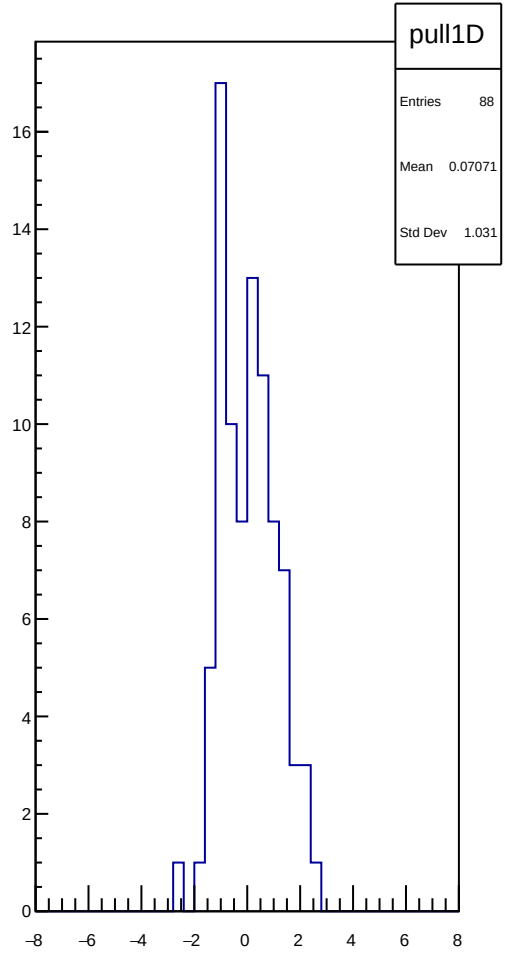

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6415 / 87
p0 1.219e+04 ± 9.46
14000
13500
13000
12500
12000
11500
11000
10500

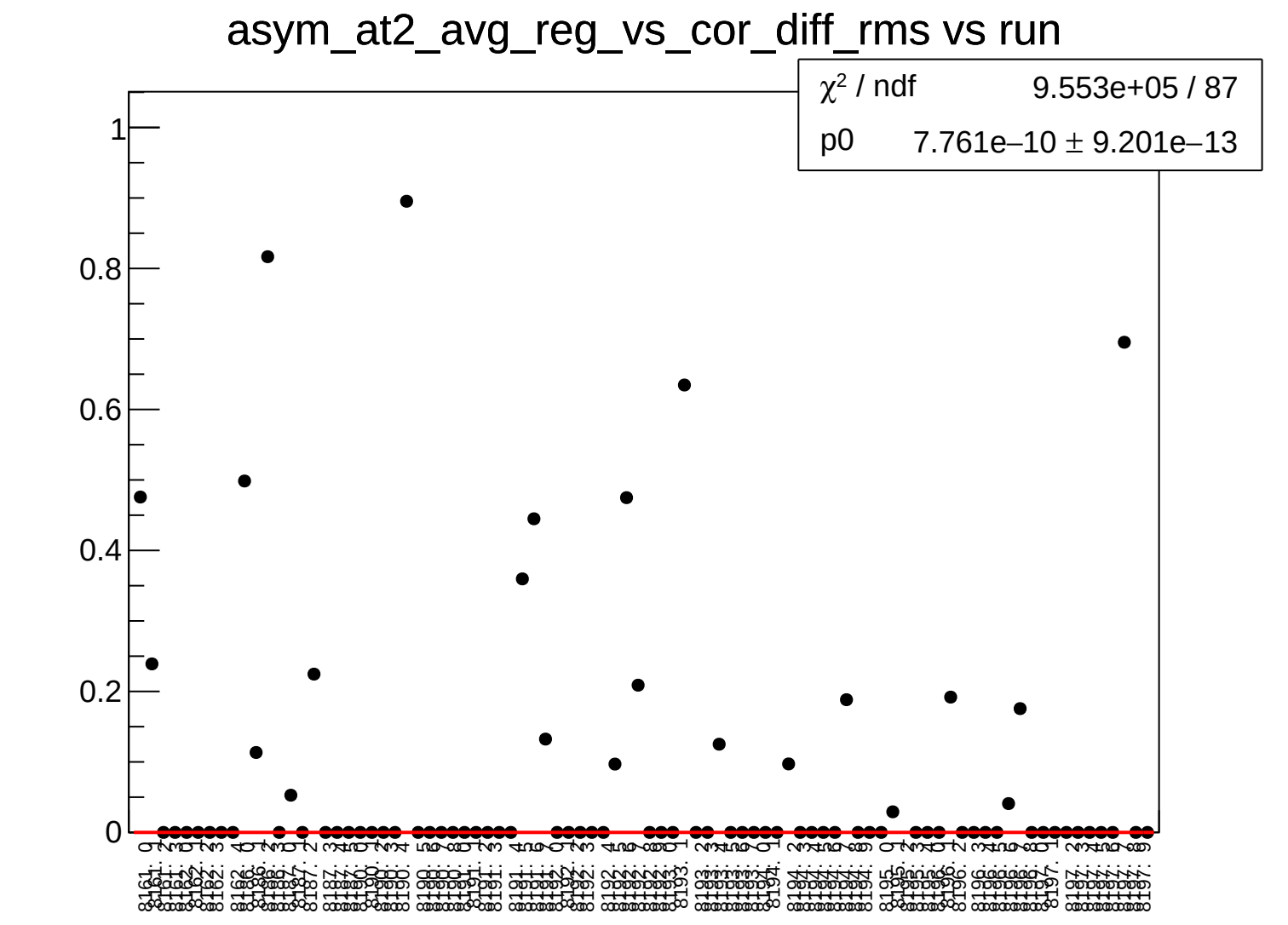

asym_at2_avg_mean vs run
×10^3
χ² / ndf 78.3 / 87
p0 −5987 ± 1.37e+04
400
200
0
−200
−400
pull
Entries 88
Mean −1077
Std Dev 0
2
1
0
−1
−2

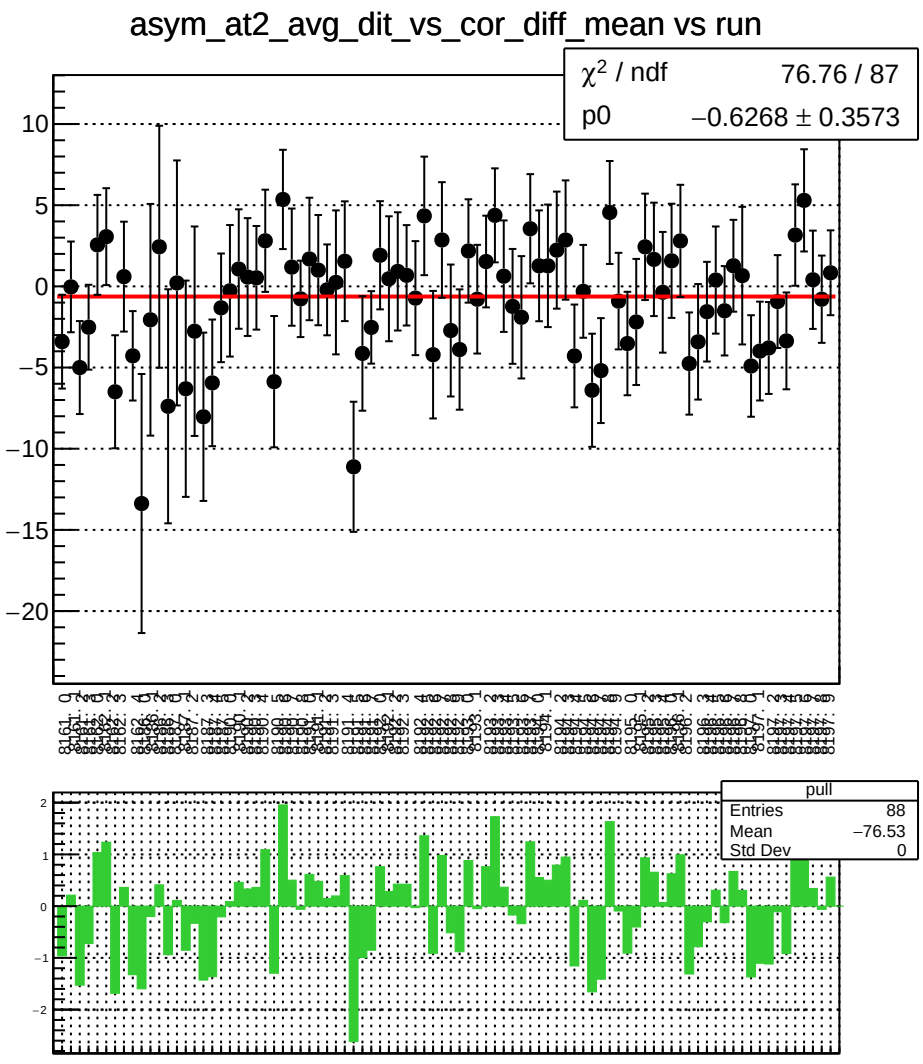

pull1D
Entries 88
Mean −0.001291
Std Dev 0.9433
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

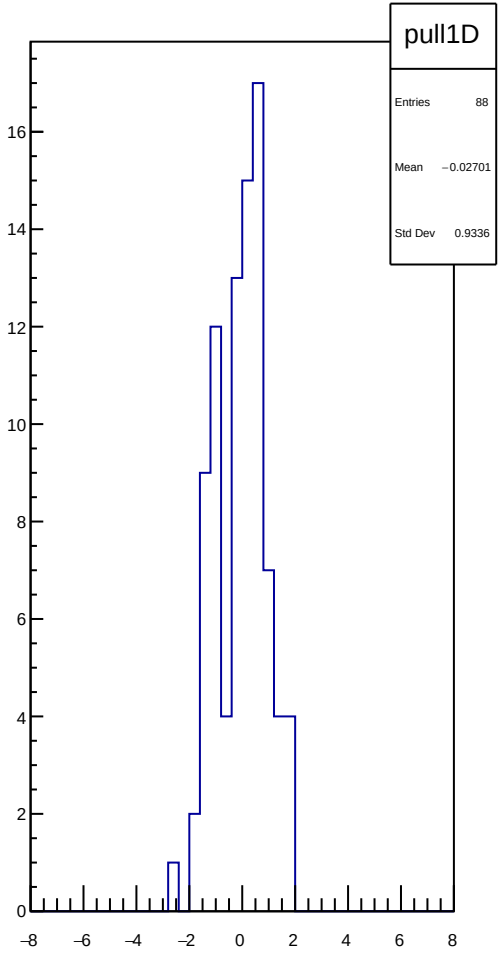

asym_at2_avg_rms vs run
χ² / ndf 6789 / 87
p0 1.248e+04 ± 9.684
14000
13500
13000
12500
12000
11500
11000
10500

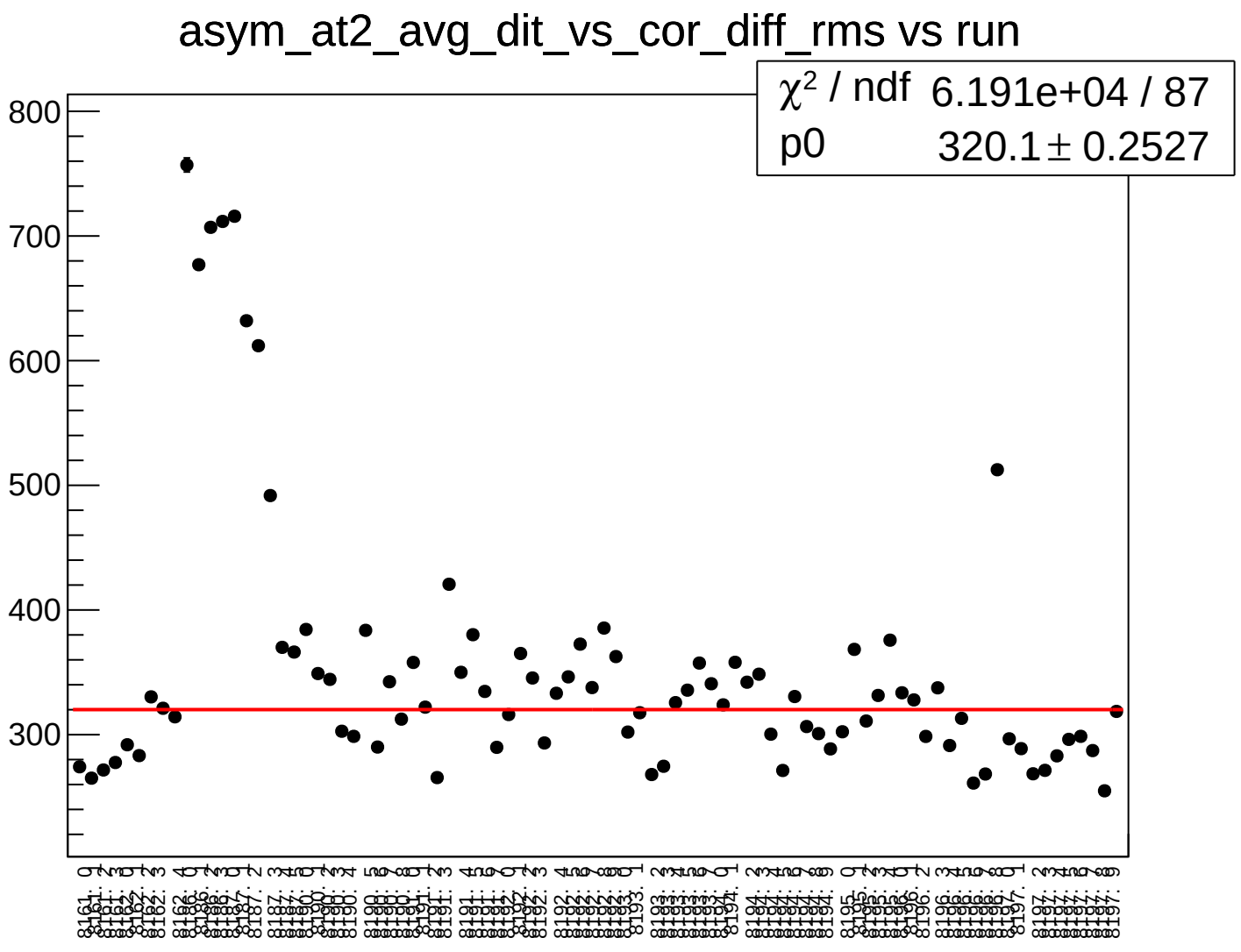

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.05 / 87
p0 −6.273e−13 ± 1.301e−12
pull
Entries 88
Mean 99.91
Std Dev 0

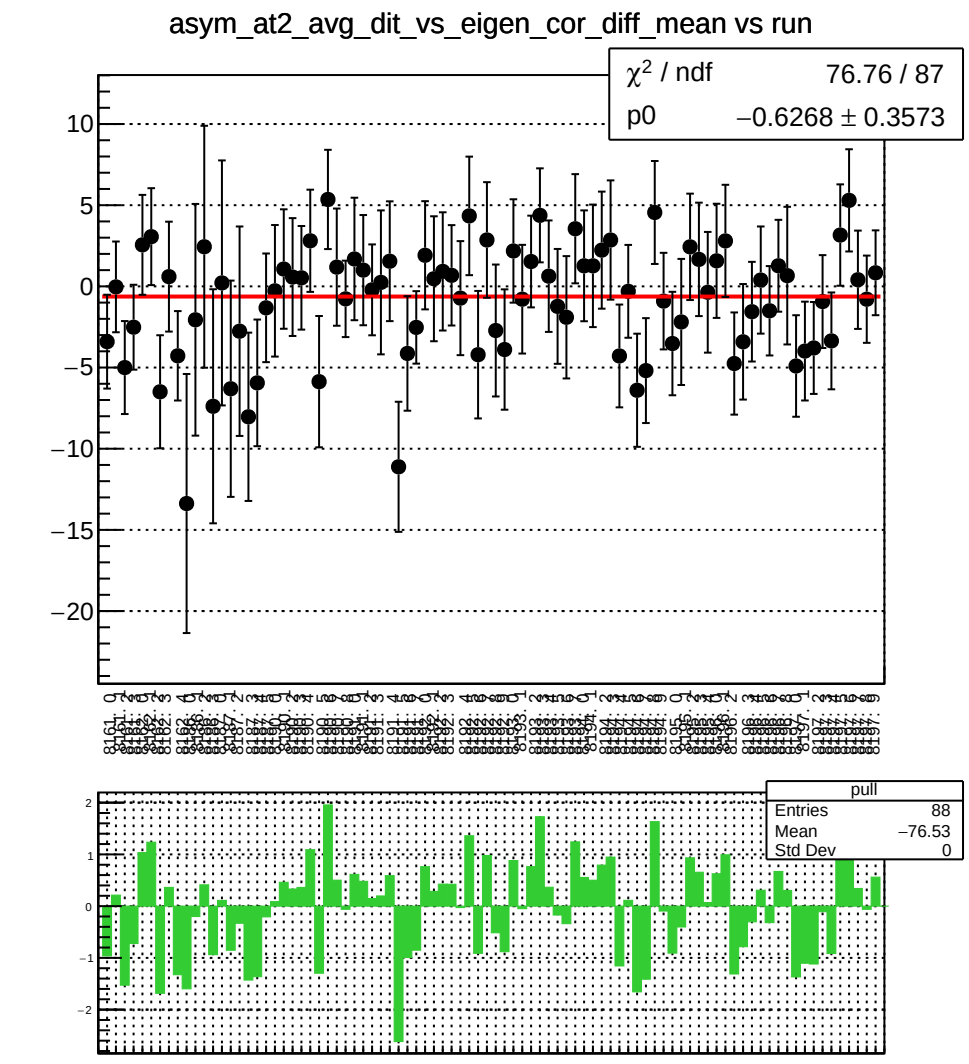

pull1D
Entries 88
Mean 0.07071
Std Dev 1.031

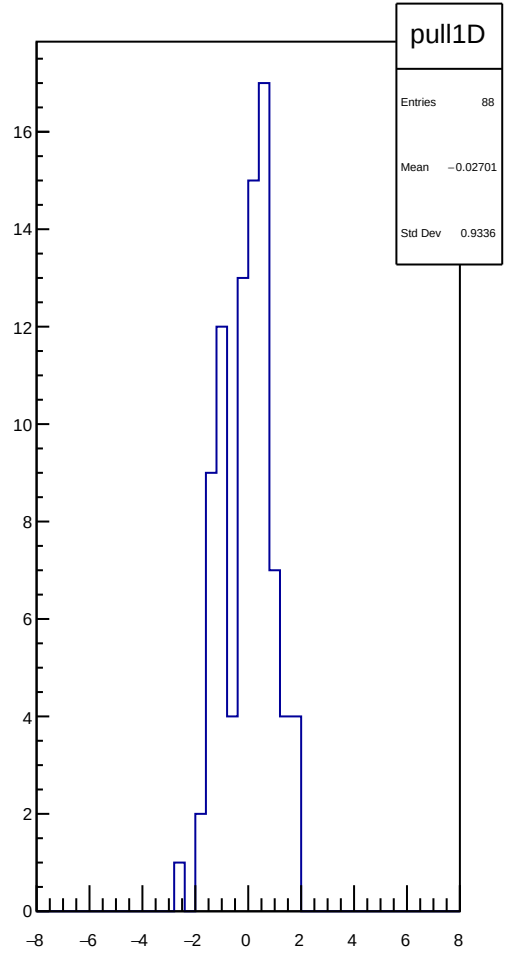

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.553e+05 / 87
p0 7.761e−10 ± 9.201e−13
1
0.8
0.6
0.4
0.2
0

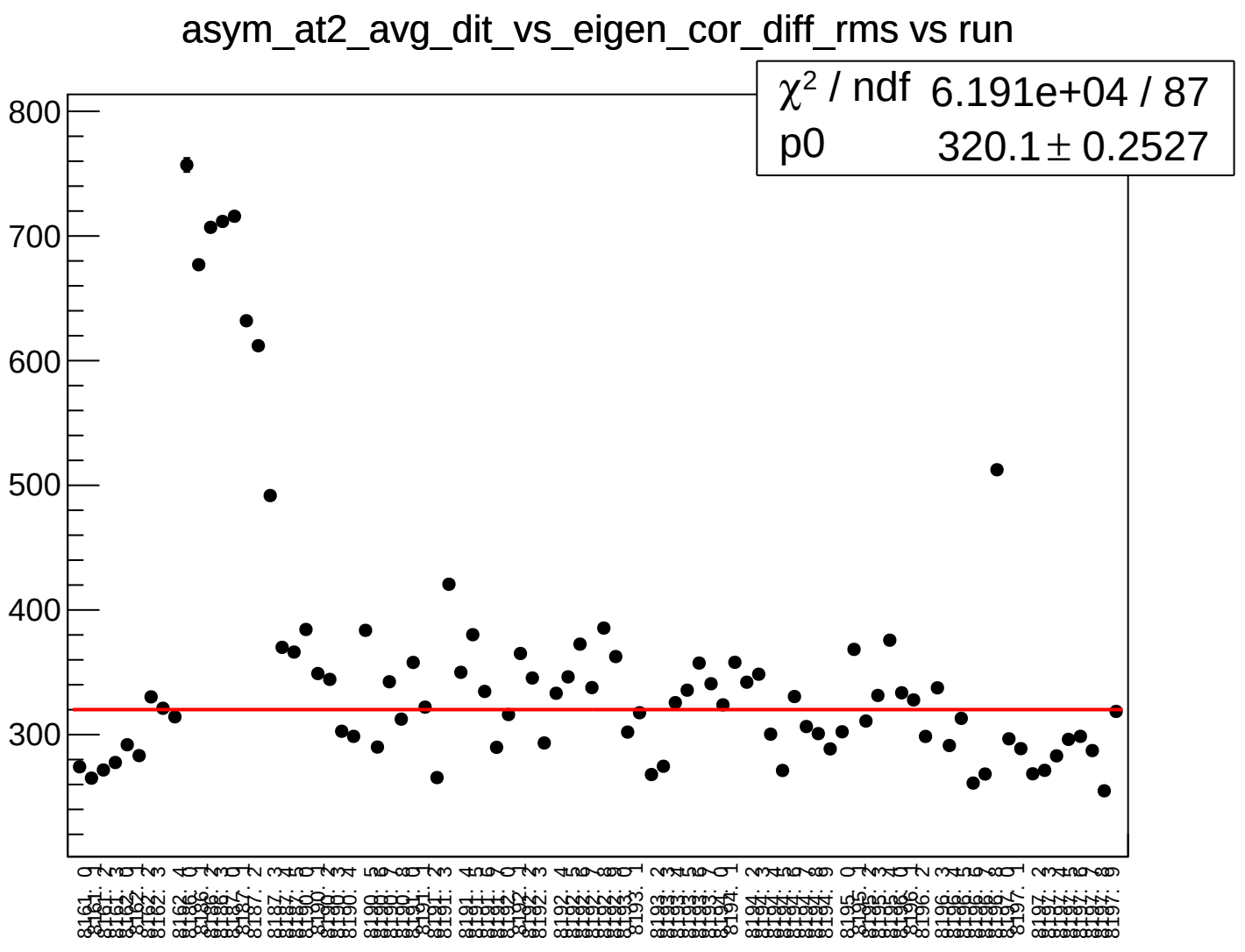

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.76 / 87
p0 −0.6268 ± 0.3573
pull
Entries 88
Mean −76.53
Std Dev 0

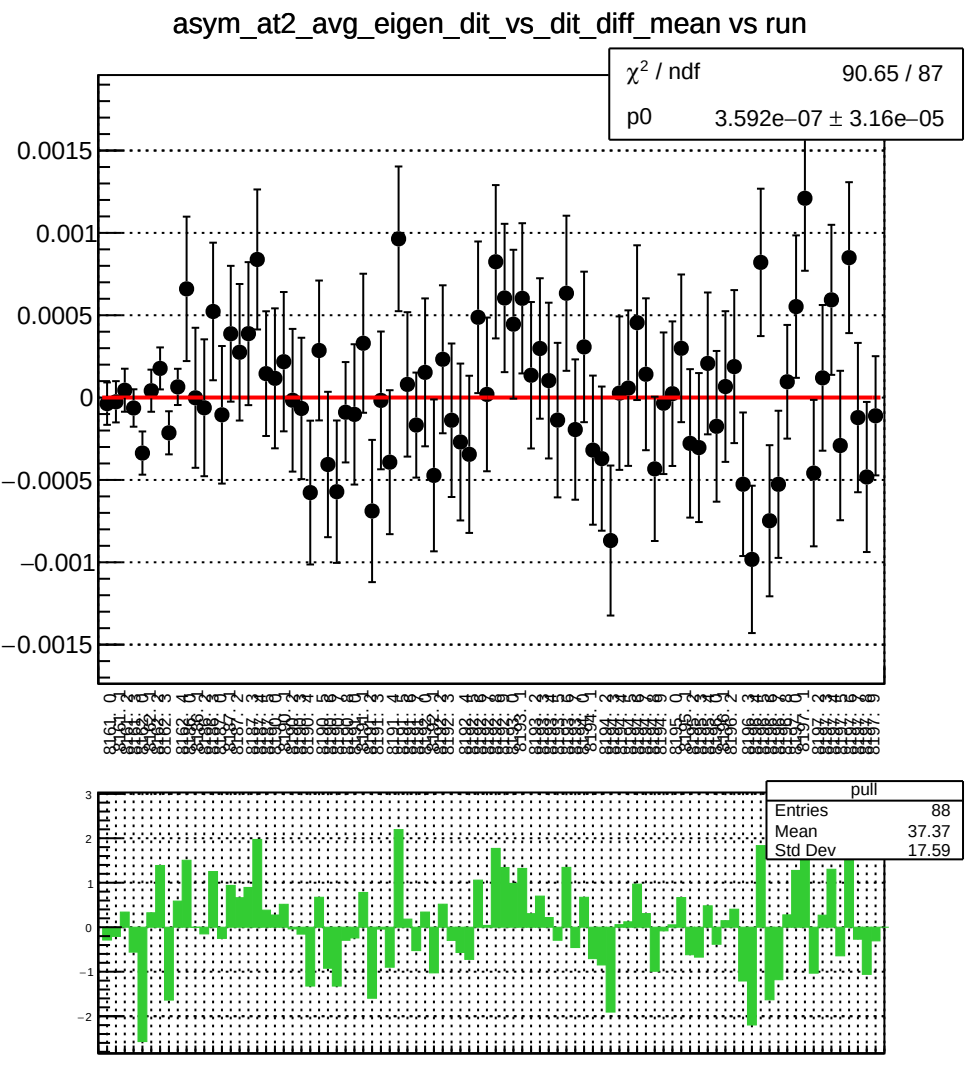

pull1D
Entries 88
Mean −0.02701
Std Dev 0.9336

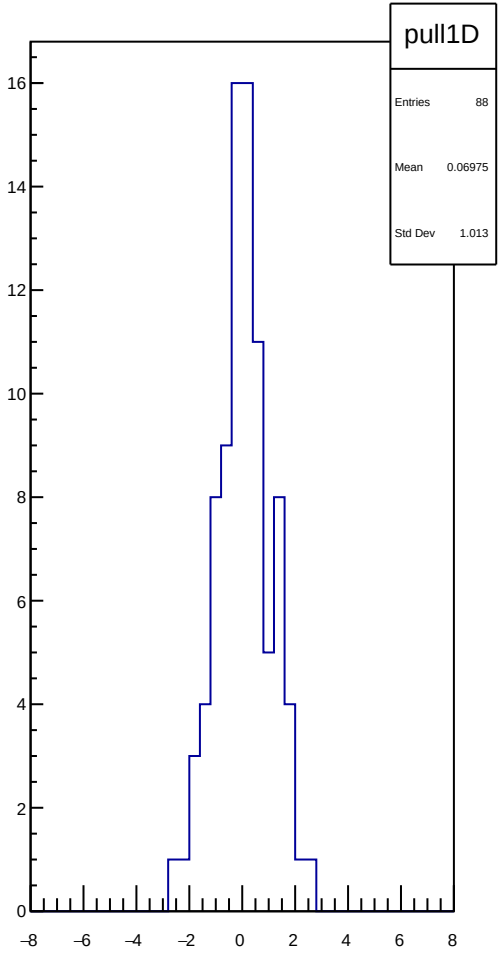

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.191e+04 / 87
p0 320.1 ± 0.2527
800
700
600
500
400
300

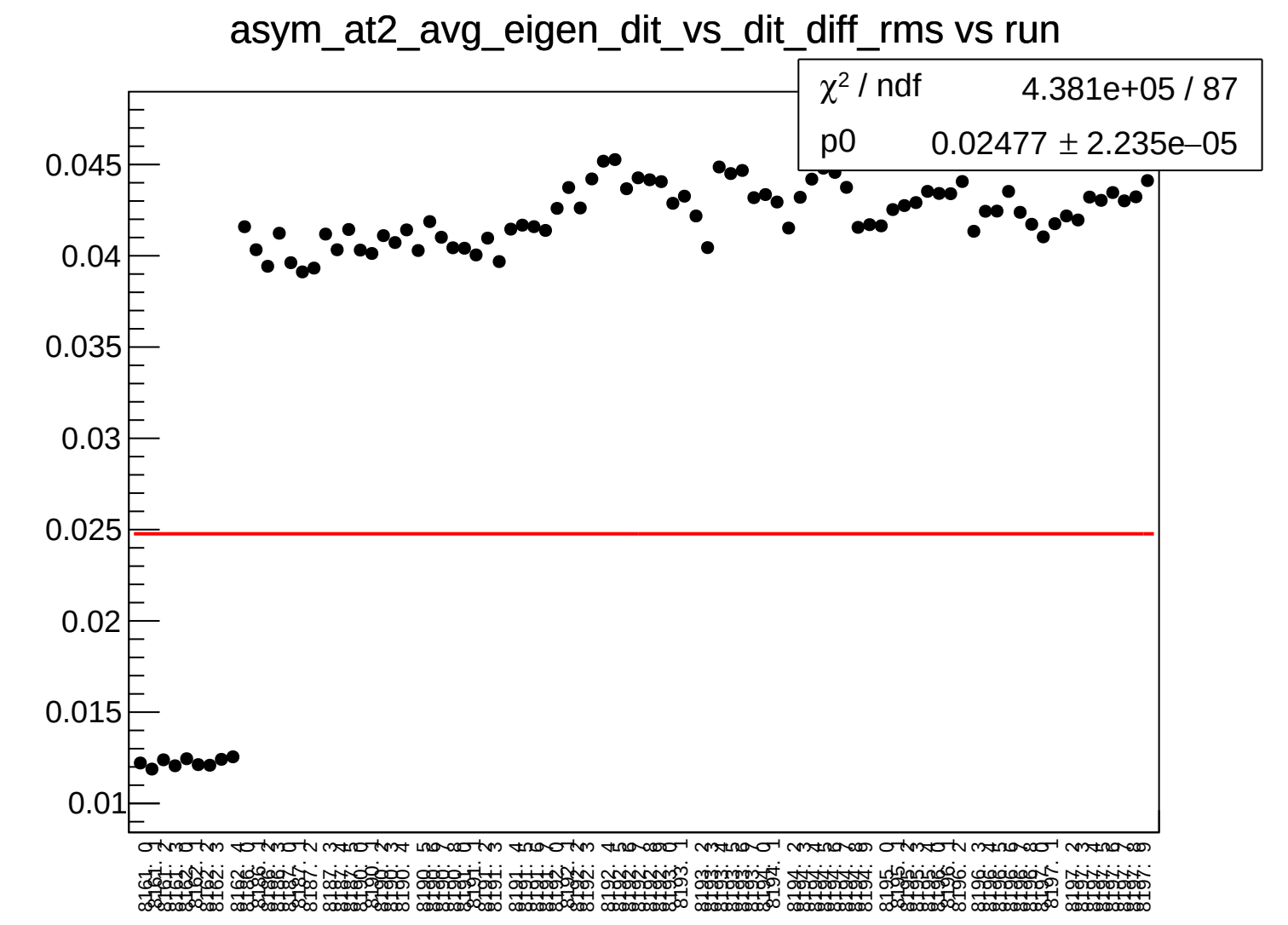

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.76 / 87
p0 −0.6268 ± 0.3573
pull
Entries 88
Mean −76.53
Std Dev 0

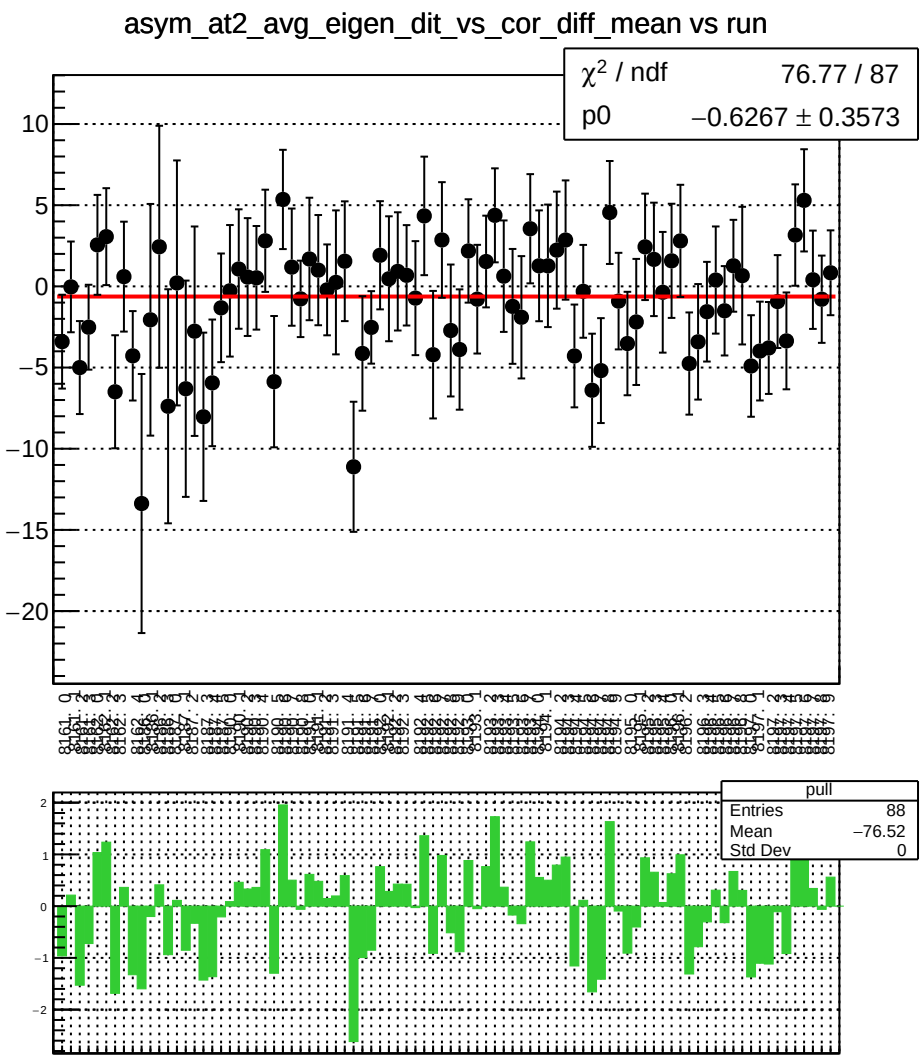

pull1D
Entries 88
Mean −0.02701
Std Dev 0.9336

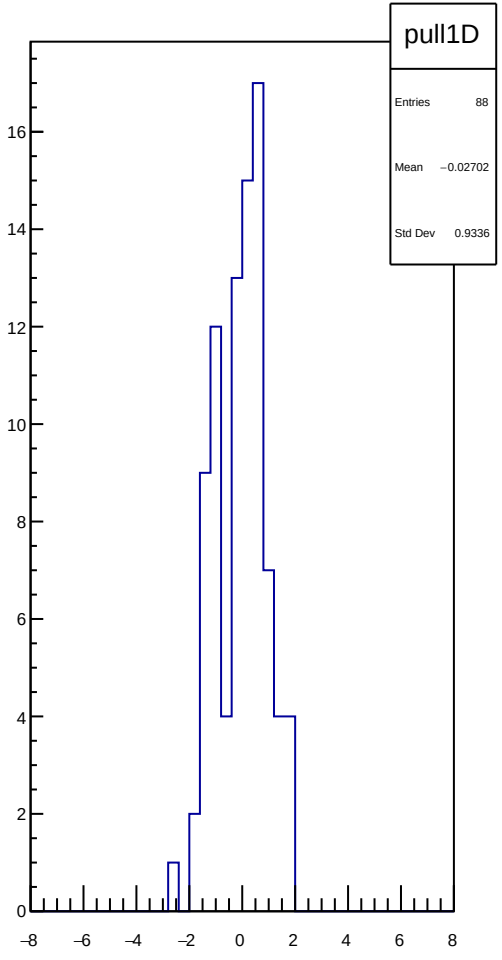

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.191e+04 / 87
p0 320.1 ± 0.2527
800
700
600
500
400
300

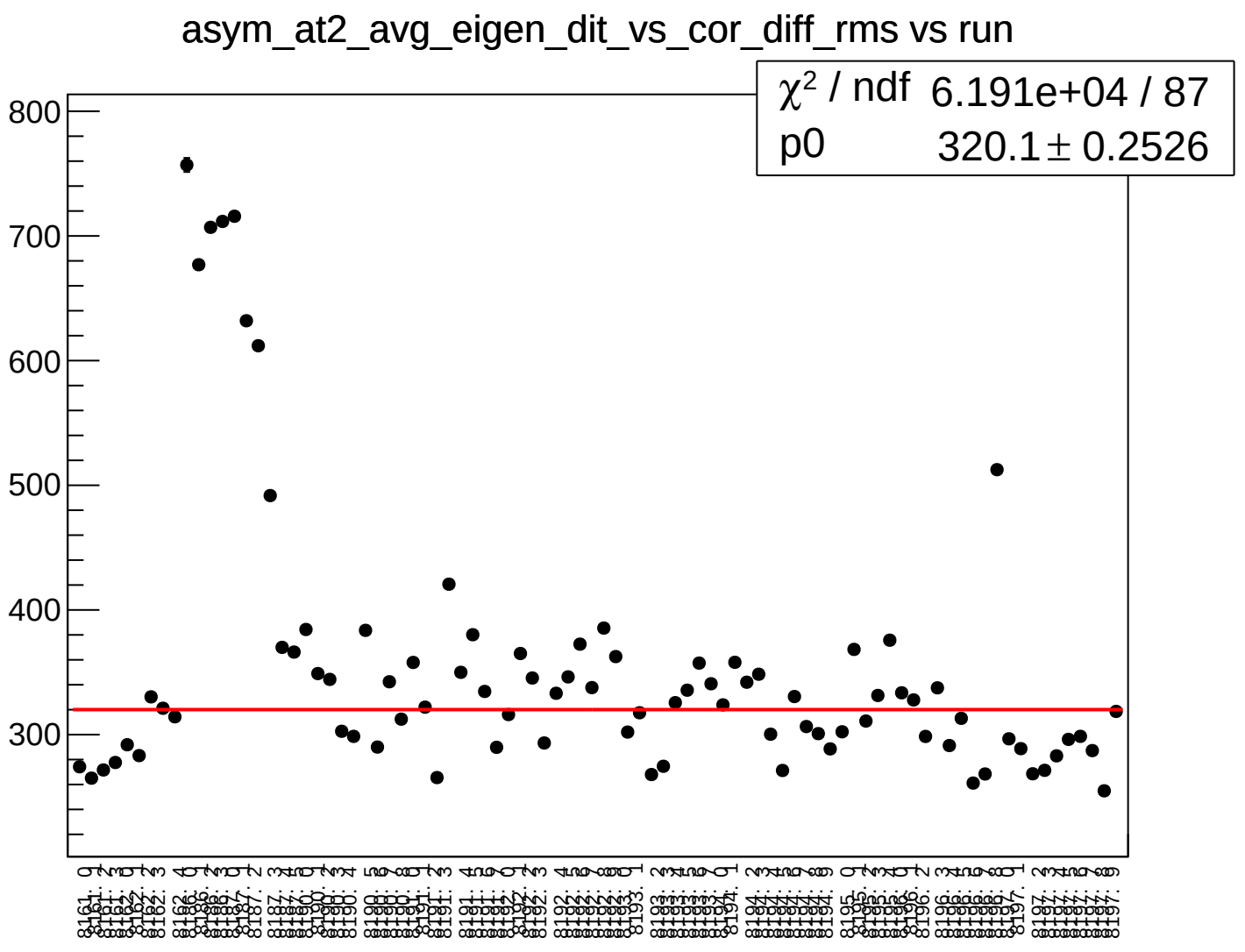

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.65 / 87
p0 3.592e−07 ± 3.16e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 37.37
Std Dev 17.59
3
2
1
0
−1
−2

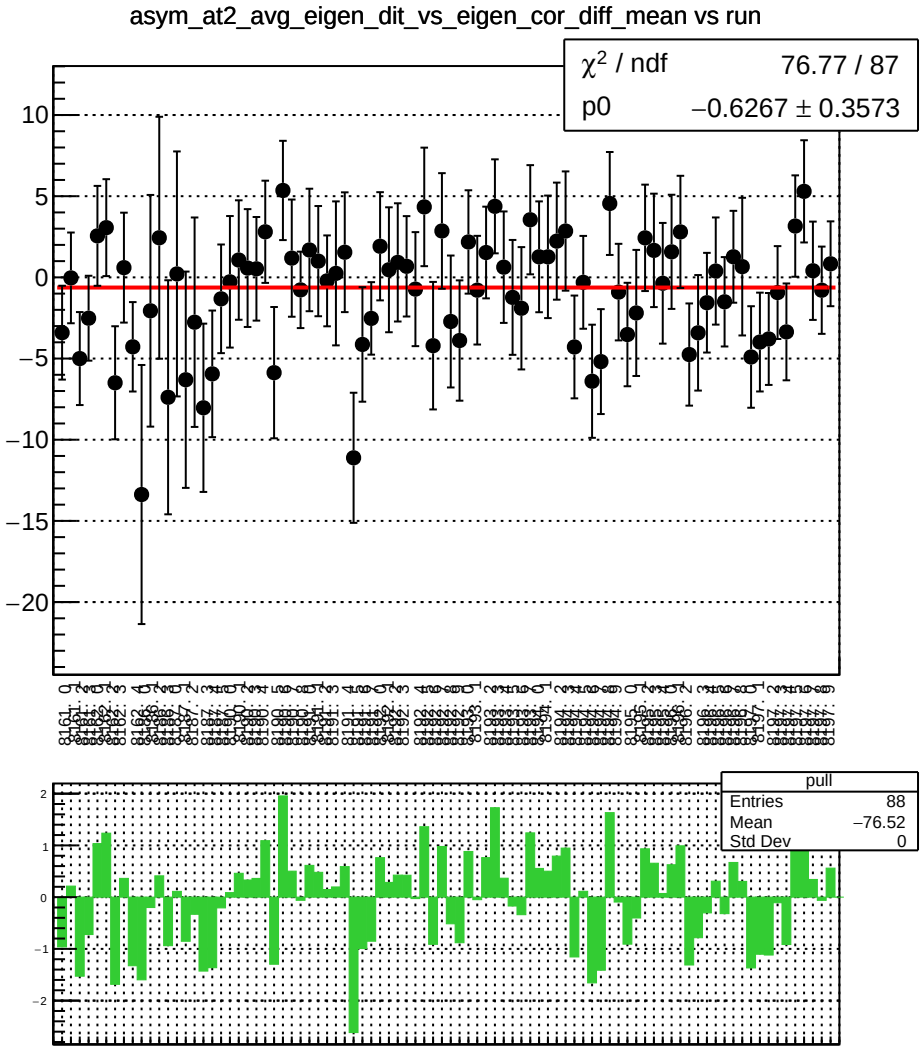

pull1D
Entries 88
Mean 0.06975
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

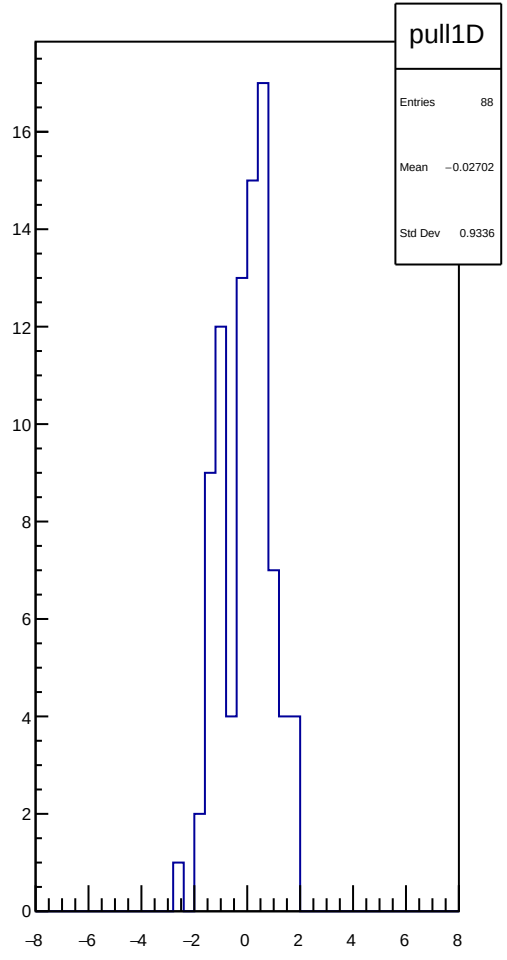

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.381e+05 / 87
p0 0.02477 ± 2.235e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

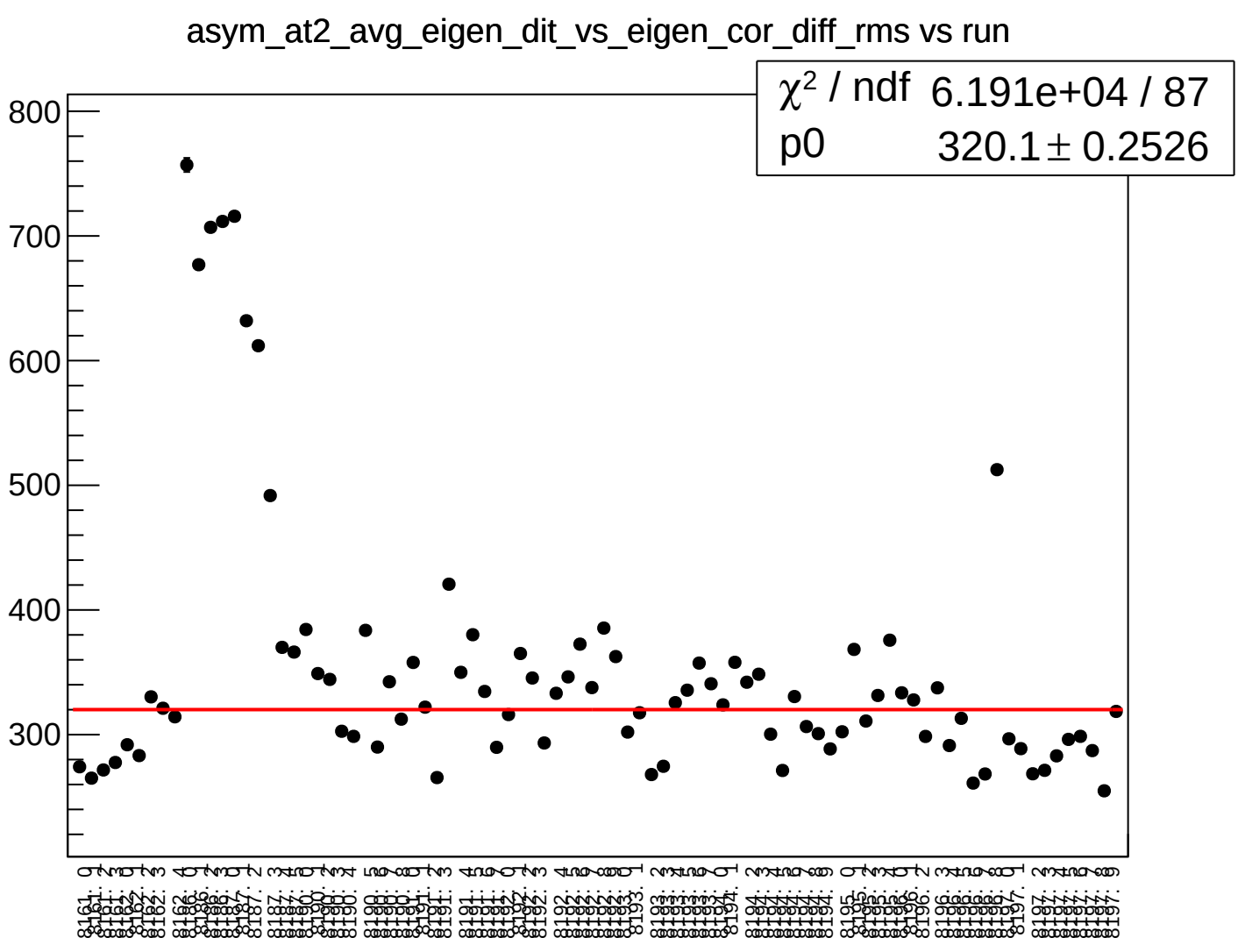

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.77 / 87
p0 −0.6267 ± 0.3573
pull
Entries 88
Mean −76.52
Std Dev 0

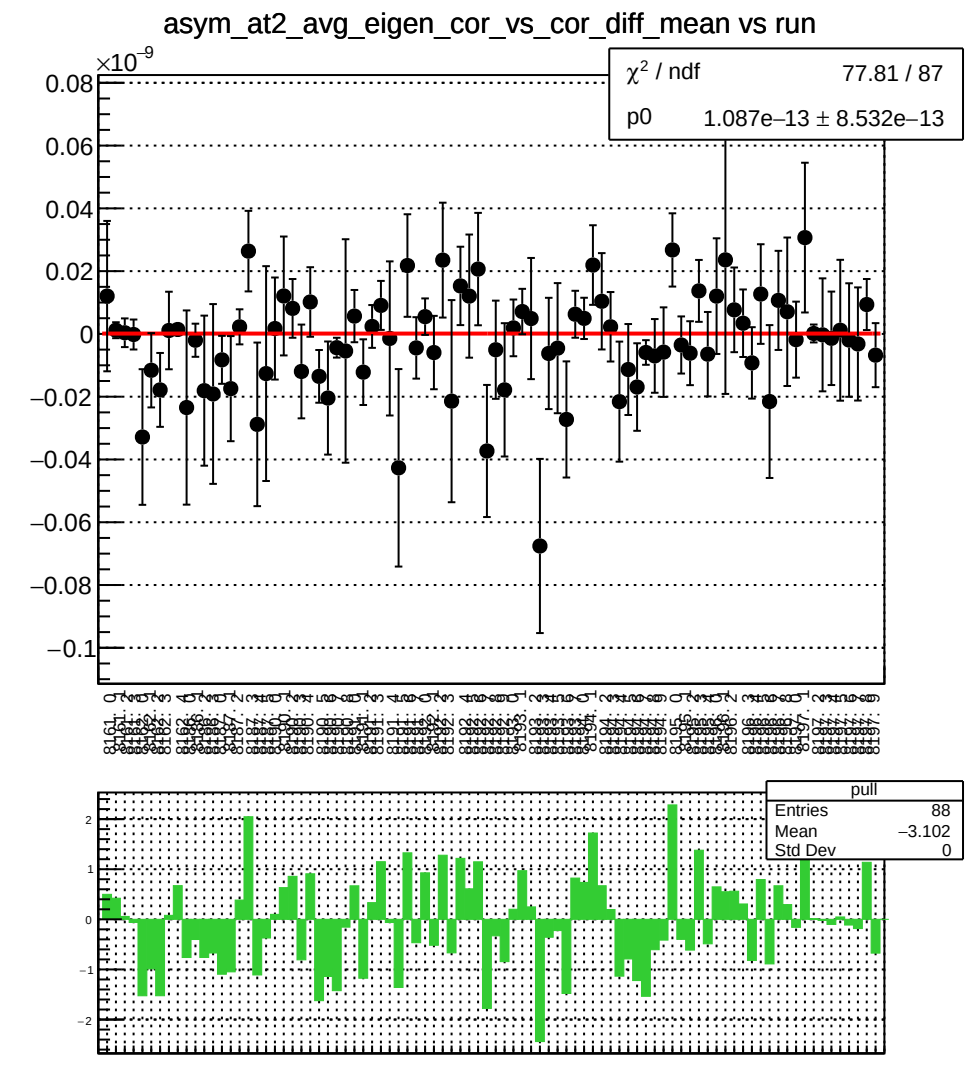

pull1D
Entries 88
Mean −0.02702
Std Dev 0.9336

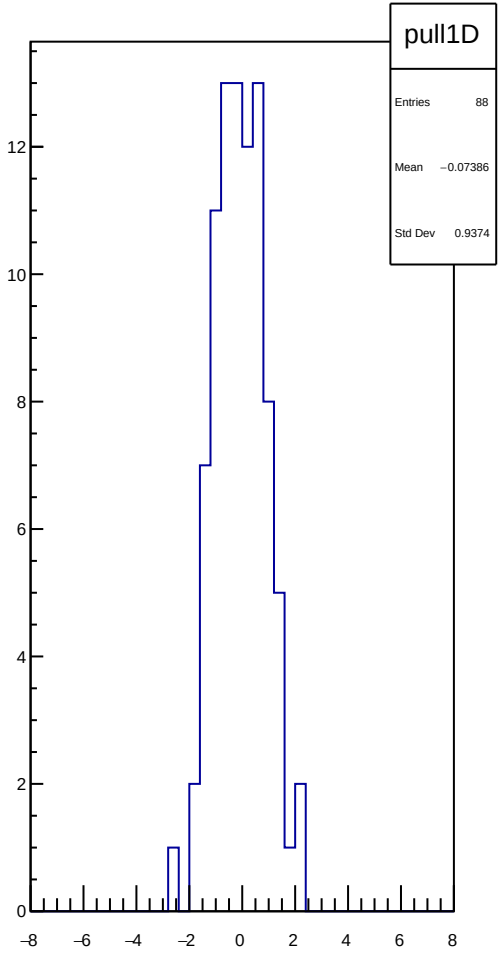

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.191e+04 / 87
p0 320.1 ± 0.2526
800
700
600
500
400
300

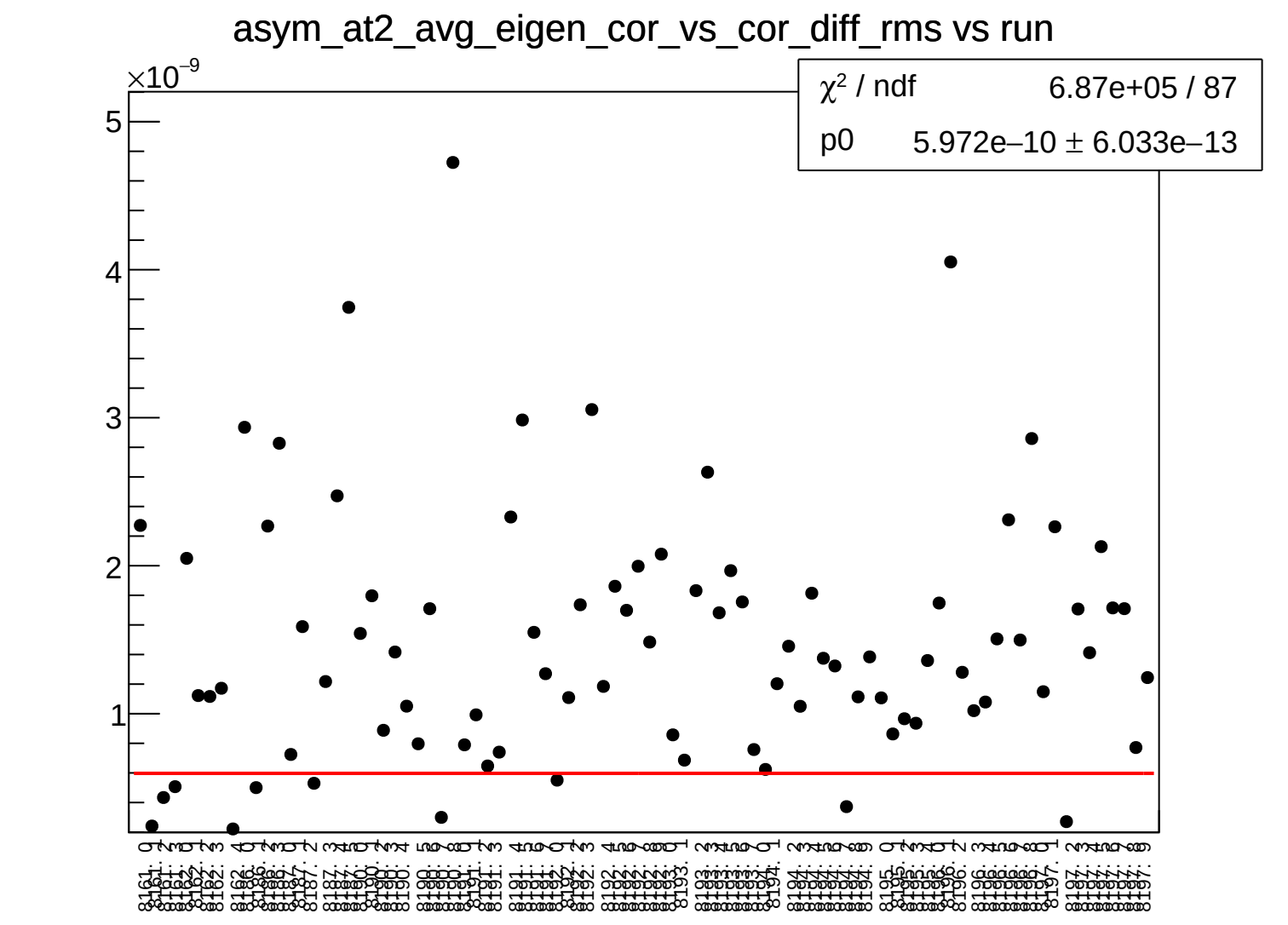

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.77 / 87
p0 −0.6267 ± 0.3573
pull
Entries 88
Mean −76.52
Std Dev 0

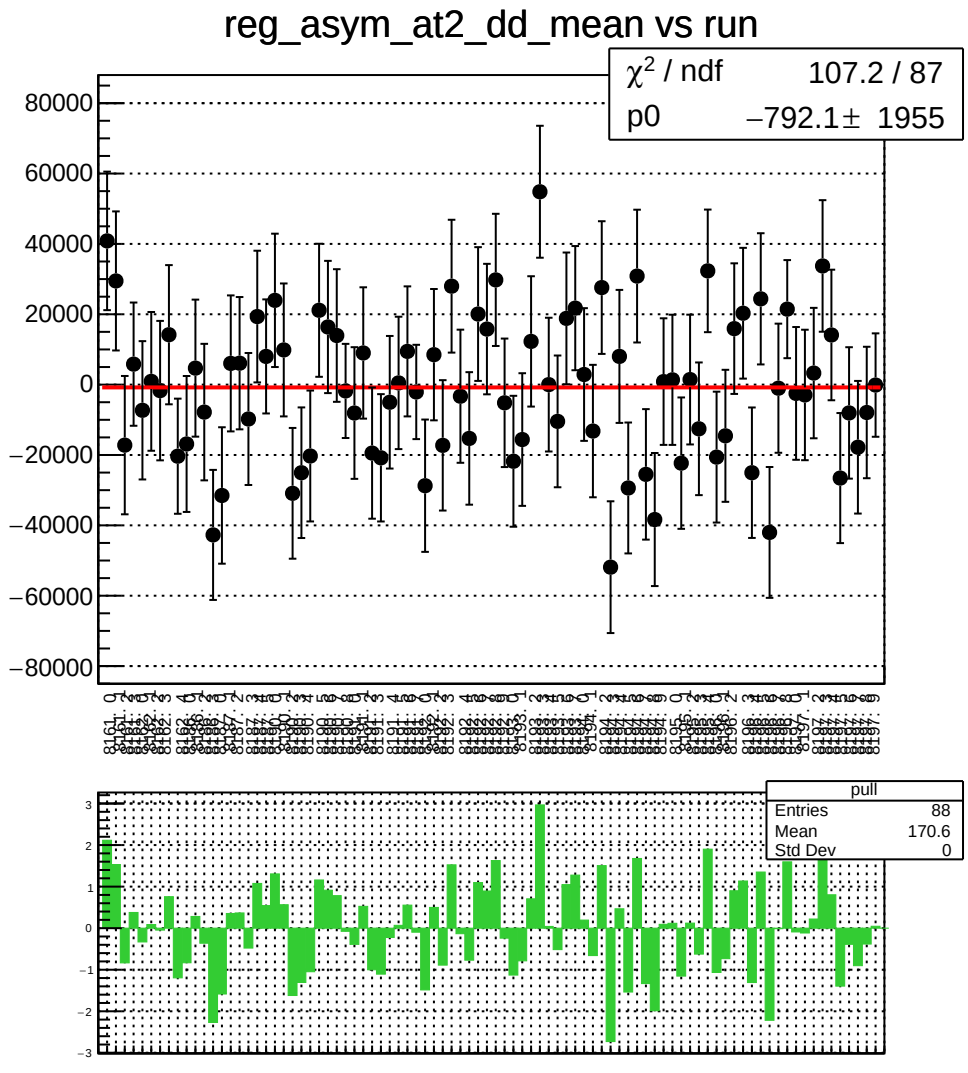

pull1D
Entries 88
Mean −0.02702
Std Dev 0.9336

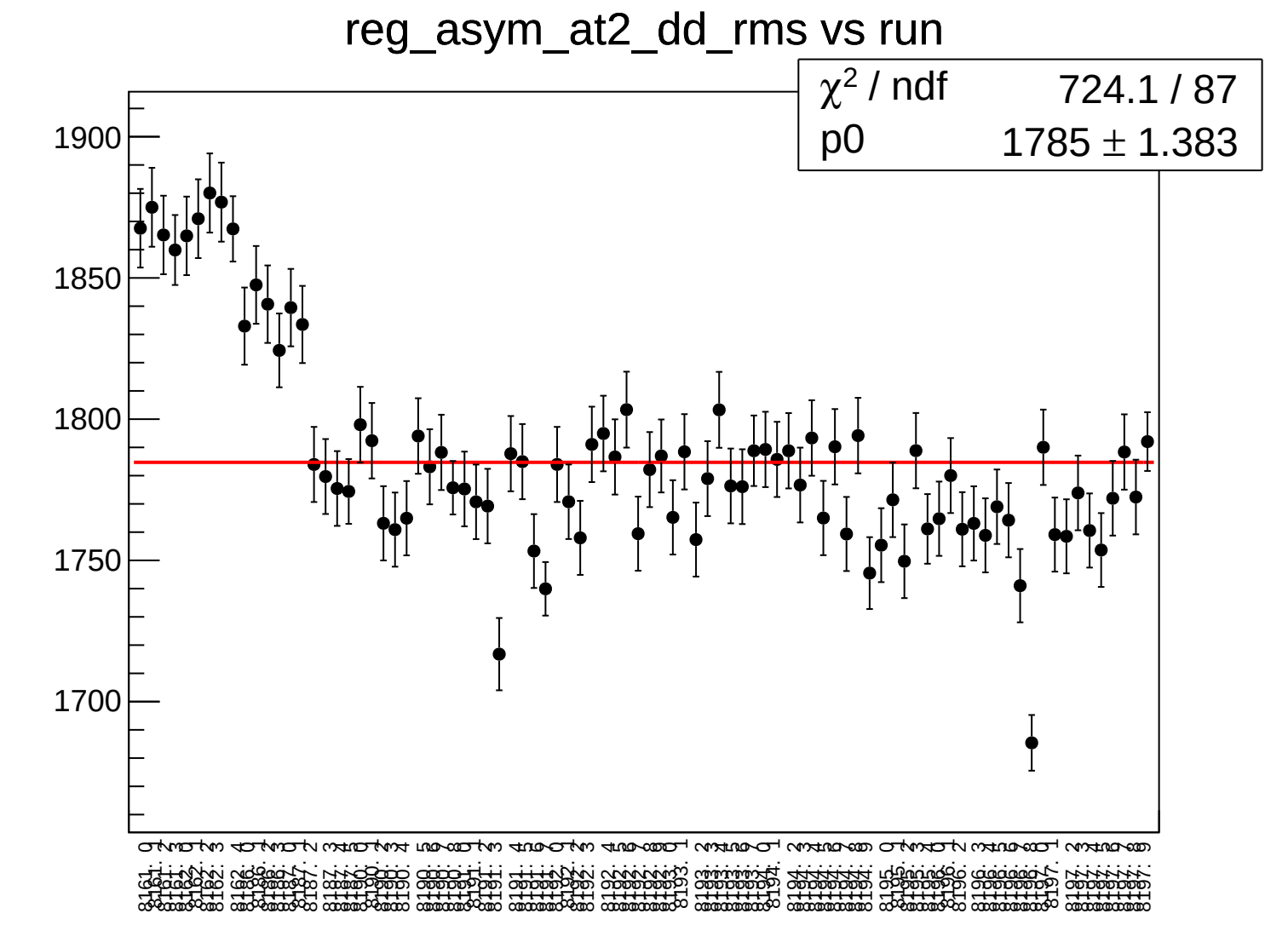

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.191e+04 / 87
p0 320.1 ± 0.2526
800
700
600
500
400
300

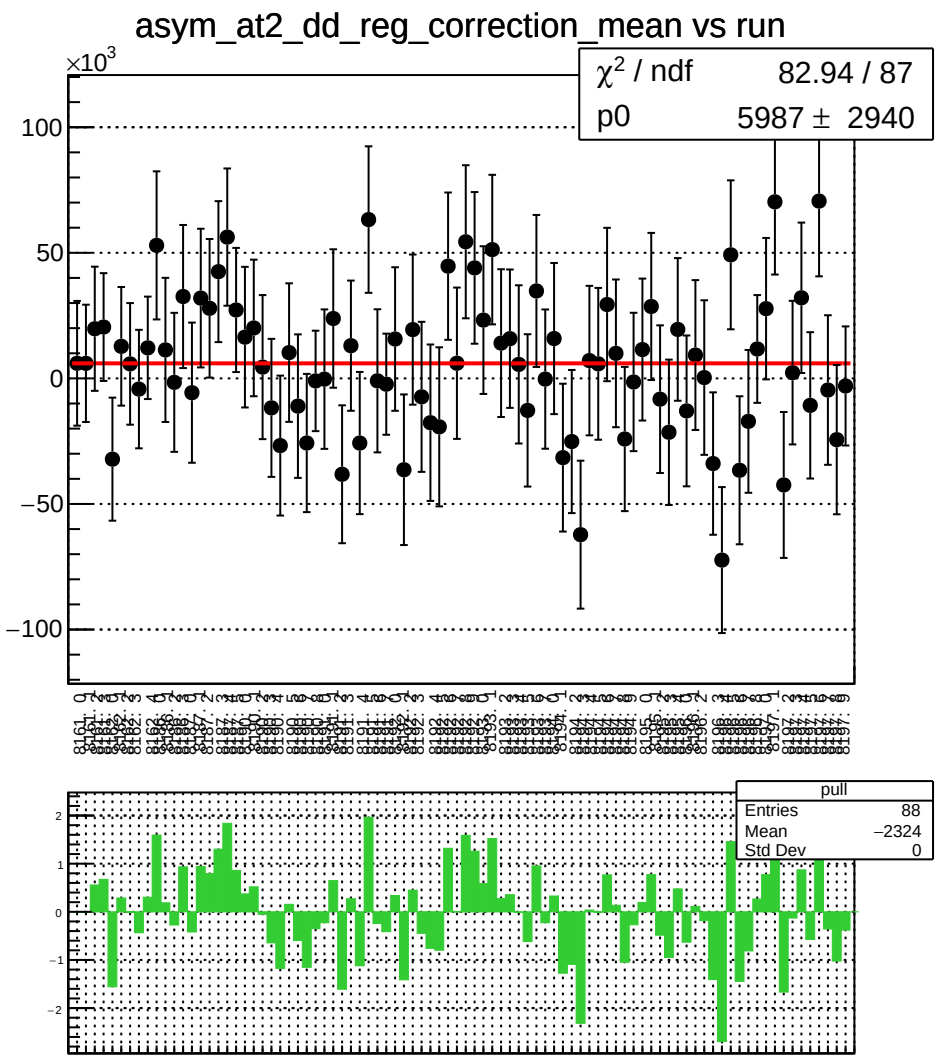

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 77.81 / 87
p0 1.087e−13 ± 8.532e−13
pull
Entries 88
Mean −3.102
Std Dev 0

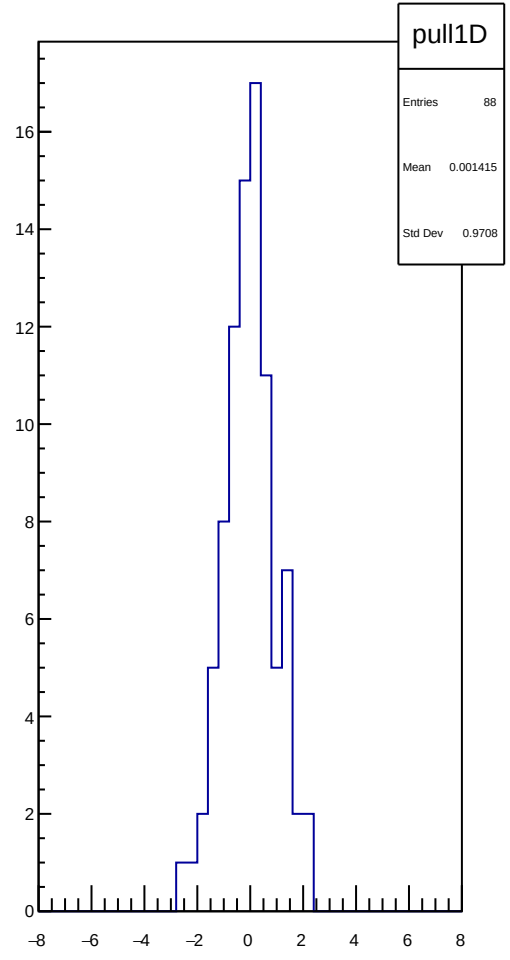

pull1D
Entries 88
Mean −0.07386
Std Dev 0.9374

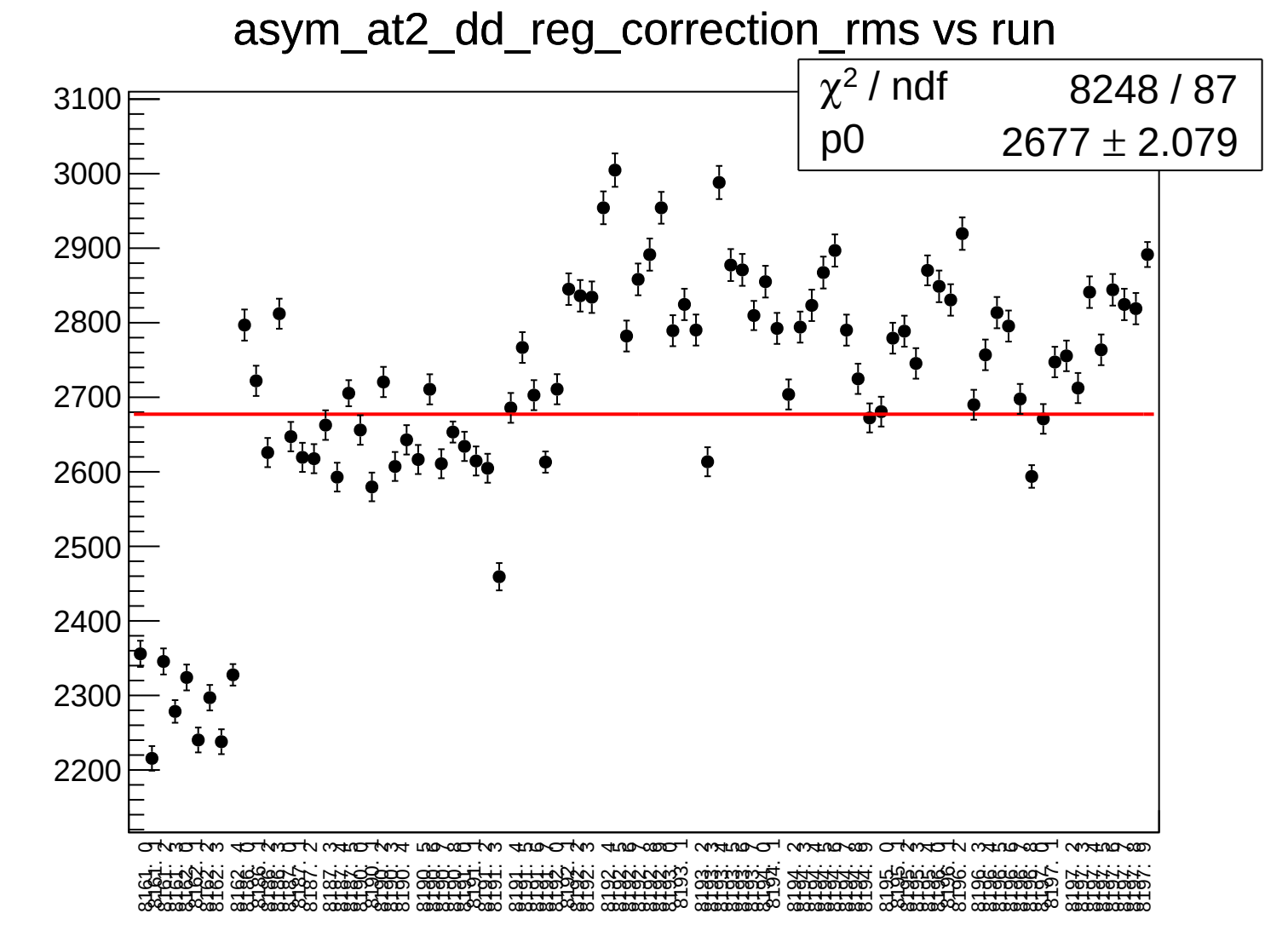

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.87e+05 / 87
p0 5.972e−10 ± 6.033e−13
5
4
3
2
1

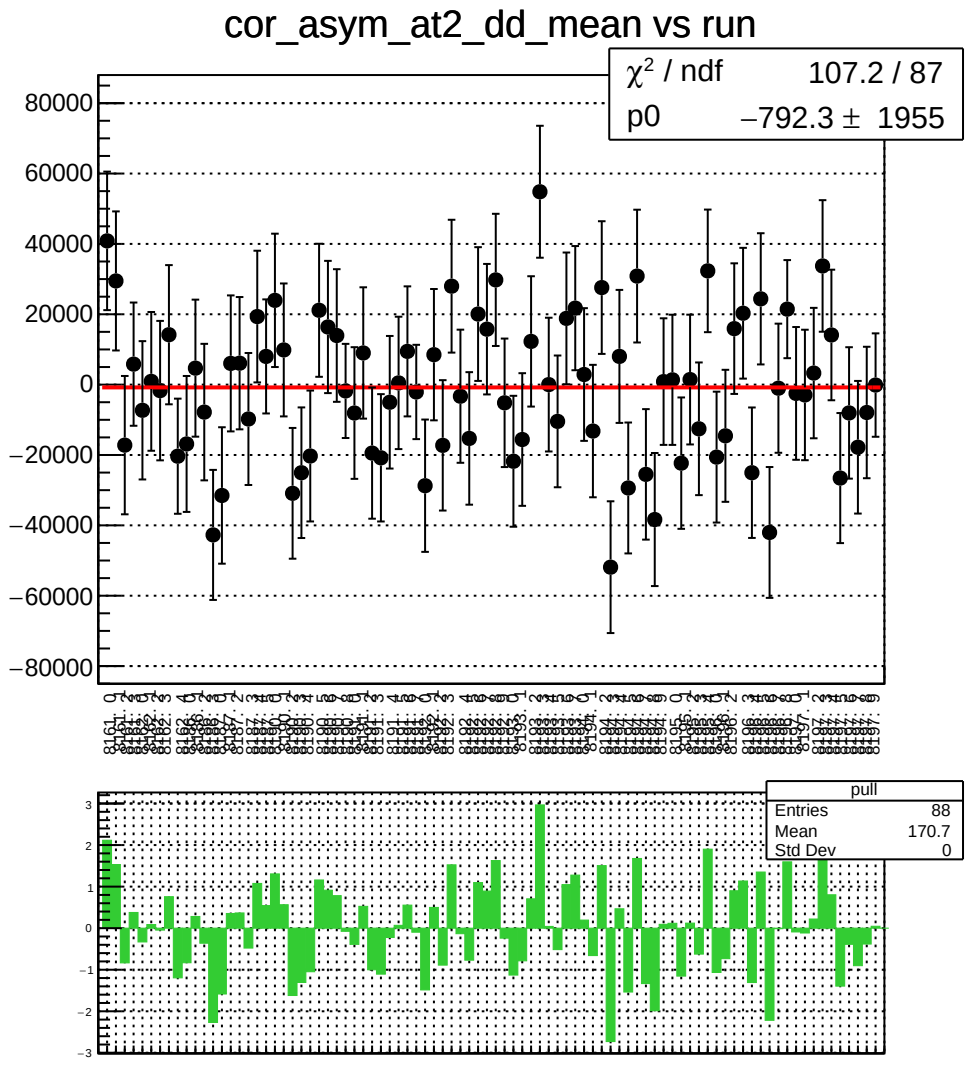

reg_asym_at2_dd_mean vs run
χ² / ndf 107.2 / 87
p0 −792.1± 1955
pull
Entries 88
Mean 170.6
Std Dev 0
pull1D
Entries 88
Mean −0.004029
Std Dev 1.104

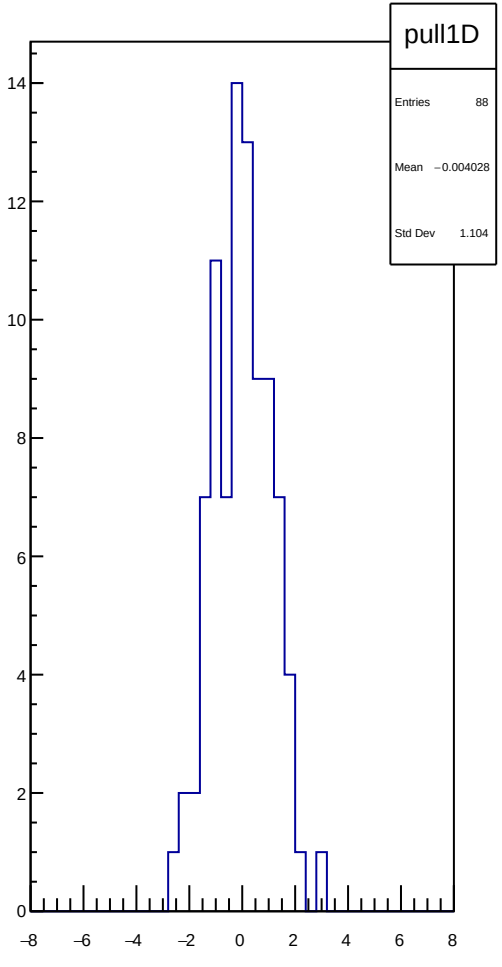

reg_asym_at2_dd_rms vs run
χ² / ndf 724.1 / 87
p0 1785 ± 1.383
1900
1850
1800
1750
1700

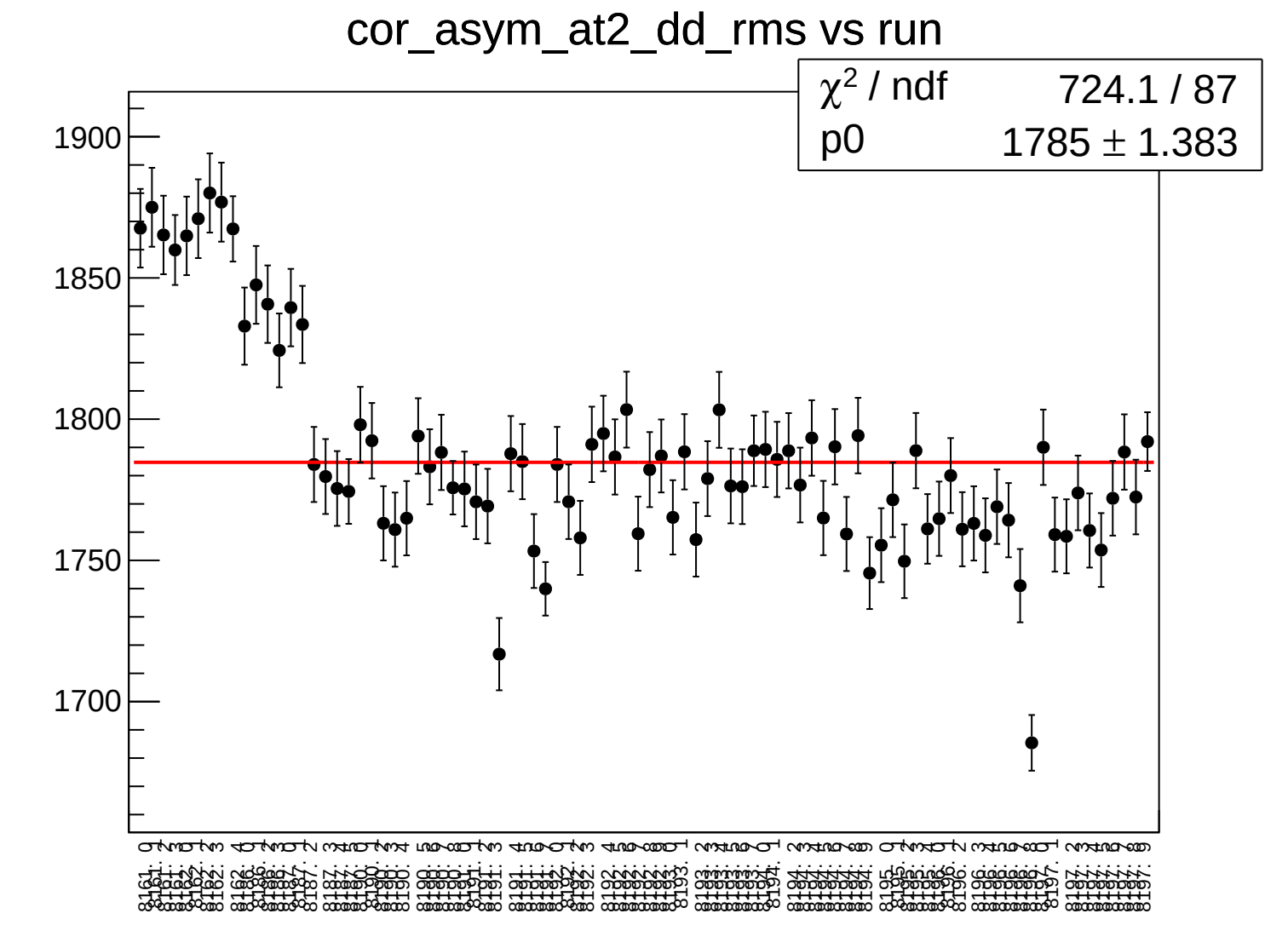

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 82.94 / 87
p0 5987 ± 2940
×10³
100
50
0
−50
−100
pull
Entries 88
Mean −2324
Std Dev 0
2
1
0
−1
−2

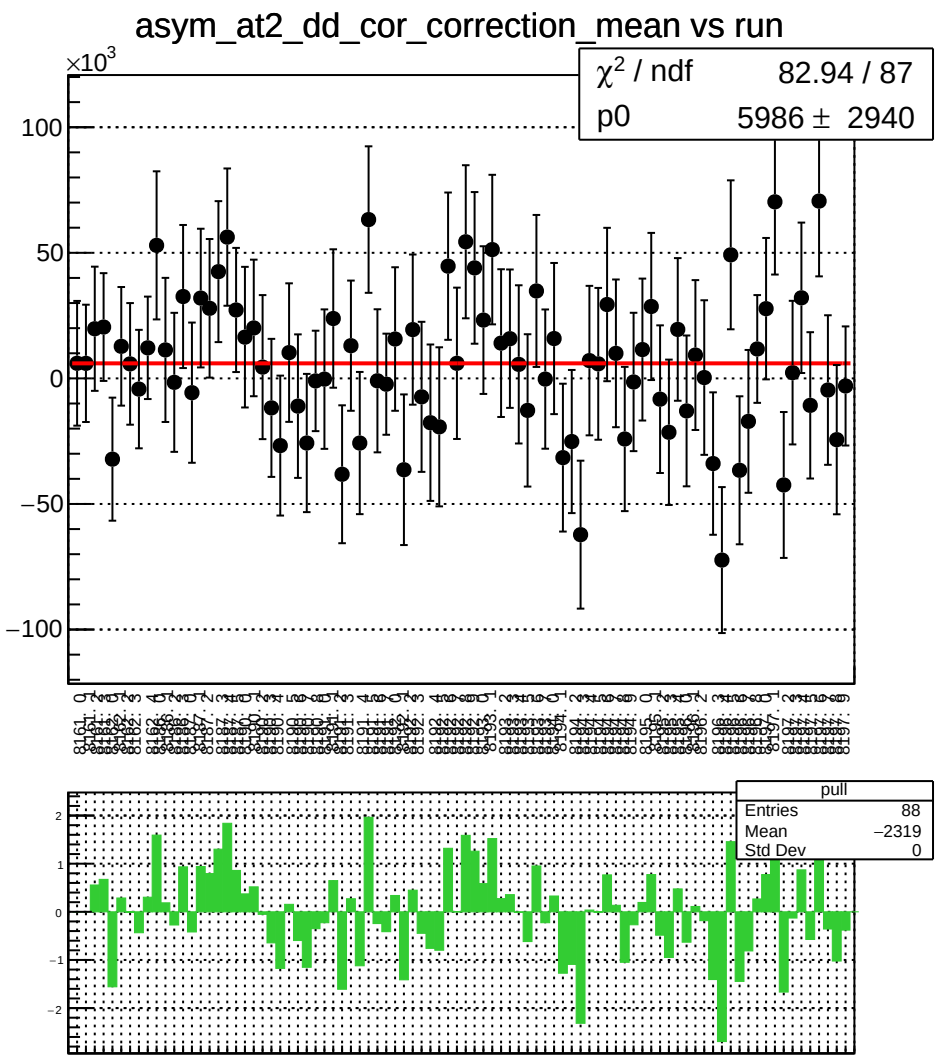

pull1D
Entries 88
Mean 0.001415
Std Dev 0.9708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

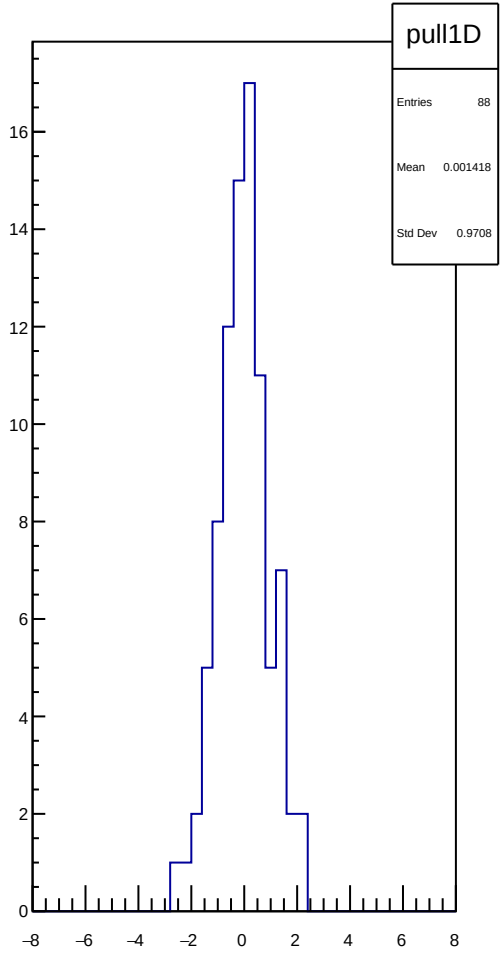

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 8248 / 87
p0 2677 ± 2.079
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200

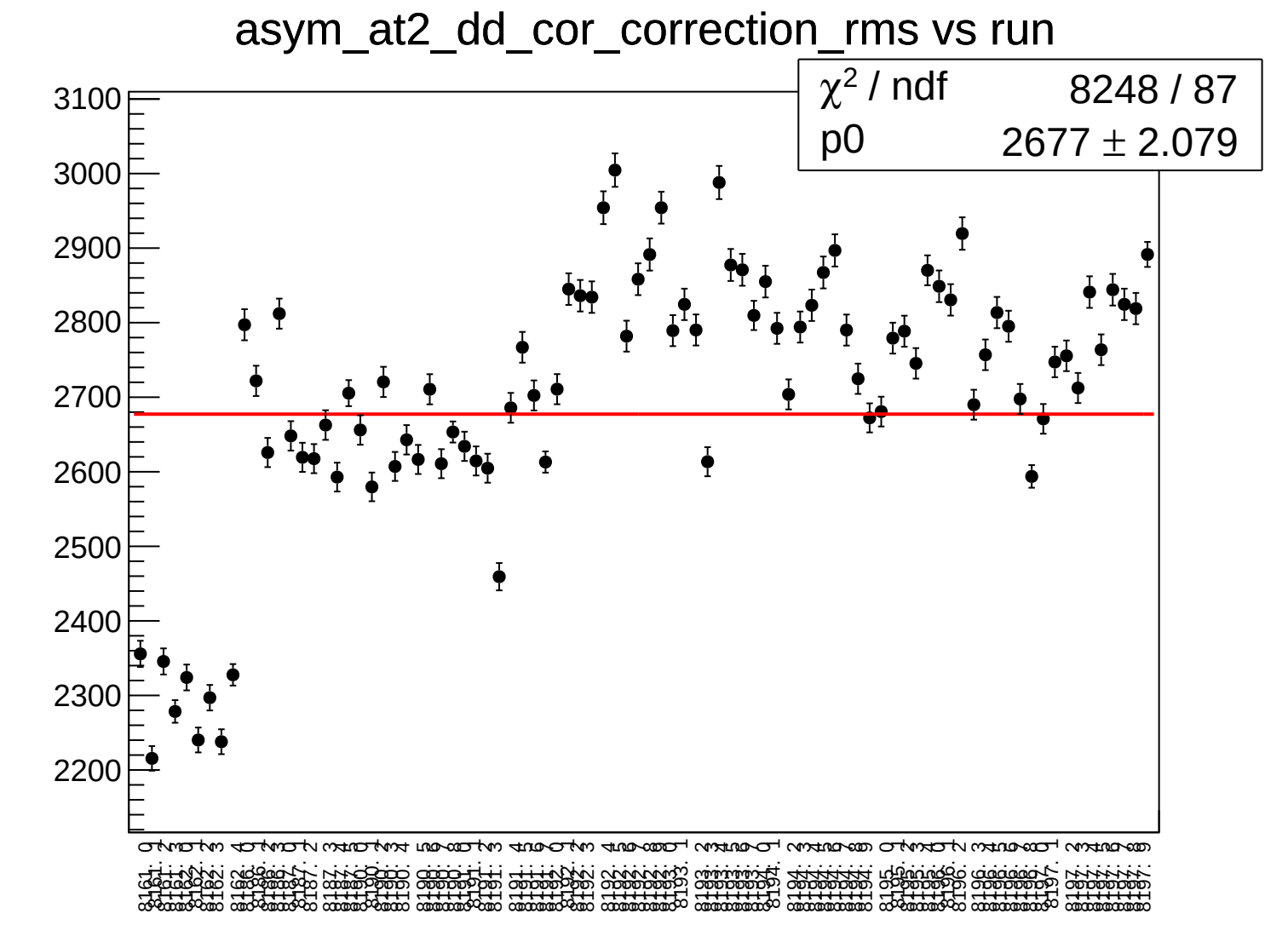

cor_asym_at2_dd_mean vs run
χ² / ndf 107.2 / 87
p0 −792.3 ± 1955
pull
Entries 88
Mean 170.7
Std Dev 0

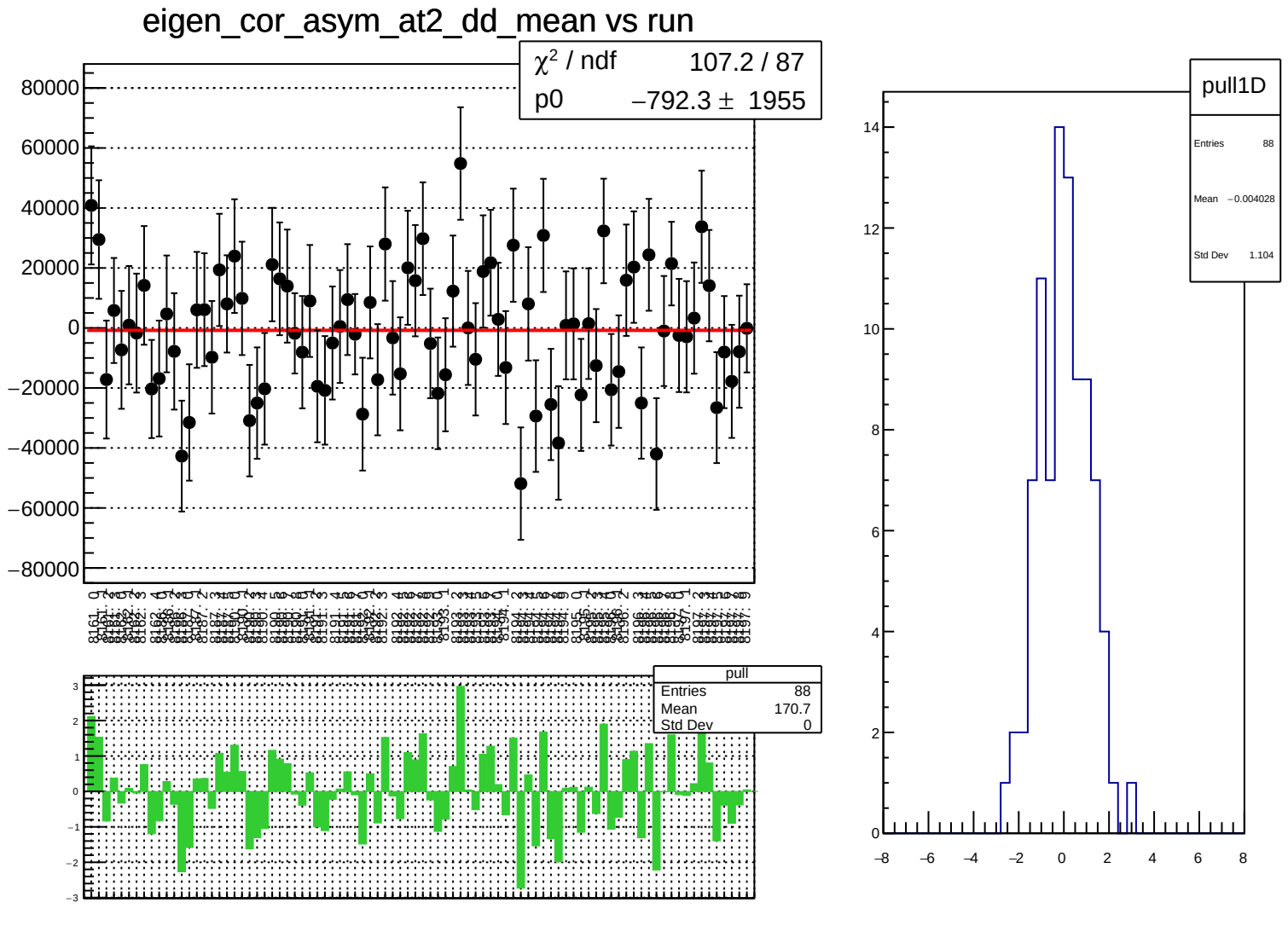

pull1D
Entries 88
Mean −0.004028
Std Dev 1.104

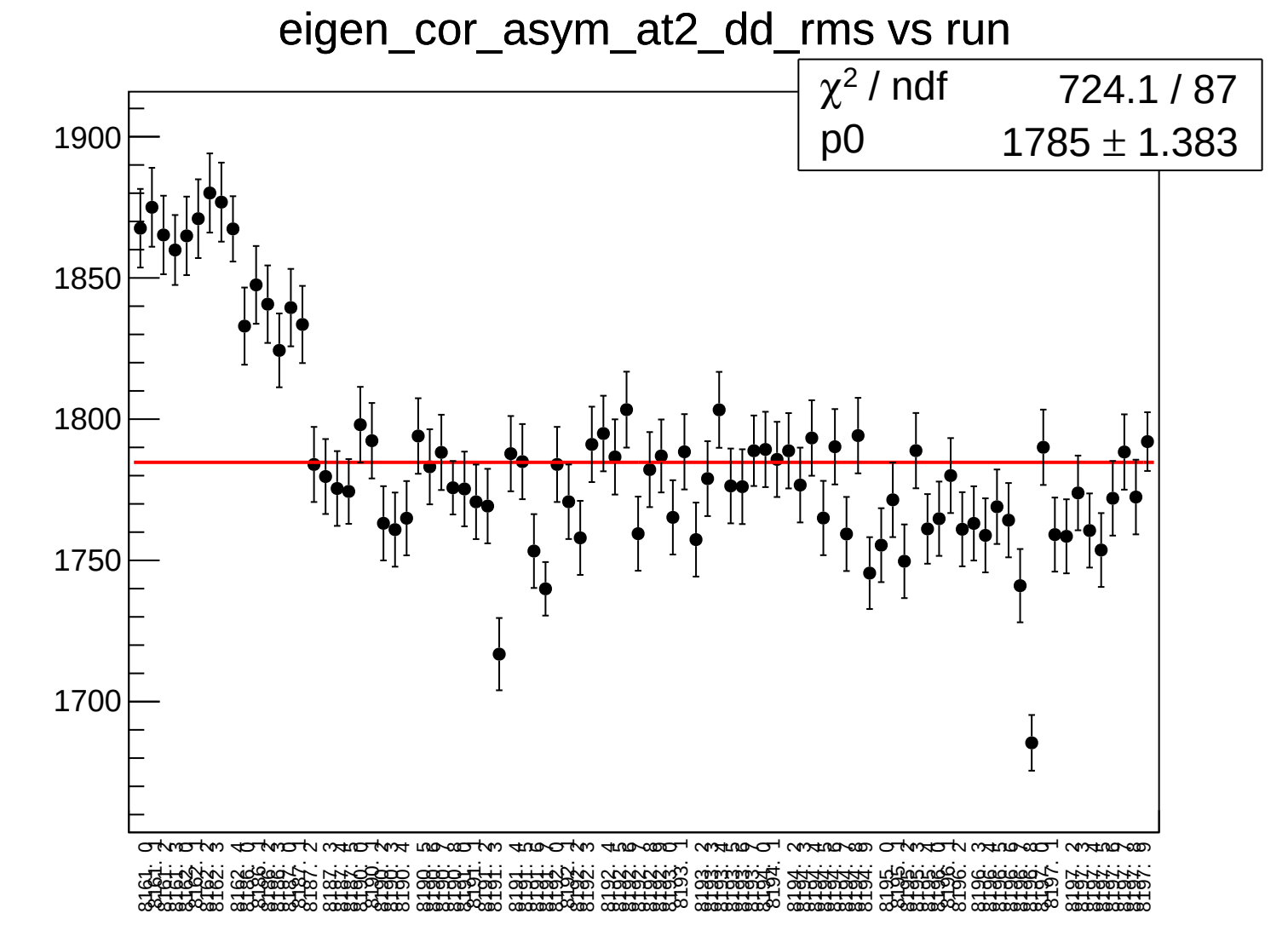

cor_asym_at2_dd_rms vs run
χ² / ndf 724.1 / 87
p0 1785 ± 1.383
1900
1850
1800
1750
1700

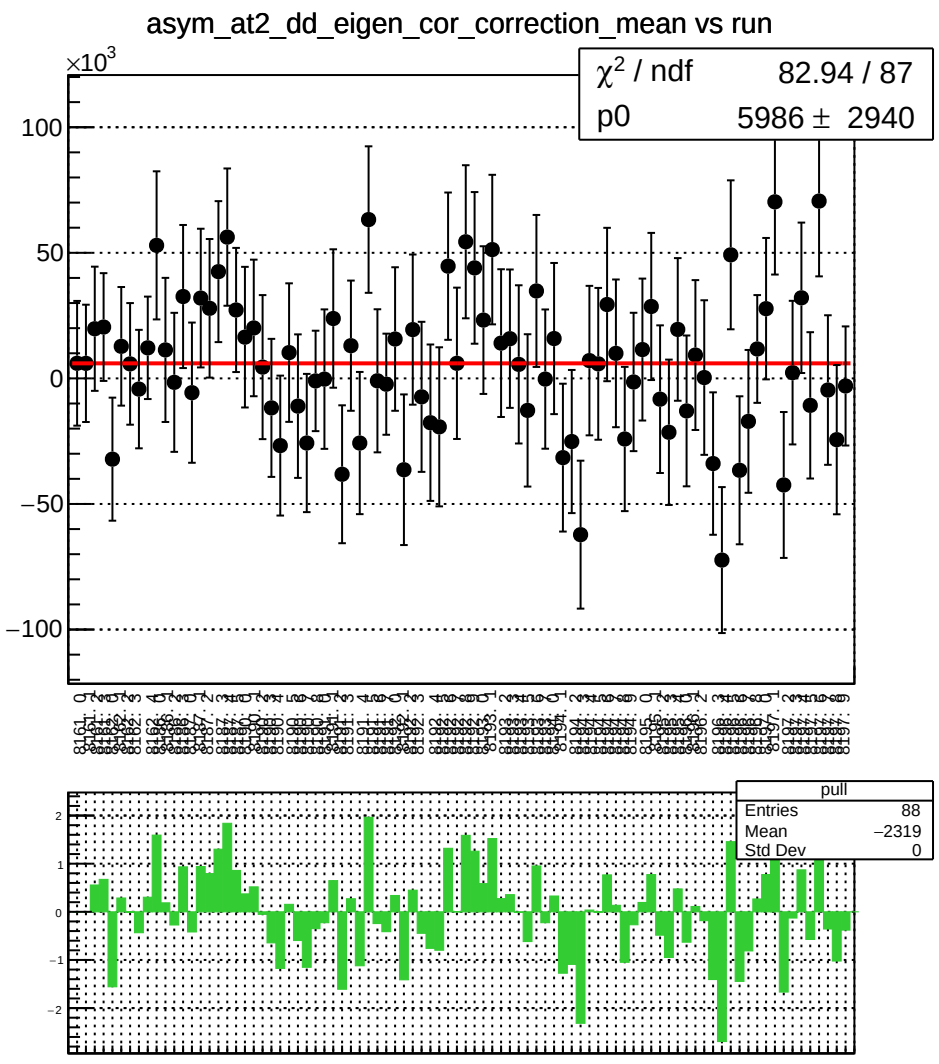

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 82.94 / 87
p0 5986 ± 2940
×10³
100
50
0
−50
−100
pull
Entries 88
Mean −2319
Std Dev 0
2
1
0
−1
−2

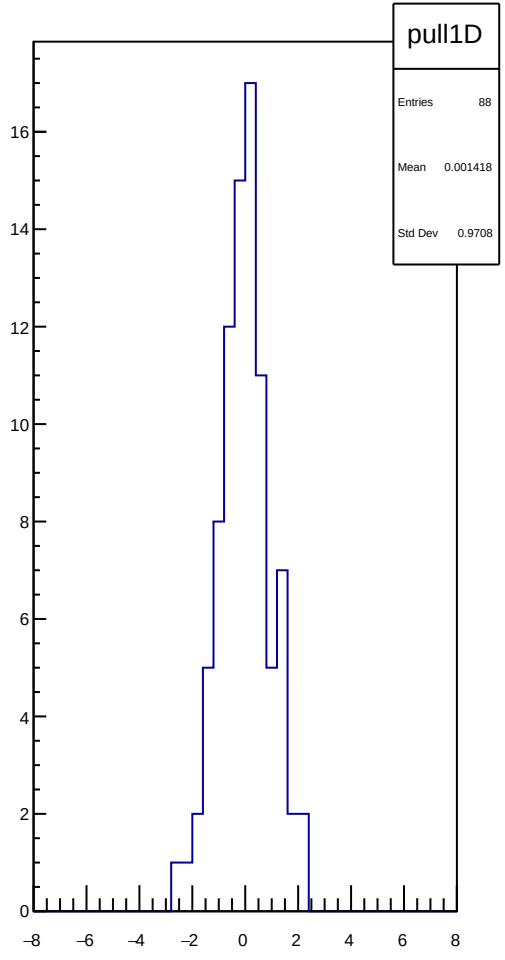

pull1D
Entries 88
Mean 0.001418
Std Dev 0.9708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

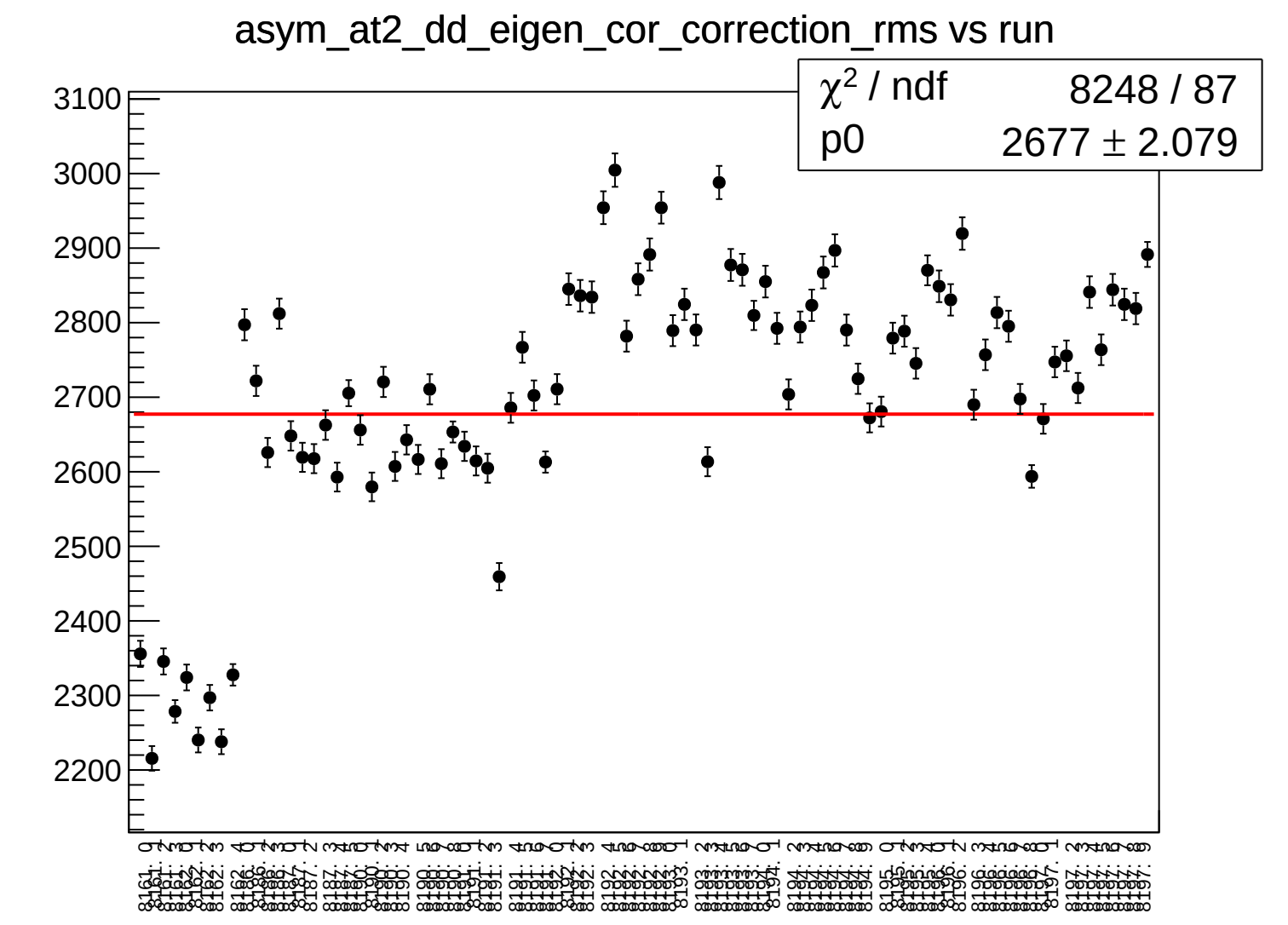

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 8248 / 87
p0 2677 ± 2.079
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200

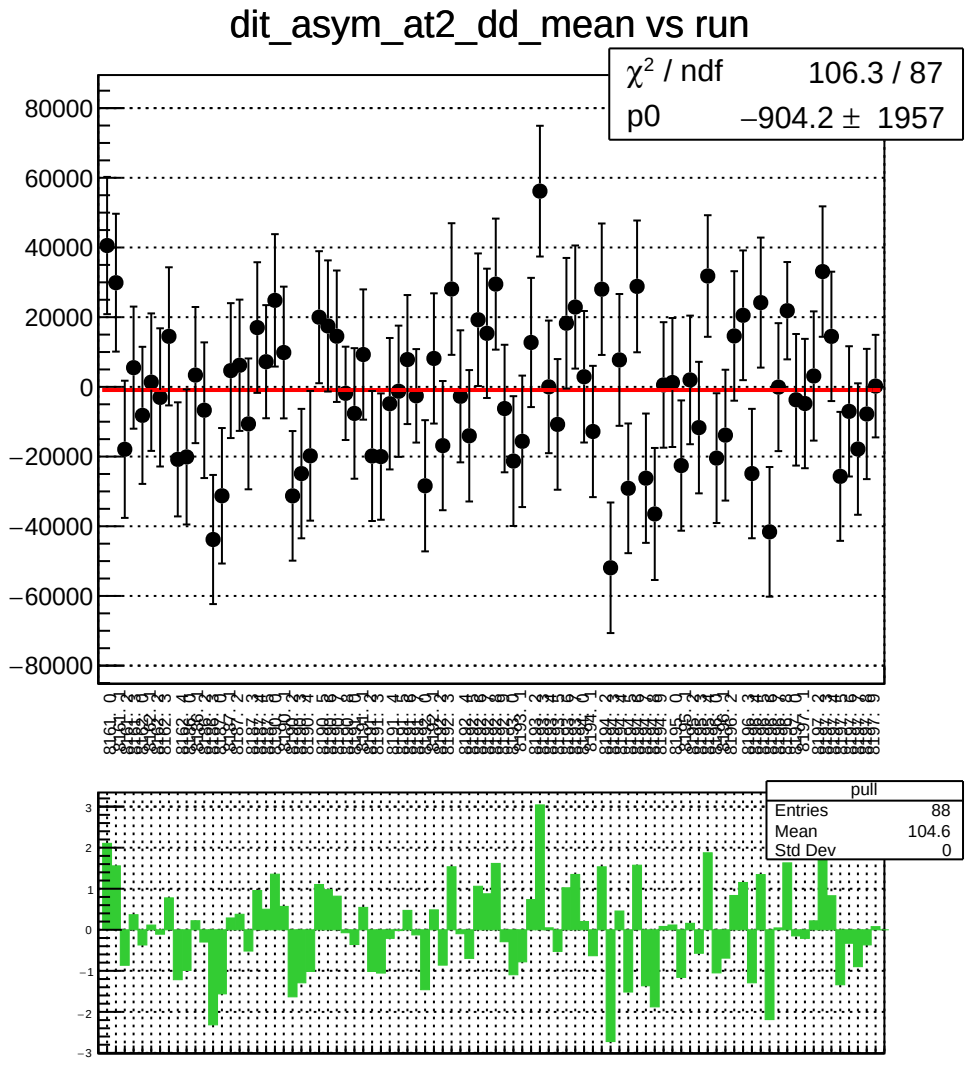

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 107.2 / 87
p0 −792.3 ± 1955
pull
Entries 88
Mean 170.7
Std Dev 0
pull1D
Entries 88
Mean −0.004028
Std Dev 1.104

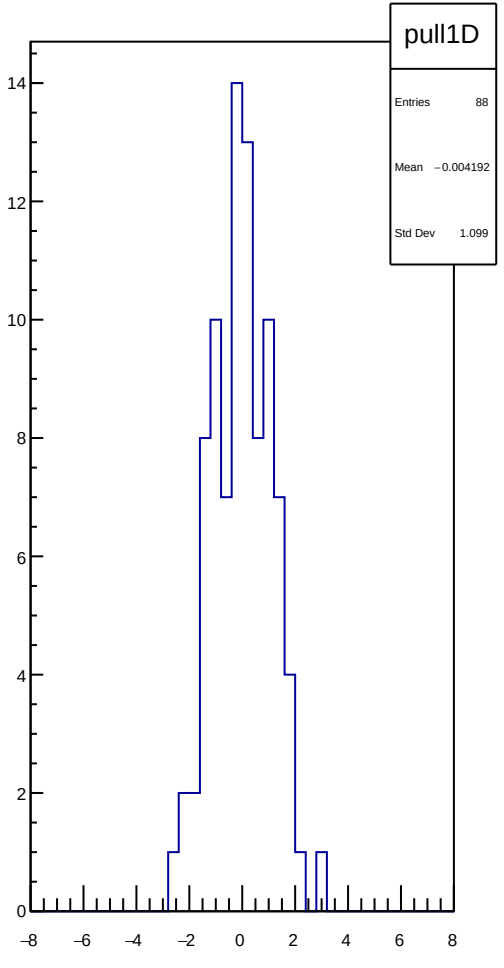

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 724.1 / 87
p0 1785 ± 1.383
1900
1850
1800
1750
1700

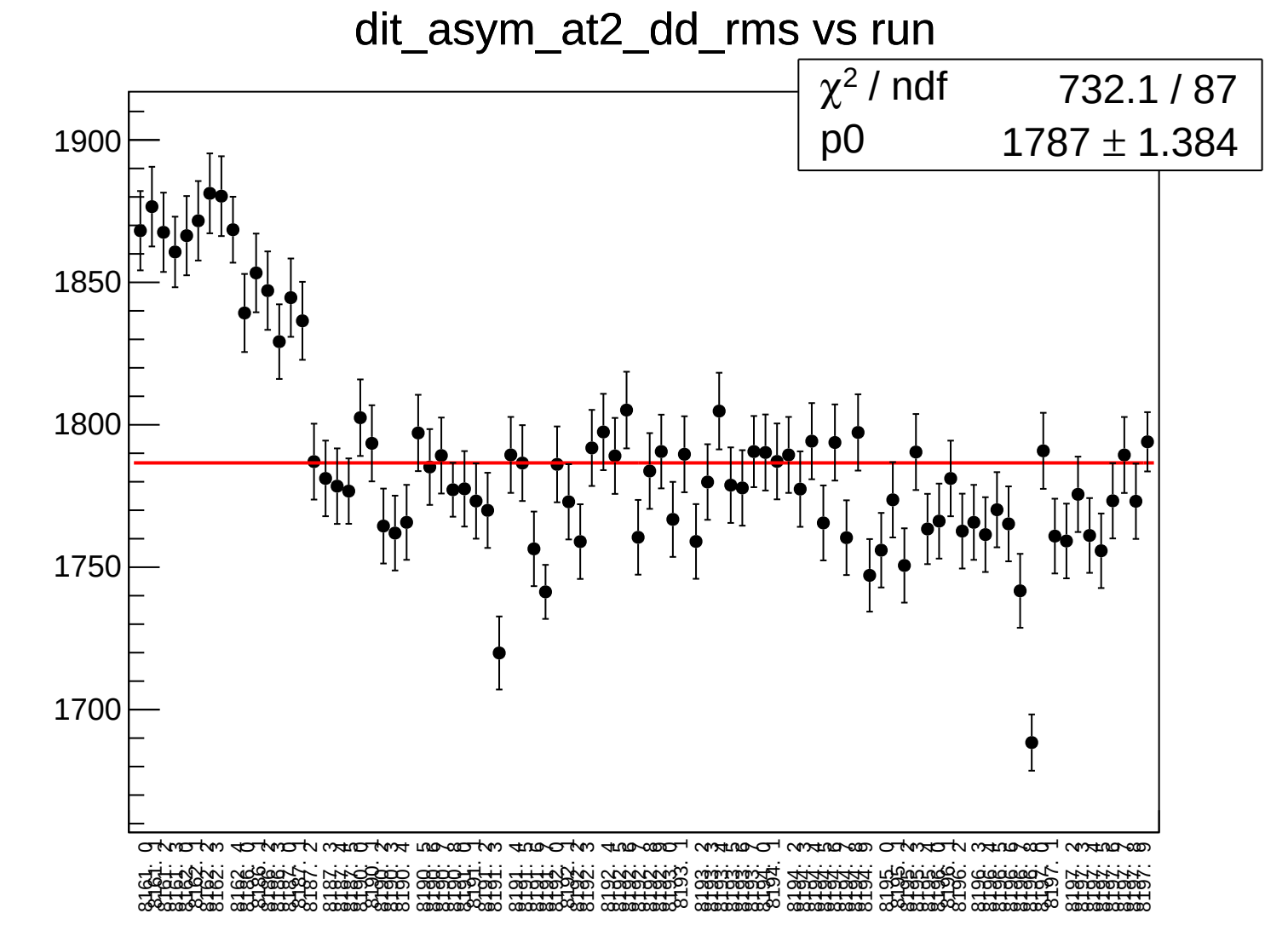

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.94 / 87
p0 5986 ± 2940
100
50
0
−50
−100
pull
Entries 88
Mean −2319
Std Dev 0
2
1
0
−1
−2

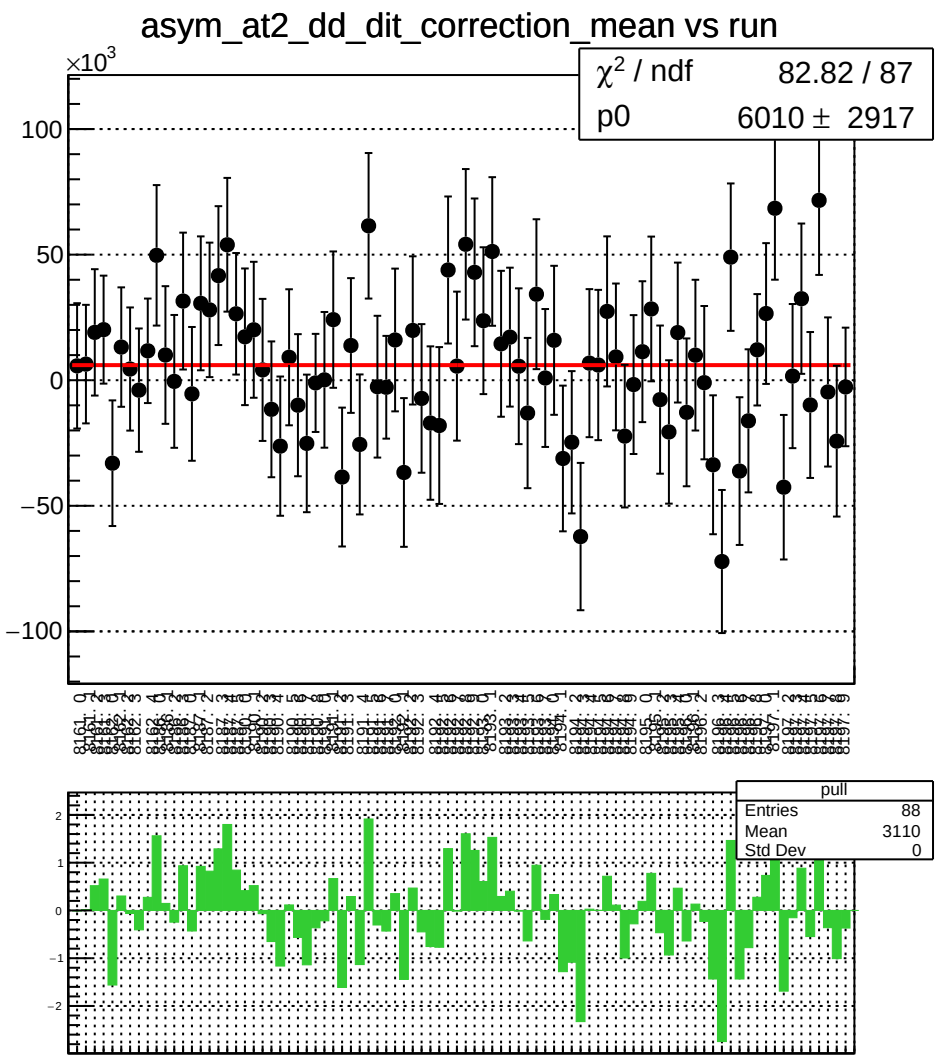

pull1D
Entries 88
Mean 0.001418
Std Dev 0.9708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

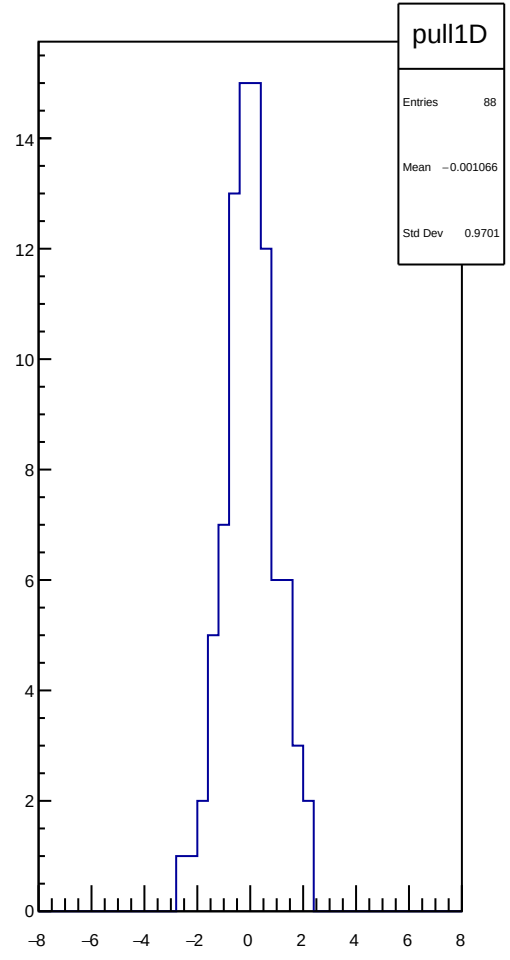

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8248 / 87
p0 2677 ± 2.079
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200

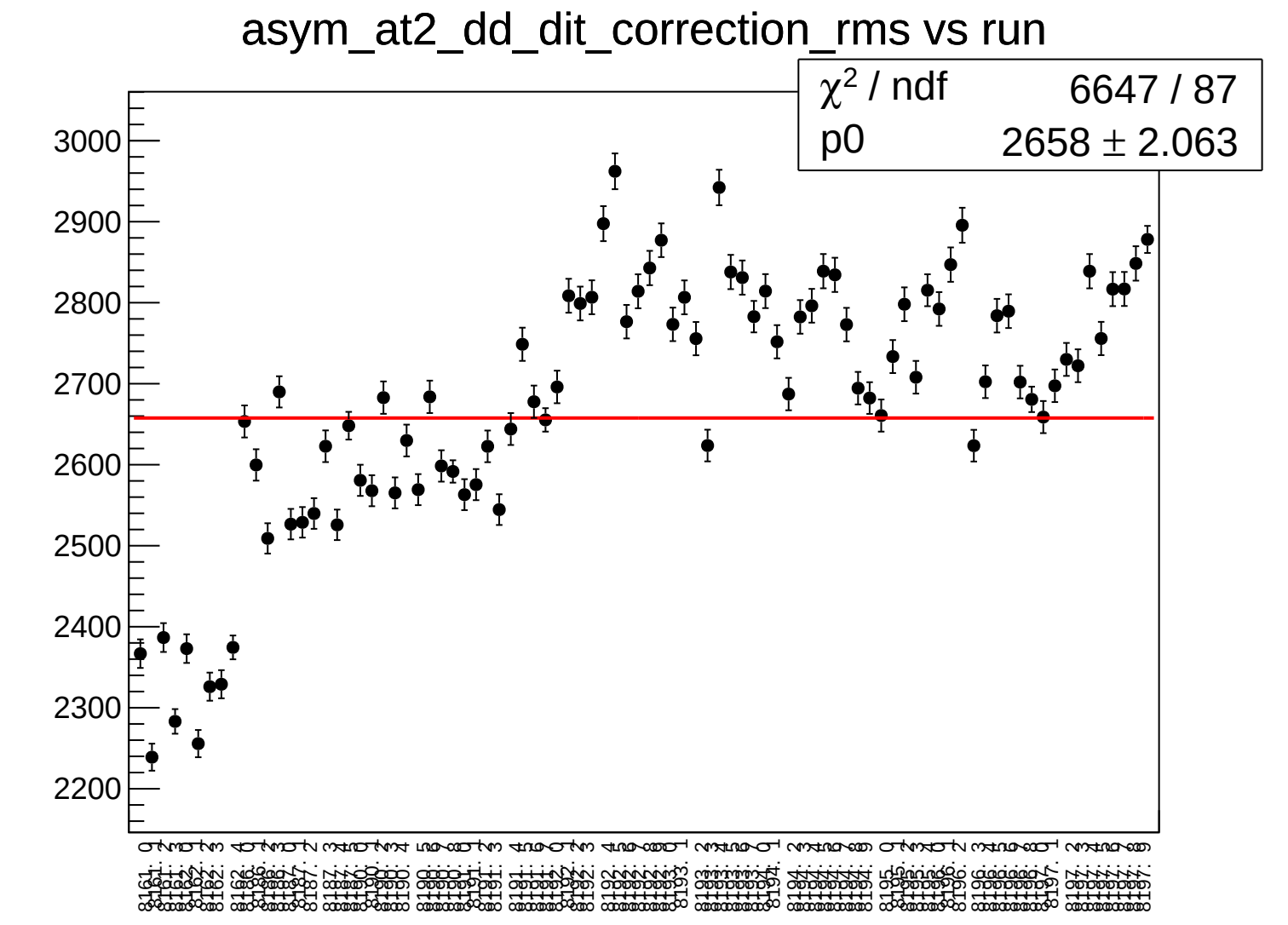

dit_asym_at2_dd_mean vs run
χ² / ndf 106.3 / 87
p0 −904.2 ± 1957
pull
Entries 88
Mean 104.6
Std Dev 0

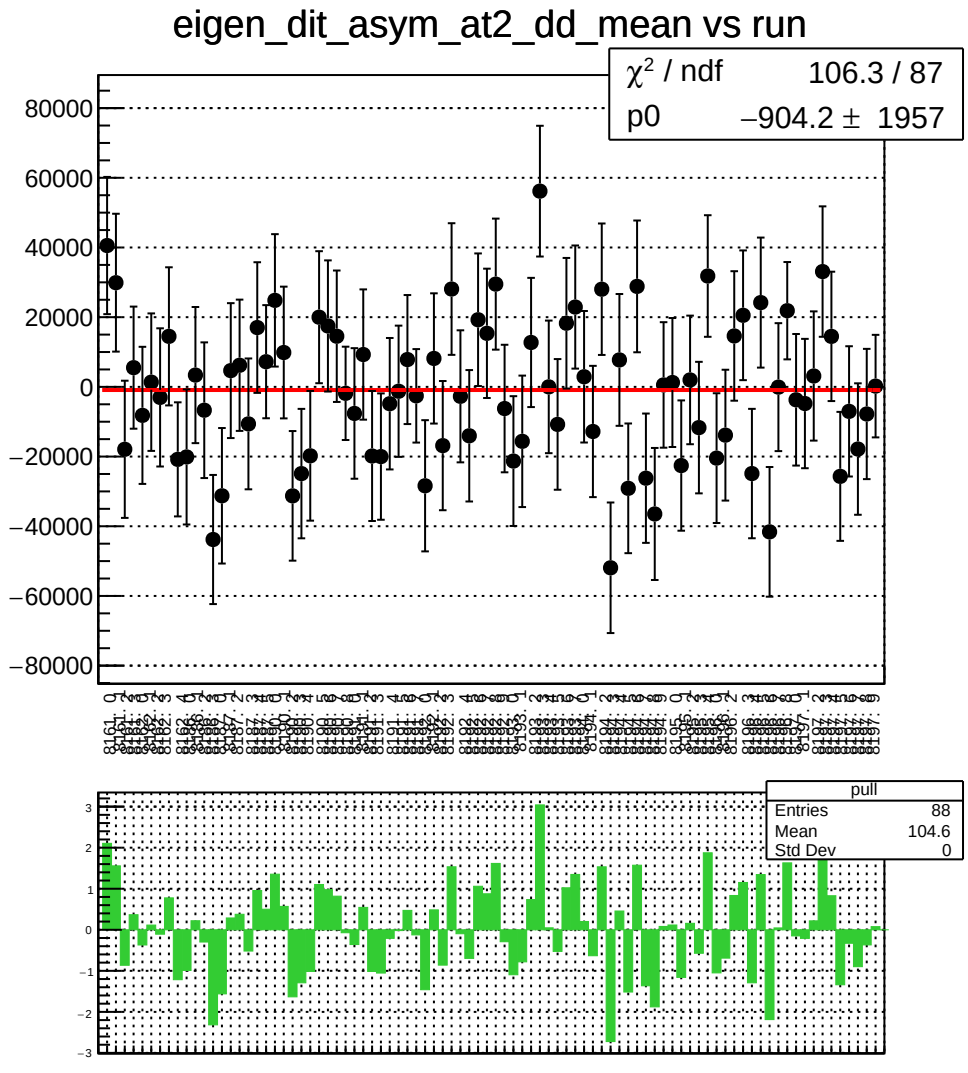

pull1D
Entries 88
Mean −0.004192
Std Dev 1.099

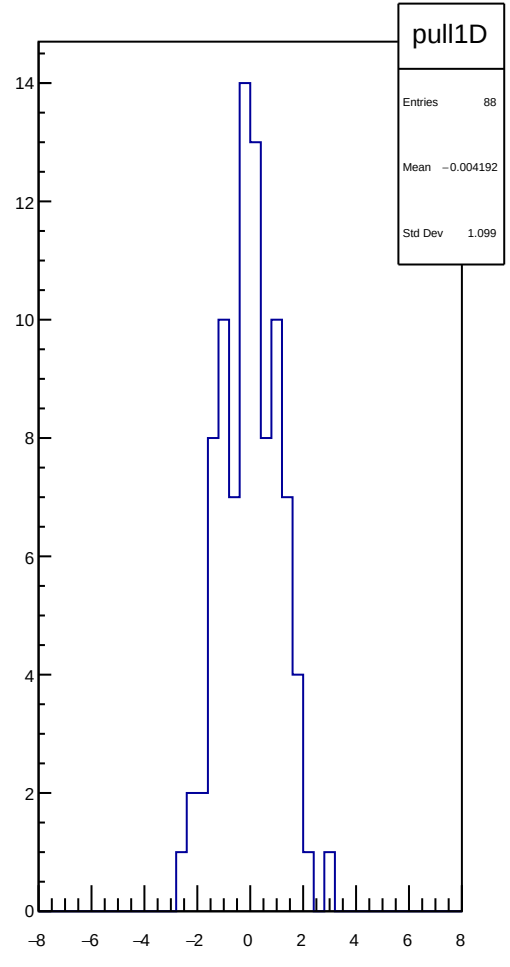

dit_asym_at2_dd_rms vs run
χ² / ndf 732.1 / 87
p0 1787 ± 1.384
1900
1850
1800
1750
1700

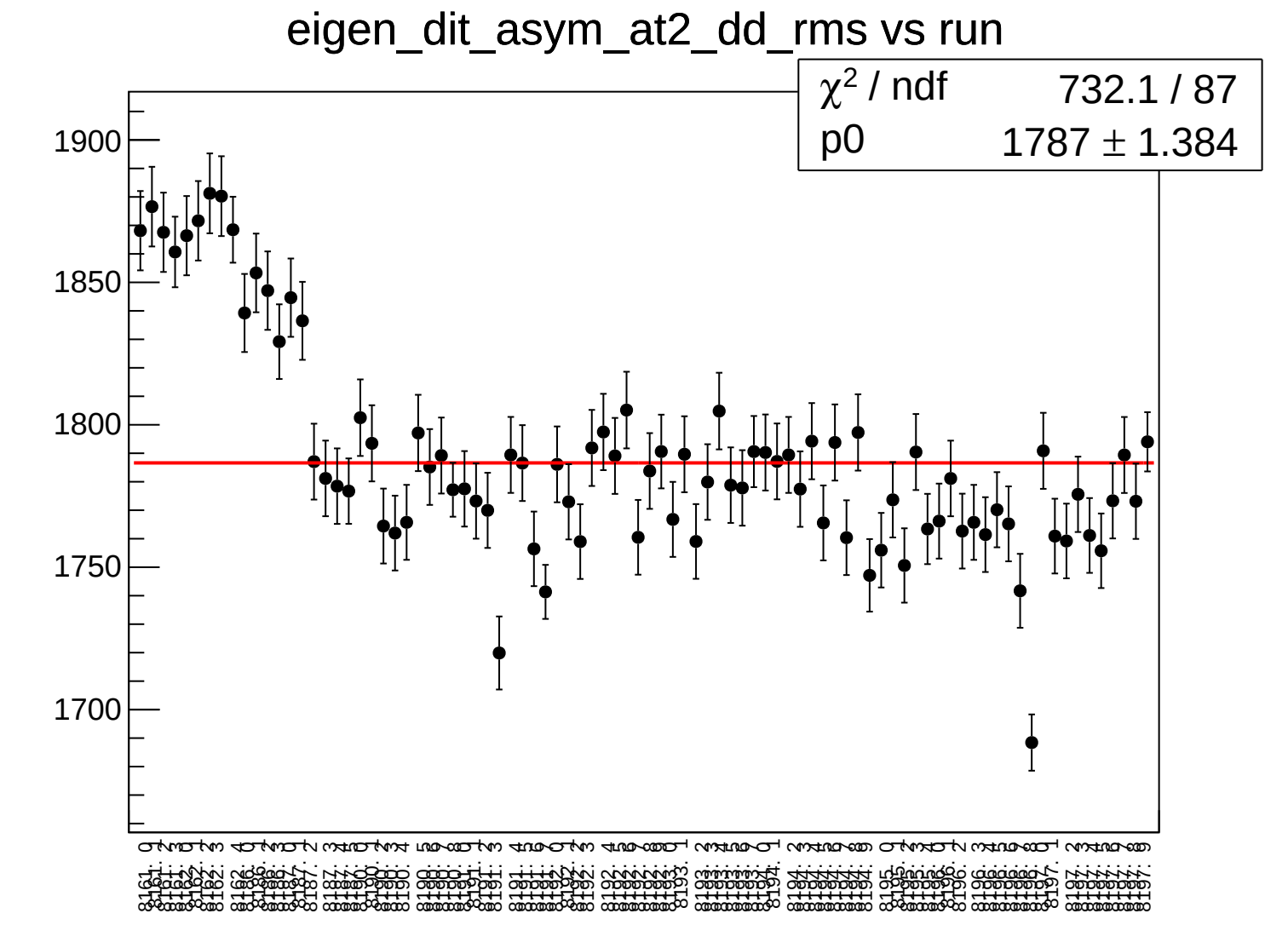

asym_at2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.82 / 87
p0 6010 ± 2917
100
50
0
−50
−100
pull
Entries 88
Mean 3110
Std Dev 0
2
1
0
−1
−2

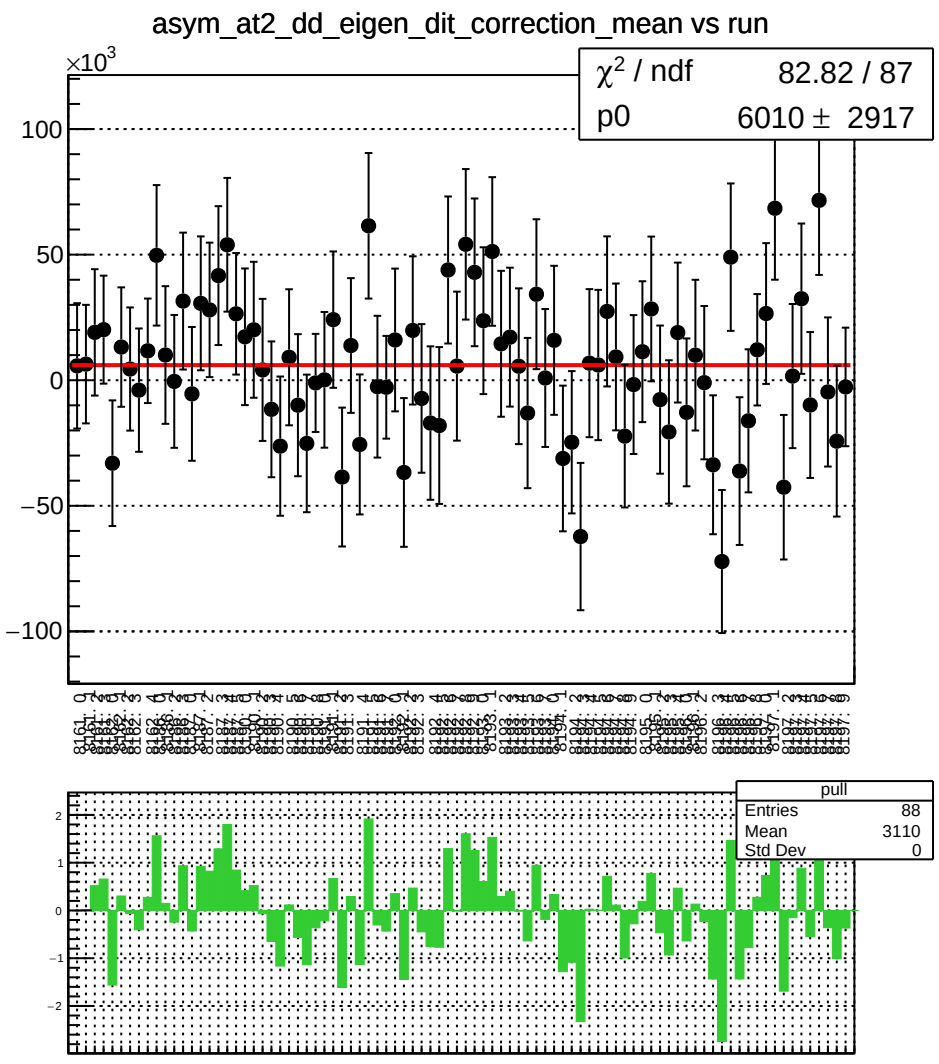

pull1D
Entries 88
Mean −0.001066
Std Dev 0.9701
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

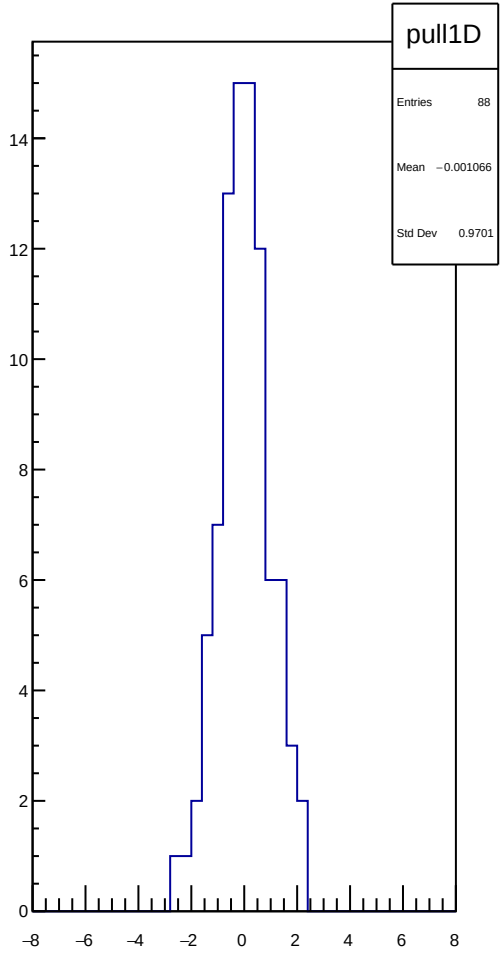

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 6647 / 87
p0 2658 ± 2.063
3000
2900
2800
2700
2600
2500
2400
2300
2200

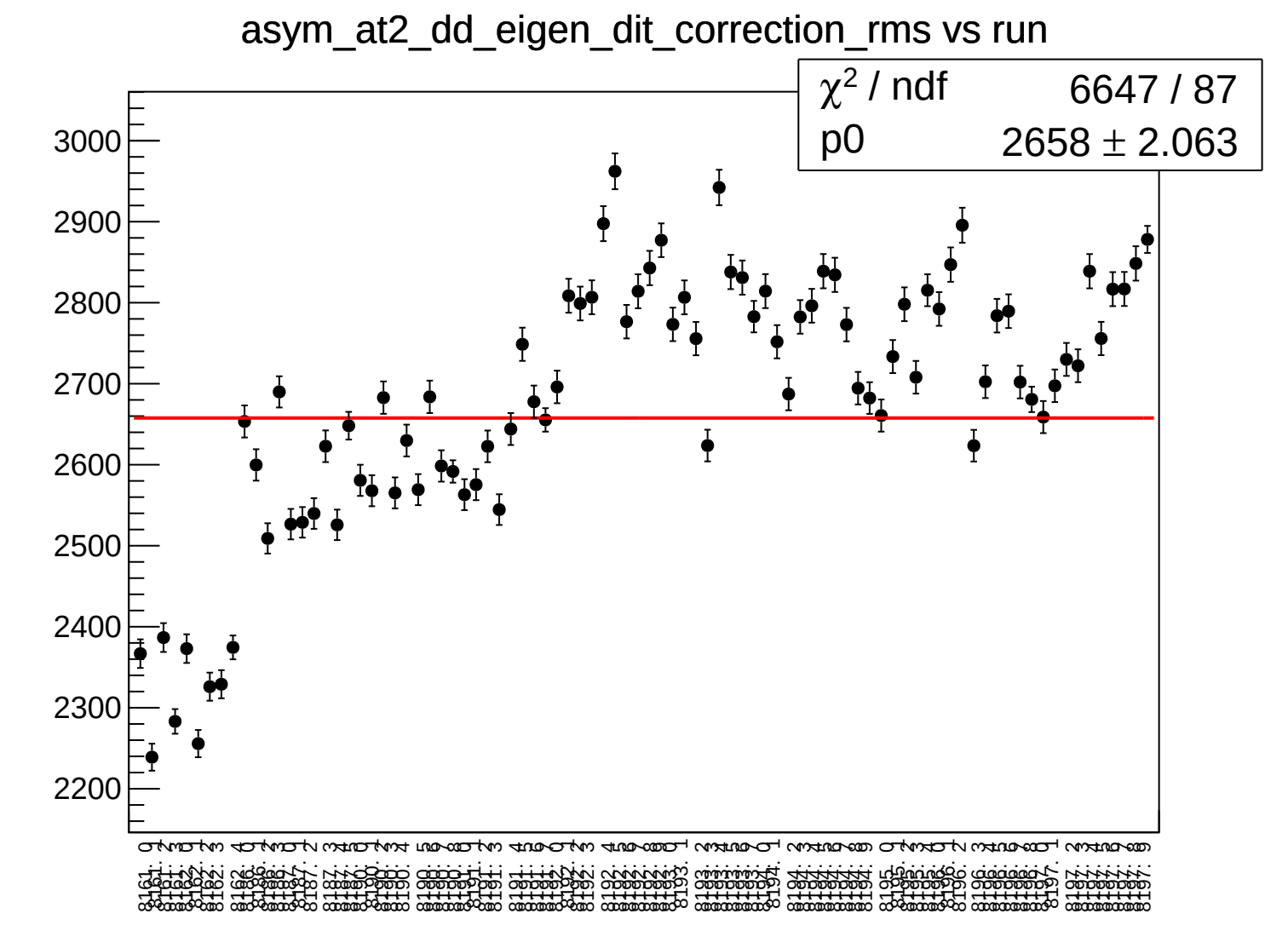

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 106.3 / 87
p0 −904.2 ± 1957
pull
Entries 88
Mean 104.6
Std Dev 0

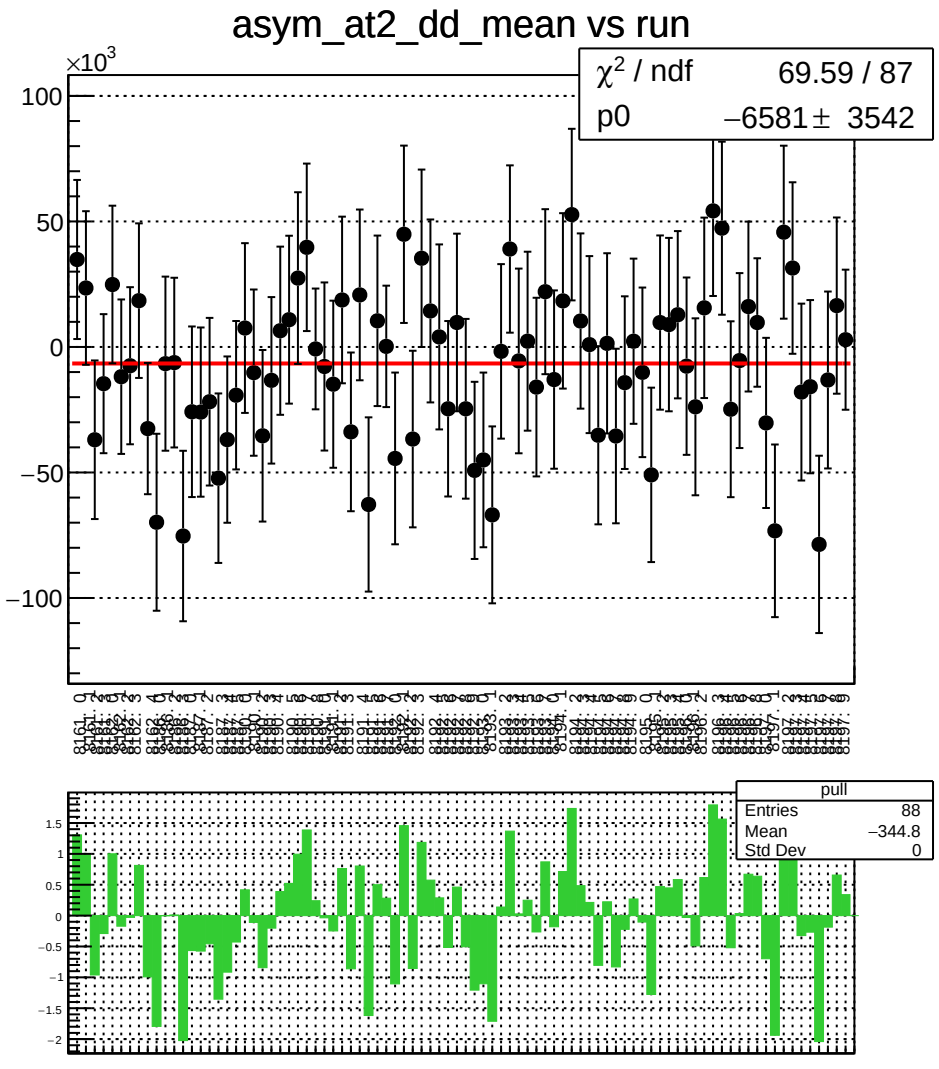

pull1D
Entries 88
Mean −0.004192
Std Dev 1.099

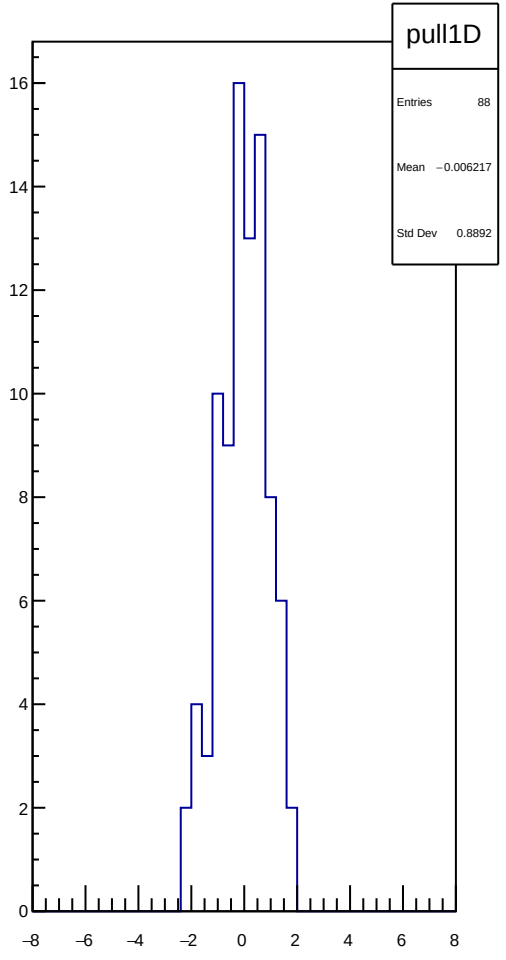

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 732.1 / 87
p0 1787 ± 1.384
1900
1850
1800
1750
1700

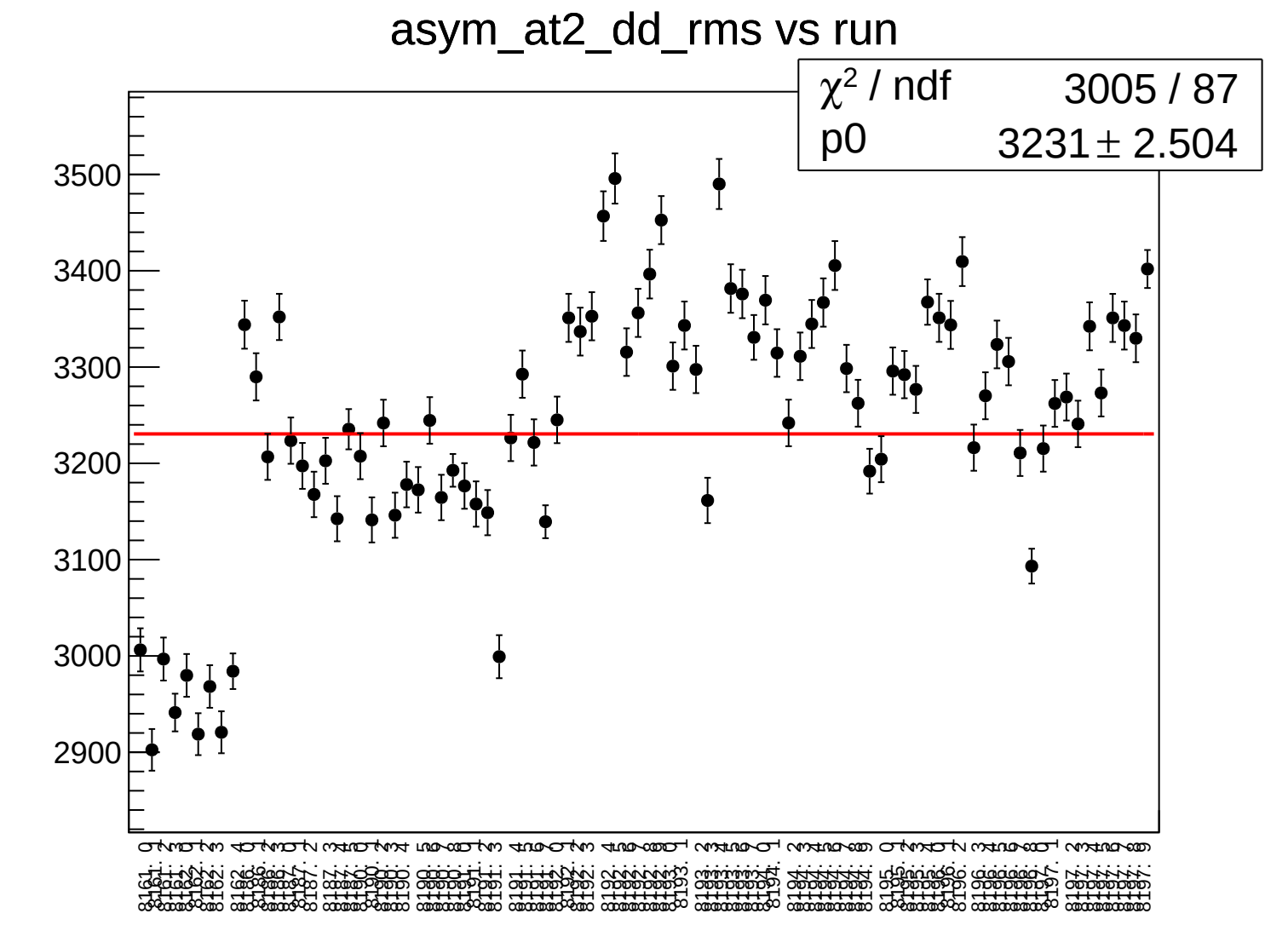

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.82 / 87
p0 6010 ± 2917
100
50
0
−50
−100
pull
Entries 88
Mean 3110
Std Dev 0
2
1
0
−1
−2

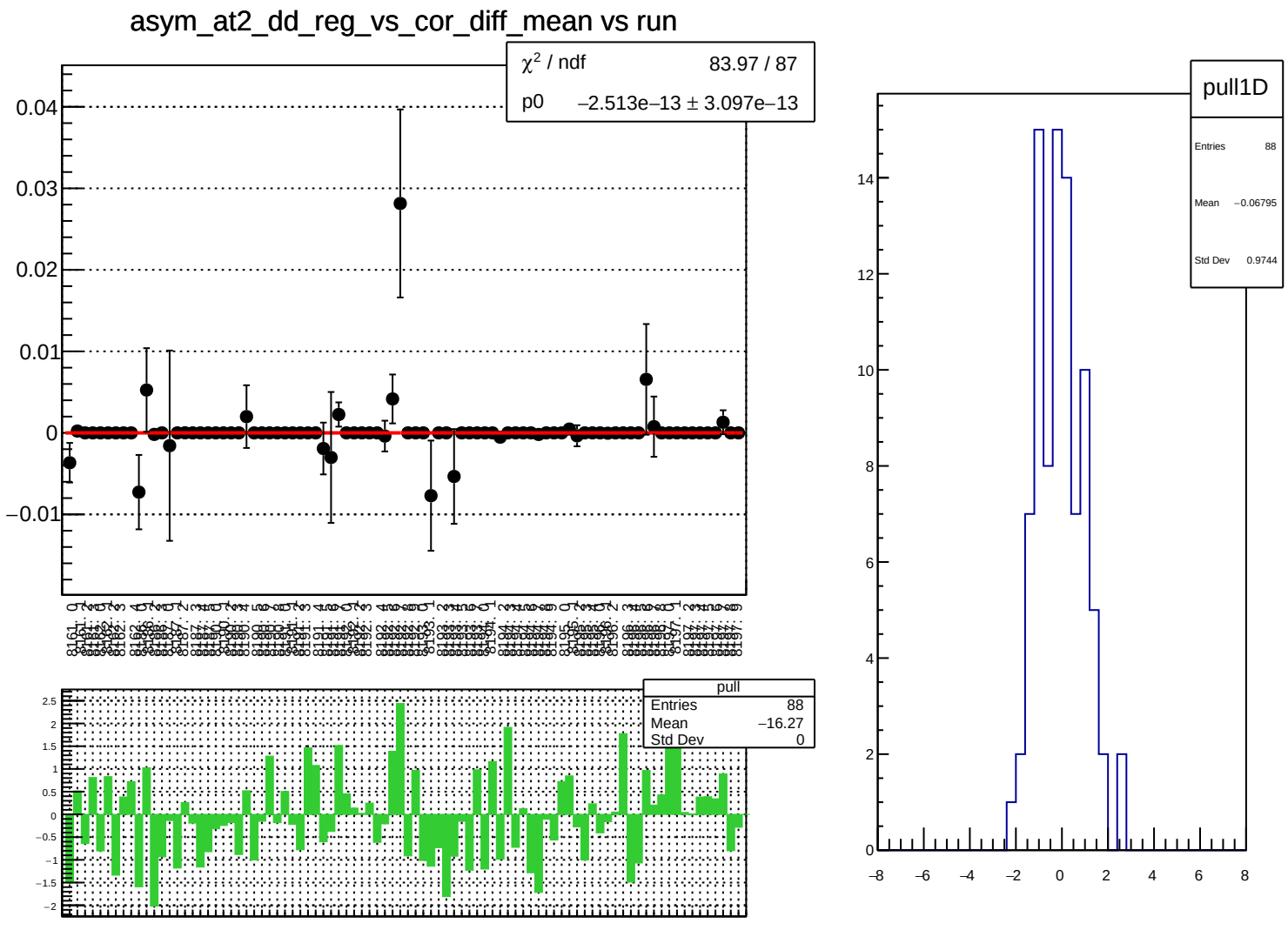

pull1D
Entries 88
Mean −0.001066
Std Dev 0.9701
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

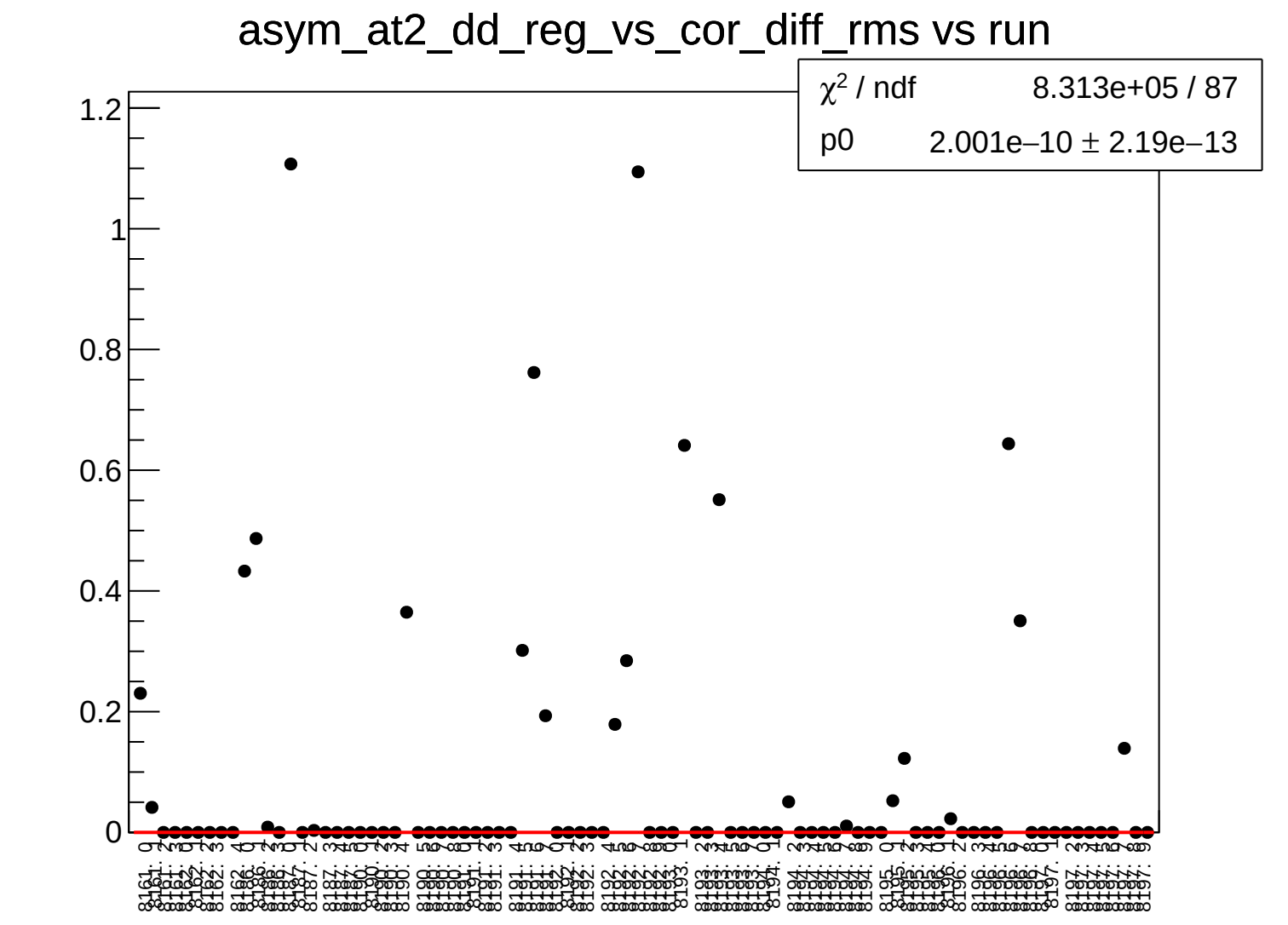

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6647 / 87
p0 2658 ± 2.063
3000
2900
2800
2700
2600
2500
2400
2300
2200

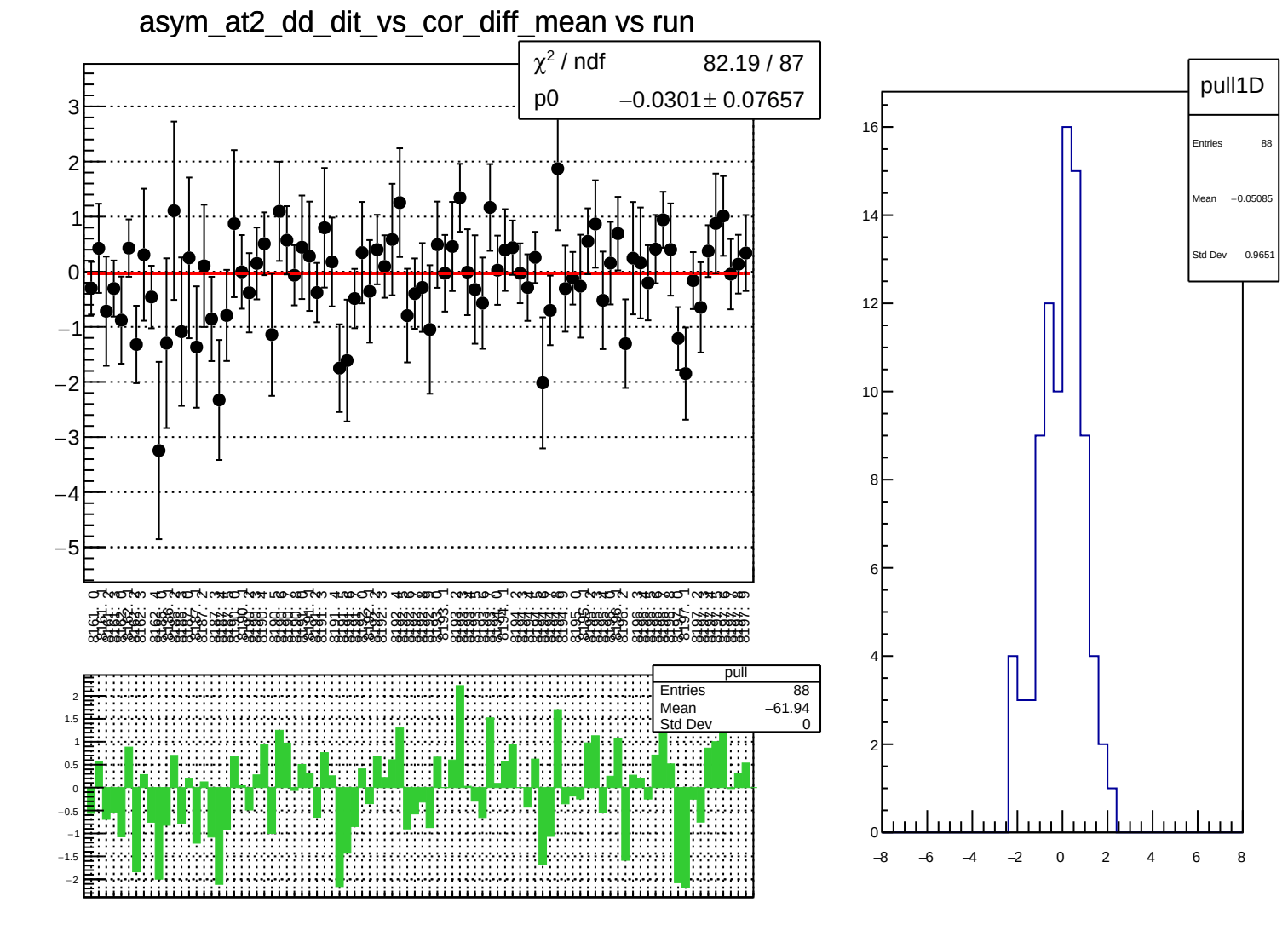

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 69.59 / 87
p0 −6581 ± 3542
100
50
0
−50
−100
pull
Entries 88
Mean −344.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

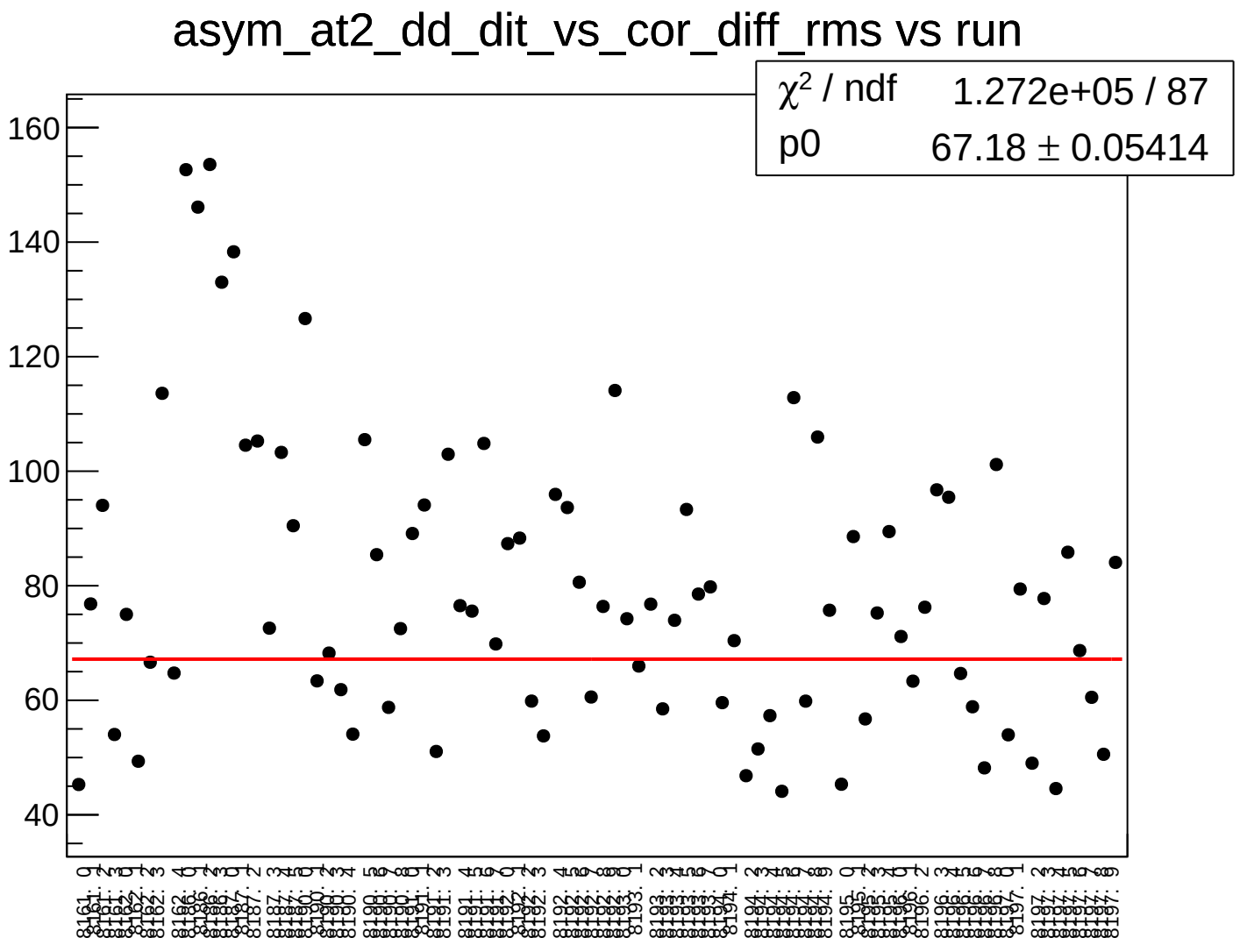

pull1D
Entries 88
Mean −0.006217
Std Dev 0.8892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

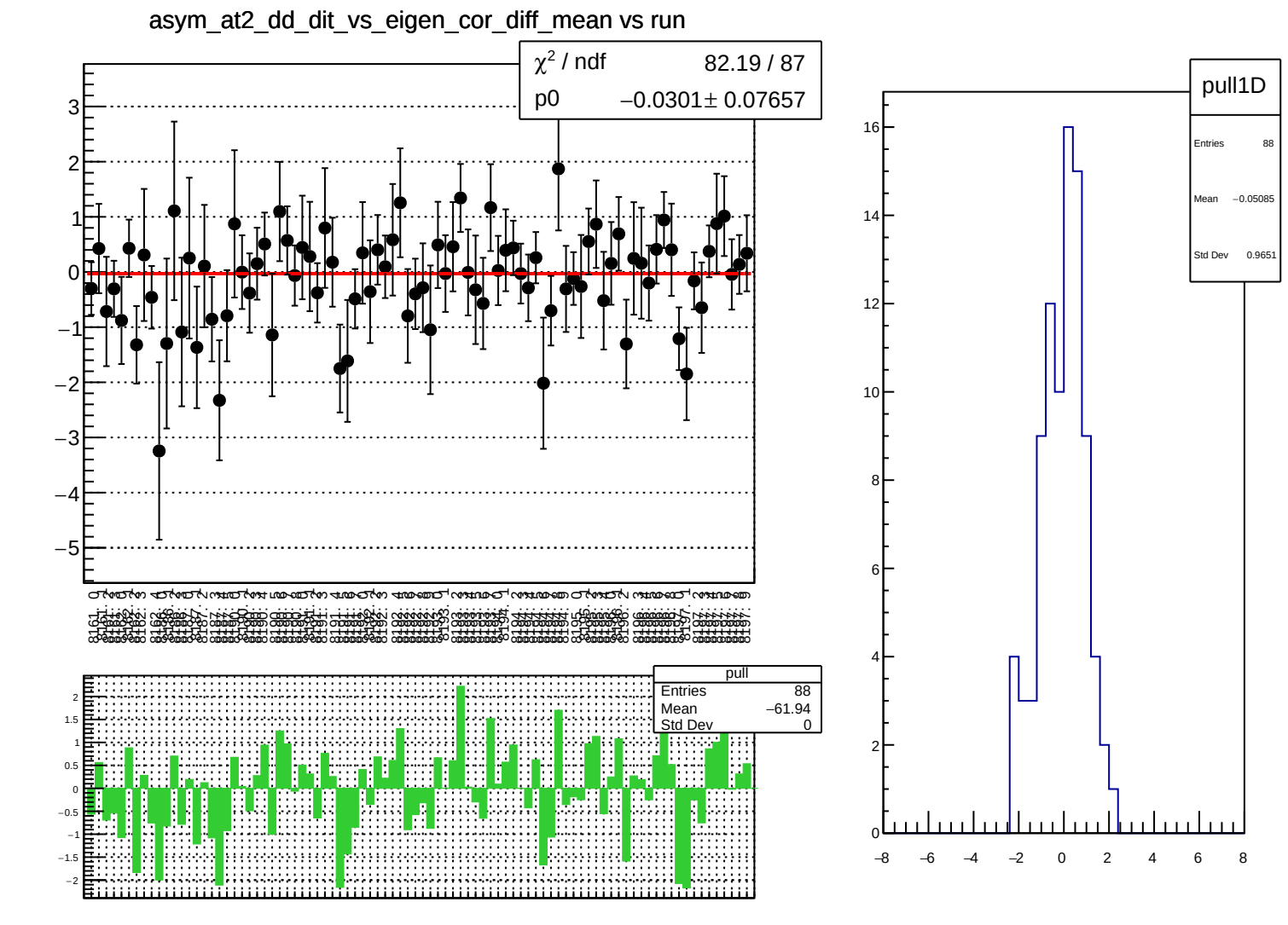

asym_at2_dd_rms vs run
χ² / ndf 3005 / 87
p0 3231 ± 2.504
3500
3400
3300
3200
3100
3000
2900

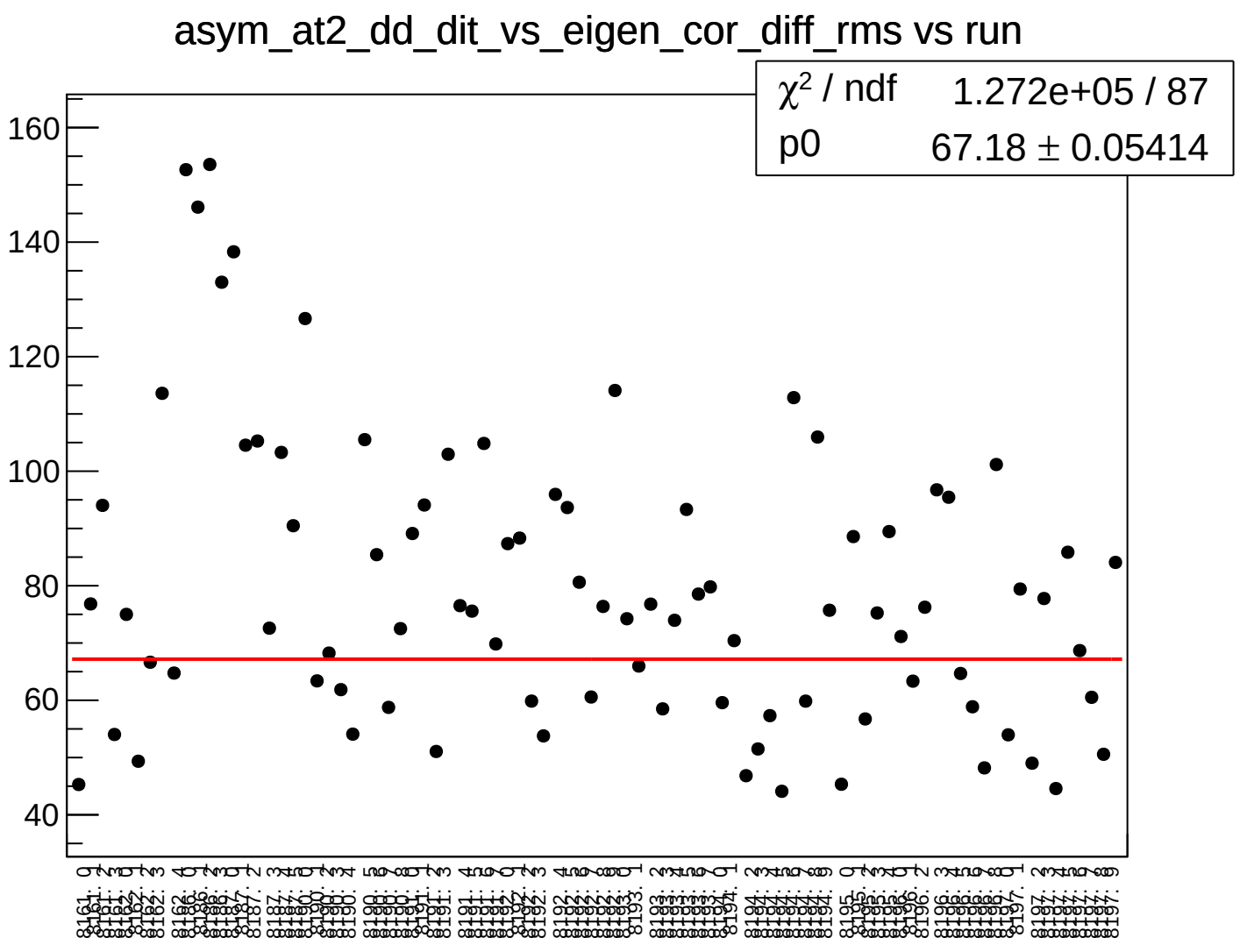

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.97 / 87
p0 −2.513e−13 ± 3.097e−13
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean −16.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.06795
Std Dev 0.9744
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

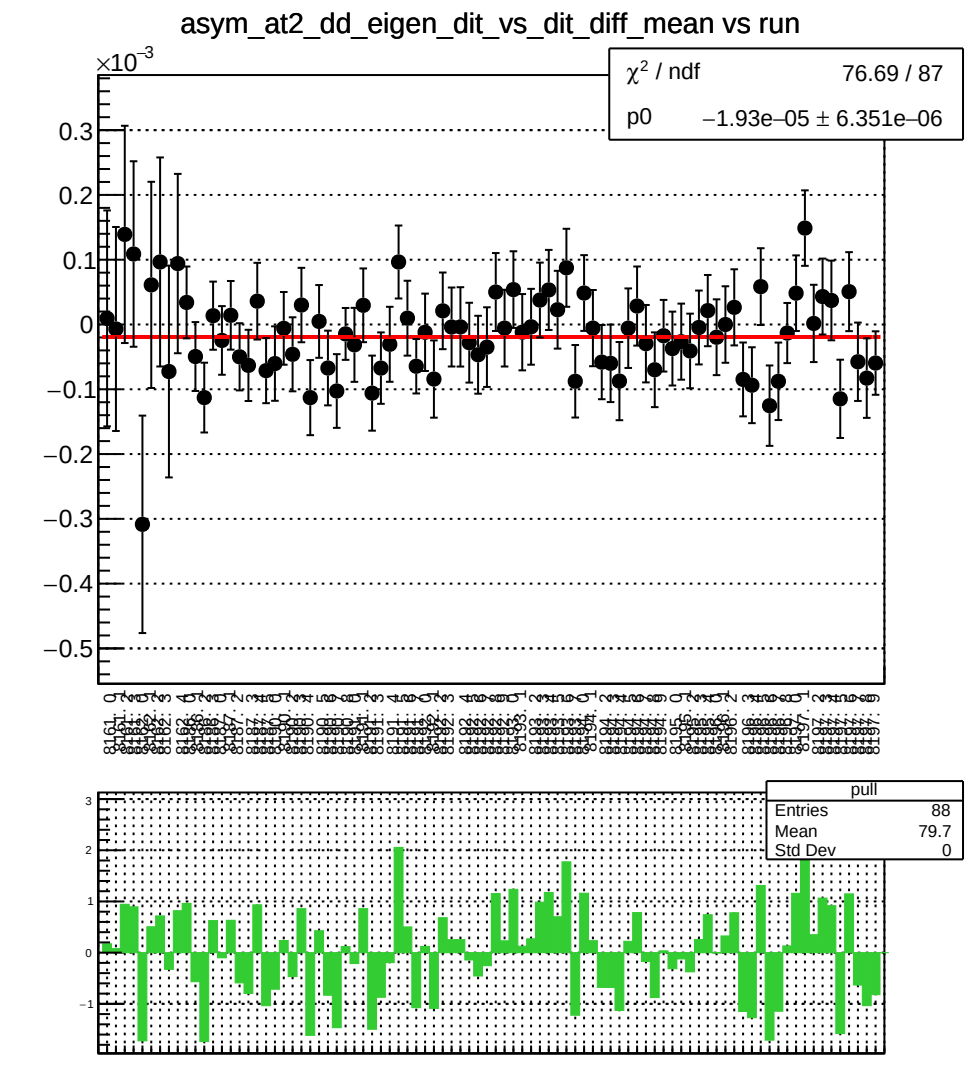

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.313e+05 / 87
p0 2.001e−10 ± 2.19e−13
1.2
1
0.8
0.6
0.4
0.2
0

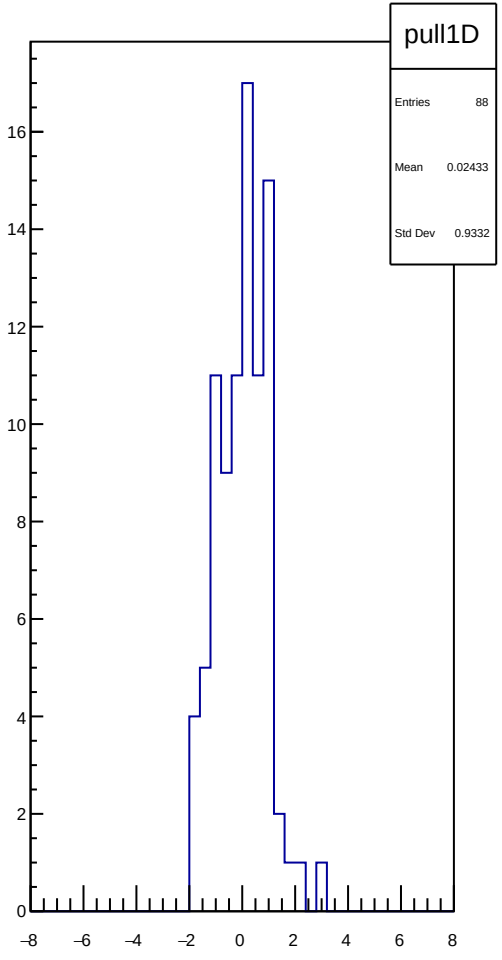

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.19 / 87
p0 −0.0301± 0.07657
pull
Entries 88
Mean −61.94
Std Dev 0
pull1D
Entries 88
Mean −0.05085
Std Dev 0.9651

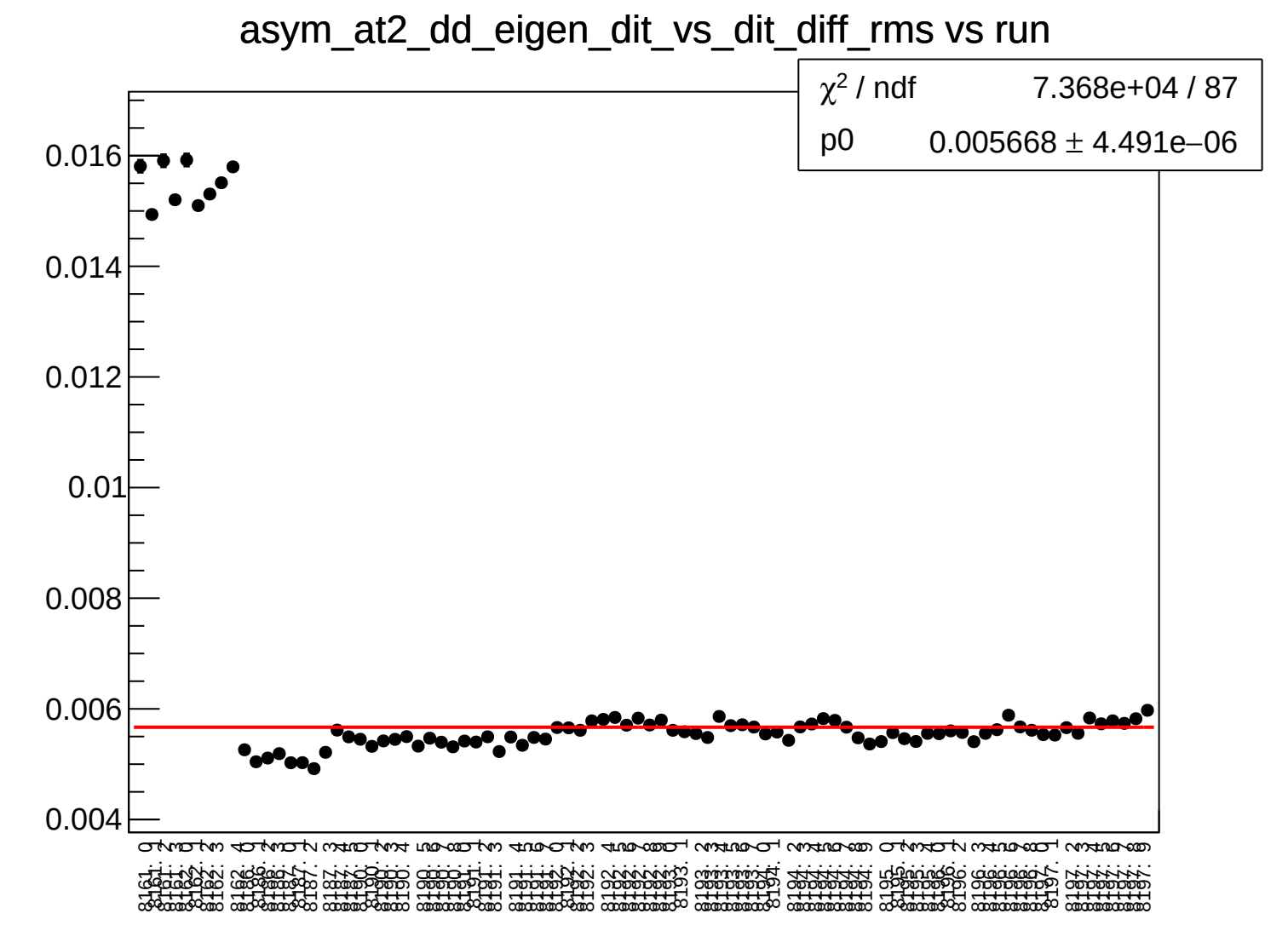

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 87
p0 67.18 ± 0.05414
160
140
120
100
80
60
40

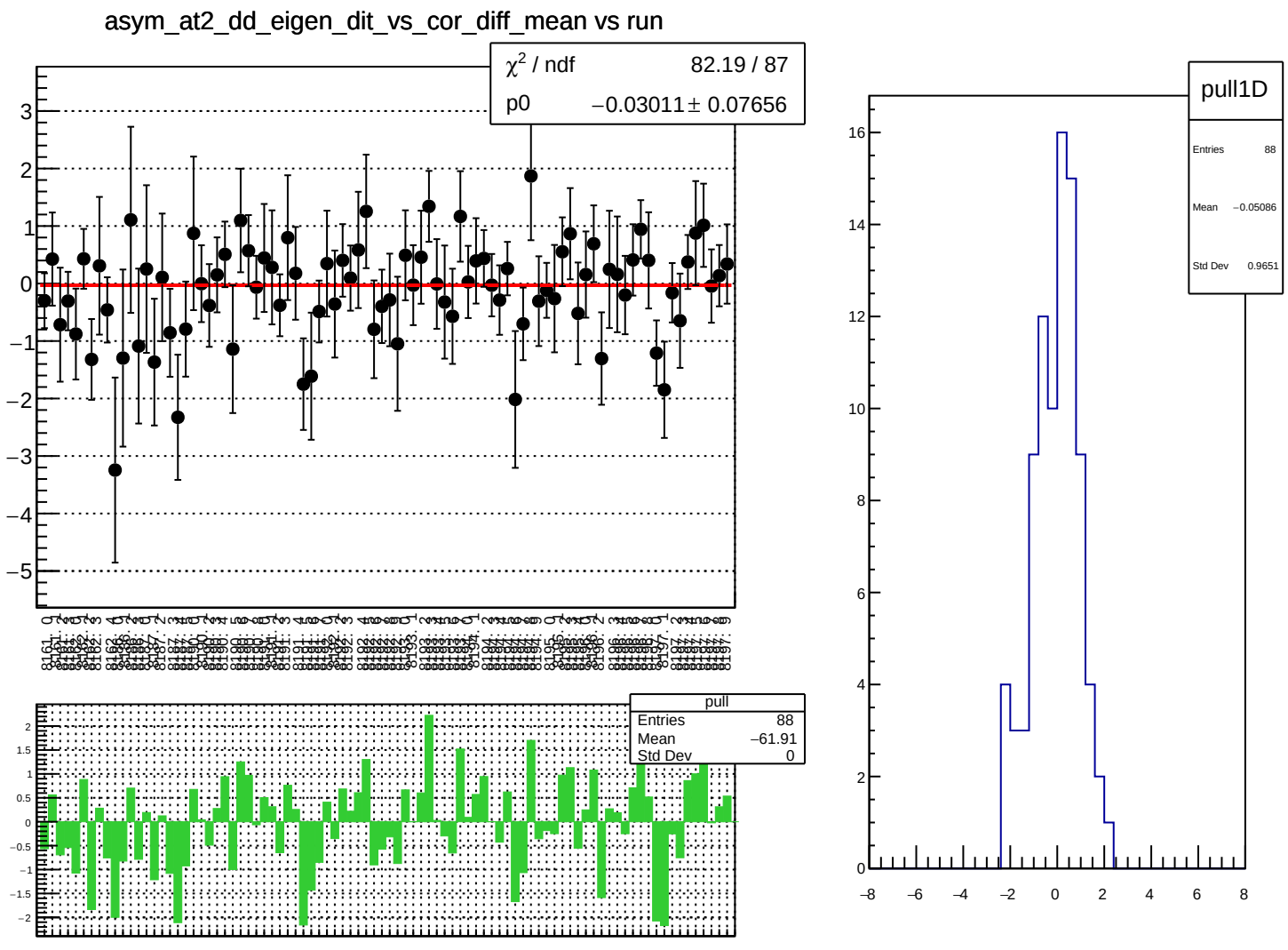

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.19 / 87
p0 −0.0301± 0.07657
pull
Entries 88
Mean −61.94
Std Dev 0
pull1D
Entries 88
Mean −0.05085
Std Dev 0.9651

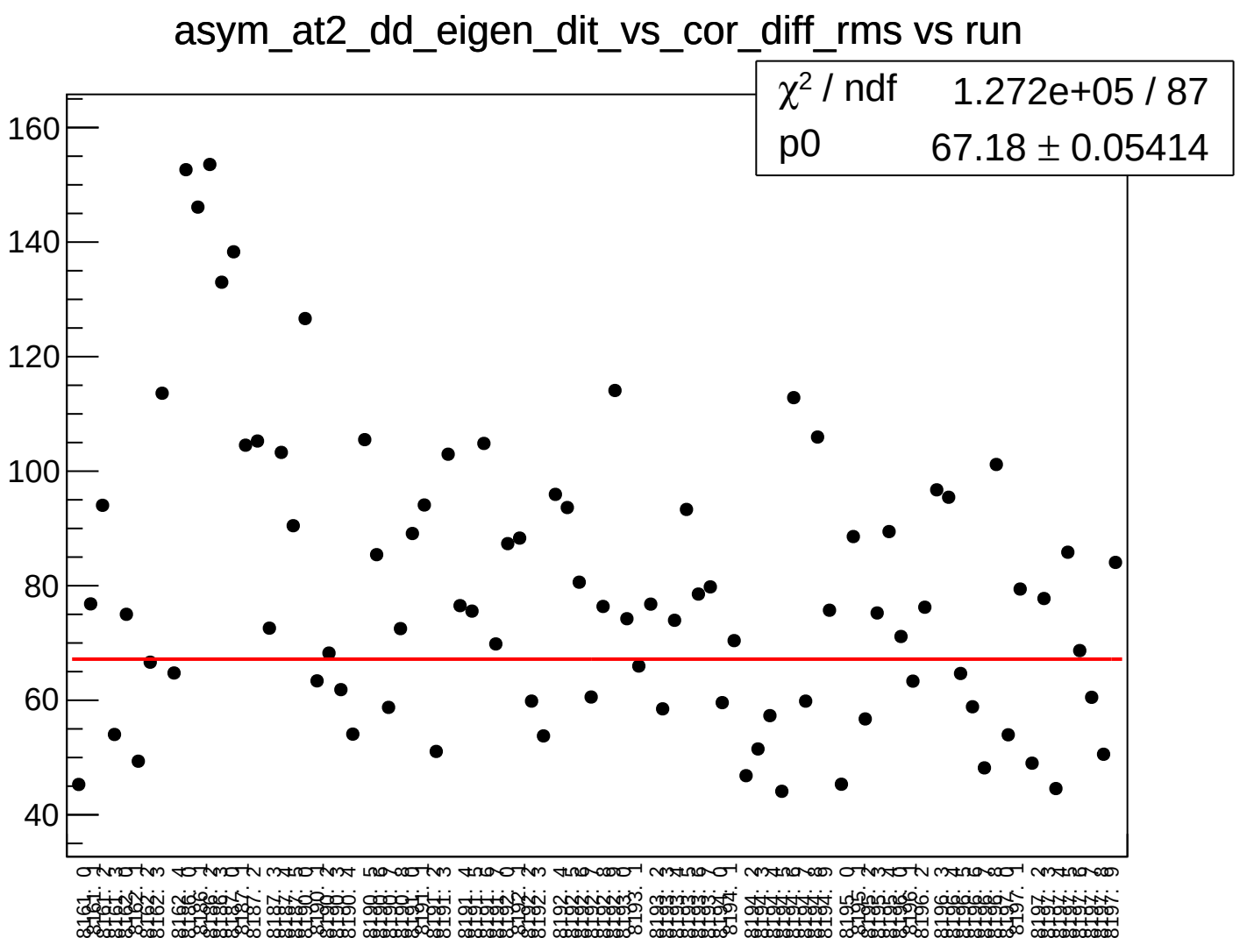

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 87
p0 67.18 ± 0.05414
160
140
120
100
80
60
40


asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.69 / 87
p0 −1.93e−05 ± 6.351e−06
pull
Entries 88
Mean 79.7
Std Dev 0

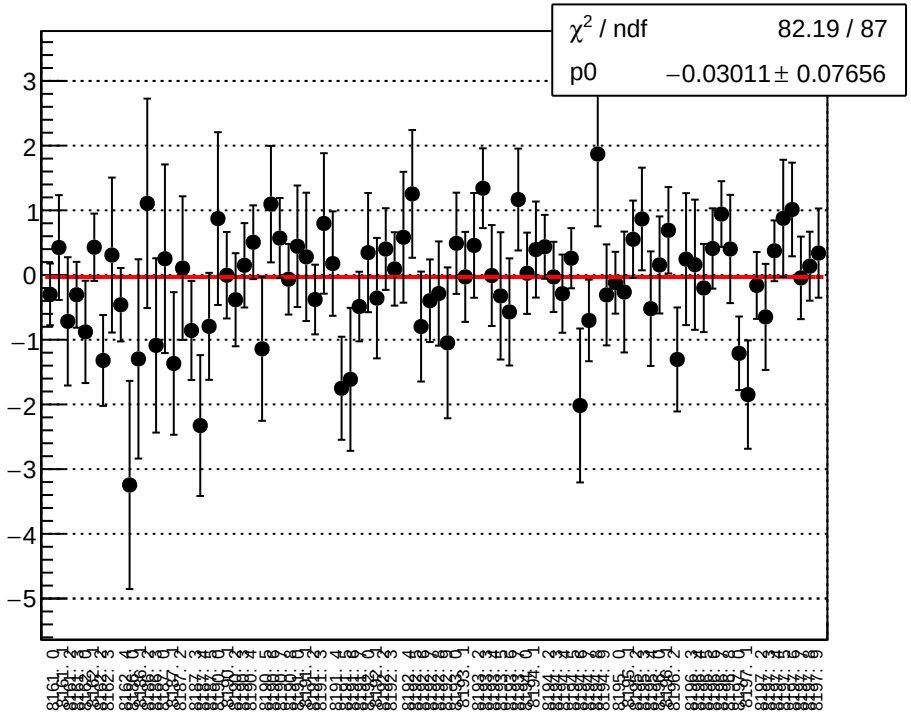

pull1D
Entries 88
Mean 0.02433
Std Dev 0.9332

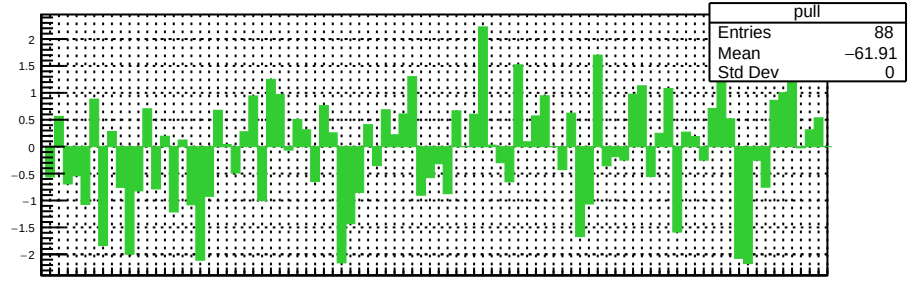

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.368e+04 / 87
p0 0.005668 ± 4.491e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

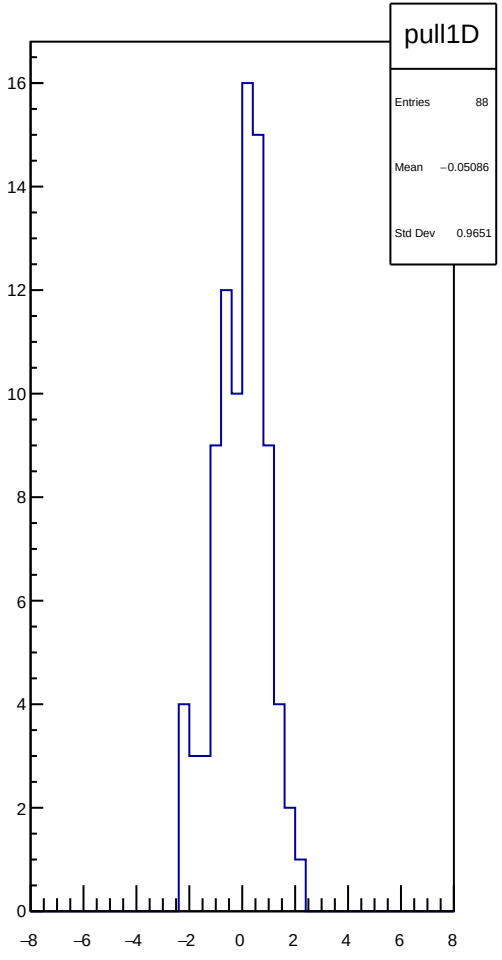

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.19 / 87
p0 −0.03011 ± 0.07656
pull
Entries 88
Mean −61.91
Std Dev 0
pull1D
Entries 88
Mean −0.05086
Std Dev 0.9651

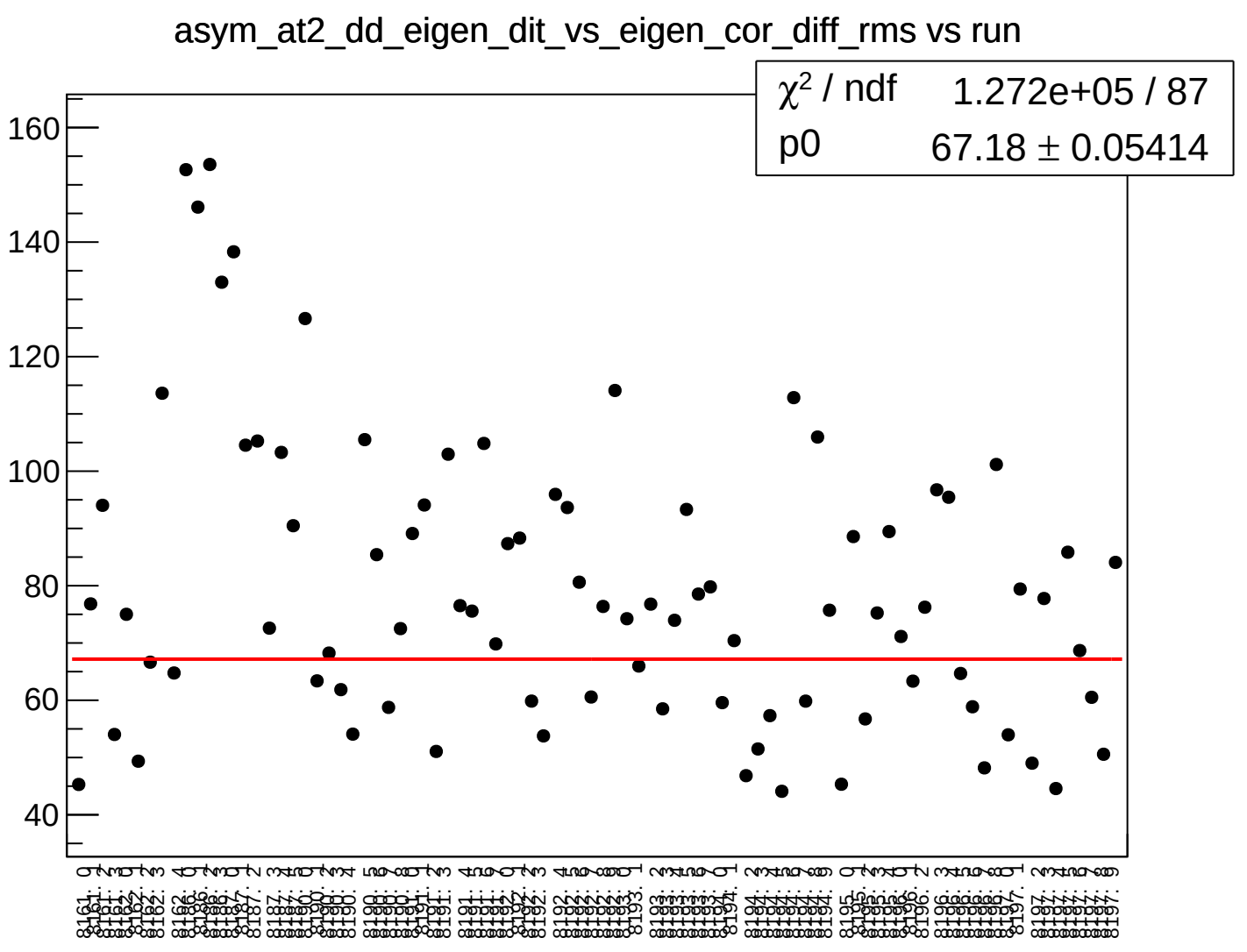

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 87
p0 67.18 ± 0.05414
160
140
120
100
80
60
40

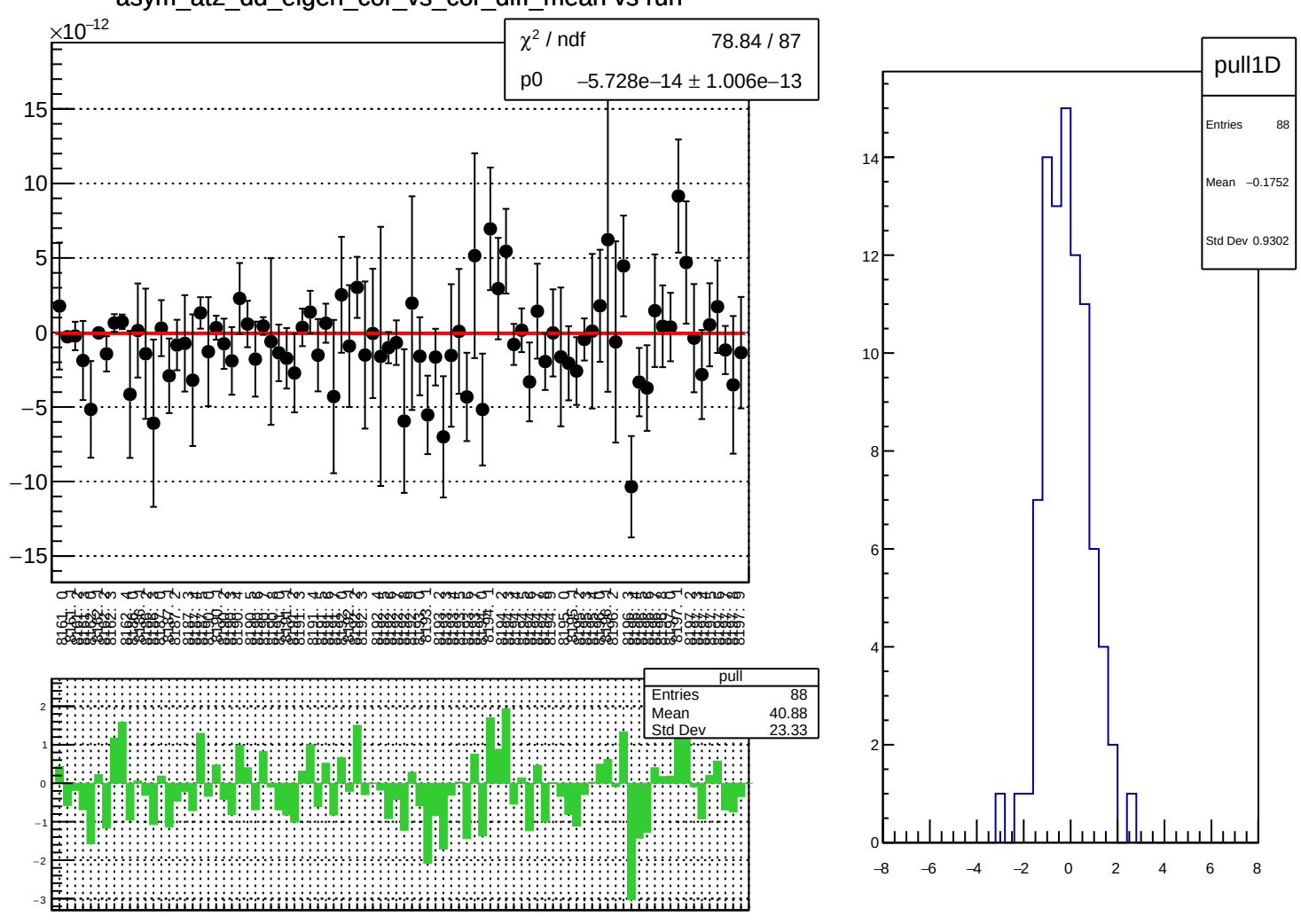
asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

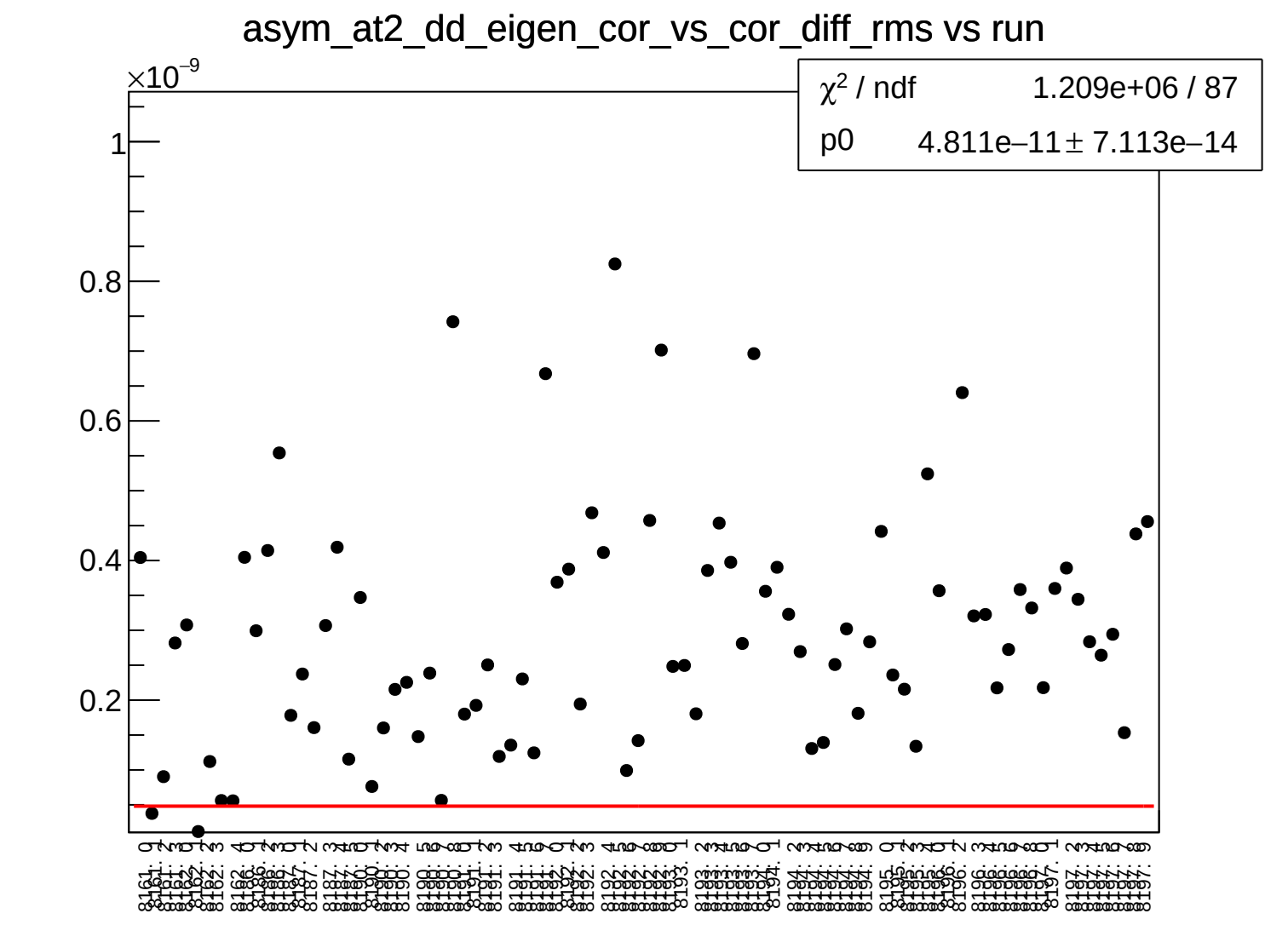


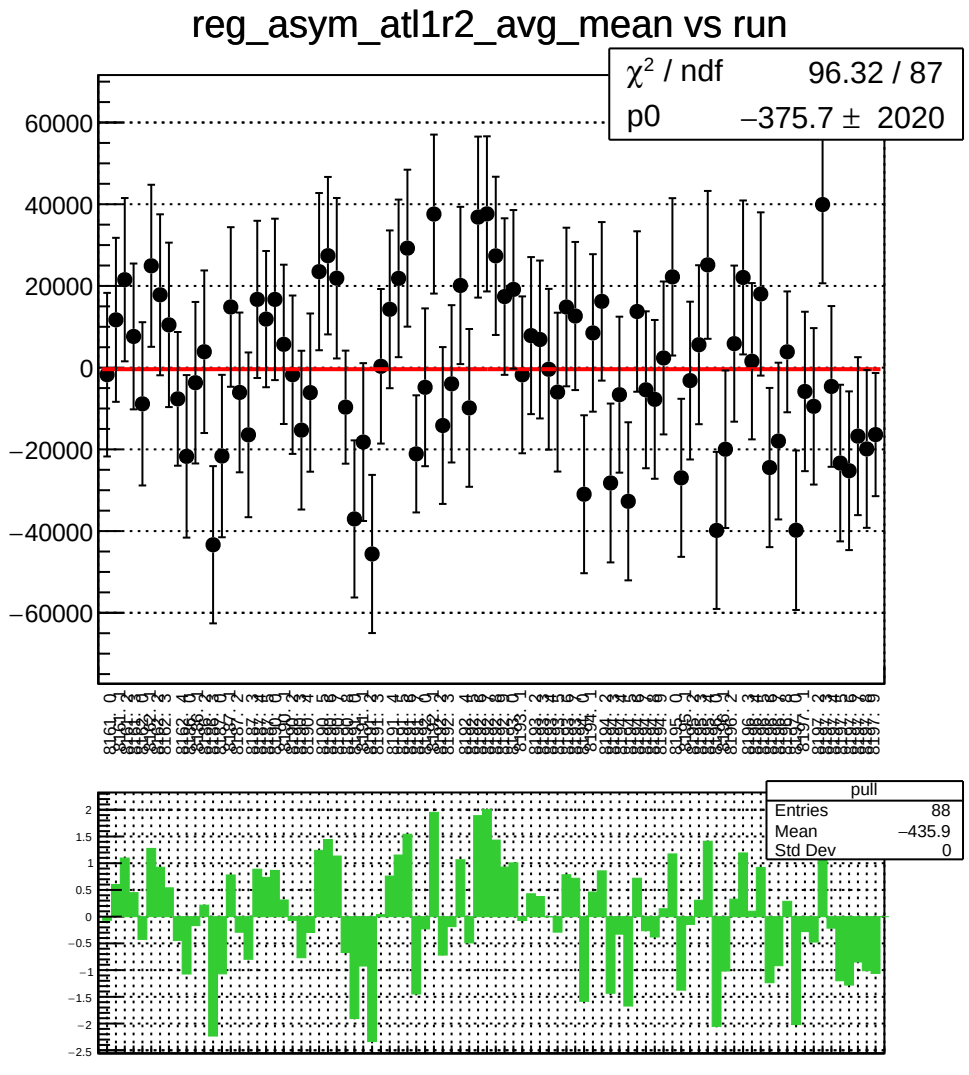


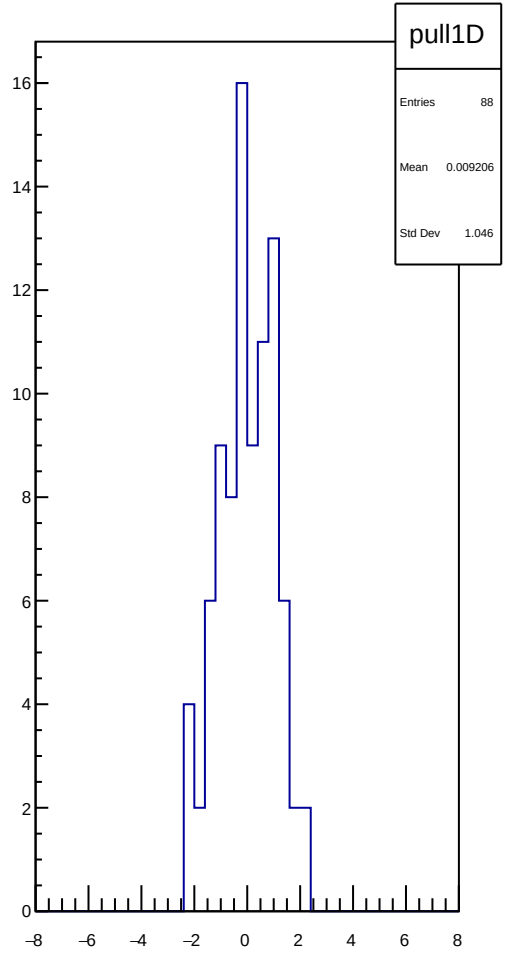


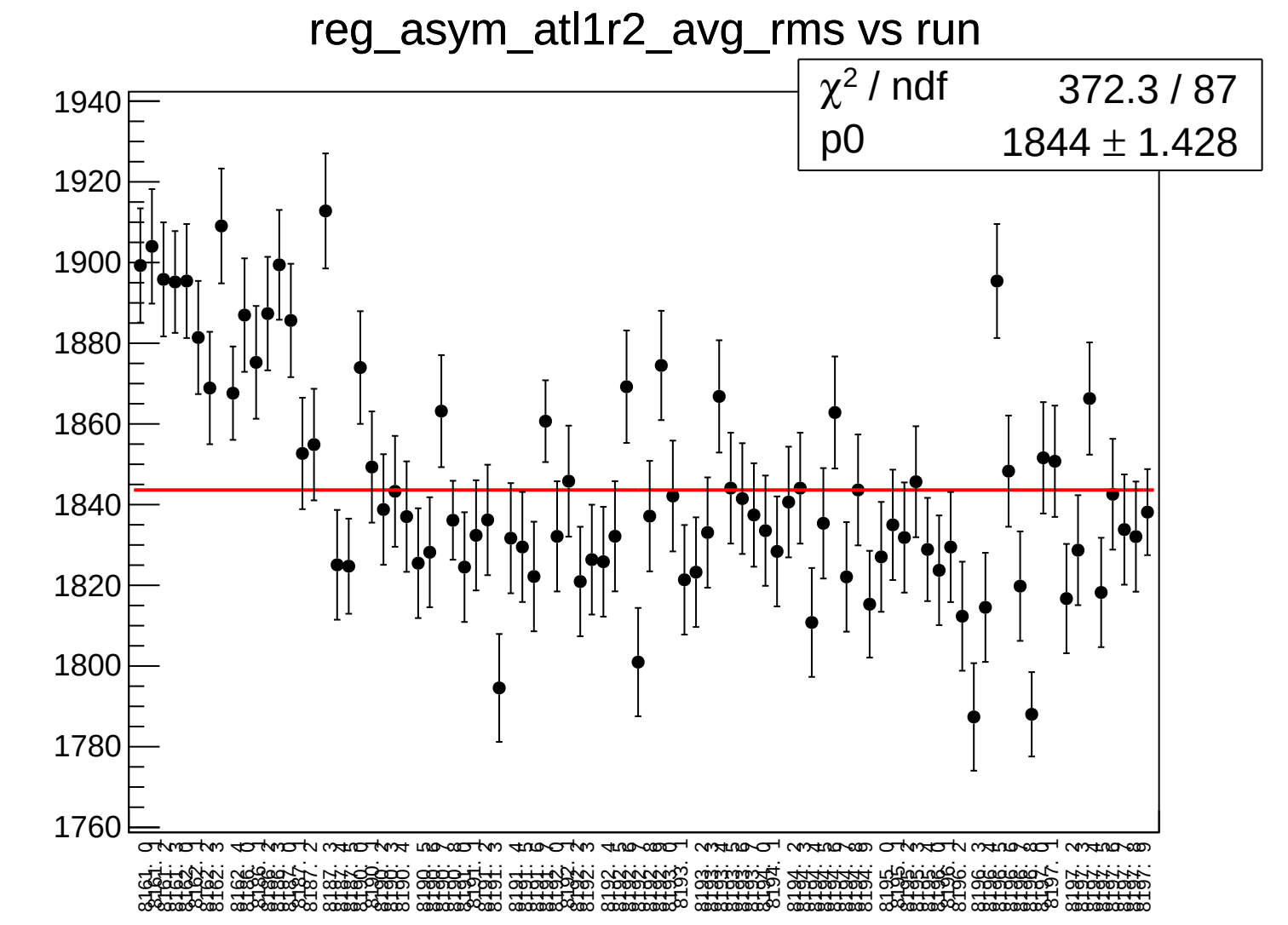

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 87
p0 67.18 ± 0.05414
160
140
120
100
80
60
40

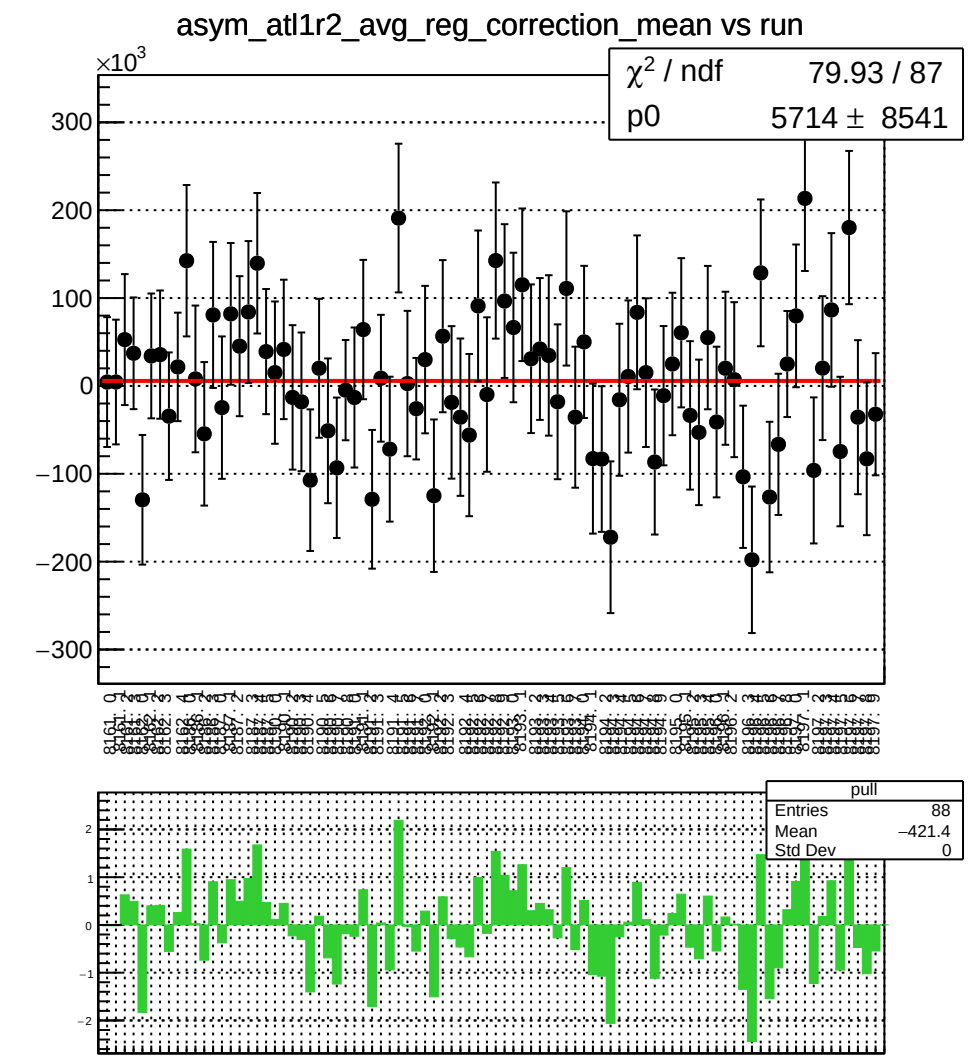

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.84 / 87
p0 −5.728e−14 ± 1.006e−13
15
10
5
0
−5
−10
−15
pull
Entries 88
Mean 40.88
Std Dev 23.33
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1752
Std Dev 0.9302
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

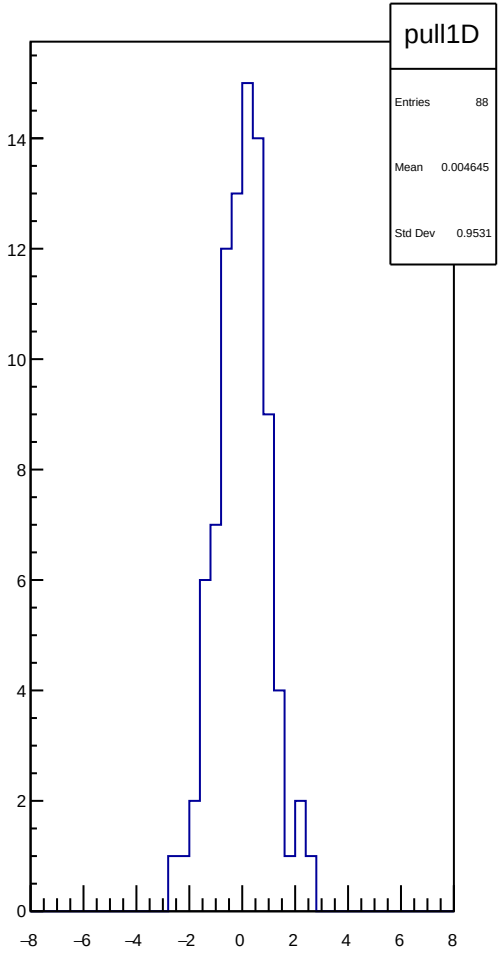

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.209e+06 / 87
p0 4.811e−11 ± 7.113e−14
1
0.8
0.6
0.4
0.2

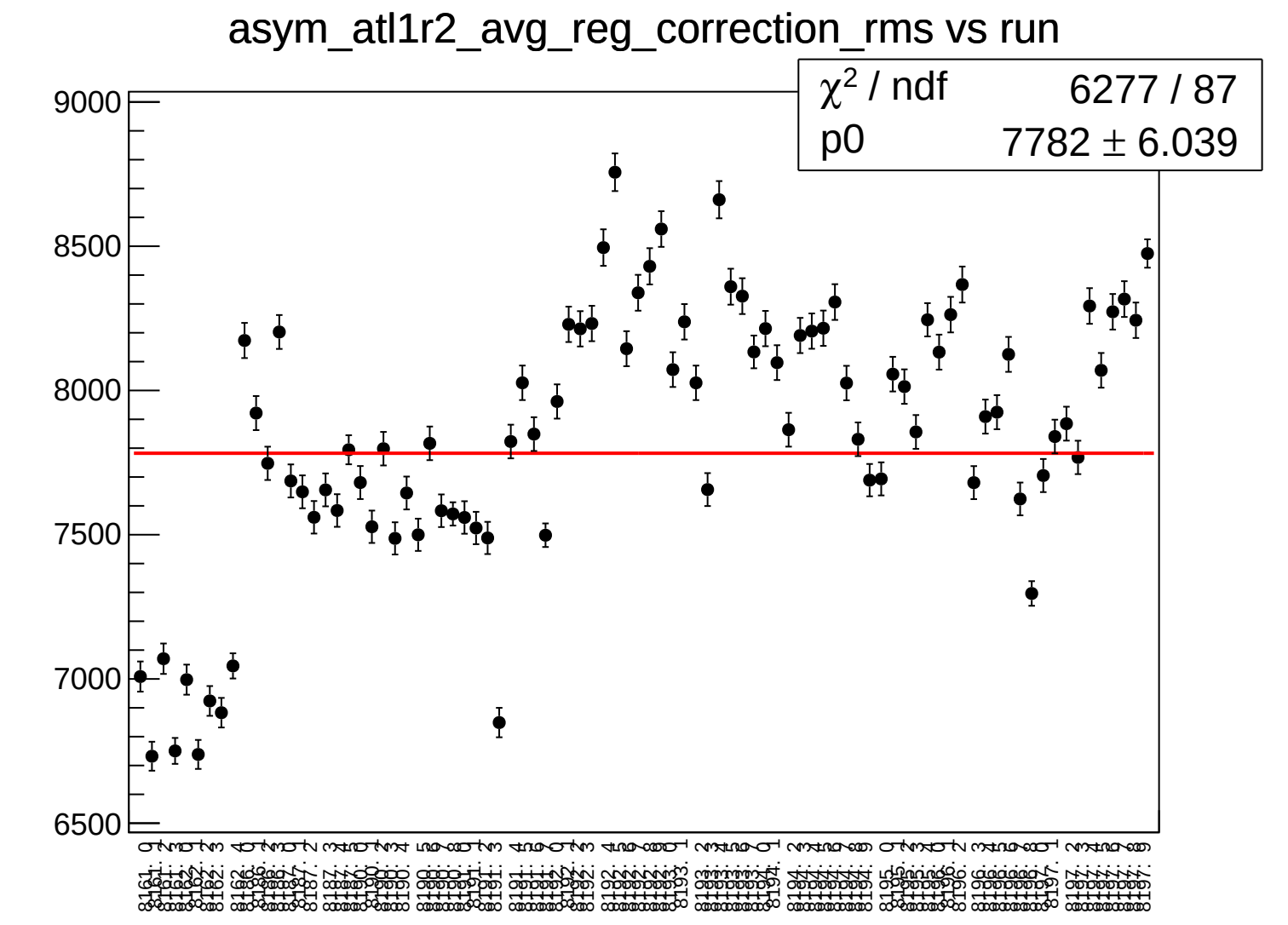

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 96.32 / 87
p0 −375.7 ± 2020
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −435.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

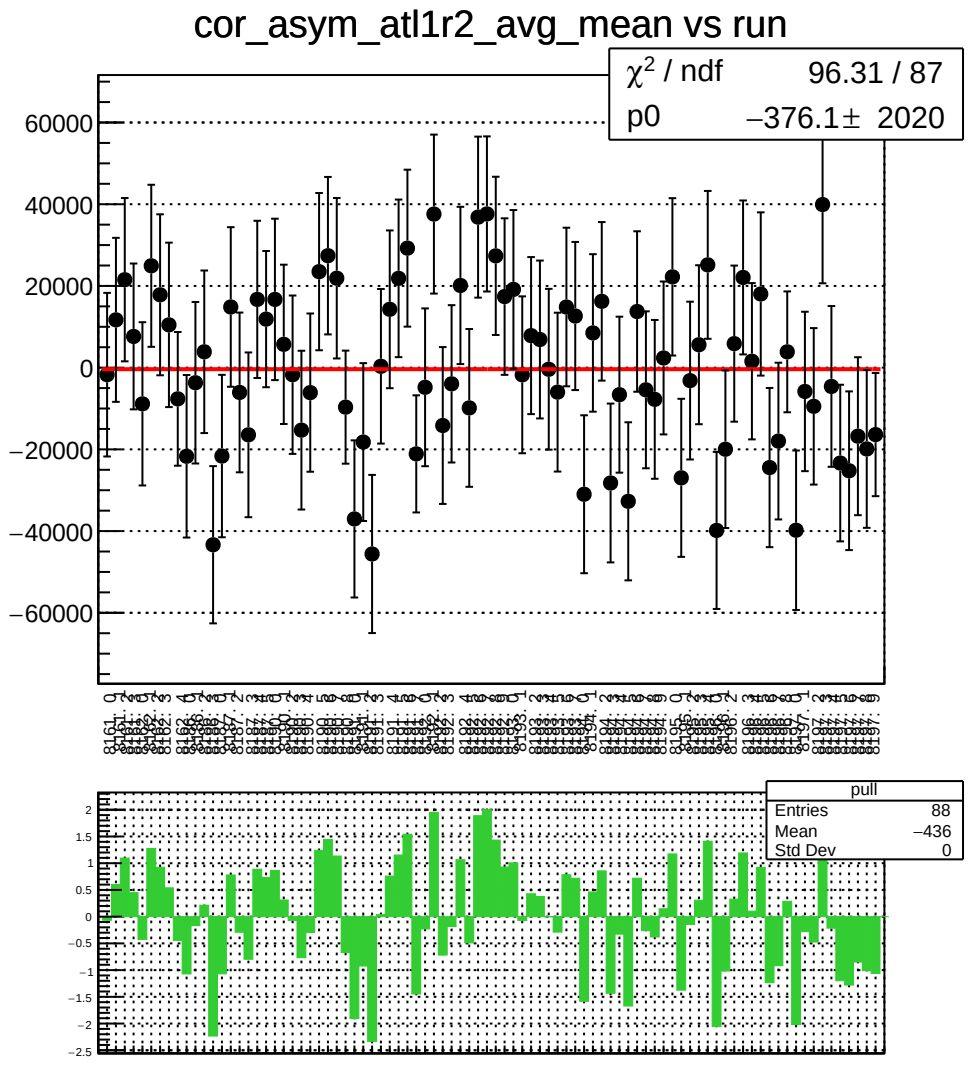

pull1D
Entries 88
Mean 0.009206
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

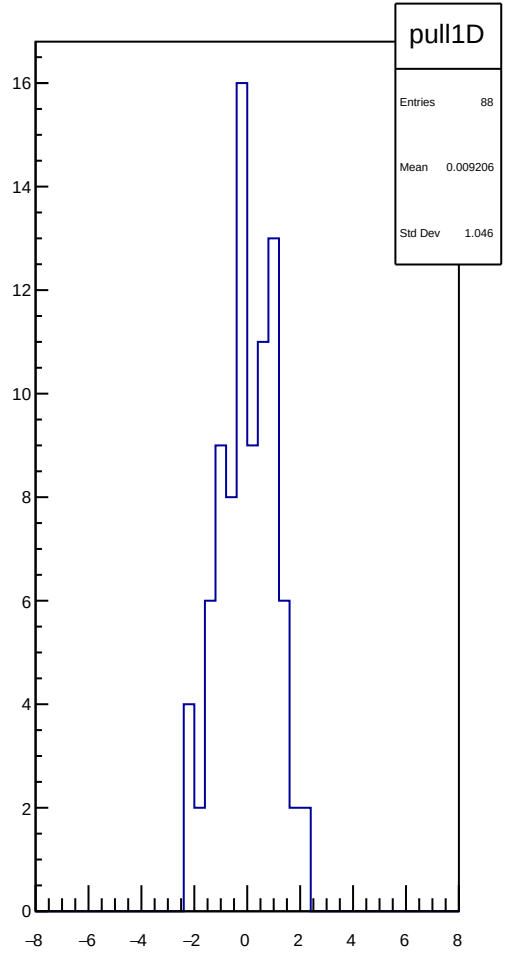

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 372.3 / 87
p0 1844 ± 1.428
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

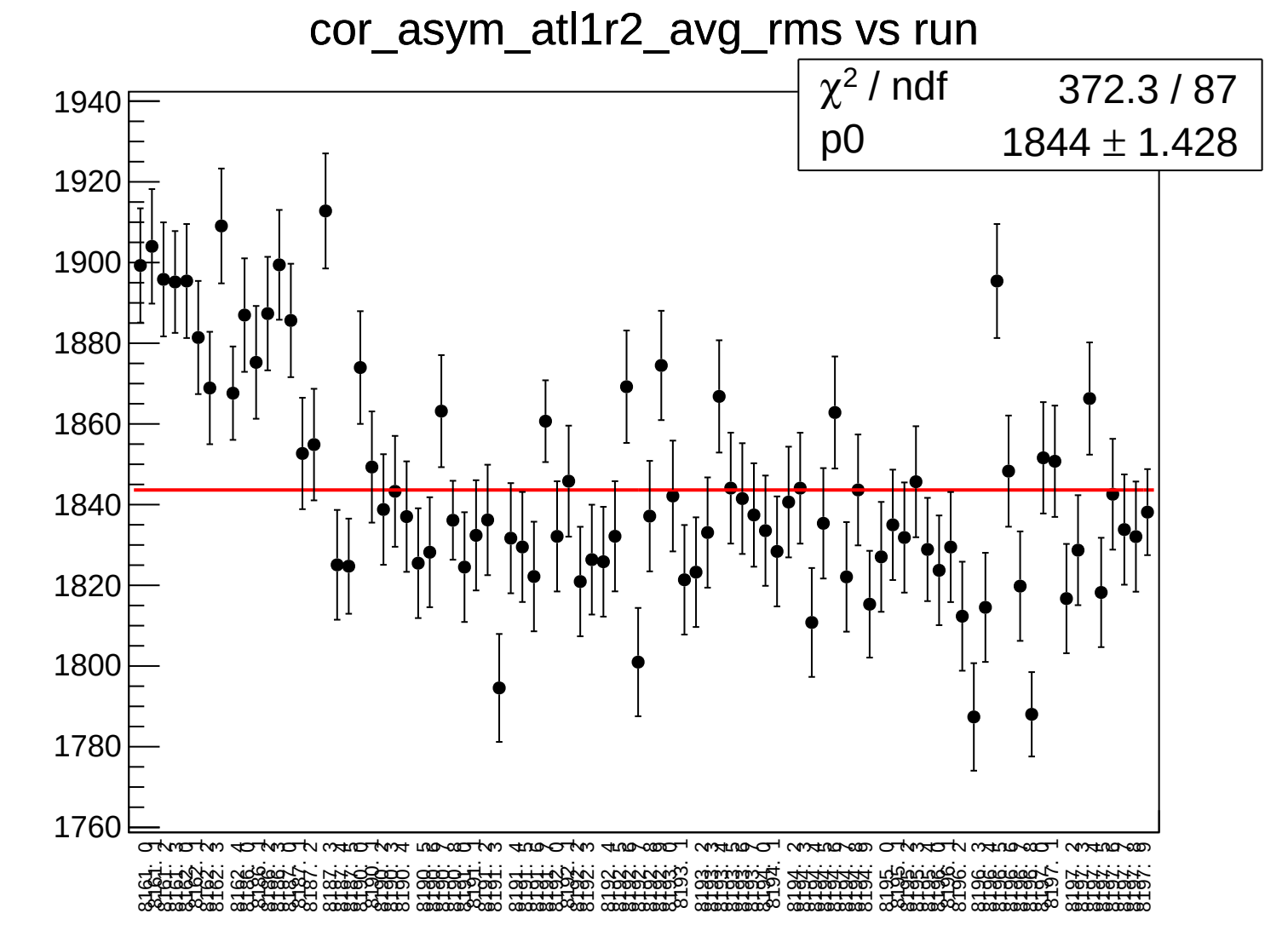

asym_atl1r2_avg_reg_correction_mean vs run
χ² / ndf 79.93 / 87
p0 5714 ± 8541
×10³
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −421.4
Std Dev 0
2
1
0
−1
−2

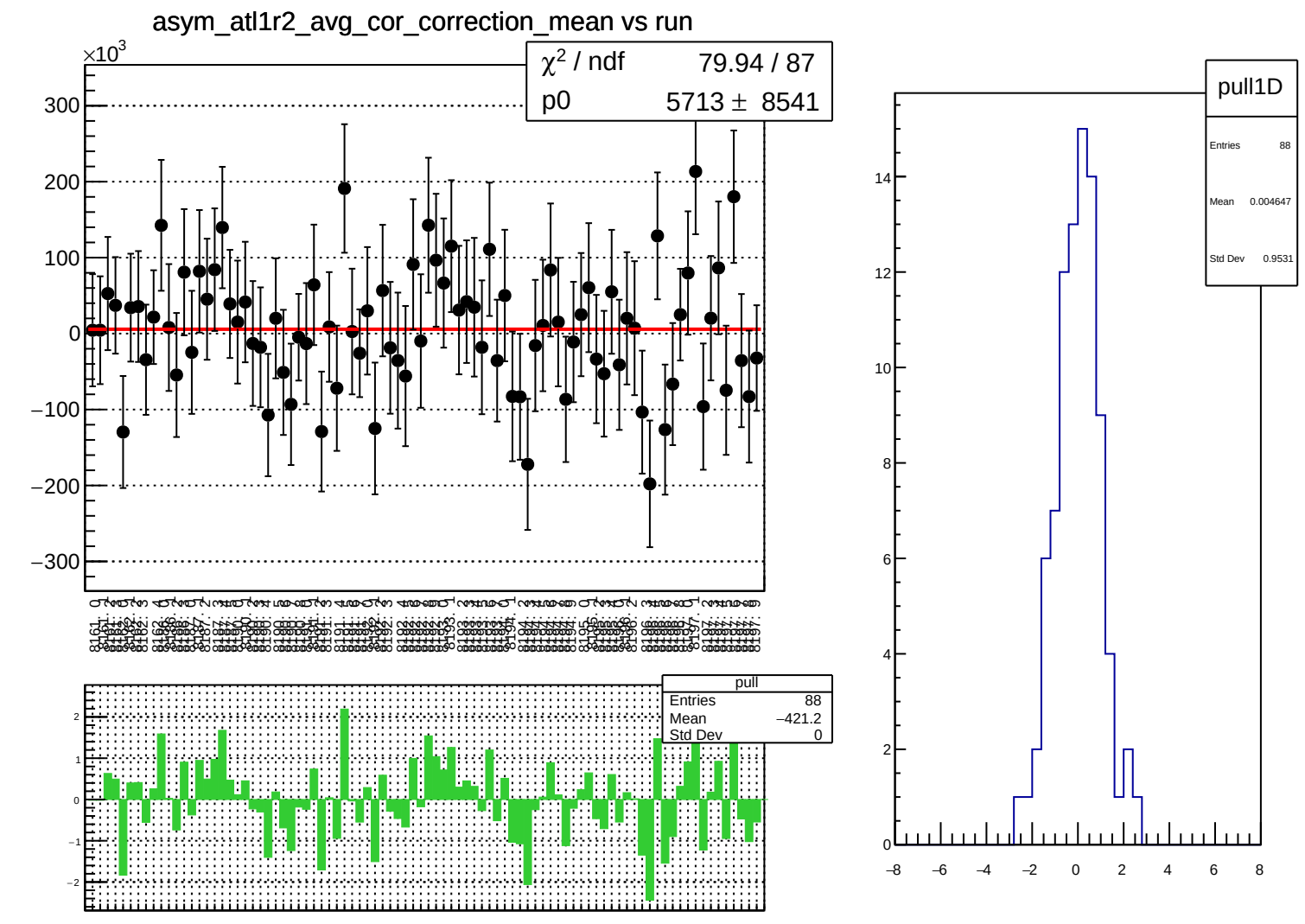

pull1D
Entries 88
Mean 0.004645
Std Dev 0.9531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

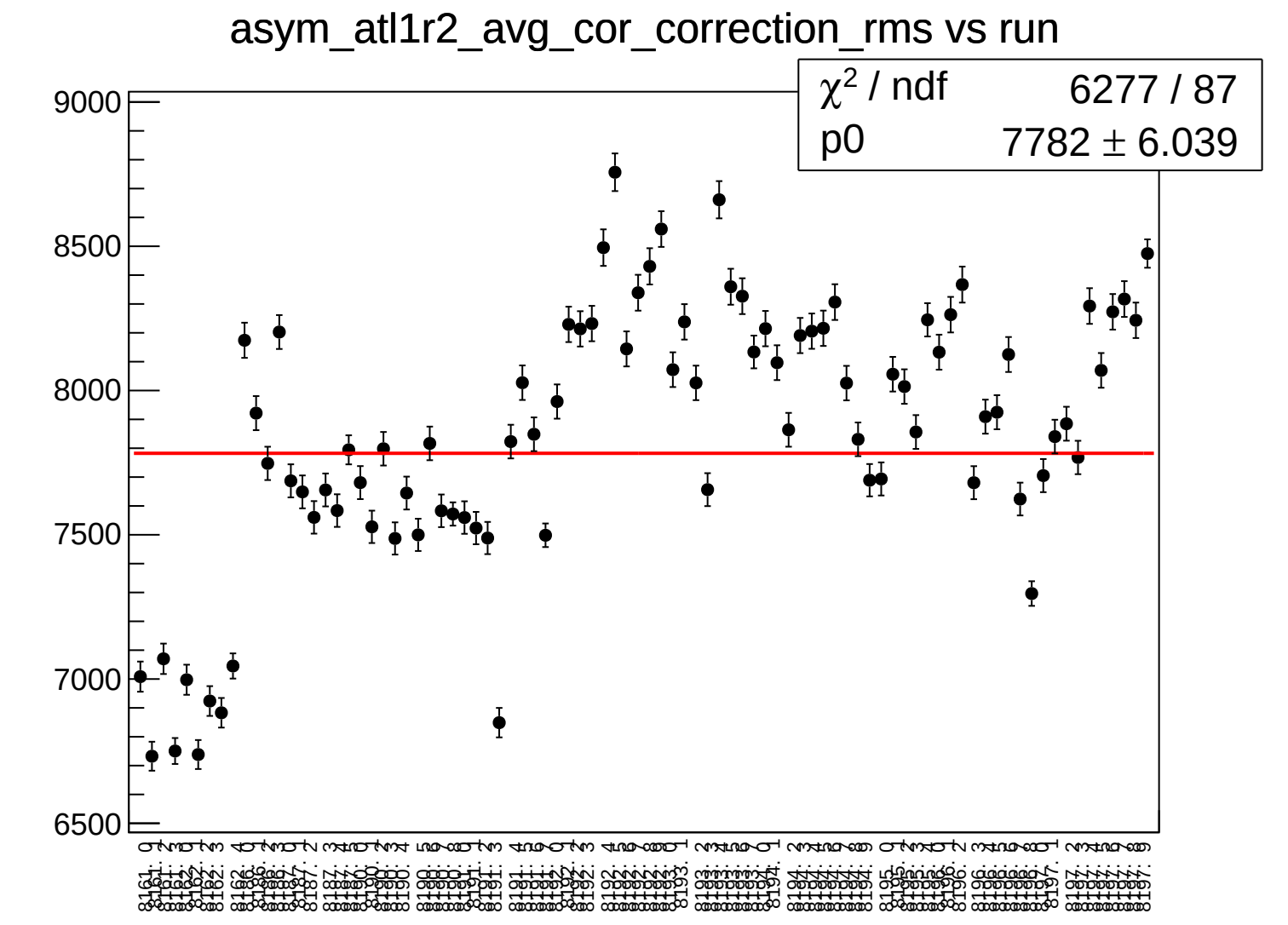

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 6277 / 87
p0 7782 ± 6.039
9000
8500
8000
7500
7000
6500

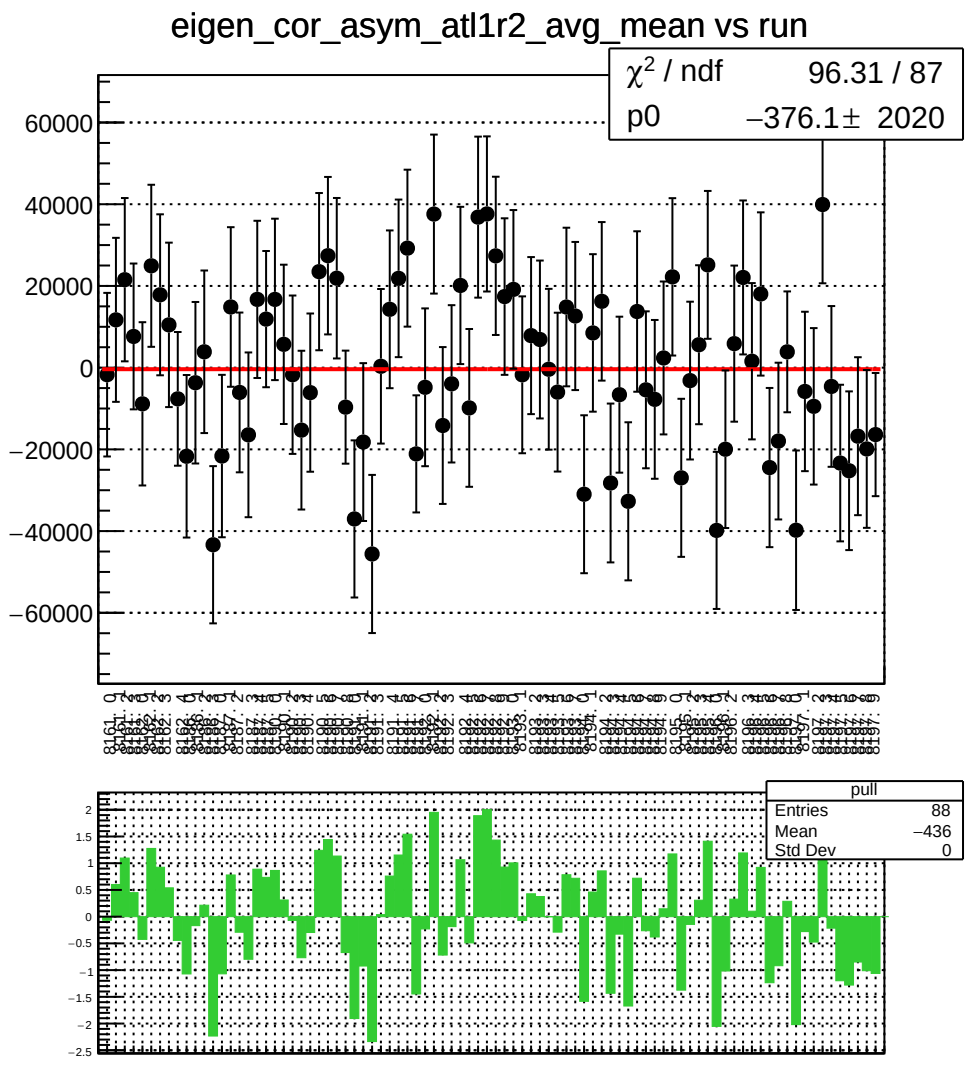

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 96.31 / 87
p0 −376.1± 2020
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −436
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

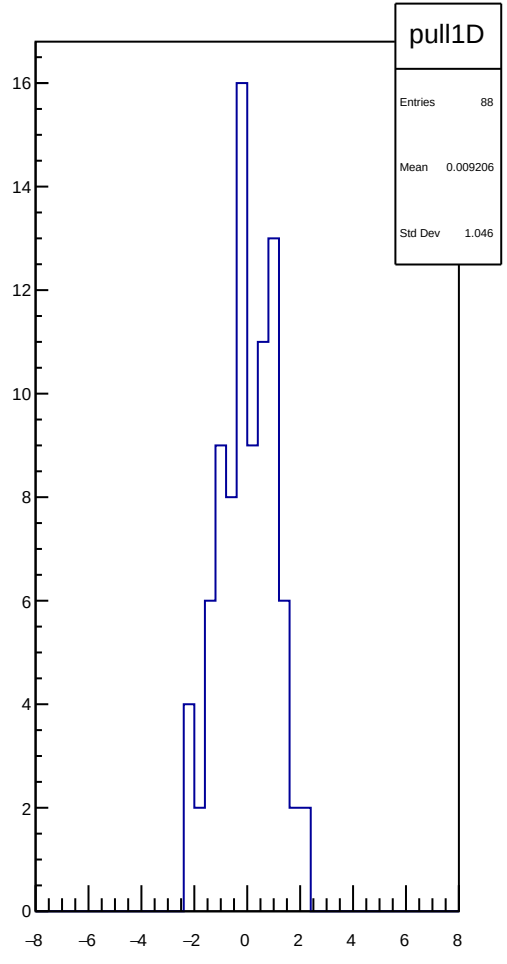

pull1D
Entries 88
Mean 0.009206
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

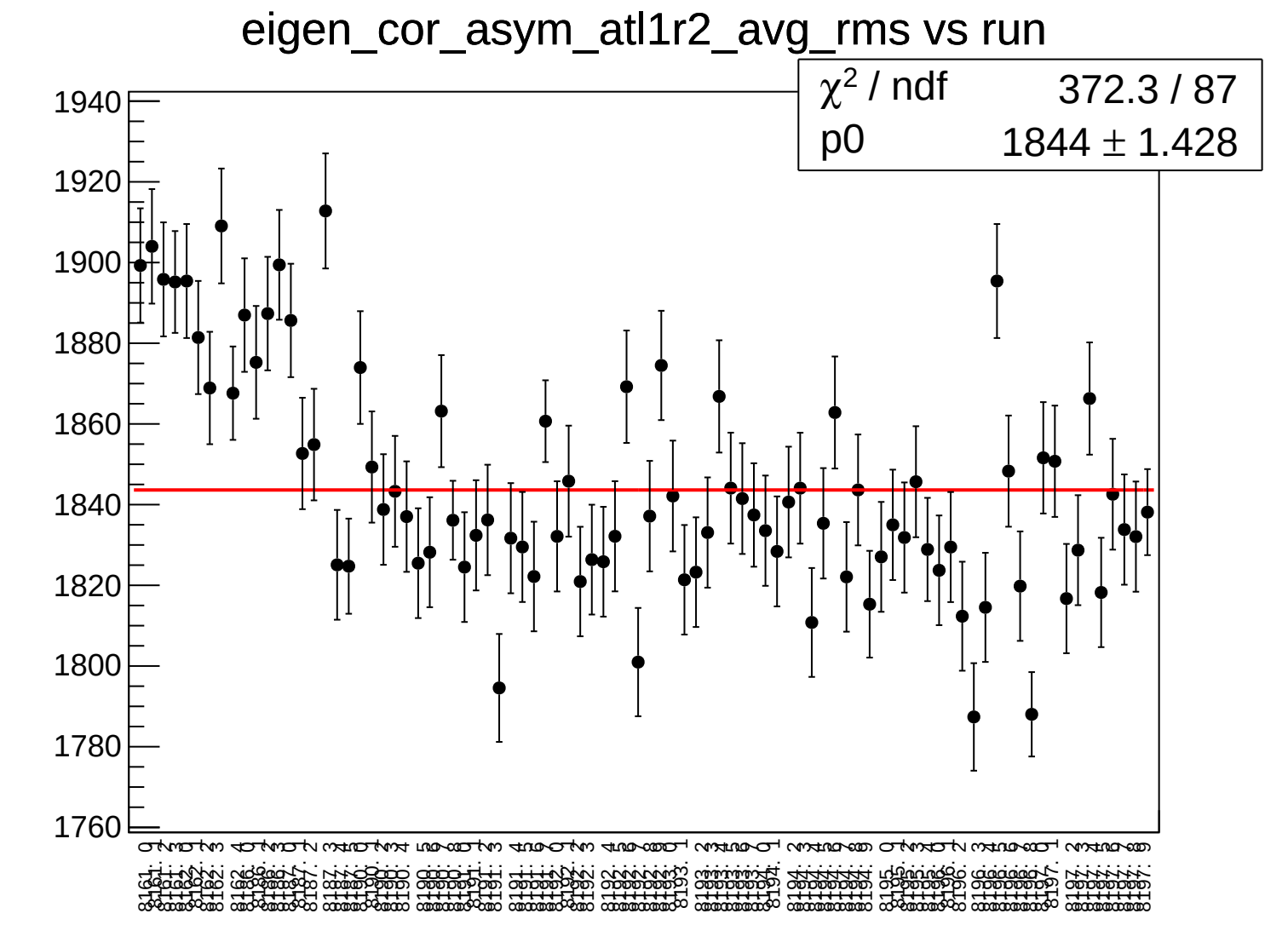

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 372.3 / 87
p0 1844 ± 1.428
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

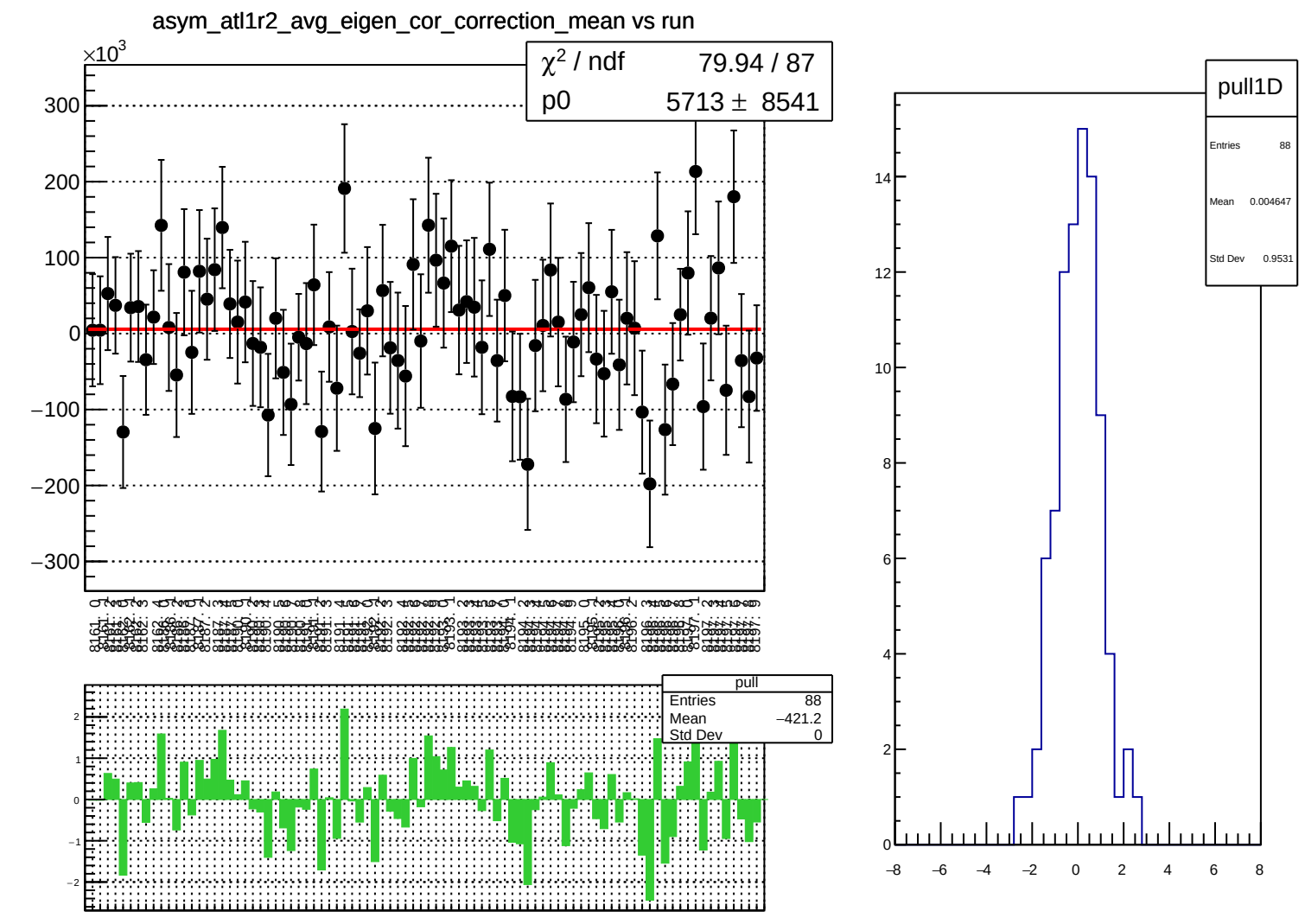

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.94 / 87
p0 5713 ± 8541
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −421.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.004647
Std Dev 0.9531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

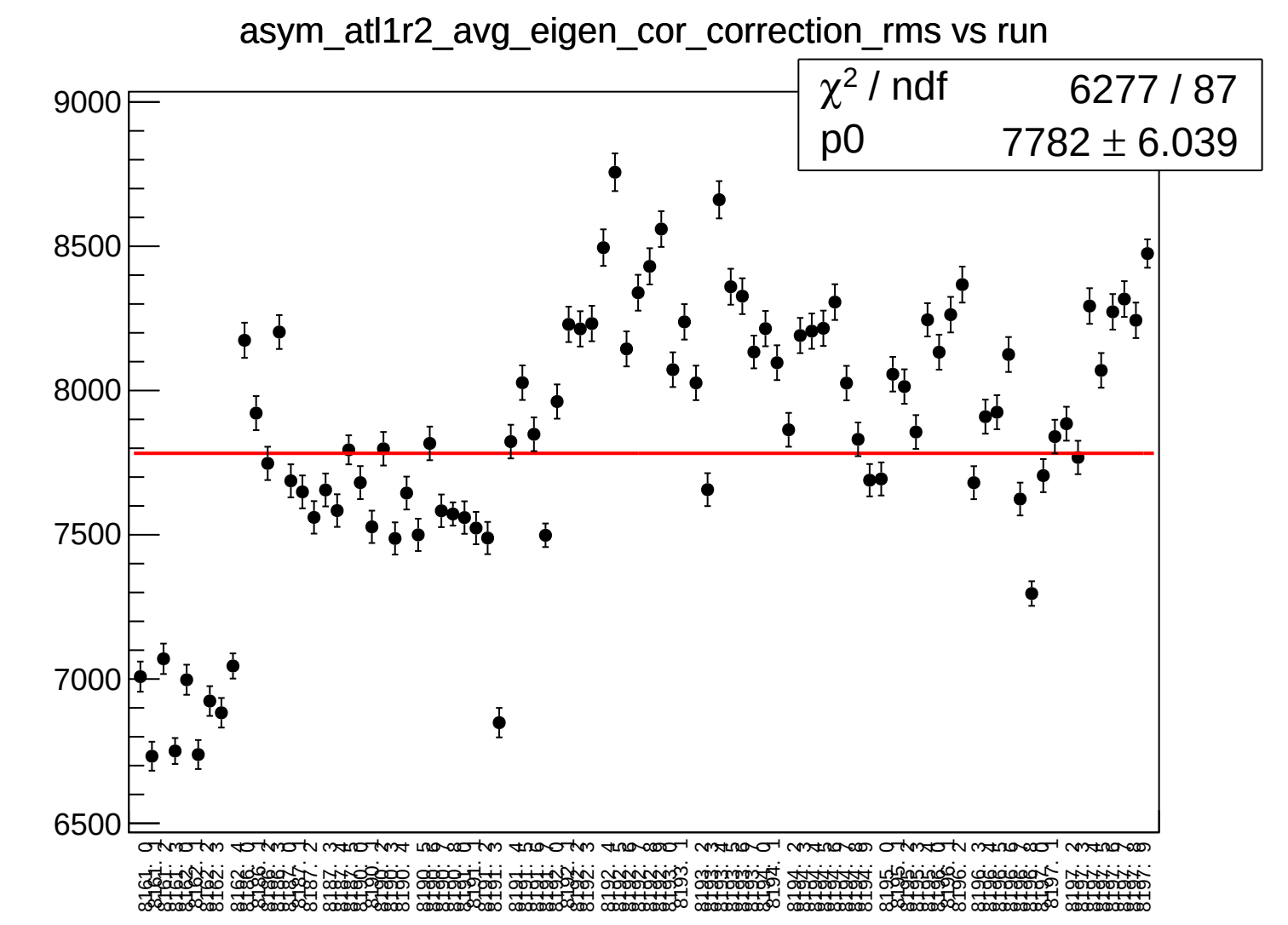

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 6277 / 87
p0 7782 ± 6.039
9000
8500
8000
7500
7000
6500

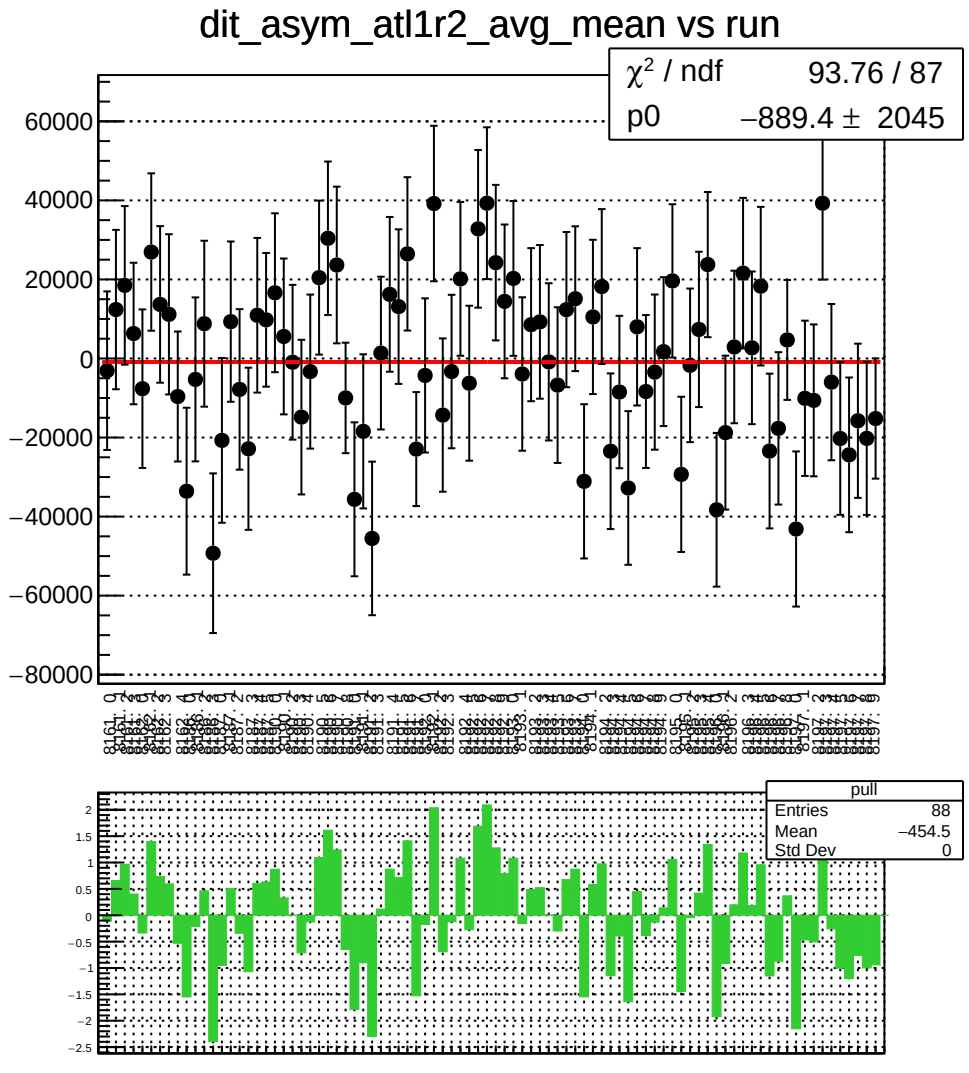

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 96.31 / 87
p0 −376.1± 2020
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −436
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

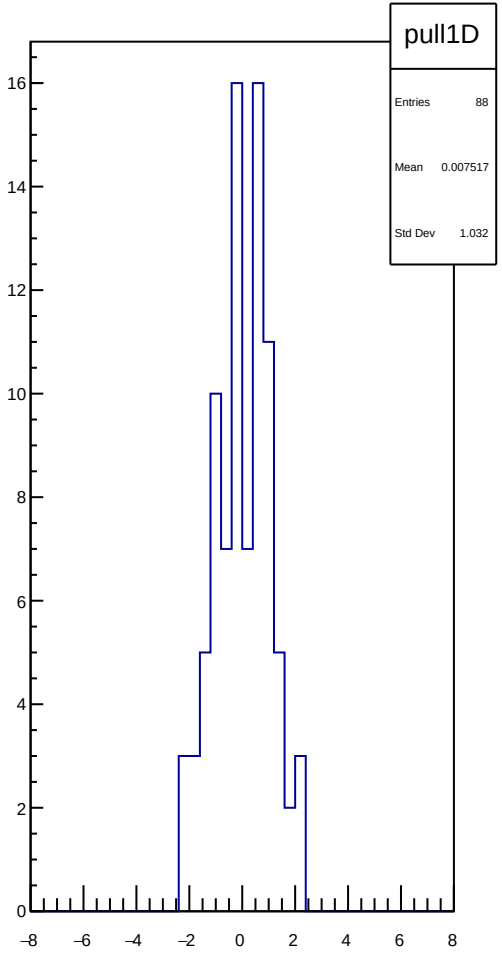

pull1D
Entries 88
Mean 0.009206
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

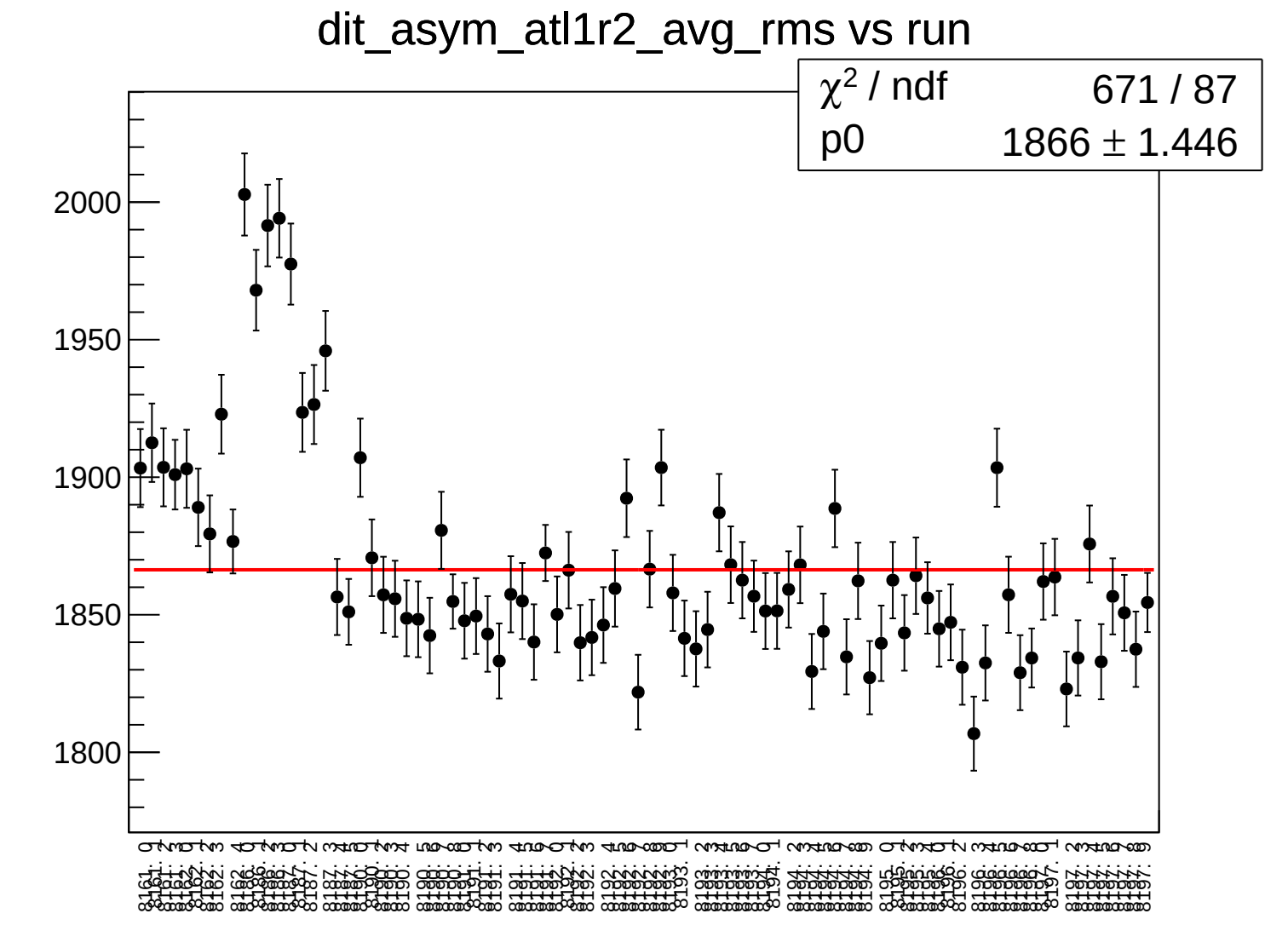

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 372.3 / 87
p0 1844 ± 1.428
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

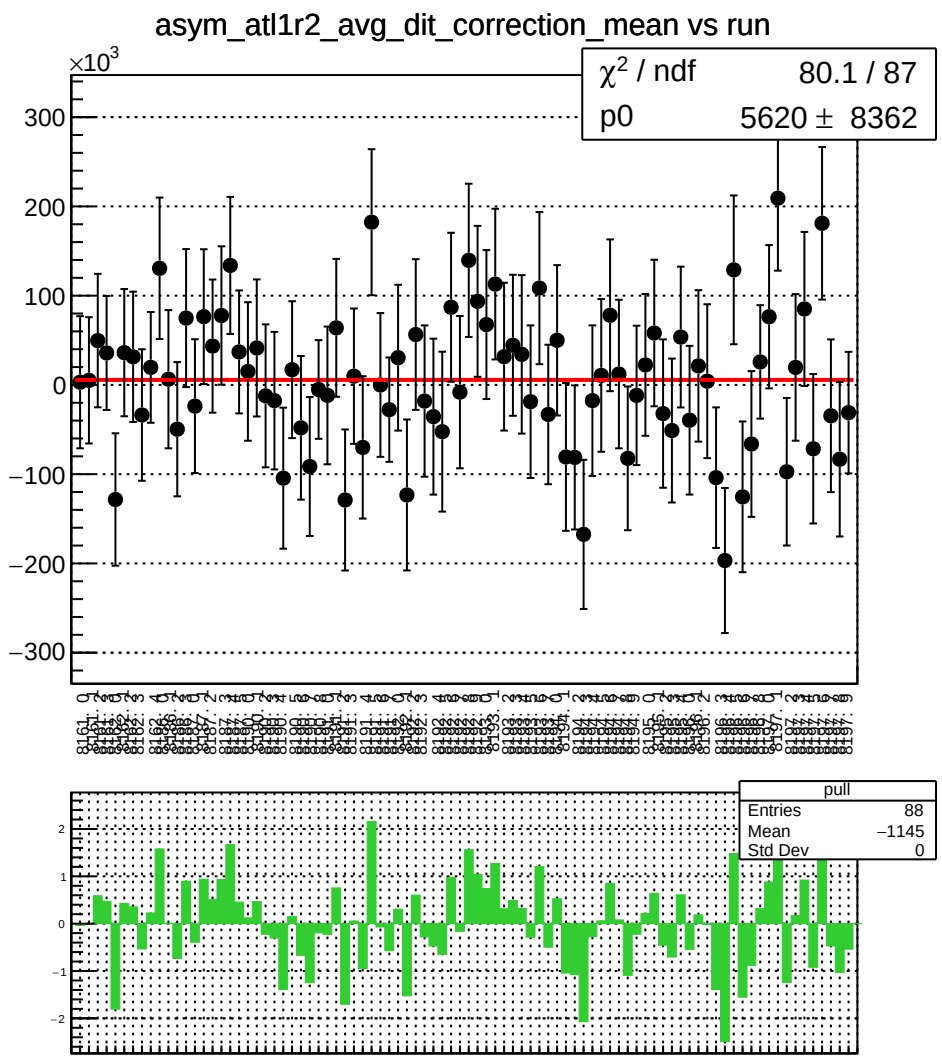

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.94 / 87
p0 5713 ± 8541
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −421.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.004647
Std Dev 0.9531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

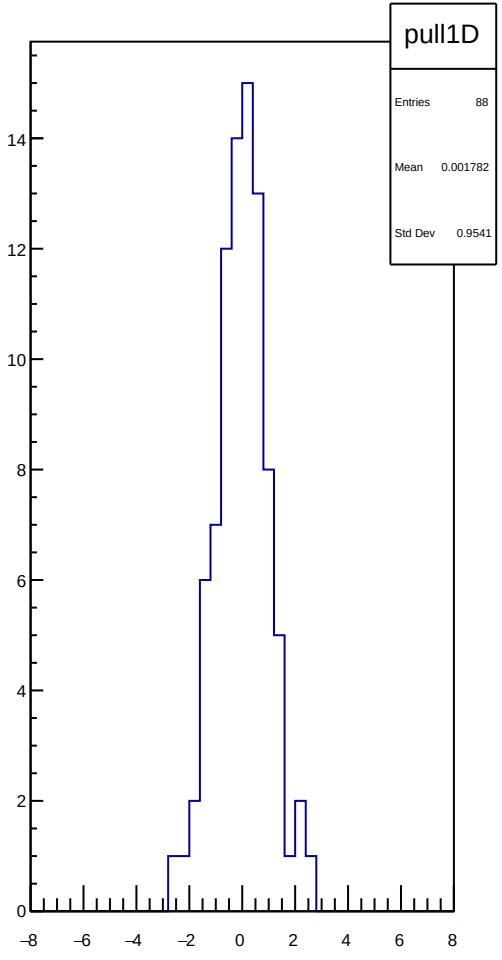

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6277 / 87
p0 7782 ± 6.039
9000
8500
8000
7500
7000
6500

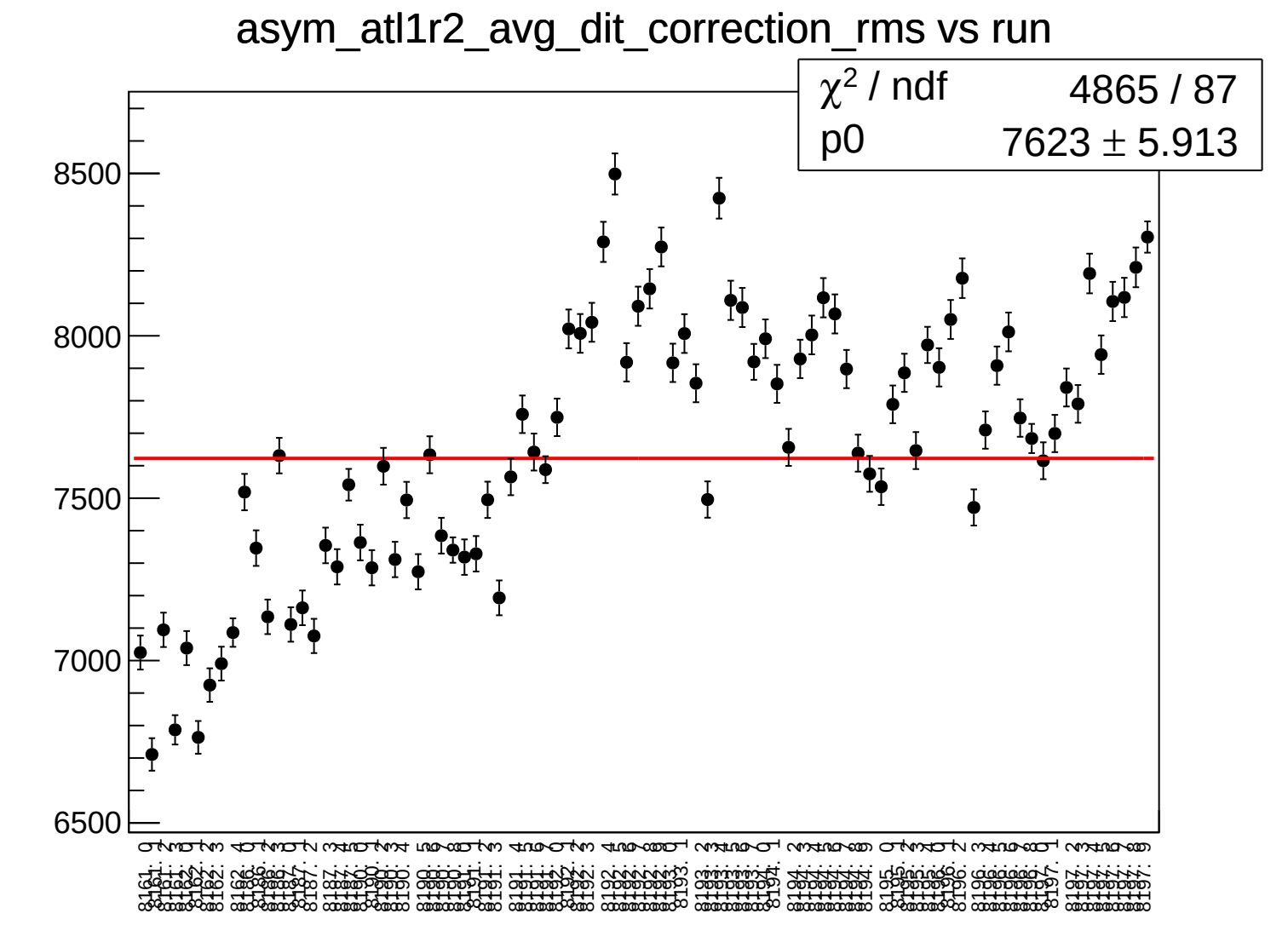

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 93.76 / 87
p0 −889.4 ± 2045
pull
Entries 88
Mean −454.5
Std Dev 0

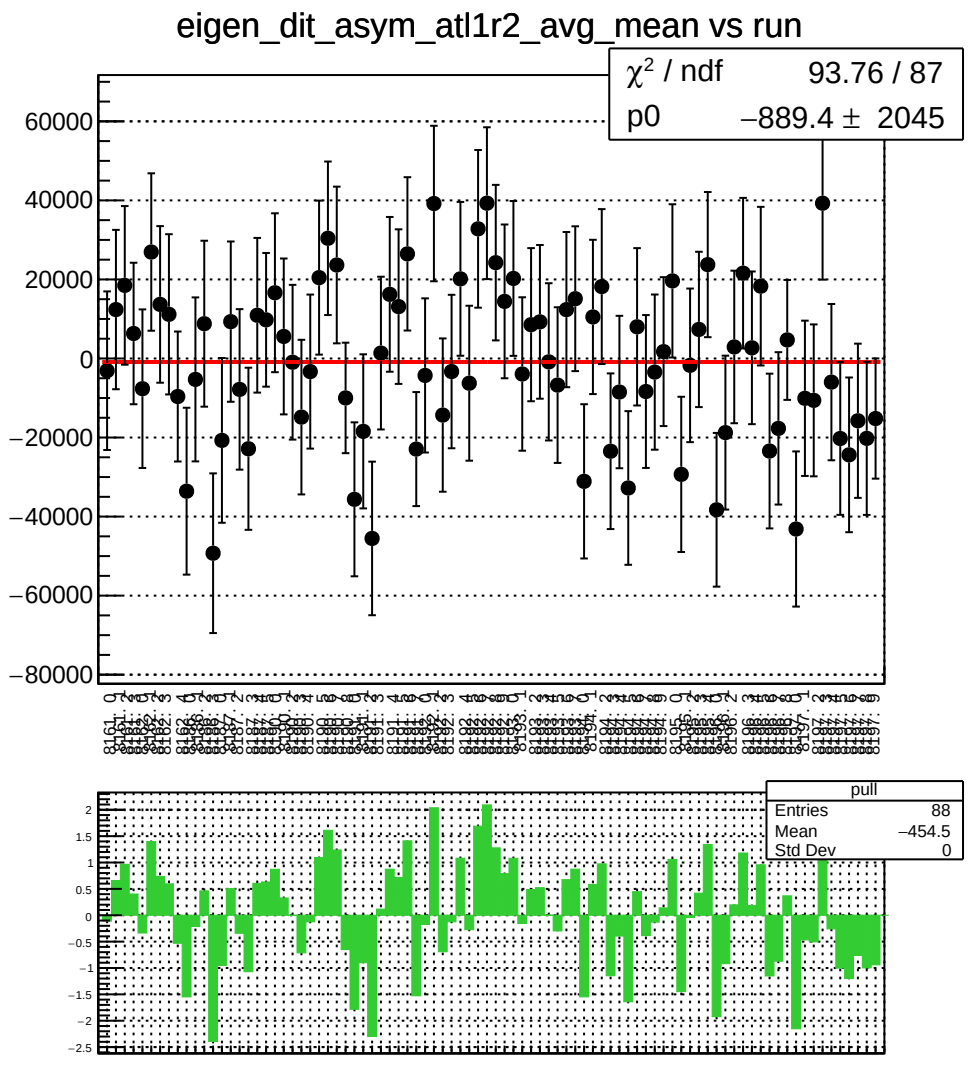

pull1D
Entries 88
Mean 0.007517
Std Dev 1.032

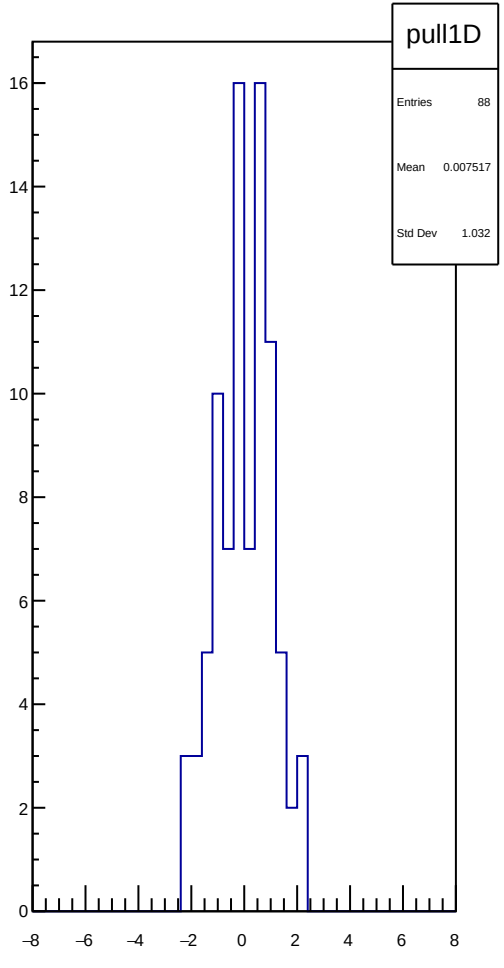

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 671 / 87
p0 1866 ± 1.446
2000
1950
1900
1850
1800

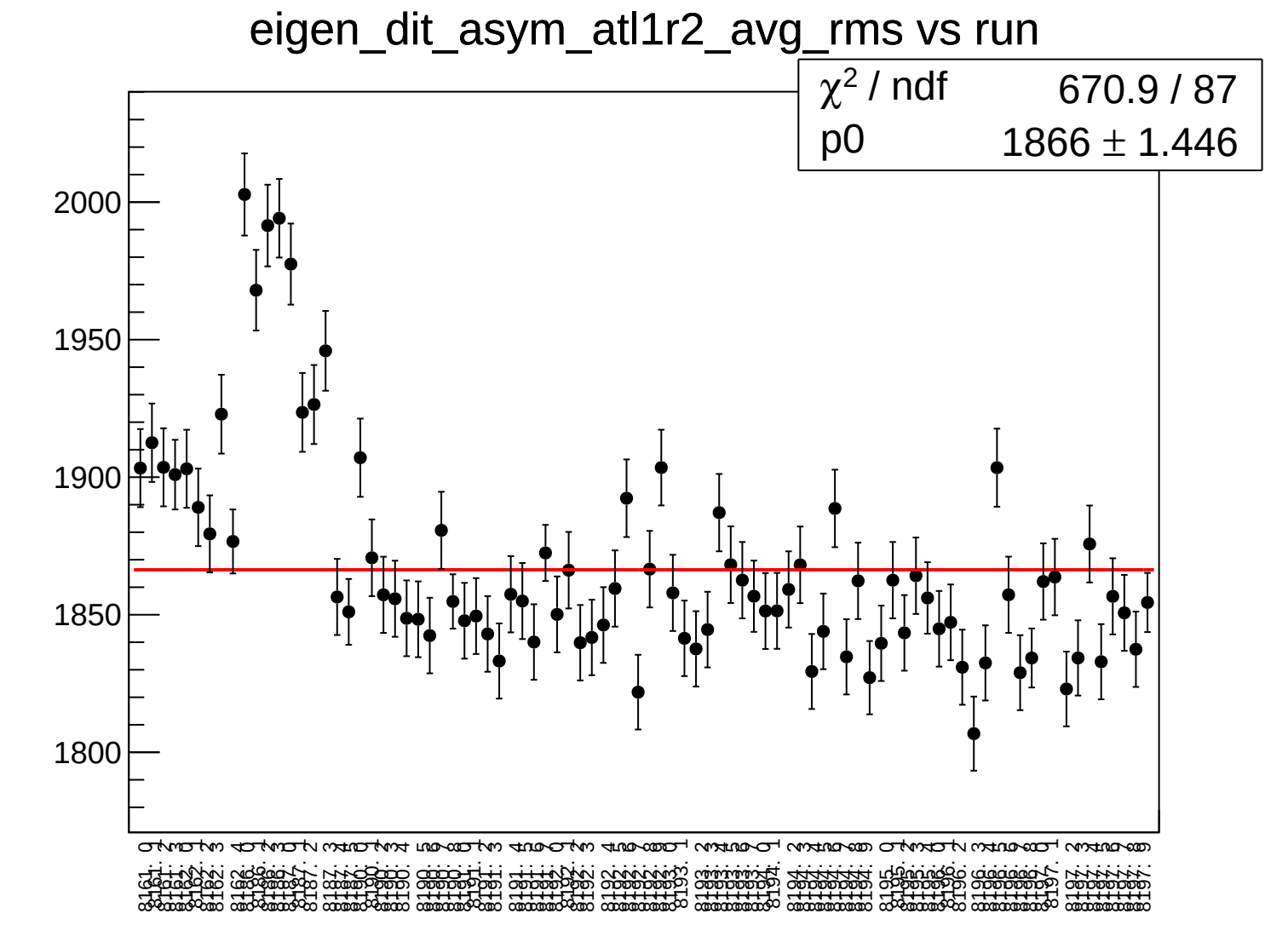

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 80.1 / 87
p0 5620 ± 8362
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −1145
Std Dev 0
2
1
0
−1
−2

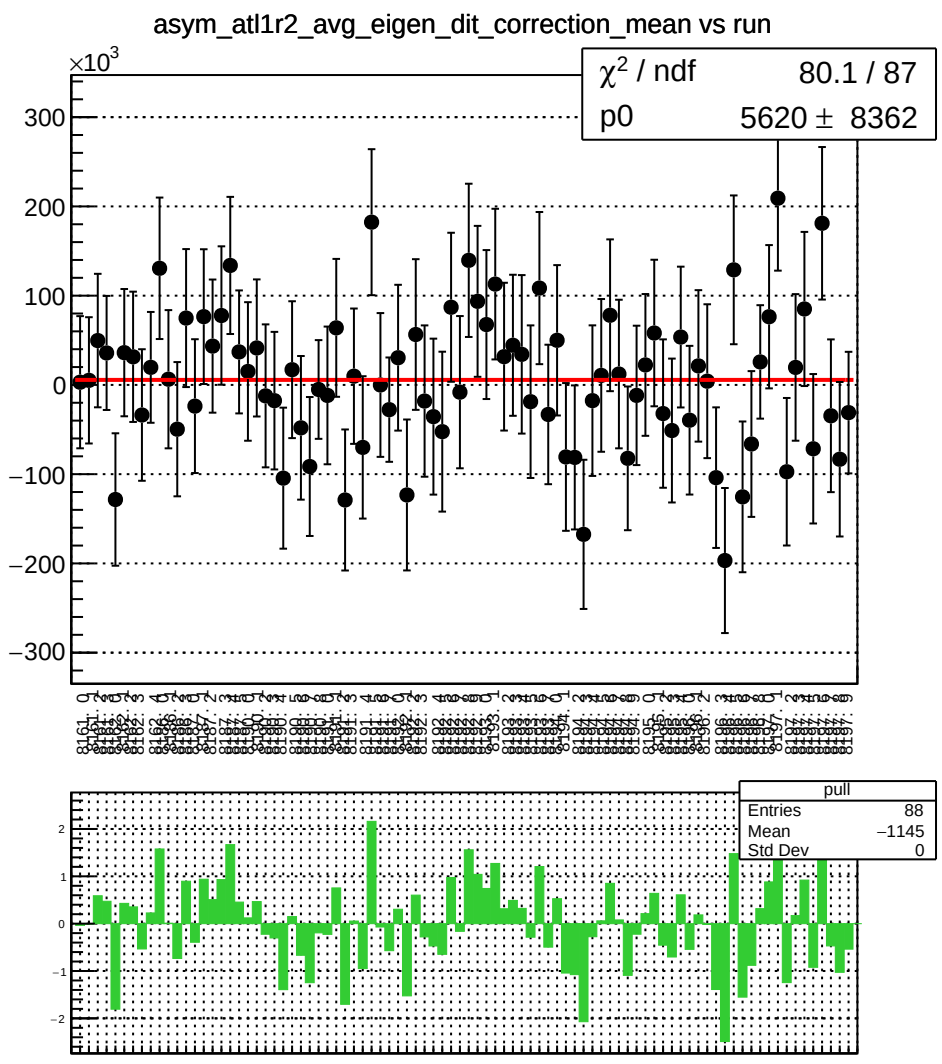

pull1D
Entries 88
Mean 0.001782
Std Dev 0.9541
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

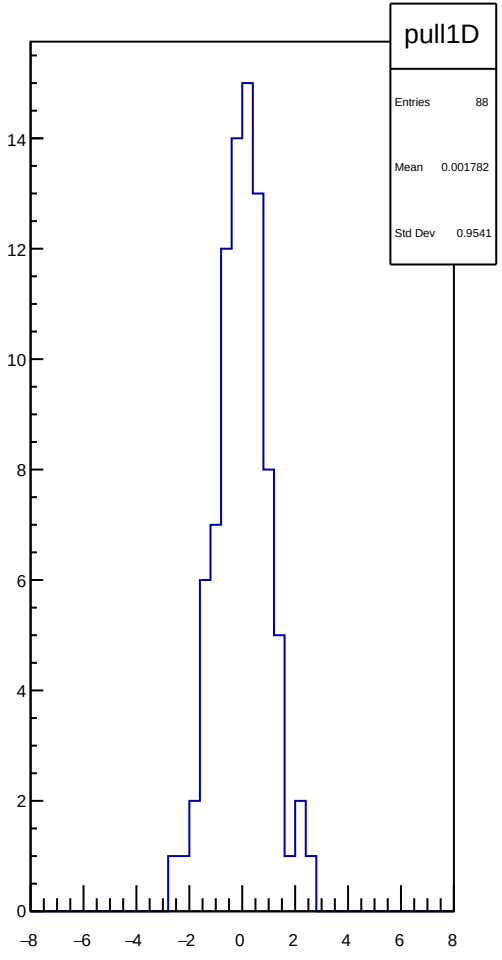

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 4865 / 87
p0 7623 ± 5.913
8500
8000
7500
7000
6500

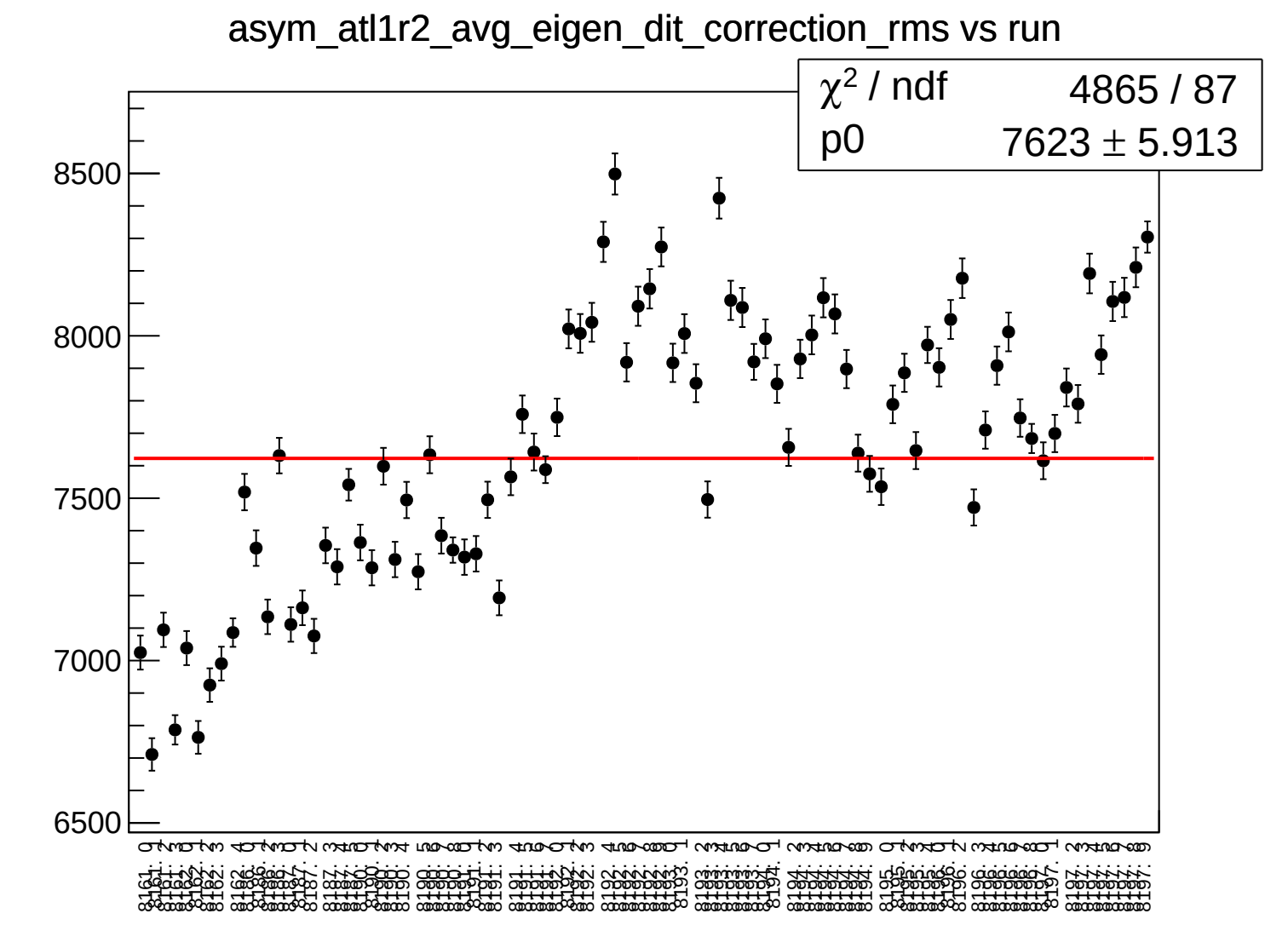

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 93.76 / 87
p0 −889.4 ± 2045
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −454.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

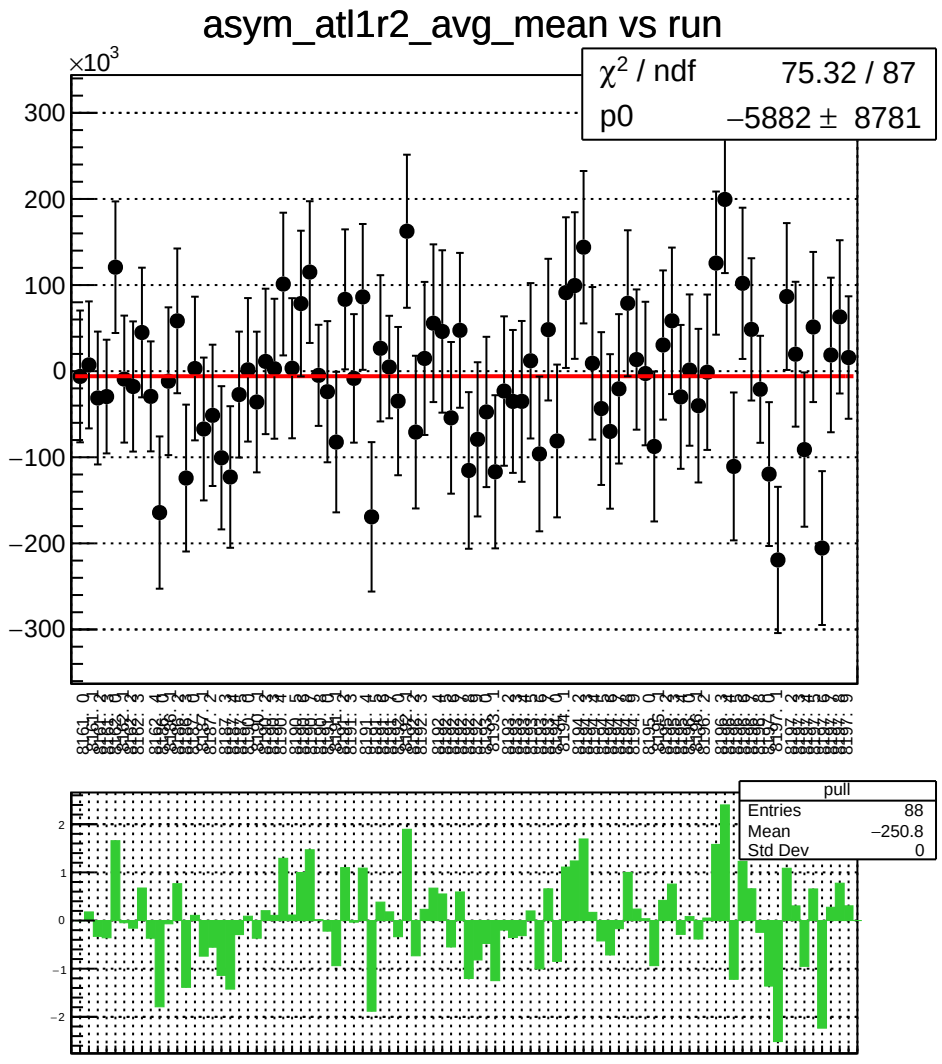

pull1D
Entries 88
Mean 0.007517
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

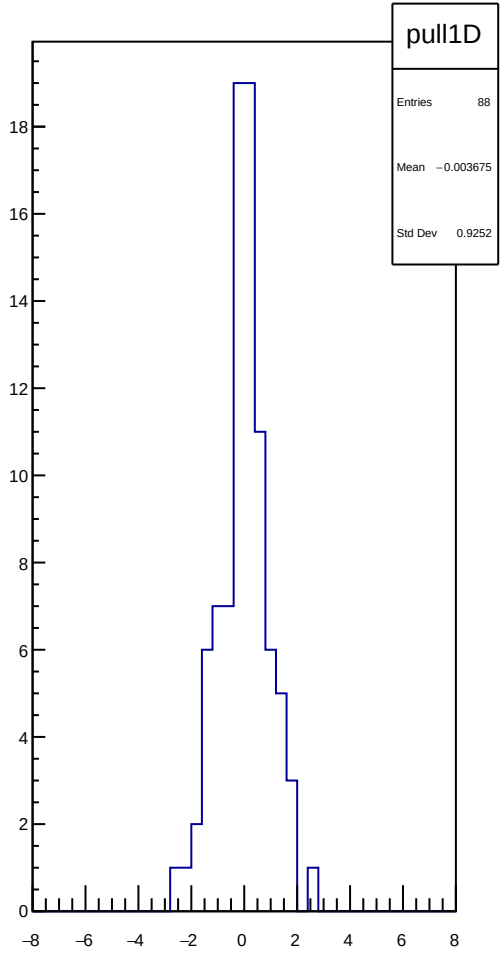

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 670.9 / 87
p0 1866 ± 1.446
2000
1950
1900
1850
1800

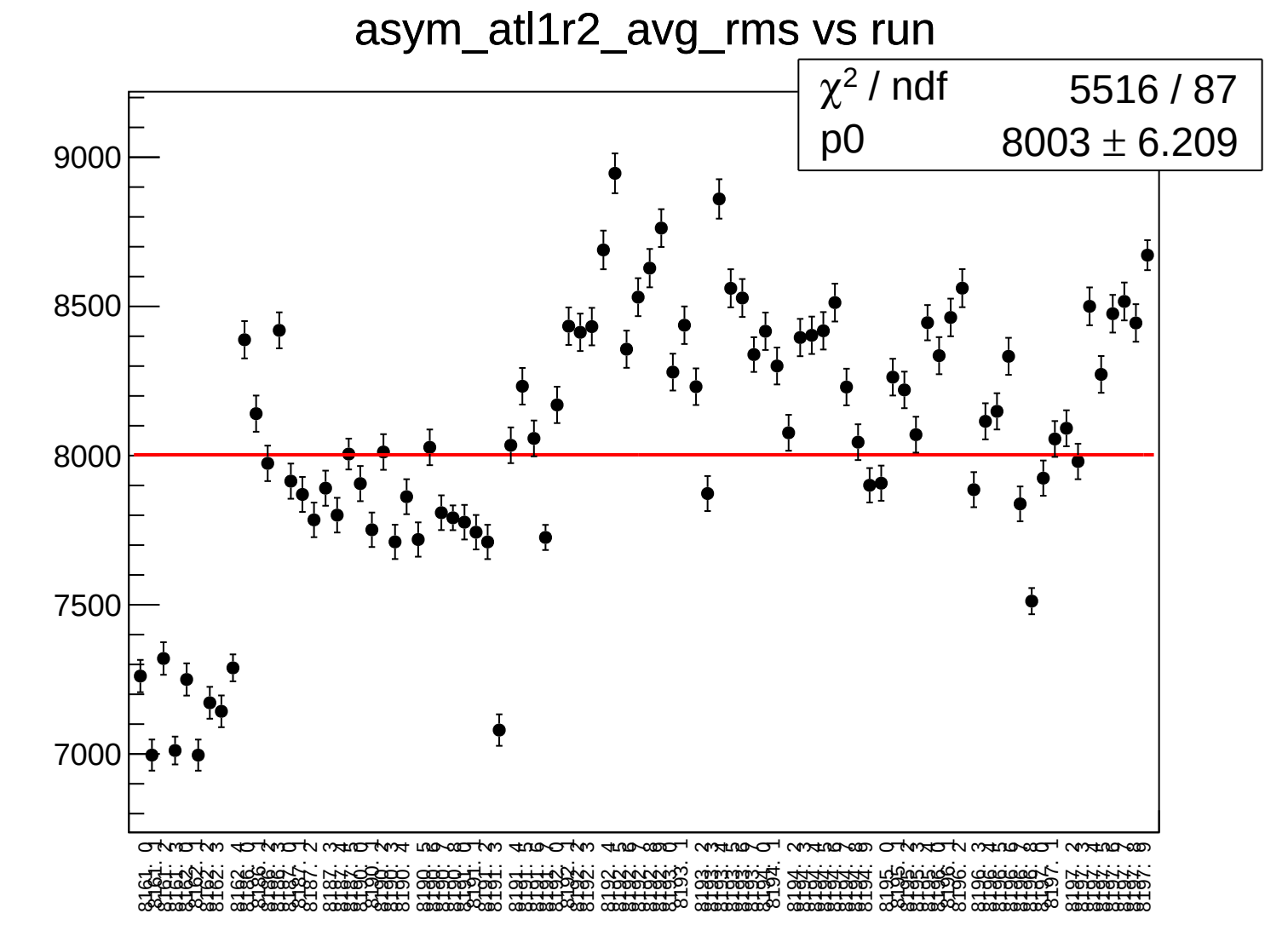

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.1 / 87
p0 5620 ± 8362
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −1145
Std Dev 0
2
1
0
−1
−2

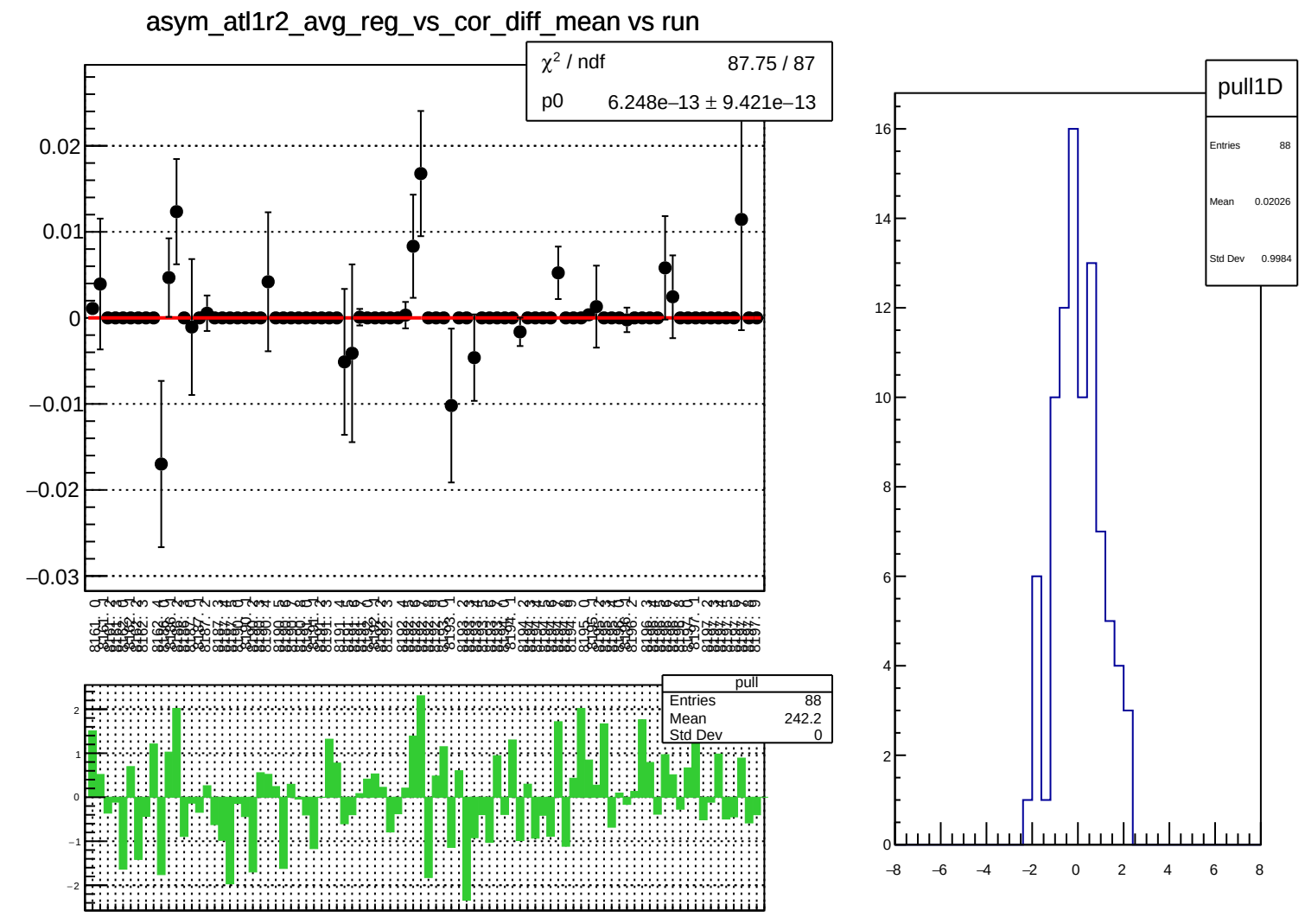

pull1D
Entries 88
Mean 0.001782
Std Dev 0.9541
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

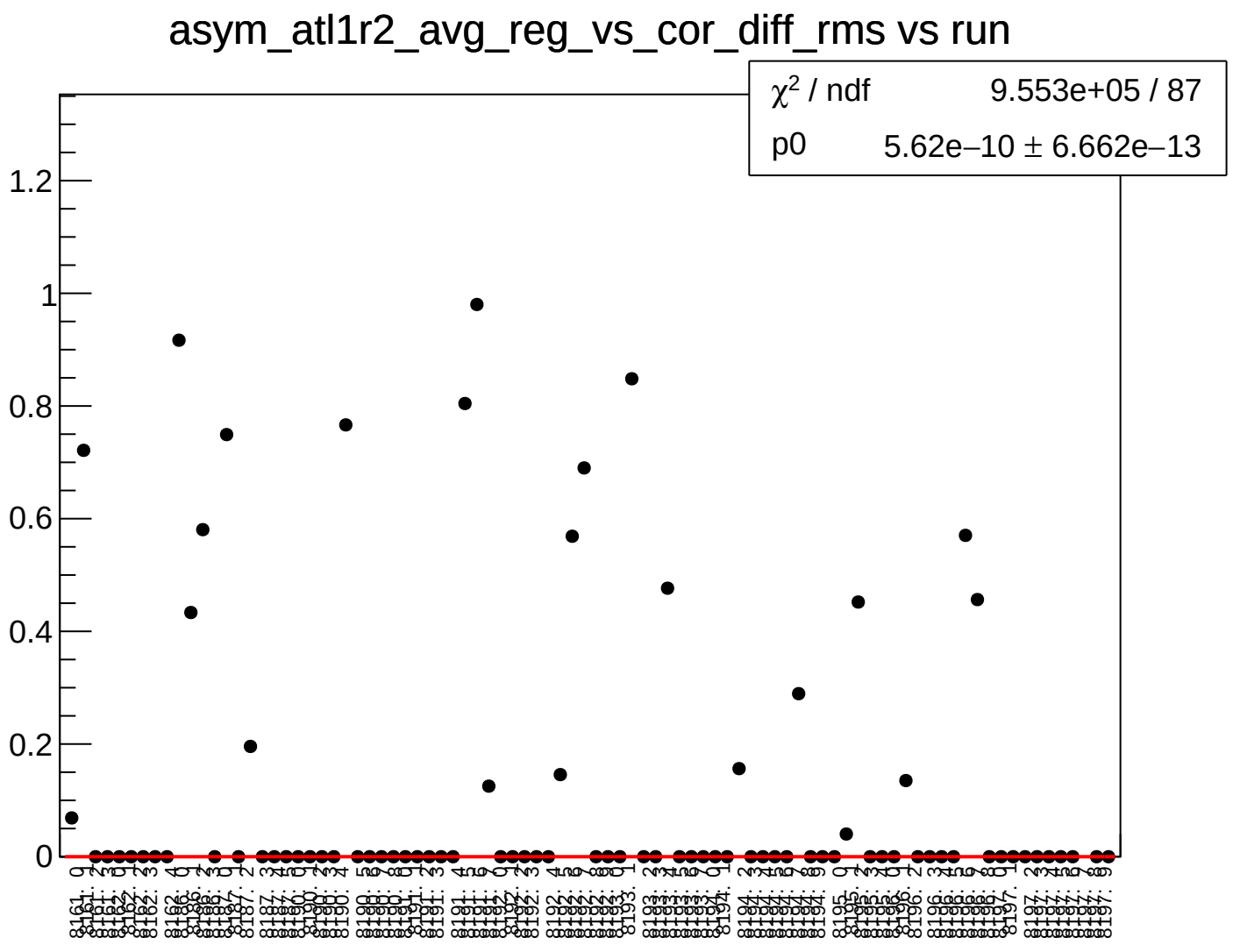

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4865 / 87
p0 7623 ± 5.913
8500
8000
7500
7000
6500

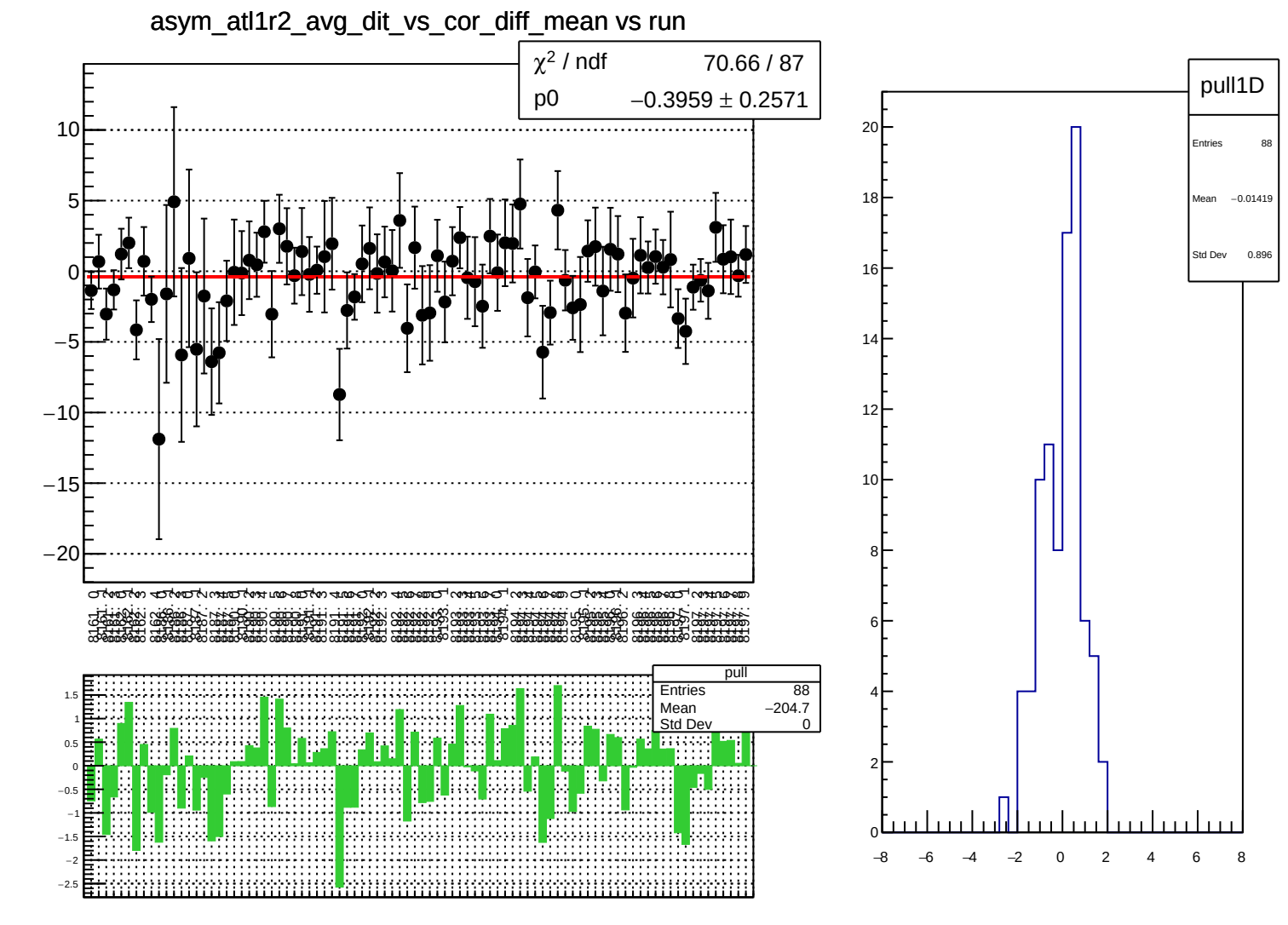

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 75.32 / 87
p0 −5882 ± 8781
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −250.8
Std Dev 0
2
1
0
−1
−2

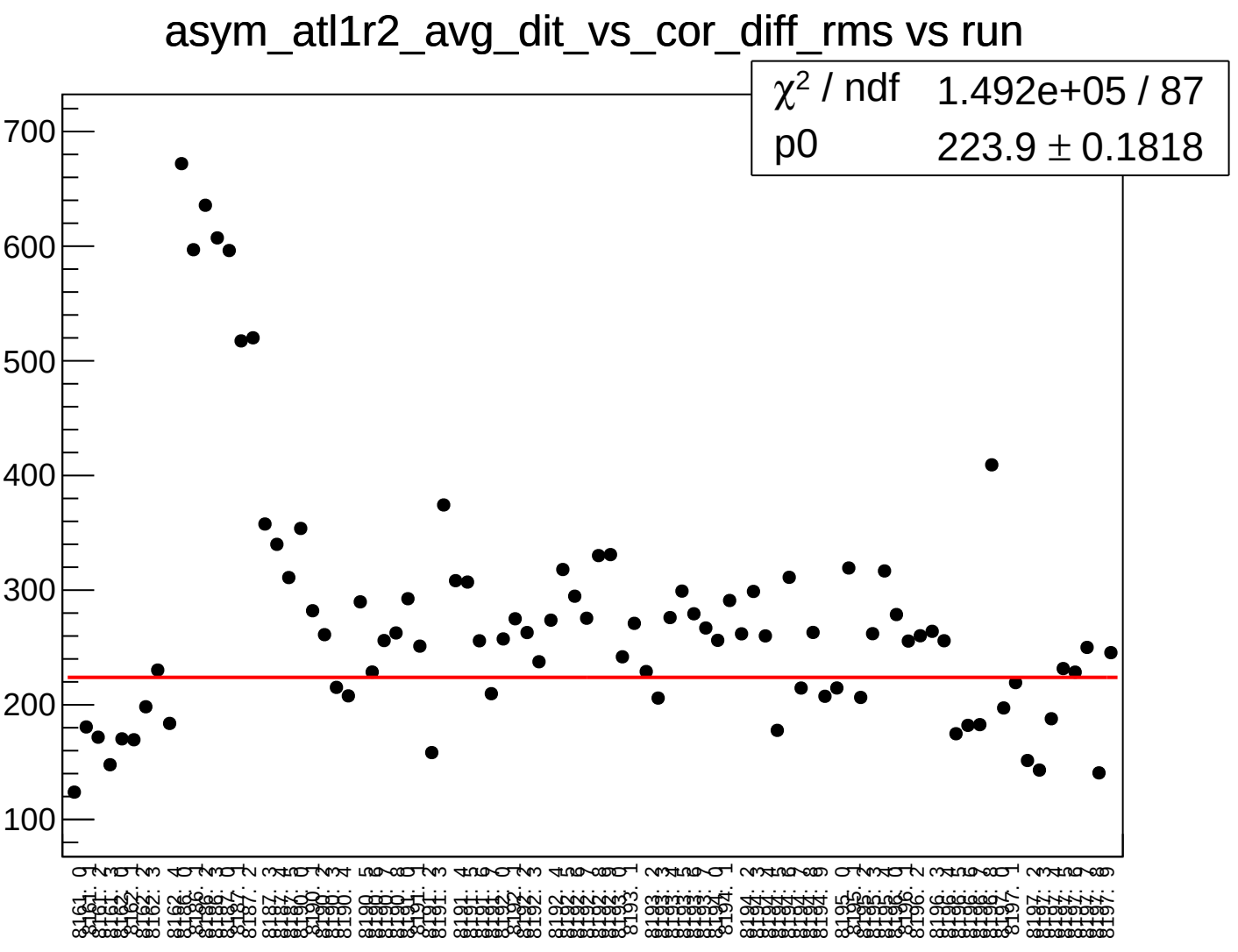

pull1D
Entries 88
Mean −0.003675
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

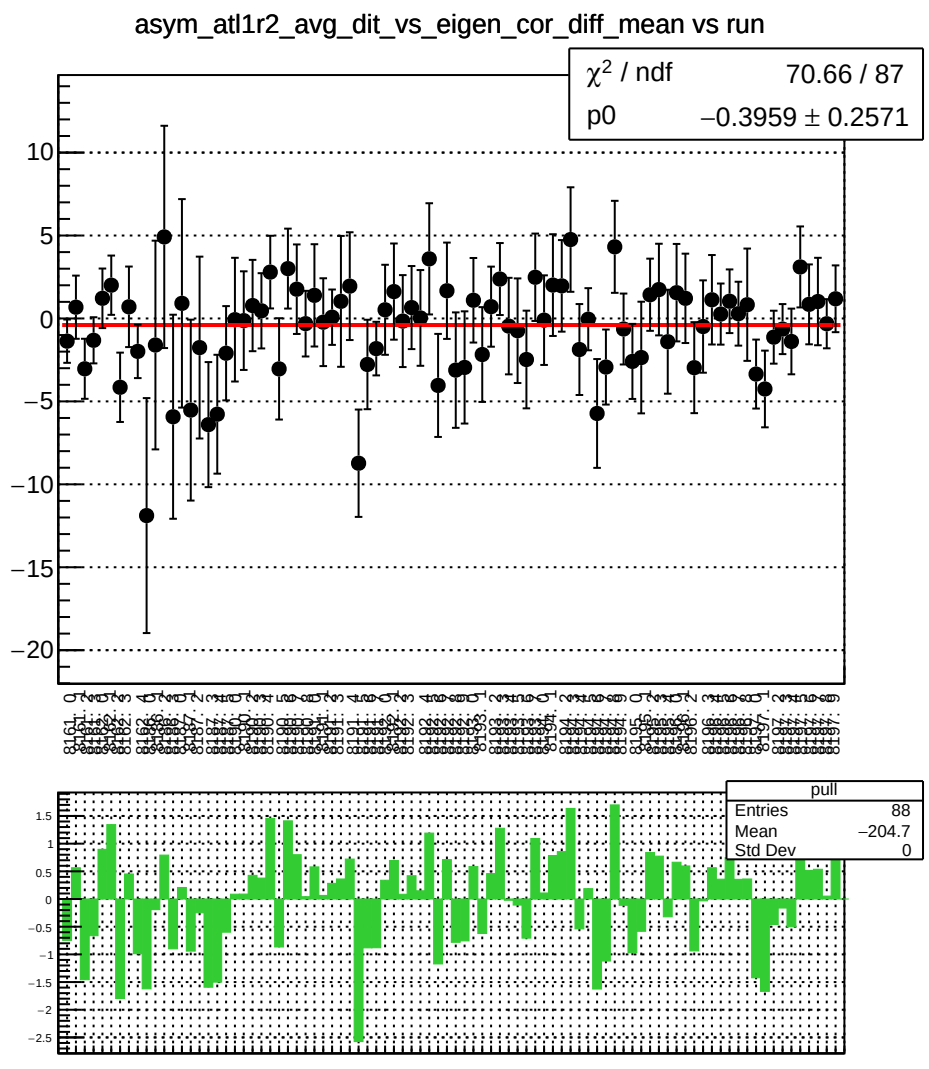

asym_atl1r2_avg_rms vs run
χ² / ndf 5516 / 87
p0 8003 ± 6.209
9000
8500
8000
7500
7000

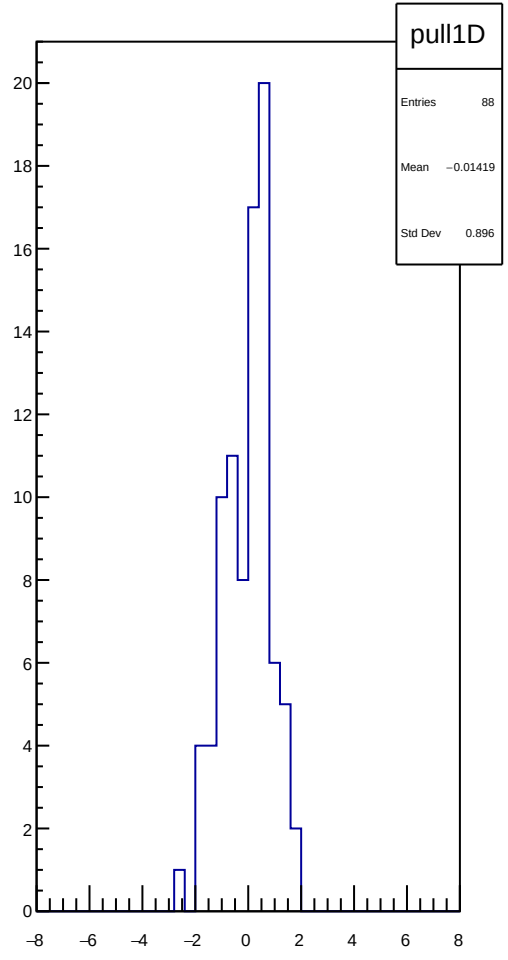

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.75 / 87
p0 6.248e−13 ± 9.421e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 242.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02026
Std Dev 0.9984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

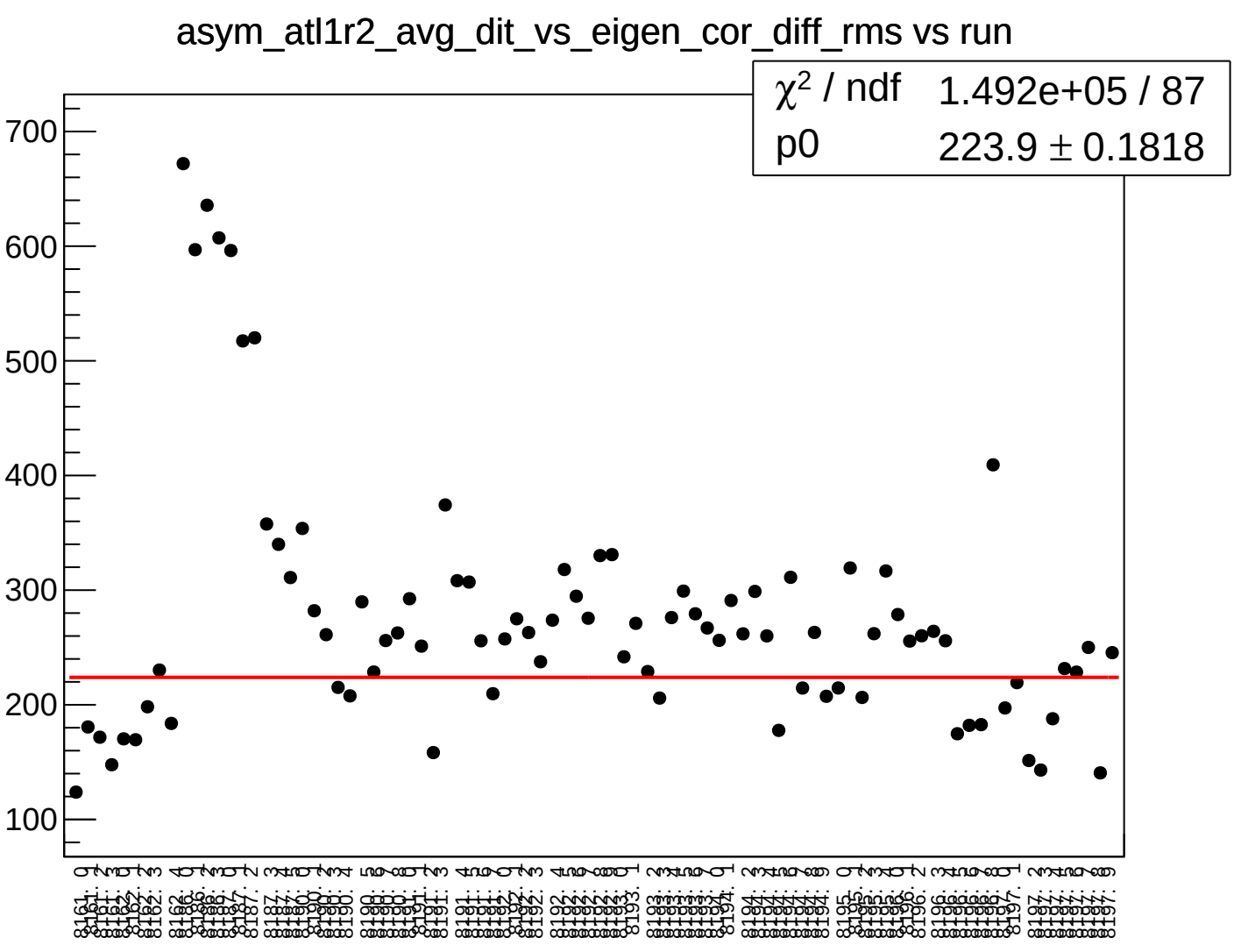

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.553e+05 / 87
p0 5.62e−10 ± 6.662e−13
1.2
1
0.8
0.6
0.4
0.2
0

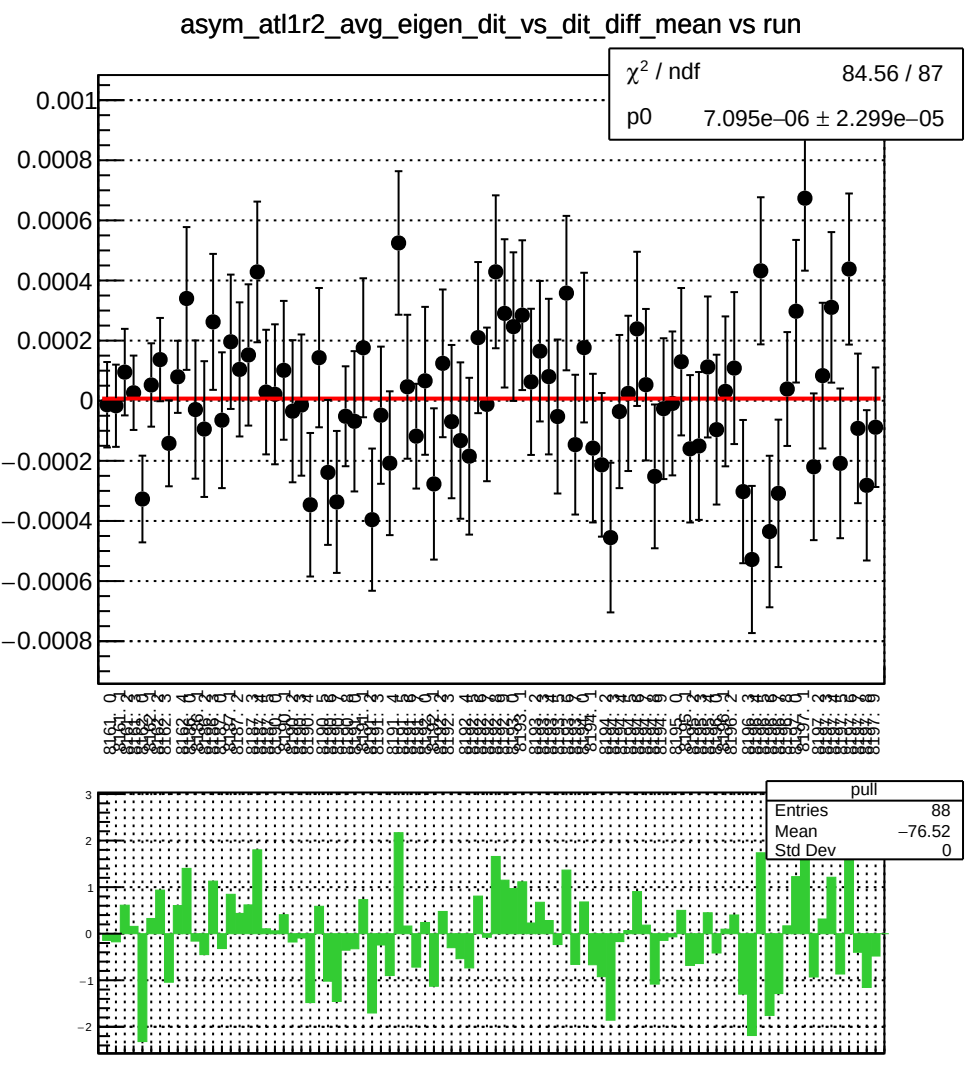

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.66 / 87
p0 −0.3959 ± 0.2571
pull
Entries 88
Mean −204.7
Std Dev 0
pull1D
Entries 88
Mean −0.01419
Std Dev 0.896

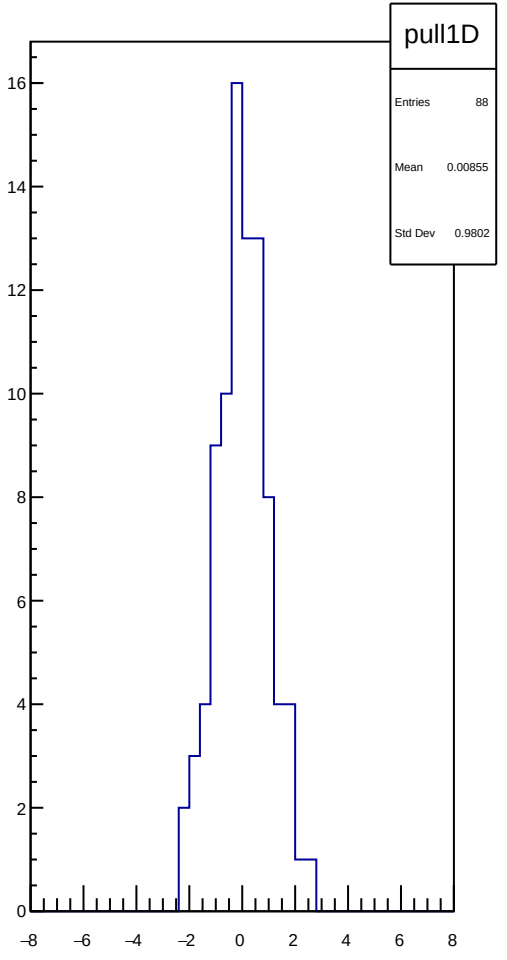

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 87
p0 223.9 ± 0.1818
700
600
500
400
300
200
100

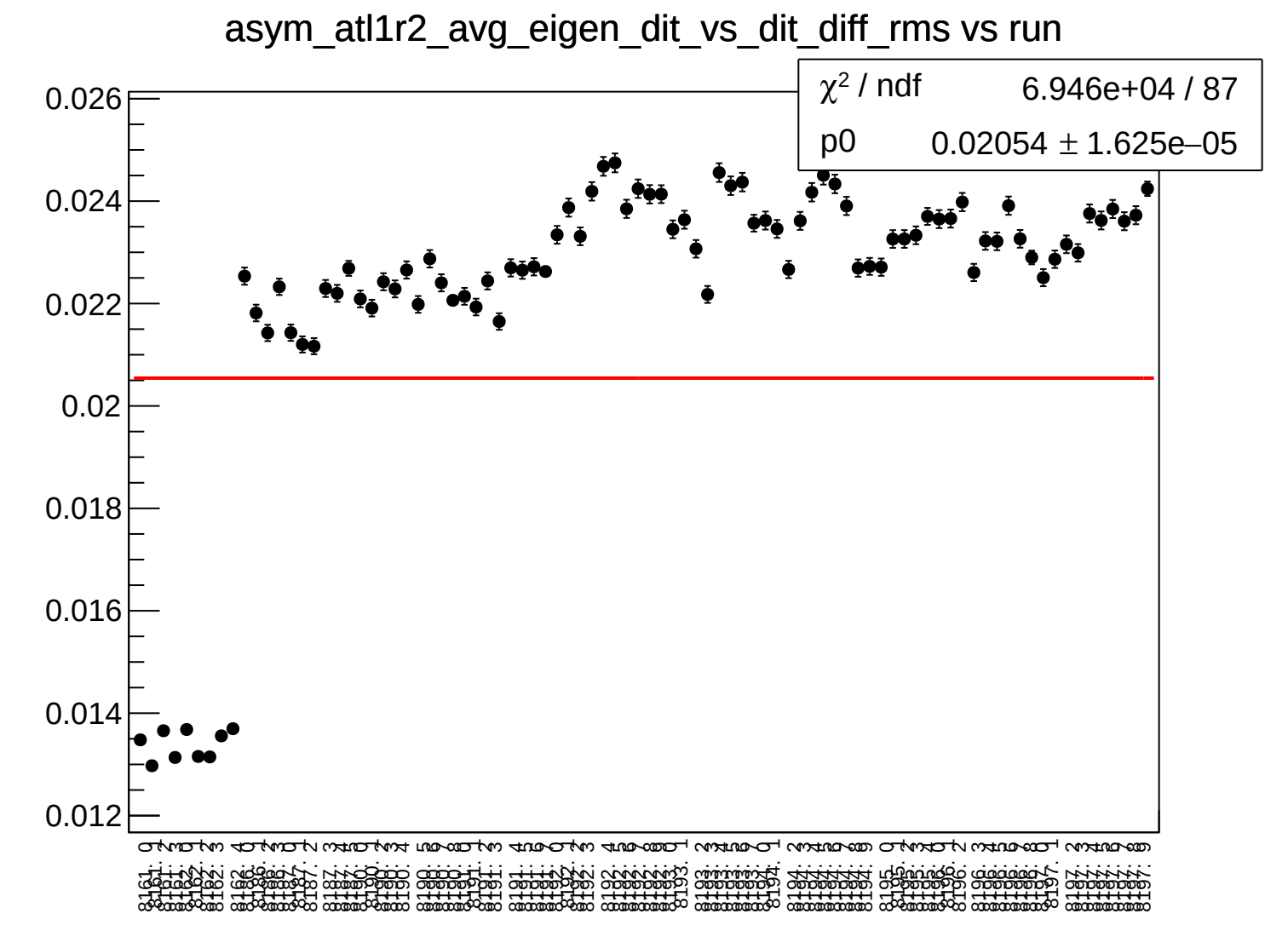

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.66 / 87
p0 −0.3959 ± 0.2571
pull
Entries 88
Mean −204.7
Std Dev 0

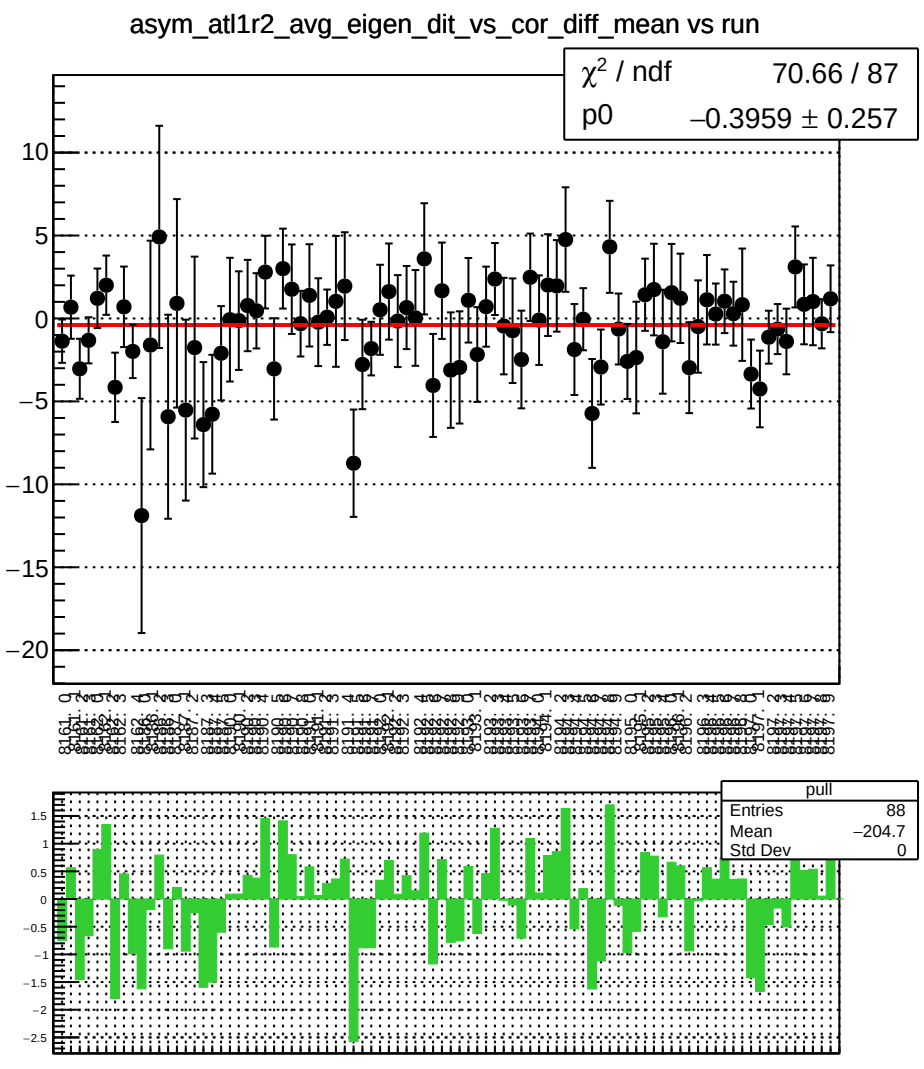

pull1D
Entries 88
Mean −0.01419
Std Dev 0.896

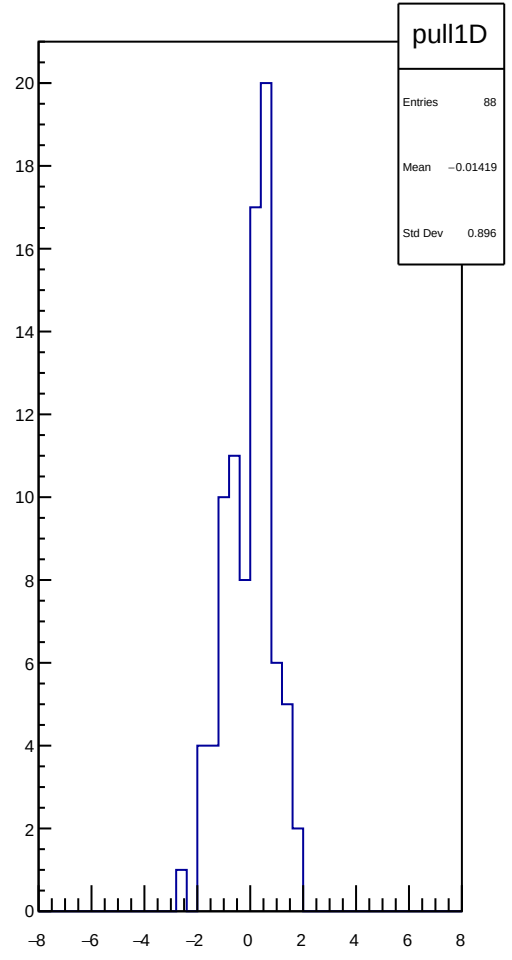

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 87
p0 223.9 ± 0.1818
700
600
500
400
300
200
100

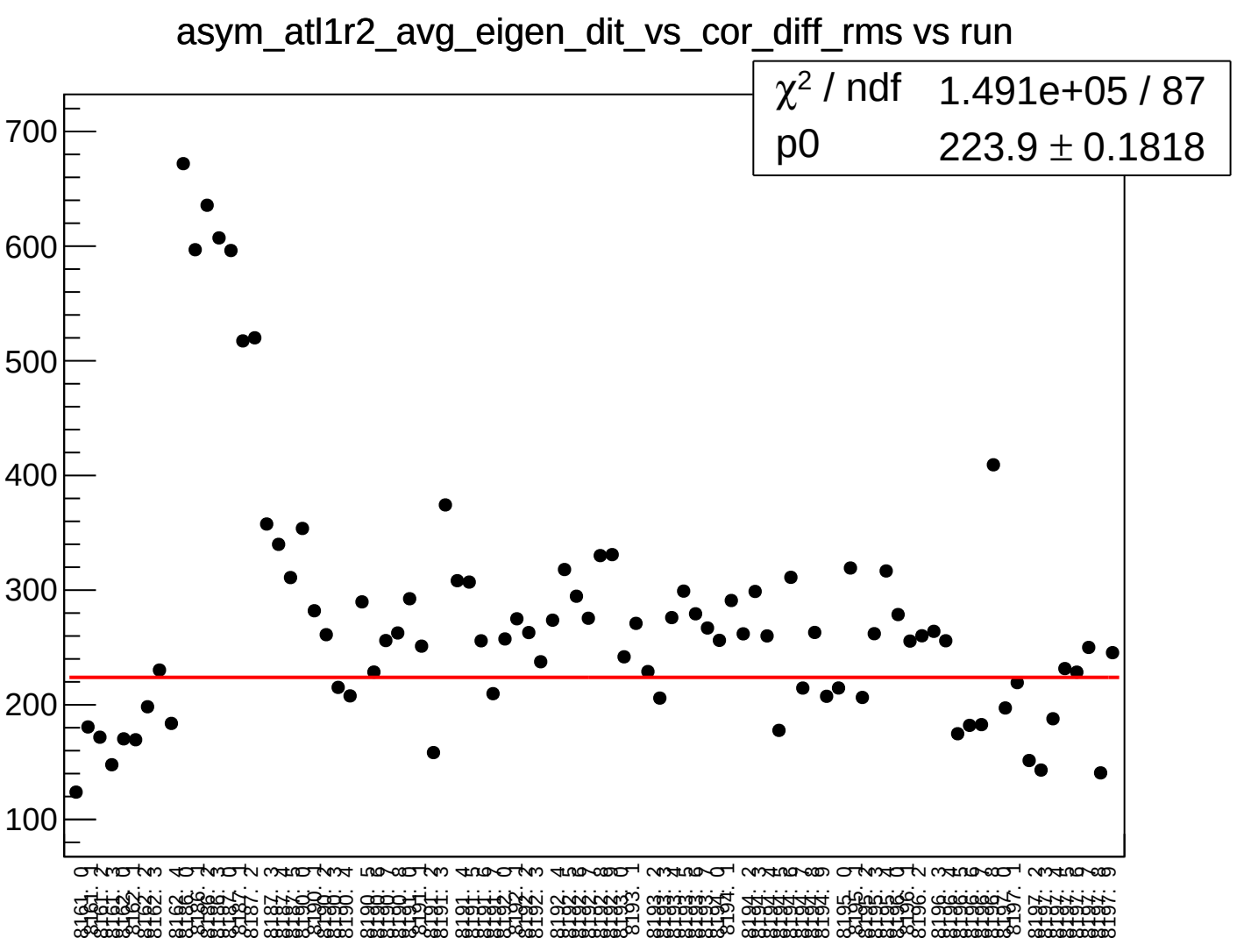

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.56 / 87
p0 7.095e−06 ± 2.299e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 88
Mean −76.52
Std Dev 0
3
2
1
0
−1
−2

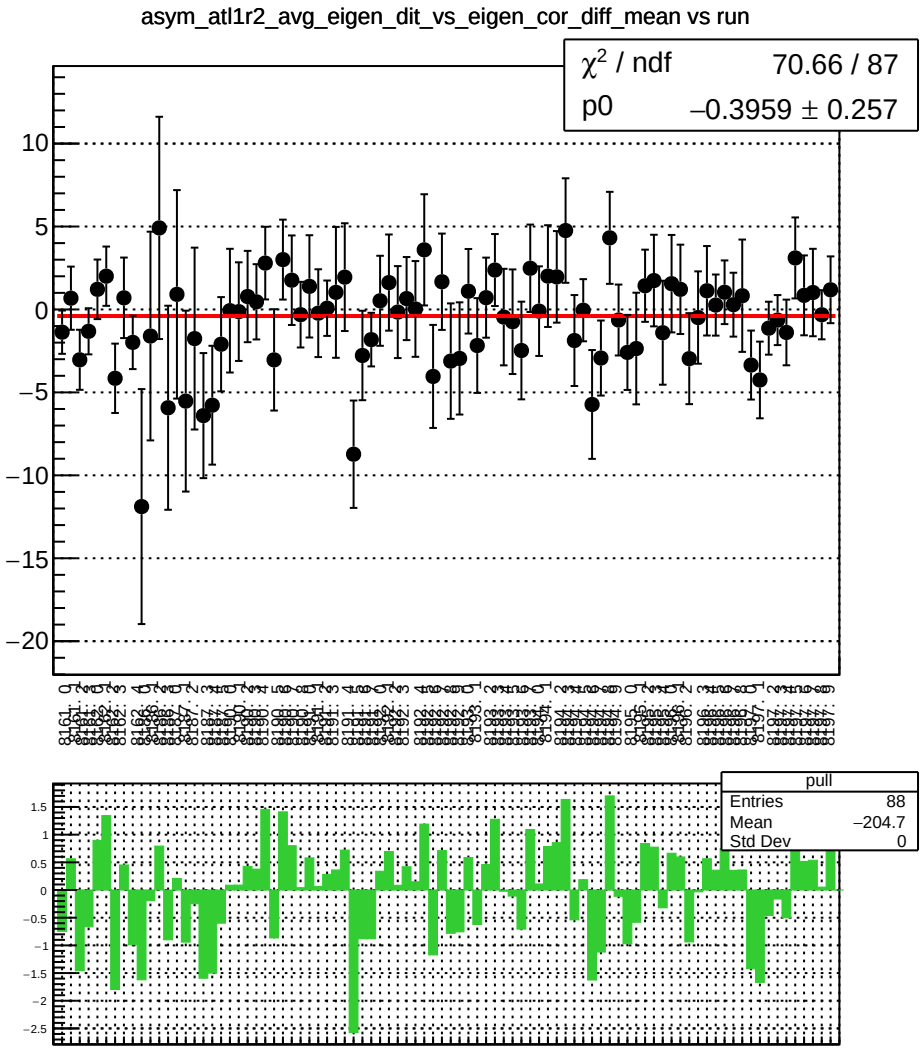

pull1D
Entries 88
Mean 0.00855
Std Dev 0.9802
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

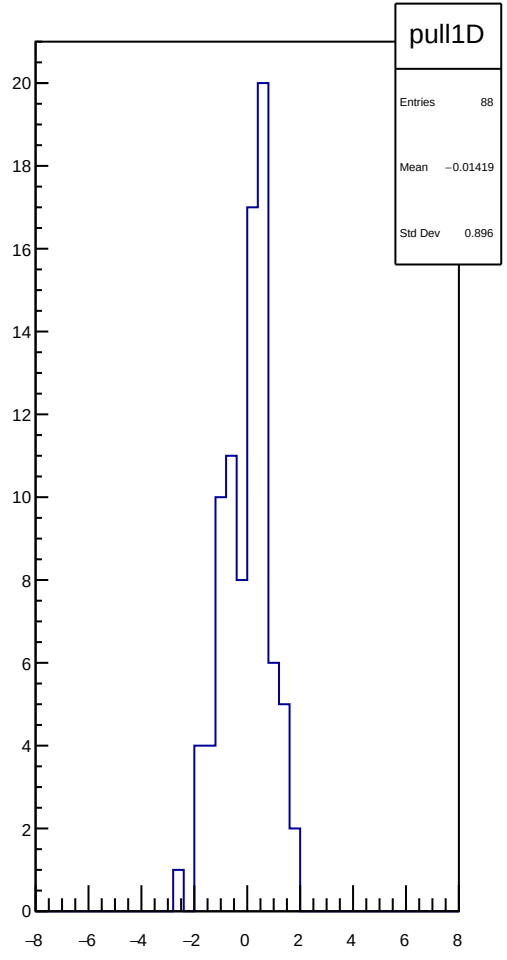

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.946e+04 / 87
p0 0.02054 ± 1.625e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

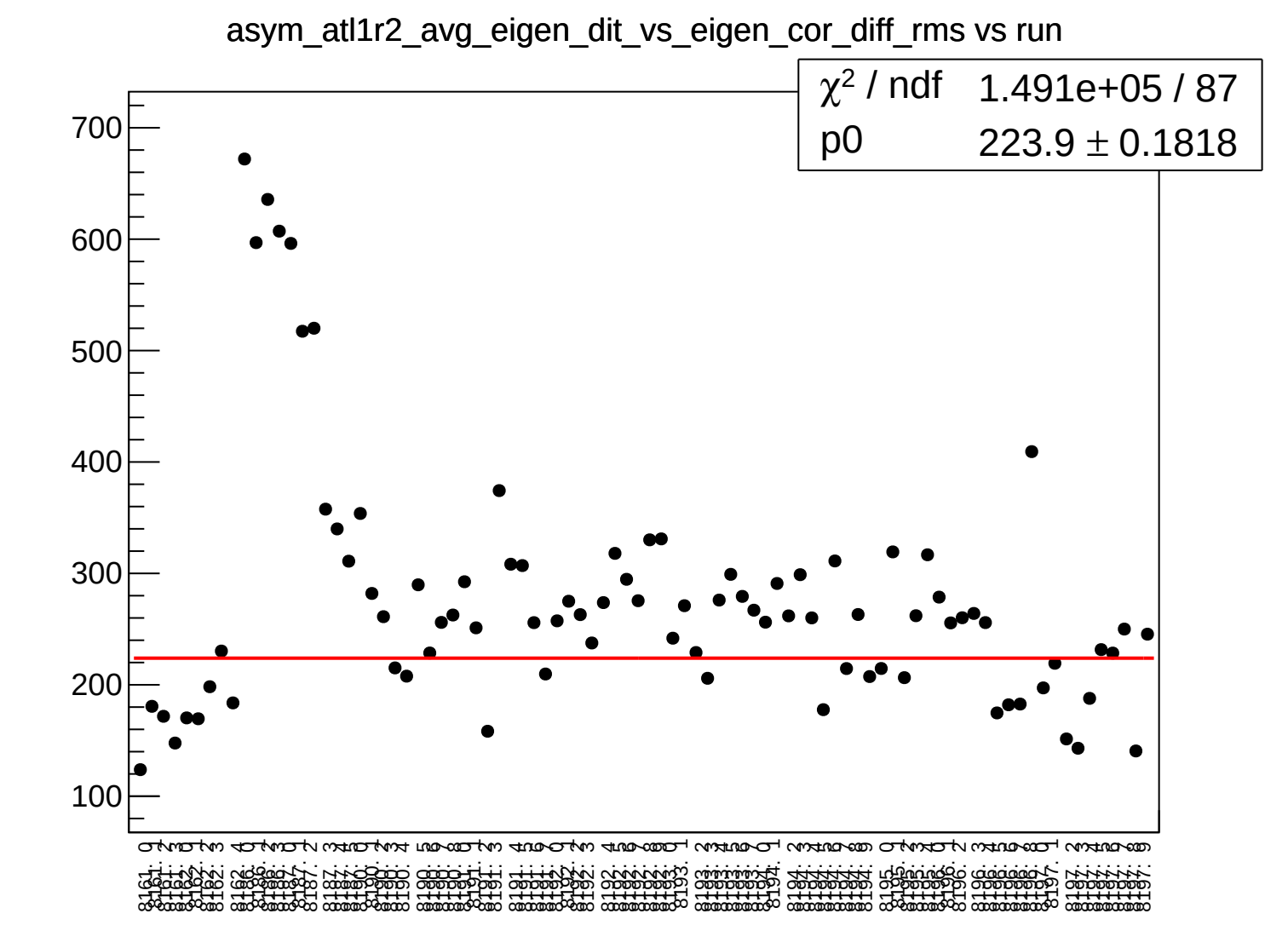

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.66 / 87
p0 −0.3959 ± 0.257
pull
Entries 88
Mean −204.7
Std Dev 0

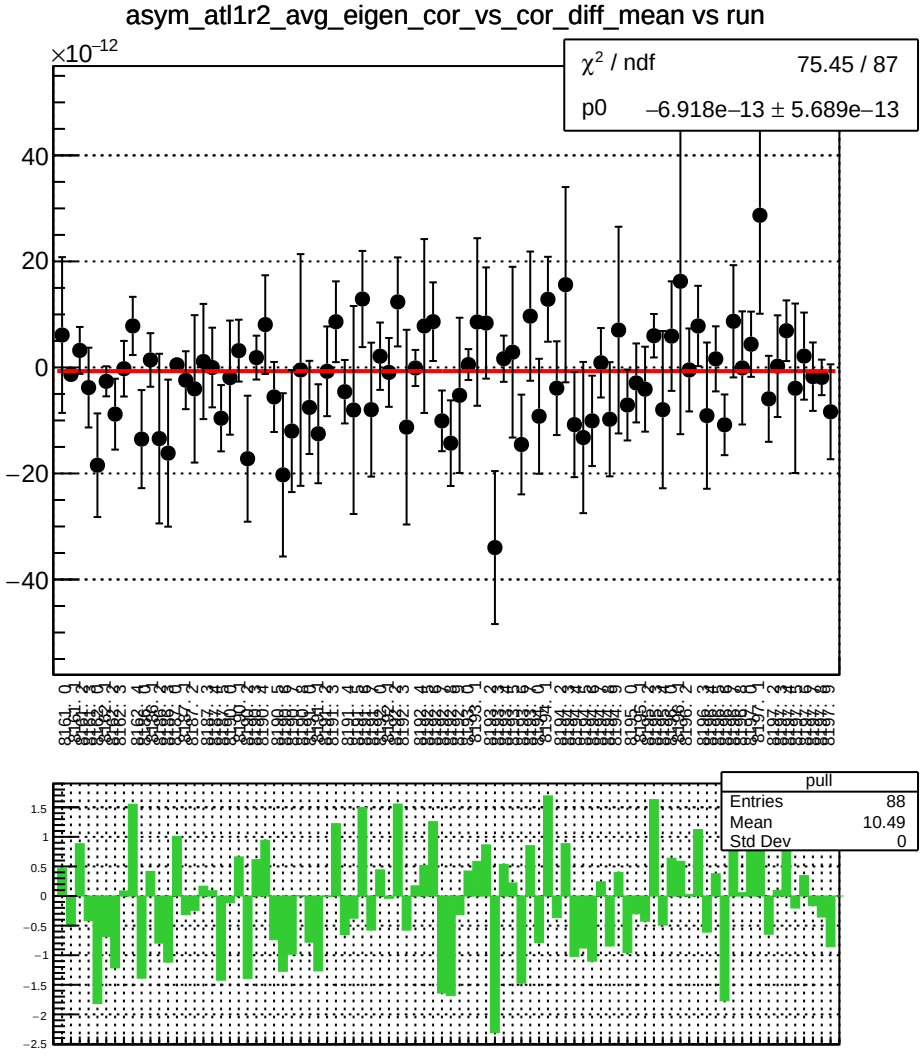

pull1D
Entries 88
Mean −0.01419
Std Dev 0.896

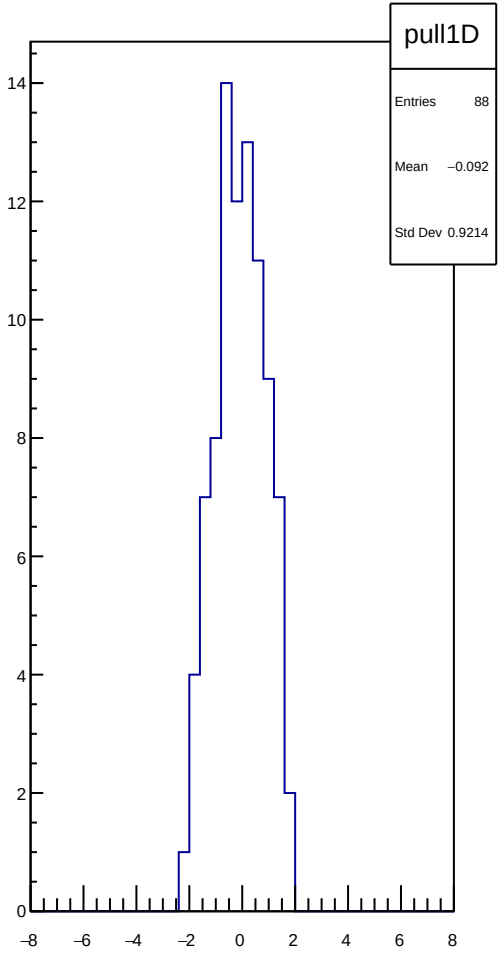

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.491e+05 / 87
p0 223.9 ± 0.1818
700
600
500
400
300
200
100

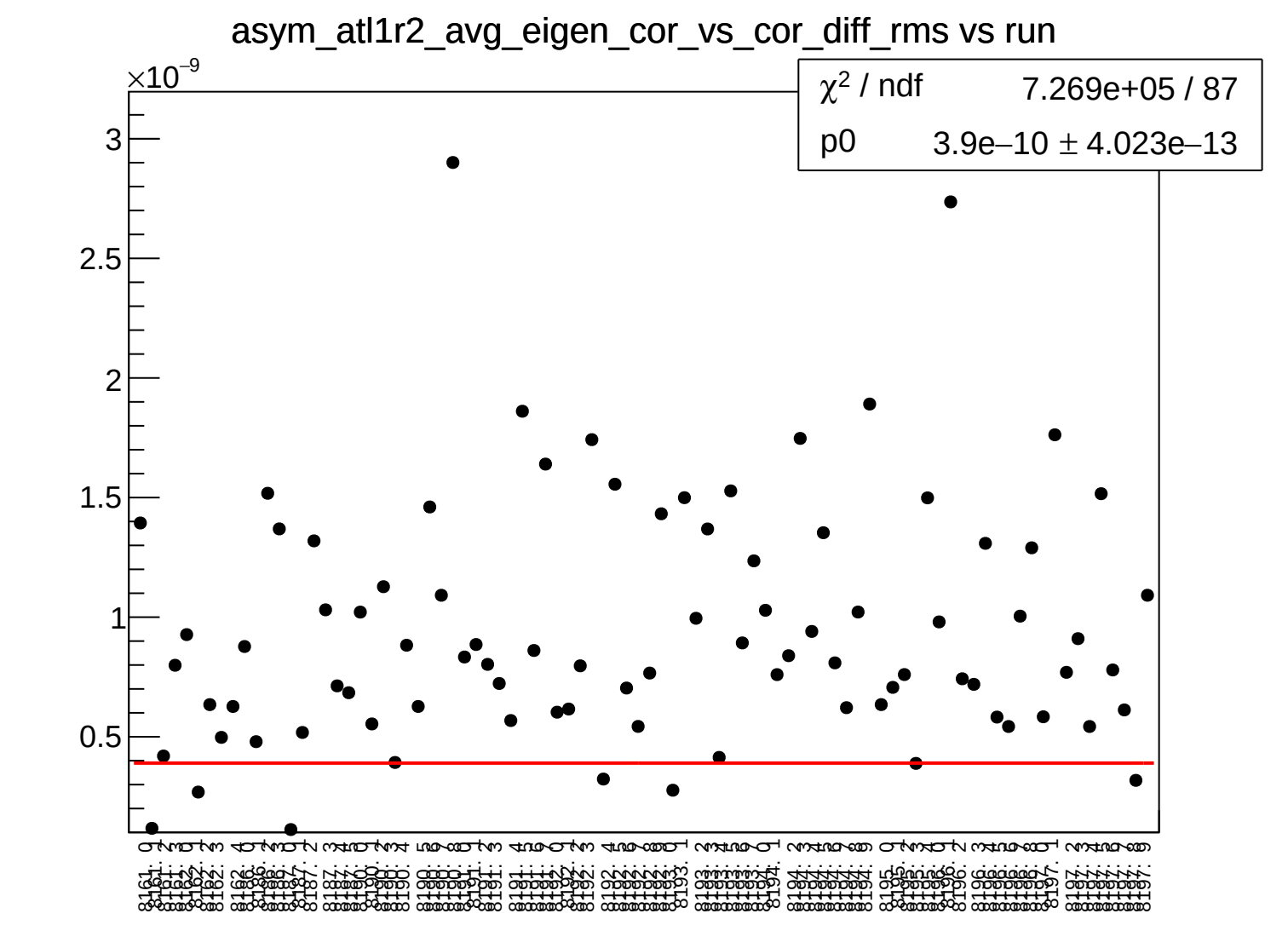

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.66 / 87
p0 −0.3959 ± 0.257
pull
Entries 88
Mean −204.7
Std Dev 0

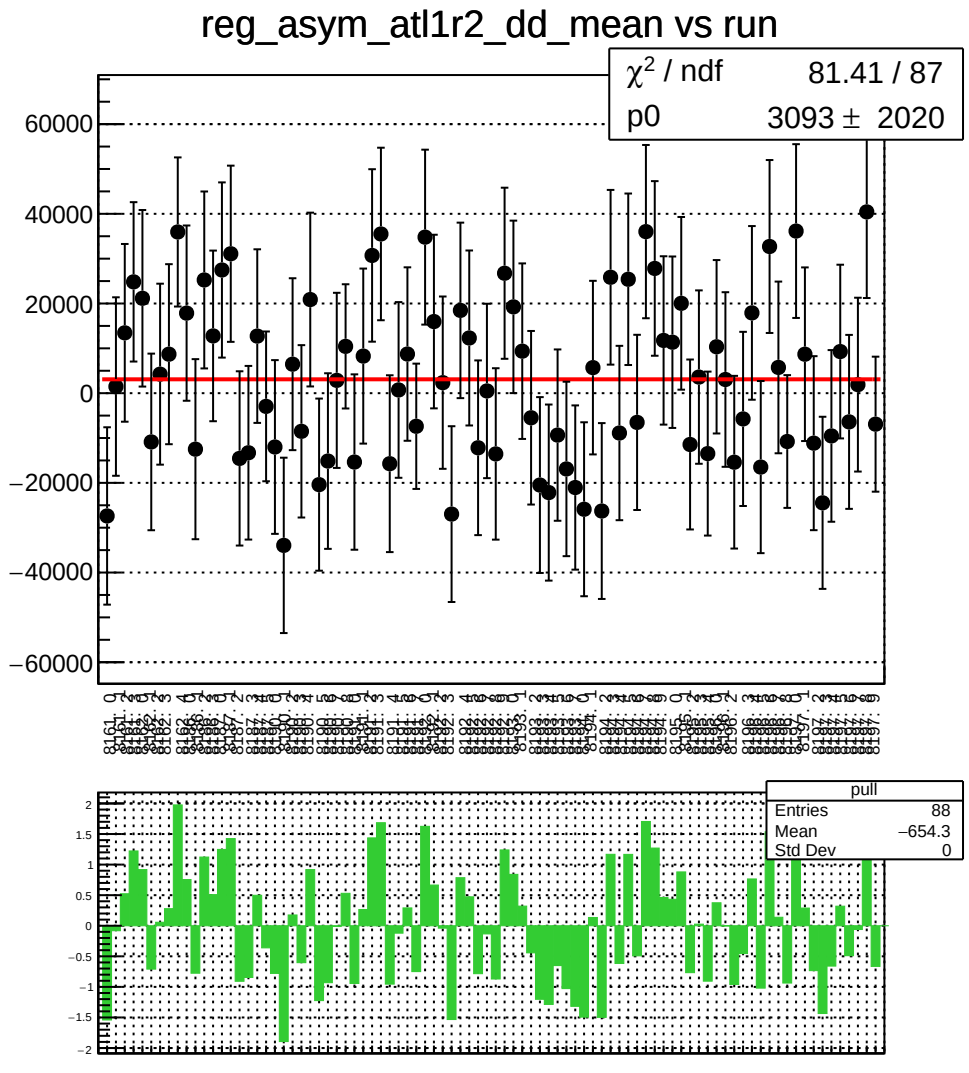

pull1D
Entries 88
Mean −0.01419
Std Dev 0.896

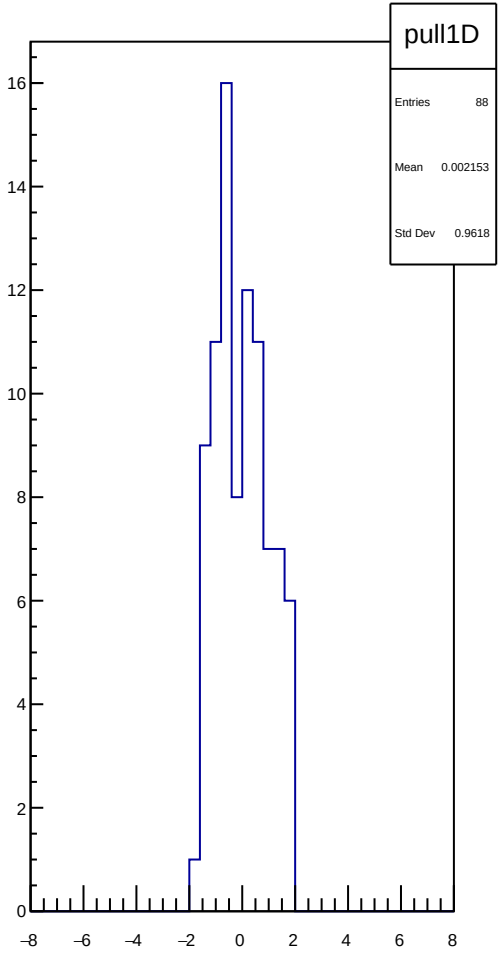

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.491e+05 / 87
p0 223.9 ± 0.1818
700
600
500
400
300
200
100

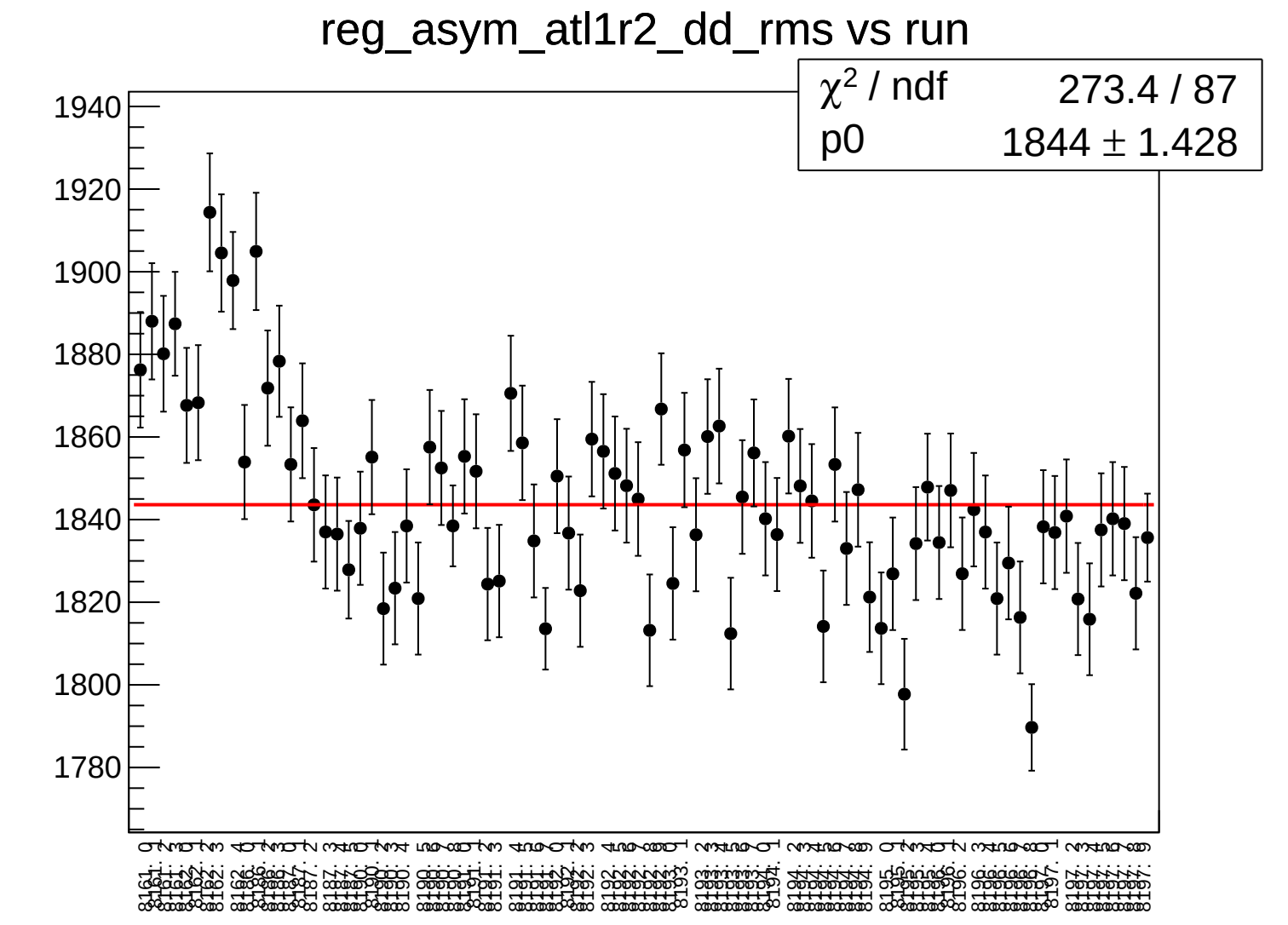

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.45 / 87
p0 −6.918e−13 ± 5.689e−13
40
20
0
−20
−40
pull
Entries 88
Mean 10.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

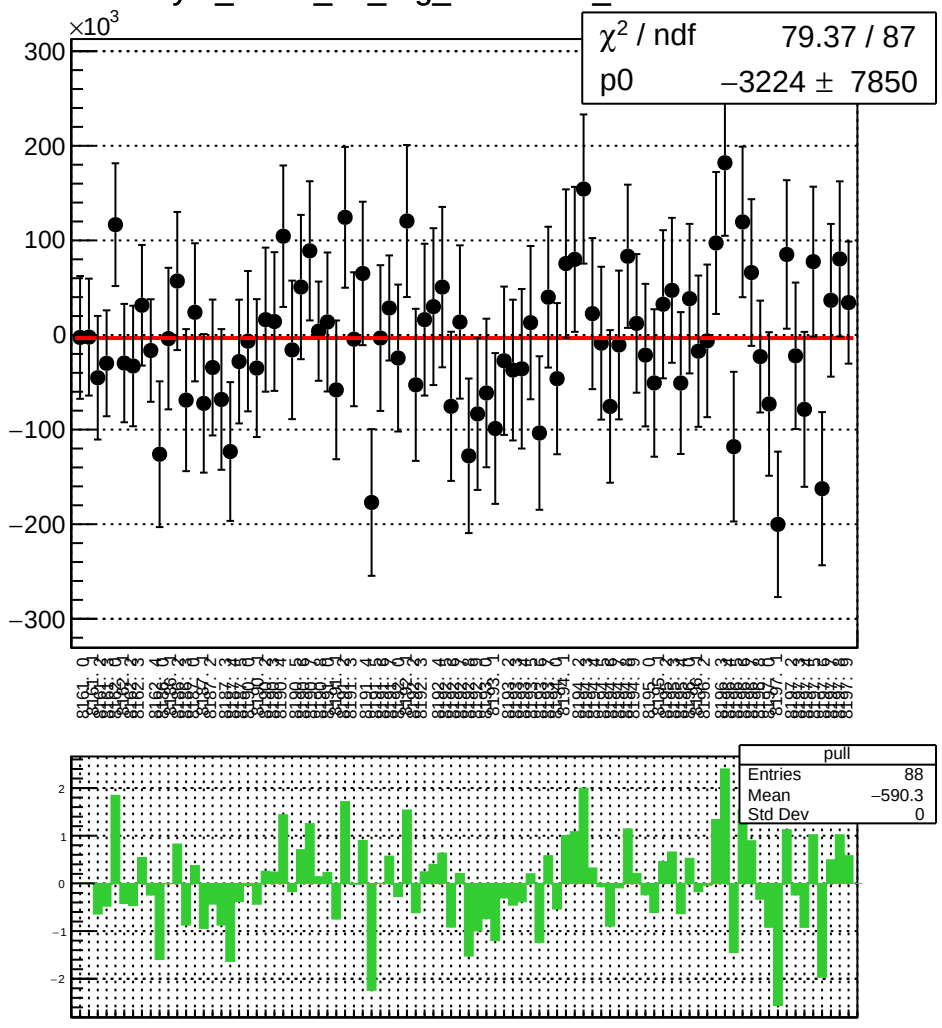

pull1D
Entries 88
Mean −0.092
Std Dev 0.9214
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

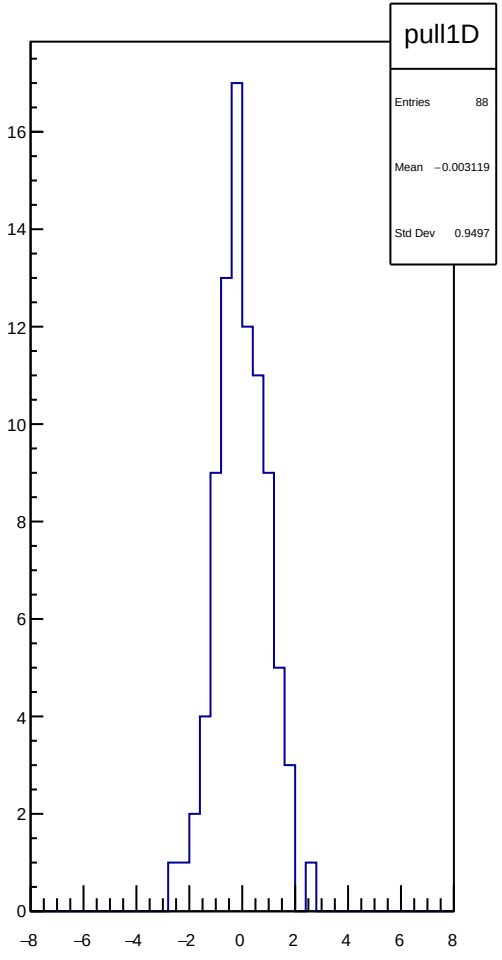

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.269e+05 / 87
p0 3.9e−10 ± 4.023e−13
3
2.5
2
1.5
1
0.5

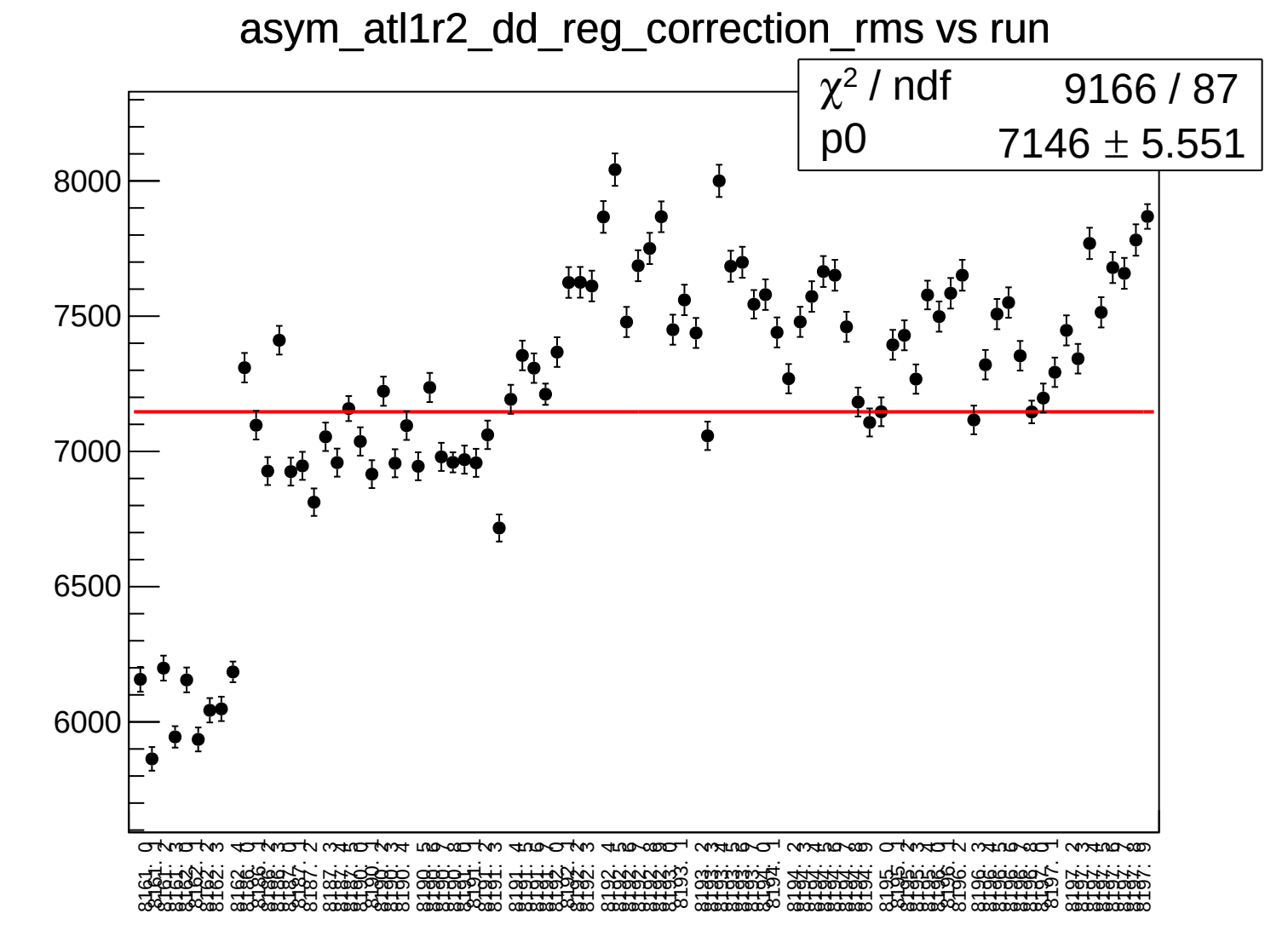

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 81.41 / 87
p0 3093 ± 2020
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −654.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

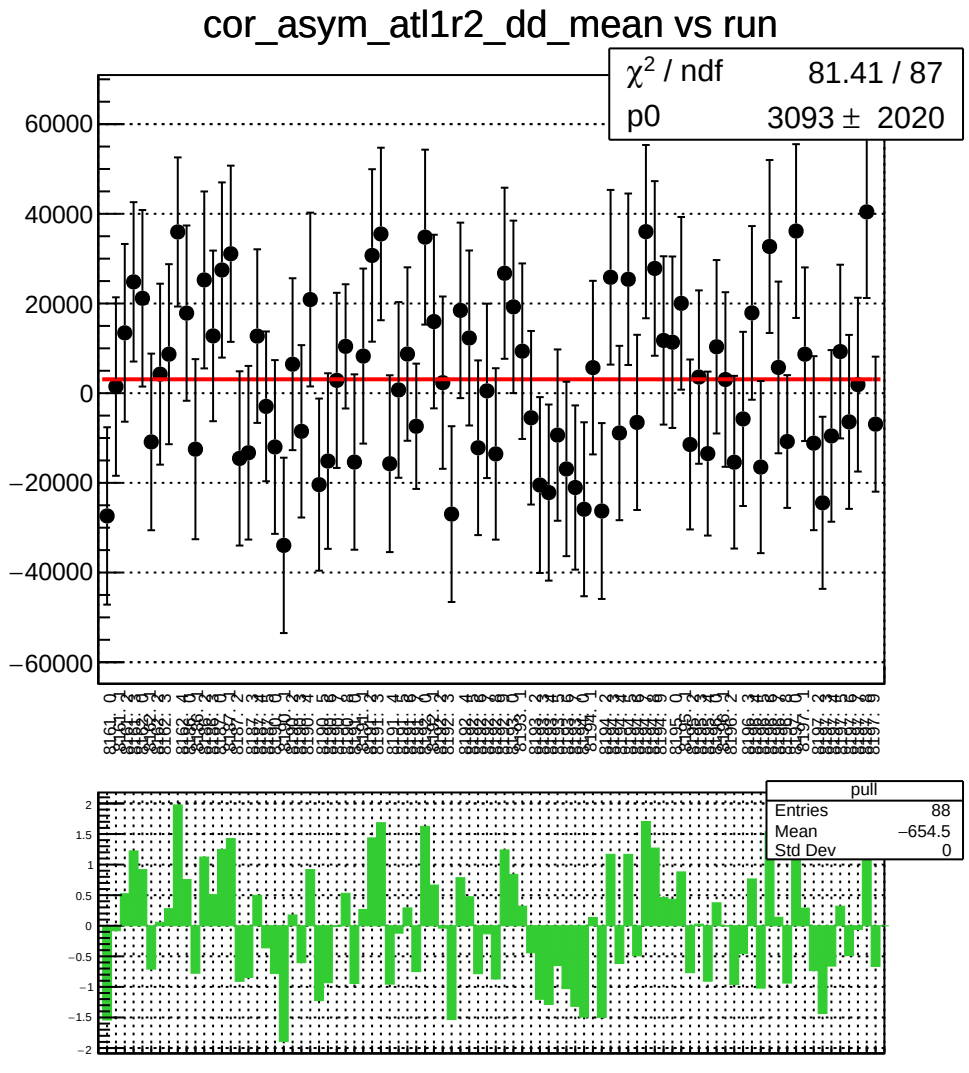

pull1D
Entries 88
Mean 0.002153
Std Dev 0.9618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

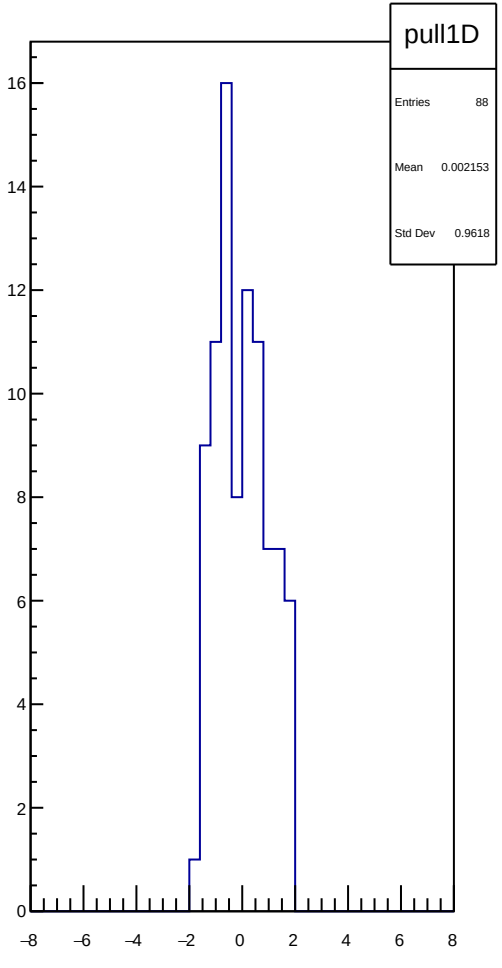

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 273.4 / 87
p0 1844 ± 1.428
1940
1920
1900
1880
1860
1840
1820
1800
1780

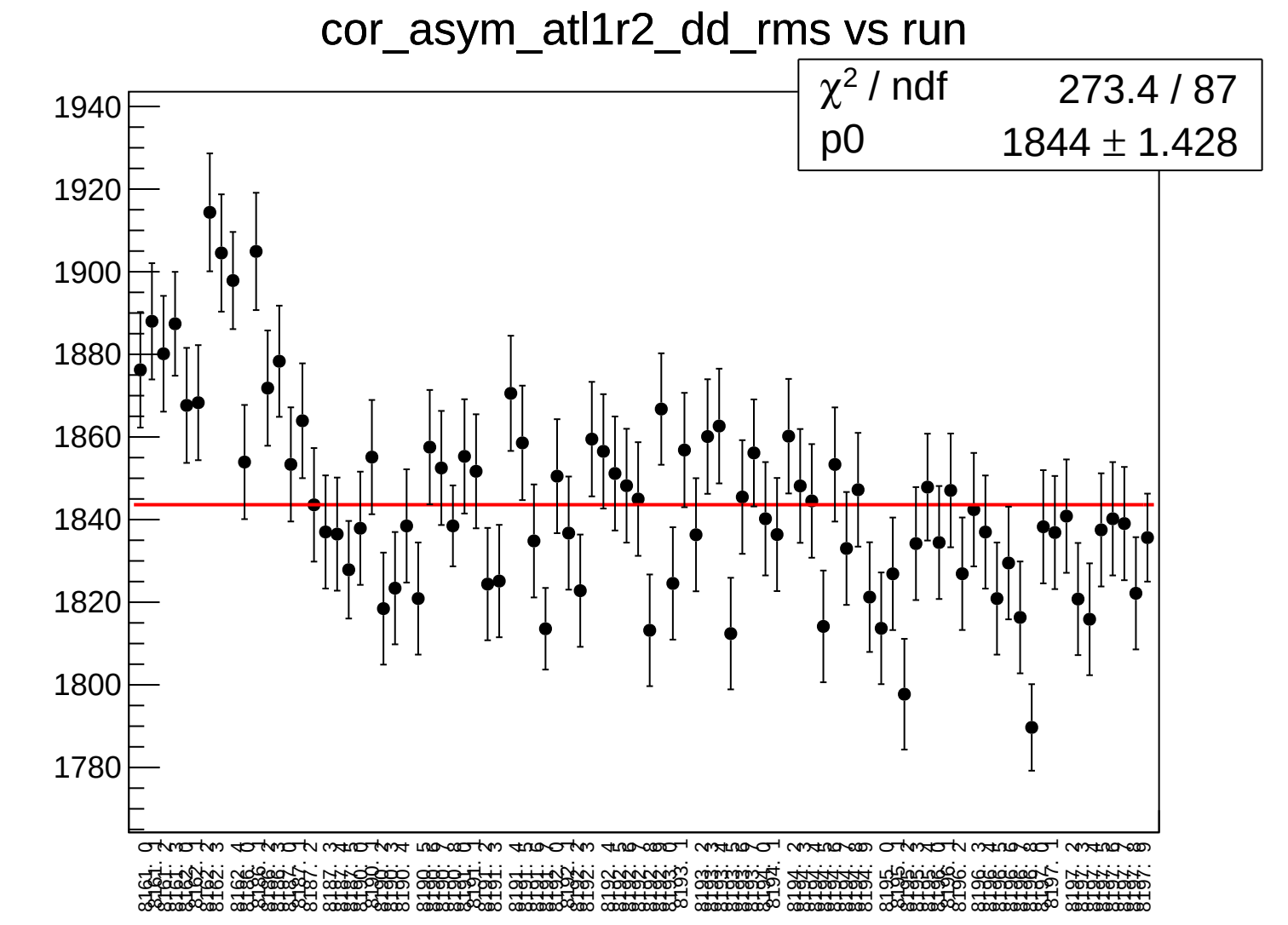

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.37 / 87
p0 −3224 ± 7850
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −590.3
Std Dev 0
2
1
0
−1
−2

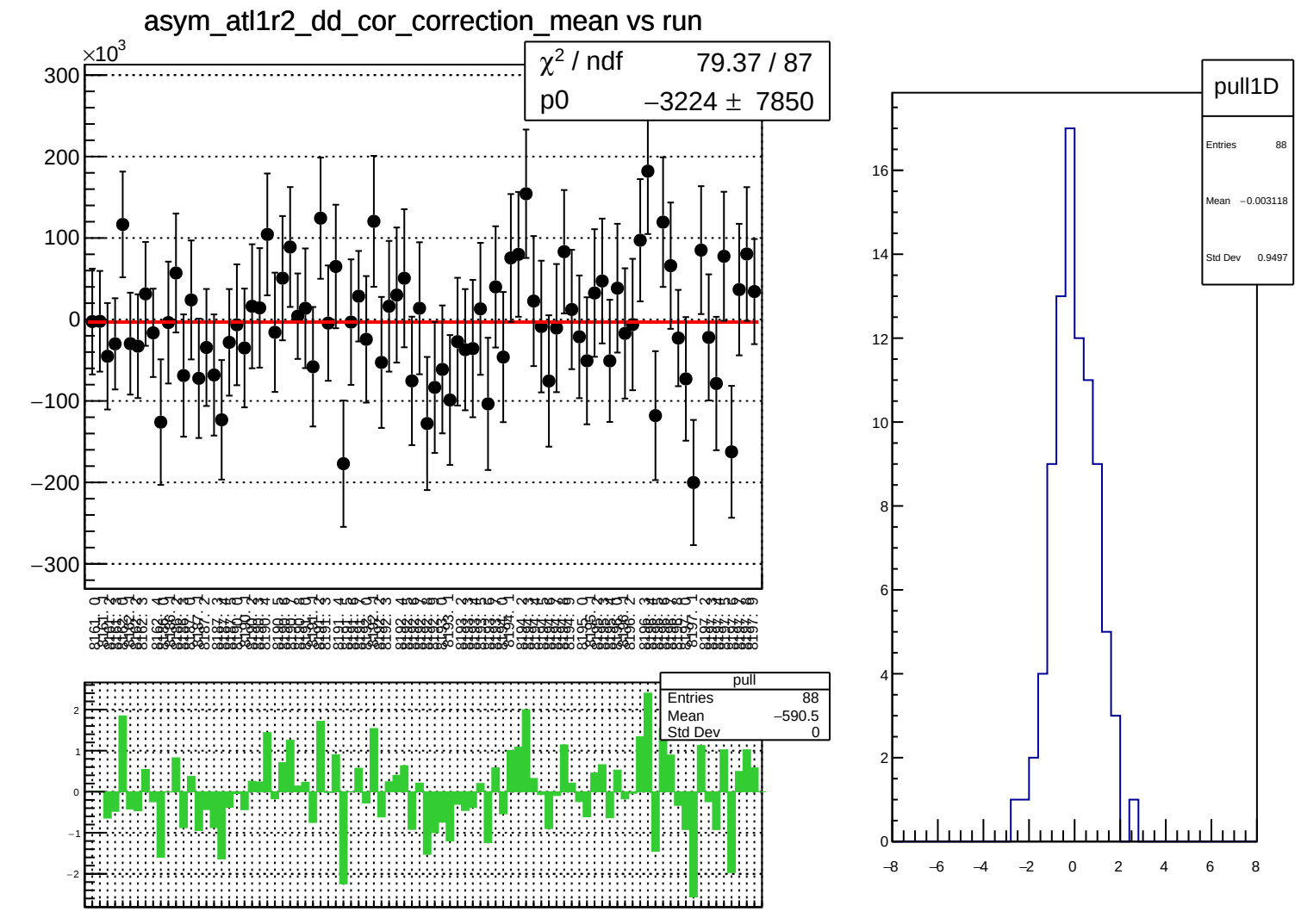

pull1D
Entries 88
Mean −0.003119
Std Dev 0.9497
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

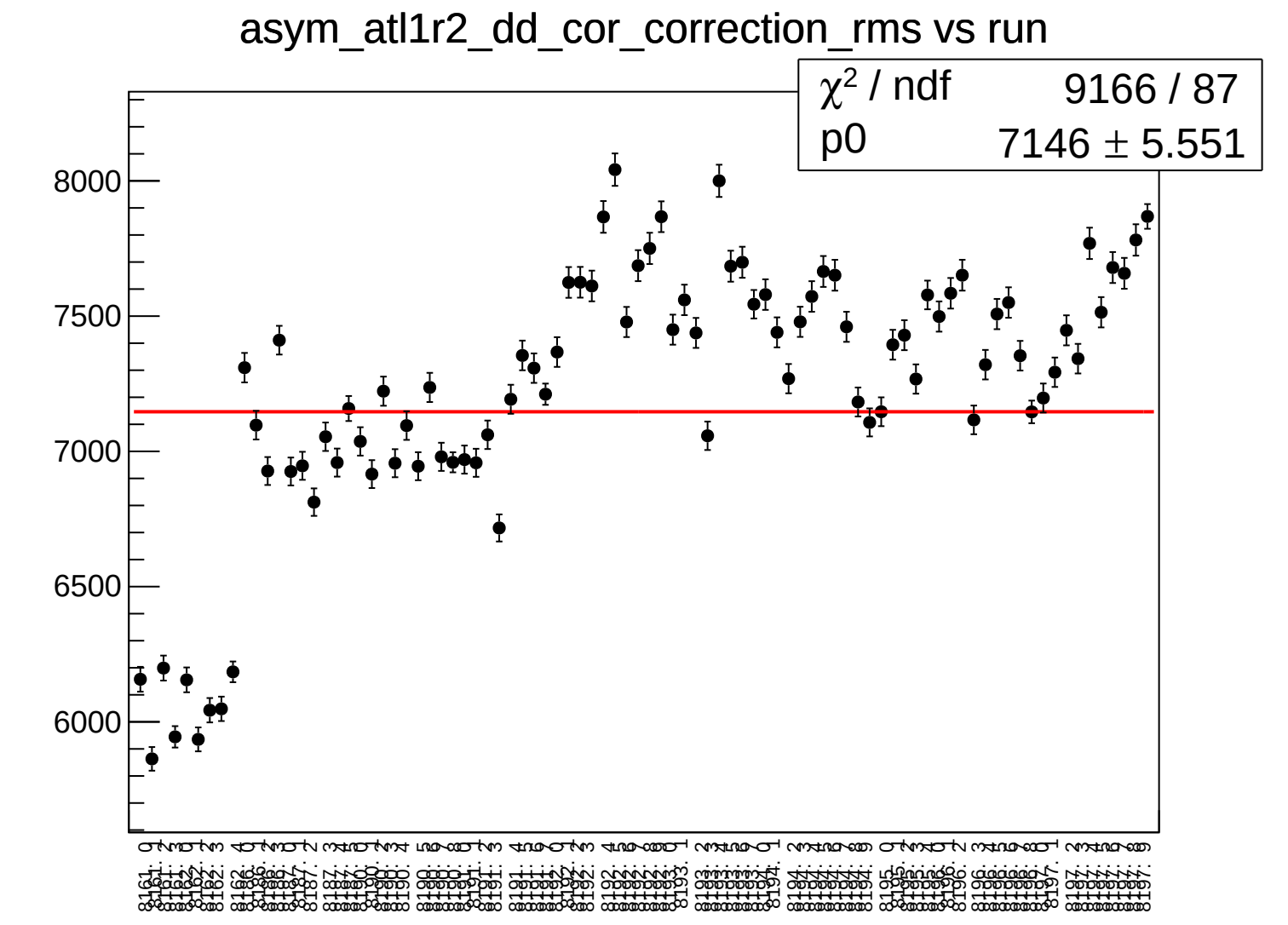

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 9166 / 87
p0 7146 ± 5.551
8000
7500
7000
6500
6000

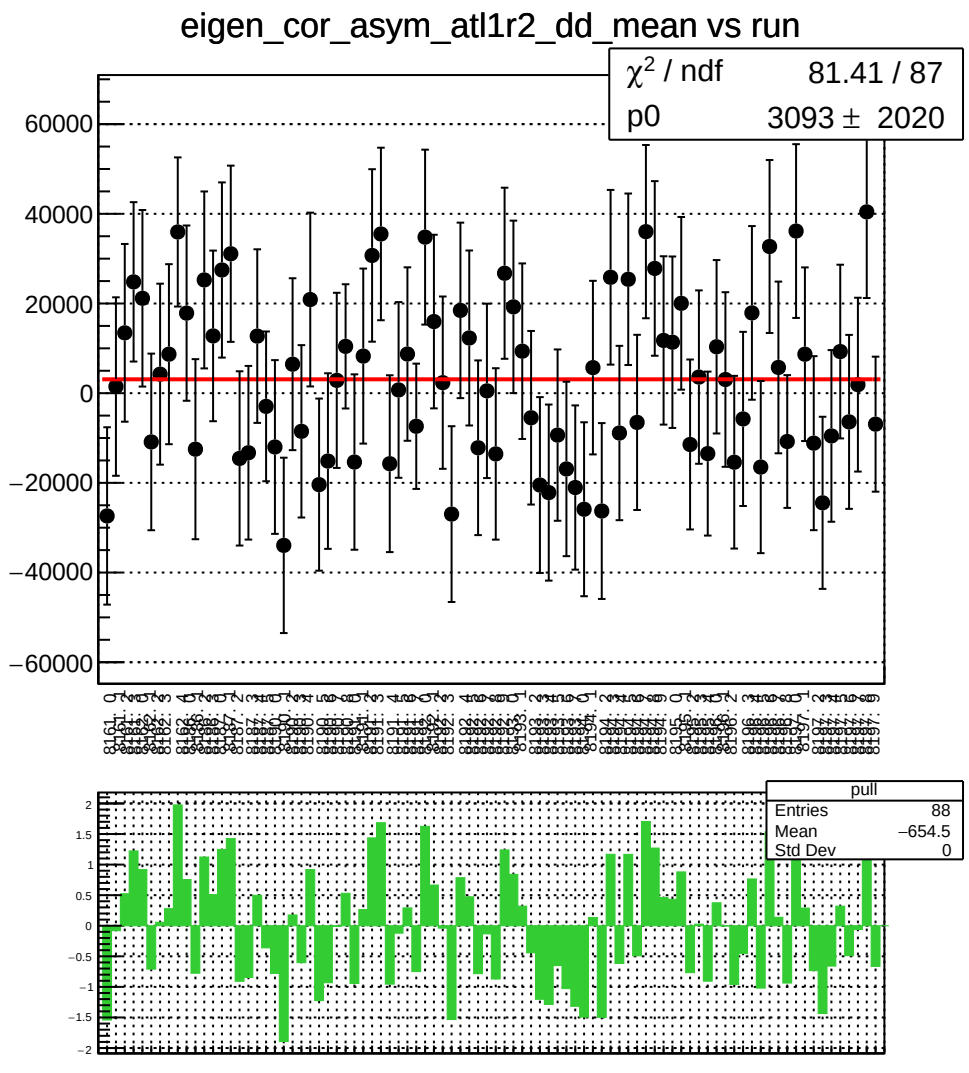

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 81.41 / 87
p0 3093 ± 2020
pull
Entries 88
Mean −654.5
Std Dev 0

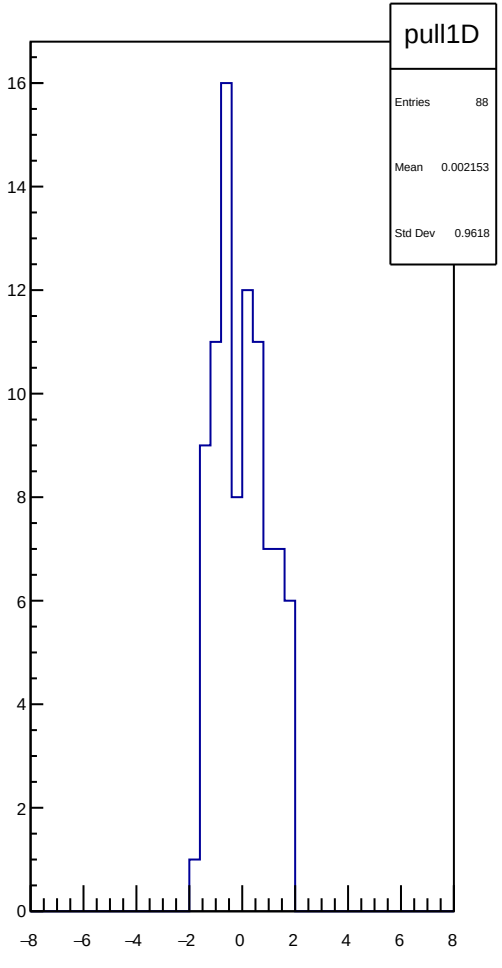

pull1D
Entries 88
Mean 0.002153
Std Dev 0.9618


cor_asym_atl1r2_dd_rms vs run
χ² / ndf 273.4 / 87
p0 1844 ± 1.428
1940
1920
1900
1880
1860
1840
1820
1800
1780

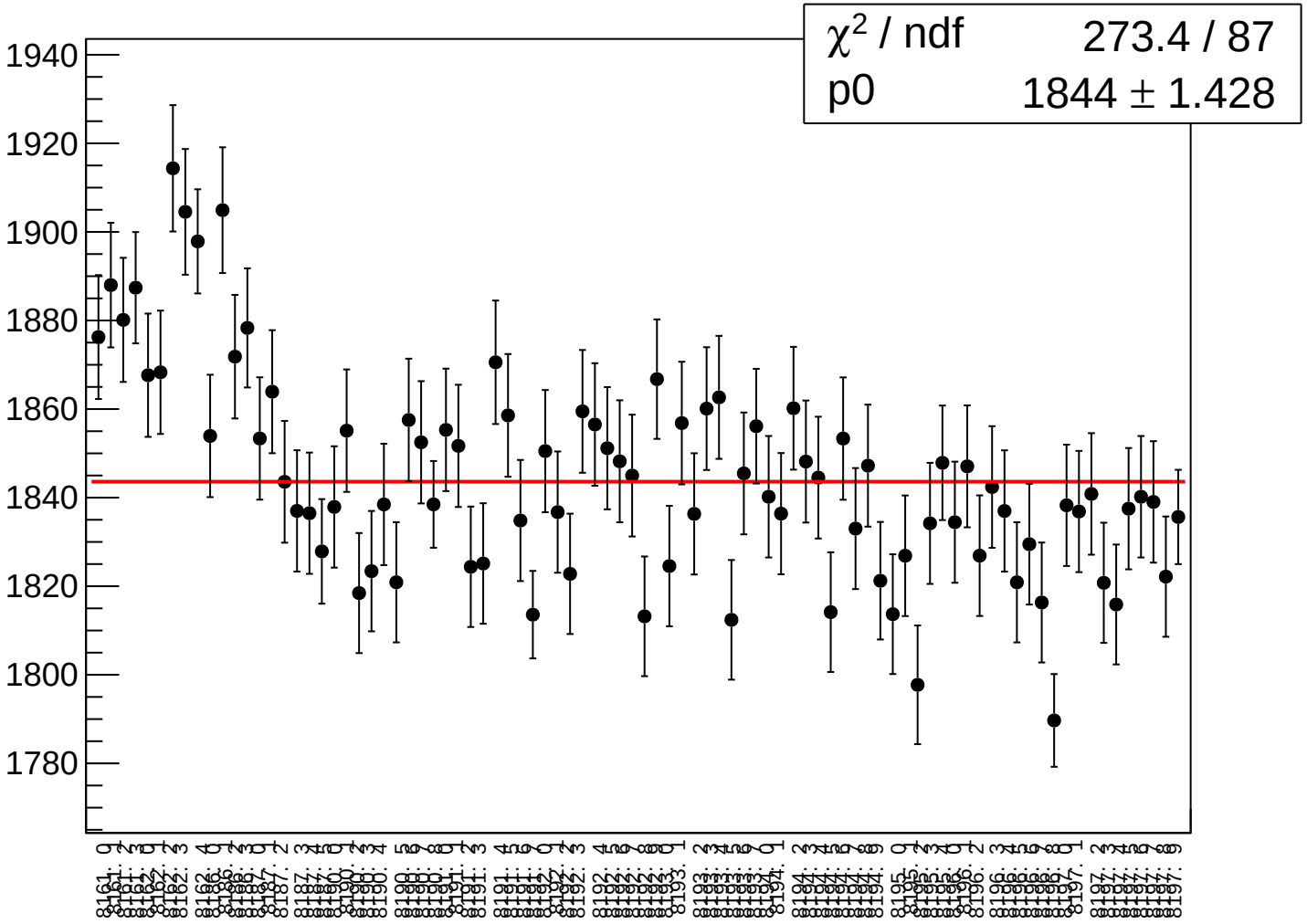

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 79.37 / 87
p0 −3224 ± 7850
pull
Entries 88
Mean −590.5
Std Dev 0
pull1D
Entries 88
Mean −0.003118
Std Dev 0.9497

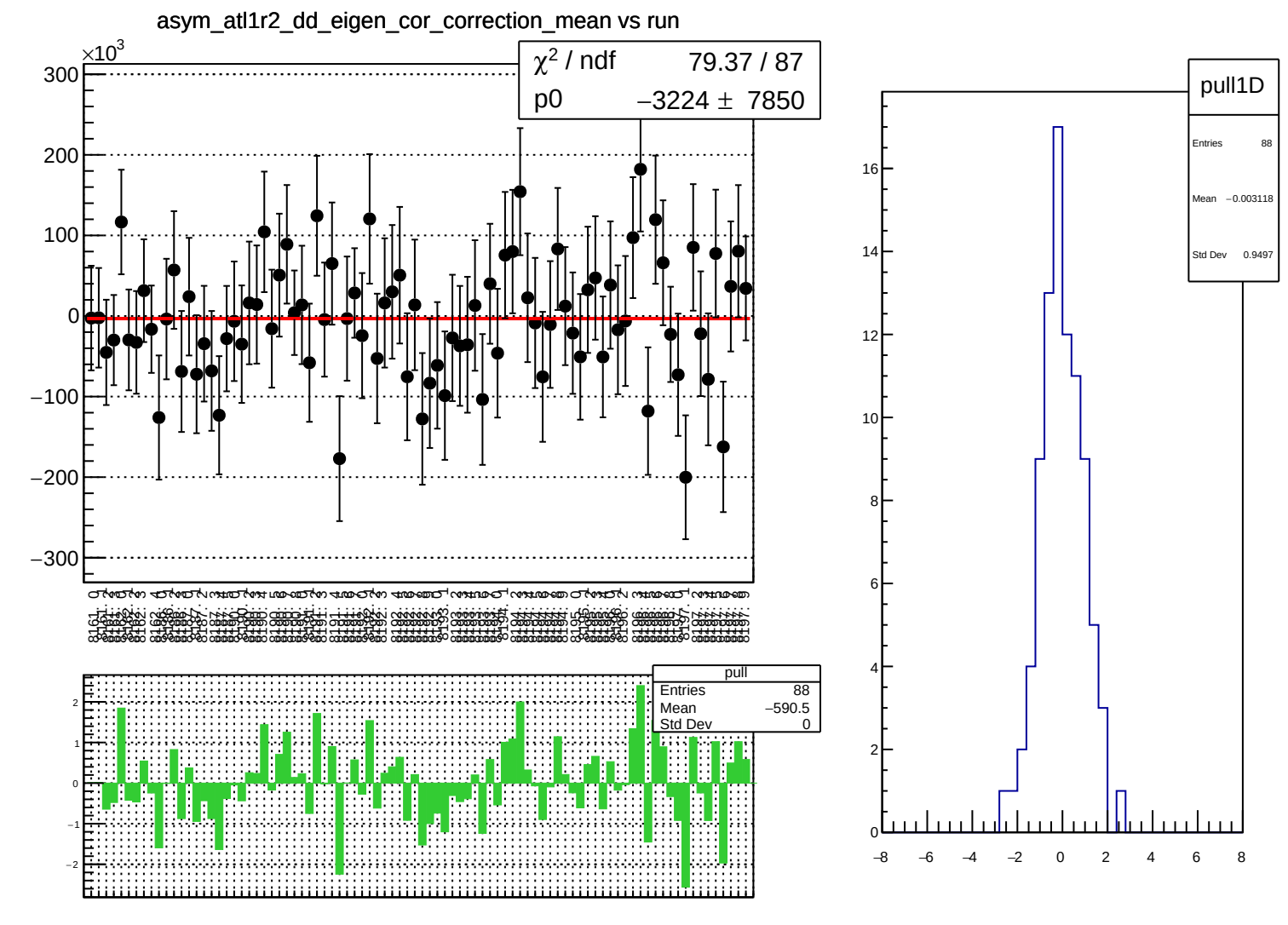

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 9166 / 87
p0 7146 ± 5.551
8000
7500
7000
6500
6000

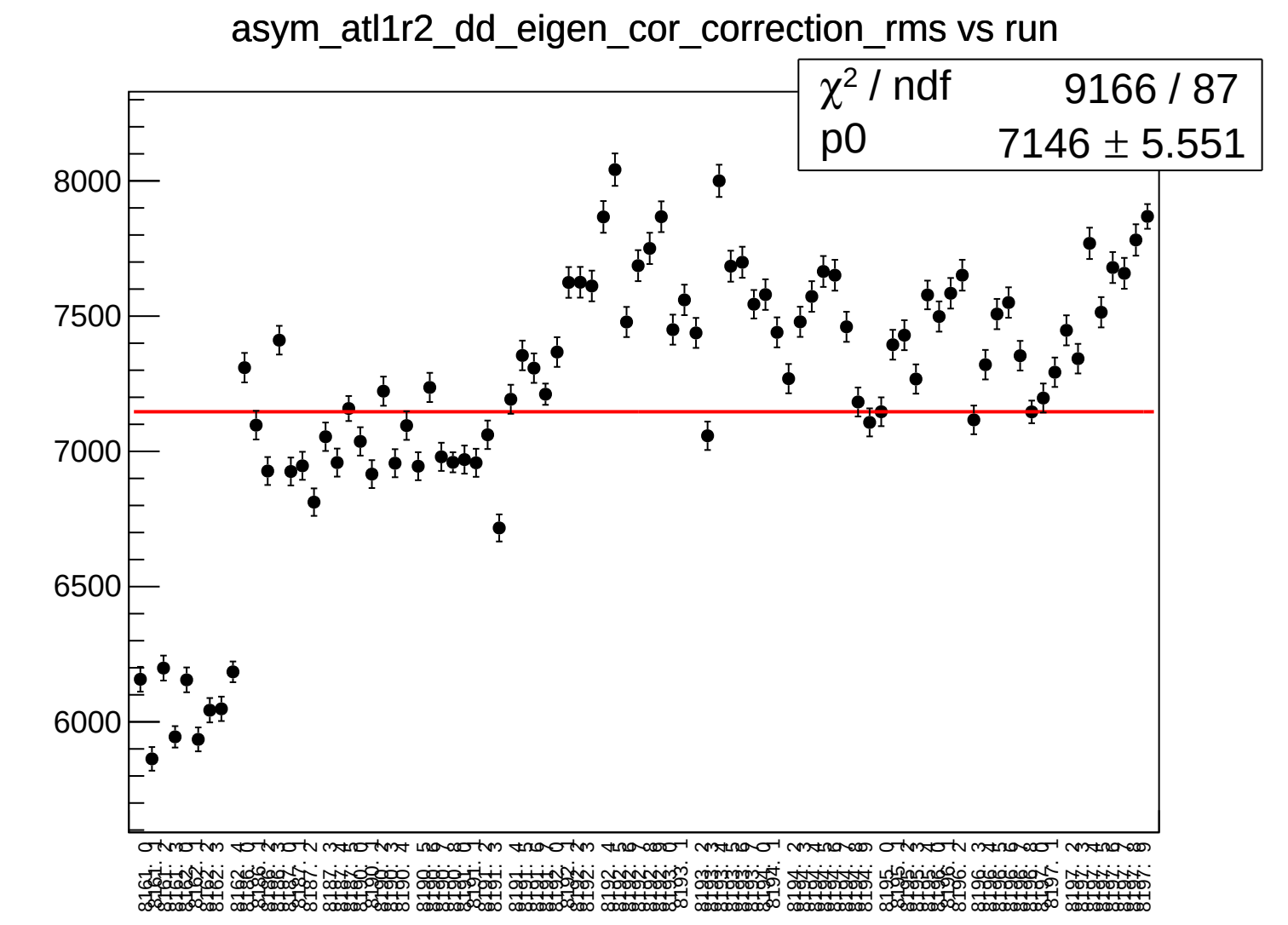

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 81.41 / 87
p0 3093 ± 2020
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −654.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

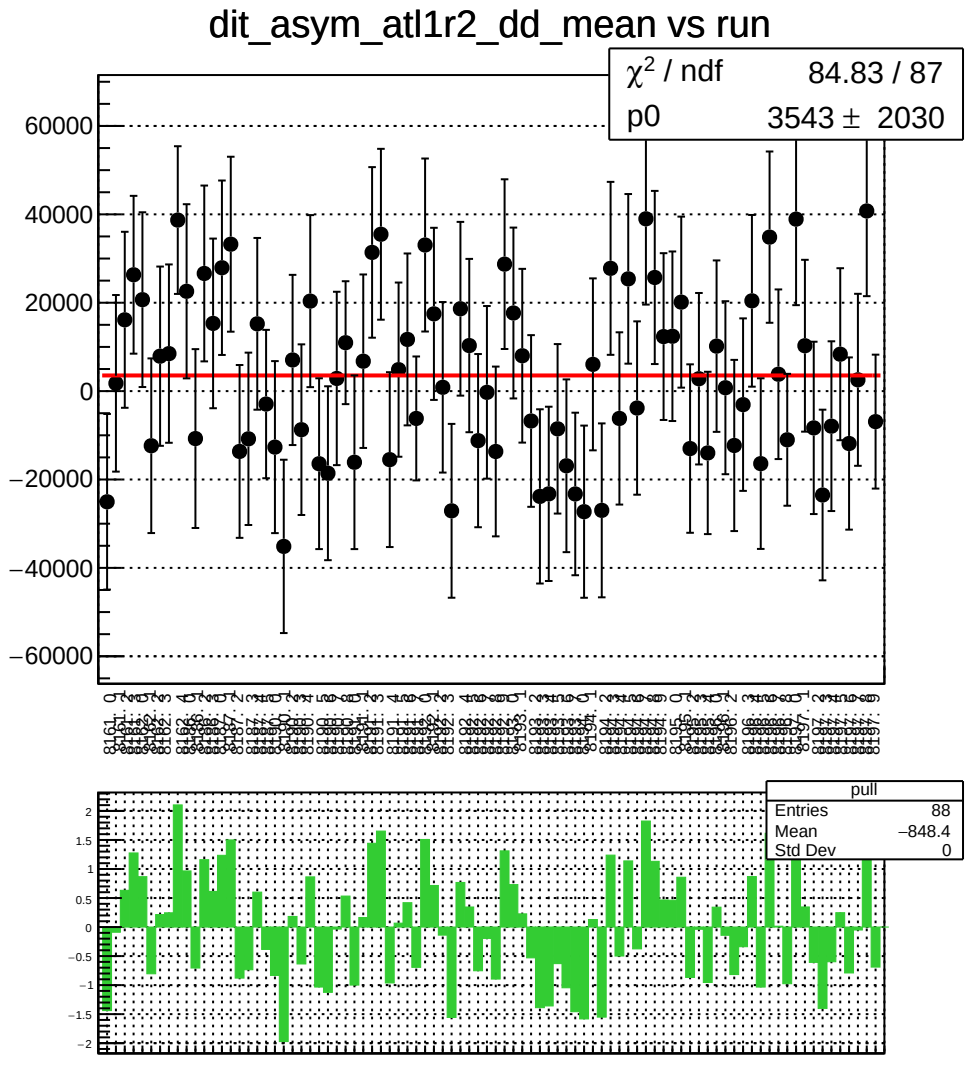

pull1D
Entries 88
Mean 0.002153
Std Dev 0.9618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

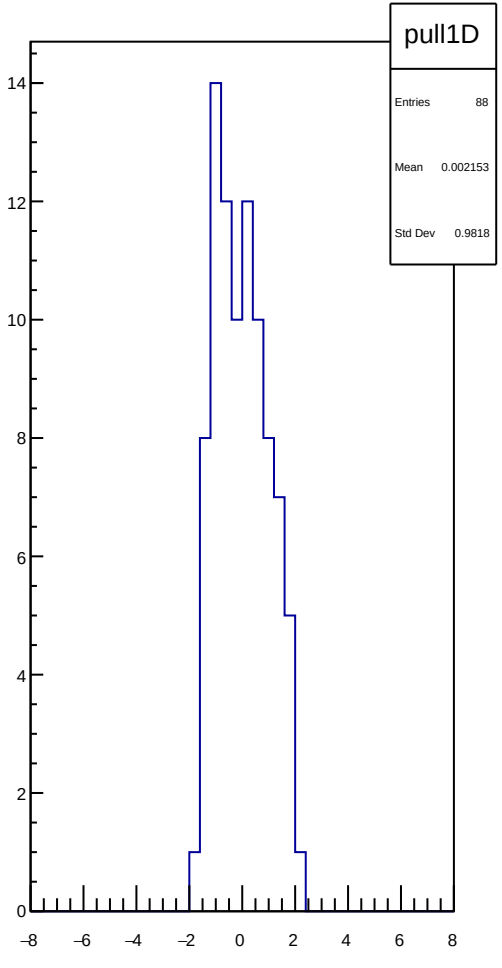
eigen_cor_asym_atl1r2_dd_rms vs run

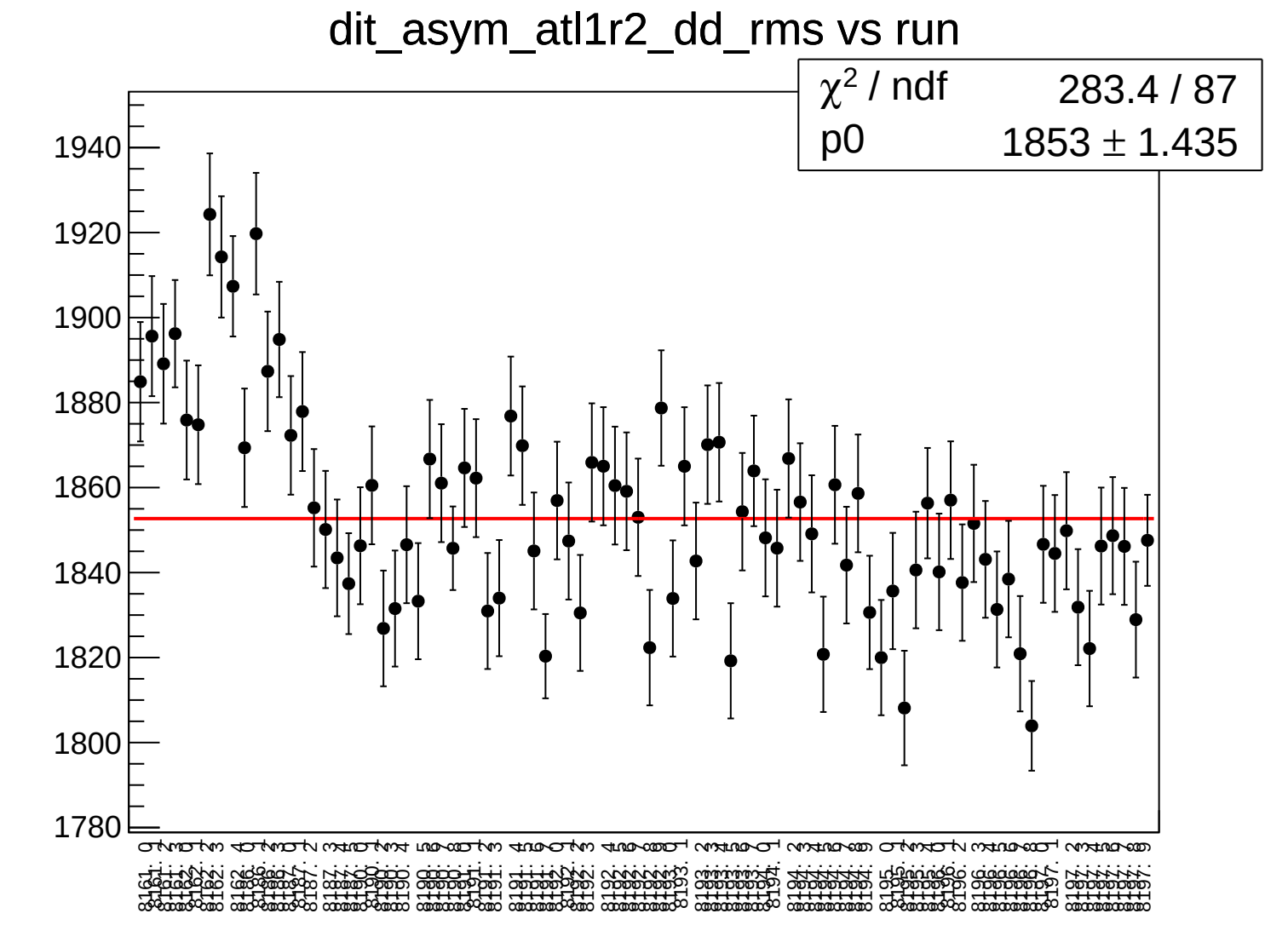


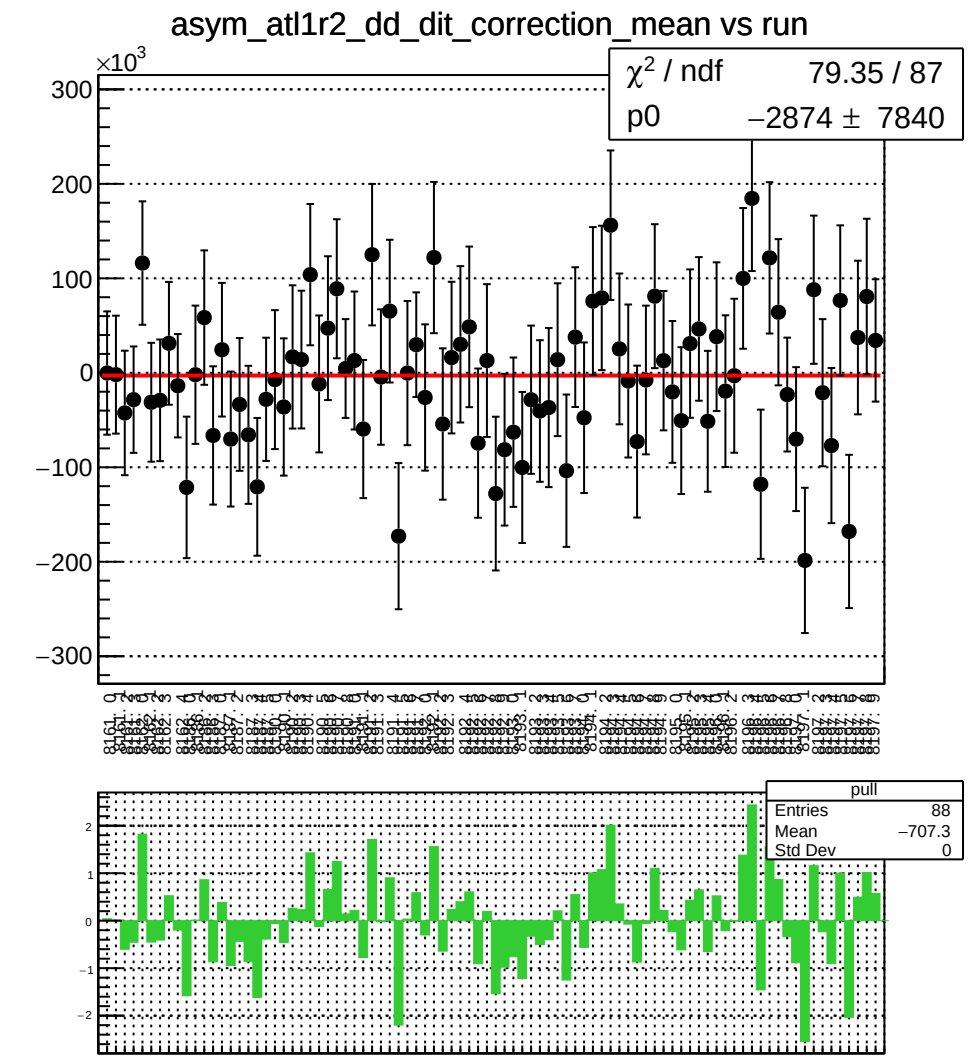

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.37 / 87
p0 −3224 ± 7850
pull
Entries 88
Mean −590.5
Std Dev 0
pull1D
Entries 88
Mean −0.003118
Std Dev 0.9497

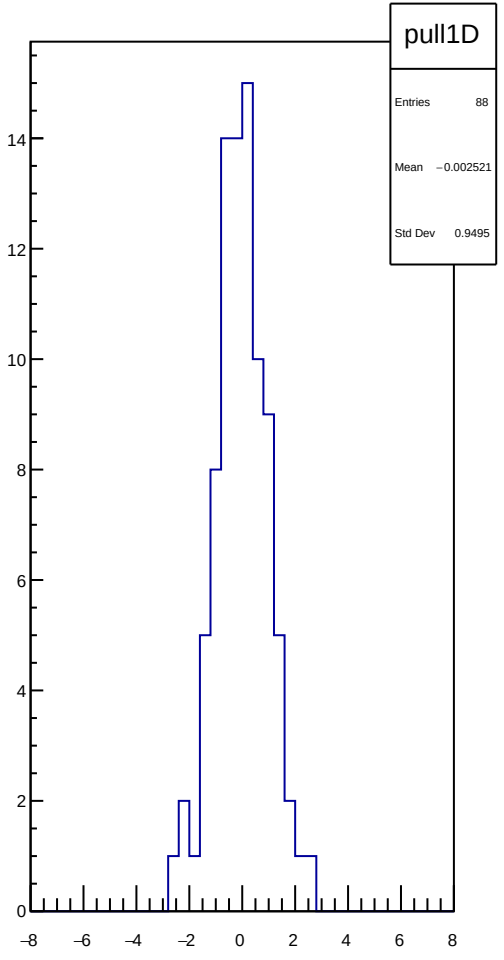

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9166 / 87
p0 7146 ± 5.551
8000
7500
7000
6500
6000

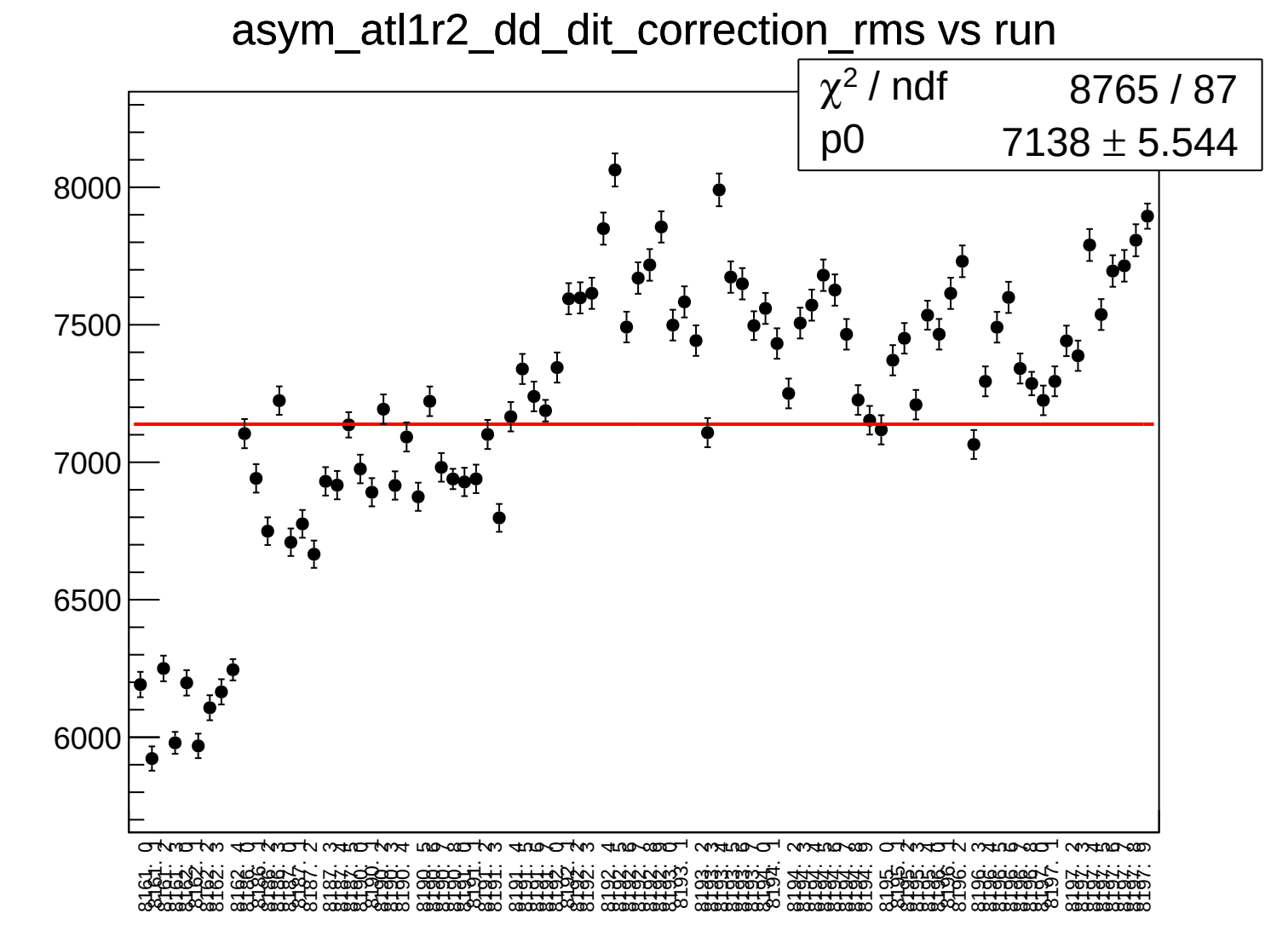

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 84.83 / 87
p0 3543 ± 2030
pull
Entries 88
Mean −848.4
Std Dev 0

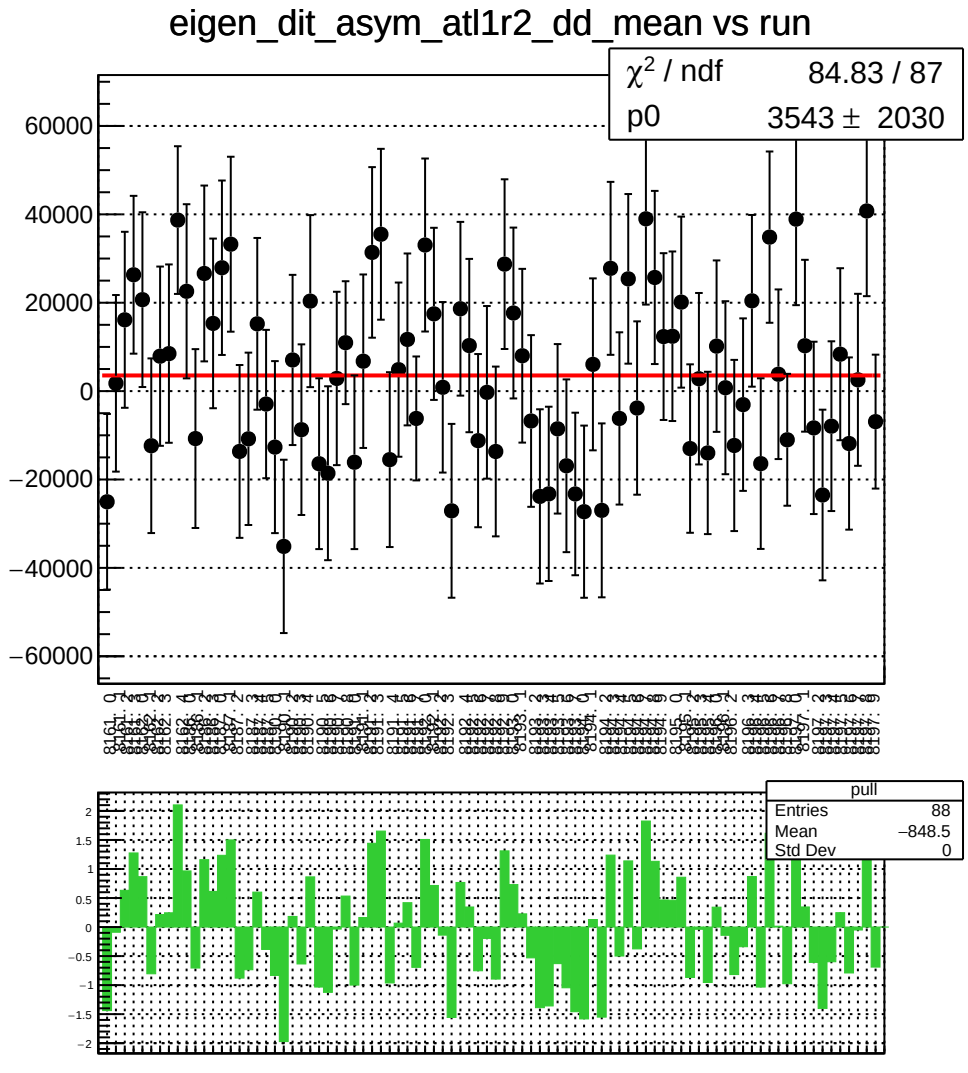

pull1D
Entries 88
Mean 0.002153
Std Dev 0.9818

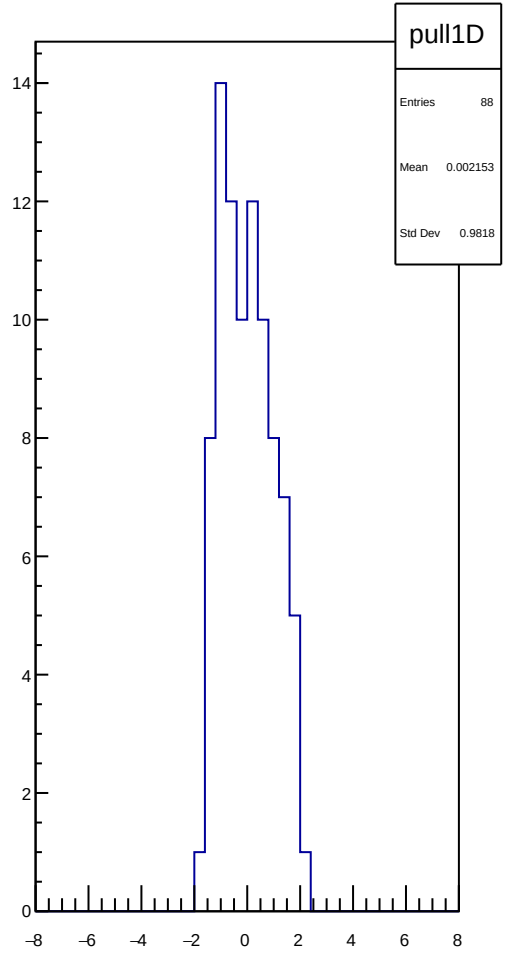

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 283.4 / 87
p0 1853 ± 1.435
1940
1920
1900
1880
1860
1840
1820
1800
1780

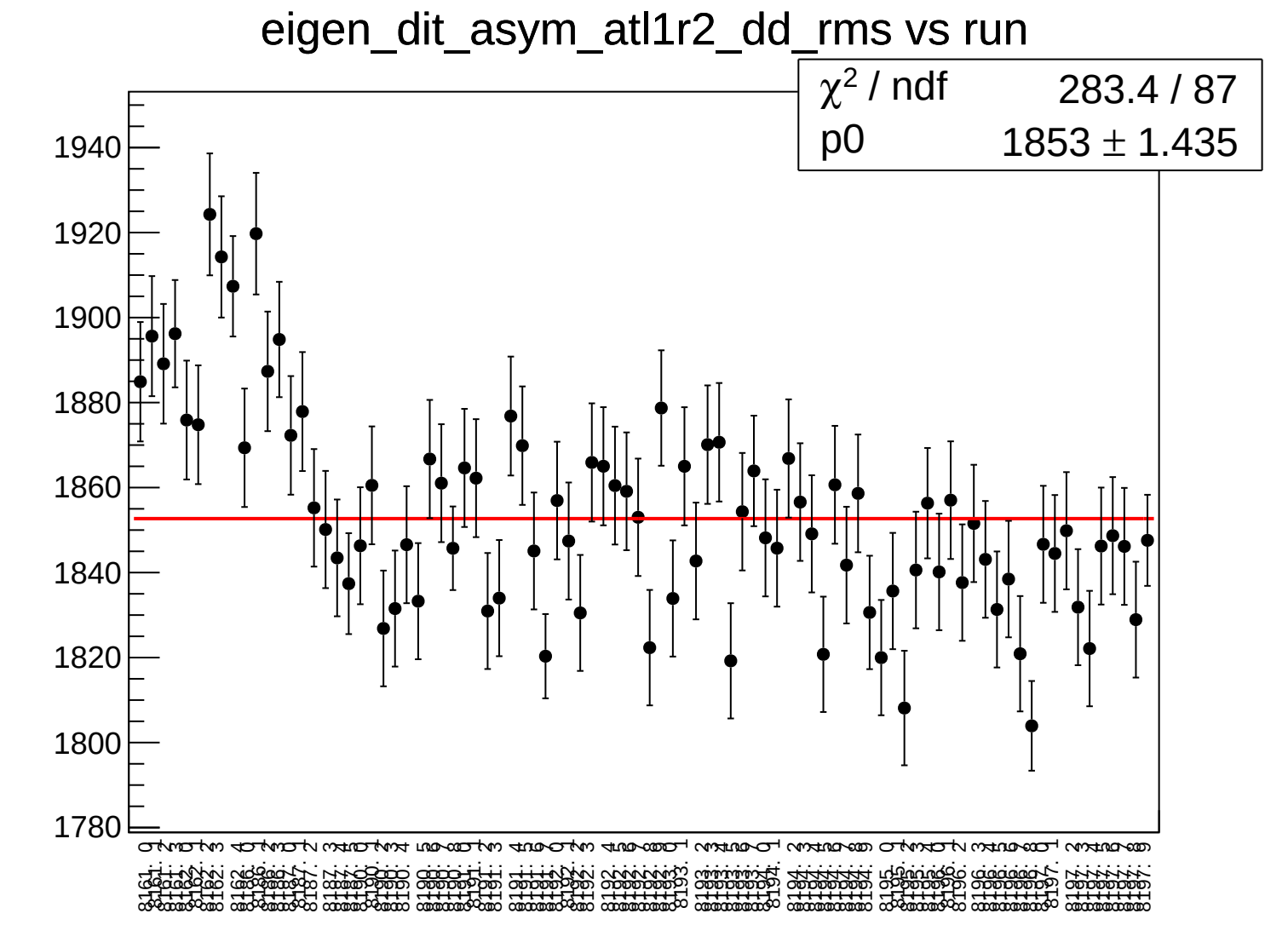

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.35 / 87
p0 −2874 ± 7840
pull
Entries 88
Mean −707.3
Std Dev 0

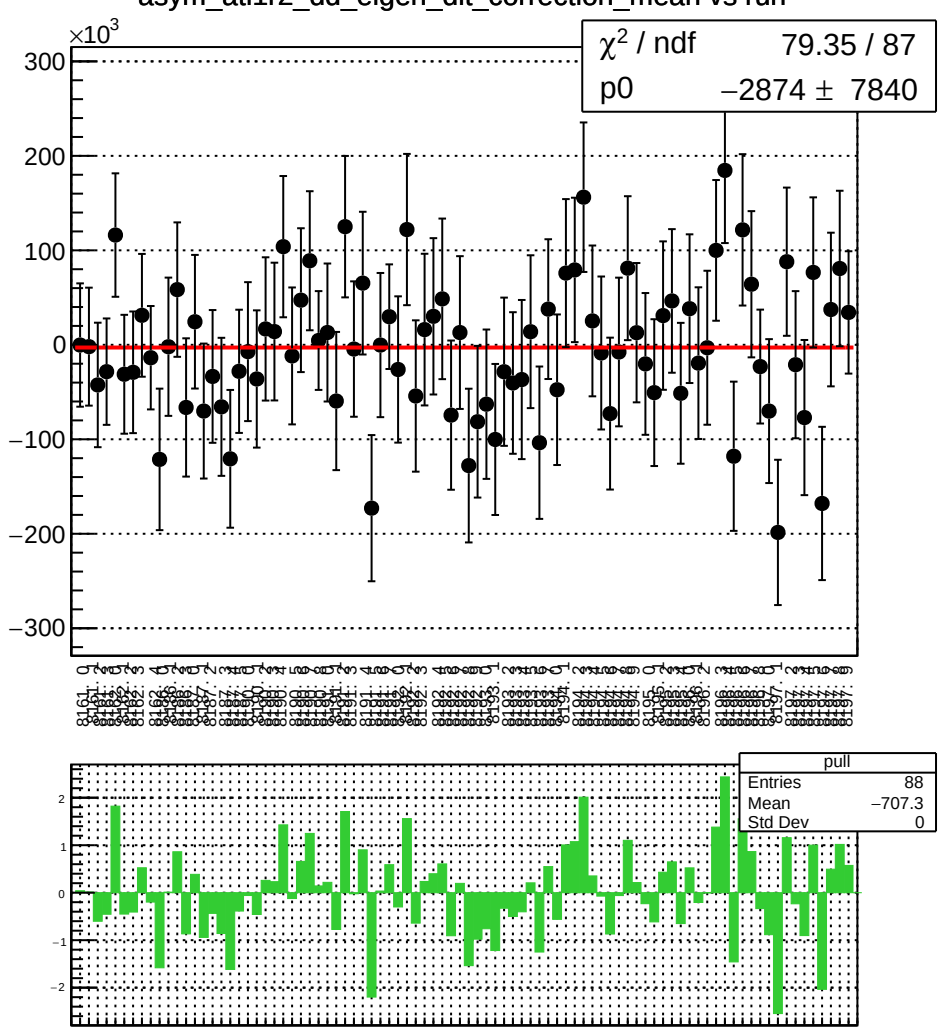

pull1D
Entries 88
Mean −0.002521
Std Dev 0.9495

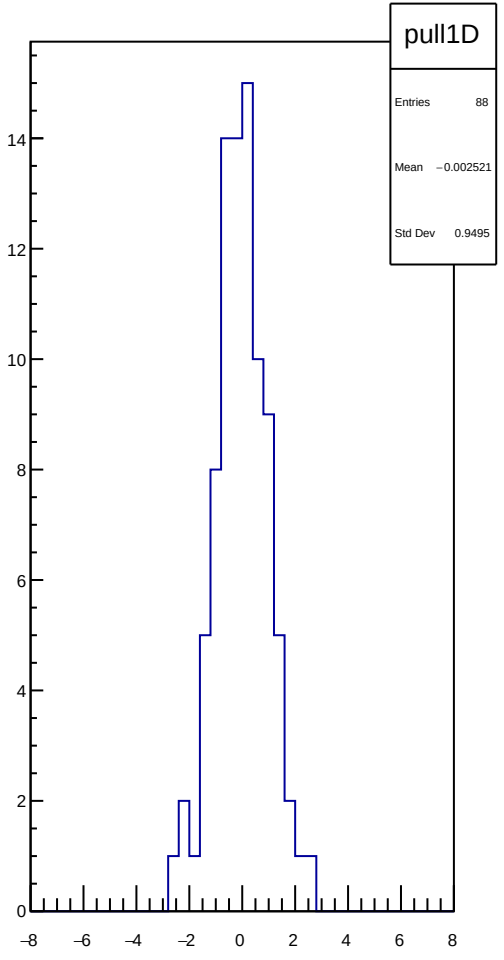

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 8765 / 87
p0 7138 ± 5.544
8000
7500
7000
6500
6000

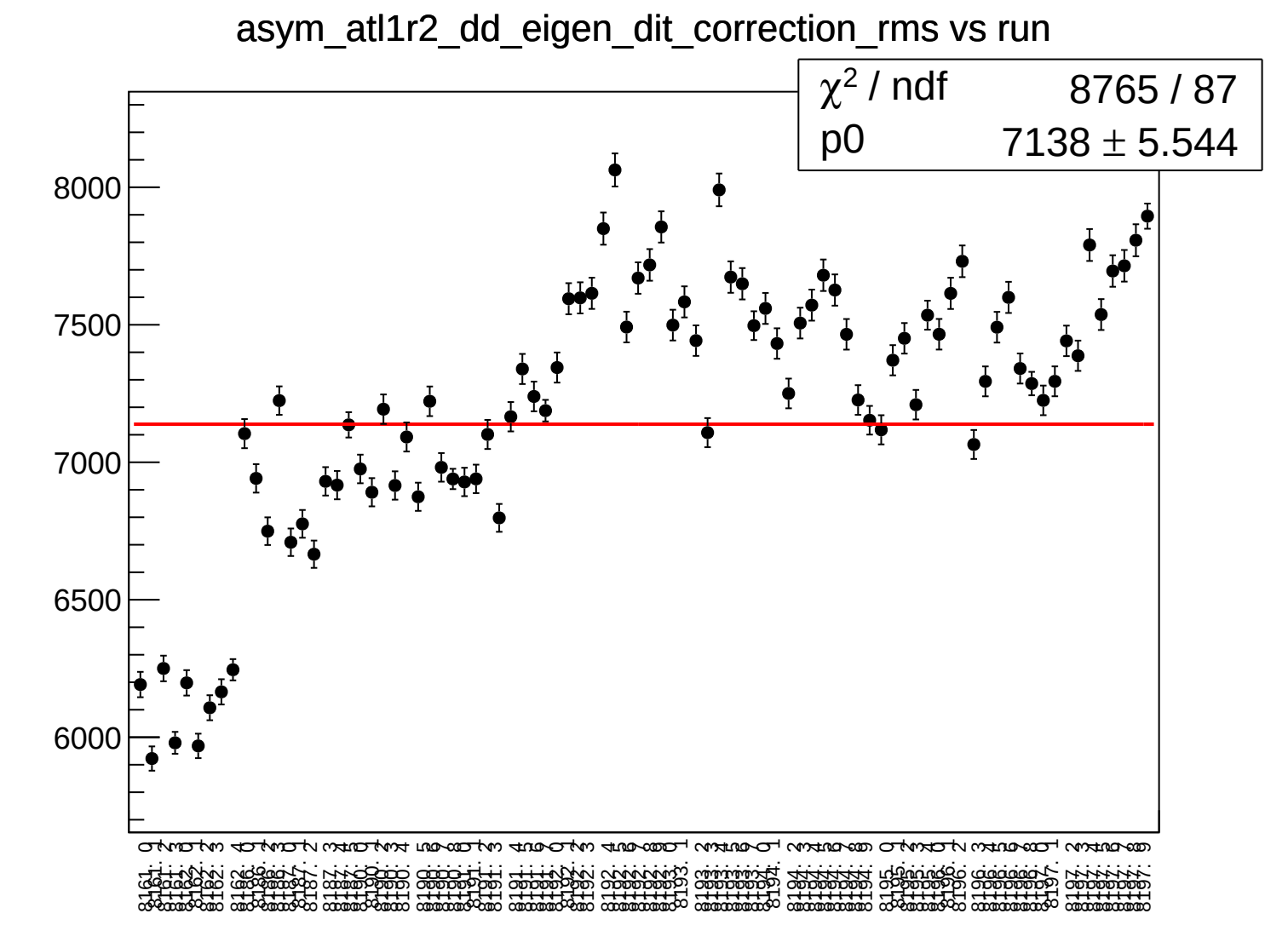

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 84.83 / 87
p0 3543 ± 2030
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −848.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

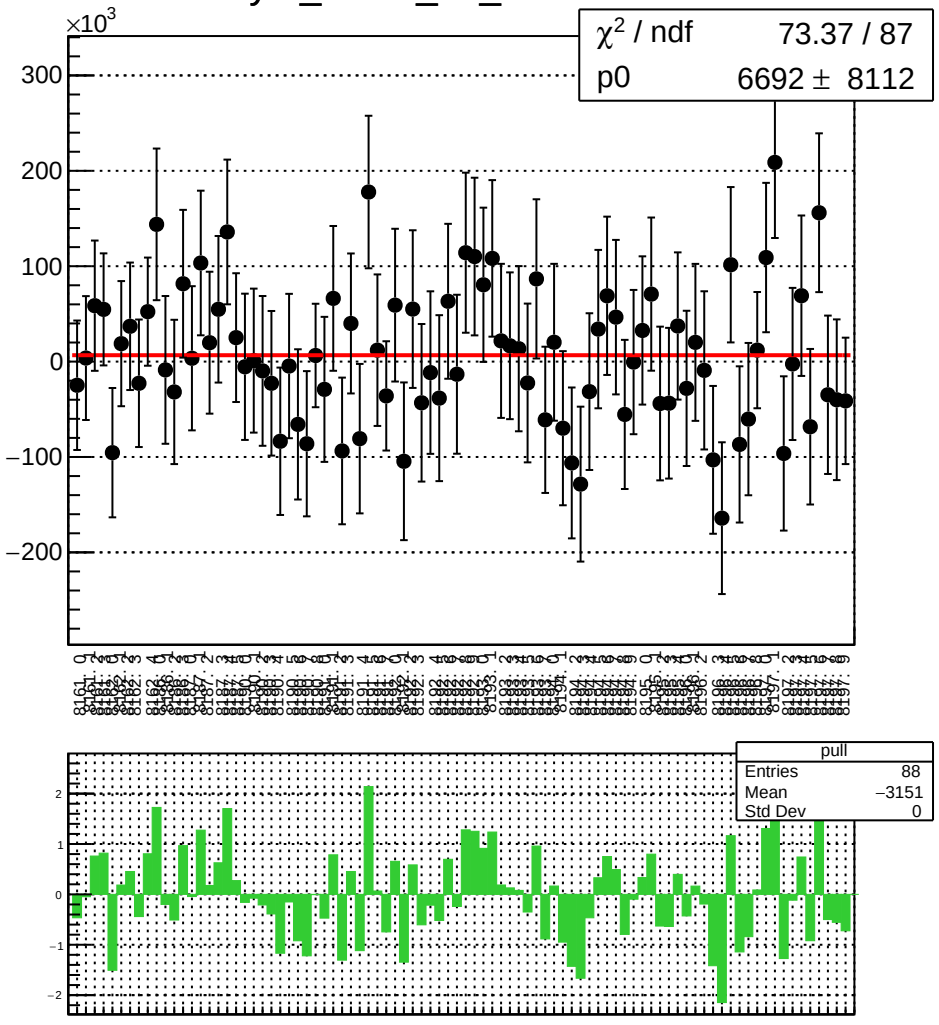

pull1D
Entries 88
Mean 0.002153
Std Dev 0.9818
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

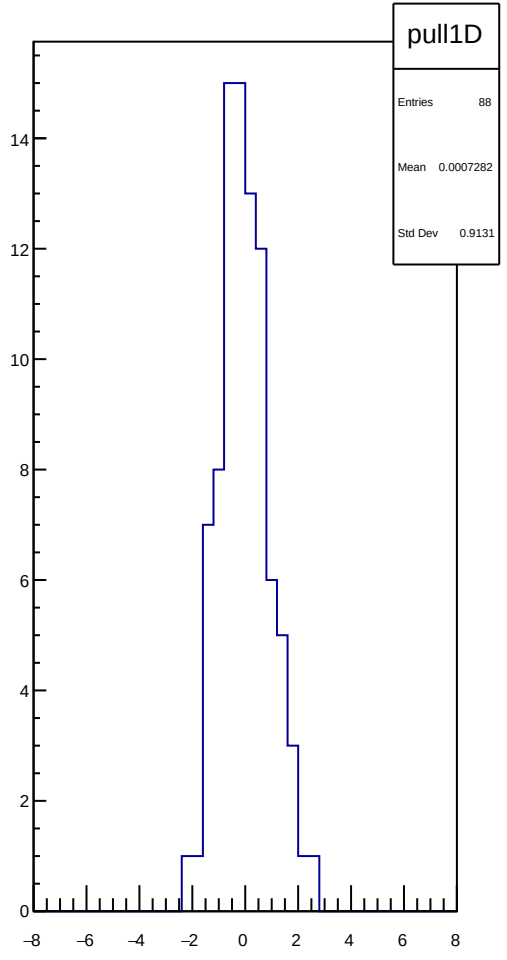

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 283.4 / 87
p0 1853 ± 1.435
1940
1920
1900
1880
1860
1840
1820
1800
1780

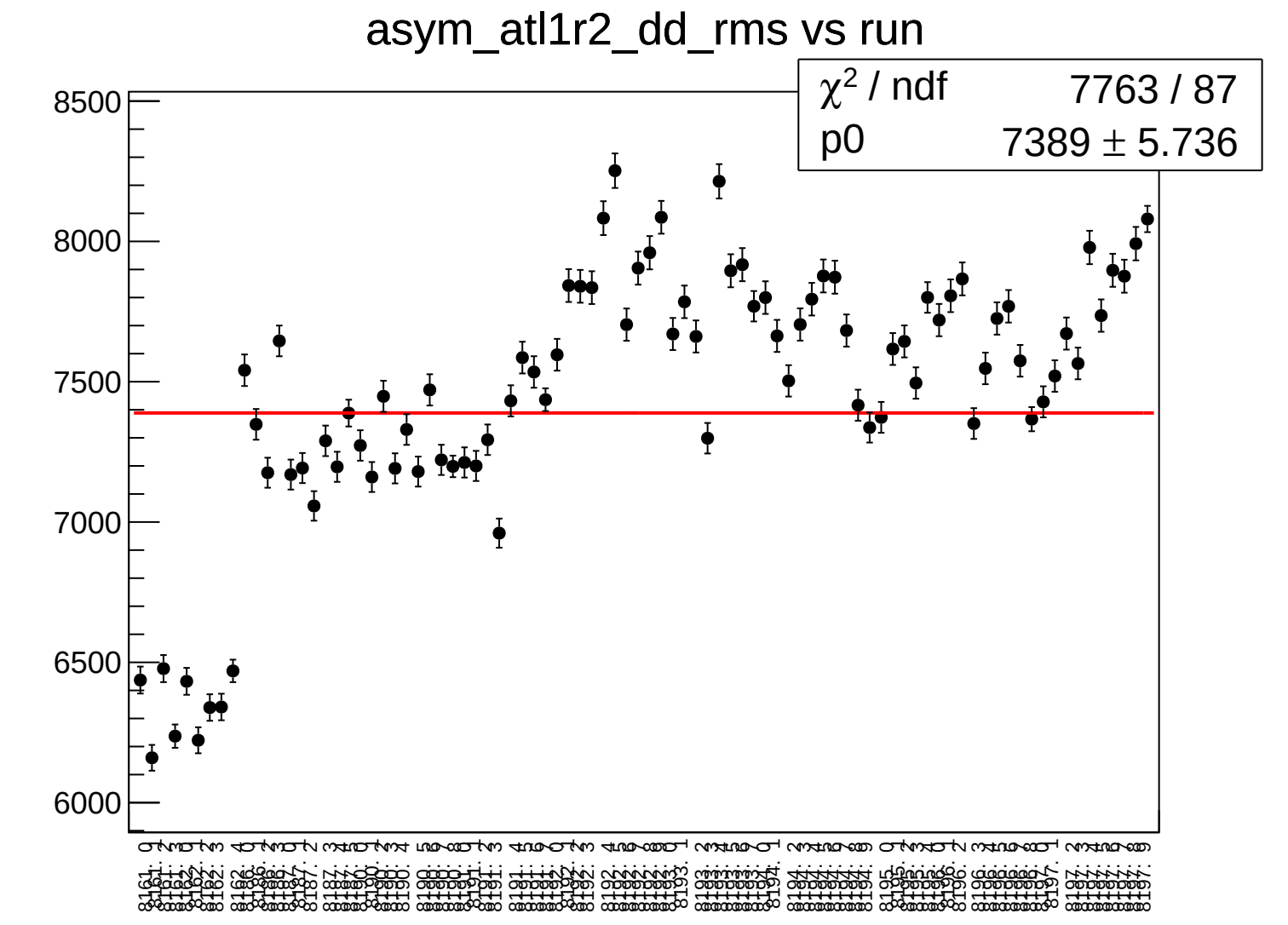

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.35 / 87
p0 −2874 ± 7840
pull
Entries 88
Mean −707.3
Std Dev 0

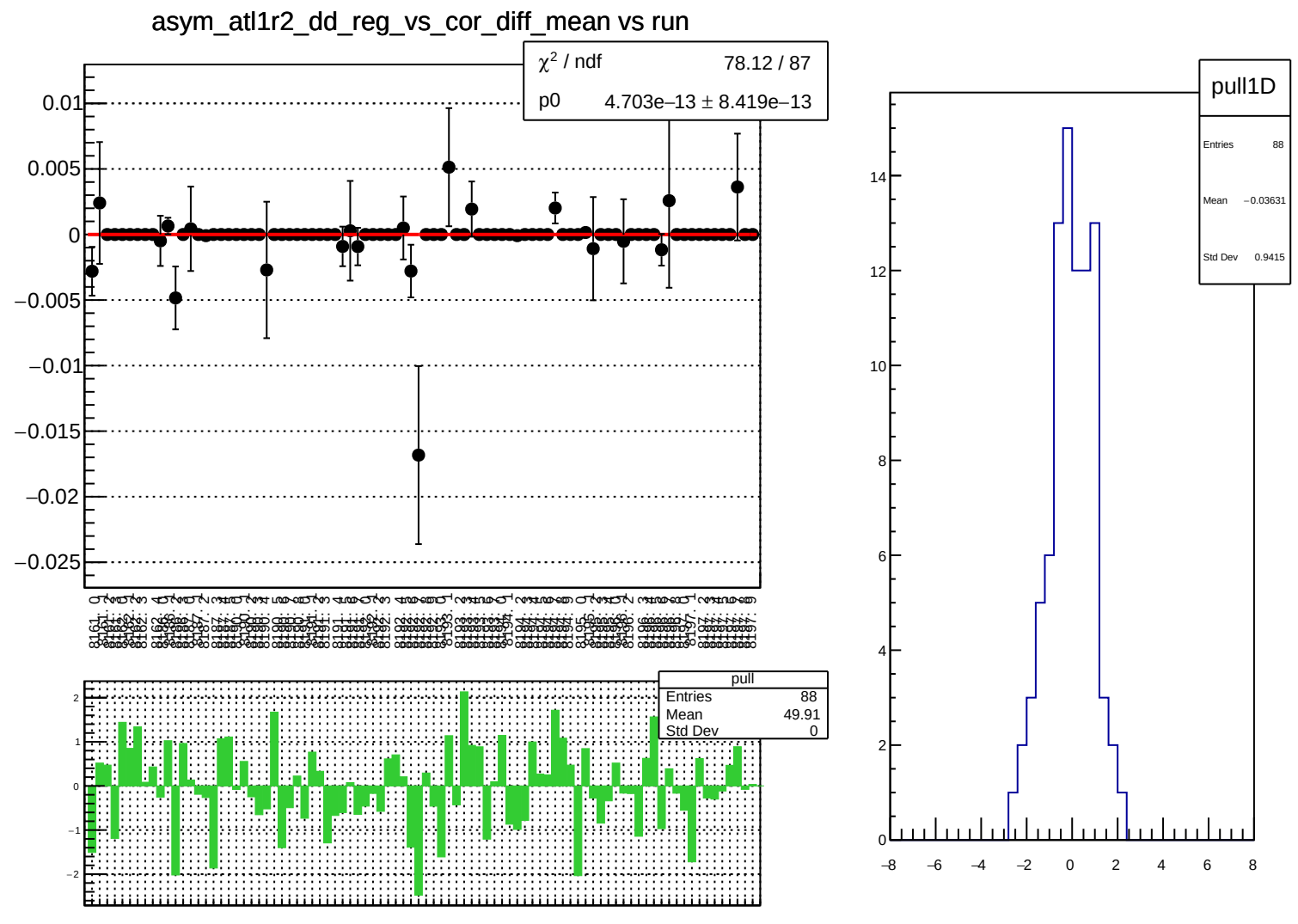

pull1D
Entries 88
Mean −0.002521
Std Dev 0.9495

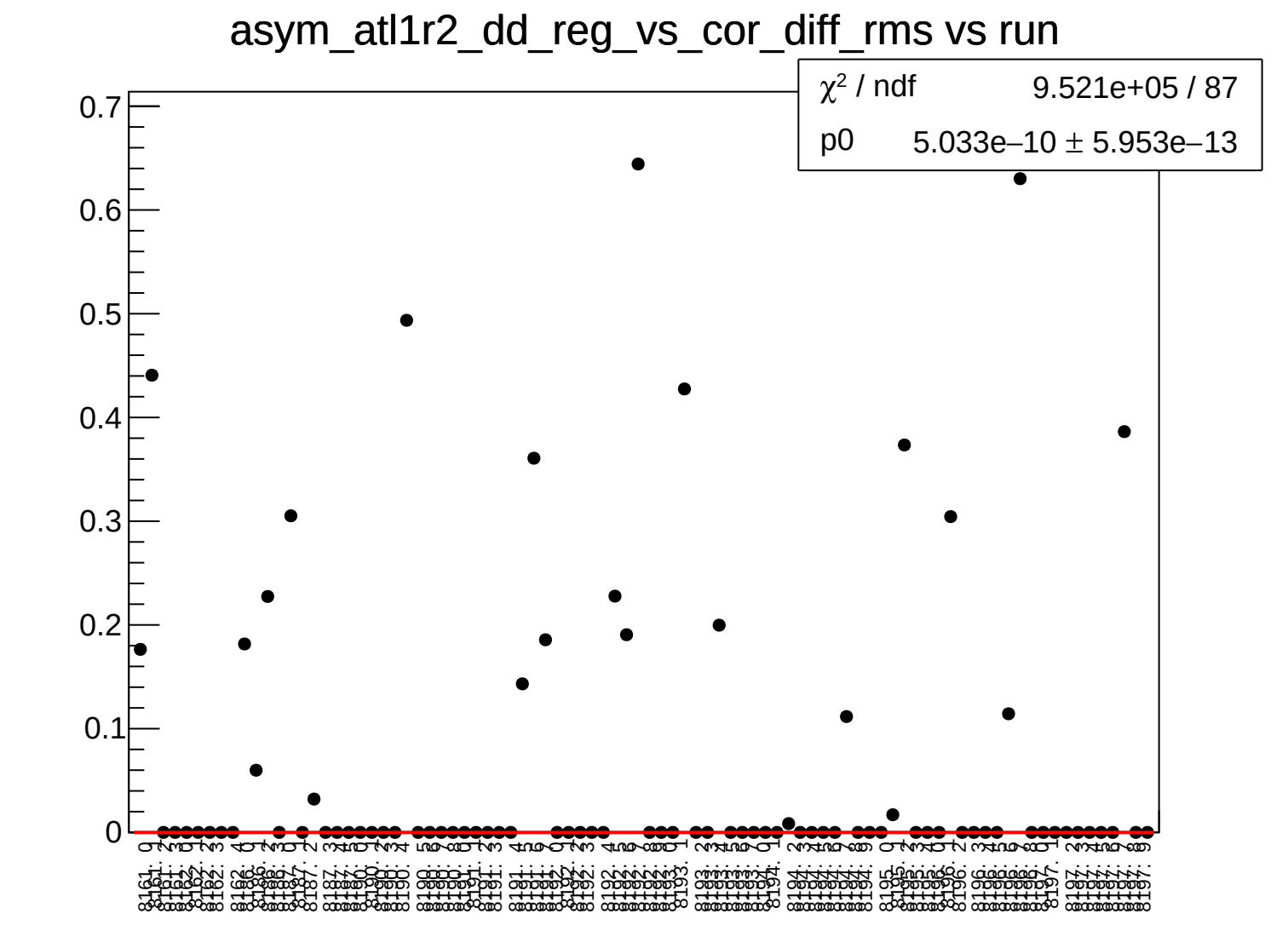

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8765 / 87
p0 7138 ± 5.544
8000
7500
7000
6500
6000

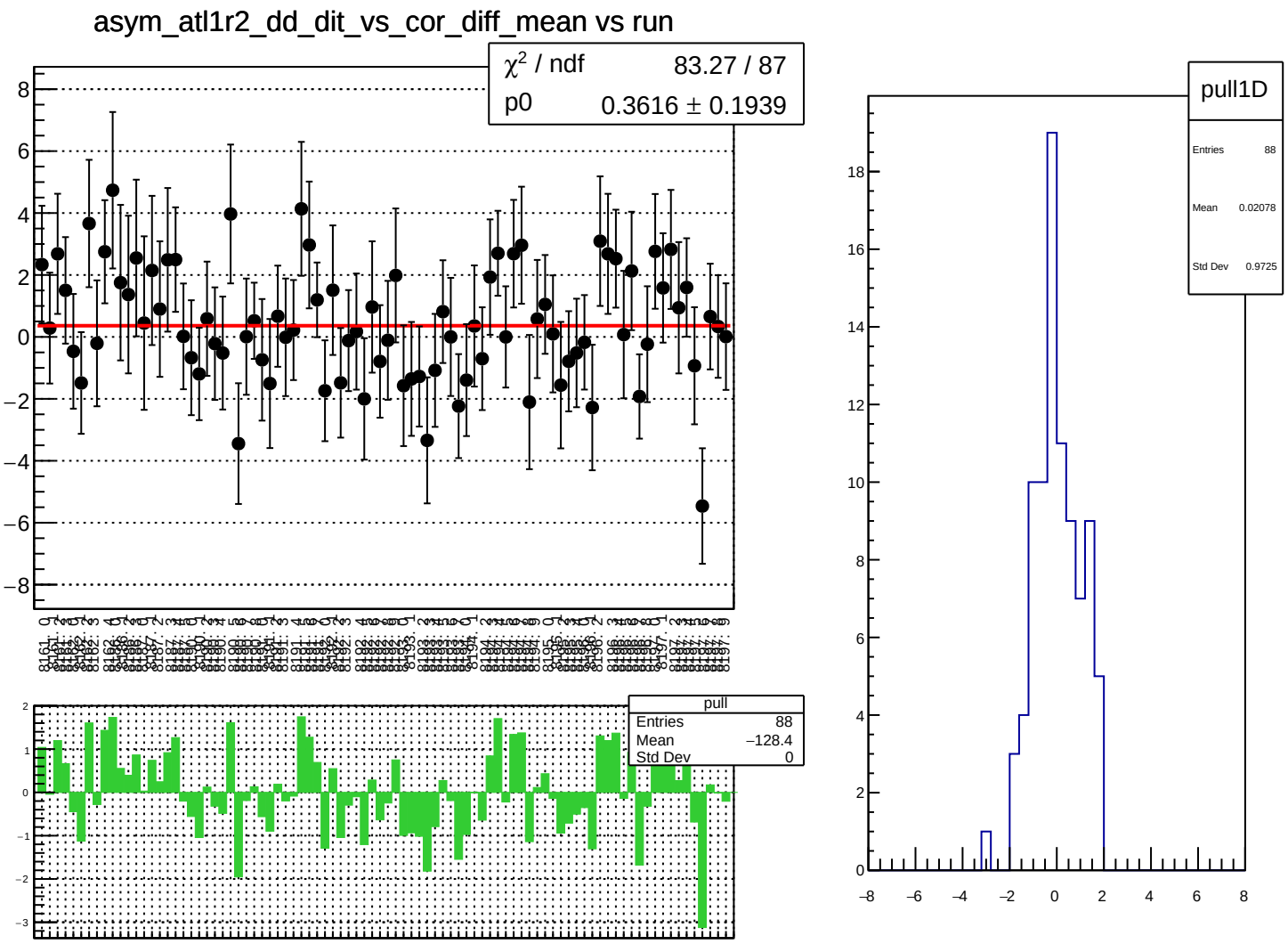

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 73.37 / 87
p0 6692 ± 8112
pull
Entries 88
Mean −3151
Std Dev 0

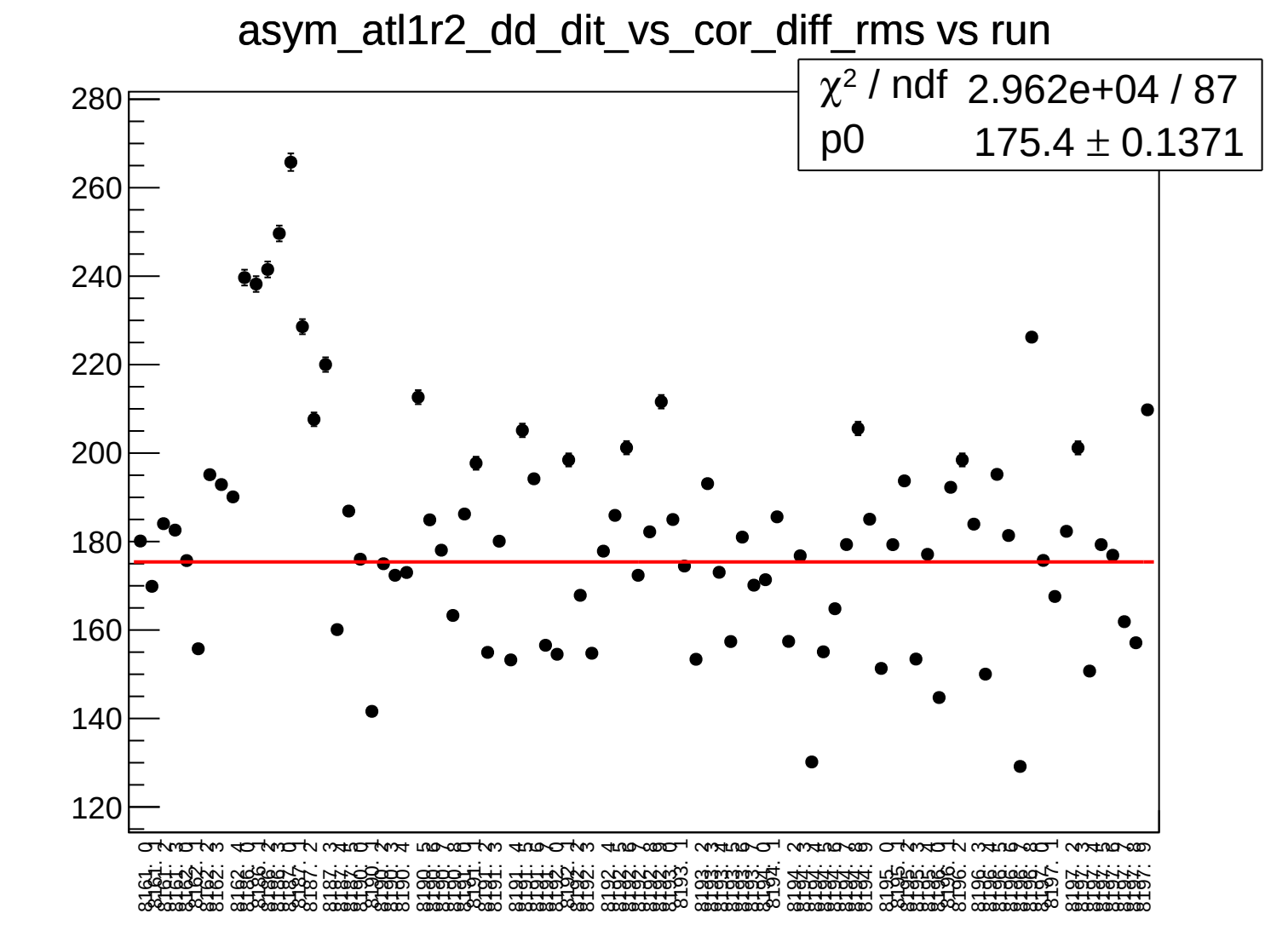

pull1D
Entries 88
Mean 0.0007282
Std Dev 0.9131

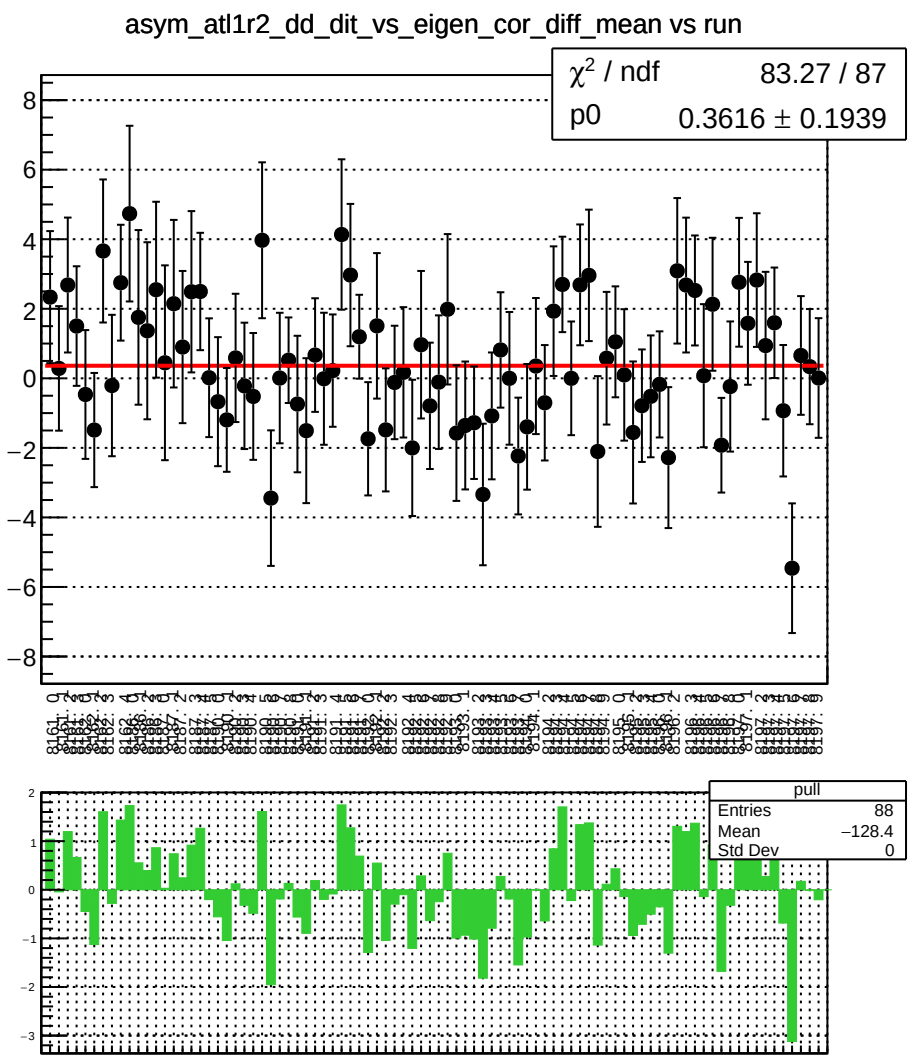

asym_atl1r2_dd_rms vs run
χ² / ndf 7763 / 87
p0 7389 ± 5.736
8500
8000
7500
7000
6500
6000

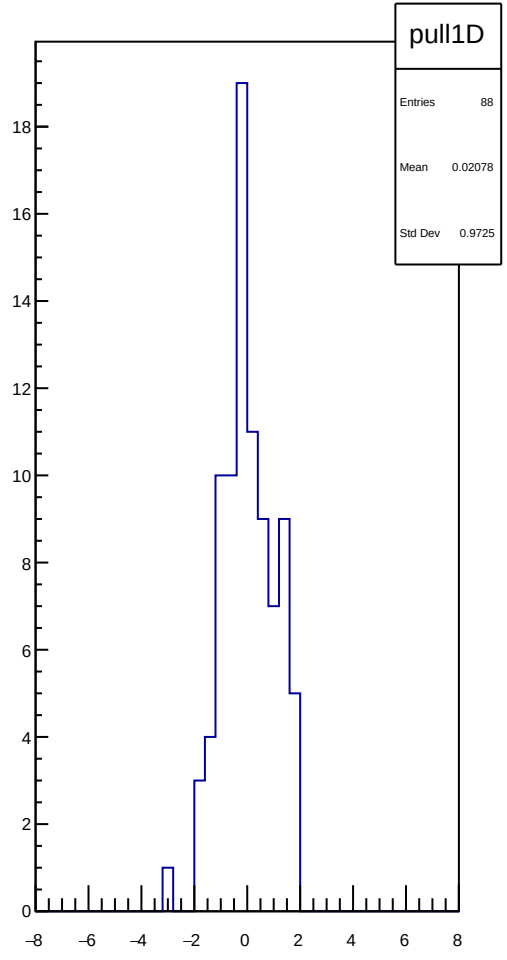

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.12 / 87
p0 4.703e−13 ± 8.419e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 88
Mean 49.91
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.03631
Std Dev 0.9415
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

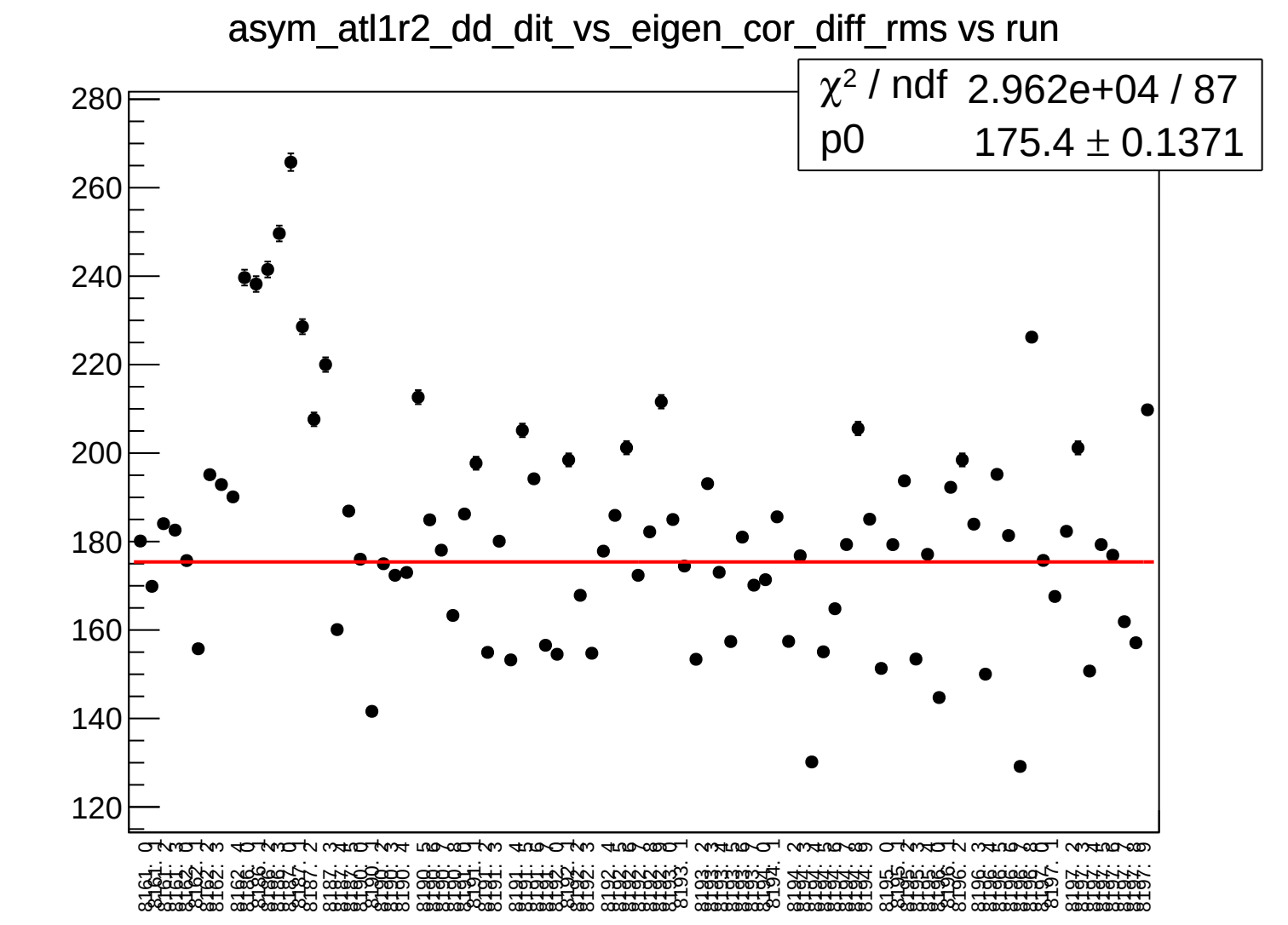

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.521e+05 / 87
p0 5.033e−10 ± 5.953e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

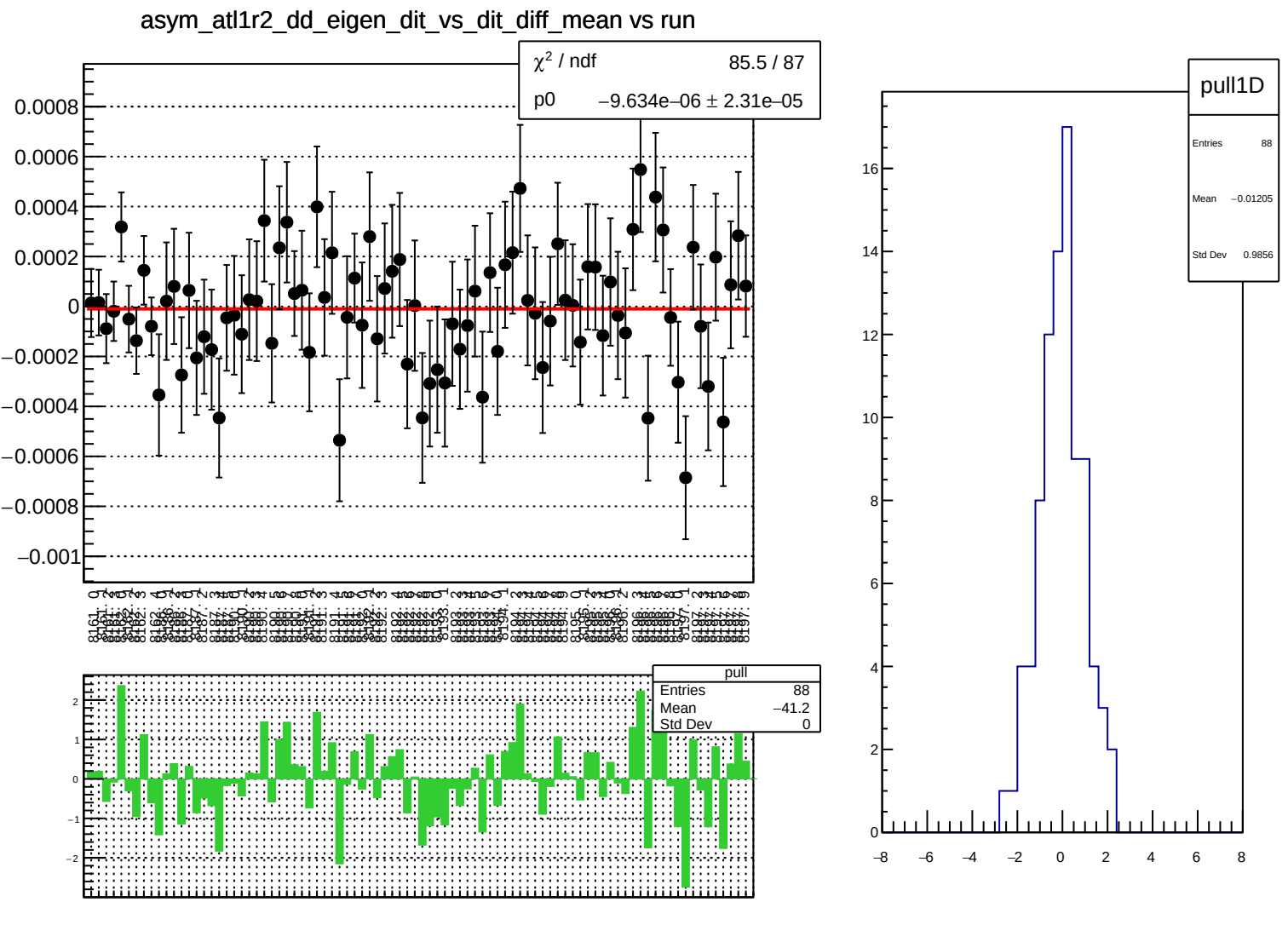

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.27 / 87
p0 0.3616 ± 0.1939
pull
Entries 88
Mean −128.4
Std Dev 0
pull1D
Entries 88
Mean 0.02078
Std Dev 0.9725

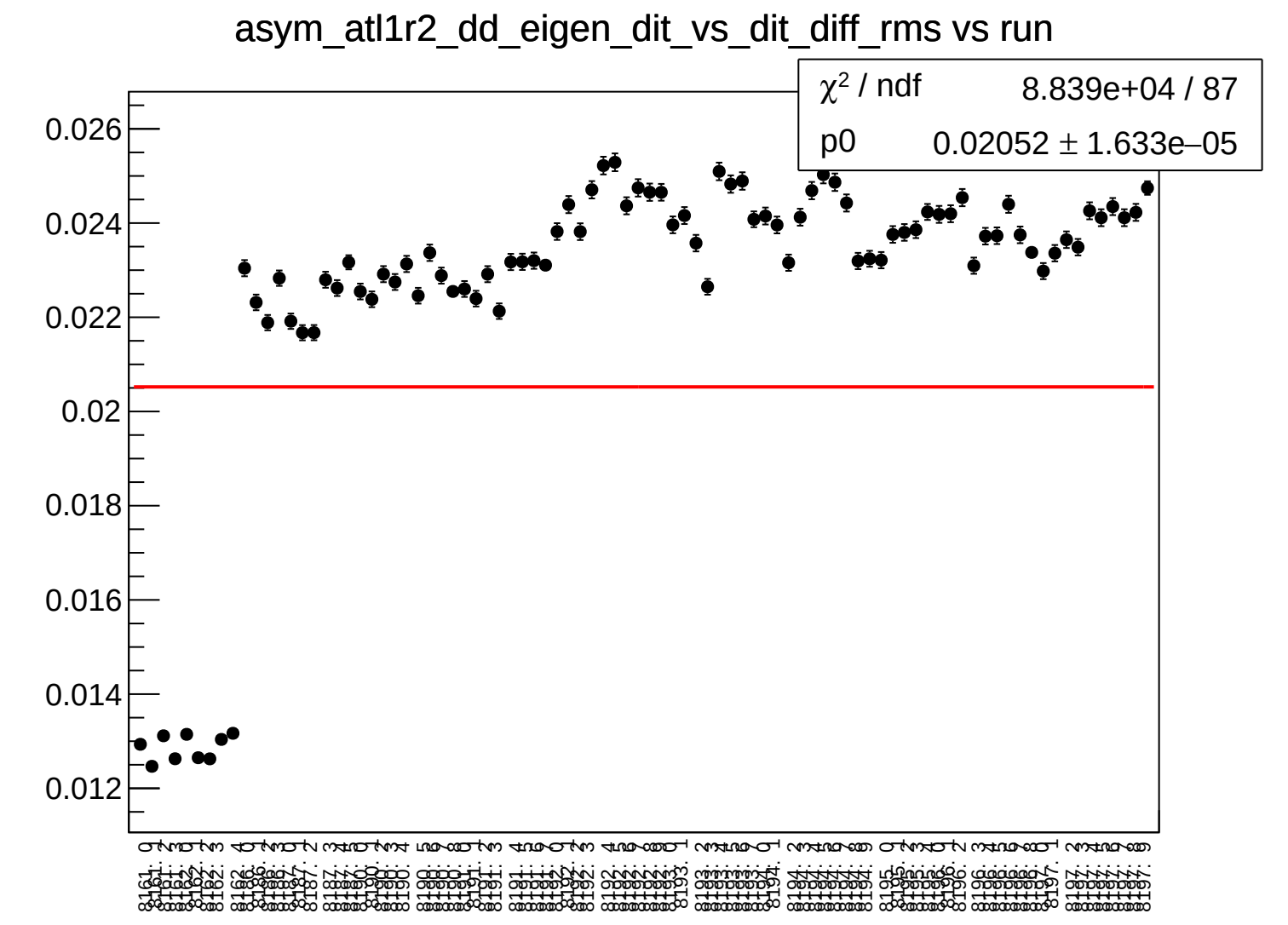

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.962e+04 / 87
p0 175.4 ± 0.1371
280
260
240
220
200
180
160
140
120

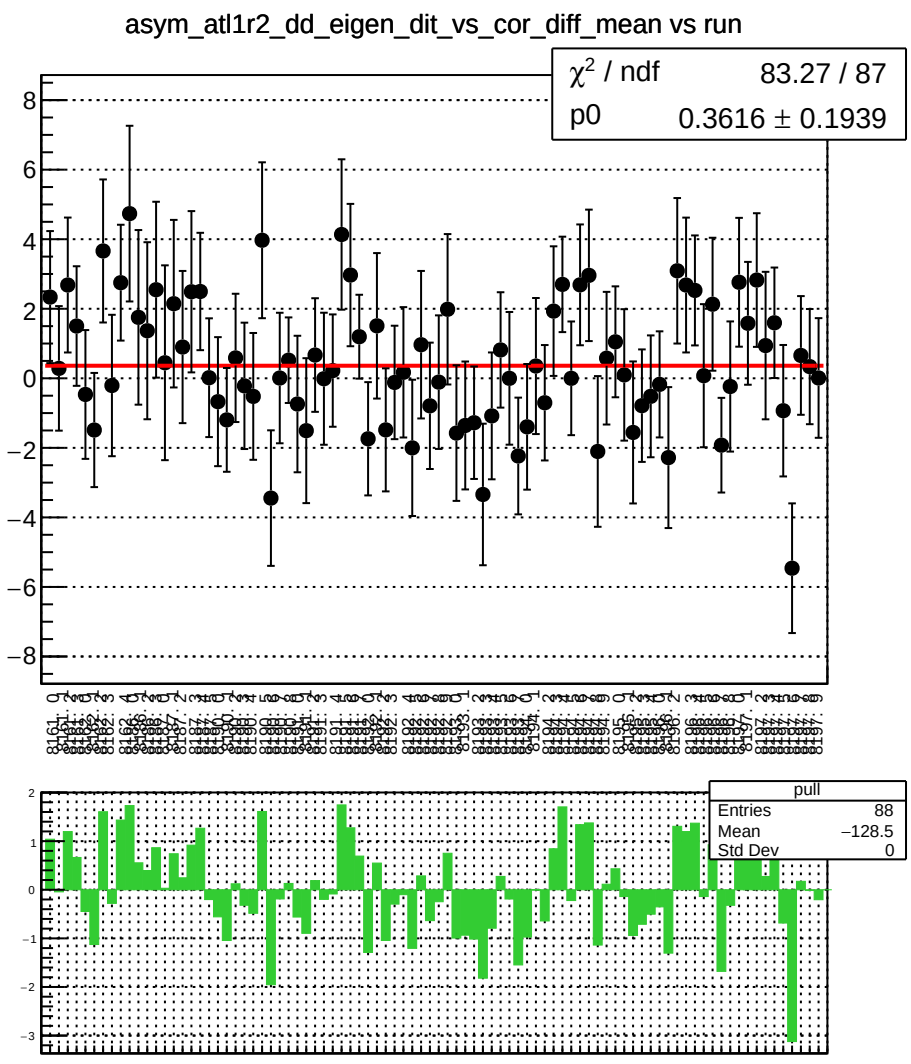

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.27 / 87
p0 0.3616 ± 0.1939
pull
Entries 88
Mean −128.4
Std Dev 0

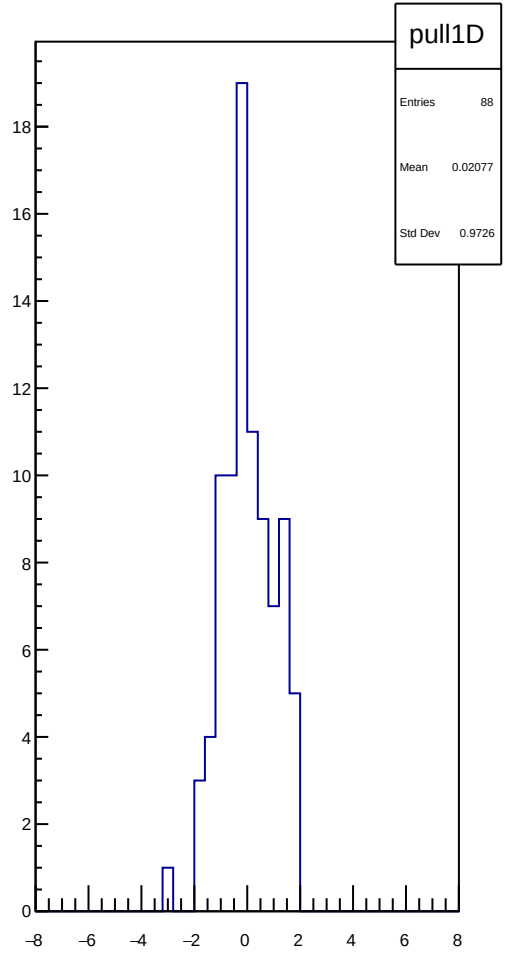

pull1D
Entries 88
Mean 0.02078
Std Dev 0.9725

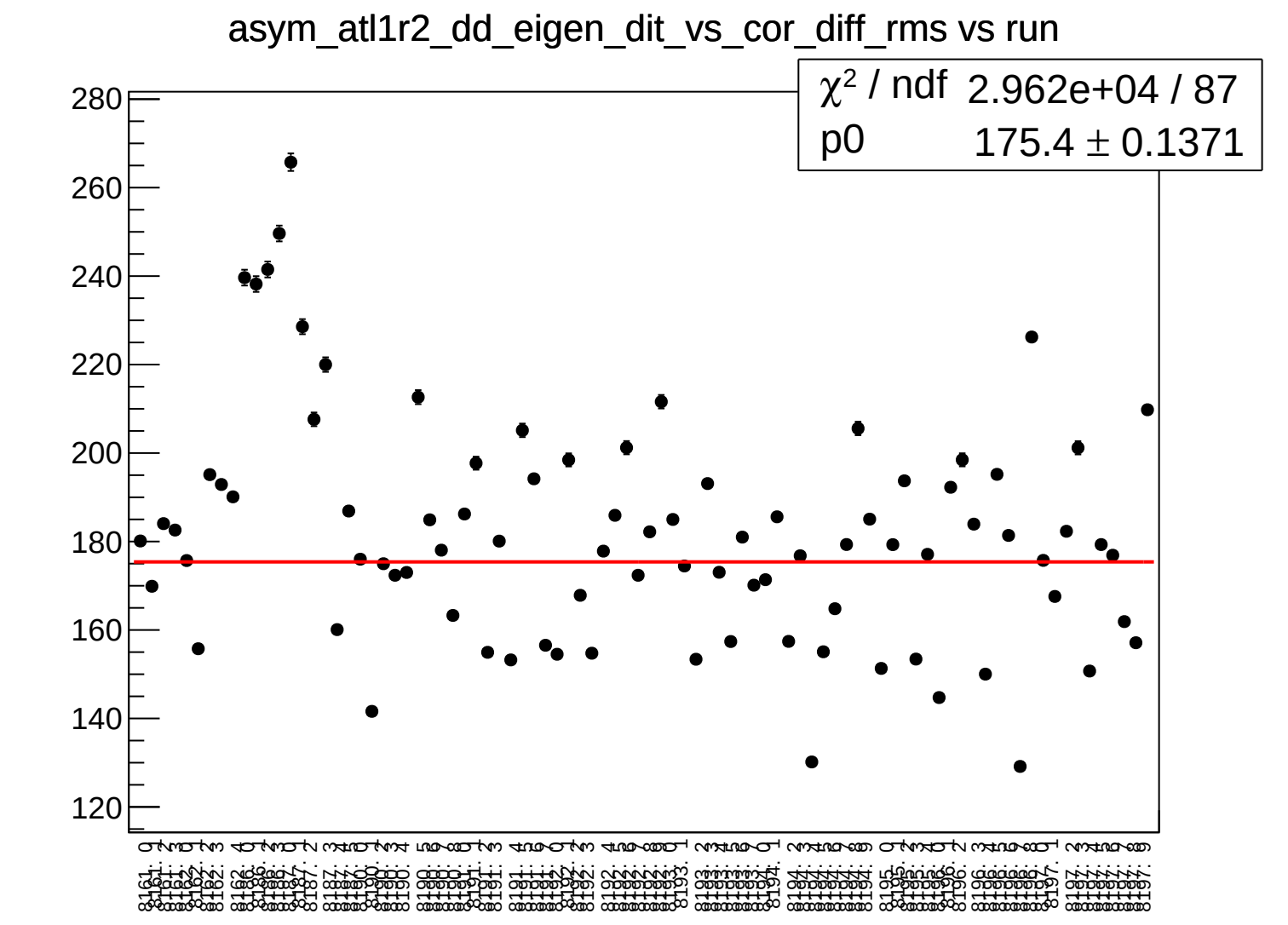

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.962e+04 / 87
p0 175.4 ± 0.1371
280
260
240
220
200
180
160
140
120

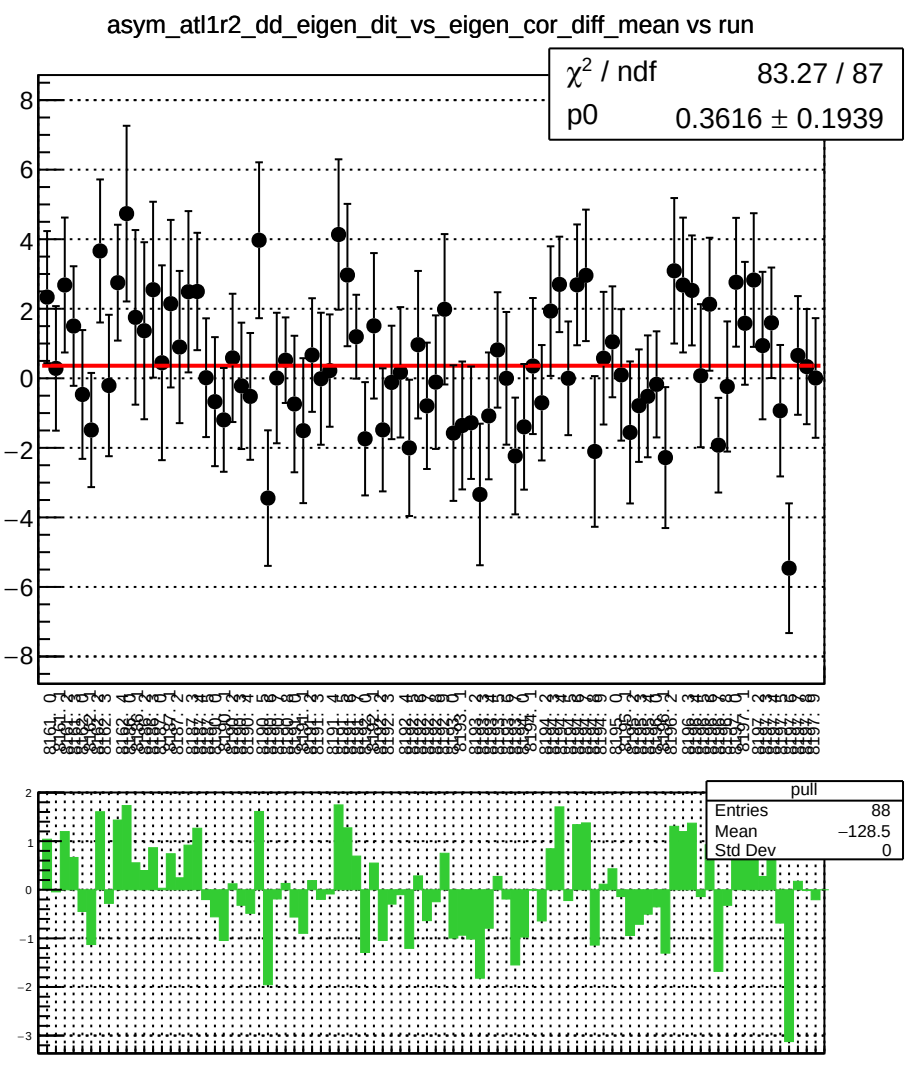

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.5 / 87
p0 −9.634e−06 ± 2.31e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean −41.2
Std Dev 0
pull1D
Entries 88
Mean −0.01205
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

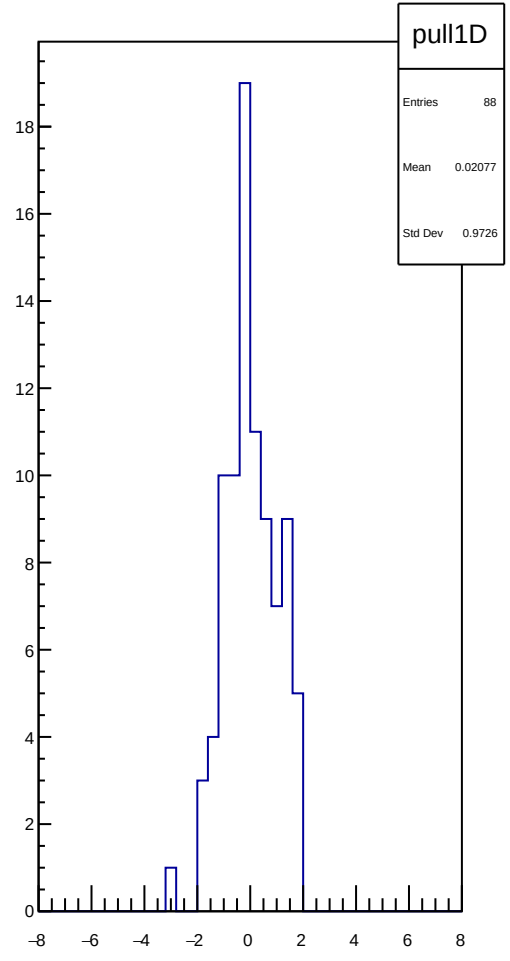

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.839e+04 / 87
p0 0.02052 ± 1.633e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

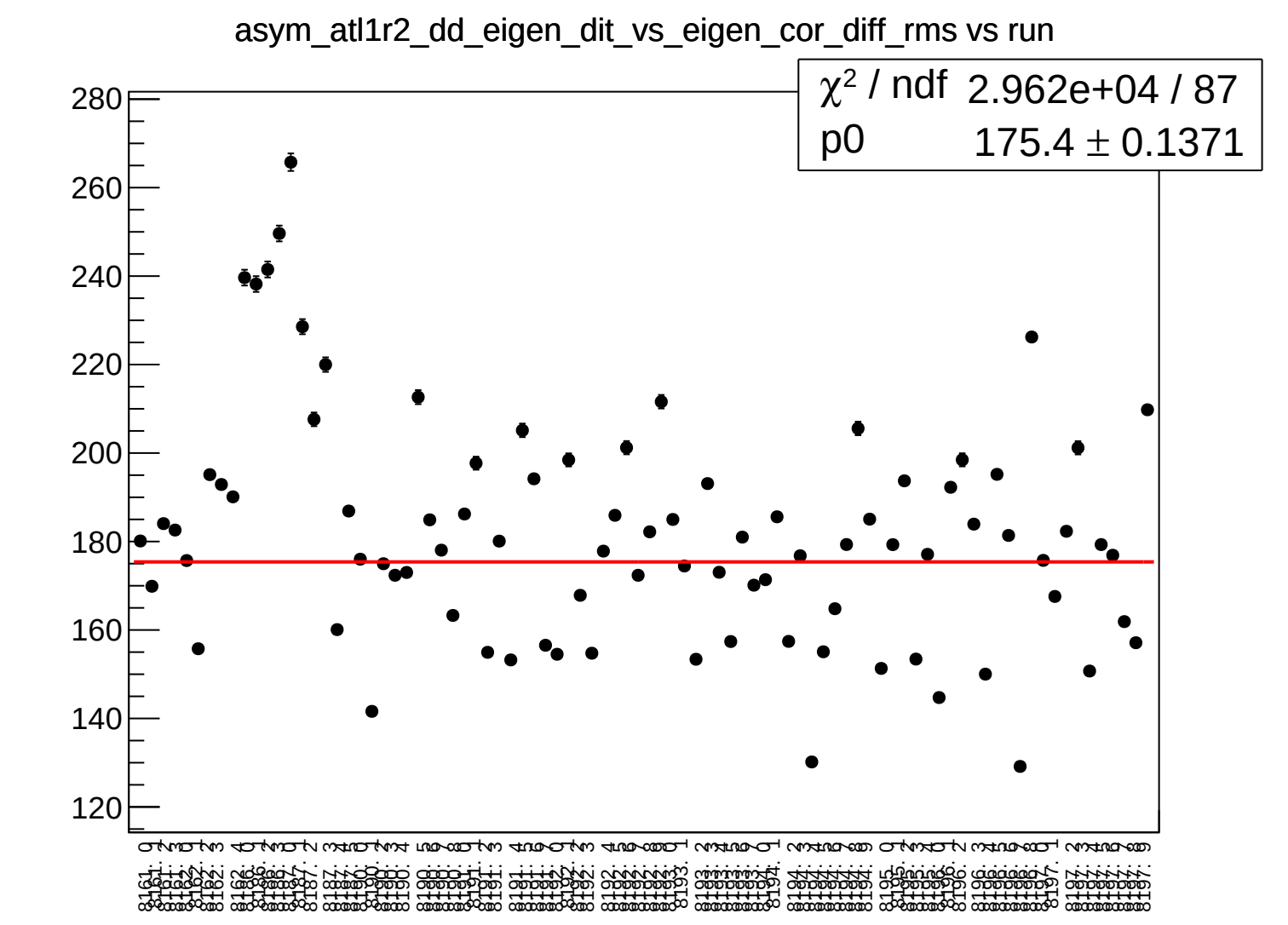

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.27 / 87
p0 0.3616 ± 0.1939
pull
Entries 88
Mean −128.5
Std Dev 0

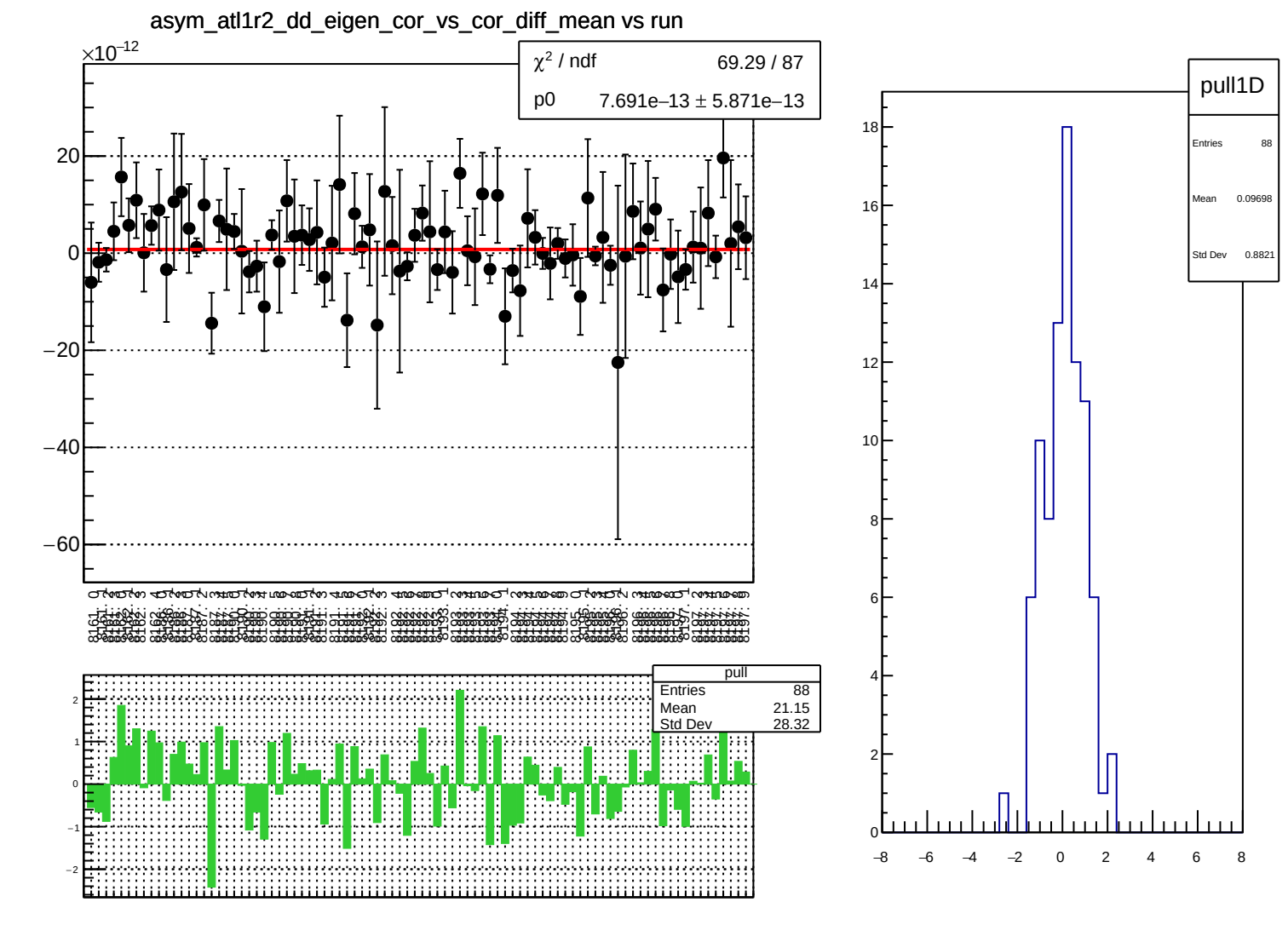

pull1D
Entries 88
Mean 0.02077
Std Dev 0.9726

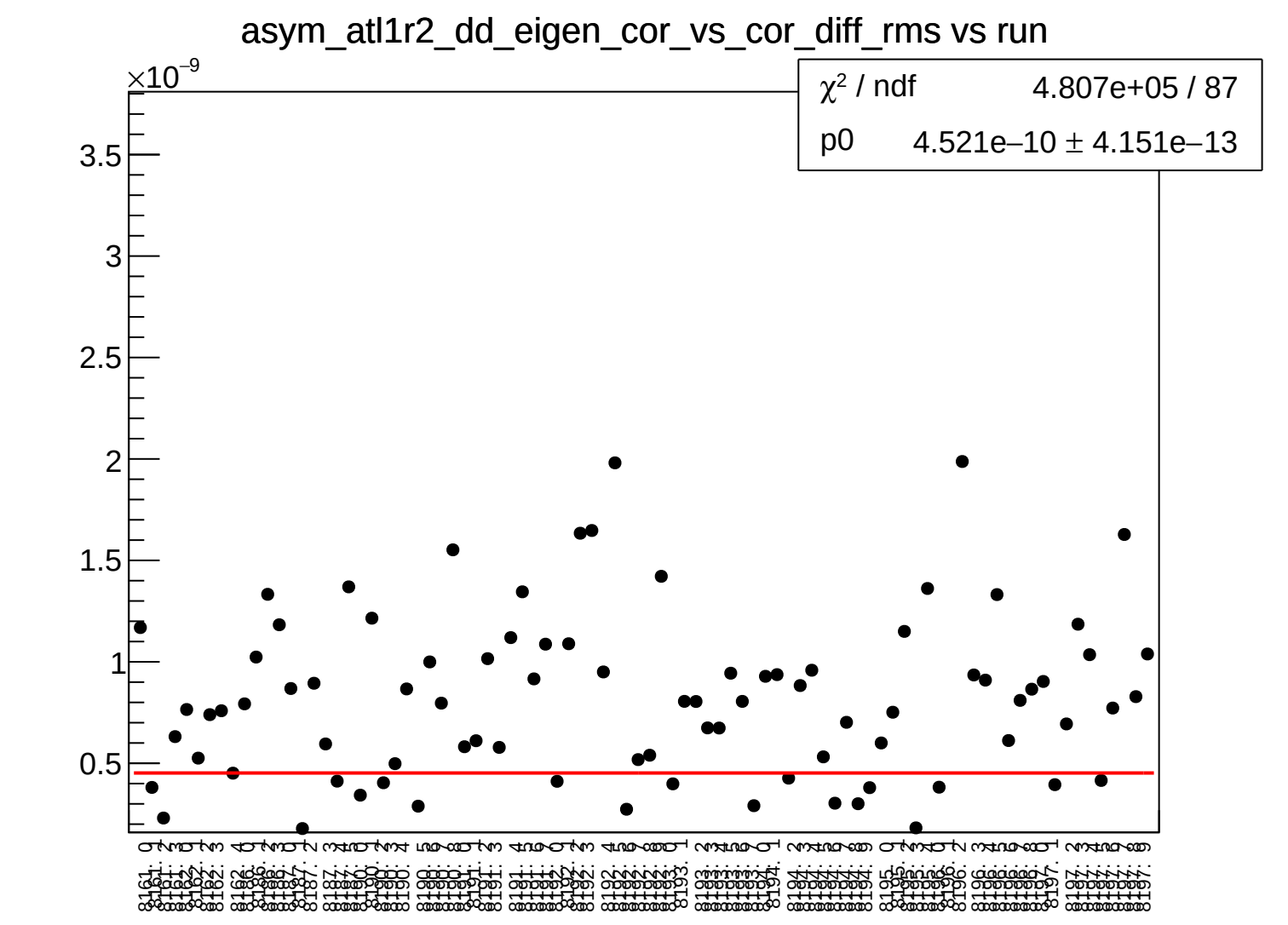

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.962e+04 / 87
p0 175.4 ± 0.1371
280
260
240
220
200
180
160
140
120

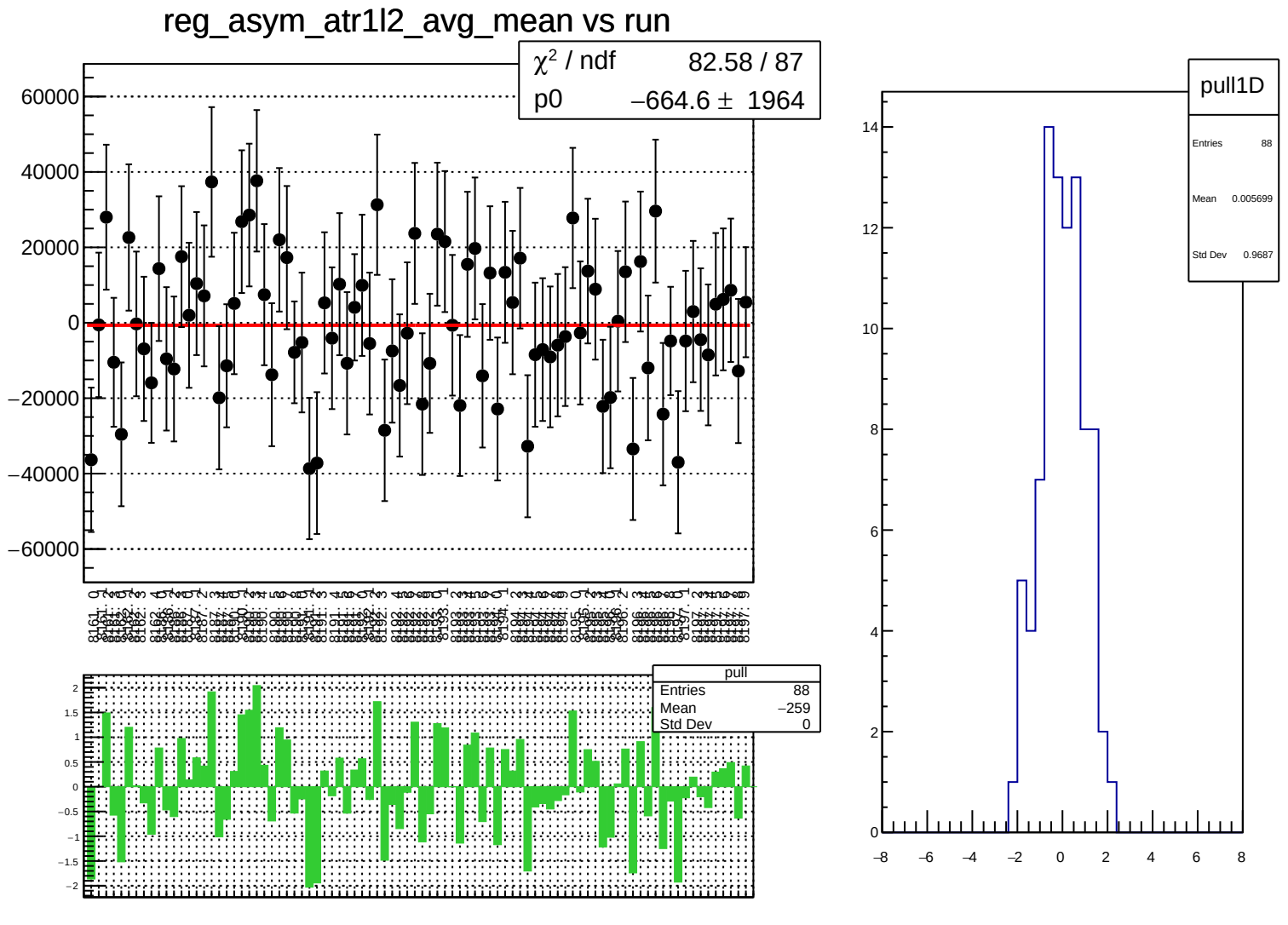

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.27 / 87
p0 0.3616 ± 0.1939
pull
Entries 88
Mean −128.5
Std Dev 0

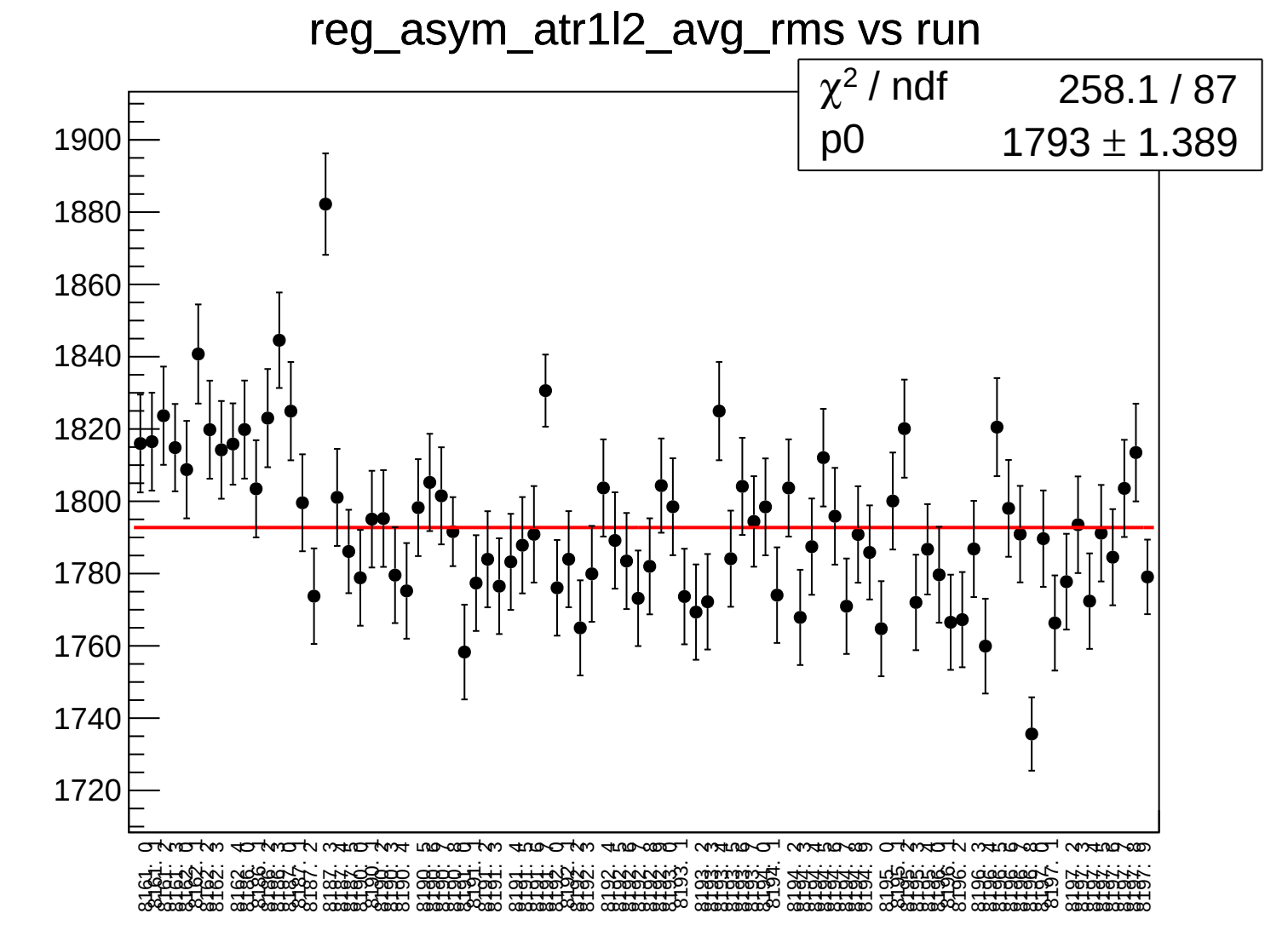

pull1D
Entries 88
Mean 0.02077
Std Dev 0.9726

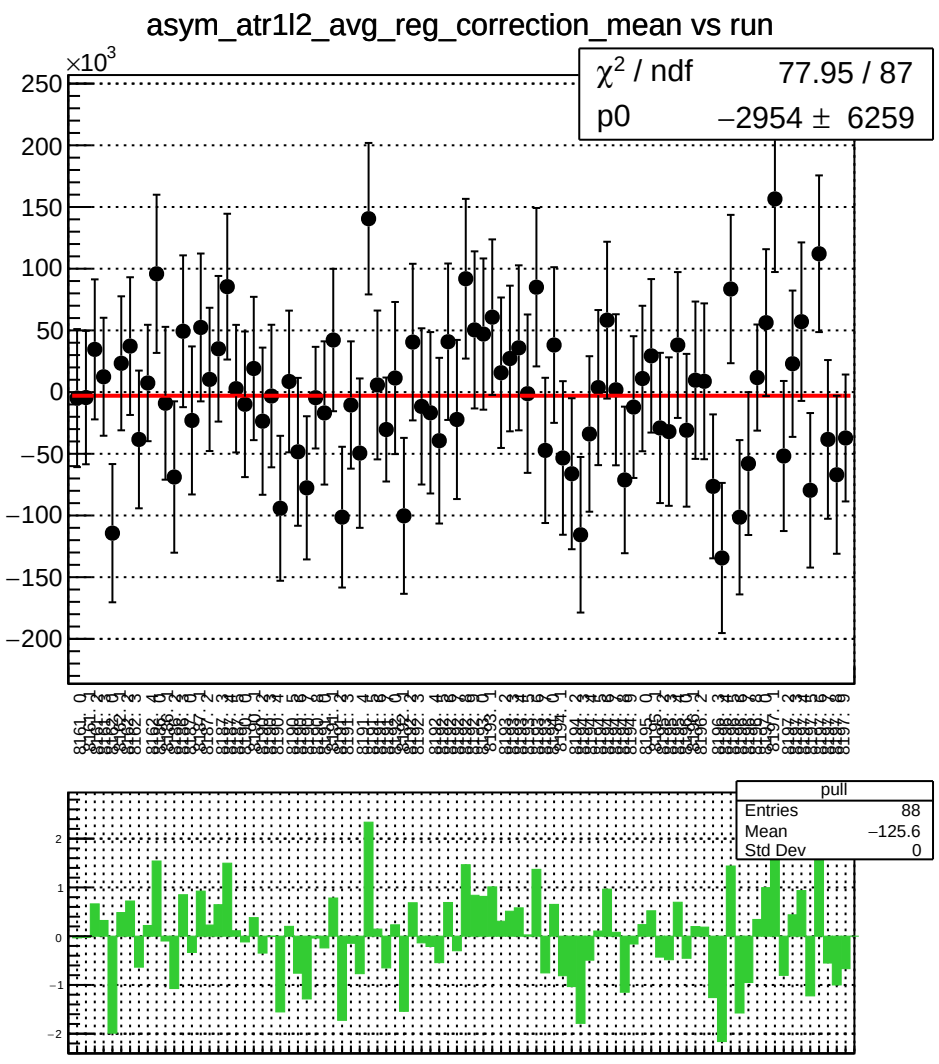

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.962e+04 / 87
p0 175.4 ± 0.1371
280
260
240
220
200
180
160
140
120

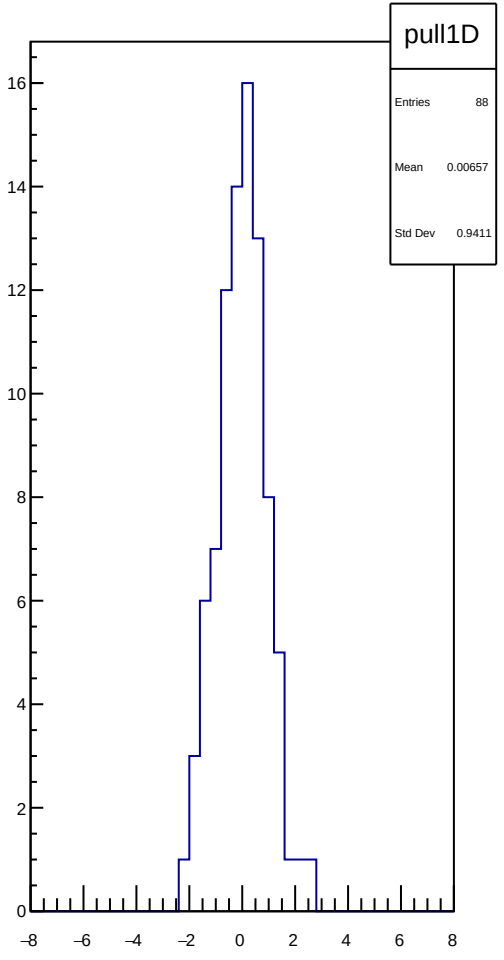

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.29 / 87
p0 7.691e−13 ± 5.871e−13
20
0
−20
−40
−60
pull
Entries 88
Mean 21.15
Std Dev 28.32
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.09698
Std Dev 0.8821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

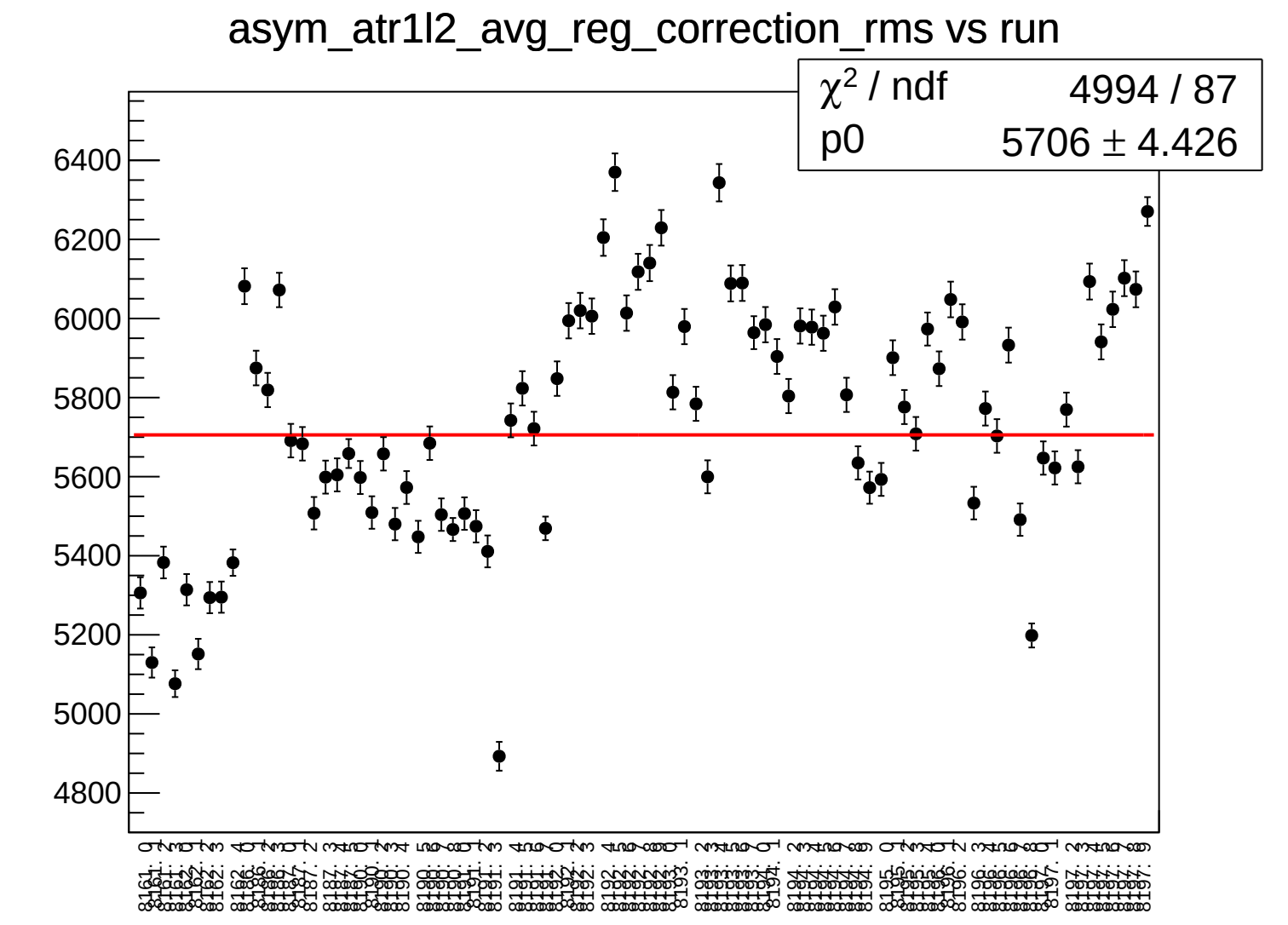

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.807e+05 / 87
p0 4.521e−10 ± 4.151e−13
3.5
3
2.5
2
1.5
1
0.5

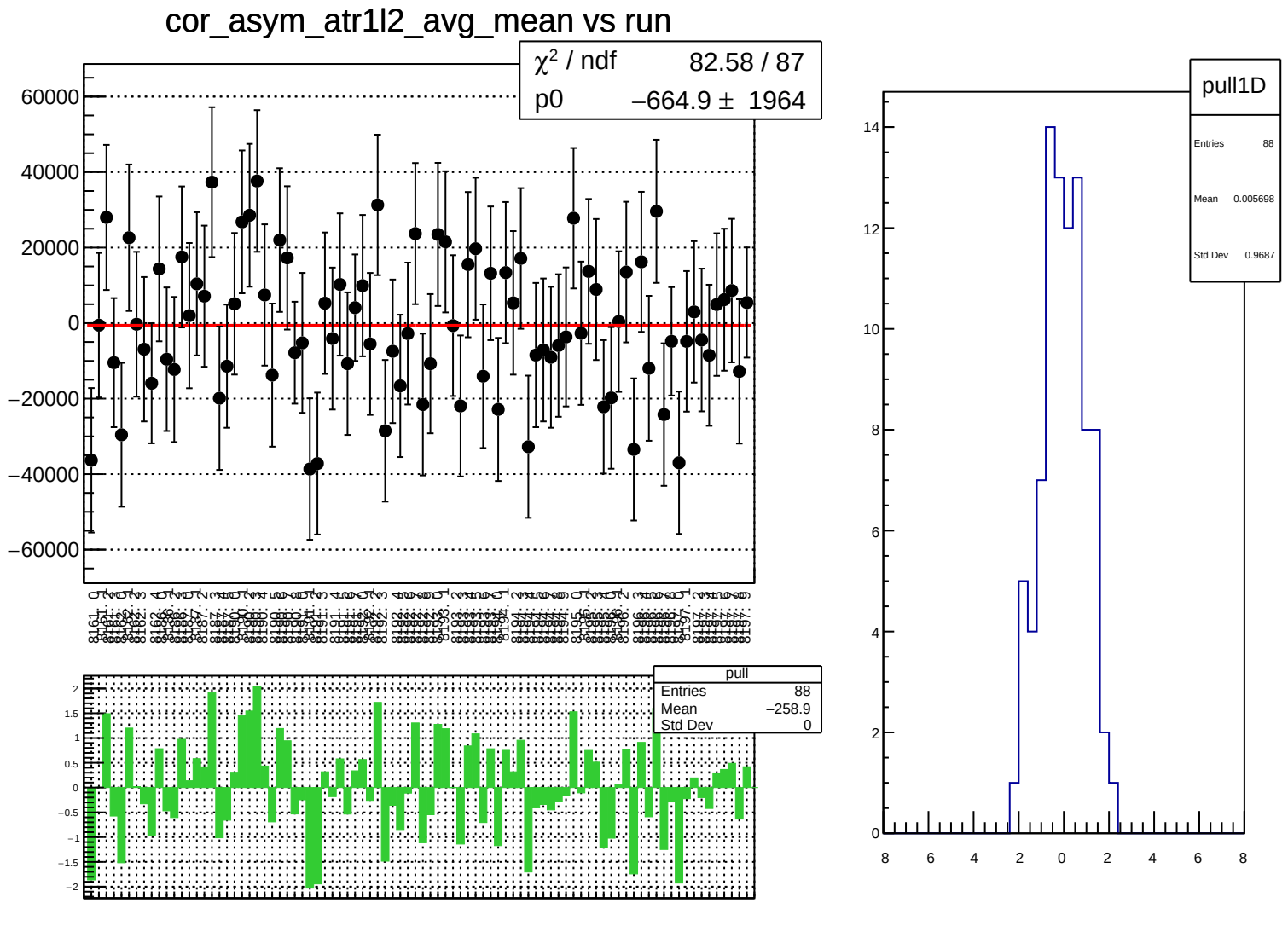

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 82.58 / 87
p0 −664.6 ± 1964
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −259
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.005699
Std Dev 0.9687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

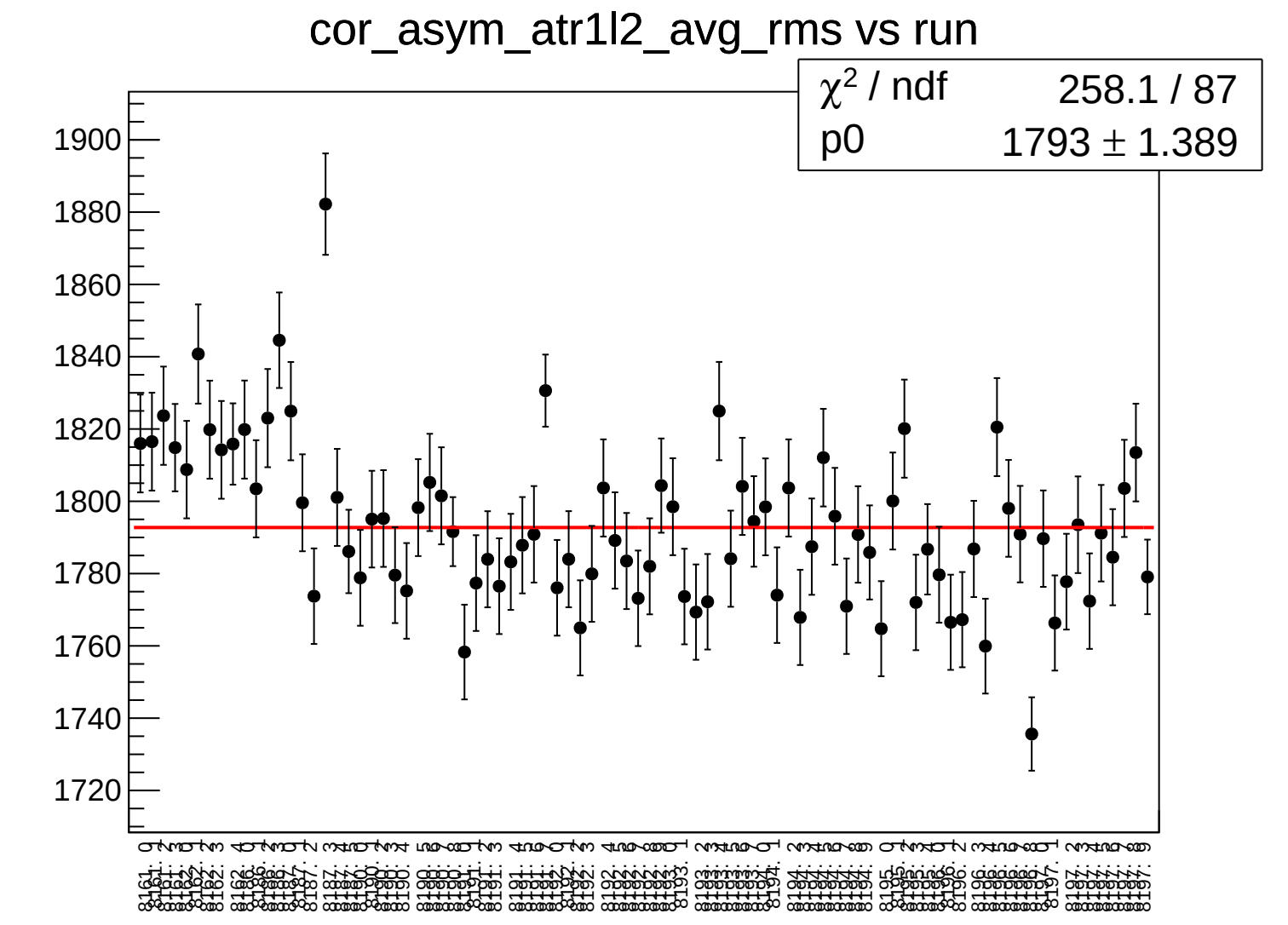

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 258.1 / 87
p0 1793 ± 1.389
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

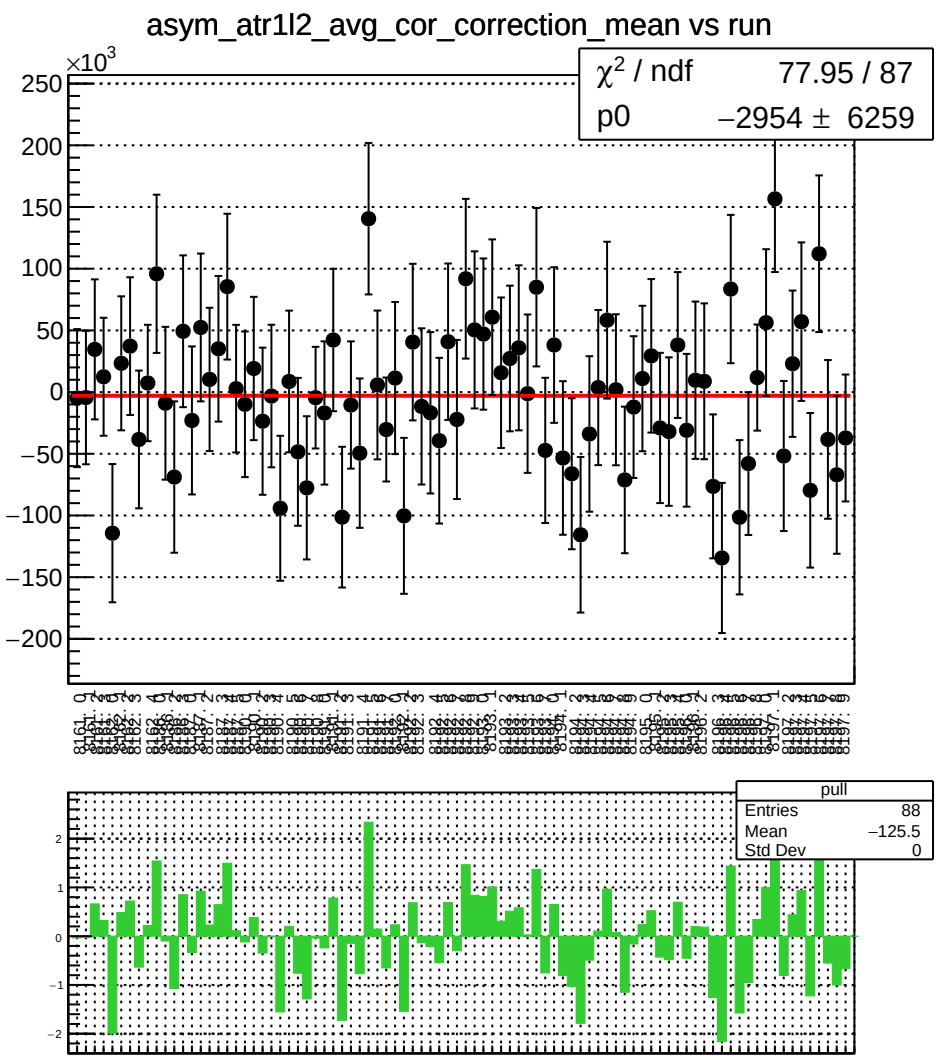

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 77.95 / 87
p0 −2954 ± 6259
pull
Entries 88
Mean −125.6
Std Dev 0

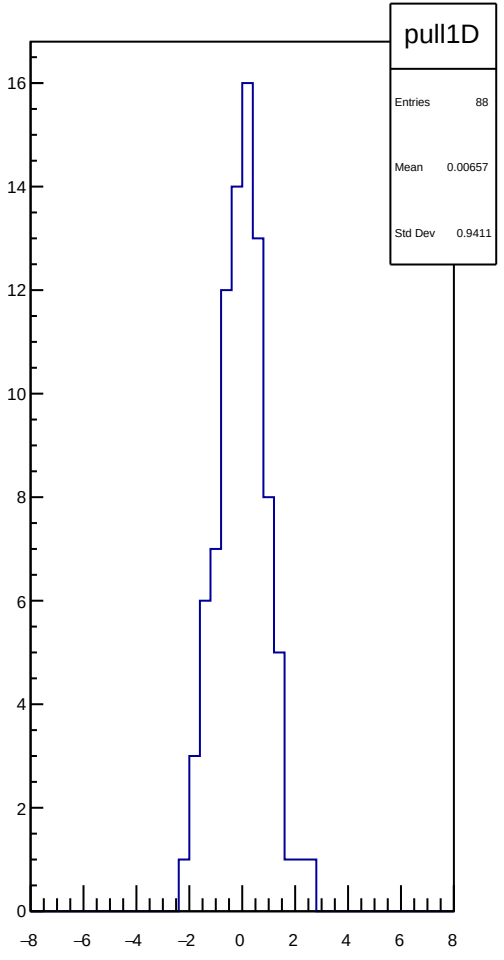

pull1D
Entries 88
Mean 0.00657
Std Dev 0.9411

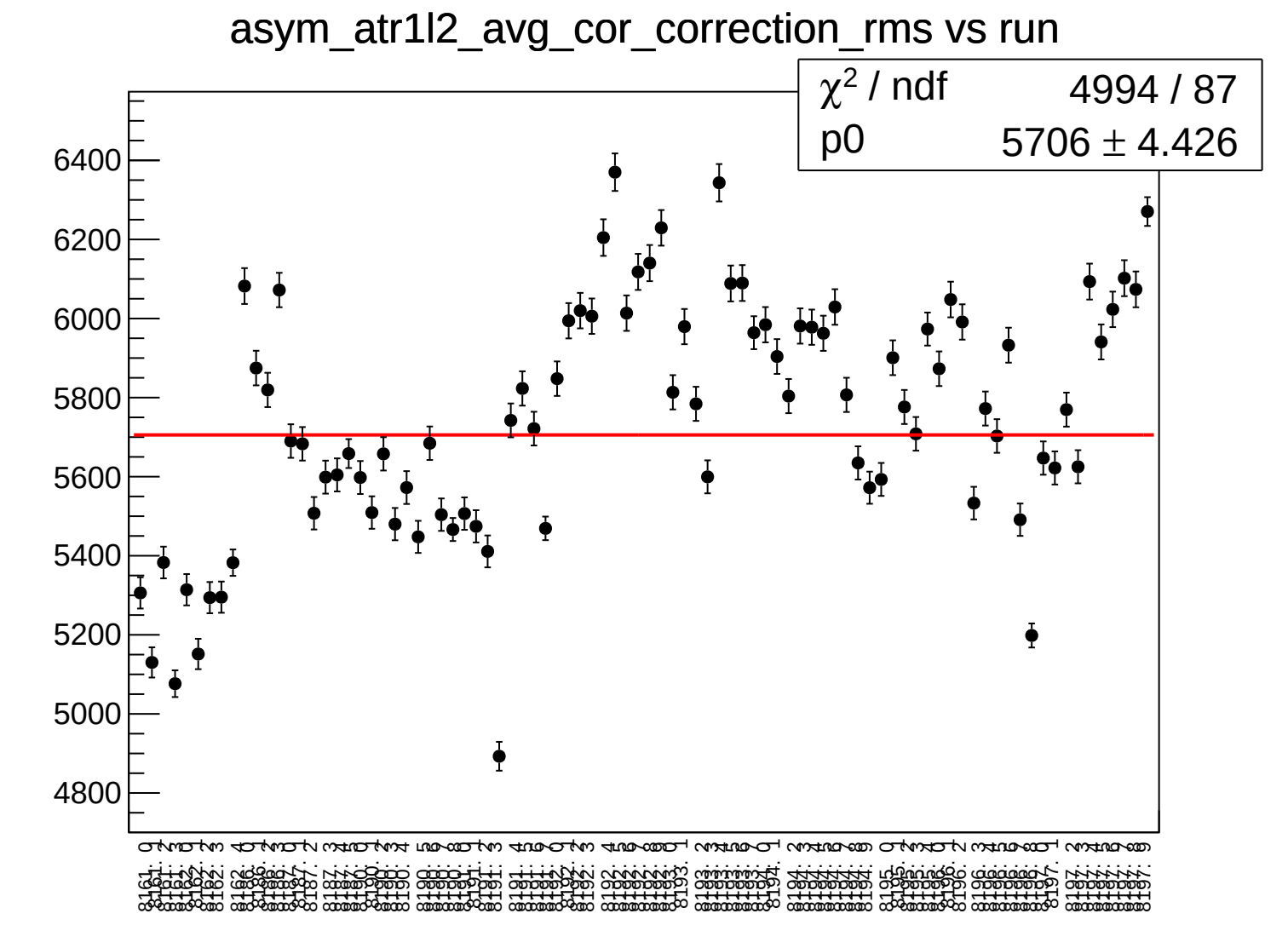

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4994 / 87
p0 5706 ± 4.426
6400
6200
6000
5800
5600
5400
5200
5000
4800

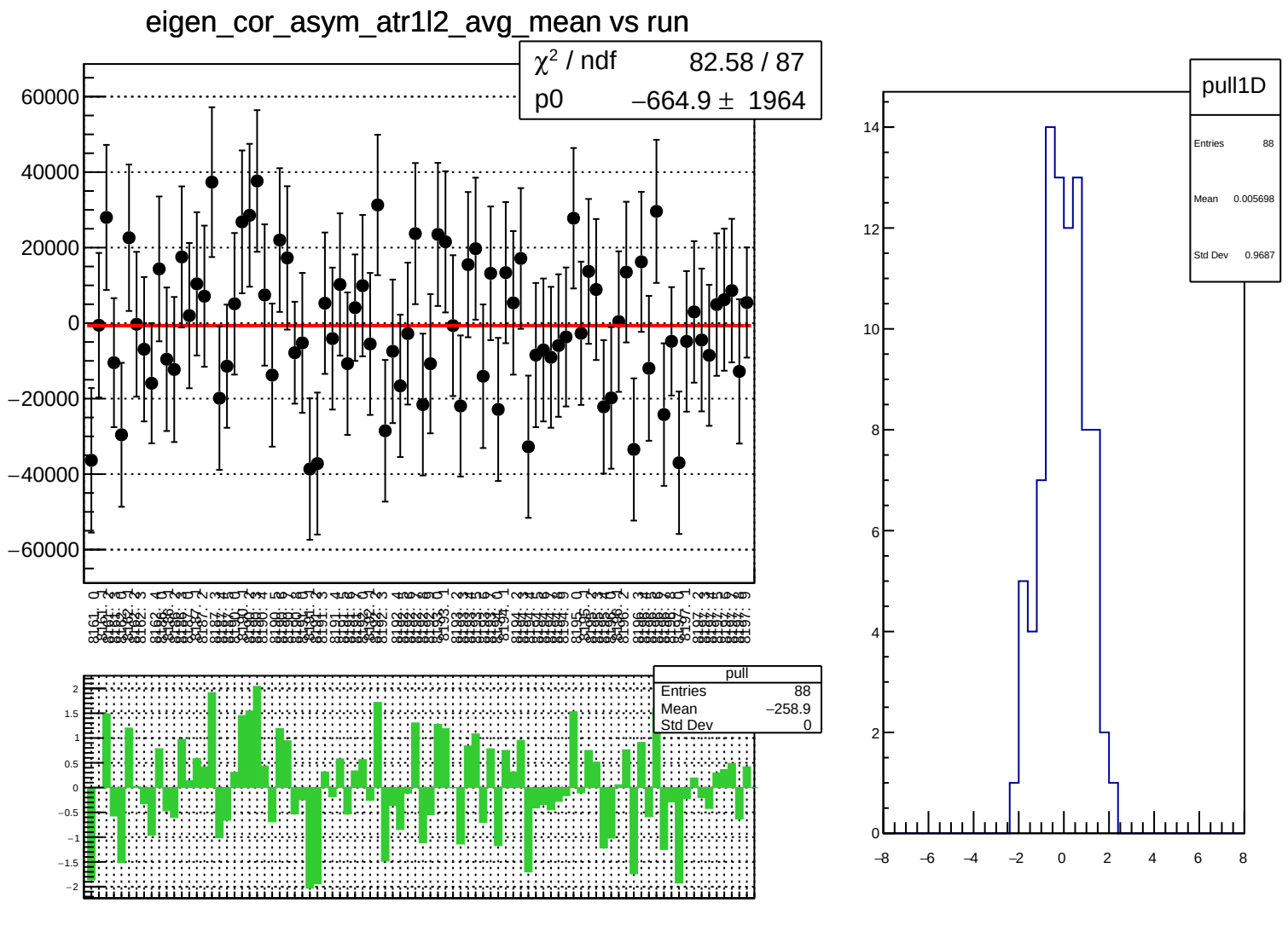

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 82.58 / 87
p0 −664.9 ± 1964
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −258.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.005698
Std Dev 0.9687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

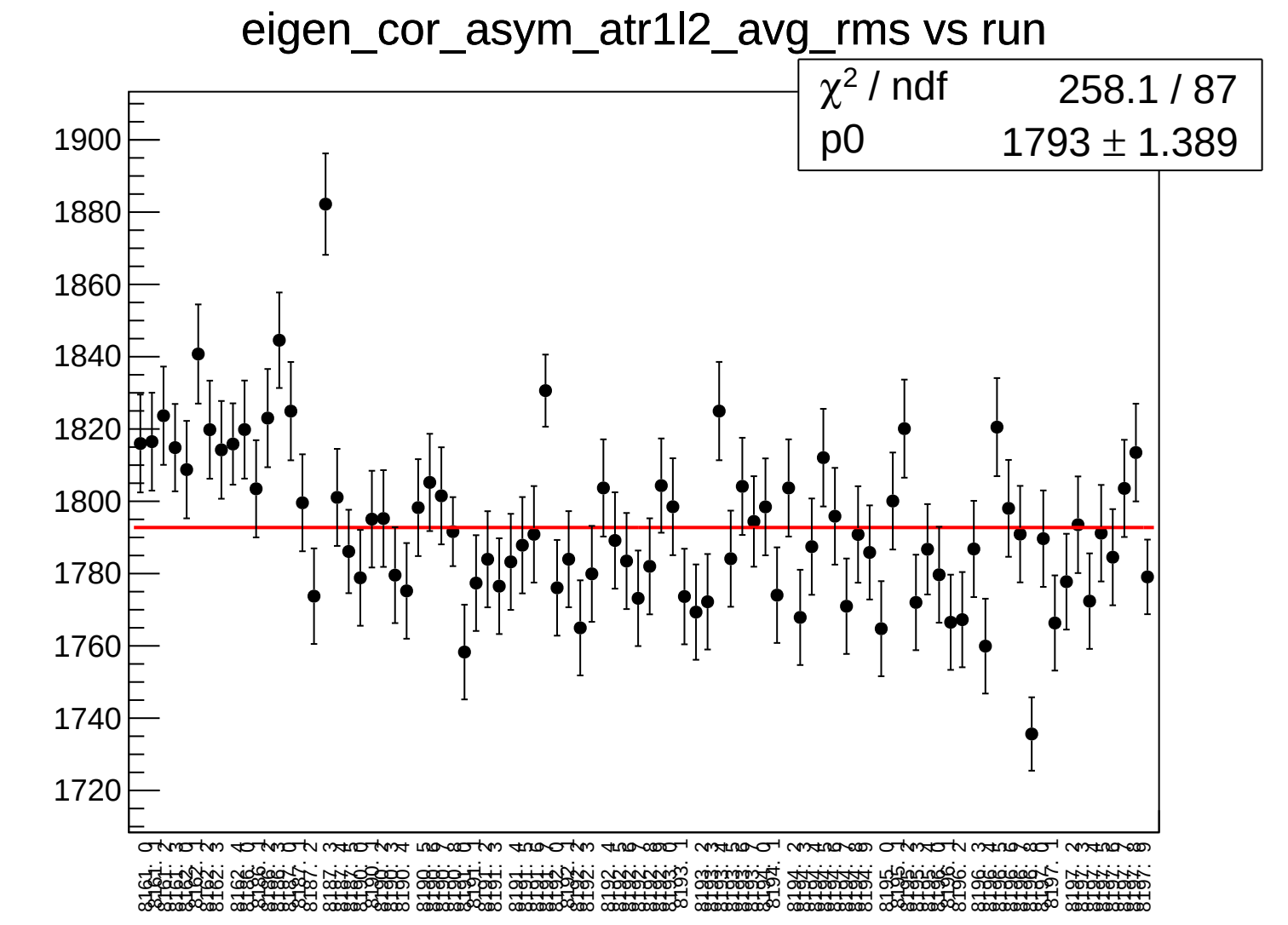

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 258.1 / 87
p0 1793 ± 1.389
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

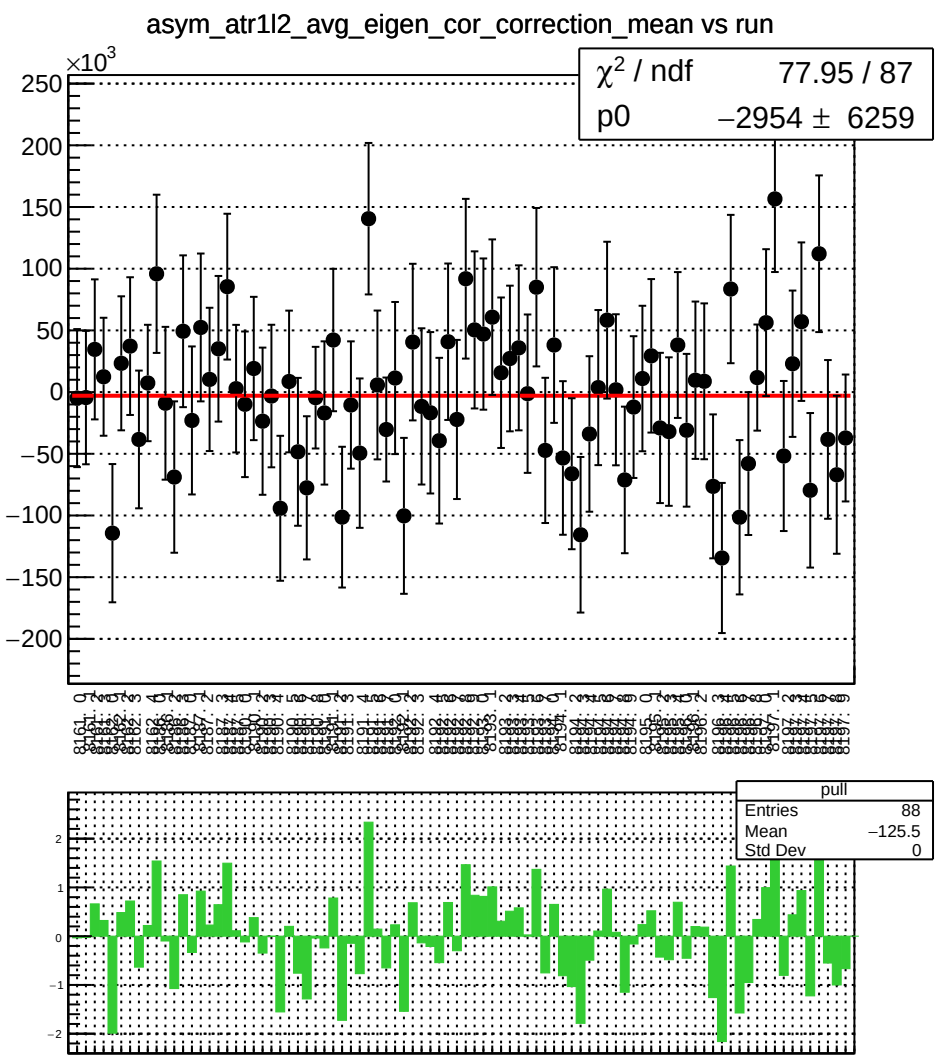

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 77.95 / 87
p0 −2954 ± 6259
pull
Entries 88
Mean −125.5
Std Dev 0

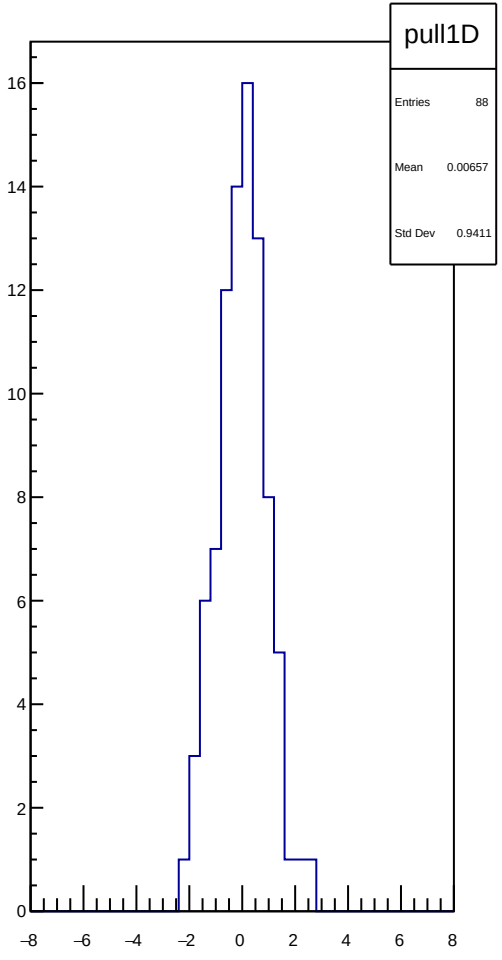

pull1D
Entries 88
Mean 0.00657
Std Dev 0.9411

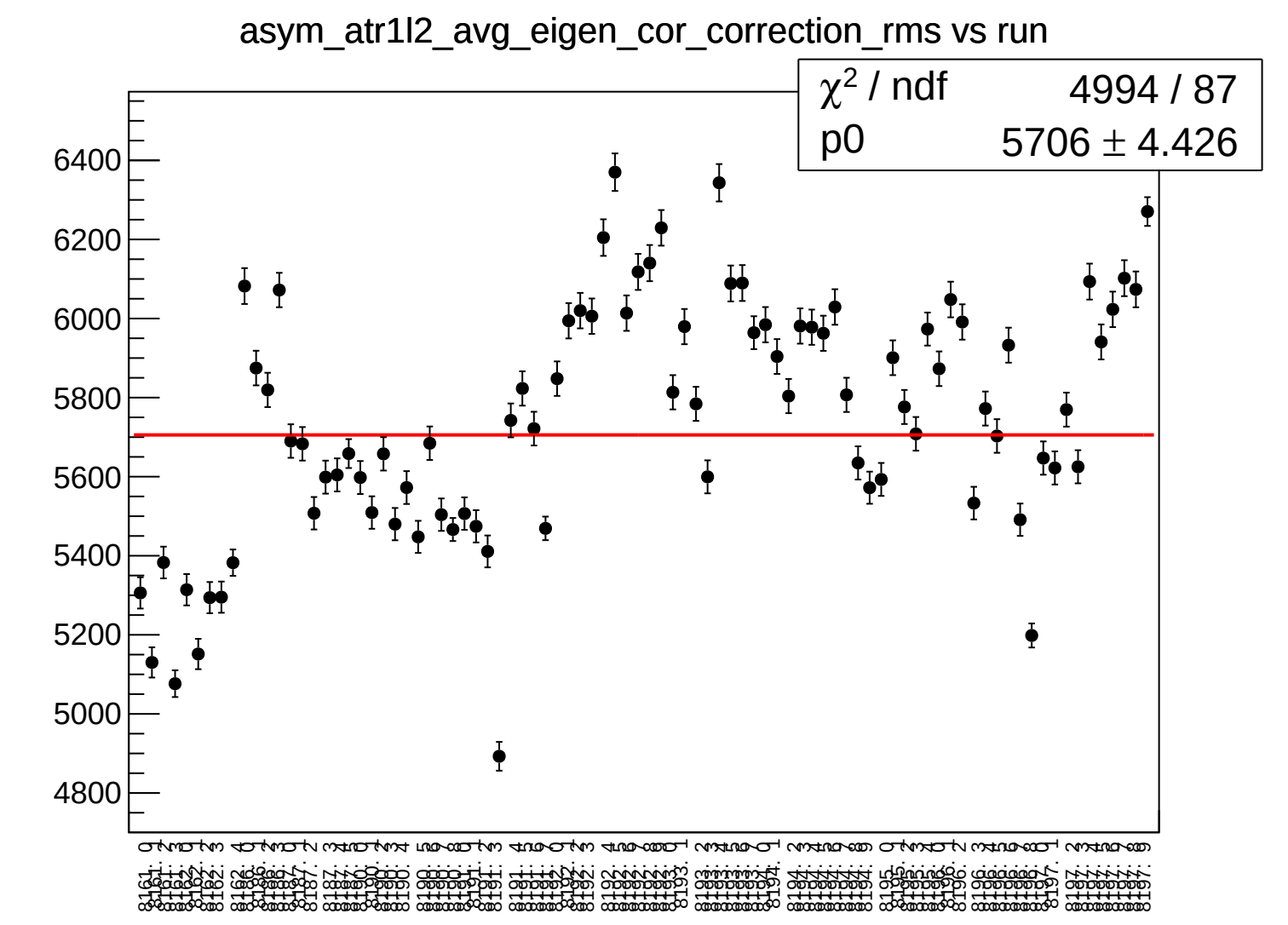

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4994 / 87
p0 5706 ± 4.426
6400
6200
6000
5800
5600
5400
5200
5000
4800

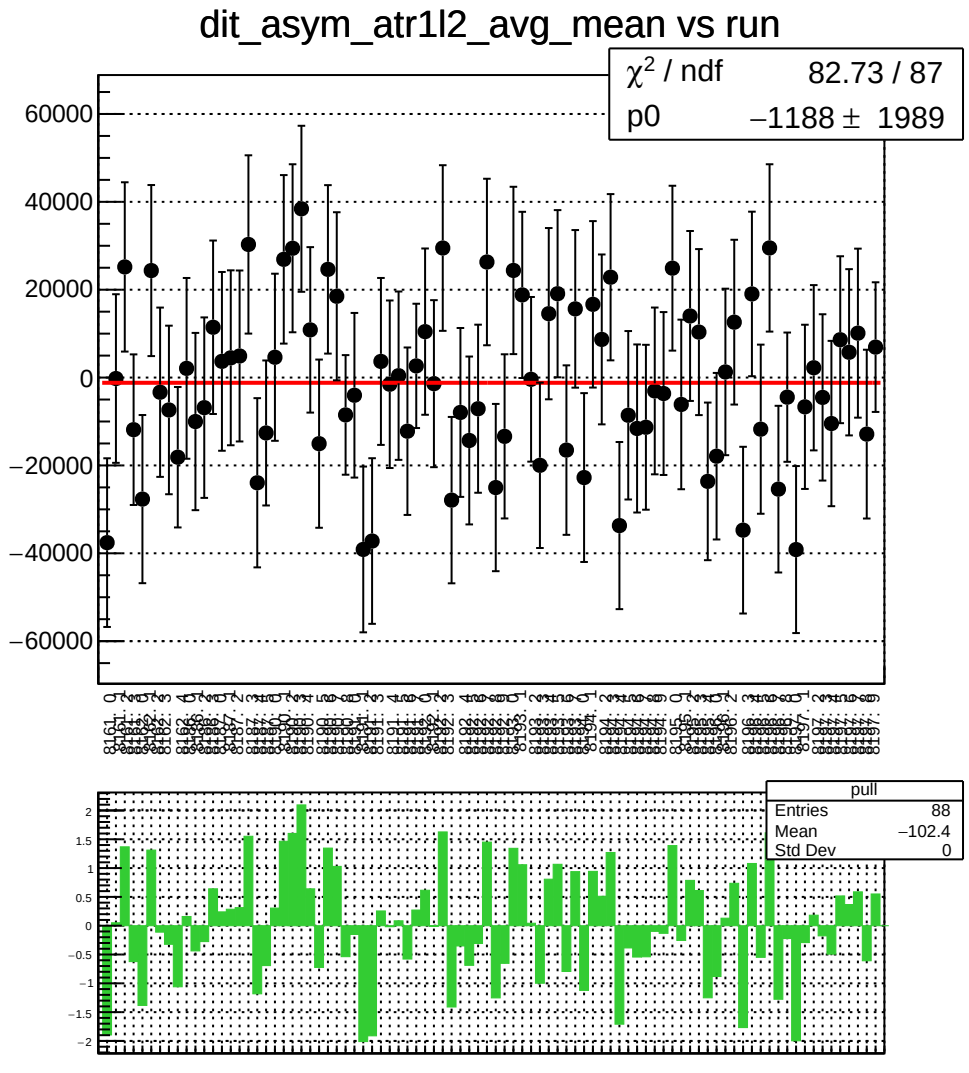

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 82.58 / 87
p0 −664.9 ± 1964
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −258.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.005698
Std Dev 0.9687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

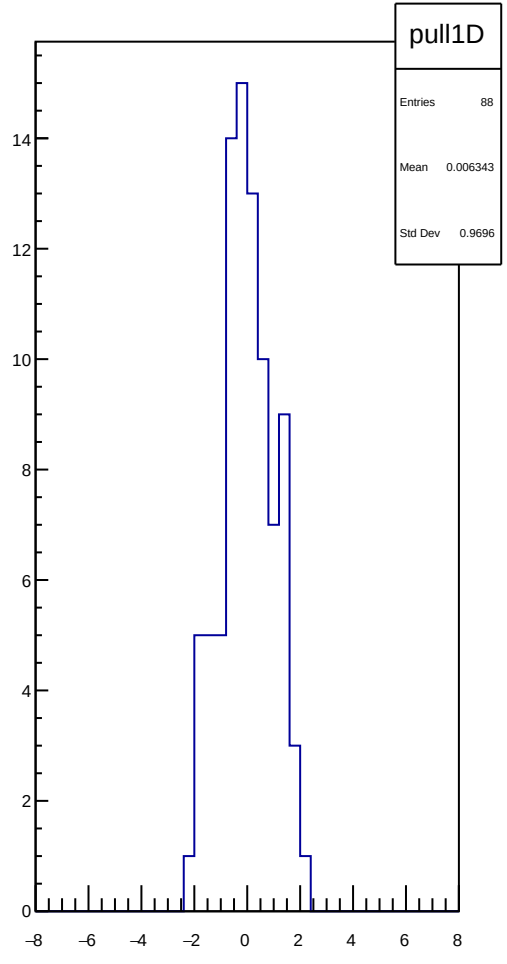

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 258.1 / 87
p0 1793 ± 1.389
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

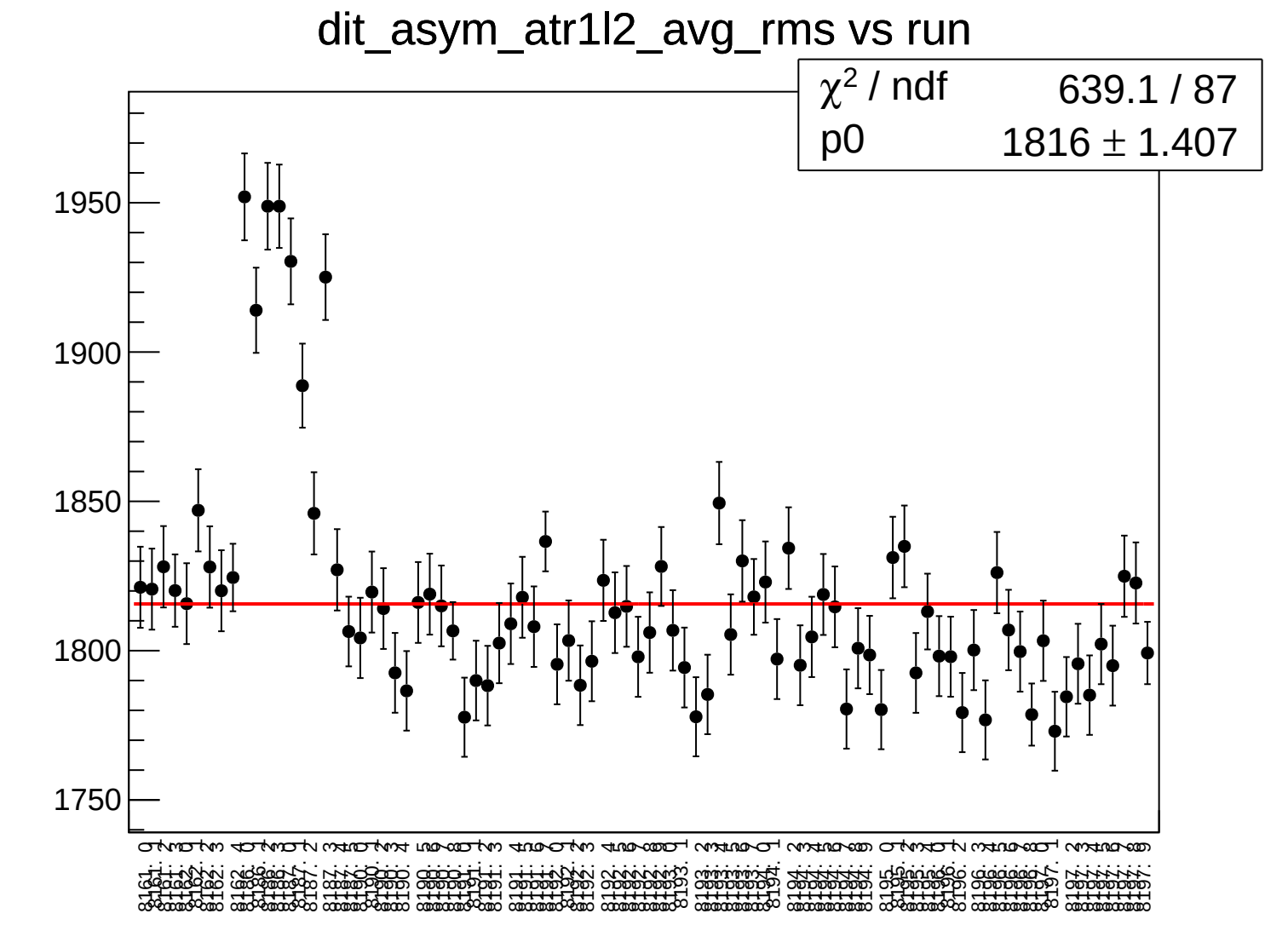

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.95 / 87
p0 −2954 ± 6259
pull
Entries 88
Mean −125.5
Std Dev 0

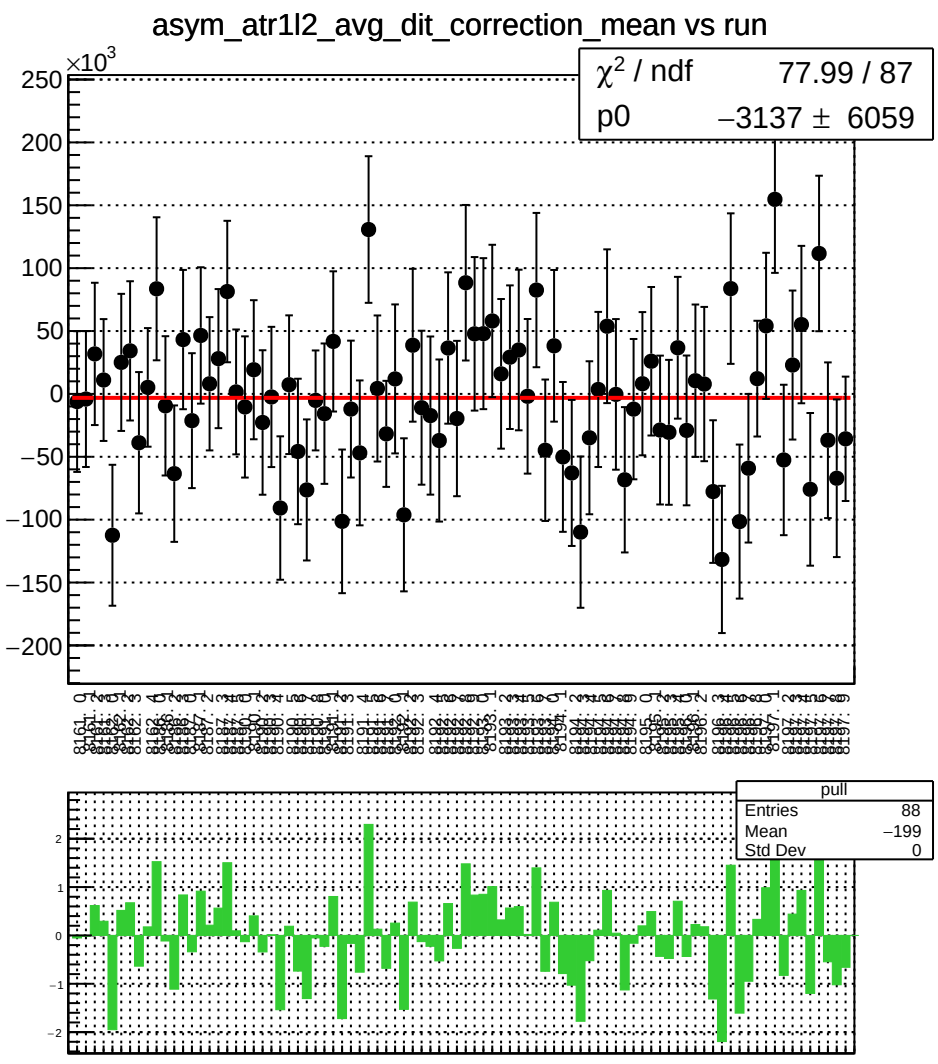

pull1D
Entries 88
Mean 0.00657
Std Dev 0.9411

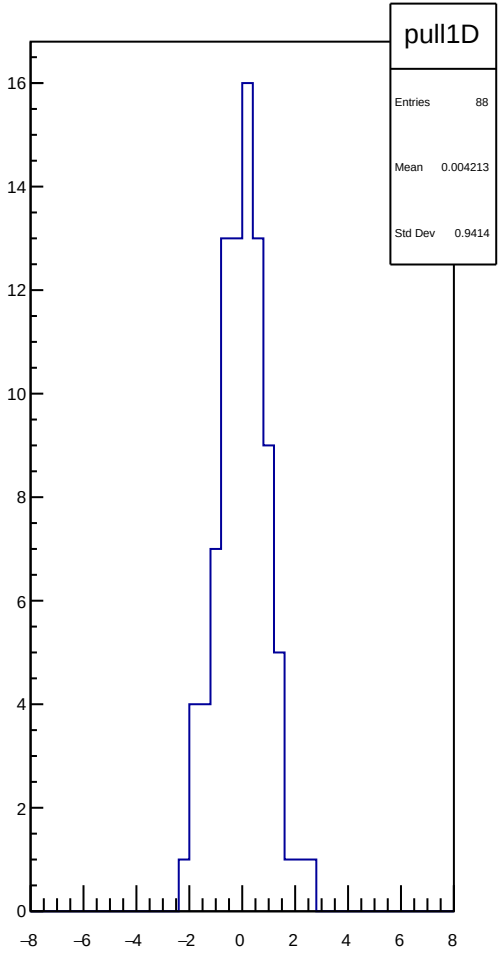

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4994 / 87
p0 5706 ± 4.426
6400
6200
6000
5800
5600
5400
5200
5000
4800

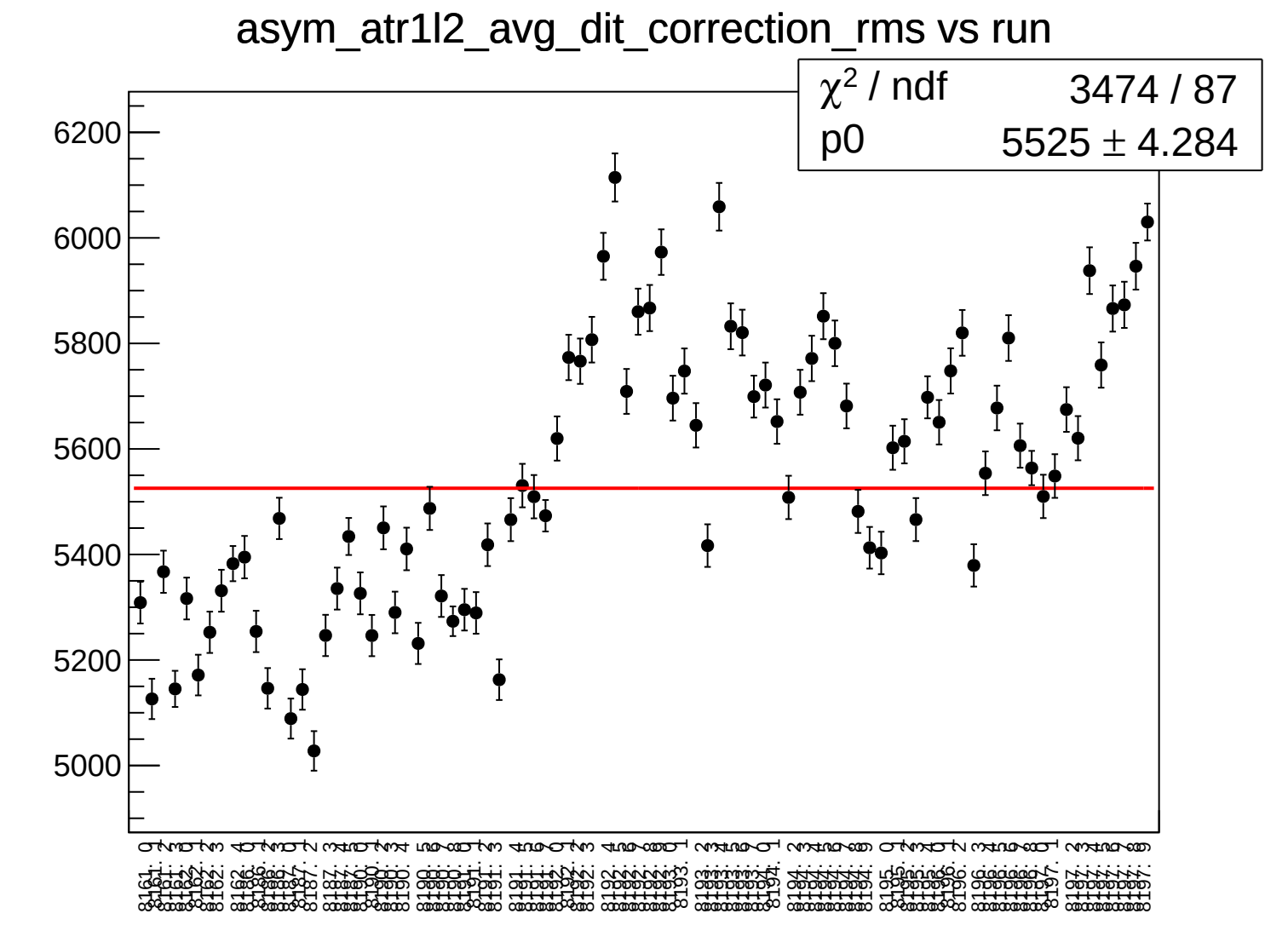

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 82.73 / 87
p0 −1188 ± 1989
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −102.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

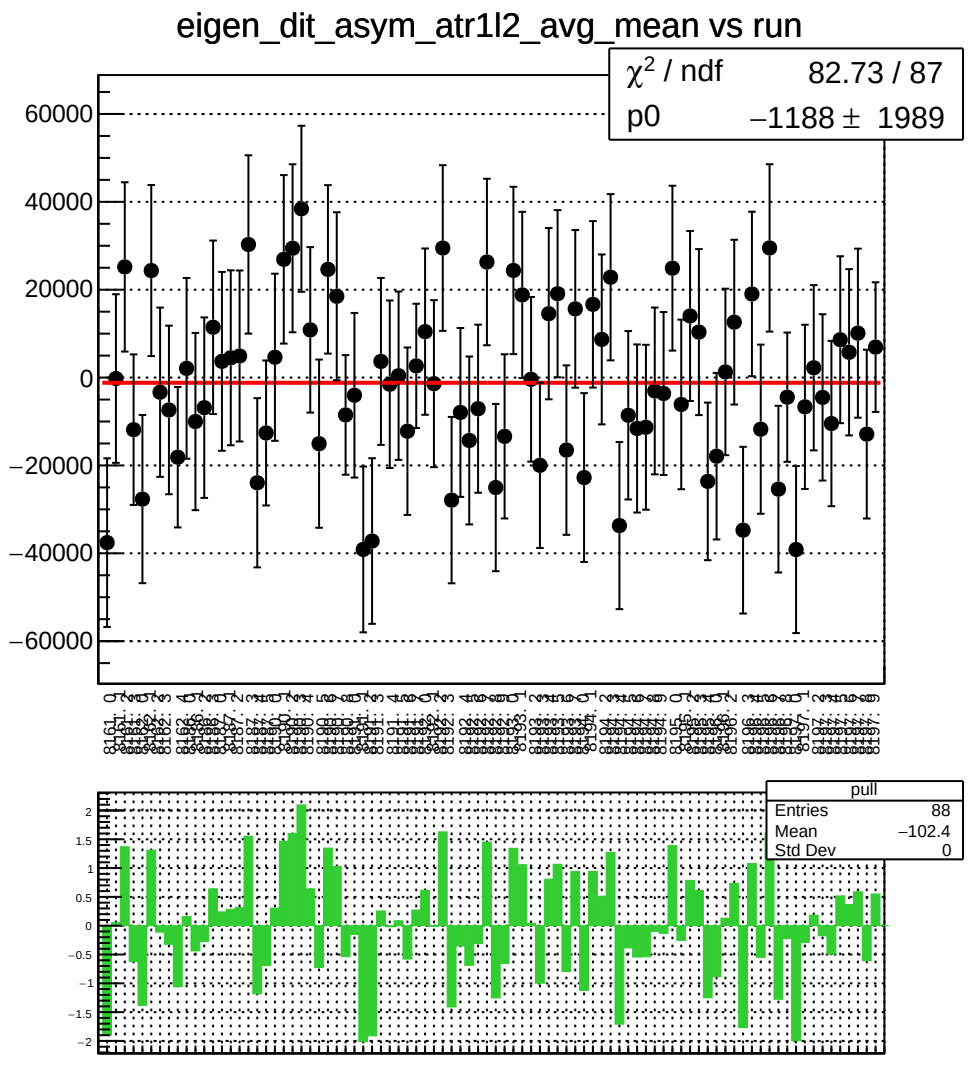

pull1D
Entries 88
Mean 0.006343
Std Dev 0.9696
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

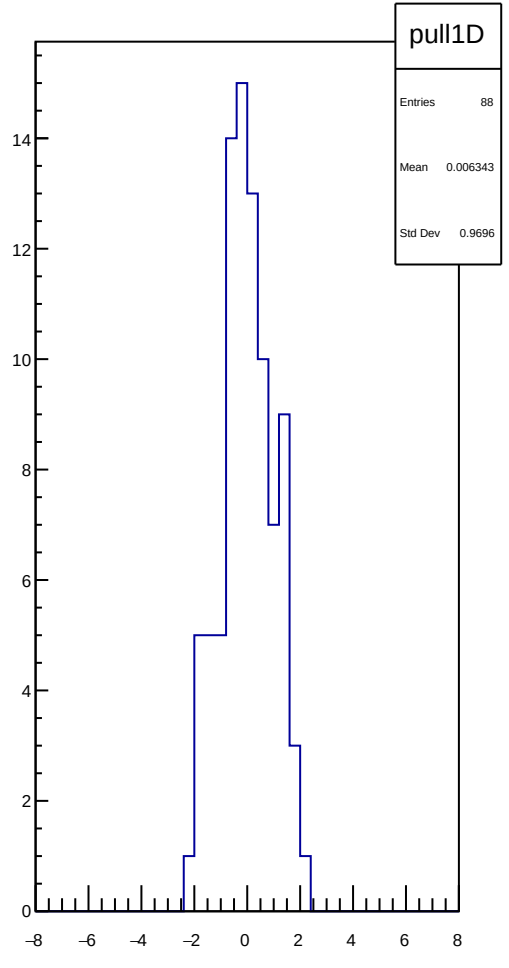

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 639.1 / 87
p0 1816 ± 1.407
1950
1900
1850
1800
1750

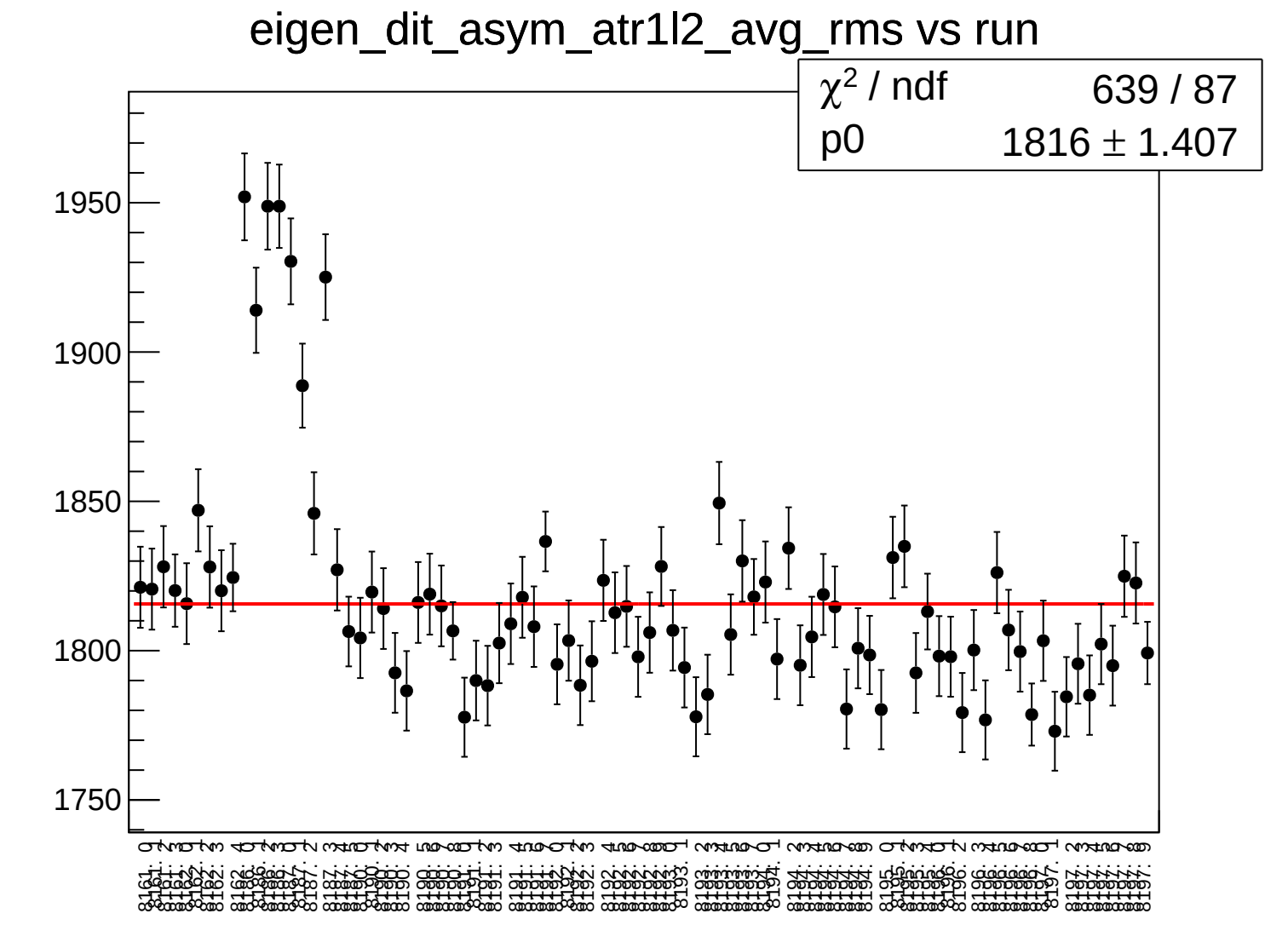

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.99 / 87
p0 −3137 ± 6059
pull
Entries 88
Mean −199
Std Dev 0

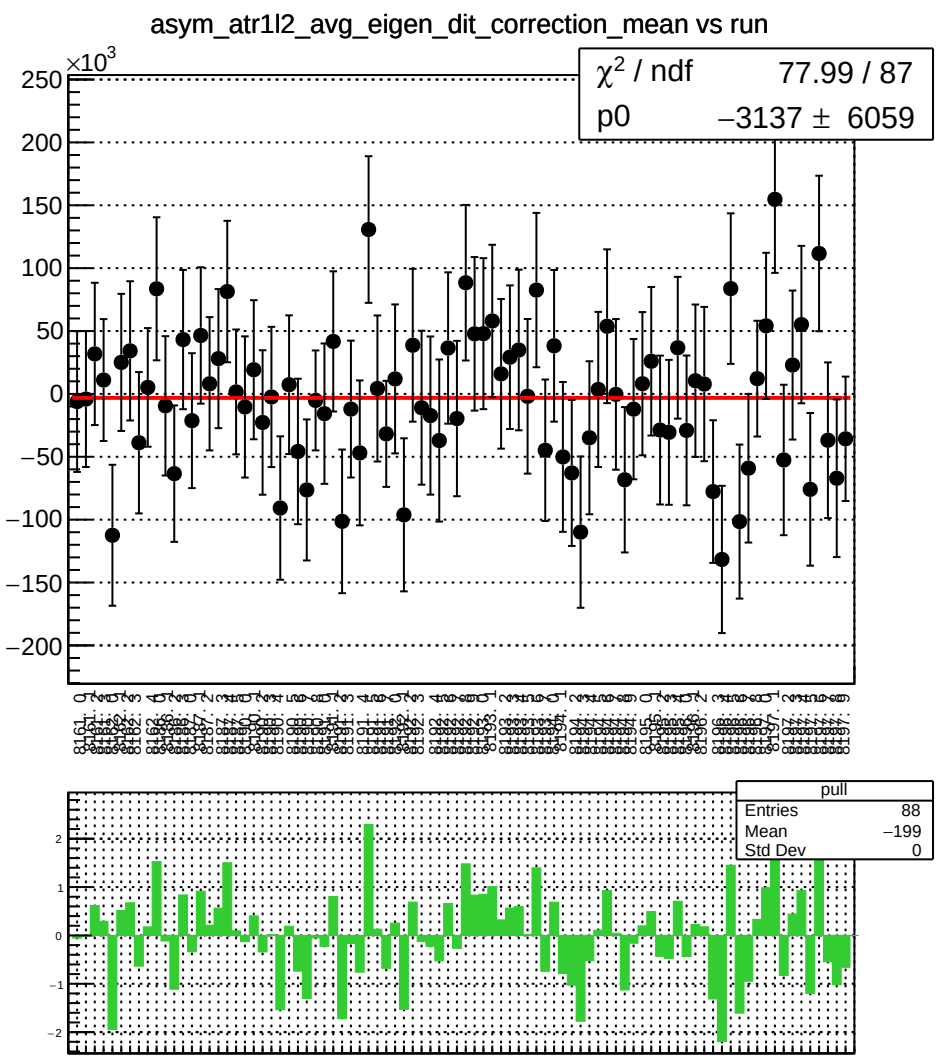

pull1D
Entries 88
Mean 0.004213
Std Dev 0.9414

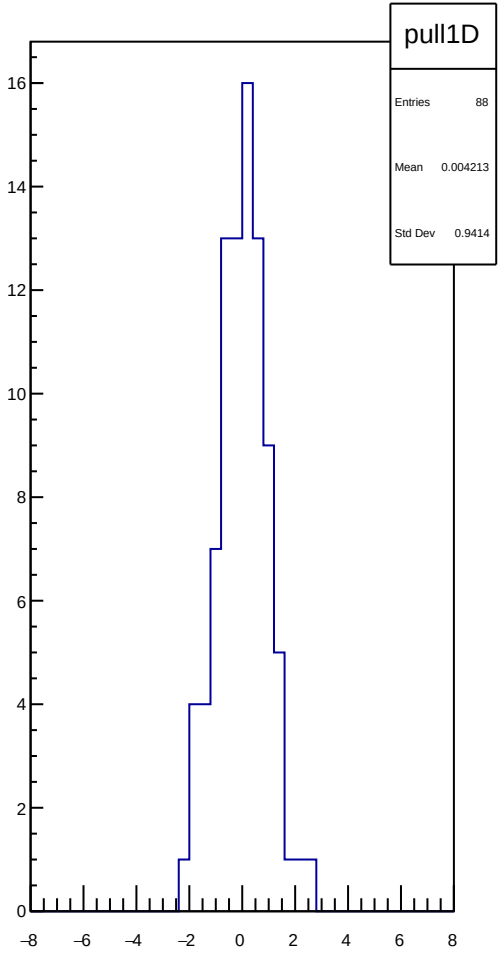

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 3474 / 87
p0 5525 ± 4.284
6200
6000
5800
5600
5400
5200
5000

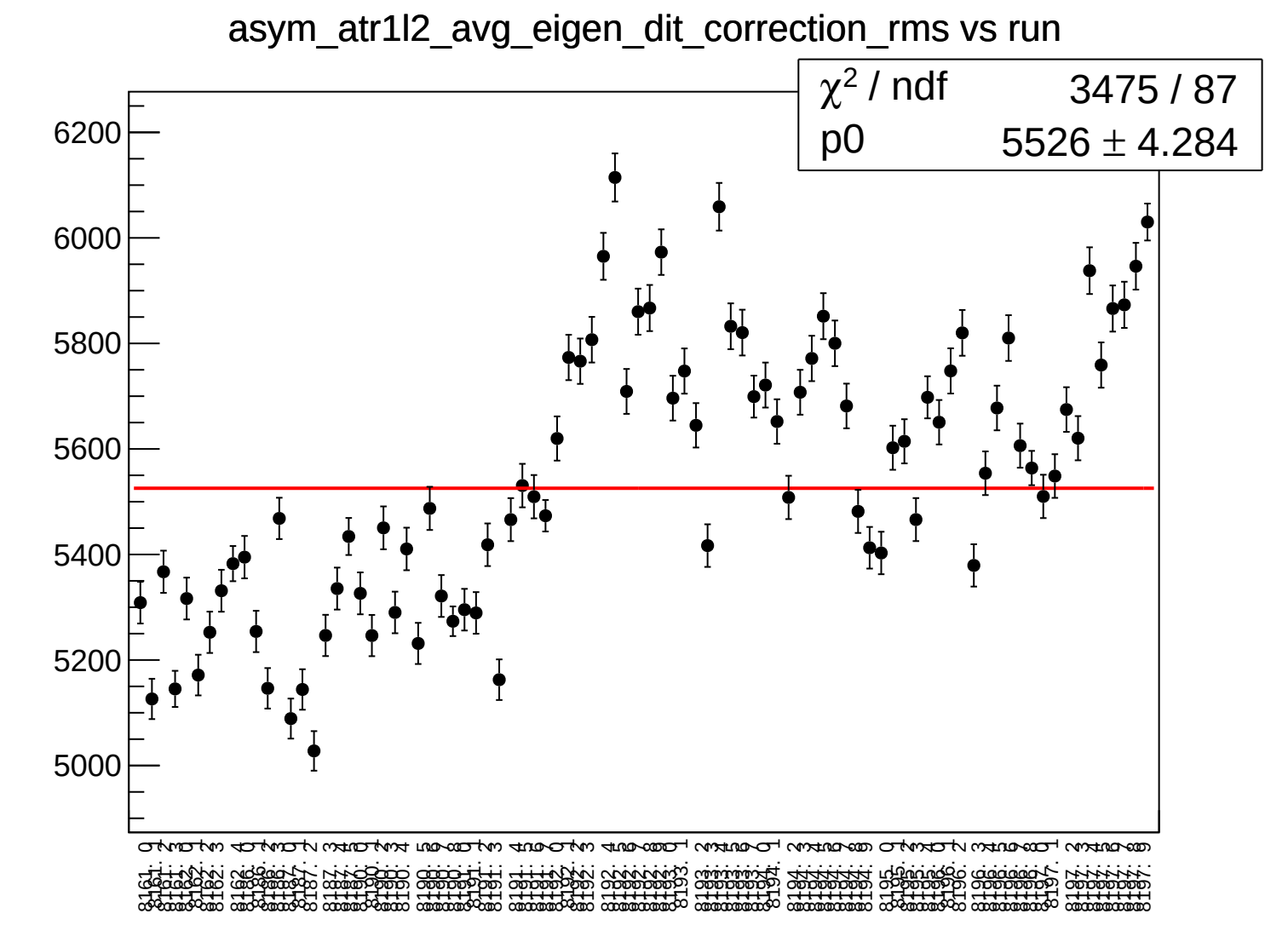

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 82.73 / 87
p0 −1188 ± 1989
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −102.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

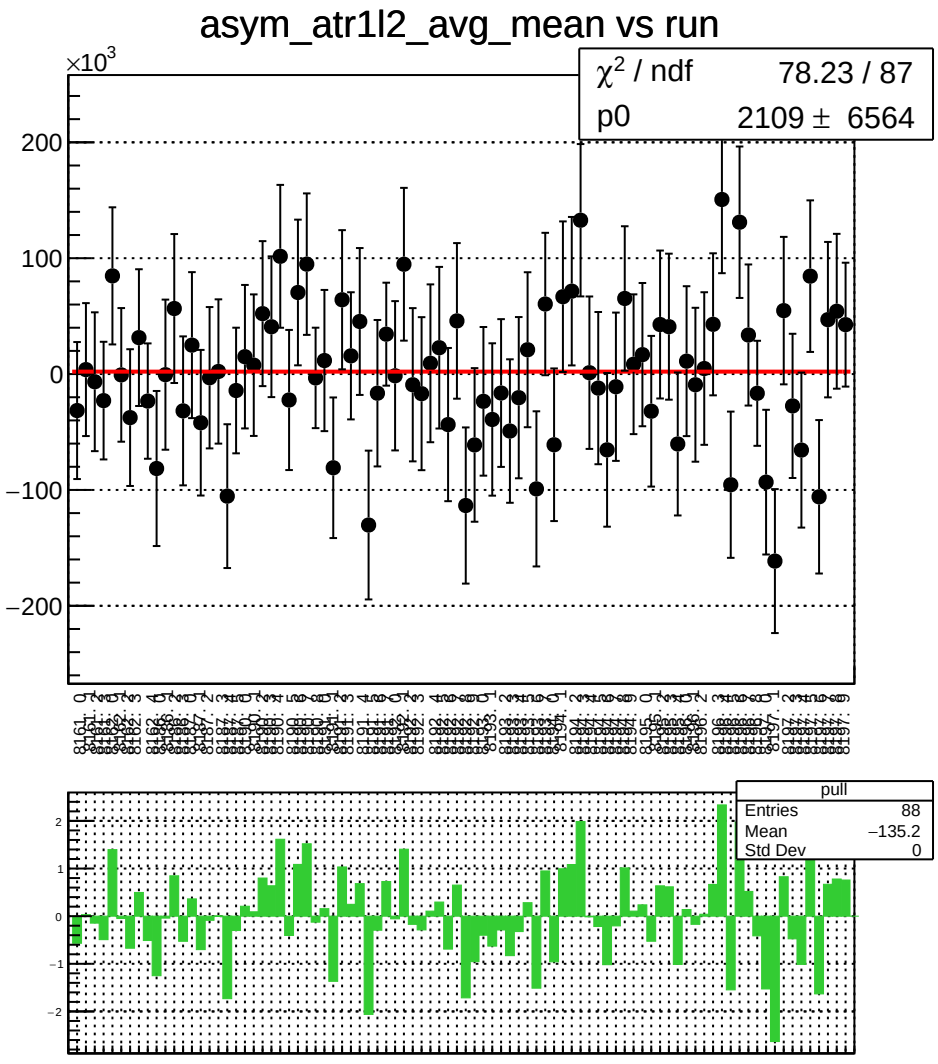

pull1D
Entries 88
Mean 0.006343
Std Dev 0.9696
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

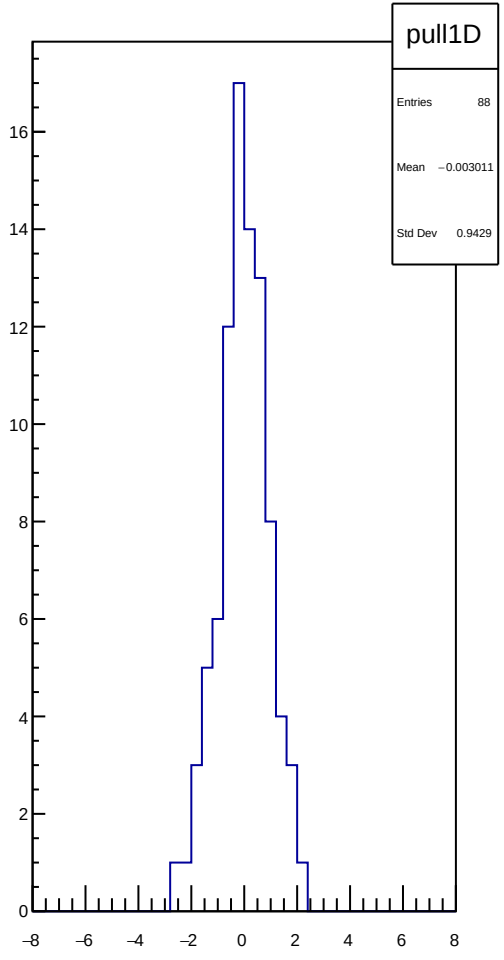

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 639 / 87
p0 1816 ± 1.407
1950
1900
1850
1800
1750

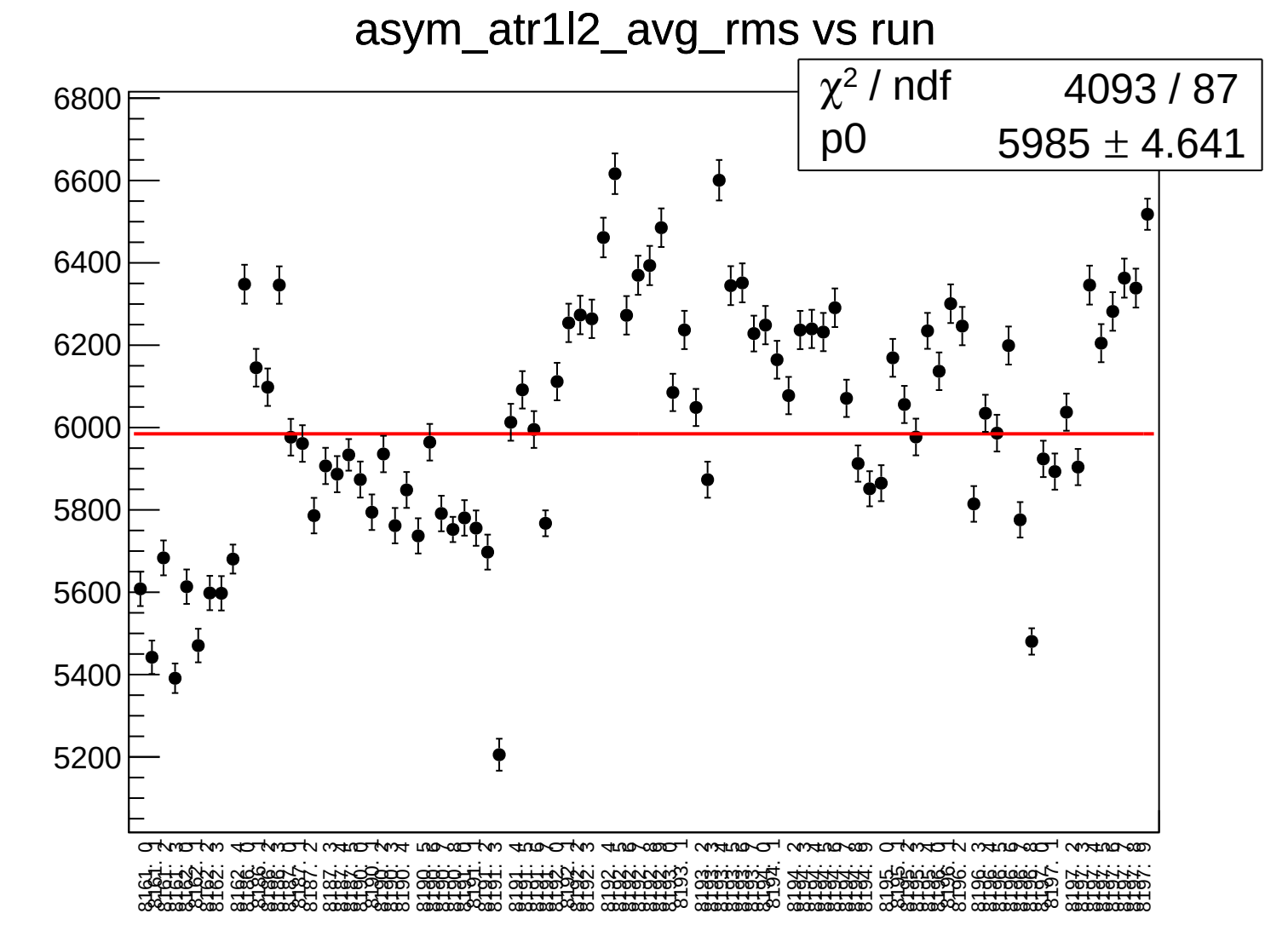

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.99 / 87
p0 −3137 ± 6059
pull
Entries 88
Mean −199
Std Dev 0

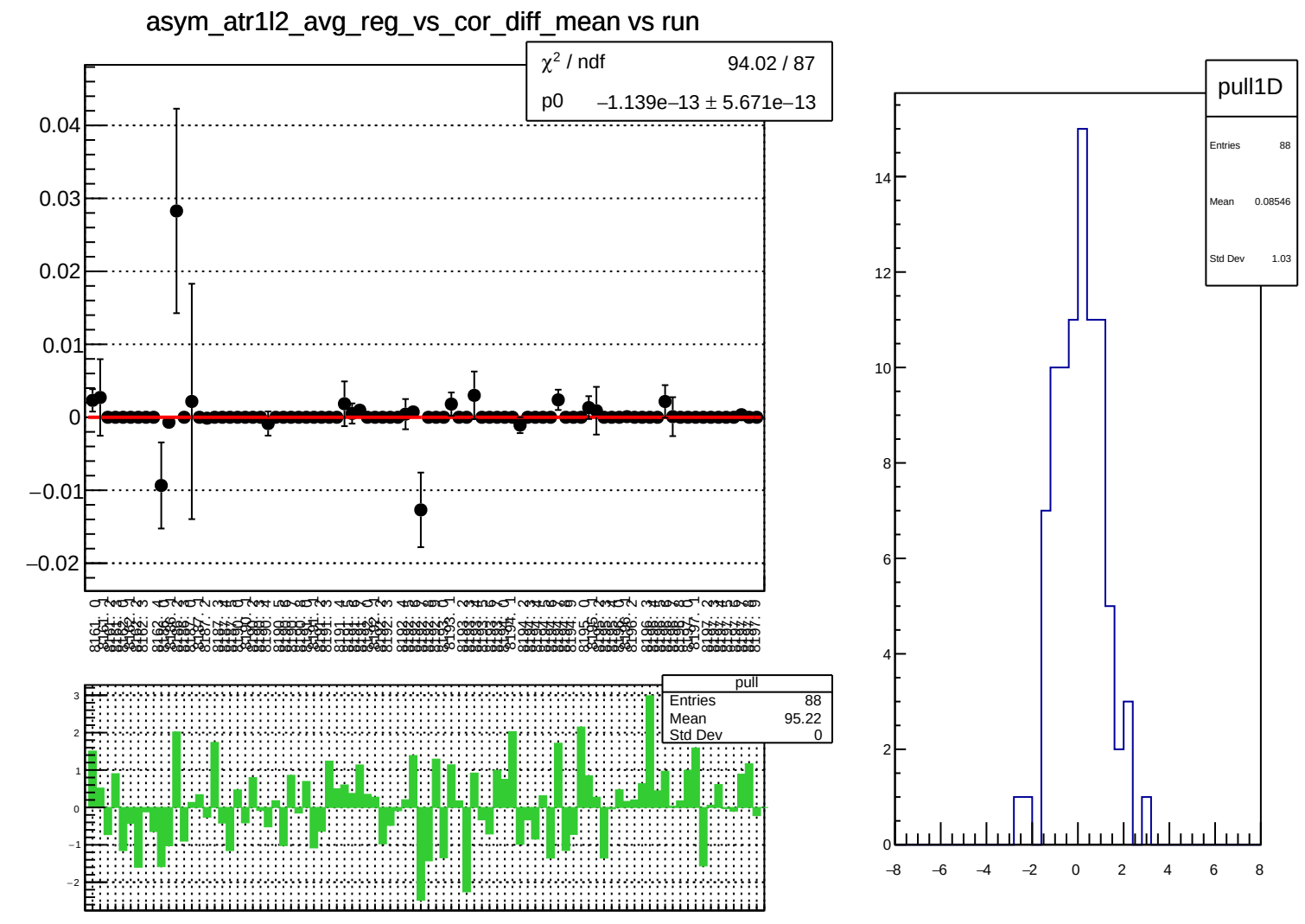

pull1D
Entries 88
Mean 0.004213
Std Dev 0.9414

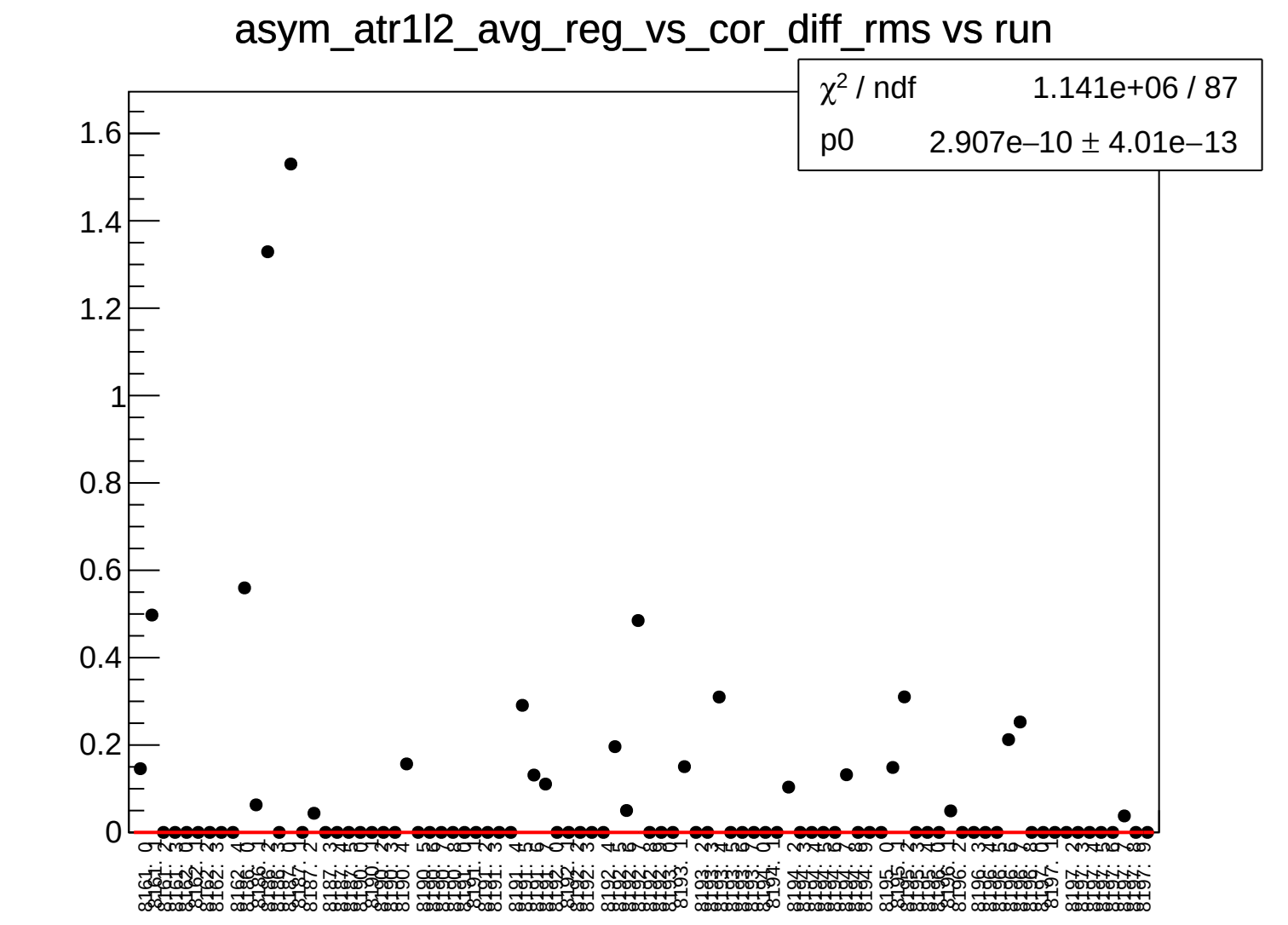

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3475 / 87
p0 5526 ± 4.284
6200
6000
5800
5600
5400
5200
5000

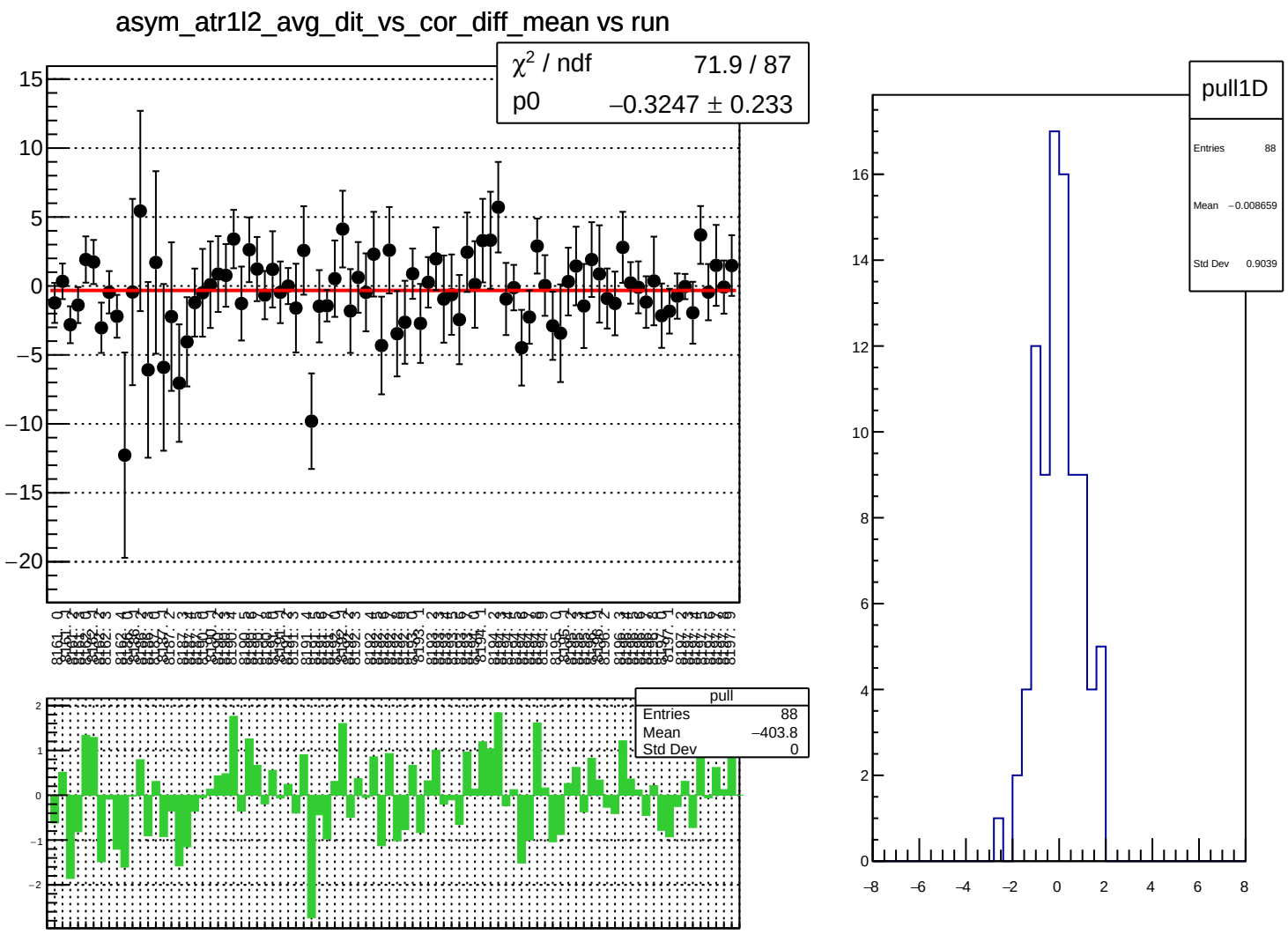

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 78.23 / 87
p0 2109 ± 6564
200
100
0
−100
−200
pull
Entries 88
Mean −135.2
Std Dev 0
2
1
0
−1
−2

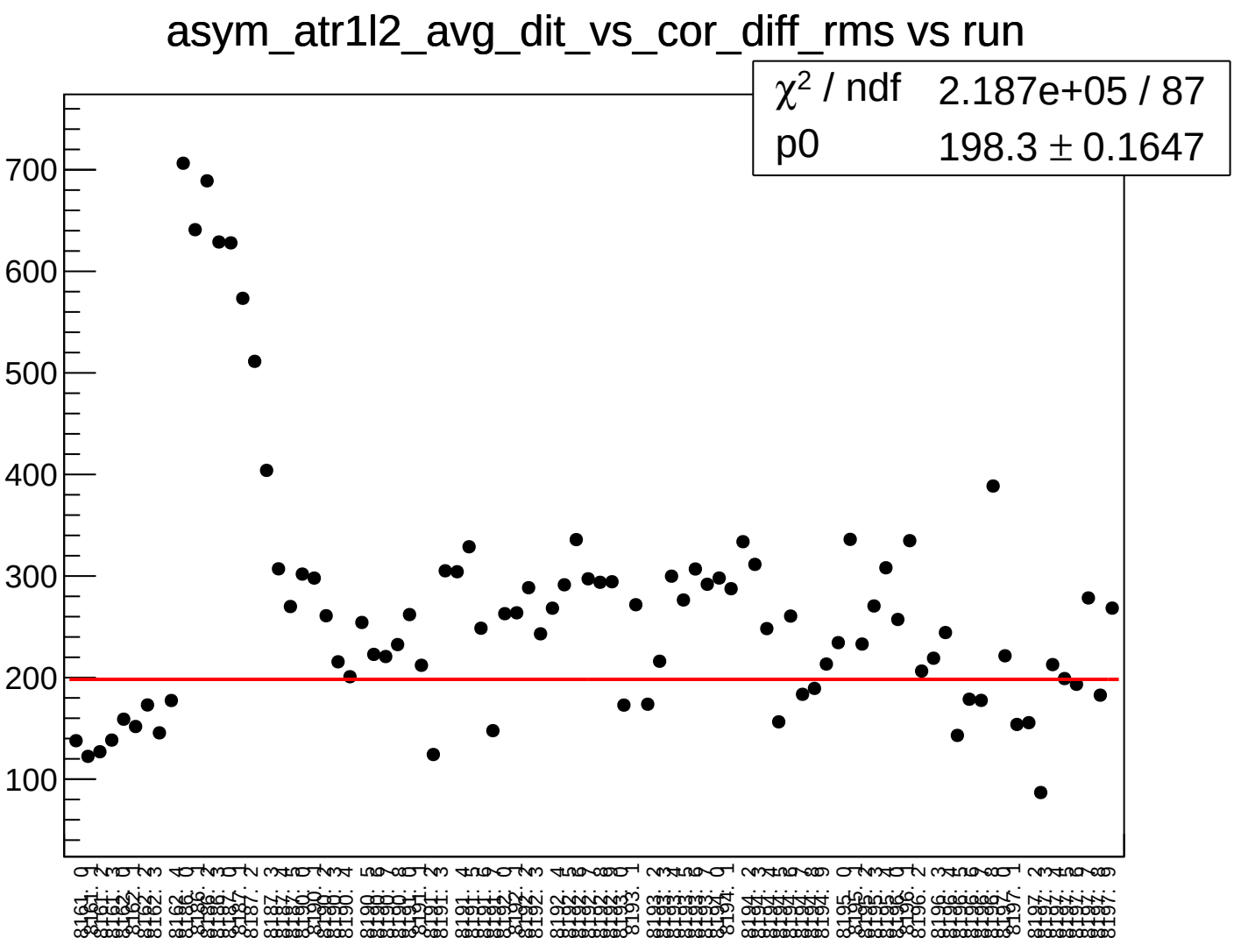

pull1D
Entries 88
Mean −0.003011
Std Dev 0.9429
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

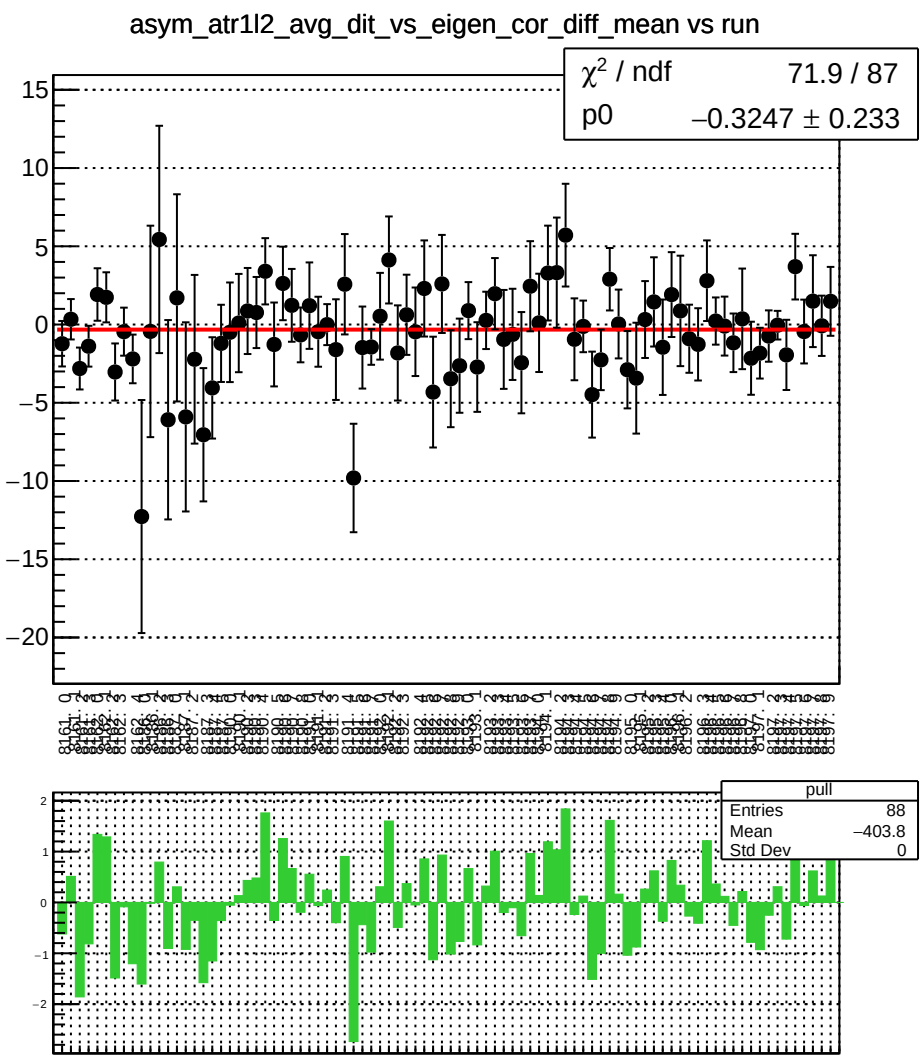

asym_atr1l2_avg_rms vs run
χ² / ndf 4093 / 87
p0 5985 ± 4.641
6800
6600
6400
6200
6000
5800
5600
5400
5200

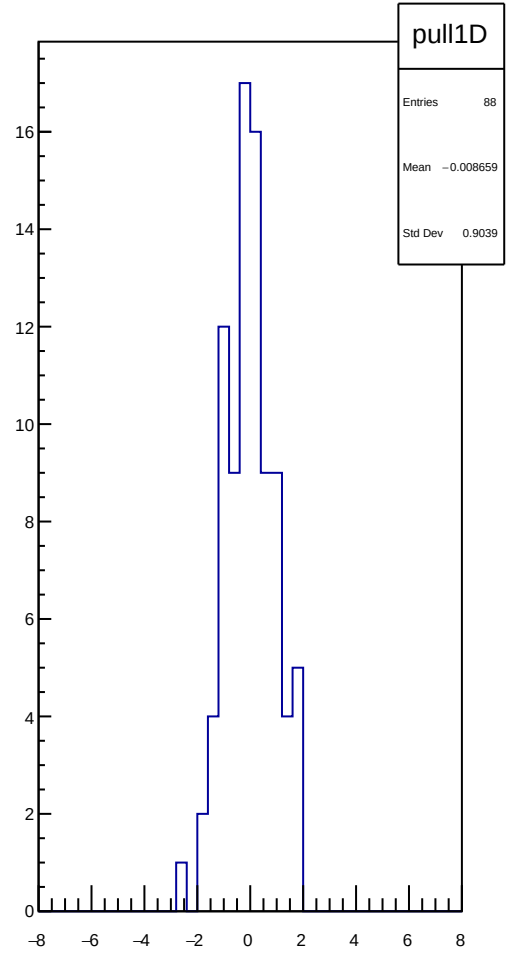

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.02 / 87
p0 −1.139e−13 ± 5.671e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 95.22
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.08546
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

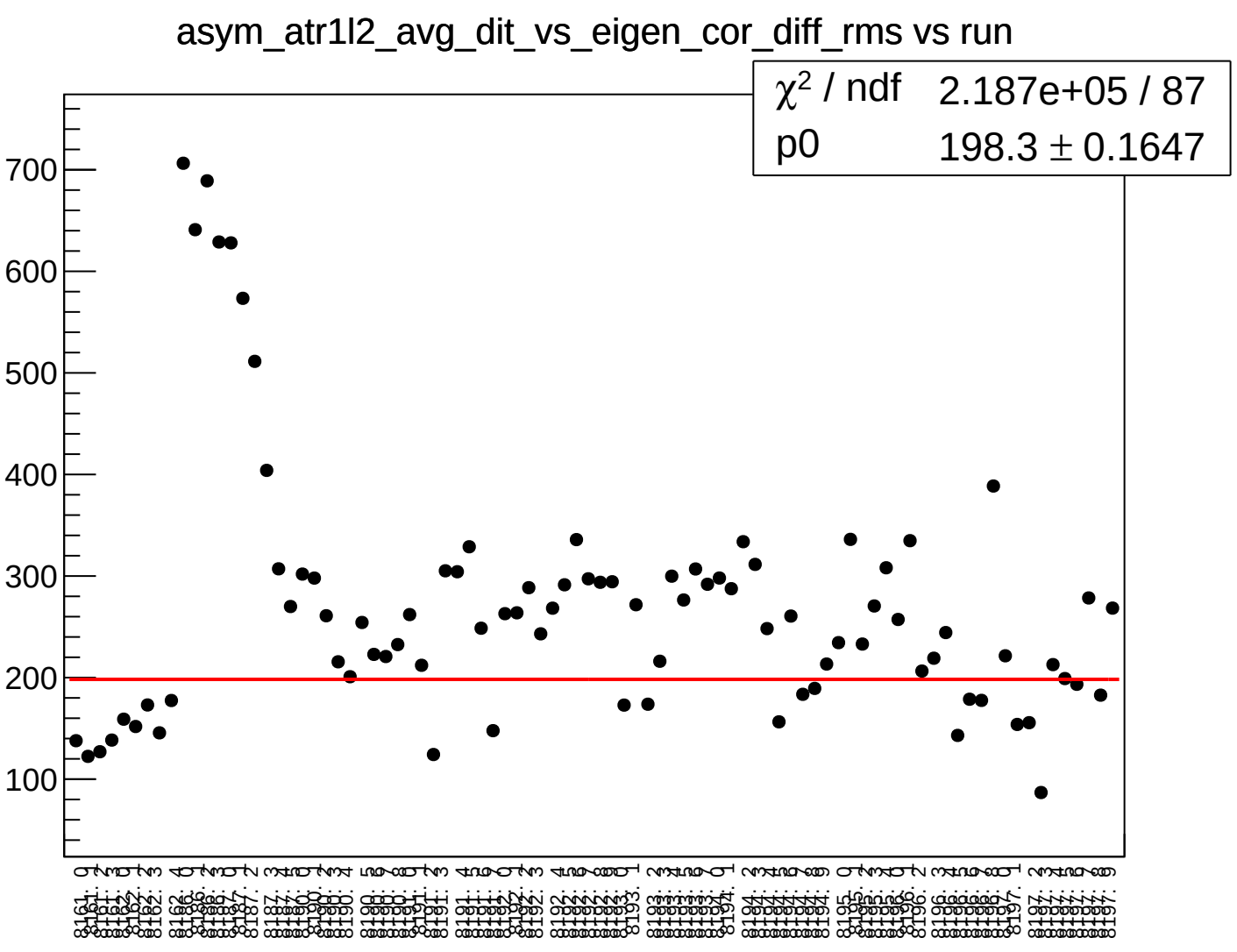

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.141e+06 / 87
p0 2.907e−10 ± 4.01e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

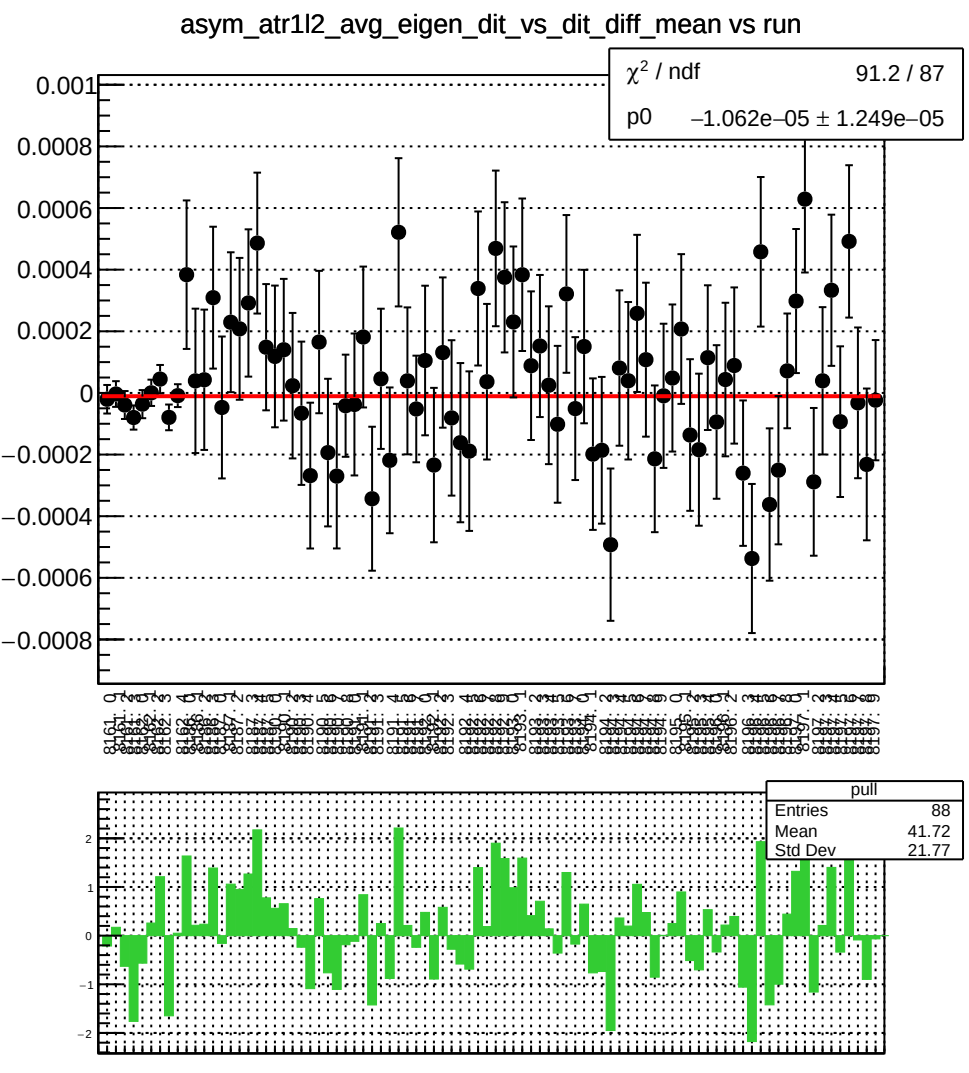

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.9 / 87
p0 −0.3247 ± 0.233
pull
Entries 88
Mean −403.8
Std Dev 0
pull1D
Entries 88
Mean −0.008659
Std Dev 0.9039

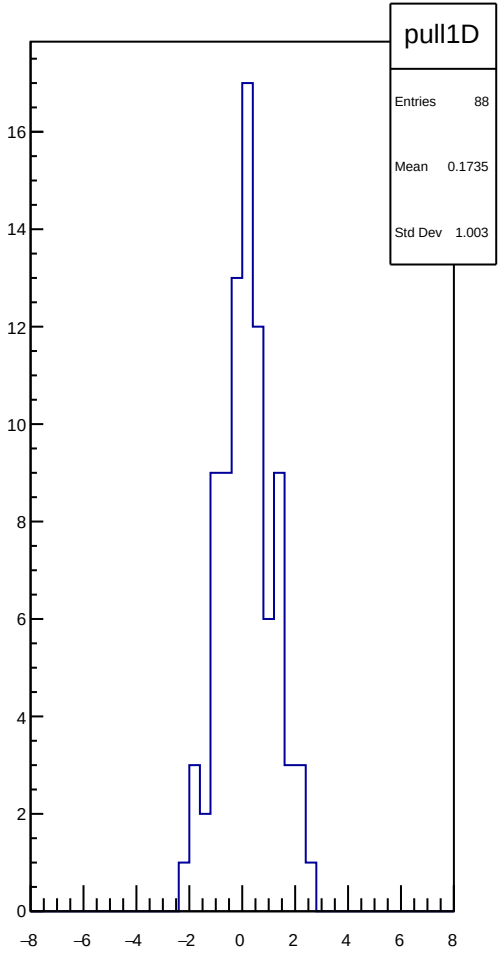

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.187e+05 / 87
p0 198.3 ± 0.1647
700
600
500
400
300
200
100

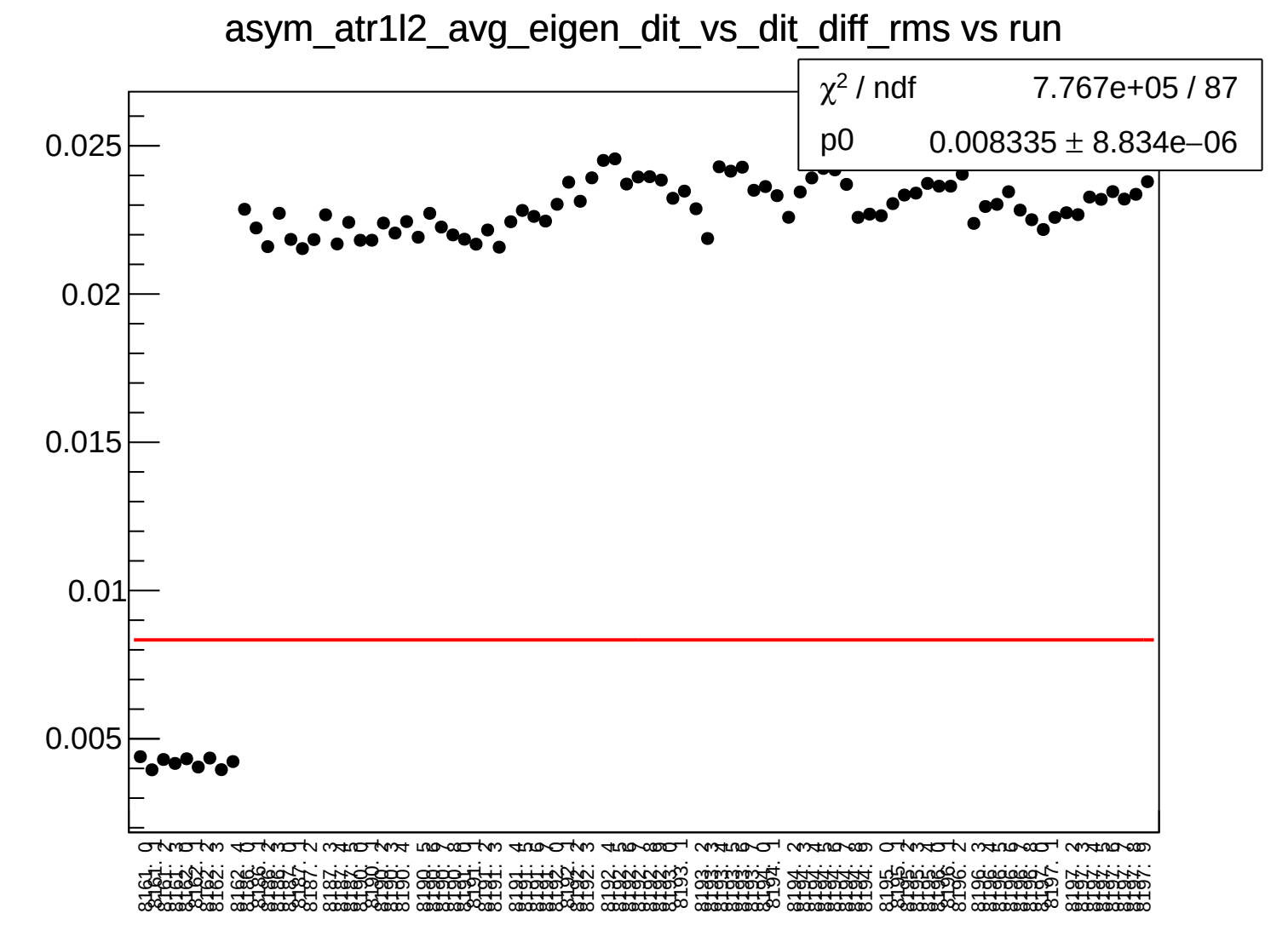

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.9 / 87
p0 −0.3247 ± 0.233
pull
Entries 88
Mean −403.8
Std Dev 0

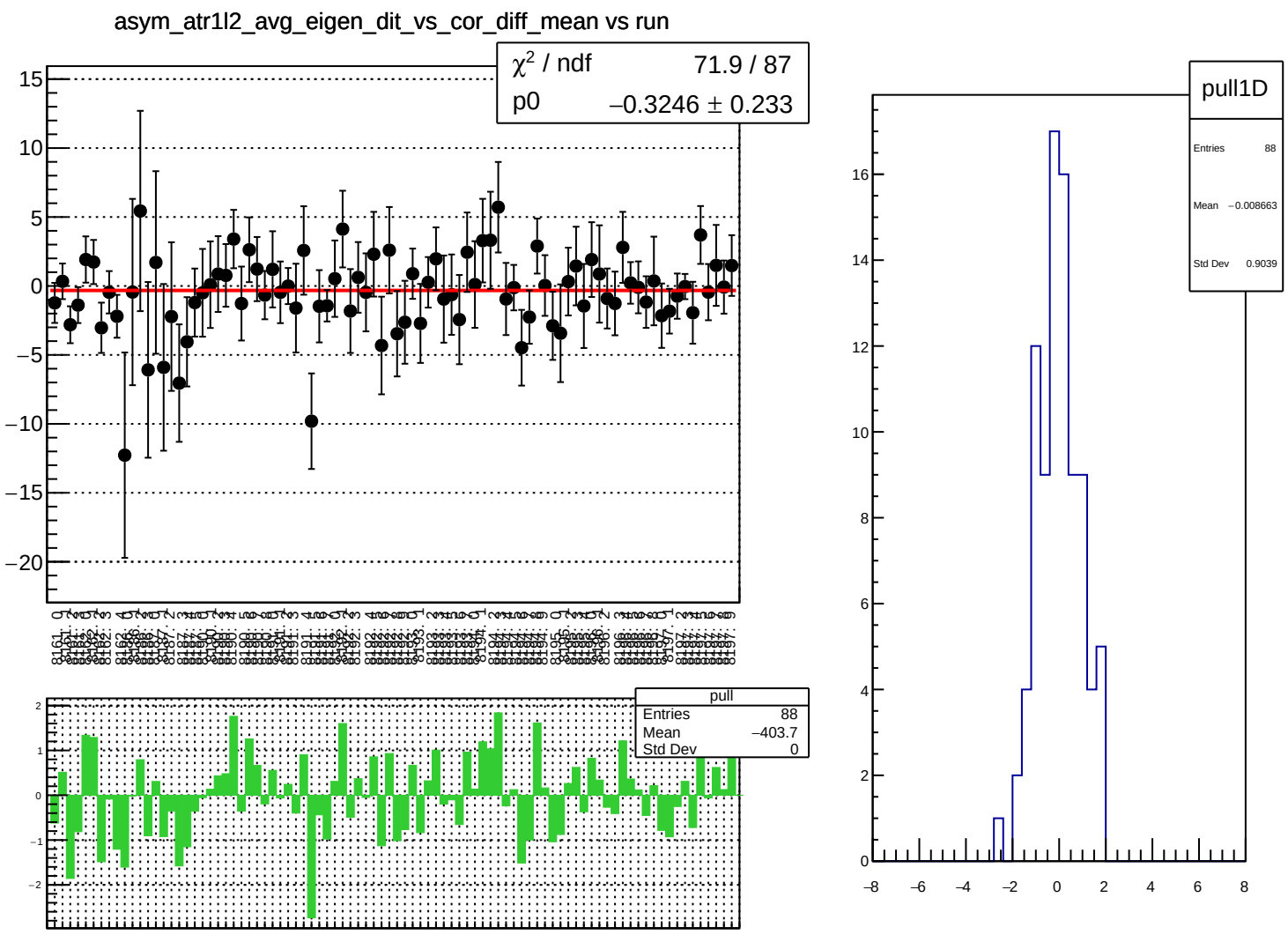

pull1D
Entries 88
Mean −0.008659
Std Dev 0.9039

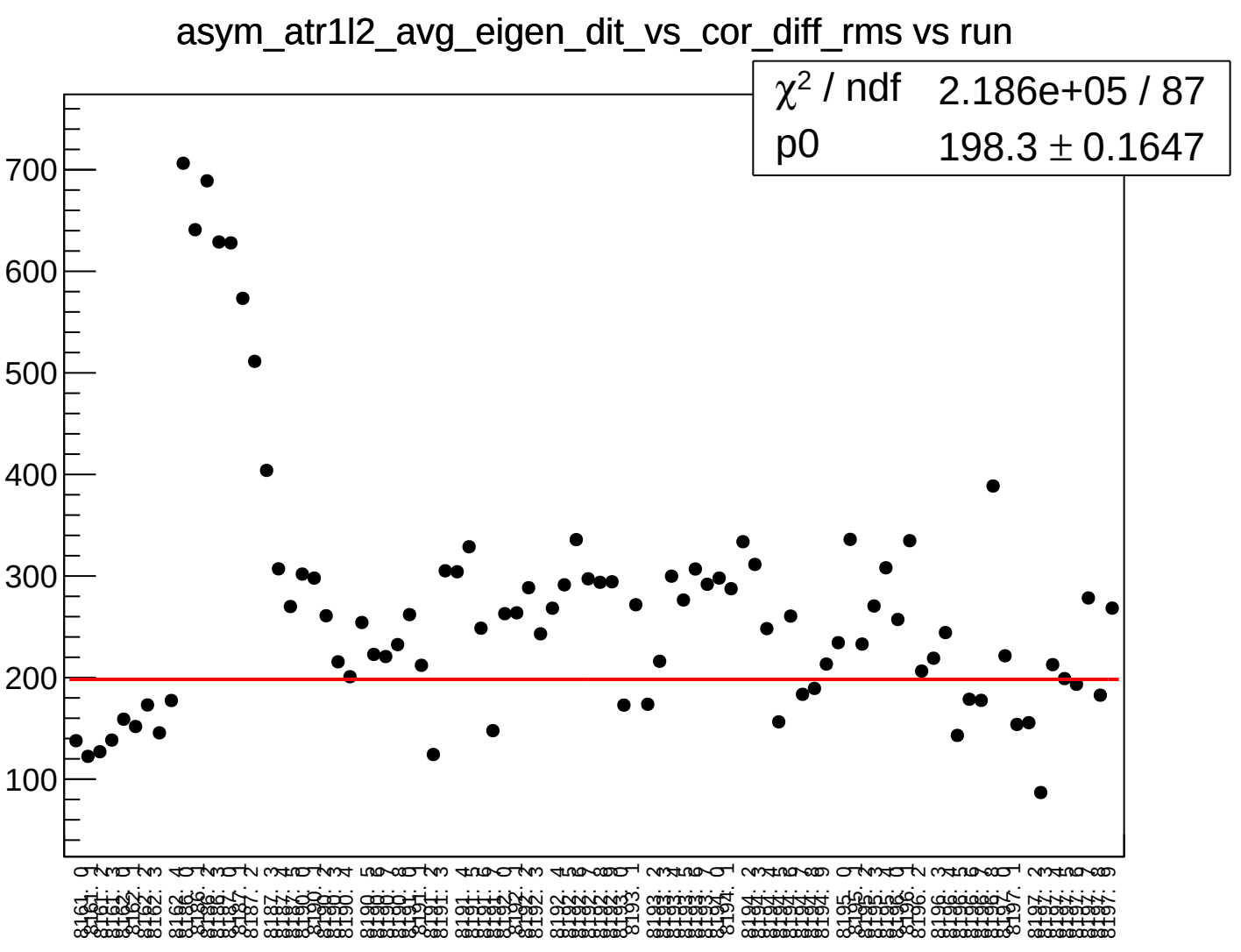

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.187e+05 / 87
p0 198.3 ± 0.1647
700
600
500
400
300
200
100

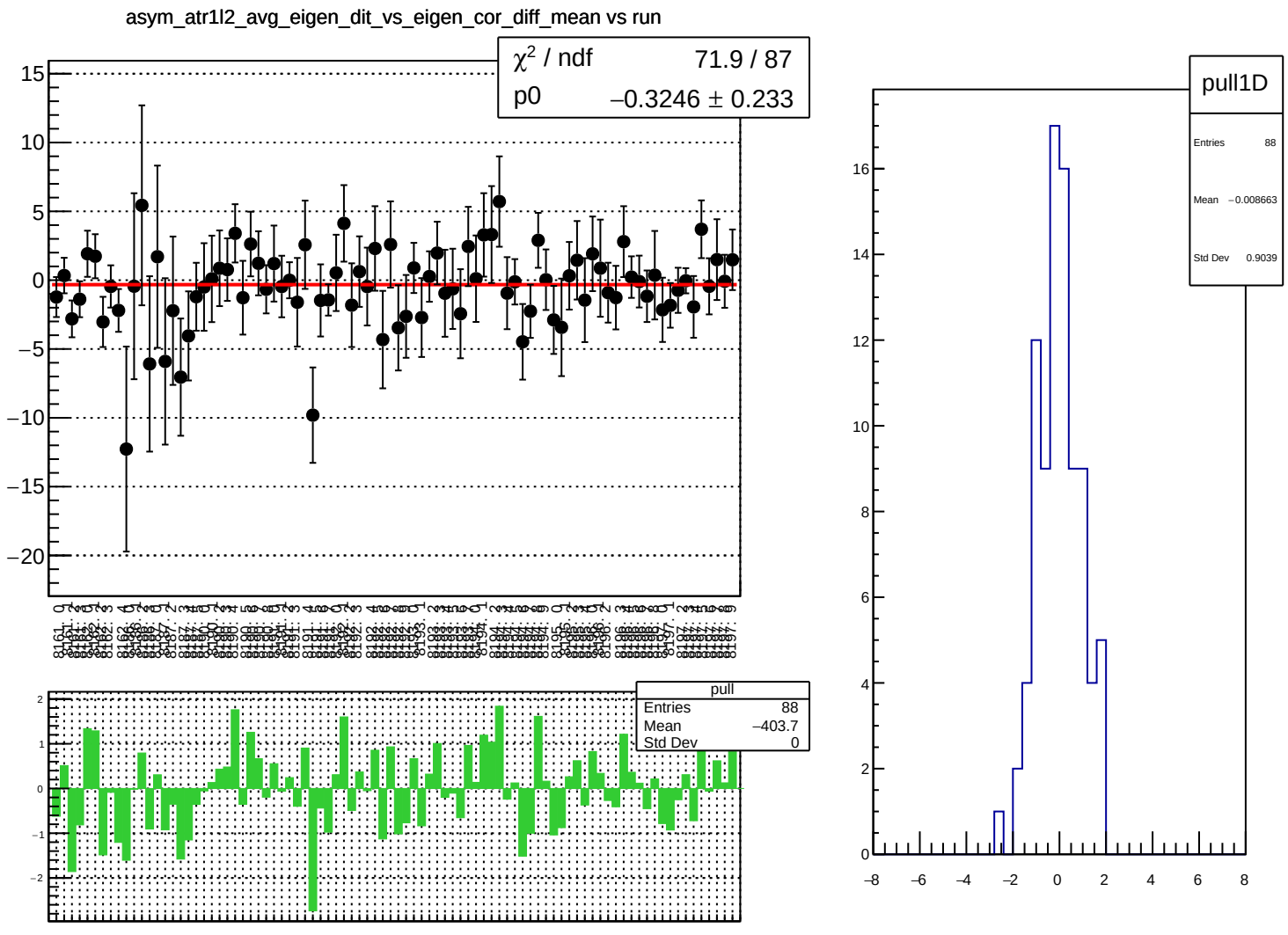

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.2 / 87
p0 −1.062e−05 ± 1.249e−05
pull
Entries 88
Mean 41.72
Std Dev 21.77

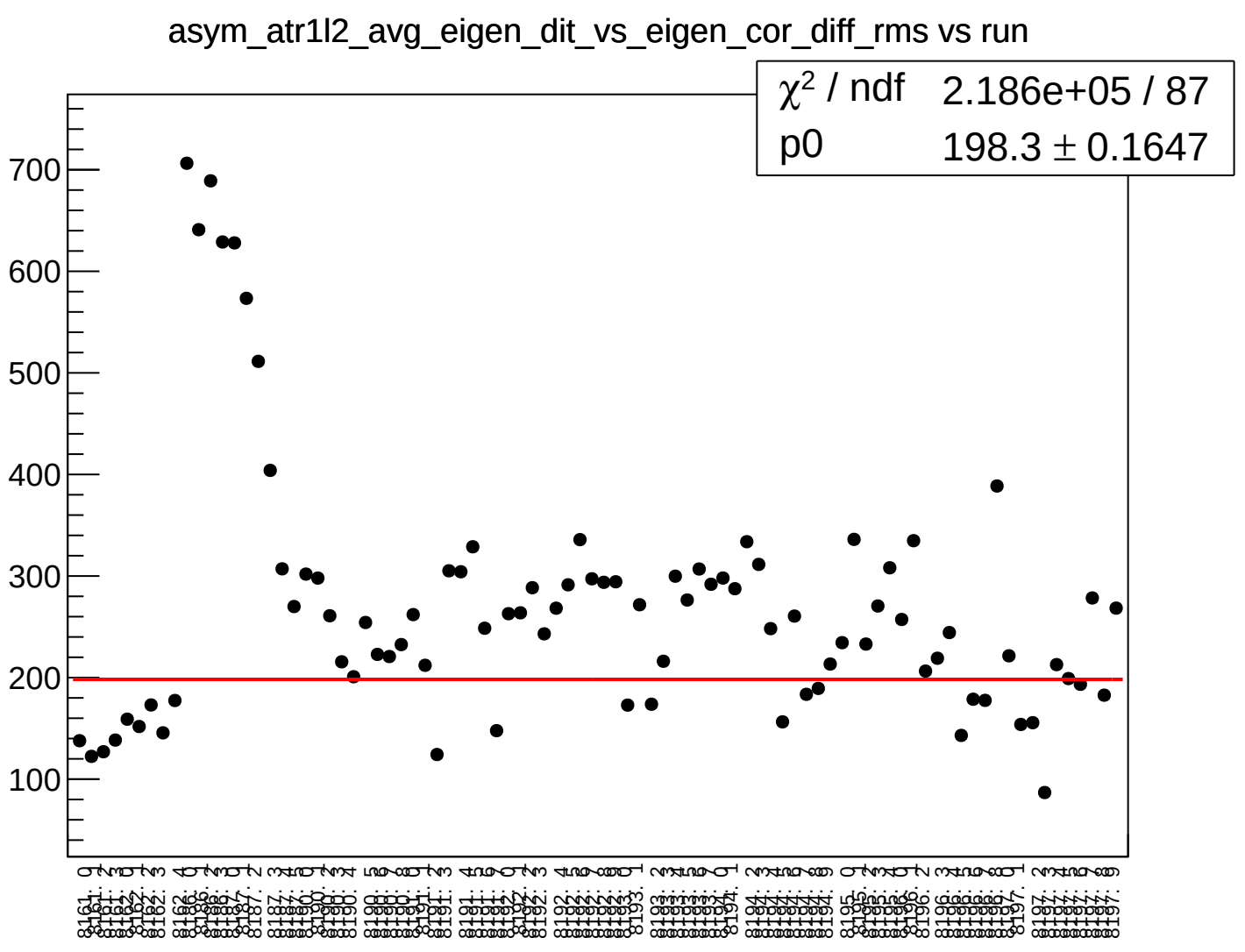

pull1D
Entries 88
Mean 0.1735
Std Dev 1.003

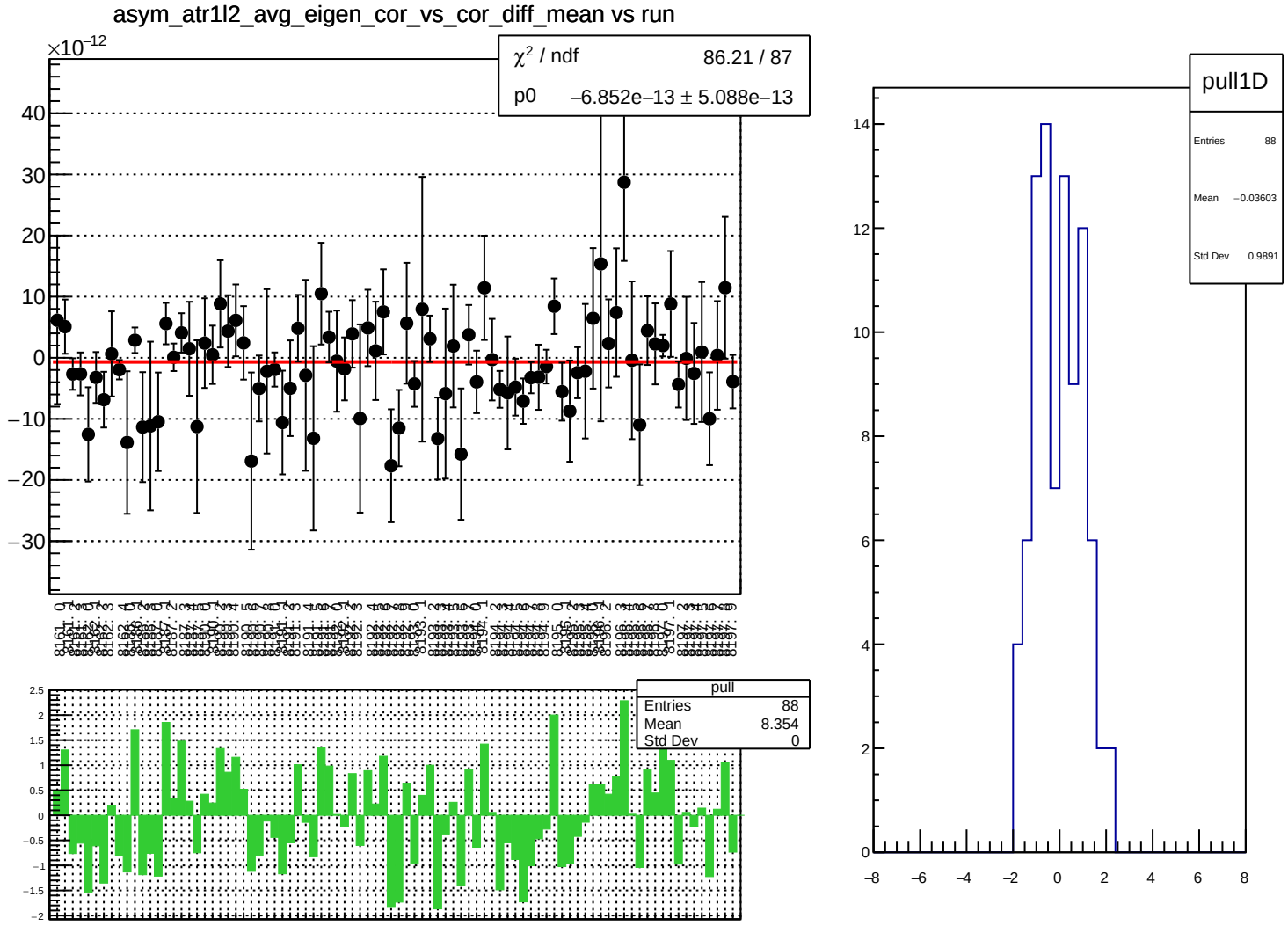

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.767e+05 / 87
p0 0.008335 ± 8.834e−06
0.025
0.02
0.015
0.01
0.005

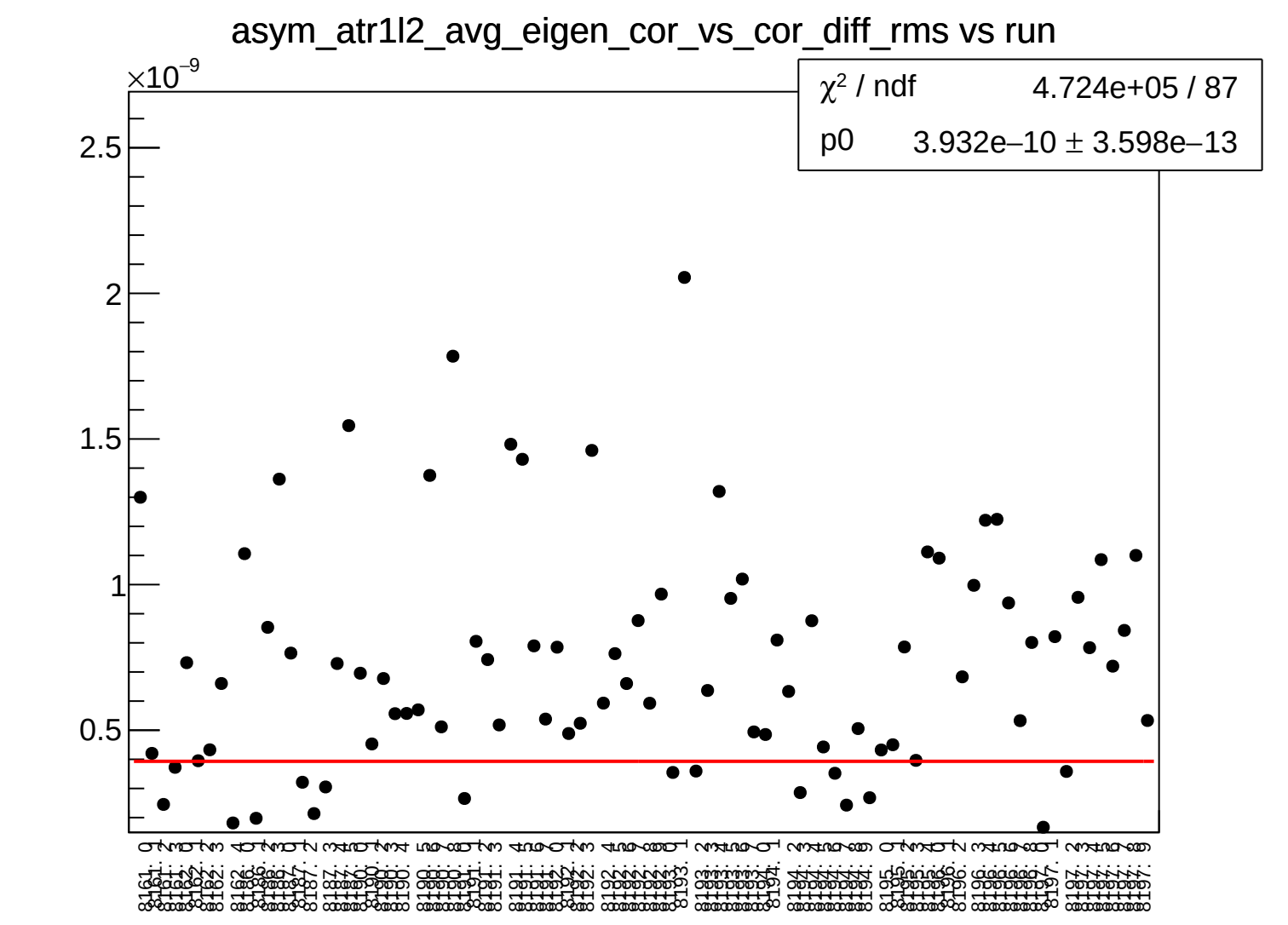

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.9 / 87
p0 −0.3246 ± 0.233
pull
Entries 88
Mean −403.7
Std Dev 0
pull1D
Entries 88
Mean −0.008663
Std Dev 0.9039

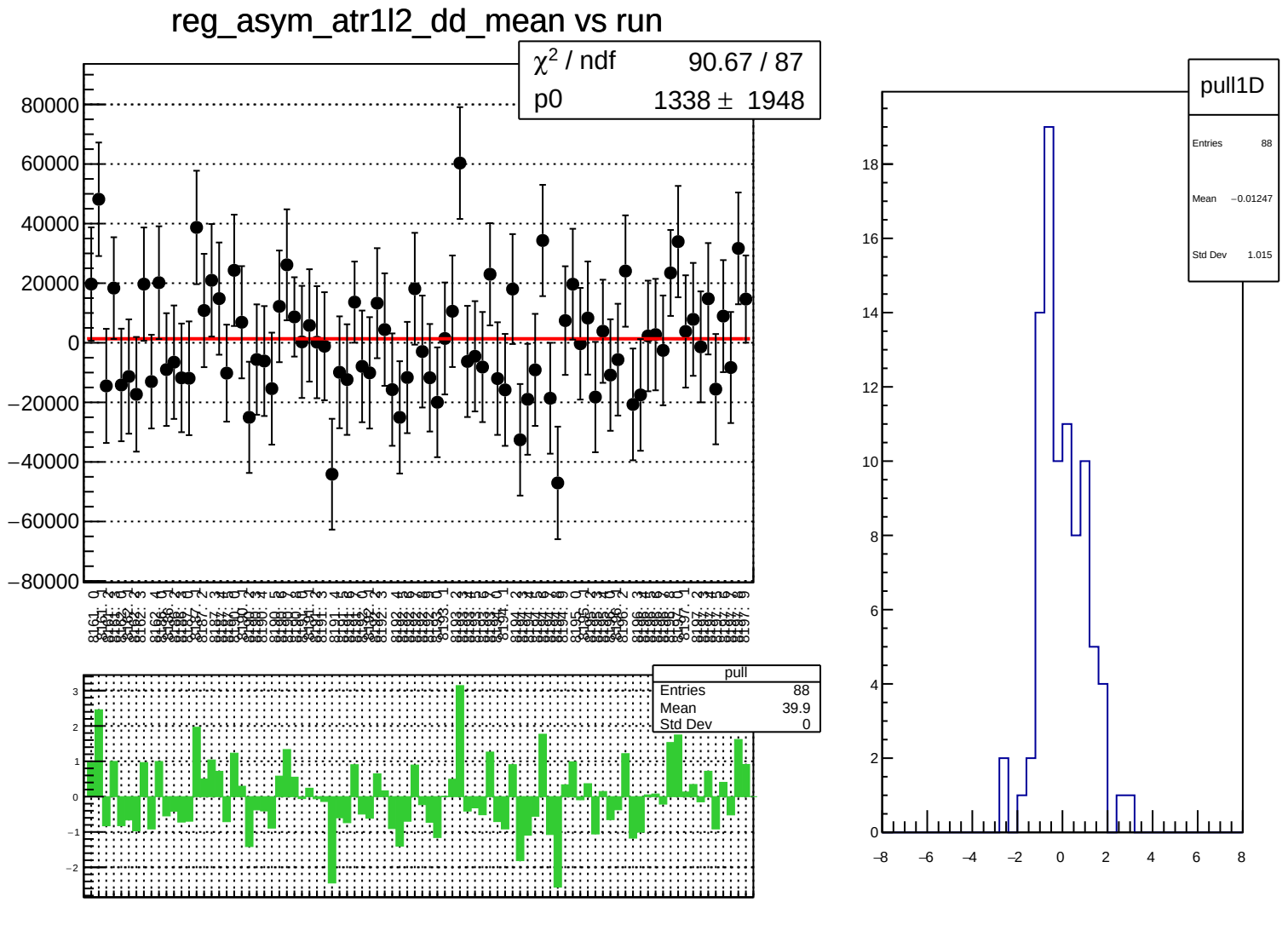

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.186e+05 / 87
p0 198.3 ± 0.1647
700
600
500
400
300
200
100


asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.9 / 87
p0 −0.3246 ± 0.233
pull
Entries 88
Mean −403.7
Std Dev 0
pull1D
Entries 88
Mean −0.008663
Std Dev 0.9039

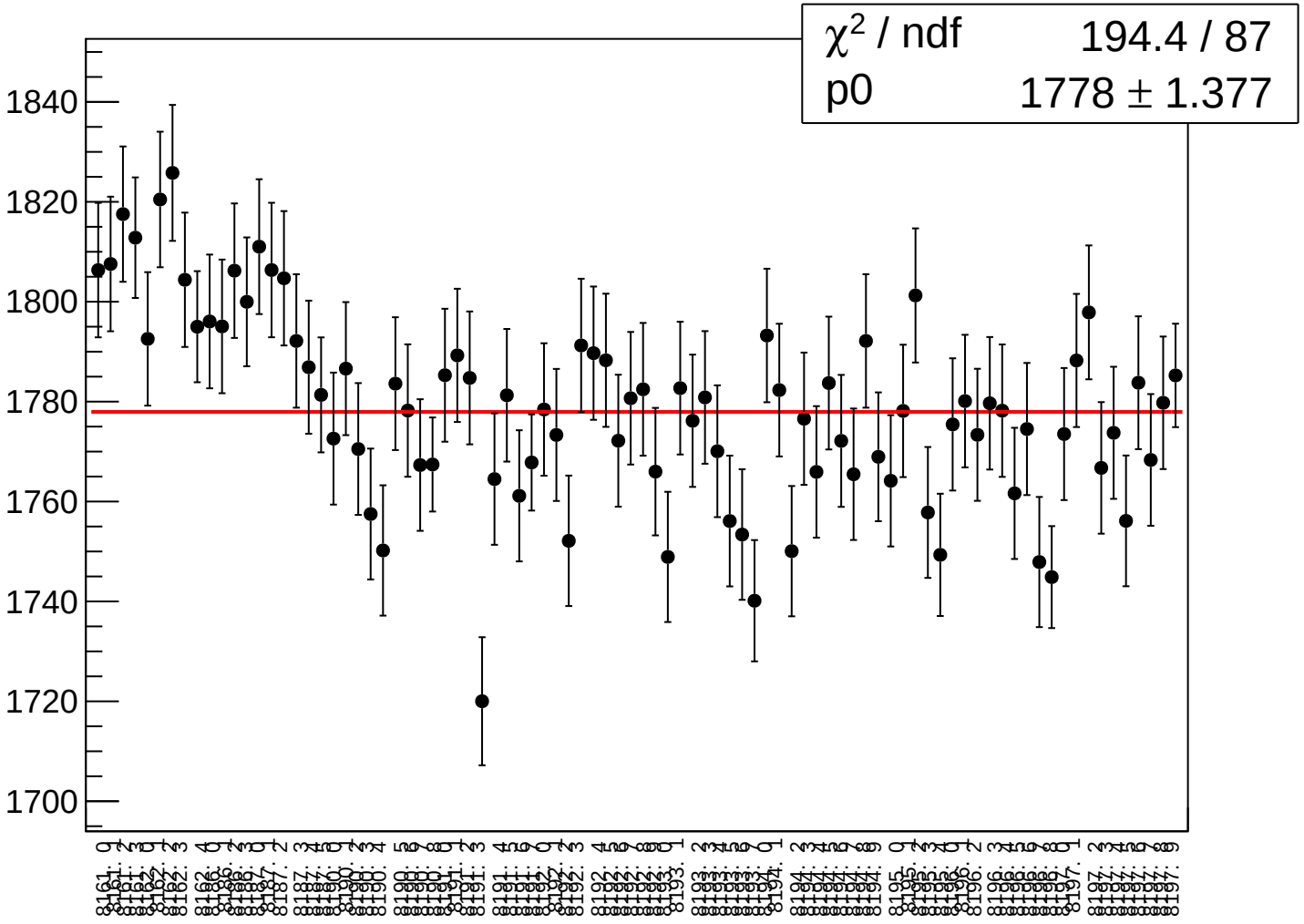

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.186e+05 / 87
p0 198.3 ± 0.1647
700
600
500
400
300
200
100

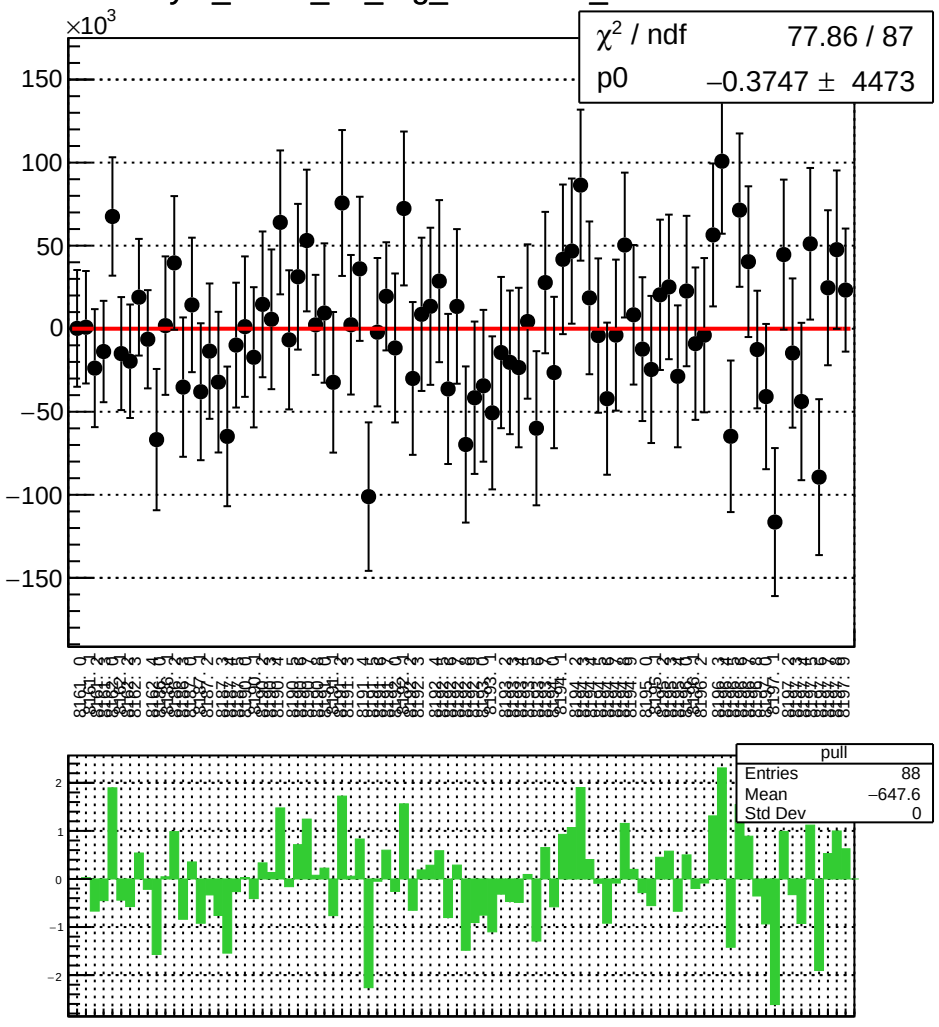

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 86.21 / 87
p0 −6.852e−13 ± 5.088e−13
pull
Entries 88
Mean 8.354
Std Dev 0
pull1D
Entries 88
Mean −0.03603
Std Dev 0.9891

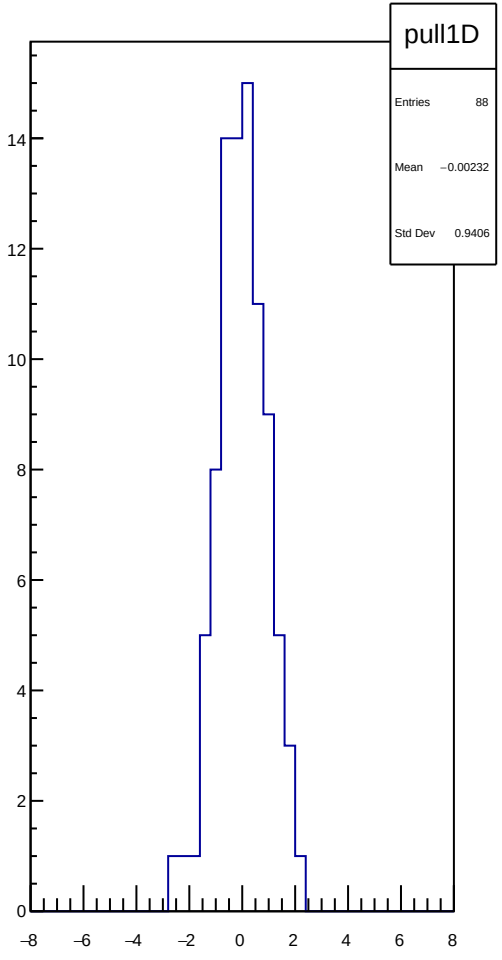

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.724e+05 / 87
p0 3.932e−10 ± 3.598e−13
2.5
2
1.5
1
0.5

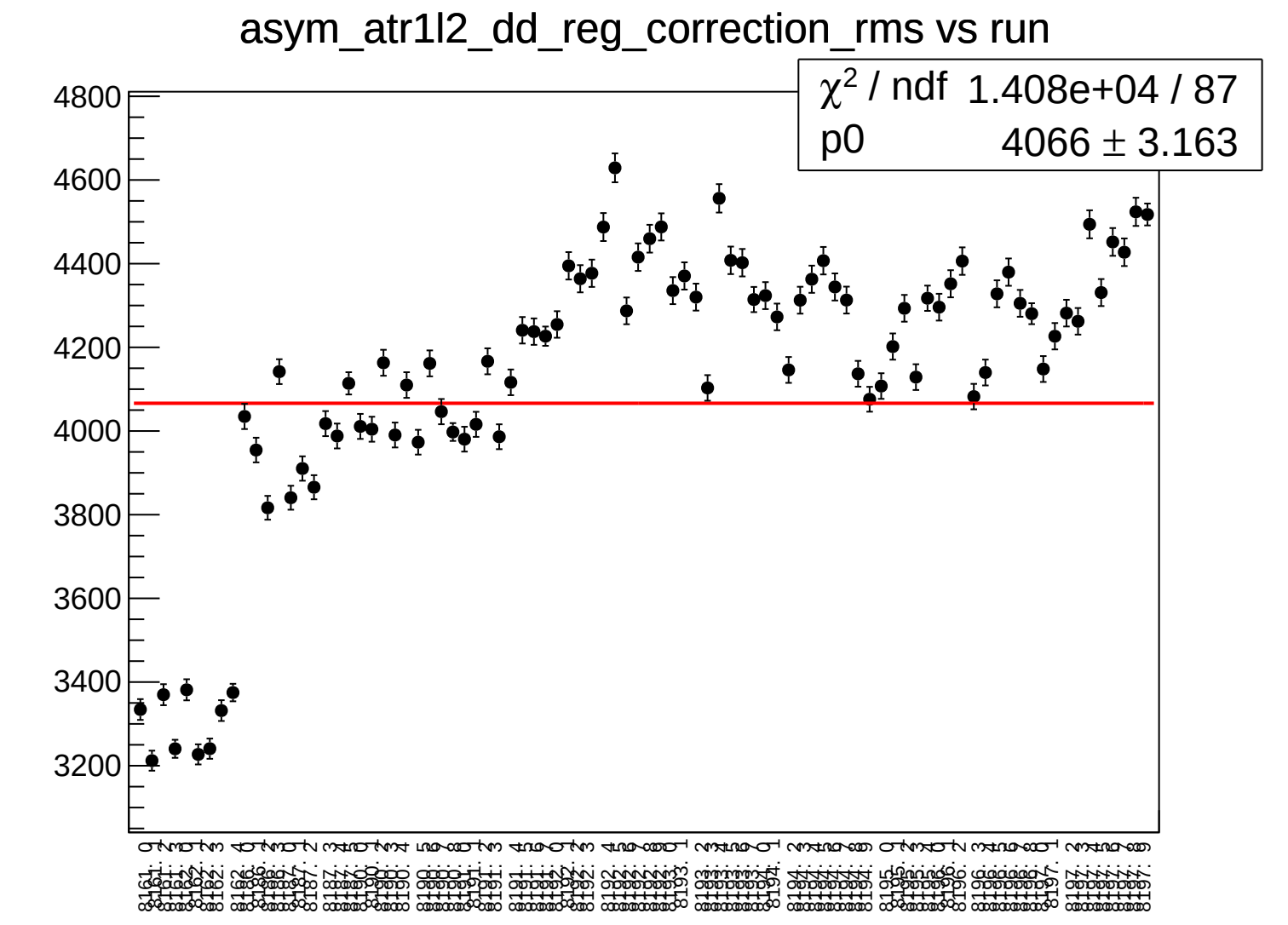

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 90.67 / 87
p0 1338 ± 1948
pull
Entries 88
Mean 39.9
Std Dev 0
pull1D
Entries 88
Mean −0.01247
Std Dev 1.015

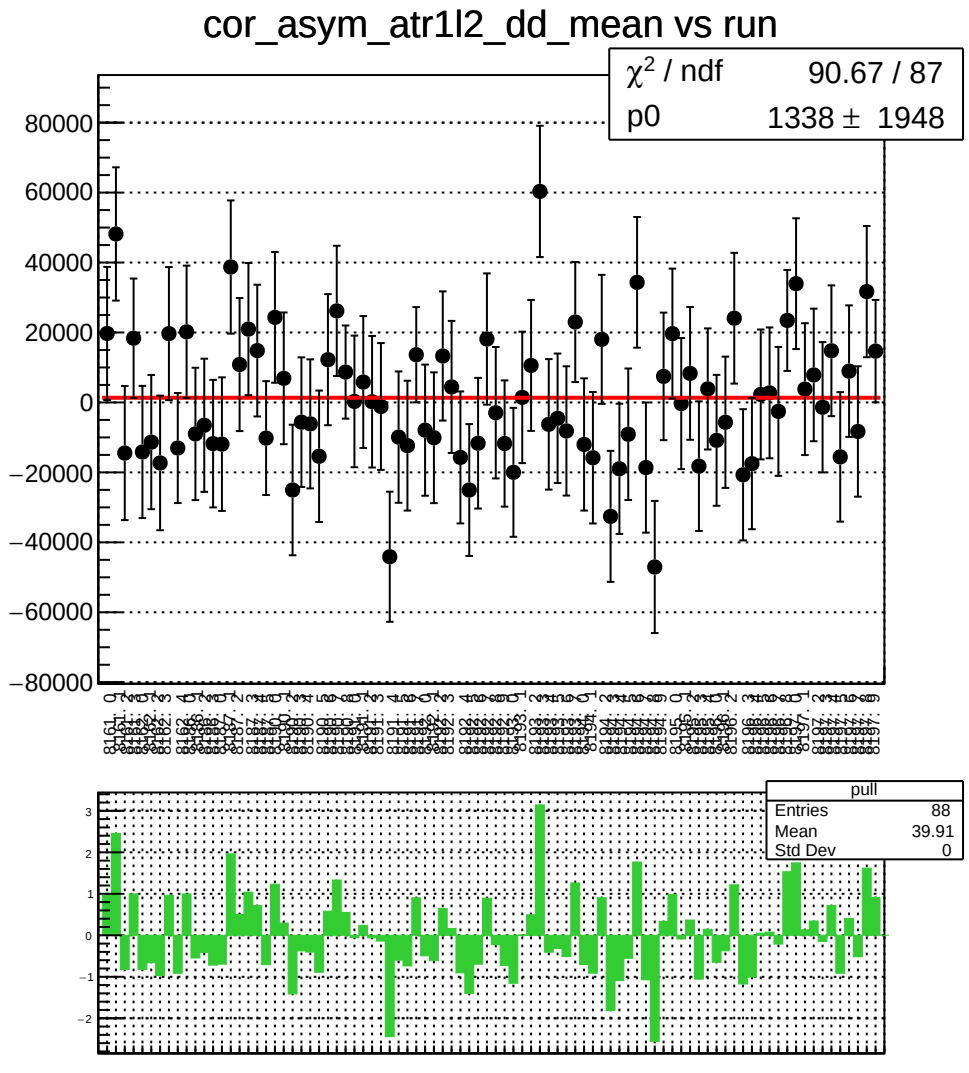
reg_asym_atr1l2_dd_rms vs run

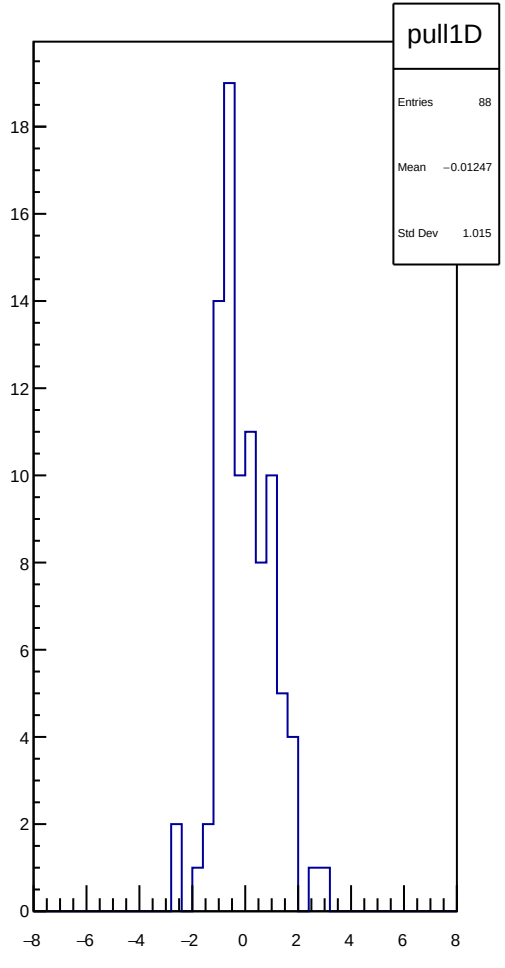


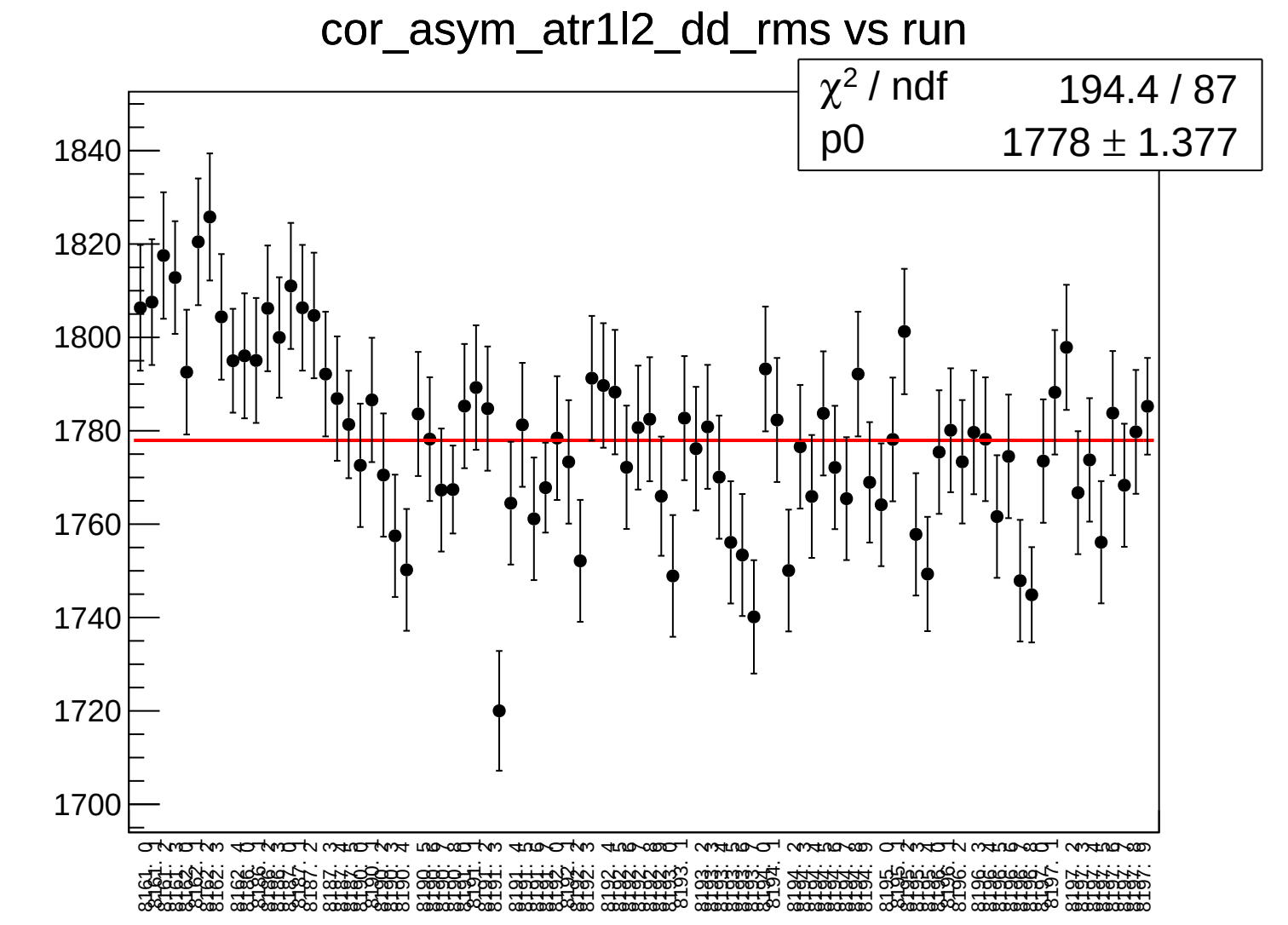

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 77.86 / 87
p0 −0.3747 ± 4473
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −647.6
Std Dev 0
2
1
0
−1
−2

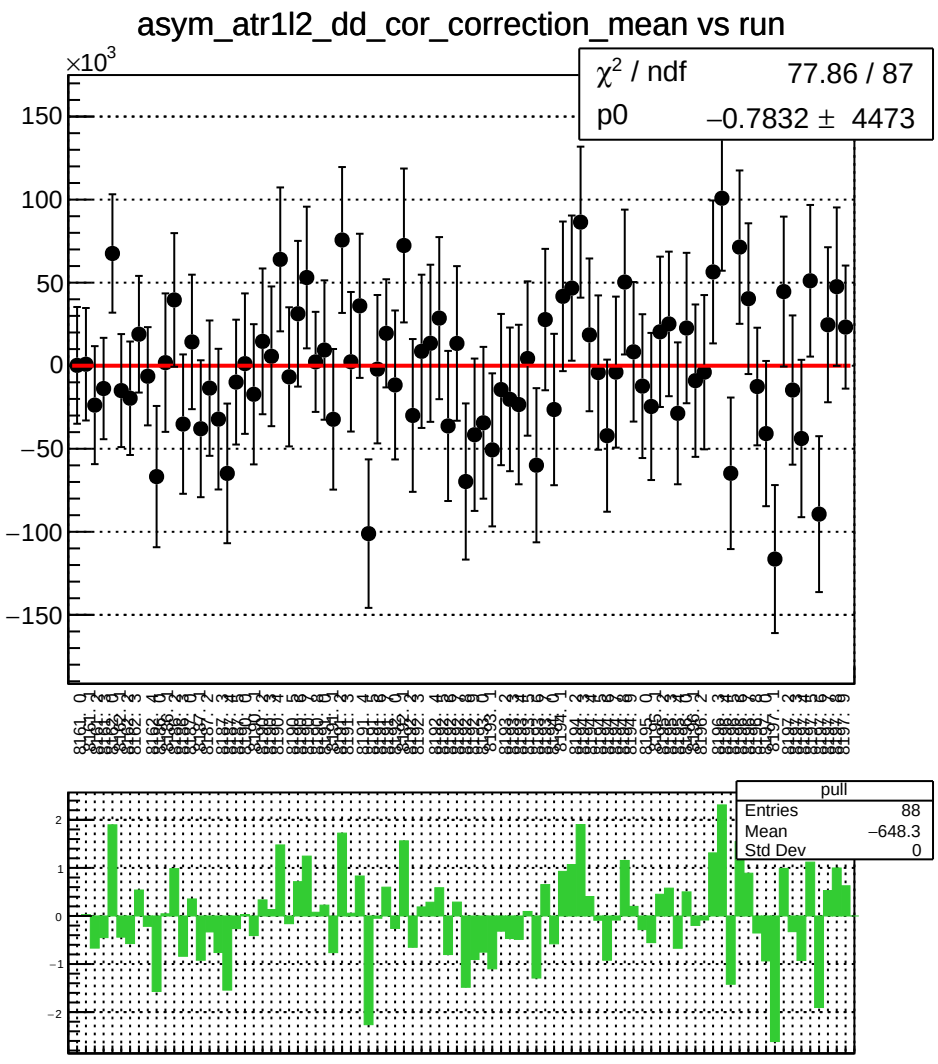

pull1D
Entries 88
Mean −0.00232
Std Dev 0.9406
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

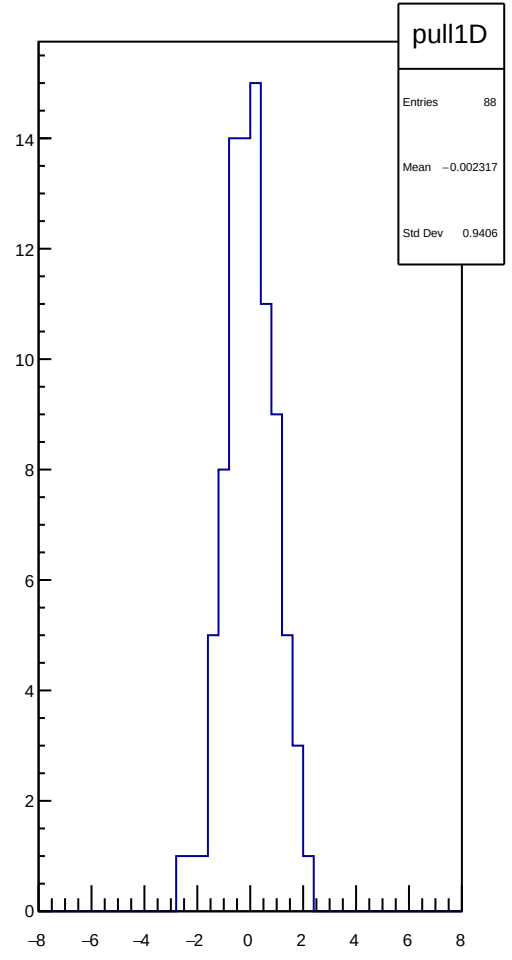

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.408e+04 / 87
p0 4066 ± 3.163
4800
4600
4400
4200
4000
3800
3600
3400
3200

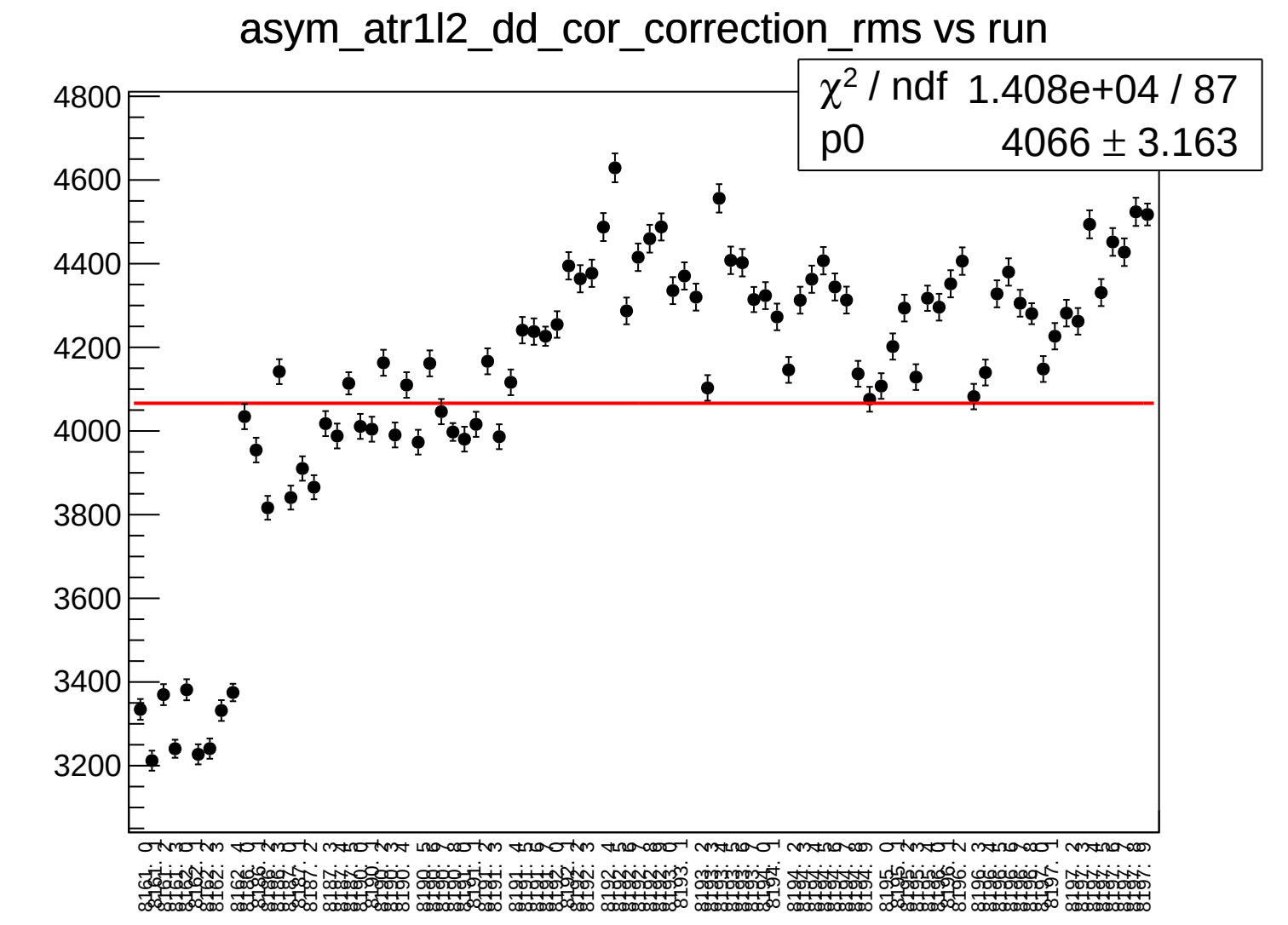

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 90.67 / 87
p0 1338 ± 1948
pull
Entries 88
Mean 39.91
Std Dev 0

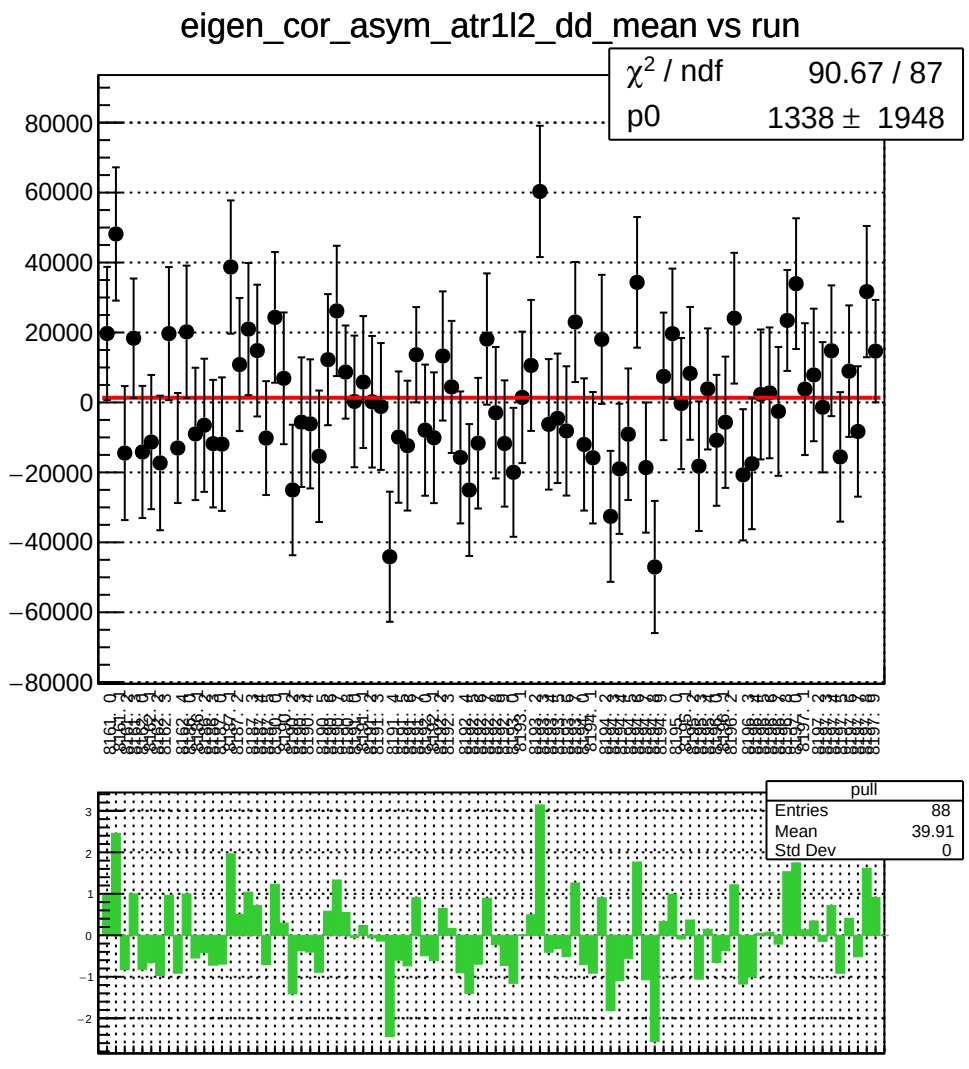

pull1D
Entries 88
Mean −0.01247
Std Dev 1.015

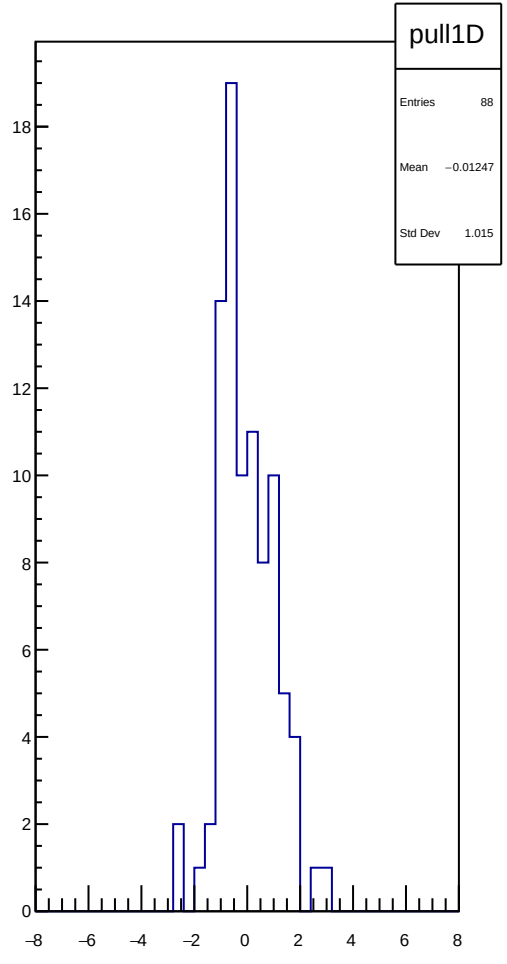

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 194.4 / 87
p0 1778 ± 1.377
1840
1820
1800
1780
1760
1740
1720
1700

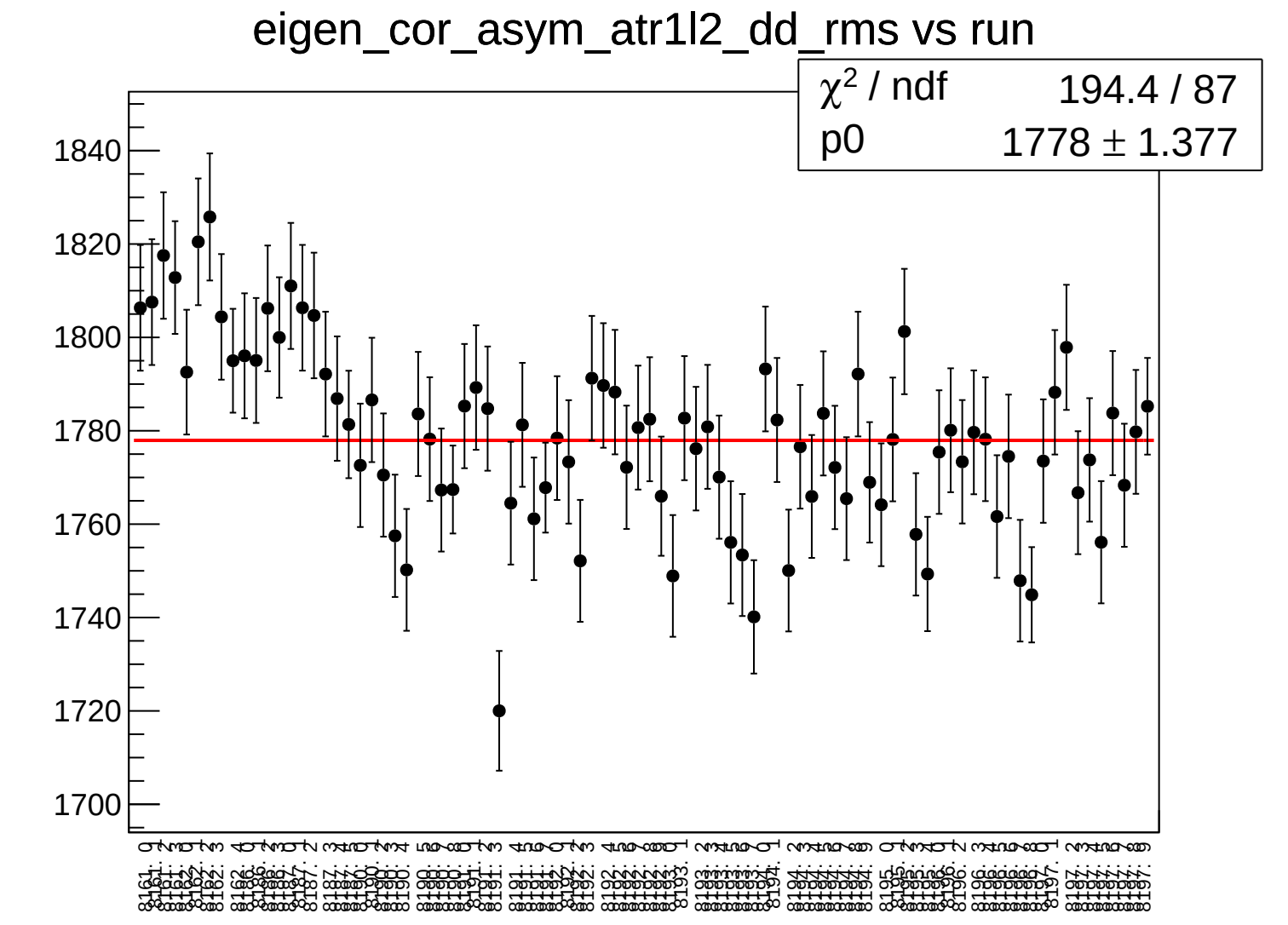

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 77.86 / 87
p0 −0.7832 ± 4473
pull
Entries 88
Mean −648.3
Std Dev 0

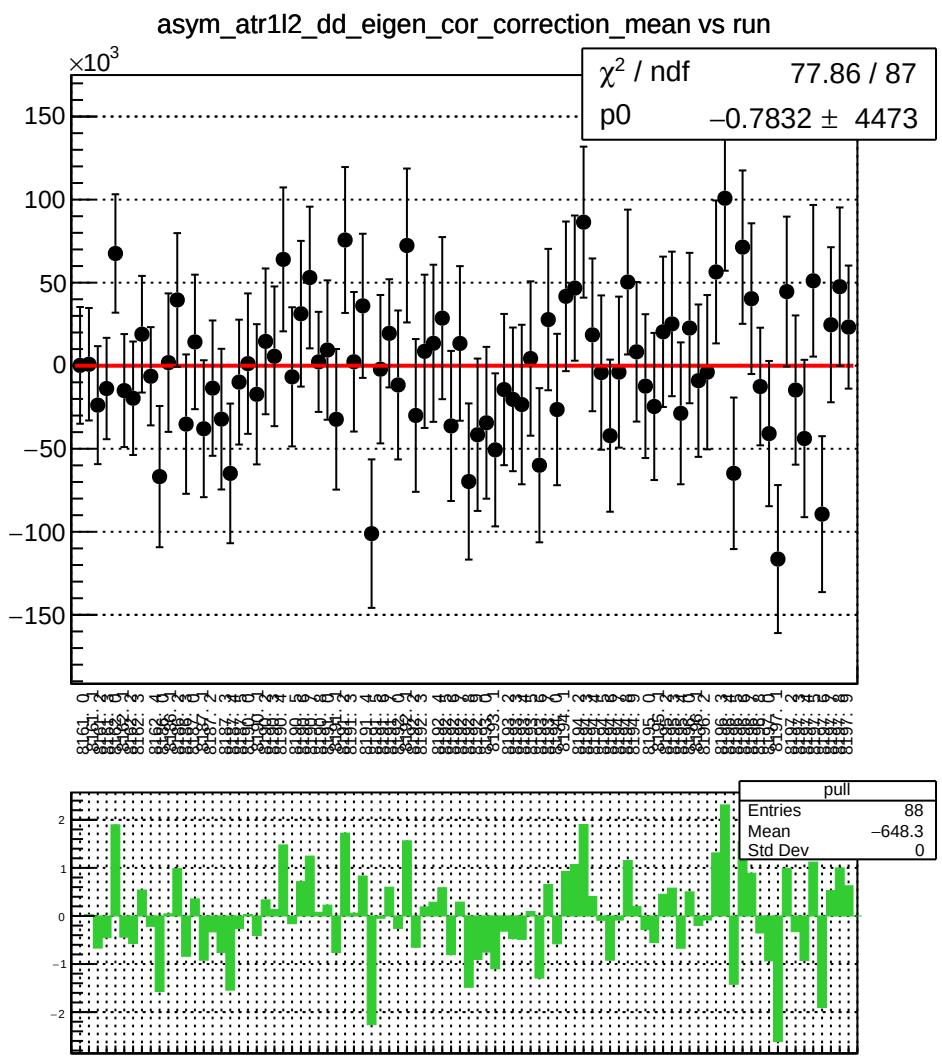

pull1D
Entries 88
Mean −0.002317
Std Dev 0.9406

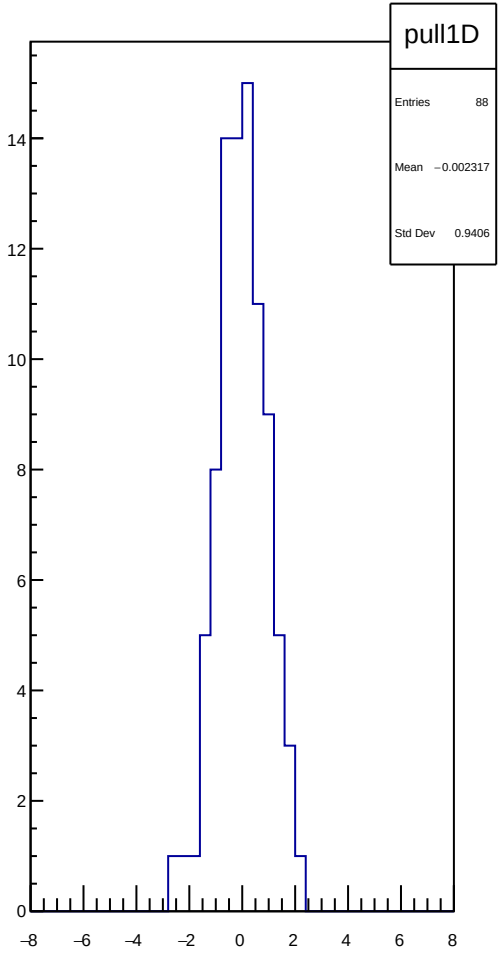

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.408e+04 / 87
p0 4066 ± 3.163
4800
4600
4400
4200
4000
3800
3600
3400
3200

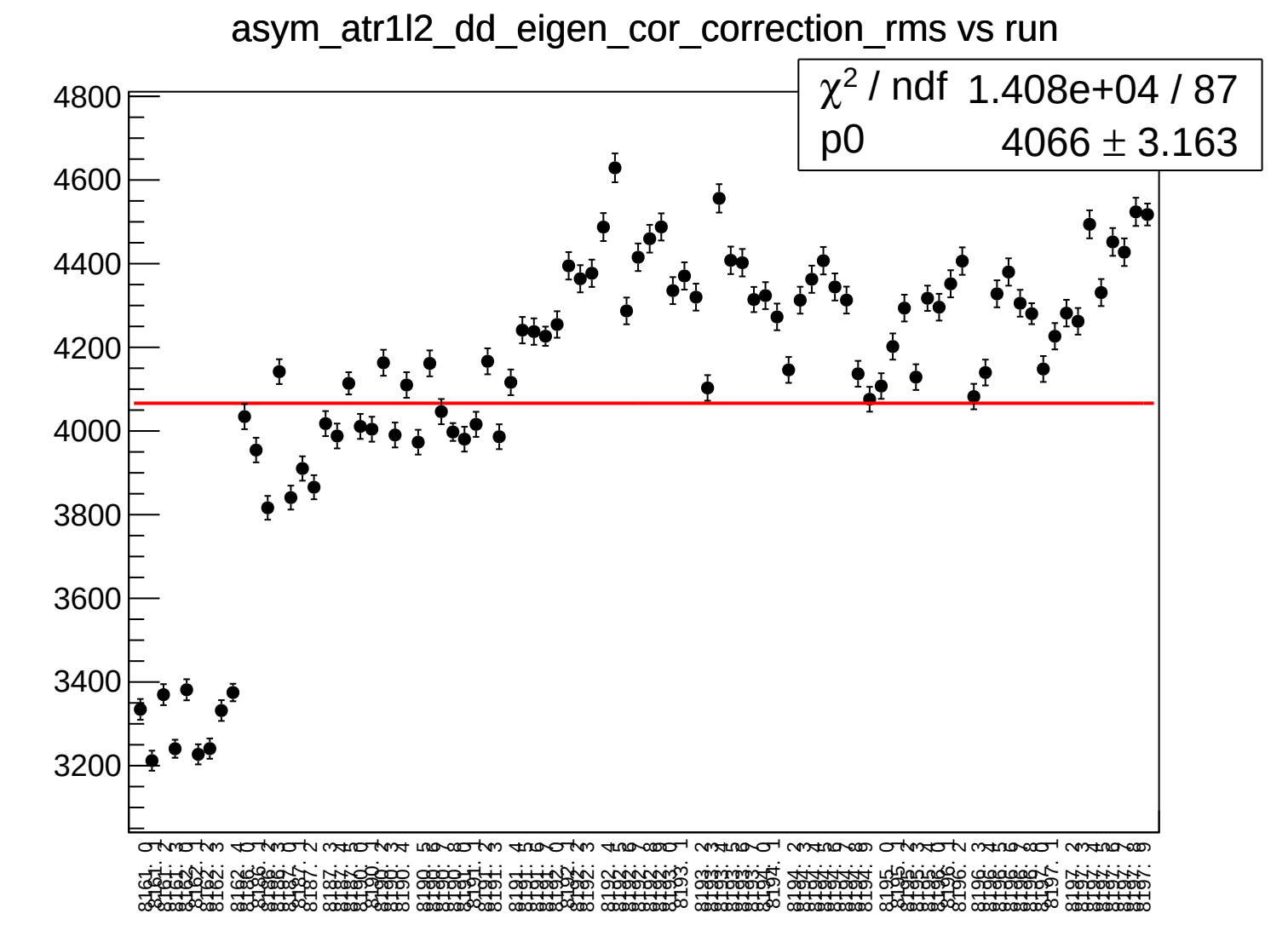

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 90.67 / 87
p0 1338 ± 1948
pull
Entries 88
Mean 39.91
Std Dev 0

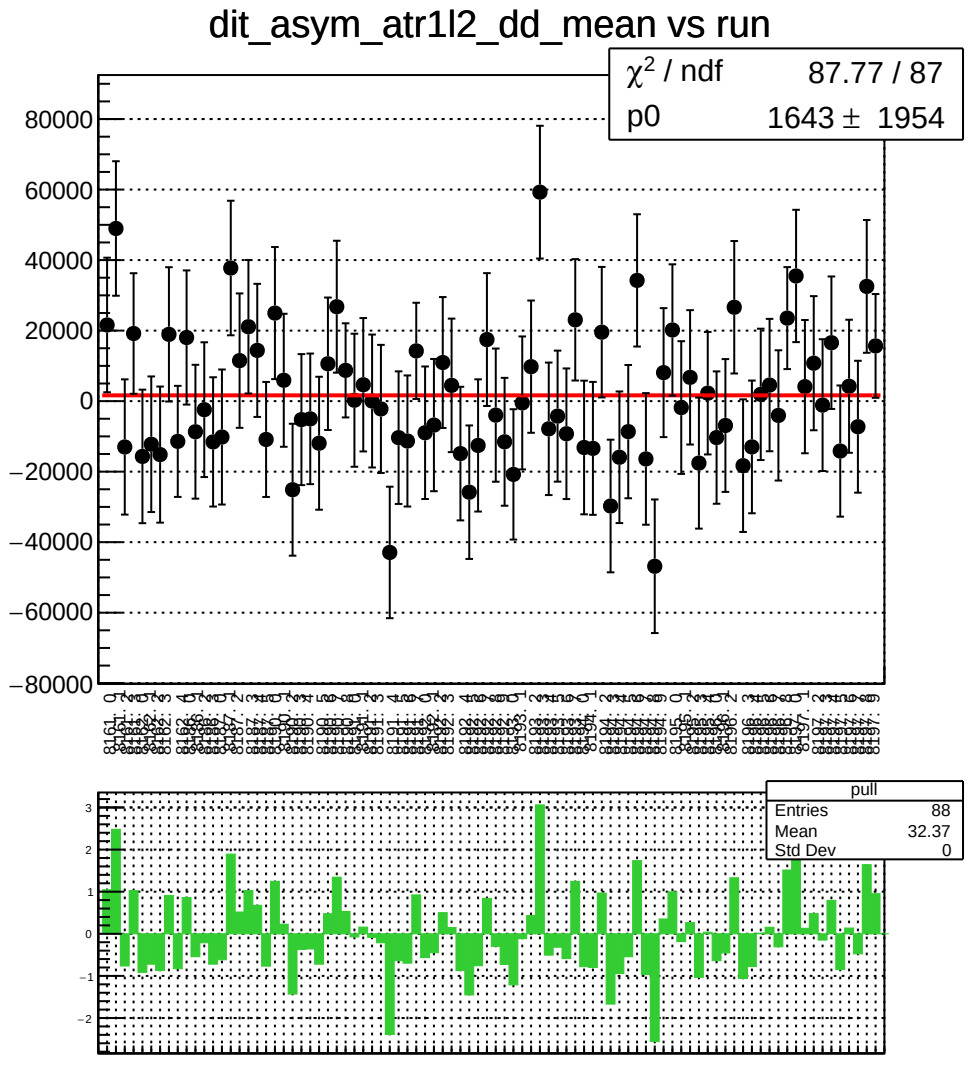

pull1D
Entries 88
Mean −0.01247
Std Dev 1.015

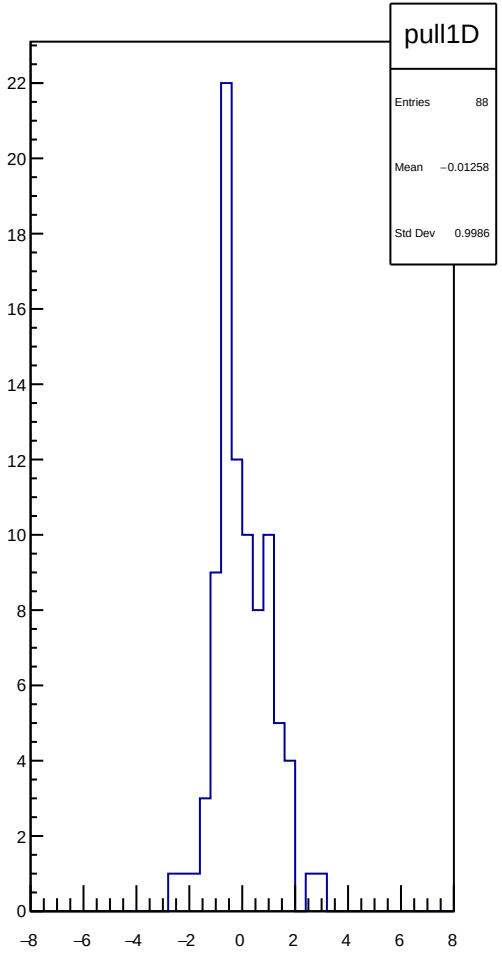

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 194.4 / 87
p0 1778 ± 1.377
1840
1820
1800
1780
1760
1740
1720
1700

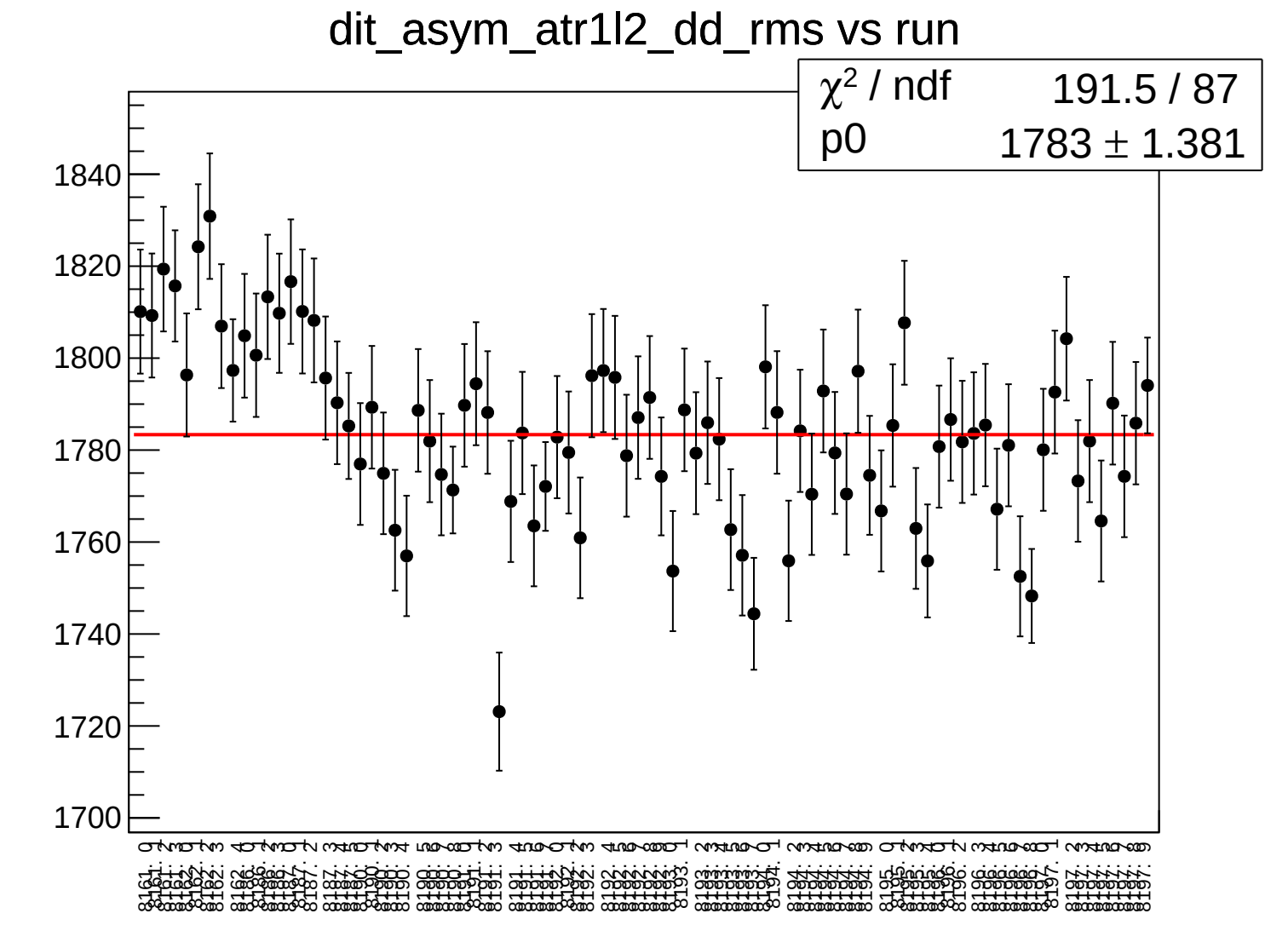

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.86 / 87
p0 −0.7832 ± 4473
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −648.3
Std Dev 0
2
1
0
−1
−2

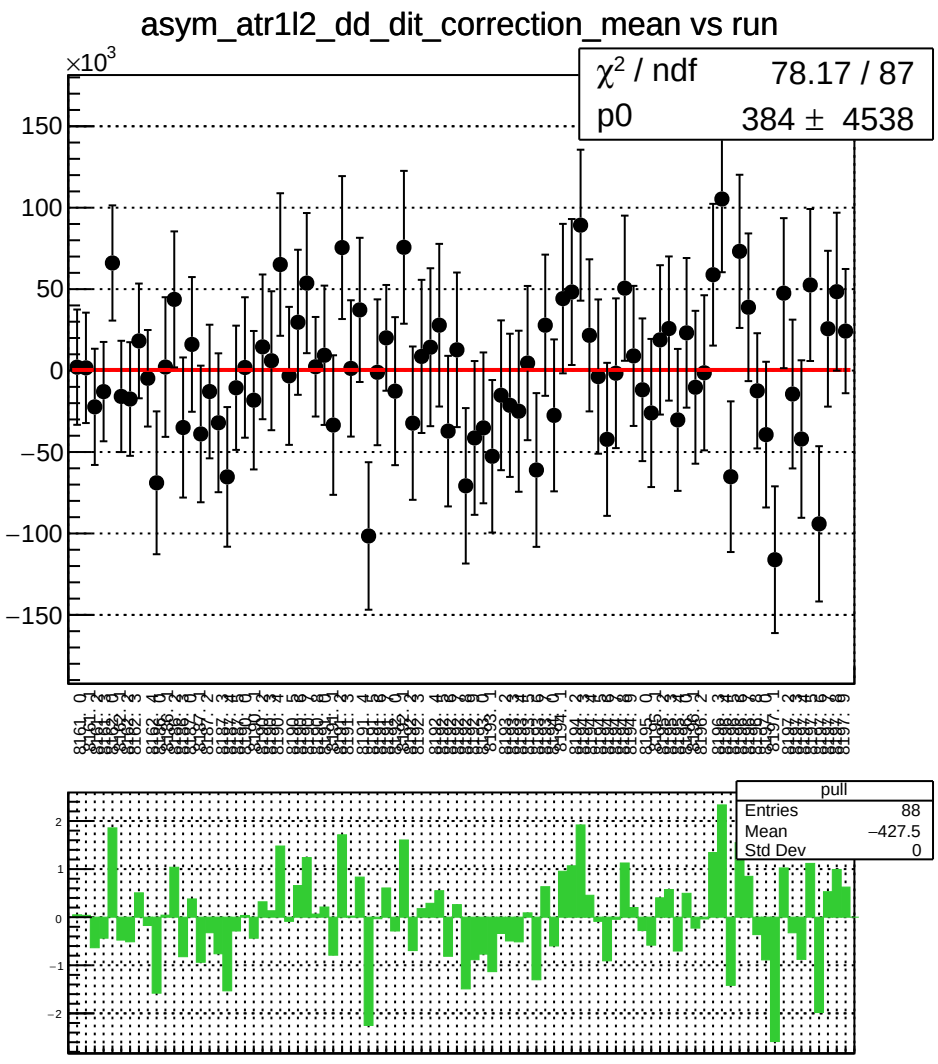

pull1D
Entries 88
Mean −0.002317
Std Dev 0.9406
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

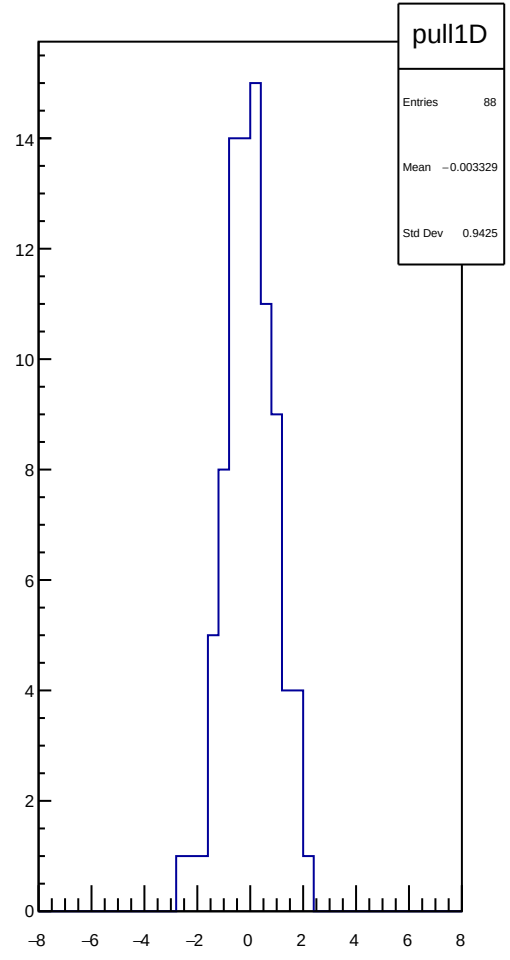

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.408e+04 / 87
p0 4066 ± 3.163
4800
4600
4400
4200
4000
3800
3600
3400
3200

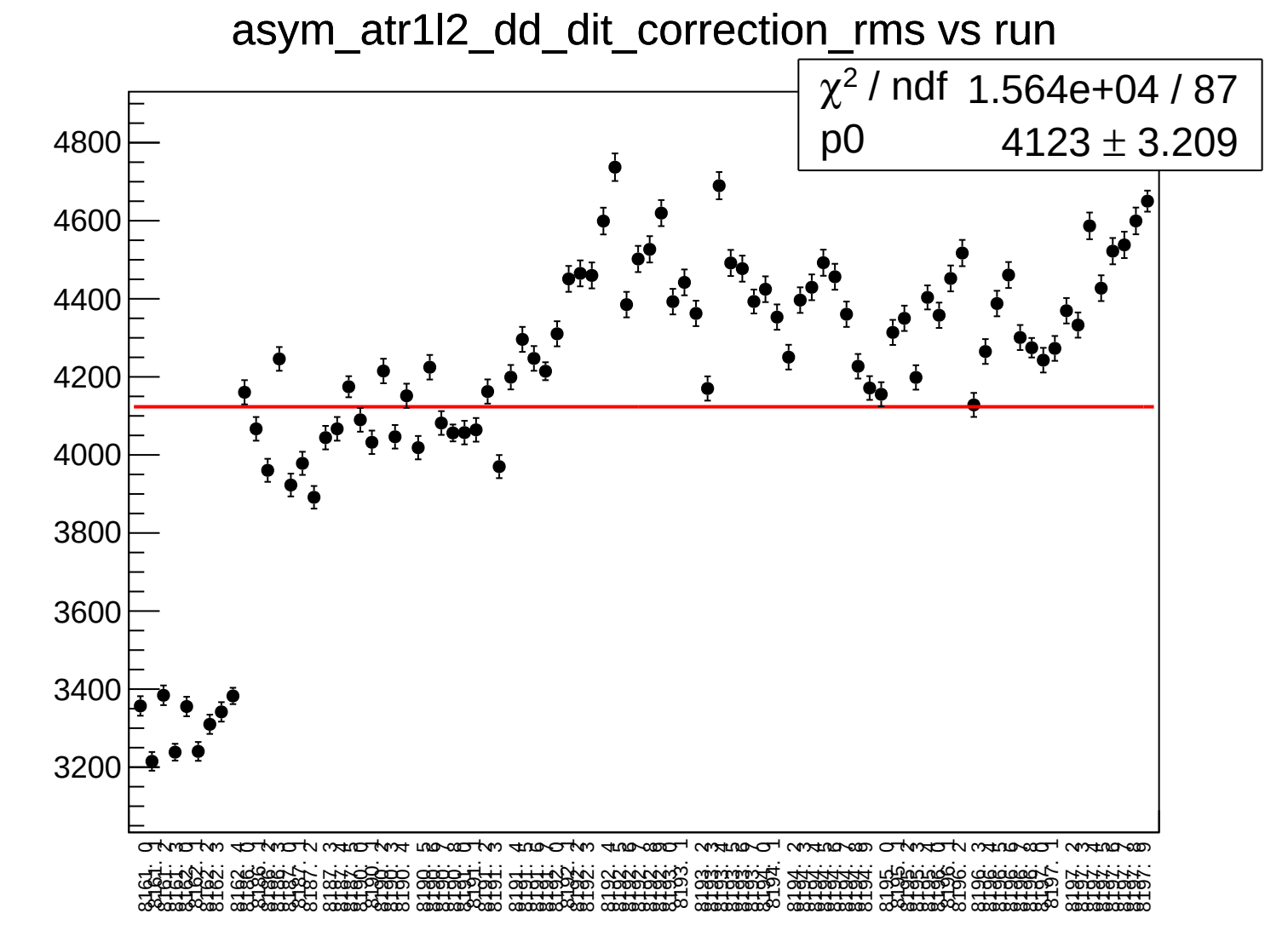

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 87.77 / 87
p0 1643 ± 1954
pull
Entries 88
Mean 32.37
Std Dev 0

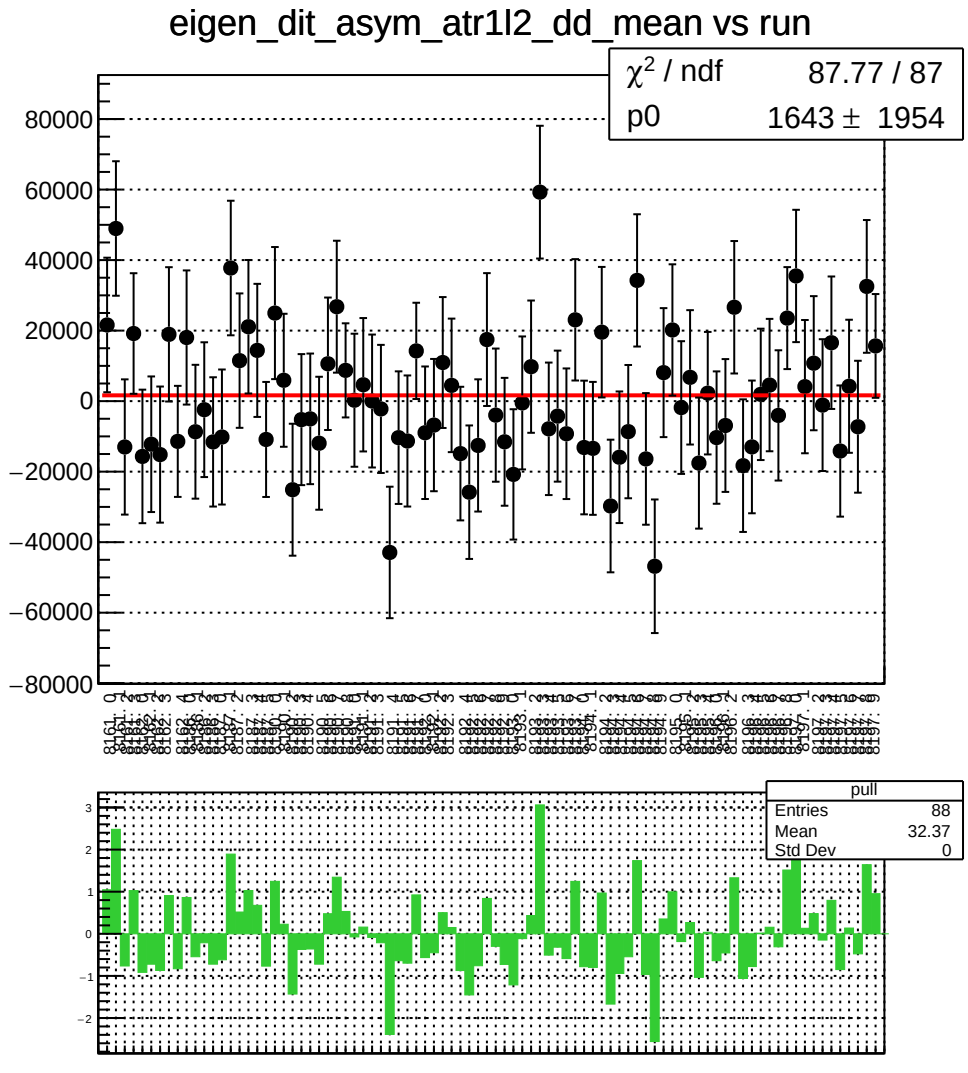

pull1D
Entries 88
Mean −0.01258
Std Dev 0.9986

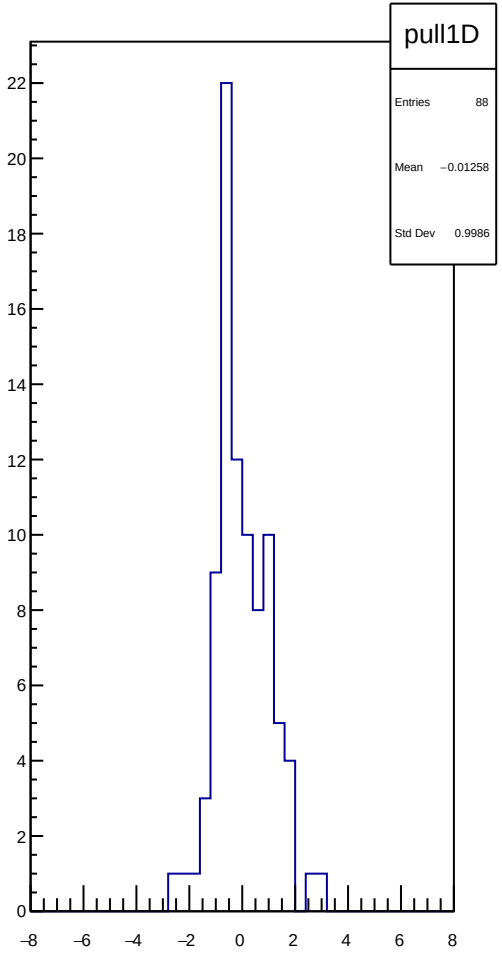

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 191.5 / 87
p0 1783 ± 1.381
1840
1820
1800
1780
1760
1740
1720
1700

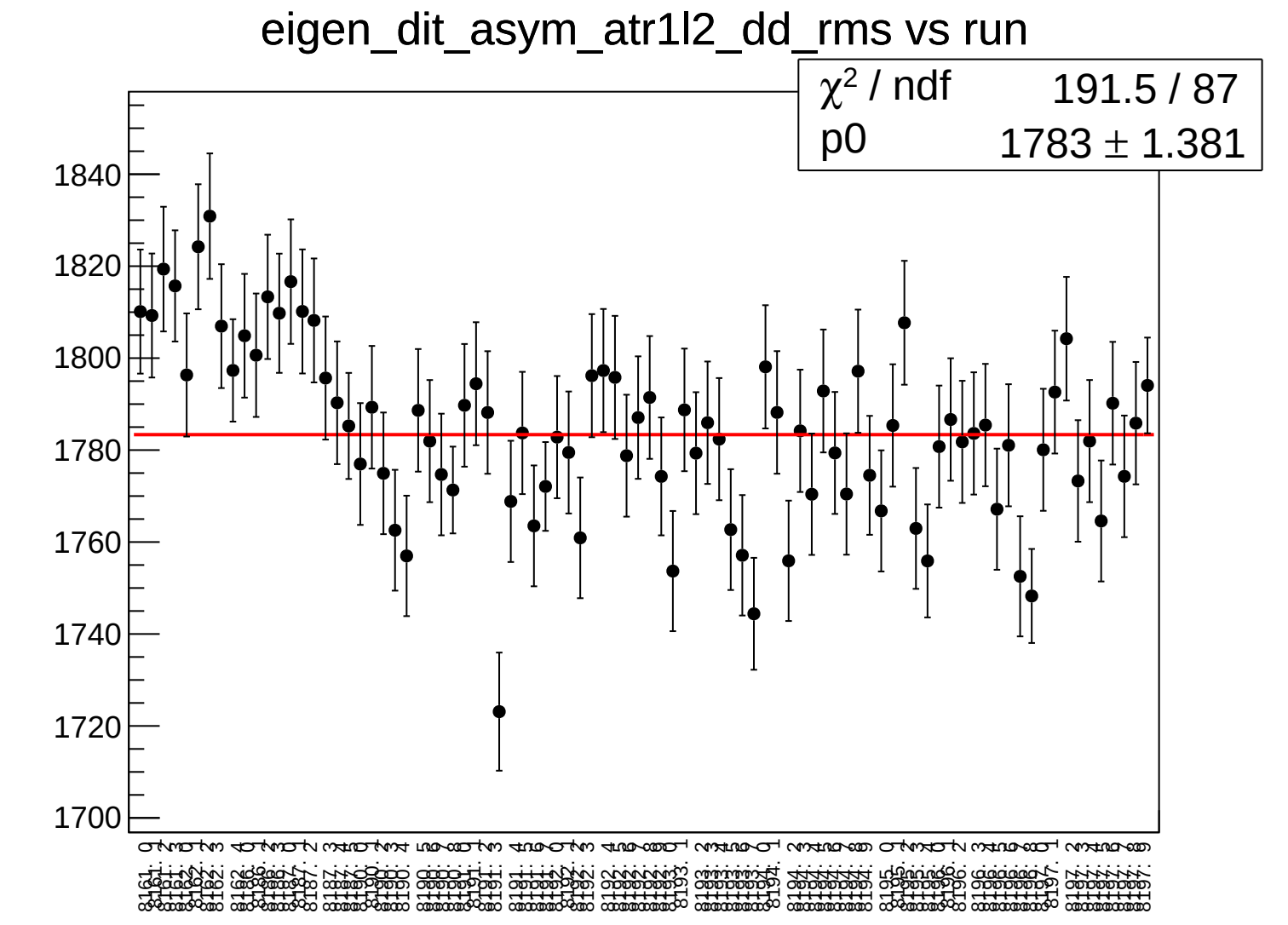

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 78.17 / 87
p0 384 ± 4538
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −427.5
Std Dev 0
2
1
0
−1
−2

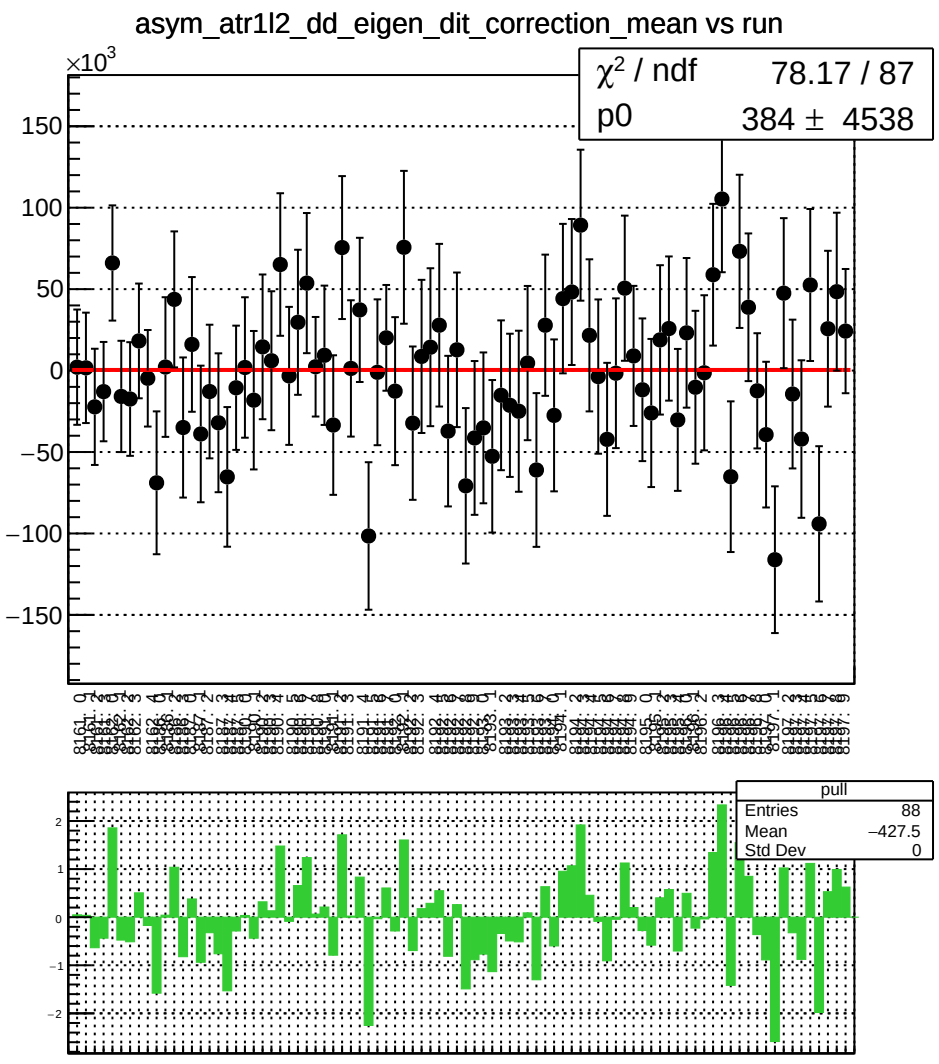

pull1D
Entries 88
Mean −0.003329
Std Dev 0.9425
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

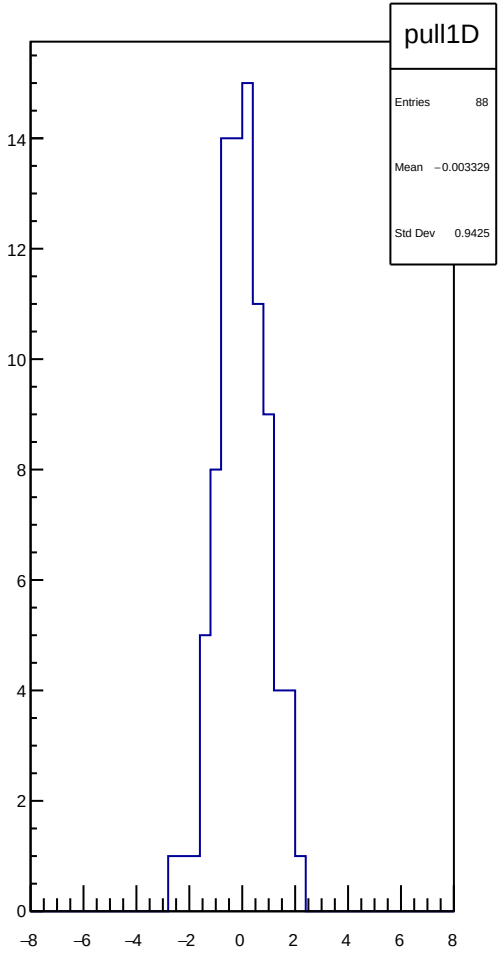

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.564e+04 / 87
p0 4123 ± 3.209
4800
4600
4400
4200
4000
3800
3600
3400
3200

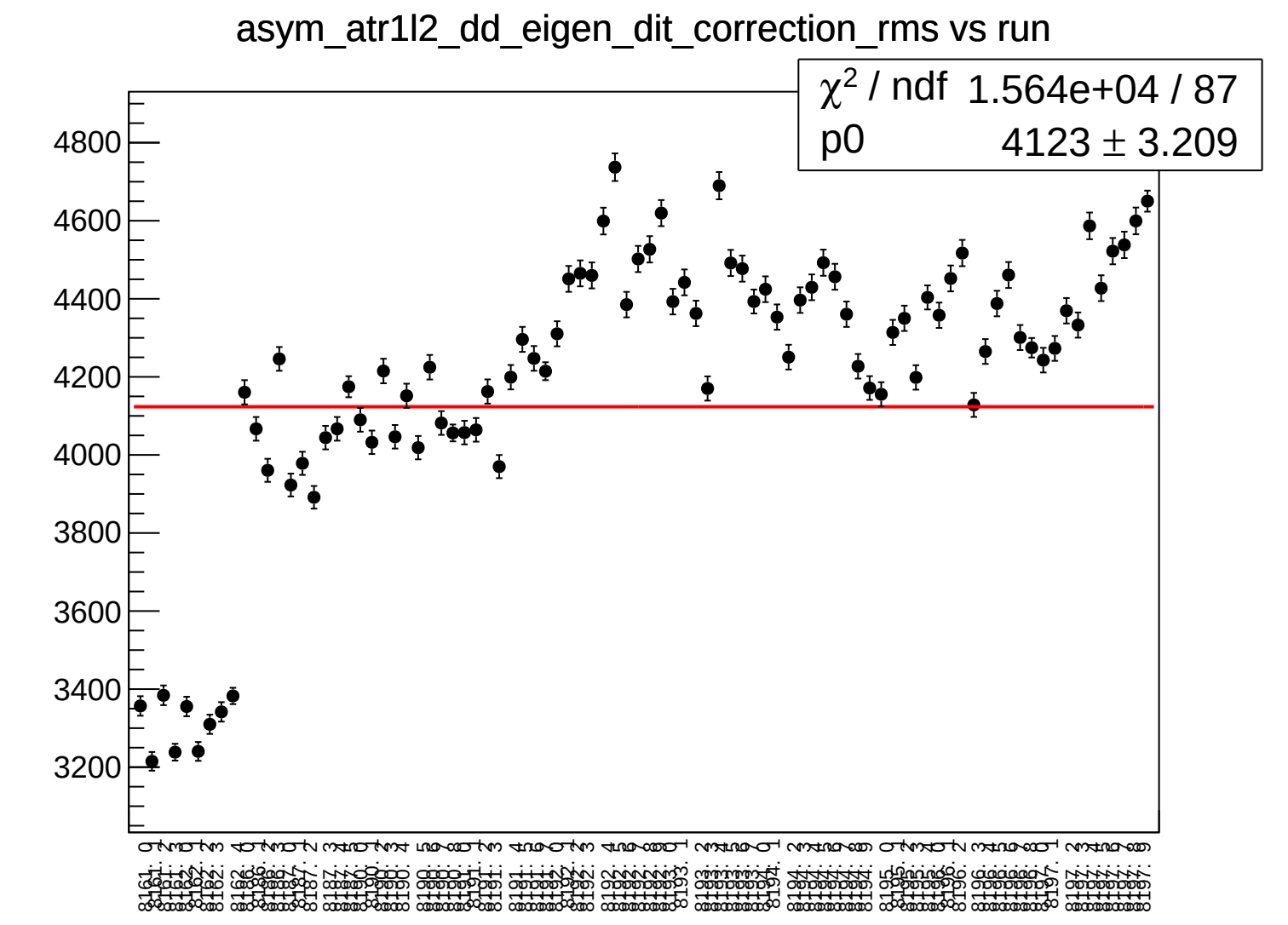

eigen_dit_asym_atr1l2_dd_mean vs run
χ^2 / ndf 87.77 / 87
p0 1643 ± 1954
pull
Entries 88
Mean 32.37
Std Dev 0

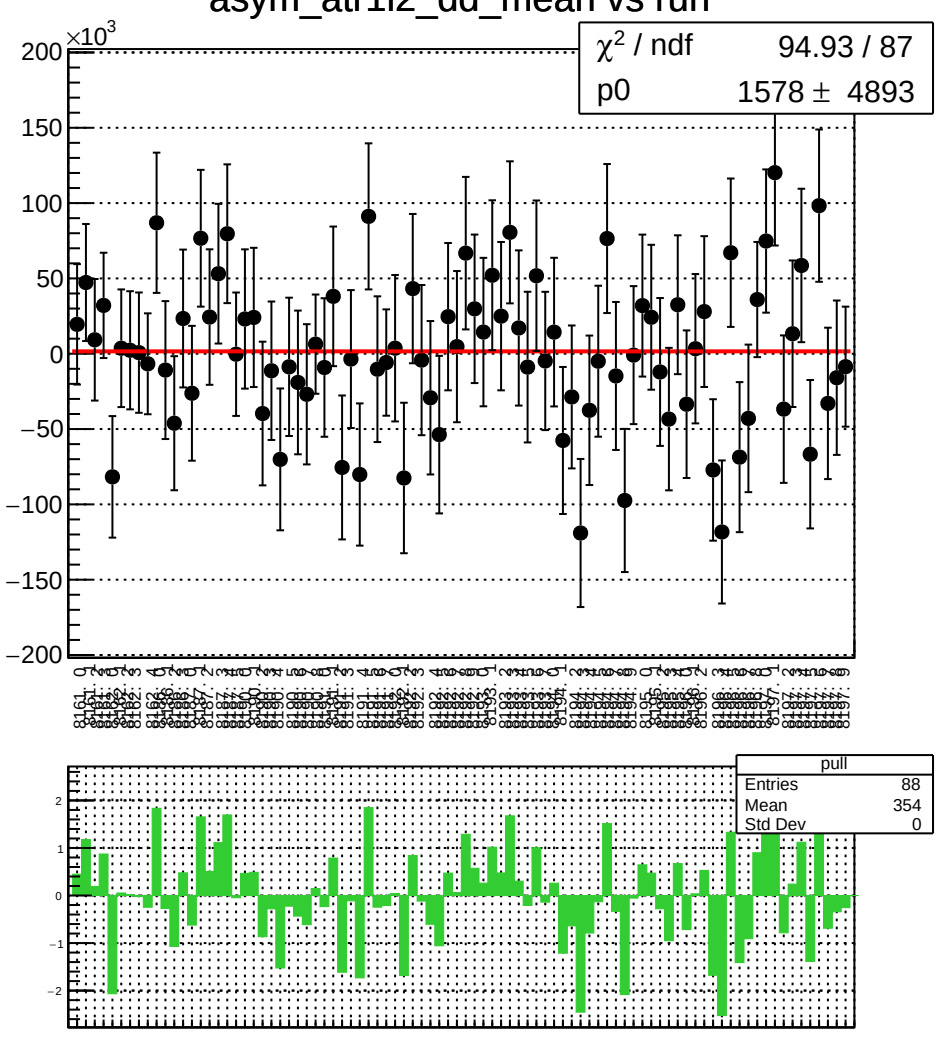

pull1D
Entries 88
Mean −0.01258
Std Dev 0.9986

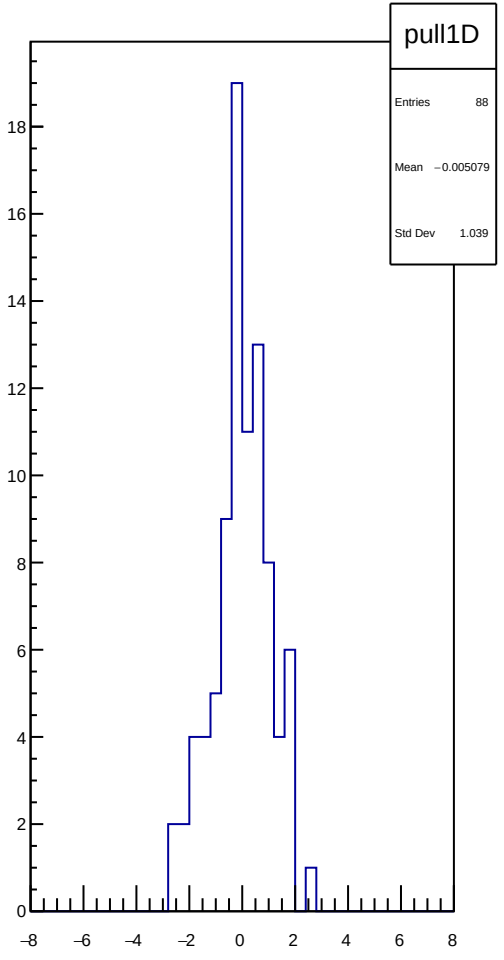

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 191.5 / 87
p0 1783 ± 1.381
1840
1820
1800
1780
1760
1740
1720
1700

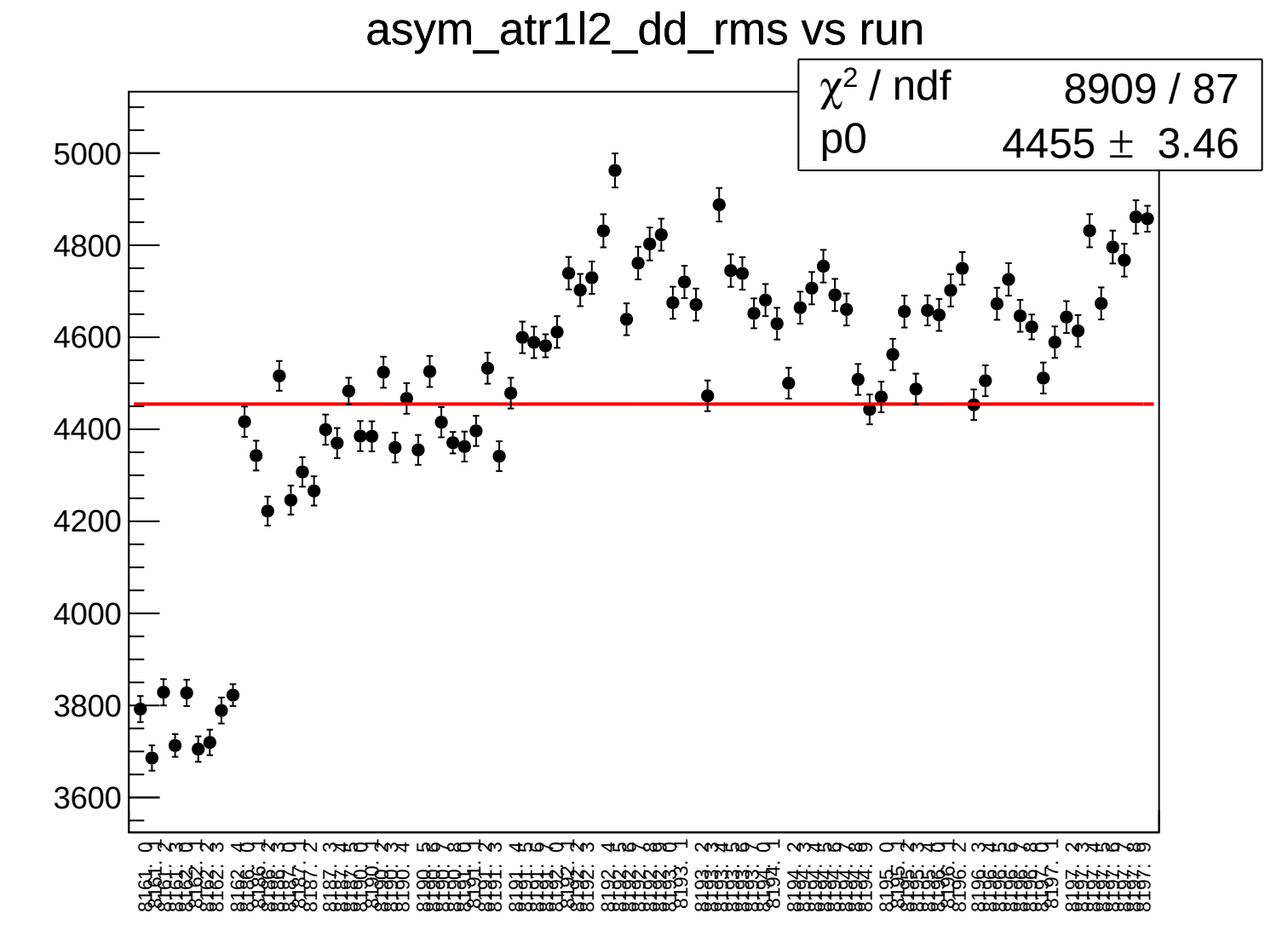

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.17 / 87
p0 384 ± 4538
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −427.5
Std Dev 0
2
1
0
−1
−2

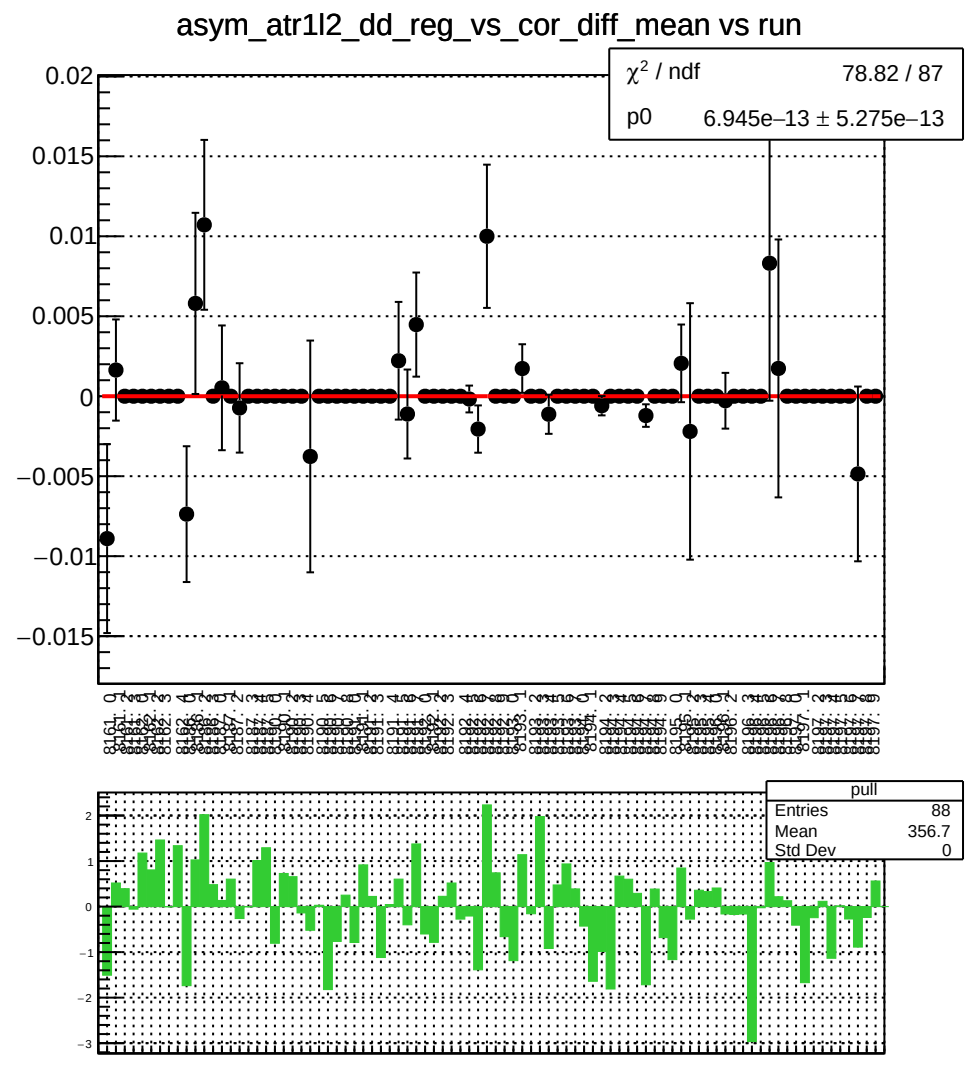

pull1D
Entries 88
Mean −0.003329
Std Dev 0.9425
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

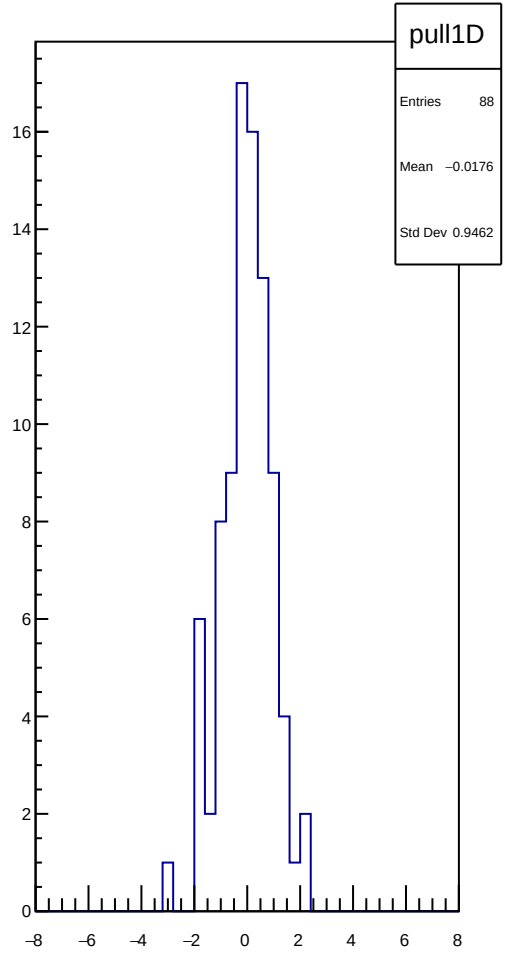

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.564e+04 / 87
p0 4123 ± 3.209
4800
4600
4400
4200
4000
3800
3600
3400
3200

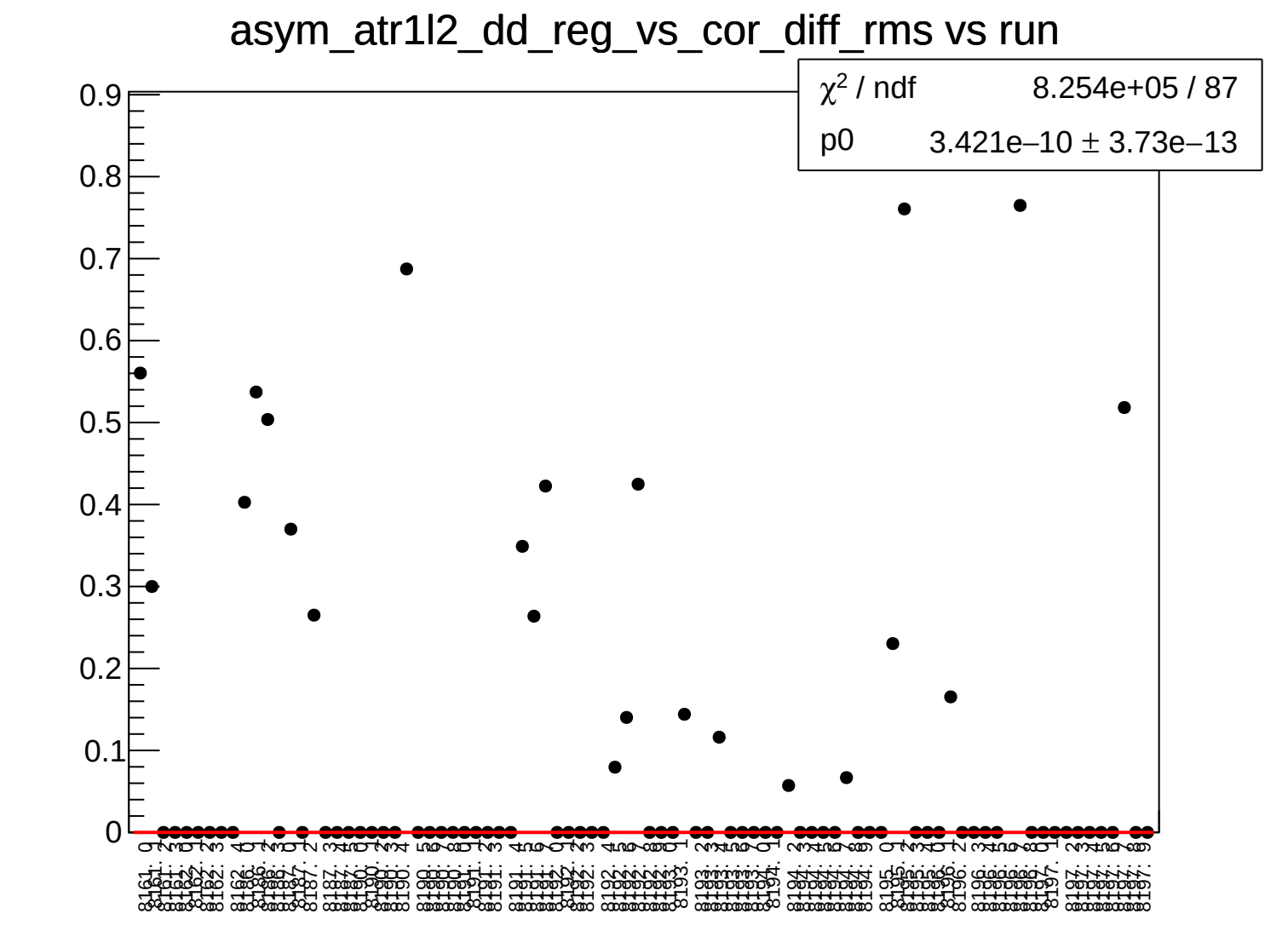

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 94.93 / 87
p0 1578 ± 4893
pull
Entries 88
Mean 354
Std Dev 0

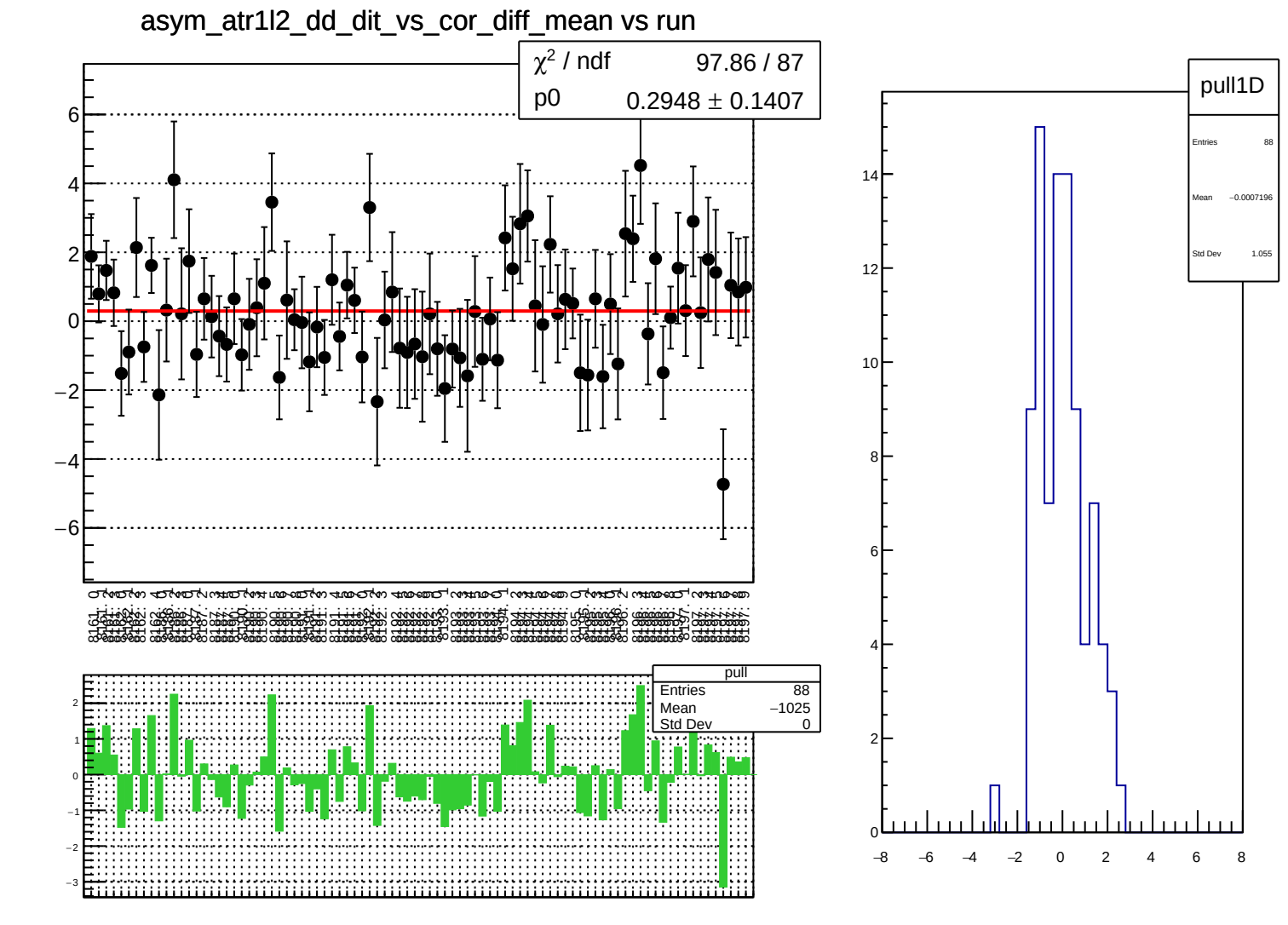

pull1D
Entries 88
Mean −0.005079
Std Dev 1.039

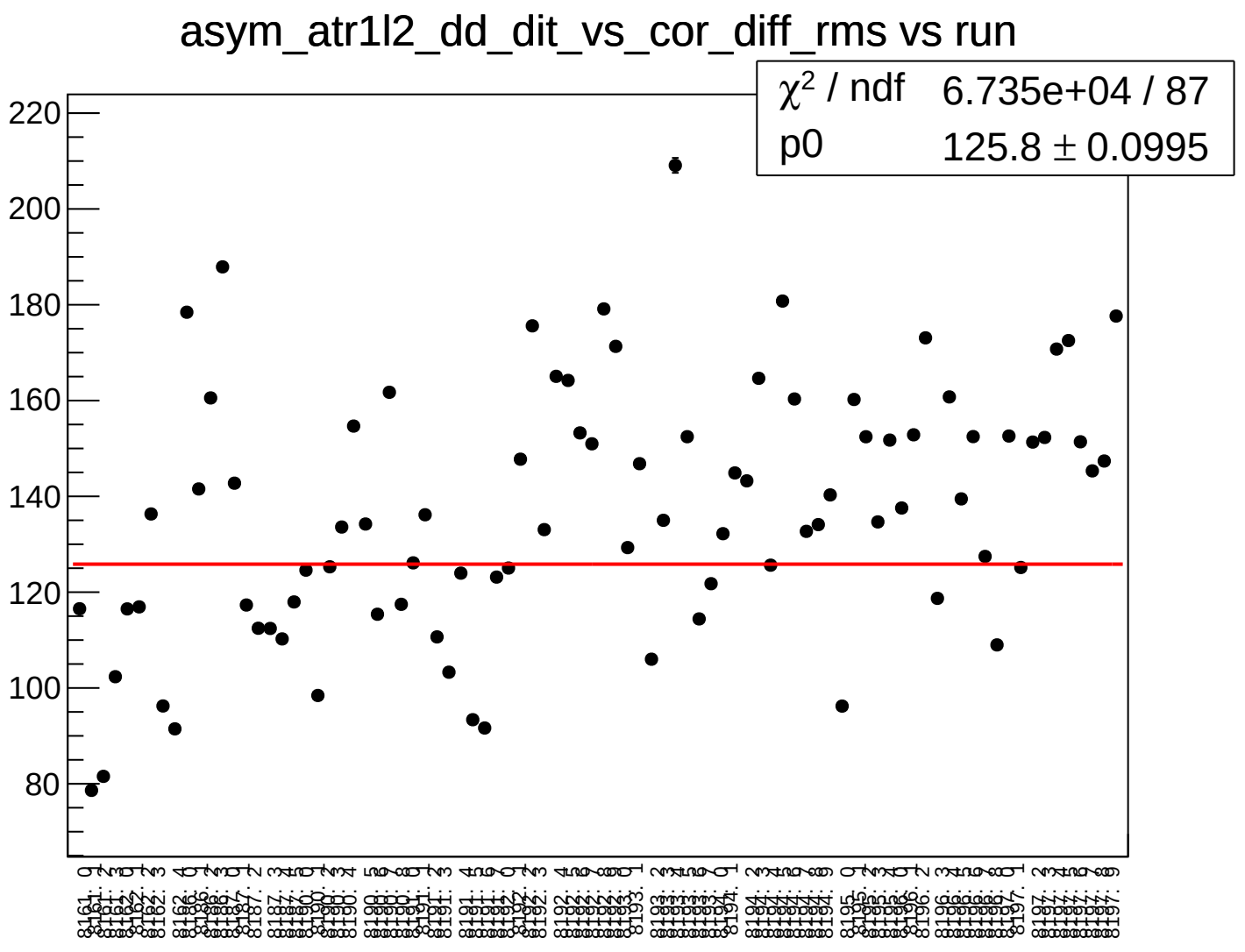

asym_atr1l2_dd_rms vs run
χ² / ndf 8909 / 87
p0 4455 ± 3.46
5000
4800
4600
4400
4200
4000
3800
3600

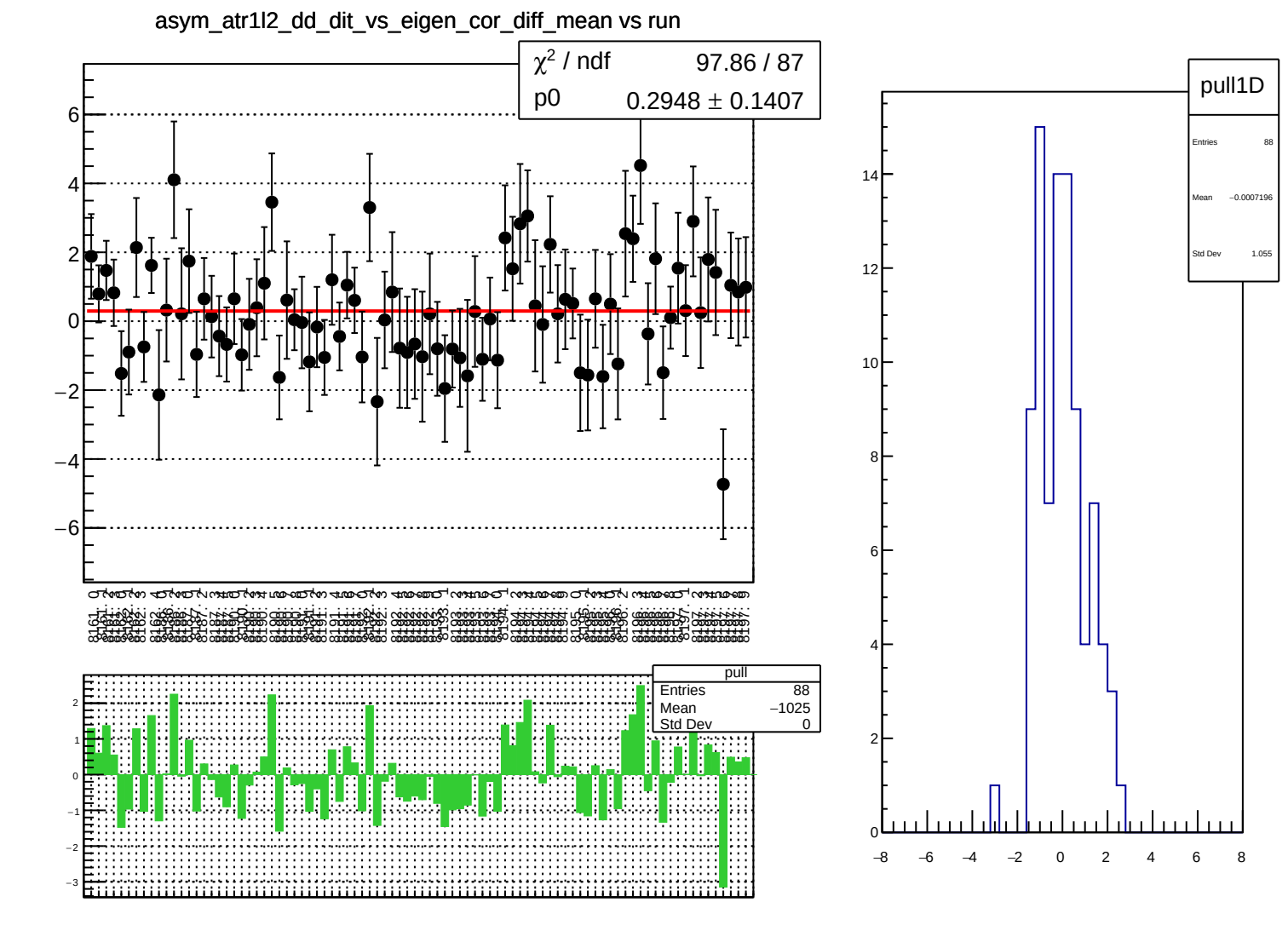

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.82 / 87
p0 6.945e−13 ± 5.275e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 356.7
Std Dev 0
2
1
0
−1
−2
−3

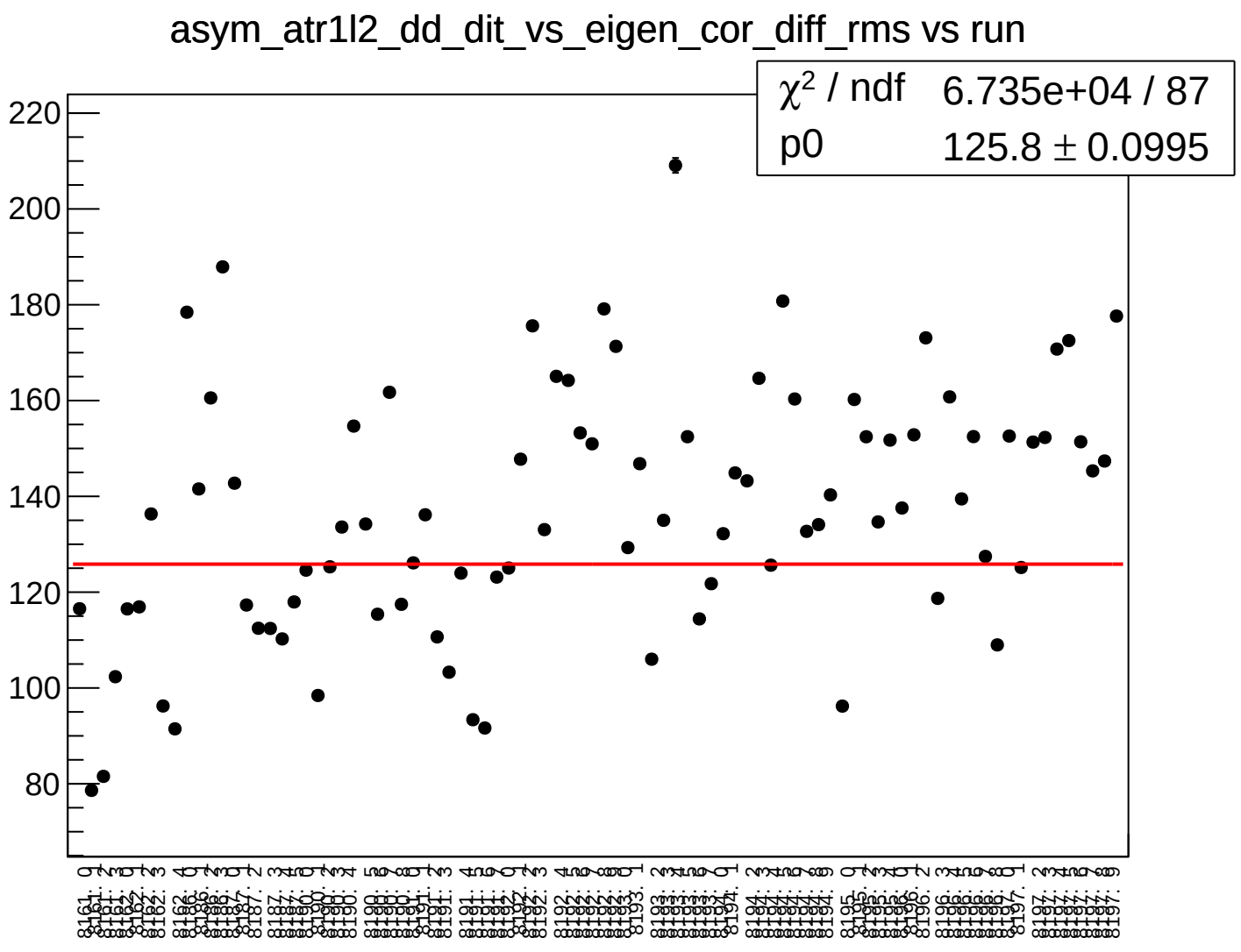

pull1D
Entries 88
Mean −0.0176
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

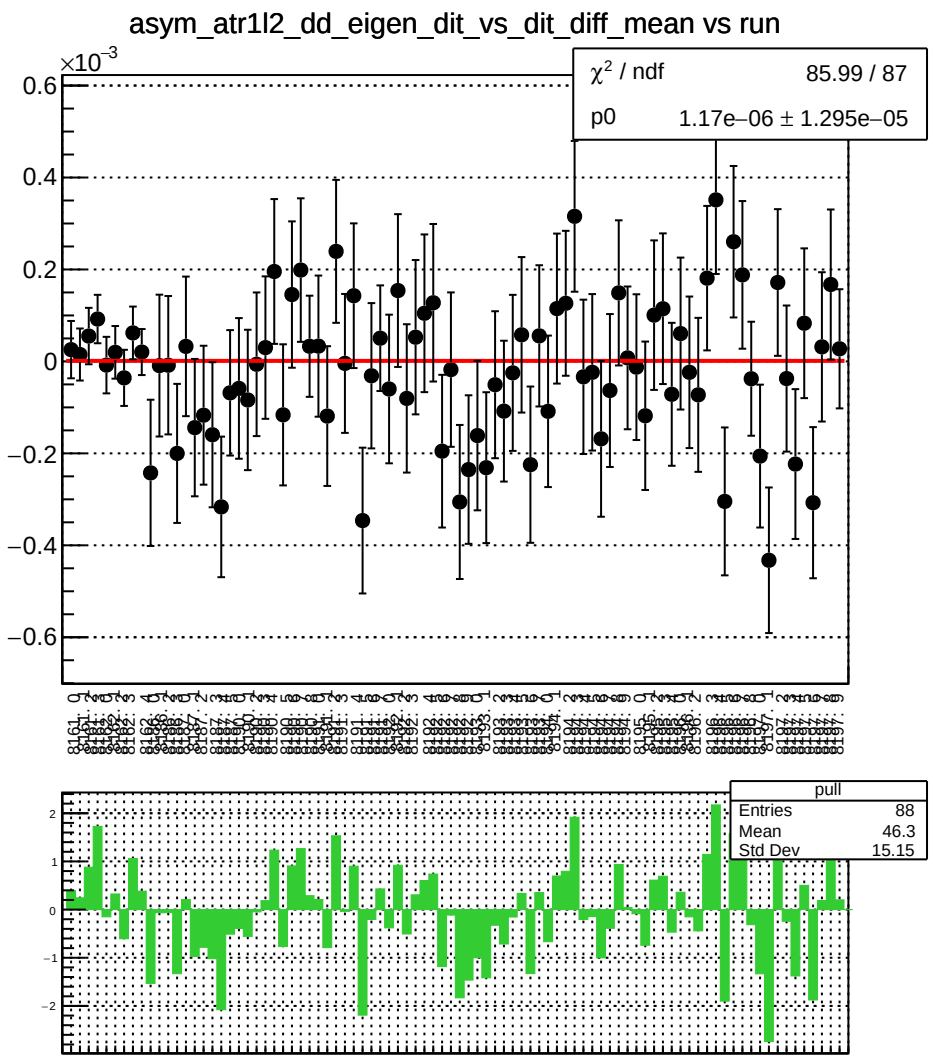

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.254e+05 / 87
p0 3.421e−10 ± 3.73e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

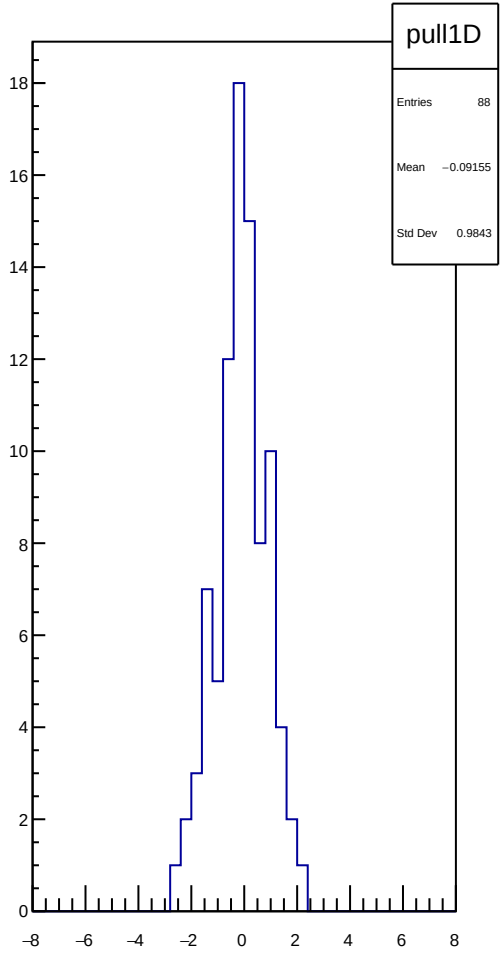

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.86 / 87
p0 0.2948 ± 0.1407
pull
Entries 88
Mean −1025
Std Dev 0
pull1D
Entries 88
Mean −0.0007196
Std Dev 1.055

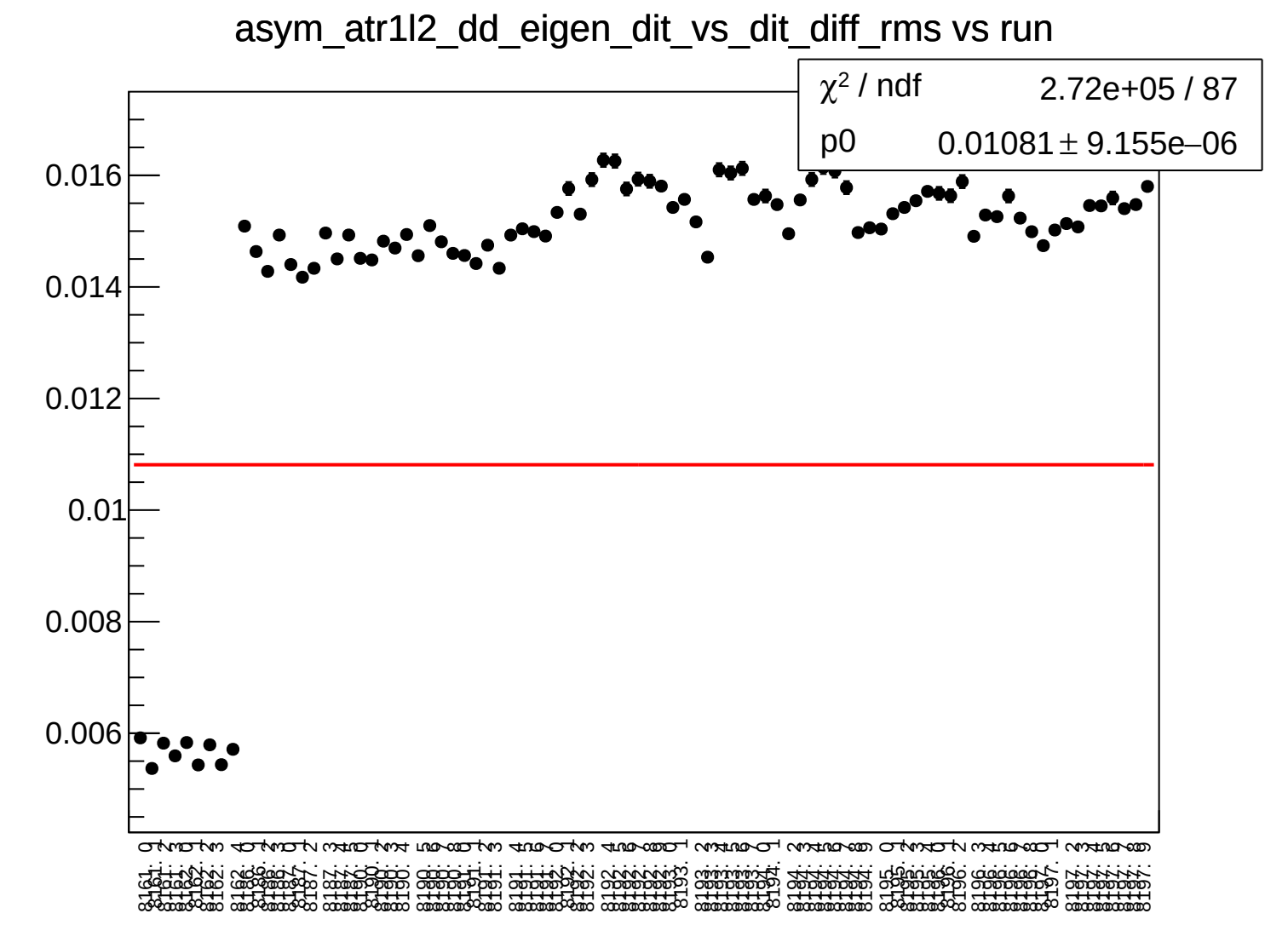

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.735e+04 / 87
p0 125.8 ± 0.0995
220
200
180
160
140
120
100
80

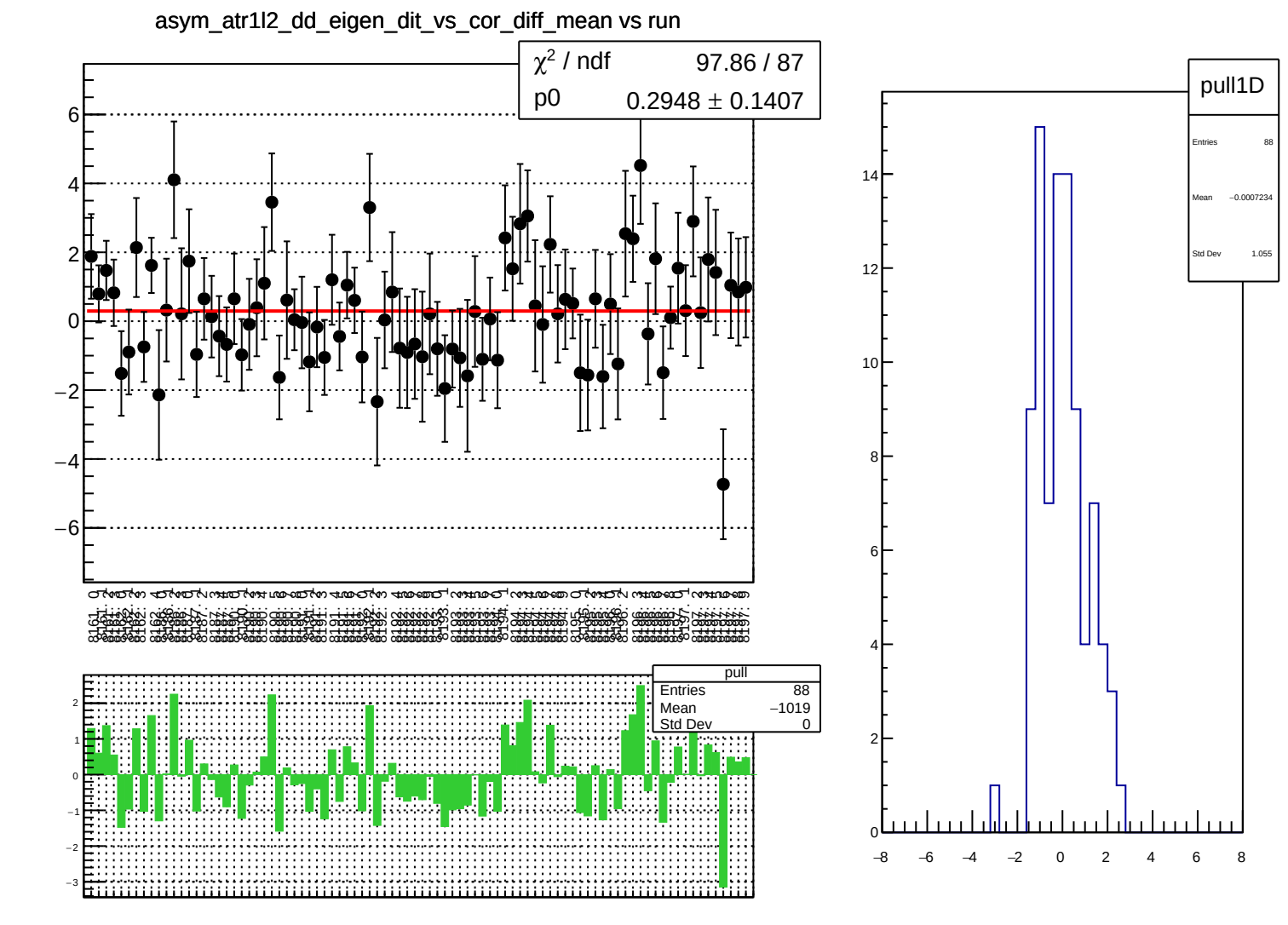

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.86 / 87
p0 0.2948 ± 0.1407
pull
Entries 88
Mean −1025
Std Dev 0
pull1D
Entries 88
Mean −0.0007196
Std Dev 1.055

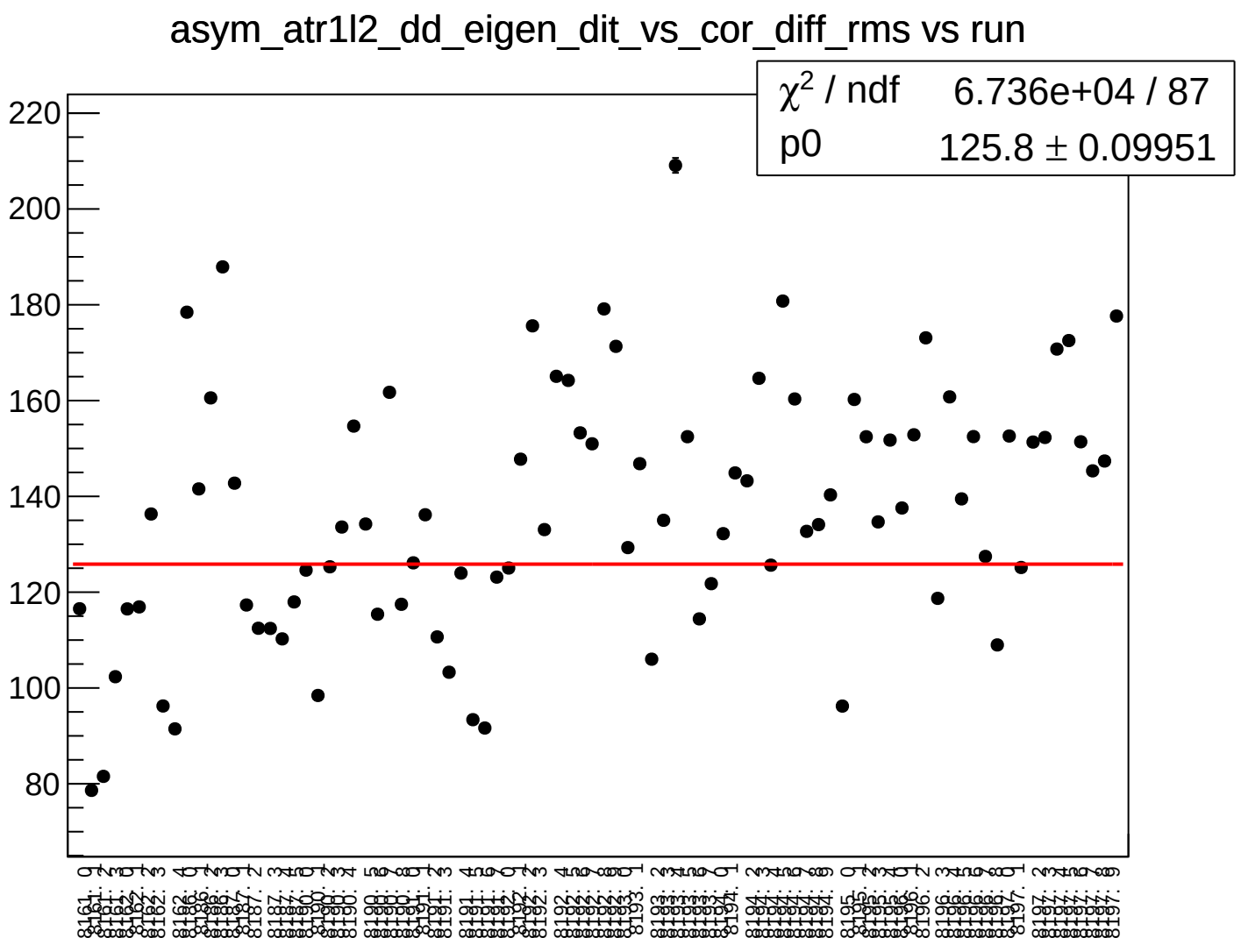

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.735e+04 / 87
p0 125.8 ± 0.0995
220
200
180
160
140
120
100
80

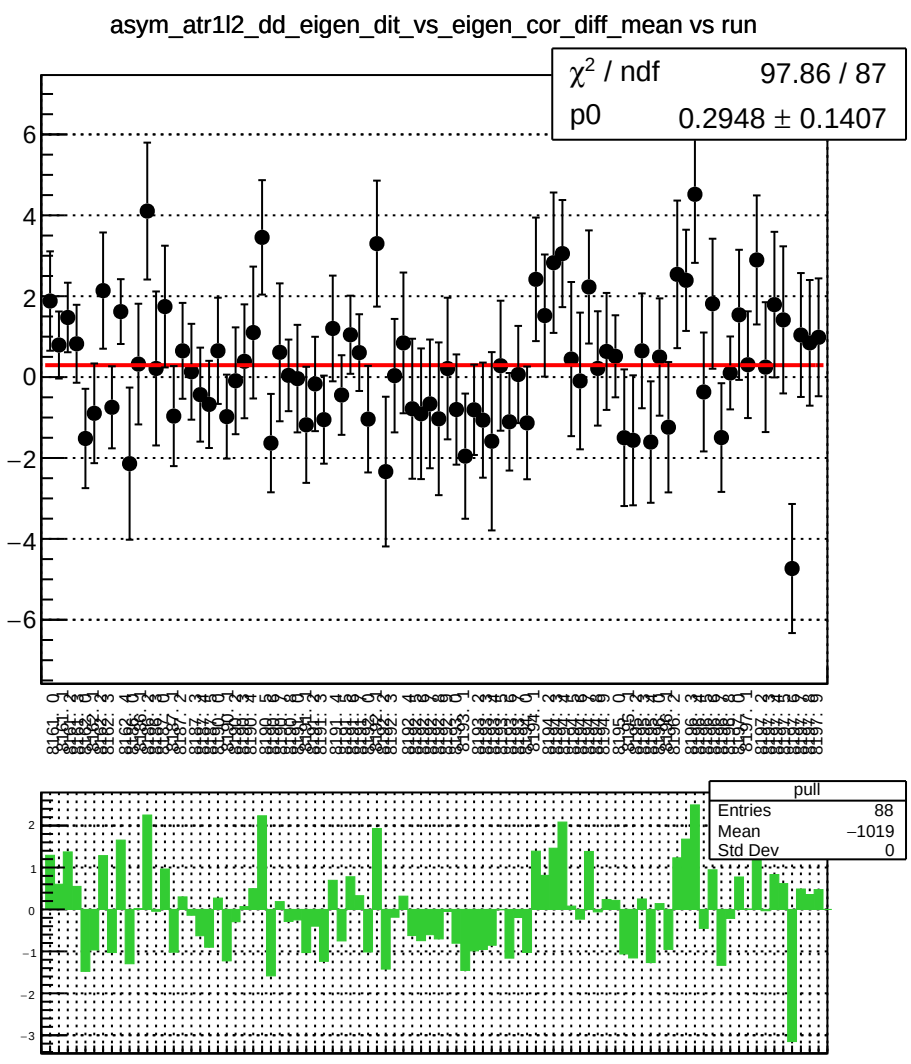

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.99 / 87
p0 1.17e−06 ± 1.295e−05
pull
Entries 88
Mean 46.3
Std Dev 15.15

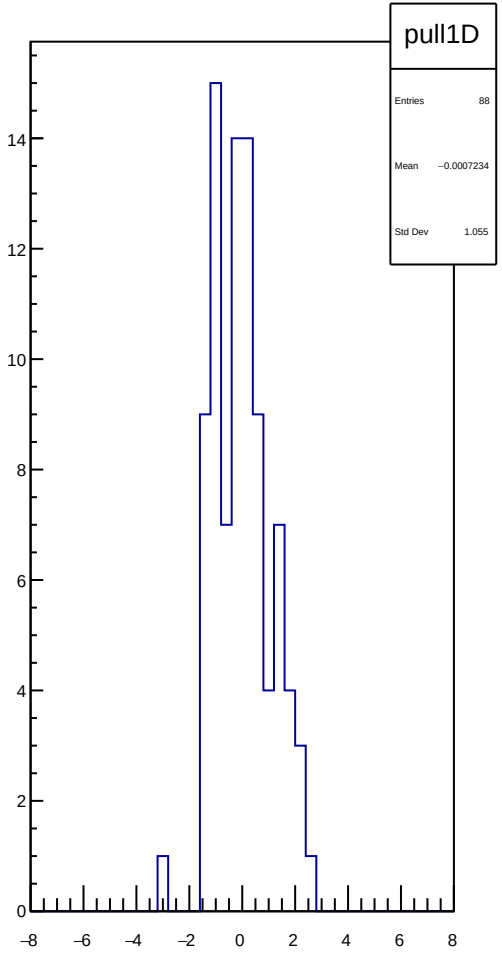

pull1D
Entries 88
Mean −0.09155
Std Dev 0.9843

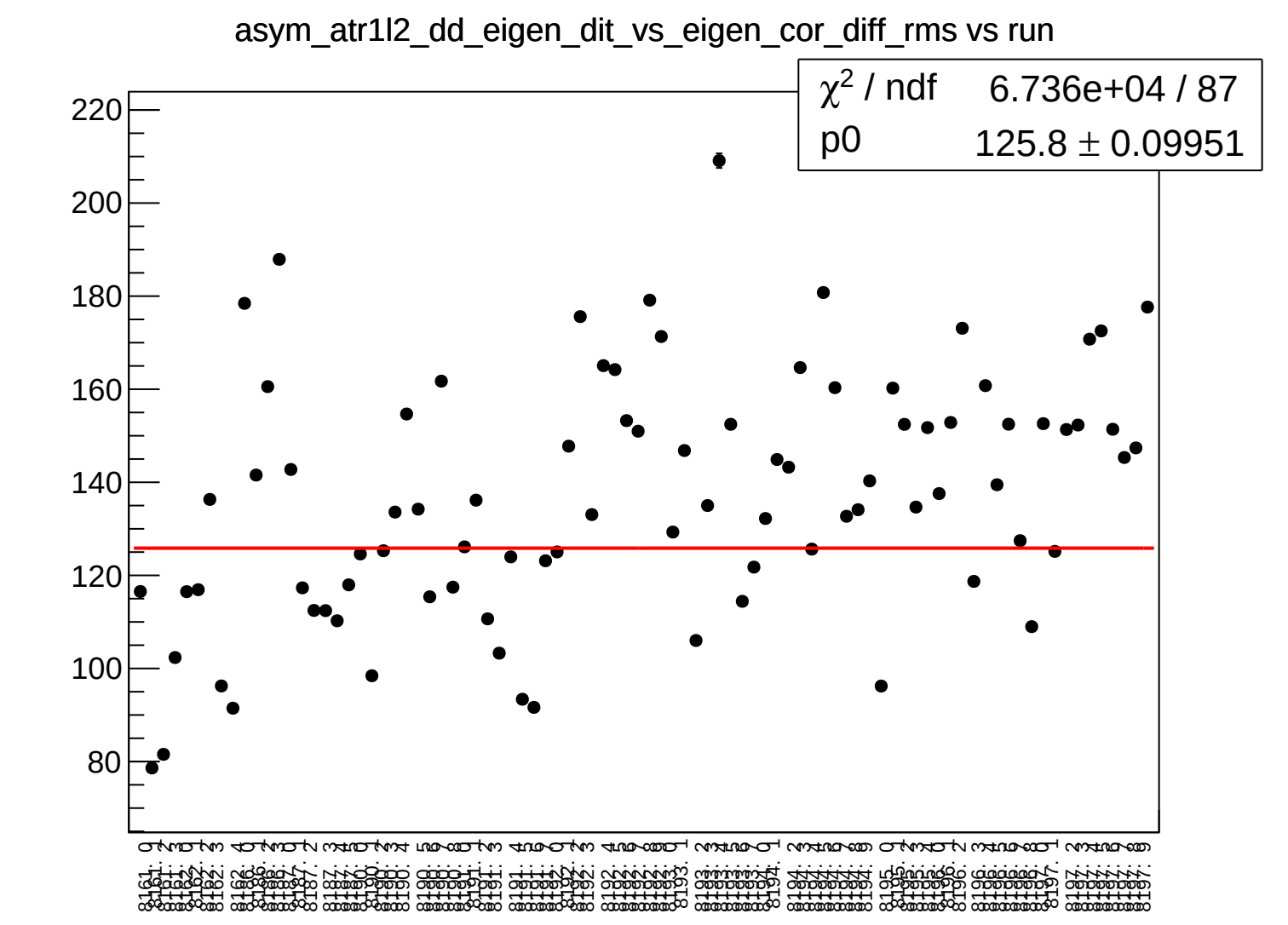

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.72e+05 / 87
p0 0.01081 ± 9.155e−06
0.016
0.014
0.012
0.01
0.008
0.006

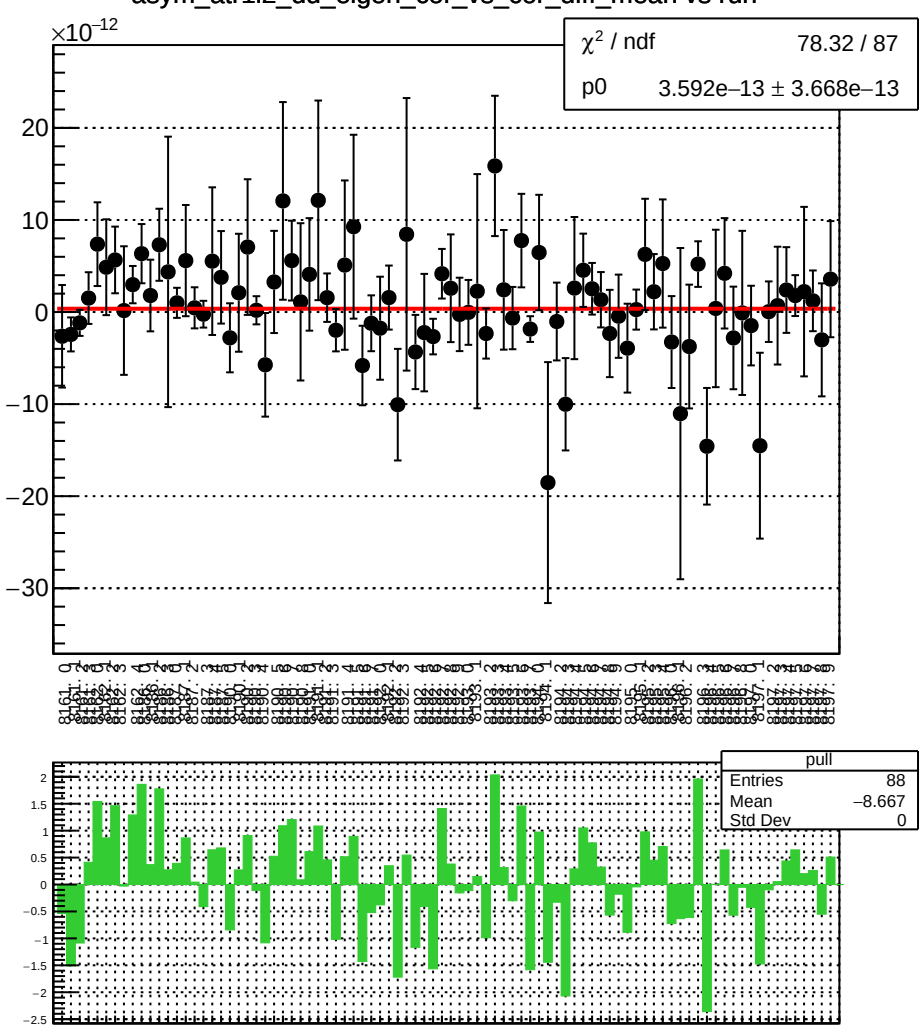

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.86 / 87
p0 0.2948 ± 0.1407
pull
Entries 88
Mean −1019
Std Dev 0
pull1D
Entries 88
Mean −0.0007234
Std Dev 1.055

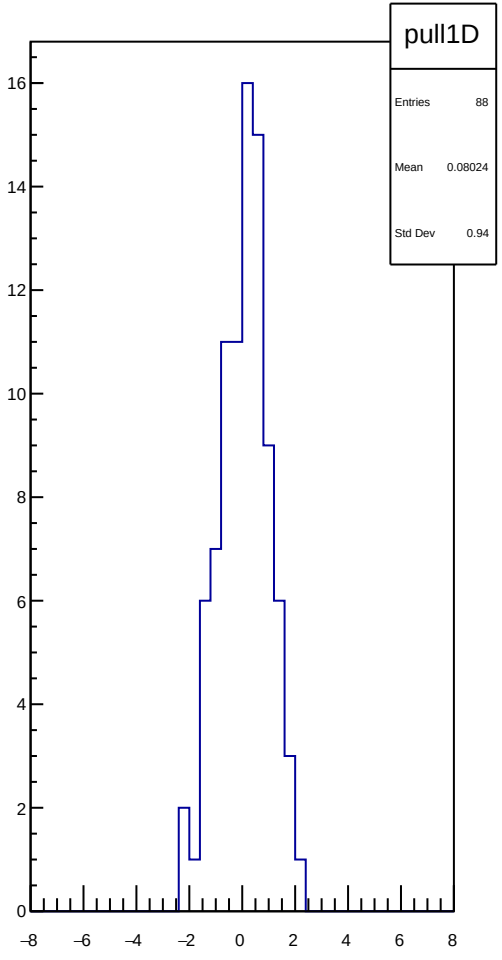

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.736e+04 / 87
p0 125.8 ± 0.09951
220
200
180
160
140
120
100
80

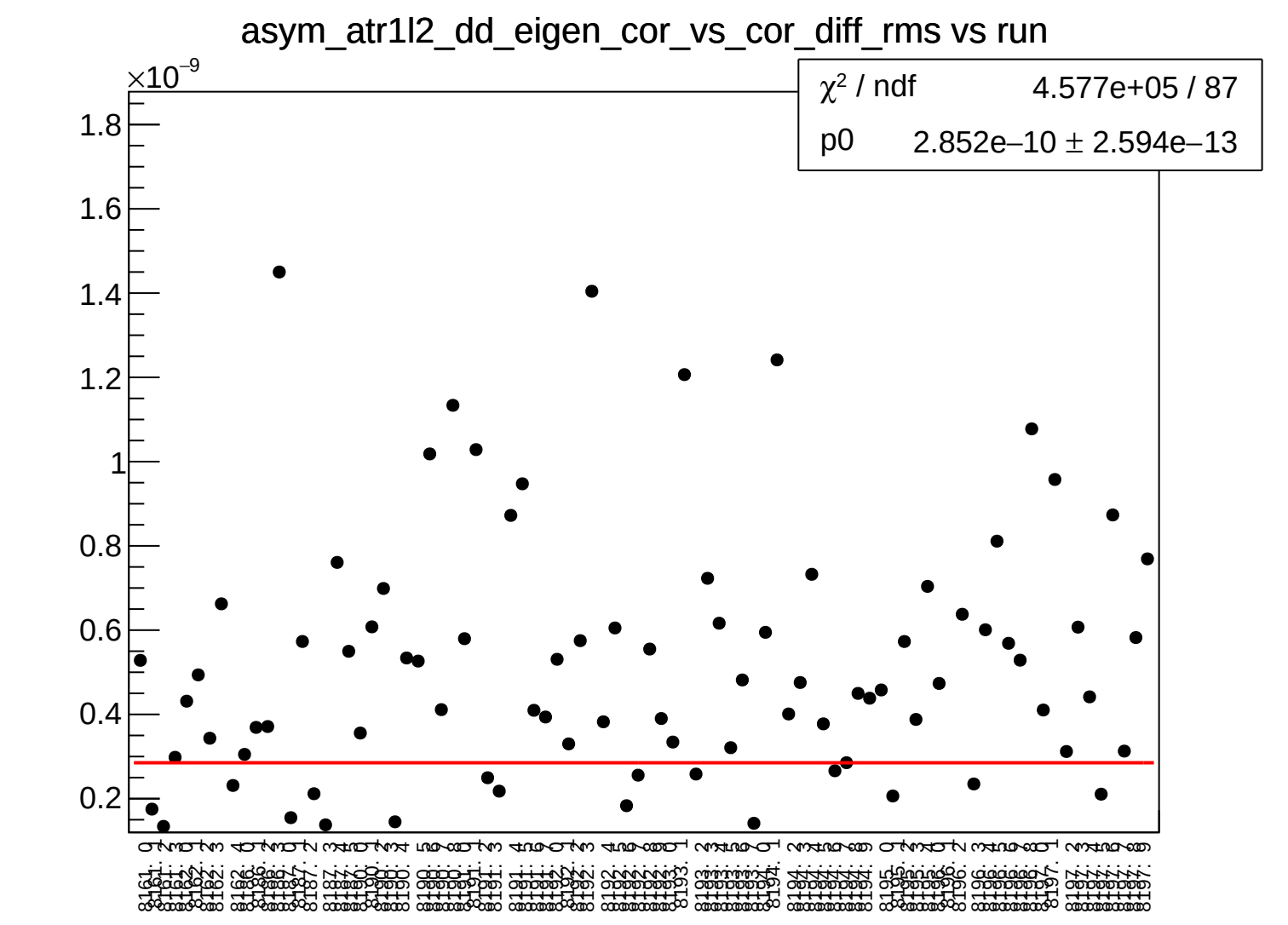

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.86 / 87
p0 0.2948 ± 0.1407
pull
Entries 88
Mean −1019
Std Dev 0

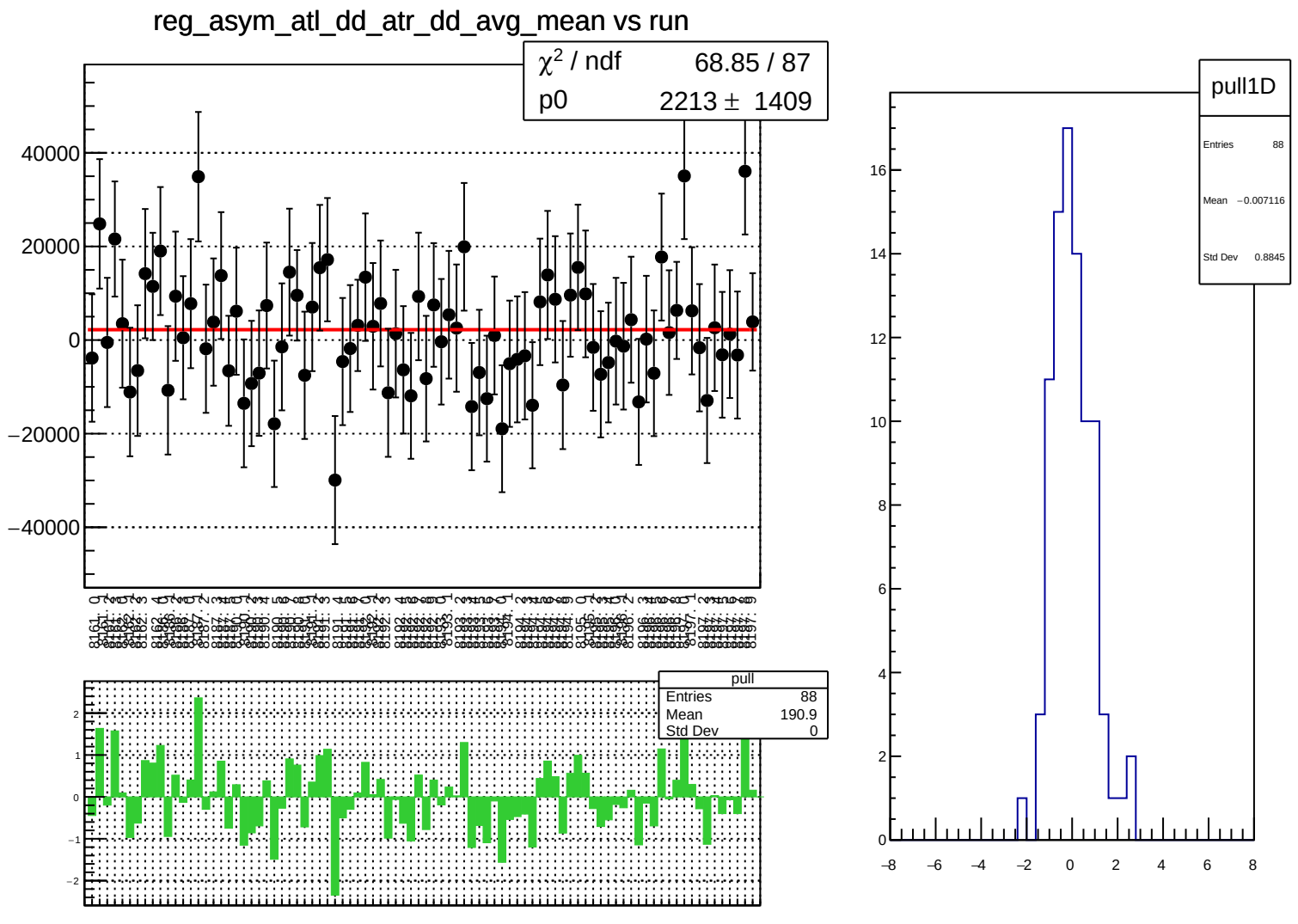

pull1D
Entries 88
Mean −0.0007234
Std Dev 1.055

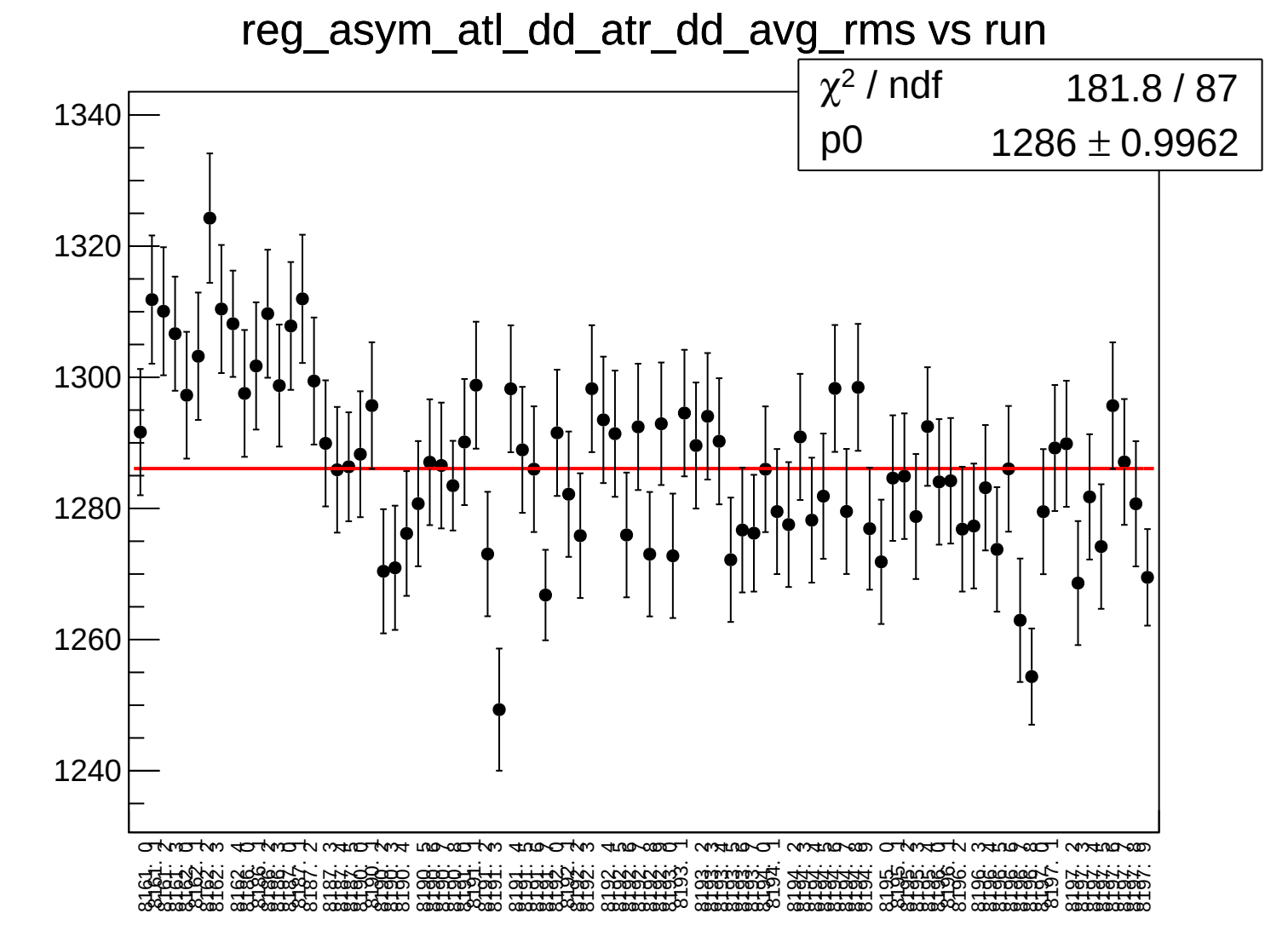

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.736e+04 / 87
p0 125.8 ± 0.09951
220
200
180
160
140
120
100
80

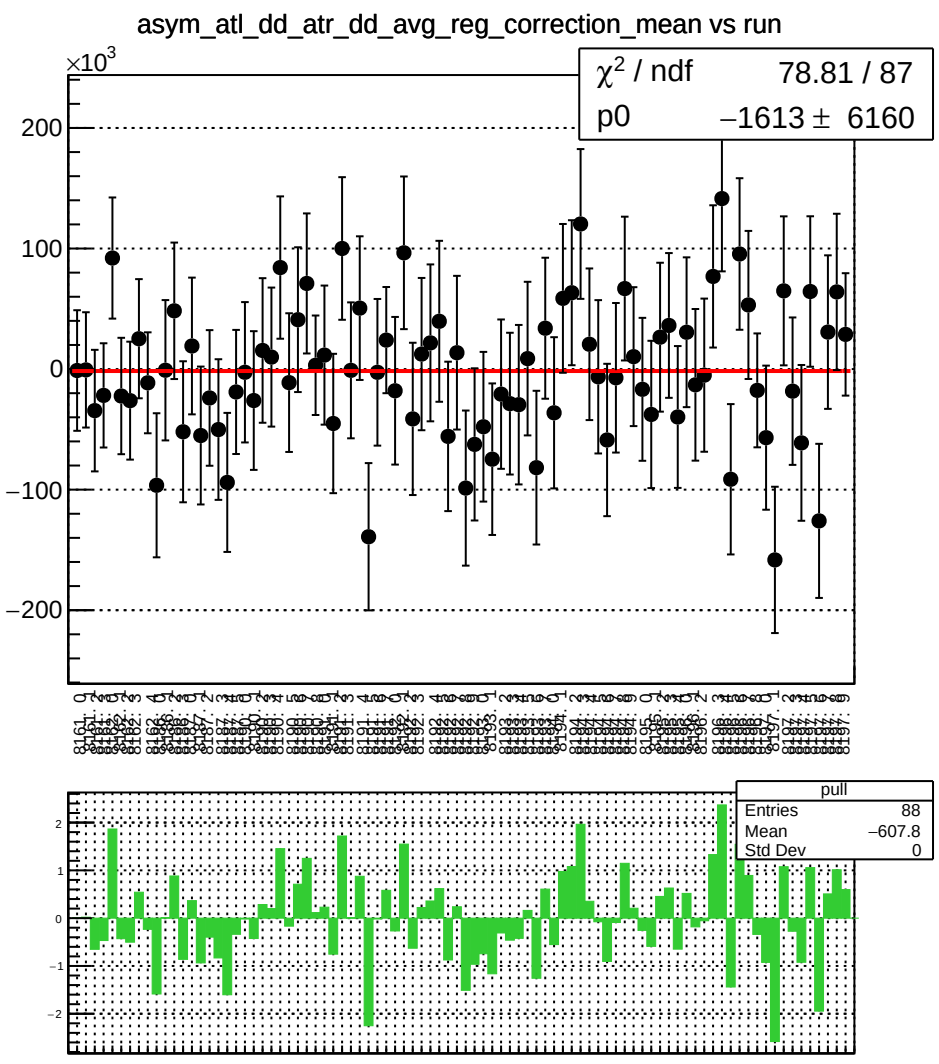

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.32 / 87
p0 3.592e−13 ± 3.668e−13
pull
Entries 88
Mean −8.667
Std Dev 0

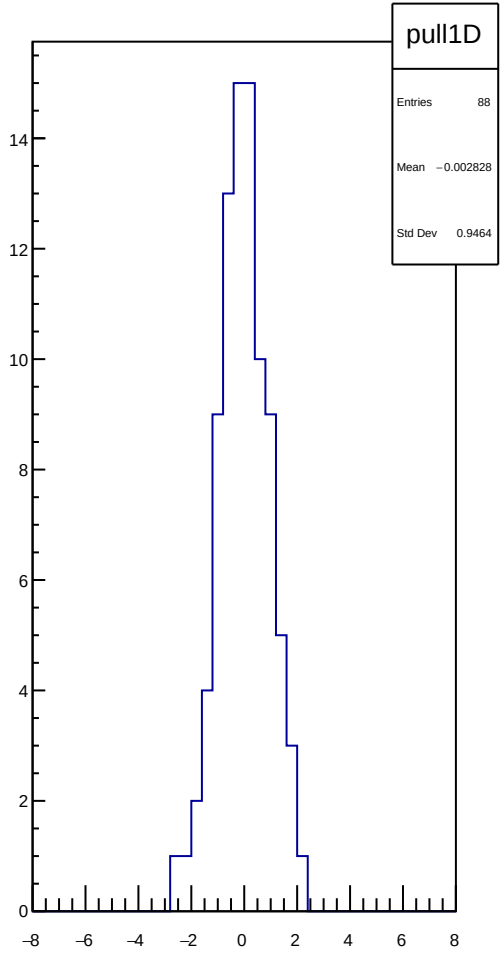

pull1D
Entries 88
Mean 0.08024
Std Dev 0.94

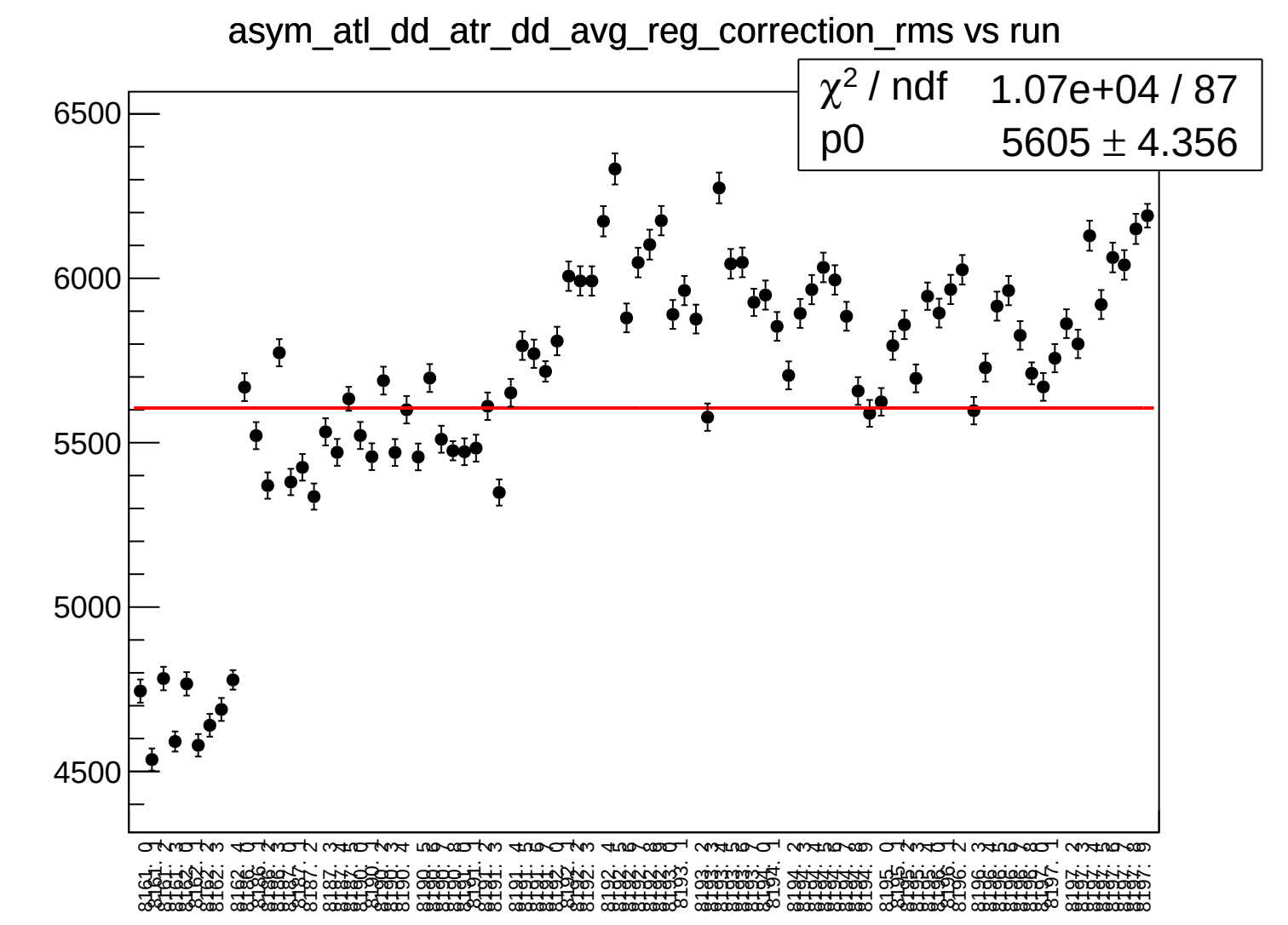

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.577e+05 / 87
p0 2.852e−10 ± 2.594e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

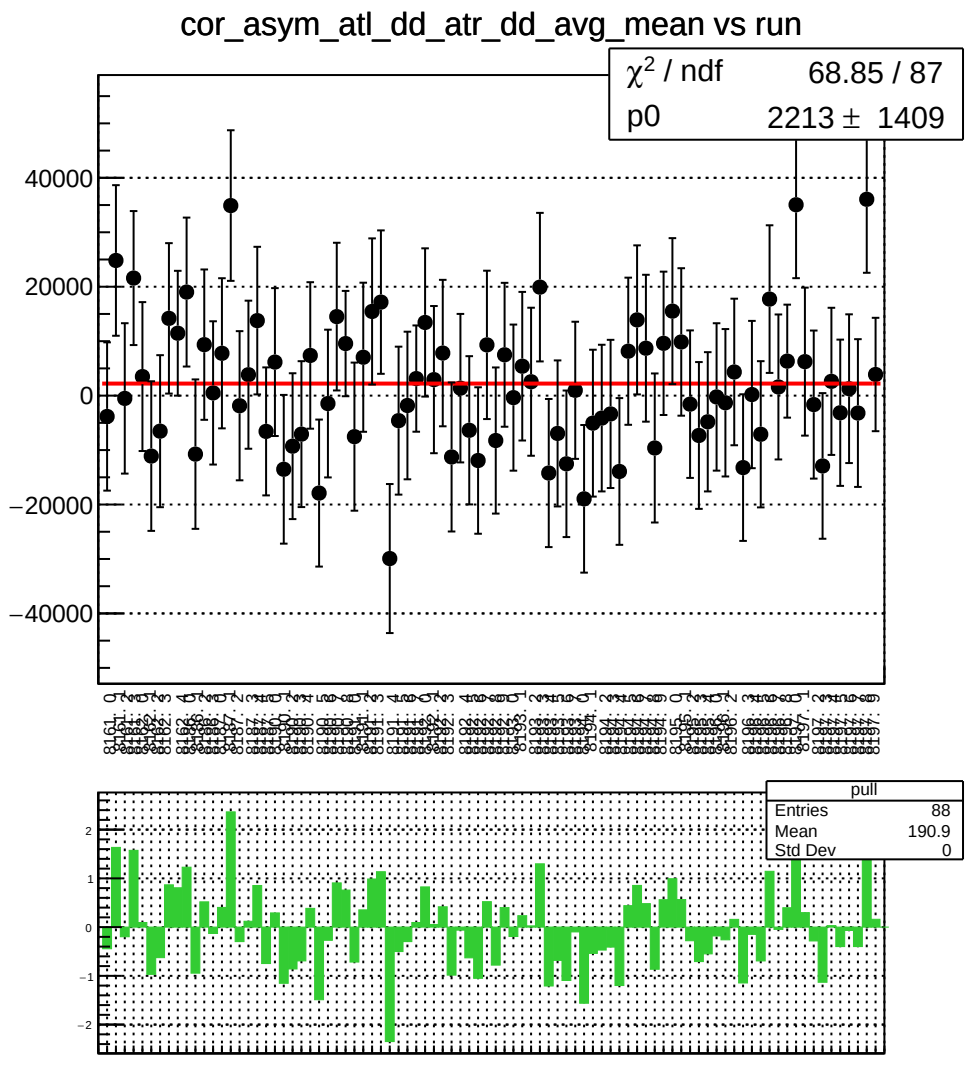

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 68.85 / 87
p0 2213 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 190.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007116
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

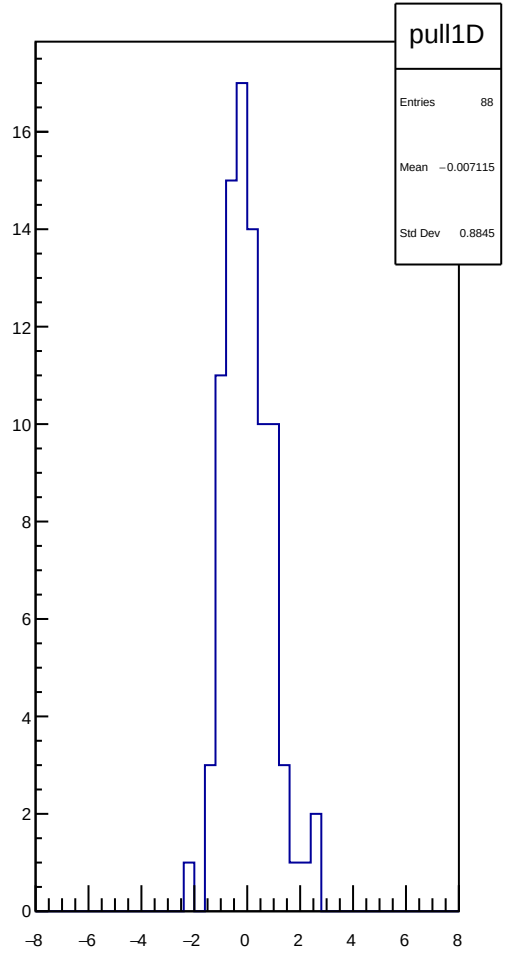

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 181.8 / 87
p0 1286 ± 0.9962
1340
1320
1300
1280
1260
1240

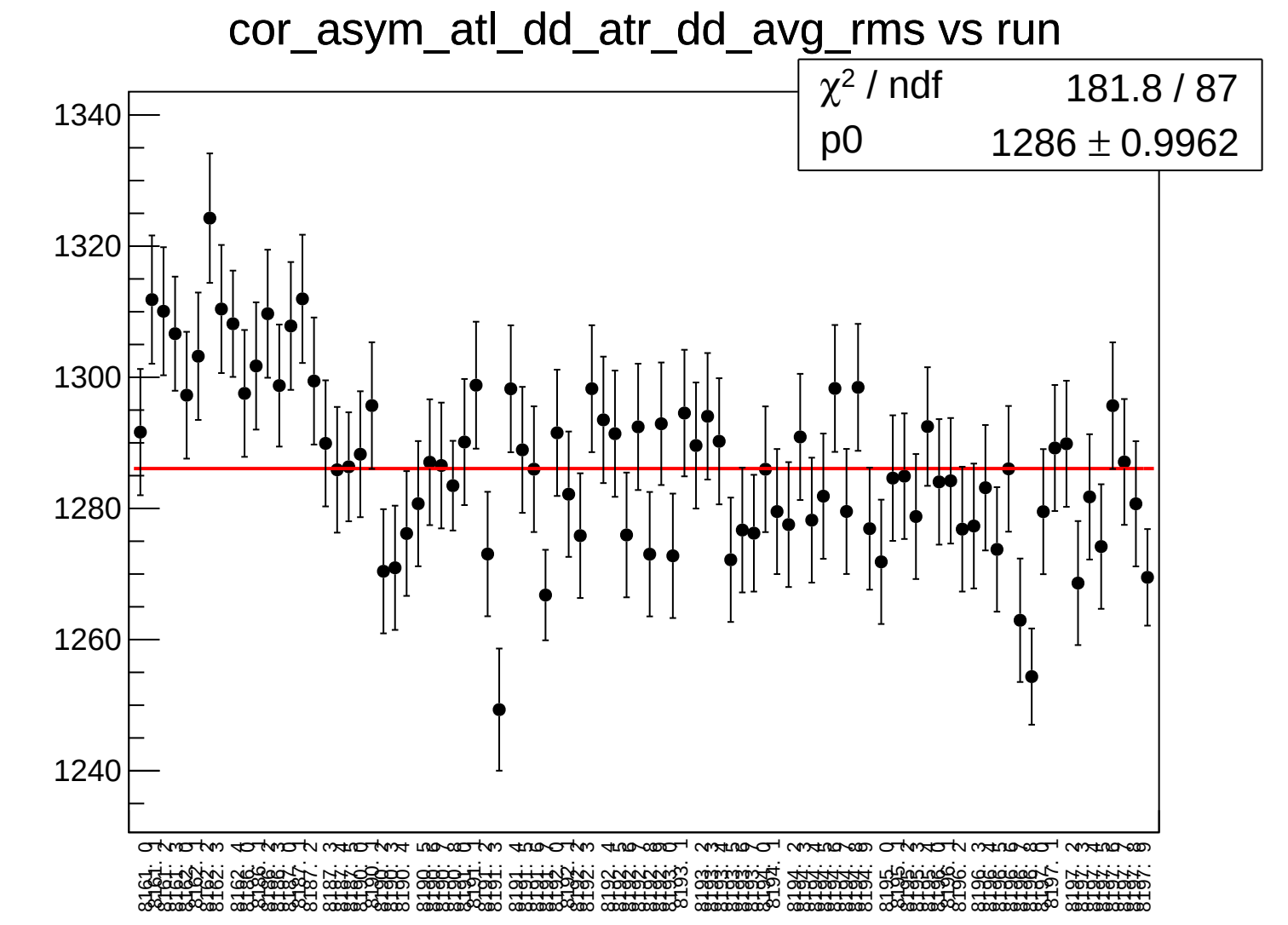

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.81 / 87
p0 −1613 ± 6160
200
100
0
−100
−200
pull
Entries 88
Mean −607.8
Std Dev 0
2
1
0
−1
−2

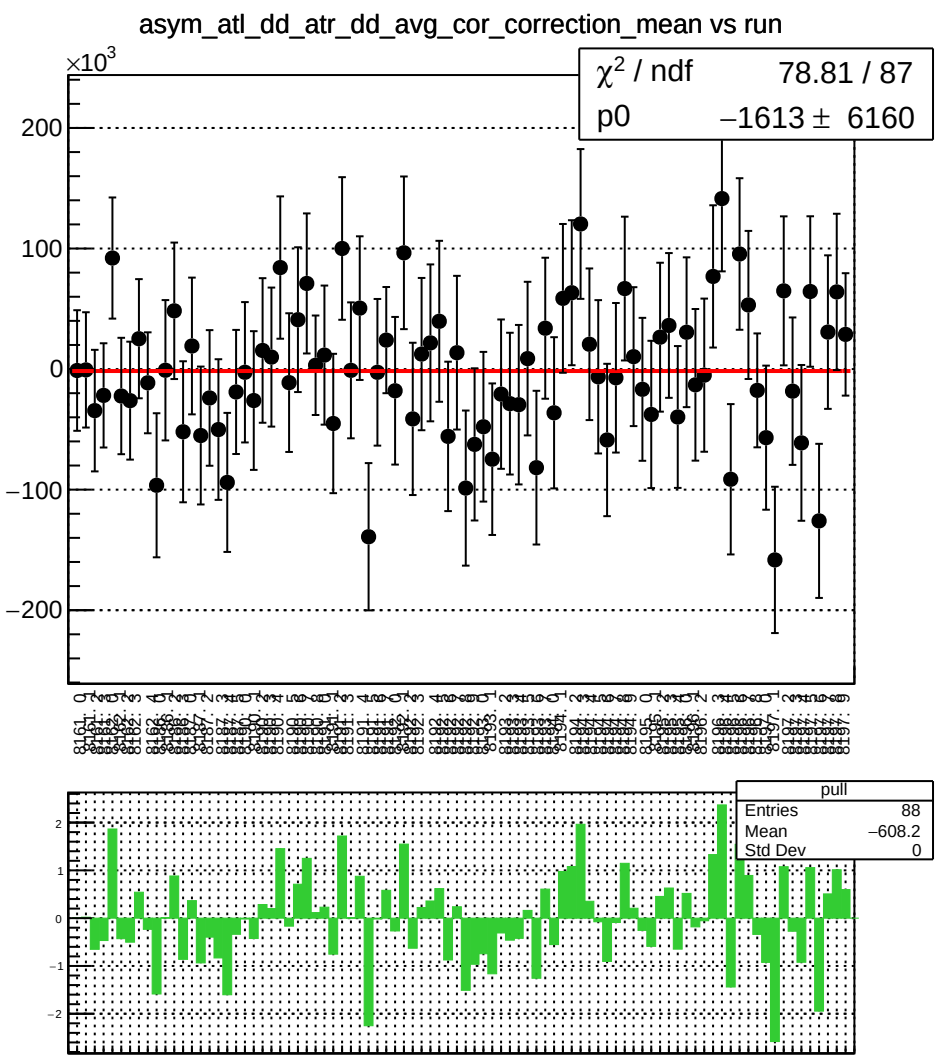

pull1D
Entries 88
Mean −0.002828
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

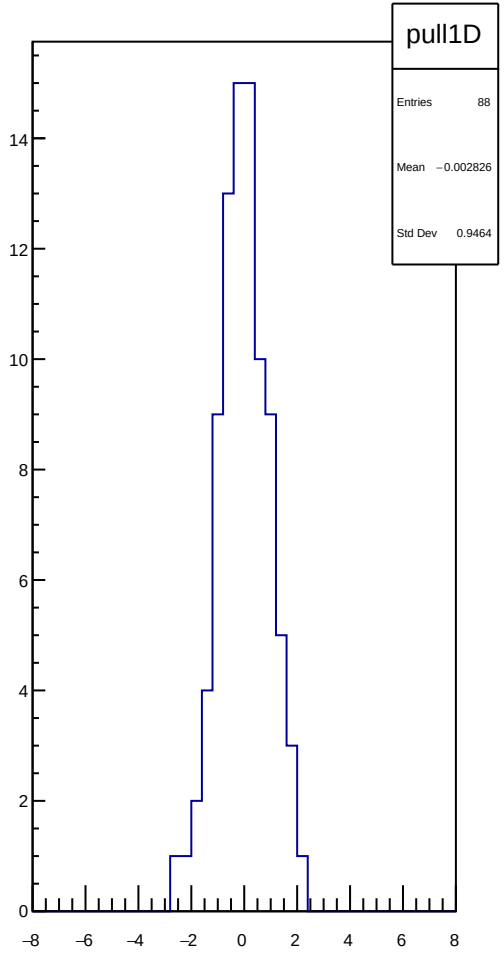

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.07e+04 / 87
p0 5605 ± 4.356
6500
6000
5500
5000
4500

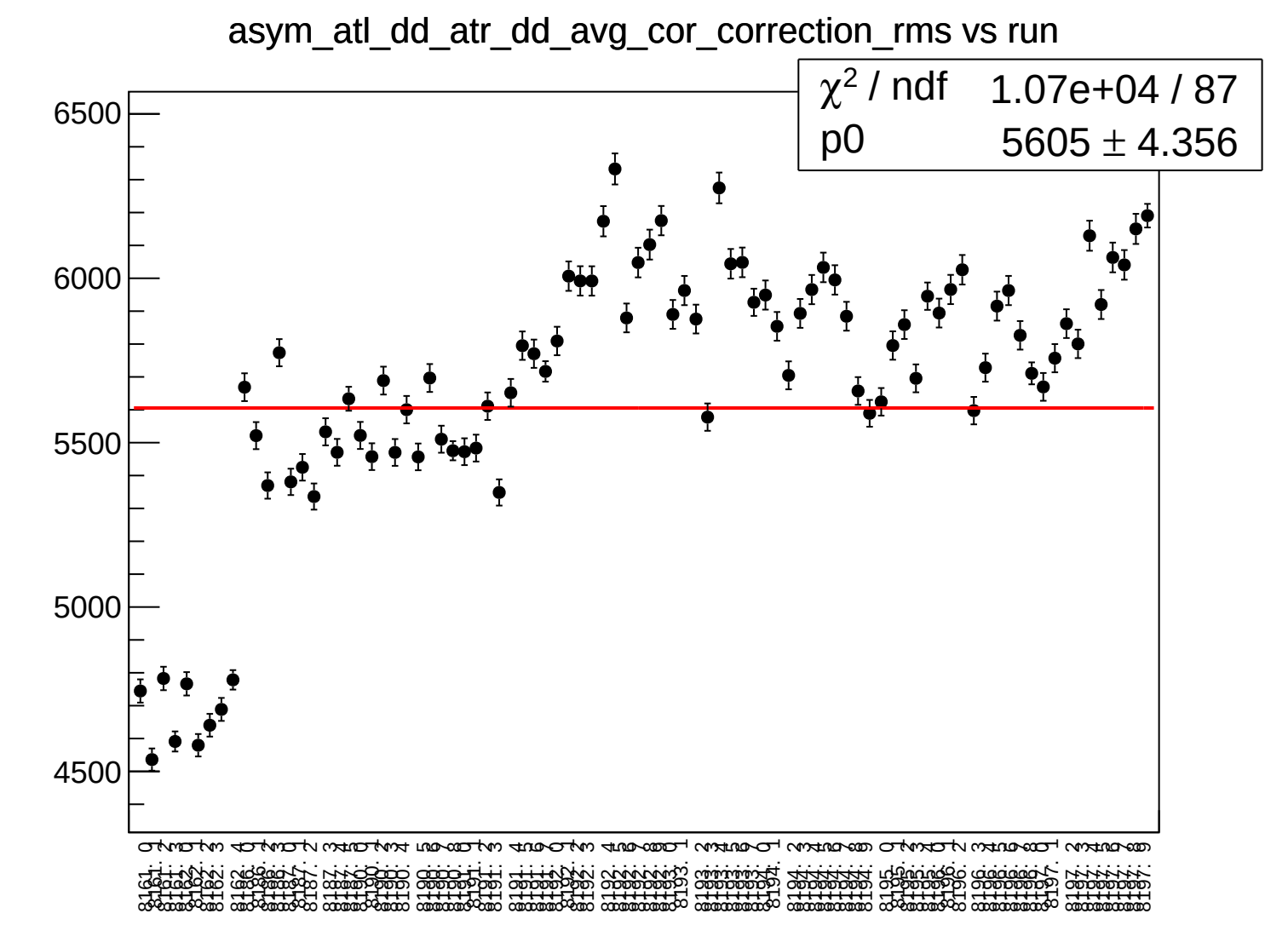

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 68.85 / 87
p0 2213 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 190.9
Std Dev 0
2
1
0
−1
−2

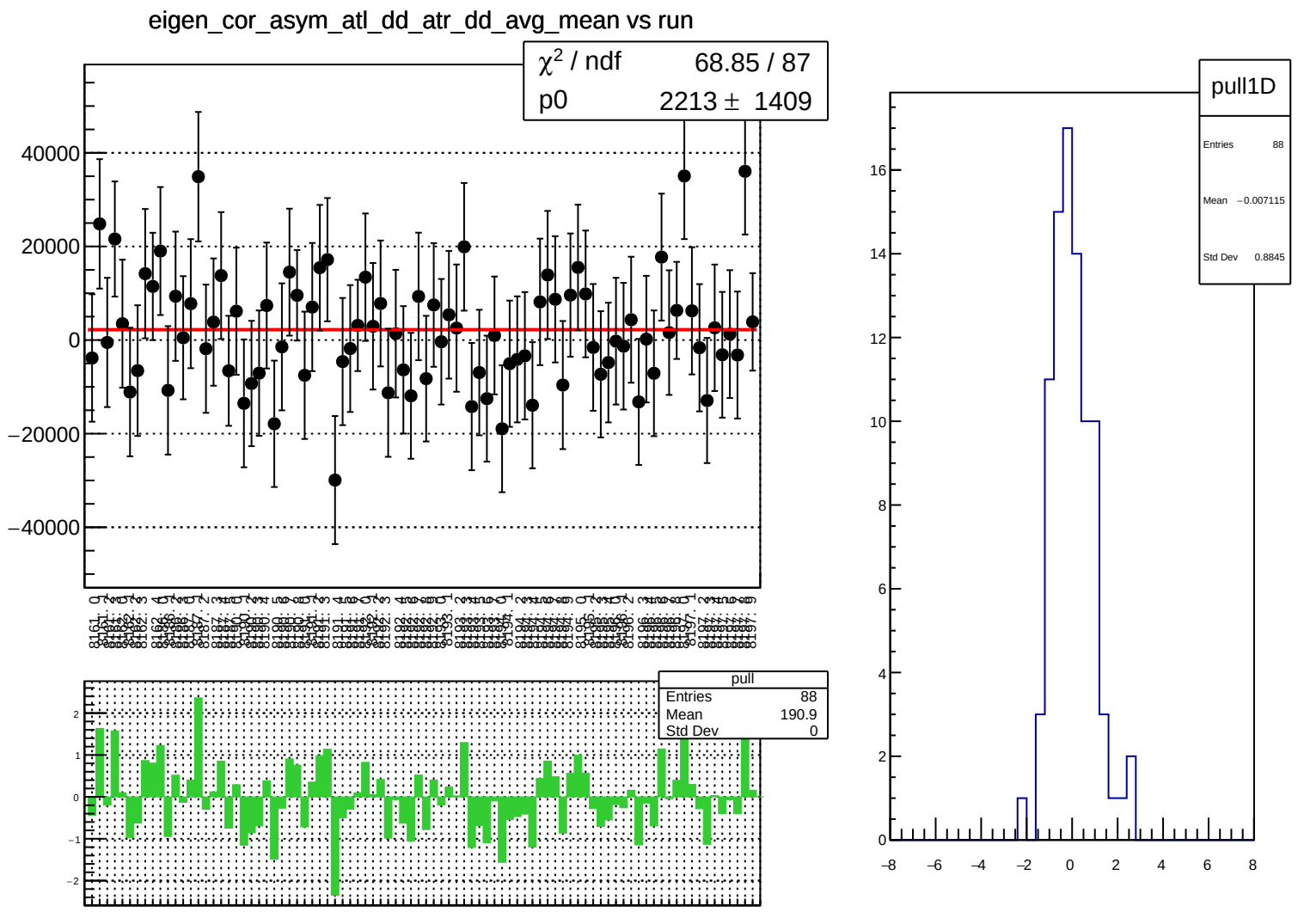

pull1D
Entries 88
Mean −0.007115
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

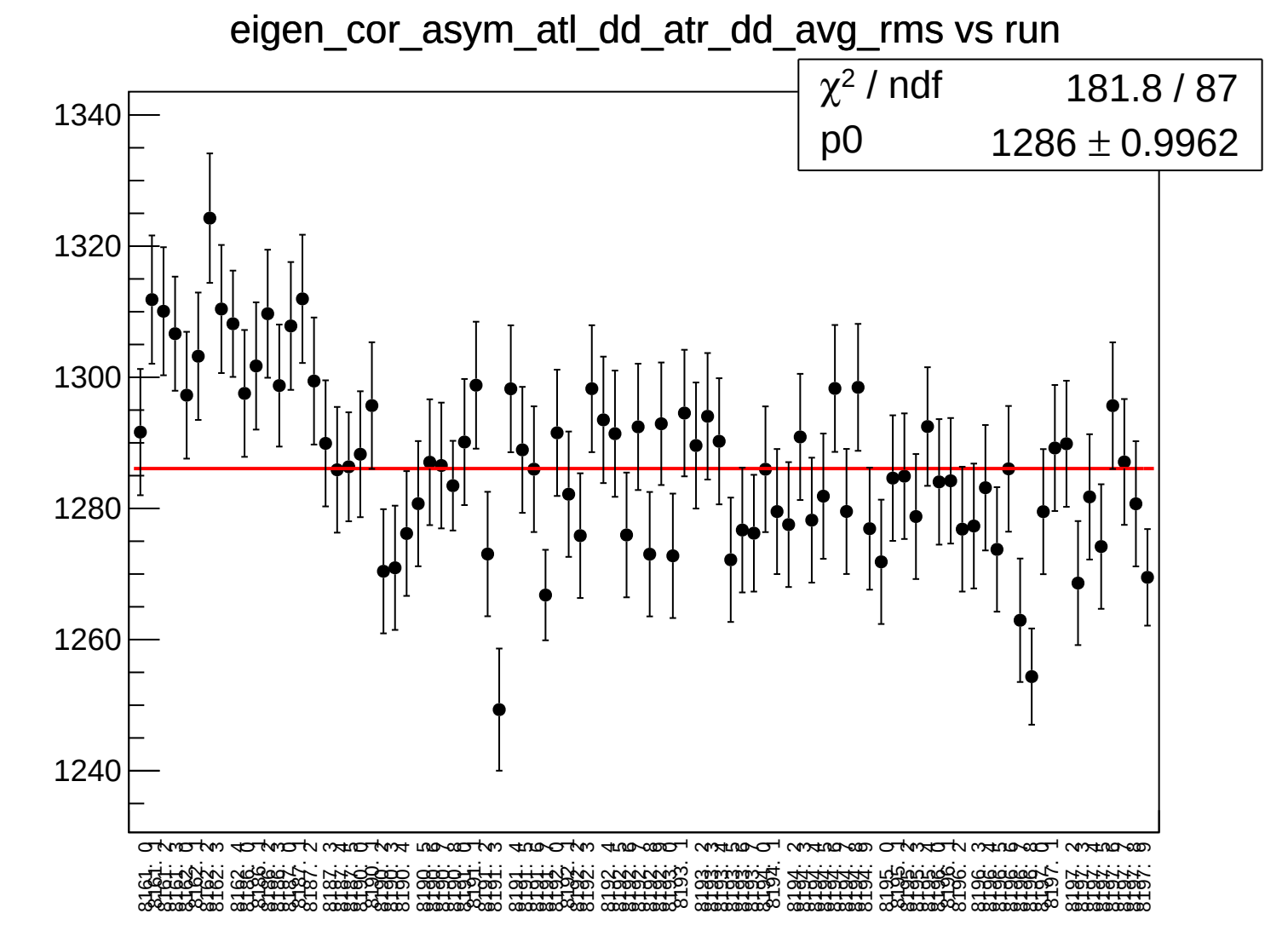

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 181.8 / 87
p0 1286 ± 0.9962
1340
1320
1300
1280
1260
1240

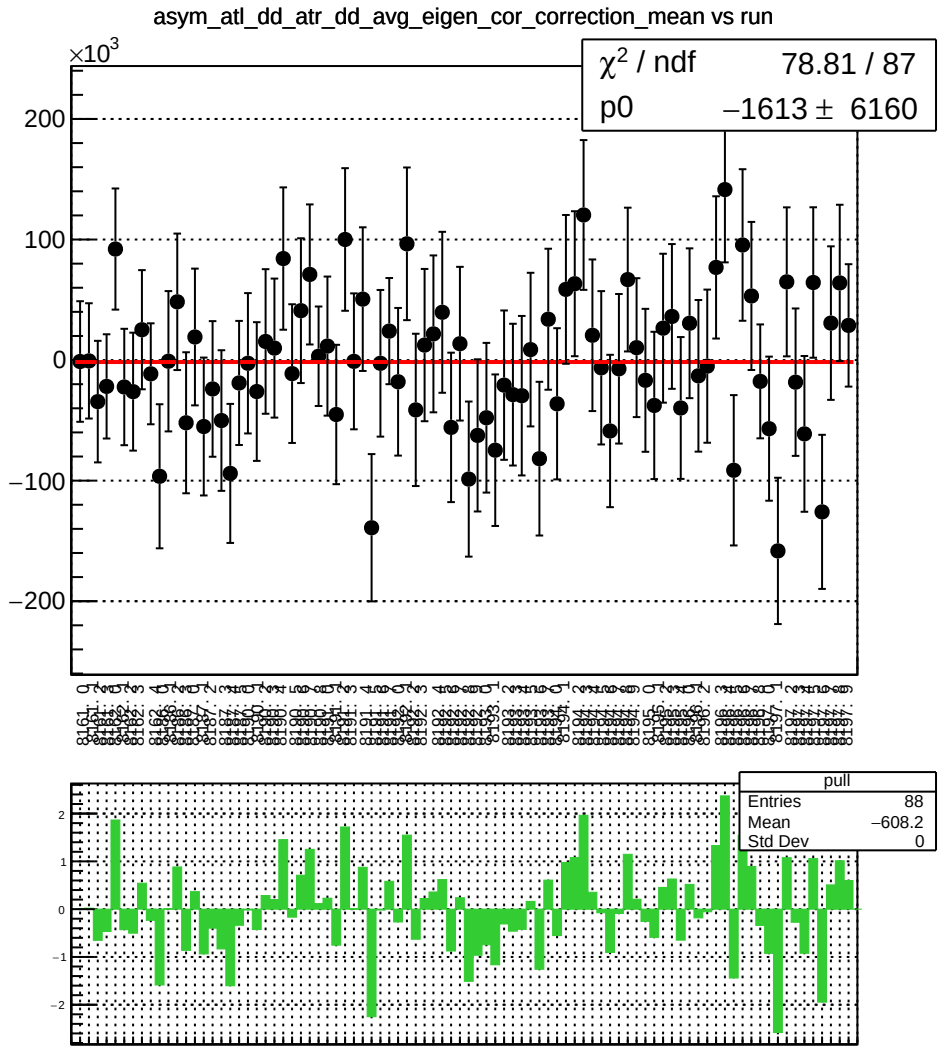

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.81 / 87
p0 −1613 ± 6160
200
100
0
−100
−200
pull
Entries 88
Mean −608.2
Std Dev 0
2
1
0
−1
−2

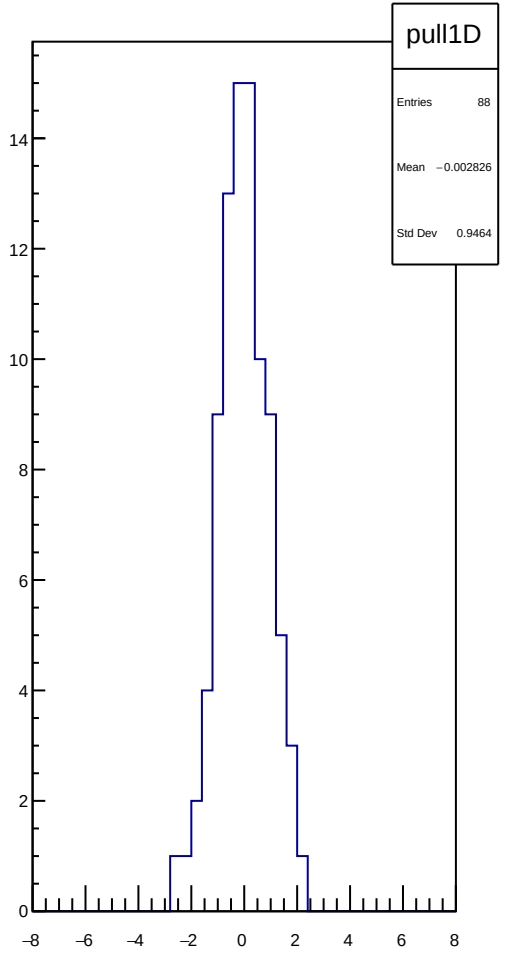

pull1D
Entries 88
Mean −0.002826
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

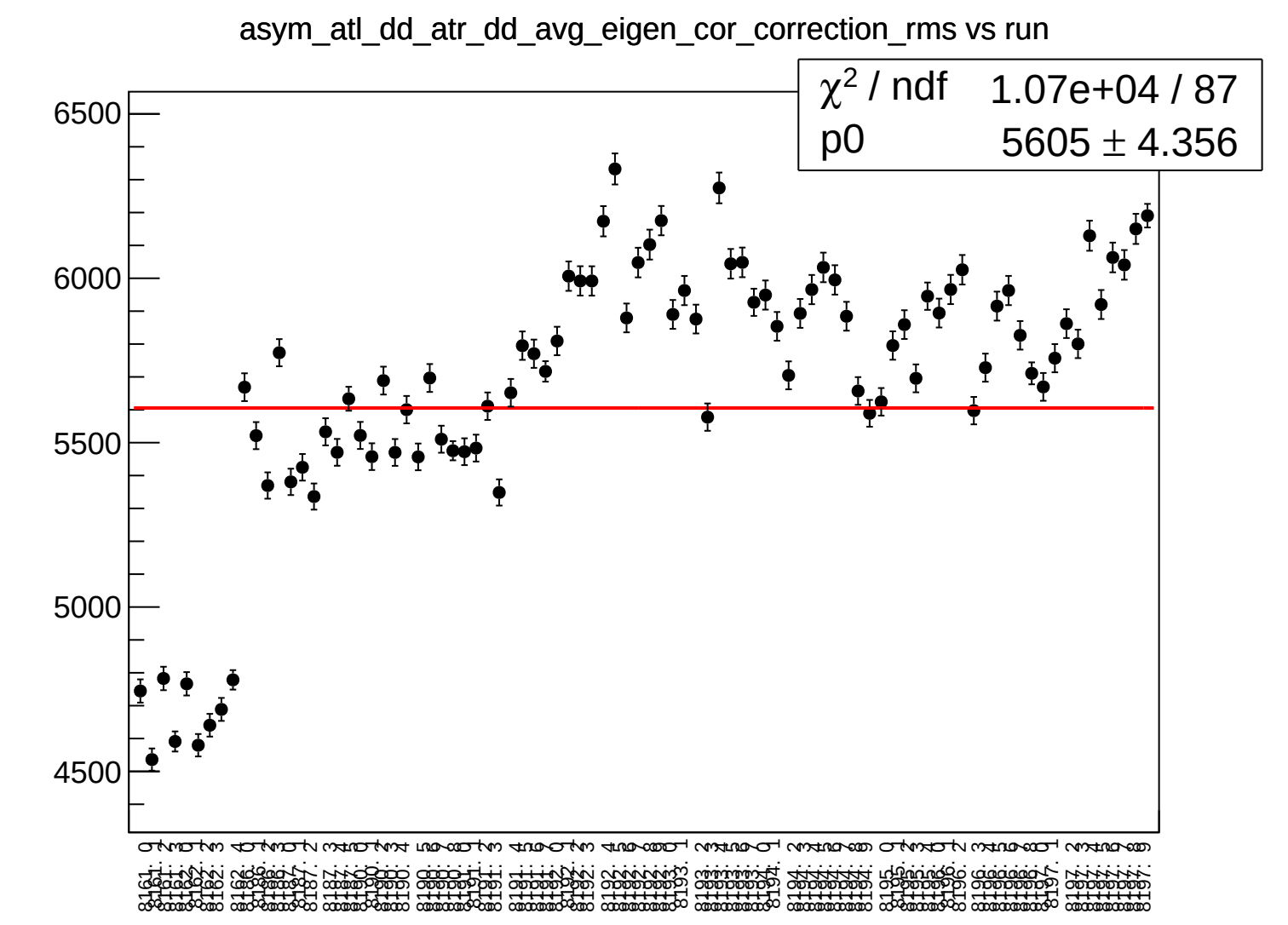

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 87
p0 5605 ± 4.356
6500
6000
5500
5000
4500

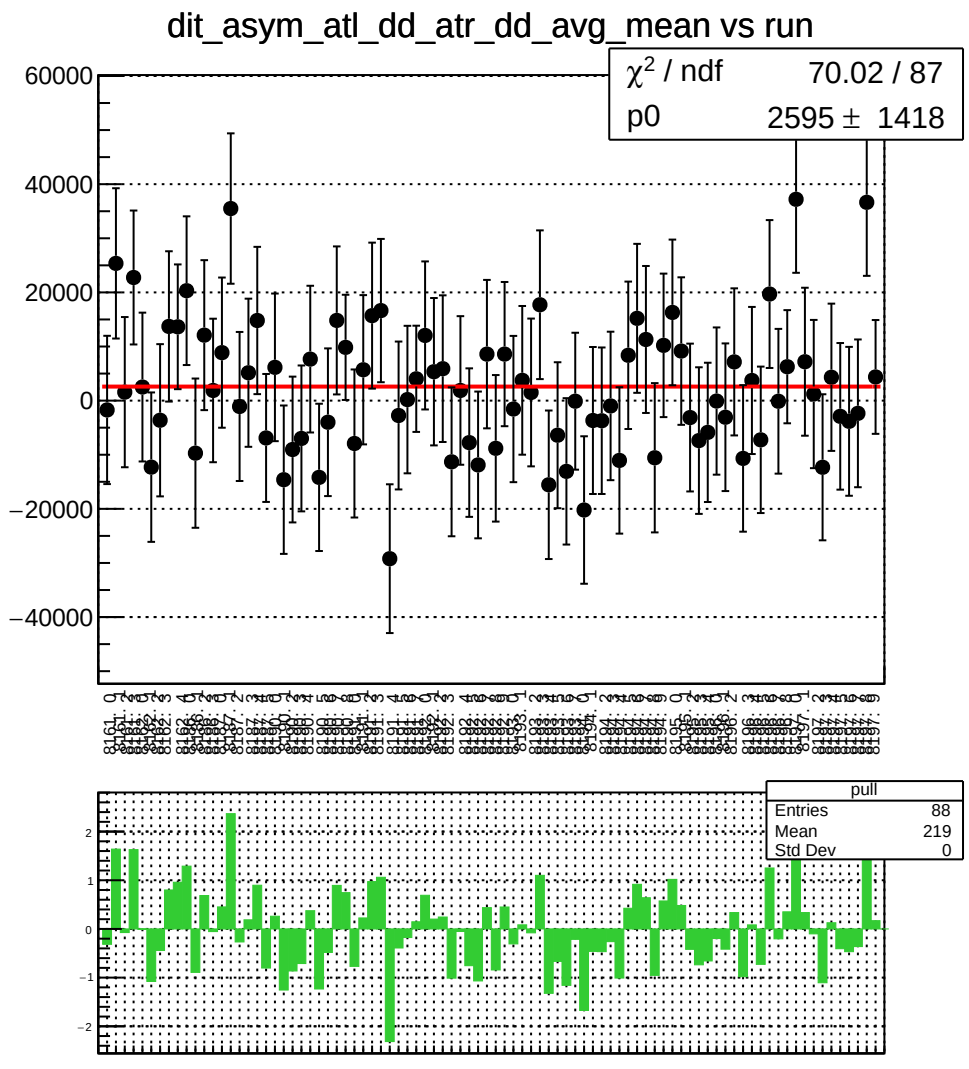

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 68.85 / 87
p0 2213 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 190.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007115
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

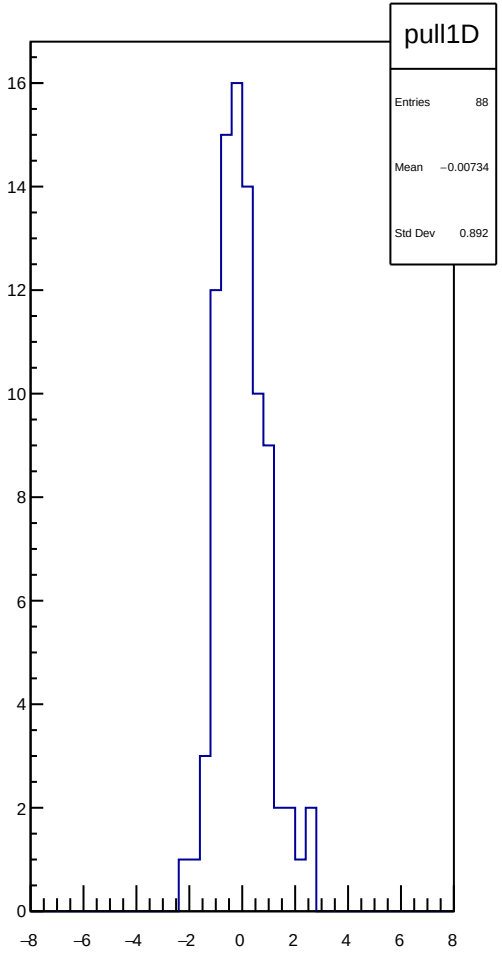

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 181.8 / 87
p0 1286 ± 0.9962
1340
1320
1300
1280
1260
1240

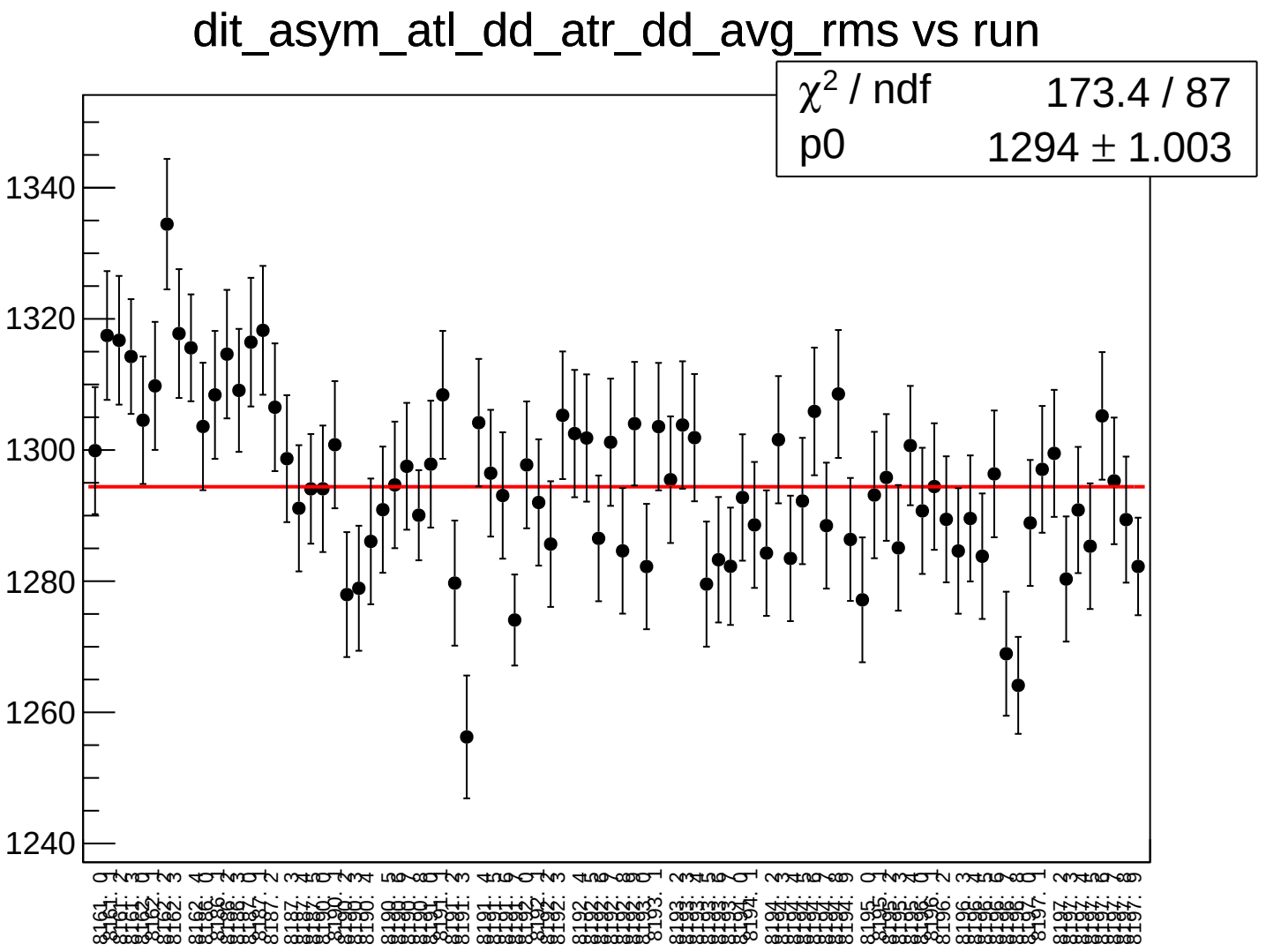

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.81 / 87
p0 −1613 ± 6160
200
100
0
−100
−200
pull
Entries 88
Mean −608.2
Std Dev 0
2
1
0
−1
−2

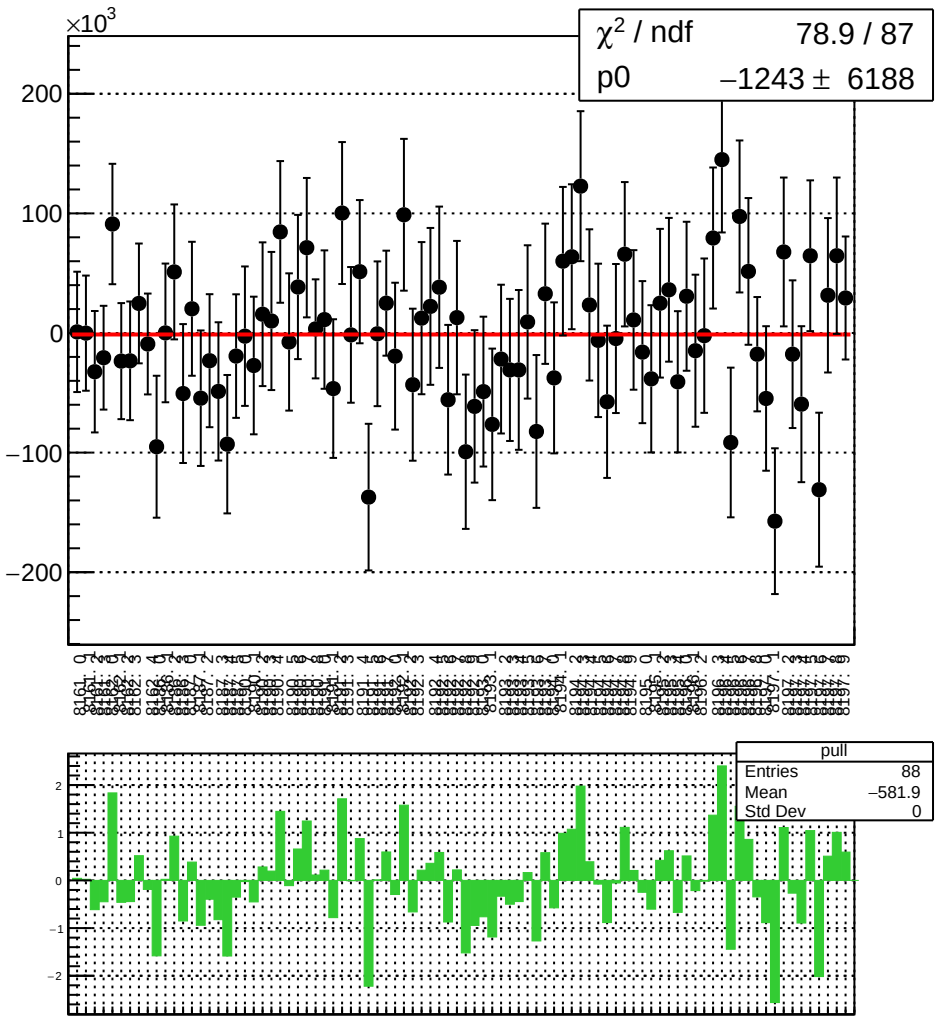

pull1D
Entries 88
Mean −0.002826
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

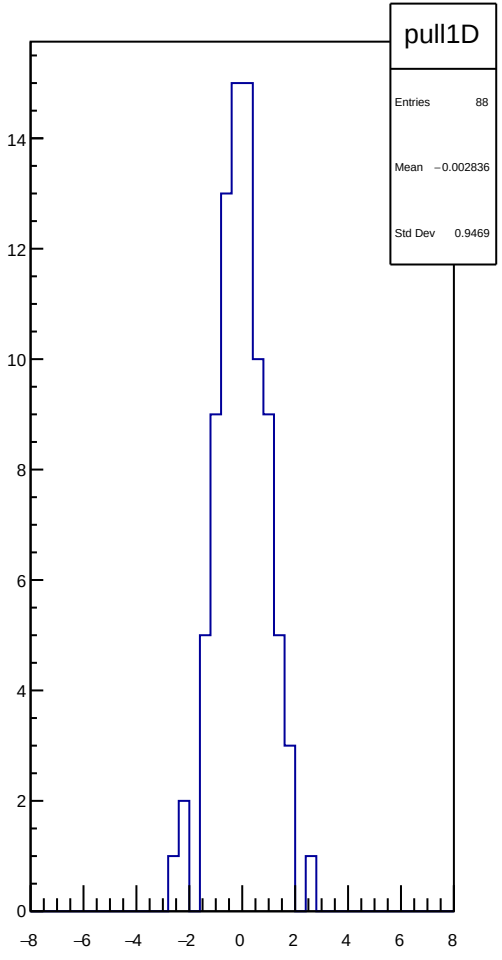

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 87
p0 5605 ± 4.356
6500
6000
5500
5000
4500

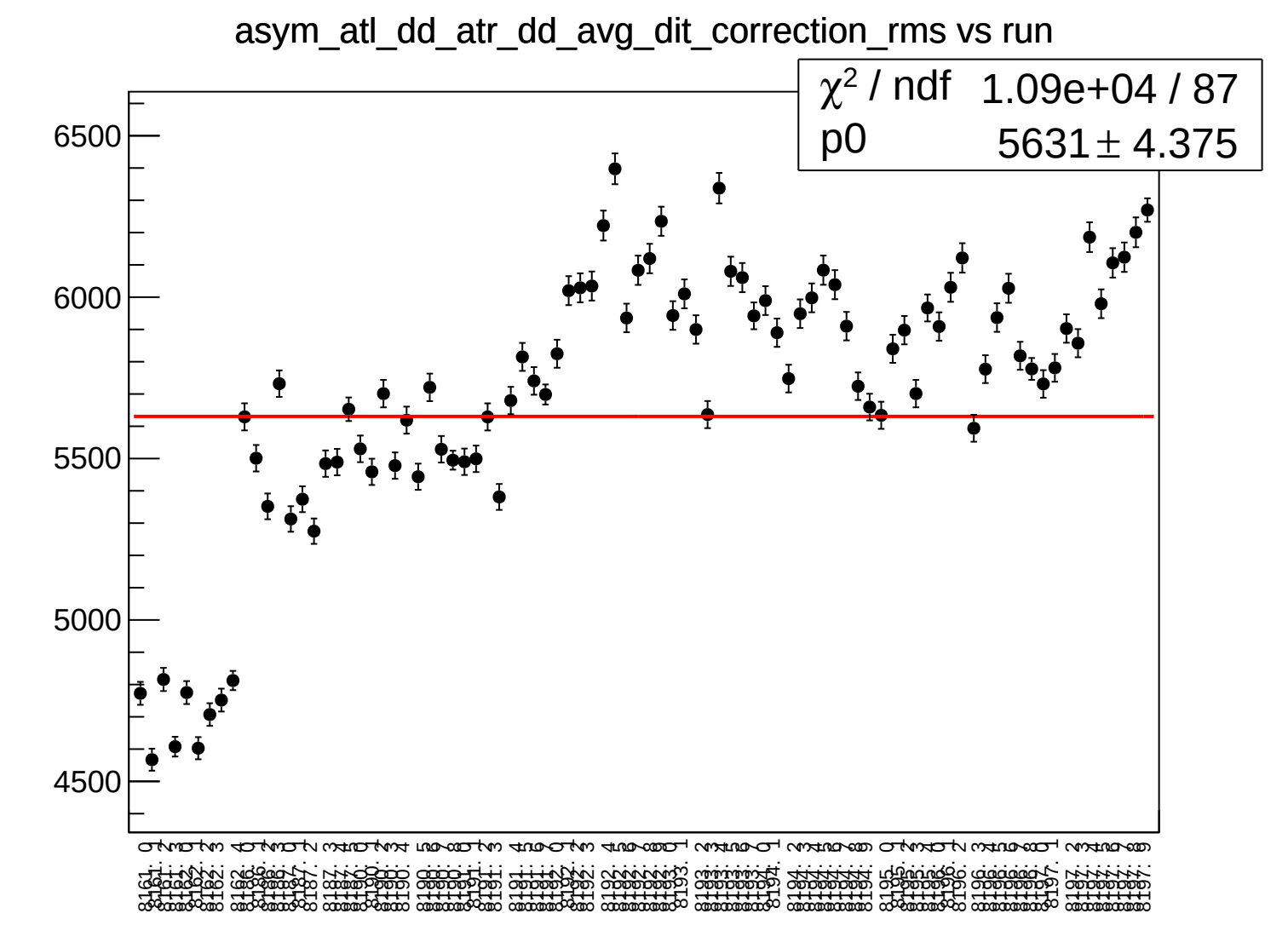

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 70.02 / 87
p0 2595 ± 1418
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 219
Std Dev 0
2
1
0
−1
−2

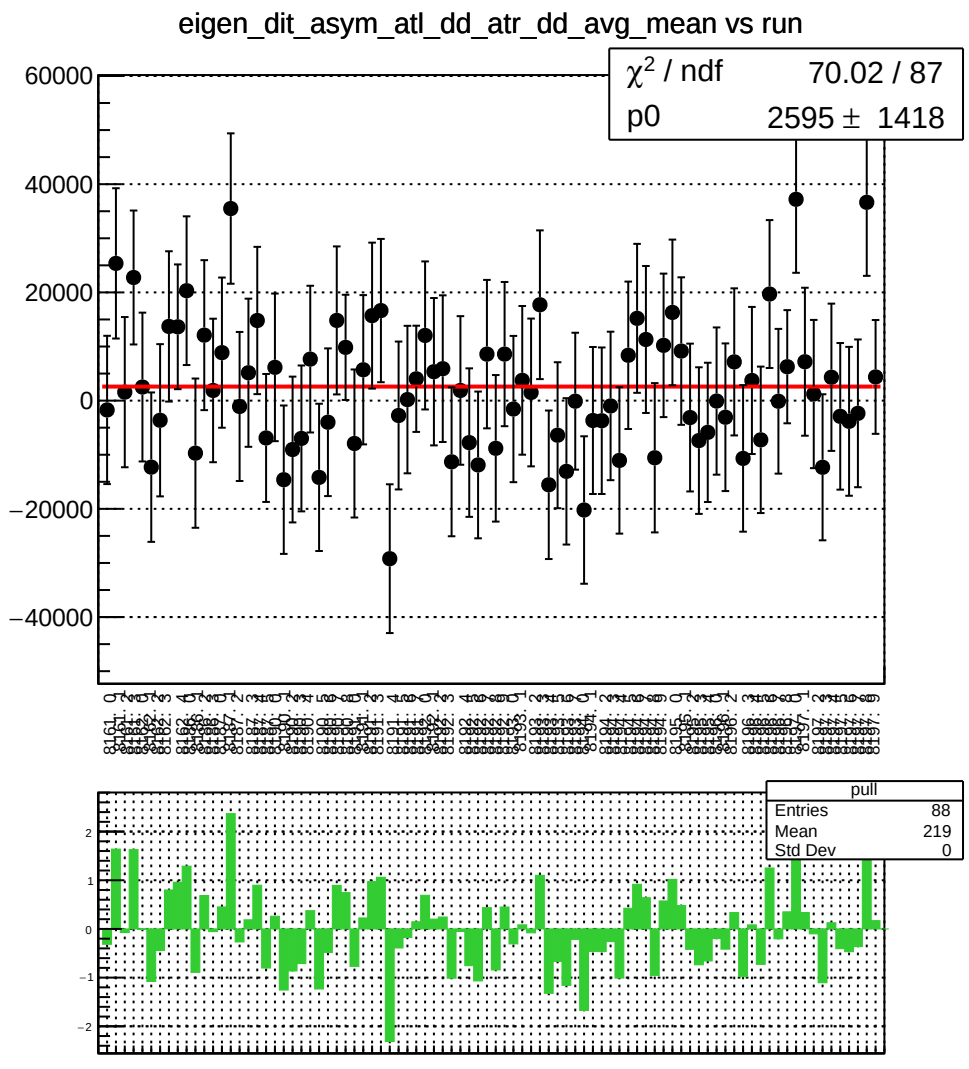

pull1D
Entries 88
Mean −0.00734
Std Dev 0.892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

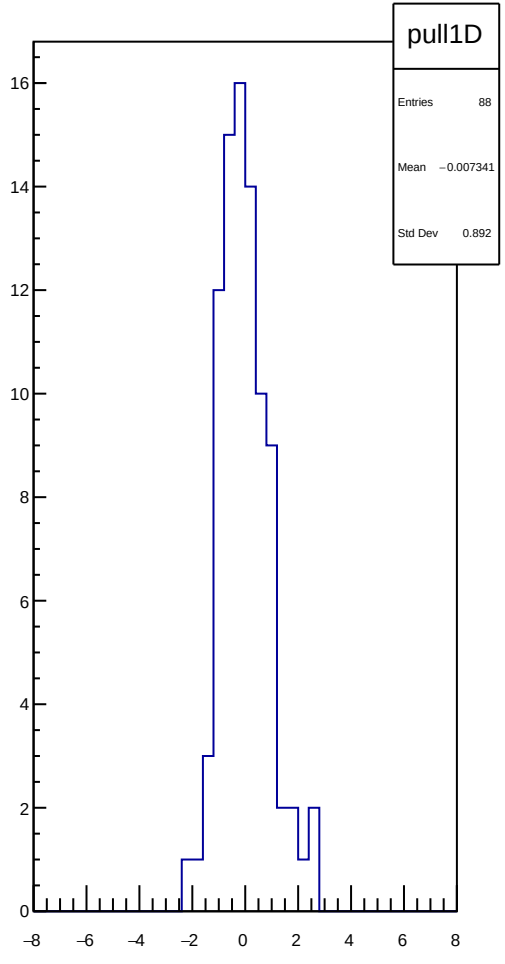

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 173.4 / 87
p0 1294 ± 1.003
1340
1320
1300
1280
1260
1240


asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 78.9 / 87
p0 −1243 ± 6188
200
100
0
−100
−200
pull
Entries 88
Mean −581.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.002836
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.09e+04 / 87
p0 5631 ± 4.375
6500
6000
5500
5000
4500


eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 70.02 / 87
p0 2595 ± 1418
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 219
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.007341
Std Dev 0.892
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14
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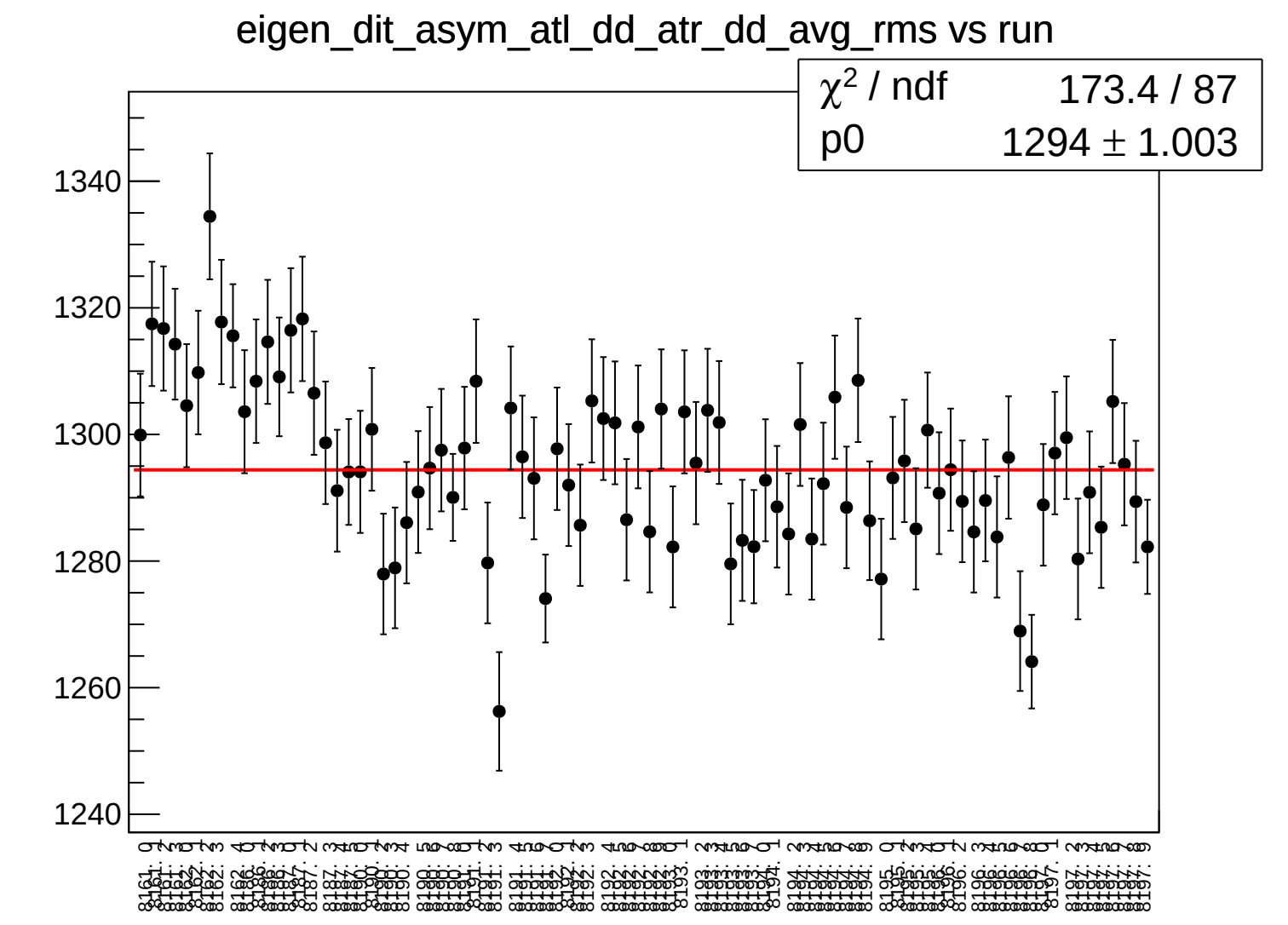
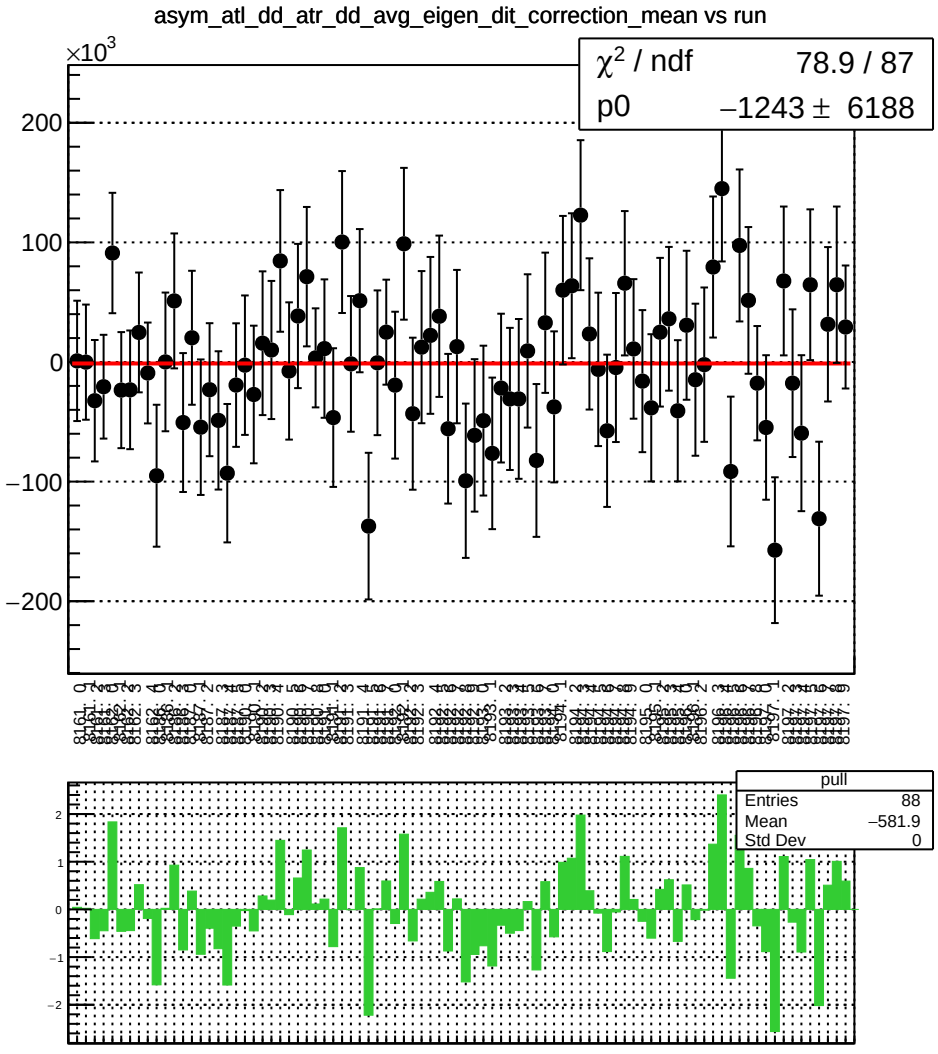
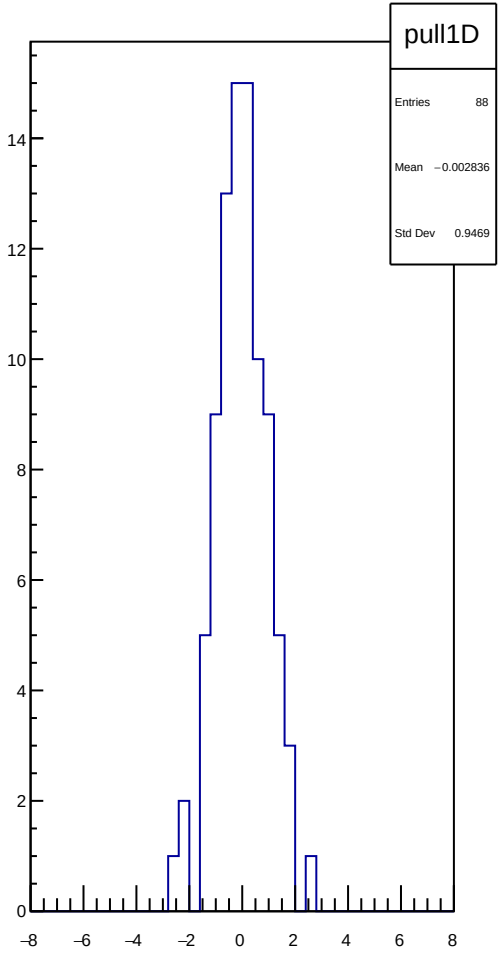
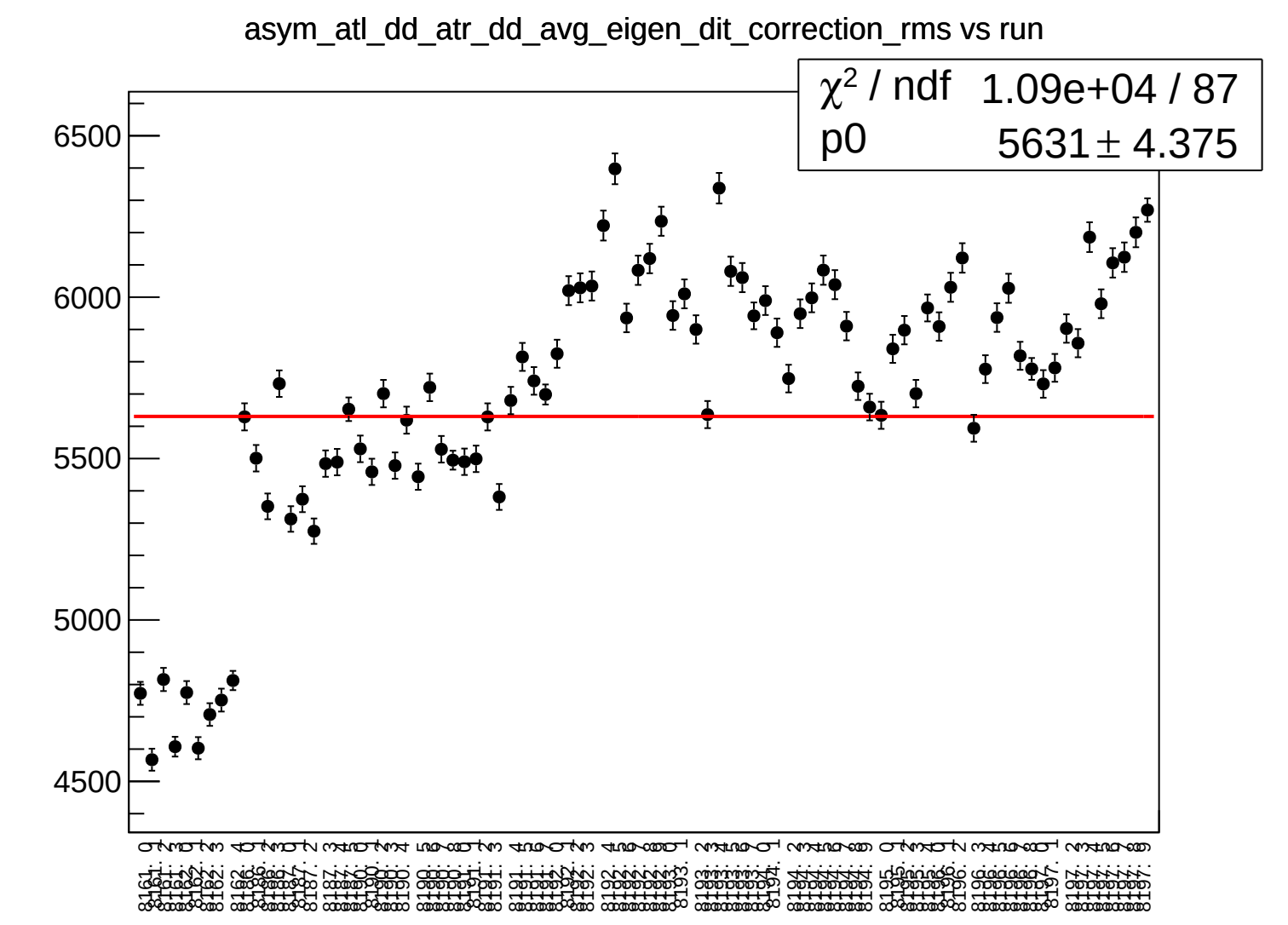
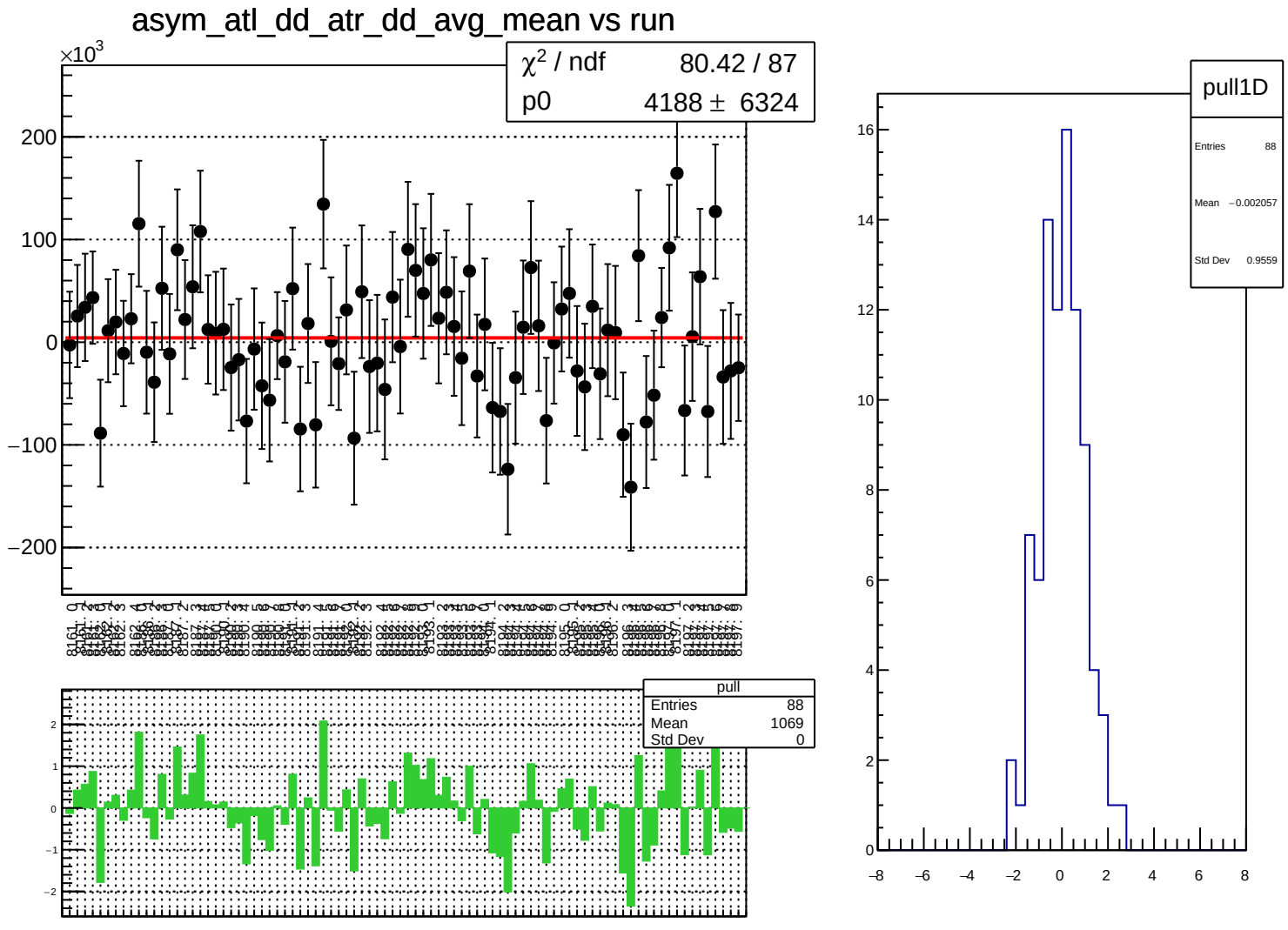
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

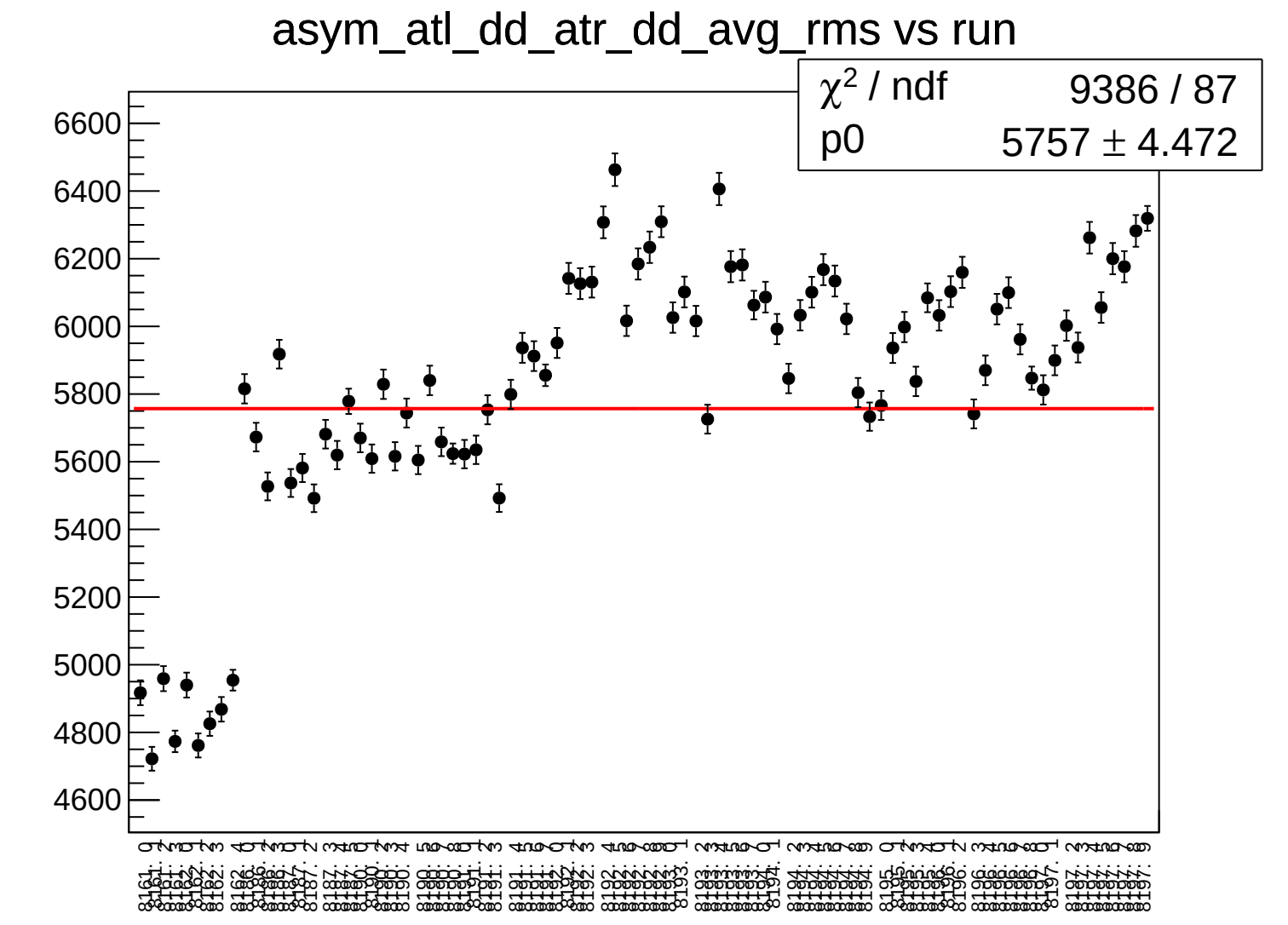

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 173.4 / 87
p0 1294 ± 1.003
1340
1320
1300
1280
1260
1240

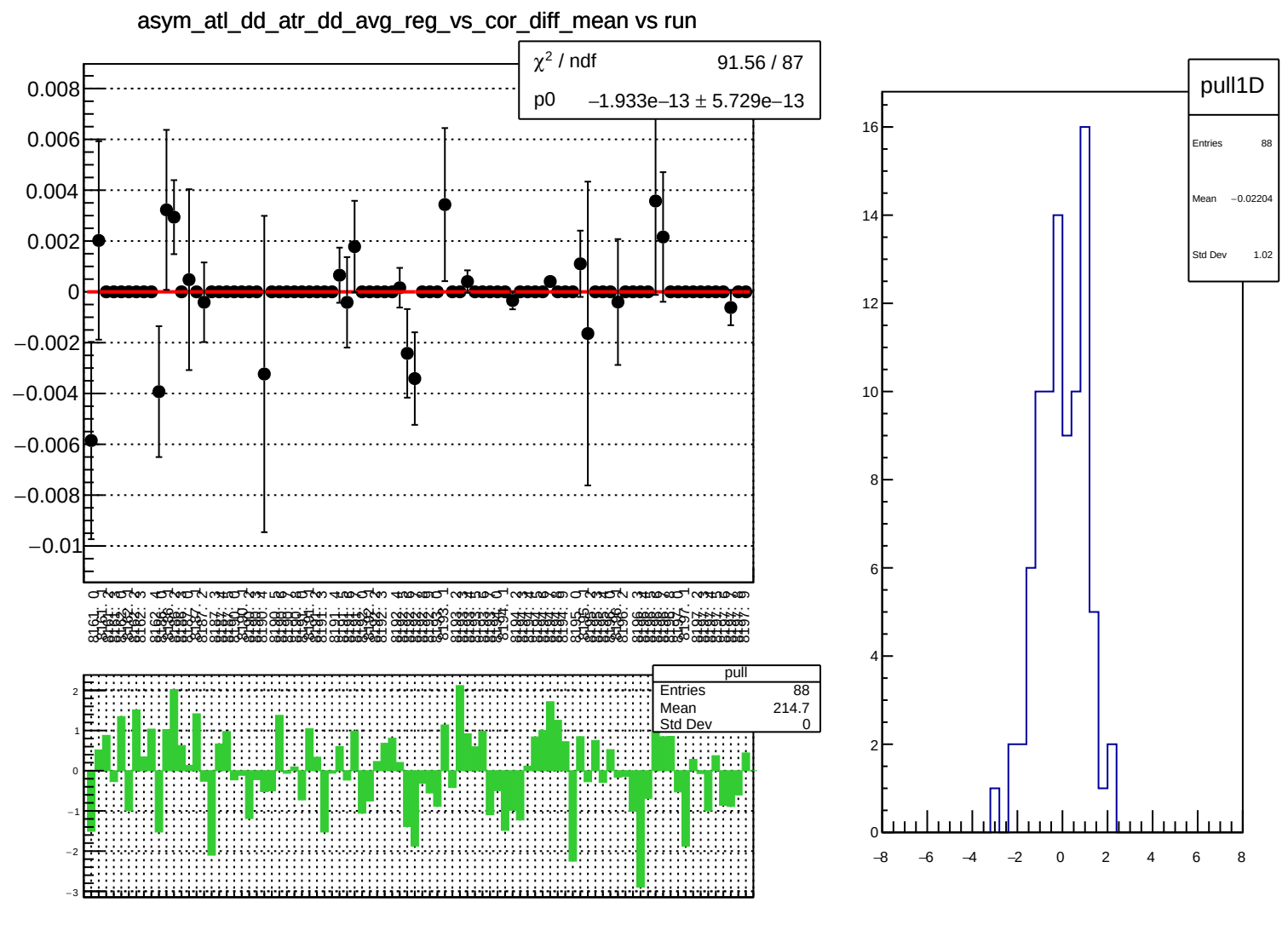

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.9 / 87
p0 −1243 ± 6188
200
100
0
−100
−200
pull
Entries 88
Mean −581.9
Std Dev 0
2
1
0
−1
−2

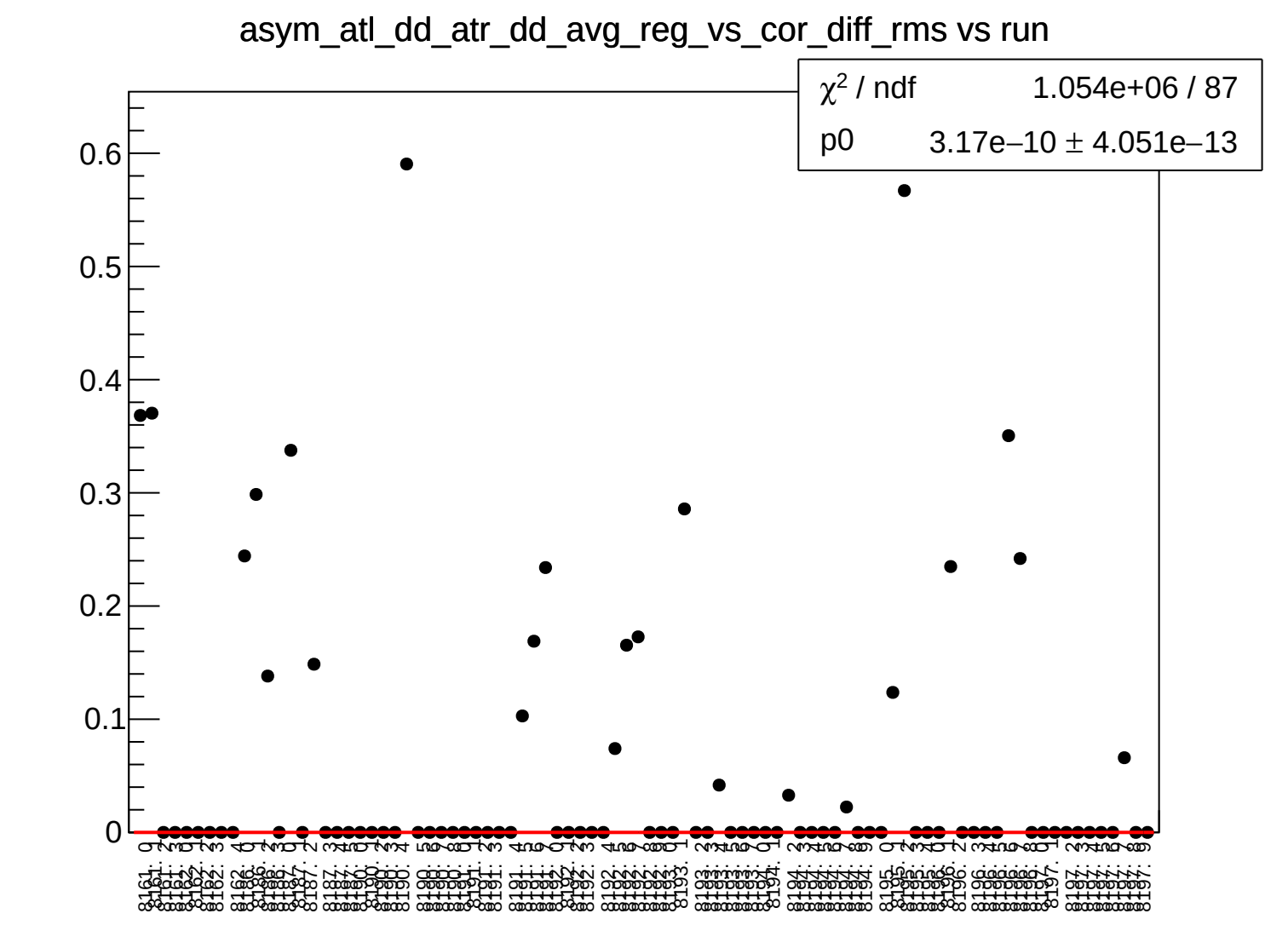

pull1D
Entries 88
Mean −0.002836
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

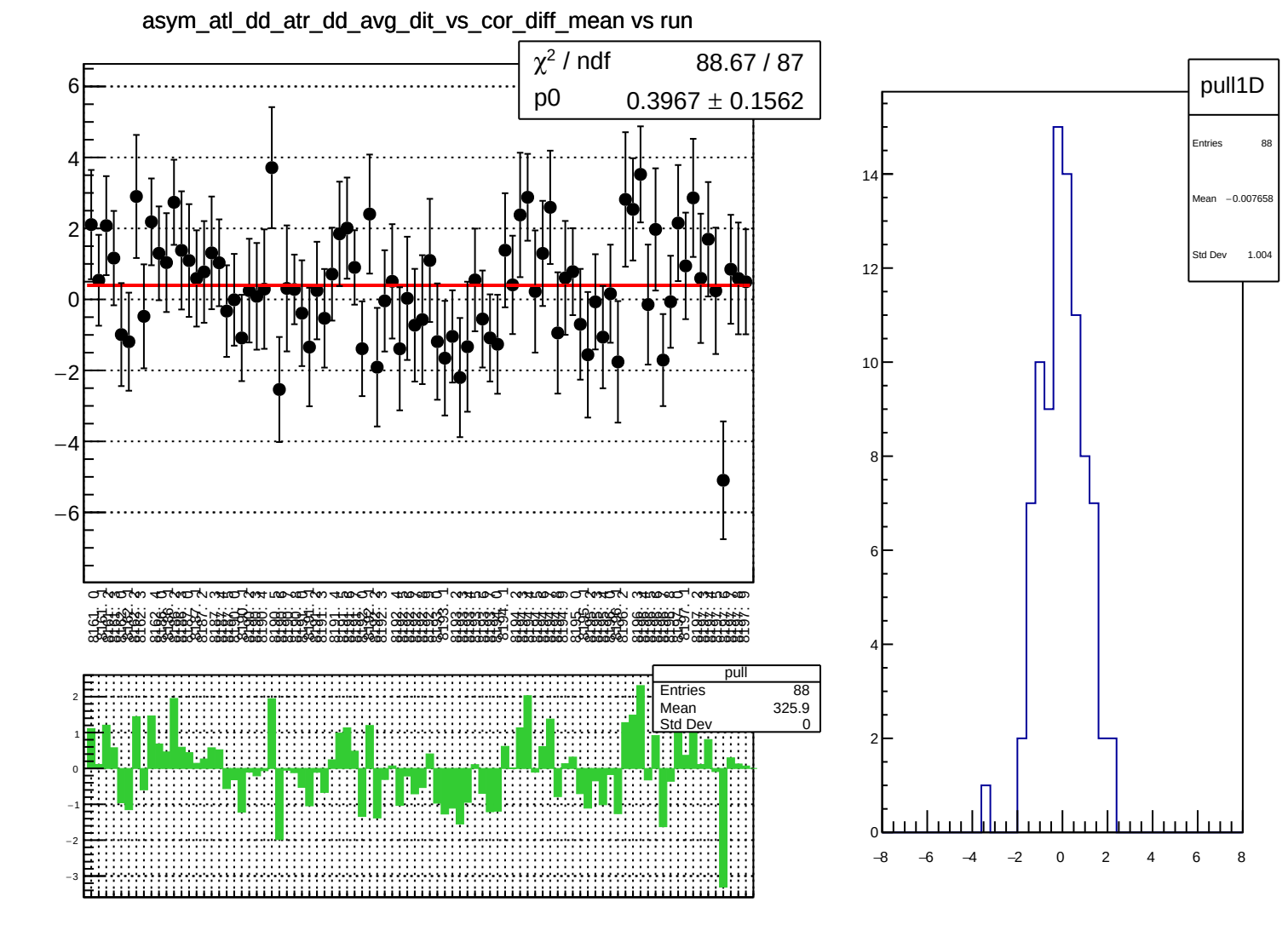

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.09e+04 / 87
p0 5631 ± 4.375
6500
6000
5500
5000
4500

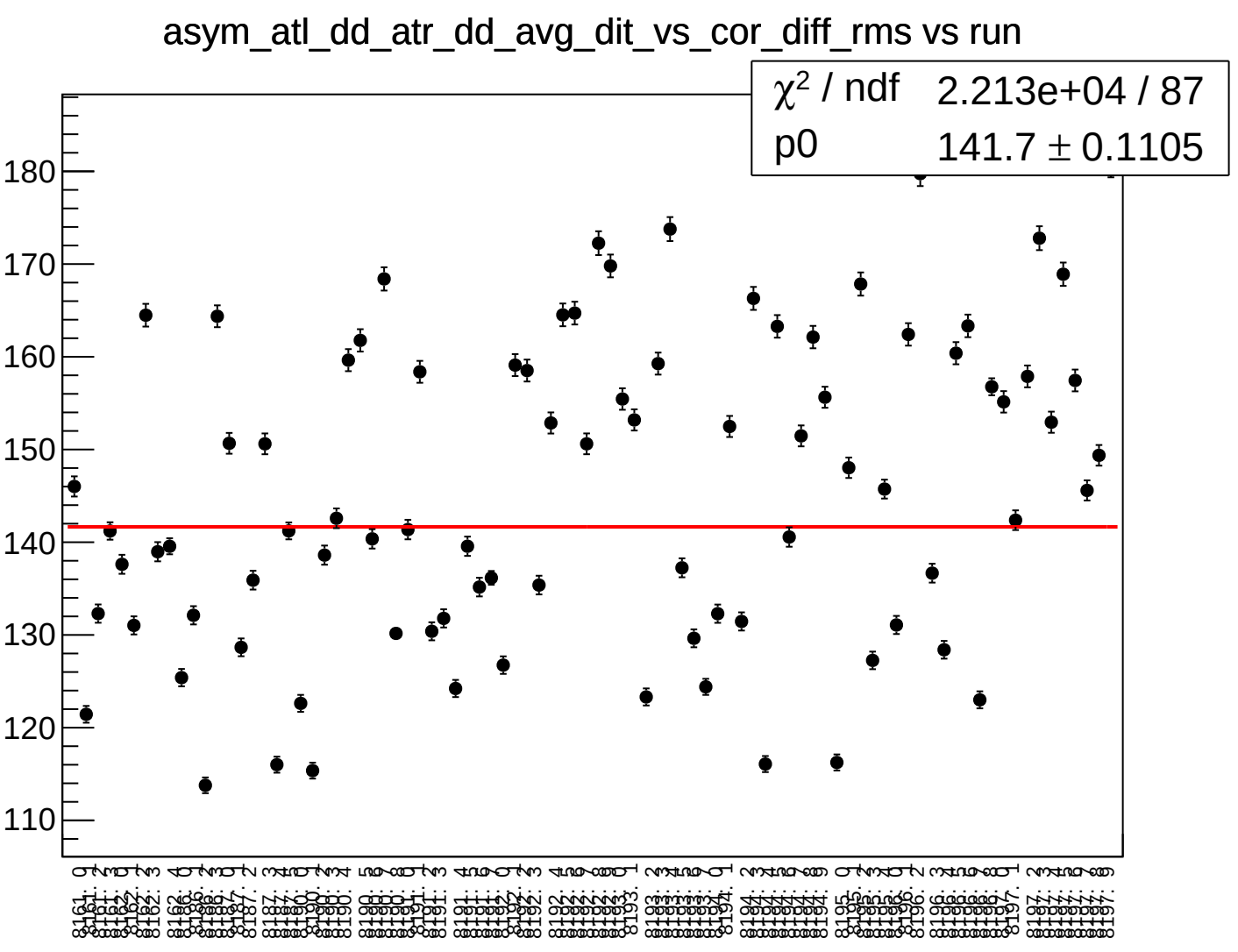

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 80.42 / 87
p0 4188 ± 6324
200
100
0
−100
−200
pull
Entries 88
Mean 1069
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002057
Std Dev 0.9559
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

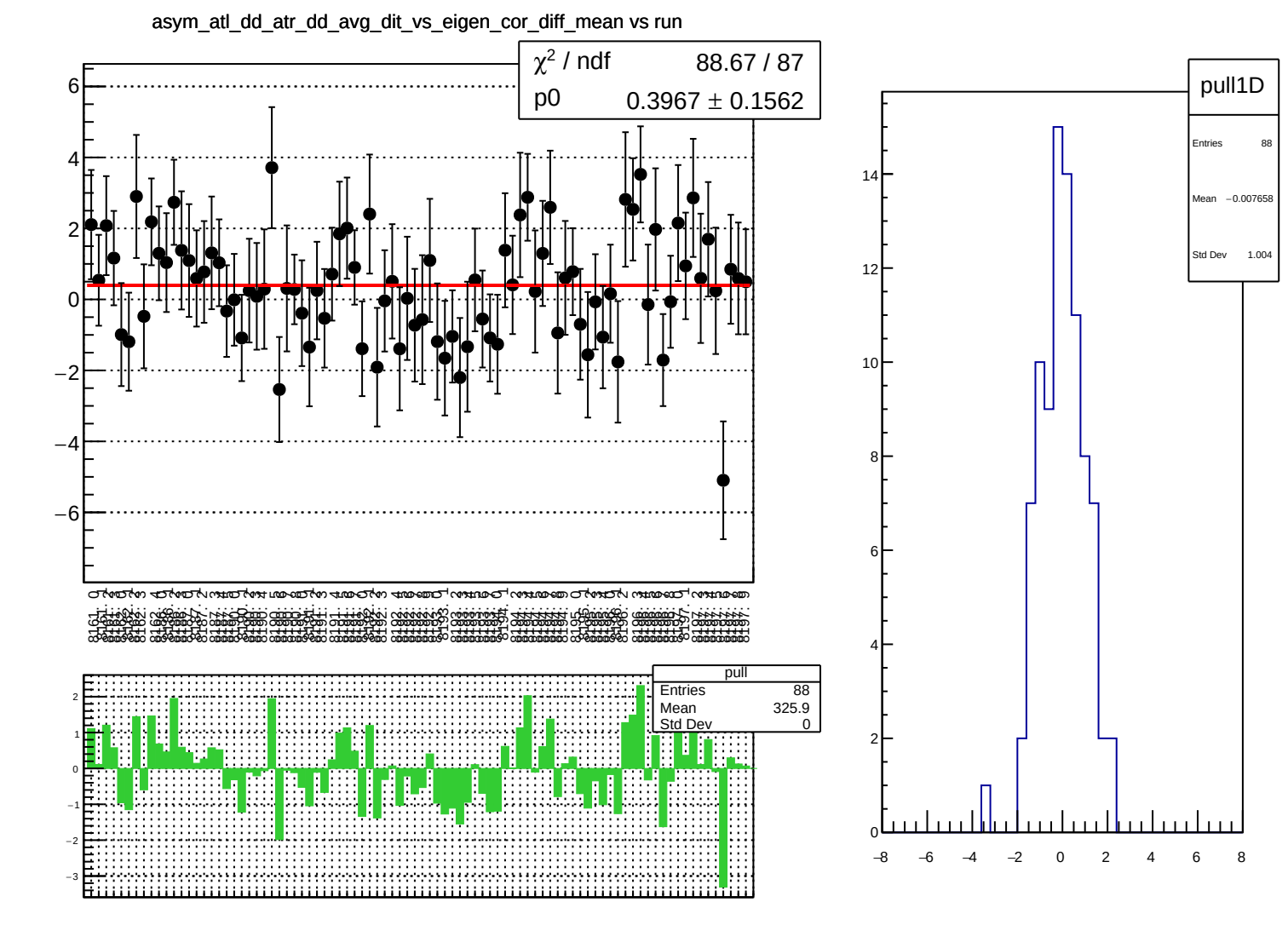

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 9386 / 87
p0 5757 ± 4.472
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

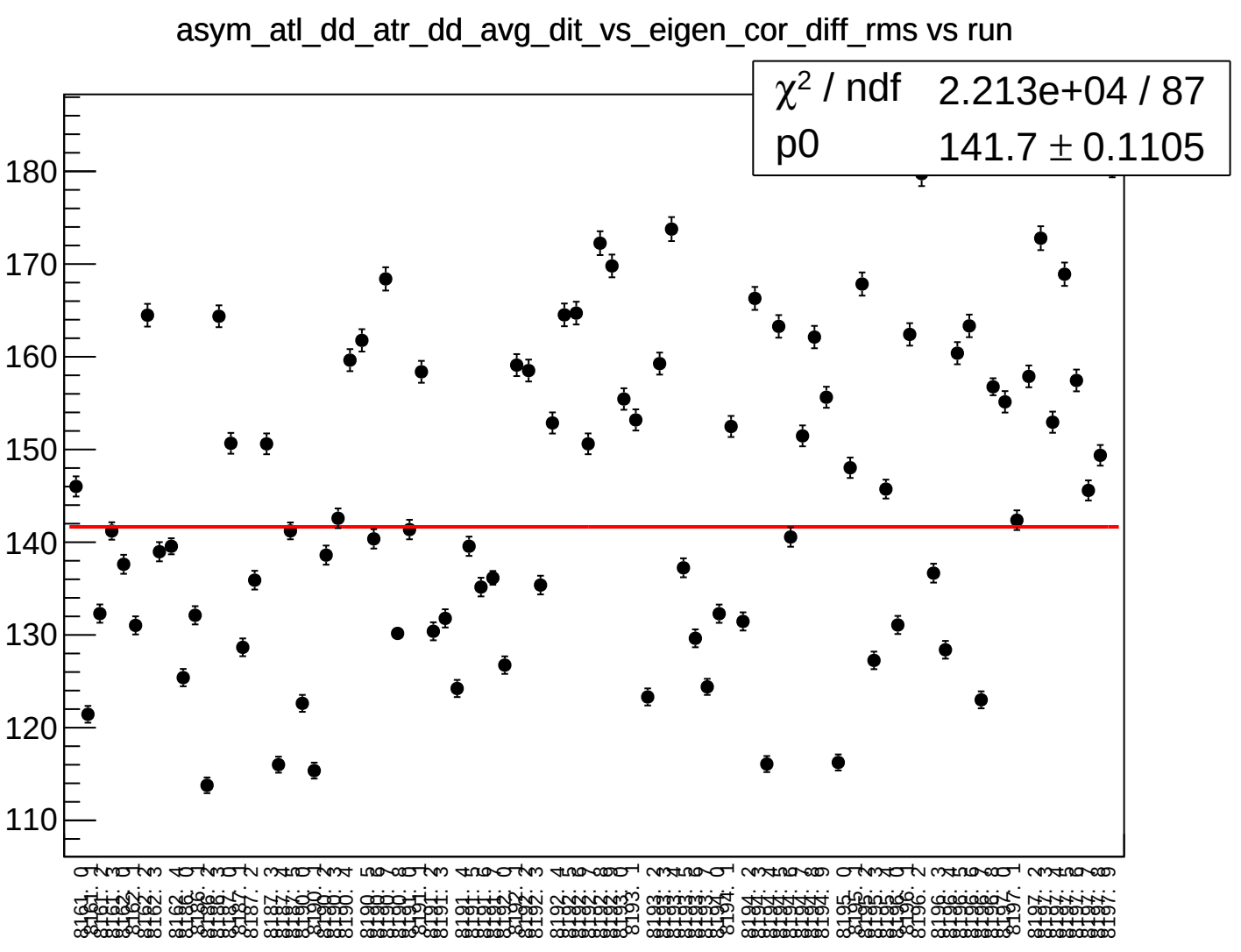

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 87
p0 −1.933e−13 ± 5.729e−13
pull
Entries 88
Mean 214.7
Std Dev 0
pull1D
Entries 88
Mean −0.02204
Std Dev 1.02

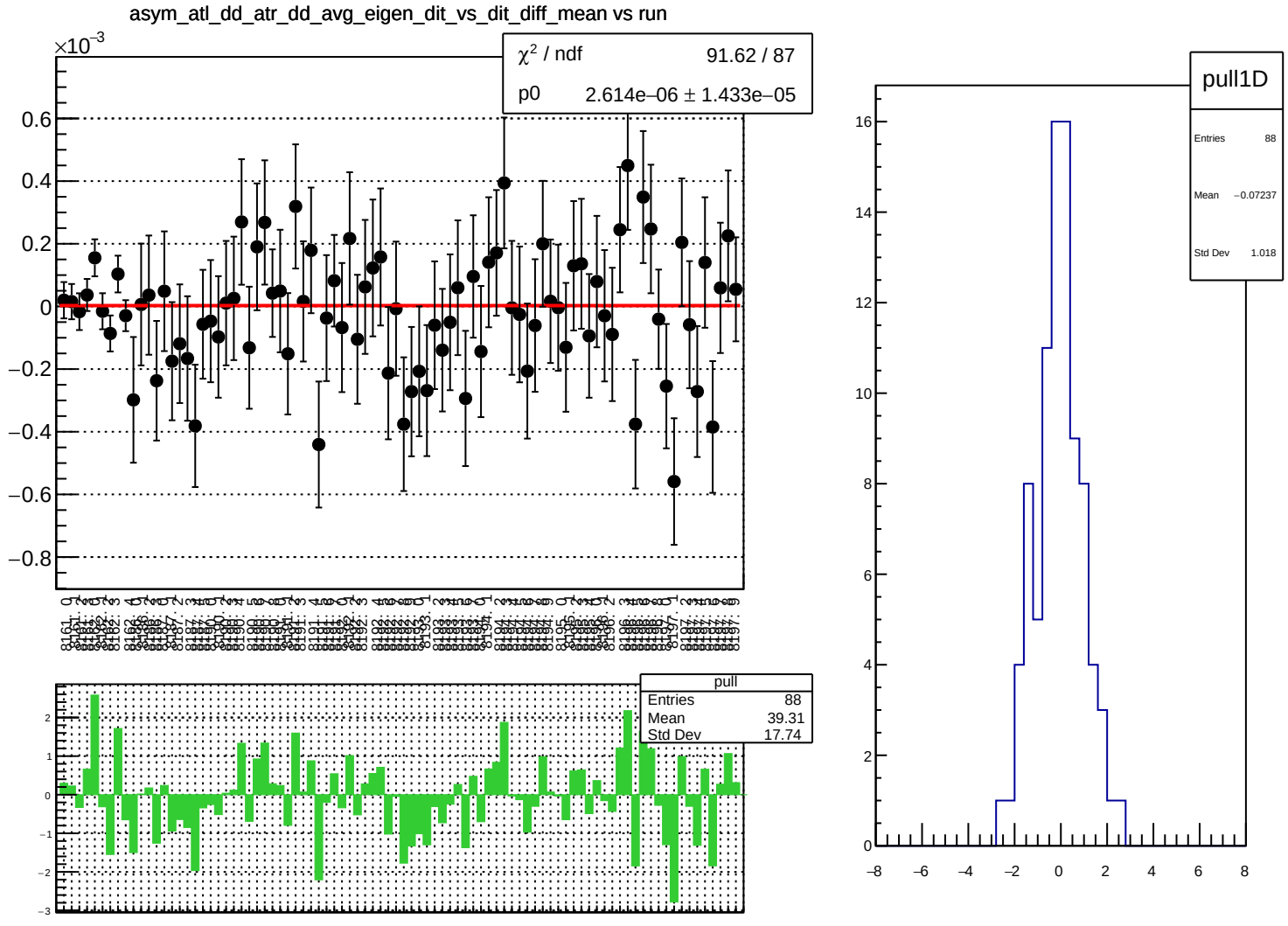

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.054e+06 / 87
p0 3.17e−10 ± 4.051e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

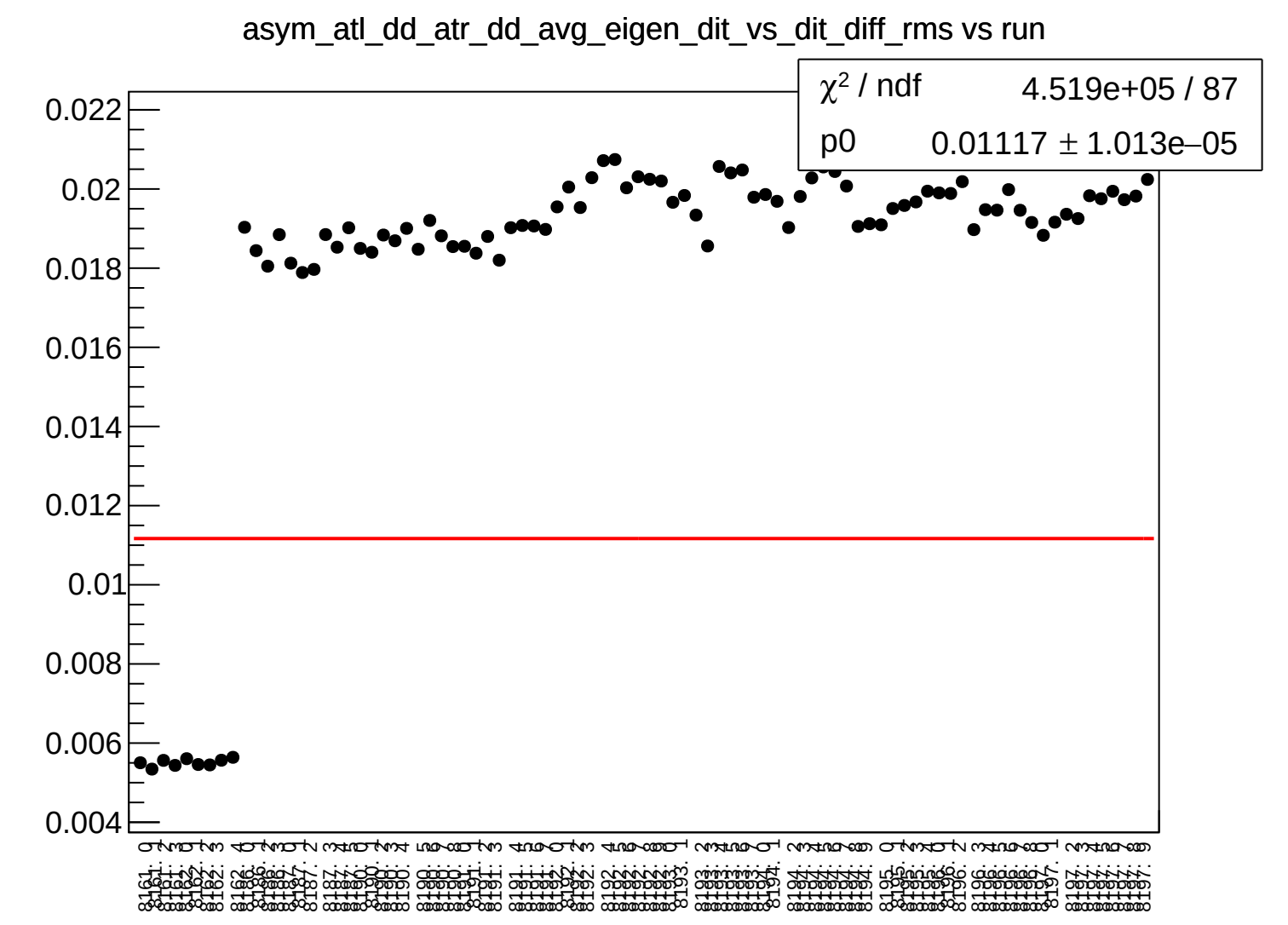

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.67 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.9
Std Dev 0
pull1D
Entries 88
Mean −0.007658
Std Dev 1.004

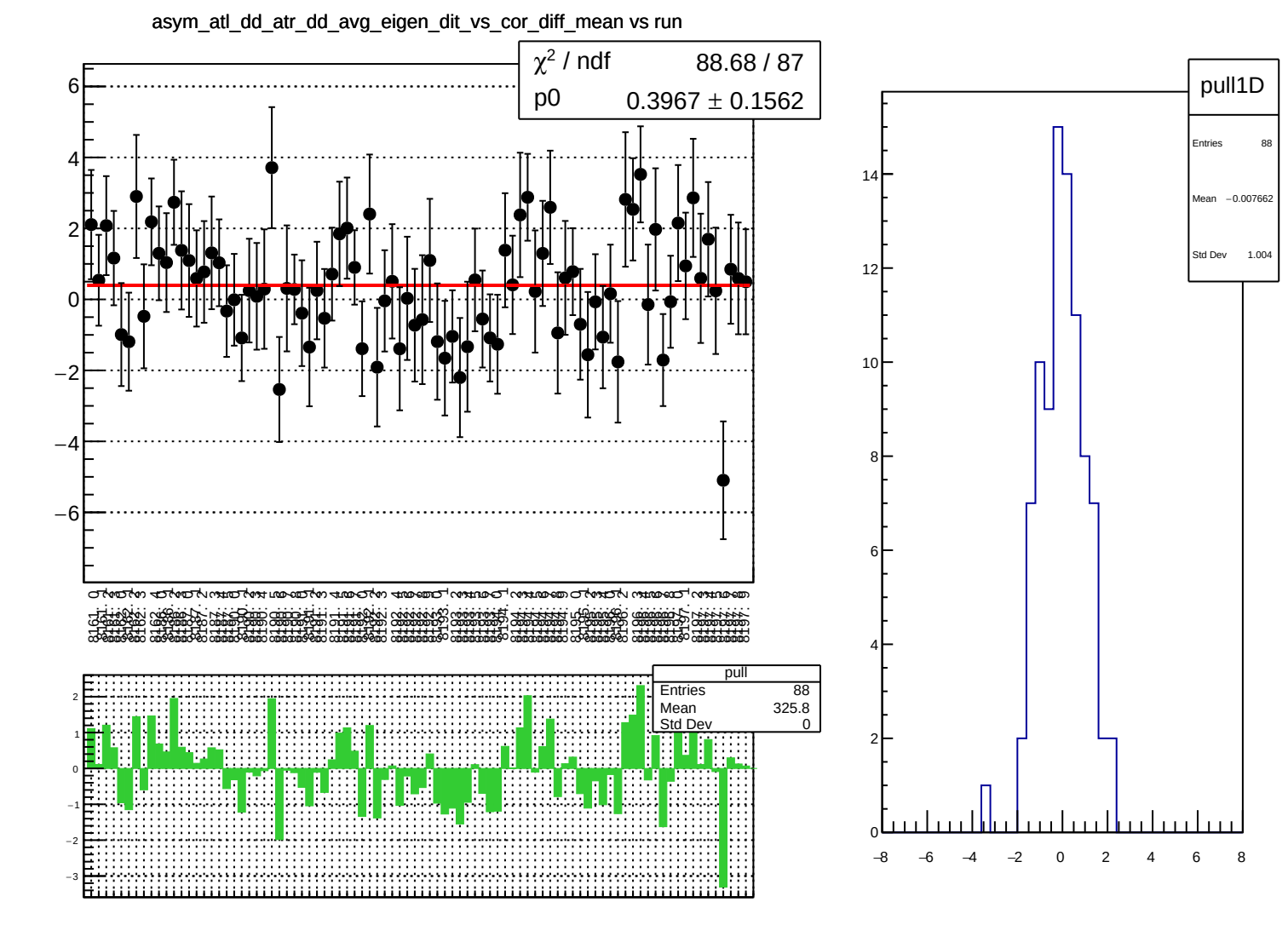

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

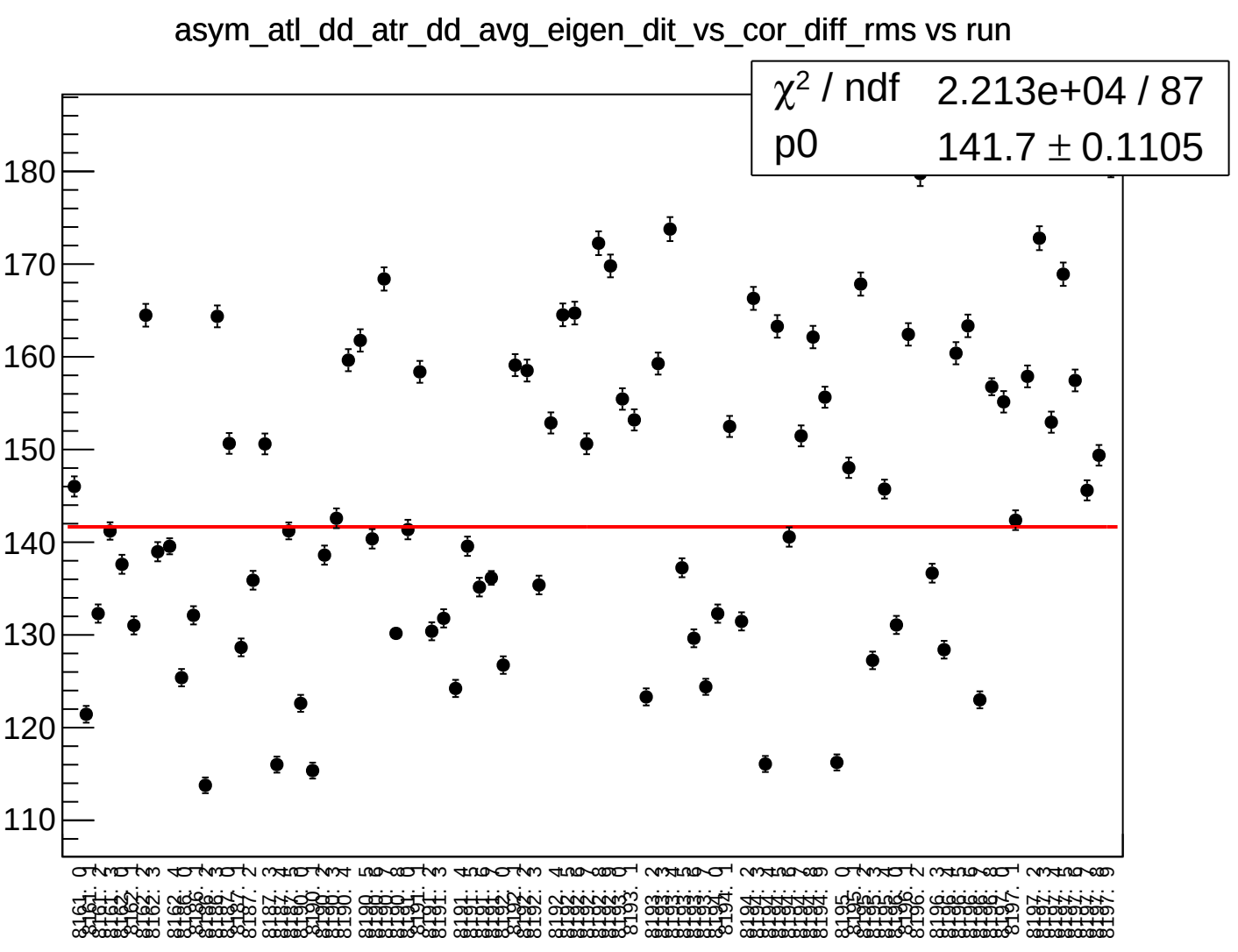

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.67 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.9
Std Dev 0
pull1D
Entries 88
Mean −0.007658
Std Dev 1.004

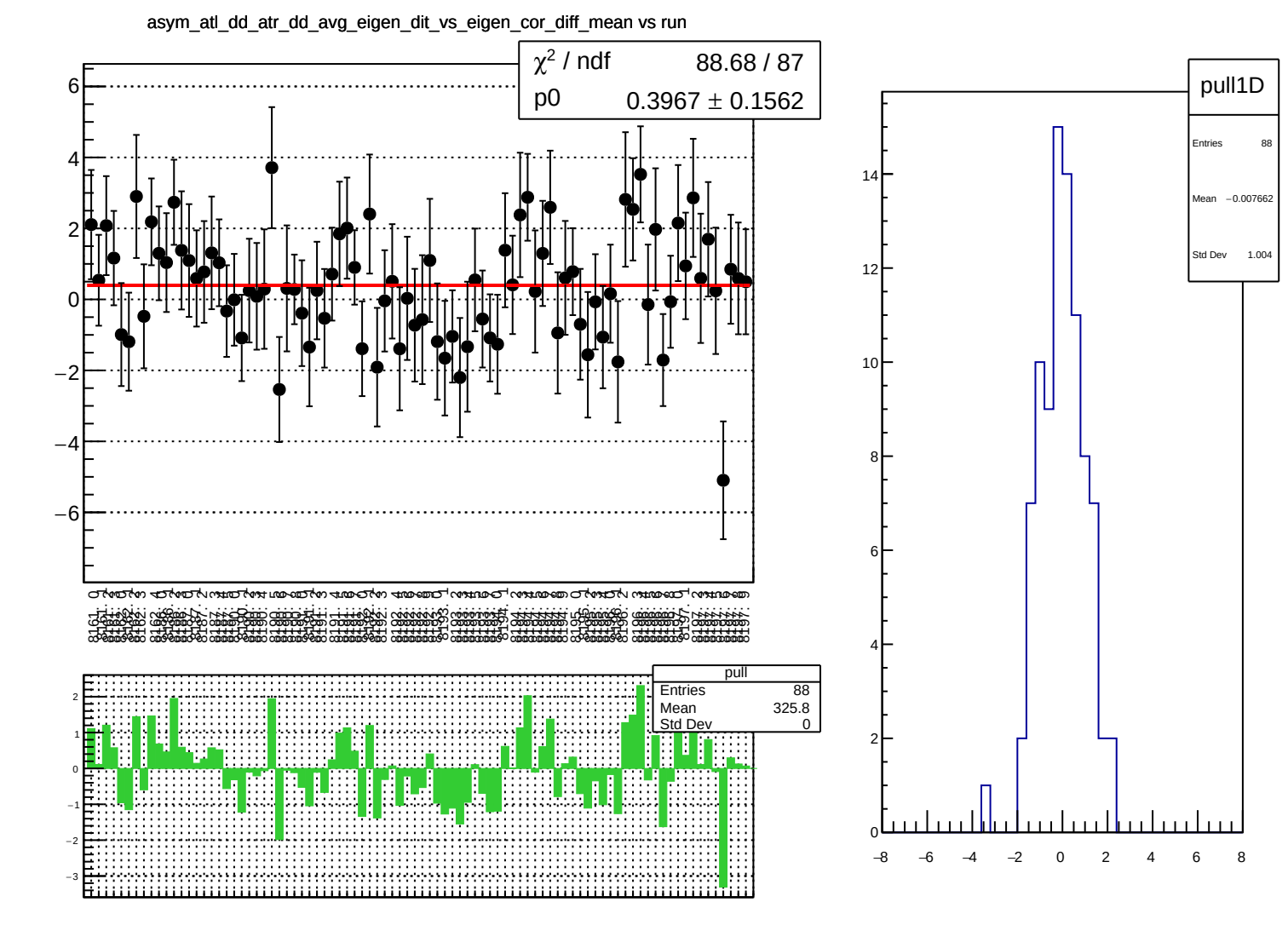

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

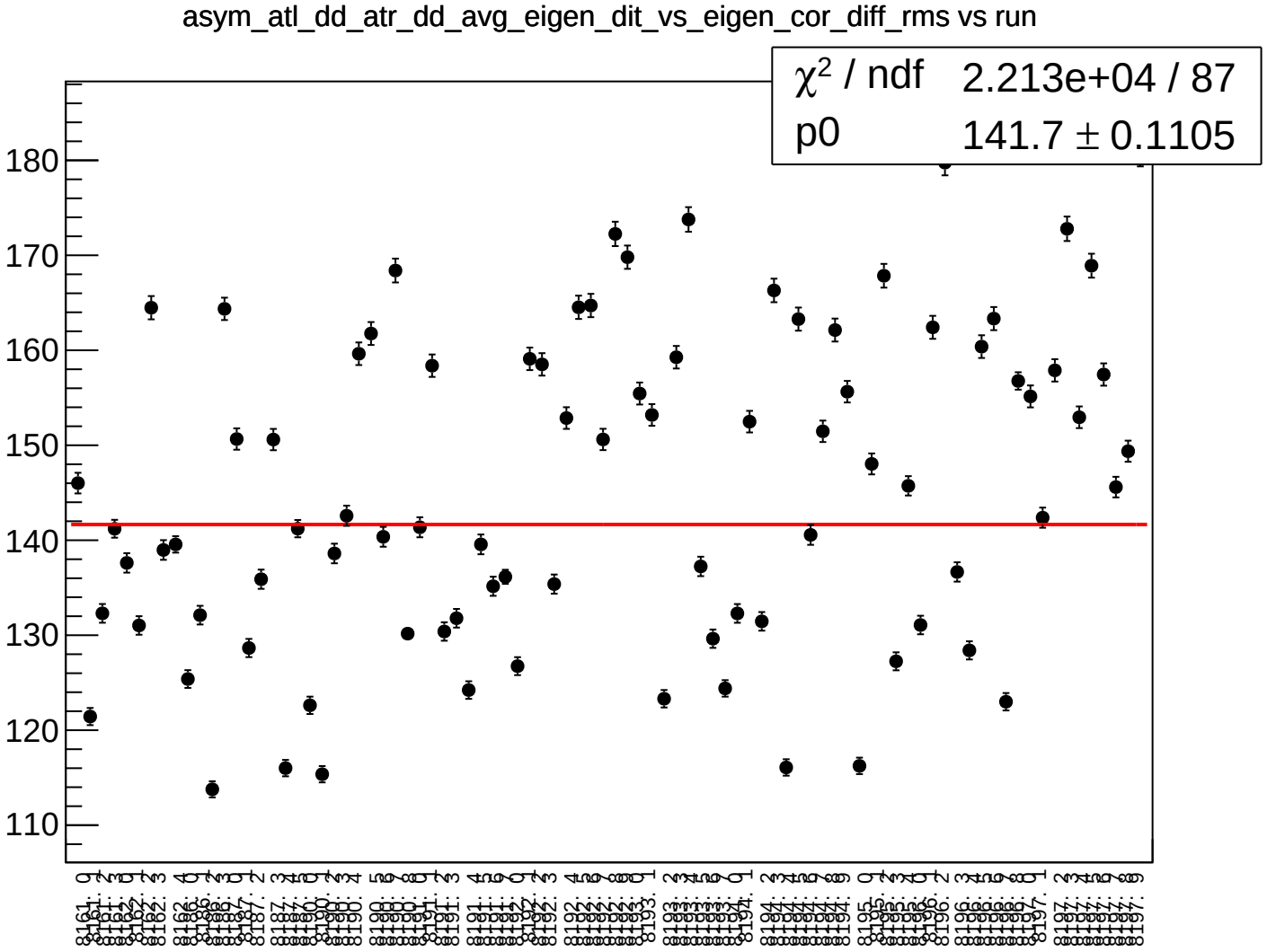

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.62 / 87
p0 2.614e−06 ± 1.433e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 88
Mean 39.31
Std Dev 17.74
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.07237
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

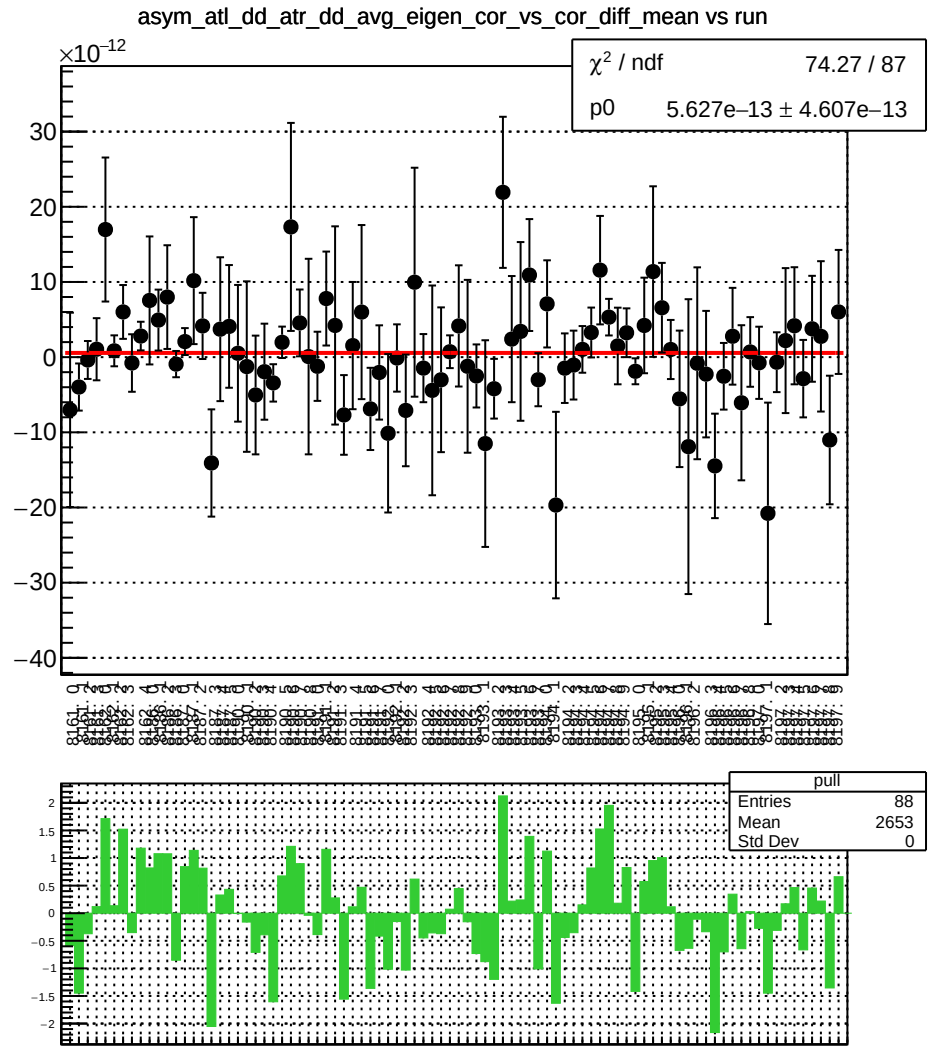

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.519e+05 / 87
p0 0.01117 ± 1.013e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

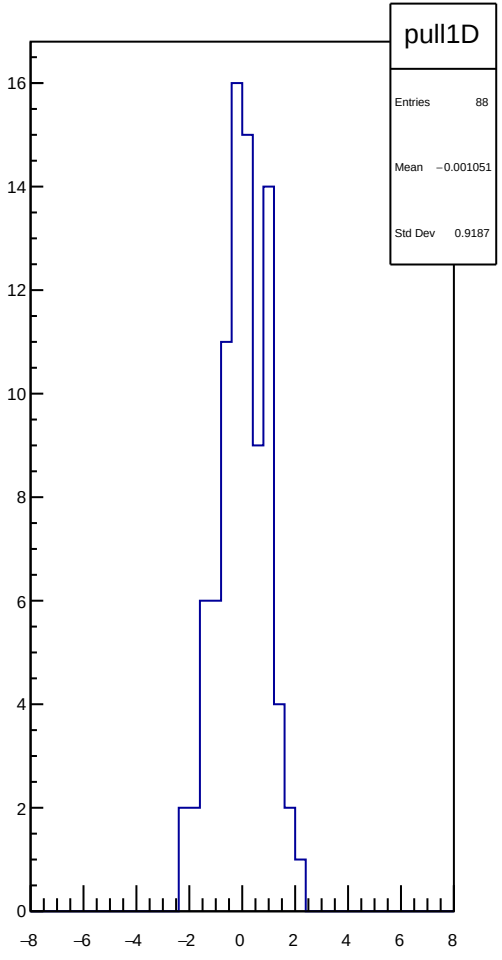

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.68 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.8
Std Dev 0
pull1D
Entries 88
Mean −0.007662
Std Dev 1.004

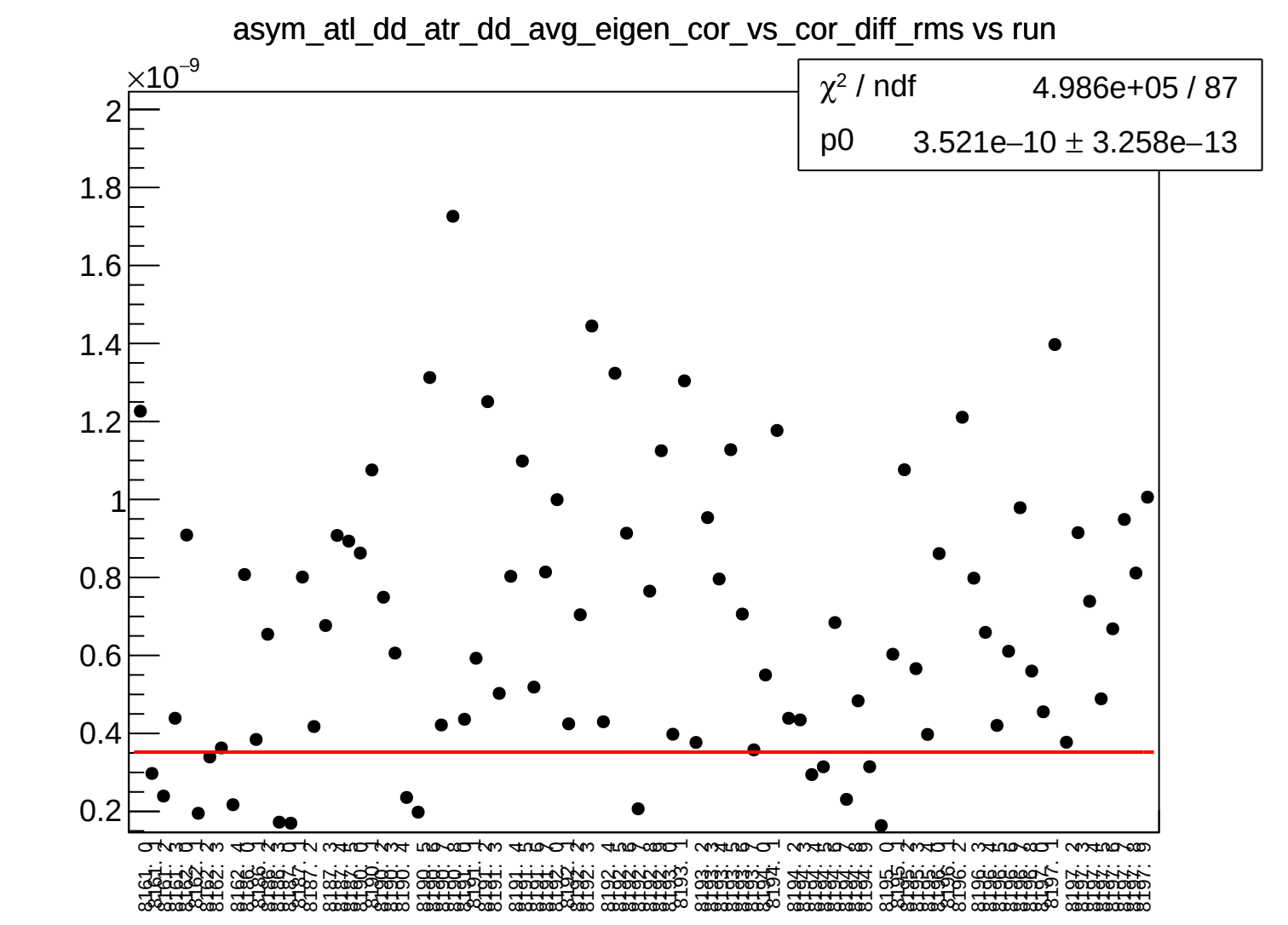

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

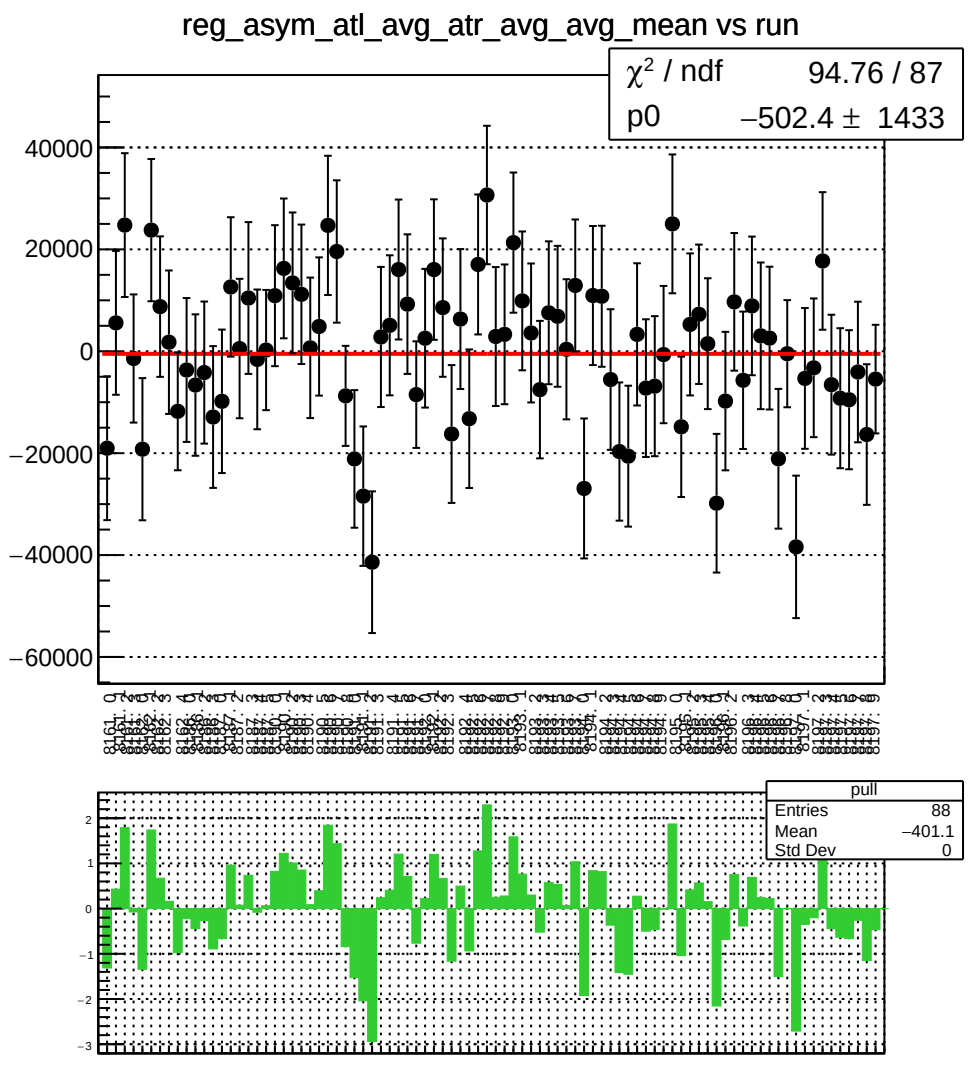

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.68 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.8
Std Dev 0
pull1D
Entries 88
Mean −0.007662
Std Dev 1.004

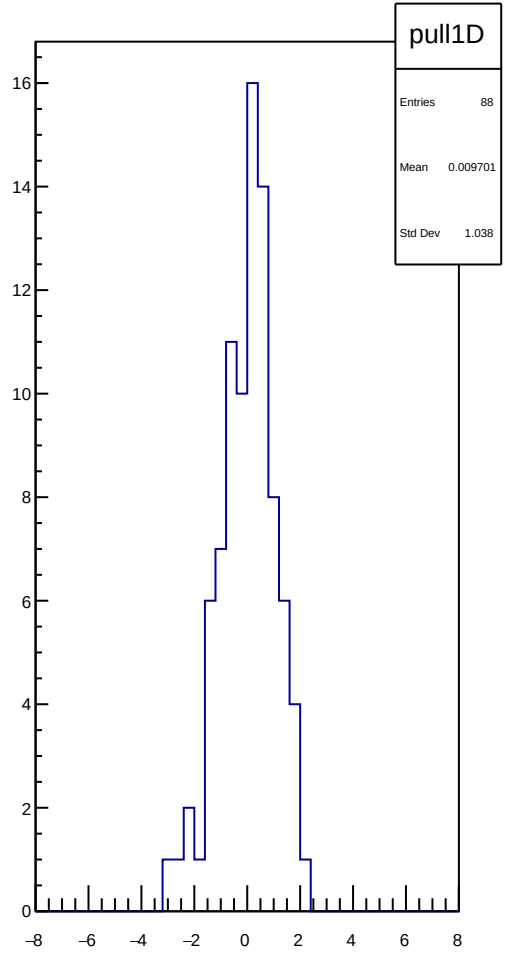

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

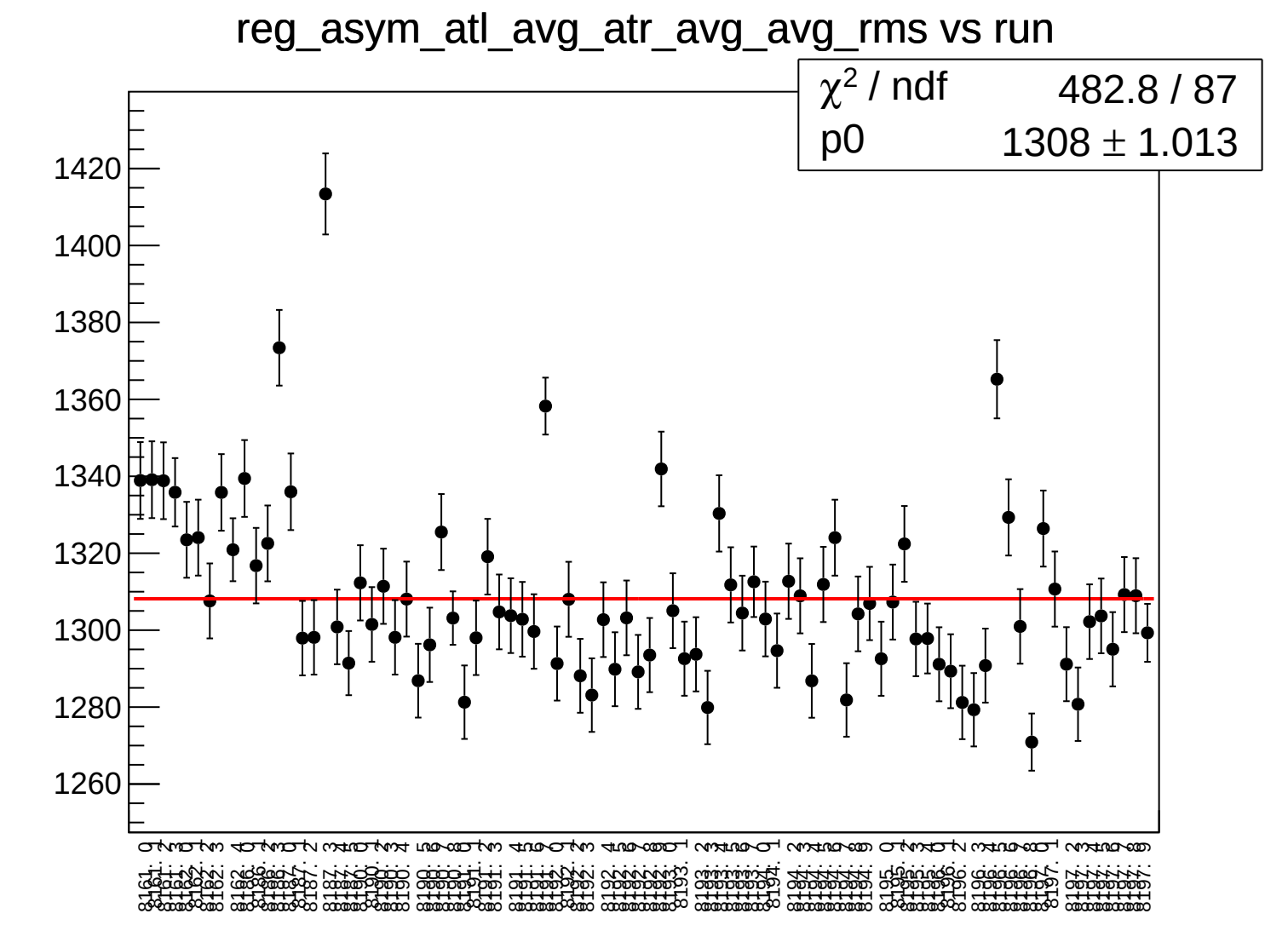

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.27 / 87
p0 5.627e−13 ± 4.607e−13
pull
Entries 88
Mean 2653
Std Dev 0

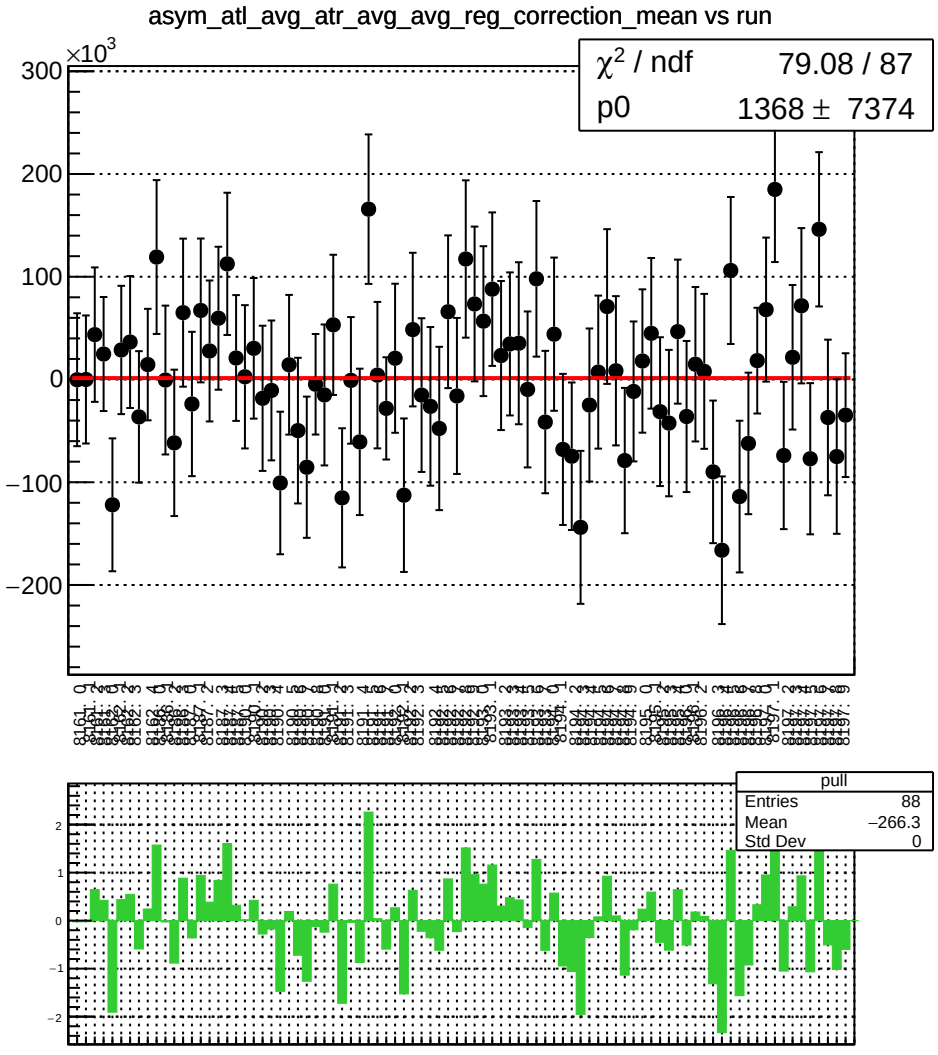

pull1D
Entries 88
Mean −0.001051
Std Dev 0.9187

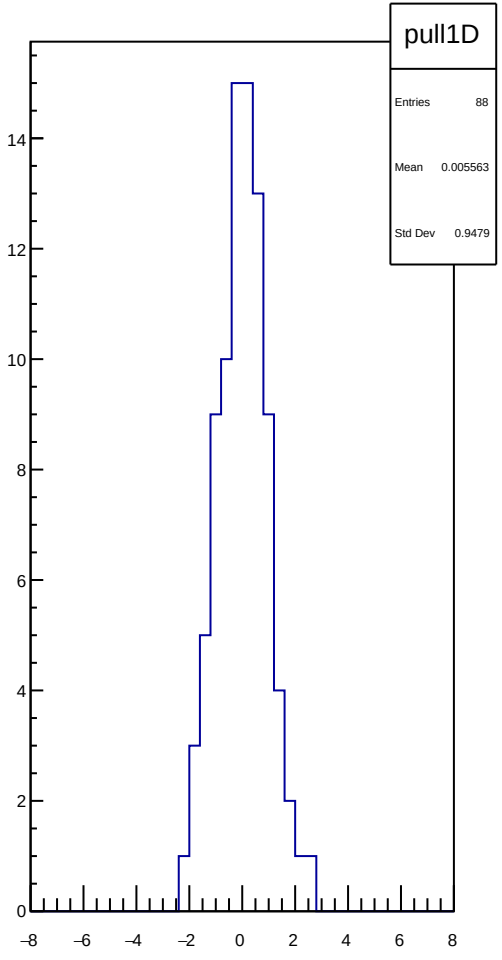

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.986e+05 / 87
p0 3.521e−10 ± 3.258e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

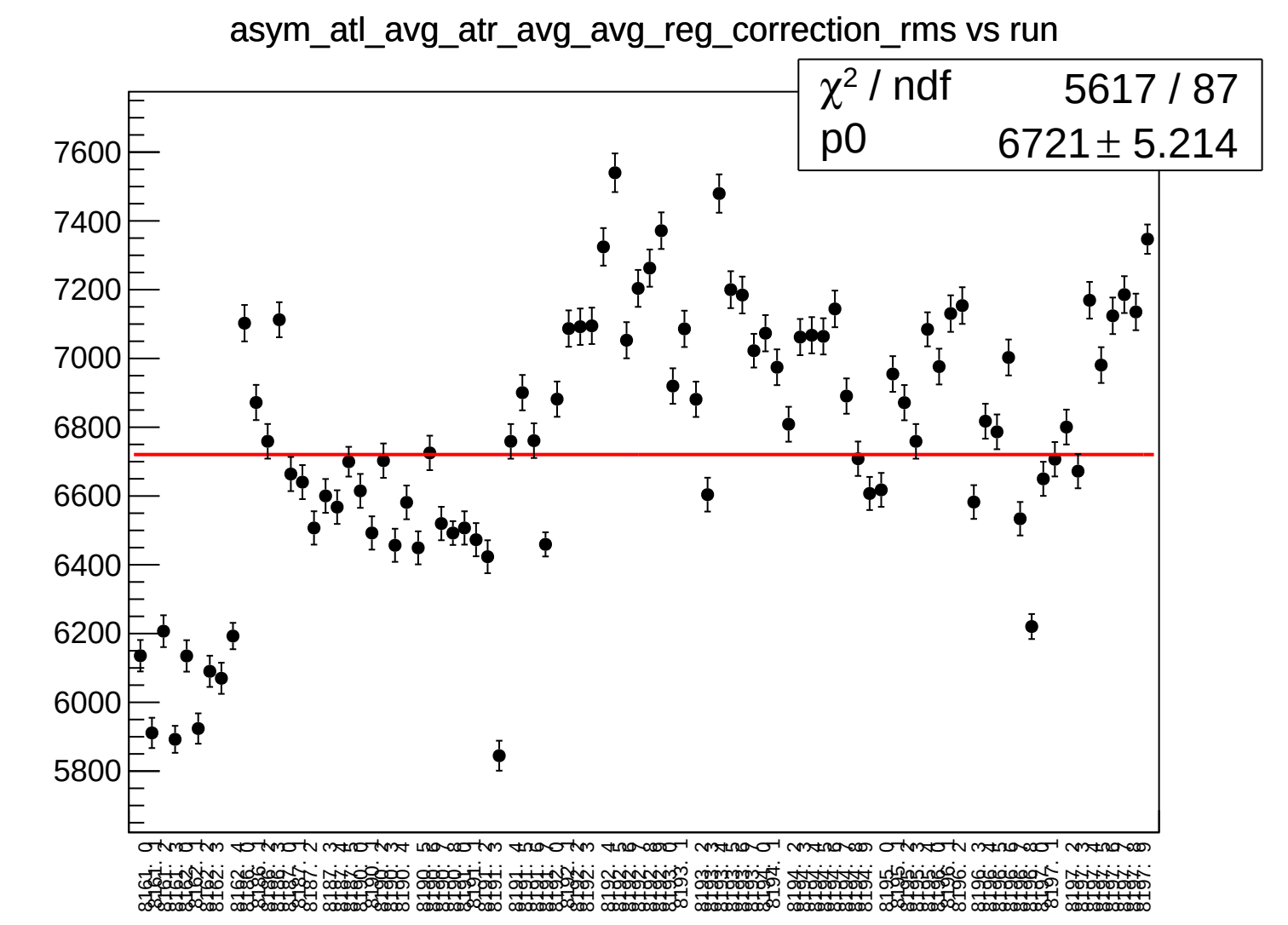

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 94.76 / 87
p0 −502.4 ± 1433
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −401.1
Std Dev 0
2
1
0
−1
−2
−3

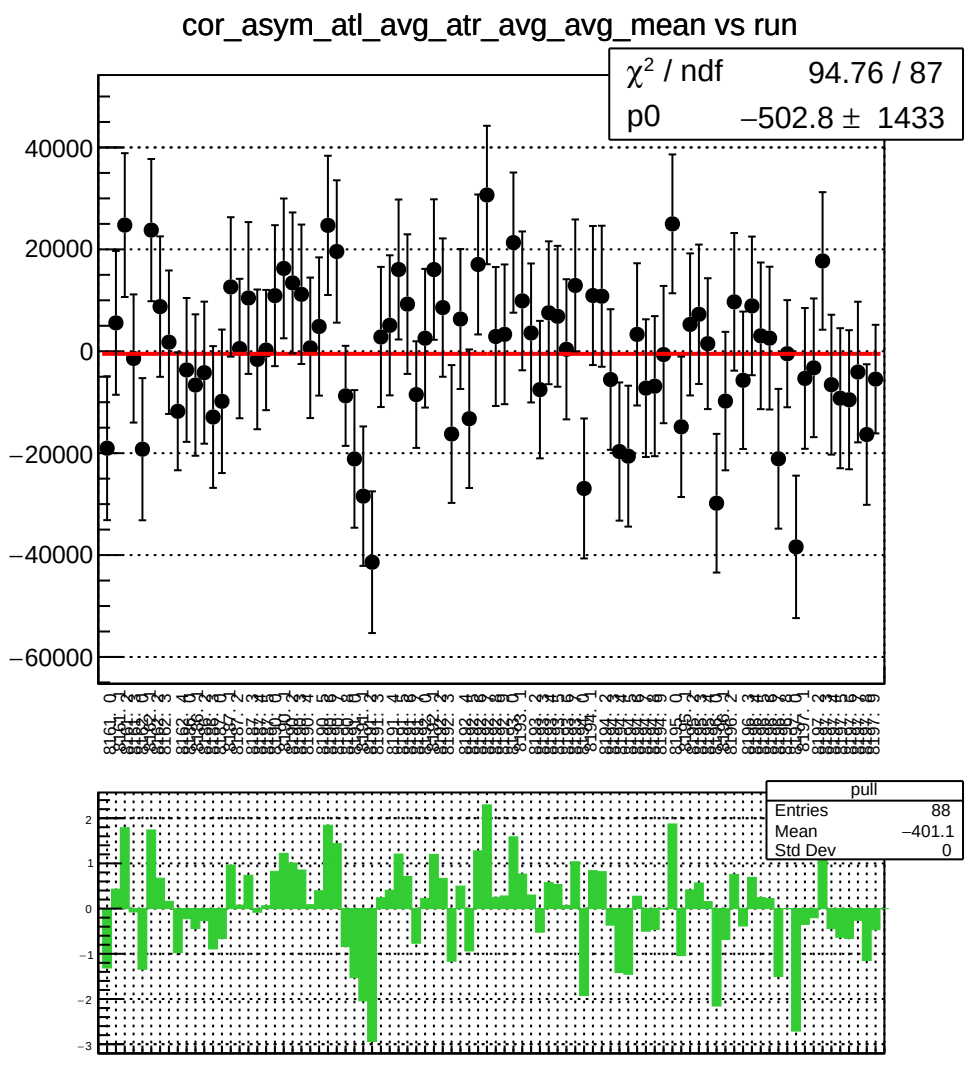

pull1D
Entries 88
Mean 0.009701
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

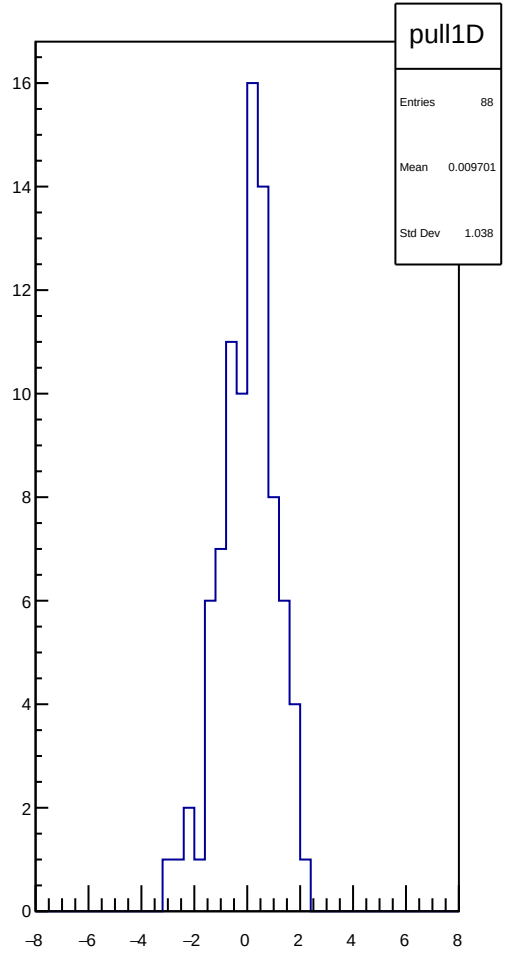

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 482.8 / 87
p0 1308 ± 1.013
1420
1400
1380
1360
1340
1320
1300
1280
1260

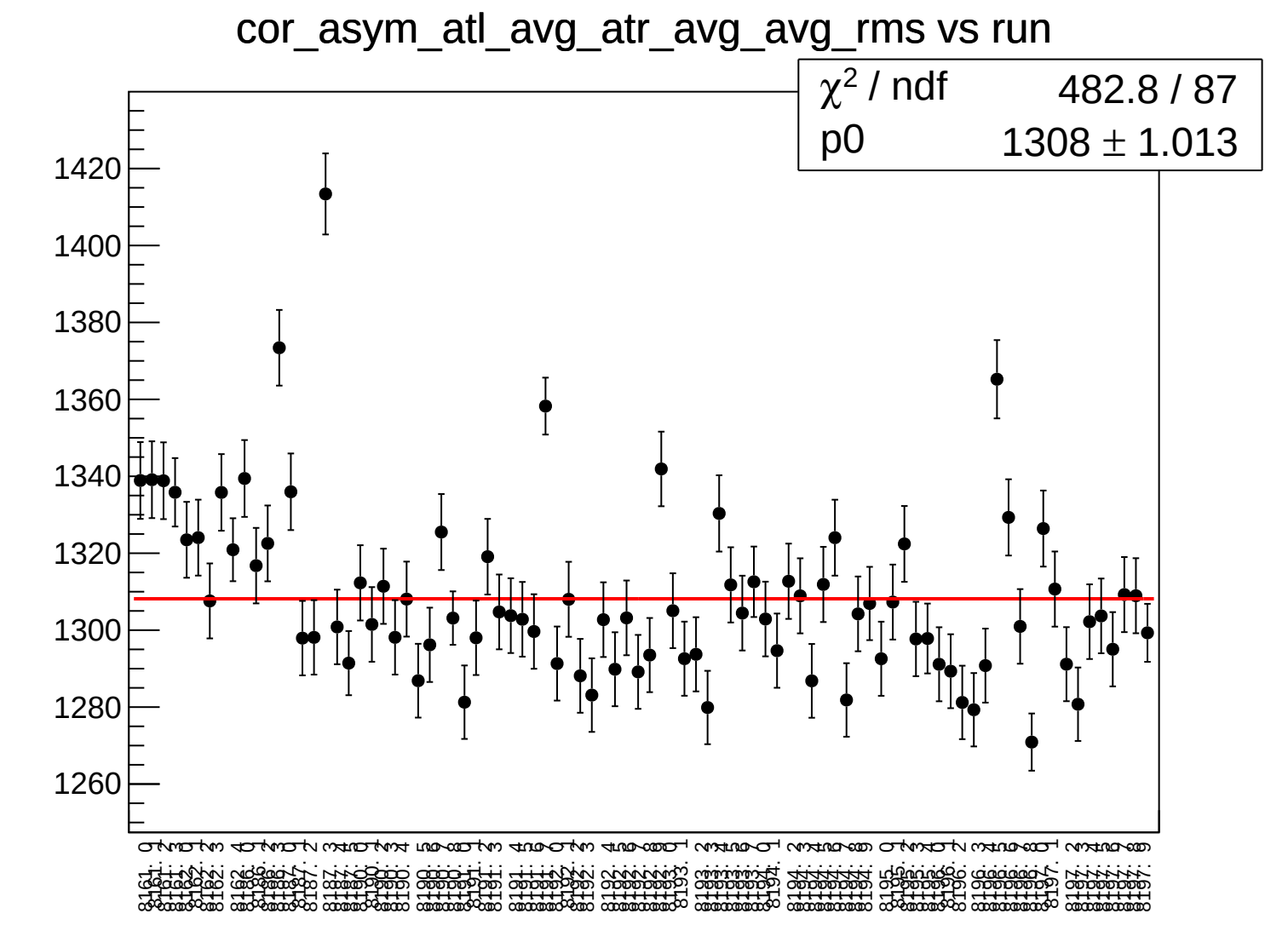

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.08 / 87
p0 1368 ± 7374
pull
Entries 88
Mean −266.3
Std Dev 0

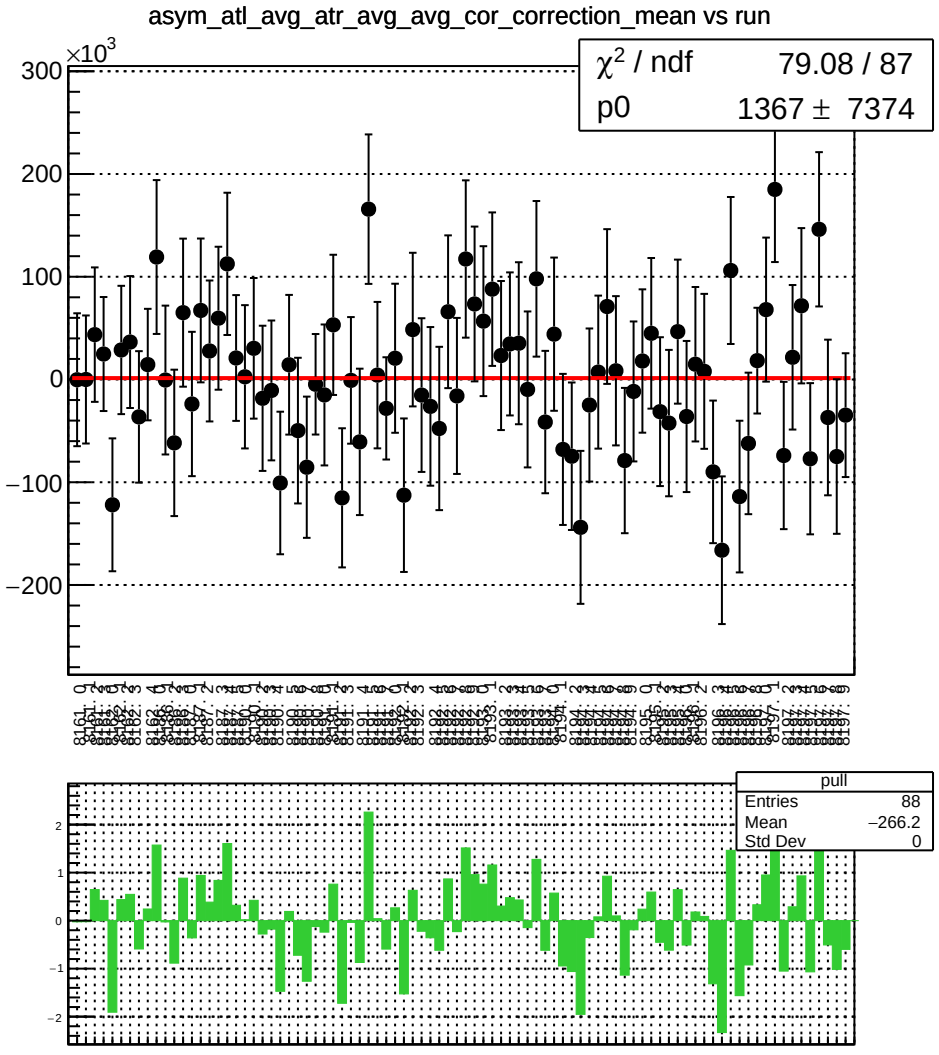

pull1D
Entries 88
Mean 0.005563
Std Dev 0.9479

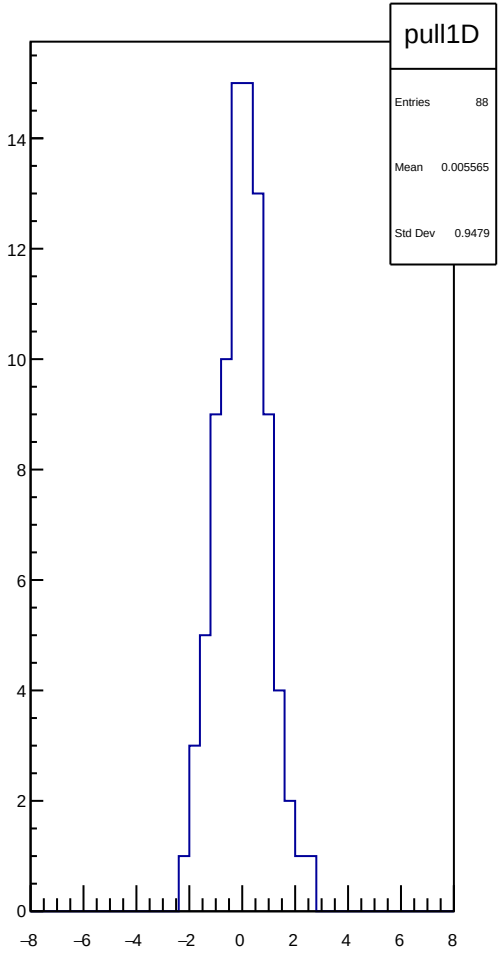

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 5617 / 87
p0 6721 ± 5.214
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

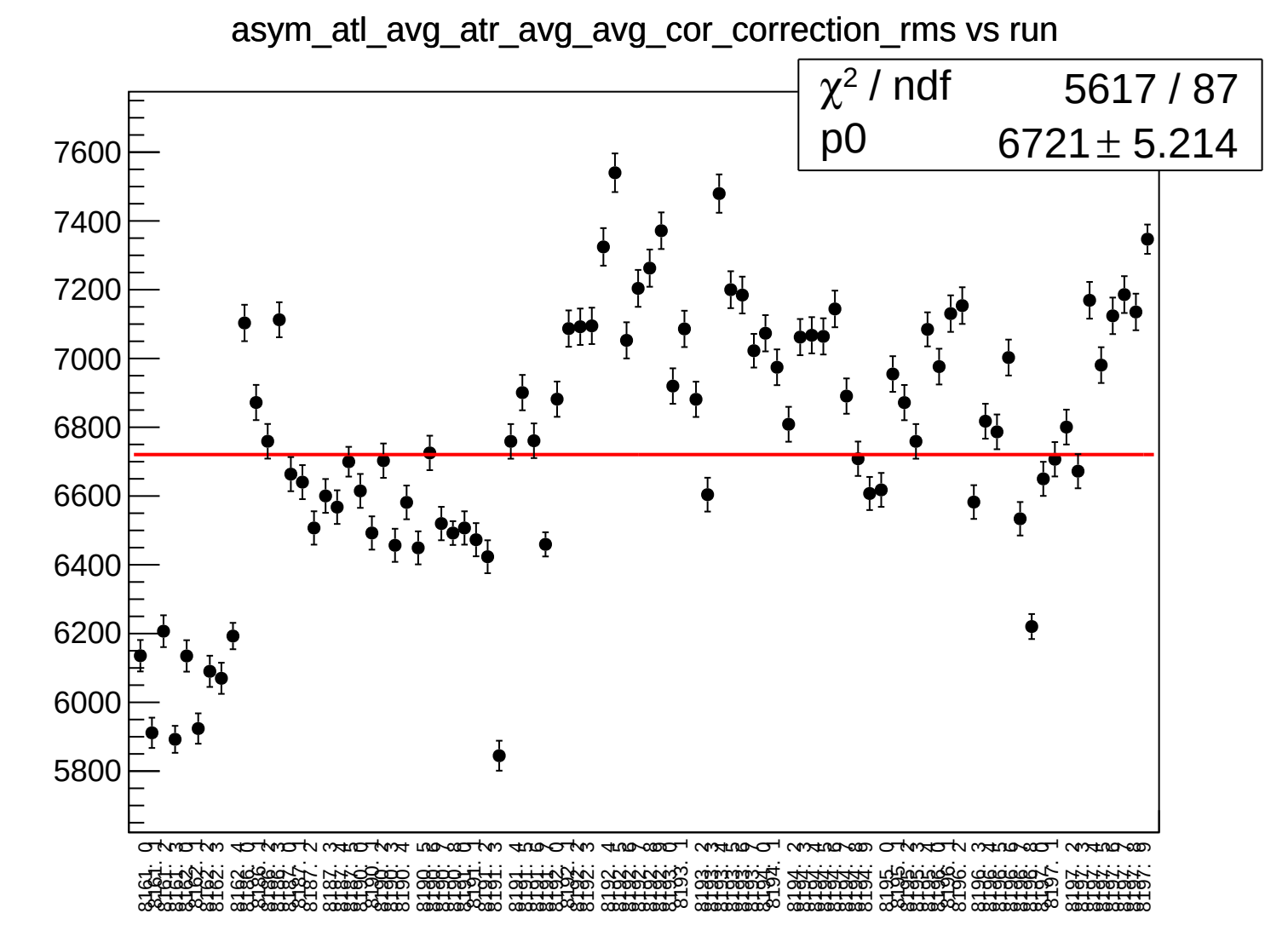

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 94.76 / 87
p0 −502.8 ± 1433
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −401.1
Std Dev 0
2
1
0
−1
−2
−3

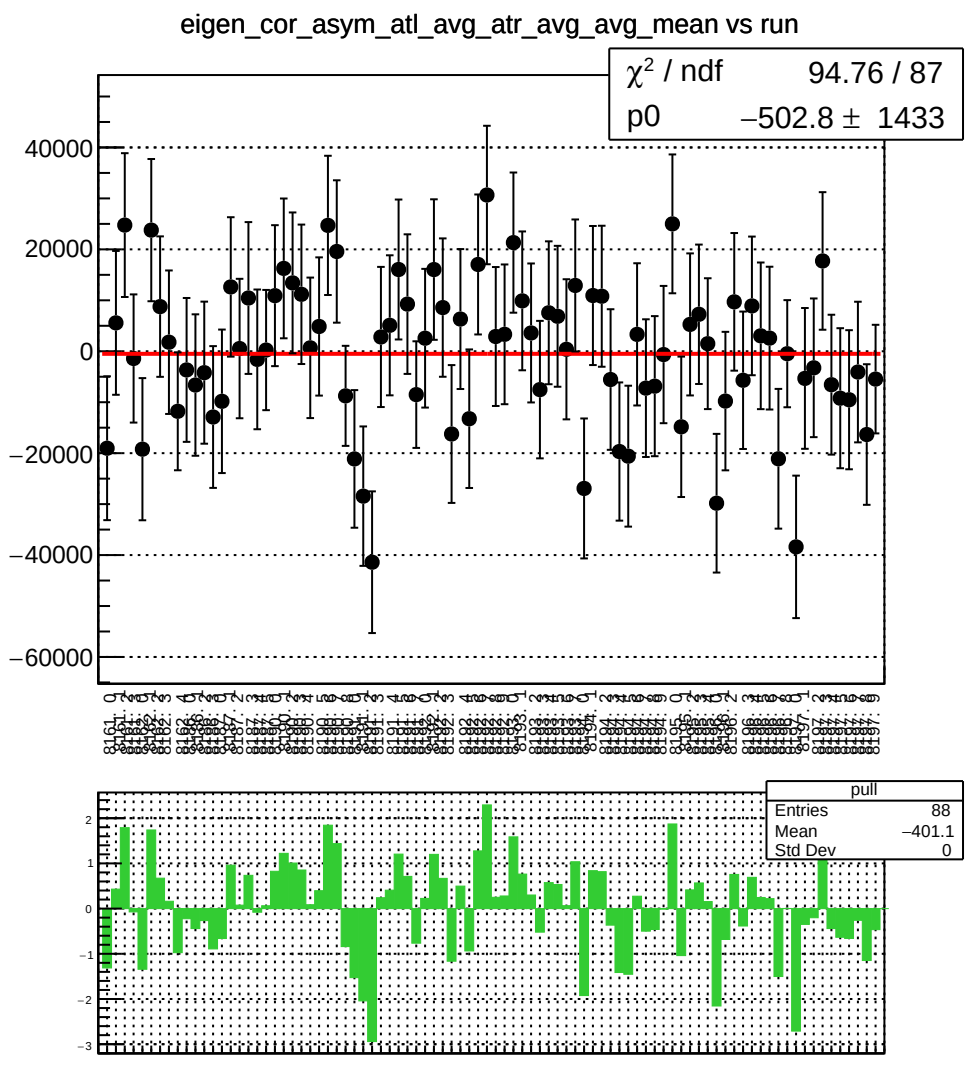

pull1D
Entries 88
Mean 0.009701
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

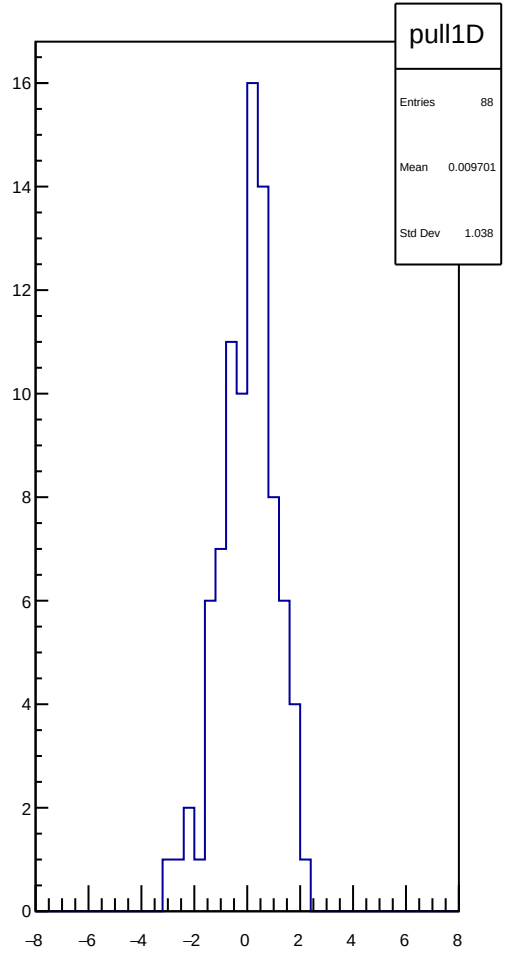

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 482.8 / 87
p0 1308 ± 1.013
1420
1400
1380
1360
1340
1320
1300
1280
1260

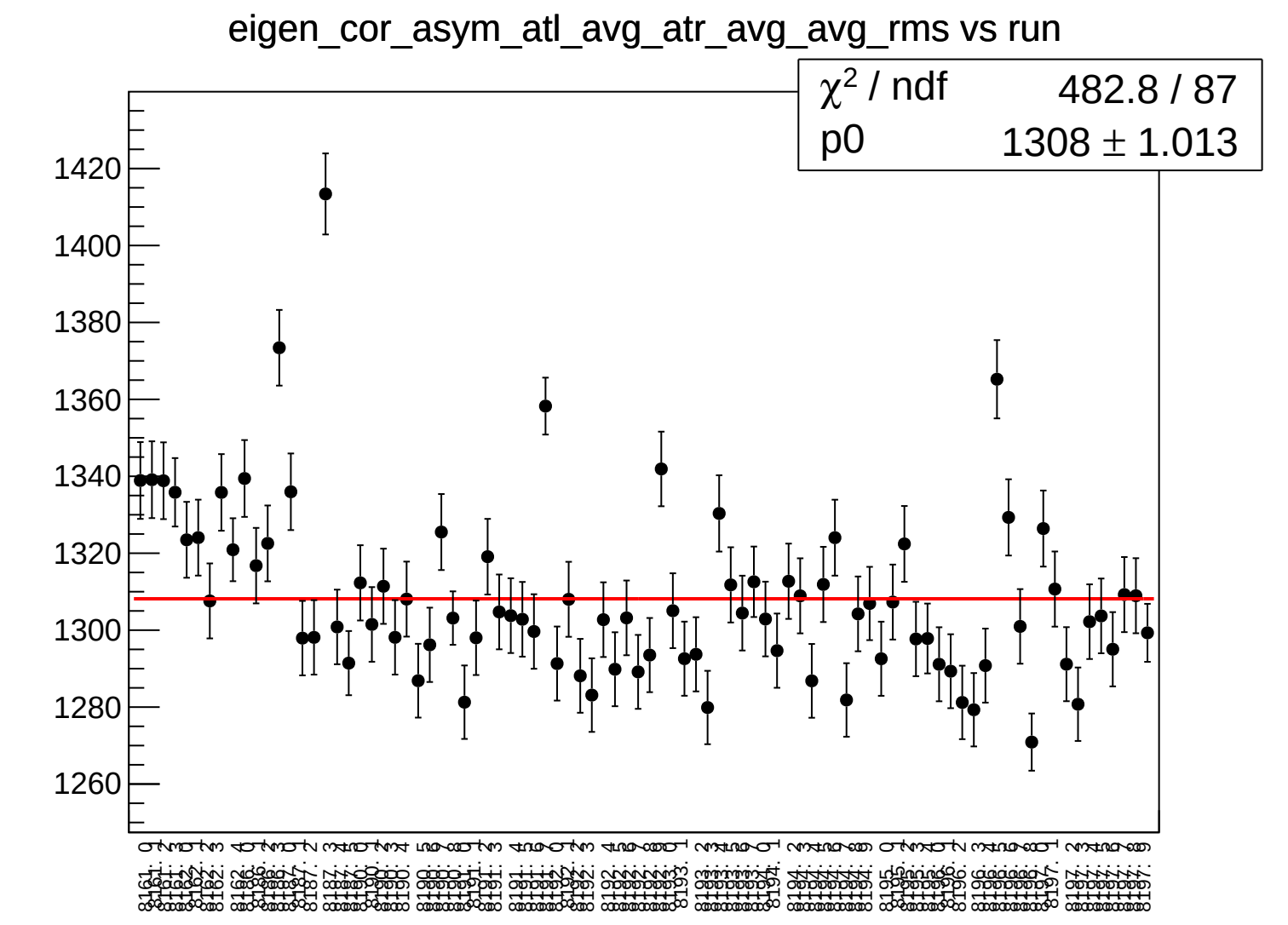

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.08 / 87
p0 1367 ± 7374
pull
Entries 88
Mean −266.2
Std Dev 0

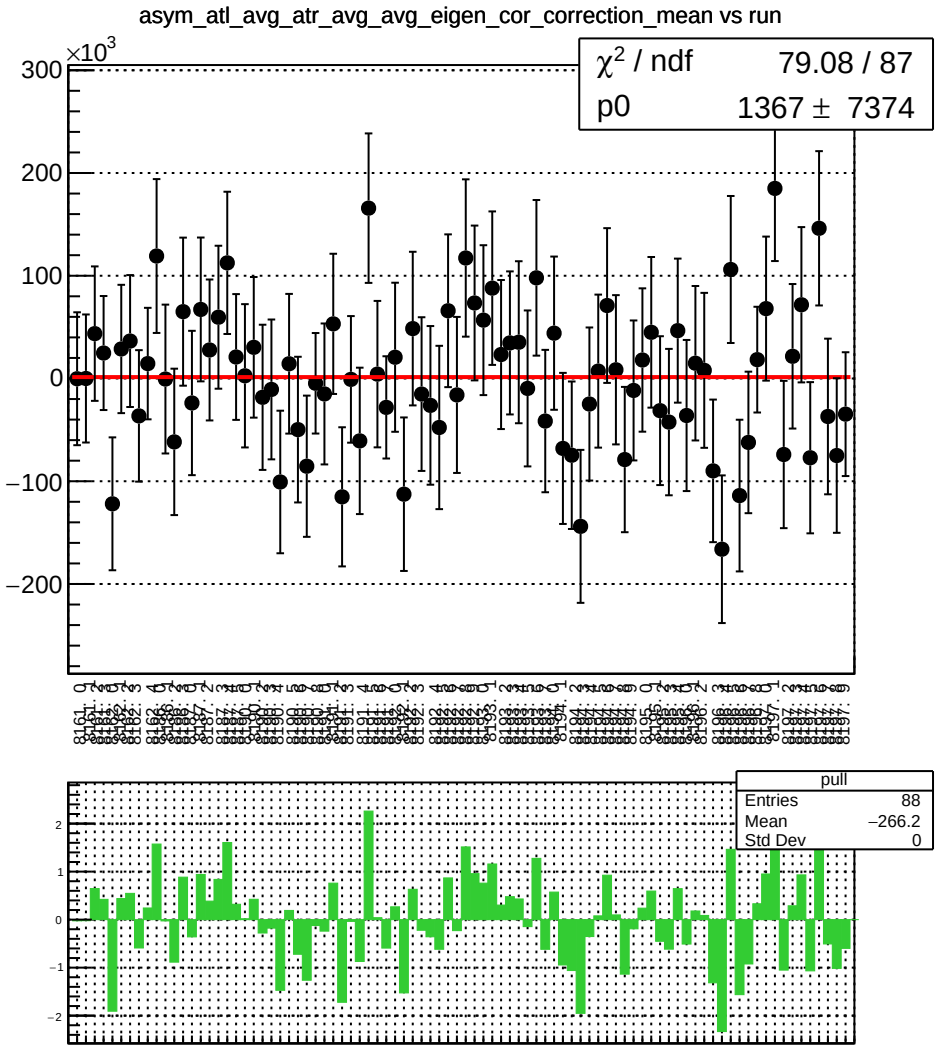

pull1D
Entries 88
Mean 0.005565
Std Dev 0.9479

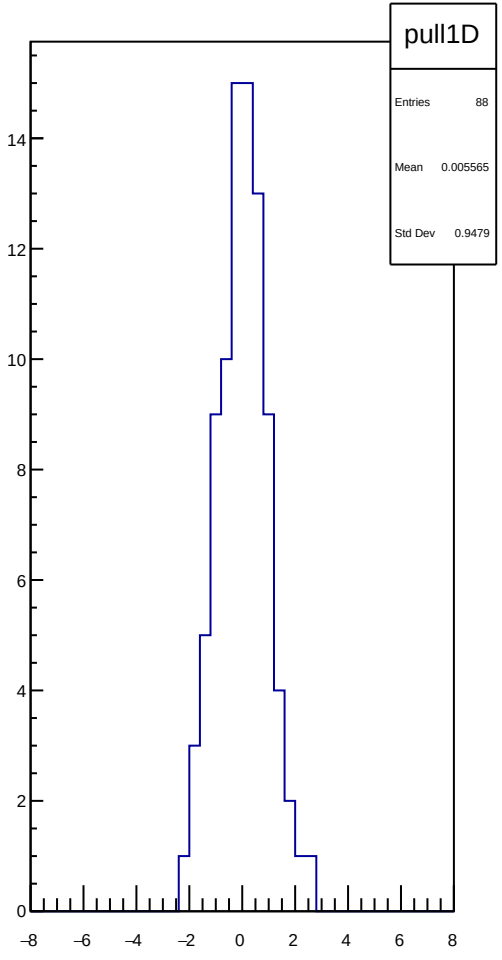

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 5617 / 87
p0 6721 ± 5.214
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

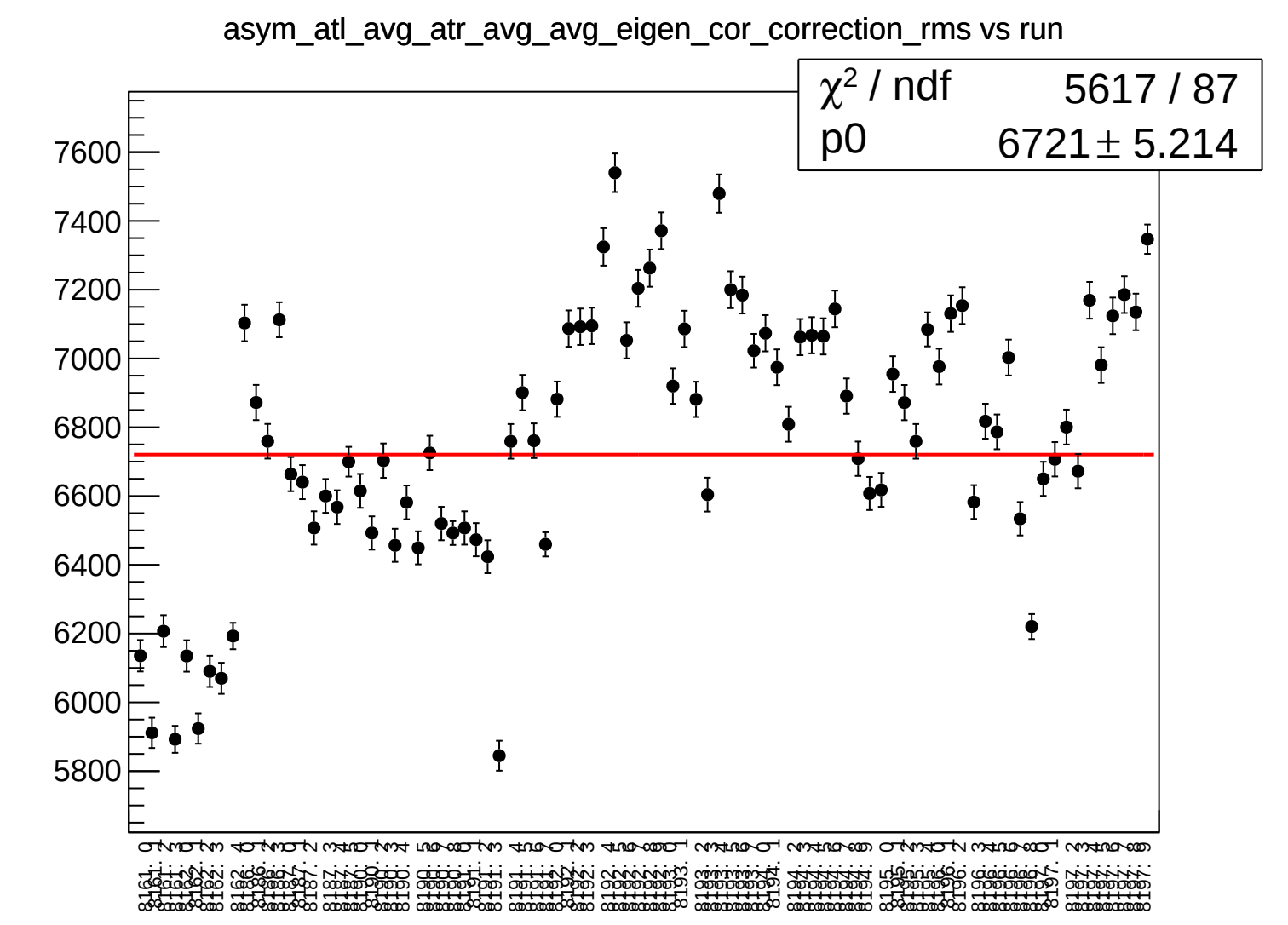

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 94.76 / 87
p0 −502.8 ± 1433
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −401.1
Std Dev 0
2
1
0
−1
−2
−3

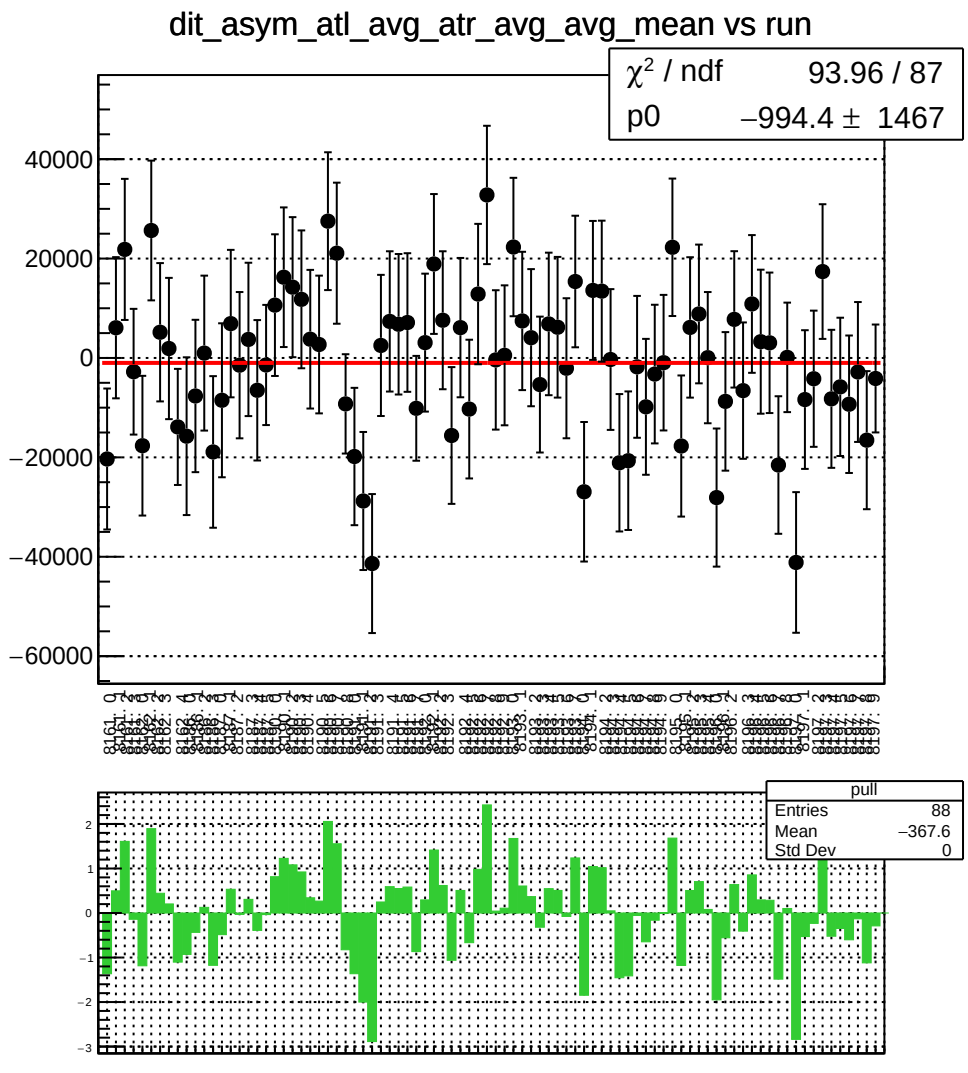

pull1D
Entries 88
Mean 0.009701
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

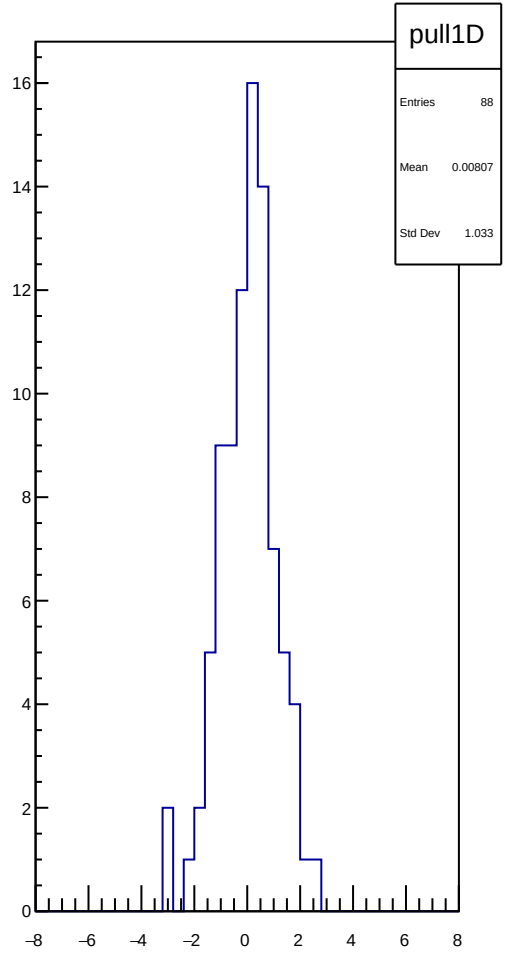

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 482.8 / 87
p0 1308 ± 1.013
1420
1400
1380
1360
1340
1320
1300
1280
1260

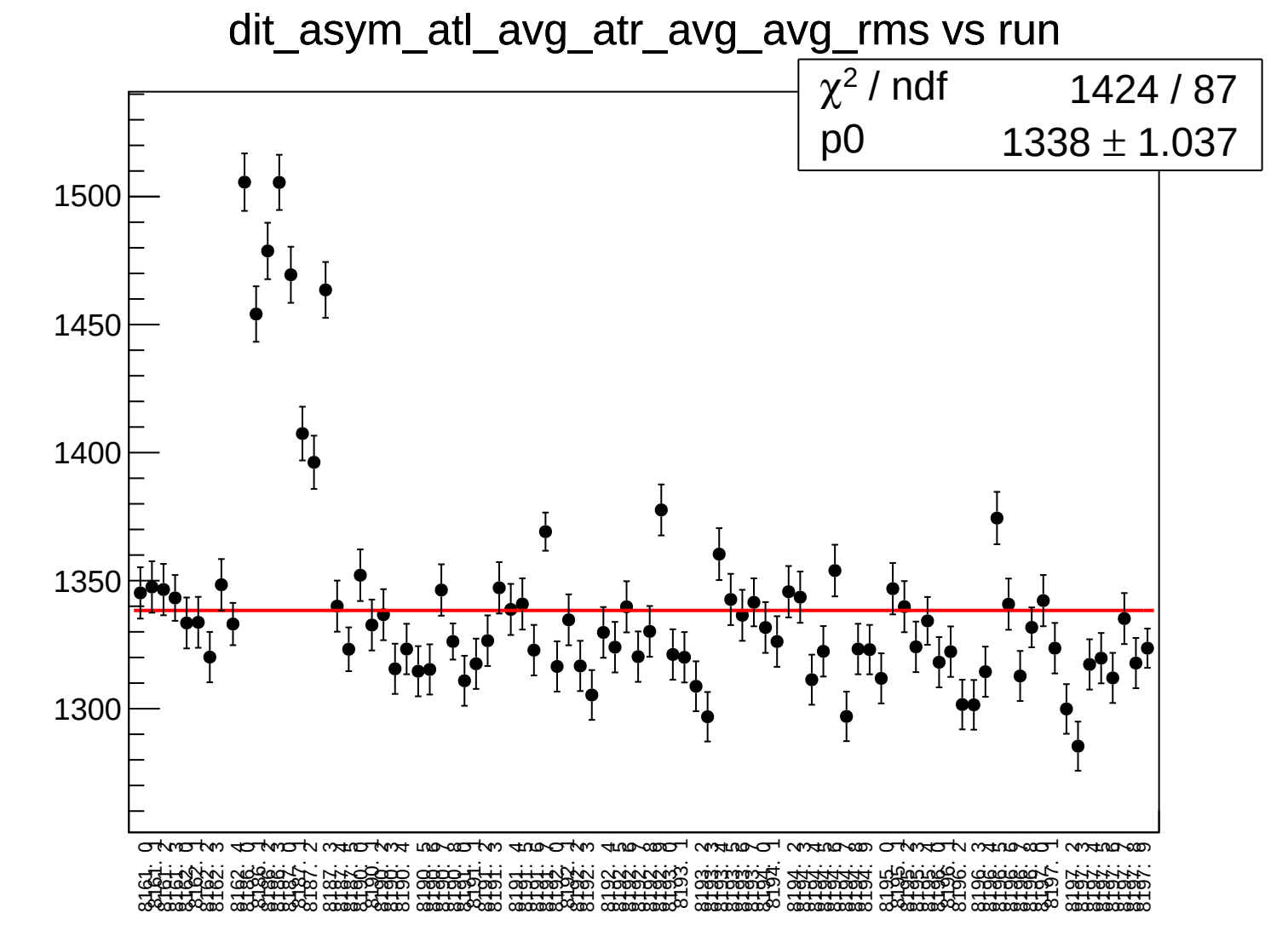

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.08 / 87
p0 1367 ± 7374
pull
Entries 88
Mean −266.2
Std Dev 0

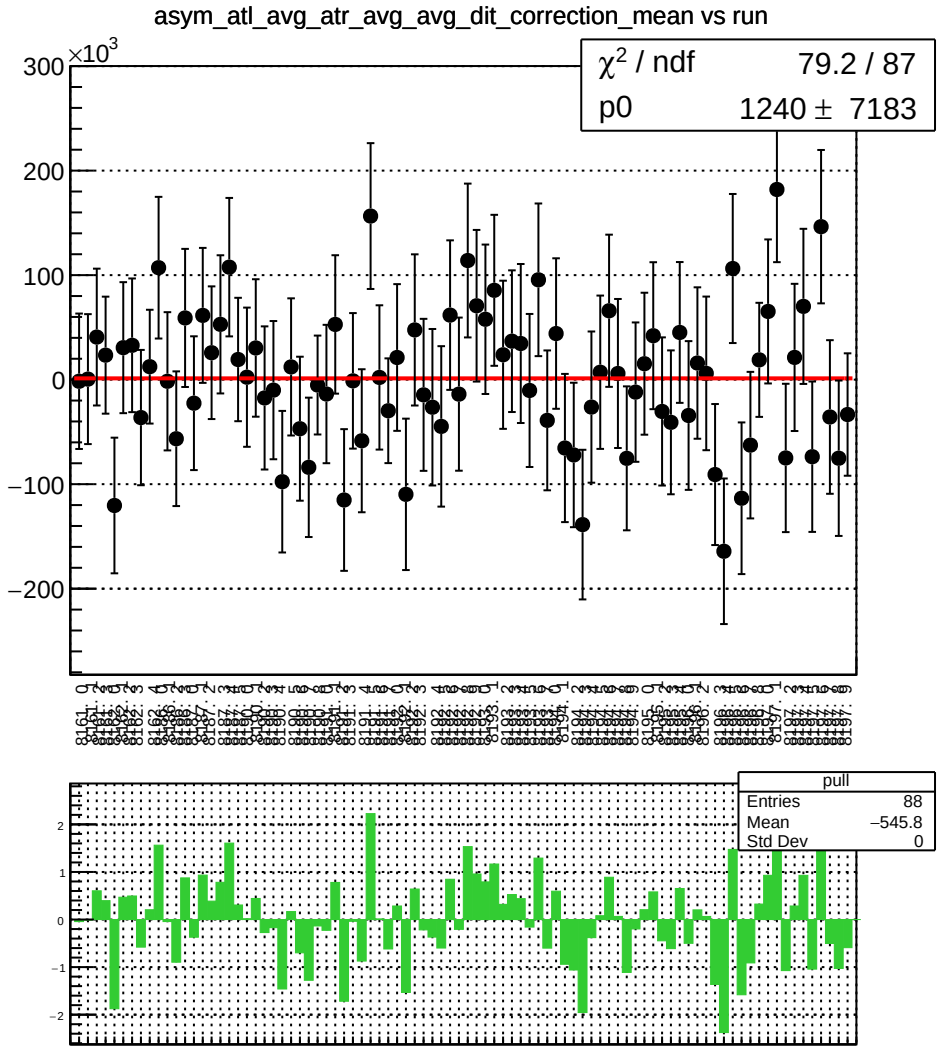

pull1D
Entries 88
Mean 0.005565
Std Dev 0.9479

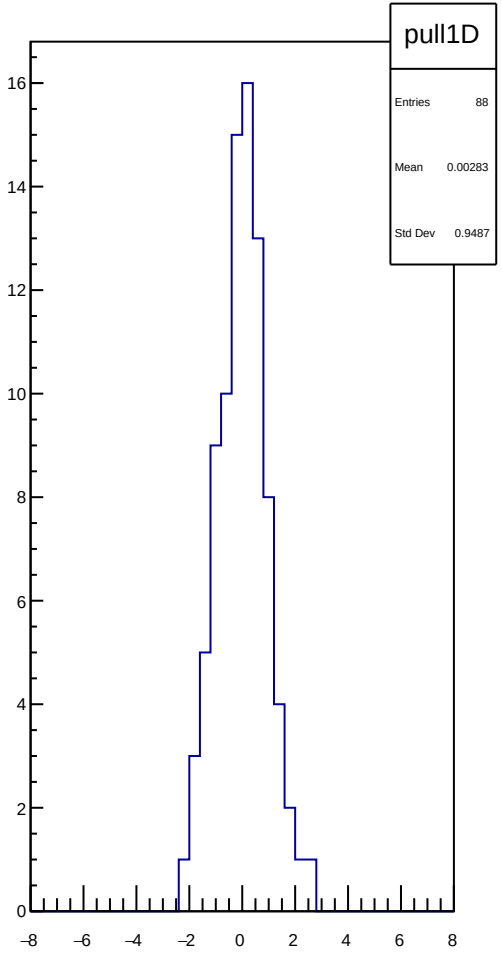

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5617 / 87
p0 6721 ± 5.214
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

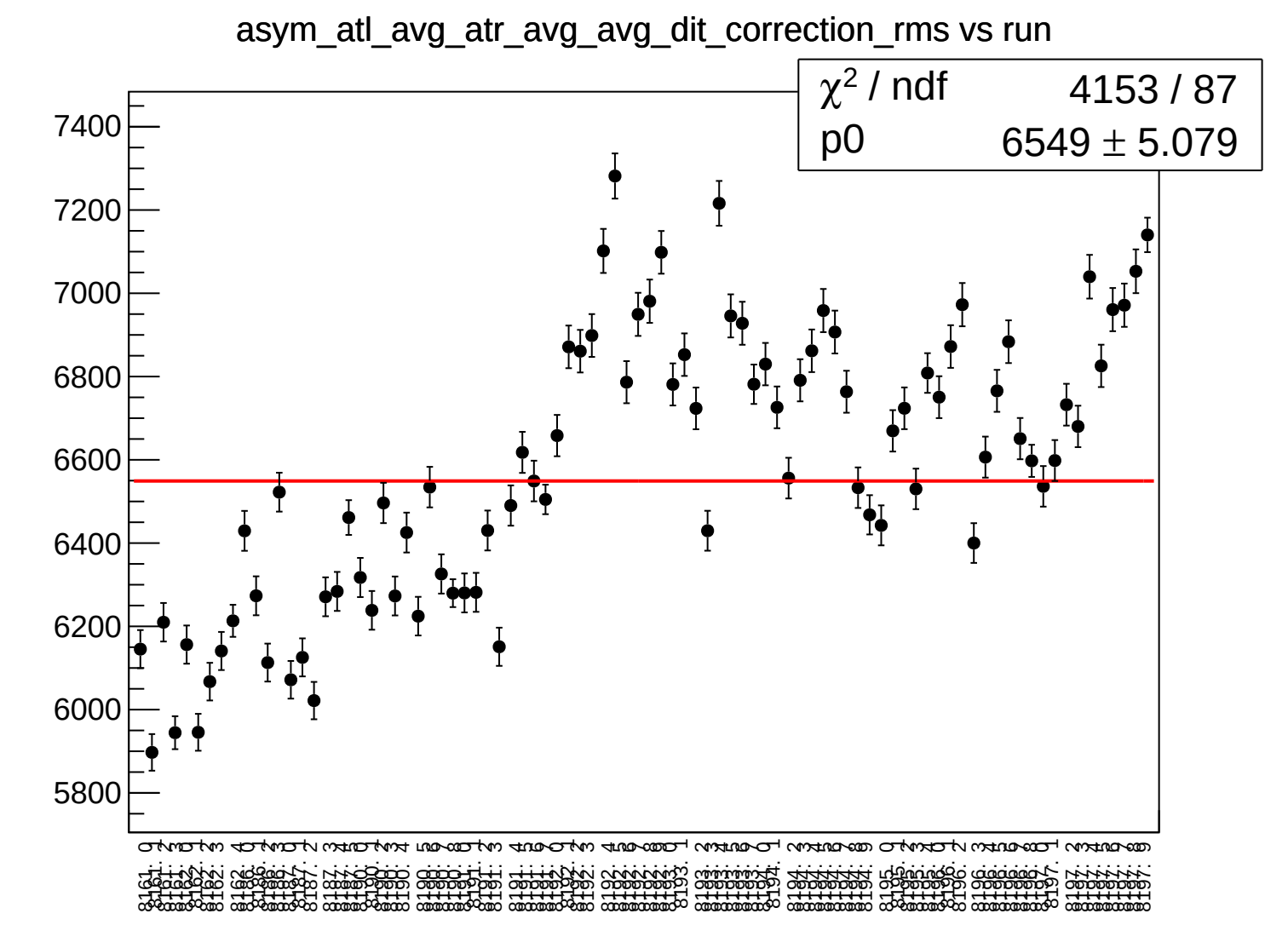

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.96 / 87
p0 −994.4 ± 1467
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −367.6
Std Dev 0
2
1
0
−1
−2
−3

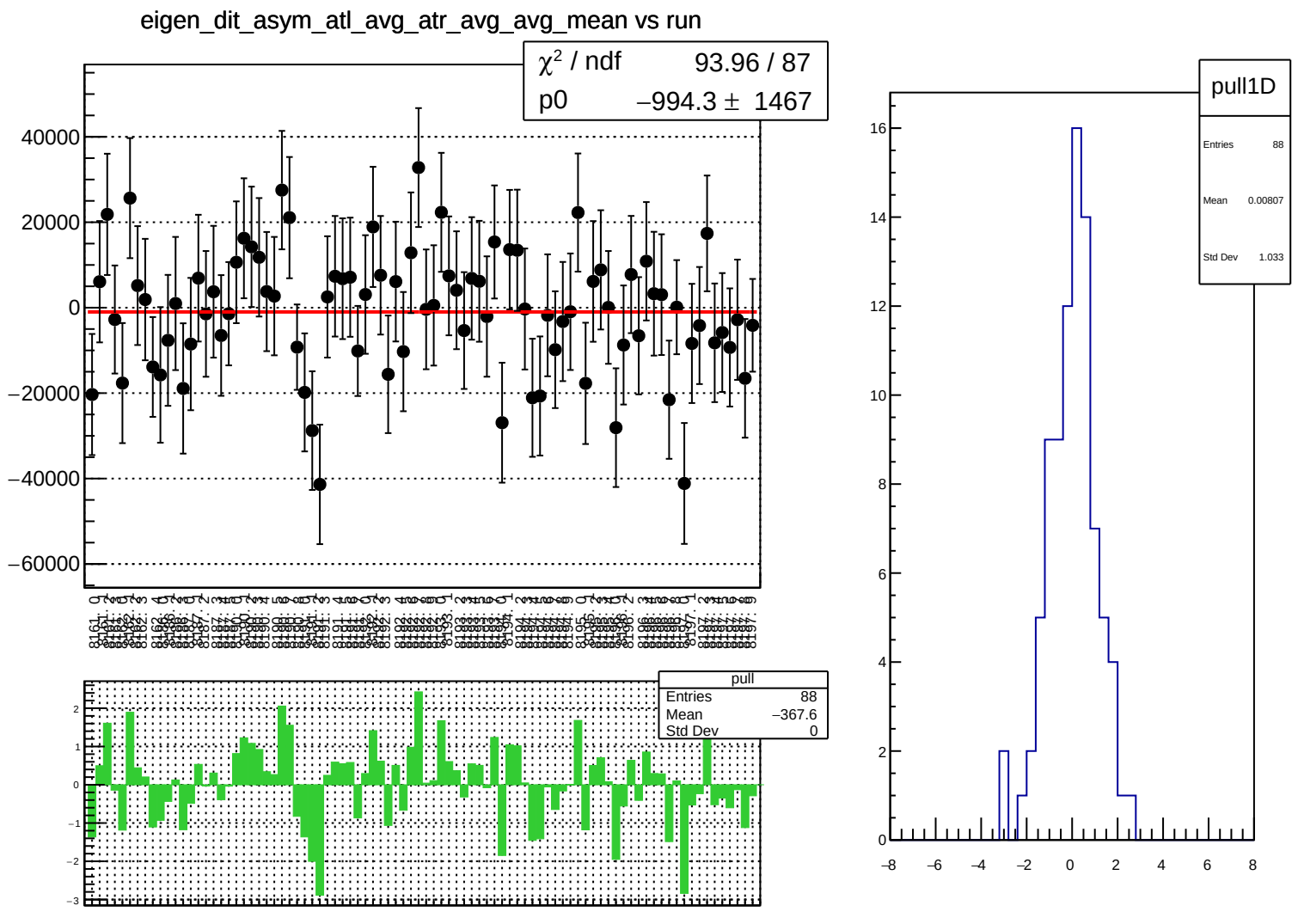

pull1D
Entries 88
Mean 0.00807
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

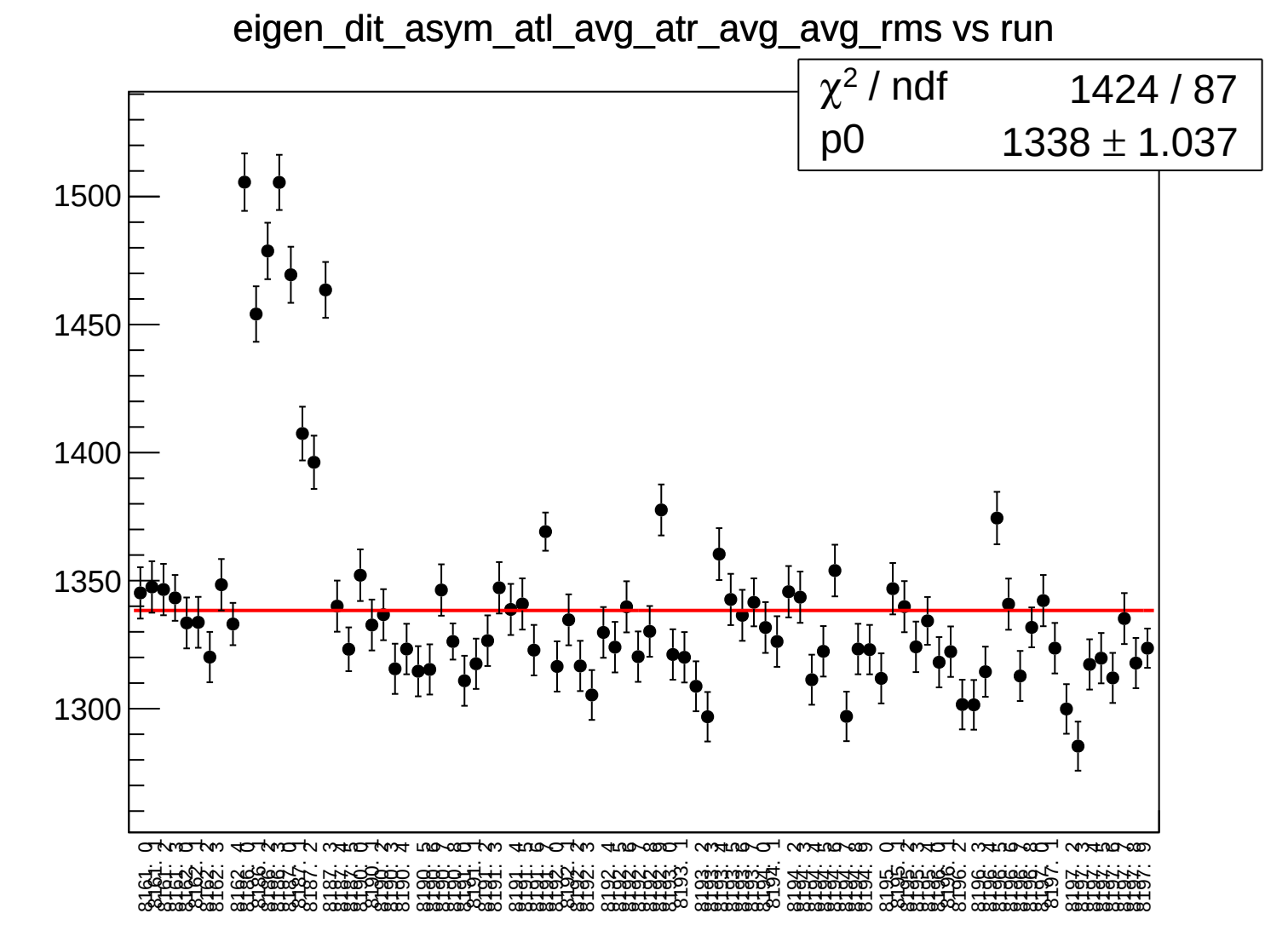

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1424 / 87
p0 1338 ± 1.037
1500
1450
1400
1350
1300

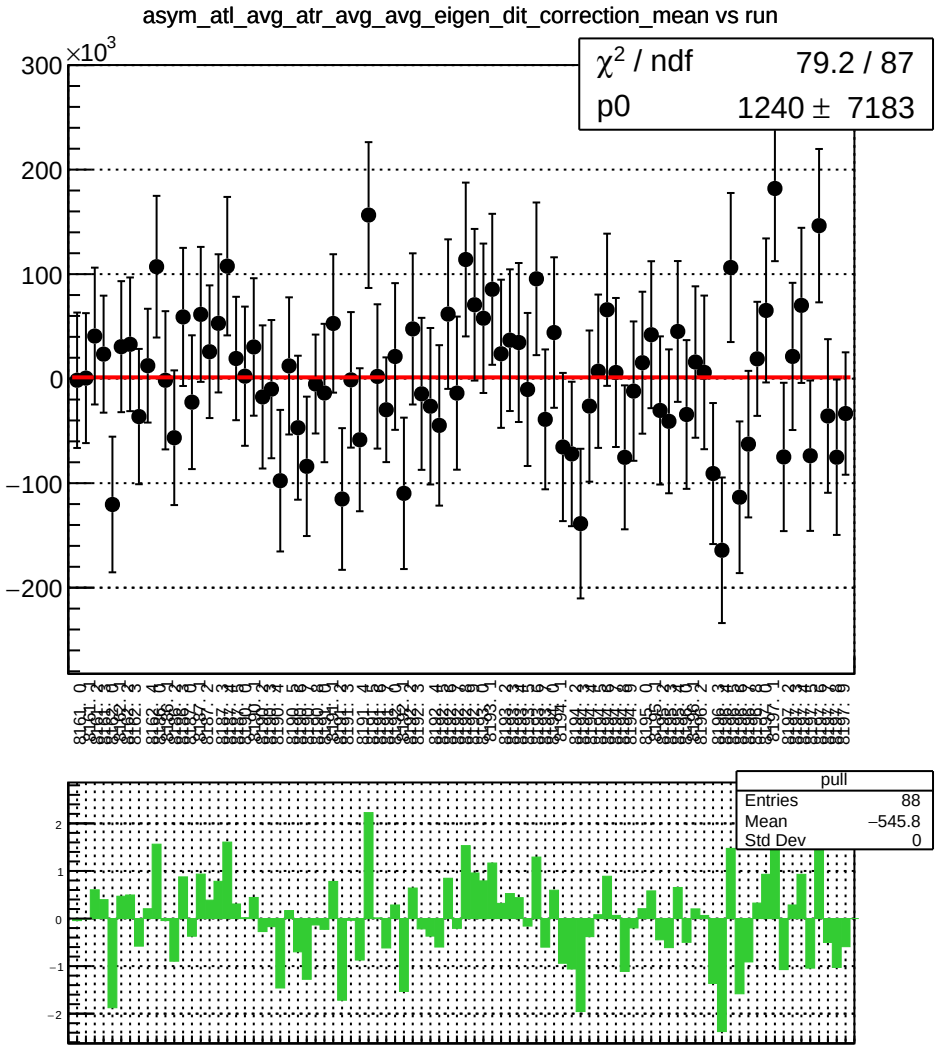

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
χ² / ndf 79.2 / 87
p0 1240 ± 7183
pull
Entries 88
Mean −545.8
Std Dev 0

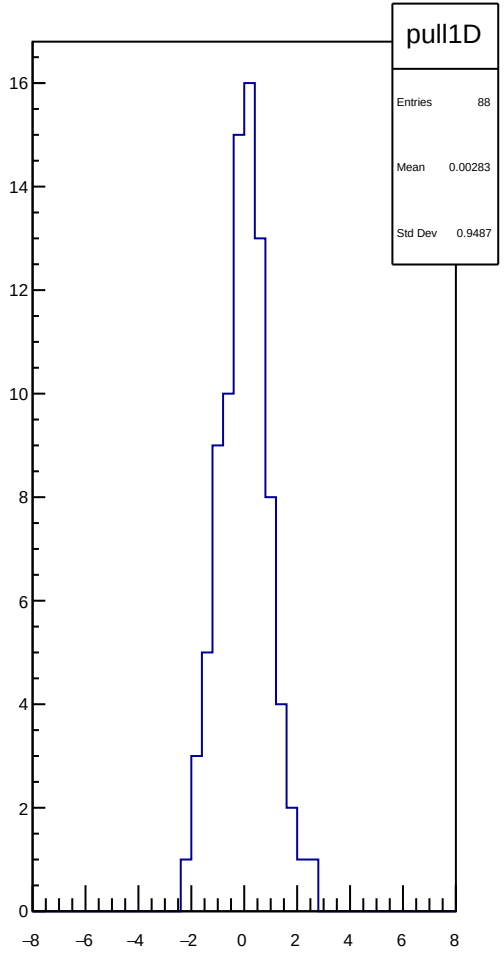

pull1D
Entries 88
Mean 0.00283
Std Dev 0.9487

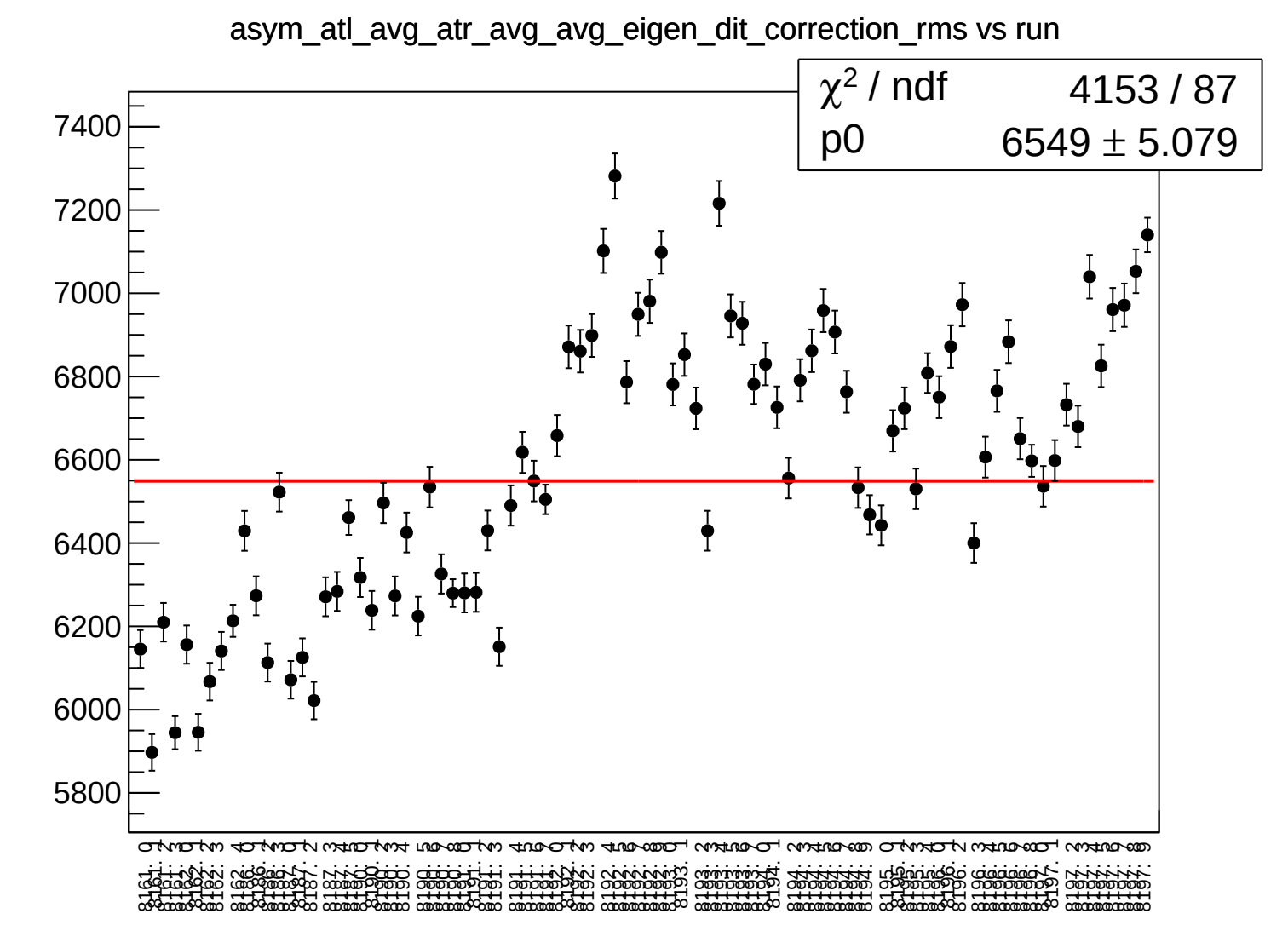

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 4153 / 87
p0 6549 ± 5.079
7400
7200
7000
6800
6600
6400
6200
6000
5800

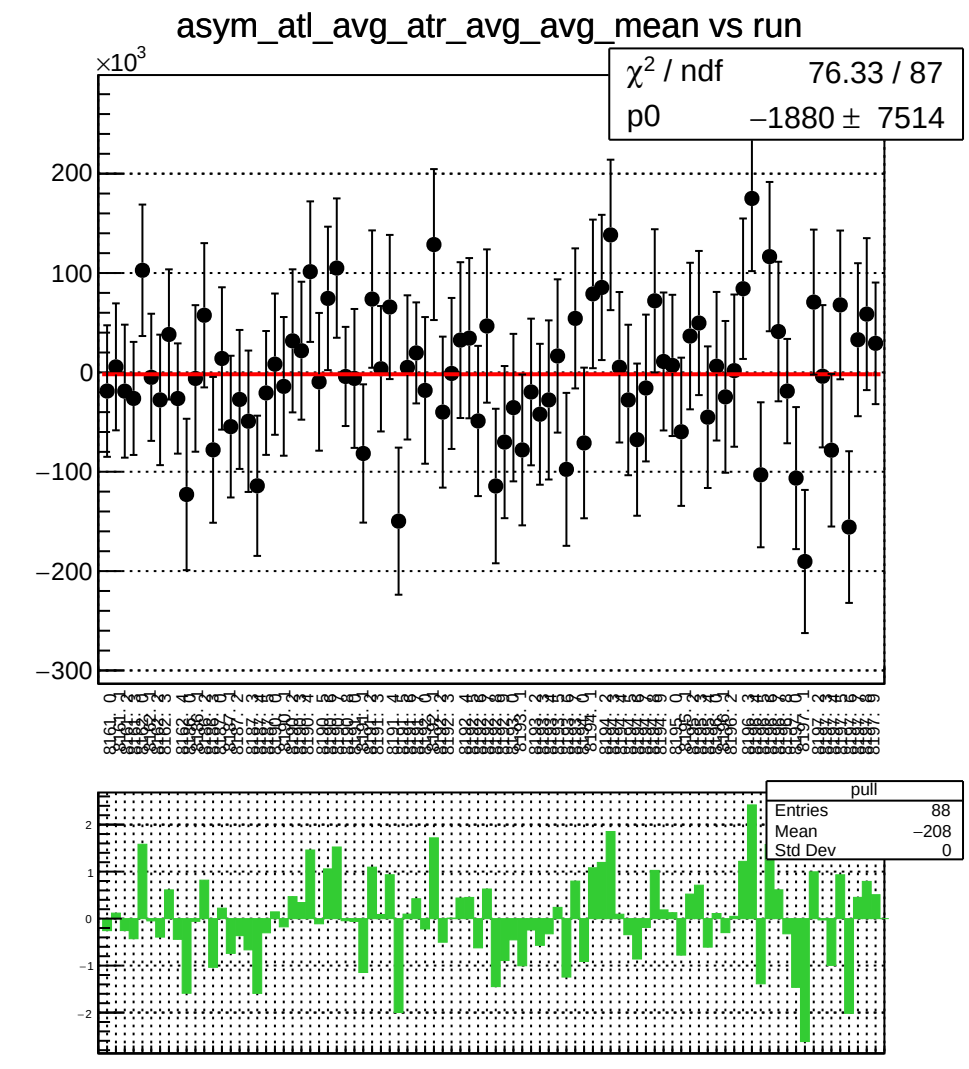

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.96 / 87
p0 −994.3 ± 1467
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −367.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.00807
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

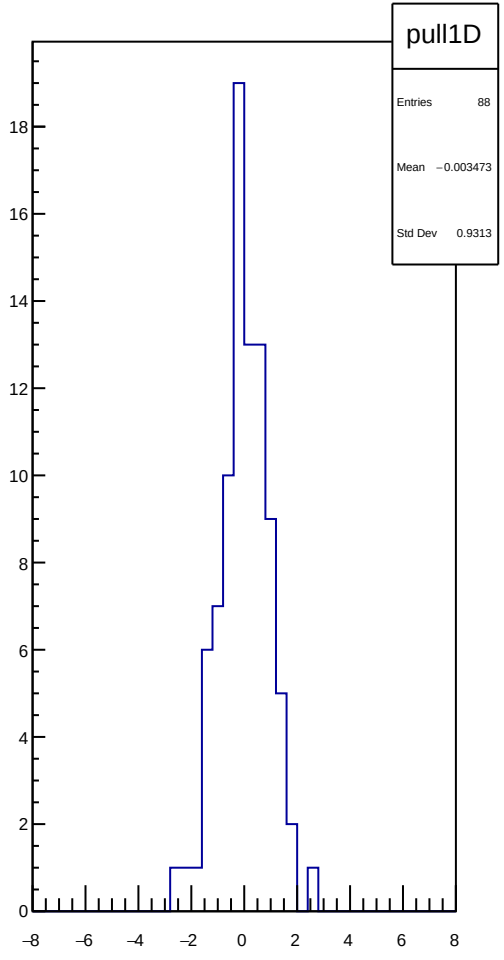

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1424 / 87
p0 1338 ± 1.037
1500
1450
1400
1350
1300

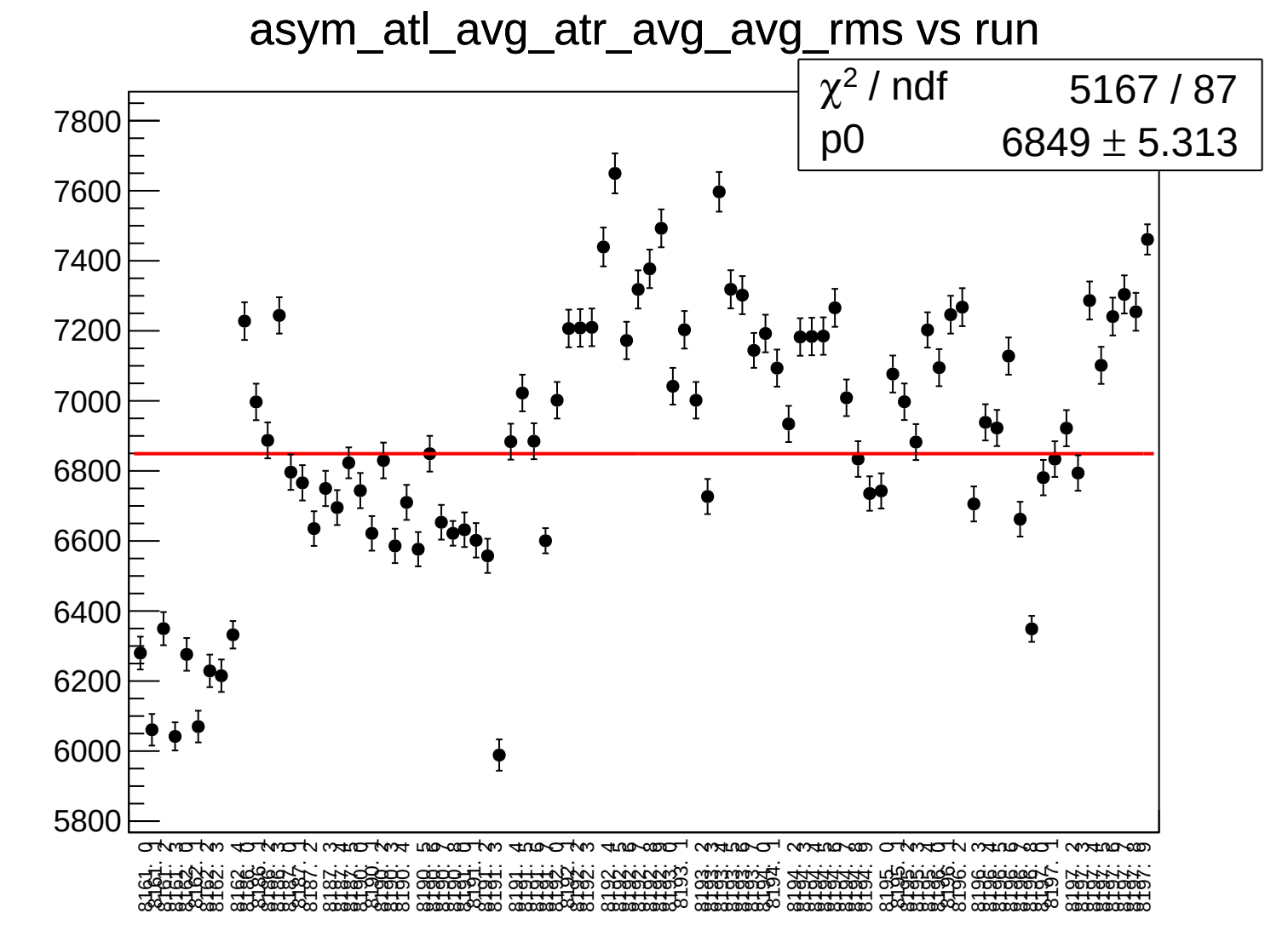

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.2 / 87
p0 1240 ± 7183
×10³
300
200
100
0
−100
−200
pull
Entries 88
Mean −545.8
Std Dev 0
2
1
0
−1
−2

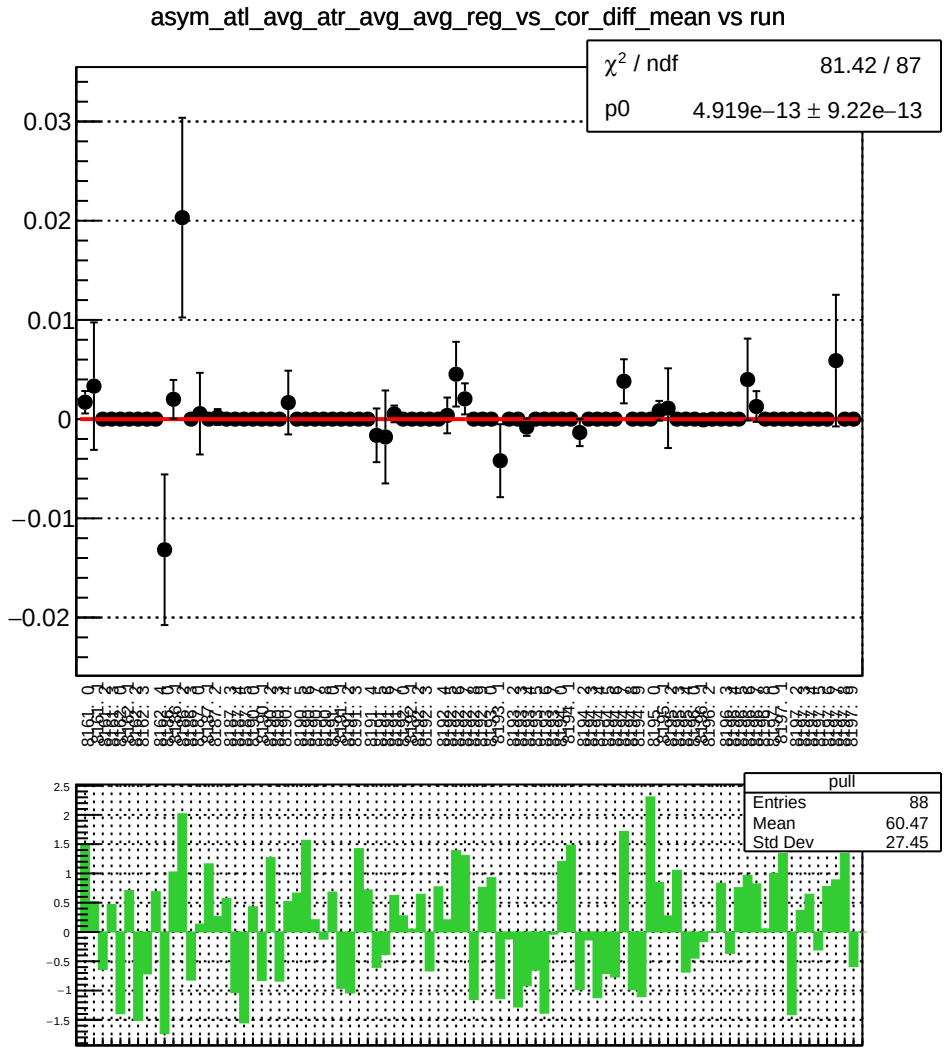

pull1D
Entries 88
Mean 0.00283
Std Dev 0.9487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

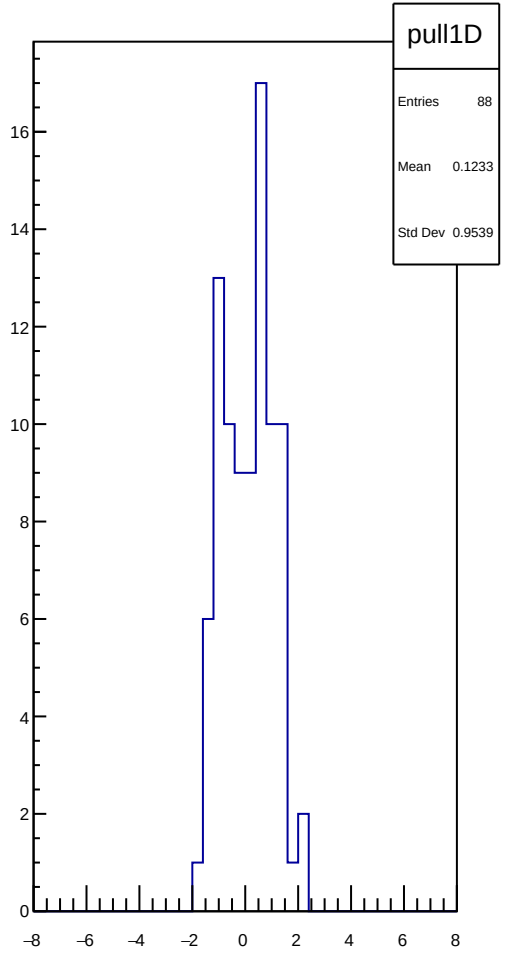

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4153 / 87
p0 6549 ± 5.079
7400
7200
7000
6800
6600
6400
6200
6000
5800

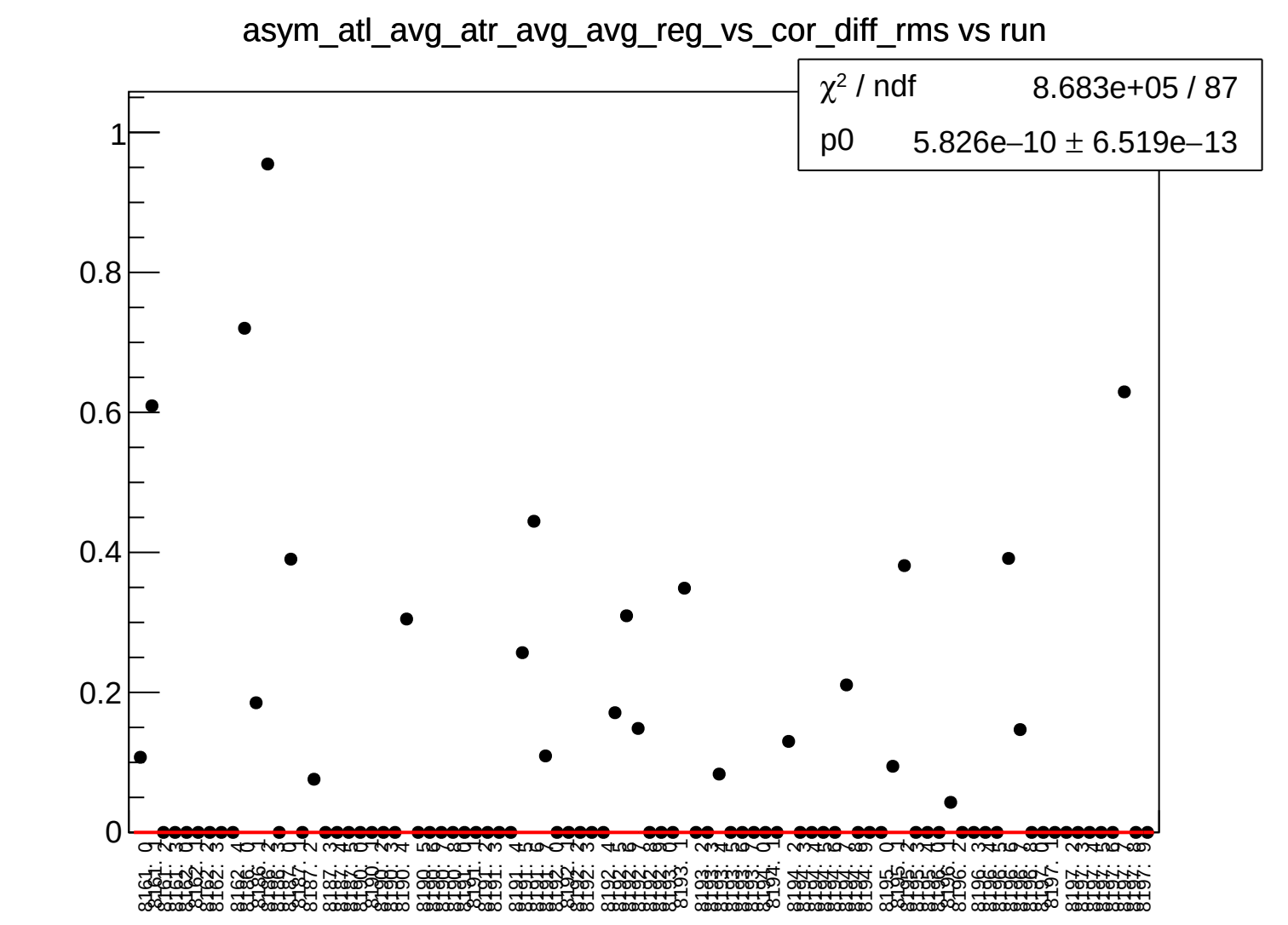

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 76.33 / 87
p0 −1880 ± 7514
×10³
200
100
0
−100
−200
−300
pull
Entries 88
Mean −208
Std Dev 0
2
1
0
−1
−2

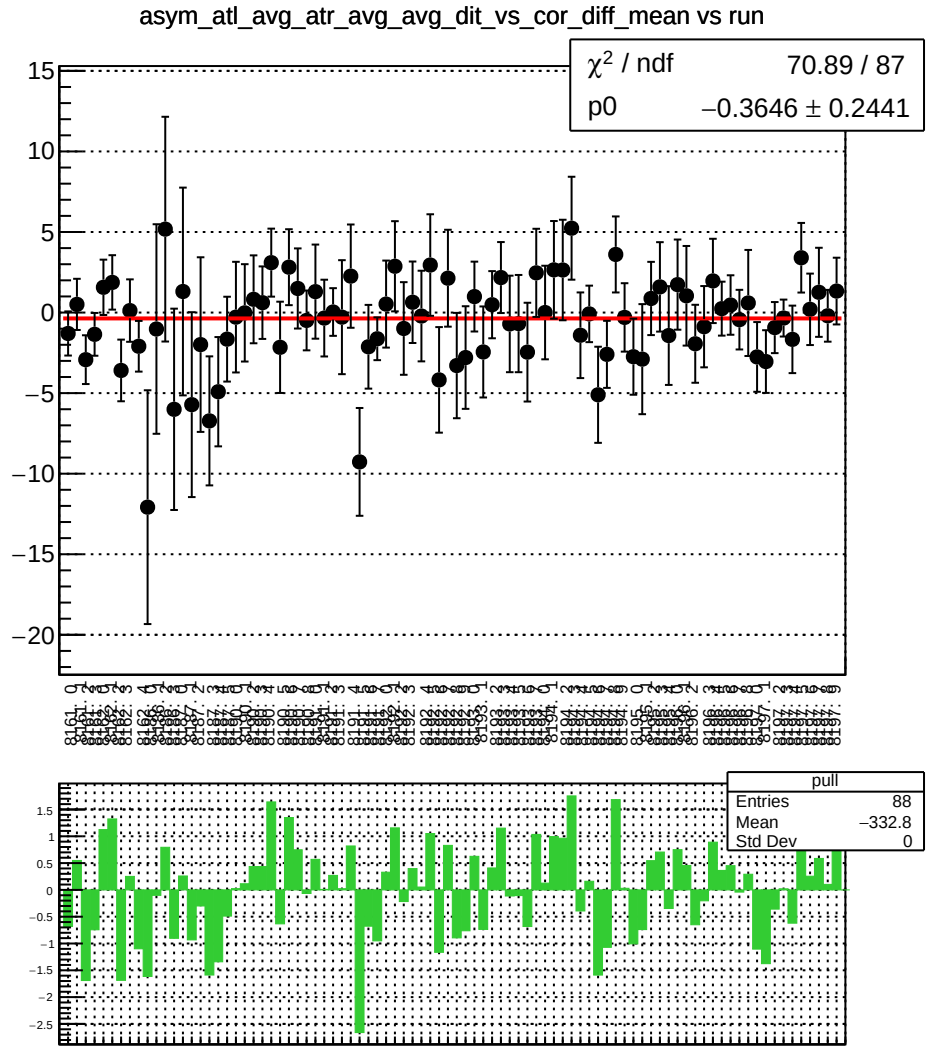

pull1D
Entries 88
Mean −0.003473
Std Dev 0.9313
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

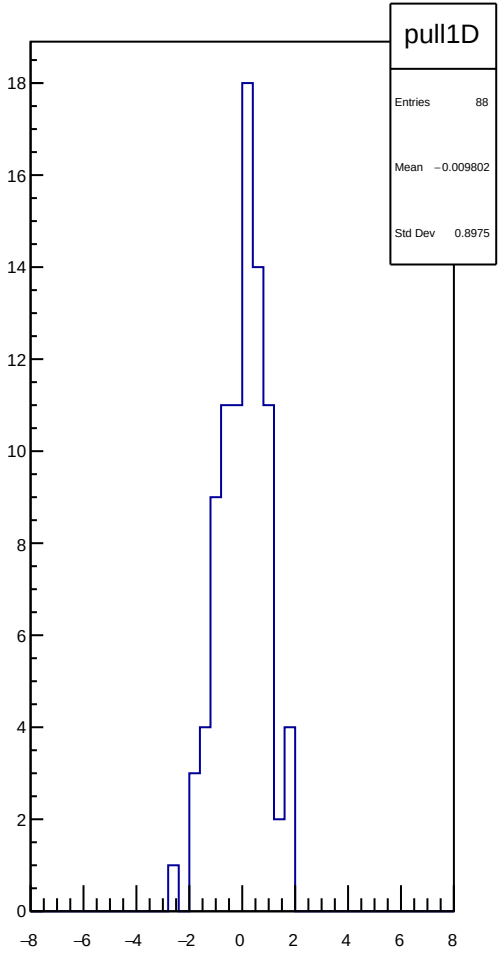

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5167 / 87
p0 6849 ± 5.313
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

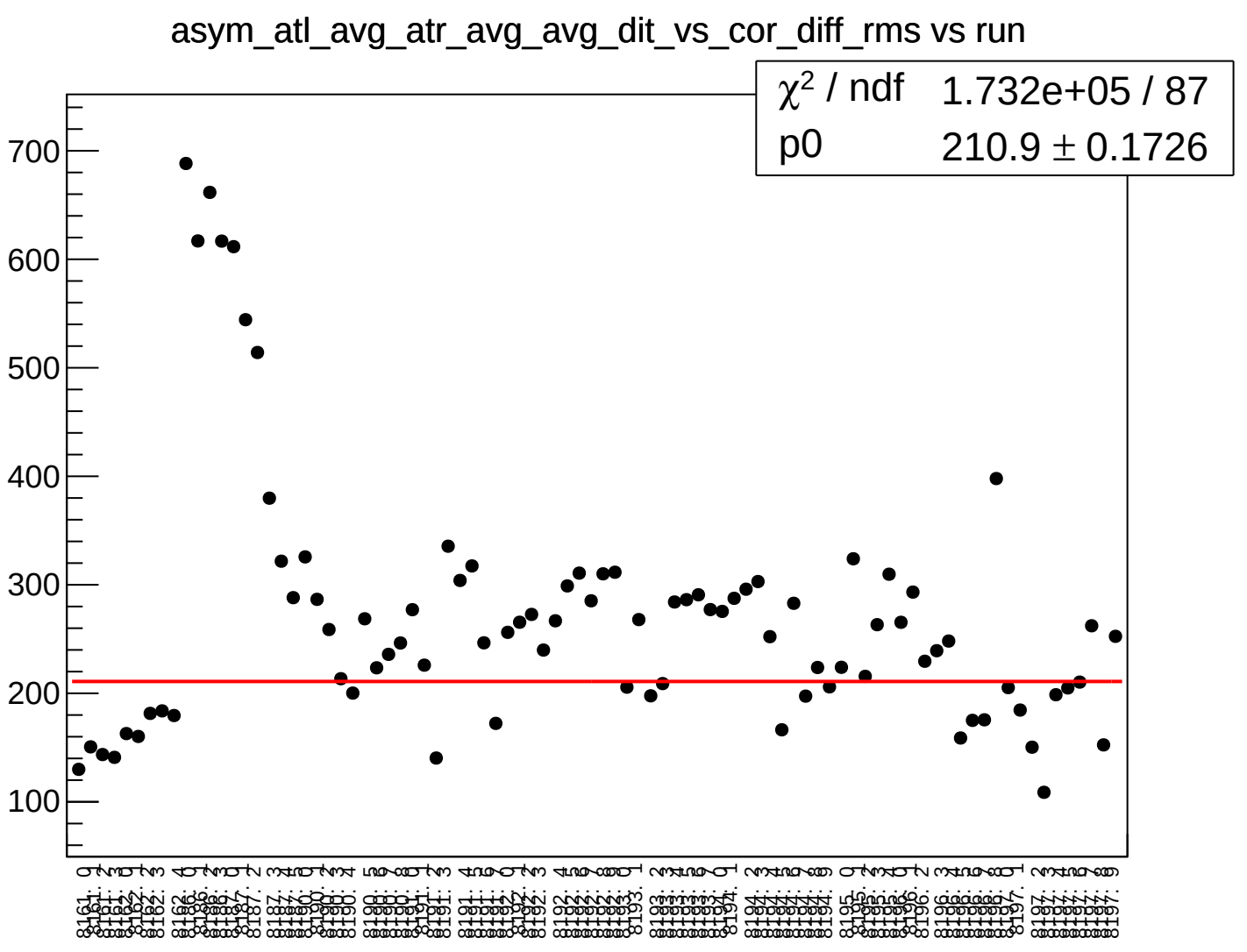

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.42 / 87
p0 4.919e−13 ± 9.22e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 60.47
Std Dev 27.45
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

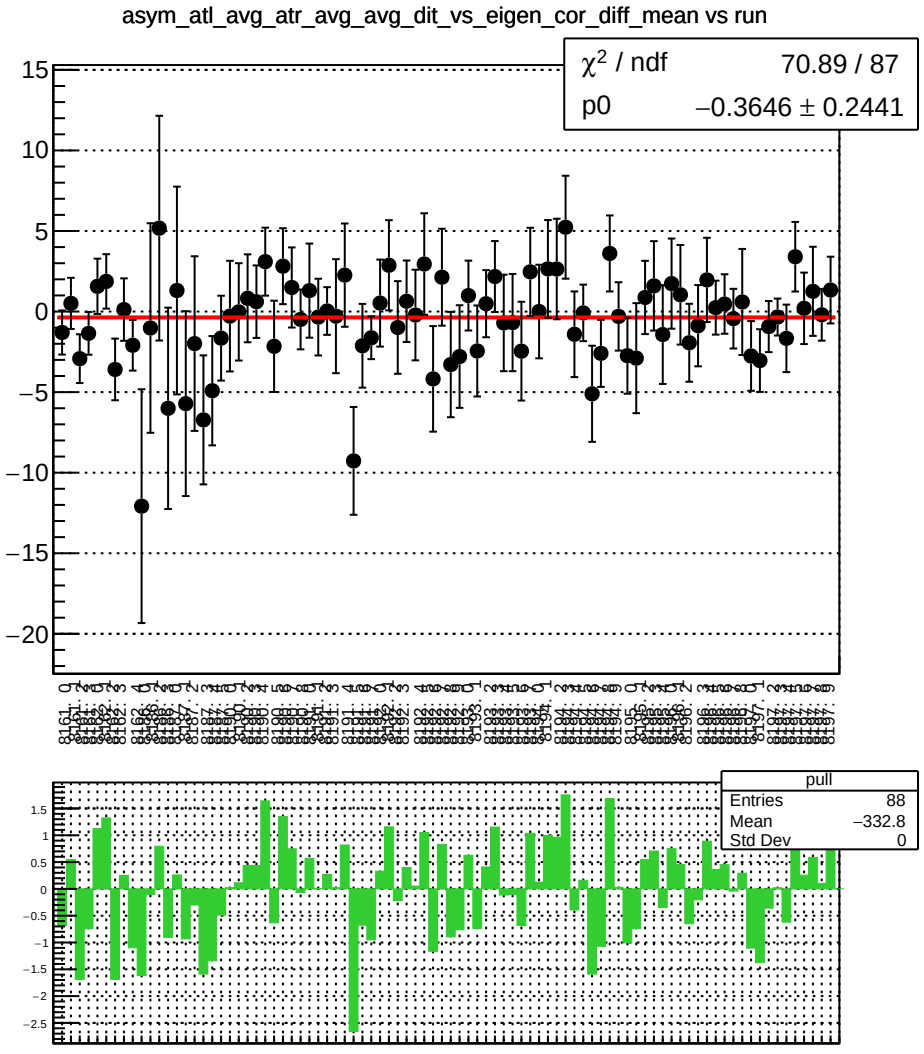

pull1D
Entries 88
Mean 0.1233
Std Dev 0.9539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

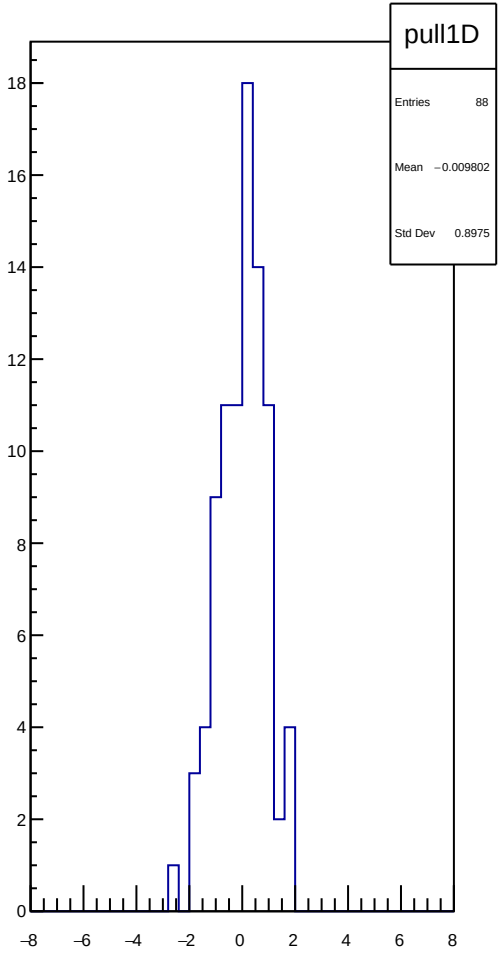

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.683e+05 / 87
p0 5.826e−10 ± 6.519e−13
1
0.8
0.6
0.4
0.2
0

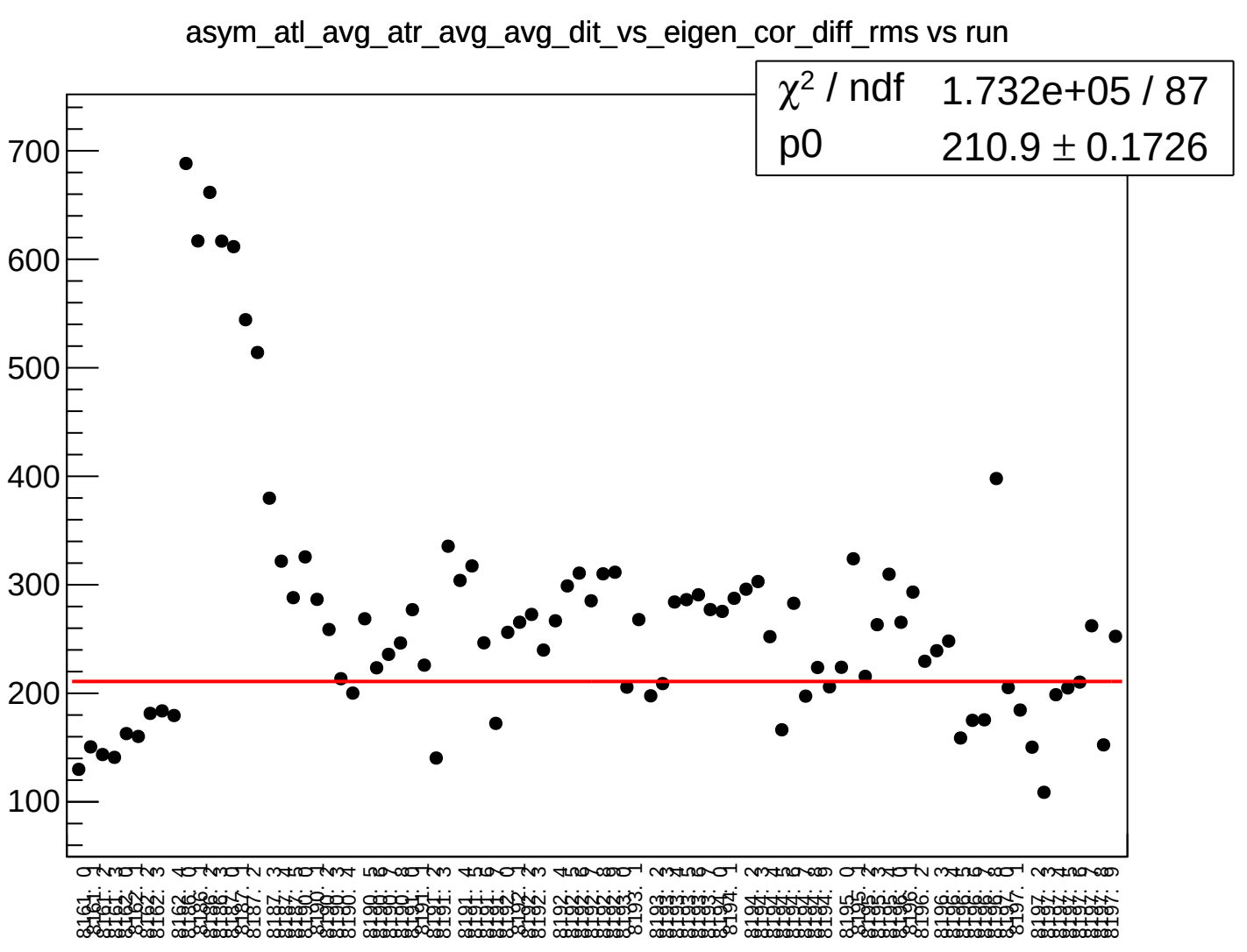

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.89 / 87
p0 −0.3646 ± 0.2441
pull
Entries 88
Mean −332.8
Std Dev 0

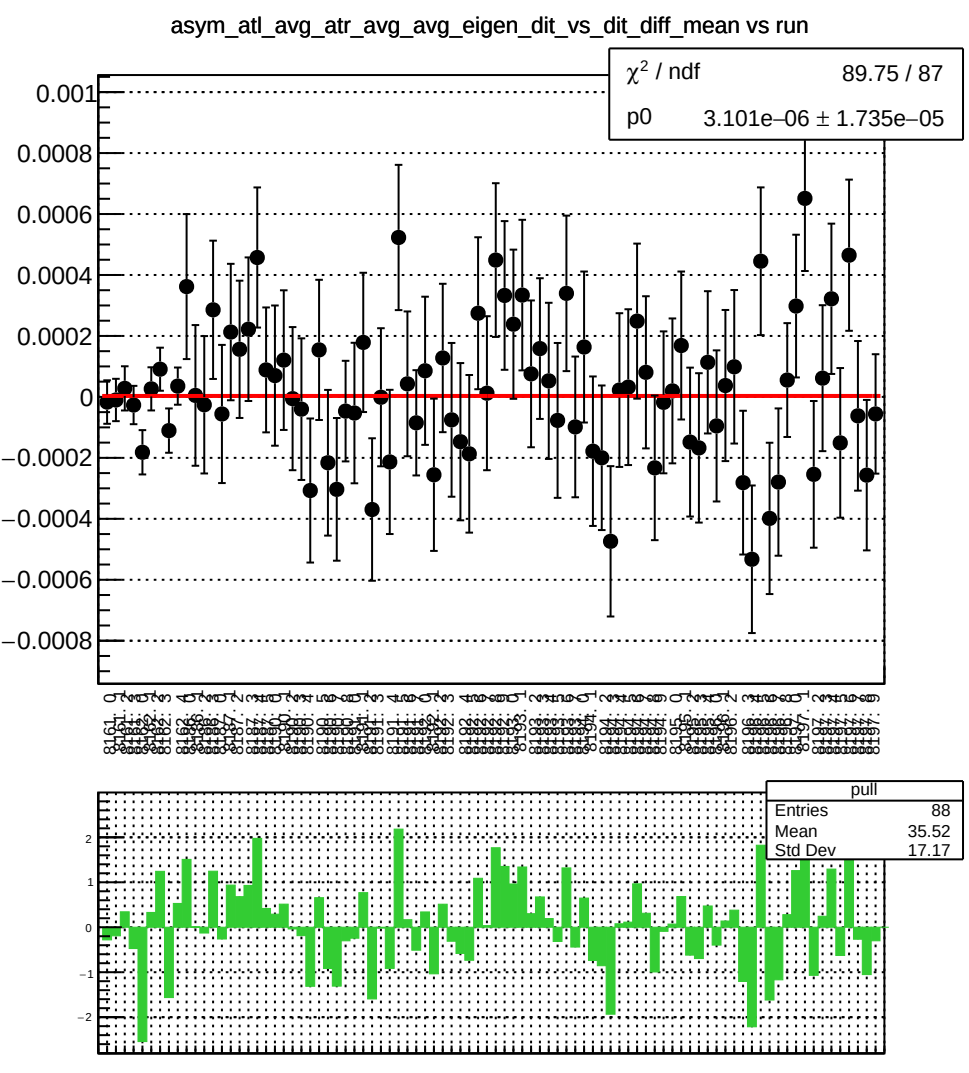

pull1D
Entries 88
Mean −0.009802
Std Dev 0.8975

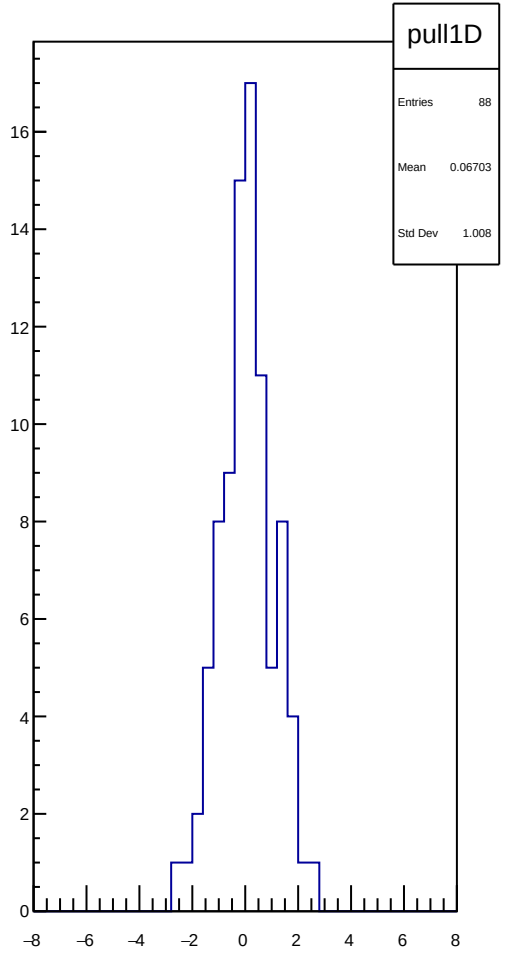

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.732e+05 / 87
p0 210.9 ± 0.1726
700
600
500
400
300
200
100

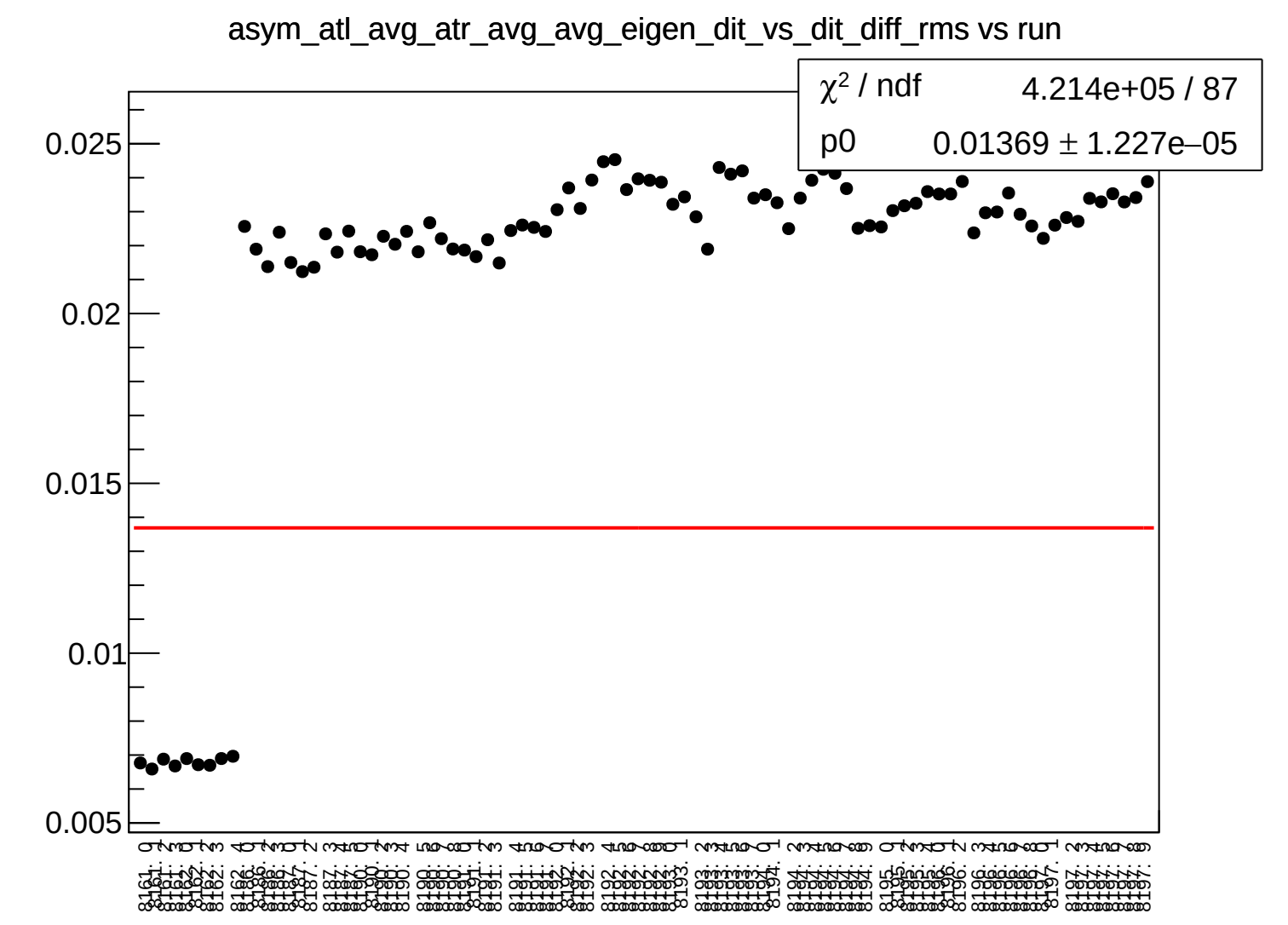

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.89 / 87
p0 −0.3646 ± 0.2441
pull
Entries 88
Mean −332.8
Std Dev 0

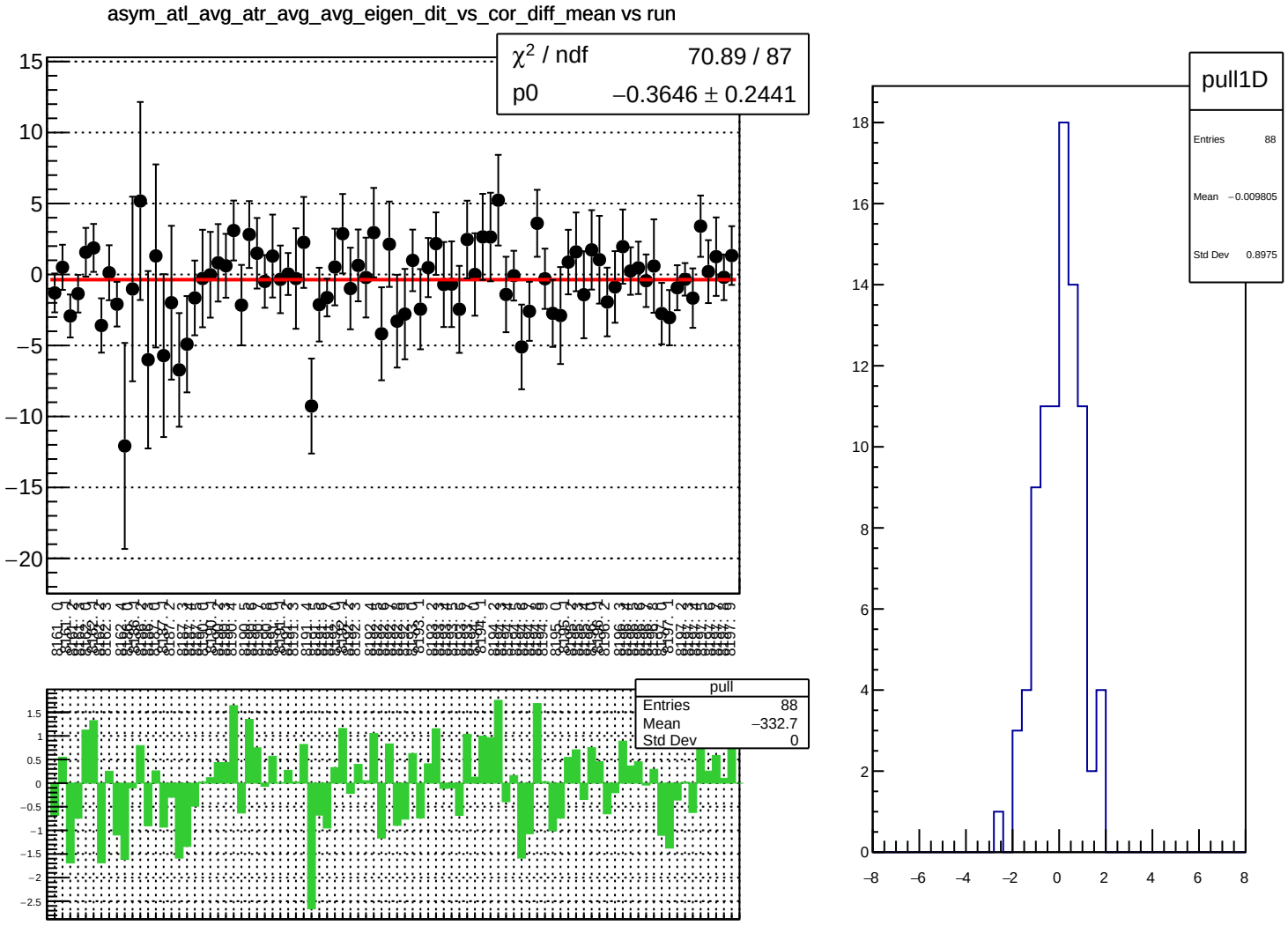

pull1D
Entries 88
Mean −0.009802
Std Dev 0.8975

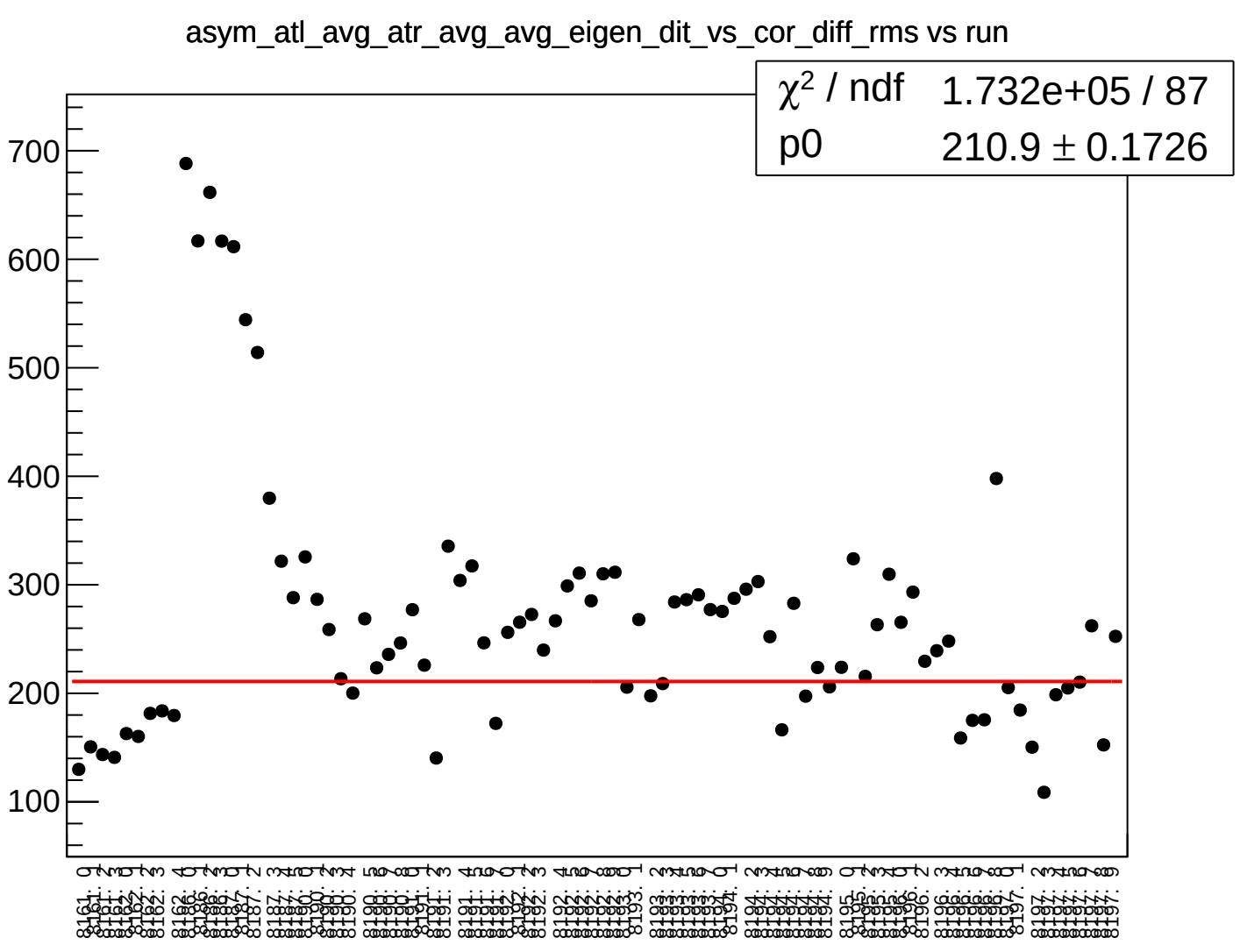

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.732e+05 / 87
p0 210.9 ± 0.1726
700
600
500
400
300
200
100

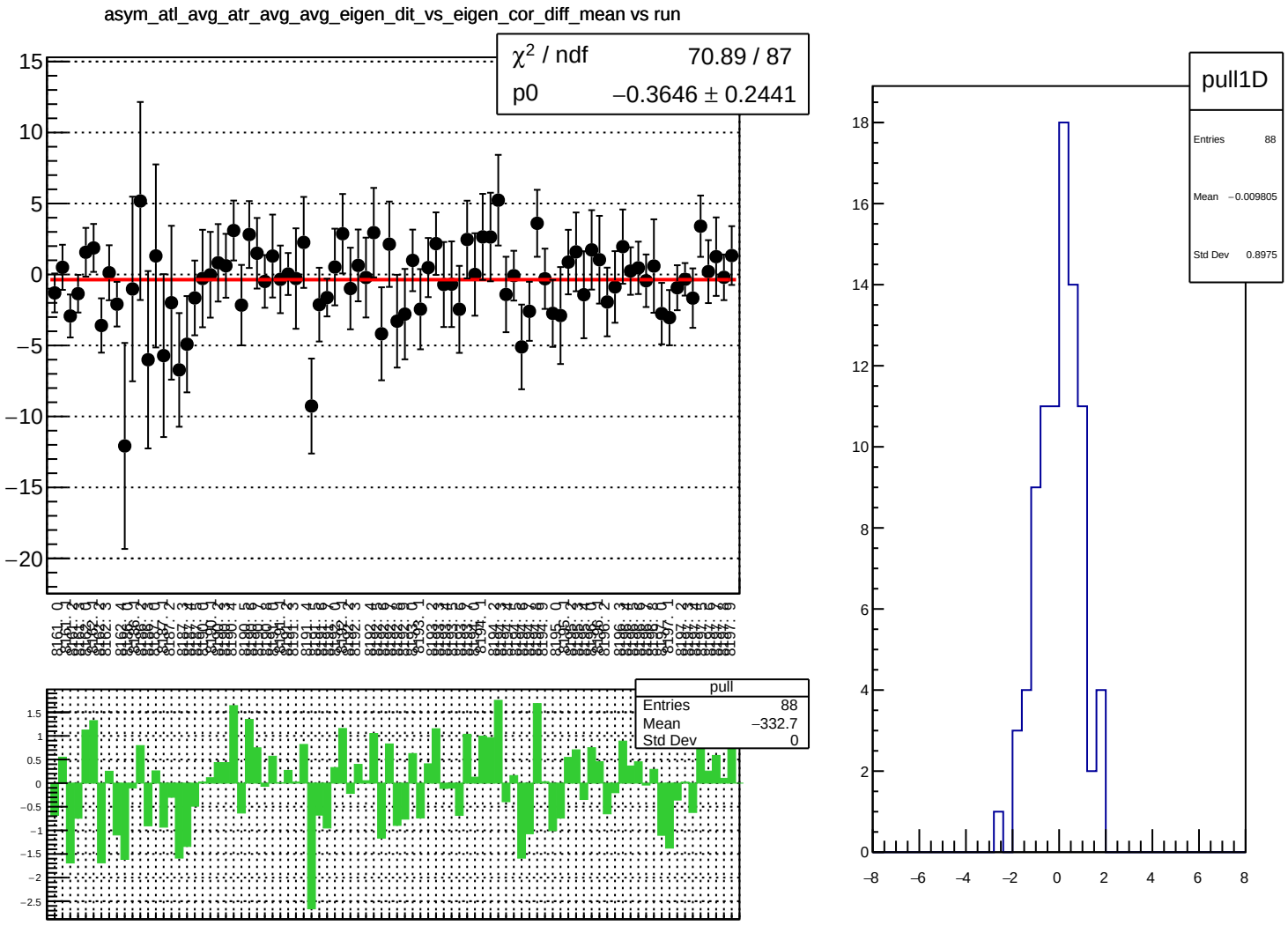

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.75 / 87
p0 3.101e−06 ± 1.735e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 88
Mean 35.52
Std Dev 17.17
2
1
0
−1
−2

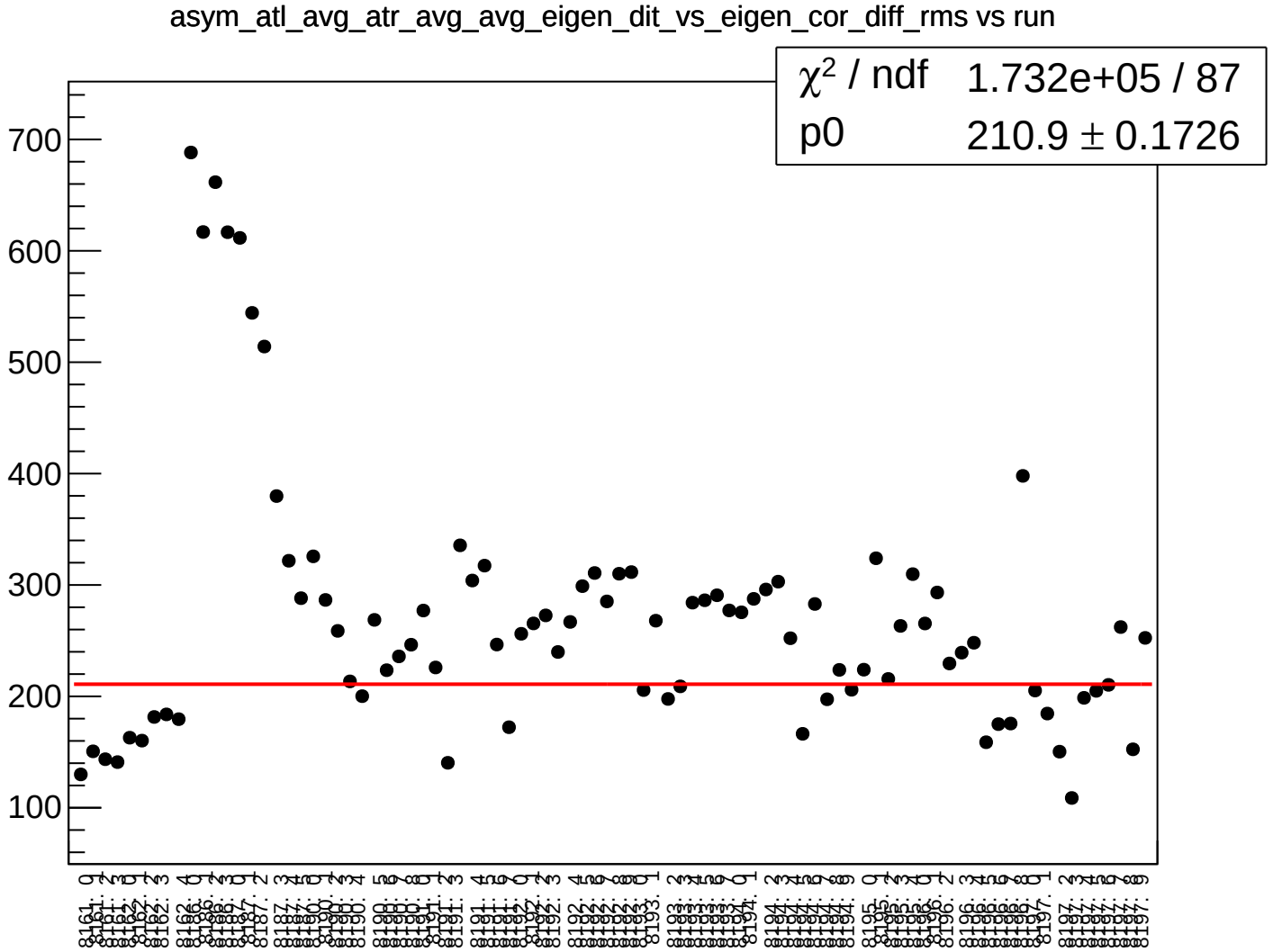

pull1D
Entries 88
Mean 0.06703
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

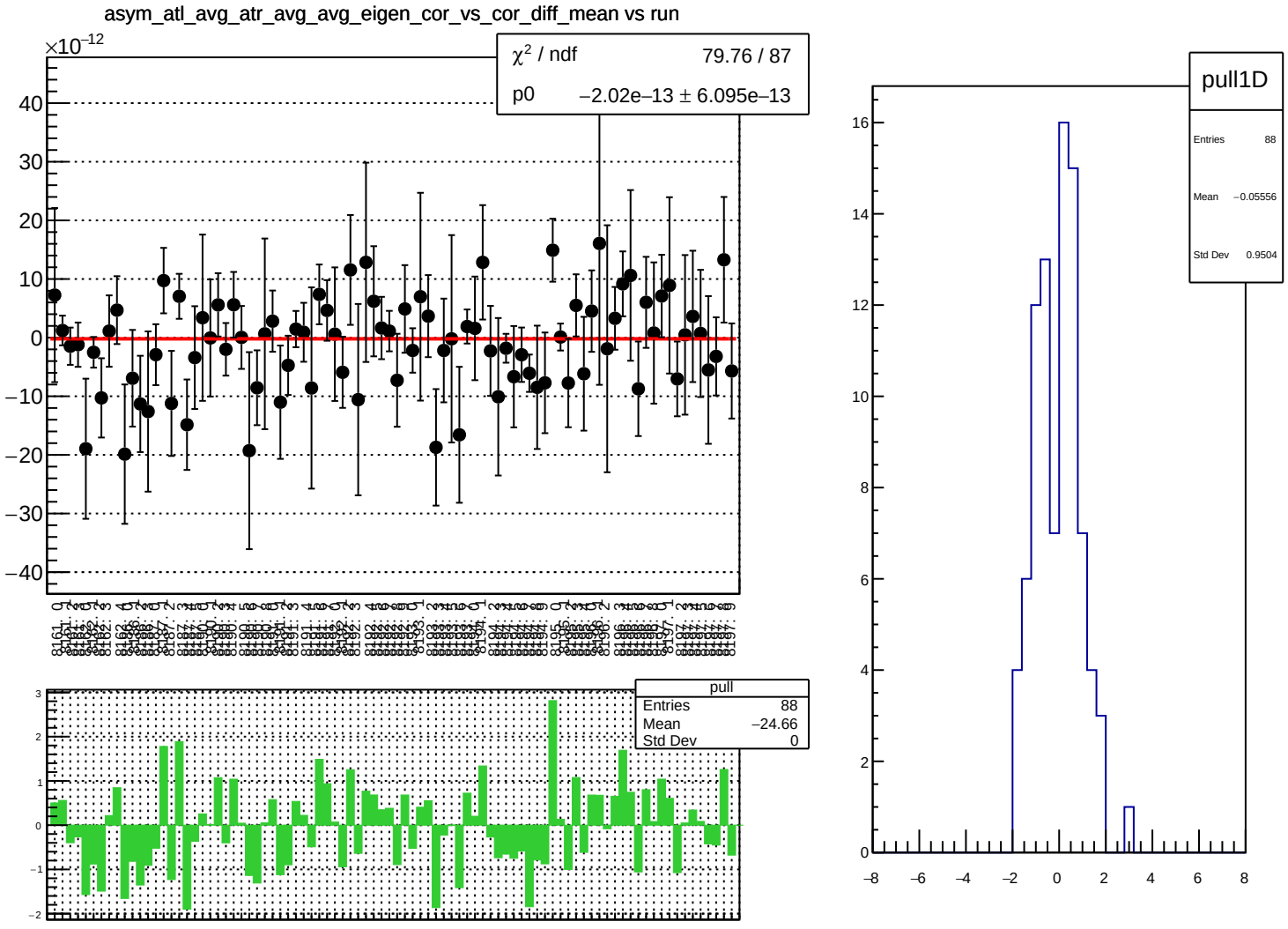

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.214e+05 / 87
p0 0.01369 ± 1.227e−05
0.025
0.02
0.015
0.01
0.005

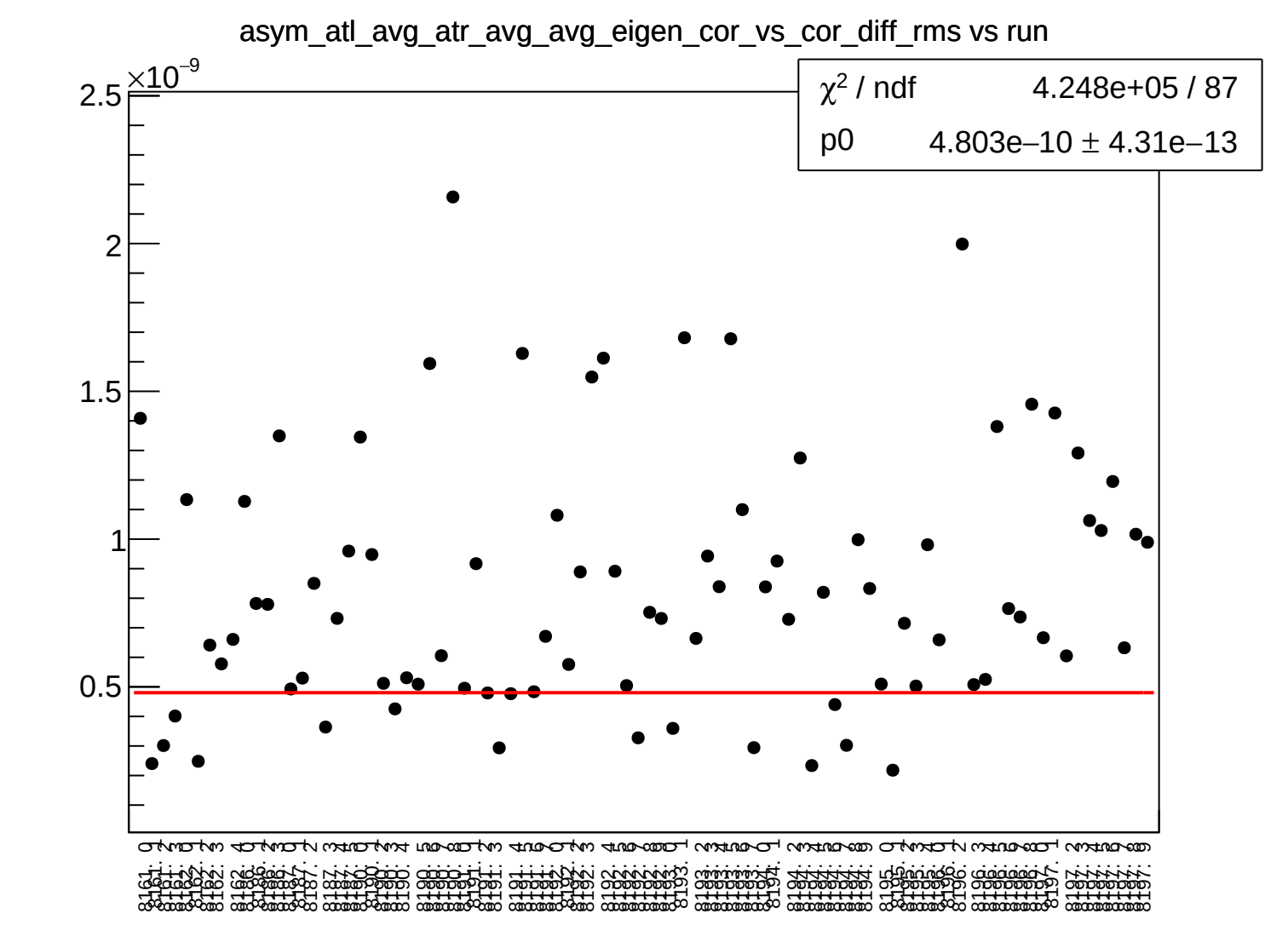

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.89 / 87
p0 −0.3646 ± 0.2441
pull
Entries 88
Mean −332.7
Std Dev 0
pull1D
Entries 88
Mean −0.009805
Std Dev 0.8975

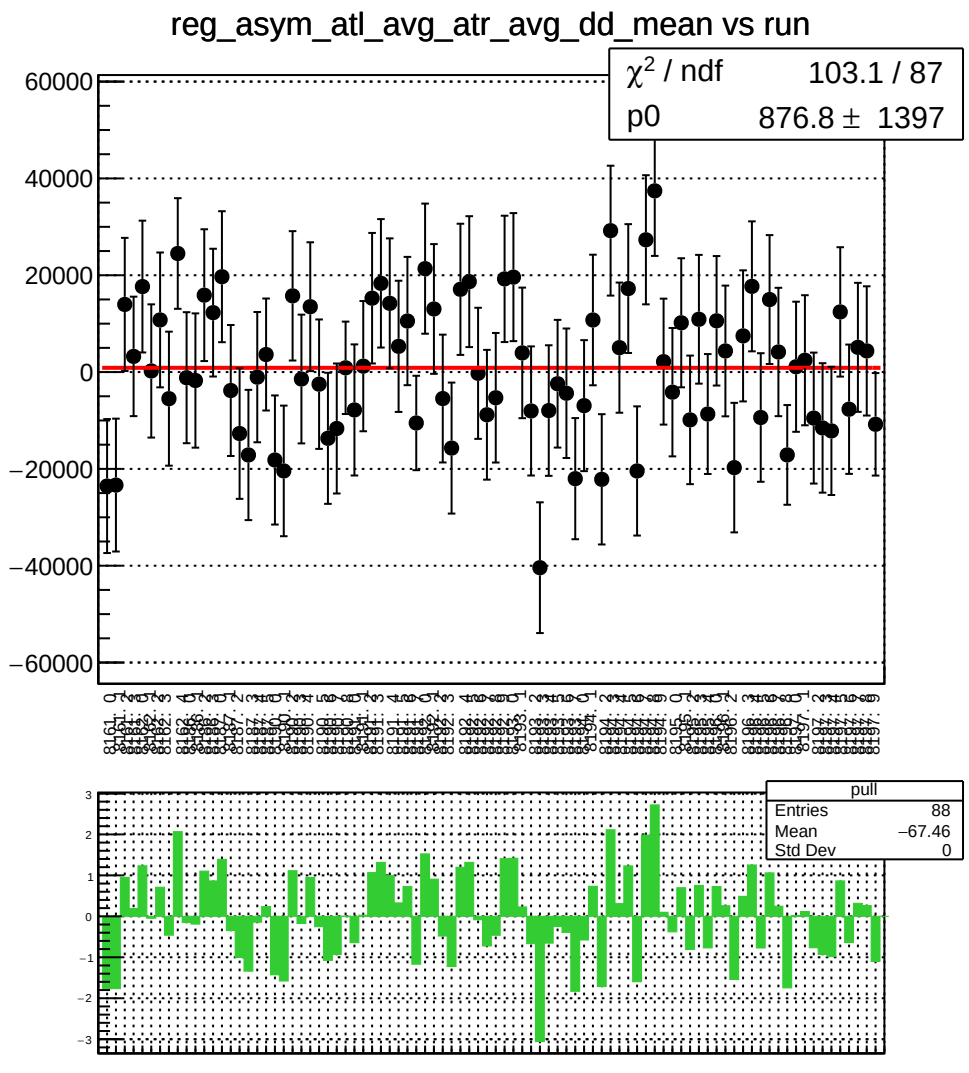

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.732e+05 / 87
p0 210.9 ± 0.1726
700
600
500
400
300
200
100

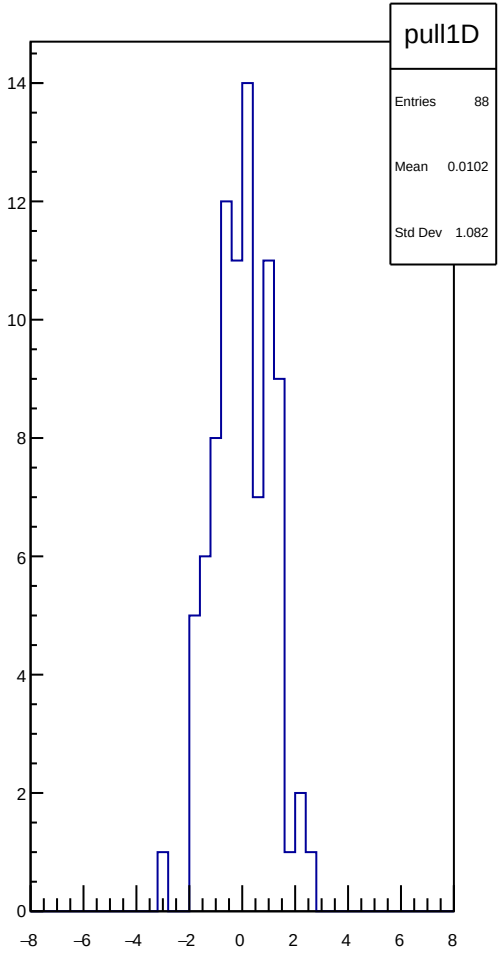

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.89 / 87
p0 −0.3646 ± 0.2441
pull
Entries 88
Mean −332.7
Std Dev 0
pull1D
Entries 88
Mean −0.009805
Std Dev 0.8975

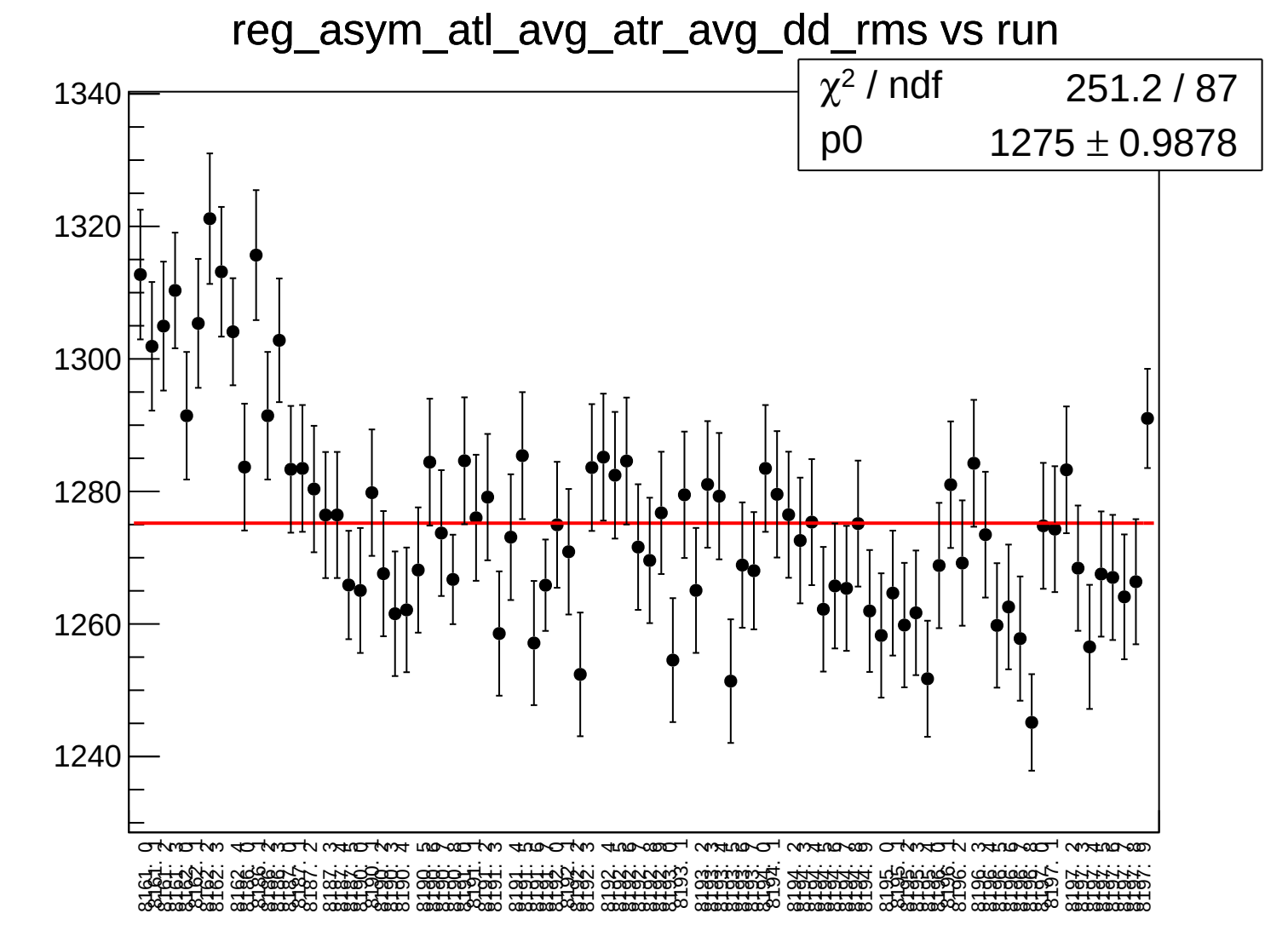

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.732e+05 / 87
p0 210.9 ± 0.1726
700
600
500
400
300
200
100

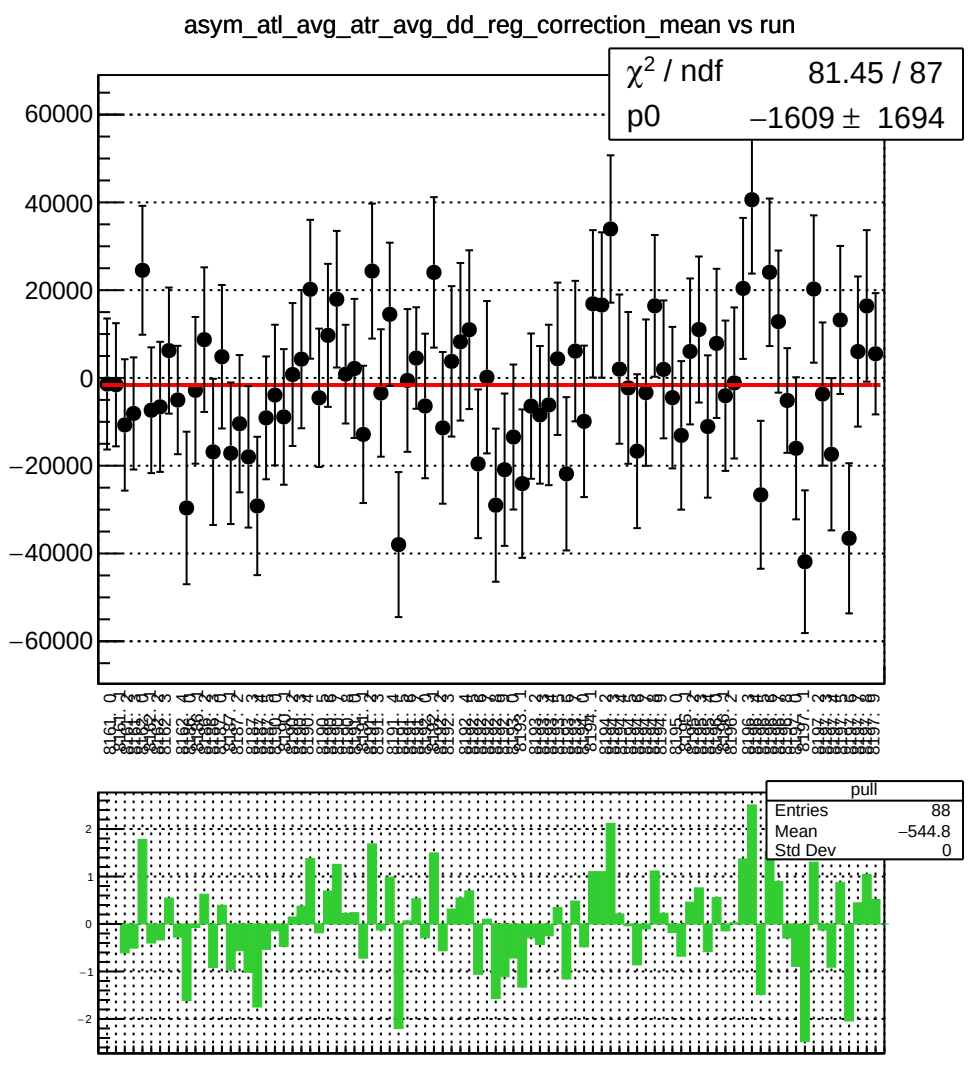

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.76 / 87
p0 −2.02e−13 ± 6.095e−13
pull
Entries 88
Mean −24.66
Std Dev 0
pull1D
Entries 88
Mean −0.05556
Std Dev 0.9504

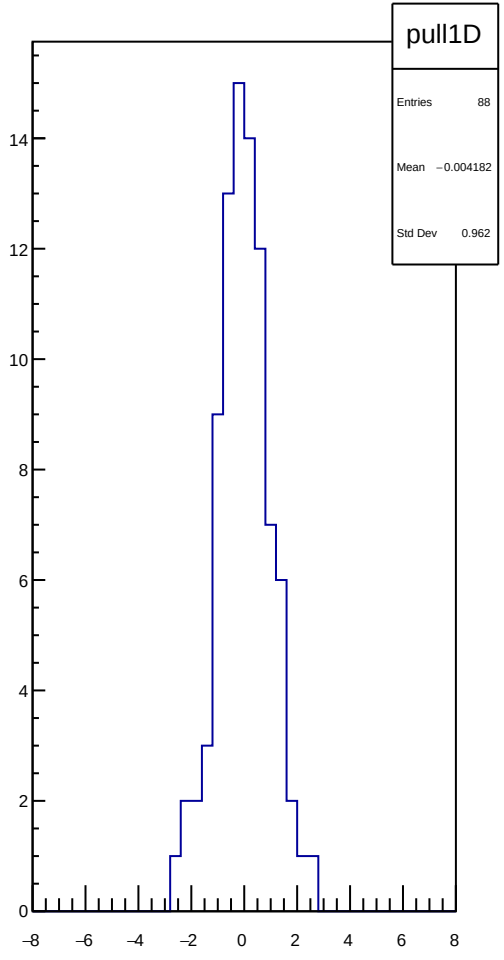

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 4.248e+05 / 87
p0 4.803e−10 ± 4.31e−13

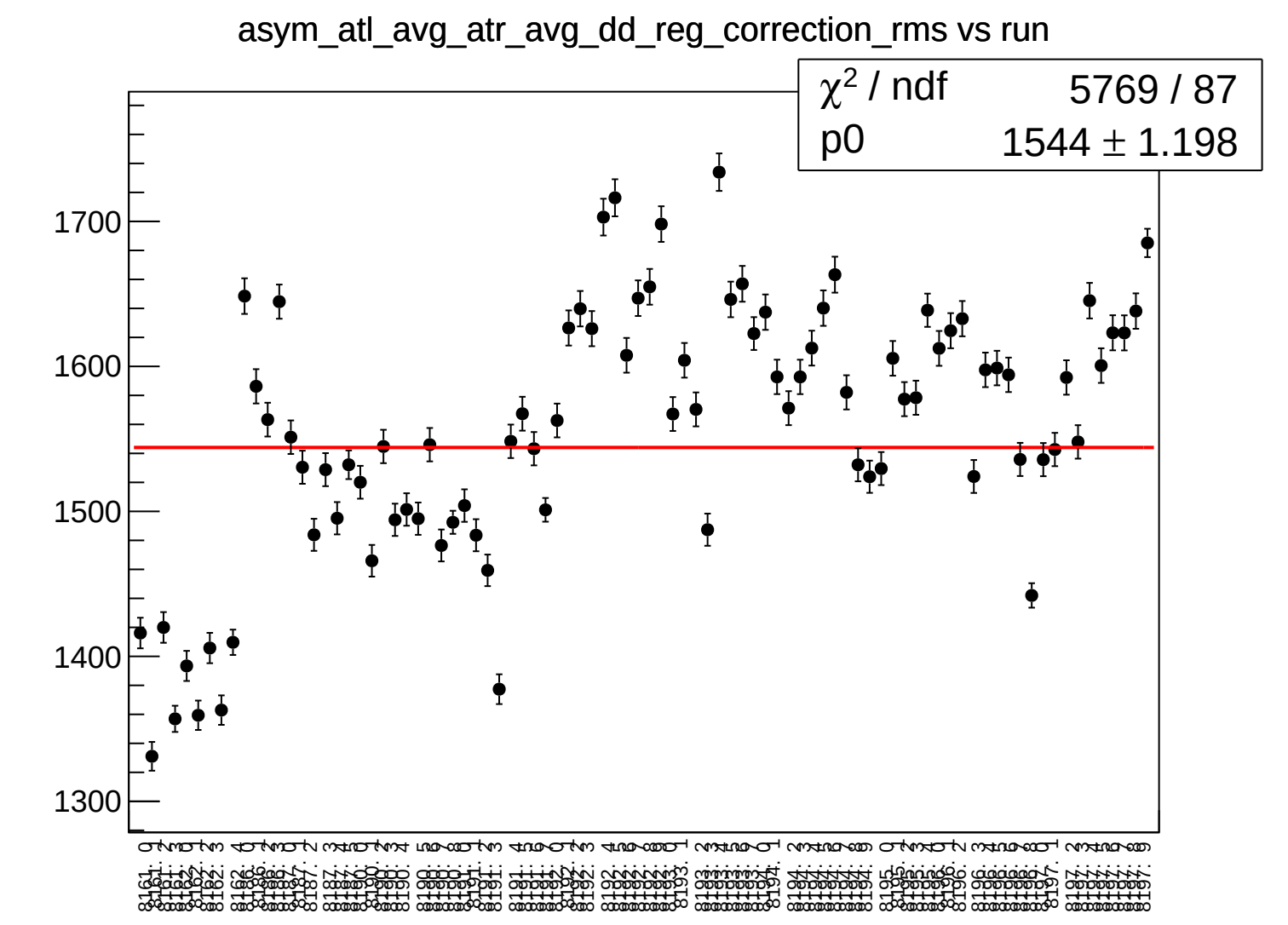

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 103.1 / 87
p0 876.8 ± 1397
pull
Entries 88
Mean −67.46
Std Dev 0

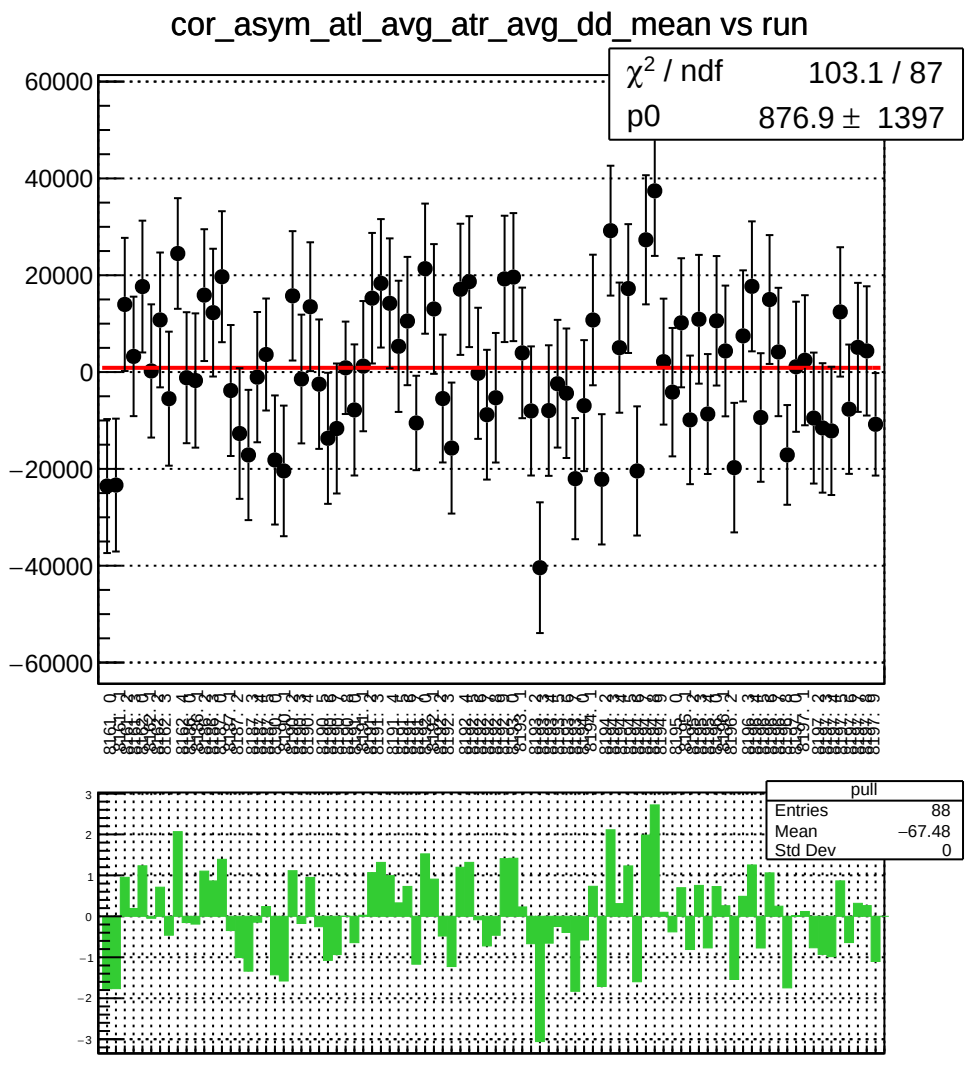

pull1D
Entries 88
Mean 0.0102
Std Dev 1.082

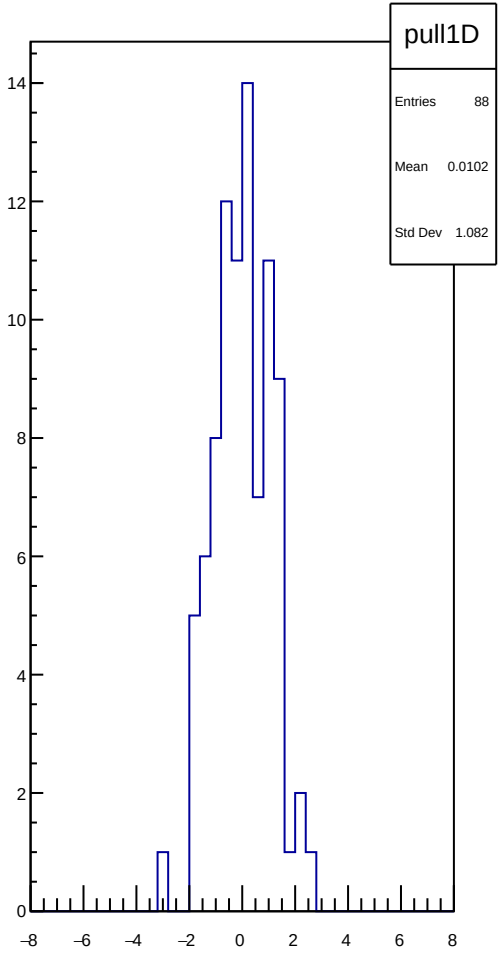

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 251.2 / 87
p0 1275 ± 0.9878
1340
1320
1300
1280
1260
1240

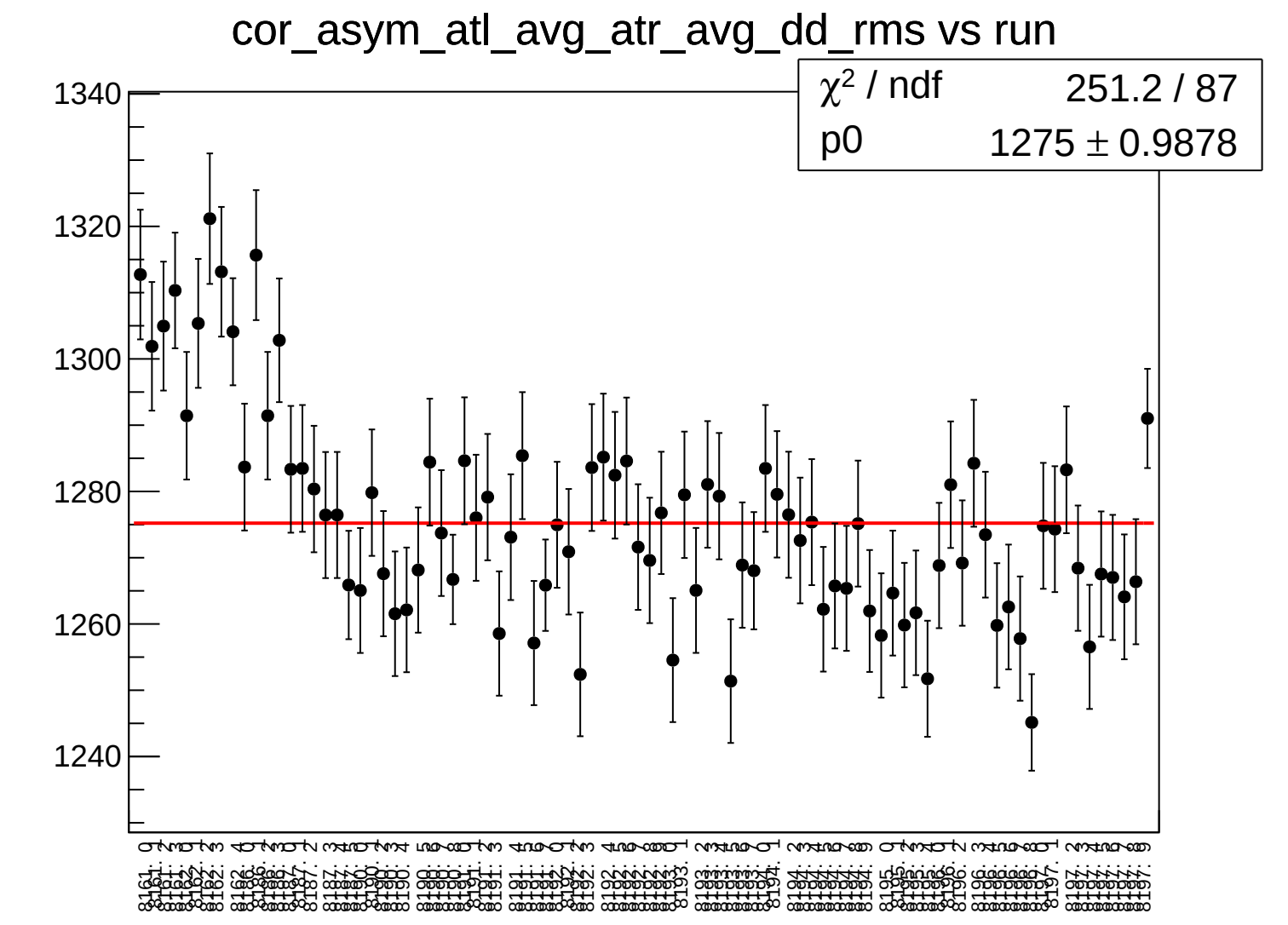

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 81.45 / 87
p0 −1609 ± 1694
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −544.8
Std Dev 0
2
1
0
−1
−2

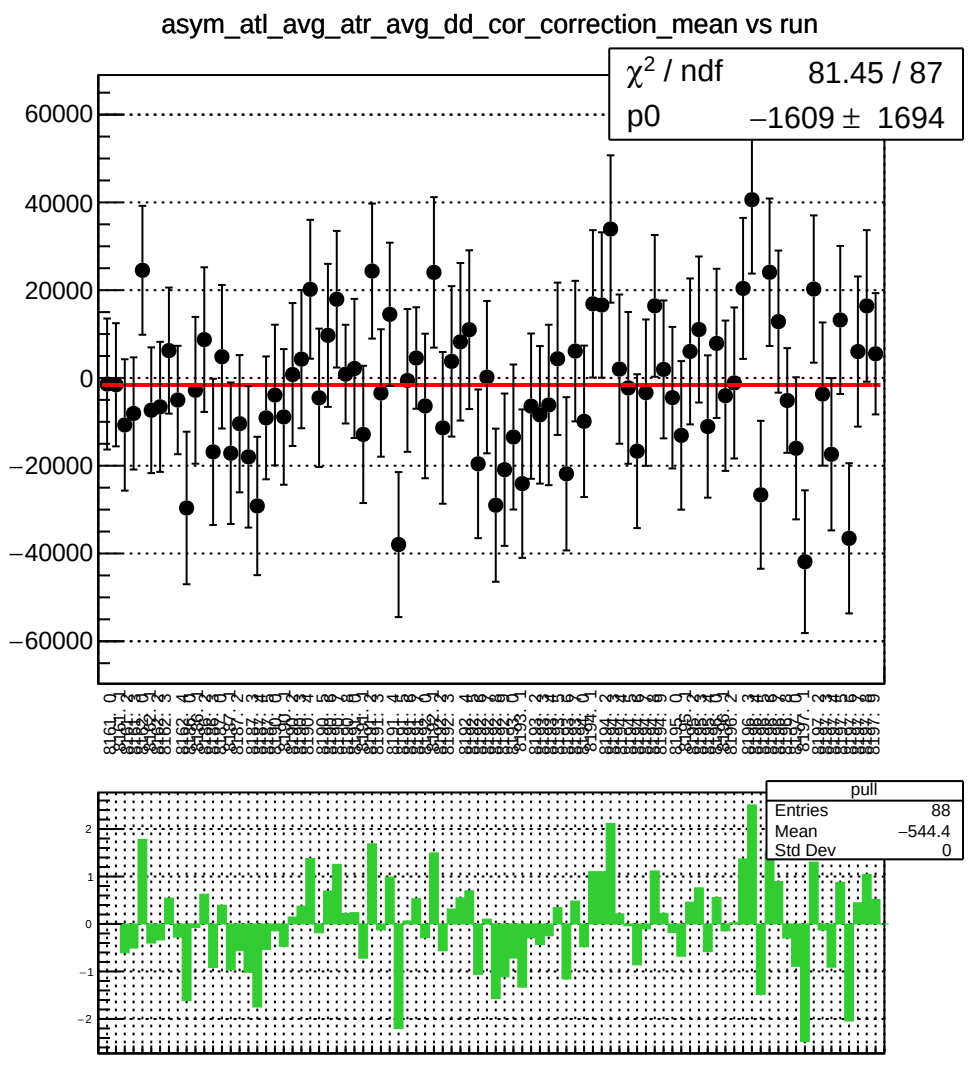

pull1D
Entries 88
Mean −0.004182
Std Dev 0.962
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

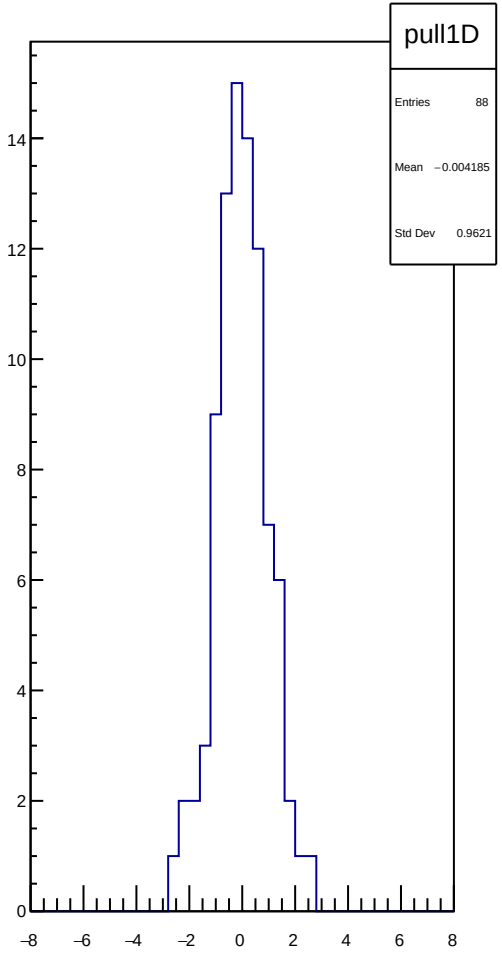

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 5769 / 87
p0 1544 ± 1.198
1700
1600
1500
1400
1300

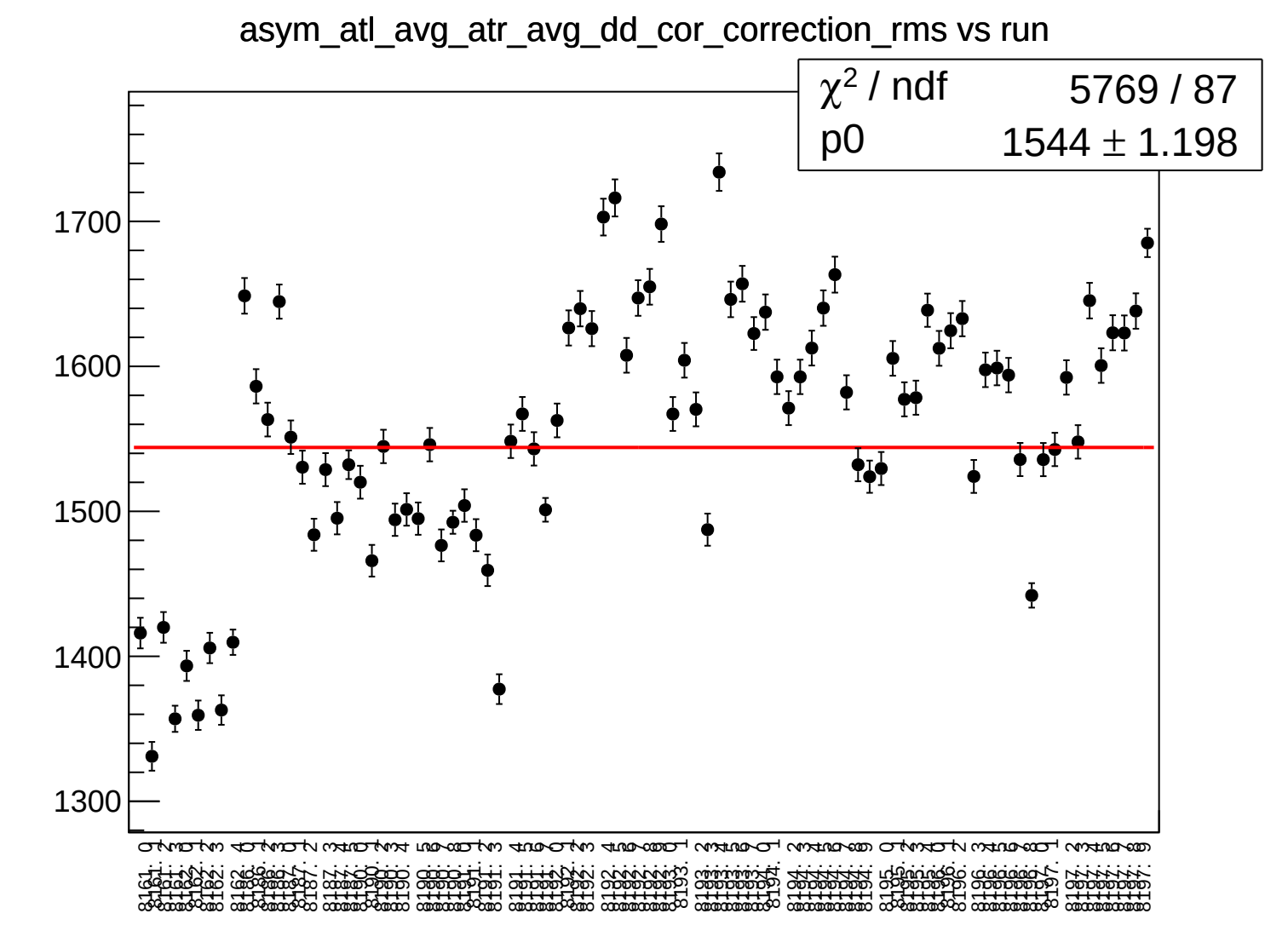

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 103.1 / 87
p0 876.9 ± 1397
pull
Entries 88
Mean −67.48
Std Dev 0

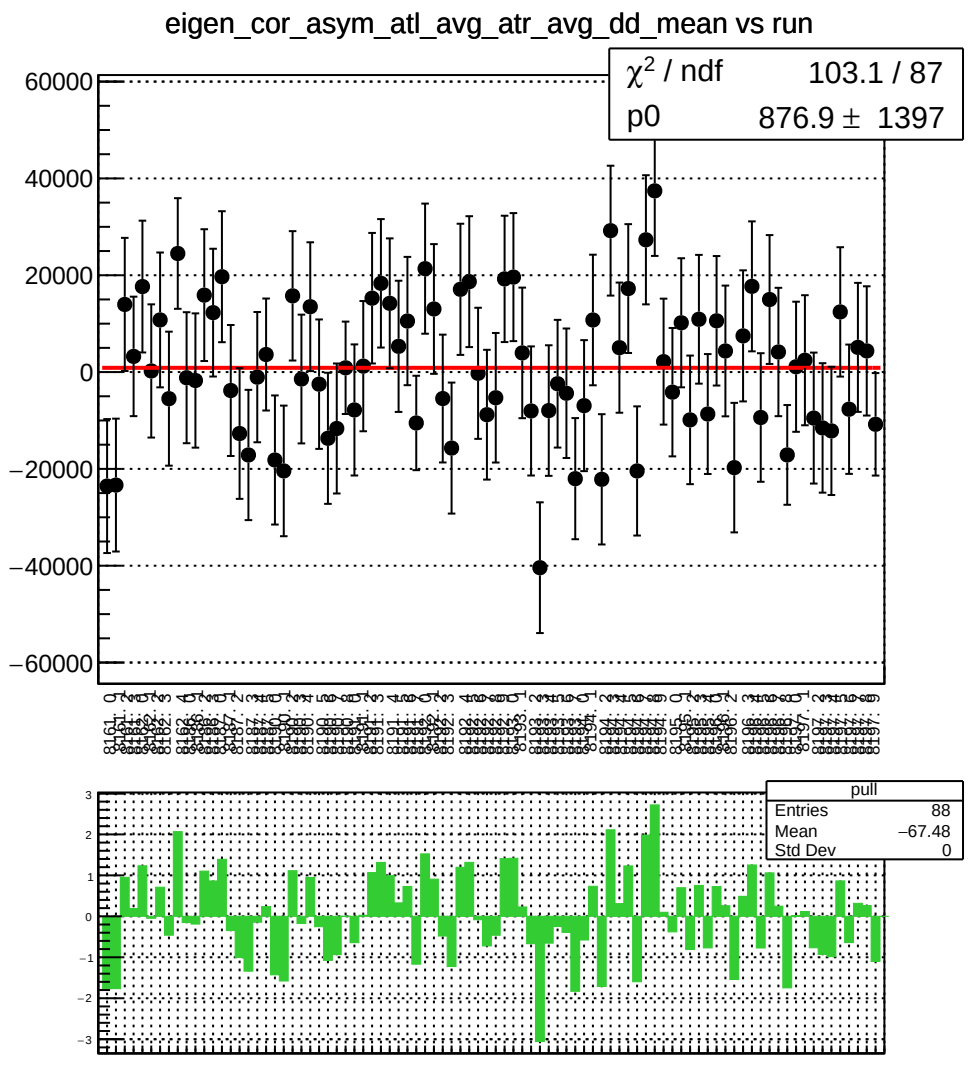

pull1D
Entries 88
Mean 0.0102
Std Dev 1.082

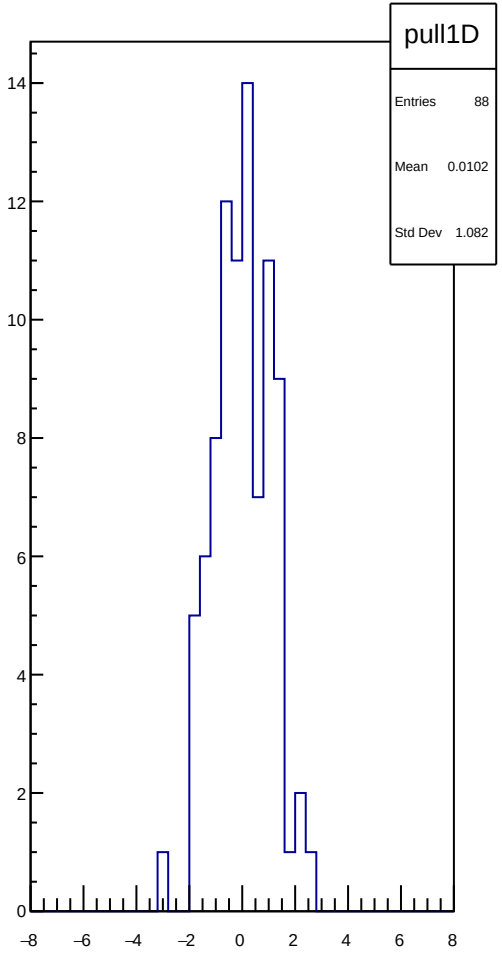

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 251.2 / 87
p0 1275 ± 0.9878
1340
1320
1300
1280
1260
1240

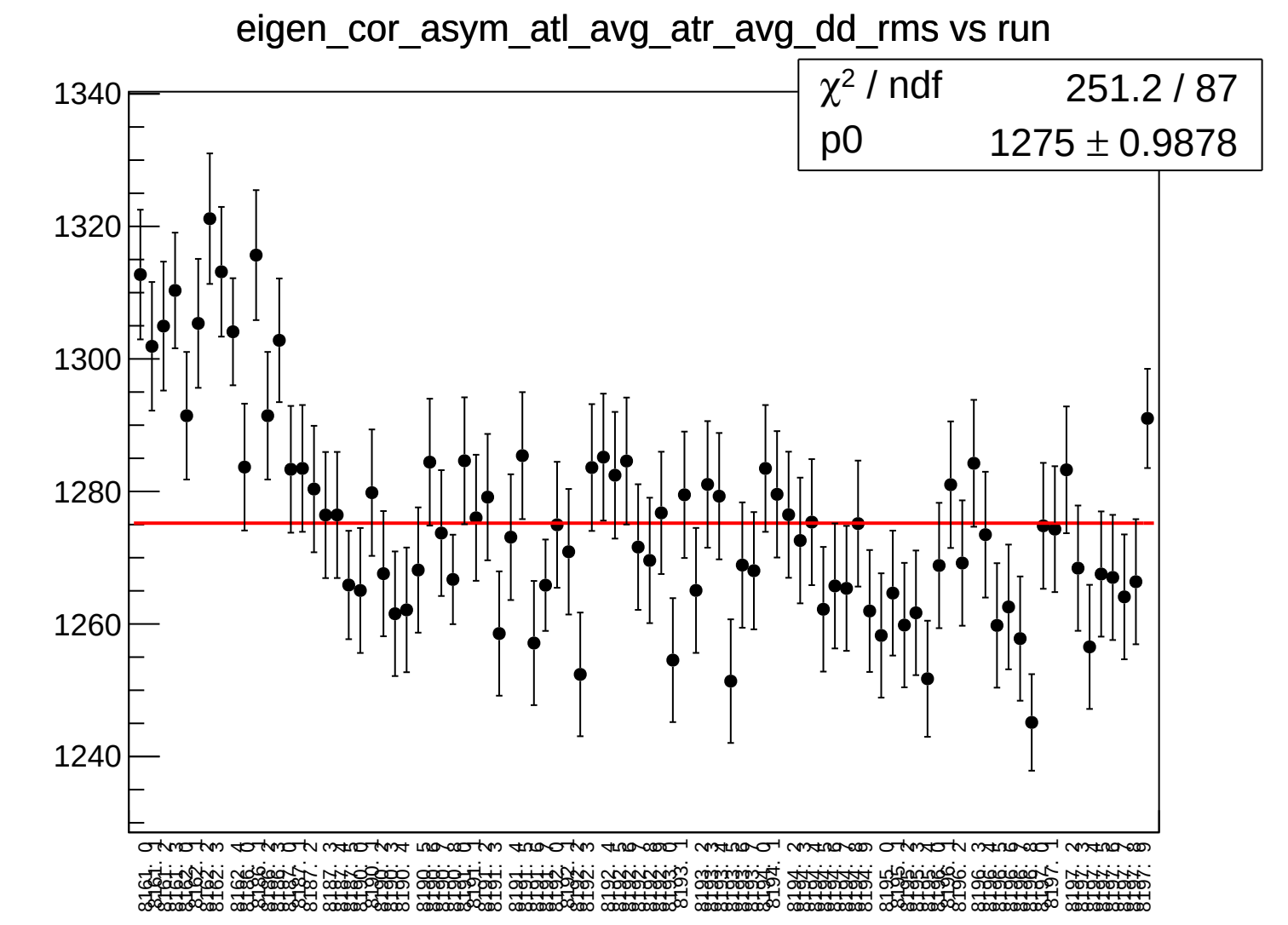

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 81.45 / 87
p0 −1609 ± 1694
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −544.4
Std Dev 0
2
1
0
−1
−2

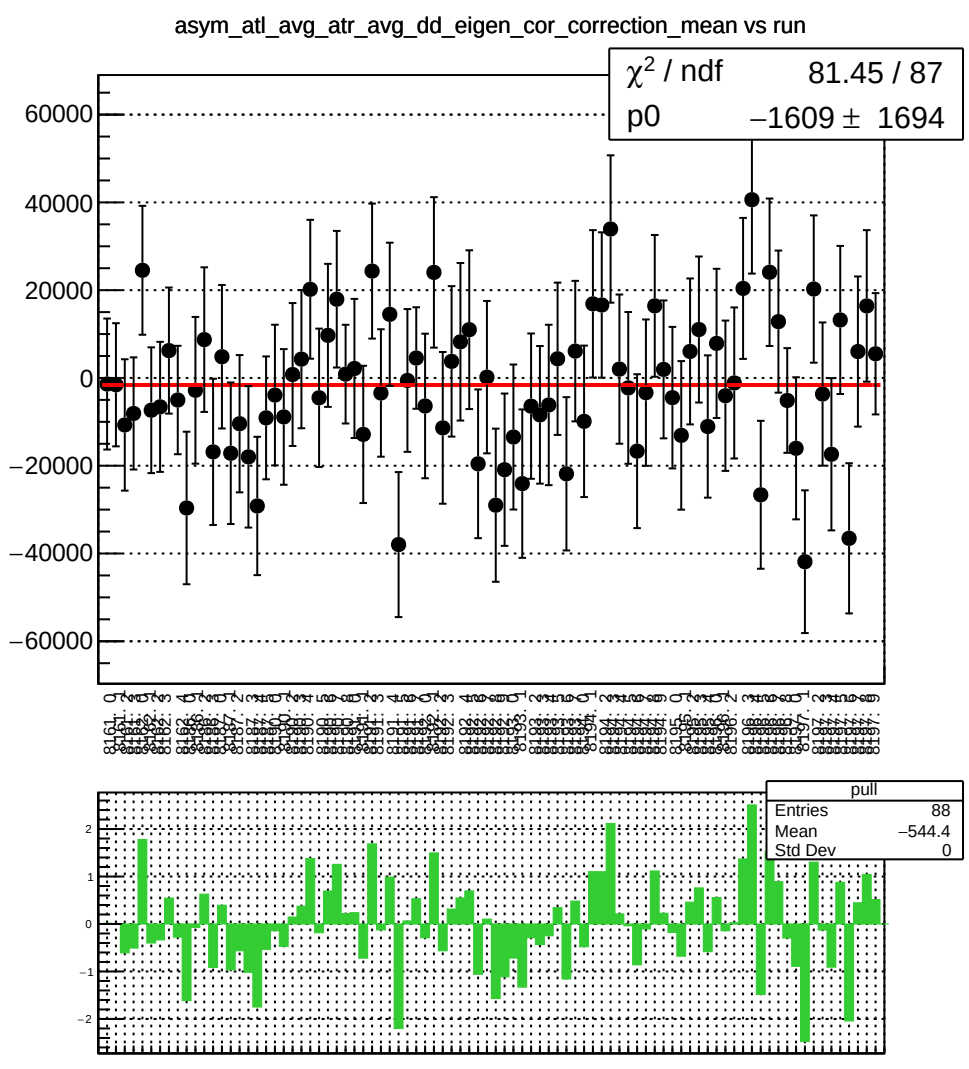

pull1D
Entries 88
Mean −0.004185
Std Dev 0.9621
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

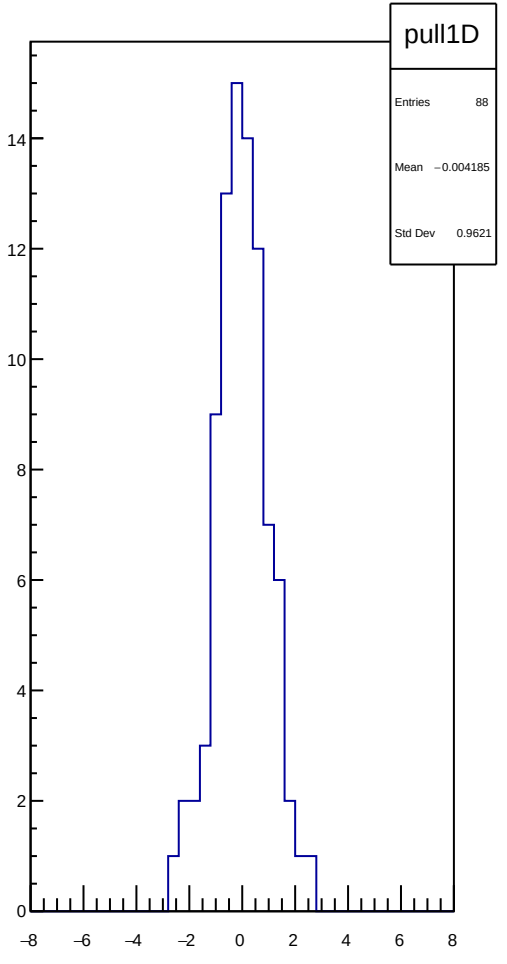

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 5769 / 87
p0 1544 ± 1.198
1700
1600
1500
1400
1300

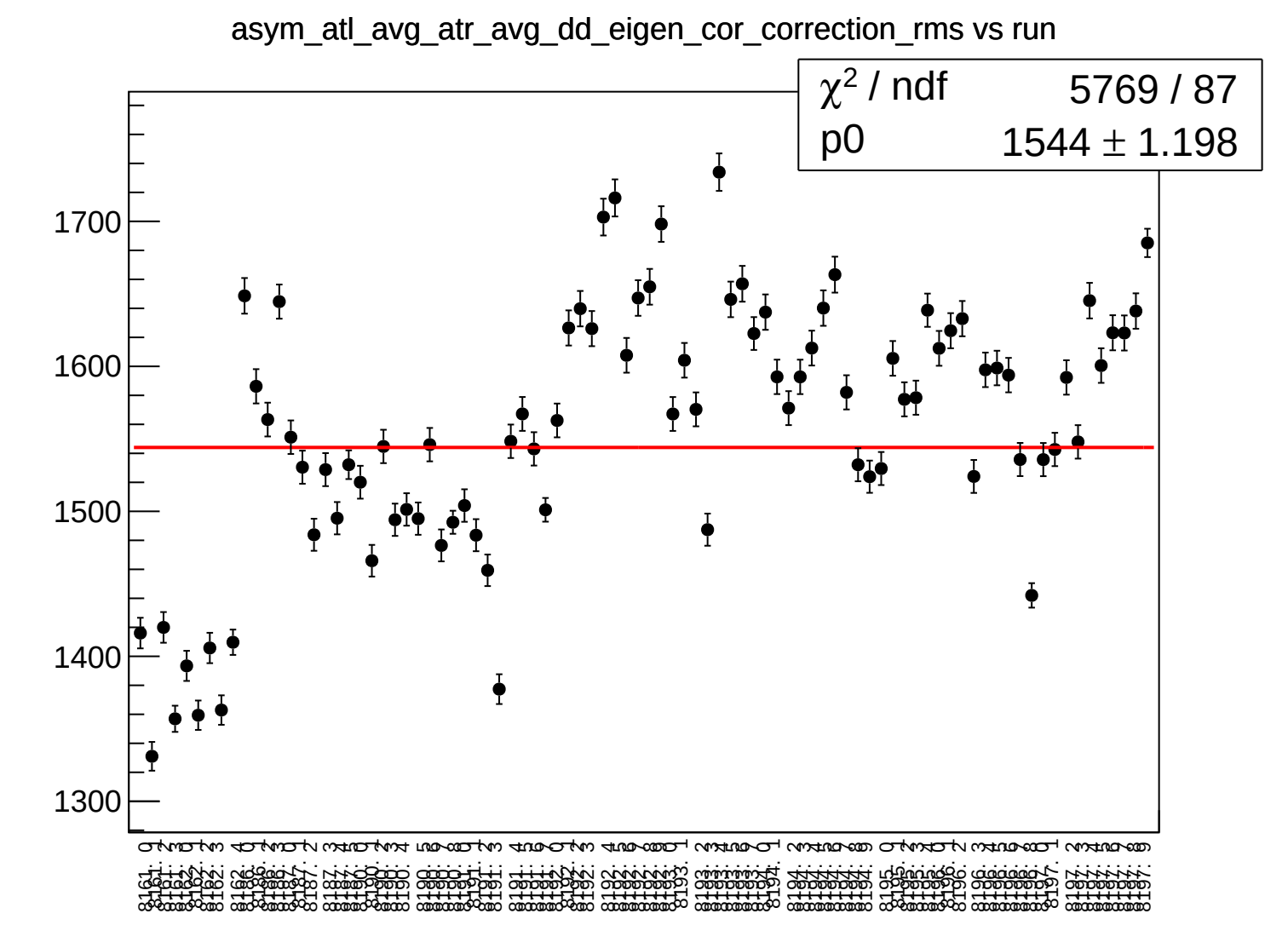

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 103.1 / 87
p0 876.9 ± 1397
pull
Entries 88
Mean −67.48
Std Dev 0

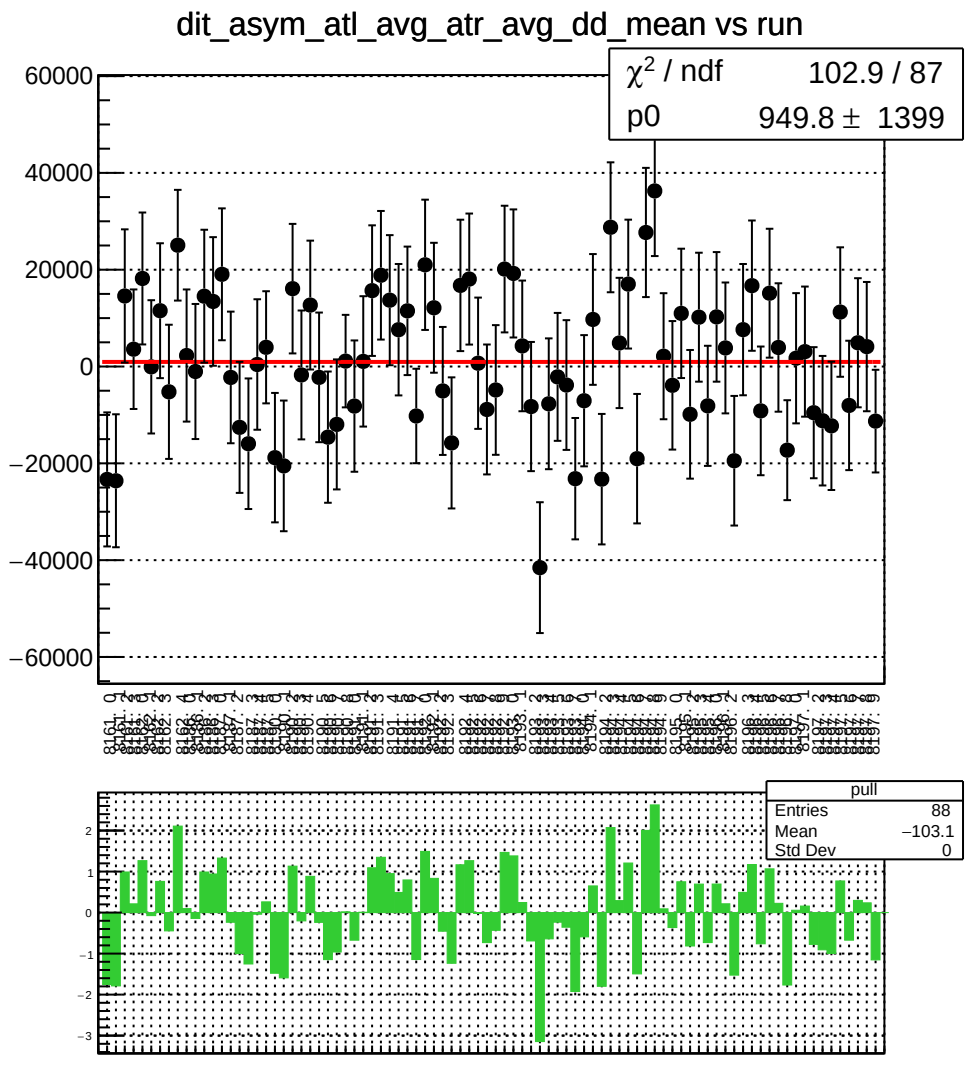

pull1D
Entries 88
Mean 0.0102
Std Dev 1.082

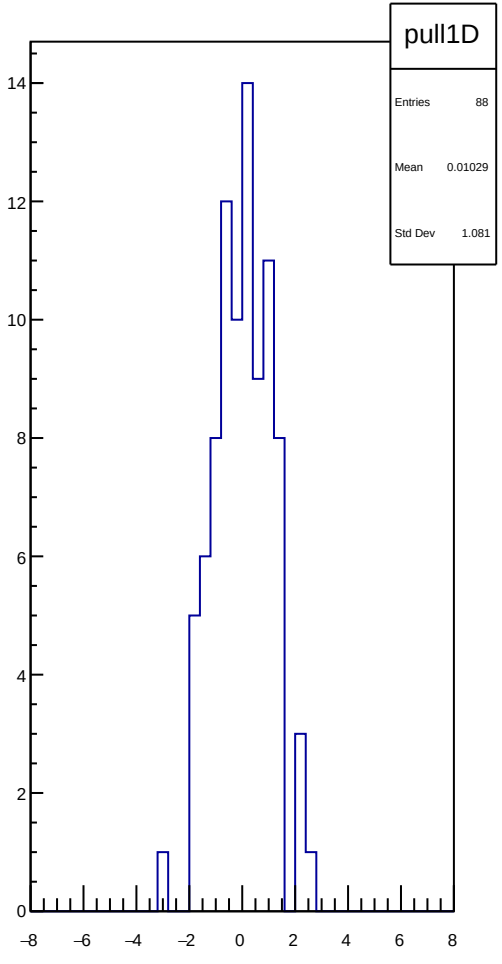

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 251.2 / 87
p0 1275 ± 0.9878
1340
1320
1300
1280
1260
1240

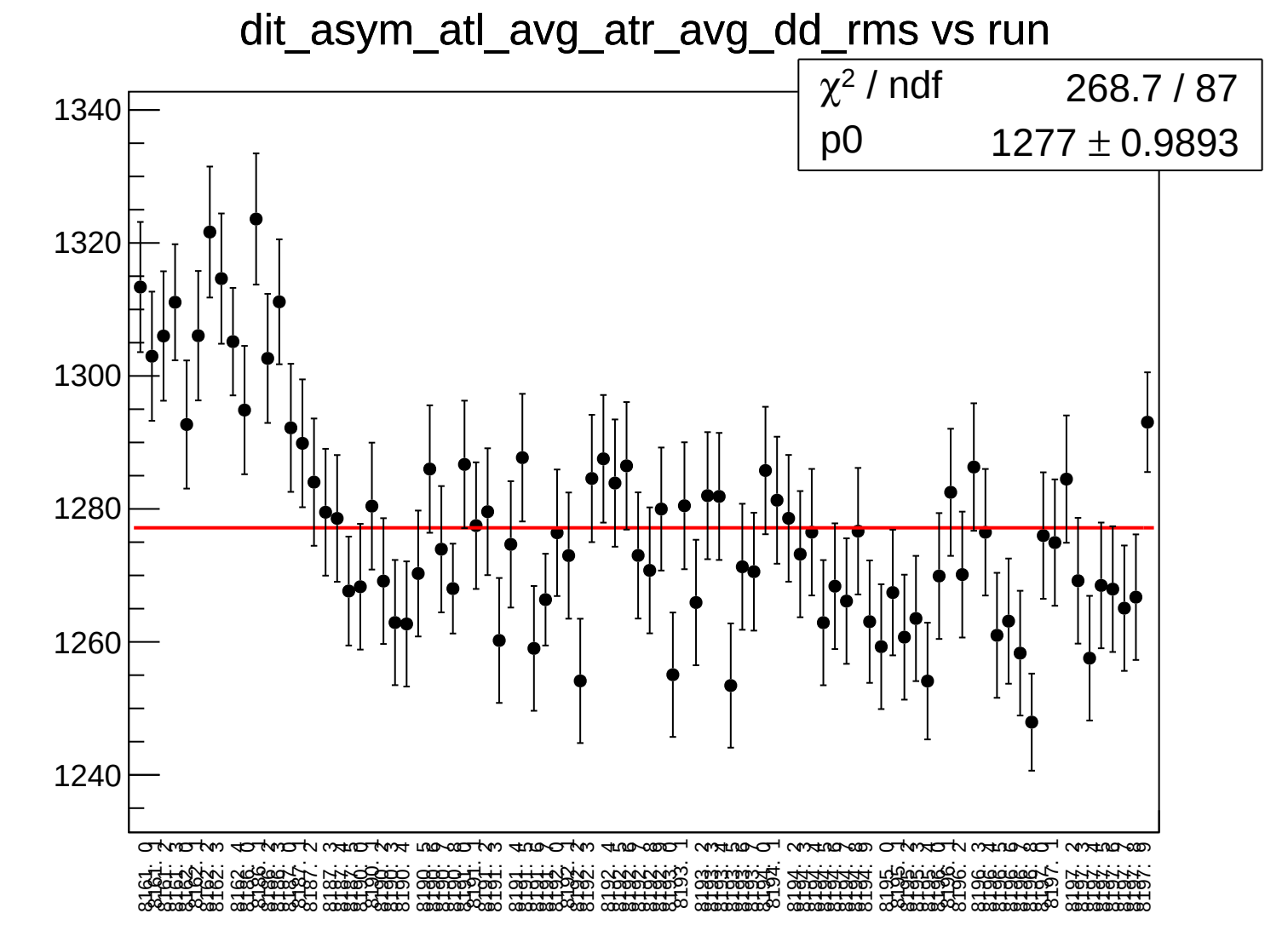

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.45 / 87
p0 −1609 ± 1694
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −544.4
Std Dev 0
2
1
0
−1
−2

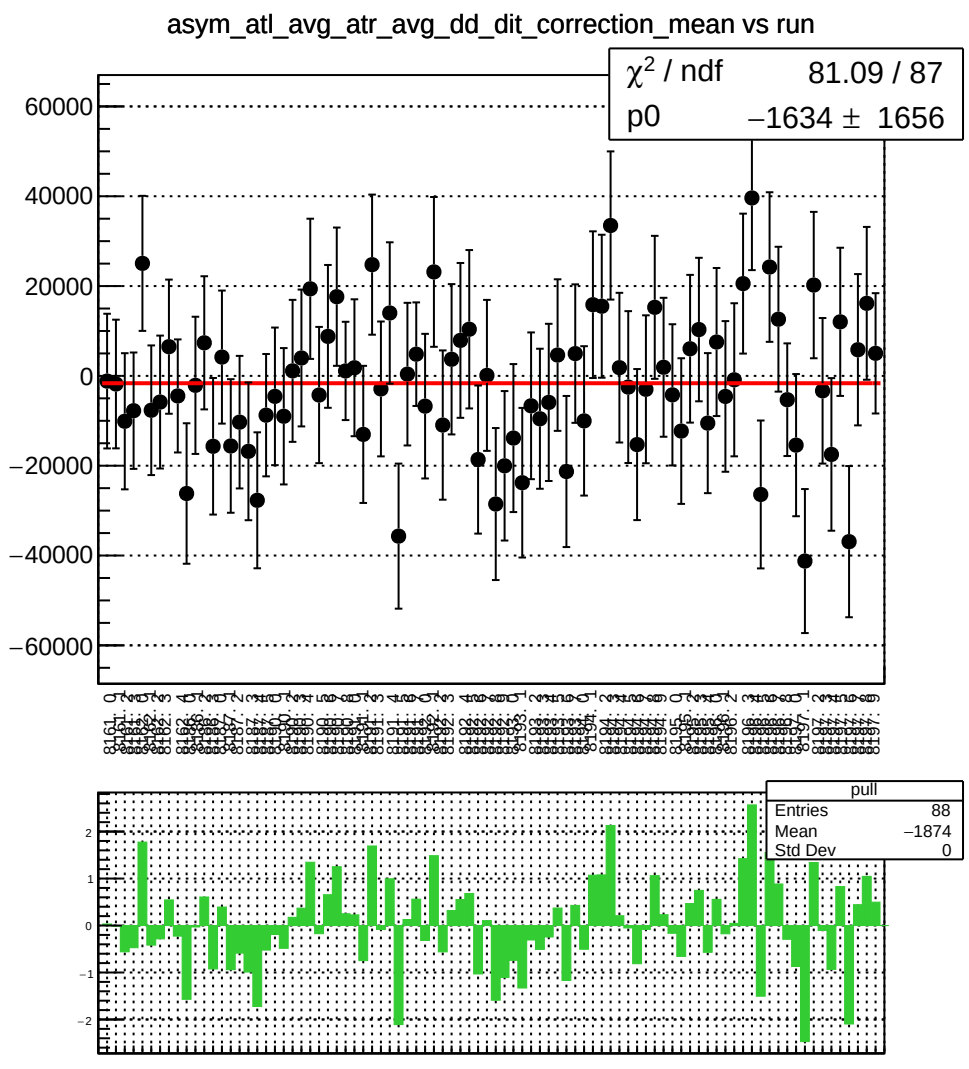

pull1D
Entries 88
Mean −0.004185
Std Dev 0.9621
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

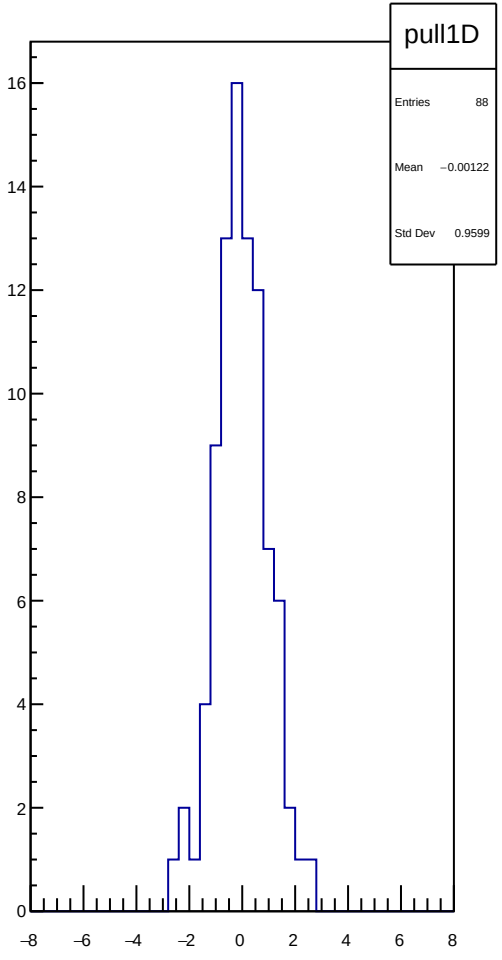

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5769 / 87
p0 1544 ± 1.198
1700
1600
1500
1400
1300

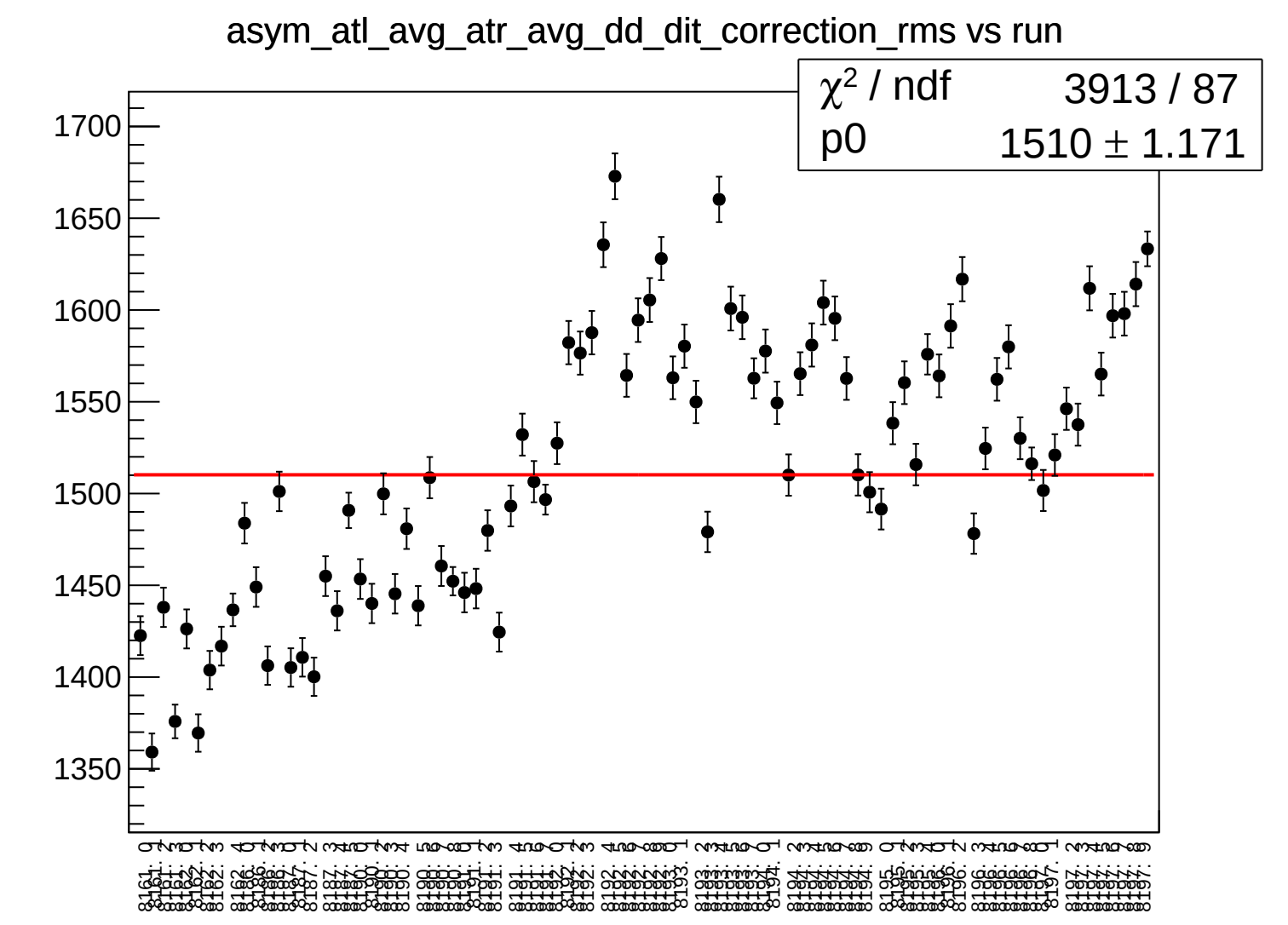

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 102.9 / 87
p0 949.8 ± 1399
pull
Entries 88
Mean −103.1
Std Dev 0

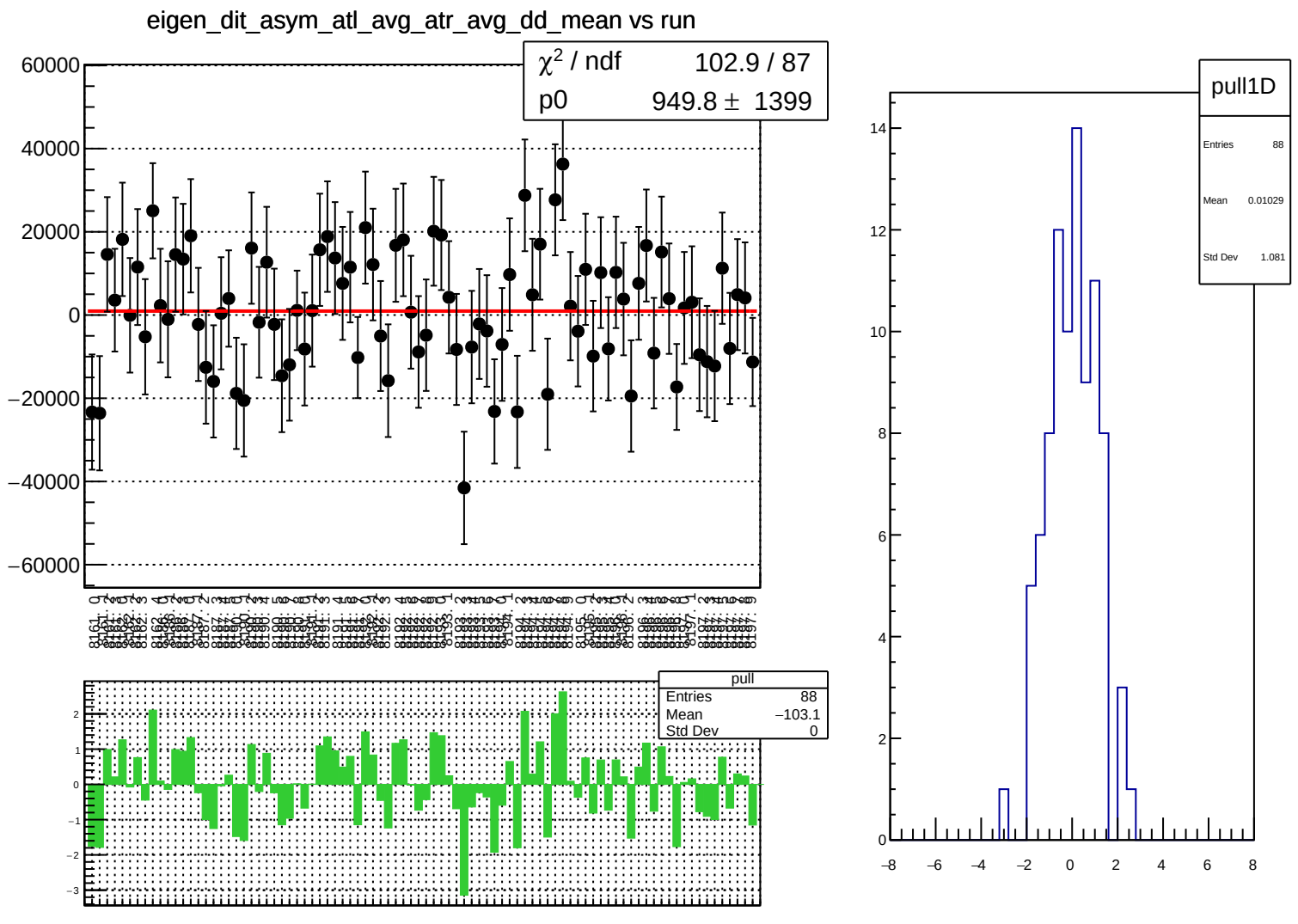

pull1D
Entries 88
Mean 0.01029
Std Dev 1.081

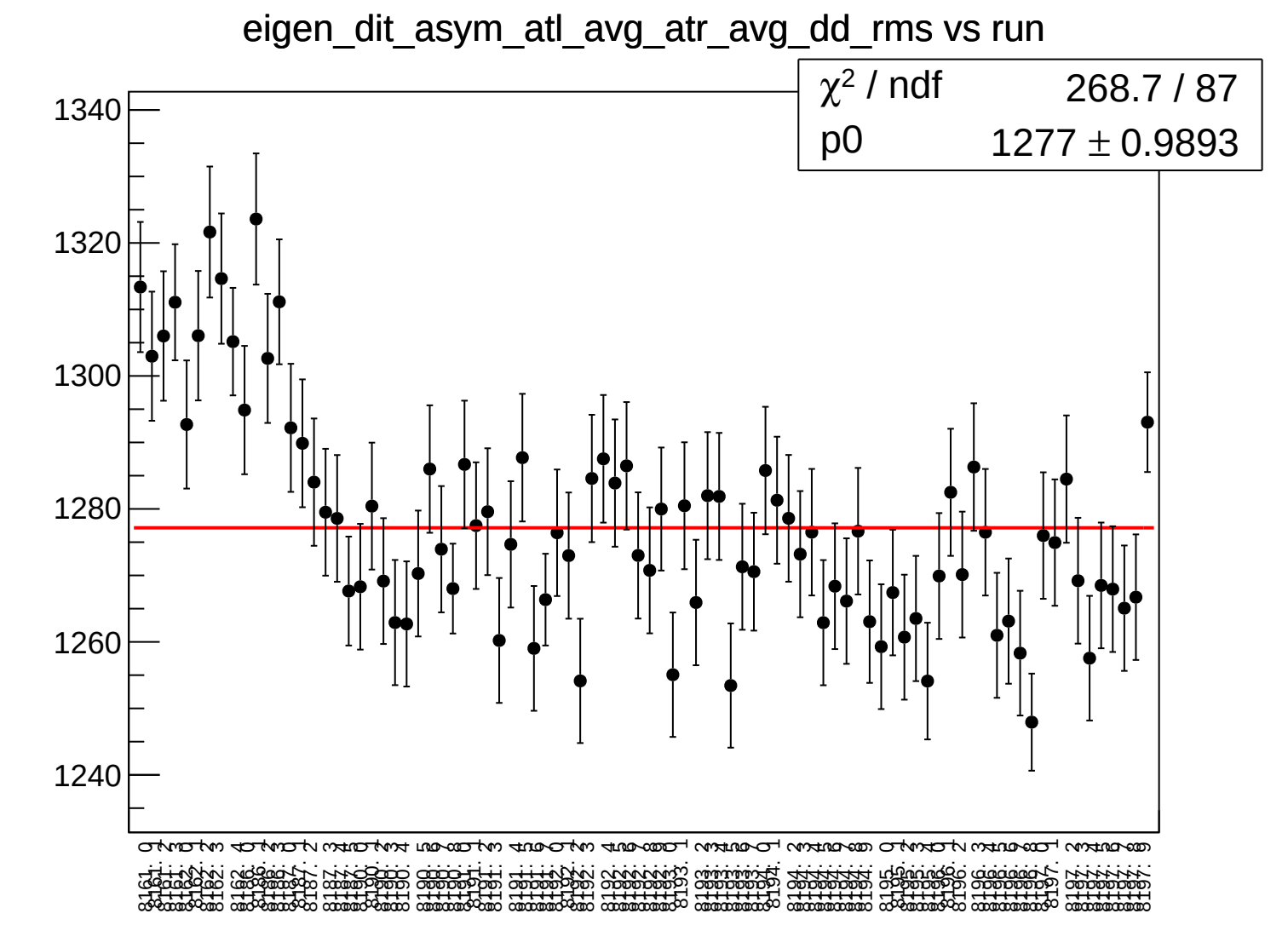

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 268.7 / 87
p0 1277 ± 0.9893
1340
1320
1300
1280
1260
1240

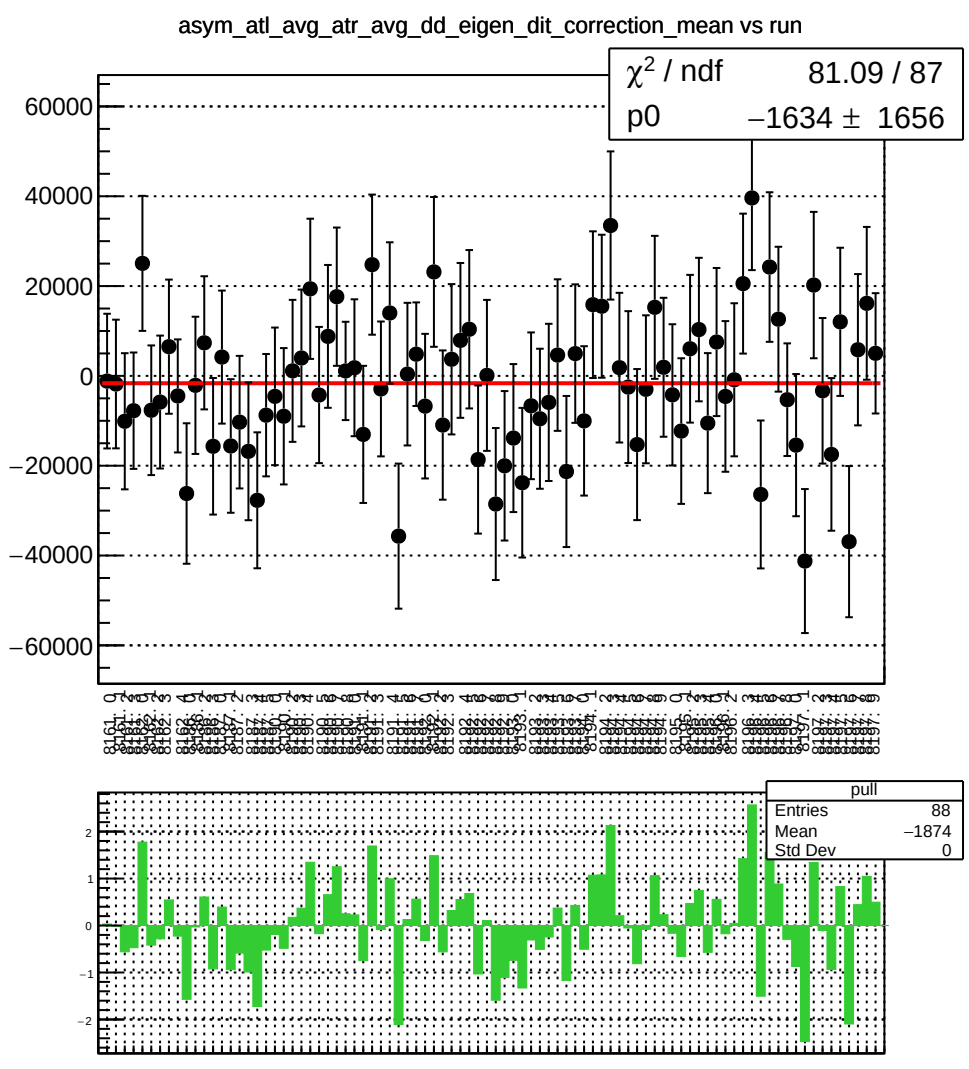

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 81.09 / 87
p0 −1634 ± 1656
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1874
Std Dev 0
2
1
0
−1
−2

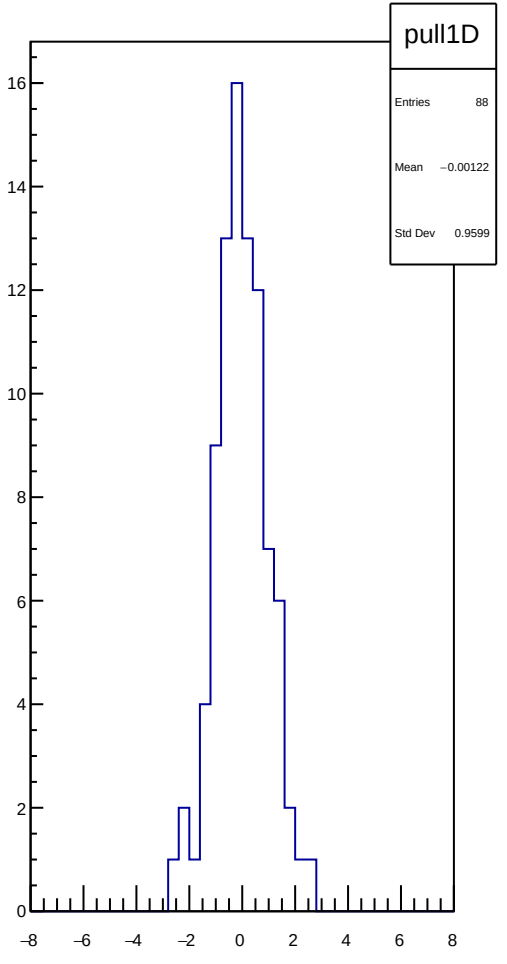

pull1D
Entries 88
Mean −0.00122
Std Dev 0.9599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

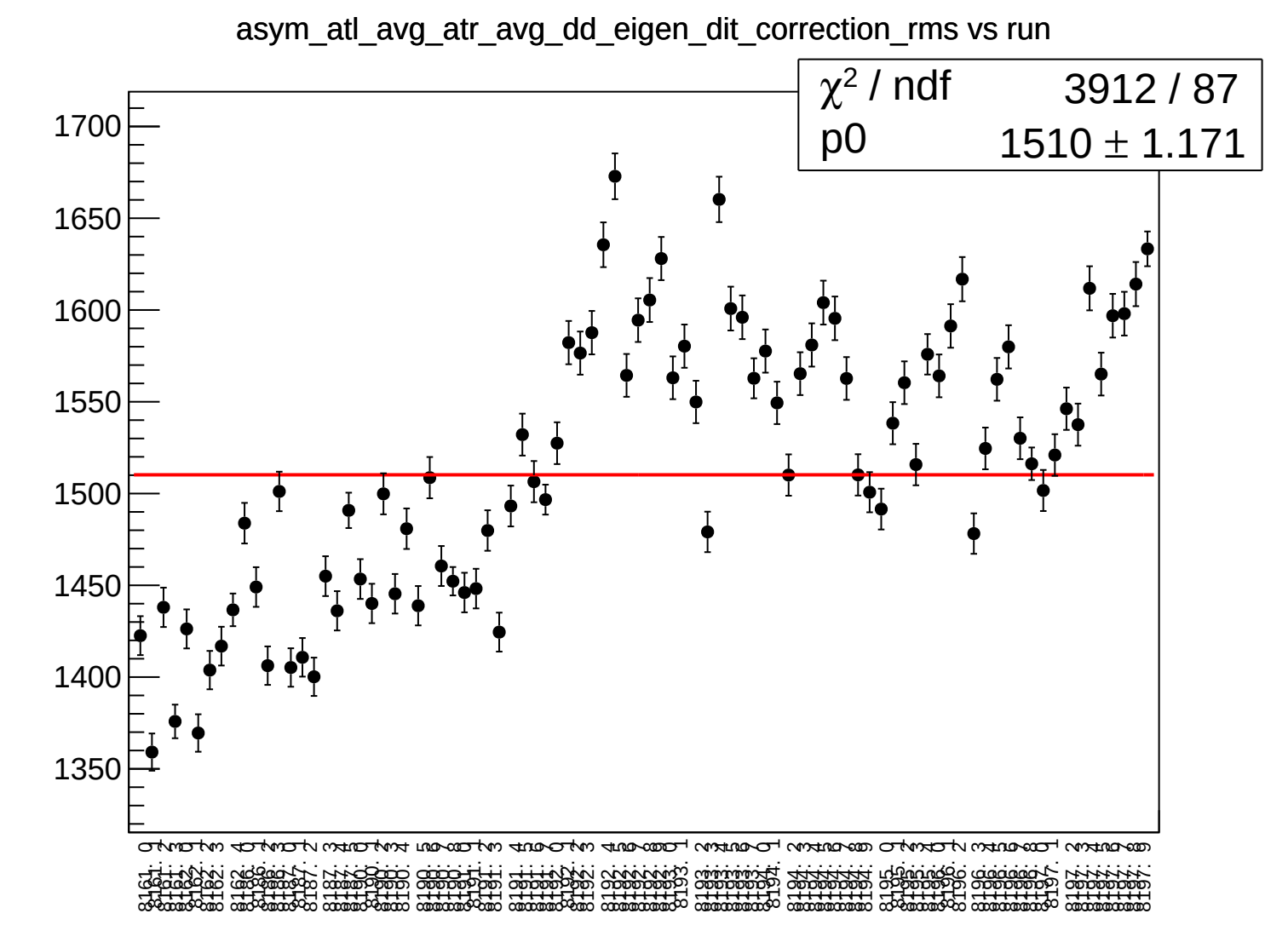

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3913 / 87
p0 1510 ± 1.171
1700
1650
1600
1550
1500
1450
1400
1350

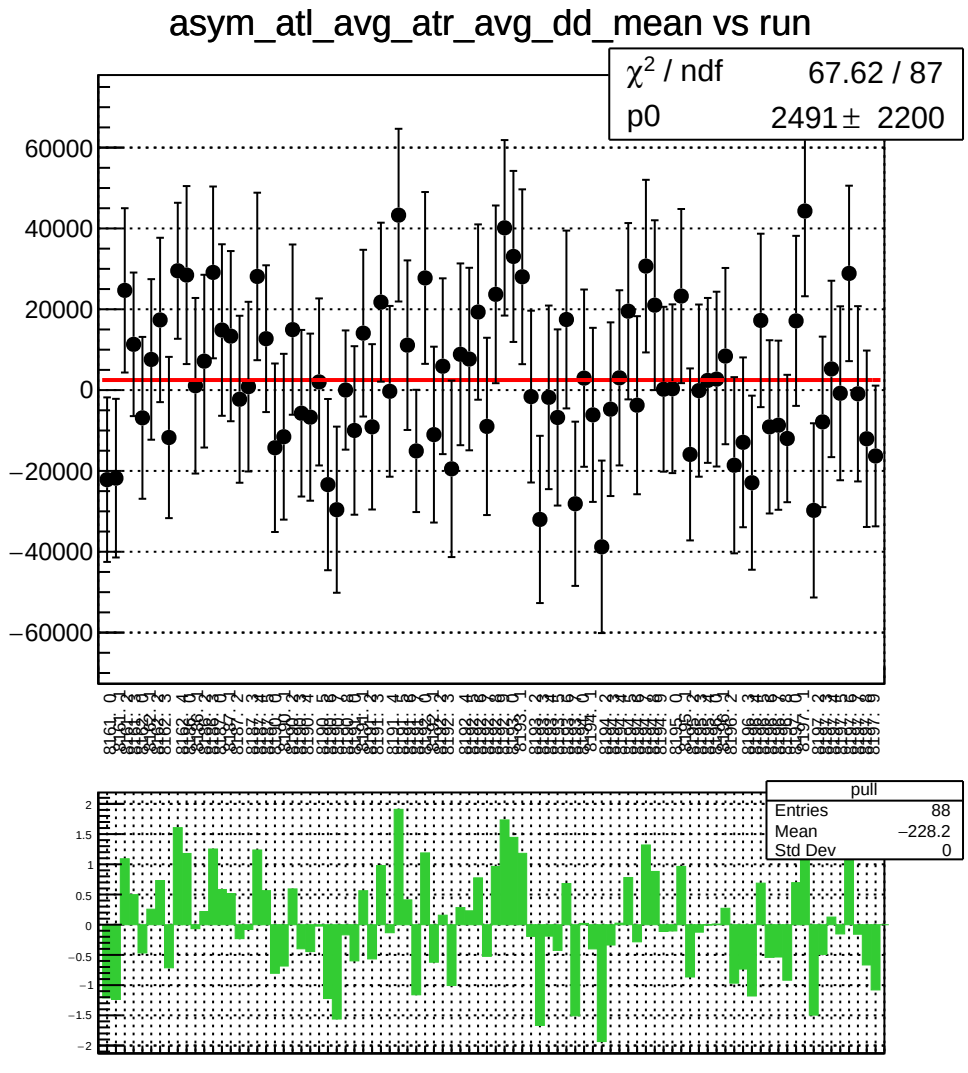

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 102.9 / 87
p0 949.8 ± 1399
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −103.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01029
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

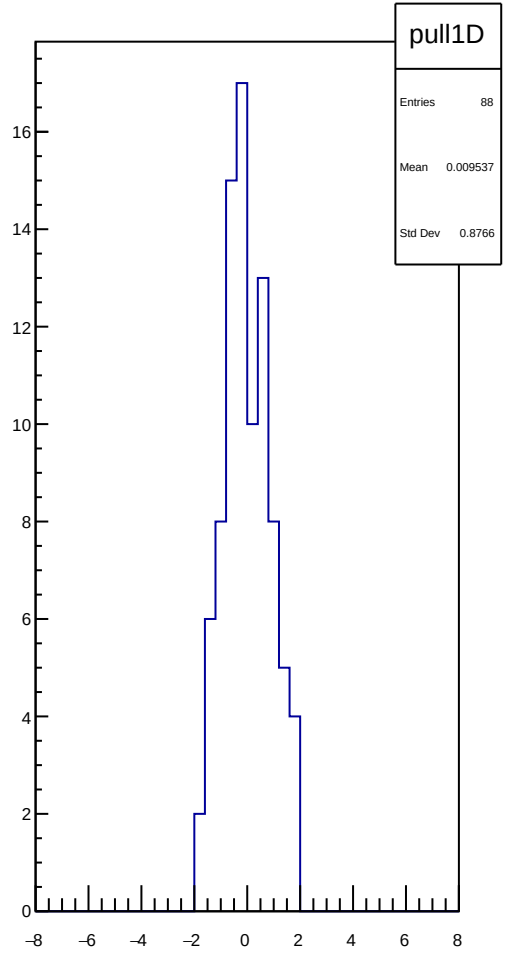

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 268.7 / 87
p0 1277 ± 0.9893
1340
1320
1300
1280
1260
1240

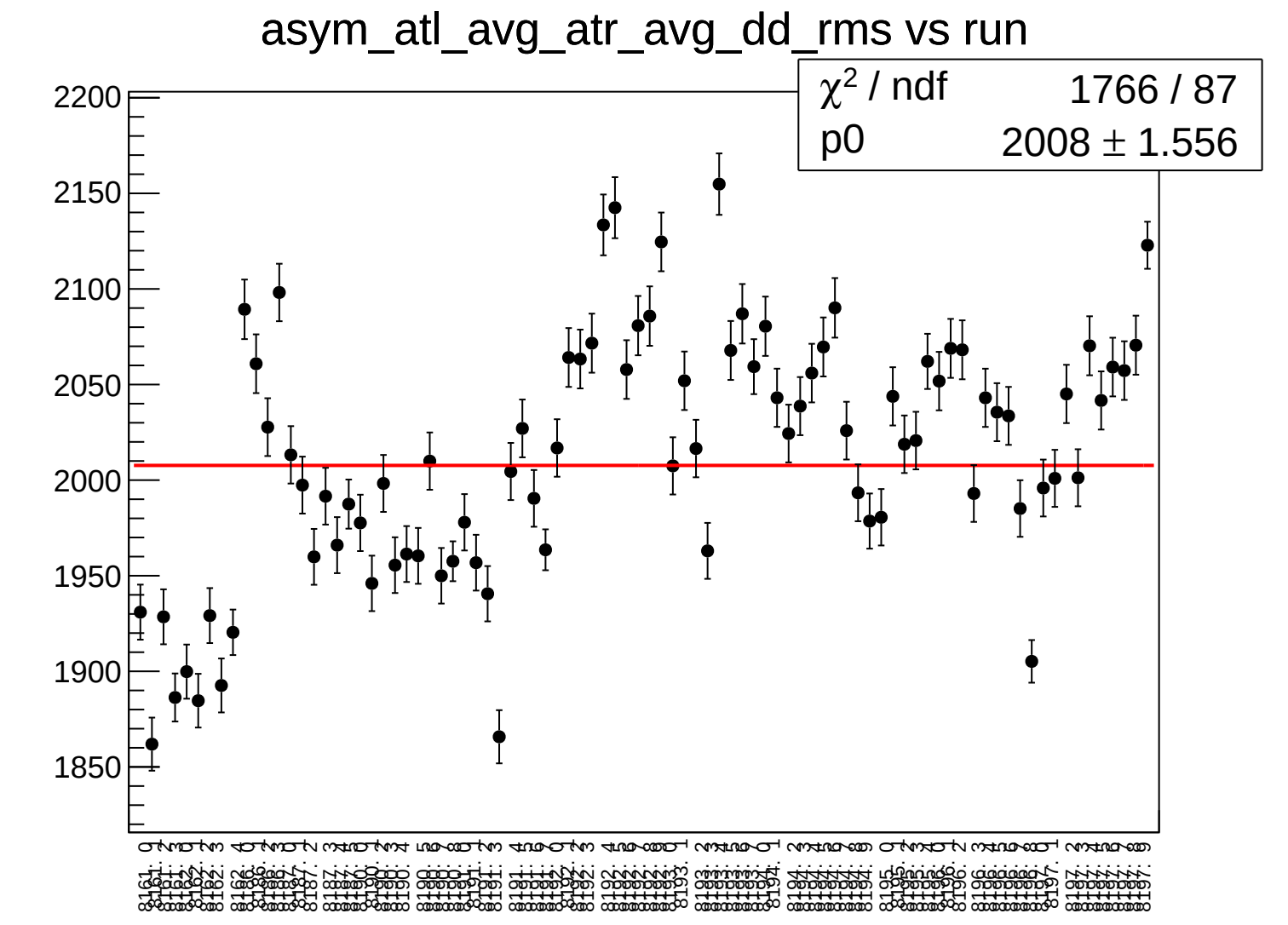

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.09 / 87
p0 −1634 ± 1656
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1874
Std Dev 0
2
1
0
−1
−2

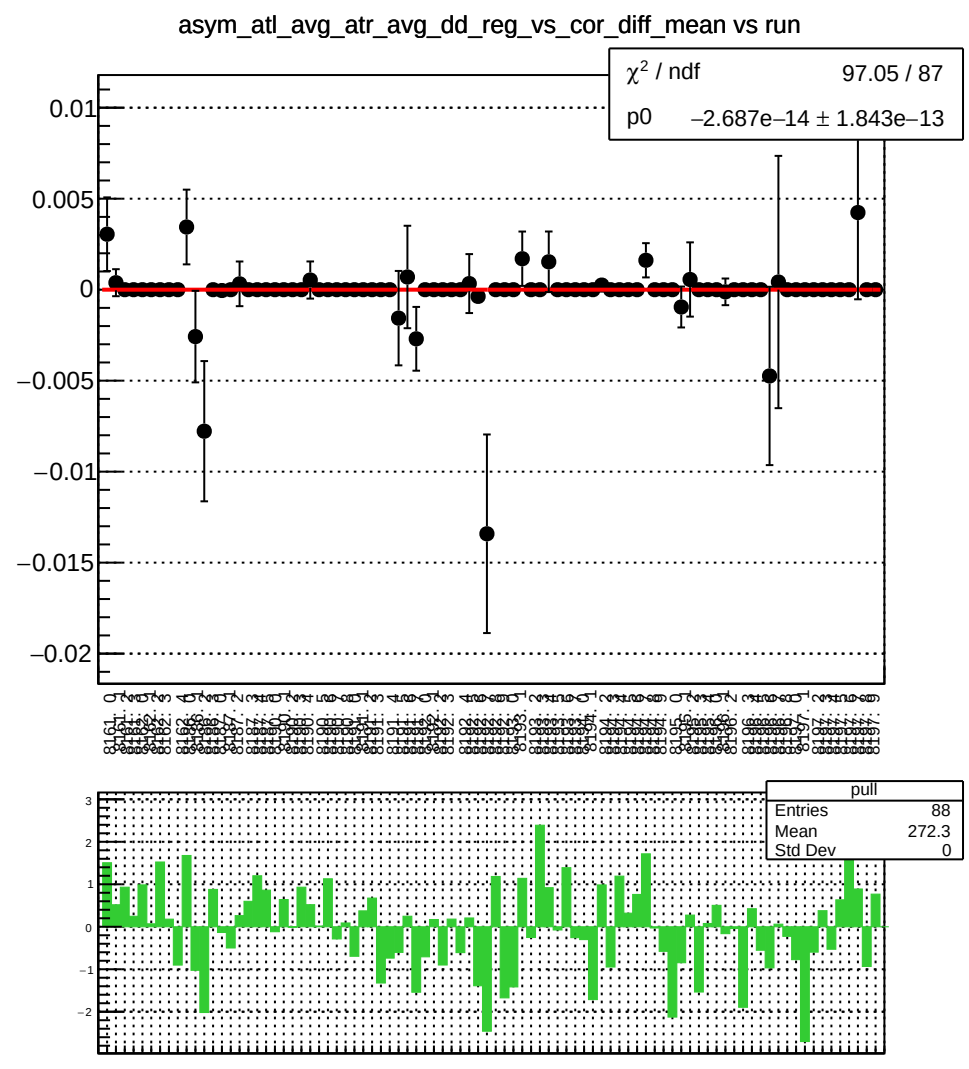

pull1D
Entries 88
Mean −0.00122
Std Dev 0.9599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

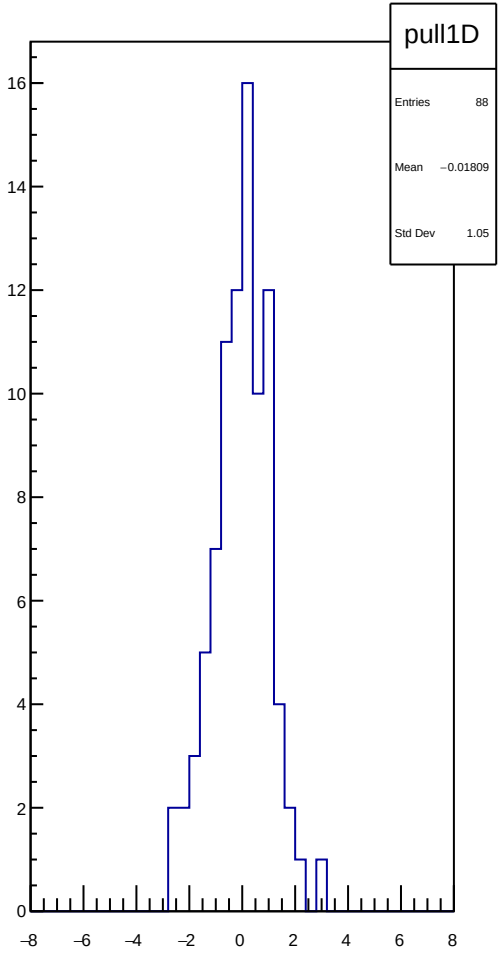

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3912 / 87
p0 1510 ± 1.171
1700
1650
1600
1550
1500
1450
1400
1350

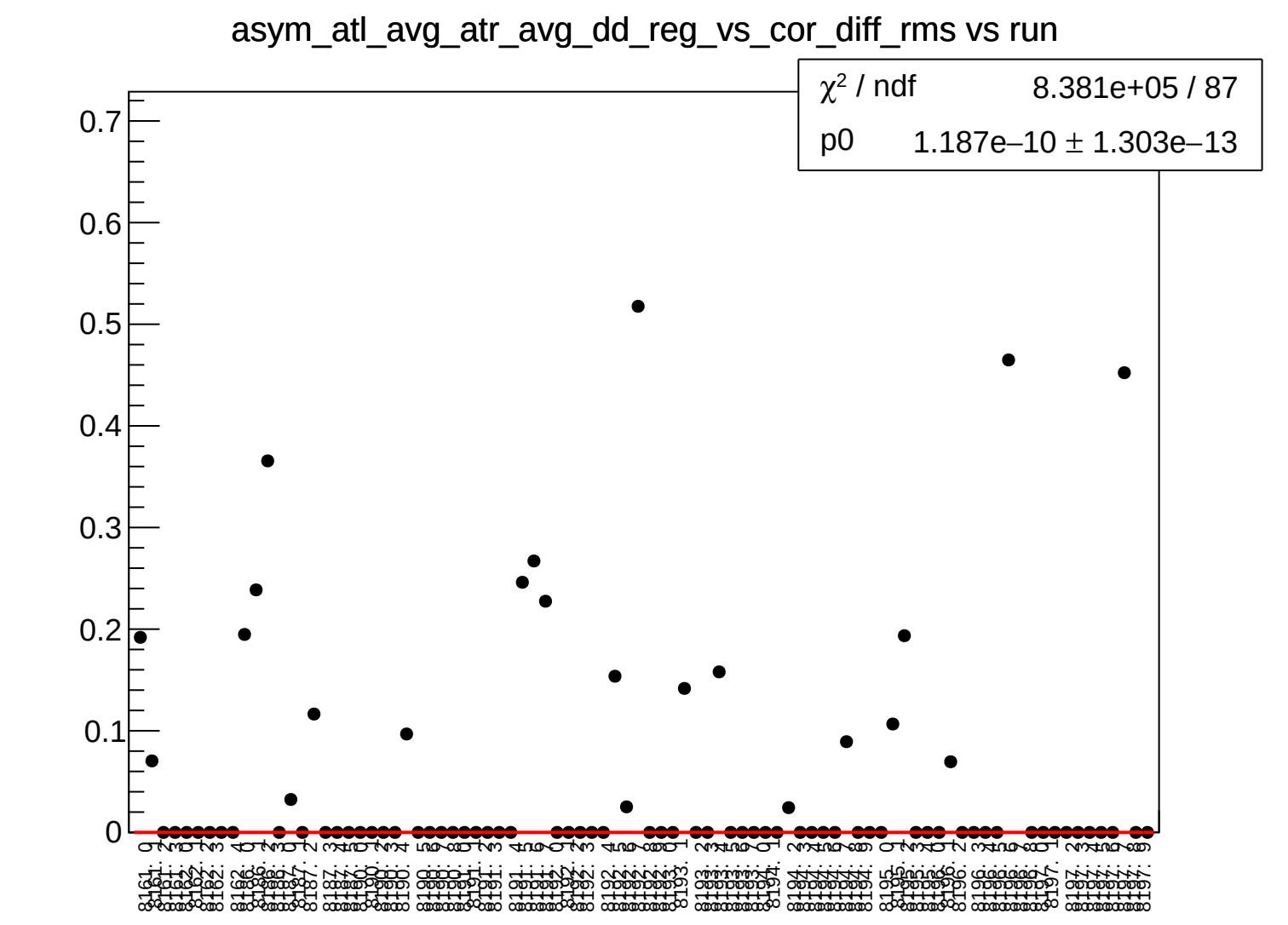

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 67.62 / 87
p0 2491 ± 2200
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −228.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

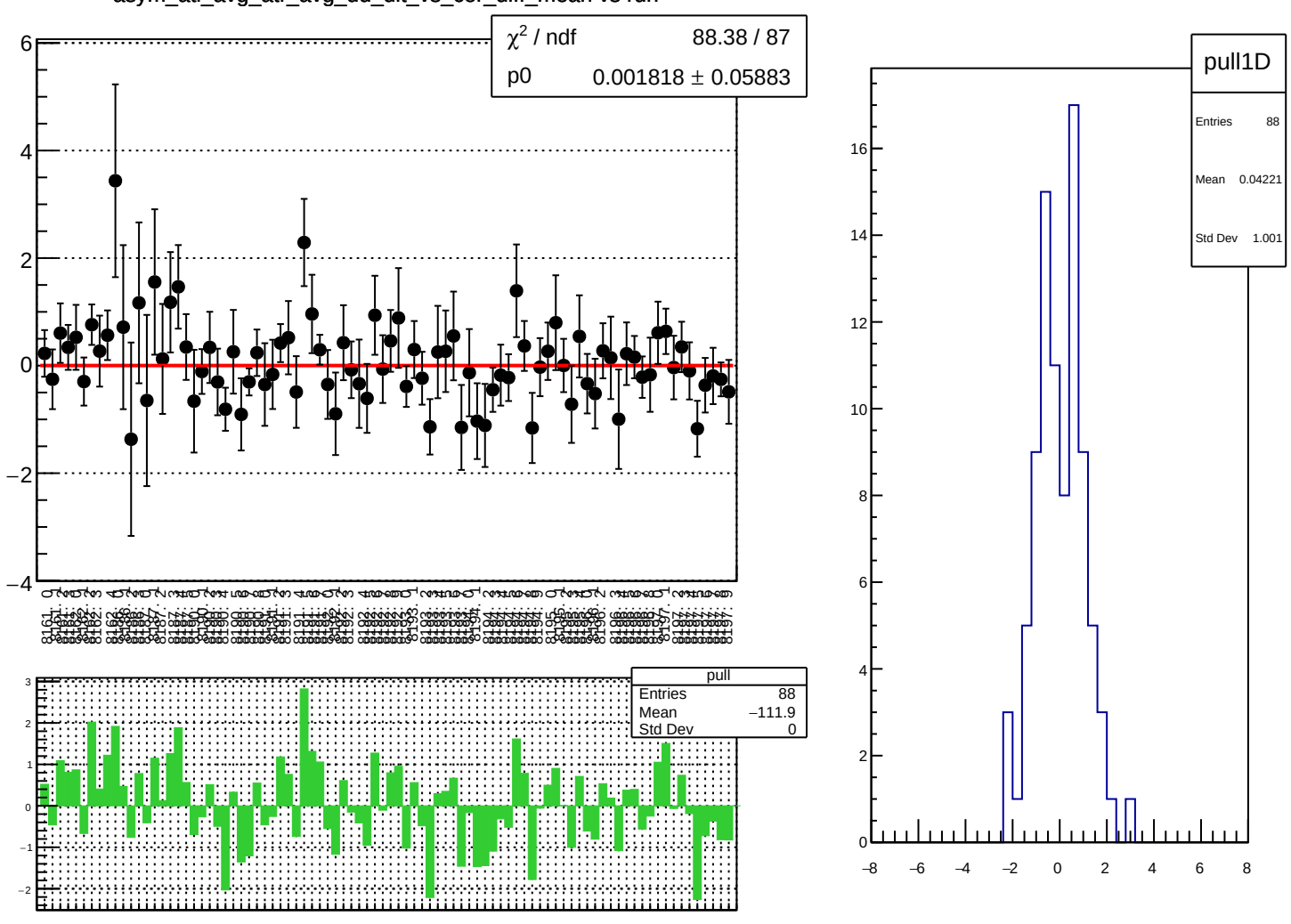

pull1D
Entries 88
Mean 0.009537
Std Dev 0.8766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

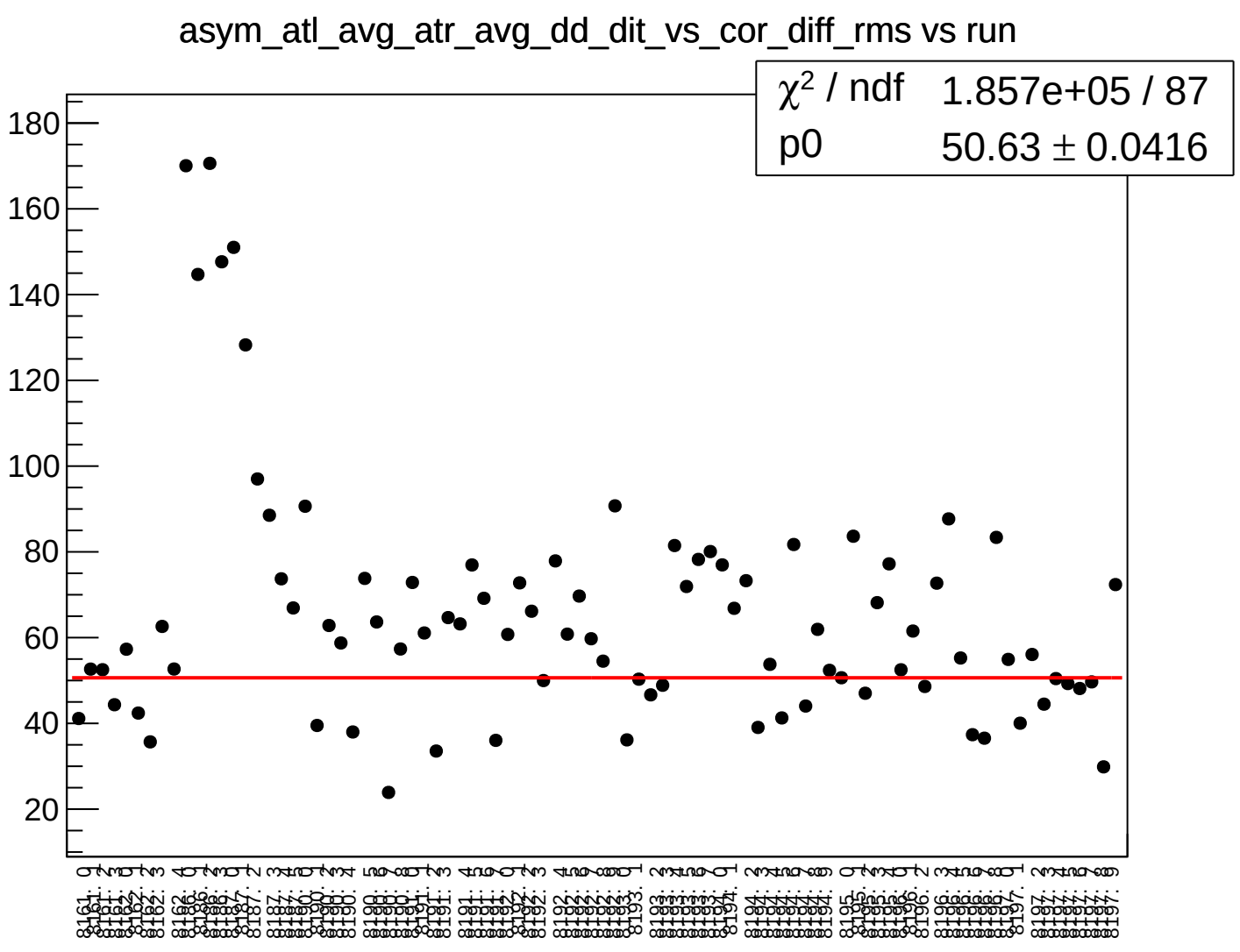

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1766 / 87
p0 2008 ± 1.556
2200
2150
2100
2050
2000
1950
1900
1850

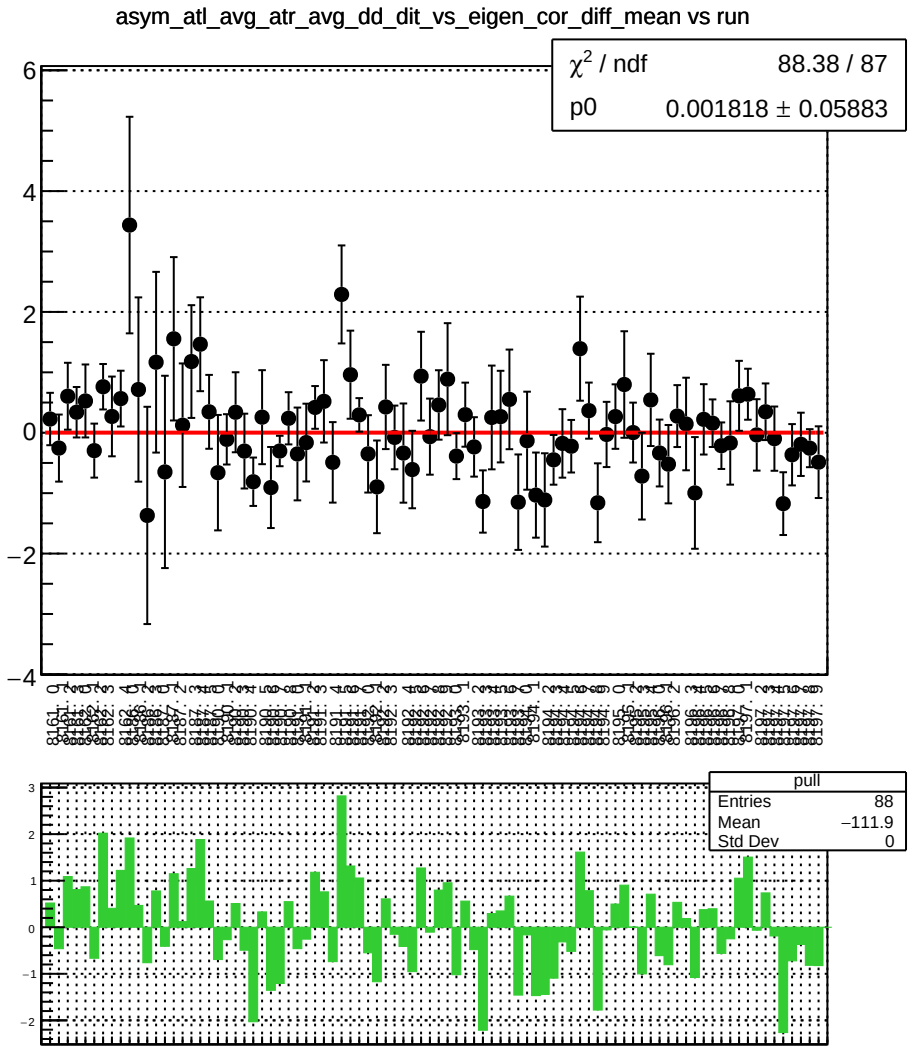

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.05 / 87
p0 −2.687e−14 ± 1.843e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean 272.3
Std Dev 0
3
2
1
0
−1
−2

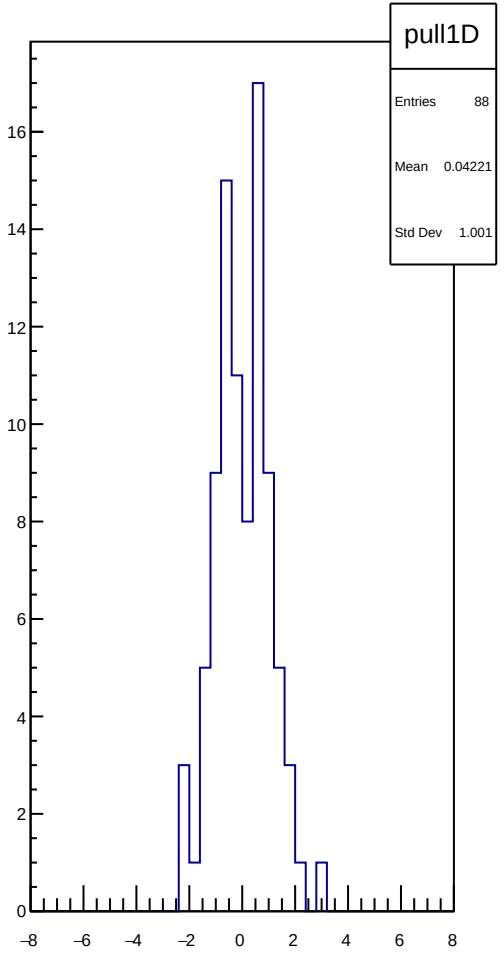

pull1D
Entries 88
Mean −0.01809
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

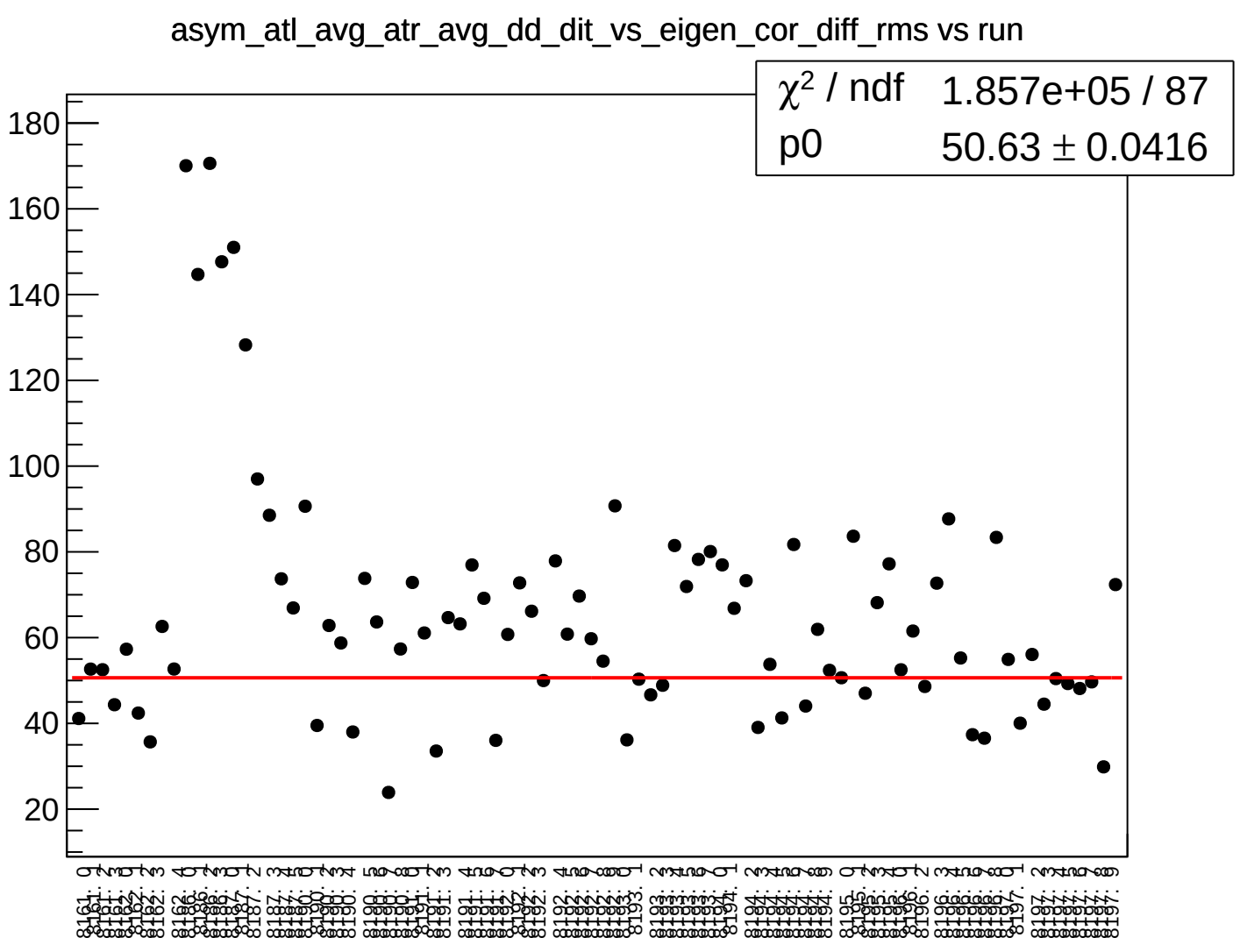

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.381e+05 / 87
p0 1.187e−10 ± 1.303e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

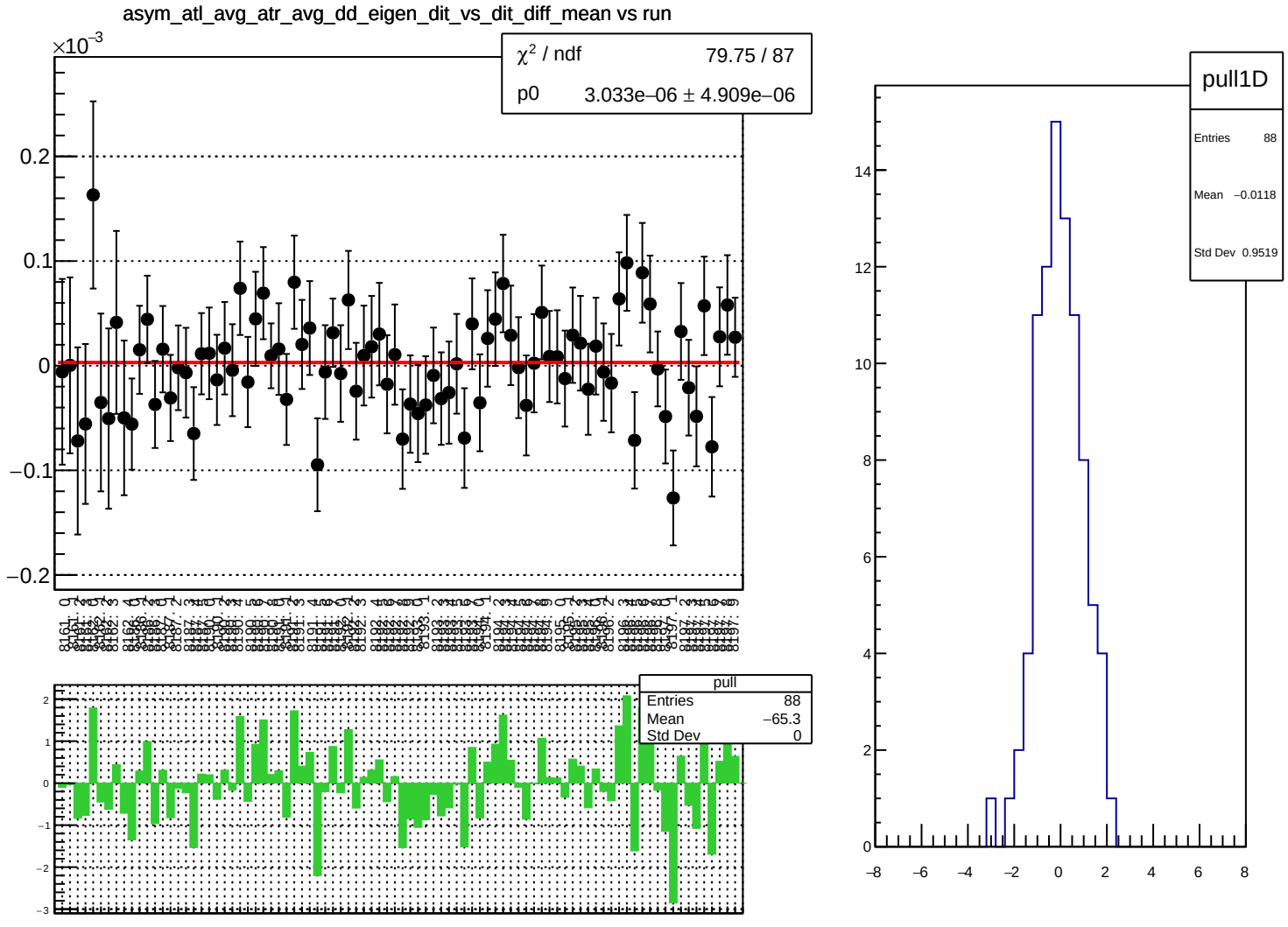

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 87
p0 0.001818 ± 0.05883
pull
Entries 88
Mean −111.9
Std Dev 0
pull1D
Entries 88
Mean 0.04221
Std Dev 1.001

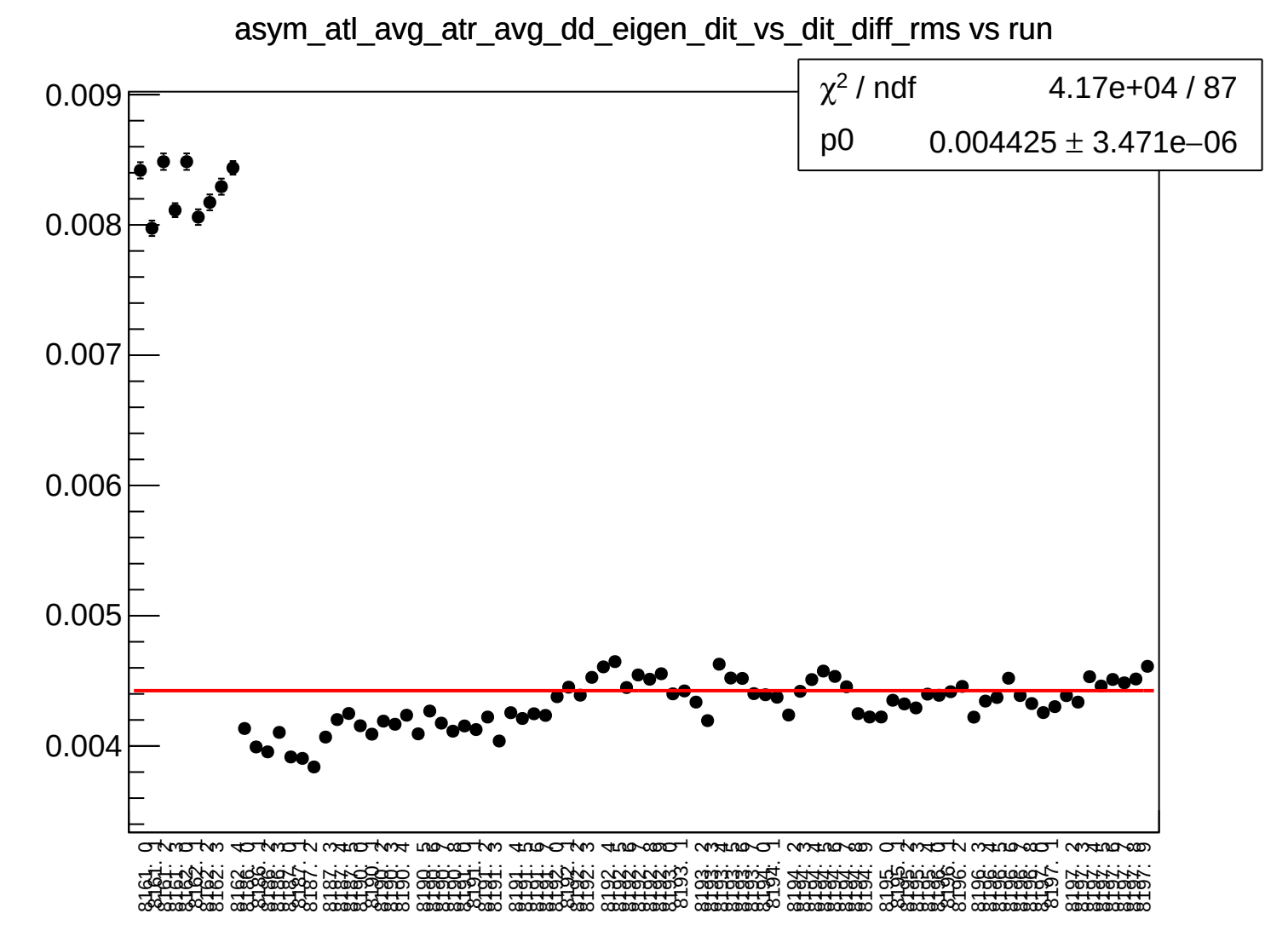

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.857e+05 / 87
p0 50.63 ± 0.0416
180
160
140
120
100
80
60
40
20

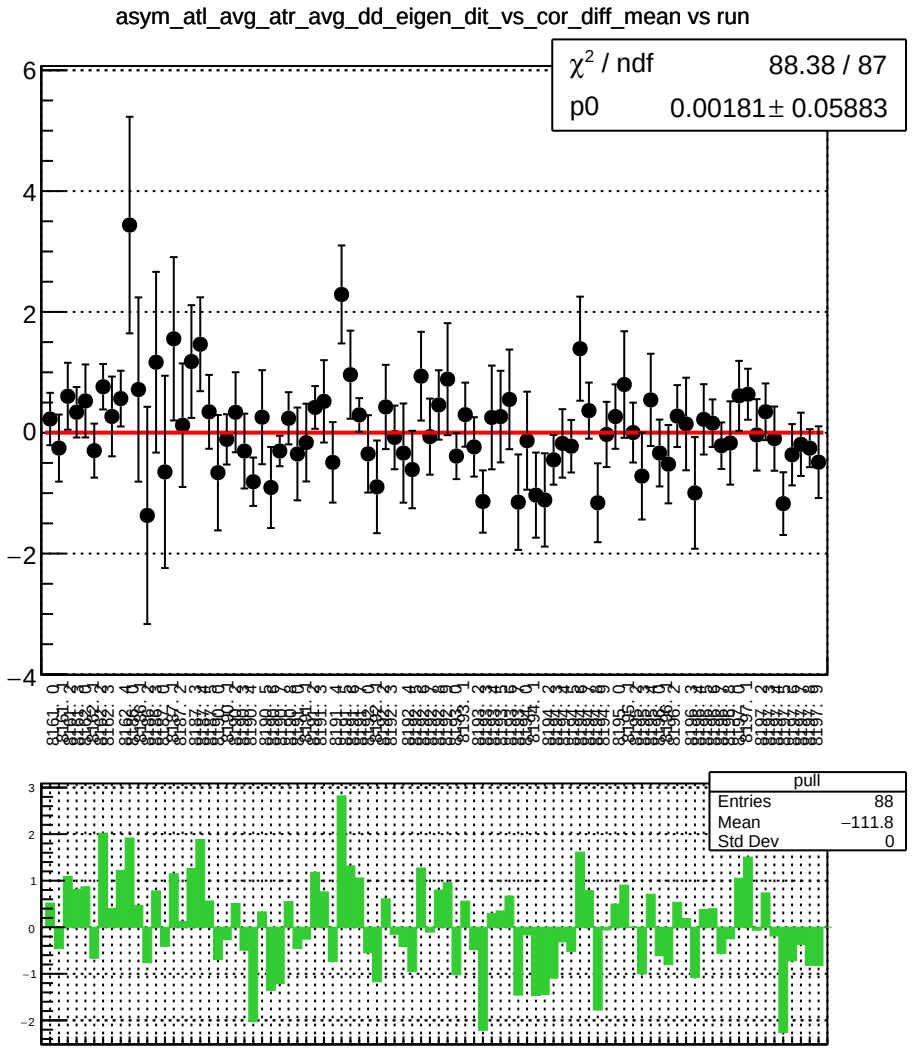

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 87
p0 0.001818 ± 0.05883
pull
Entries 88
Mean −111.9
Std Dev 0

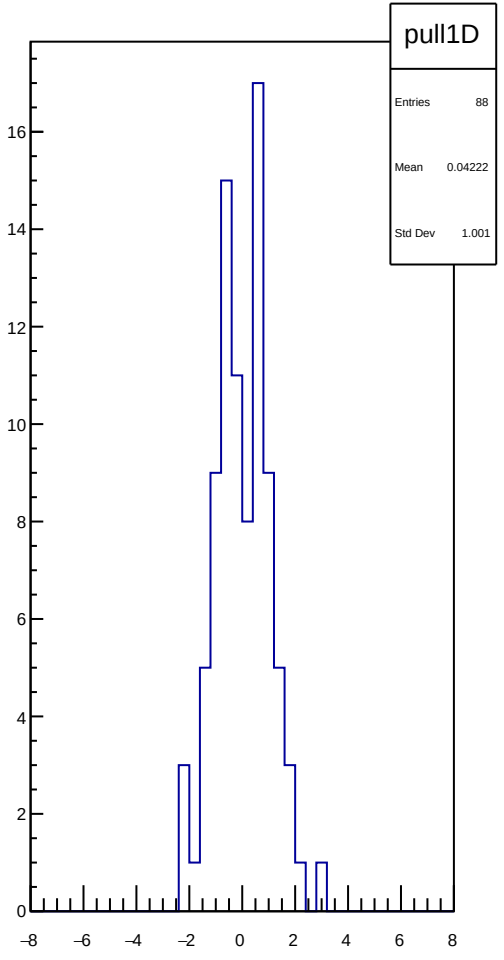

pull1D
Entries 88
Mean 0.04221
Std Dev 1.001

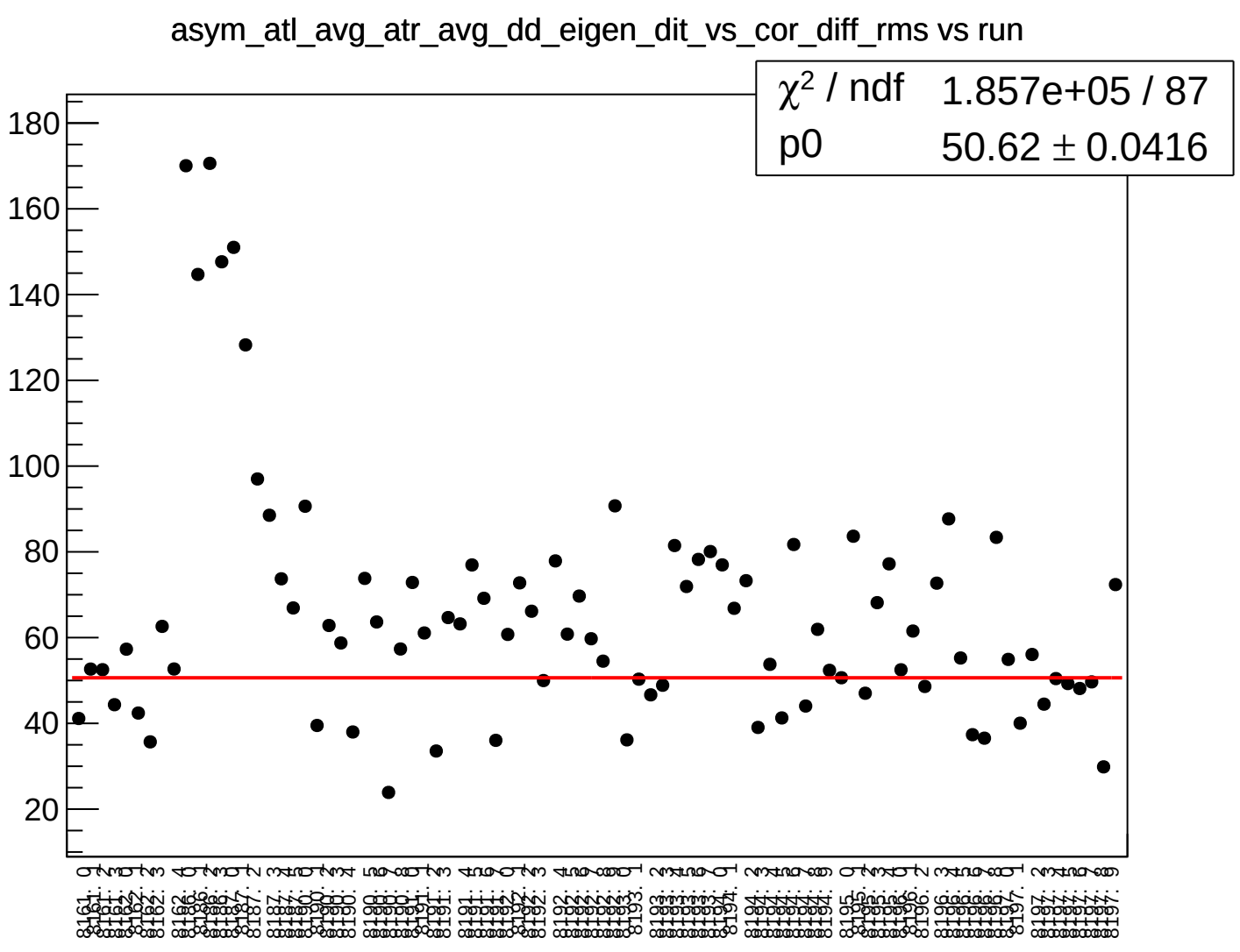

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.857e+05 / 87
p0 50.63 ± 0.0416
180
160
140
120
100
80
60
40
20

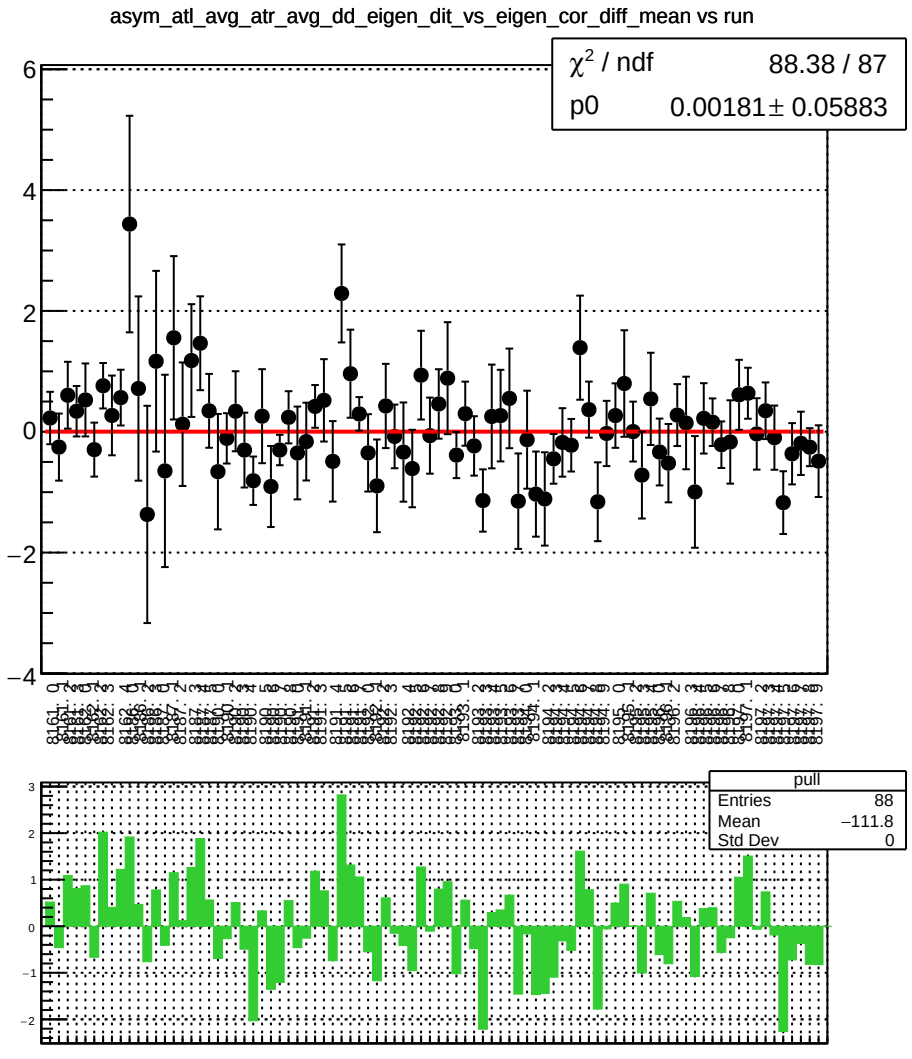

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.75 / 87
p0 3.033e−06 ± 4.909e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −65.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0118
Std Dev 0.9519
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

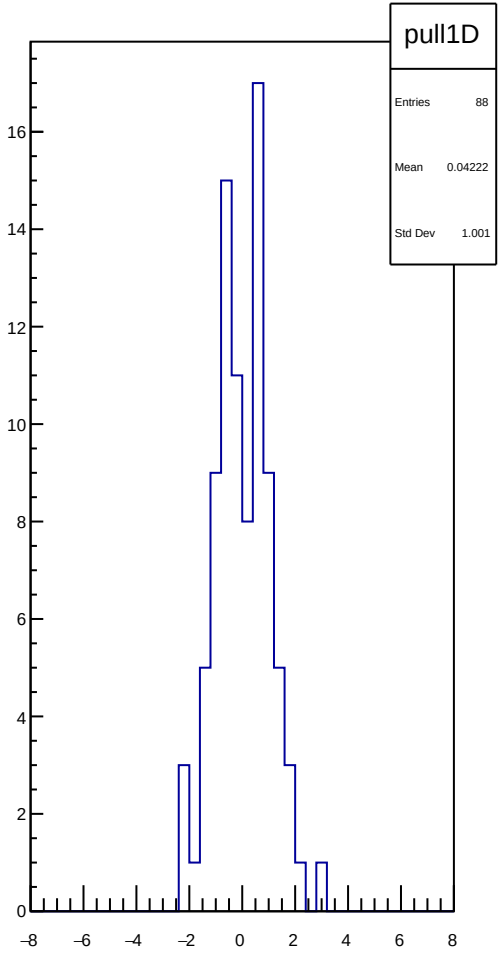

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.17e+04 / 87
p0 0.004425 ± 3.471e−06
0.009
0.008
0.007
0.006
0.005
0.004

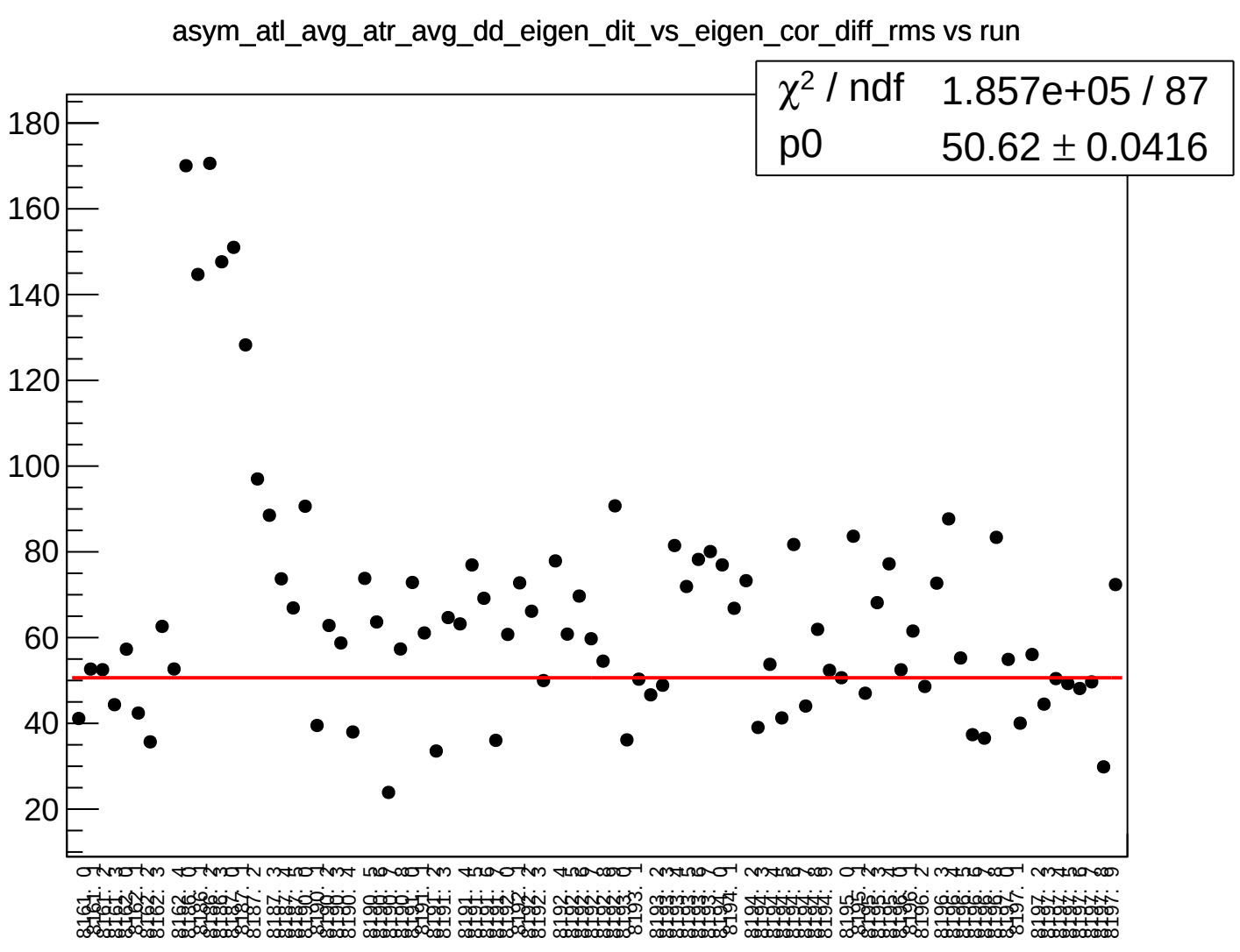

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 87
p0 0.00181 ± 0.05883
pull
Entries 88
Mean −111.8
Std Dev 0

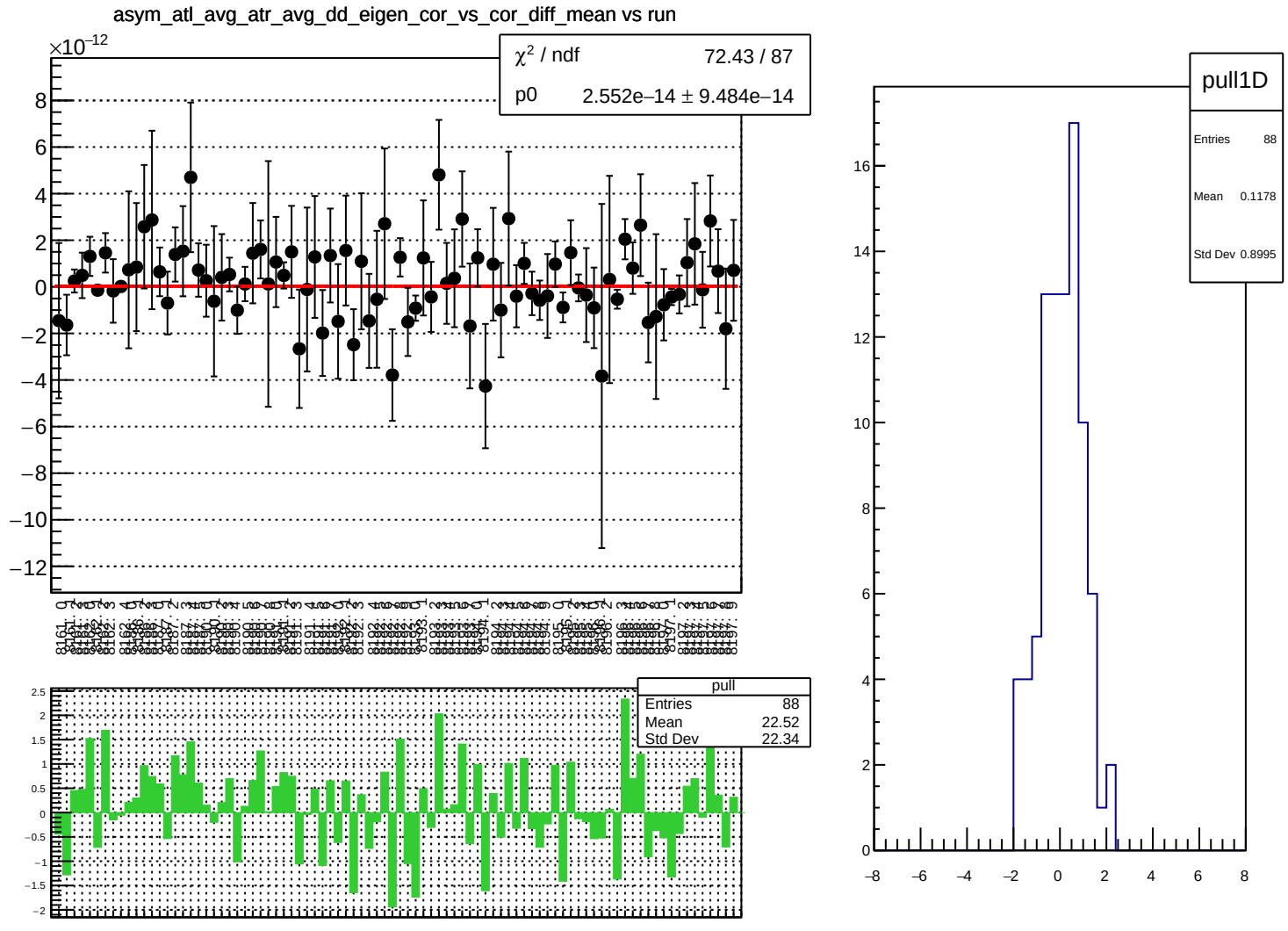

pull1D
Entries 88
Mean 0.04222
Std Dev 1.001

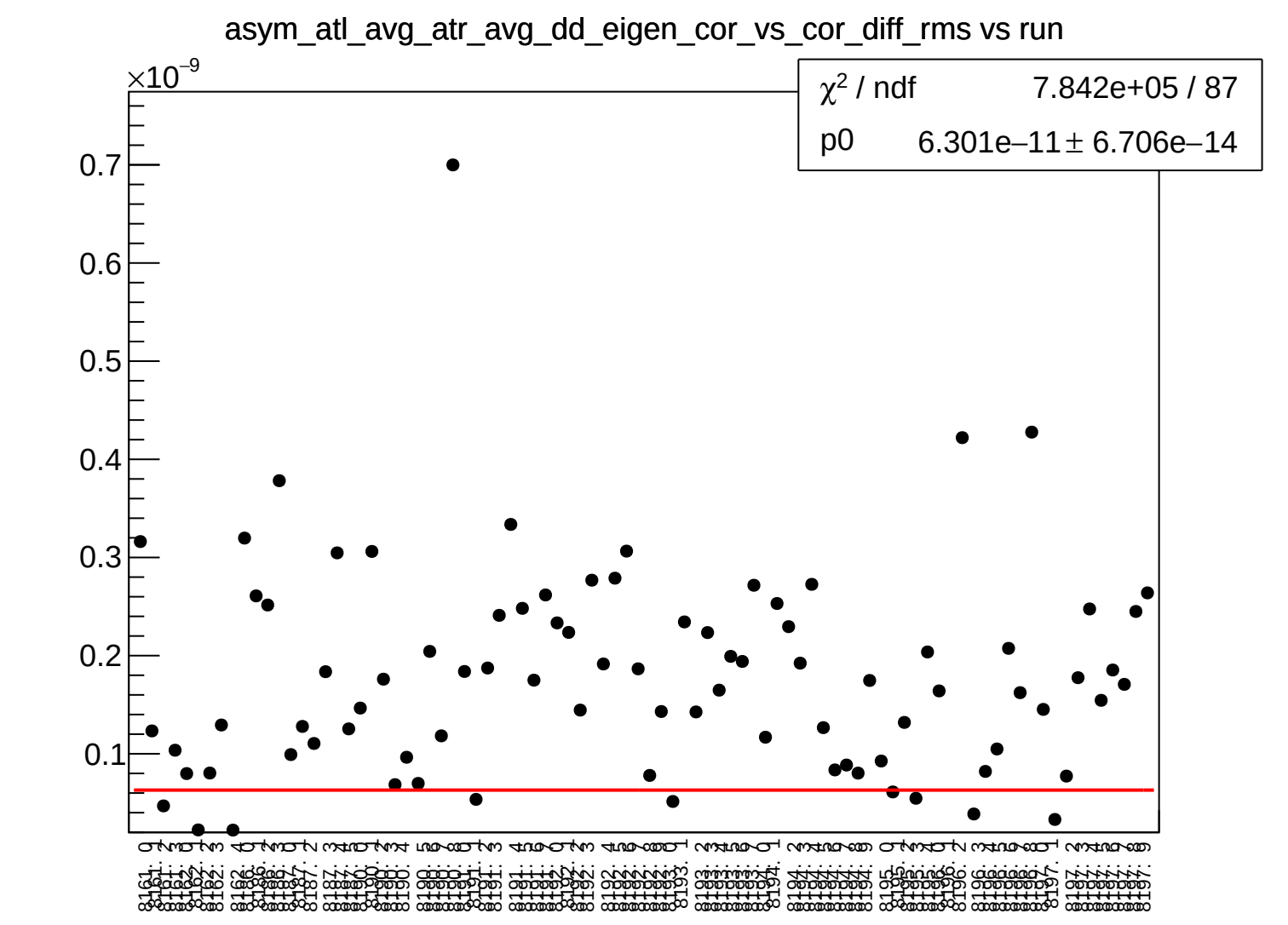

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.857e+05 / 87
p0 50.62 ± 0.0416
180
160
140
120
100
80
60
40
20

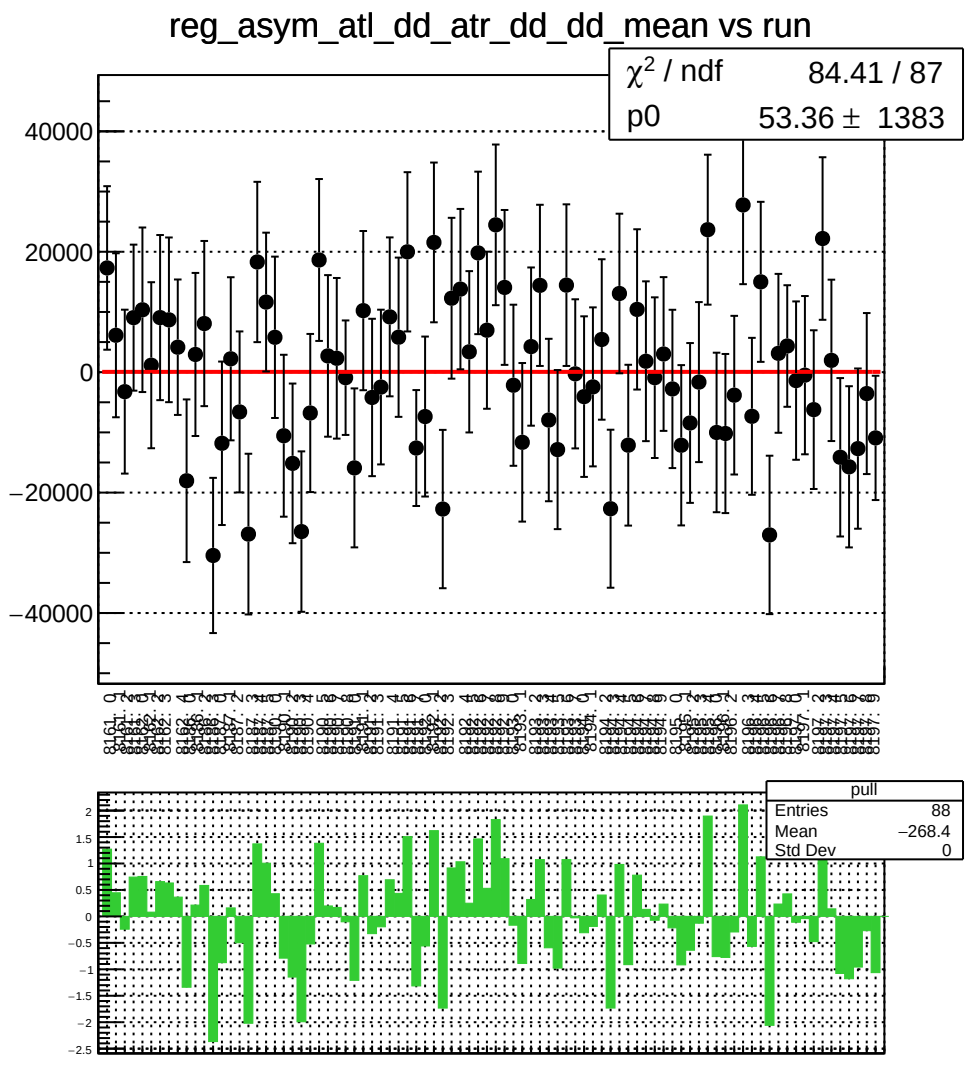

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 87
p0 0.00181 ± 0.05883
pull
Entries 88
Mean −111.8
Std Dev 0

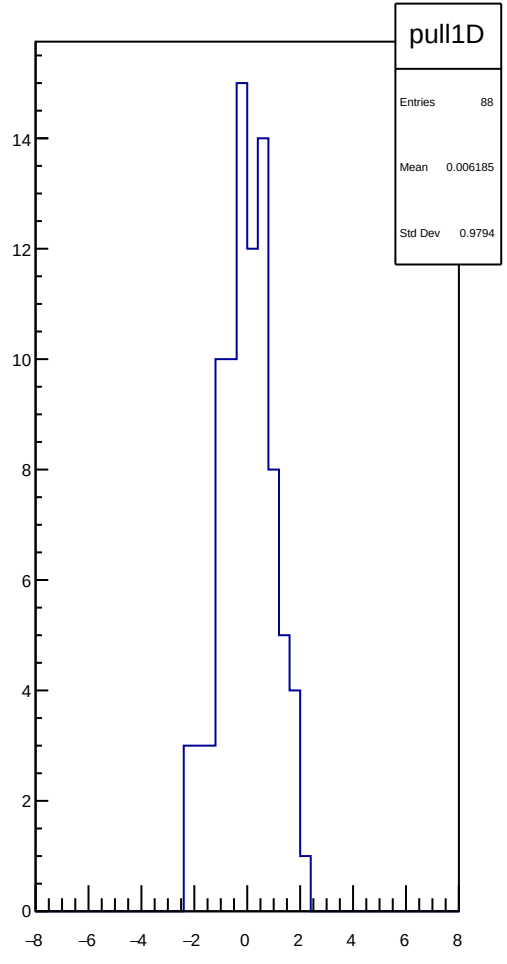

pull1D
Entries 88
Mean 0.04222
Std Dev 1.001

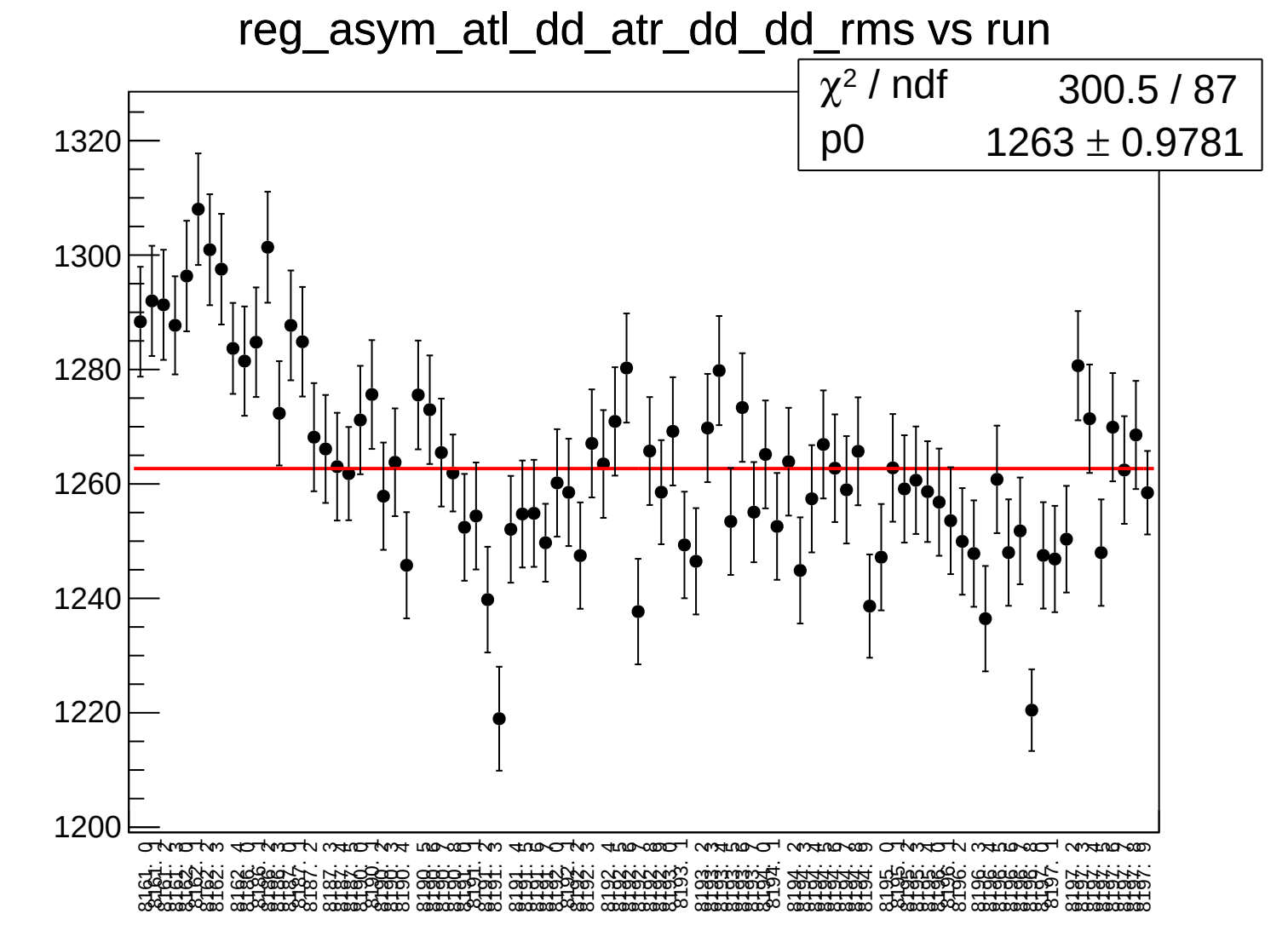

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.857e+05 / 87
p0 50.62 ± 0.0416
180
160
140
120
100
80
60
40
20

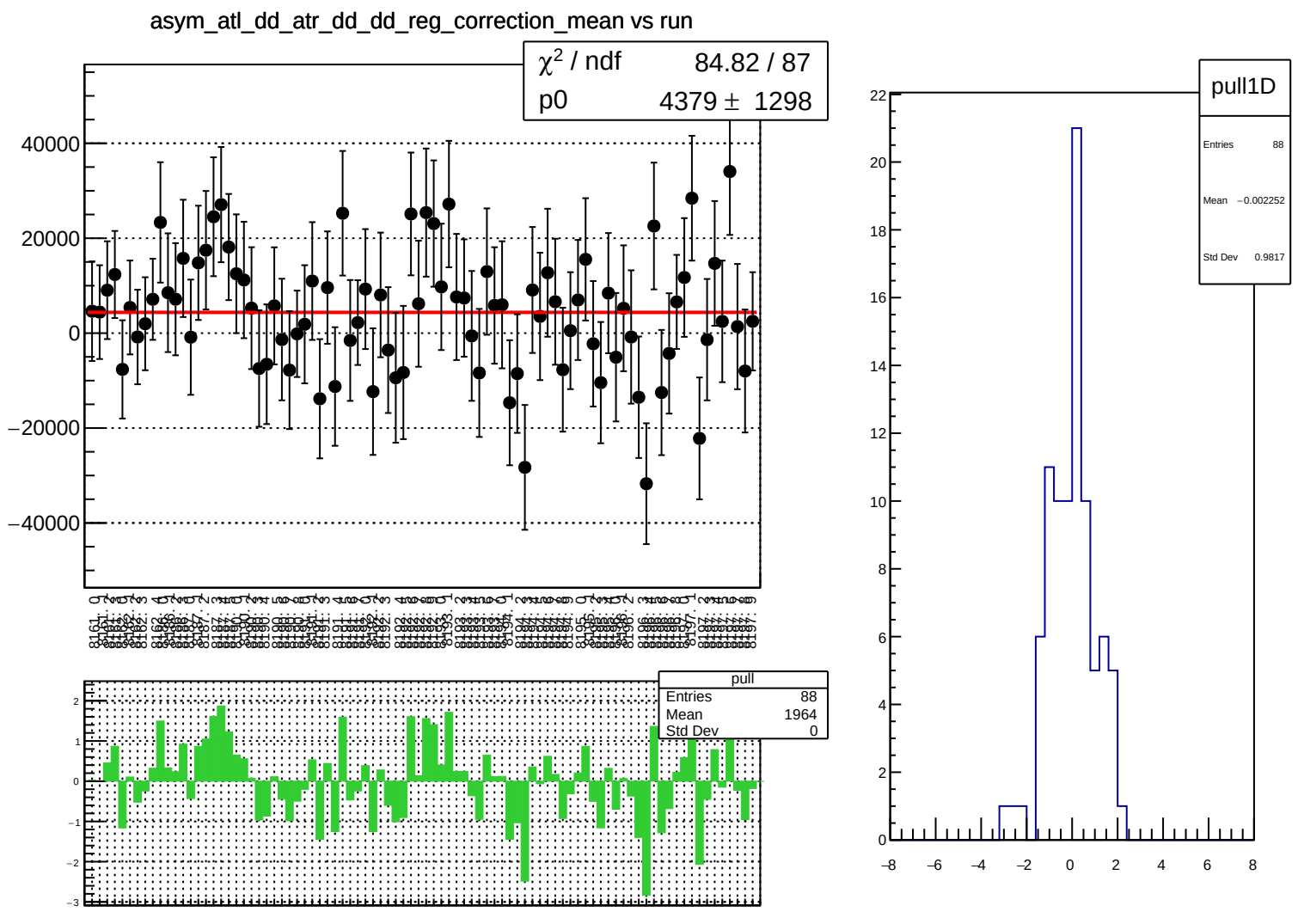

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 72.43 / 87
p0 2.552e−14 ± 9.484e−14
pull
Entries 88
Mean 22.52
Std Dev 22.34
pull1D
Entries 88
Mean 0.1178
Std Dev 0.8995

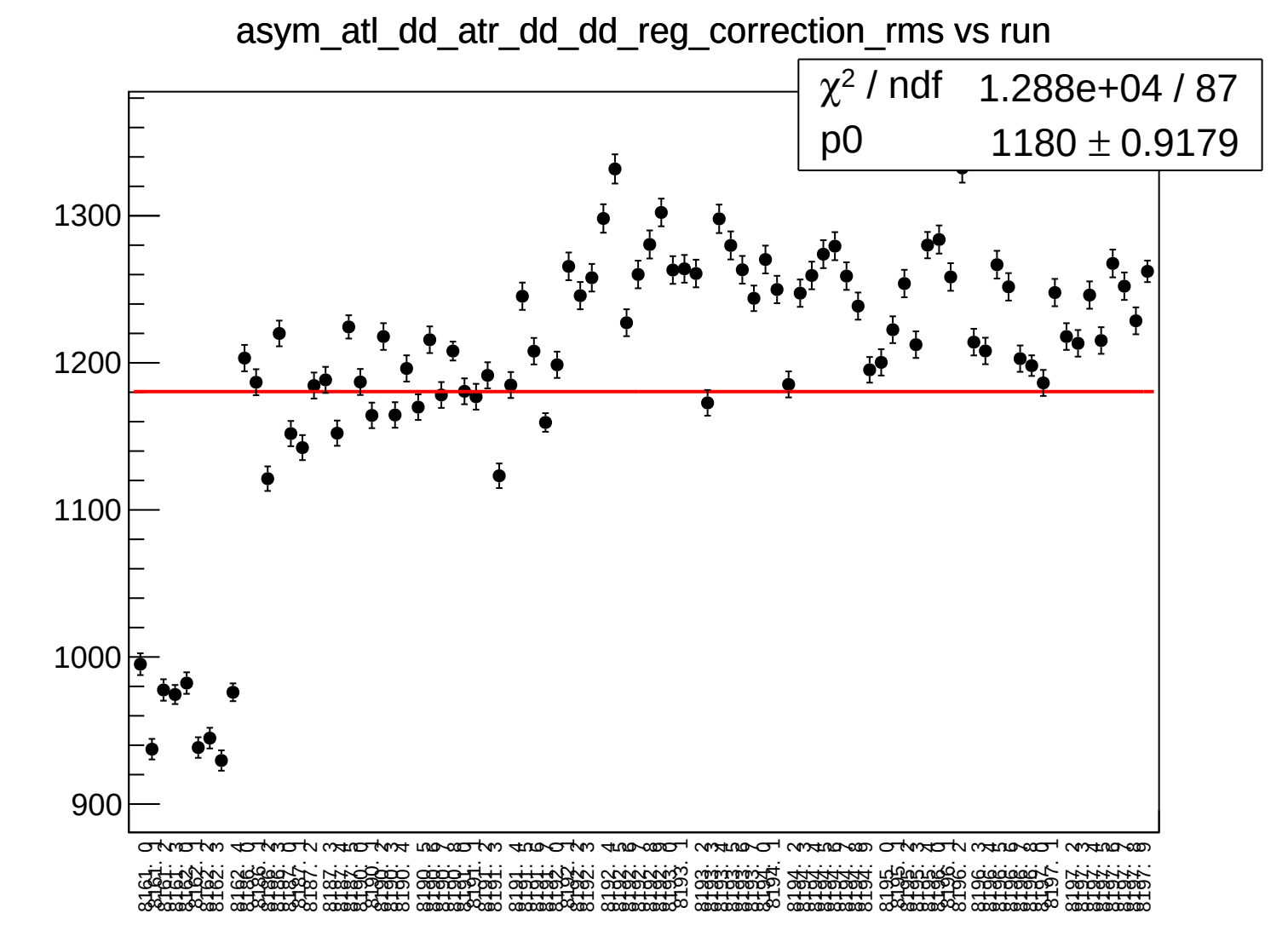

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.842e+05 / 87
p0 6.301e−11 ± 6.706e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

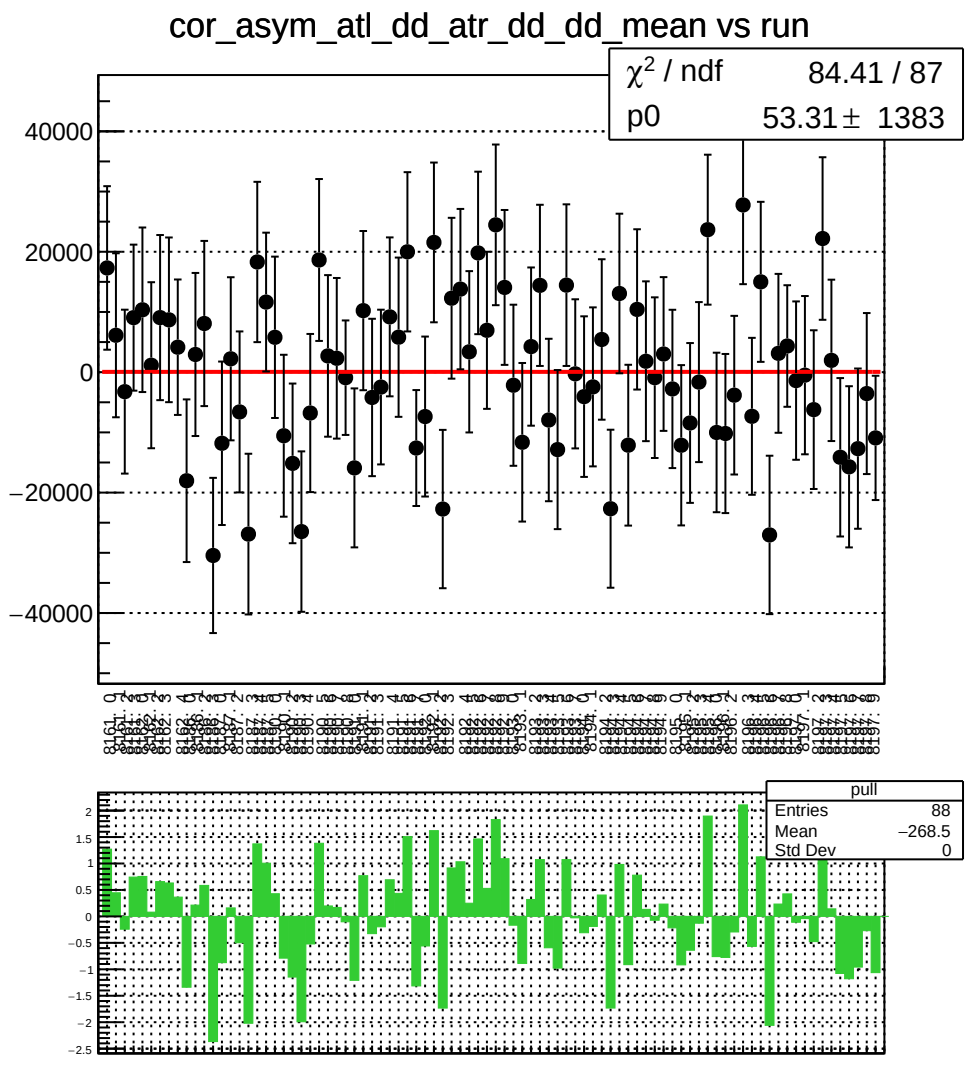

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.41 / 87
p0 53.36 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −268.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

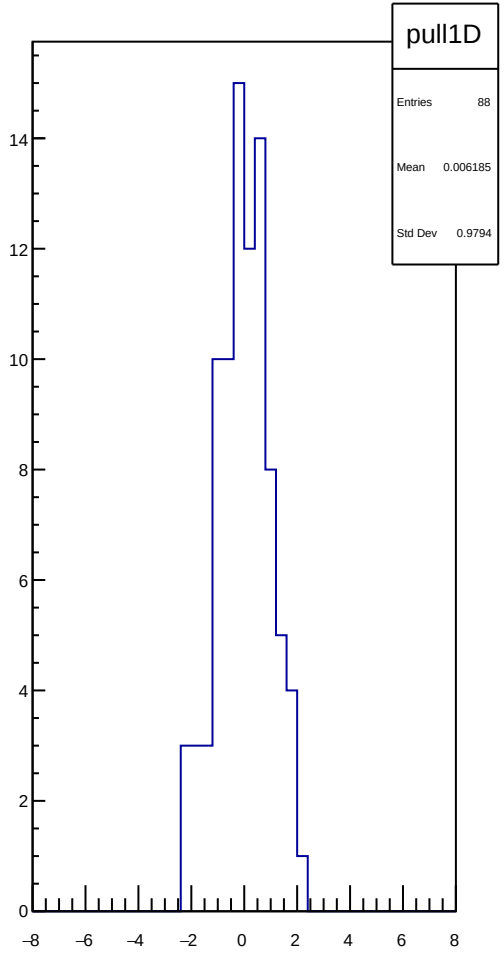

pull1D
Entries 88
Mean 0.006185
Std Dev 0.9794
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

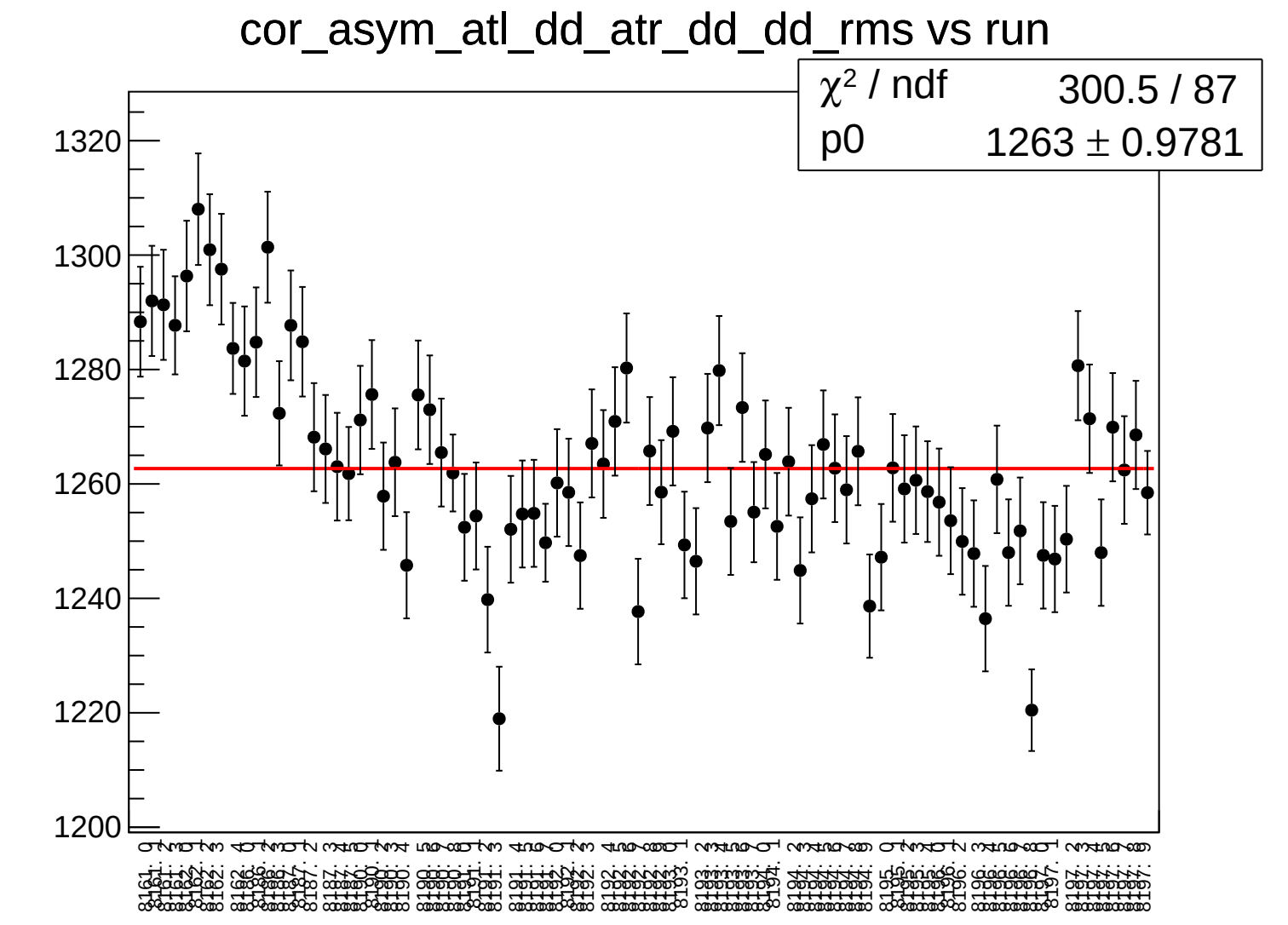

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 300.5 / 87
p0 1263 ± 0.9781
1320
1300
1280
1260
1240
1220
1200

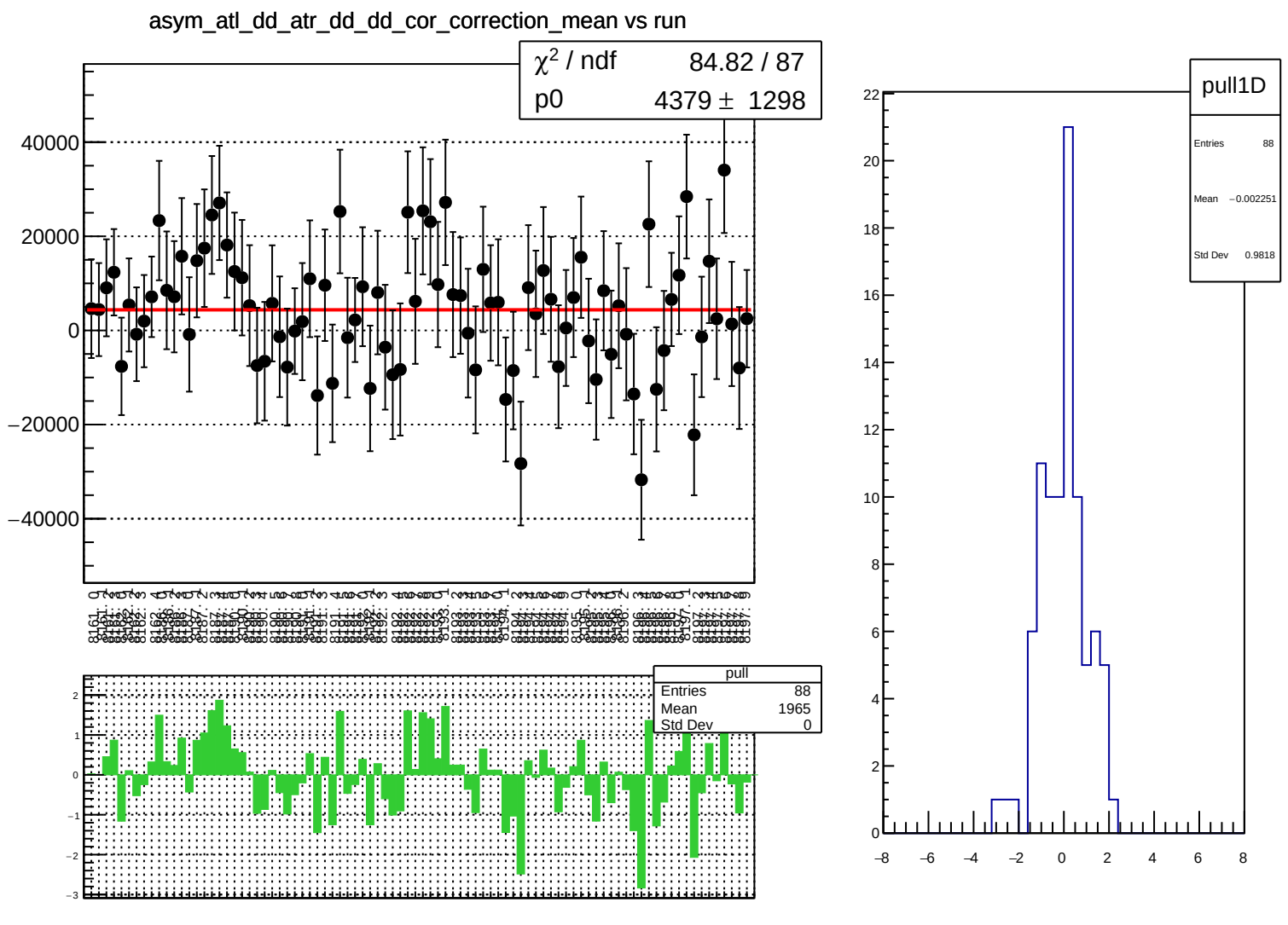

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 84.82 / 87
p0 4379 ± 1298
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1964
Std Dev 0
pull1D
Entries 88
Mean −0.002252
Std Dev 0.9817

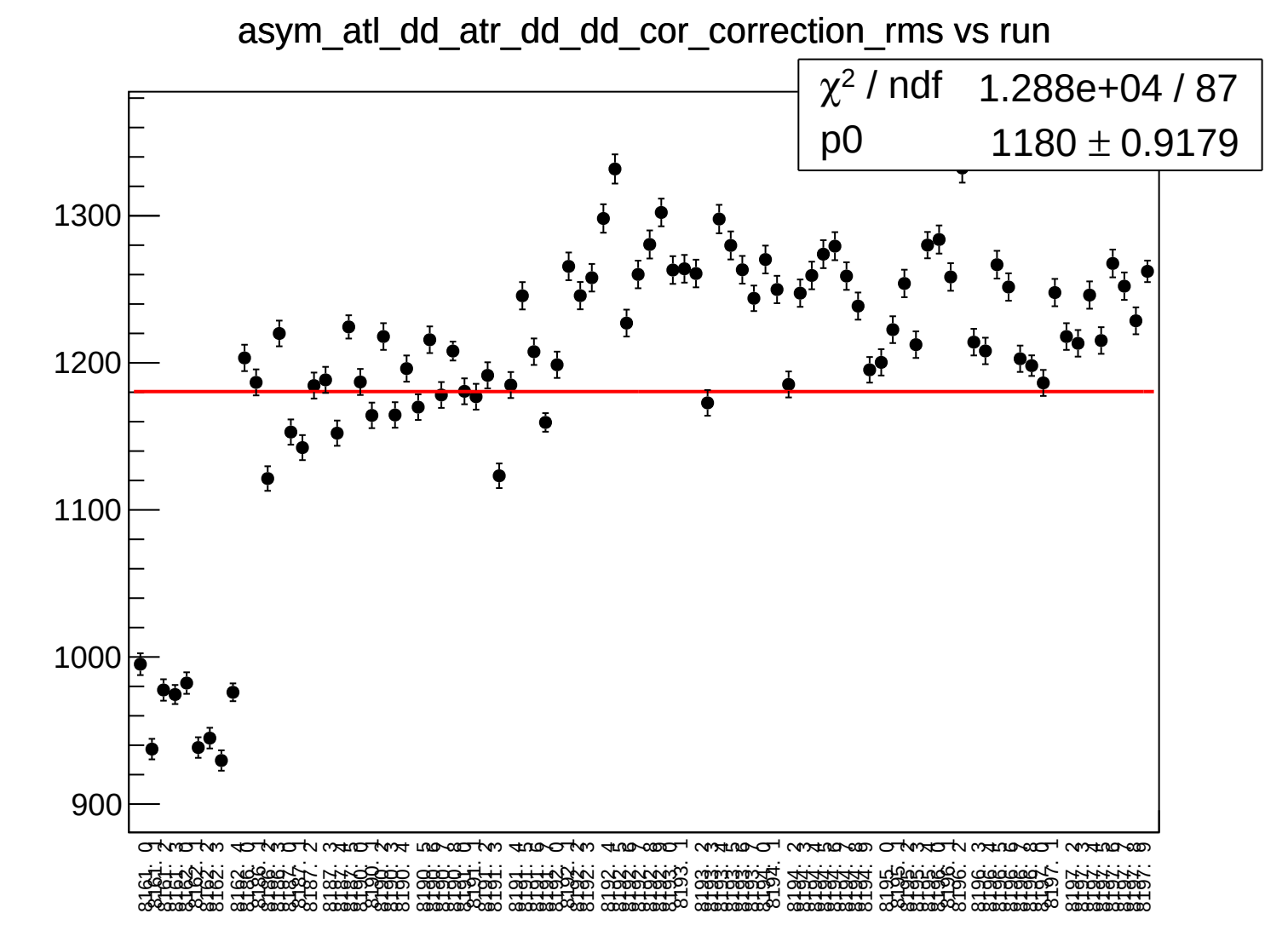

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.288e+04 / 87
p0 1180 ± 0.9179
1300
1200
1100
1000
900

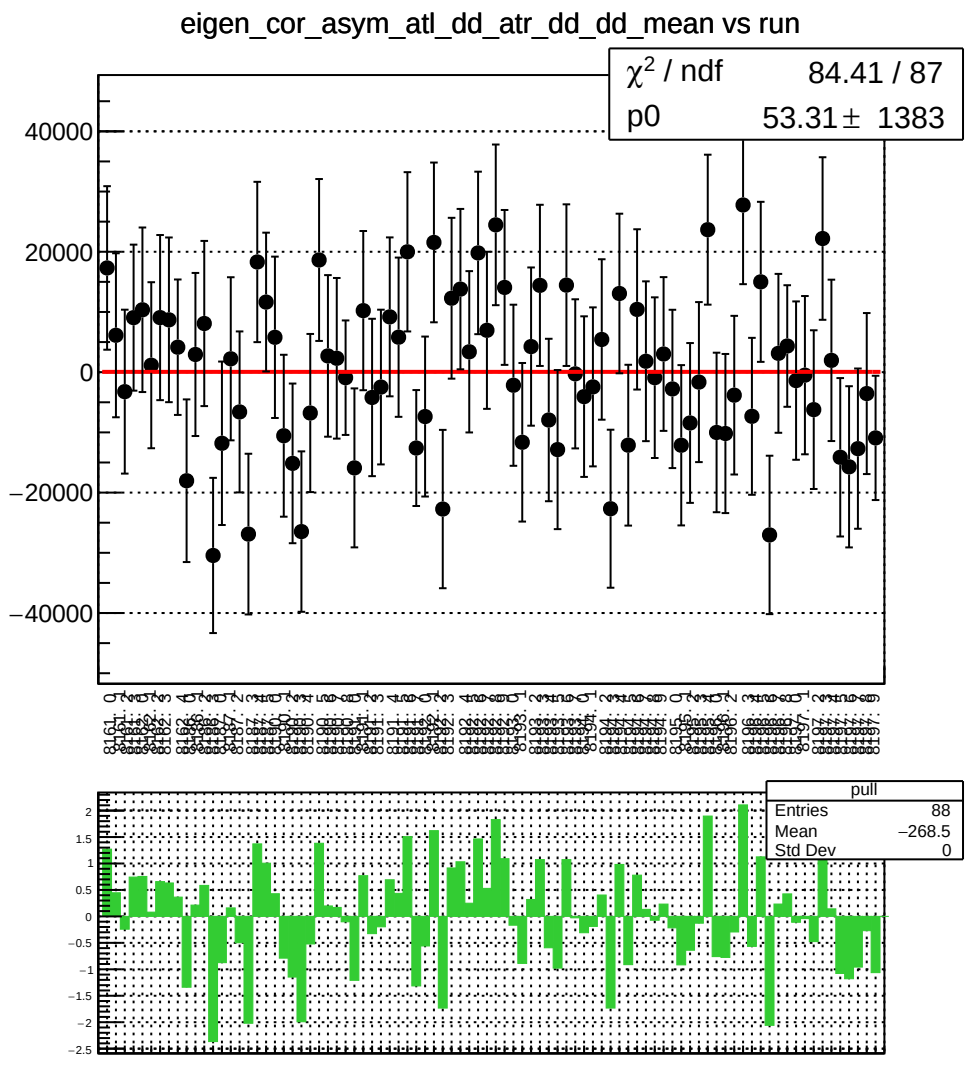

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.41 / 87
p0 53.31 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −268.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

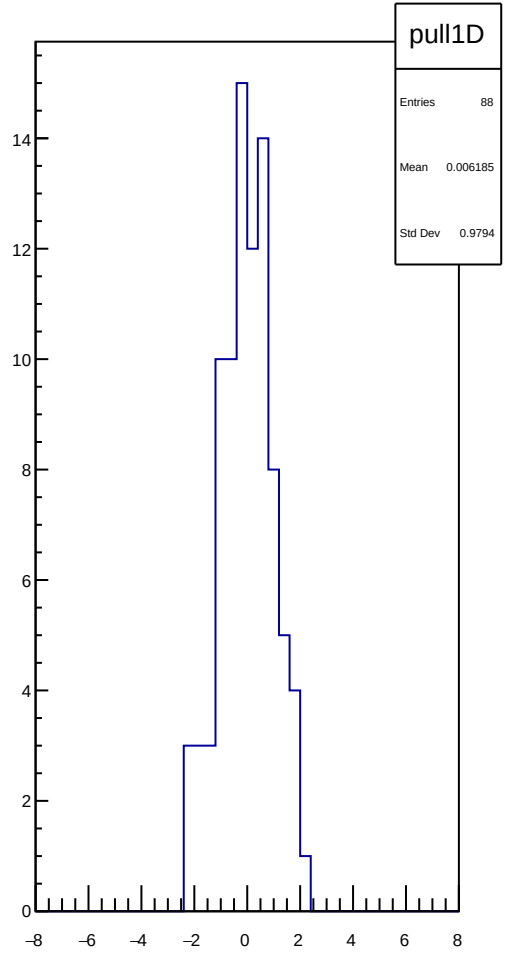

pull1D
Entries 88
Mean 0.006185
Std Dev 0.9794
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 300.5 / 87
p0 1263 ± 0.9781
1320
1300
1280
1260
1240
1220
1200


asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 84.82 / 87
p0 4379 ± 1298
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1965
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.002251
Std Dev 0.9818
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 87
p0 1180 ± 0.9179
1300
1200
1100
1000
900


eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.41 / 87
p0 53.31 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −268.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean 0.006185
Std Dev 0.9794
14
12
10
8
6
4
2
0
−8
−6
−4
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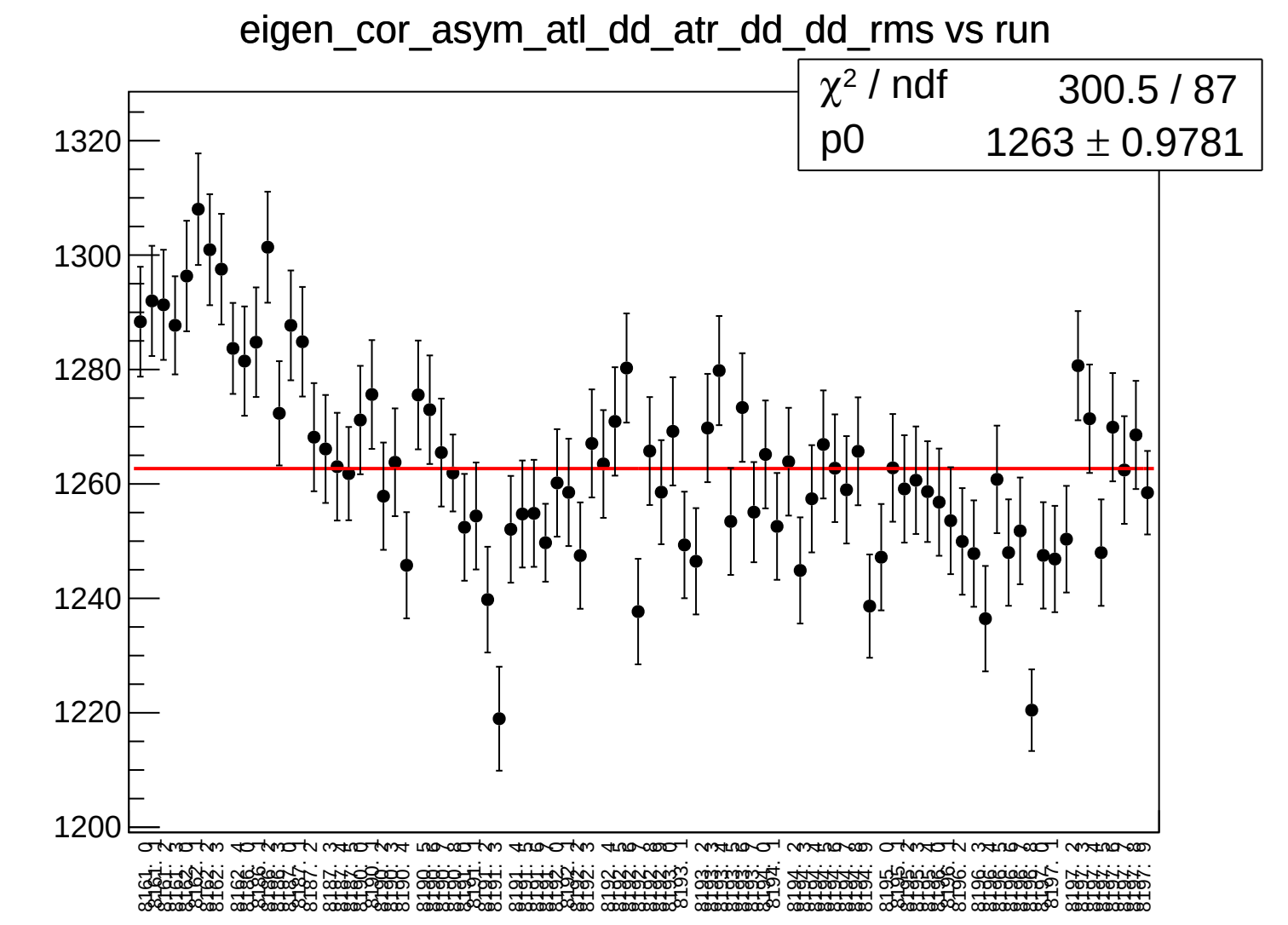
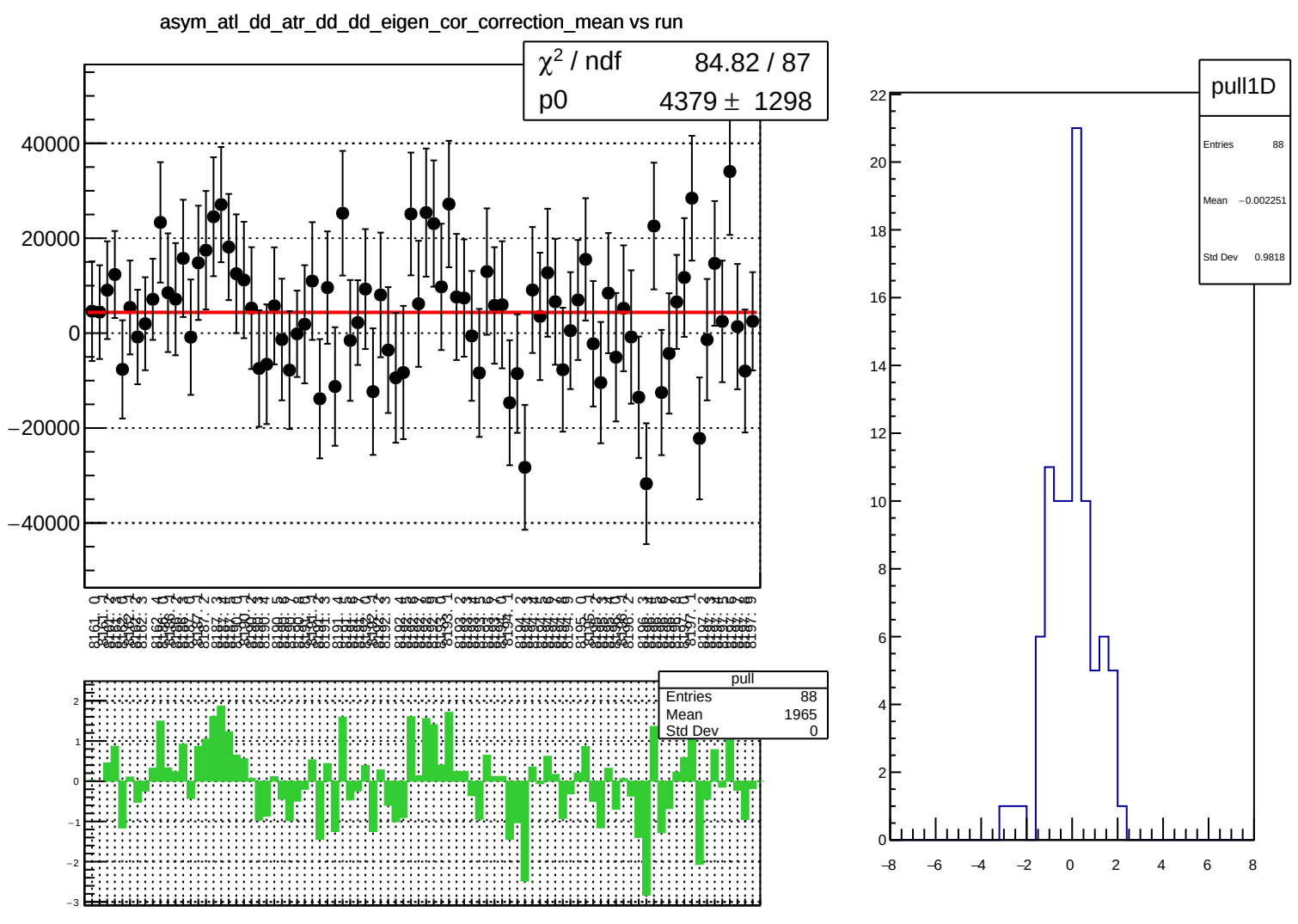
0
2
4
6
8


eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 300.5 / 87
p0 1263 ± 0.9781
1320
1300
1280
1260
1240
1220
1200


asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.82 / 87
p0 4379 ± 1298
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1965
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.002251
Std Dev 0.9818
22
20
18
16
14
12
10
8
6
4
2
0
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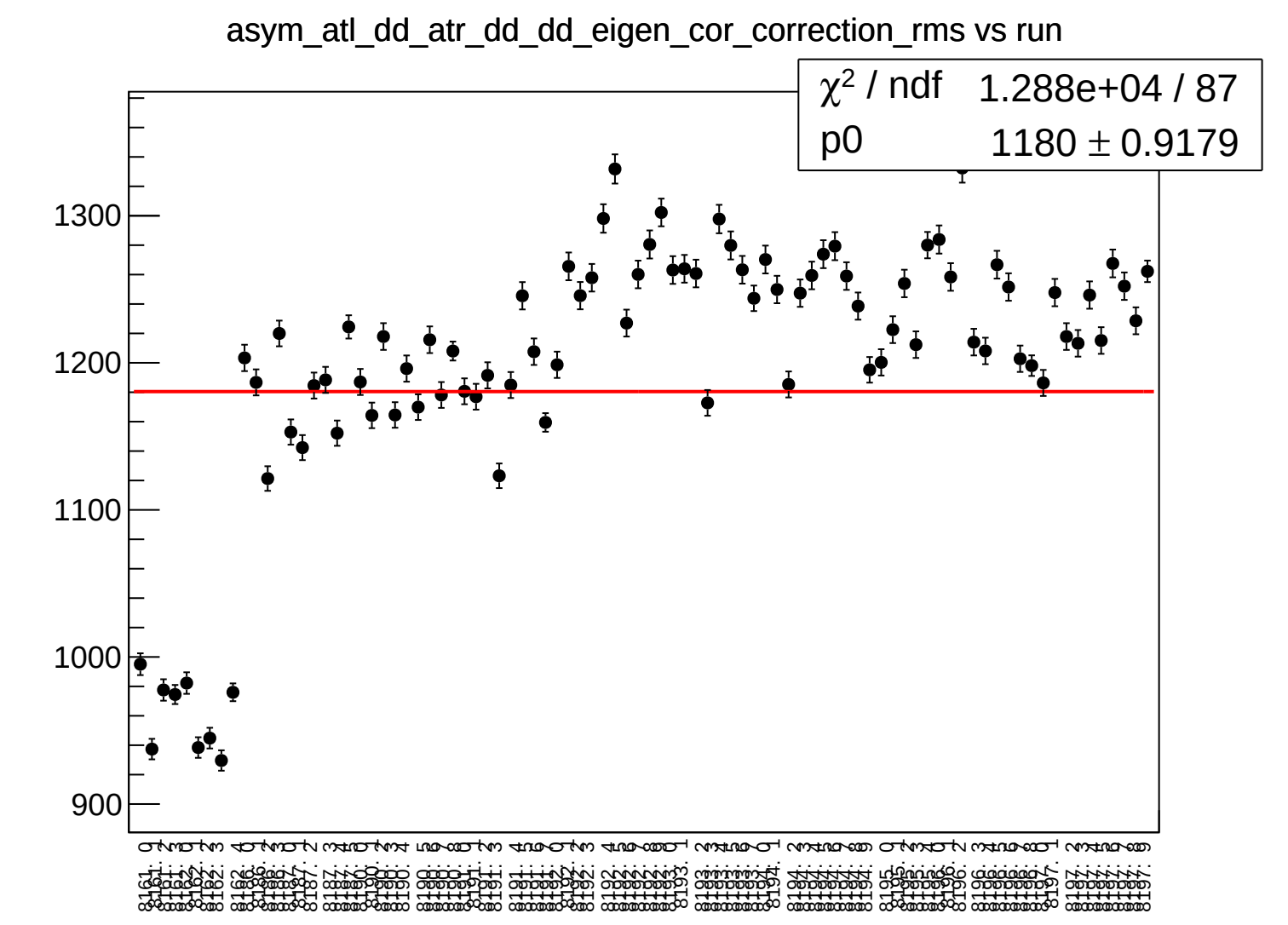
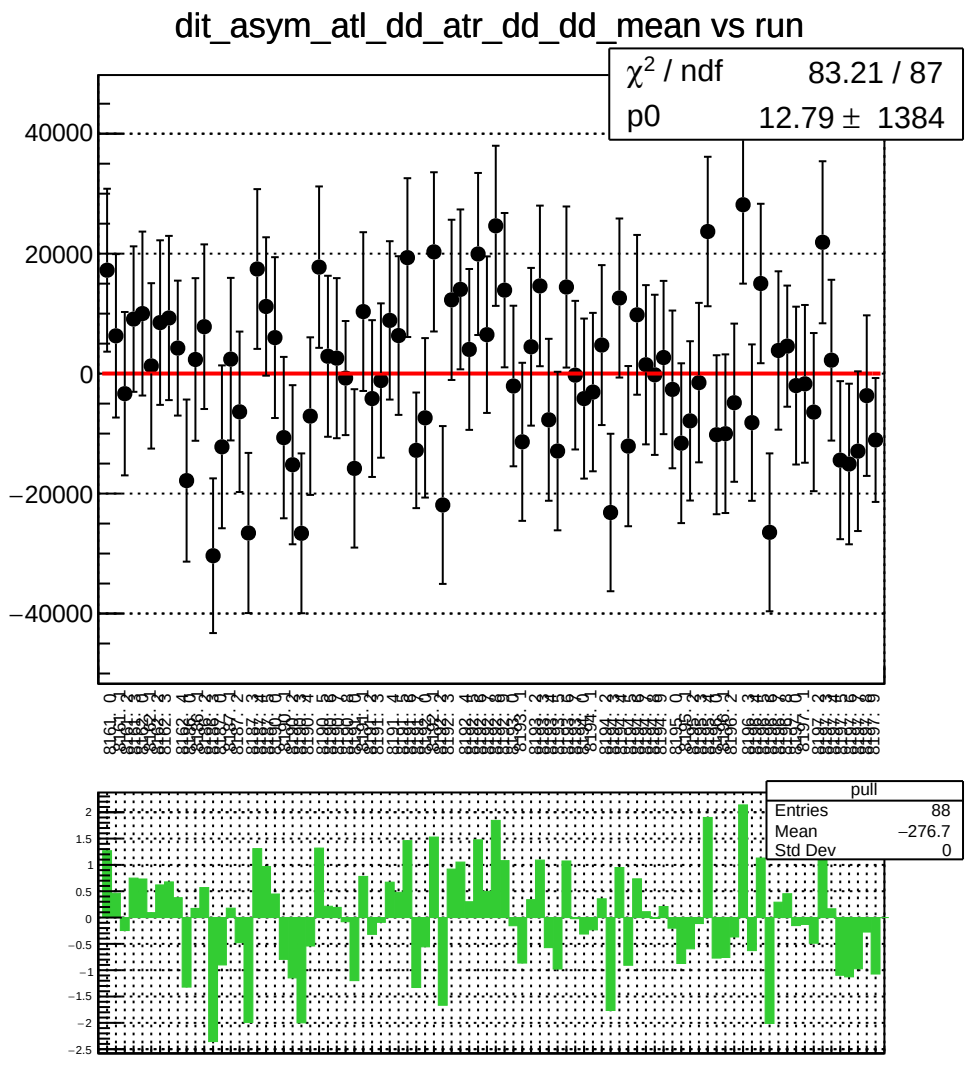
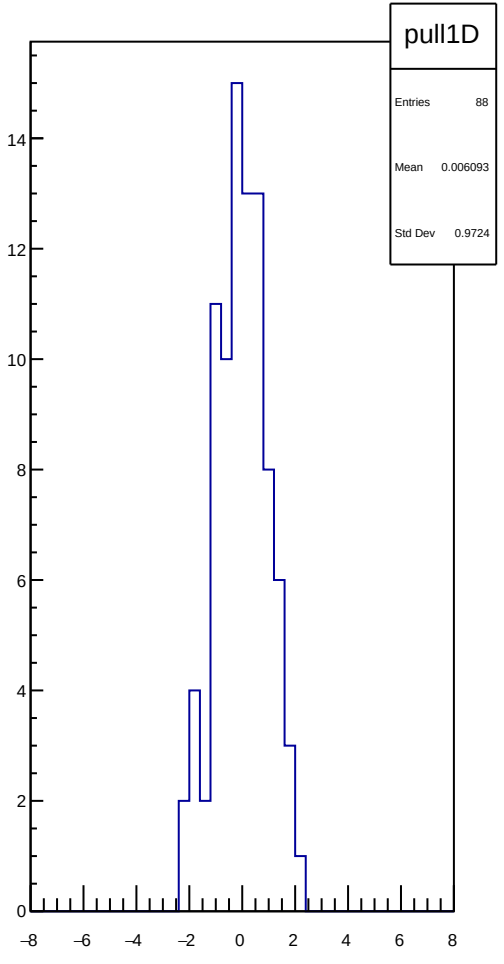
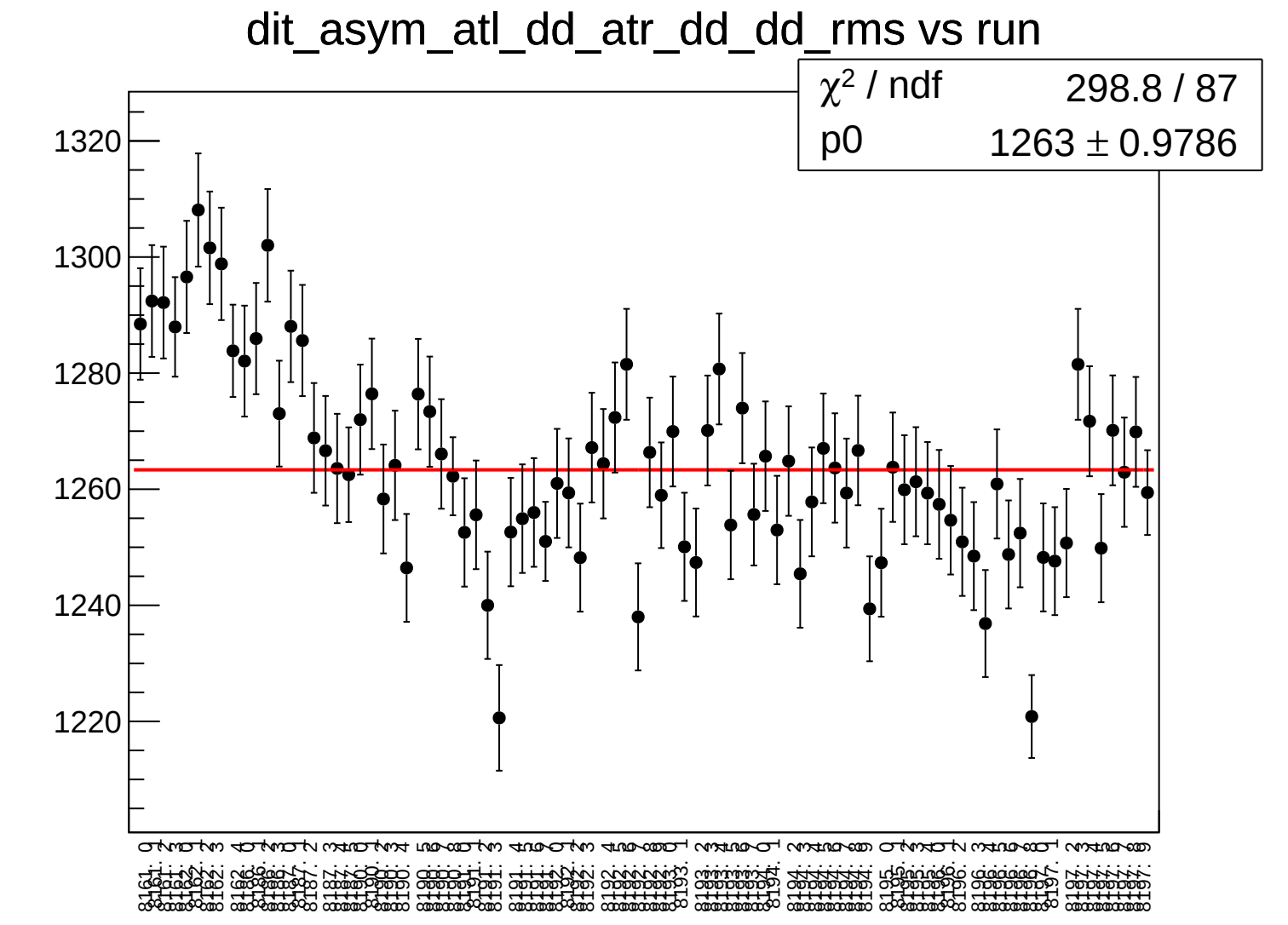
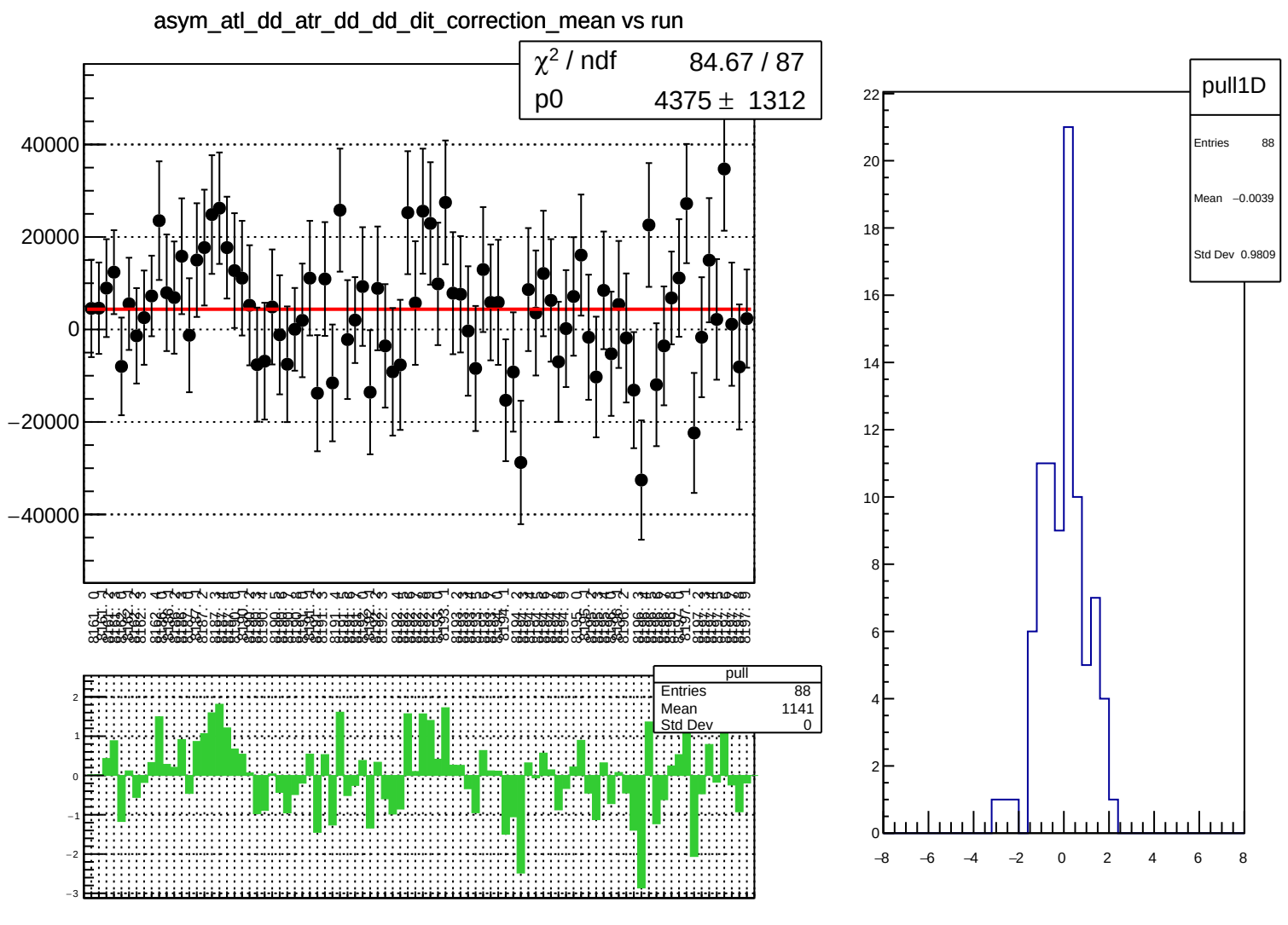
−6
−4
−2
0
2
4
6
8

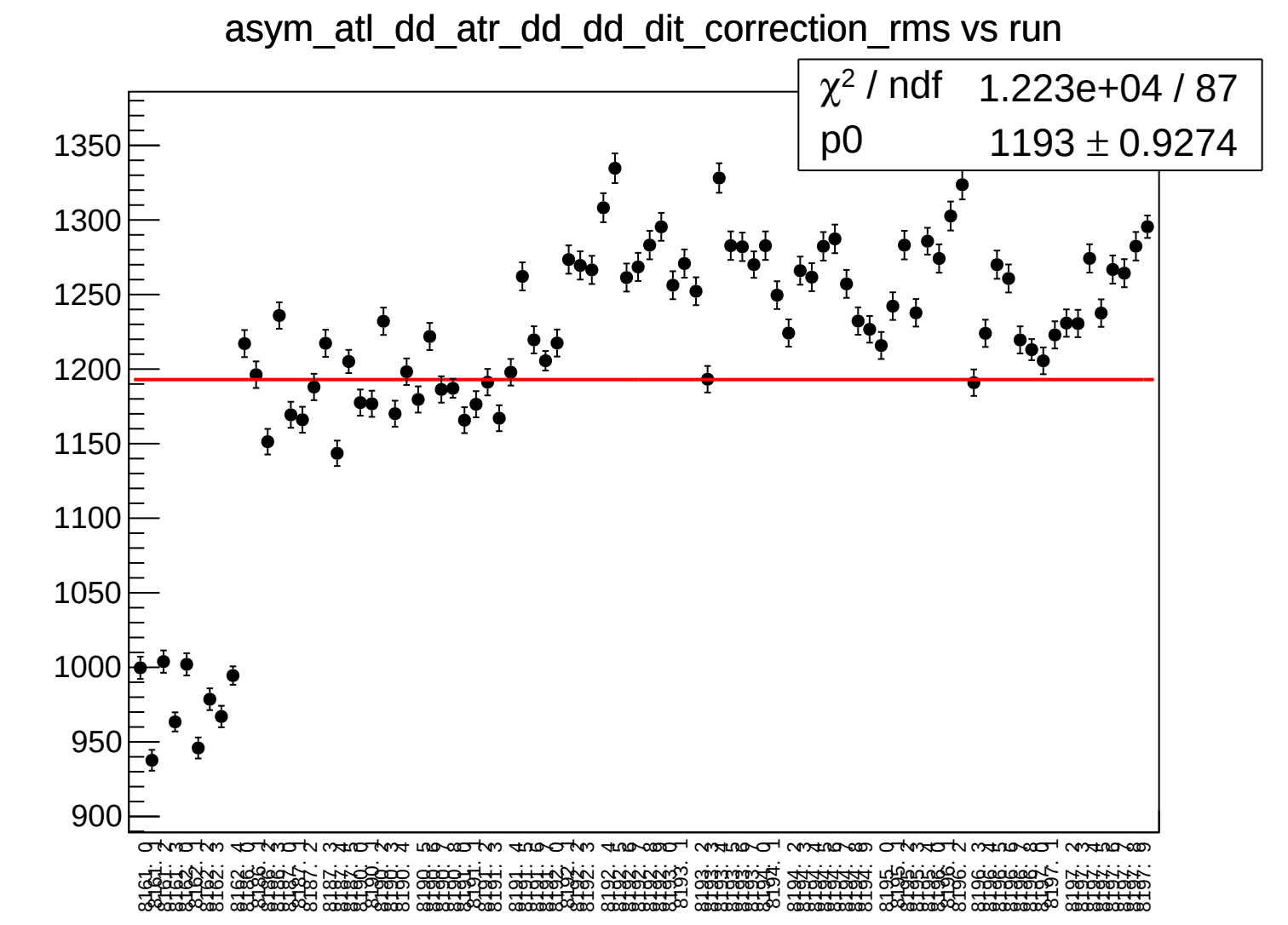

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 87
p0 1180 ± 0.9179
1300
1200
1100
1000
900

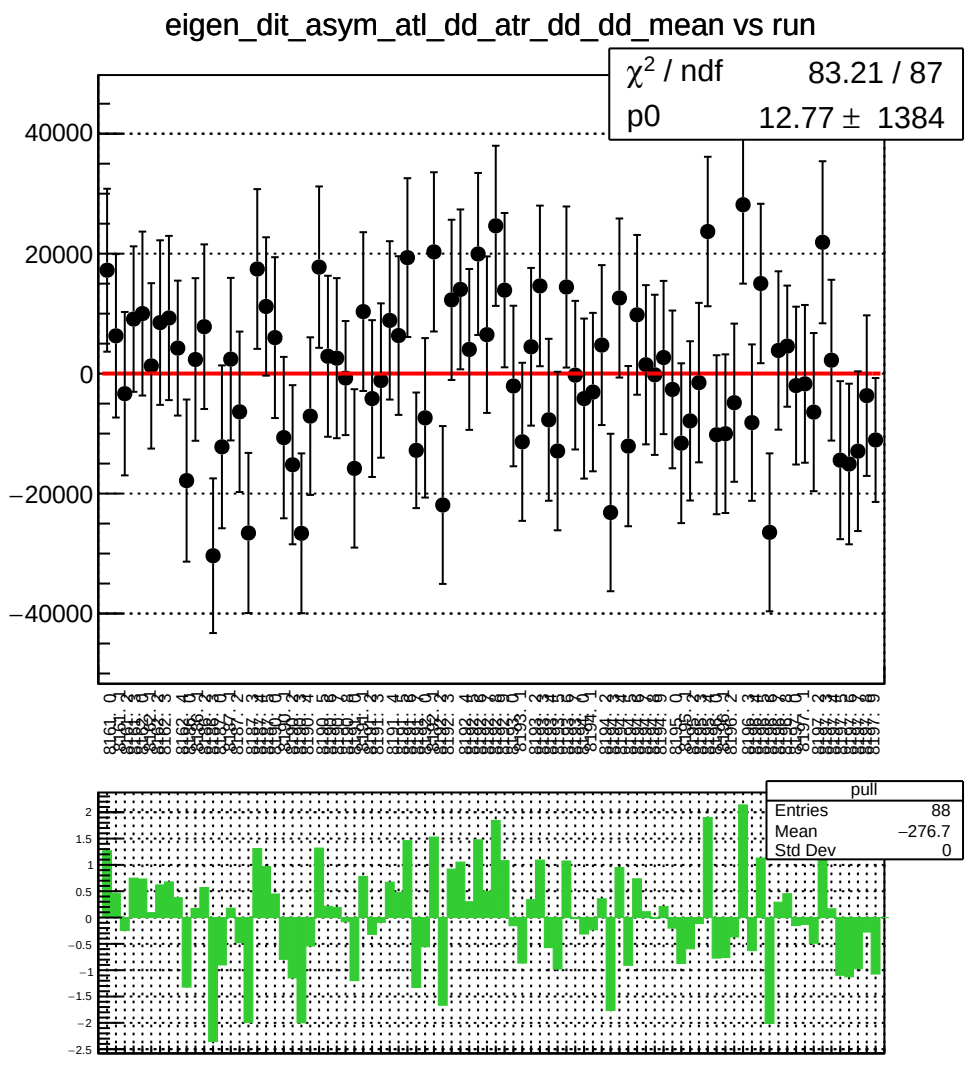

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.21 / 87
p0 12.79 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −276.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

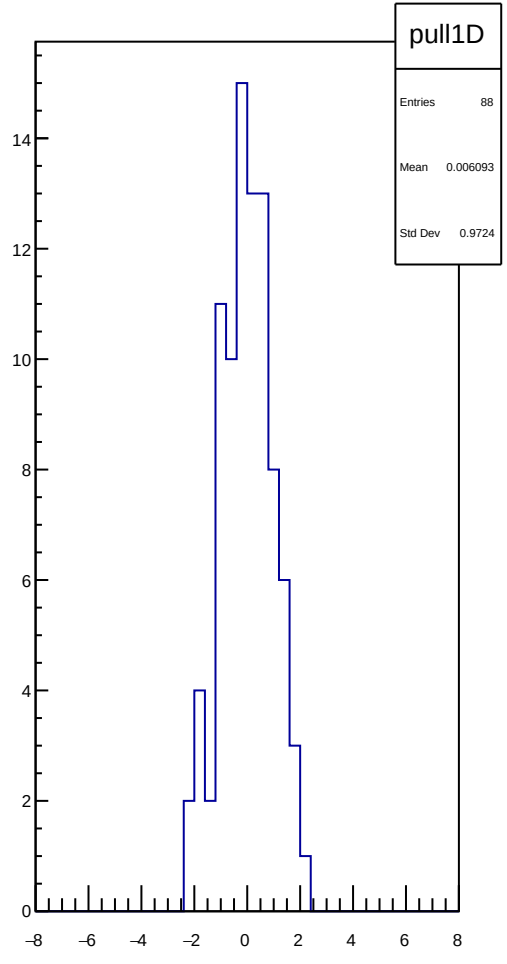

pull1D
Entries 88
Mean 0.006093
Std Dev 0.9724
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

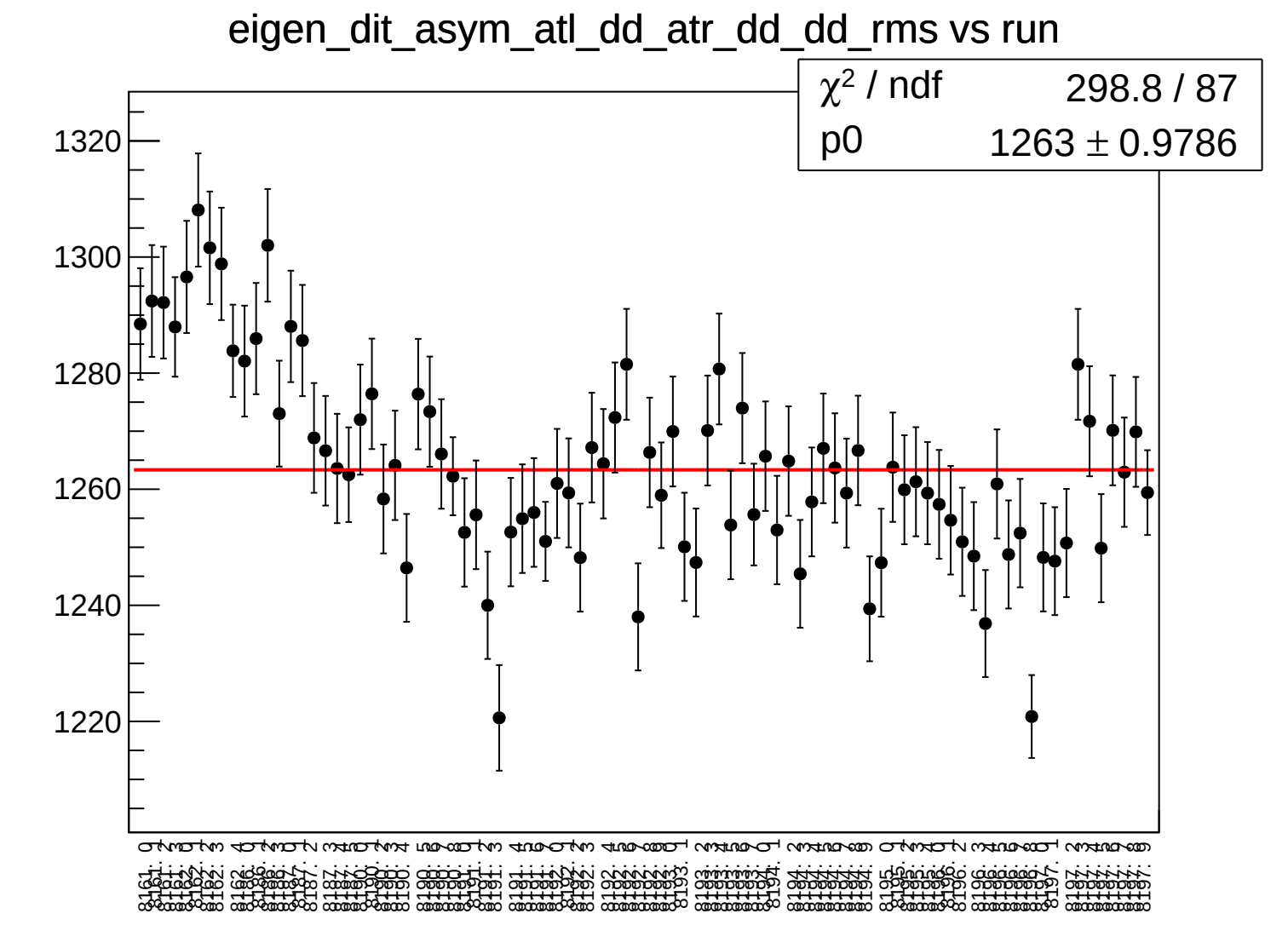

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 298.8 / 87
p0 1263 ± 0.9786
1320
1300
1280
1260
1240
1220

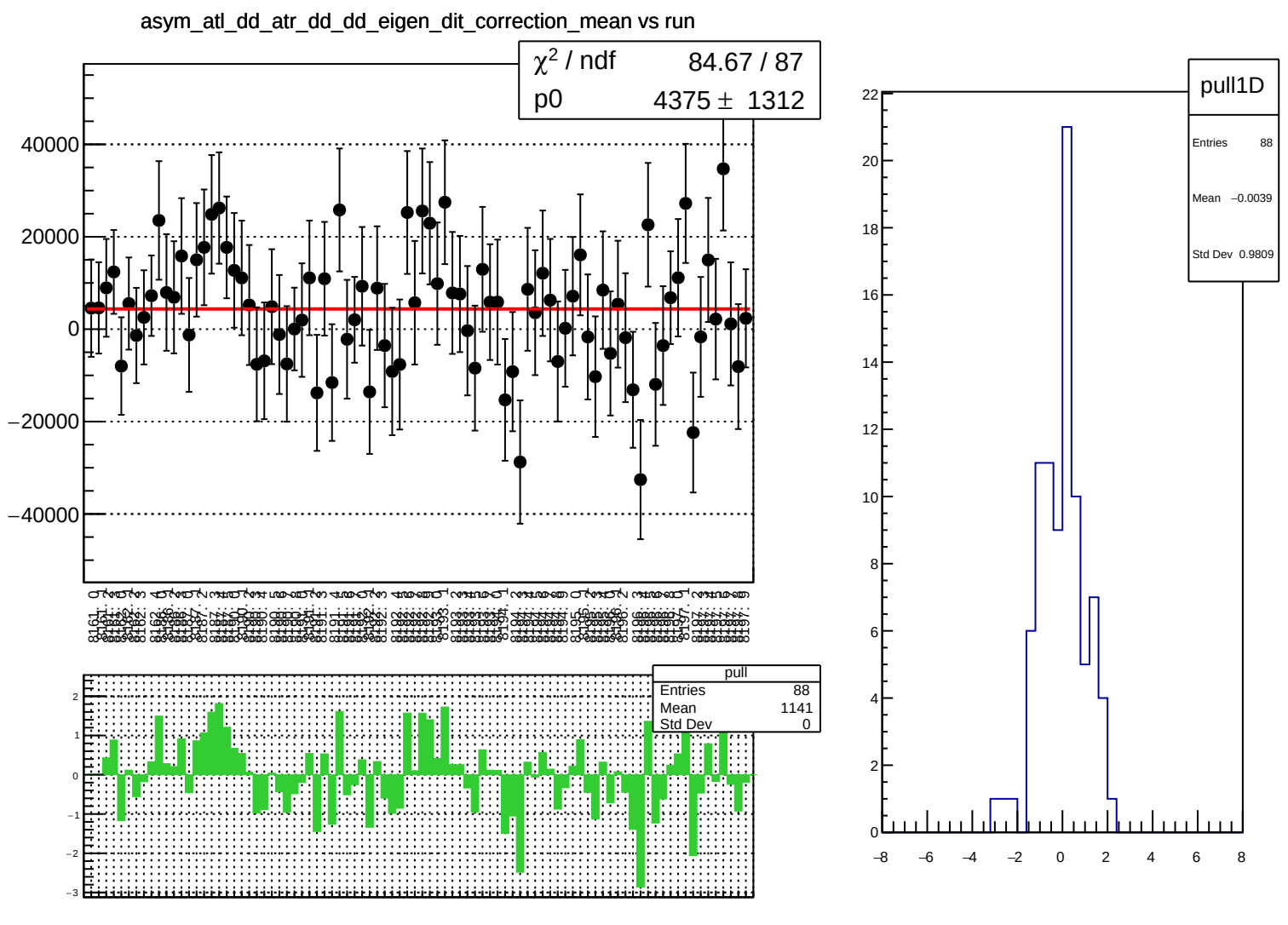

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 84.67 / 87
p0 4375 ± 1312
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1141
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0039
Std Dev 0.9809
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

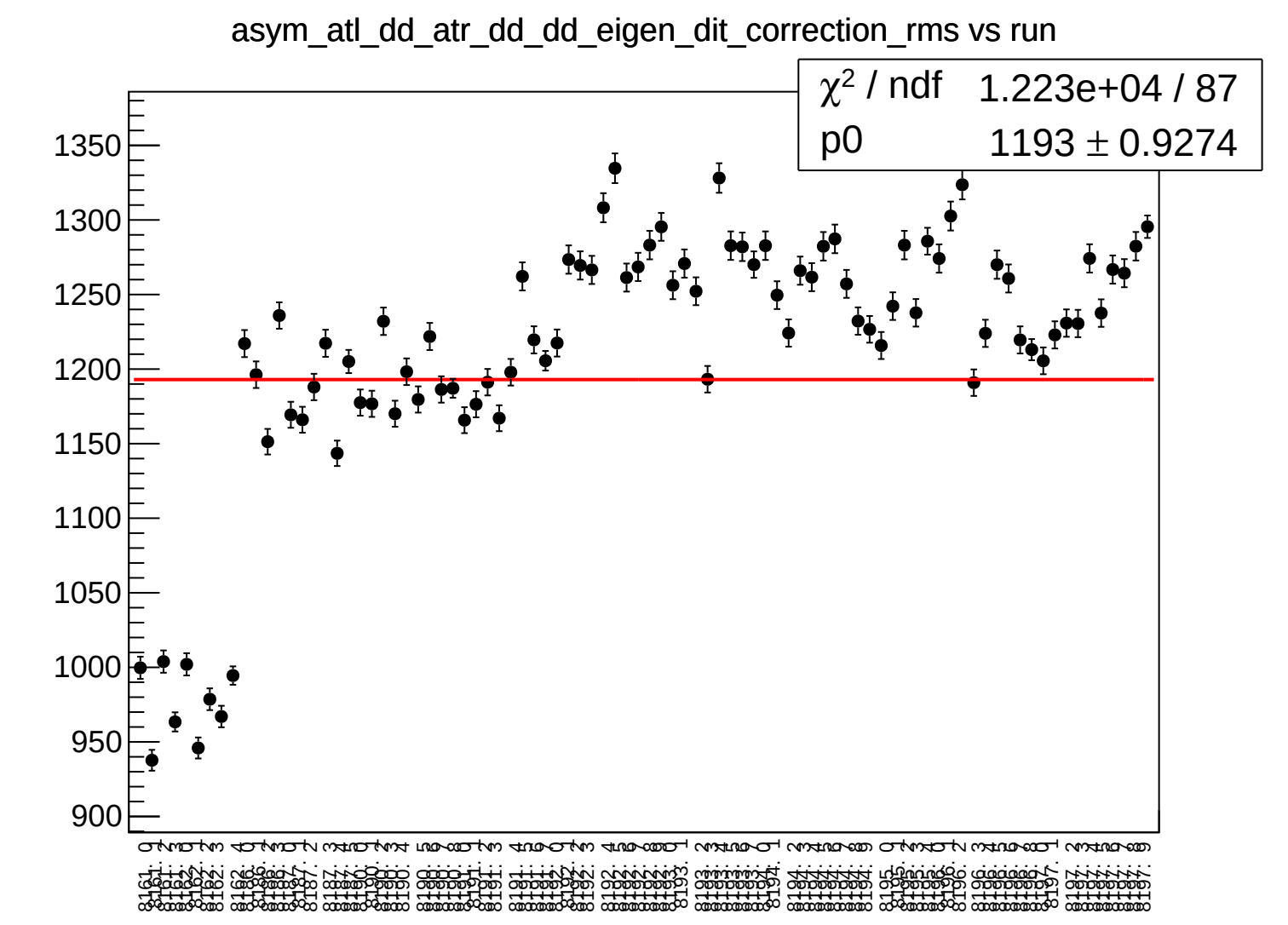

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.223e+04 / 87
p0 1193 ± 0.9274
1350
1300
1250
1200
1150
1100
1050
1000
950
900

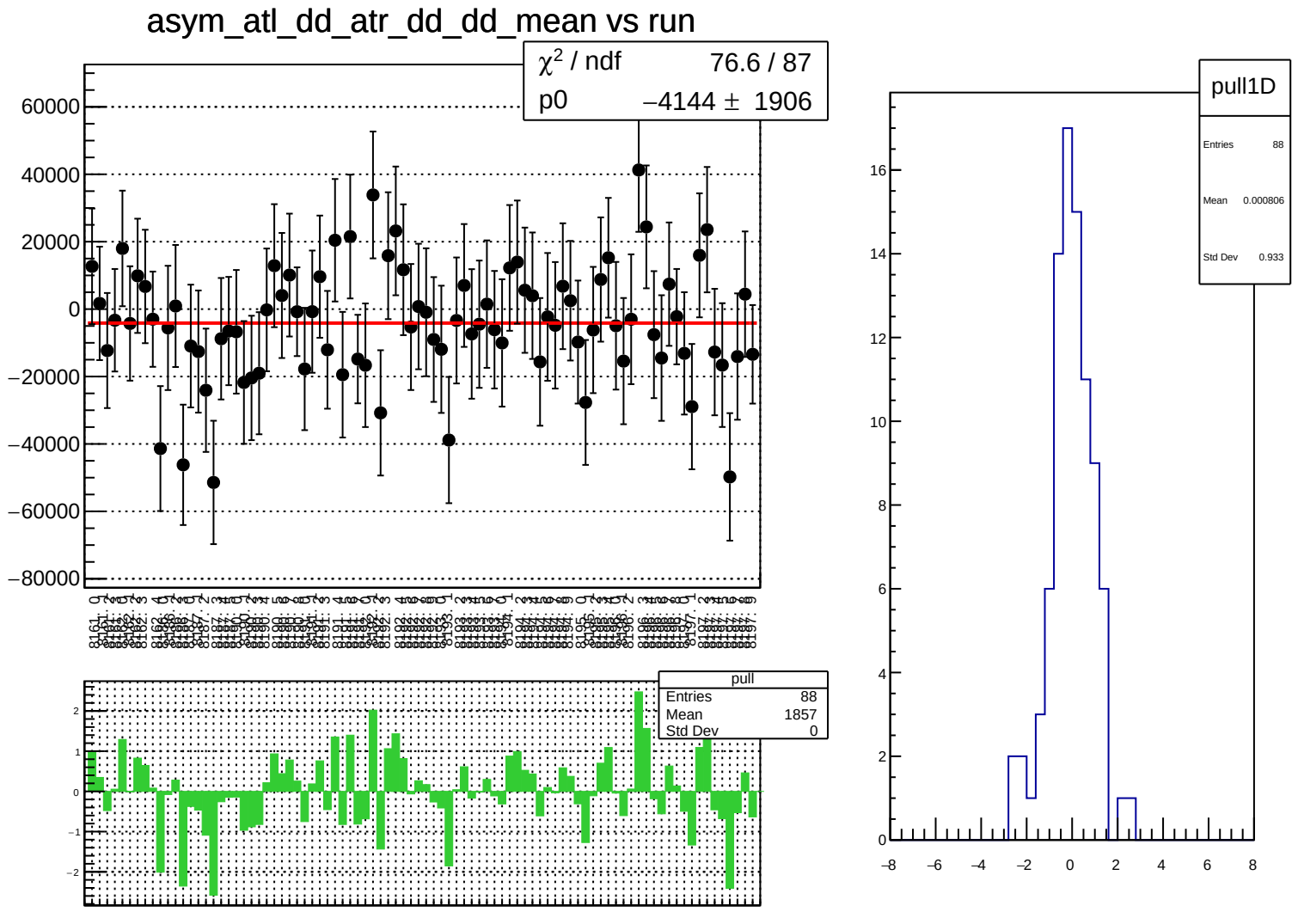

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.21 / 87
p0 12.77 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −276.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

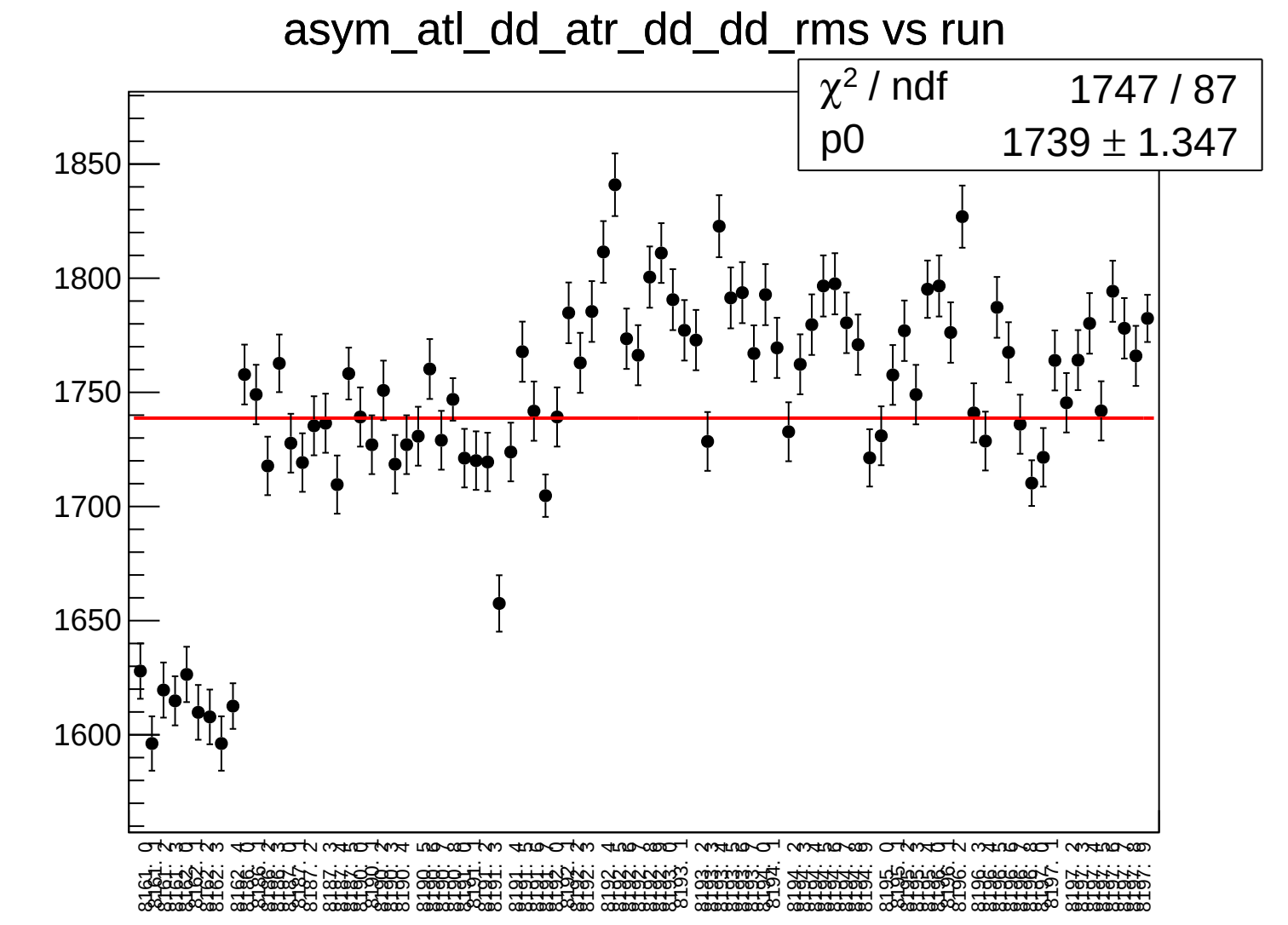

pull1D
Entries 88
Mean 0.006093
Std Dev 0.9724
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

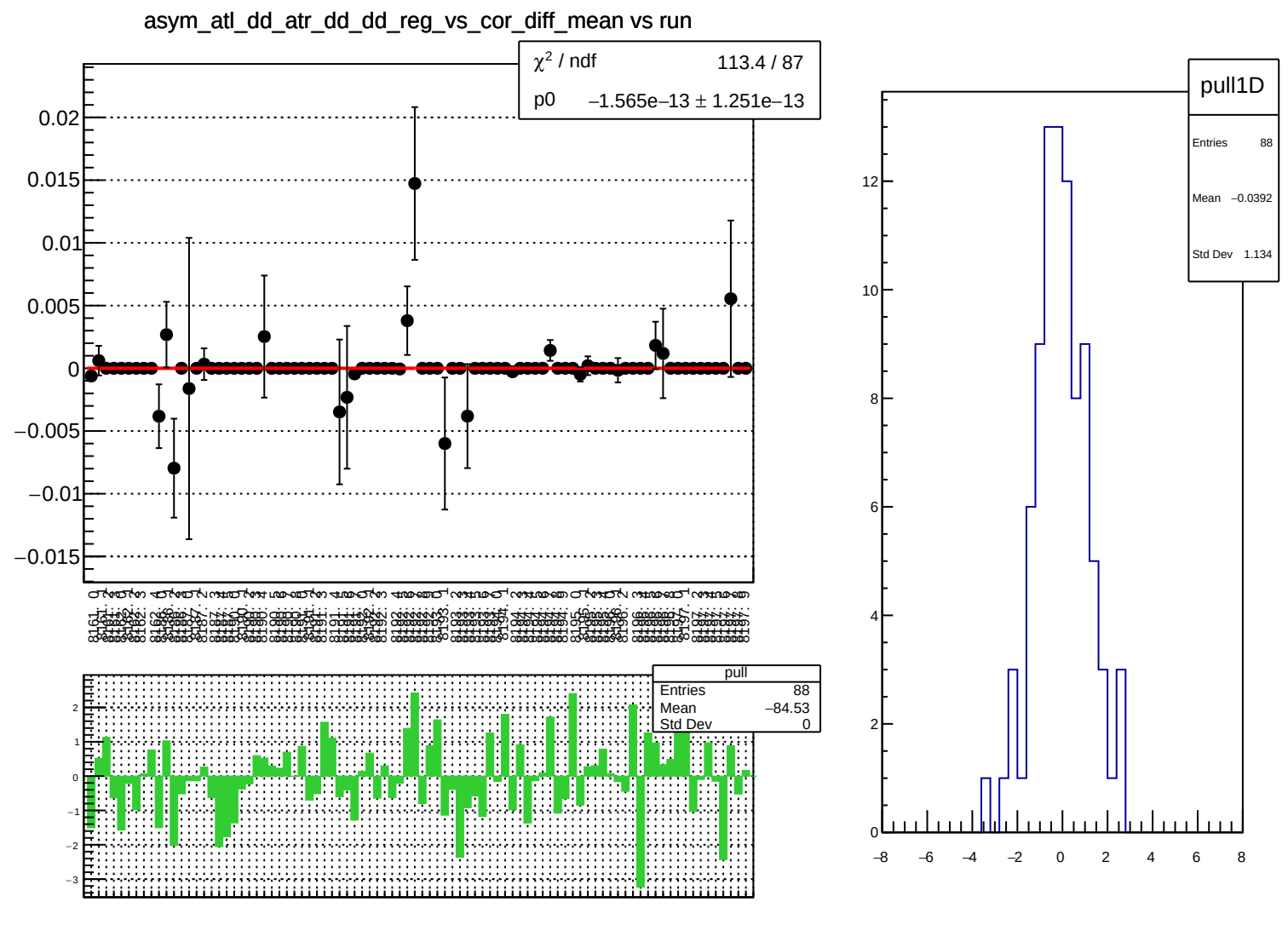

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 298.8 / 87
p0 1263 ± 0.9786
1320
1300
1280
1260
1240
1220

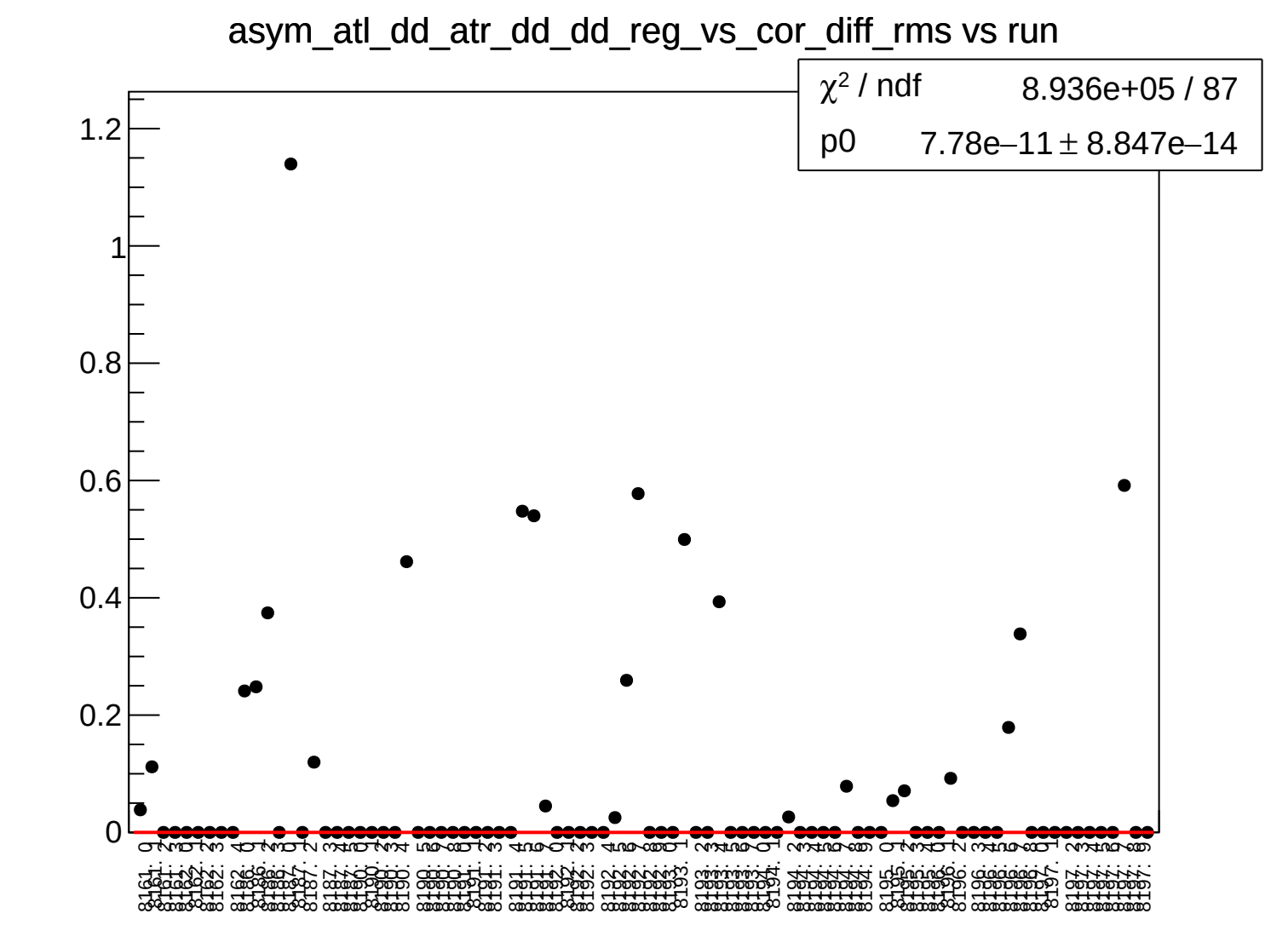

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.67 / 87
p0 4375 ± 1312
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1141
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0039
Std Dev 0.9809
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

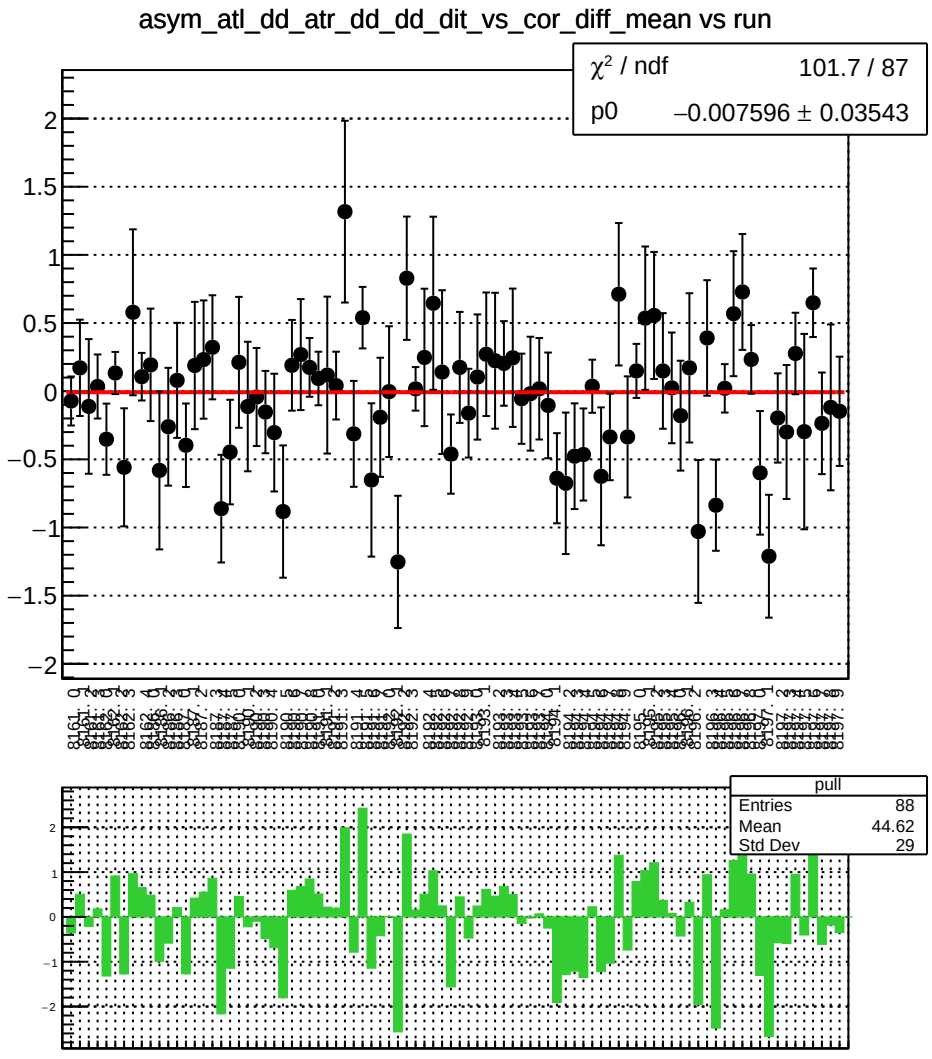

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.223e+04 / 87
p0 1193 ± 0.9274
1350
1300
1250
1200
1150
1100
1050
1000
950
900

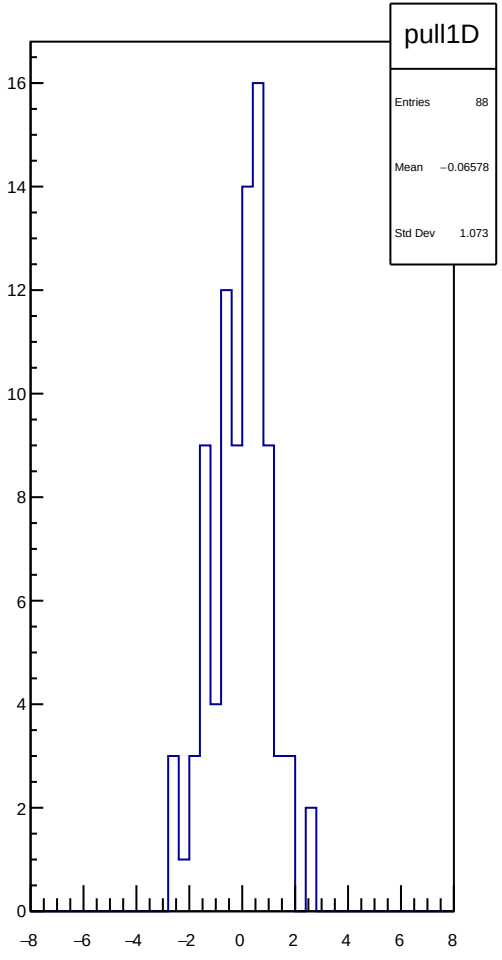

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 76.6 / 87
p0 −4144 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 1857
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.000806
Std Dev 0.933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

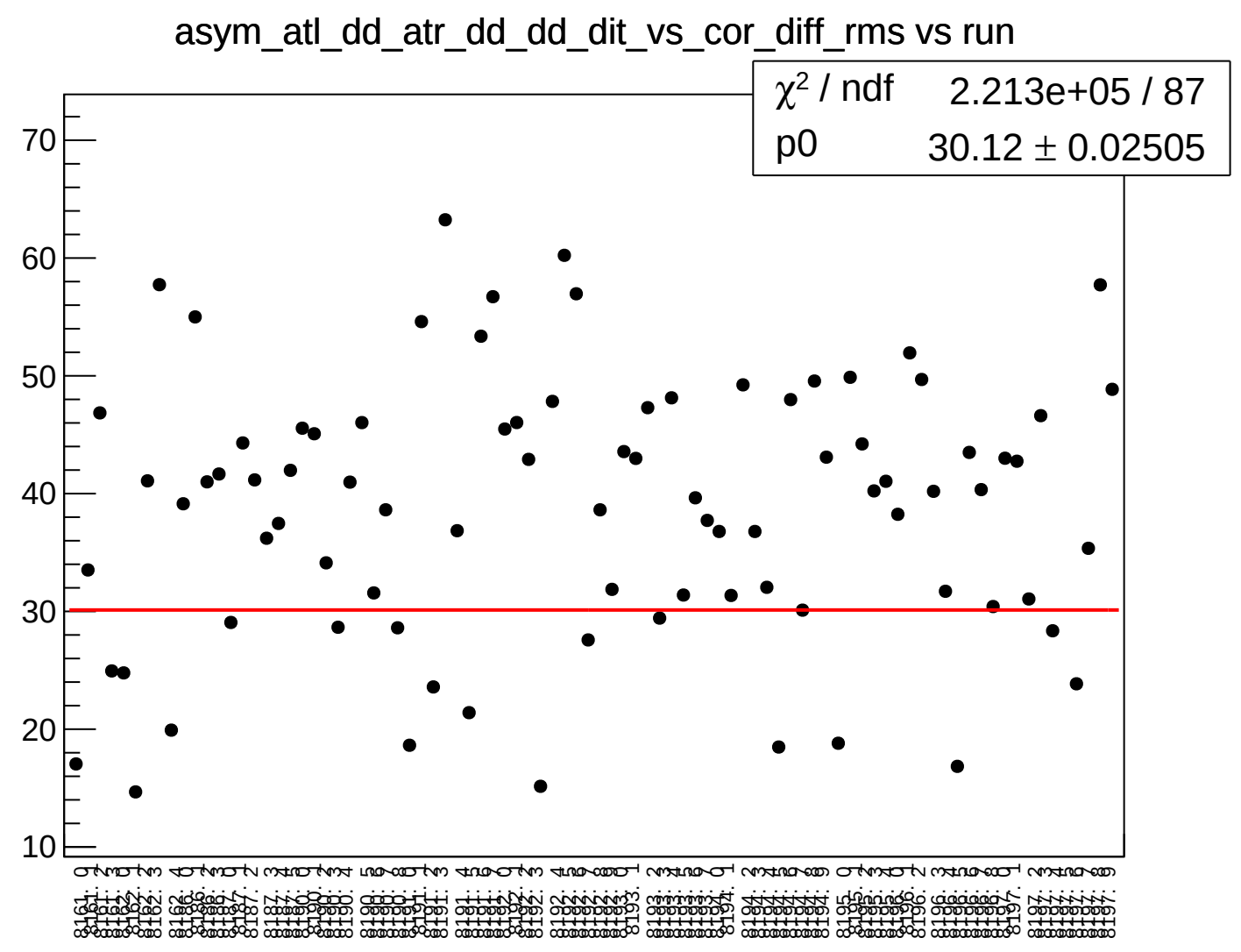

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1747 / 87
p0 1739 ± 1.347
1850
1800
1750
1700
1650
1600

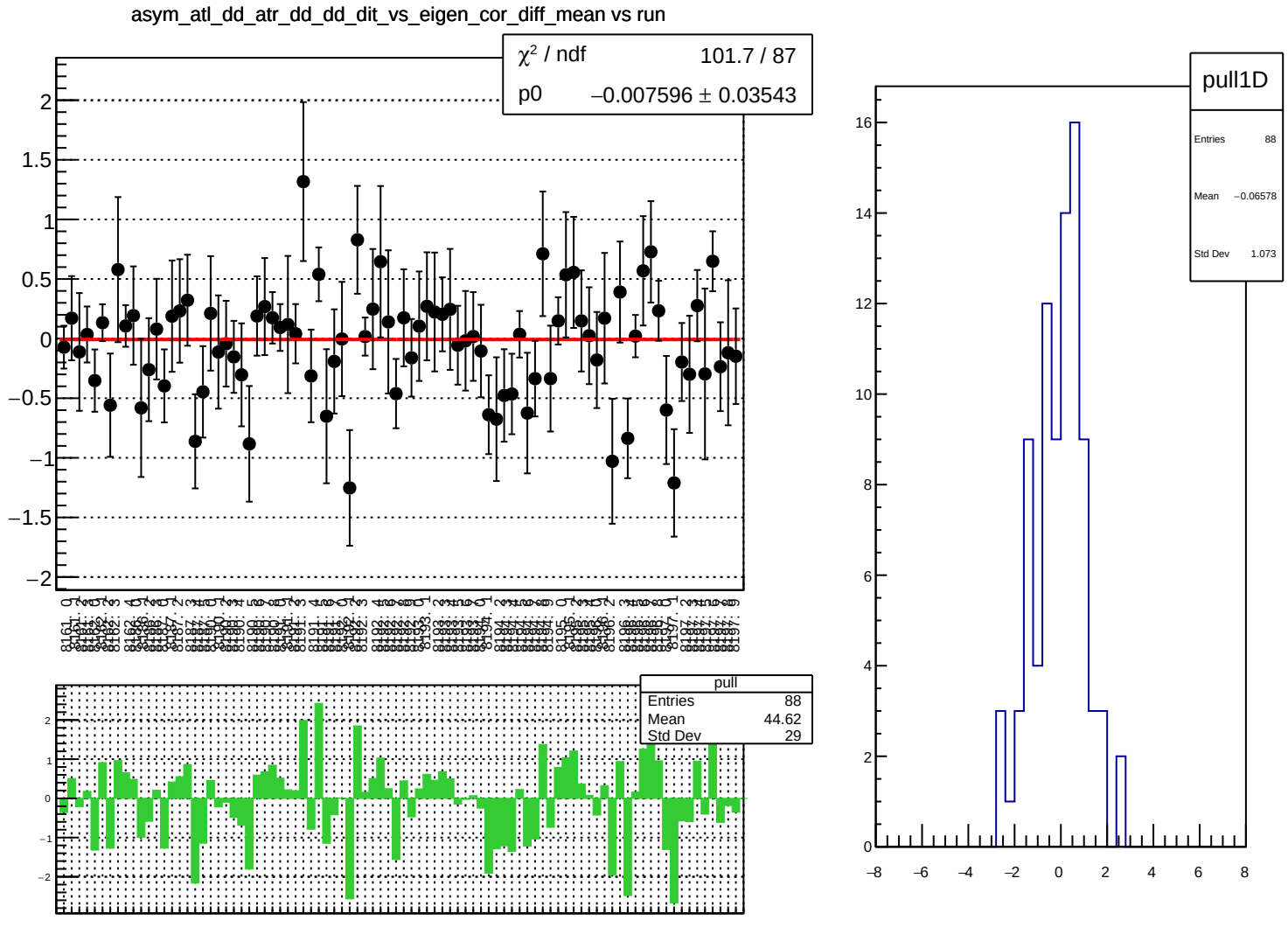

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 87
p0 −1.565e−13 ± 1.251e−13
pull
Entries 88
Mean −84.53
Std Dev 0
pull1D
Entries 88
Mean −0.0392
Std Dev 1.134

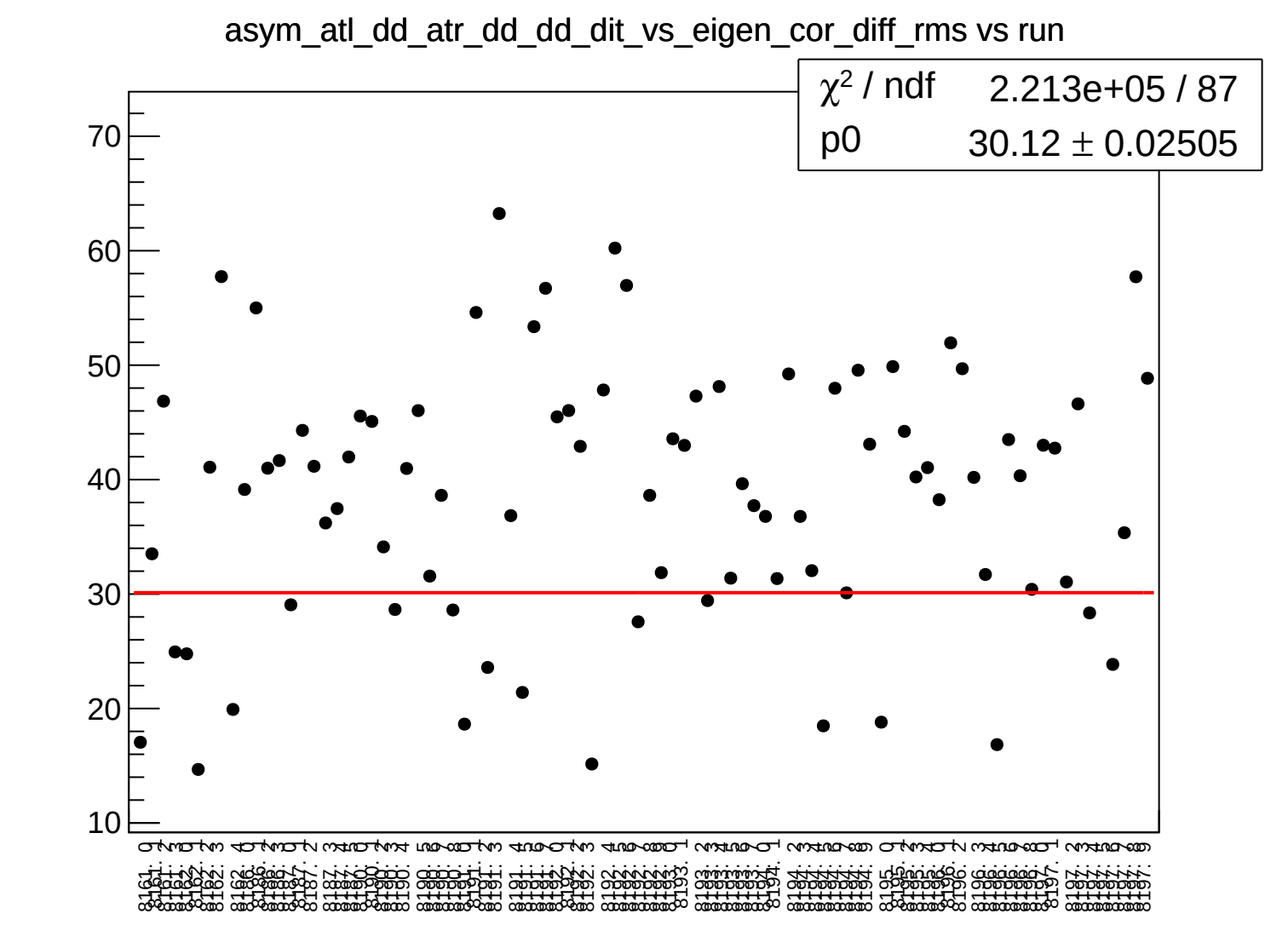

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.936e+05 / 87
p0 7.78e−11 ± 8.847e−14
1.2
1
0.8
0.6
0.4
0.2
0

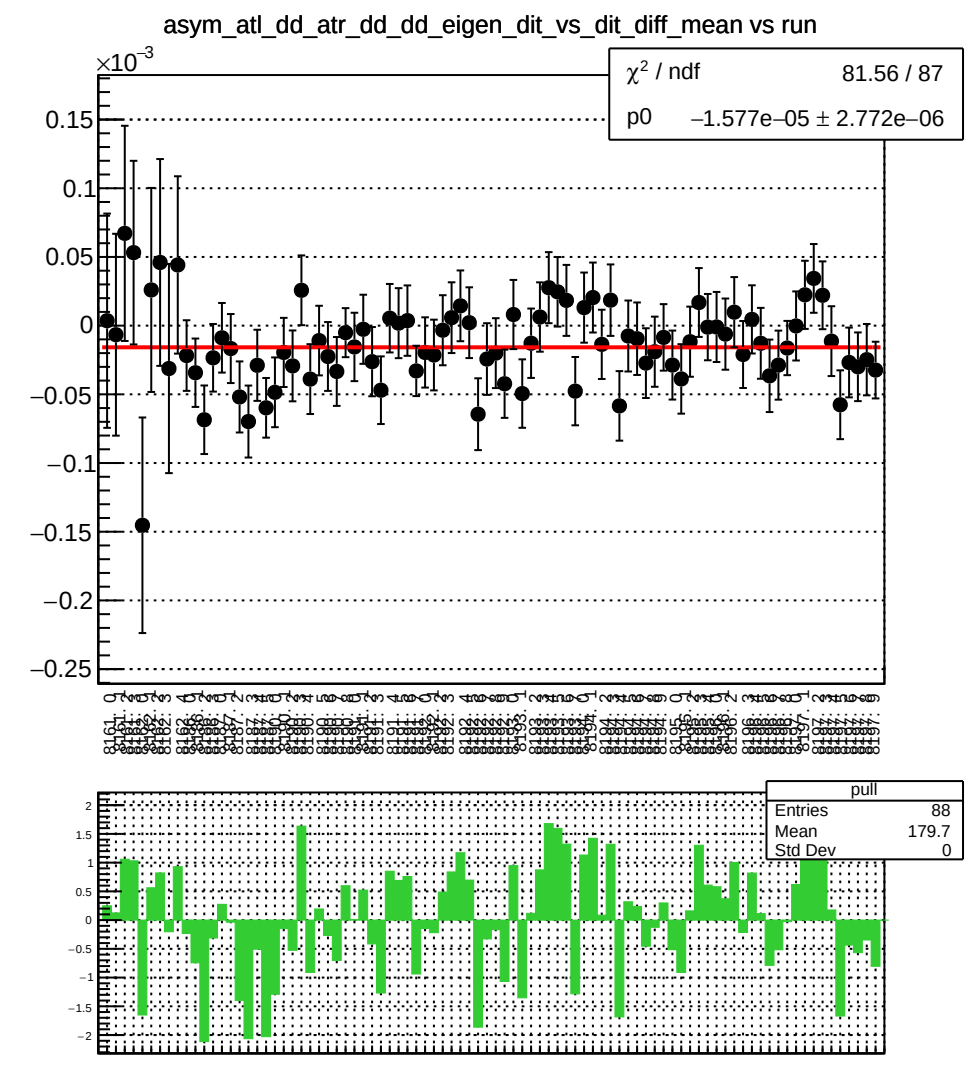

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 −0.007596 ± 0.03543
pull
Entries 88
Mean 44.62
Std Dev 29

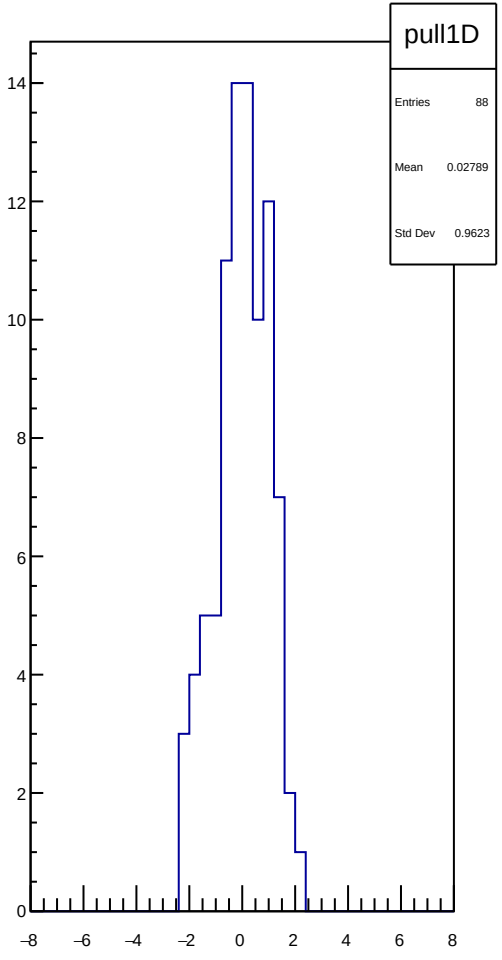

pull1D
Entries 88
Mean −0.06578
Std Dev 1.073

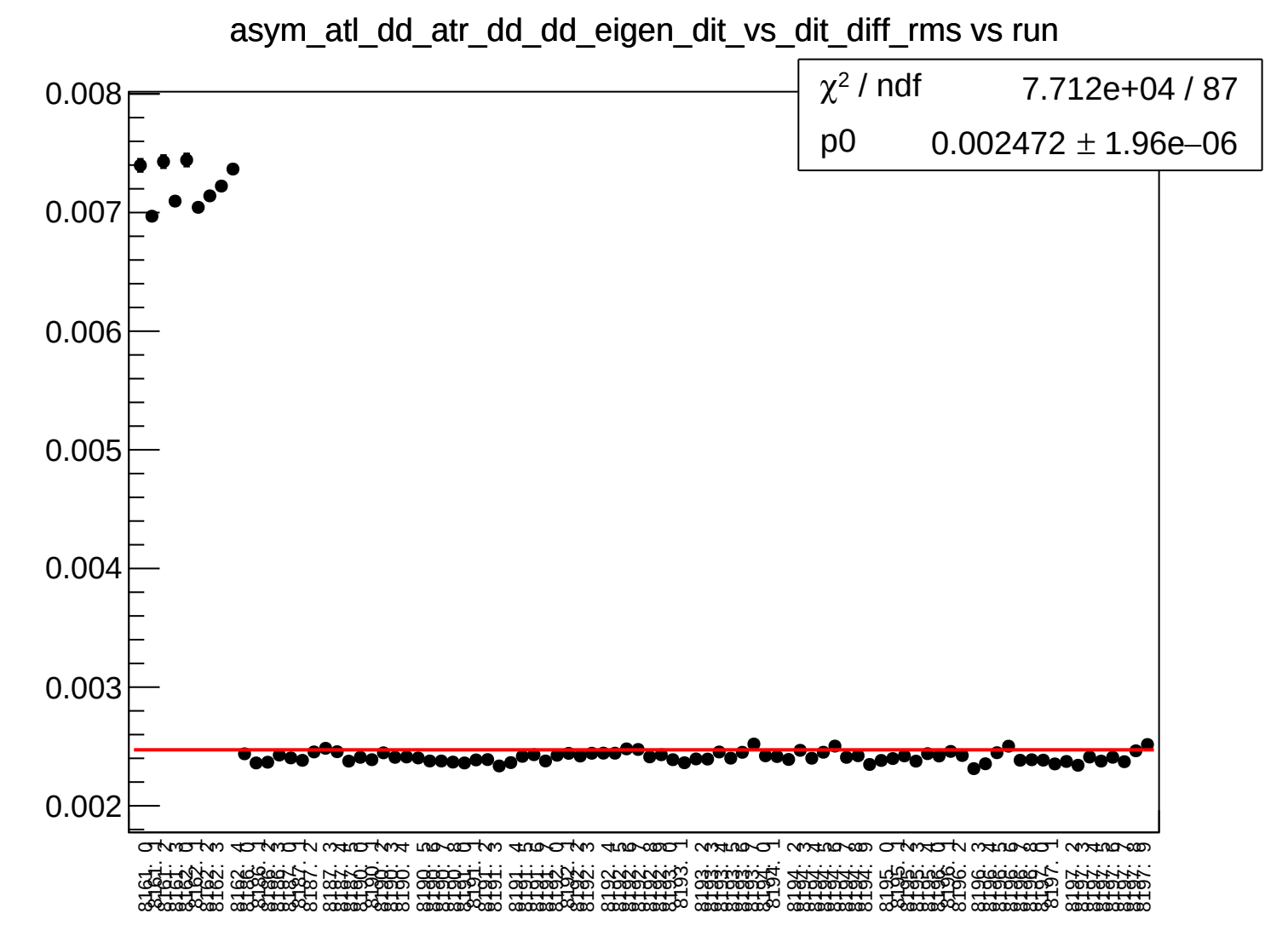

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 87
p0 30.12 ± 0.02505
70
60
50
40
30
20
10

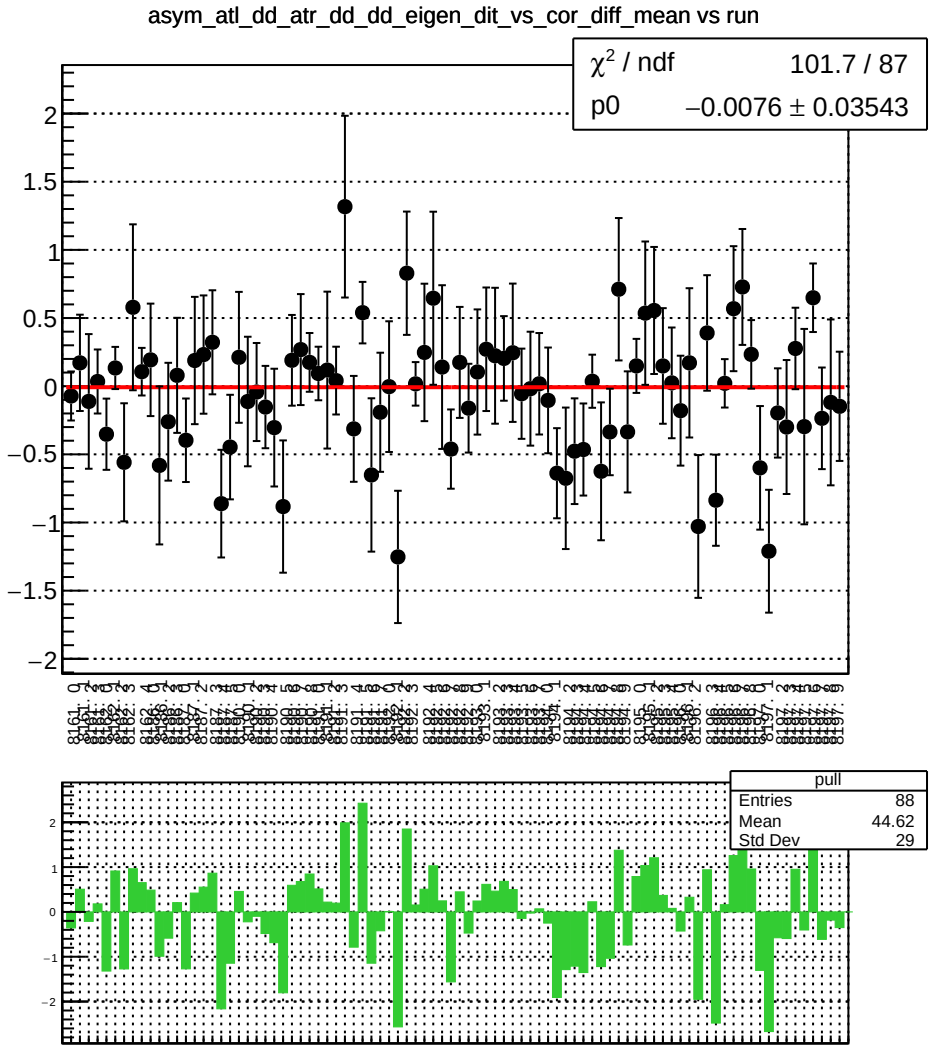

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 −0.007596 ± 0.03543
pull
Entries 88
Mean 44.62
Std Dev 29
pull1D
Entries 88
Mean −0.06578
Std Dev 1.073

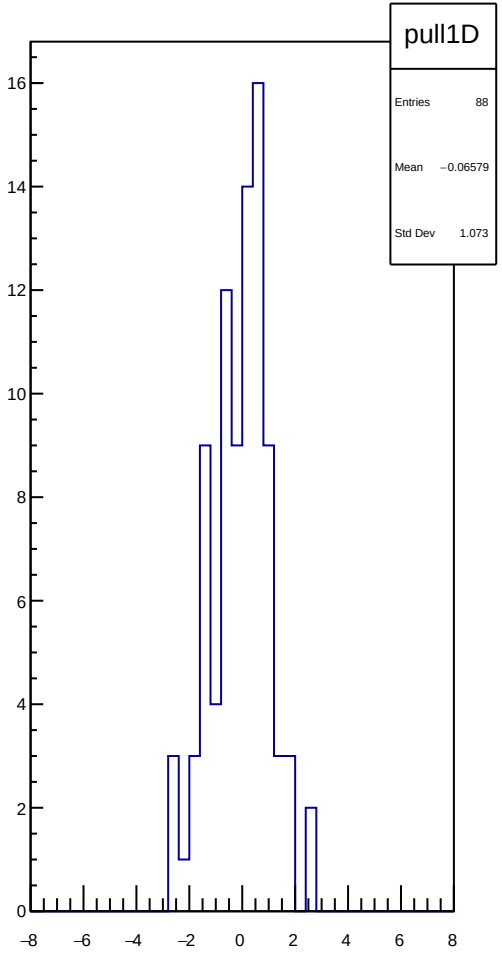

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 87
p0 30.12 ± 0.02505
70
60
50
40
30
20
10

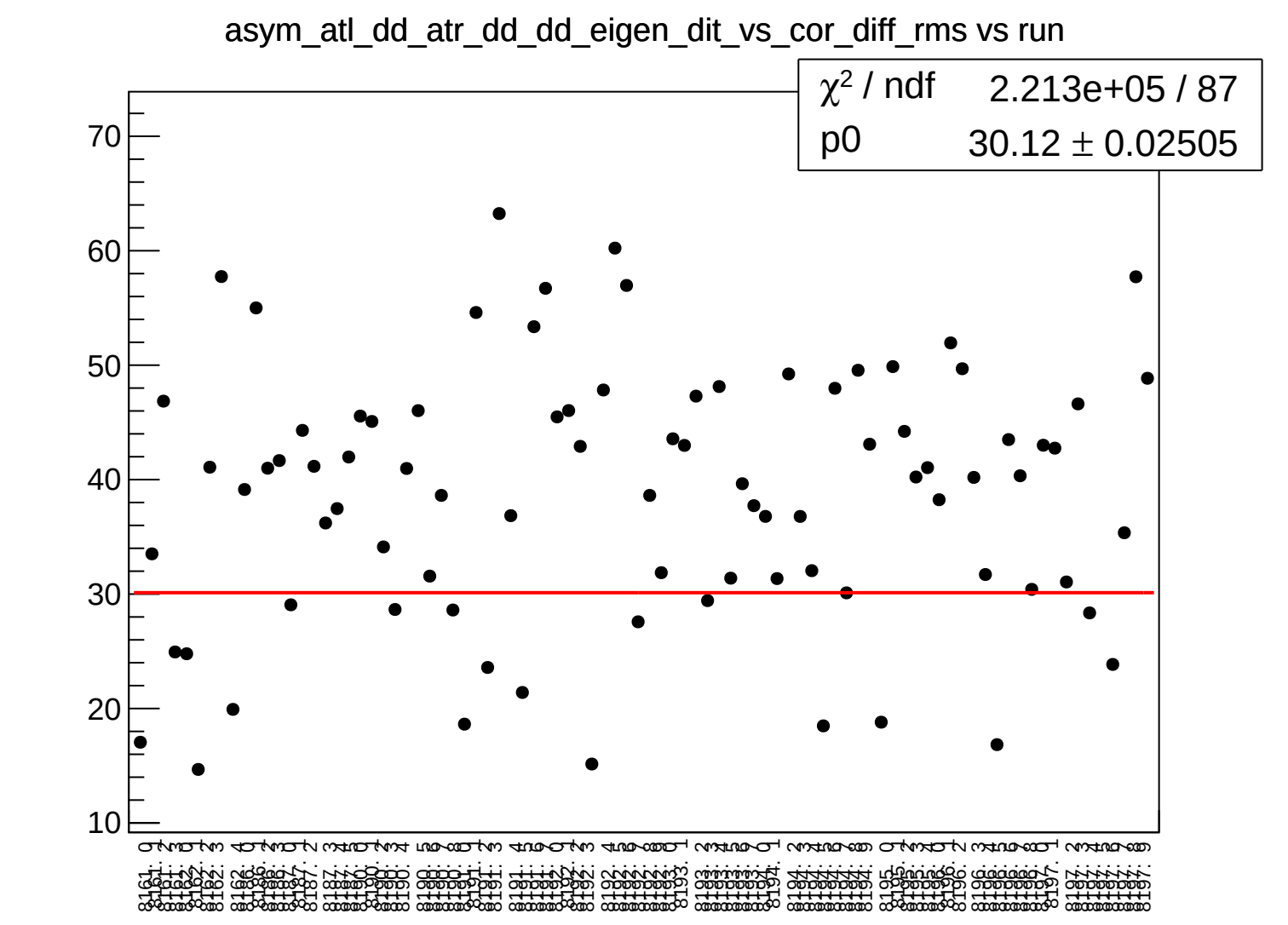

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.56 / 87
p0 −1.577e−05 ± 2.772e−06
pull
Entries 88
Mean 179.7
Std Dev 0

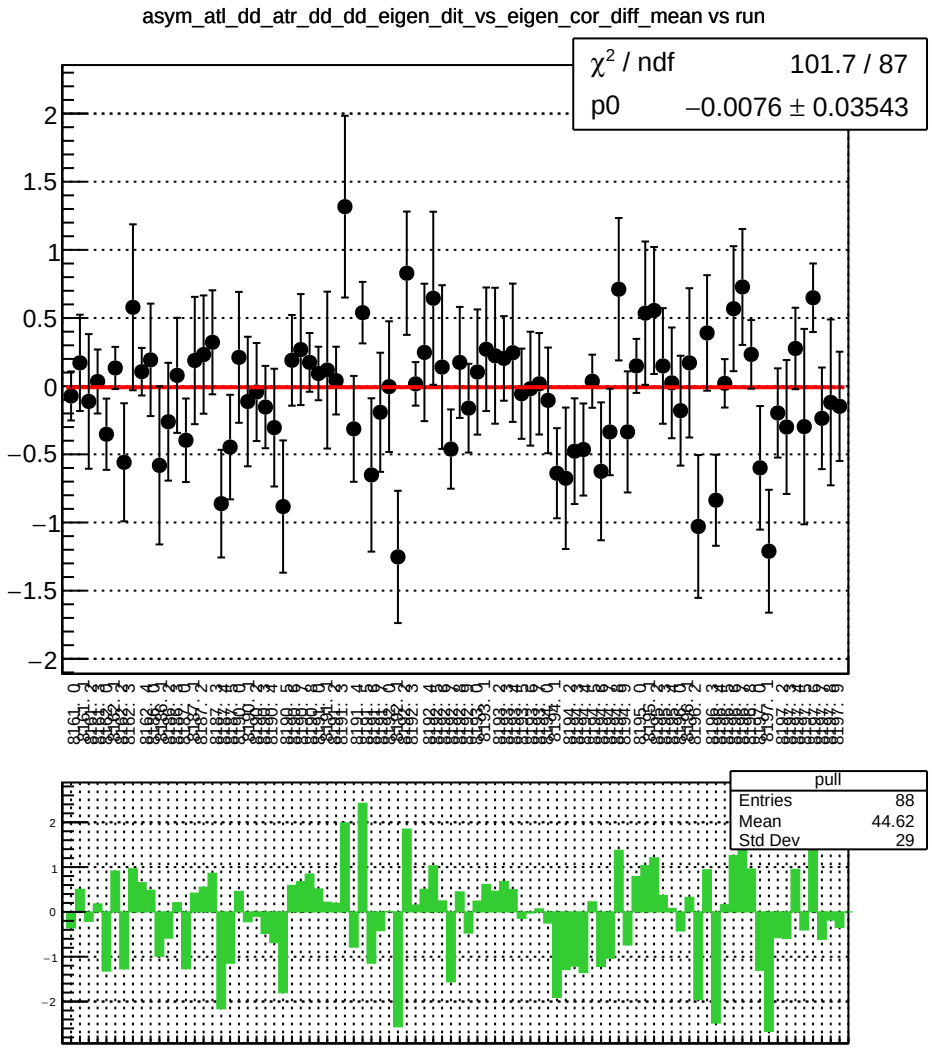

pull1D
Entries 88
Mean 0.02789
Std Dev 0.9623

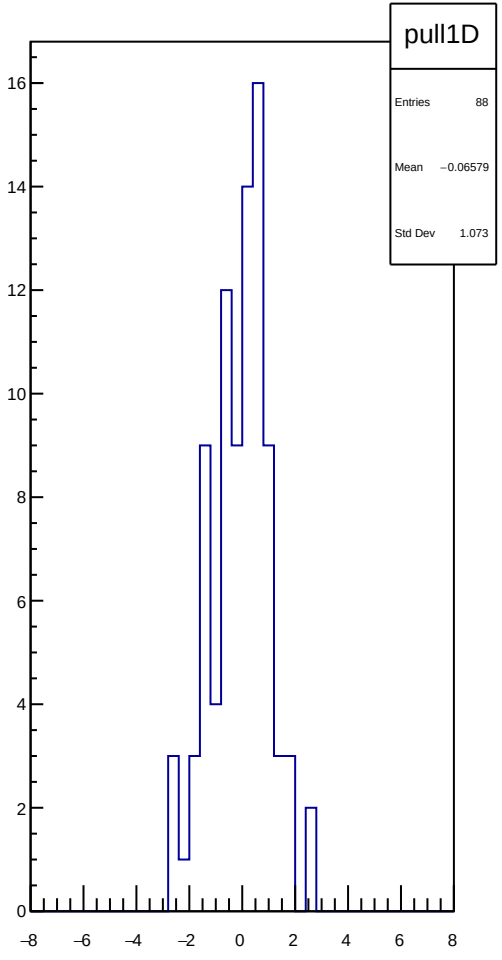

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.712e+04 / 87
p0 0.002472 ± 1.96e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

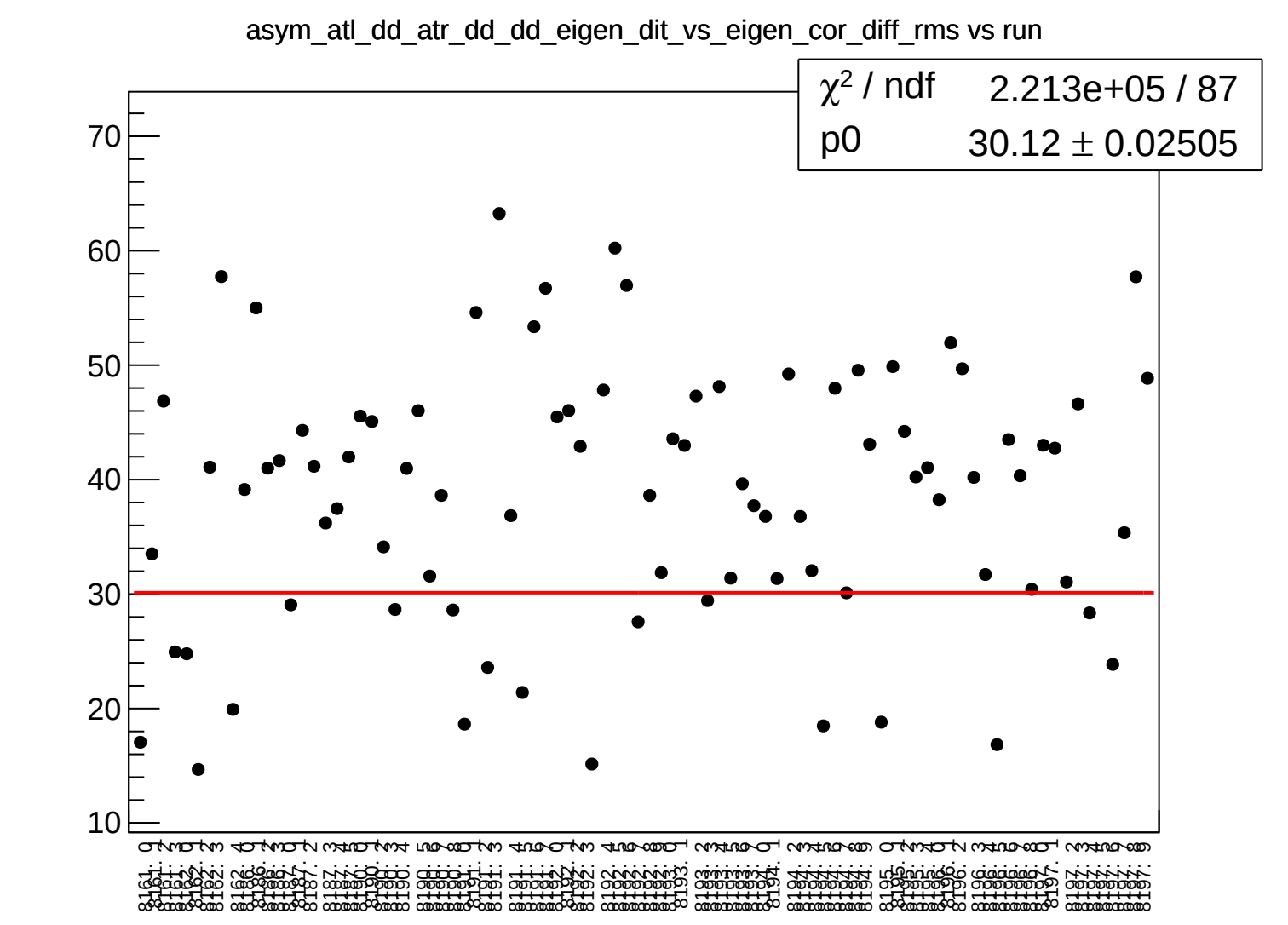

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 −0.0076 ± 0.03543
pull
Entries 88
Mean 44.62
Std Dev 29

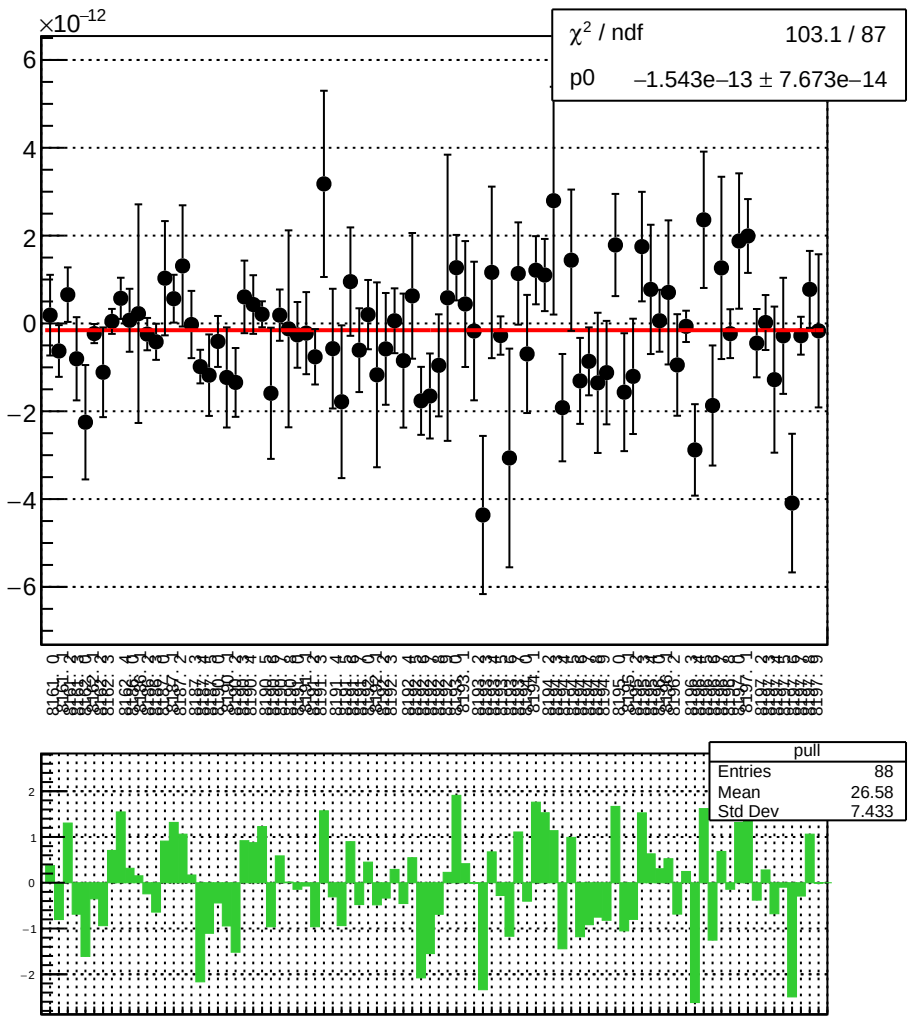

pull1D
Entries 88
Mean −0.06579
Std Dev 1.073

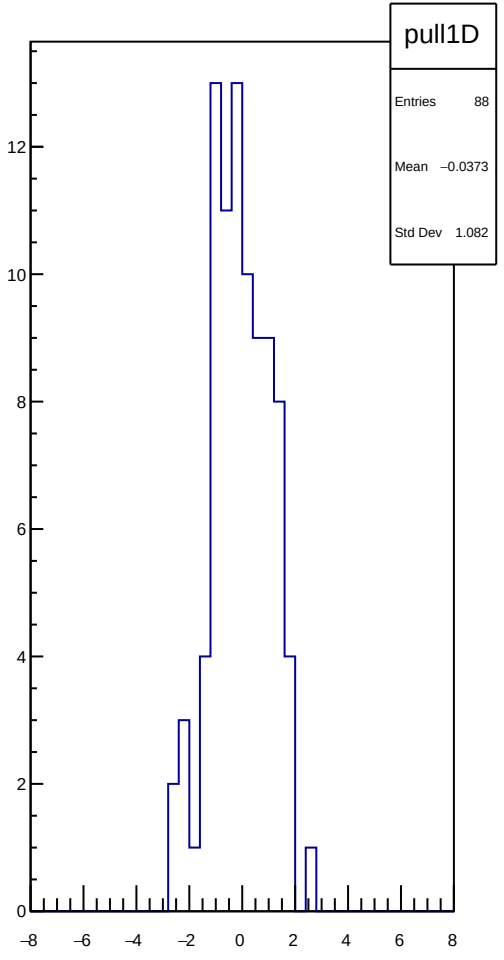

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 87
p0 30.12 ± 0.02505
70
60
50
40
30
20
10

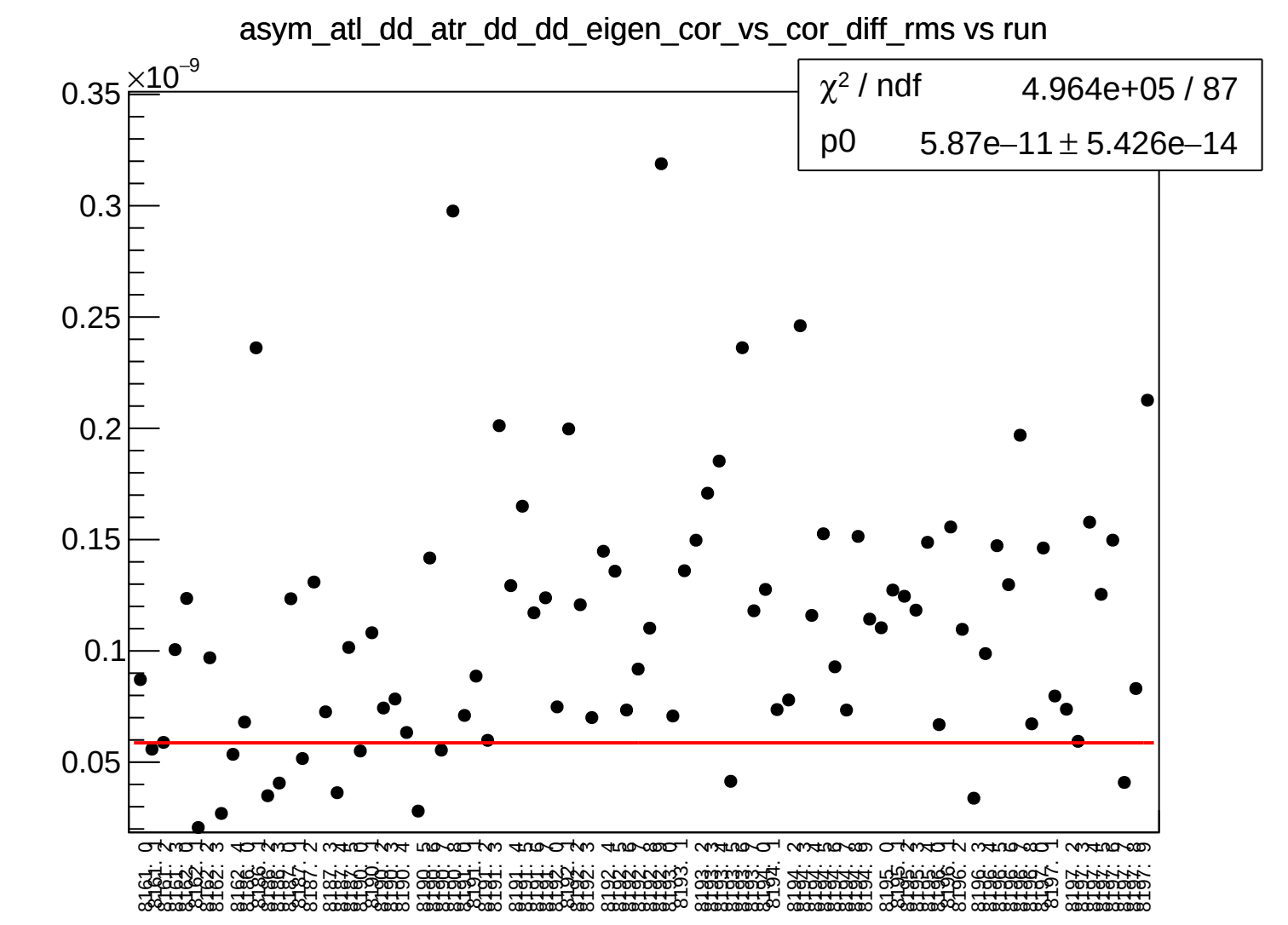

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 −0.0076 ± 0.03543
pull
Entries 88
Mean 44.62
Std Dev 29

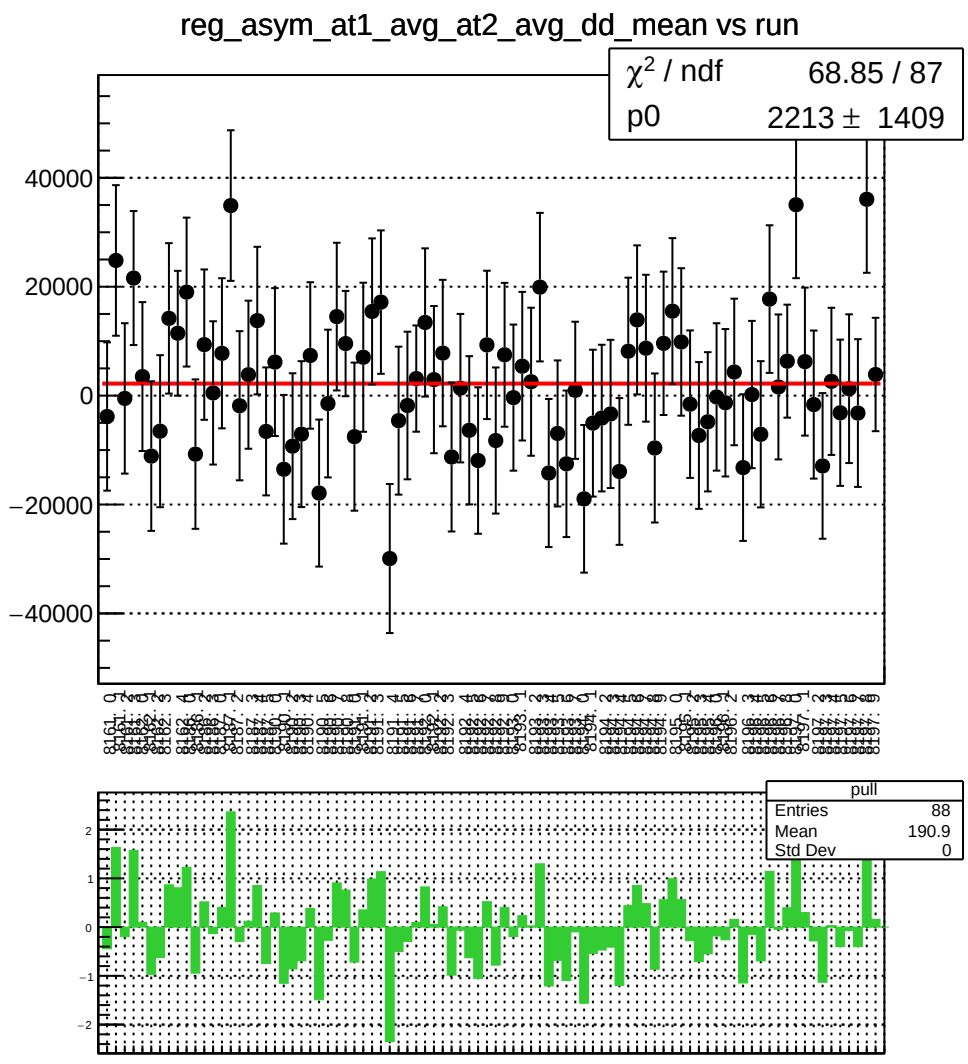

pull1D
Entries 88
Mean −0.06579
Std Dev 1.073

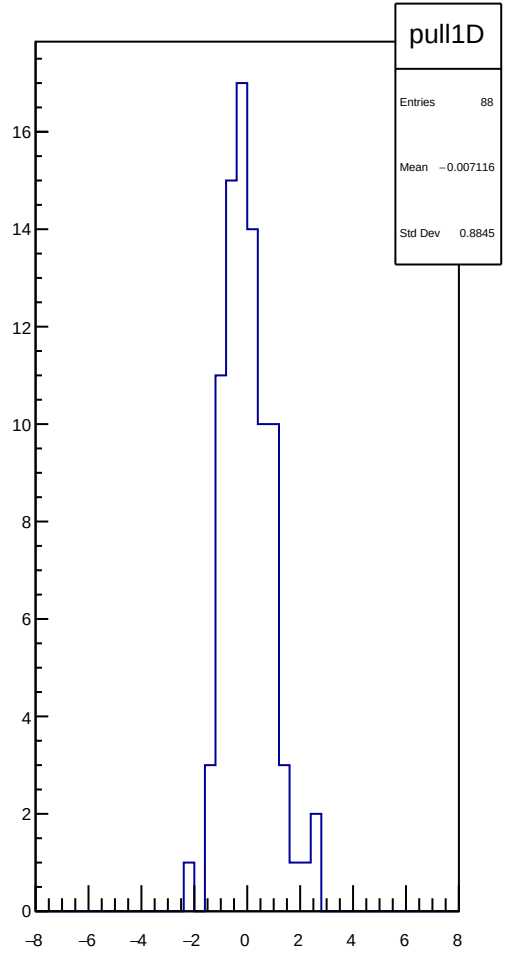

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 87
p0 30.12 ± 0.02505
70
60
50
40
30
20
10

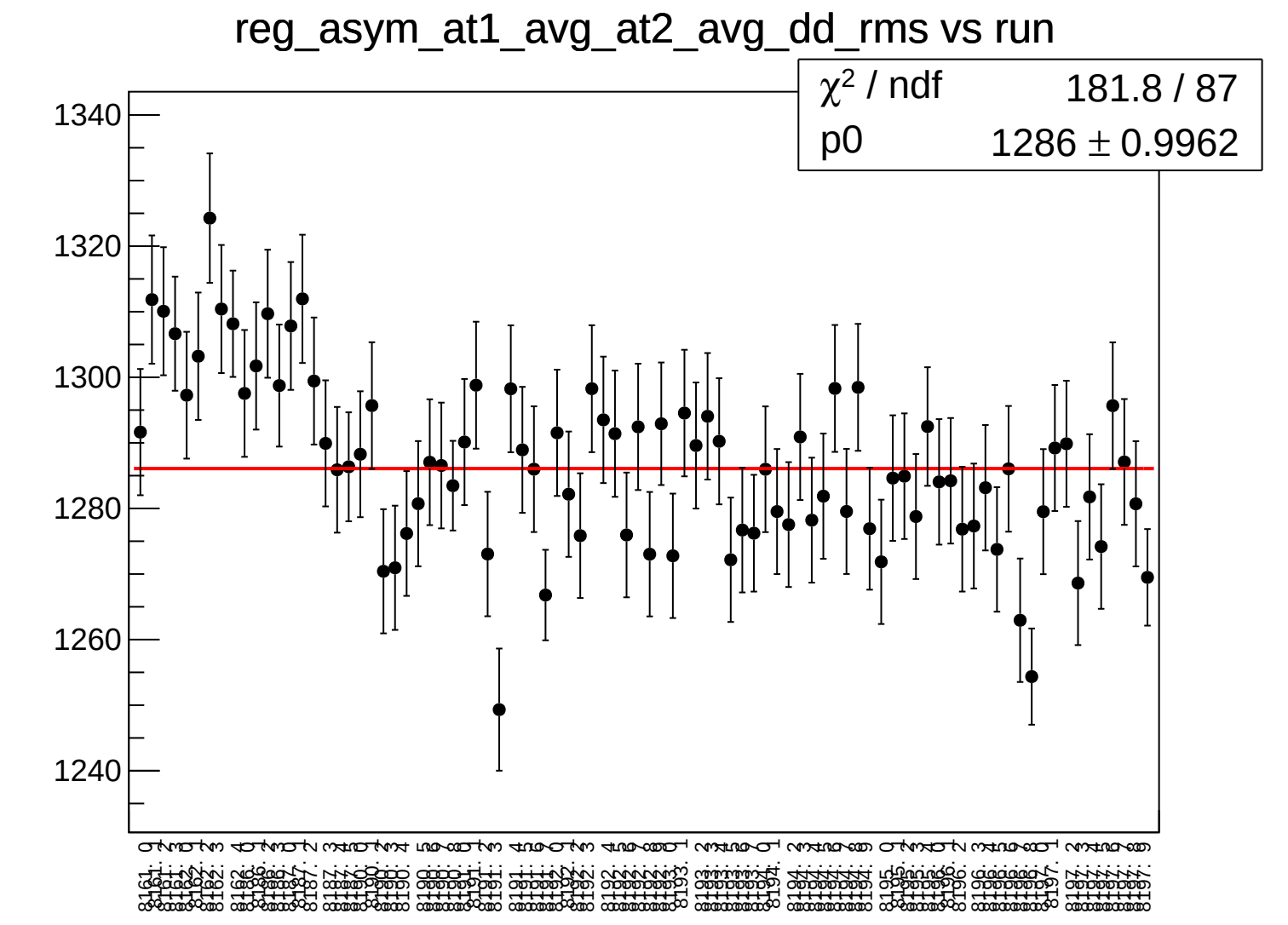

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.1 / 87
p0 −1.543e−13 ± 7.673e−14
pull
Entries 88
Mean 26.58
Std Dev 7.433

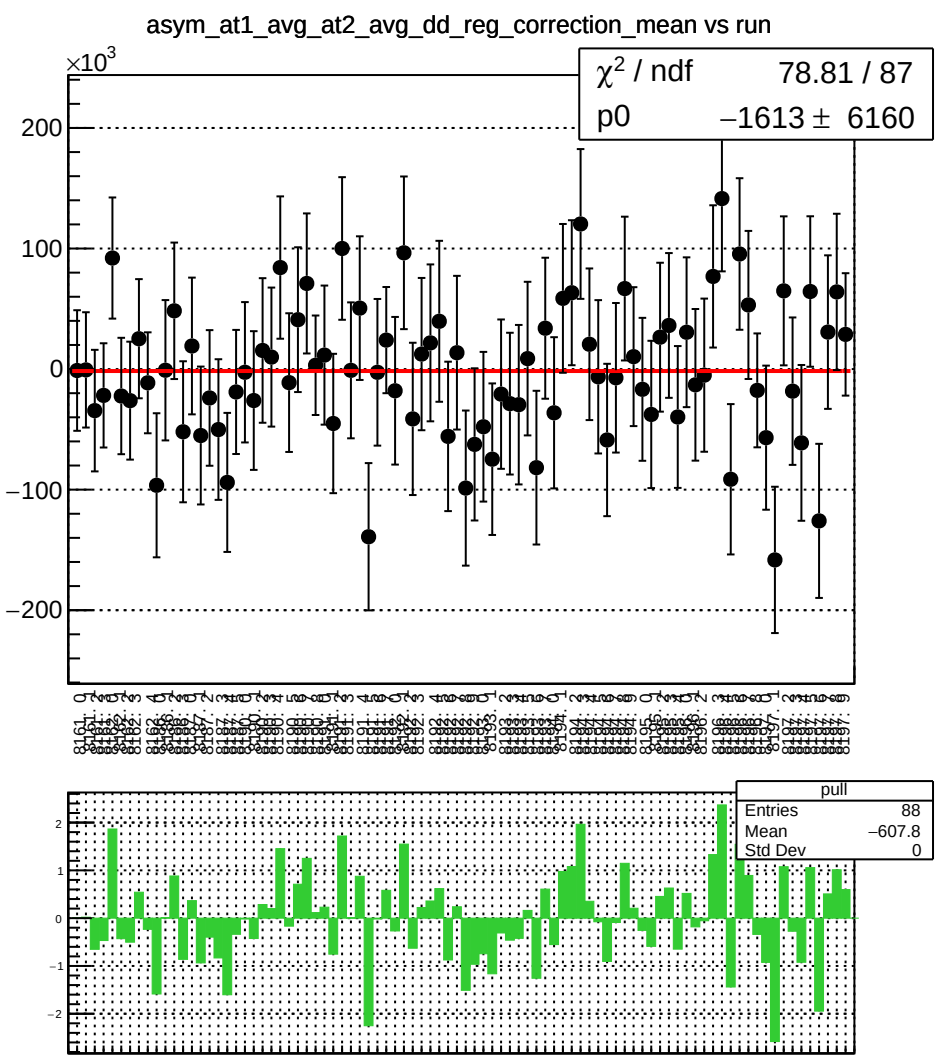

pull1D
Entries 88
Mean −0.0373
Std Dev 1.082

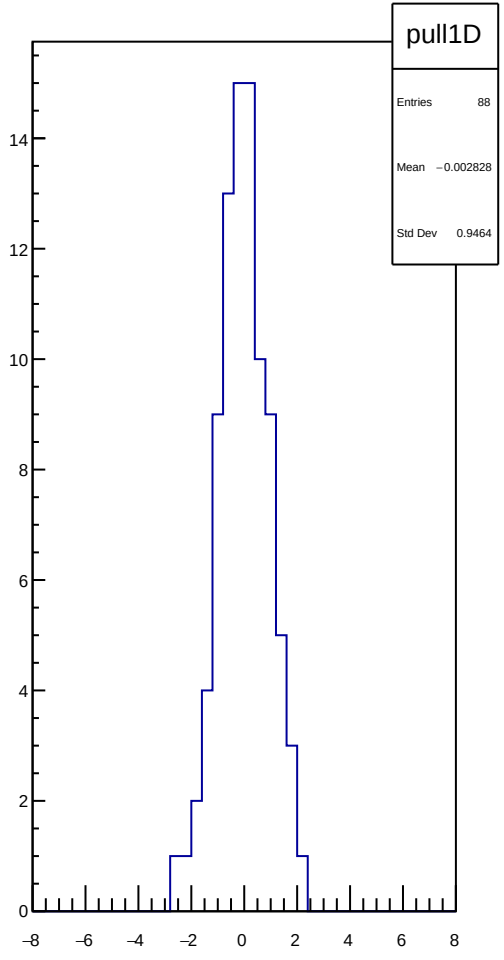

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.964e+05 / 87
p0 5.87e−11 ± 5.426e−14

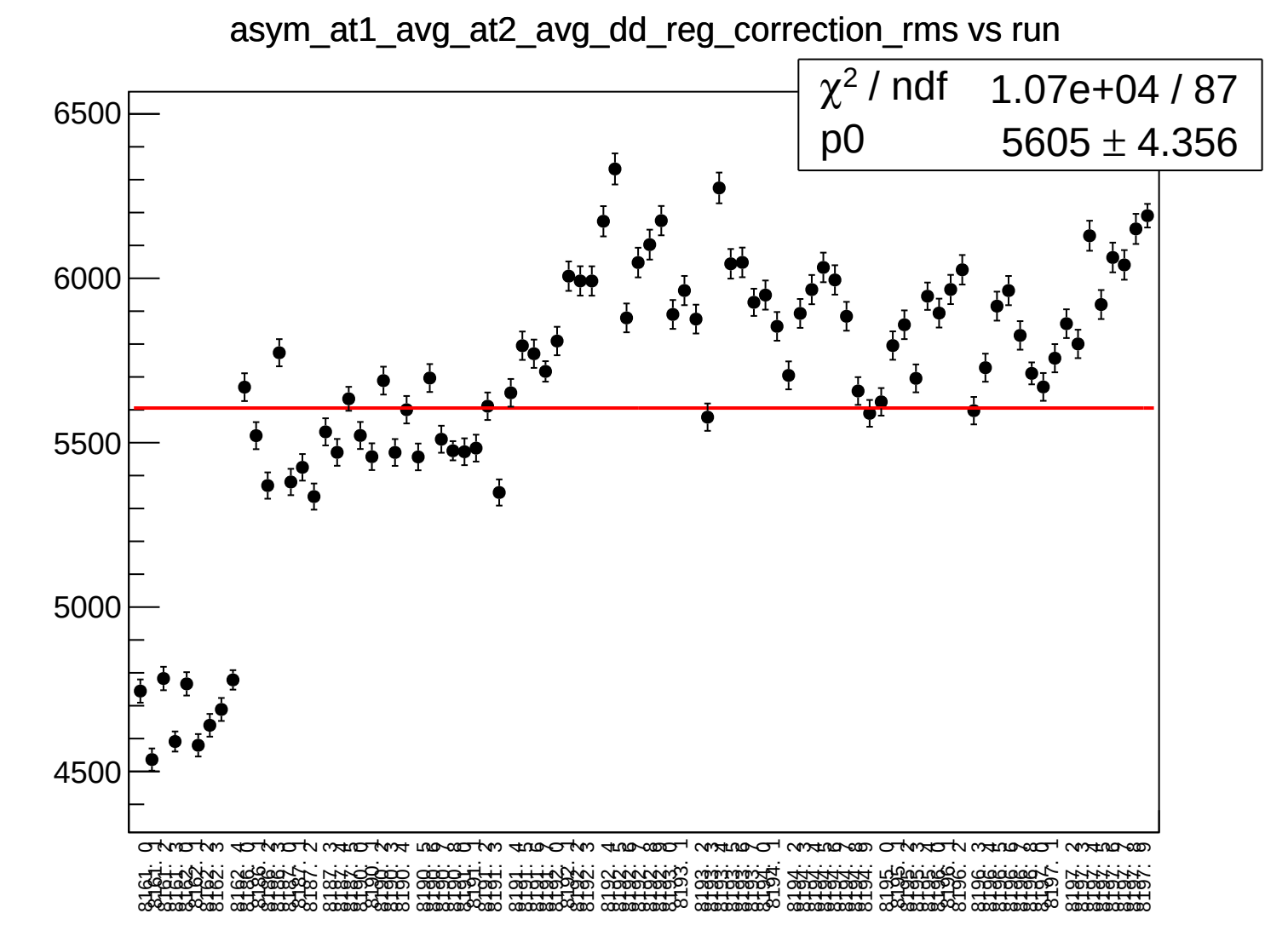

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 68.85 / 87
p0 2213 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 190.9
Std Dev 0
2
1
0
−1
−2

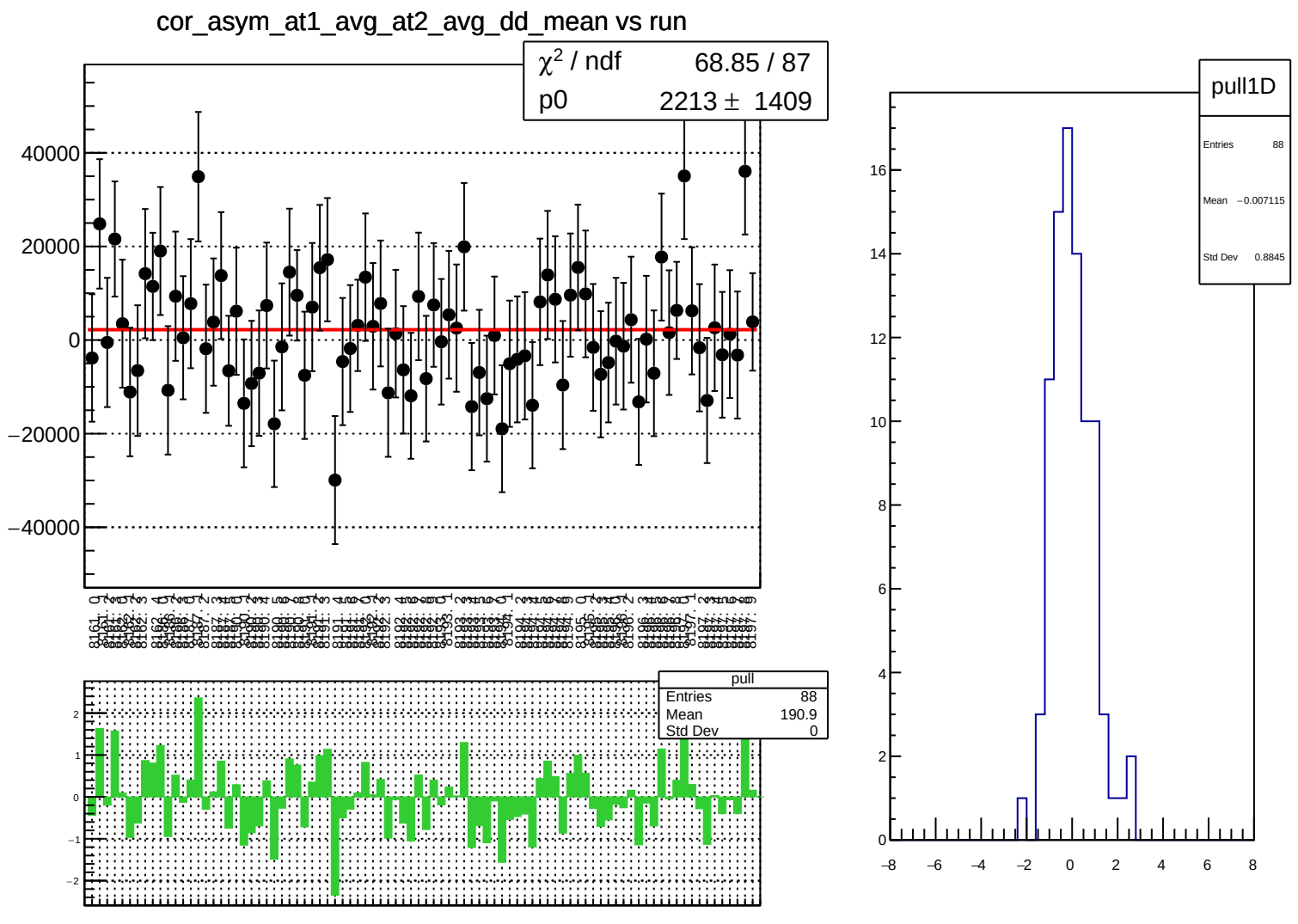

pull1D
Entries 88
Mean −0.007116
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

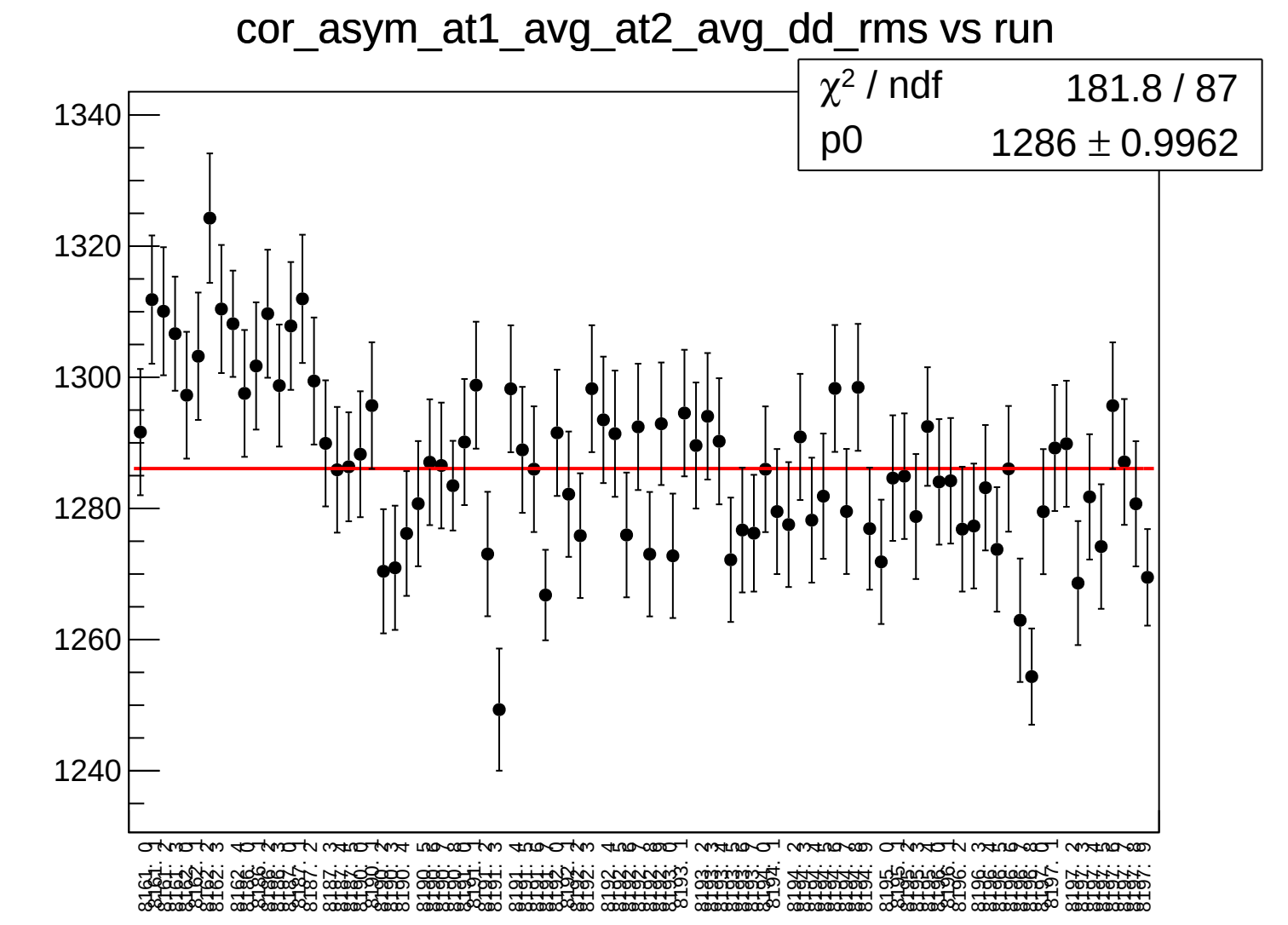

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 181.8 / 87
p0 1286 ± 0.9962
1340
1320
1300
1280
1260
1240

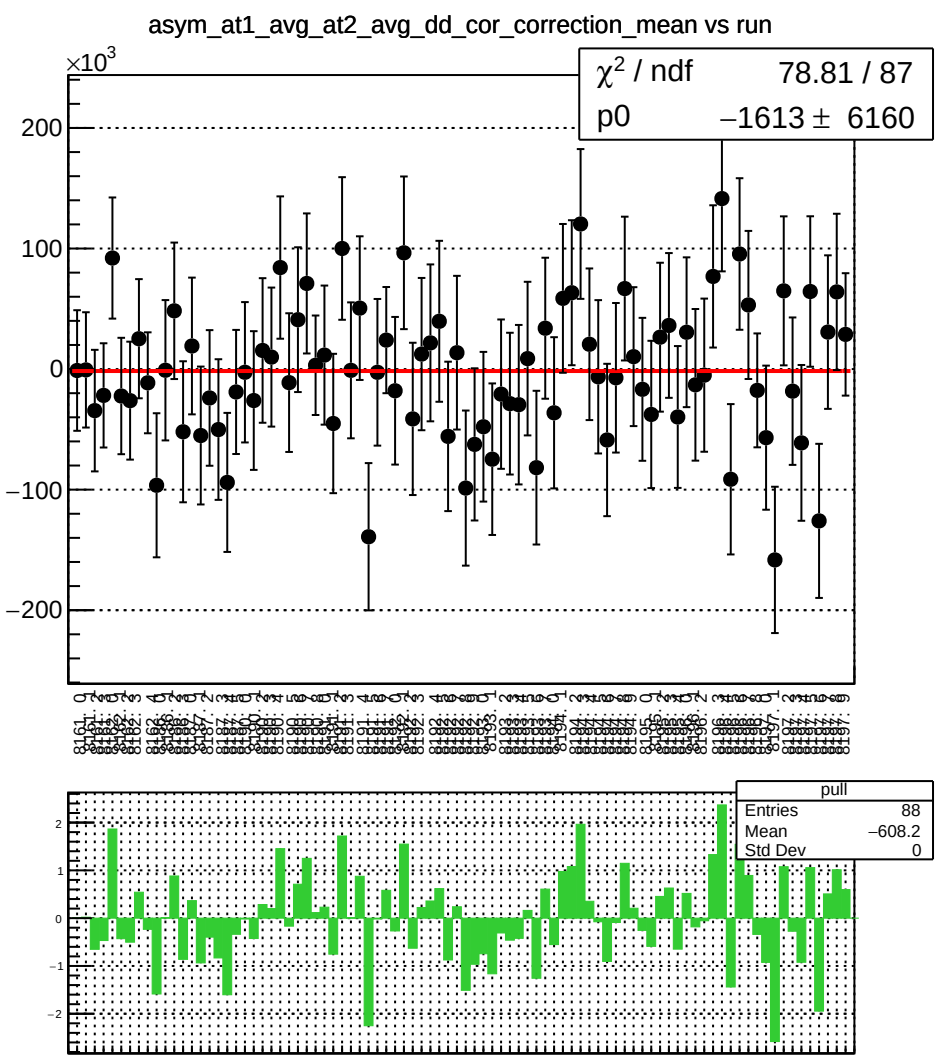

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 78.81 / 87
p0 −1613 ± 6160
200
100
0
−100
−200
pull
Entries 88
Mean −607.8
Std Dev 0
2
1
0
−1
−2

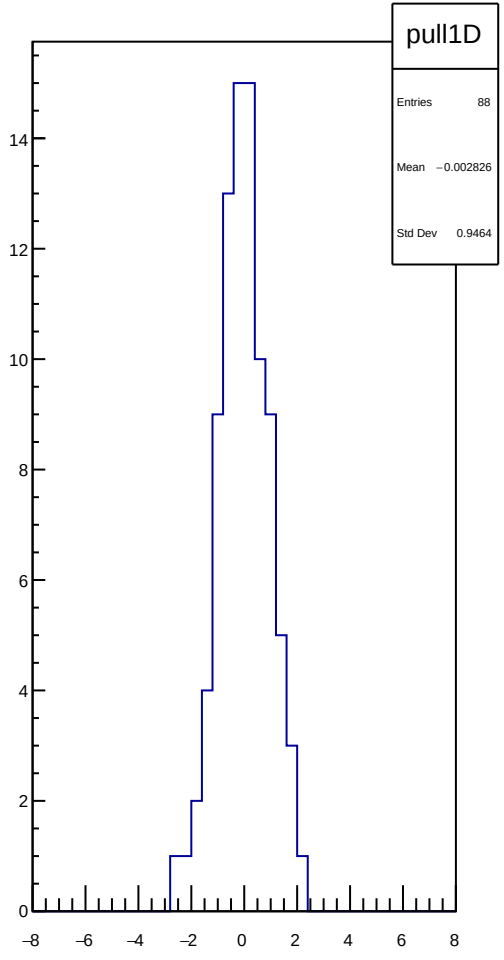

pull1D
Entries 88
Mean −0.002828
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

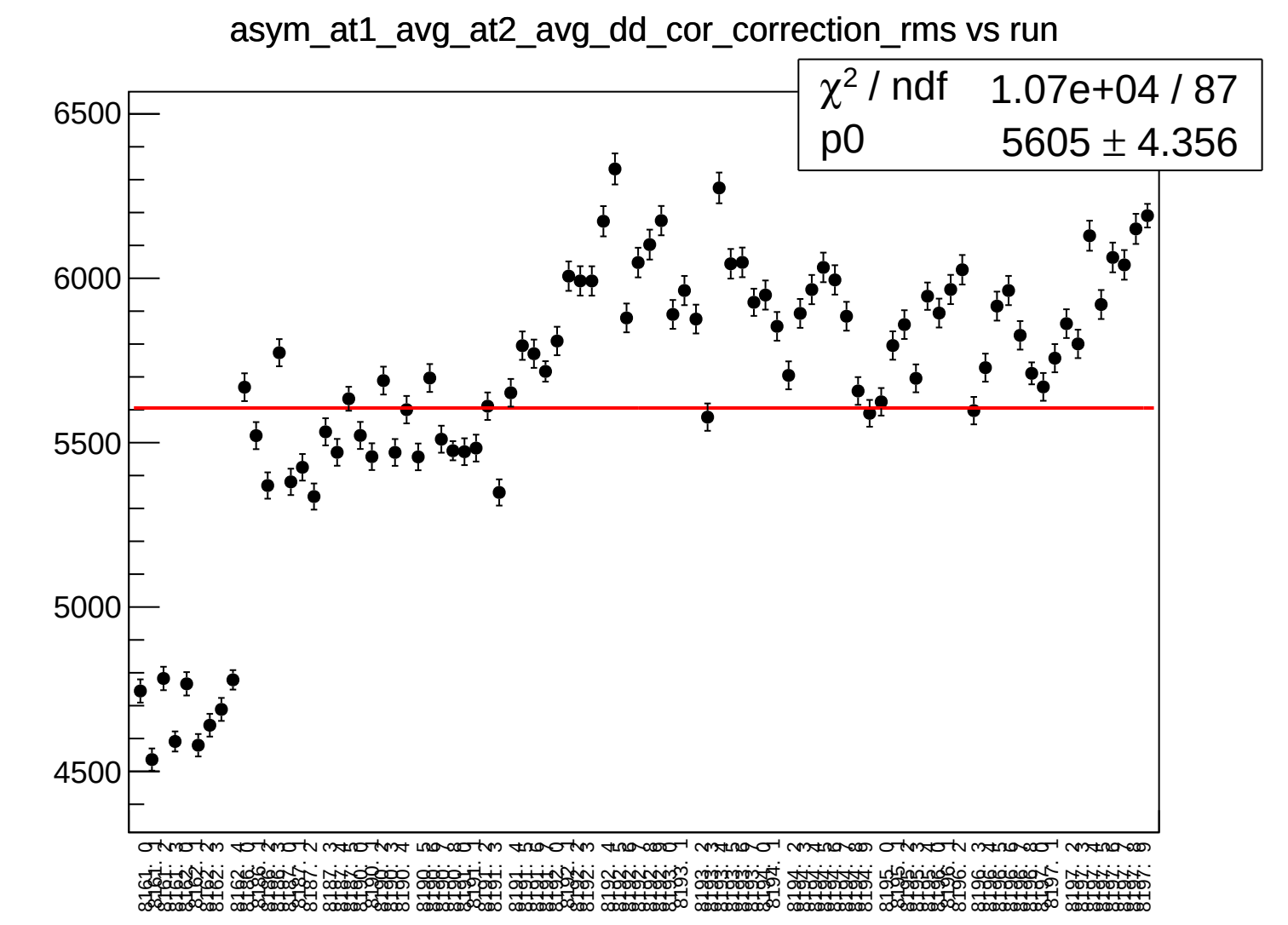

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.07e+04 / 87
p0 5605 ± 4.356
6500
6000
5500
5000
4500

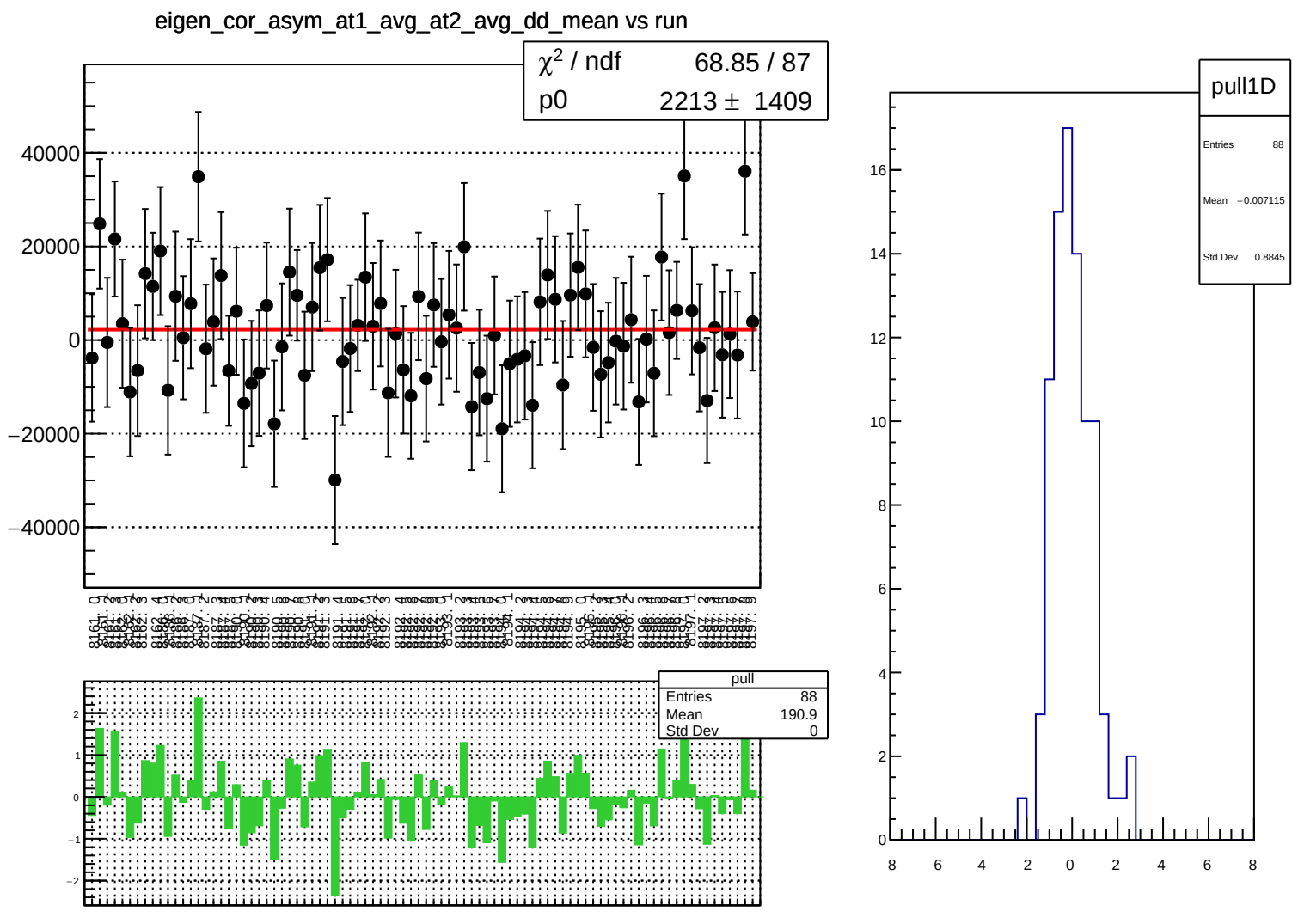

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 68.85 / 87
p0 2213 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 190.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007115
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

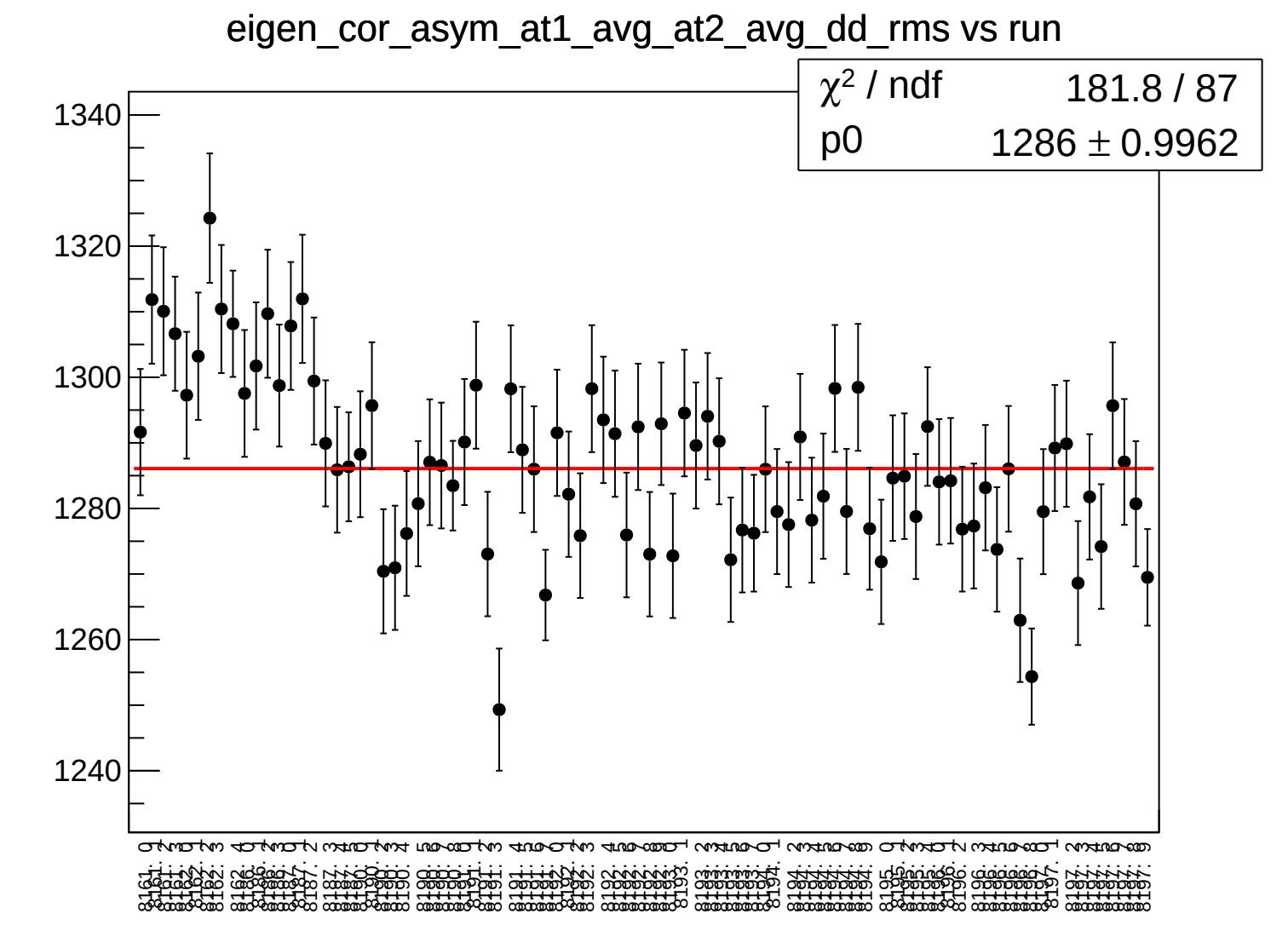

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 181.8 / 87
p0 1286 ± 0.9962
1340
1320
1300
1280
1260
1240

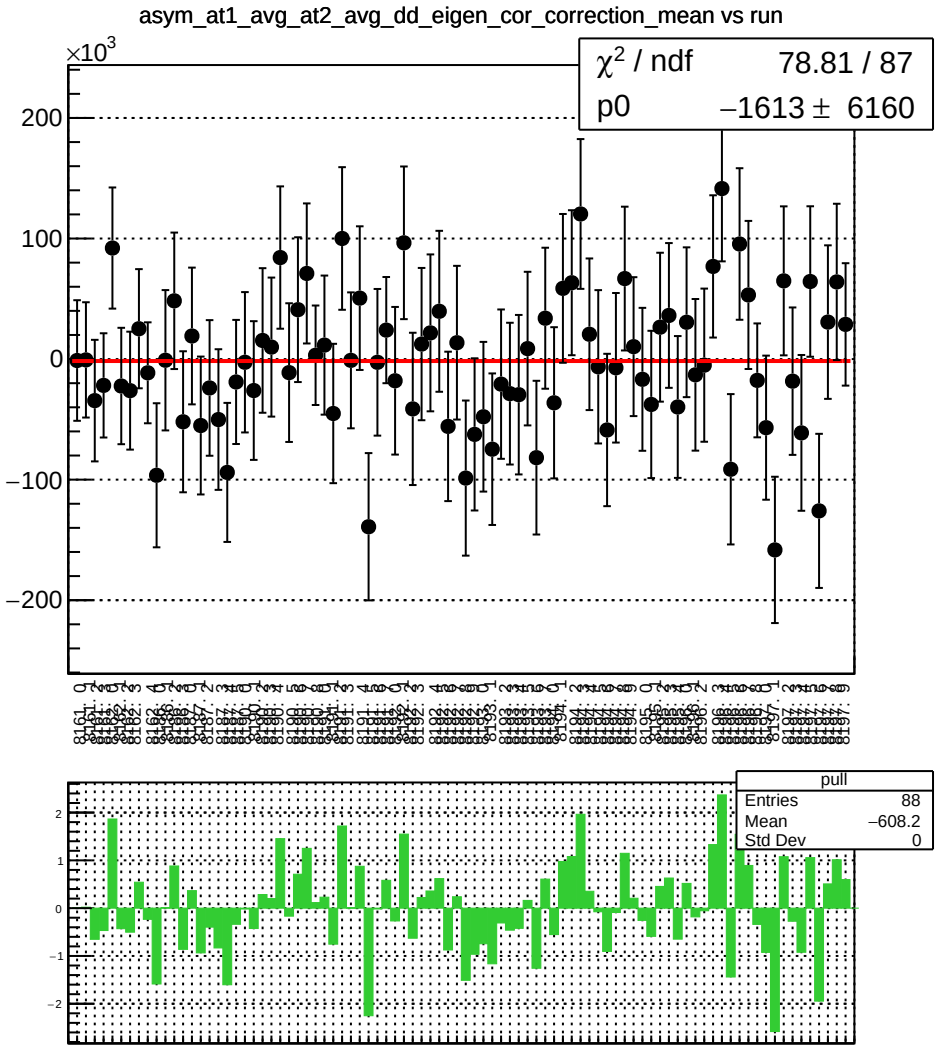

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.81 / 87
p0 −1613 ± 6160
200
100
0
−100
−200
pull
Entries 88
Mean −608.2
Std Dev 0
2
1
0
−1
−2

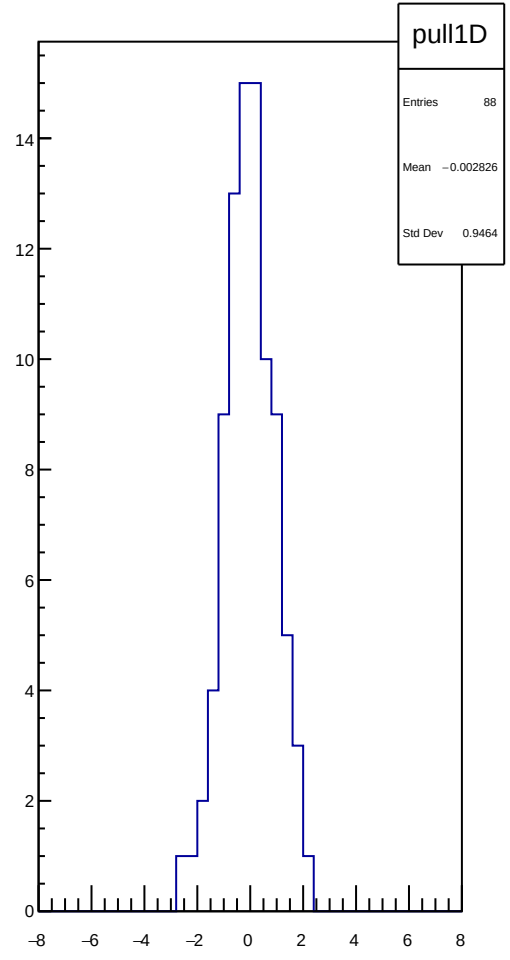

pull1D
Entries 88
Mean −0.002826
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

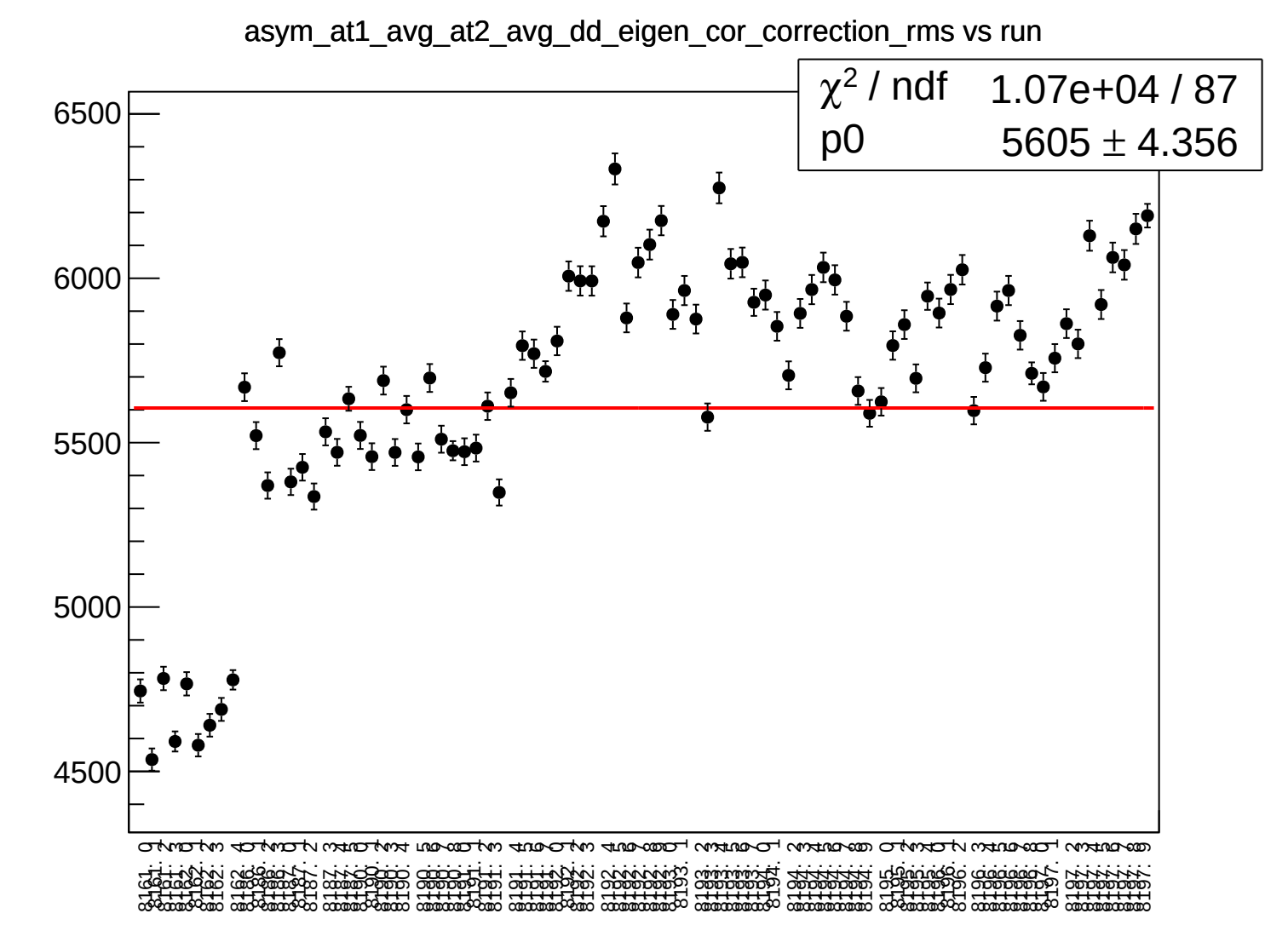

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 87
p0 5605 ± 4.356
6500
6000
5500
5000
4500

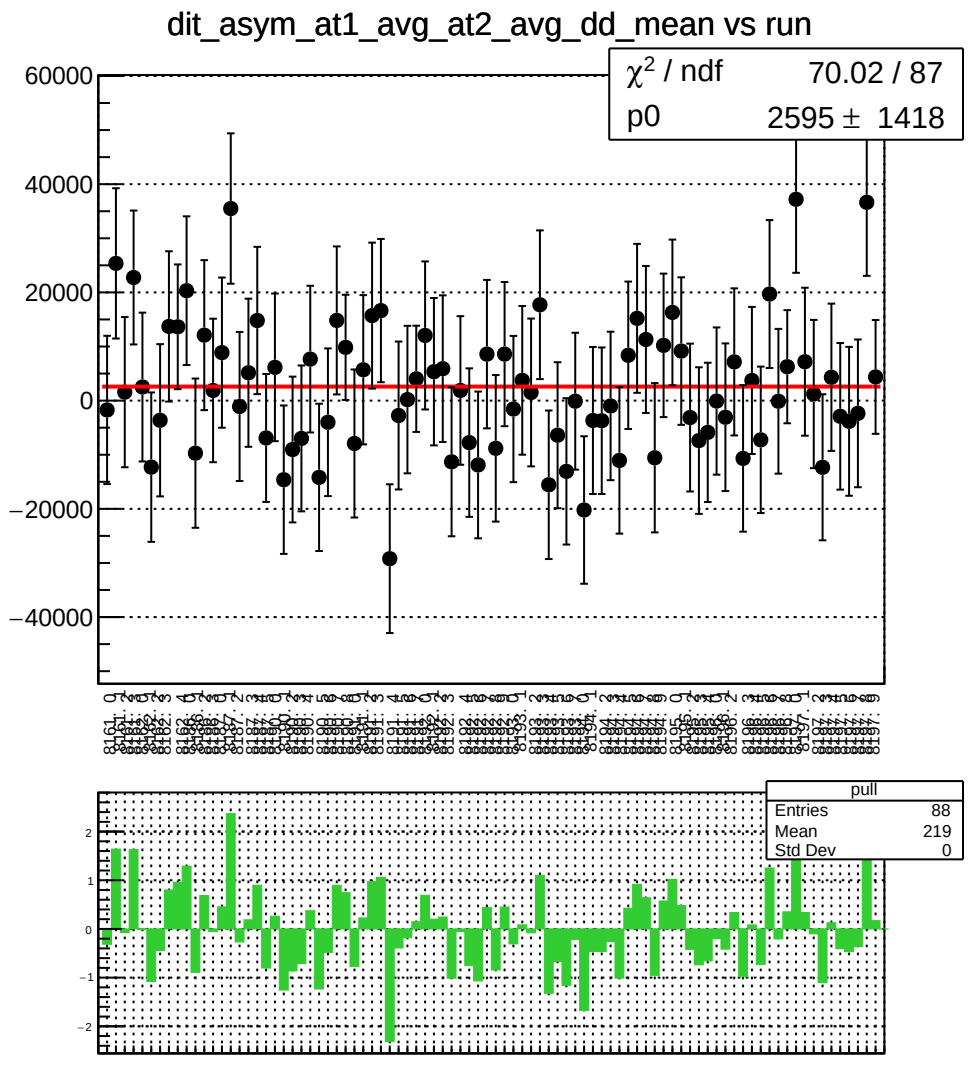

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 68.85 / 87
p0 2213 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 190.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007115
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

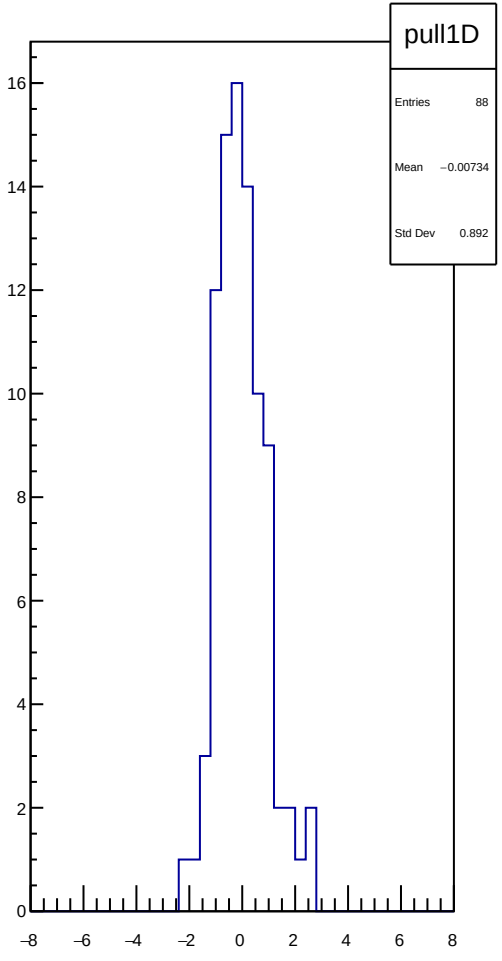

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 181.8 / 87
p0 1286 ± 0.9962
1340
1320
1300
1280
1260
1240

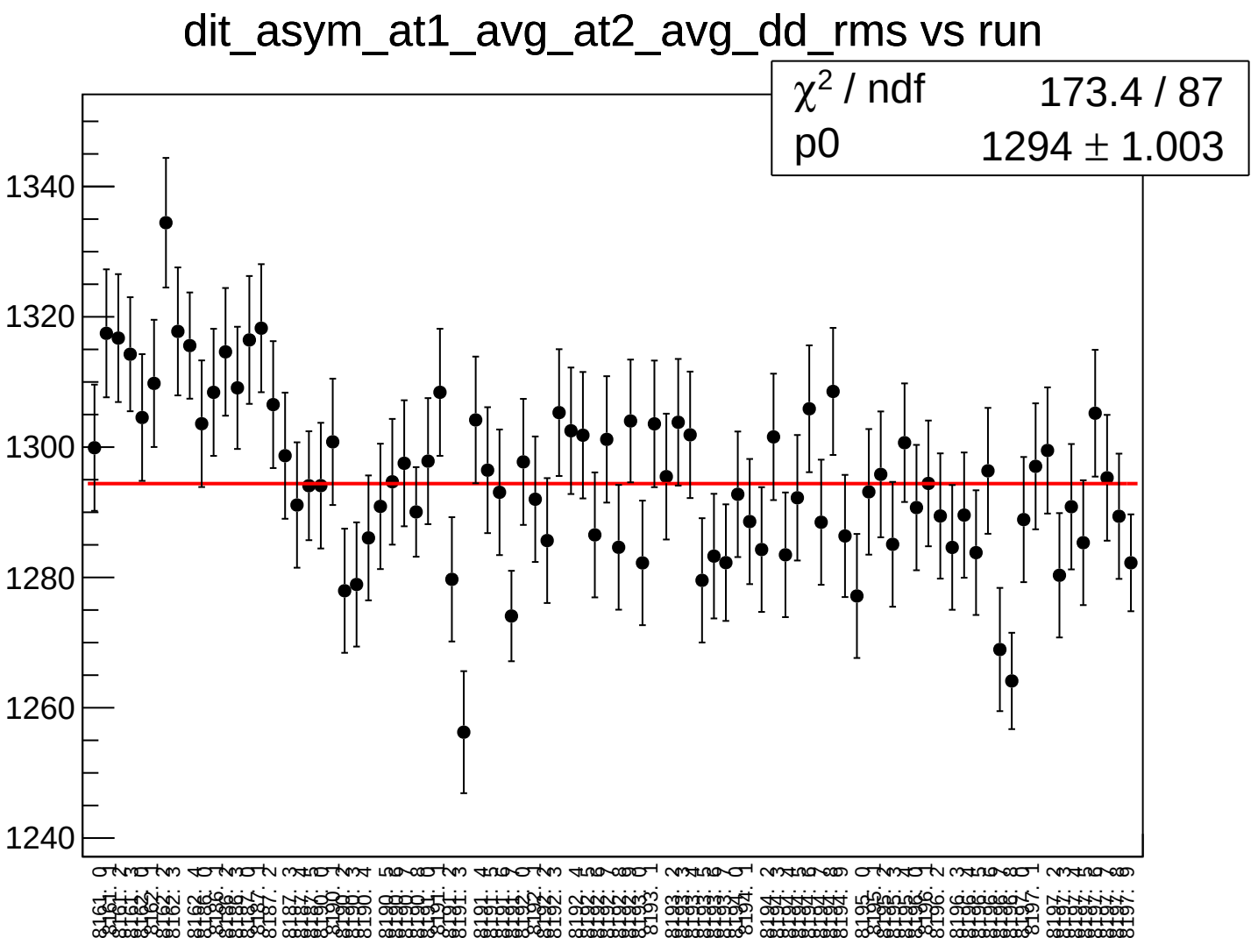

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.81 / 87
p0 −1613 ± 6160
200
100
0
−100
−200
pull
Entries 88
Mean −608.2
Std Dev 0
2
1
0
−1
−2

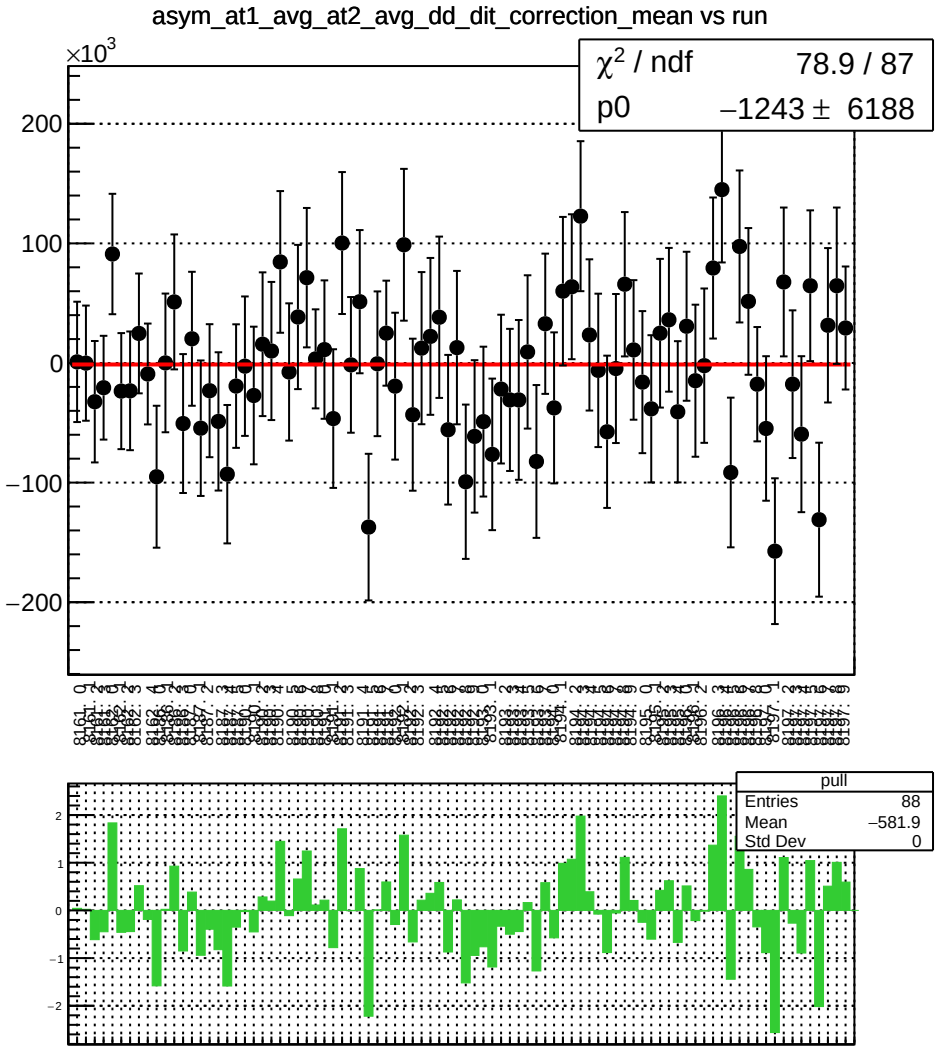

pull1D
Entries 88
Mean −0.002826
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

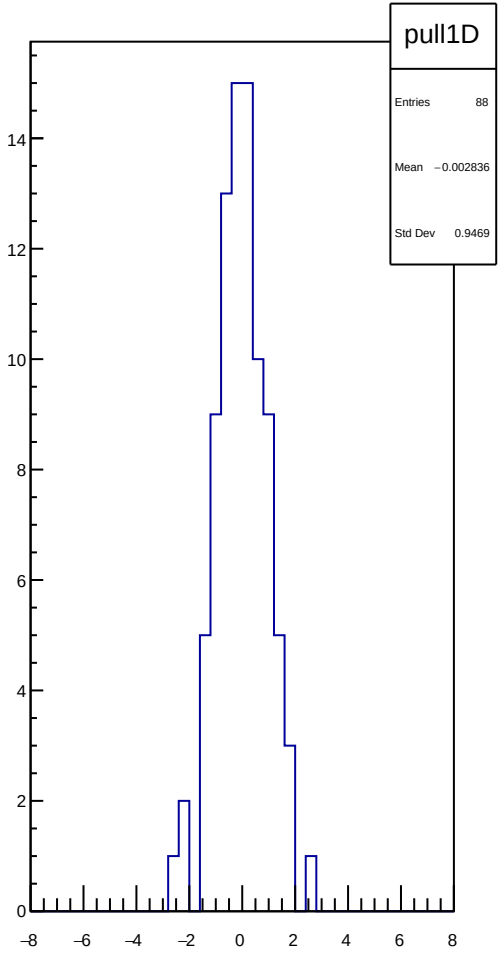

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 87
p0 5605 ± 4.356
6500
6000
5500
5000
4500

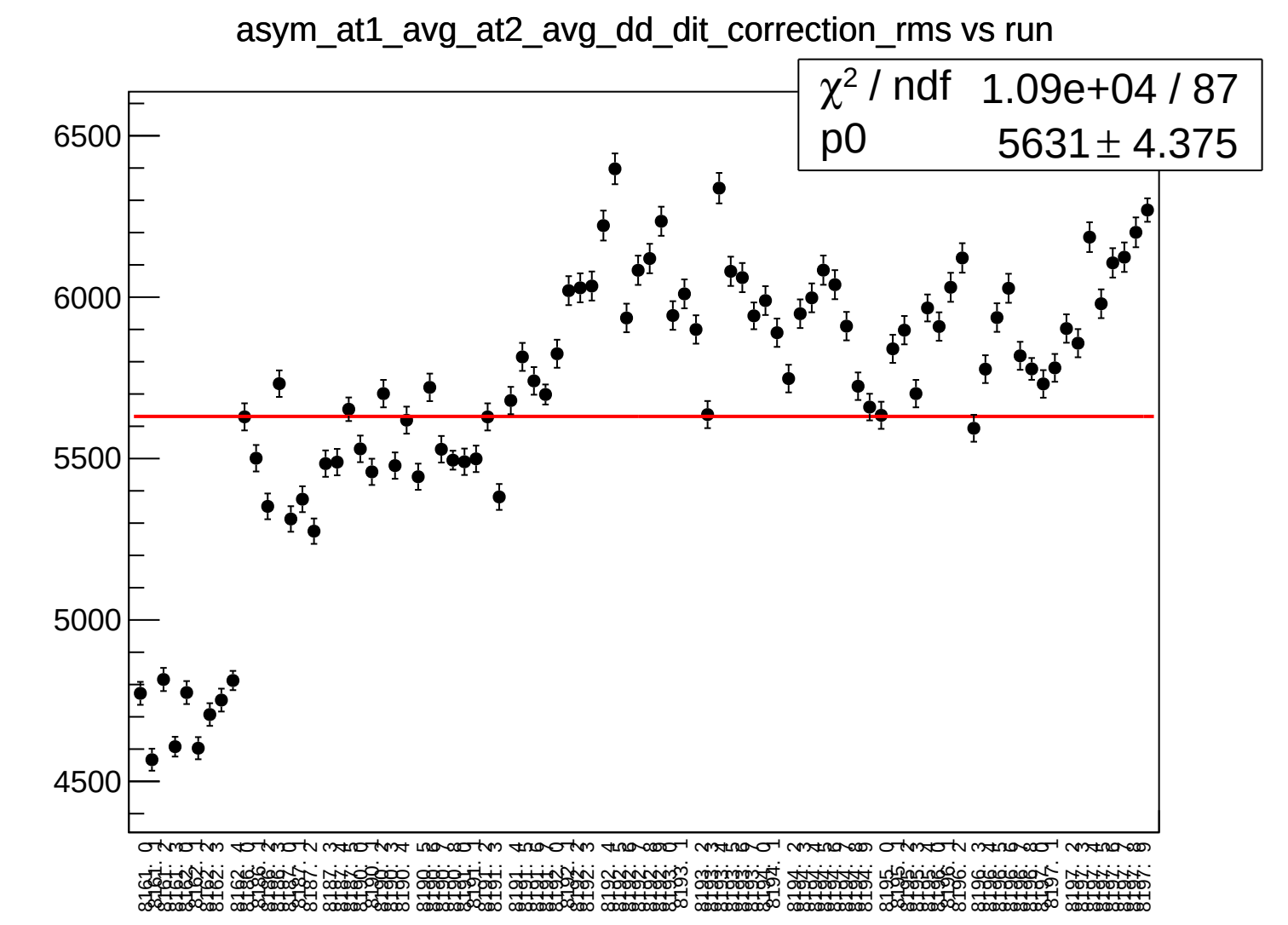

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 70.02 / 87
p0 2595 ± 1418
pull
Entries 88
Mean 219
Std Dev 0

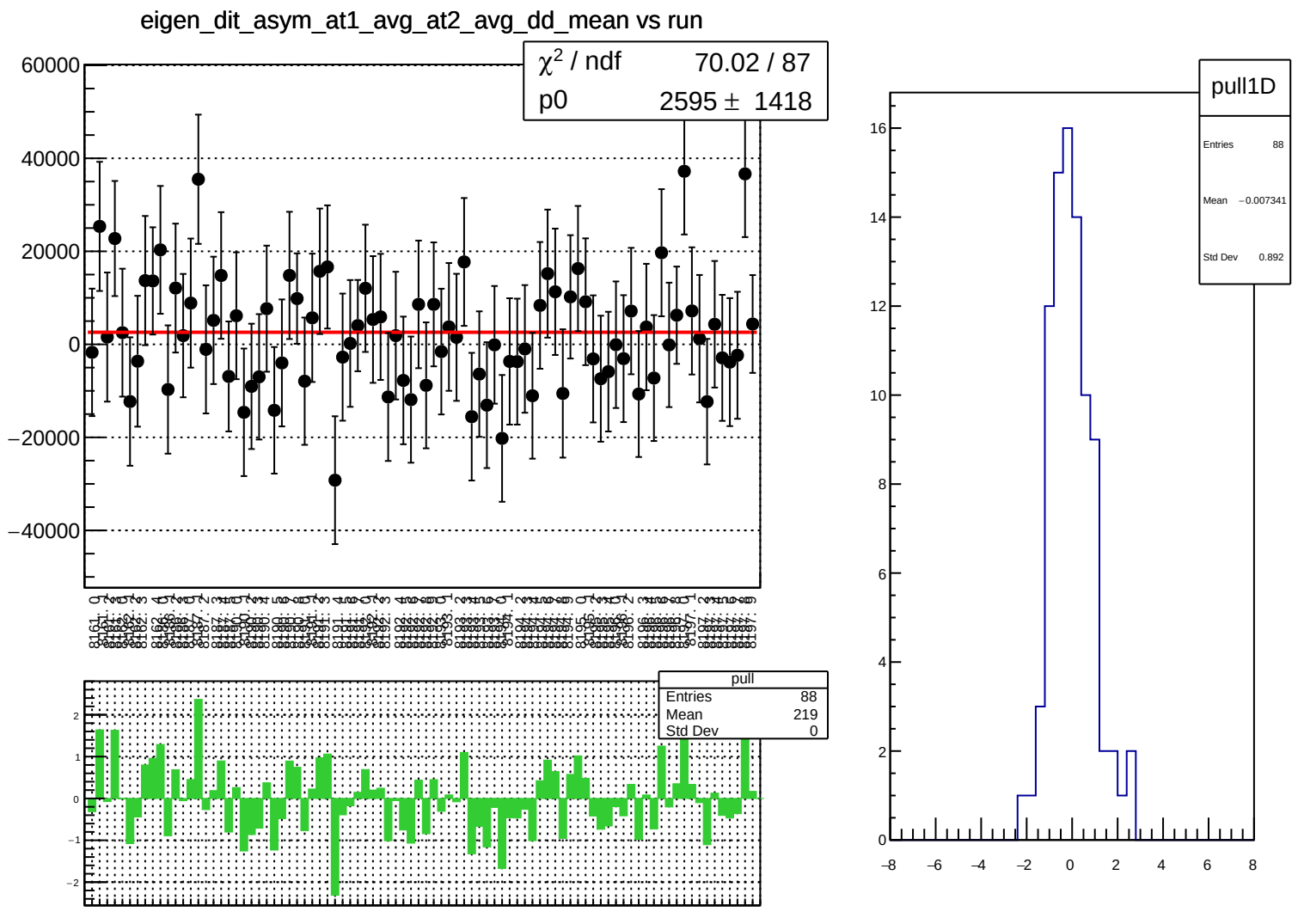

pull1D
Entries 88
Mean −0.00734
Std Dev 0.892

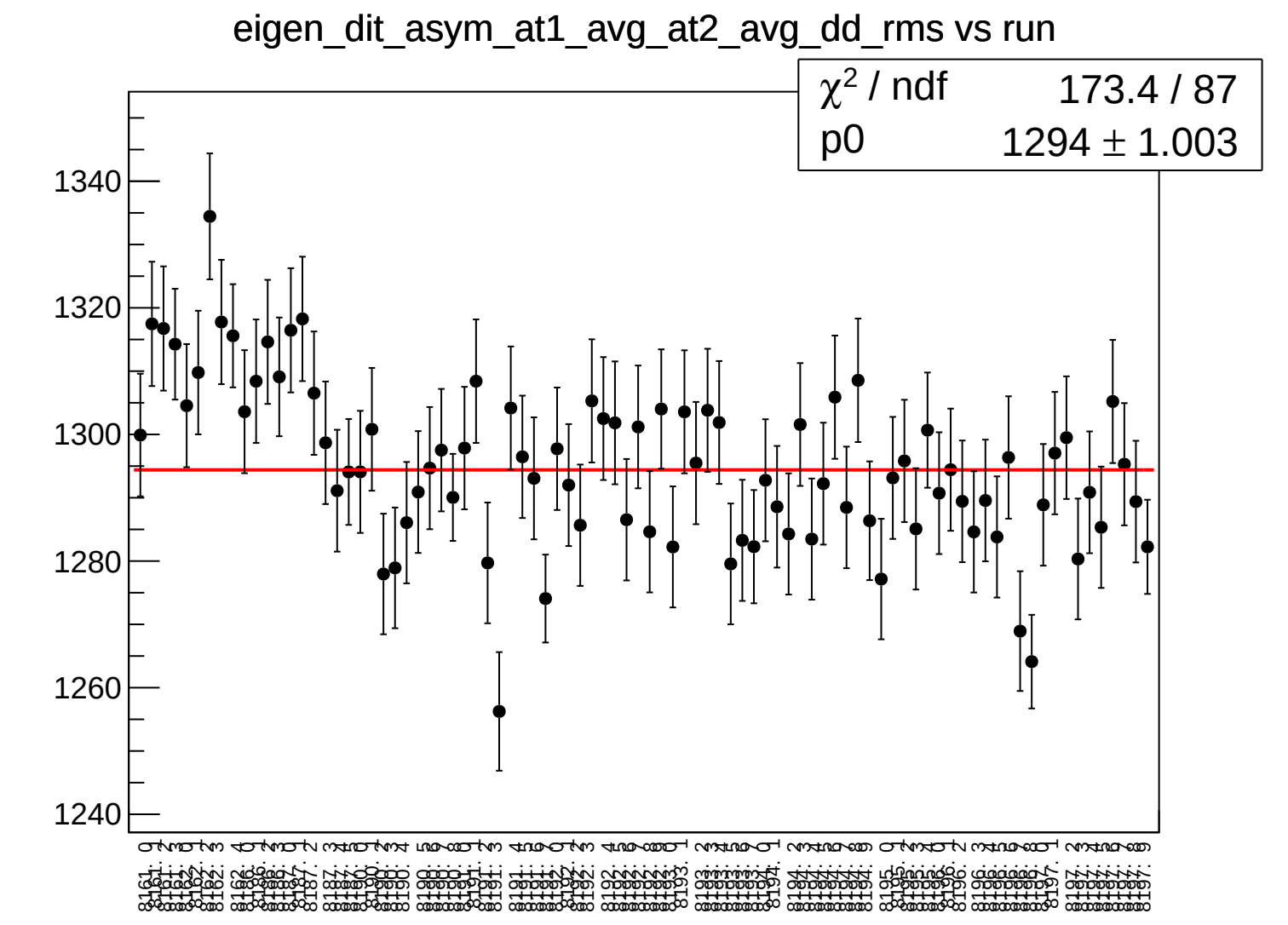

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 173.4 / 87
p0 1294 ± 1.003
1340
1320
1300
1280
1260
1240

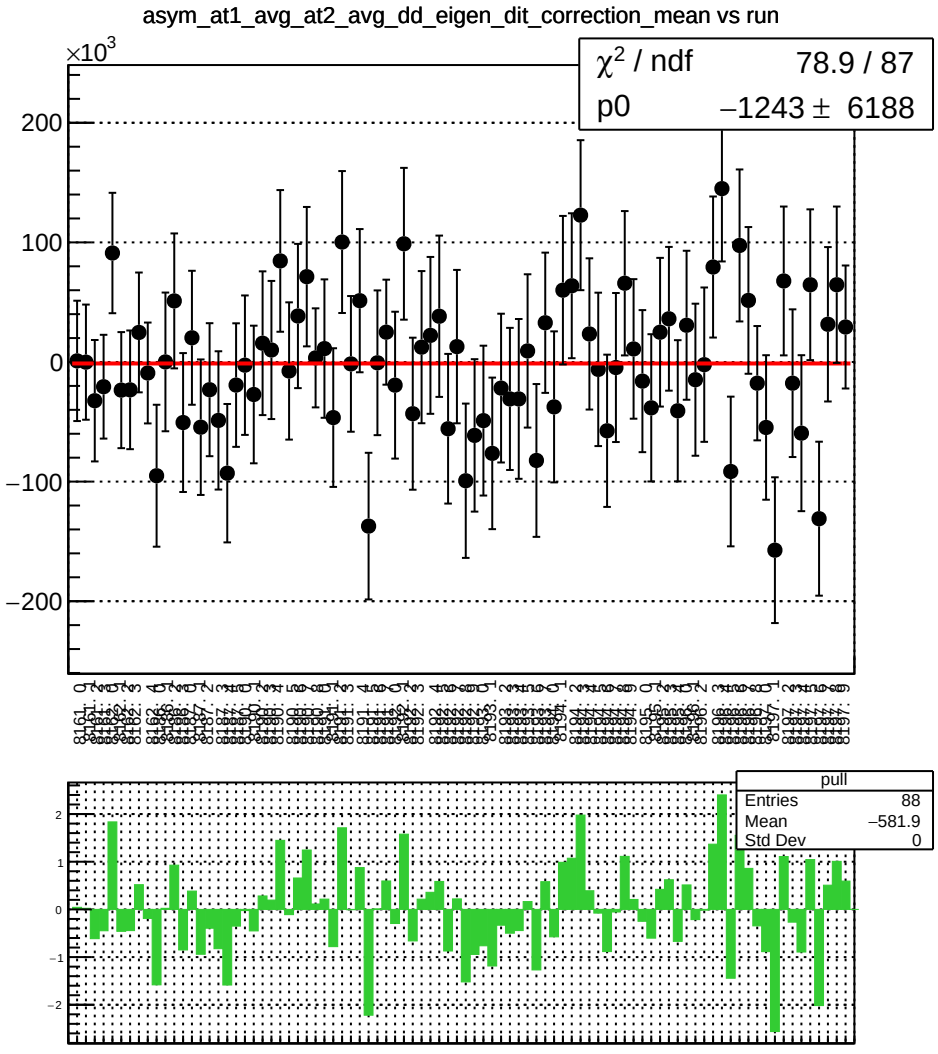

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 78.9 / 87
p0 −1243 ± 6188
200
100
0
−100
−200
pull
Entries 88
Mean −581.9
Std Dev 0
2
1
0
−1
−2

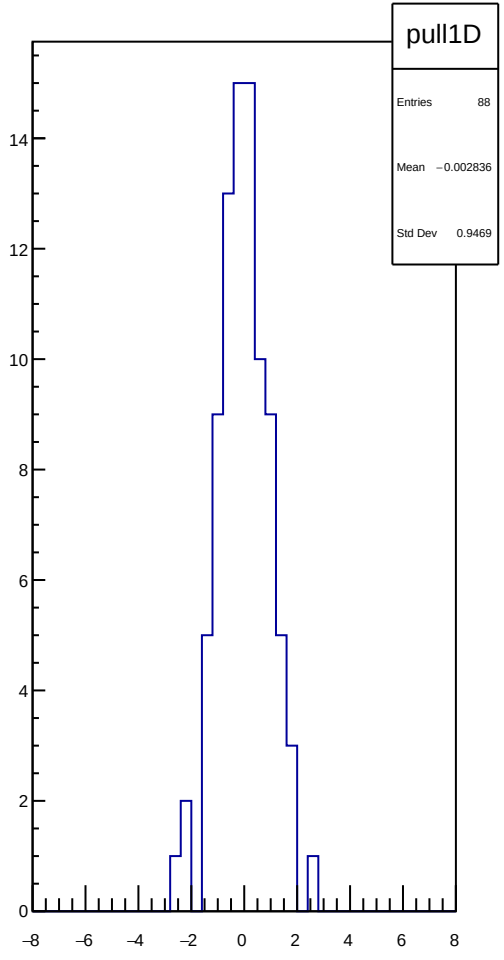

pull1D
Entries 88
Mean −0.002836
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

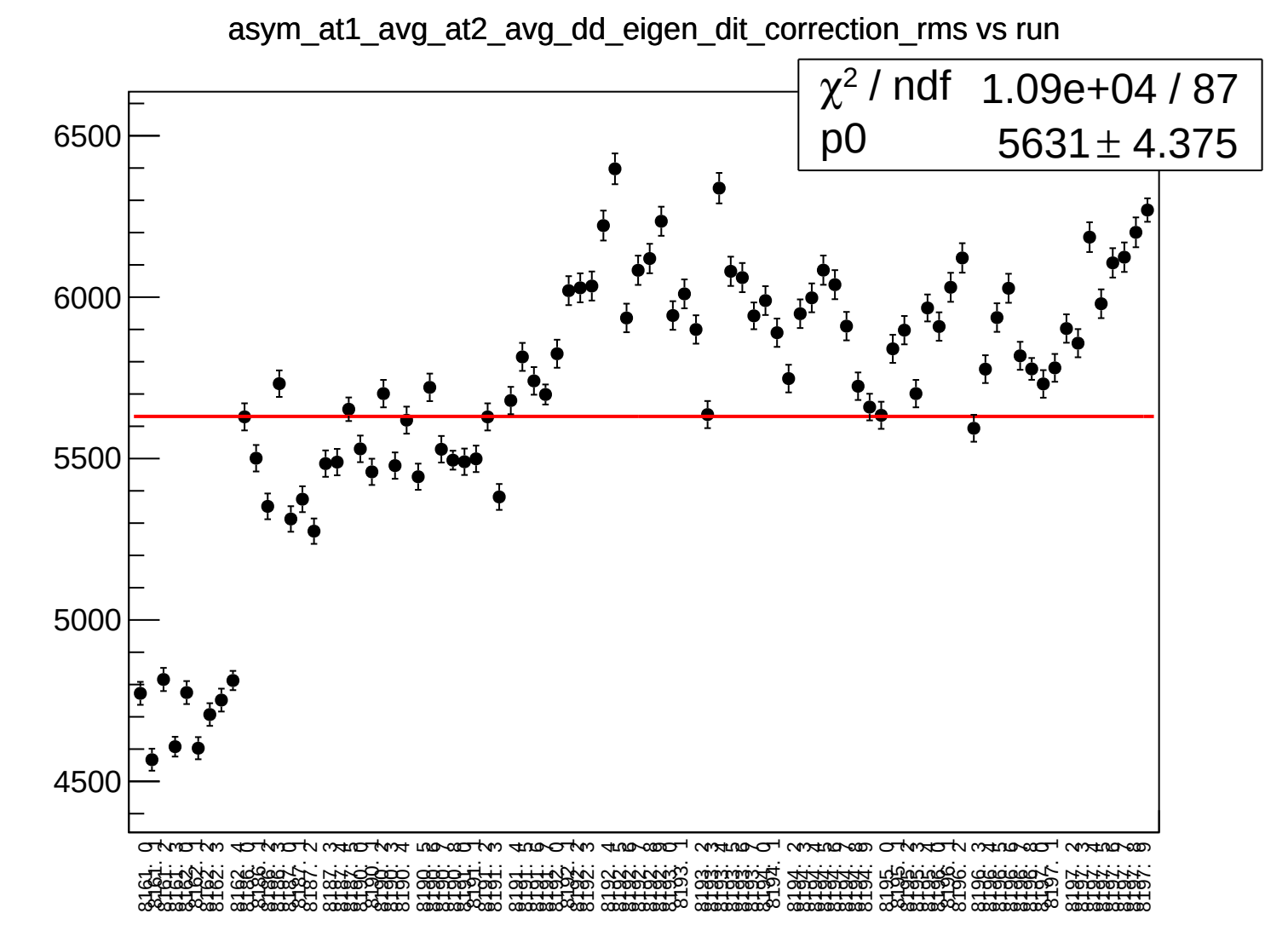

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.09e+04 / 87
p0 5631 ± 4.375
6500
6000
5500
5000
4500

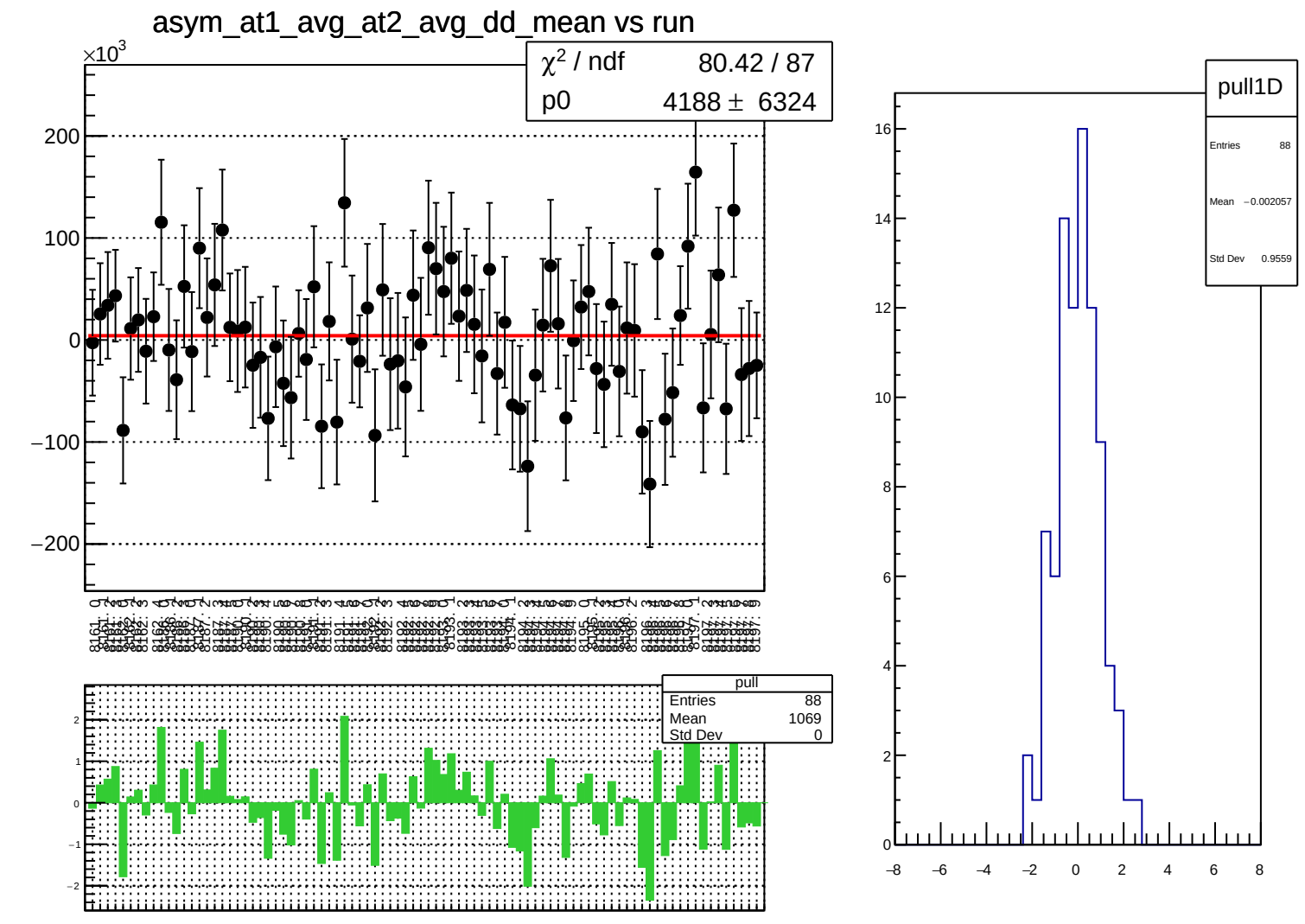

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 70.02 / 87
p0 2595 ± 1418
pull
Entries 88
Mean 219
Std Dev 0
pull1D
Entries 88
Mean −0.007341
Std Dev 0.892

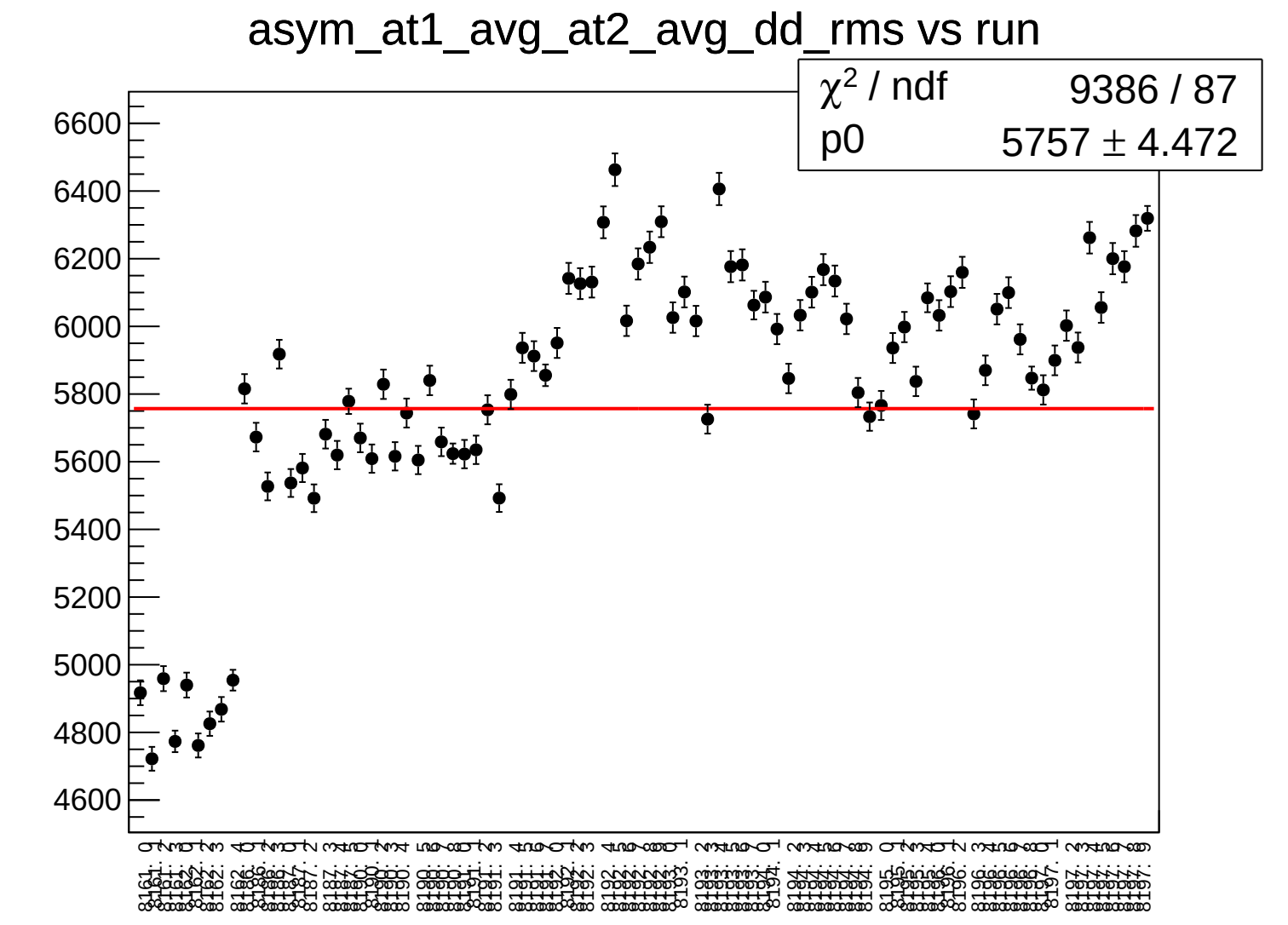

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 173.4 / 87
p0 1294 ± 1.003
1340
1320
1300
1280
1260
1240

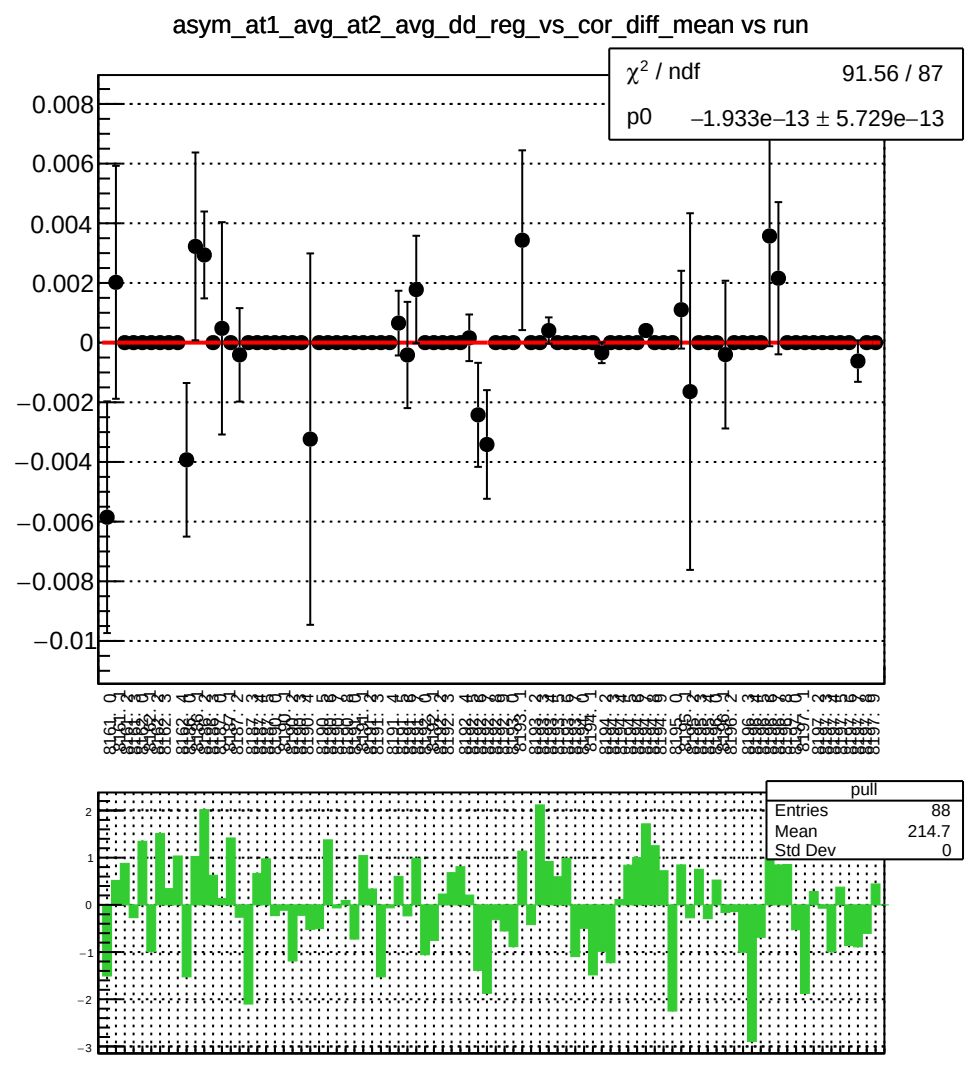

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.9 / 87
p0 −1243 ± 6188
200
100
0
−100
−200
pull
Entries 88
Mean −581.9
Std Dev 0
2
1
0
−1
−2

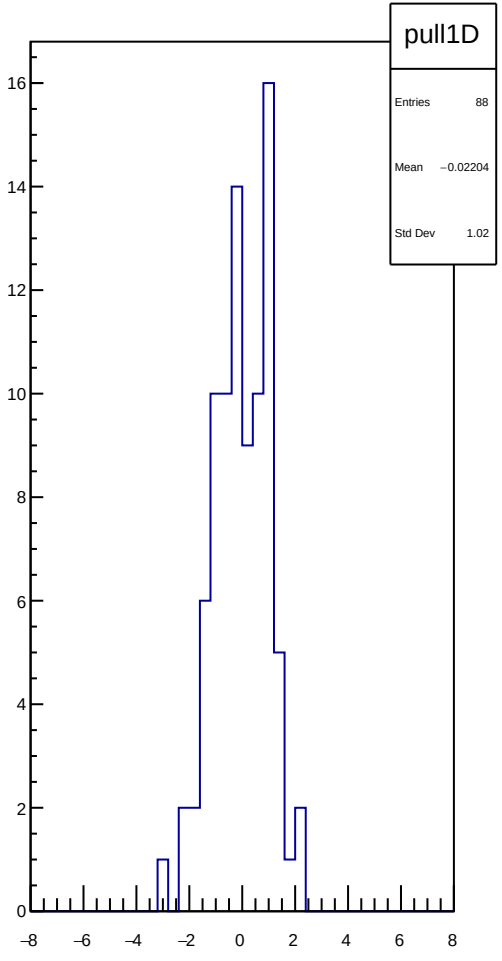

pull1D
Entries 88
Mean −0.002836
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

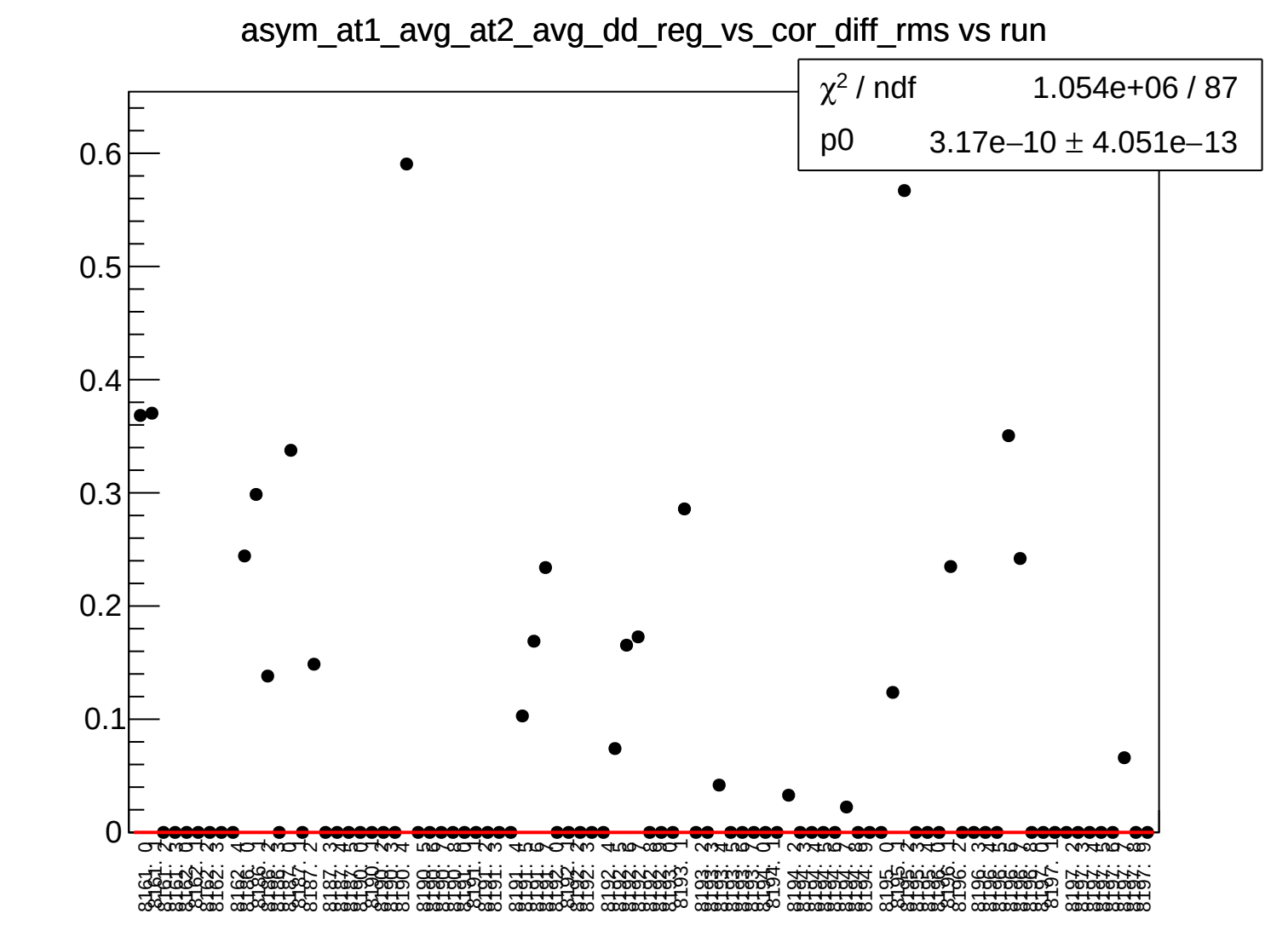

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.09e+04 / 87
p0 5631 ± 4.375
6500
6000
5500
5000
4500

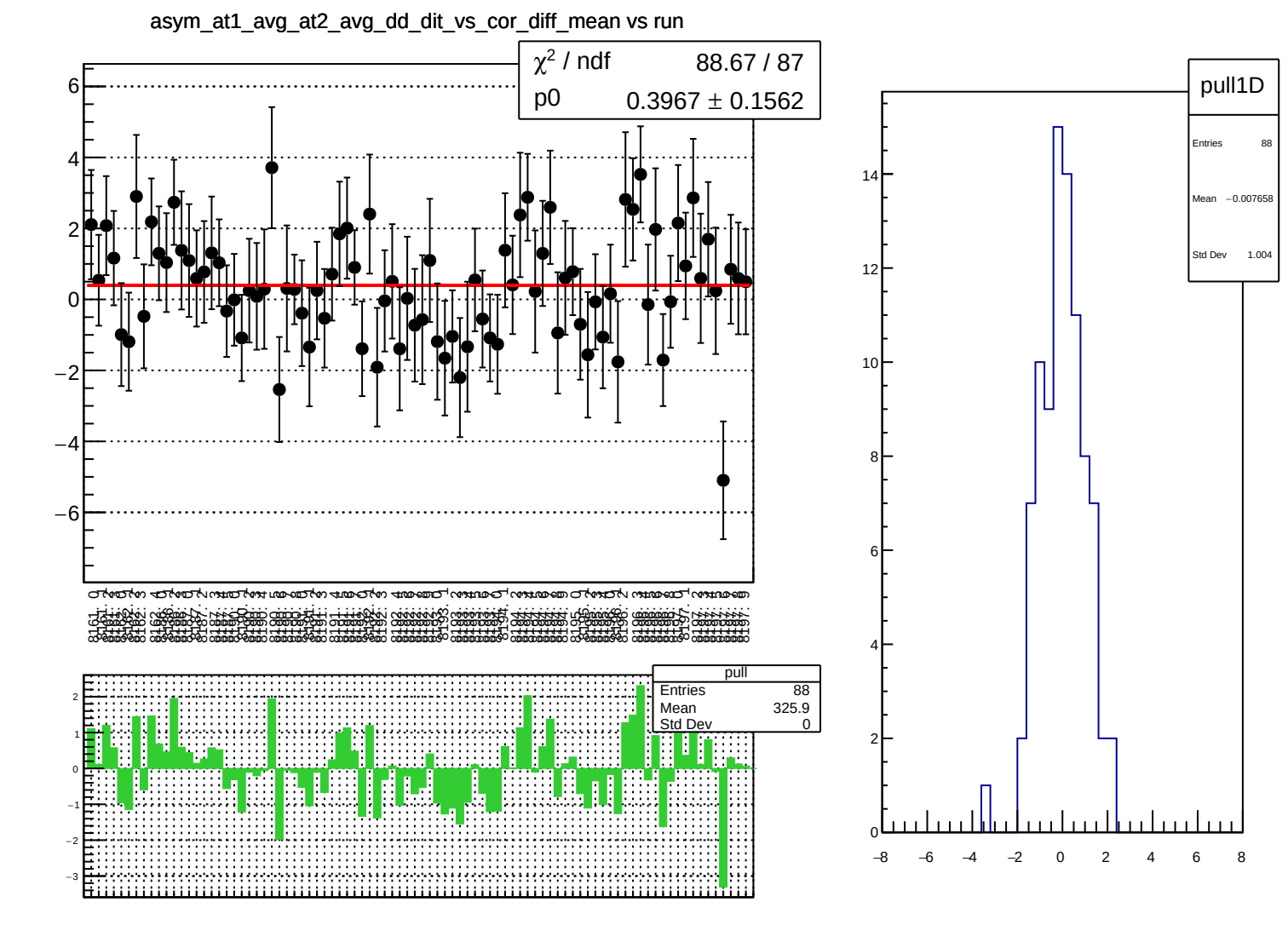

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ^2 / ndf 80.42 / 87
p0 4188 ± 6324
200
100
0
−100
−200
pull
Entries 88
Mean 1069
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002057
Std Dev 0.9559
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

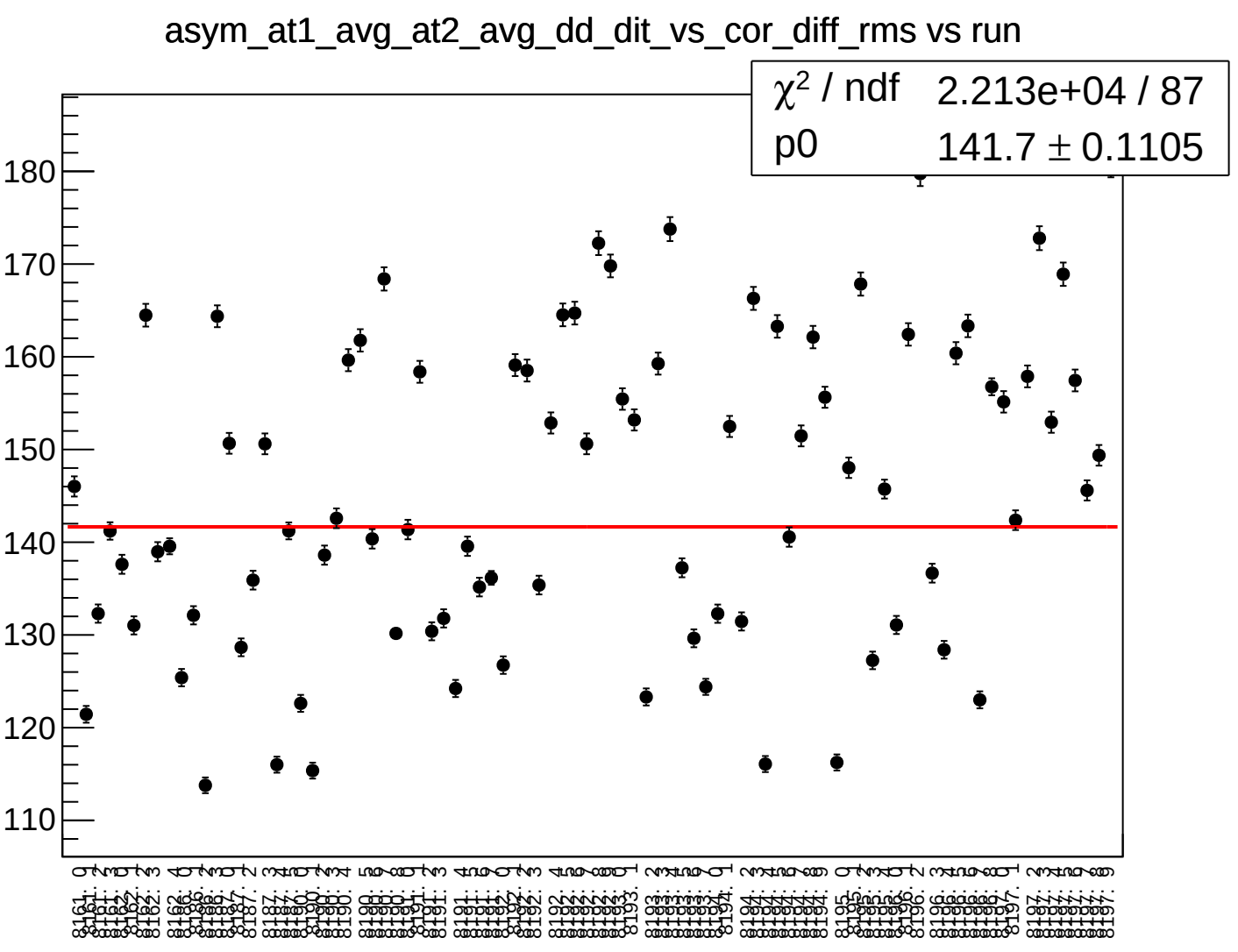

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 9386 / 87
p0 5757 ± 4.472
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

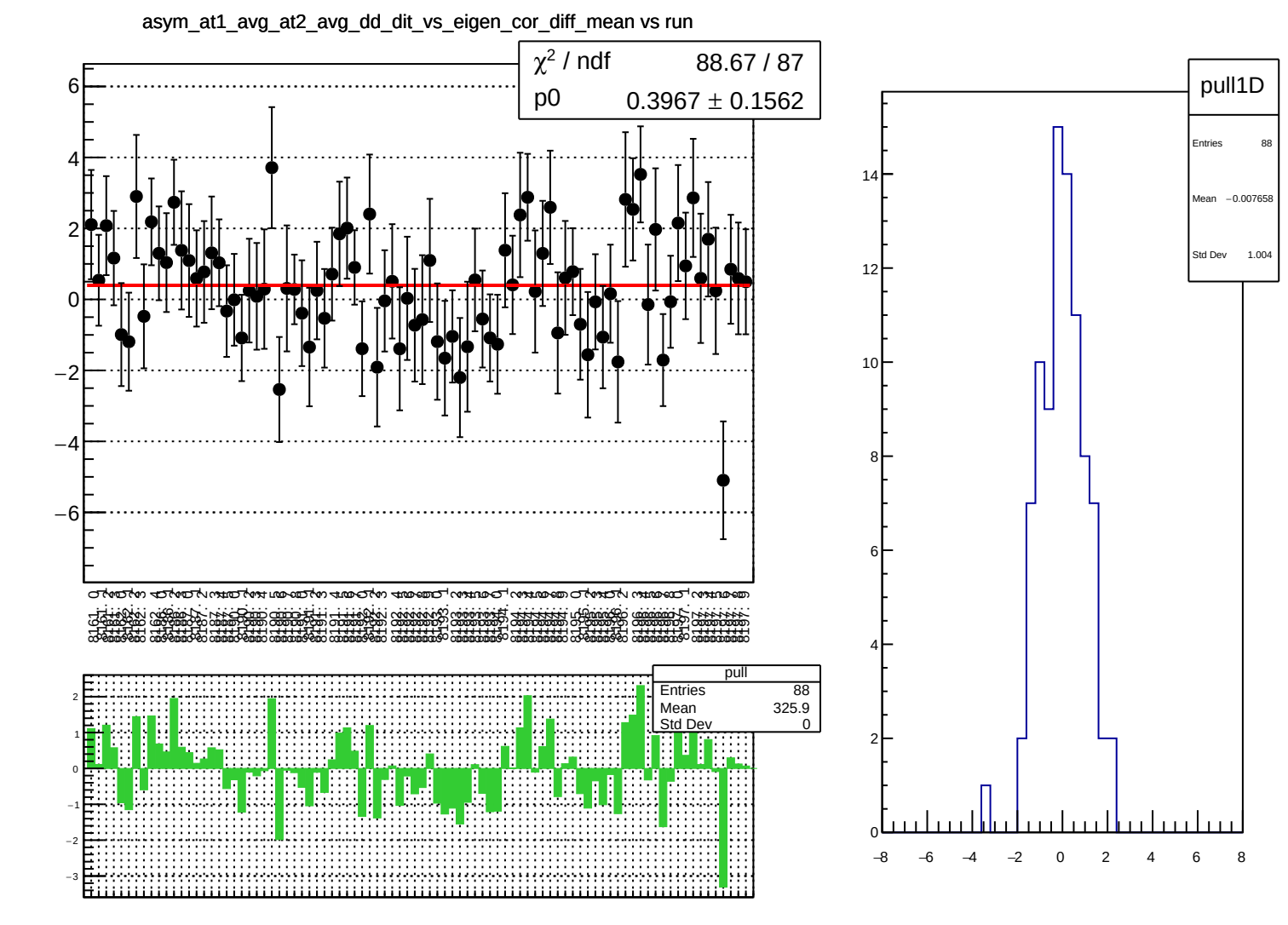

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 87
p0 −1.933e−13 ± 5.729e−13
pull
Entries 88
Mean 214.7
Std Dev 0

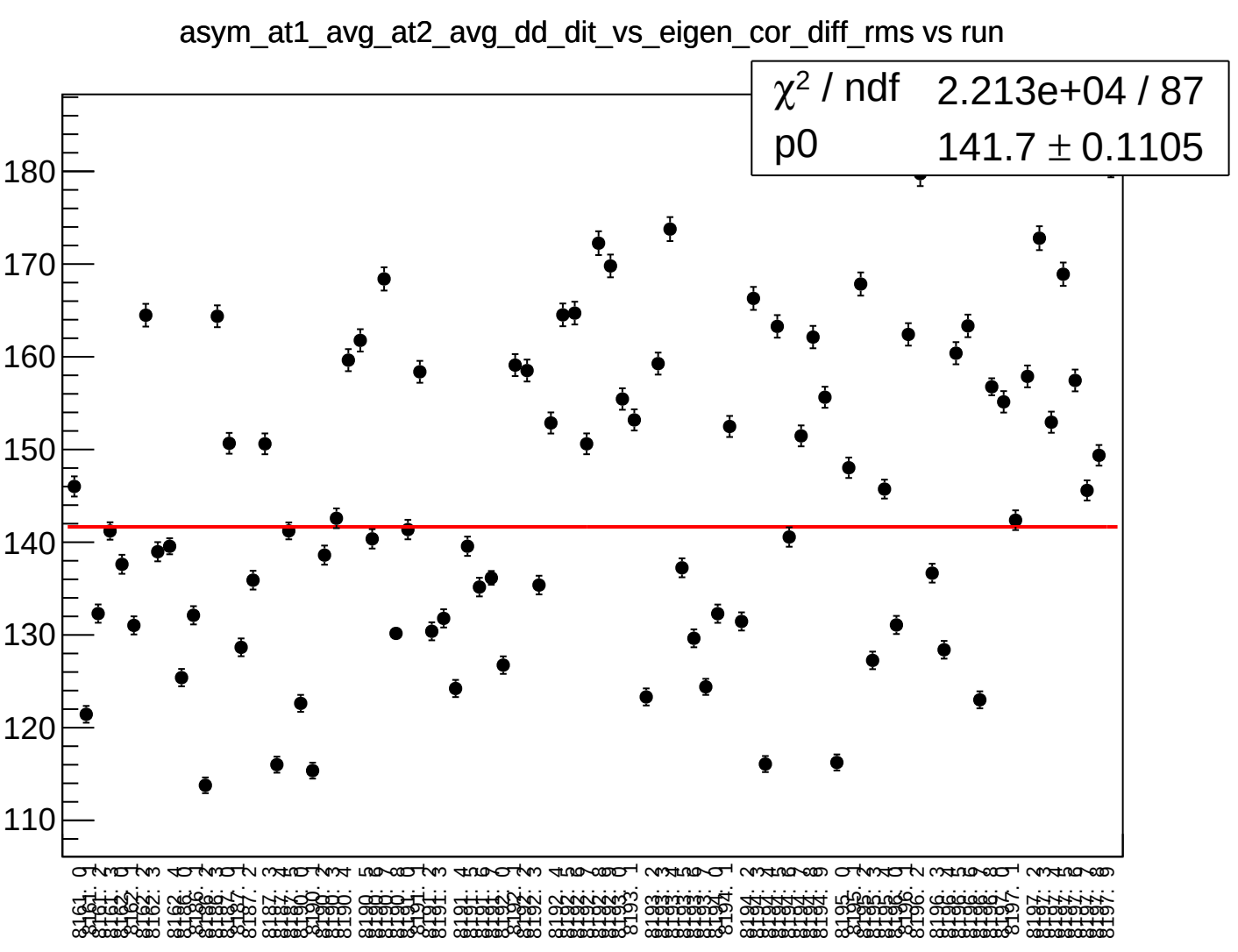

pull1D
Entries 88
Mean −0.02204
Std Dev 1.02

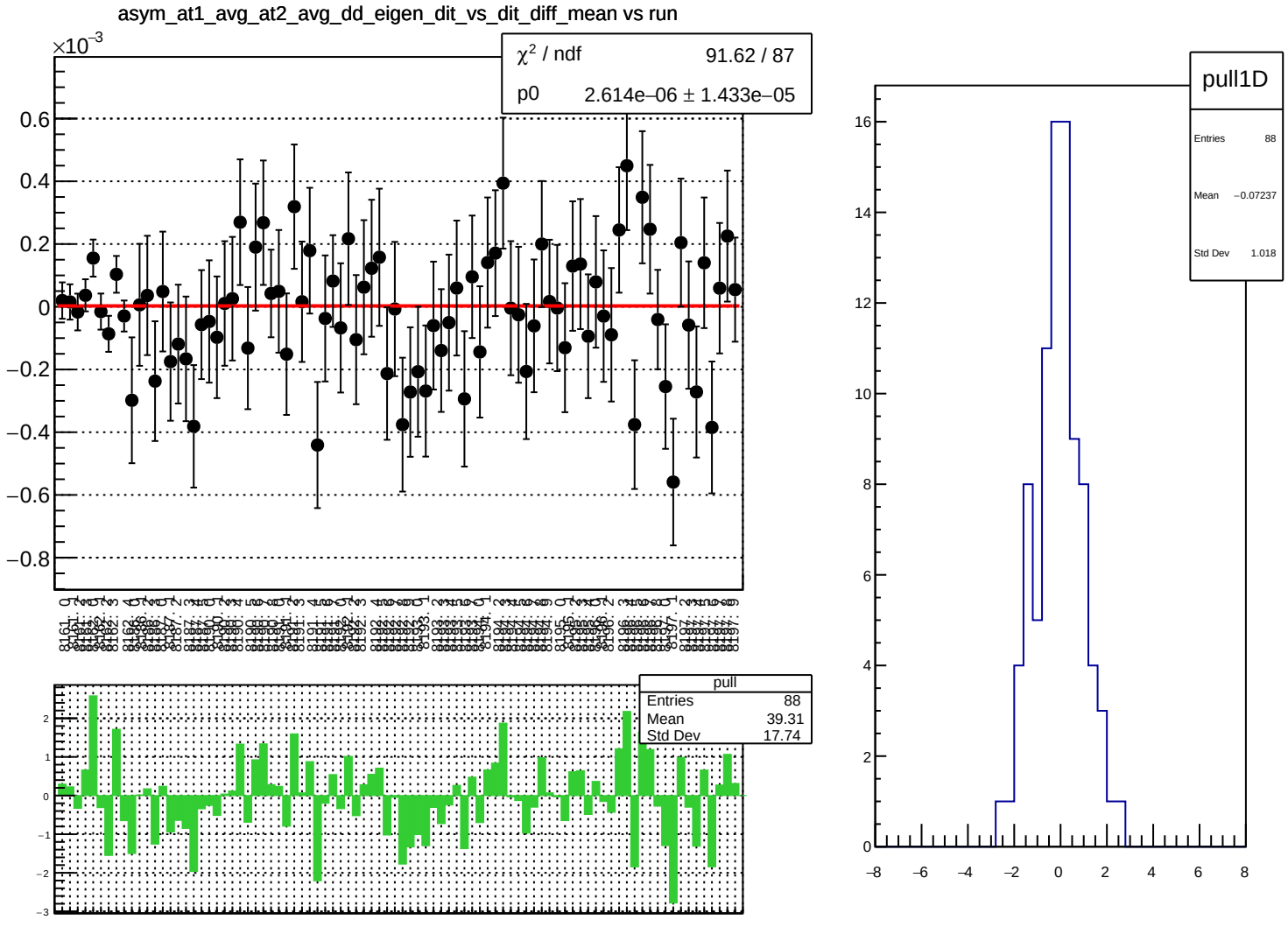

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.054e+06 / 87
p0 3.17e−10 ± 4.051e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

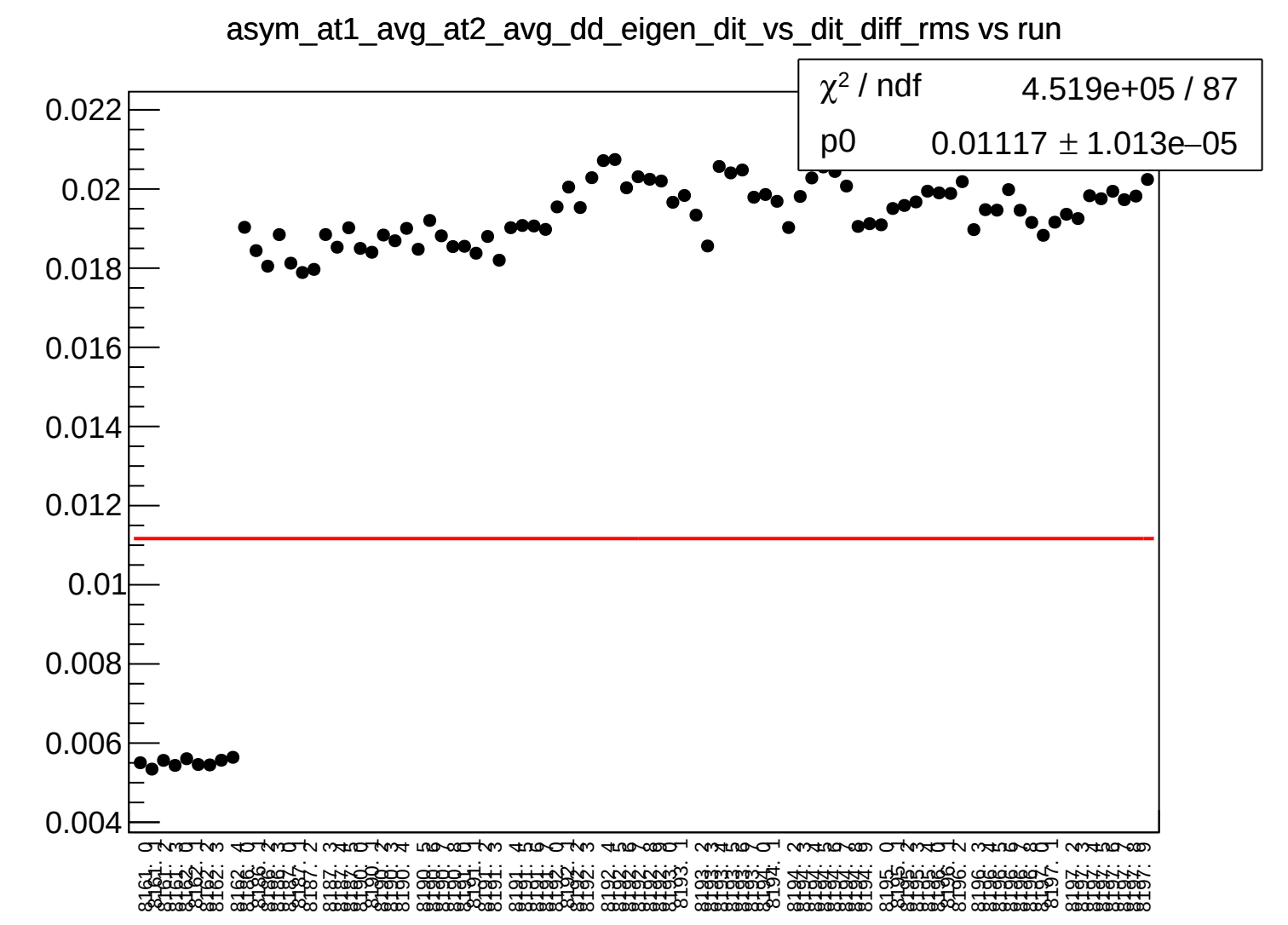

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.67 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.9
Std Dev 0
pull1D
Entries 88
Mean −0.007658
Std Dev 1.004

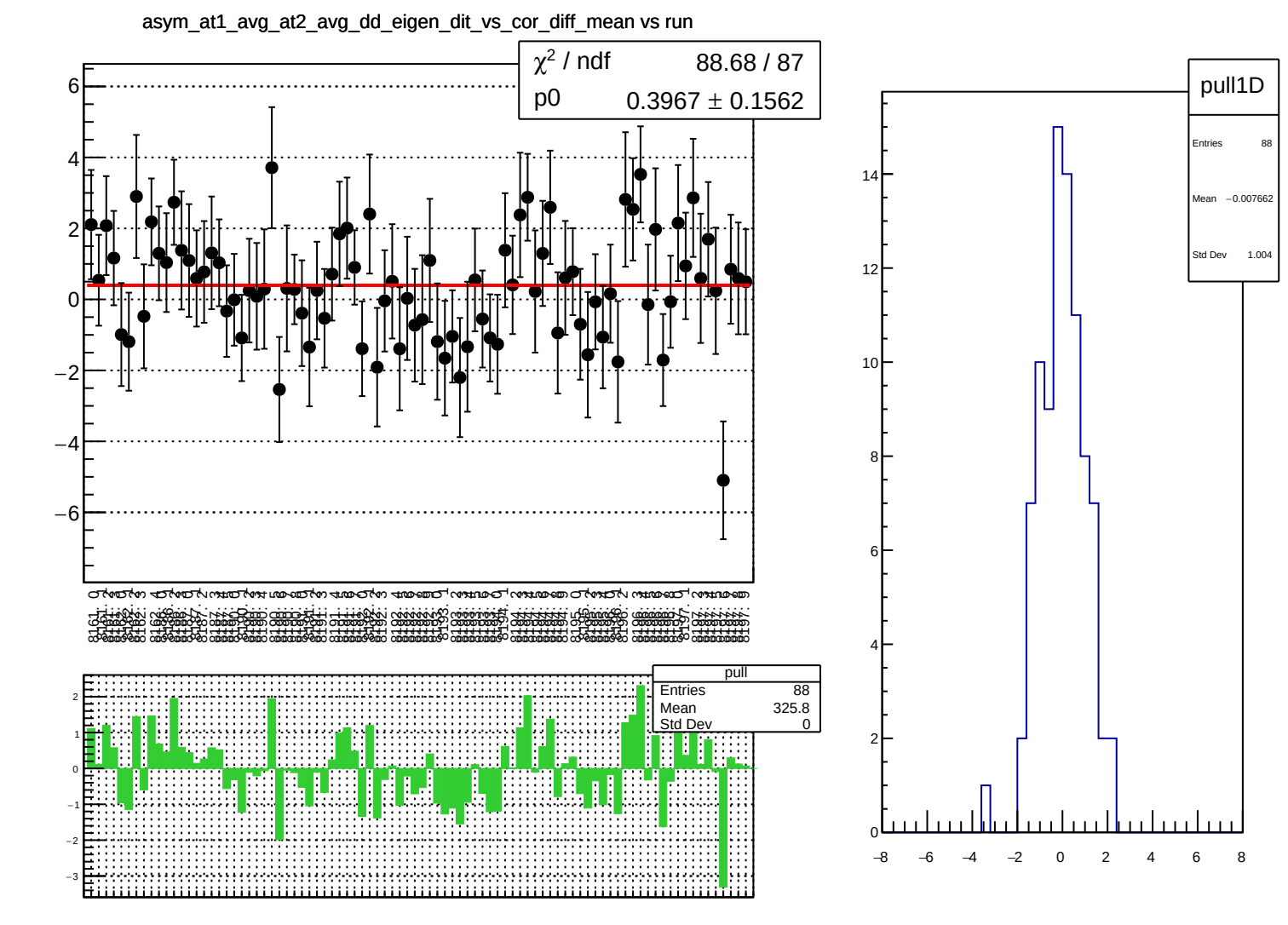

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

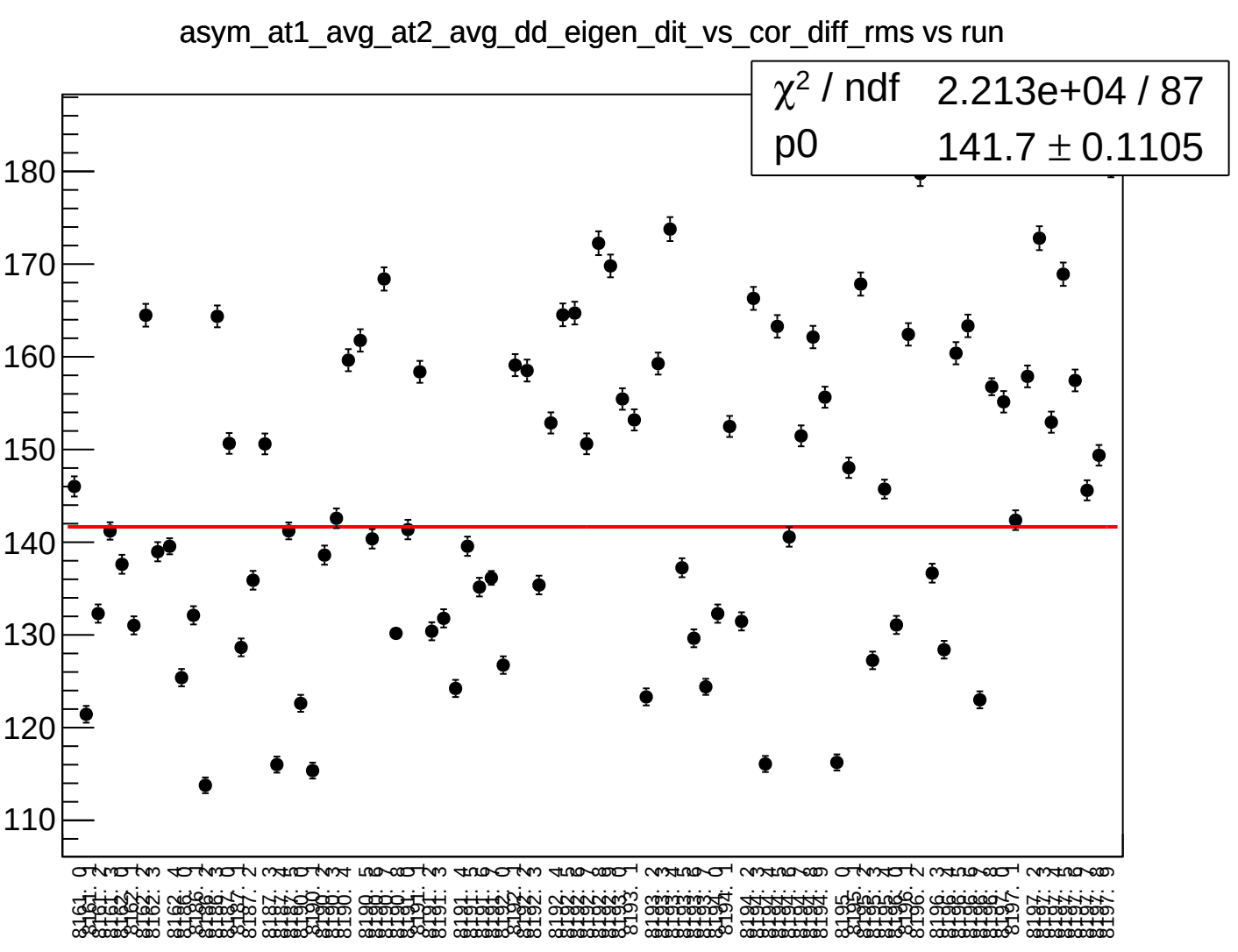

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.67 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.9
Std Dev 0
pull1D
Entries 88
Mean −0.007658
Std Dev 1.004

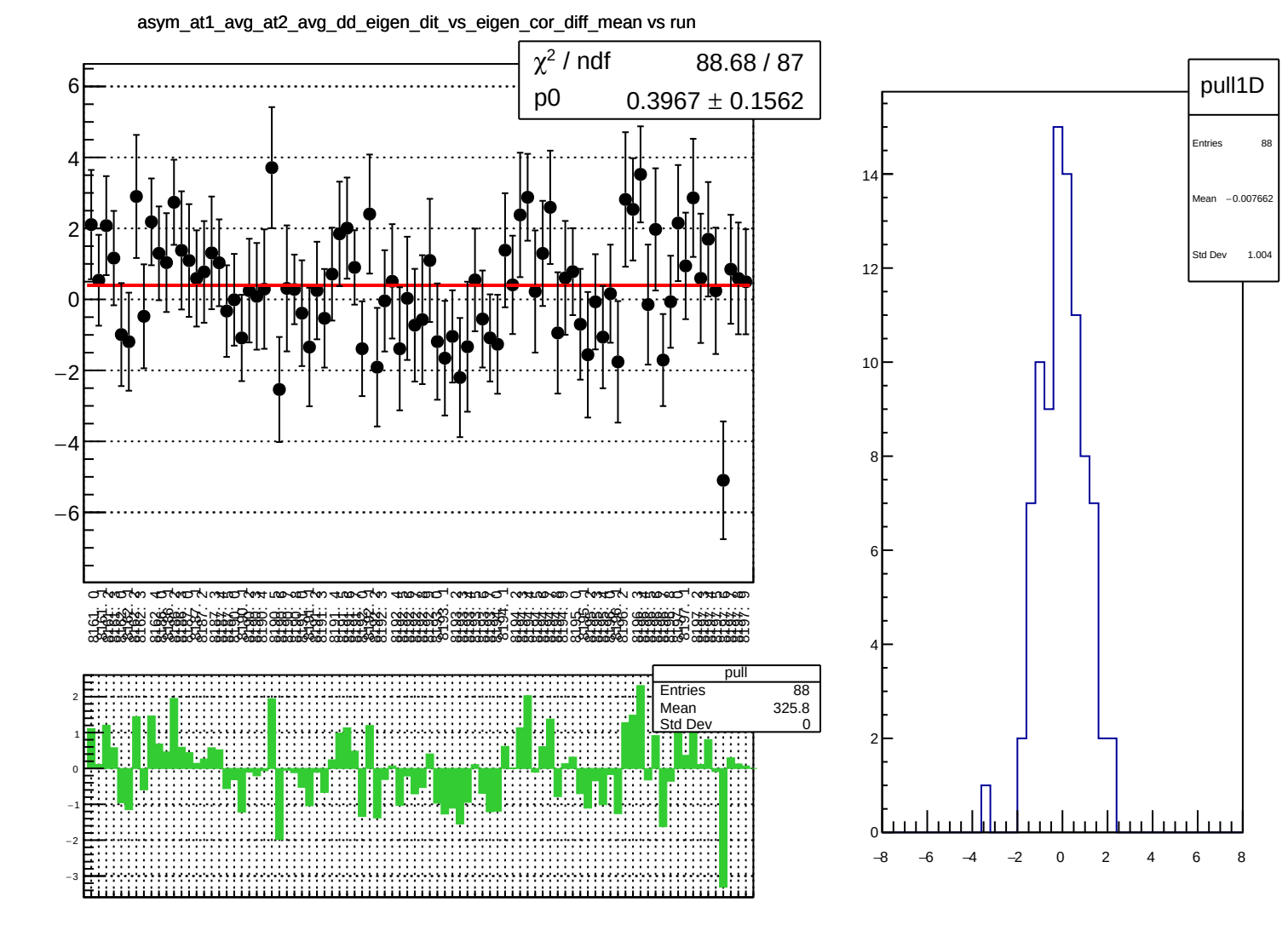

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

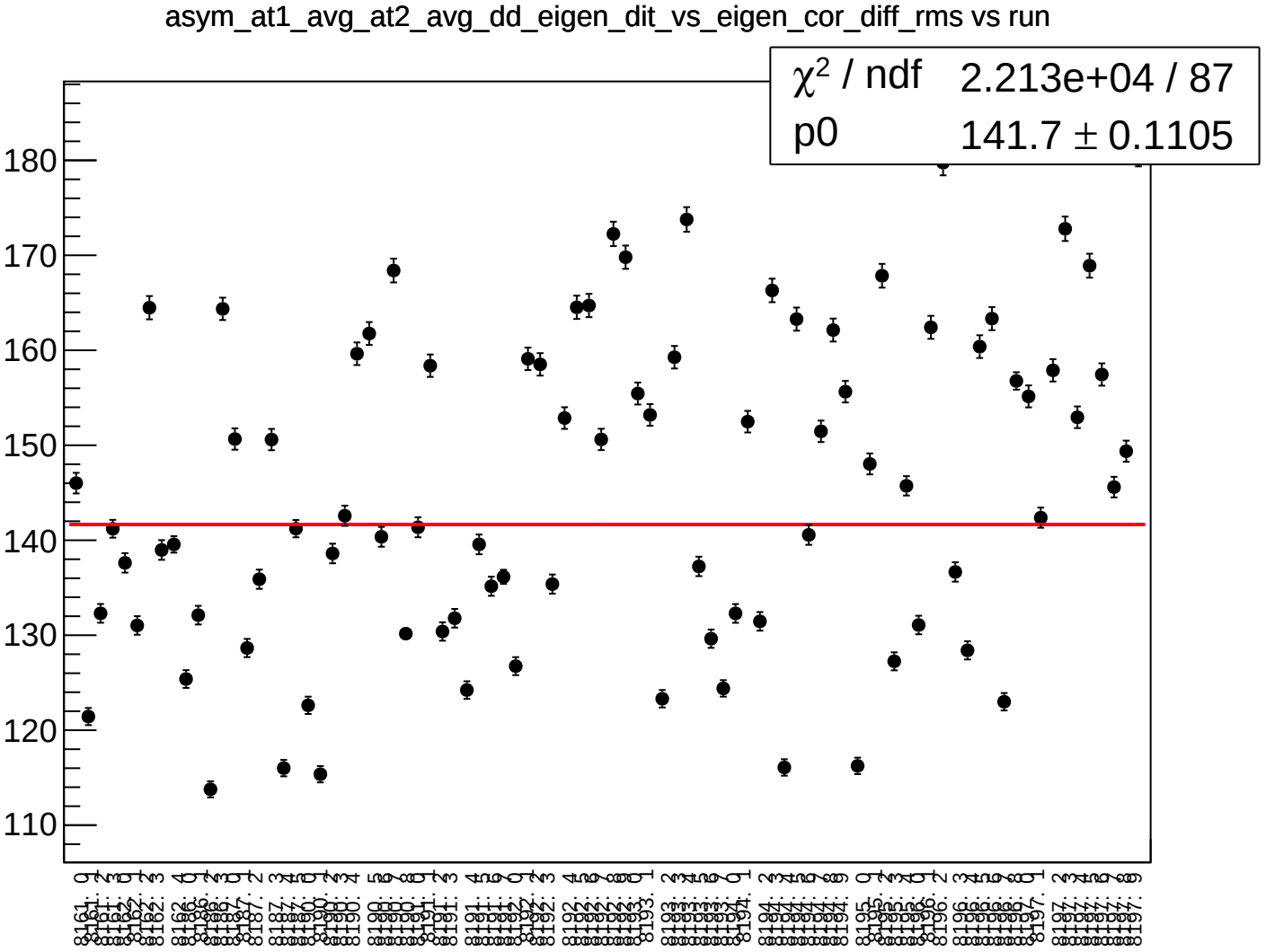

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.62 / 87
p0 2.614e−06 ± 1.433e−05
pull
Entries 88
Mean 39.31
Std Dev 17.74
pull1D
Entries 88
Mean −0.07237
Std Dev 1.018

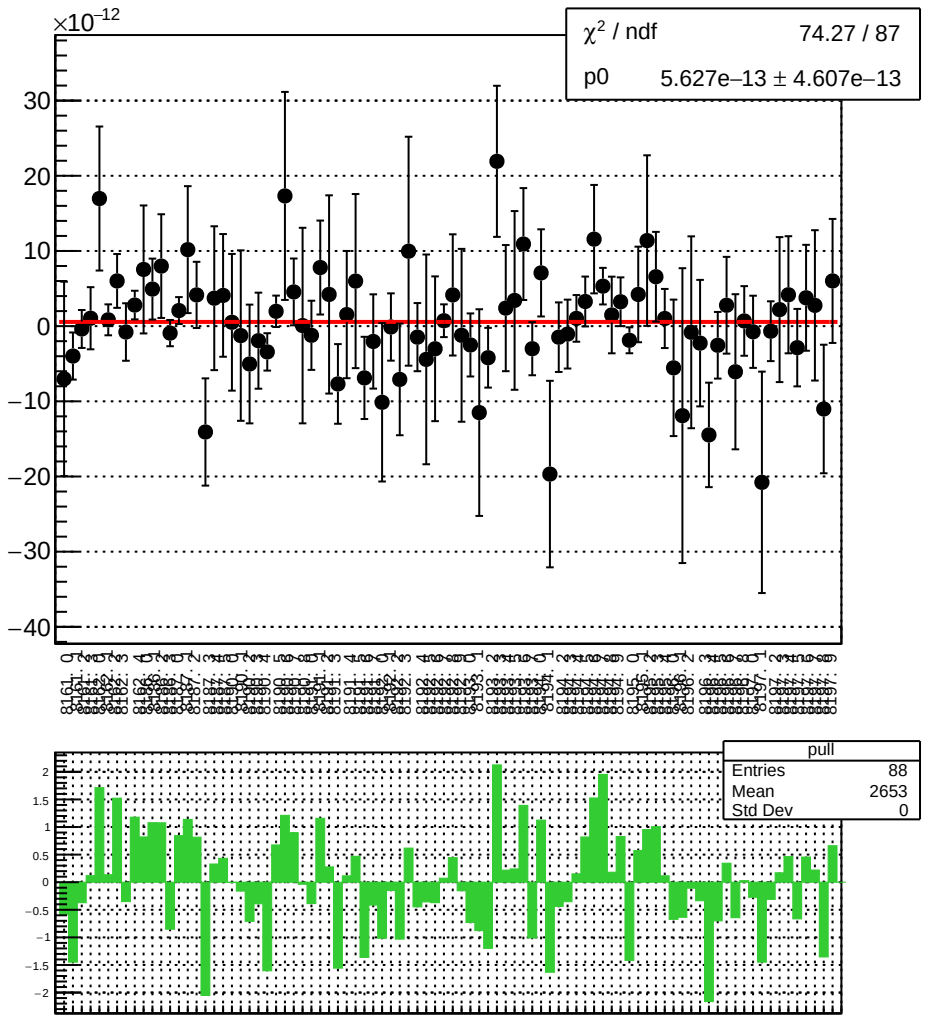

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.519e+05 / 87
p0 0.01117 ± 1.013e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

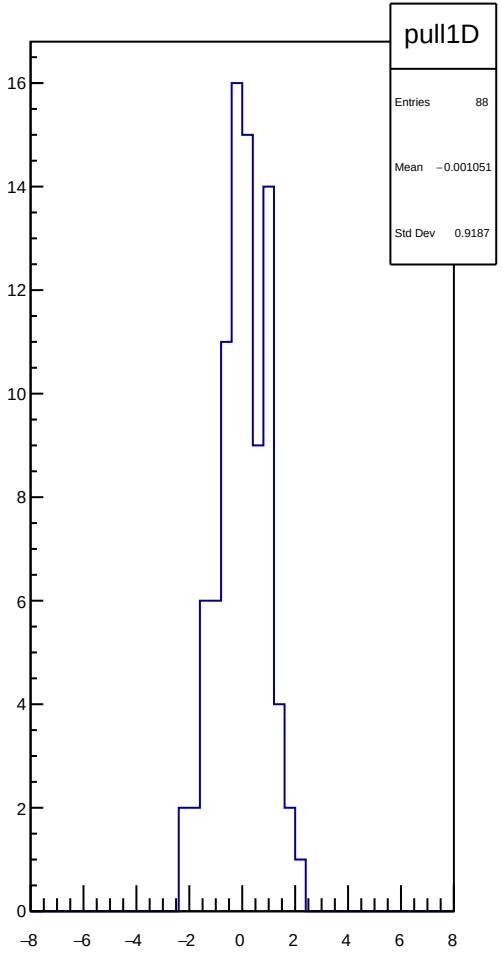

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.68 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.8
Std Dev 0
pull1D
Entries 88
Mean −0.007662
Std Dev 1.004

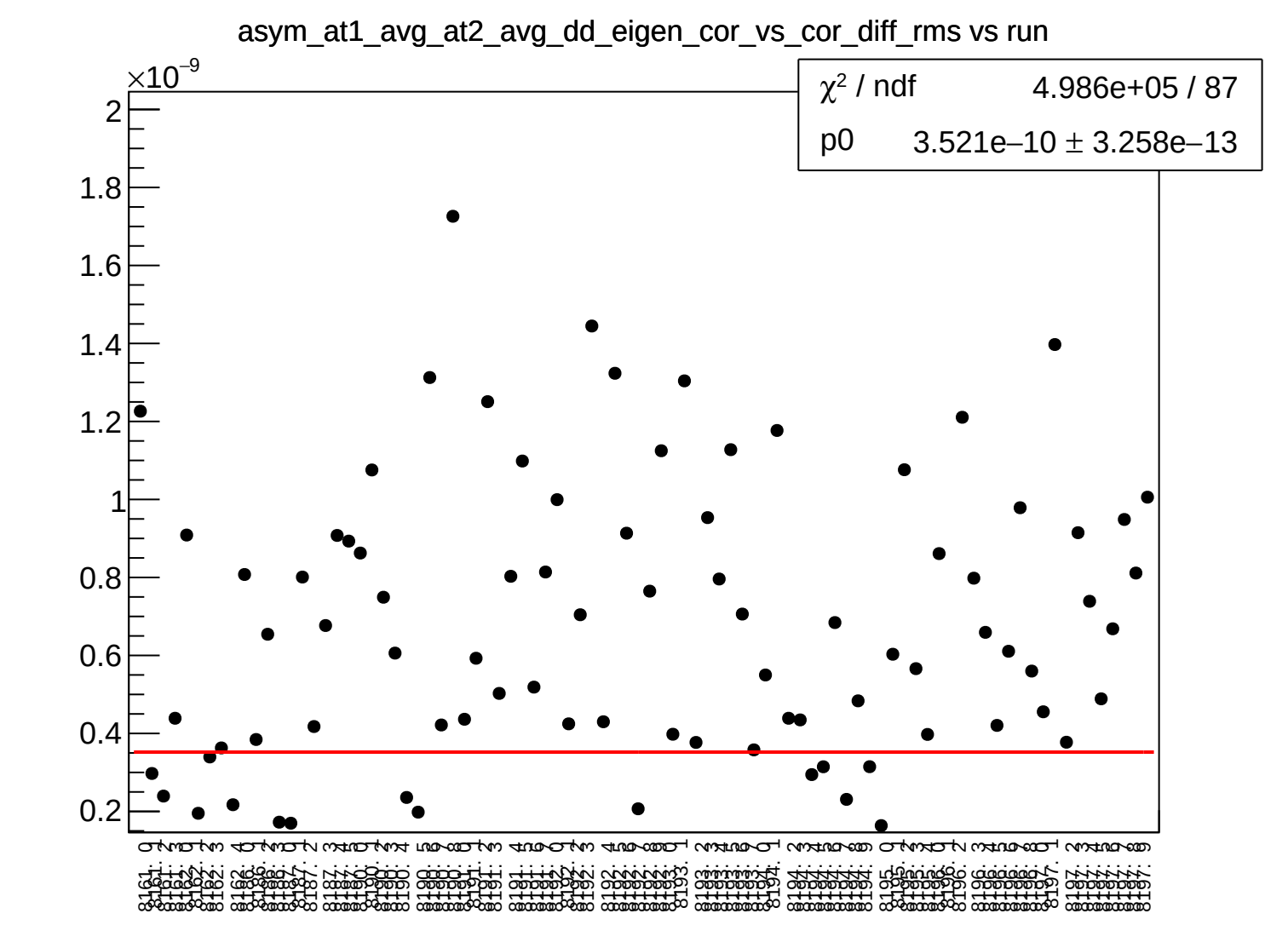

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

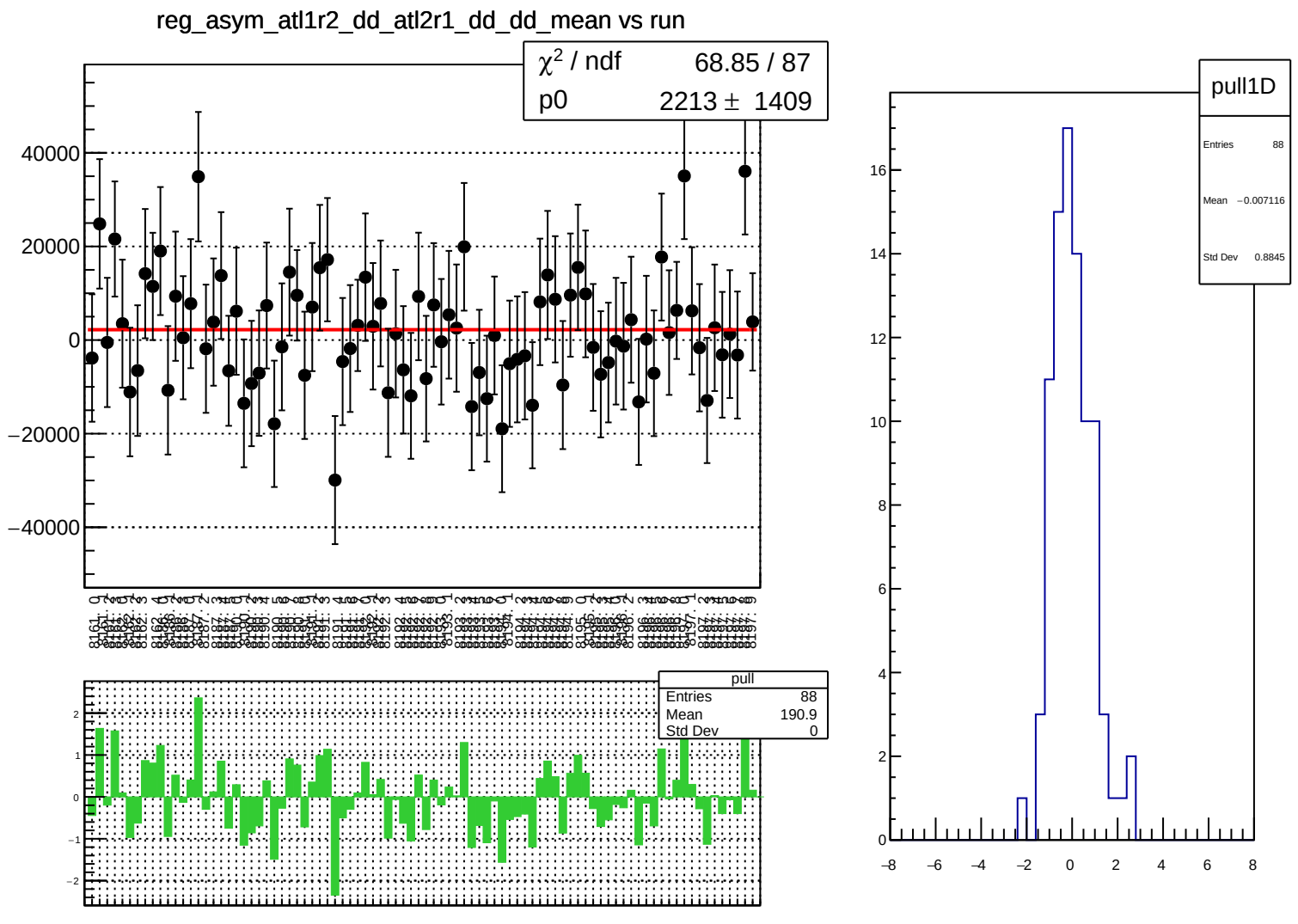

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.68 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.8
Std Dev 0
pull1D
Entries 88
Mean −0.007662
Std Dev 1.004

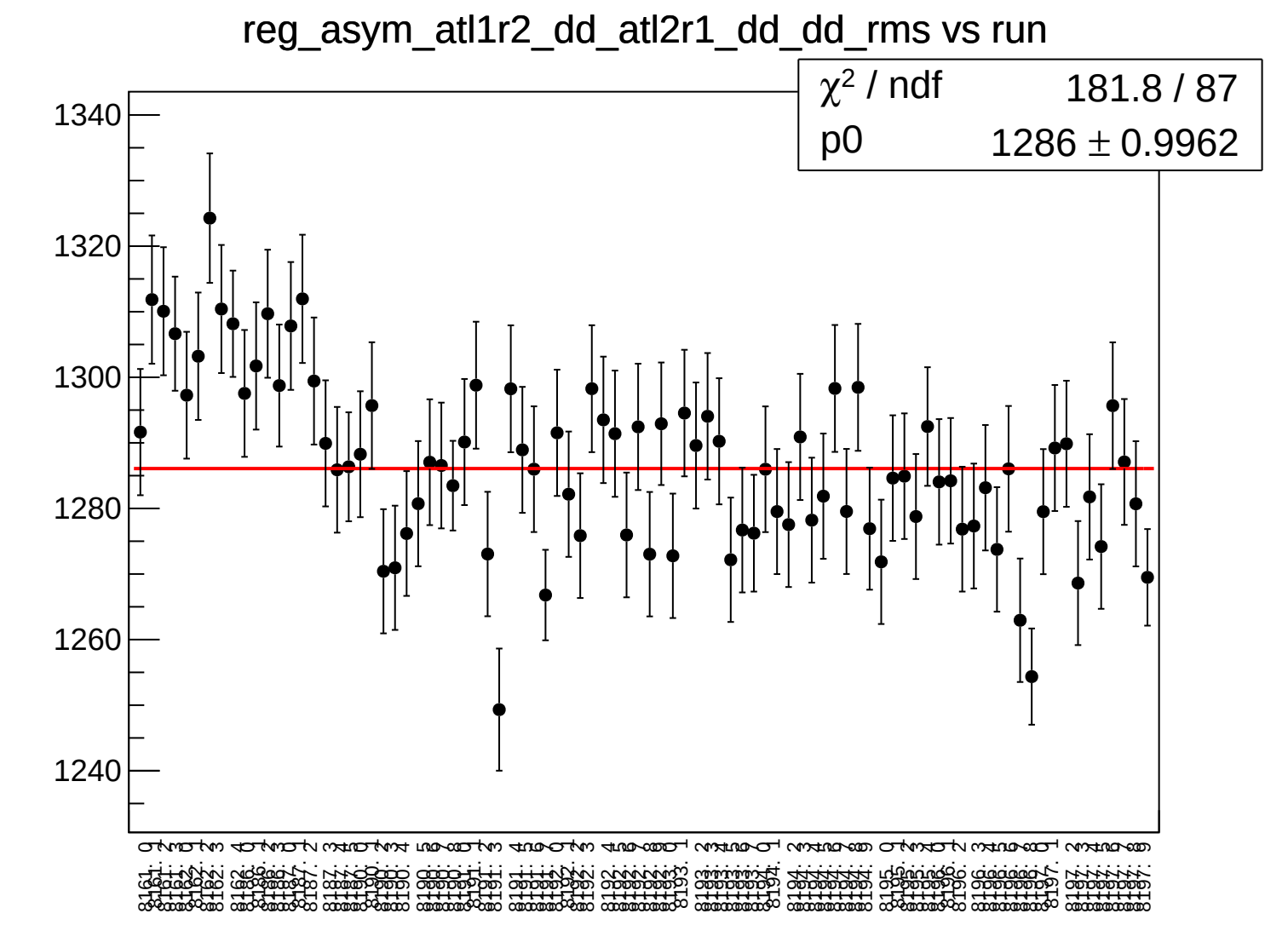

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

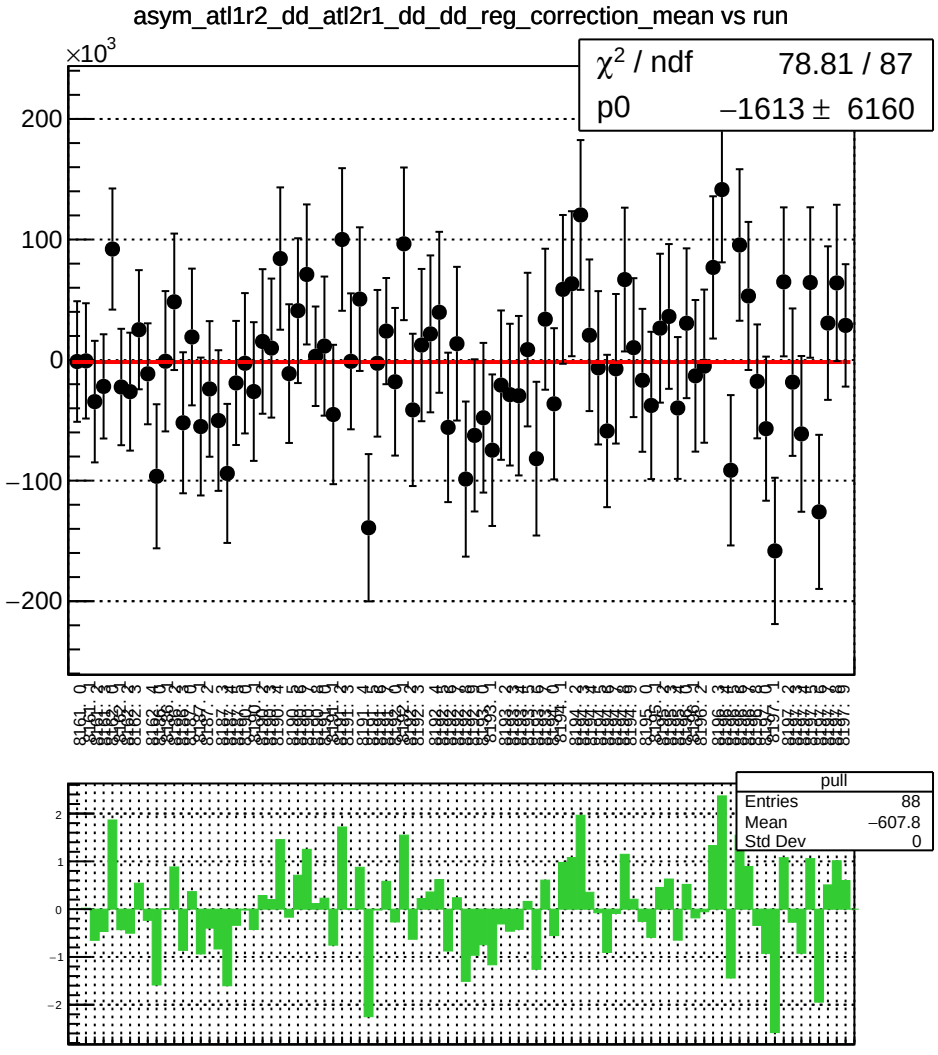

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.27 / 87
p0 5.627e−13 ± 4.607e−13
pull
Entries 88
Mean 2653
Std Dev 0

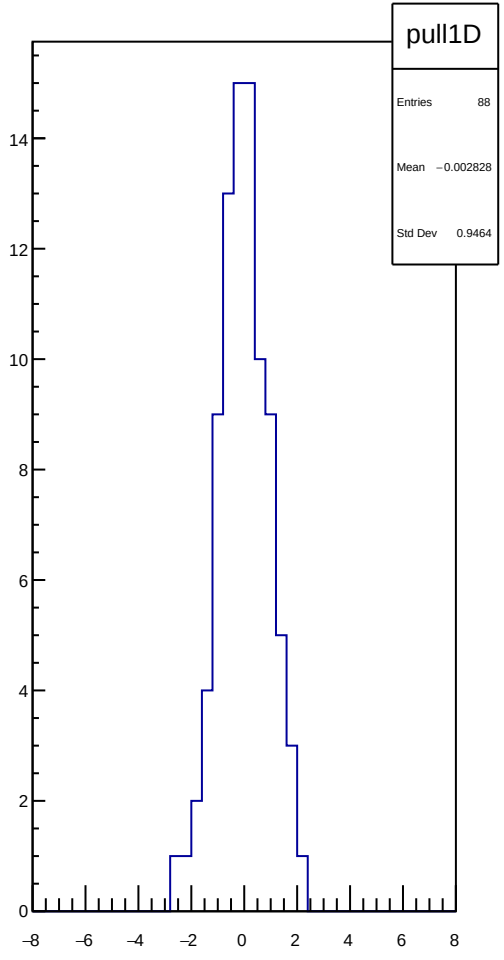

pull1D
Entries 88
Mean −0.001051
Std Dev 0.9187

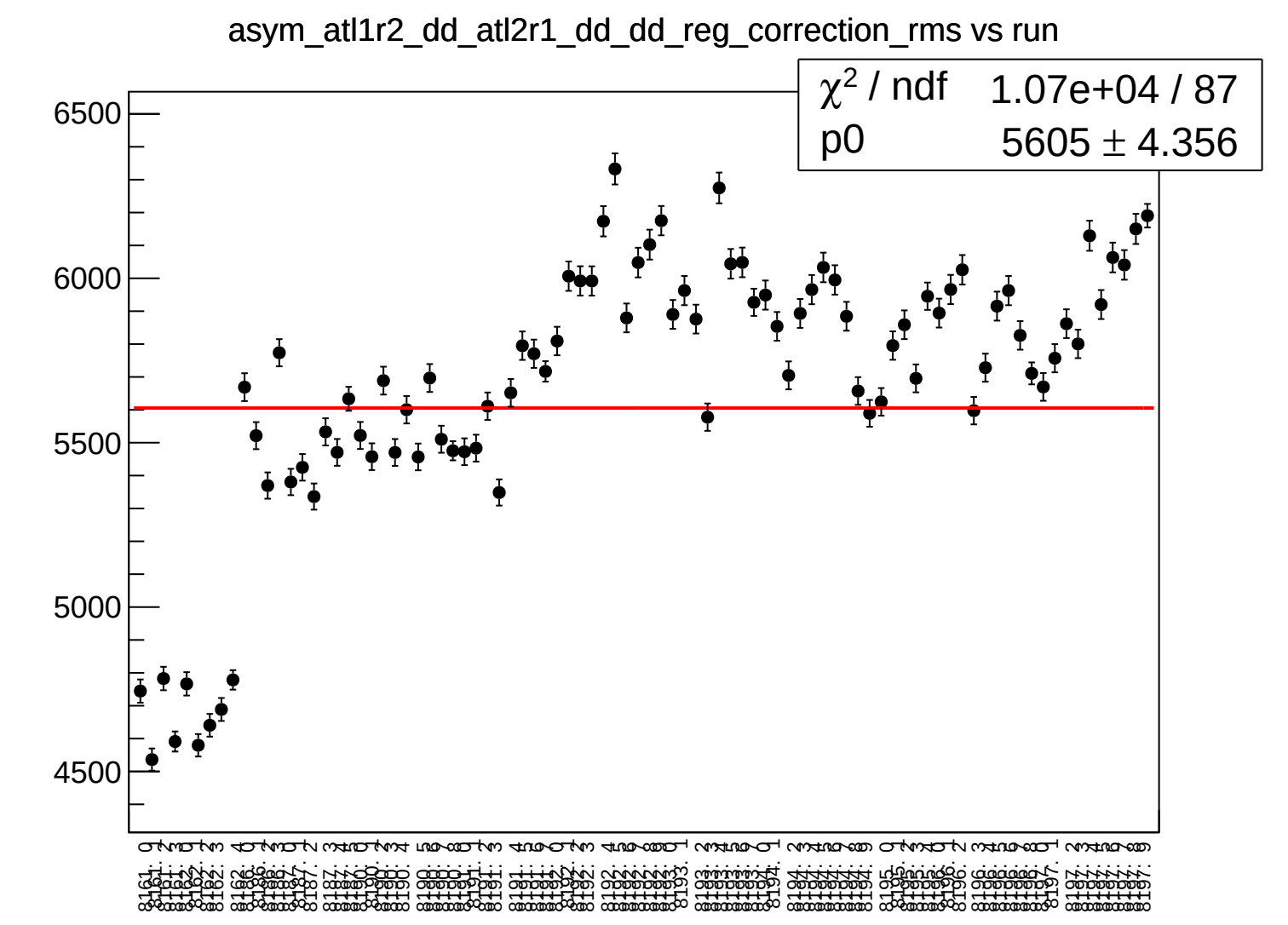

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.986e+05 / 87
p0 3.521e−10 ± 3.258e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

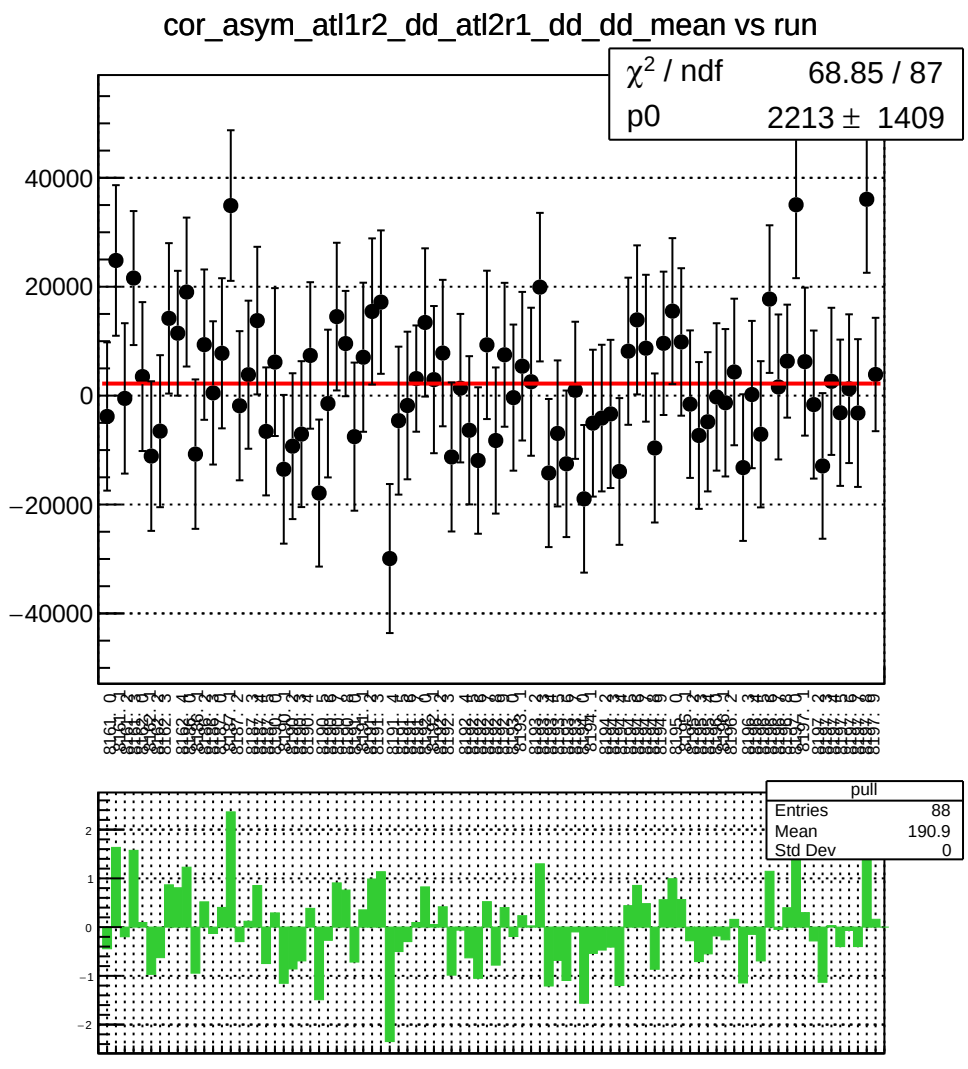

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 68.85 / 87
p0 2213 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 190.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007116
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

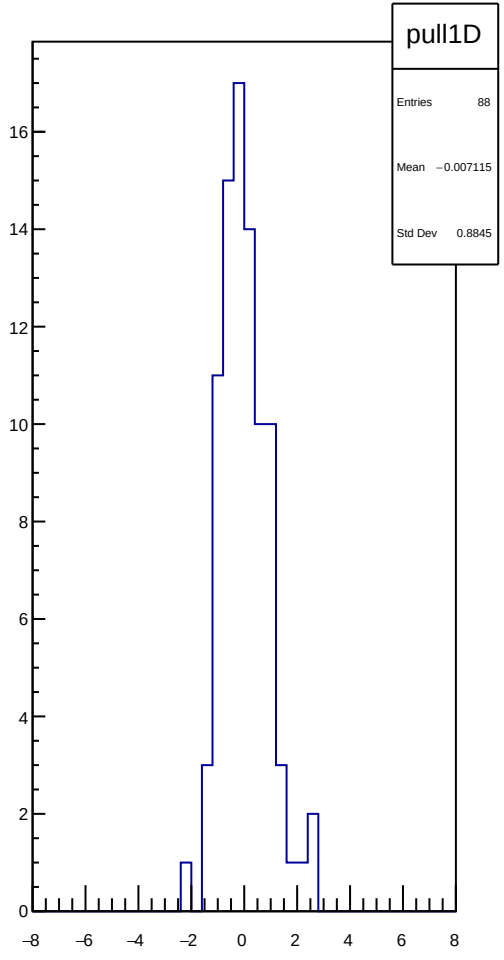

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 181.8 / 87
p0 1286 ± 0.9962
1340
1320
1300
1280
1260
1240

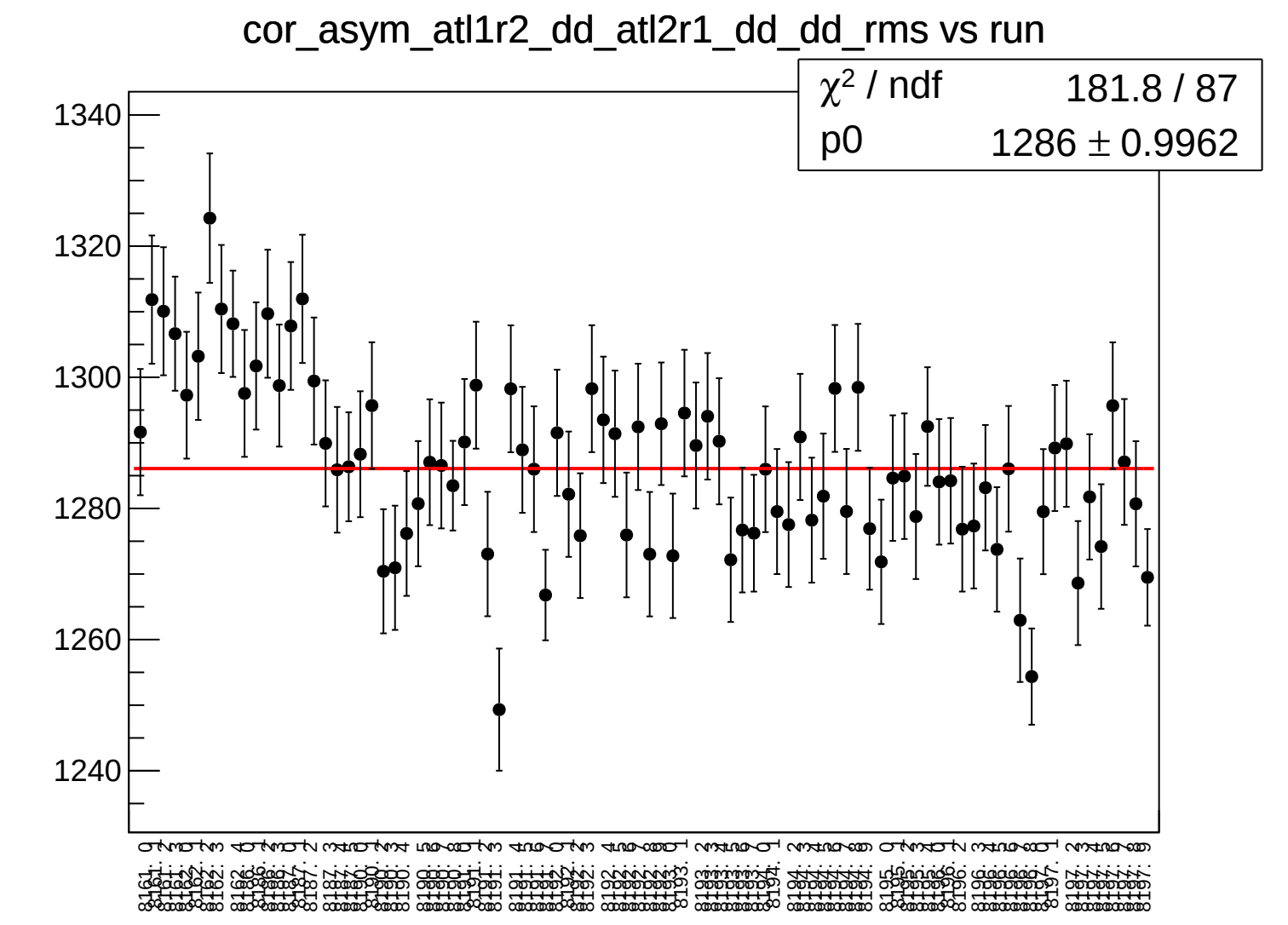

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.81 / 87
p0 −1613 ± 6160
200
100
0
−100
−200
pull
Entries 88
Mean −607.8
Std Dev 0
2
1
0
−1
−2

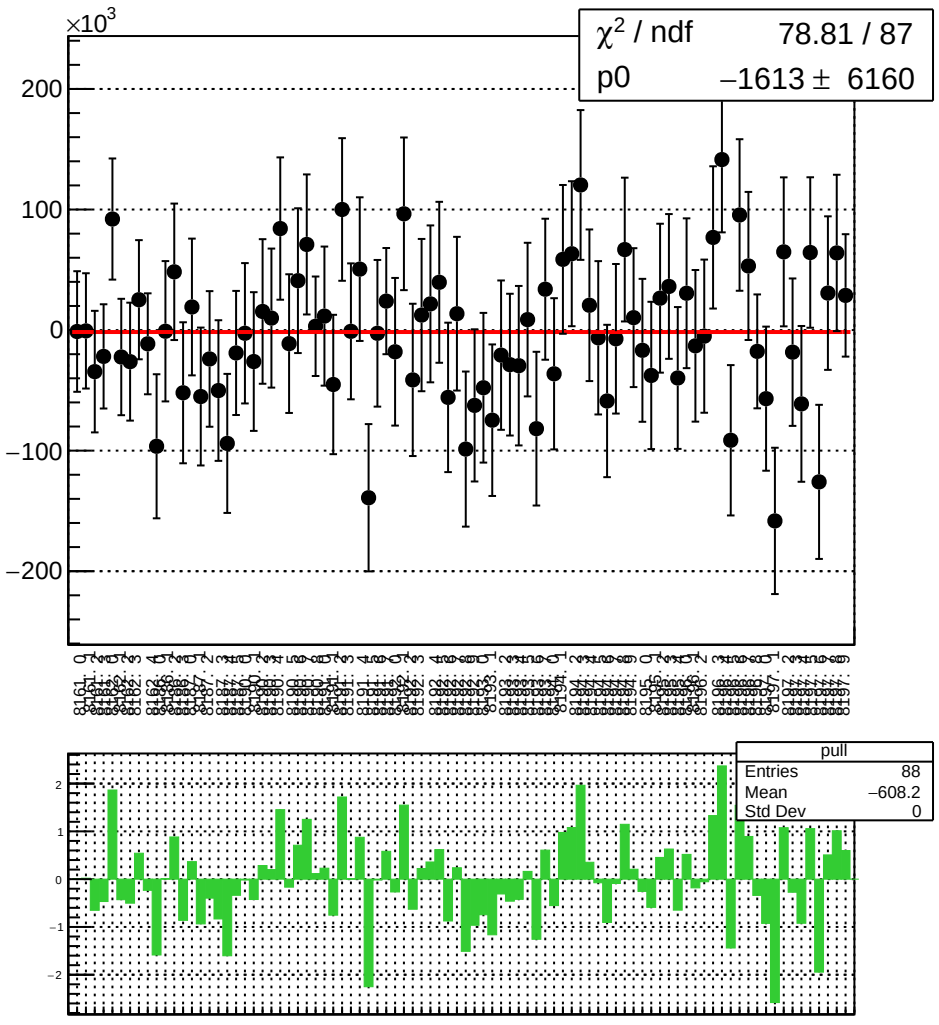

pull1D
Entries 88
Mean −0.002828
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

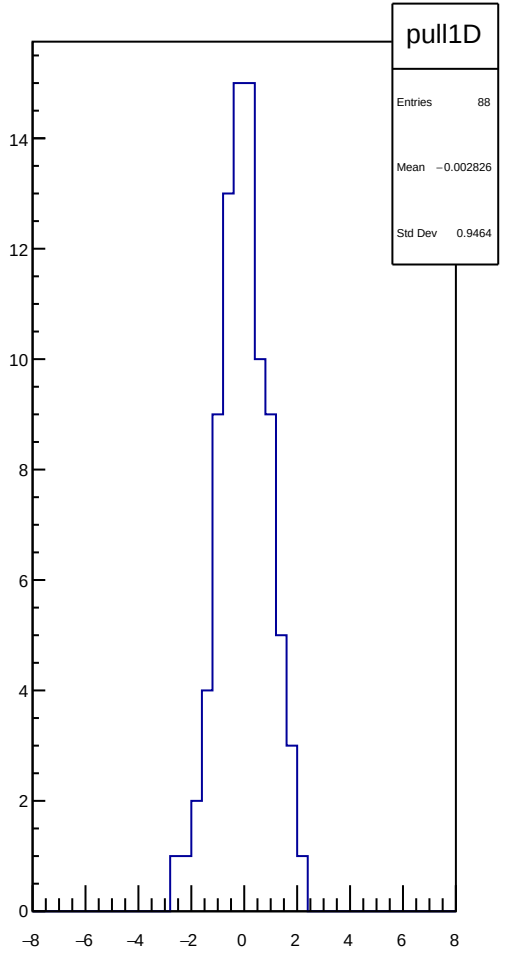

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.07e+04 / 87
p0 5605 ± 4.356
6500
6000
5500
5000
4500

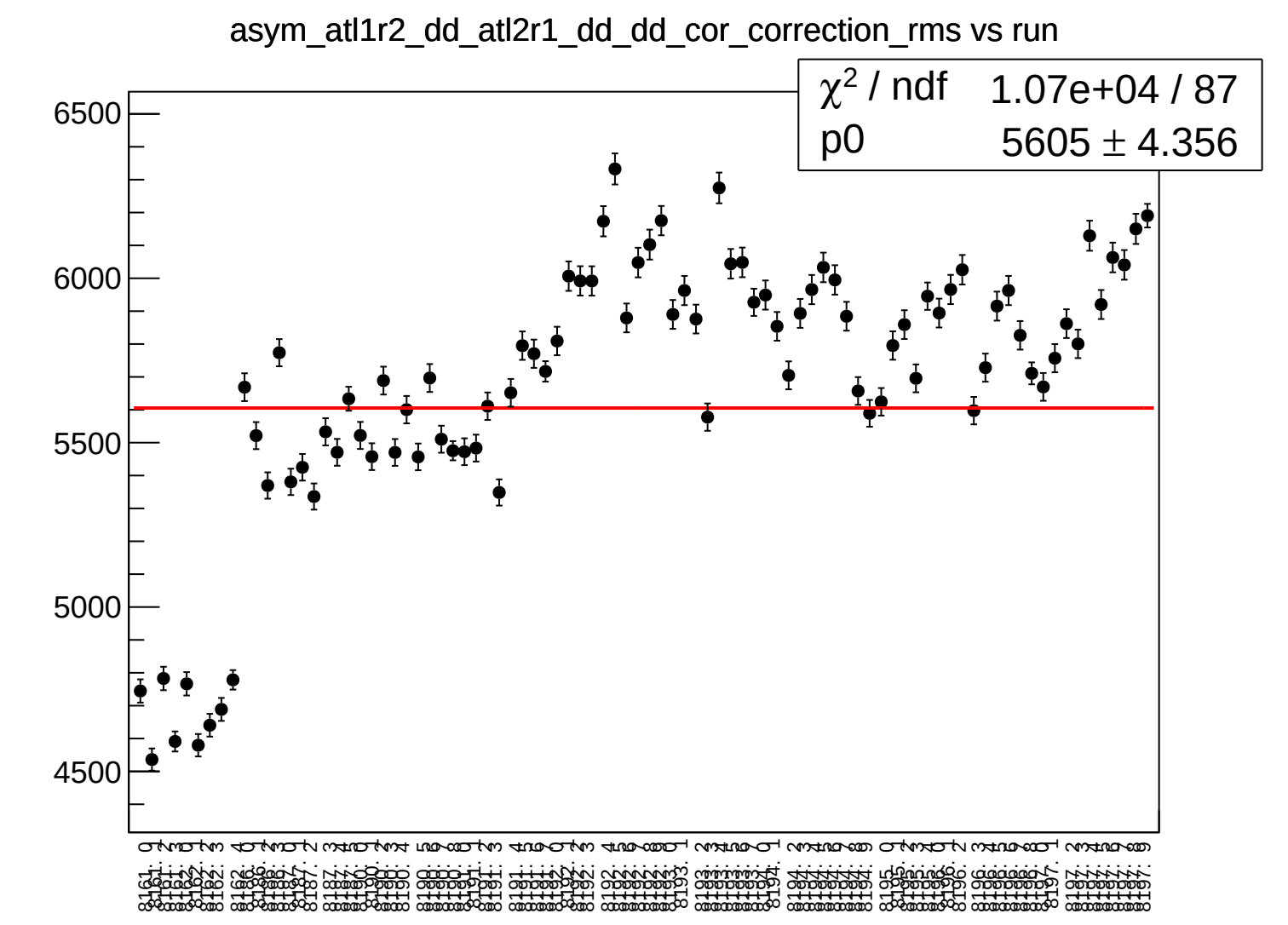

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 68.85 / 87
p0 2213 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 190.9
Std Dev 0
2
1
0
−1
−2

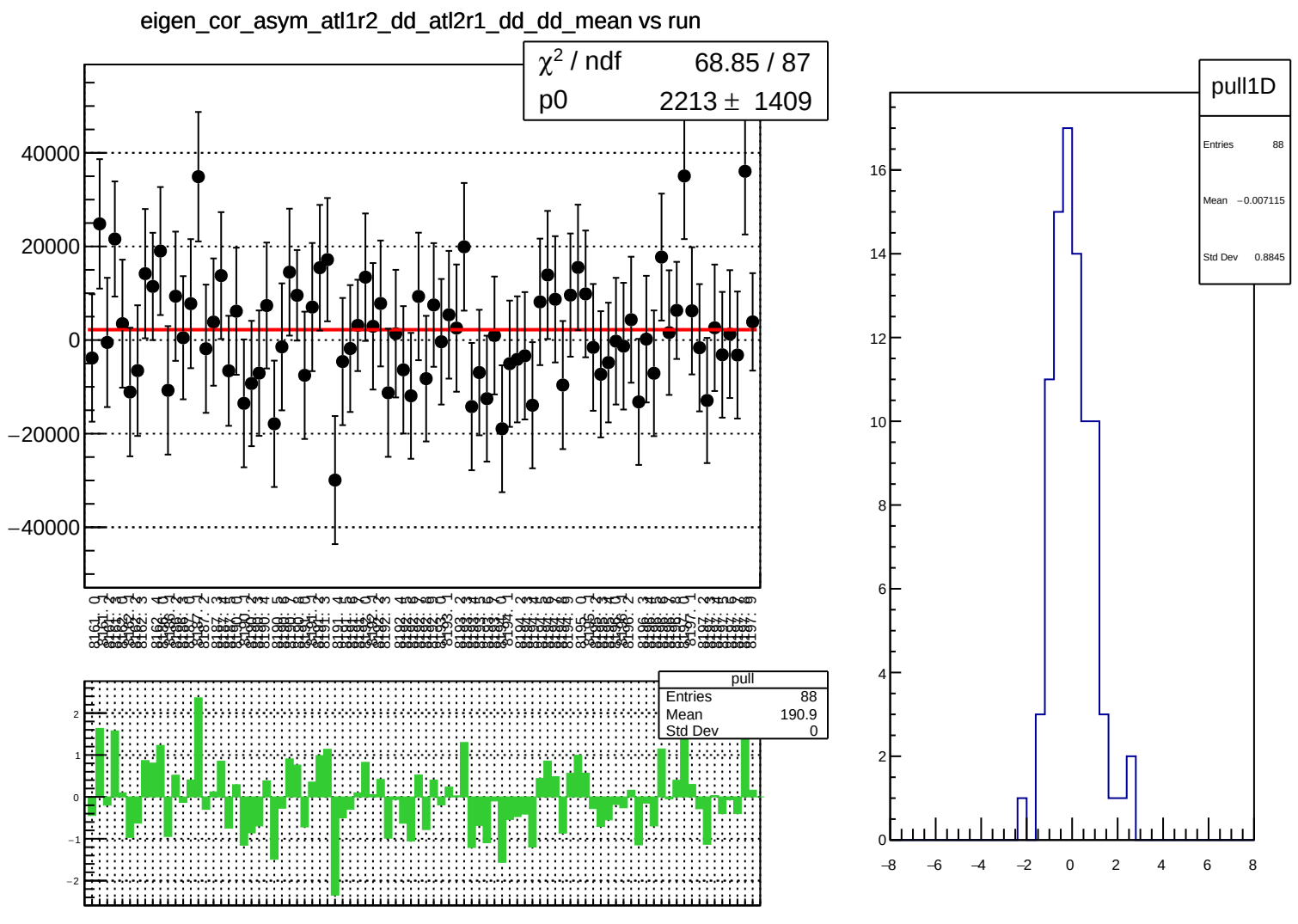

pull1D
Entries 88
Mean −0.007115
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

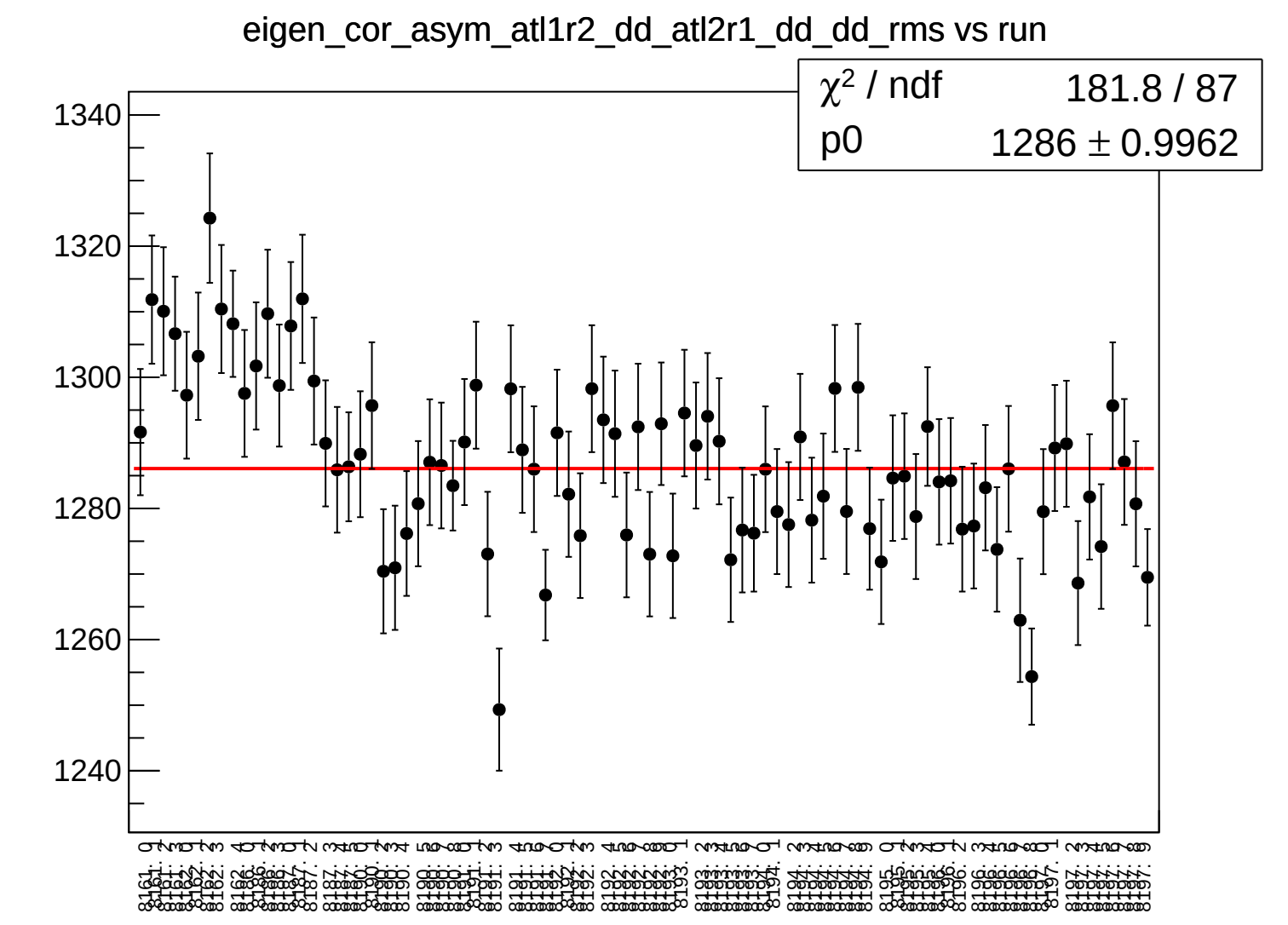

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 181.8 / 87
p0 1286 ± 0.9962
1340
1320
1300
1280
1260
1240

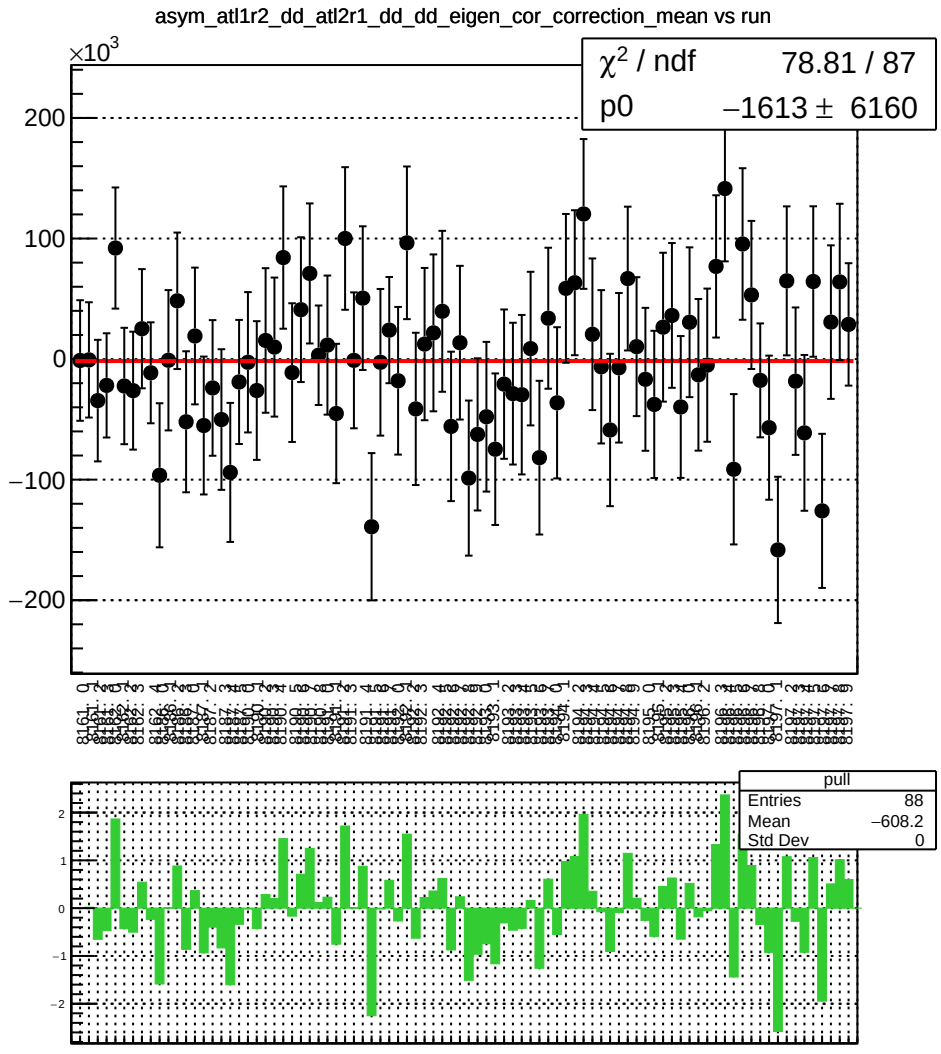

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.81 / 87
p0 −1613 ± 6160
200
100
0
−100
−200
pull
Entries 88
Mean −608.2
Std Dev 0
2
1
0
−1
−2

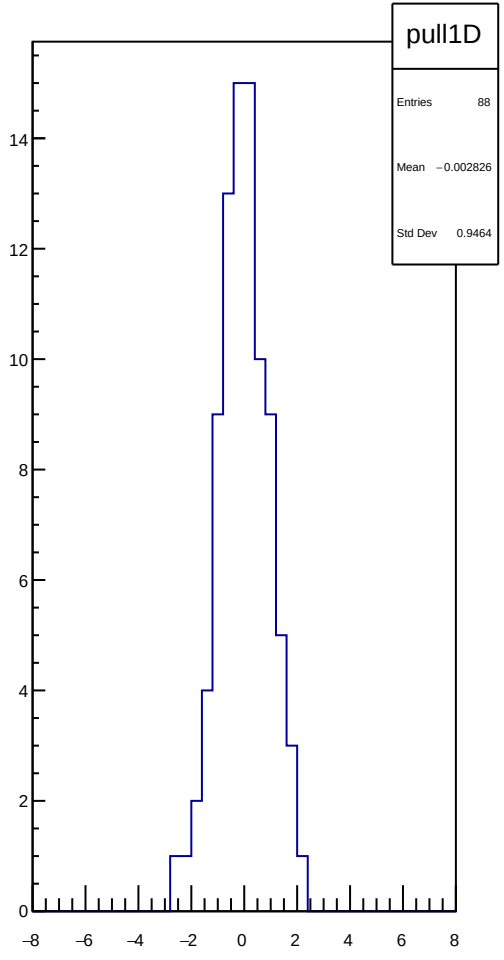

pull1D
Entries 88
Mean −0.002826
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

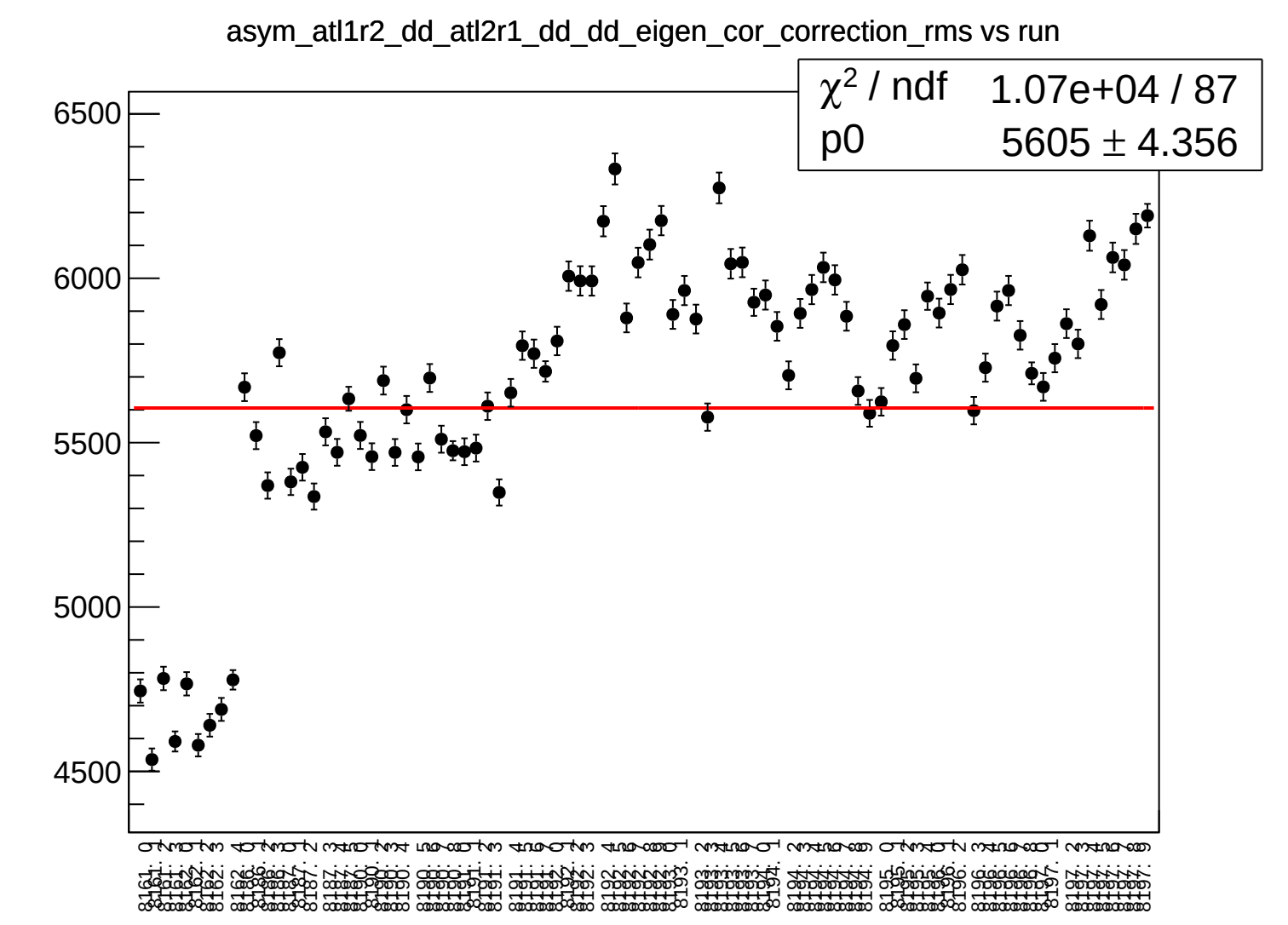

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 87
p0 5605 ± 4.356
6500
6000
5500
5000
4500

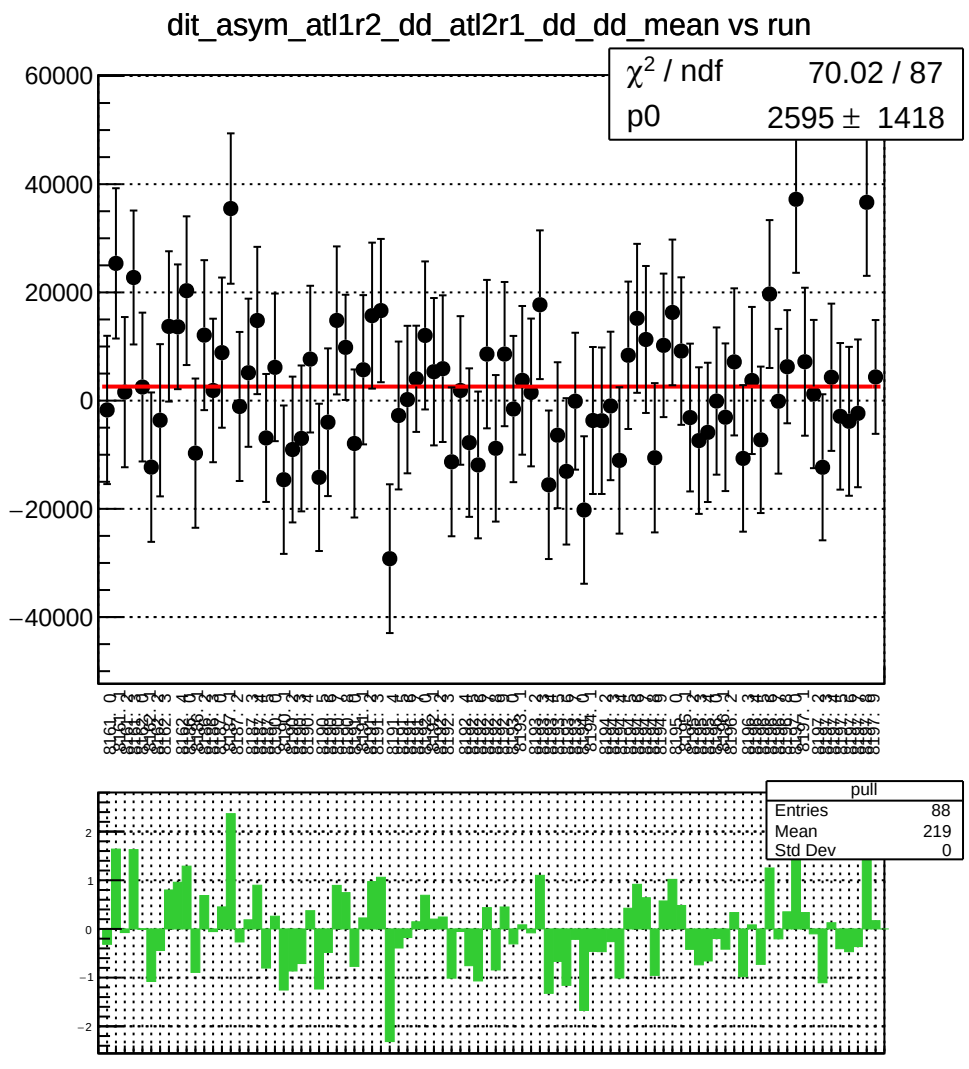

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 68.85 / 87
p0 2213 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 190.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007115
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

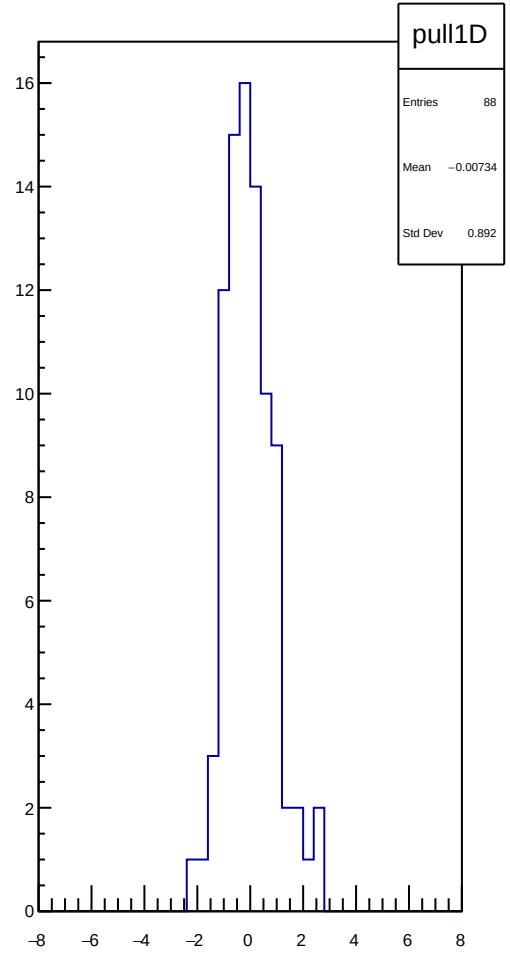

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 181.8 / 87
p0 1286 ± 0.9962
1340
1320
1300
1280
1260
1240

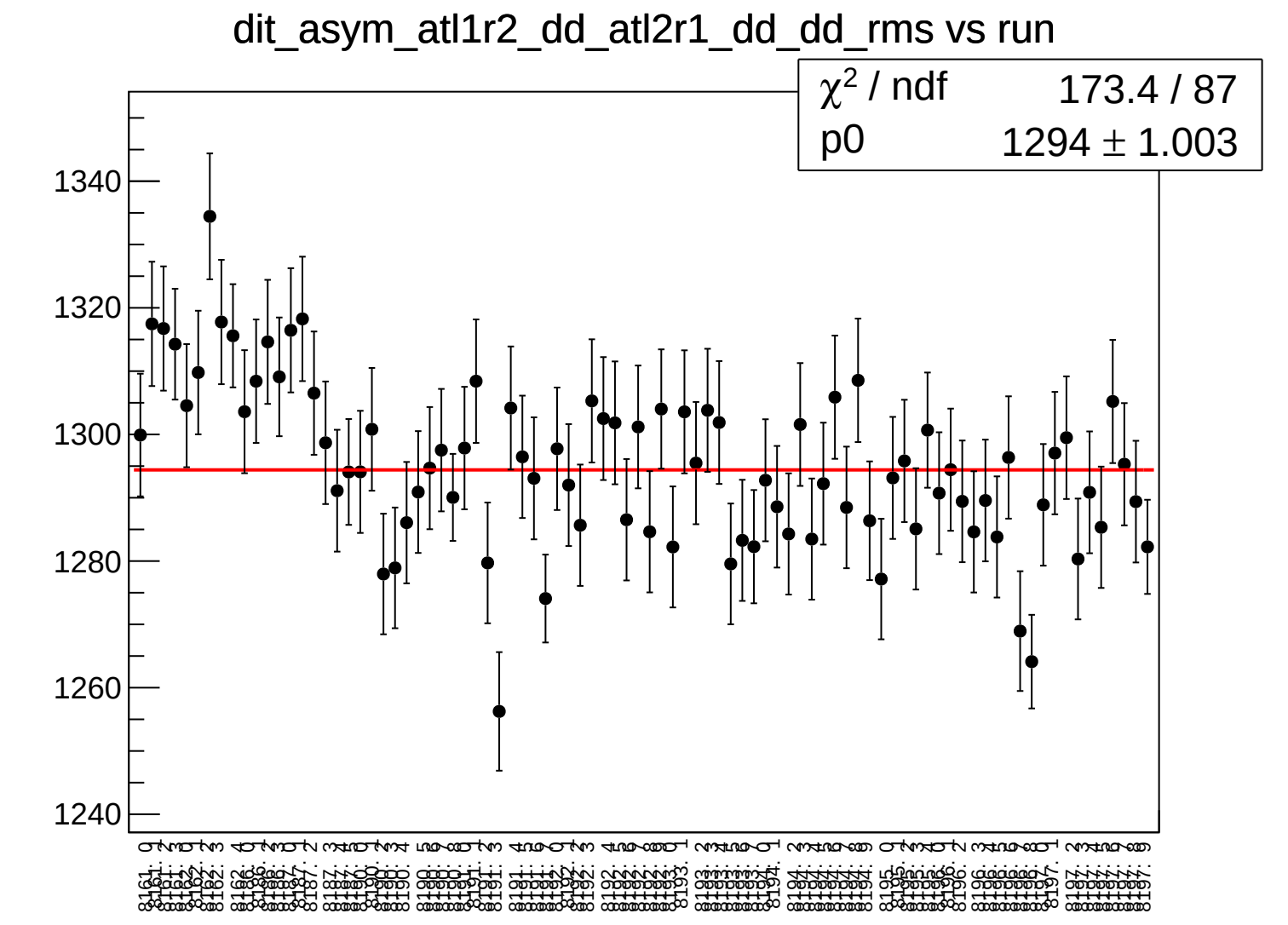

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.81 / 87
p0 −1613 ± 6160
200
100
0
−100
−200
pull
Entries 88
Mean −608.2
Std Dev 0
2
1
0
−1
−2

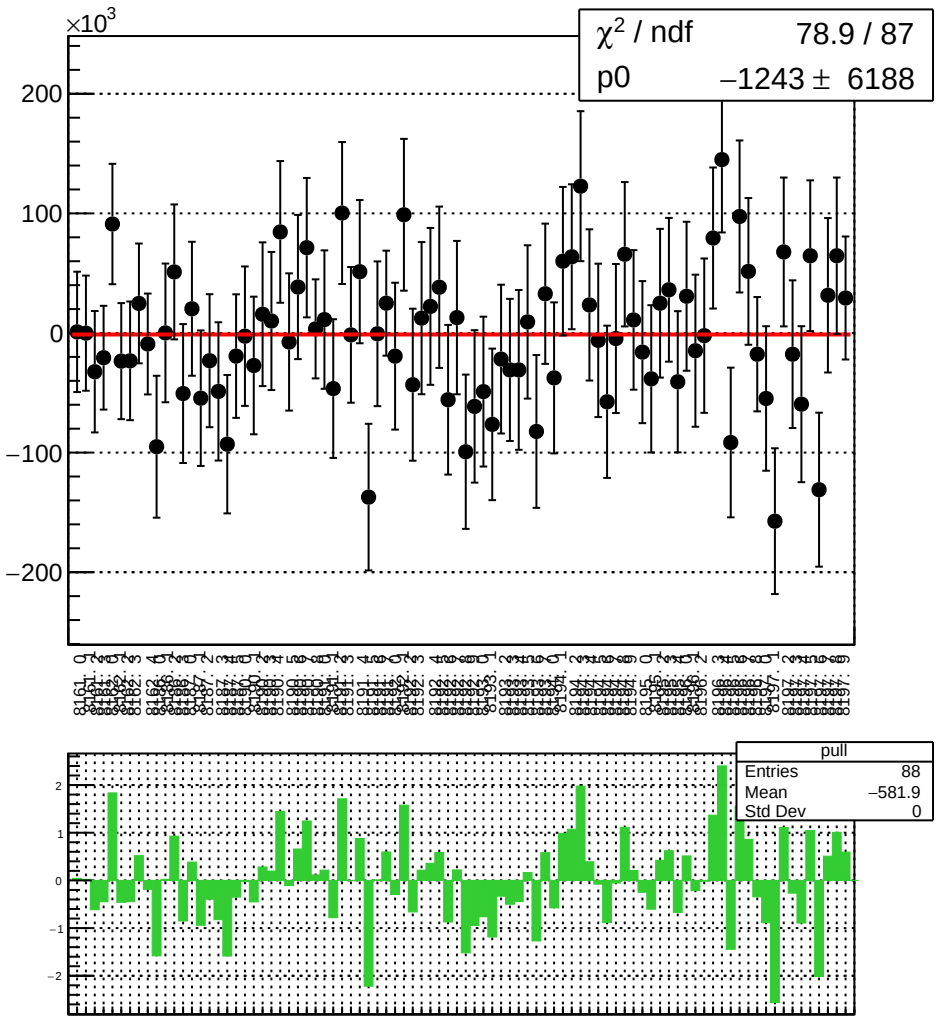

pull1D
Entries 88
Mean −0.002826
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

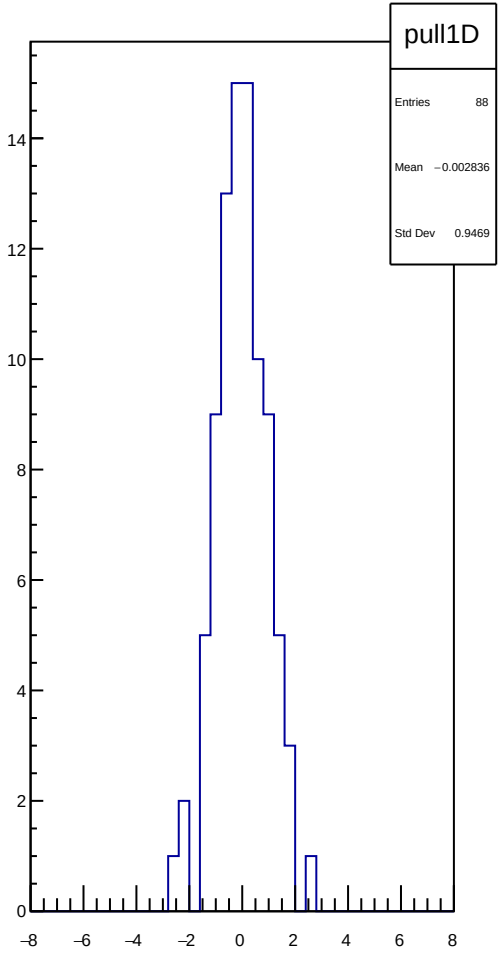

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 87
p0 5605 ± 4.356
6500
6000
5500
5000
4500

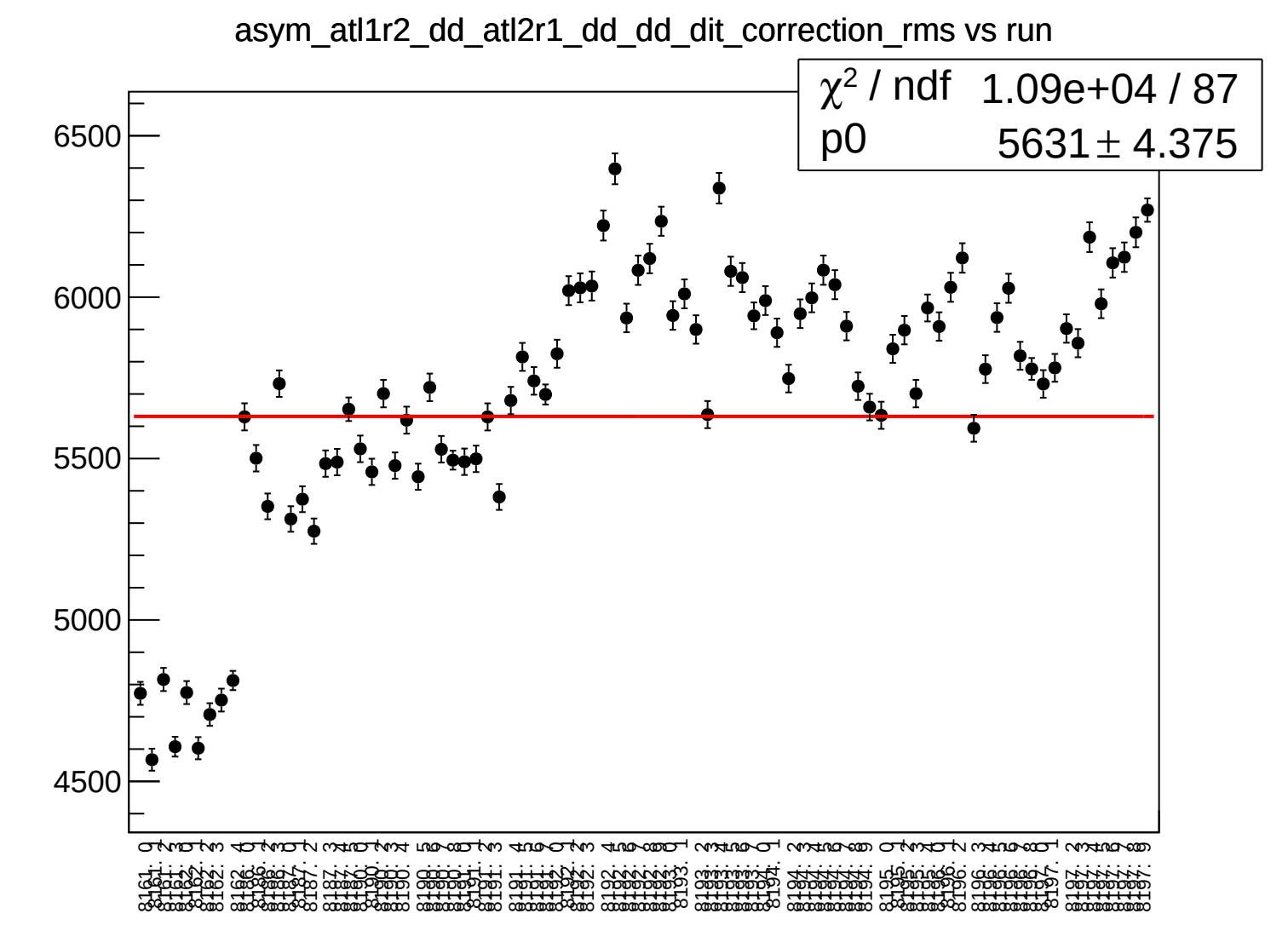

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 70.02 / 87
p0 2595 ± 1418
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 219
Std Dev 0
2
1
0
−1
−2

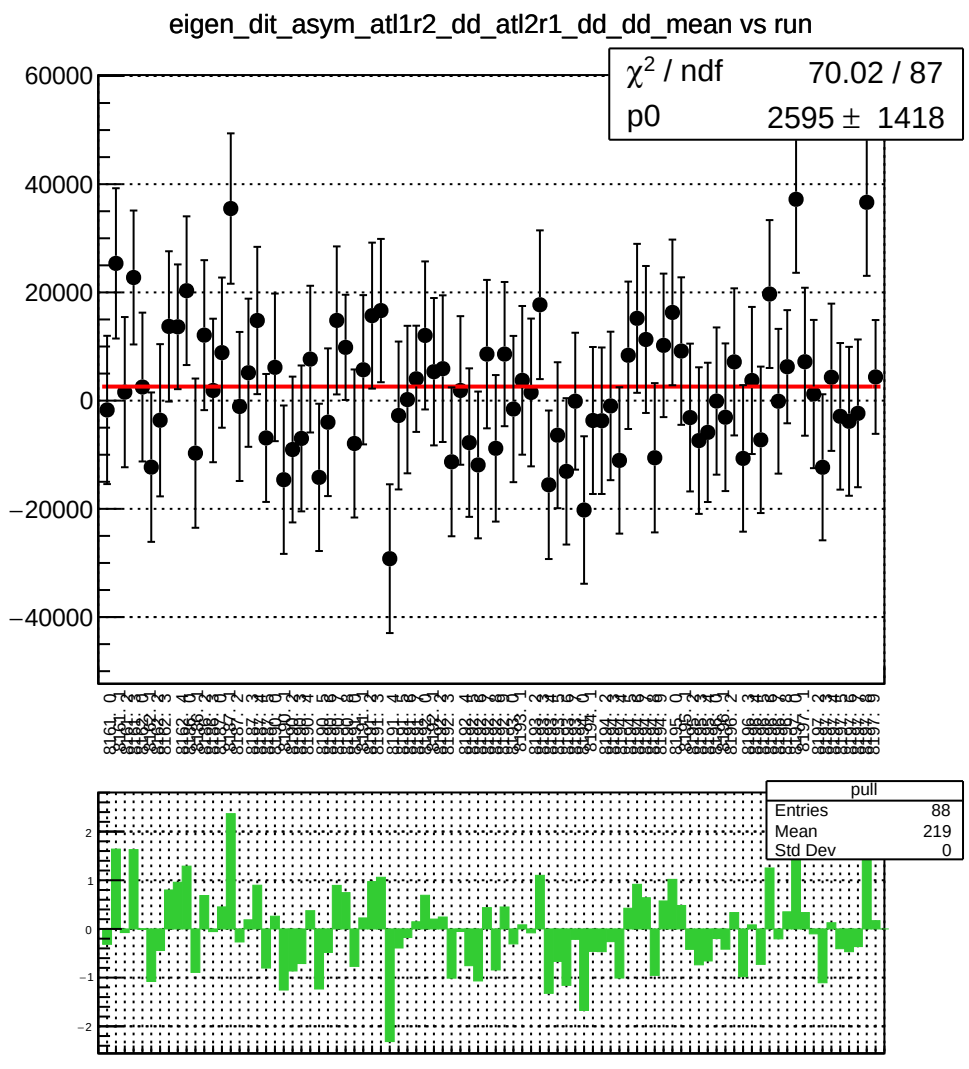

pull1D
Entries 88
Mean −0.00734
Std Dev 0.892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

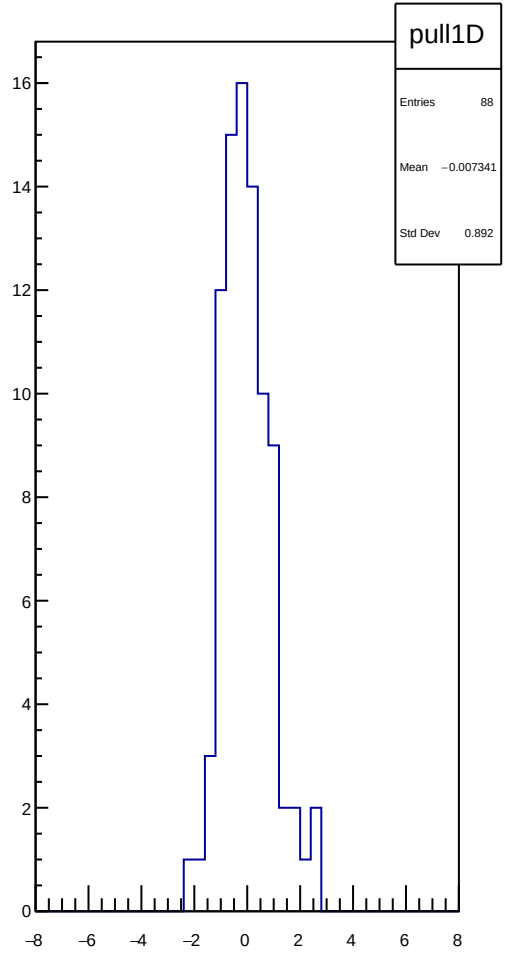

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 173.4 / 87
p0 1294 ± 1.003
1340
1320
1300
1280
1260
1240

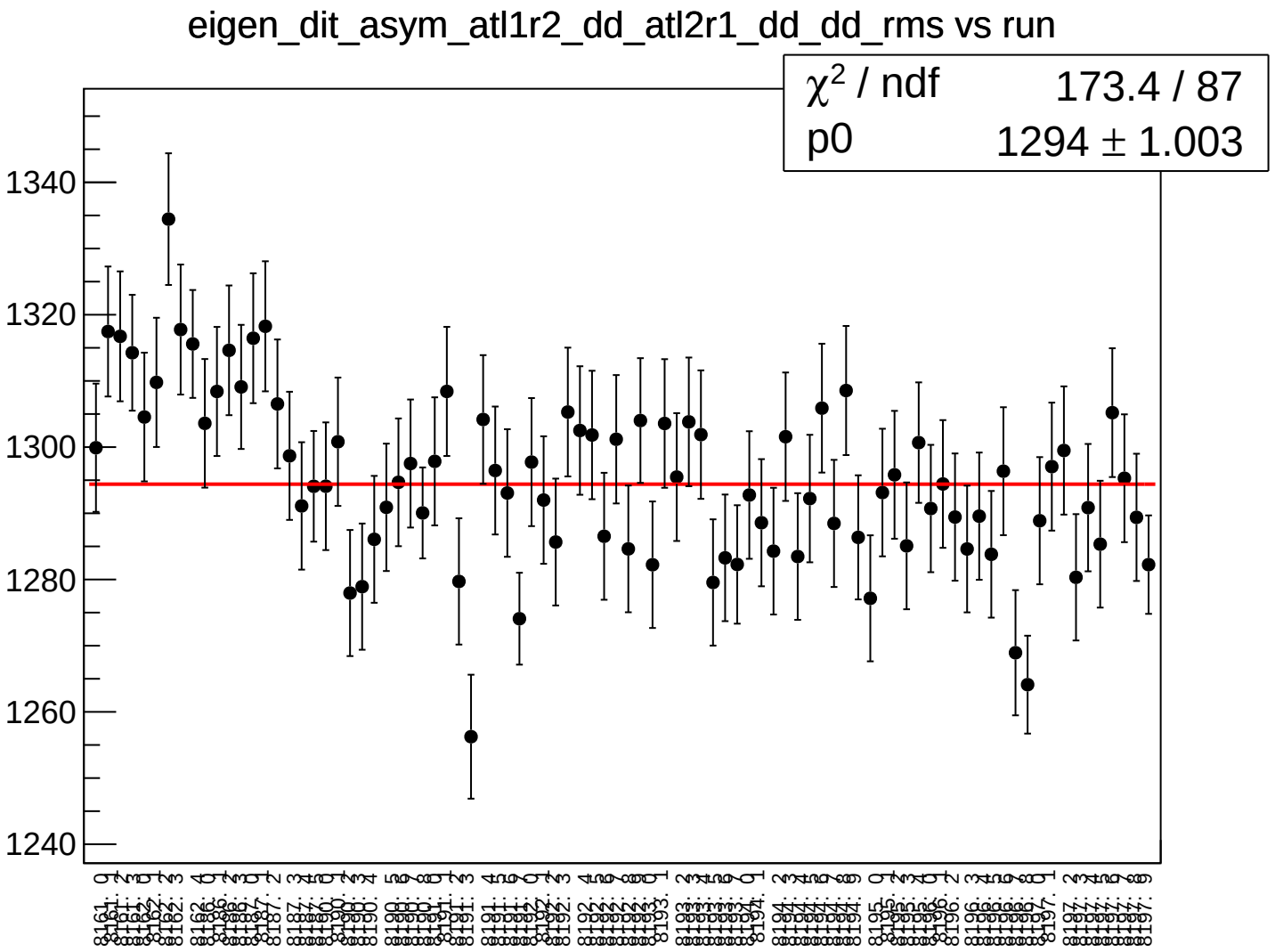

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 78.9 / 87
p0 −1243 ± 6188
200
100
0
−100
−200
pull
Entries 88
Mean −581.9
Std Dev 0
2
1
0
−1
−2

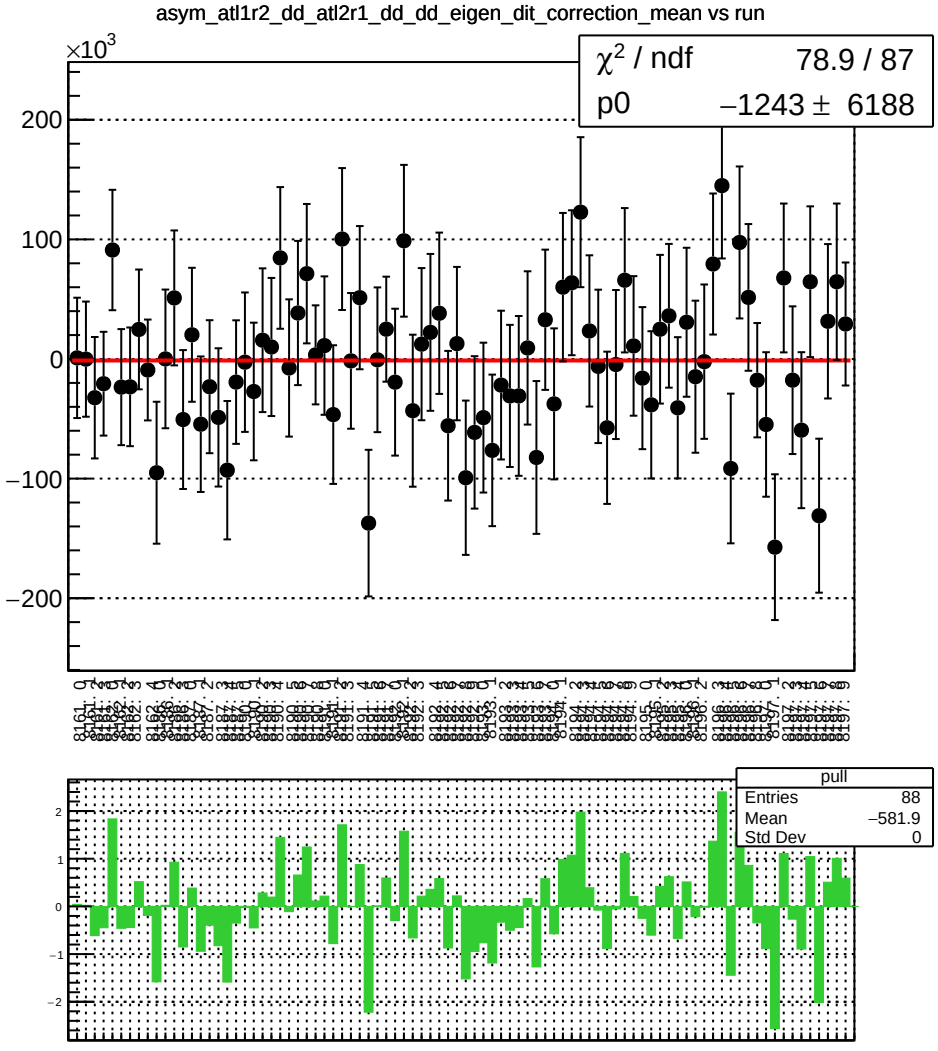

pull1D
Entries 88
Mean −0.002836
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

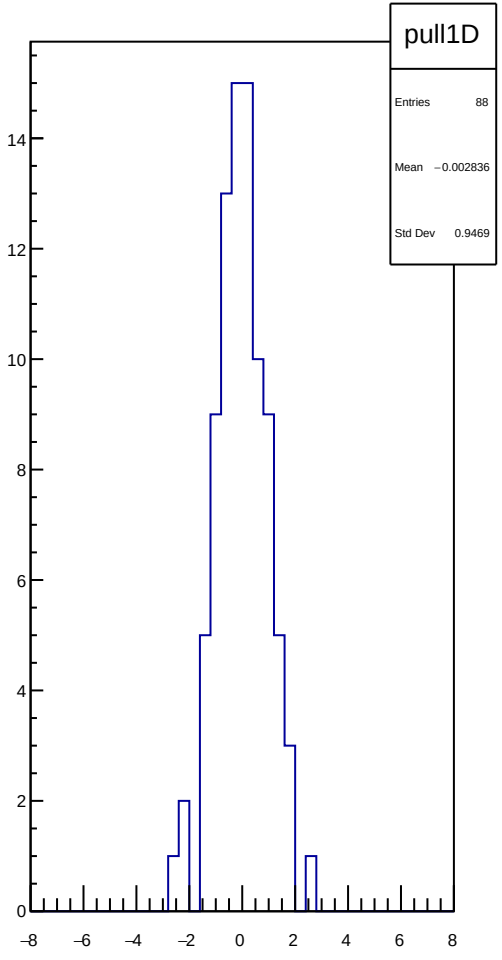

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.09e+04 / 87
p0 5631 ± 4.375
6500
6000
5500
5000
4500

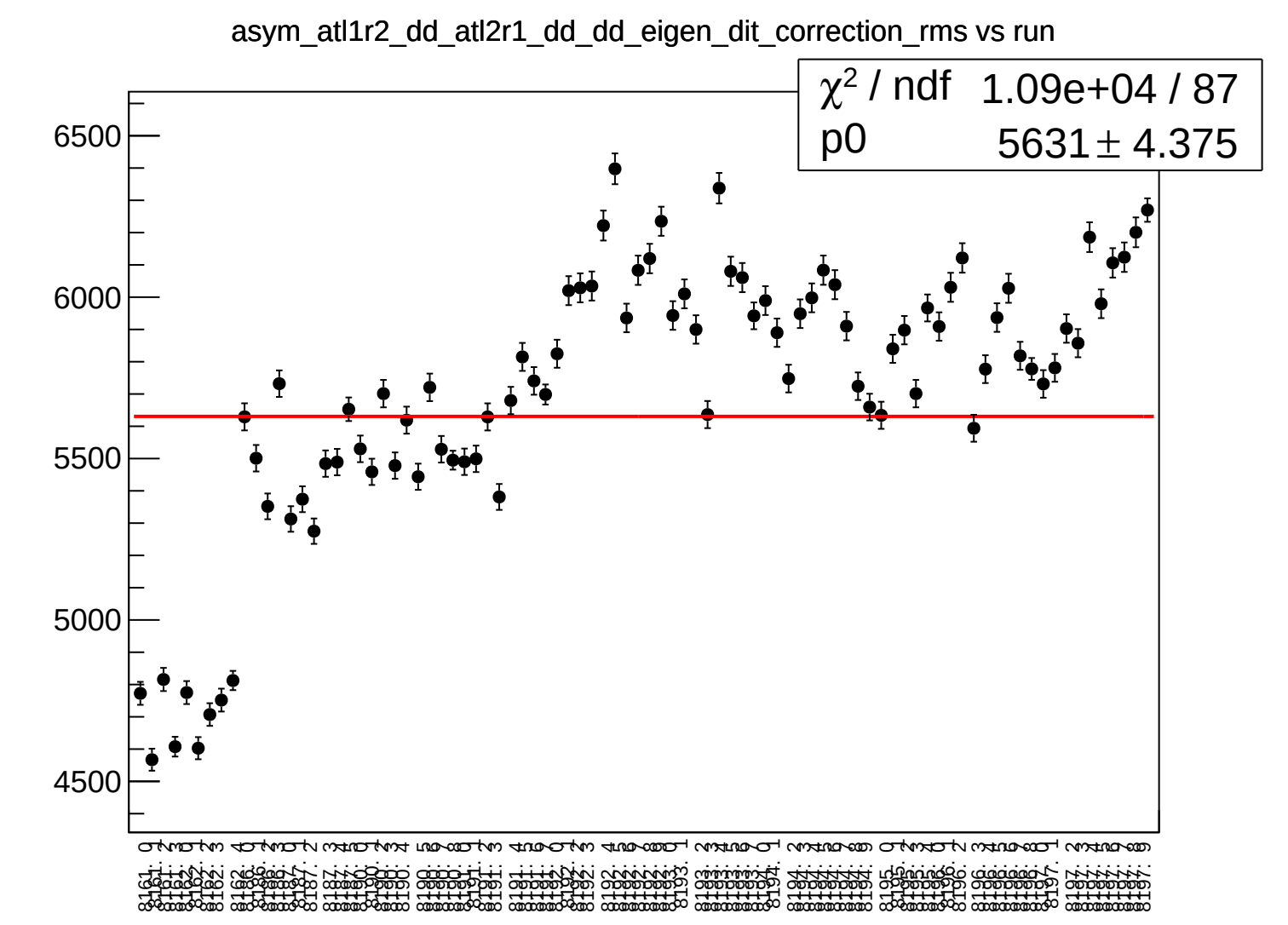

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 70.02 / 87
p0 2595 ± 1418
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 219
Std Dev 0
2
1
0
−1
−2

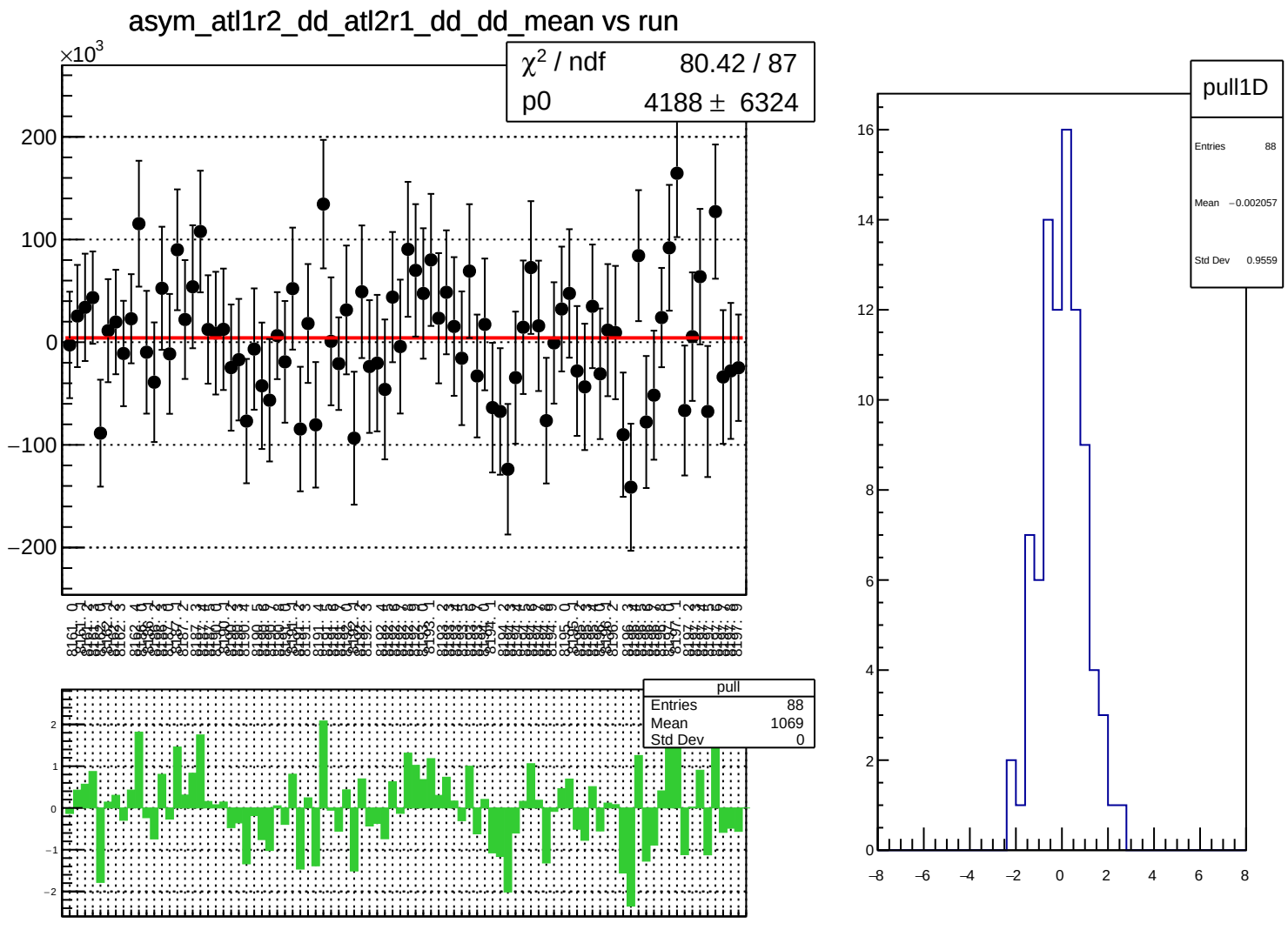

pull1D
Entries 88
Mean −0.007341
Std Dev 0.892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

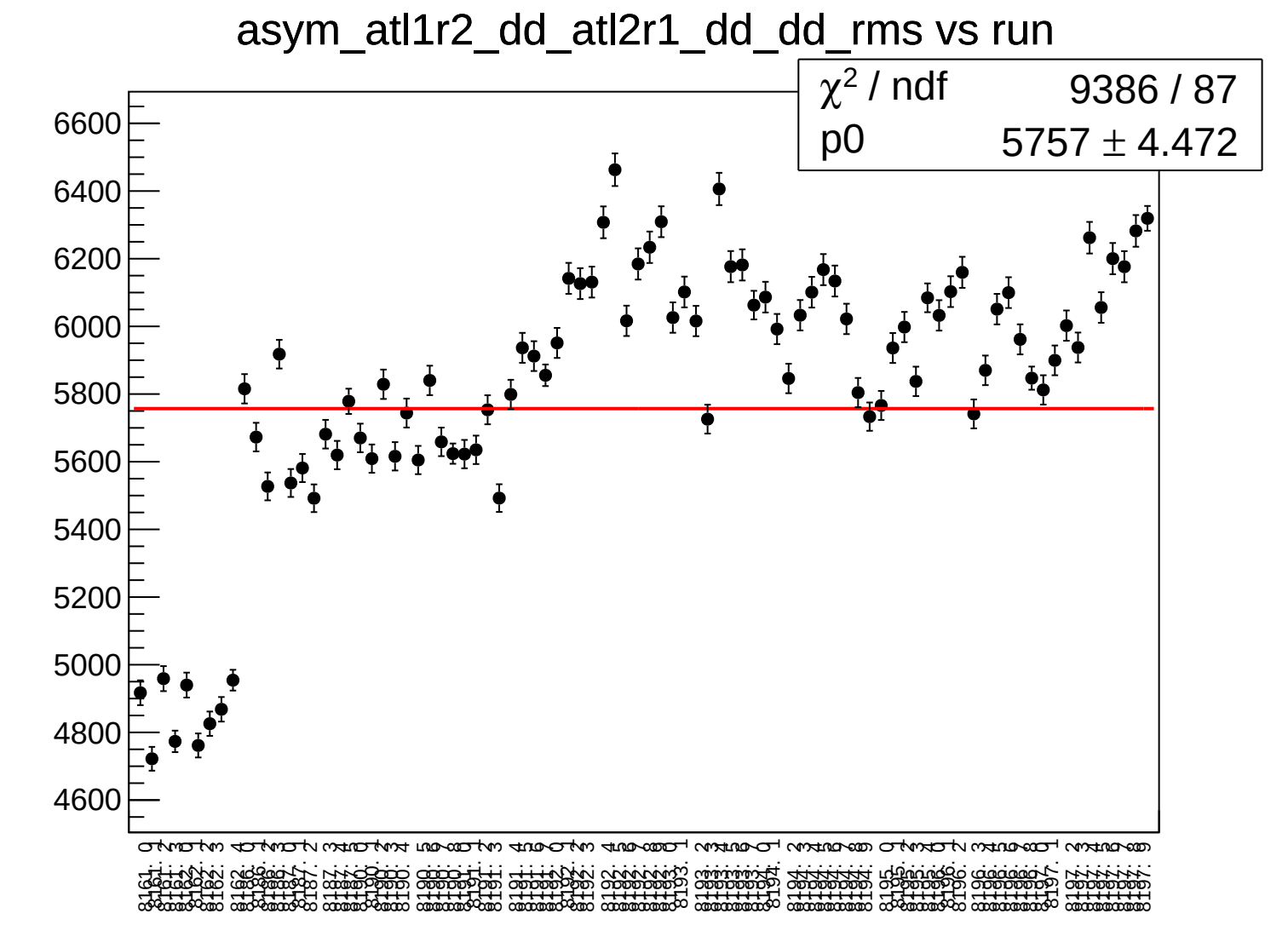

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 173.4 / 87
p0 1294 ± 1.003
1340
1320
1300
1280
1260
1240

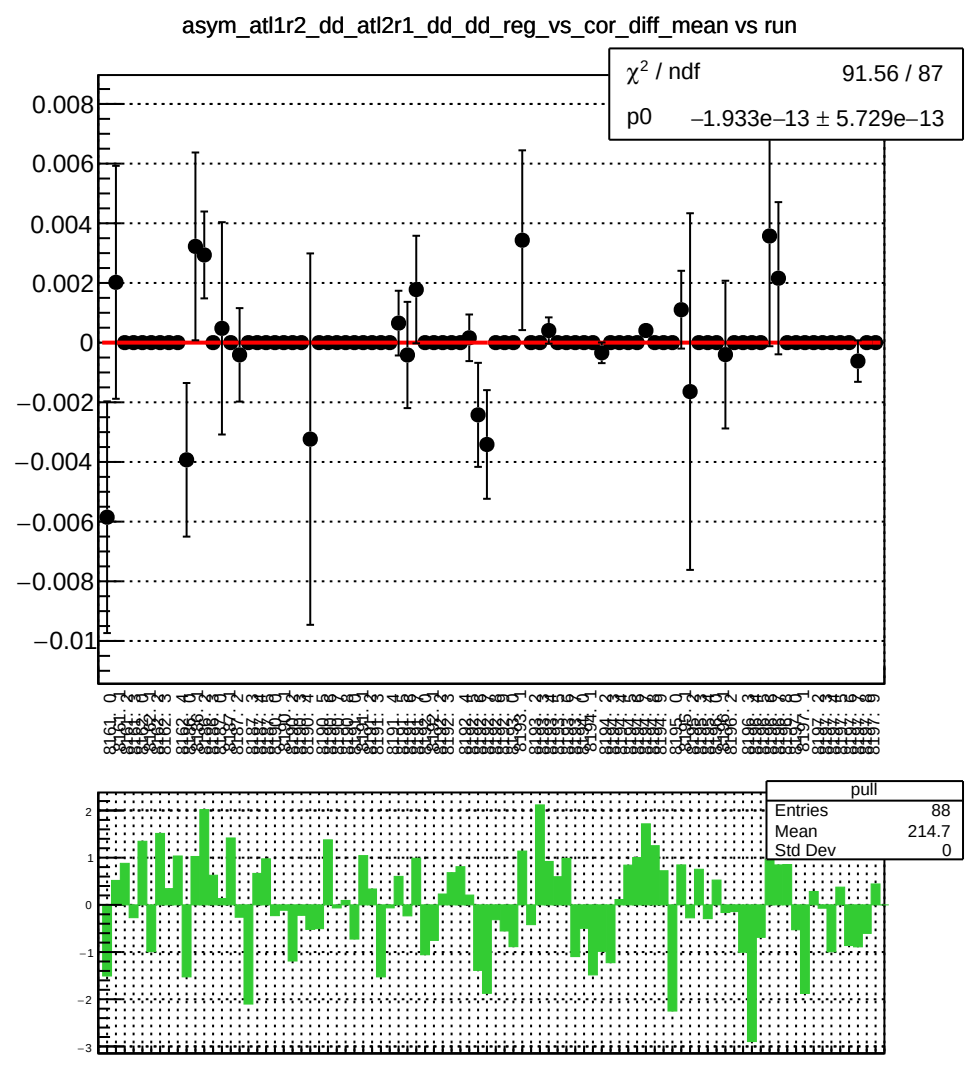

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.9 / 87
p0 −1243 ± 6188
200
100
0
−100
−200
pull
Entries 88
Mean −581.9
Std Dev 0
2
1
0
−1
−2

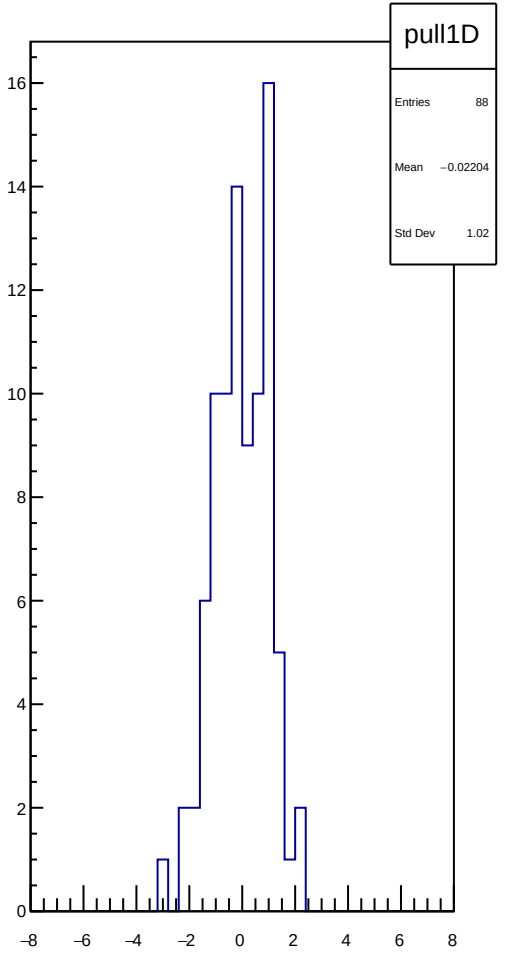

pull1D
Entries 88
Mean −0.002836
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

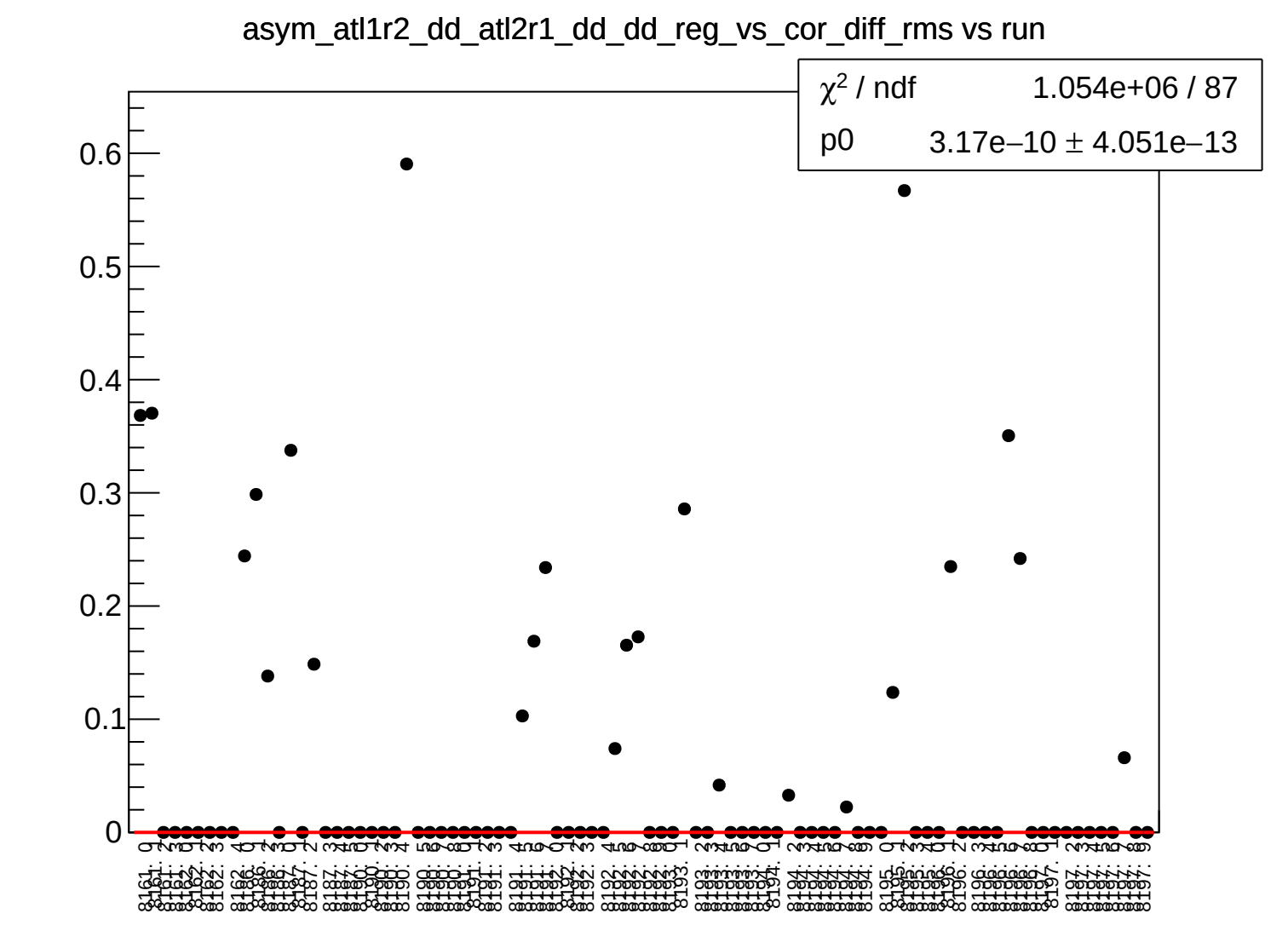

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.09e+04 / 87
p0 5631 ± 4.375
6500
6000
5500
5000
4500

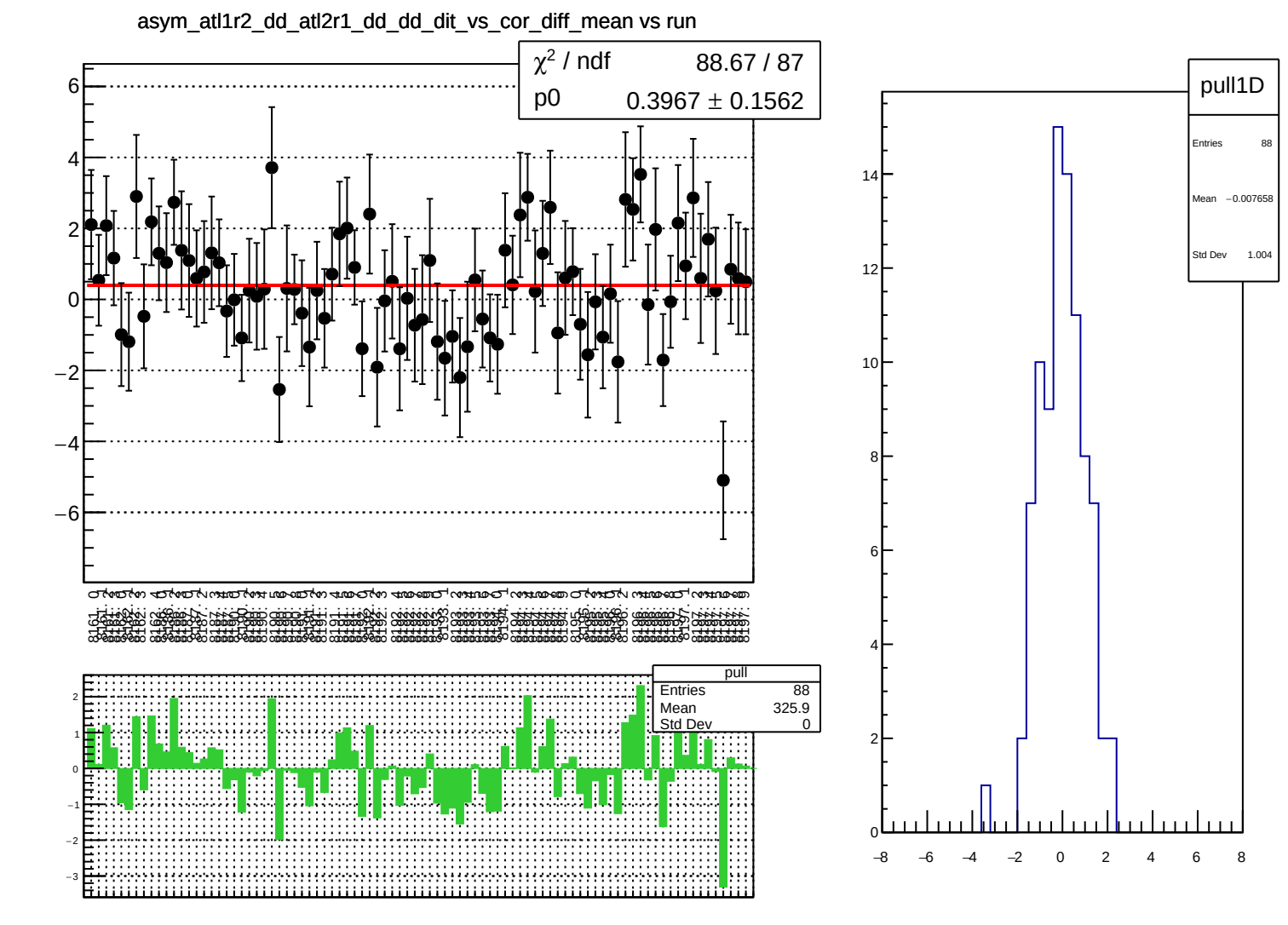

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 80.42 / 87
p0 4188 ± 6324
200
100
0
−100
−200
pull
Entries 88
Mean 1069
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.002057
Std Dev 0.9559
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

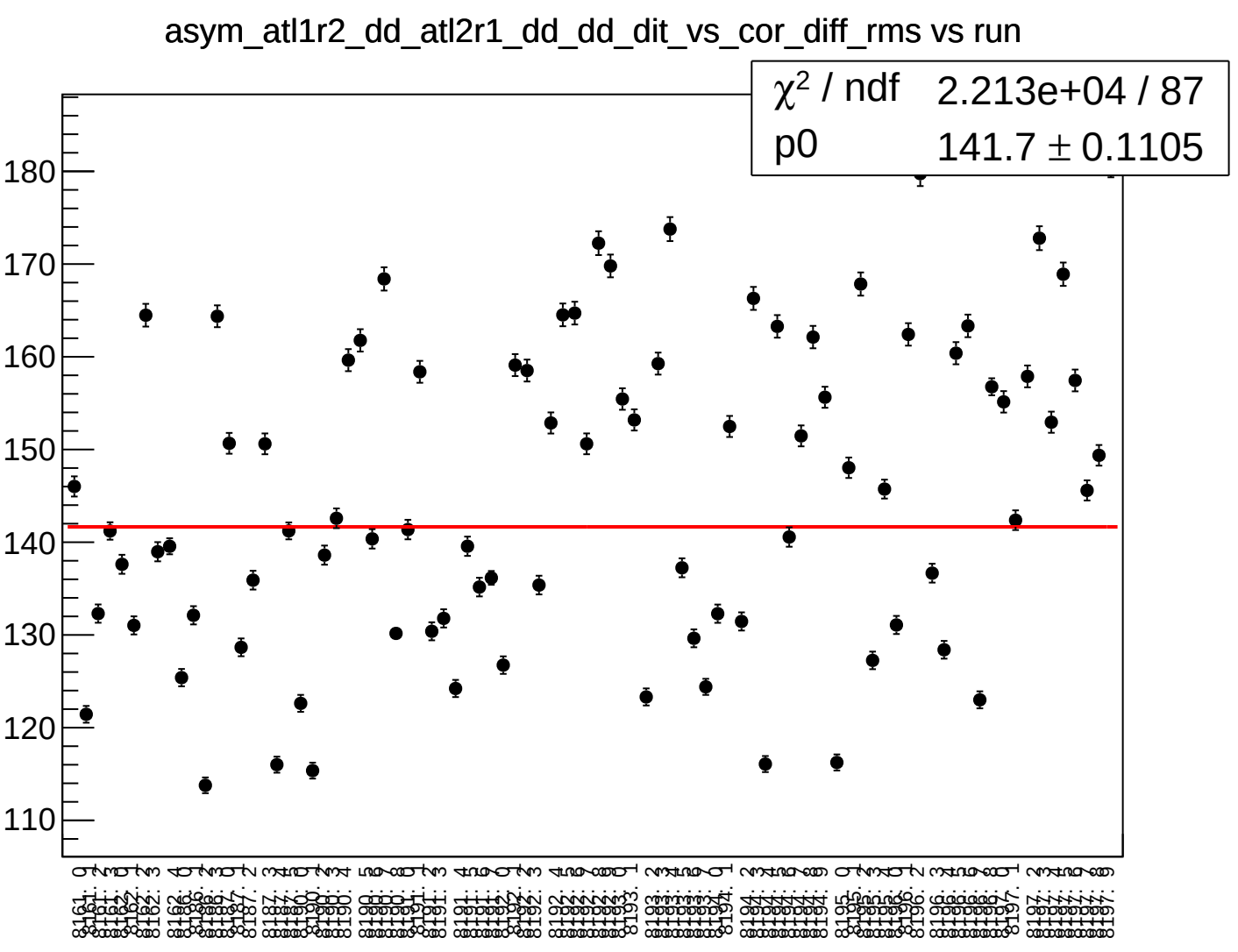

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 9386 / 87
p0 5757 ± 4.472
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

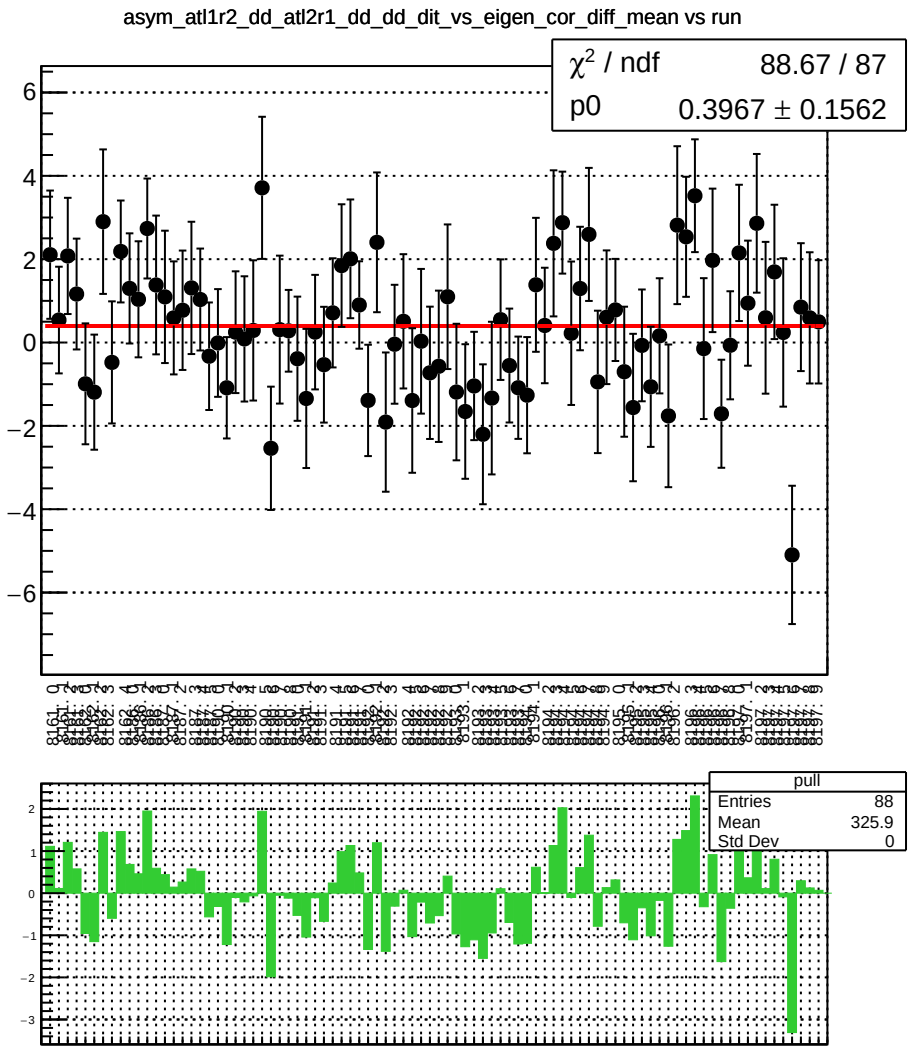

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 87
p0 −1.933e−13 ± 5.729e−13
pull
Entries 88
Mean 214.7
Std Dev 0

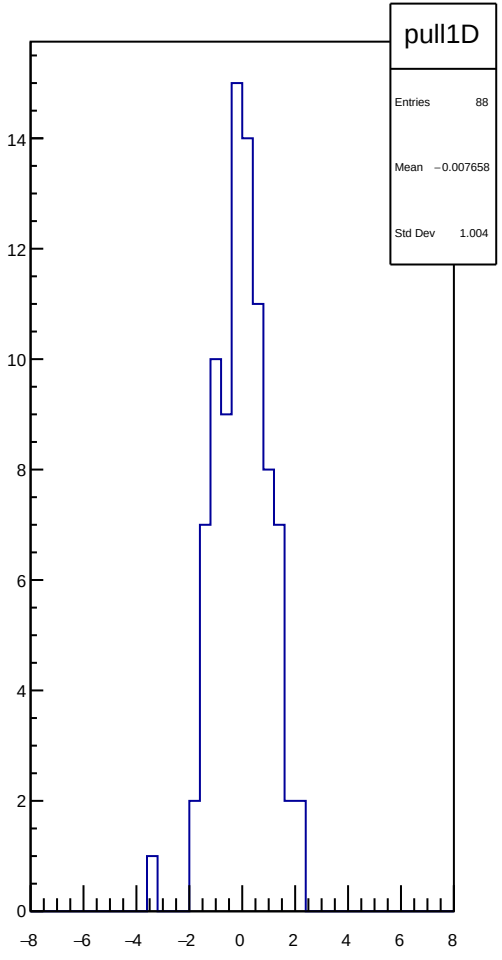

pull1D
Entries 88
Mean −0.02204
Std Dev 1.02

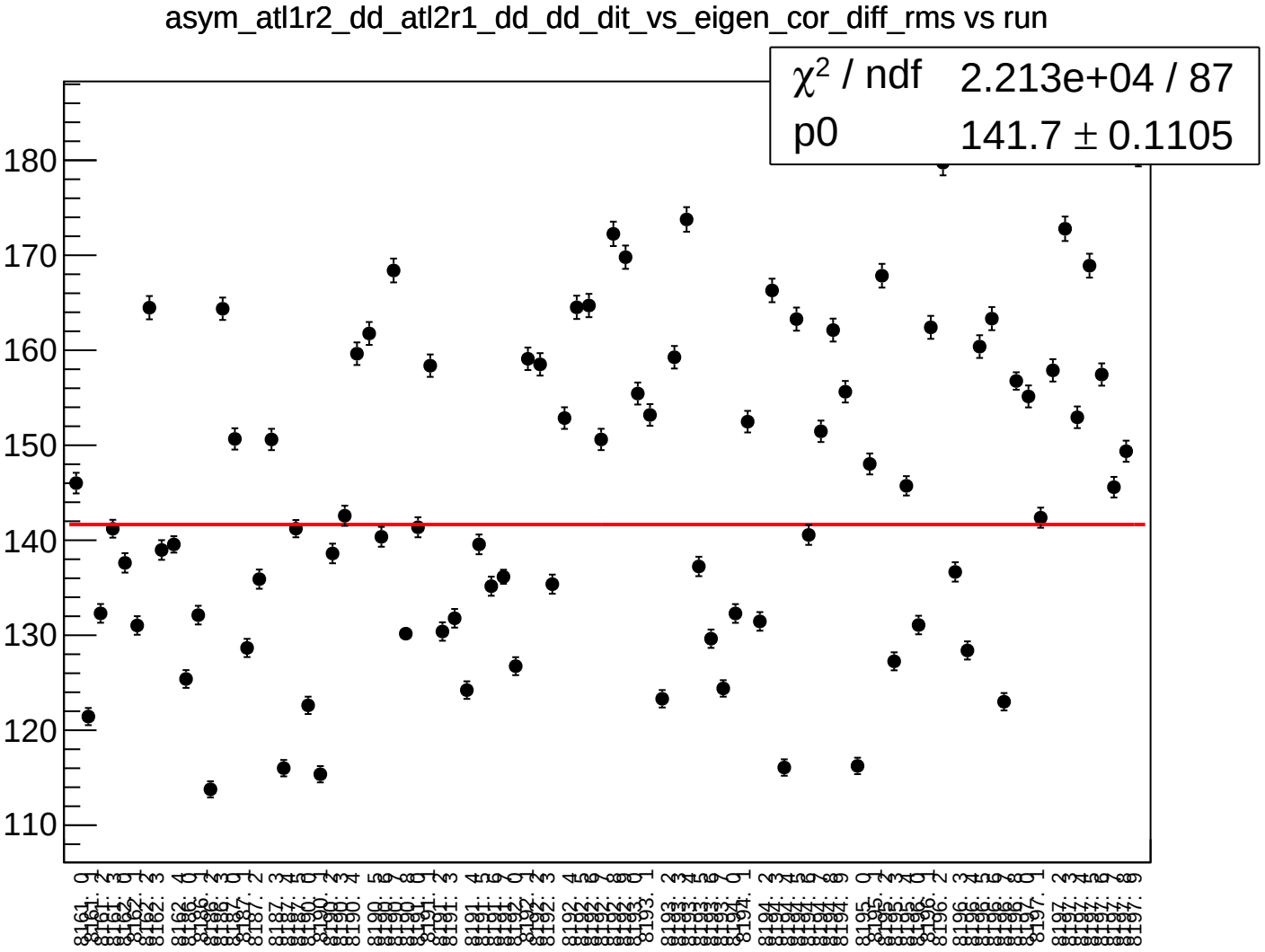

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.054e+06 / 87
p0 3.17e−10 ± 4.051e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

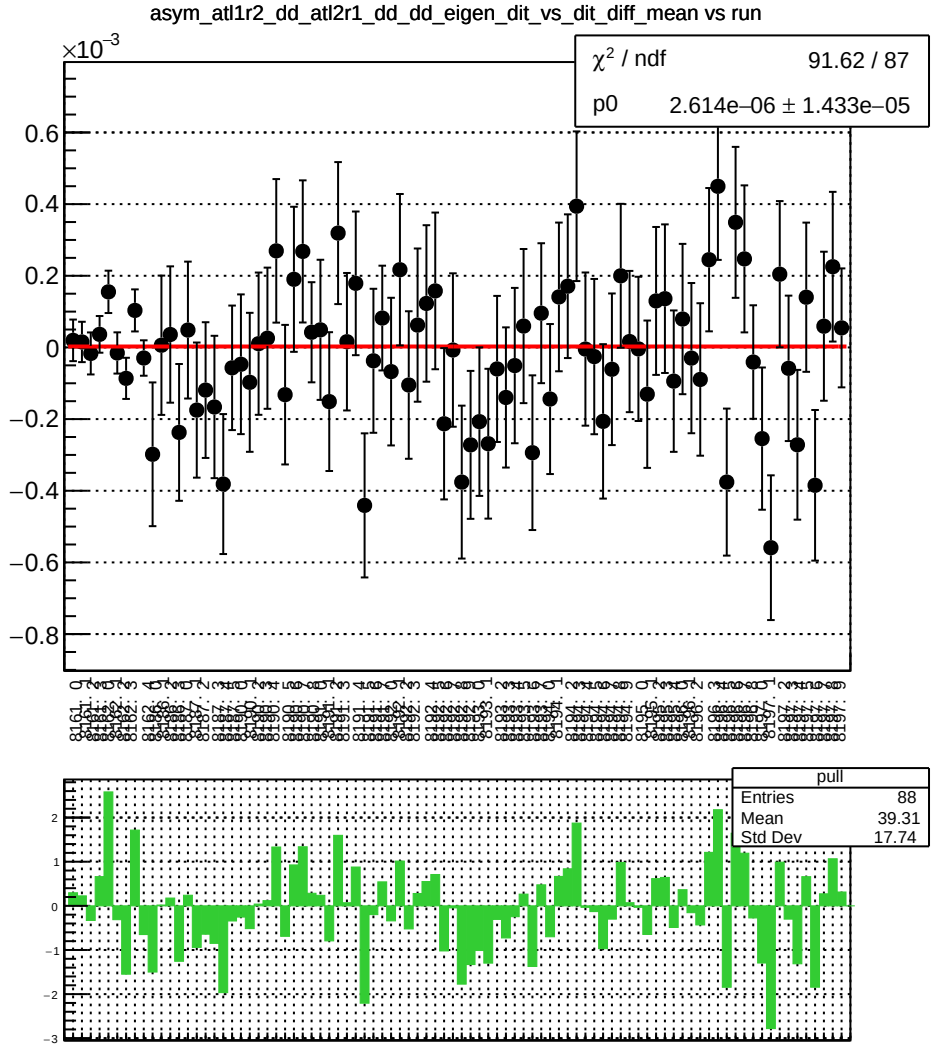

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.67 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.9
Std Dev 0
pull1D
Entries 88
Mean −0.007658
Std Dev 1.004

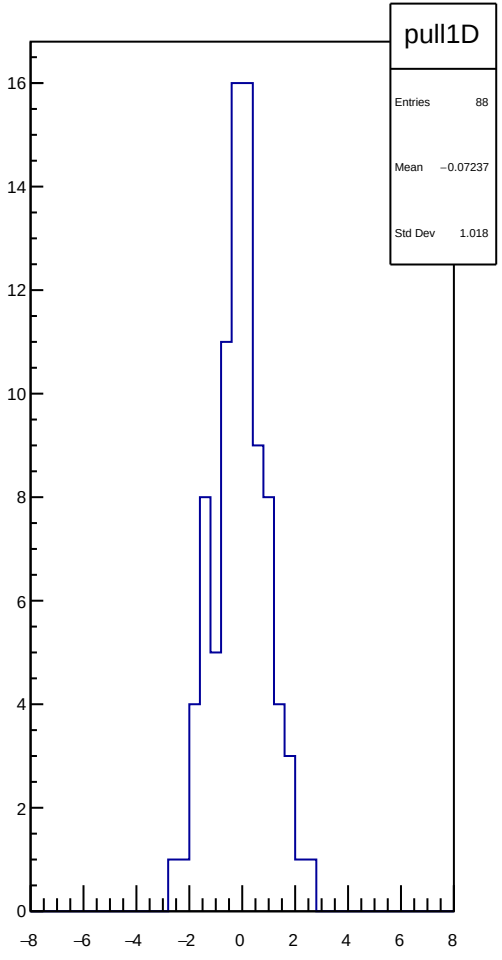

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

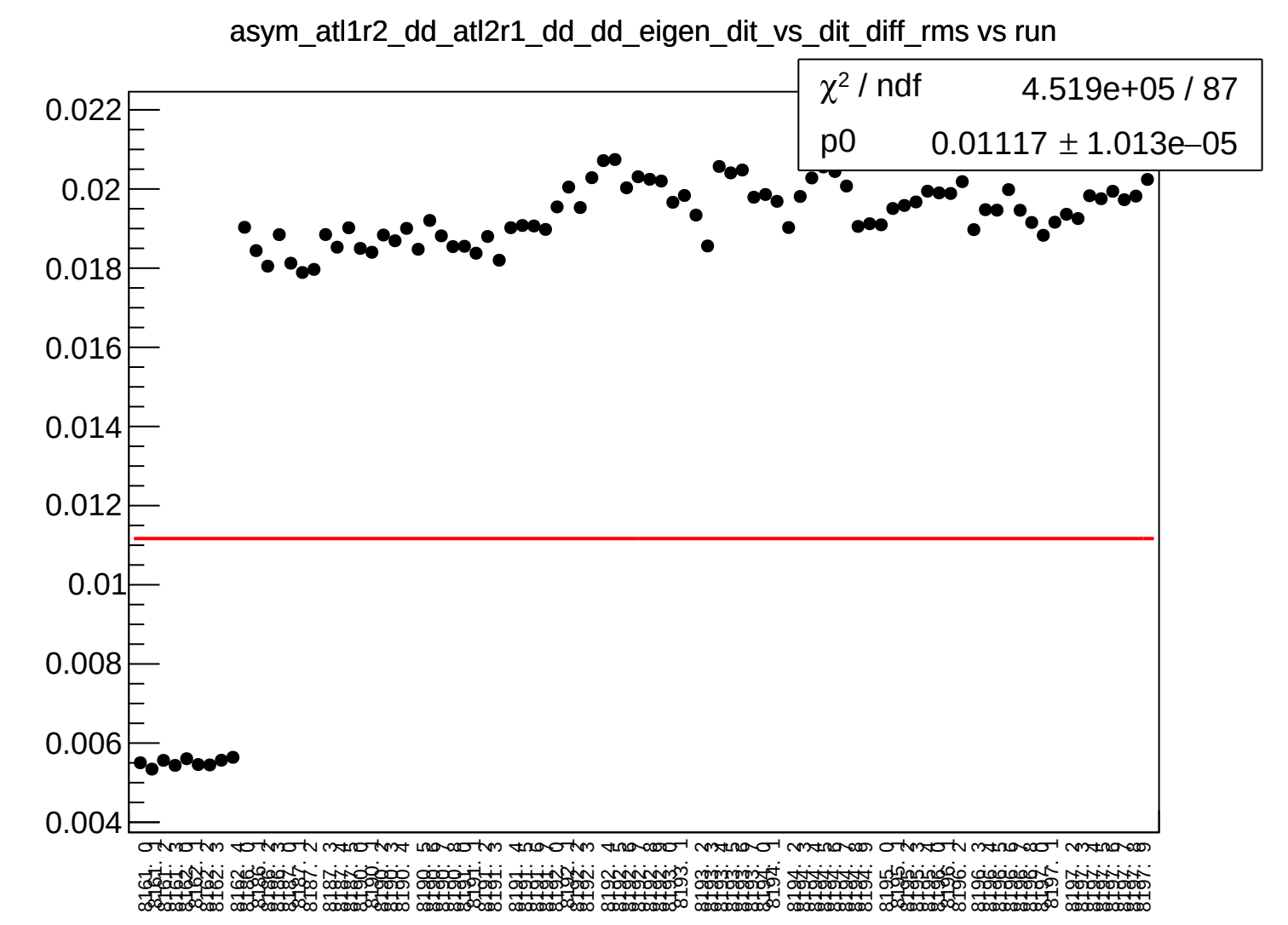

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.67 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.9
Std Dev 0

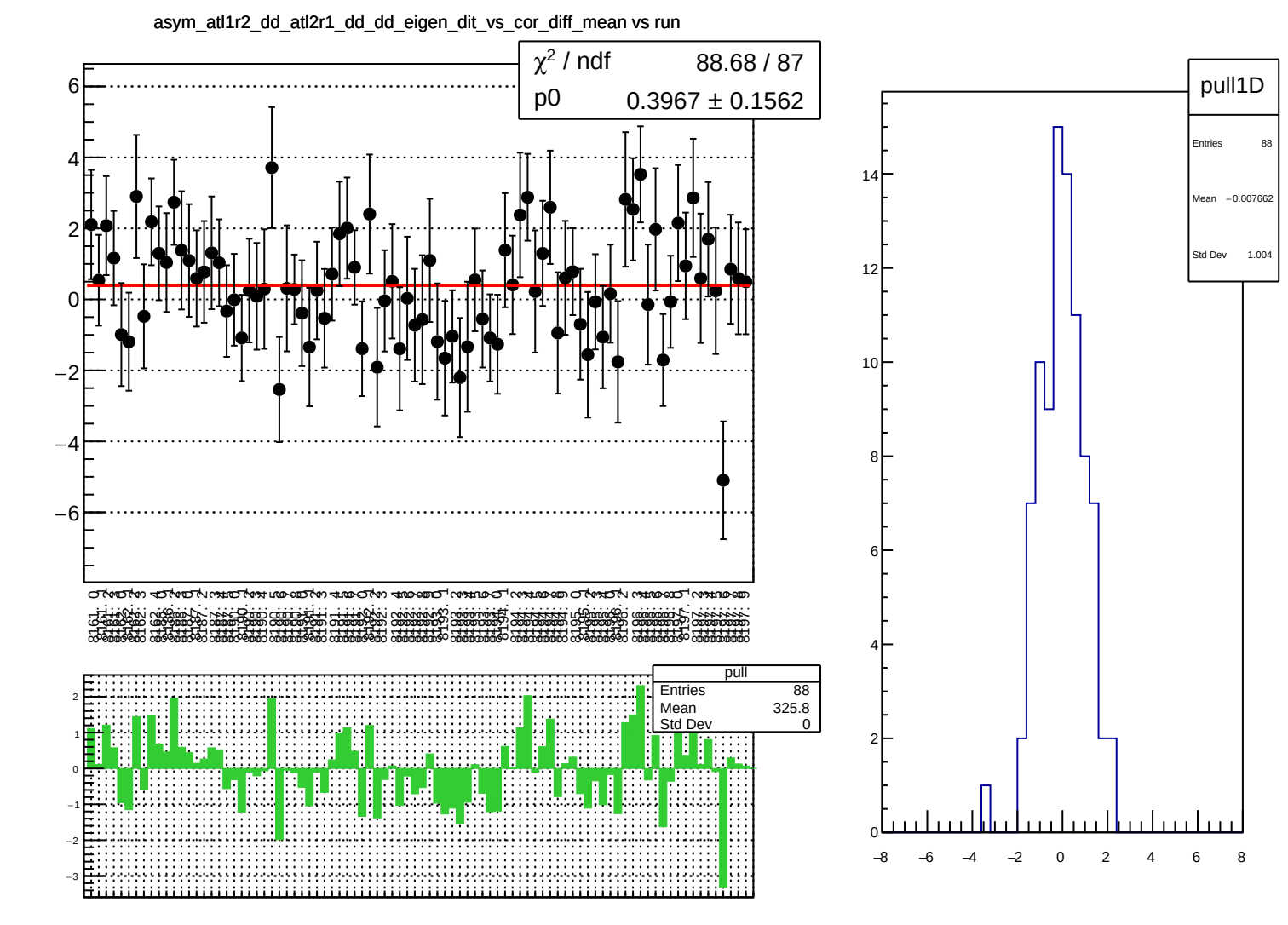

pull1D
Entries 88
Mean −0.007658
Std Dev 1.004

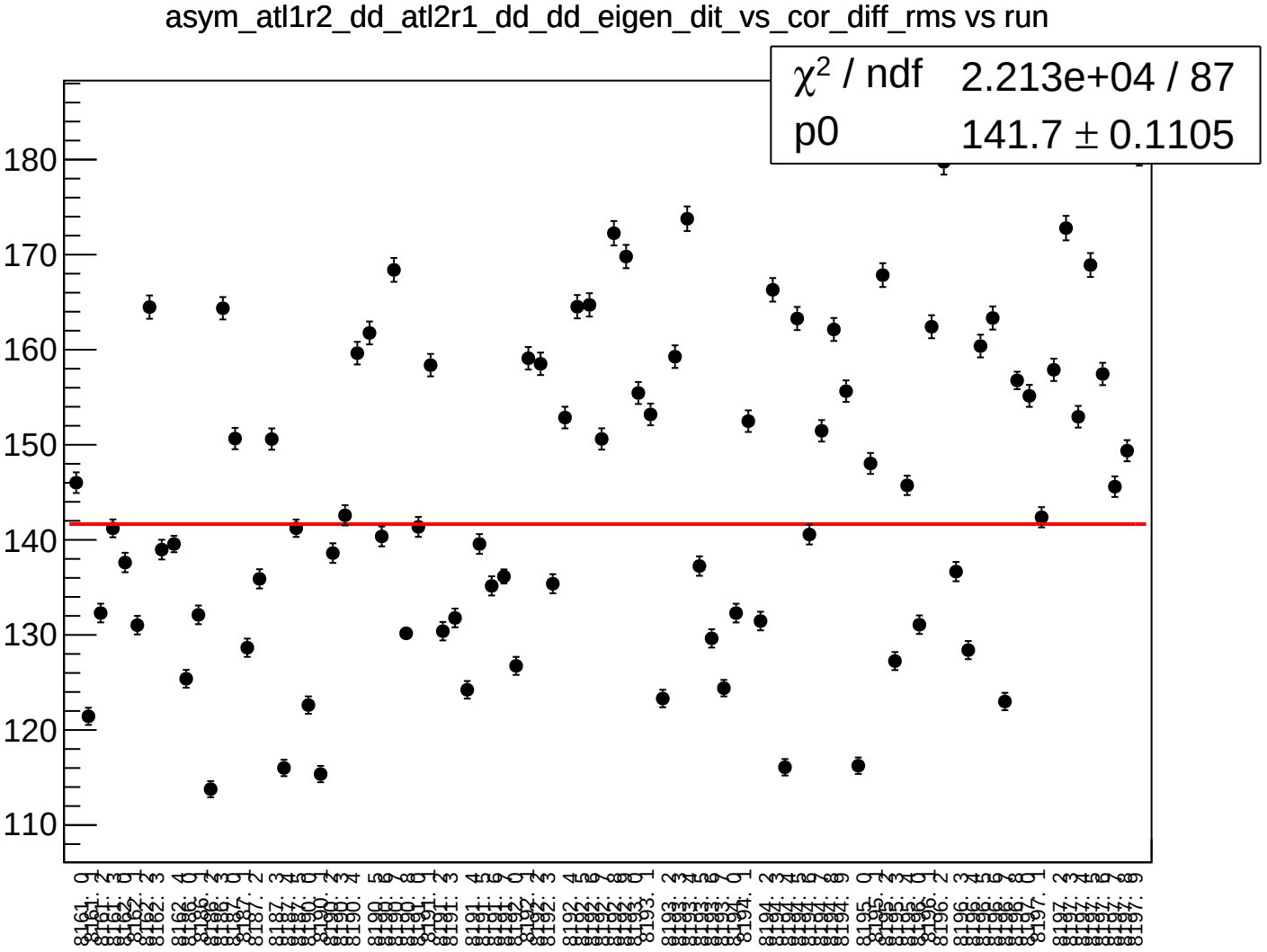

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

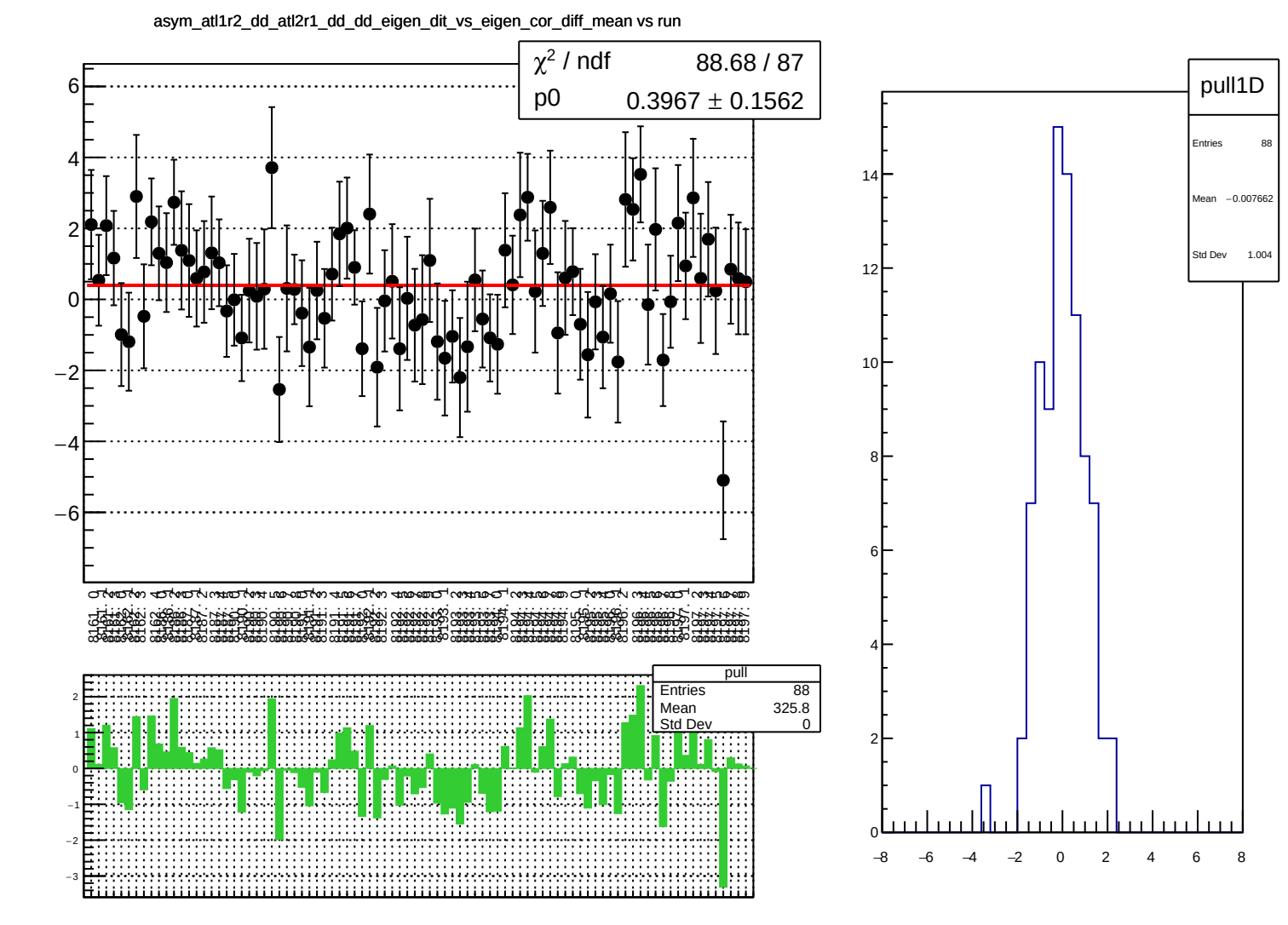

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.62 / 87
p0 2.614e−06 ± 1.433e−05
pull
Entries 88
Mean 39.31
Std Dev 17.74

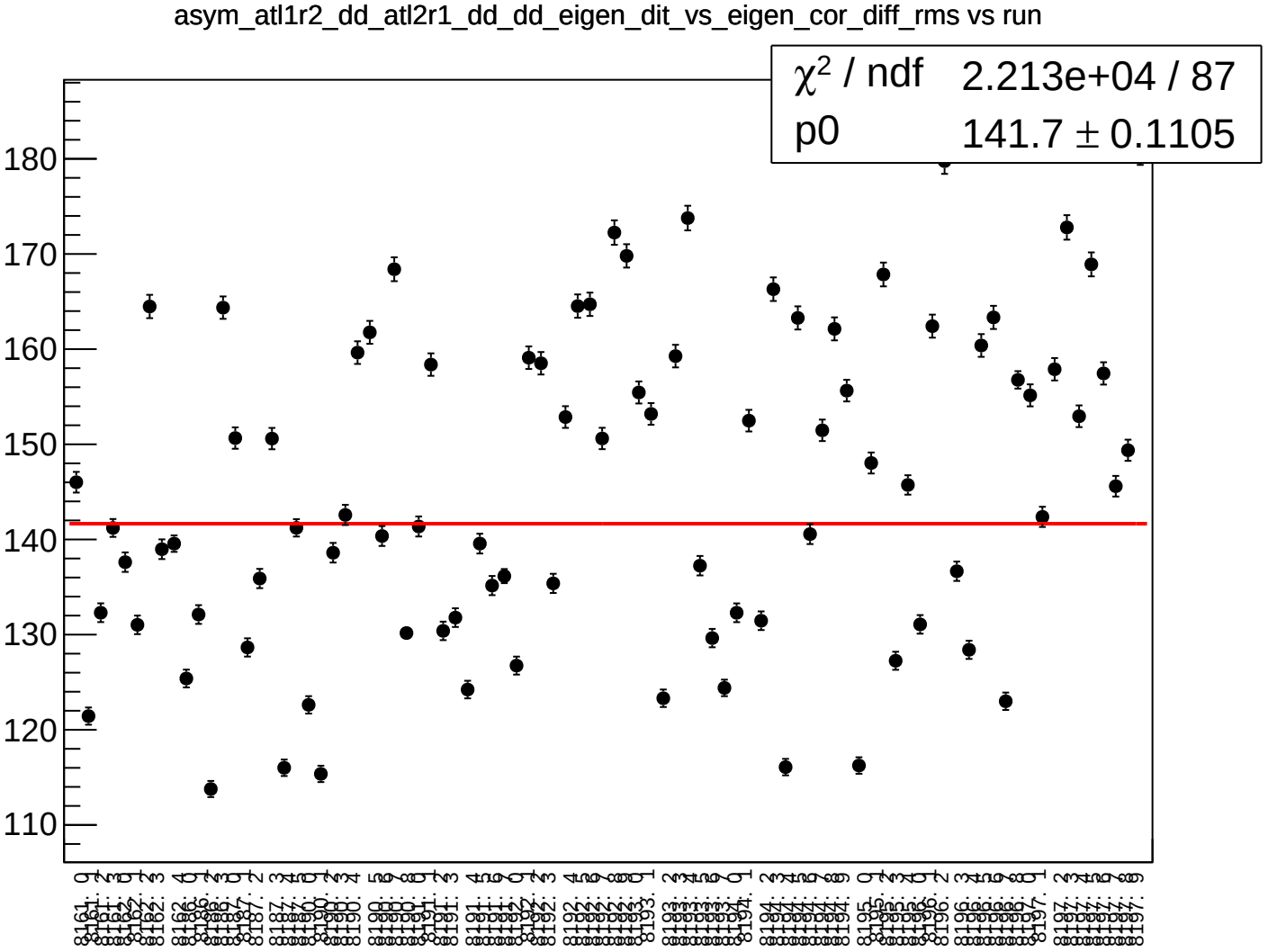

pull1D
Entries 88
Mean −0.07237
Std Dev 1.018

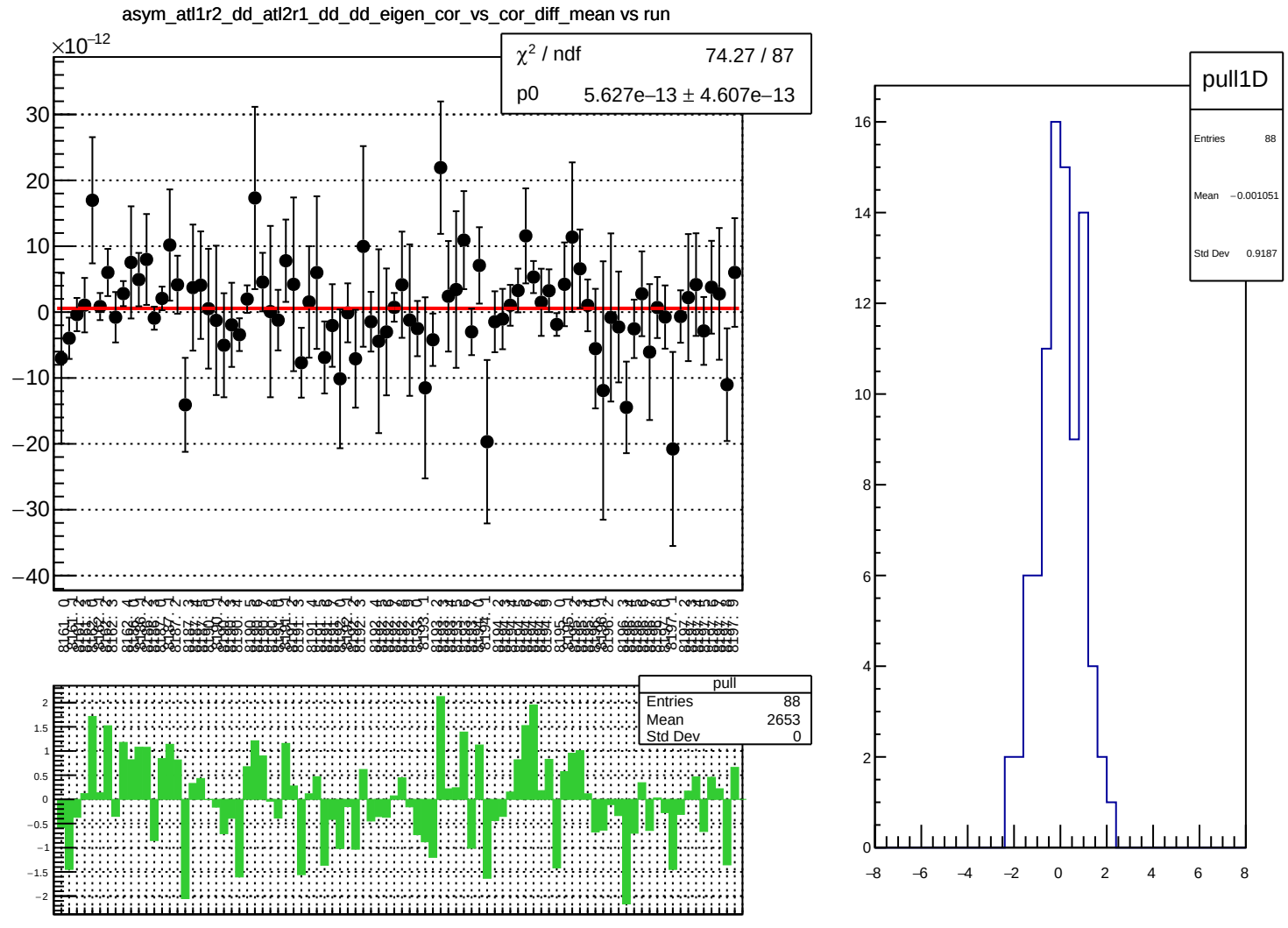

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.519e+05 / 87
p0 0.01117 ± 1.013e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

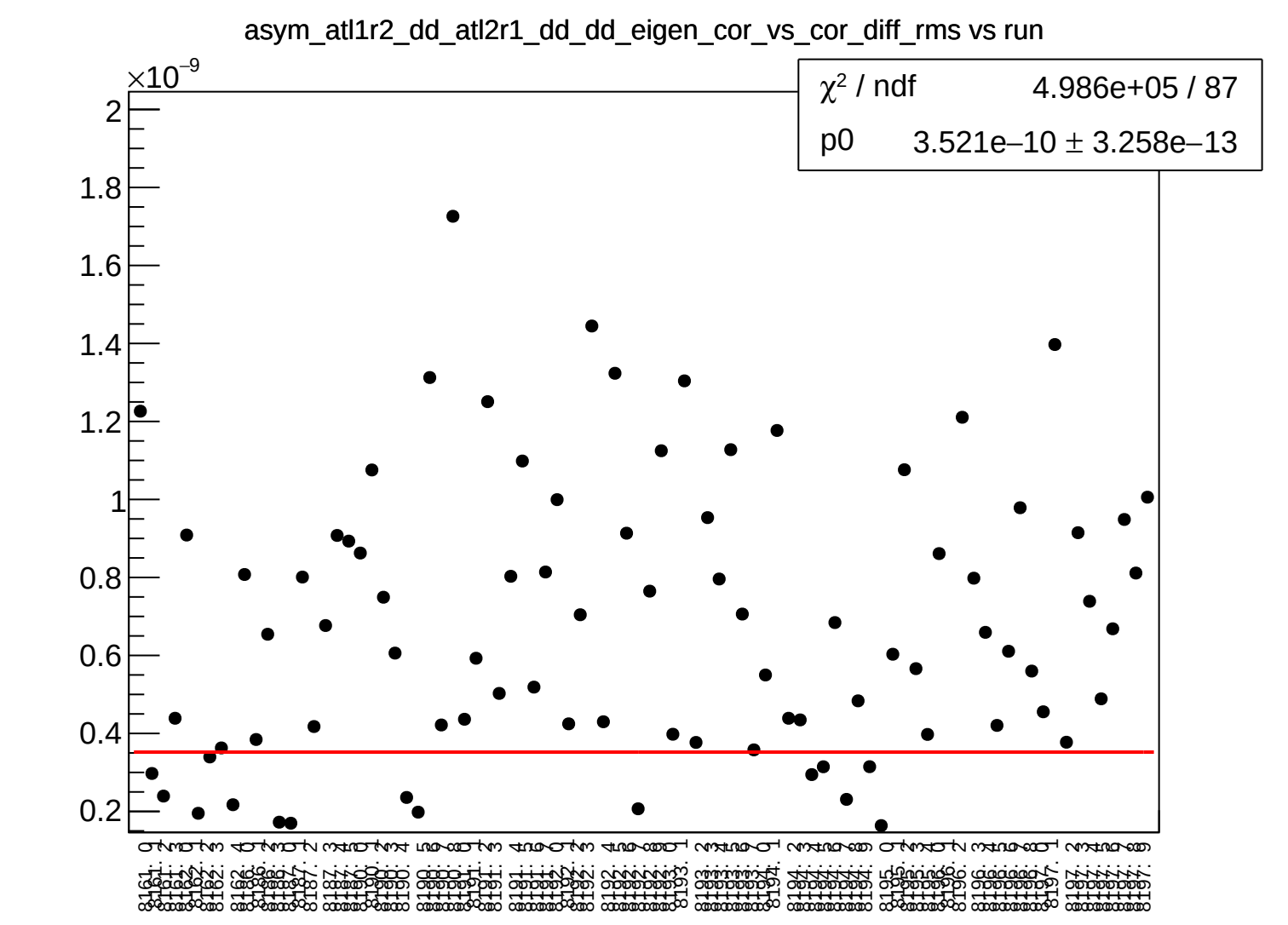

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.68 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.8
Std Dev 0
pull1D
Entries 88
Mean −0.007662
Std Dev 1.004

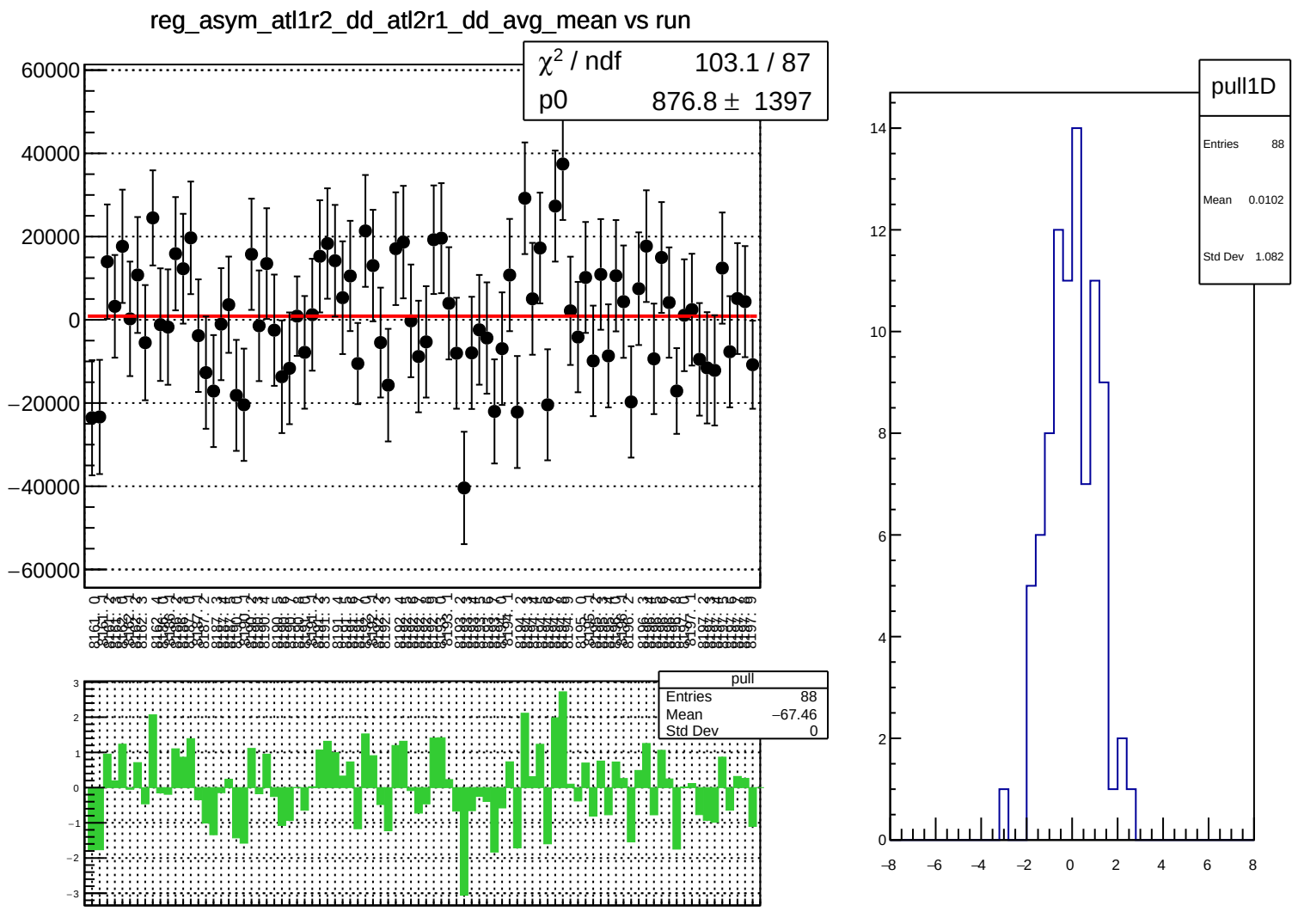

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

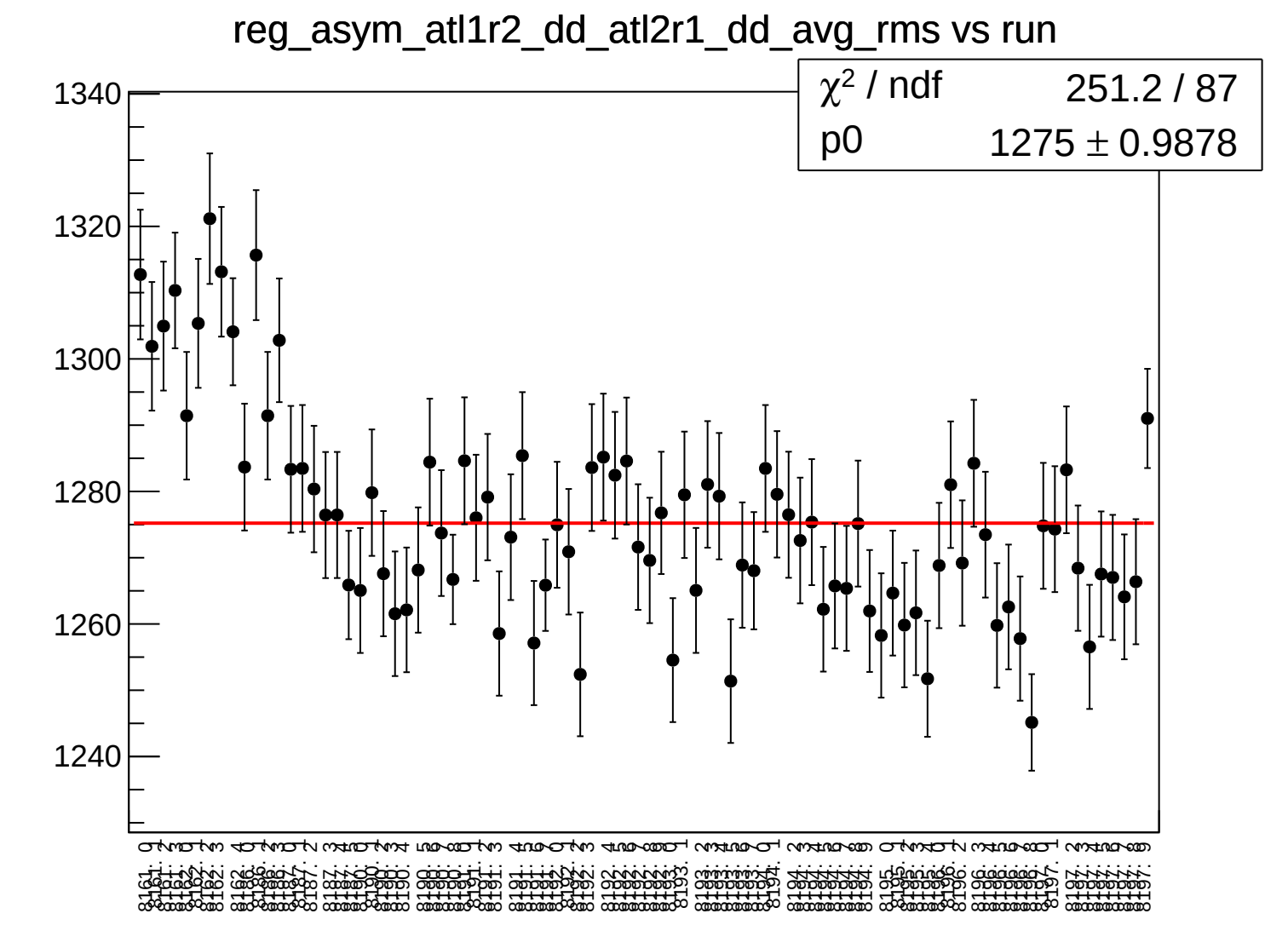

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.68 / 87
p0 0.3967 ± 0.1562
pull
Entries 88
Mean 325.8
Std Dev 0
pull1D
Entries 88
Mean −0.007662
Std Dev 1.004

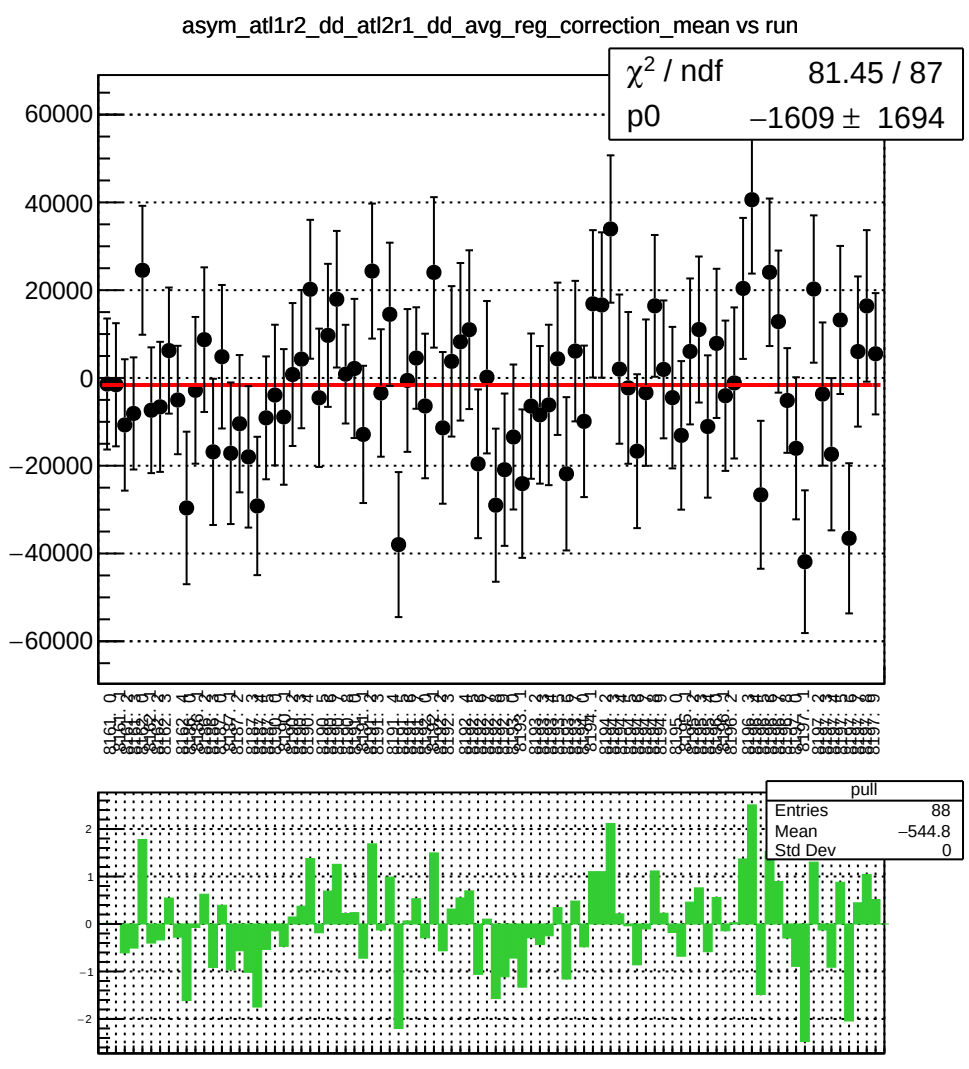

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+04 / 87
p0 141.7 ± 0.1105
180
170
160
150
140
130
120
110

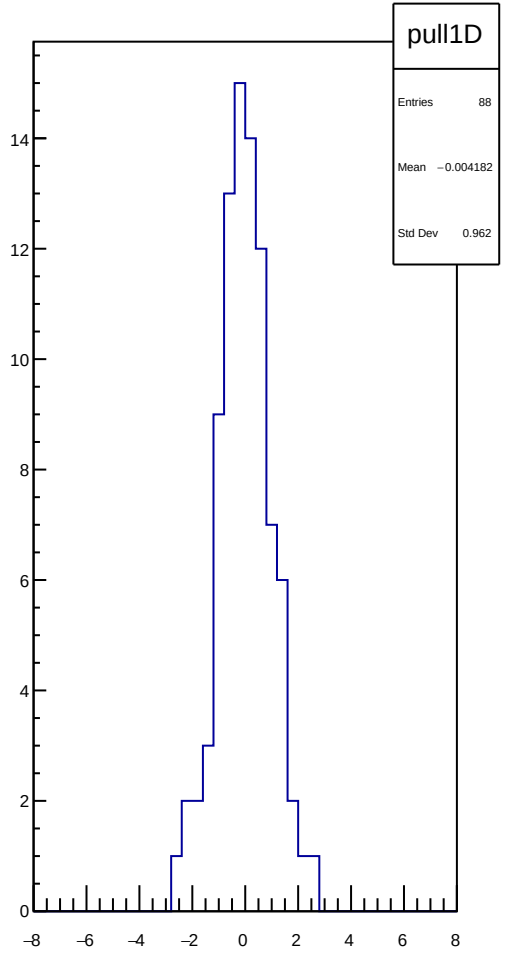

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.27 / 87
p0 5.627e−13 ± 4.607e−13
pull
Entries 88
Mean 2653
Std Dev 0
pull1D
Entries 88
Mean −0.001051
Std Dev 0.9187

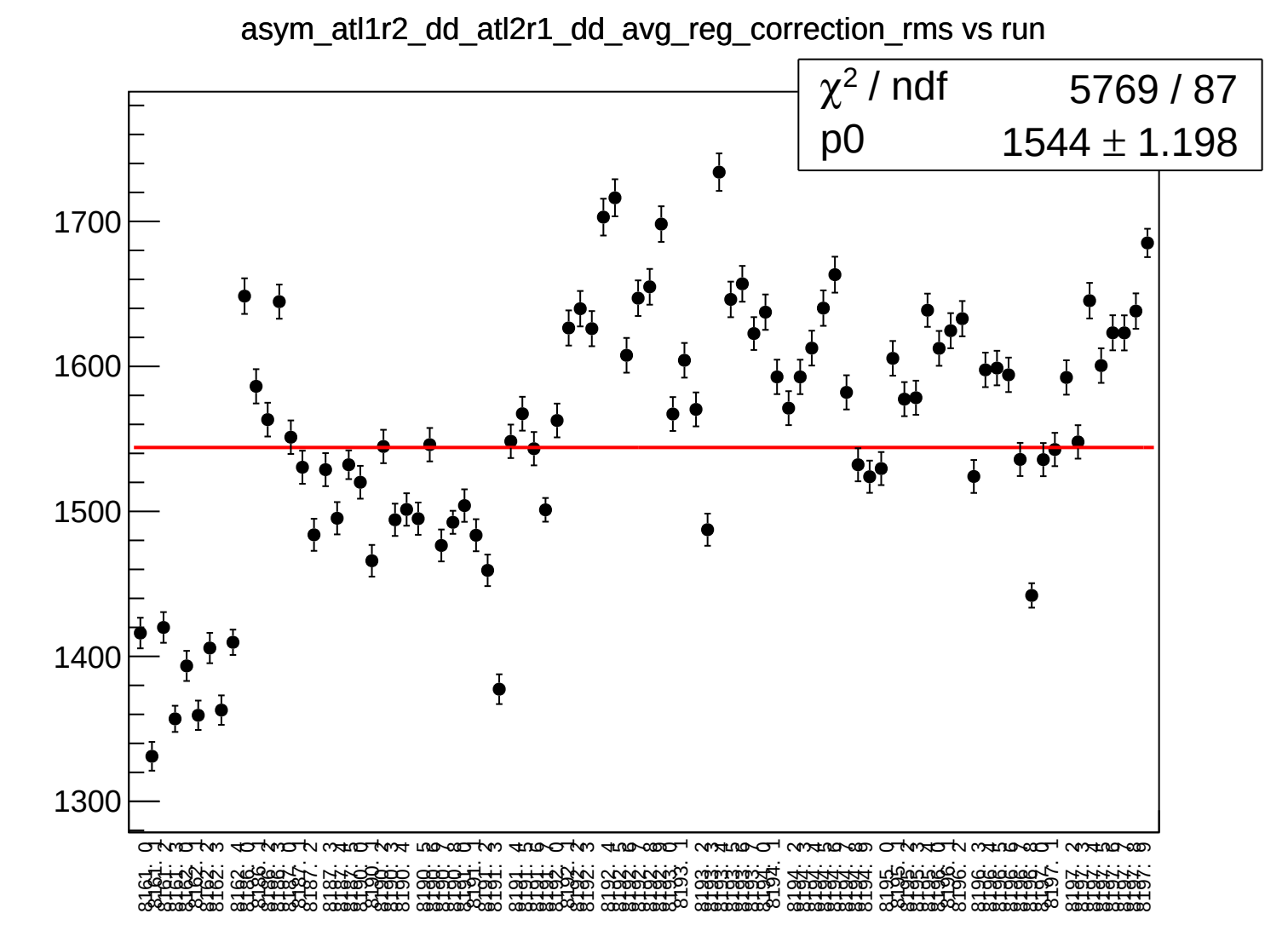

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.986e+05 / 87
p0 3.521e−10 ± 3.258e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

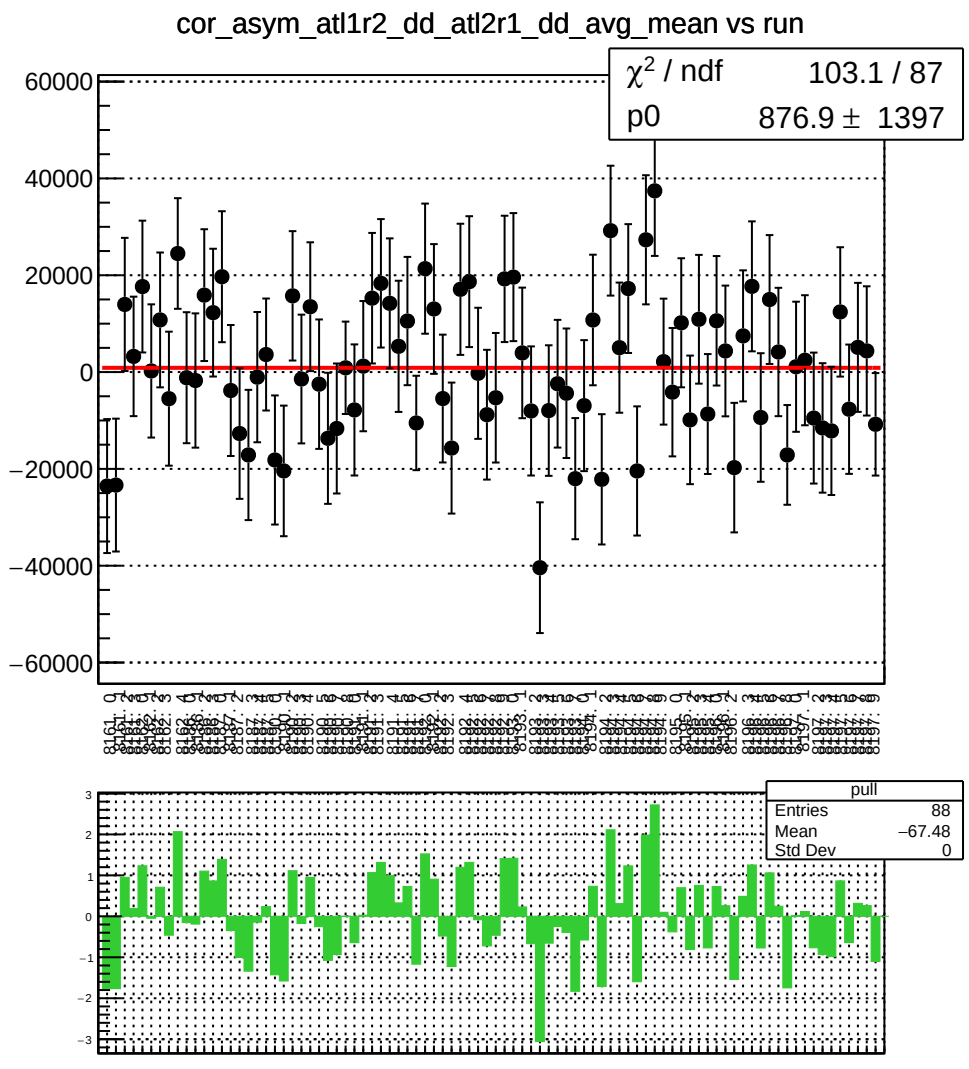

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 103.1 / 87
p0 876.8 ± 1397
pull
Entries 88
Mean −67.46
Std Dev 0
pull1D
Entries 88
Mean 0.0102
Std Dev 1.082

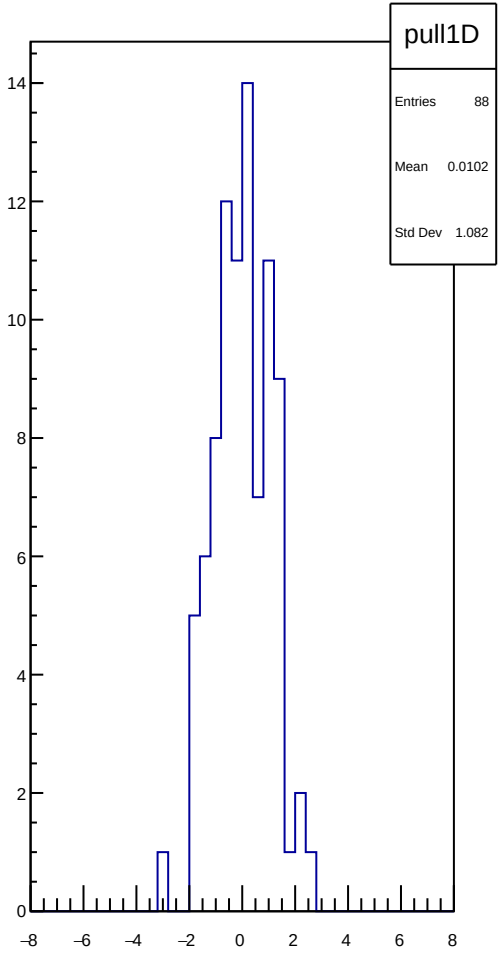

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 251.2 / 87
p0 1275 ± 0.9878
1340
1320
1300
1280
1260
1240

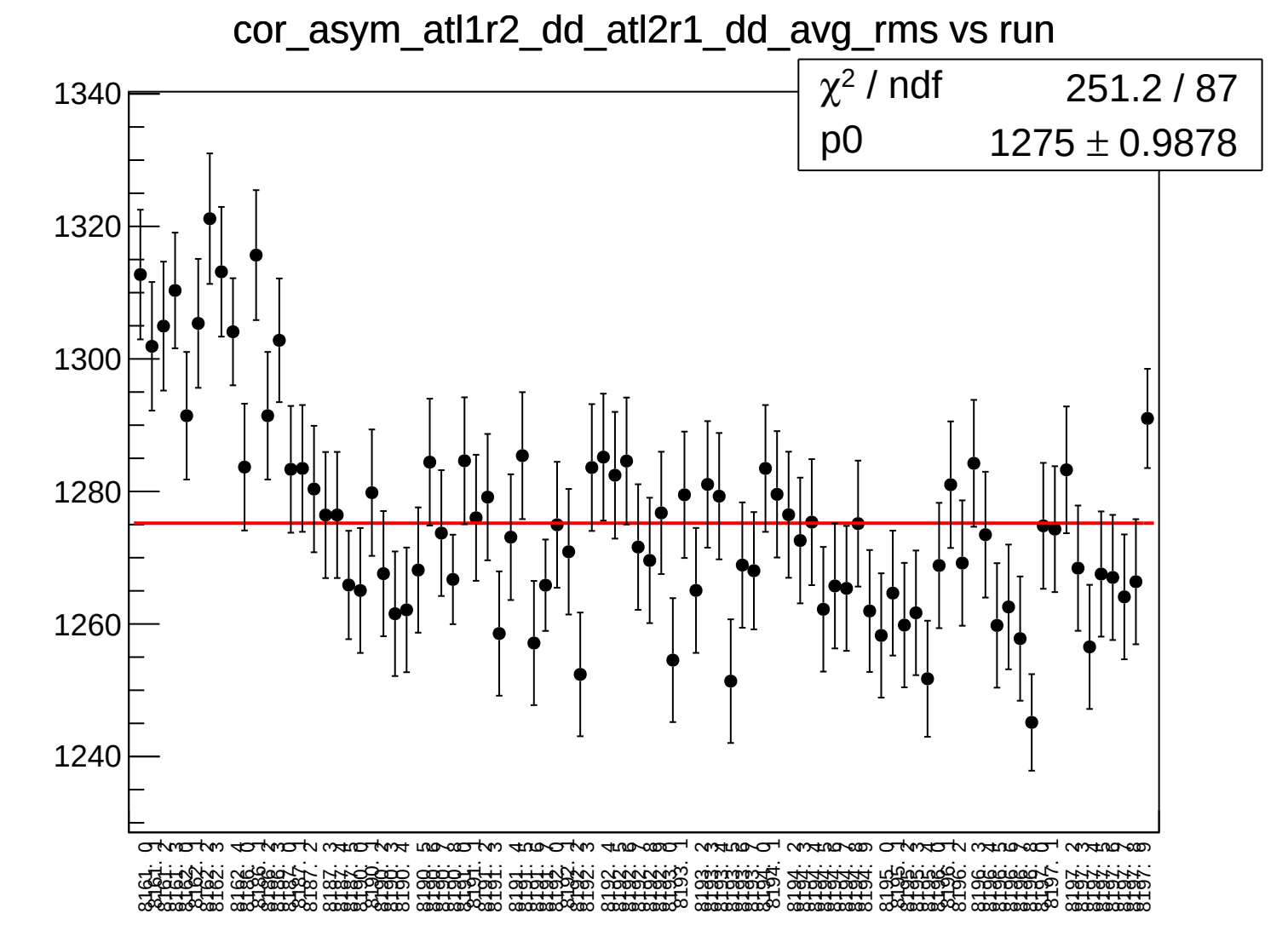

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 81.45 / 87
p0 −1609 ± 1694
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −544.8
Std Dev 0
2
1
0
−1
−2

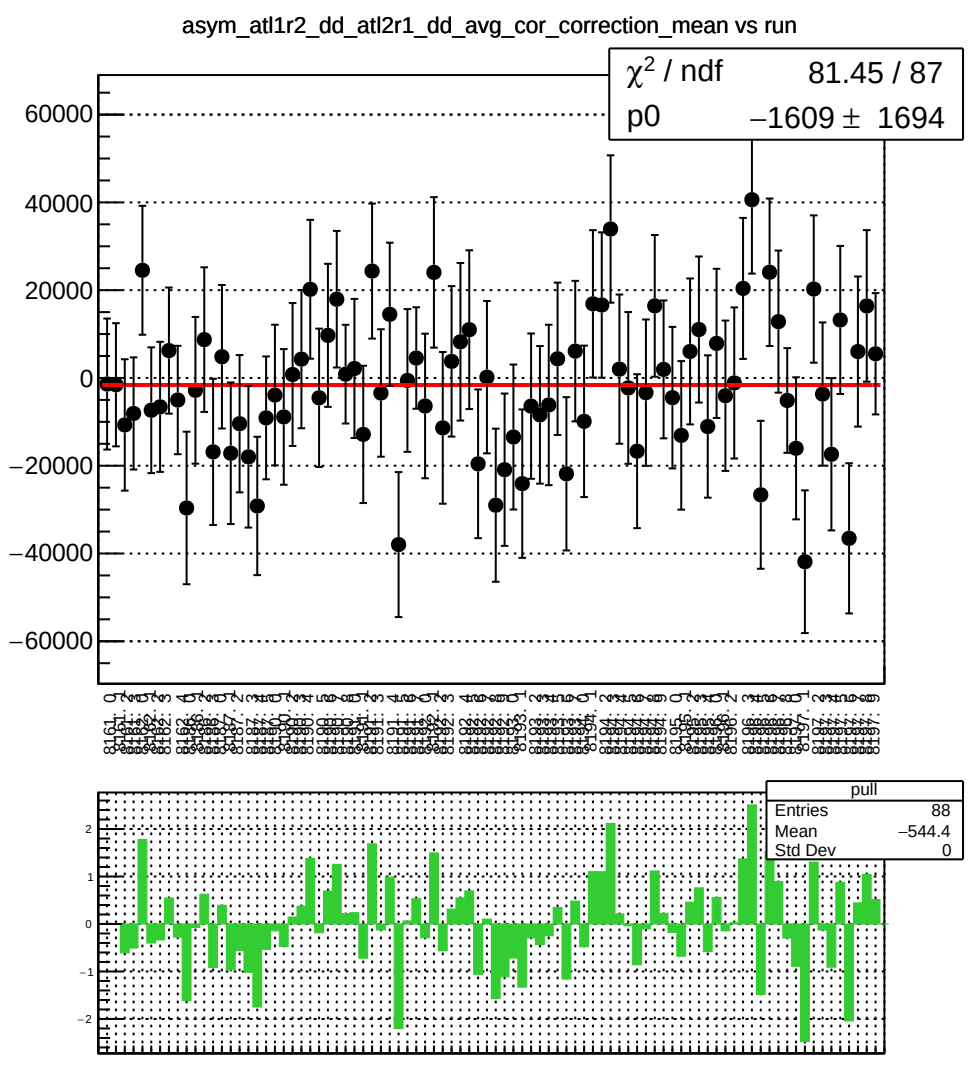

pull1D
Entries 88
Mean −0.004182
Std Dev 0.962
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

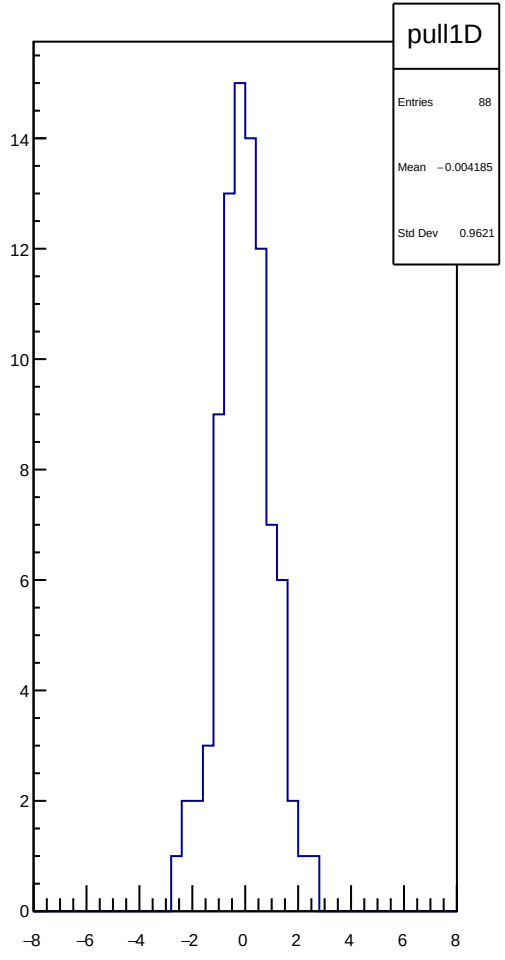

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 5769 / 87
p0 1544 ± 1.198
1700
1600
1500
1400
1300

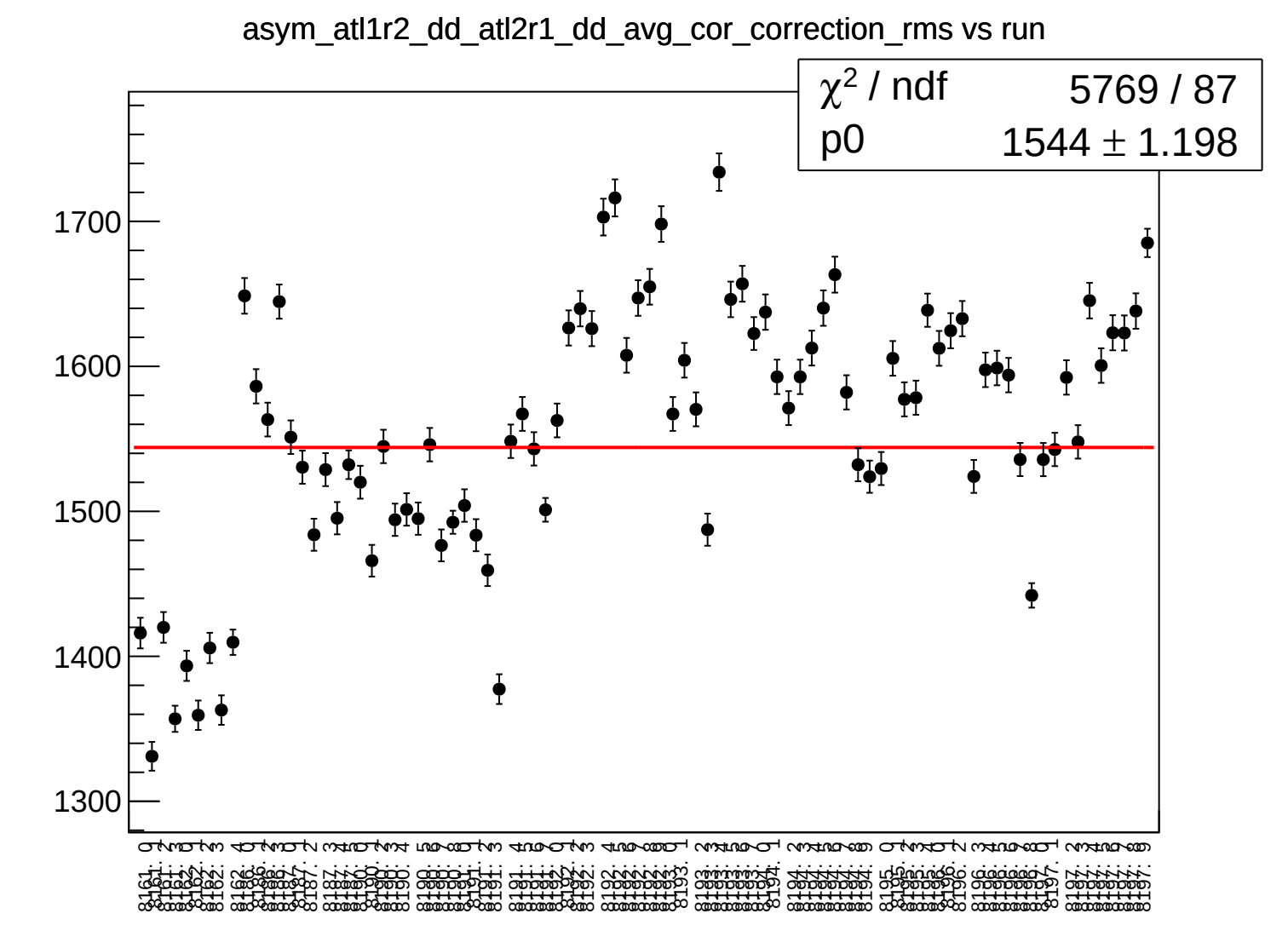

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 103.1 / 87
p0 876.9 ± 1397
pull
Entries 88
Mean −67.48
Std Dev 0

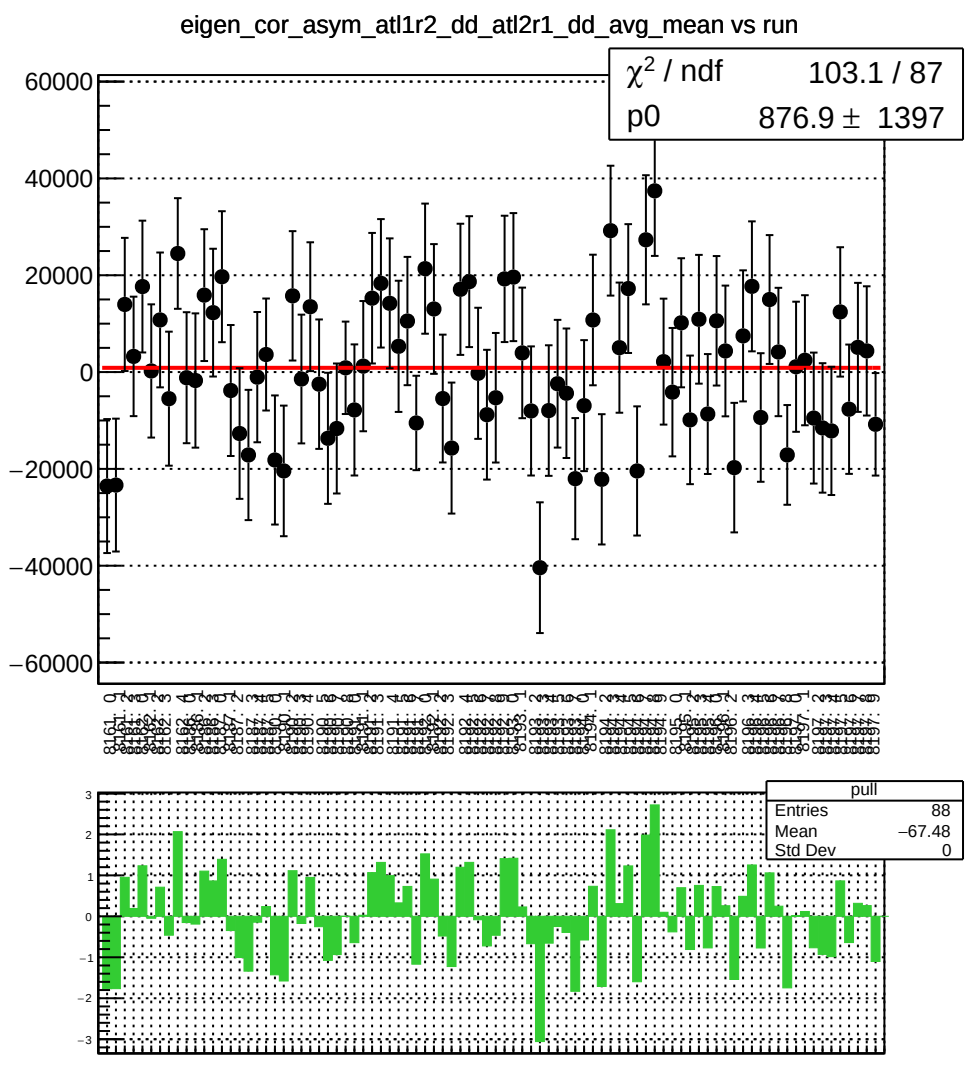

pull1D
Entries 88
Mean 0.0102
Std Dev 1.082

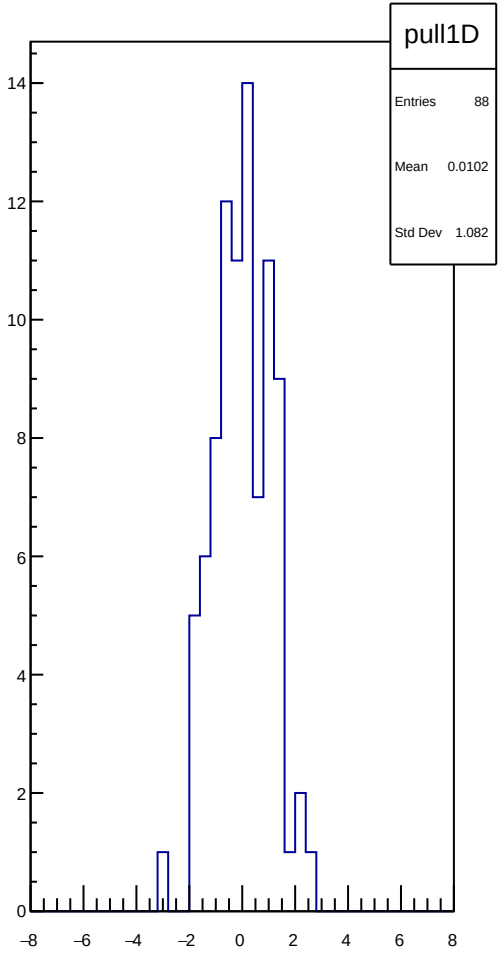

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 251.2 / 87
p0 1275 ± 0.9878
1340
1320
1300
1280
1260
1240

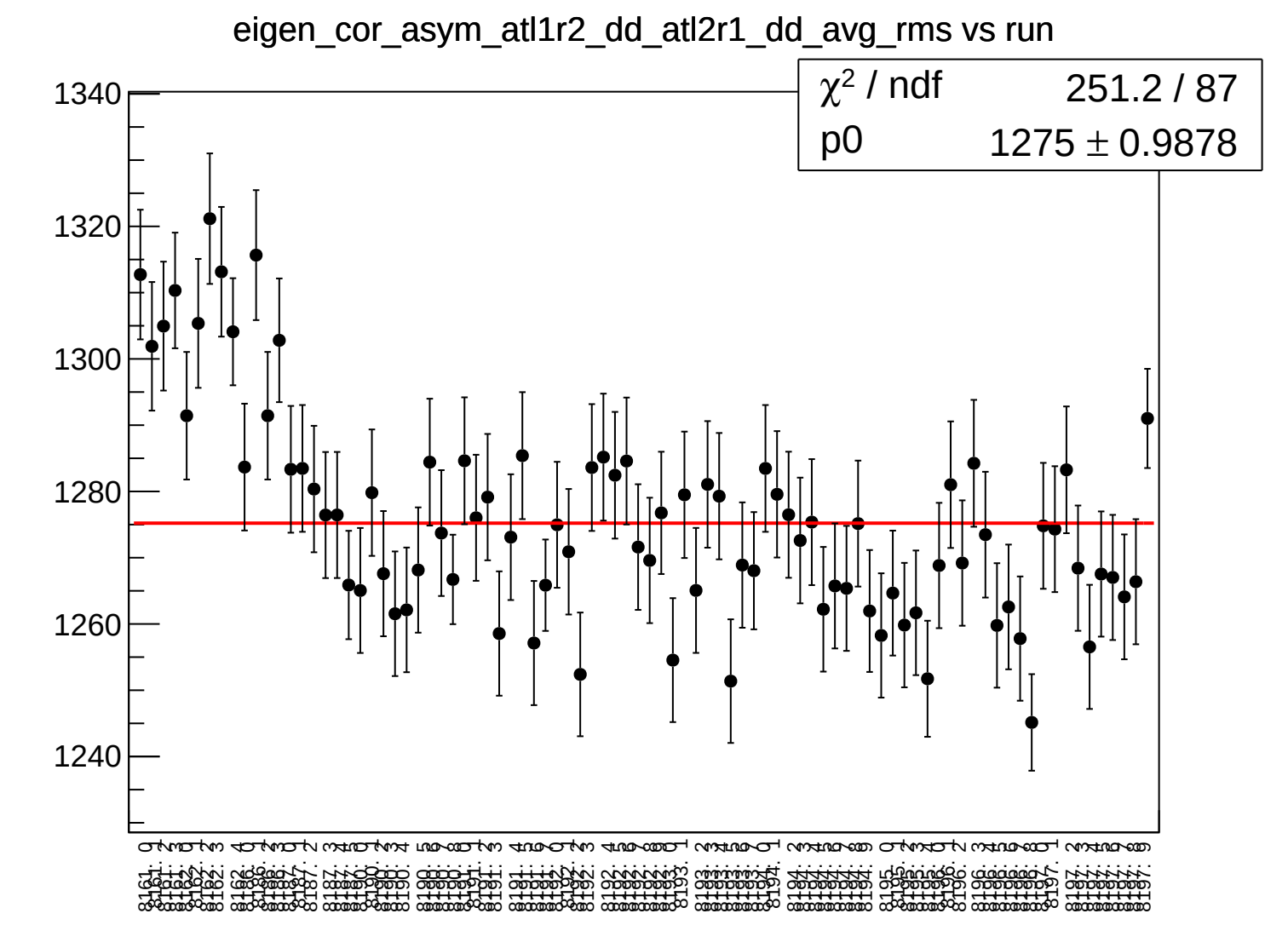

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 81.45 / 87
p0 −1609 ± 1694
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −544.4
Std Dev 0
2
1
0
−1
−2

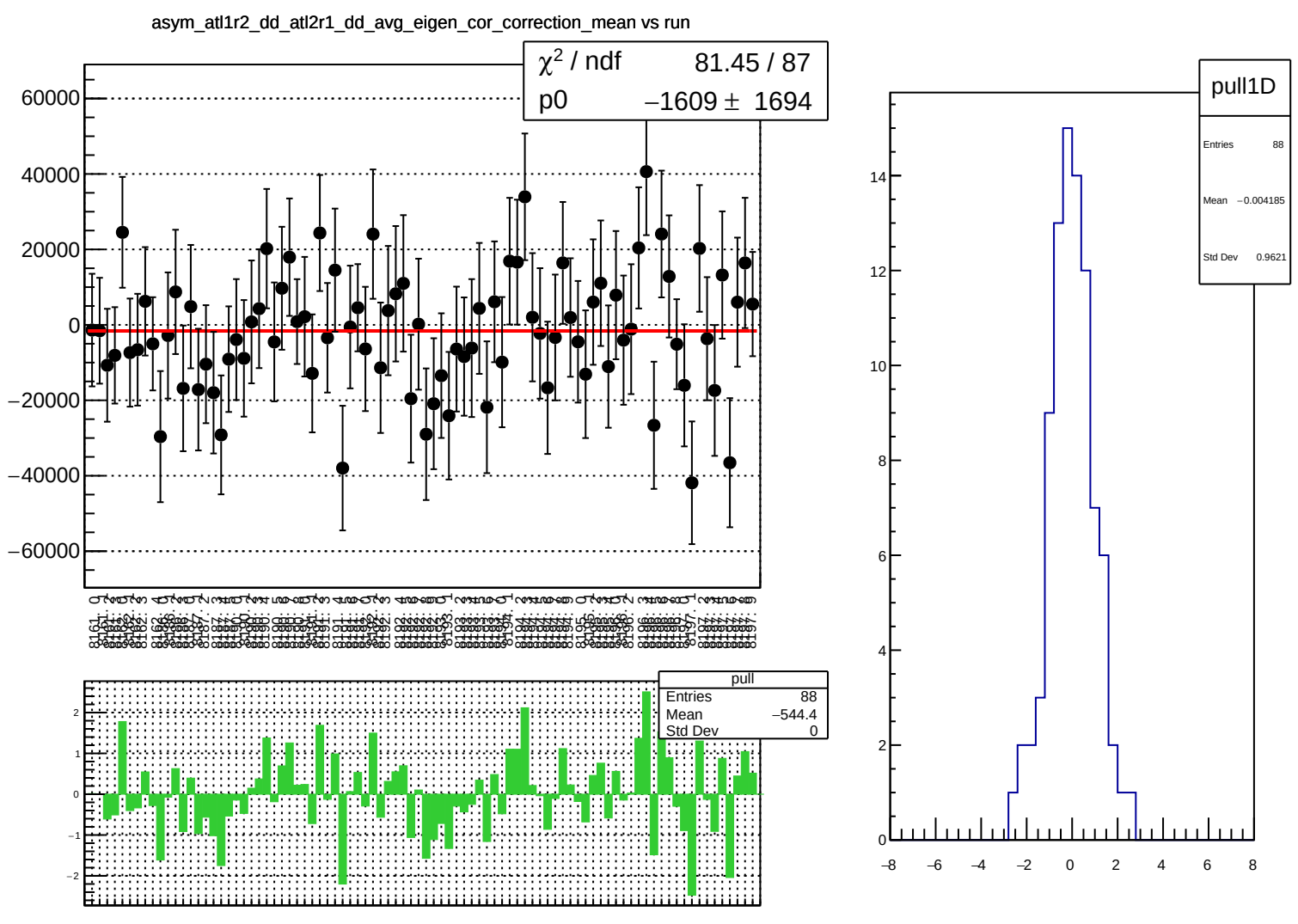

pull1D
Entries 88
Mean −0.004185
Std Dev 0.9621
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

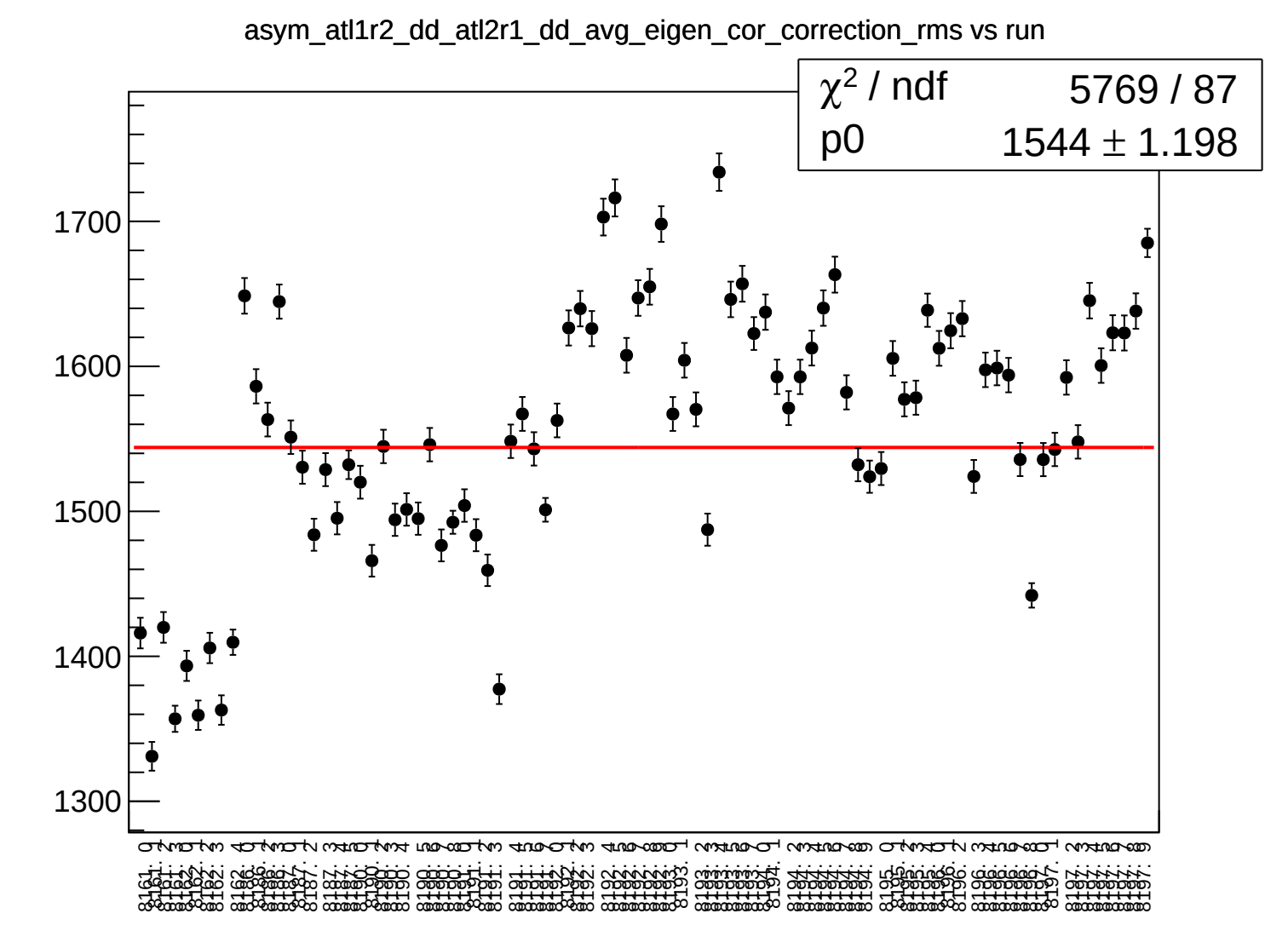

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 5769 / 87
p0 1544 ± 1.198
1700
1600
1500
1400
1300

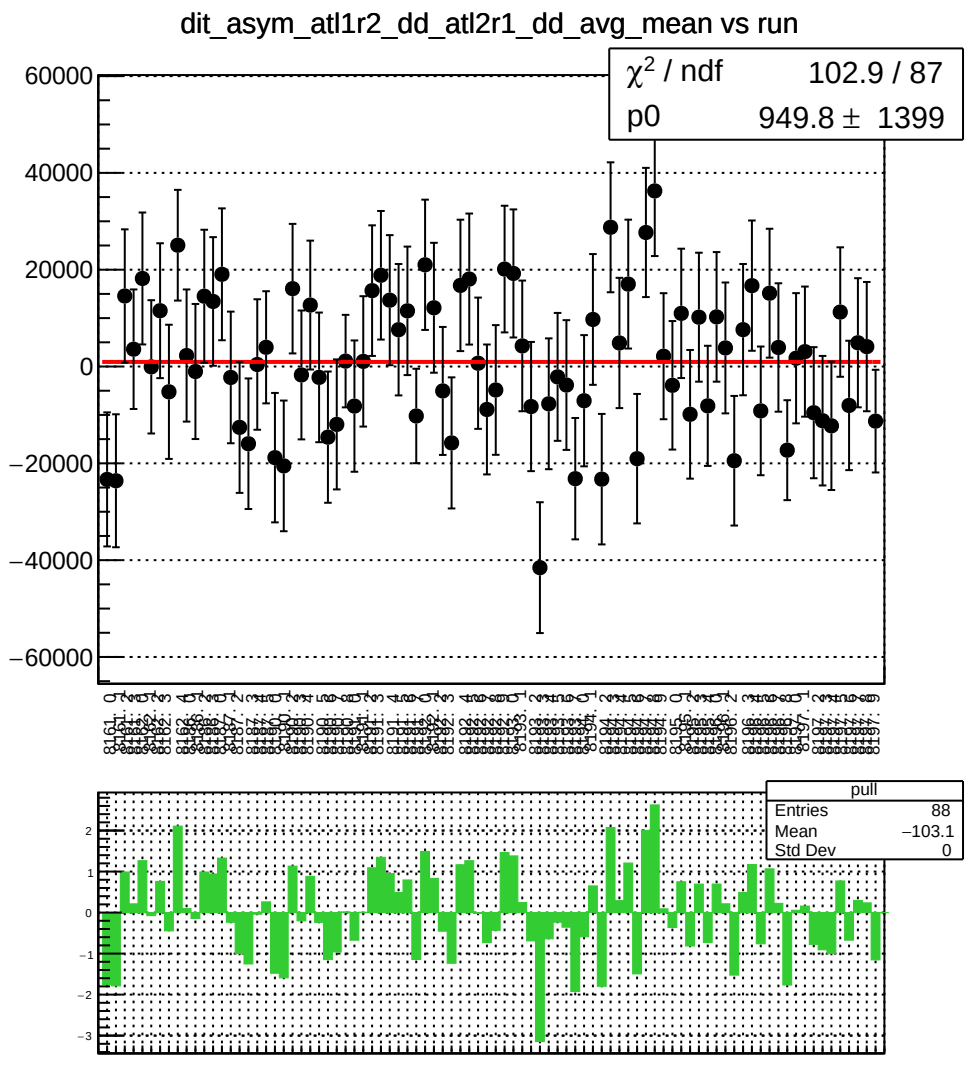

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 103.1 / 87
p0 876.9 ± 1397
pull
Entries 88
Mean −67.48
Std Dev 0

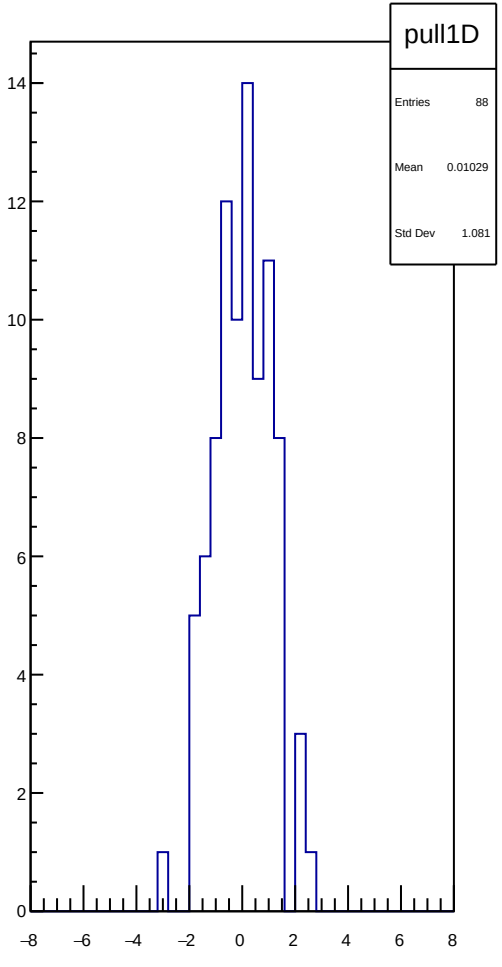

pull1D
Entries 88
Mean 0.0102
Std Dev 1.082

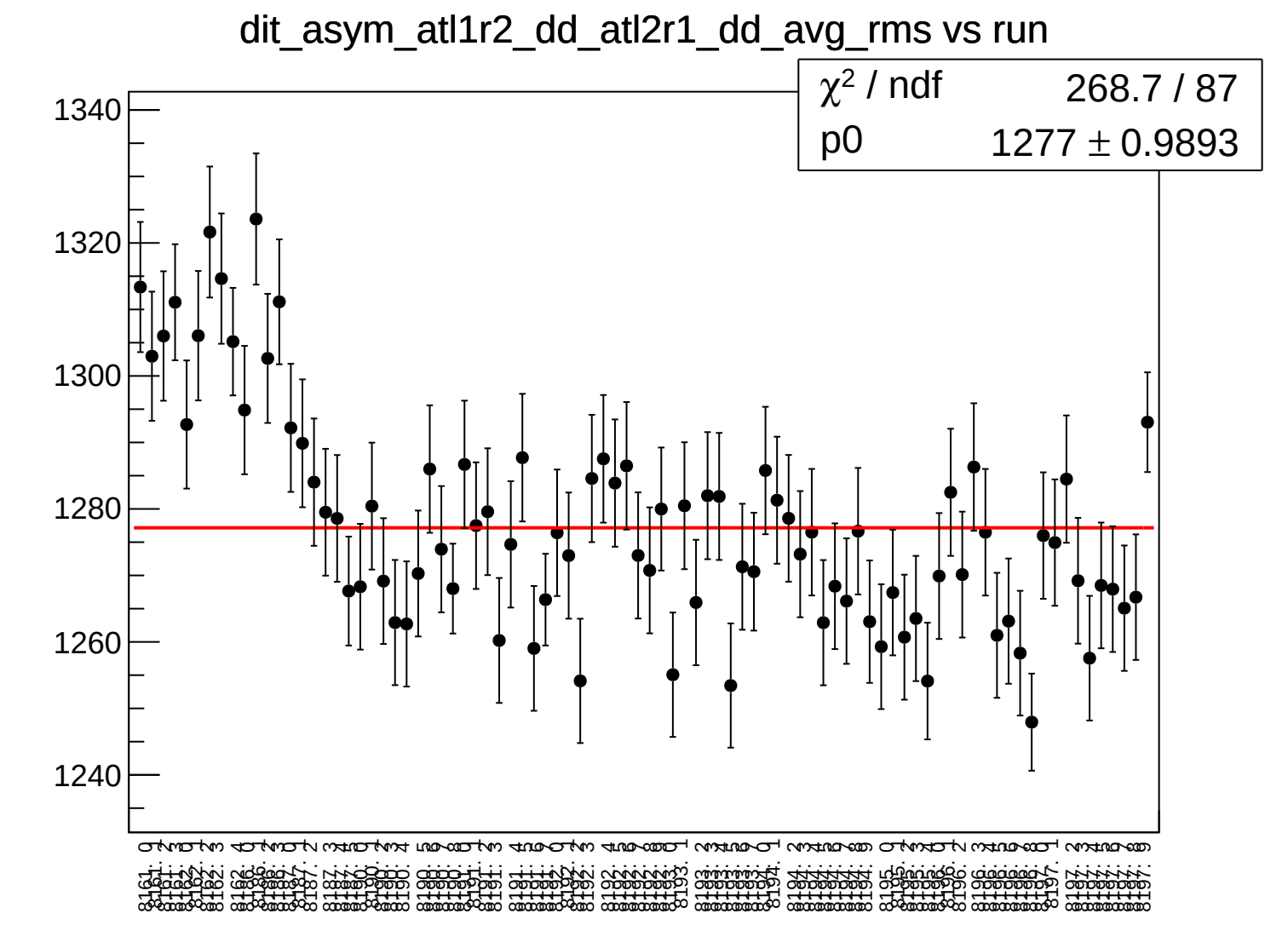

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 251.2 / 87
p0 1275 ± 0.9878
1340
1320
1300
1280
1260
1240

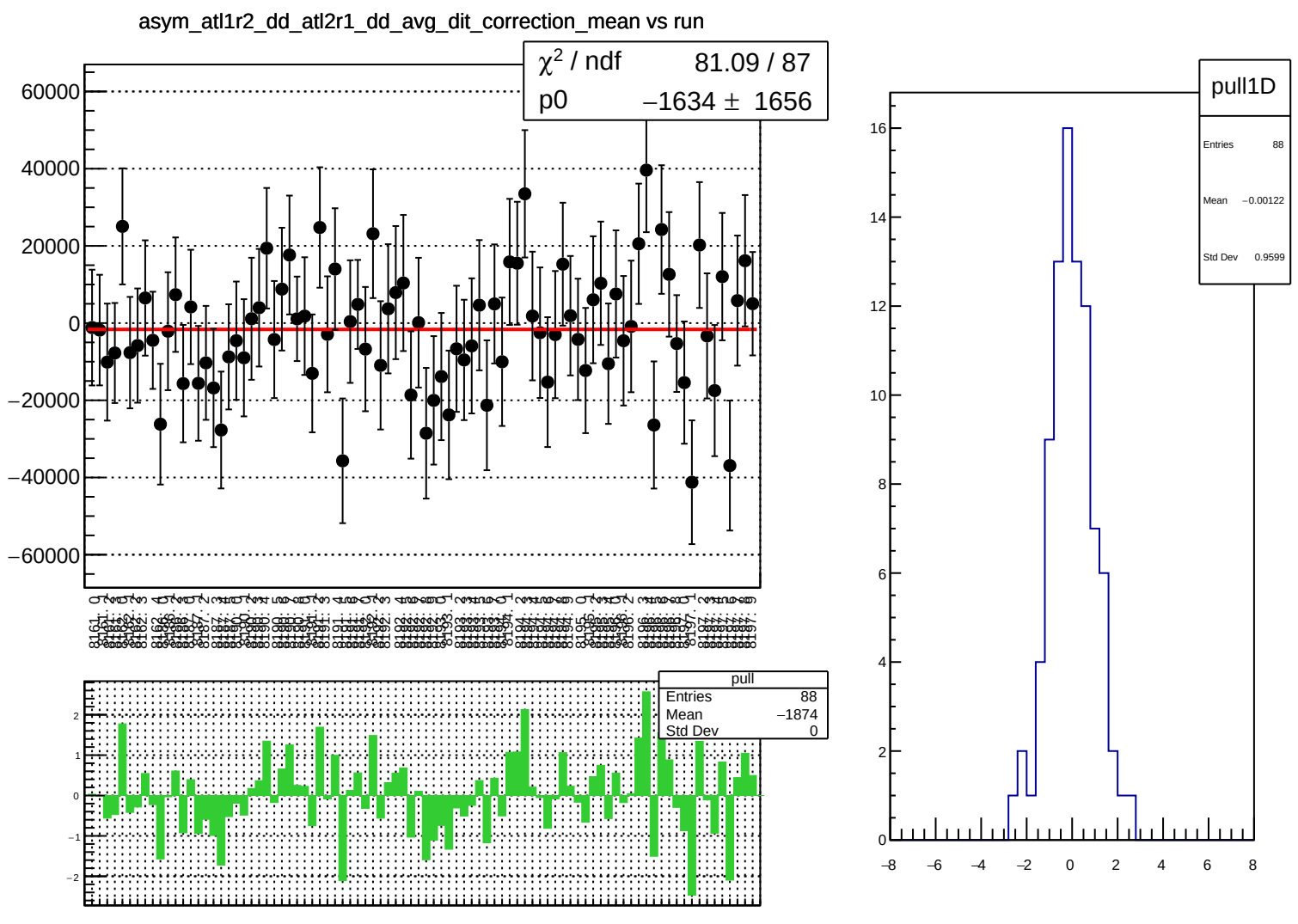

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.45 / 87
p0 −1609 ± 1694
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −544.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.004185
Std Dev 0.9621
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

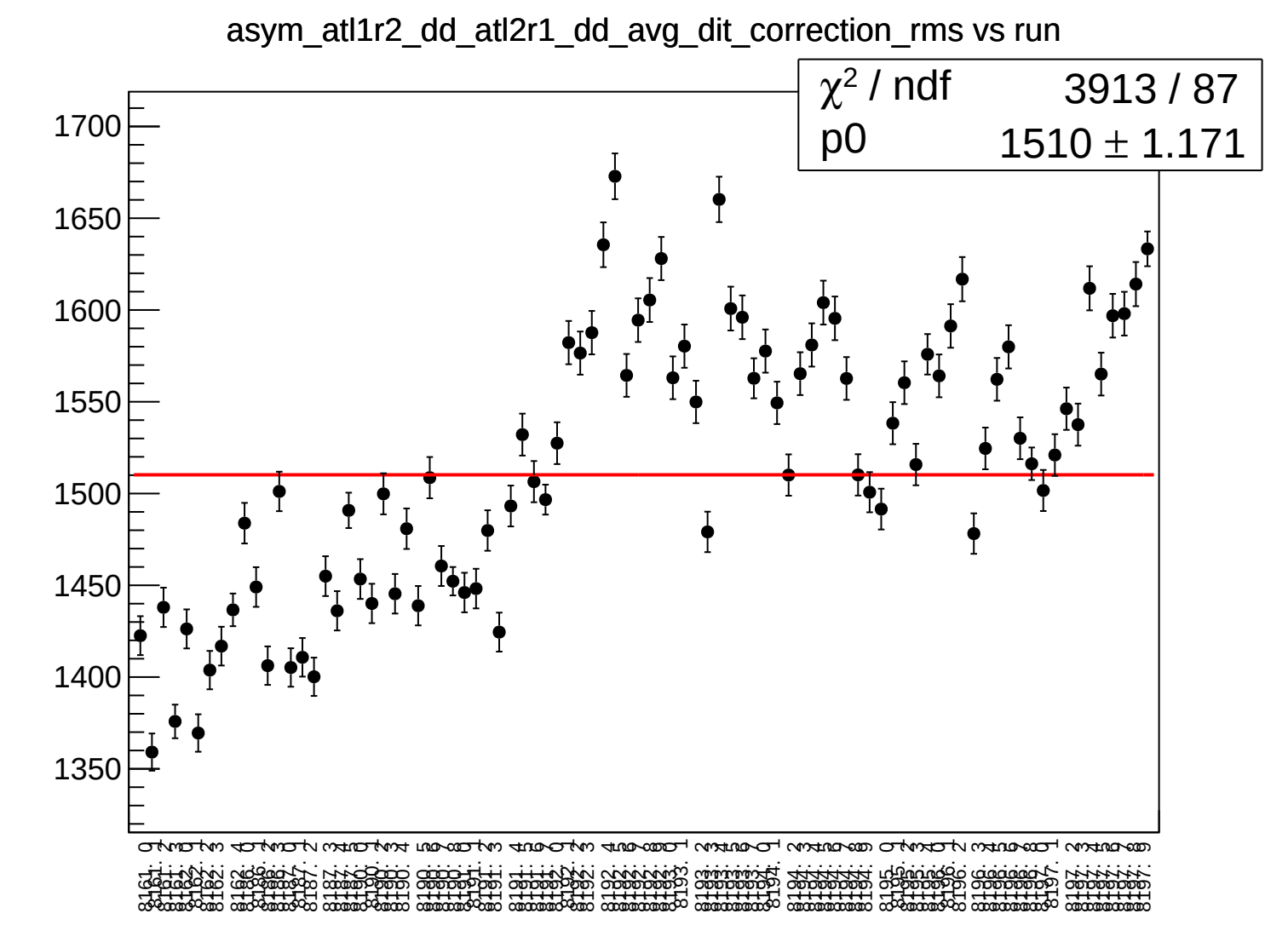

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5769 / 87
p0 1544 ± 1.198
1700
1600
1500
1400
1300

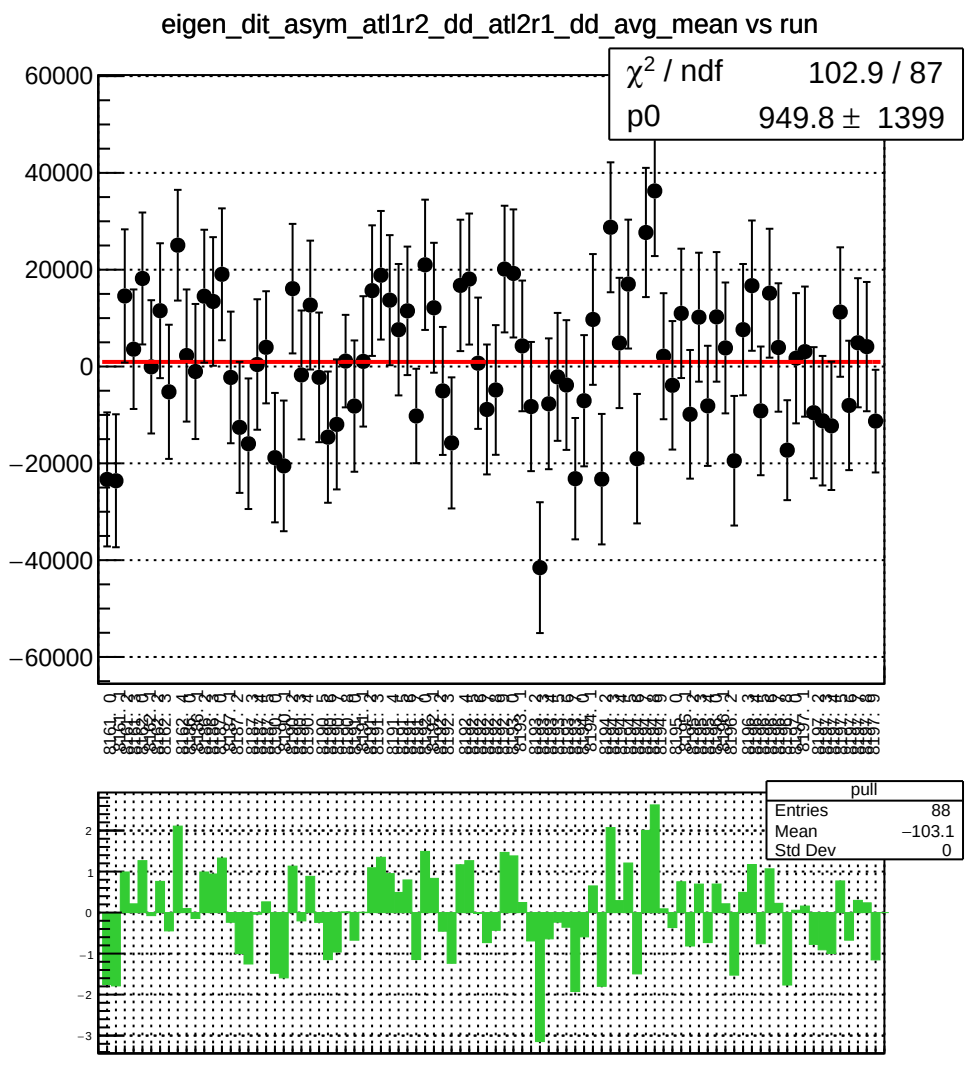

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 102.9 / 87
p0 949.8 ± 1399
pull
Entries 88
Mean −103.1
Std Dev 0

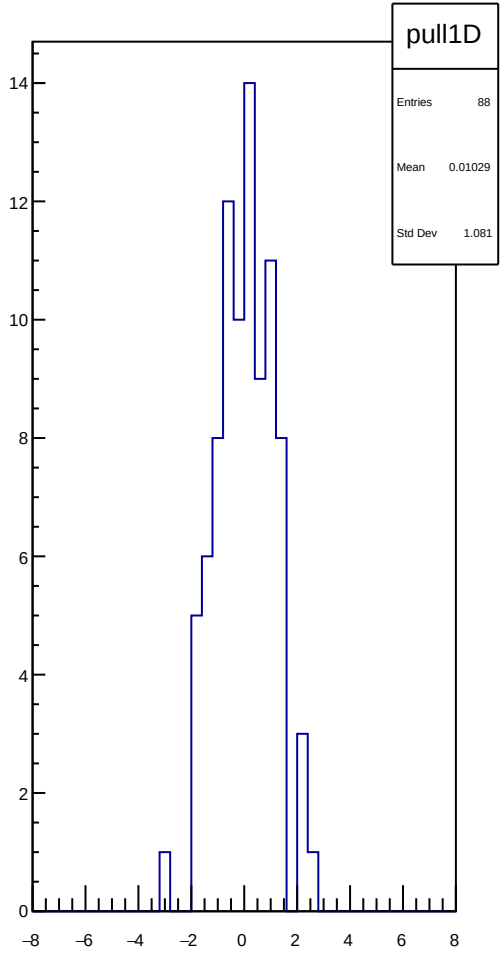

pull1D
Entries 88
Mean 0.01029
Std Dev 1.081

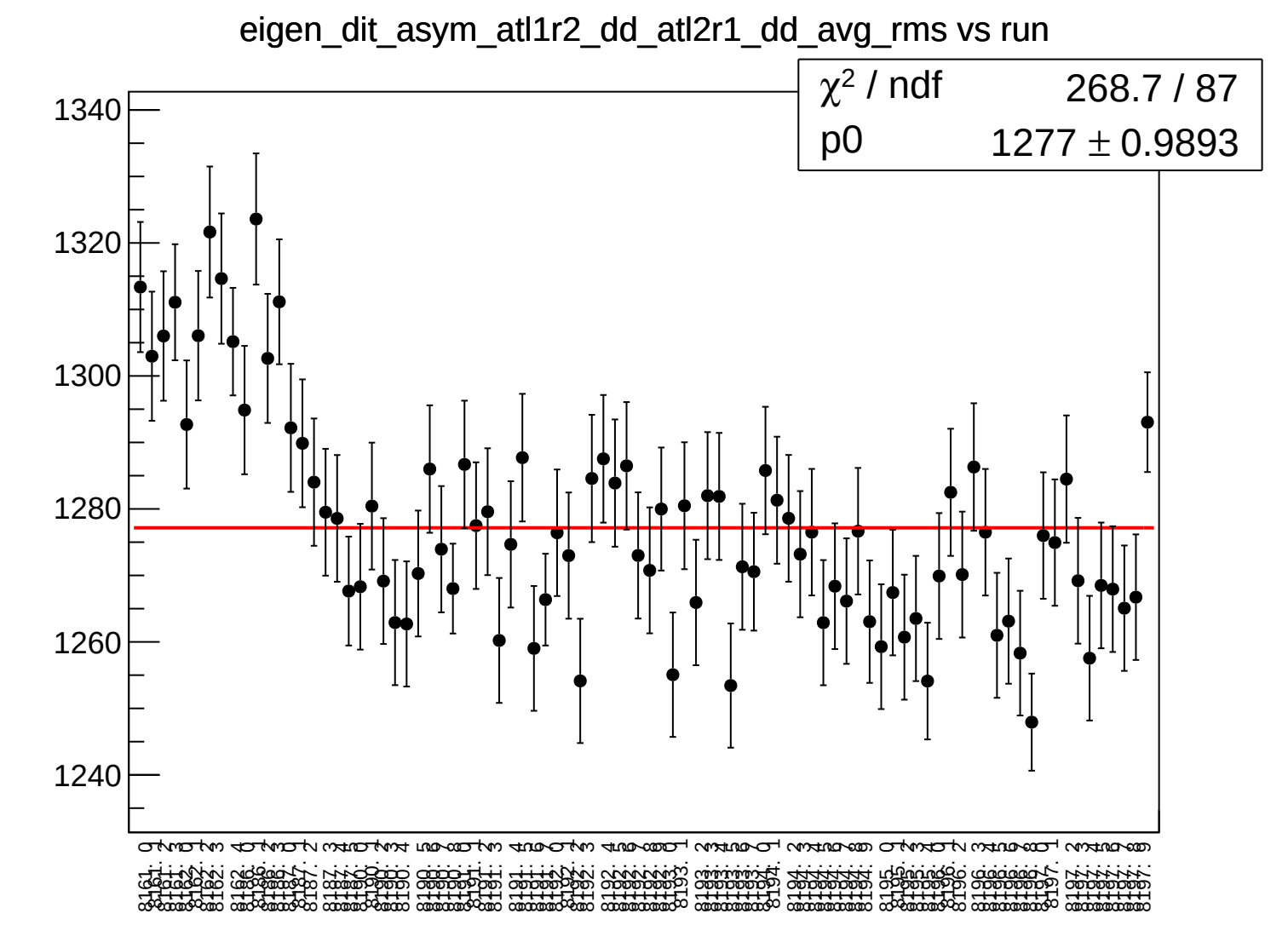

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 268.7 / 87
p0 1277 ± 0.9893
1340
1320
1300
1280
1260
1240

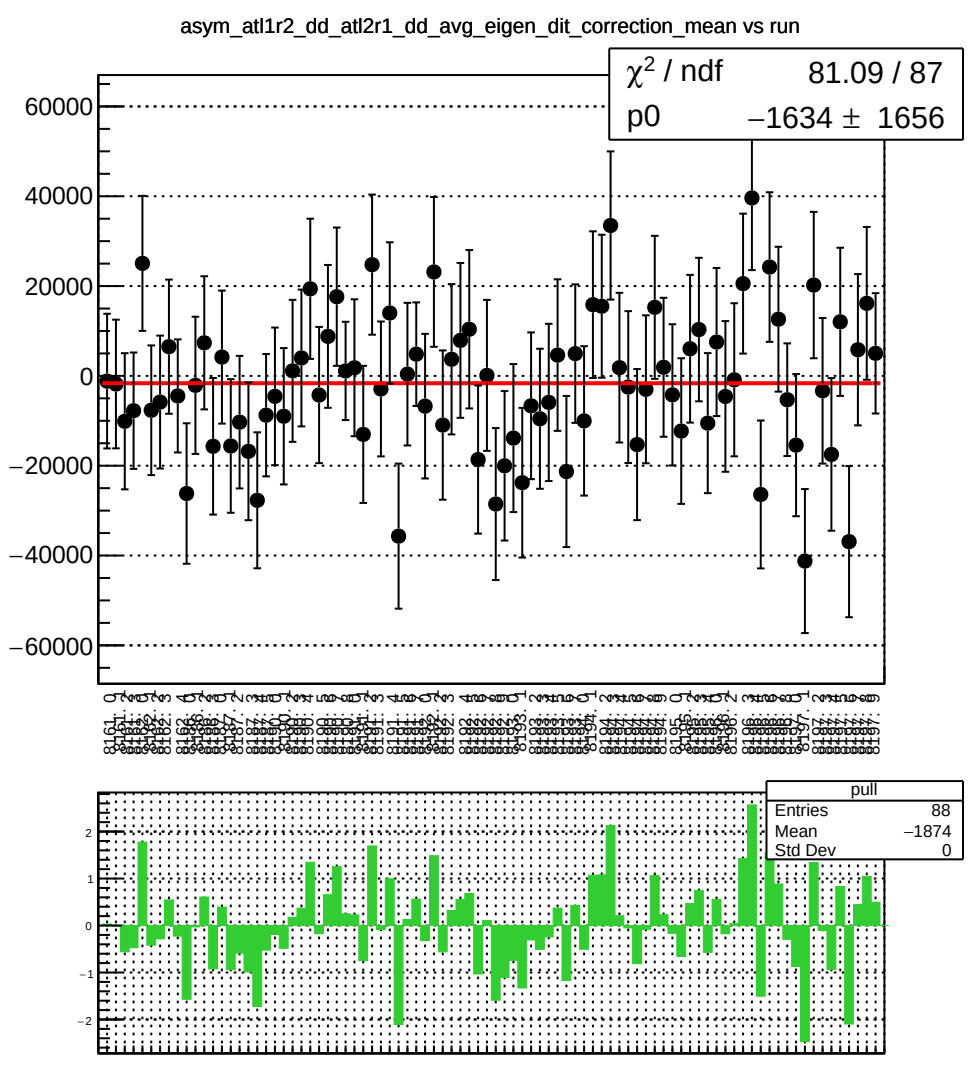

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 81.09 / 87
p0 −1634 ± 1656
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1874
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00122
Std Dev 0.9599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

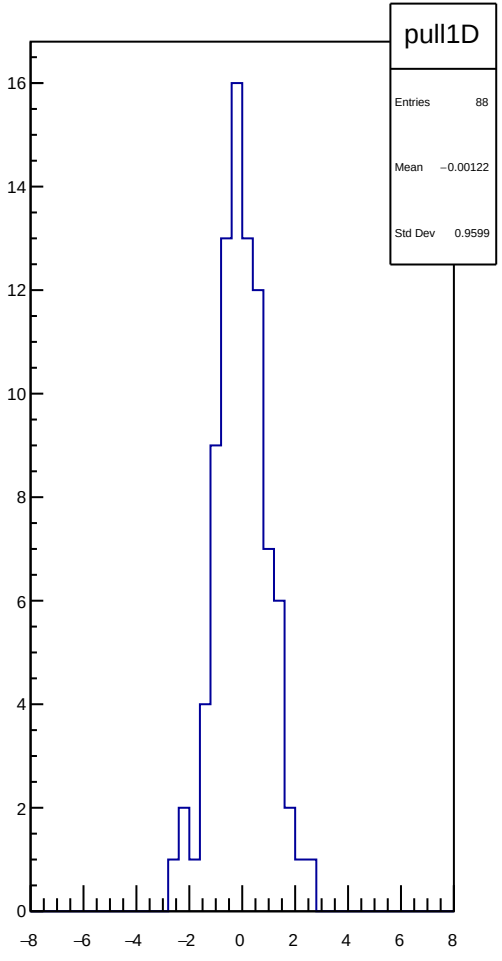

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3913 / 87
p0 1510 ± 1.171
1700
1650
1600
1550
1500
1450
1400
1350


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 102.9 / 87
p0 949.8 ± 1399
pull
Entries 88
Mean −103.1
Std Dev 0

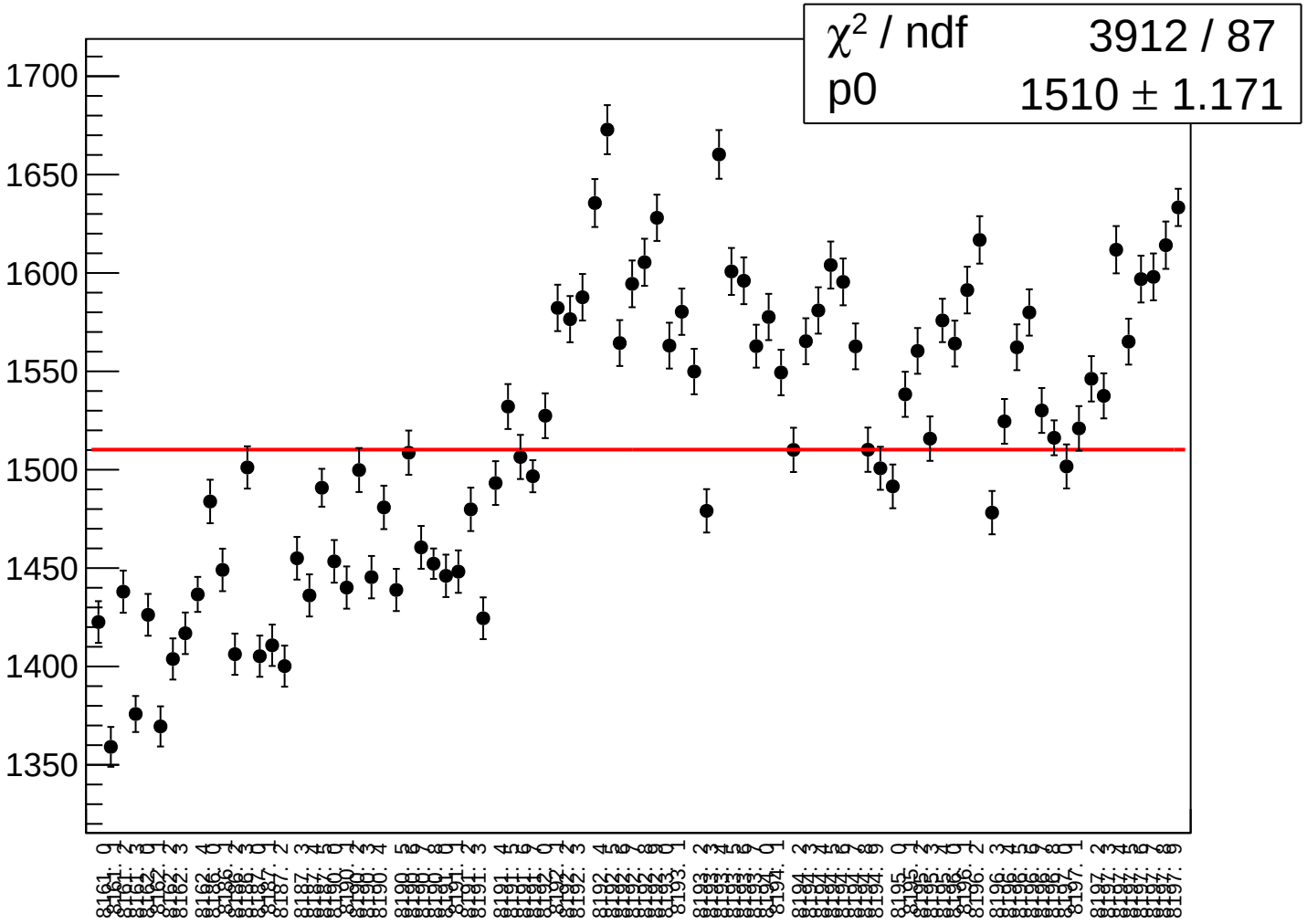

pull1D
Entries 88
Mean 0.01029
Std Dev 1.081

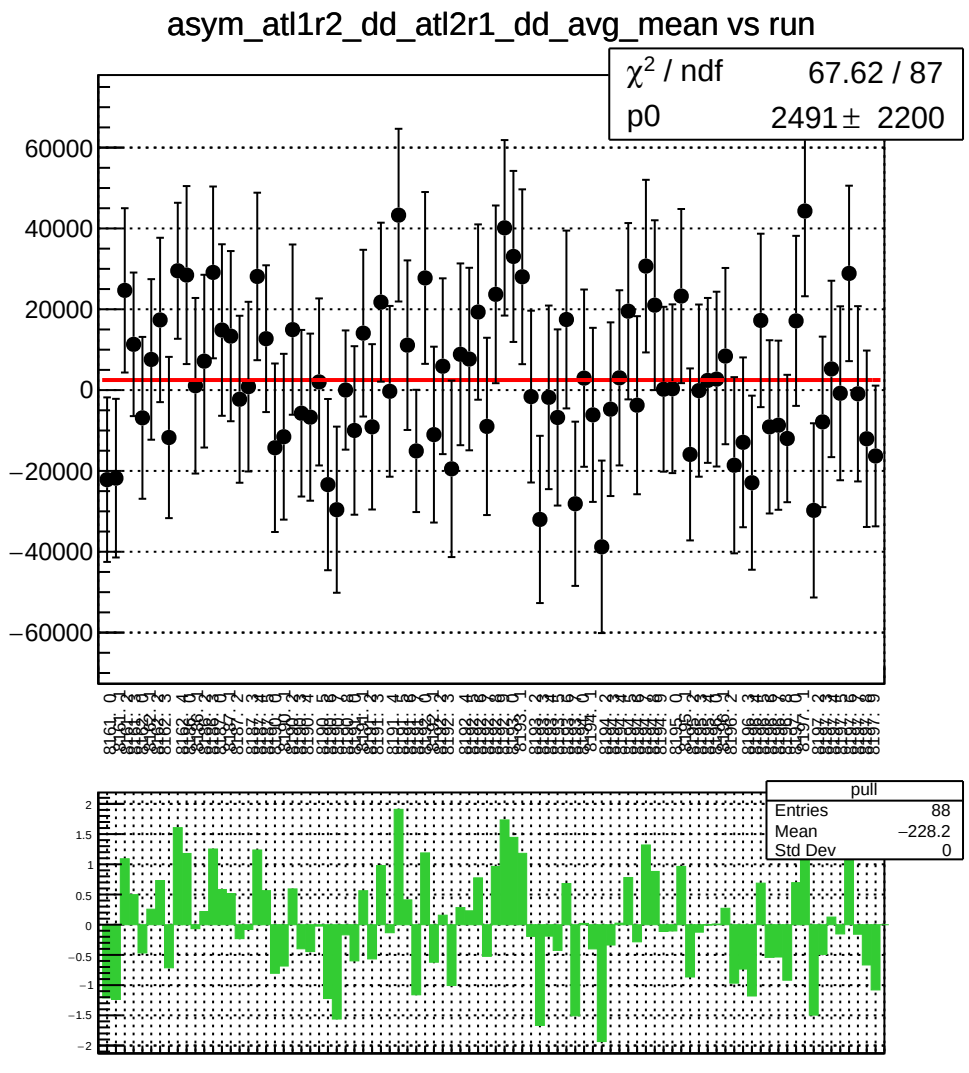

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 268.7 / 87
p0 1277 ± 0.9893
1340
1320
1300
1280
1260
1240

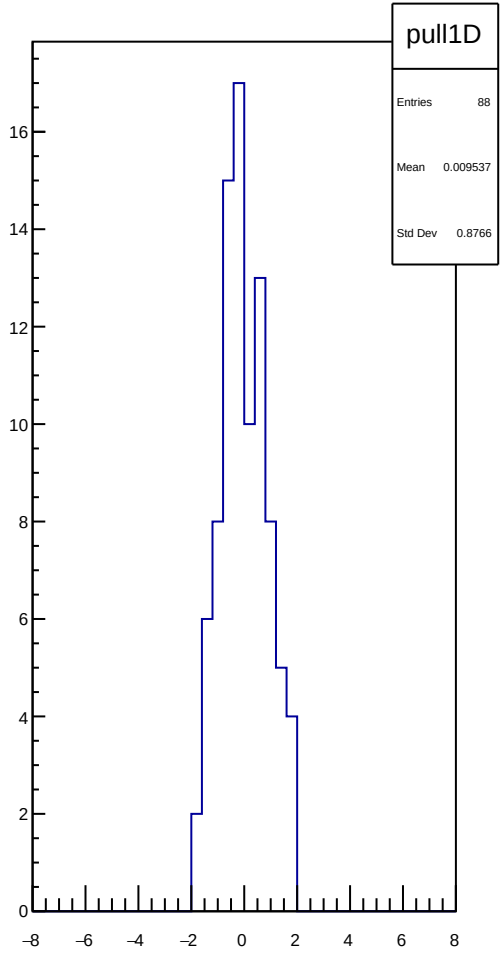

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.09 / 87
p0 −1634 ± 1656
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1874
Std Dev 0
2
1
0
−1
−2

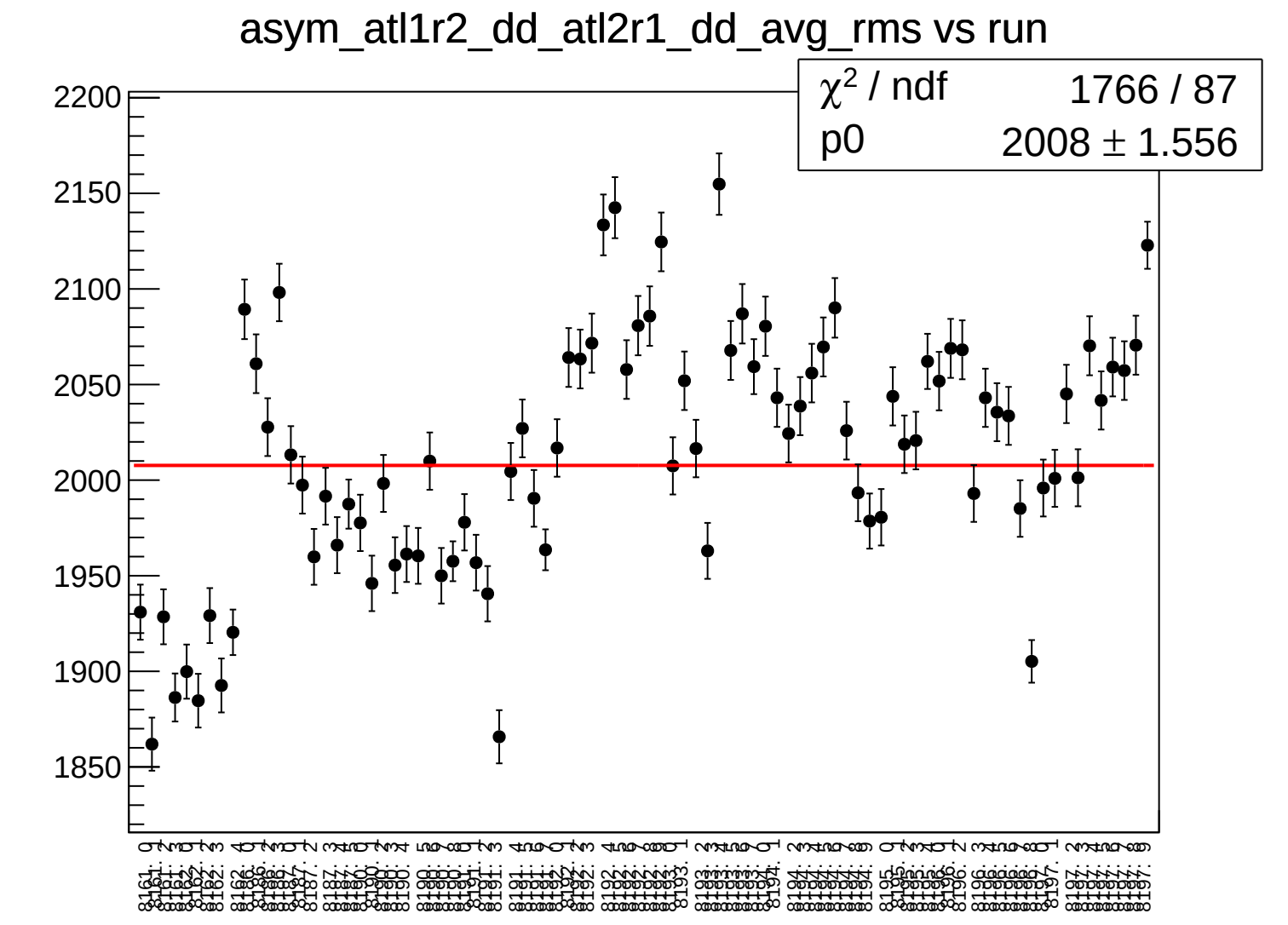

pull1D
Entries 88
Mean −0.00122
Std Dev 0.9599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

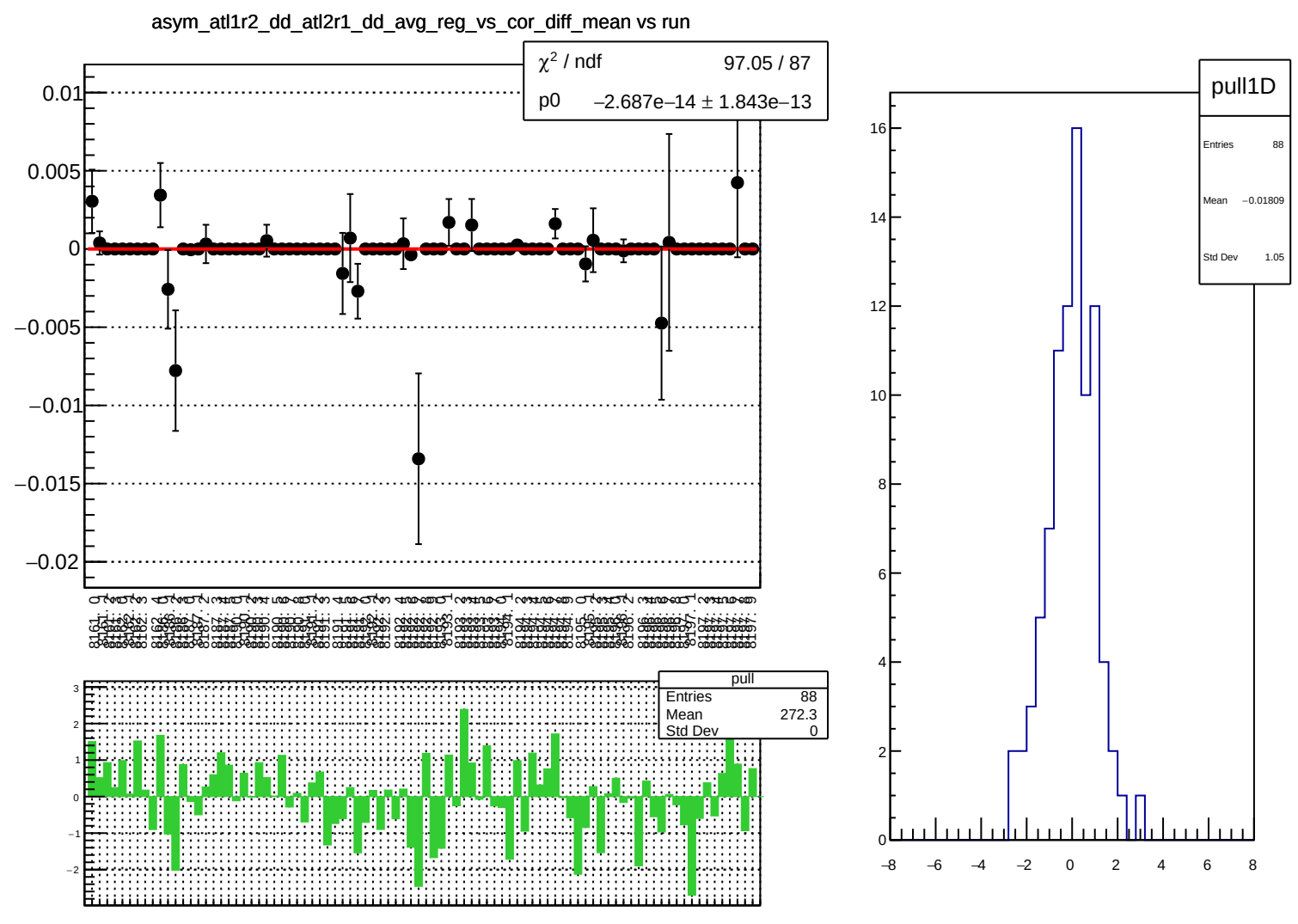
asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run

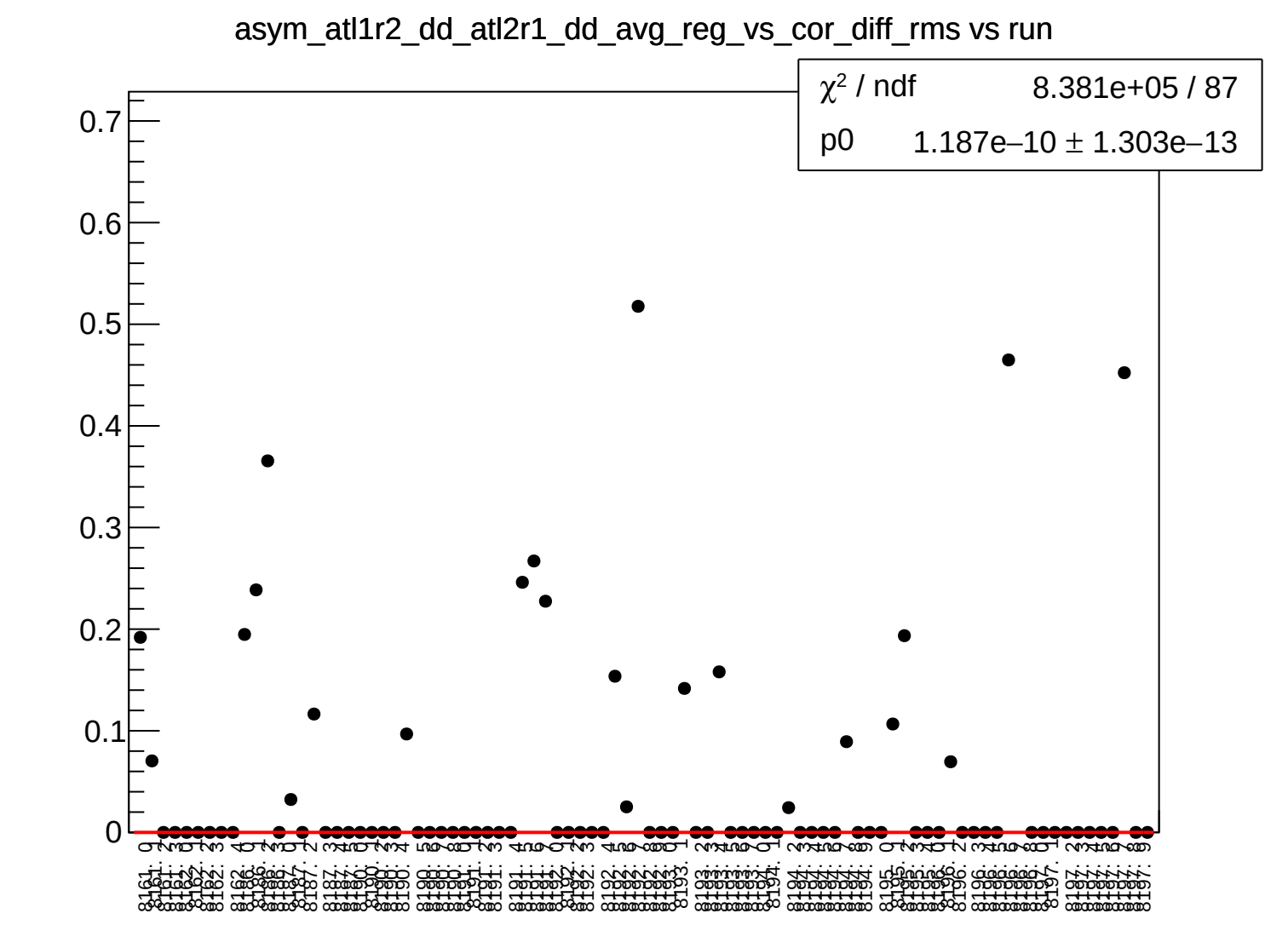


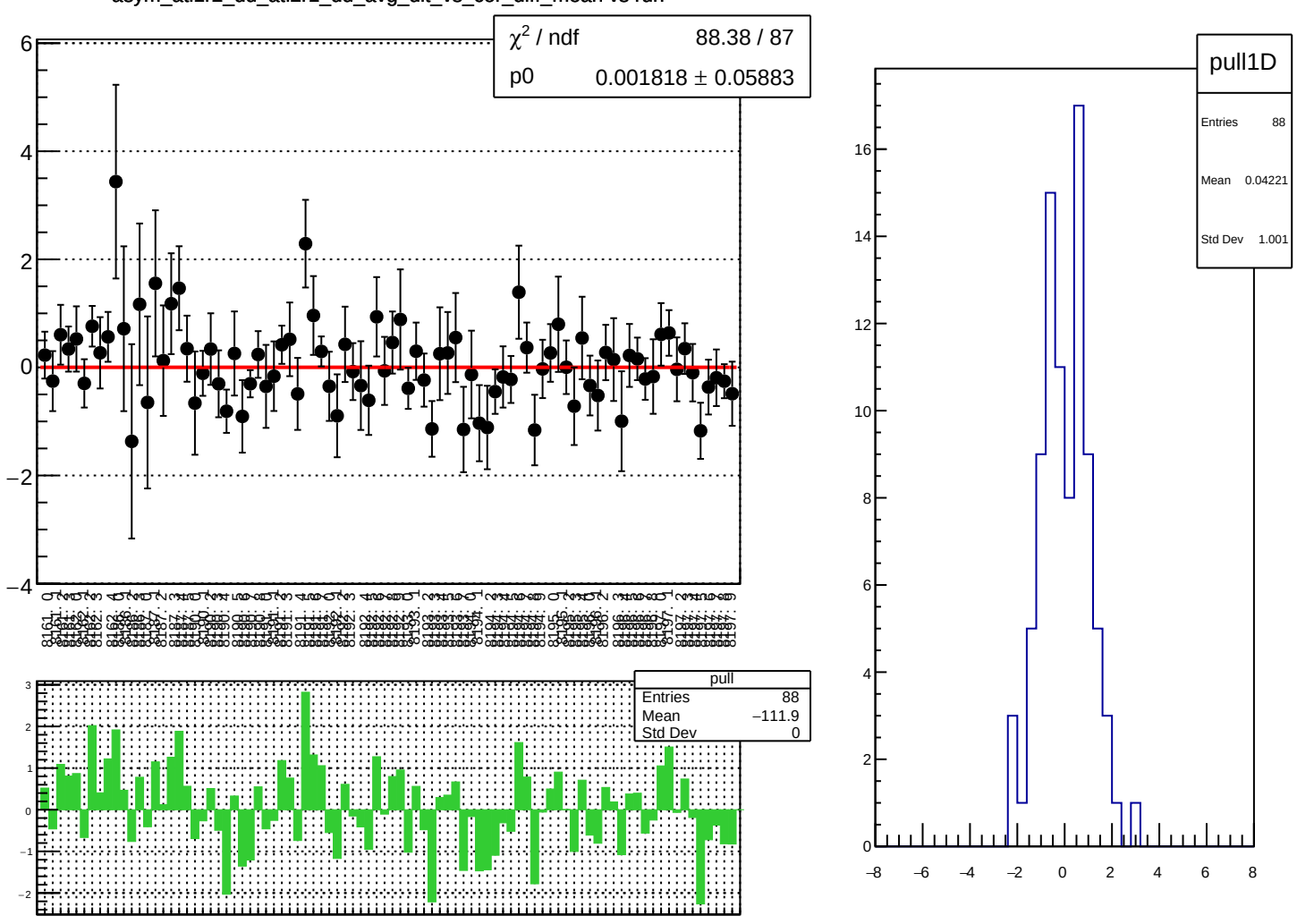

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 67.62 / 87
p0 2491 ± 2200
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −228.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

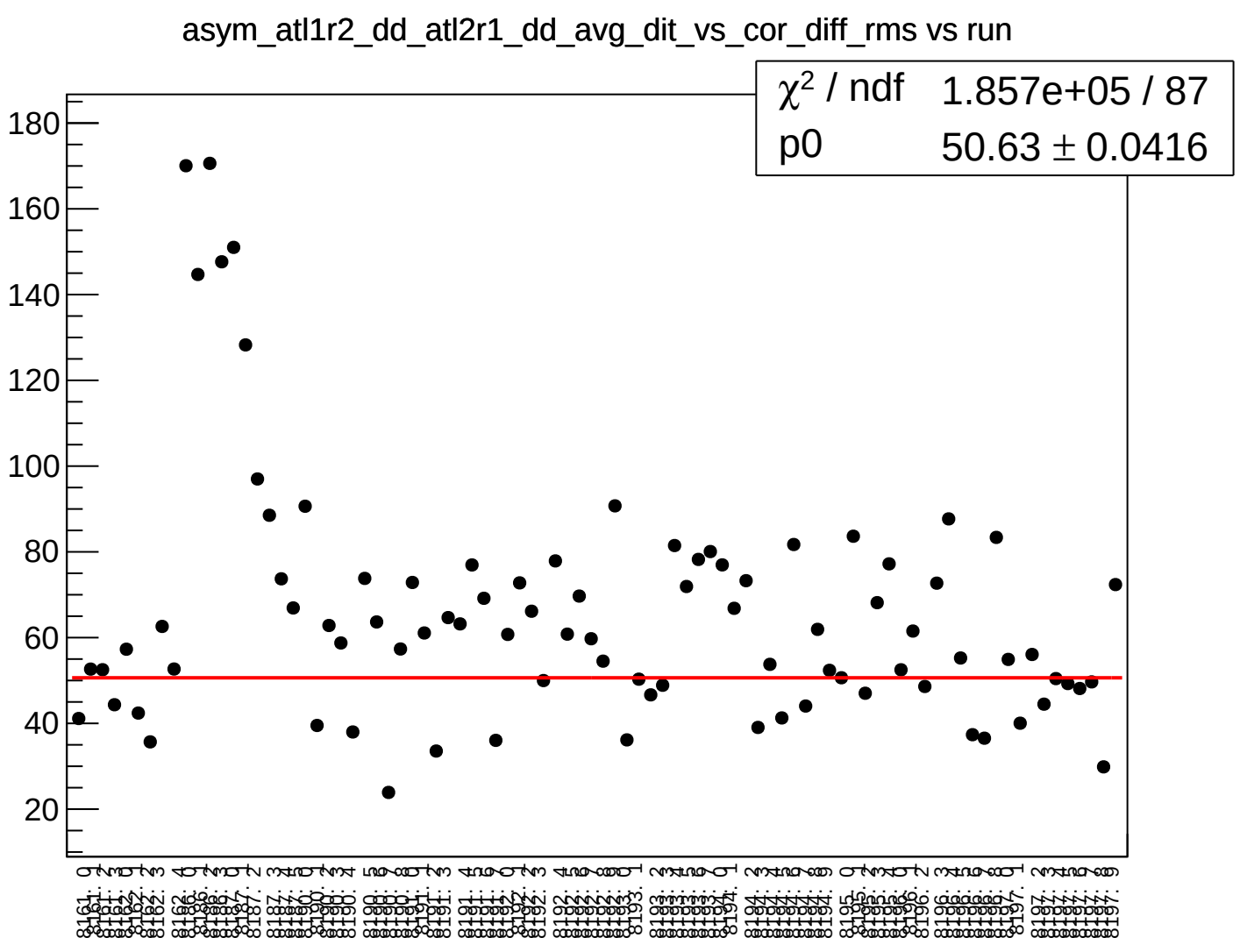

pull1D
Entries 88
Mean 0.009537
Std Dev 0.8766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

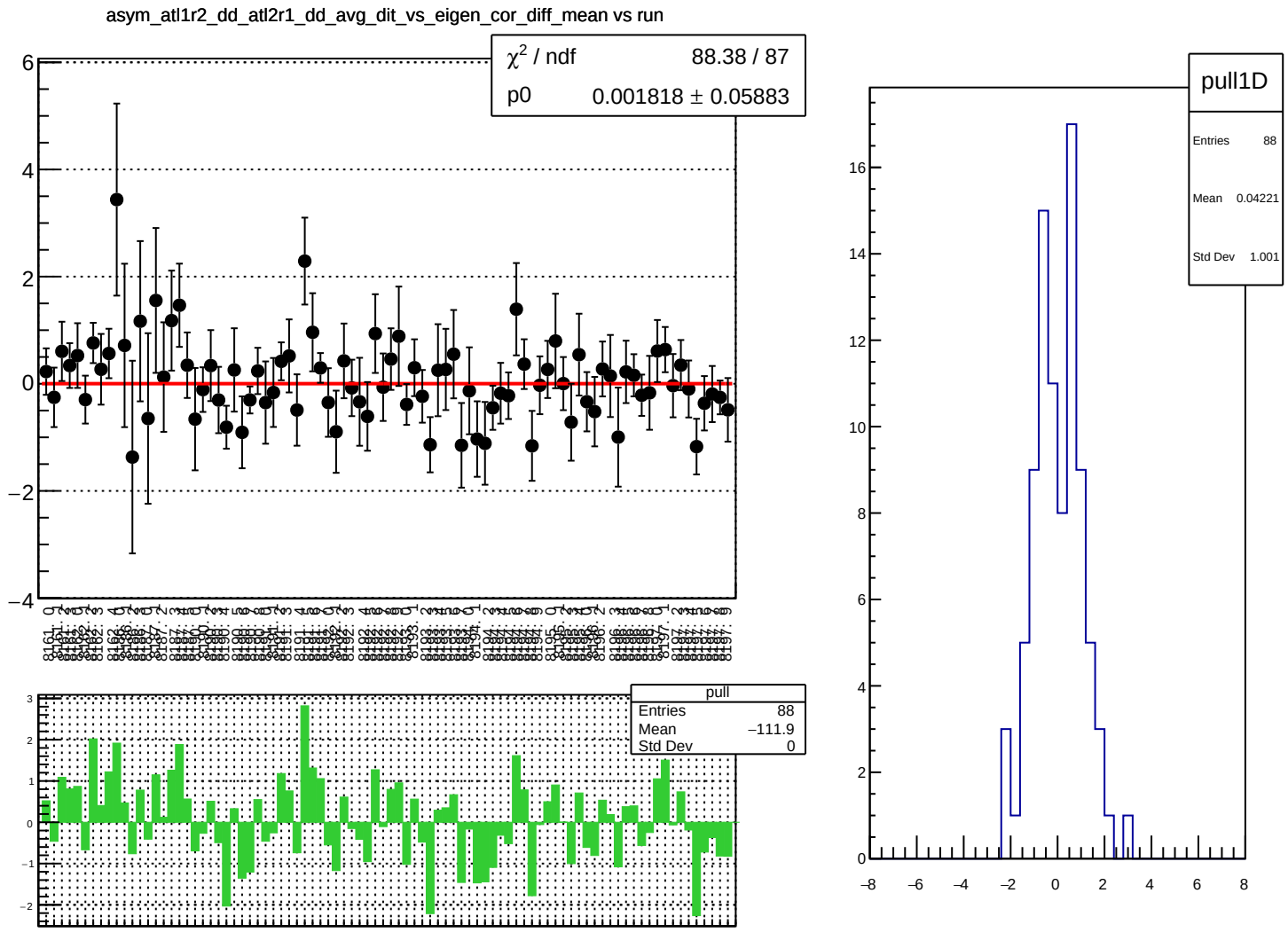

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1766 / 87
p0 2008 ± 1.556
2200
2150
2100
2050
2000
1950
1900
1850

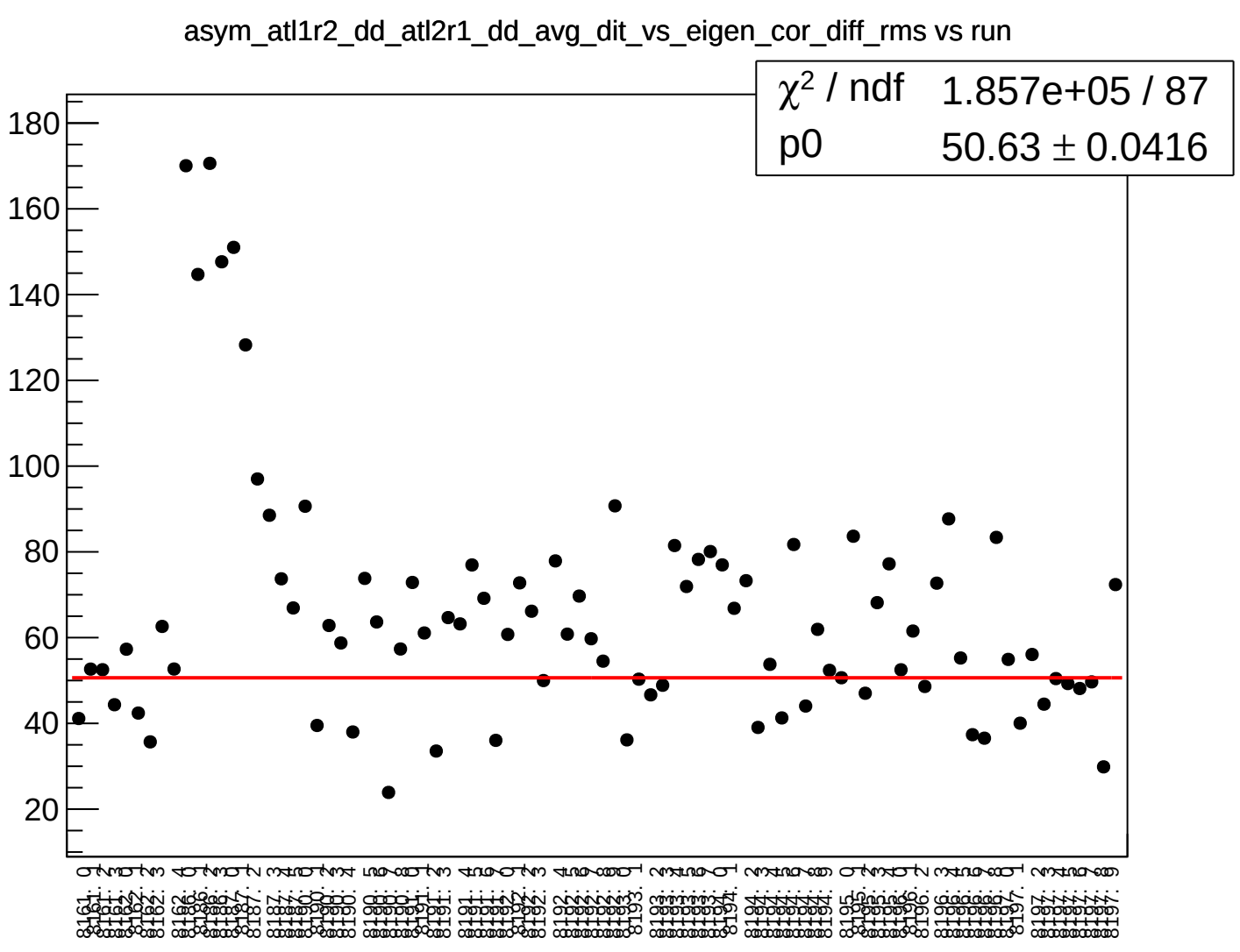

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.05 / 87
p0 −2.687e−14 ± 1.843e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean 272.3
Std Dev 0
pull1D
Entries 88
Mean −0.01809
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

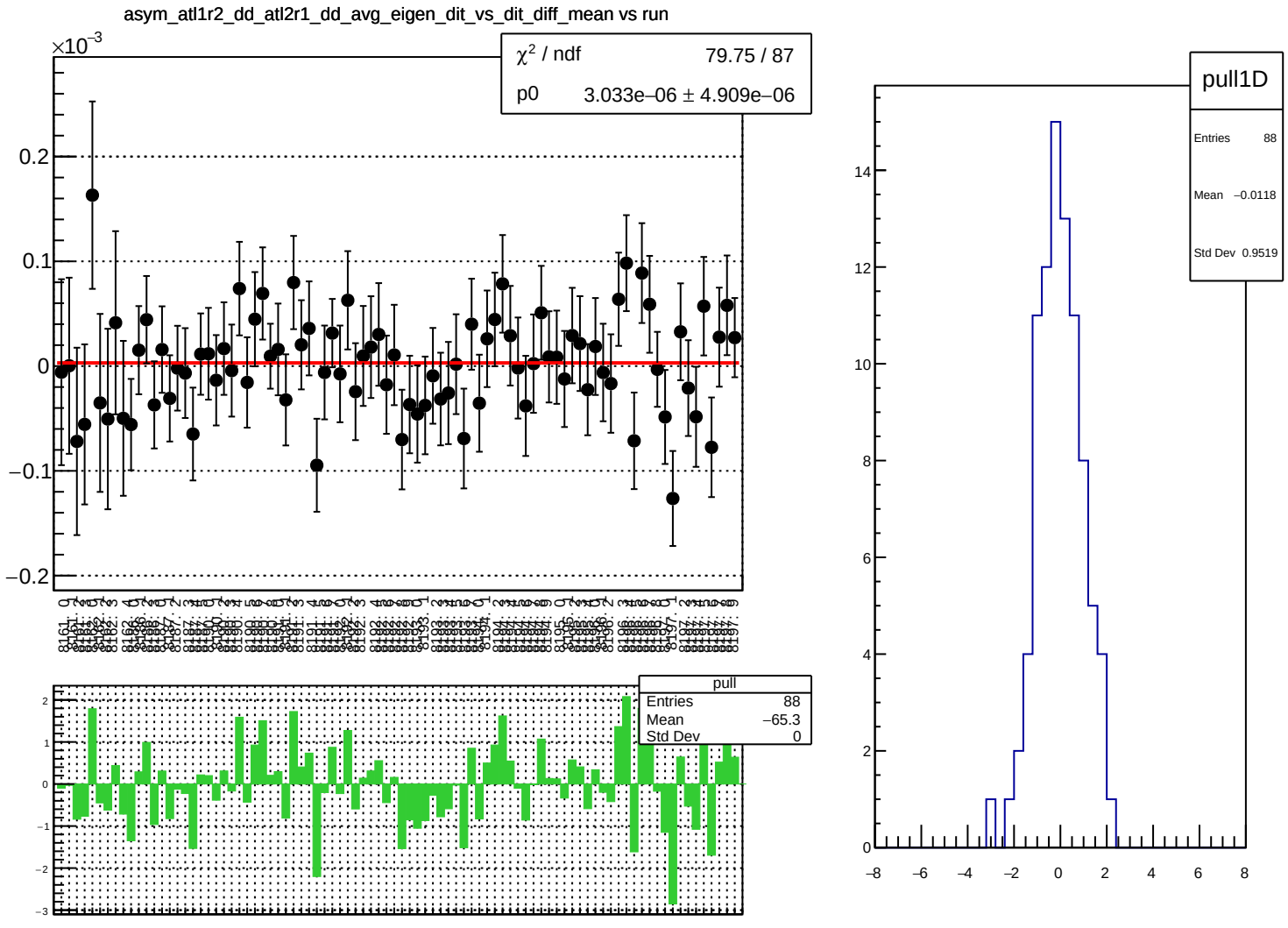

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.381e+05 / 87
p0 1.187e−10 ± 1.303e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

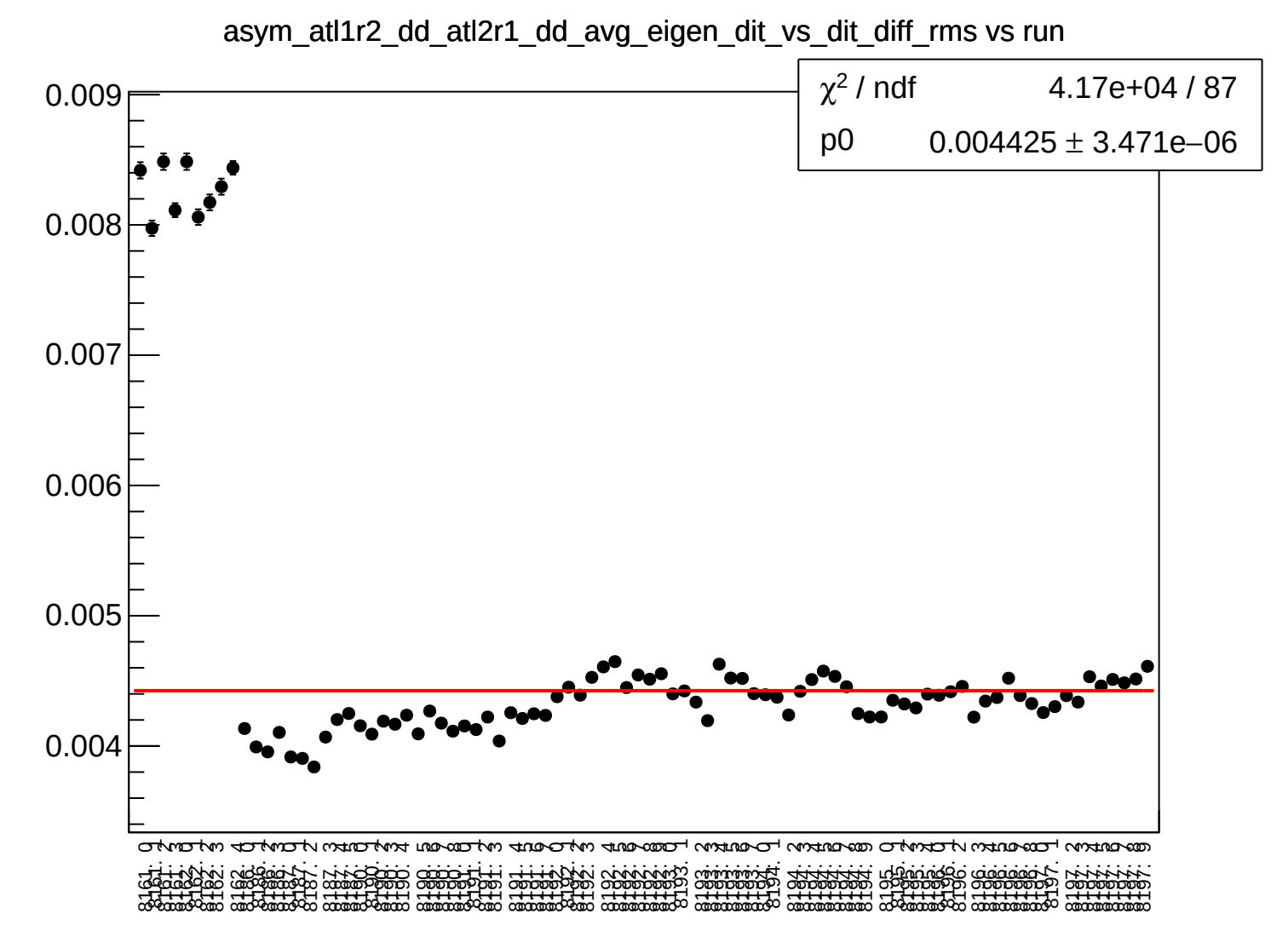

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 87
p0 0.001818 ± 0.05883
pull
Entries 88
Mean −111.9
Std Dev 0
pull1D
Entries 88
Mean 0.04221
Std Dev 1.001

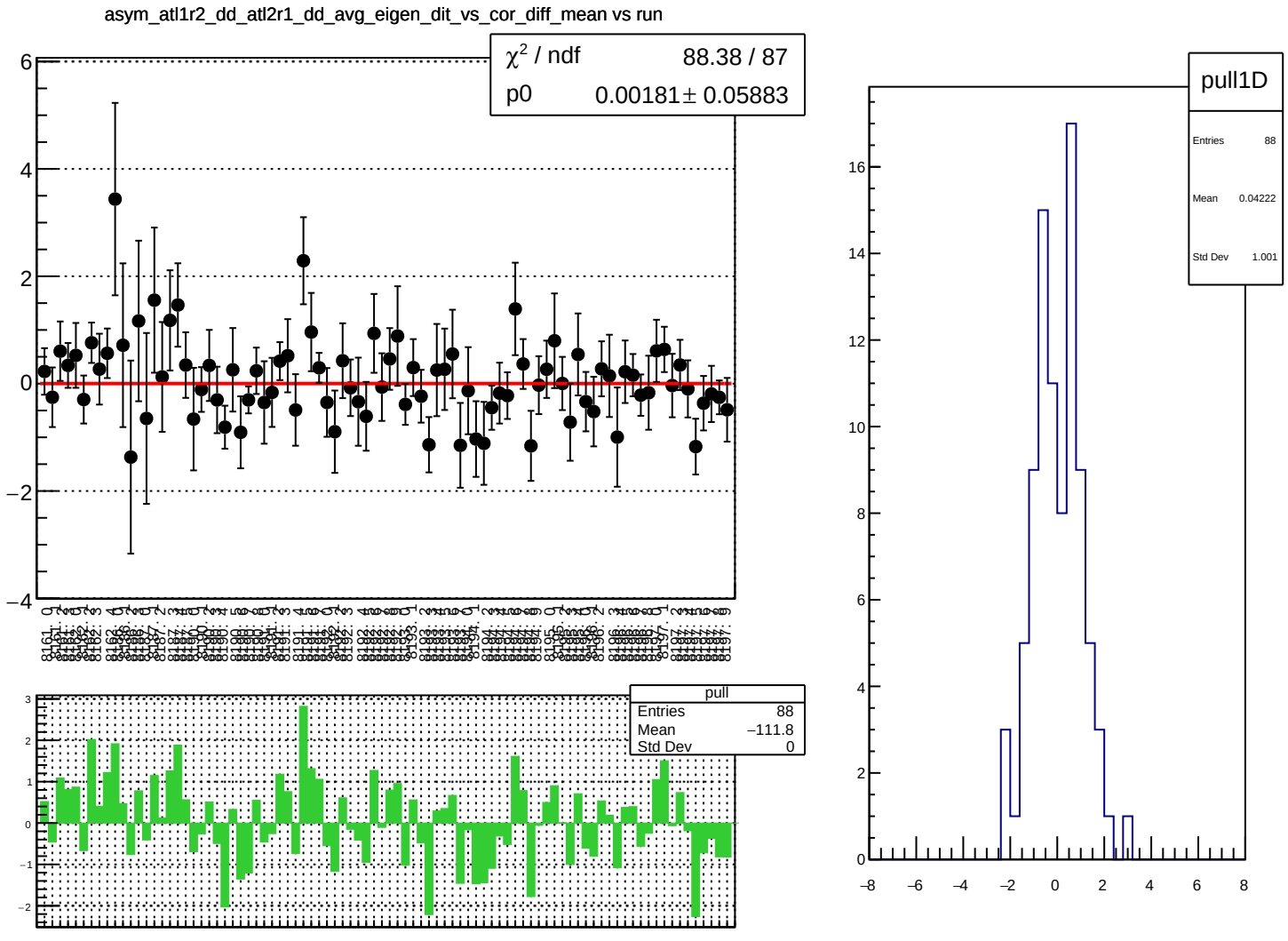

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.857e+05 / 87
p0 50.63 ± 0.0416
180
160
140
120
100
80
60
40
20

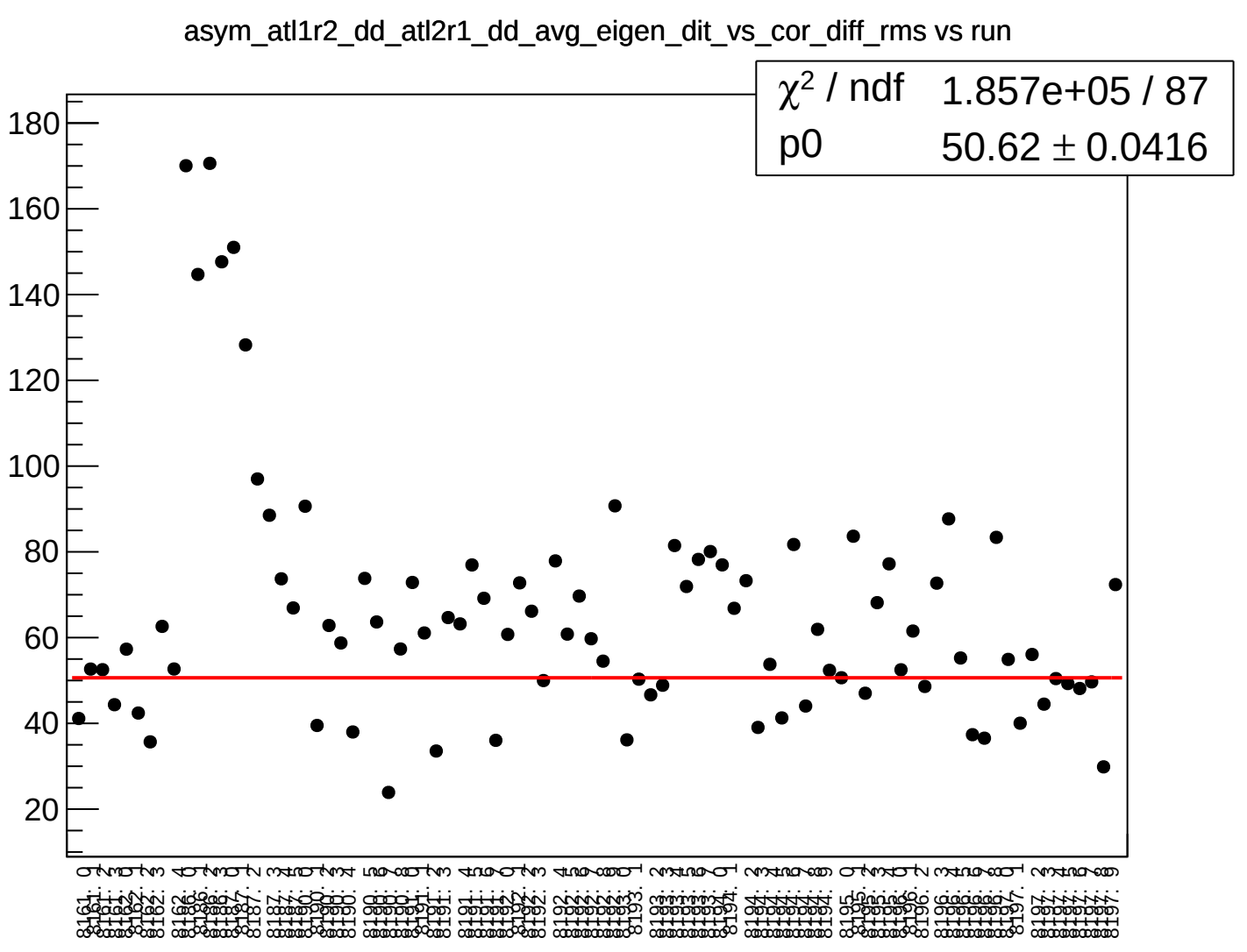

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 87
p0 0.001818 ± 0.05883
pull
Entries 88
Mean −111.9
Std Dev 0
pull1D
Entries 88
Mean 0.04221
Std Dev 1.001

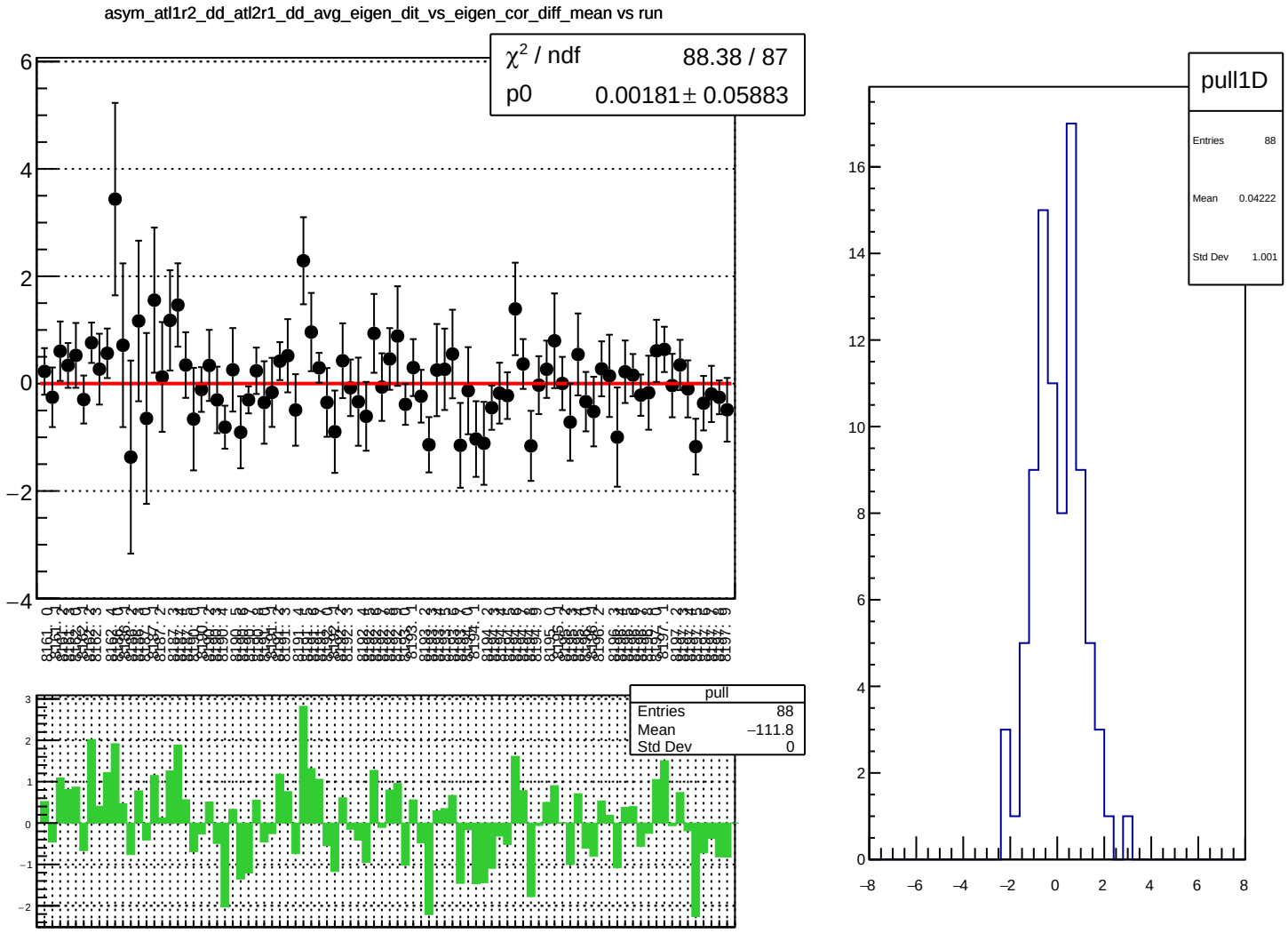

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.857e+05 / 87
p0 50.63 ± 0.0416
180
160
140
120
100
80
60
40
20

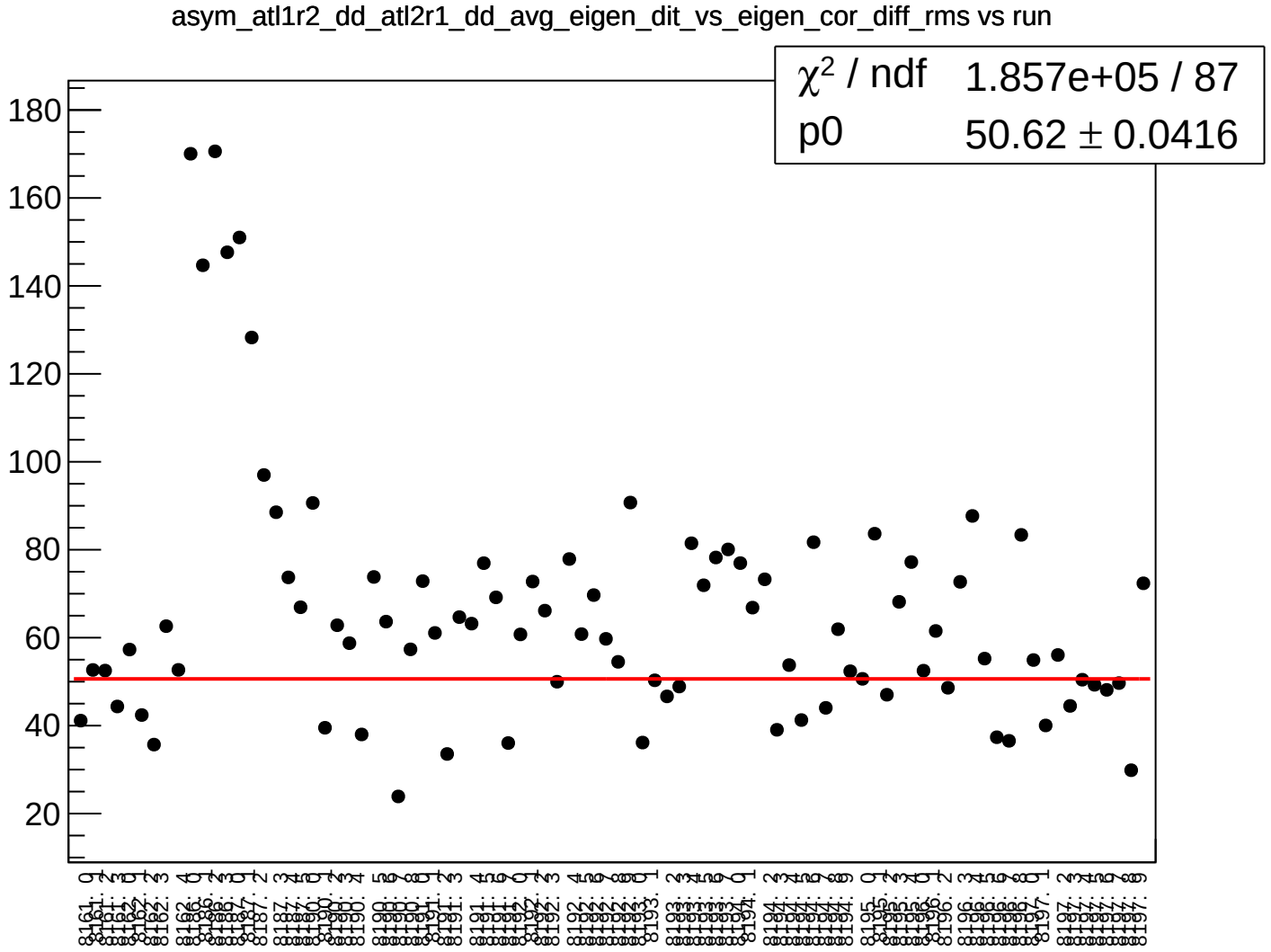

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.75 / 87
p0 3.033e−06 ± 4.909e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −65.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0118
Std Dev 0.9519
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

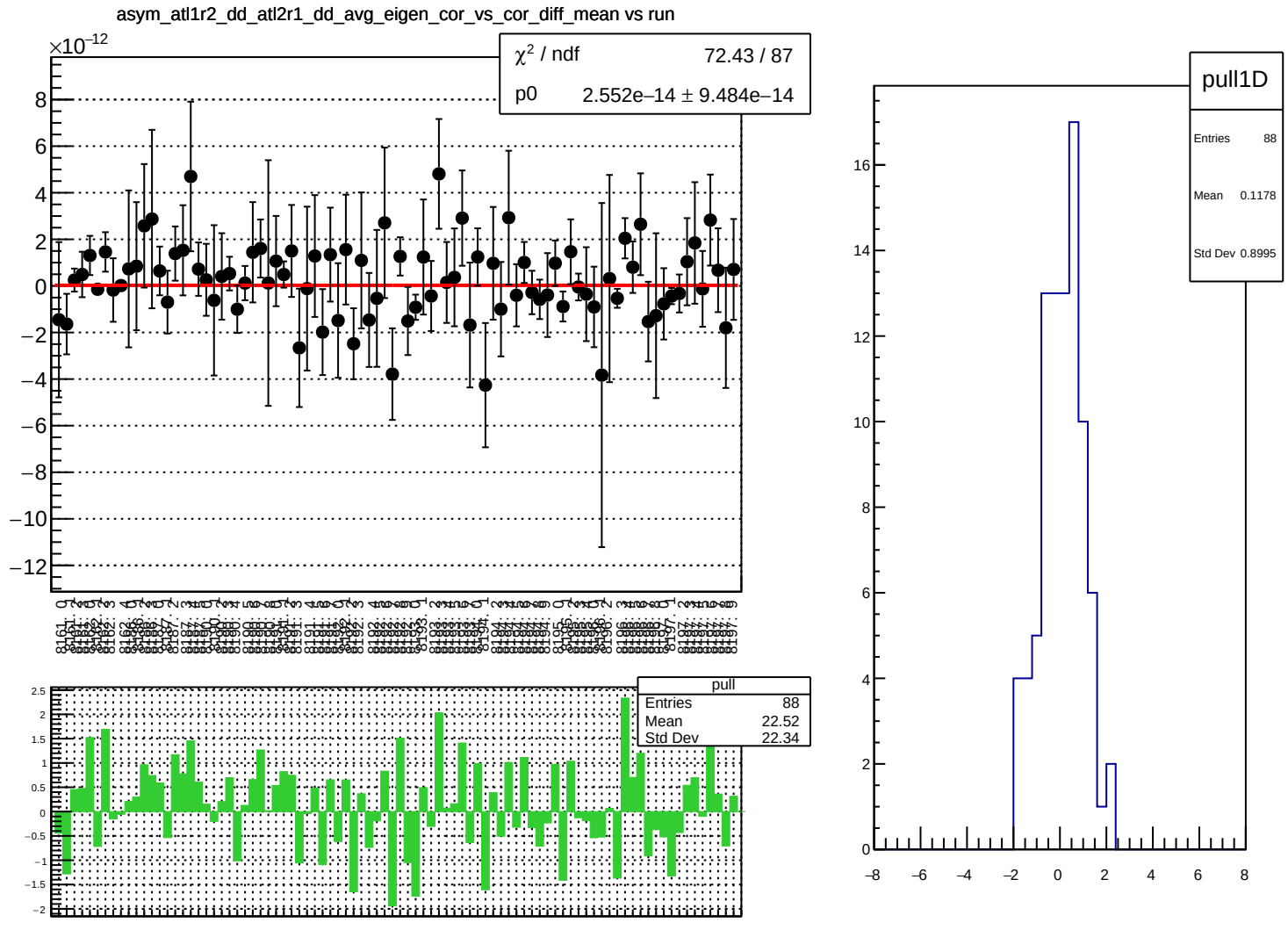

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.17e+04 / 87
p0 0.004425 ± 3.471e−06
0.009
0.008
0.007
0.006
0.005
0.004

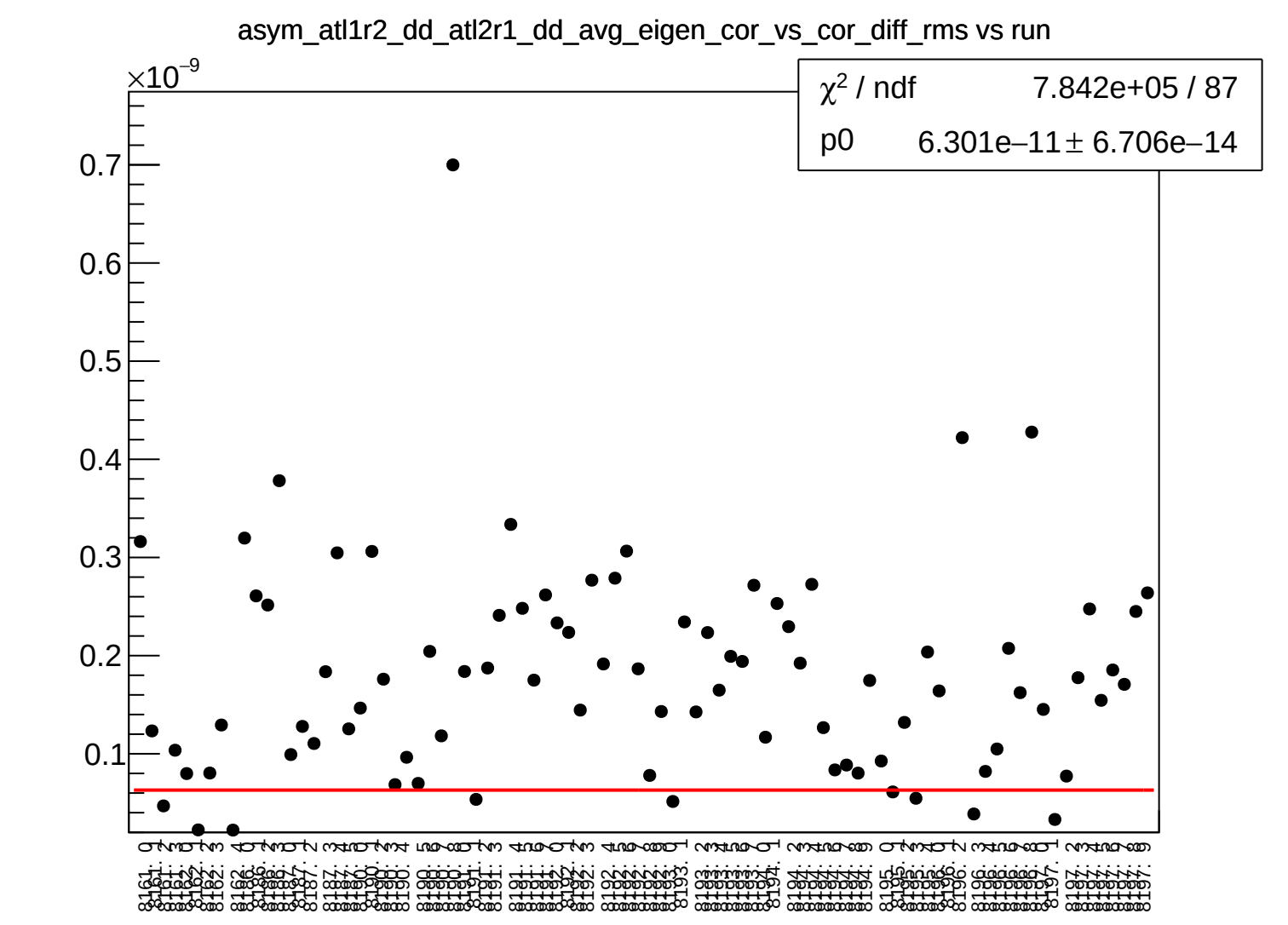

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 87
p0 0.00181 ± 0.05883
pull
Entries 88
Mean −111.8
Std Dev 0
pull1D
Entries 88
Mean 0.04222
Std Dev 1.001

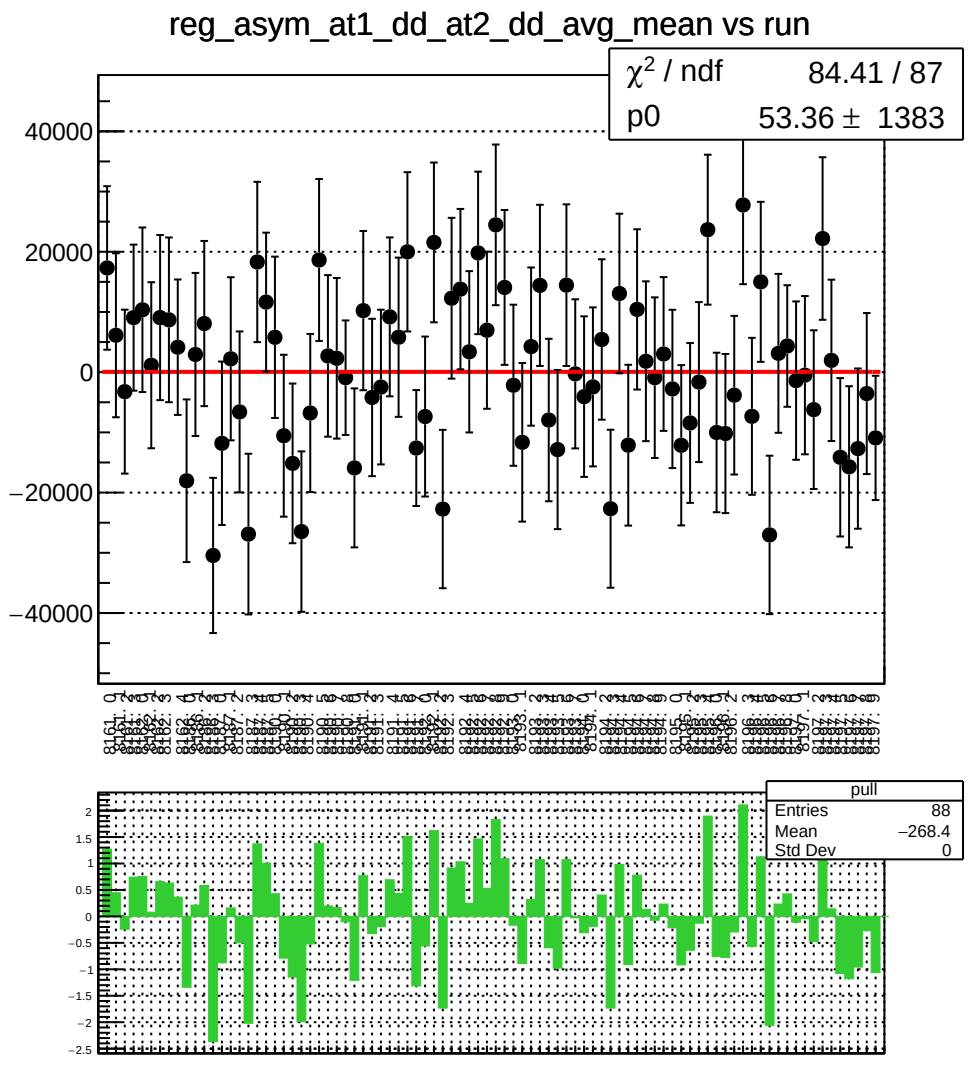

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.857e+05 / 87
p0 50.62 ± 0.0416
180
160
140
120
100
80
60
40
20

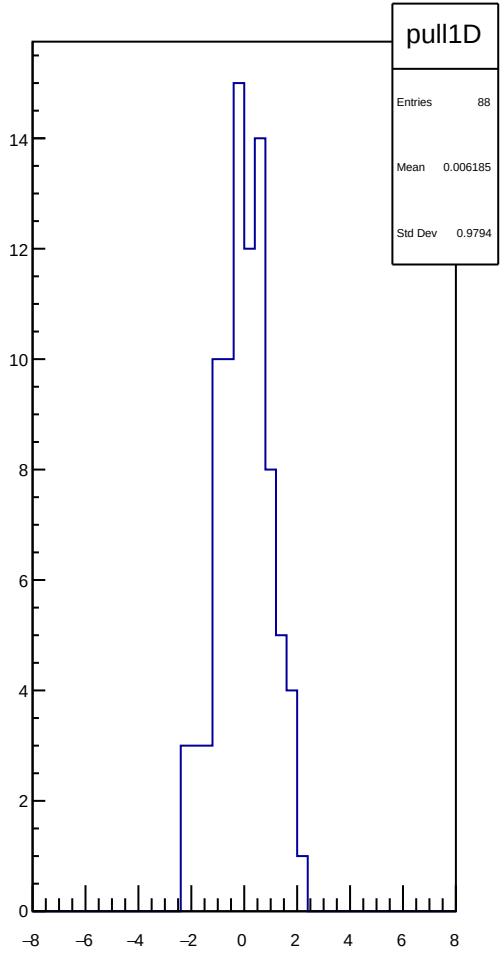

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 87
p0 0.00181 ± 0.05883
pull
Entries 88
Mean −111.8
Std Dev 0
pull1D
Entries 88
Mean 0.04222
Std Dev 1.001

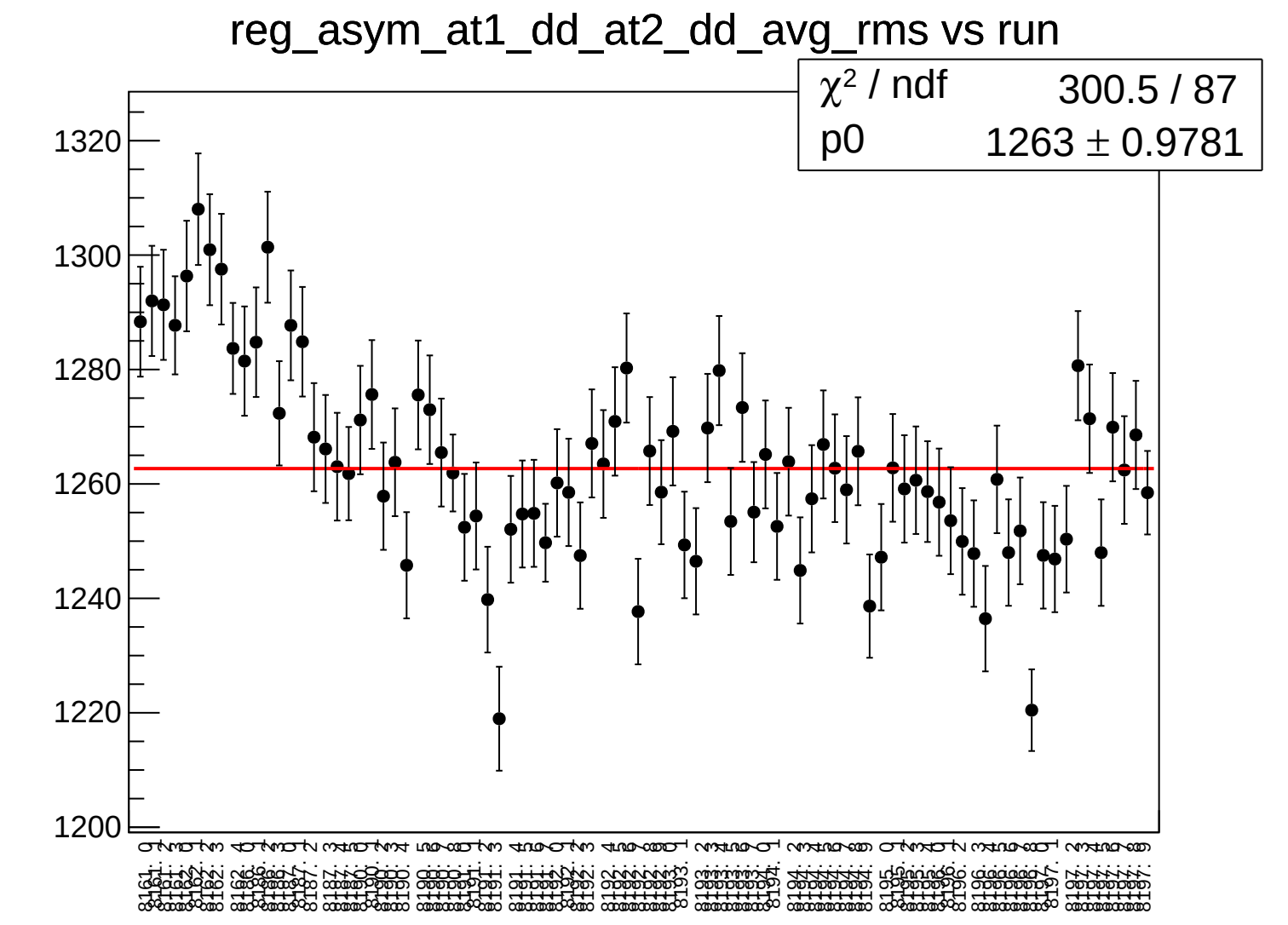

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.857e+05 / 87
p0 50.62 ± 0.0416
180
160
140
120
100
80
60
40
20

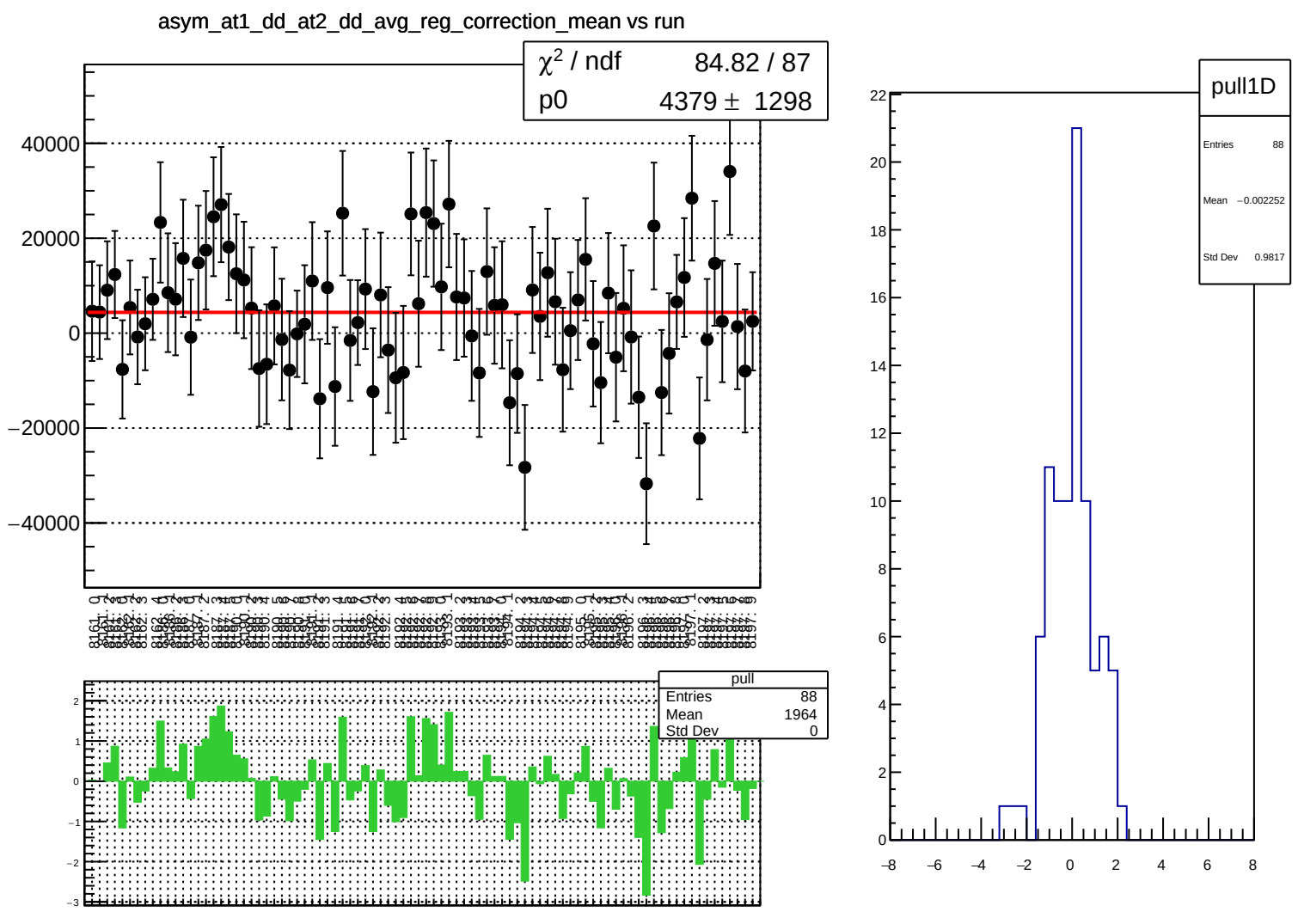

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 72.43 / 87
p0 2.552e−14 ± 9.484e−14
pull
Entries 88
Mean 22.52
Std Dev 22.34
pull1D
Entries 88
Mean 0.1178
Std Dev 0.8995

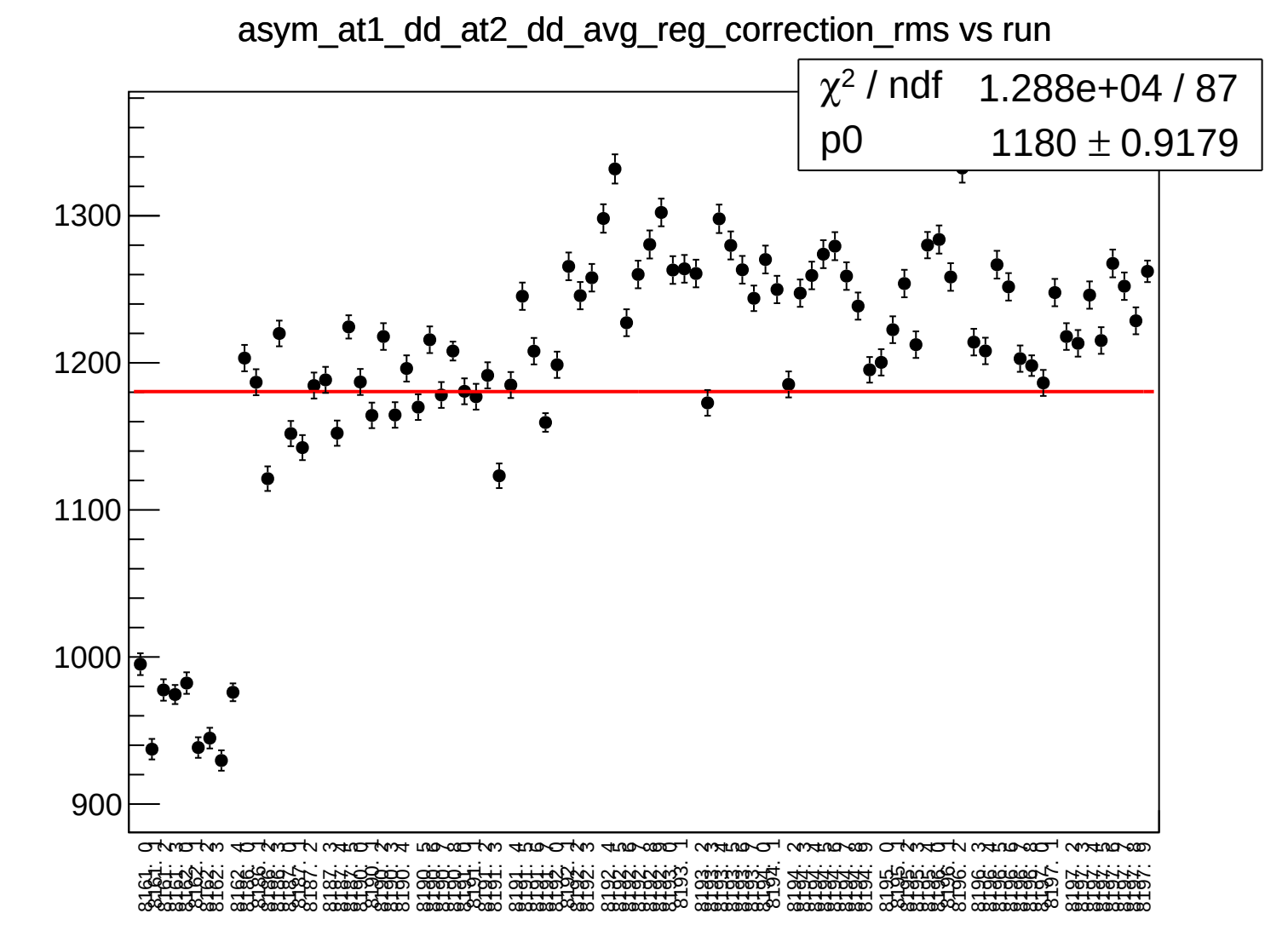

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.842e+05 / 87
p0 6.301e−11 ± 6.706e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

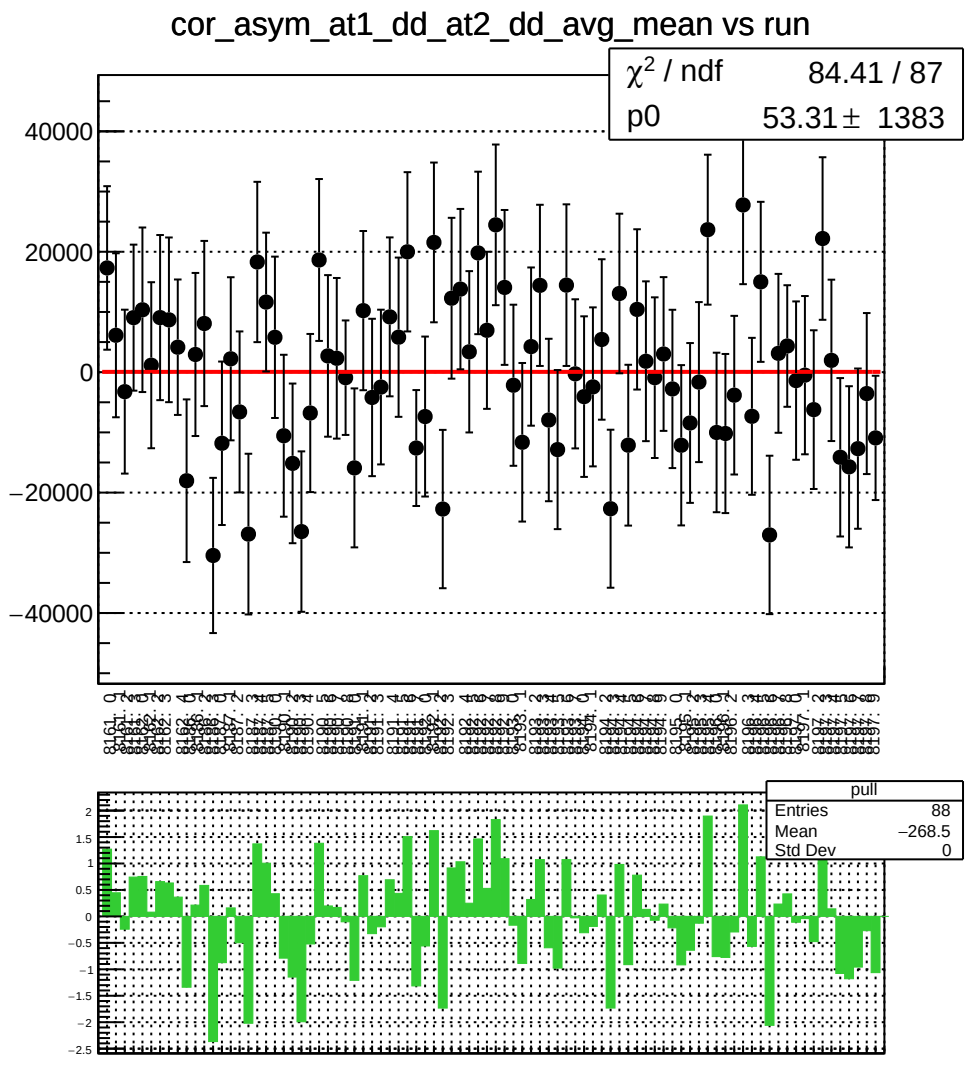

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.41 / 87
p0 53.36 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −268.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

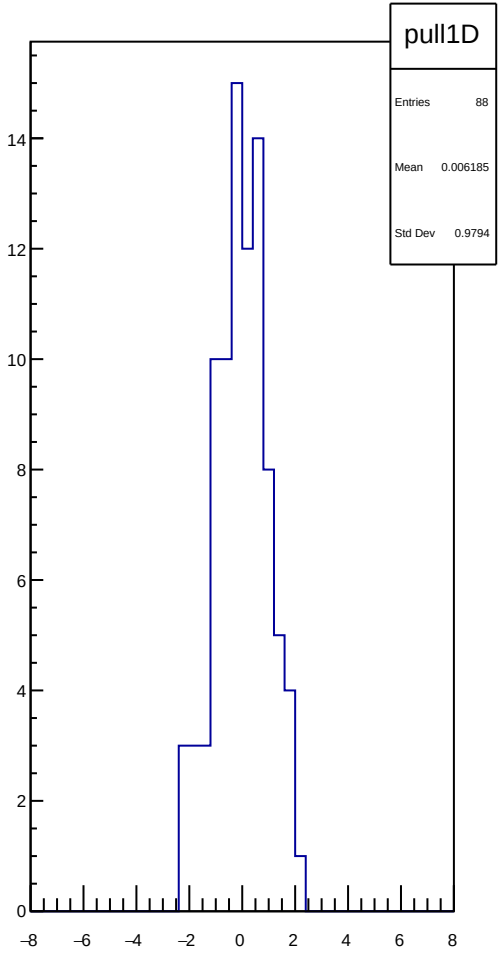

pull1D
Entries 88
Mean 0.006185
Std Dev 0.9794
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

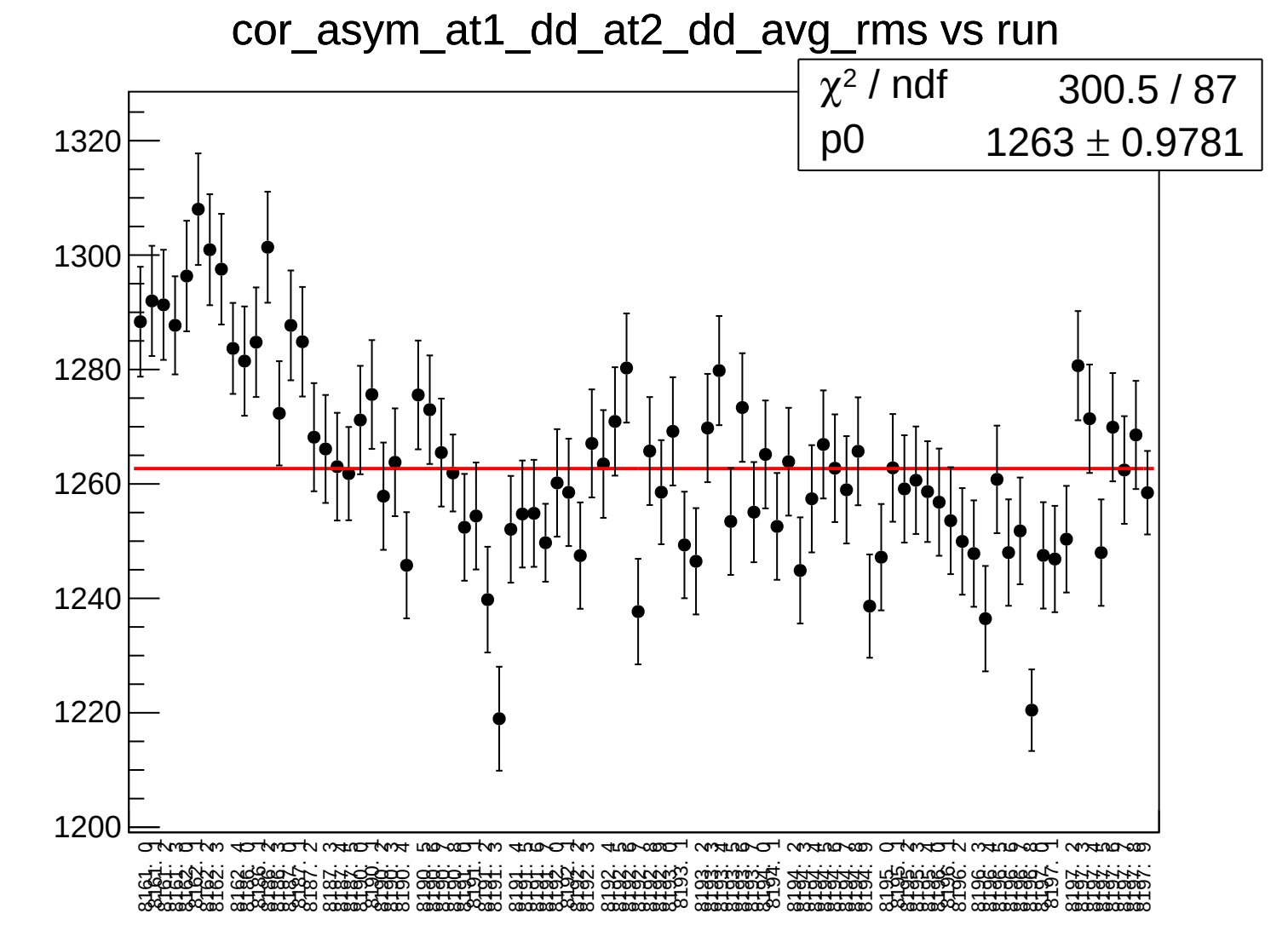

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 300.5 / 87
p0 1263 ± 0.9781
1320
1300
1280
1260
1240
1220
1200

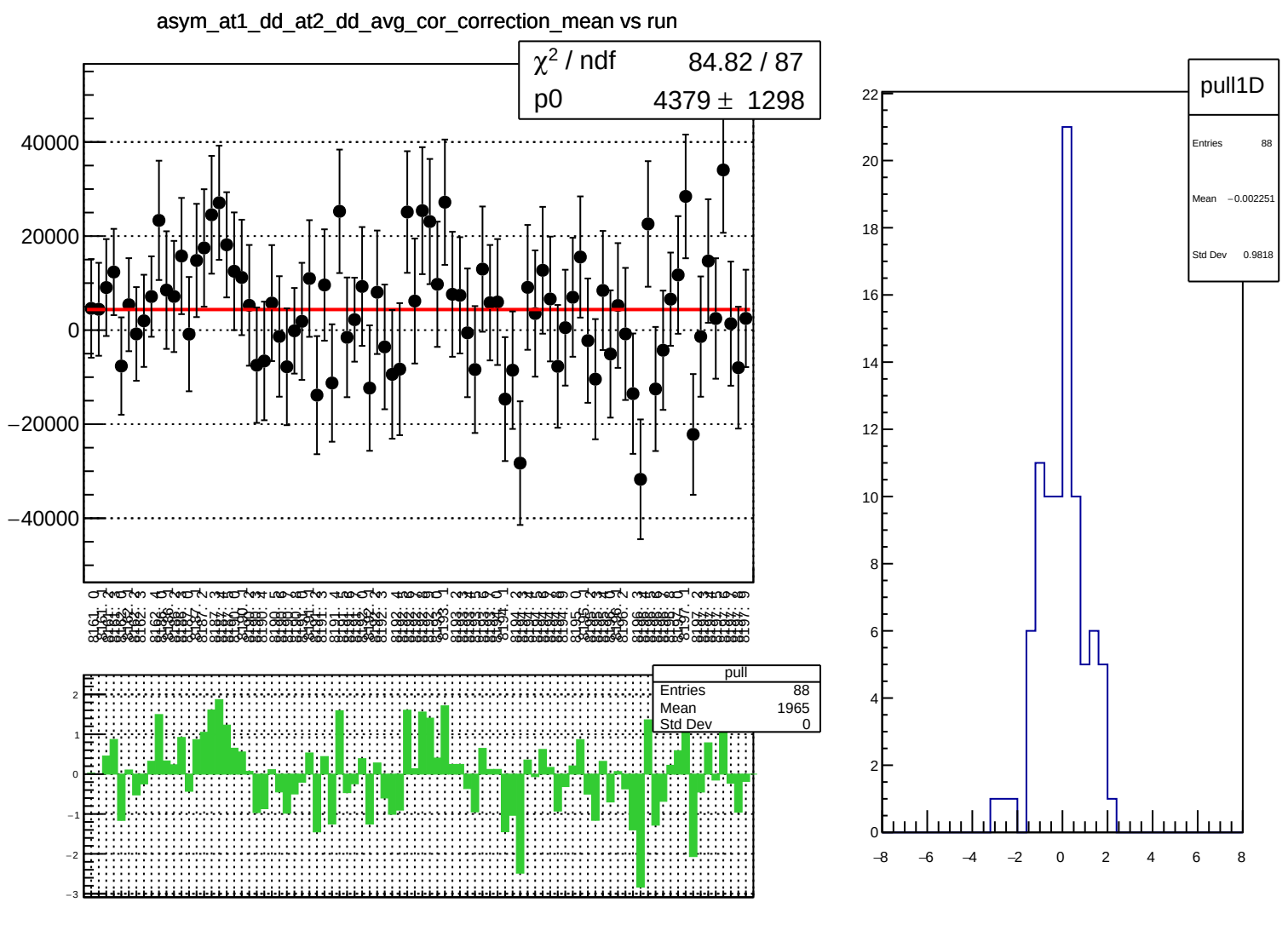

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 84.82 / 87
p0 4379 ± 1298
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1964
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.002252
Std Dev 0.9817
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

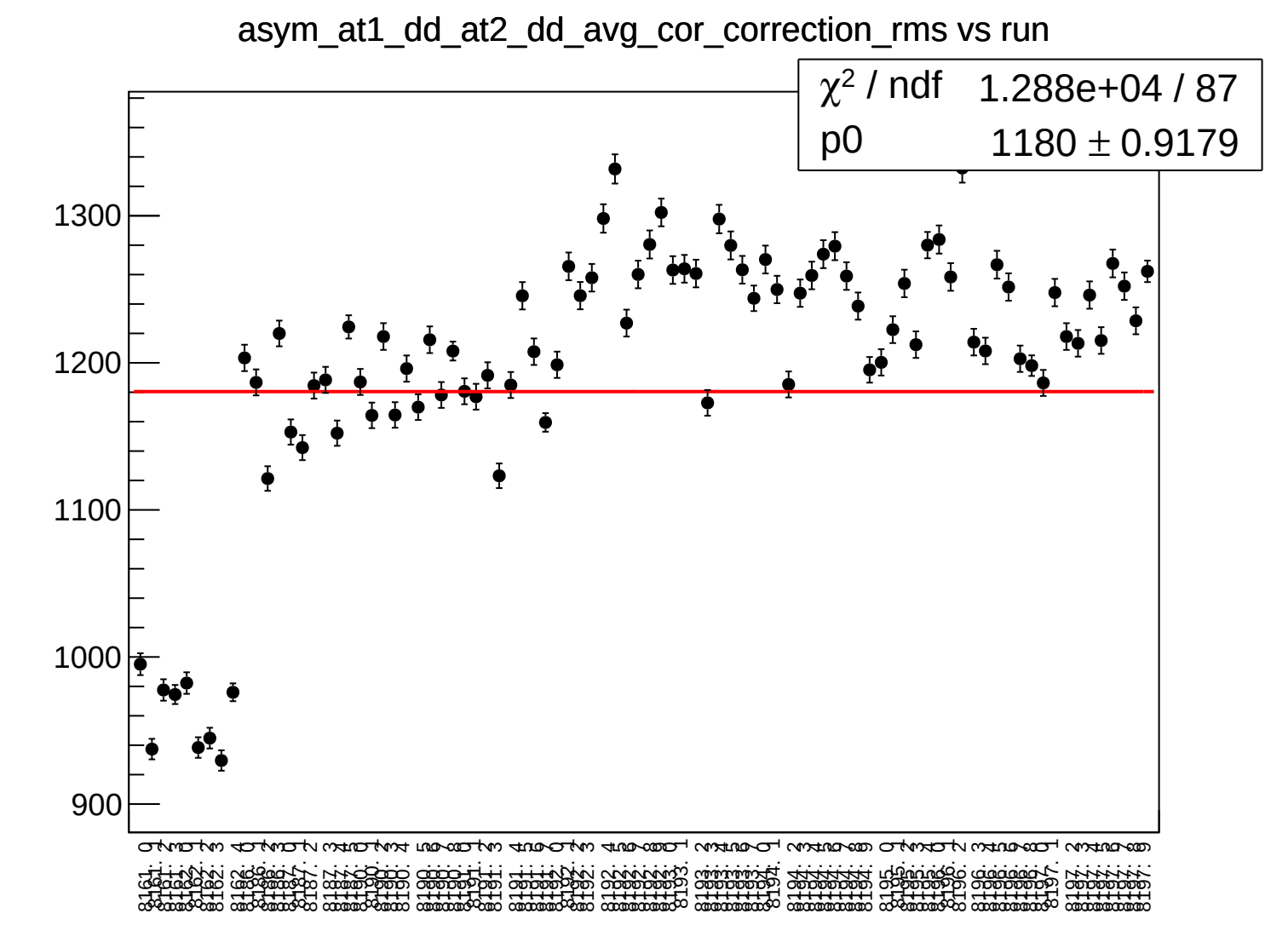

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.288e+04 / 87
p0 1180 ± 0.9179
1300
1200
1100
1000
900

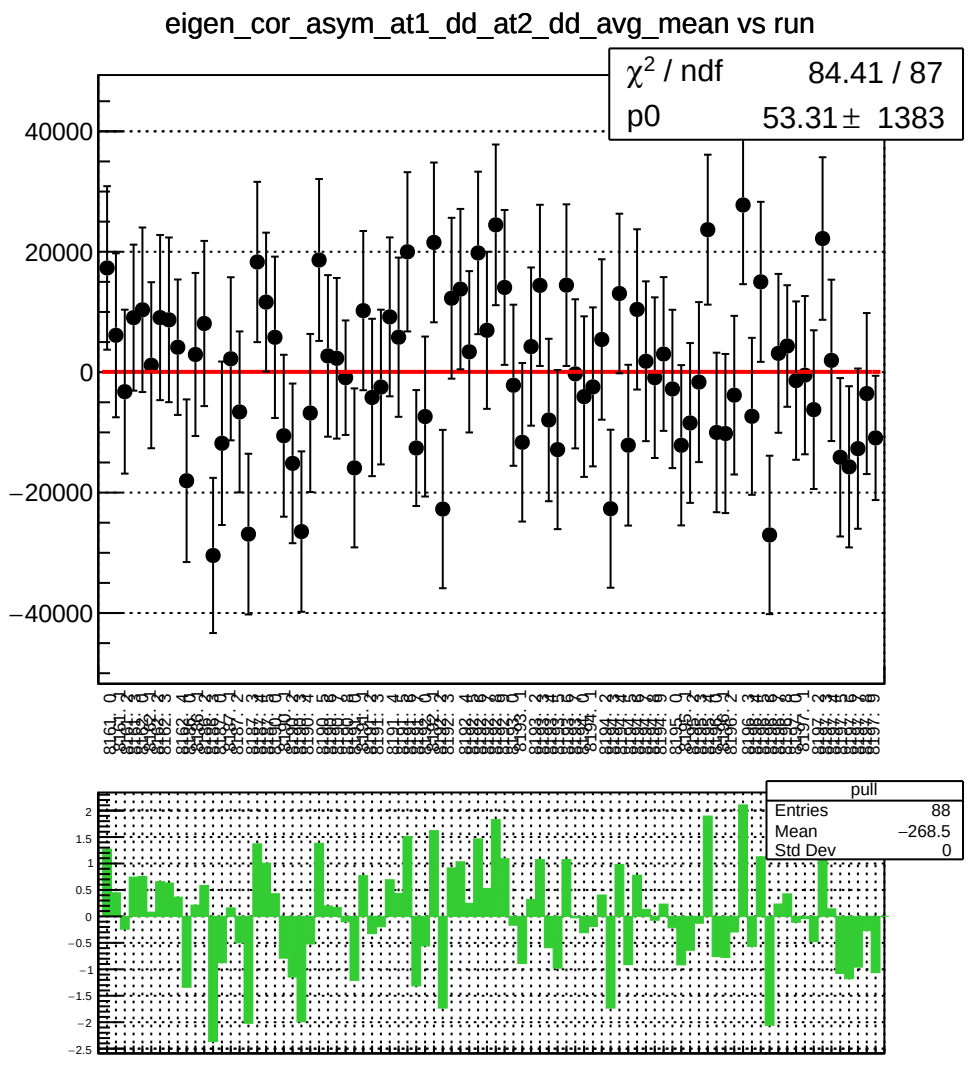

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.41 / 87
p0 53.31 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −268.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

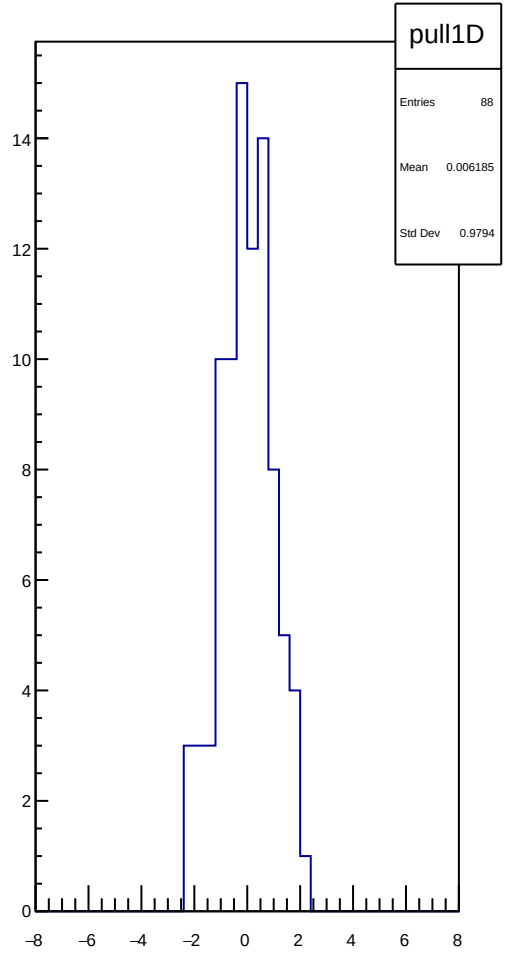

pull1D
Entries 88
Mean 0.006185
Std Dev 0.9794
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

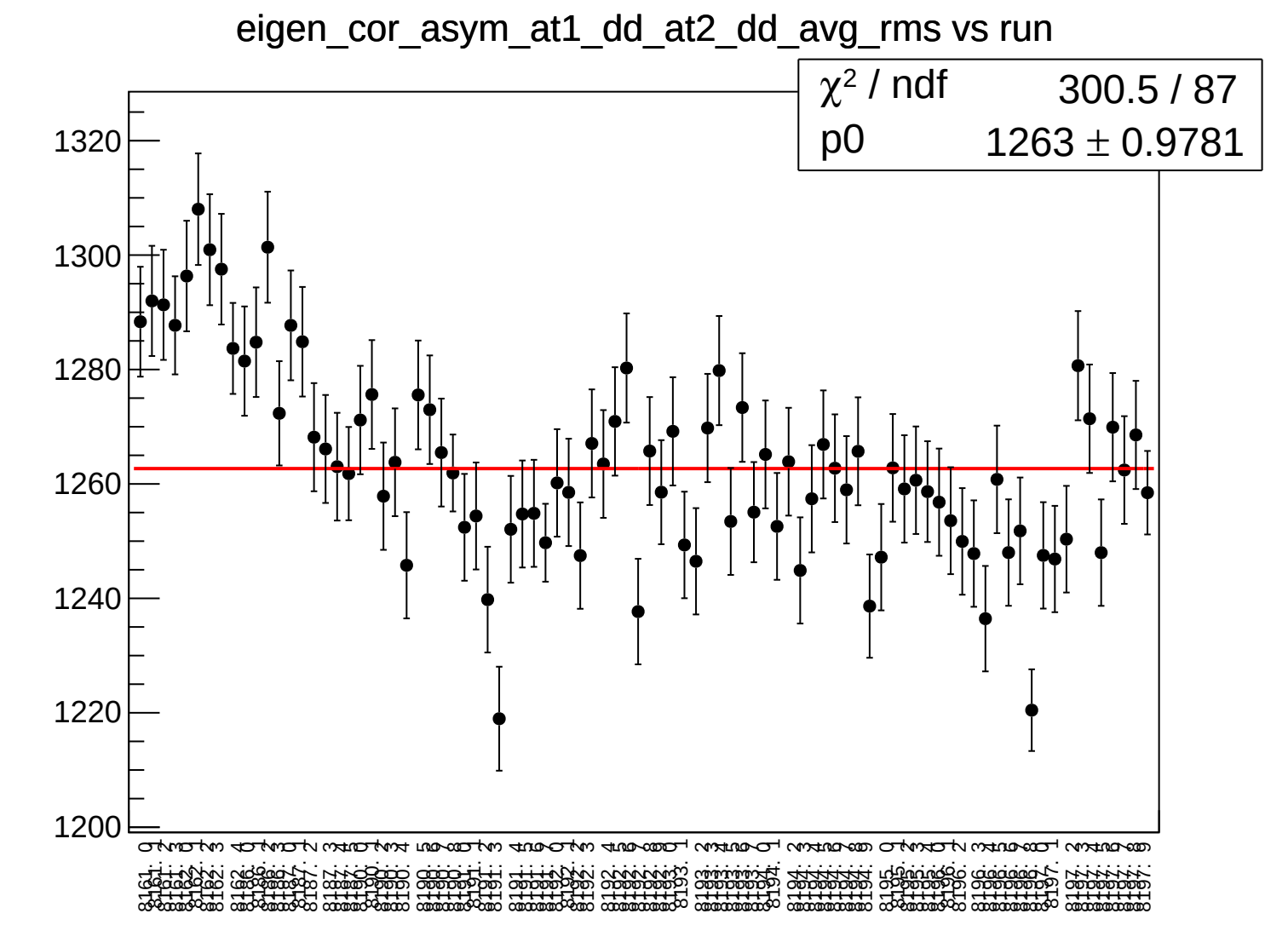

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 300.5 / 87
p0 1263 ± 0.9781
1320
1300
1280
1260
1240
1220
1200

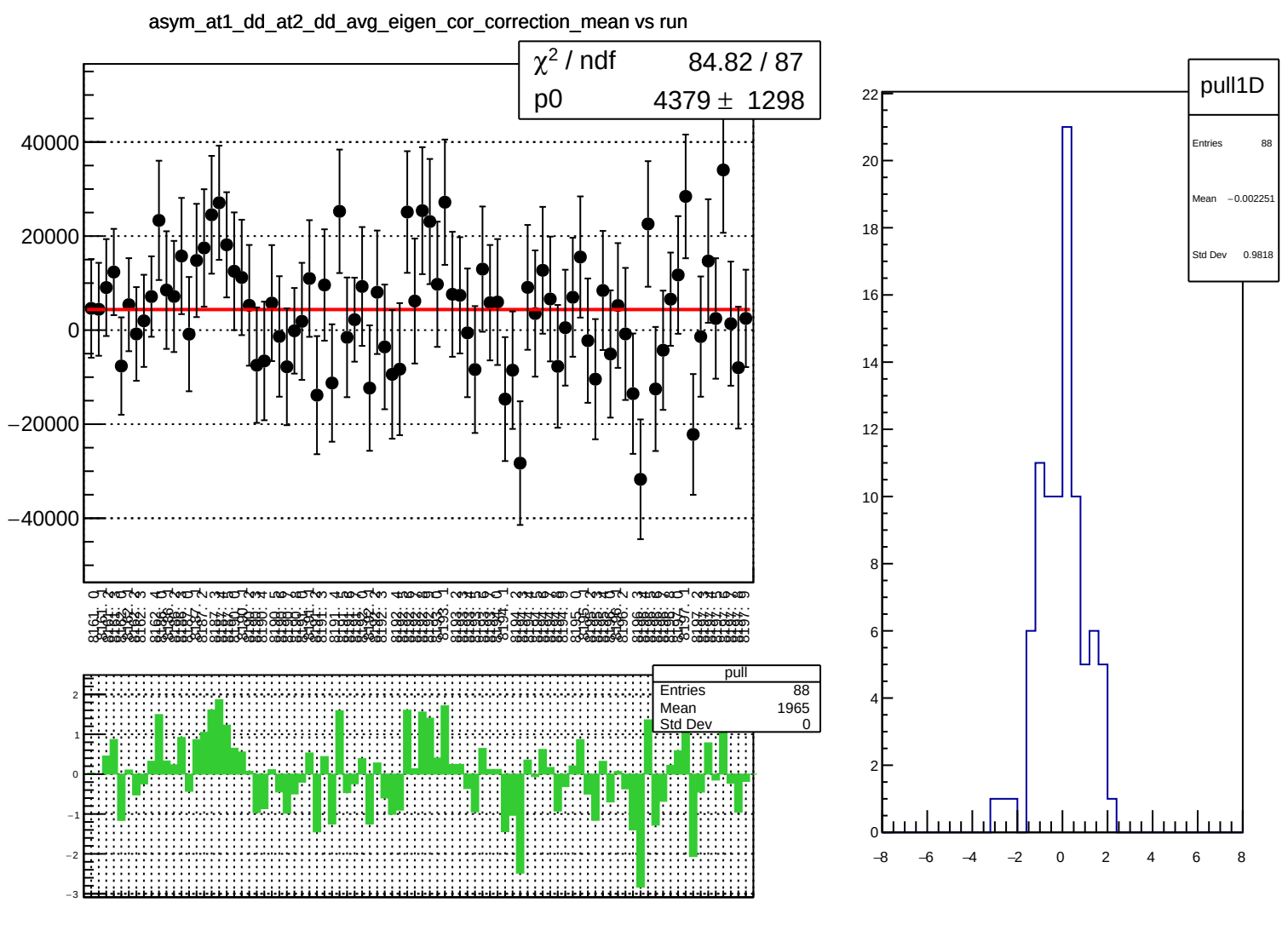

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 84.82 / 87
p0 4379 ± 1298
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1965
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.002251
Std Dev 0.9818
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 87
p0 1180 ± 0.9179
1300
1200
1100
1000
900


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.41 / 87
p0 53.31 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −268.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean 0.006185
Std Dev 0.9794
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 300.5 / 87
p0 1263 ± 0.9781
1320
1300
1280
1260
1240
1220
1200


asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.82 / 87
p0 4379 ± 1298
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1965
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.002251
Std Dev 0.9818
22
20
18
16
14
12
10
8
6
4
2
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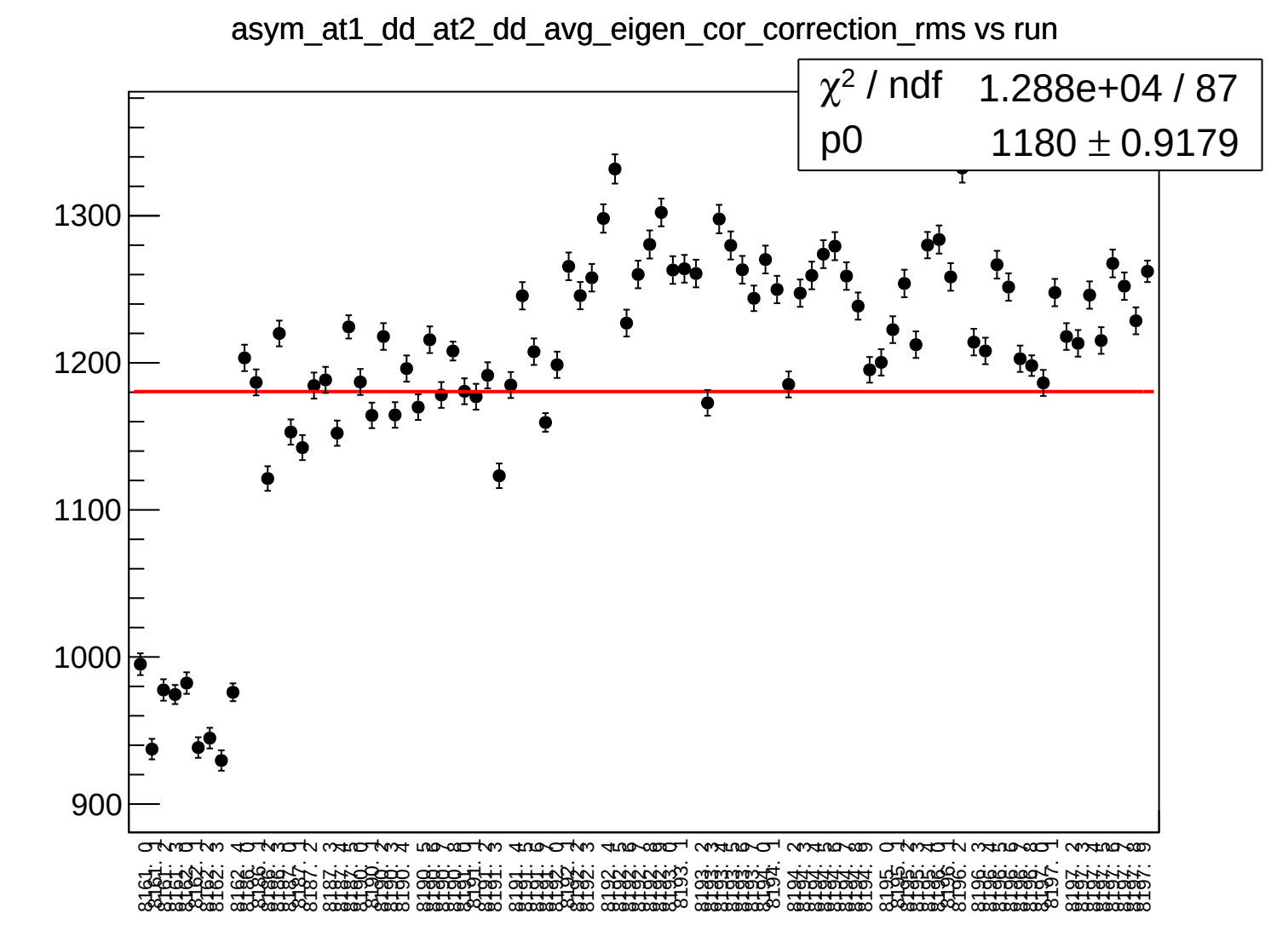
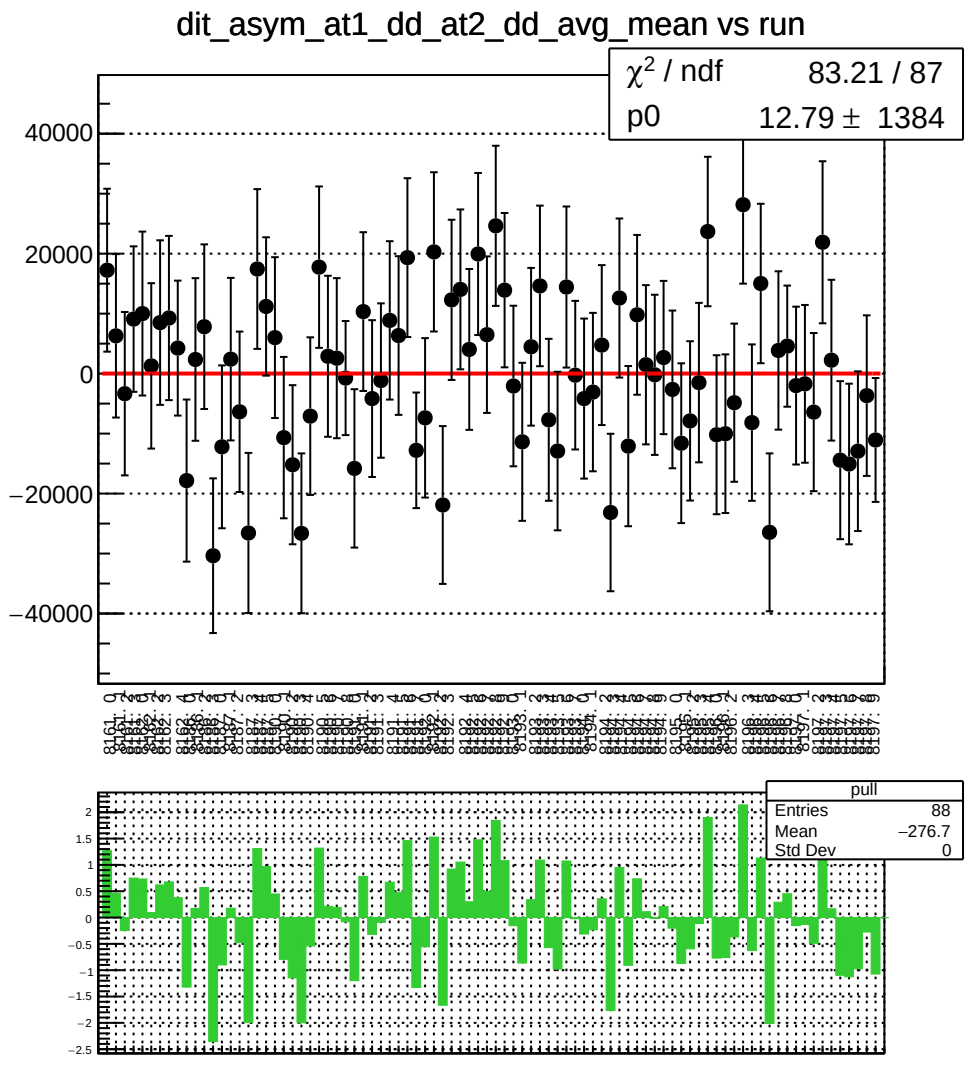
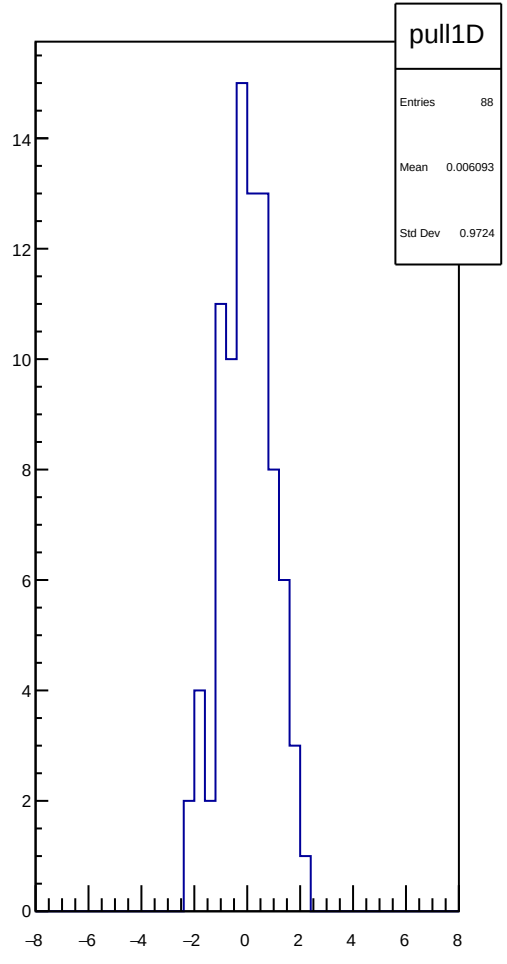
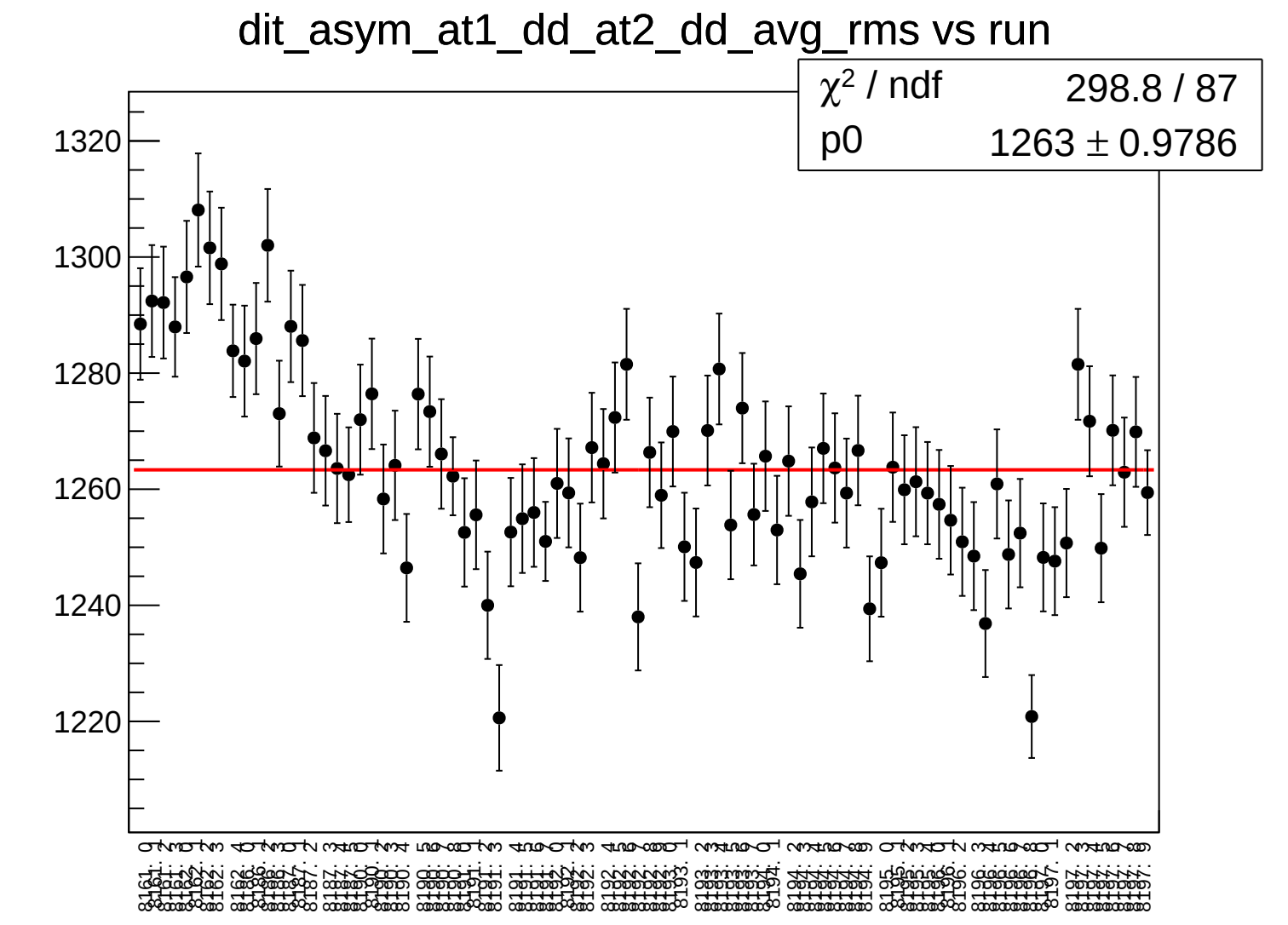
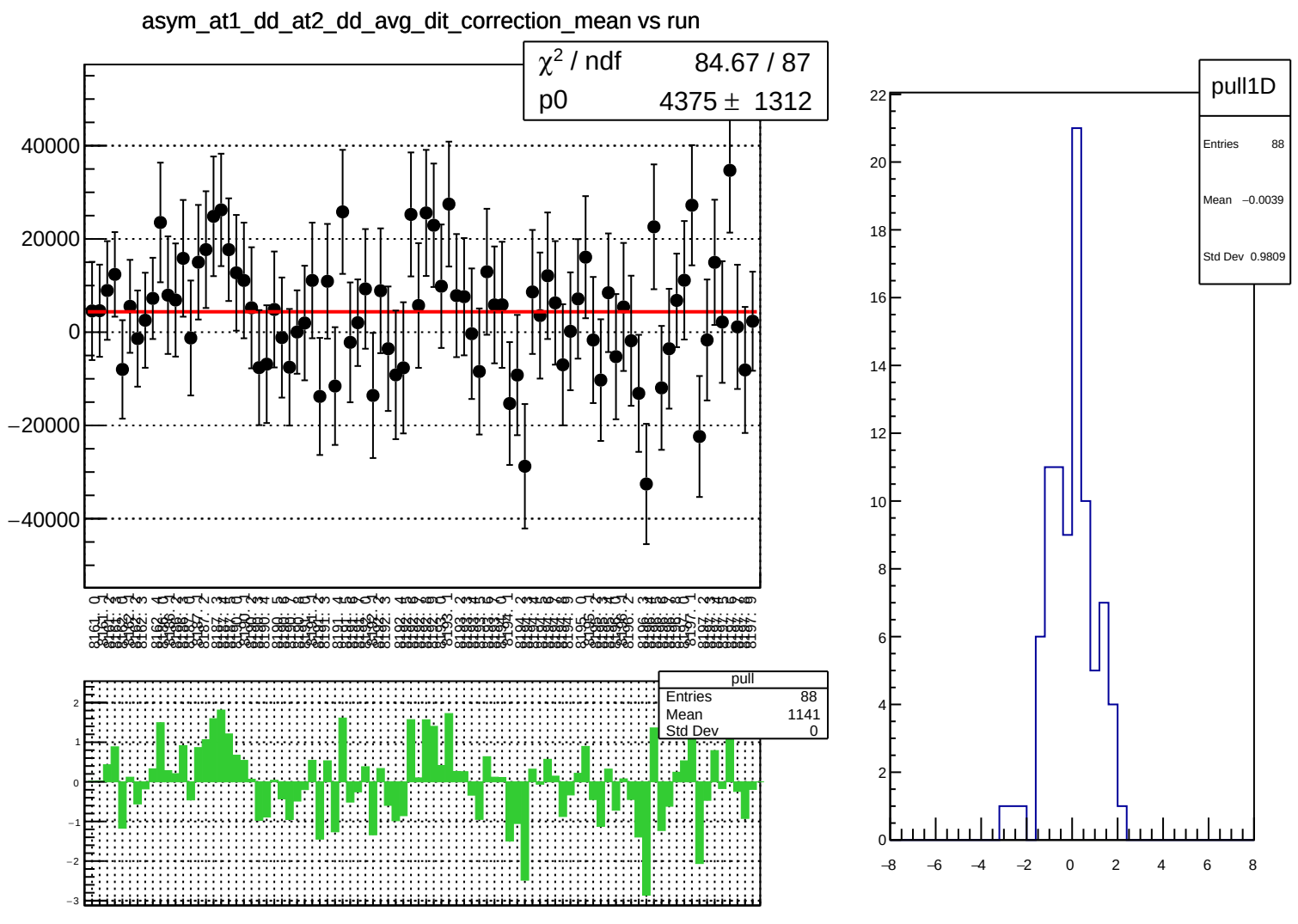
−6
−4
−2
0
2
4
6
8

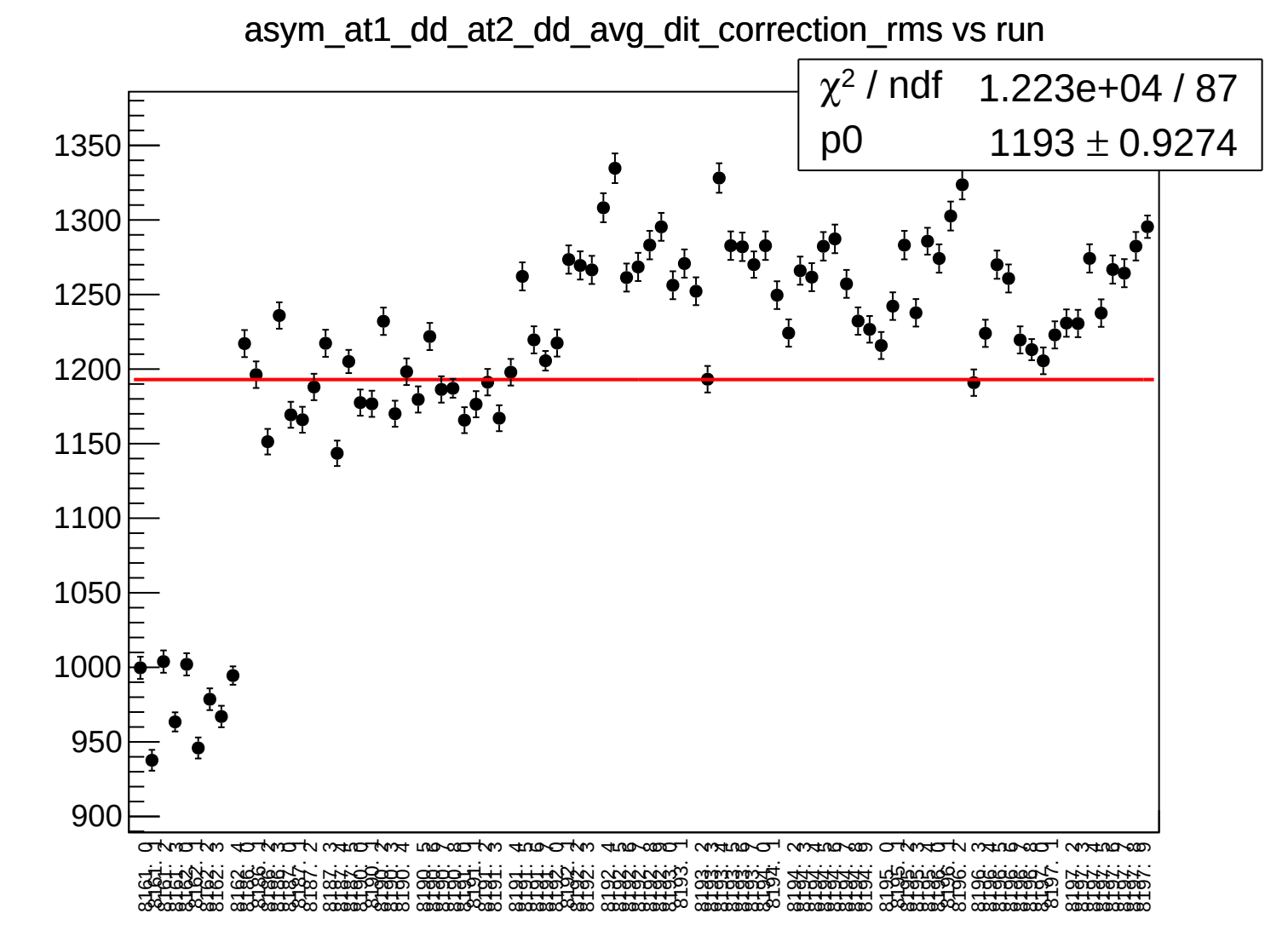

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 87
p0 1180 ± 0.9179
1300
1200
1100
1000
900

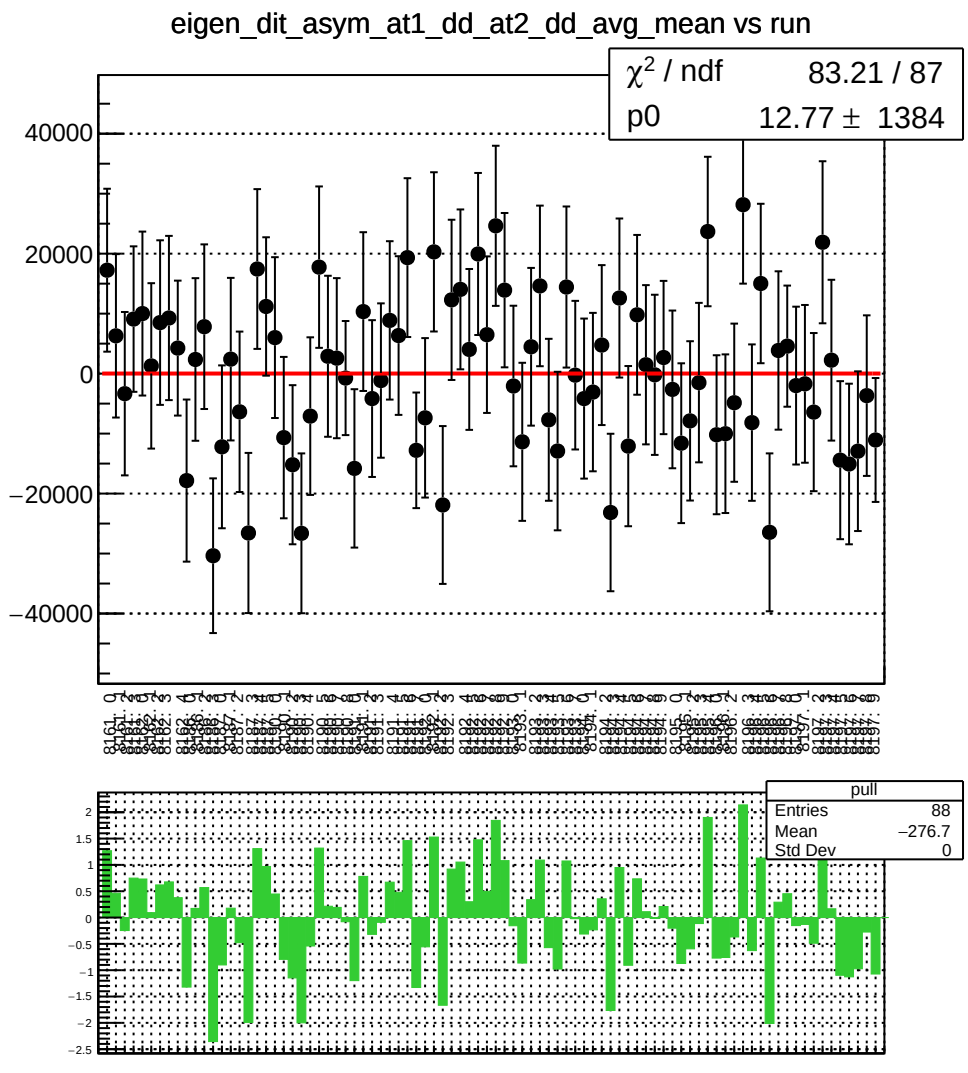

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 83.21 / 87
p0 12.79 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −276.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

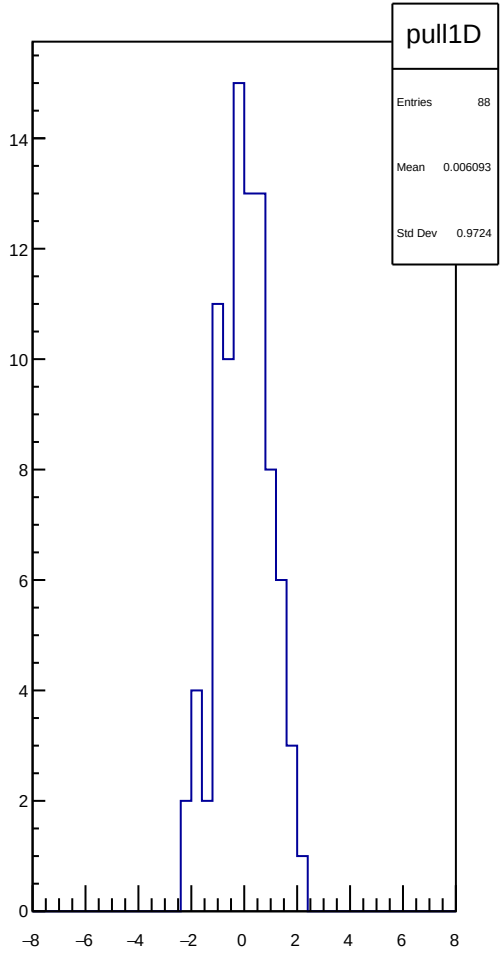

pull1D
Entries 88
Mean 0.006093
Std Dev 0.9724
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 298.8 / 87
p0 1263 ± 0.9786
1320
1300
1280
1260
1240
1220


asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 84.67 / 87
p0 4375 ± 1312
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1141
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0039
Std Dev 0.9809
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_dit_correction_rms vs run
χ² / ndf 1.223e+04 / 87
p0 1193 ± 0.9274
1350
1300
1250
1200
1150
1100
1050
1000
950
900


eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 83.21 / 87
p0 12.77 ± 1384
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −276.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean 0.006093
Std Dev 0.9724
14
12
10
8
6
4
2
0
−8
−6
−4
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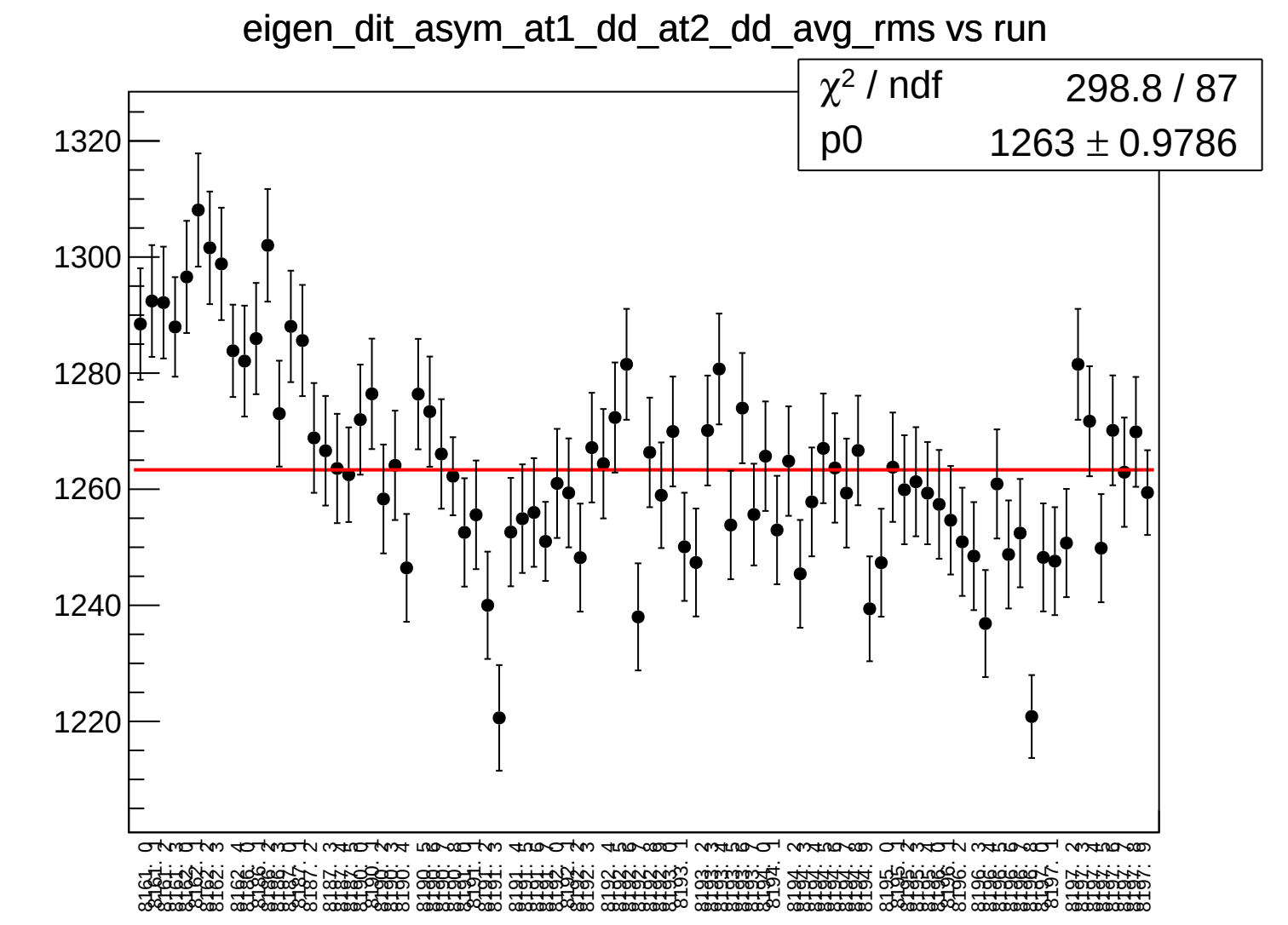
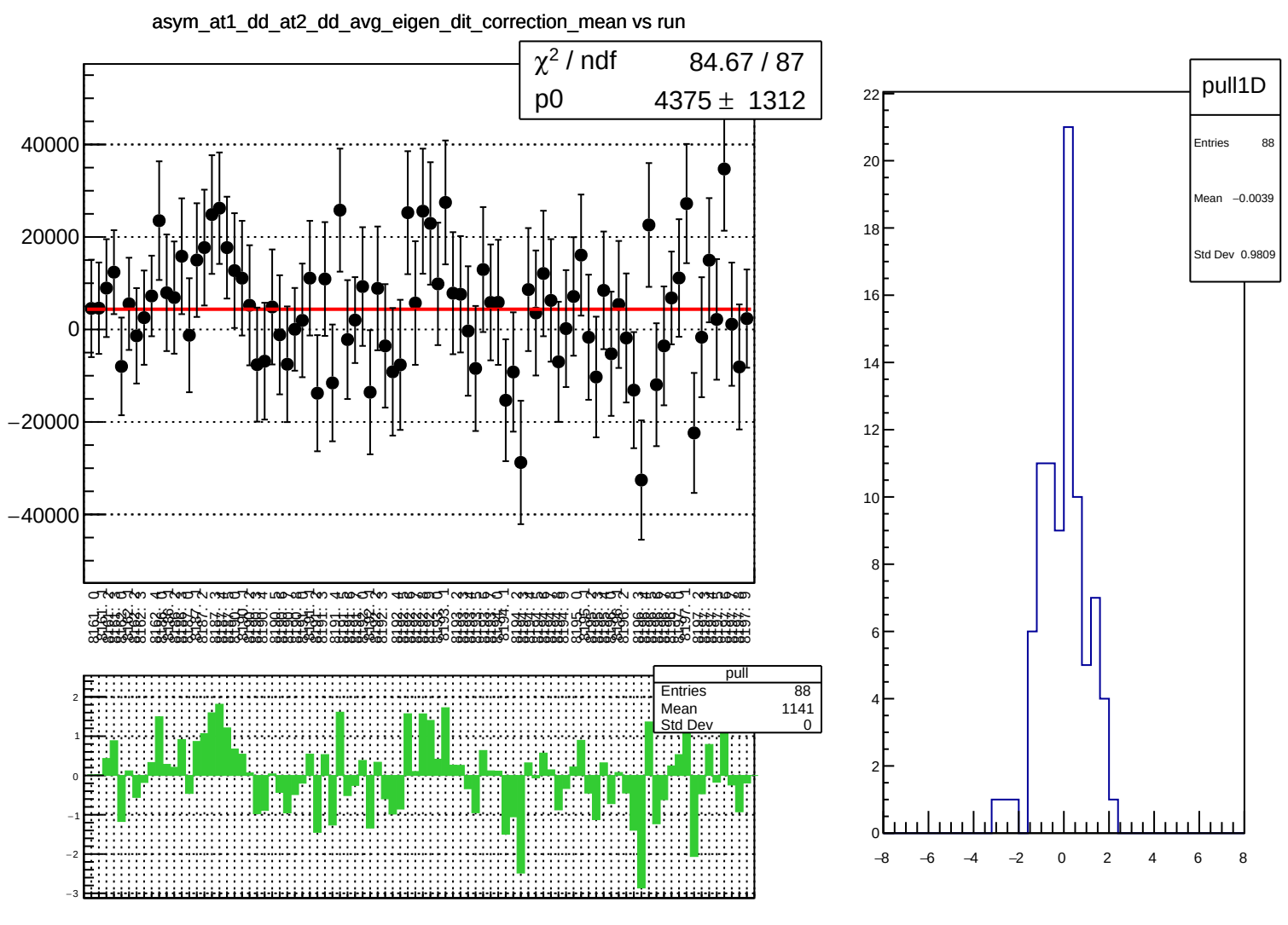
0
2
4
6
8


eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 298.8 / 87
p0 1263 ± 0.9786
1320
1300
1280
1260
1240
1220


asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.67 / 87
p0 4375 ± 1312
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1141
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0039
Std Dev 0.9809
22
20
18
16
14
12
10
8
6
4
2
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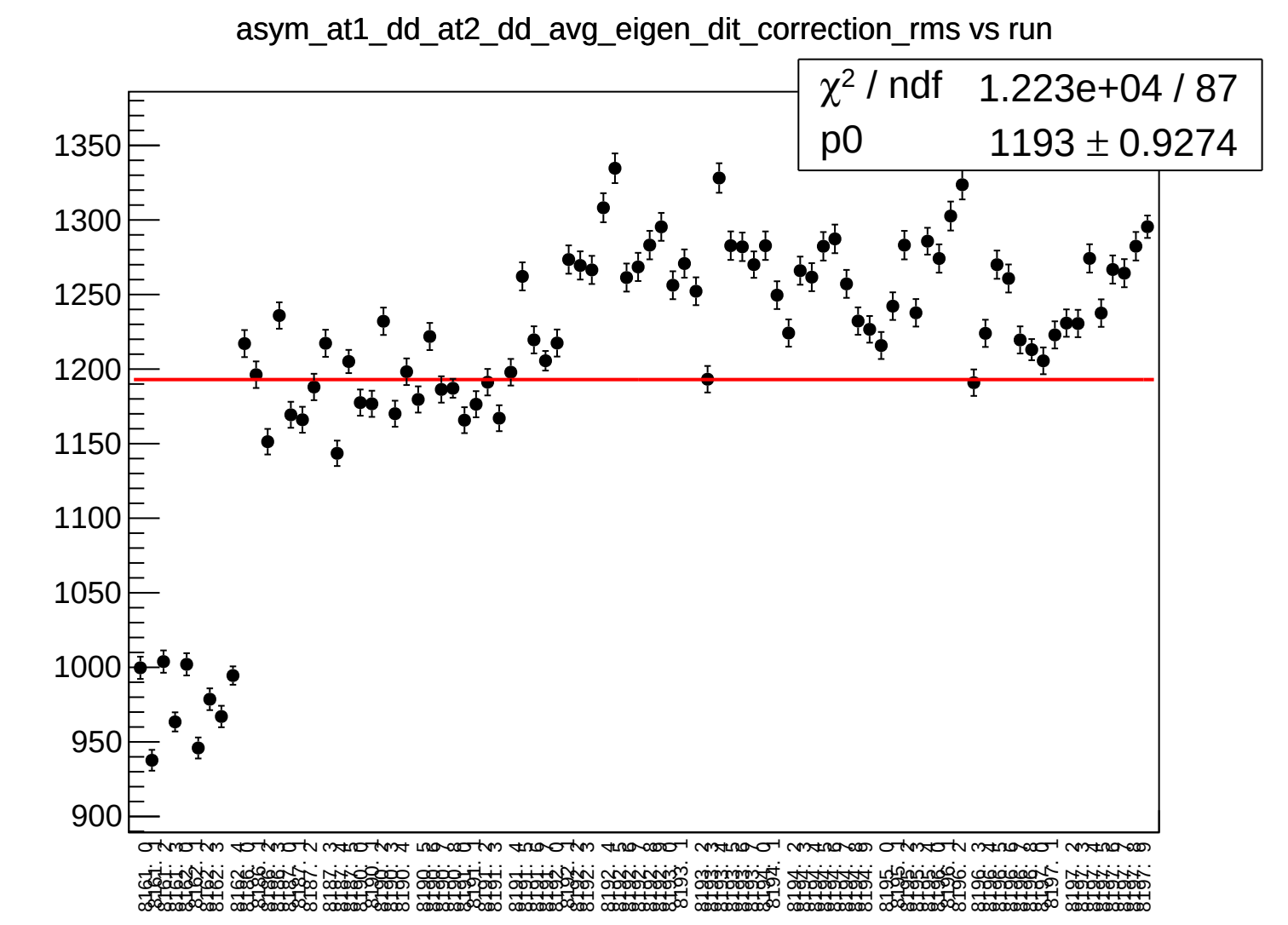
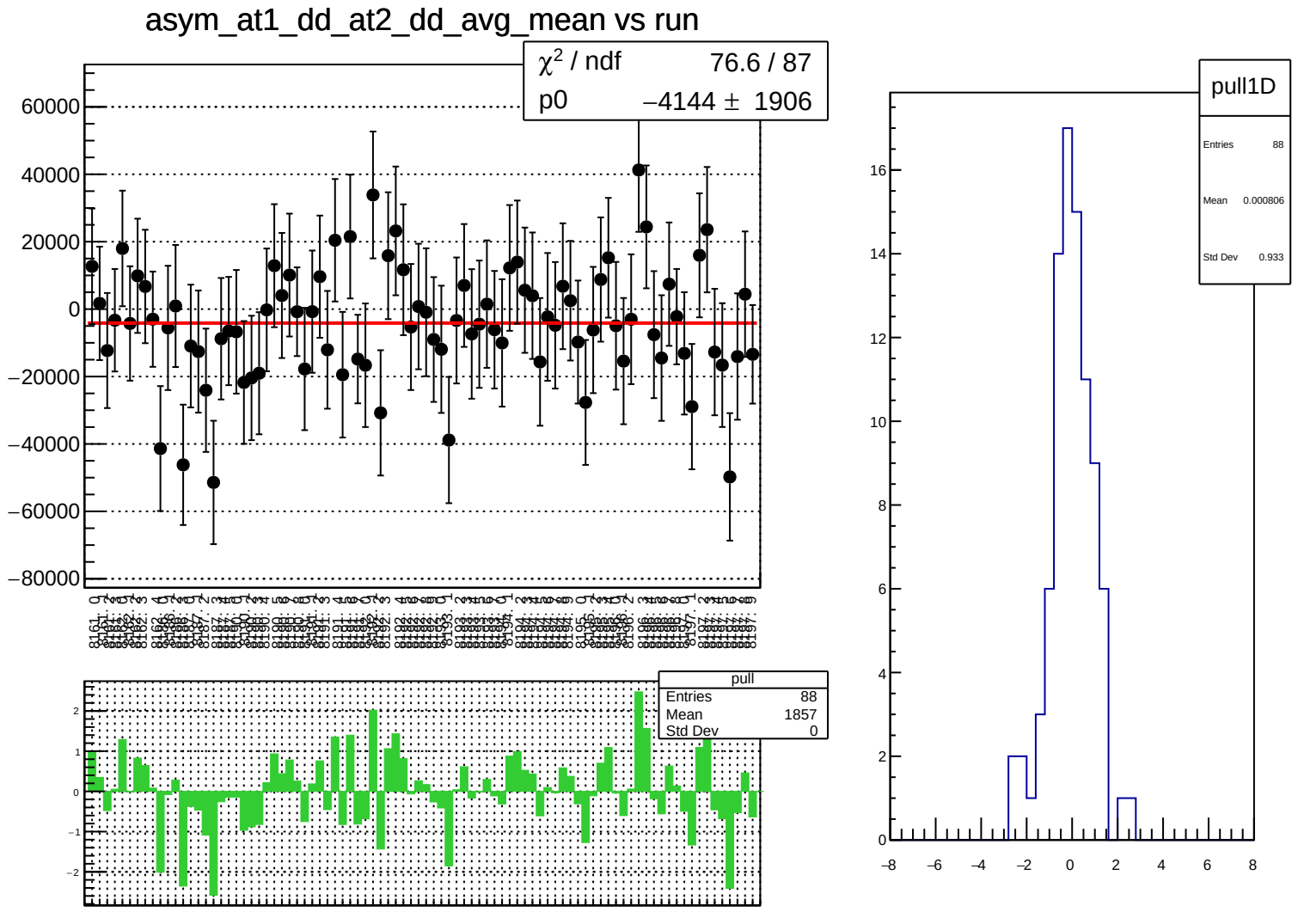
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.223e+04 / 87
p0 1193 ± 0.9274
1350
1300
1250
1200
1150
1100
1050
1000
950
900


asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 76.6 / 87
p0 −4144 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 1857
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.000806
Std Dev 0.933
16
14
12
10
8
6
4
2
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−4
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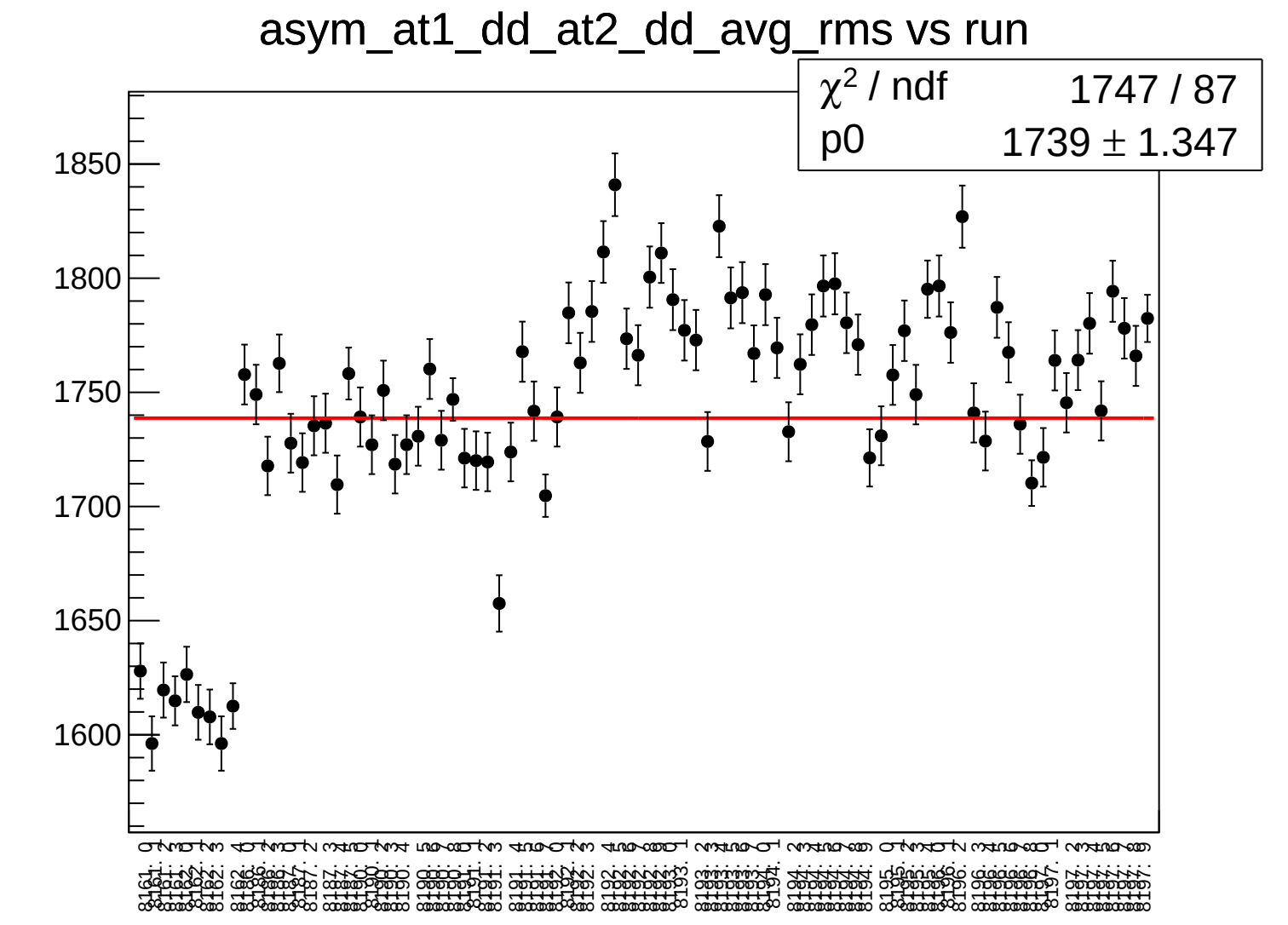
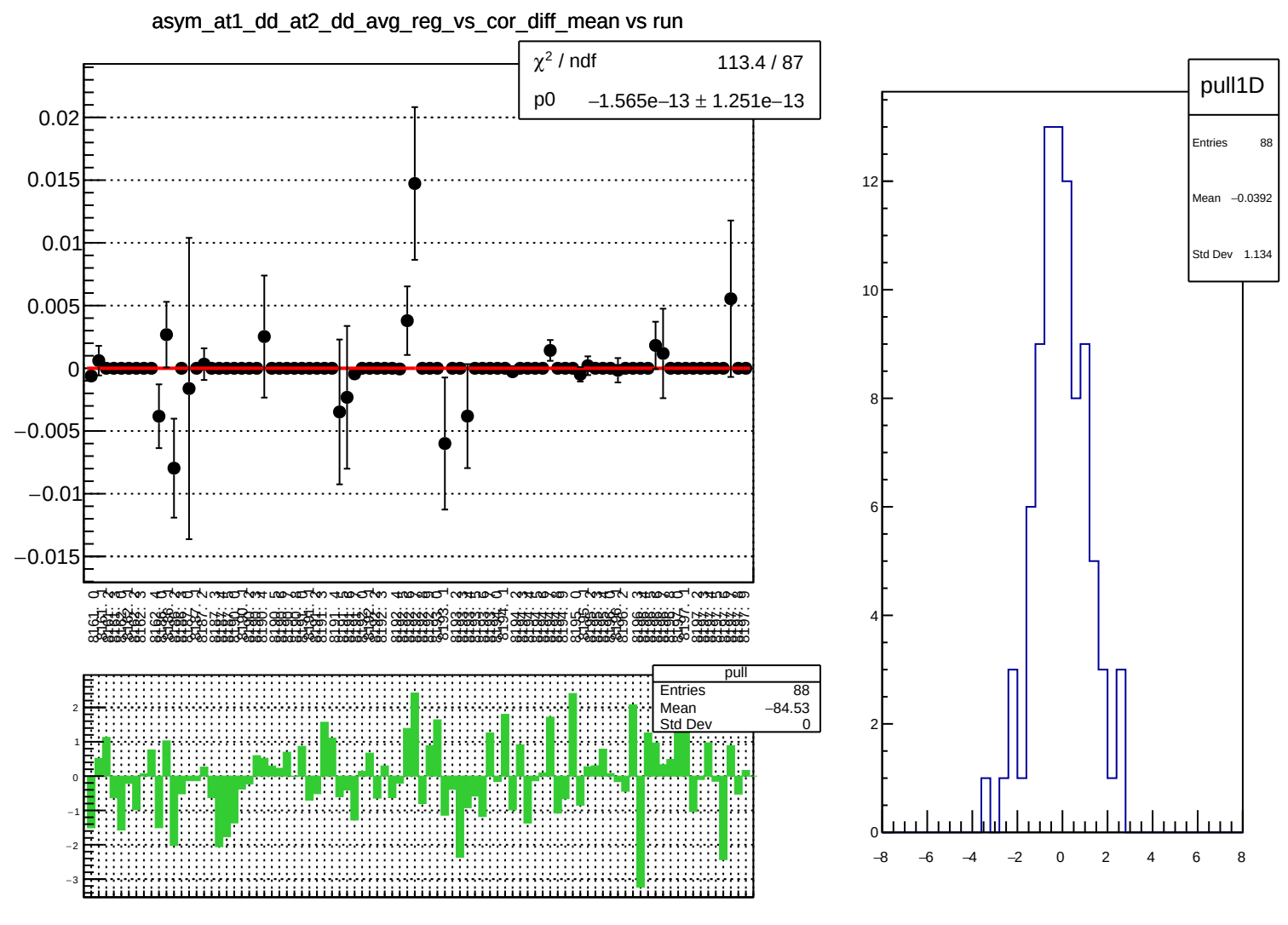
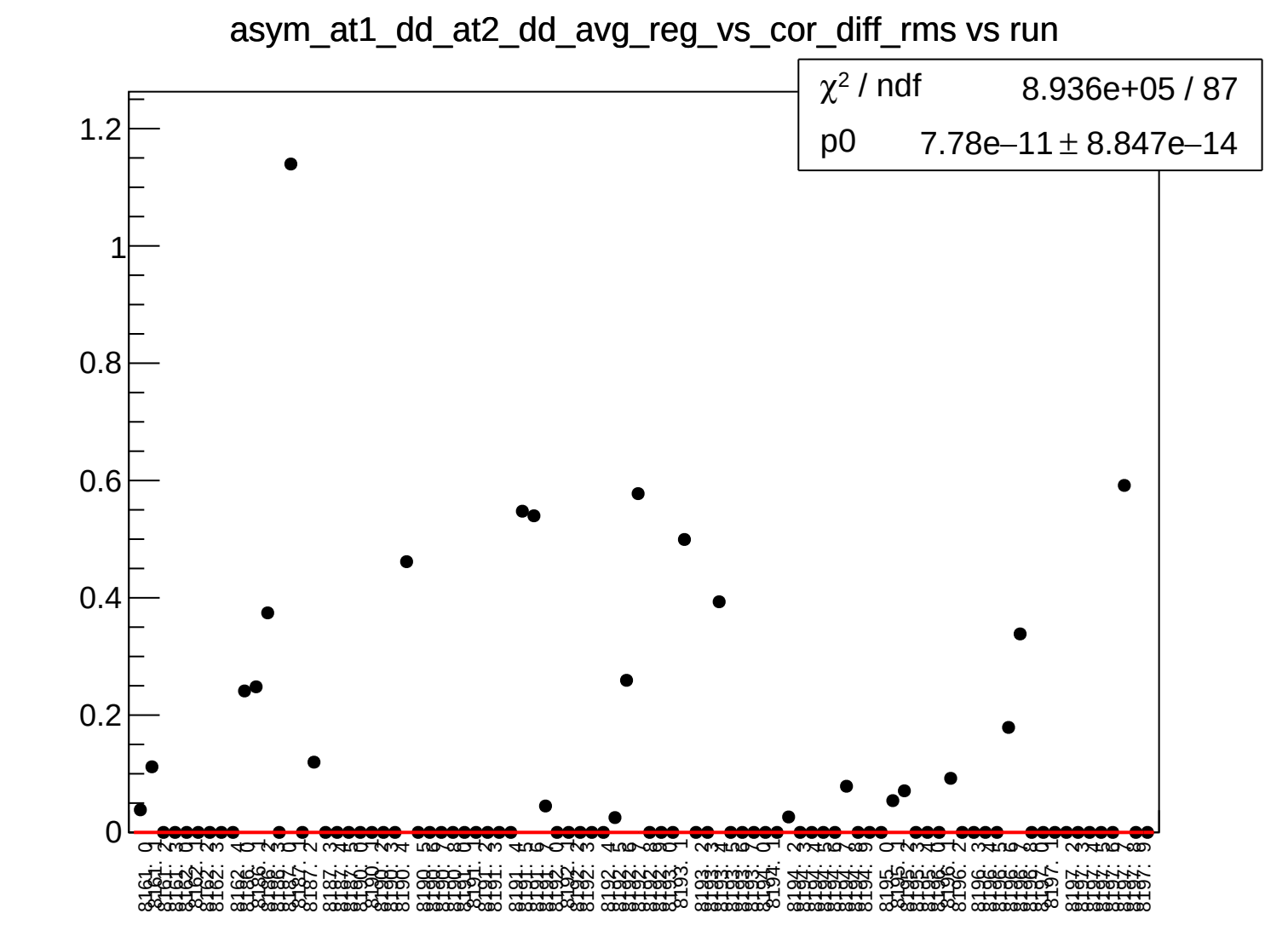
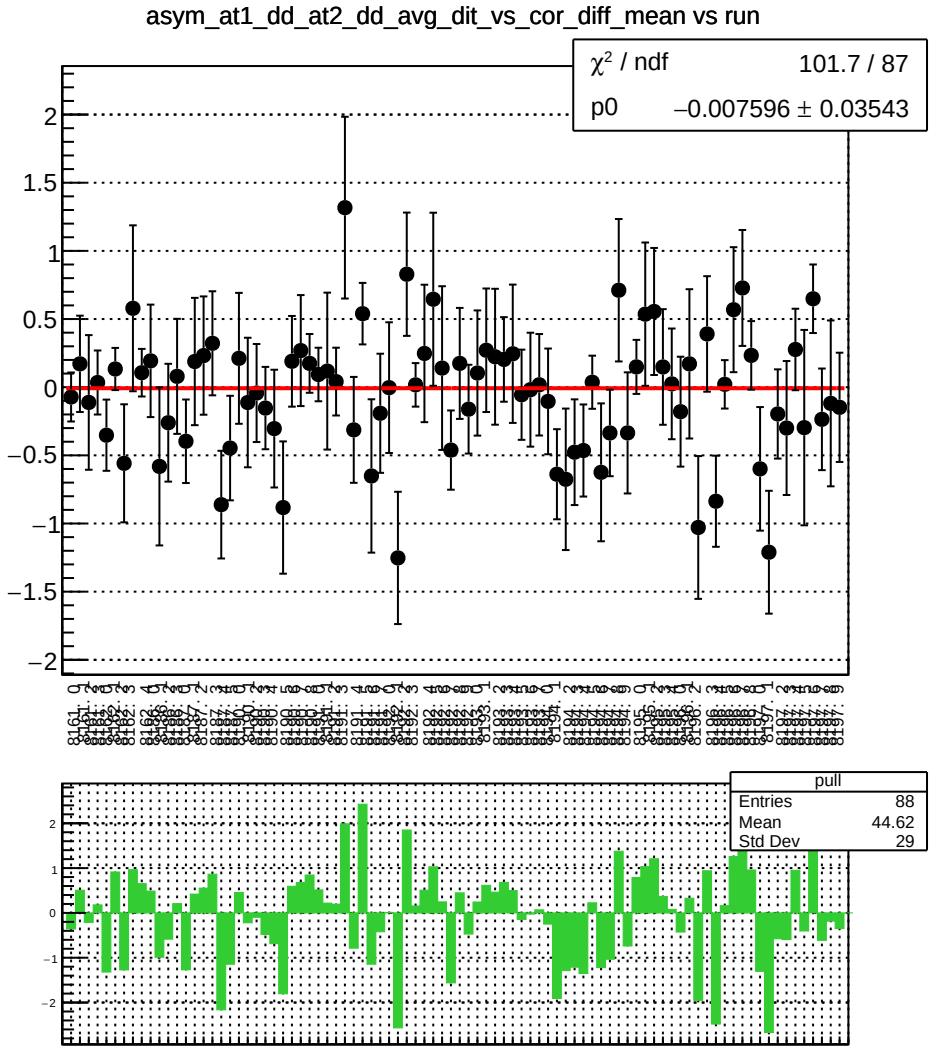
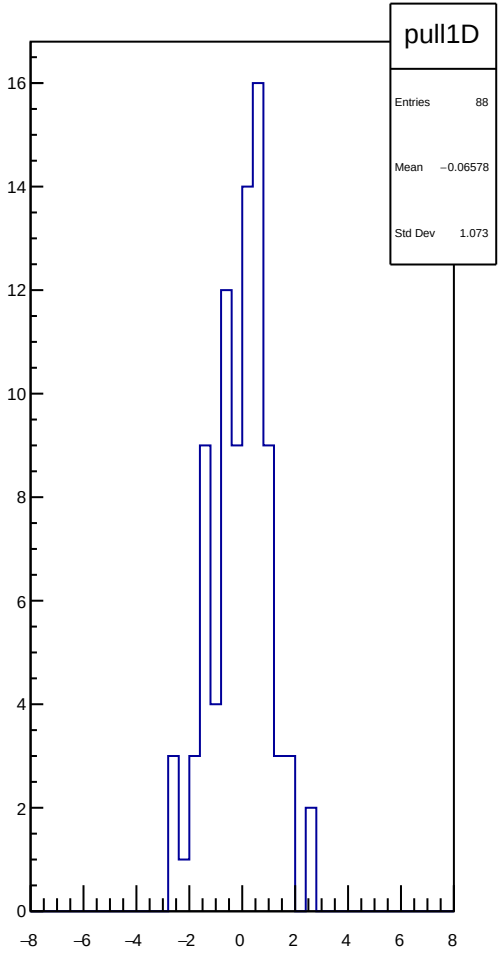
0
2
4
6
8

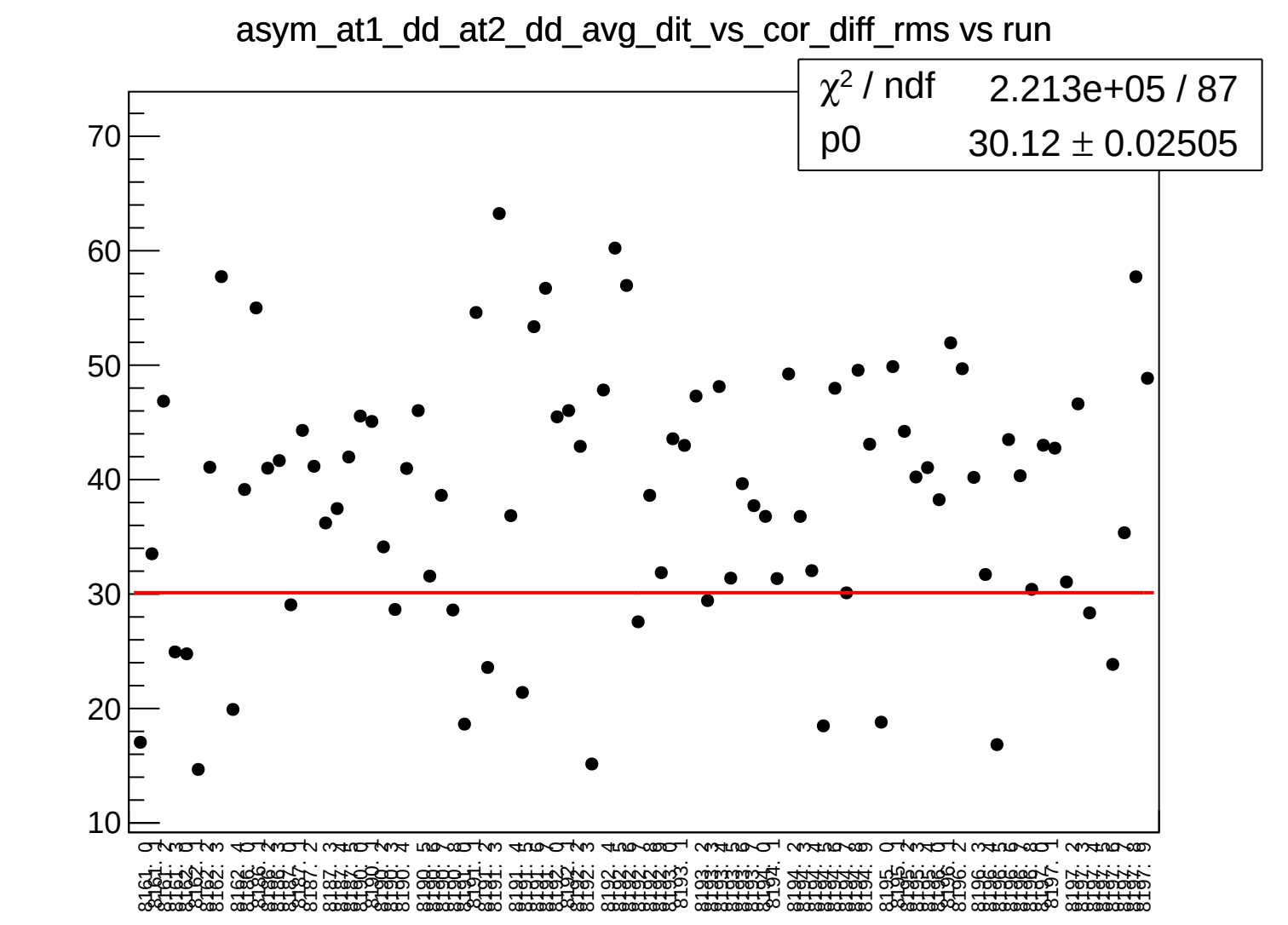

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1747 / 87
p0 1739 ± 1.347
1850
1800
1750
1700
1650
1600

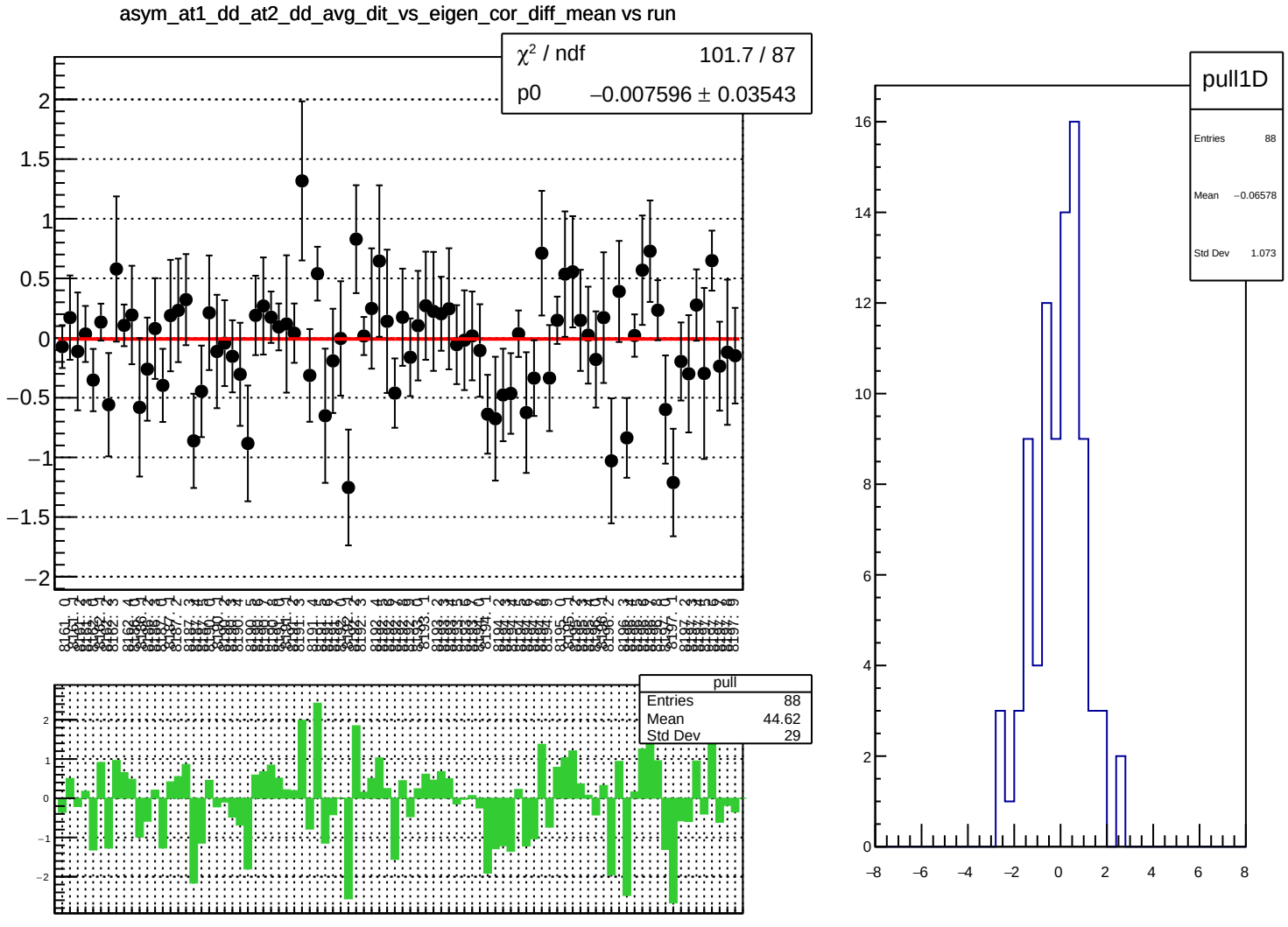

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 87
p0 −1.565e−13 ± 1.251e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean −84.53
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0392
Std Dev 1.134
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

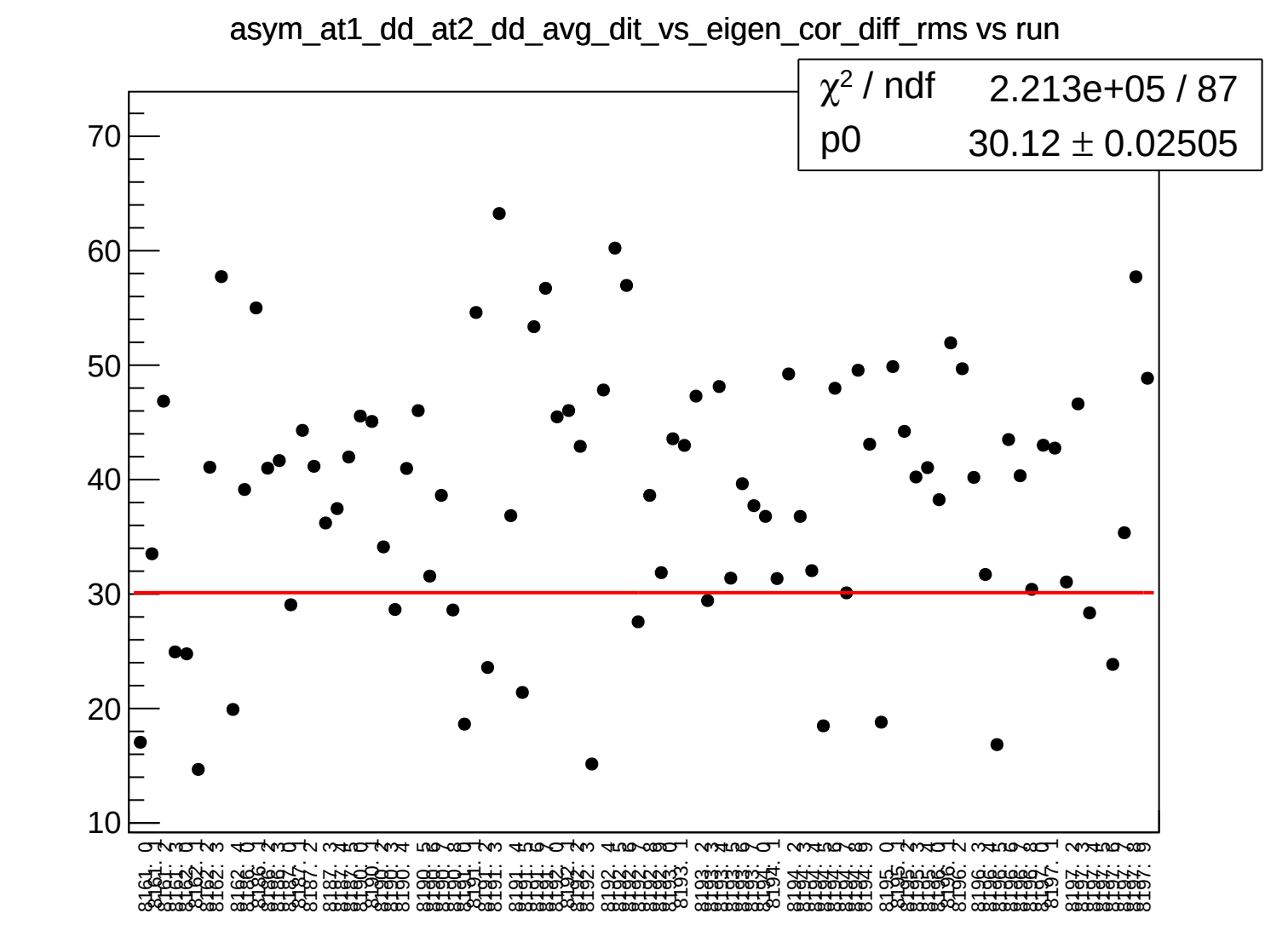

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.936e+05 / 87
p0 7.78e−11 ± 8.847e−14
1.2
1
0.8
0.6
0.4
0.2
0

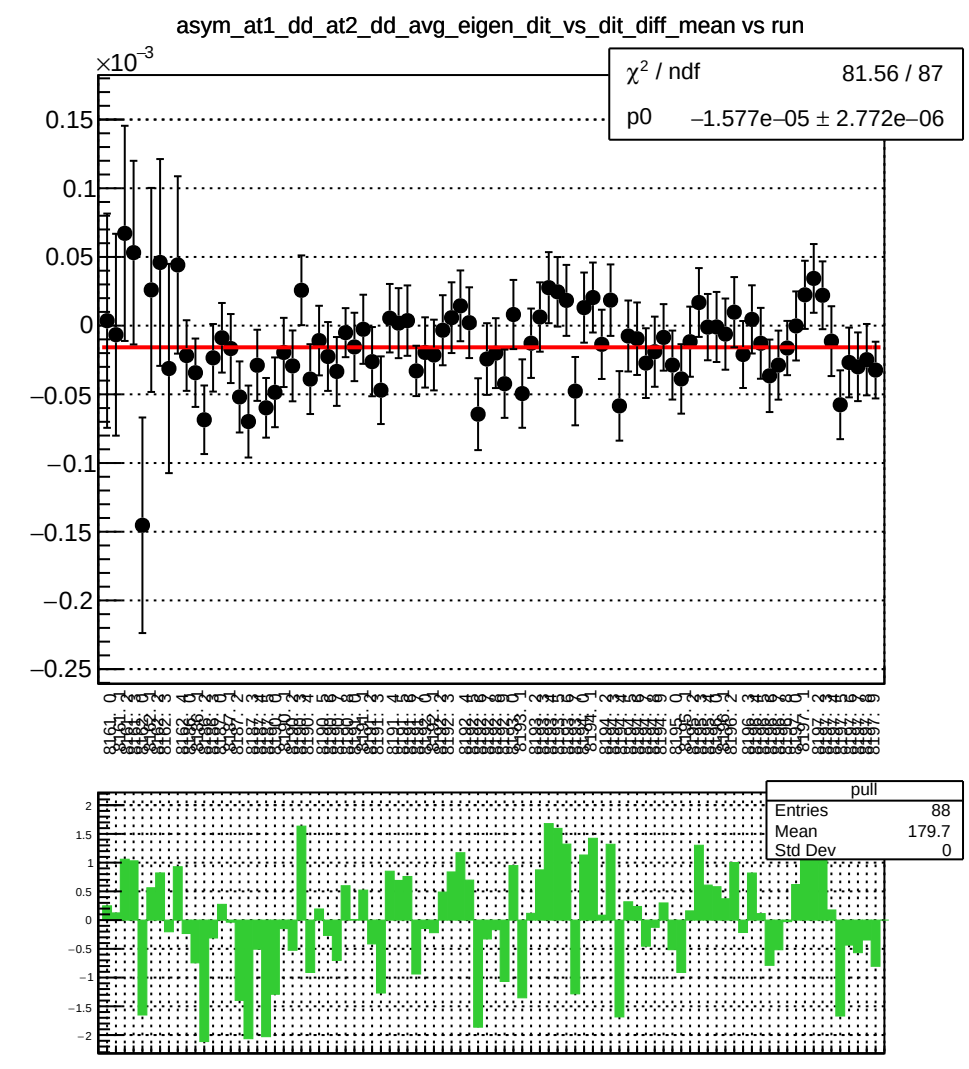

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 −0.007596 ± 0.03543
pull
Entries 88
Mean 44.62
Std Dev 29

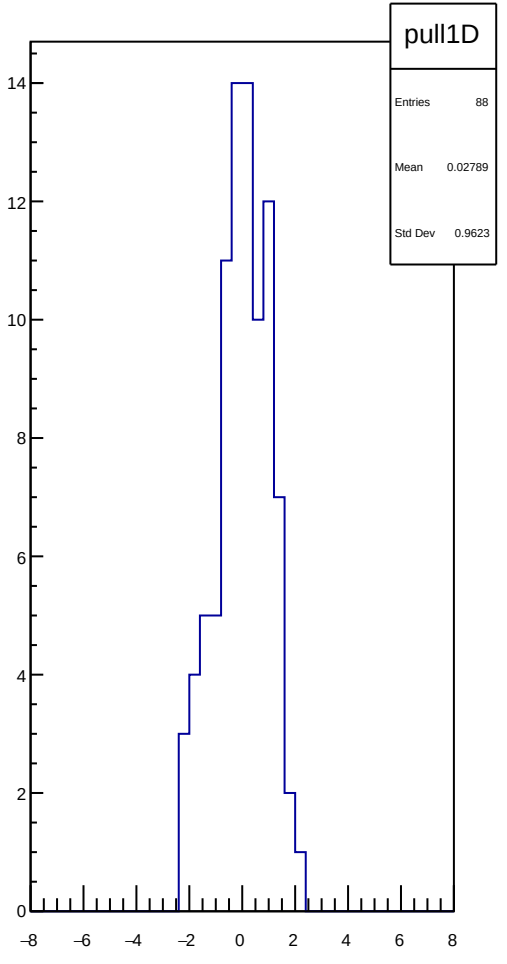

pull1D
Entries 88
Mean −0.06578
Std Dev 1.073

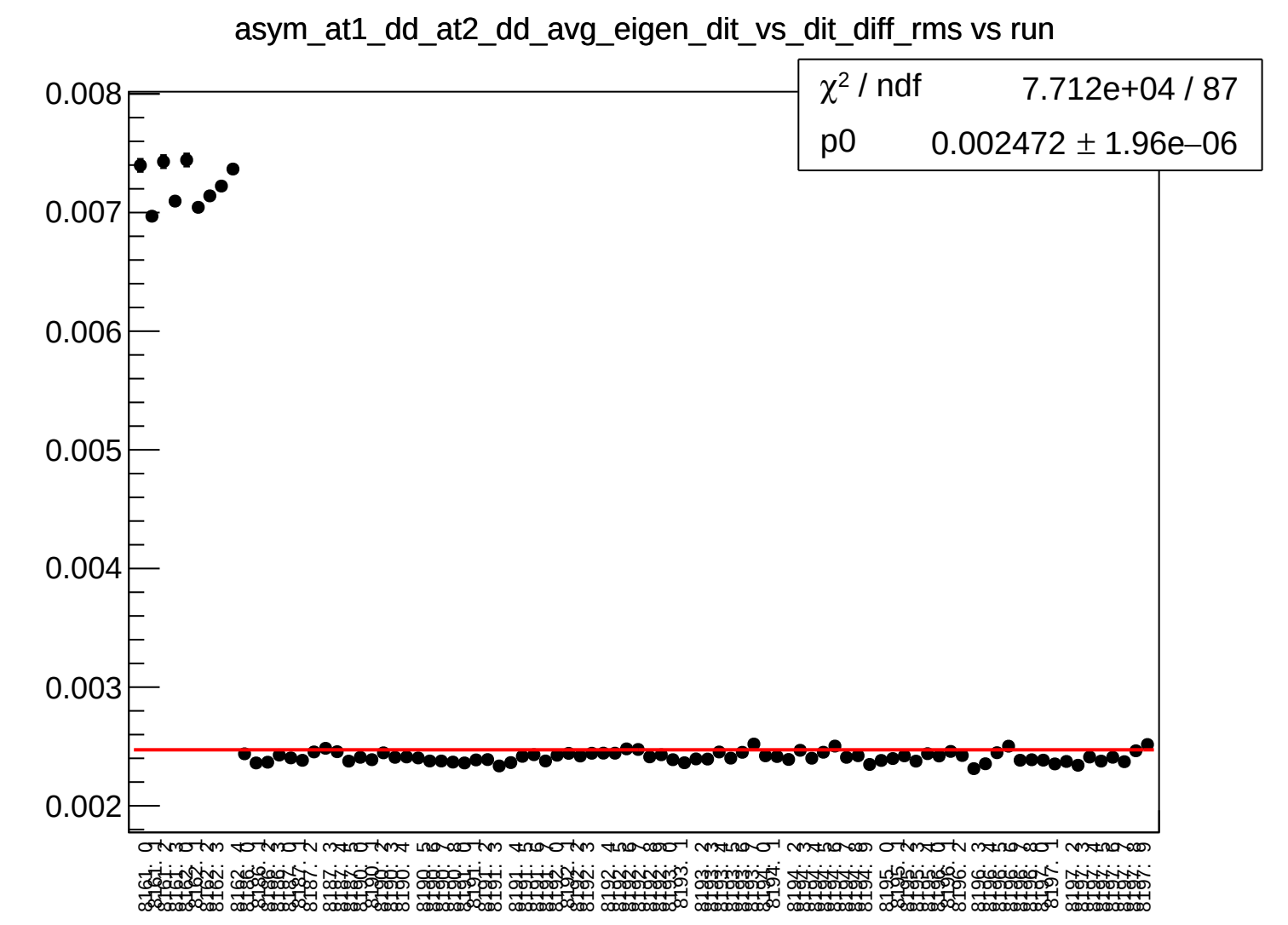

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 87
p0 30.12 ± 0.02505
70
60
50
40
30
20
10

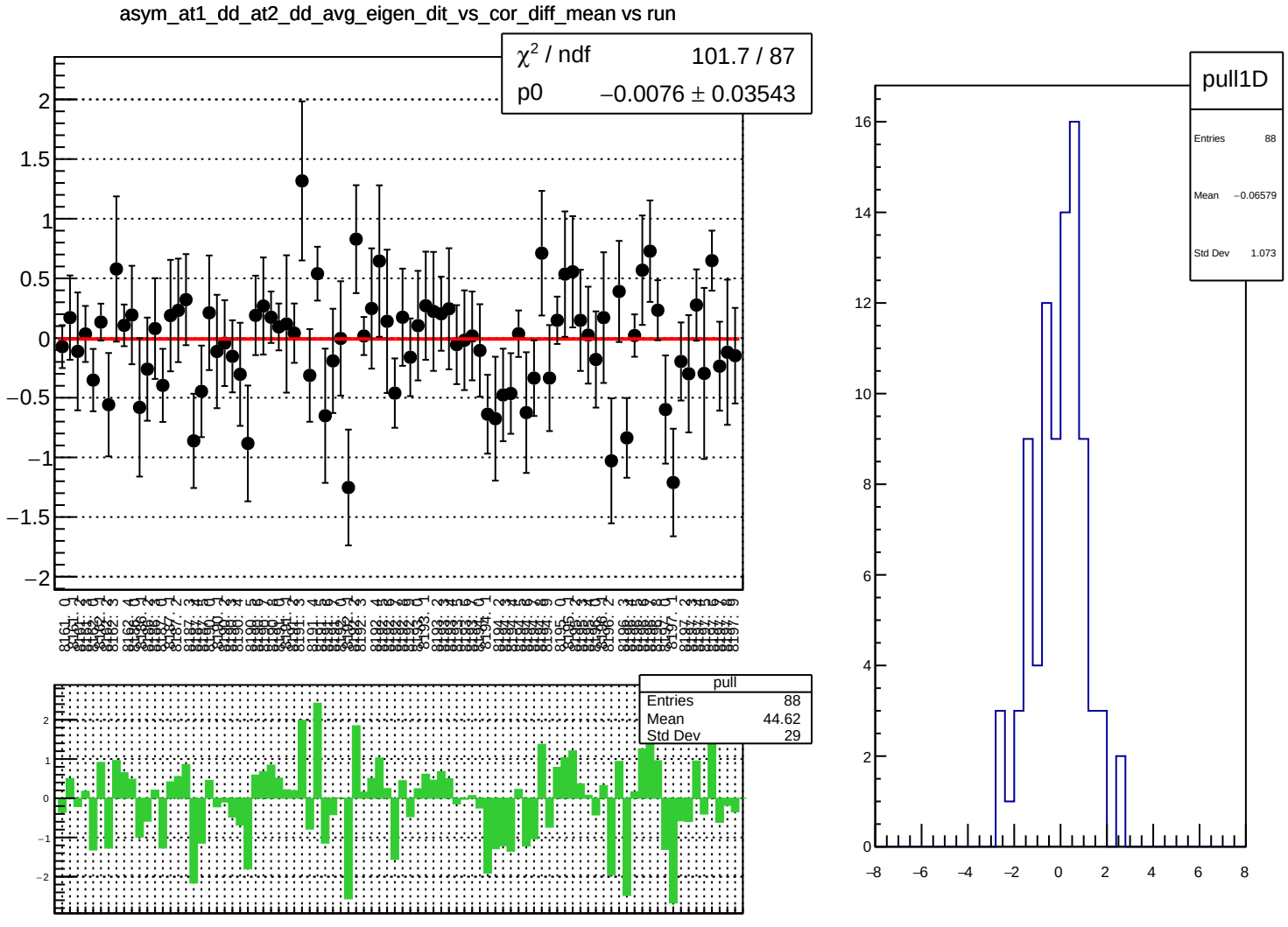

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 −0.007596 ± 0.03543
pull
Entries 88
Mean 44.62
Std Dev 29
pull1D
Entries 88
Mean −0.06578
Std Dev 1.073

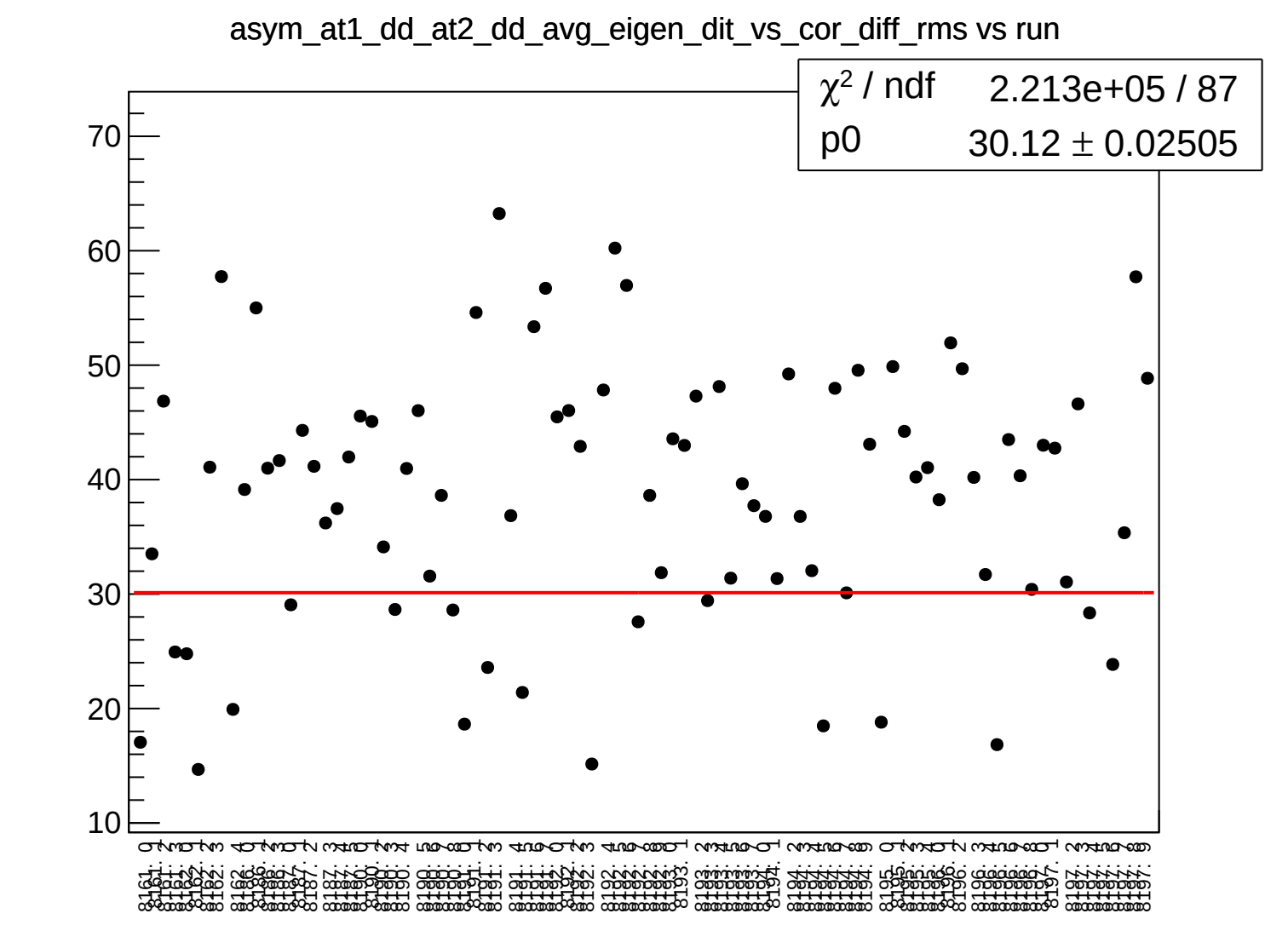

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 87
p0 30.12 ± 0.02505
70
60
50
40
30
20
10

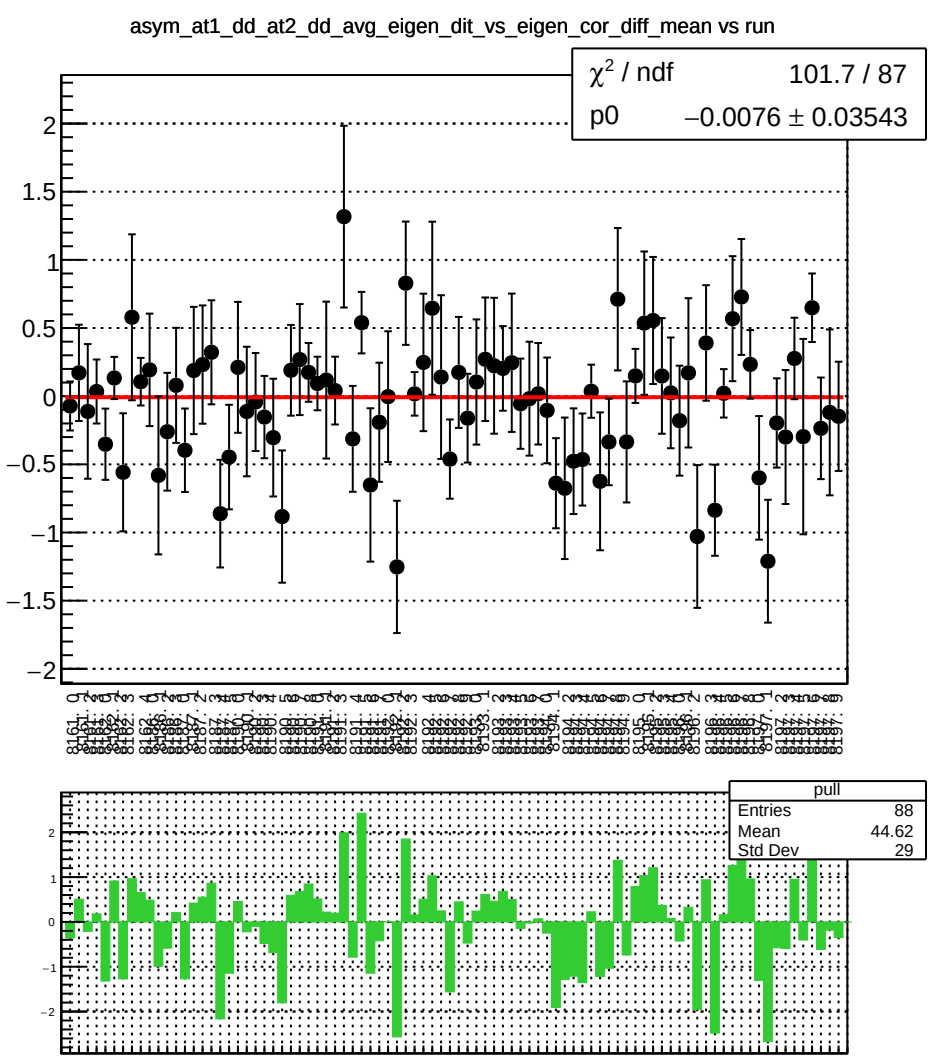

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^-3
χ² / ndf 81.56 / 87
p0 −1.577e−05 ± 2.772e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 88
Mean 179.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

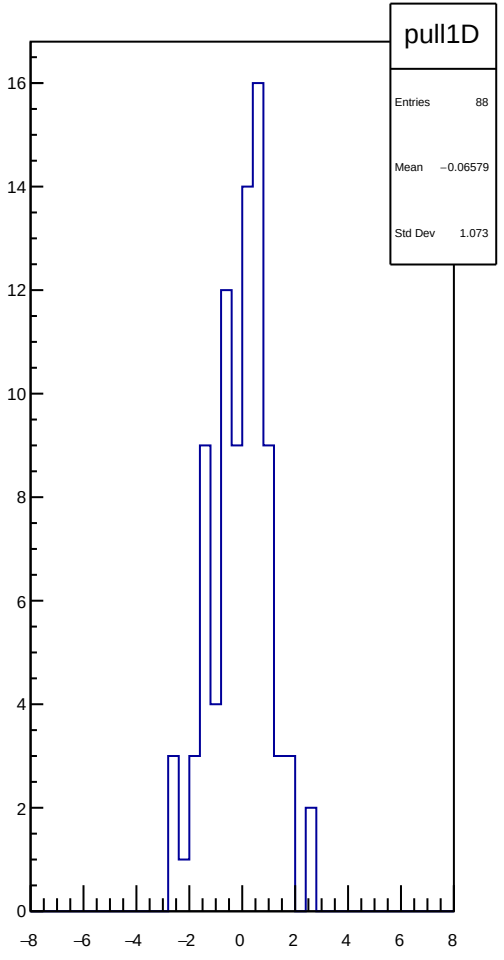

pull1D
Entries 88
Mean 0.02789
Std Dev 0.9623
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

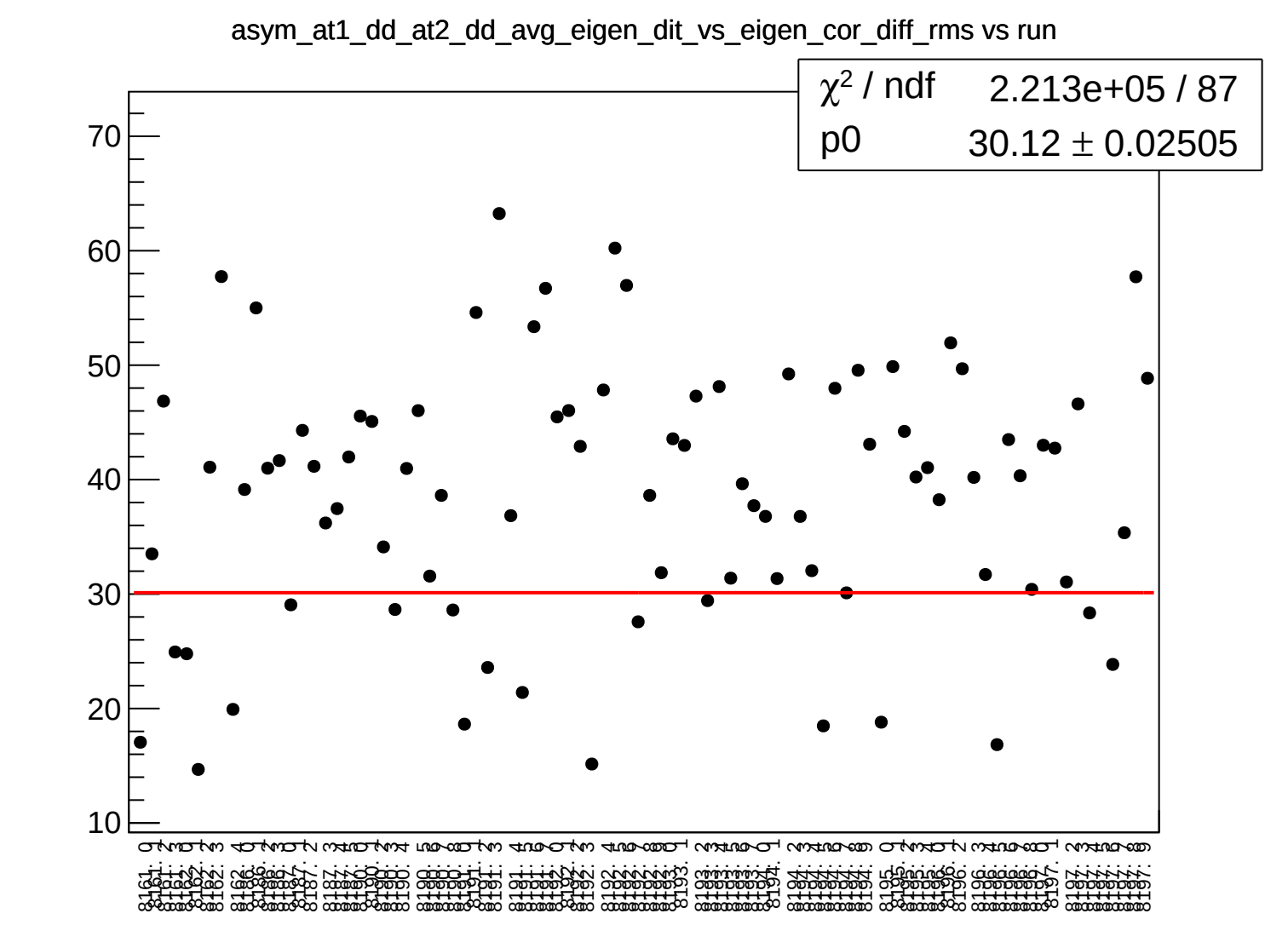

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.712e+04 / 87
p0 0.002472 ± 1.96e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

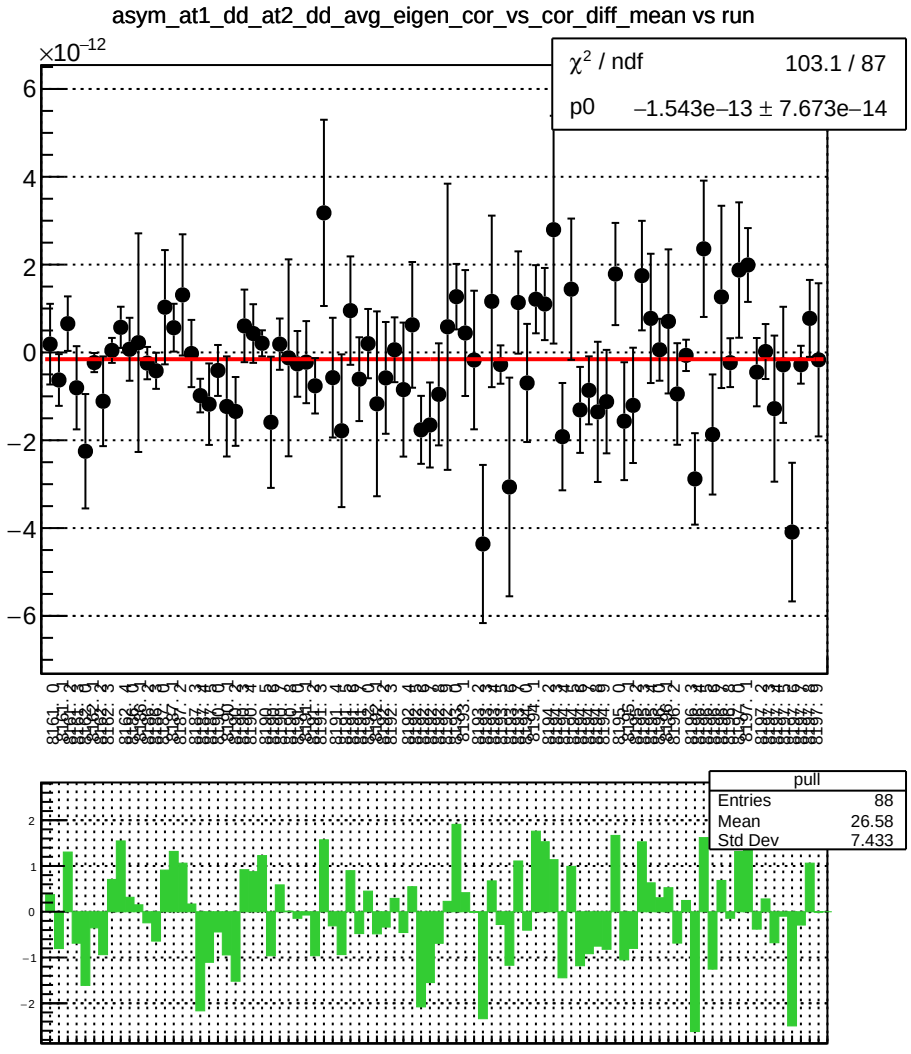

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 −0.0076 ± 0.03543
pull
Entries 88
Mean 44.62
Std Dev 29
pull1D
Entries 88
Mean −0.06579
Std Dev 1.073

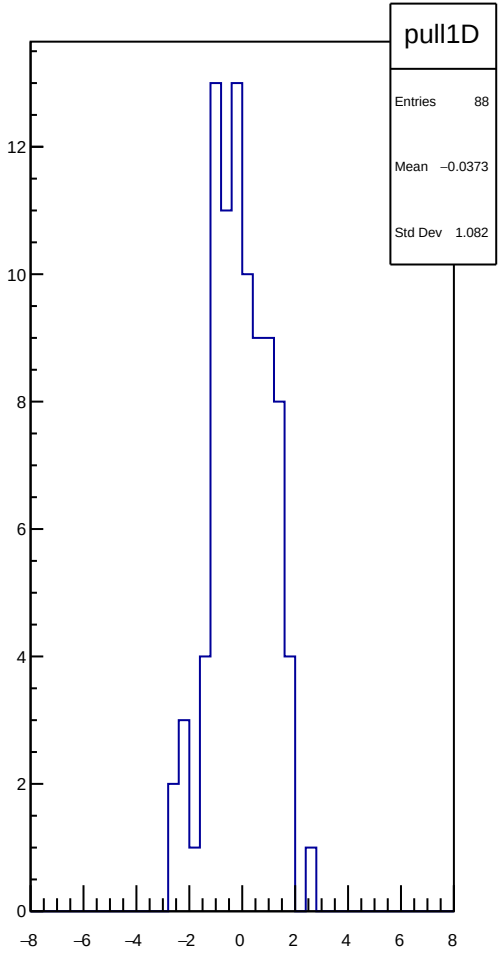

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 87
p0 30.12 ± 0.02505
70
60
50
40
30
20
10

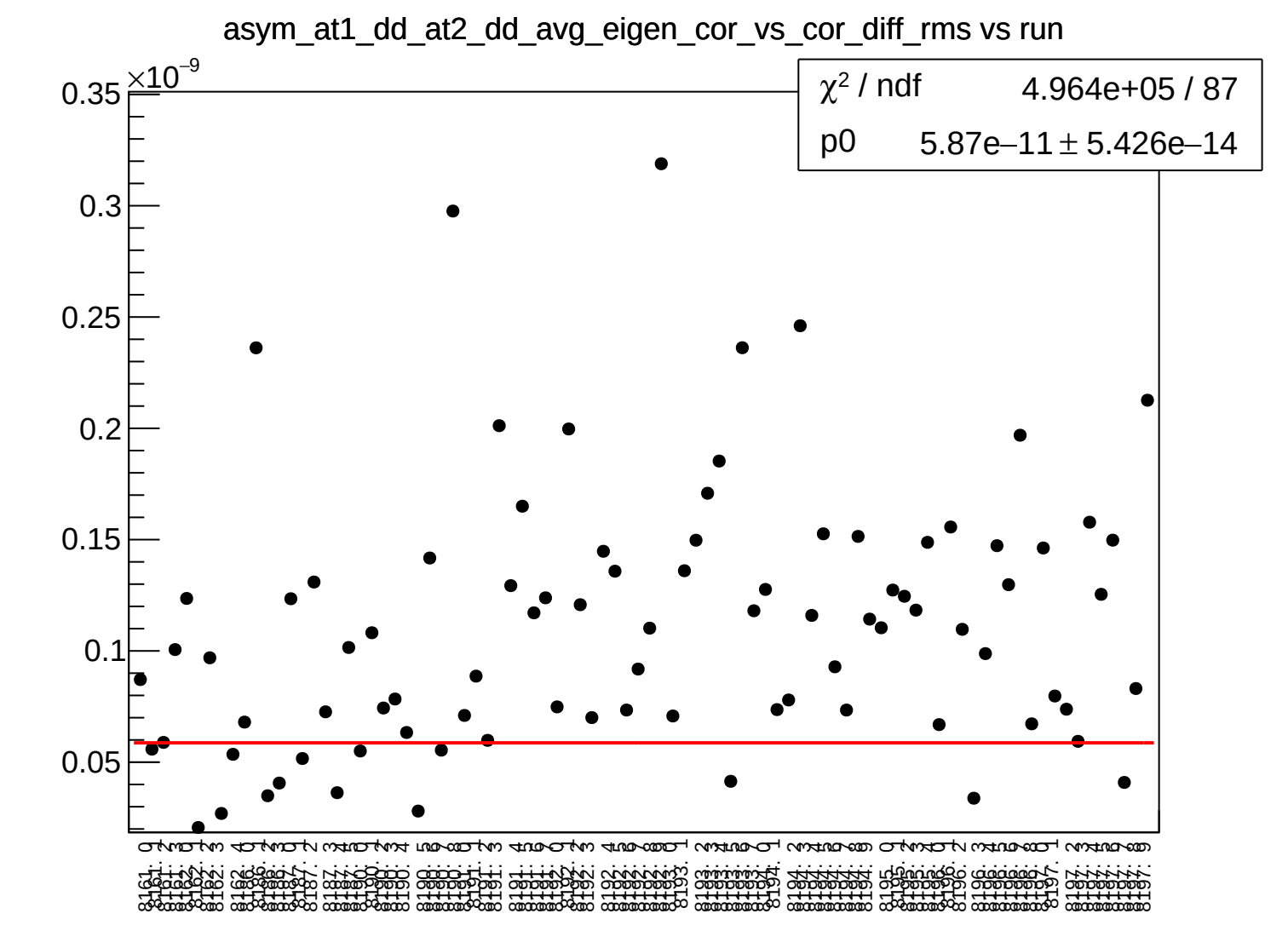

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 −0.0076 ± 0.03543
pull
Entries 88
Mean 44.62
Std Dev 29

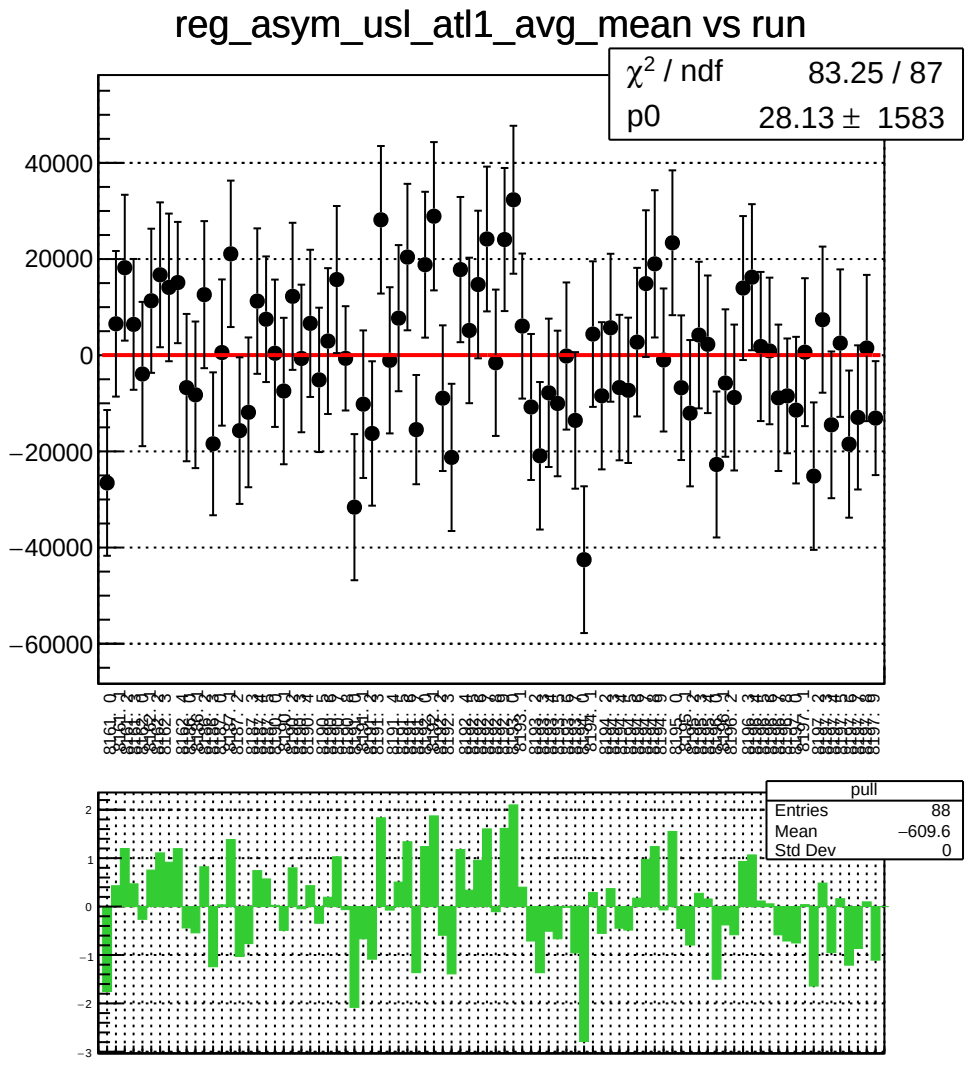

pull1D
Entries 88
Mean −0.06579
Std Dev 1.073

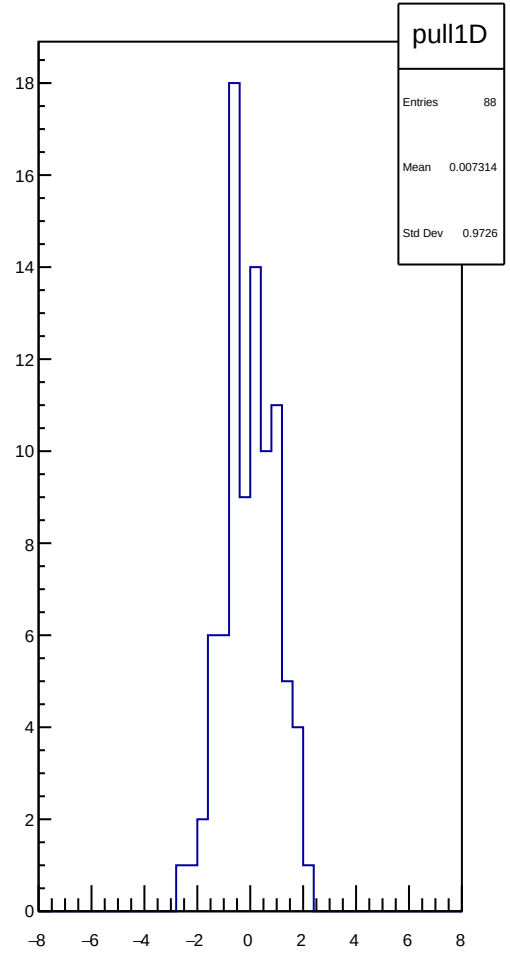

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 87
p0 30.12 ± 0.02505
70
60
50
40
30
20
10

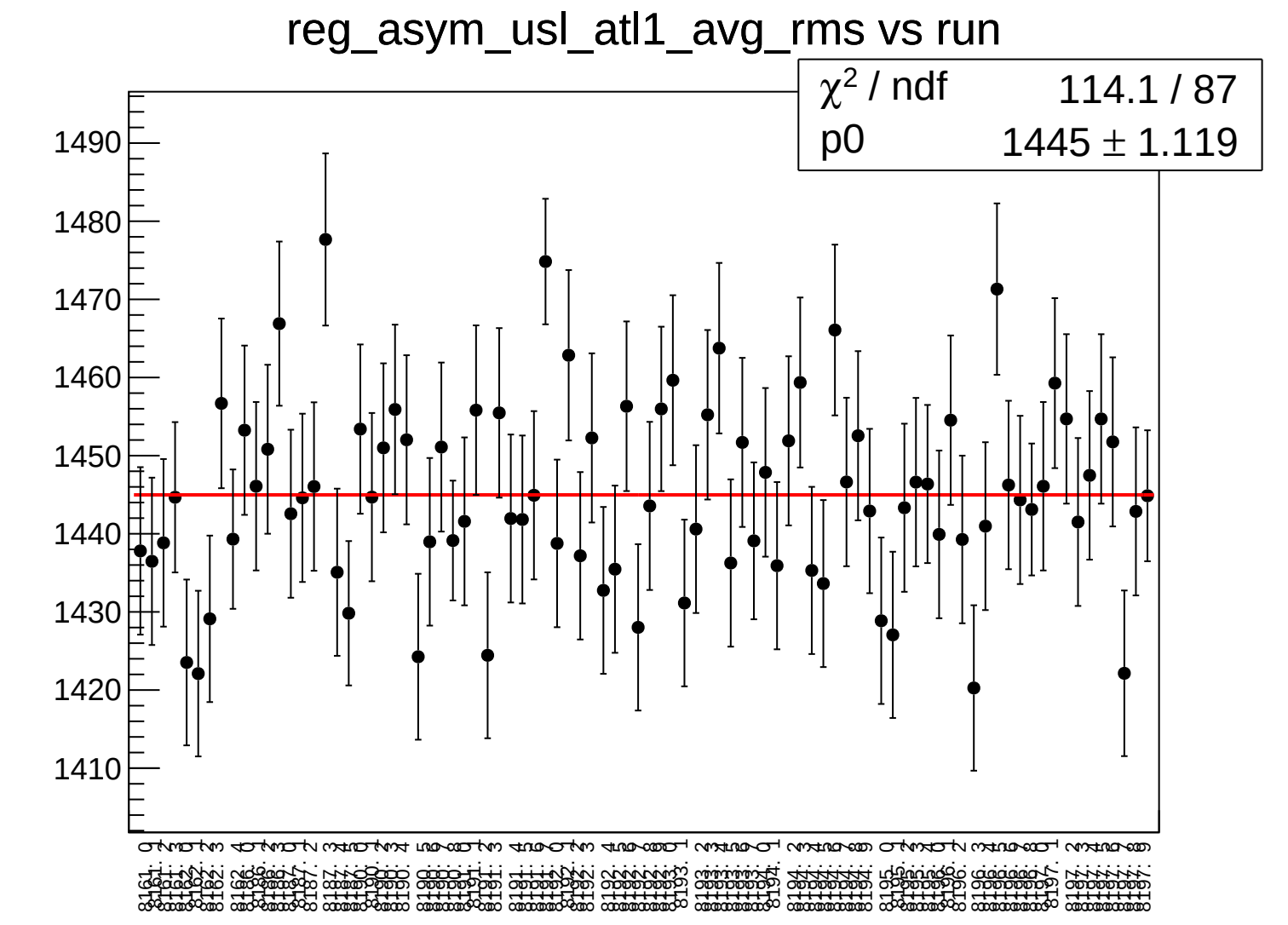

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.1 / 87
p0 −1.543e−13 ± 7.673e−14
pull
Entries 88
Mean 26.58
Std Dev 7.433

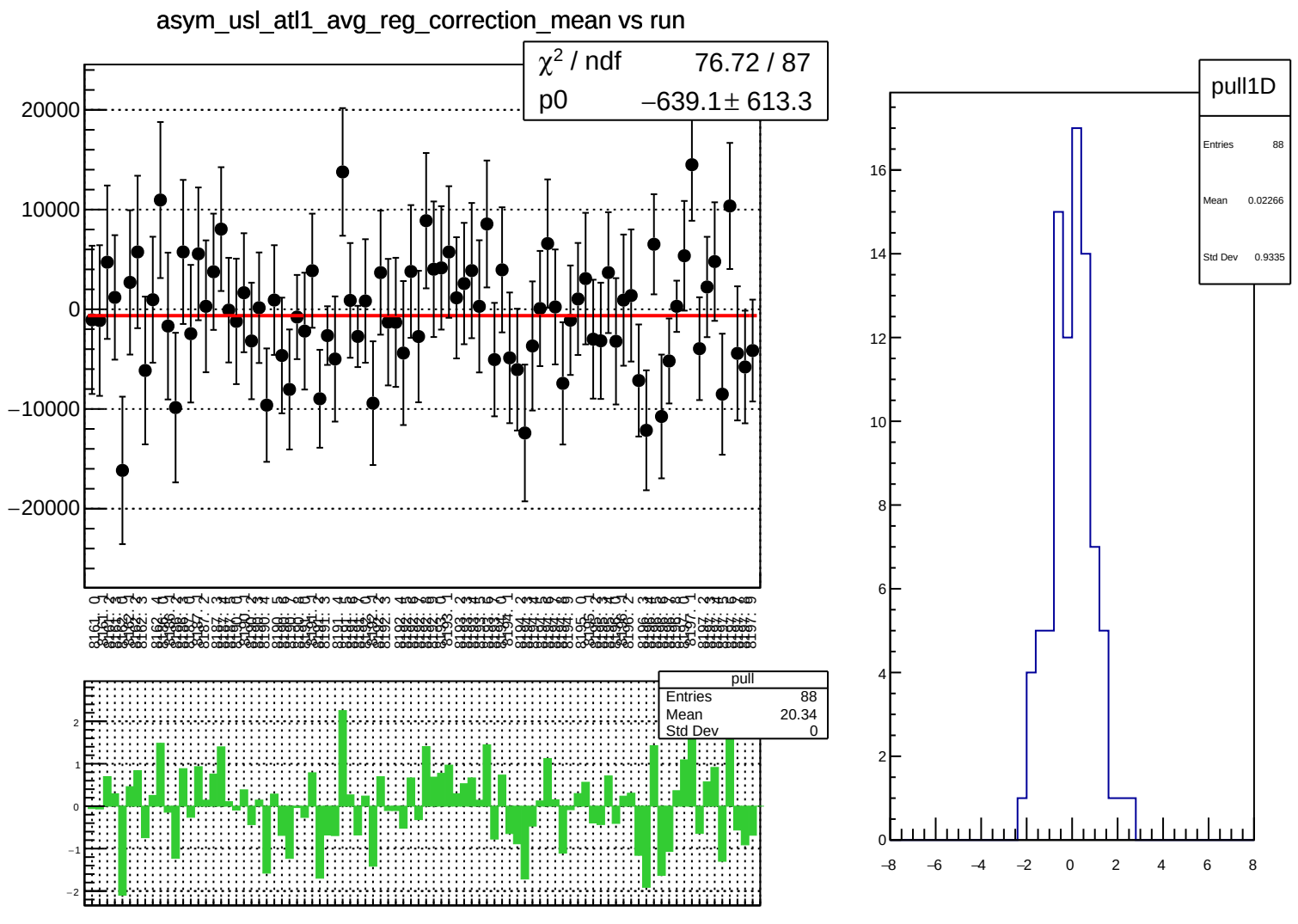

pull1D
Entries 88
Mean −0.0373
Std Dev 1.082

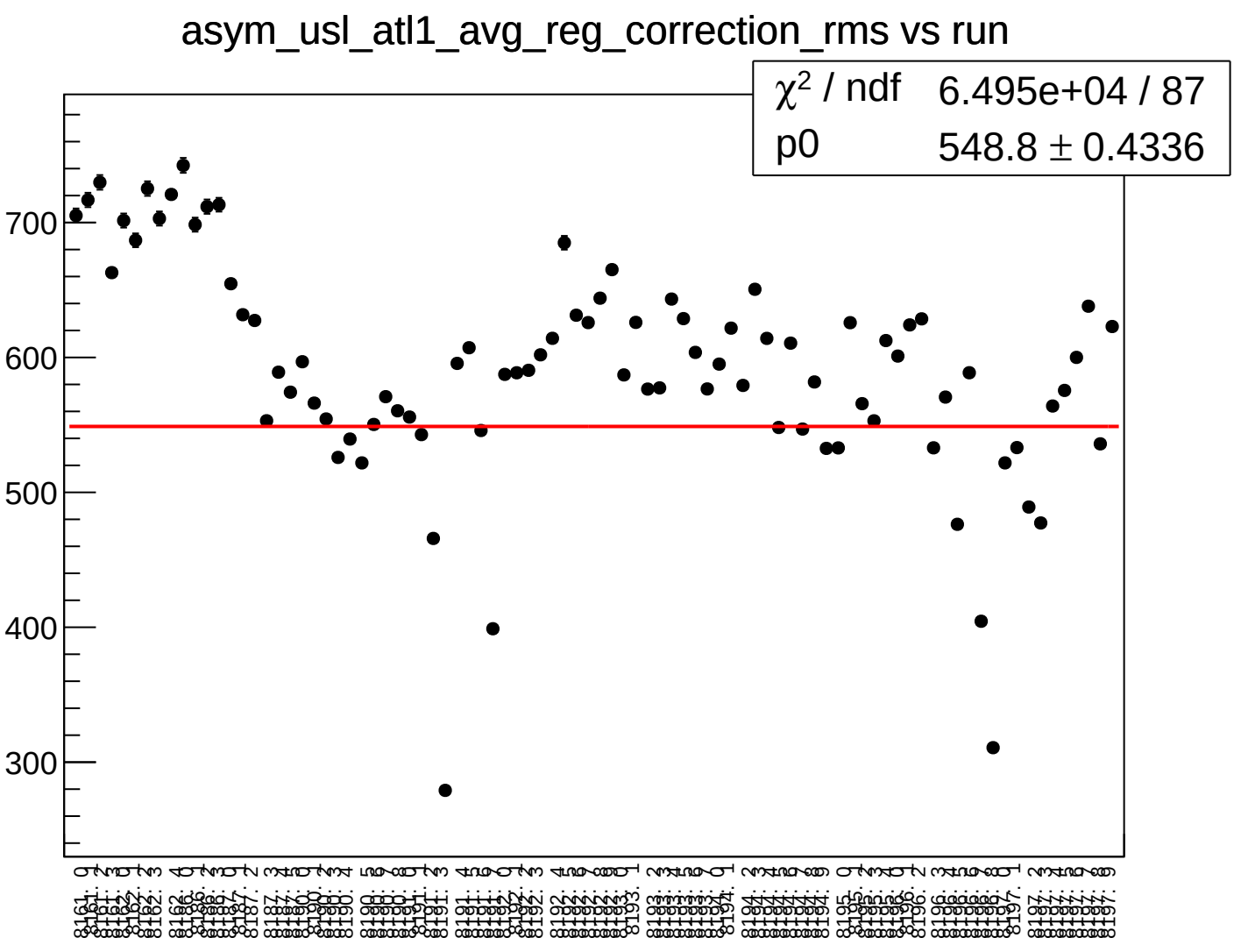

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.964e+05 / 87
p0 5.87e−11 ± 5.426e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

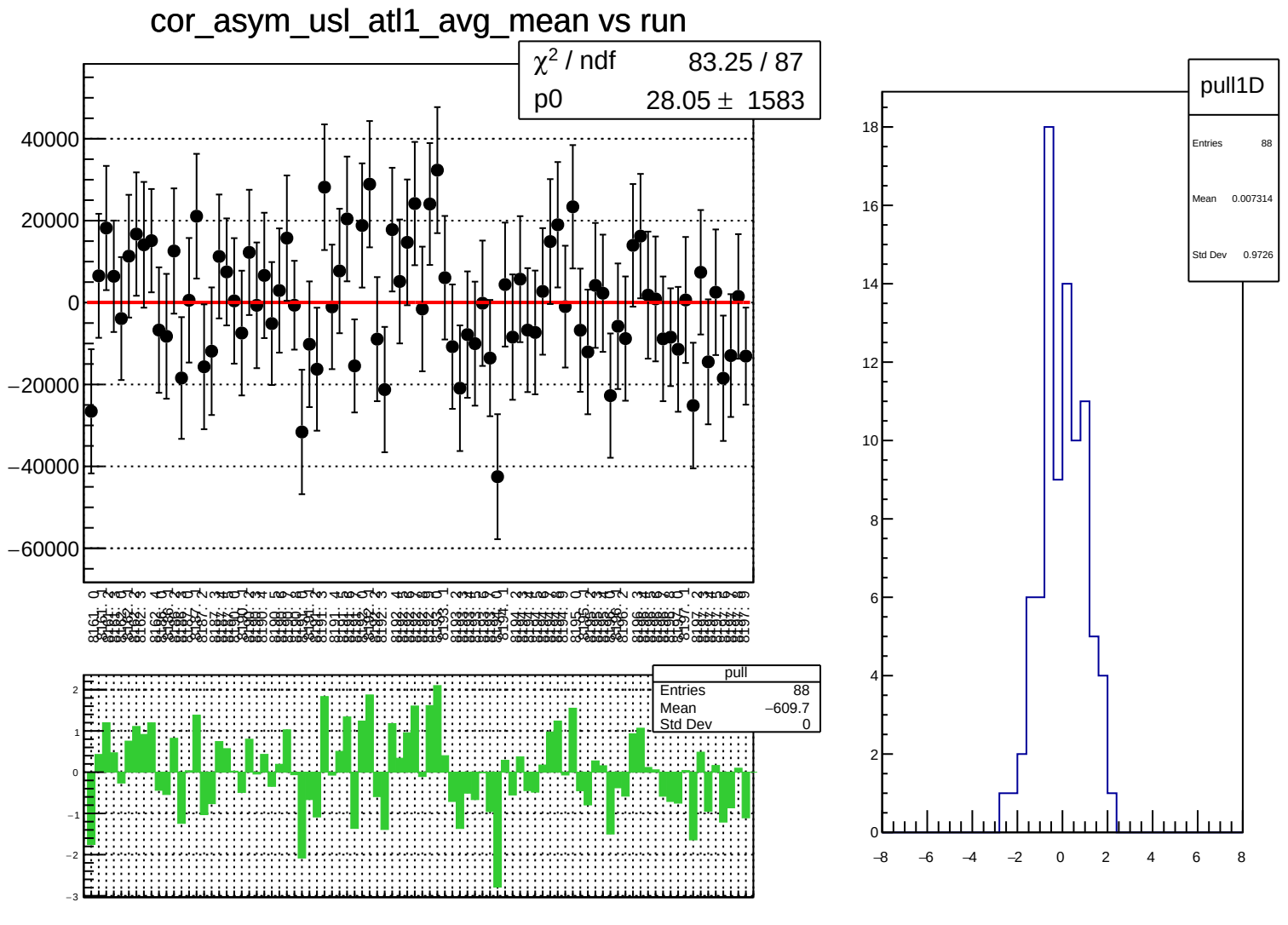

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 83.25 / 87
p0 28.13 ± 1583
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −609.6
Std Dev 0
2
1
0
−1
−2
−3

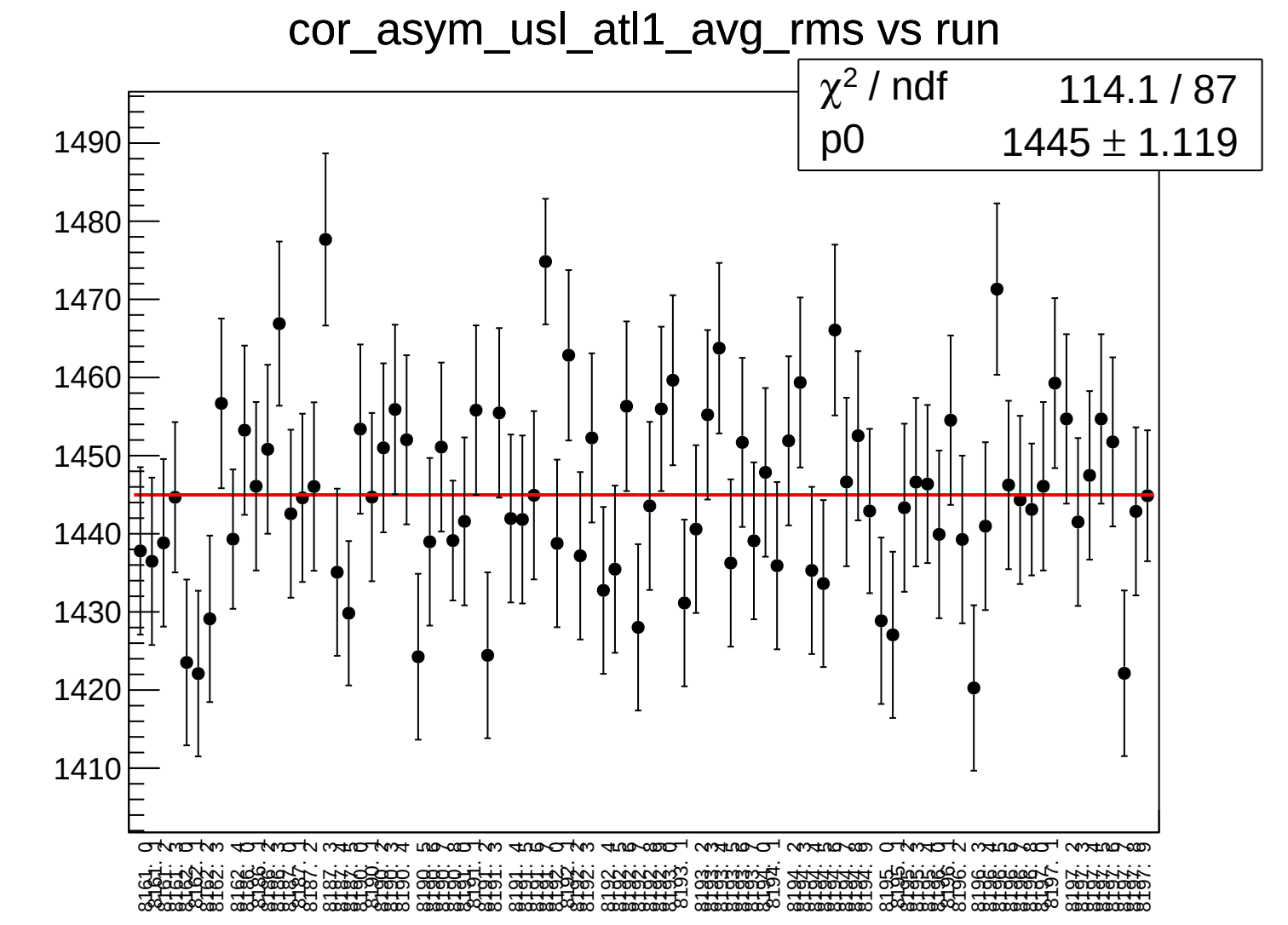

pull1D
Entries 88
Mean 0.007314
Std Dev 0.9726
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

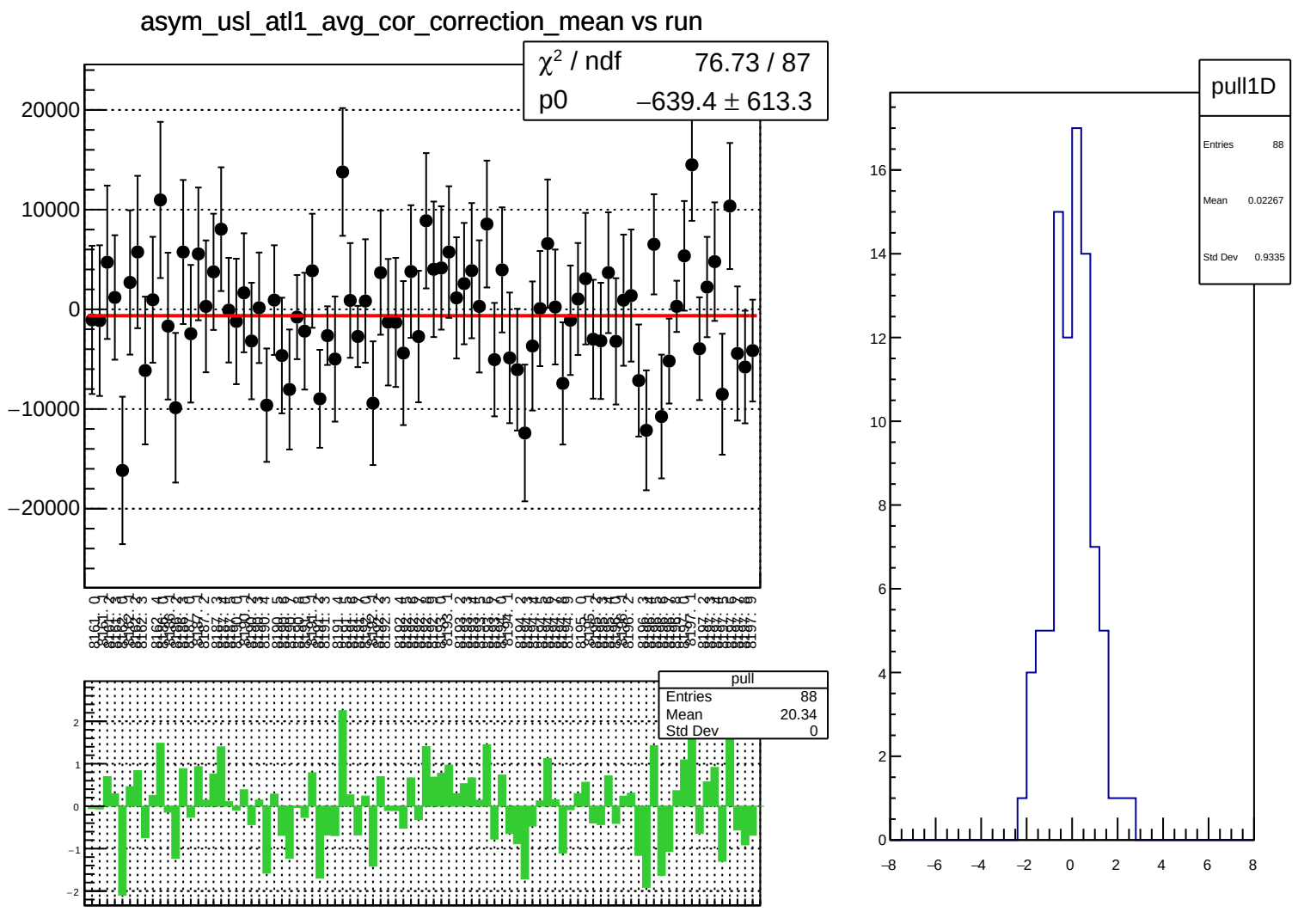

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 114.1 / 87
p0 1445 ± 1.119
1490
1480
1470
1460
1450
1440
1430
1420
1410

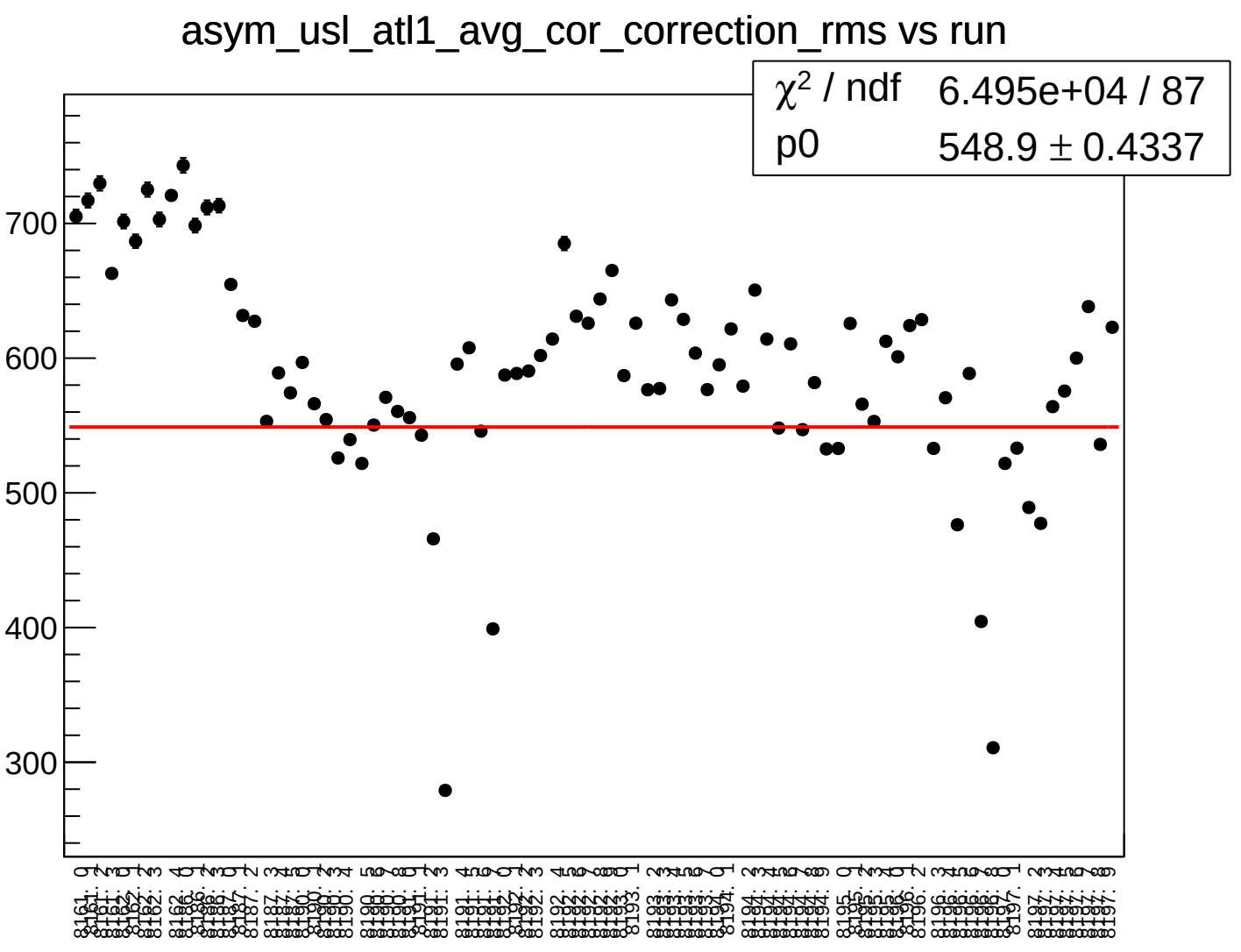

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 76.72 / 87
p0 −639.1 ± 613.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 20.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02266
Std Dev 0.9335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

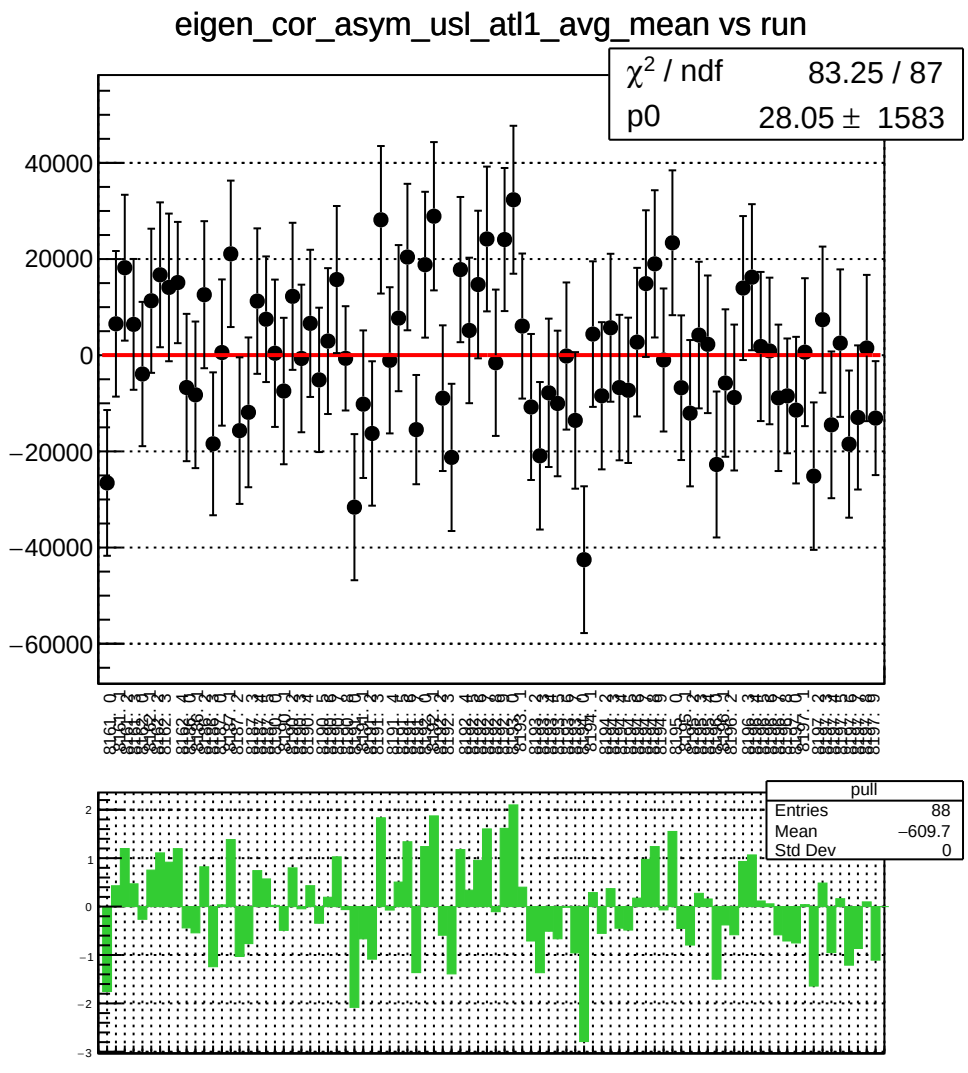

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 6.495e+04 / 87
p0 548.8 ± 0.4336
700
600
500
400
300

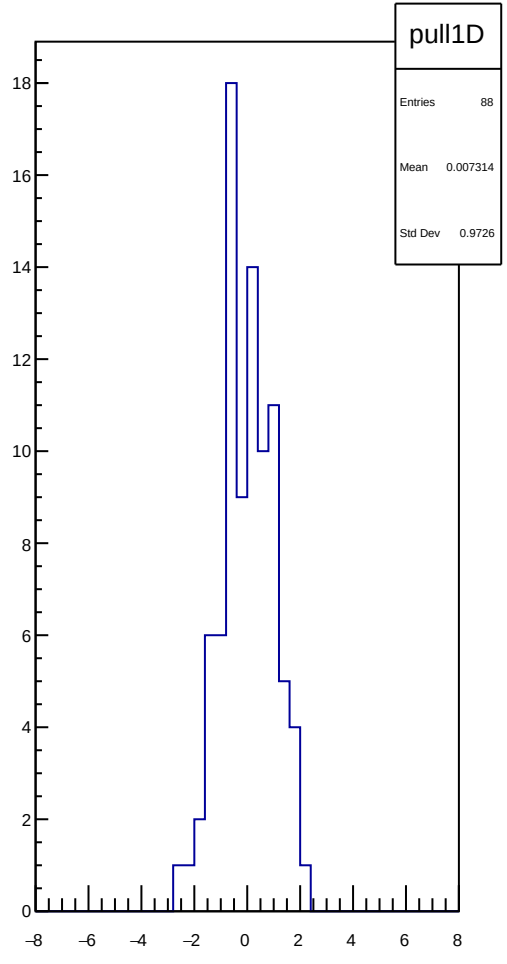

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 83.25 / 87
p0 28.05 ± 1583
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −609.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.007314
Std Dev 0.9726
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

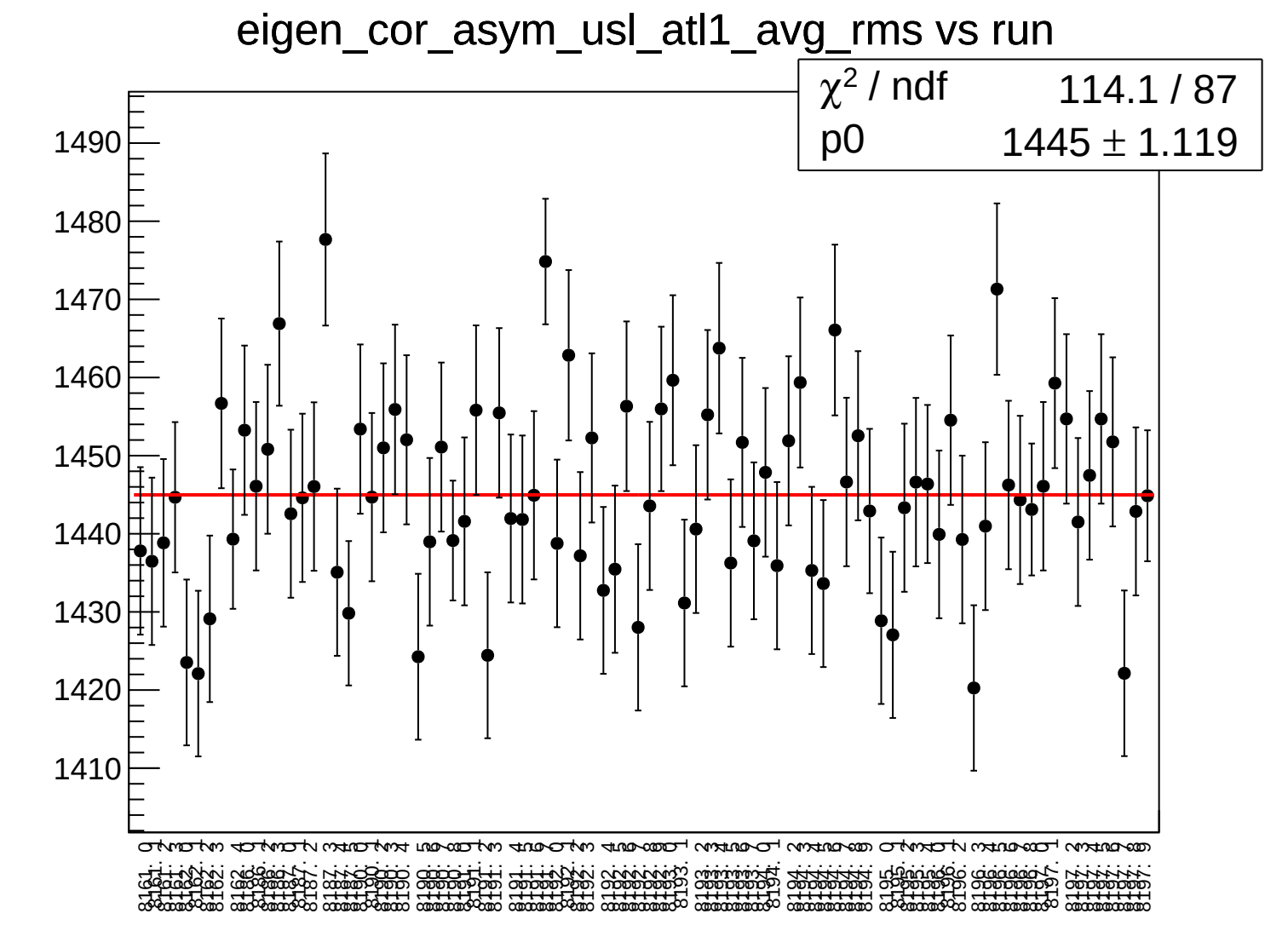

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 114.1 / 87
p0 1445 ± 1.119
1490
1480
1470
1460
1450
1440
1430
1420
1410

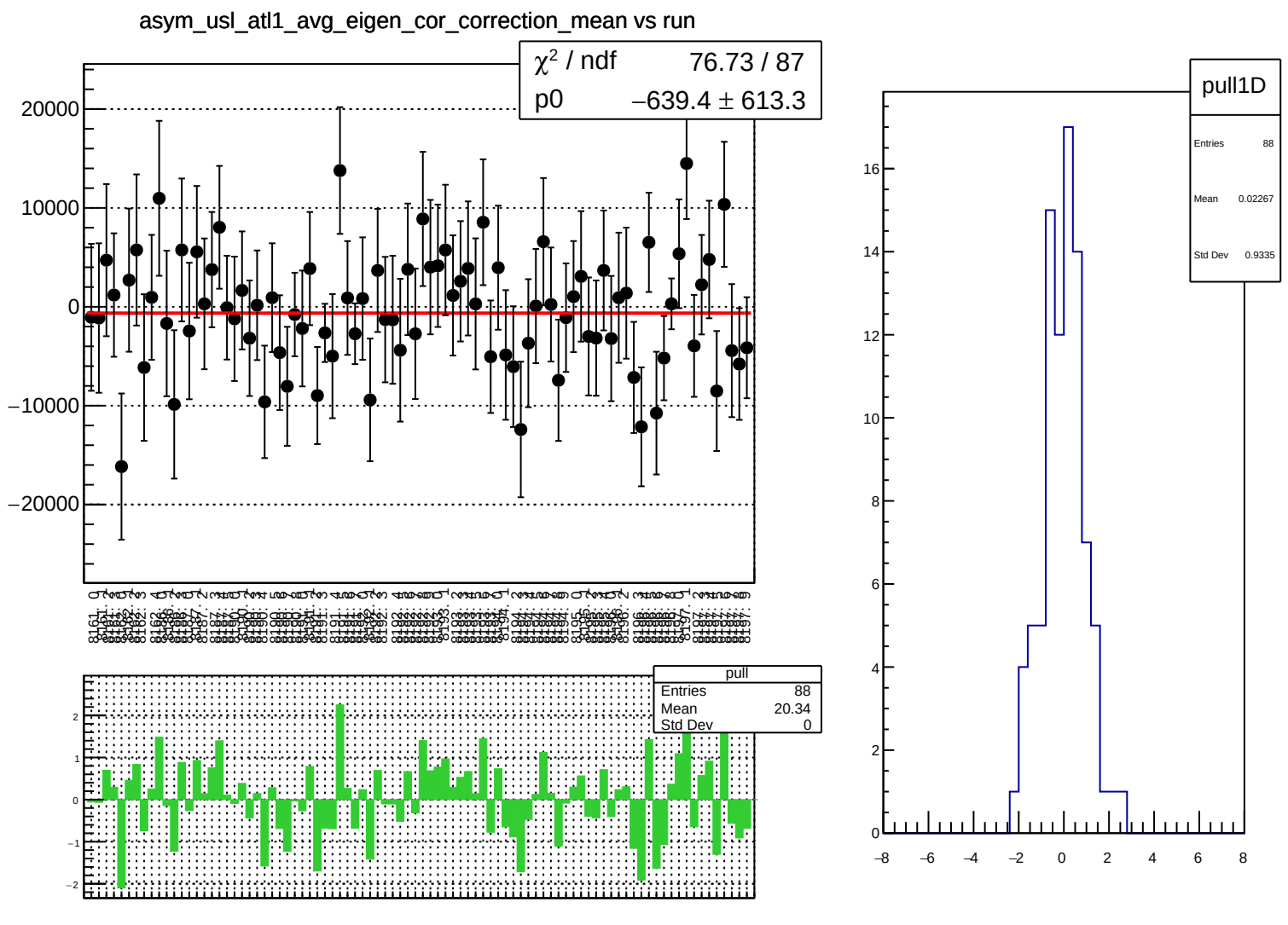

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 76.73 / 87
p0 −639.4 ± 613.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 20.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02267
Std Dev 0.9335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

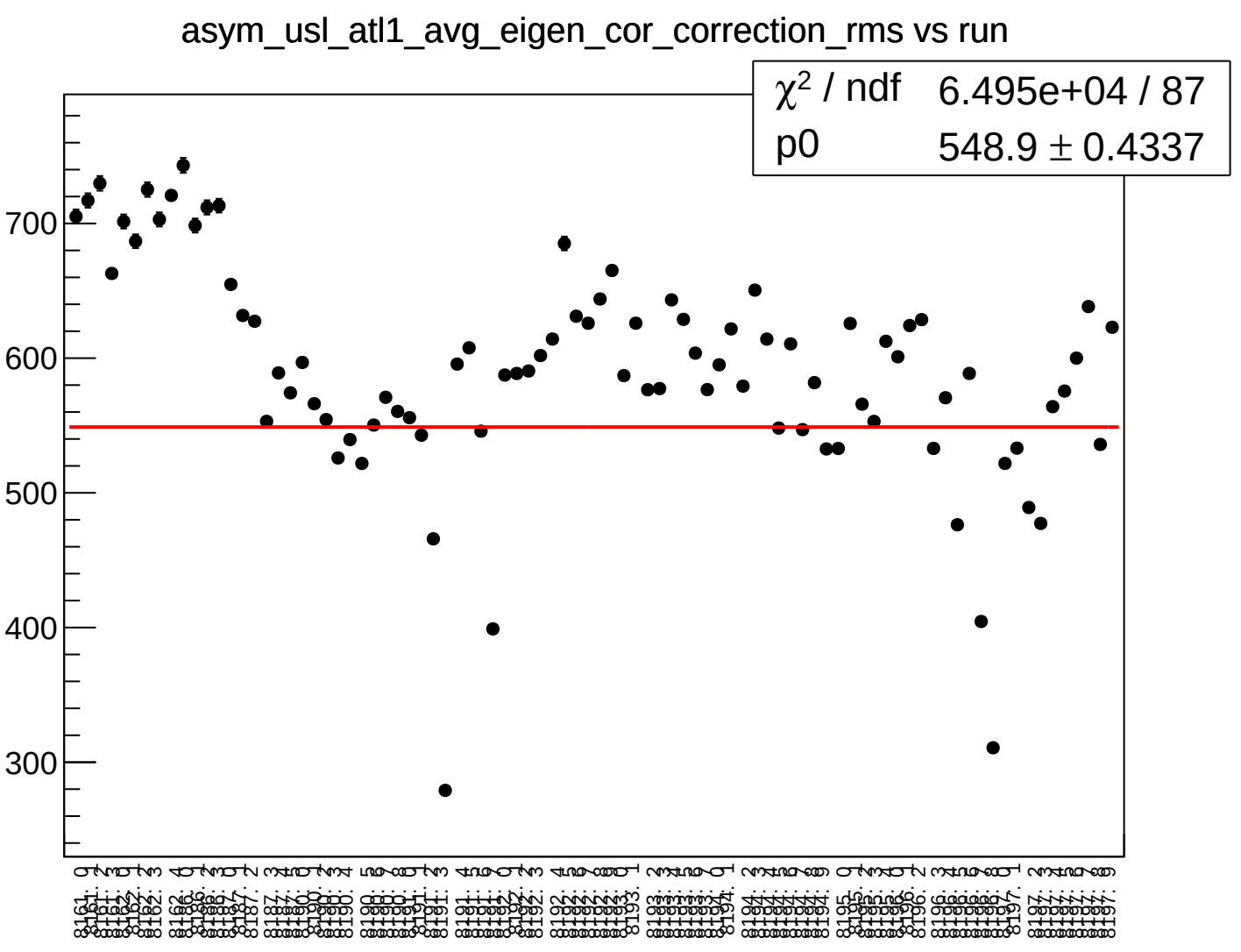

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 6.495e+04 / 87
p0 548.9 ± 0.4337
700
600
500
400
300

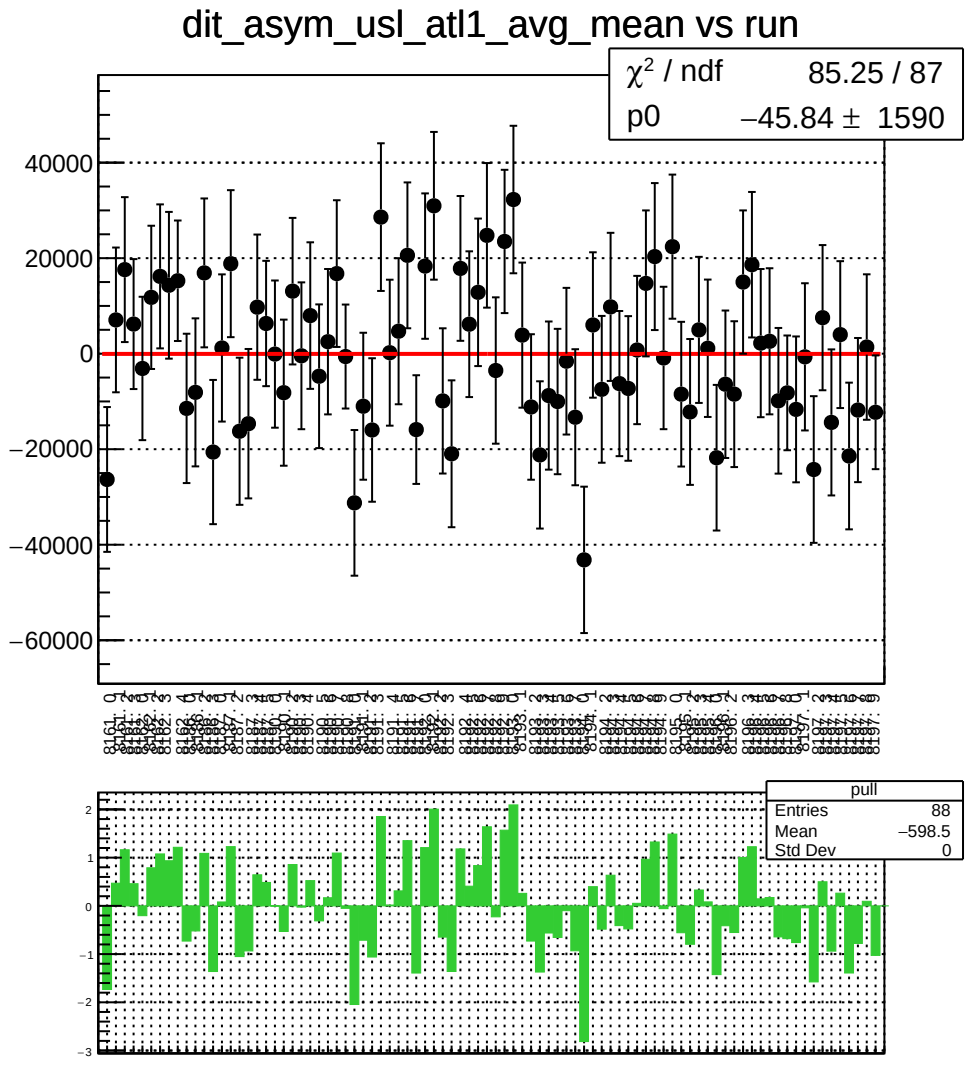

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 83.25 / 87
p0 28.05 ± 1583
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −609.7
Std Dev 0
2
1
0
−1
−2
−3

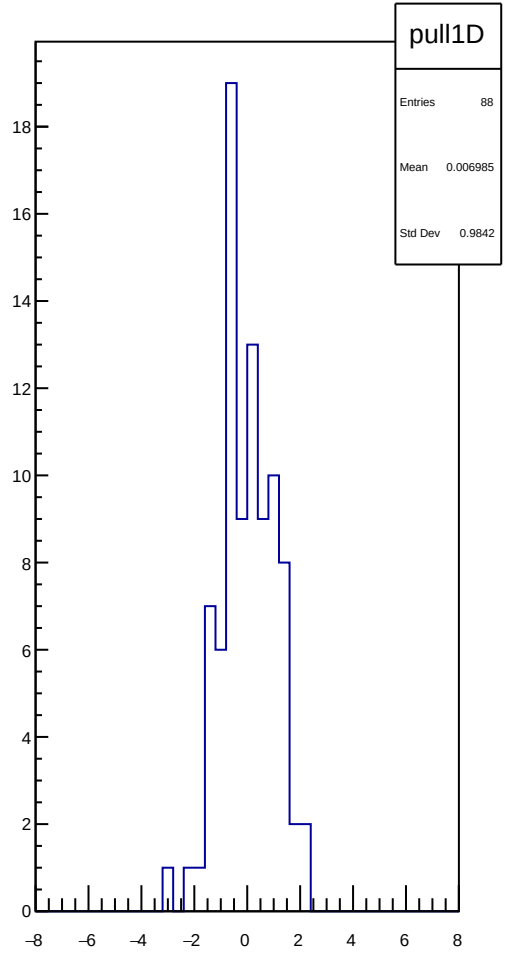

pull1D
Entries 88
Mean 0.007314
Std Dev 0.9726
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

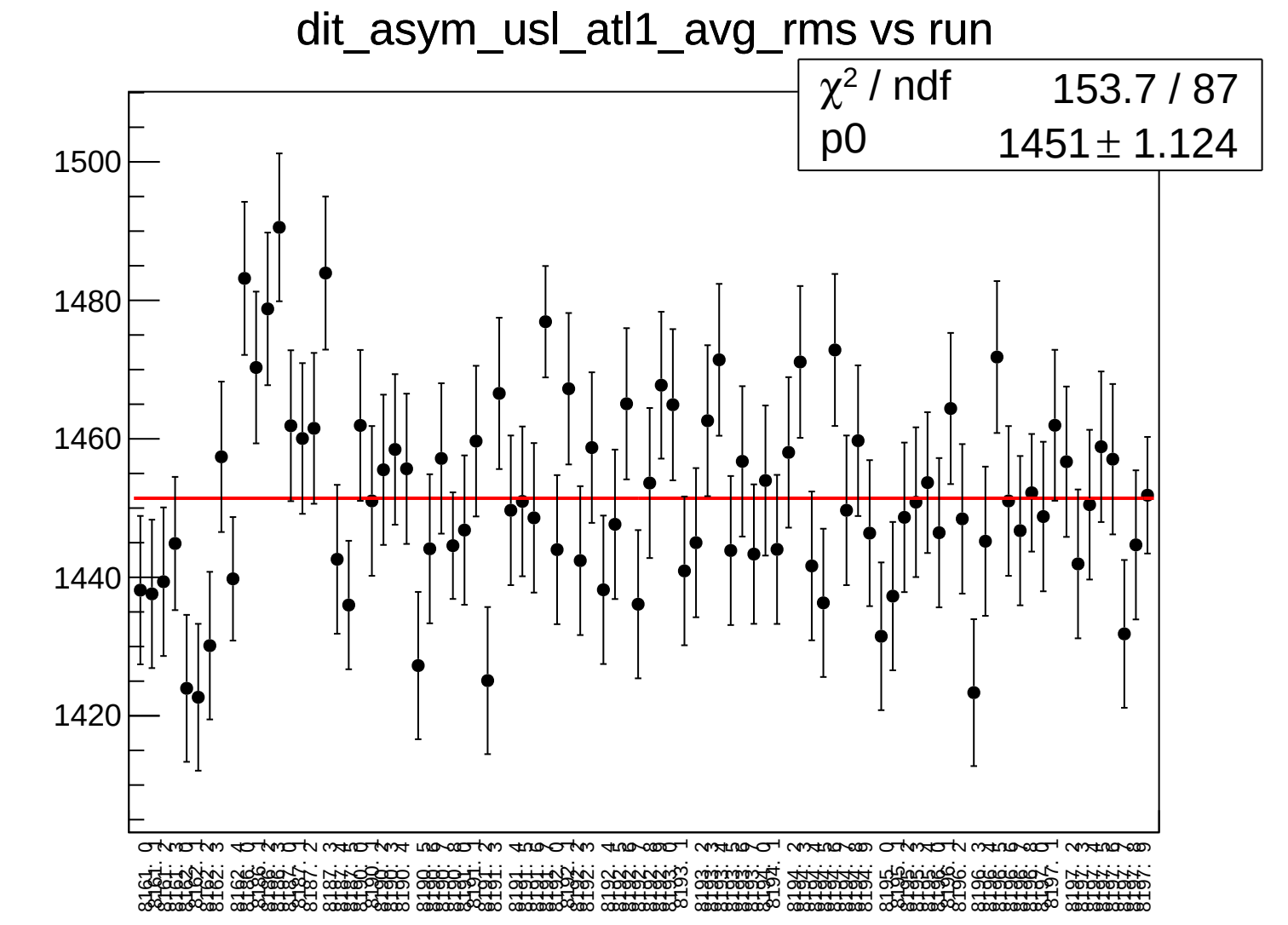

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 114.1 / 87
p0 1445 ± 1.119
1490
1480
1470
1460
1450
1440
1430
1420
1410

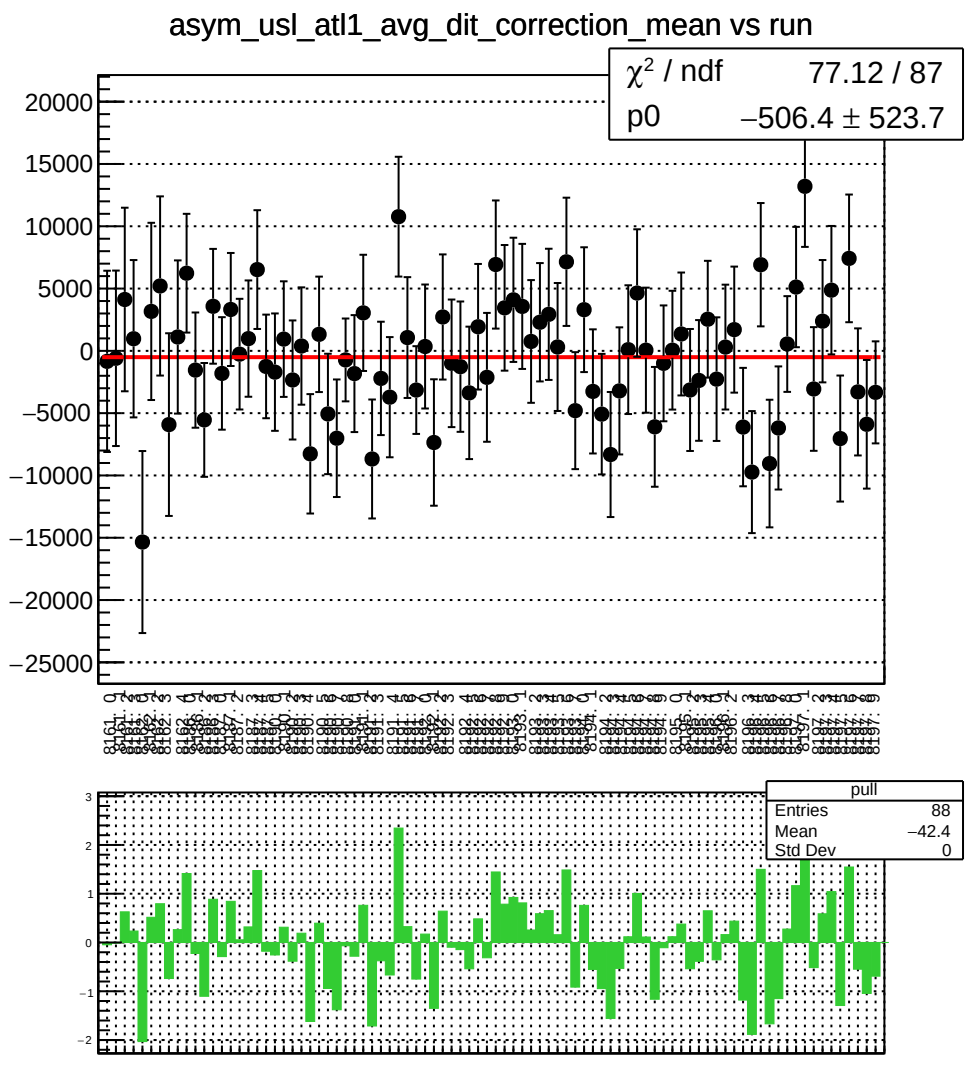

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.73 / 87
p0 −639.4 ± 613.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 20.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02267
Std Dev 0.9335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

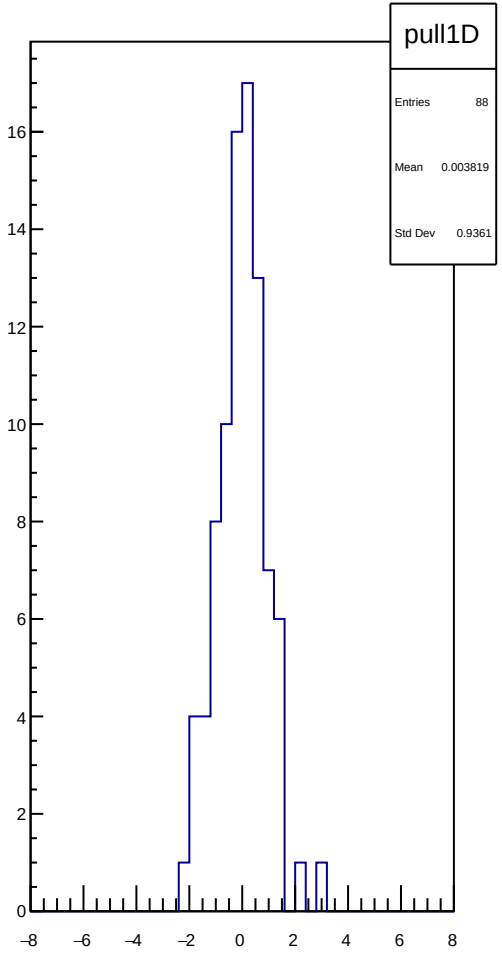

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.495e+04 / 87
p0 548.9 ± 0.4337
700
600
500
400
300

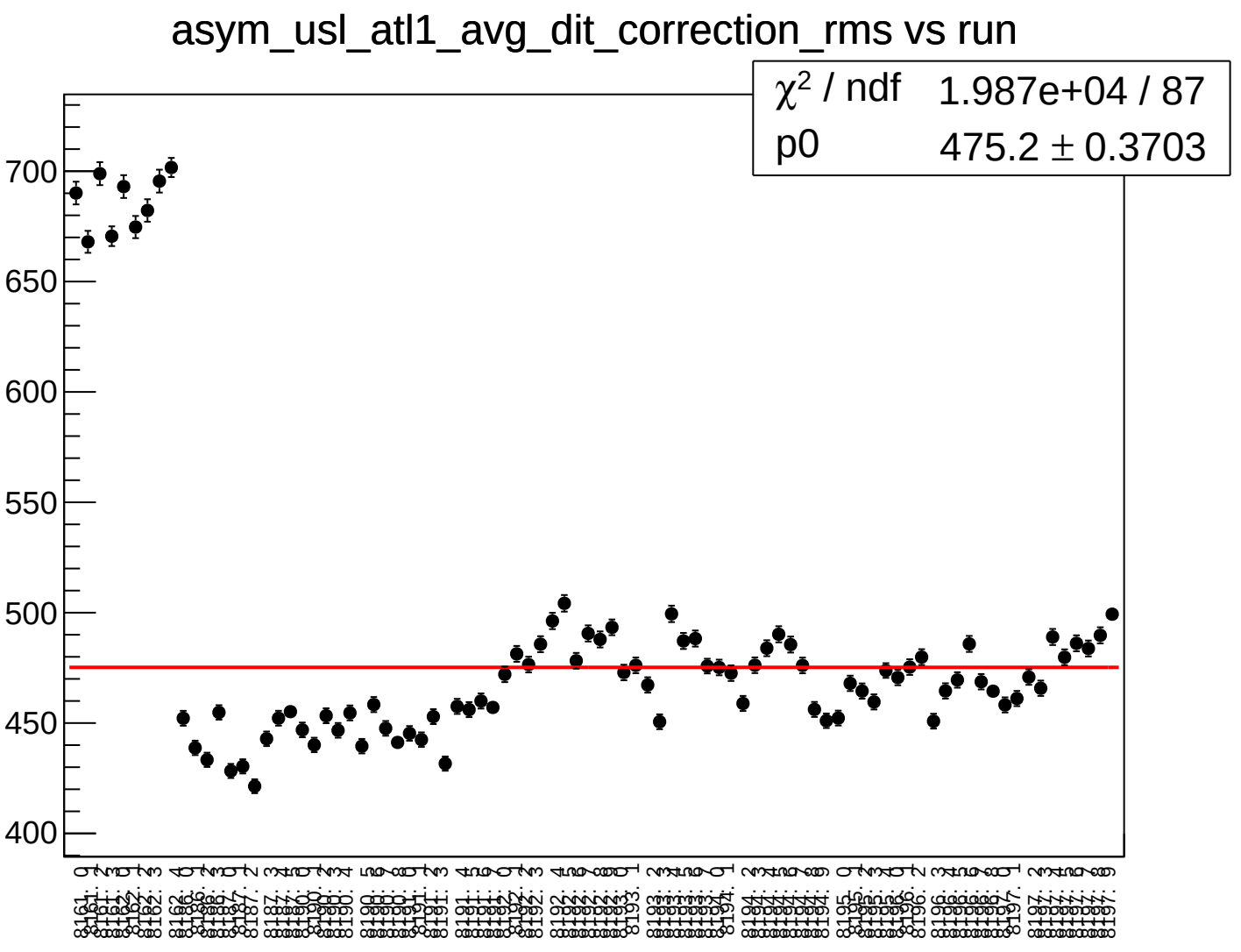

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 85.25 / 87
p0 −45.84 ± 1590
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −598.5
Std Dev 0
2
1
0
−1
−2
−3

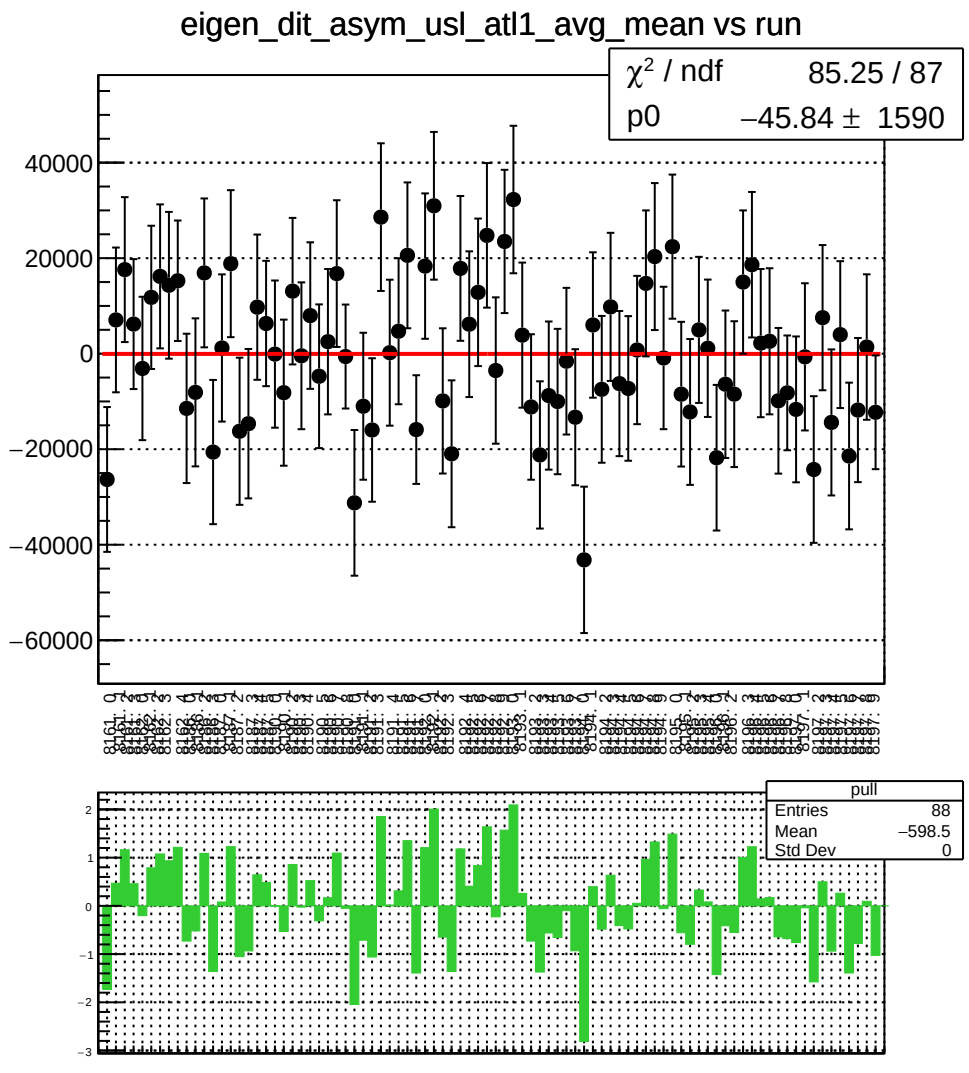

pull1D
Entries 88
Mean 0.006985
Std Dev 0.9842
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

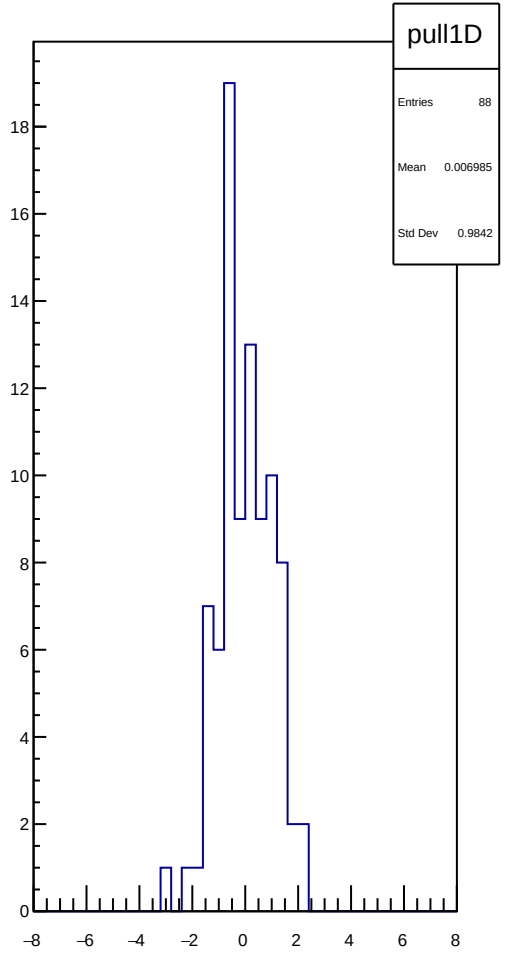

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 153.7 / 87
p0 1451 ± 1.124
1500
1480
1460
1440
1420

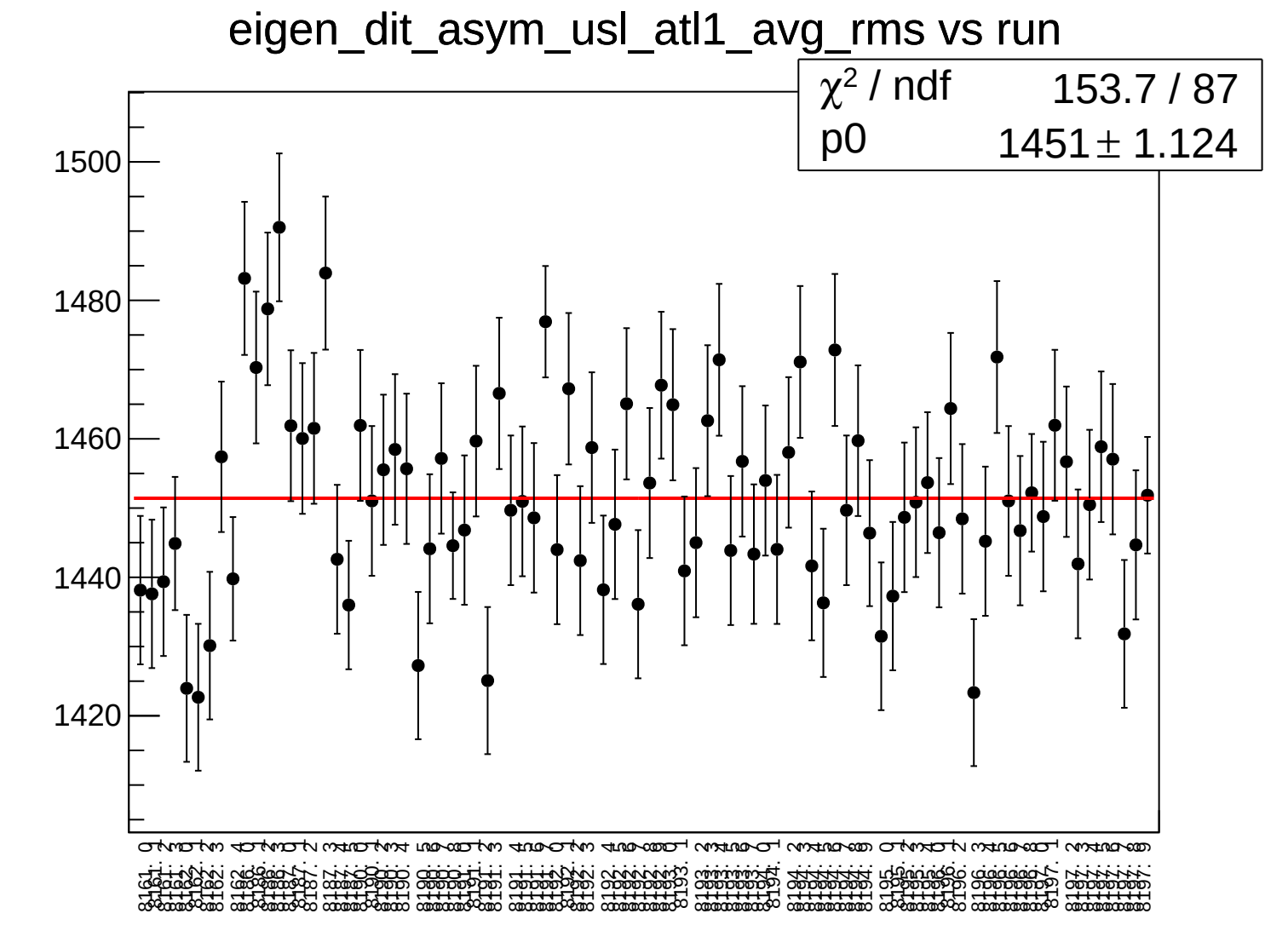

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 77.12 / 87
p0 −506.4 ± 523.7
pull
Entries 88
Mean −42.4
Std Dev 0

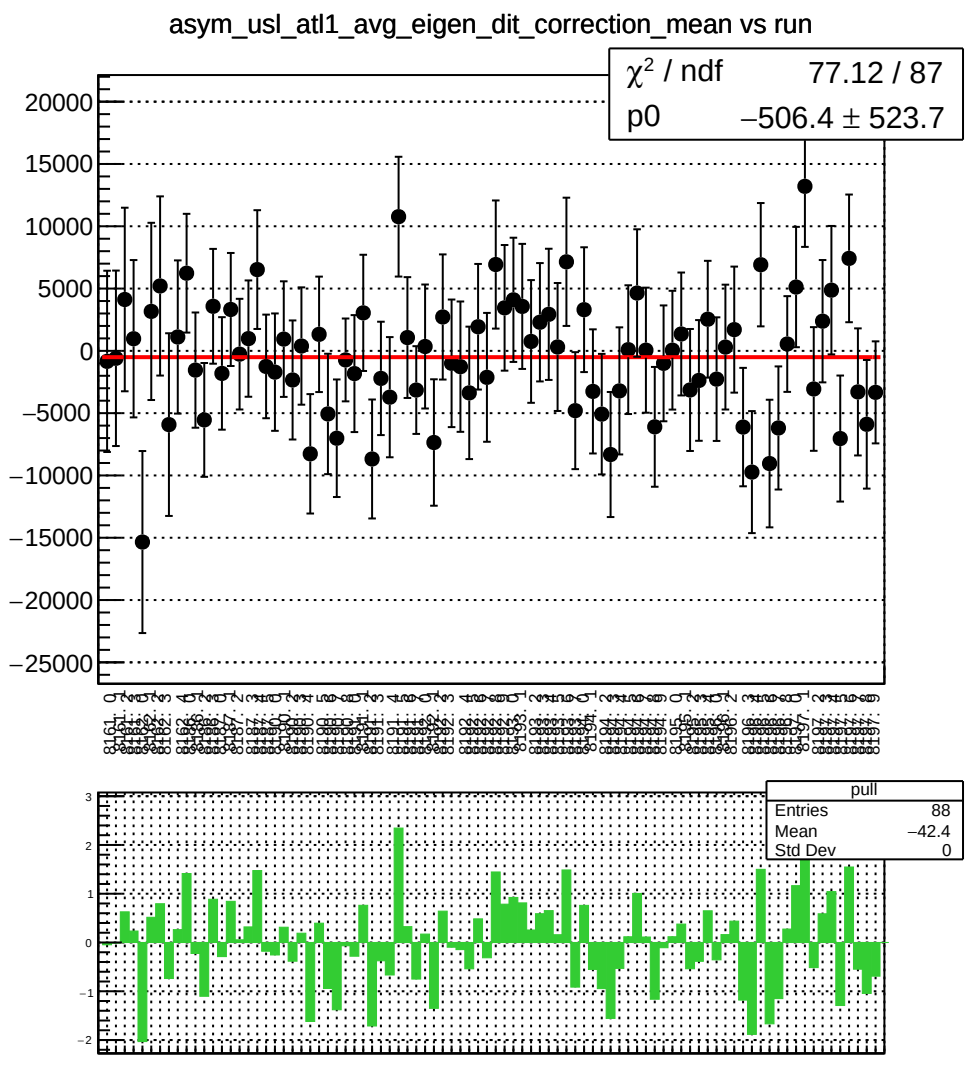

pull1D
Entries 88
Mean 0.003819
Std Dev 0.9361

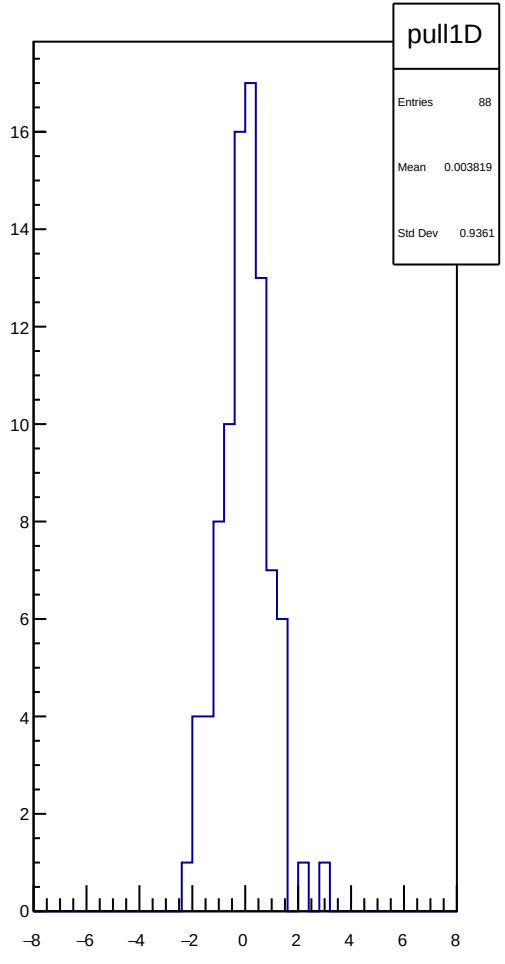

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.987e+04 / 87
p0 475.2 ± 0.3703
700
650
600
550
500
450
400

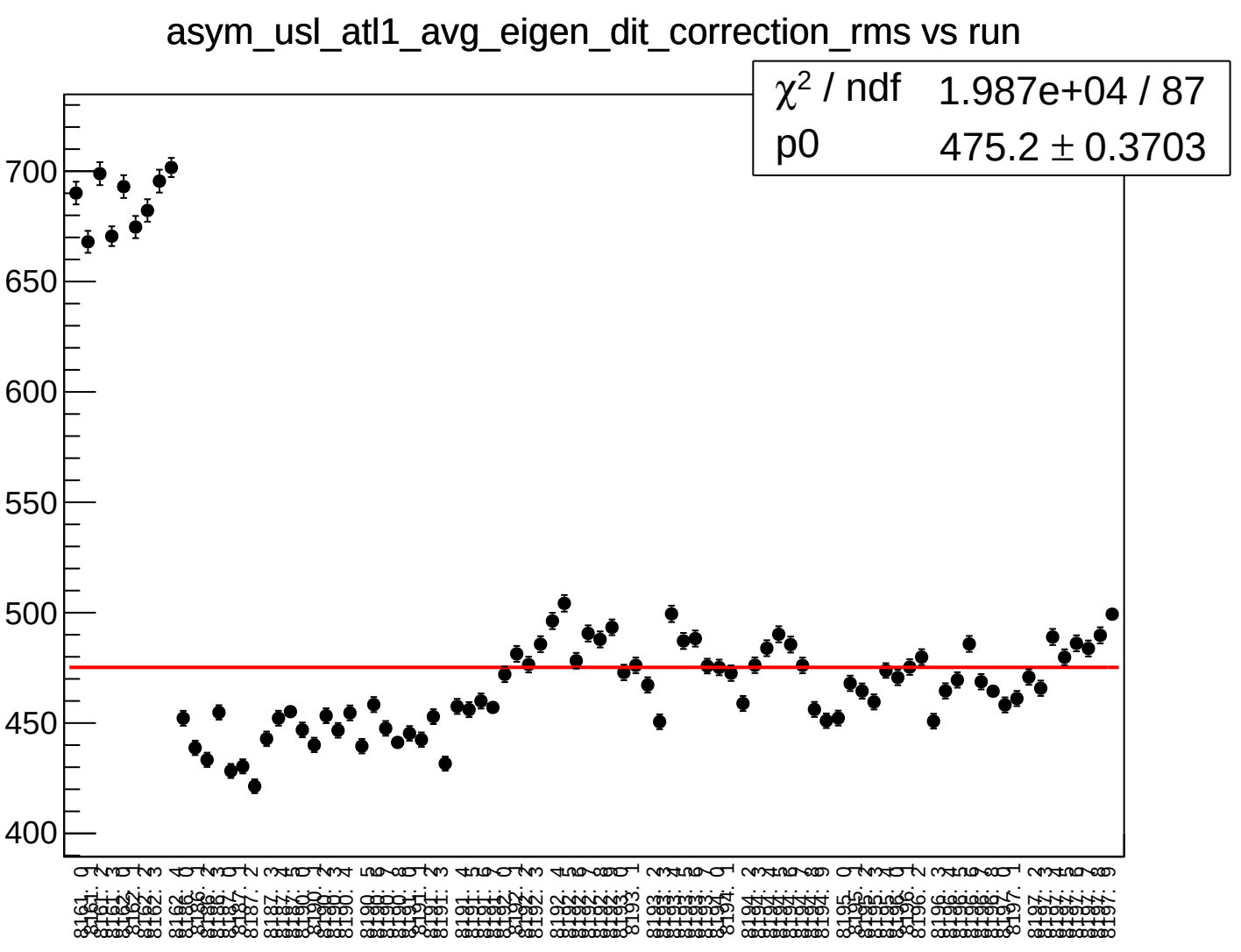

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 85.25 / 87
p0 −45.84 ± 1590
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −598.5
Std Dev 0
2
1
0
−1
−2
−3

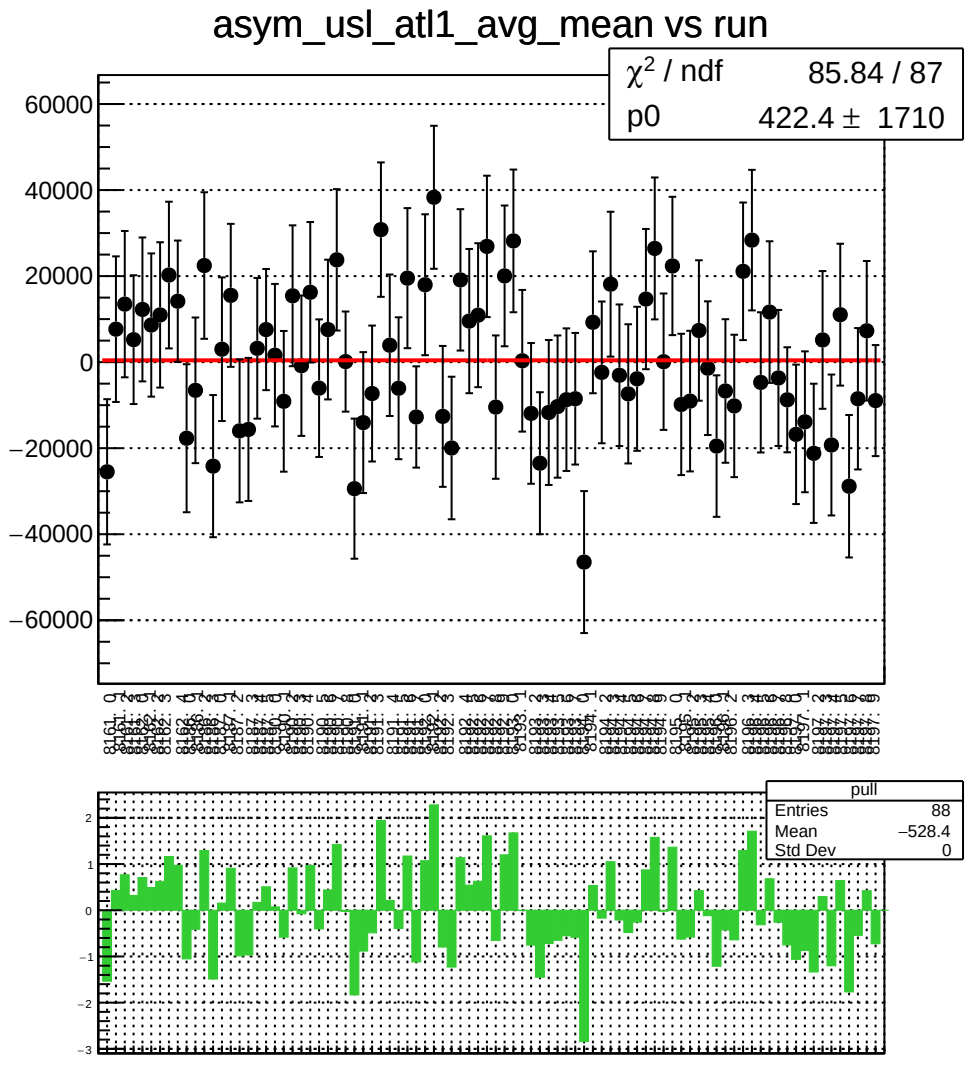

pull1D
Entries 88
Mean 0.006985
Std Dev 0.9842
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

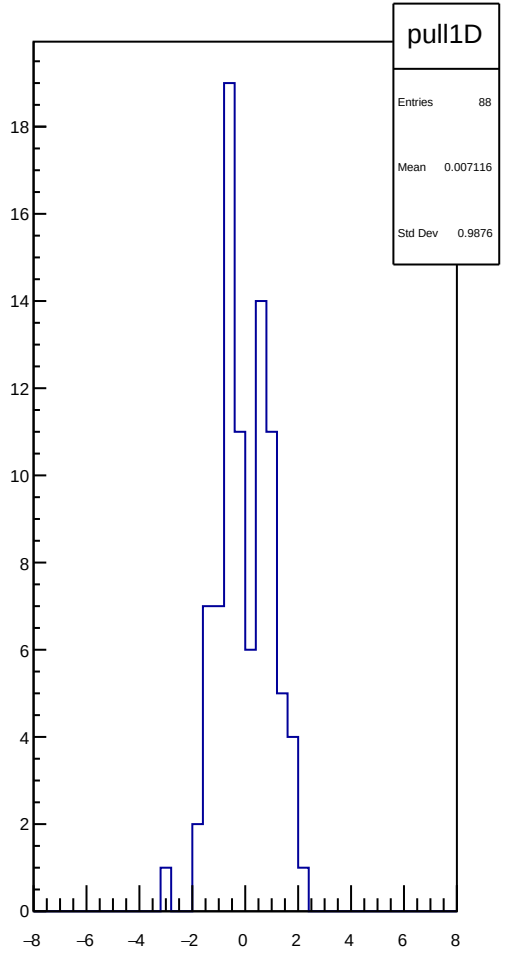

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 153.7 / 87
p0 1451 ± 1.124
1500
1480
1460
1440
1420

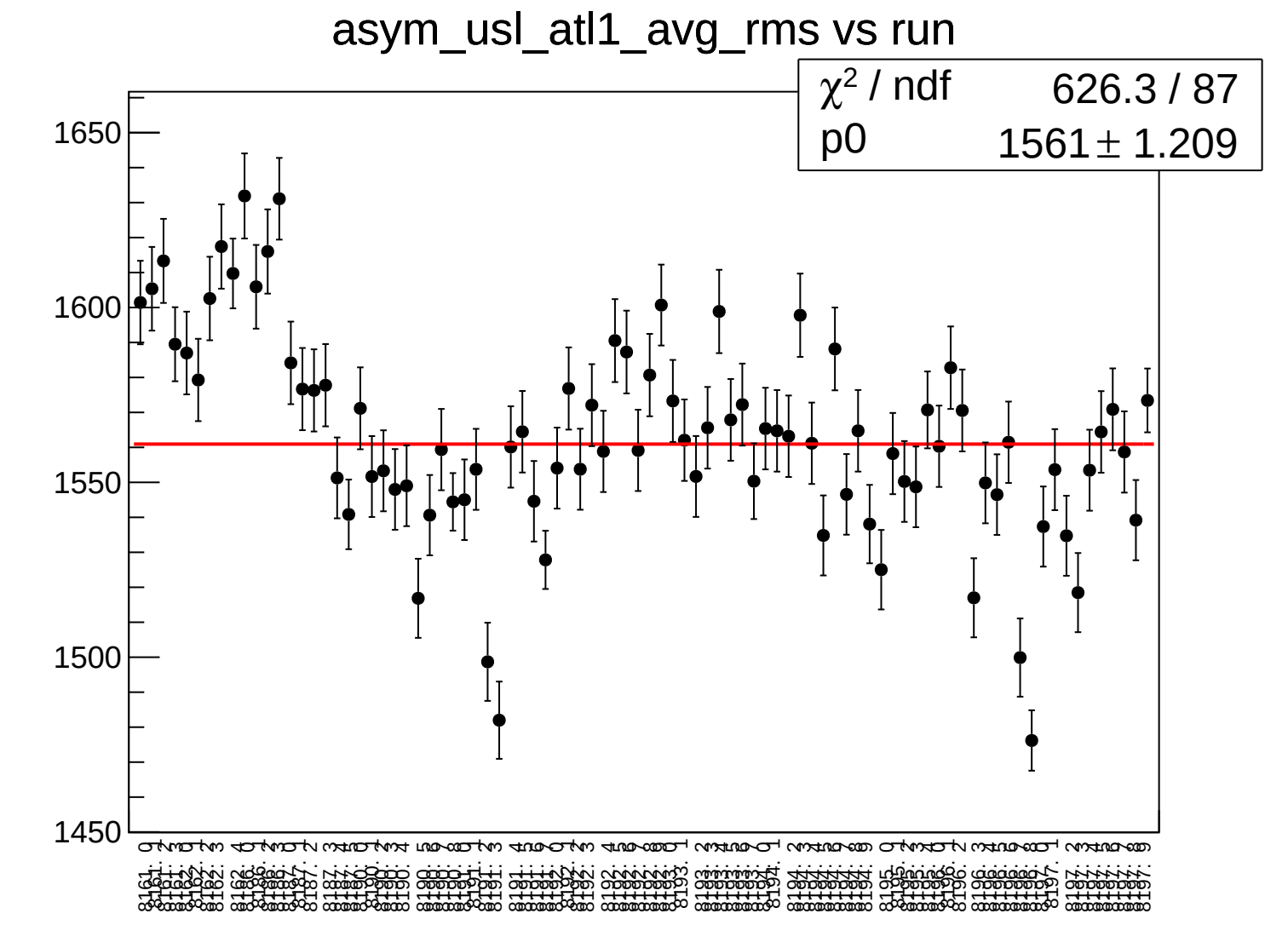

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.12 / 87
p0 −506.4 ± 523.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean −42.4
Std Dev 0
3
2
1
0
−1
−2

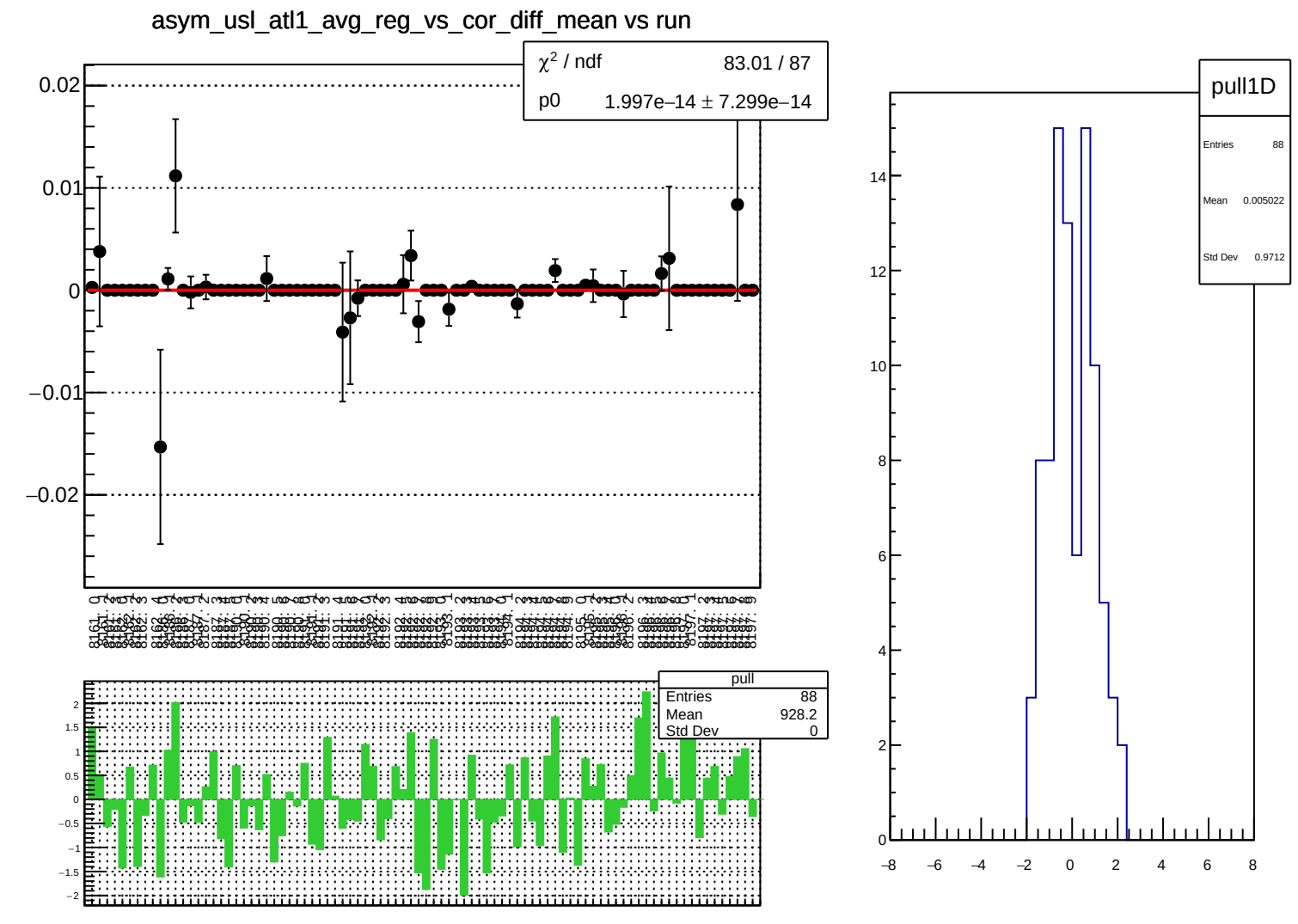

pull1D
Entries 88
Mean 0.003819
Std Dev 0.9361
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

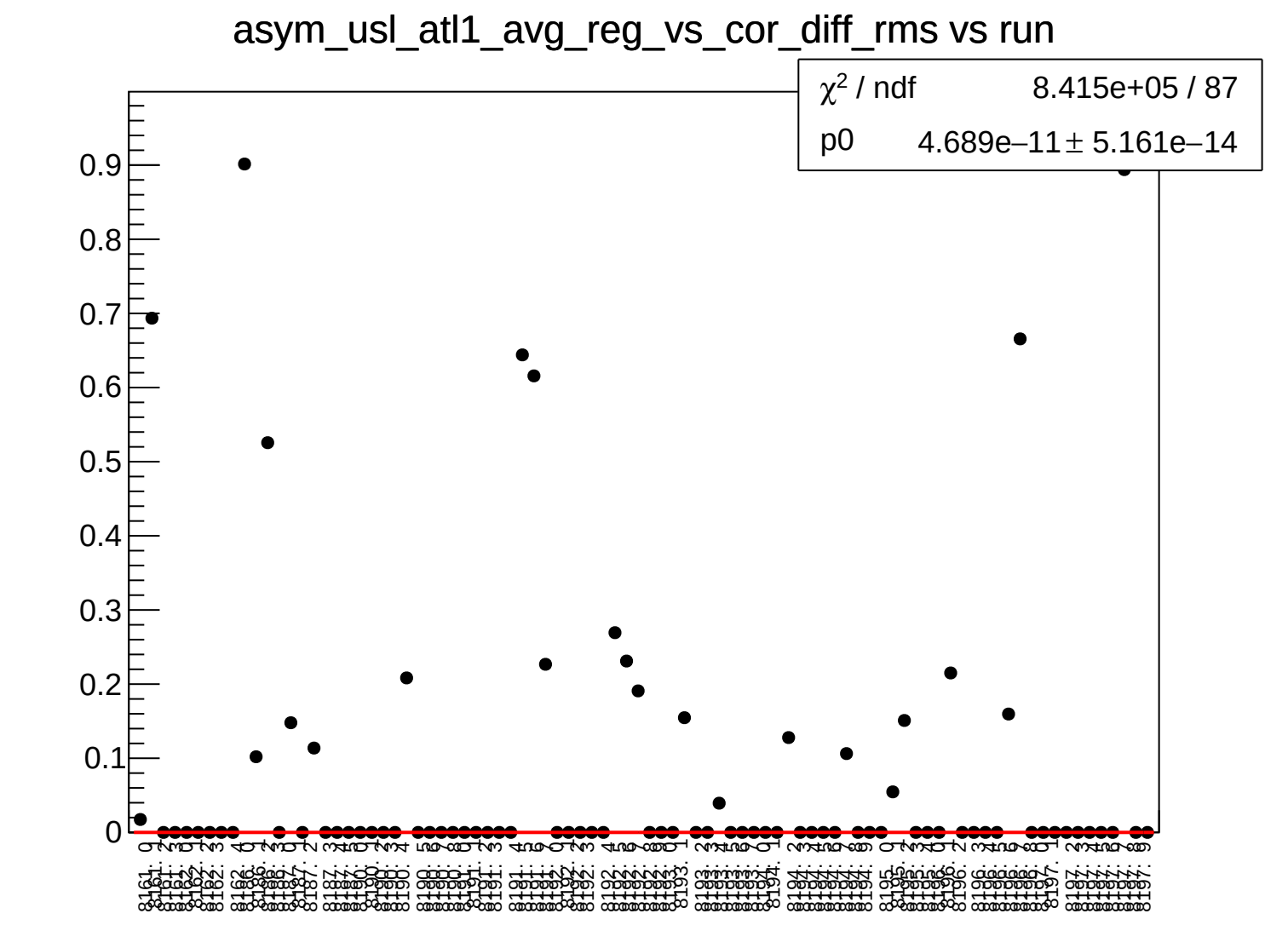

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.987e+04 / 87
p0 475.2 ± 0.3703
700
650
600
550
500
450
400

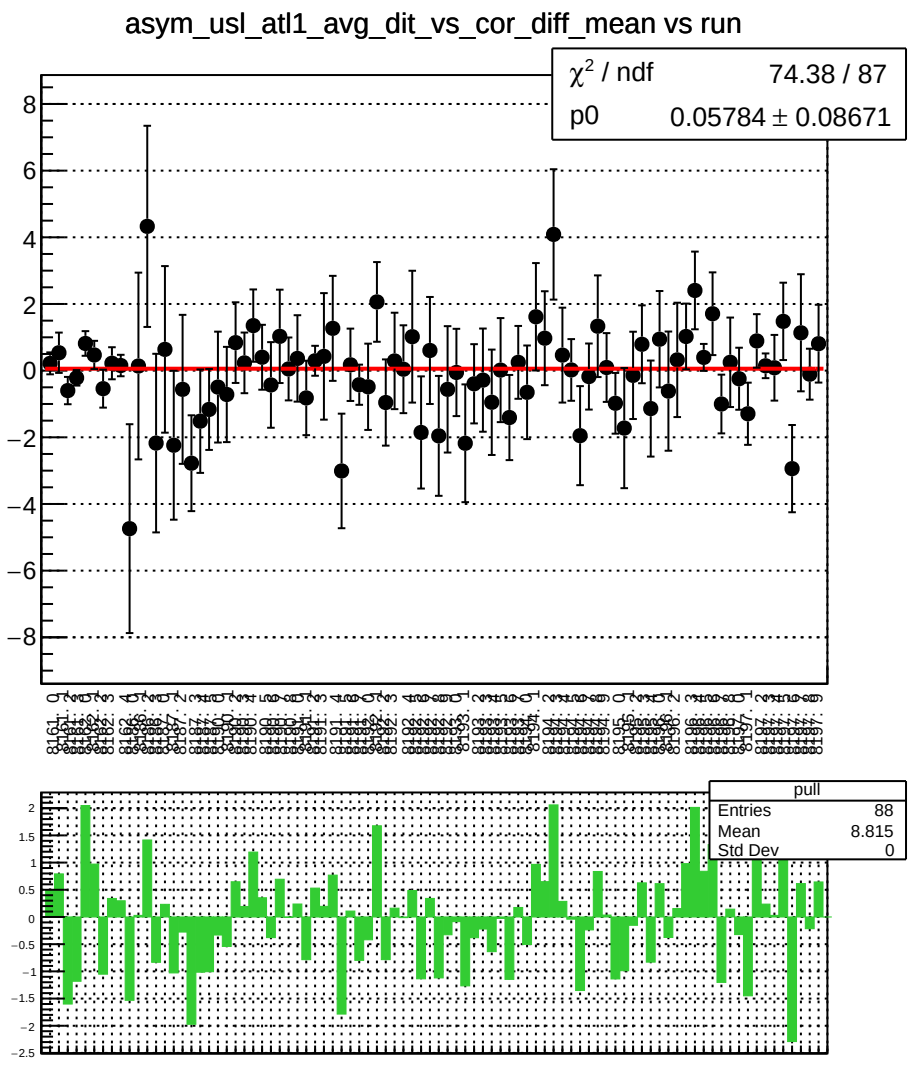

asym_usl_atl1_avg_mean vs run
χ² / ndf 85.84 / 87
p0 422.4 ± 1710
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −528.4
Std Dev 0
2
1
0
−1
−2
−3

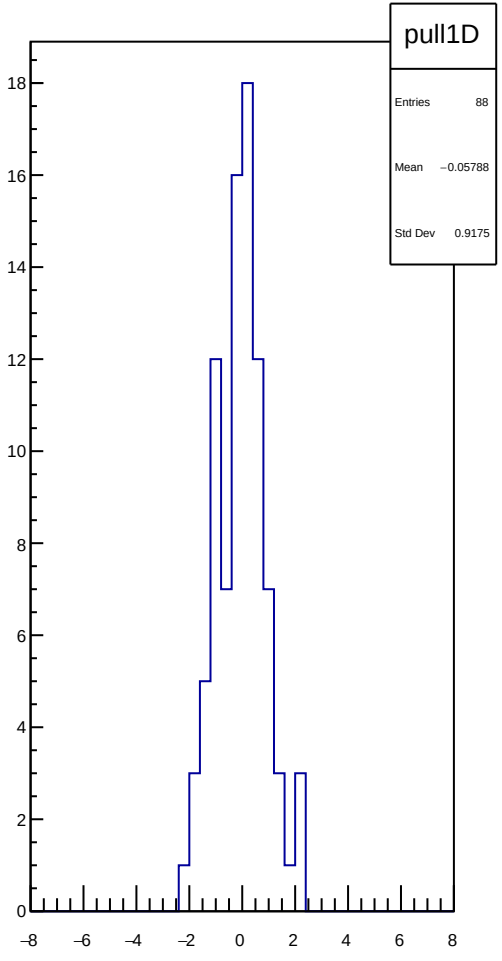

pull1D
Entries 88
Mean 0.007116
Std Dev 0.9876
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

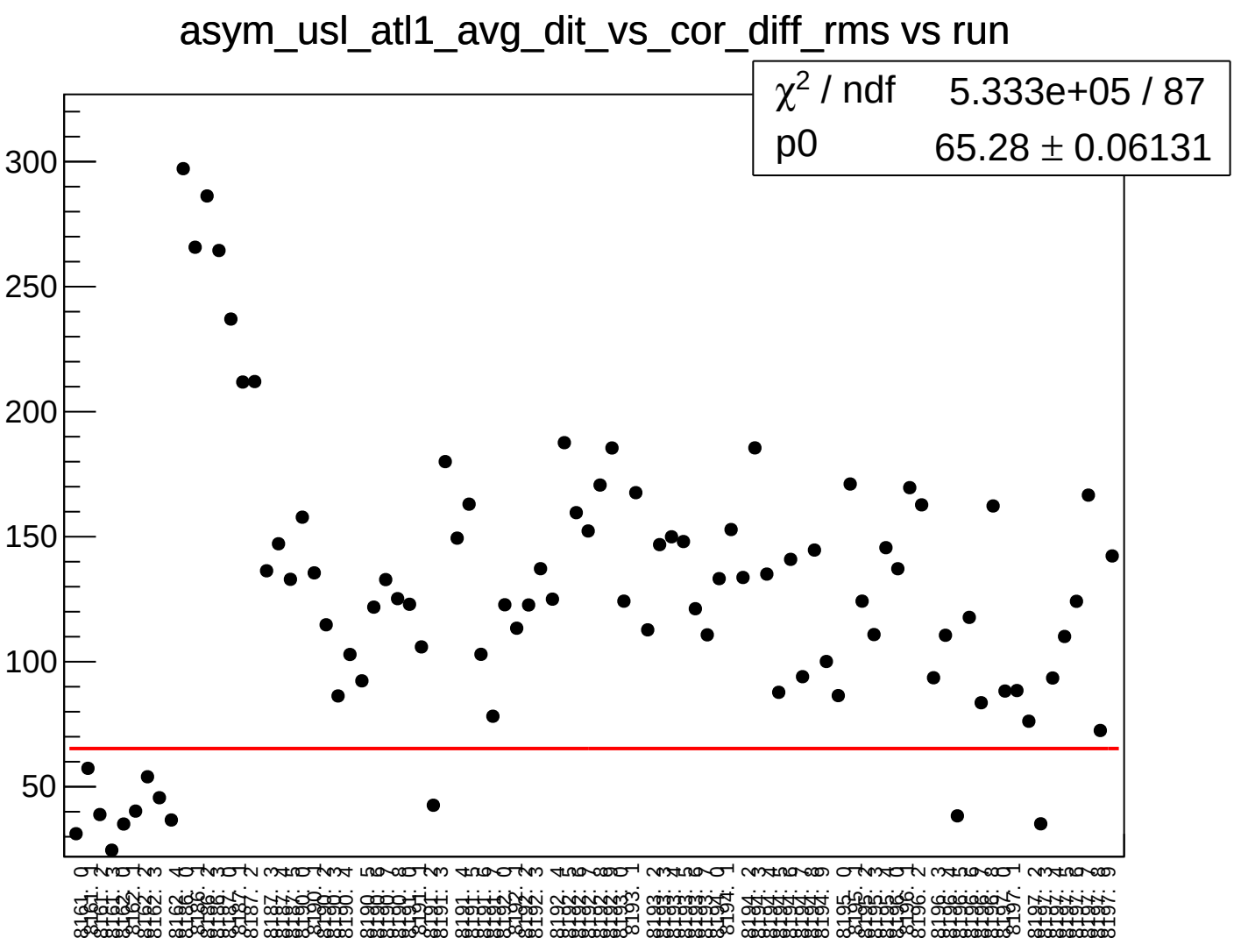

asym_usl_atl1_avg_rms vs run
χ² / ndf 626.3 / 87
p0 1561 ± 1.209
1650
1600
1550
1500
1450

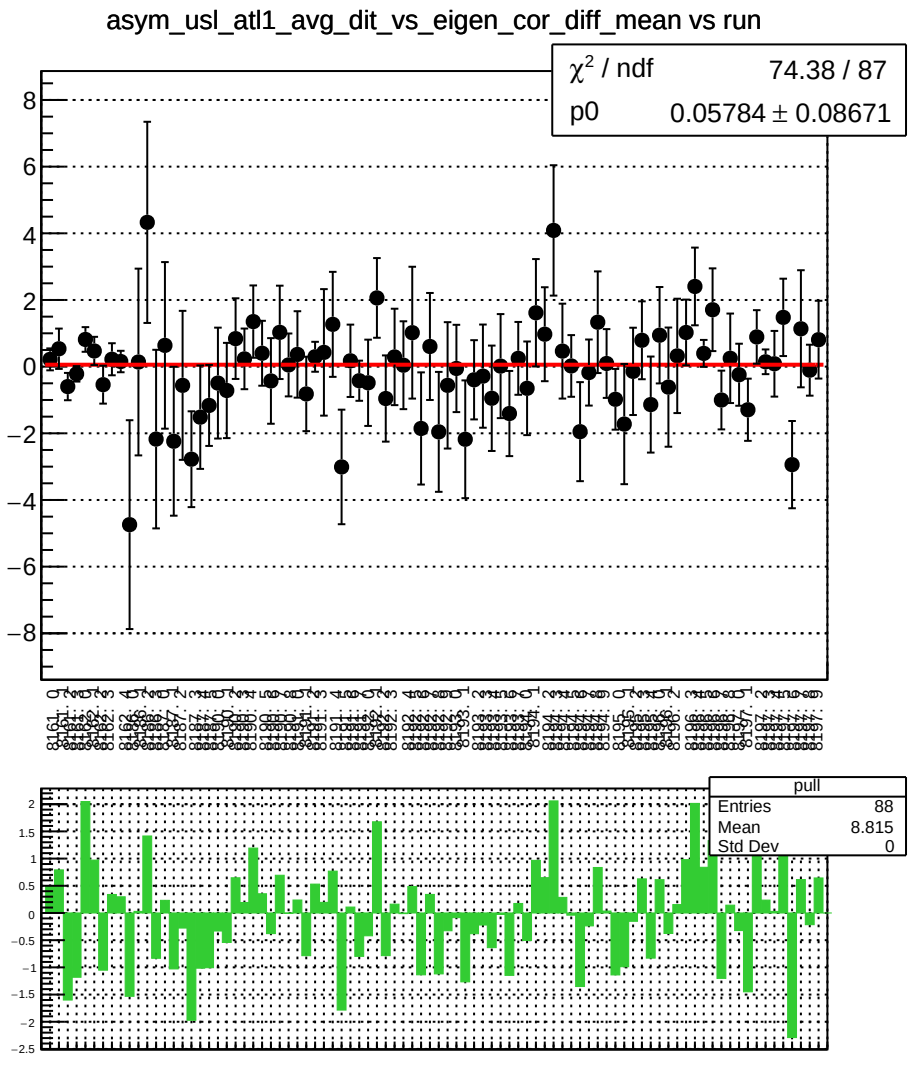

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.01 / 87
p0 1.997e−14 ± 7.299e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 928.2
Std Dev 0
pull1D
Entries 88
Mean 0.005022
Std Dev 0.9712

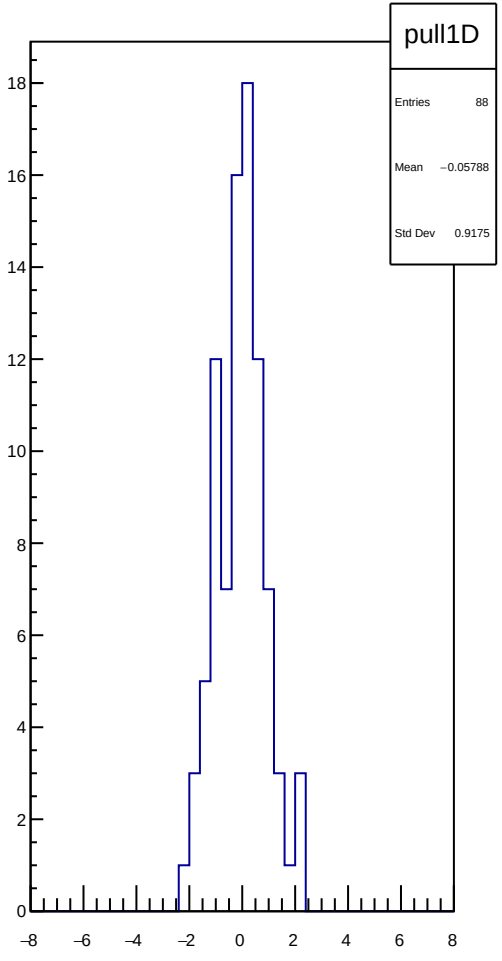

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.415e+05 / 87
p0 4.689e−11 ± 5.161e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

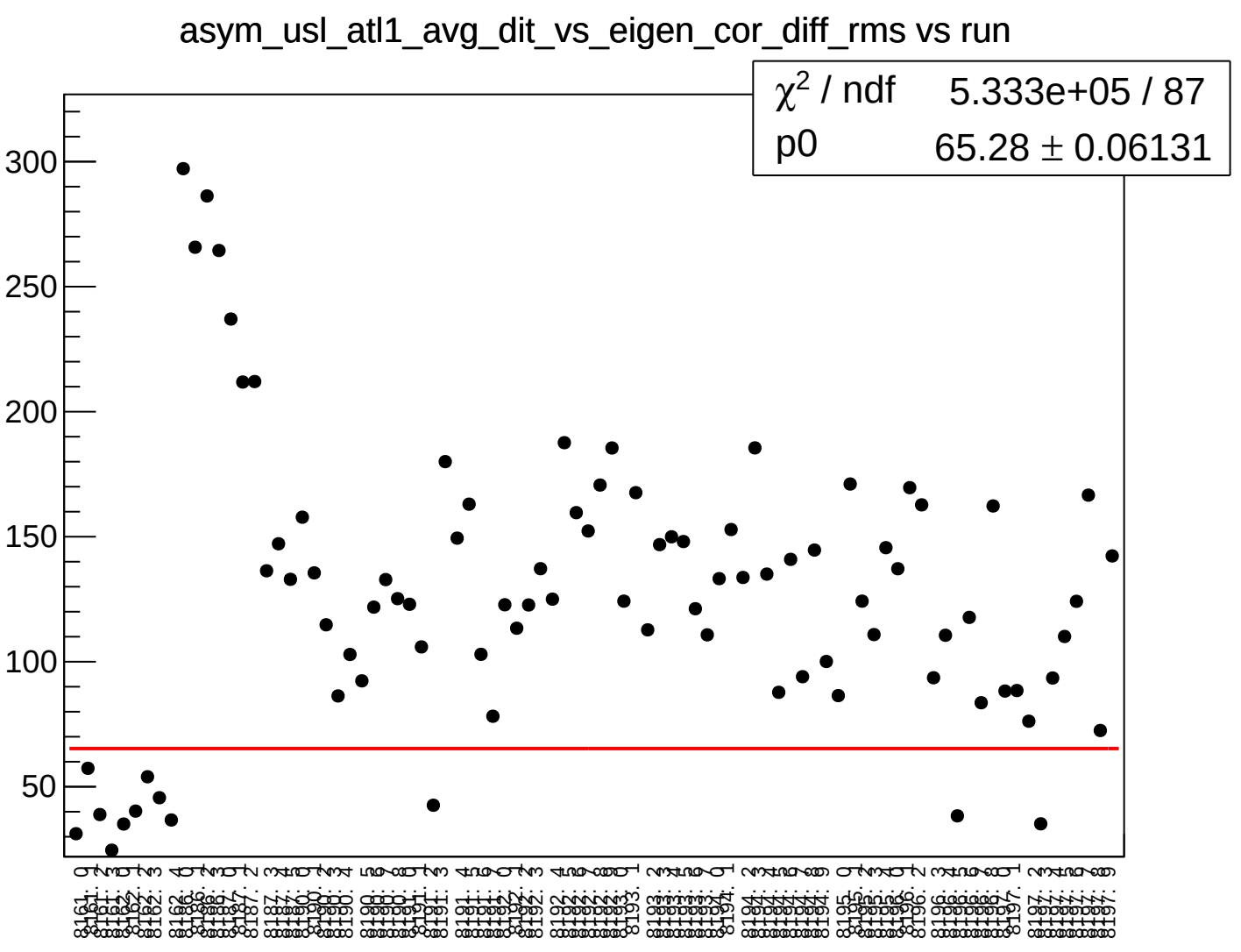

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.38 / 87
p0 0.05784 ± 0.08671
pull
Entries 88
Mean 8.815
Std Dev 0

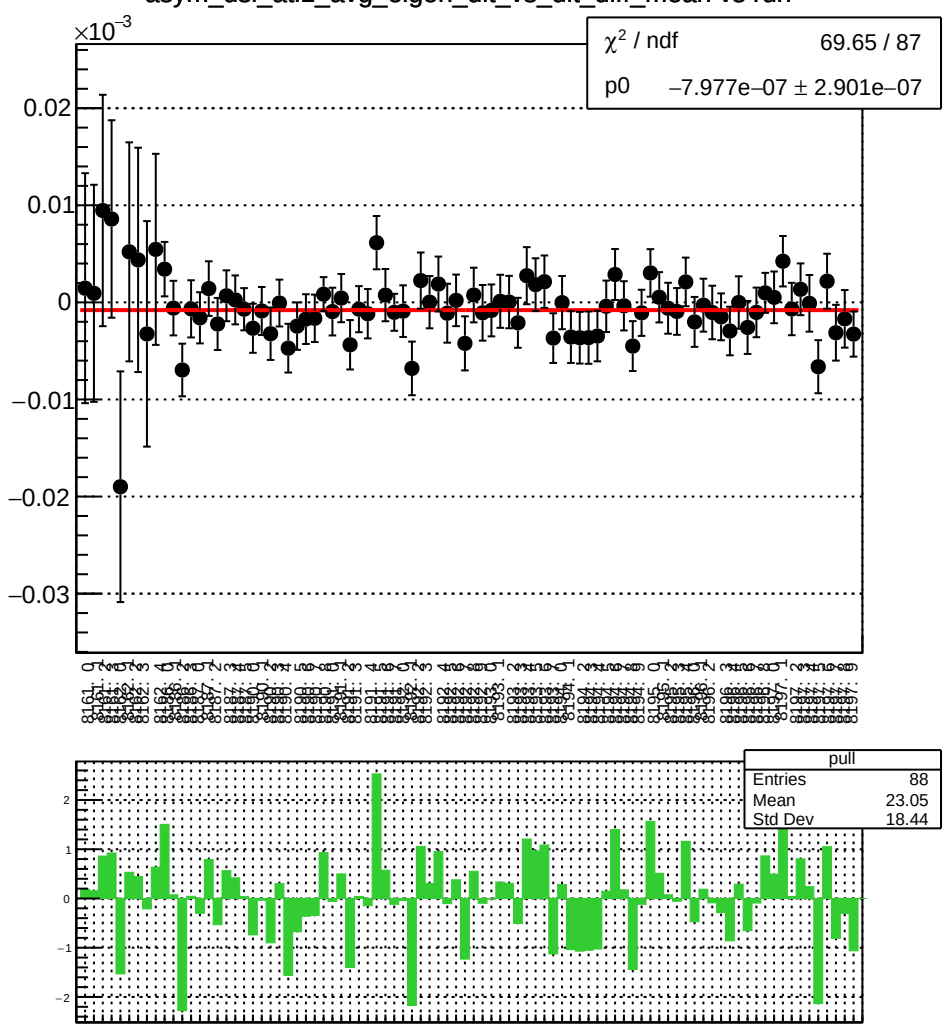

pull1D
Entries 88
Mean −0.05788
Std Dev 0.9175

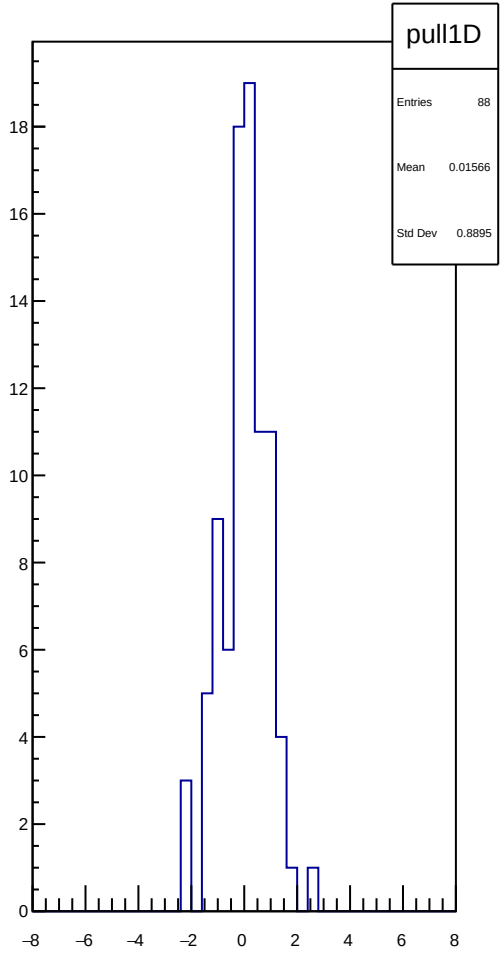

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.333e+05 / 87
p0 65.28 ± 0.06131
300
250
200
150
100
50

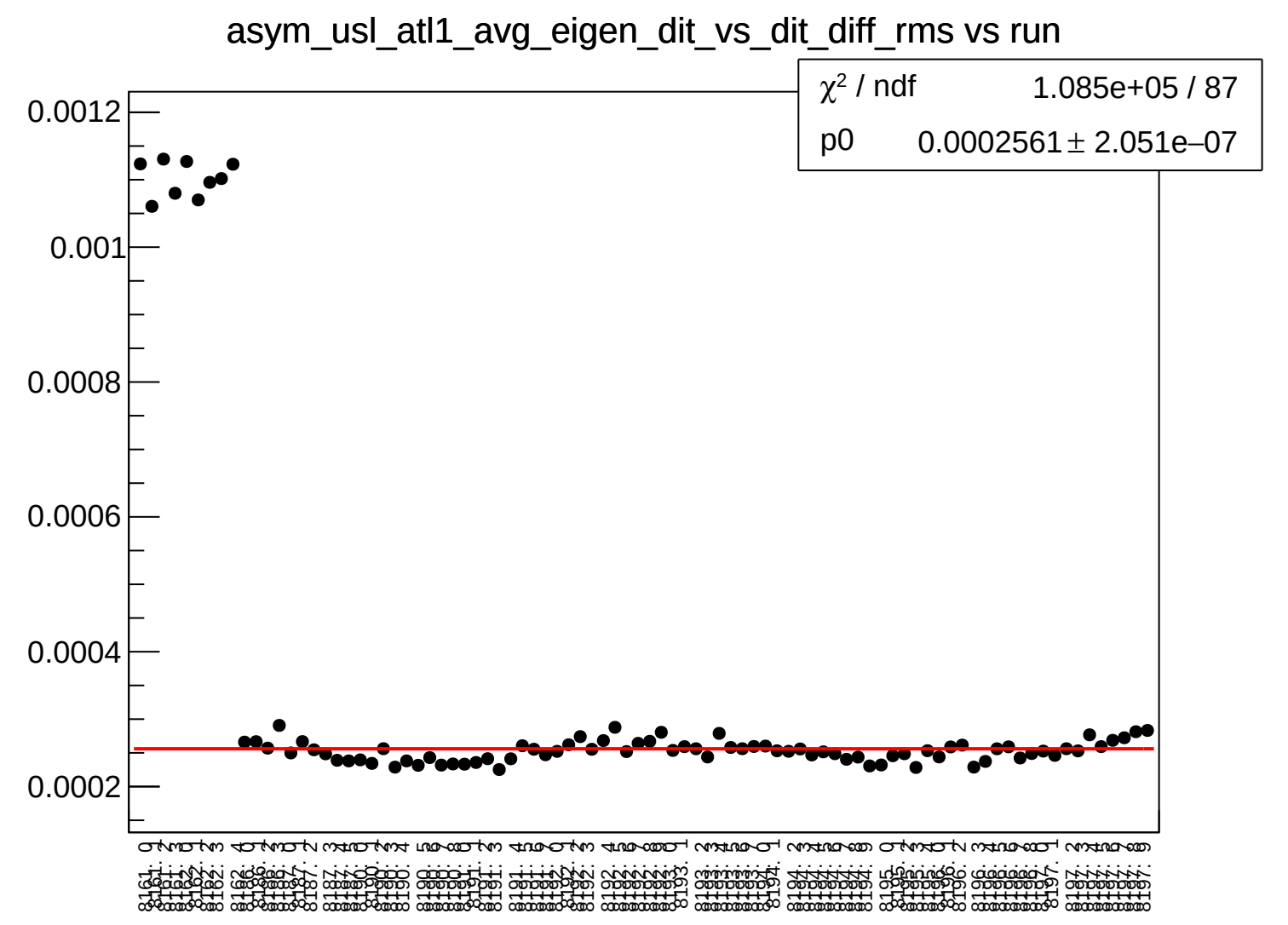

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.38 / 87
p0 0.05784 ± 0.08671
pull
Entries 88
Mean 8.815
Std Dev 0

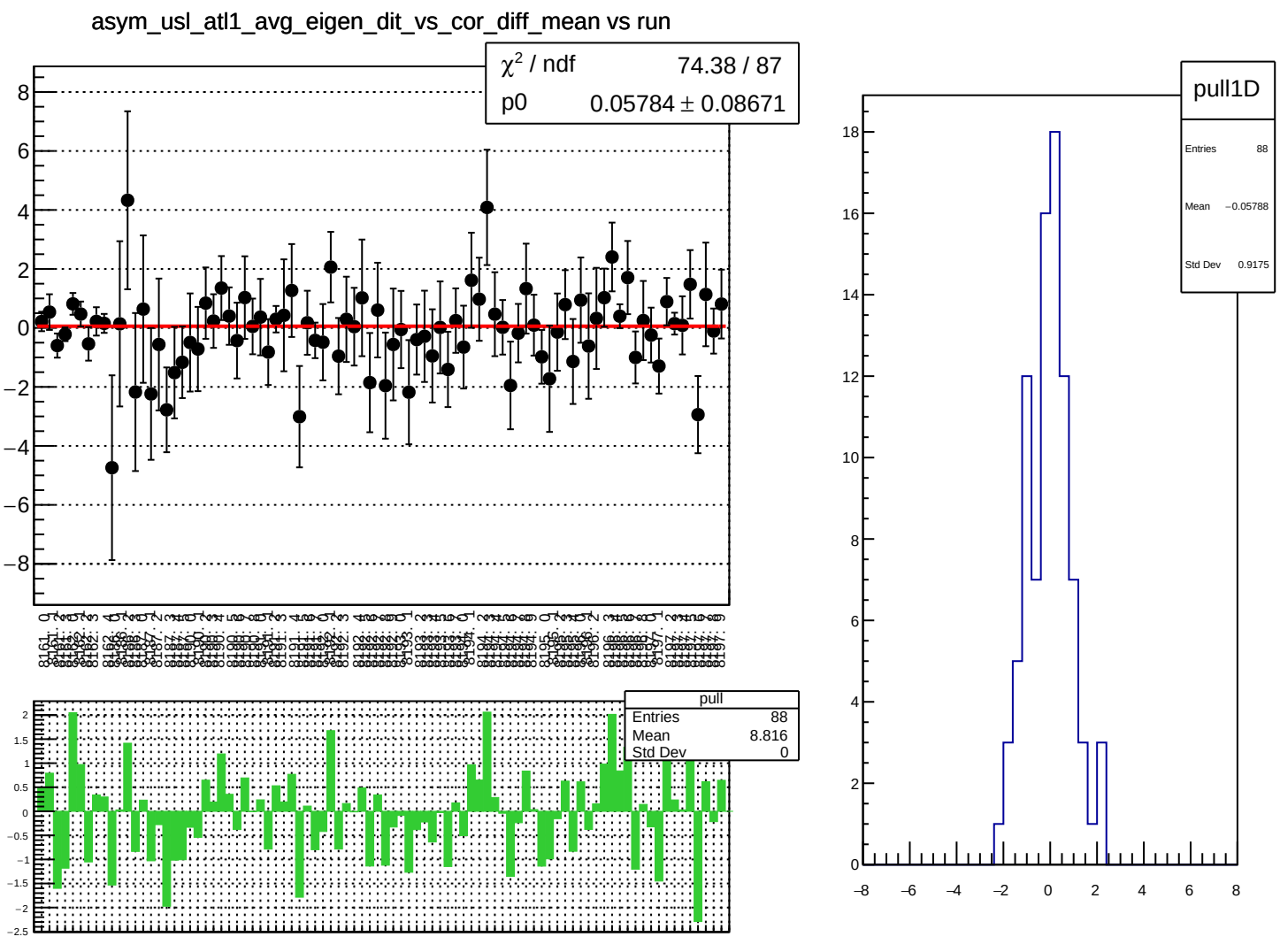

pull1D
Entries 88
Mean −0.05788
Std Dev 0.9175

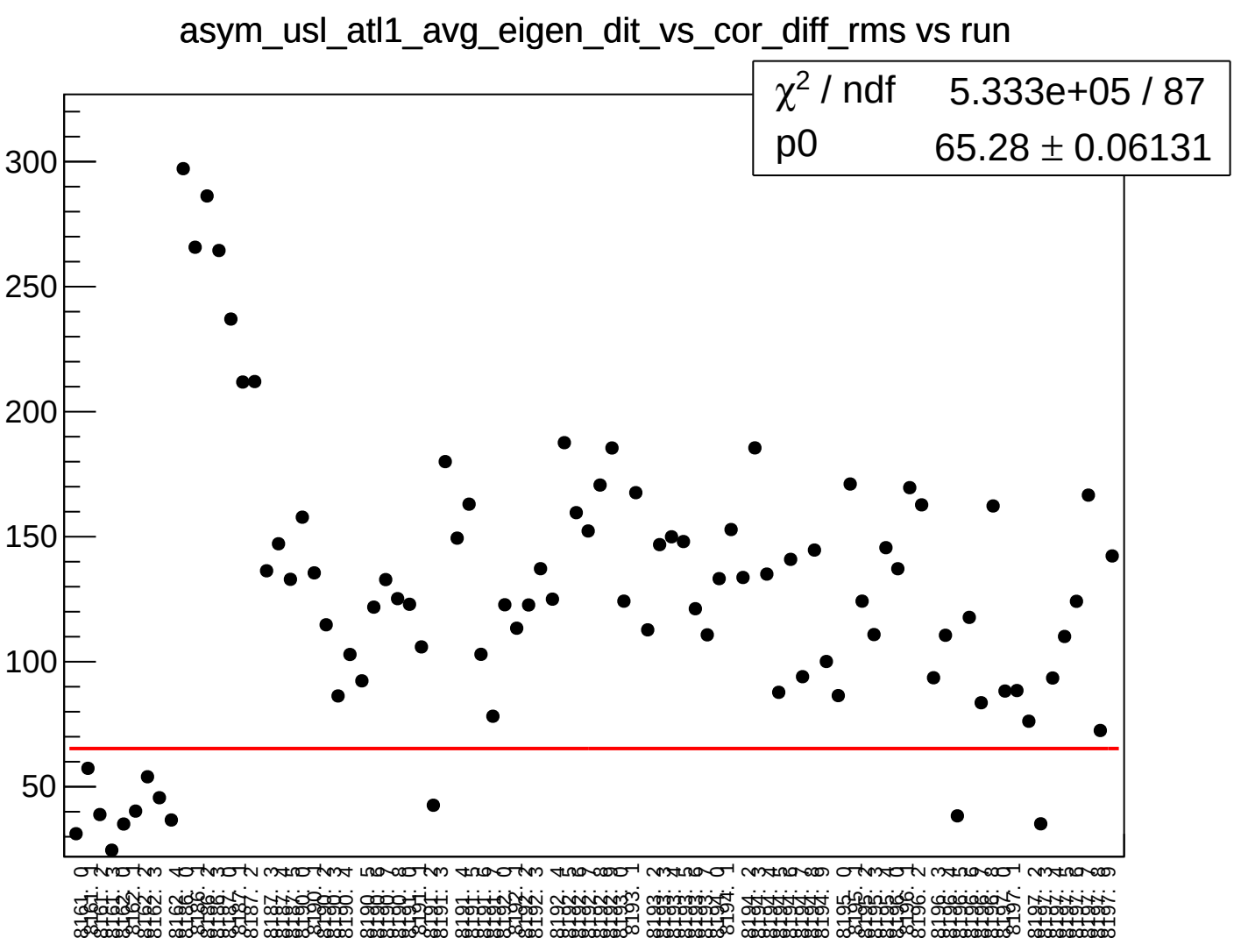

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.333e+05 / 87
p0 65.28 ± 0.06131
300
250
200
150
100
50

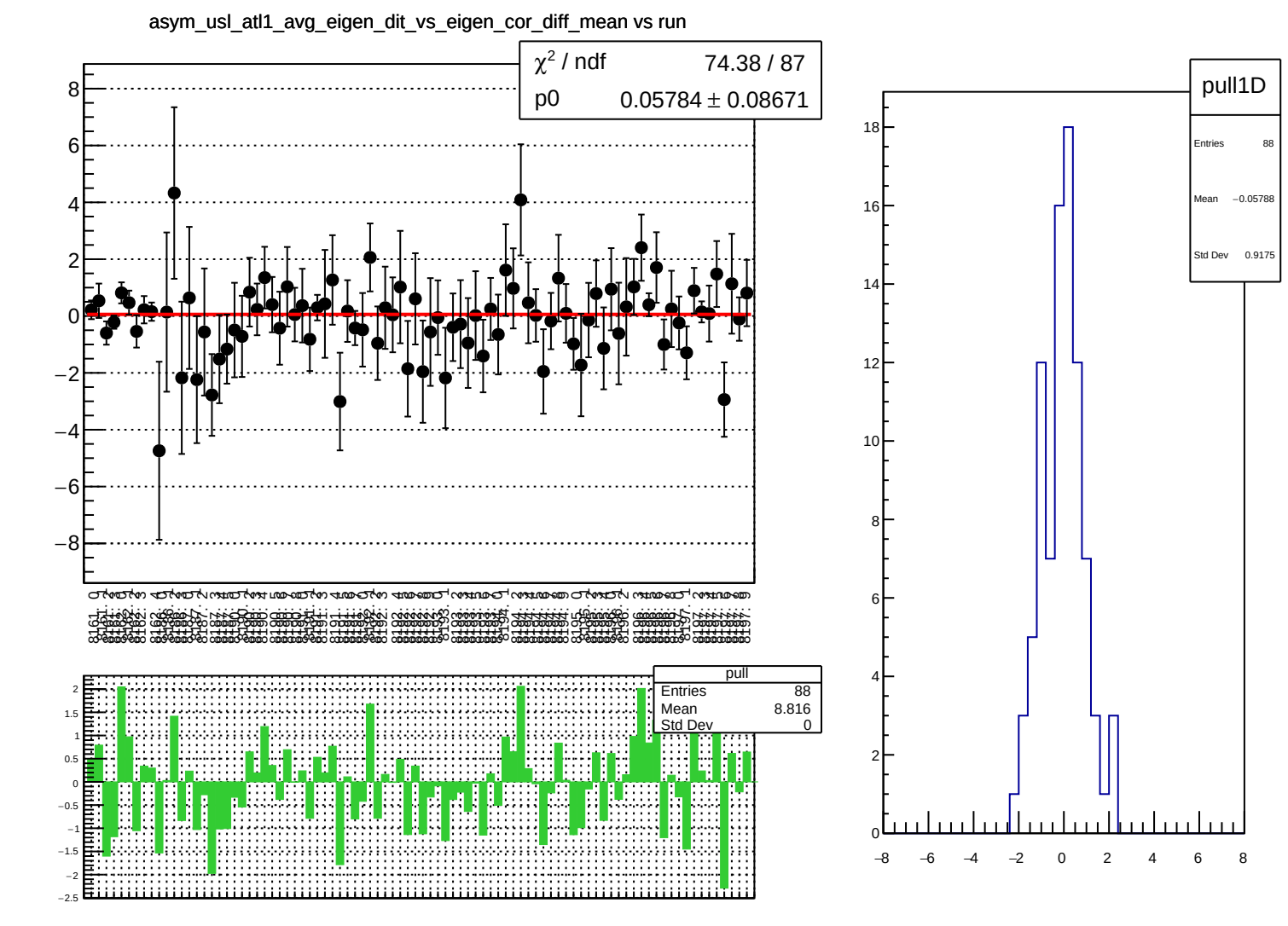

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.65 / 87
p0 −7.977e−07 ± 2.901e−07
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 23.05
Std Dev 18.44
2
1
0
−1
−2

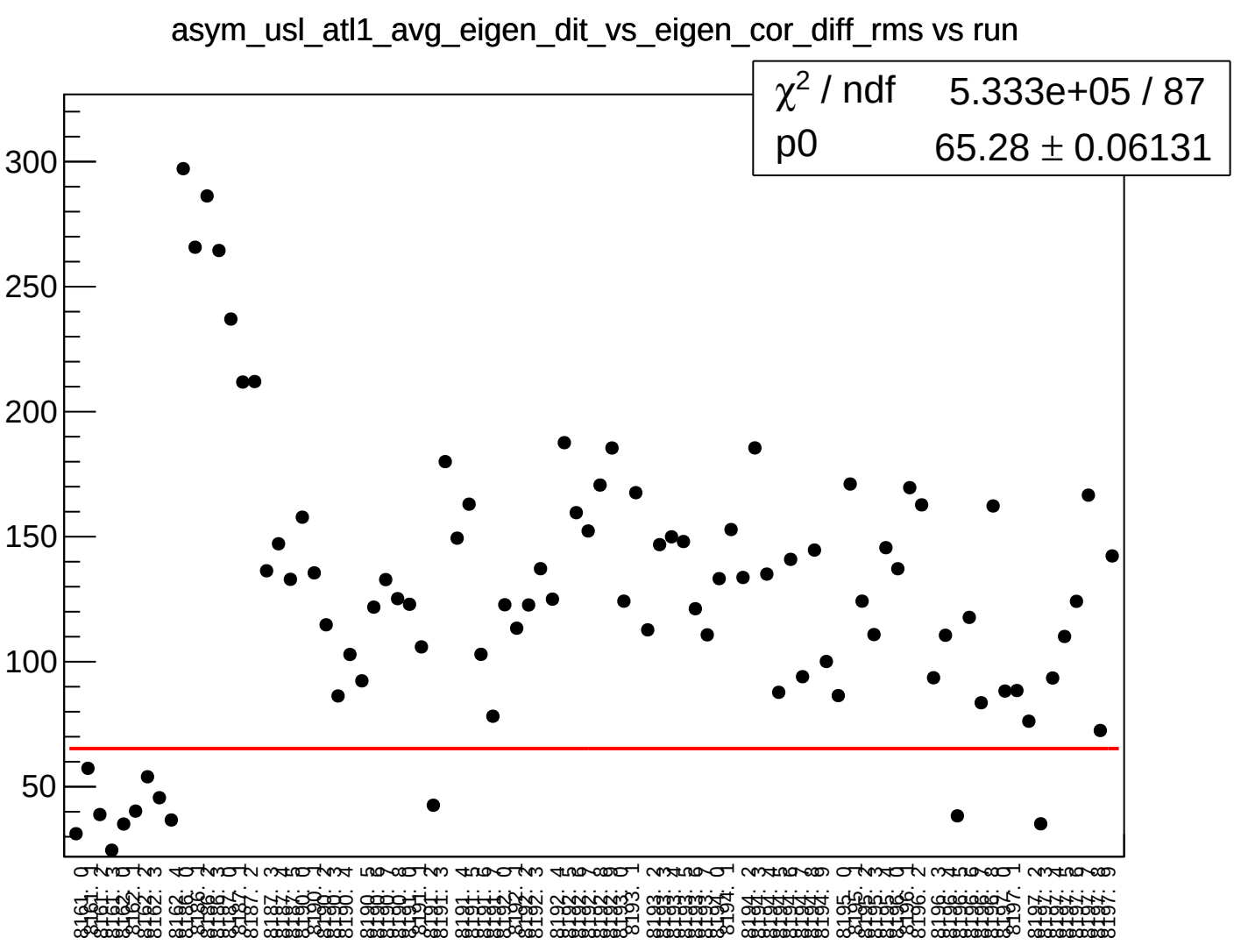

pull1D
Entries 88
Mean 0.01566
Std Dev 0.8895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

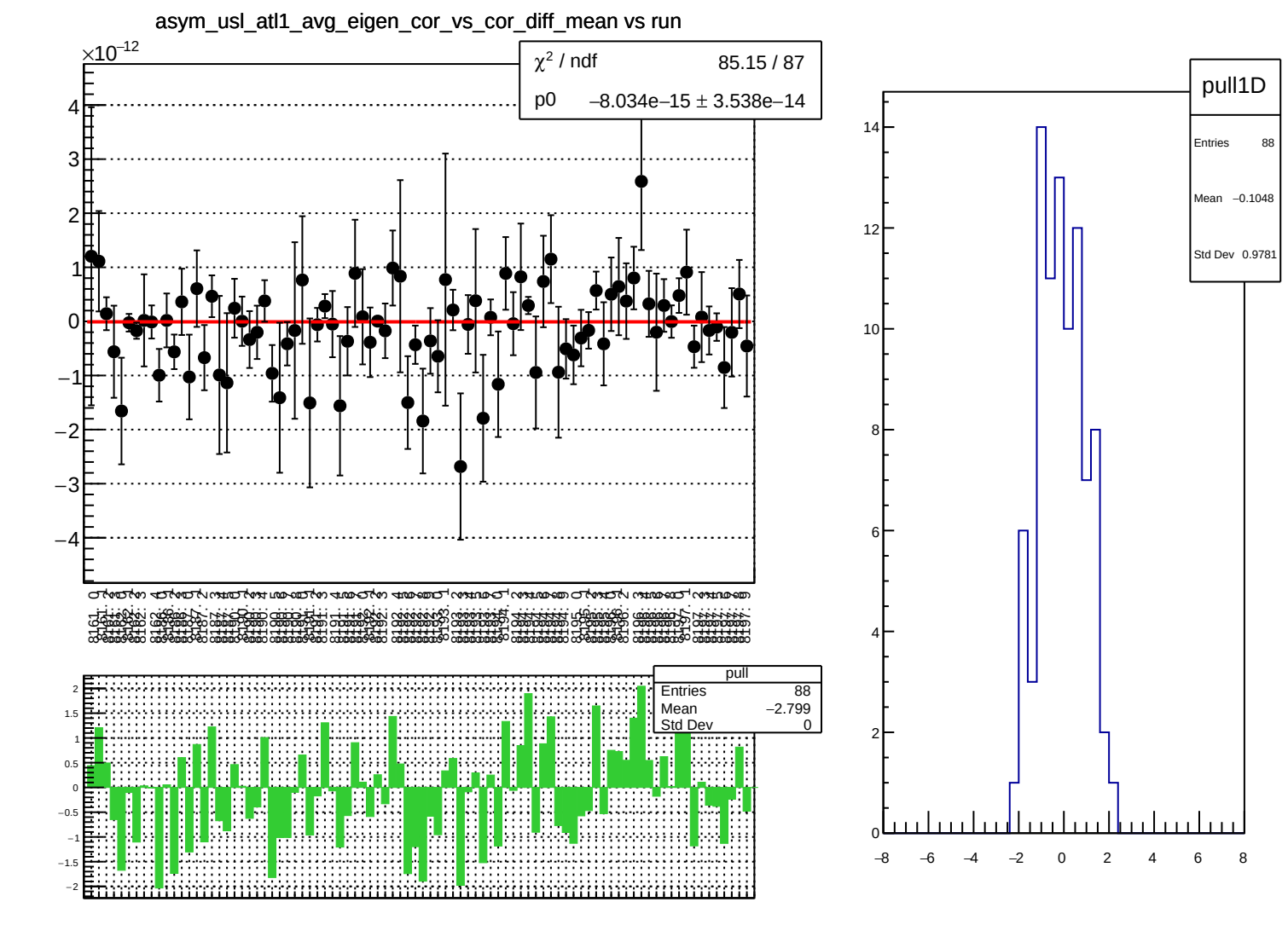

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.085e+05 / 87
p0 0.0002561 ± 2.051e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

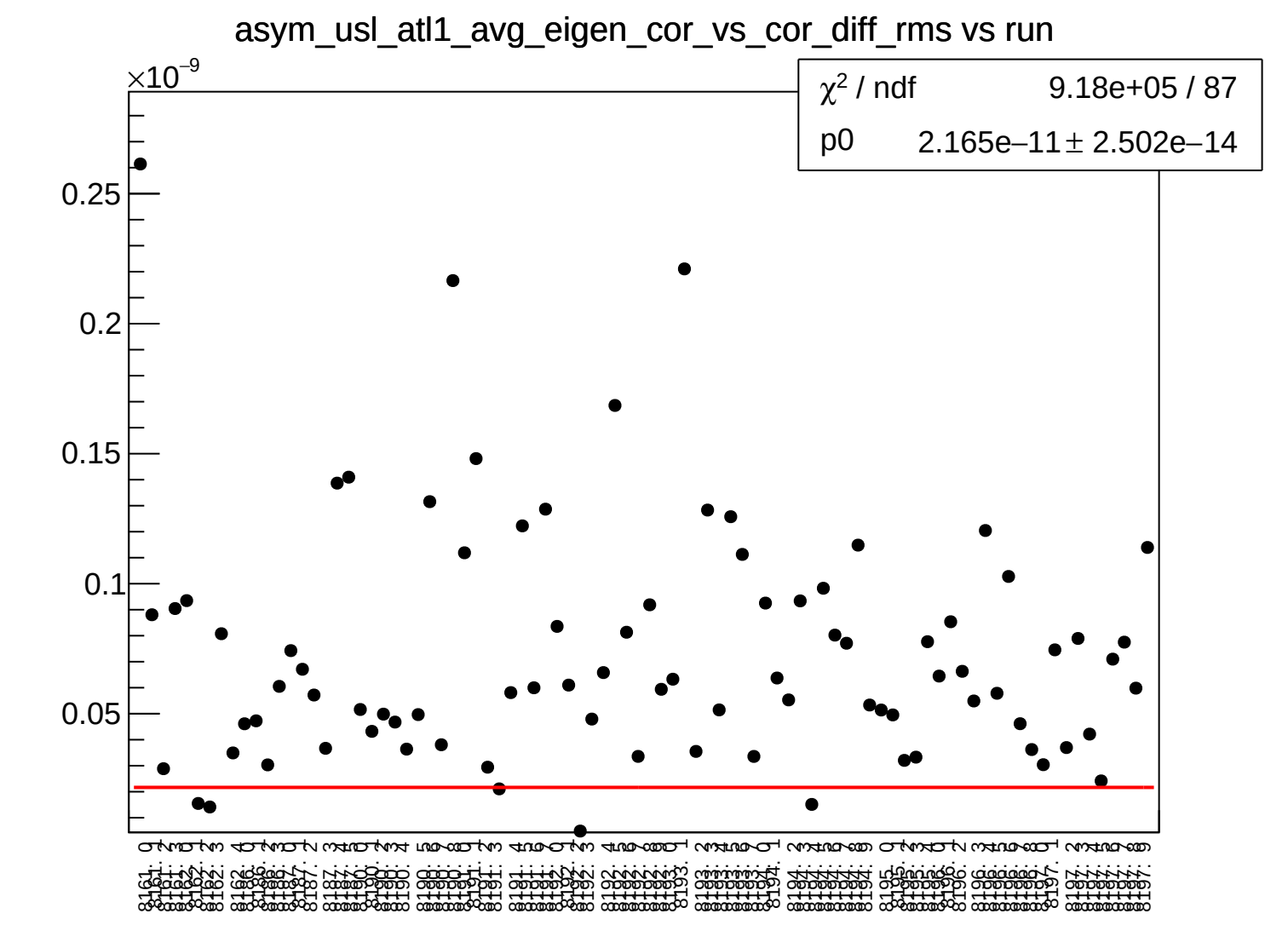

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.38 / 87
p0 0.05784 ± 0.08671
pull
Entries 88
Mean 8.816
Std Dev 0
pull1D
Entries 88
Mean −0.05788
Std Dev 0.9175

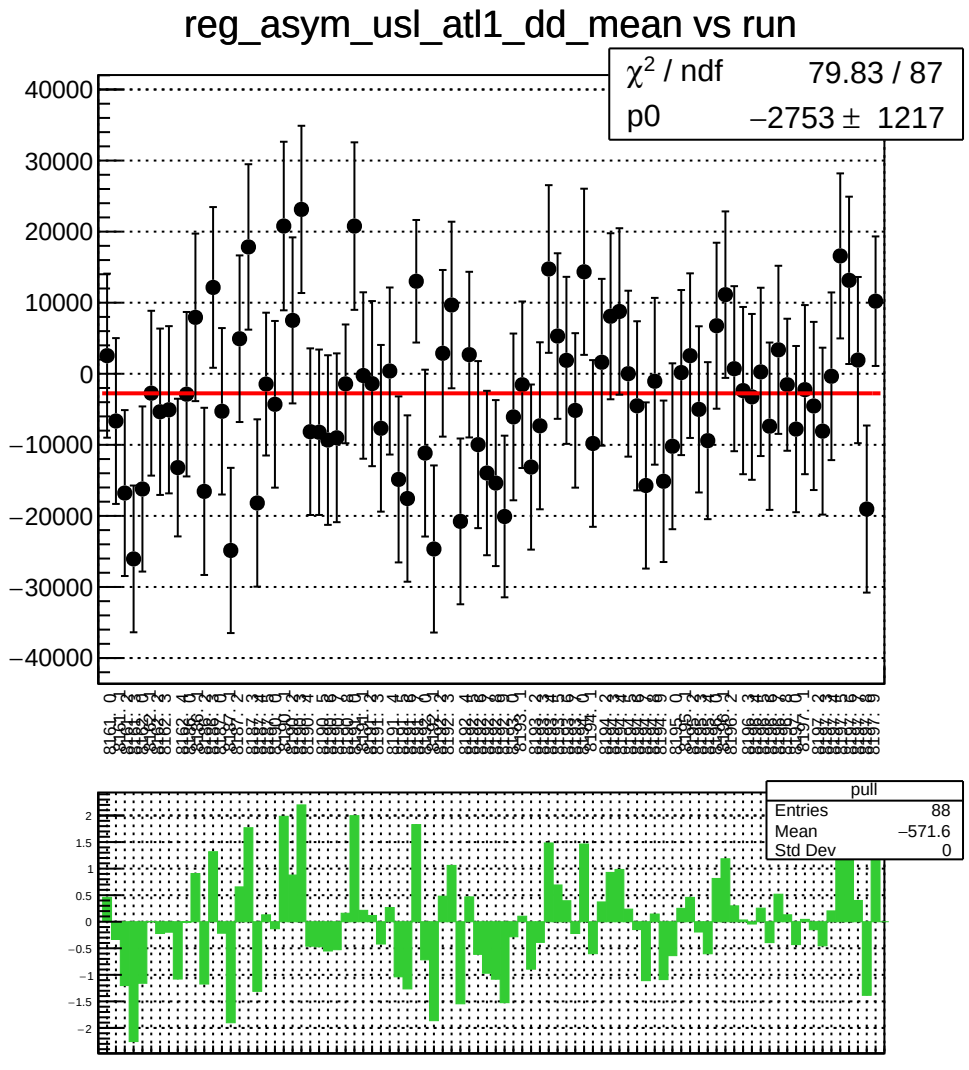

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.333e+05 / 87
p0 65.28 ± 0.06131
300
250
200
150
100
50

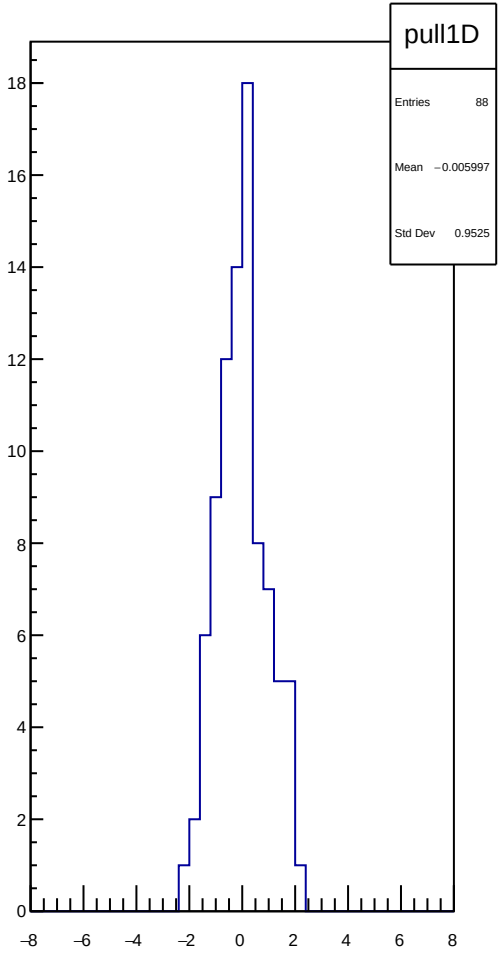

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.38 / 87
p0 0.05784 ± 0.08671
pull
Entries 88
Mean 8.816
Std Dev 0
pull1D
Entries 88
Mean −0.05788
Std Dev 0.9175


asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.333e+05 / 87
p0 65.28 ± 0.06131
300
250
200
150
100
50

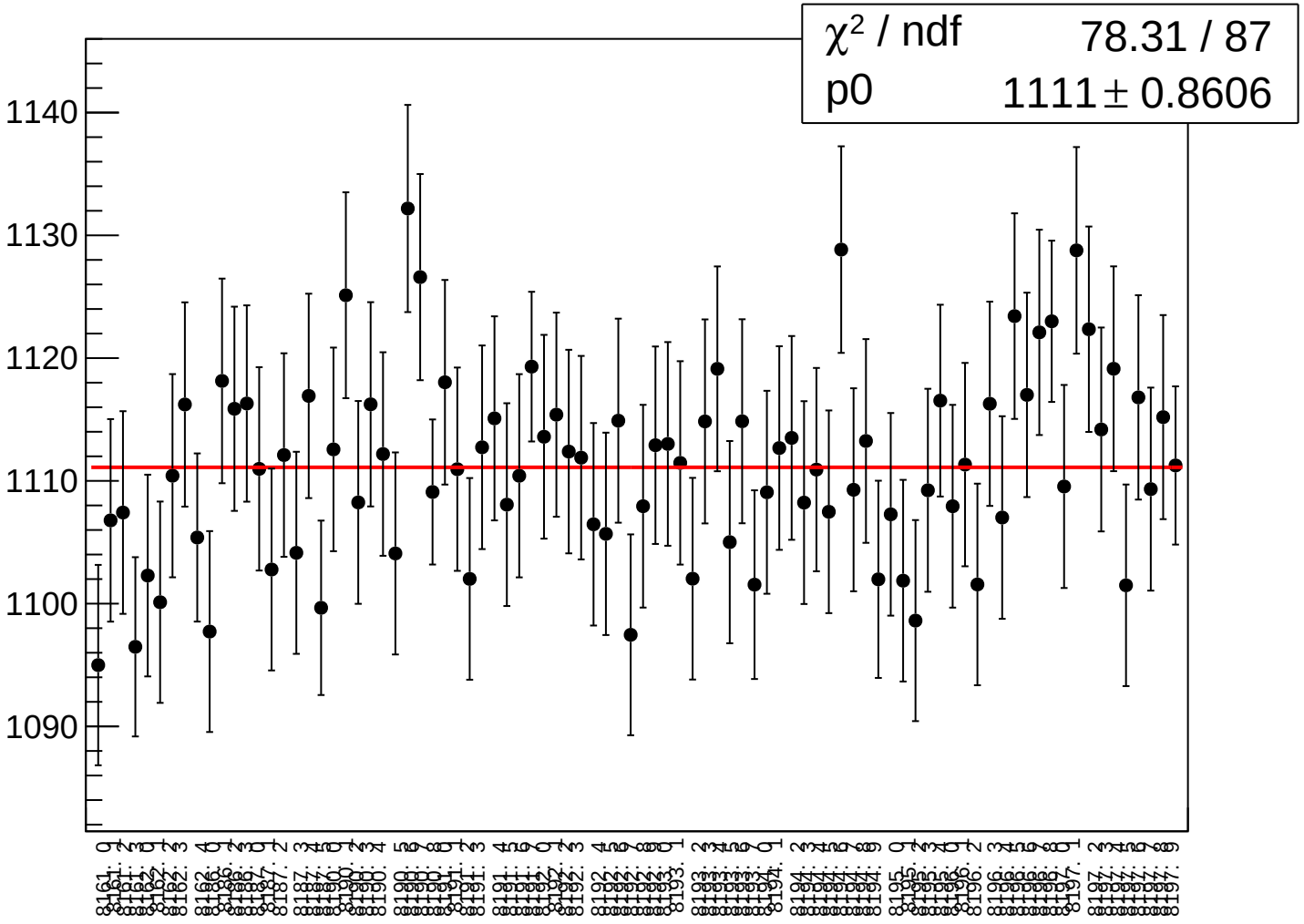

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 85.15 / 87
p0 −8.034e−15 ± 3.538e−14
pull
Entries 88
Mean −2.799
Std Dev 0
pull1D
Entries 88
Mean −0.1048
Std Dev 0.9781

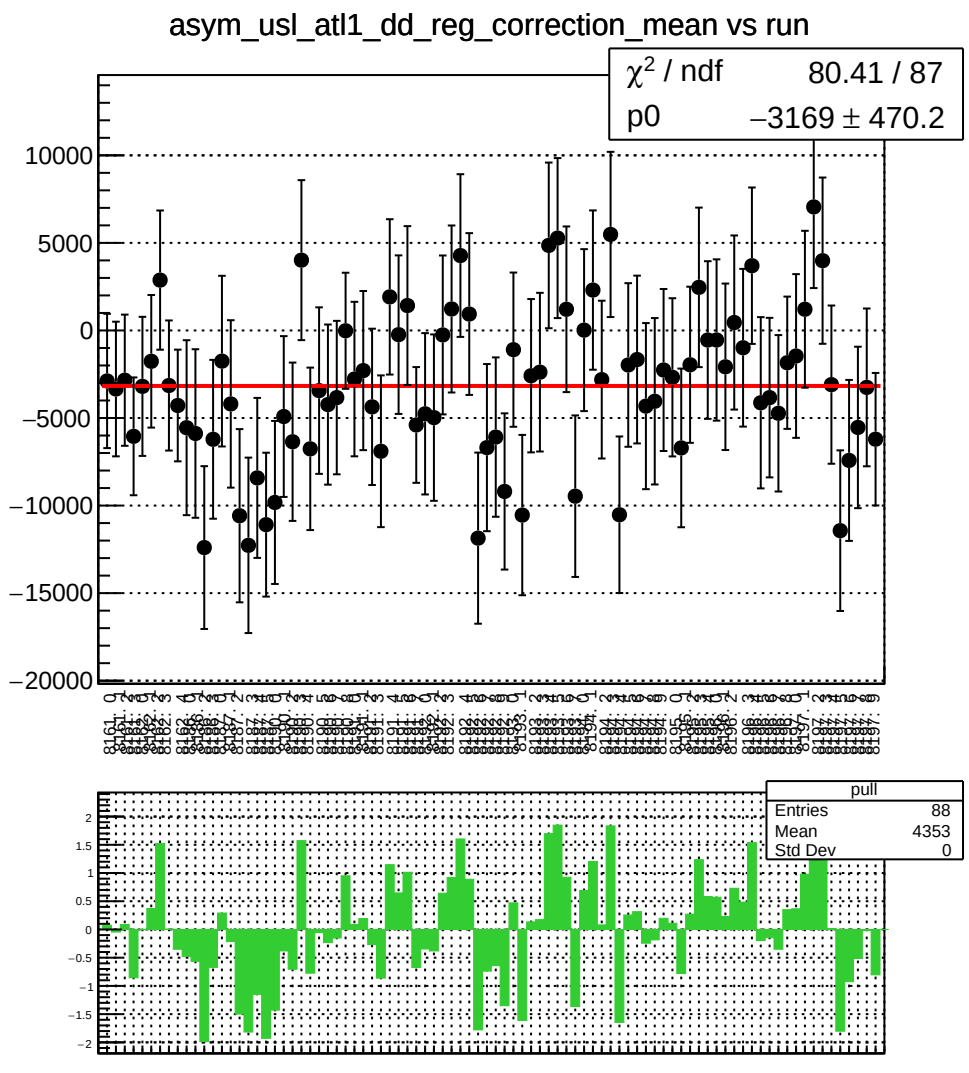

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.18e+05 / 87
p0 2.165e−11 ± 2.502e−14
0.25
0.2
0.15
0.1
0.05

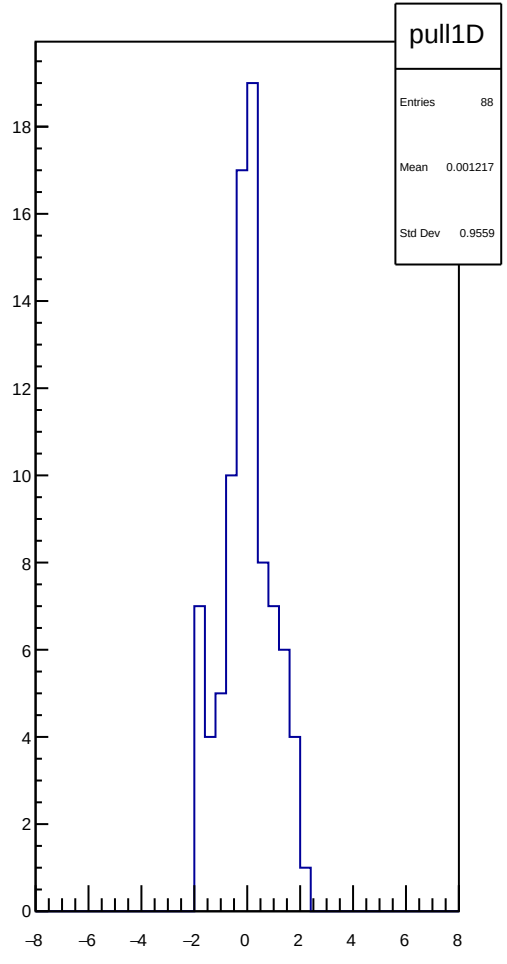

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.83 / 87
p0 −2753 ± 1217
pull
Entries 88
Mean −571.6
Std Dev 0

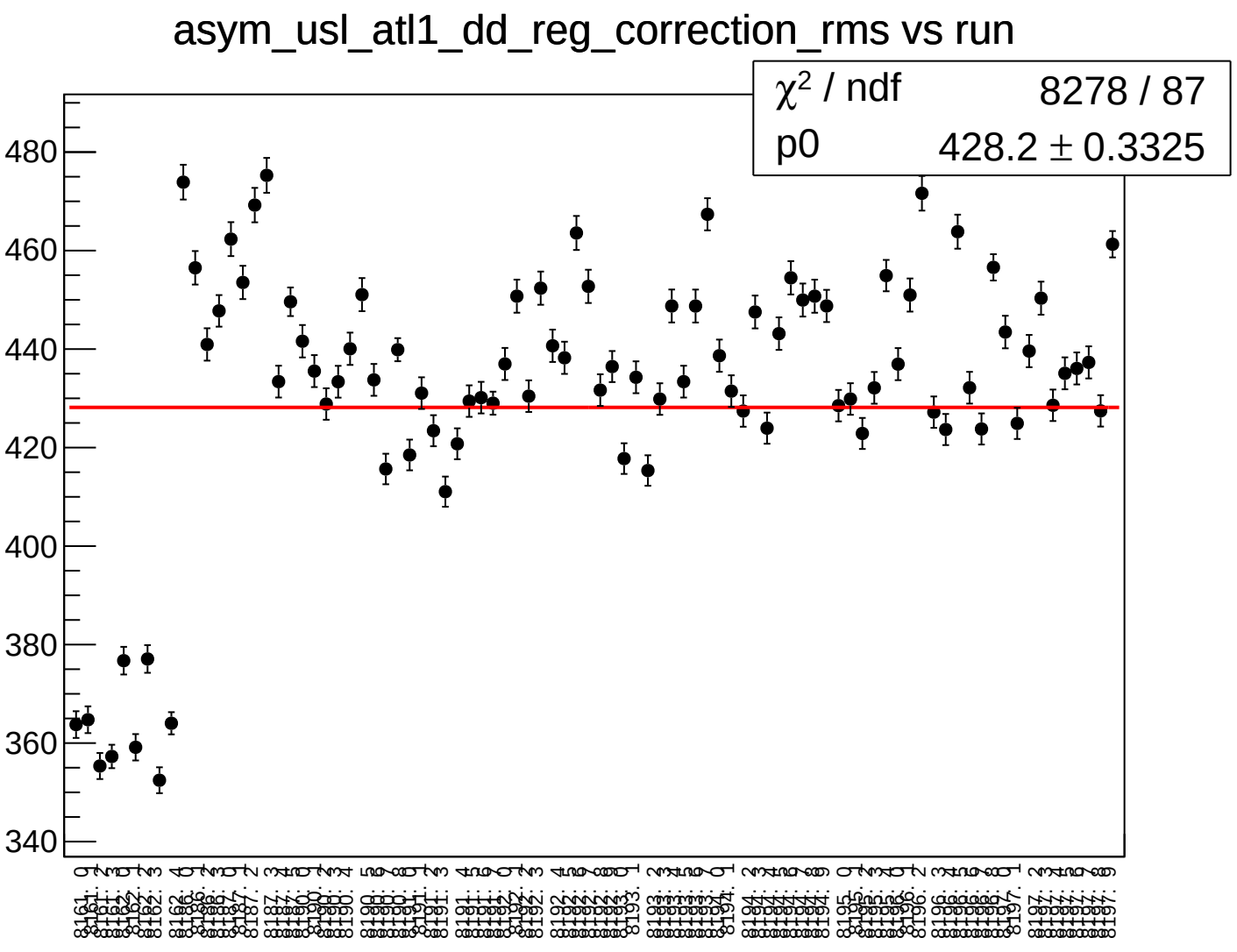

pull1D
Entries 88
Mean −0.005997
Std Dev 0.9525

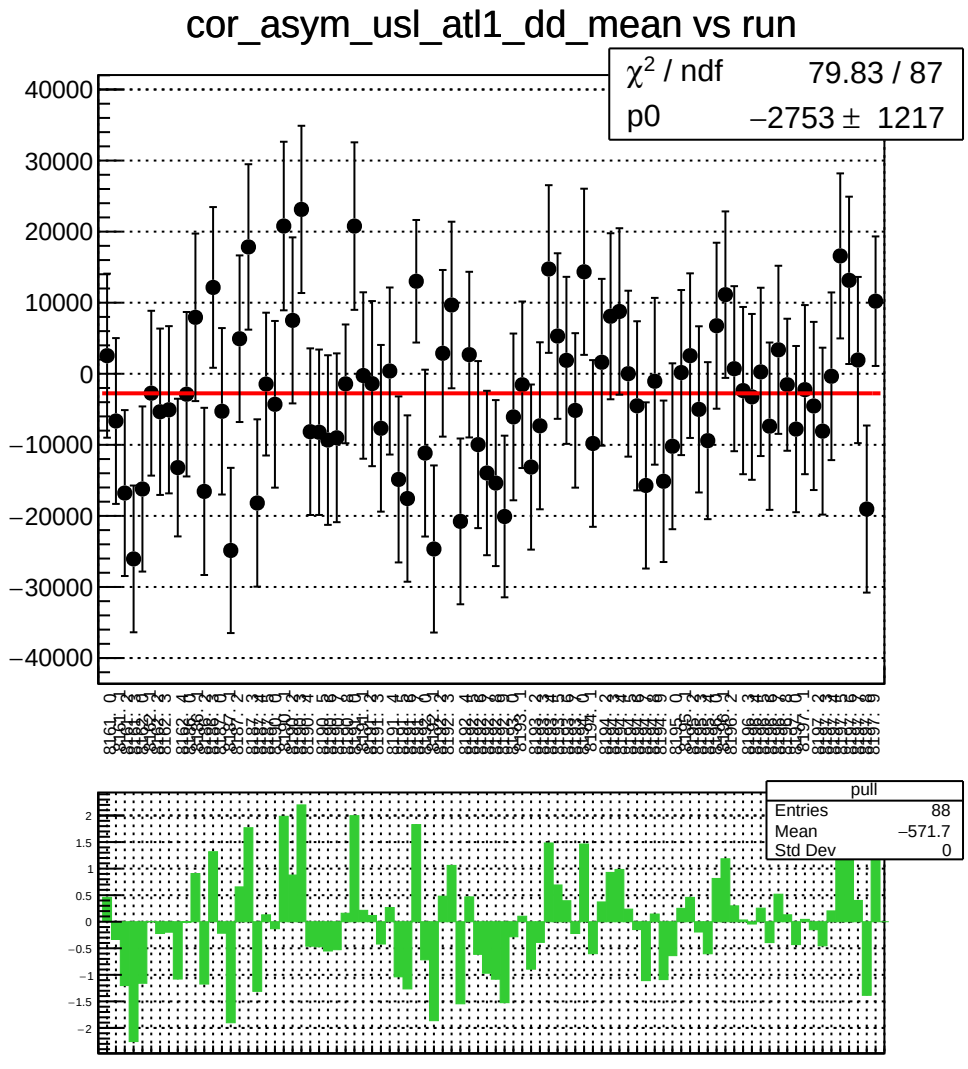
reg_asym_usl_atl1_dd_rms vs run

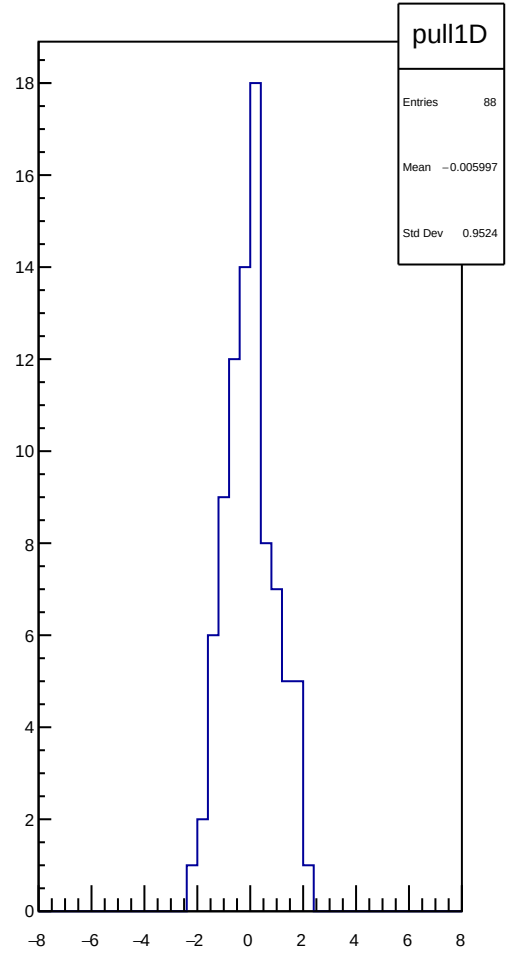


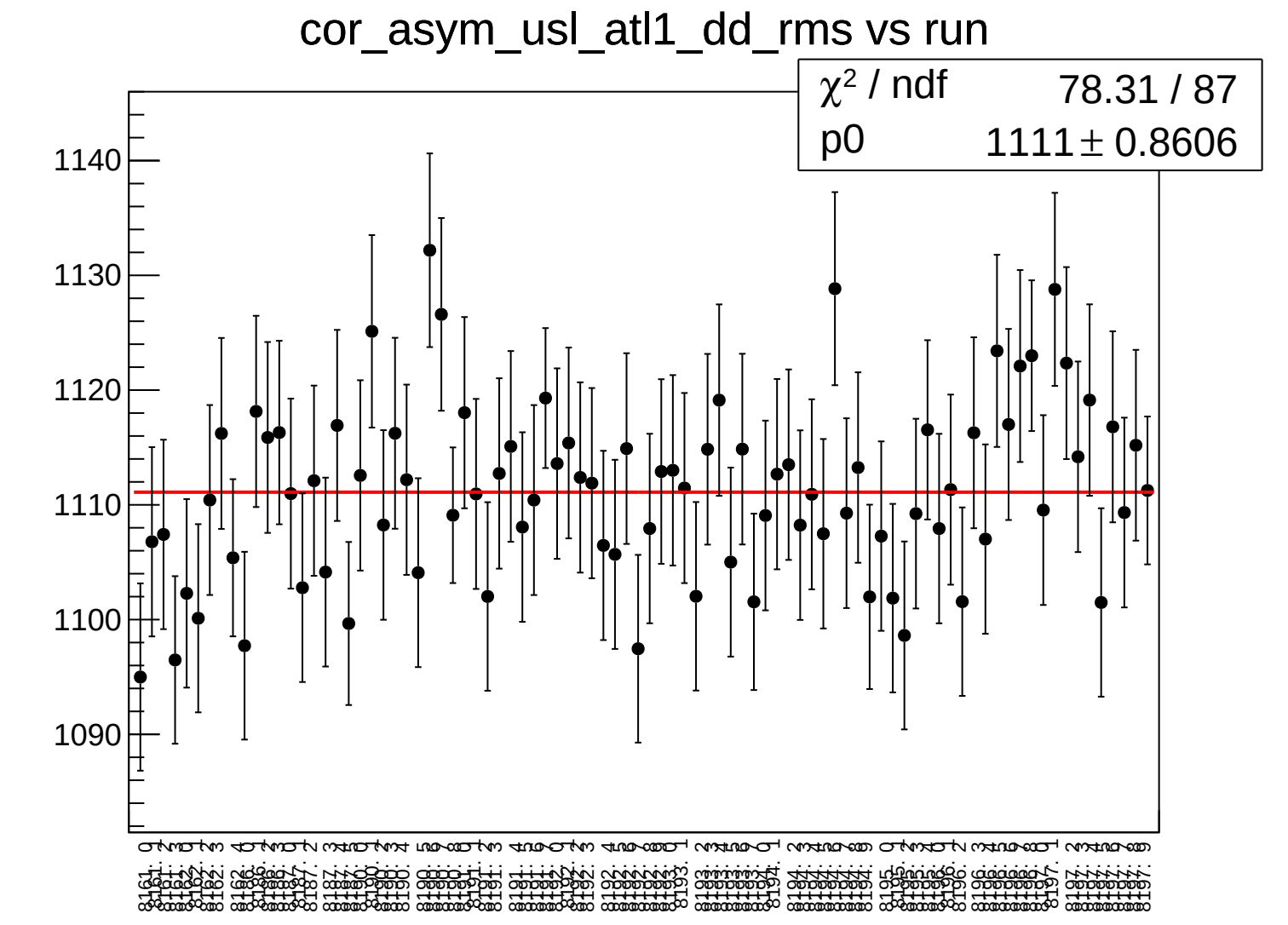

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 80.41 / 87
p0 −3169 ± 470.2
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 4353
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

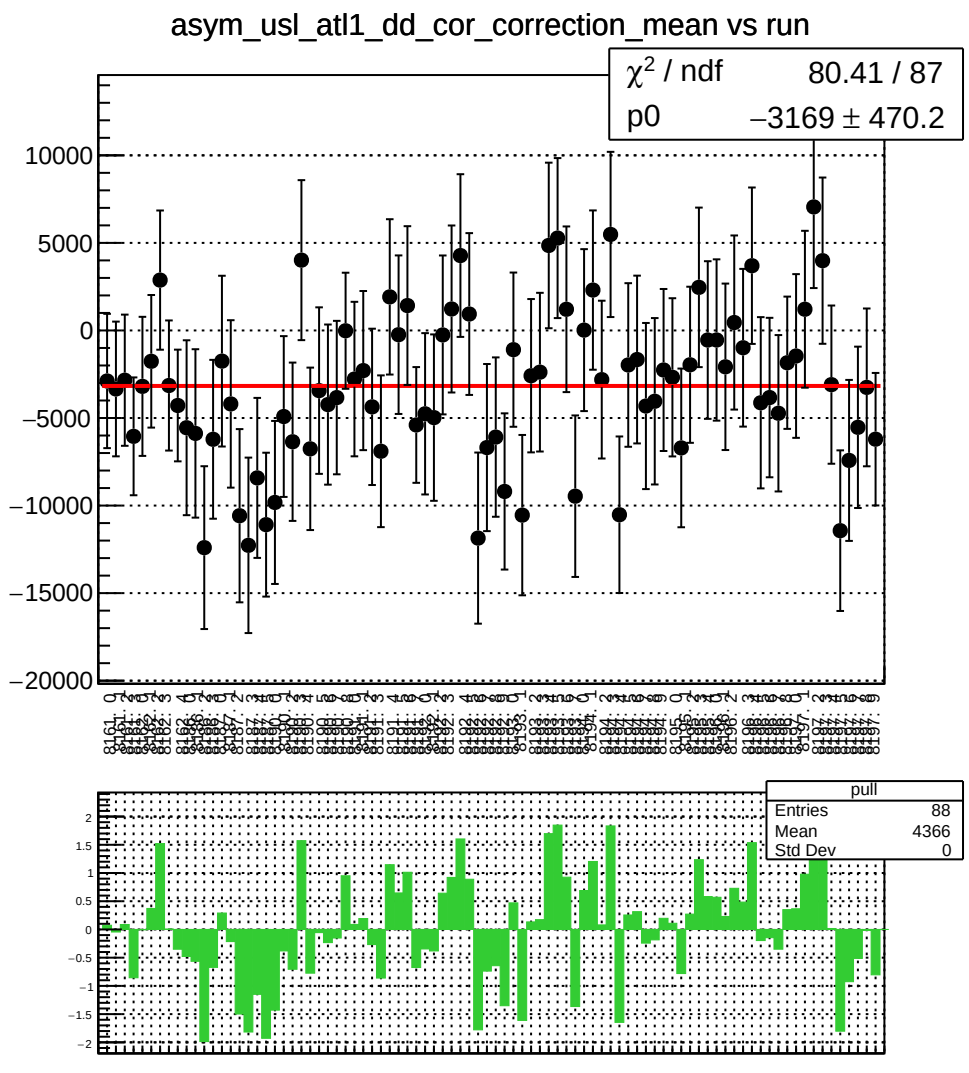

pull1D
Entries 88
Mean 0.001217
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

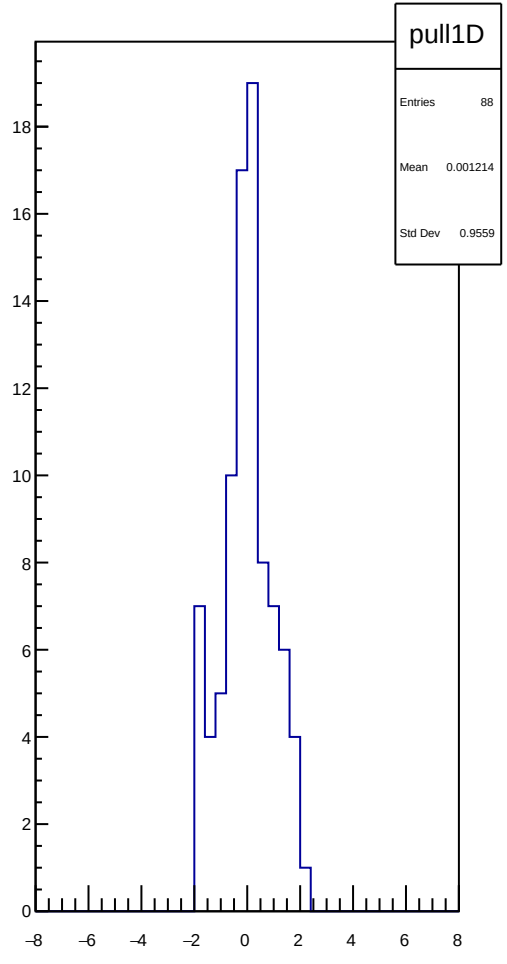

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 8278 / 87
p0 428.2 ± 0.3325
480
460
440
420
400
380
360
340

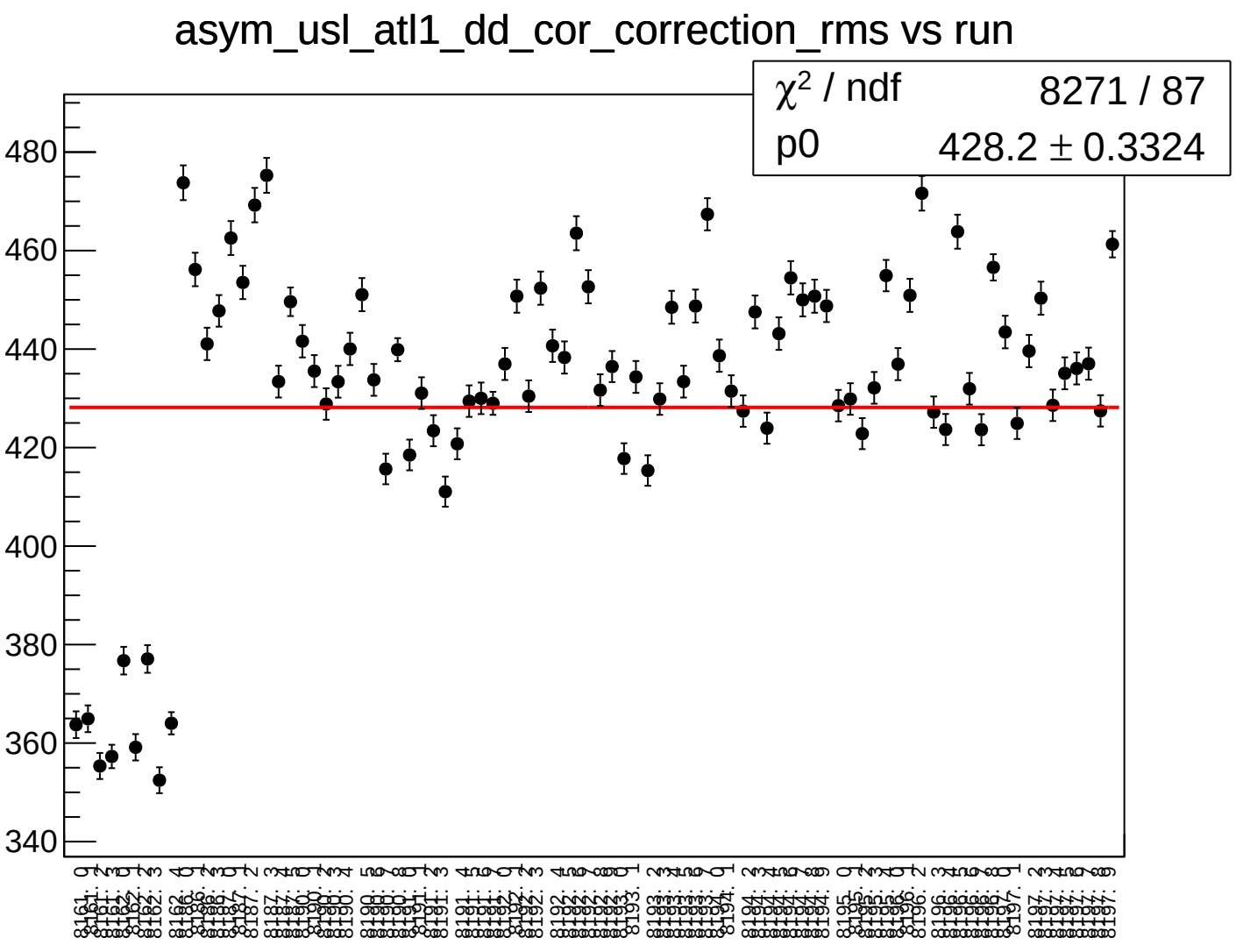

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.83 / 87
p0 −2753 ± 1217
pull
Entries 88
Mean −571.7
Std Dev 0

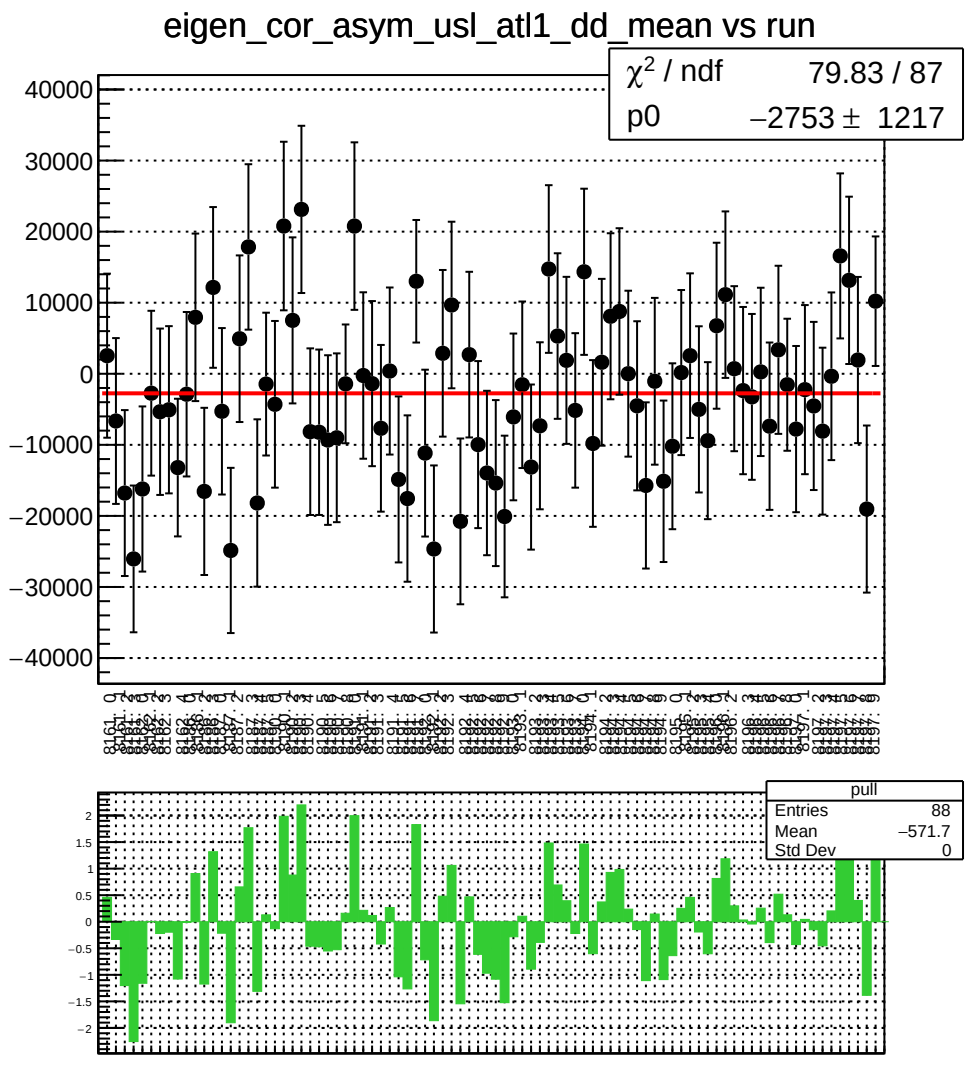

pull1D
Entries 88
Mean −0.005997
Std Dev 0.9524

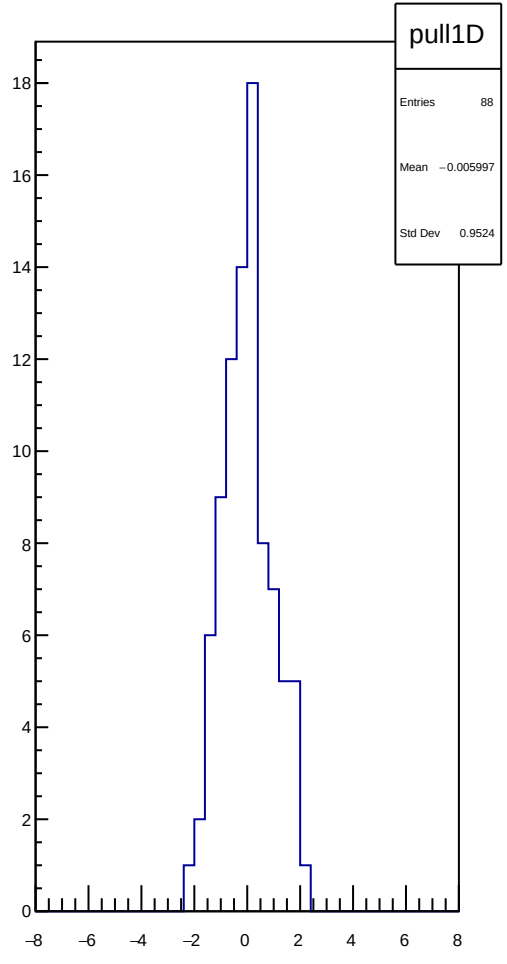

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 78.31 / 87
p0 1111 ± 0.8606
1140
1130
1120
1110
1100
1090

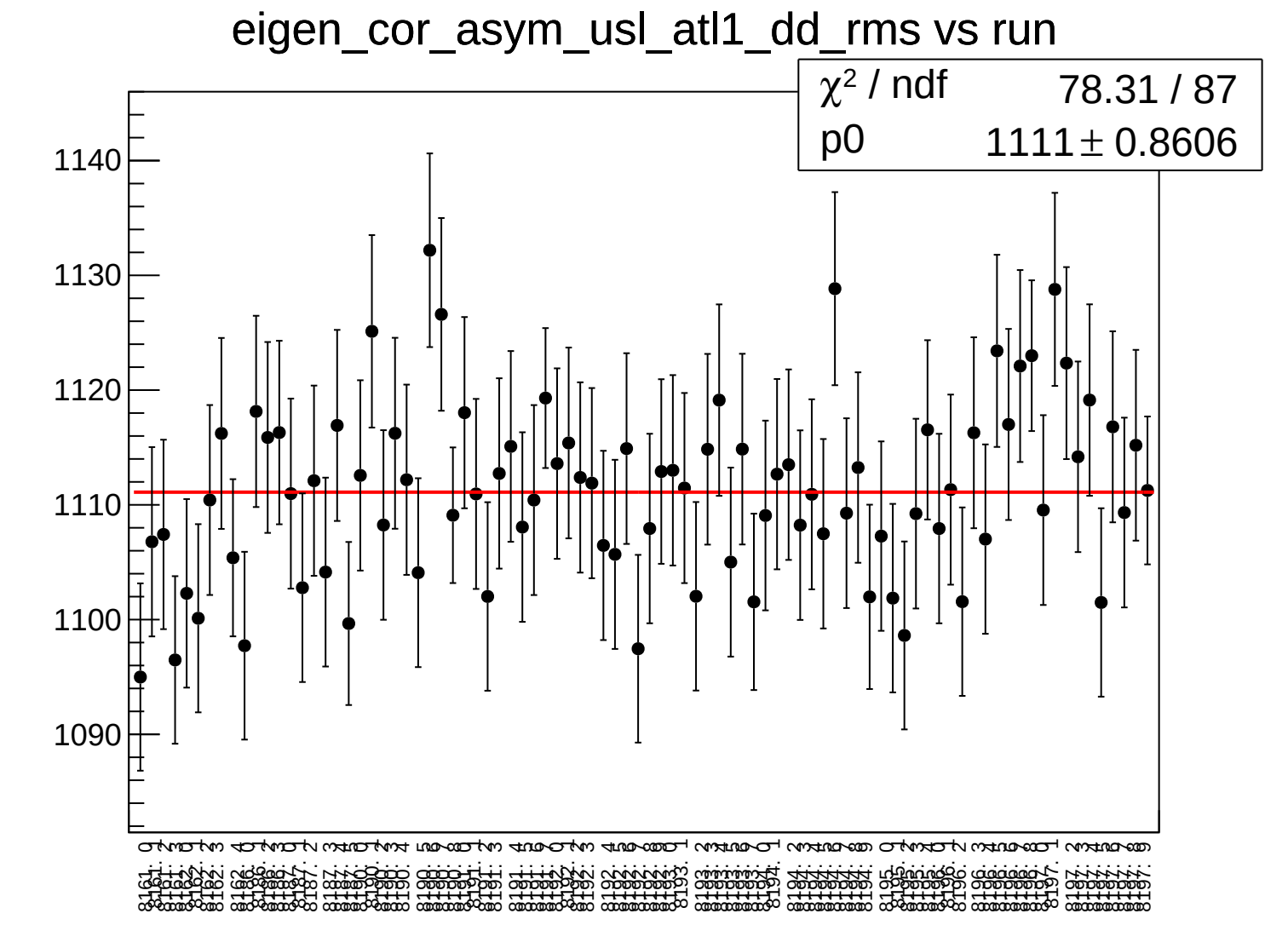

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 80.41 / 87
p0 −3169 ± 470.2
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 4366
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

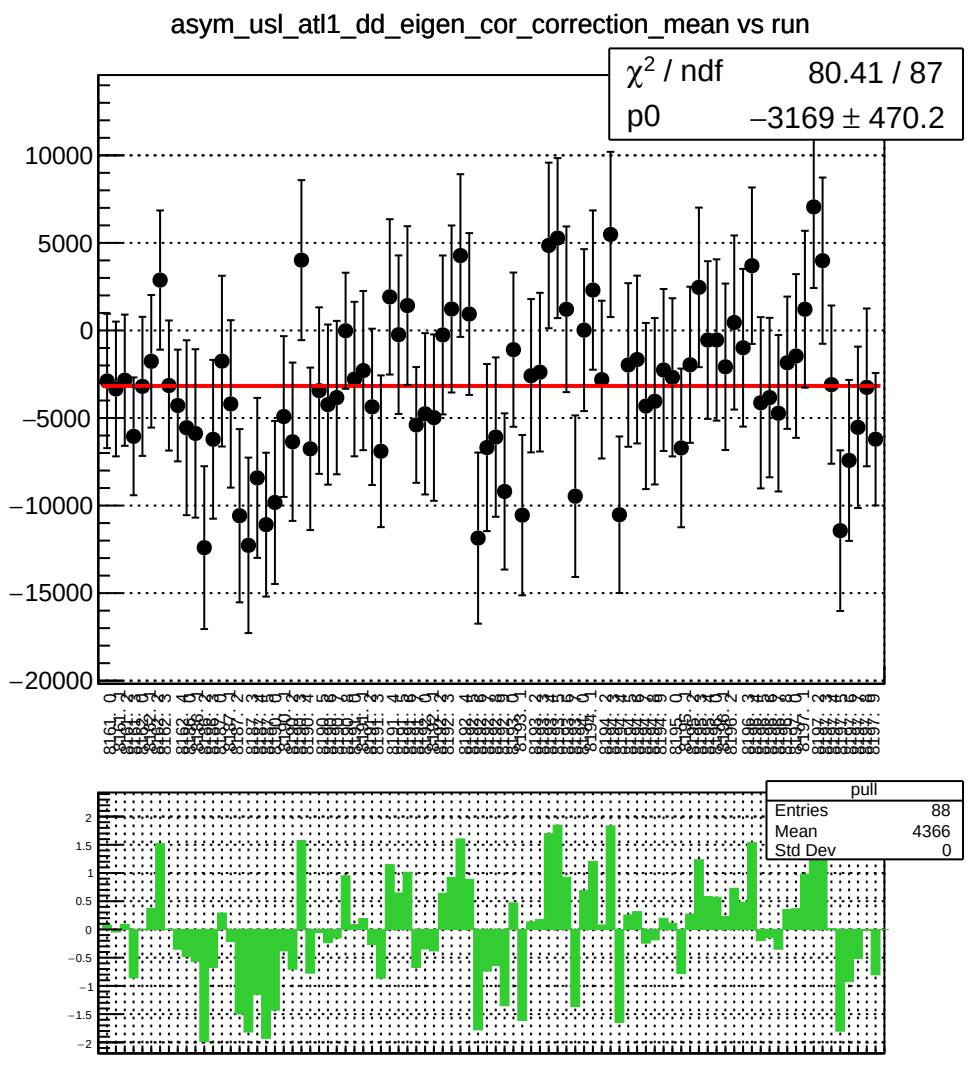

pull1D
Entries 88
Mean 0.001214
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

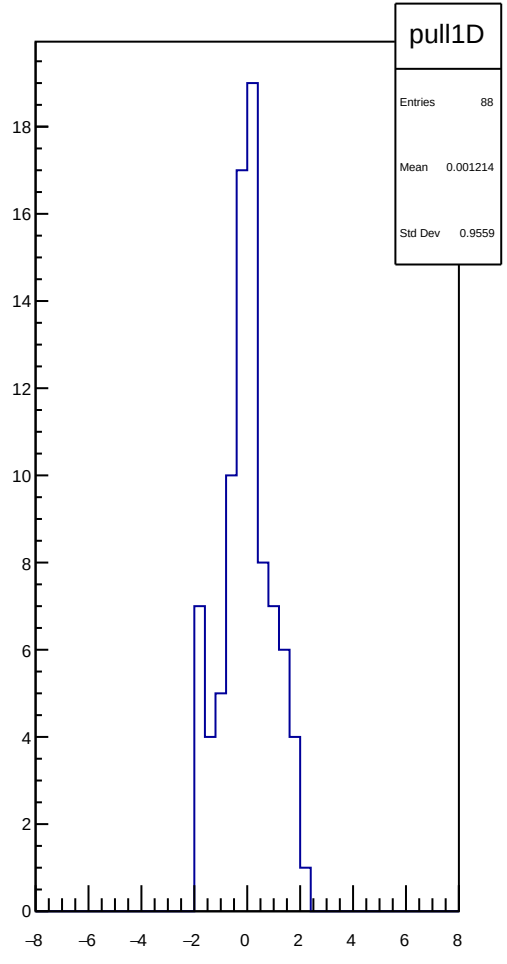

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 8271 / 87
p0 428.2 ± 0.3324
480
460
440
420
400
380
360
340

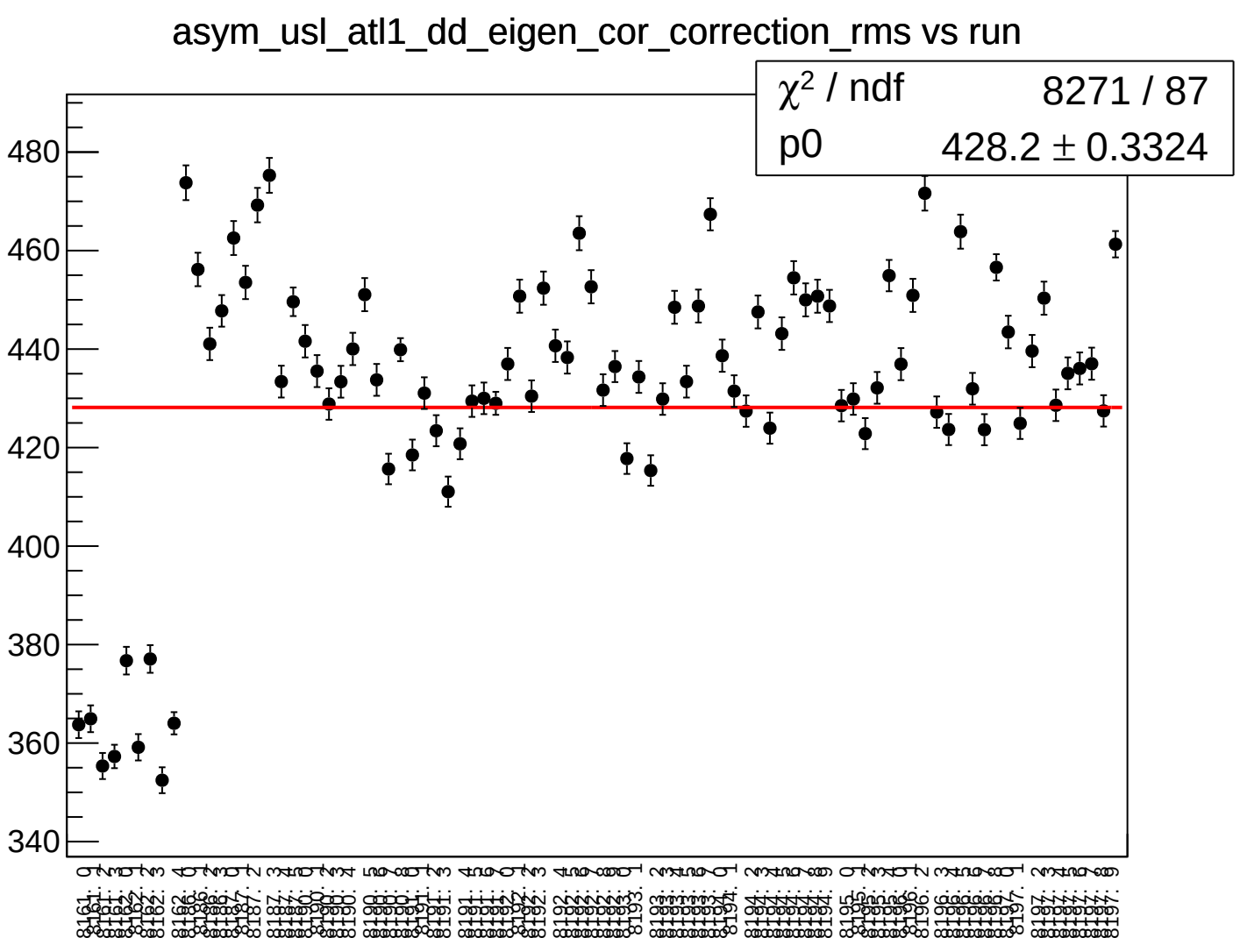

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.83 / 87
p0 −2753 ± 1217
pull
Entries 88
Mean −571.7
Std Dev 0

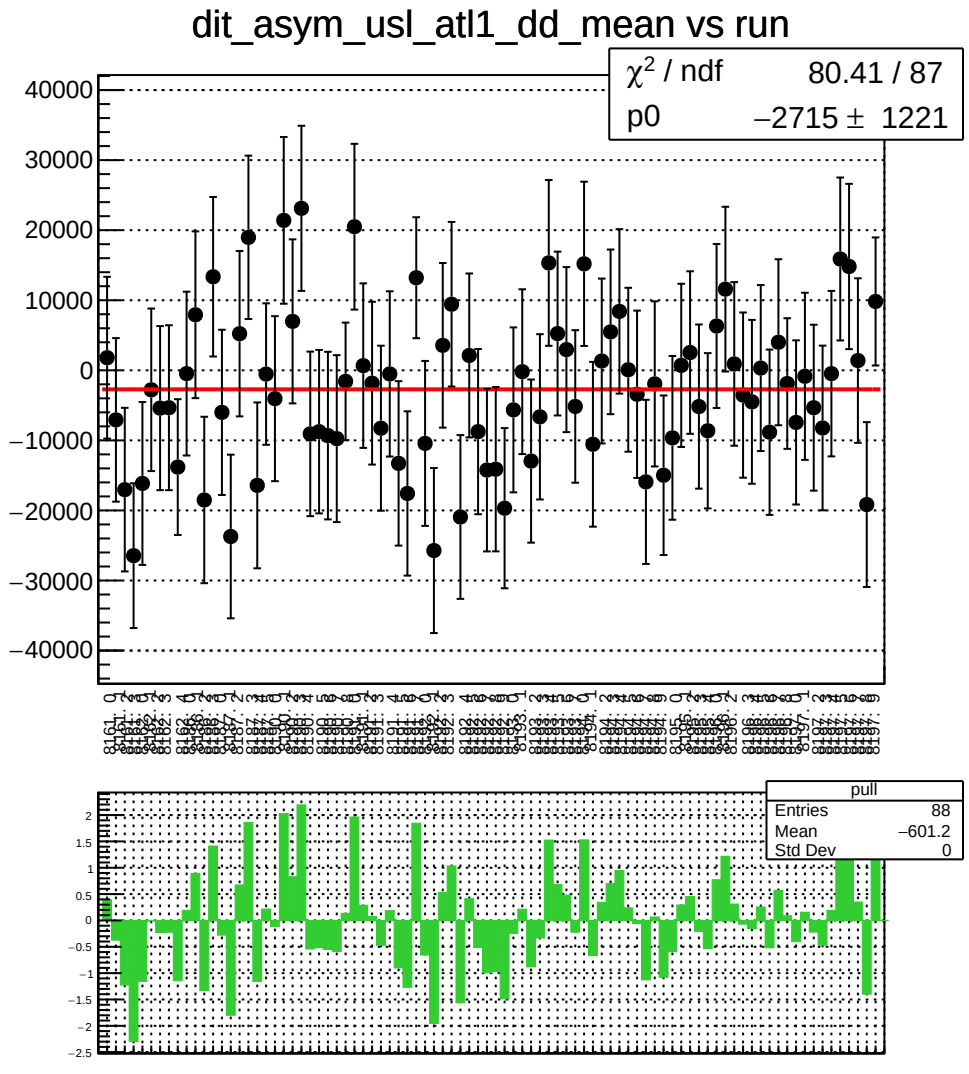

pull1D
Entries 88
Mean −0.005997
Std Dev 0.9524

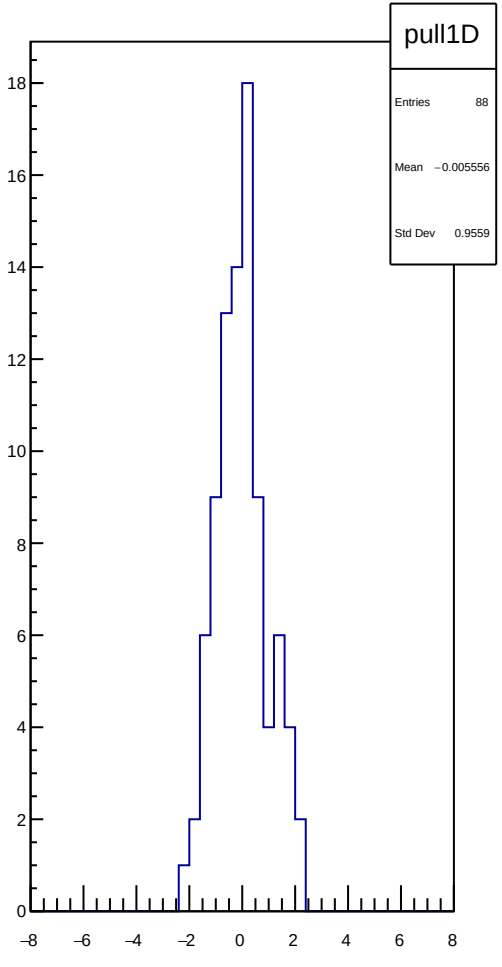

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 78.31 / 87
p0 1111 ± 0.8606
1140
1130
1120
1110
1100
1090

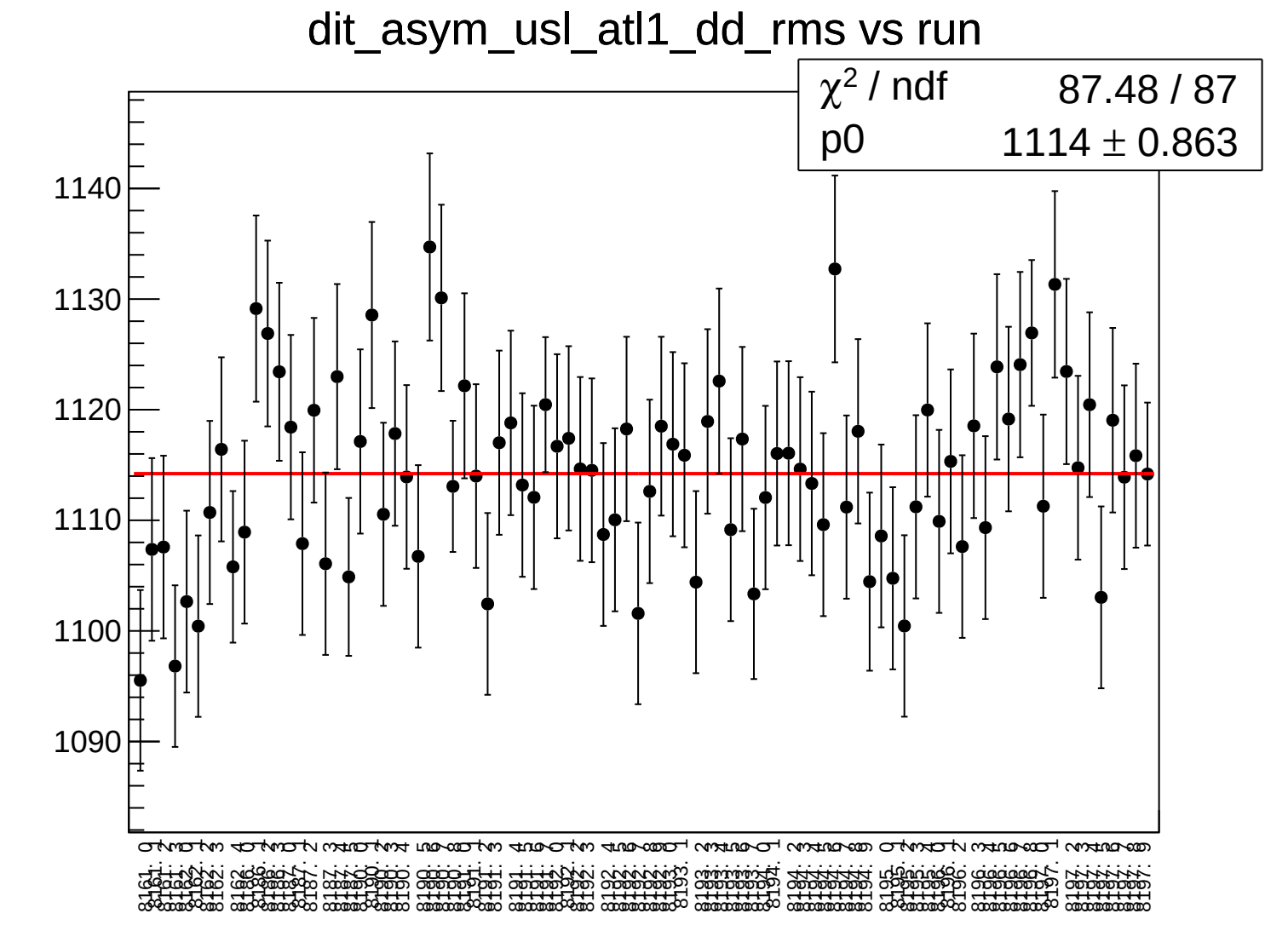

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.41 / 87
p0 −3169 ± 470.2
pull
Entries 88
Mean 4366
Std Dev 0

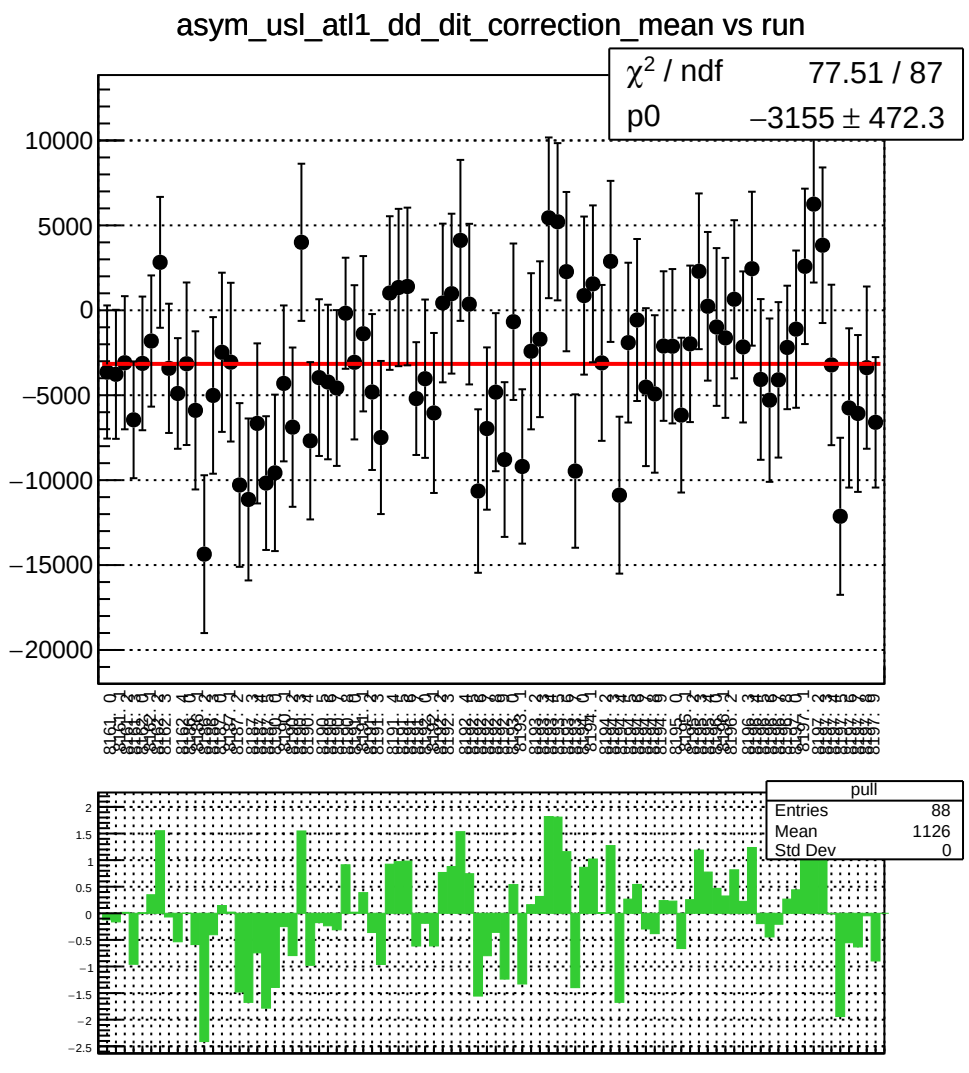

pull1D
Entries 88
Mean 0.001214
Std Dev 0.9559

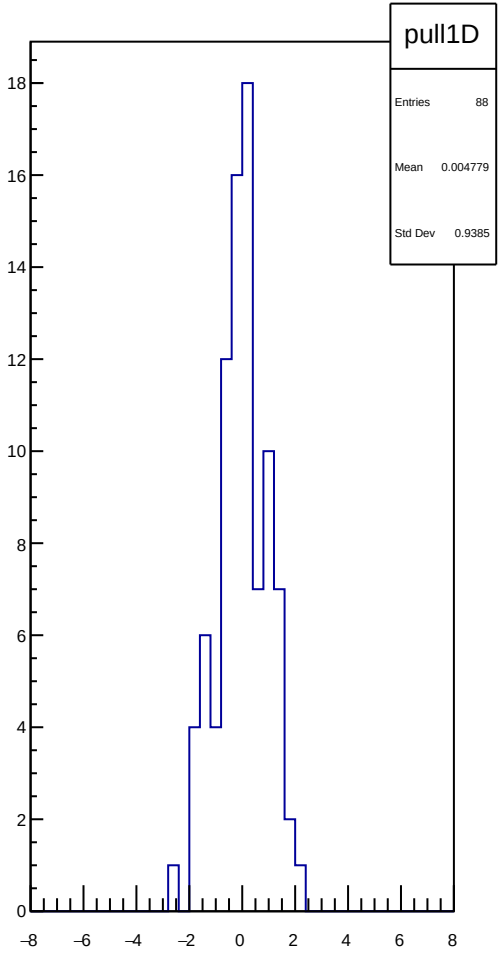

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8271 / 87
p0 428.2 ± 0.3324
480
460
440
420
400
380
360
340

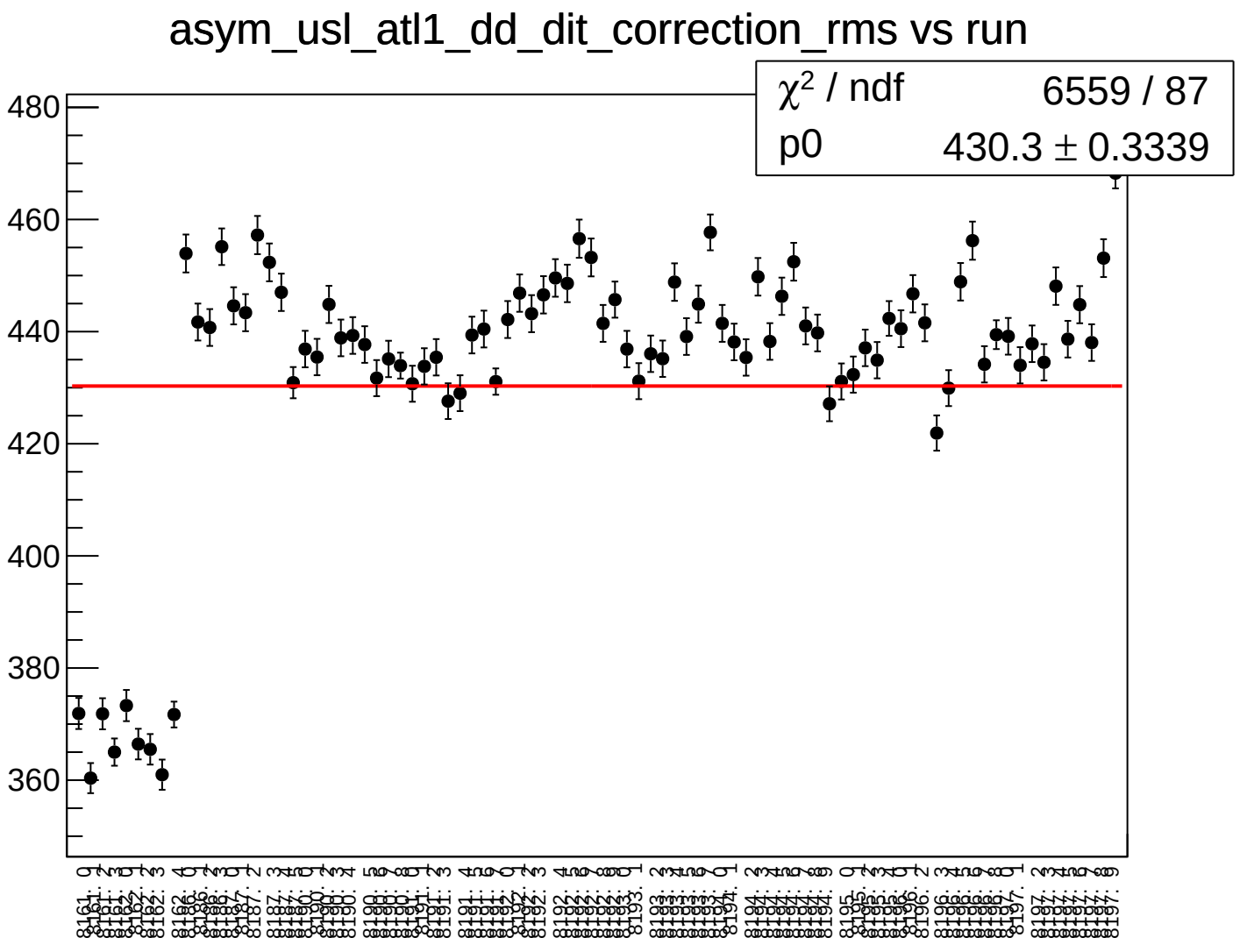

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.41 / 87
p0 −2715 ± 1221
pull
Entries 88
Mean −601.2
Std Dev 0

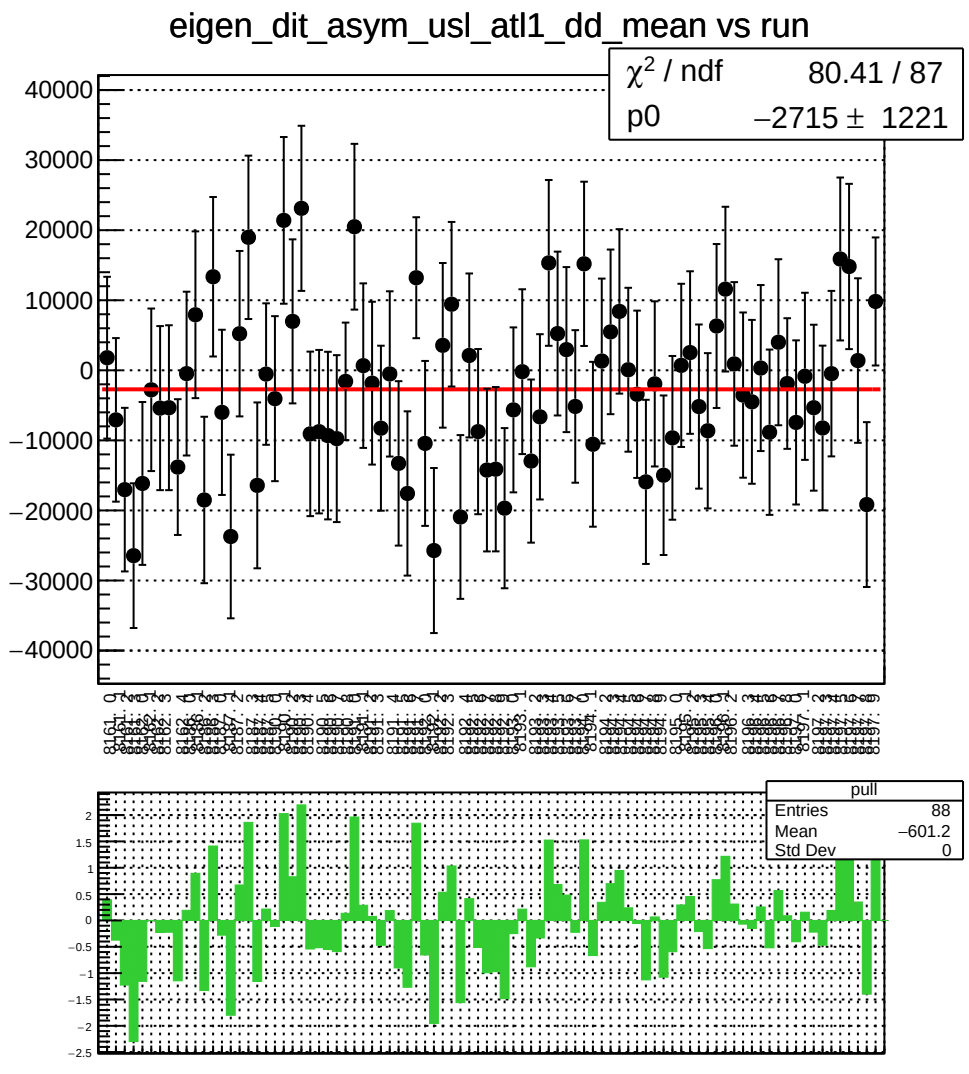

pull1D
Entries 88
Mean −0.005556
Std Dev 0.9559

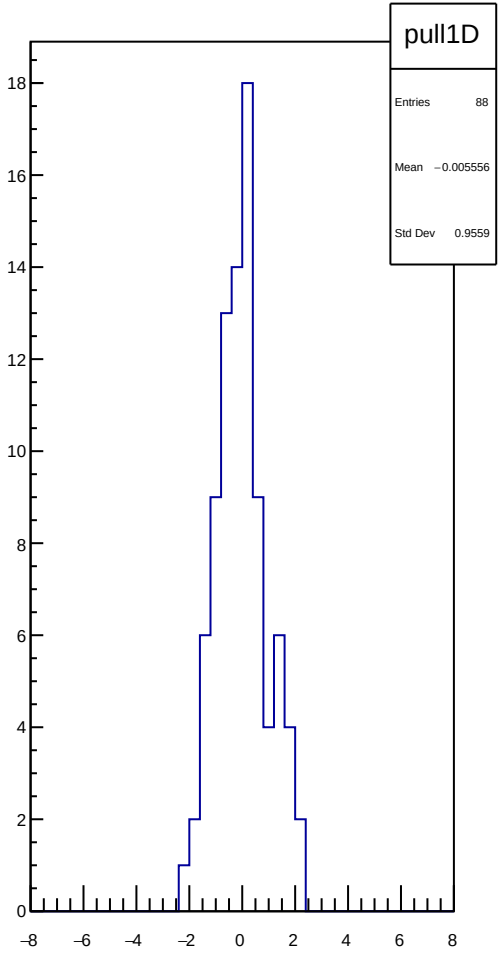

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 87.48 / 87
p0 1114 ± 0.863
1140
1130
1120
1110
1100
1090

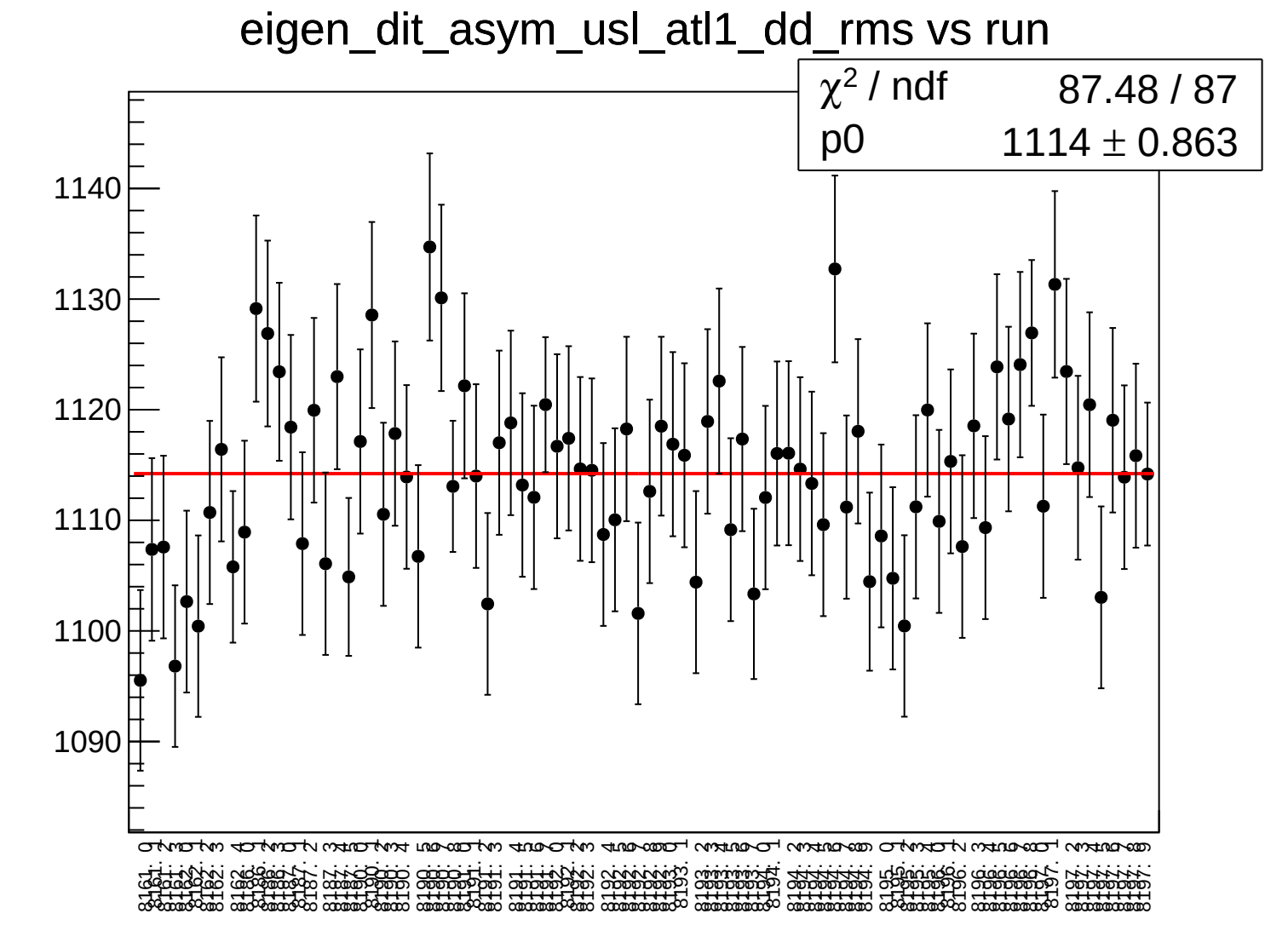

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 77.51 / 87
p0 −3155 ± 472.3
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 1126
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

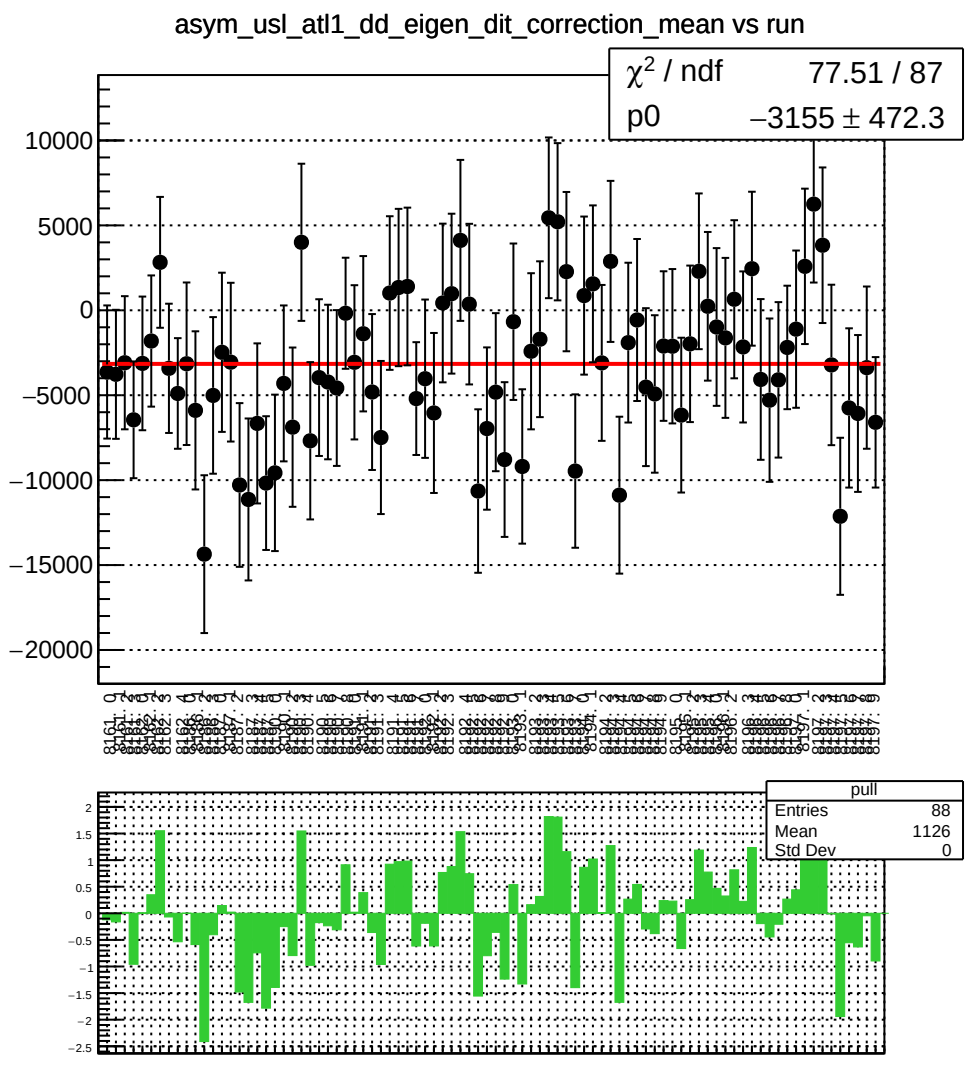

pull1D
Entries 88
Mean 0.004779
Std Dev 0.9385
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

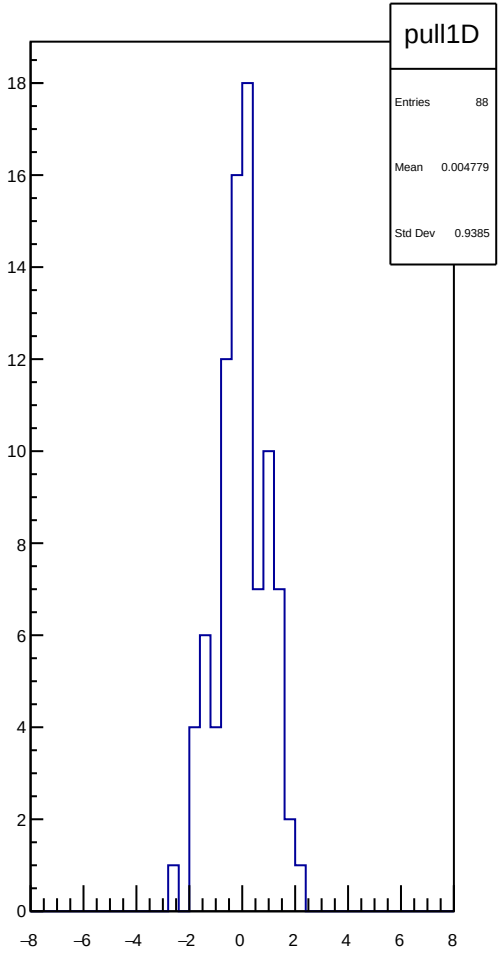

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 6559 / 87
p0 430.3 ± 0.3339
480
460
440
420
400
380
360

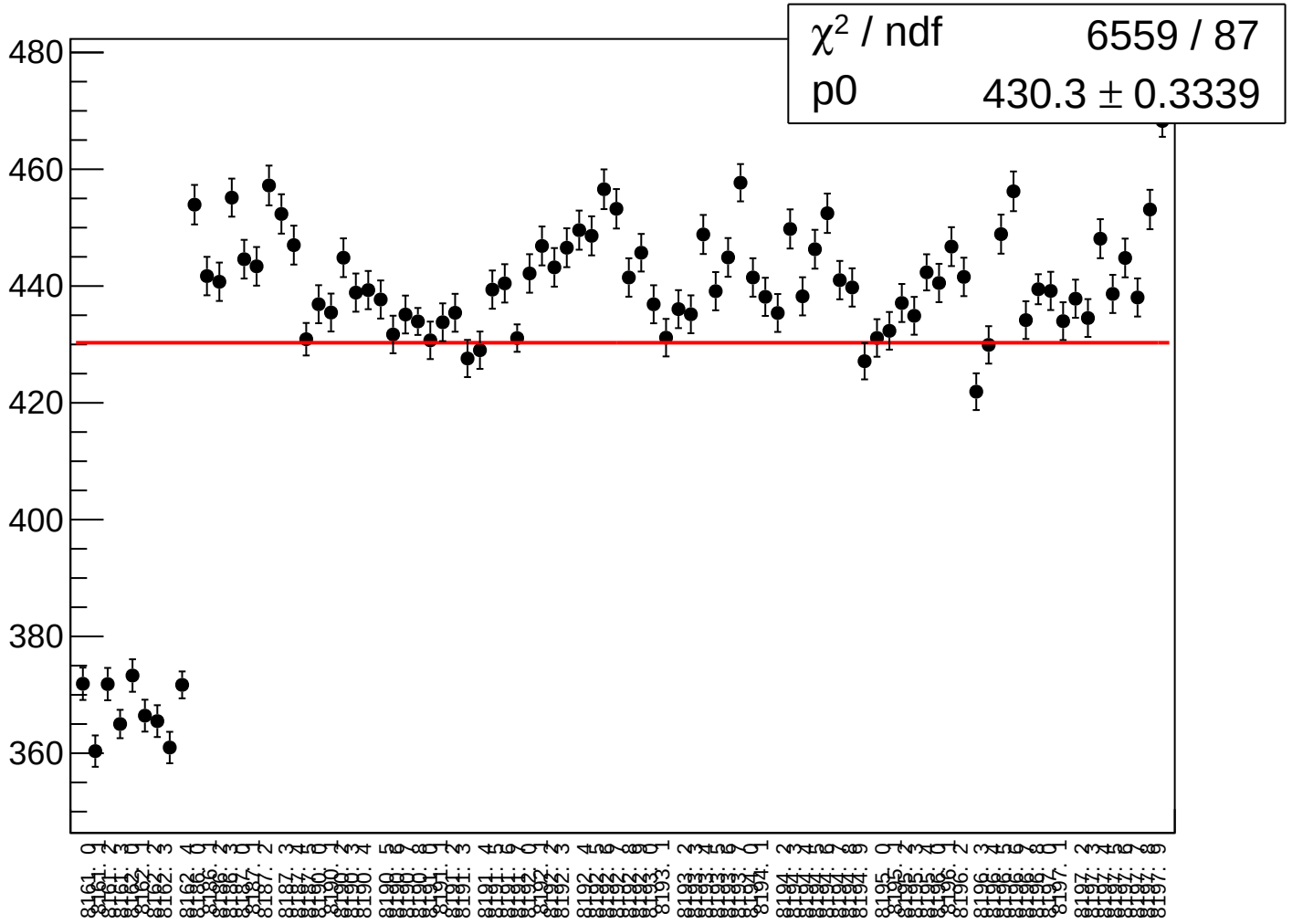

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.41 / 87
p0 −2715 ± 1221
pull
Entries 88
Mean −601.2
Std Dev 0

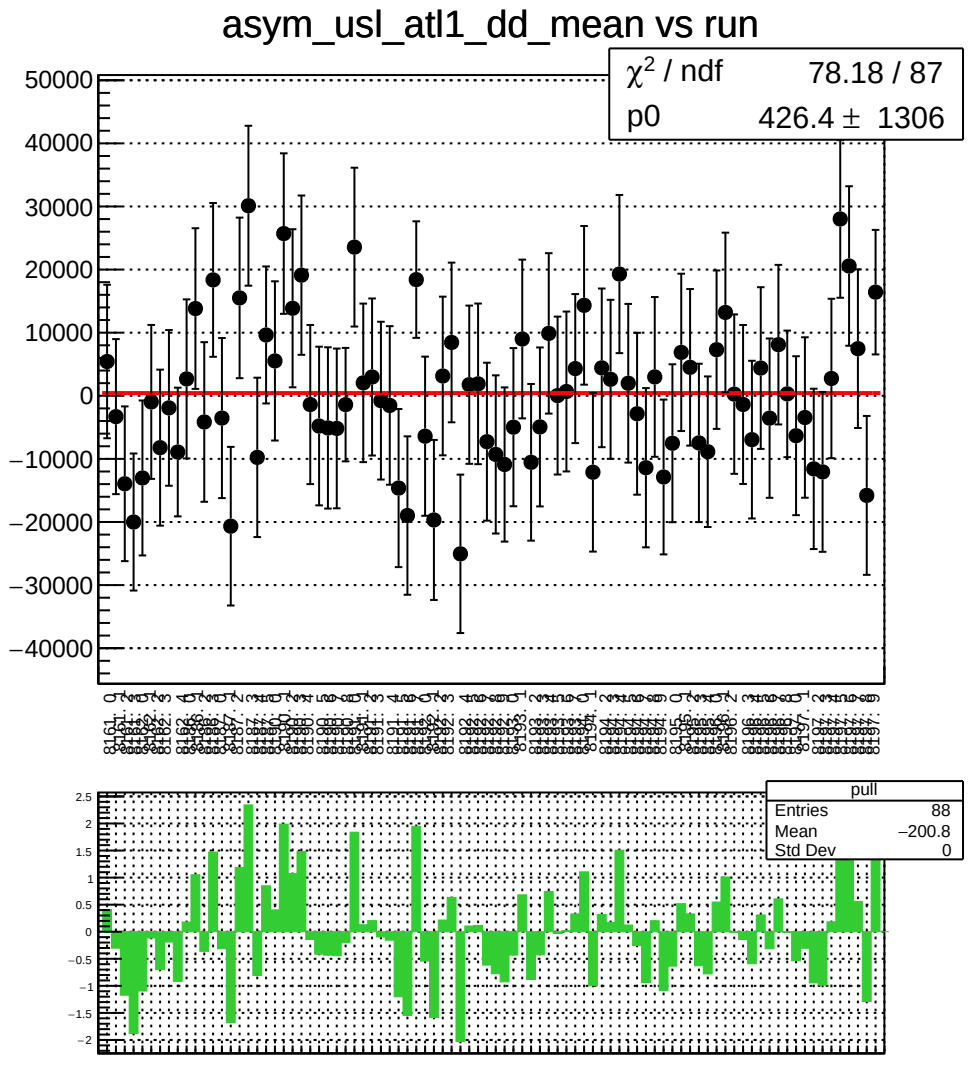

pull1D
Entries 88
Mean −0.005556
Std Dev 0.9559

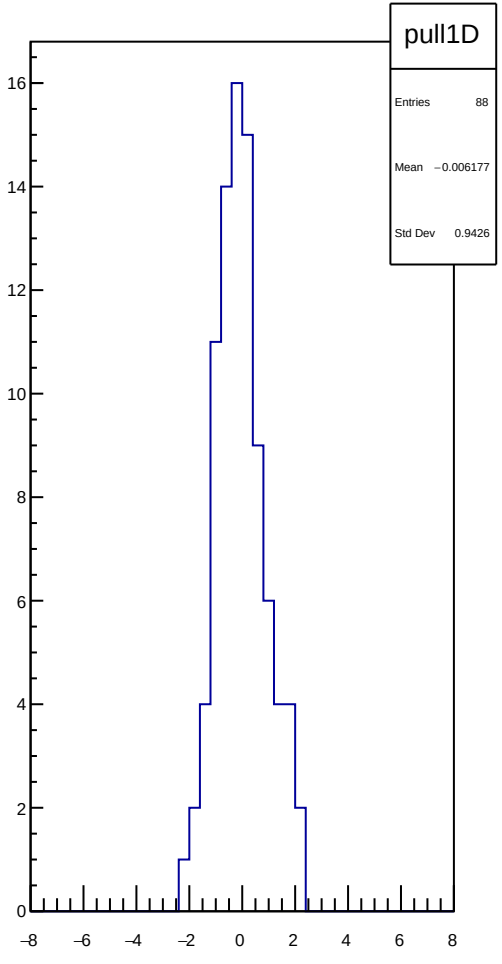

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 87.48 / 87
p0 1114 ± 0.863
1140
1130
1120
1110
1100
1090

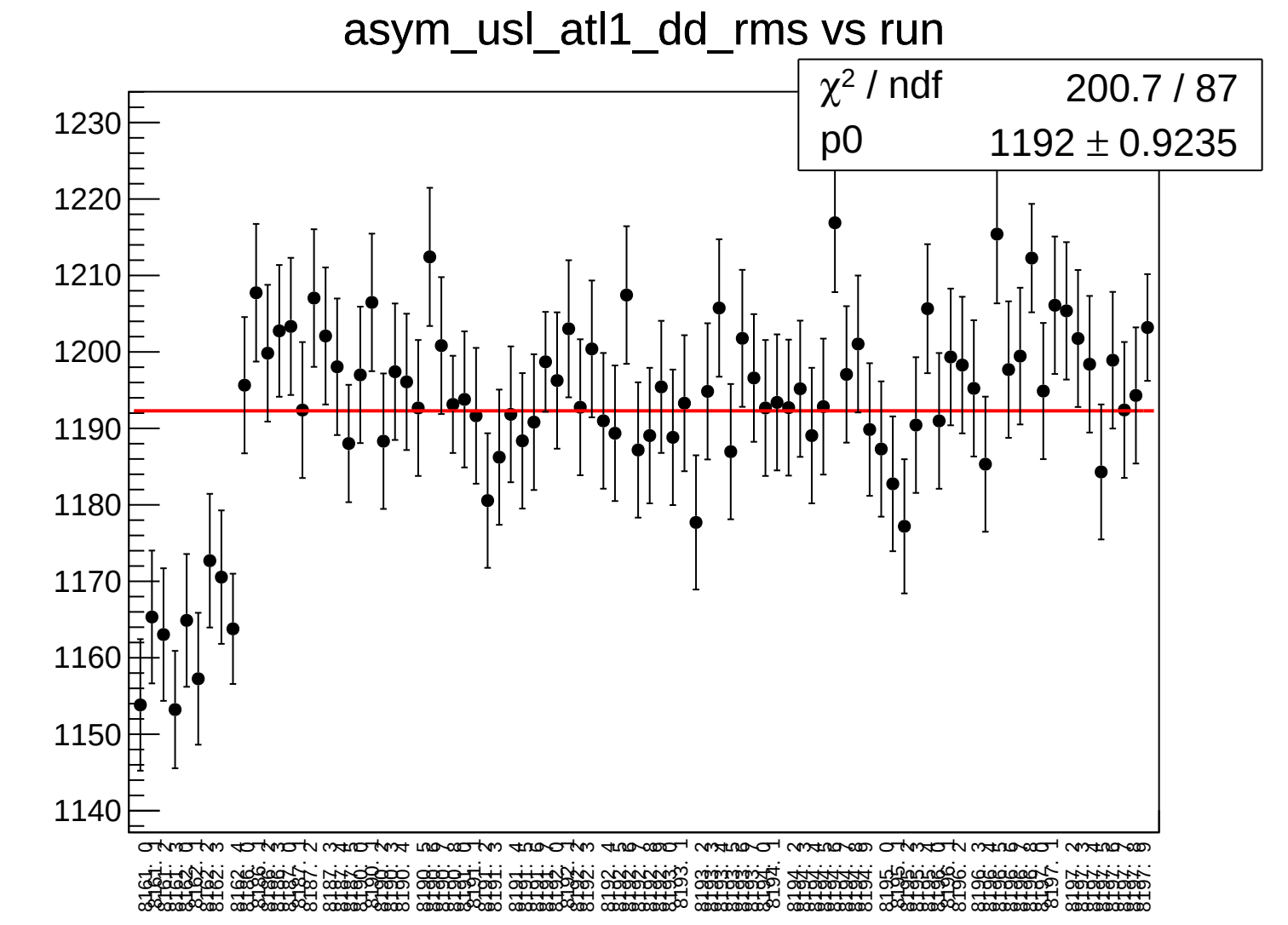

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.51 / 87
p0 −3155 ± 472.3
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 1126
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

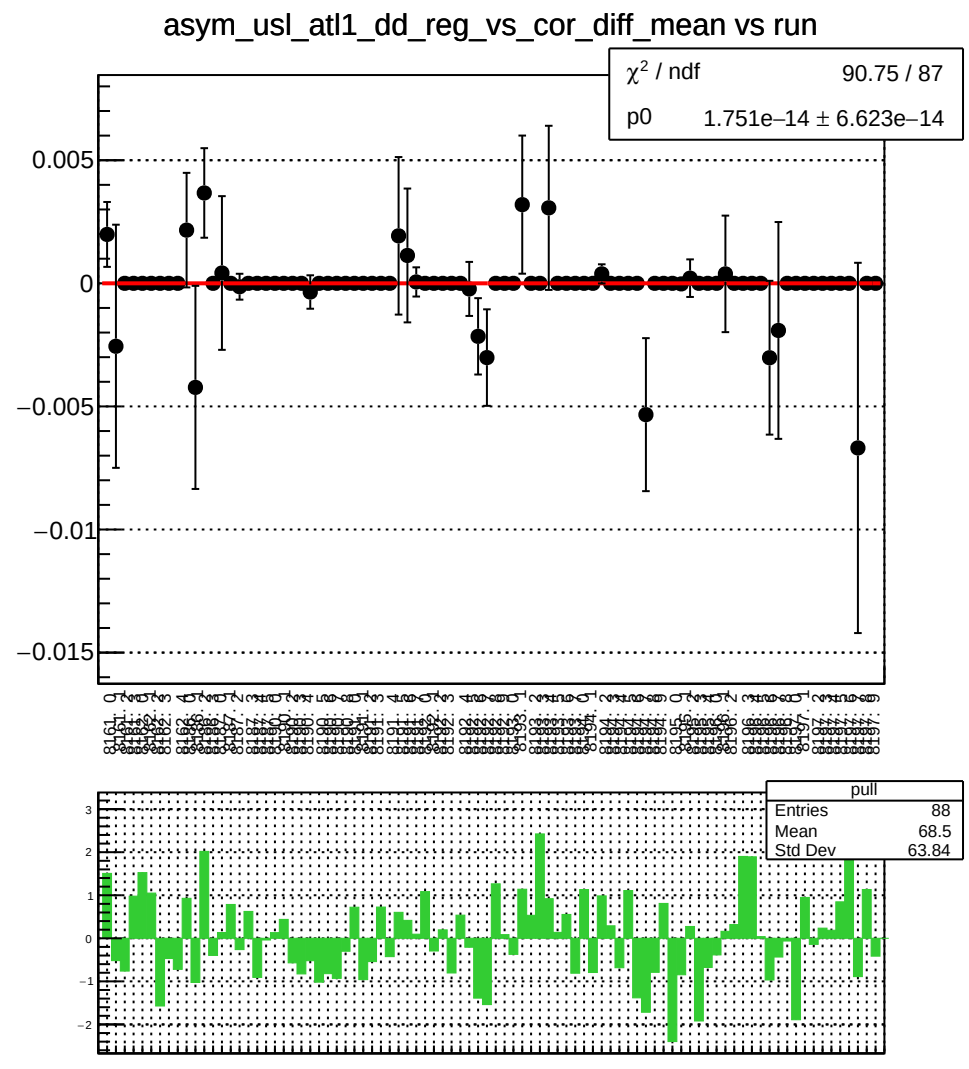

pull1D
Entries 88
Mean 0.004779
Std Dev 0.9385
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

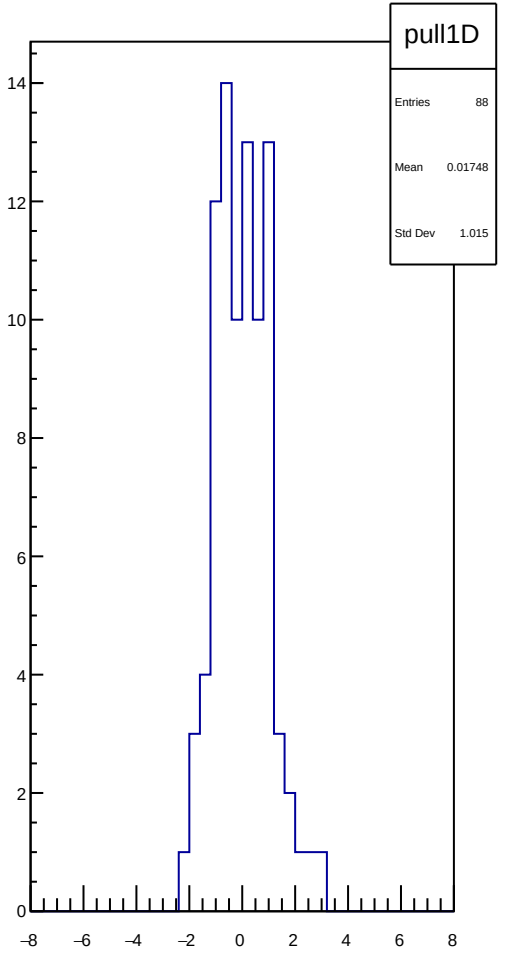

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 6559 / 87
p0 430.3 ± 0.3339
480
460
440
420
400
380
360

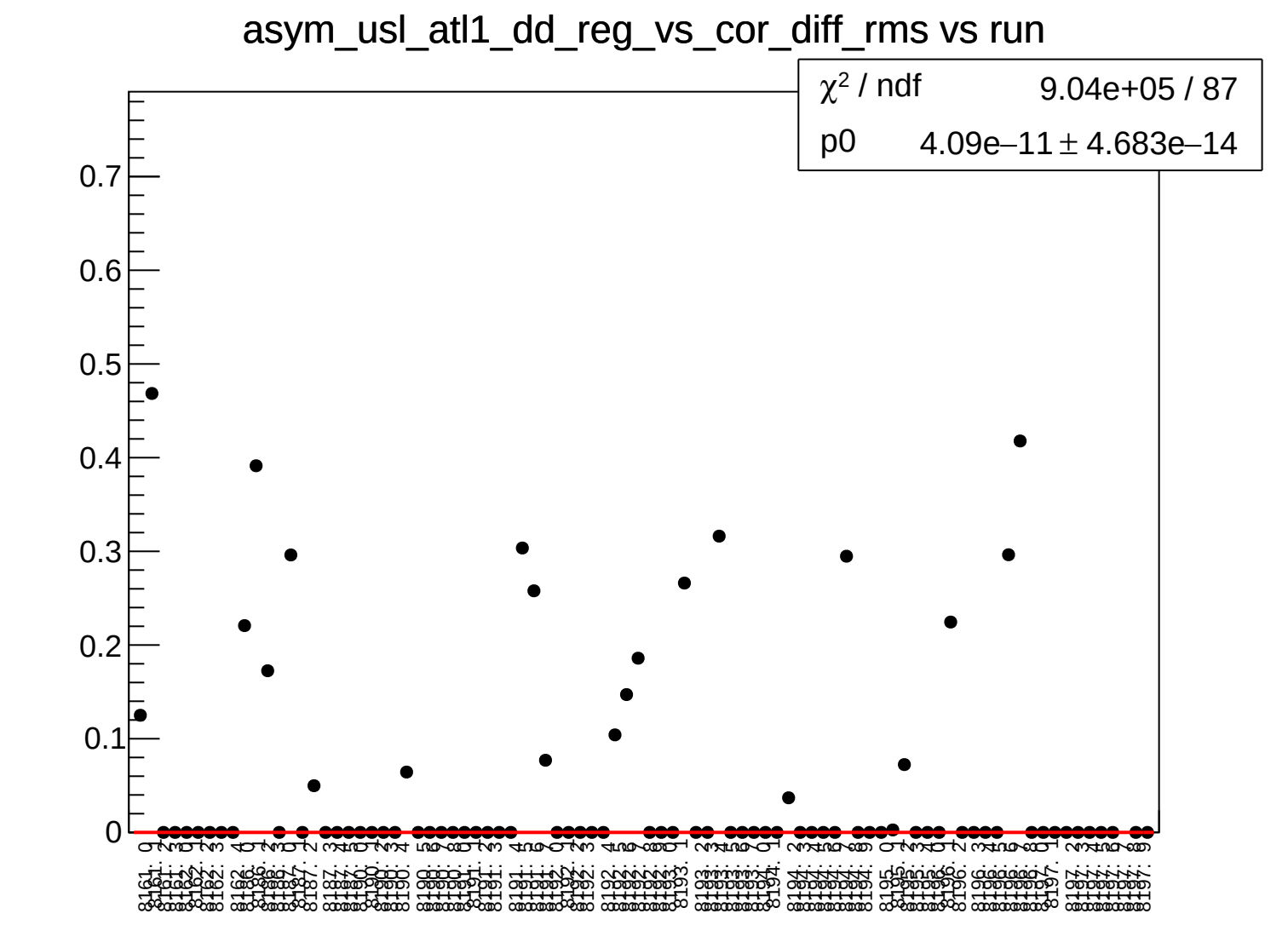

asym_usl_atl1_dd_mean vs run
χ² / ndf 78.18 / 87
p0 426.4 ± 1306
pull
Entries 88
Mean −200.8
Std Dev 0

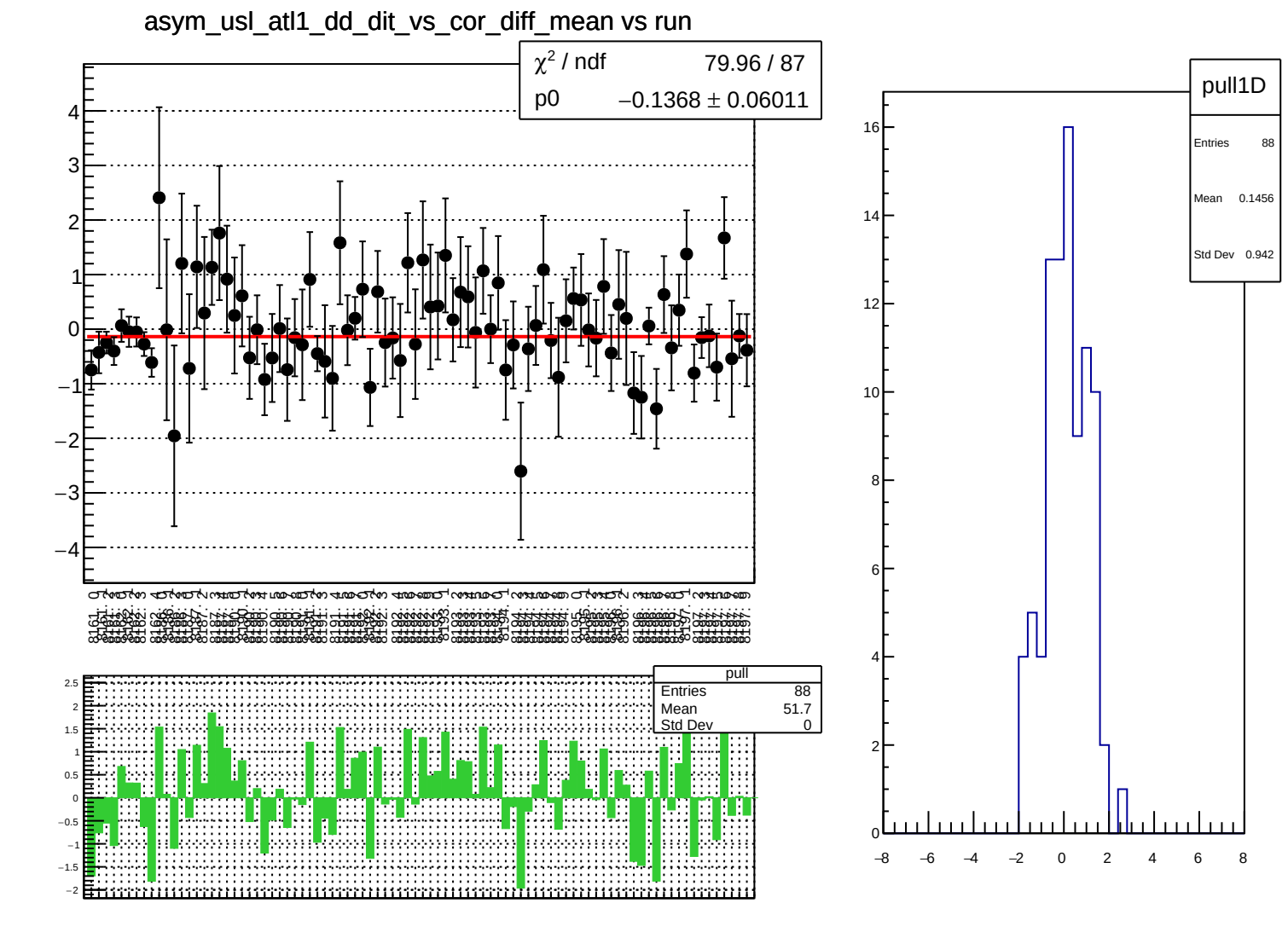

pull1D
Entries 88
Mean −0.006177
Std Dev 0.9426

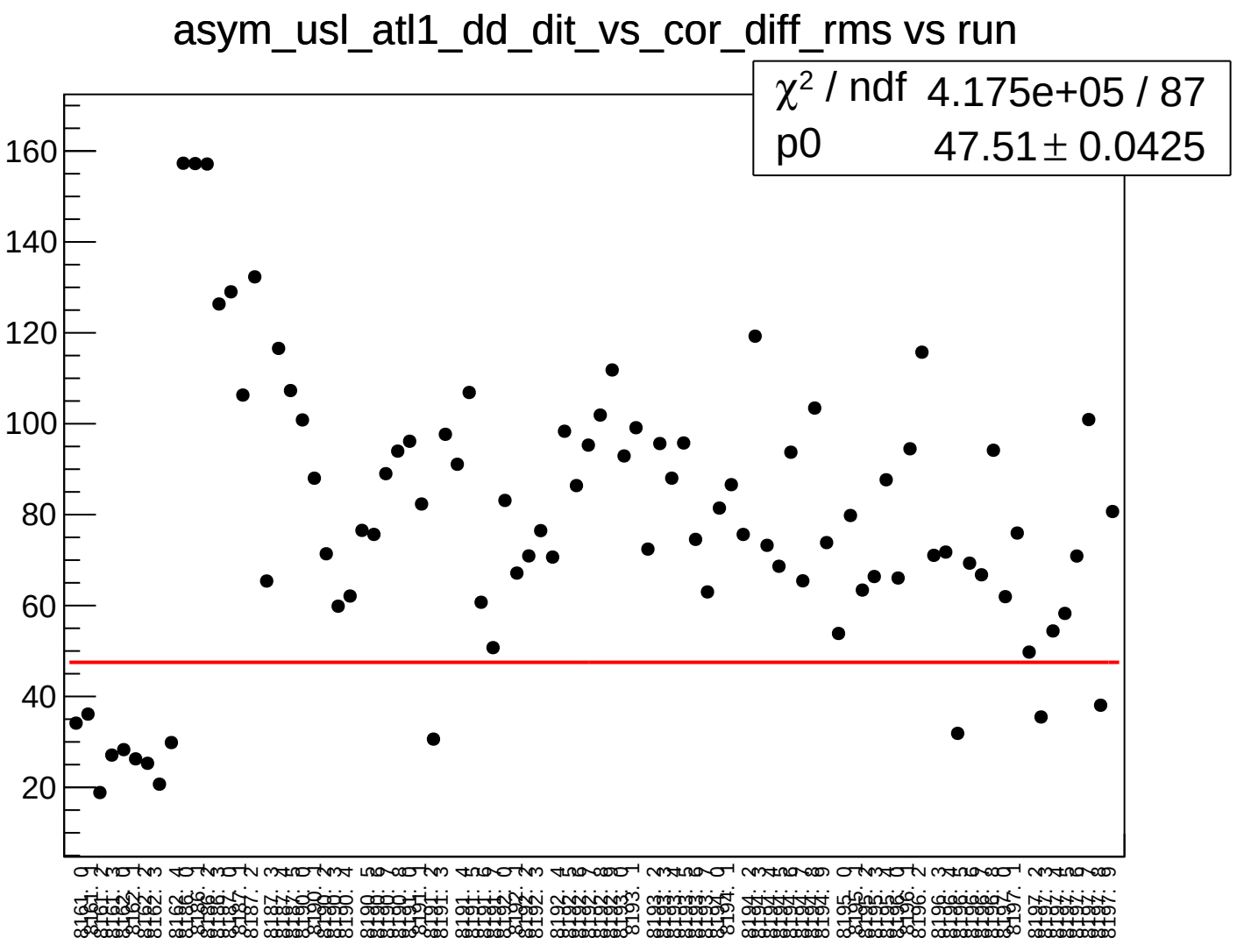

asym_usl_atl1_dd_rms vs run
χ² / ndf 200.7 / 87
p0 1192 ± 0.9235
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140

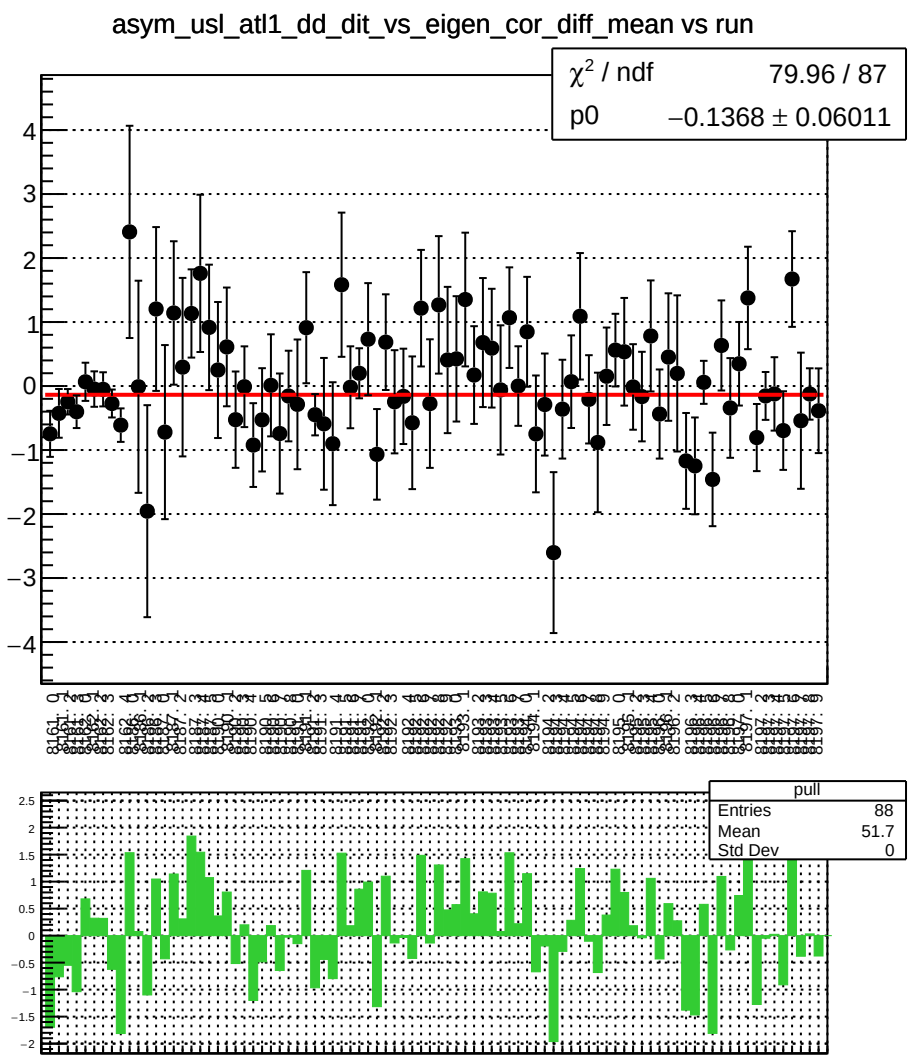

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.75 / 87
p0 1.751e−14 ± 6.623e−14
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 68.5
Std Dev 63.84
3
2
1
0
−1
−2

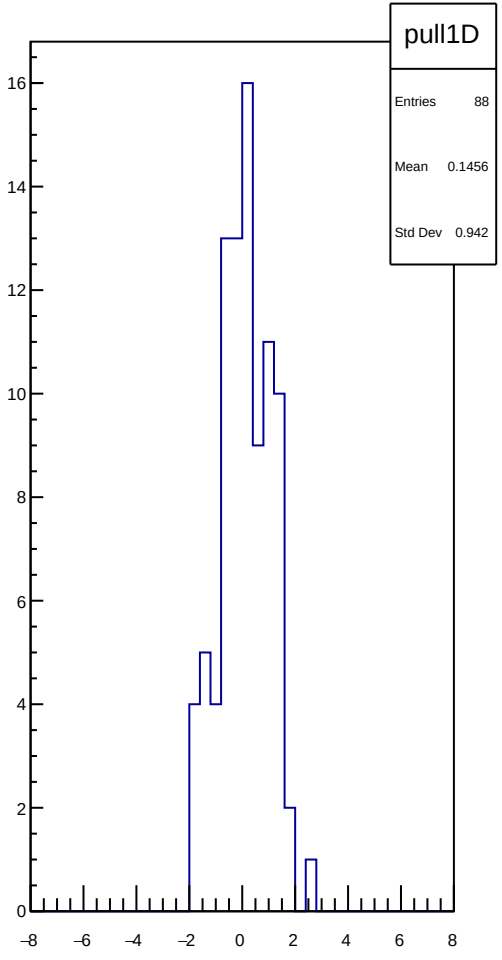

pull1D
Entries 88
Mean 0.01748
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

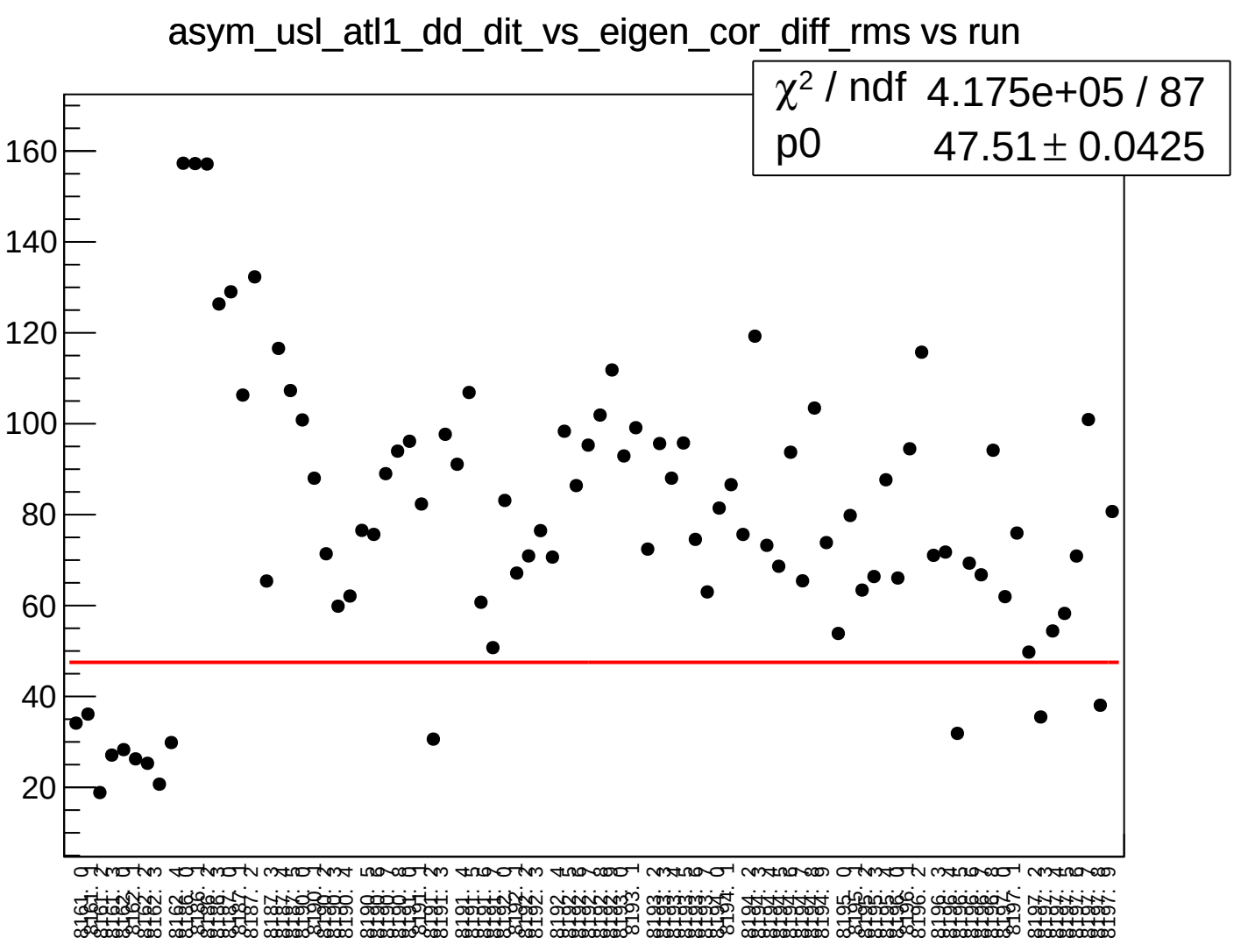

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.04e+05 / 87
p0 4.09e−11 ± 4.683e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

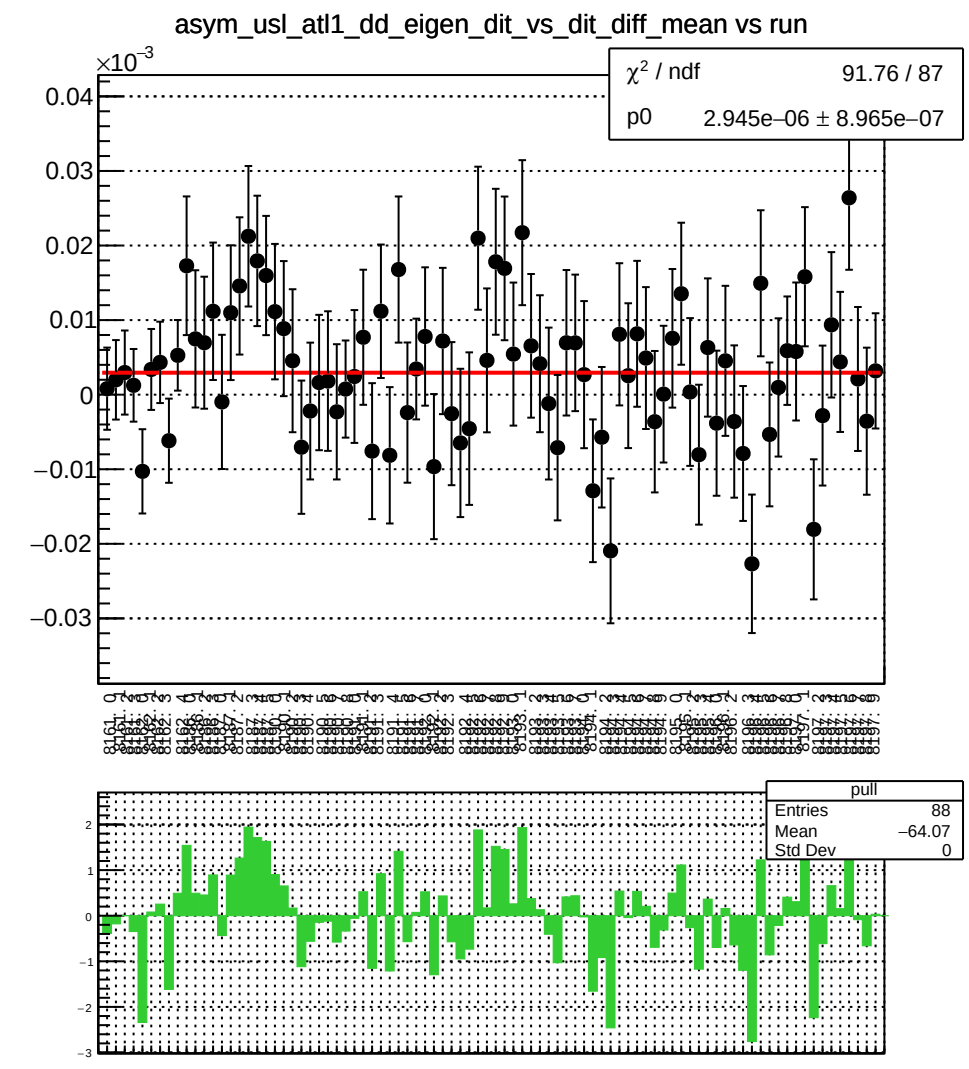

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.96 / 87
p0 −0.1368 ± 0.06011
pull
Entries 88
Mean 51.7
Std Dev 0
pull1D
Entries 88
Mean 0.1456
Std Dev 0.942

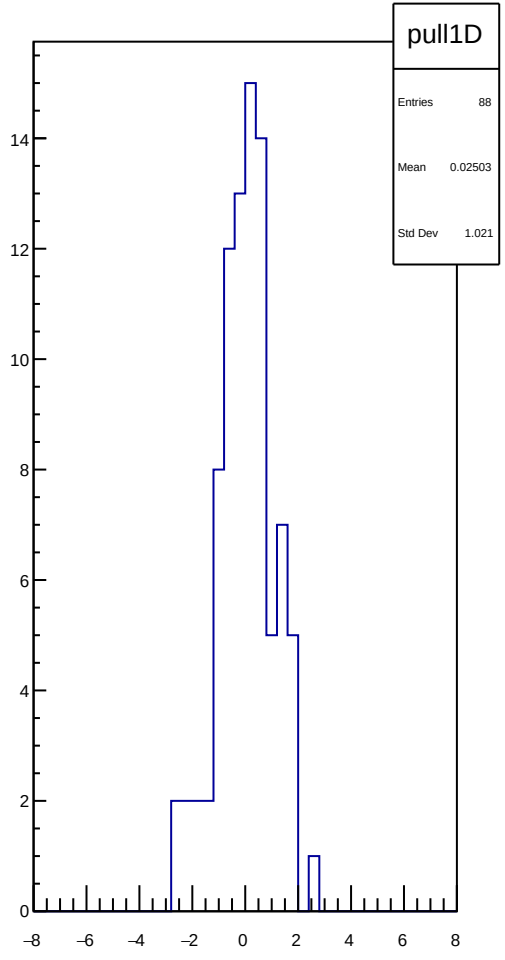

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.175e+05 / 87
p0 47.51 ± 0.0425
160
140
120
100
80
60
40
20

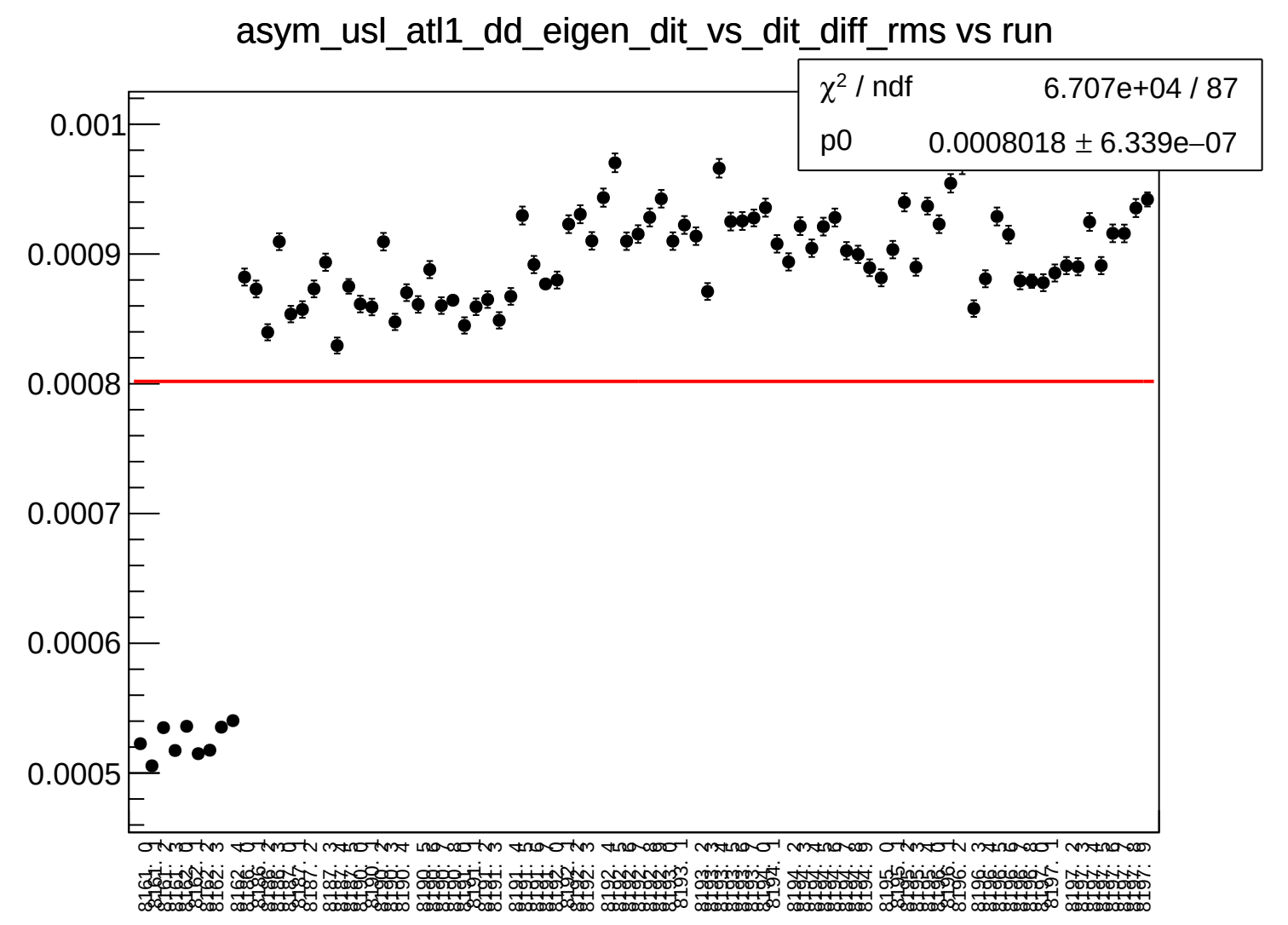

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.96 / 87
p0 −0.1368 ± 0.06011
pull
Entries 88
Mean 51.7
Std Dev 0

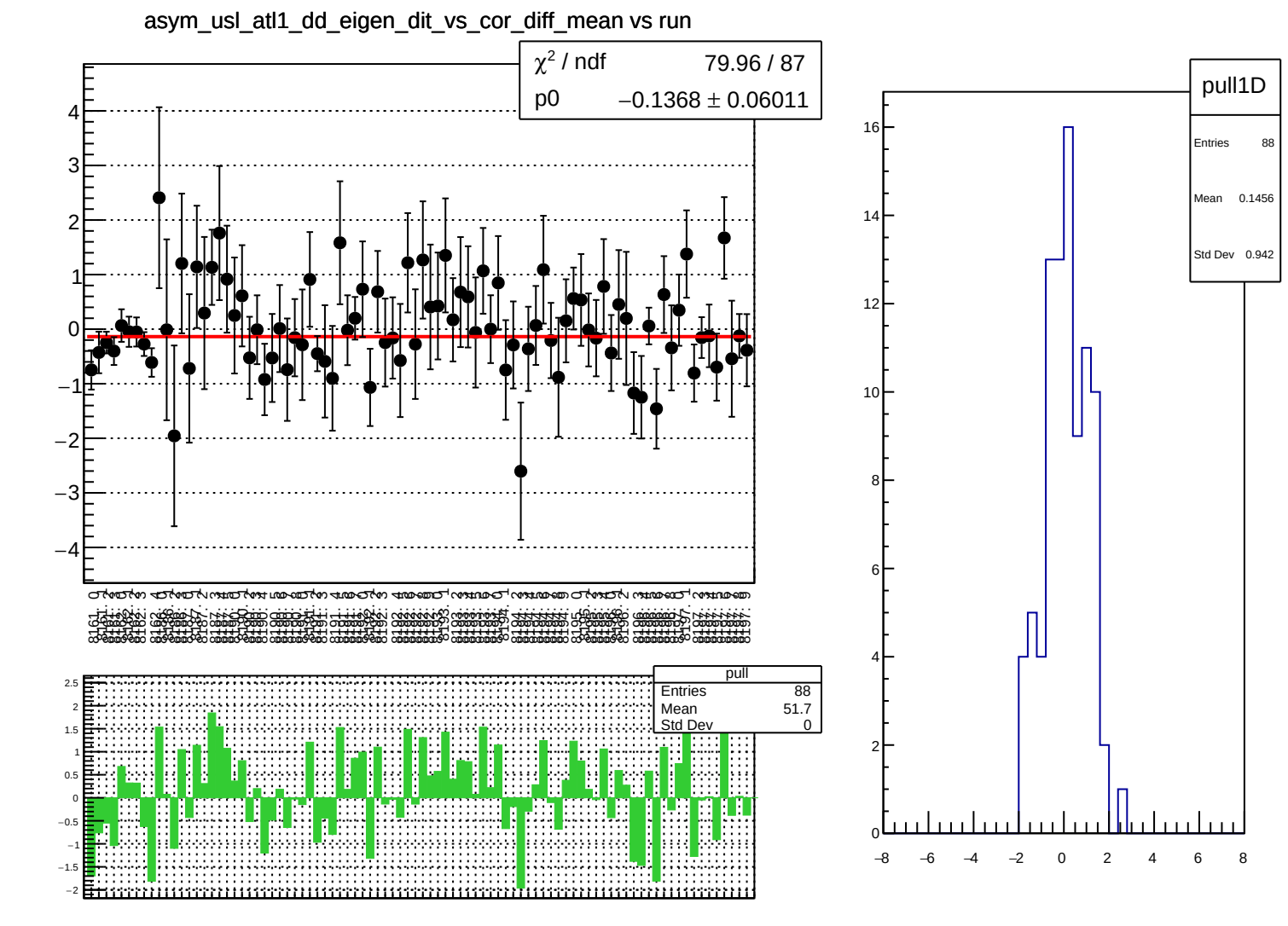

pull1D
Entries 88
Mean 0.1456
Std Dev 0.942

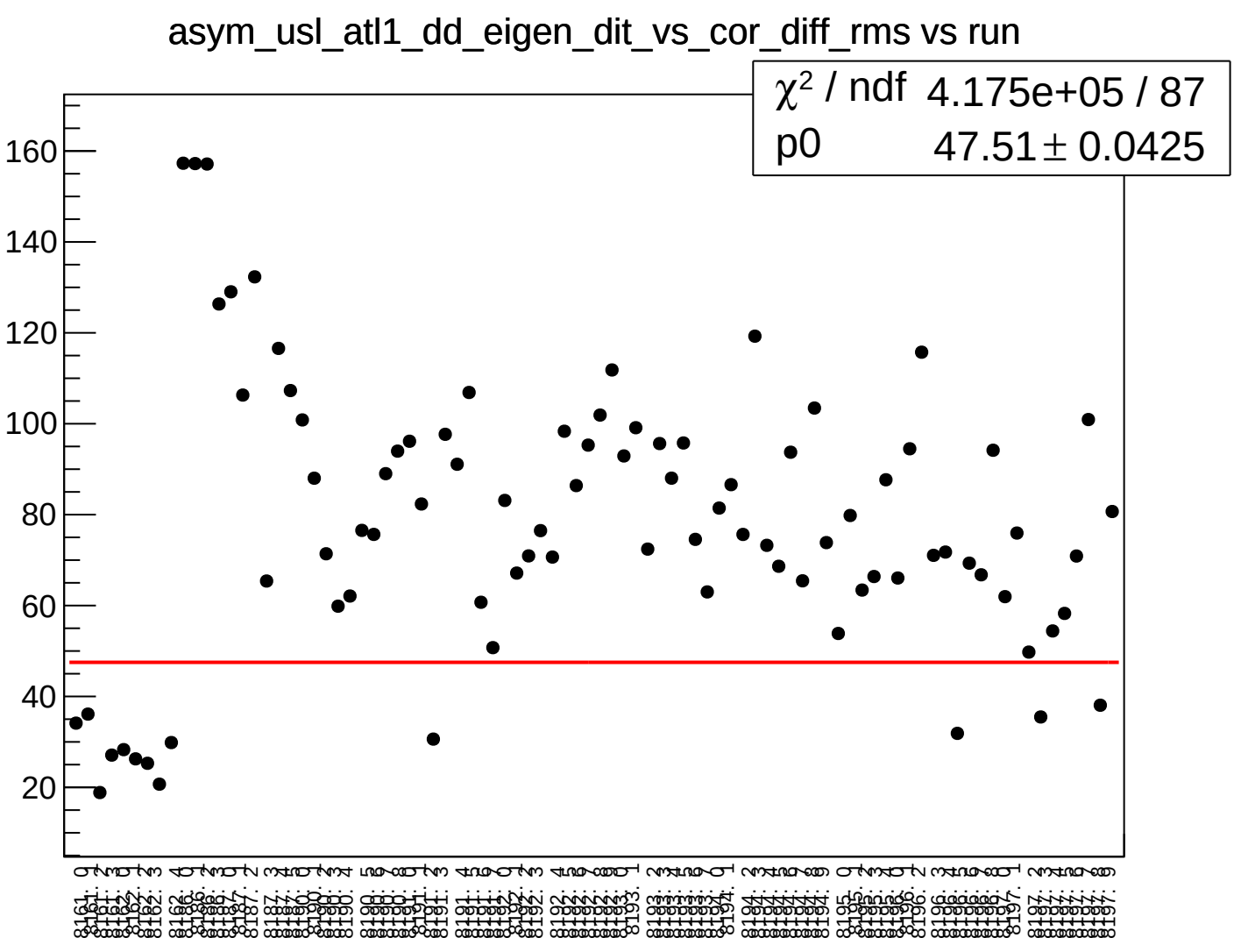

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.175e+05 / 87
p0 47.51 ± 0.0425
160
140
120
100
80
60
40
20

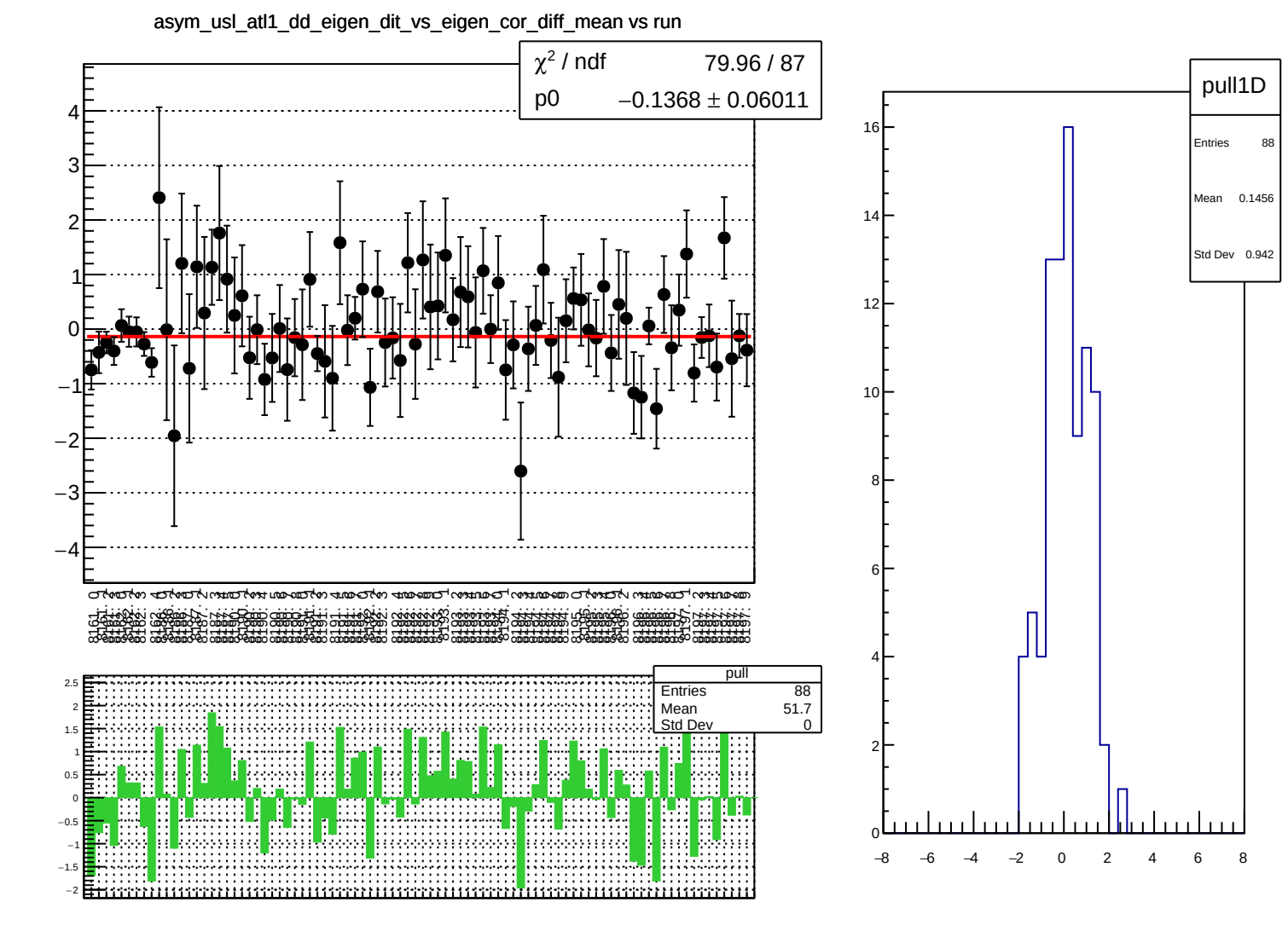

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.76 / 87
p0 2.945e−06 ± 8.965e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −64.07
Std Dev 0
2
1
0
−1
−2
−3

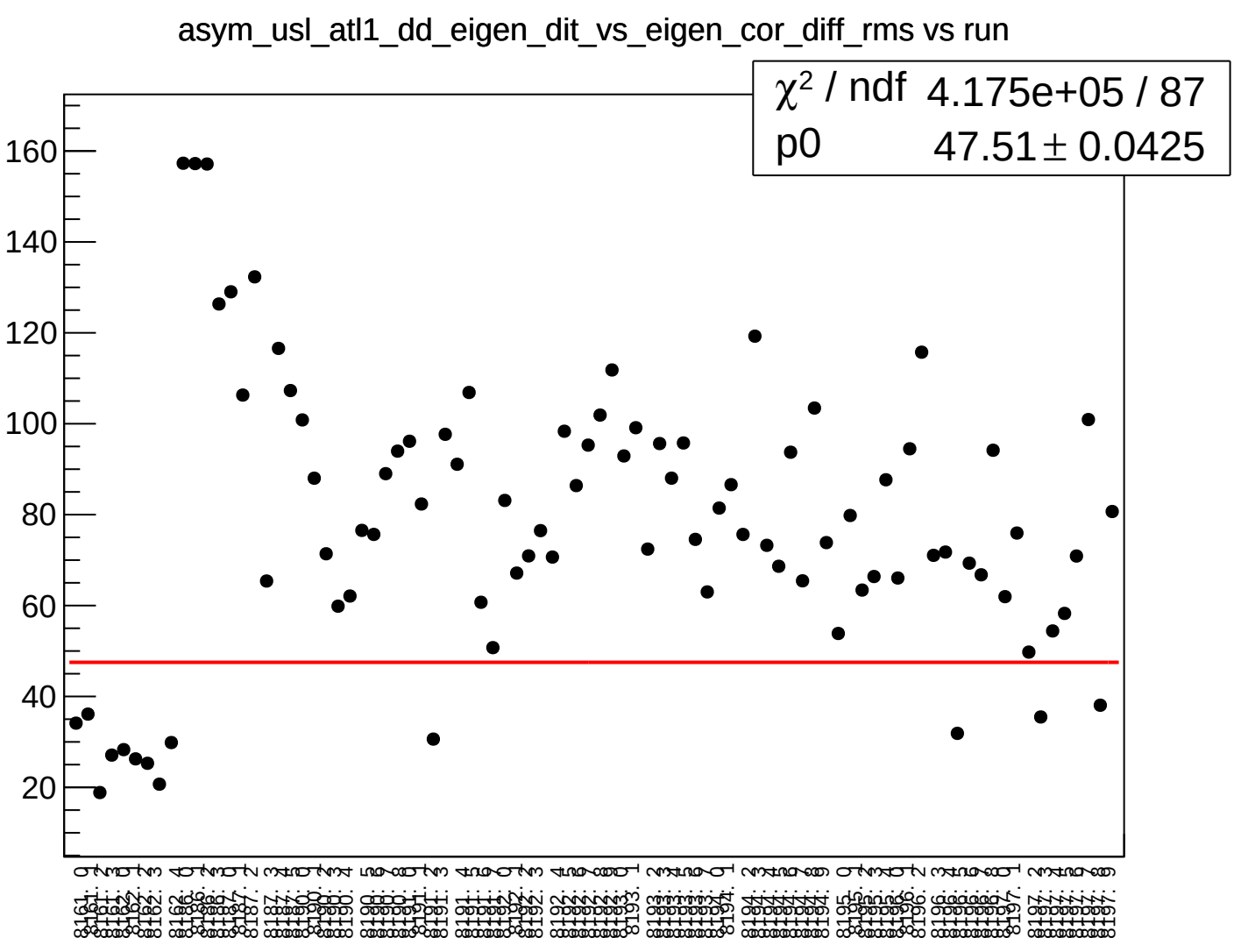

pull1D
Entries 88
Mean 0.02503
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

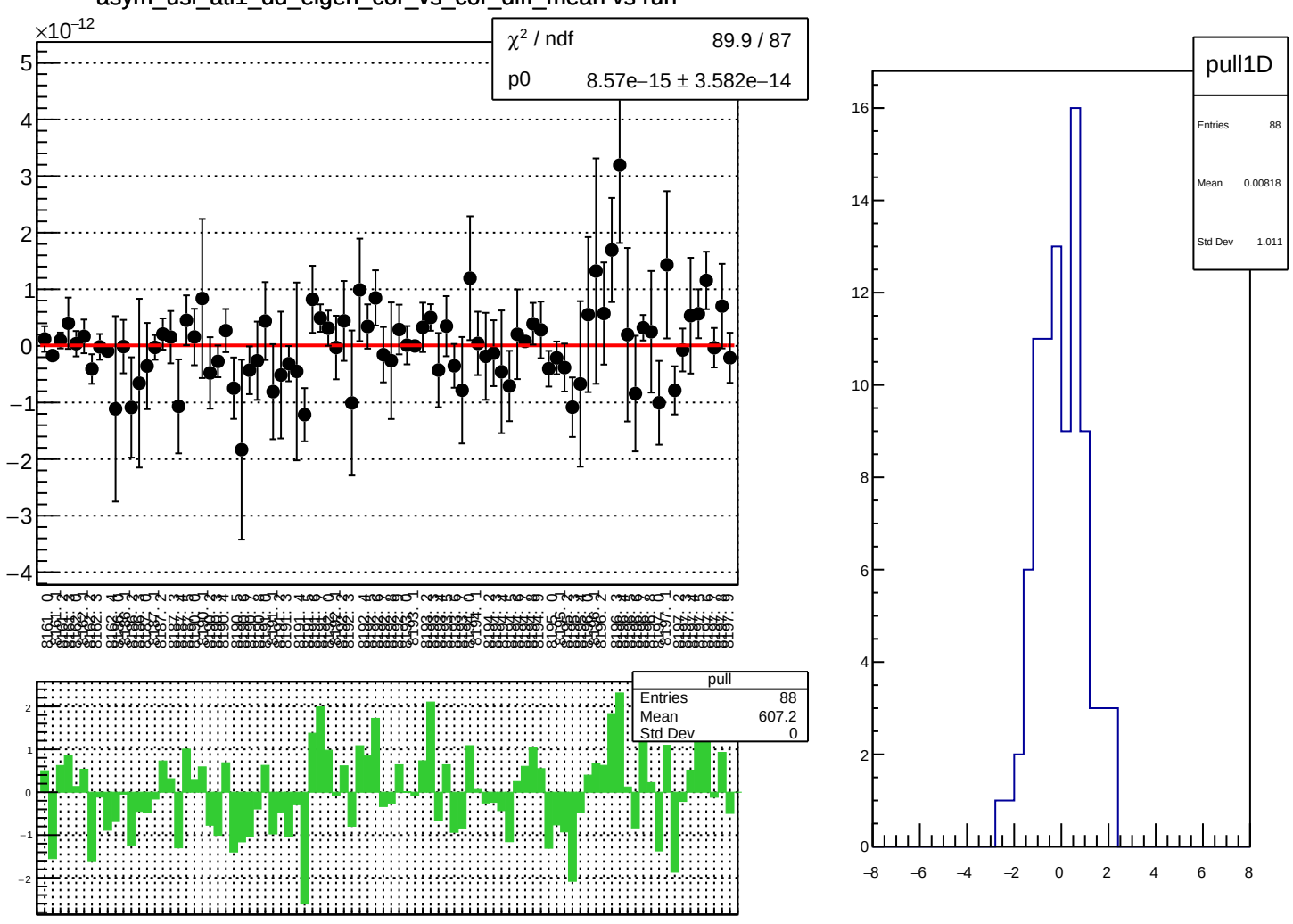

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.707e+04 / 87
p0 0.0008018 ± 6.339e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

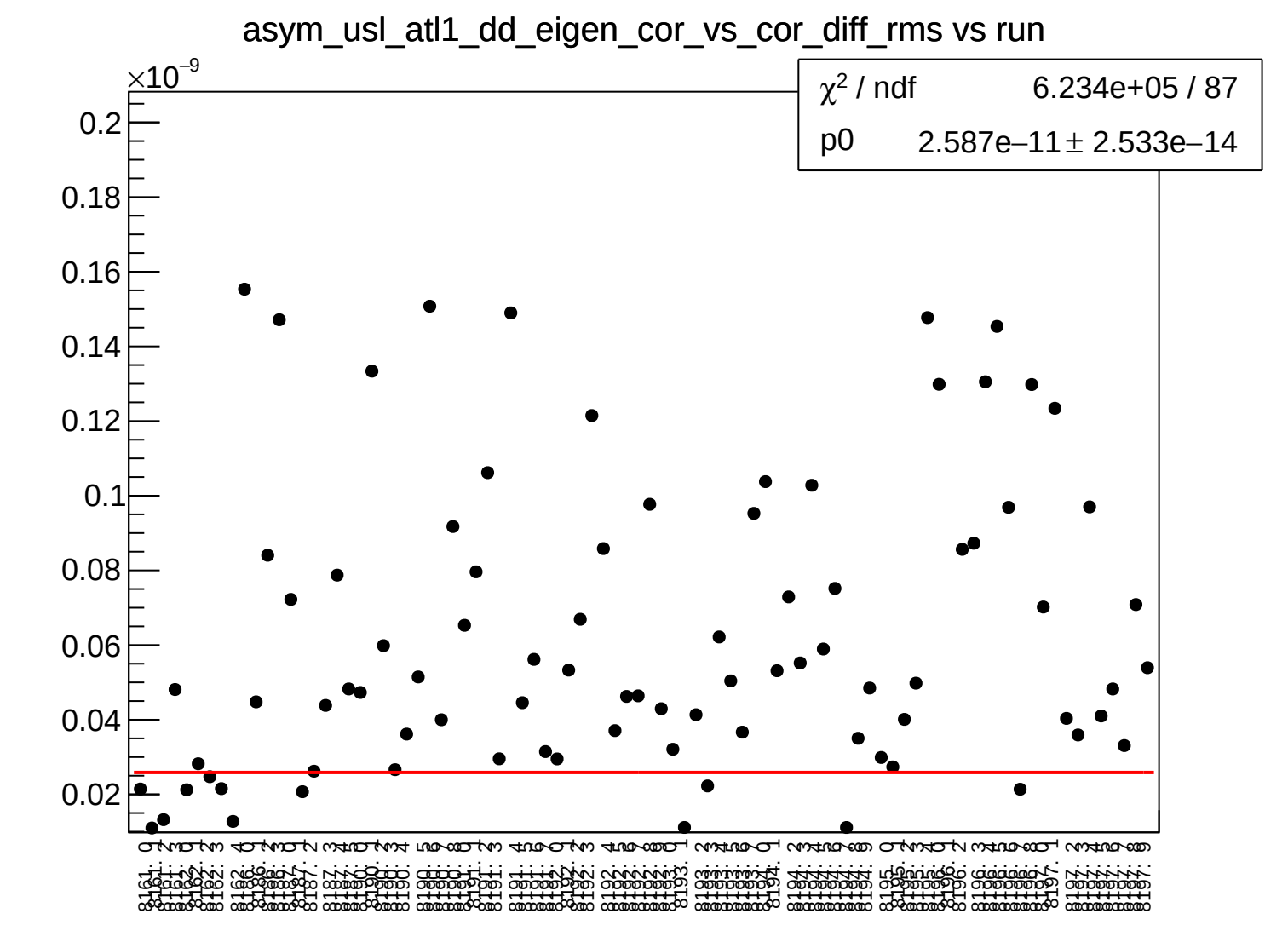

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.96 / 87
p0 −0.1368 ± 0.06011
pull
Entries 88
Mean 51.7
Std Dev 0
pull1D
Entries 88
Mean 0.1456
Std Dev 0.942

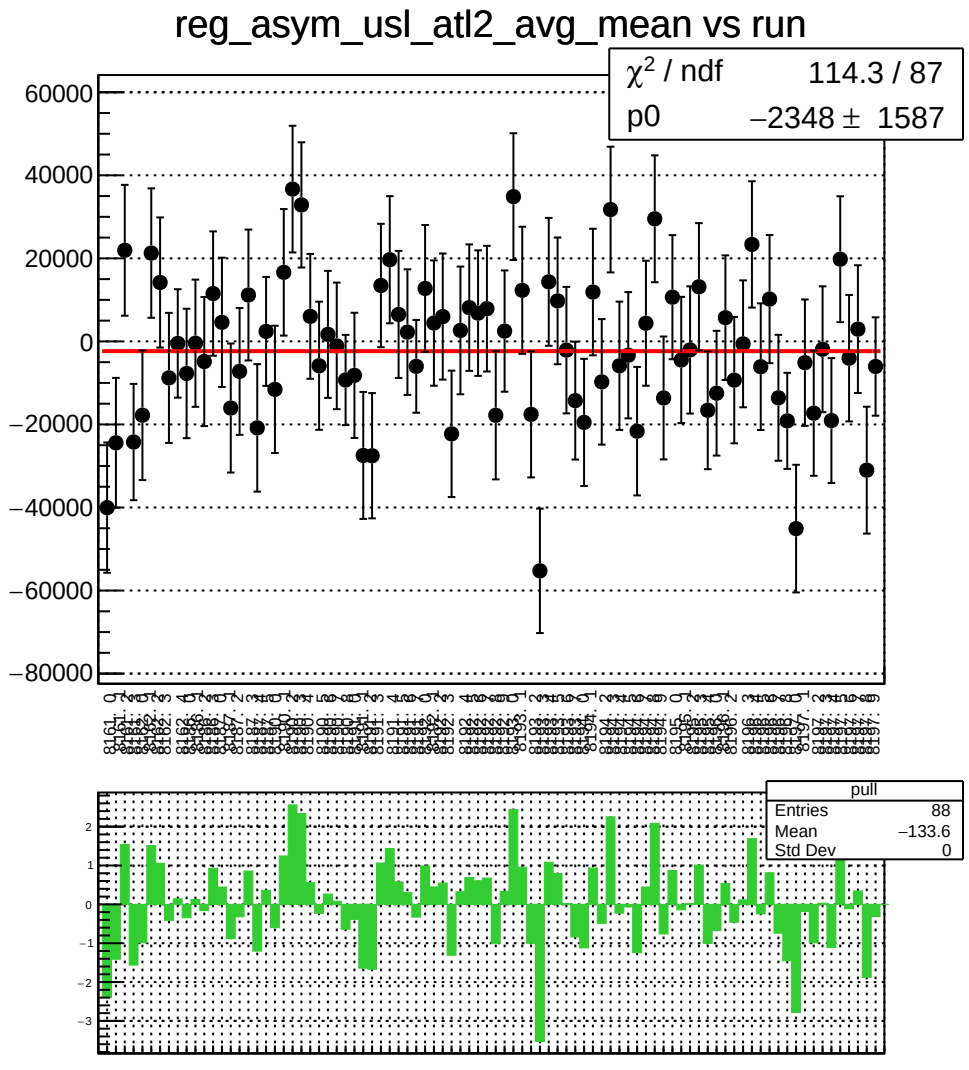

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.175e+05 / 87
p0 47.51 ± 0.0425
160
140
120
100
80
60
40
20

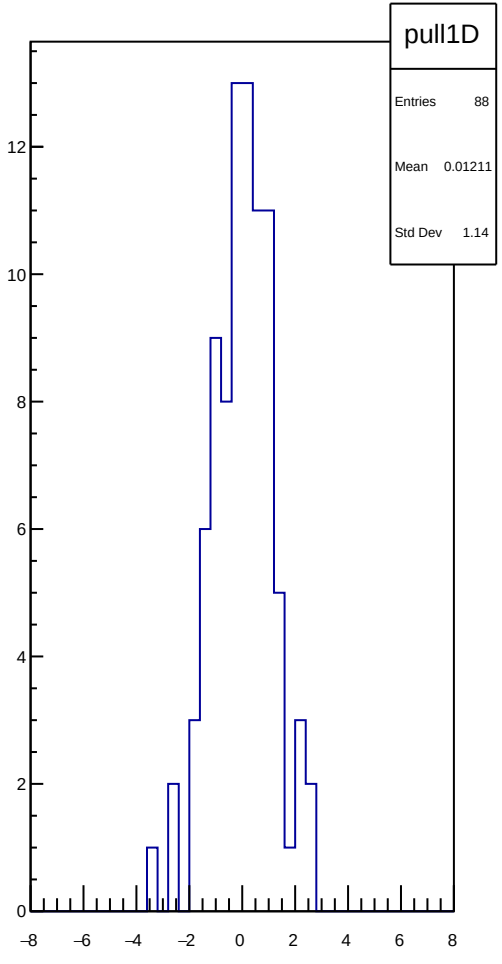

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.96 / 87
p0 −0.1368 ± 0.06011
pull
Entries 88
Mean 51.7
Std Dev 0
pull1D
Entries 88
Mean 0.1456
Std Dev 0.942

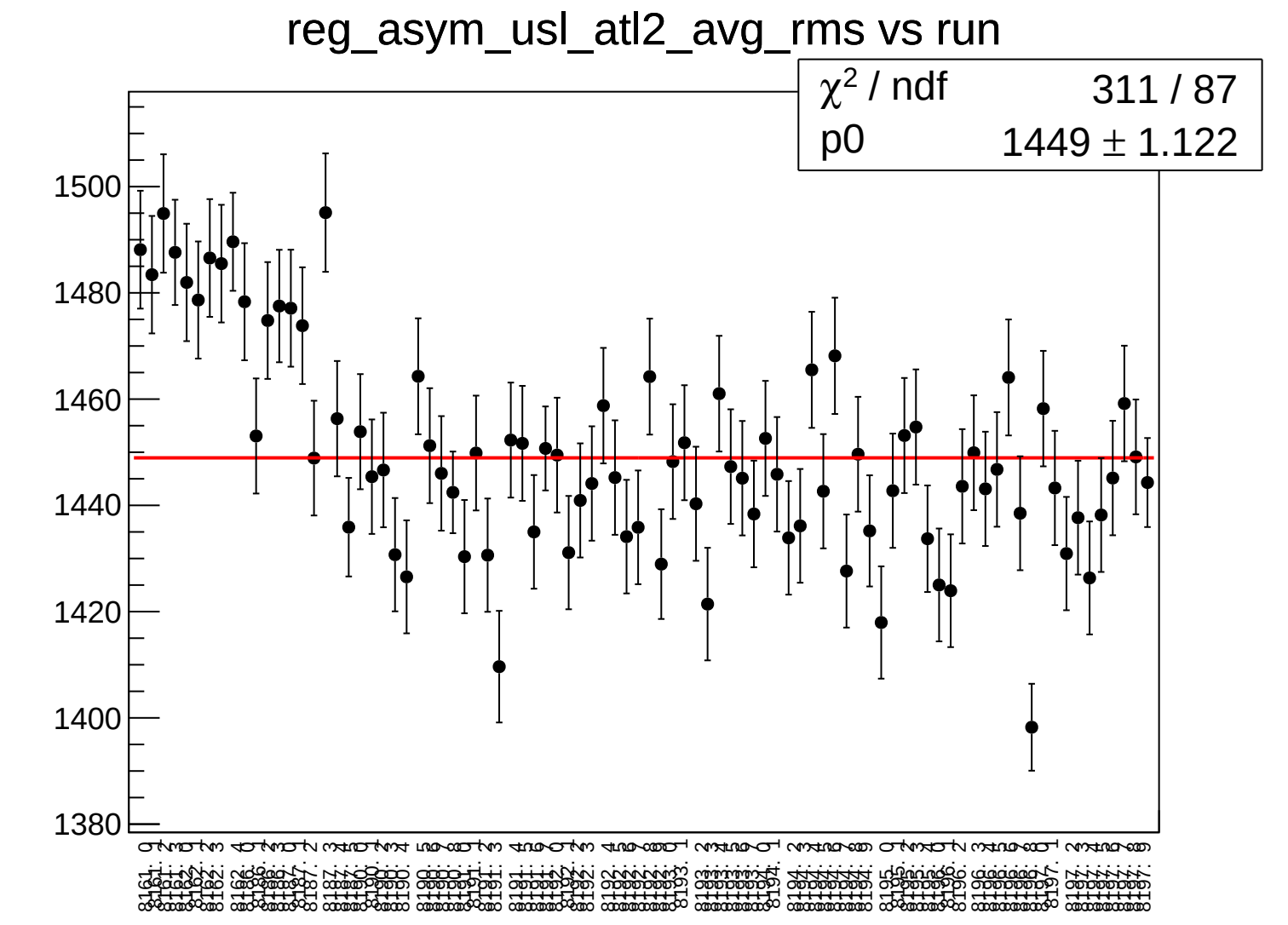

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.175e+05 / 87
p0 47.51 ± 0.0425
160
140
120
100
80
60
40
20

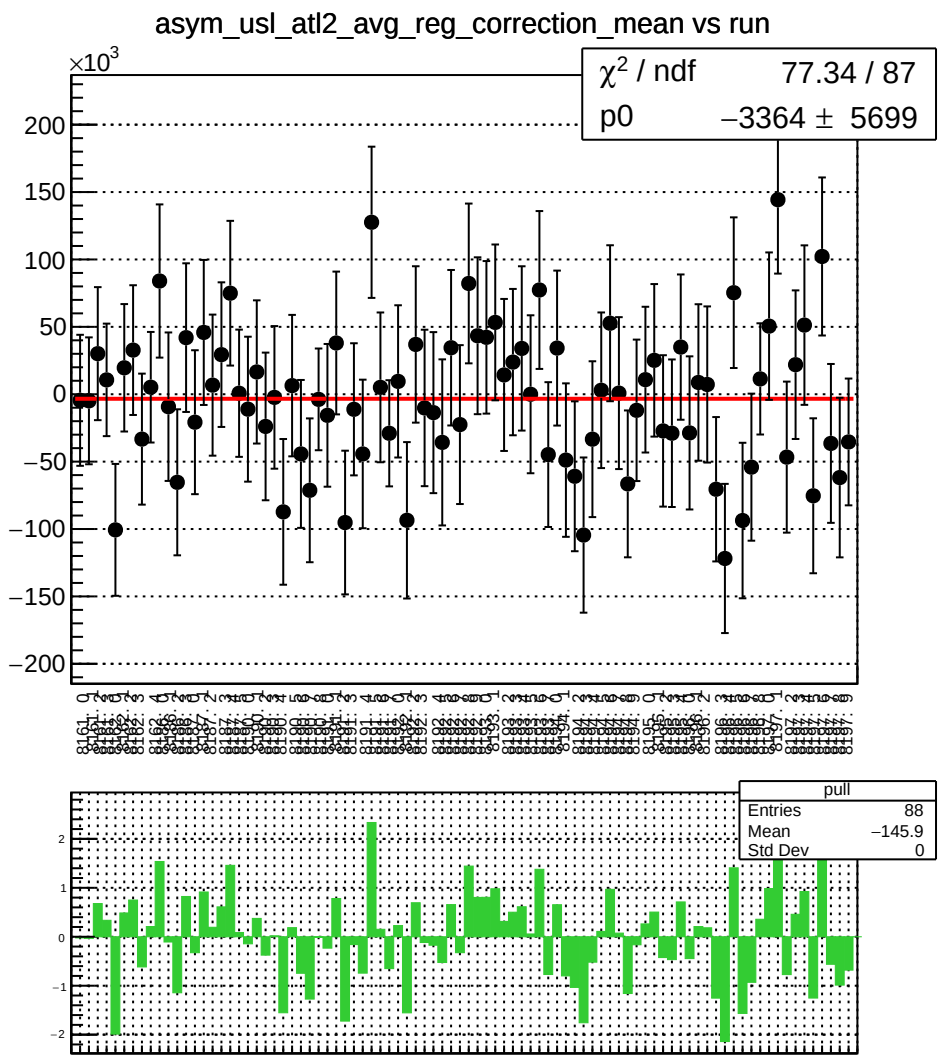

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.9 / 87
p0 8.57e−15 ± 3.582e−14
pull
Entries 88
Mean 607.2
Std Dev 0
pull1D
Entries 88
Mean 0.00818
Std Dev 1.011

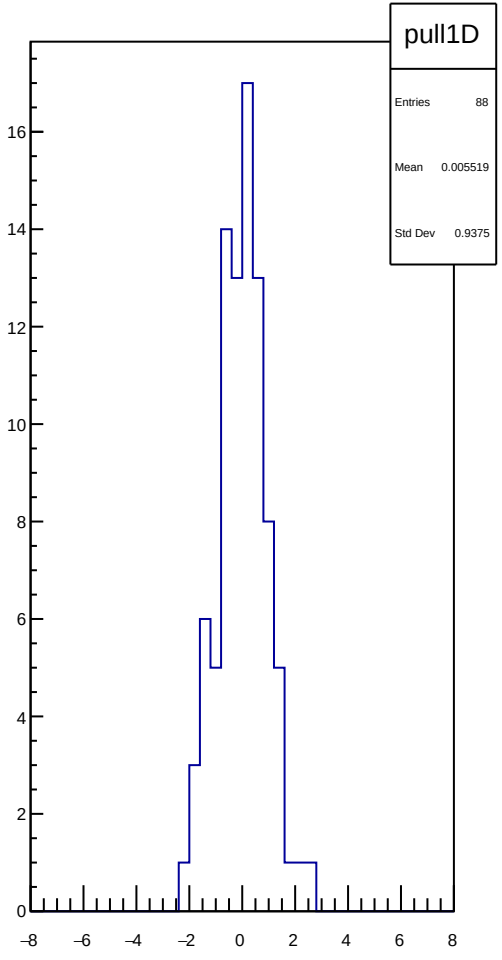

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.234e+05 / 87
p0 2.587e−11 ± 2.533e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

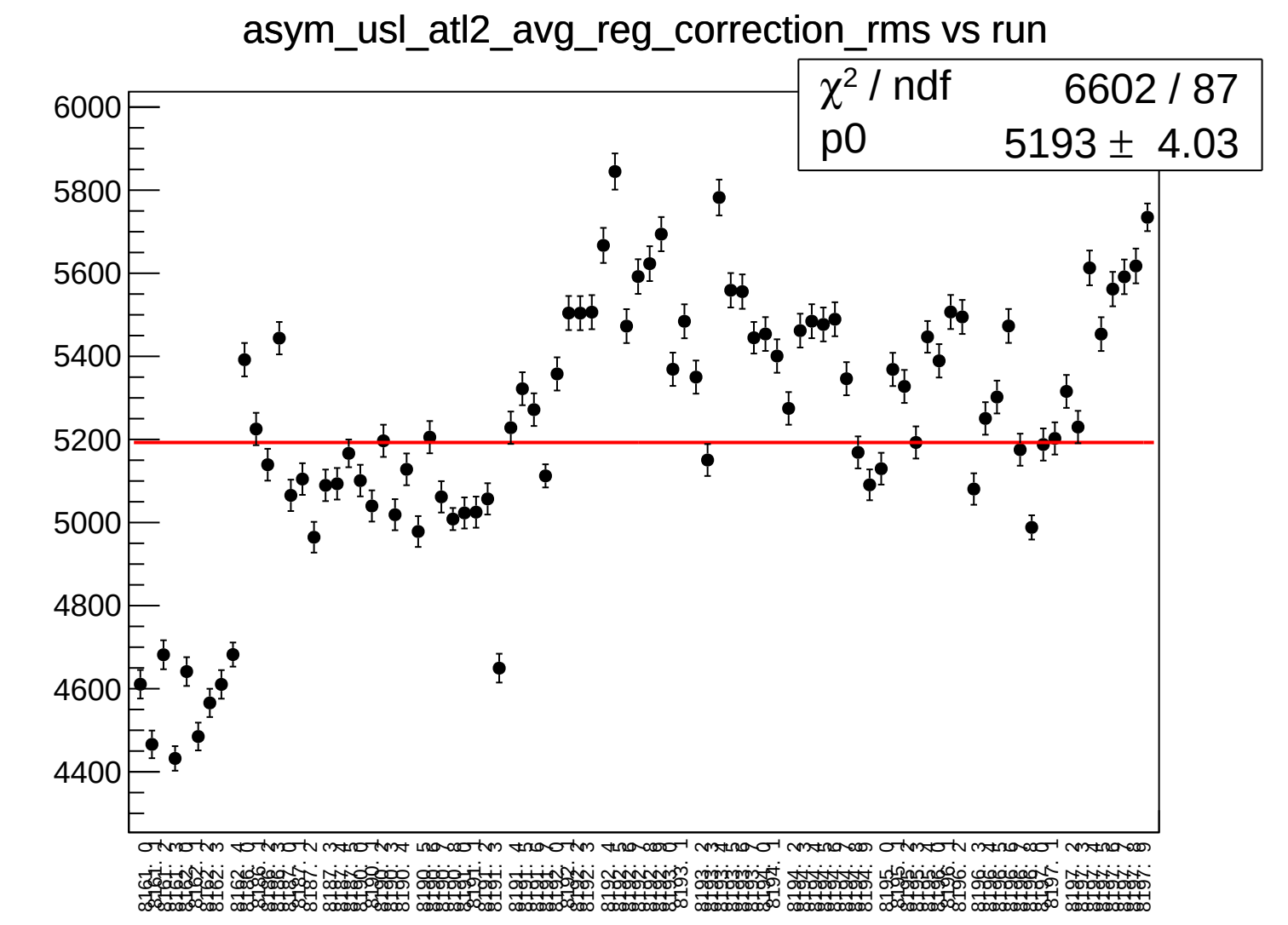

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 114.3 / 87
p0 −2348 ± 1587
pull
Entries 88
Mean −133.6
Std Dev 0

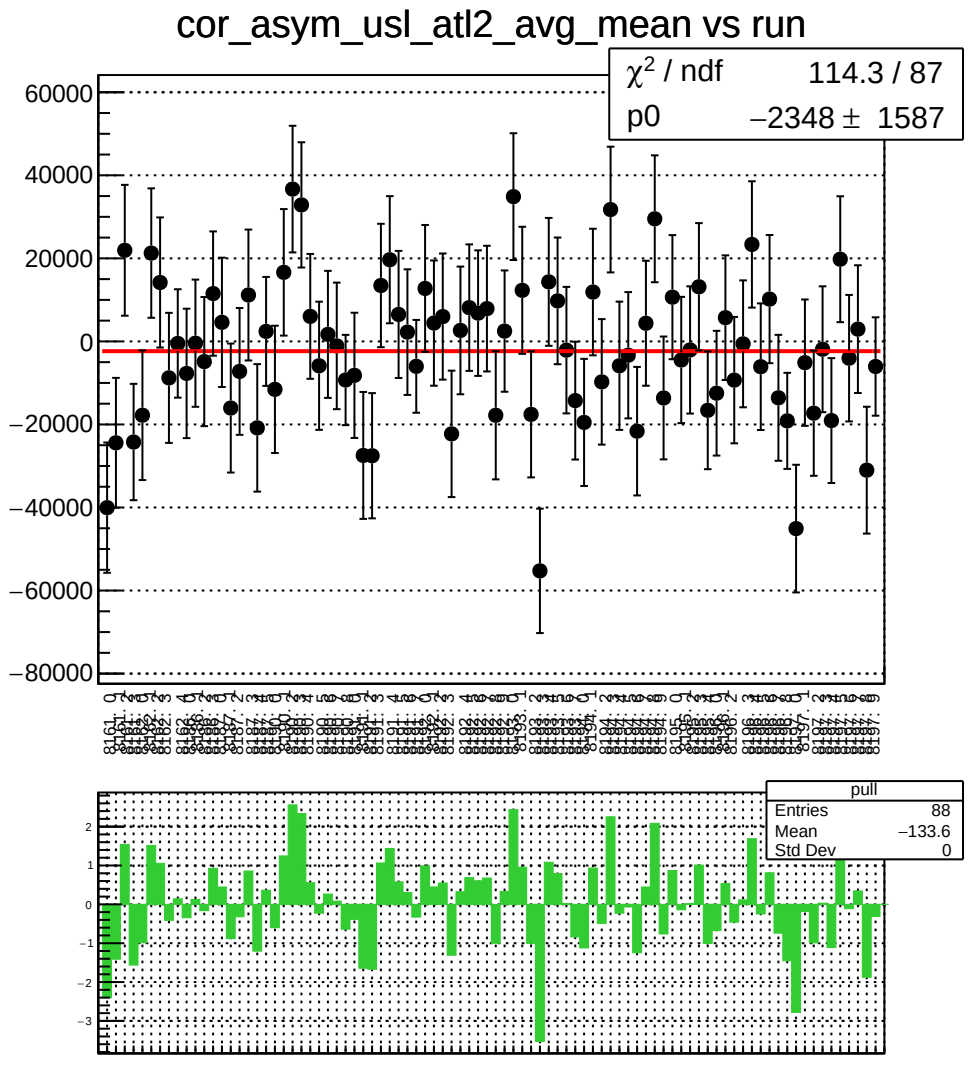

pull1D
Entries 88
Mean 0.01211
Std Dev 1.14

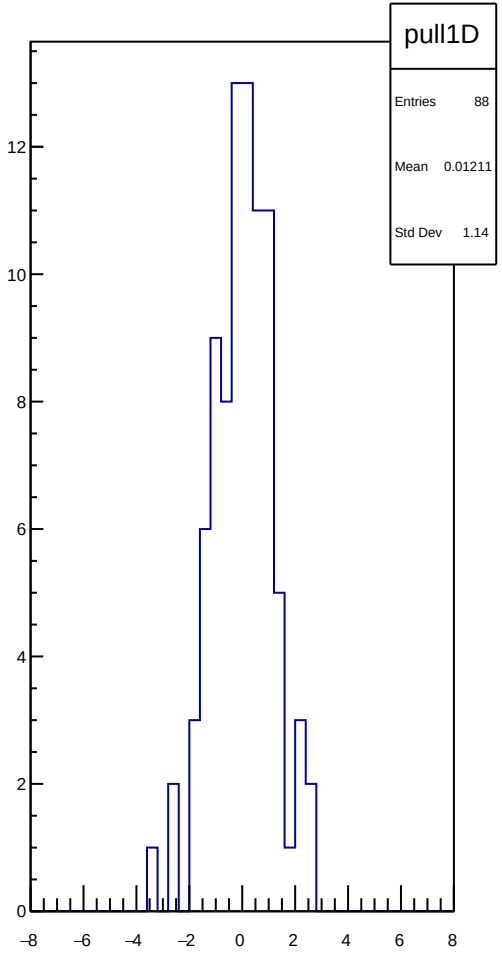

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 311 / 87
p0 1449 ± 1.122
1500
1480
1460
1440
1420
1400
1380

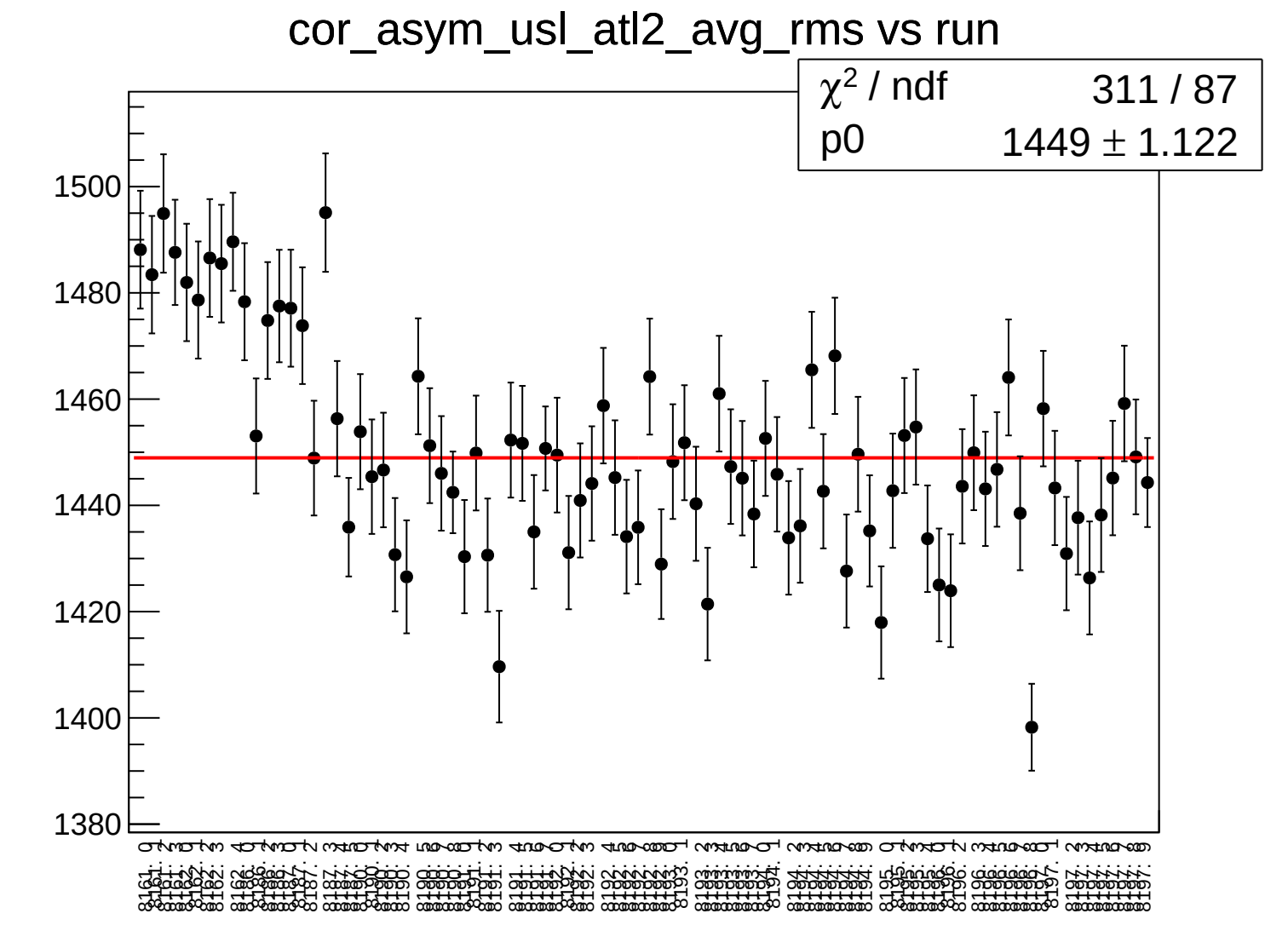

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 77.34 / 87
p0 −3364 ± 5699
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −145.9
Std Dev 0
2
1
0
−1
−2

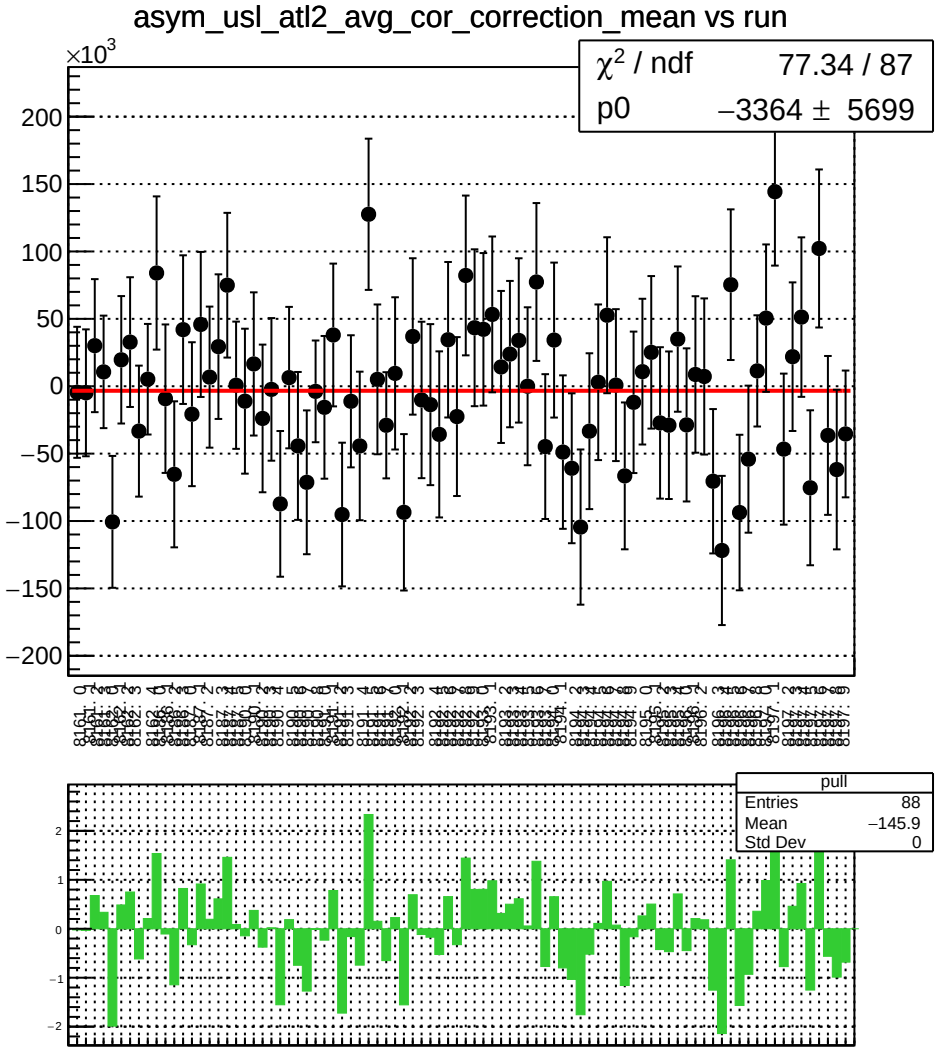

pull1D
Entries 88
Mean 0.005519
Std Dev 0.9375
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

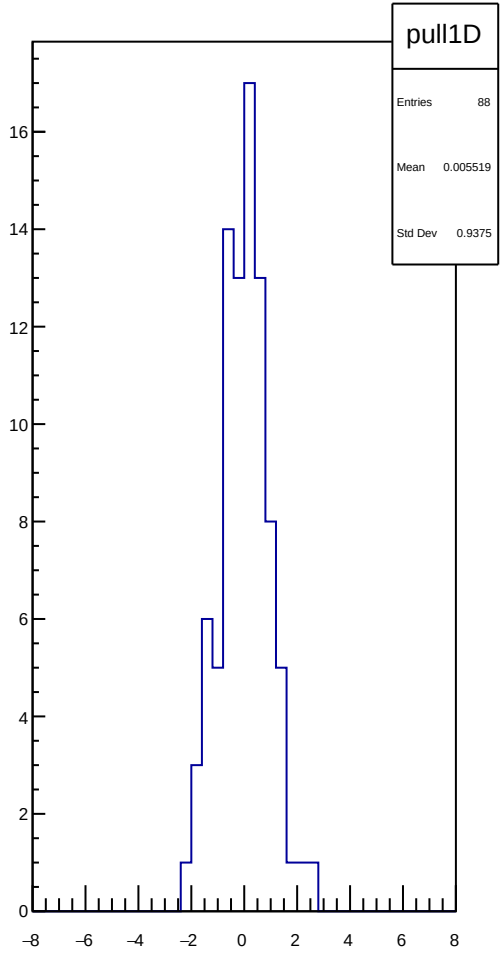

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 6602 / 87
p0 5193 ± 4.03
6000
5800
5600
5400
5200
5000
4800
4600
4400

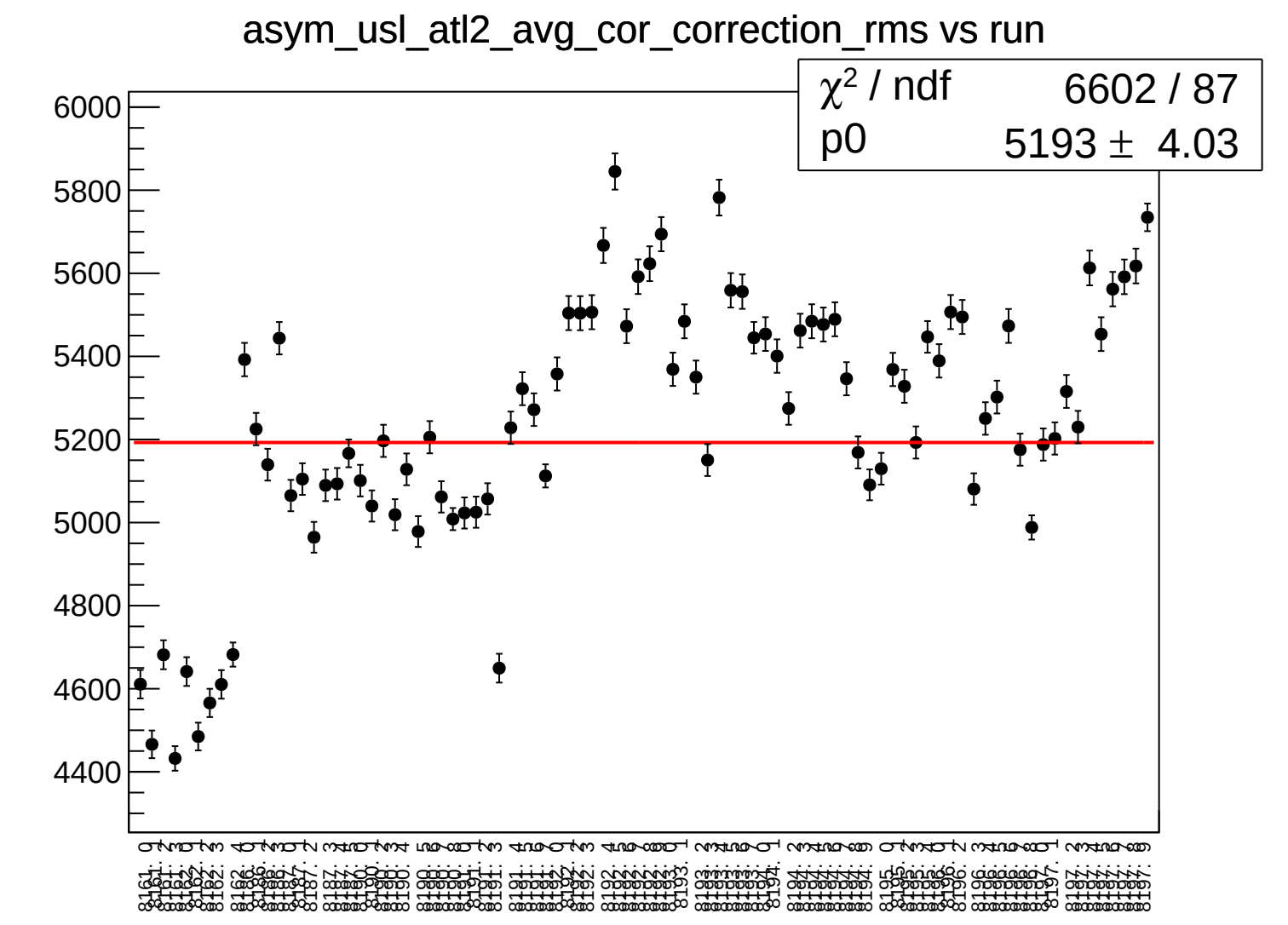

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 114.3 / 87
p0 −2348 ± 1587
pull
Entries 88
Mean −133.6
Std Dev 0

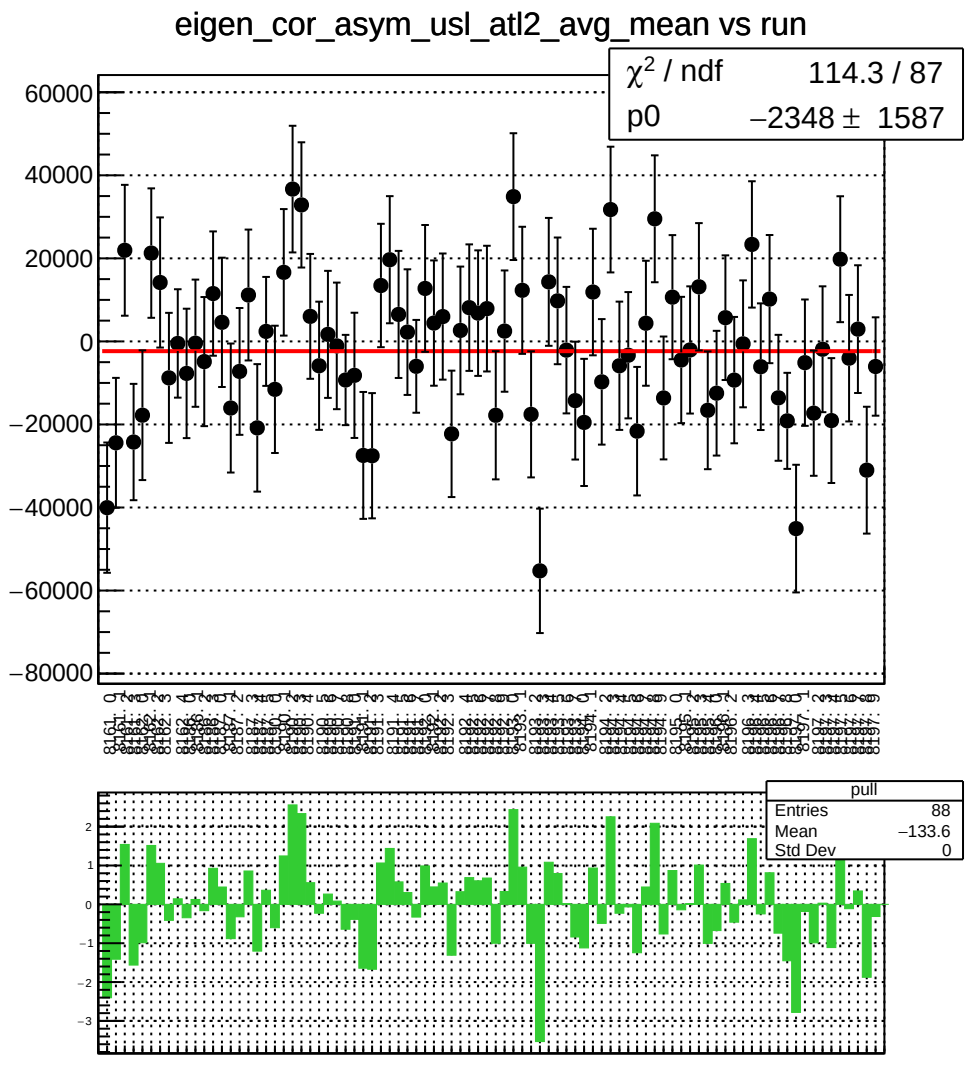

pull1D
Entries 88
Mean 0.01211
Std Dev 1.14

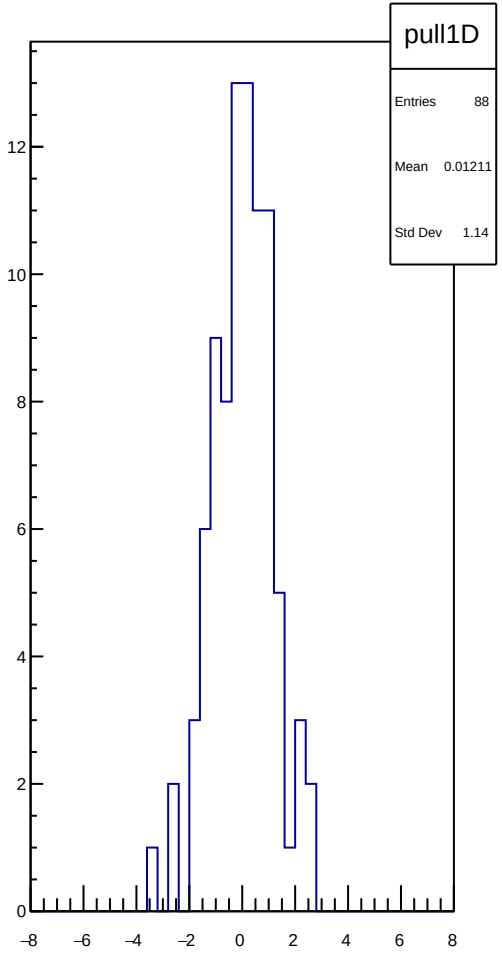

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 311 / 87
p0 1449 ± 1.122
1500
1480
1460
1440
1420
1400
1380

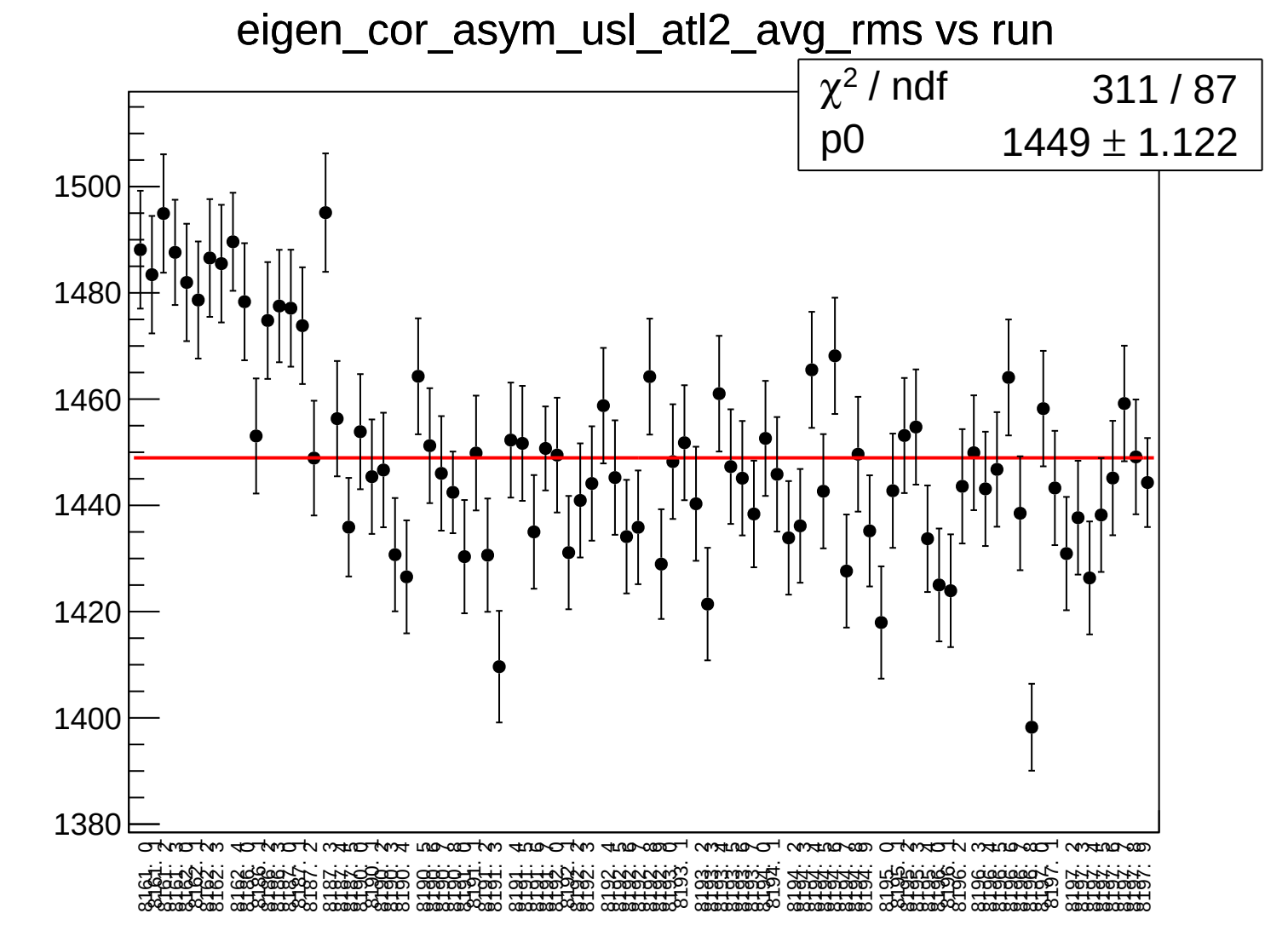

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 77.34 / 87
p0 −3364 ± 5699
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −145.9
Std Dev 0
2
1
0
−1
−2

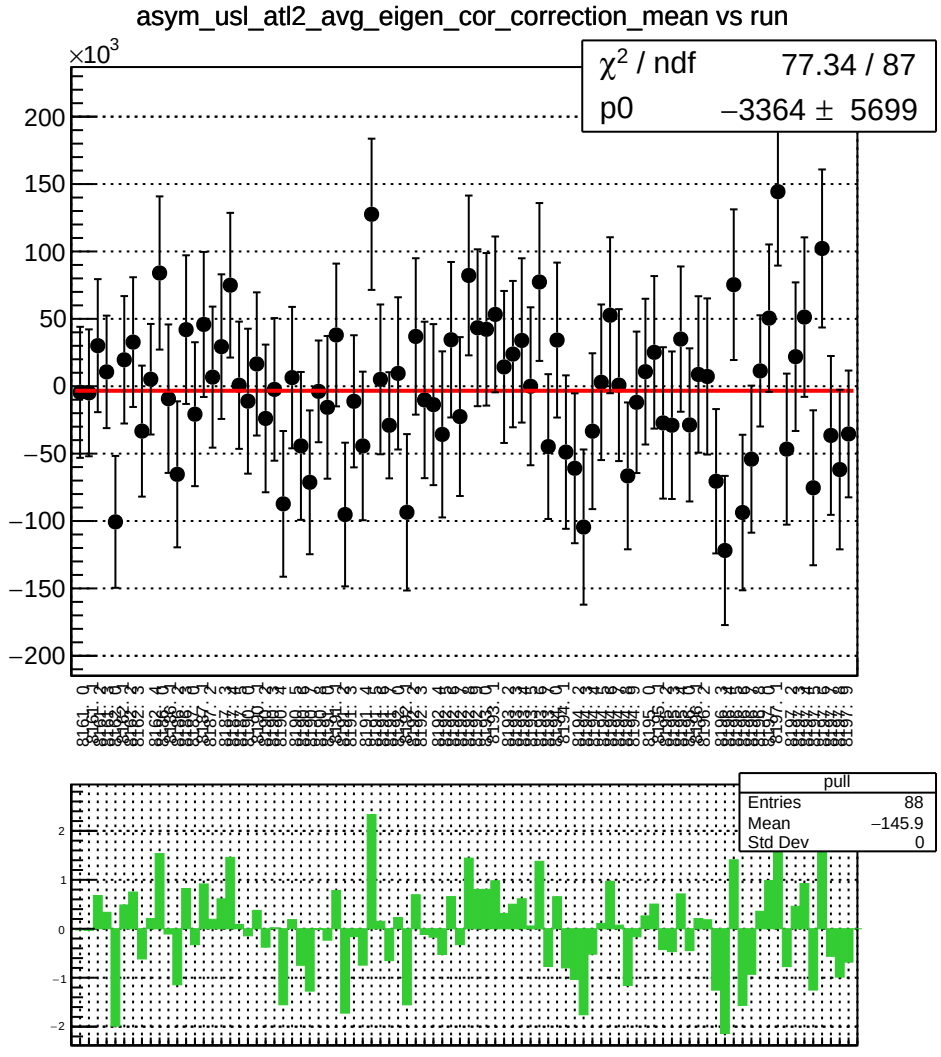

pull1D
Entries 88
Mean 0.005519
Std Dev 0.9375
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

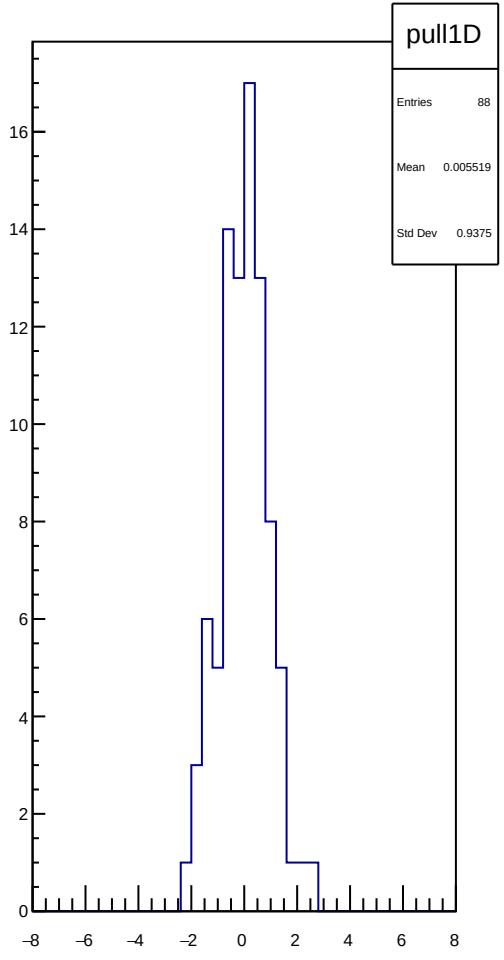

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 6602 / 87
p0 5193 ± 4.03
6000
5800
5600
5400
5200
5000
4800
4600
4400

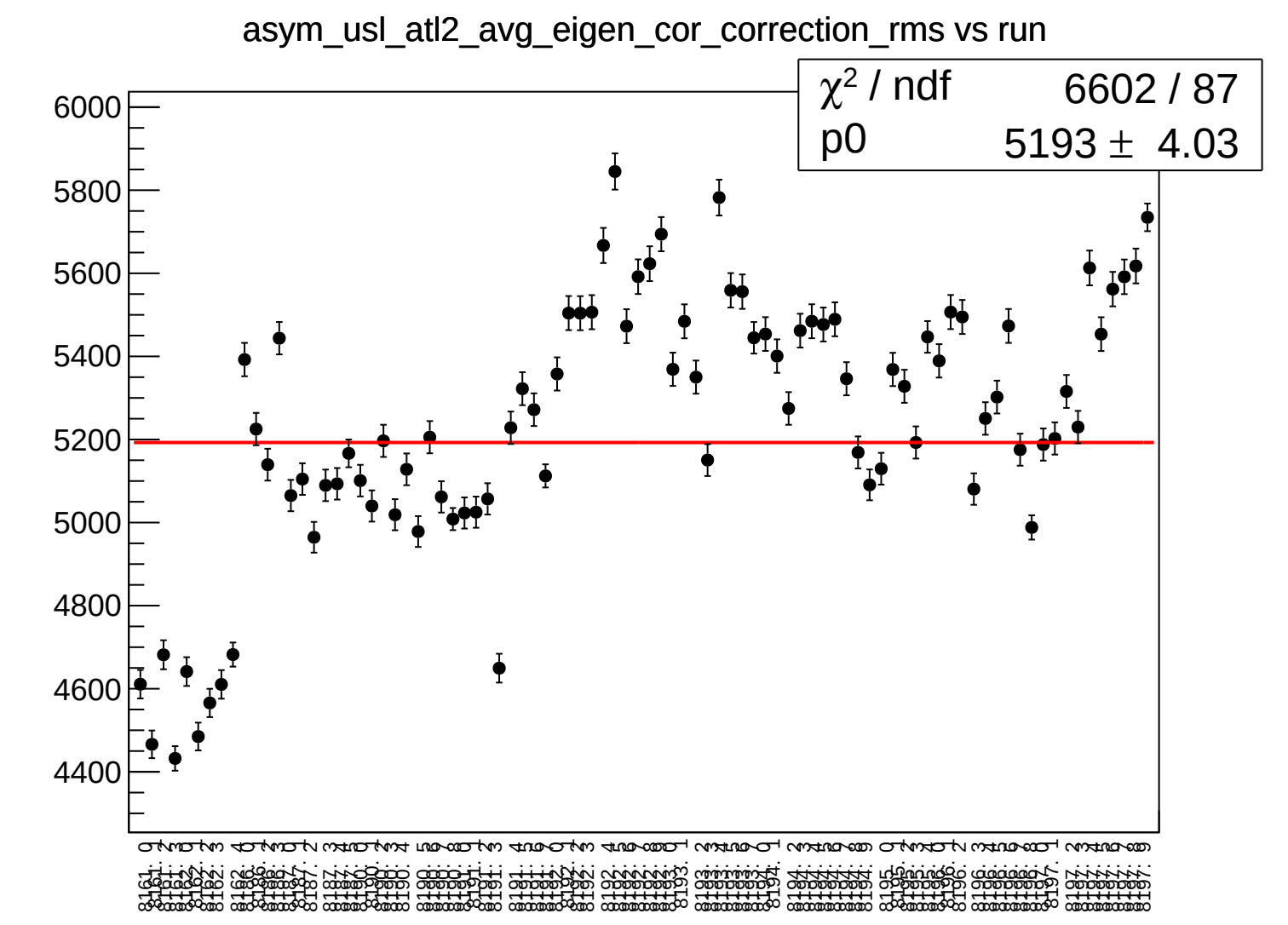

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 114.3 / 87
p0 −2348 ± 1587
pull
Entries 88
Mean −133.6
Std Dev 0

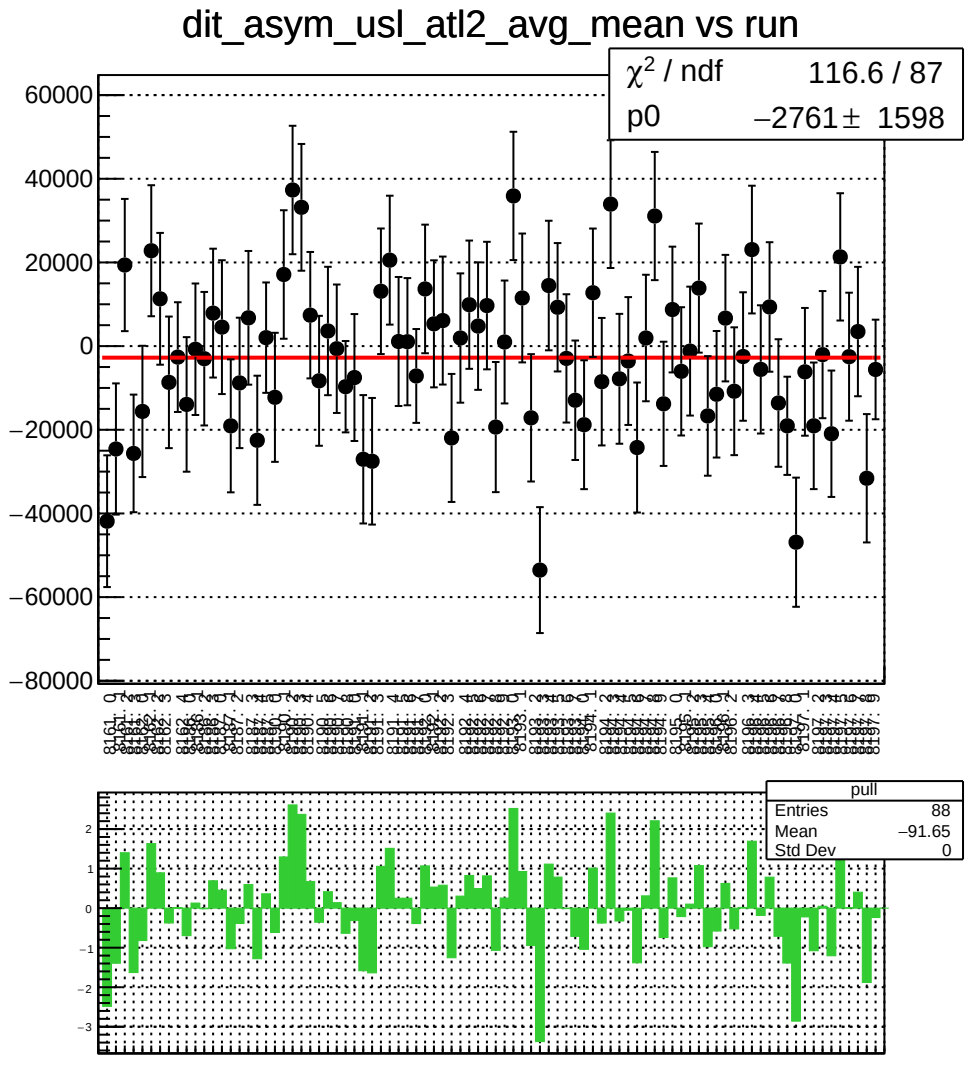

pull1D
Entries 88
Mean 0.01211
Std Dev 1.14

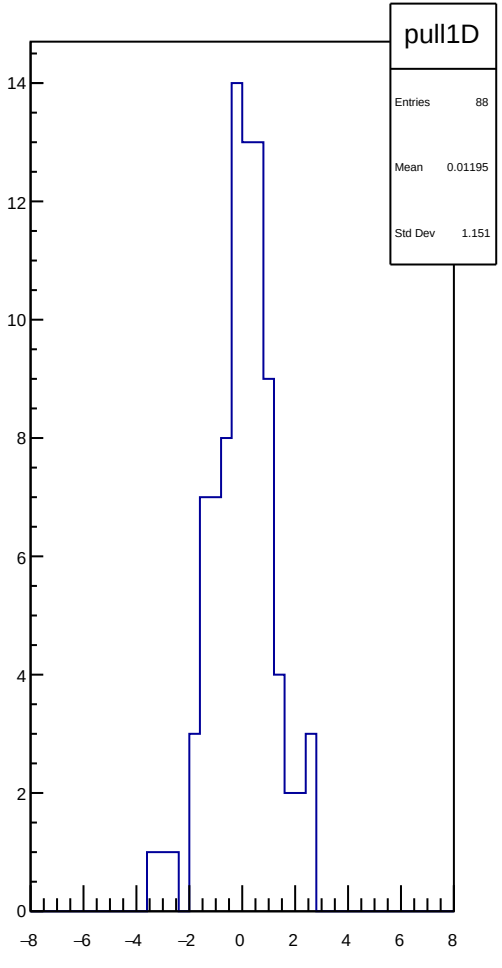

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 311 / 87
p0 1449 ± 1.122
1500
1480
1460
1440
1420
1400
1380

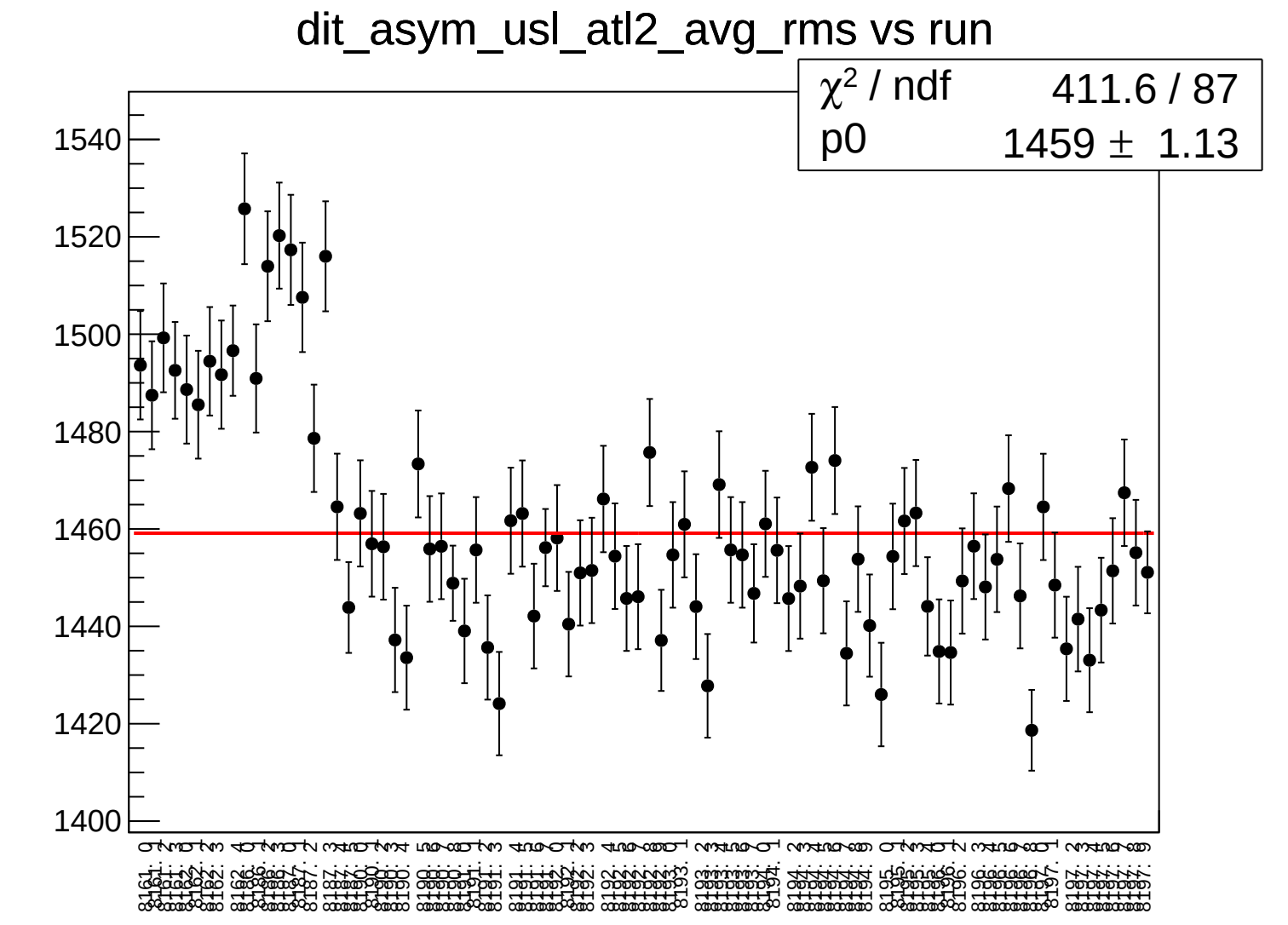

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 77.34 / 87
p0 −3364 ± 5699
pull
Entries 88
Mean −145.9
Std Dev 0

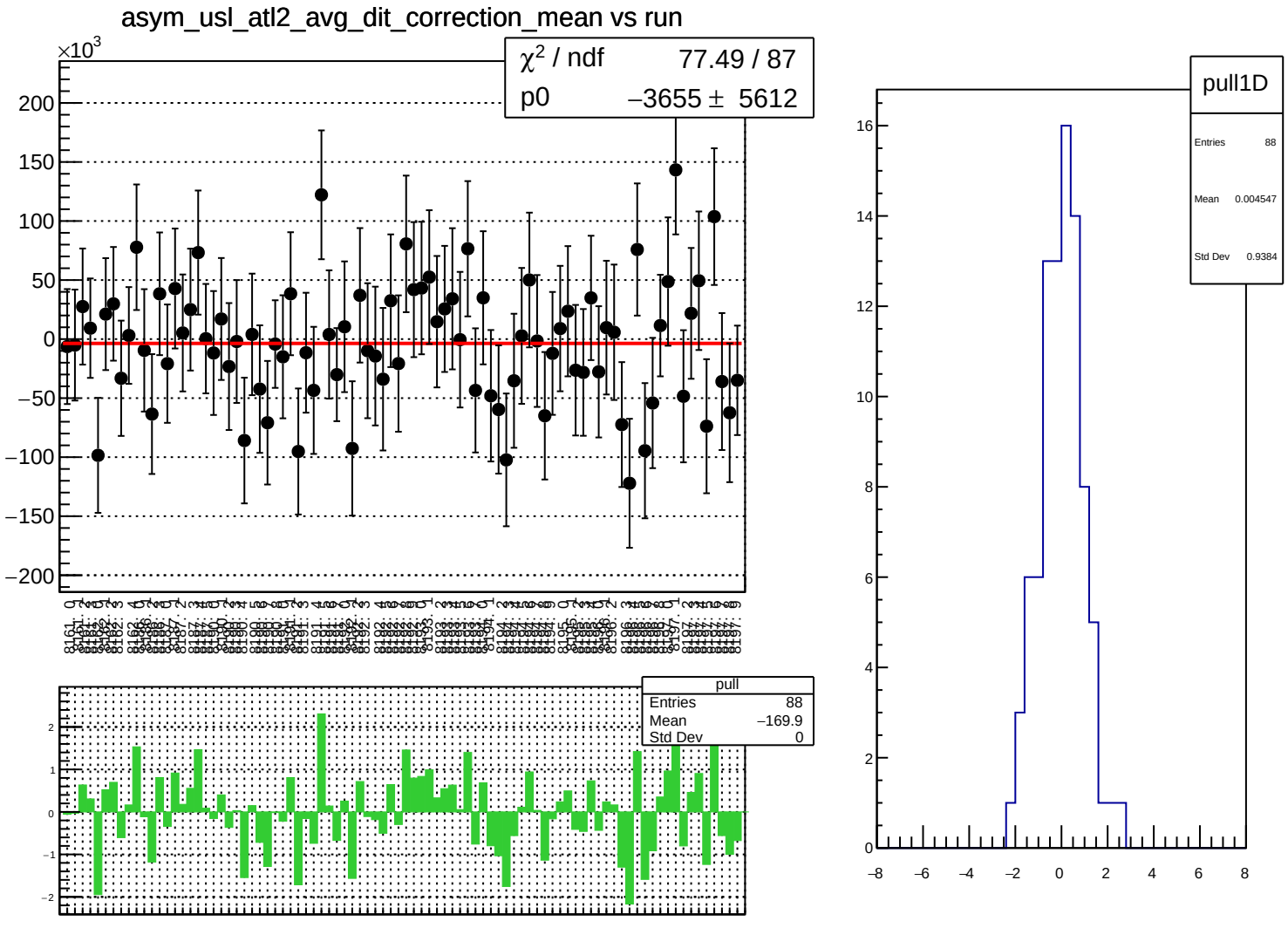

pull1D
Entries 88
Mean 0.005519
Std Dev 0.9375

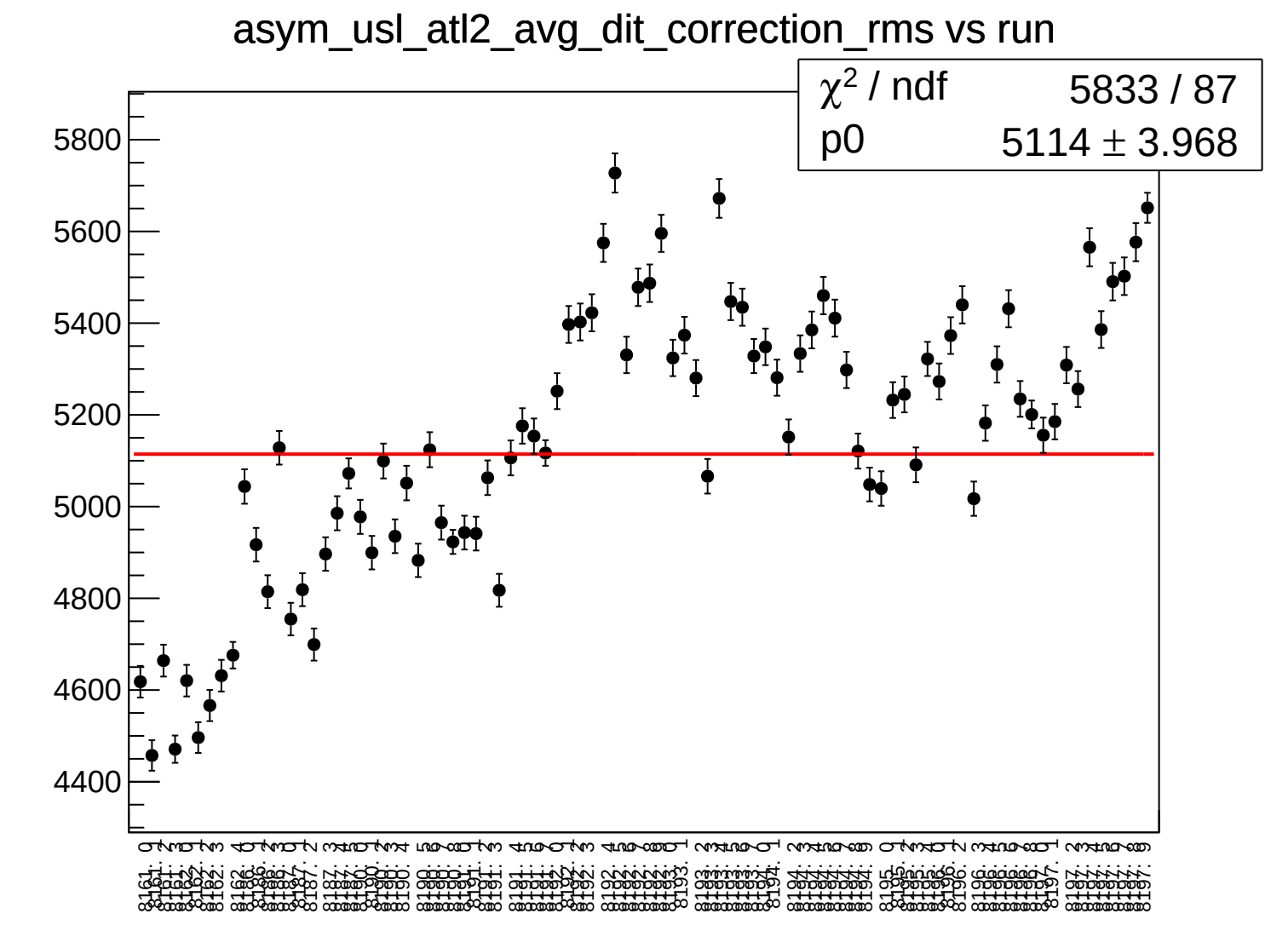

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6602 / 87
p0 5193 ± 4.03
6000
5800
5600
5400
5200
5000
4800
4600
4400

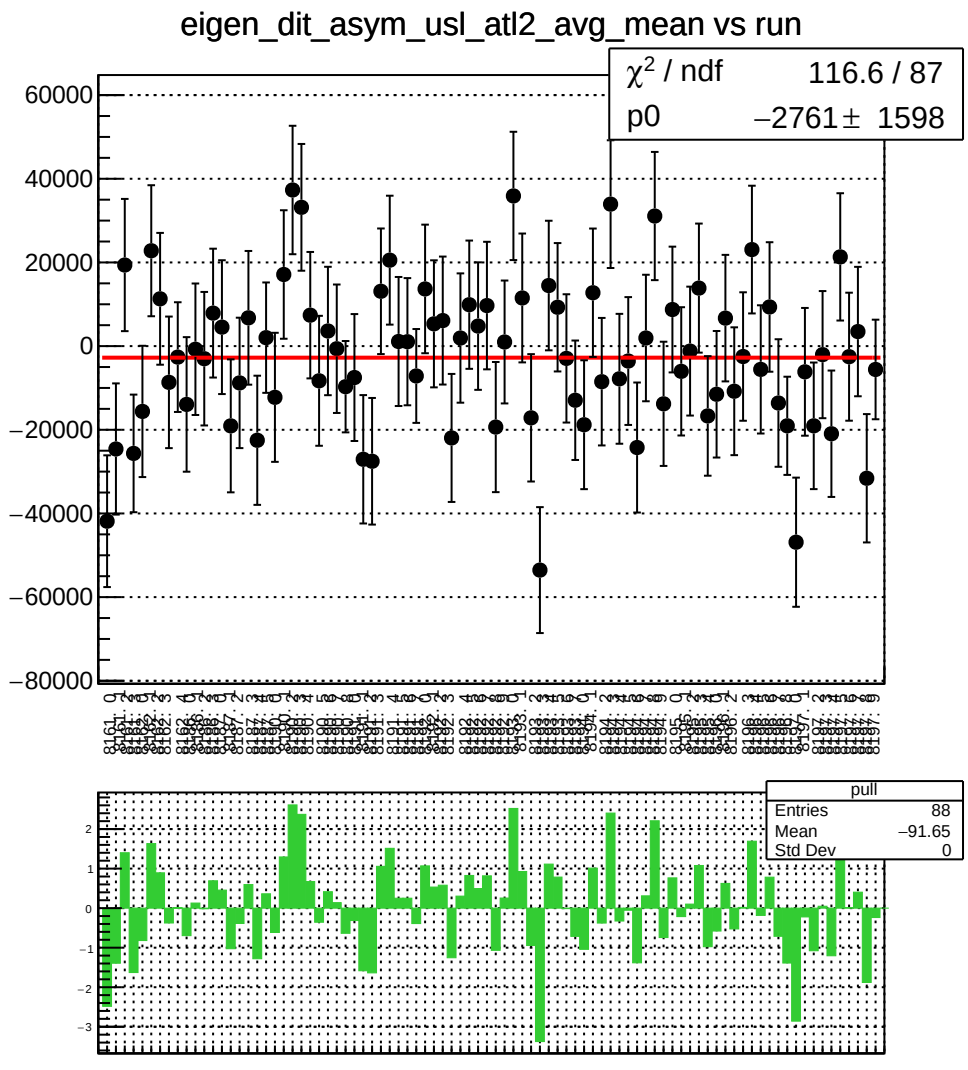

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 116.6 / 87
p0 −2761 ± 1598
pull
Entries 88
Mean −91.65
Std Dev 0

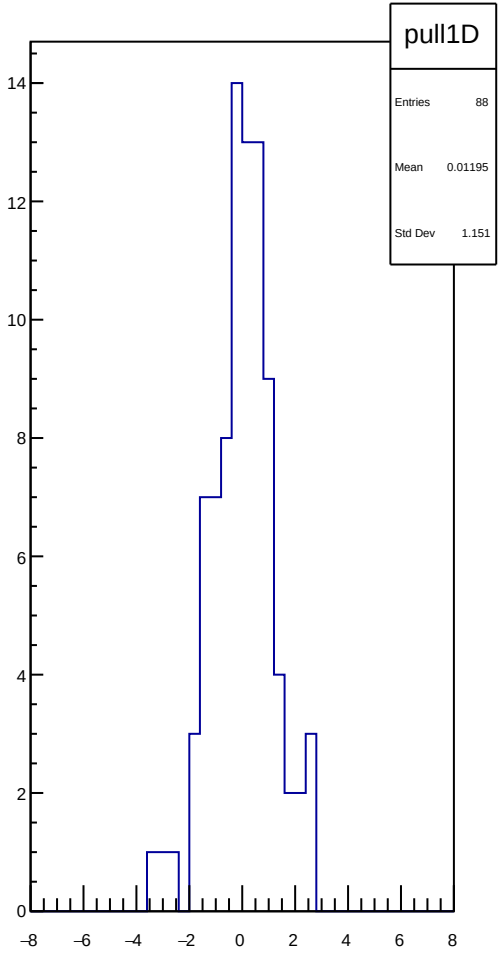

pull1D
Entries 88
Mean 0.01195
Std Dev 1.151

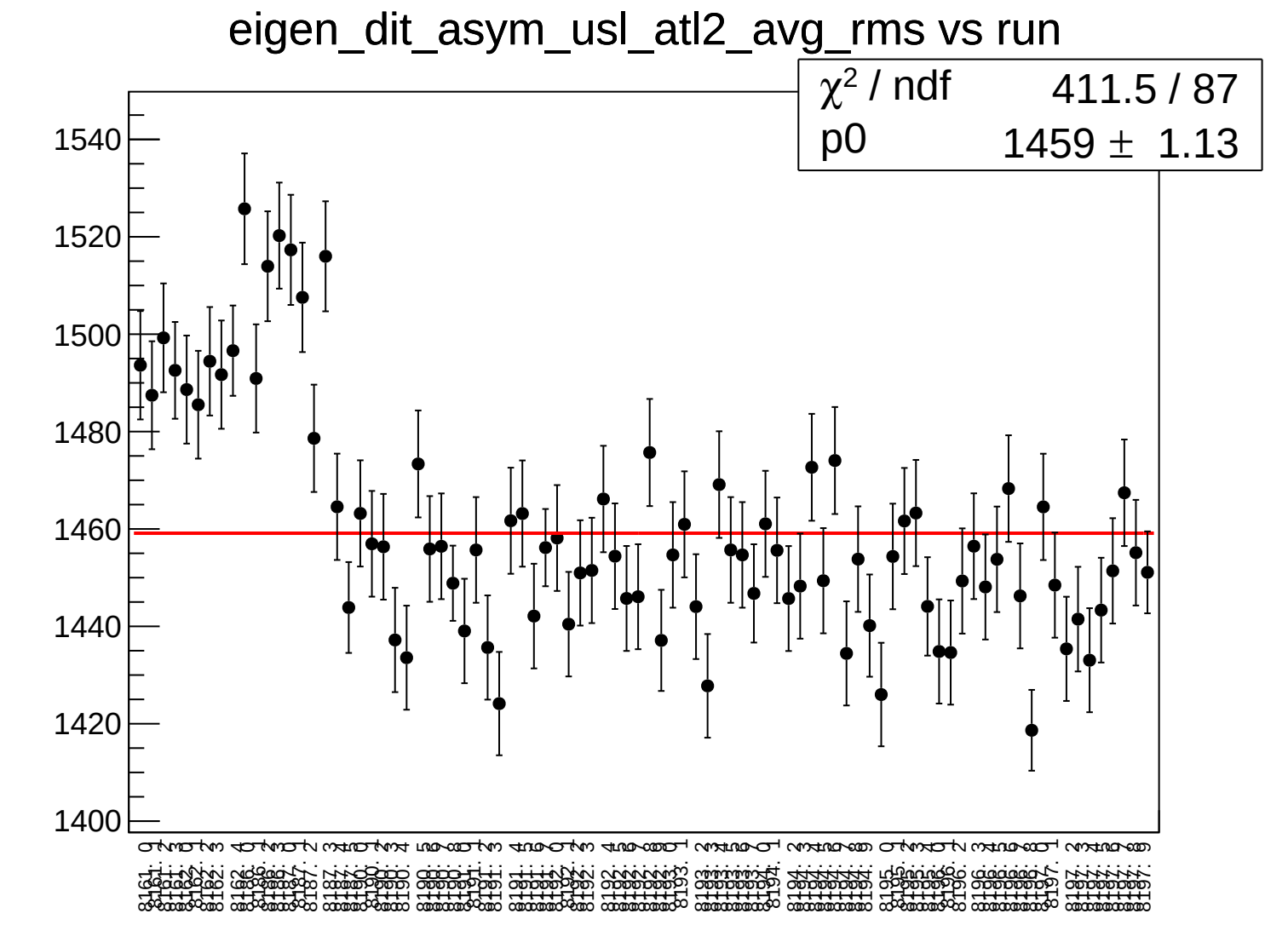

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 411.6 / 87
p0 1459 ± 1.13
1540
1520
1500
1480
1460
1440
1420
1400

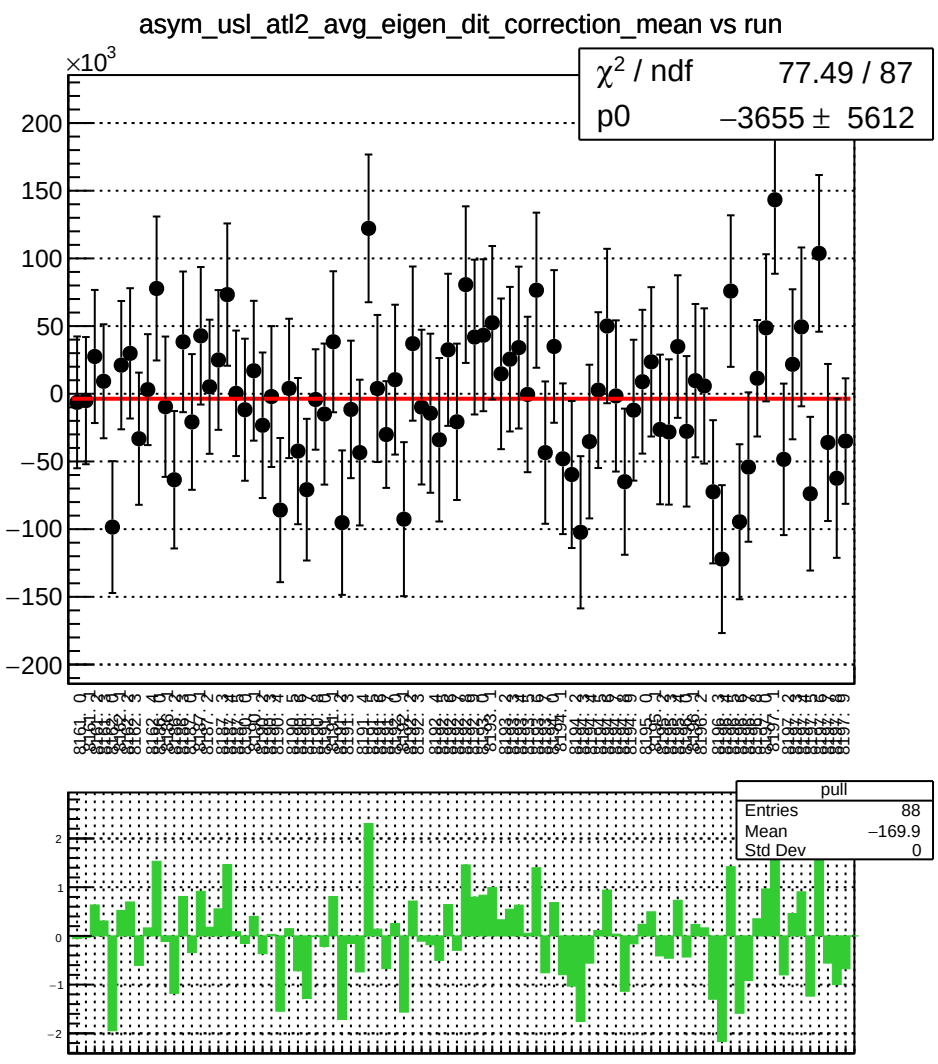

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 77.49 / 87
p0 −3655 ± 5612
pull
Entries 88
Mean −169.9
Std Dev 0
pull1D
Entries 88
Mean 0.004547
Std Dev 0.9384

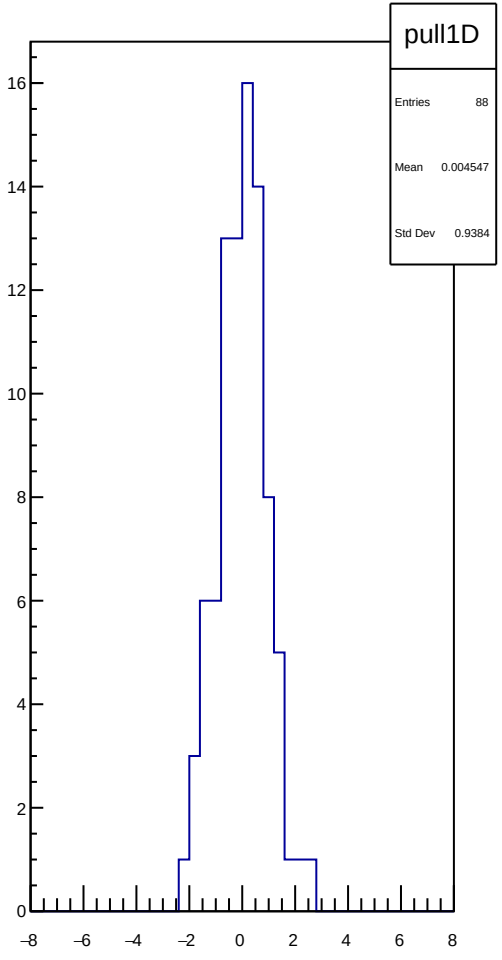

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 5833 / 87
p0 5114 ± 3.968
5800
5600
5400
5200
5000
4800
4600
4400

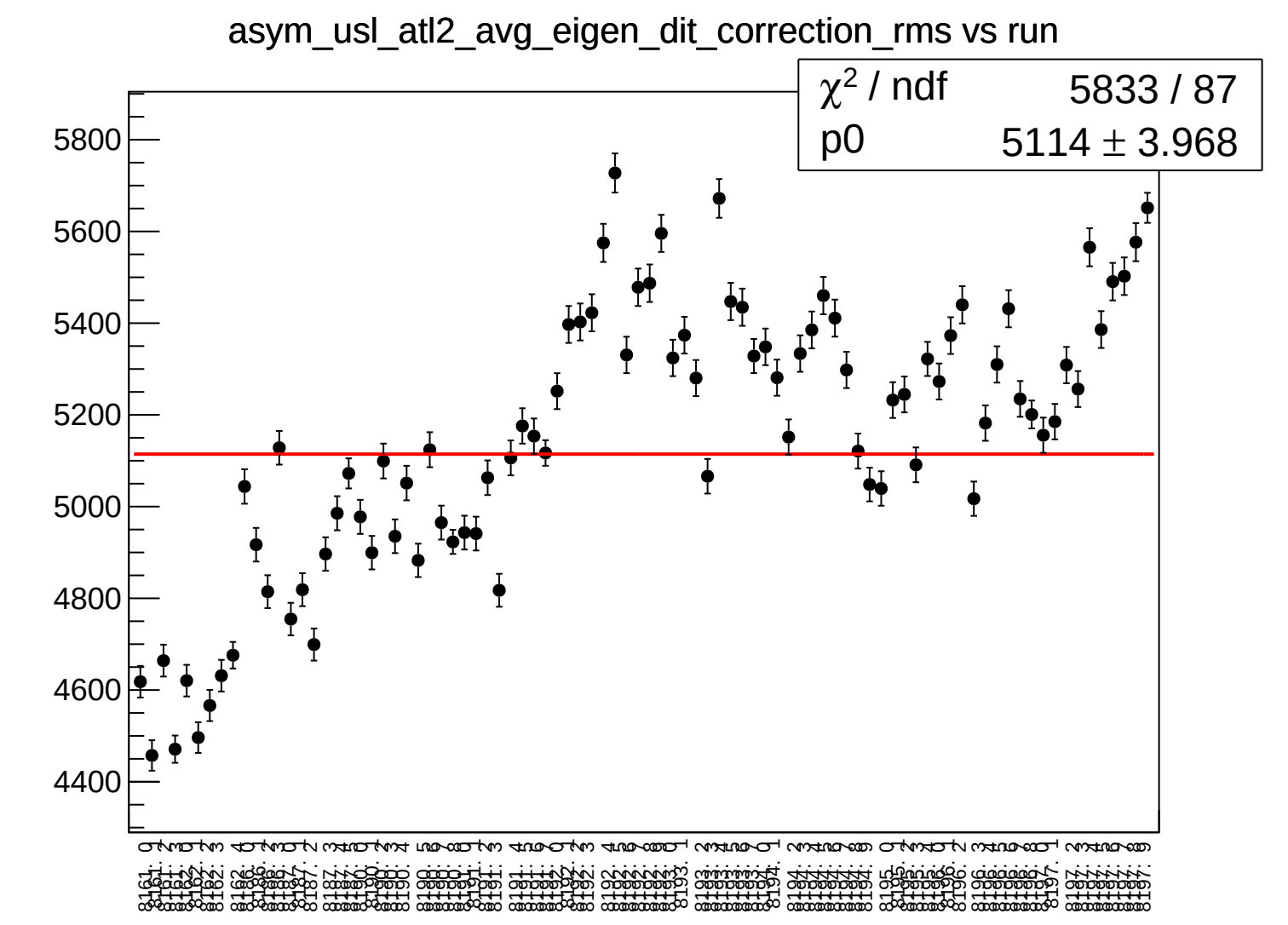

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 116.6 / 87
p0 −2761 ± 1598
pull
Entries 88
Mean −91.65
Std Dev 0

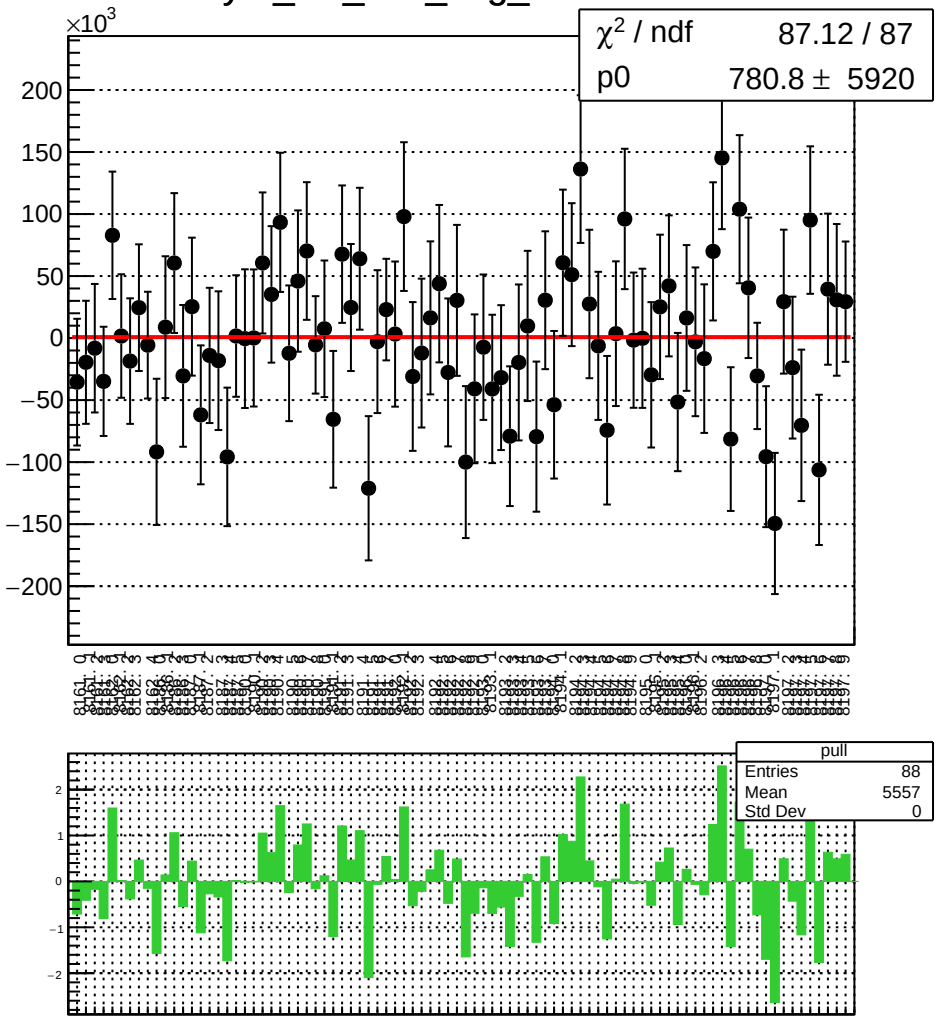

pull1D
Entries 88
Mean 0.01195
Std Dev 1.151

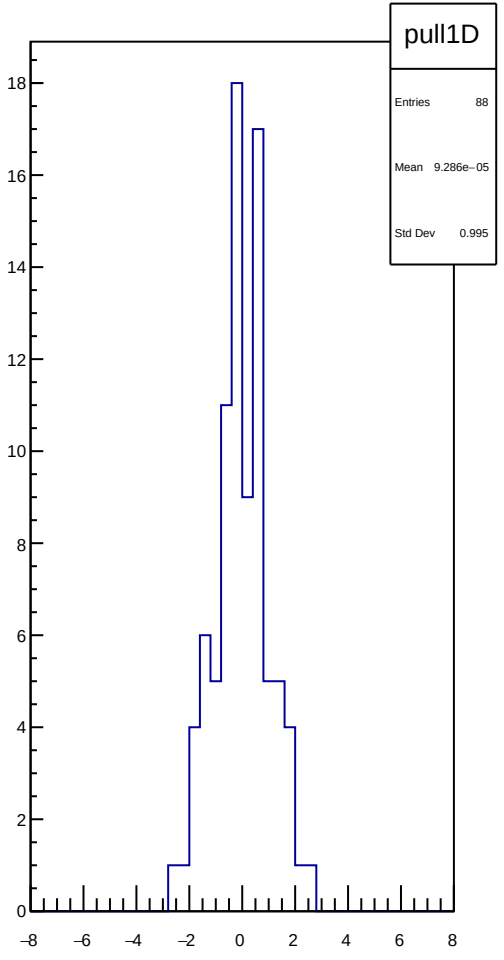

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 411.5 / 87
p0 1459 ± 1.13
1540
1520
1500
1480
1460
1440
1420
1400

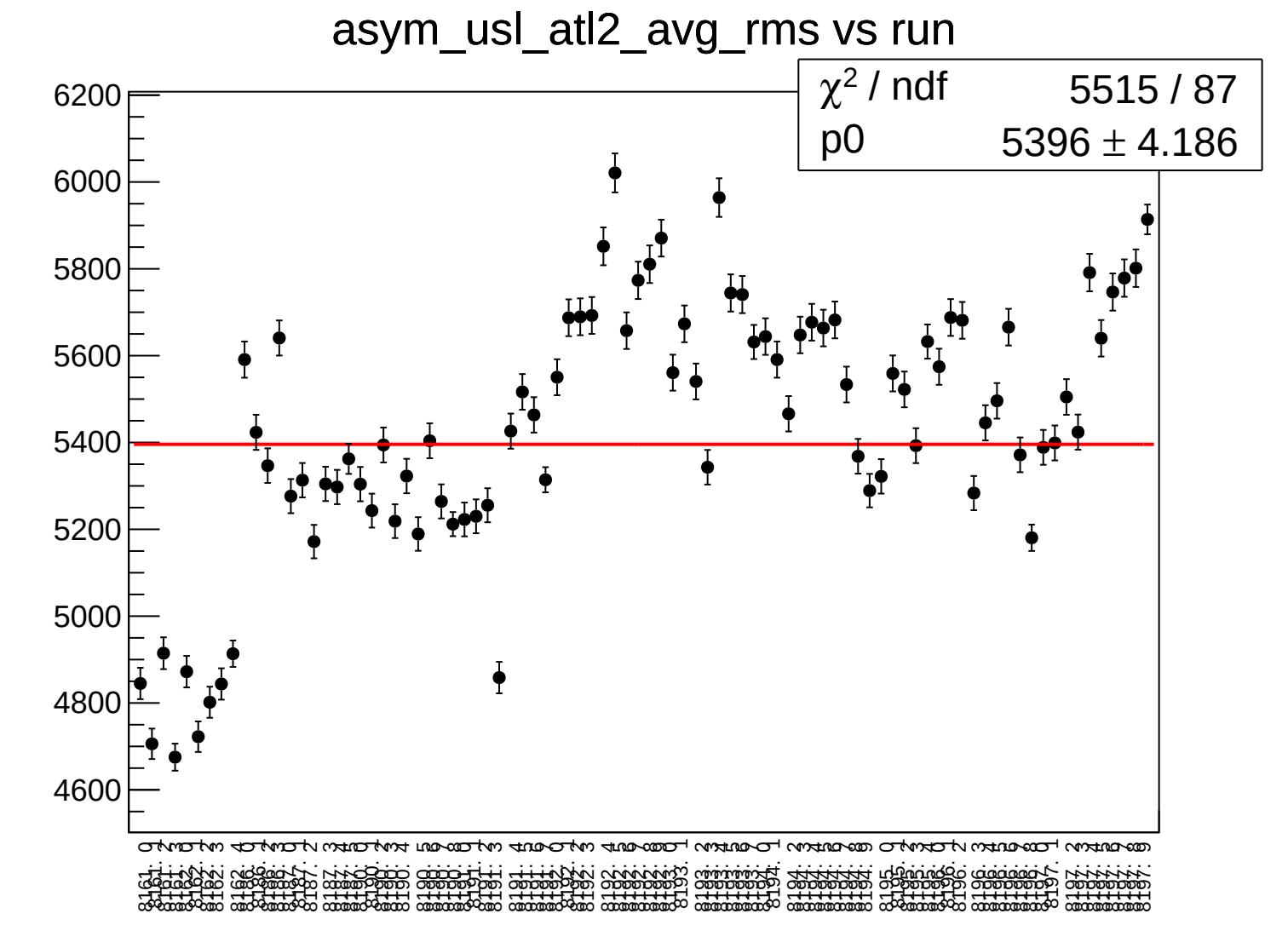

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.49 / 87
p0 −3655 ± 5612
pull
Entries 88
Mean −169.9
Std Dev 0

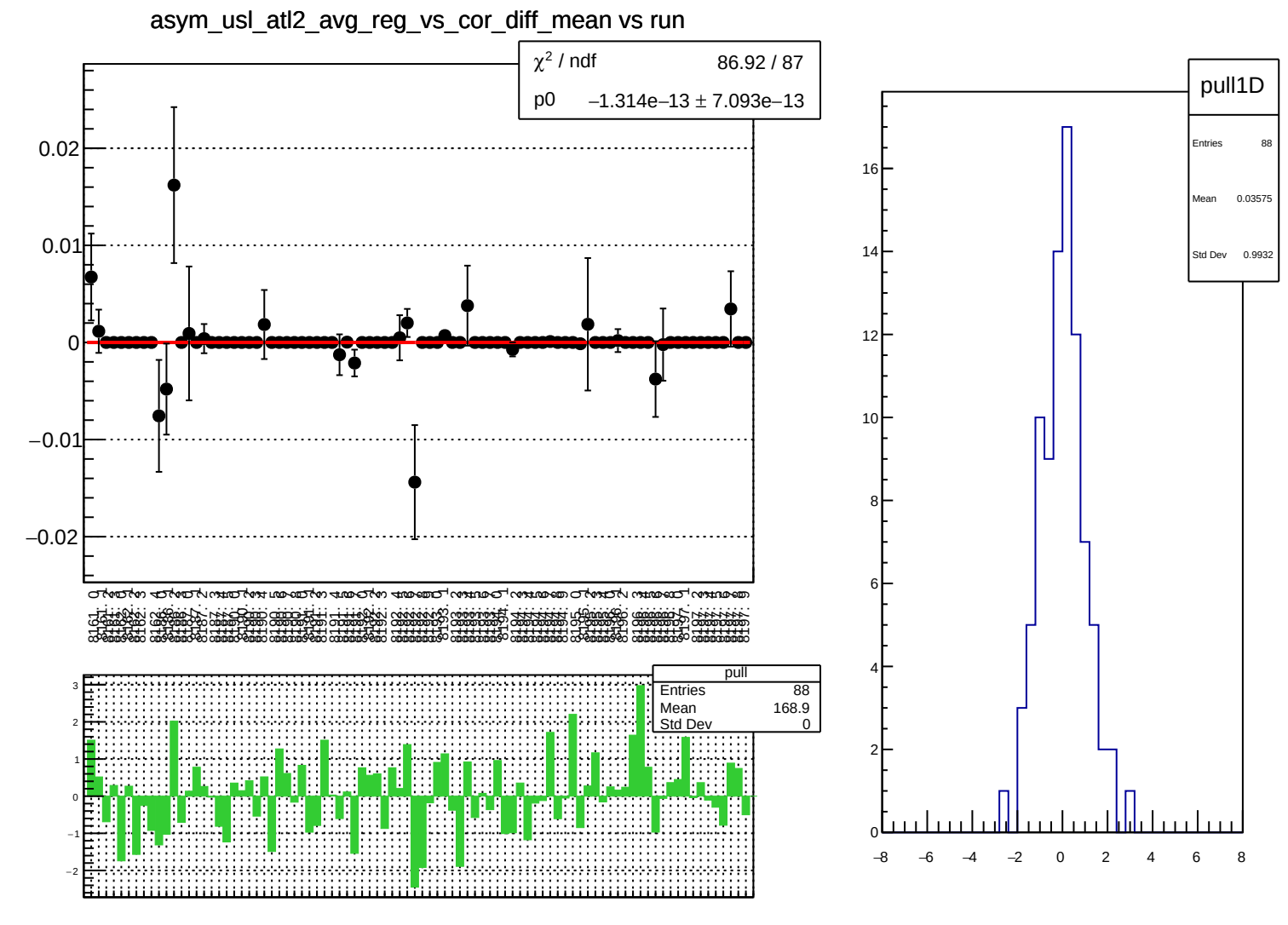

pull1D
Entries 88
Mean 0.004547
Std Dev 0.9384

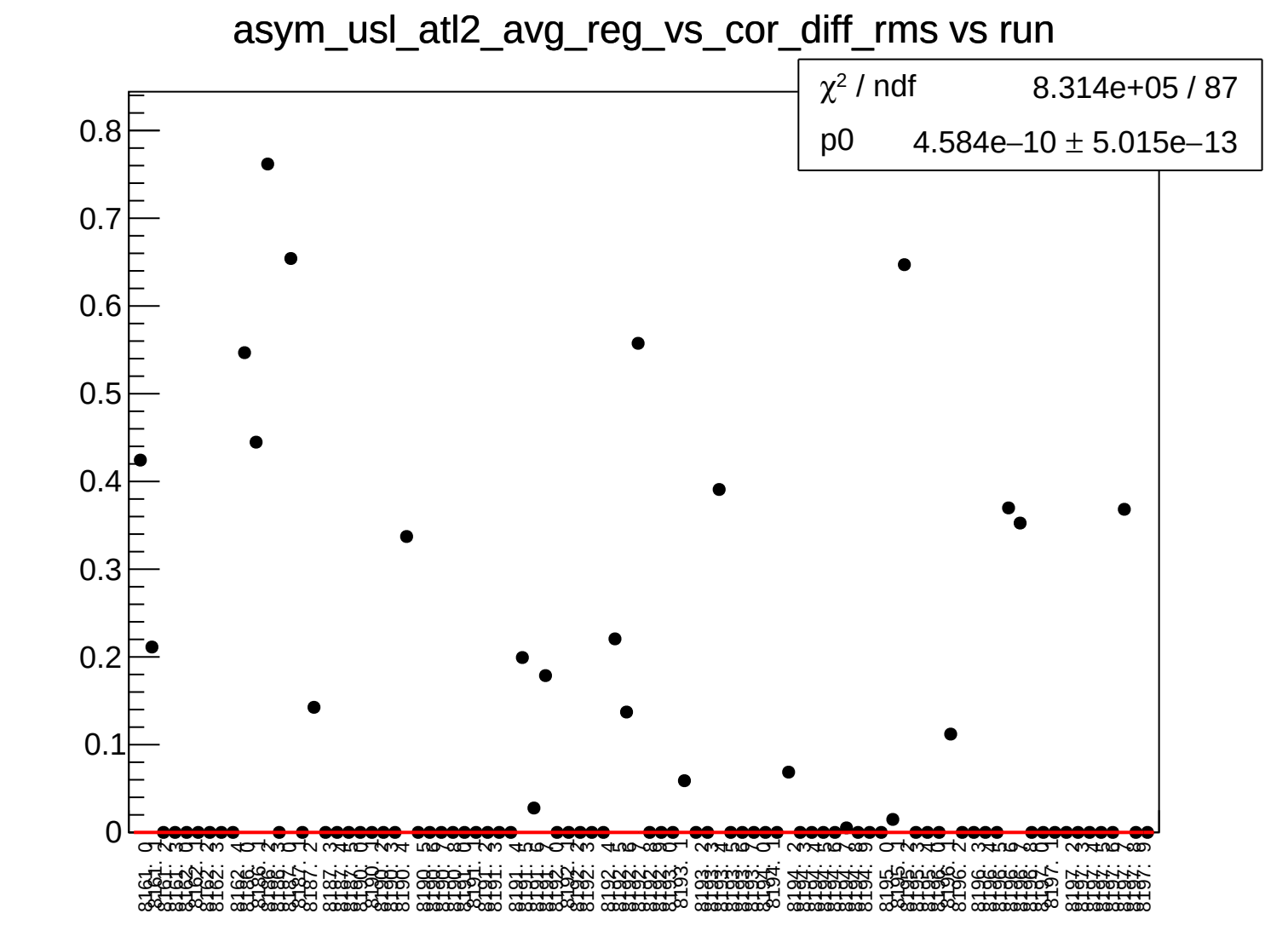

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5833 / 87
p0 5114 ± 3.968
5800
5600
5400
5200
5000
4800
4600
4400

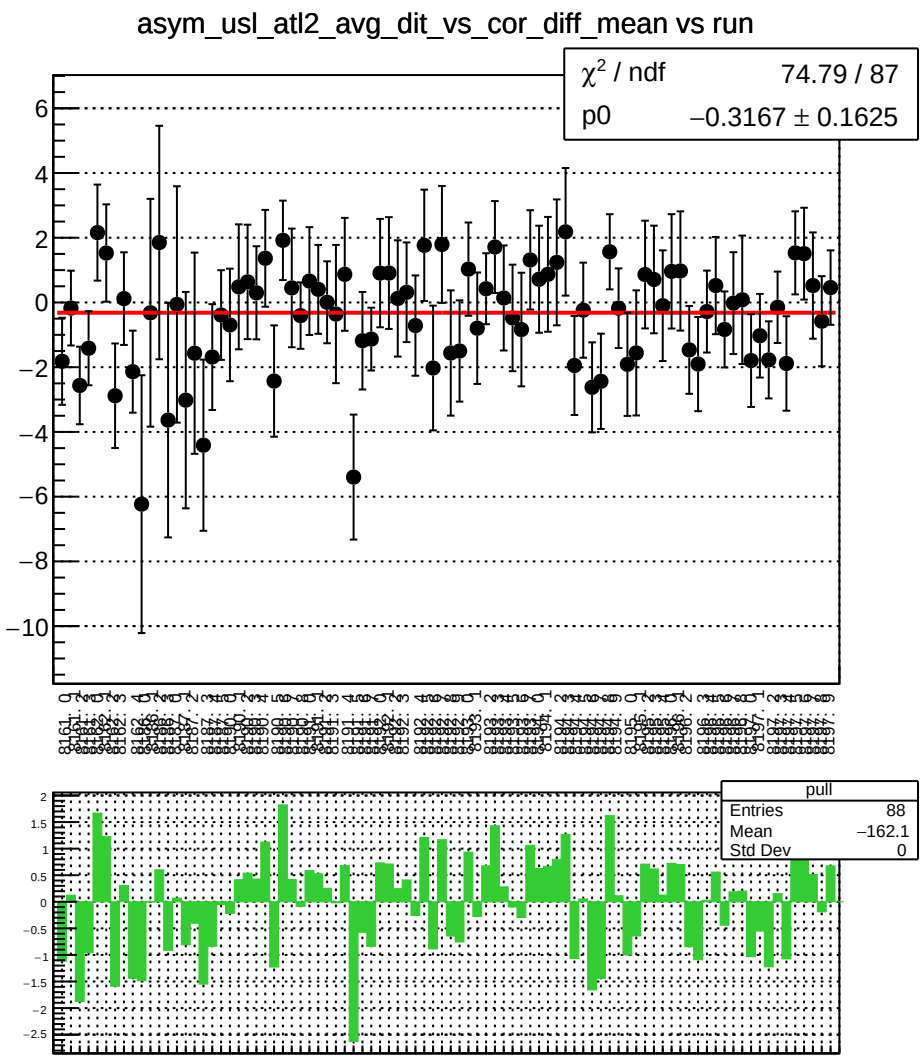

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 87.12 / 87
p0 780.8 ± 5920
pull
Entries 88
Mean 5557
Std Dev 0

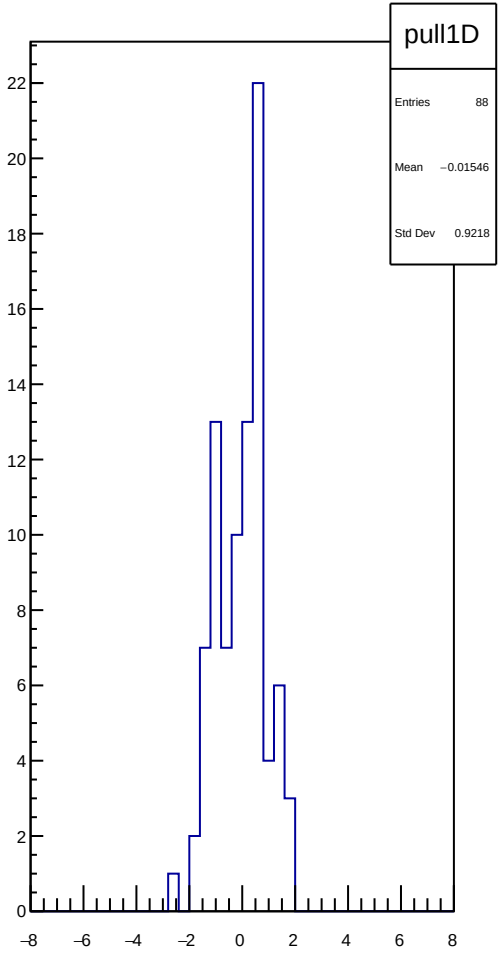

pull1D
Entries 88
Mean 9.286e−05
Std Dev 0.995

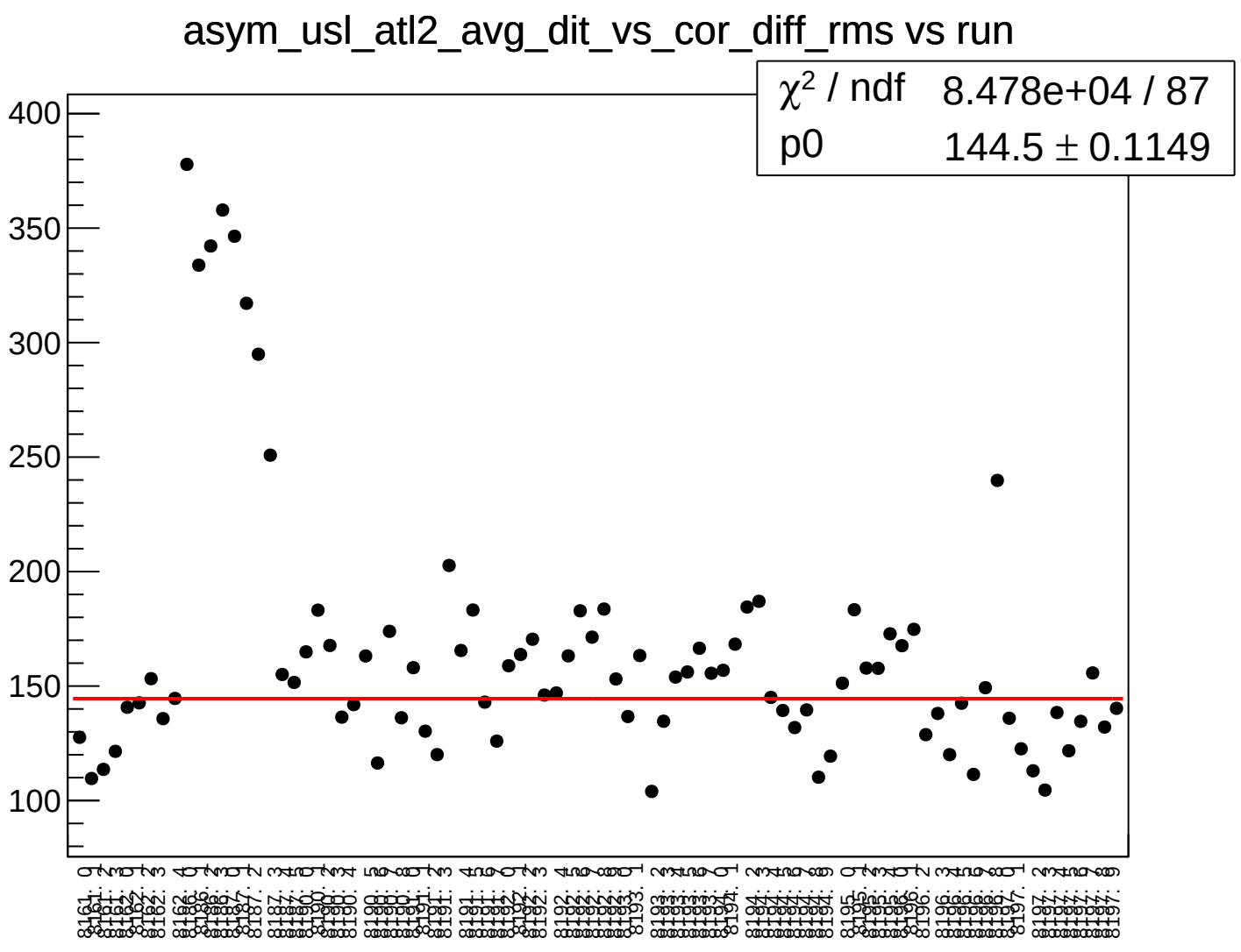

asym_usl_atl2_avg_rms vs run
χ² / ndf 5515 / 87
p0 5396 ± 4.186
6200
6000
5800
5600
5400
5200
5000
4800
4600

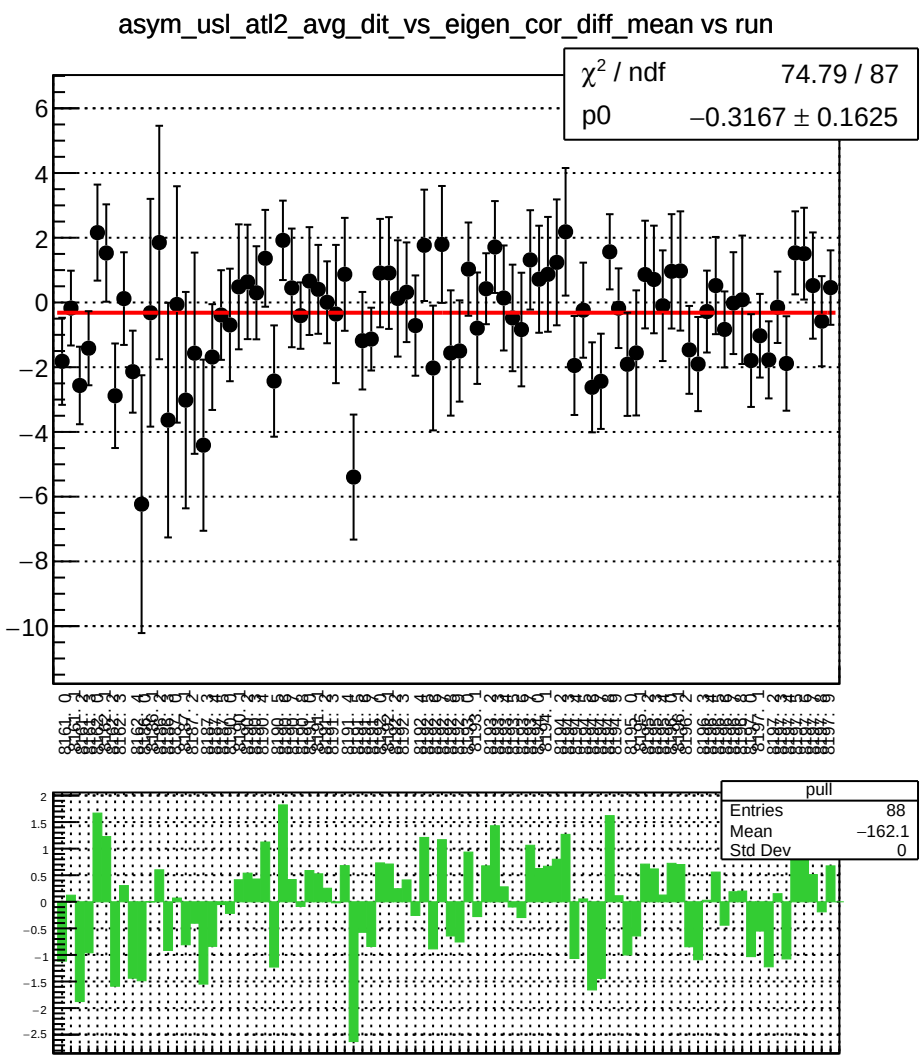

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.92 / 87
p0 −1.314e−13 ± 7.093e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 168.9
Std Dev 0
pull1D
Entries 88
Mean 0.03575
Std Dev 0.9932

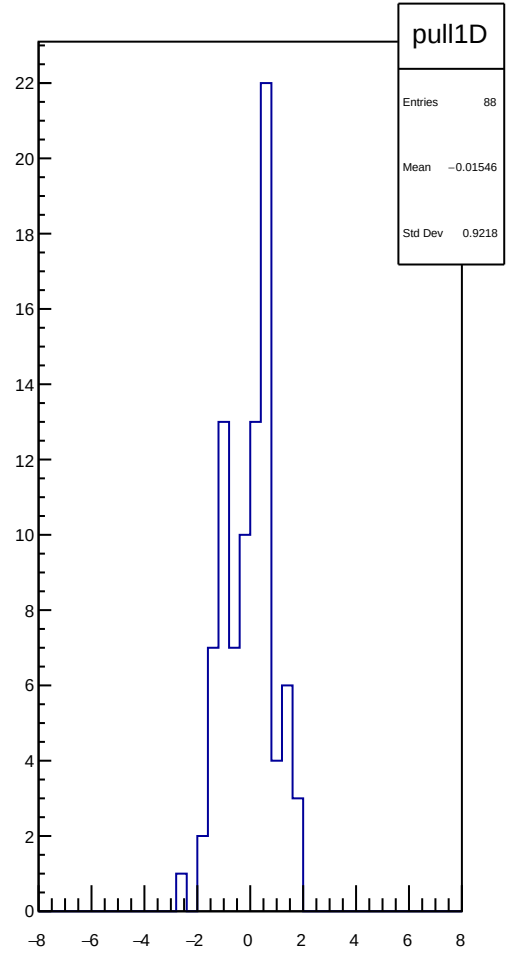

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.314e+05 / 87
p0 4.584e−10 ± 5.015e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

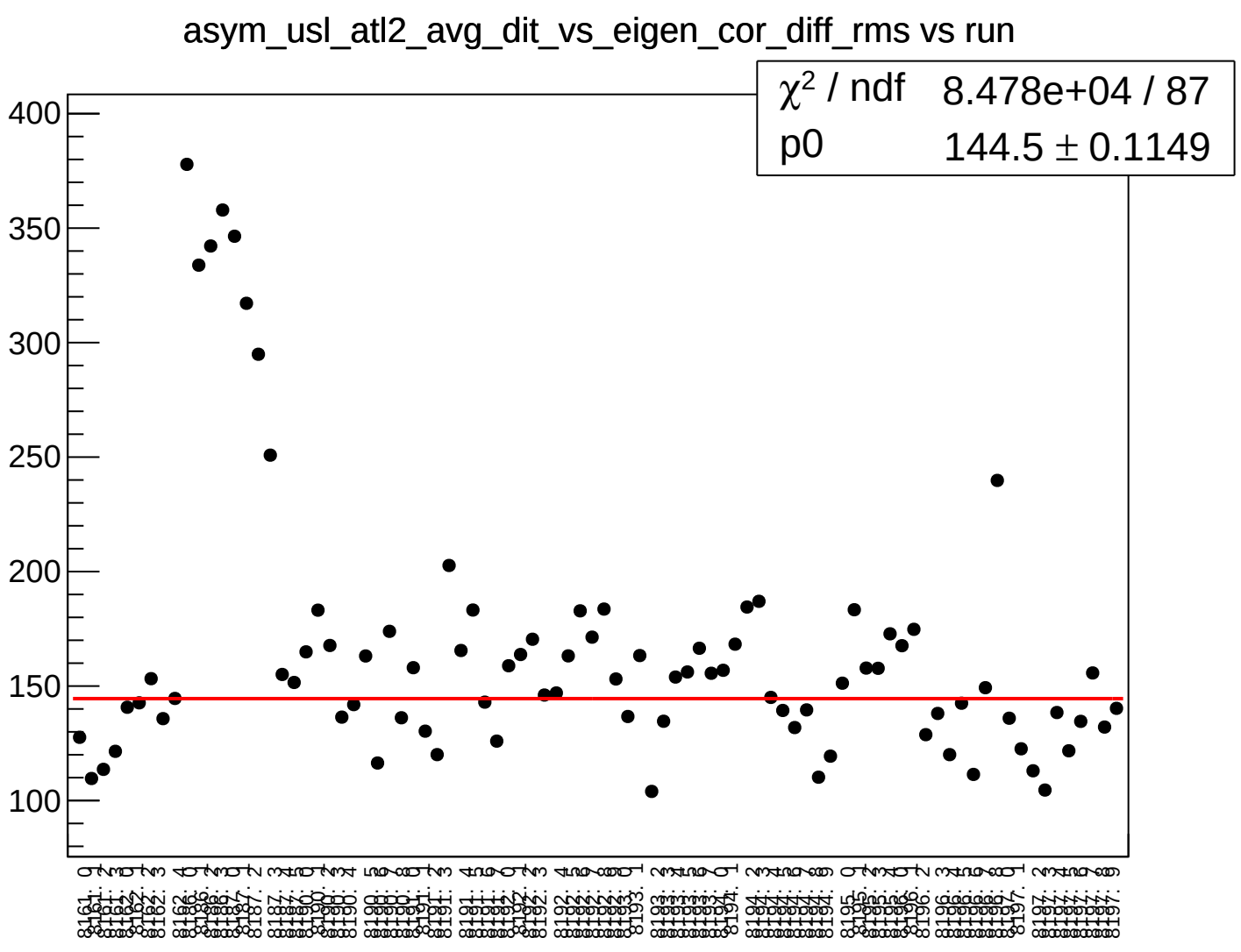

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.79 / 87
p0 −0.3167 ± 0.1625
pull
Entries 88
Mean −162.1
Std Dev 0

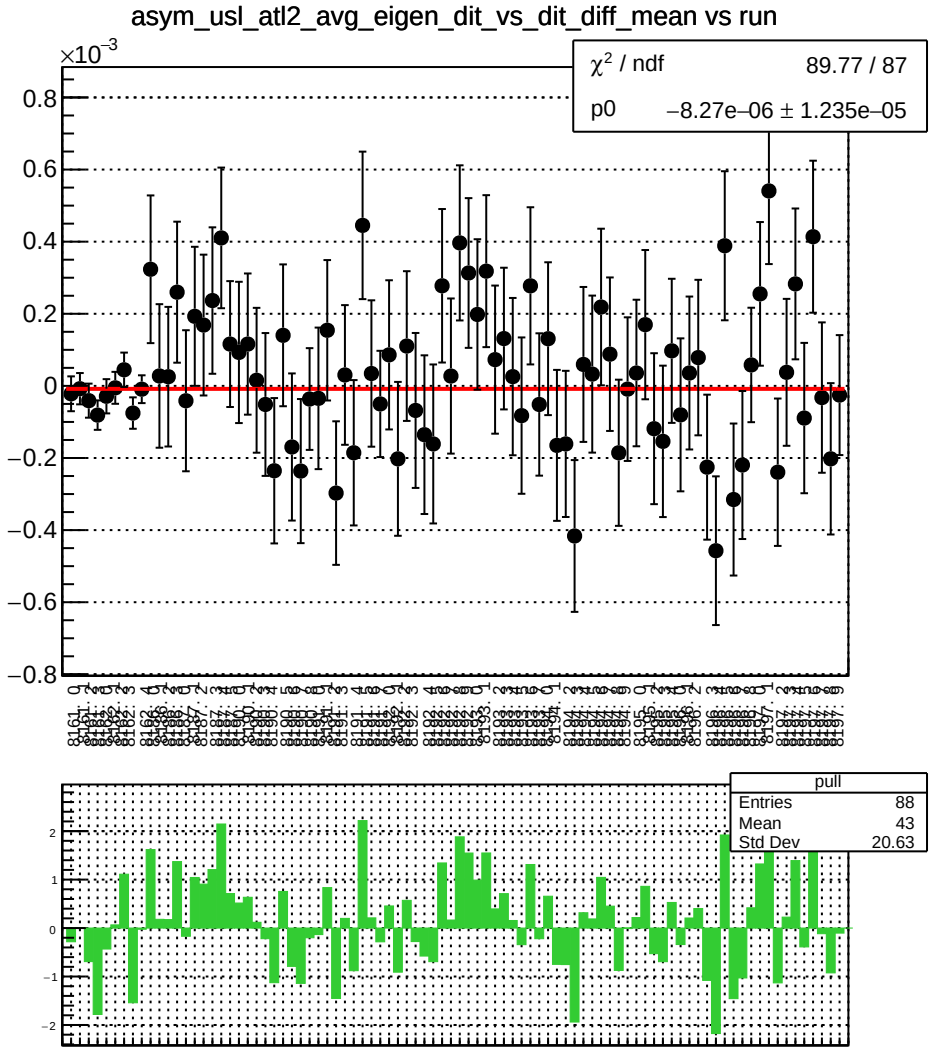

pull1D
Entries 88
Mean −0.01546
Std Dev 0.9218

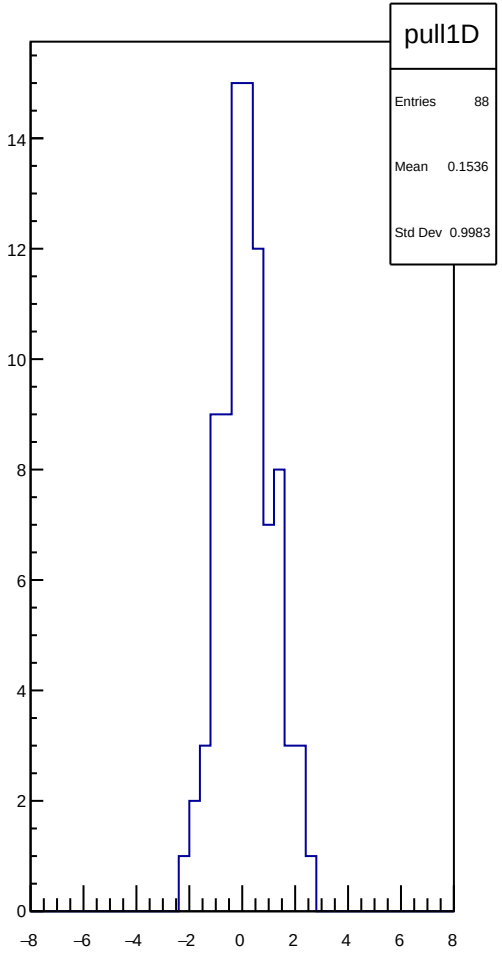

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.478e+04 / 87
p0 144.5 ± 0.1149
400
350
300
250
200
150
100

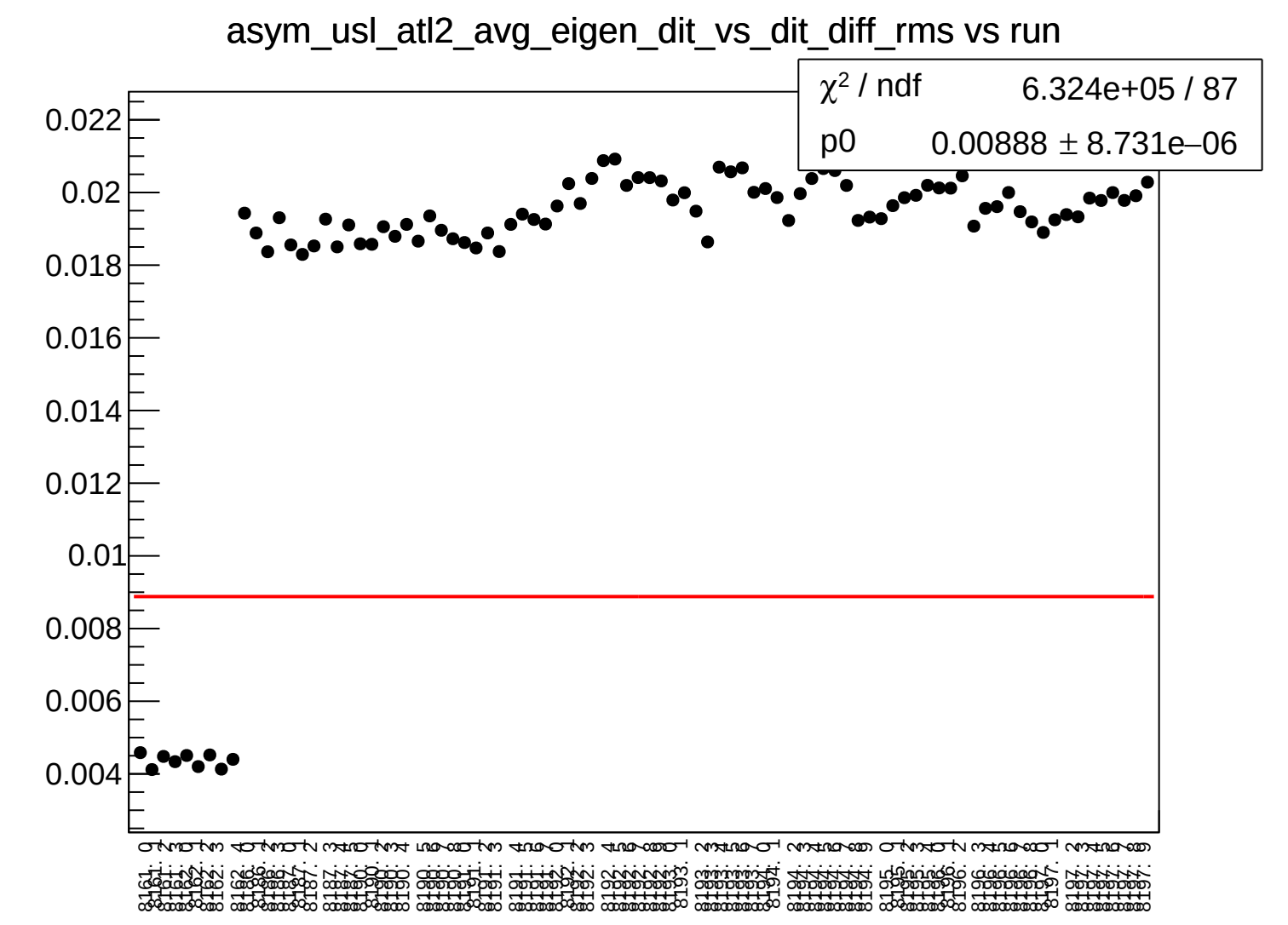

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.79 / 87
p0 −0.3167 ± 0.1625
pull
Entries 88
Mean −162.1
Std Dev 0

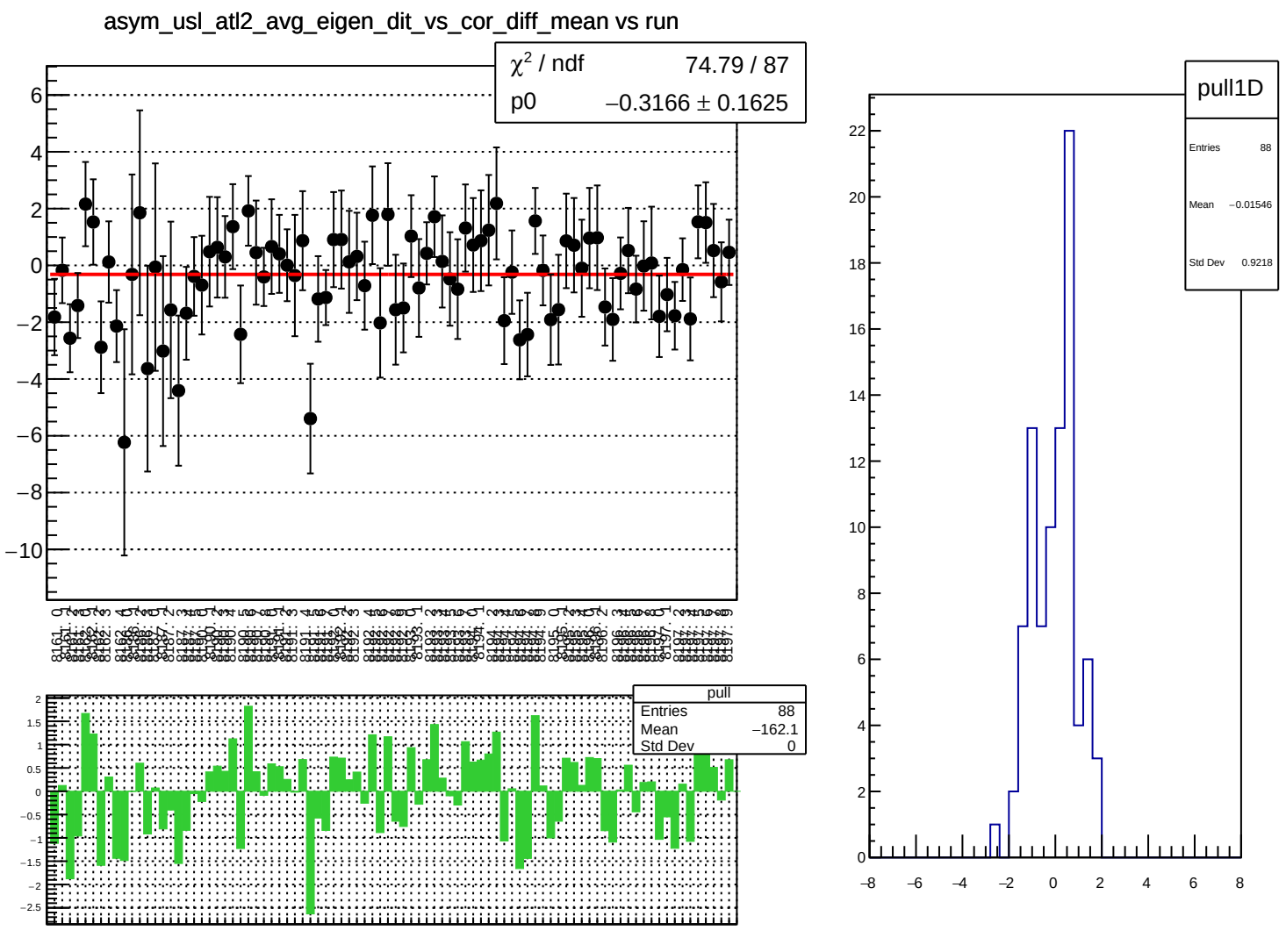

pull1D
Entries 88
Mean −0.01546
Std Dev 0.9218

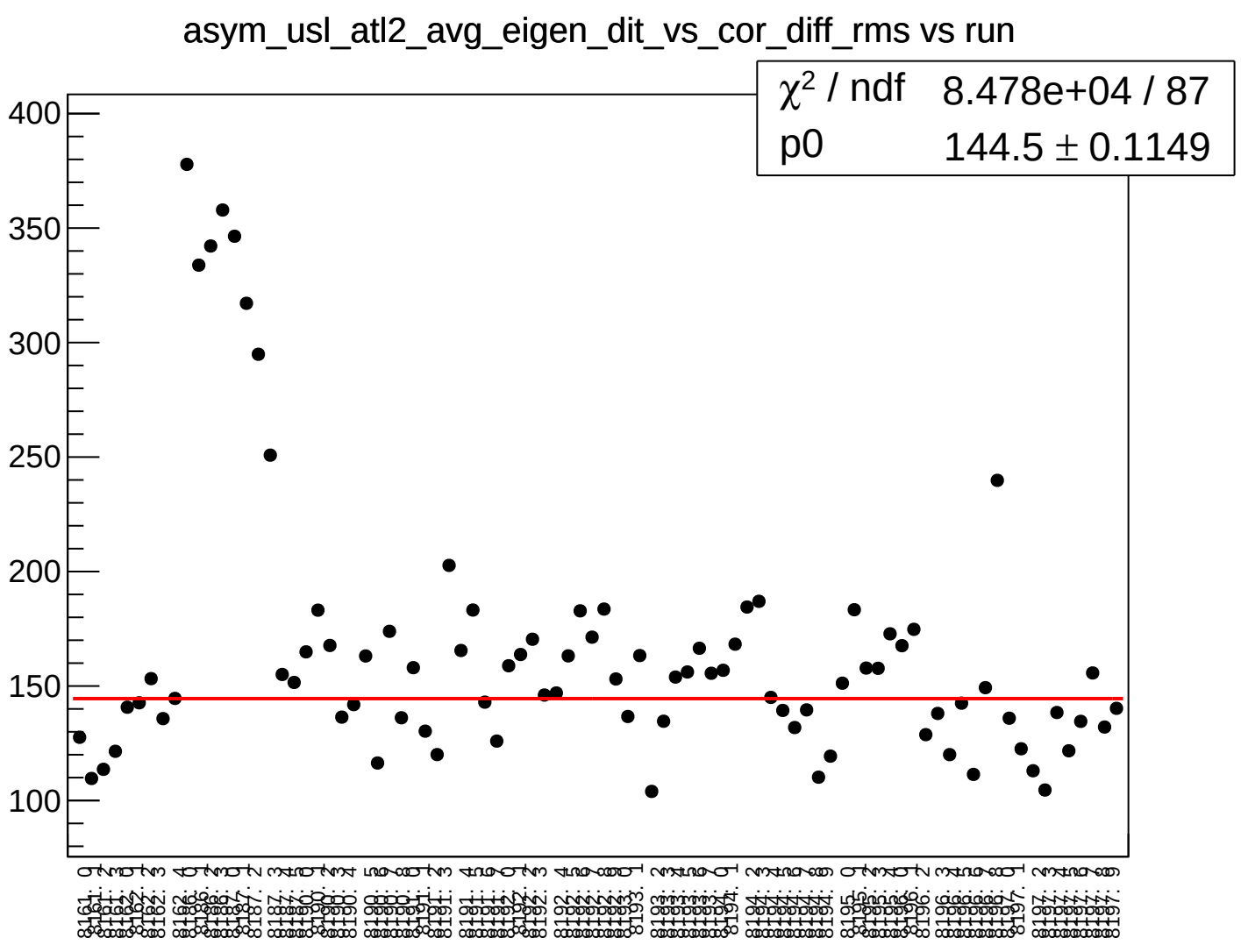

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.478e+04 / 87
p0 144.5 ± 0.1149
400
350
300
250
200
150
100

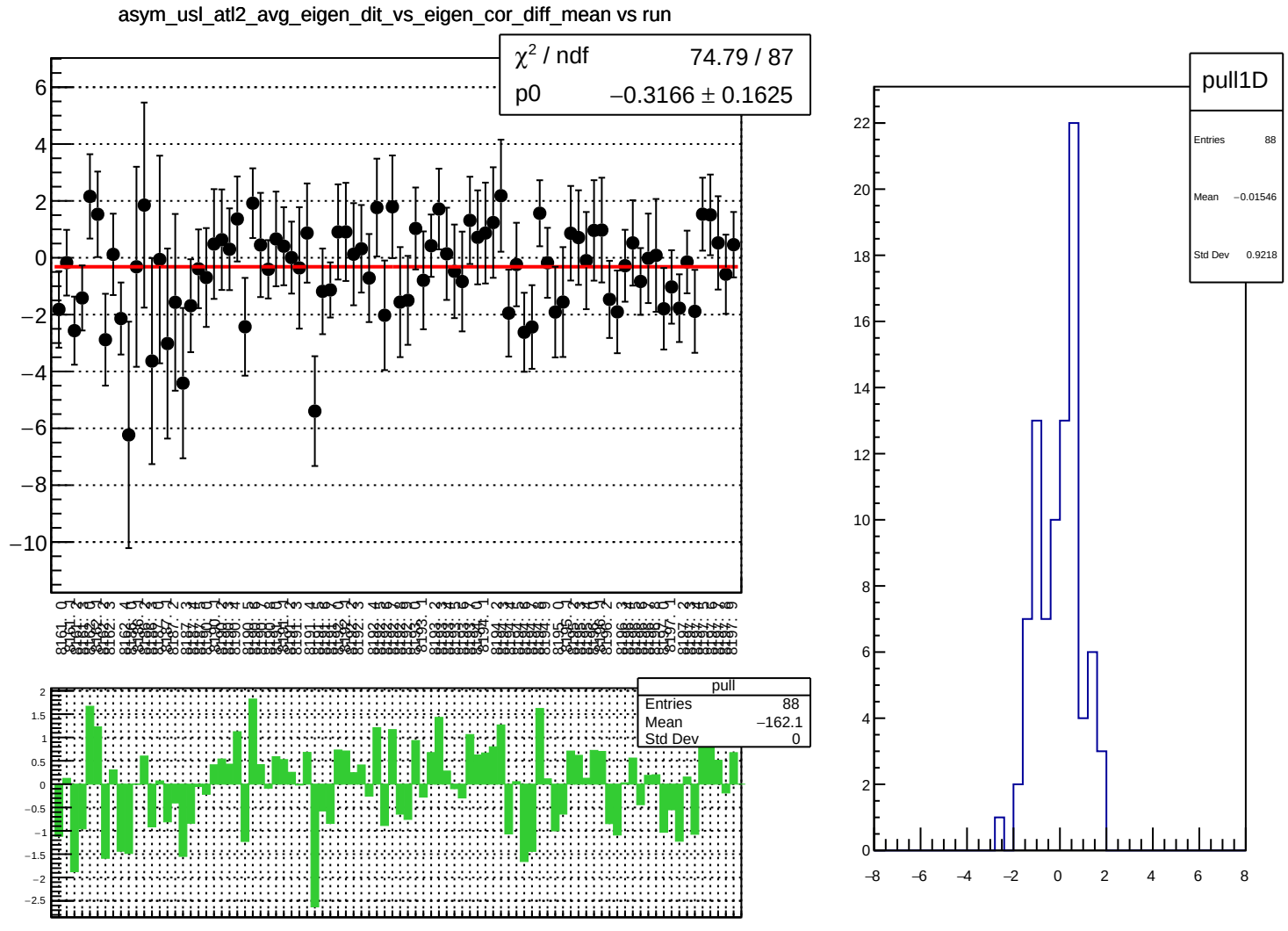

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.77 / 87
p0 −8.27e−06 ± 1.235e−05
pull
Entries 88
Mean 43
Std Dev 20.63

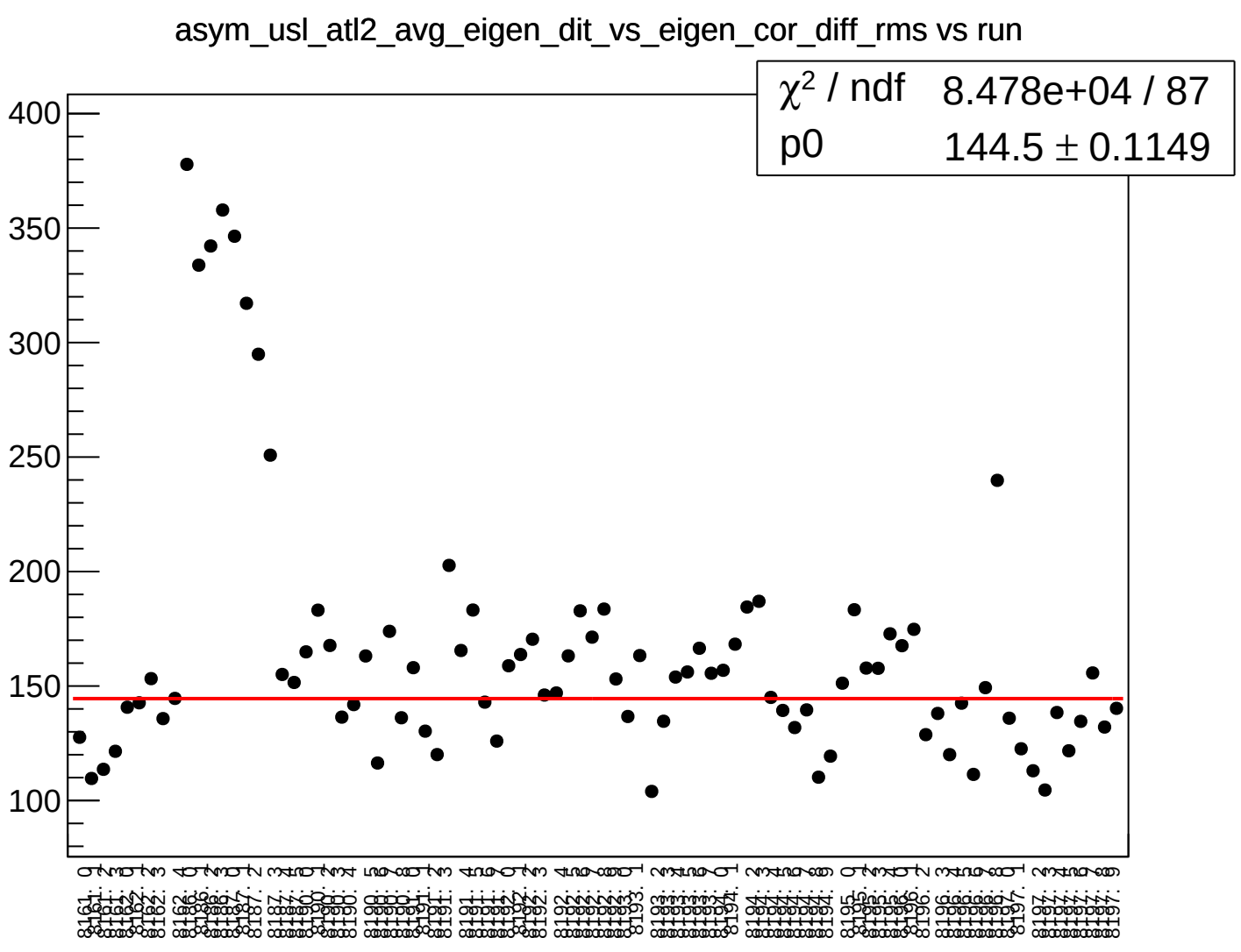

pull1D
Entries 88
Mean 0.1536
Std Dev 0.9983

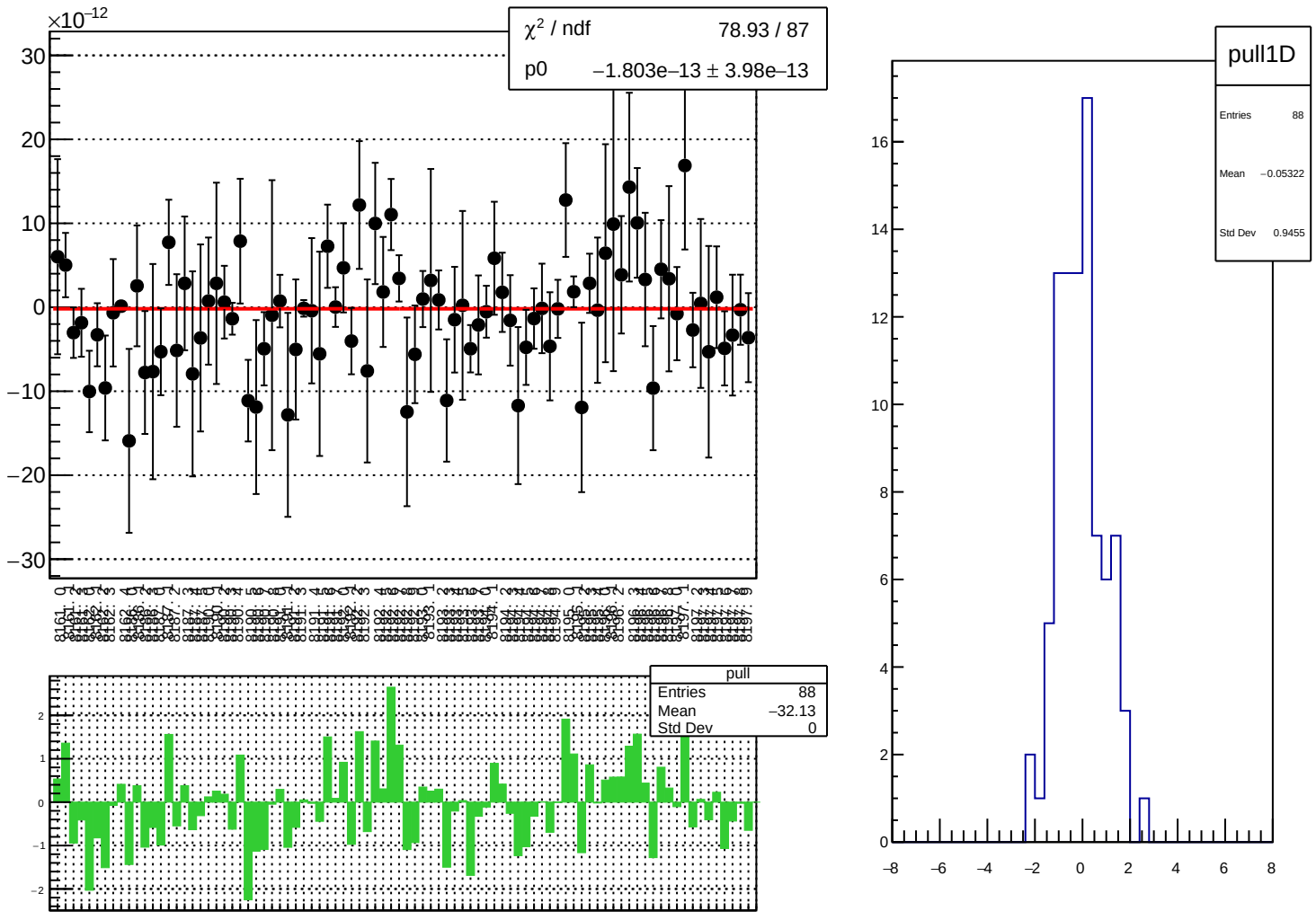

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.324e+05 / 87
p0 0.00888 ± 8.731e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

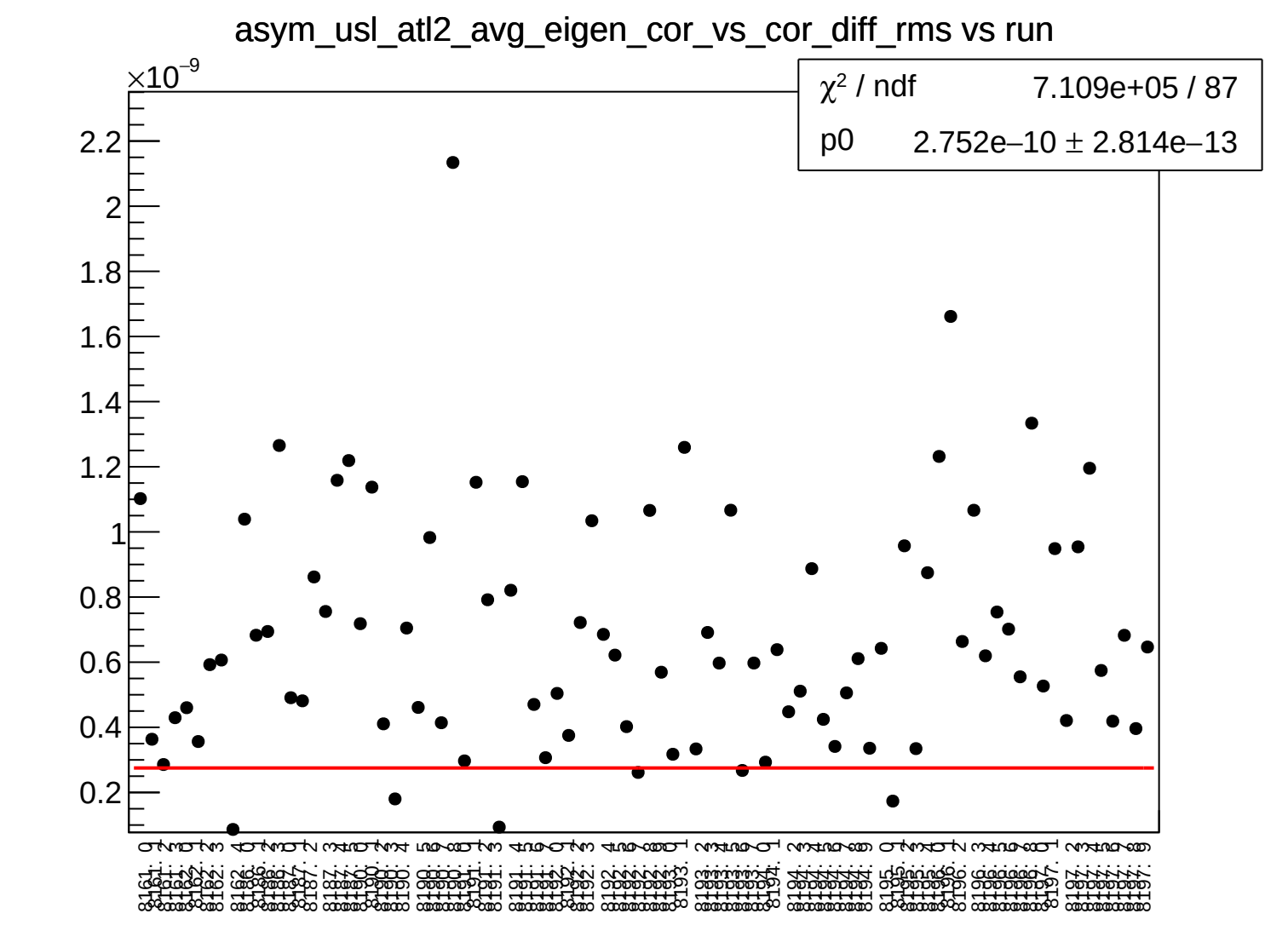

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.79 / 87
p0 −0.3166 ± 0.1625
pull
Entries 88
Mean −162.1
Std Dev 0
pull1D
Entries 88
Mean −0.01546
Std Dev 0.9218

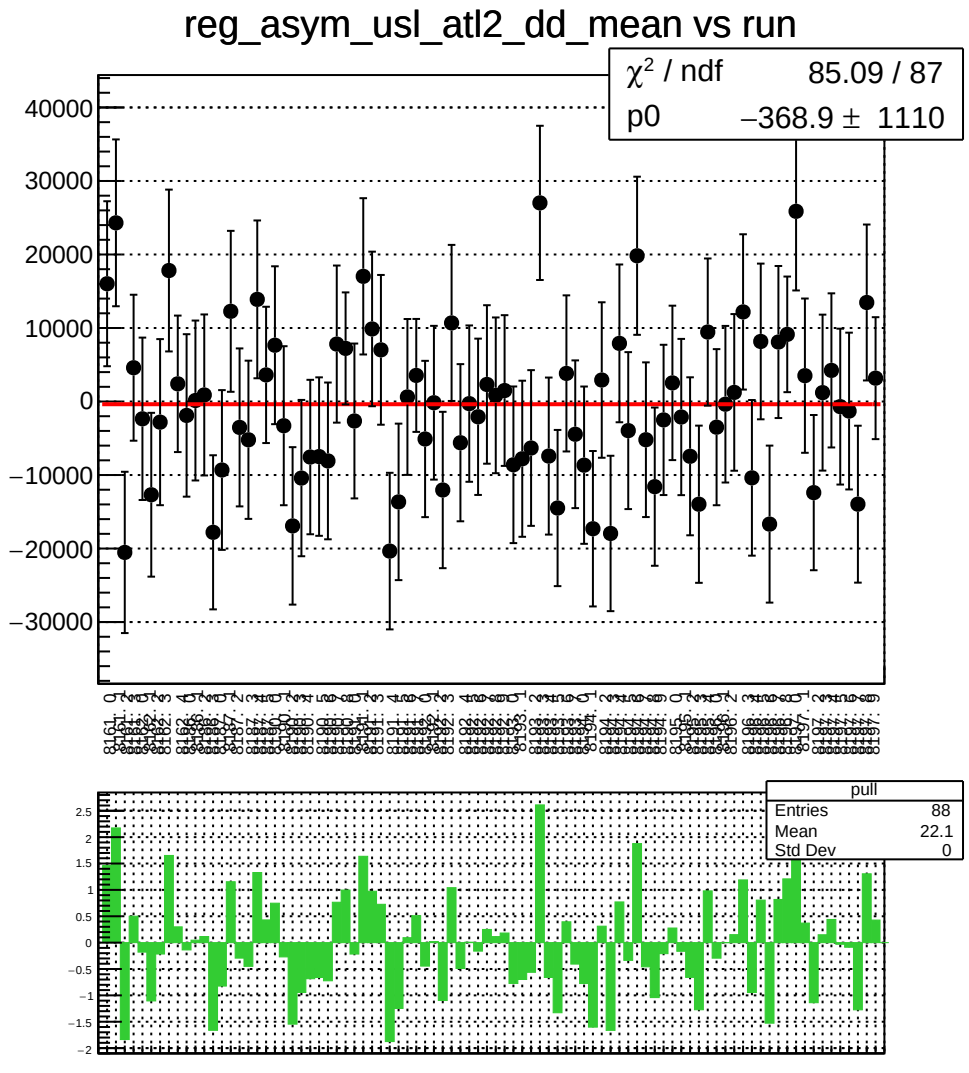

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.478e+04 / 87
p0 144.5 ± 0.1149
400
350
300
250
200
150
100

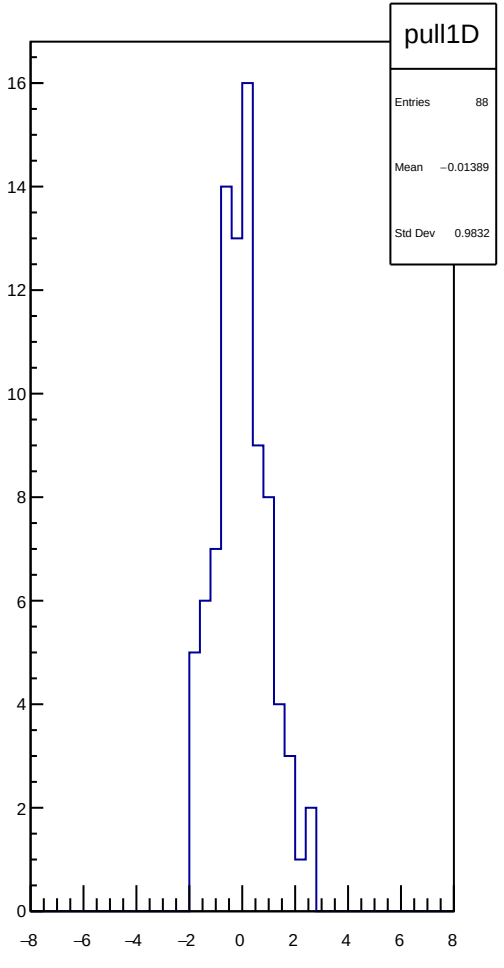

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.79 / 87
p0 −0.3166 ± 0.1625
pull
Entries 88
Mean −162.1
Std Dev 0
pull1D
Entries 88
Mean −0.01546
Std Dev 0.9218

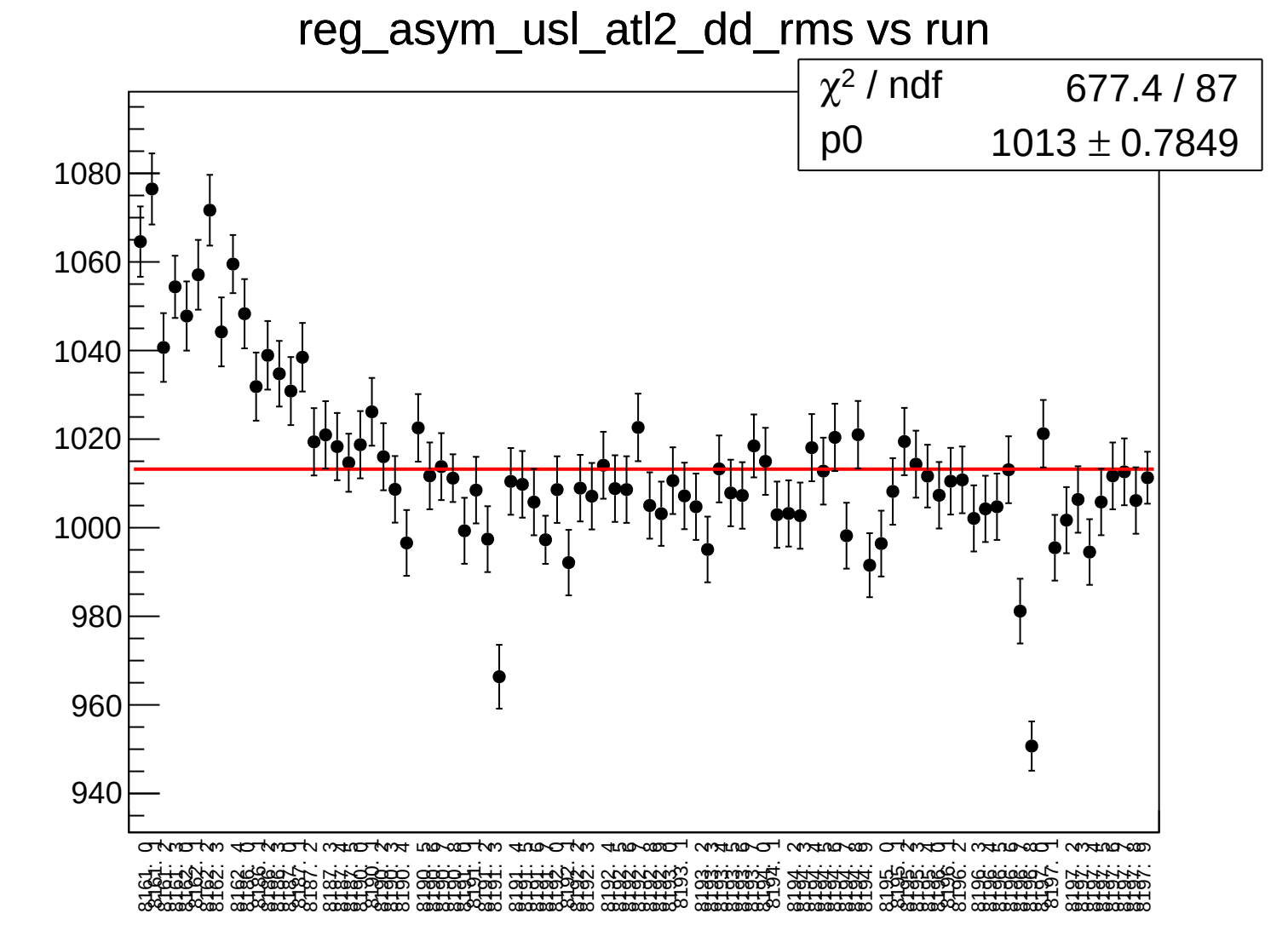

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.478e+04 / 87
p0 144.5 ± 0.1149
400
350
300
250
200
150
100

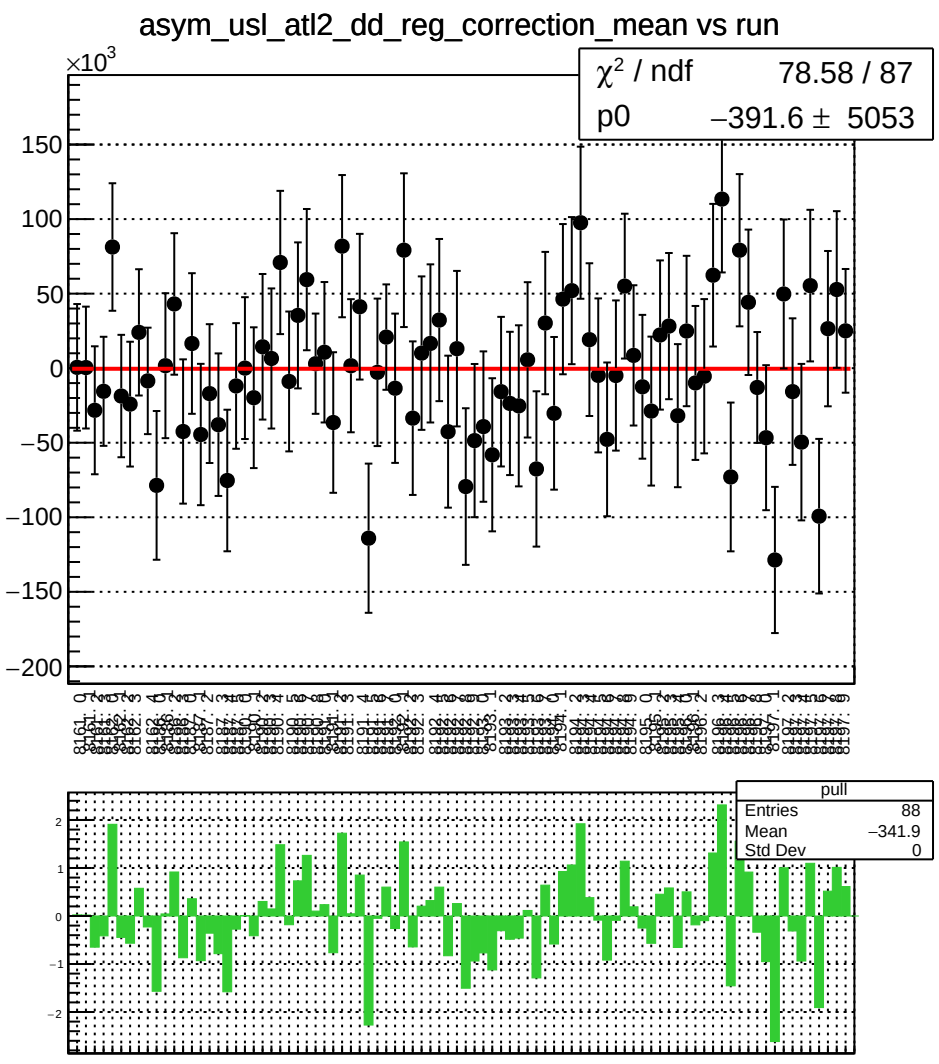

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.93 / 87
p0 −1.803e−13 ± 3.98e−13
pull
Entries 88
Mean −32.13
Std Dev 0
pull1D
Entries 88
Mean −0.05322
Std Dev 0.9455

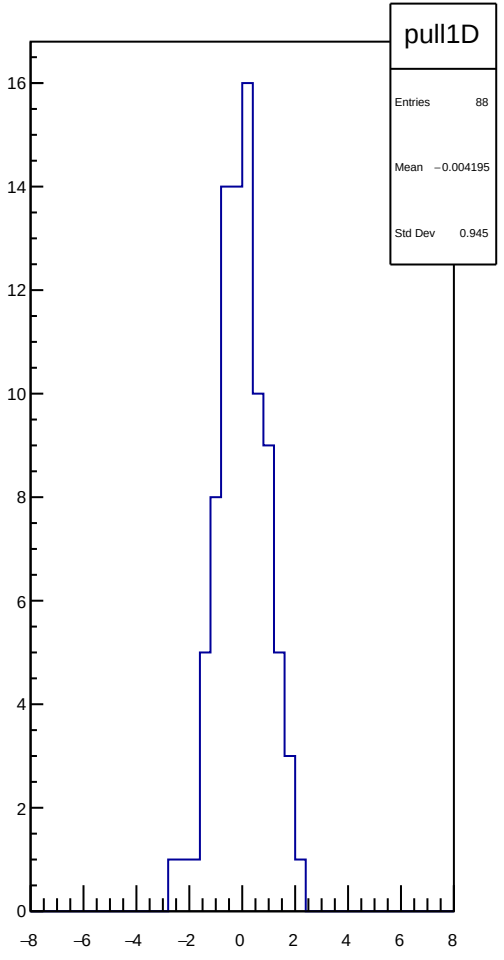

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.109e+05 / 87
p0 2.752e−10 ± 2.814e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

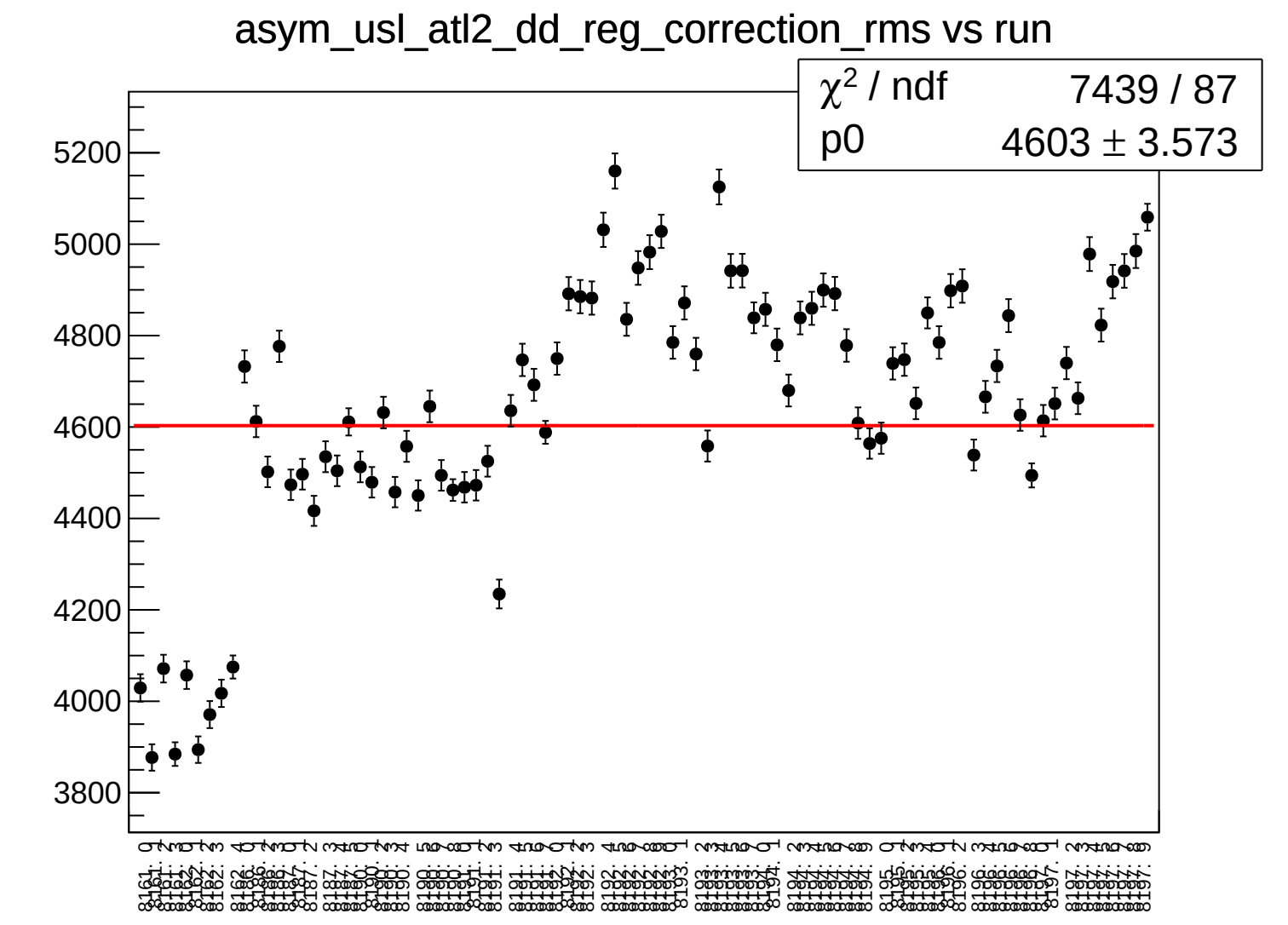

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 85.09 / 87
p0 −368.9 ± 1110
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 22.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

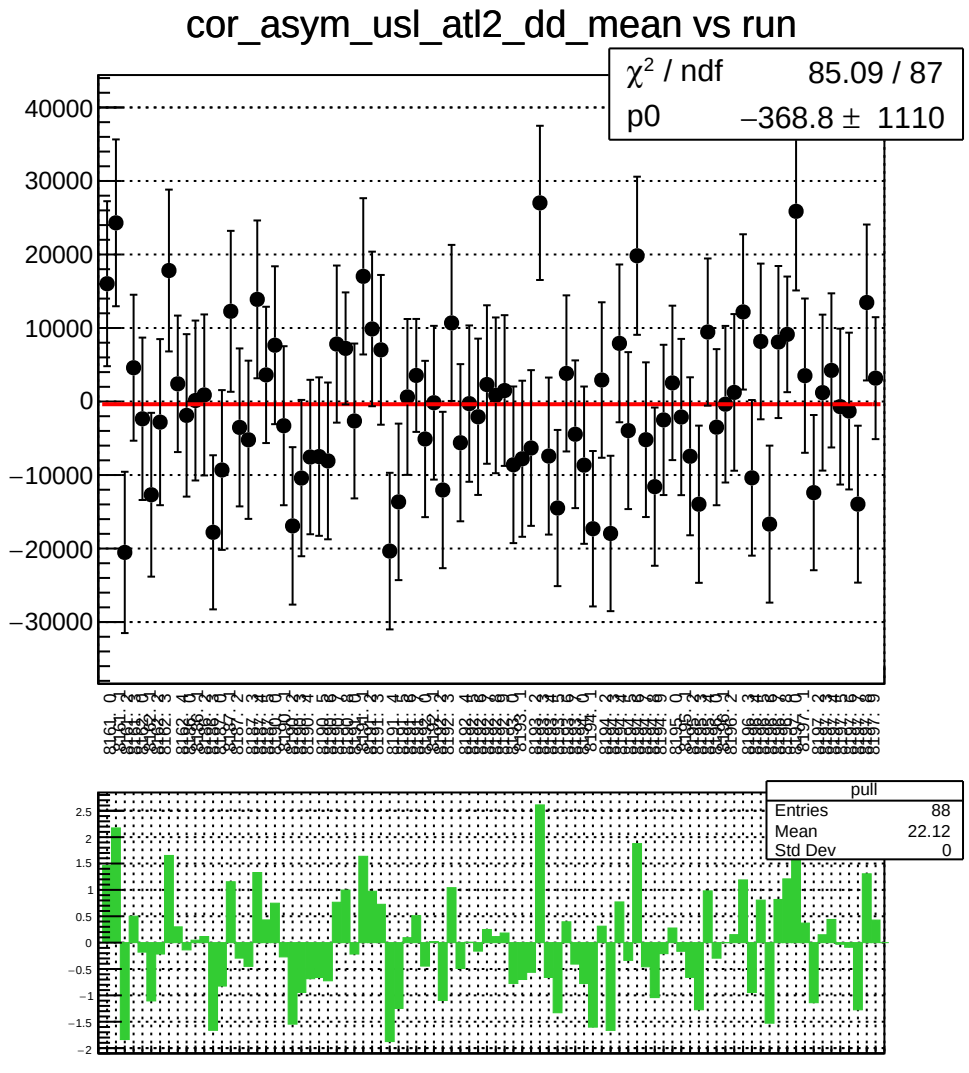

pull1D
Entries 88
Mean −0.01389
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

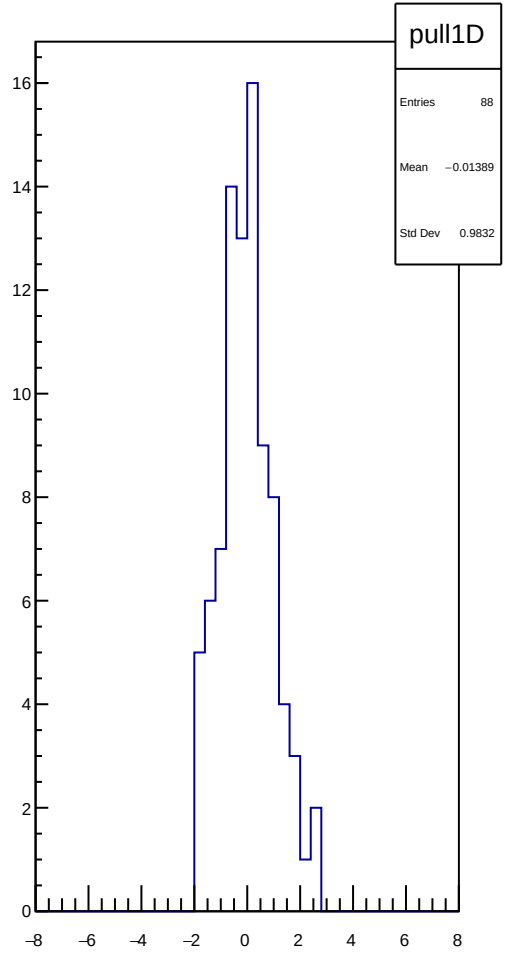

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 677.4 / 87
p0 1013 ± 0.7849
1080
1060
1040
1020
1000
980
960
940

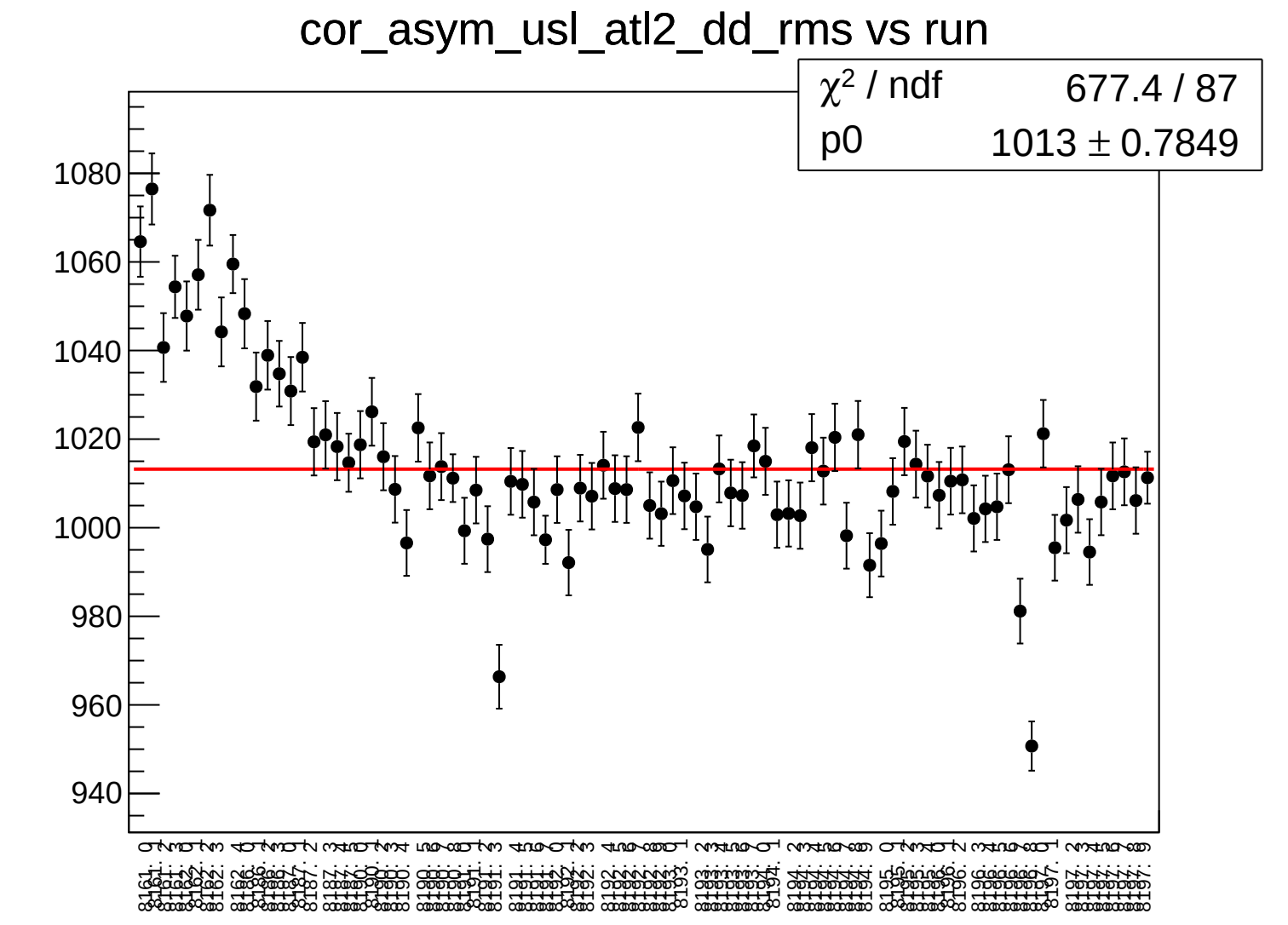

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.58 / 87
p0 −391.6 ± 5053
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −341.9
Std Dev 0
2
1
0
−1
−2

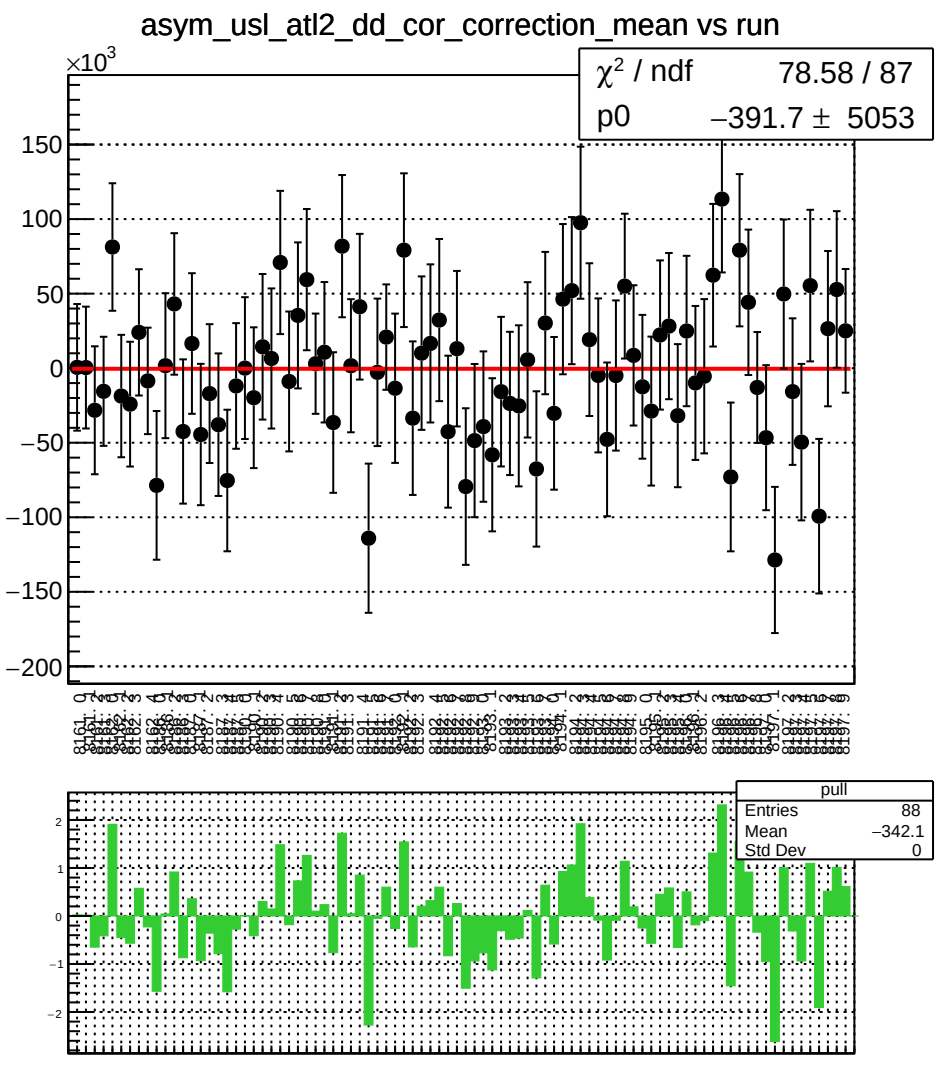

pull1D
Entries 88
Mean −0.004195
Std Dev 0.945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

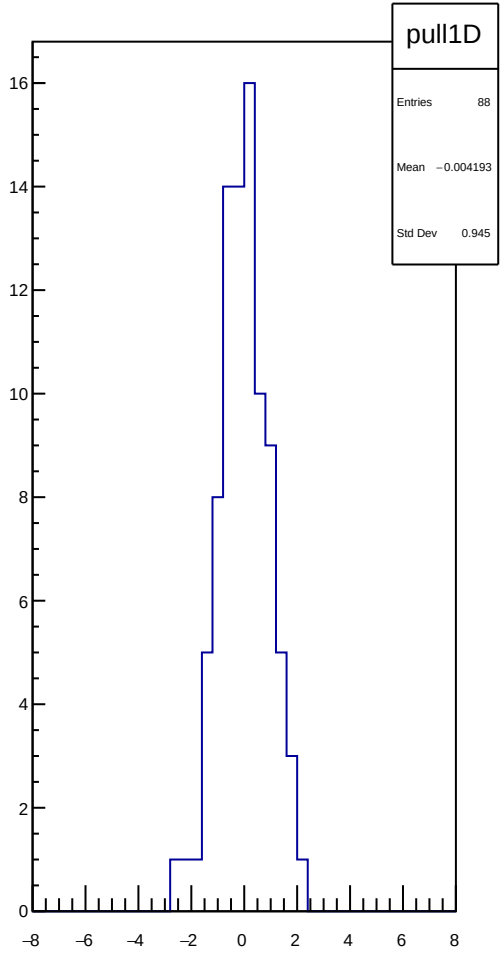

asym_usl_atl2_dd_reg_correction_rms vs run
χ^2 / ndf 7439 / 87
p0 4603 ± 3.573
5200
5000
4800
4600
4400
4200
4000
3800

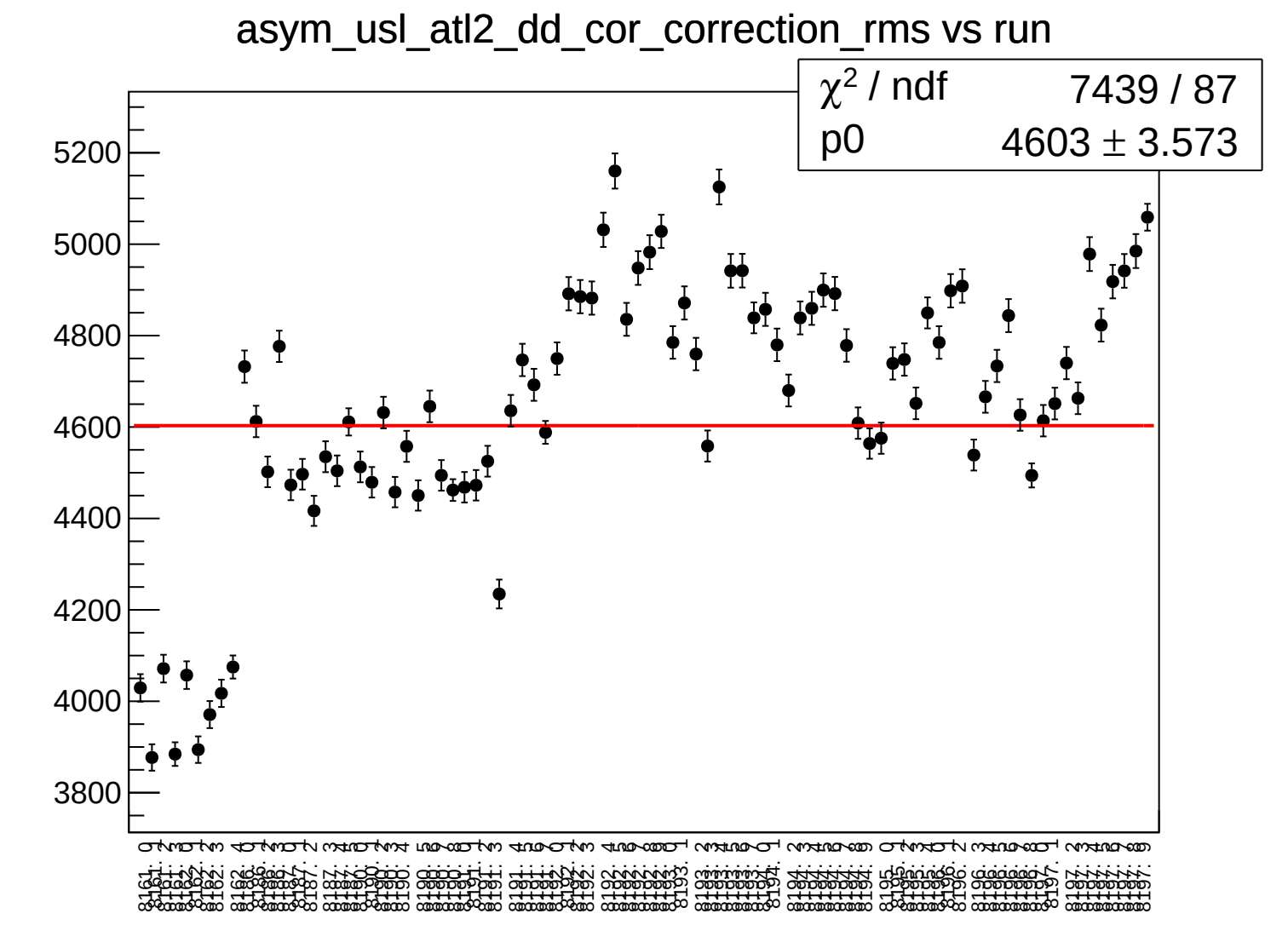

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 85.09 / 87
p0 −368.8 ± 1110
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 22.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

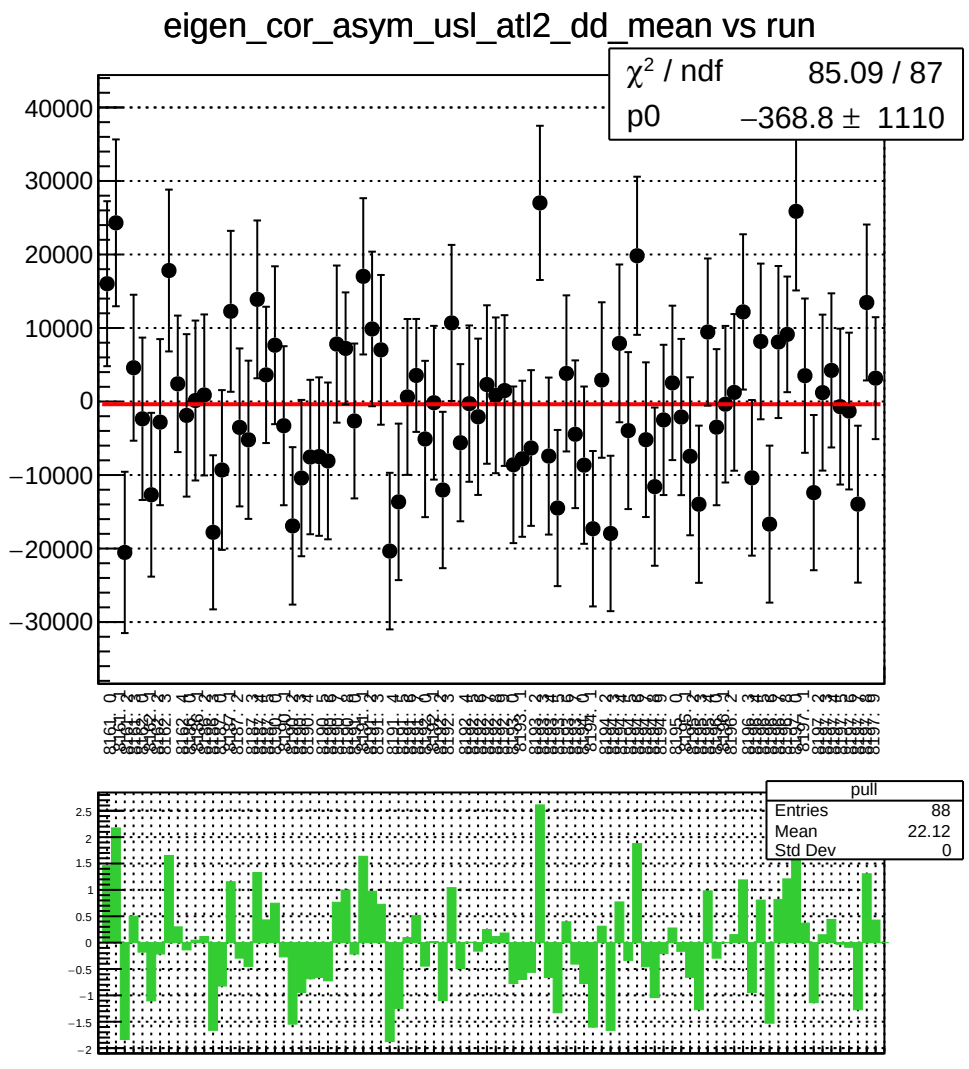

pull1D
Entries 88
Mean −0.01389
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

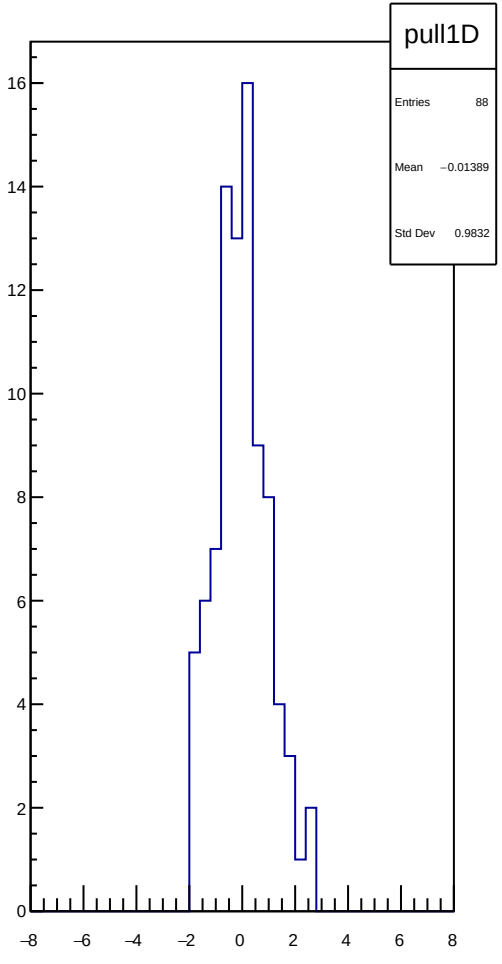

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 677.4 / 87
p0 1013 ± 0.7849
1080
1060
1040
1020
1000
980
960
940

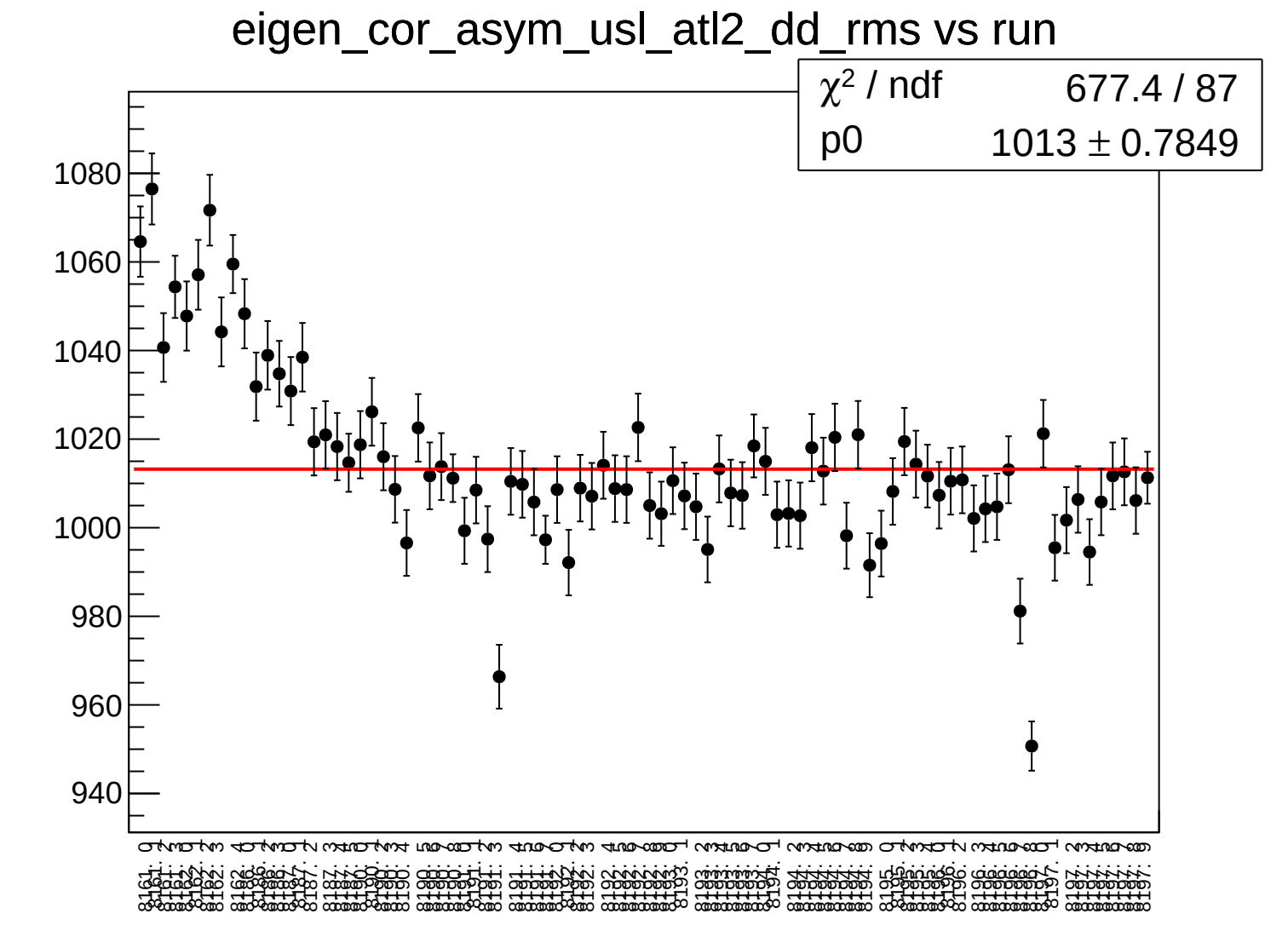

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.58 / 87
p0 −391.7 ± 5053
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −342.1
Std Dev 0
2
1
0
−1
−2

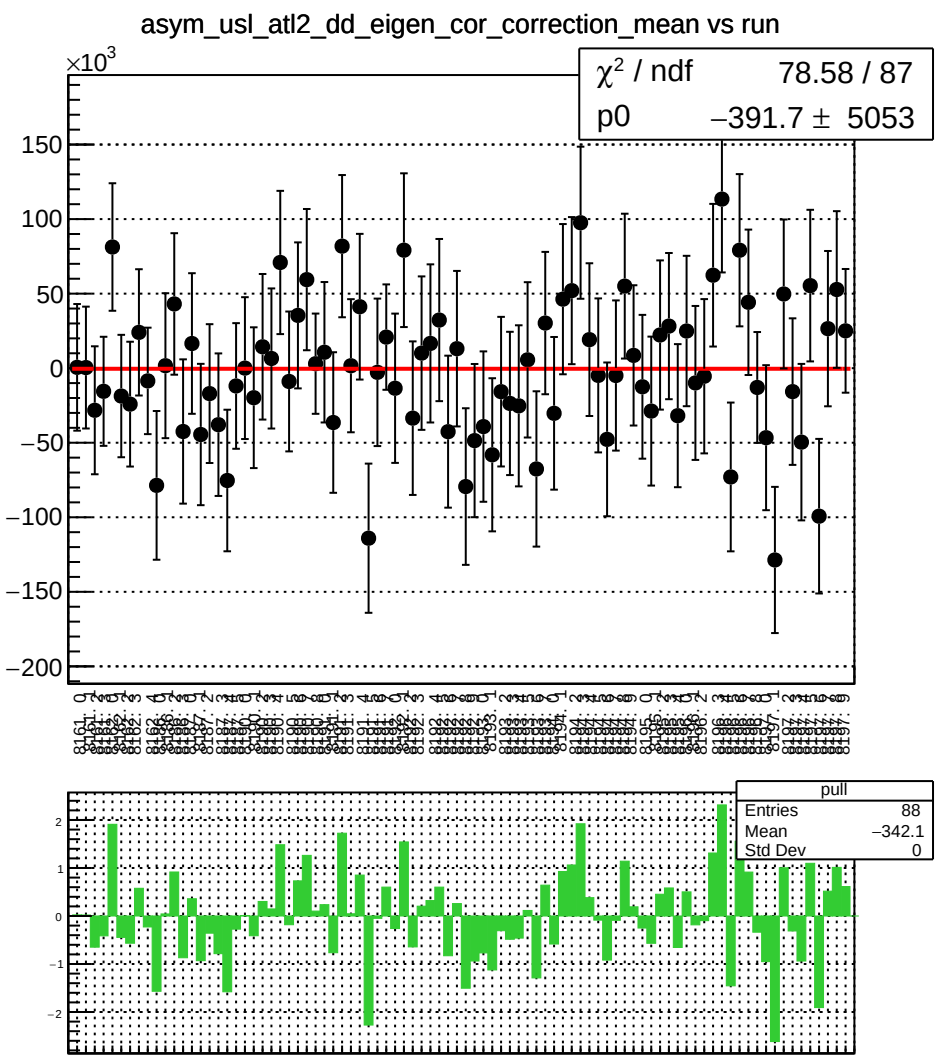

pull1D
Entries 88
Mean −0.004193
Std Dev 0.945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

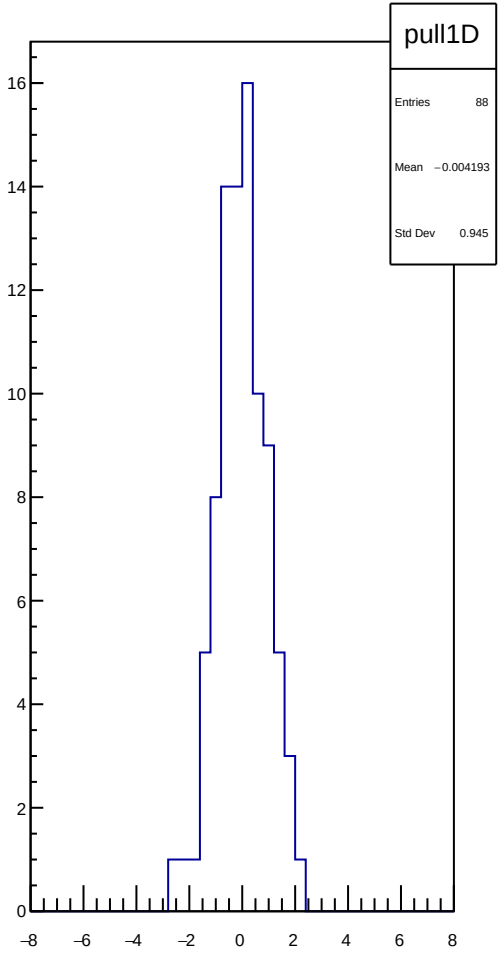

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 7439 / 87
p0 4603 ± 3.573
5200
5000
4800
4600
4400
4200
4000
3800

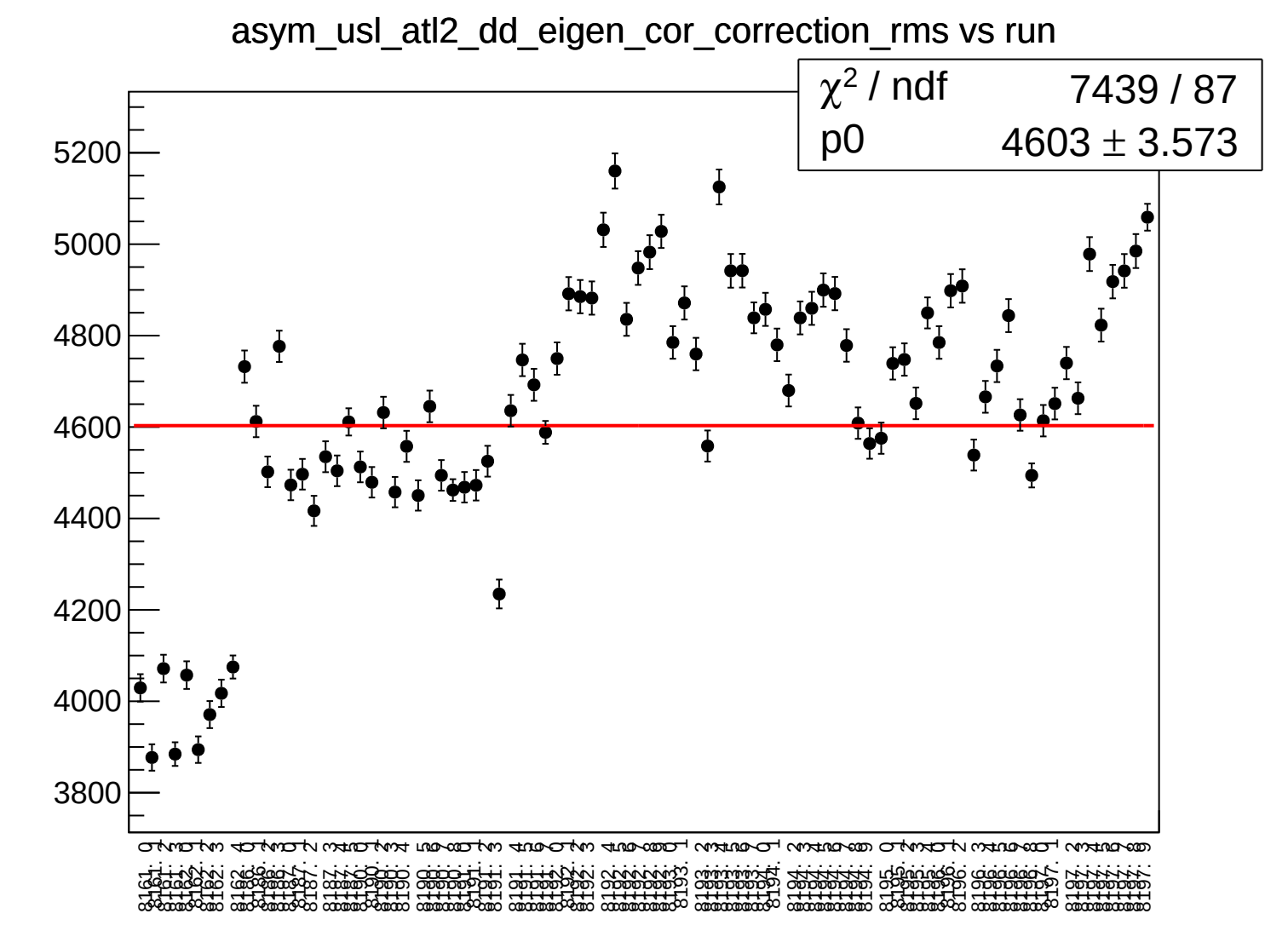

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 85.09 / 87
p0 −368.8 ± 1110
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 22.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

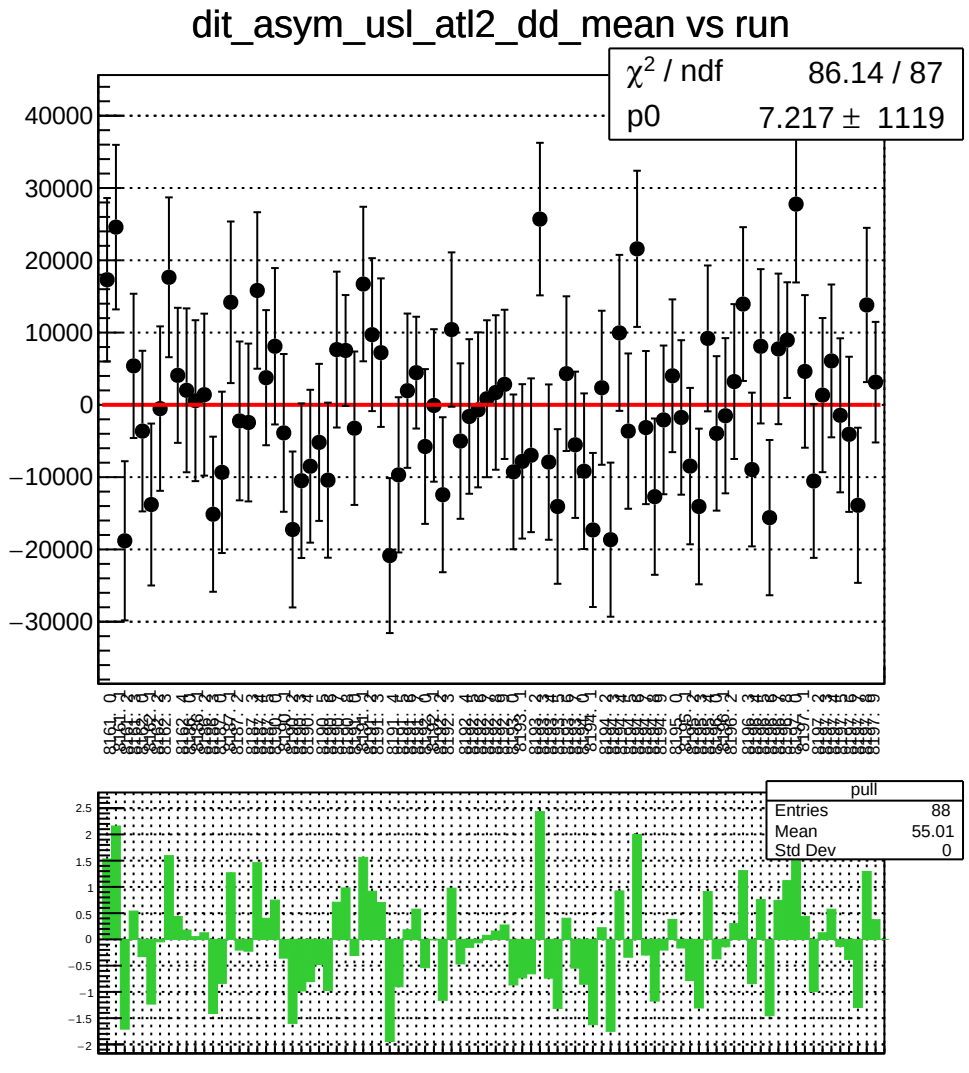

pull1D
Entries 88
Mean −0.01389
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

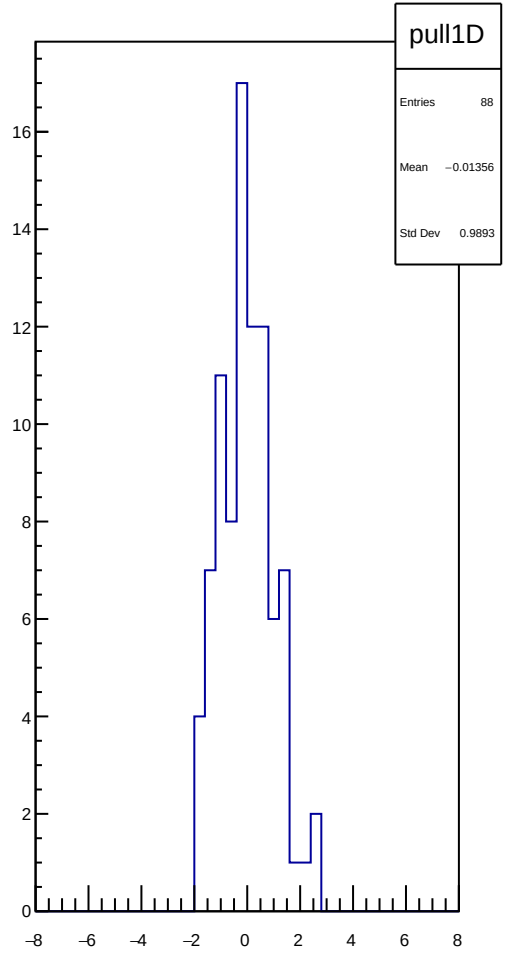

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 677.4 / 87
p0 1013 ± 0.7849
1080
1060
1040
1020
1000
980
960
940


asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.58 / 87
p0 −391.7 ± 5053
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −342.1
Std Dev 0
2
1
0
−1
−2

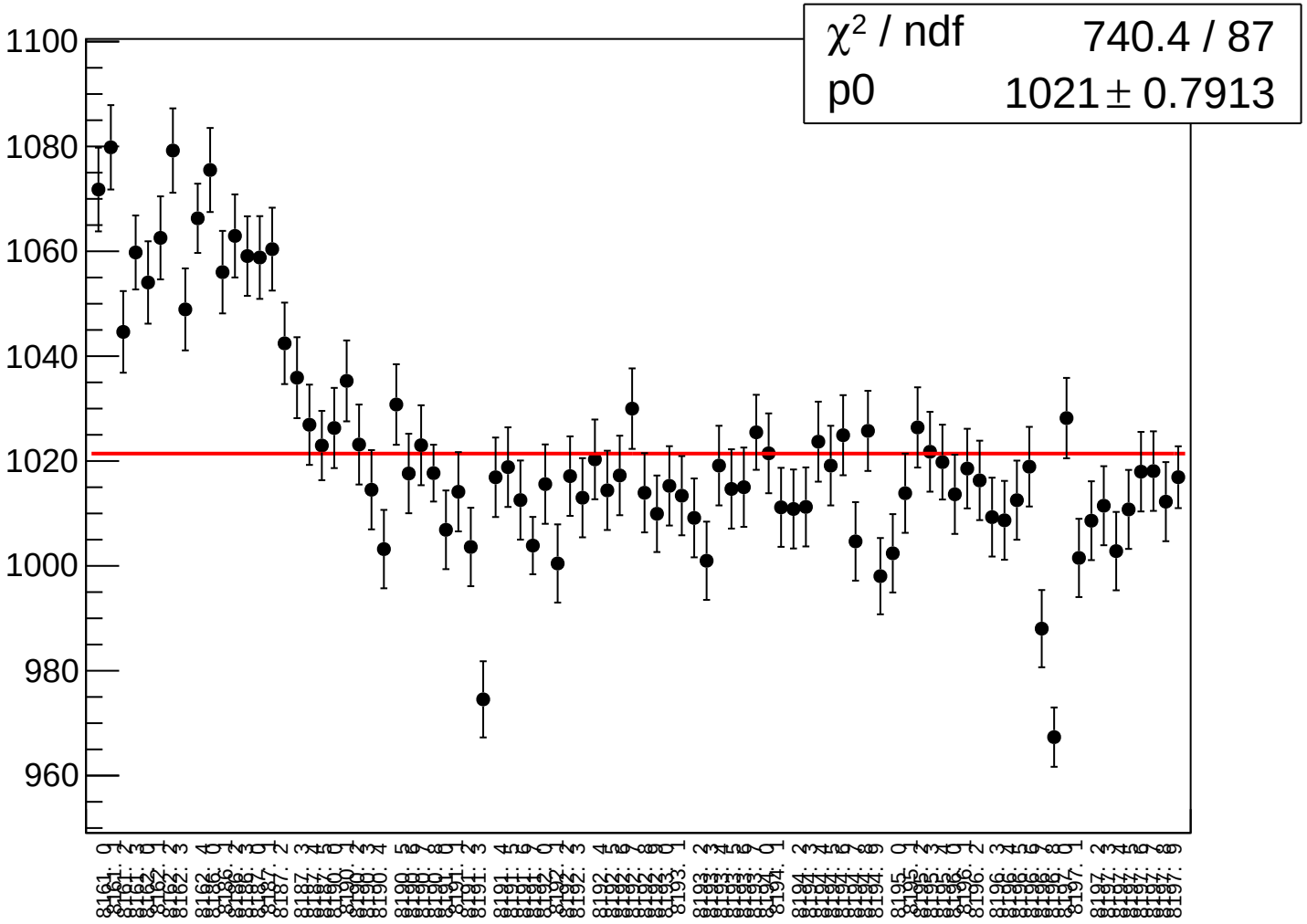

pull1D
Entries 88
Mean −0.004193
Std Dev 0.945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

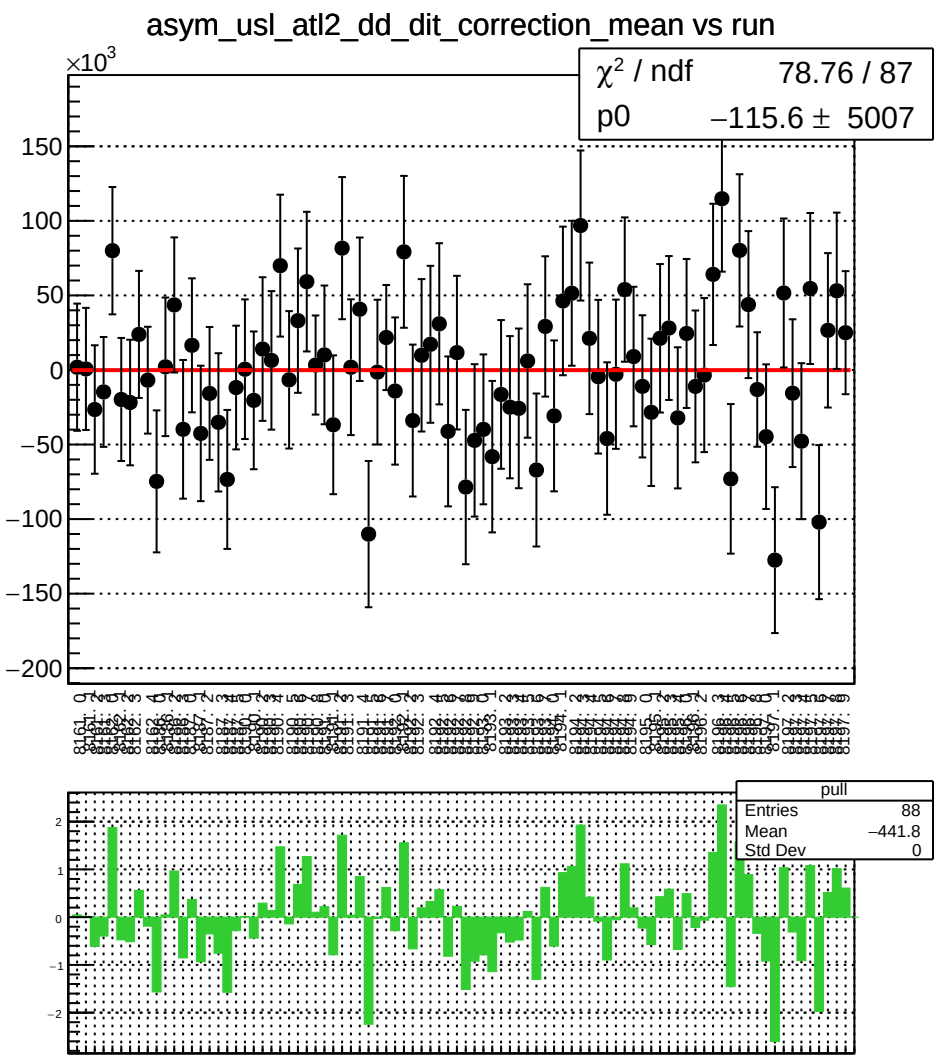

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7439 / 87
p0 4603 ± 3.573
5200
5000
4800
4600
4400
4200
4000
3800

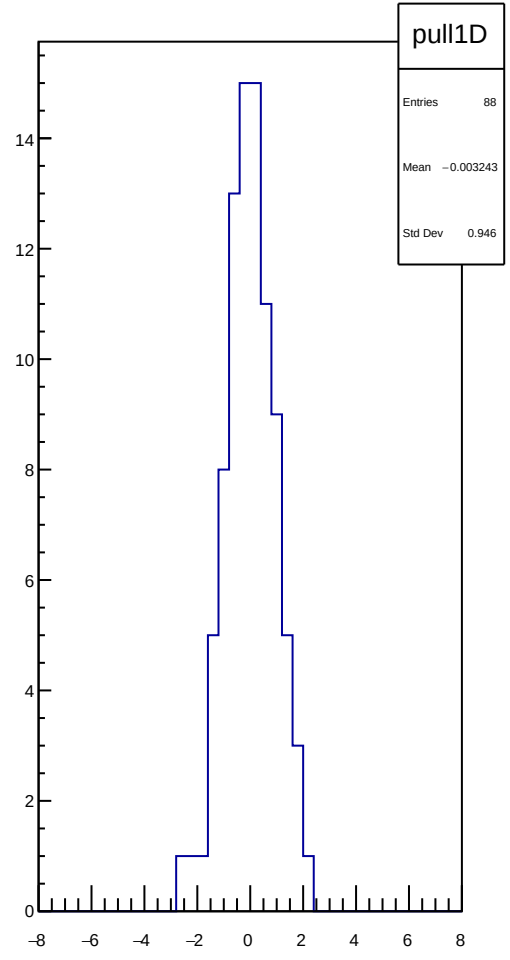

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 86.14 / 87
p0 7.217 ± 1119
pull
Entries 88
Mean 55.01
Std Dev 0

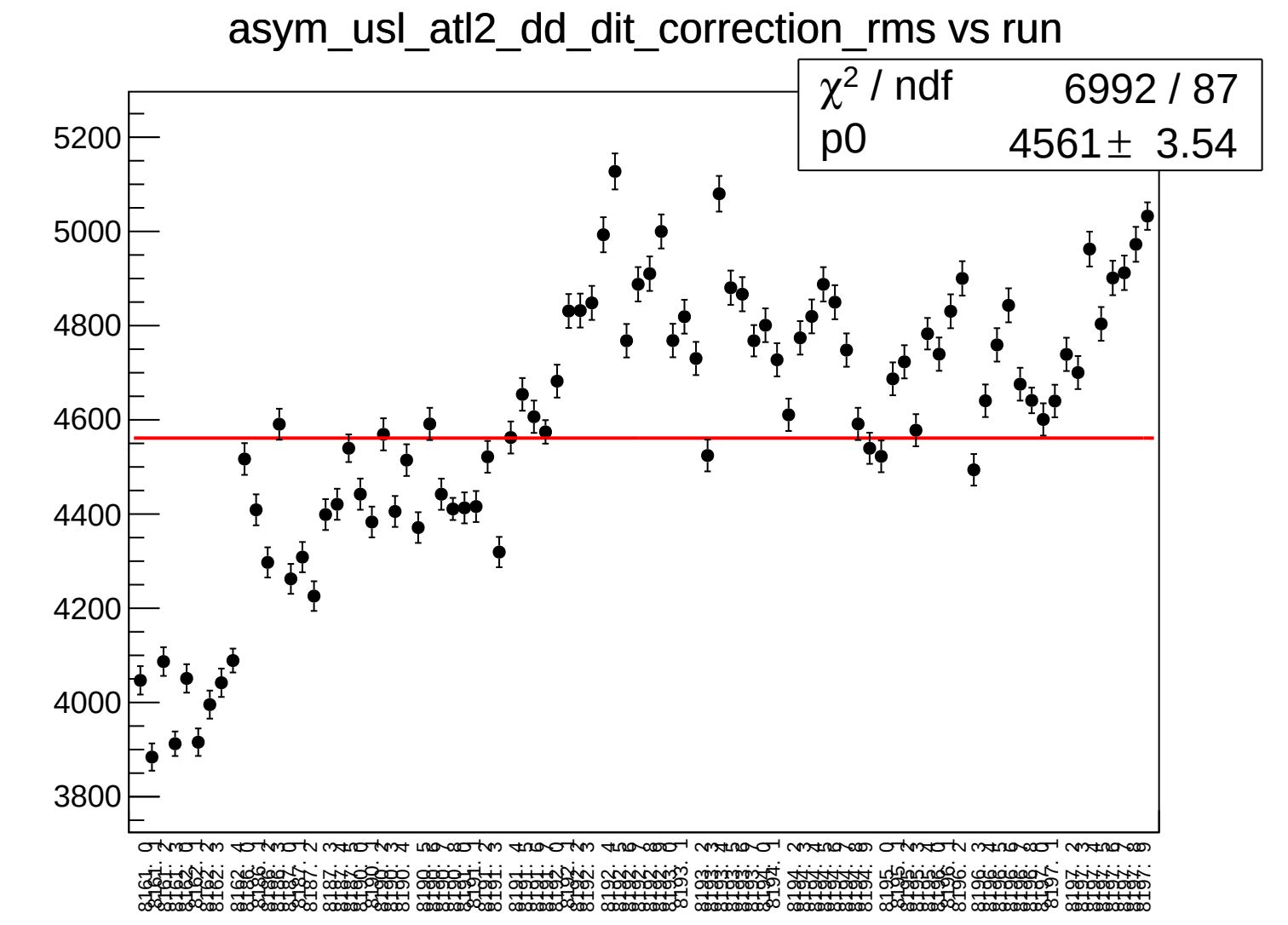

pull1D
Entries 88
Mean −0.01356
Std Dev 0.9893

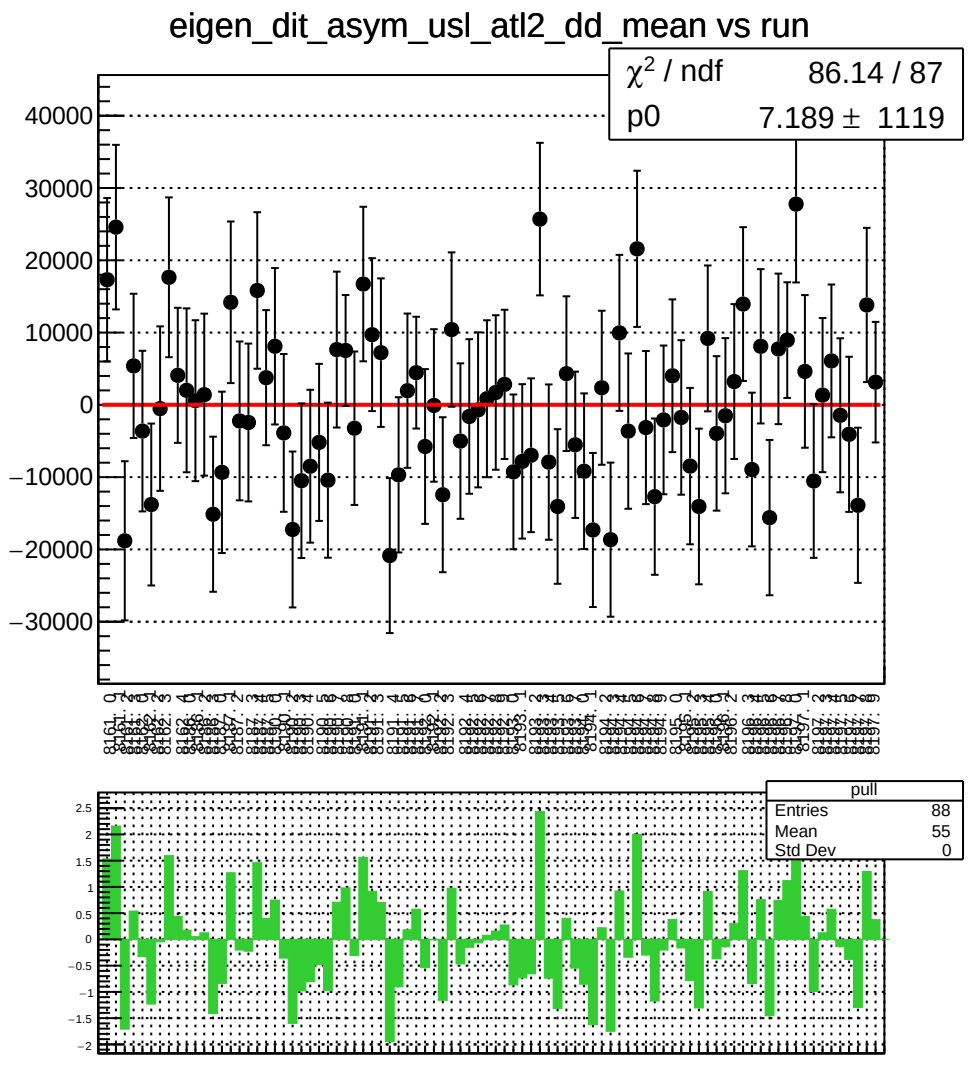
dit_asym_usl_atl2_dd_rms vs run

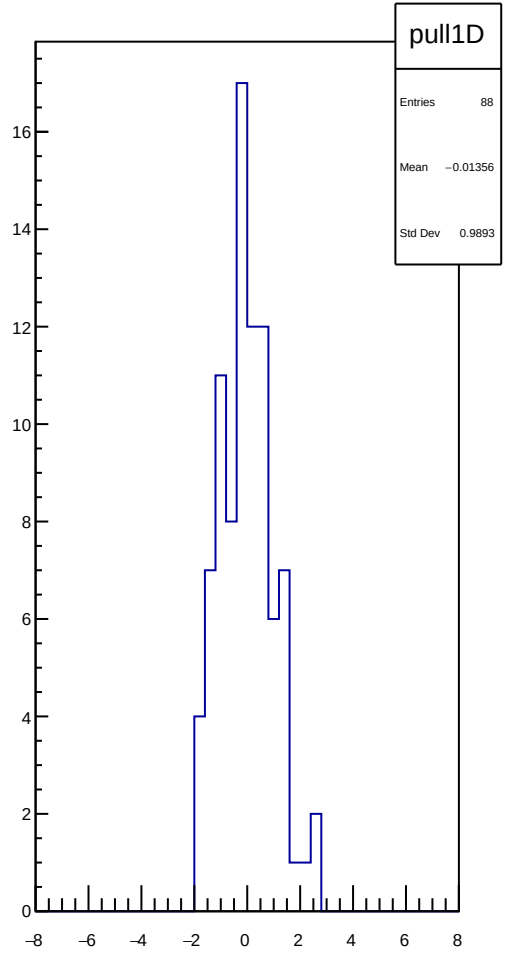


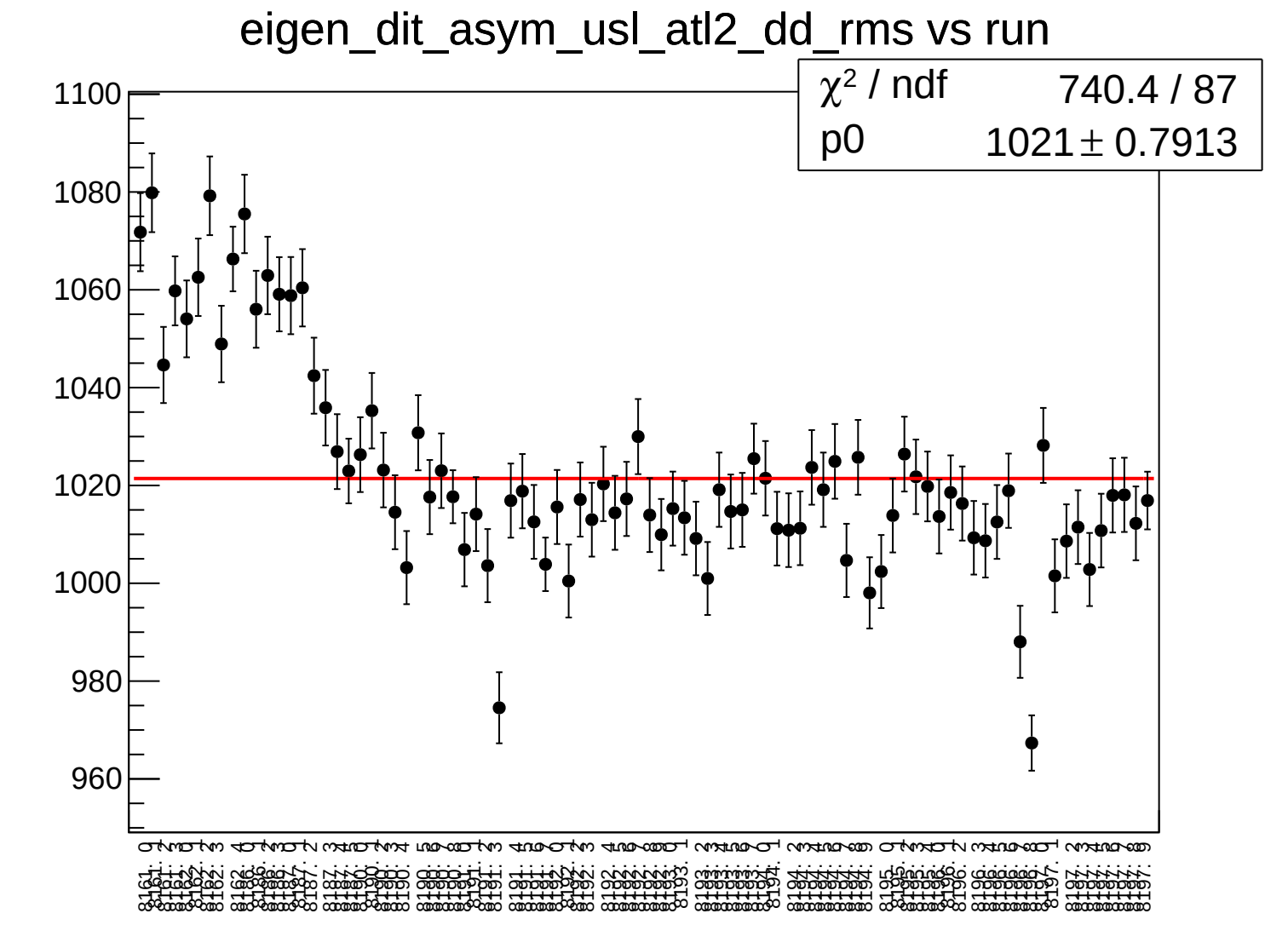

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 78.76 / 87
p0 −115.6 ± 5007
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −441.8
Std Dev 0
2
1
0
−1
−2

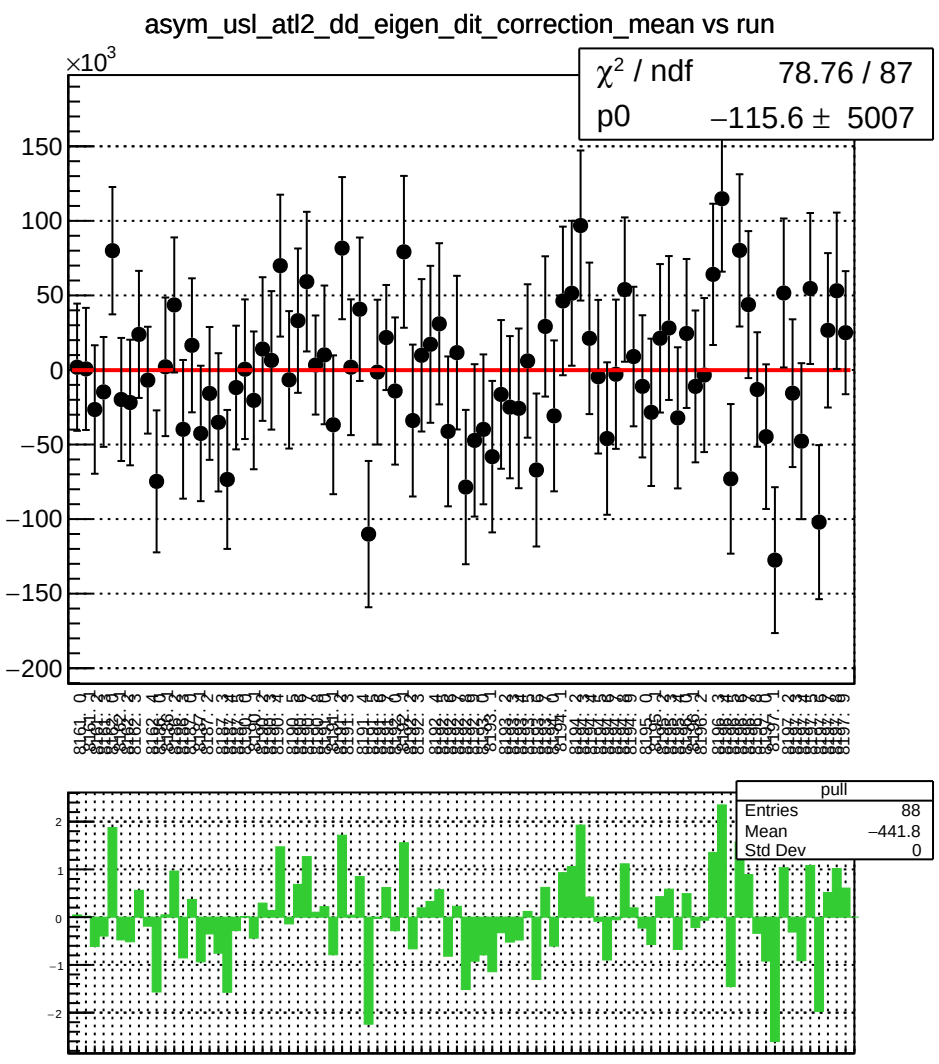

pull1D
Entries 88
Mean −0.003243
Std Dev 0.946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

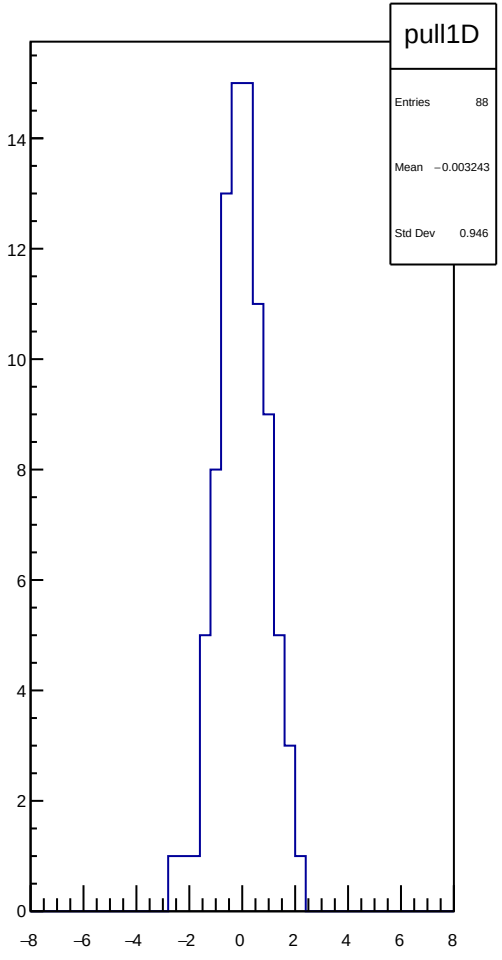

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 6992 / 87
p0 4561 ± 3.54
5200
5000
4800
4600
4400
4200
4000
3800

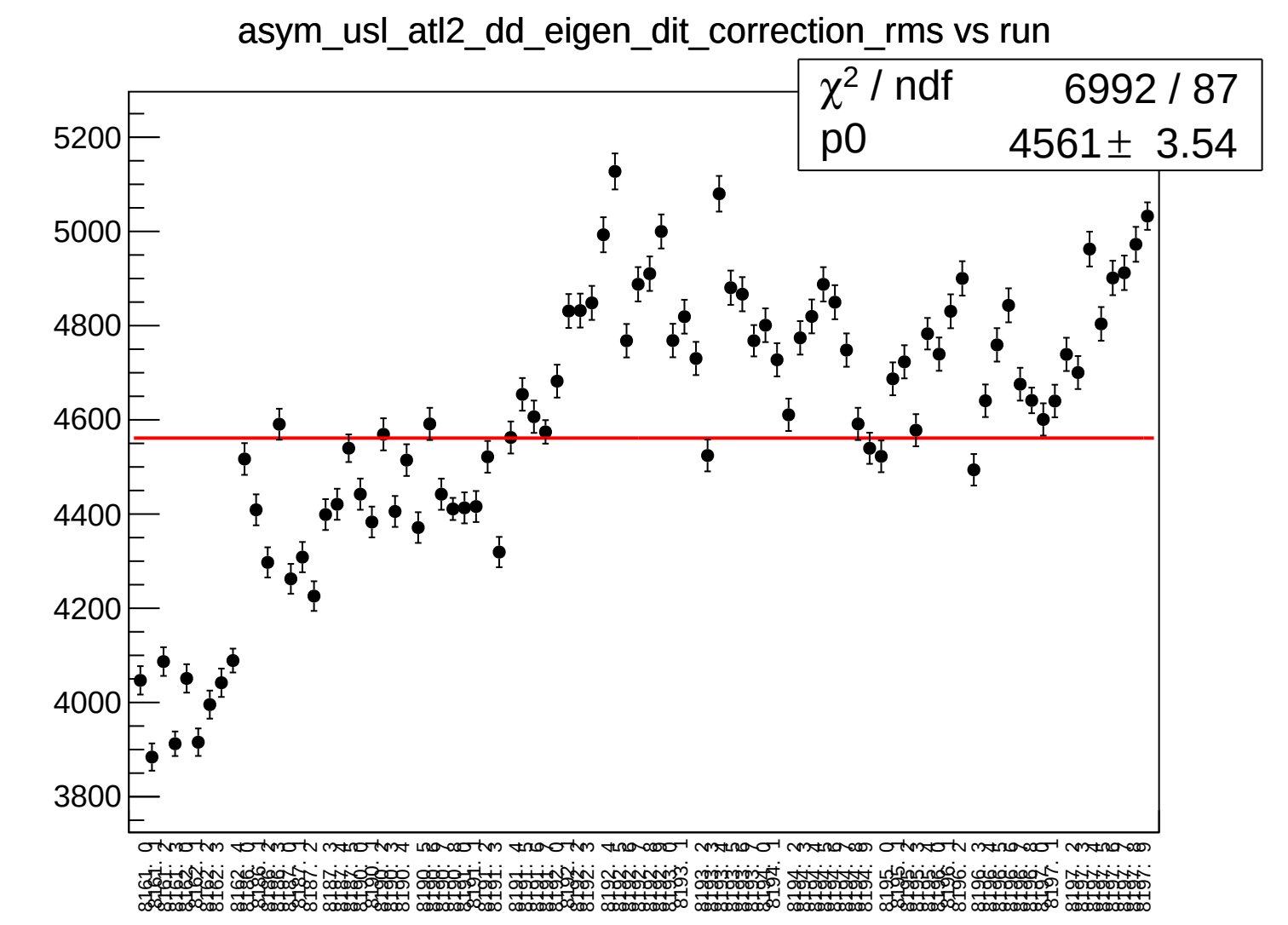

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 86.14 / 87
p0 7.189 ± 1119
pull
Entries 88
Mean 55
Std Dev 0

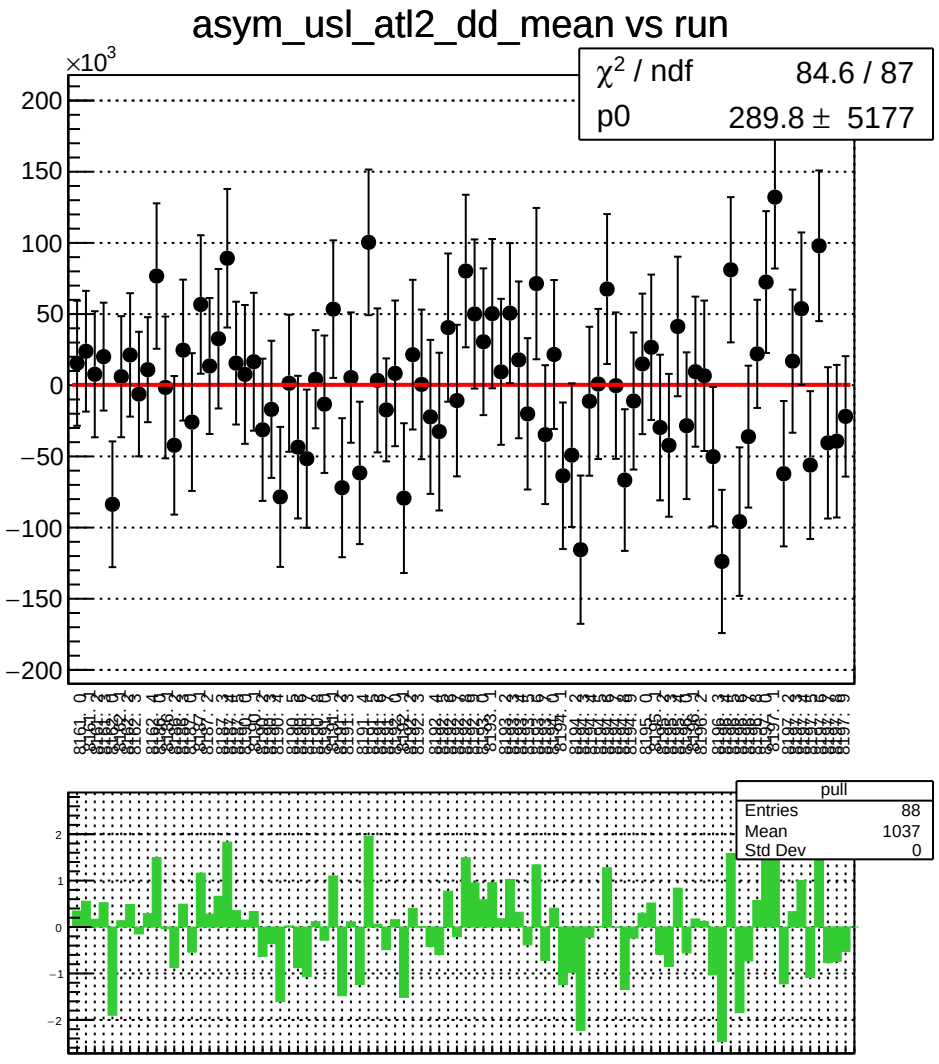

pull1D
Entries 88
Mean −0.01356
Std Dev 0.9893

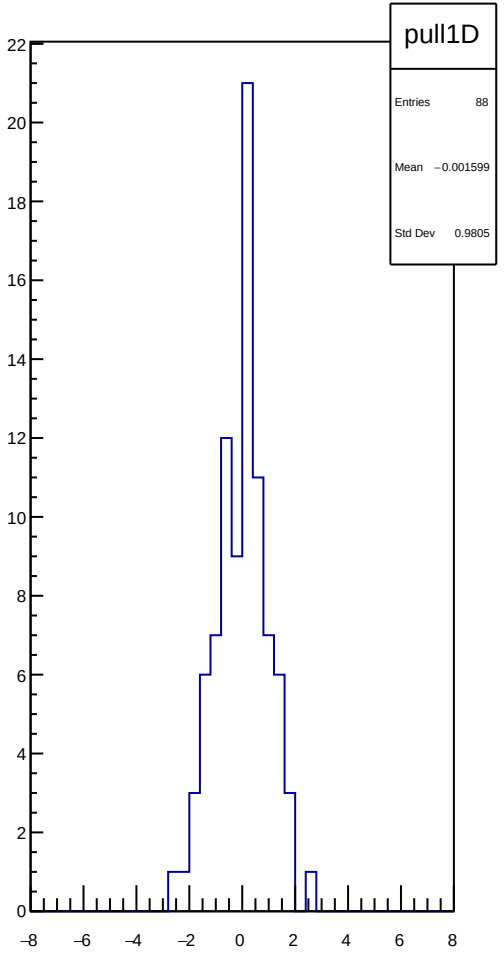

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 740.4 / 87
p0 1021 ± 0.7913
1100
1080
1060
1040
1020
1000
980
960

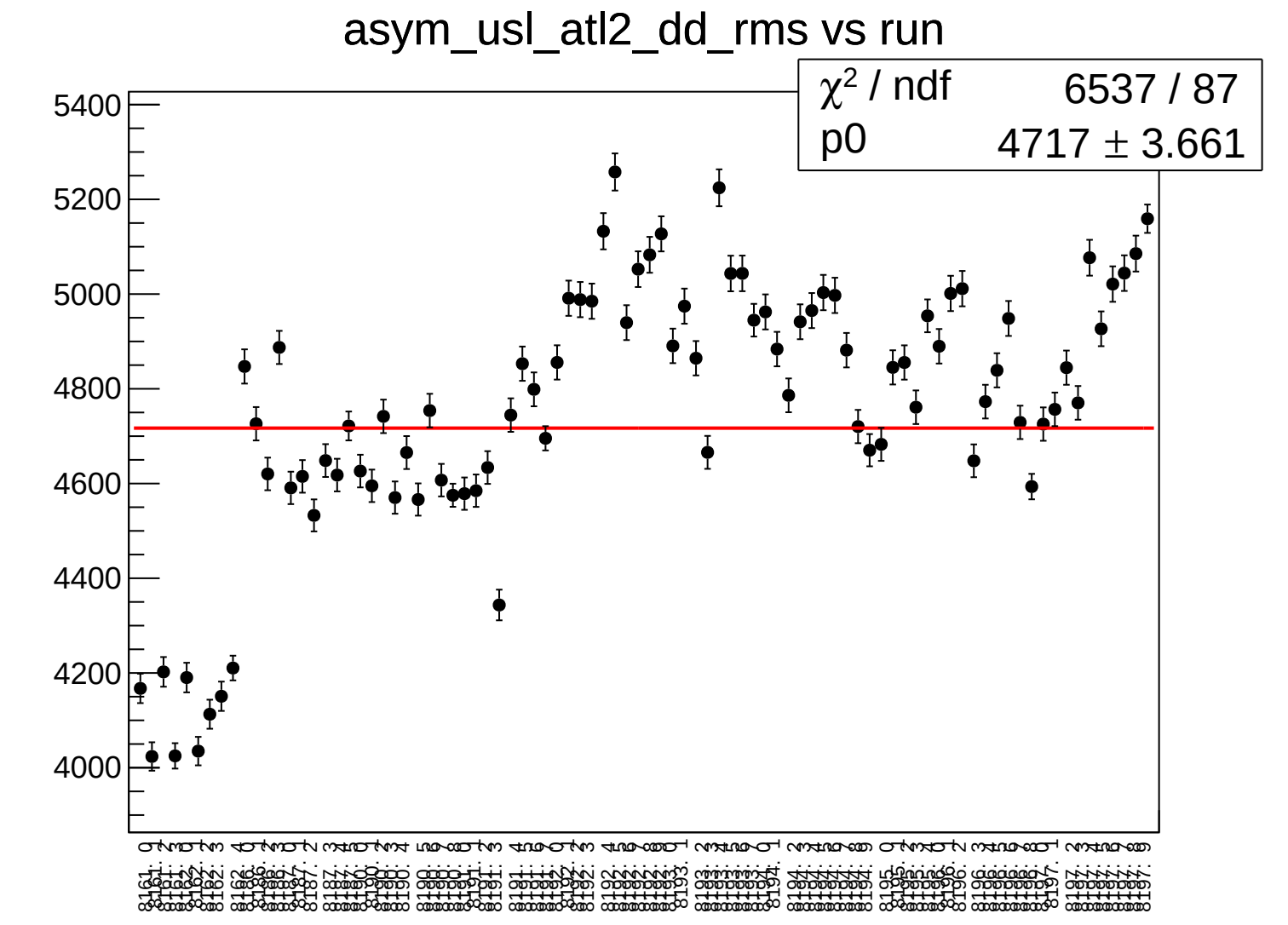

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.76 / 87
p0 −115.6 ± 5007
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −441.8
Std Dev 0
2
1
0
−1
−2

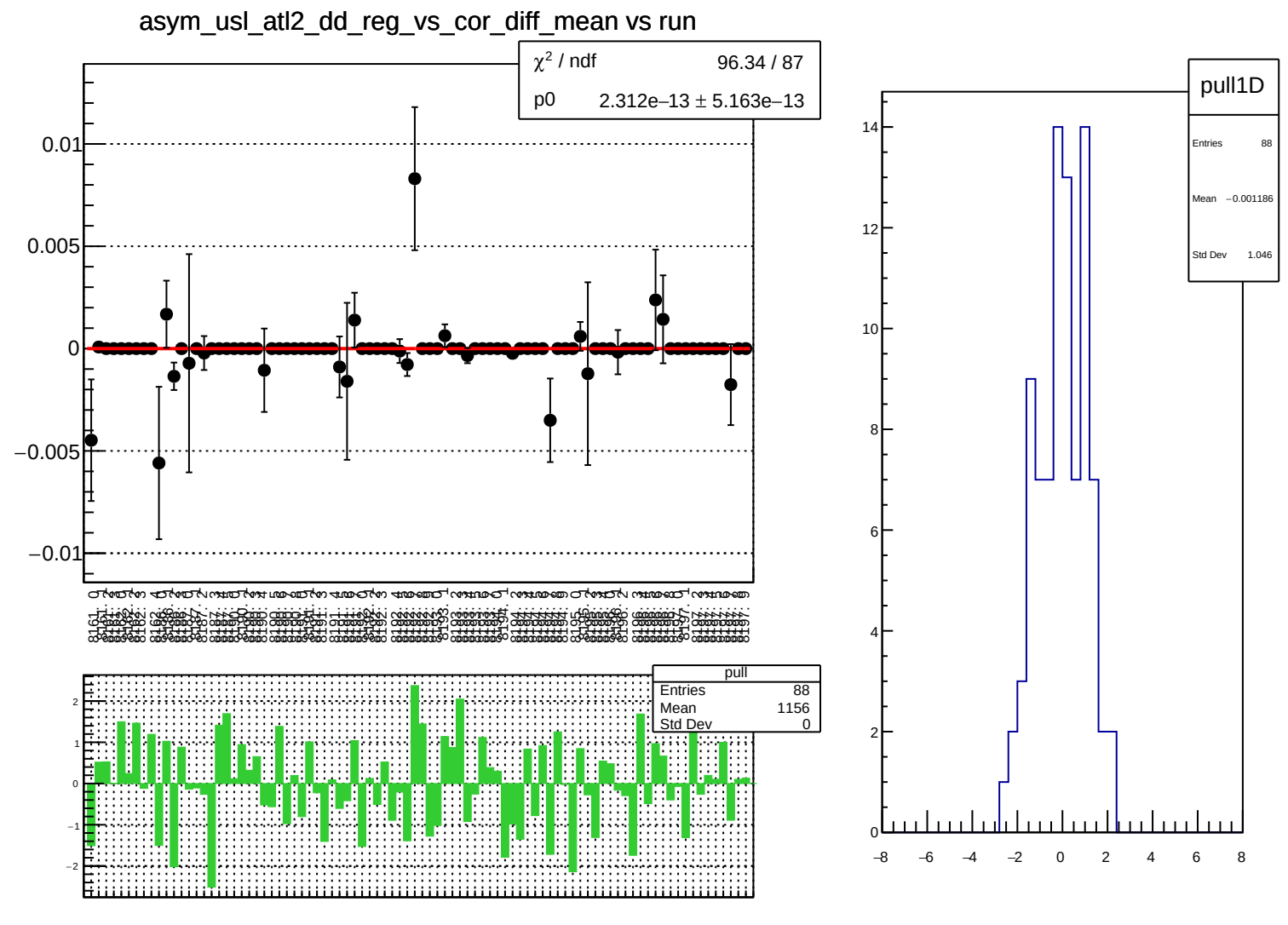

pull1D
Entries 88
Mean −0.003243
Std Dev 0.946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

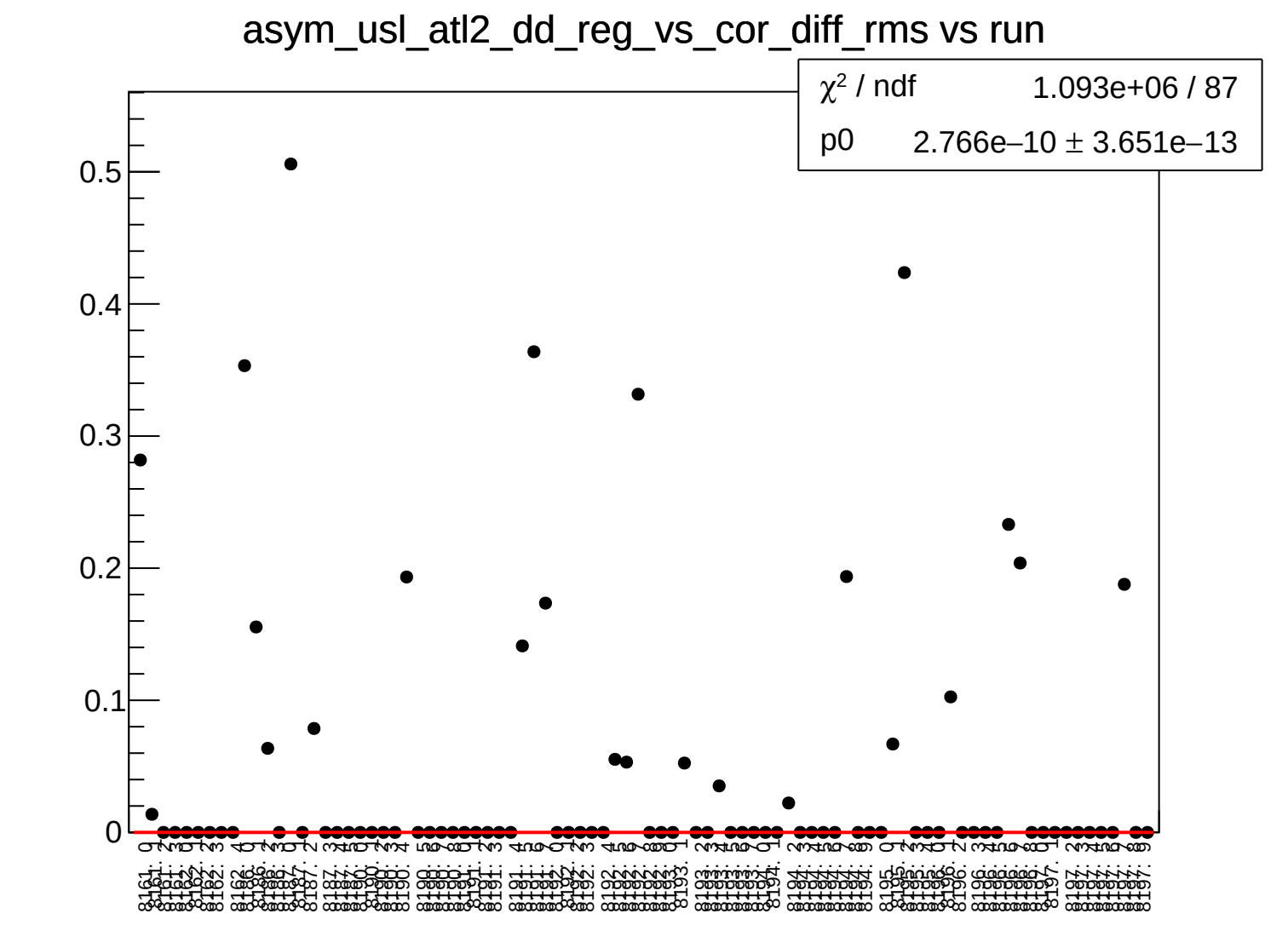

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6992 / 87
p0 4561 ± 3.54
5200
5000
4800
4600
4400
4200
4000
3800

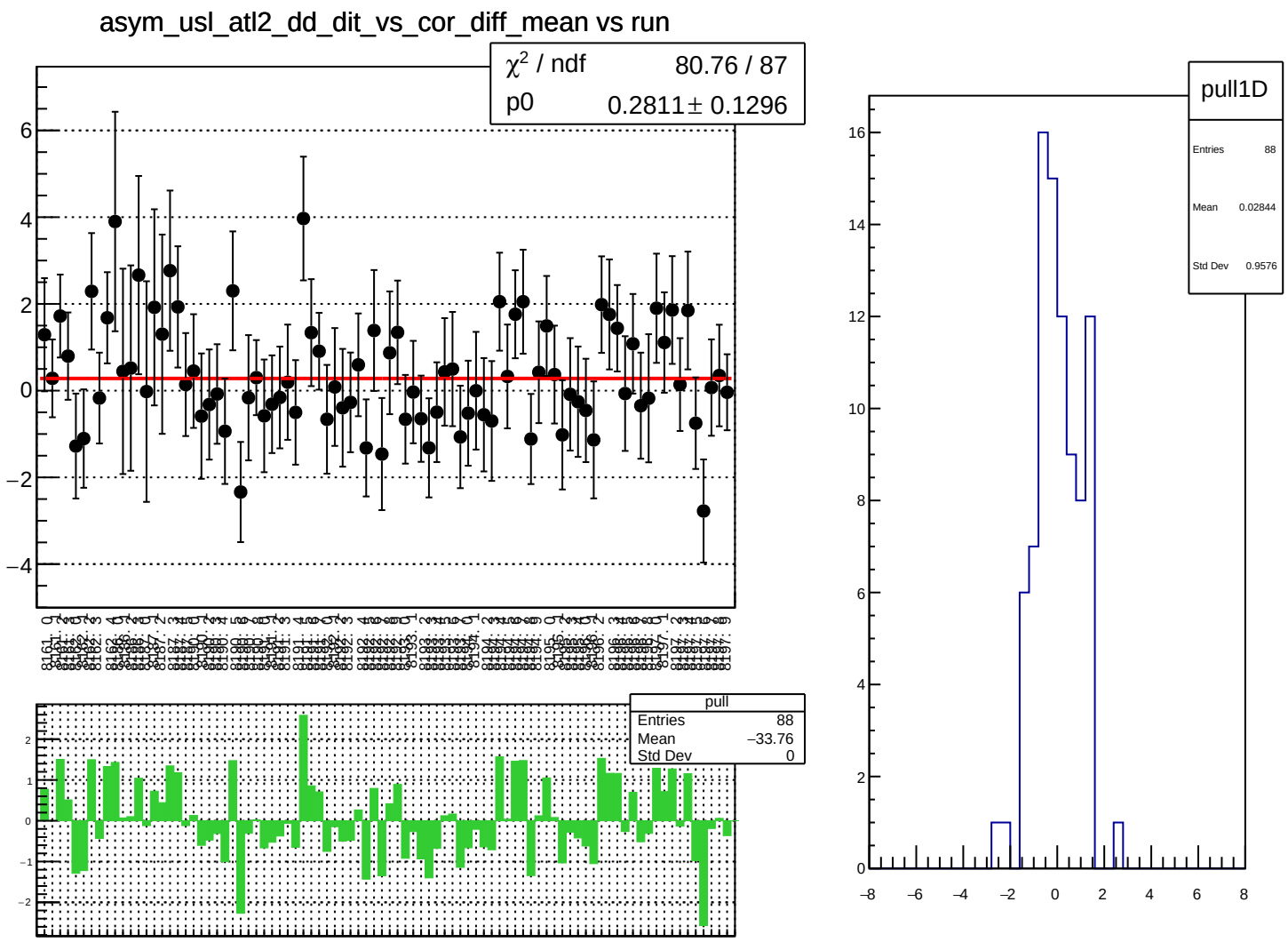

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 84.6 / 87
p0 289.8 ± 5177
pull
Entries 88
Mean 1037
Std Dev 0

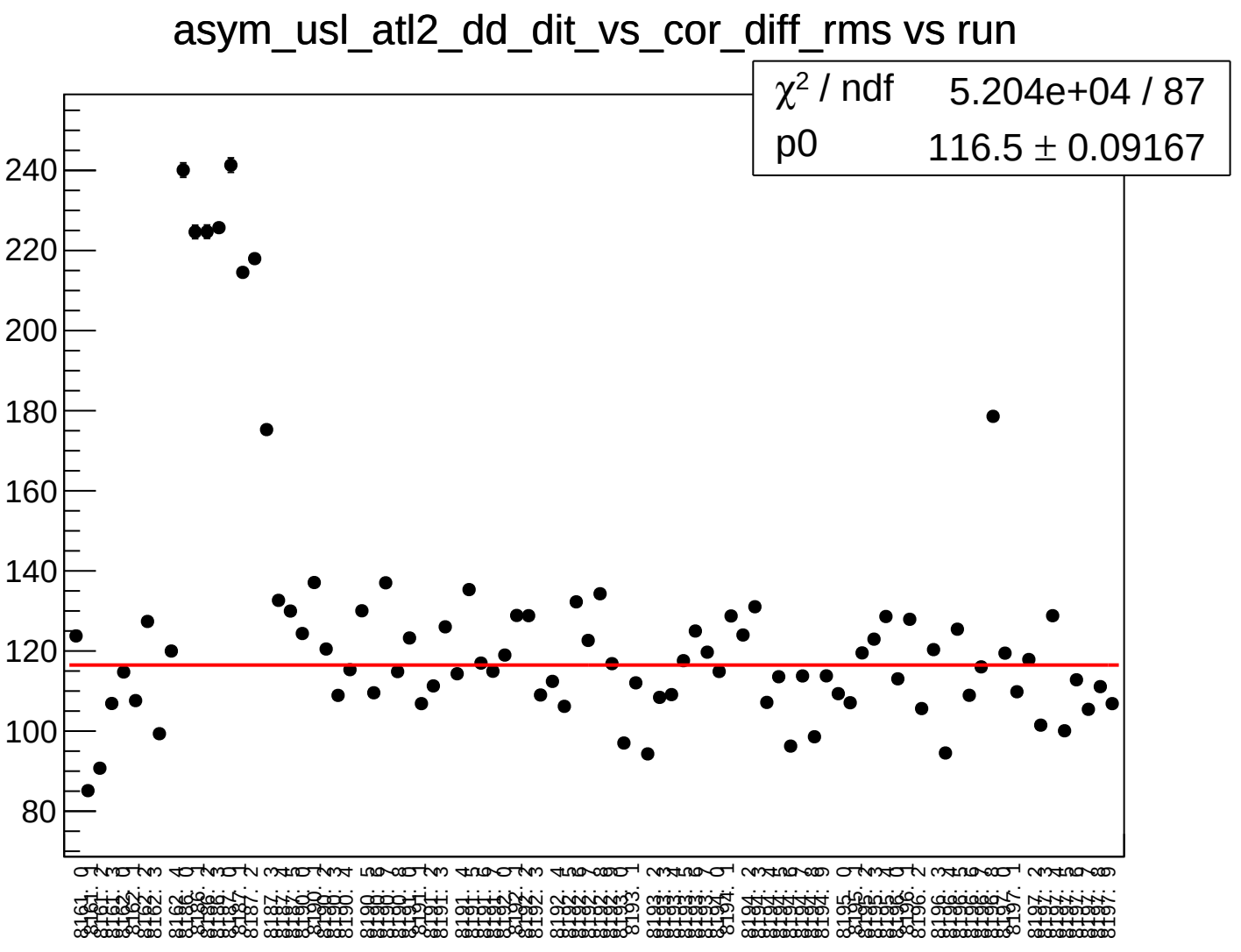

pull1D
Entries 88
Mean −0.001599
Std Dev 0.9805

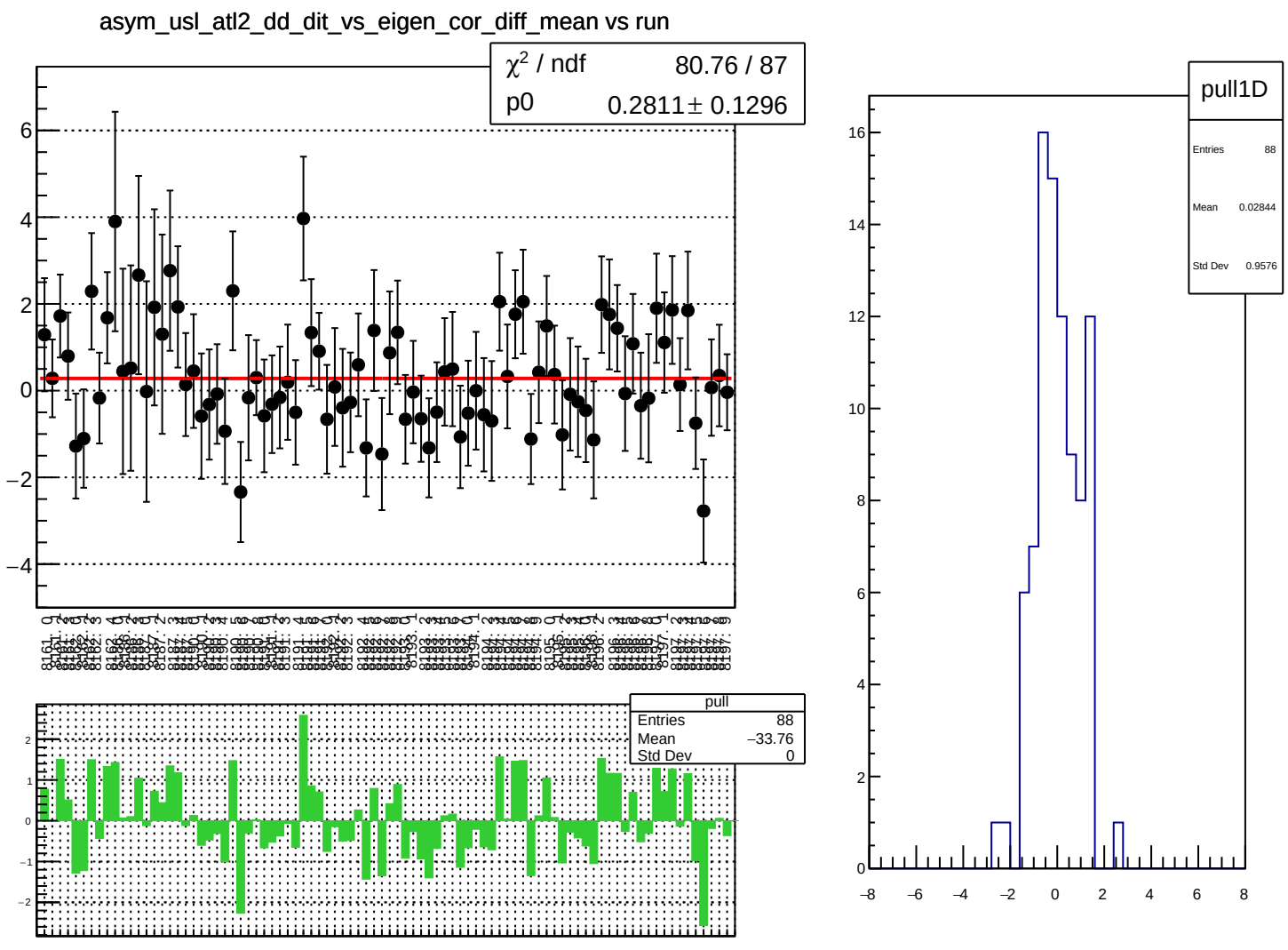

asym_usl_atl2_dd_rms vs run
χ² / ndf 6537 / 87
p0 4717 ± 3.661
5400
5200
5000
4800
4600
4400
4200
4000

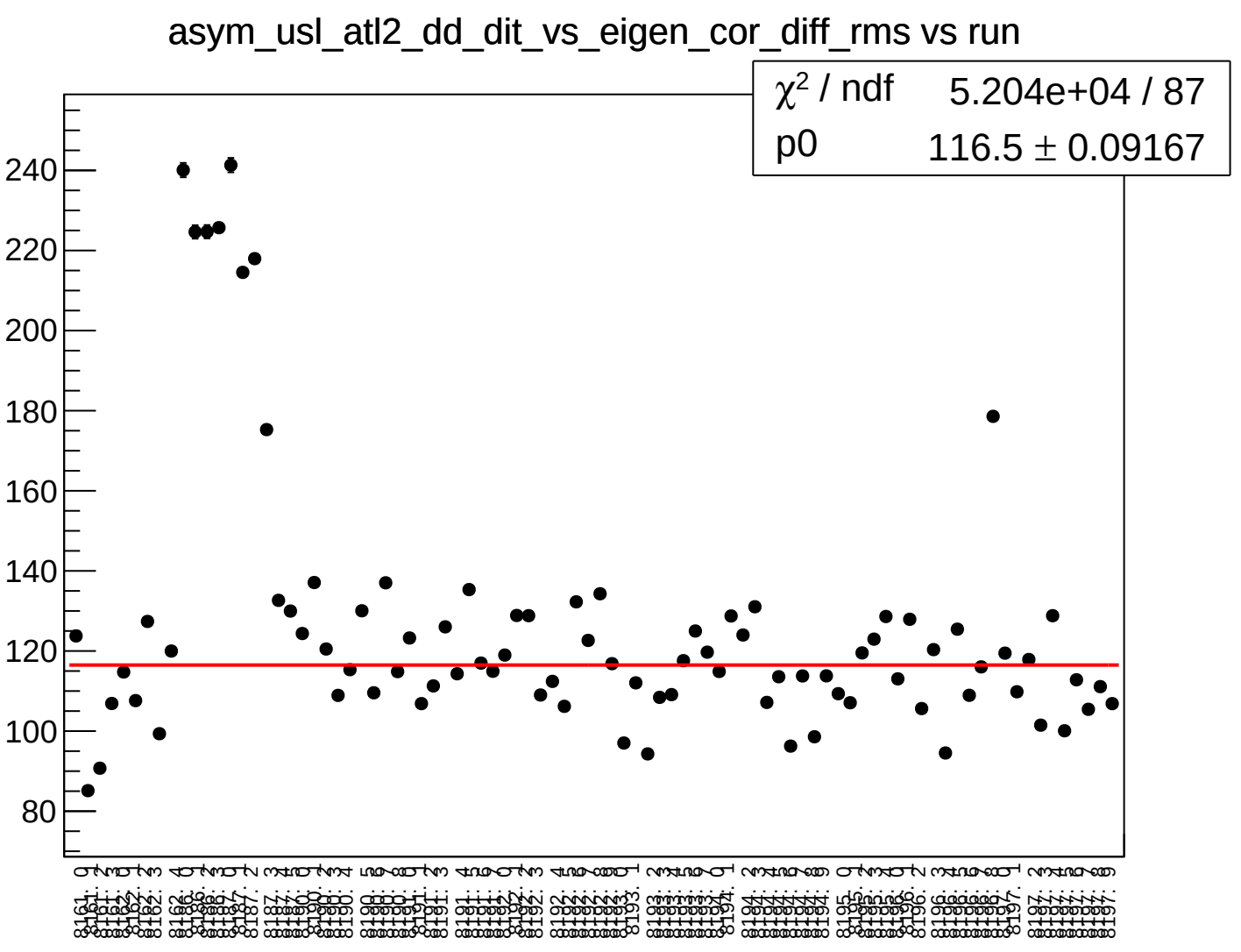

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.34 / 87
p0 2.312e−13 ± 5.163e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 1156
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001186
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

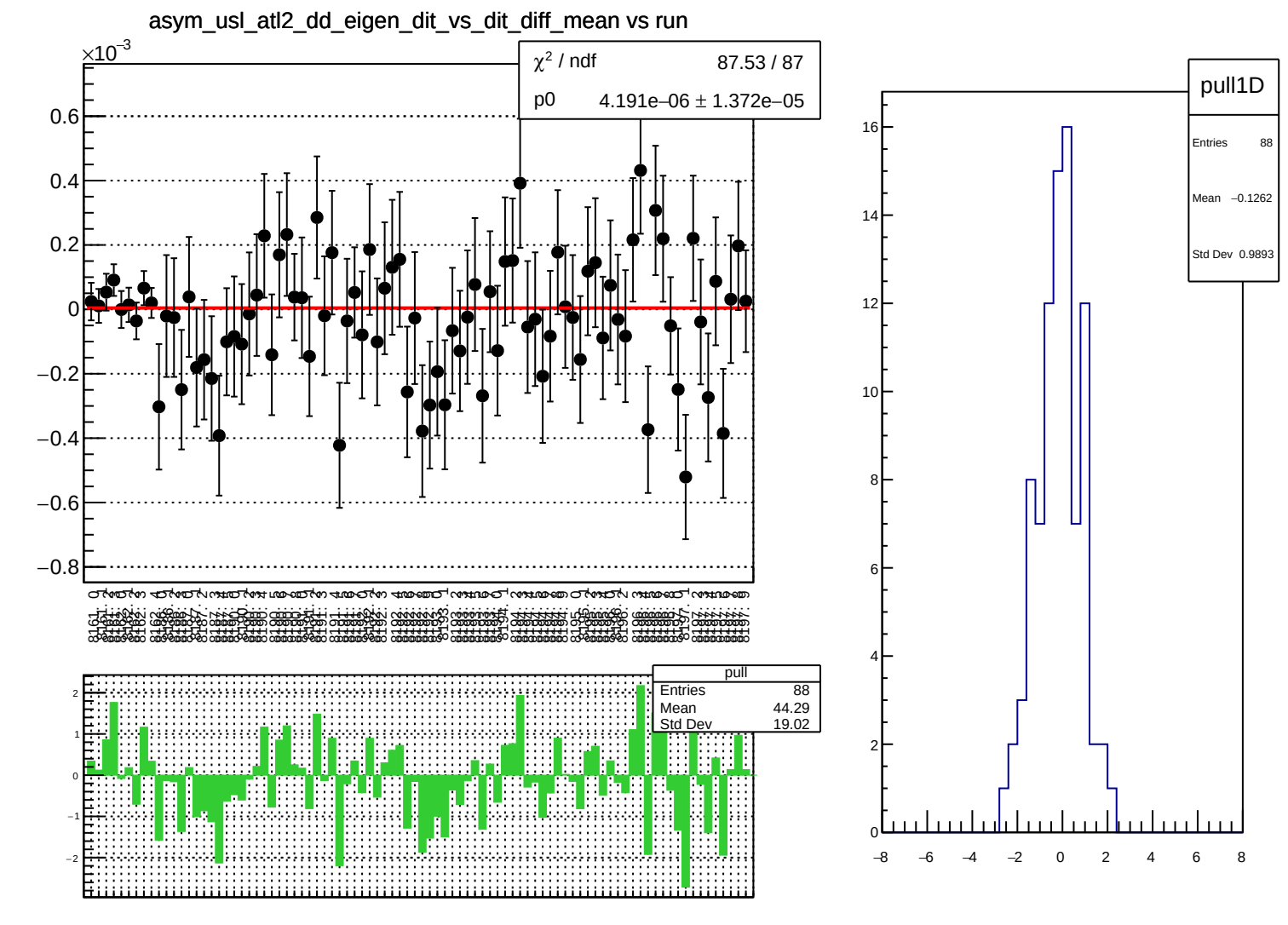

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 87
p0 2.766e−10 ± 3.651e−13
0.5
0.4
0.3
0.2
0.1
0

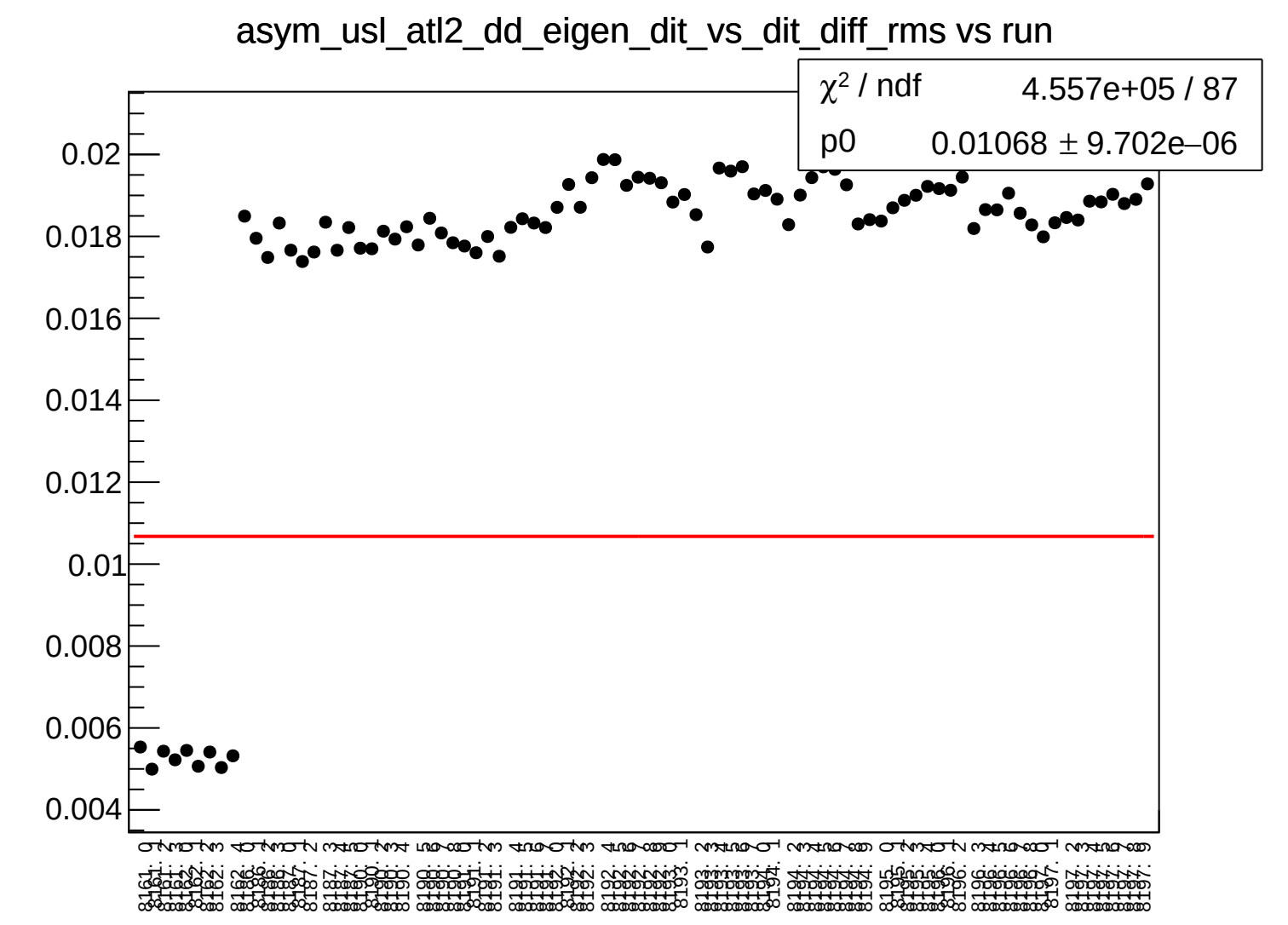

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.76 / 87
p0 0.2811 ± 0.1296
pull
Entries 88
Mean −33.76
Std Dev 0
pull1D
Entries 88
Mean 0.02844
Std Dev 0.9576

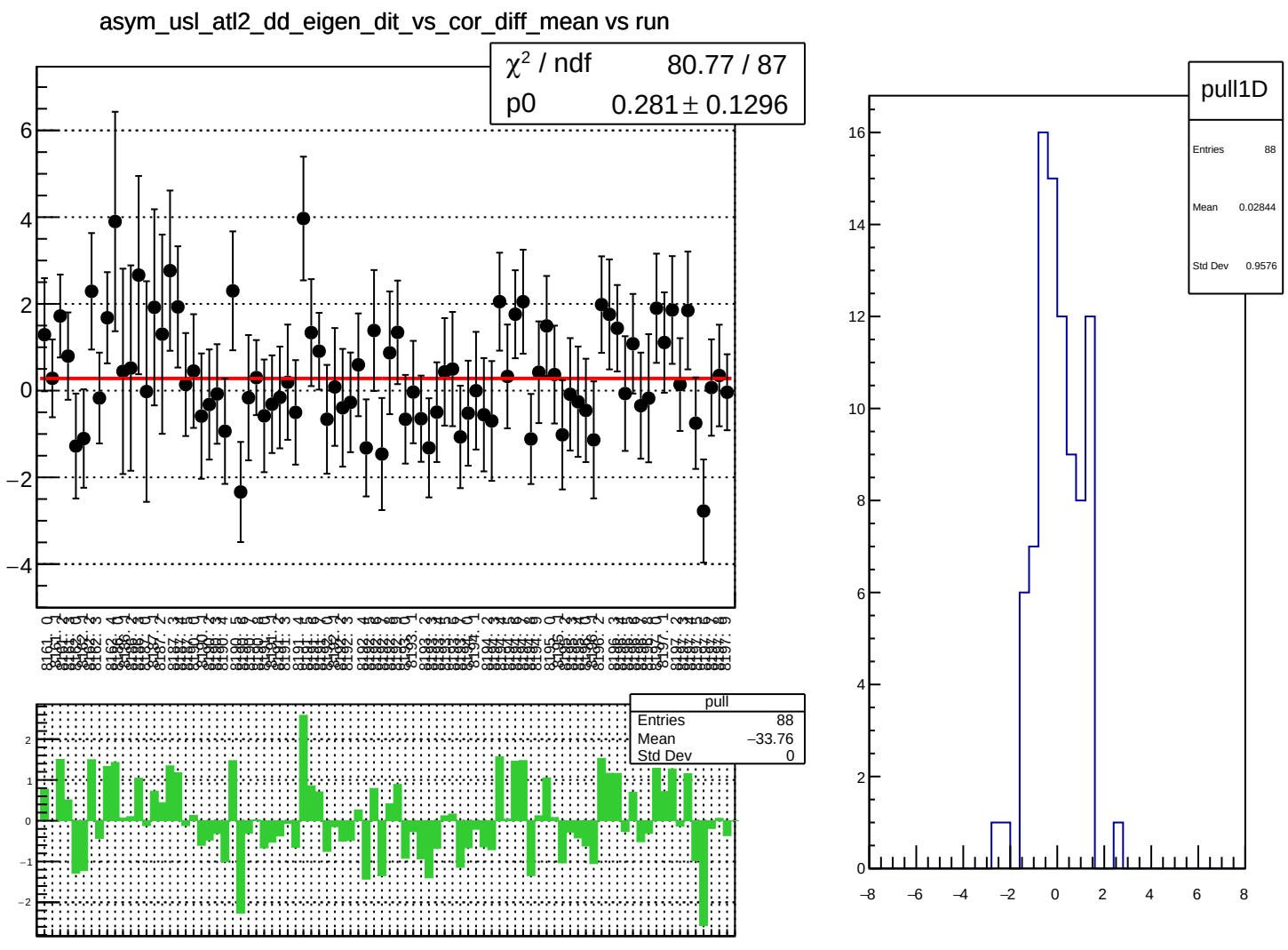

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.204e+04 / 87
p0 116.5 ± 0.09167
240
220
200
180
160
140
120
100
80

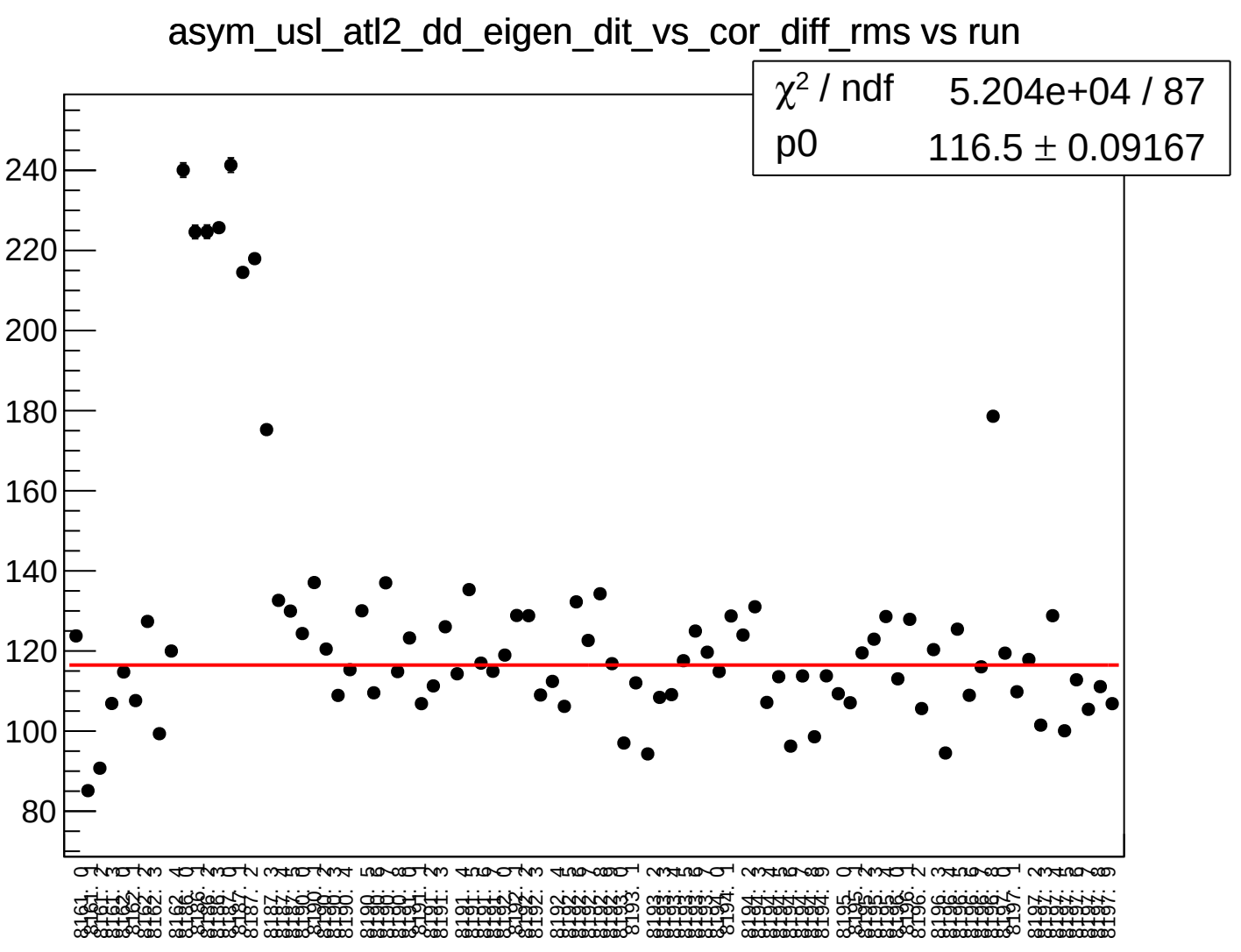

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.76 / 87
p0 0.2811 ± 0.1296
pull
Entries 88
Mean −33.76
Std Dev 0
pull1D
Entries 88
Mean 0.02844
Std Dev 0.9576

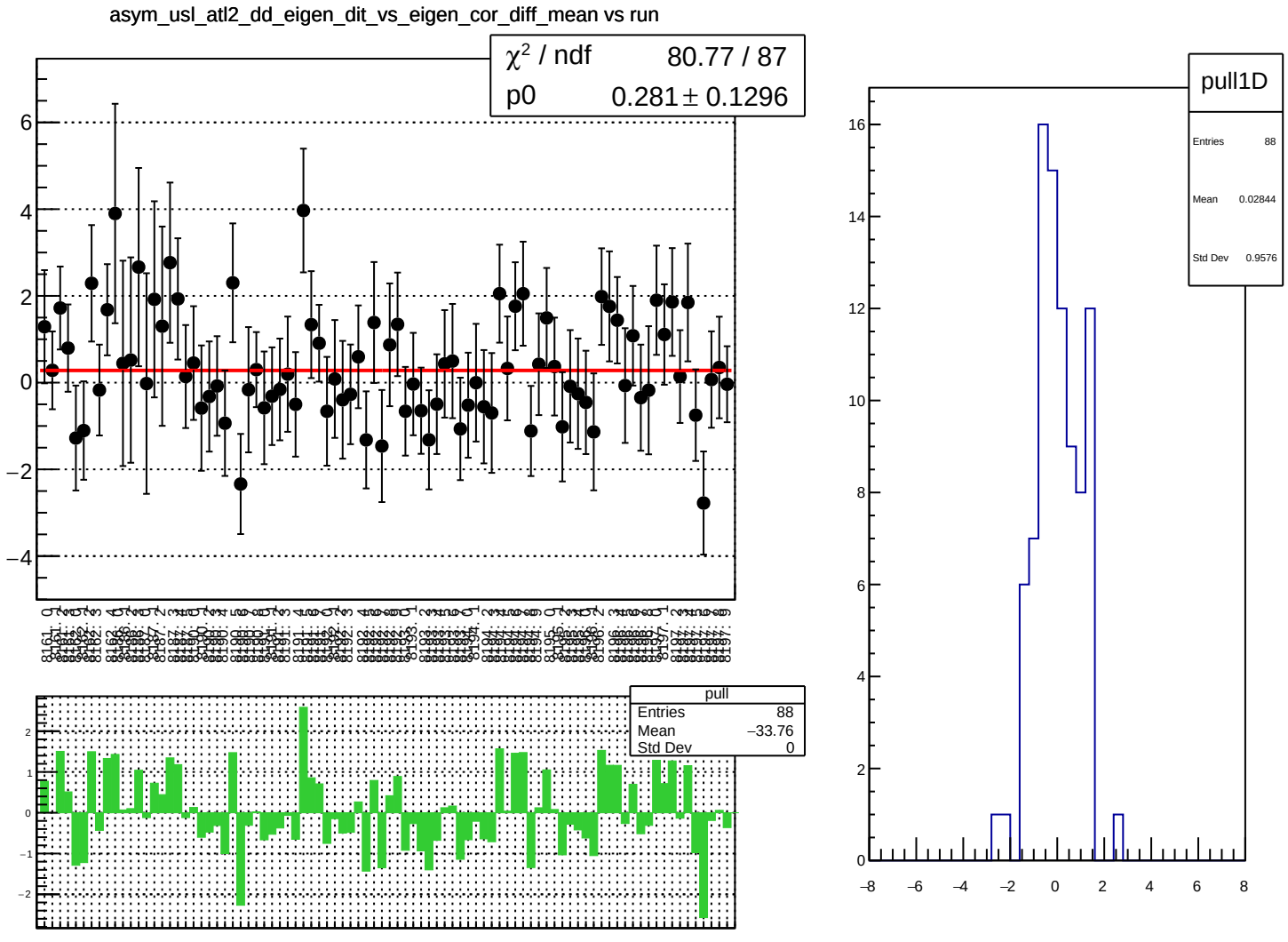

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.204e+04 / 87
p0 116.5 ± 0.09167
240
220
200
180
160
140
120
100
80

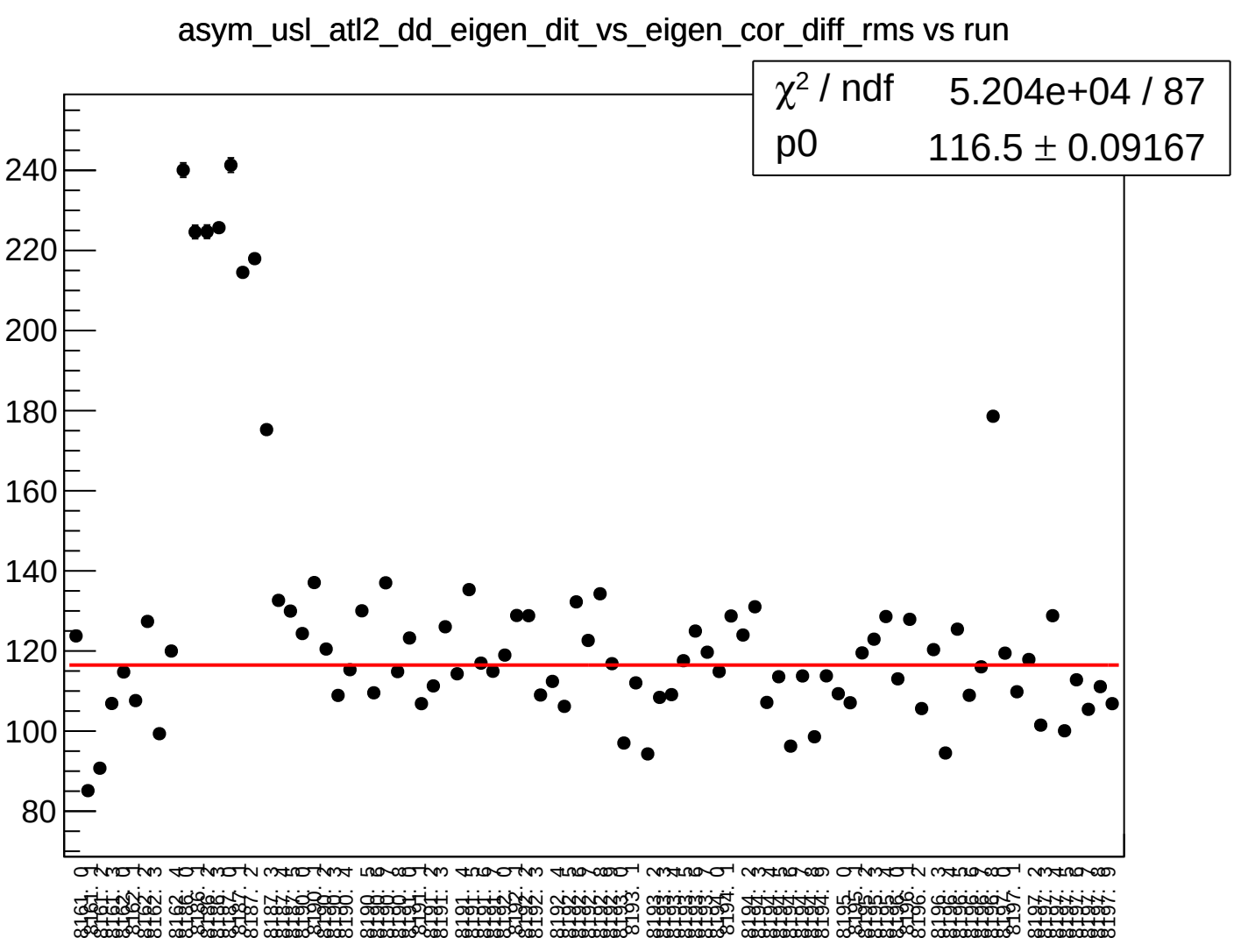

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.53 / 87
p0 4.191e−06 ± 1.372e−05
pull
Entries 88
Mean 44.29
Std Dev 19.02
pull1D
Entries 88
Mean −0.1262
Std Dev 0.9893

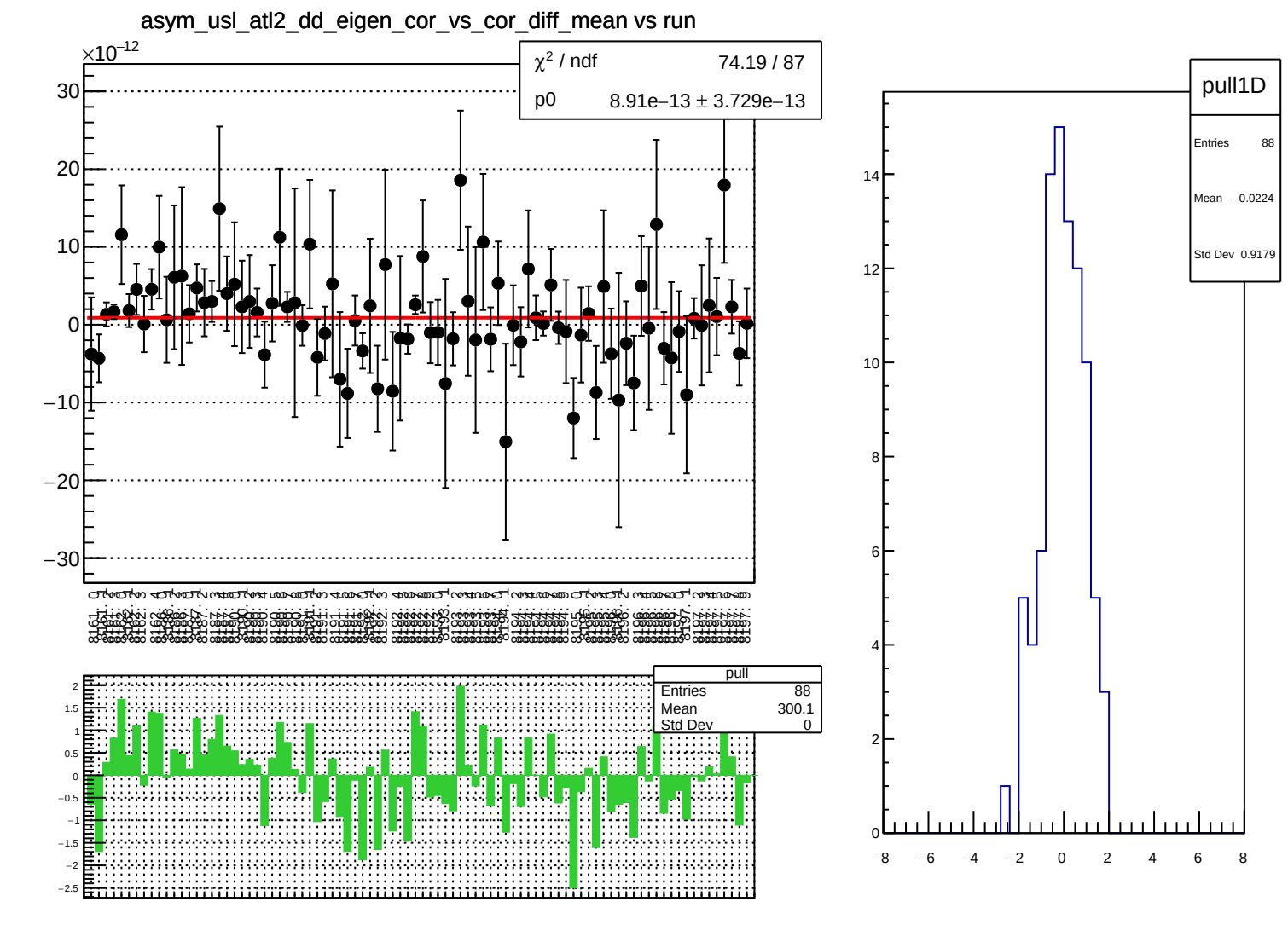

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.557e+05 / 87
p0 0.01068 ± 9.702e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

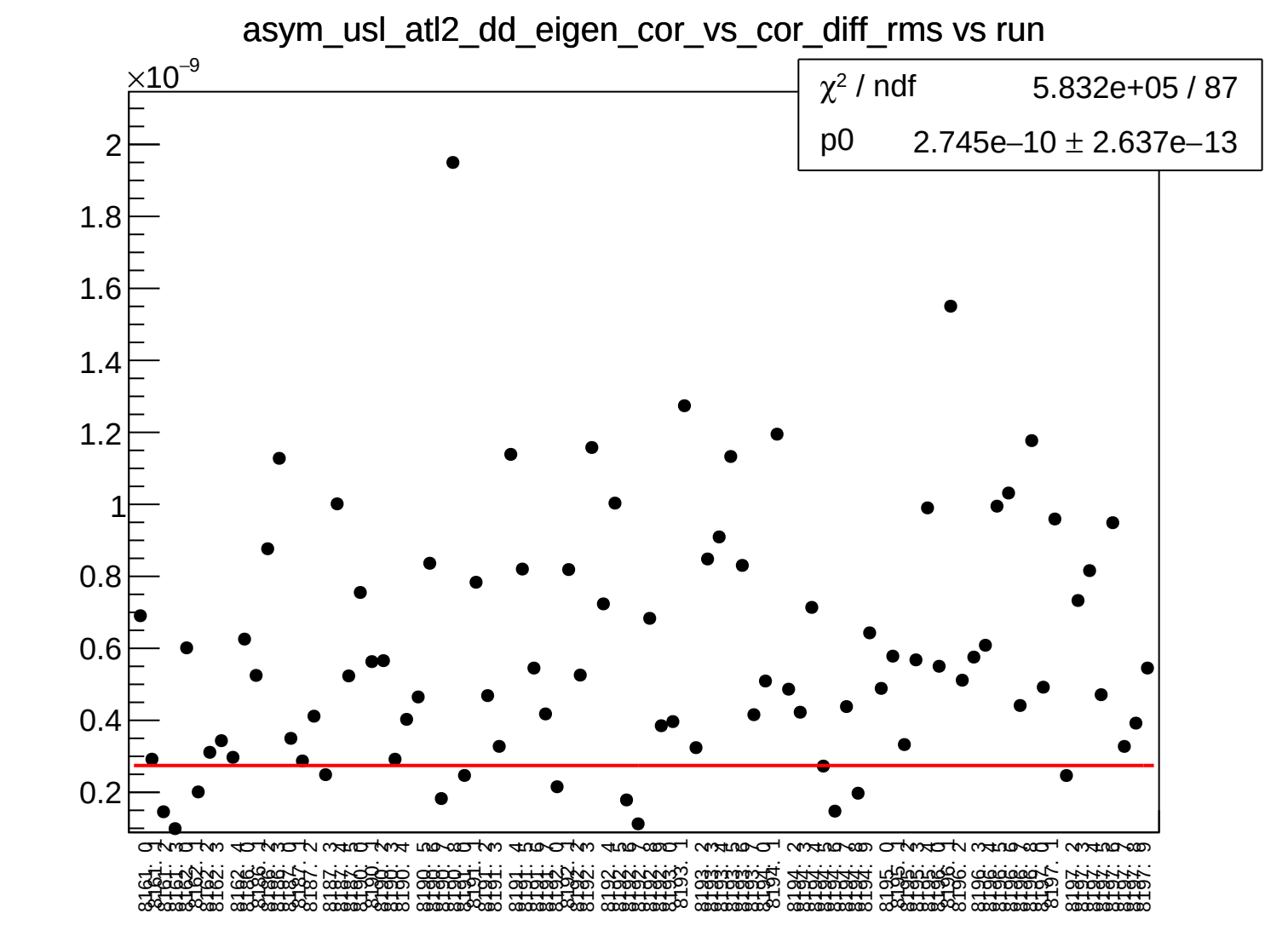

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.77 / 87
p0 0.281 ± 0.1296
pull
Entries 88
Mean −33.76
Std Dev 0
pull1D
Entries 88
Mean 0.02844
Std Dev 0.9576

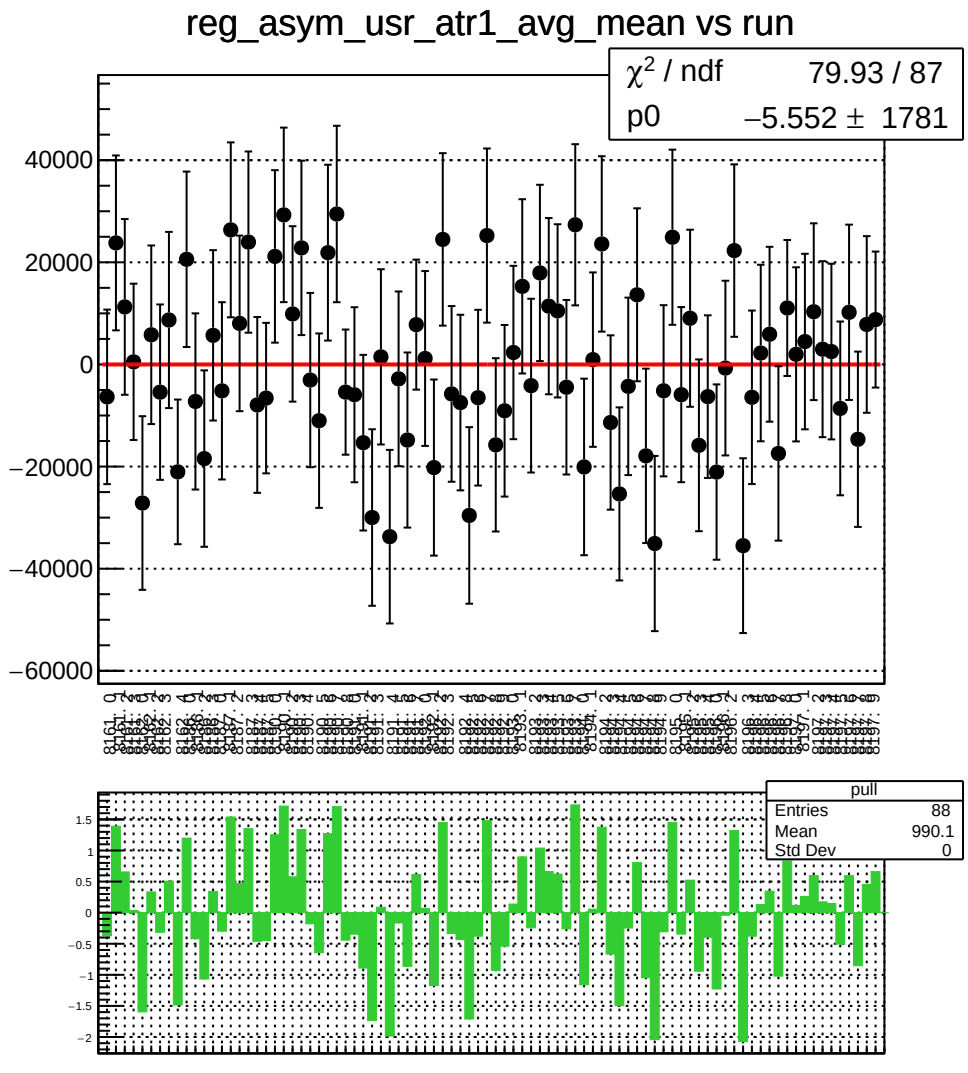

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.204e+04 / 87
p0 116.5 ± 0.09167
240
220
200
180
160
140
120
100
80

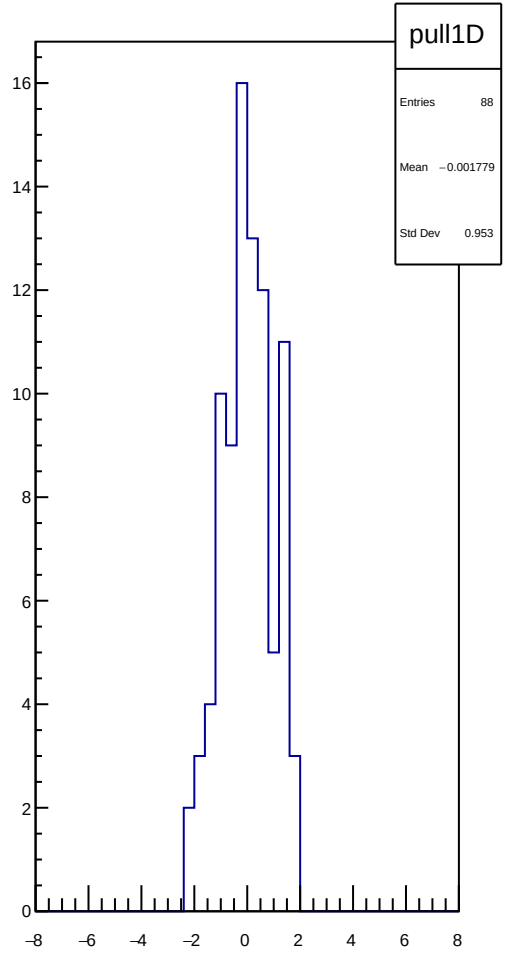

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.77 / 87
p0 0.281 ± 0.1296
pull
Entries 88
Mean −33.76
Std Dev 0
pull1D
Entries 88
Mean 0.02844
Std Dev 0.9576

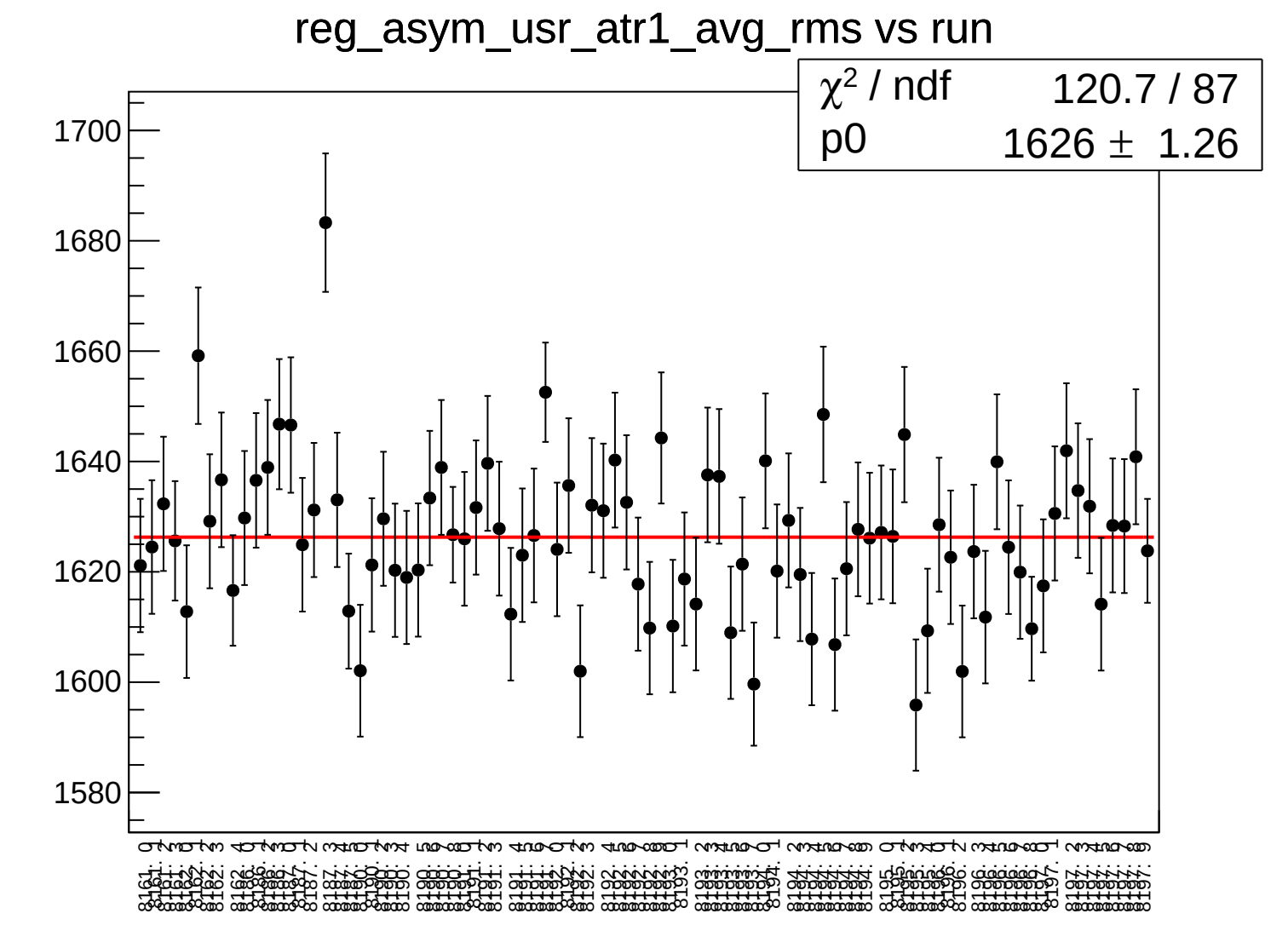

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.204e+04 / 87
p0 116.5 ± 0.09167
240
220
200
180
160
140
120
100
80

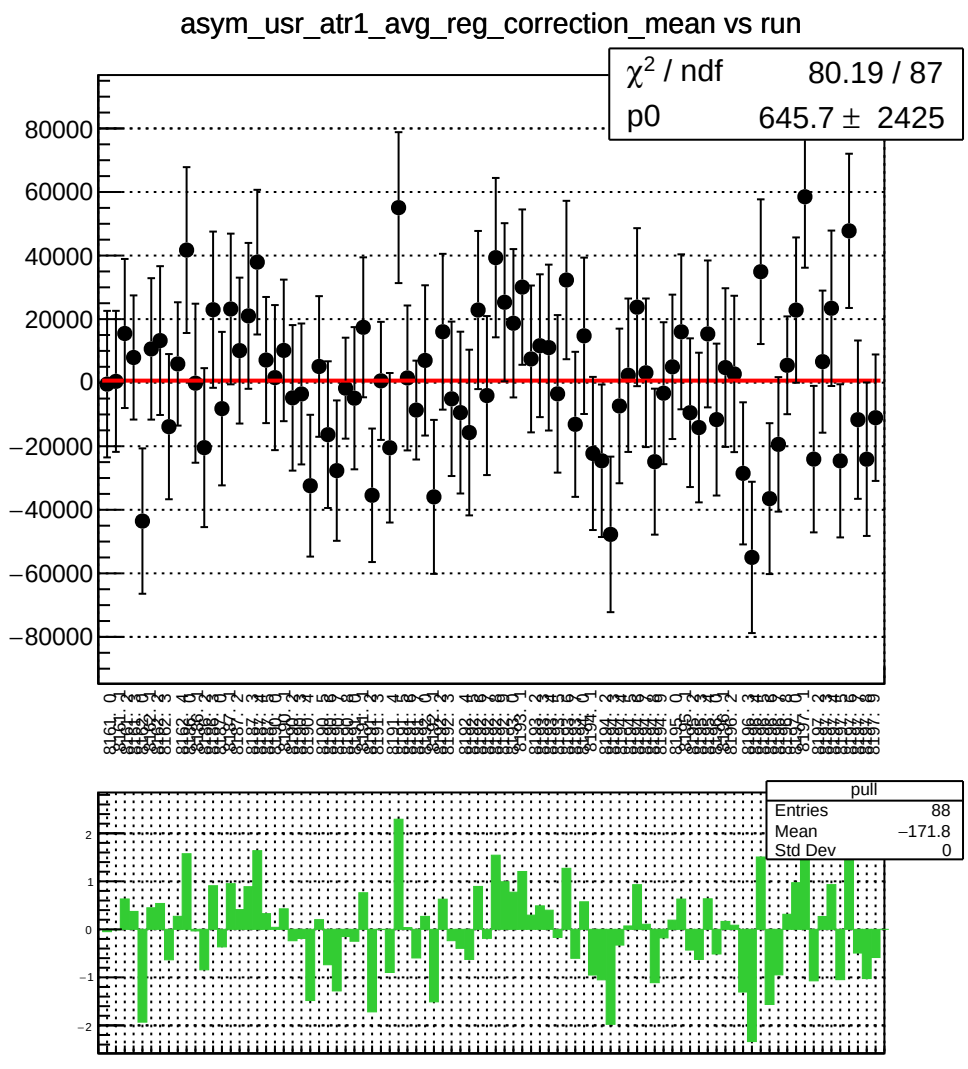

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.19 / 87
p0 8.91e−13 ± 3.729e−13
pull
Entries 88
Mean 300.1
Std Dev 0
pull1D
Entries 88
Mean −0.0224
Std Dev 0.9179

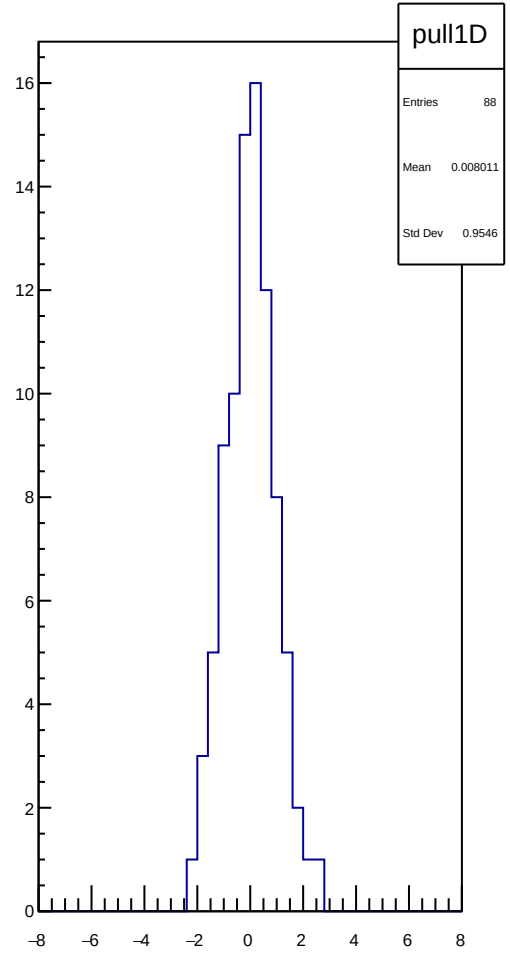

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.832e+05 / 87
p0 2.745e−10 ± 2.637e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

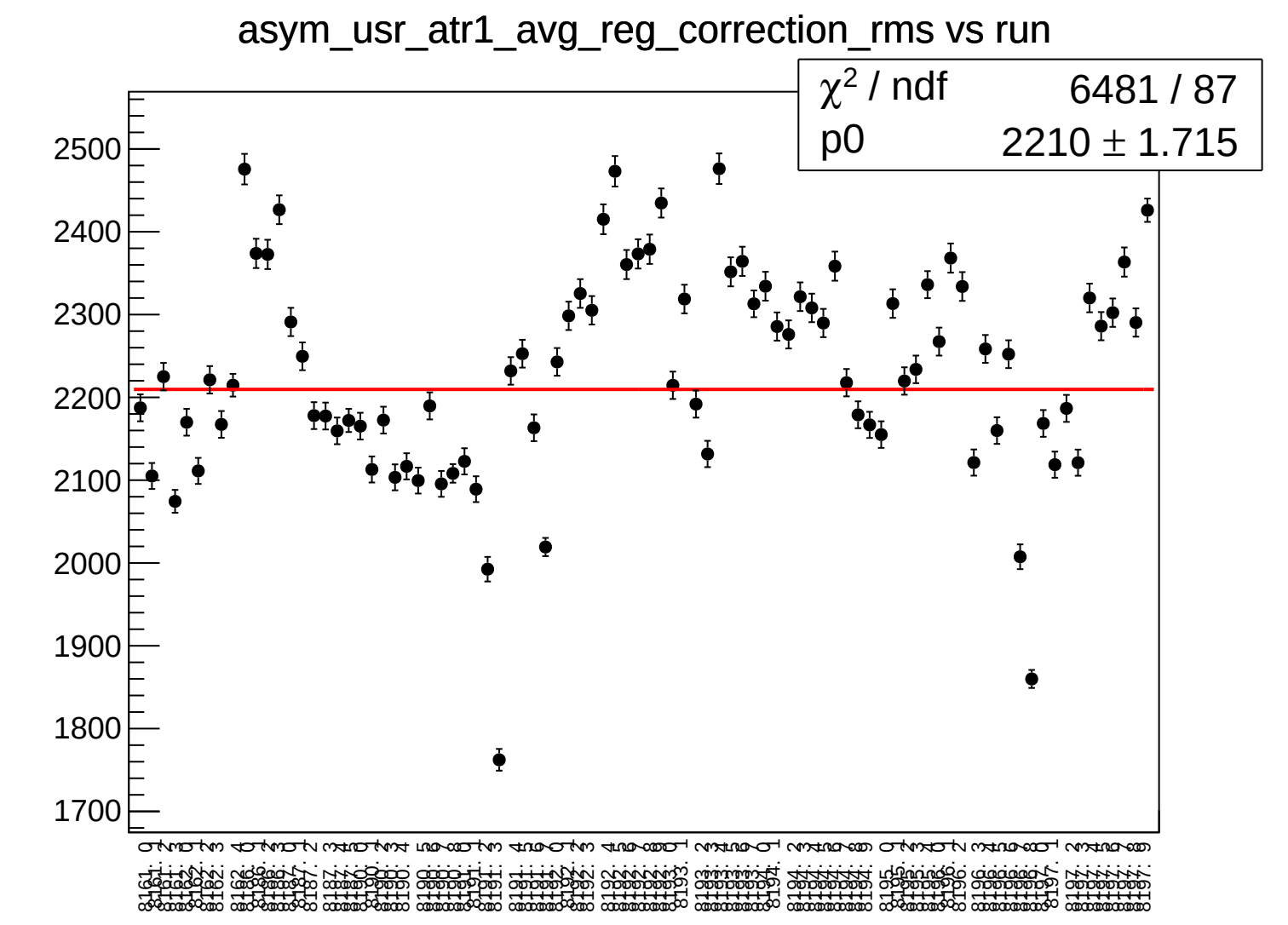

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.93 / 87
p0 −5.552 ± 1781
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 990.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

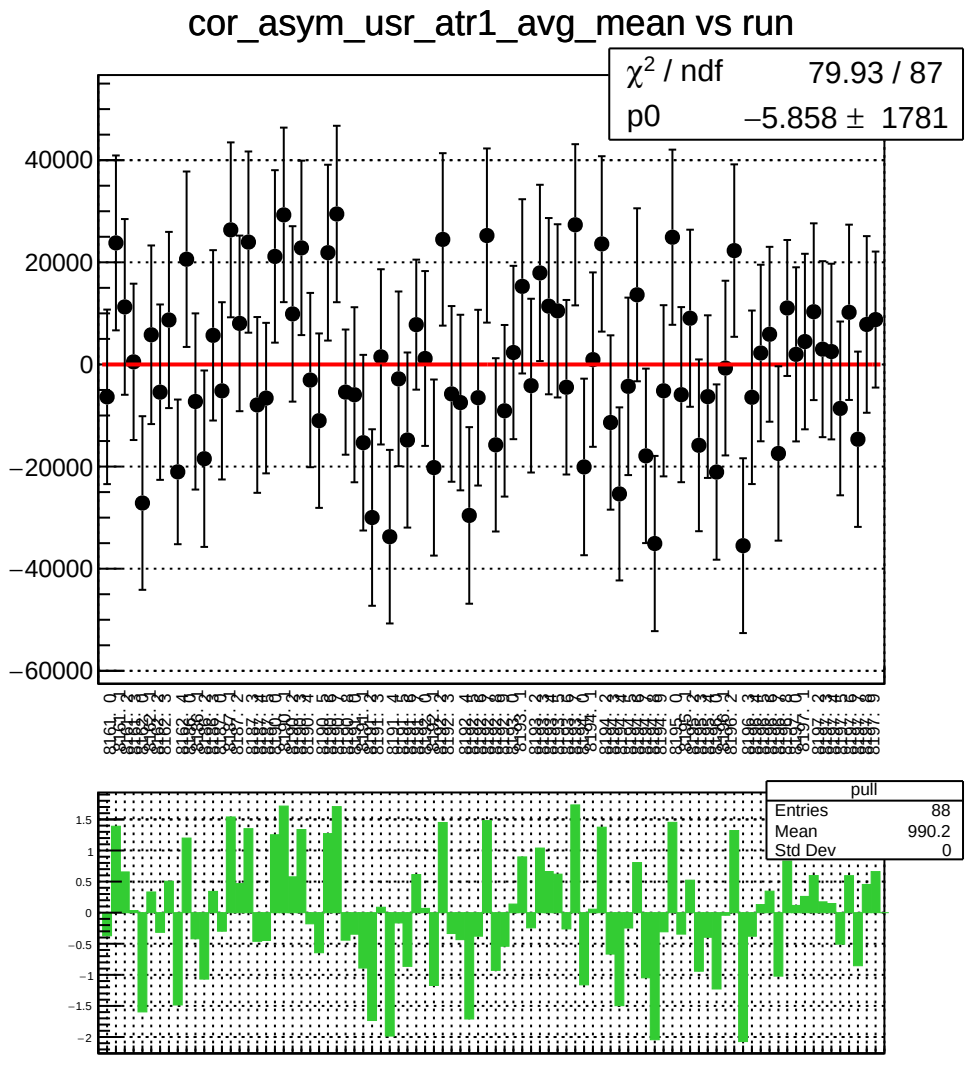

pull1D
Entries 88
Mean −0.001779
Std Dev 0.953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

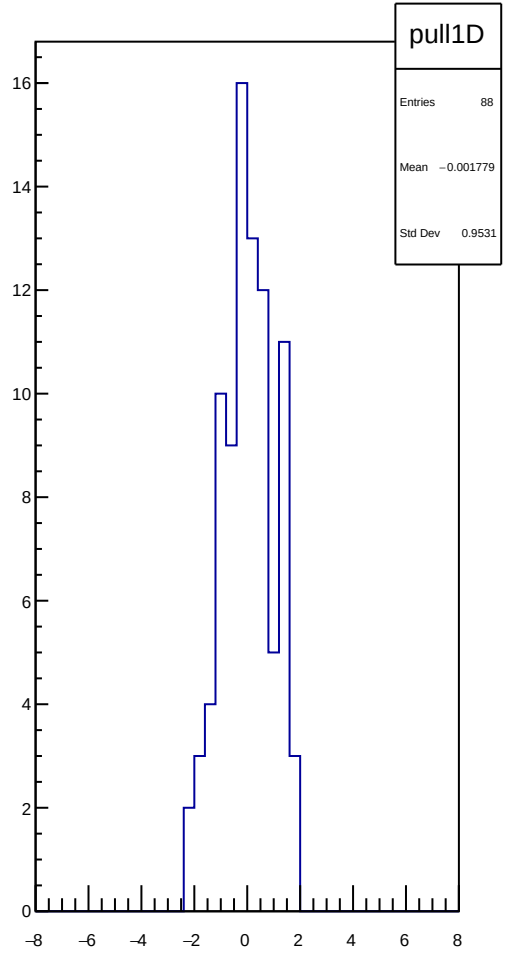

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 120.7 / 87
p0 1626 ± 1.26
1700
1680
1660
1640
1620
1600
1580

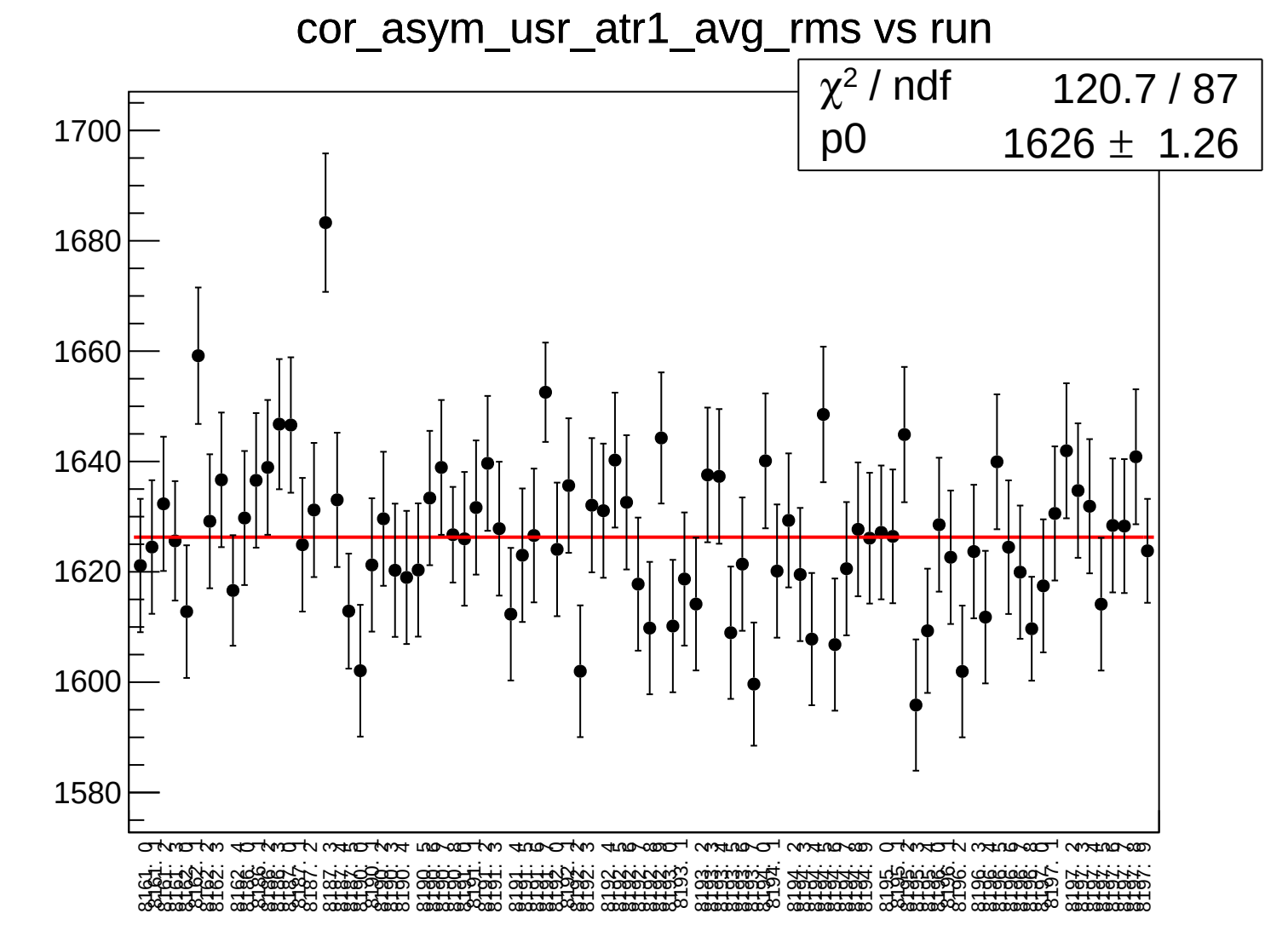

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 80.19 / 87
p0 645.7 ± 2425
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −171.8
Std Dev 0
2
1
0
−1
−2

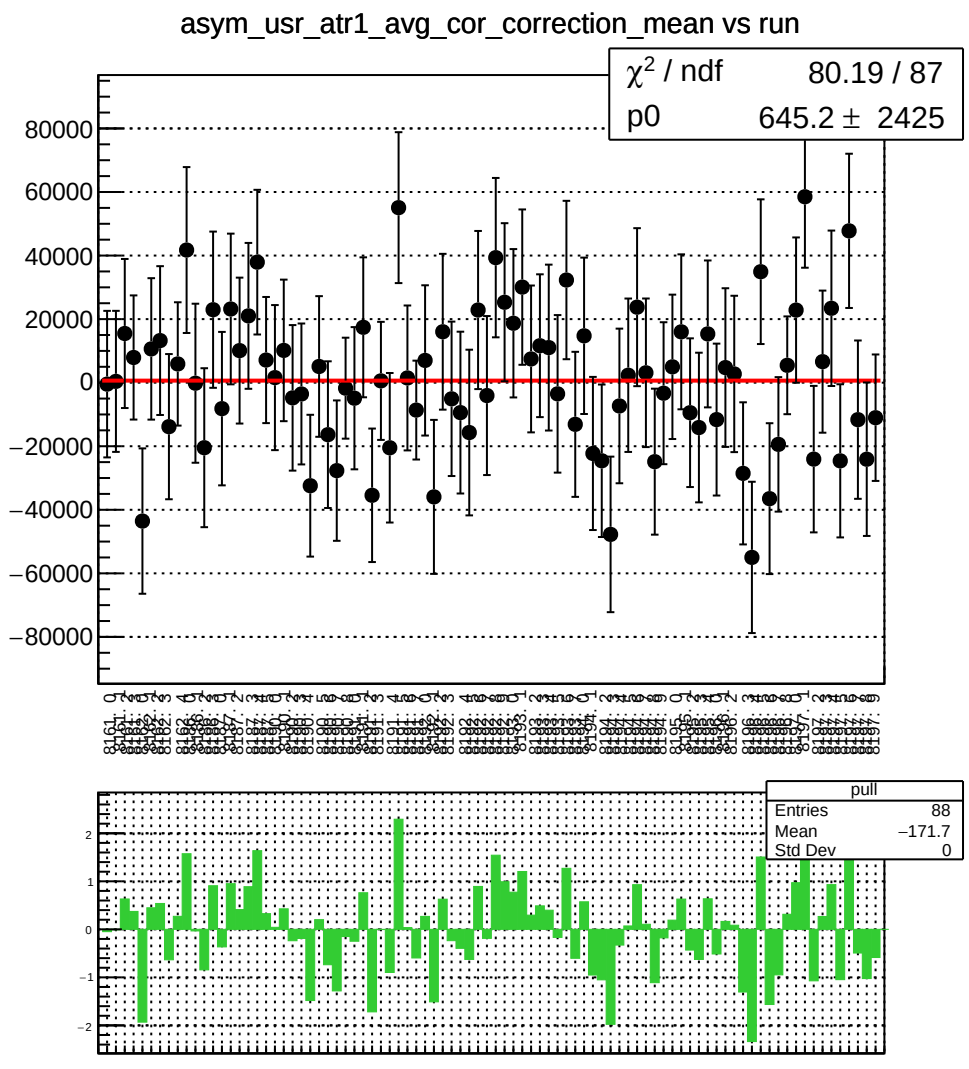

pull1D
Entries 88
Mean 0.008011
Std Dev 0.9546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

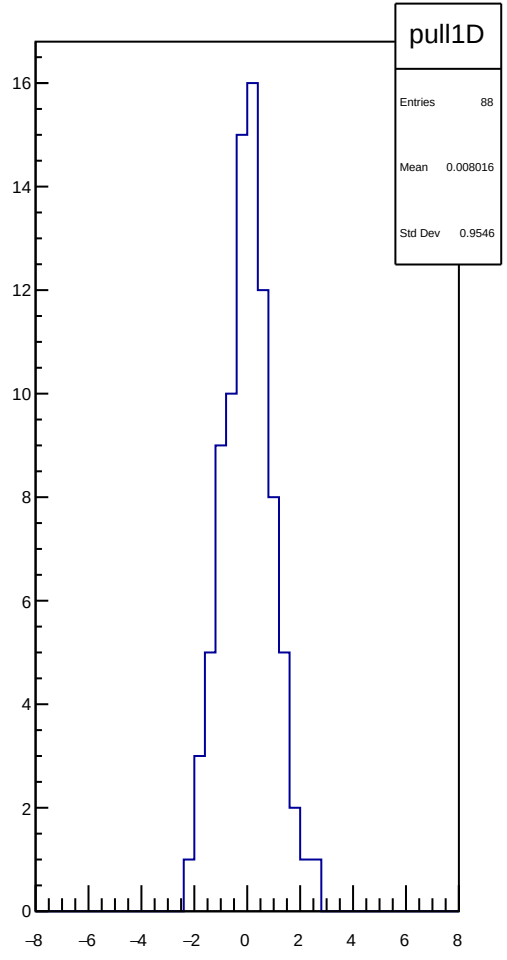

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 6481 / 87
p0 2210 ± 1.715
2500
2400
2300
2200
2100
2000
1900
1800
1700

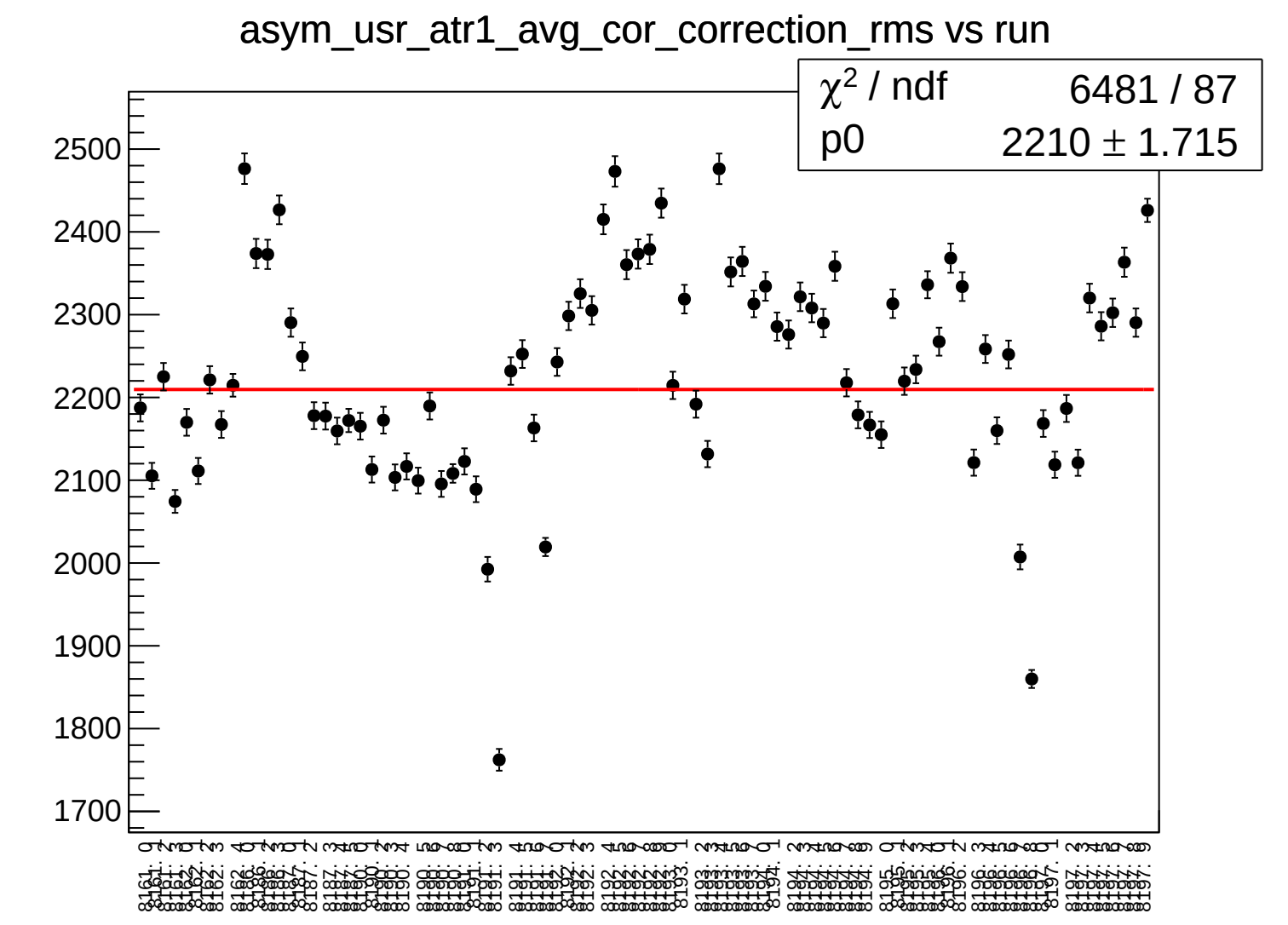

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.93 / 87
p0 −5.858 ± 1781
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 990.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

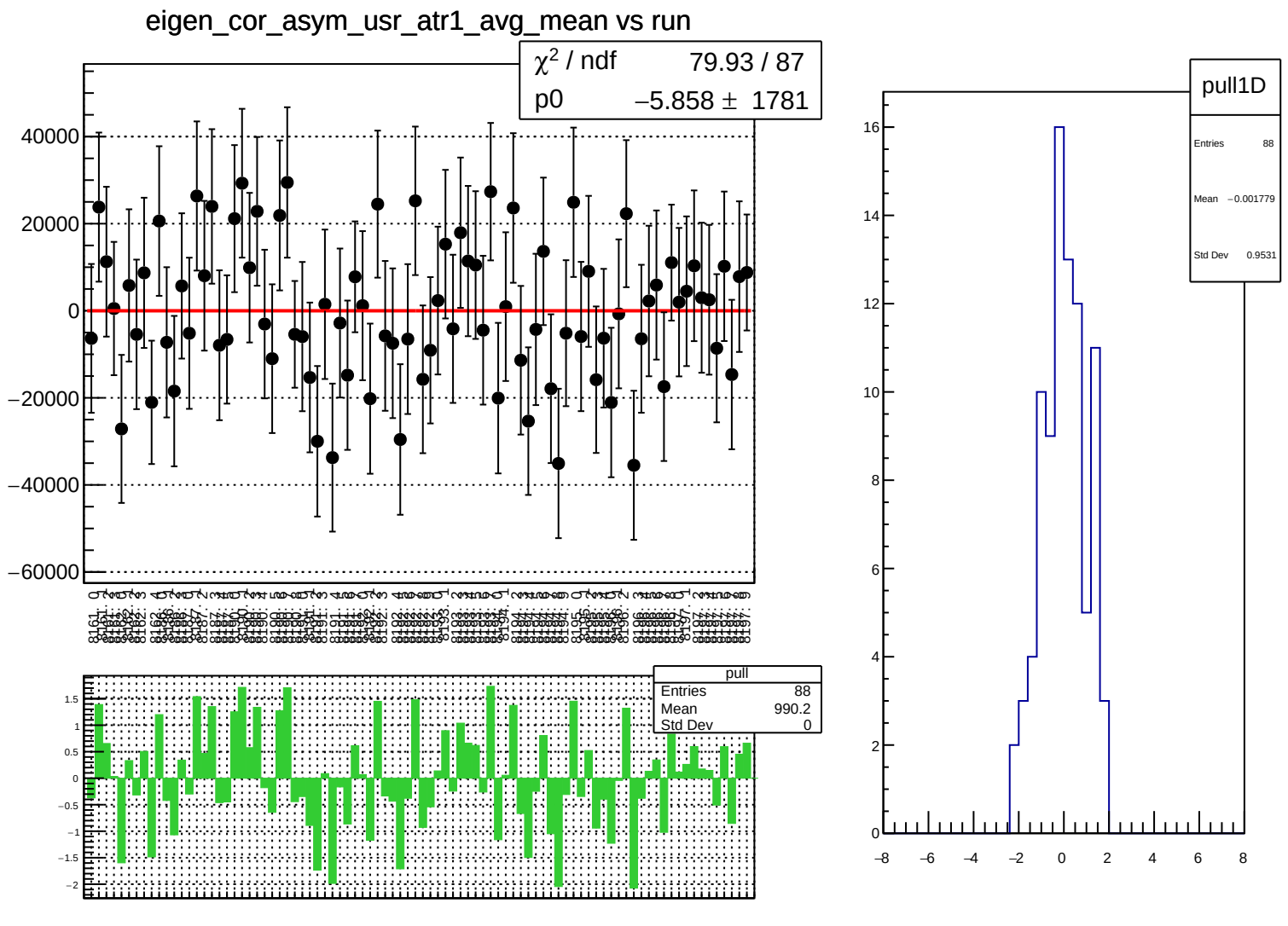

pull1D
Entries 88
Mean −0.001779
Std Dev 0.9531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

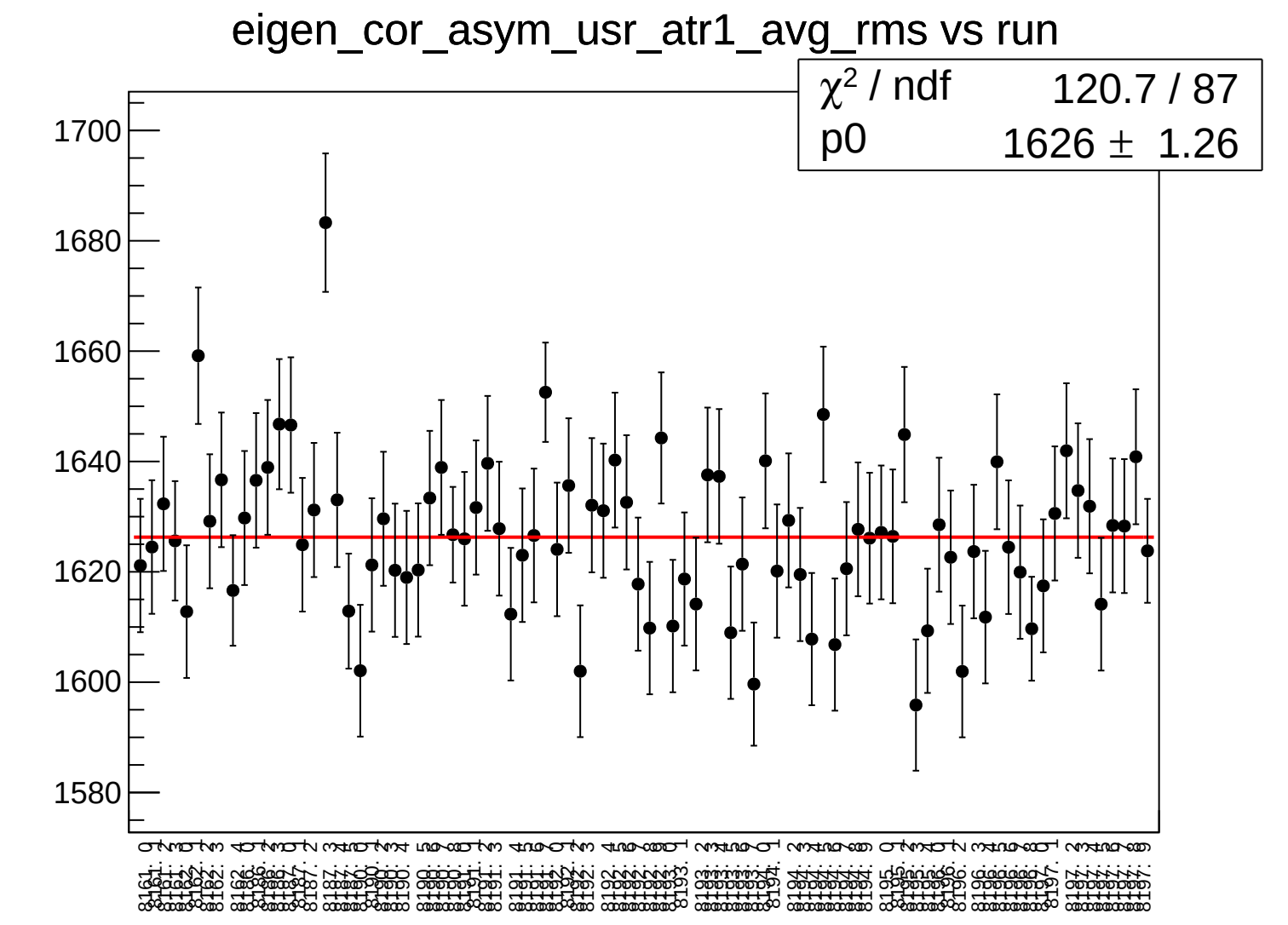

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 120.7 / 87
p0 1626 ± 1.26
1700
1680
1660
1640
1620
1600
1580

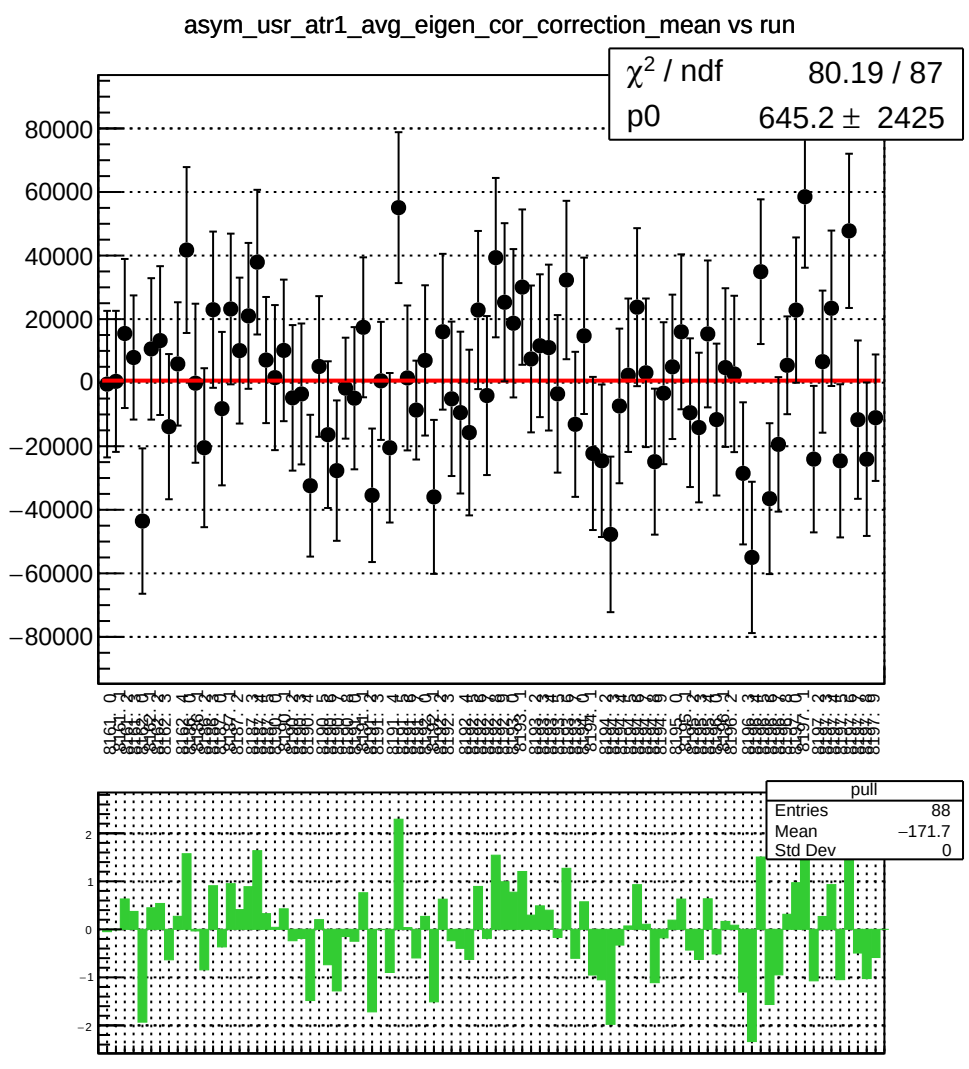

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 80.19 / 87
p0 645.2 ± 2425
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −171.7
Std Dev 0
2
1
0
−1
−2

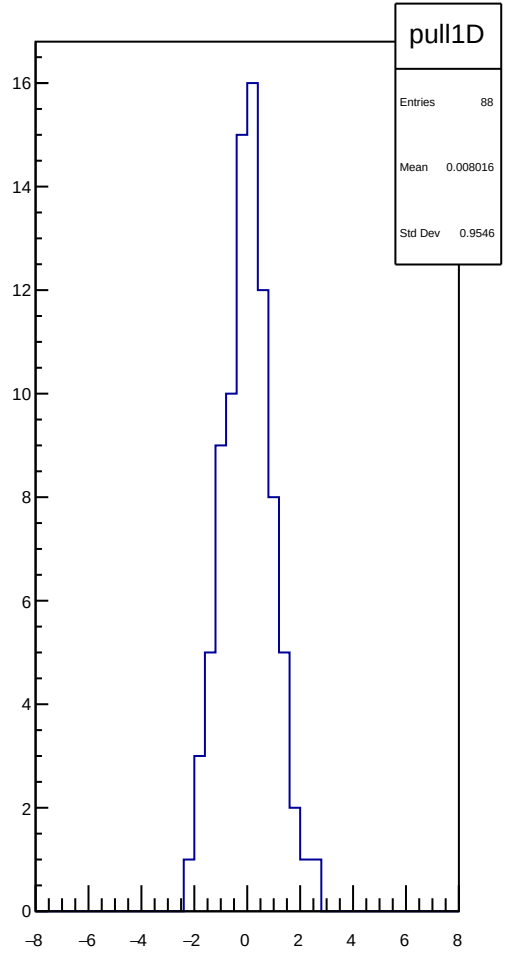

pull1D
Entries 88
Mean 0.008016
Std Dev 0.9546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

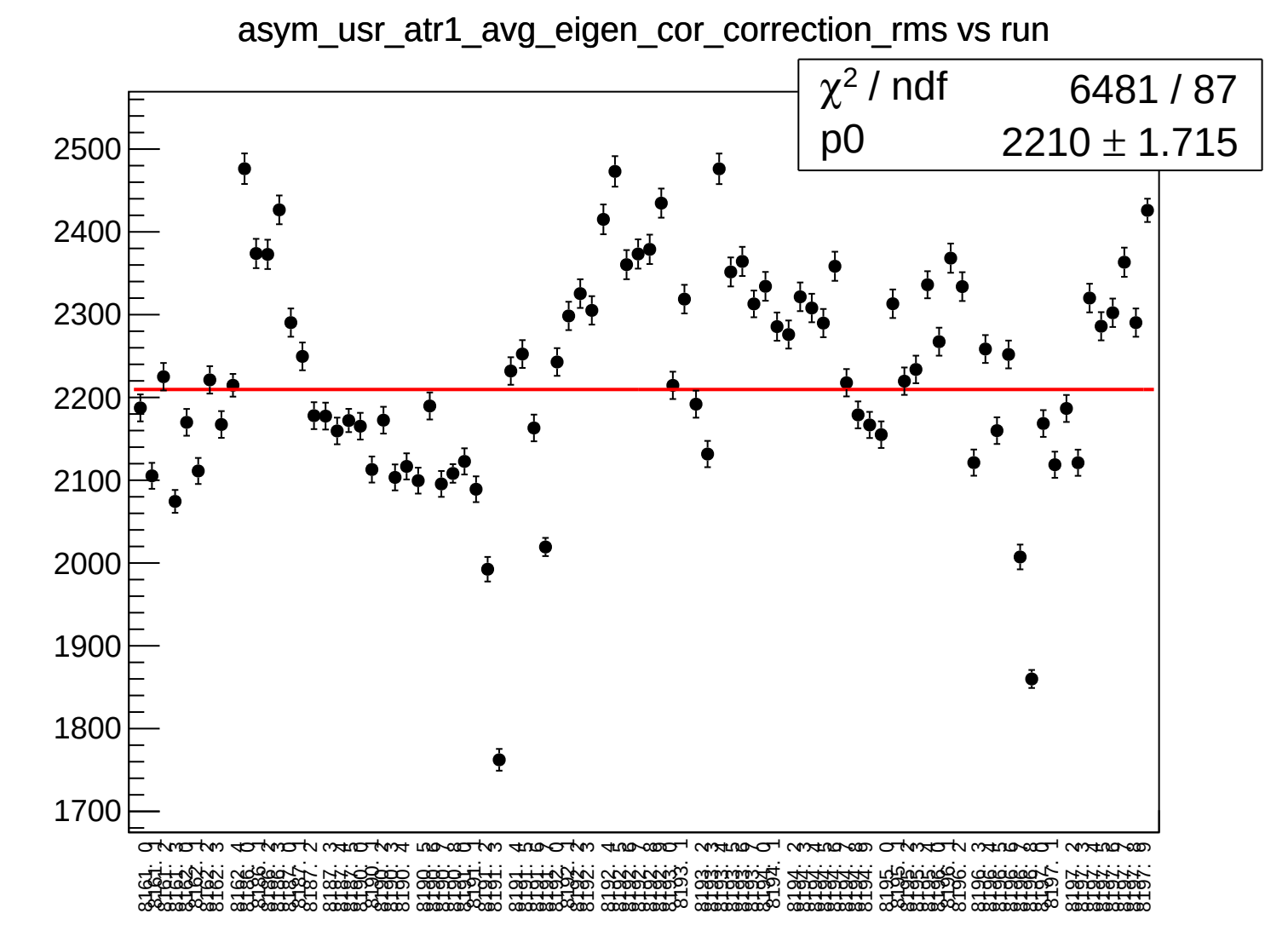

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 6481 / 87
p0 2210 ± 1.715
2500
2400
2300
2200
2100
2000
1900
1800
1700

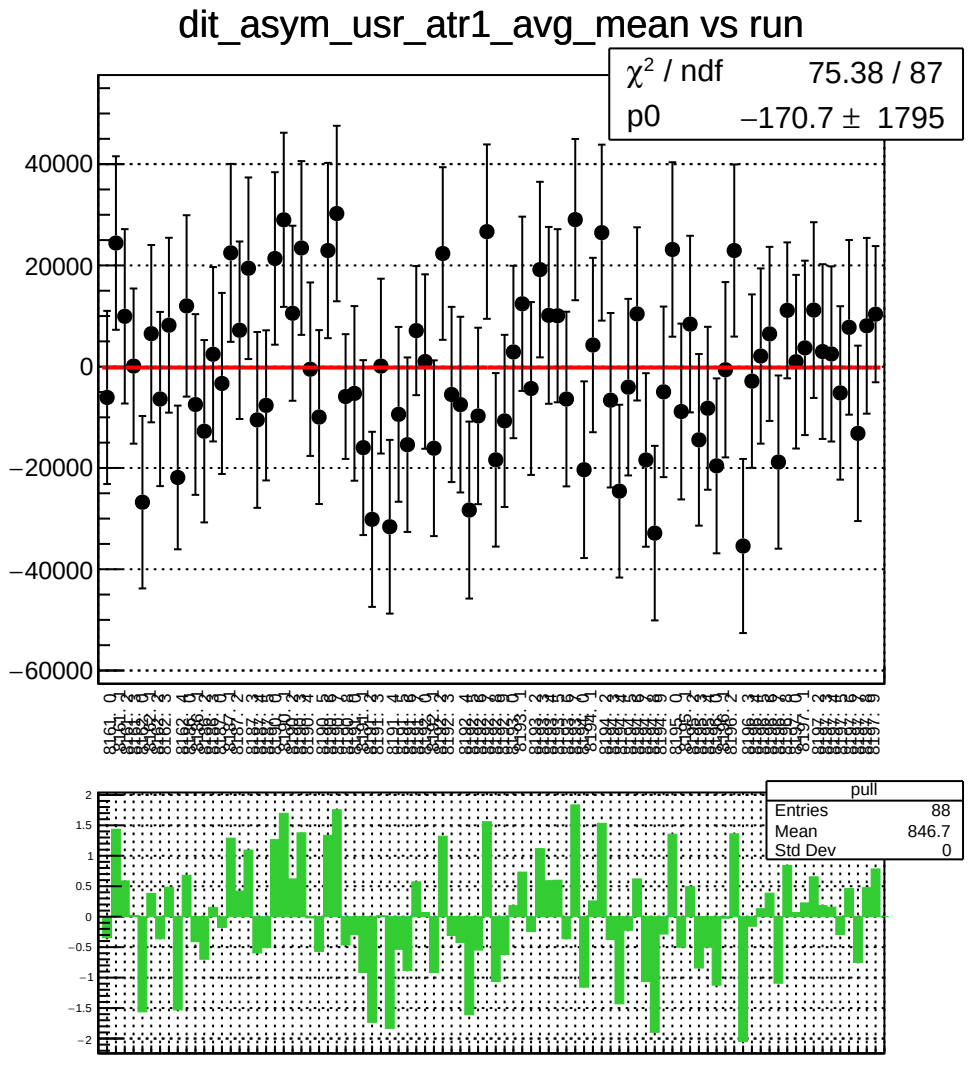

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.93 / 87
p0 −5.858 ± 1781
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 990.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.001779
Std Dev 0.9531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

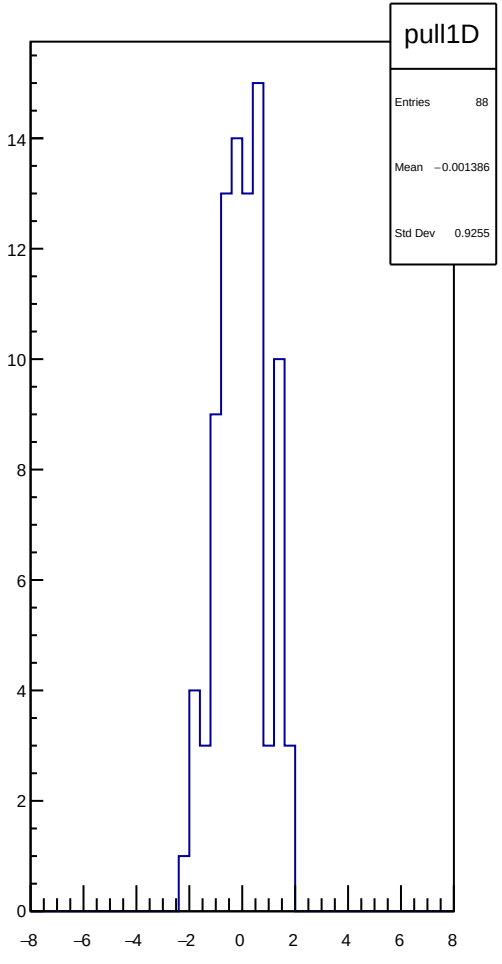

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 120.7 / 87
p0 1626 ± 1.26
1700
1680
1660
1640
1620
1600
1580

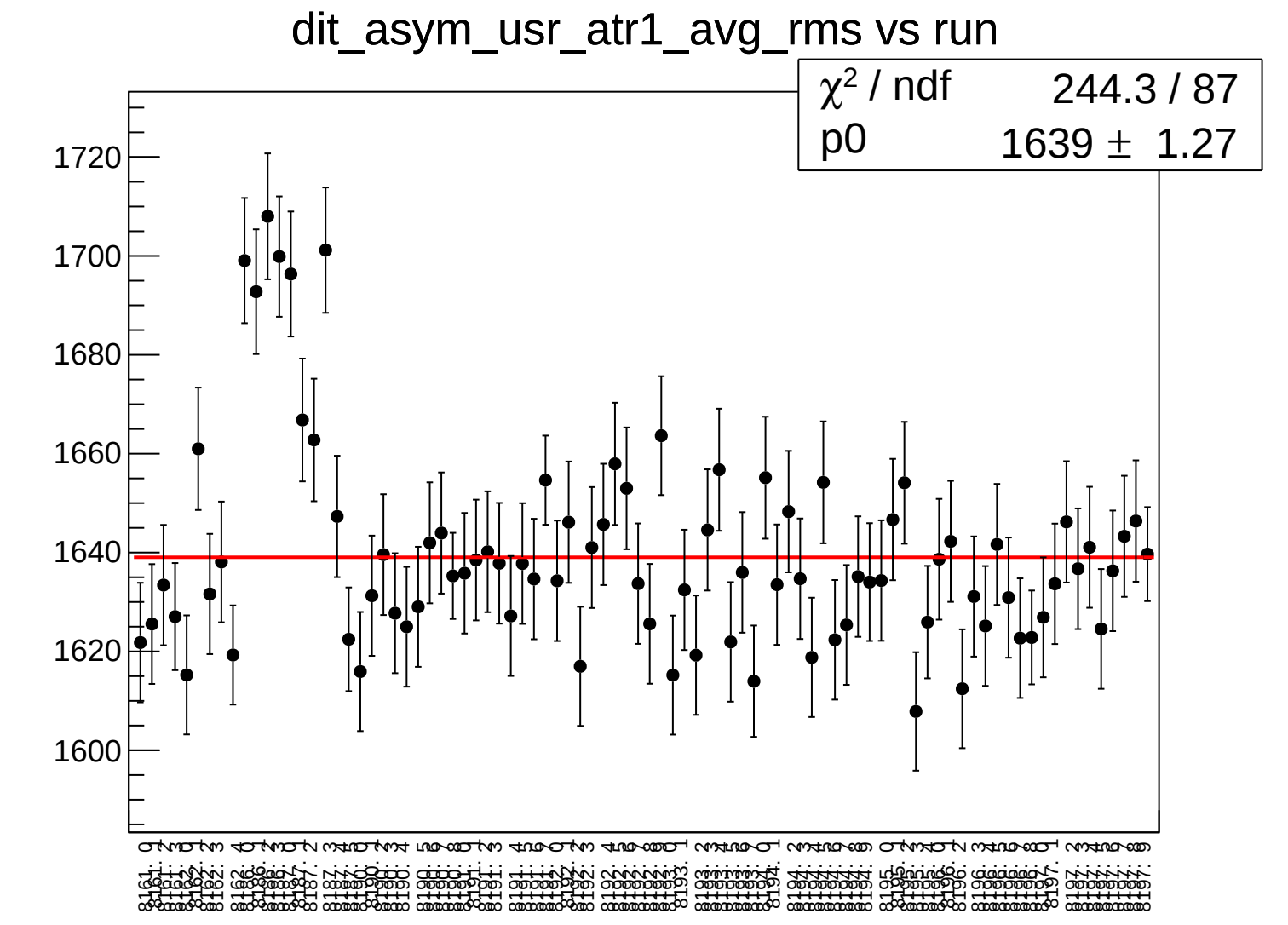

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.19 / 87
p0 645.2 ± 2425
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −171.7
Std Dev 0
2
1
0
−1
−2

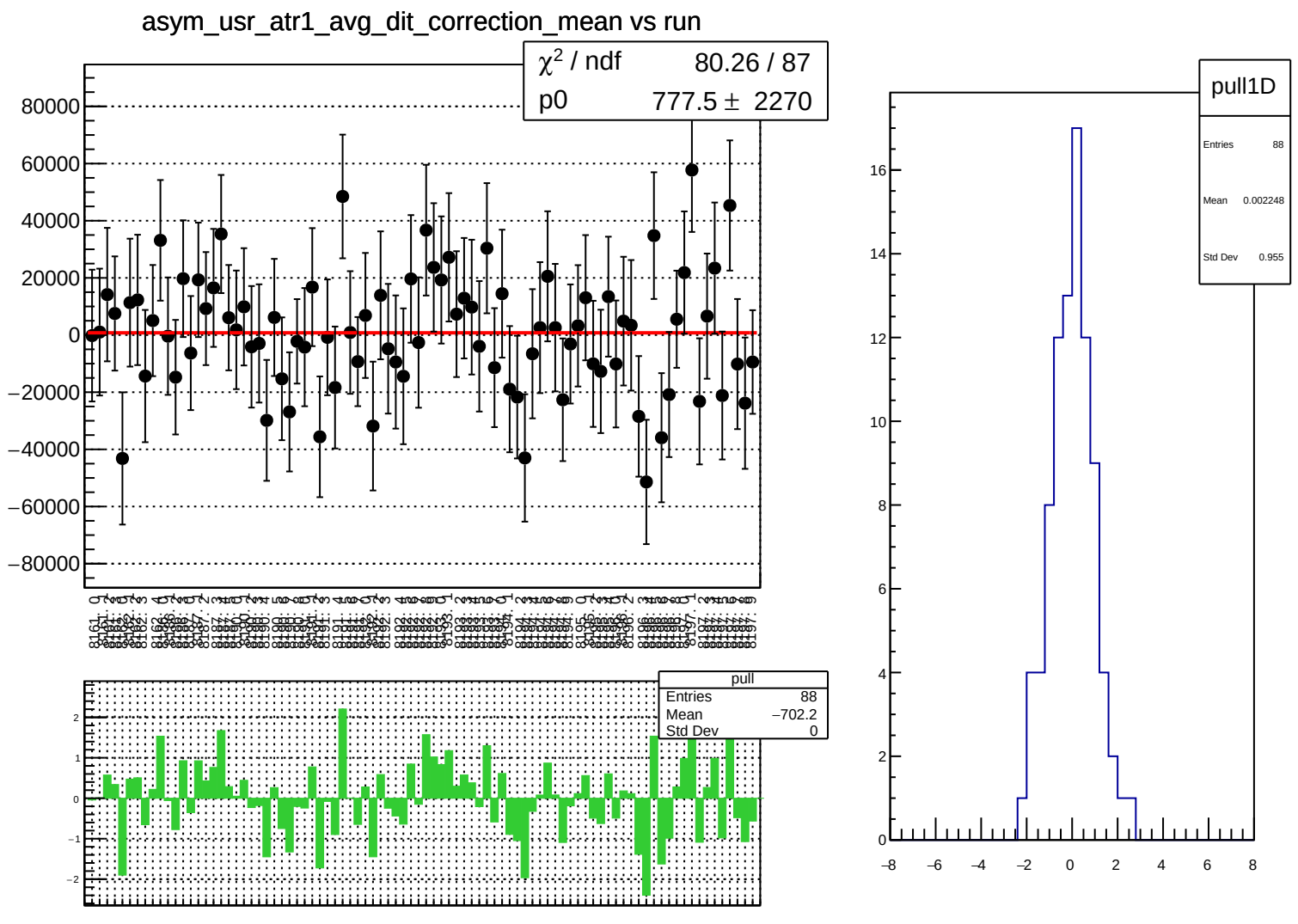

pull1D
Entries 88
Mean 0.008016
Std Dev 0.9546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

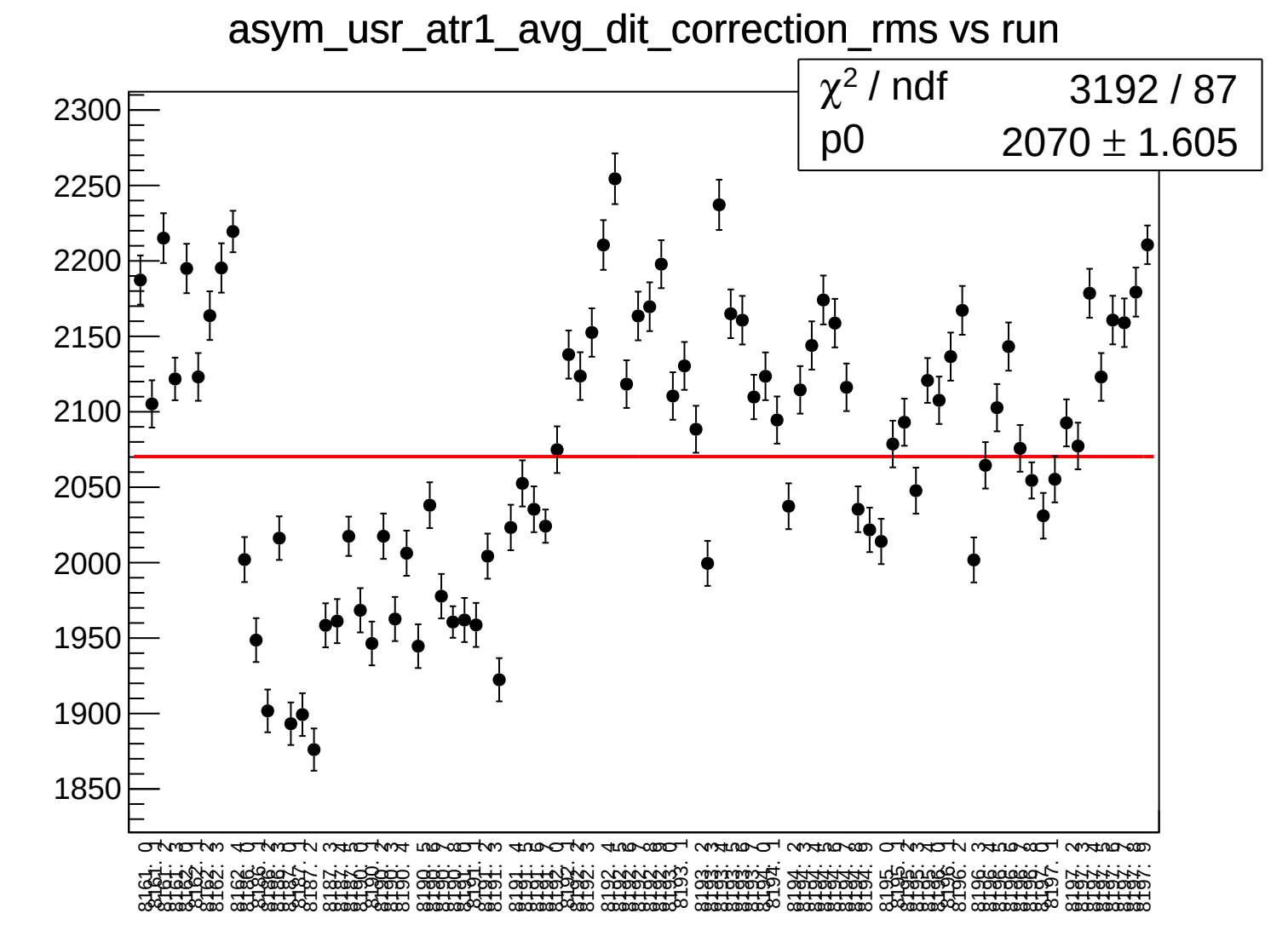

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6481 / 87
p0 2210 ± 1.715
2500
2400
2300
2200
2100
2000
1900
1800
1700

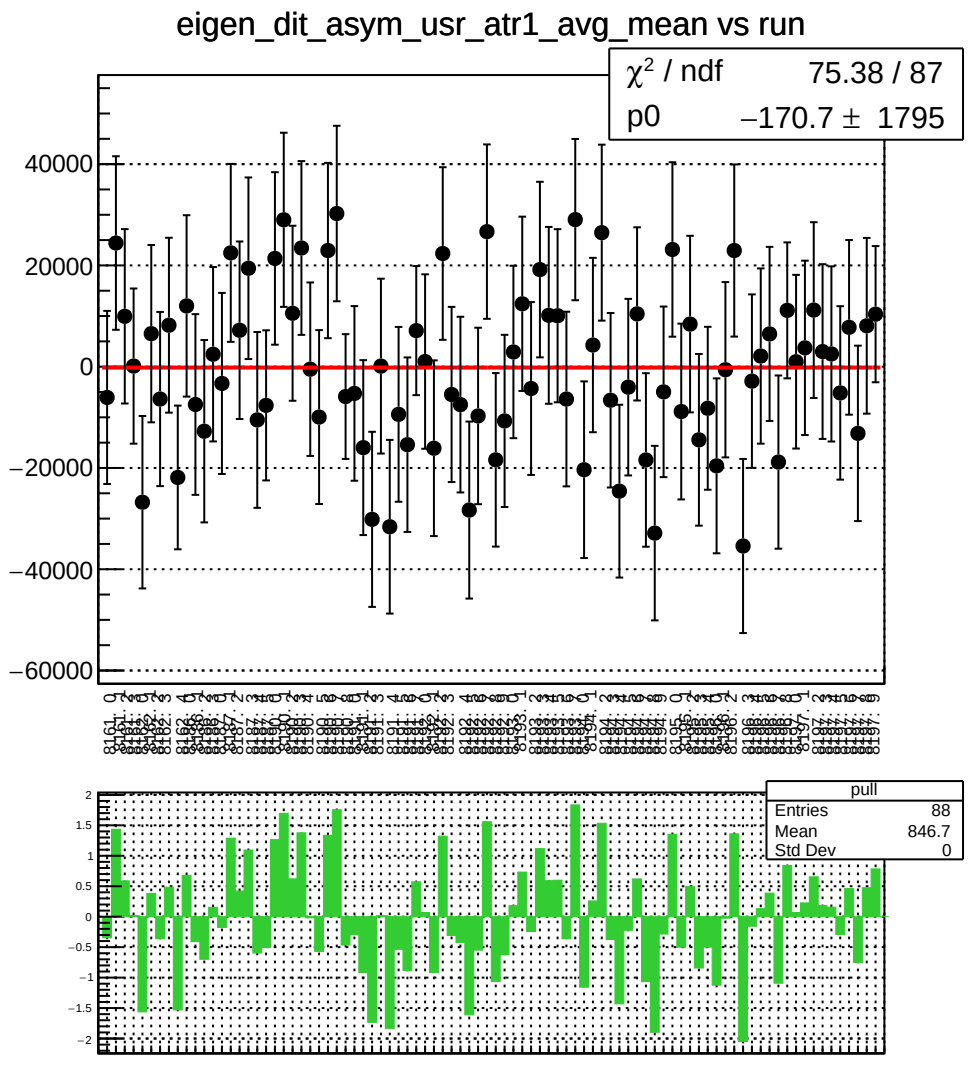

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 75.38 / 87
p0 −170.7 ± 1795
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 846.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

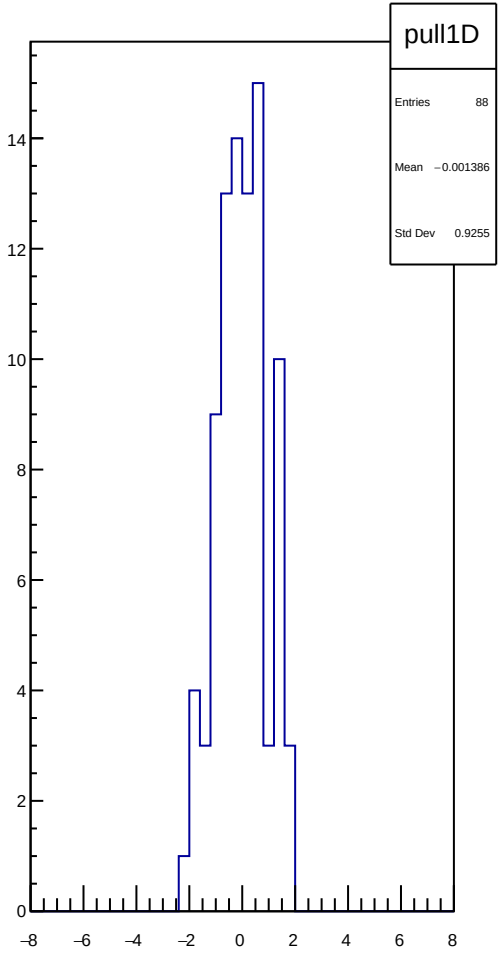

pull1D
Entries 88
Mean −0.001386
Std Dev 0.9255
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

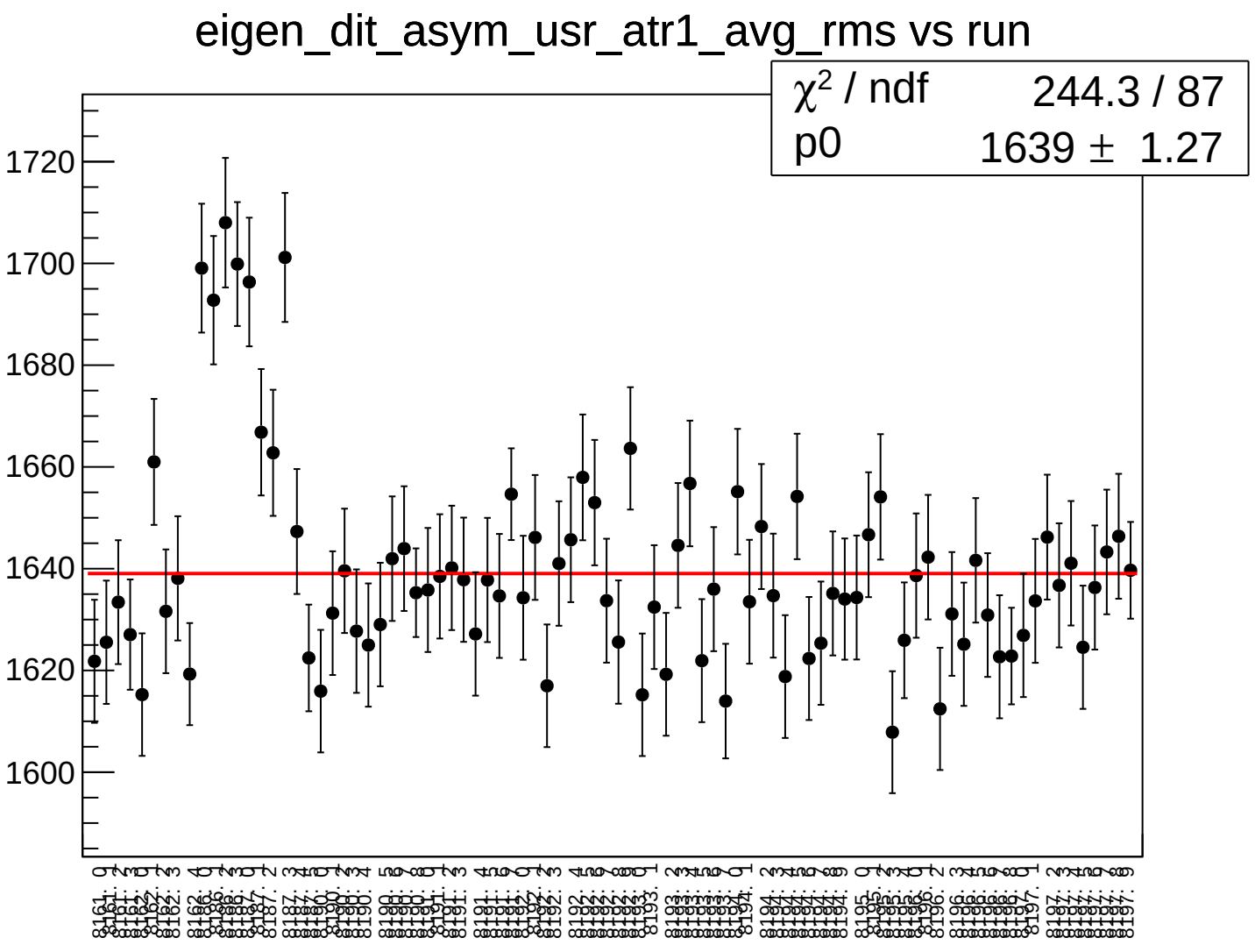

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 244.3 / 87
p0 1639 ± 1.27
1720
1700
1680
1660
1640
1620
1600

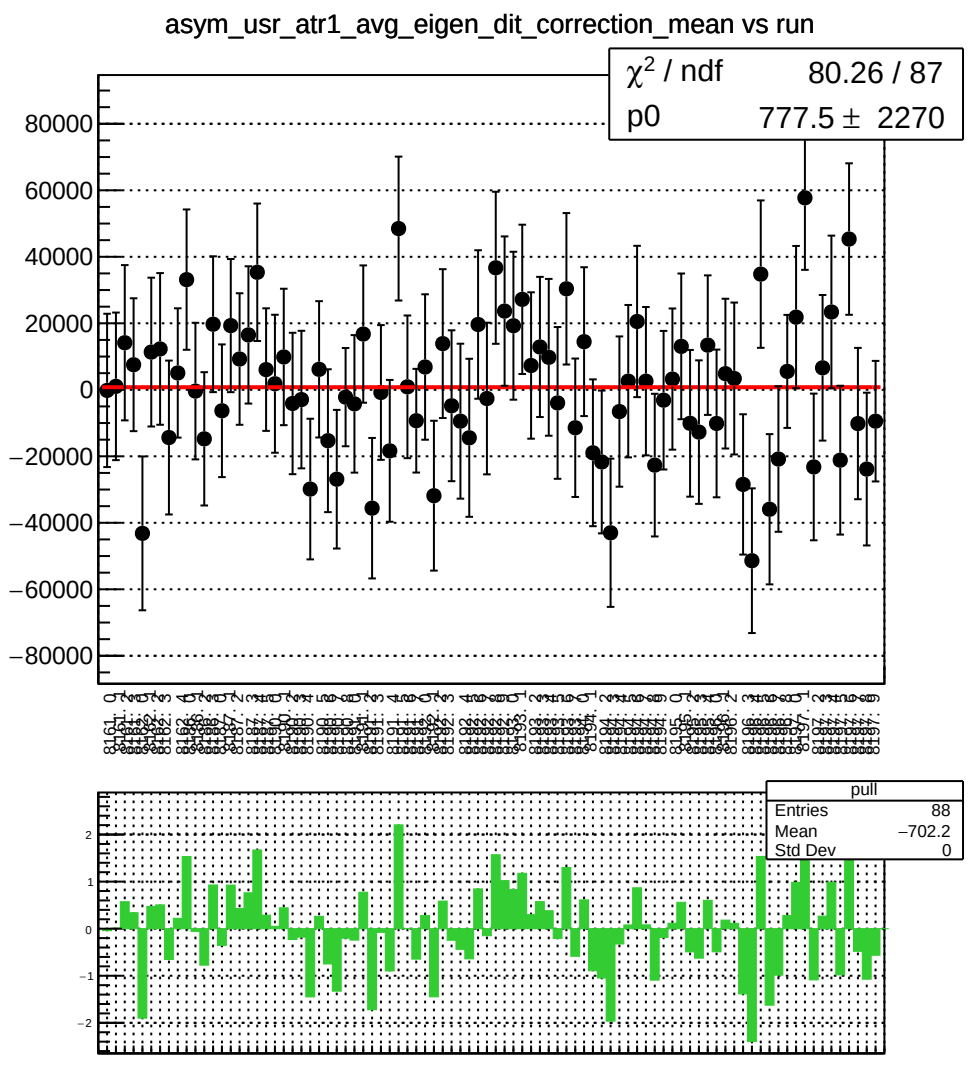

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 80.26 / 87
p0 777.5 ± 2270
pull
Entries 88
Mean −702.2
Std Dev 0
pull1D
Entries 88
Mean 0.002248
Std Dev 0.955

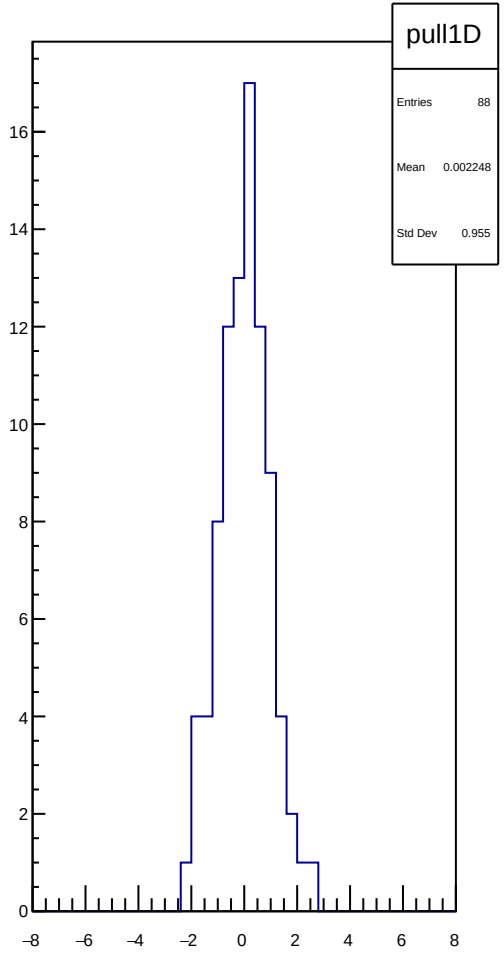

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 3192 / 87
p0 2070 ± 1.605
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850

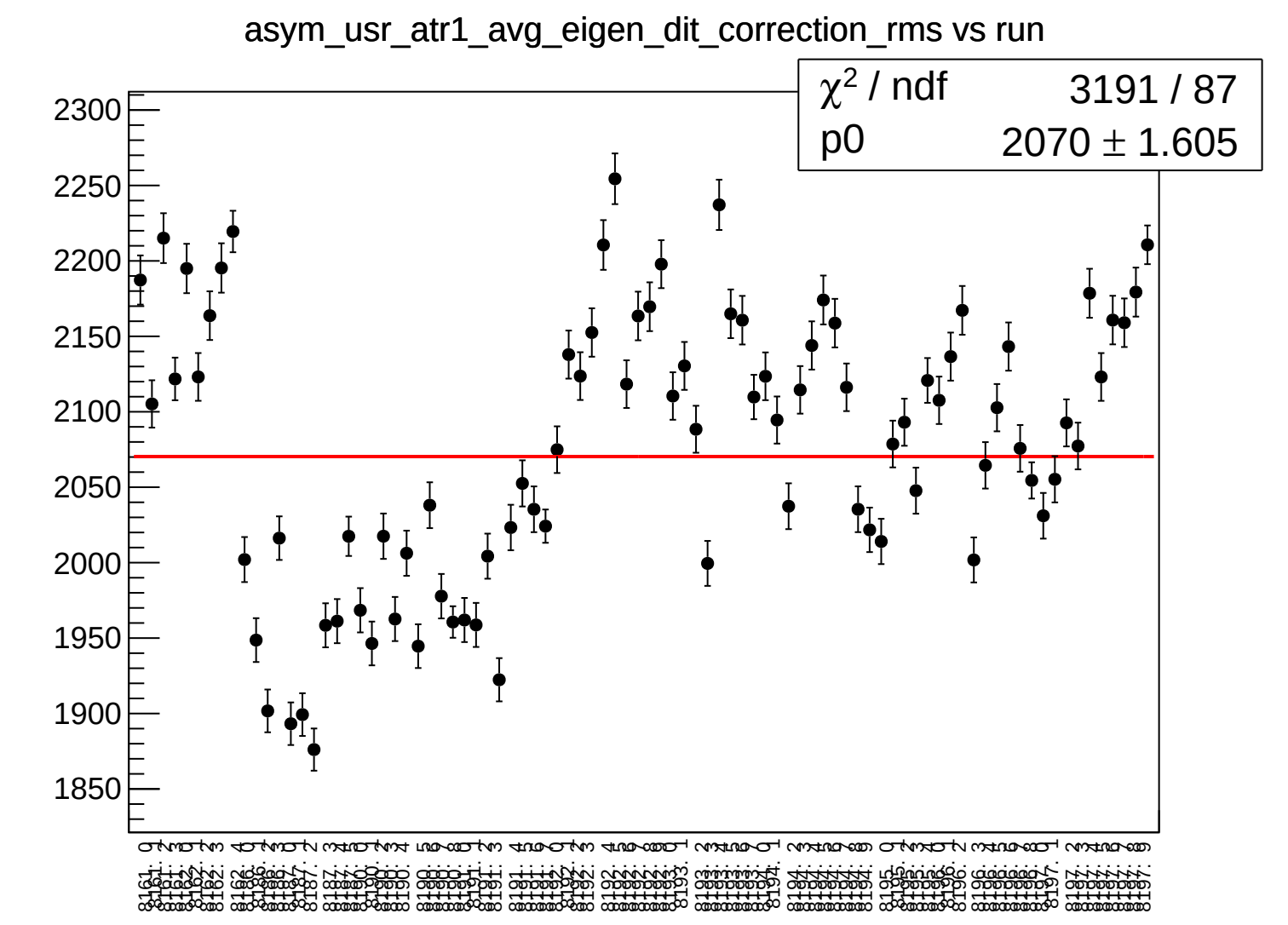

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 75.38 / 87
p0 −170.7 ± 1795
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 846.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

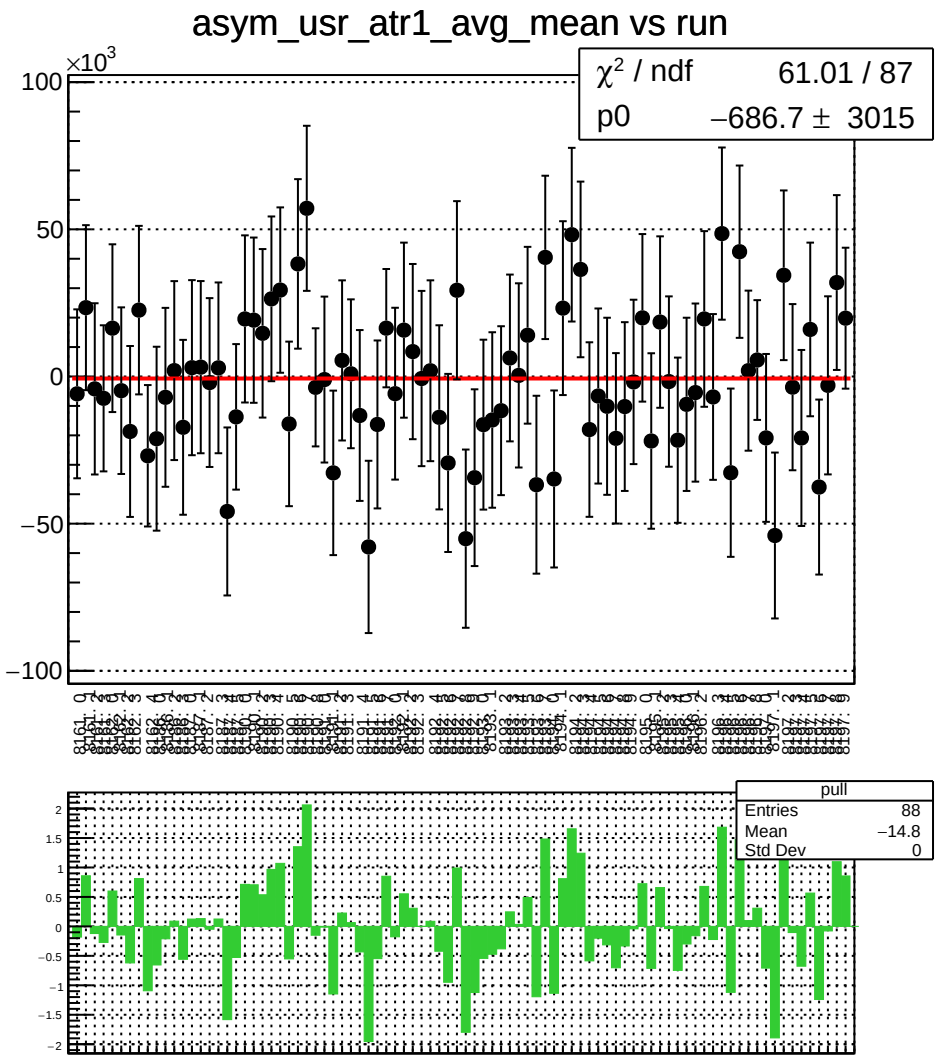

pull1D
Entries 88
Mean −0.001386
Std Dev 0.9255
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

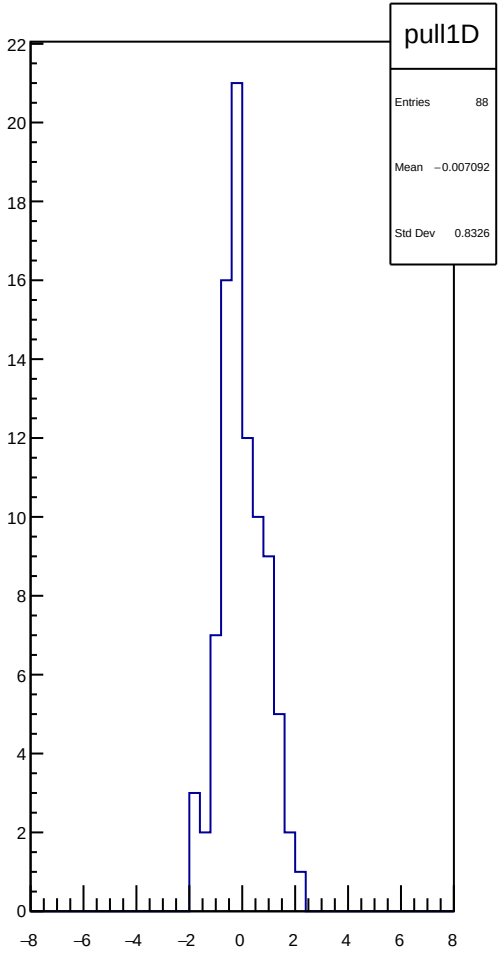

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 244.3 / 87
p0 1639 ± 1.27
1720
1700
1680
1660
1640
1620
1600

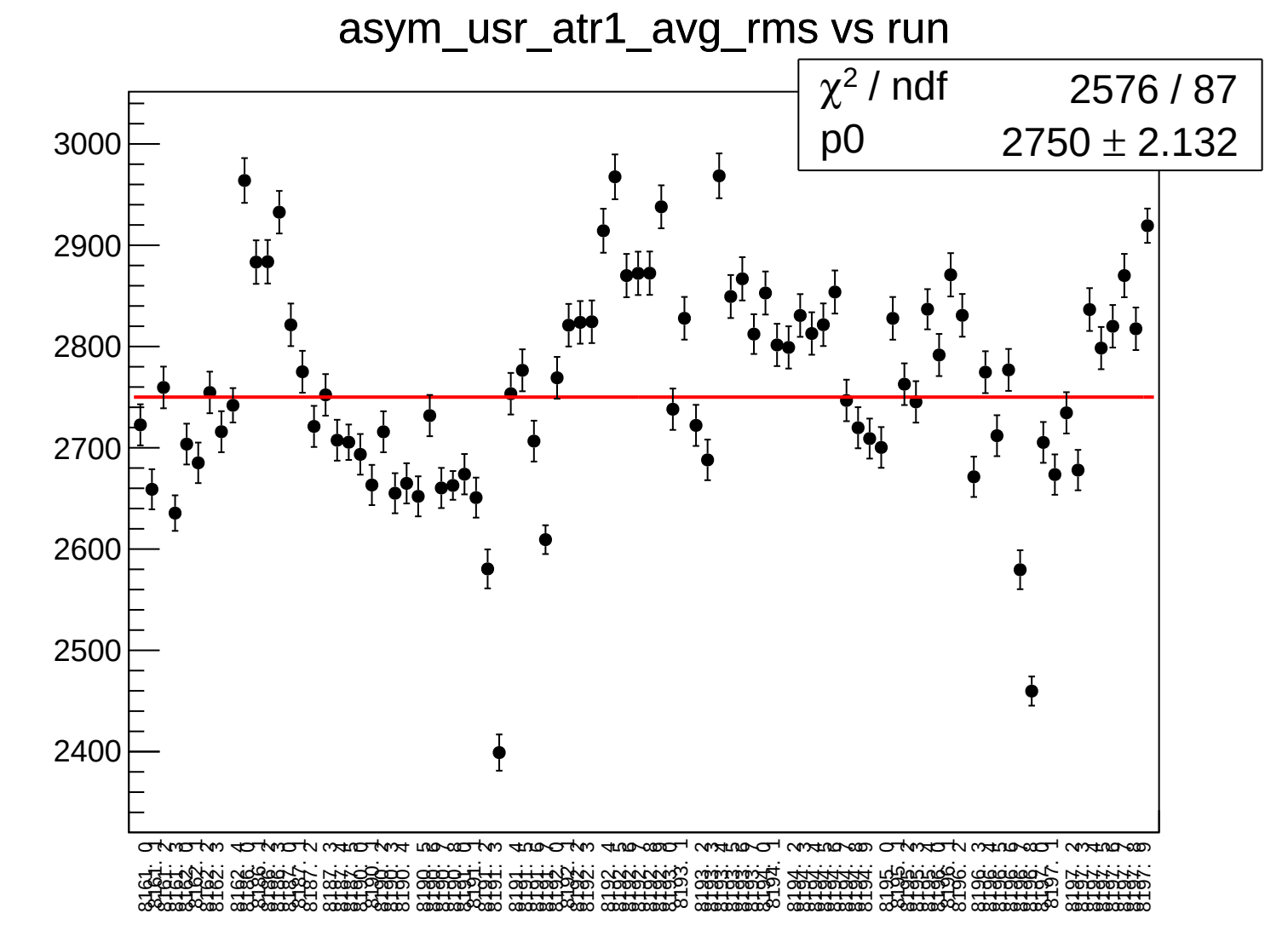

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.26 / 87
p0 777.5 ± 2270
pull
Entries 88
Mean −702.2
Std Dev 0

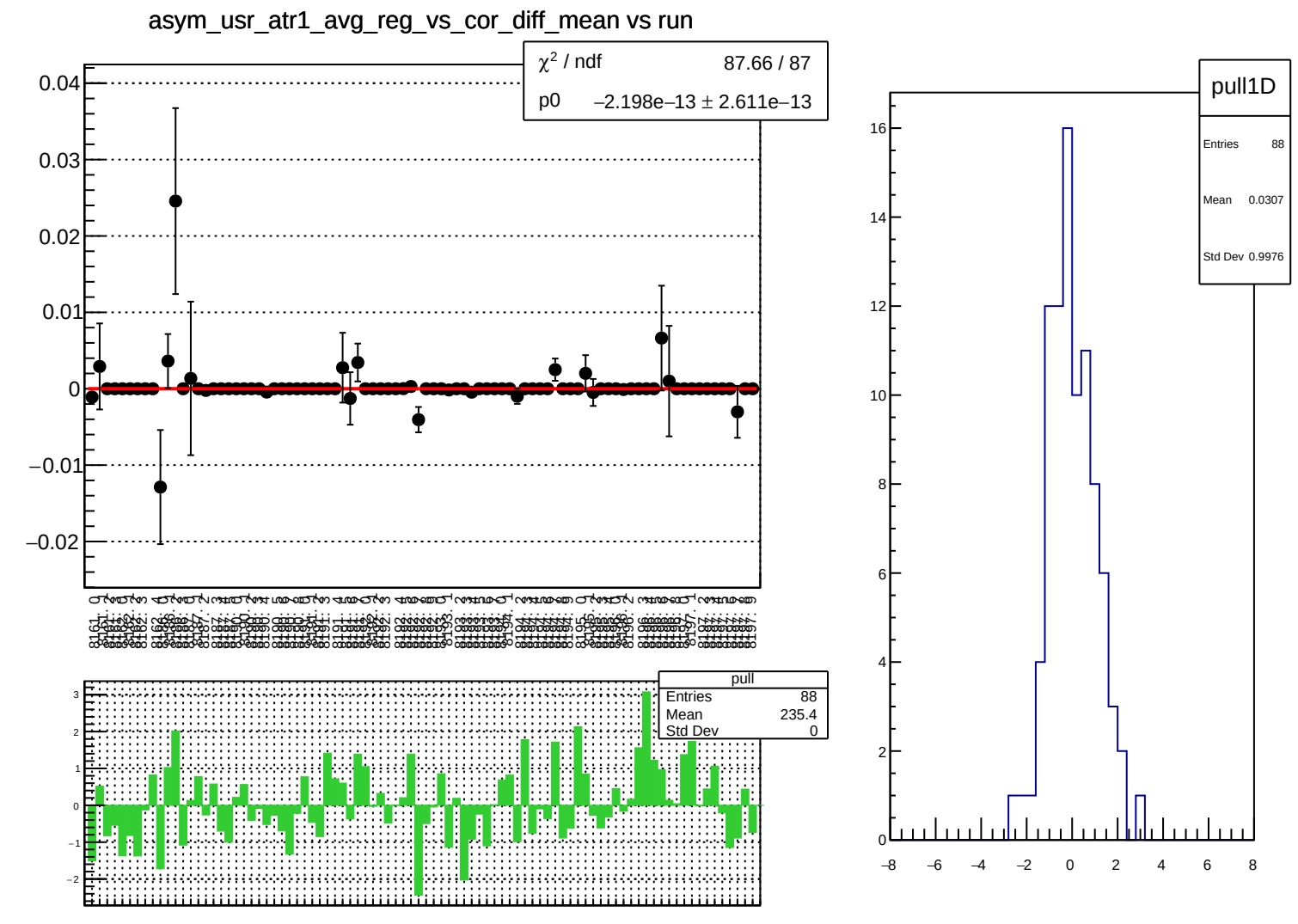

pull1D
Entries 88
Mean 0.002248
Std Dev 0.955

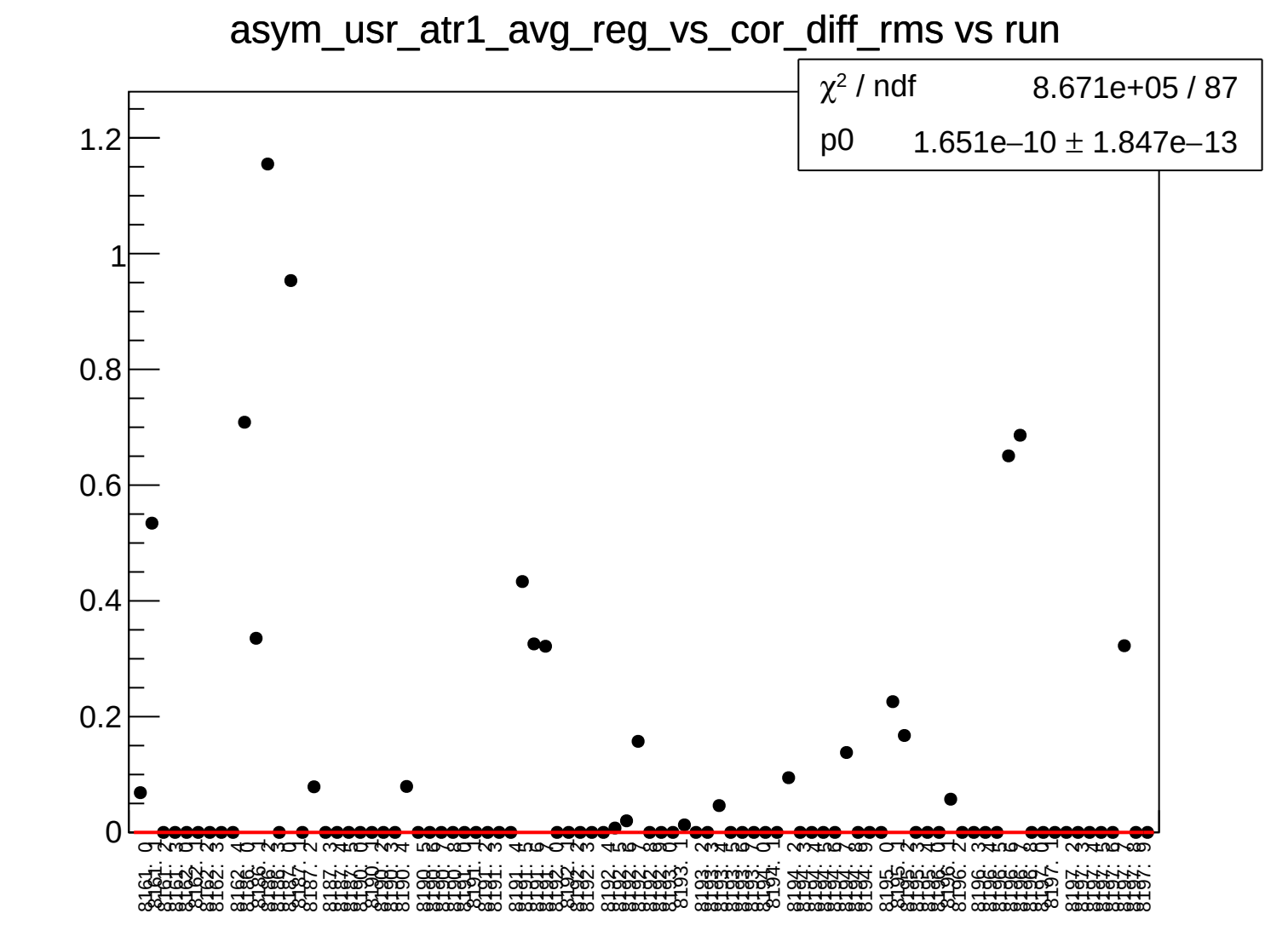

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3191 / 87
p0 2070 ± 1.605
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850

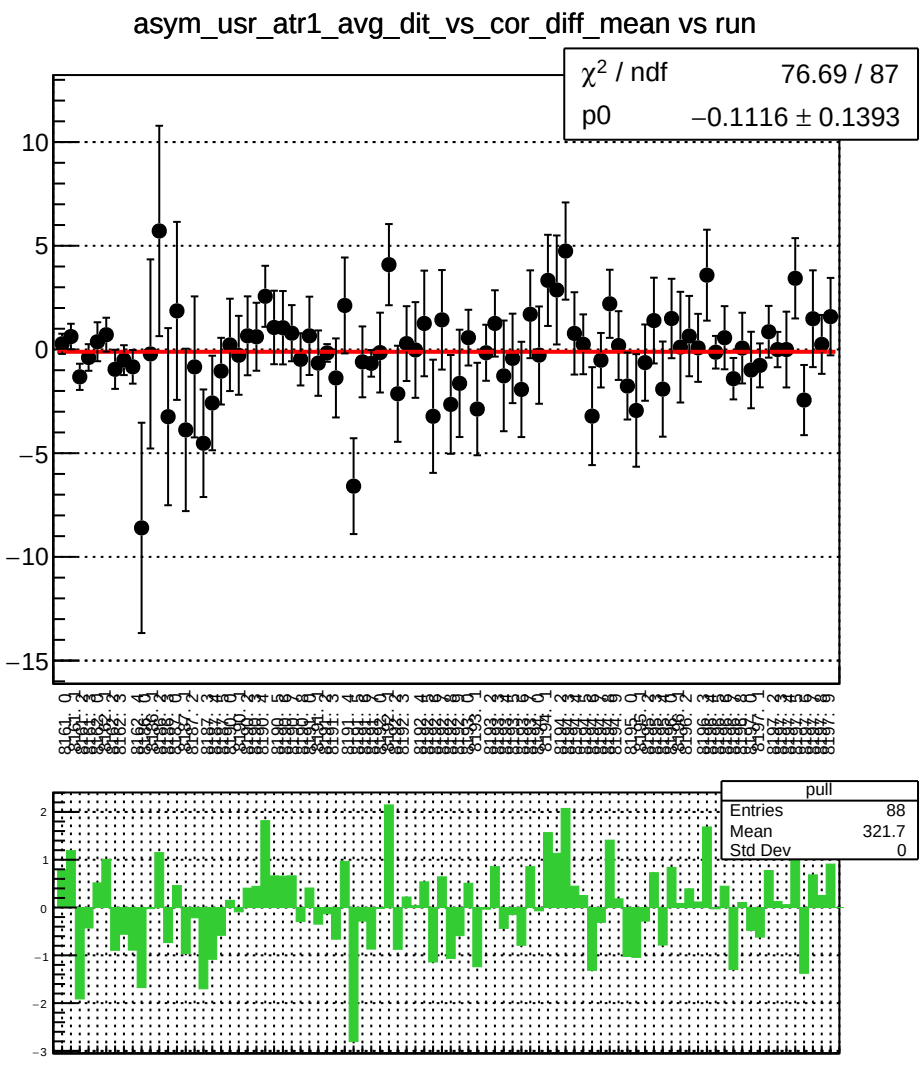

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 61.01 / 87
p0 −686.7 ± 3015
pull
Entries 88
Mean −14.8
Std Dev 0

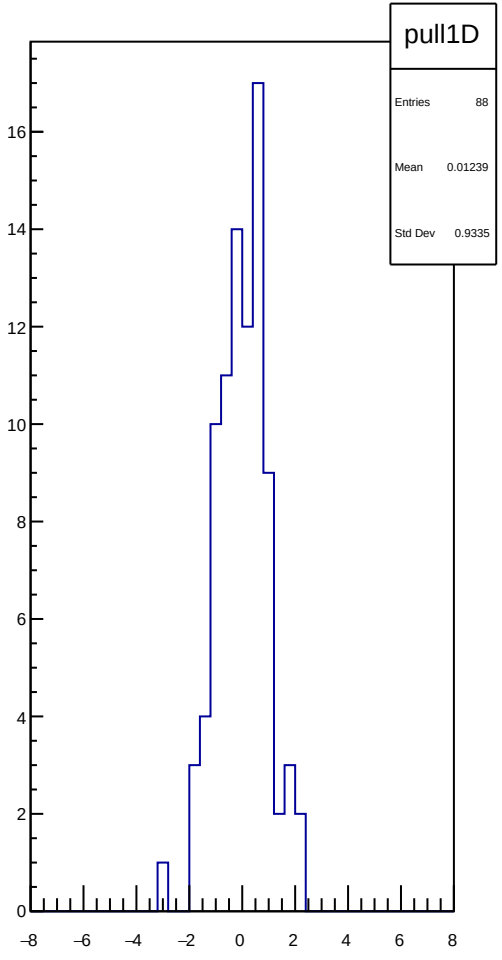

pull1D
Entries 88
Mean −0.007092
Std Dev 0.8326

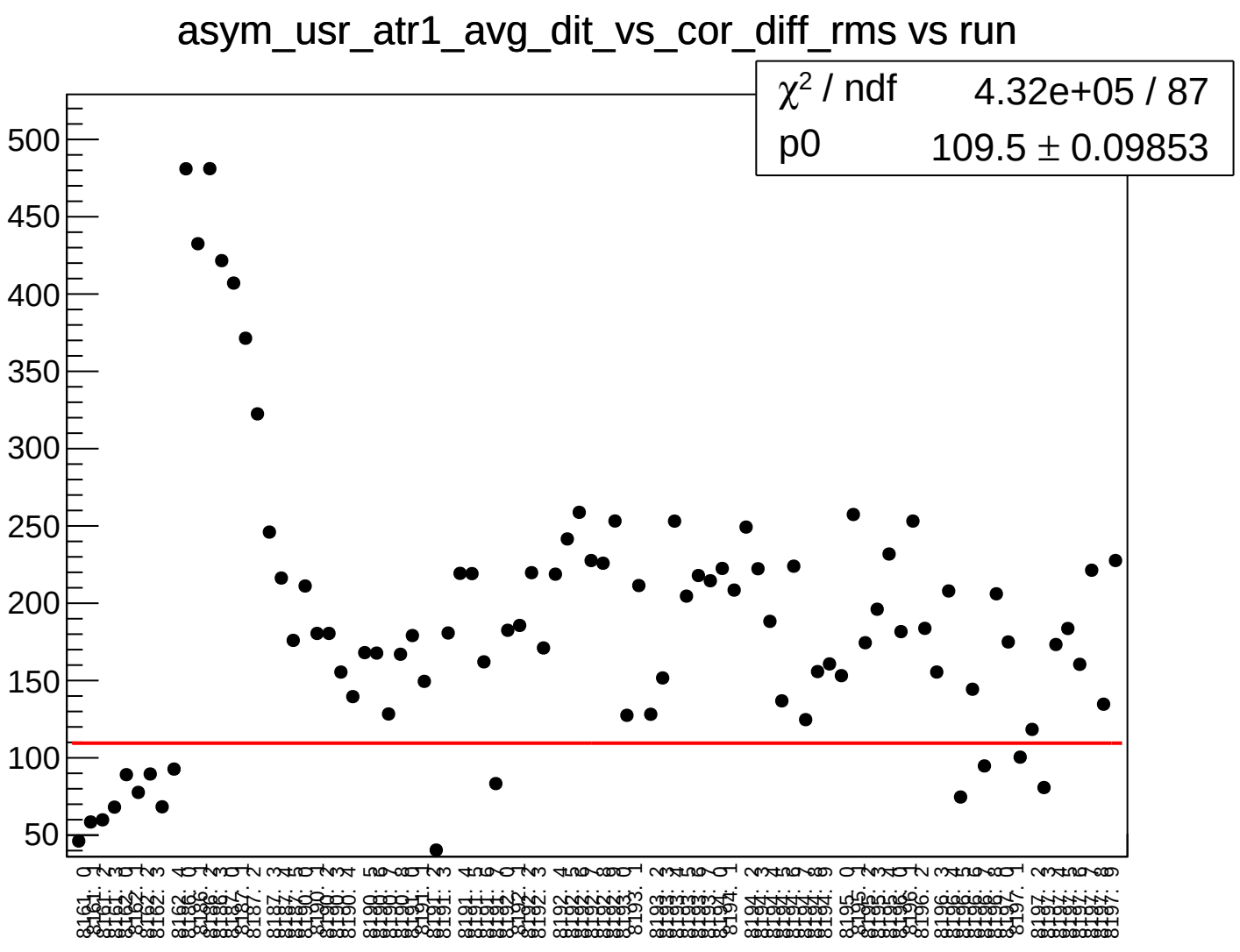

asym_usr_atr1_avg_rms vs run
χ² / ndf 2576 / 87
p0 2750 ± 2.132
3000
2900
2800
2700
2600
2500
2400

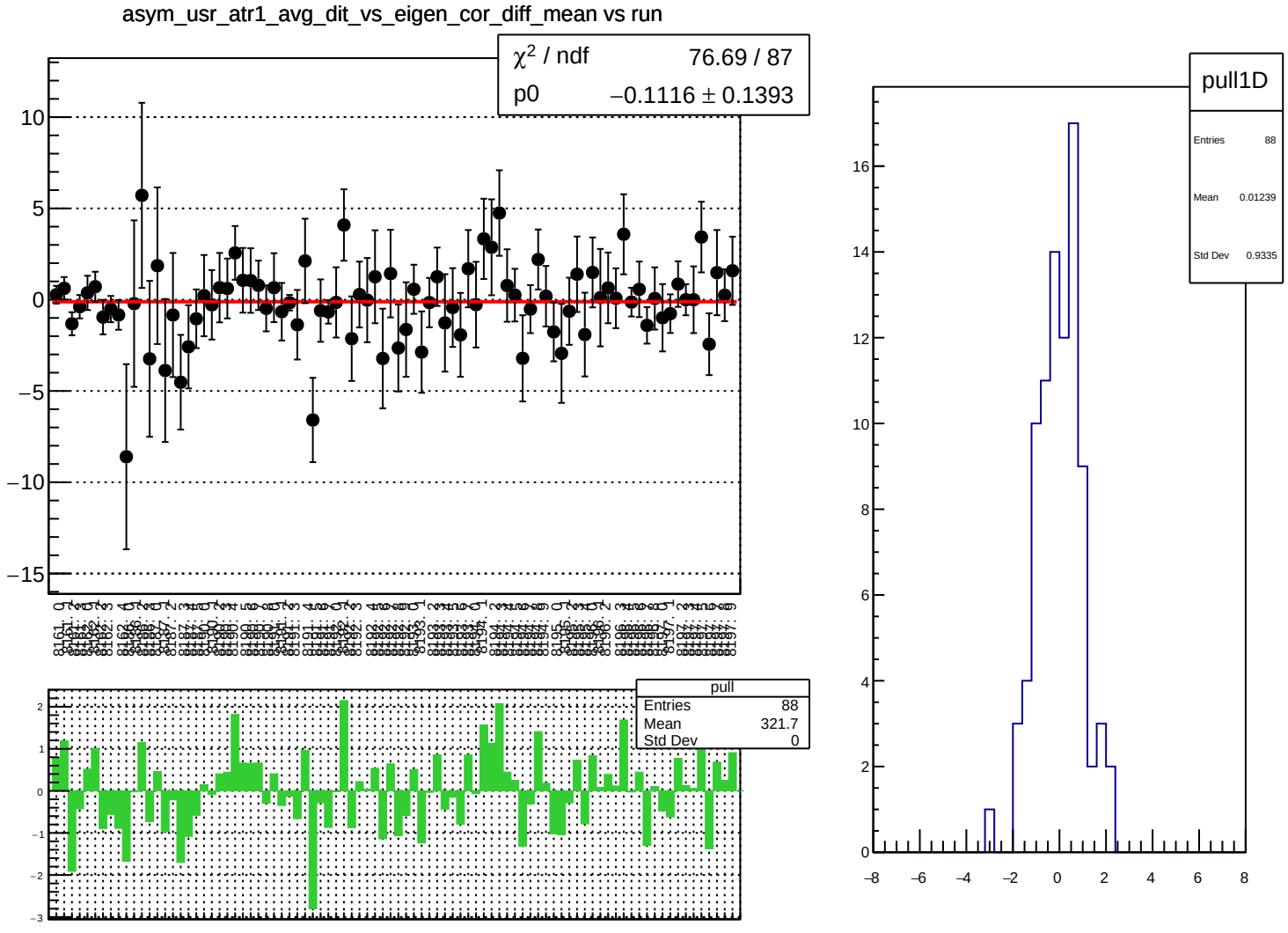

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.66 / 87
p0 −2.198e−13 ± 2.611e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 235.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0307
Std Dev 0.9976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

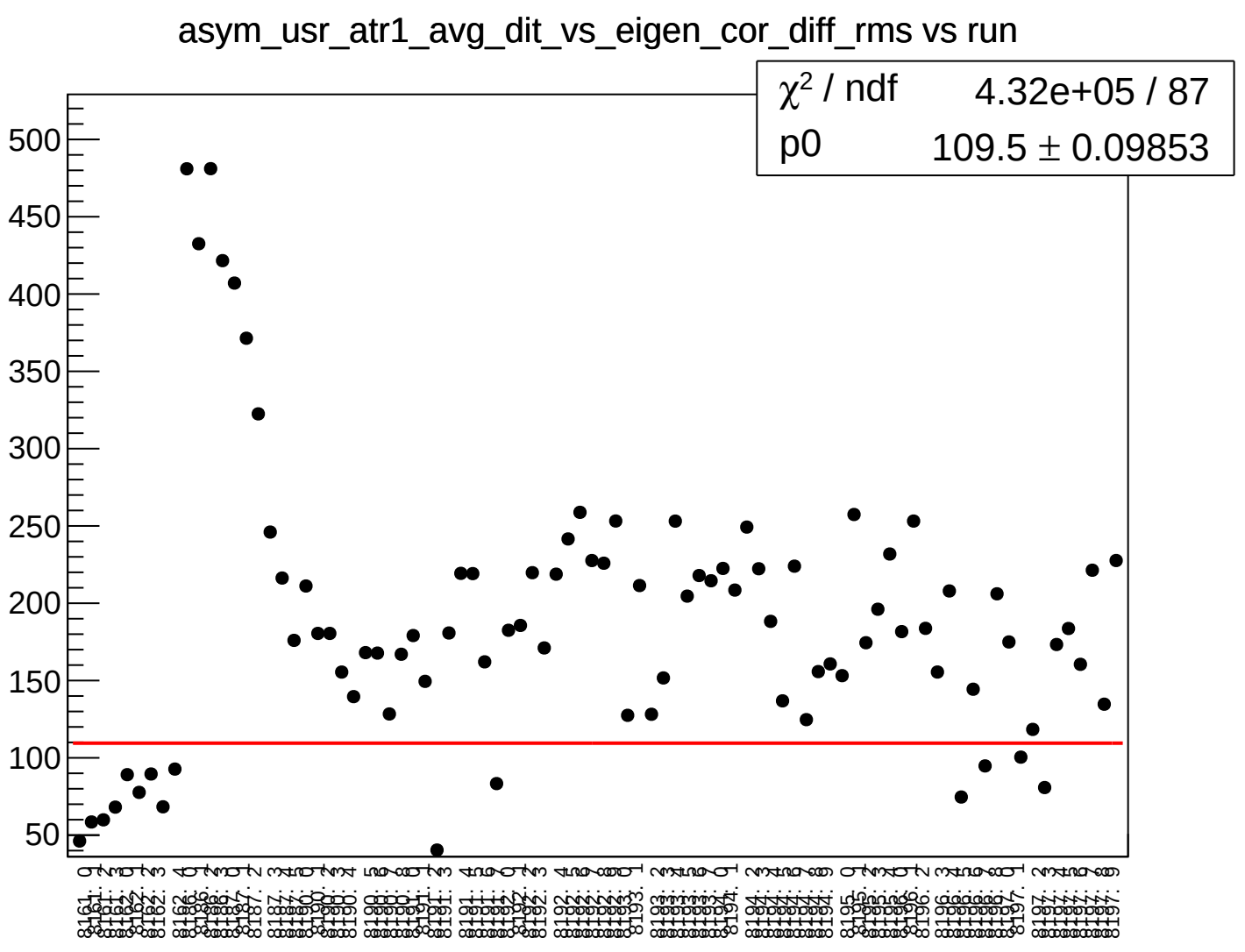

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.671e+05 / 87
p0 1.651e−10 ± 1.847e−13
1.2
1
0.8
0.6
0.4
0.2
0

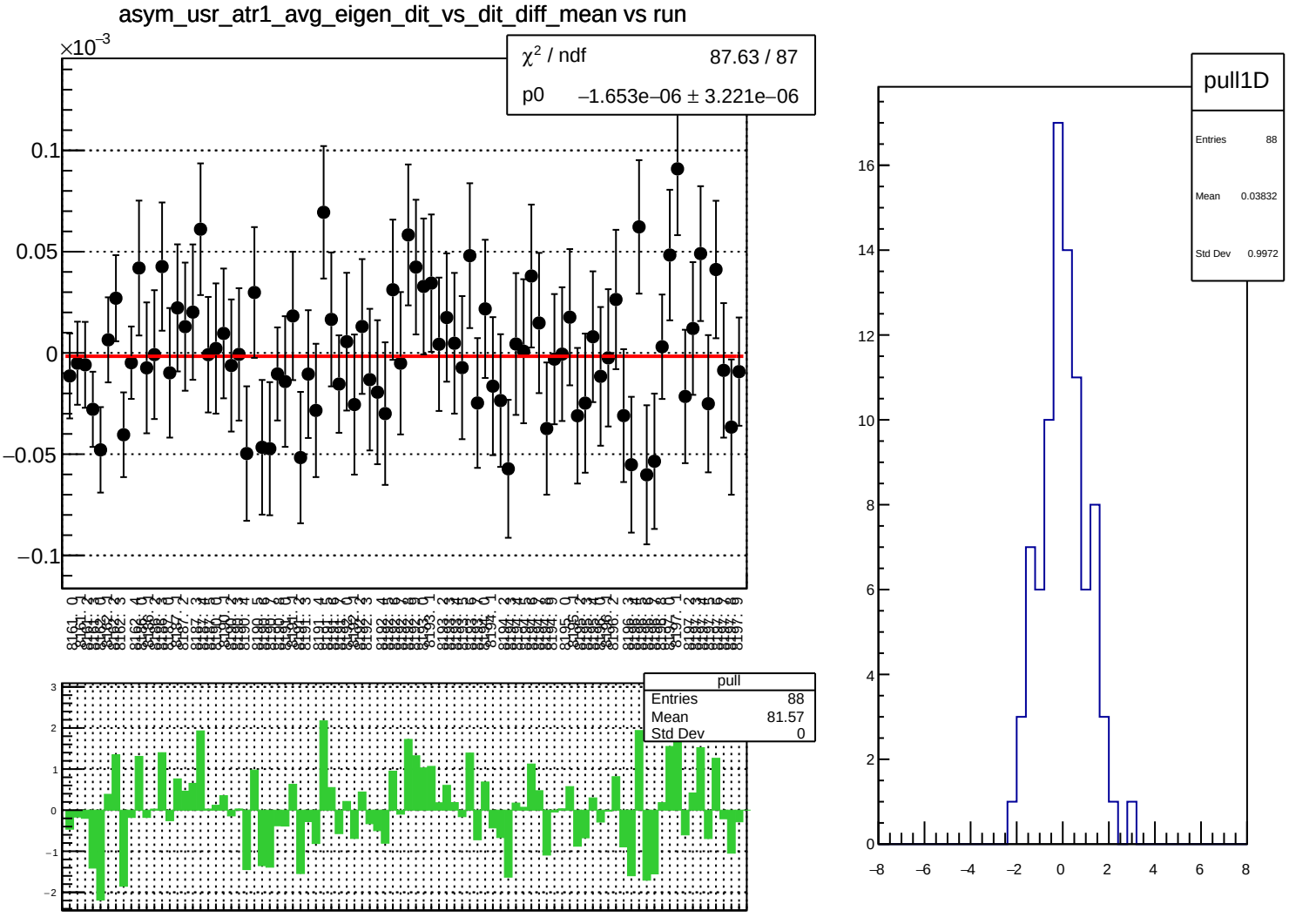

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.69 / 87
p0 −0.1116 ± 0.1393
pull
Entries 88
Mean 321.7
Std Dev 0

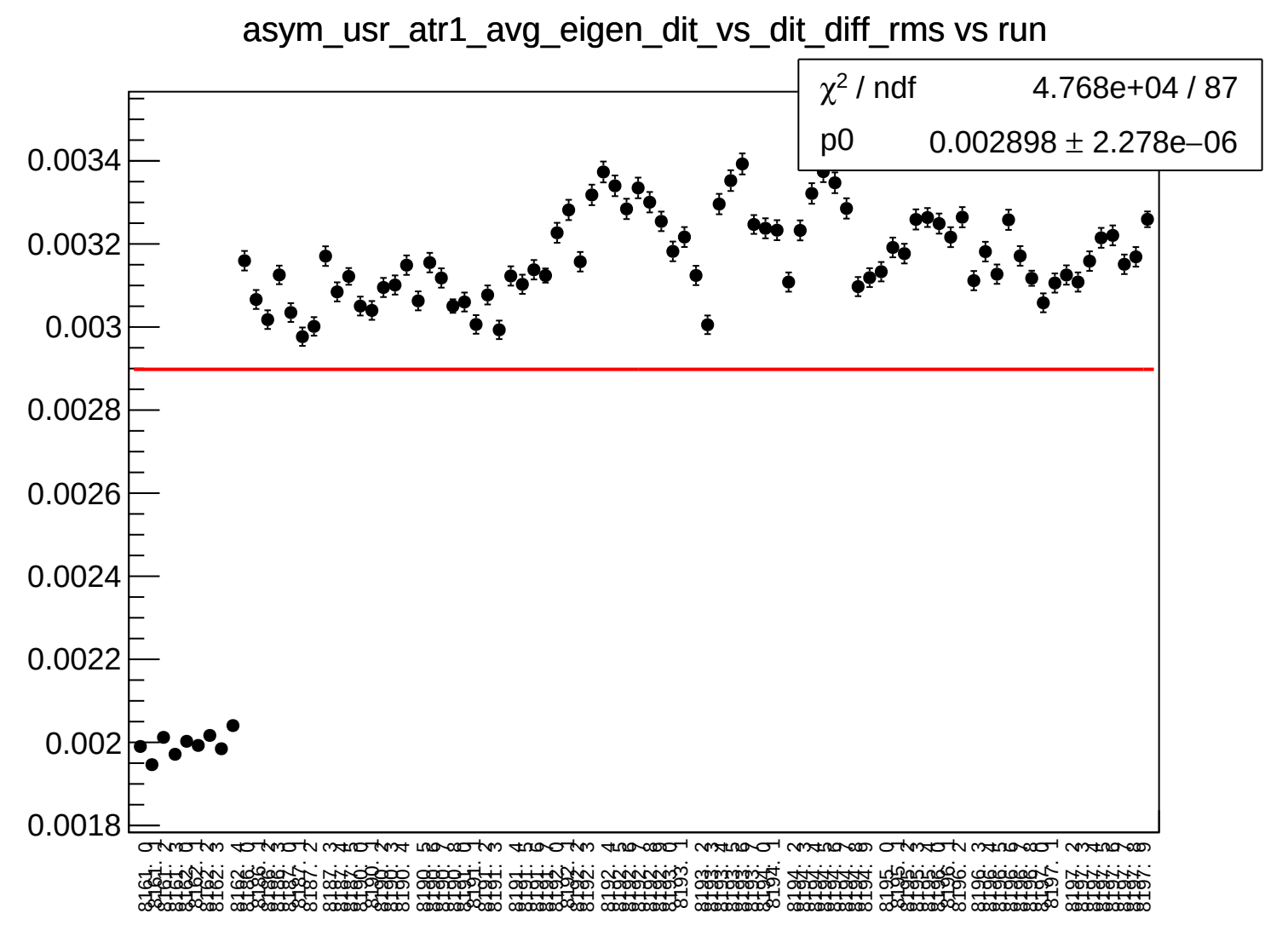

pull1D
Entries 88
Mean 0.01239
Std Dev 0.9335

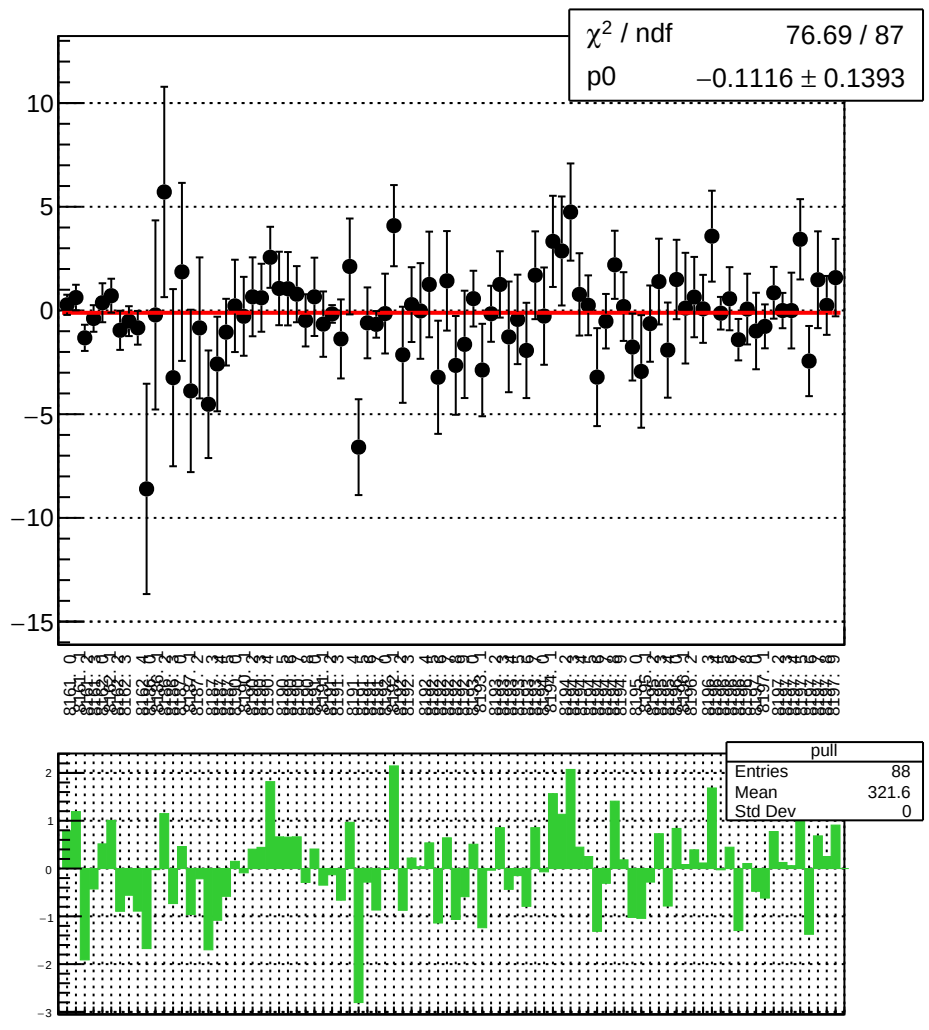

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.32e+05 / 87
p0 109.5 ± 0.09853
500
450
400
350
300
250
200
150
100
50

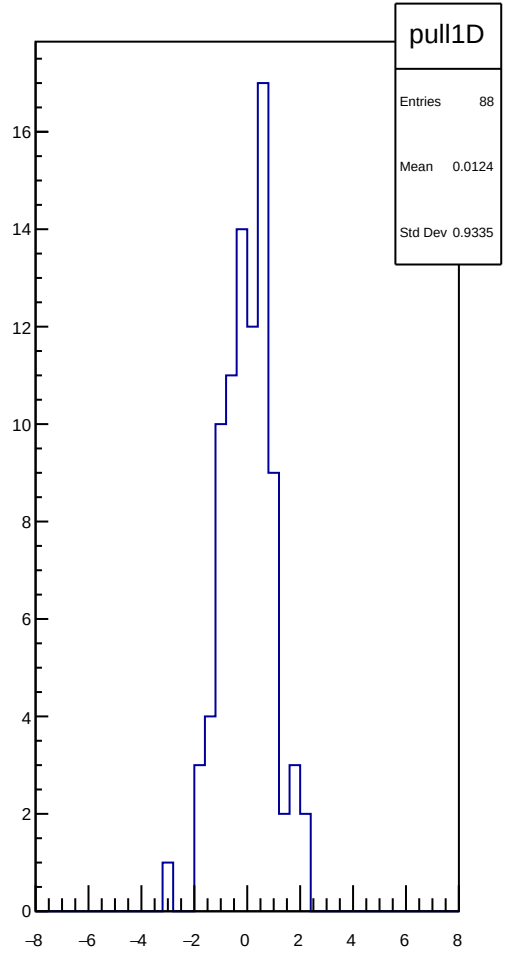

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.69 / 87
p0 −0.1116 ± 0.1393
pull
Entries 88
Mean 321.7
Std Dev 0
pull1D
Entries 88
Mean 0.01239
Std Dev 0.9335

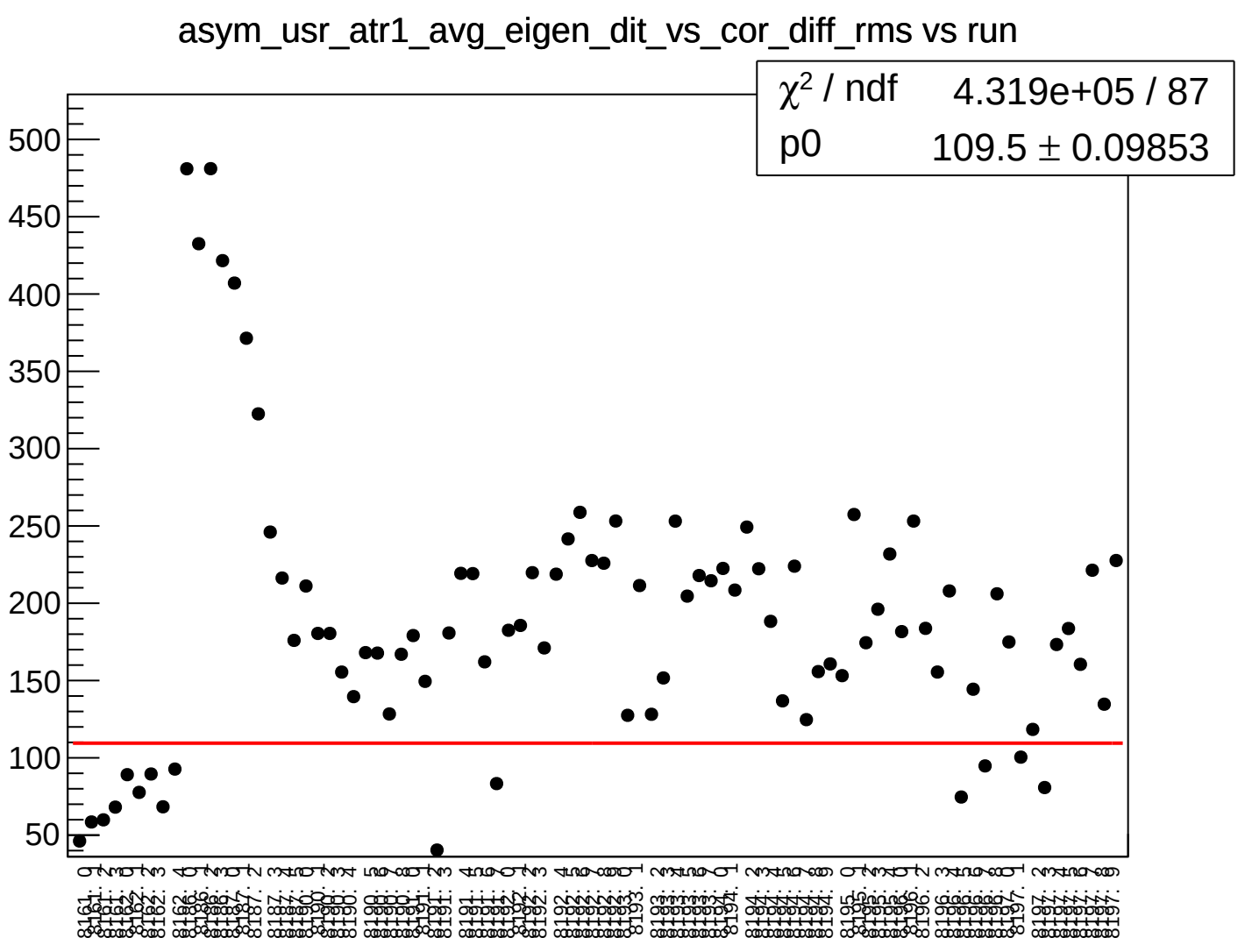

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.32e+05 / 87
p0 109.5 ± 0.09853
500
450
400
350
300
250
200
150
100
50

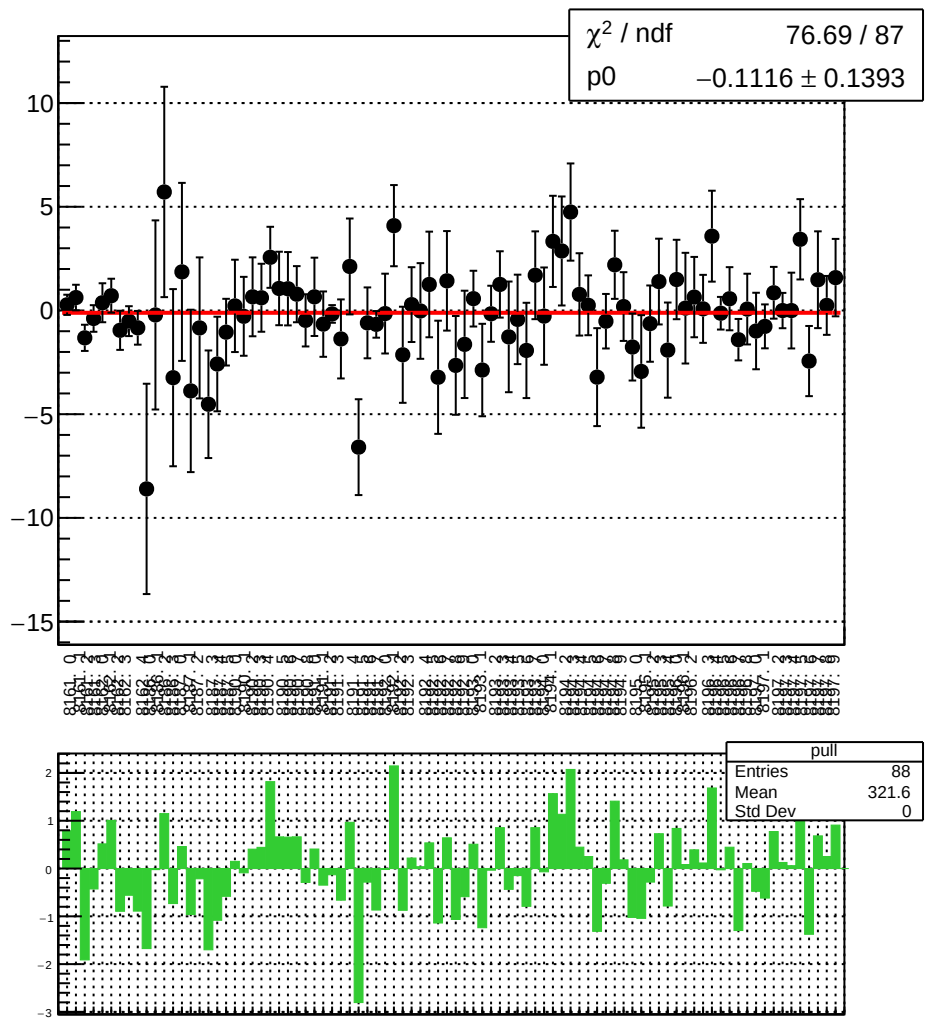

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.63 / 87
p0 −1.653e−06 ± 3.221e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 81.57
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.03832
Std Dev 0.9972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

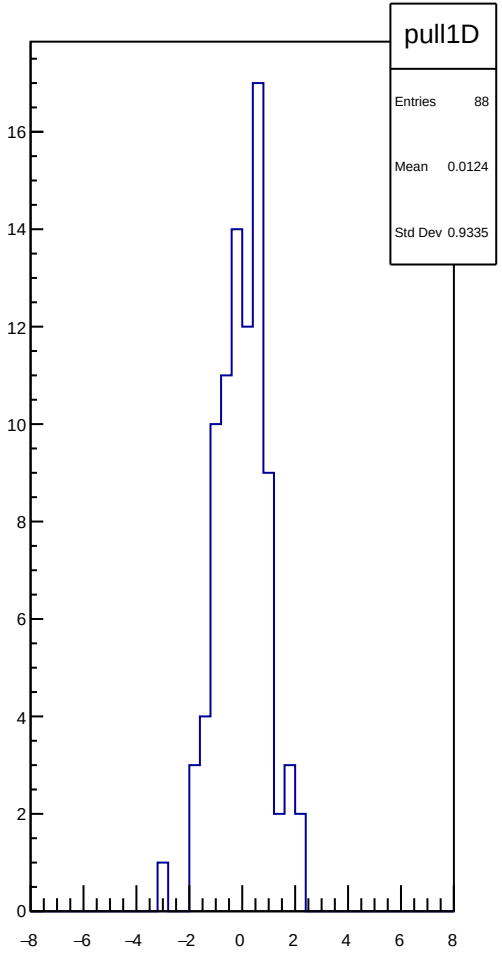

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.768e+04 / 87
p0 0.002898 ± 2.278e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

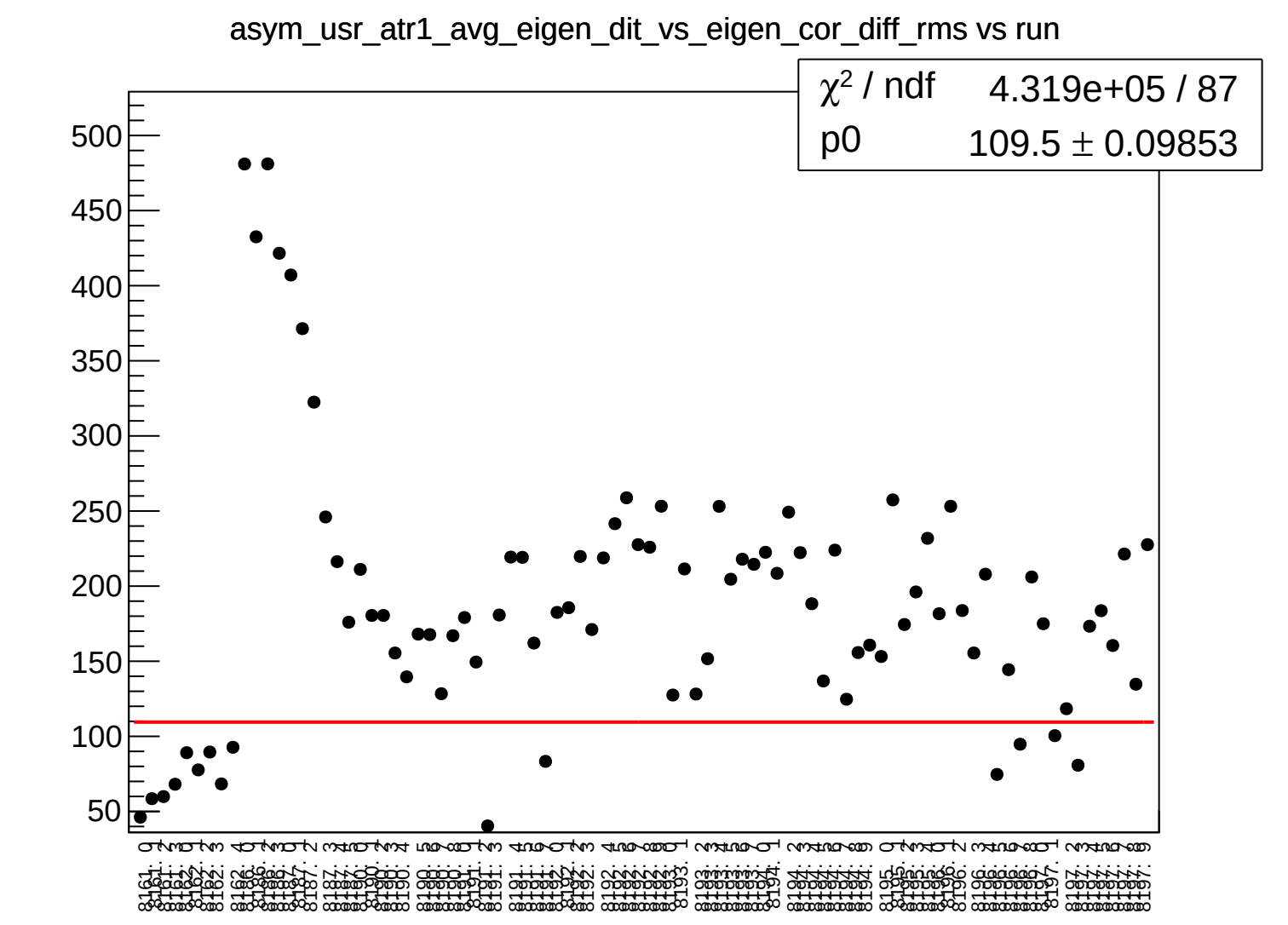

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.69 / 87
p0 −0.1116 ± 0.1393
pull
Entries 88
Mean 321.6
Std Dev 0

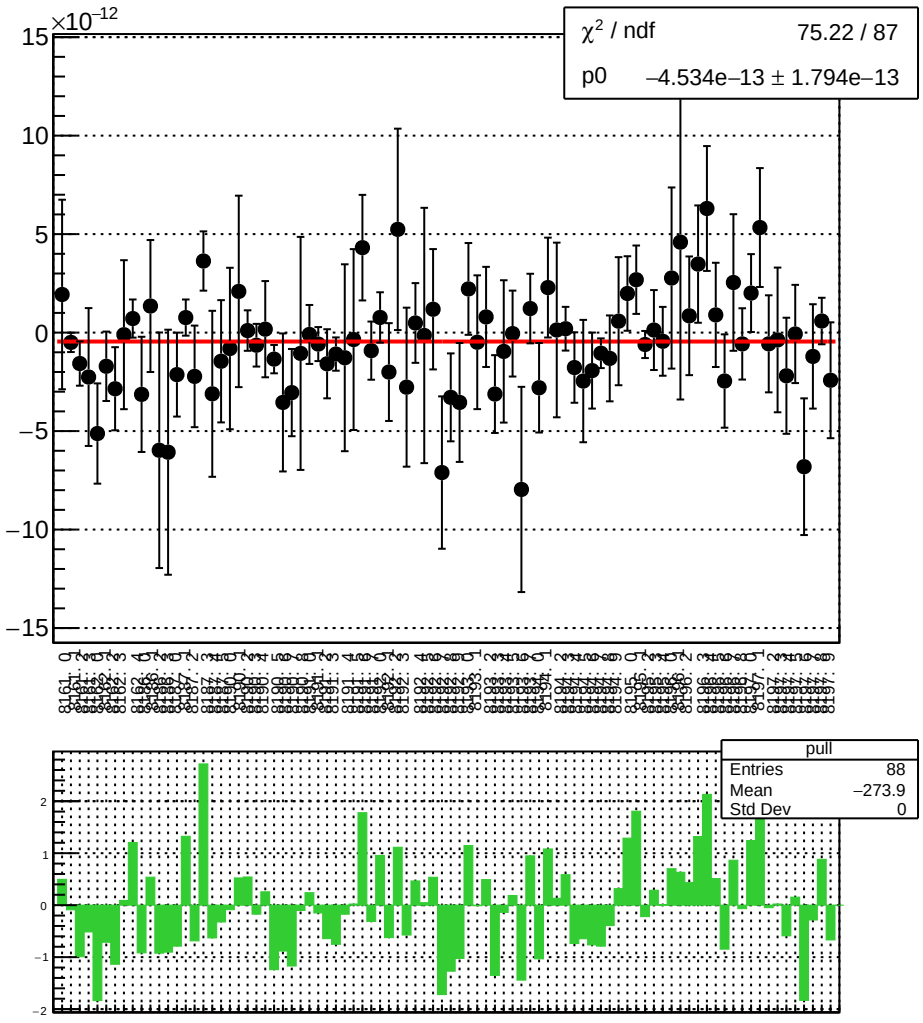

pull1D
Entries 88
Mean 0.0124
Std Dev 0.9335

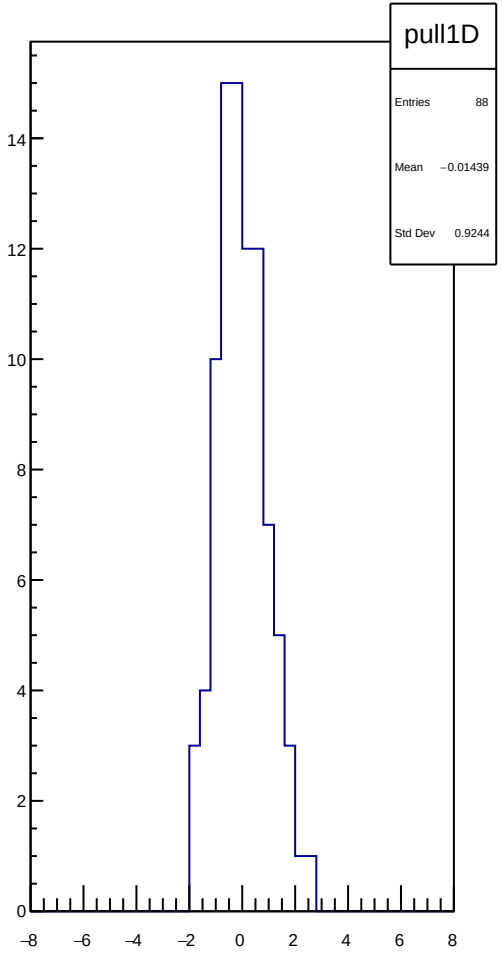

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.319e+05 / 87
p0 109.5 ± 0.09853
500
450
400
350
300
250
200
150
100
50

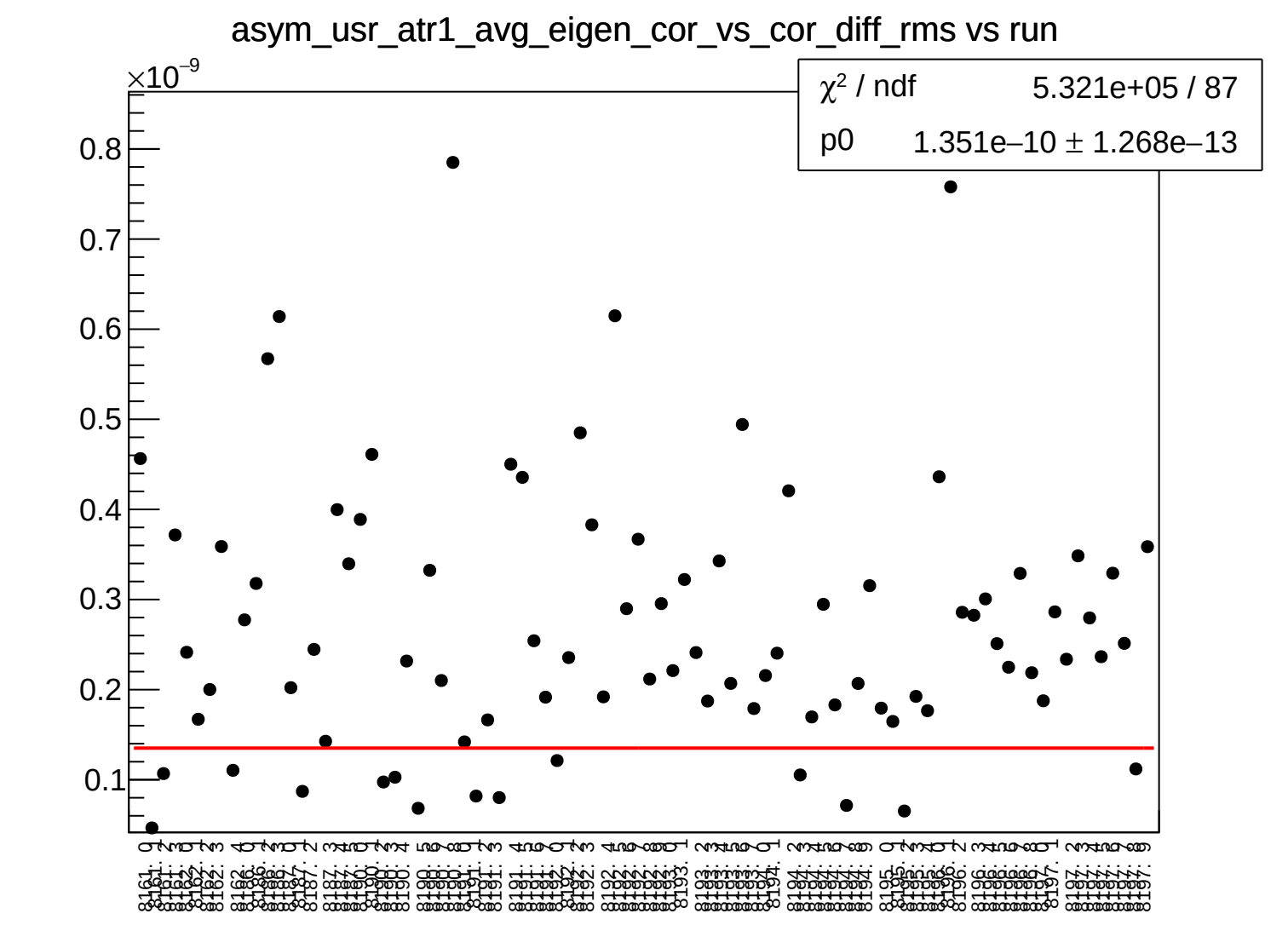

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.69 / 87
p0 −0.1116 ± 0.1393
pull
Entries 88
Mean 321.6
Std Dev 0

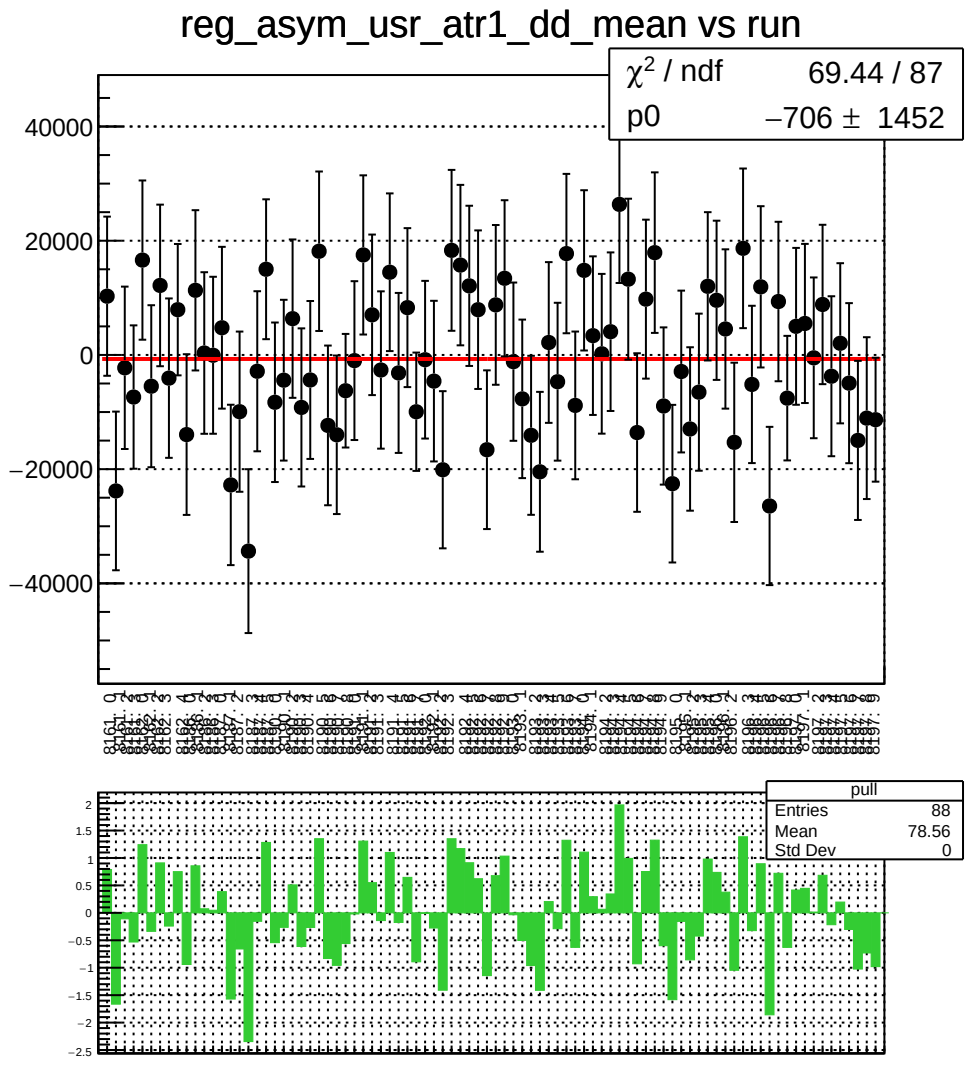

pull1D
Entries 88
Mean 0.0124
Std Dev 0.9335

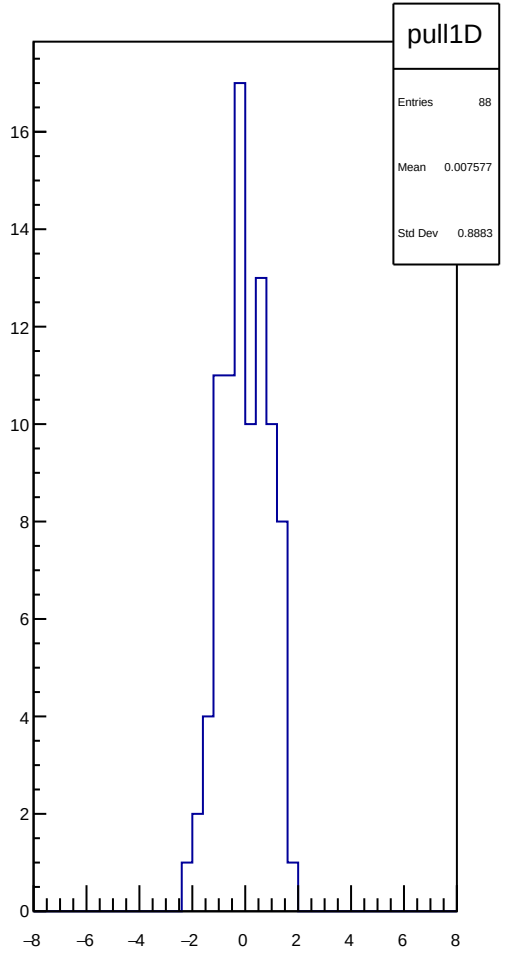

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.319e+05 / 87
p0 109.5 ± 0.09853
500
450
400
350
300
250
200
150
100
50

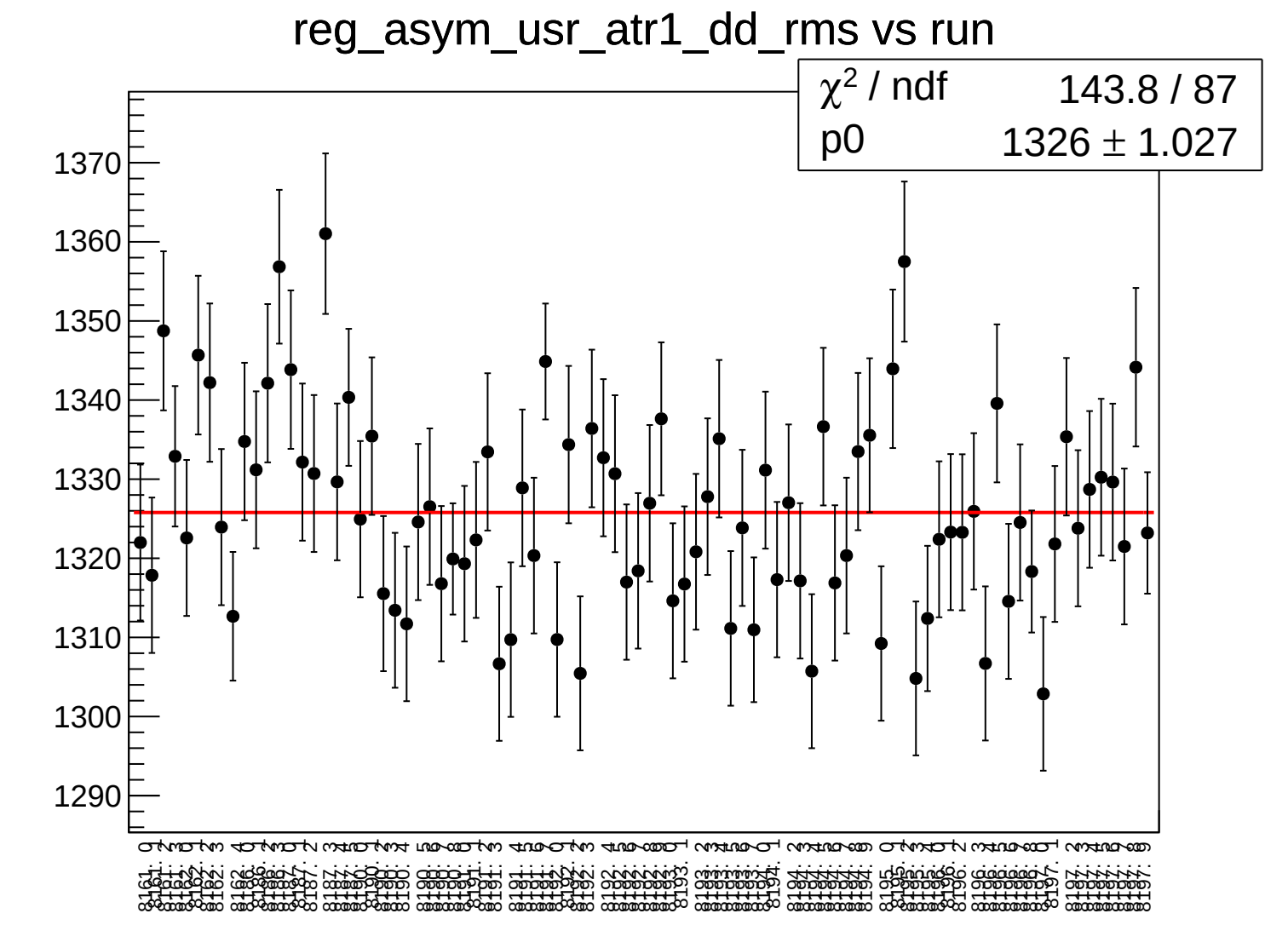

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.22 / 87
p0 −4.534e−13 ± 1.794e−13
pull
Entries 88
Mean −273.9
Std Dev 0

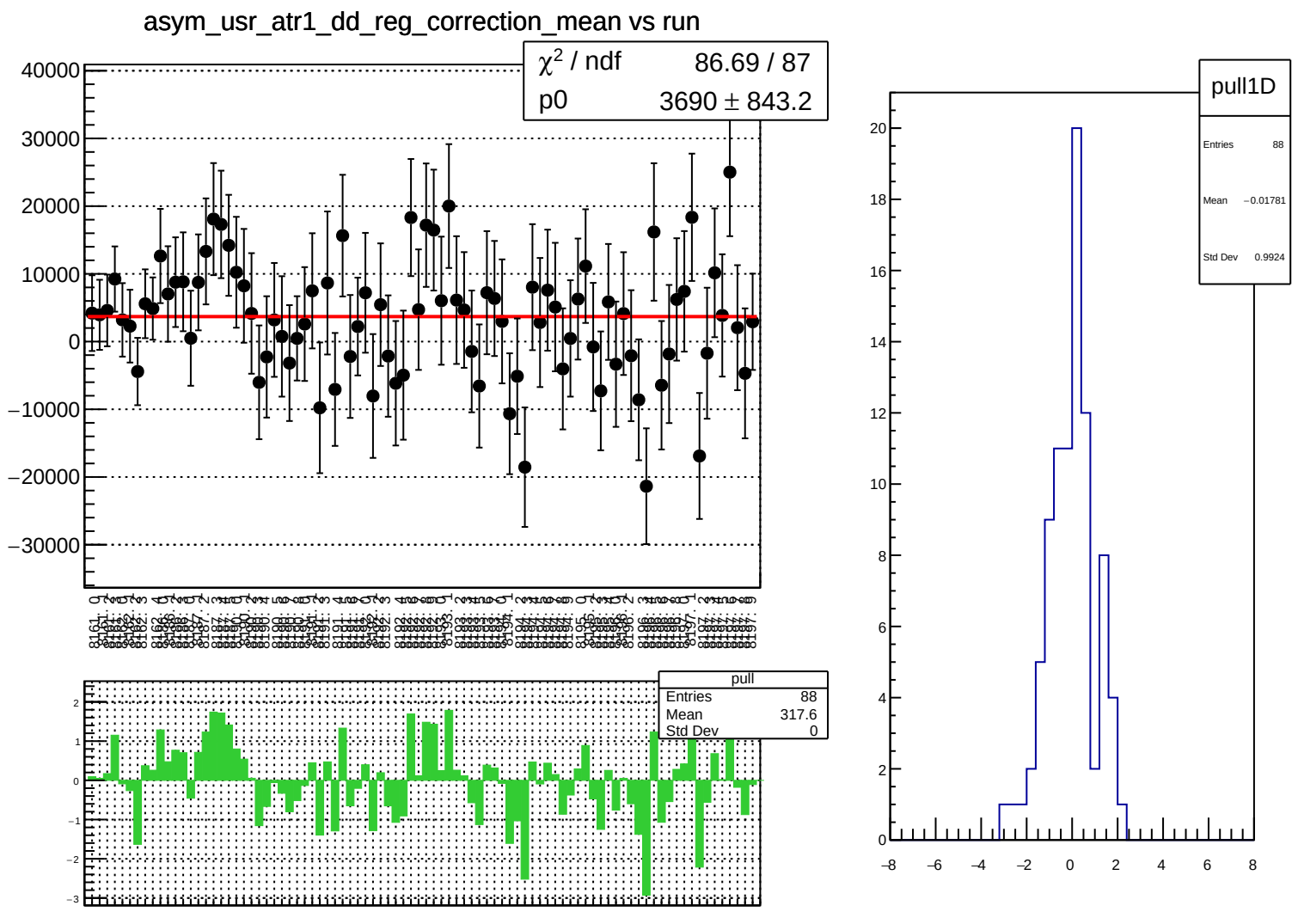

pull1D
Entries 88
Mean −0.01439
Std Dev 0.9244

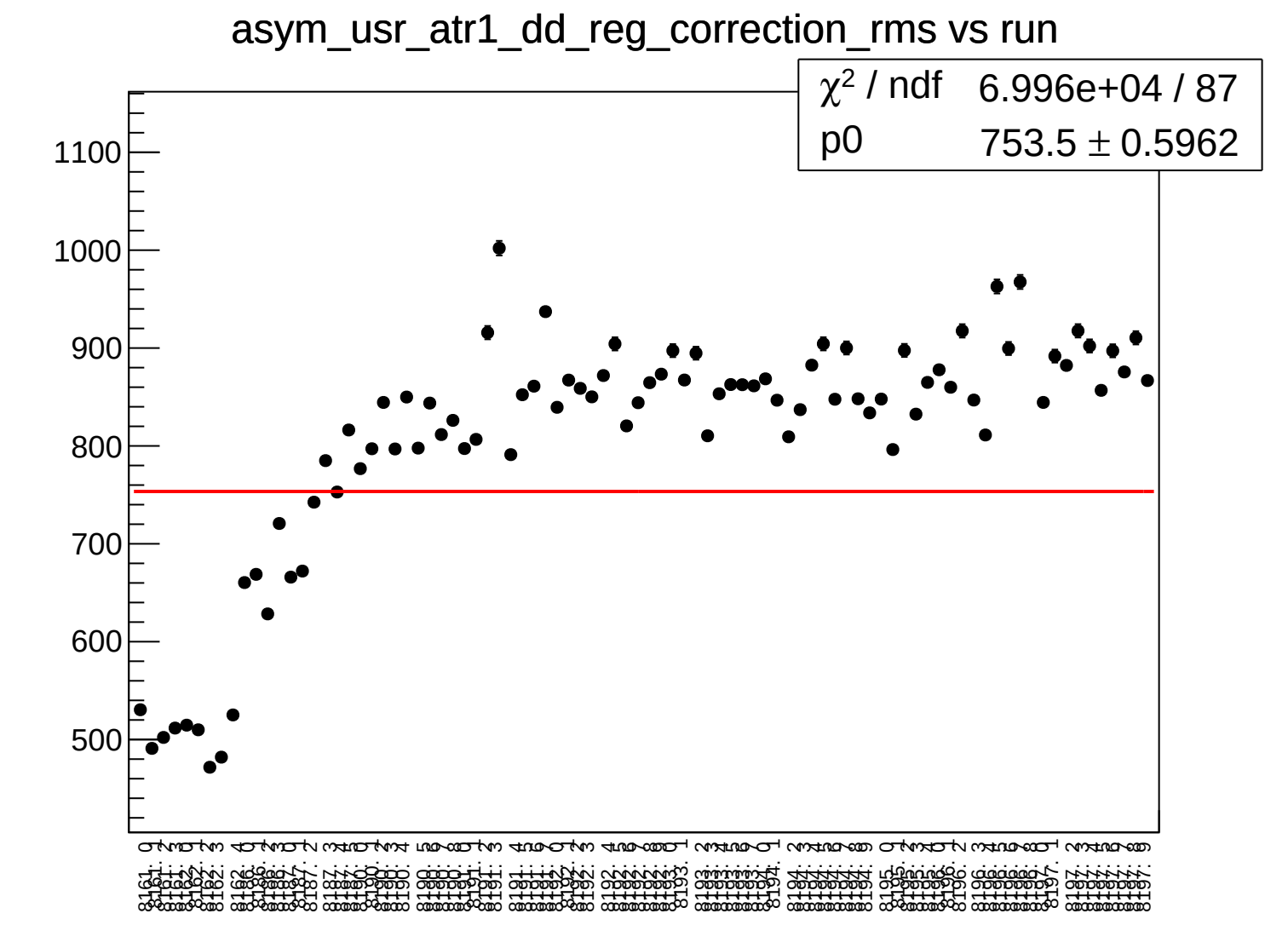

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.321e+05 / 87
p0 1.351e−10 ± 1.268e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

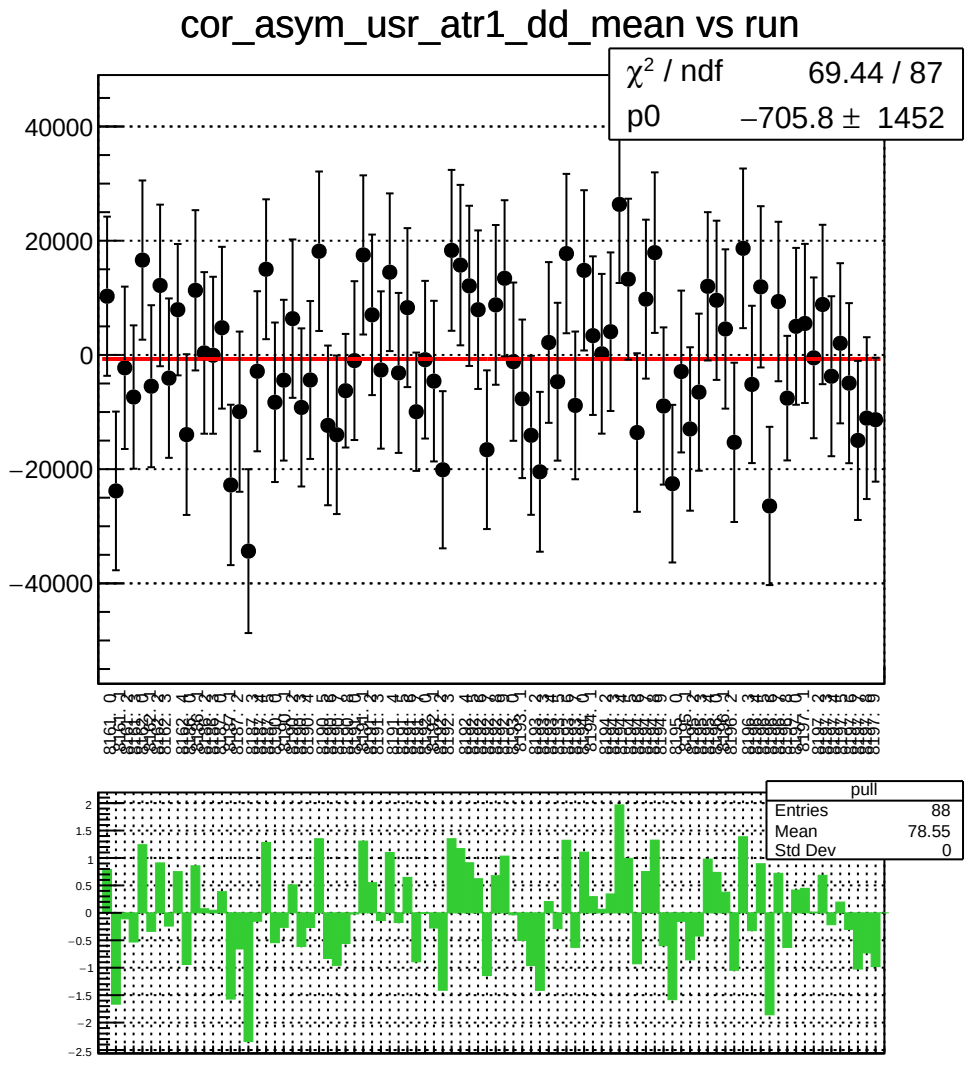

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 69.44 / 87
p0 −706 ± 1452
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 78.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

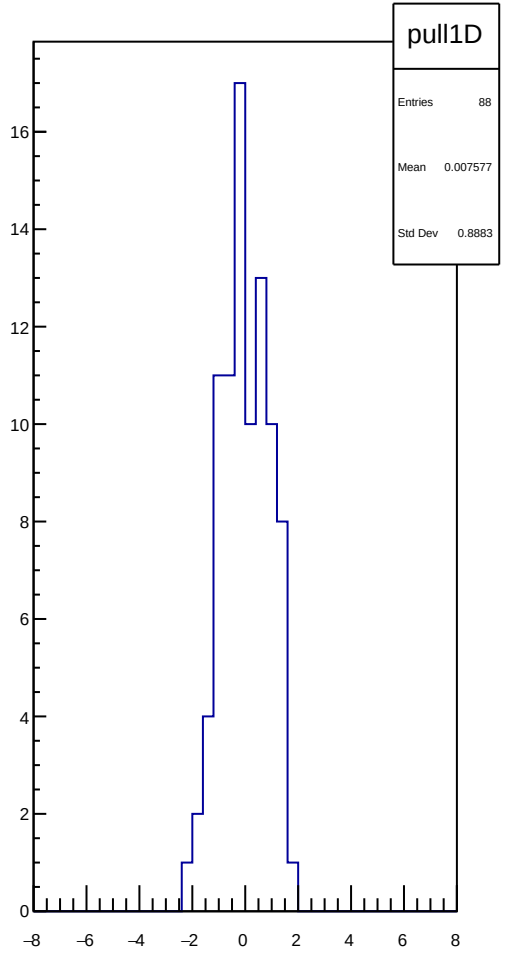

pull1D
Entries 88
Mean 0.007577
Std Dev 0.8883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

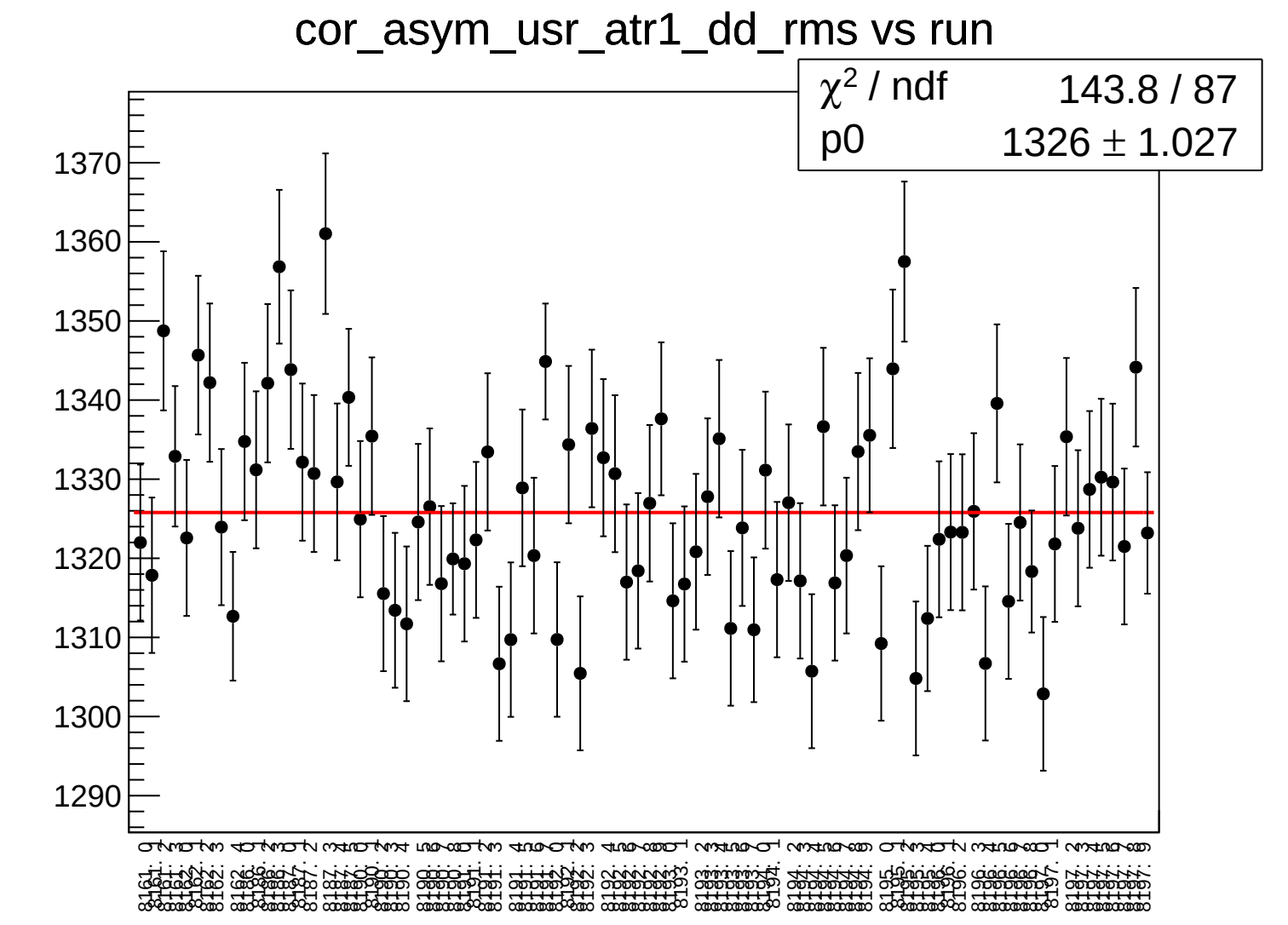

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 143.8 / 87
p0 1326 ± 1.027
1370
1360
1350
1340
1330
1320
1310
1300
1290

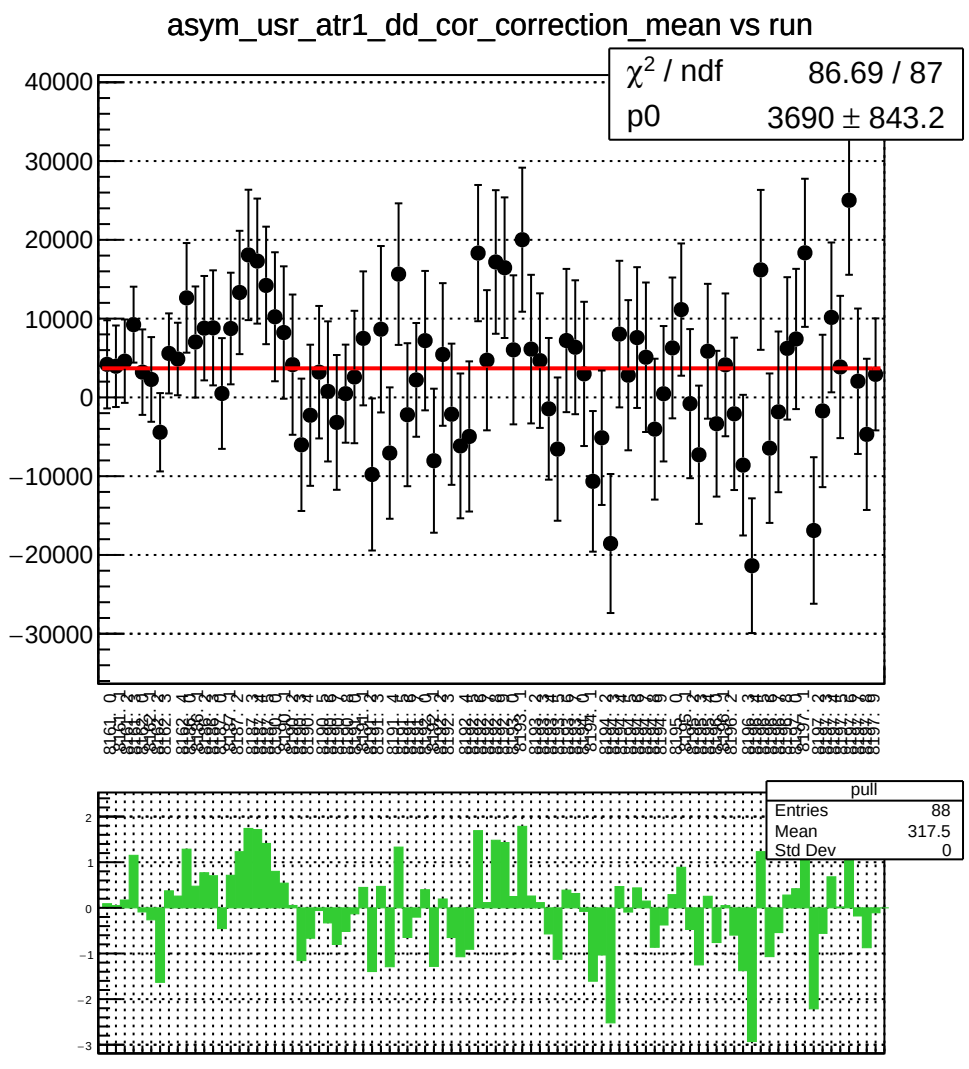

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 86.69 / 87
p0 3690 ± 843.2
pull
Entries 88
Mean 317.6
Std Dev 0
pull1D
Entries 88
Mean −0.01781
Std Dev 0.9924

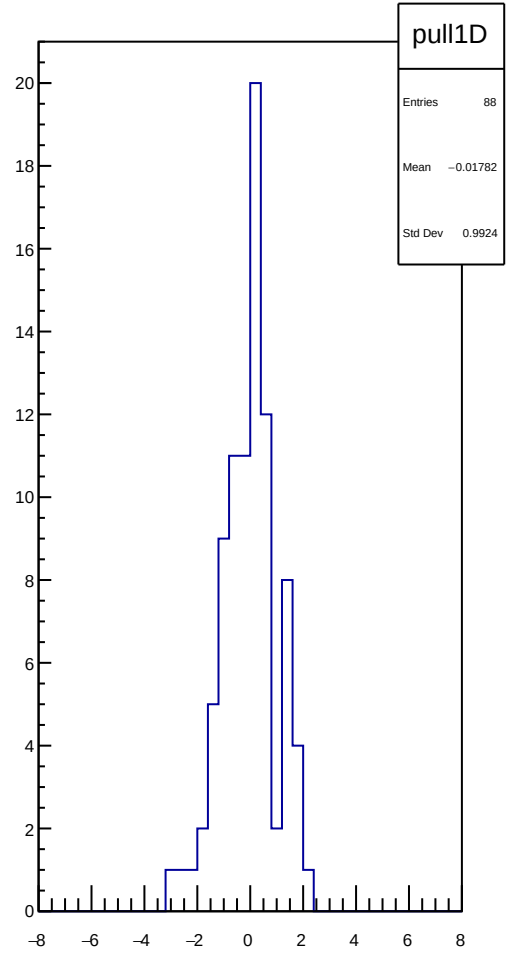

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 6.996e+04 / 87
p0 753.5 ± 0.5962
1100
1000
900
800
700
600
500

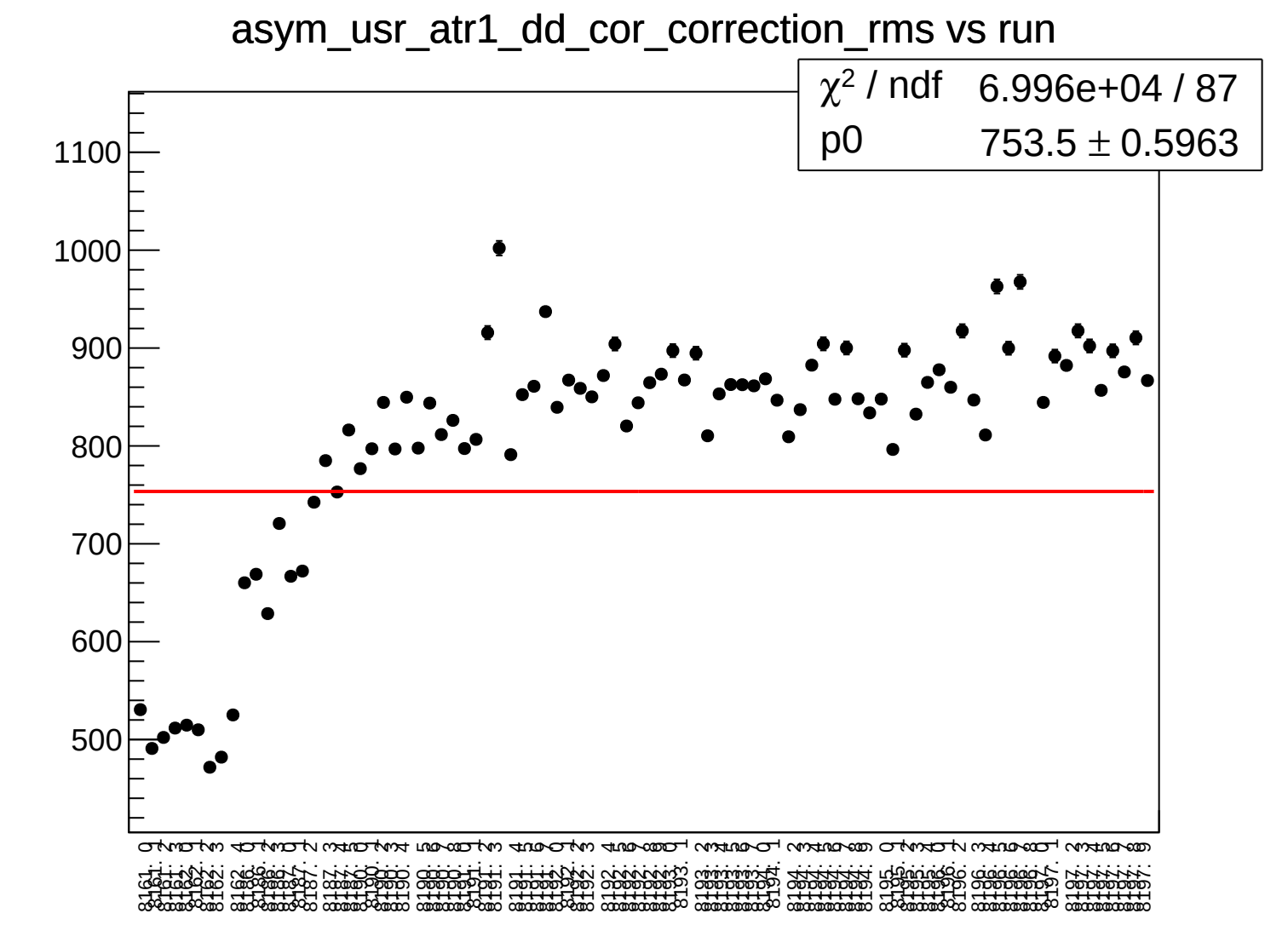

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 69.44 / 87
p0 −705.8 ± 1452
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 78.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

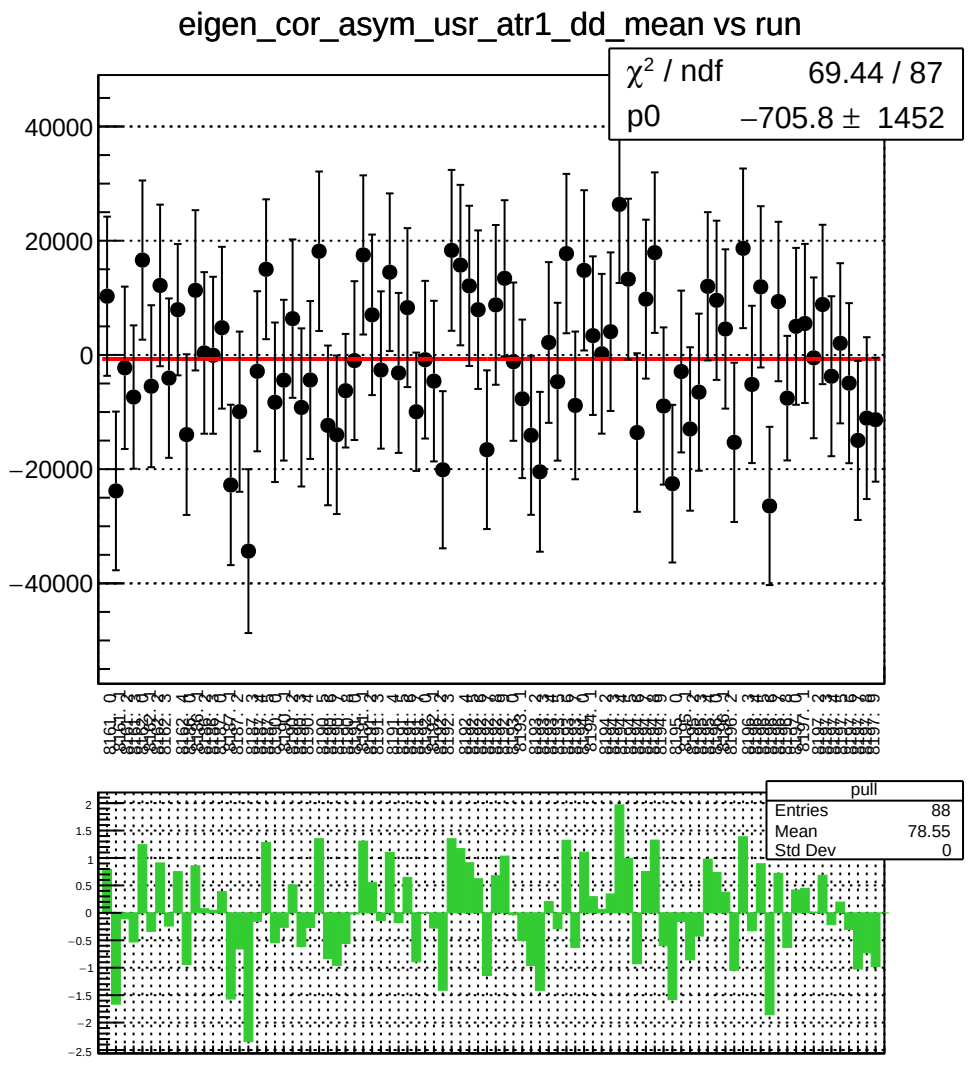

pull1D
Entries 88
Mean 0.007577
Std Dev 0.8883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

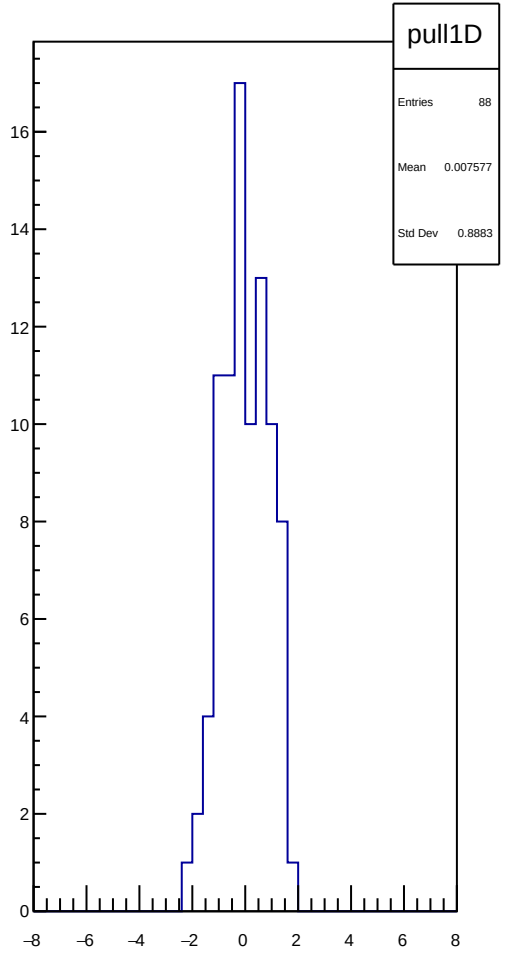

cor_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 143.8 / 87
p0 1326 ± 1.027
1370
1360
1350
1340
1330
1320
1310
1300
1290

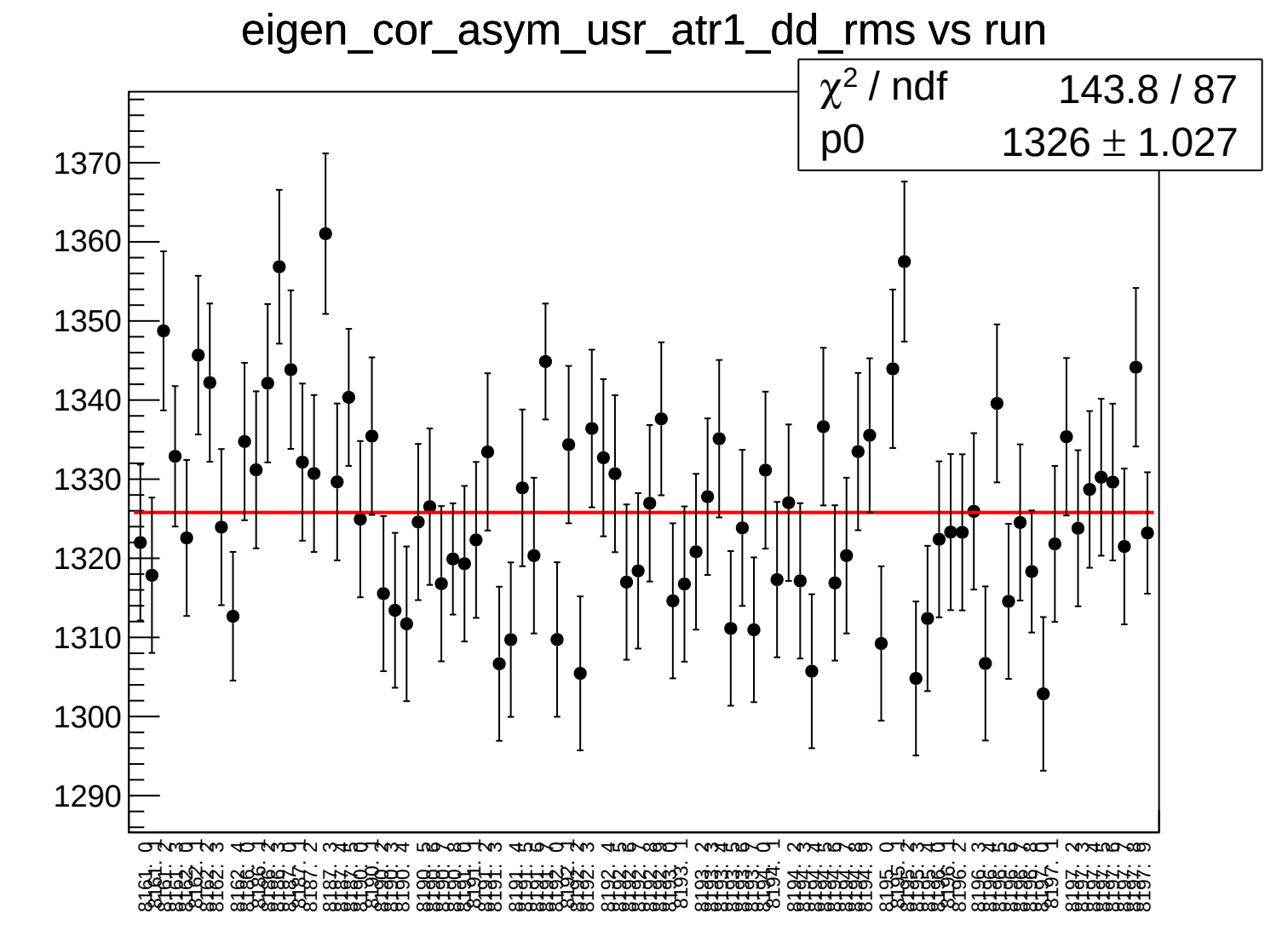

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 86.69 / 87
p0 3690 ± 843.2
pull
Entries 88
Mean 317.5
Std Dev 0

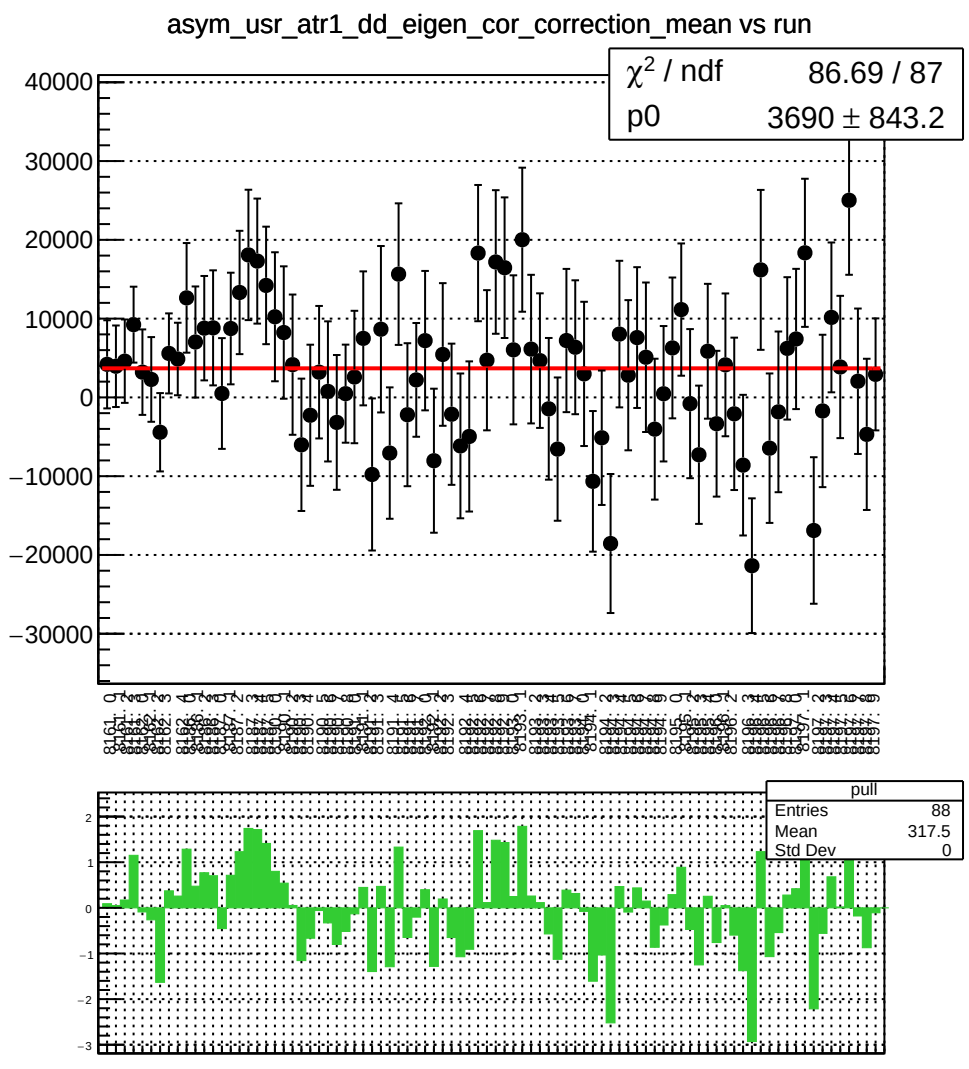

pull1D
Entries 88
Mean −0.01782
Std Dev 0.9924

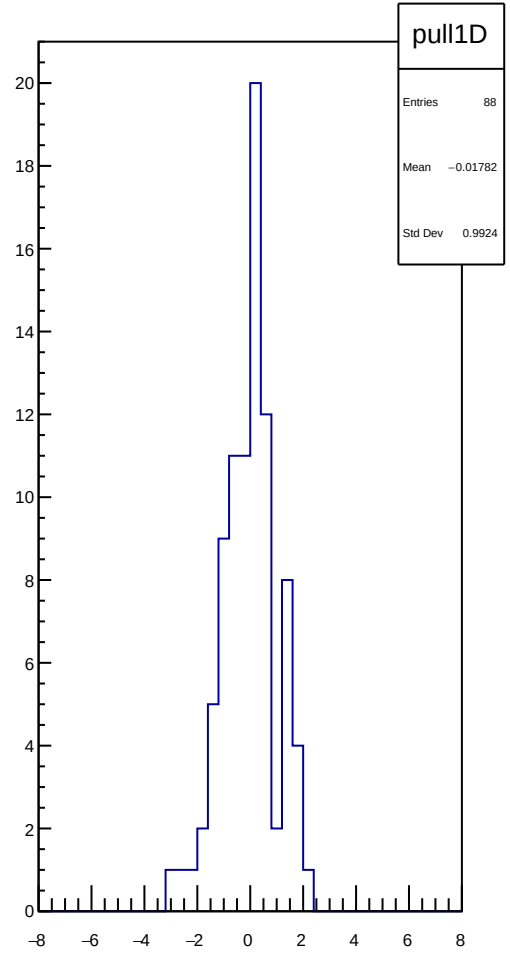

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 6.996e+04 / 87
p0 753.5 ± 0.5963
1100
1000
900
800
700
600
500

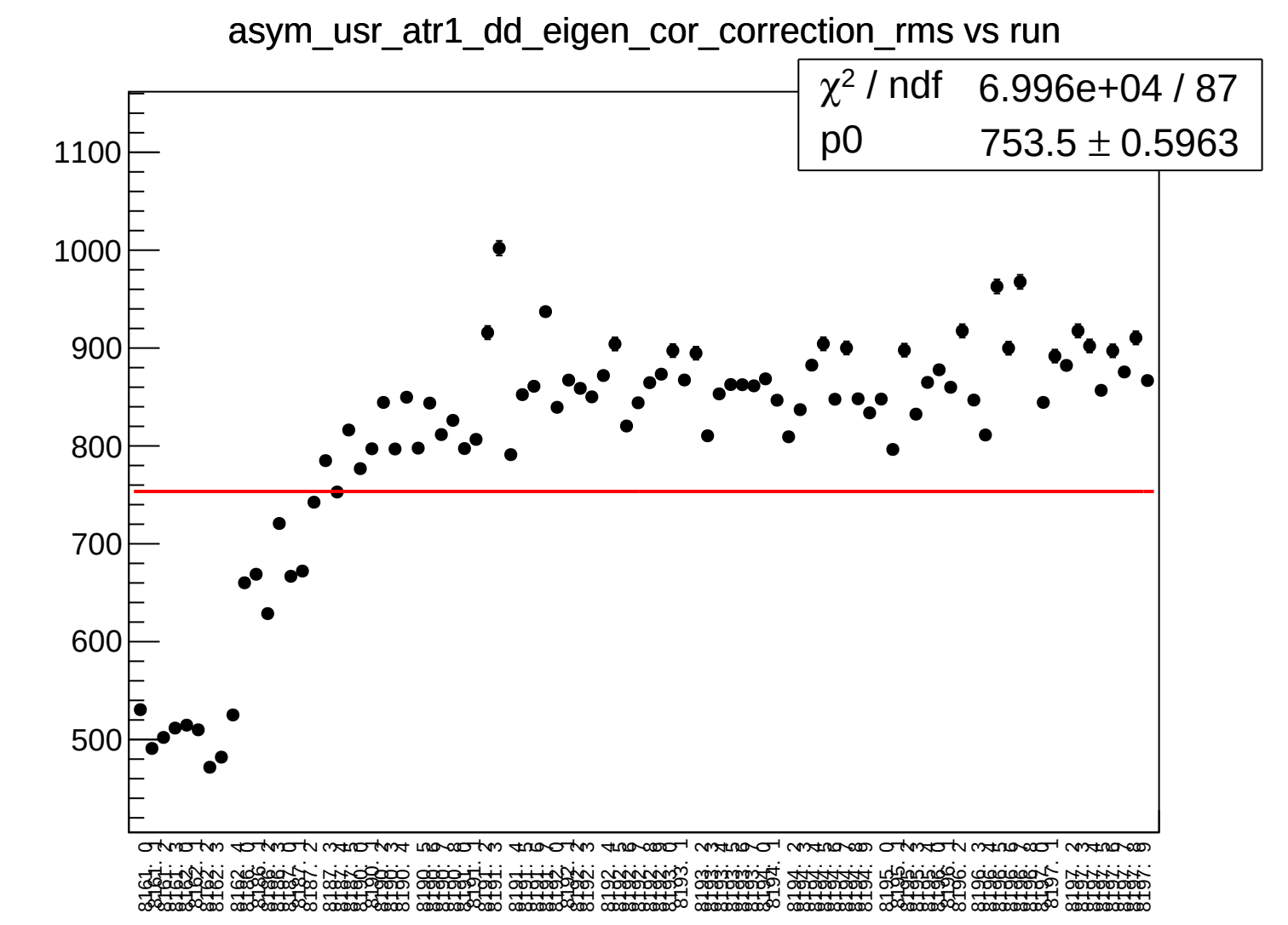

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 69.44 / 87
p0 −705.8 ± 1452
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 78.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

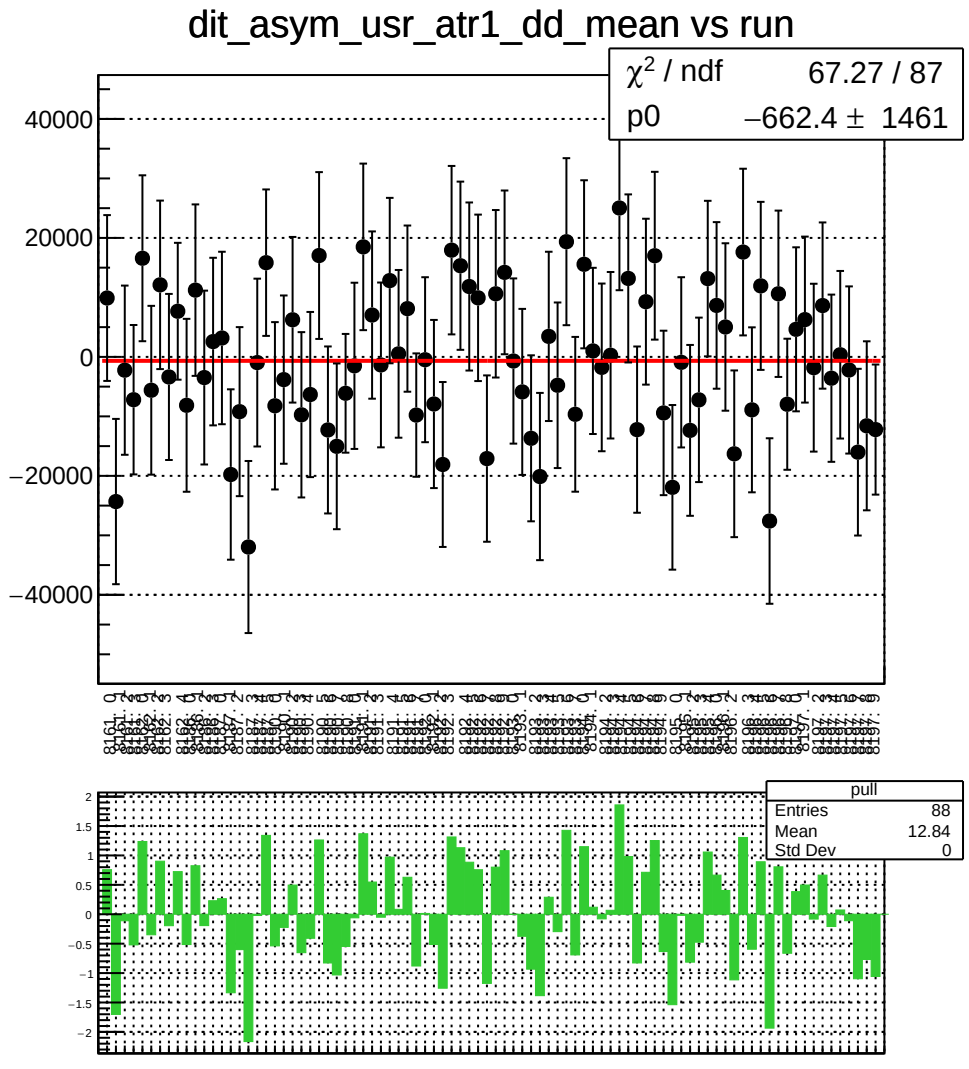

pull1D
Entries 88
Mean 0.007577
Std Dev 0.8883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

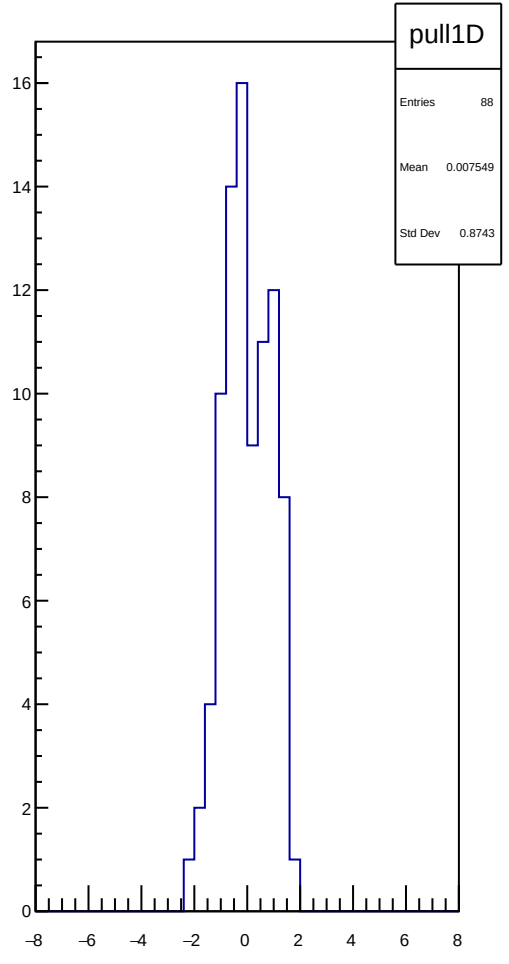

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 143.8 / 87
p0 1326 ± 1.027
1370
1360
1350
1340
1330
1320
1310
1300
1290

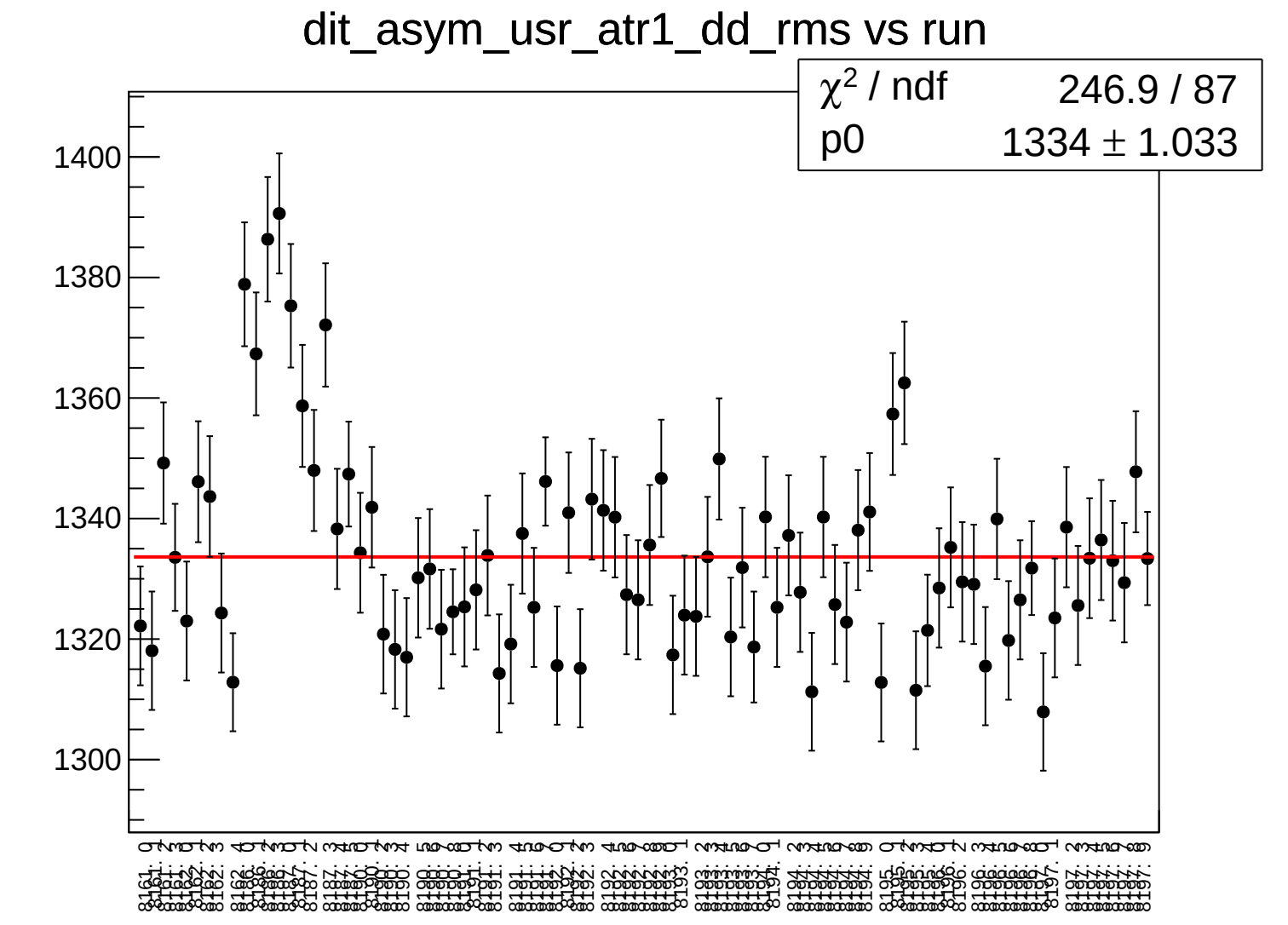

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.69 / 87
p0 3690 ± 843.2
pull
Entries 88
Mean 317.5
Std Dev 0

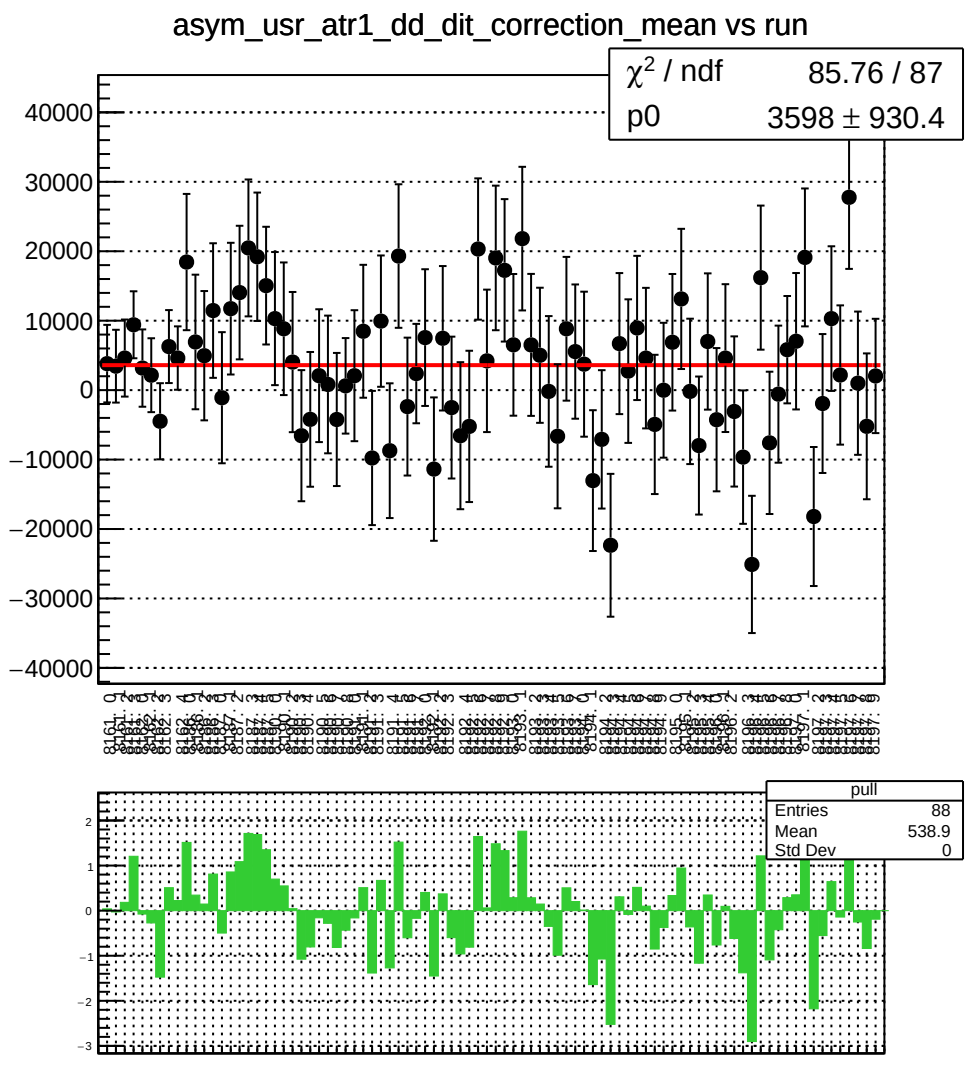

pull1D
Entries 88
Mean −0.01782
Std Dev 0.9924

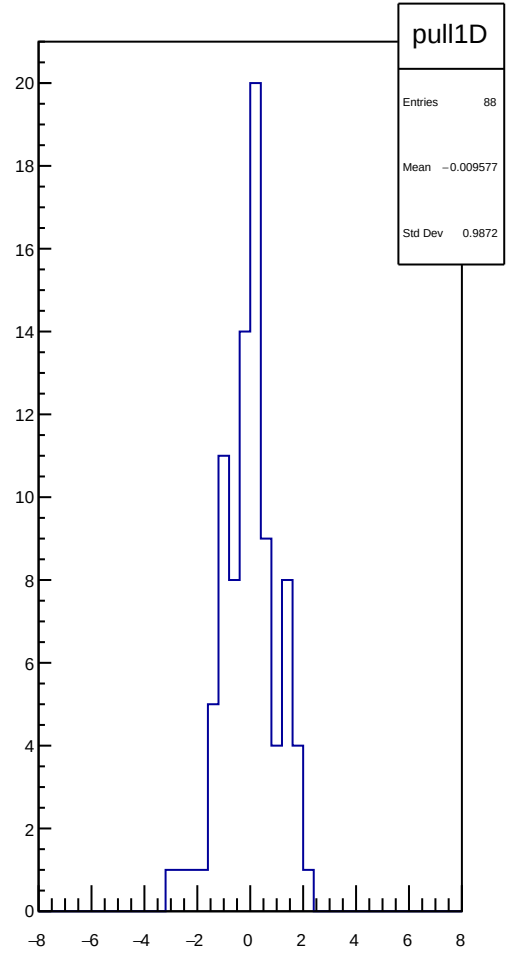

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.996e+04 / 87
p0 753.5 ± 0.5963
1100
1000
900
800
700
600
500

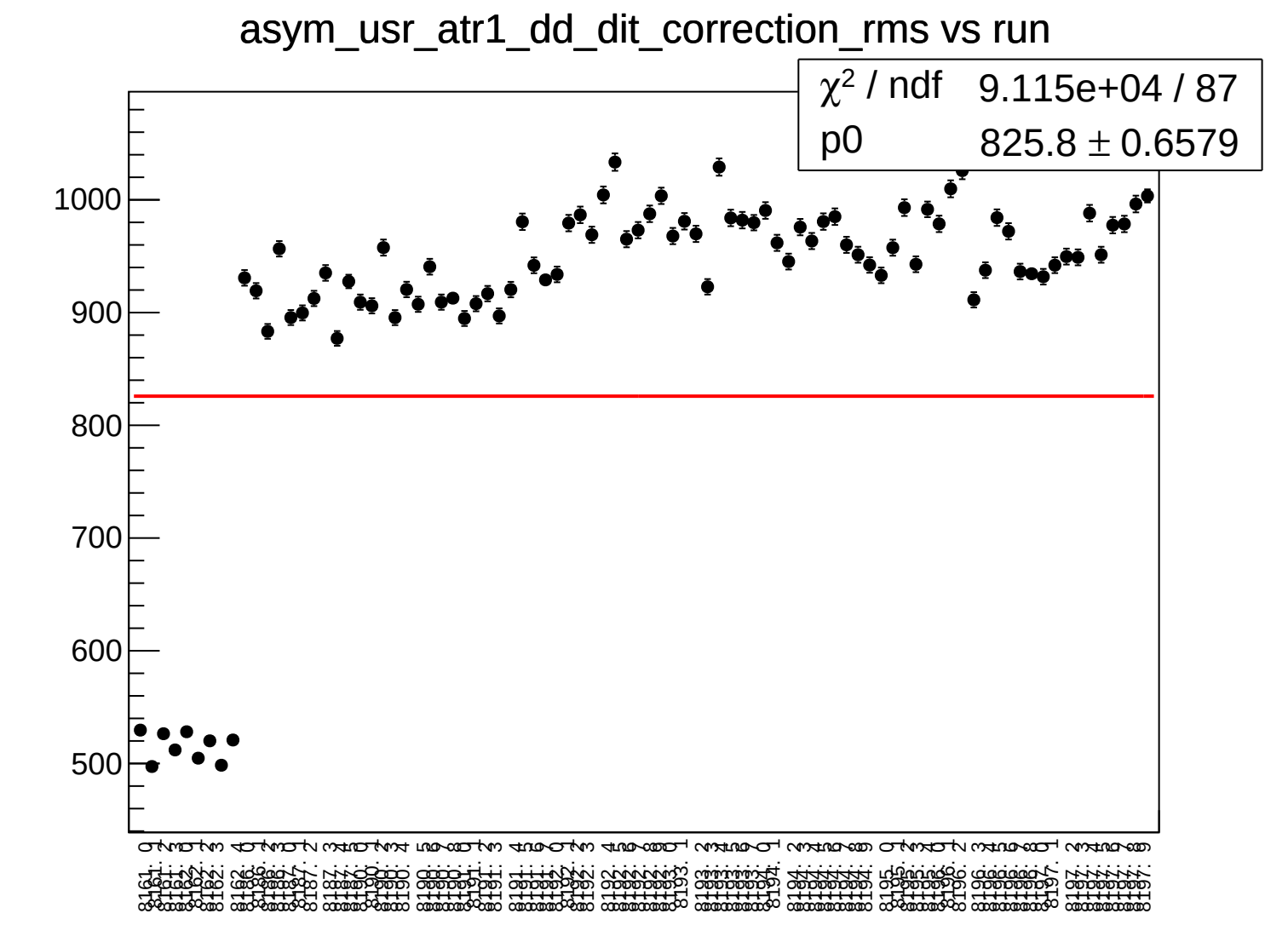

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 67.27 / 87
p0 −662.4 ± 1461
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 12.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

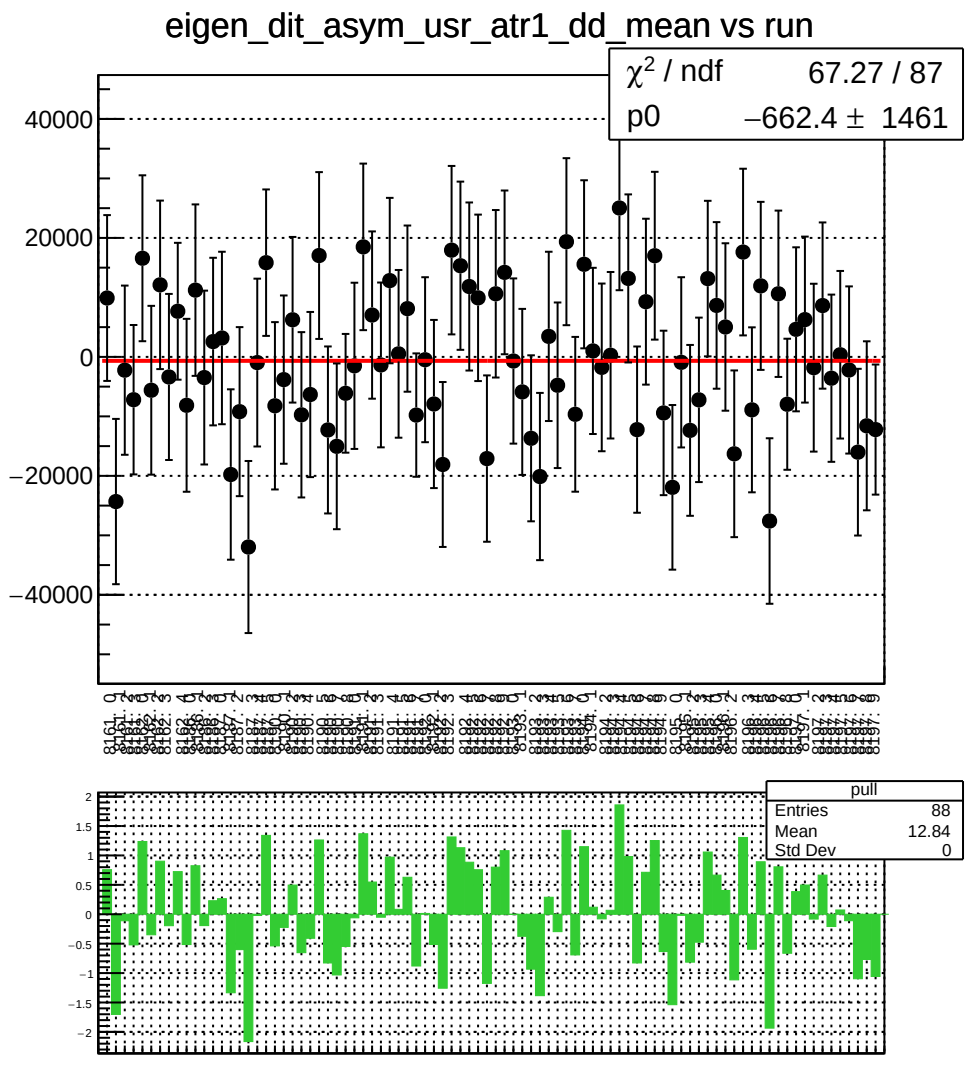

pull1D
Entries 88
Mean 0.007549
Std Dev 0.8743
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

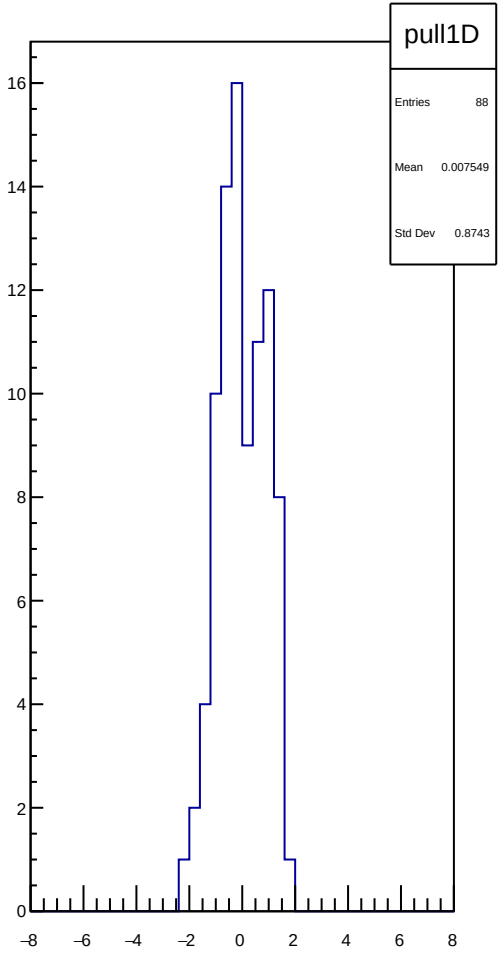

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 246.9 / 87
p0 1334 ± 1.033
1400
1380
1360
1340
1320
1300


asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 85.76 / 87
p0 3598 ± 930.4
pull
Entries 88
Mean 538.9
Std Dev 0

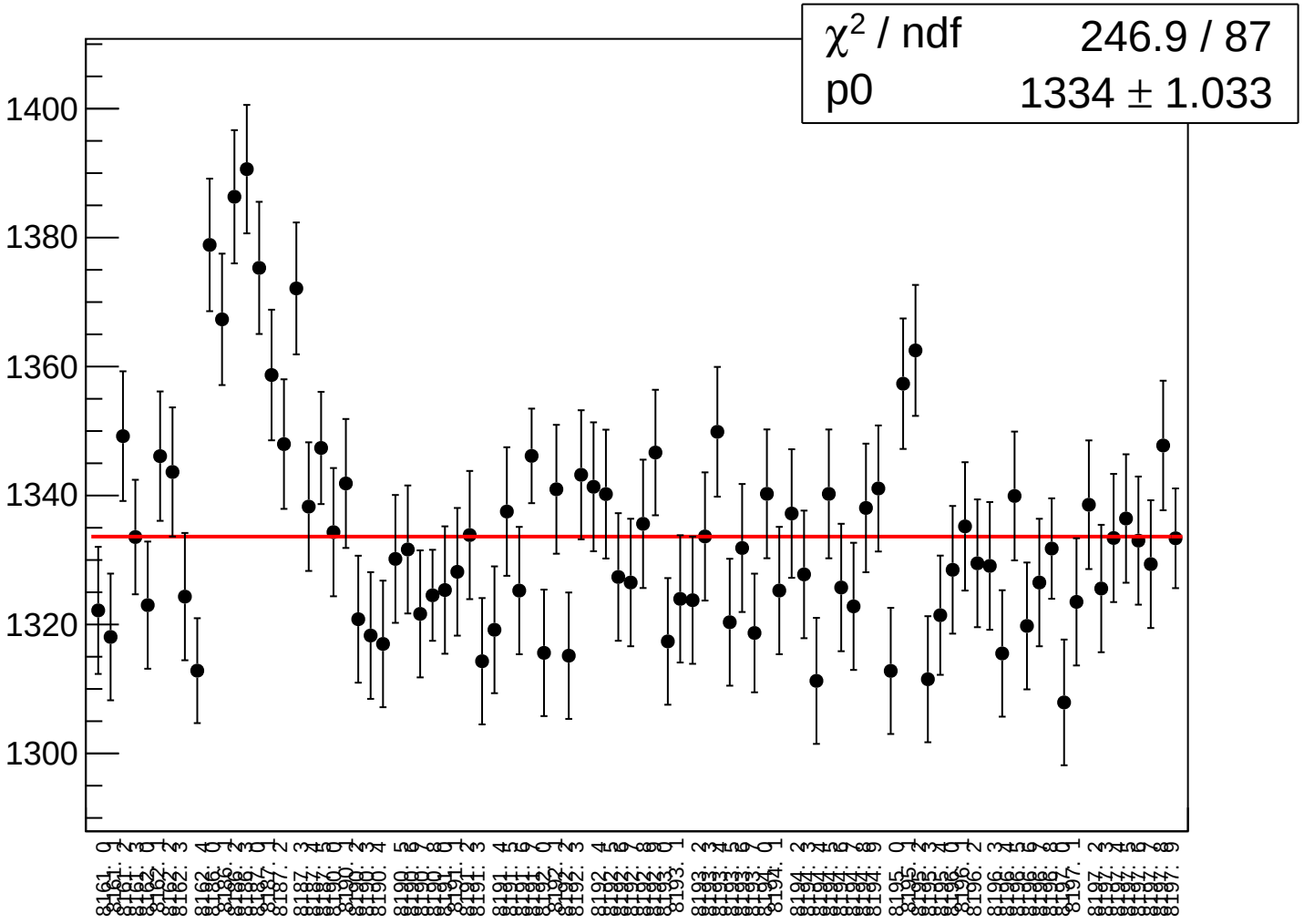

pull1D
Entries 88
Mean −0.009577
Std Dev 0.9872

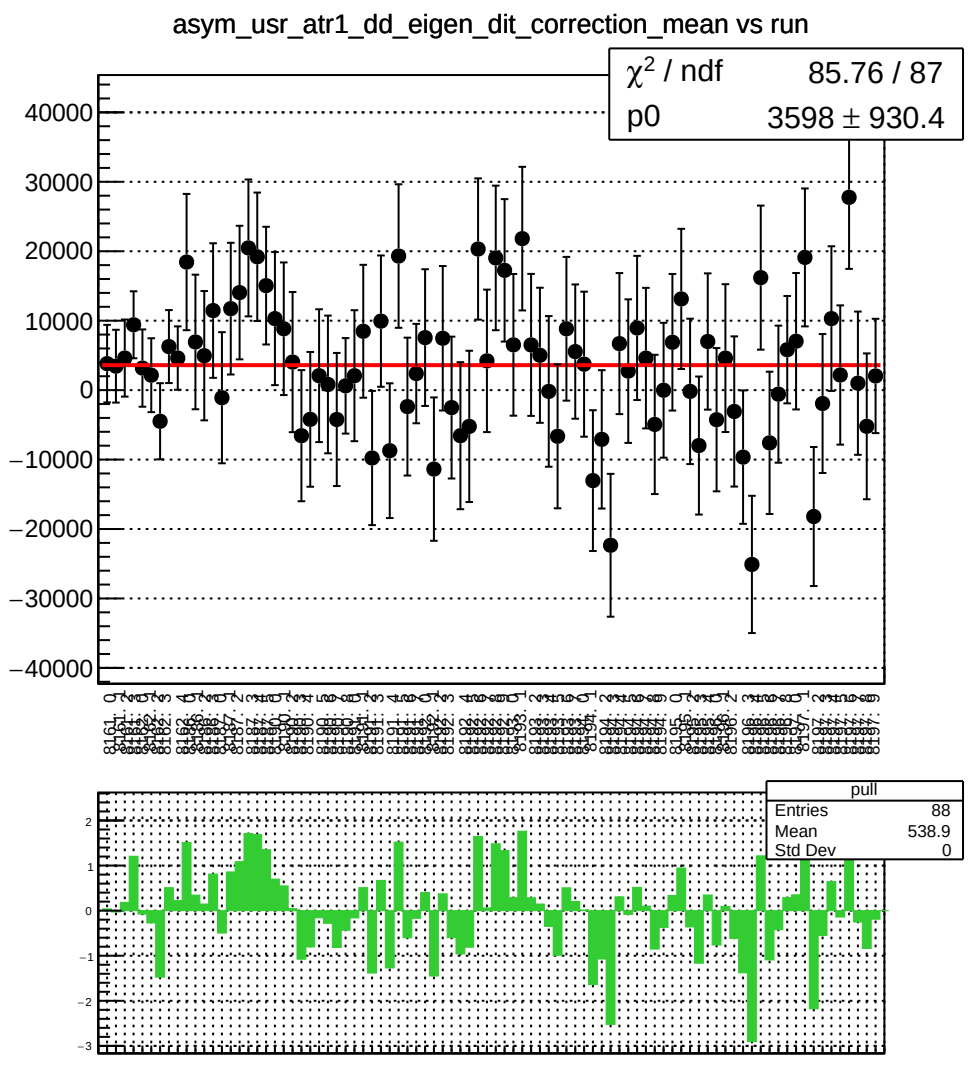

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 9.115e+04 / 87
p0 825.8 ± 0.6579
1000
900
800
700
600
500

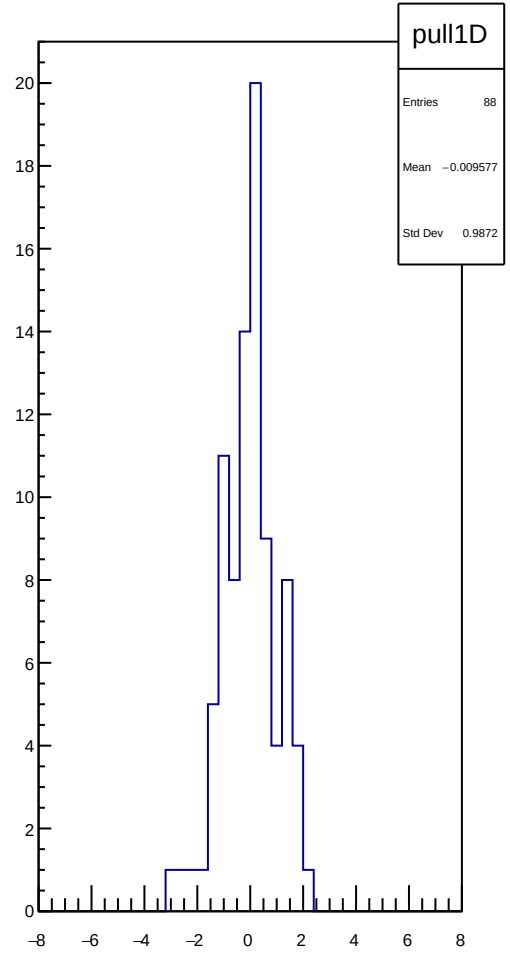

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 67.27 / 87
p0 −662.4 ± 1461
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 12.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

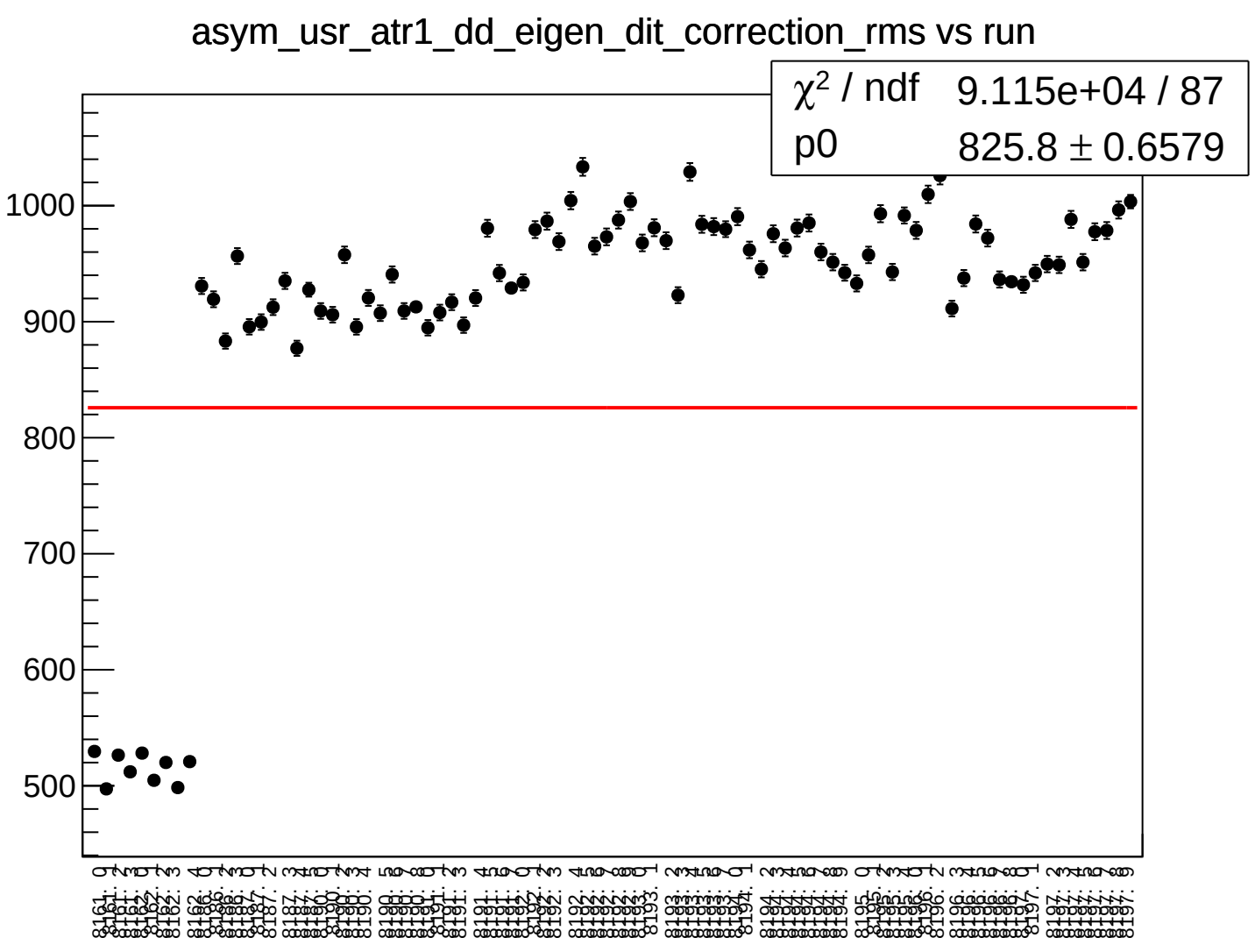

pull1D
Entries 88
Mean 0.007549
Std Dev 0.8743
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

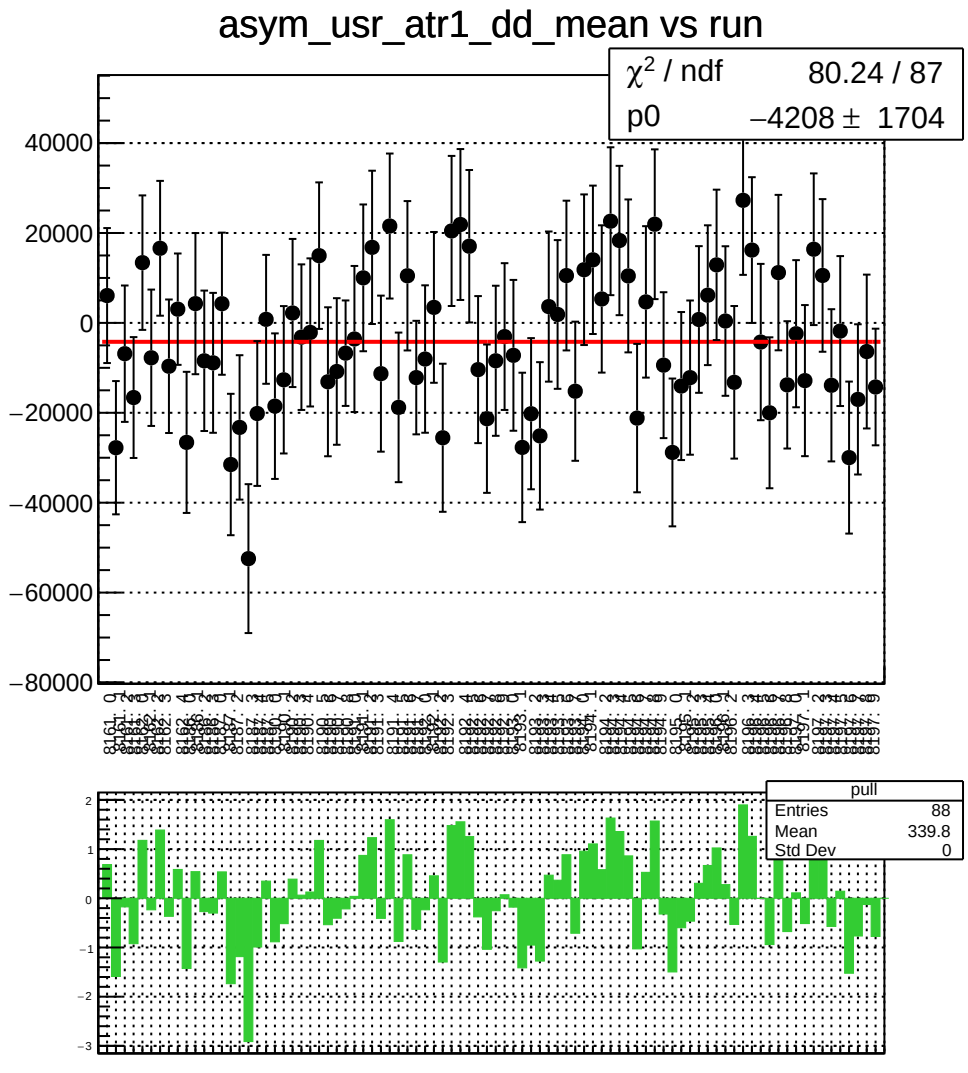
eigen_dit_asym_usr_atr1_dd_rms vs run

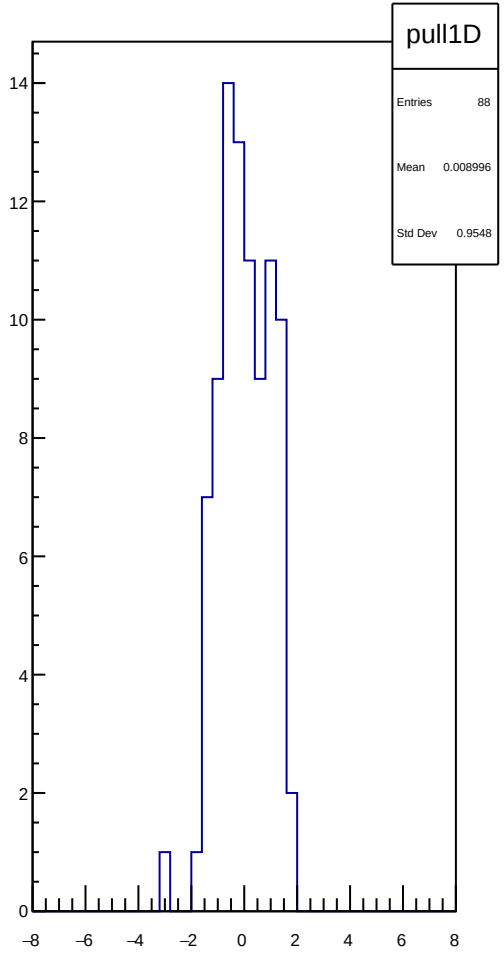


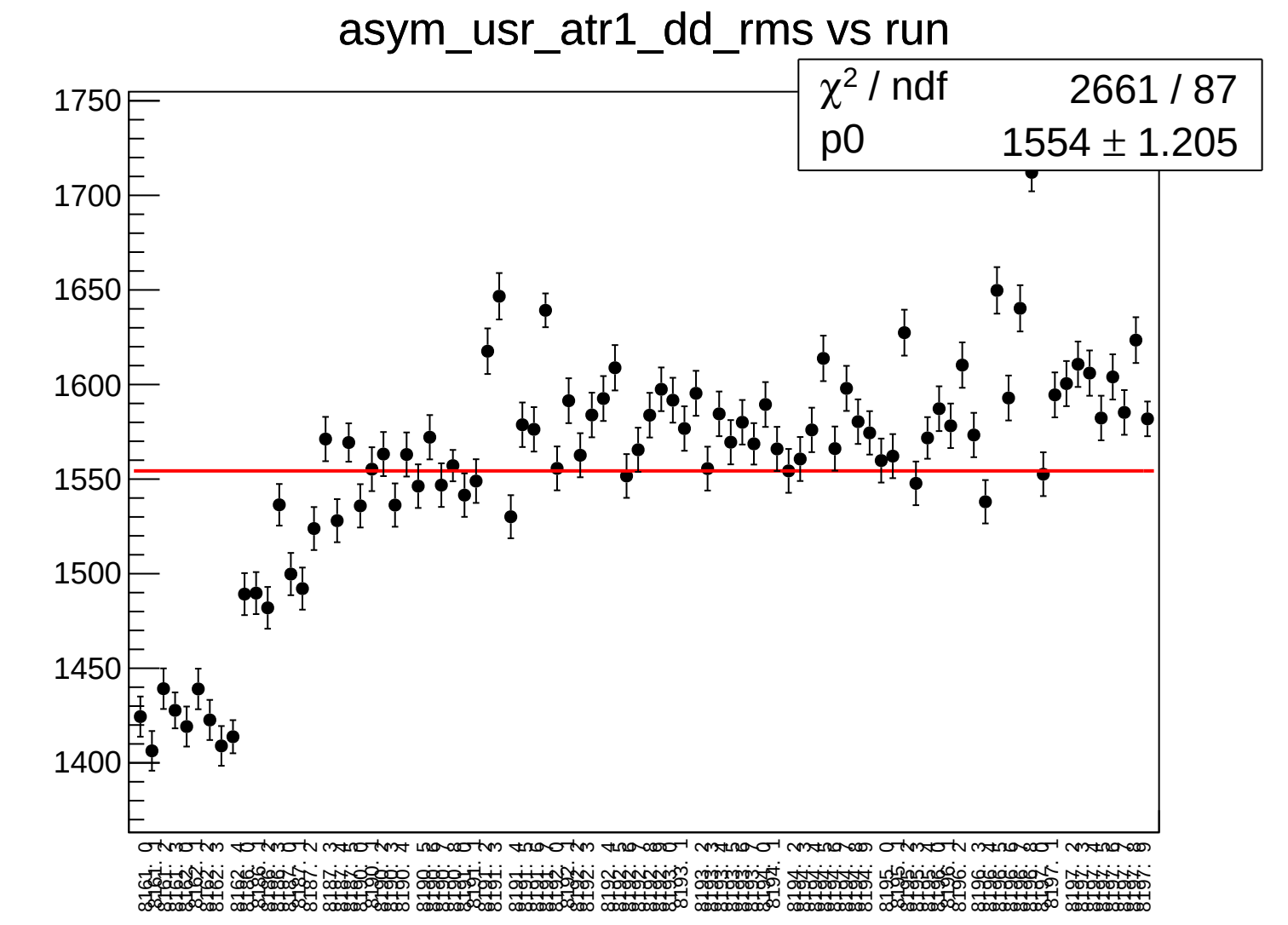

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.76 / 87
p0 3598 ± 930.4
pull
Entries 88
Mean 538.9
Std Dev 0

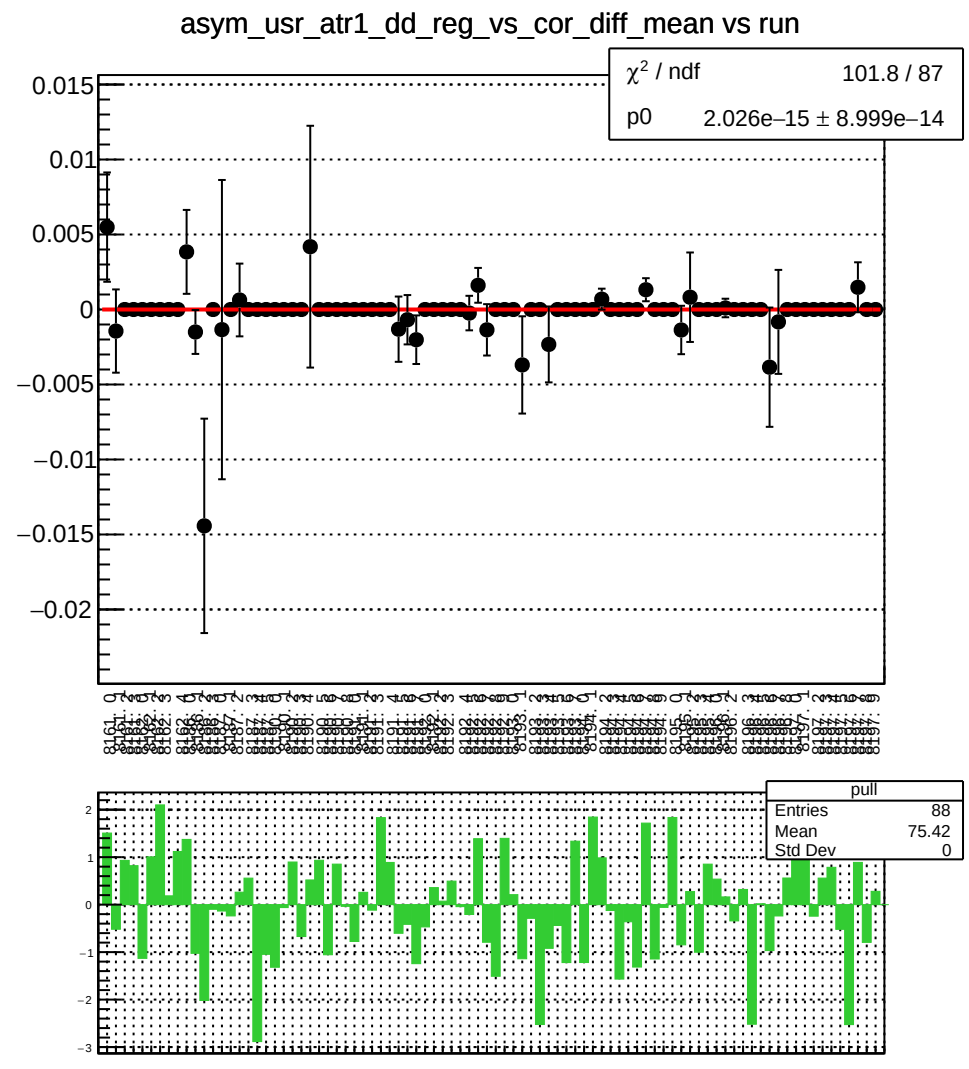

pull1D
Entries 88
Mean −0.009577
Std Dev 0.9872

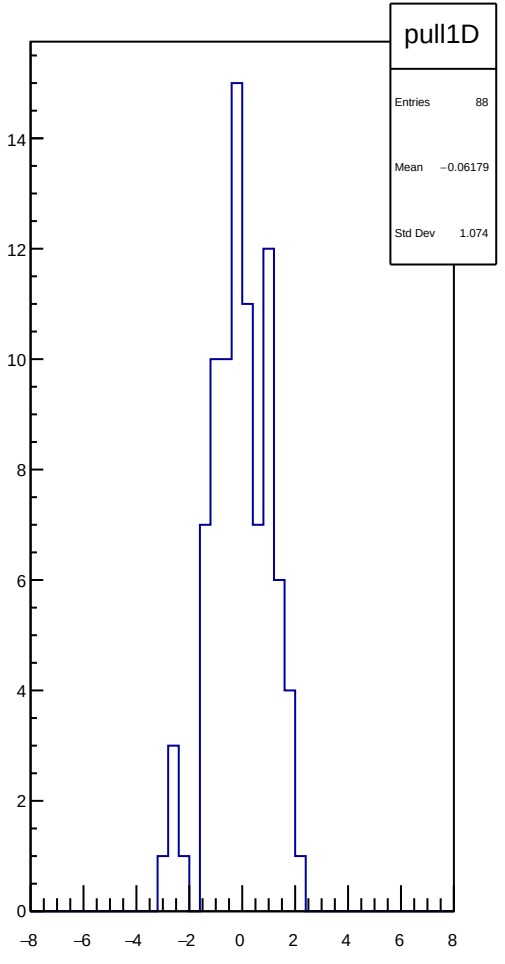

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 9.115e+04 / 87
p0 825.8 ± 0.6579
1000
900
800
700
600
500

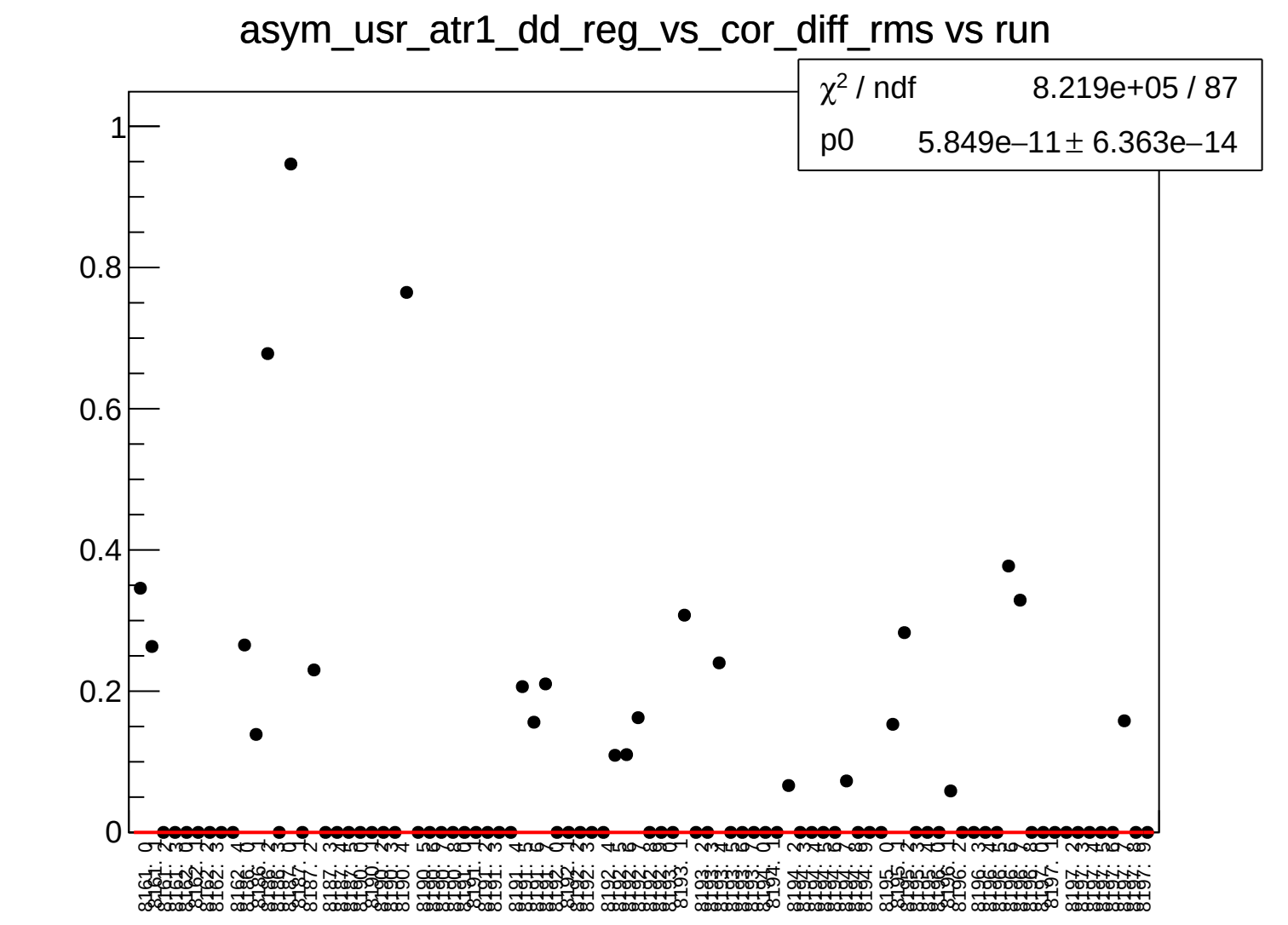

asym_usr_atr1_dd_mean vs run
χ² / ndf 80.24 / 87
p0 −4208 ± 1704
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 339.8
Std Dev 0
2
1
0
−1
−2
−3

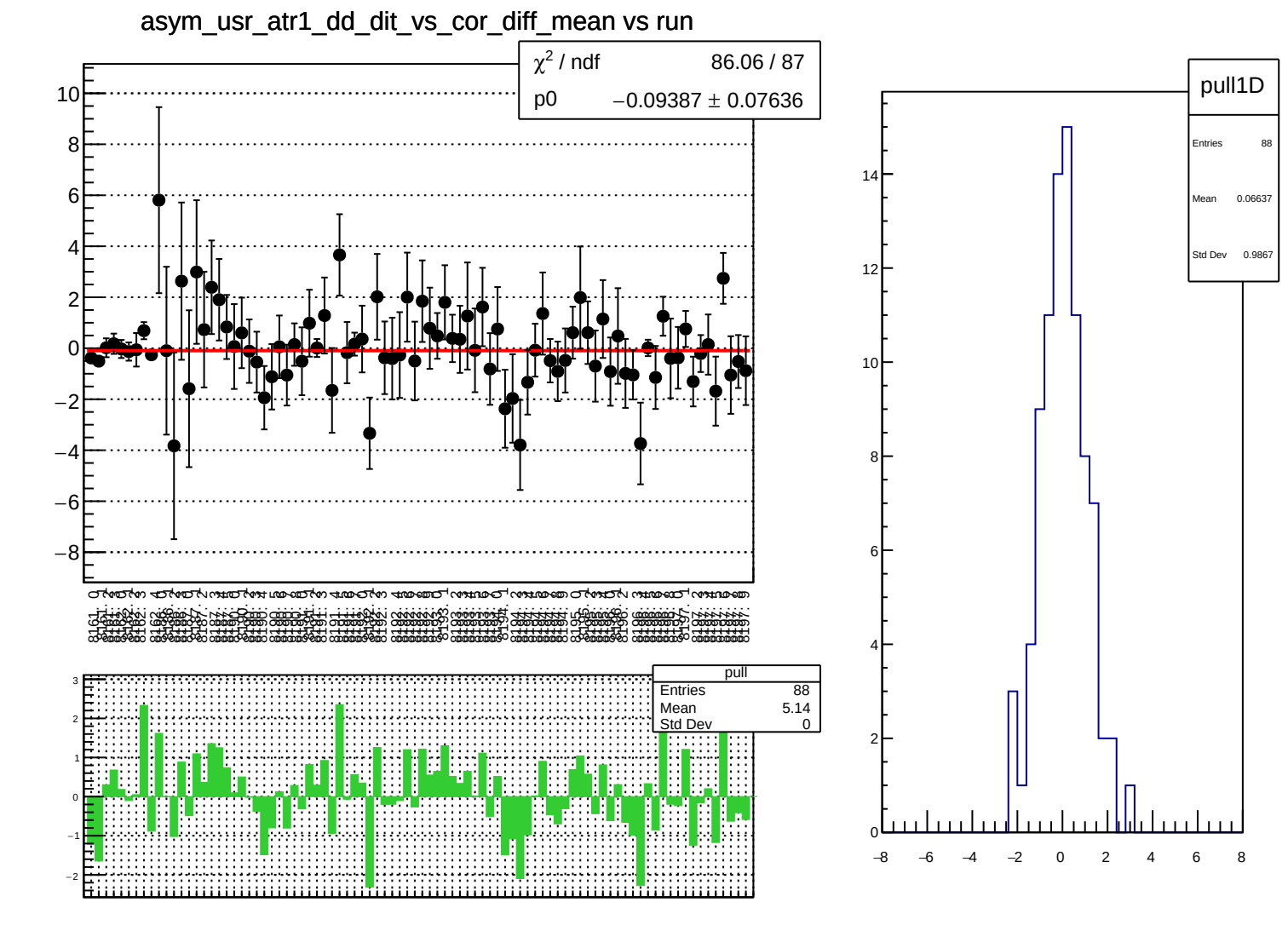

pull1D
Entries 88
Mean 0.008996
Std Dev 0.9548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

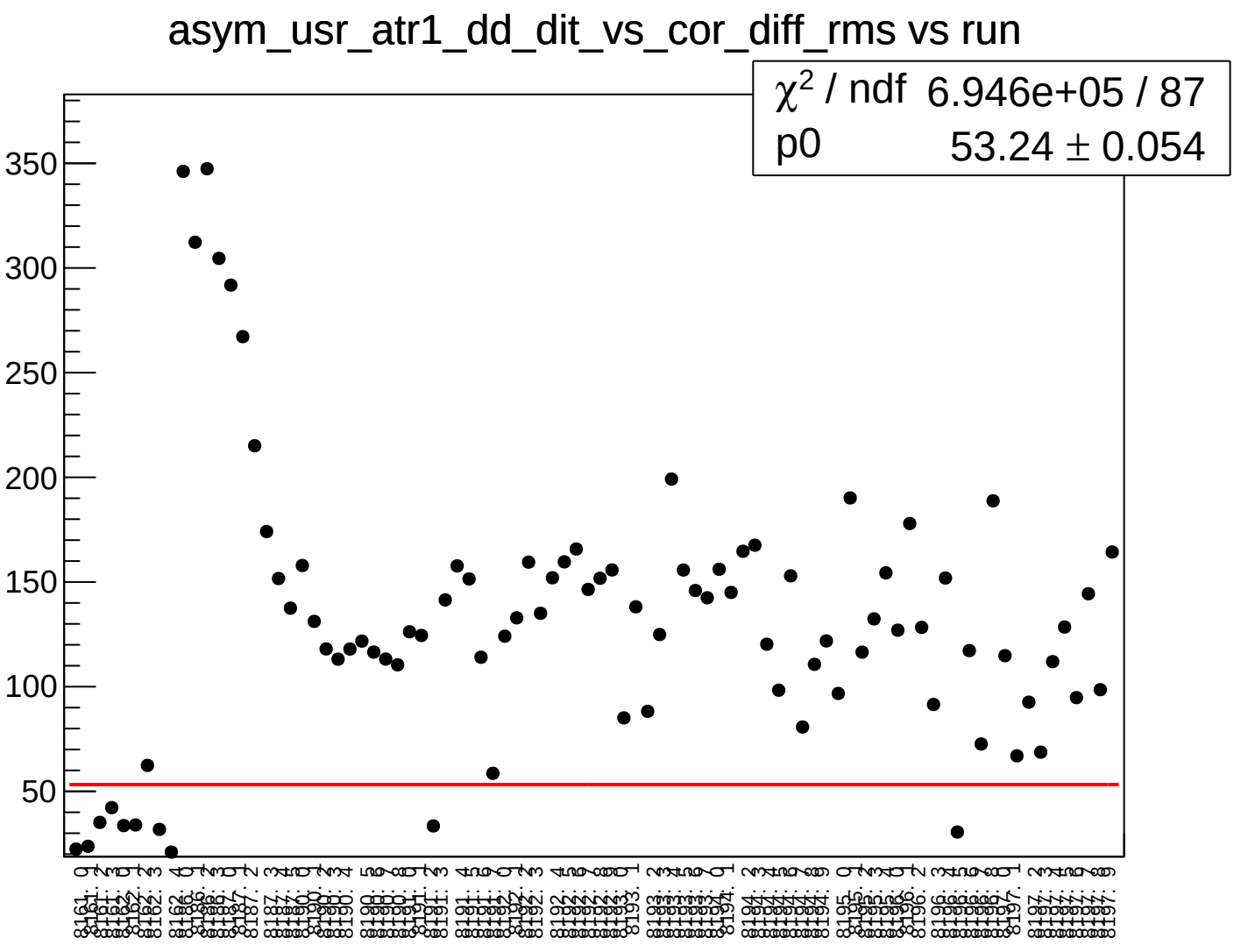

asym_usr_atr1_dd_rms vs run
χ² / ndf 2661 / 87
p0 1554 ± 1.205
1750
1700
1650
1600
1550
1500
1450
1400

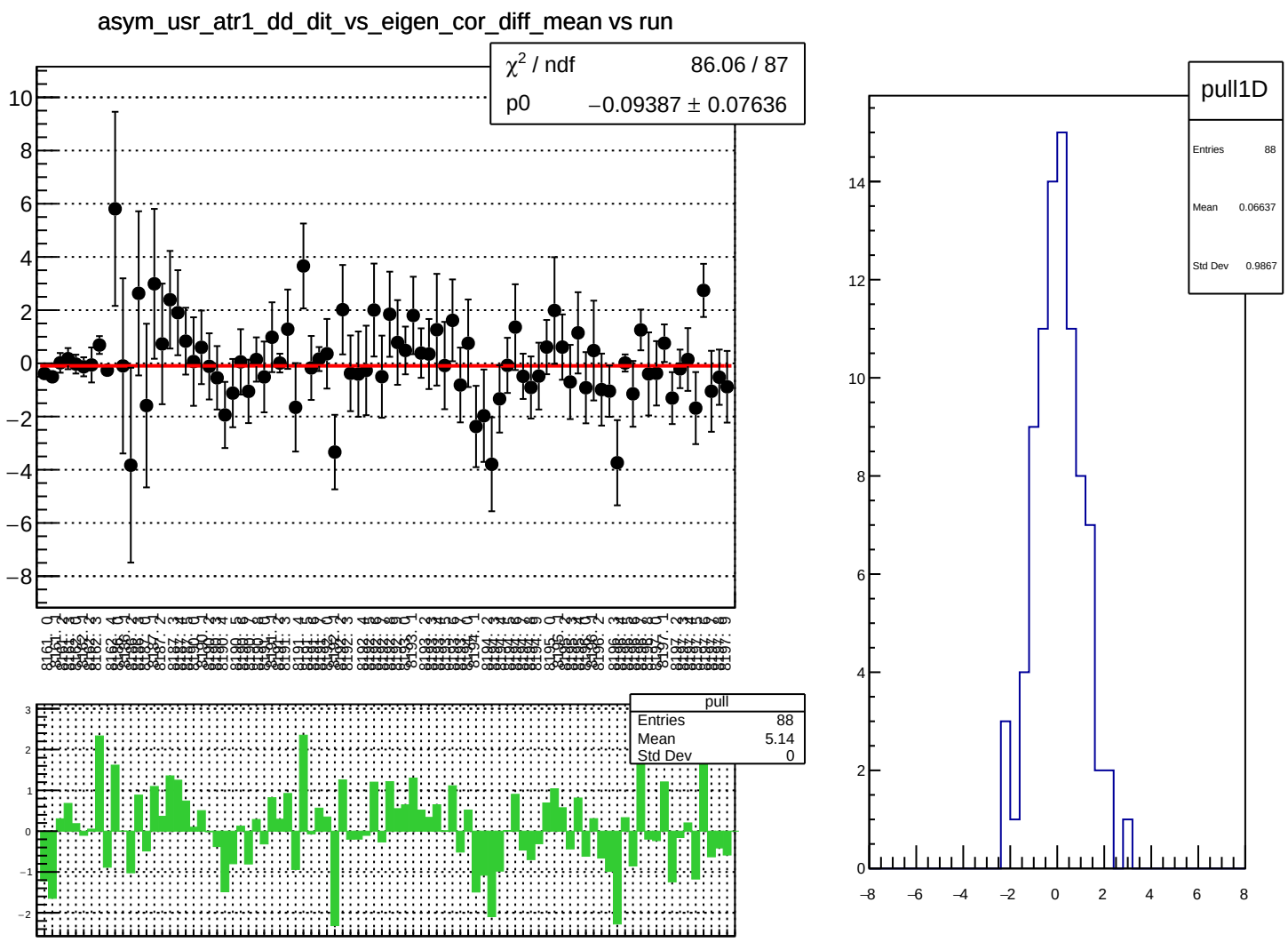

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 87
p0 2.026e−15 ± 8.999e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean 75.42
Std Dev 0
2
1
0
−1
−2
−3

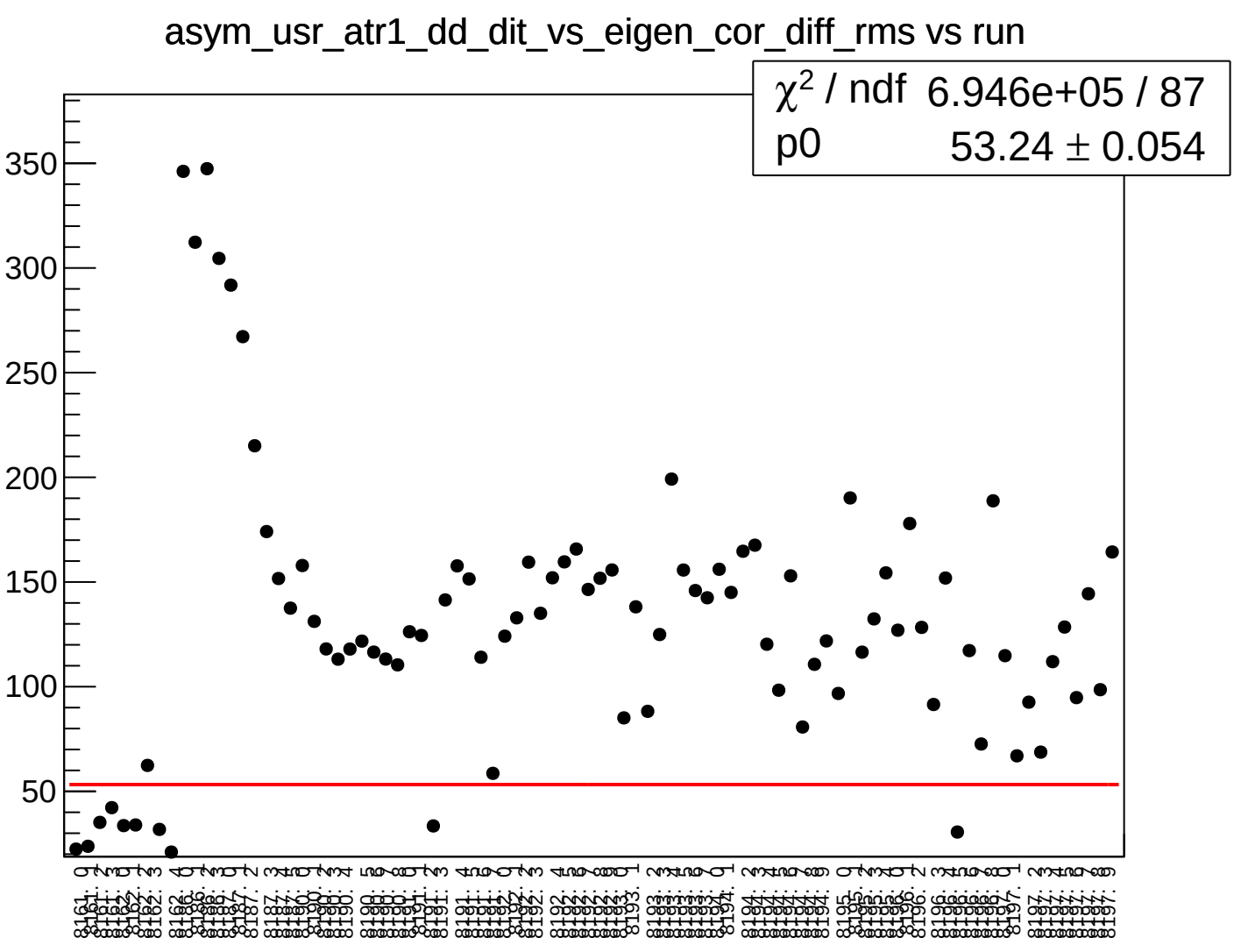

pull1D
Entries 88
Mean −0.06179
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

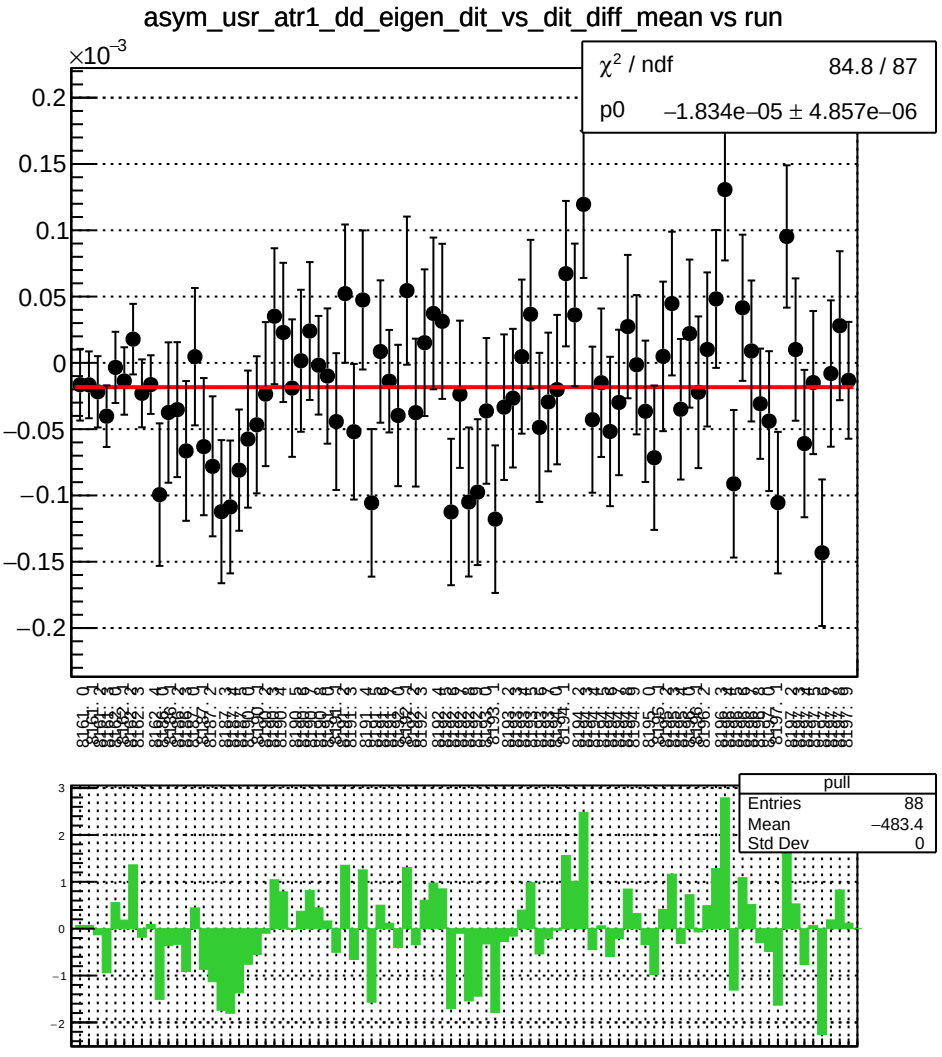

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.219e+05 / 87
p0 5.849e−11 ± 6.363e−14
1
0.8
0.6
0.4
0.2
0

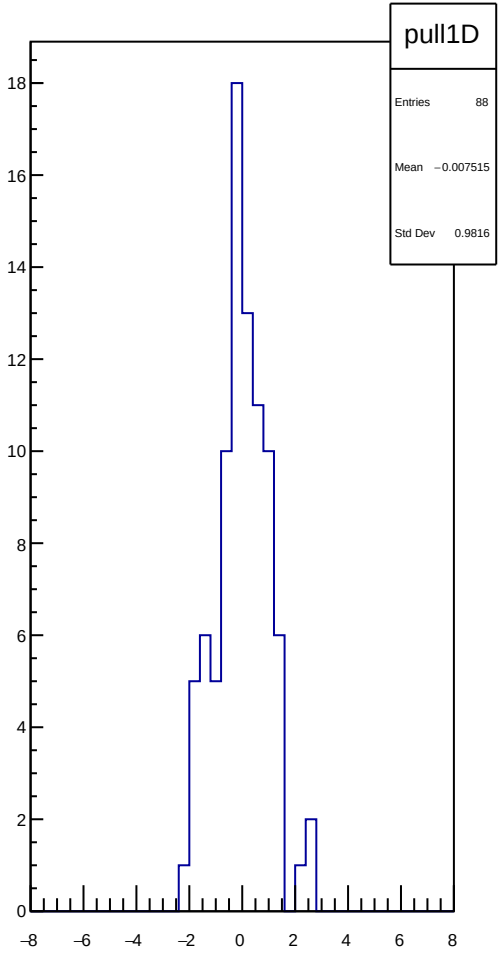

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.06 / 87
p0 −0.09387 ± 0.07636
pull
Entries 88
Mean 5.14
Std Dev 0
pull1D
Entries 88
Mean 0.06637
Std Dev 0.9867

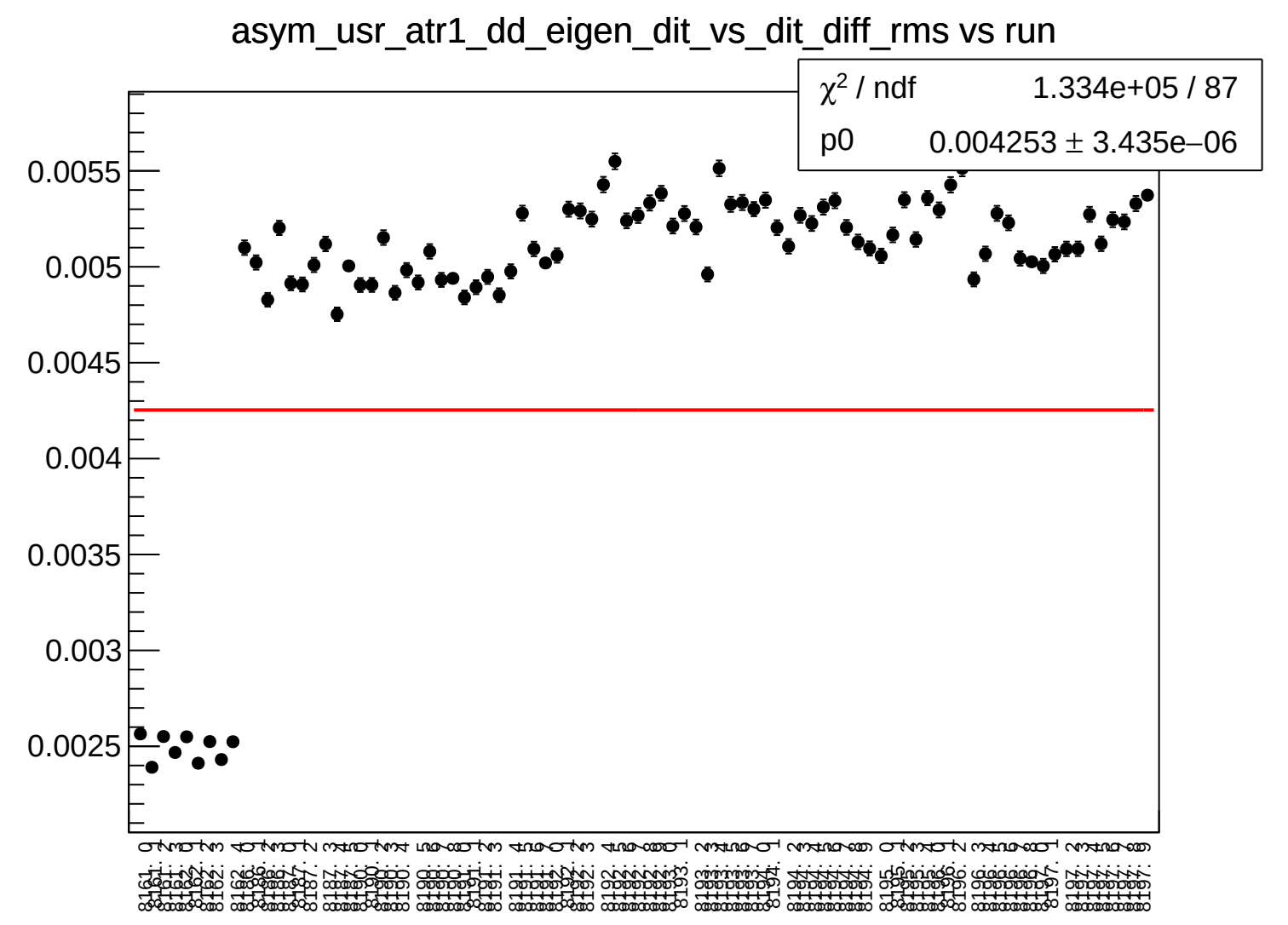

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.946e+05 / 87
p0 53.24 ± 0.054
350
300
250
200
150
100
50

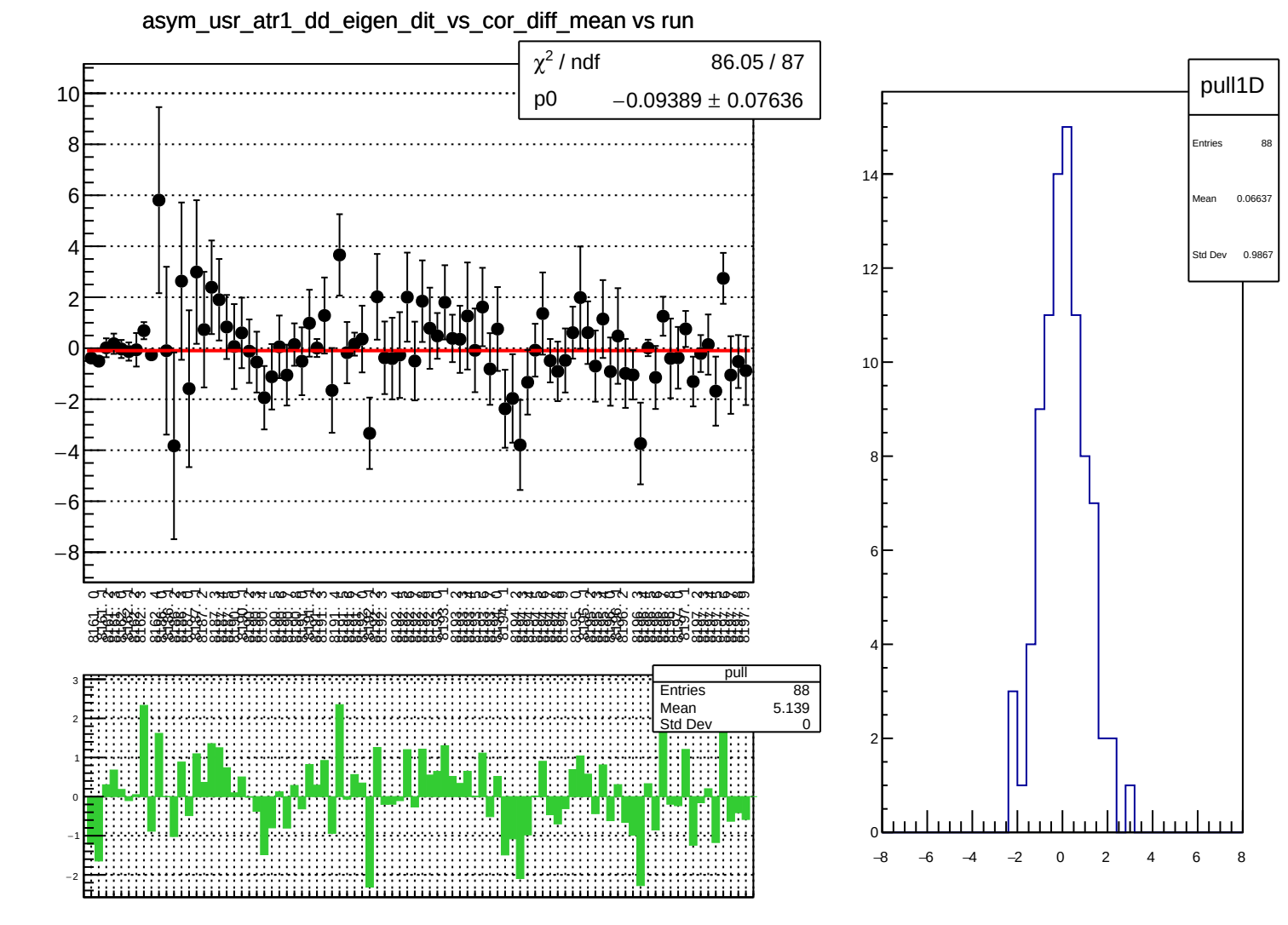

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.06 / 87
p0 −0.09387 ± 0.07636
pull
Entries 88
Mean 5.14
Std Dev 0
pull1D
Entries 88
Mean 0.06637
Std Dev 0.9867

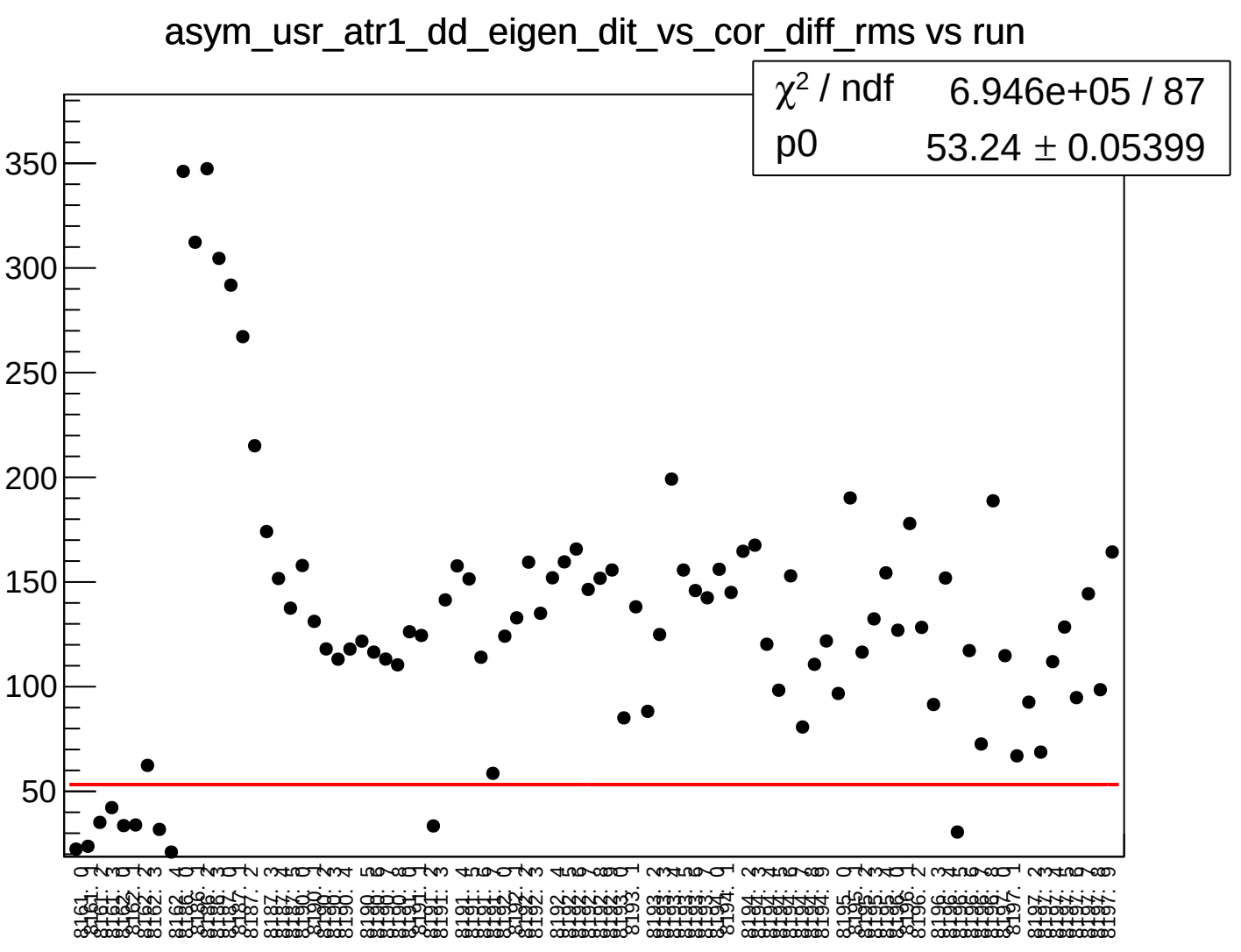

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.946e+05 / 87
p0 53.24 ± 0.054
350
300
250
200
150
100
50

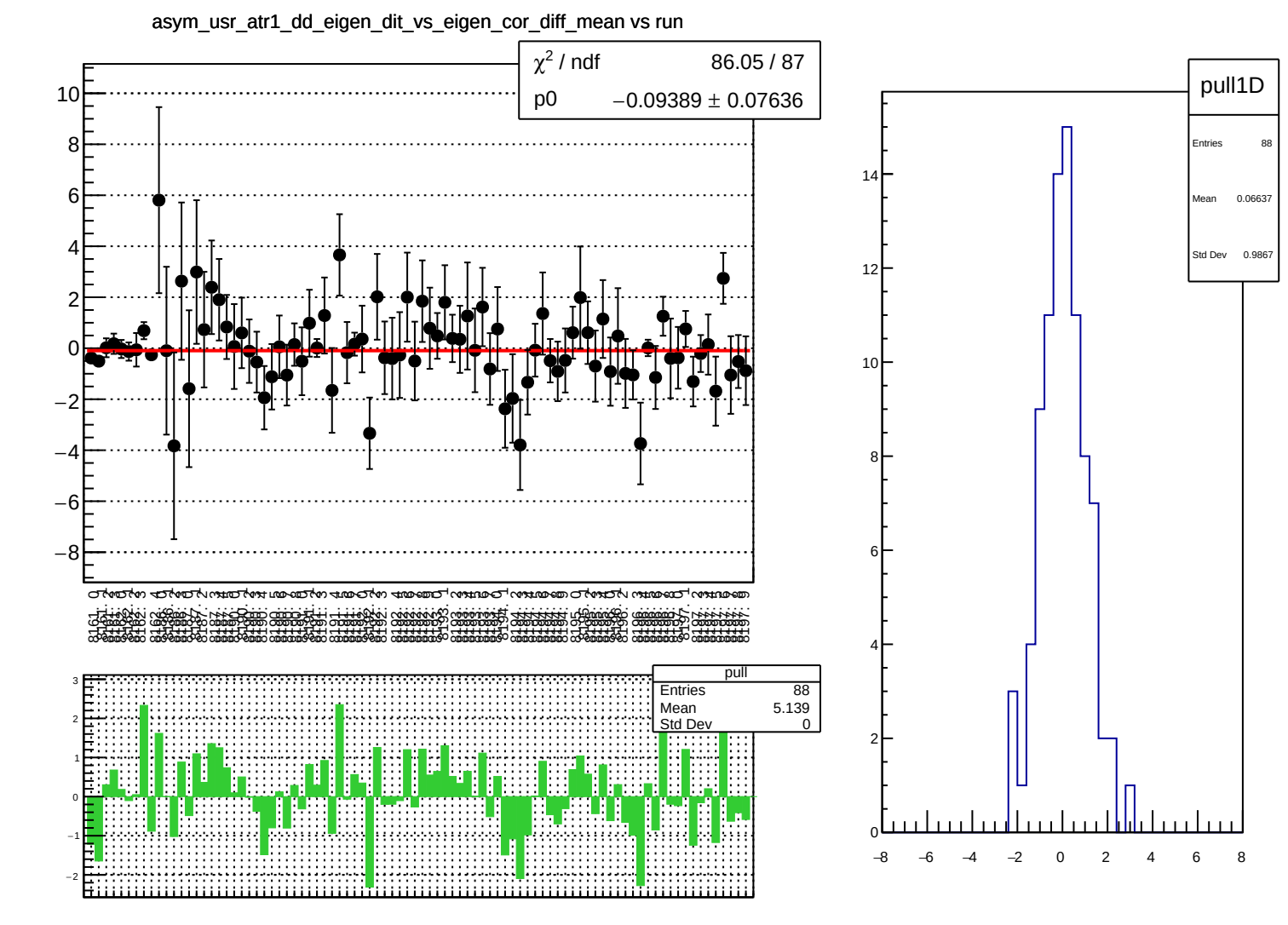

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.8 / 87
p0 −1.834e−05 ± 4.857e−06
pull
Entries 88
Mean −483.4
Std Dev 0

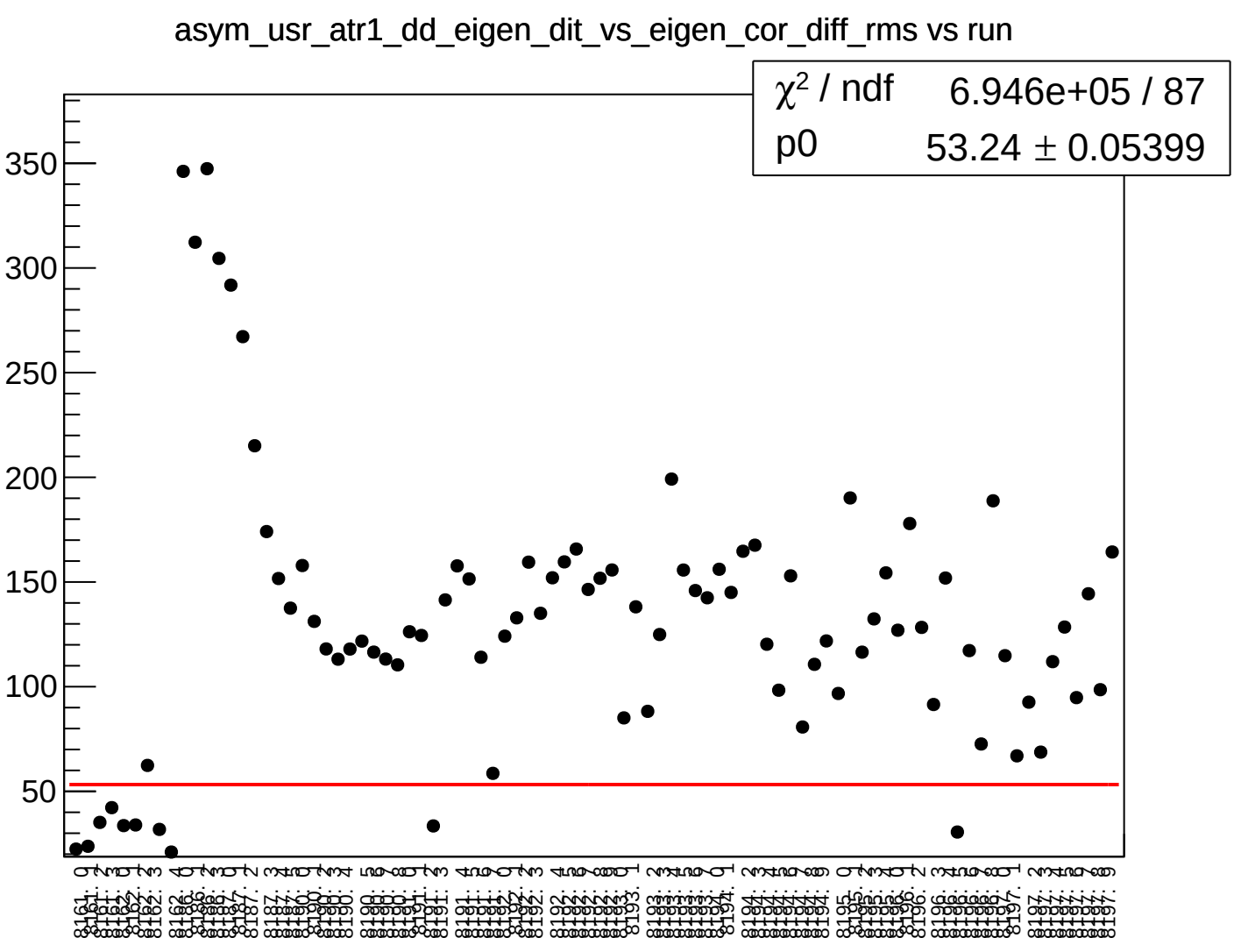

pull1D
Entries 88
Mean −0.007515
Std Dev 0.9816

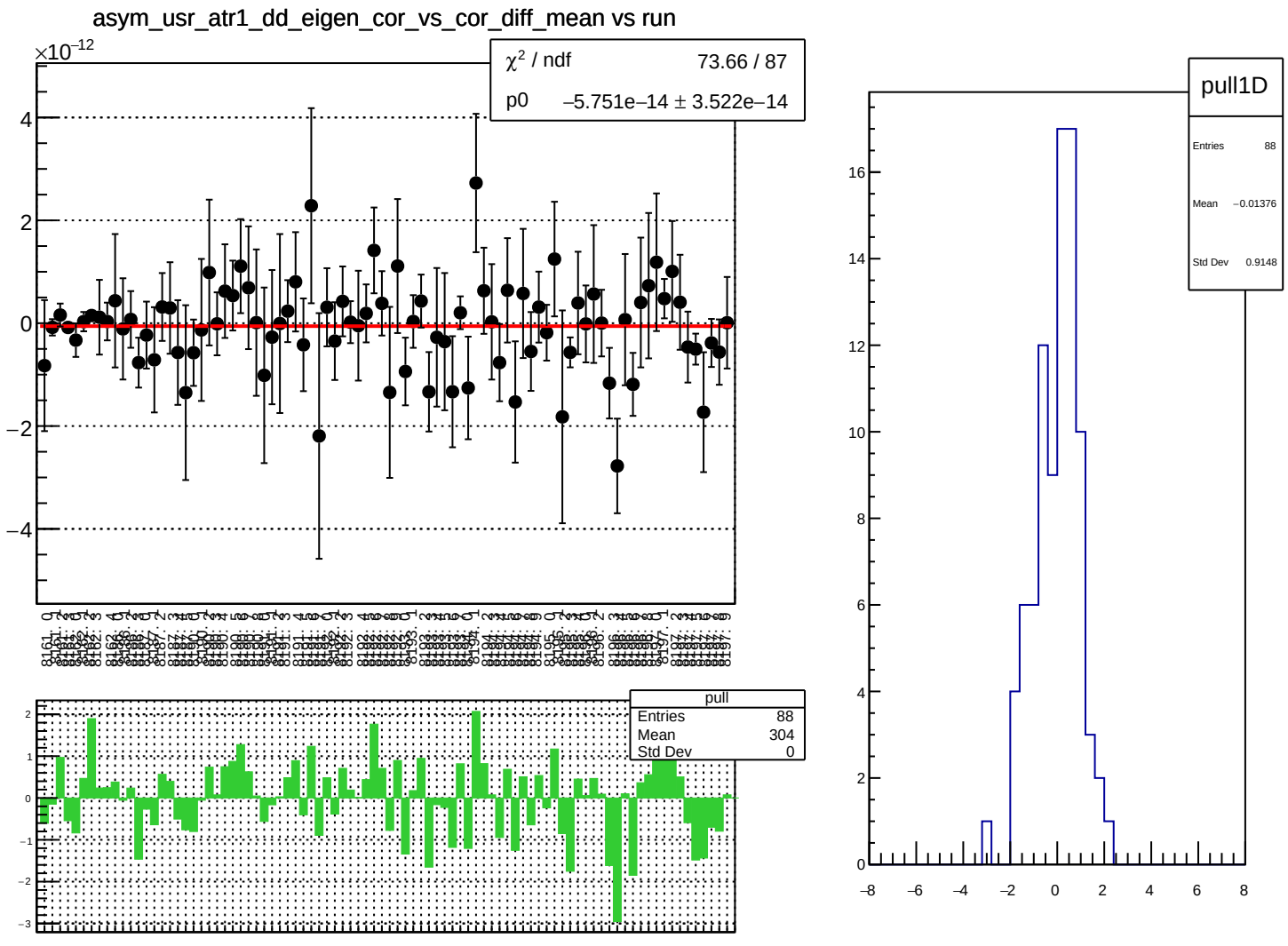

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.334e+05 / 87
p0 0.004253 ± 3.435e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

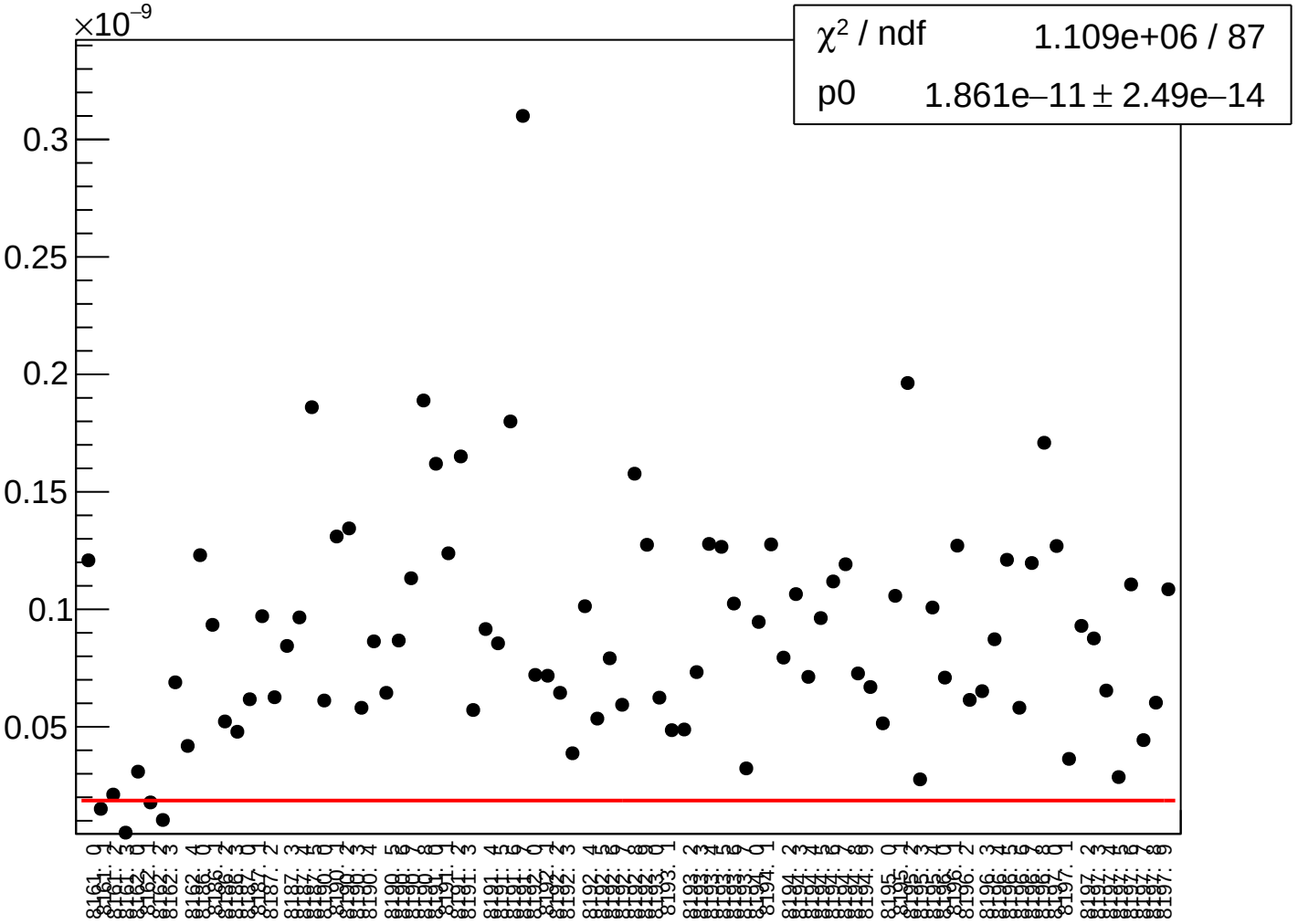

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.05 / 87
p0 −0.09389 ± 0.07636
pull
Entries 88
Mean 5.139
Std Dev 0
pull1D
Entries 88
Mean 0.06637
Std Dev 0.9867

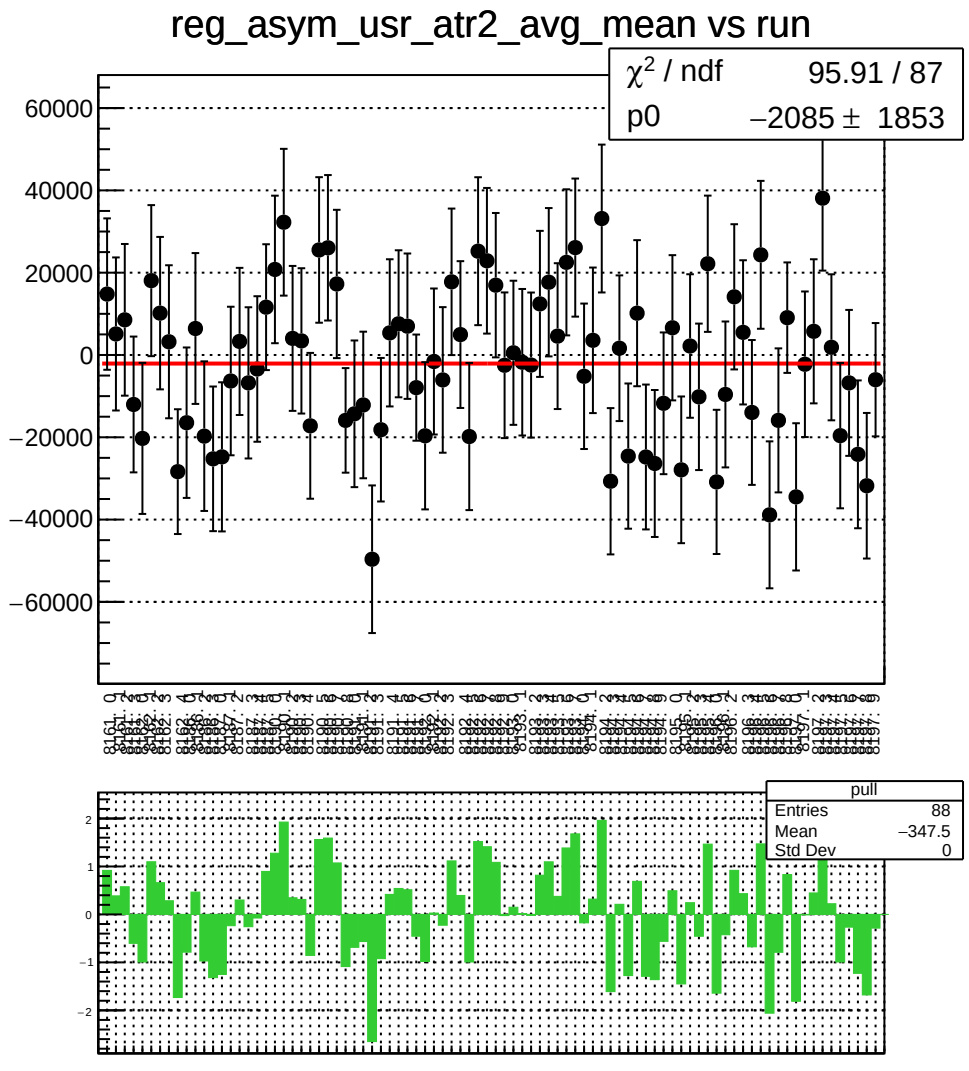

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.946e+05 / 87
p0 53.24 ± 0.05399
350
300
250
200
150
100
50

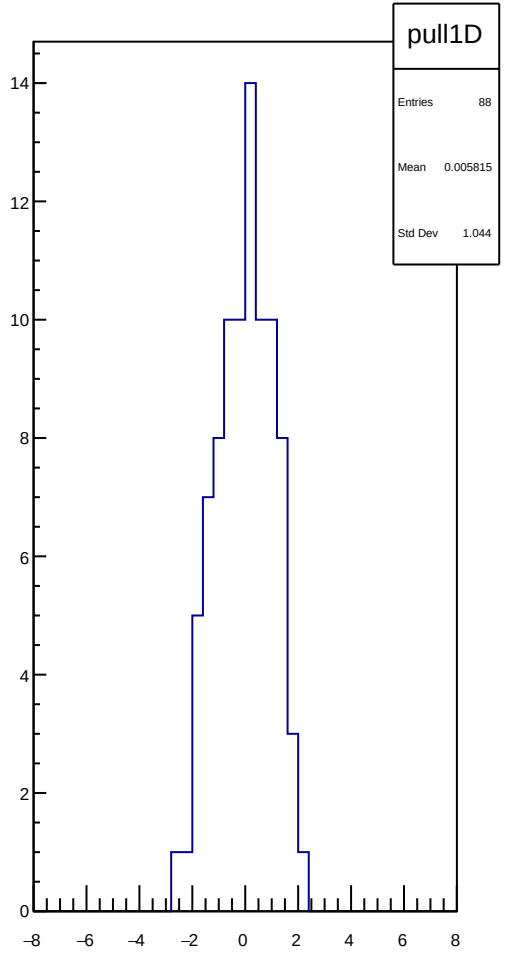

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.05 / 87
p0 −0.09389 ± 0.07636
pull
Entries 88
Mean 5.139
Std Dev 0
pull1D
Entries 88
Mean 0.06637
Std Dev 0.9867

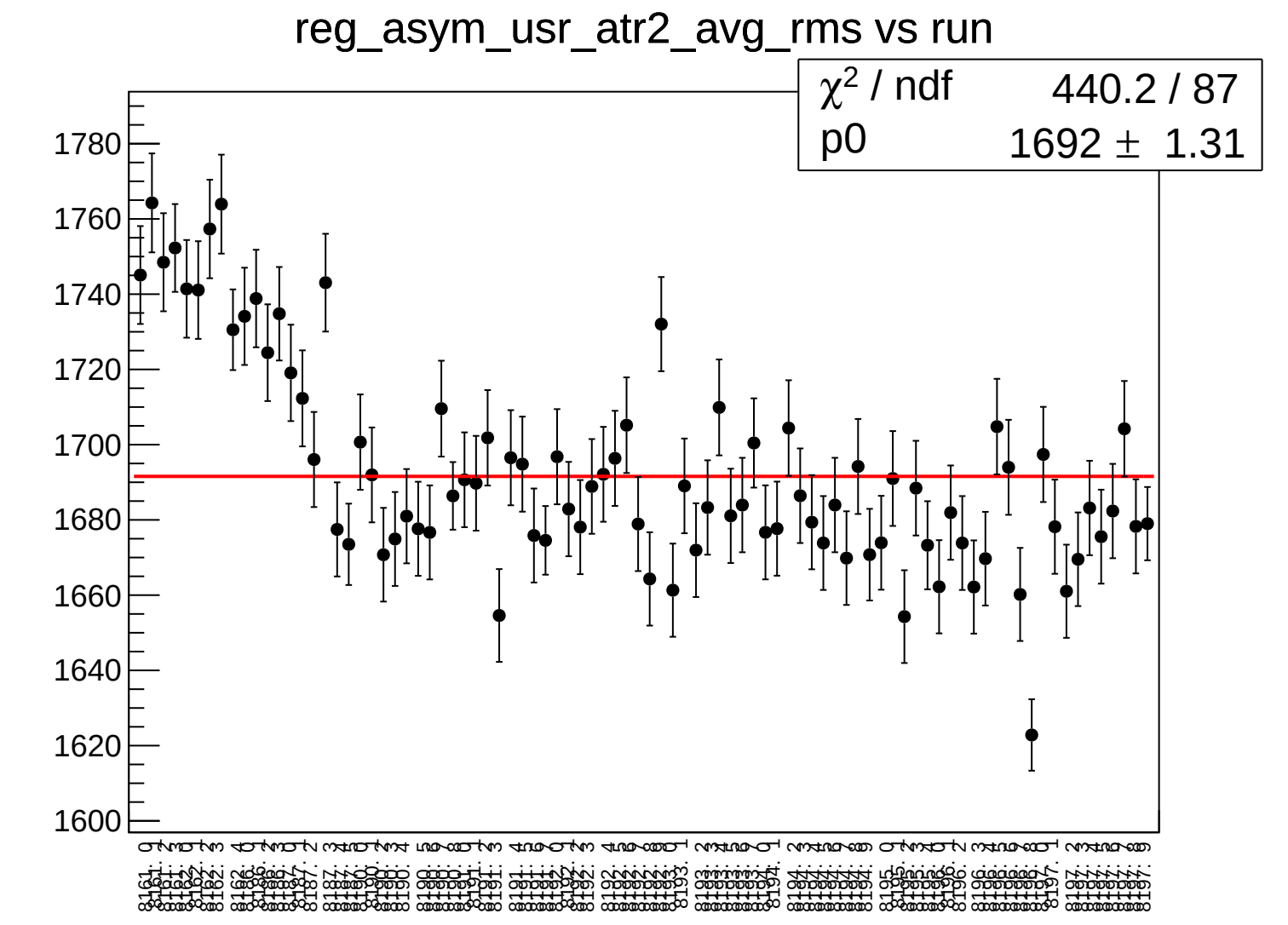

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.946e+05 / 87
p0 53.24 ± 0.05399
350
300
250
200
150
100
50

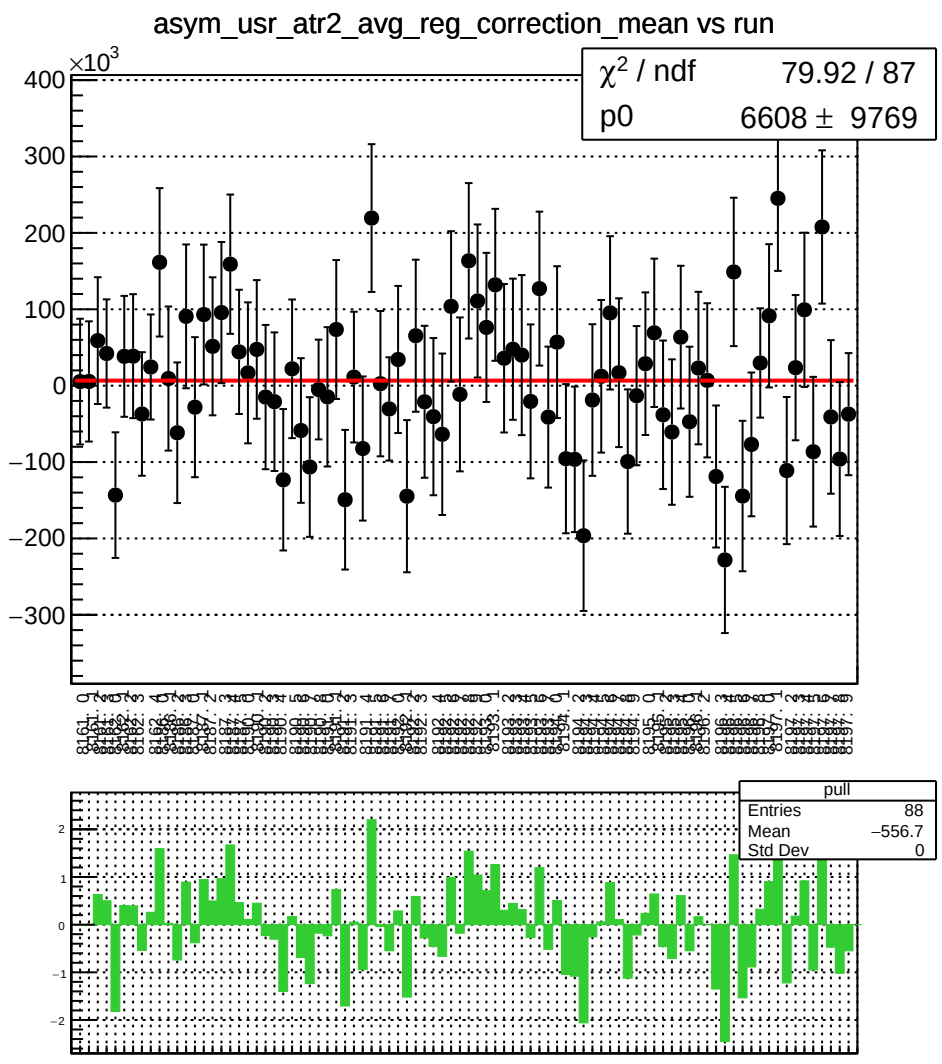

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.66 / 87
p0 −5.751e−14 ± 3.522e−14
pull
Entries 88
Mean 304
Std Dev 0
pull1D
Entries 88
Mean −0.01376
Std Dev 0.9148

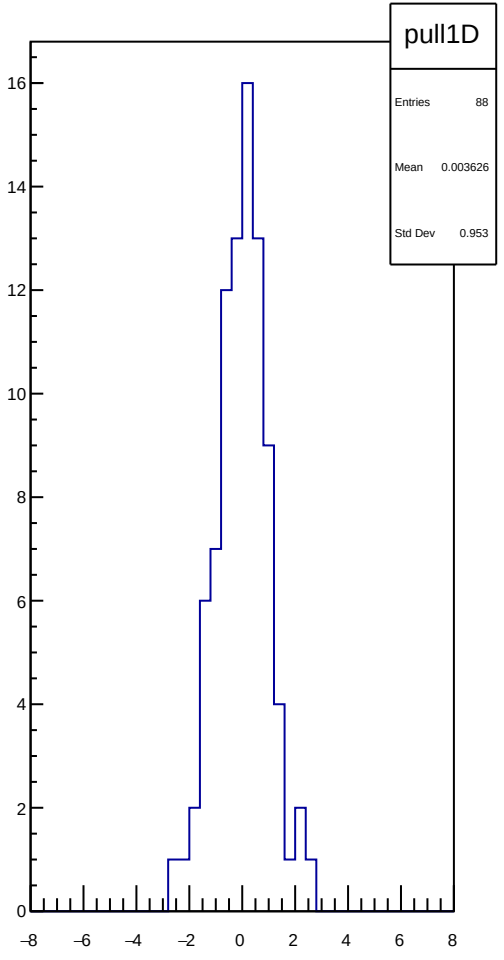

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.109e+06 / 87
p0 1.861e−11 ± 2.49e−14
0.3
0.25
0.2
0.15
0.1
0.05

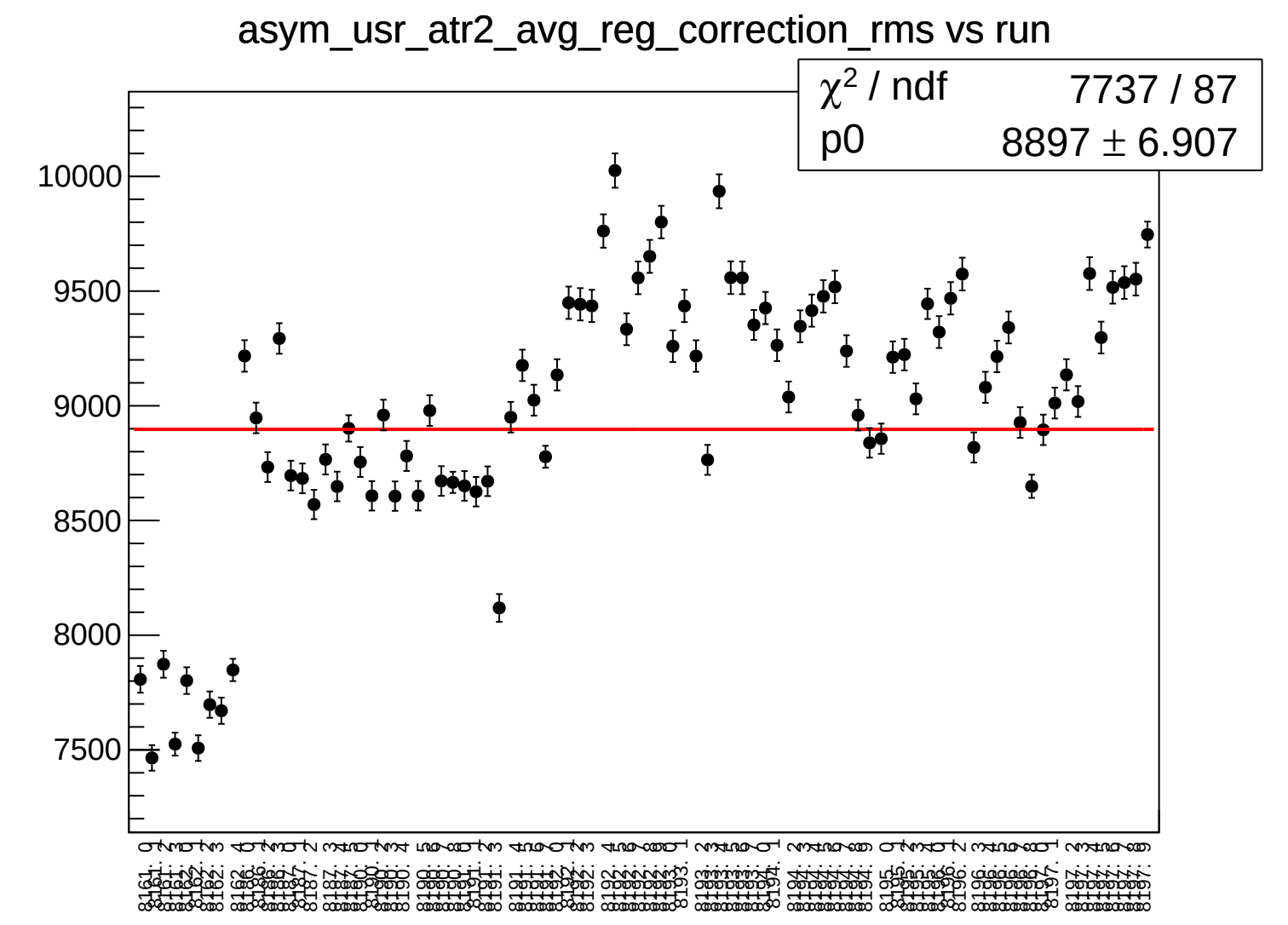

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.91 / 87
p0 −2085 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −347.5
Std Dev 0
2
1
0
−1
−2

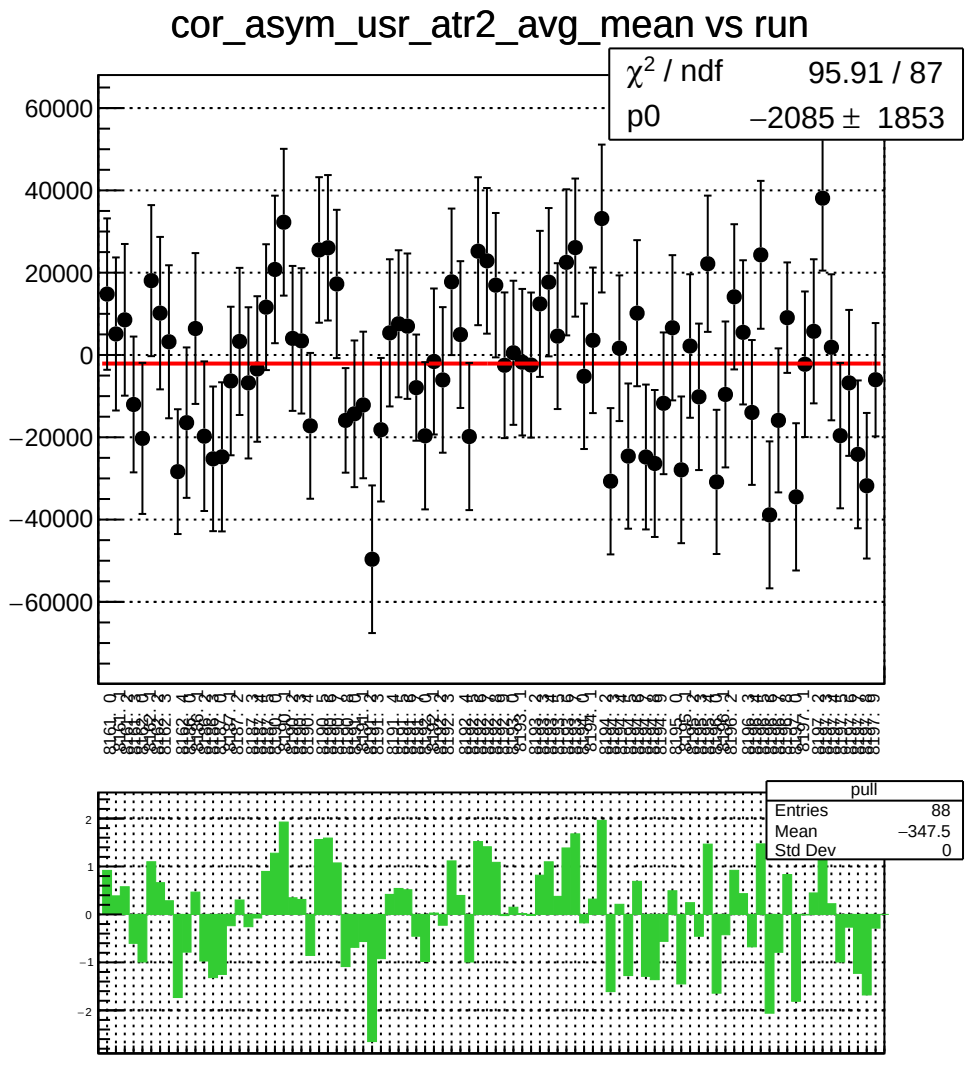

pull1D
Entries 88
Mean 0.005815
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

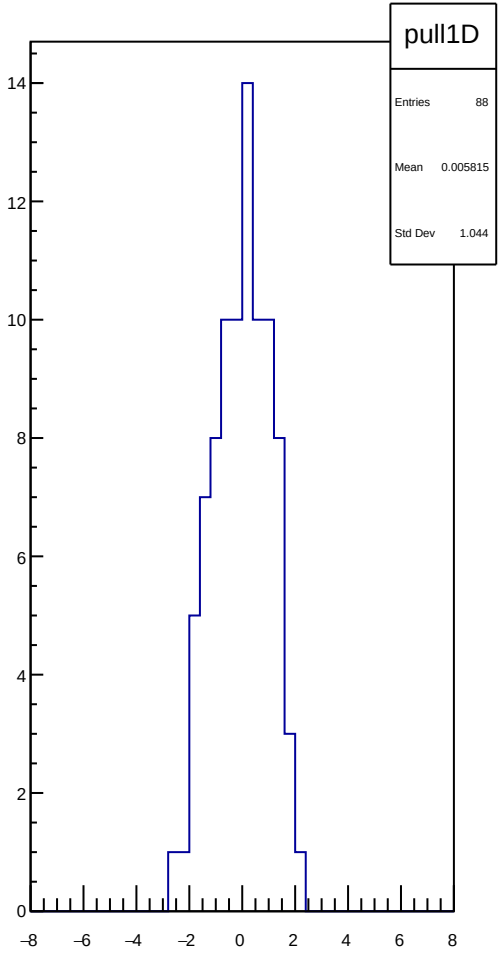

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 440.2 / 87
p0 1692 ± 1.31
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600

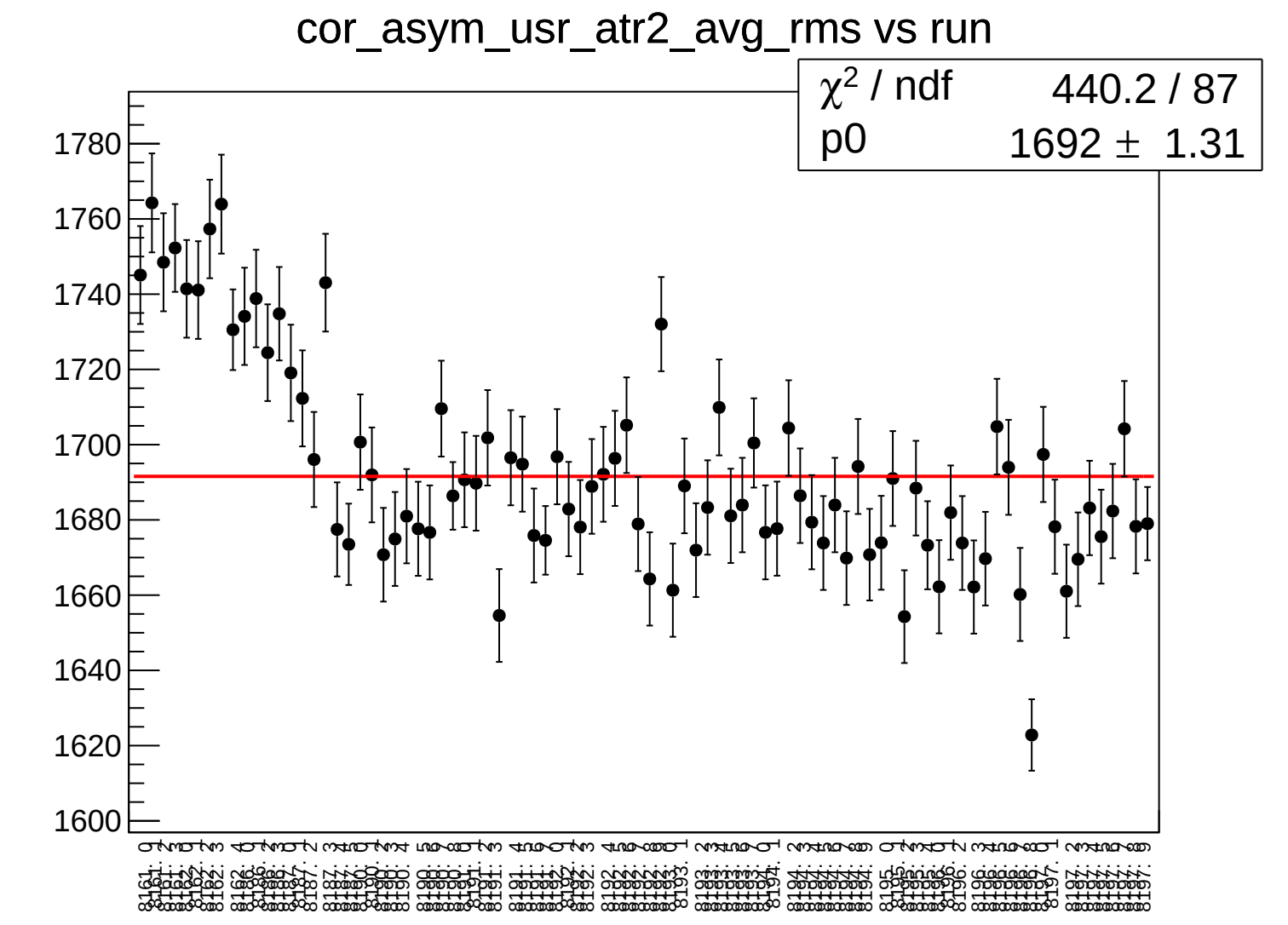

asym_usr_atr2_avg_reg_correction_mean vs run
χ² / ndf 79.92 / 87
p0 6608 ± 9769
×10³
pull
Entries 88
Mean −556.7
Std Dev 0

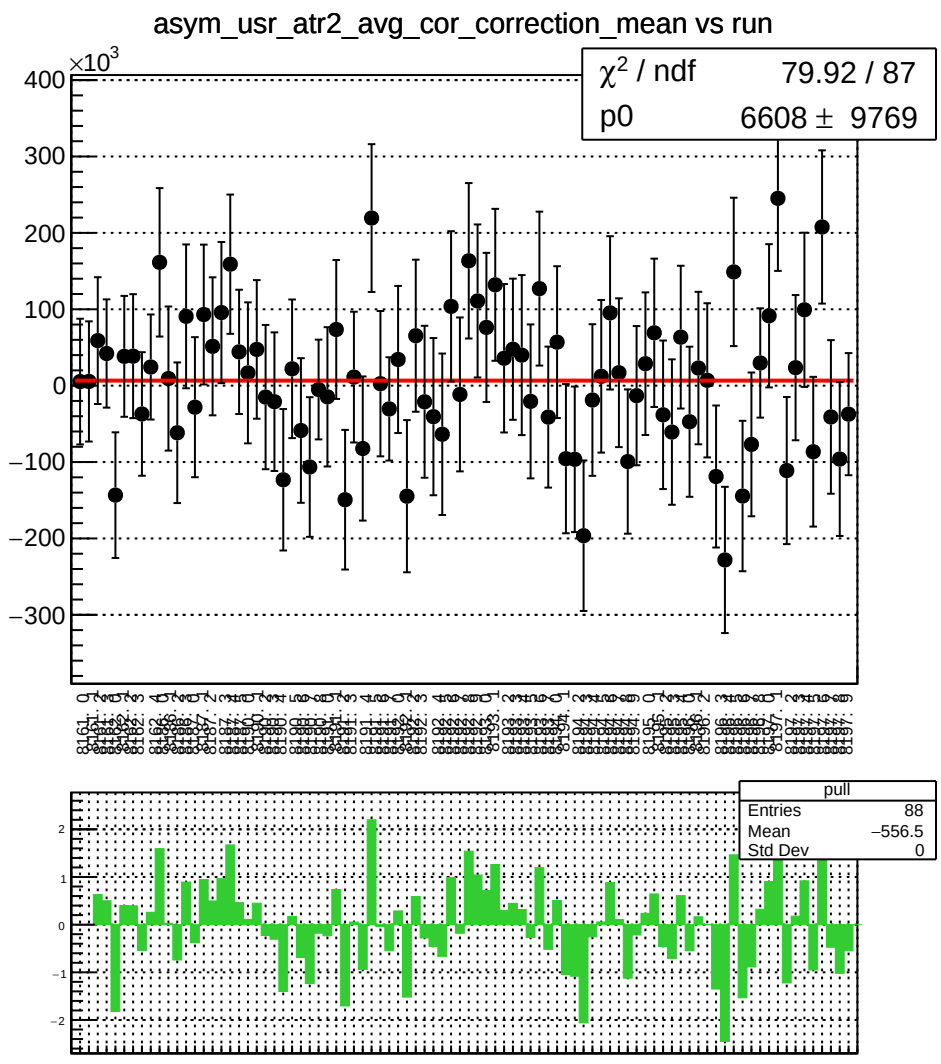

pull1D
Entries 88
Mean 0.003626
Std Dev 0.953

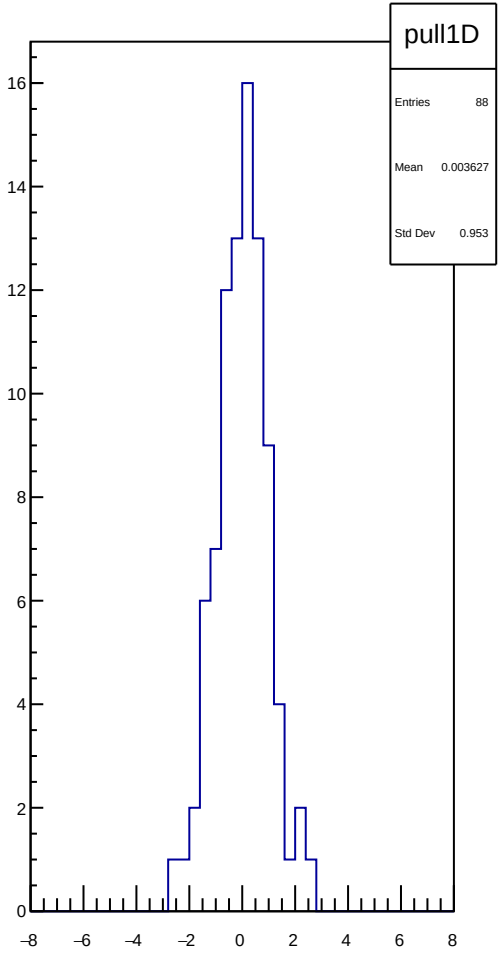

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 7737 / 87
p0 8897 ± 6.907
10000
9500
9000
8500
8000
7500

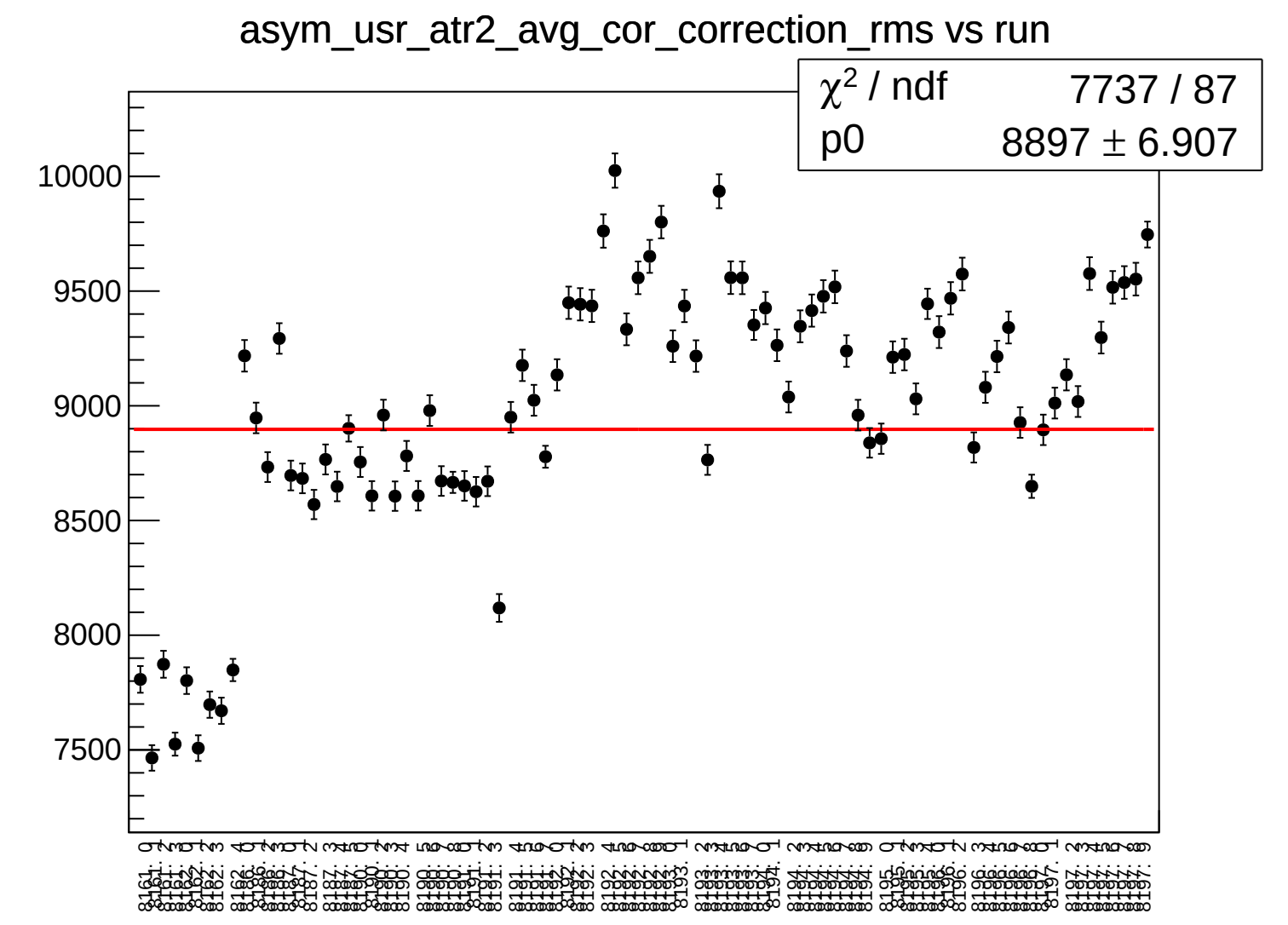

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.91 / 87
p0 −2085 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −347.5
Std Dev 0
2
1
0
−1
−2

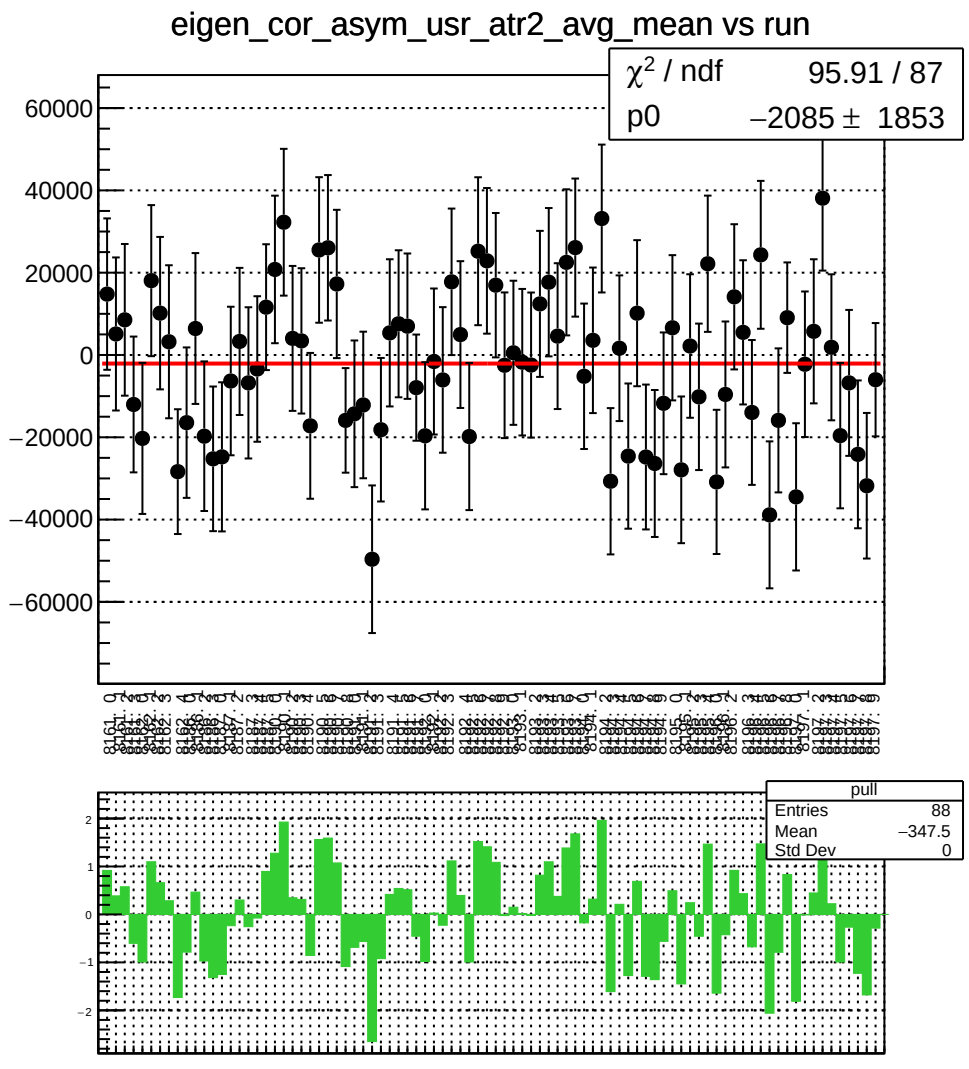

pull1D
Entries 88
Mean 0.005815
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

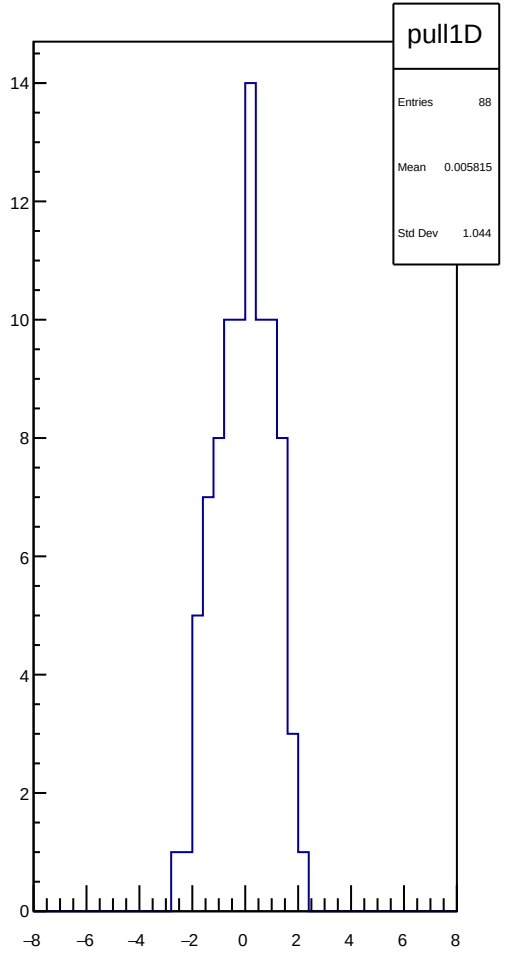

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 440.2 / 87
p0 1692 ± 1.31
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600

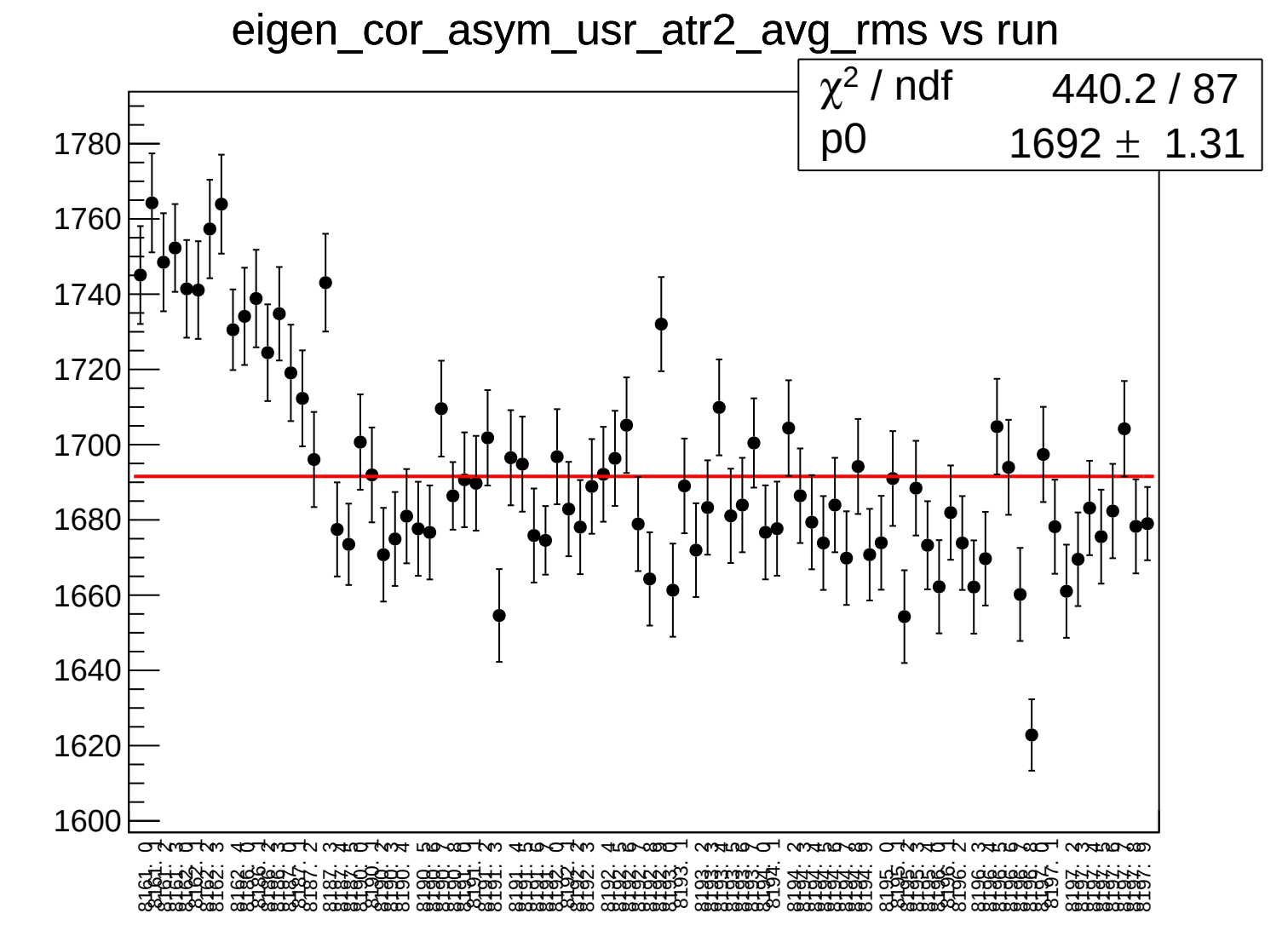

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.92 / 87
p0 6608 ± 9769
pull
Entries 88
Mean −556.5
Std Dev 0

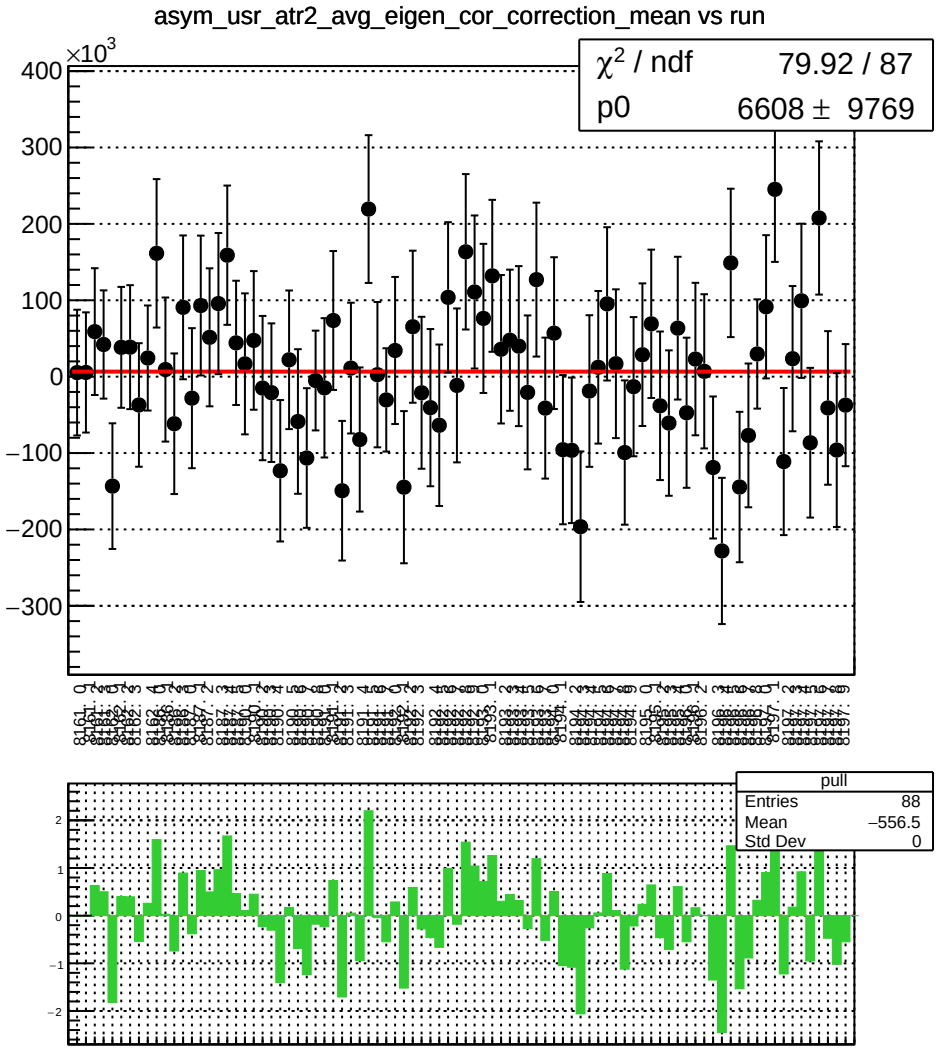

pull1D
Entries 88
Mean 0.003627
Std Dev 0.953

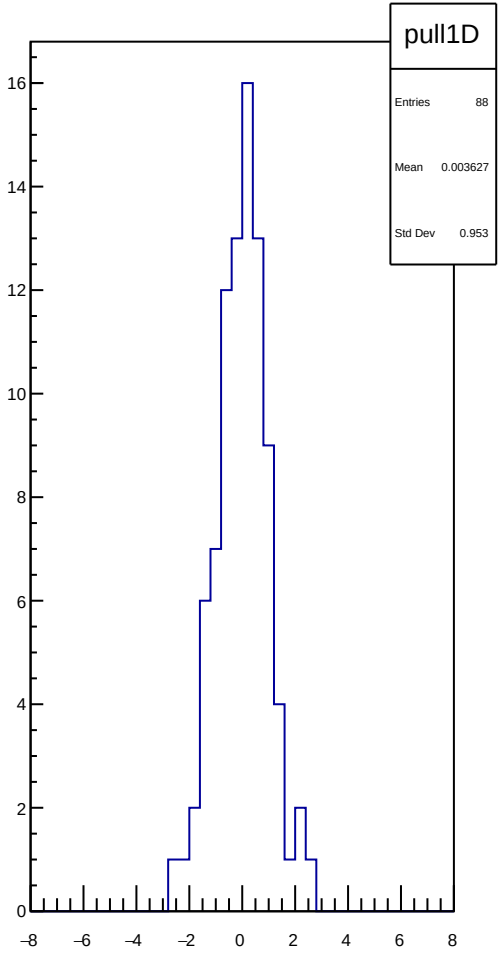

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 7737 / 87
p0 8897 ± 6.907
10000
9500
9000
8500
8000
7500

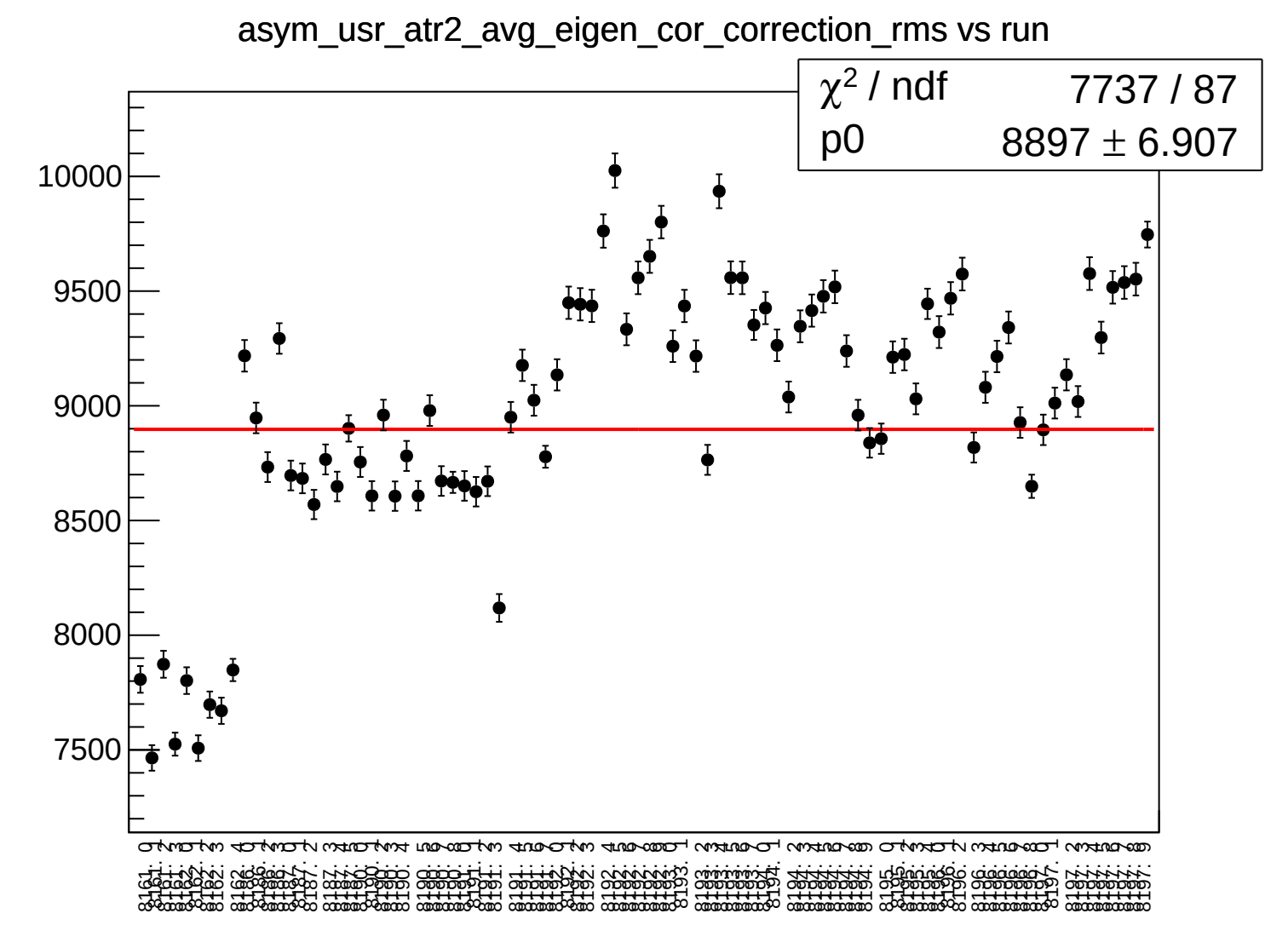

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.91 / 87
p0 −2085 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −347.5
Std Dev 0
2
1
0
−1
−2

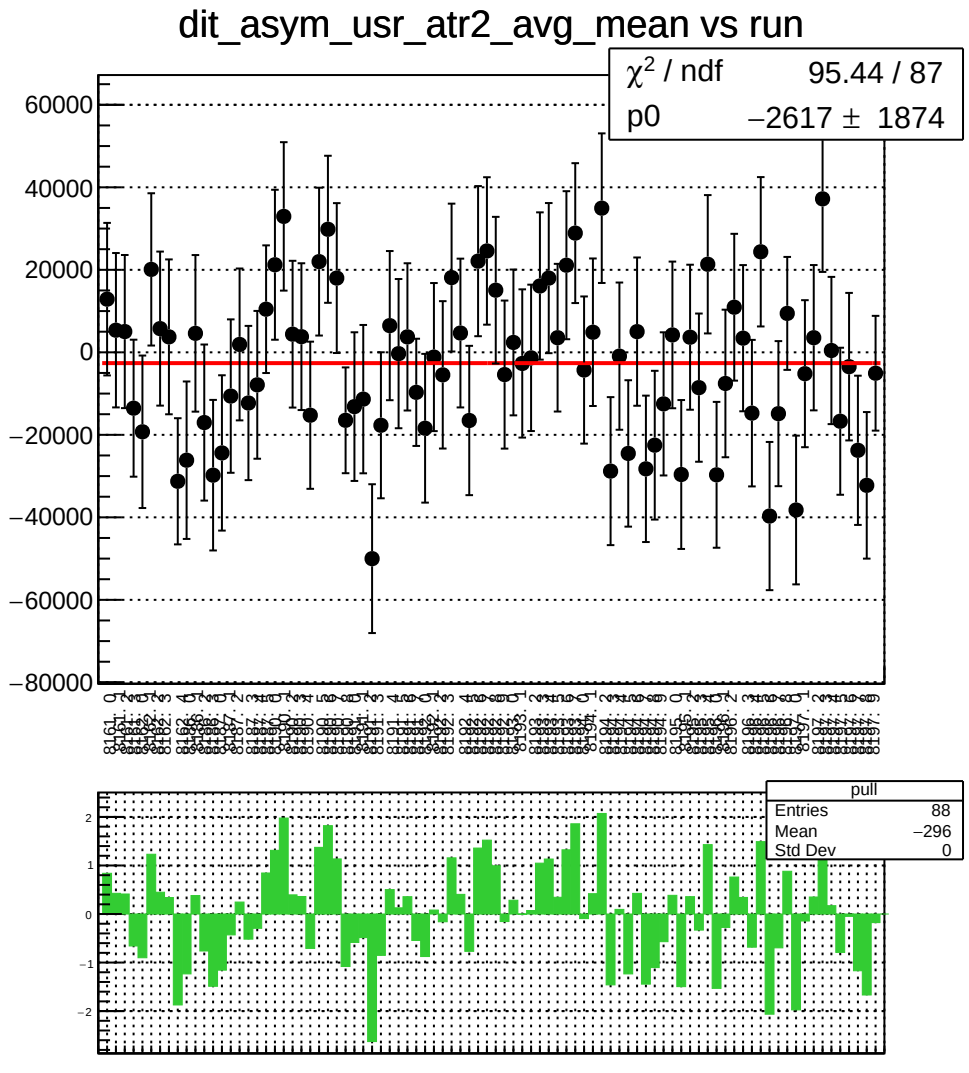

pull1D
Entries 88
Mean 0.005815
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

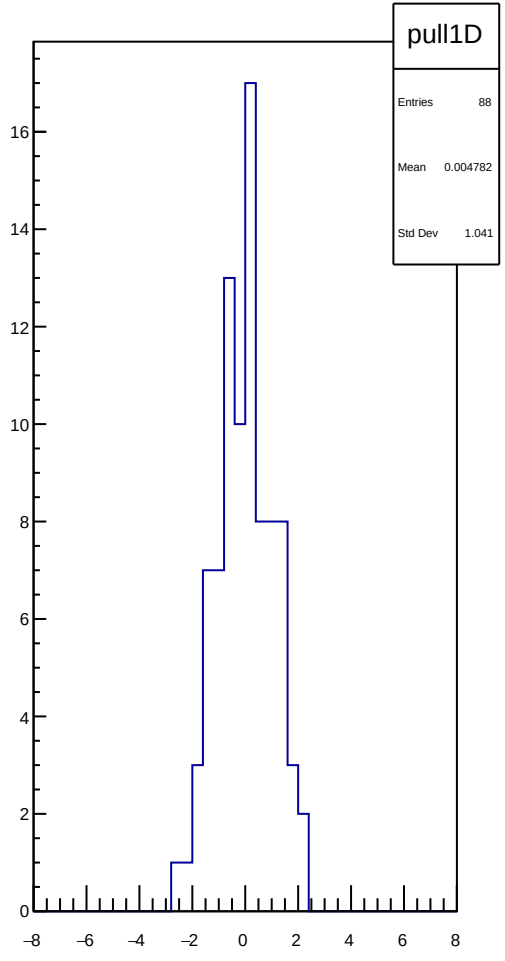

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 440.2 / 87
p0 1692 ± 1.31
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600

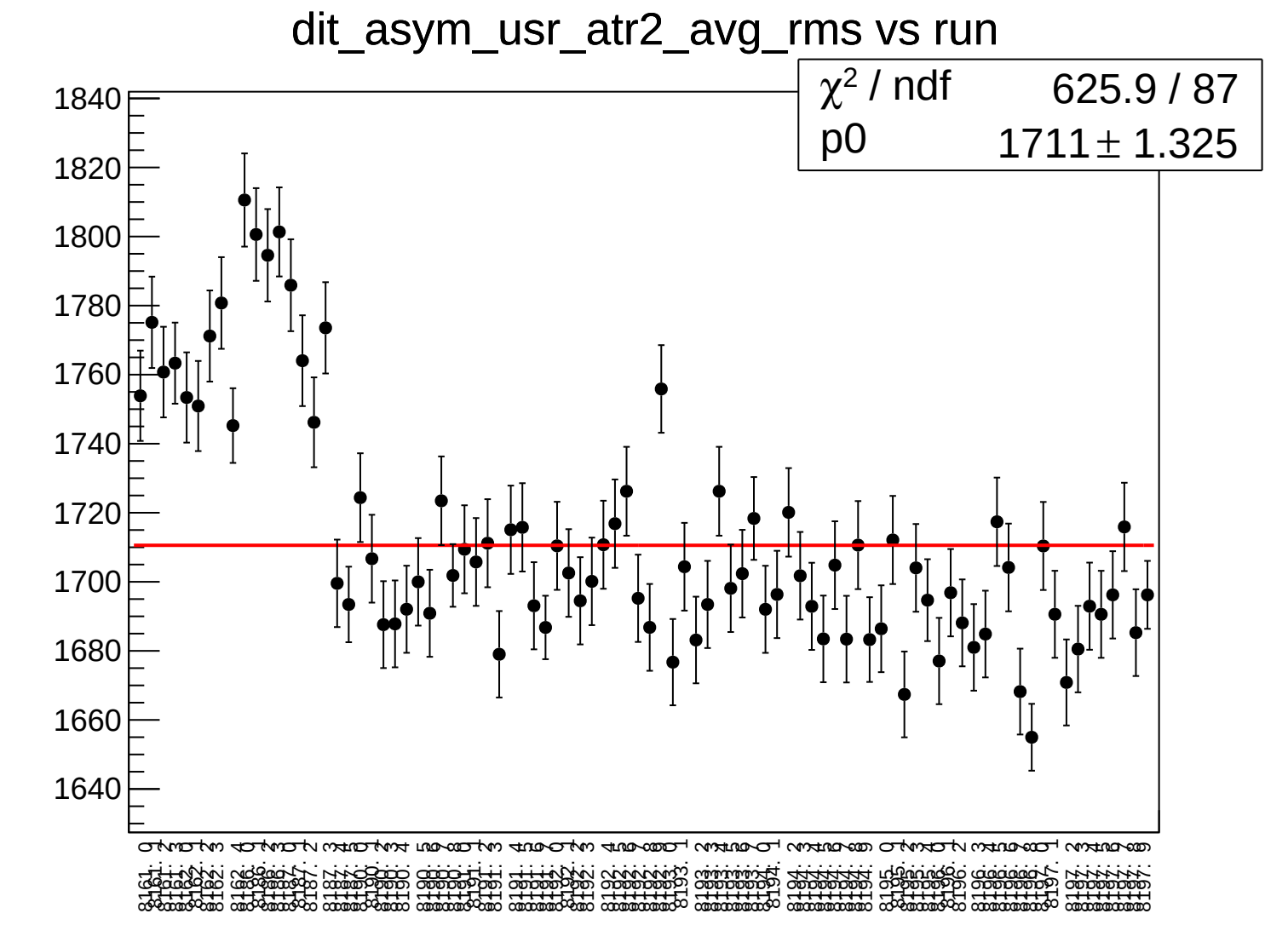

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.92 / 87
p0 6608 ± 9769
×10³
pull
Entries 88
Mean −556.5
Std Dev 0

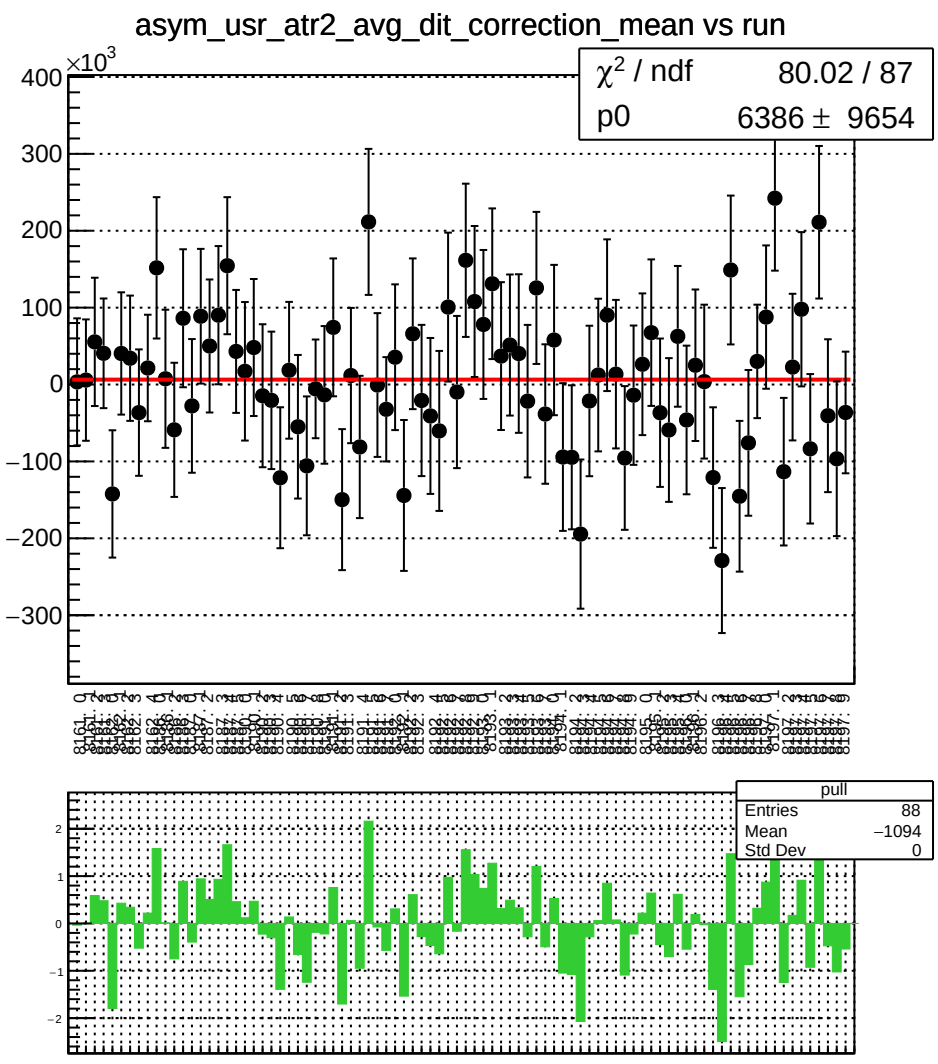

pull1D
Entries 88
Mean 0.003627
Std Dev 0.953

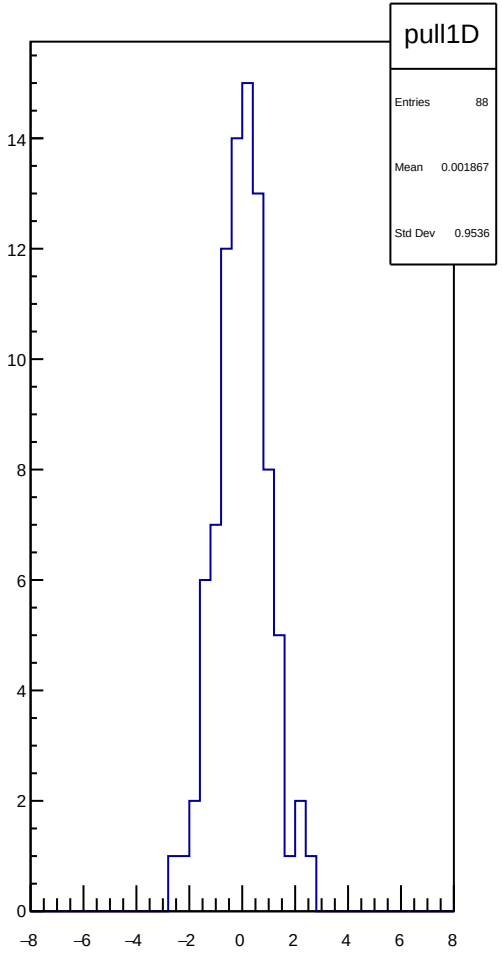

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 7737 / 87
p0 8897 ± 6.907
10000
9500
9000
8500
8000
7500

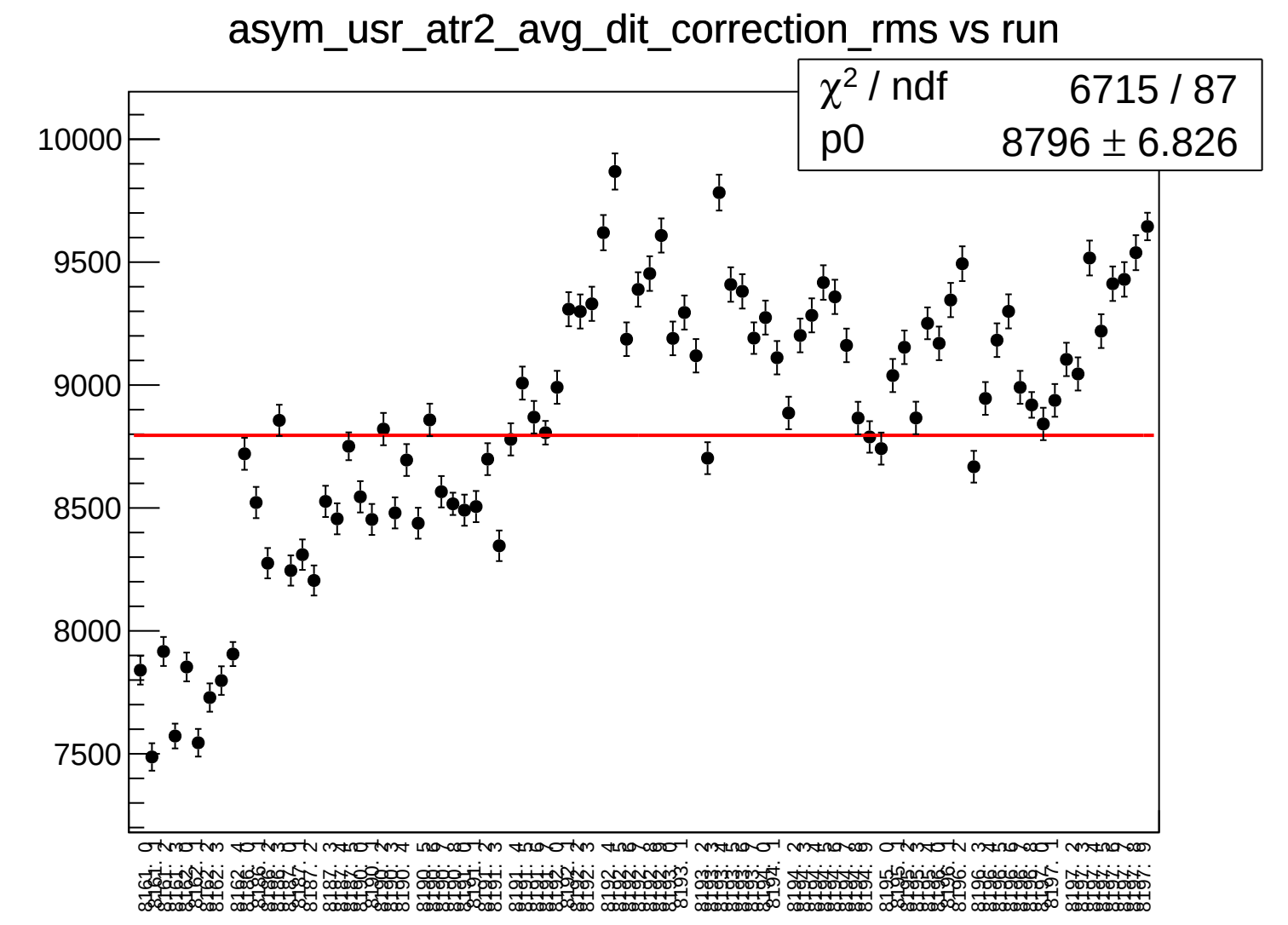

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.44 / 87
p0 −2617 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −296
Std Dev 0
2
1
0
−1
−2

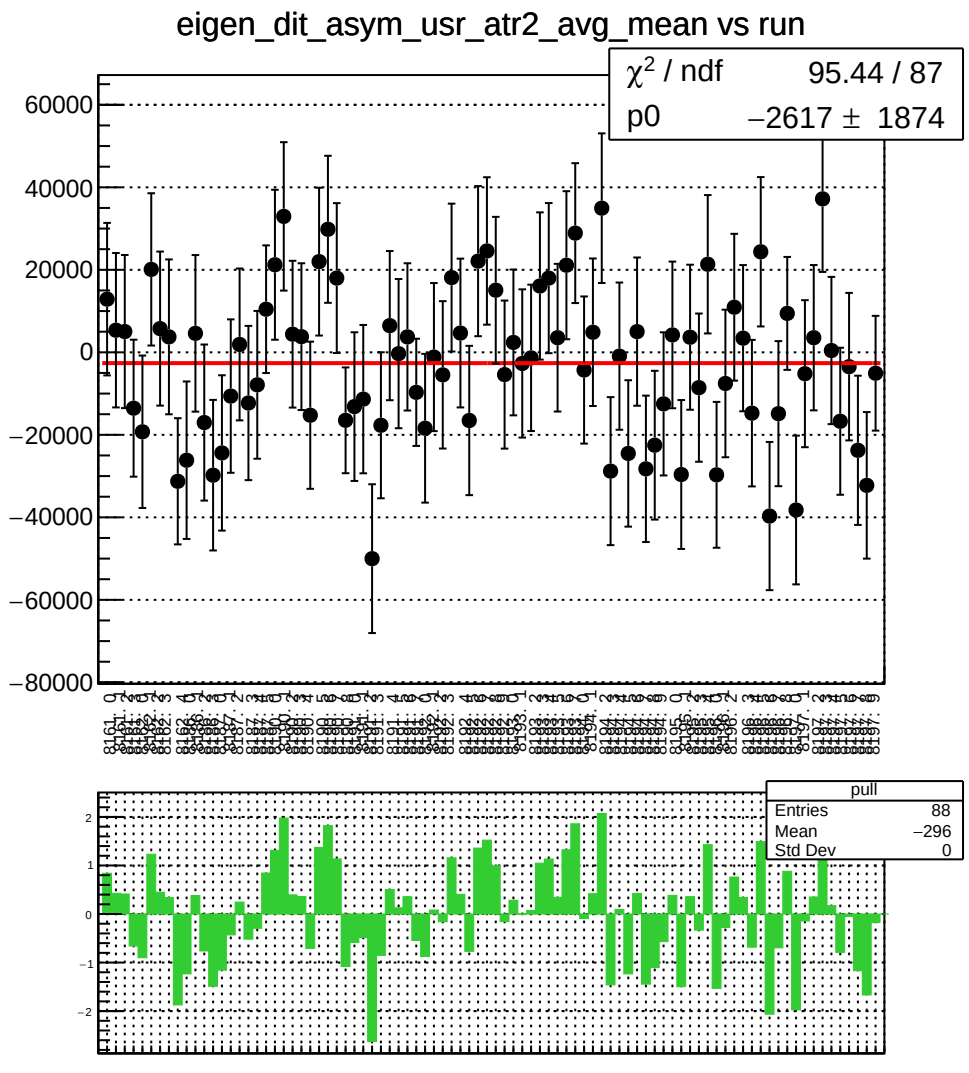

pull1D
Entries 88
Mean 0.004782
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

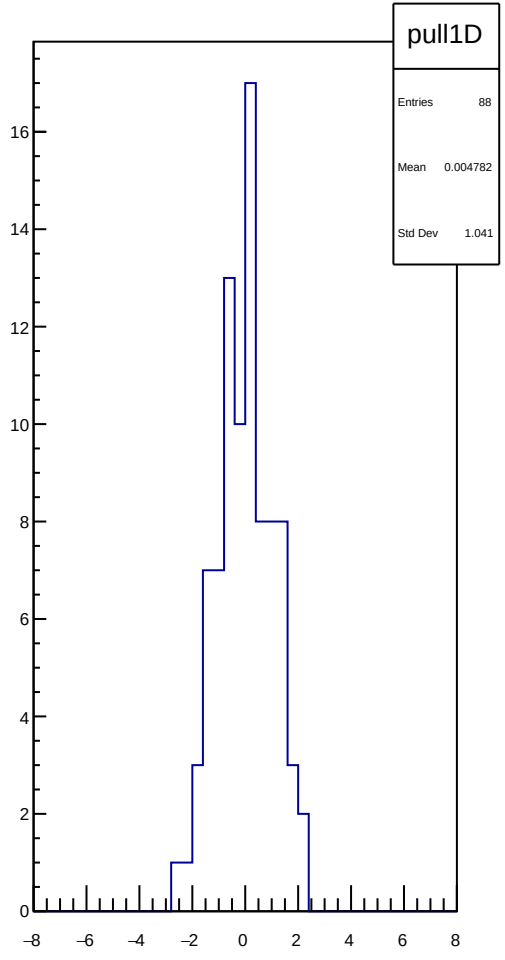

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 625.9 / 87
p0 1711 ± 1.325
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

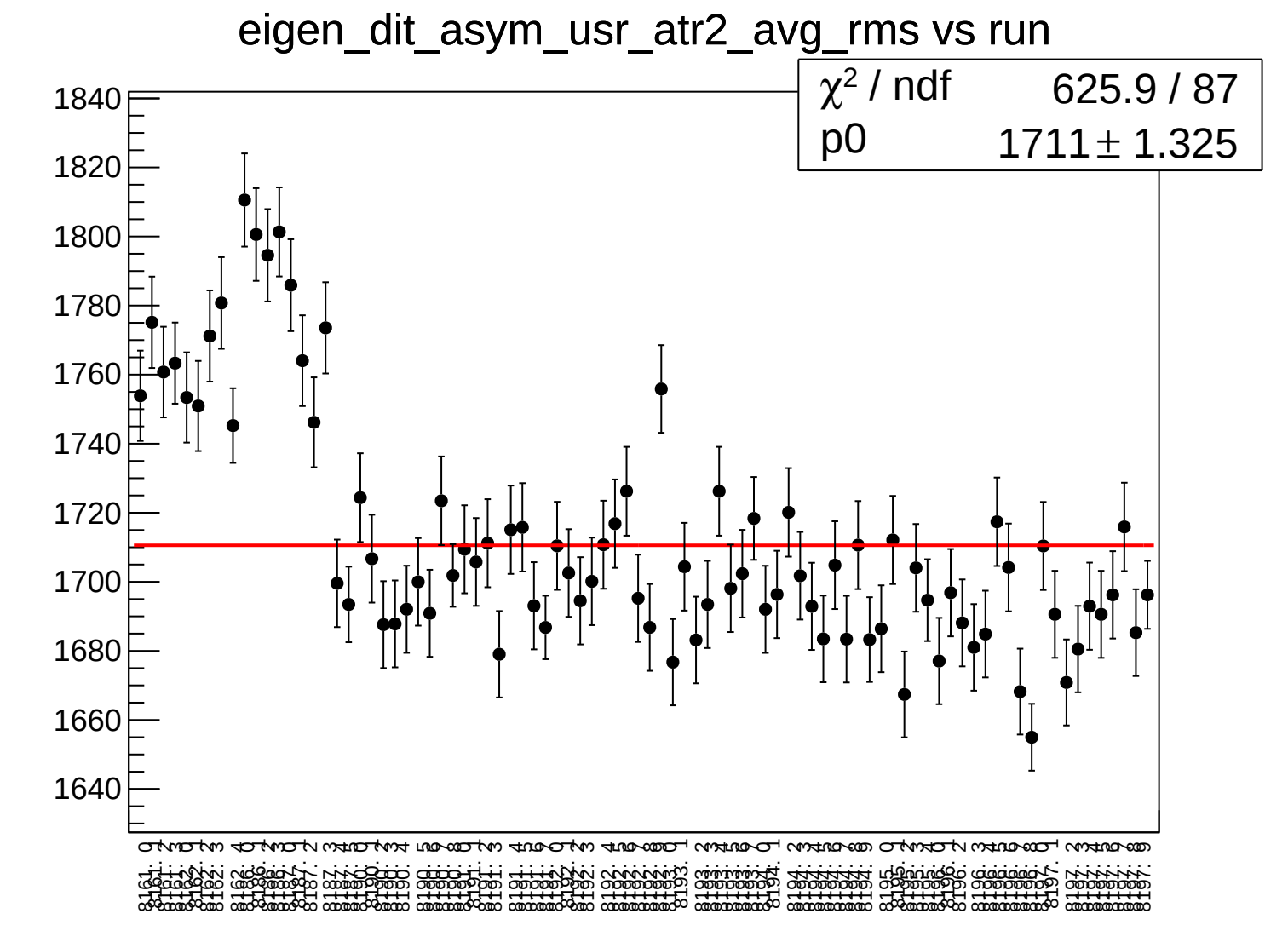

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 80.02 / 87
p0 6386 ± 9654
pull
Entries 88
Mean −1094
Std Dev 0
2
1
0
−1
−2

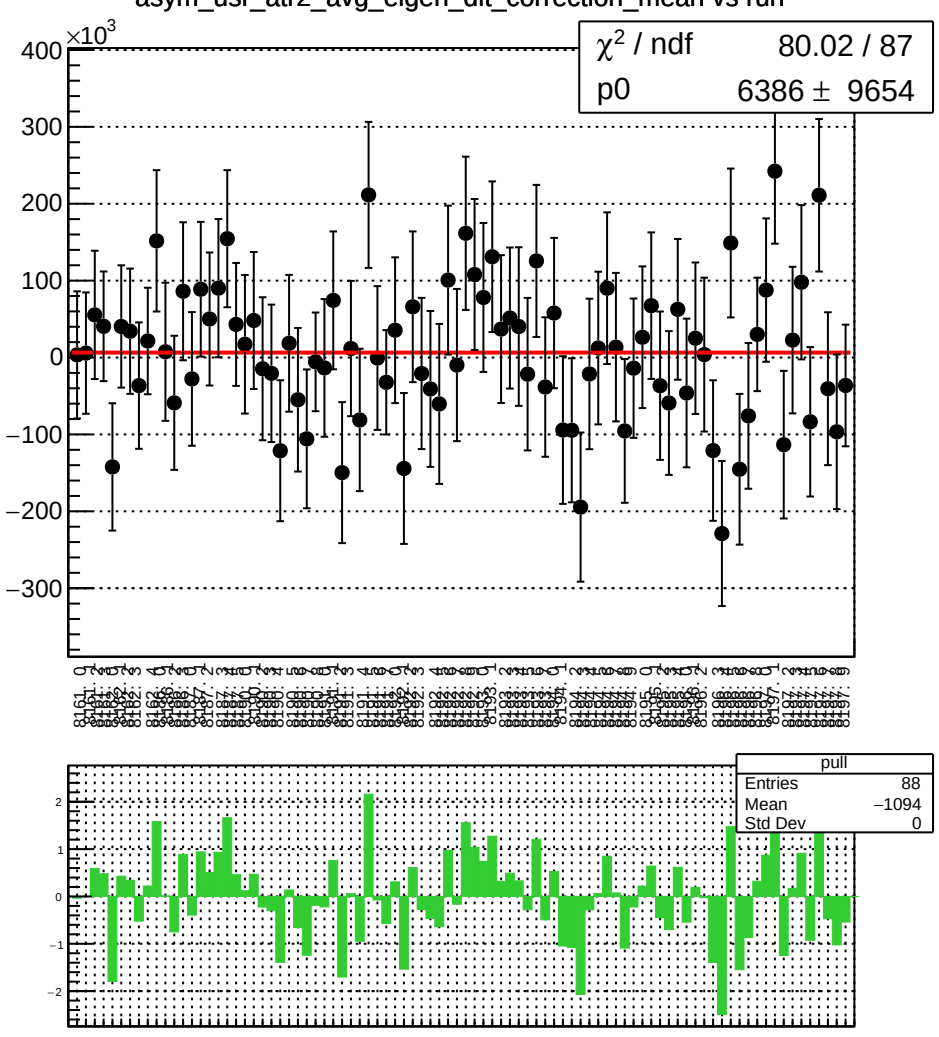

pull1D
Entries 88
Mean 0.001867
Std Dev 0.9536
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

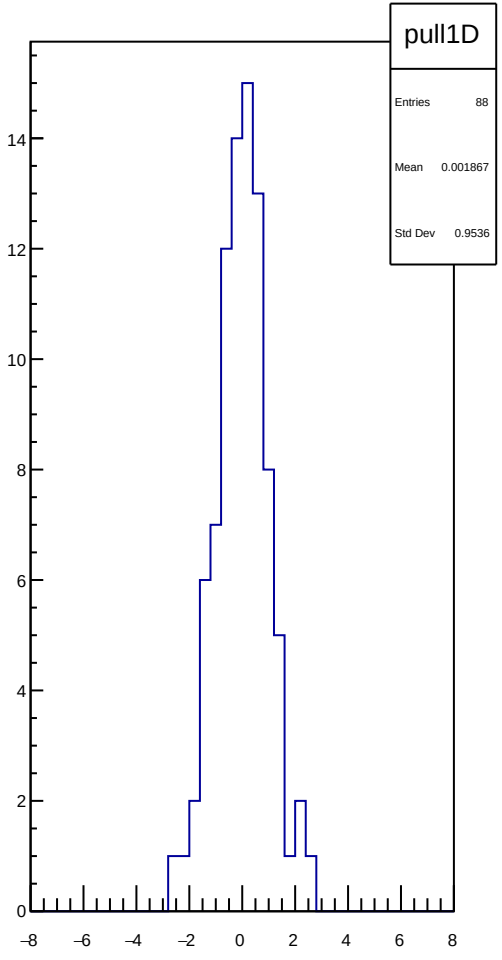

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 6715 / 87
p0 8796 ± 6.826
10000
9500
9000
8500
8000
7500

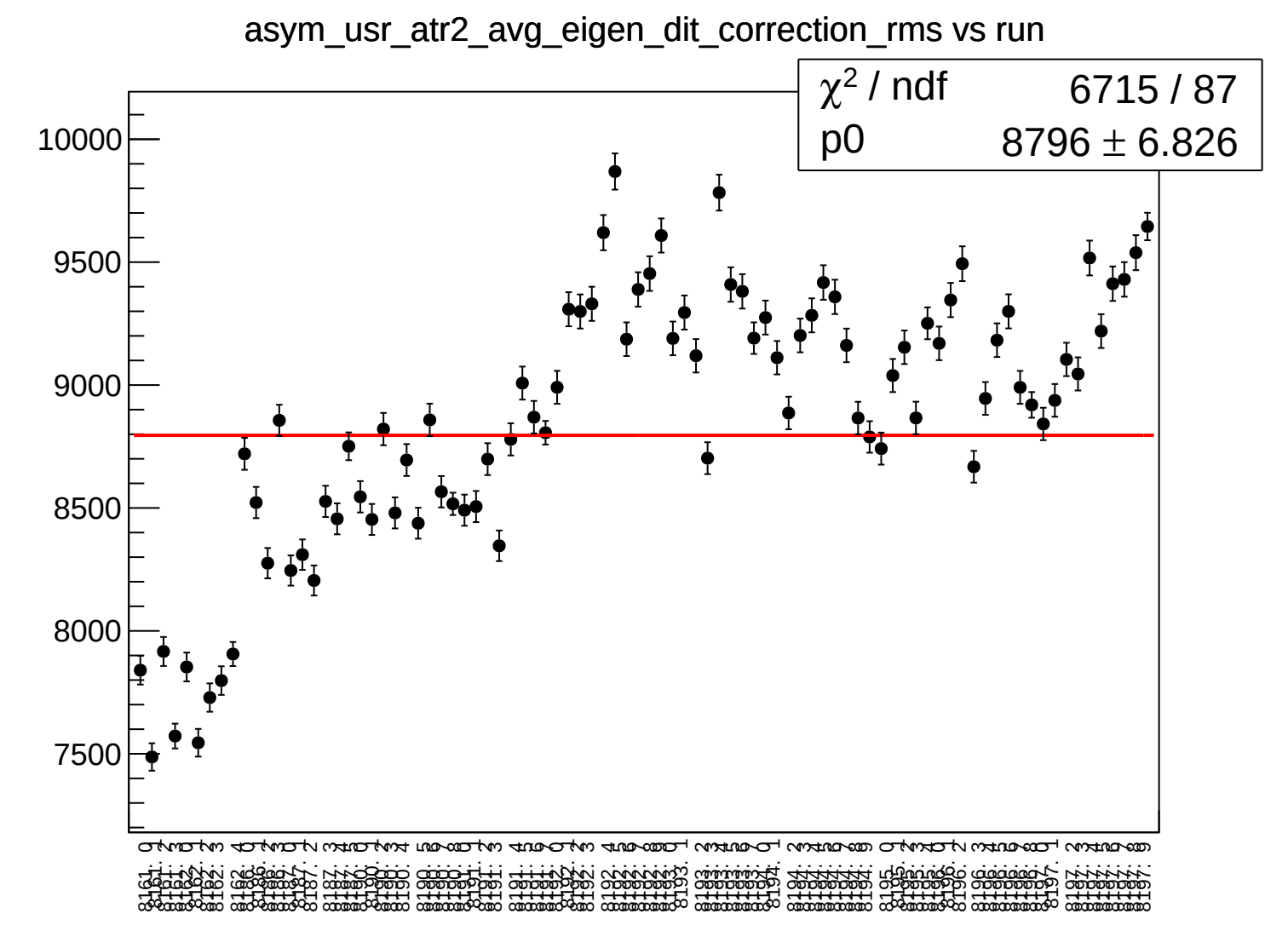

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.44 / 87
p0 −2617 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −296
Std Dev 0
2
1
0
−1
−2

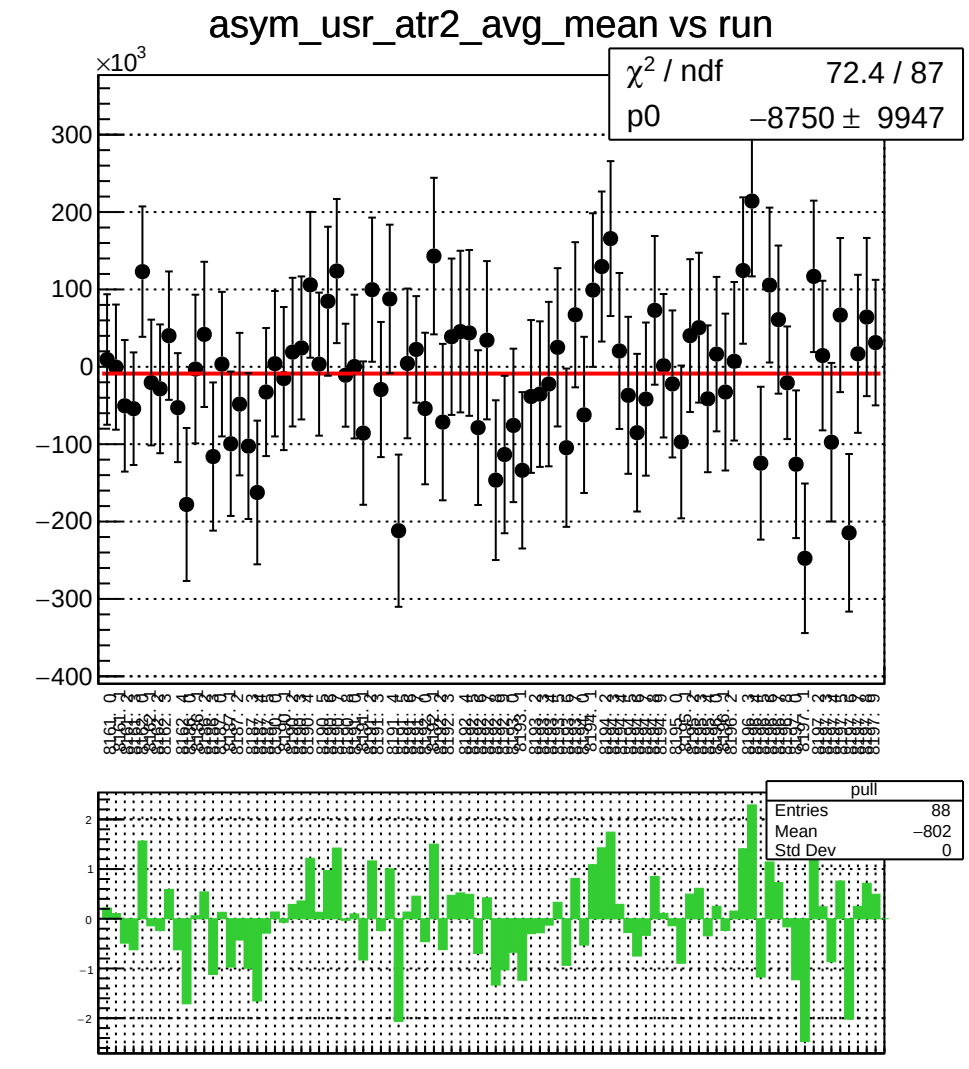

pull1D
Entries 88
Mean 0.004782
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

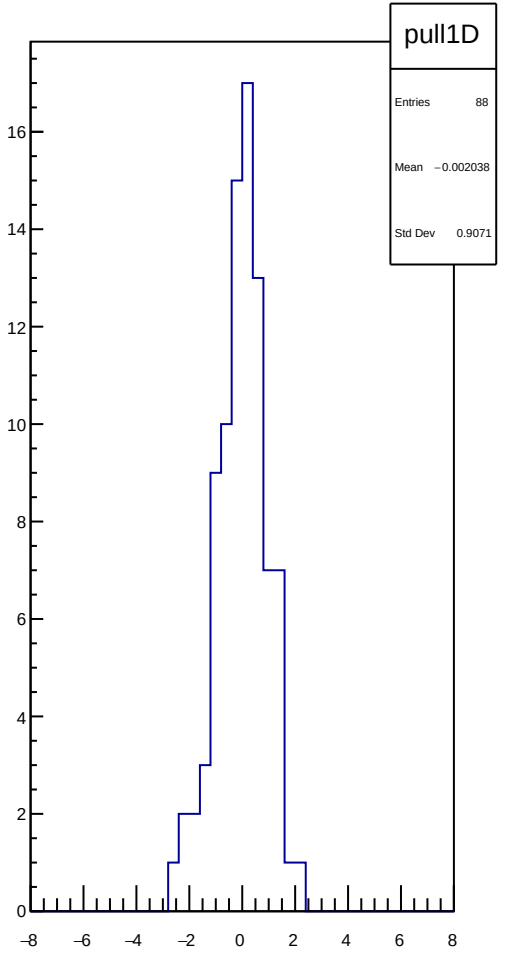

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 625.9 / 87
p0 1711 ± 1.325
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

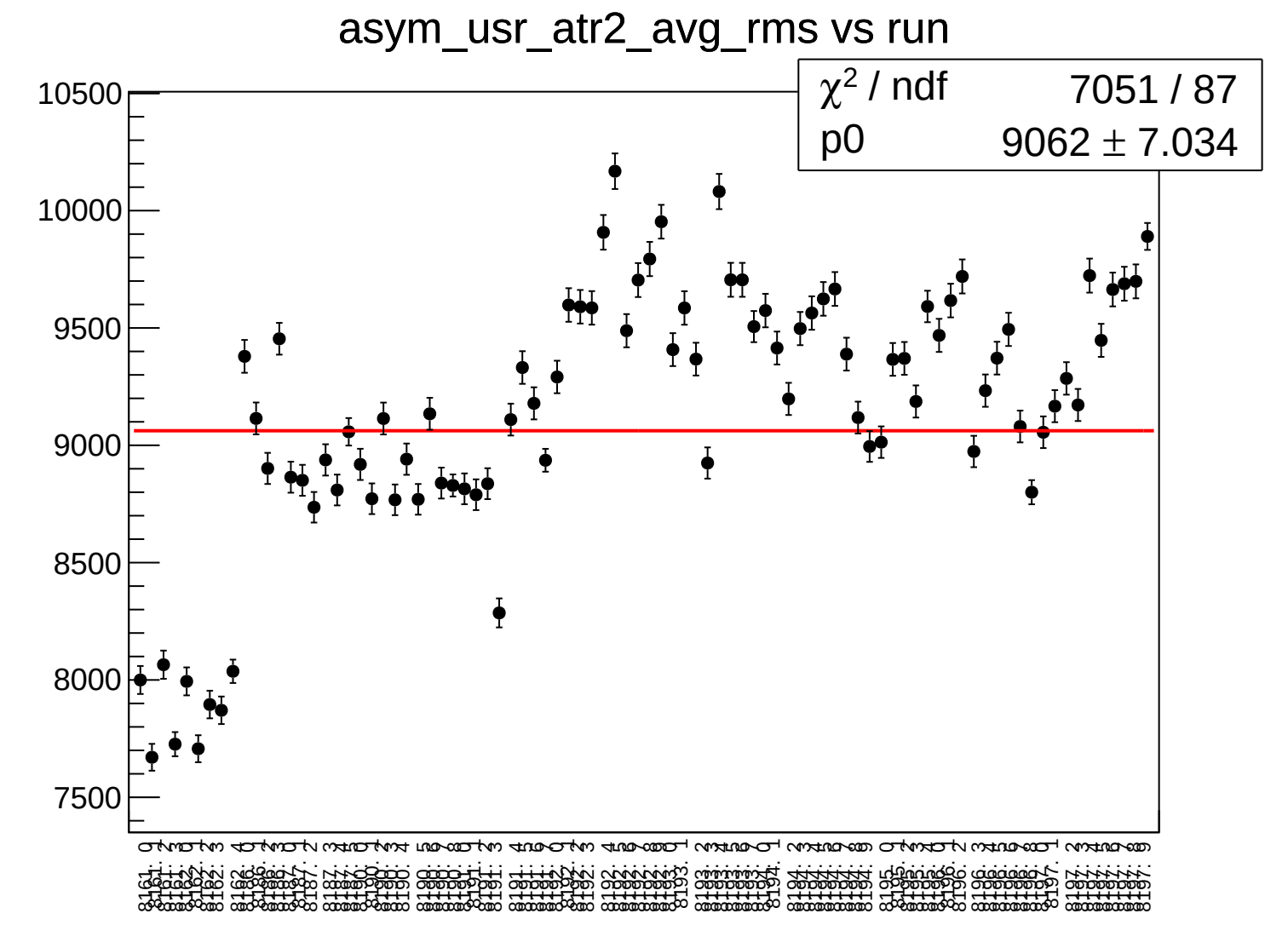

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.02 / 87
p0 6386 ± 9654
pull
Entries 88
Mean −1094
Std Dev 0

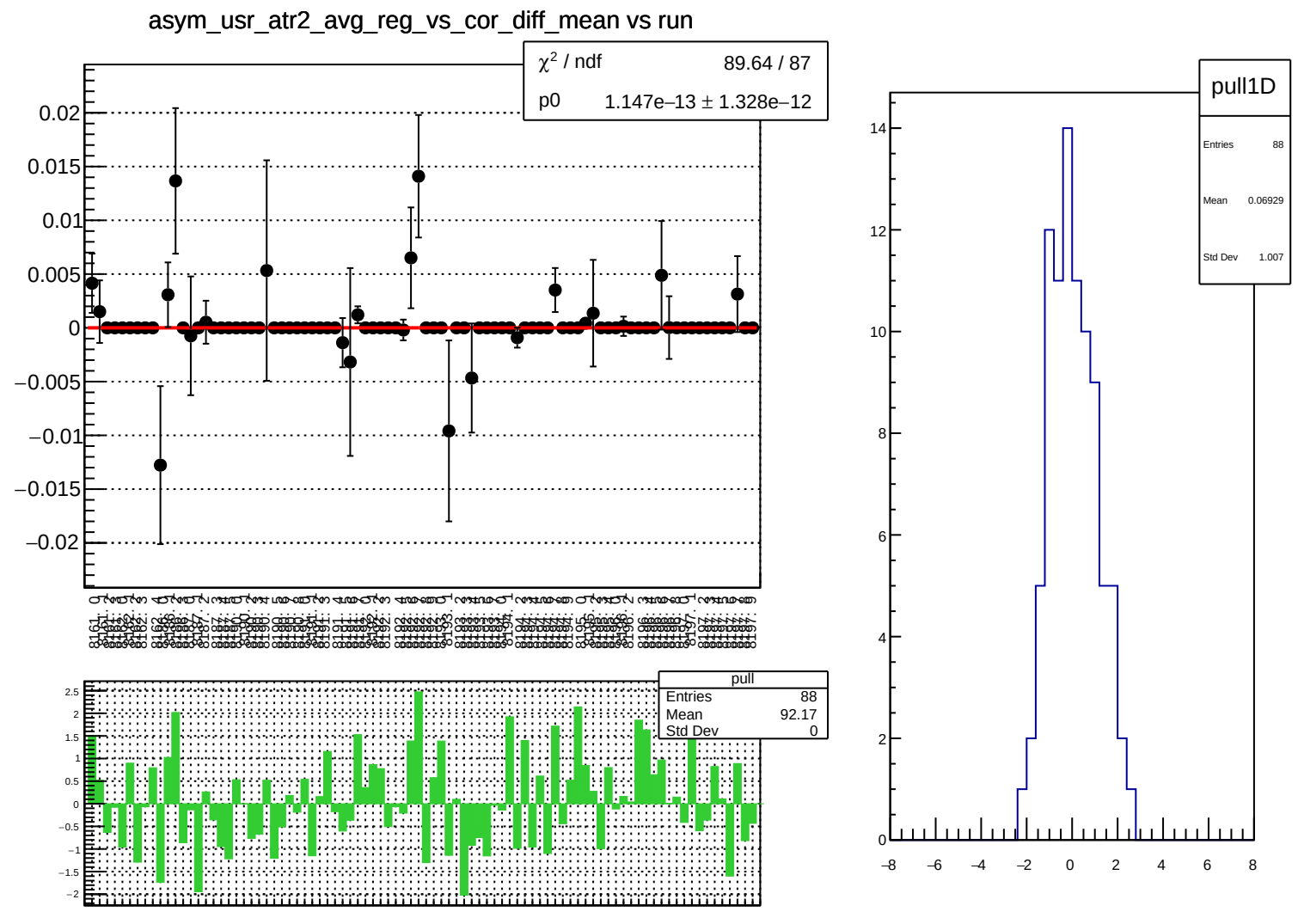

pull1D
Entries 88
Mean 0.001867
Std Dev 0.9536

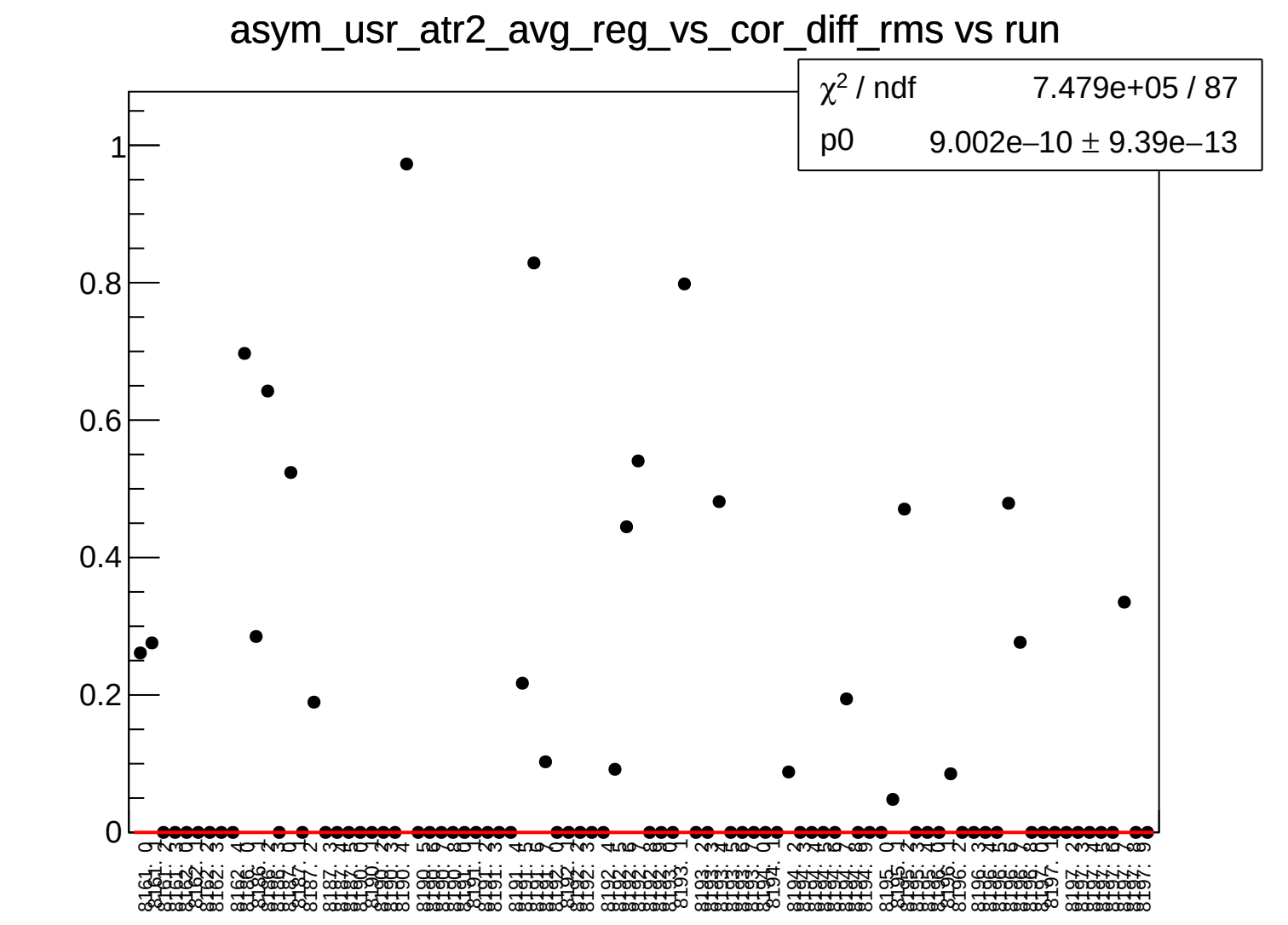

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6715 / 87
p0 8796 ± 6.826
10000
9500
9000
8500
8000
7500

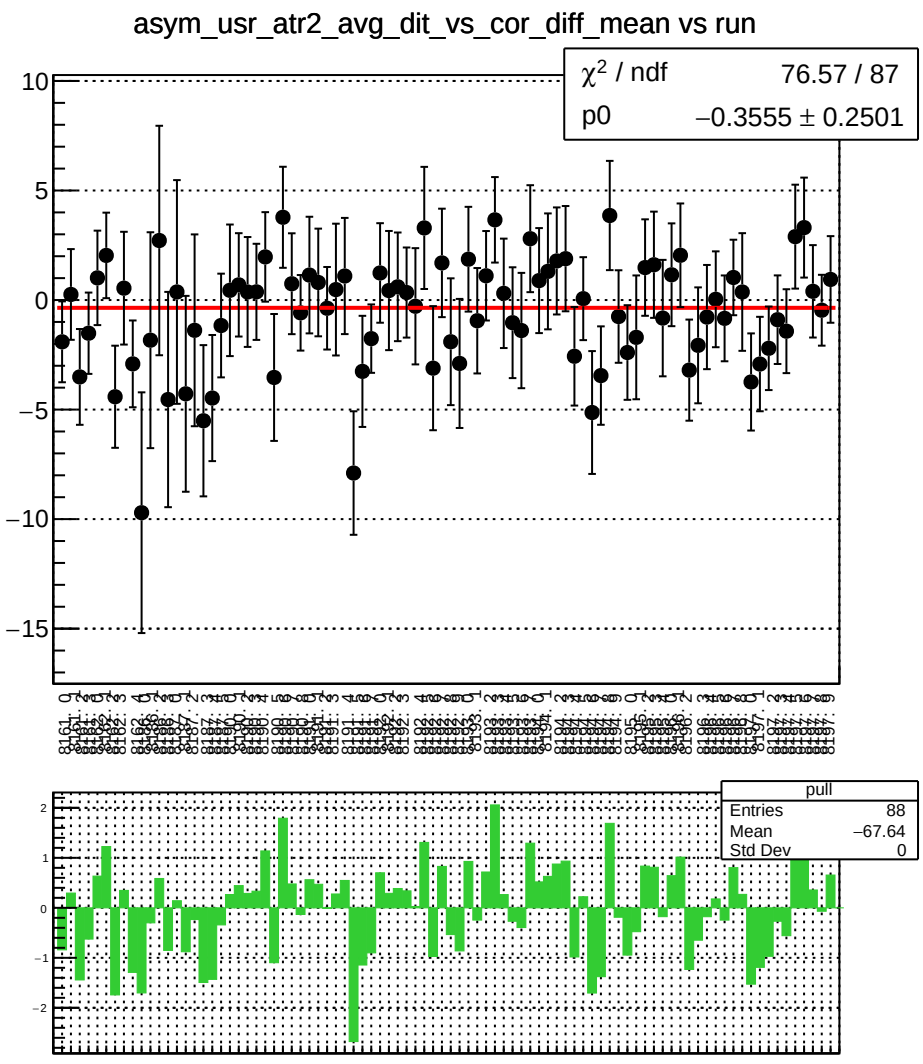

asym_usr_atr2_avg_mean vs run
χ² / ndf 72.4 / 87
p0 −8750 ± 9947
×10³
300
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean −802
Std Dev 0
2
1
0
−1
−2

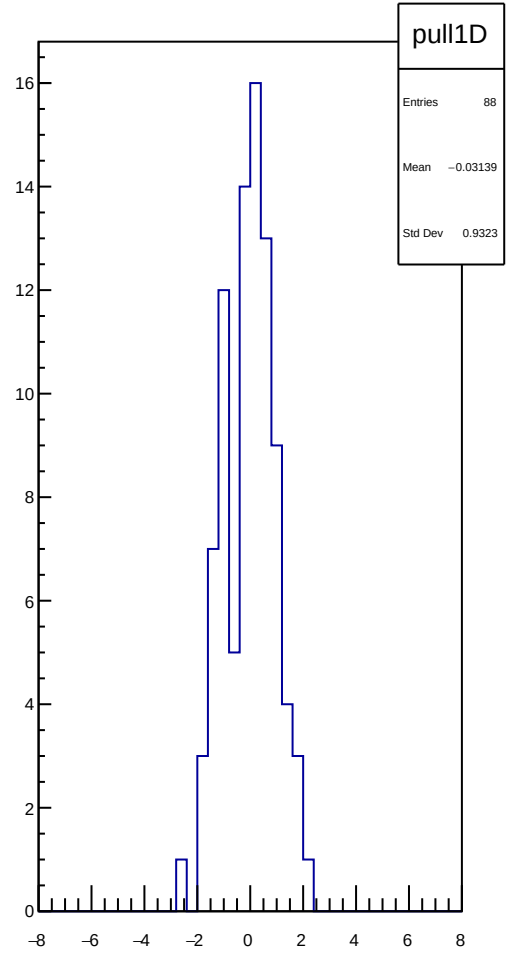

pull1D
Entries 88
Mean −0.002038
Std Dev 0.9071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

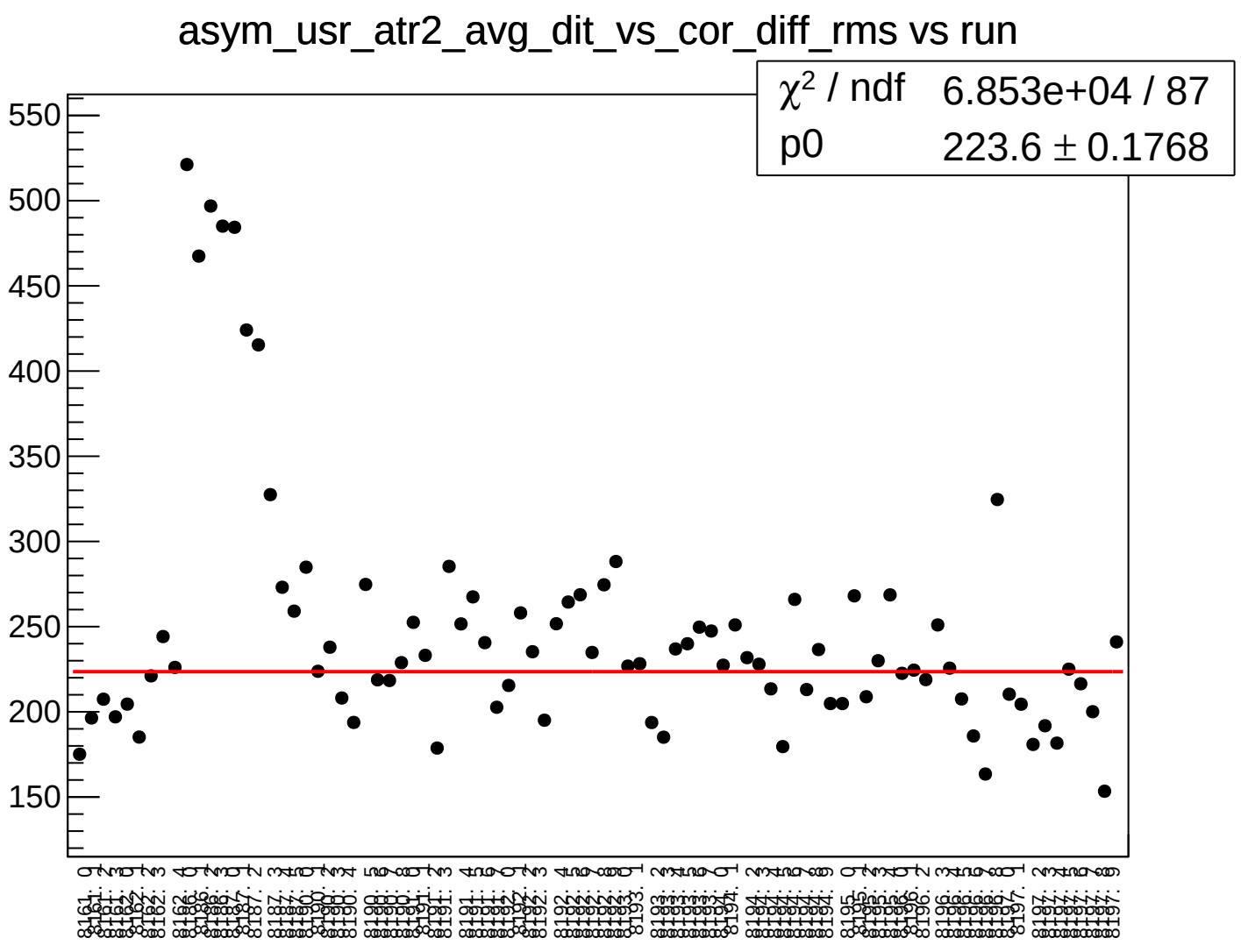

asym_usr_atr2_avg_rms vs run
χ² / ndf 7051 / 87
p0 9062 ± 7.034
10500
10000
9500
9000
8500
8000
7500

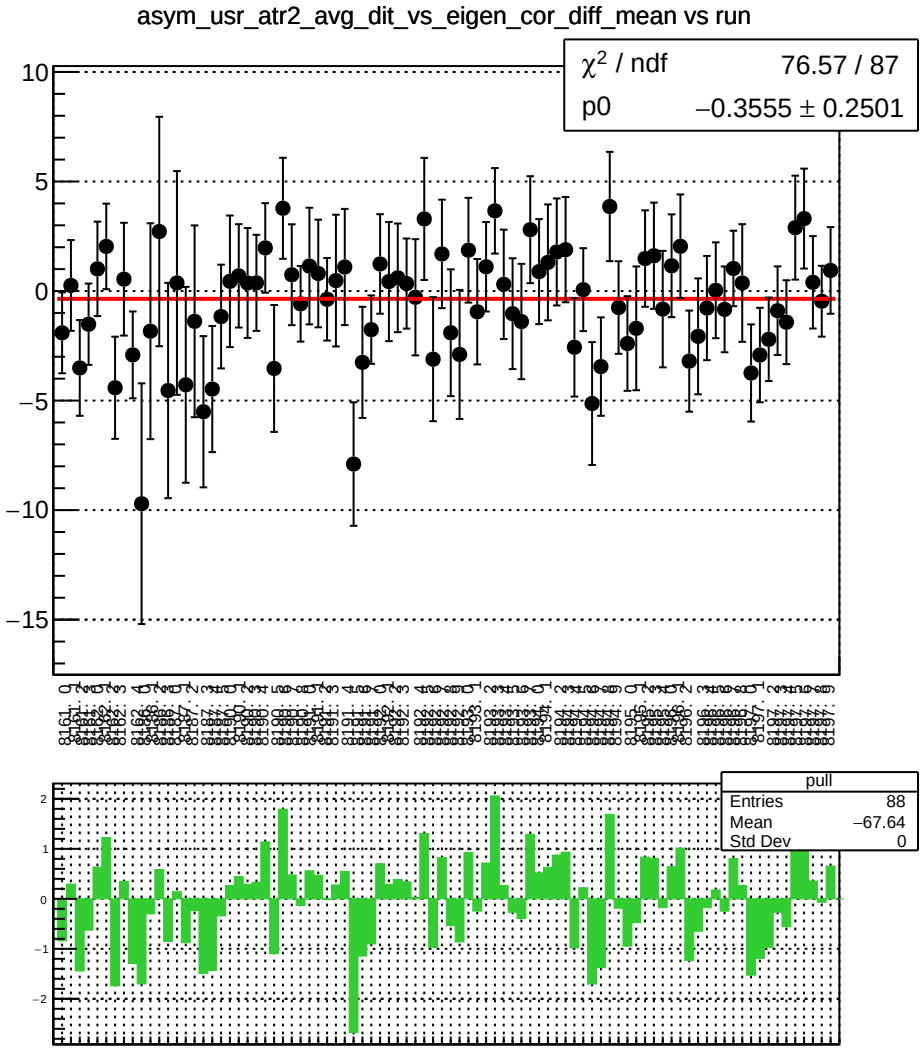

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.64 / 87
p0 1.147e−13 ± 1.328e−12
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean 92.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.06929
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

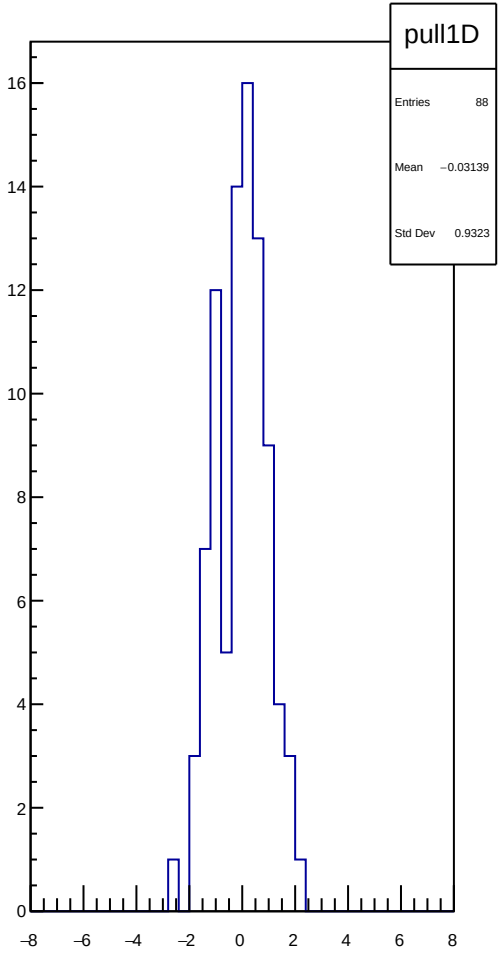

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.479e+05 / 87
p0 9.002e−10 ± 9.39e−13
1
0.8
0.6
0.4
0.2
0

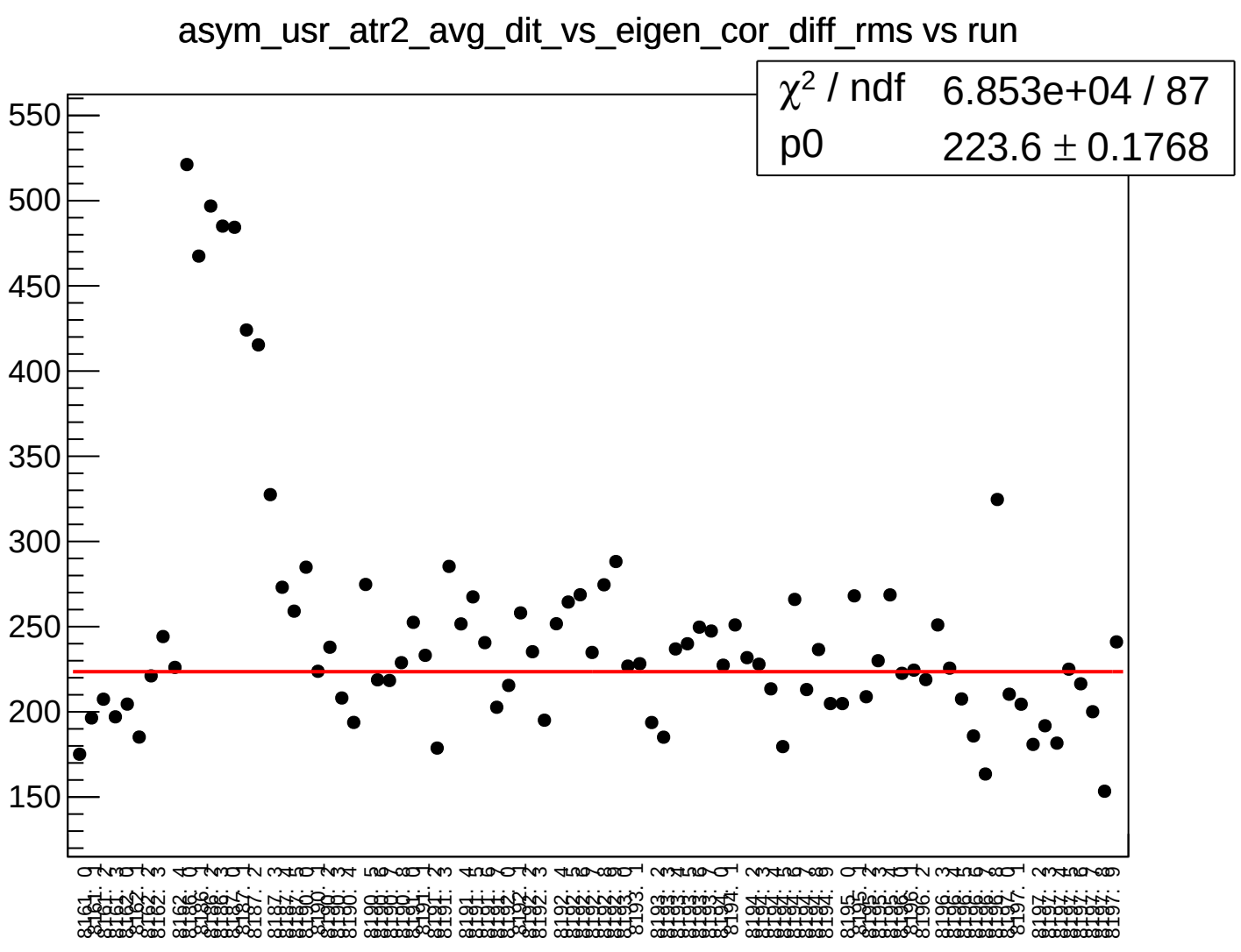

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.57 / 87
p0 −0.3555 ± 0.2501
pull
Entries 88
Mean −67.64
Std Dev 0

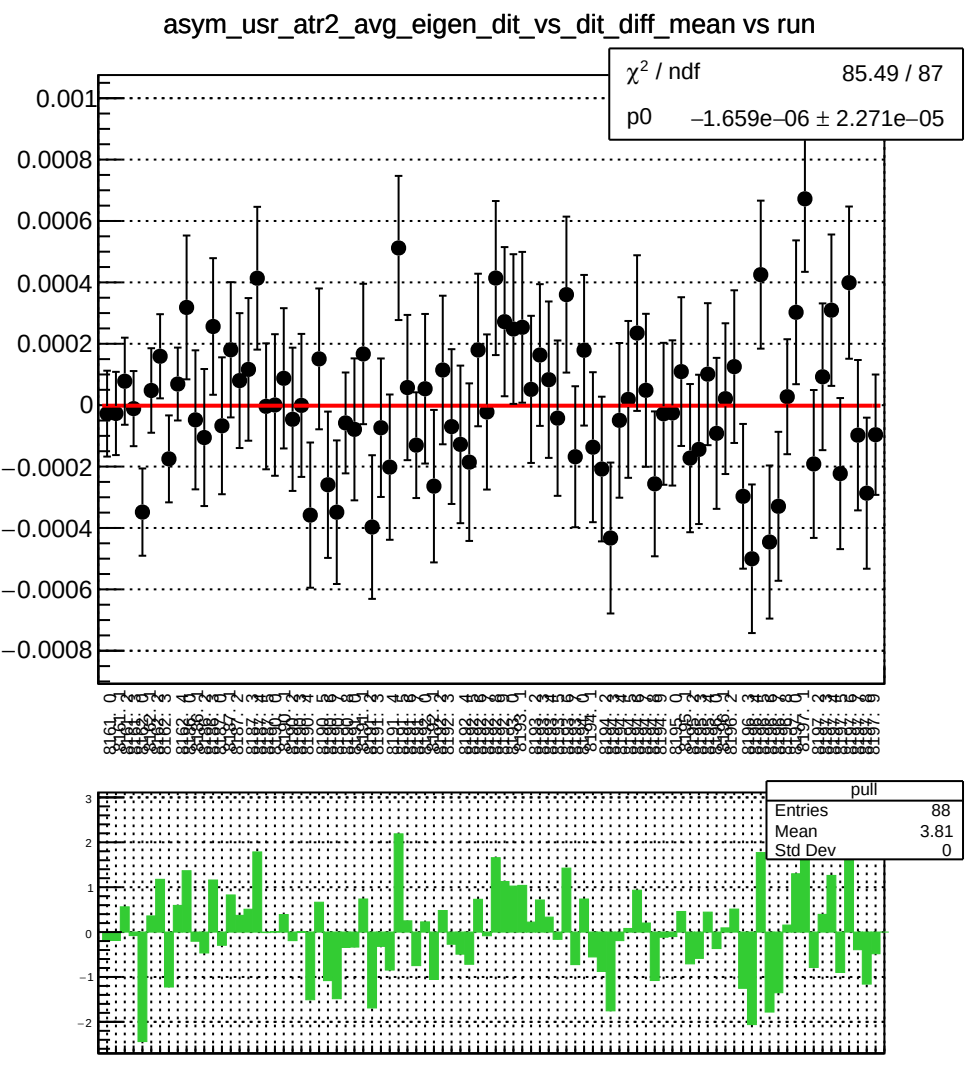

pull1D
Entries 88
Mean −0.03139
Std Dev 0.9323

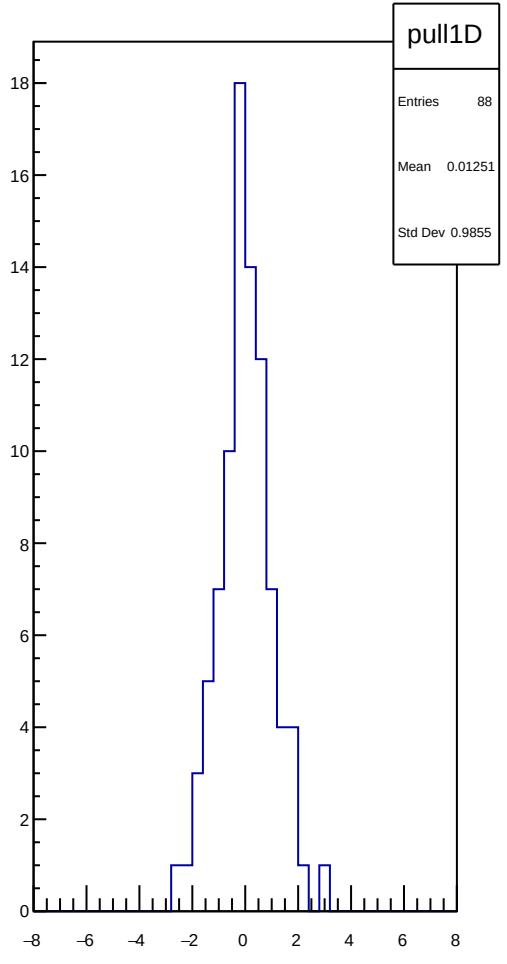

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.853e+04 / 87
p0 223.6 ± 0.1768
550
500
450
400
350
300
250
200
150

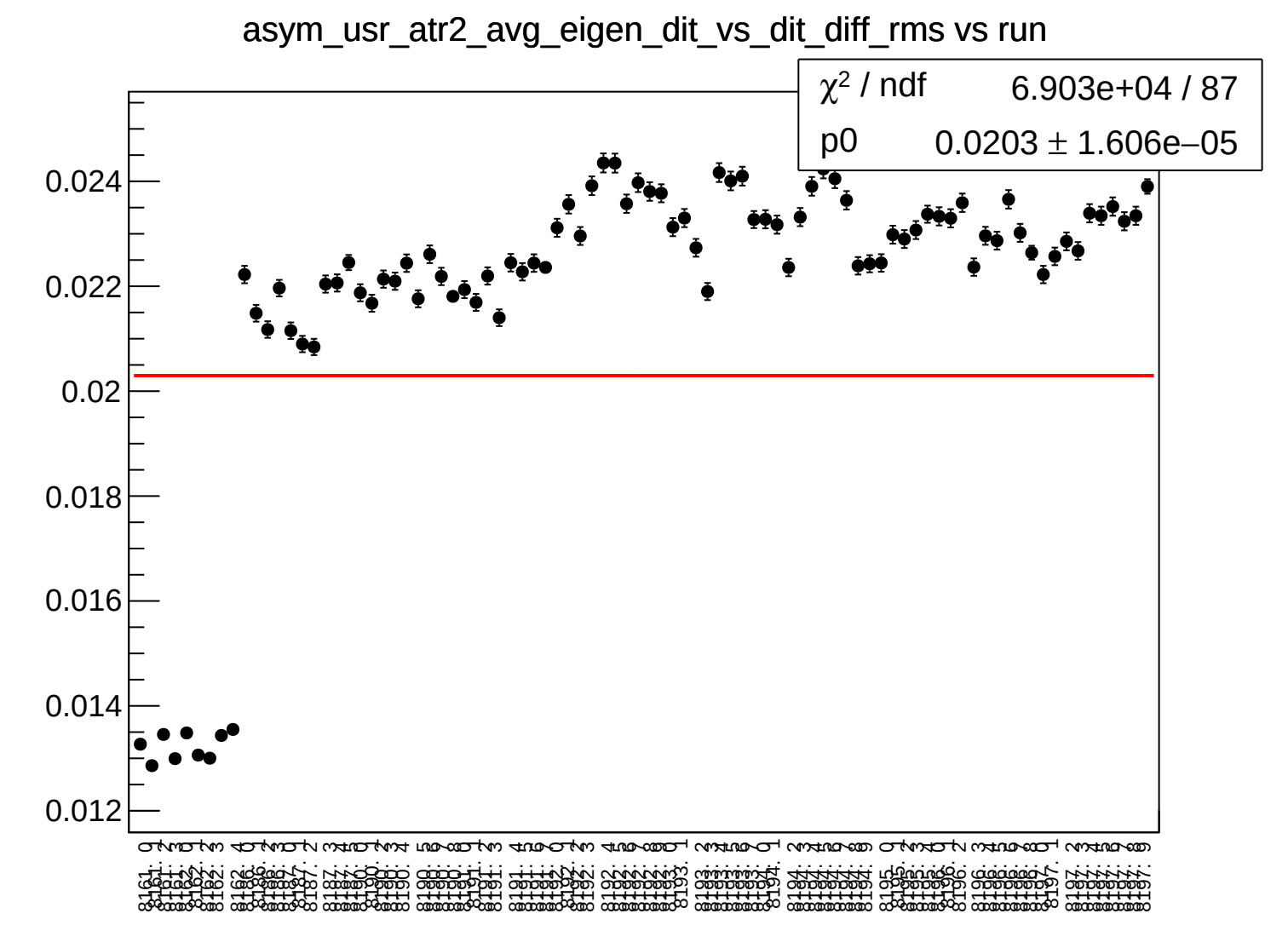

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.57 / 87
p0 −0.3555 ± 0.2501
pull
Entries 88
Mean −67.64
Std Dev 0

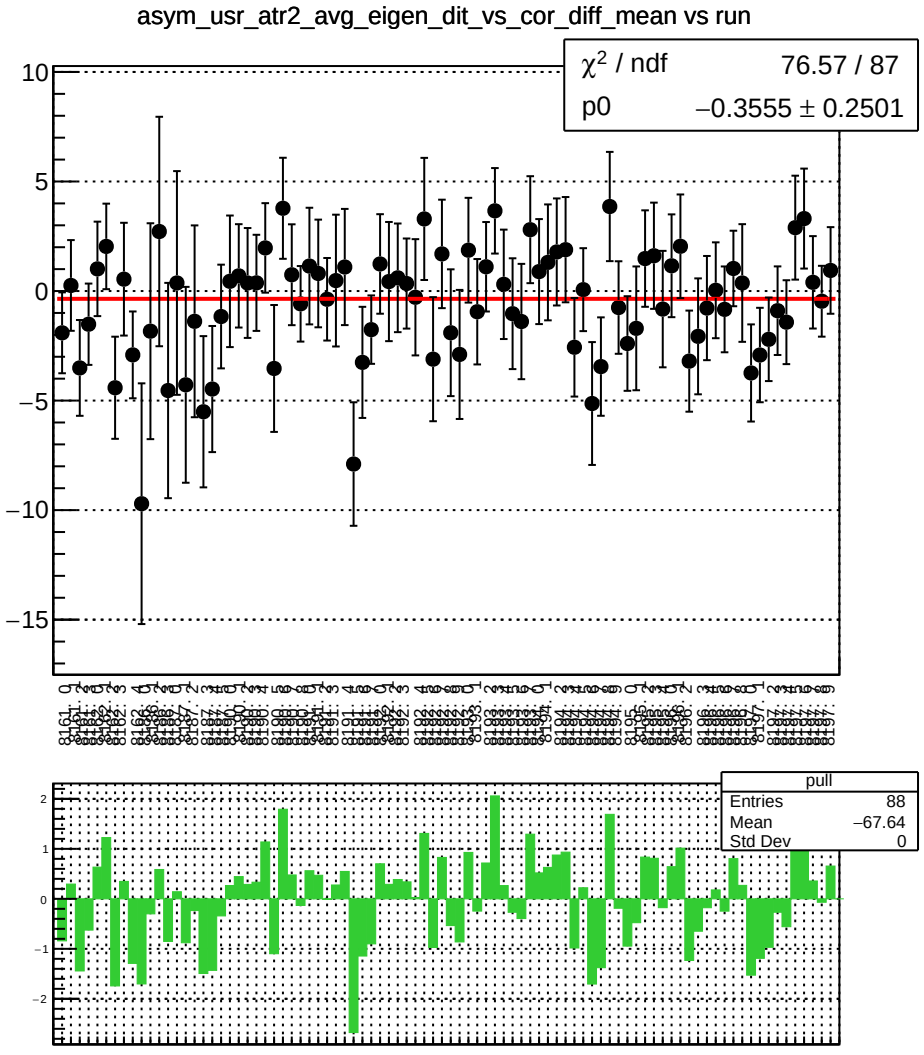

pull1D
Entries 88
Mean −0.03139
Std Dev 0.9323

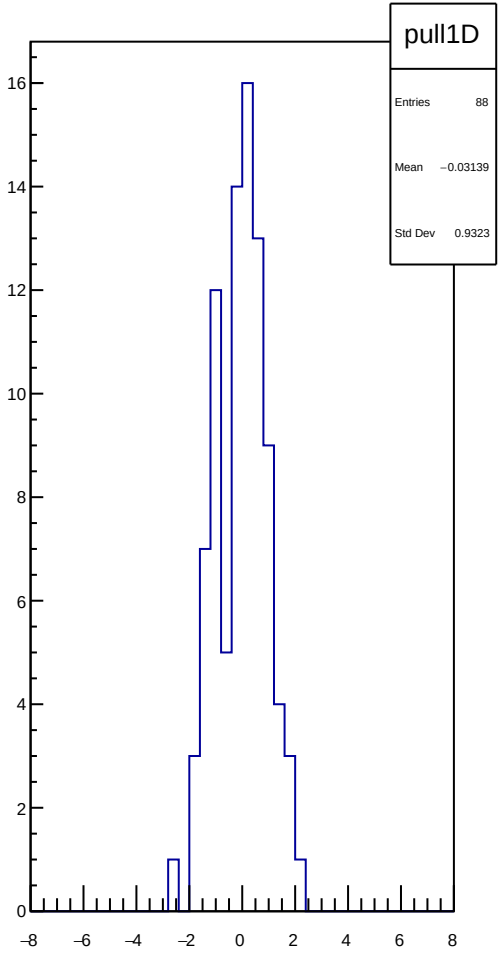

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.853e+04 / 87
p0 223.6 ± 0.1768
550
500
450
400
350
300
250
200
150

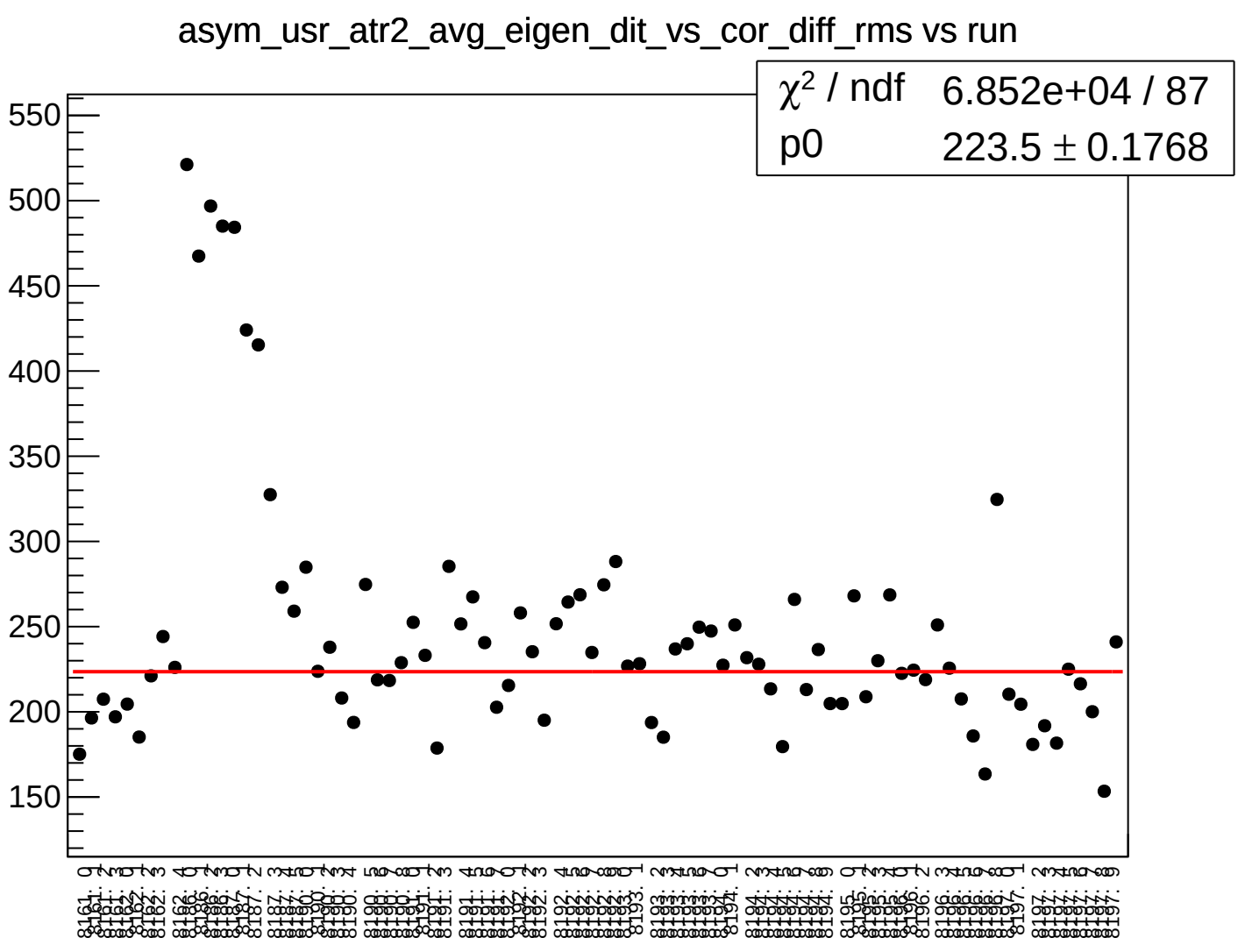

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.49 / 87
p0 −1.659e−06 ± 2.271e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 88
Mean 3.81
Std Dev 0
3
2
1
0
−1
−2

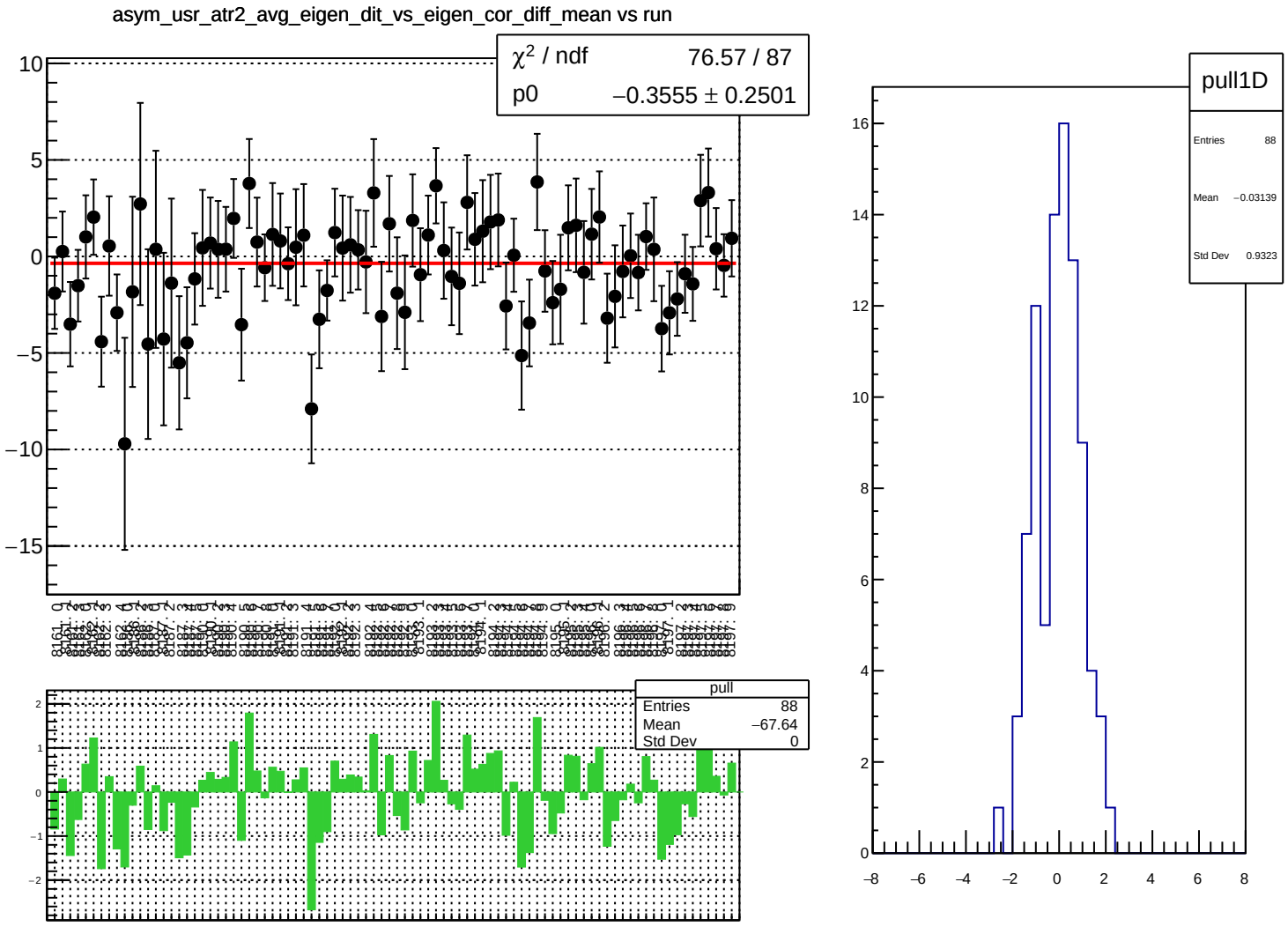

pull1D
Entries 88
Mean 0.01251
Std Dev 0.9855
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

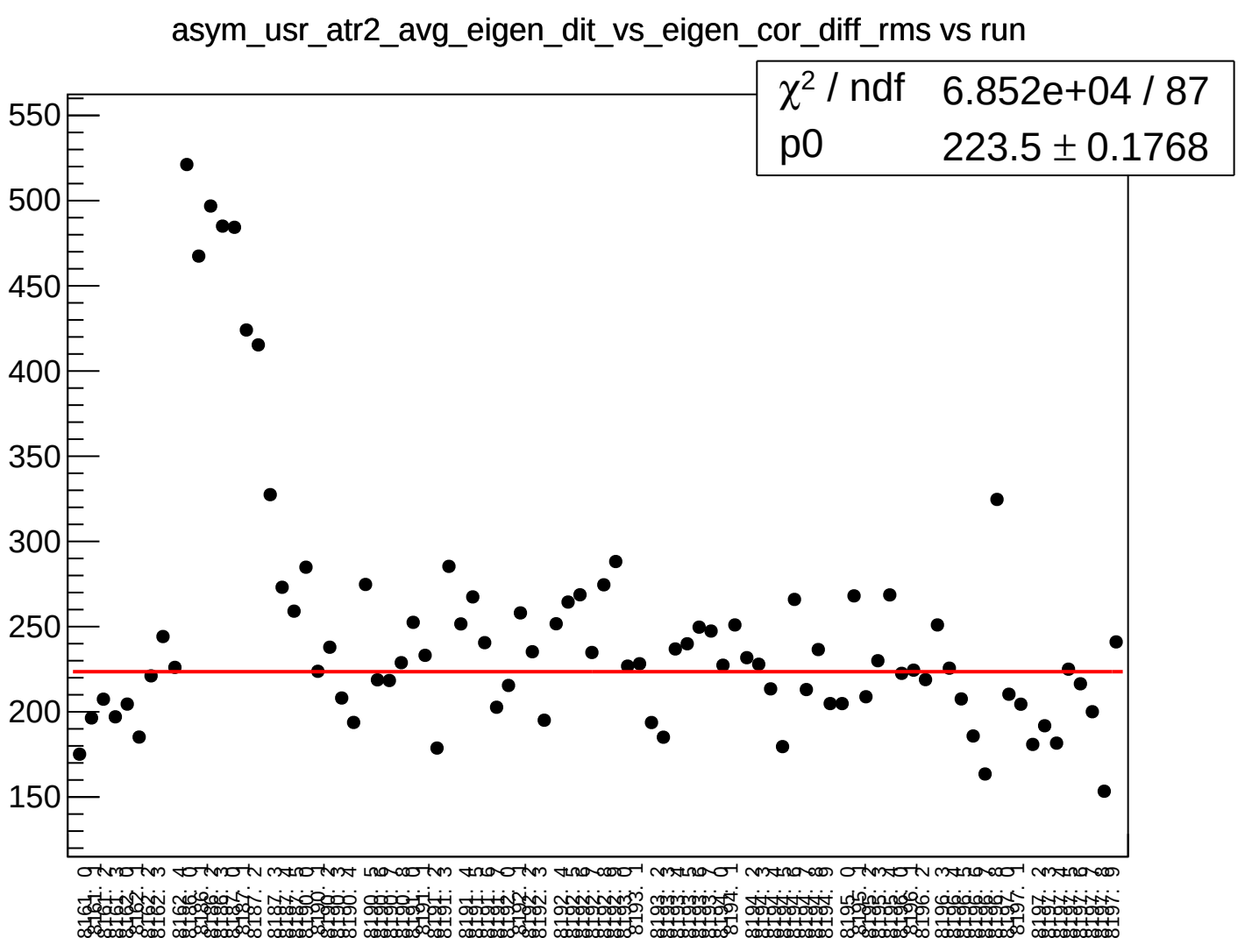

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.903e+04 / 87
p0 0.0203 ± 1.606e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

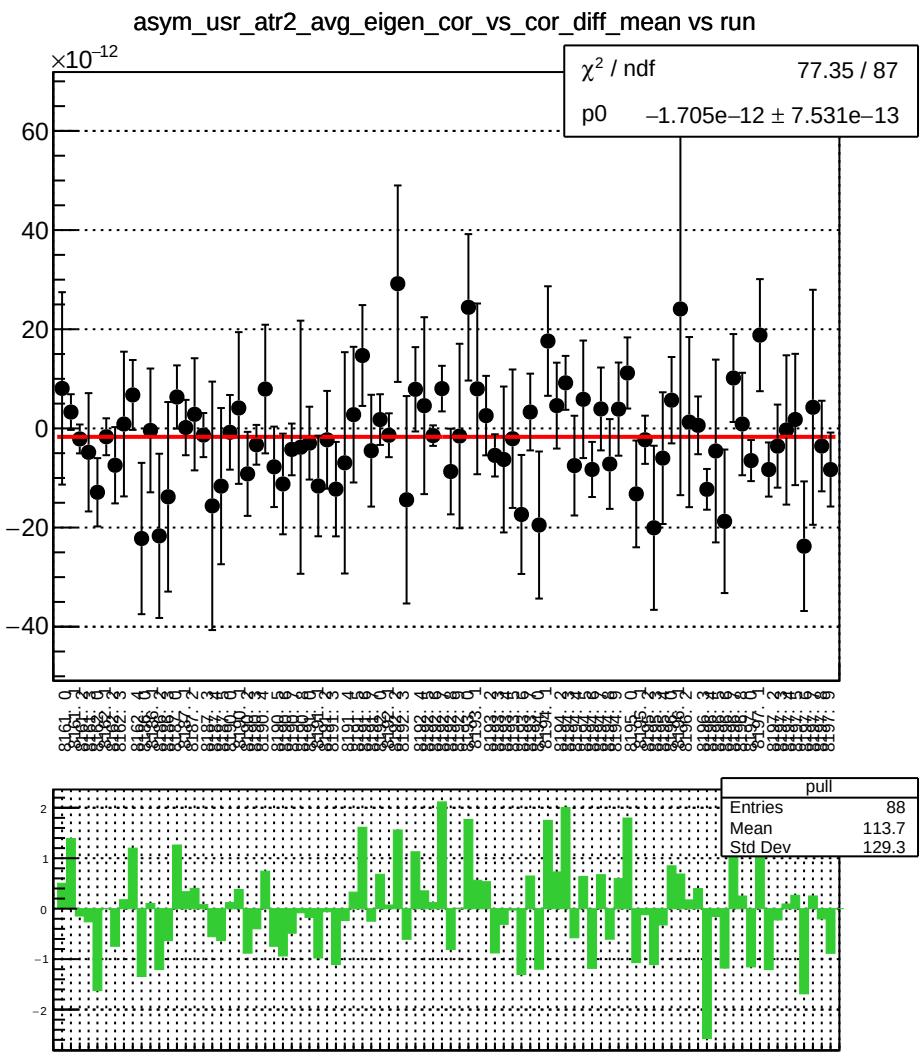

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.57 / 87
p0 −0.3555 ± 0.2501
pull
Entries 88
Mean −67.64
Std Dev 0

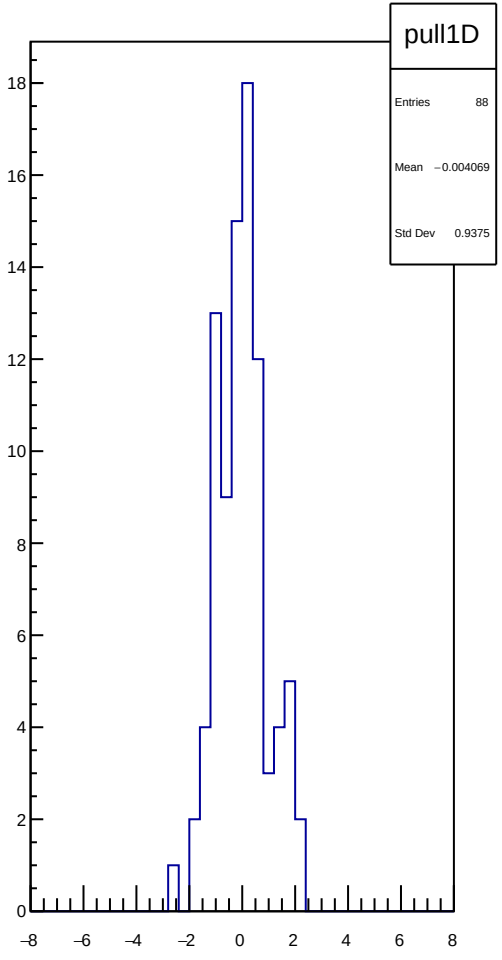

pull1D
Entries 88
Mean −0.03139
Std Dev 0.9323

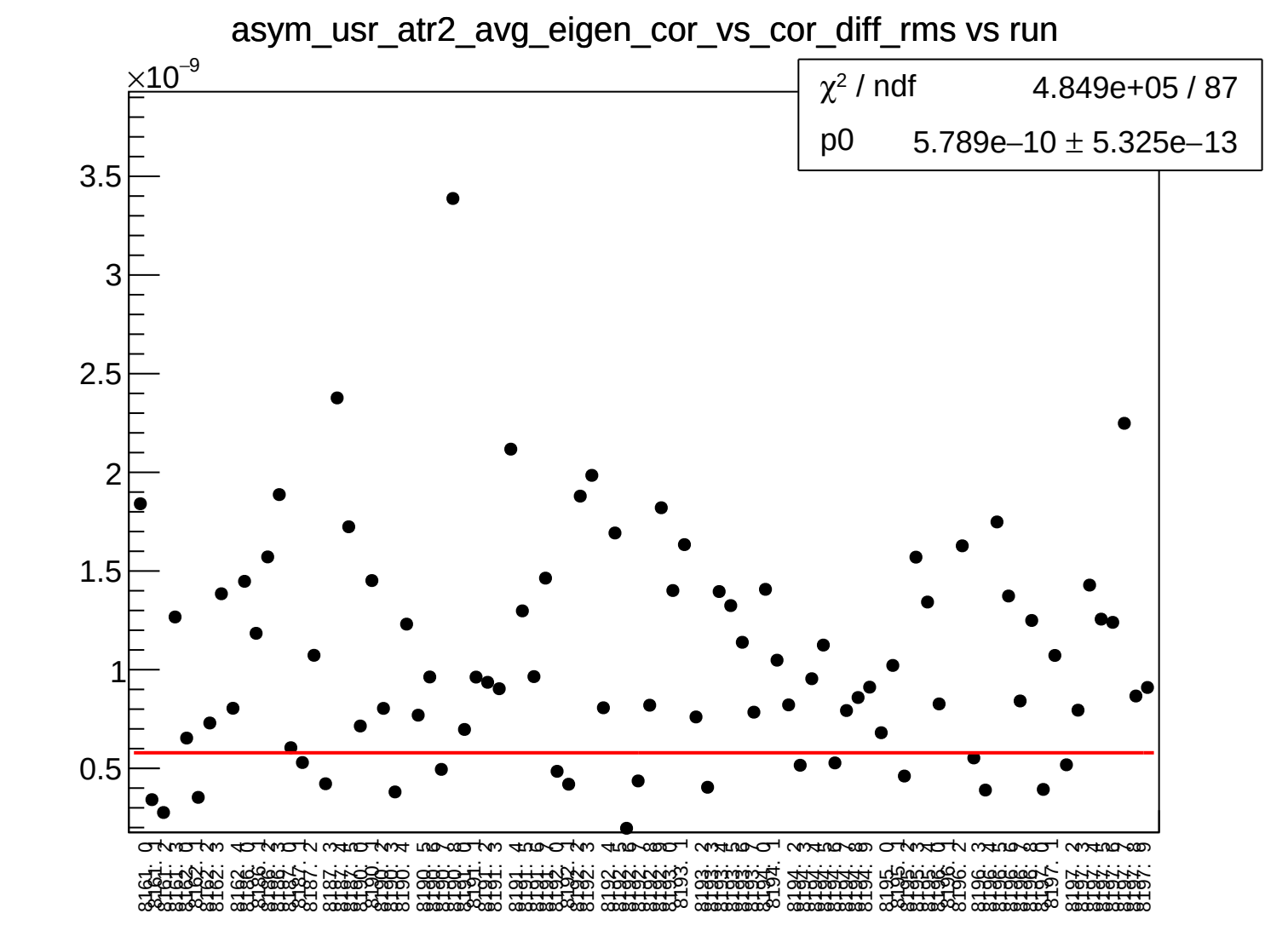

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.852e+04 / 87
p0 223.5 ± 0.1768
550
500
450
400
350
300
250
200
150

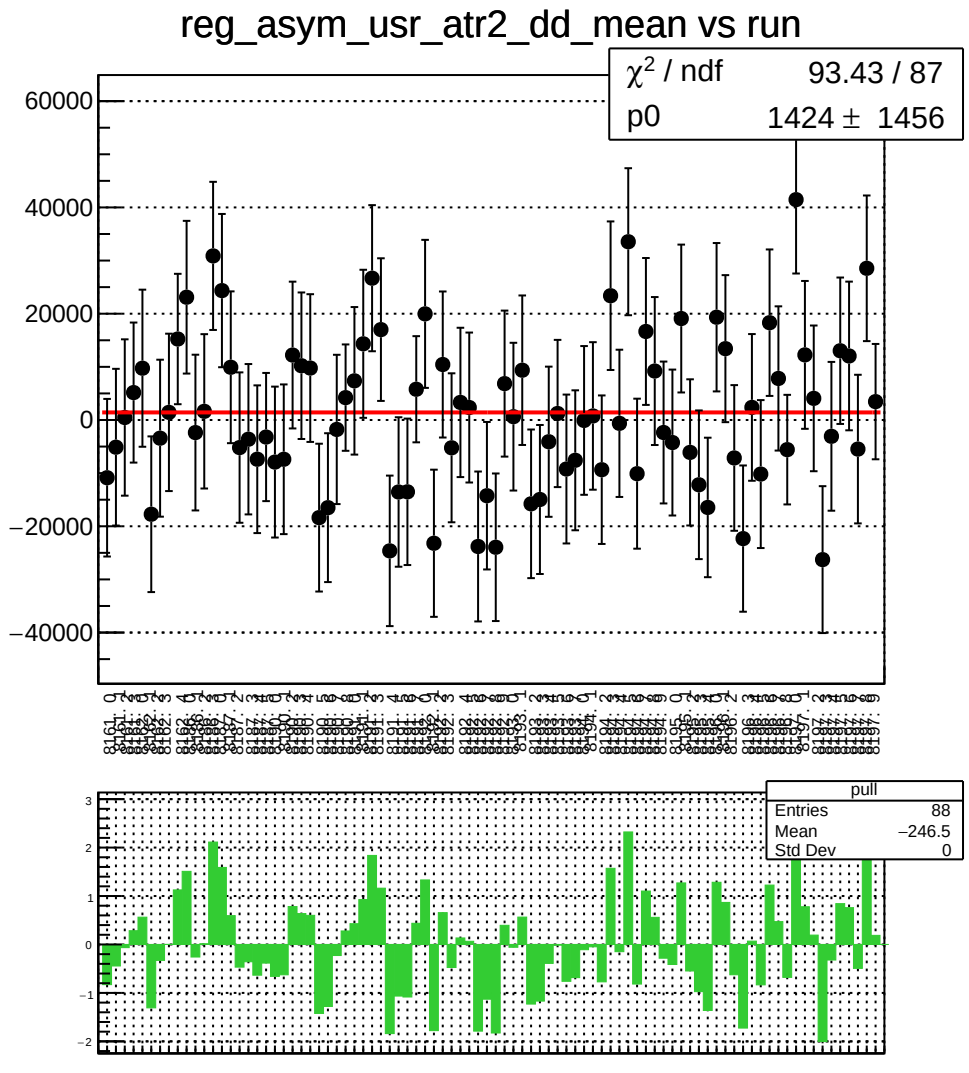

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.57 / 87
p0 −0.3555 ± 0.2501
pull
Entries 88
Mean −67.64
Std Dev 0
pull1D
Entries 88
Mean −0.03139
Std Dev 0.9323

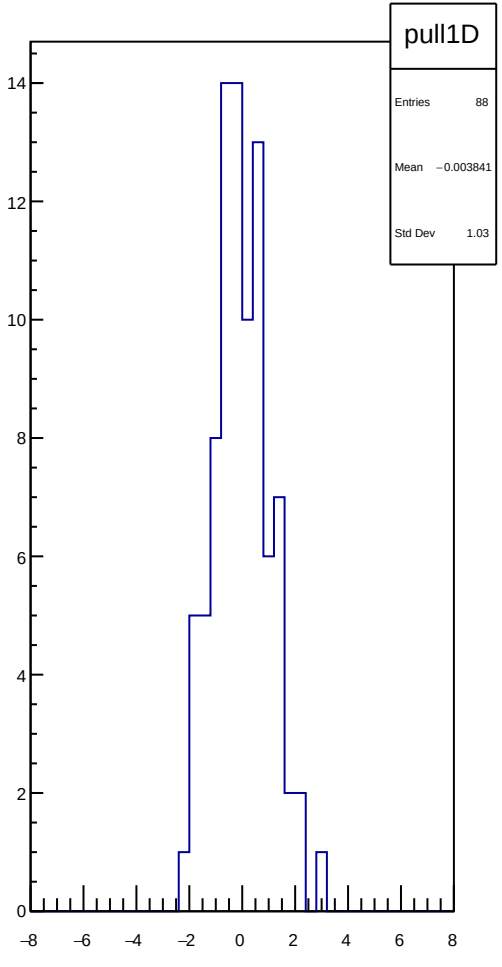

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.852e+04 / 87
p0 223.5 ± 0.1768
550
500
450
400
350
300
250
200
150

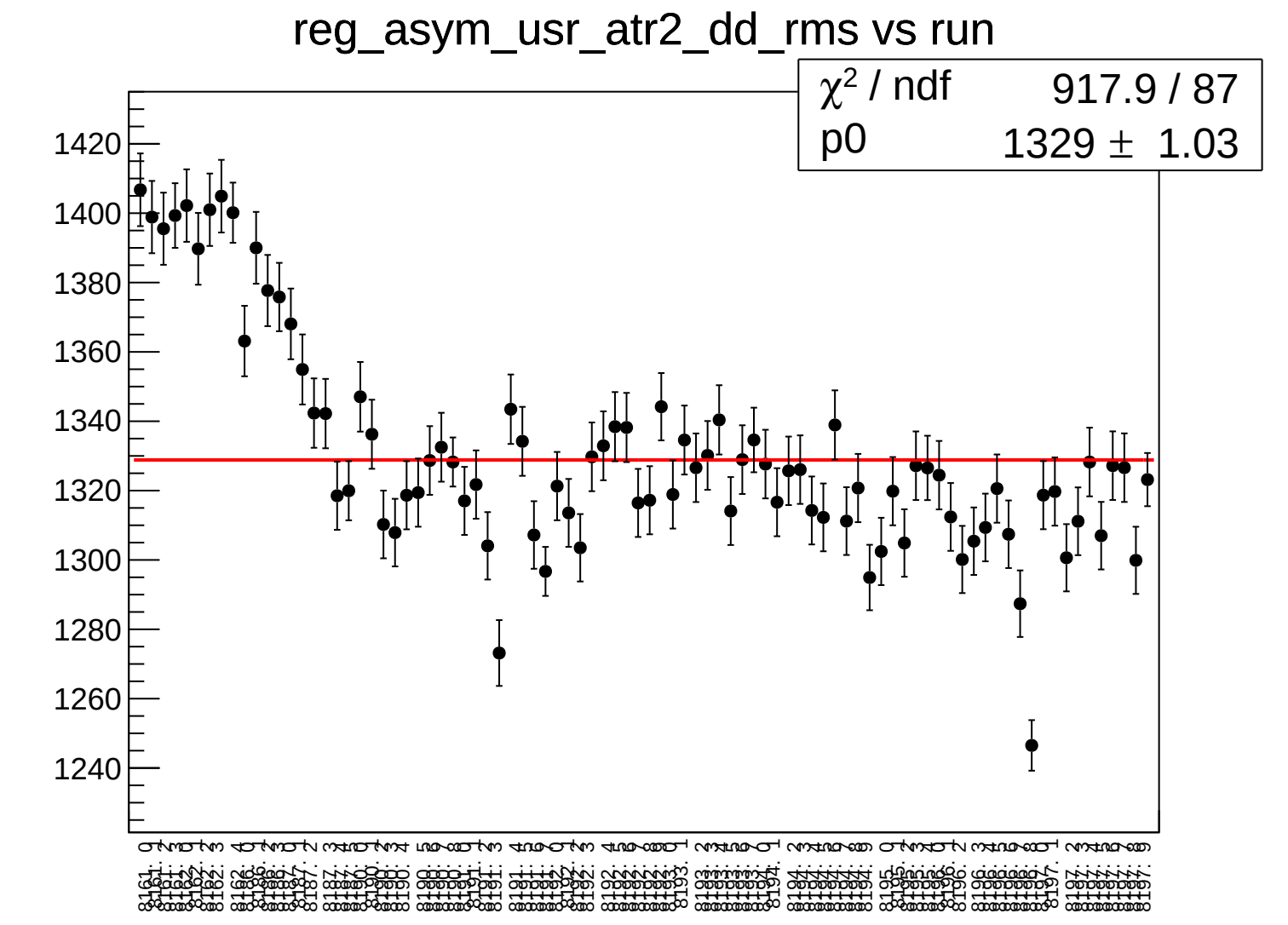

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 77.35 / 87
p0 −1.705e−12 ± 7.531e−13
pull
Entries 88
Mean 113.7
Std Dev 129.3

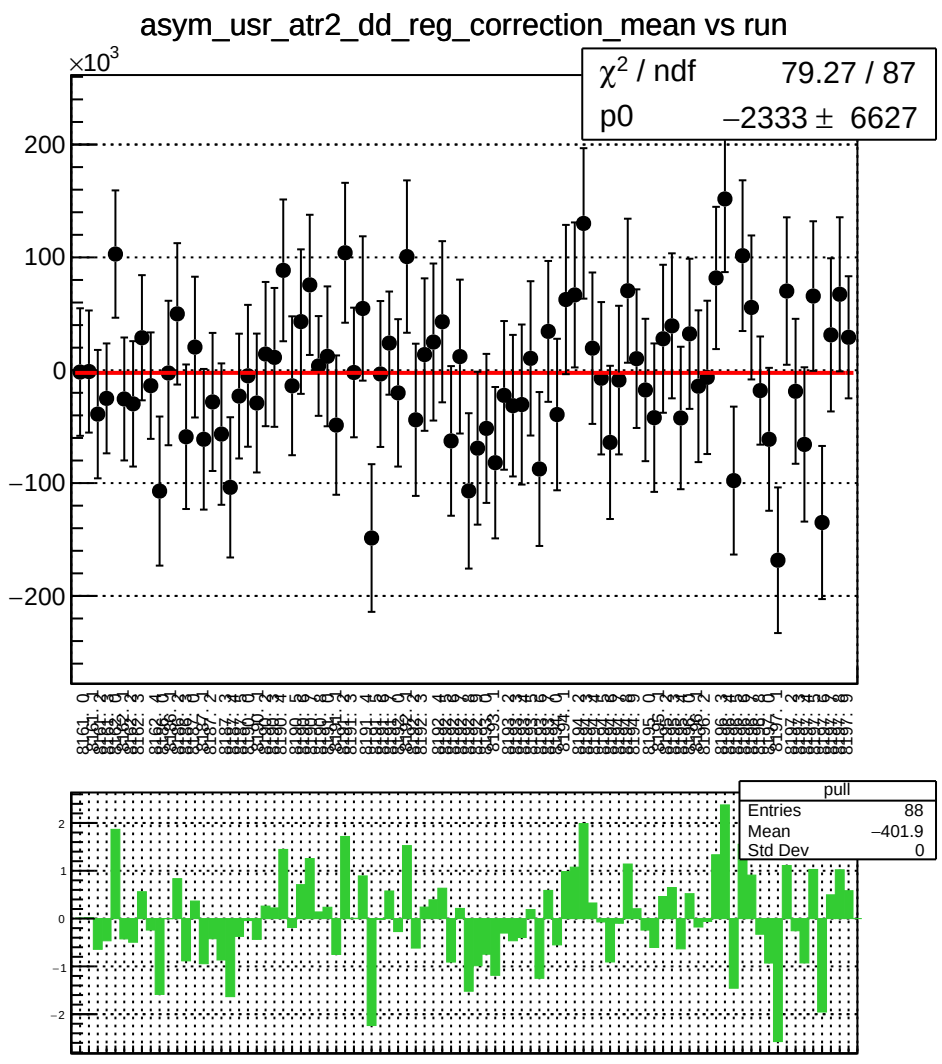

pull1D
Entries 88
Mean −0.004069
Std Dev 0.9375

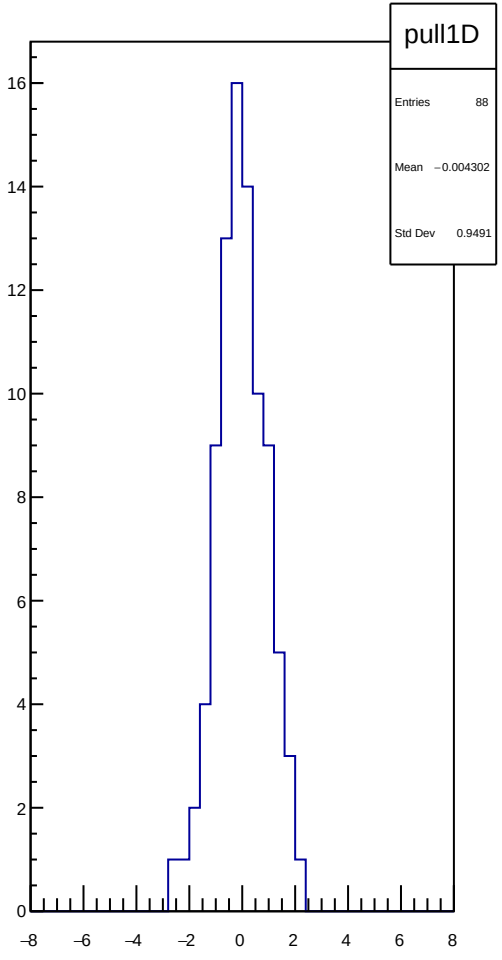

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.849e+05 / 87
p0 5.789e−10 ± 5.325e−13
3.5
3
2.5
2
1.5
1
0.5

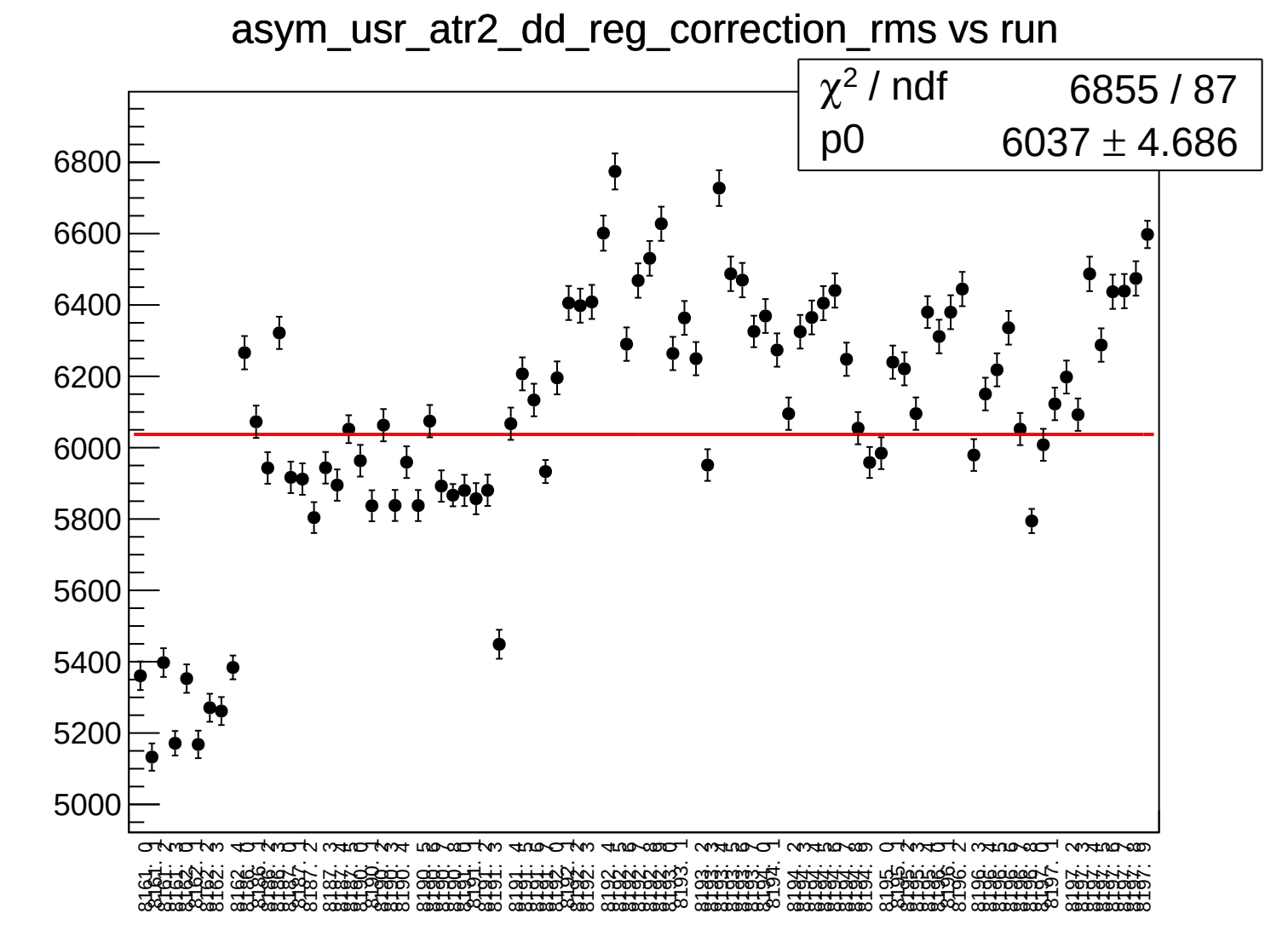

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 93.43 / 87
p0 1424 ± 1456
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −246.5
Std Dev 0
3
2
1
0
−1
−2

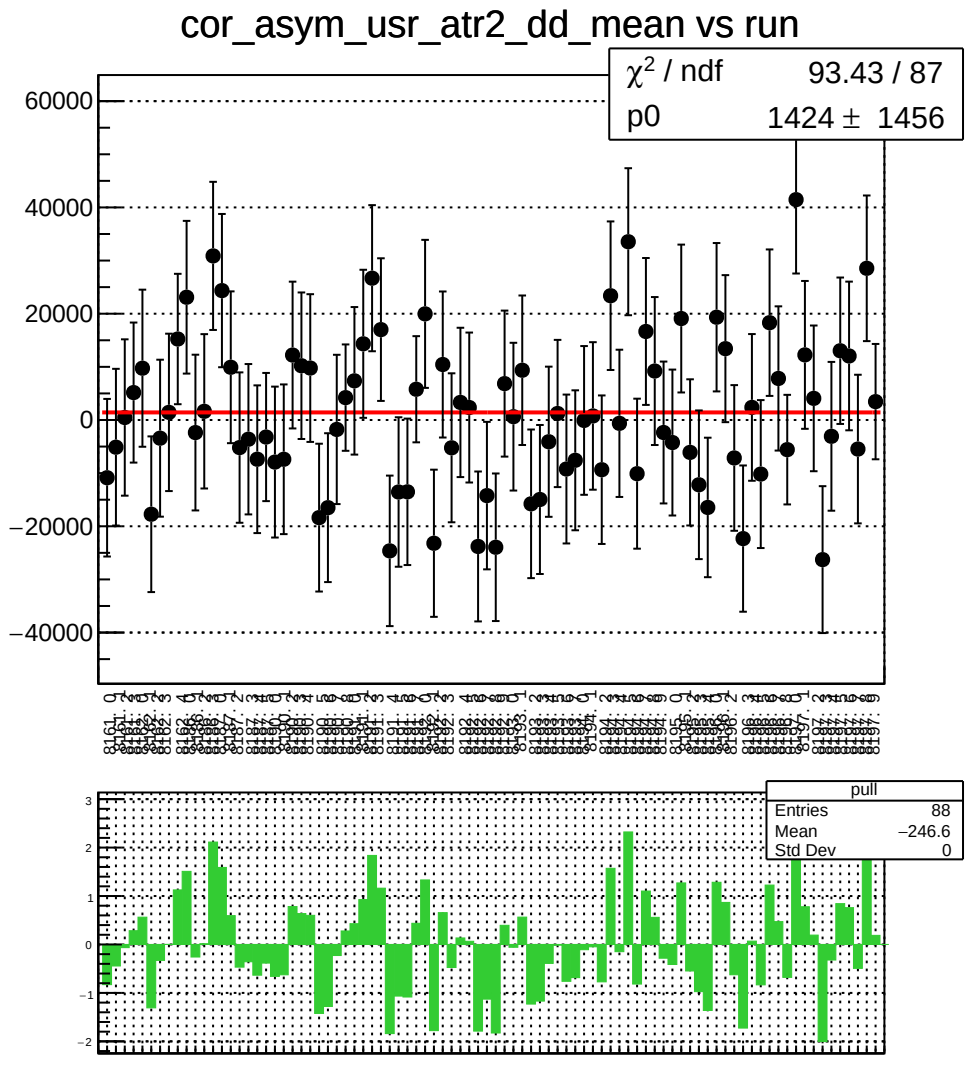

pull1D
Entries 88
Mean −0.003841
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

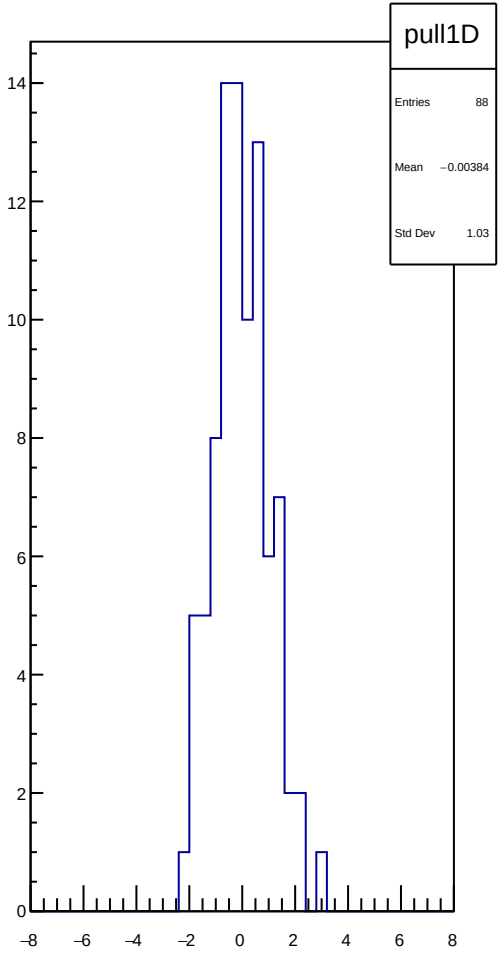

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 917.9 / 87
p0 1329 ± 1.03
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

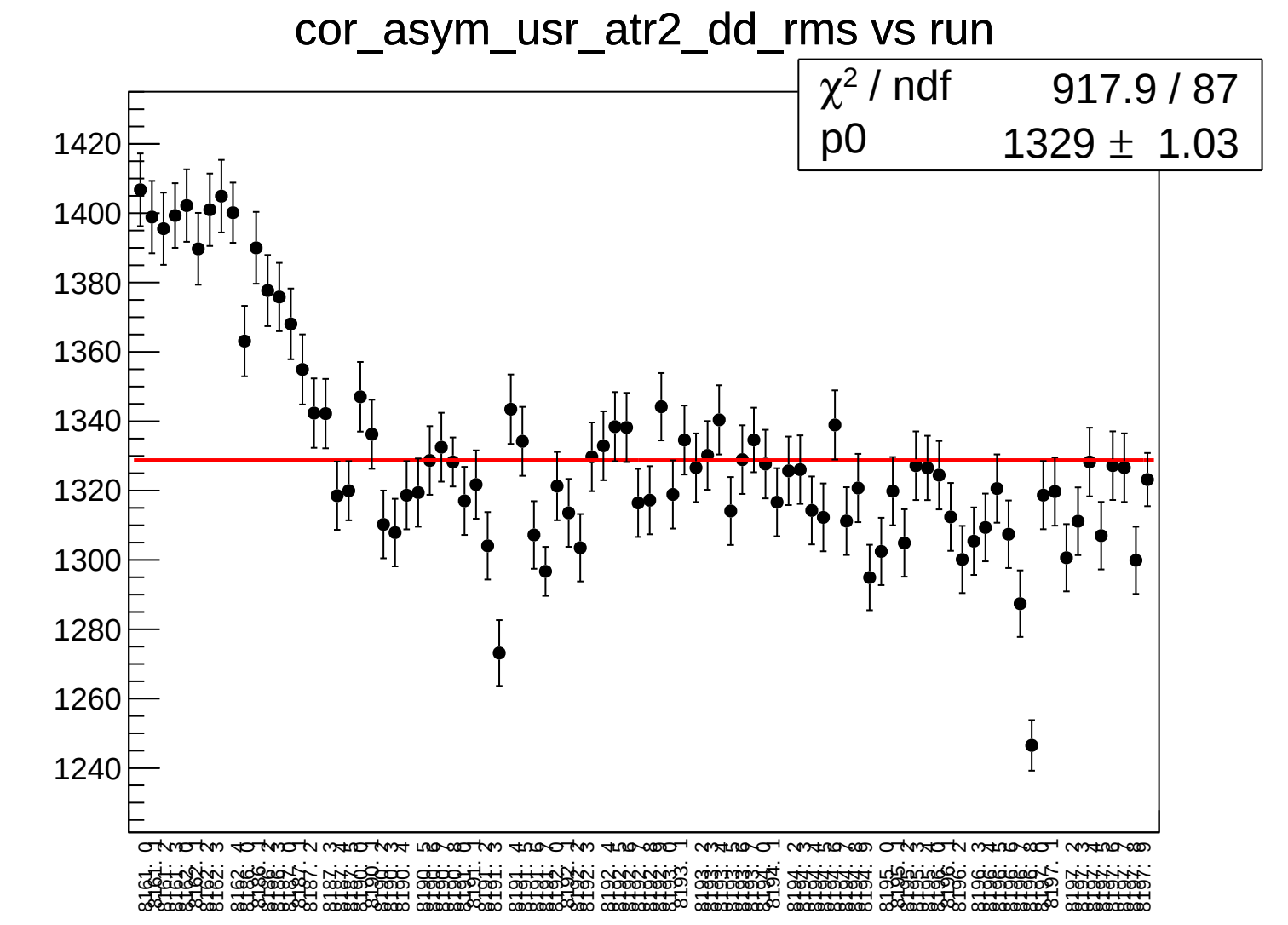

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.27 / 87
p0 −2333 ± 6627
200
100
0
−100
−200
pull
Entries 88
Mean −401.9
Std Dev 0
2
1
0
−1
−2

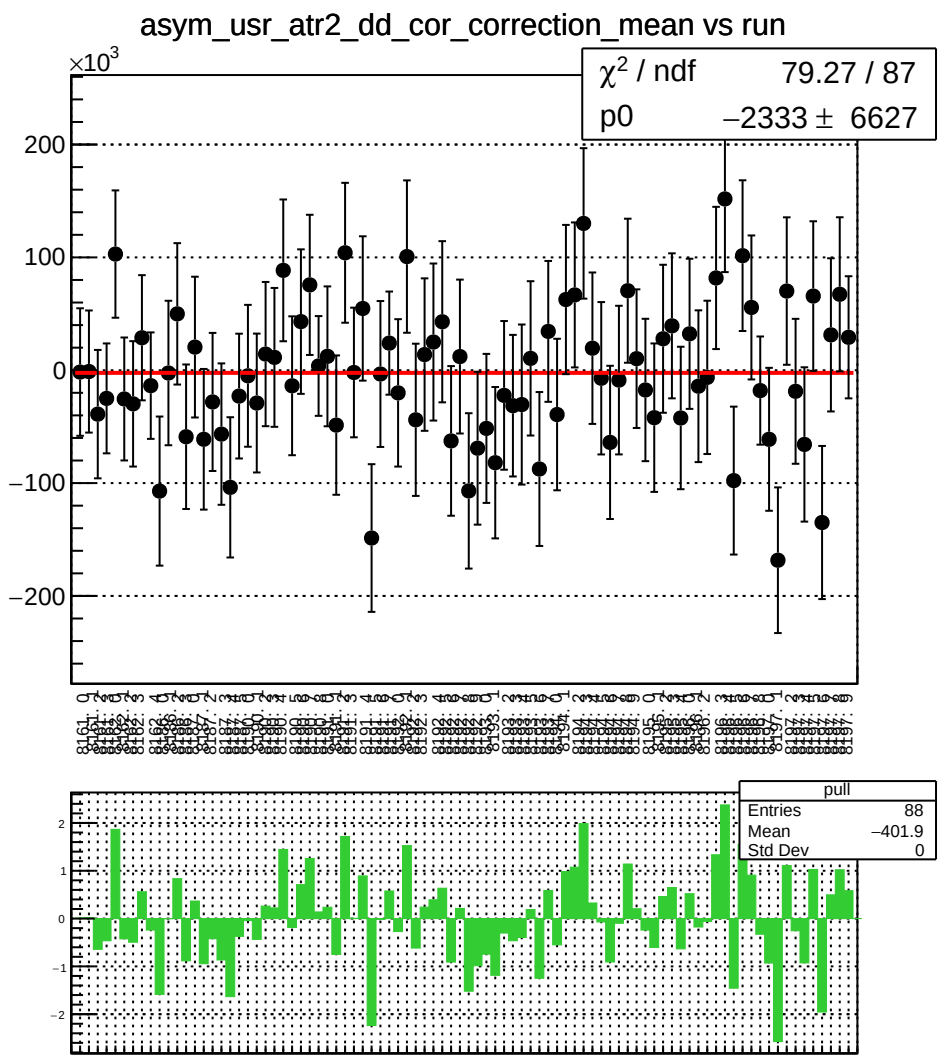

pull1D
Entries 88
Mean −0.004302
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

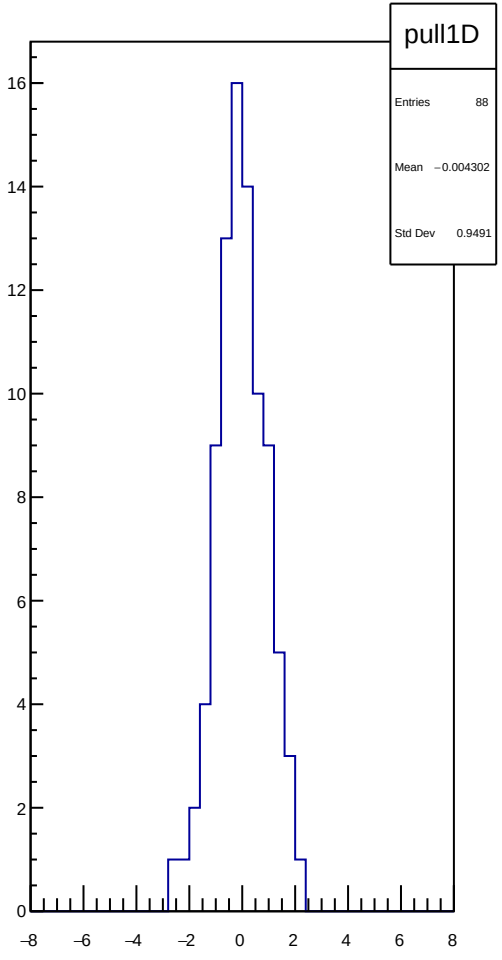

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 6855 / 87
p0 6037 ± 4.686
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

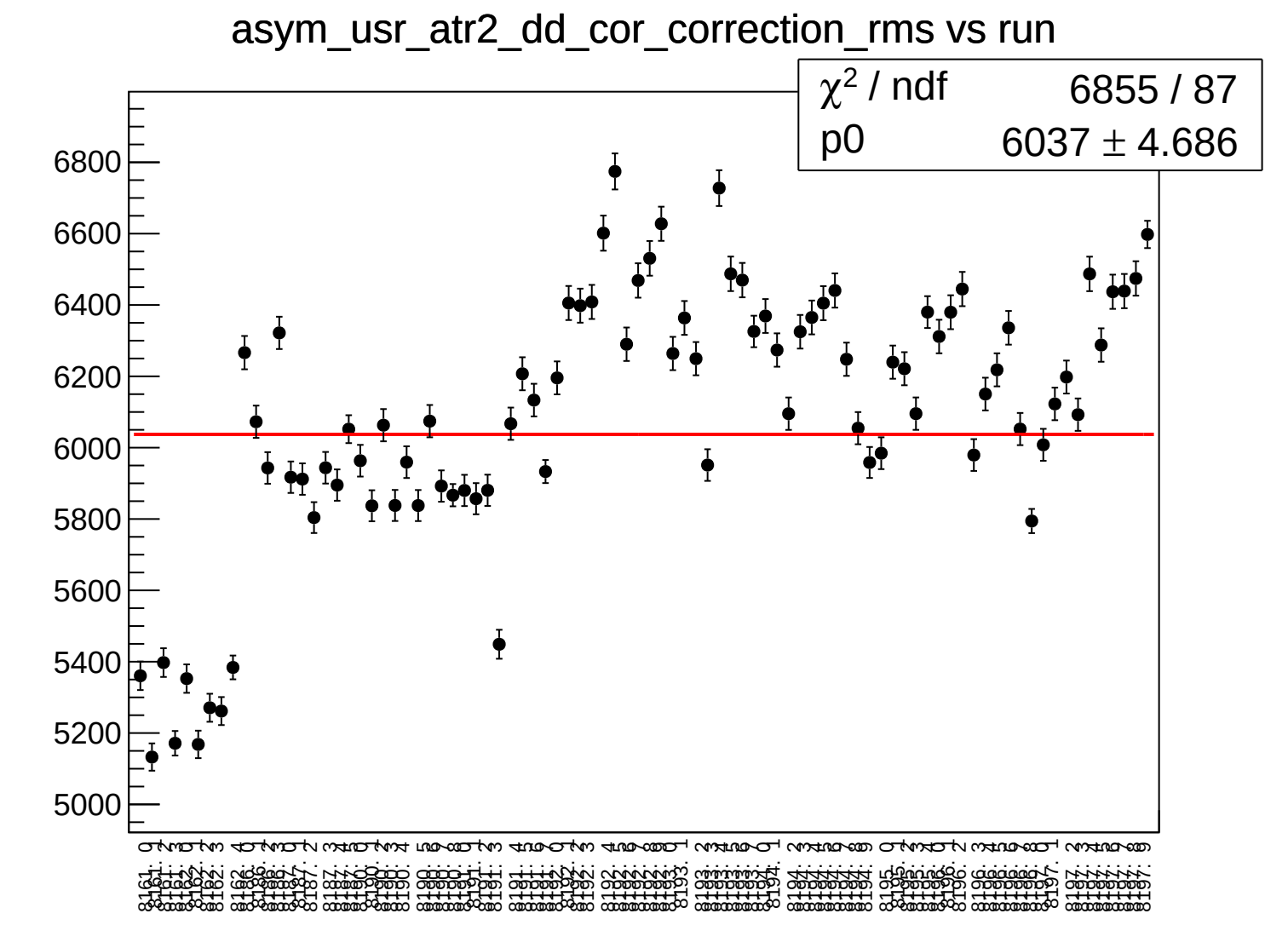

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 93.43 / 87
p0 1424 ± 1456
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −246.6
Std Dev 0
3
2
1
0
−1
−2

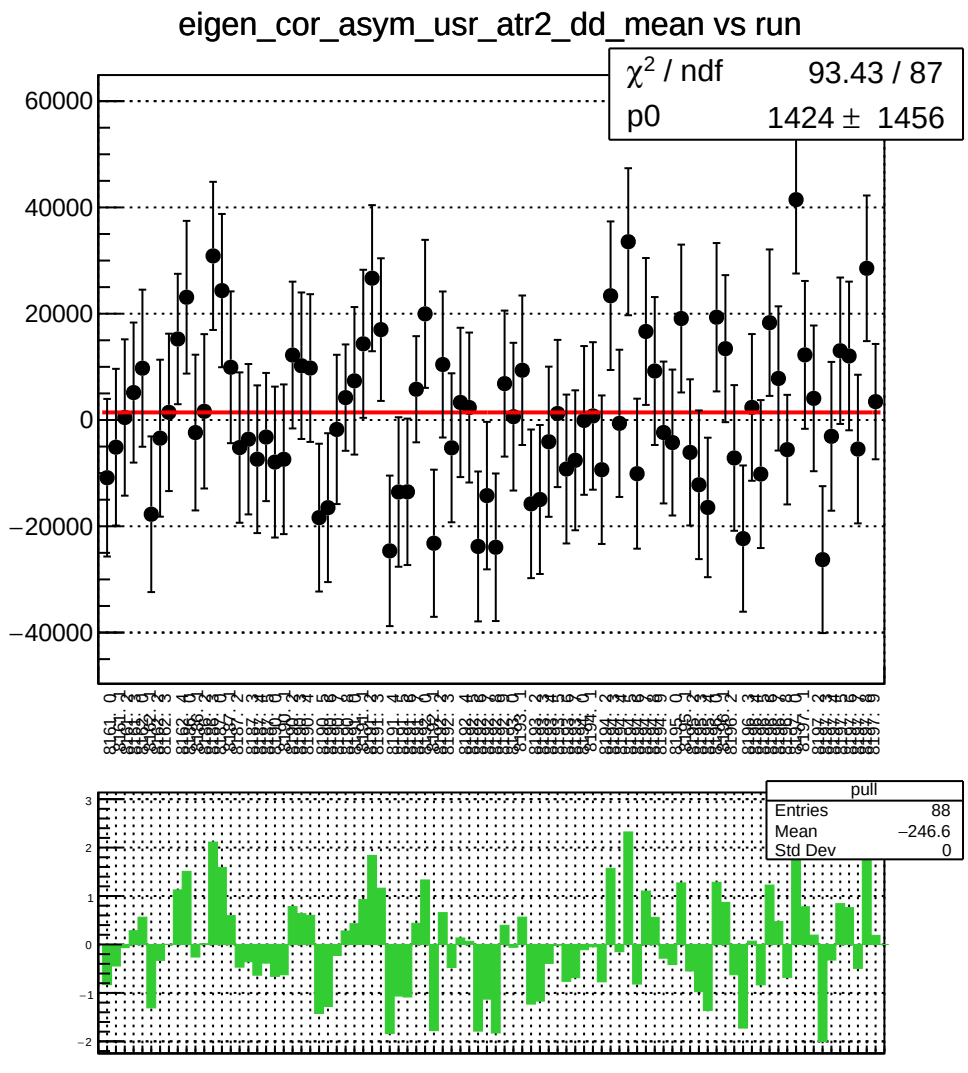

pull1D
Entries 88
Mean −0.00384
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

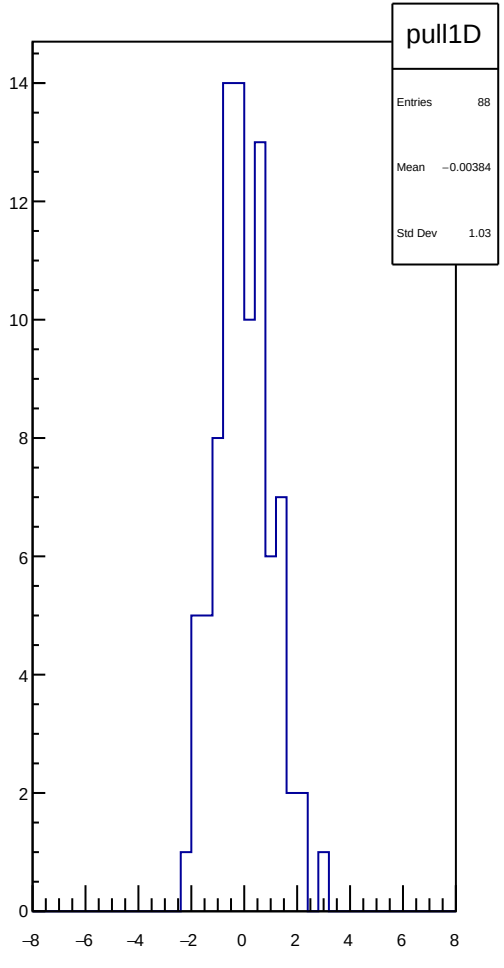

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 917.9 / 87
p0 1329 ± 1.03
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

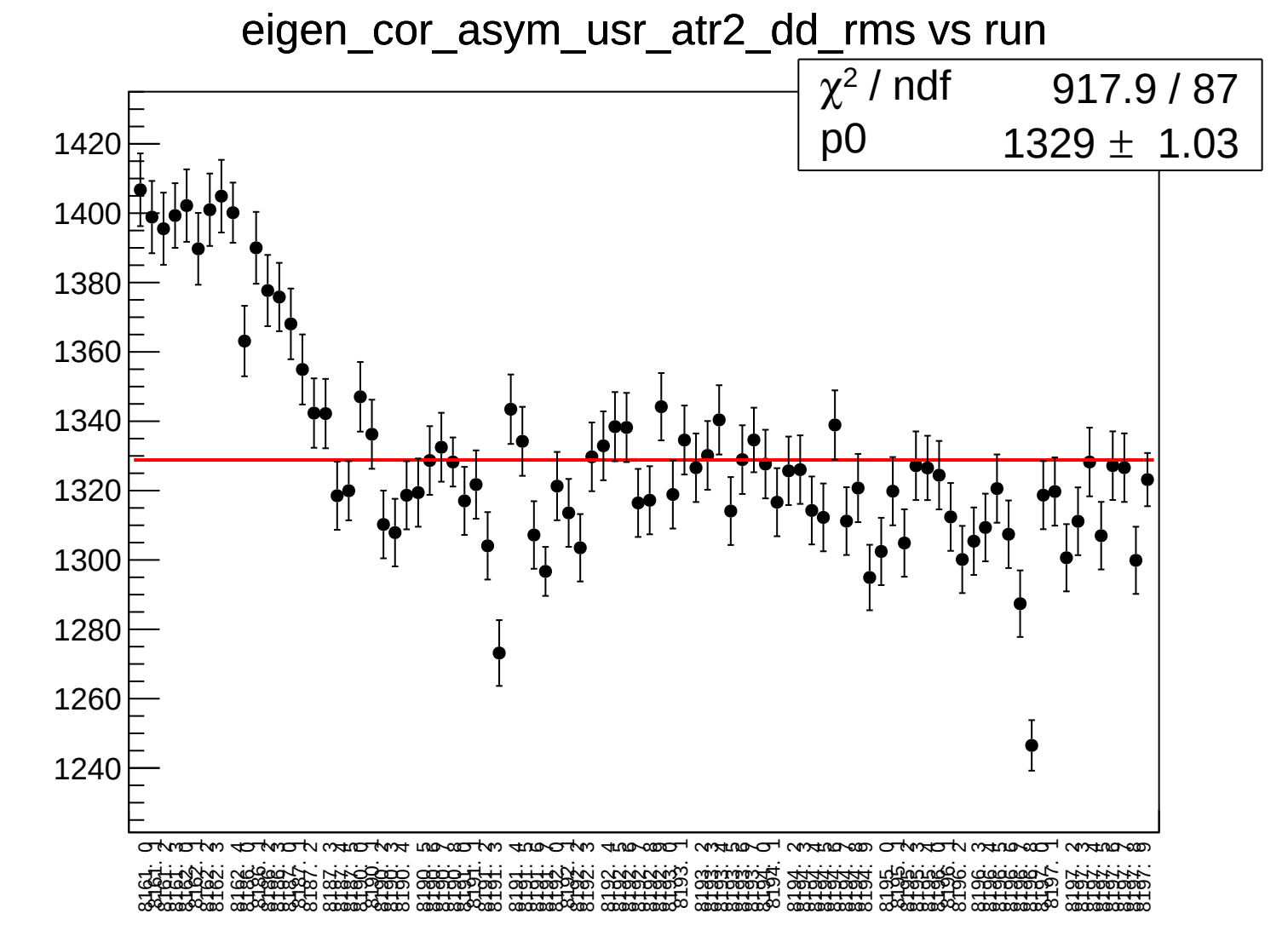

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 79.27 / 87
p0 −2333 ± 6627
200
100
0
−100
−200
pull
Entries 88
Mean −401.9
Std Dev 0
2
1
0
−1
−2

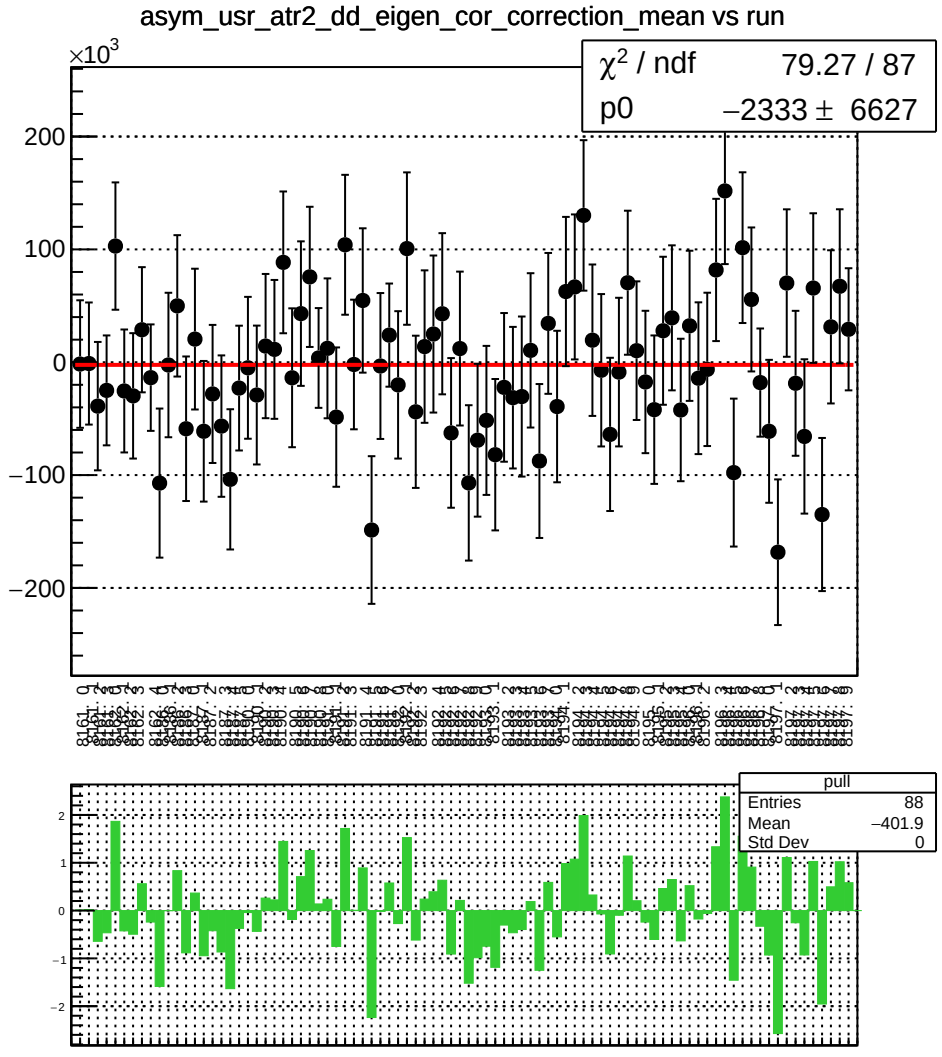

pull1D
Entries 88
Mean −0.004302
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

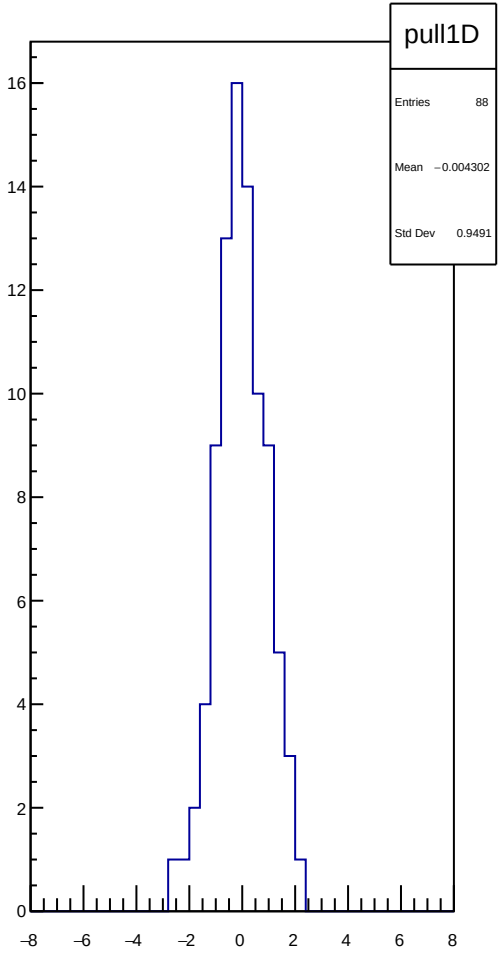

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 6855 / 87
p0 6037 ± 4.686
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

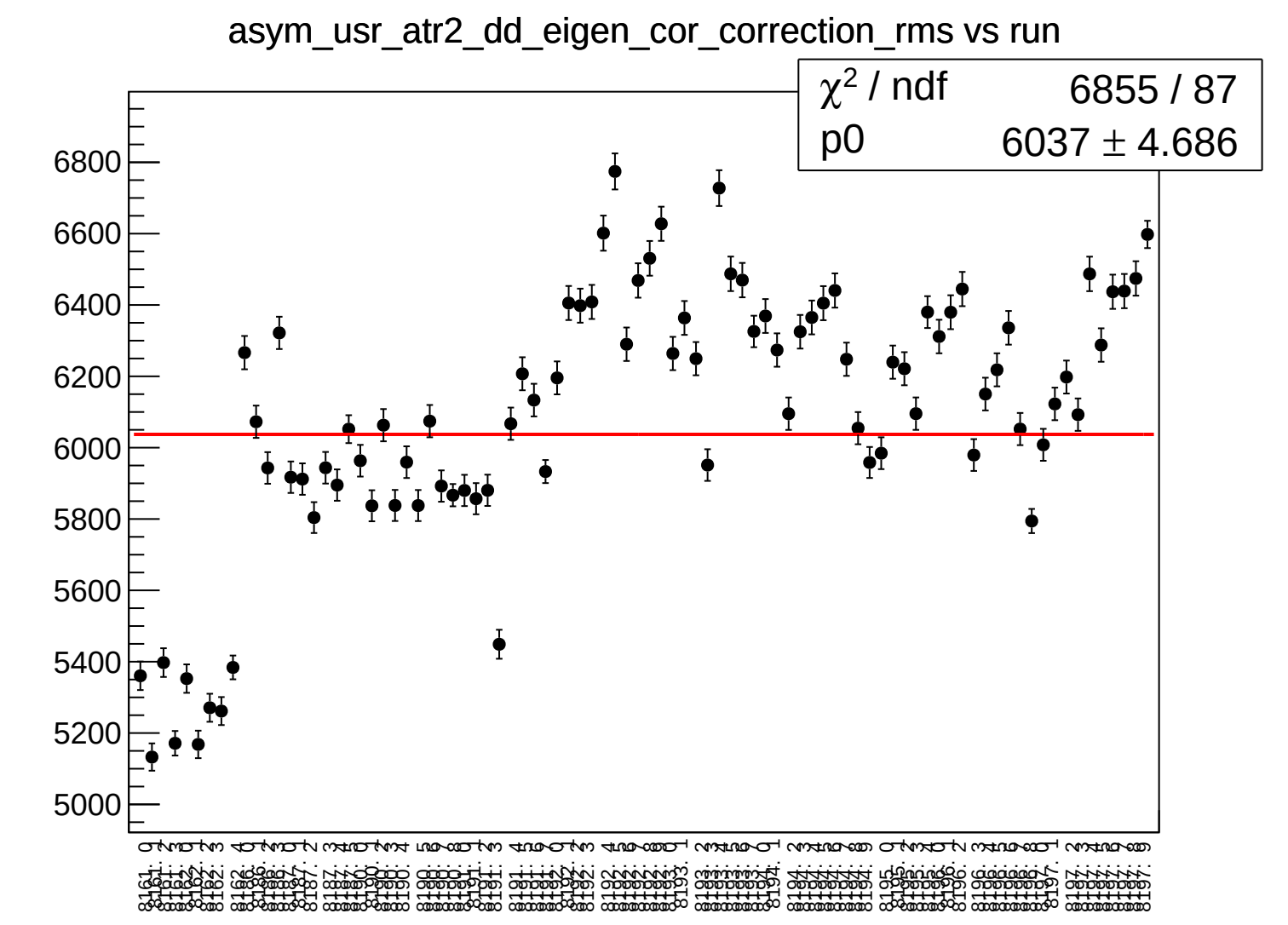

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 93.43 / 87
p0 1424 ± 1456
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −246.6
Std Dev 0
3
2
1
0
−1
−2

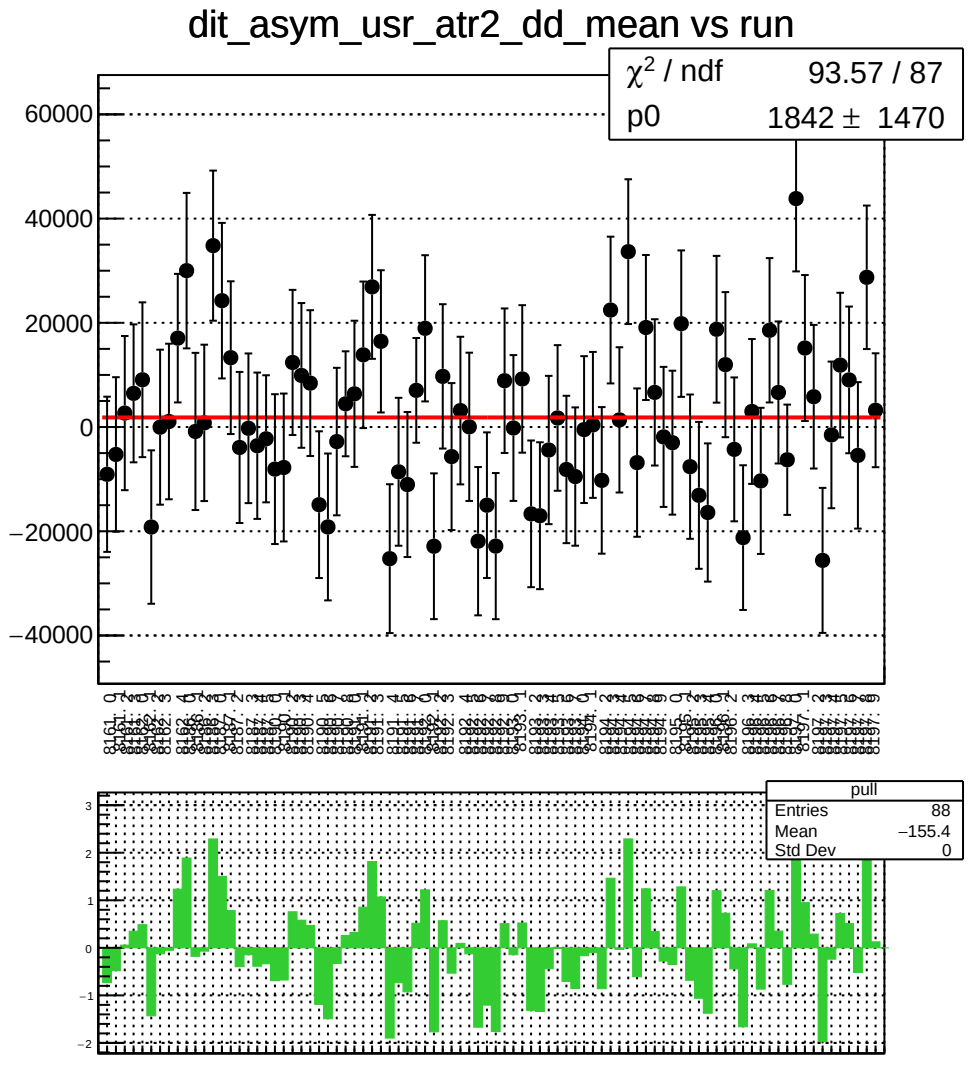

pull1D
Entries 88
Mean −0.00384
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

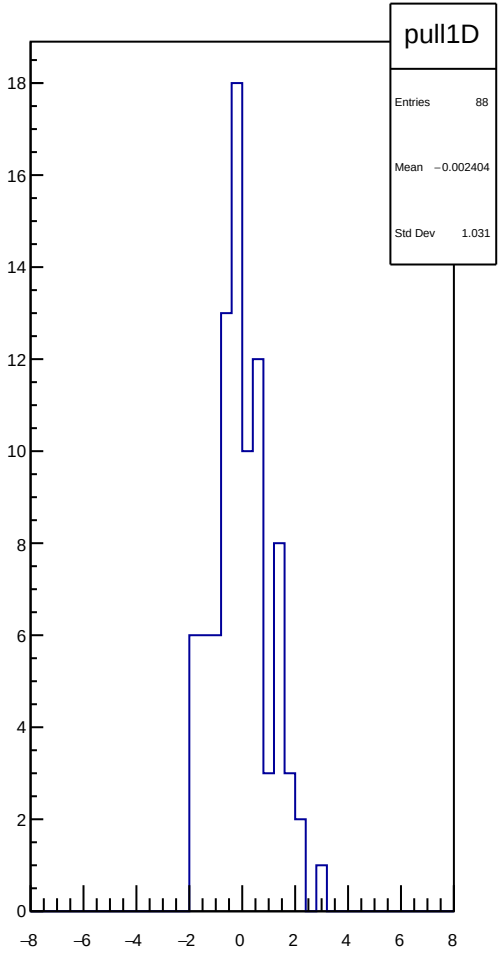

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 917.9 / 87
p0 1329 ± 1.03
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

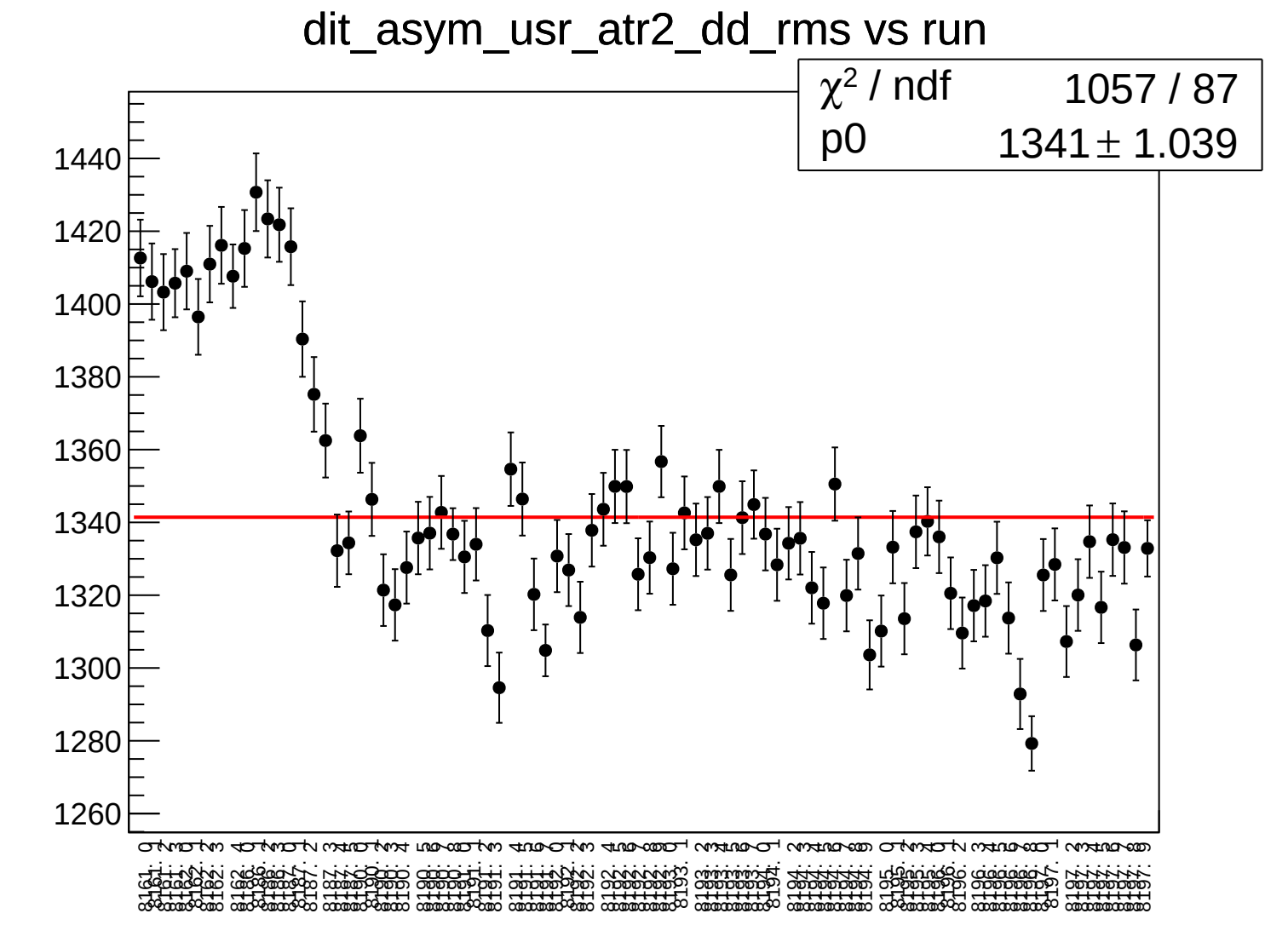

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 79.27 / 87
p0 −2333 ± 6627
200
100
0
−100
−200
pull
Entries 88
Mean −401.9
Std Dev 0
2
1
0
−1
−2

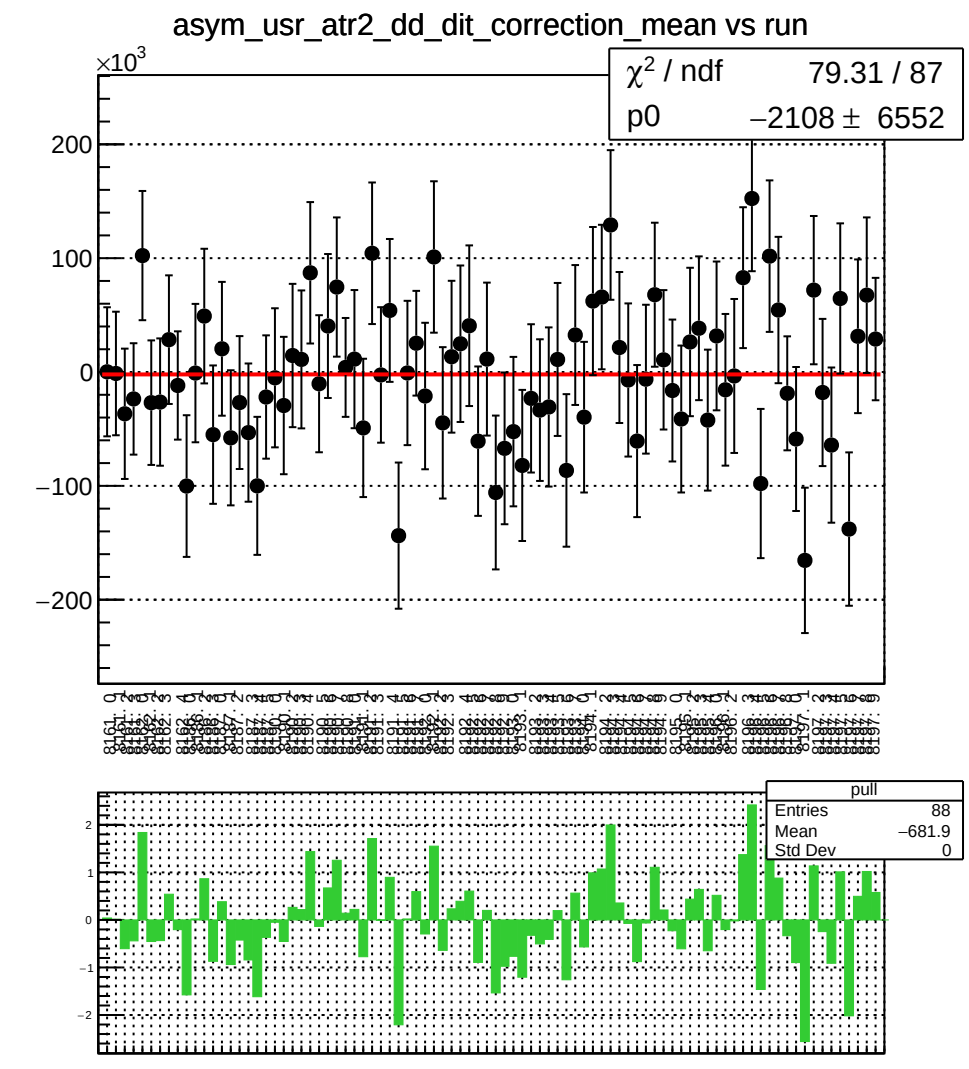

pull1D
Entries 88
Mean −0.004302
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

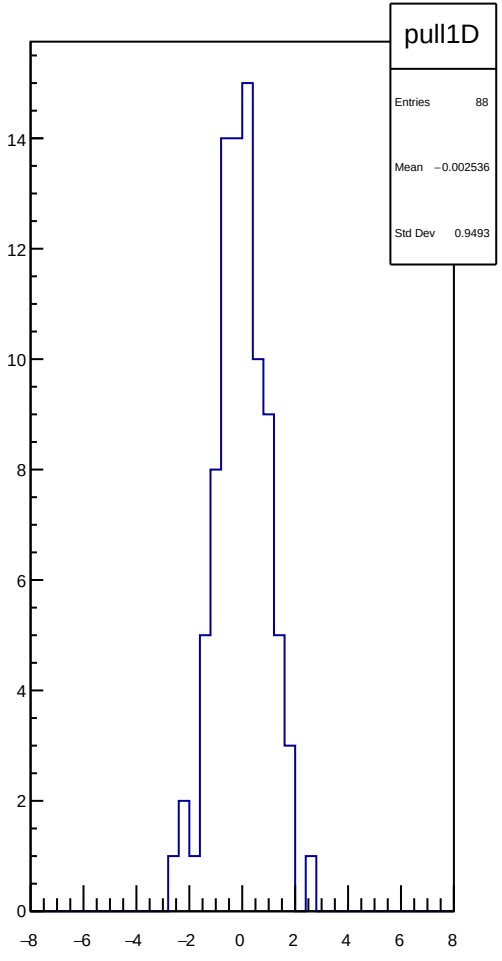

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6855 / 87
p0 6037 ± 4.686
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

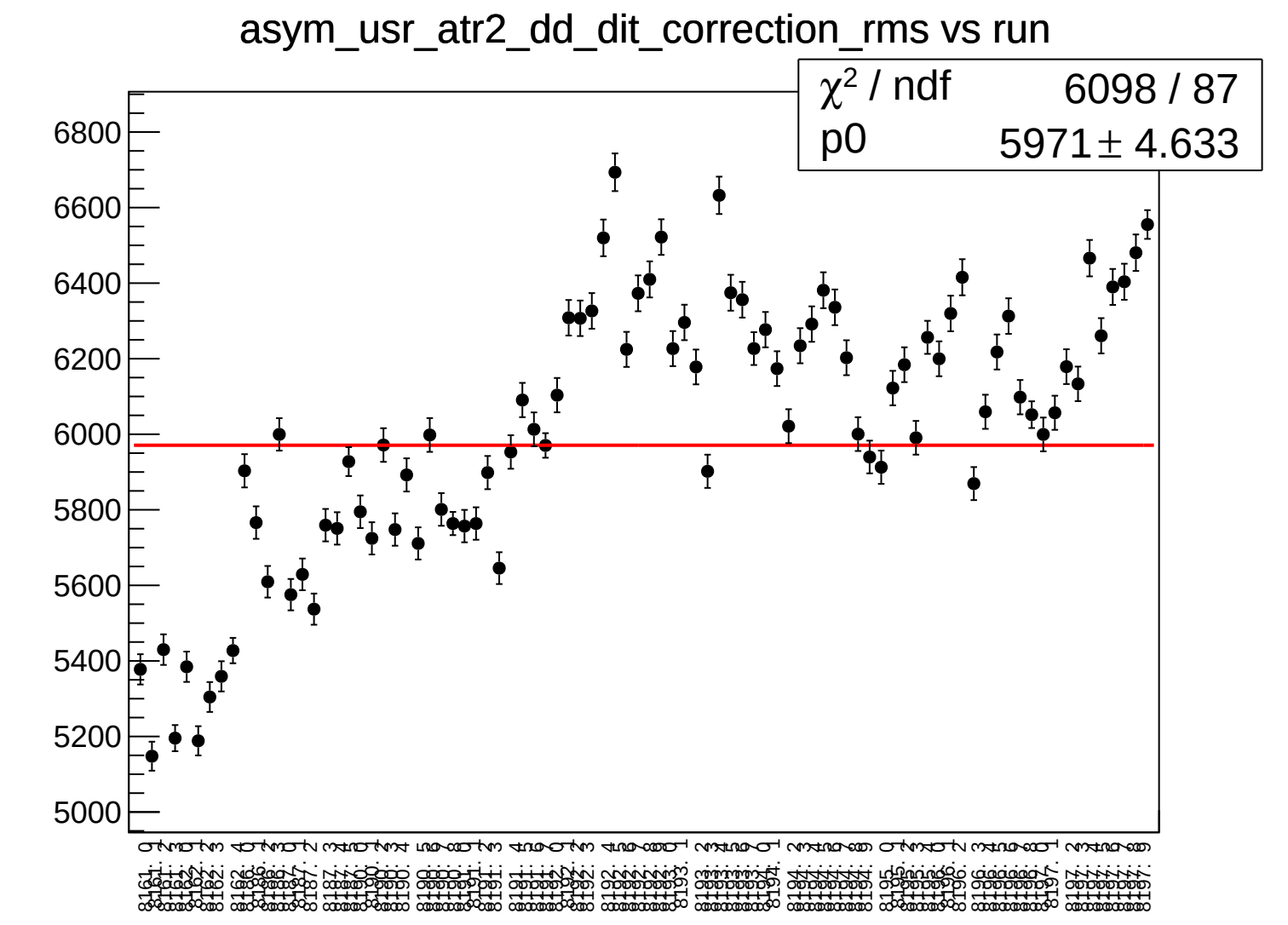

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 93.57 / 87
p0 1842 ± 1470
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −155.4
Std Dev 0
3
2
1
0
−1
−2

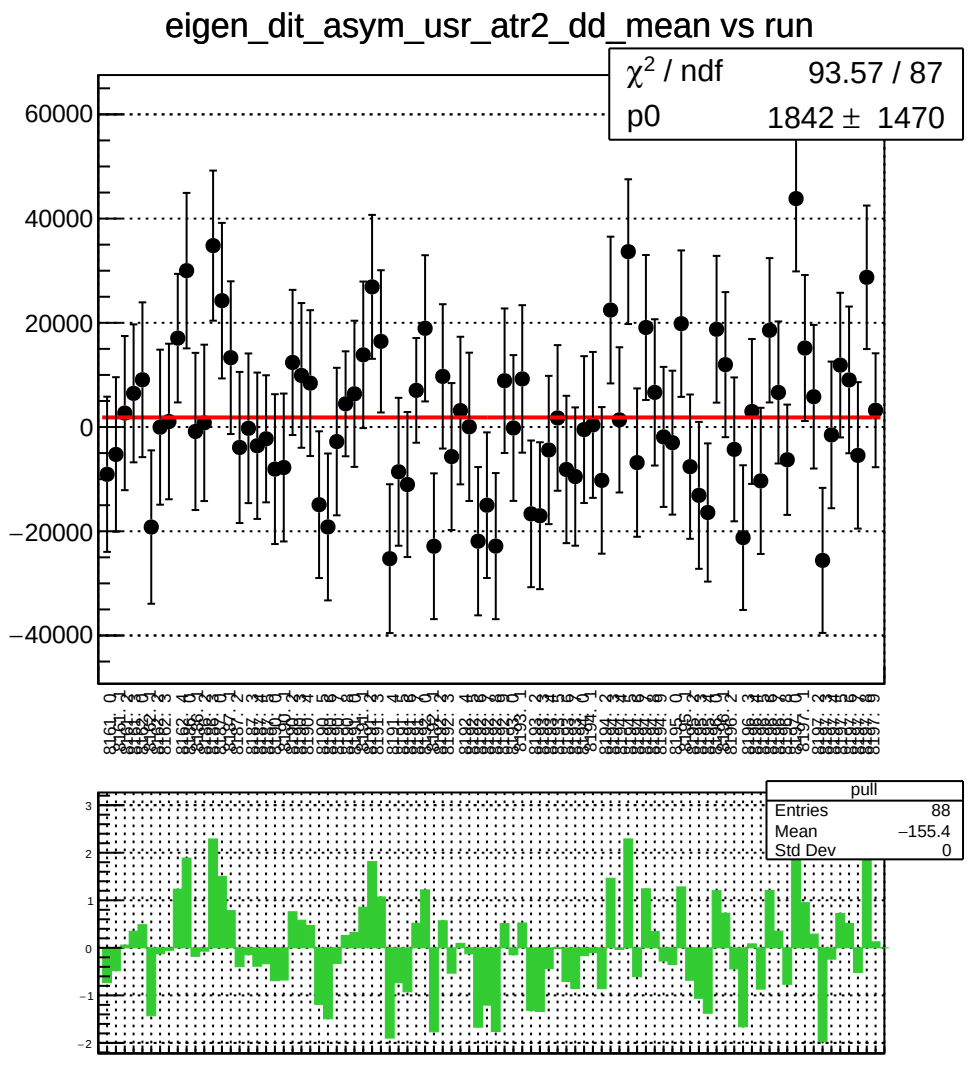

pull1D
Entries 88
Mean −0.002404
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

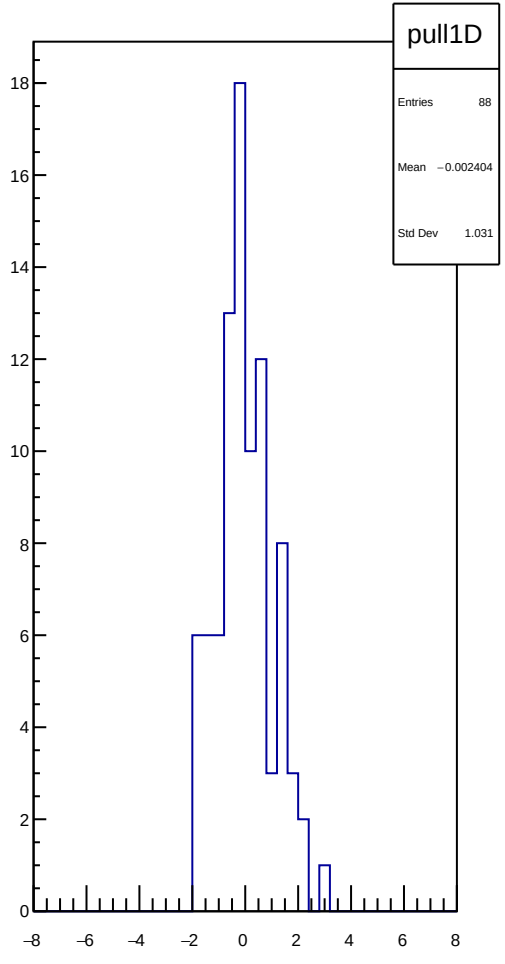

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1057 / 87
p0 1341 ± 1.039
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

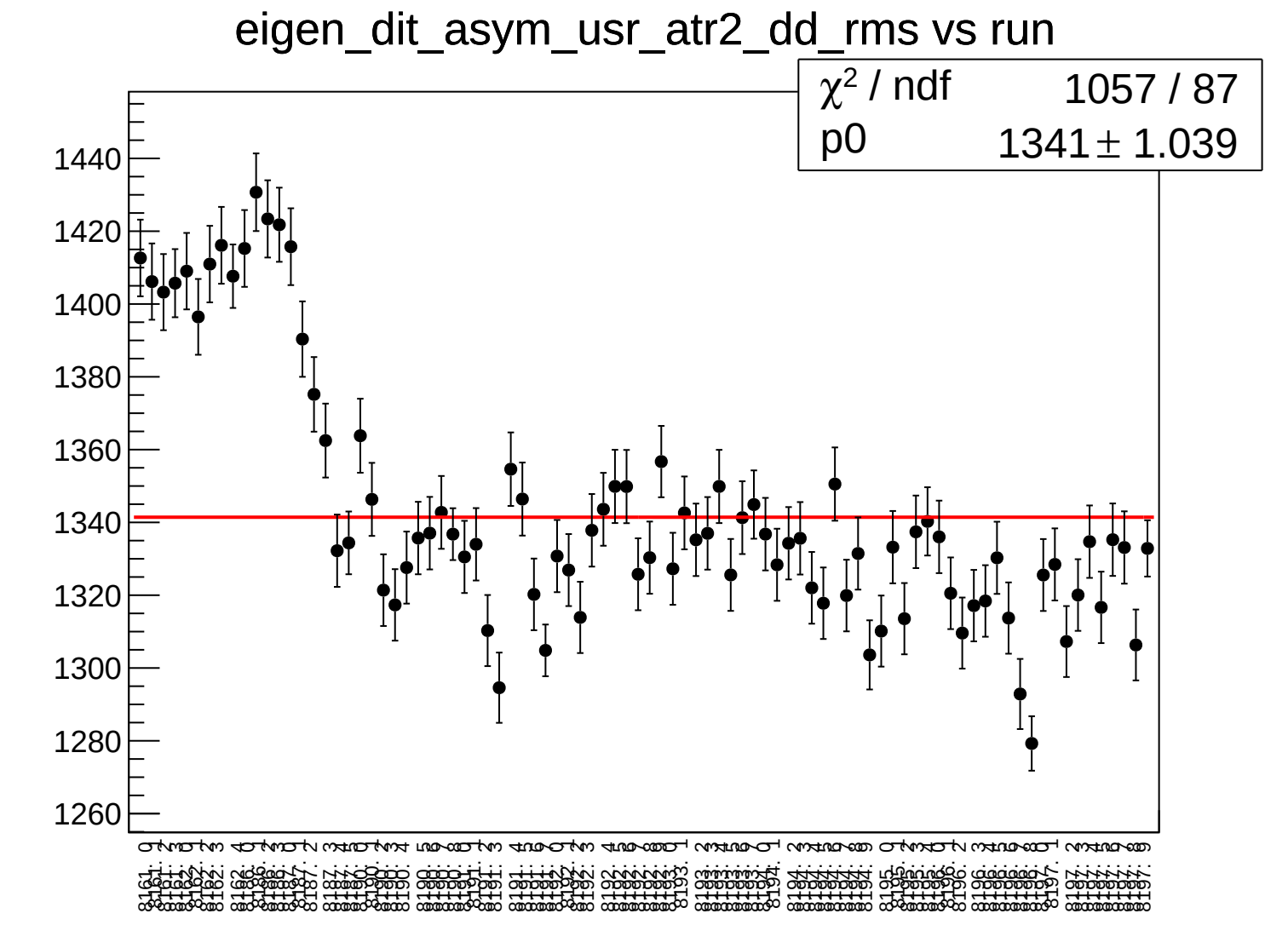

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.31 / 87
p0 −2108 ± 6552
200
100
0
−100
−200
pull
Entries 88
Mean −681.9
Std Dev 0
2
1
0
−1
−2

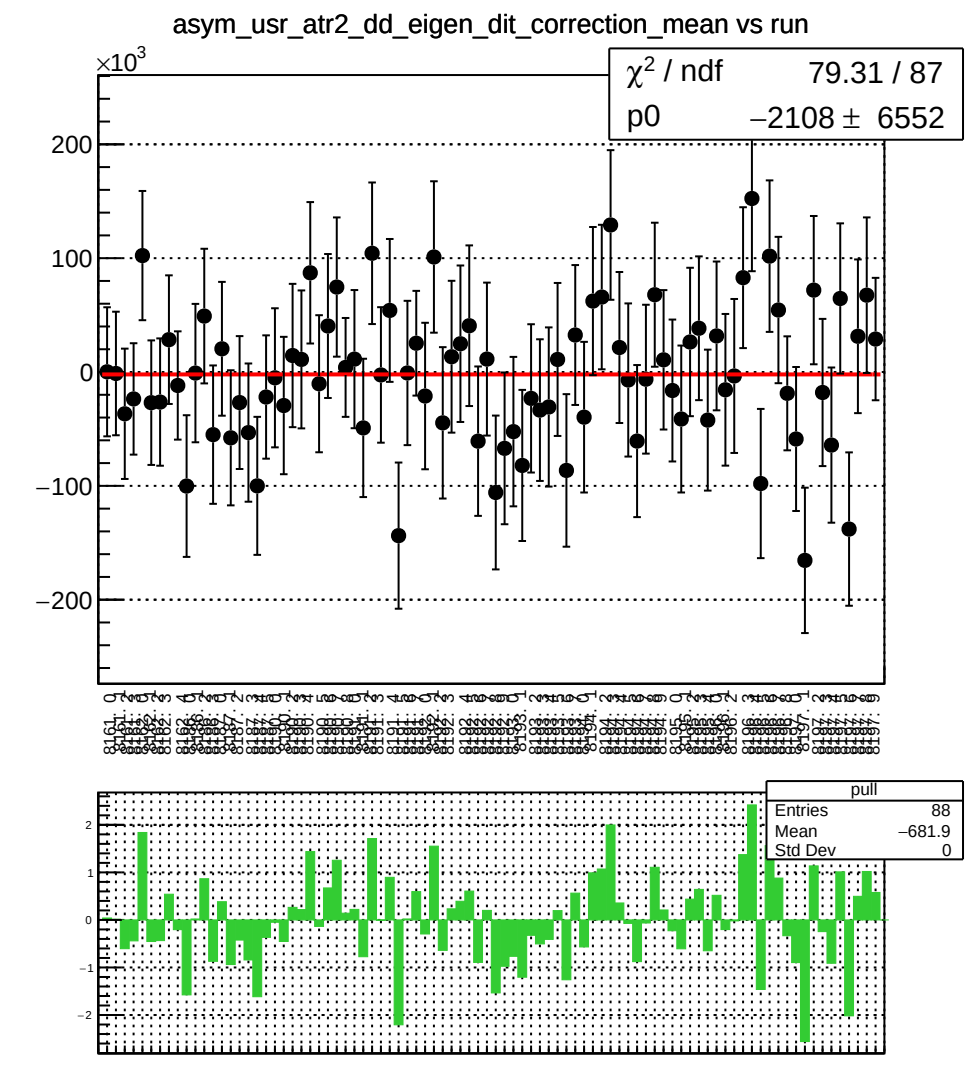

pull1D
Entries 88
Mean −0.002536
Std Dev 0.9493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

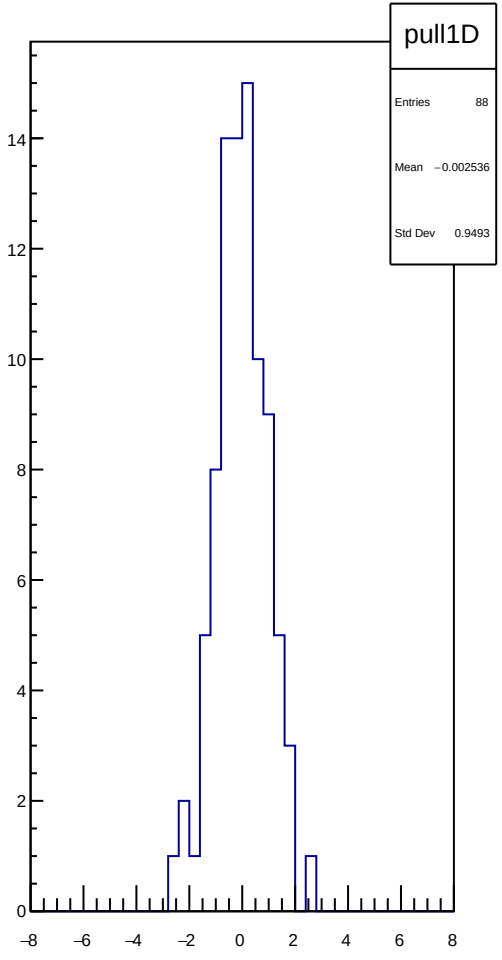

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 6098 / 87
p0 5971 ± 4.633
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

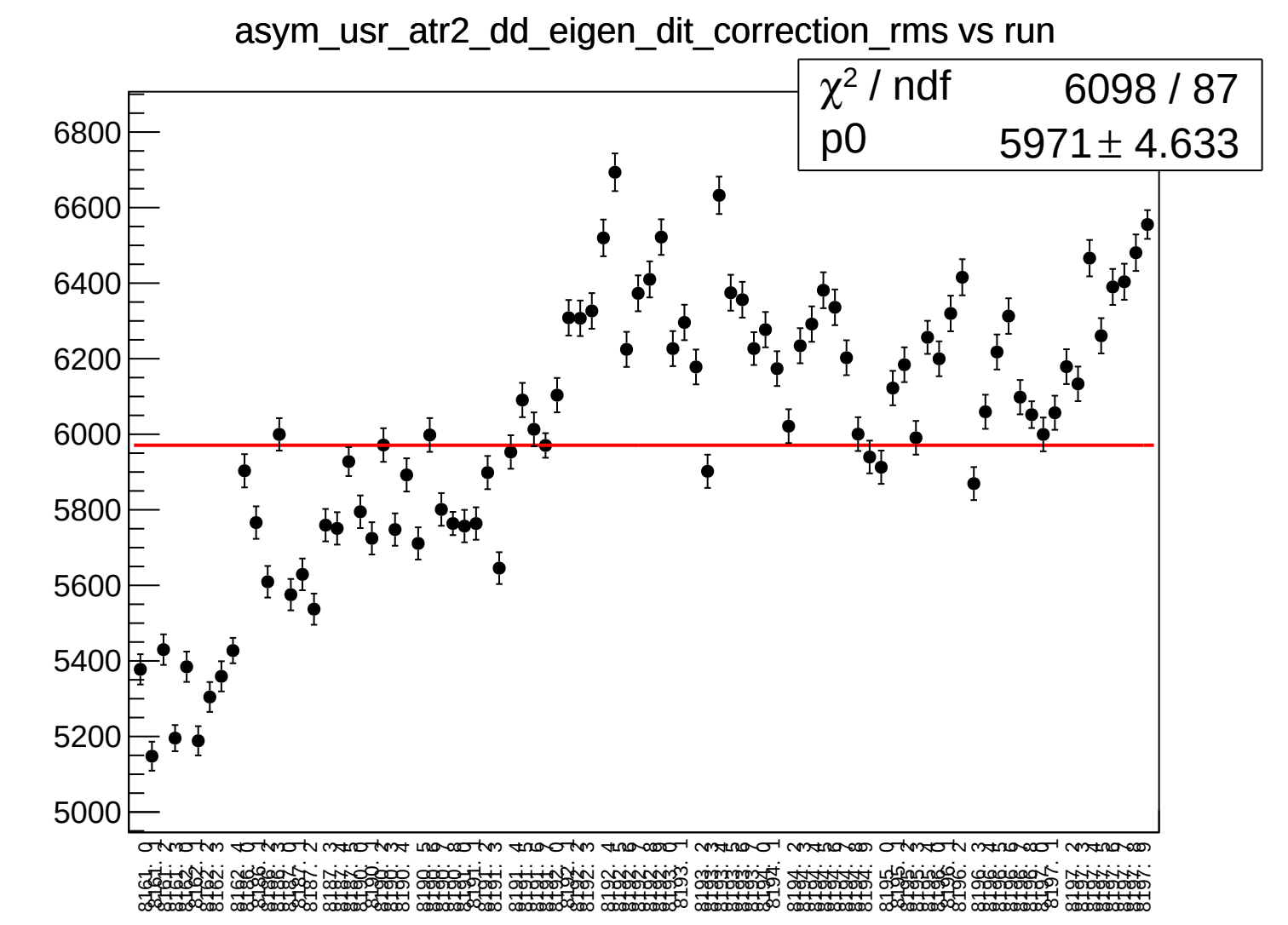

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 93.57 / 87
p0 1842 ± 1470
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −155.4
Std Dev 0
3
2
1
0
−1
−2

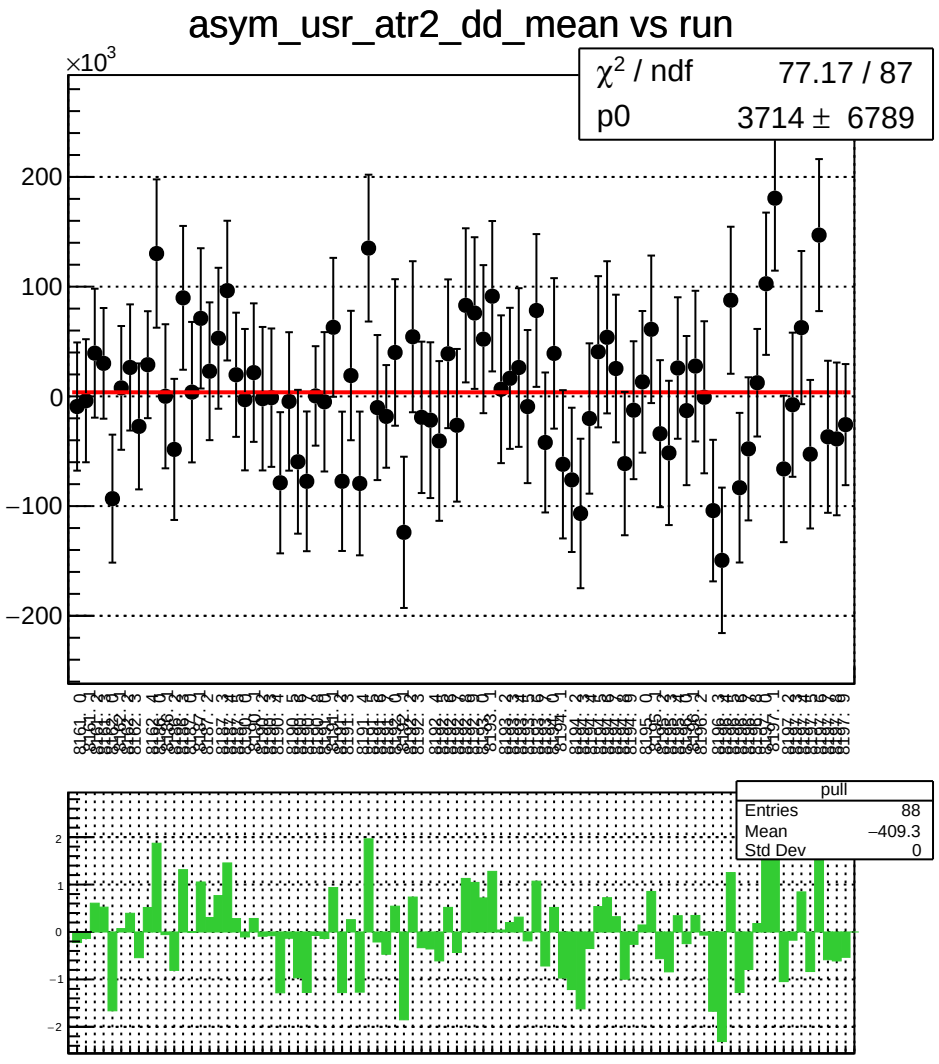

pull1D
Entries 88
Mean −0.002404
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

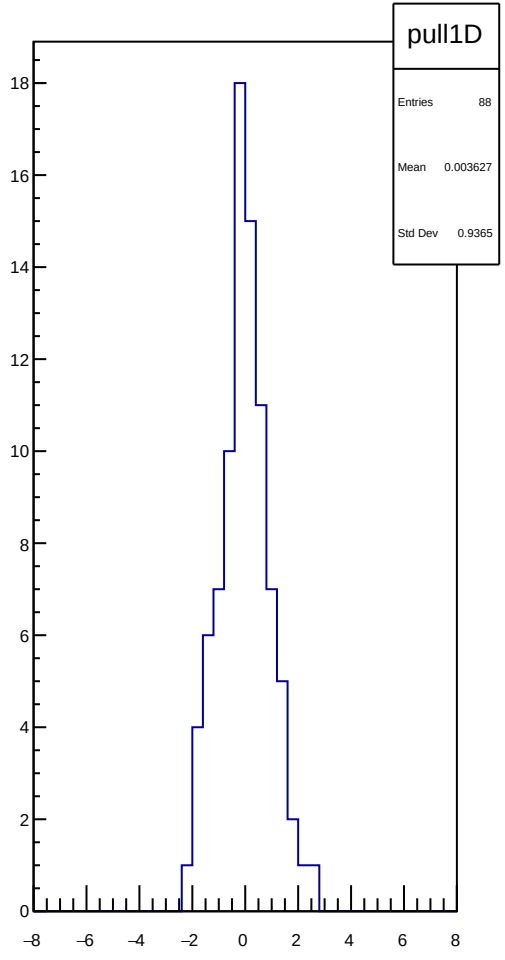

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1057 / 87
p0 1341 ± 1.039
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

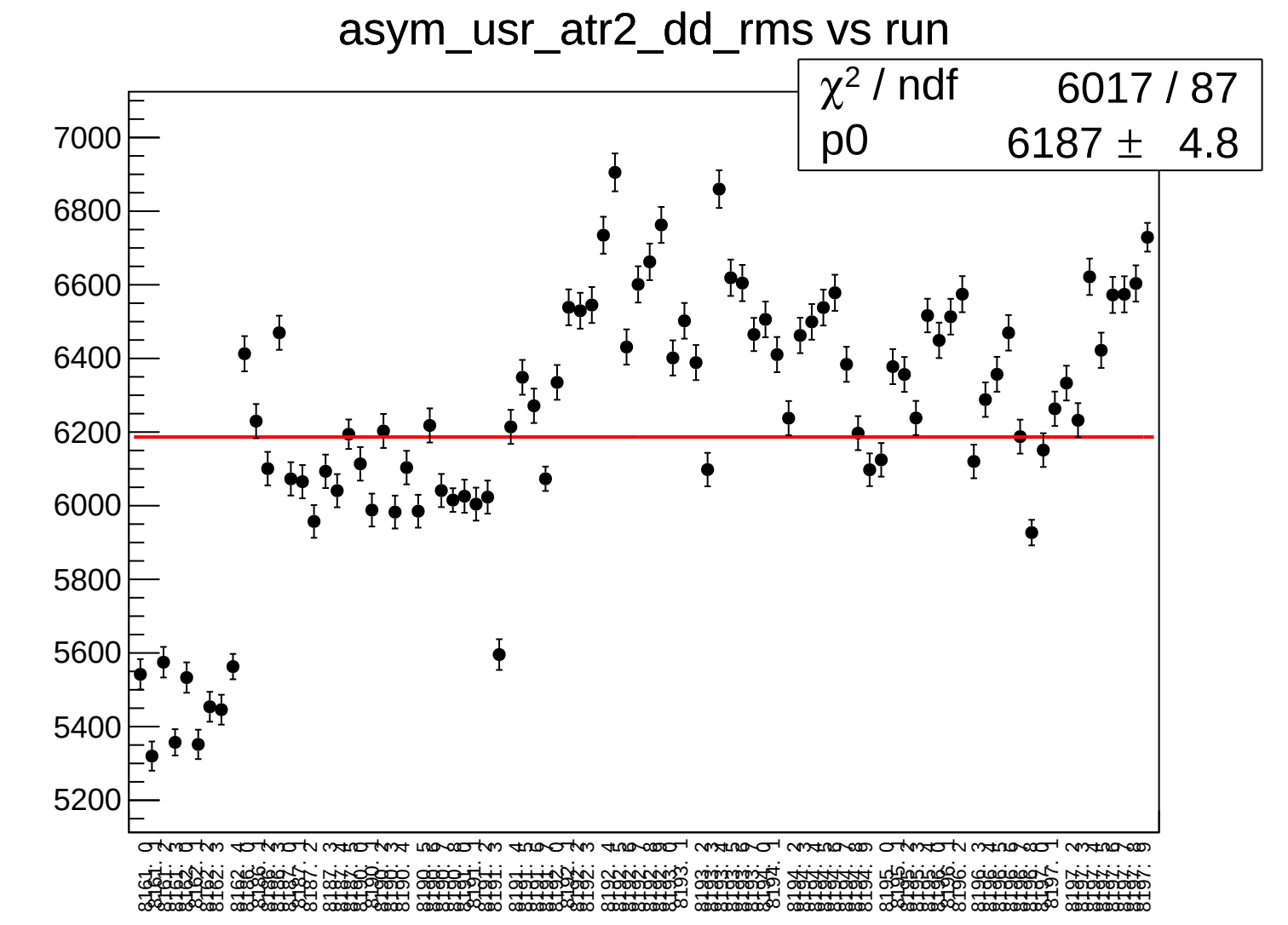

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.31 / 87
p0 −2108 ± 6552
200
100
0
−100
−200
pull
Entries 88
Mean −681.9
Std Dev 0
2
1
0
−1
−2

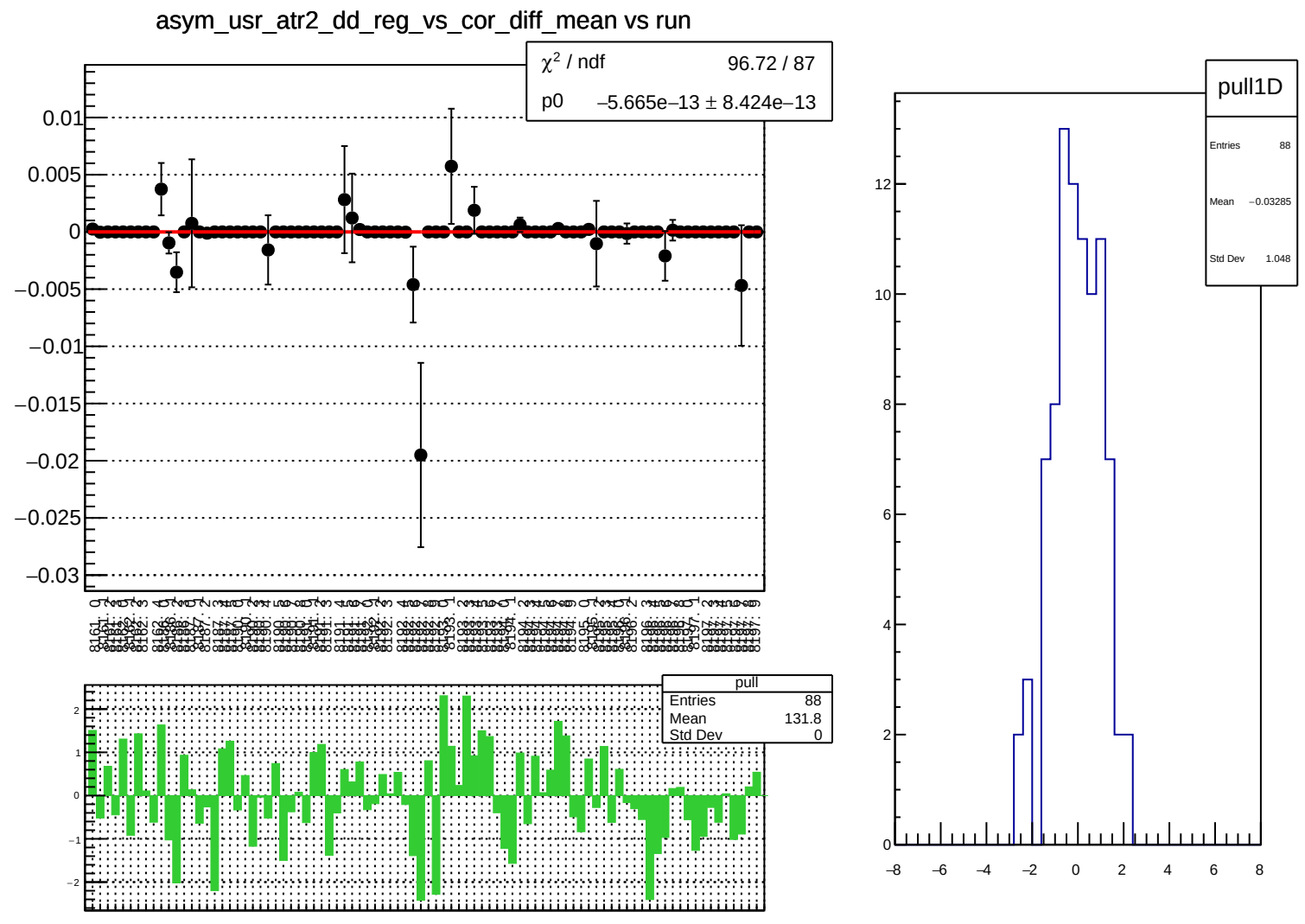

pull1D
Entries 88
Mean −0.002536
Std Dev 0.9493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

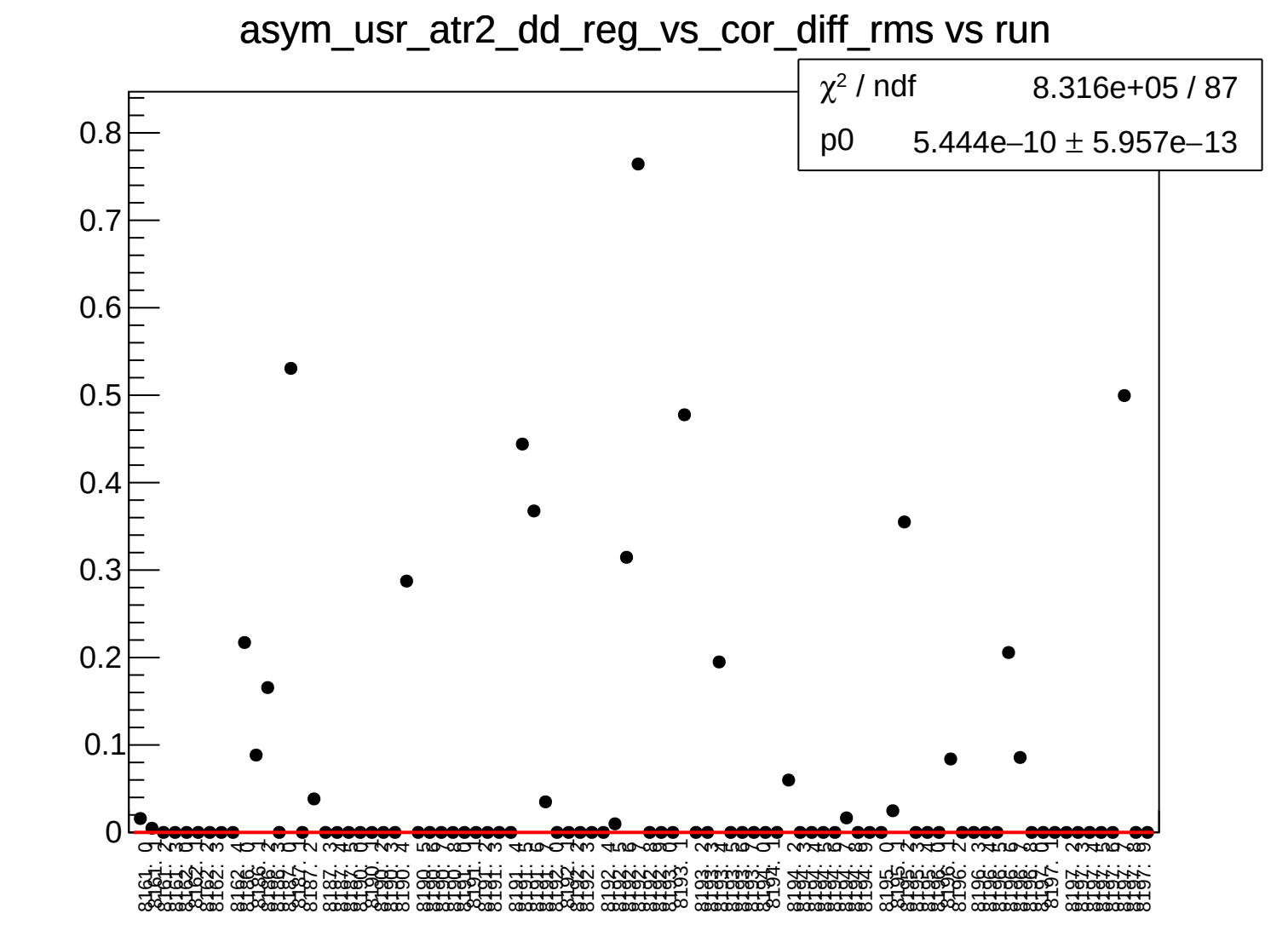

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6098 / 87
p0 5971 ± 4.633
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

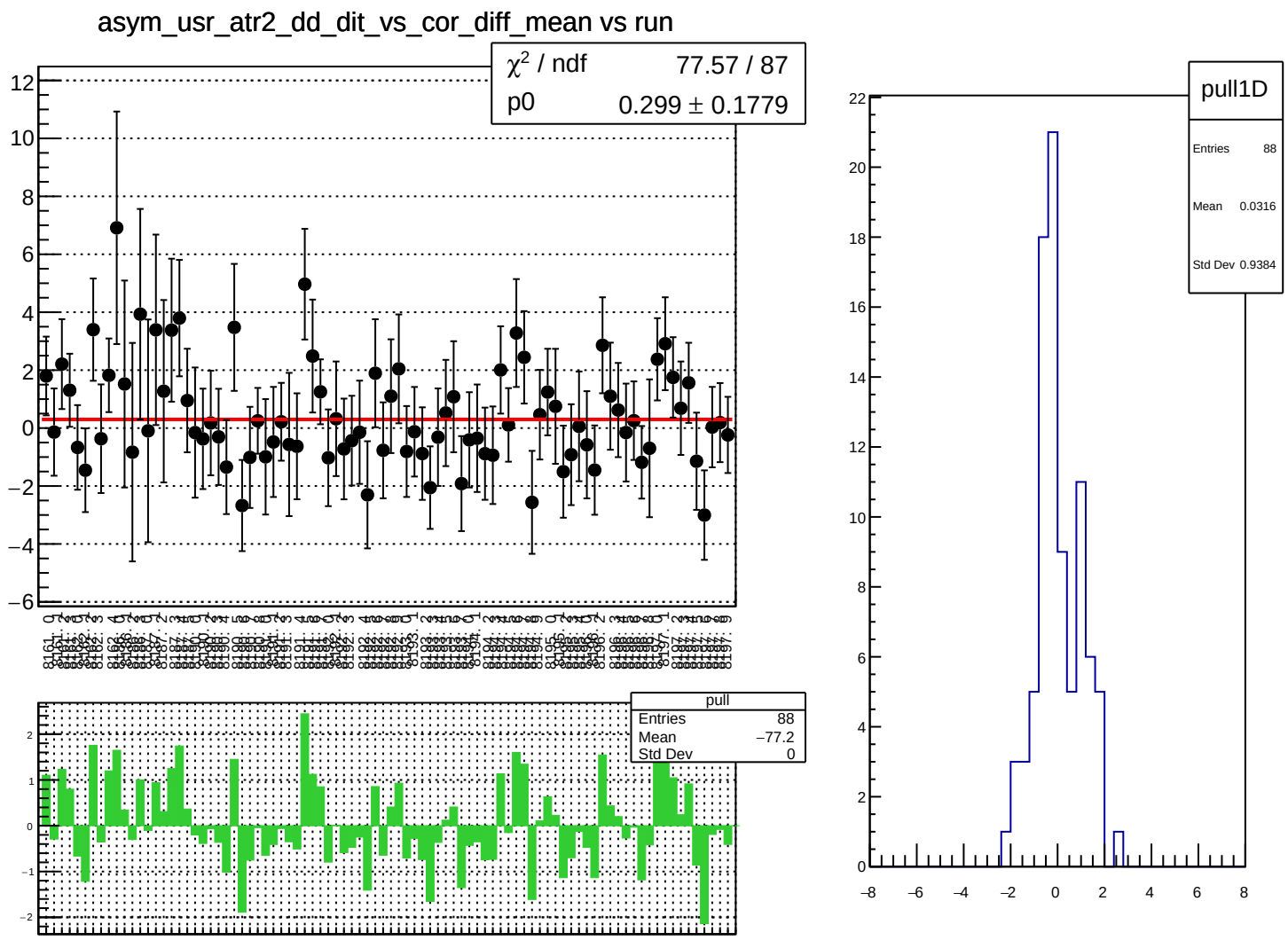

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 77.17 / 87
p0 3714 ± 6789
200
100
0
−100
−200
pull
Entries 88
Mean −409.3
Std Dev 0
2
1
0
−1
−2

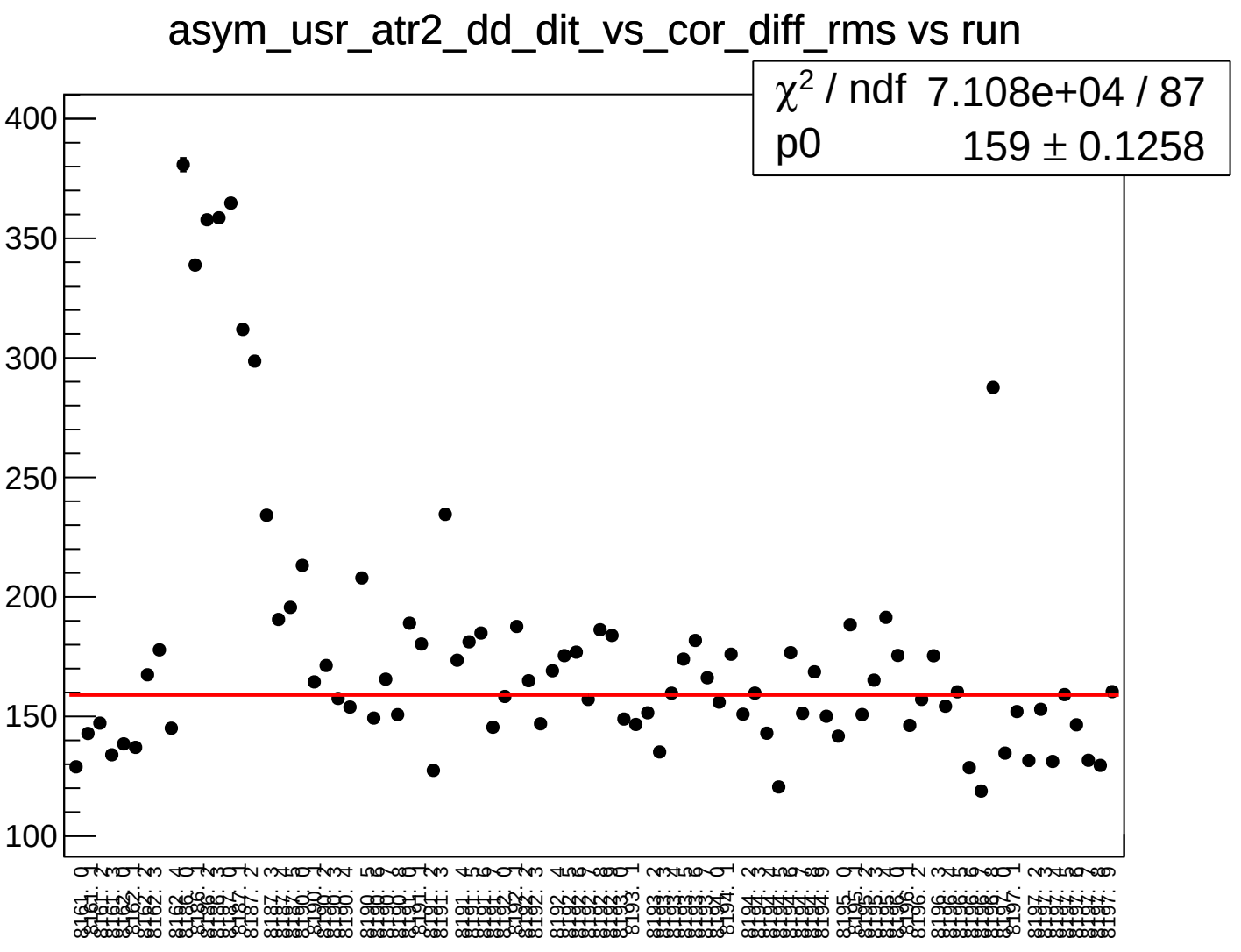

pull1D
Entries 88
Mean 0.003627
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

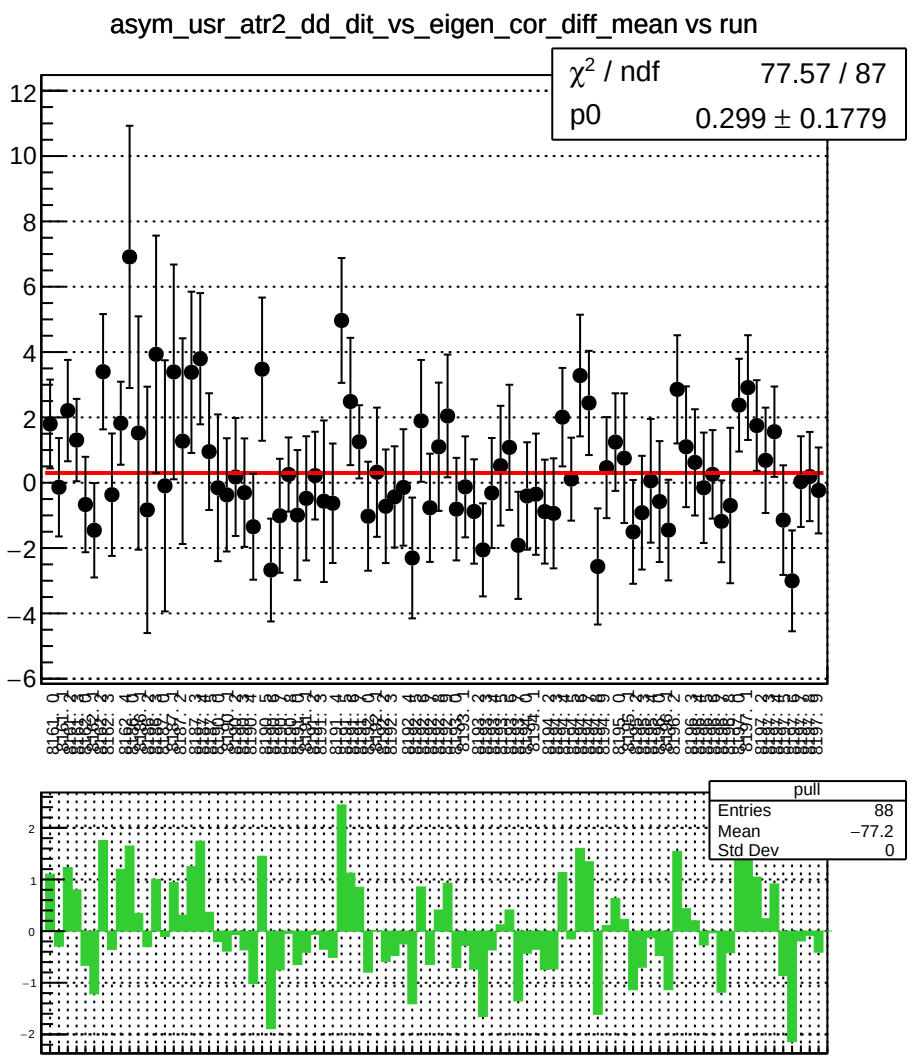

asym_usr_atr2_dd_rms vs run
χ² / ndf 6017 / 87
p0 6187 ± 4.8
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

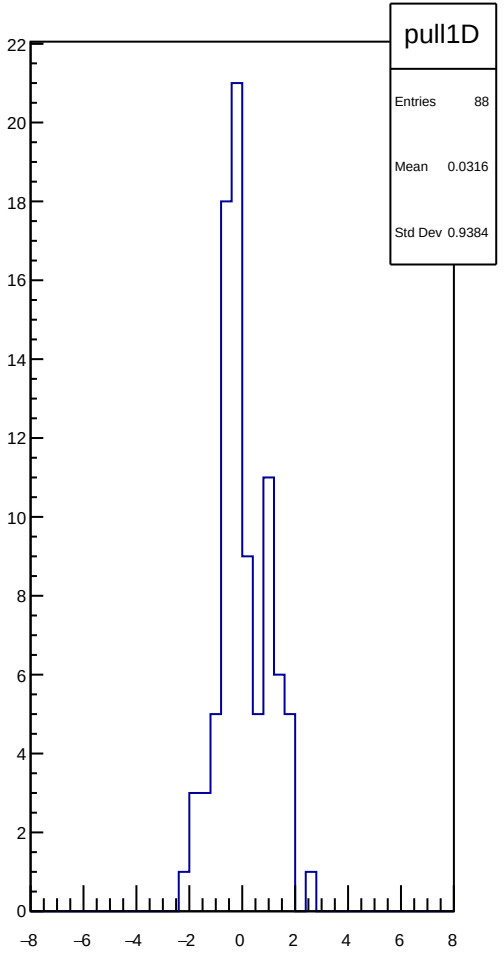

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.72 / 87
p0 −5.665e−13 ± 8.424e−13
pull
Entries 88
Mean 131.8
Std Dev 0
pull1D
Entries 88
Mean −0.03285
Std Dev 1.048

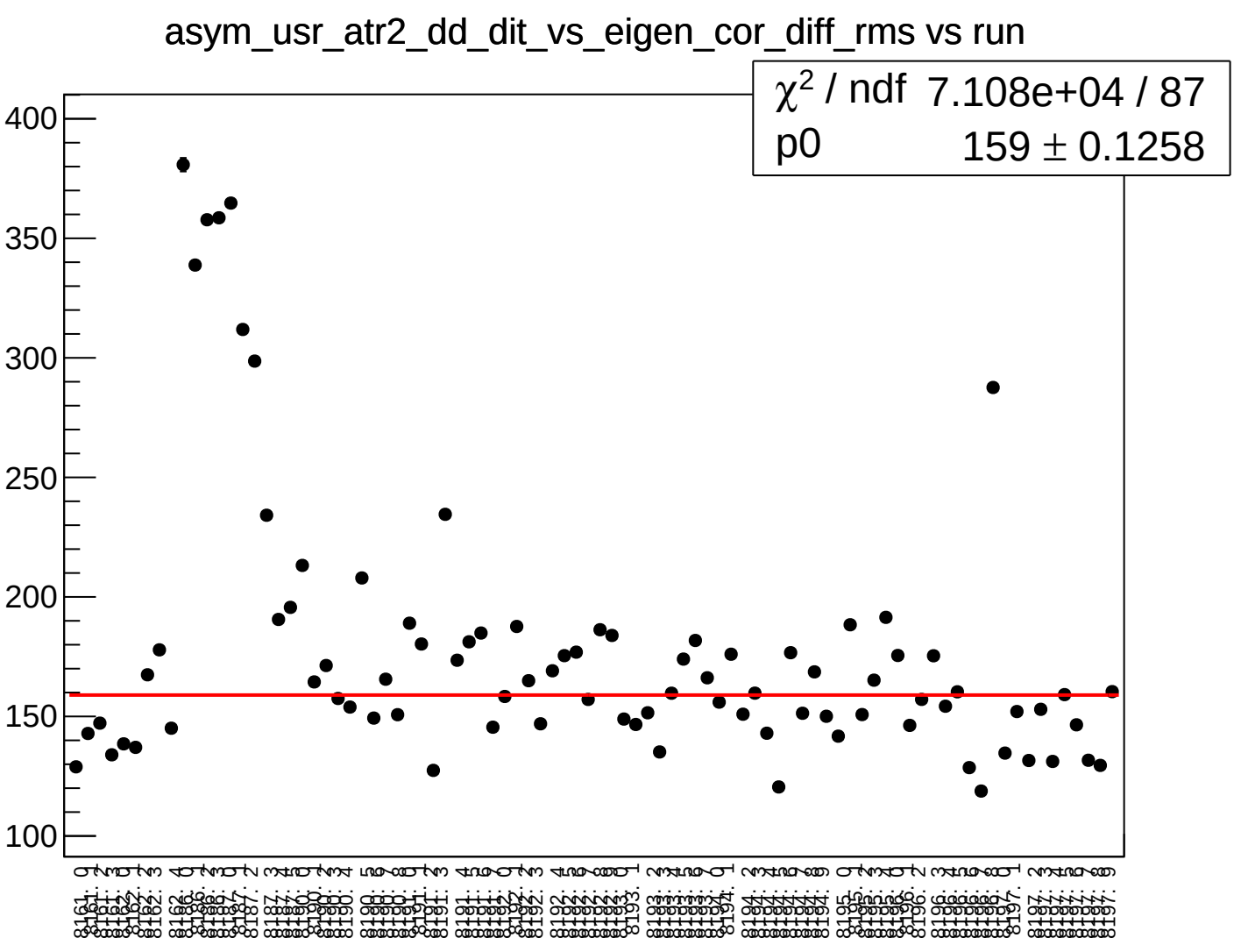

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.316e+05 / 87
p0 5.444e−10 ± 5.957e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

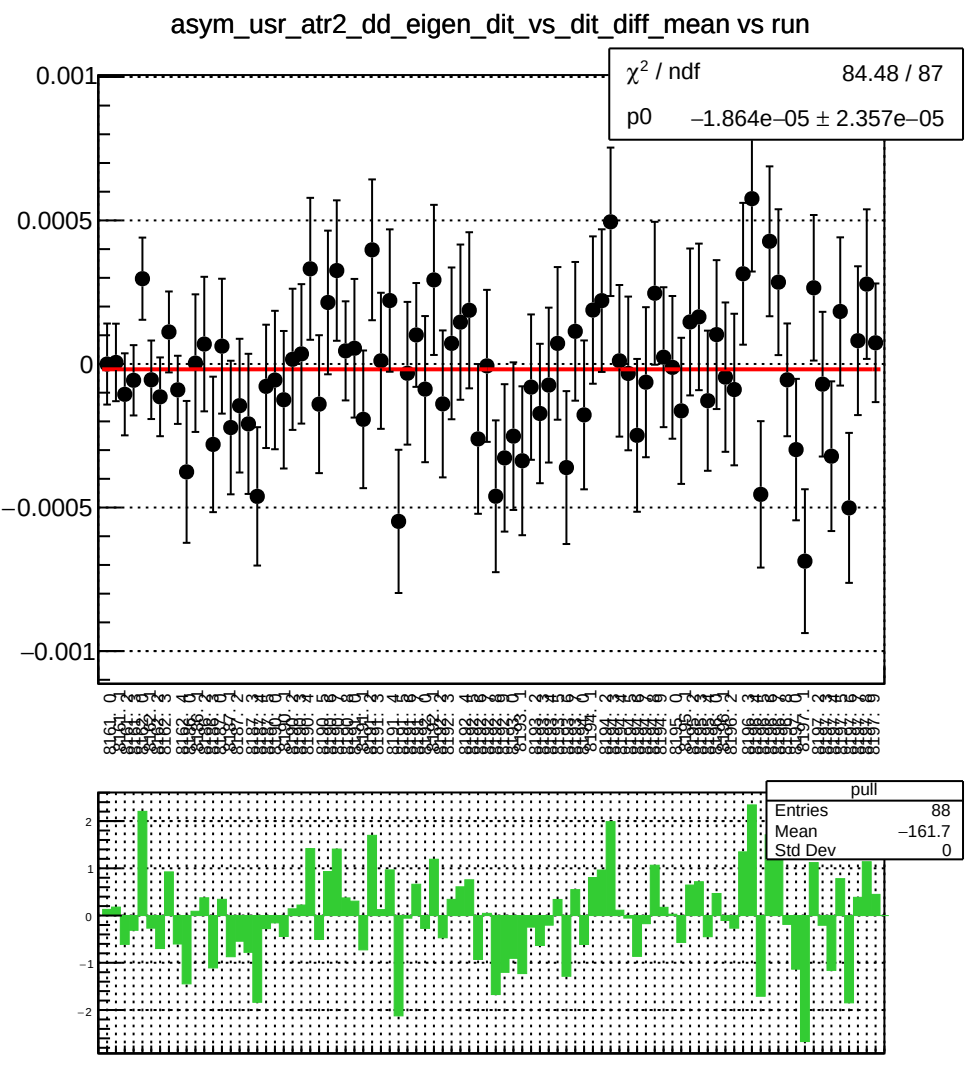

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.57 / 87
p0 0.299 ± 0.1779
pull
Entries 88
Mean −77.2
Std Dev 0
pull1D
Entries 88
Mean 0.0316
Std Dev 0.9384

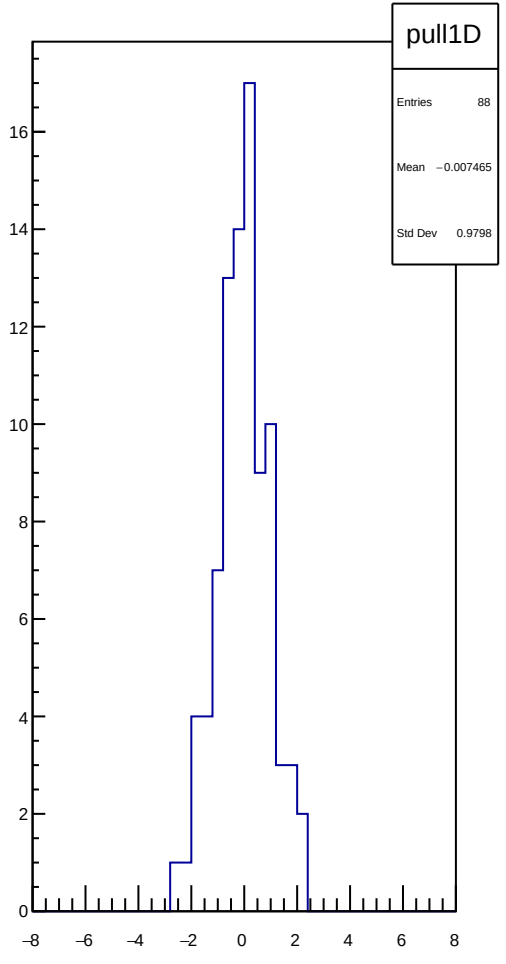

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.108e+04 / 87
p0 159 ± 0.1258
400
350
300
250
200
150
100

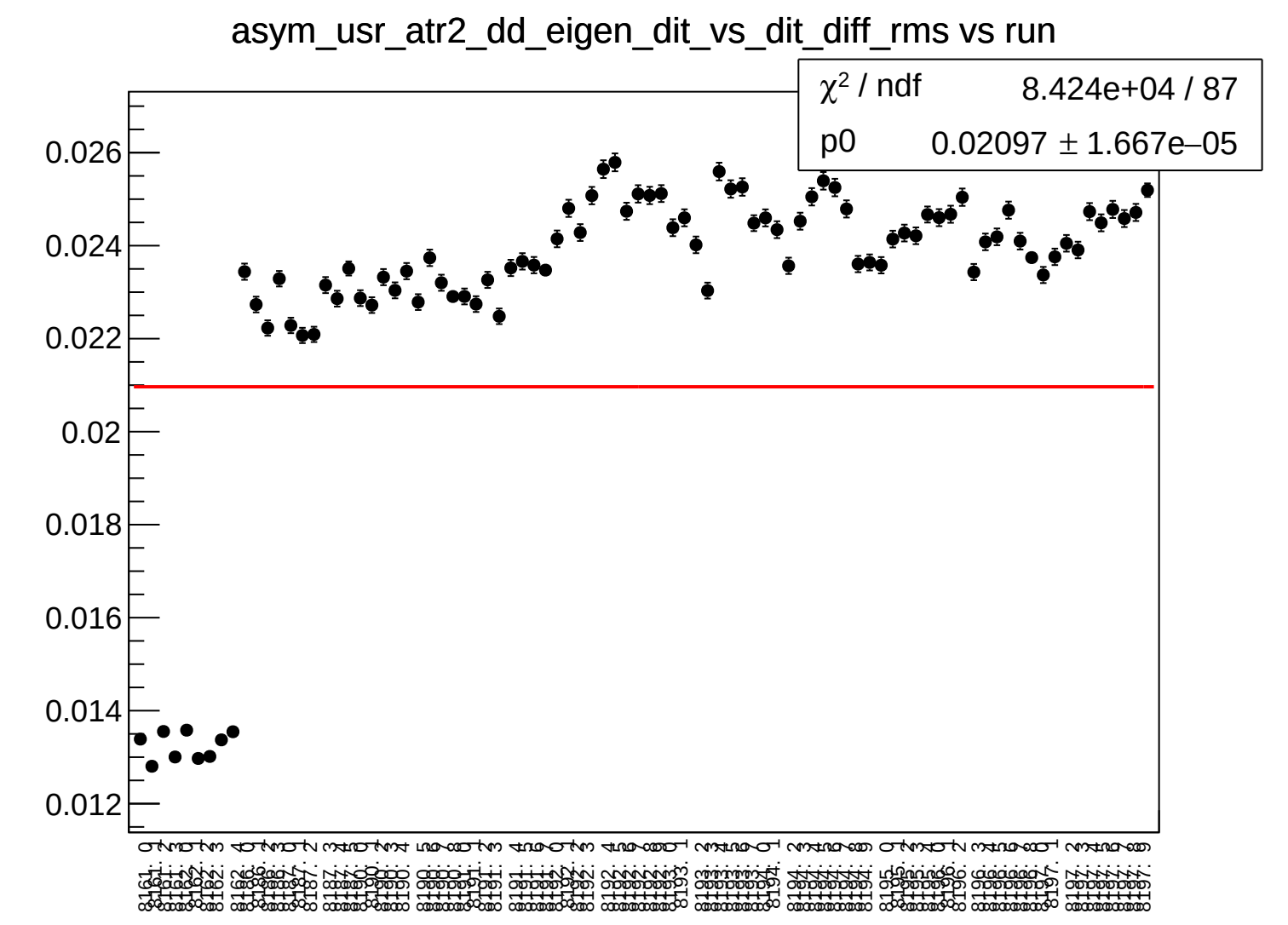

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.57 / 87
p0 0.299 ± 0.1779
pull
Entries 88
Mean −77.2
Std Dev 0

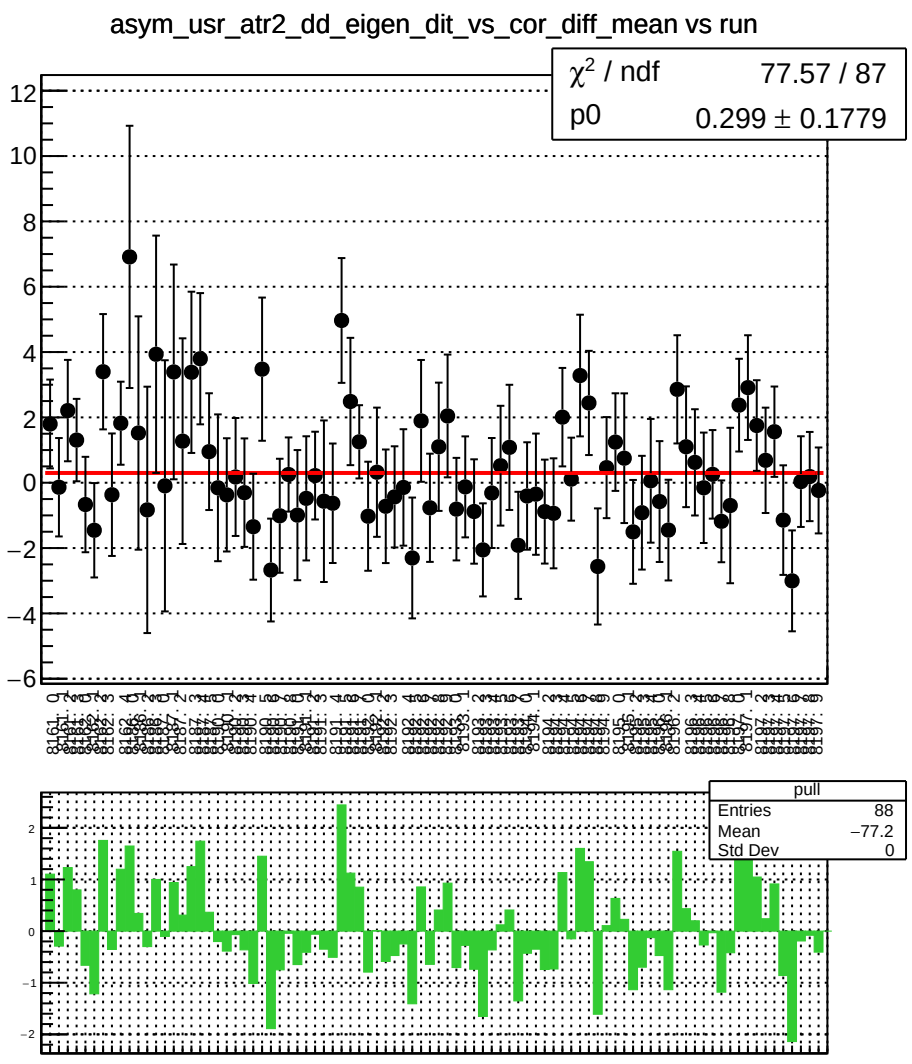

pull1D
Entries 88
Mean 0.0316
Std Dev 0.9384

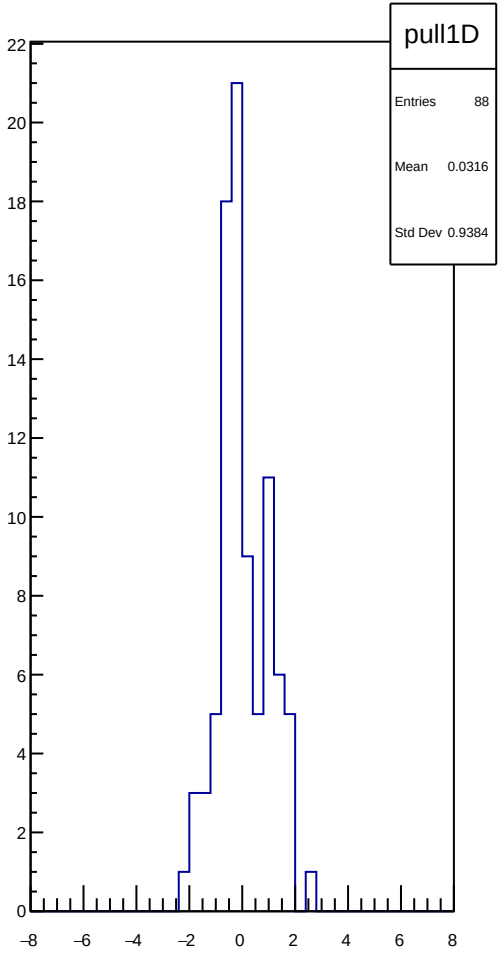

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.108e+04 / 87
p0 159 ± 0.1258
400
350
300
250
200
150
100

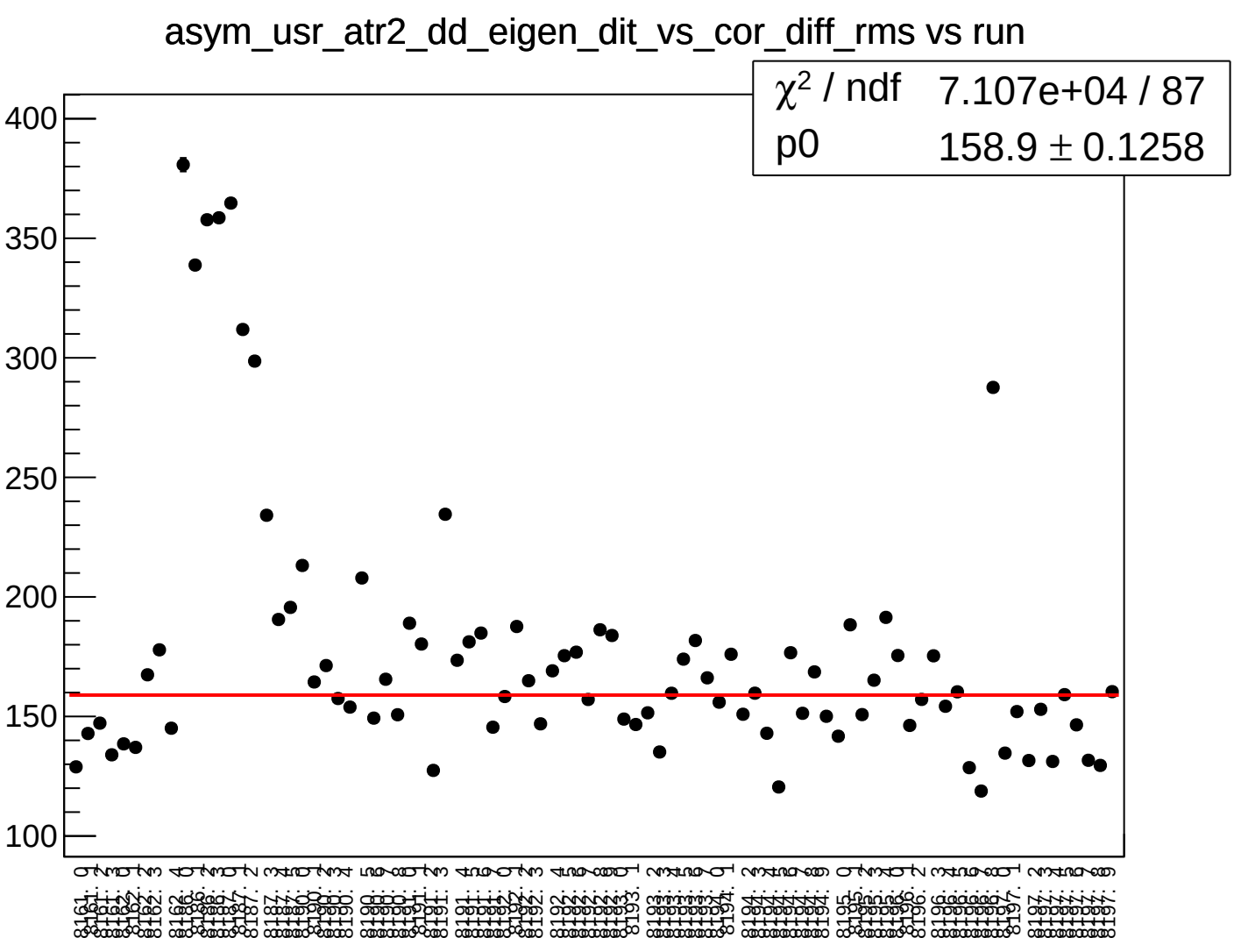

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.48 / 87
p0 −1.864e−05 ± 2.357e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean −161.7
Std Dev 0
2
1
0
−1
−2

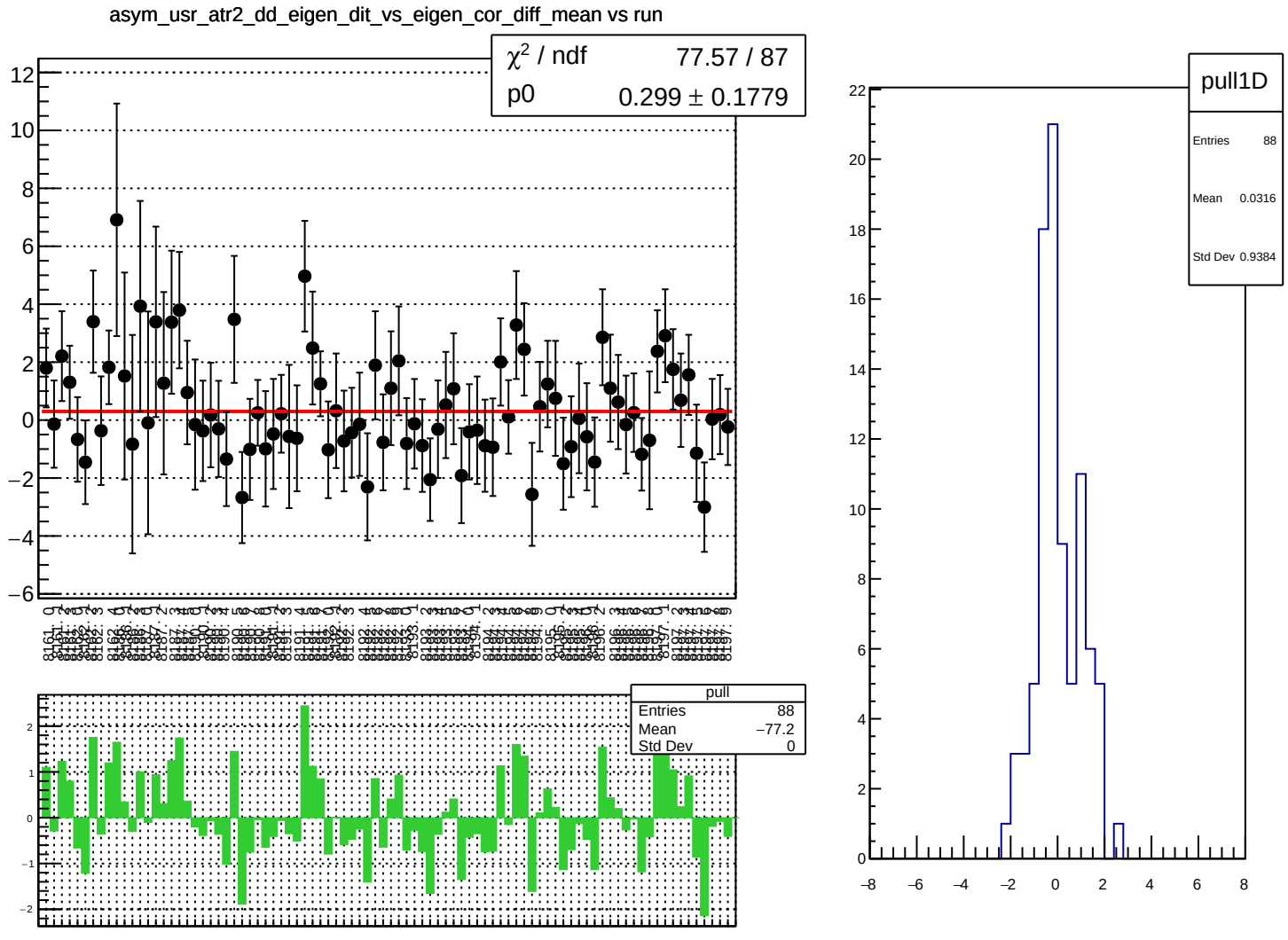

pull1D
Entries 88
Mean −0.007465
Std Dev 0.9798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

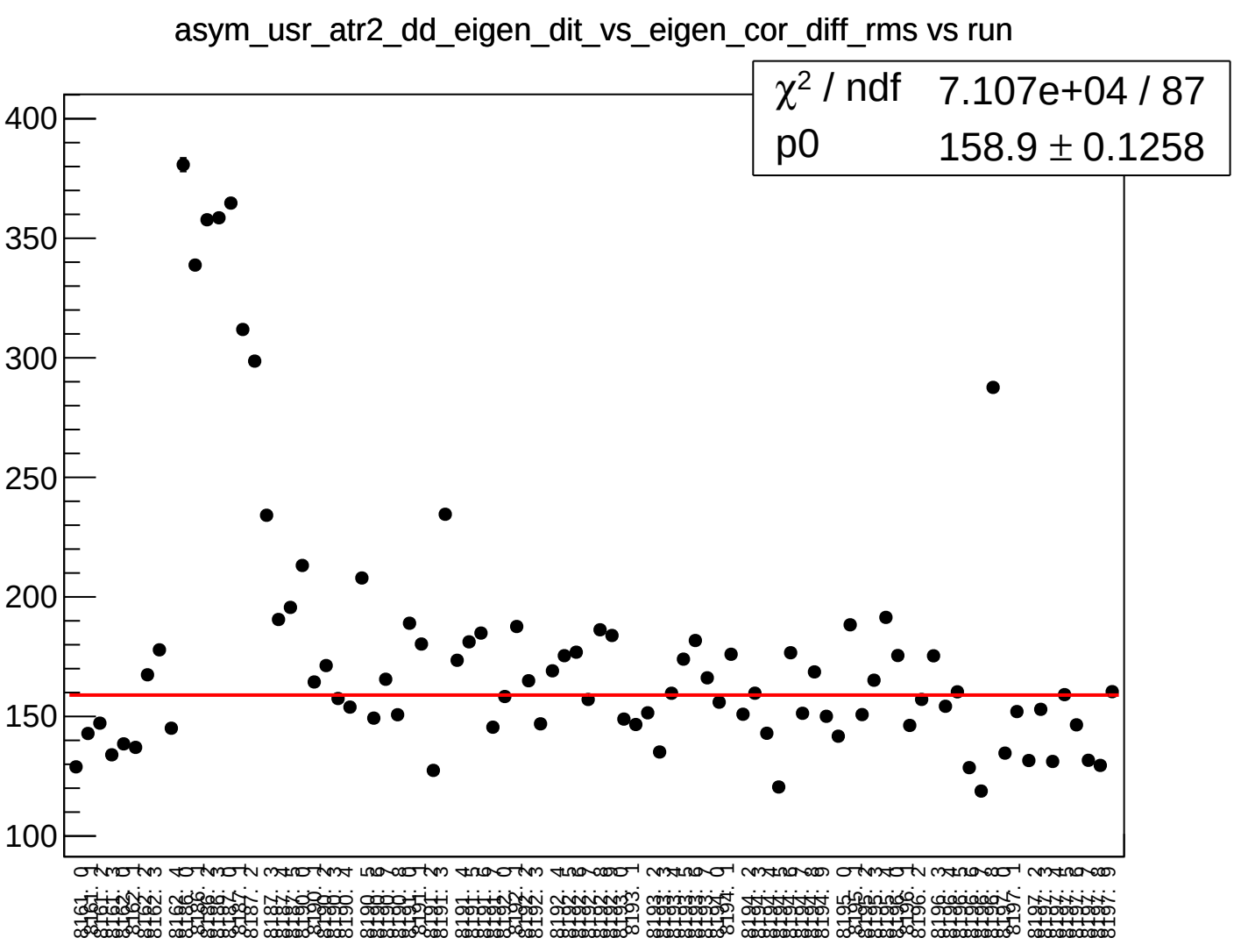

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.424e+04 / 87
p0 0.02097 ± 1.667e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

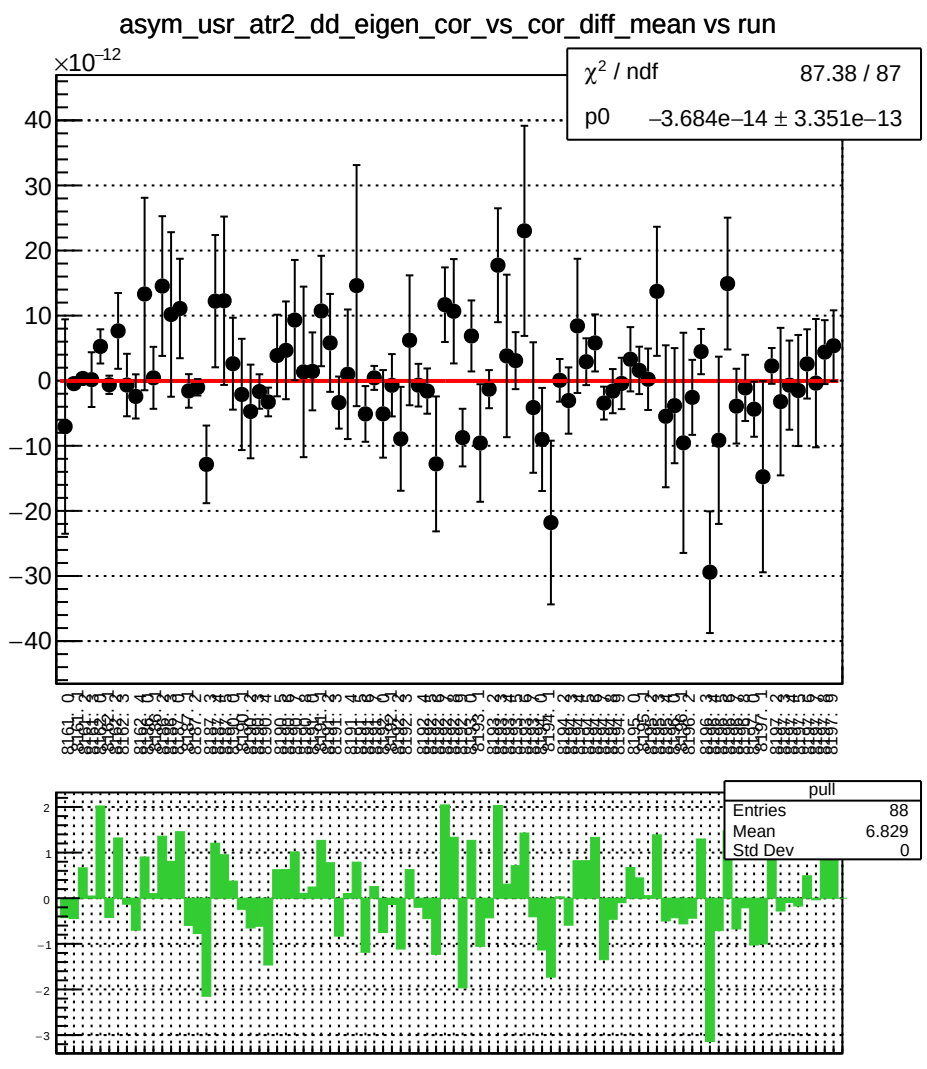

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.57 / 87
p0 0.299 ± 0.1779
pull
Entries 88
Mean −77.2
Std Dev 0

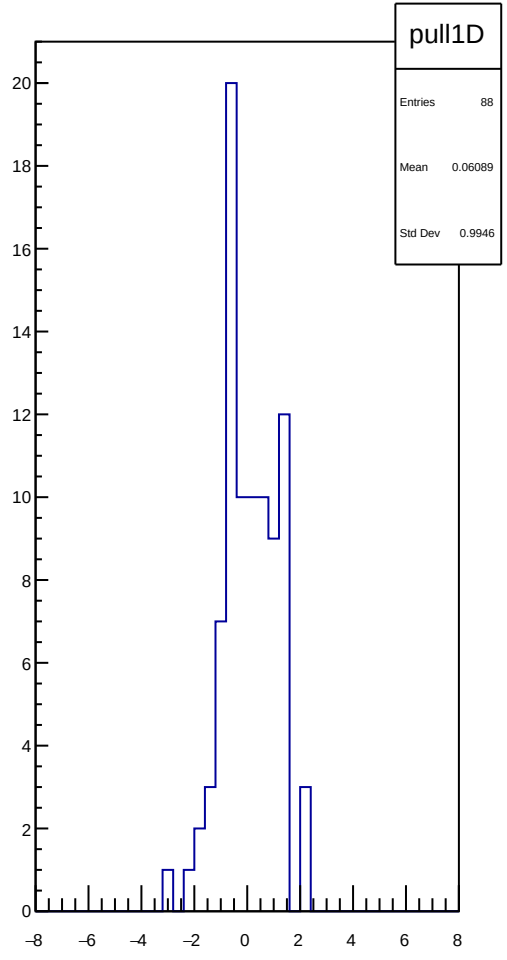

pull1D
Entries 88
Mean 0.0316
Std Dev 0.9384

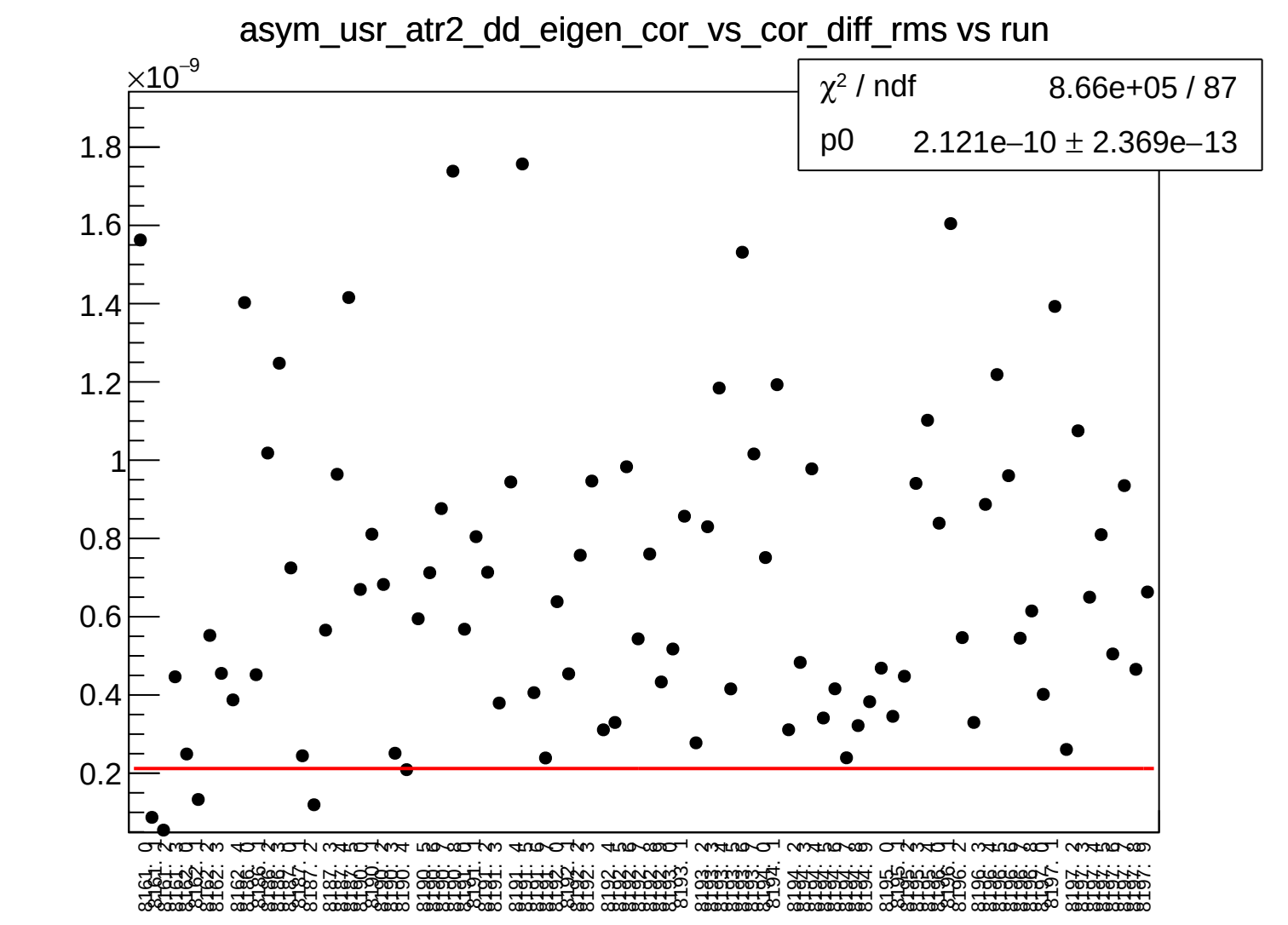

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.107e+04 / 87
p0 158.9 ± 0.1258
400
350
300
250
200
150
100

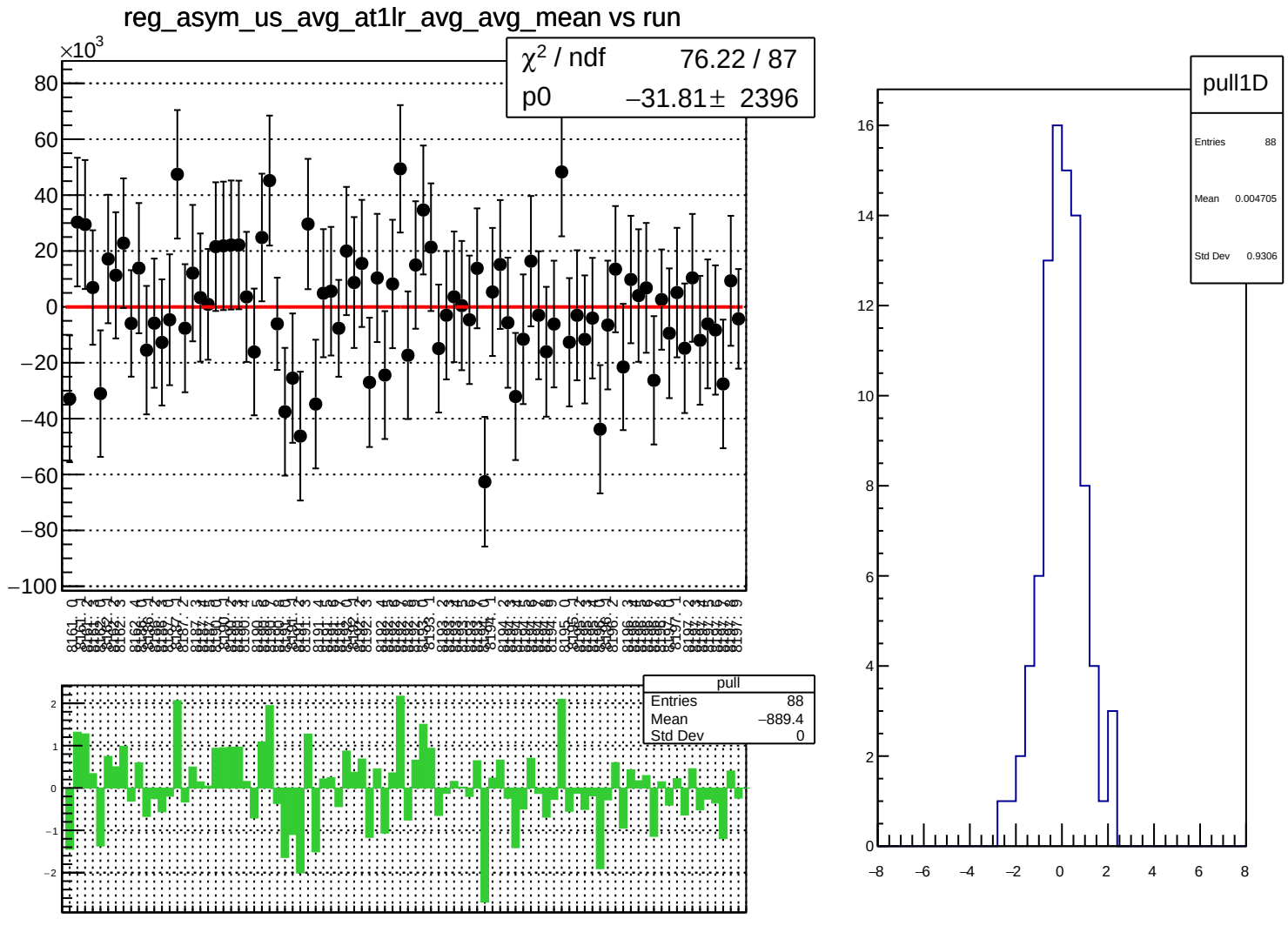

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.57 / 87
p0 0.299 ± 0.1779
pull
Entries 88
Mean −77.2
Std Dev 0
pull1D
Entries 88
Mean 0.0316
Std Dev 0.9384

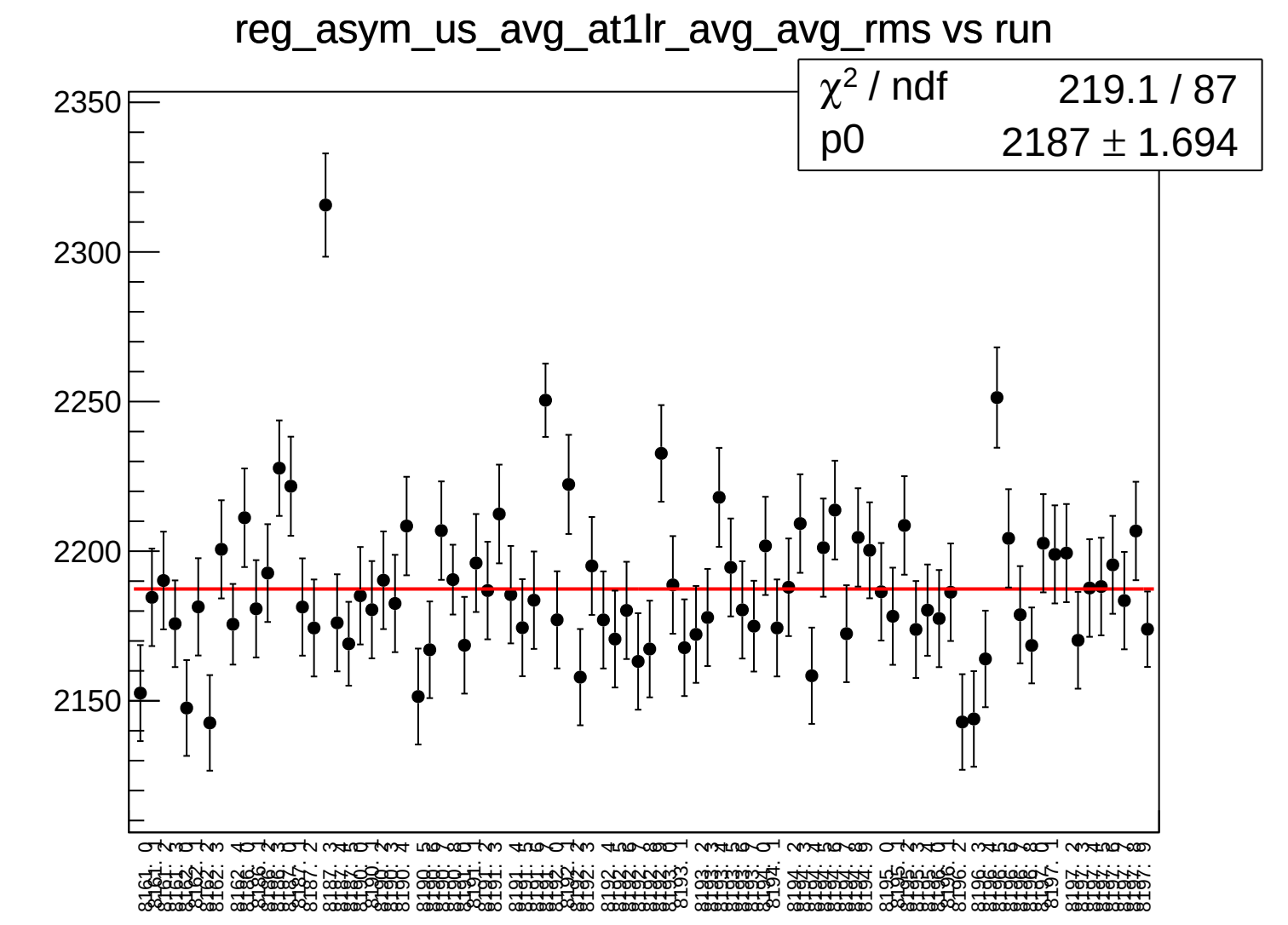

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.107e+04 / 87
p0 158.9 ± 0.1258
400
350
300
250
200
150
100

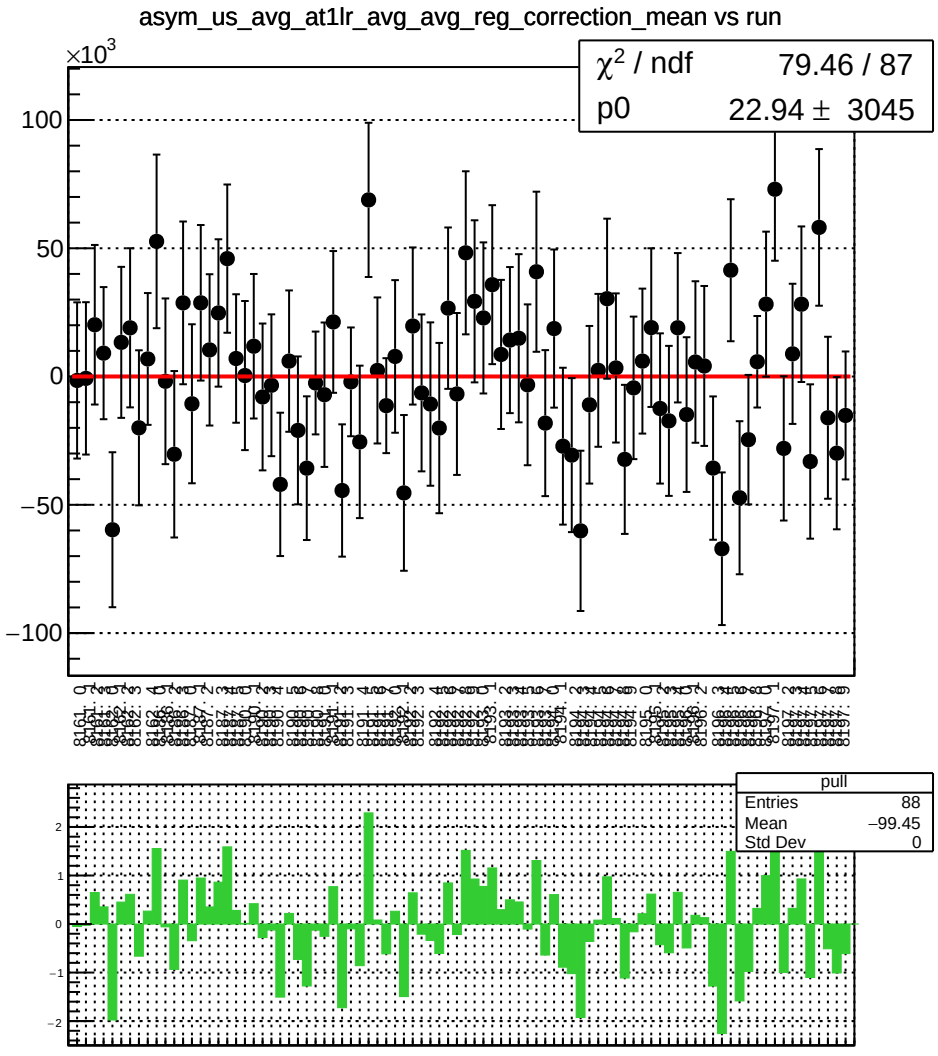

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.38 / 87
p0 −3.684e−14 ± 3.351e−13
pull
Entries 88
Mean 6.829
Std Dev 0

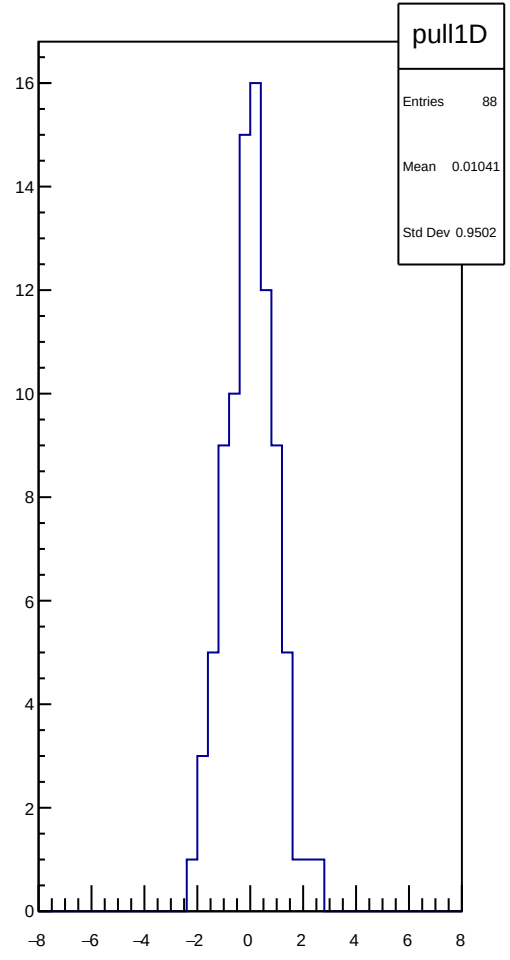

pull1D
Entries 88
Mean 0.06089
Std Dev 0.9946

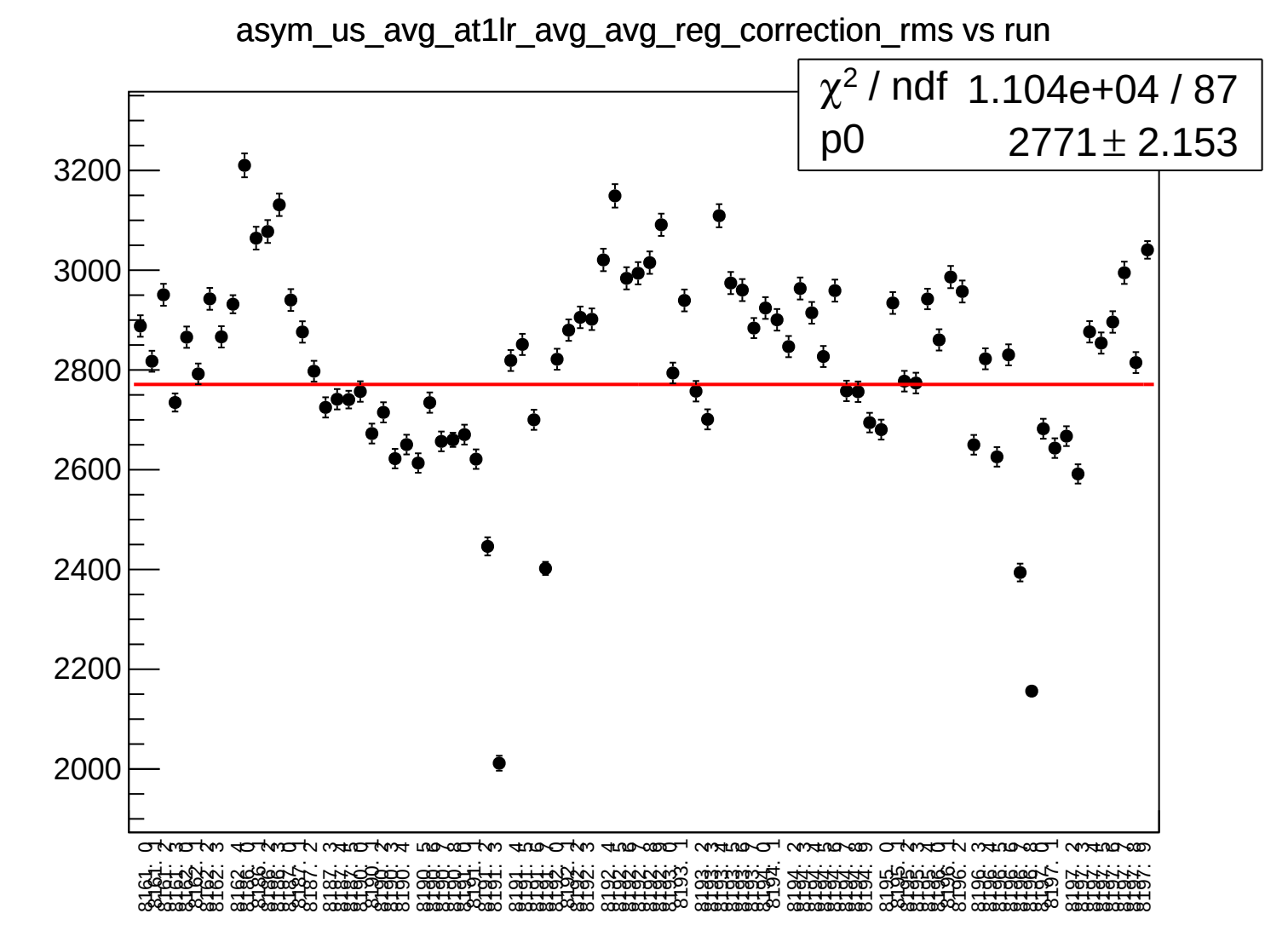

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.66e+05 / 87
p0 2.121e−10 ± 2.369e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

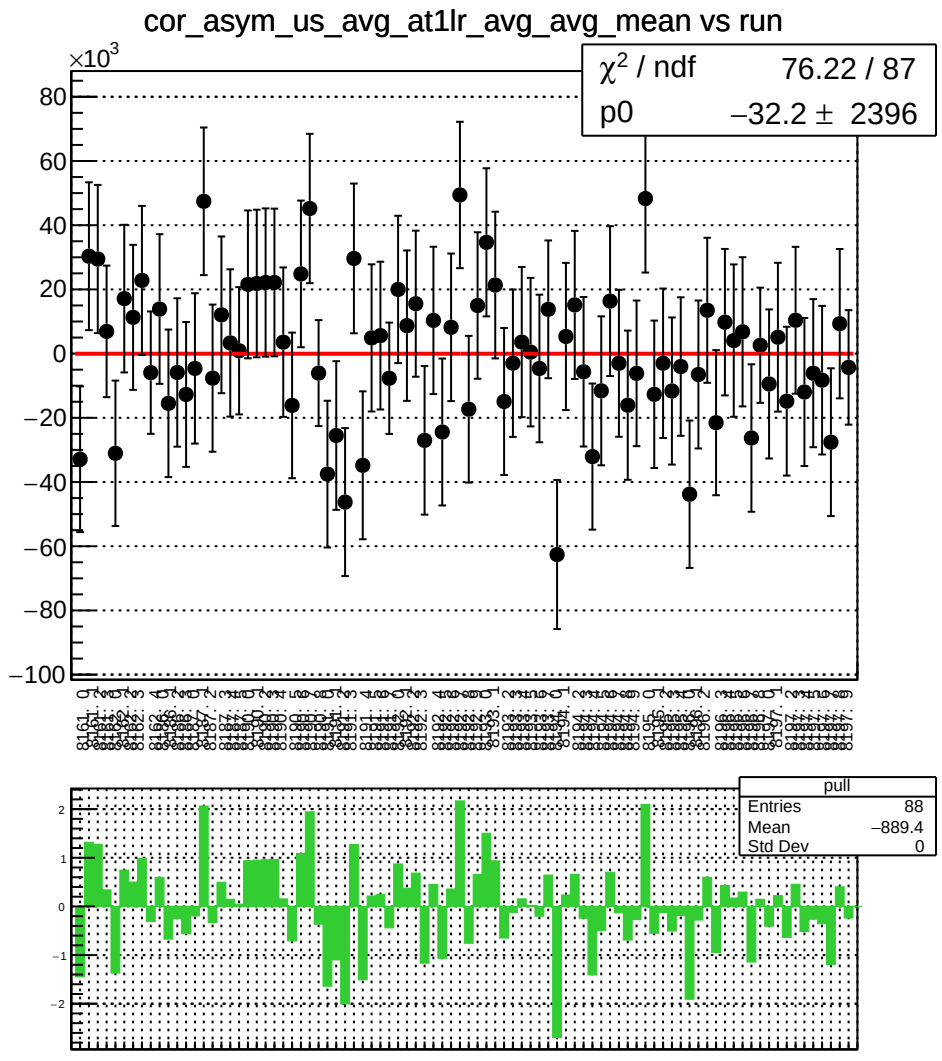

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 76.22 / 87
p0 −31.81± 2396
pull
Entries 88
Mean −889.4
Std Dev 0
pull1D
Entries 88
Mean 0.004705
Std Dev 0.9306

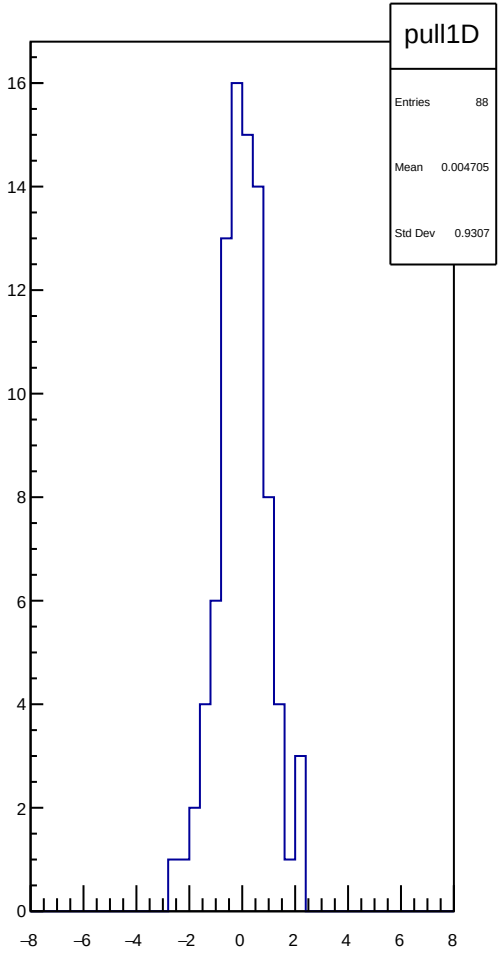

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 219.1 / 87
p0 2187 ± 1.694
2350
2300
2250
2200
2150

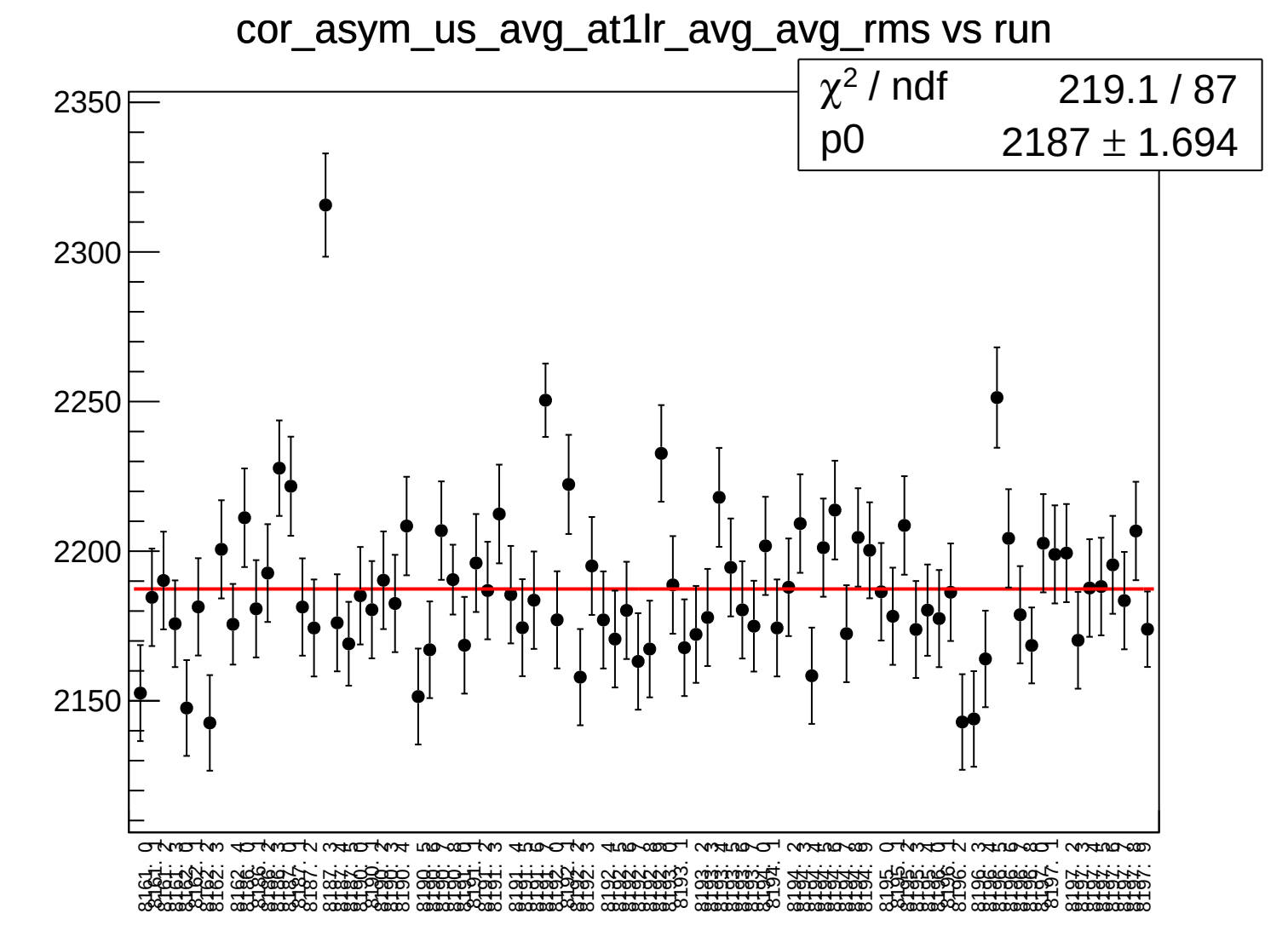

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.46 / 87
p0 22.94 ± 3045
pull
Entries 88
Mean −99.45
Std Dev 0

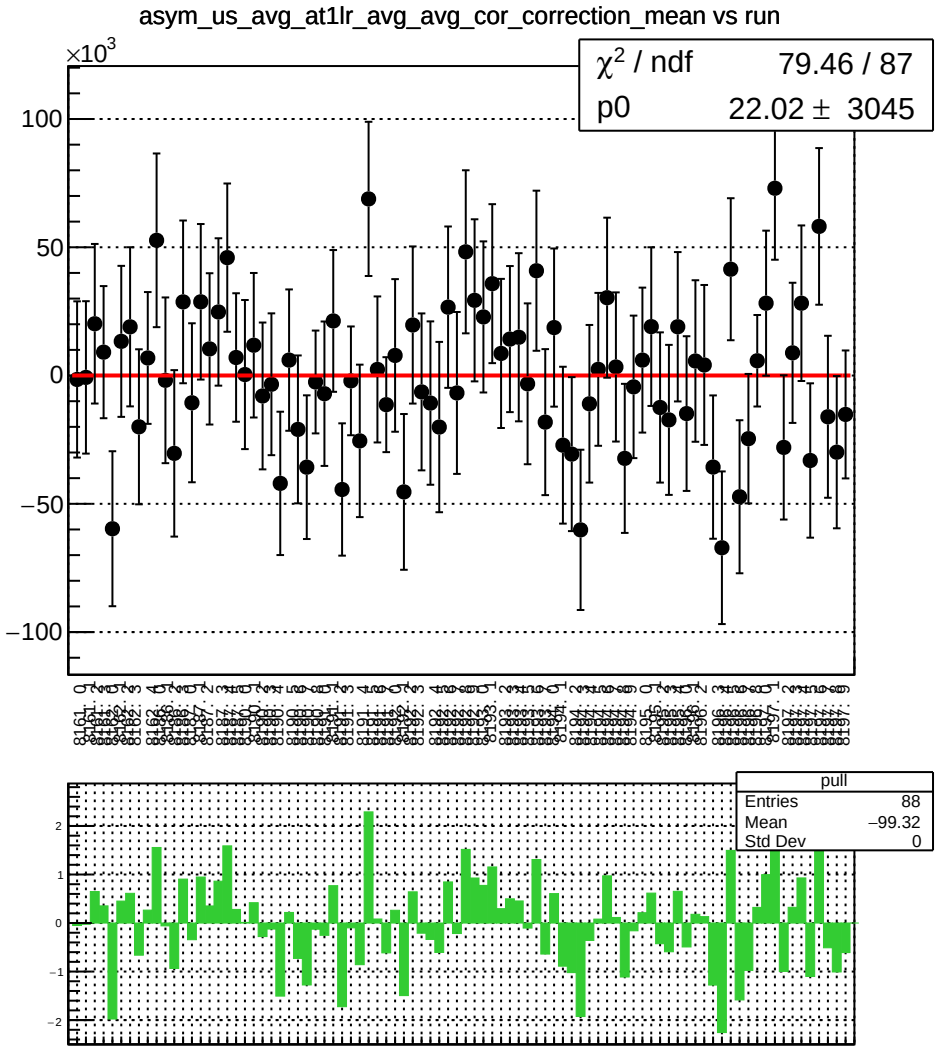

pull1D
Entries 88
Mean 0.01041
Std Dev 0.9502

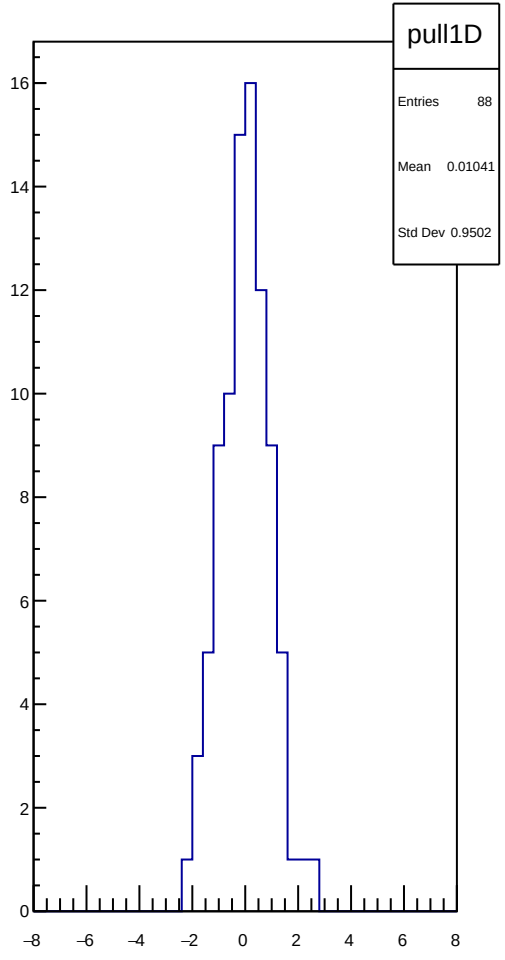

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.104e+04 / 87
p0 2771 ± 2.153
3200
3000
2800
2600
2400
2200
2000

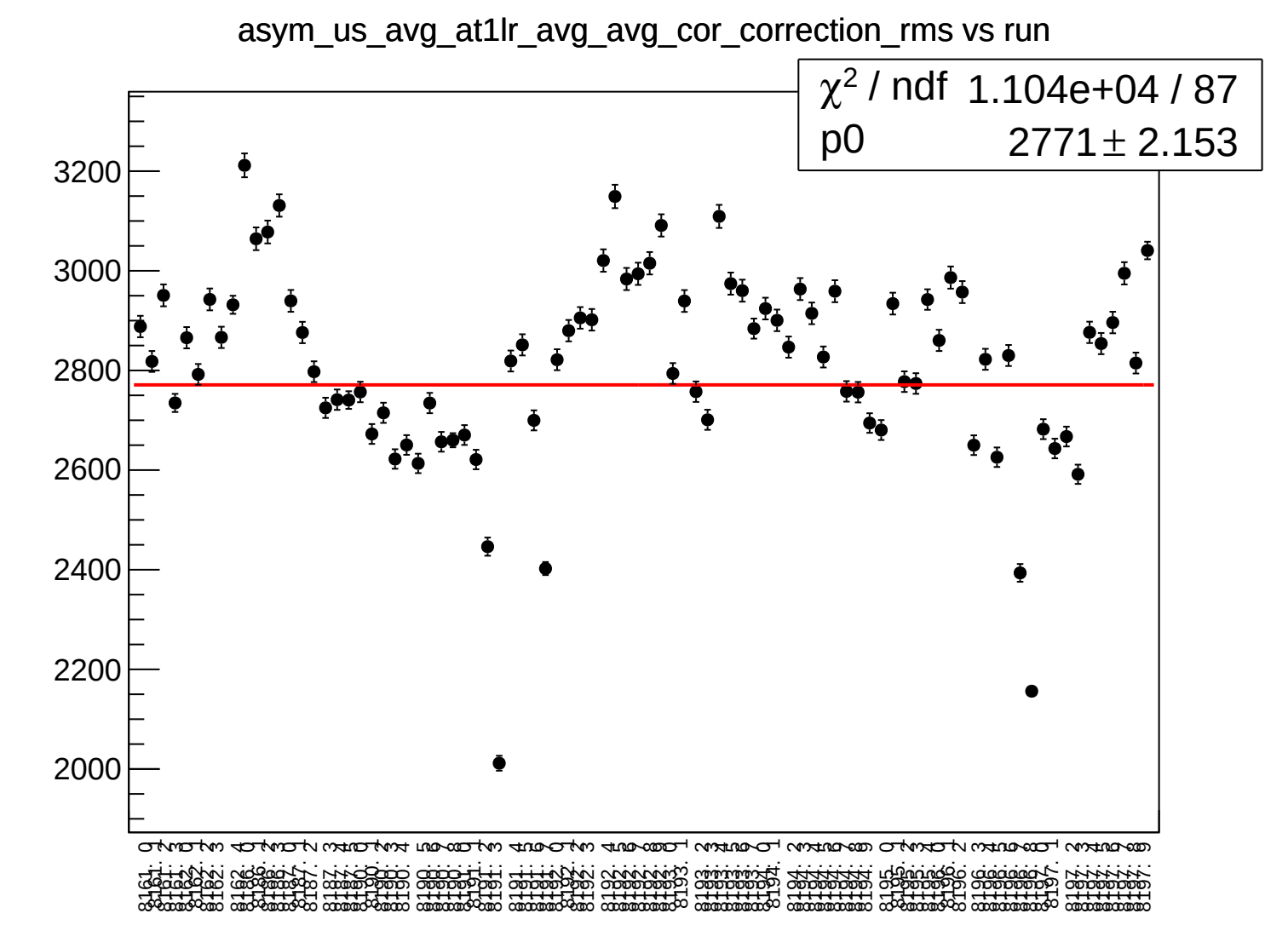

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 76.22 / 87
p0 −32.2 ± 2396
pull
Entries 88
Mean −889.4
Std Dev 0

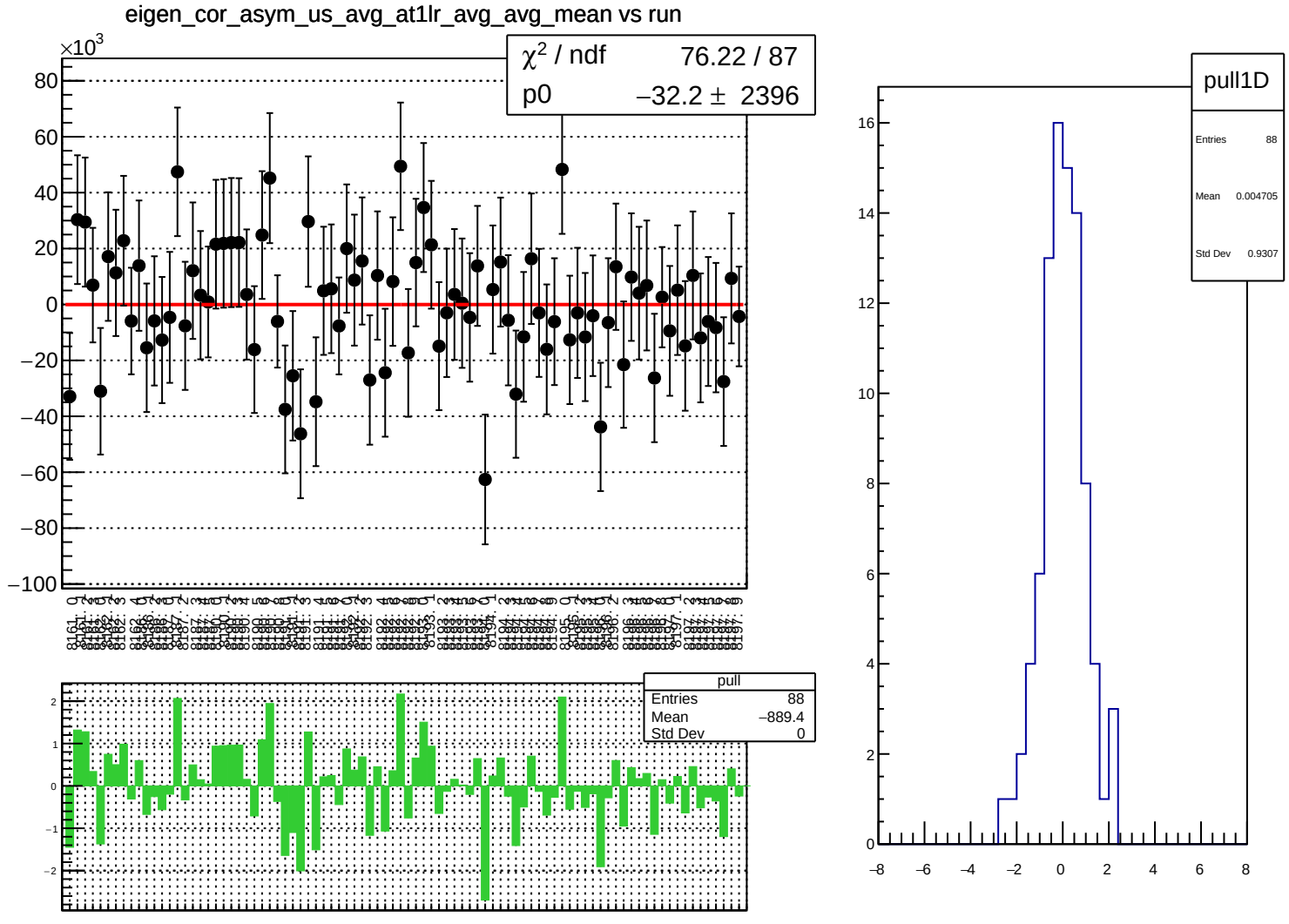

pull1D
Entries 88
Mean 0.004705
Std Dev 0.9307

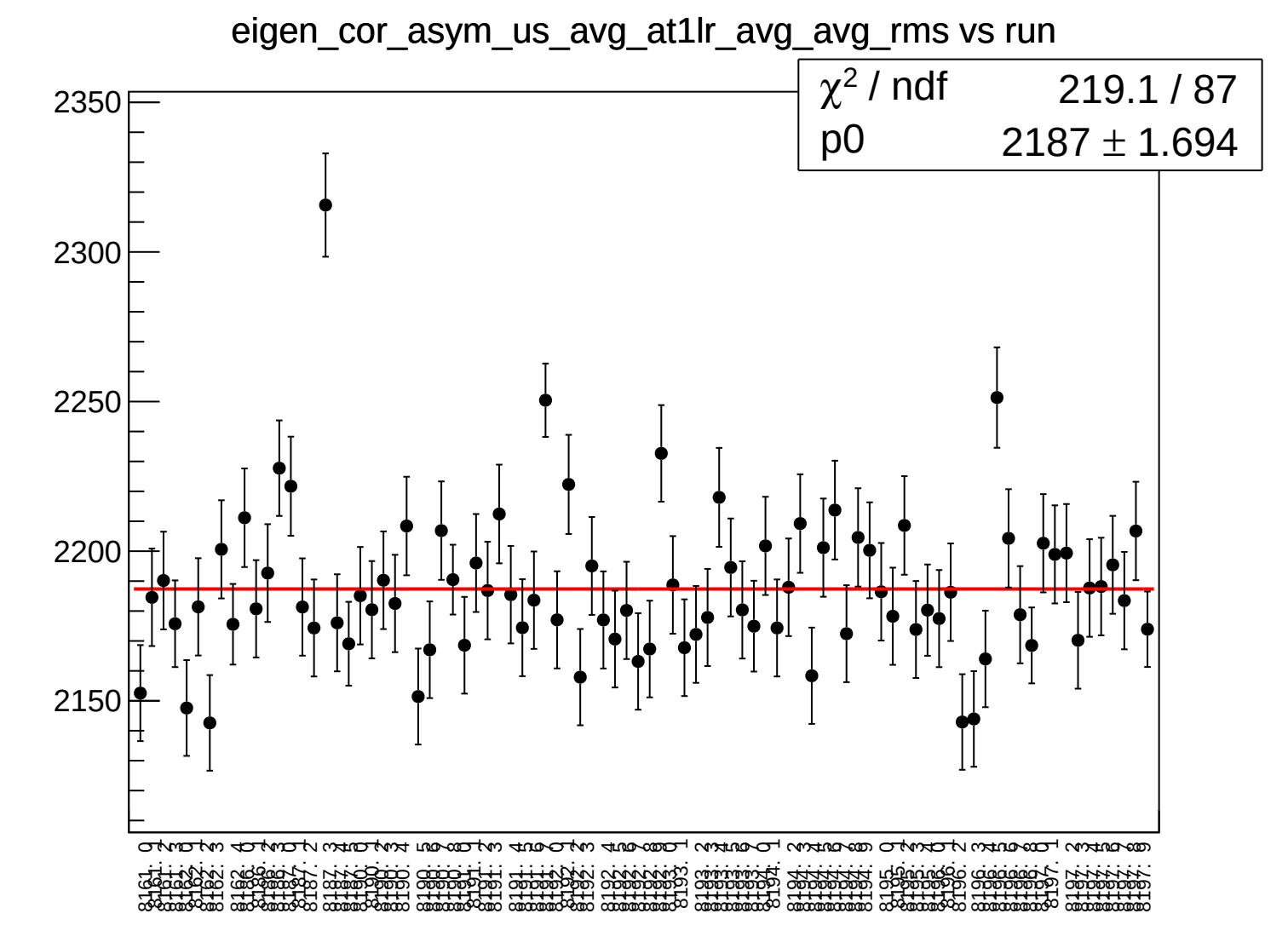

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 219.1 / 87
p0 2187 ± 1.694
2350
2300
2250
2200
2150

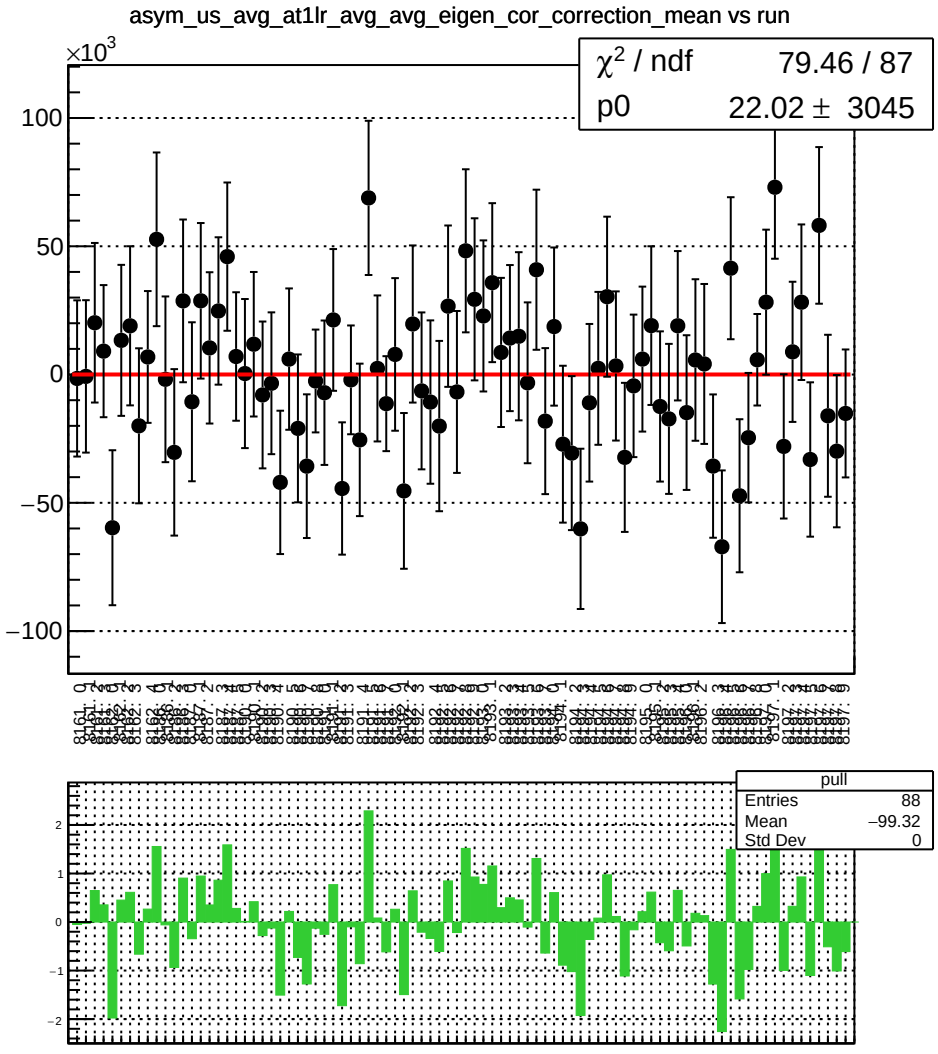

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.46 / 87
p0 22.02 ± 3045
100
50
0
−50
−100
pull
Entries 88
Mean −99.32
Std Dev 0
2
1
0
−1
−2

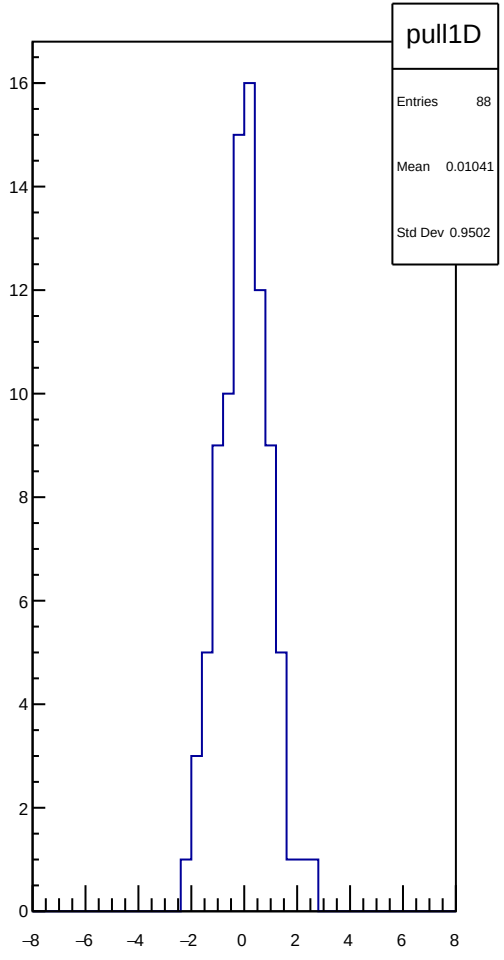

pull1D
Entries 88
Mean 0.01041
Std Dev 0.9502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

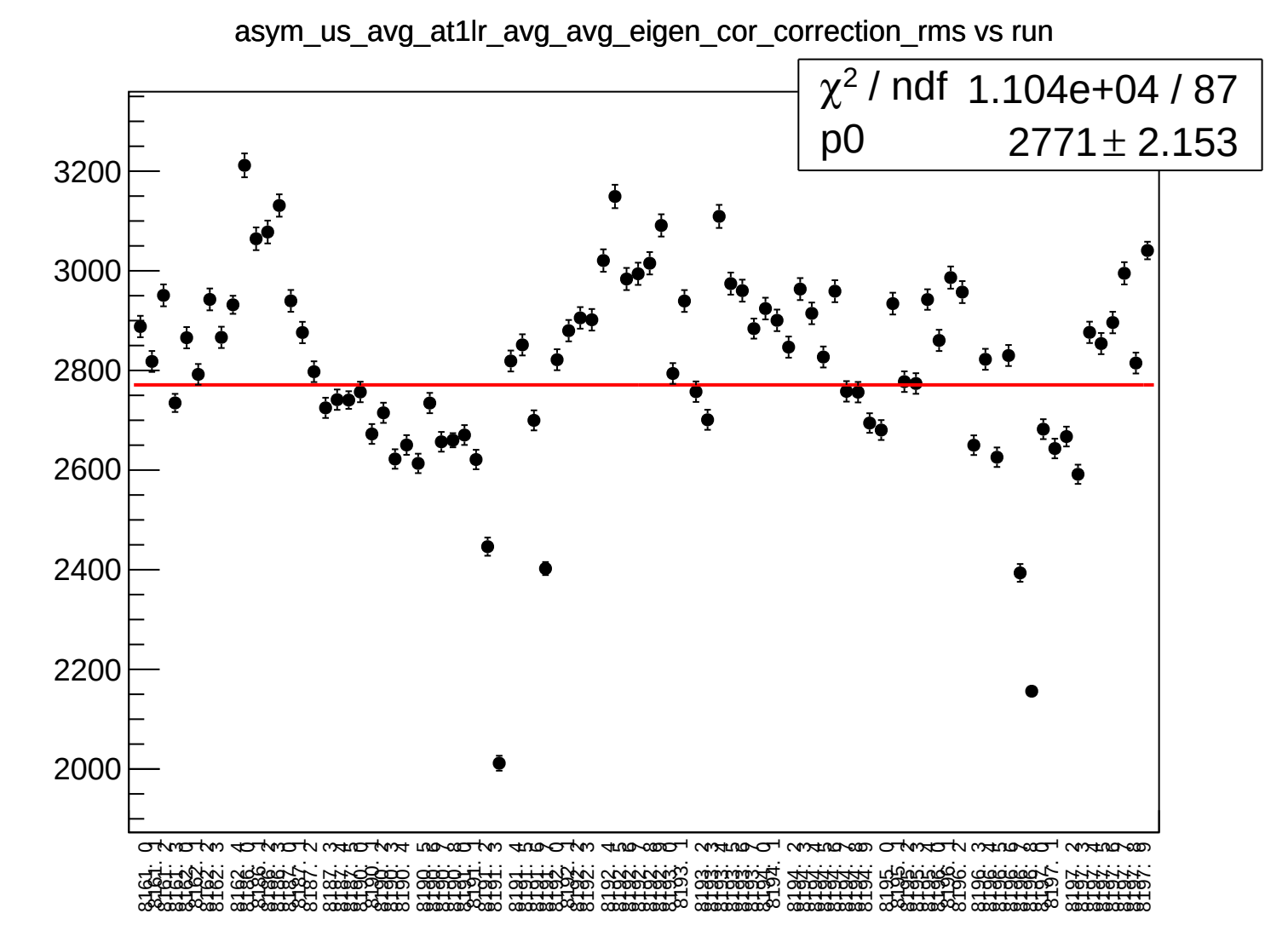

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.104e+04 / 87
p0 2771 ± 2.153
3200
3000
2800
2600
2400
2200
2000

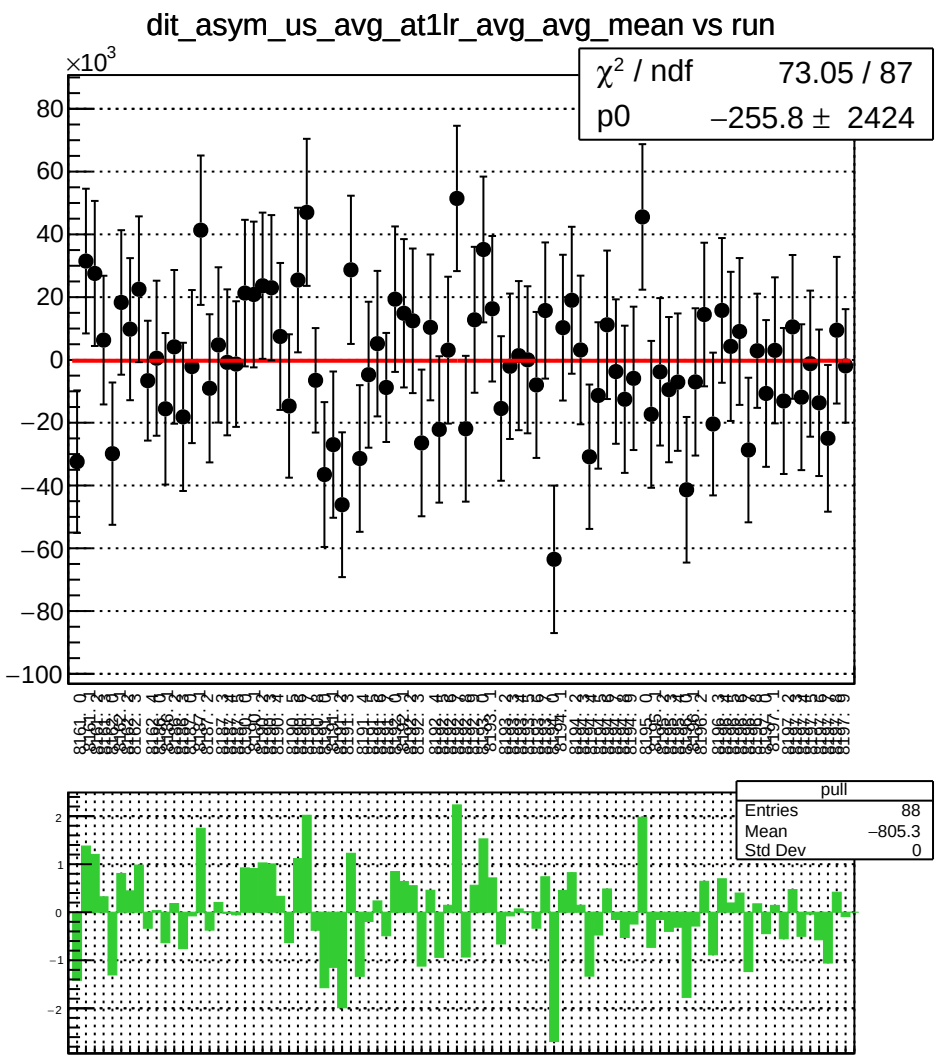

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 76.22 / 87
p0 −32.2 ± 2396
pull
Entries 88
Mean −889.4
Std Dev 0
pull1D
Entries 88
Mean 0.004705
Std Dev 0.9307

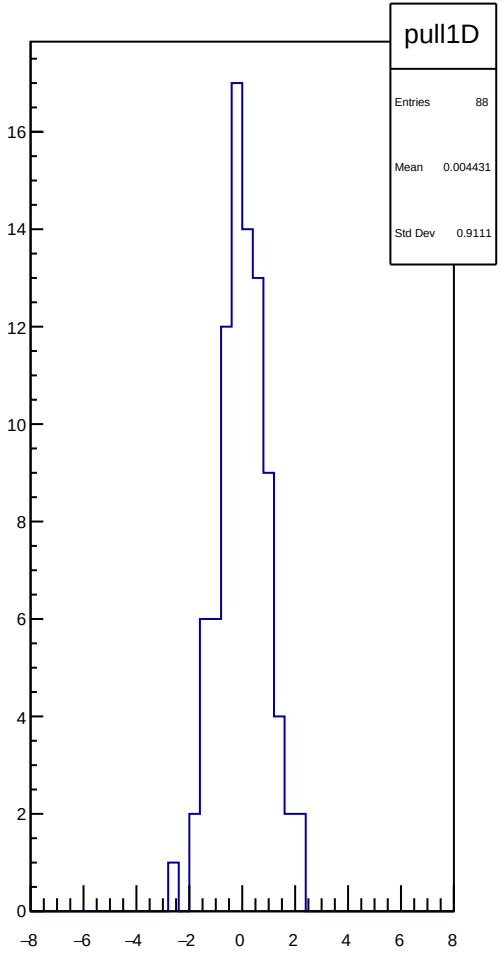

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 219.1 / 87
p0 2187 ± 1.694
2350
2300
2250
2200
2150

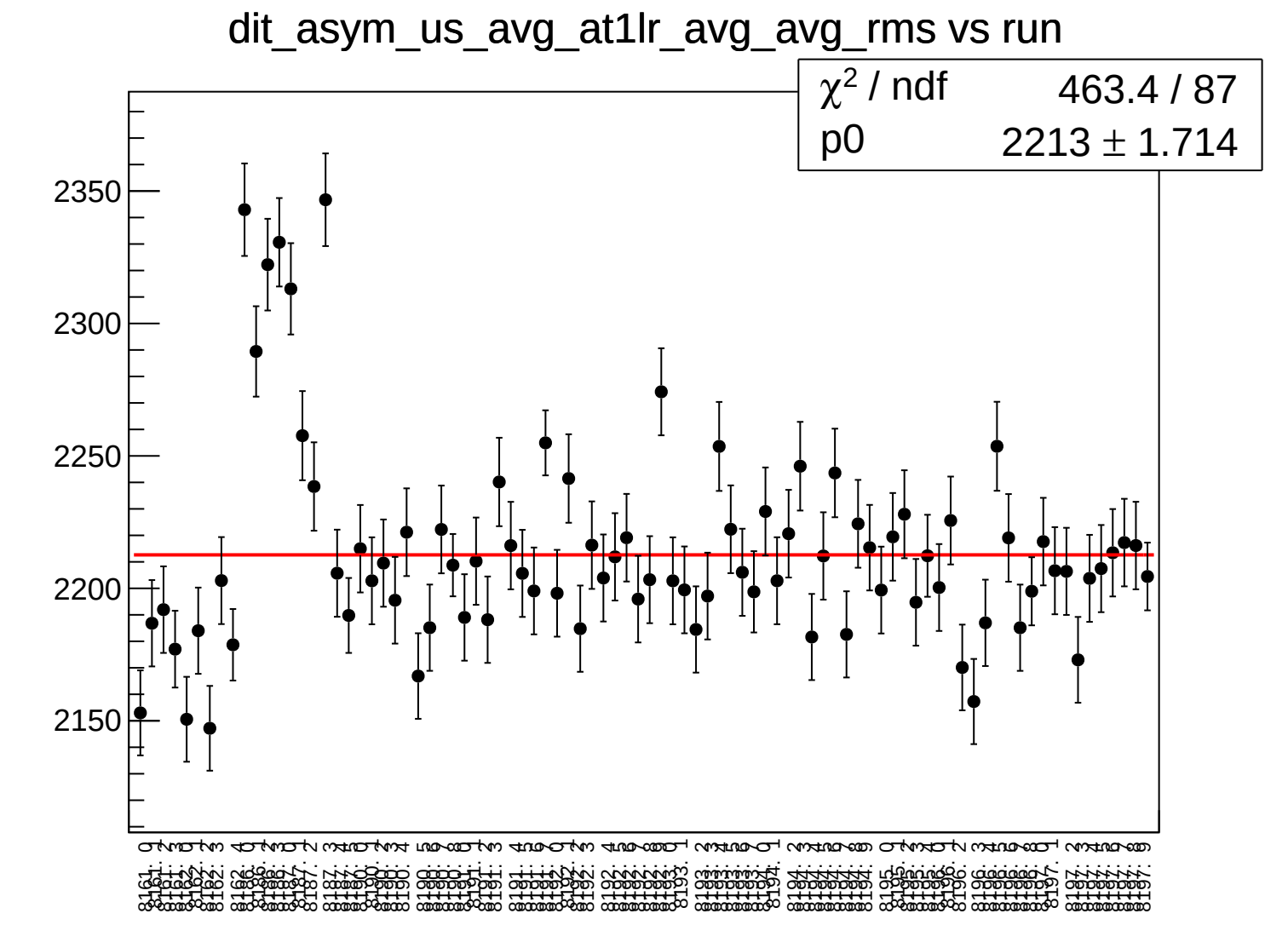

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.46 / 87
p0 22.02 ± 3045
100
50
0
−50
−100
pull
Entries 88
Mean −99.32
Std Dev 0
2
1
0
−1
−2

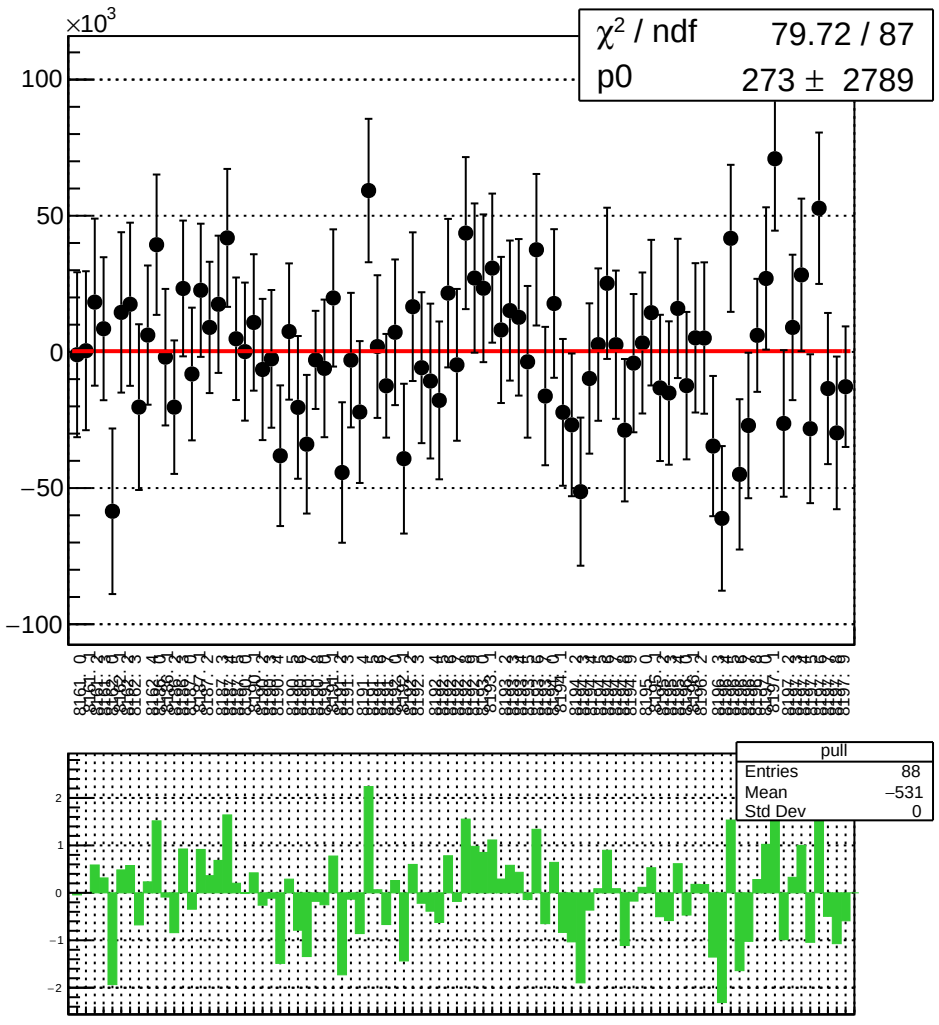

pull1D
Entries 88
Mean 0.01041
Std Dev 0.9502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

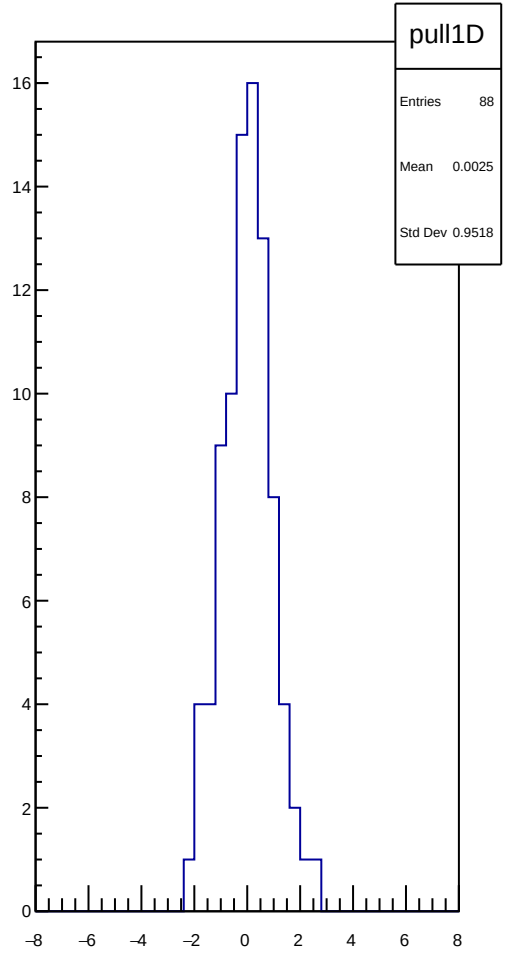

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.104e+04 / 87
p0 2771 ± 2.153
3200
3000
2800
2600
2400
2200
2000

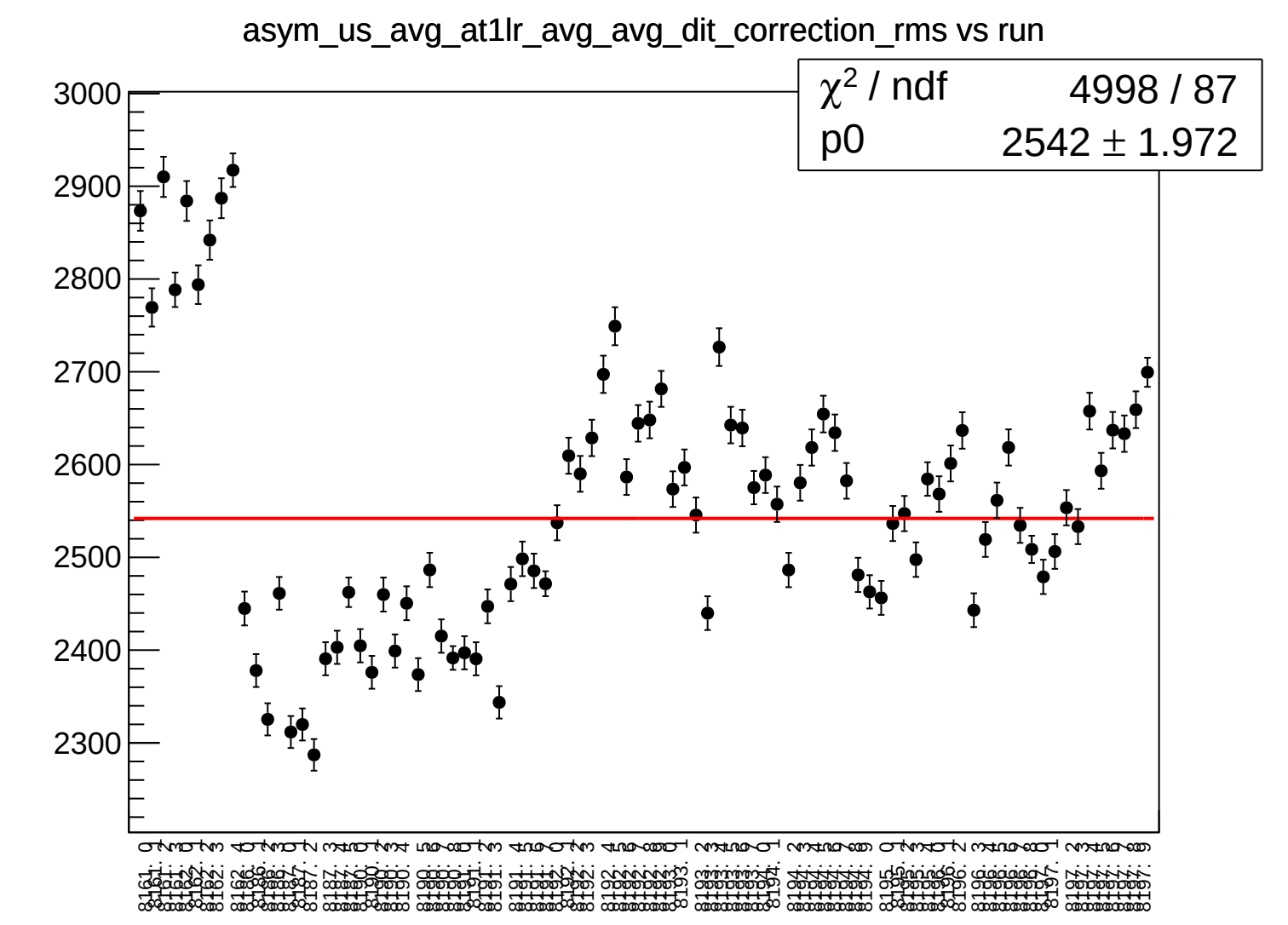

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 73.05 / 87
p0 −255.8 ± 2424
pull
Entries 88
Mean −805.3
Std Dev 0

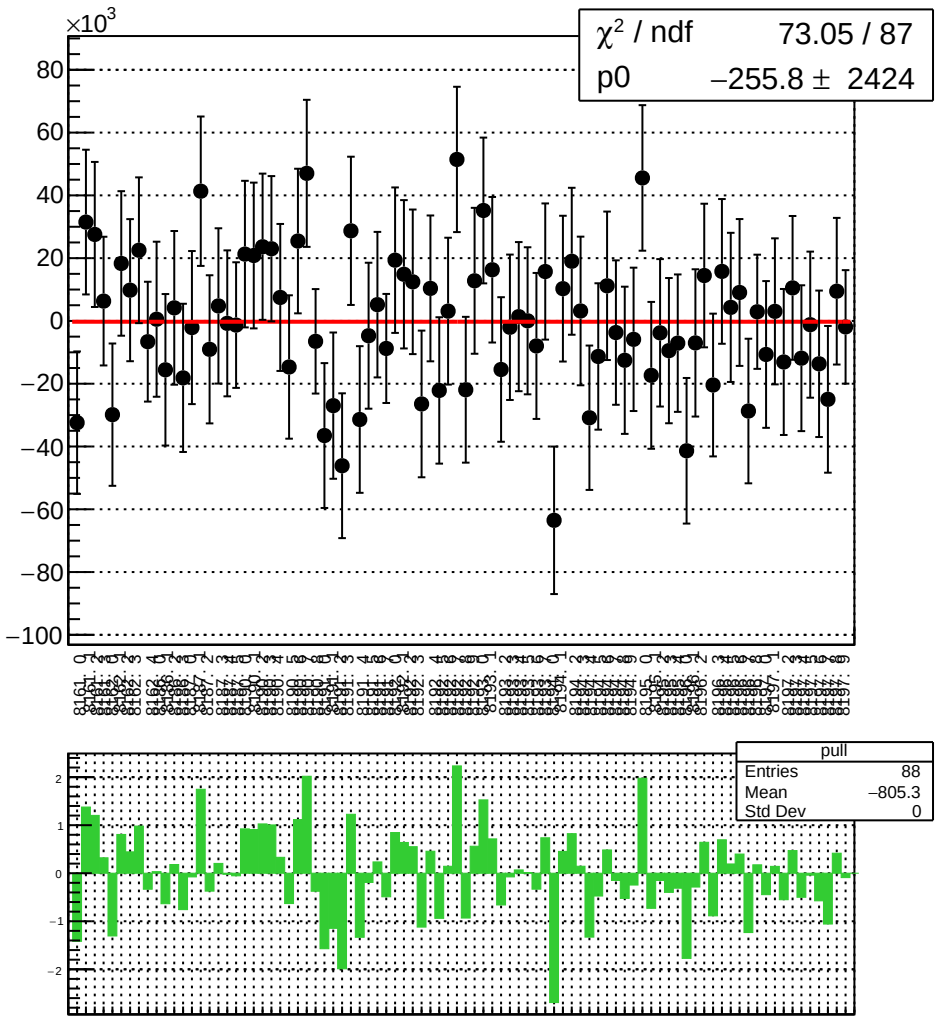

pull1D
Entries 88
Mean 0.004431
Std Dev 0.9111

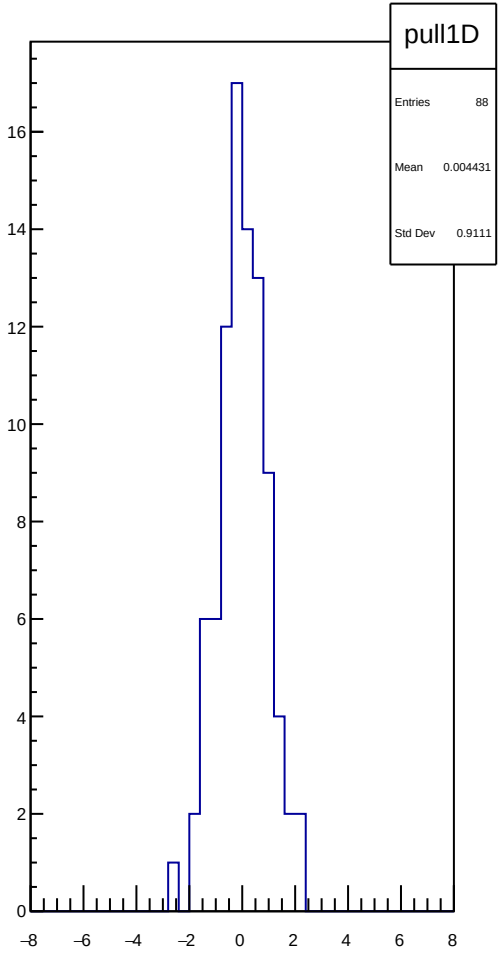

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 463.4 / 87
p0 2213 ± 1.714
2350
2300
2250
2200
2150

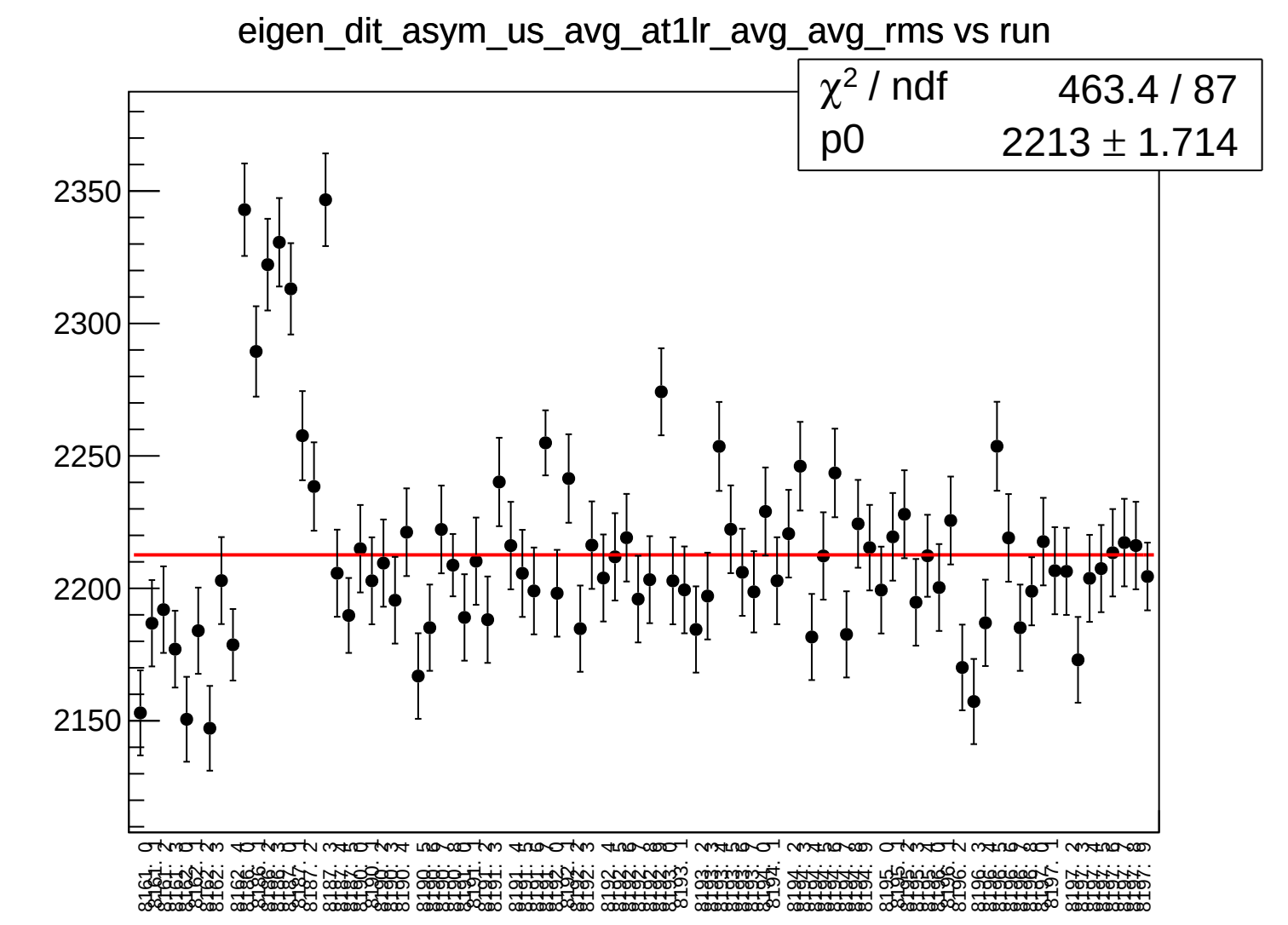

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.72 / 87
p0 273 ± 2789
100
50
0
−50
−100
pull
Entries 88
Mean −531
Std Dev 0
2
1
0
−1
−2

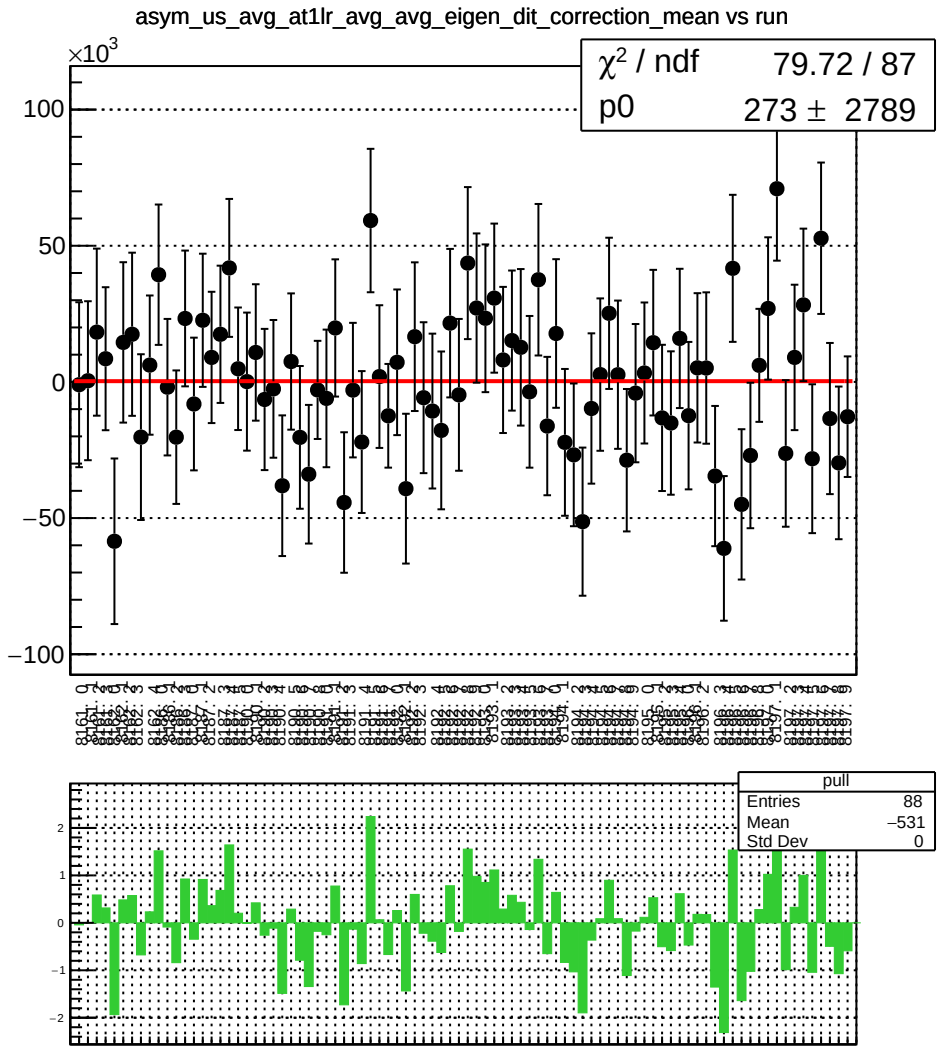

pull1D
Entries 88
Mean 0.0025
Std Dev 0.9518
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

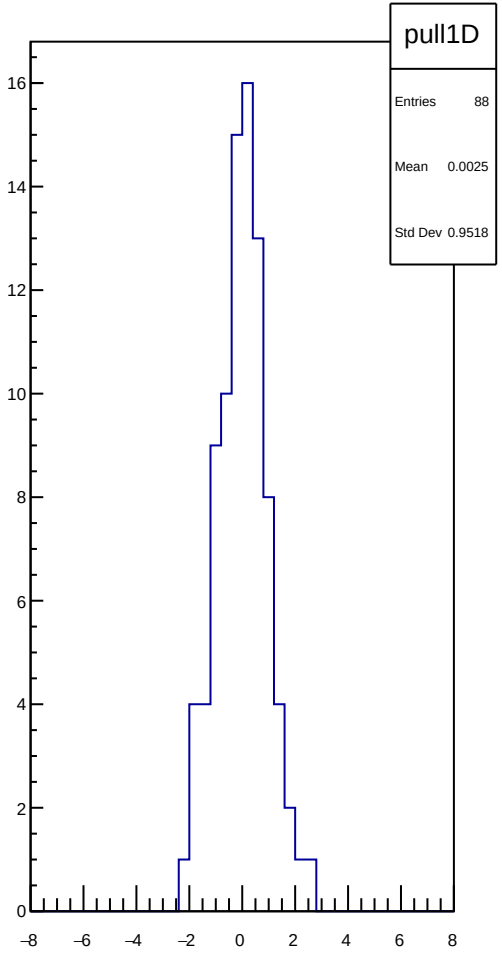

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4998 / 87
p0 2542 ± 1.972
3000
2900
2800
2700
2600
2500
2400
2300

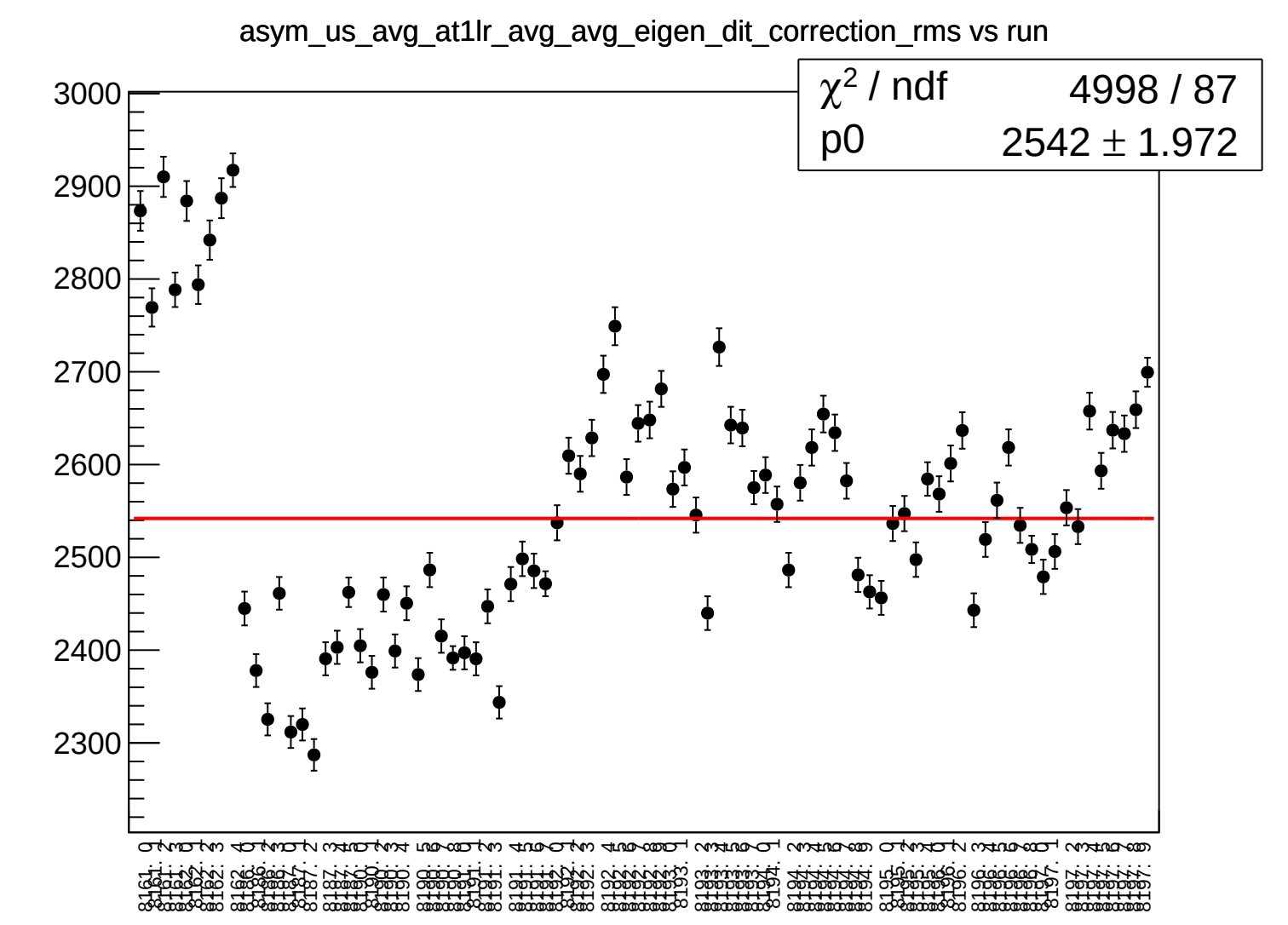

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 73.05 / 87
p0 −255.8 ± 2424
×10³
pull
Entries 88
Mean −805.3
Std Dev 0

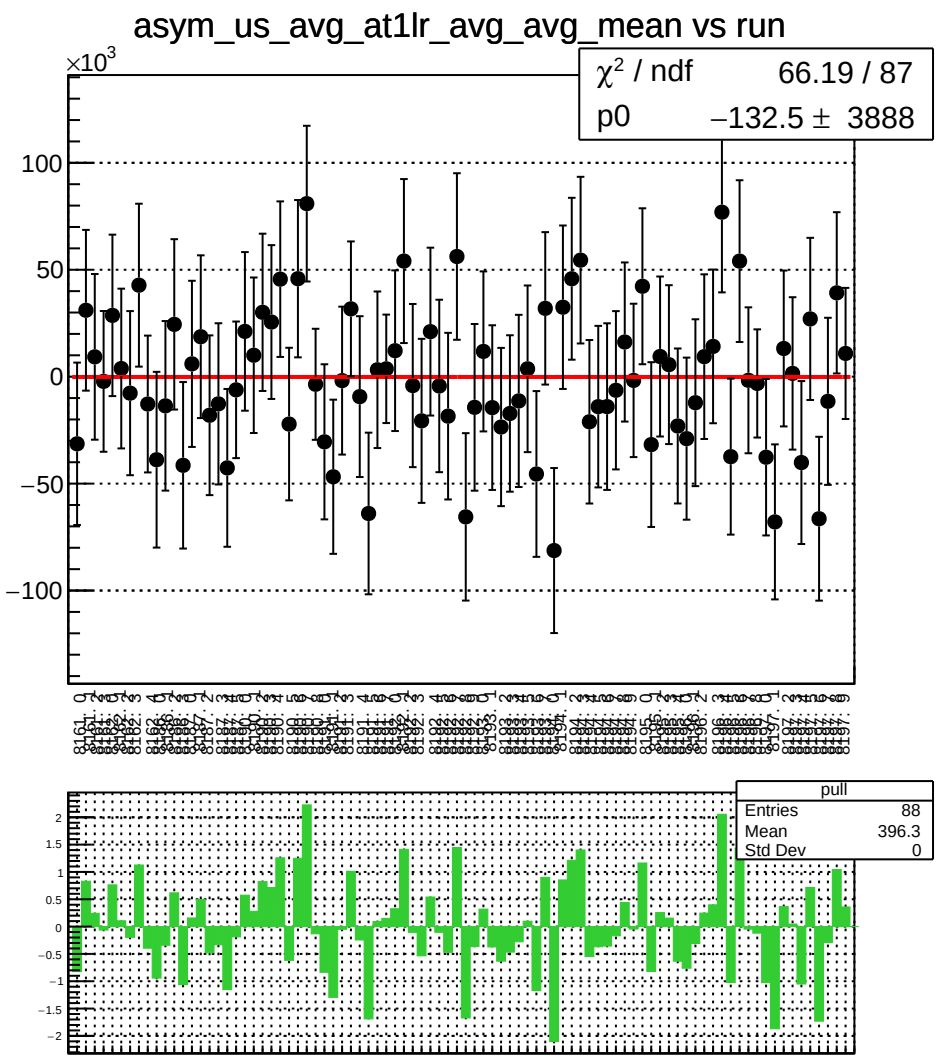

pull1D
Entries 88
Mean 0.004431
Std Dev 0.9111

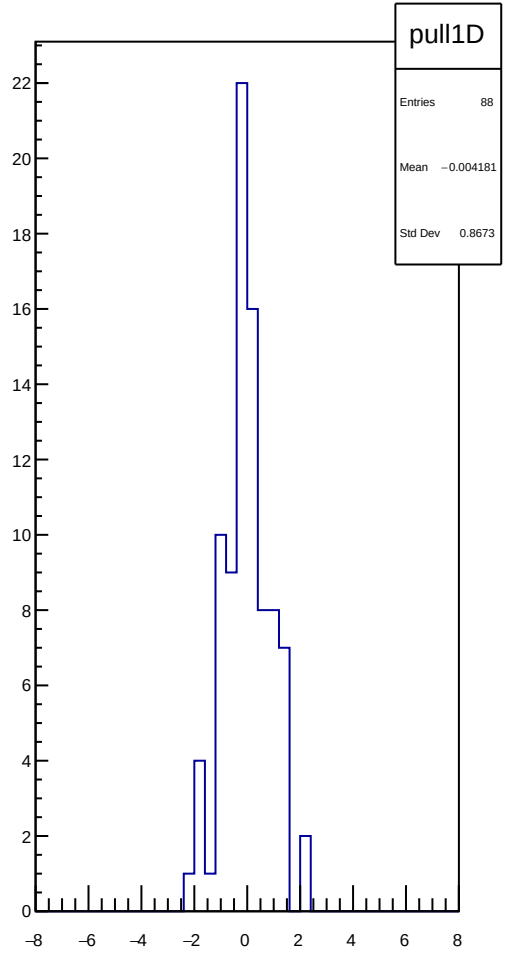

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 463.4 / 87
p0 2213 ± 1.714
2350
2300
2250
2200
2150

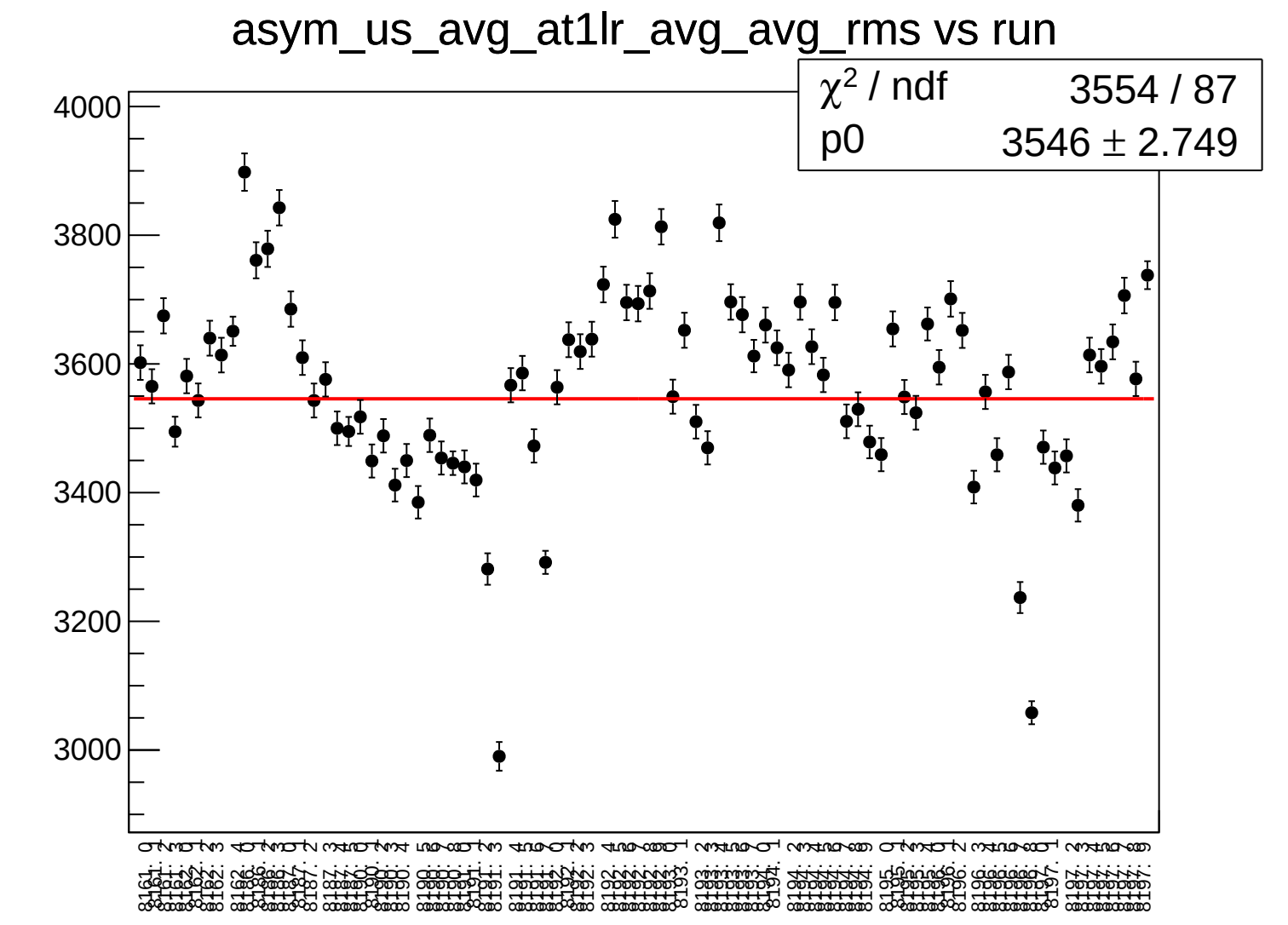

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.72 / 87
p0 273 ± 2789
100
50
0
−50
−100
pull
Entries 88
Mean −531
Std Dev 0
2
1
0
−1
−2

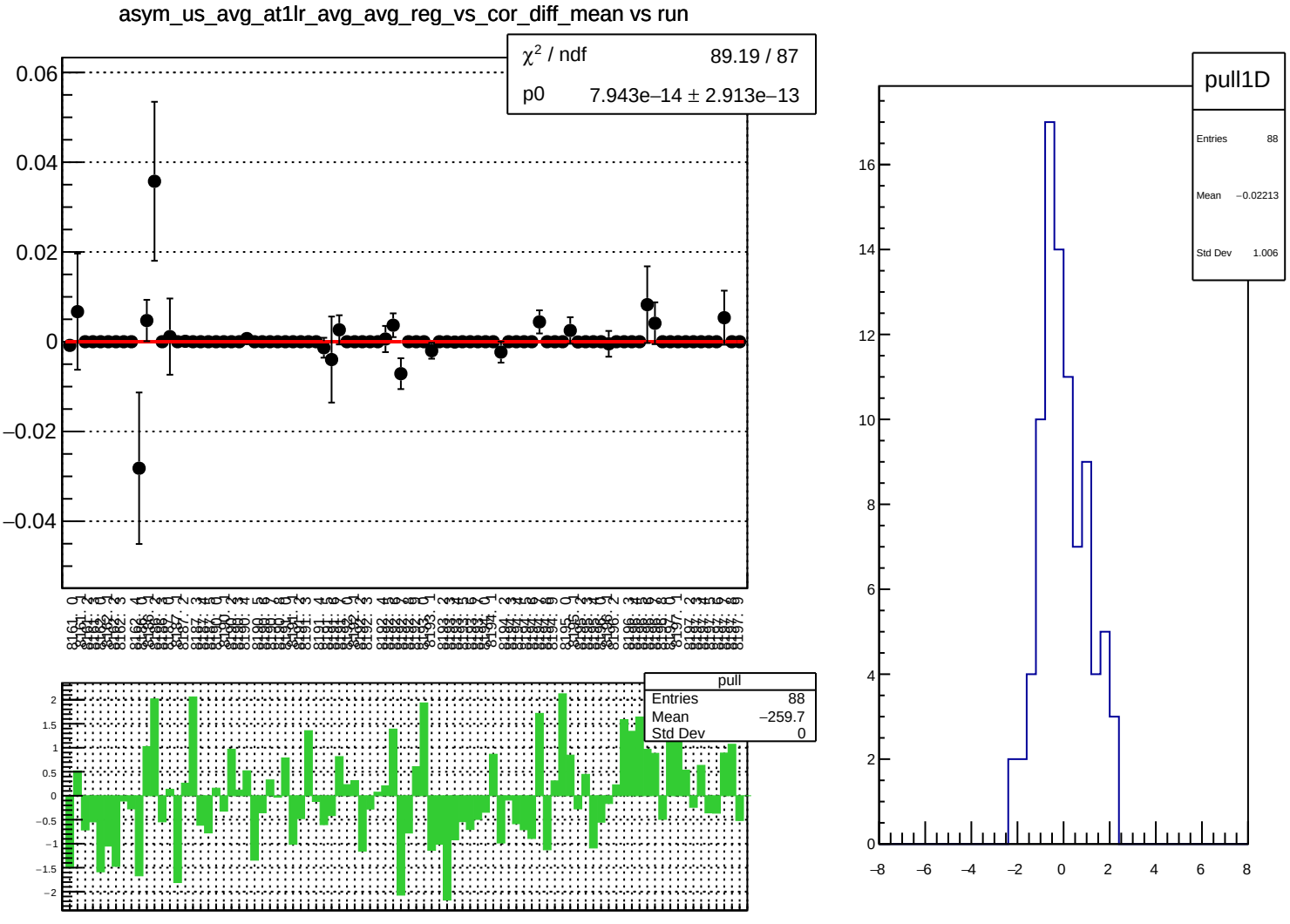

pull1D
Entries 88
Mean 0.0025
Std Dev 0.9518
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

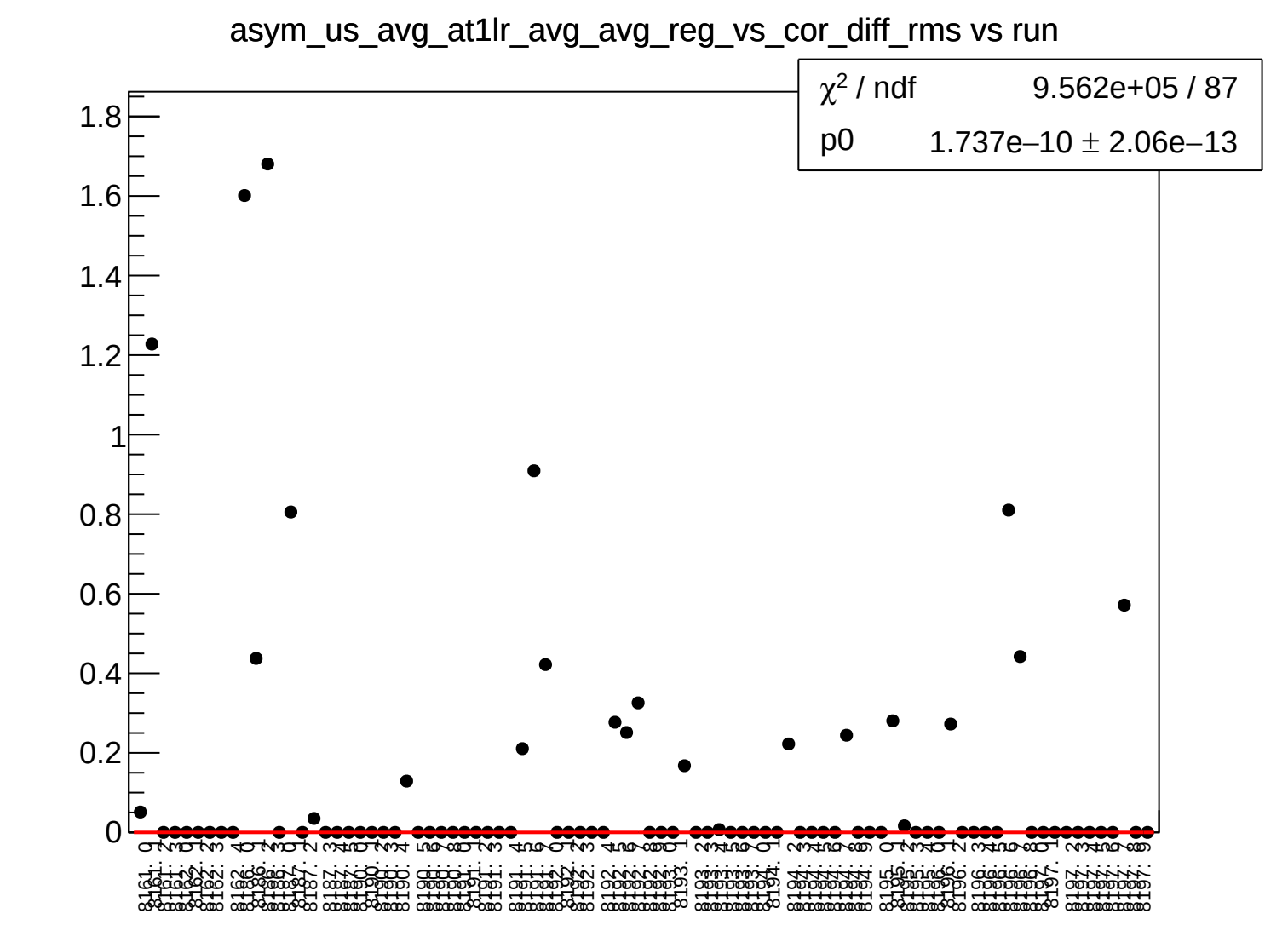

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4998 / 87
p0 2542 ± 1.972
3000
2900
2800
2700
2600
2500
2400
2300

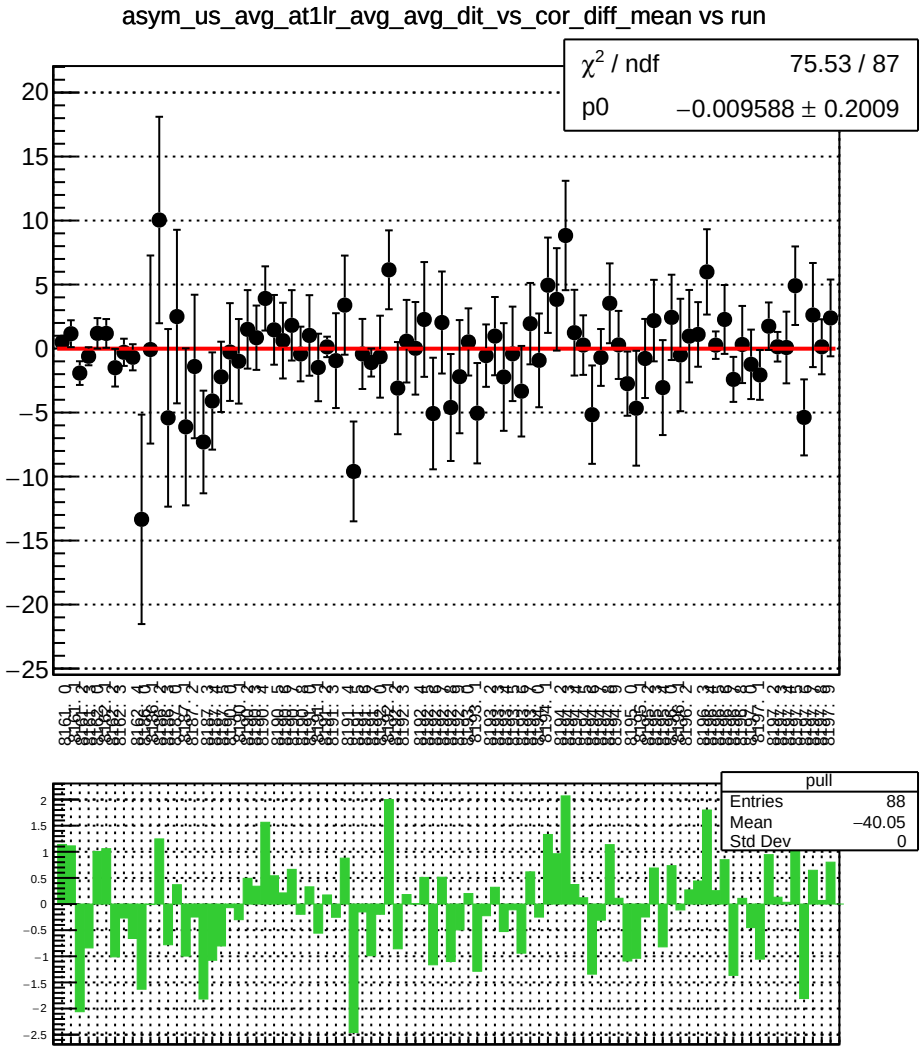

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 66.19 / 87
p0 −132.5 ± 3888
100
50
0
−50
−100
pull
Entries 88
Mean 396.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

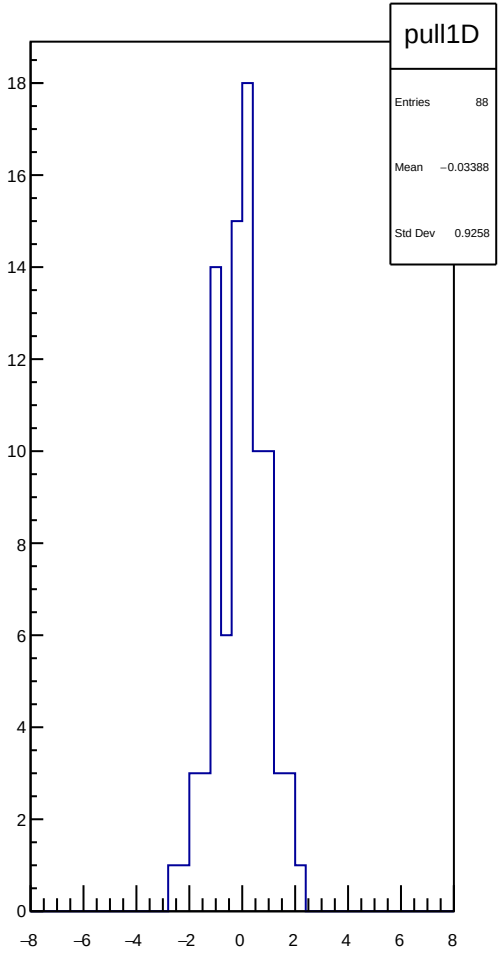

pull1D
Entries 88
Mean −0.004181
Std Dev 0.8673
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

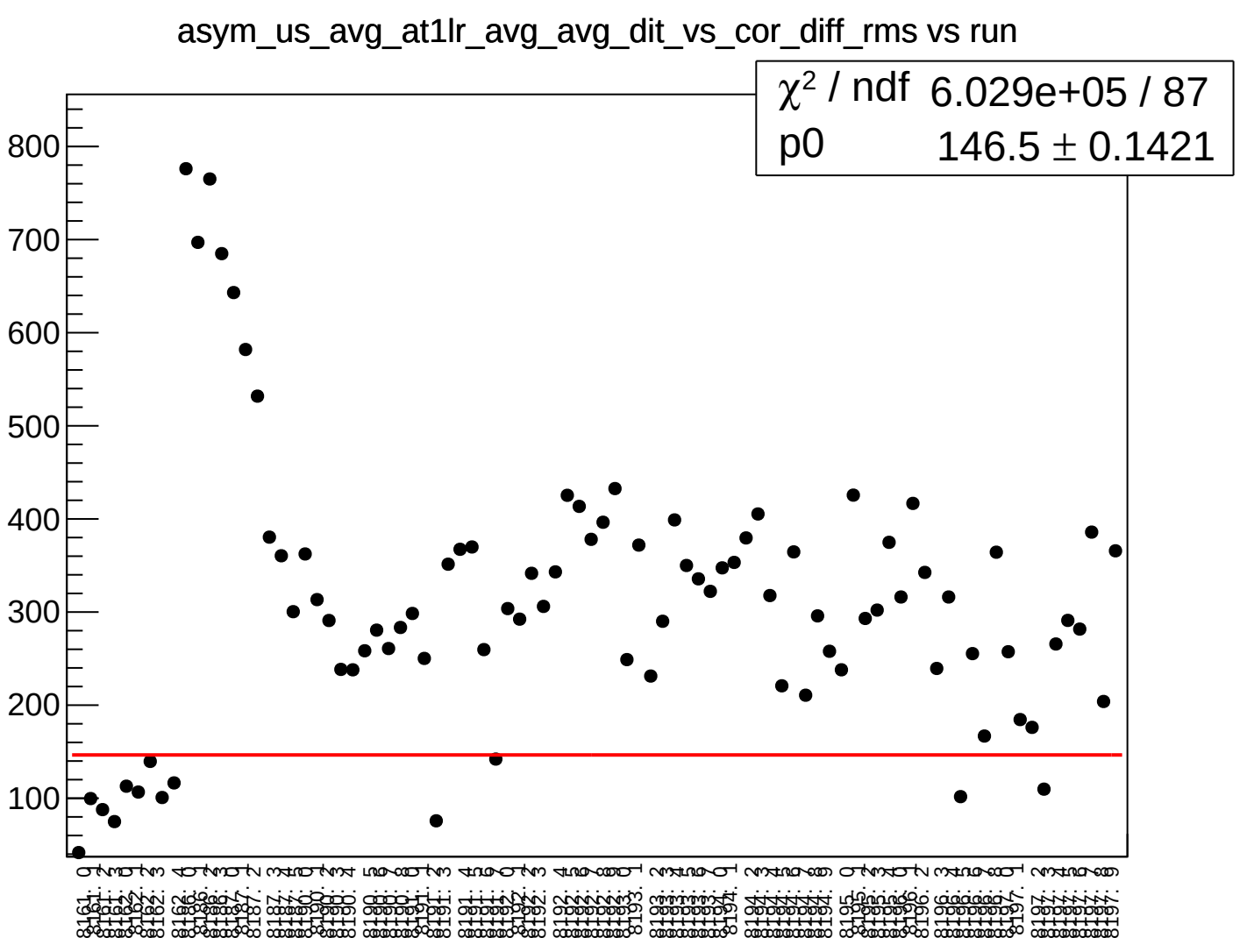

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 3554 / 87
p0 3546 ± 2.749
4000
3800
3600
3400
3200
3000

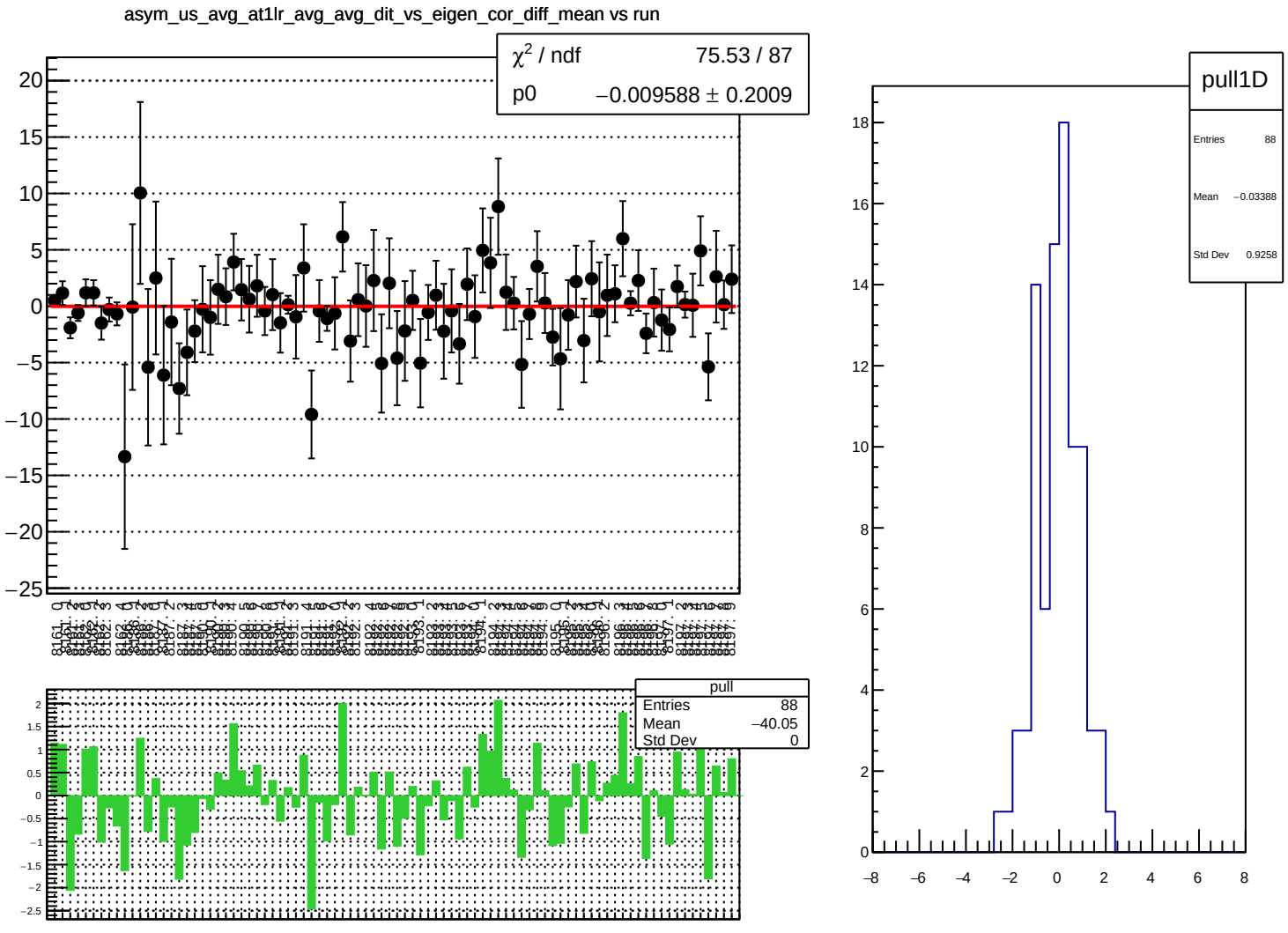

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.19 / 87
p0 7.943e−14 ± 2.913e−13
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean −259.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.02213
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

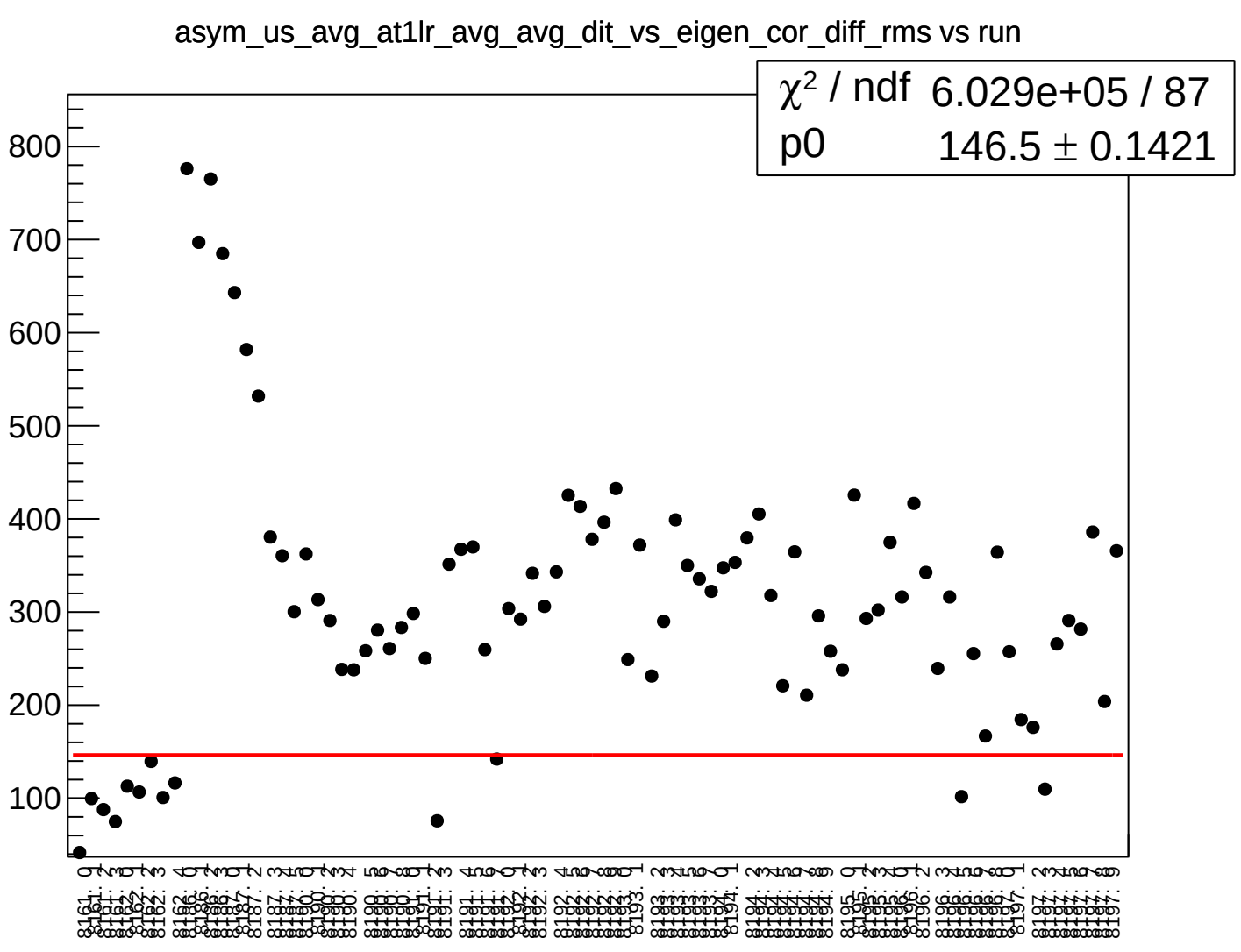

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.562e+05 / 87
p0 1.737e−10 ± 2.06e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

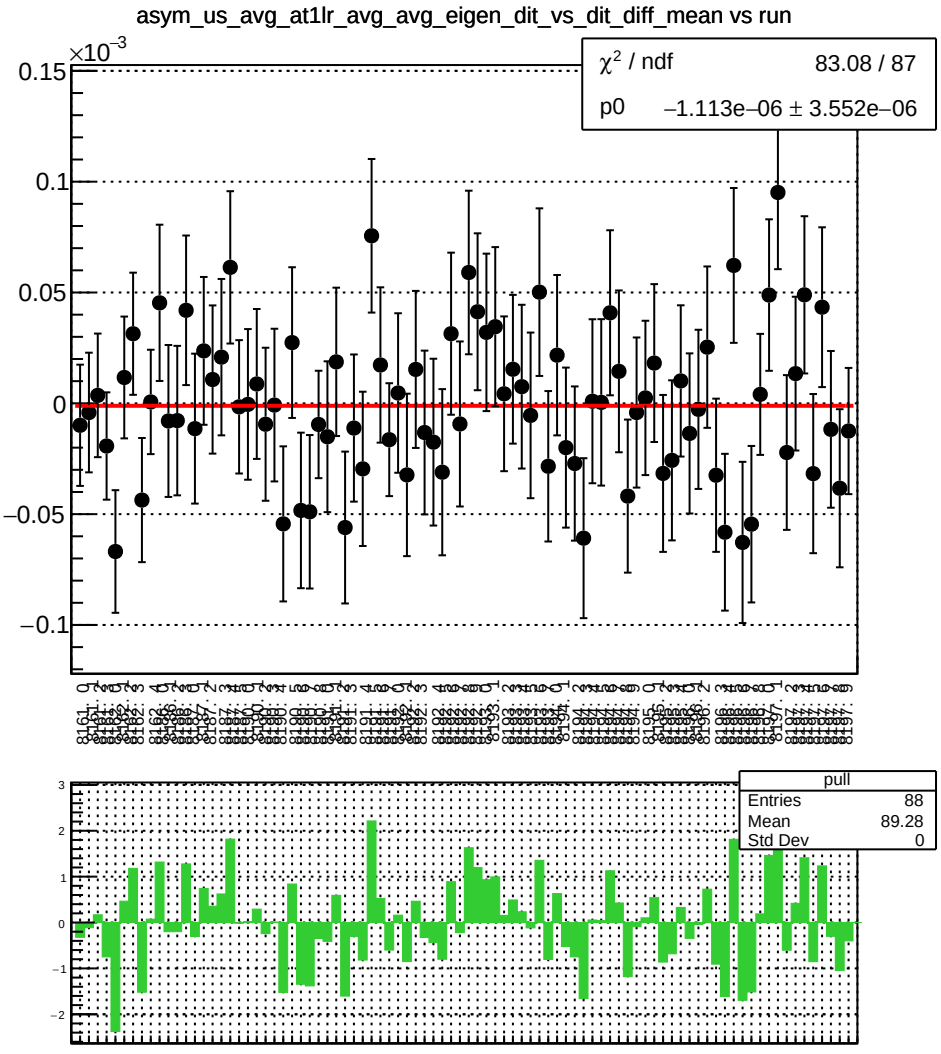

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.53 / 87
p0 −0.009588 ± 0.2009
pull
Entries 88
Mean −40.05
Std Dev 0

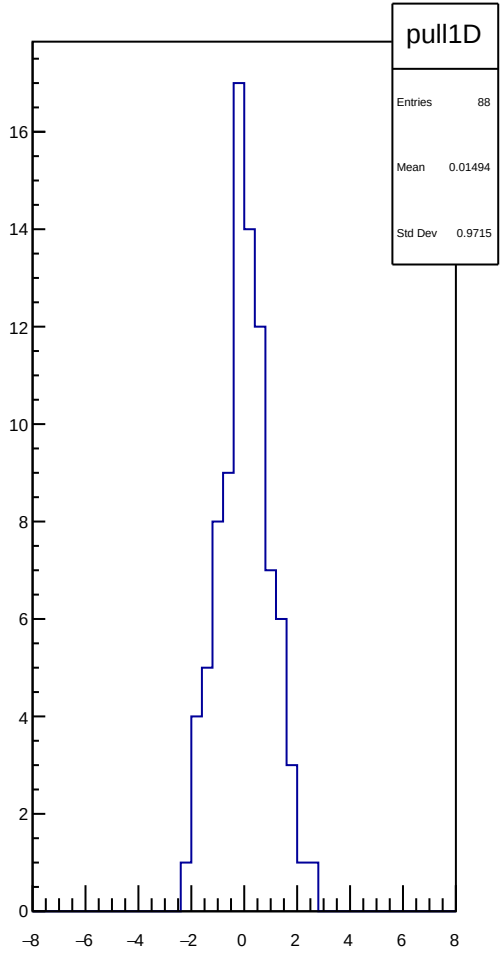

pull1D
Entries 88
Mean −0.03388
Std Dev 0.9258

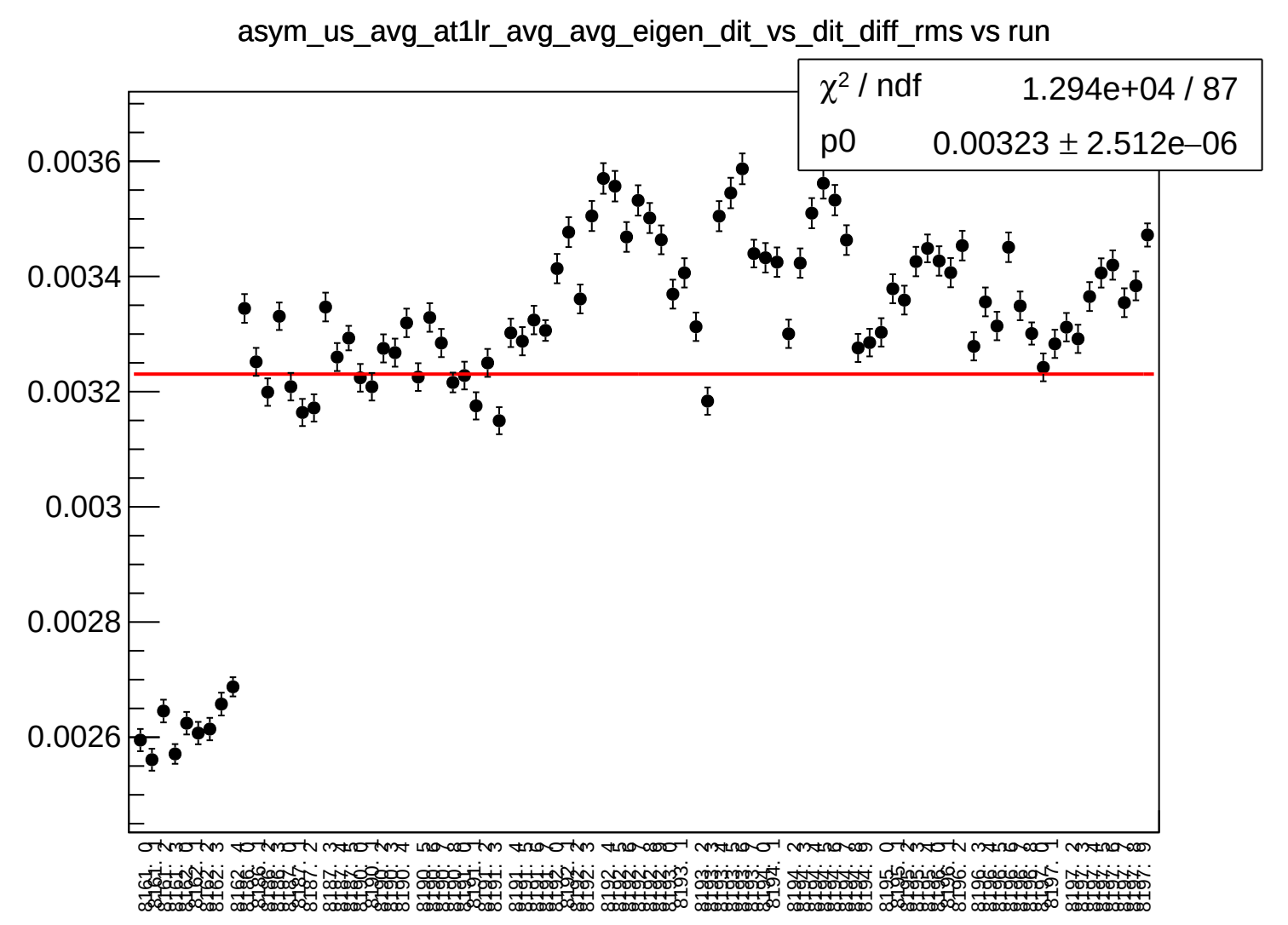

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.029e+05 / 87
p0 146.5 ± 0.1421
800
700
600
500
400
300
200
100

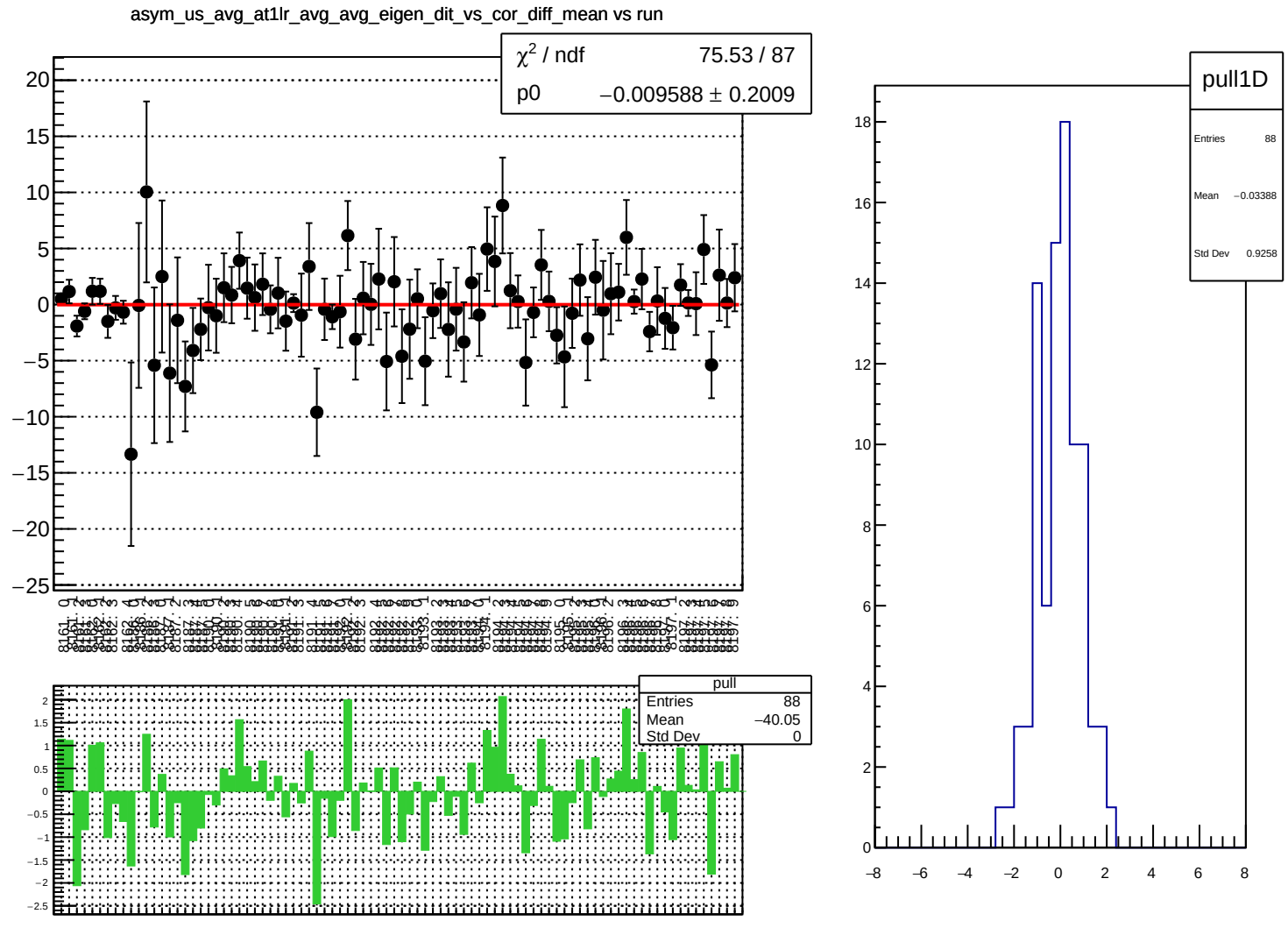

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.53 / 87
p0 −0.009588 ± 0.2009
pull
Entries 88
Mean −40.05
Std Dev 0
pull1D
Entries 88
Mean −0.03388
Std Dev 0.9258

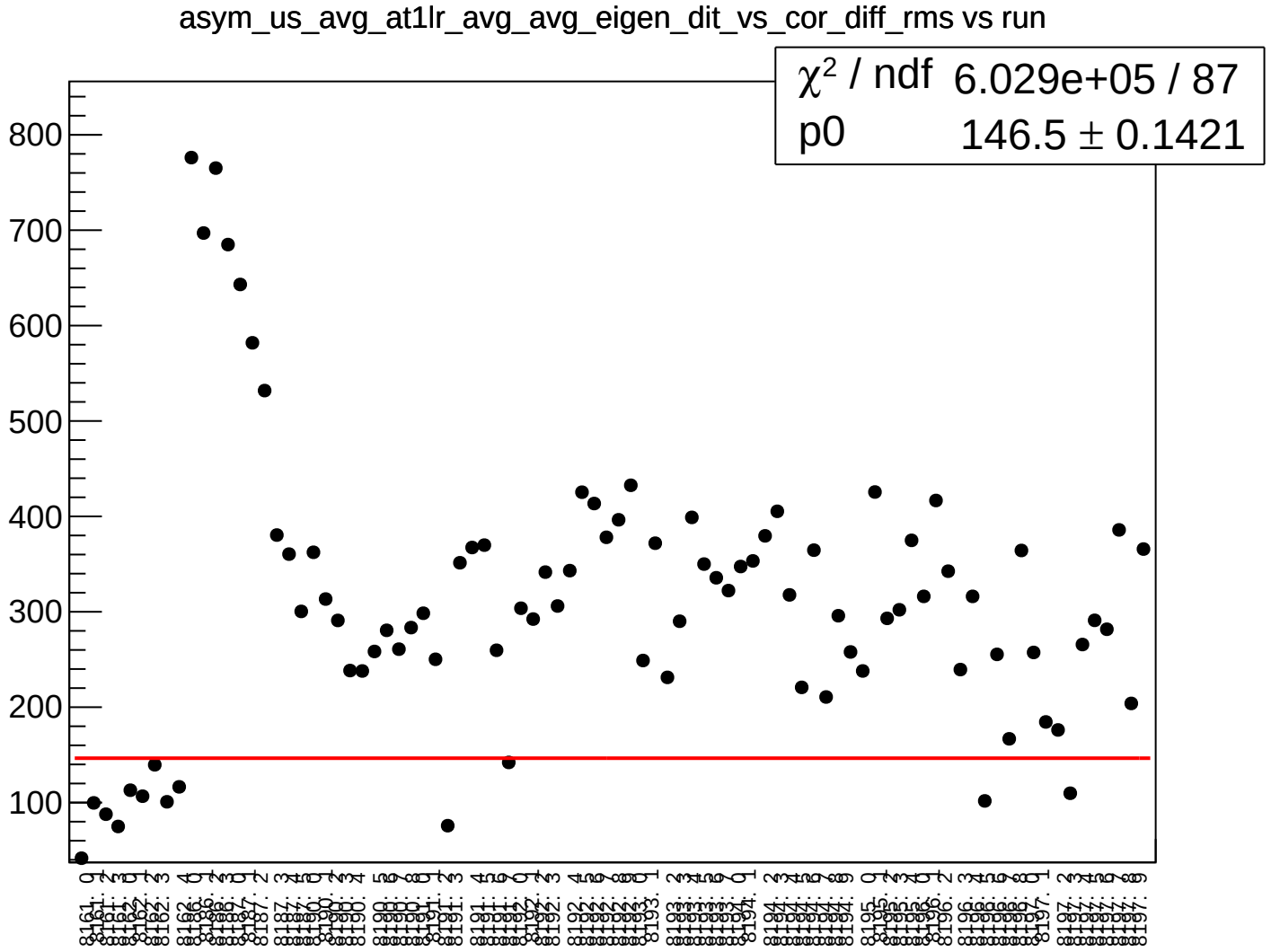

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.029e+05 / 87
p0 146.5 ± 0.1421
800
700
600
500
400
300
200
100

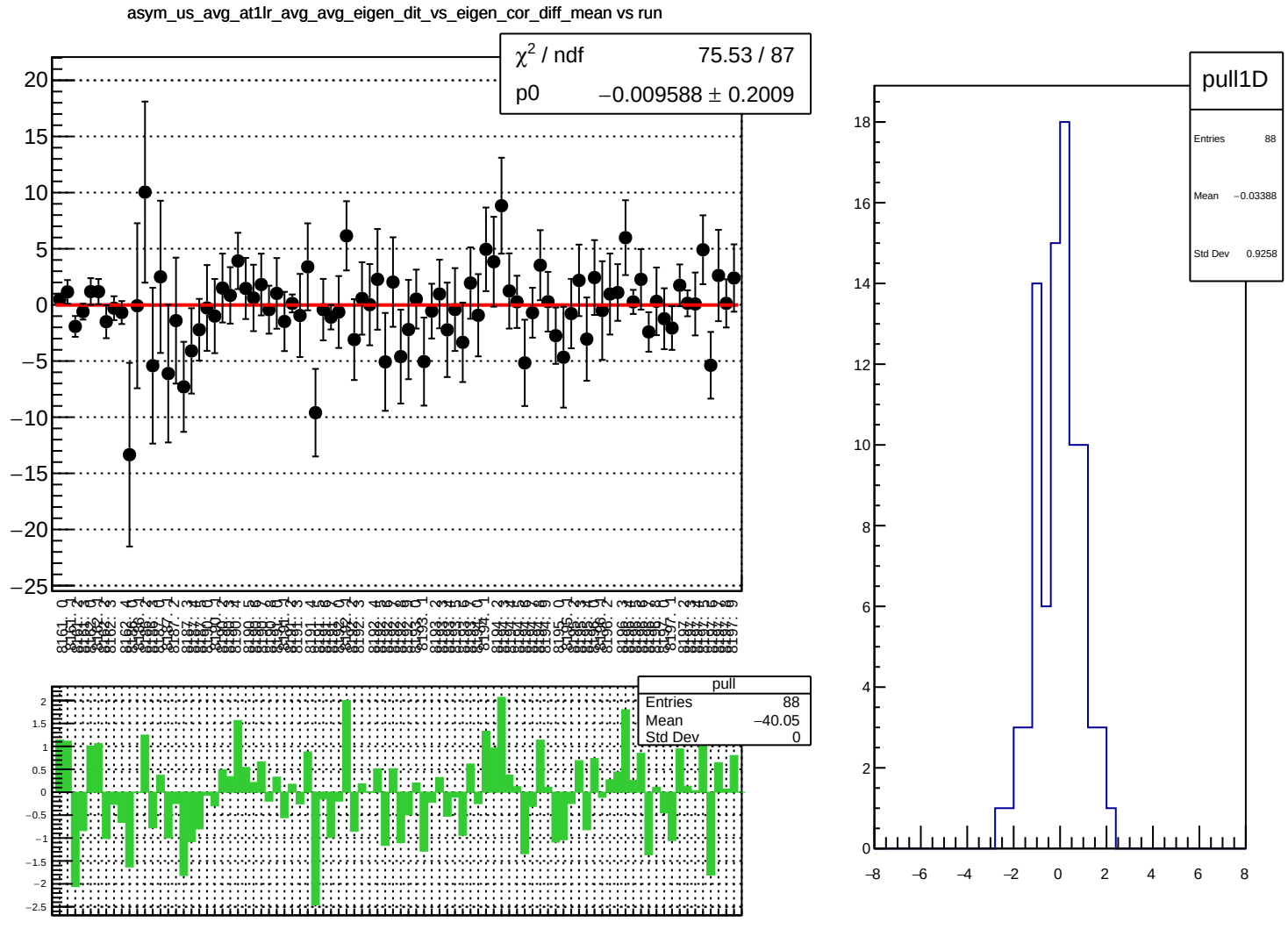

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.08 / 87
p0 −1.113e−06 ± 3.552e−06
pull
Entries 88
Mean 89.28
Std Dev 0

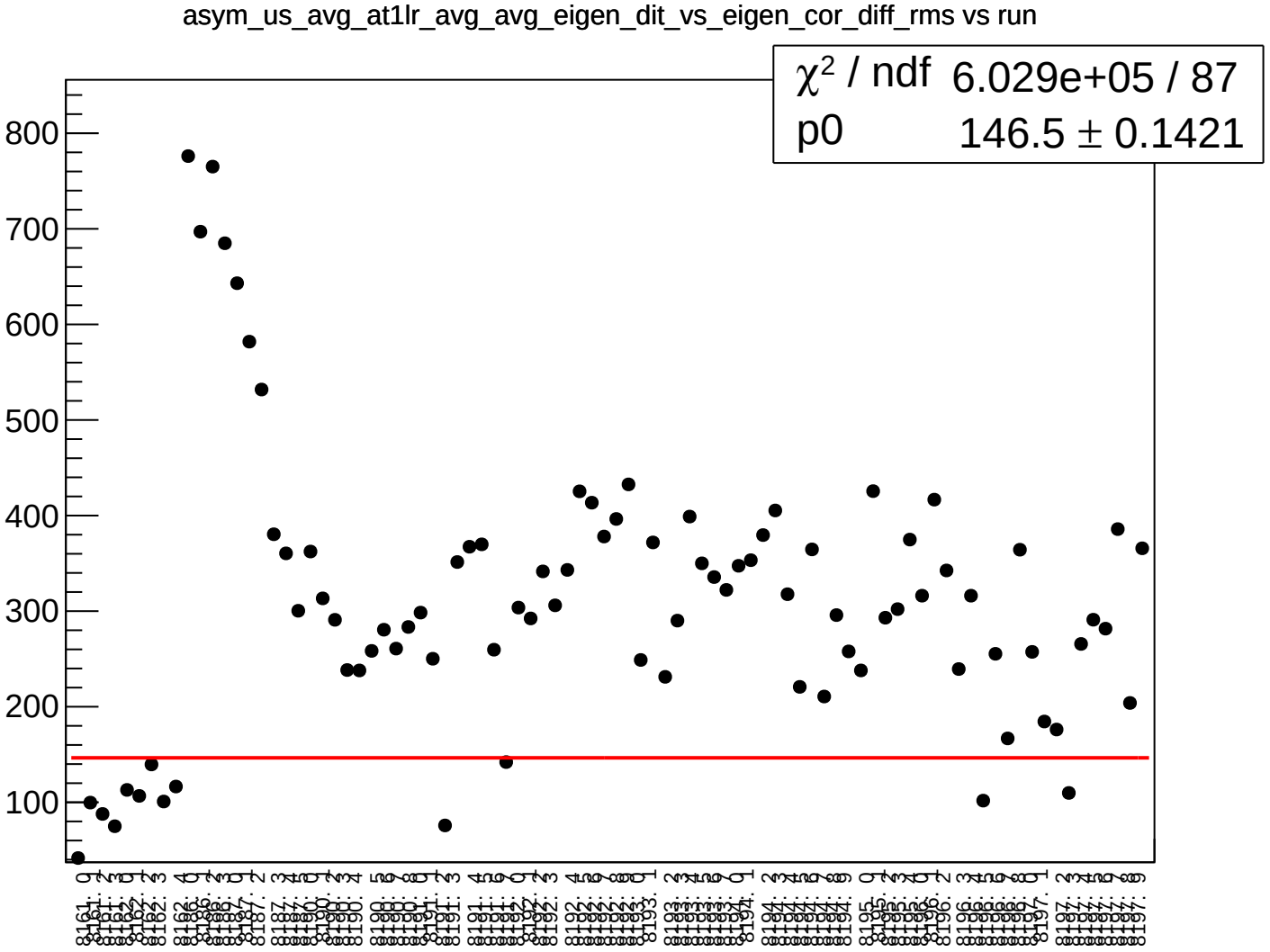

pull1D
Entries 88
Mean 0.01494
Std Dev 0.9715

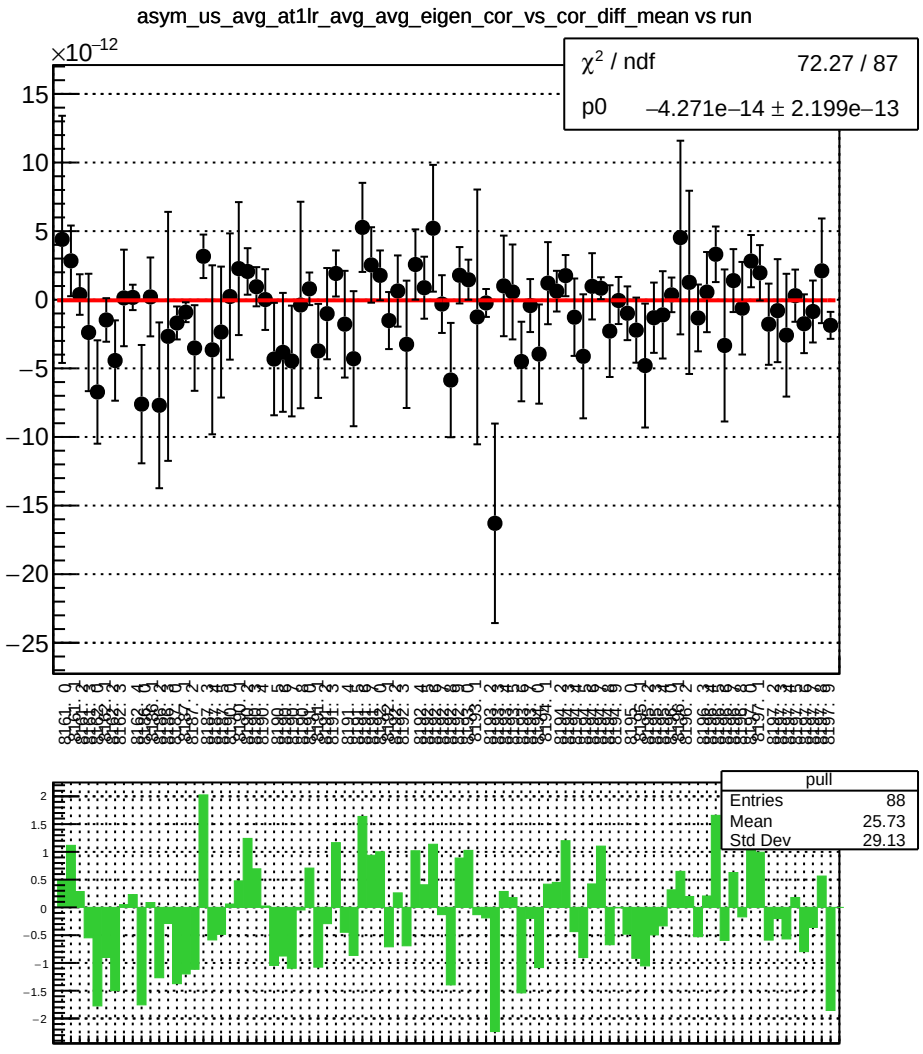

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.294e+04 / 87
p0 0.00323 ± 2.512e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

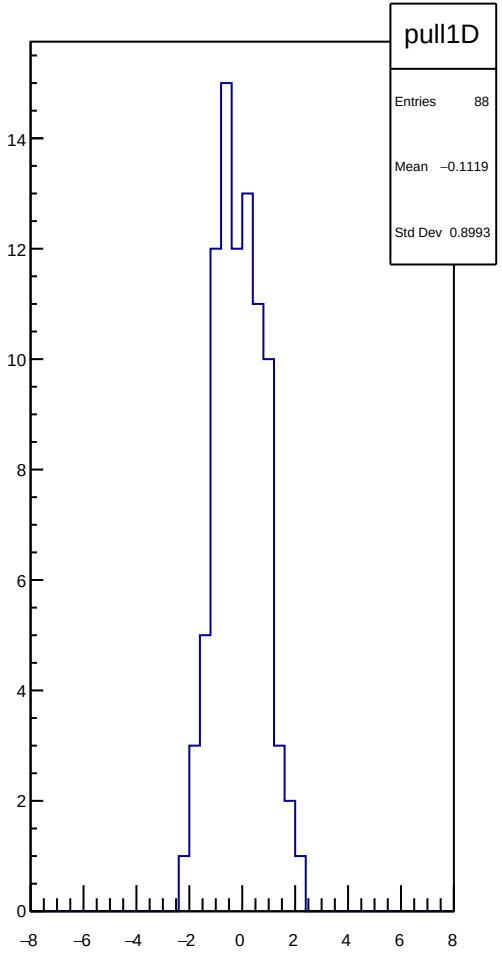

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.53 / 87
p0 −0.009588 ± 0.2009
pull
Entries 88
Mean −40.05
Std Dev 0
pull1D
Entries 88
Mean −0.03388
Std Dev 0.9258

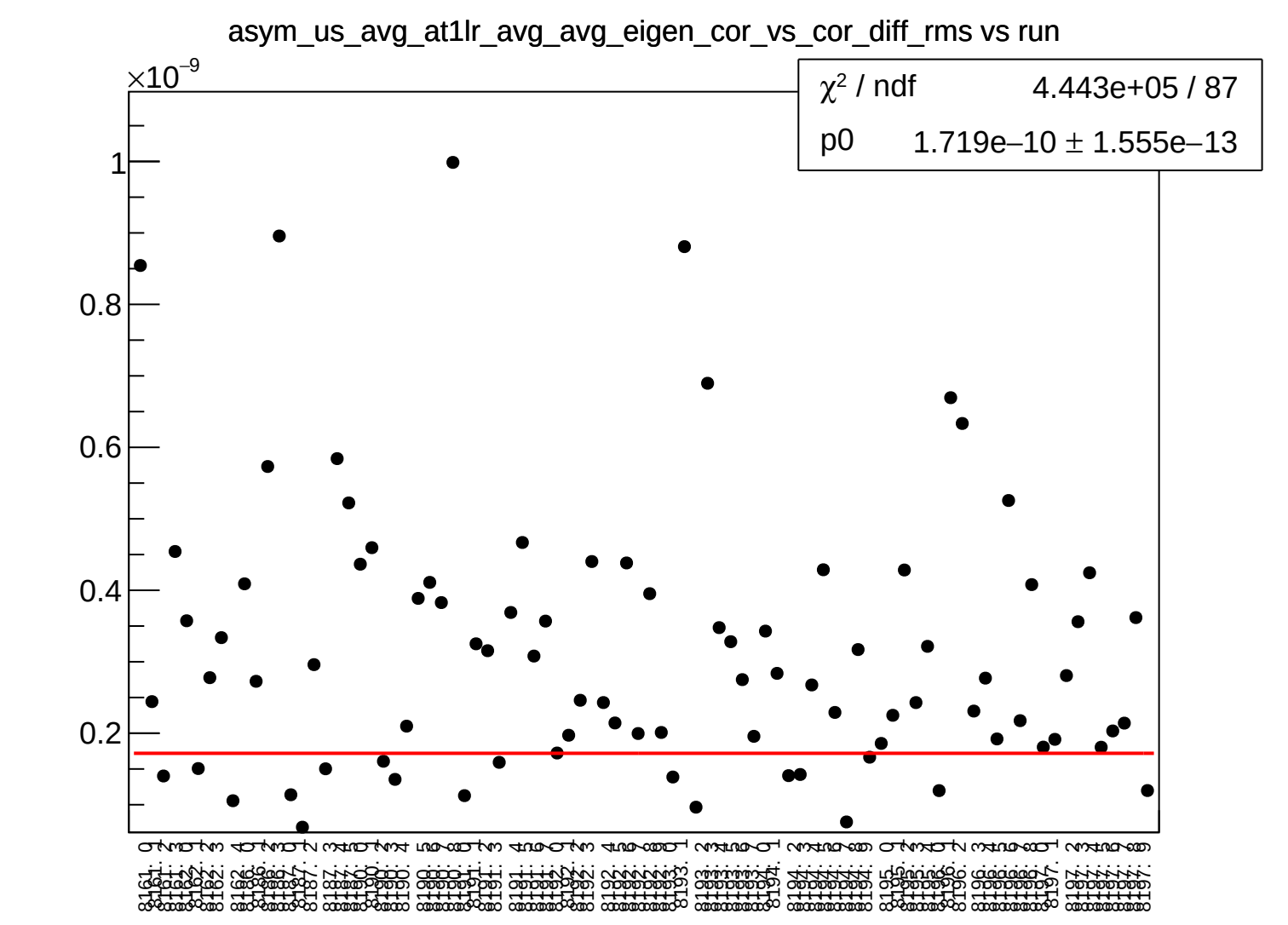

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.029e+05 / 87
p0 146.5 ± 0.1421
800
700
600
500
400
300
200
100

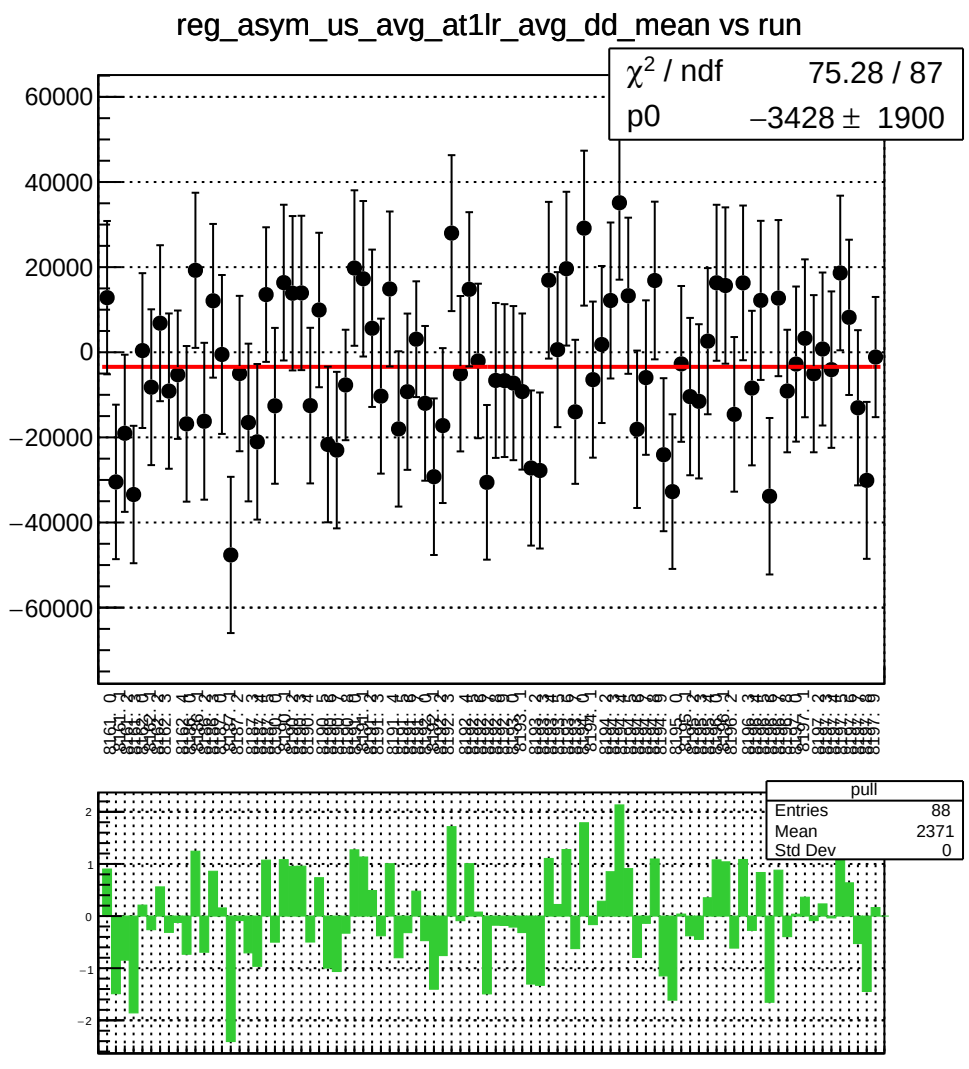

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.53 / 87
p0 −0.009588 ± 0.2009
pull
Entries 88
Mean −40.05
Std Dev 0
pull1D
Entries 88
Mean −0.03388
Std Dev 0.9258

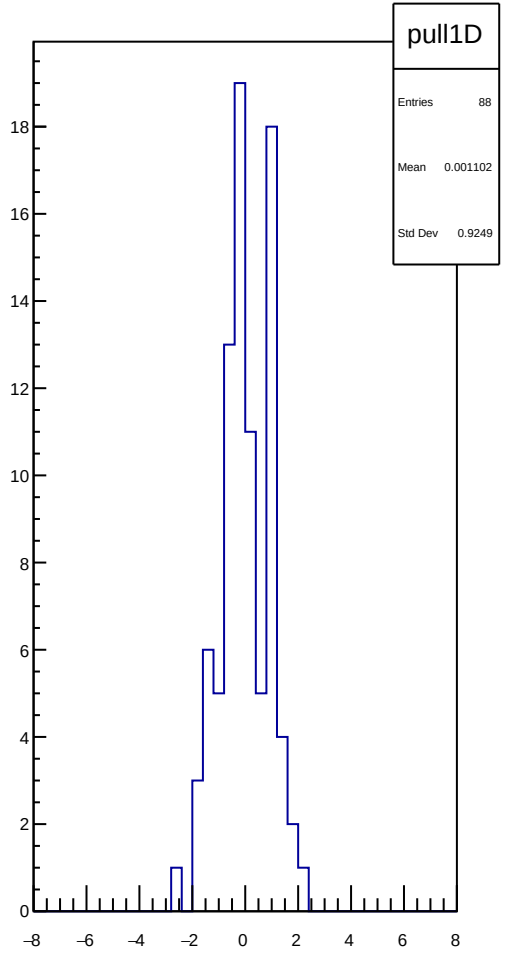

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.029e+05 / 87
p0 146.5 ± 0.1421
800
700
600
500
400
300
200
100

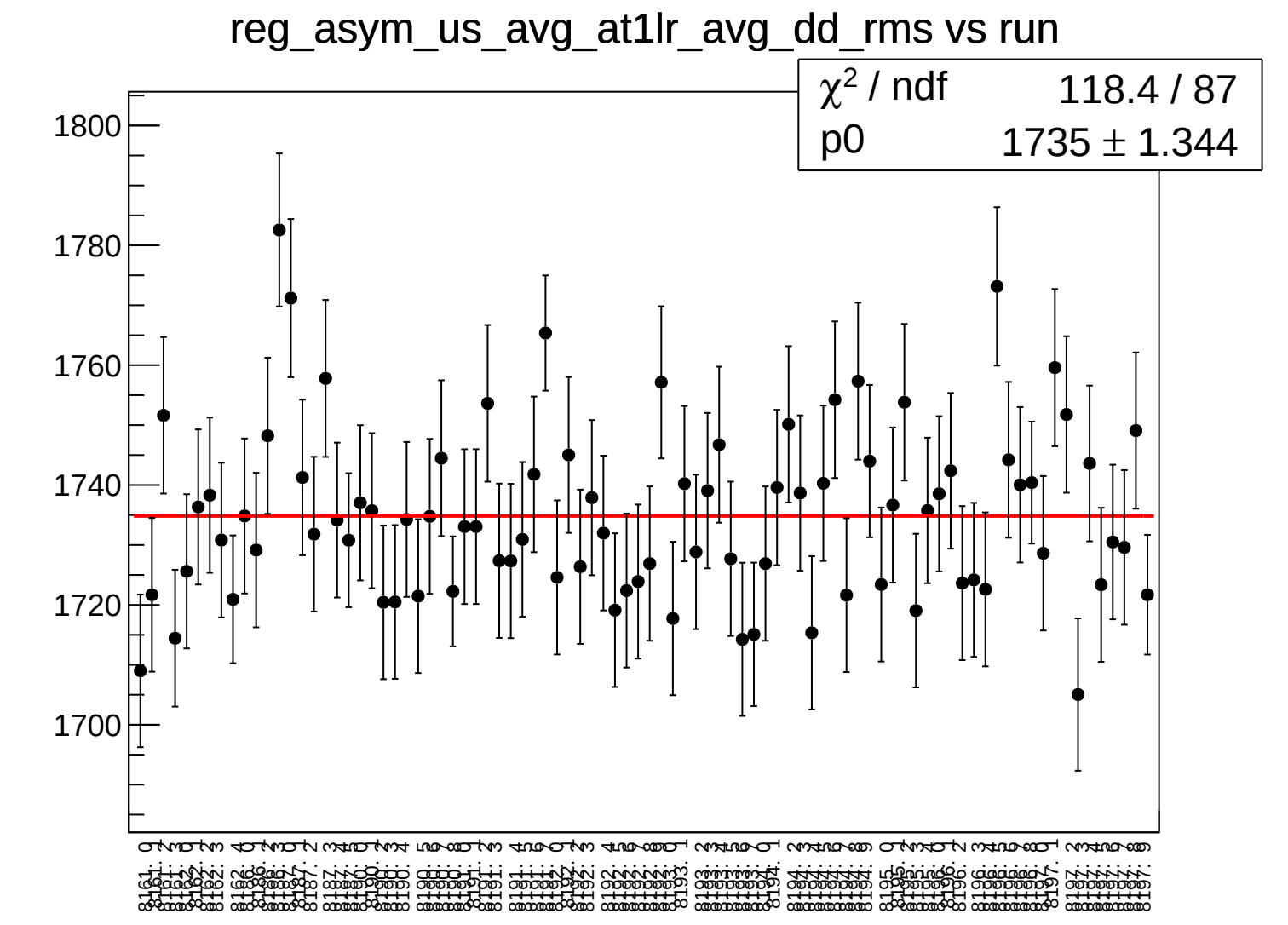

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.27 / 87
p0 −4.271e−14 ± 2.199e−13
pull
Entries 88
Mean 25.73
Std Dev 29.13

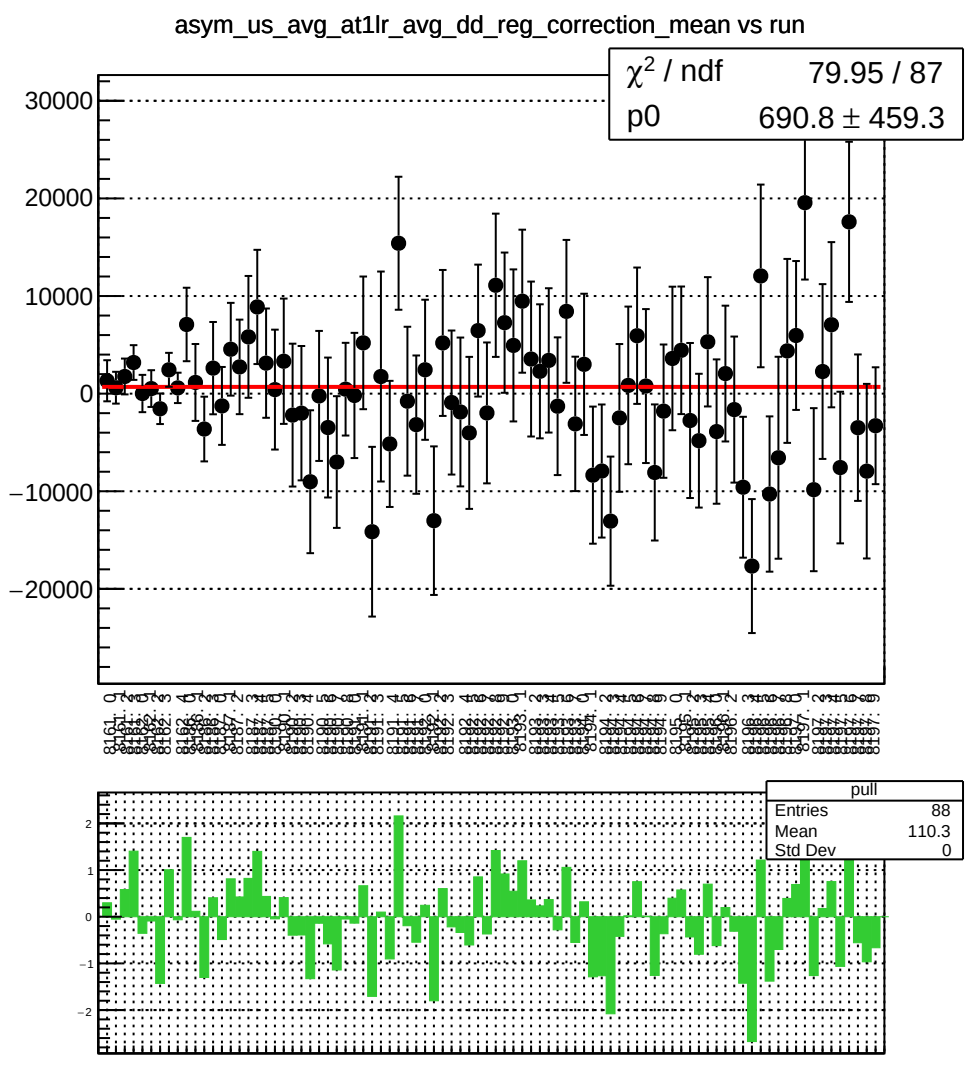

pull1D
Entries 88
Mean −0.1119
Std Dev 0.8993

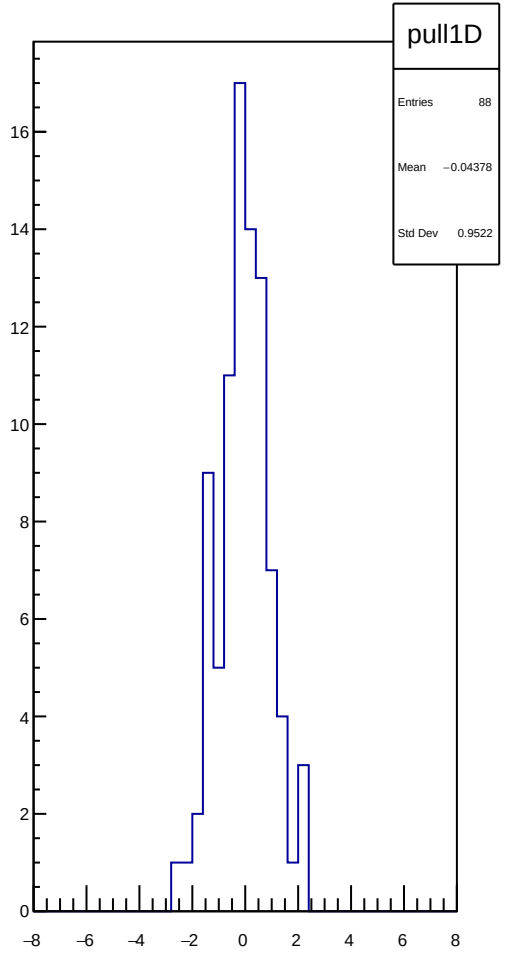

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.443e+05 / 87
p0 1.719e−10 ± 1.555e−13
1
0.8
0.6
0.4
0.2

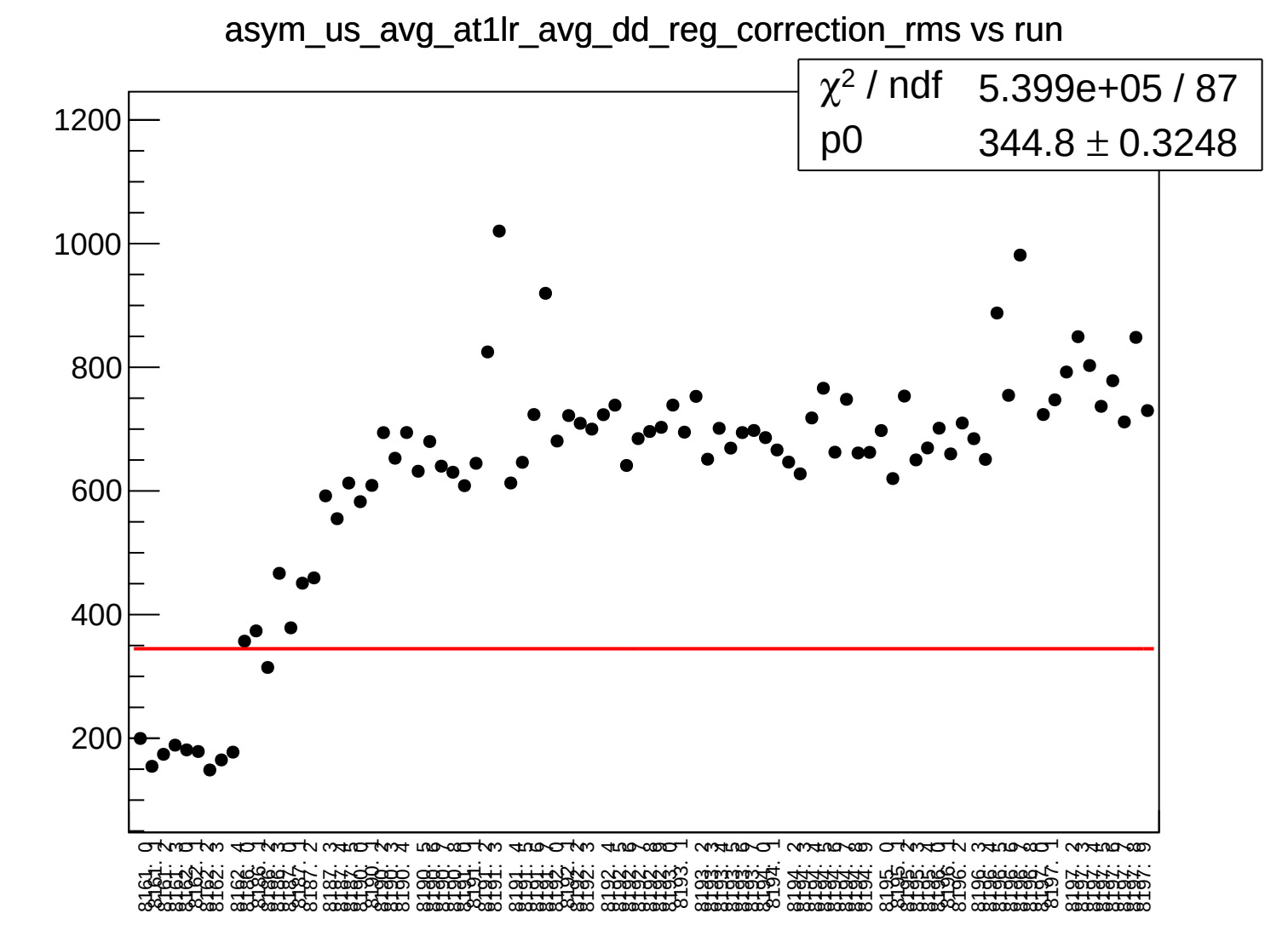

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.28 / 87
p0 −3428 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 2371
Std Dev 0
2
1
0
−1
−2

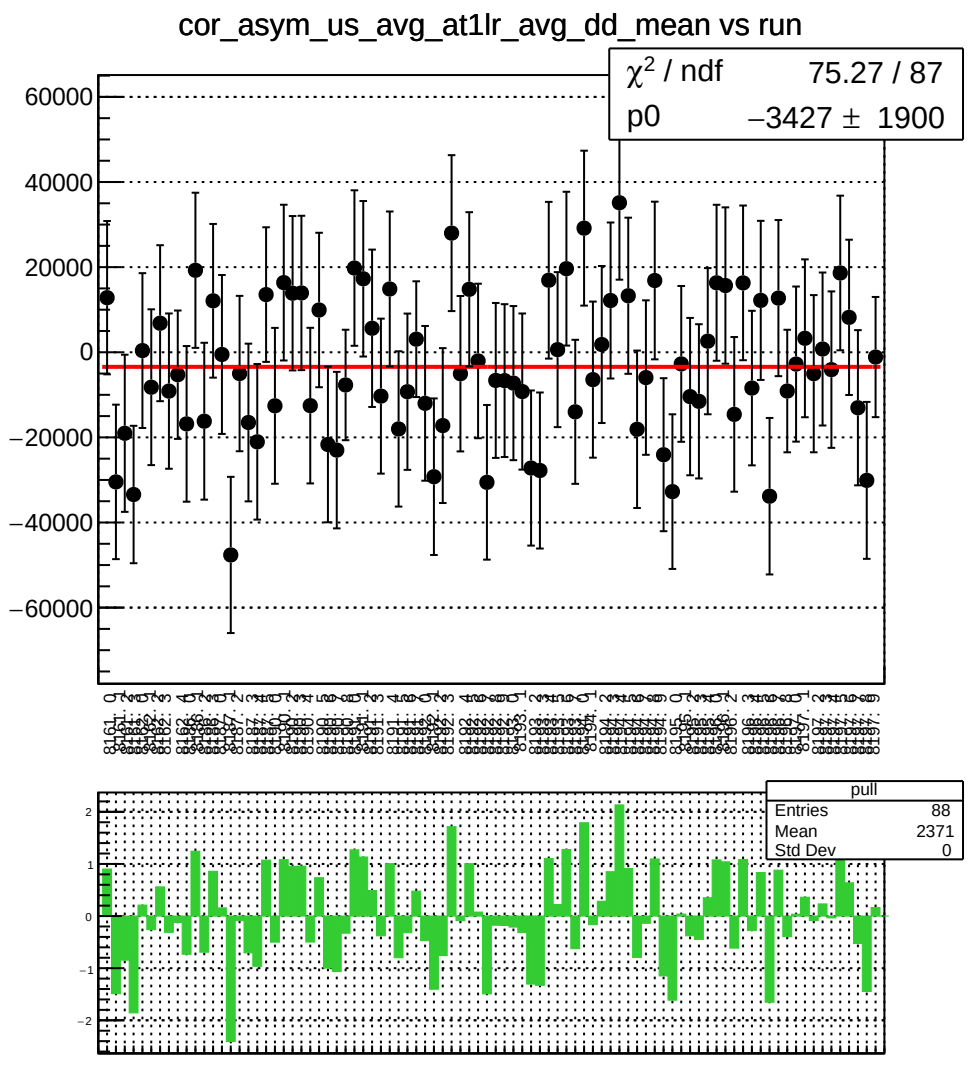

pull1D
Entries 88
Mean 0.001102
Std Dev 0.9249
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

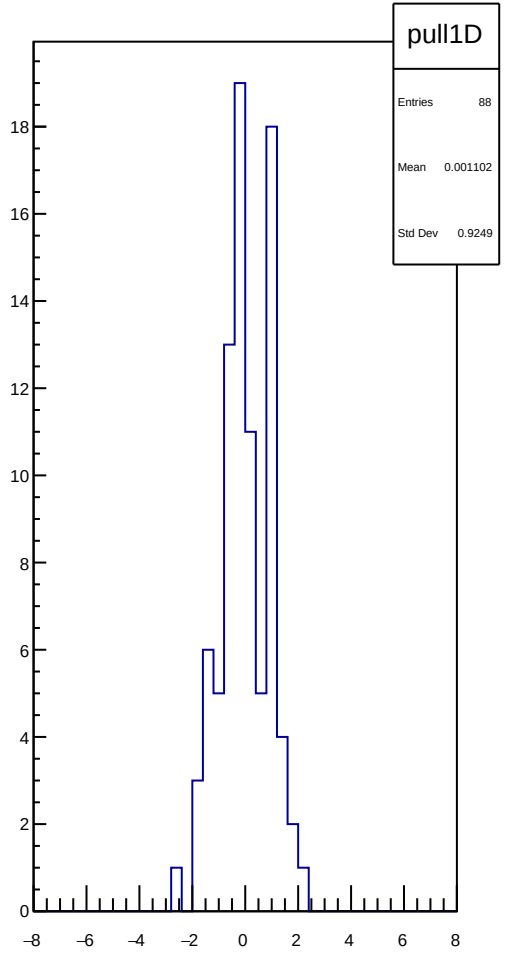

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 118.4 / 87
p0 1735 ± 1.344
1800
1780
1760
1740
1720
1700

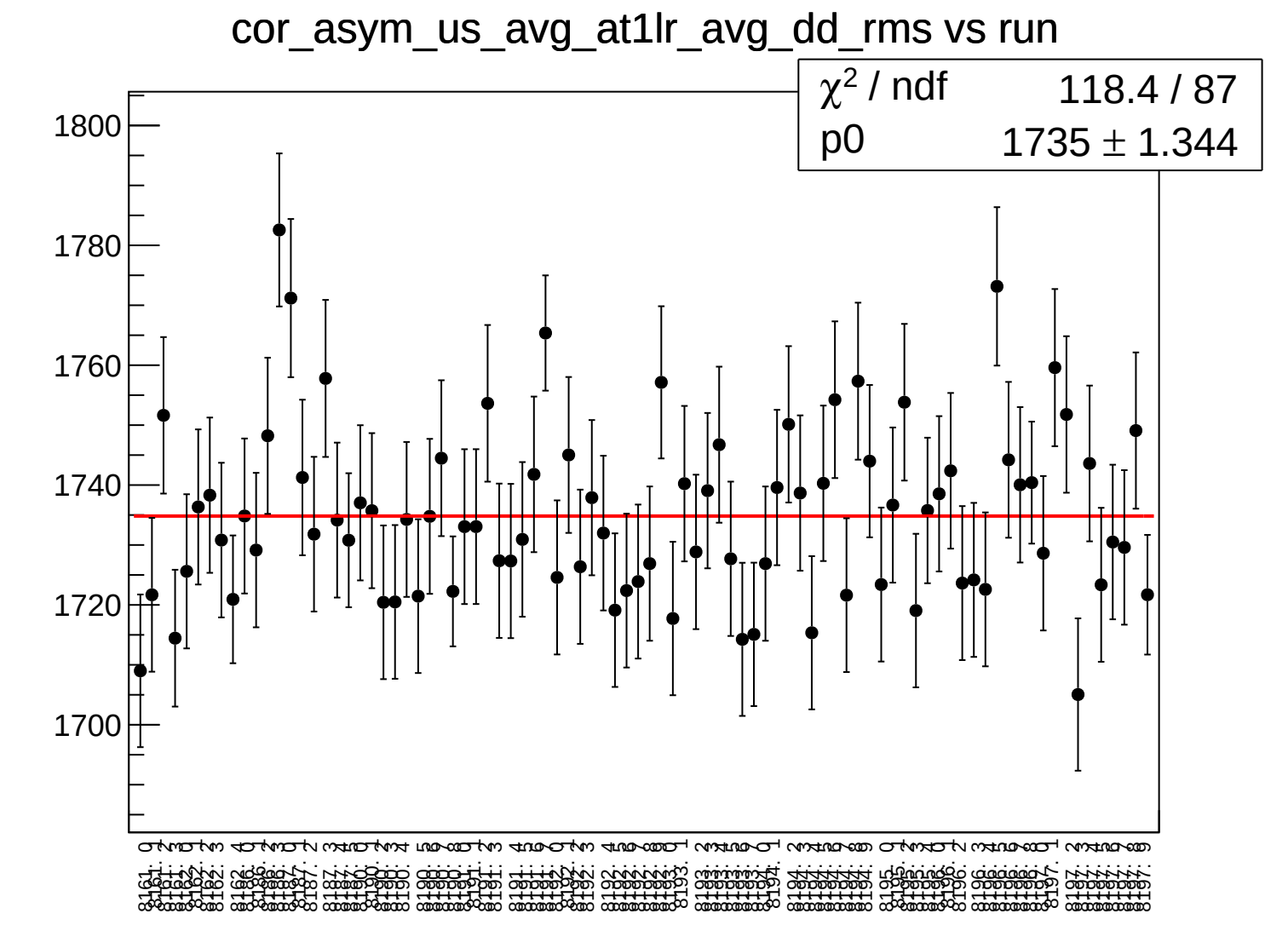

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 79.95 / 87
p0 690.8 ± 459.3
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 110.3
Std Dev 0
2
1
0
−1
−2

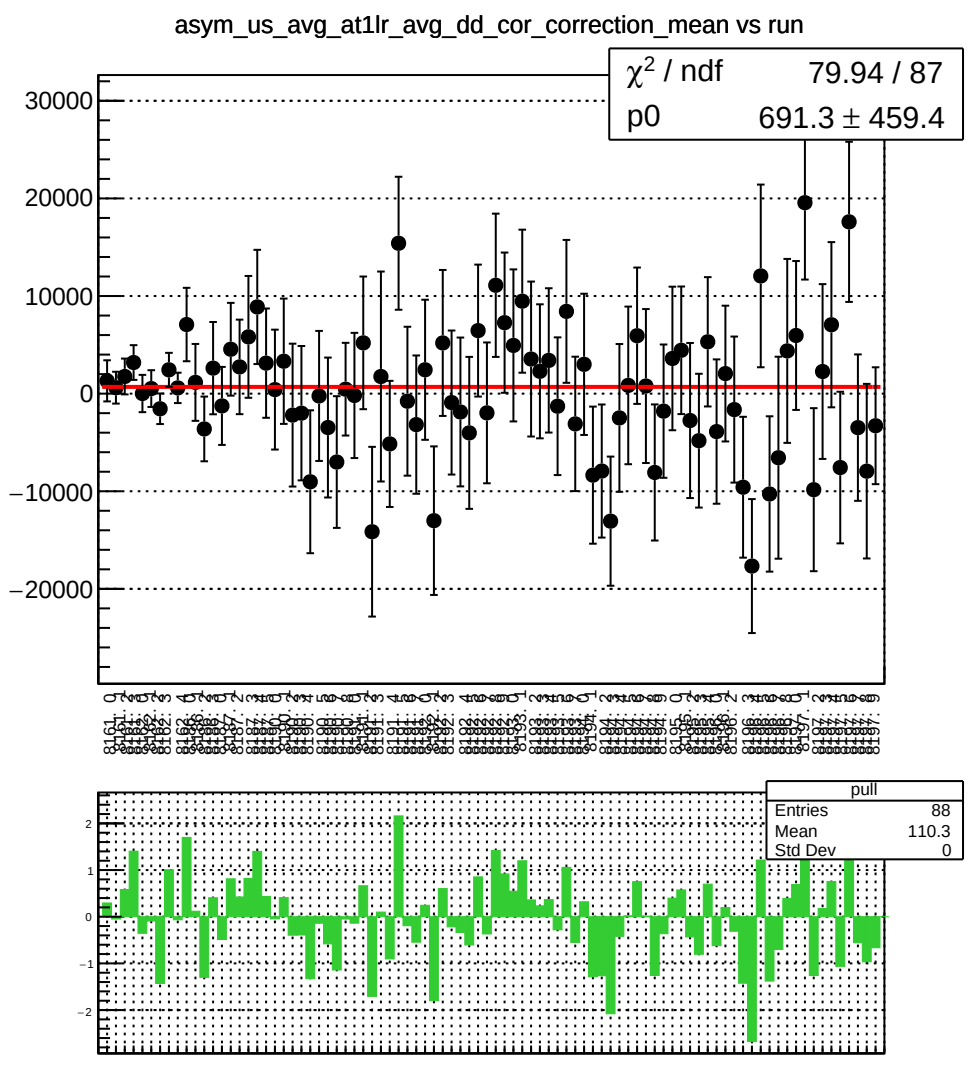

pull1D
Entries 88
Mean −0.04378
Std Dev 0.9522
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

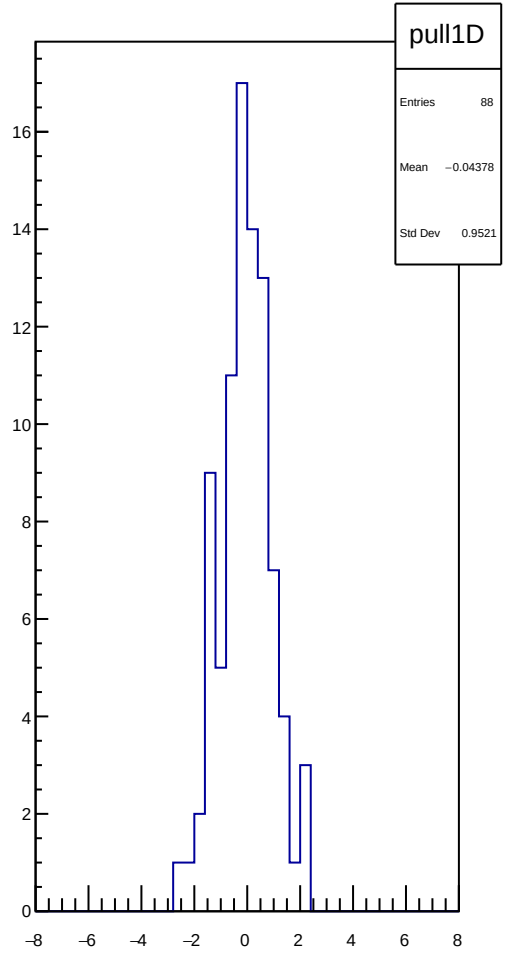

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5.399e+05 / 87
p0 344.8 ± 0.3248
1200
1000
800
600
400
200

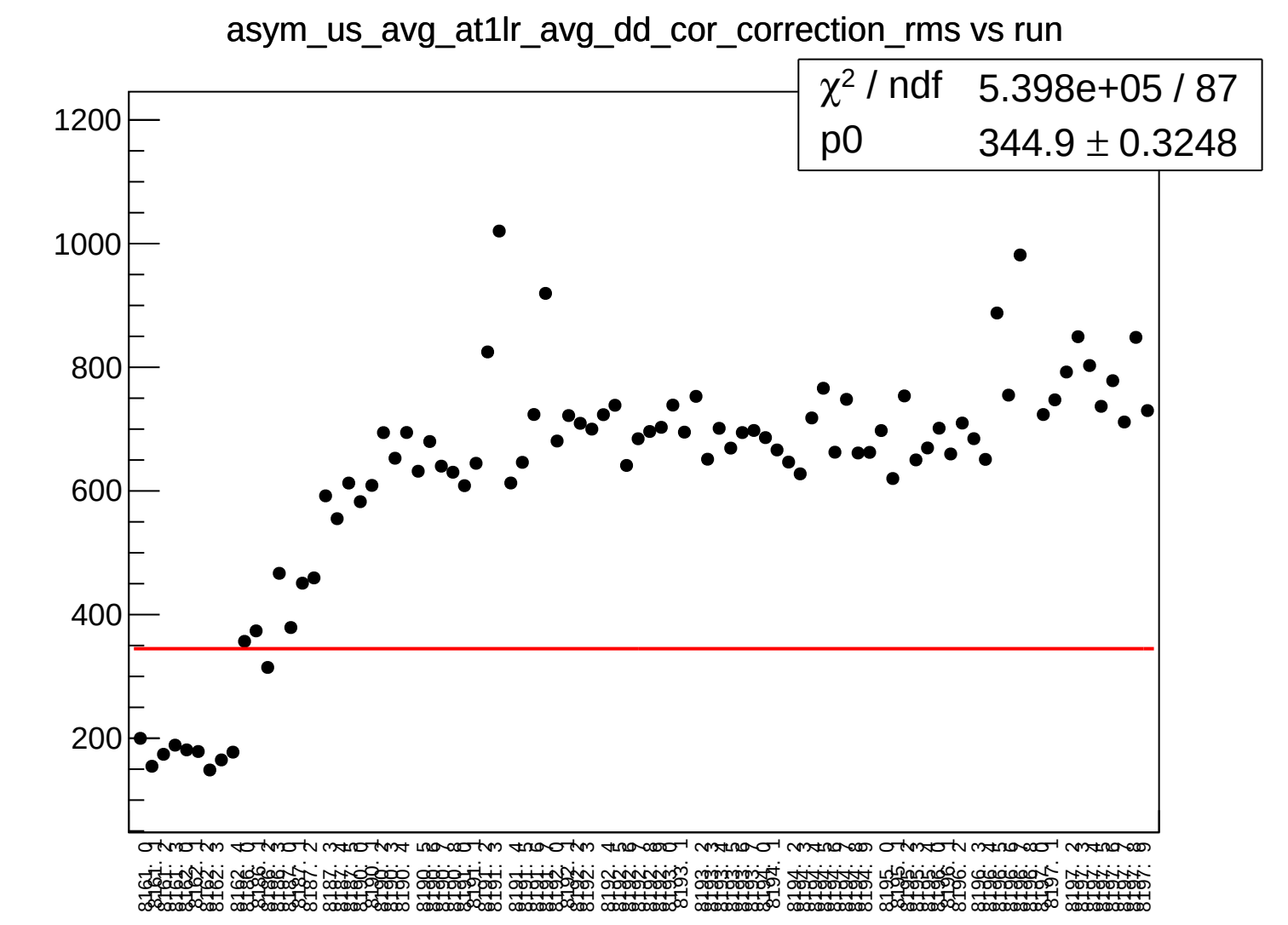

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.27 / 87
p0 −3427 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 2371
Std Dev 0
2
1
0
−1
−2

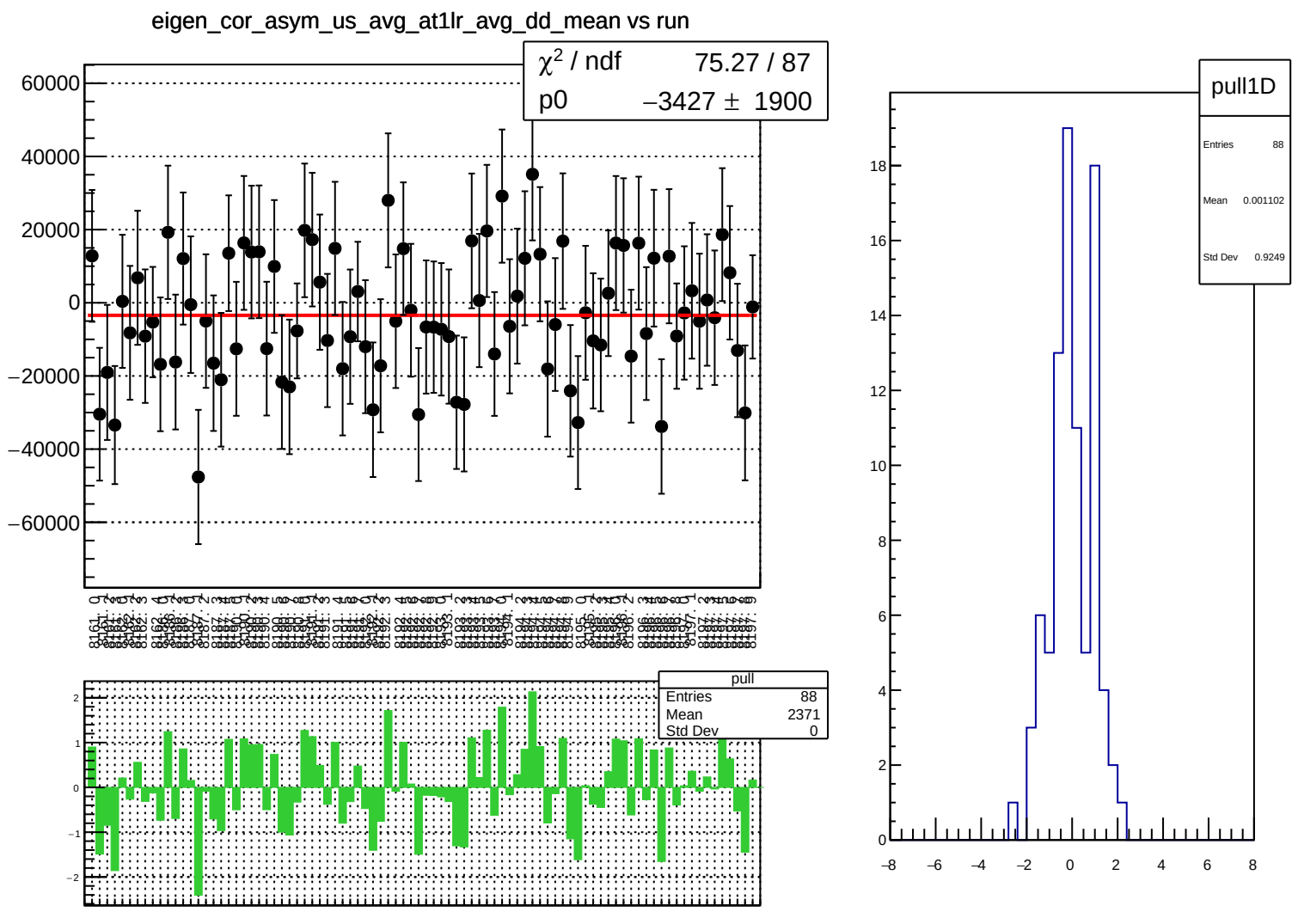

pull1D
Entries 88
Mean 0.001102
Std Dev 0.9249
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

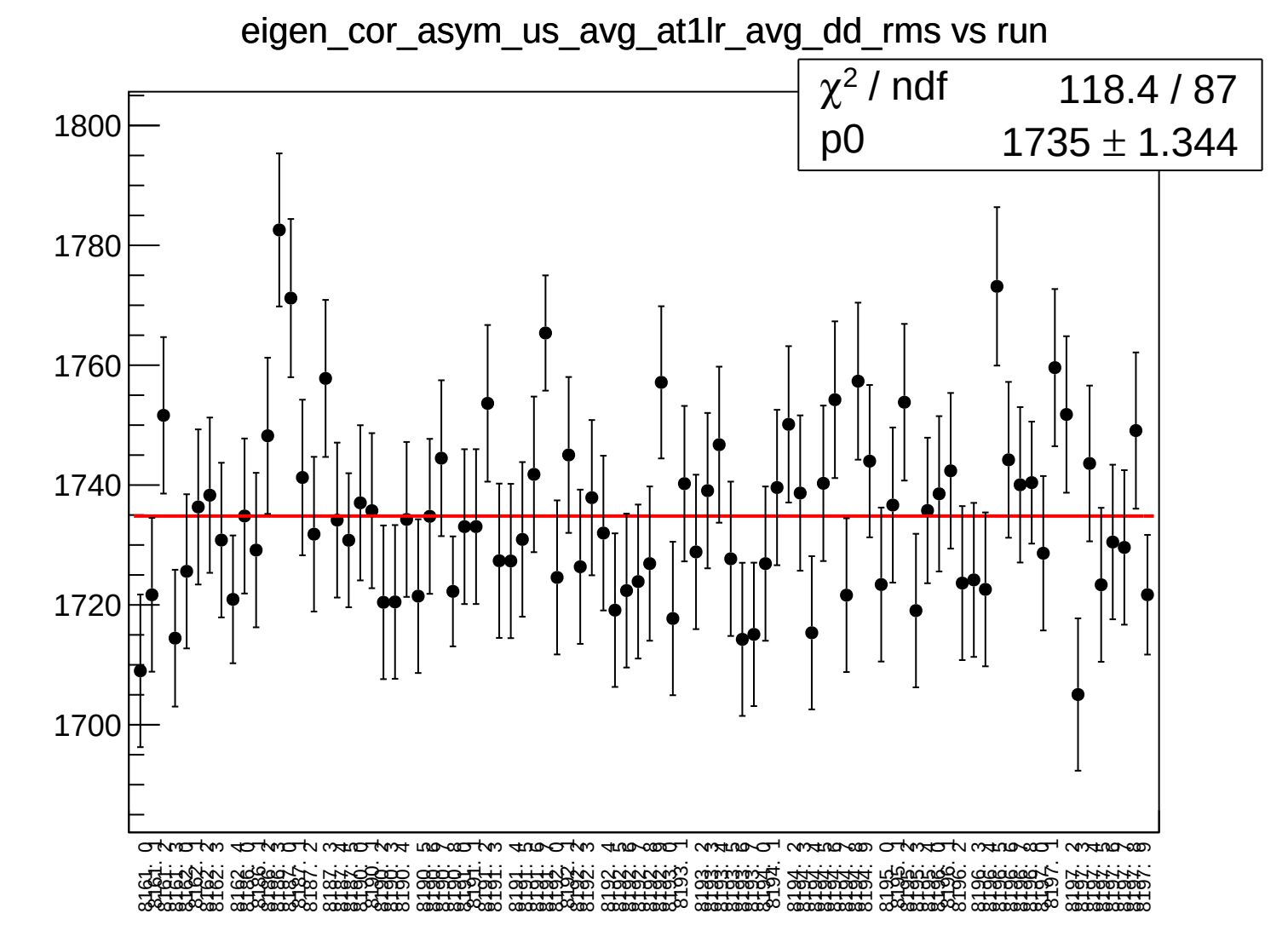

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 118.4 / 87
p0 1735 ± 1.344
1800
1780
1760
1740
1720
1700

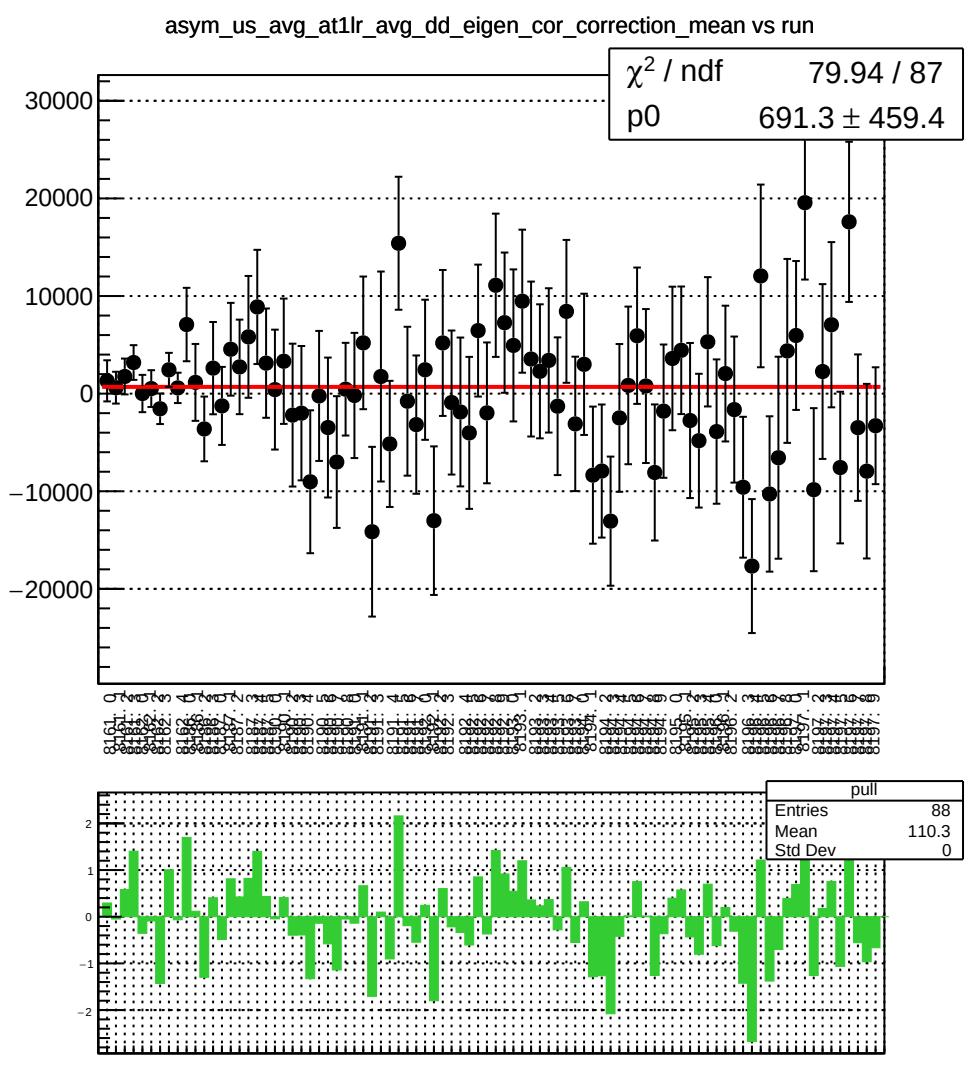

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 79.94 / 87
p0 691.3 ± 459.4
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 110.3
Std Dev 0
2
1
0
−1
−2

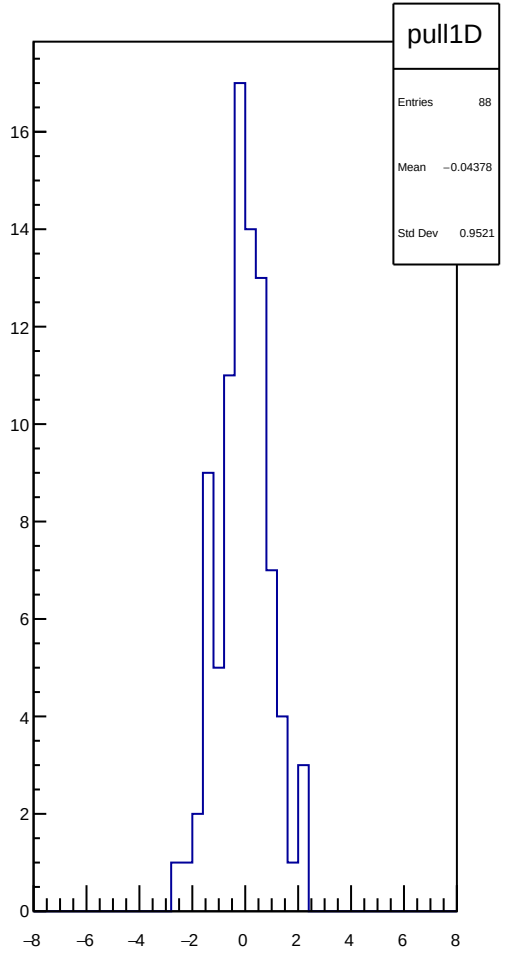

pull1D
Entries 88
Mean −0.04378
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

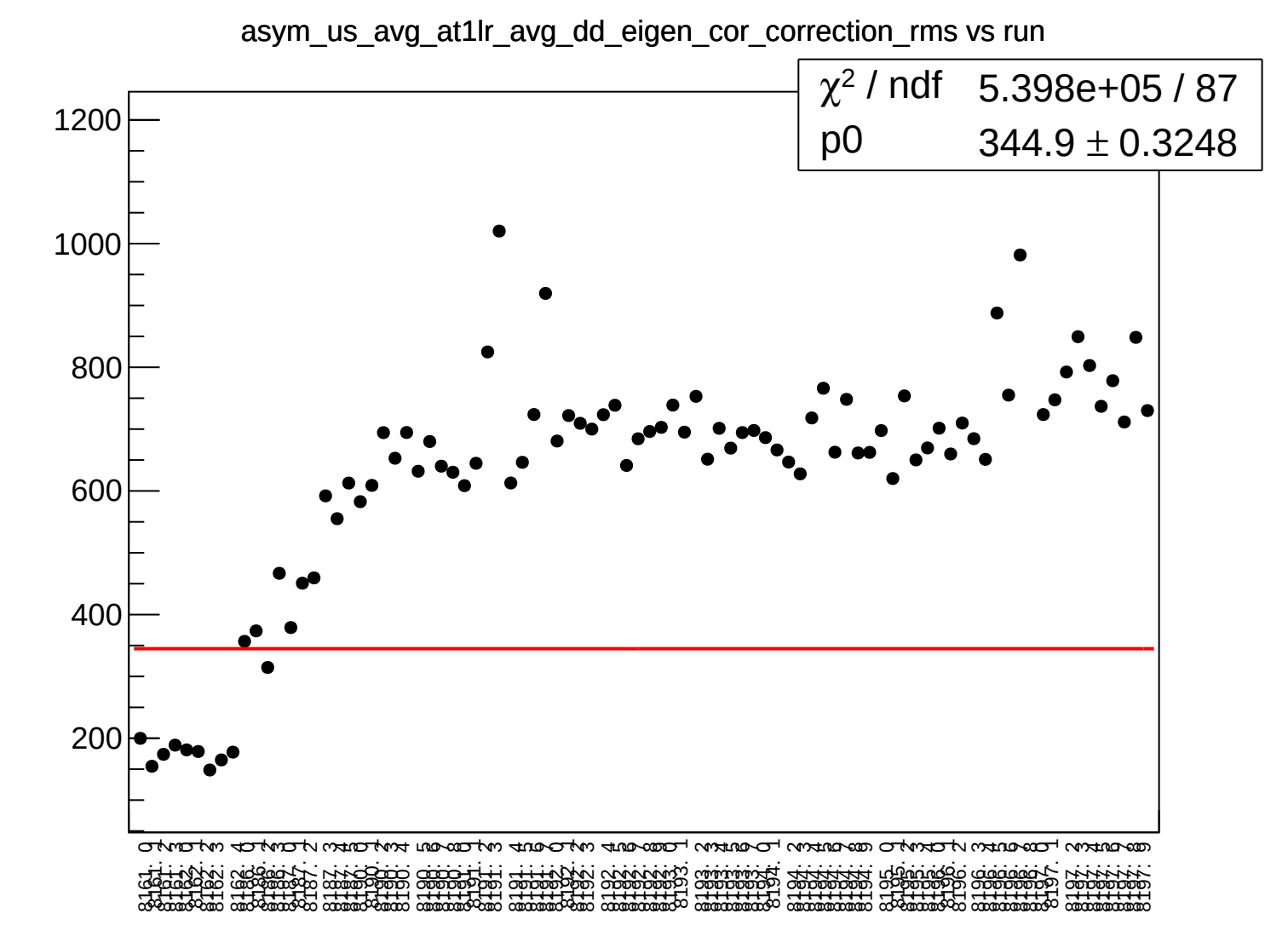

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5.398e+05 / 87
p0 344.9 ± 0.3248
1200
1000
800
600
400
200

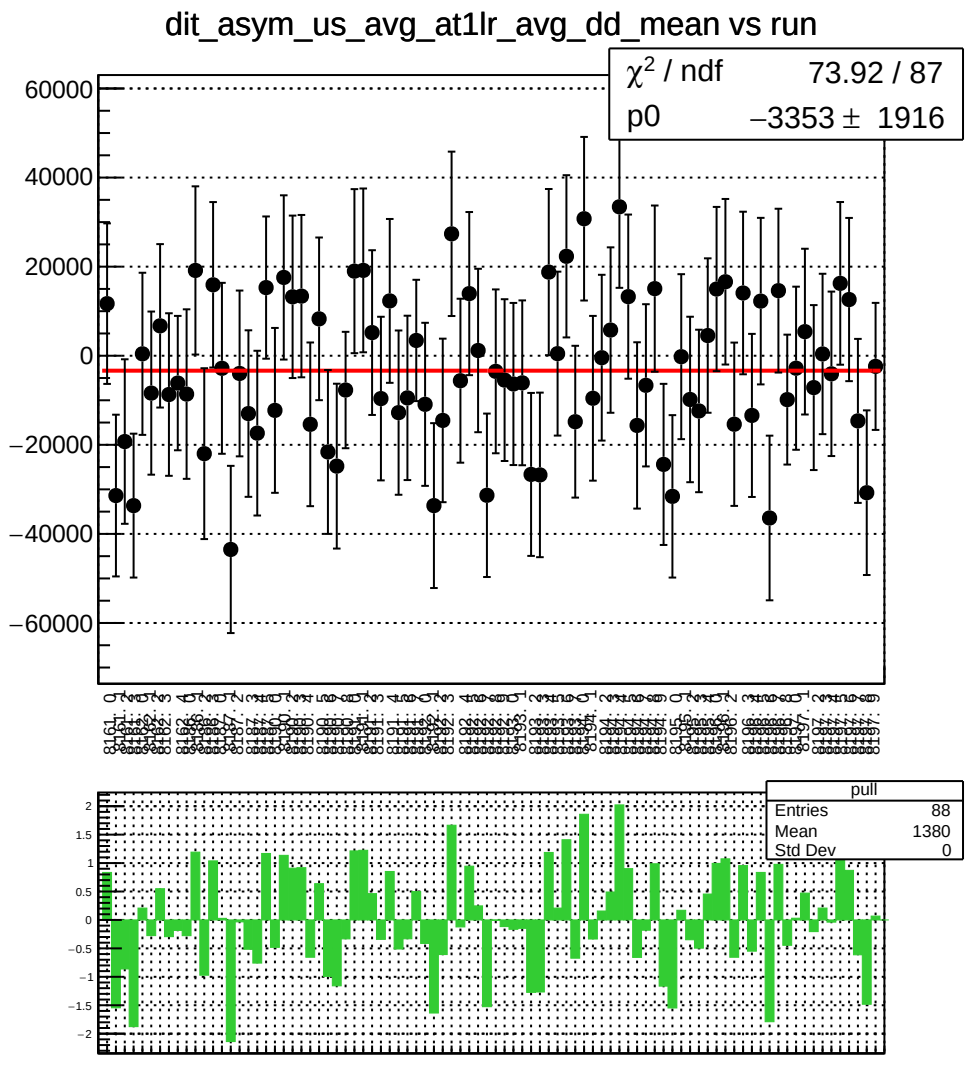

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 75.27 / 87
p0 −3427 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 2371
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001102
Std Dev 0.9249
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

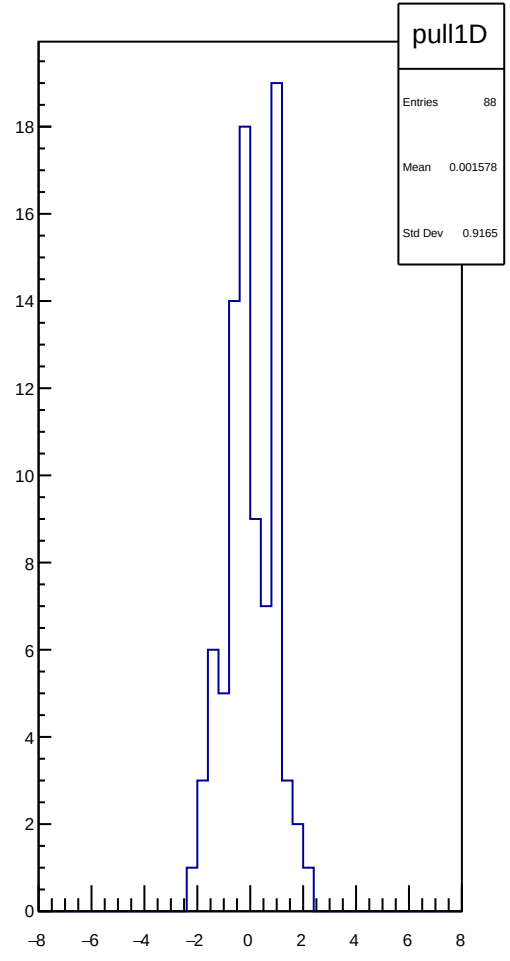

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 118.4 / 87
p0 1735 ± 1.344
1800
1780
1760
1740
1720
1700

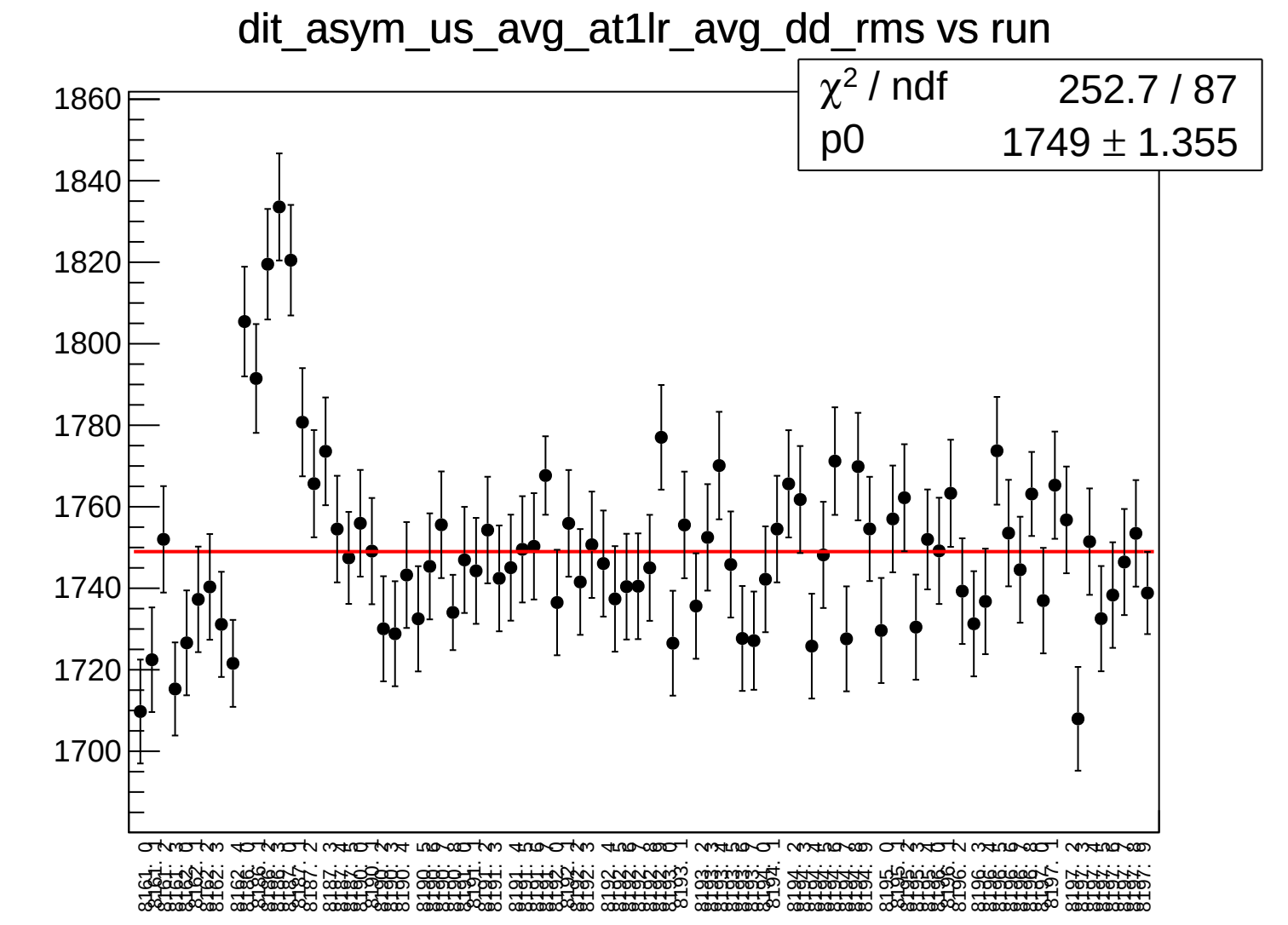

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.94 / 87
p0 691.3 ± 459.4
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 110.3
Std Dev 0
2
1
0
−1
−2

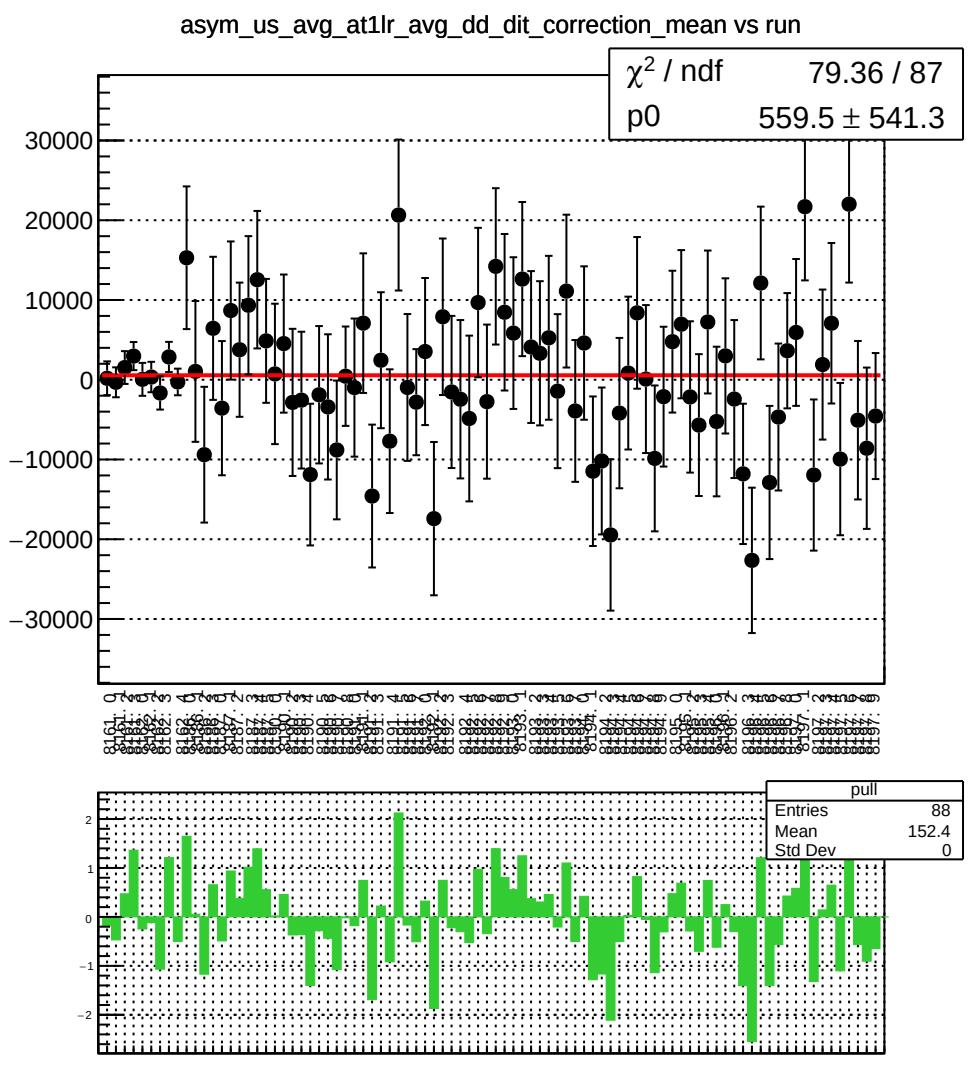

pull1D
Entries 88
Mean −0.04378
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

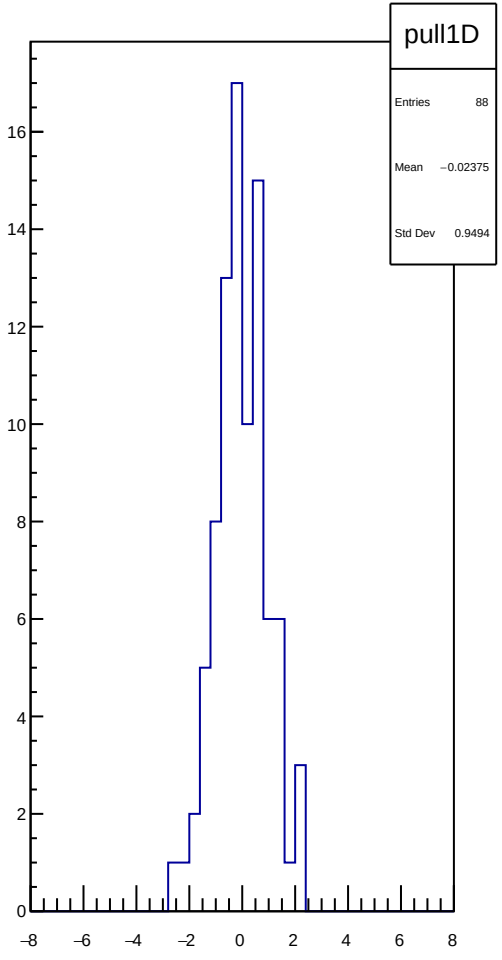

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.398e+05 / 87
p0 344.9 ± 0.3248
1200
1000
800
600
400
200

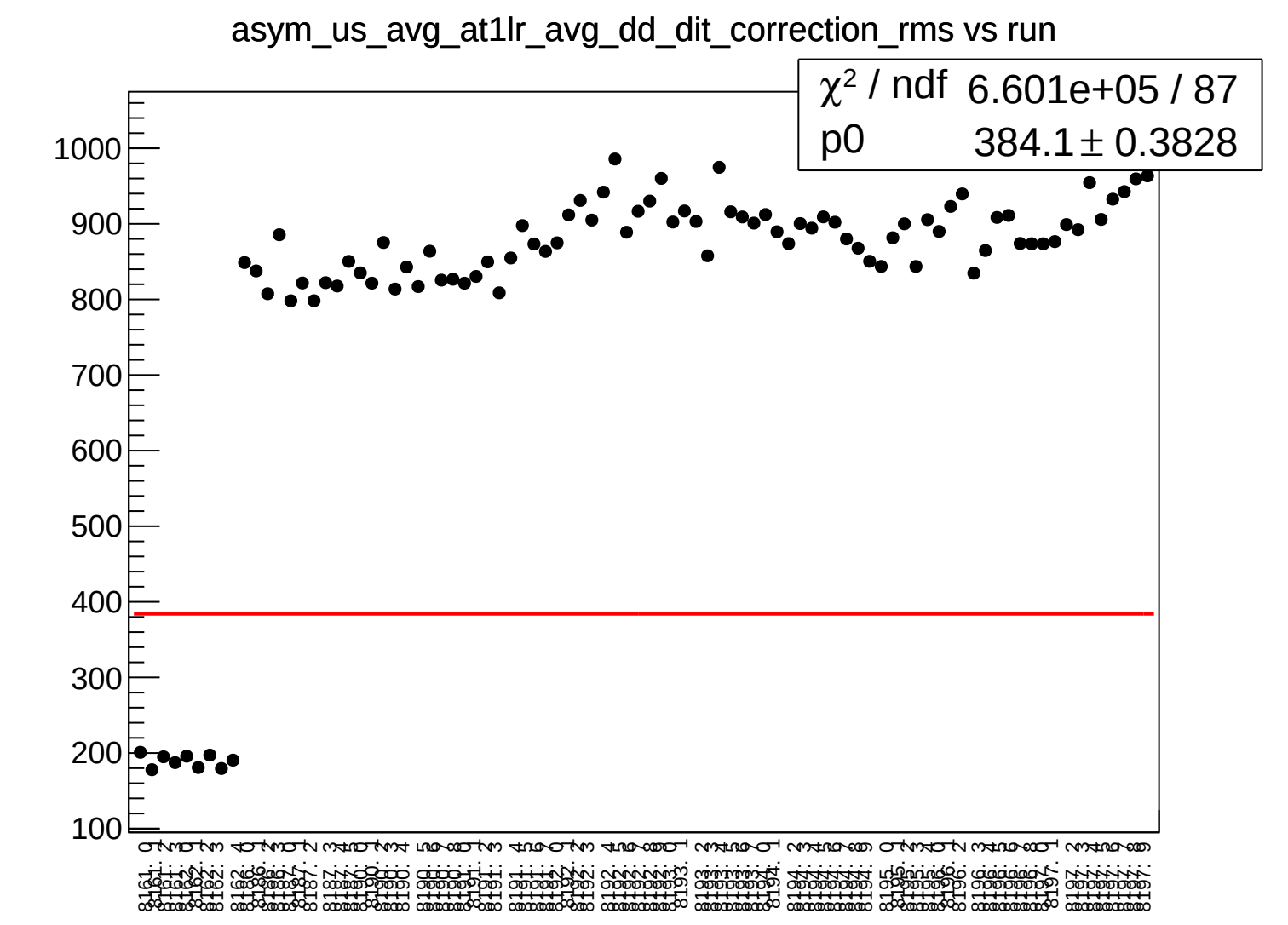

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 73.92 / 87
p0 −3353 ± 1916
pull
Entries 88
Mean 1380
Std Dev 0

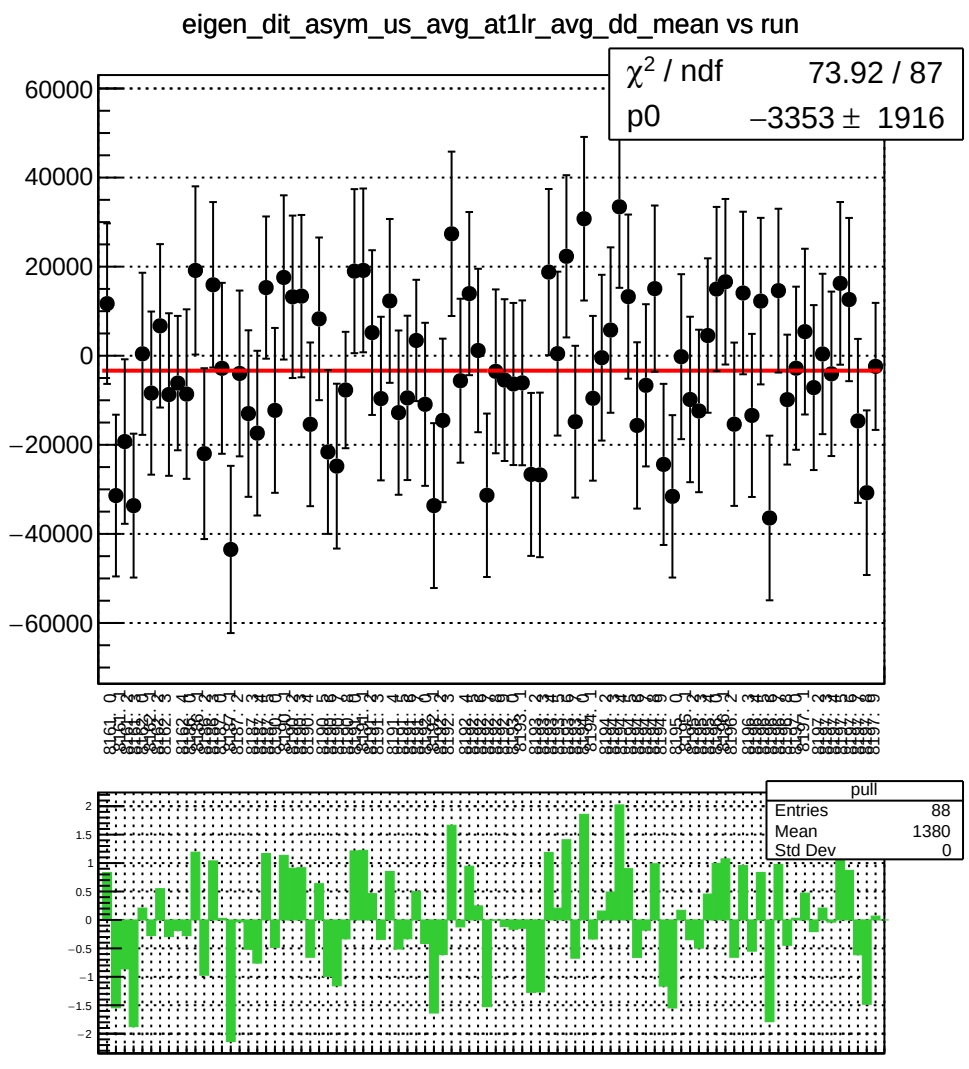

pull1D
Entries 88
Mean 0.001578
Std Dev 0.9165

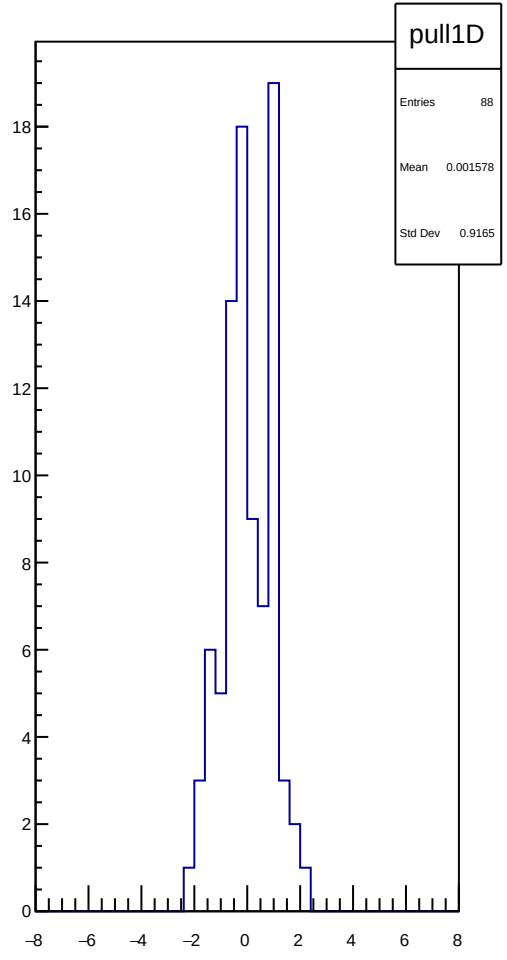

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 252.7 / 87
p0 1749 ± 1.355
1860
1840
1820
1800
1780
1760
1740
1720
1700

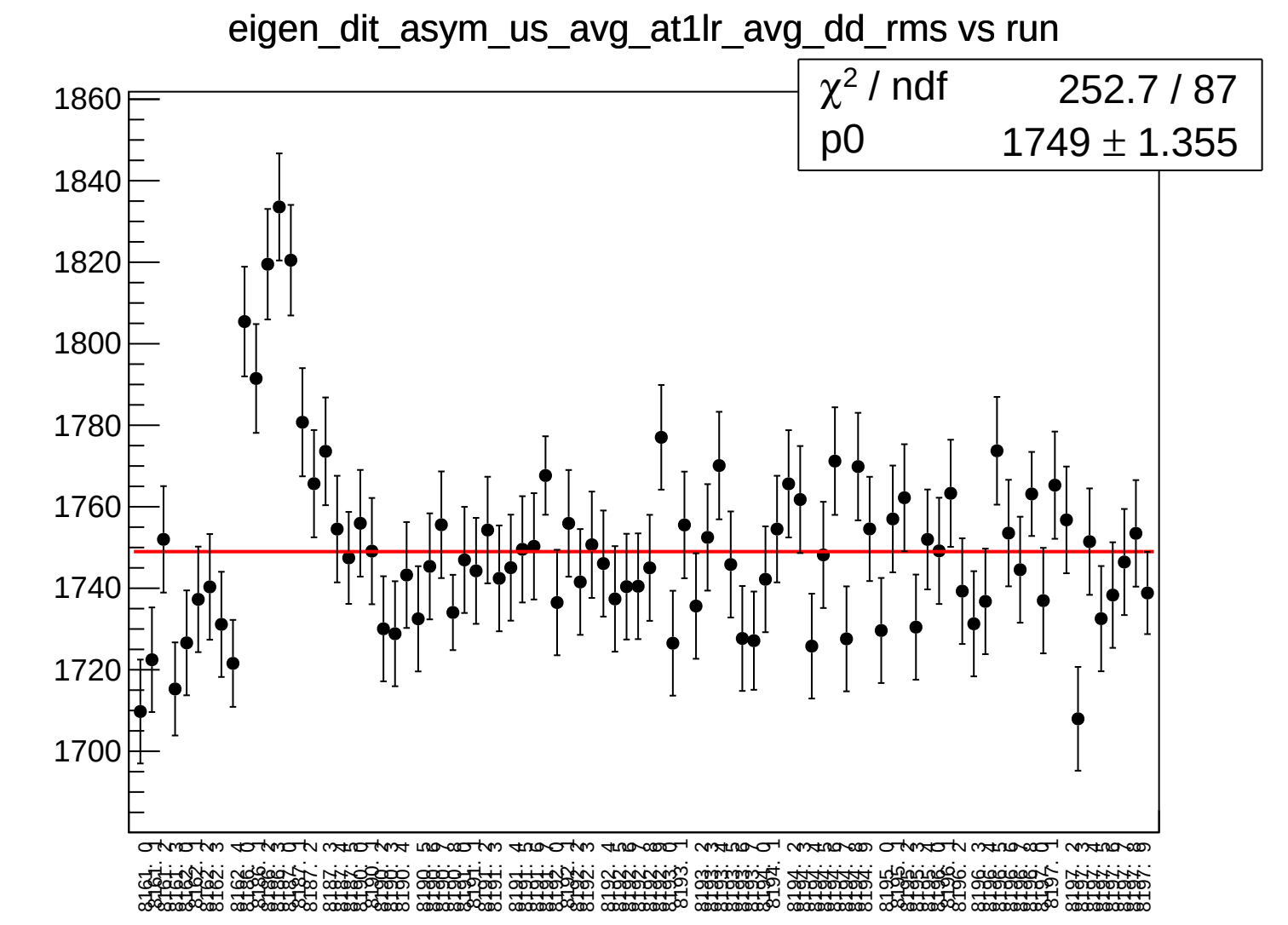

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 79.36 / 87
p0 559.5 ± 541.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 152.4
Std Dev 0
2
1
0
−1
−2

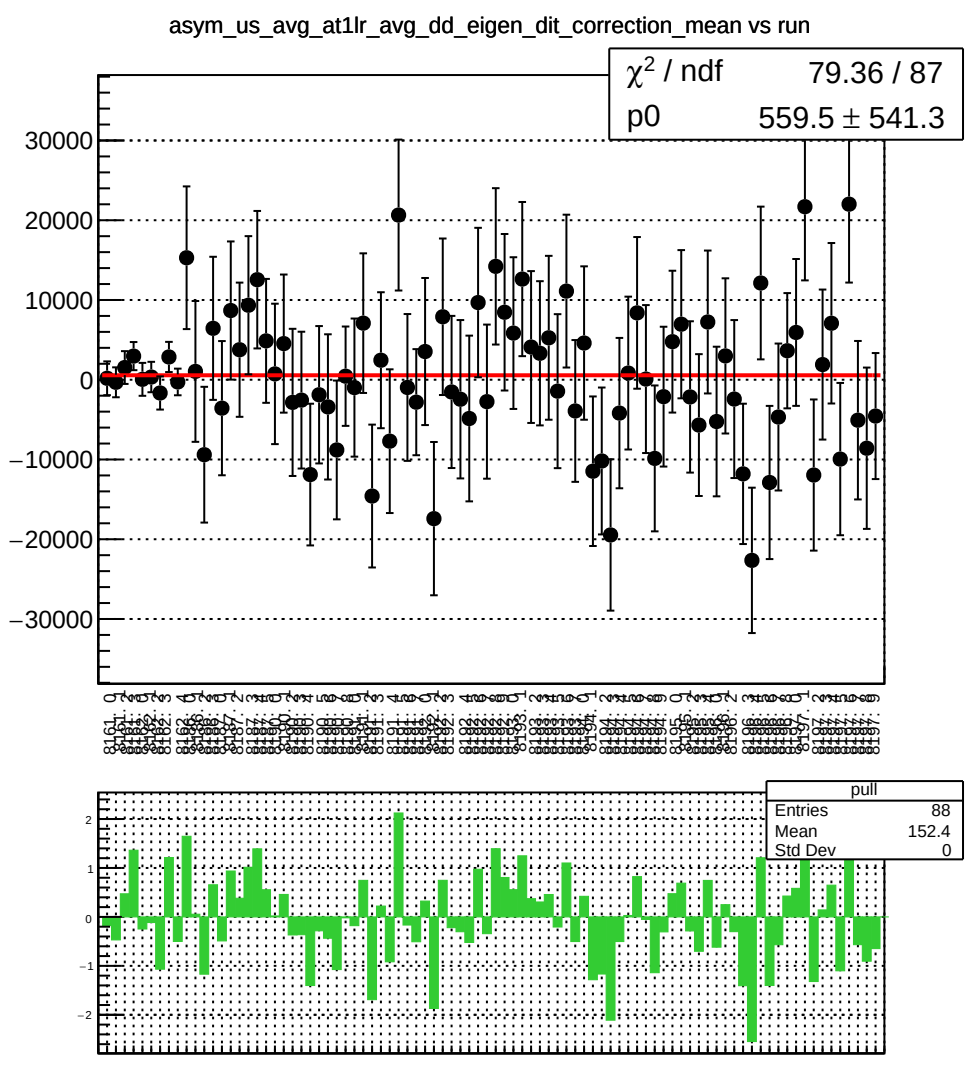

pull1D
Entries 88
Mean −0.02375
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

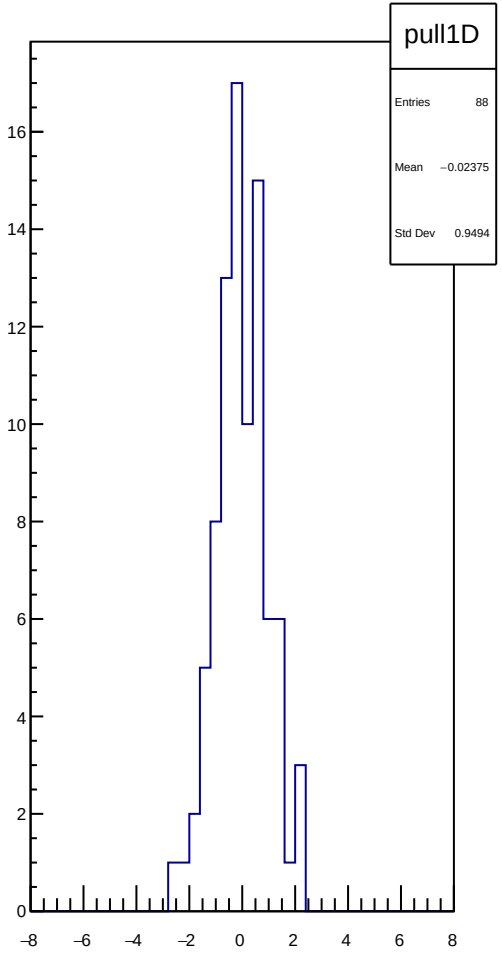

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6.601e+05 / 87
p0 384.1 ± 0.3828
1000
900
800
700
600
500
400
300
200
100

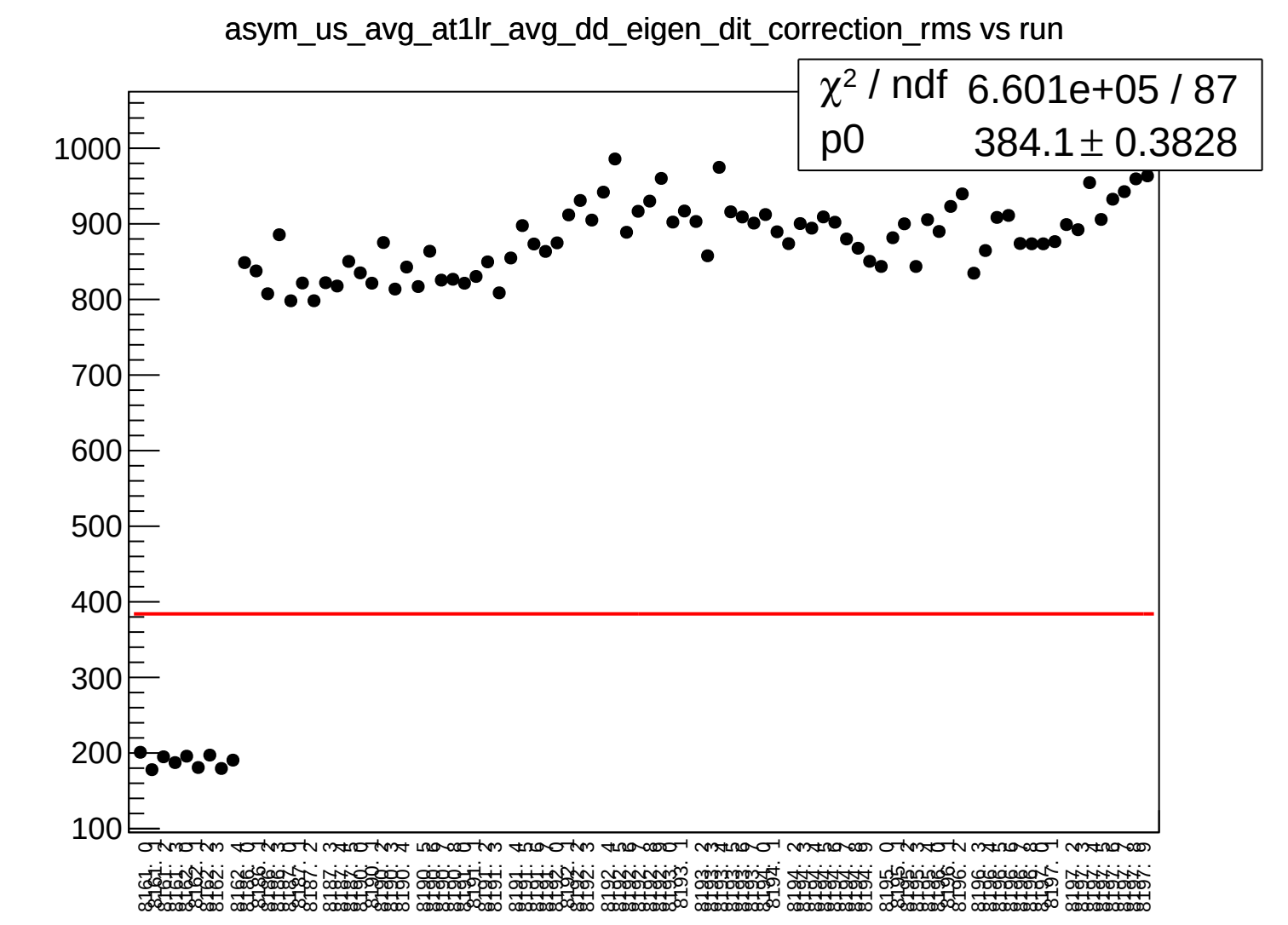

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 73.92 / 87
p0 −3353 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1380
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

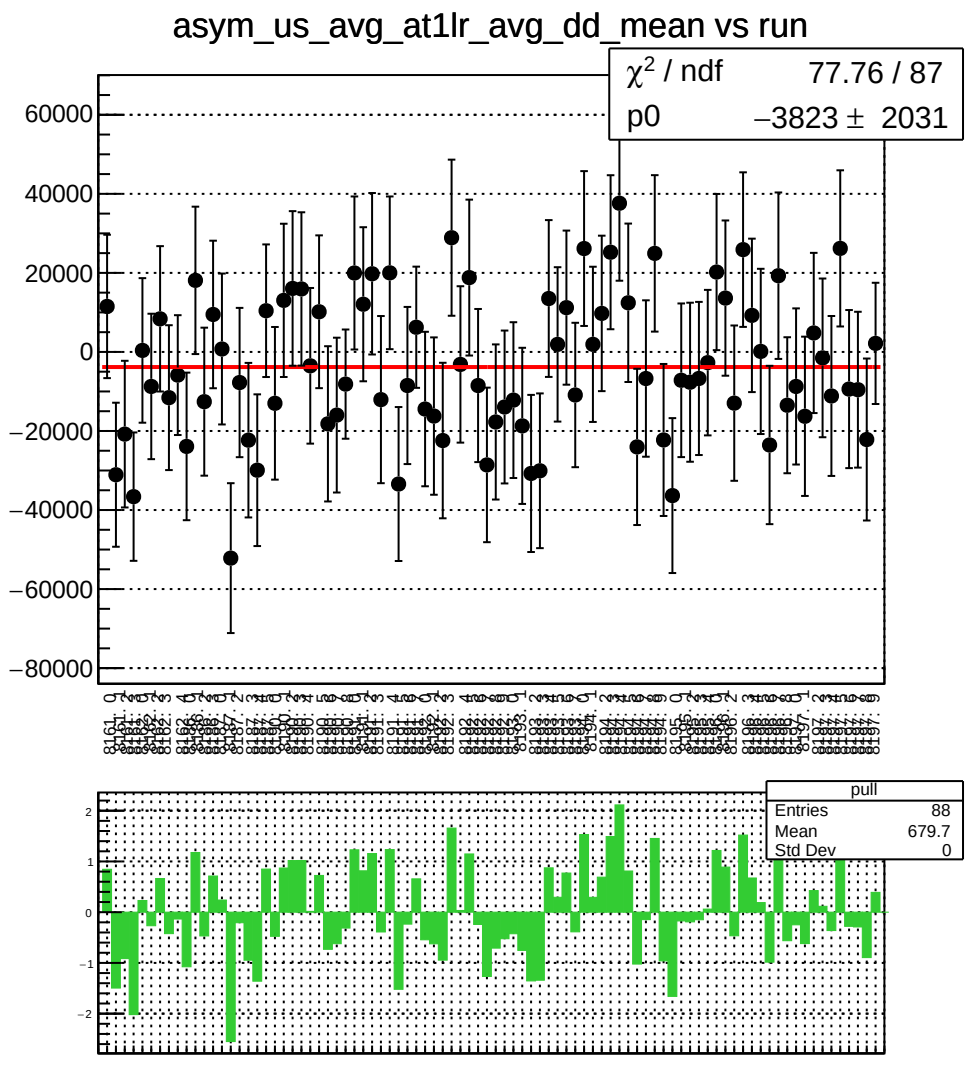

pull1D
Entries 88
Mean 0.001578
Std Dev 0.9165
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

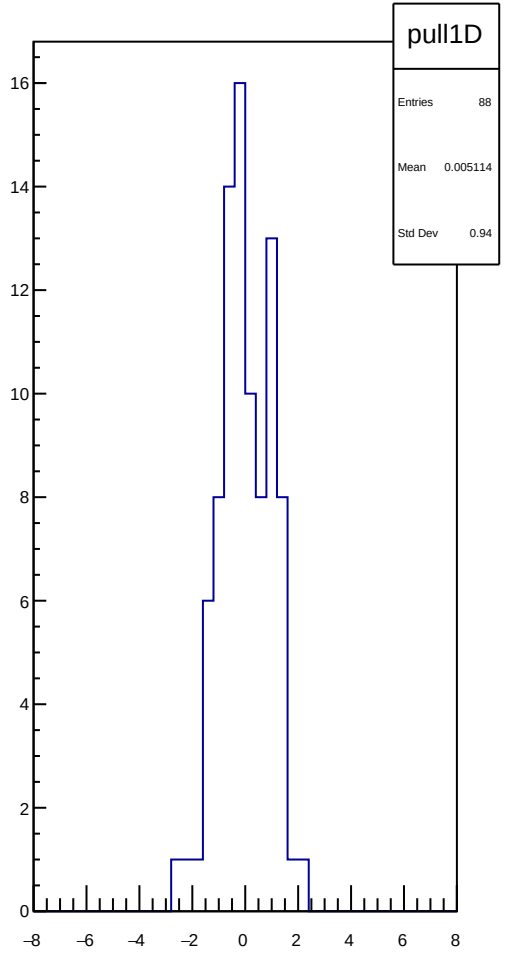

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 252.7 / 87
p0 1749 ± 1.355
1860
1840
1820
1800
1780
1760
1740
1720
1700

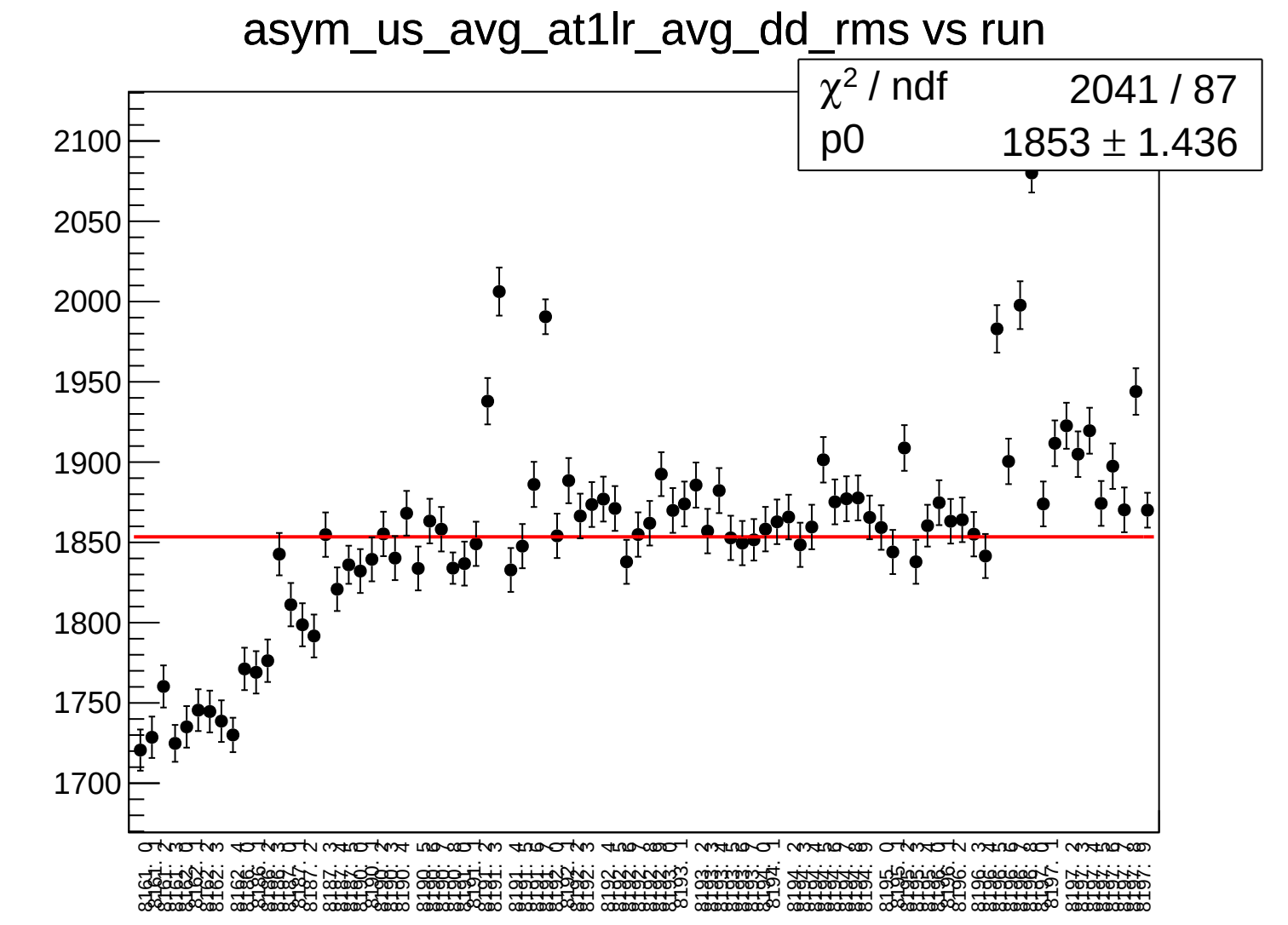

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.36 / 87
p0 559.5 ± 541.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 152.4
Std Dev 0
2
1
0
−1
−2

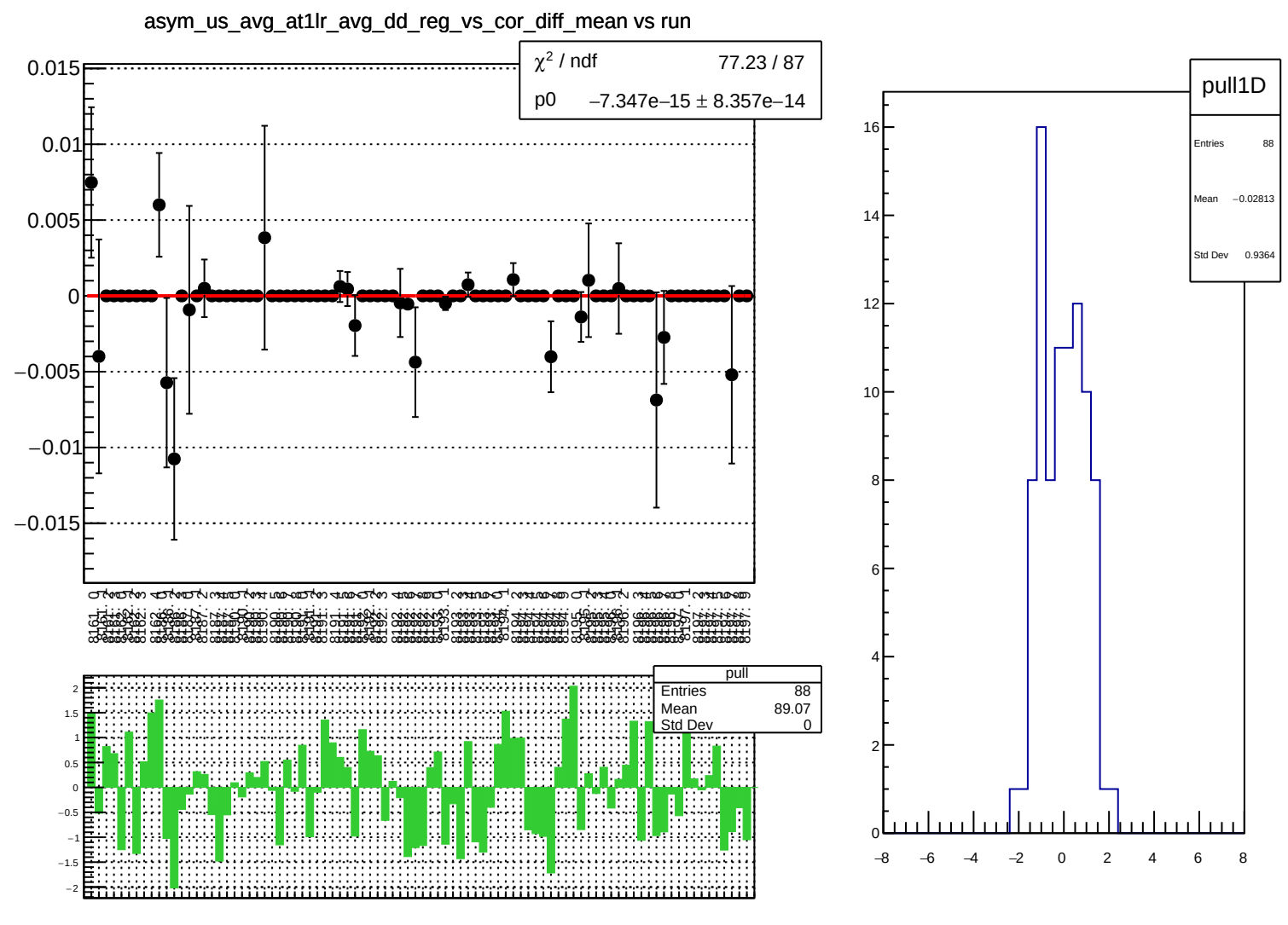

pull1D
Entries 88
Mean −0.02375
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

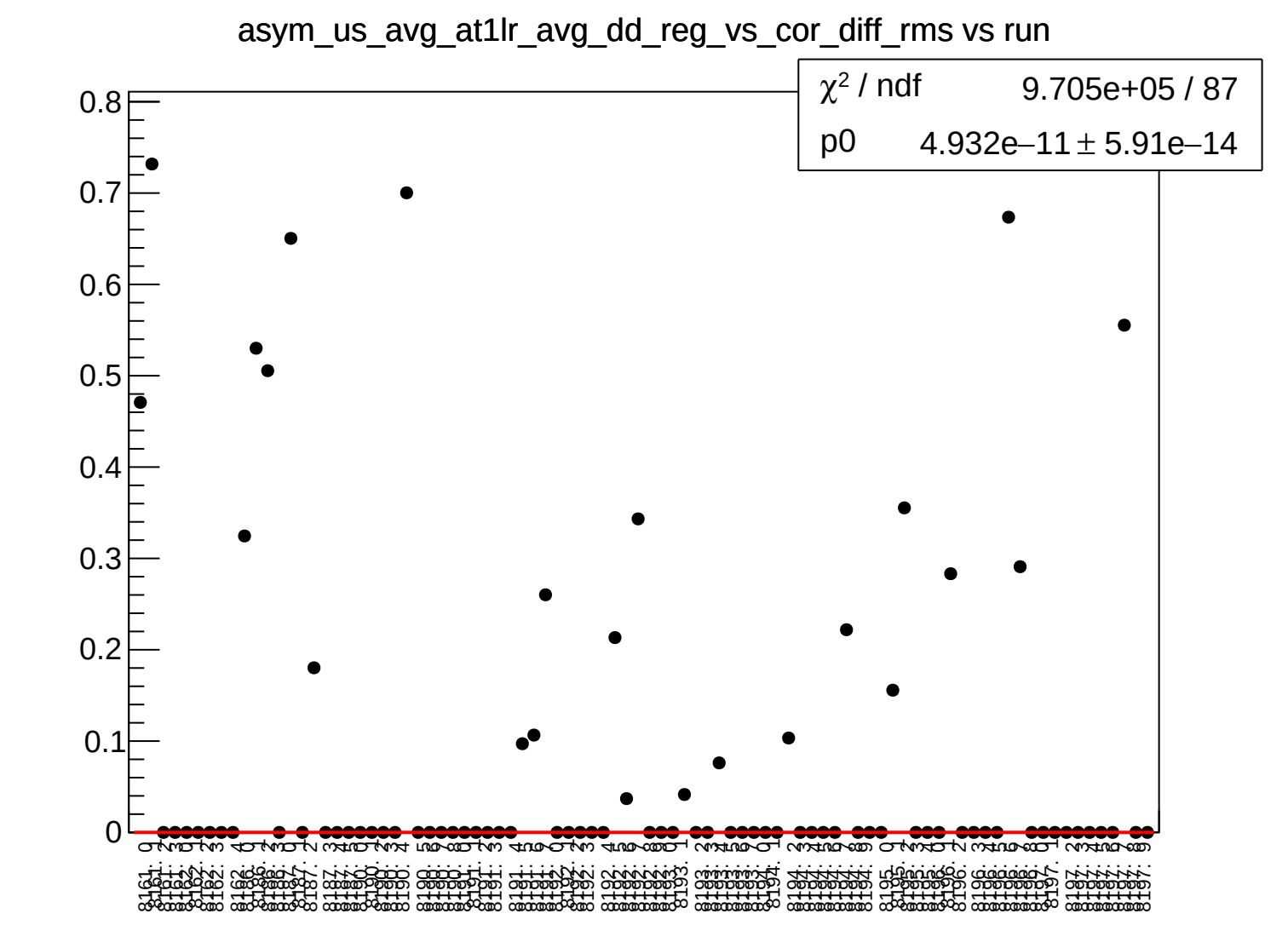

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.601e+05 / 87
p0 384.1 ± 0.3828
1000
900
800
700
600
500
400
300
200
100

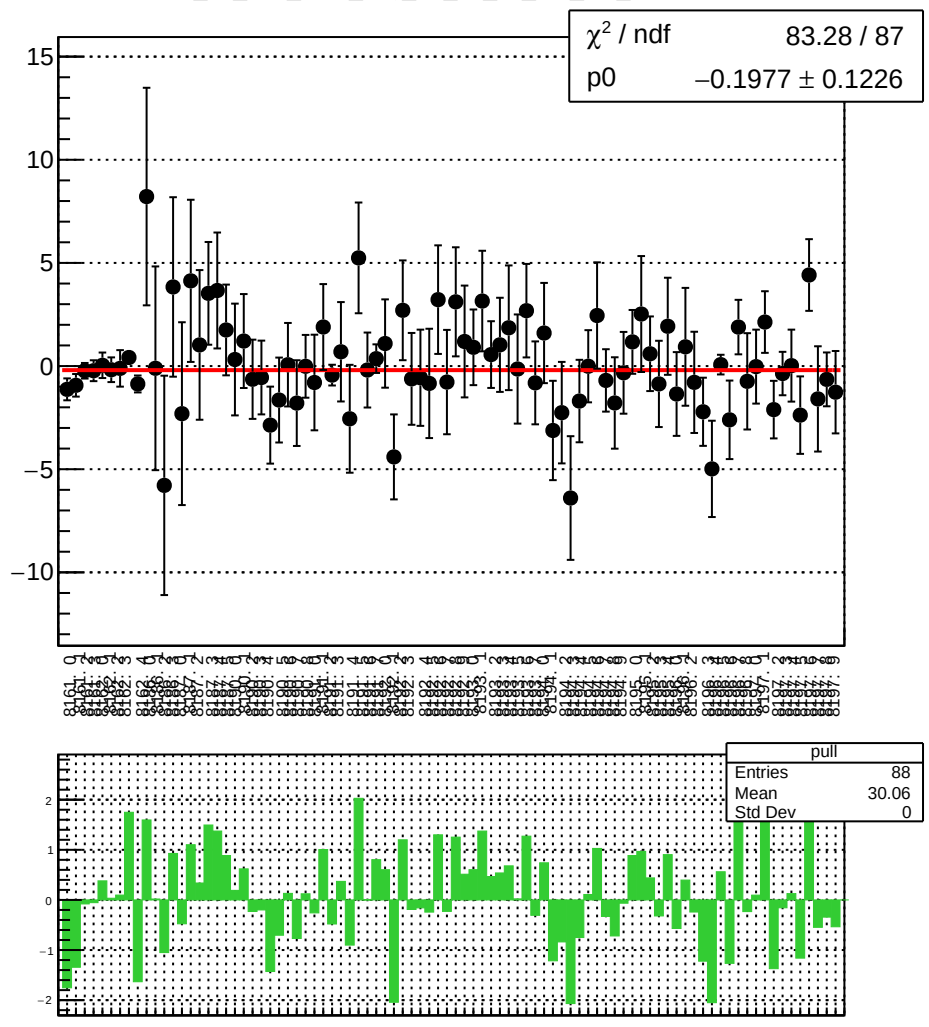

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 77.76 / 87
p0 −3823 ± 2031
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 679.7
Std Dev 0
2
1
0
−1
−2

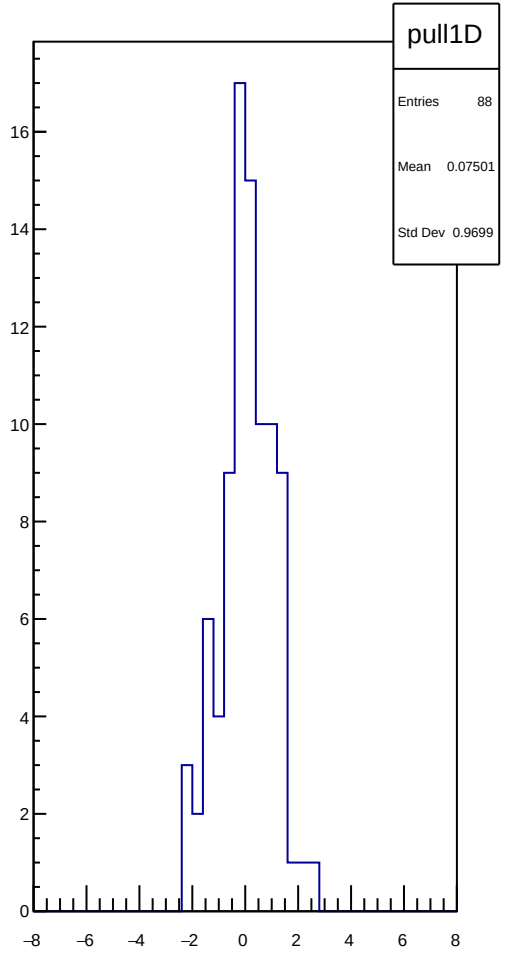

pull1D
Entries 88
Mean 0.005114
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

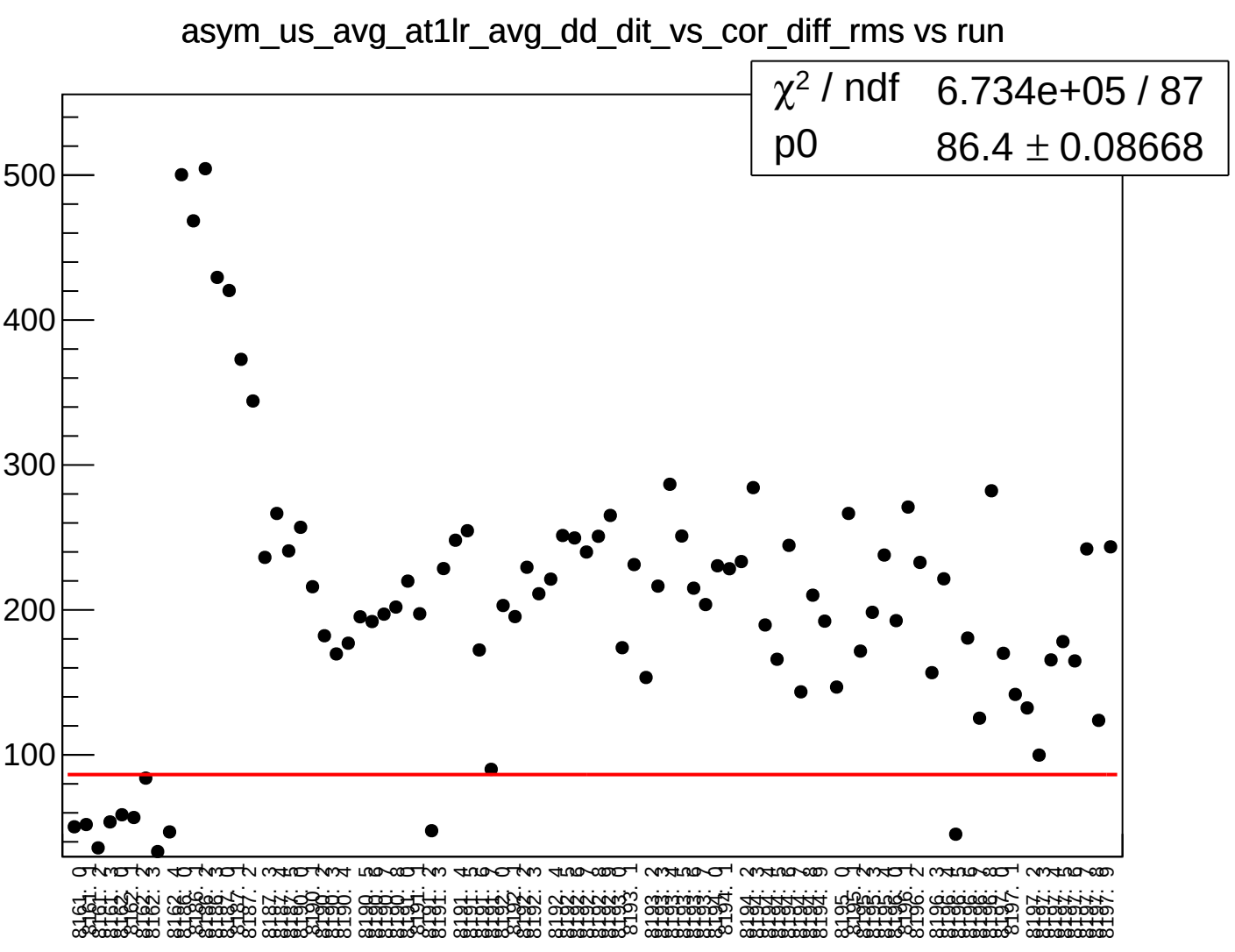

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2041 / 87
p0 1853 ± 1.436
2100
2050
2000
1950
1900
1850
1800
1750
1700

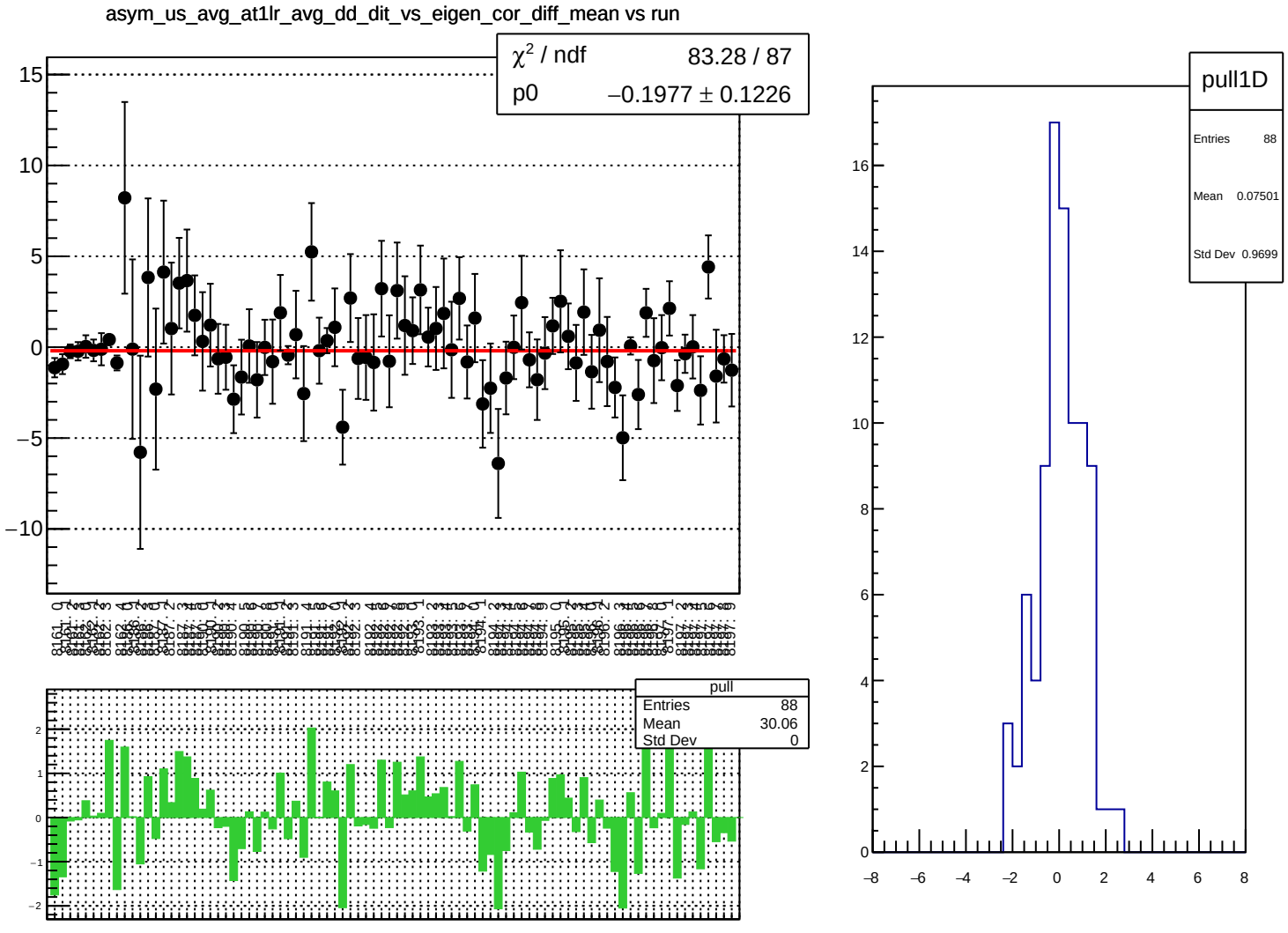

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.23 / 87
p0 −7.347e−15 ± 8.357e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 89.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.02813
Std Dev 0.9364
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

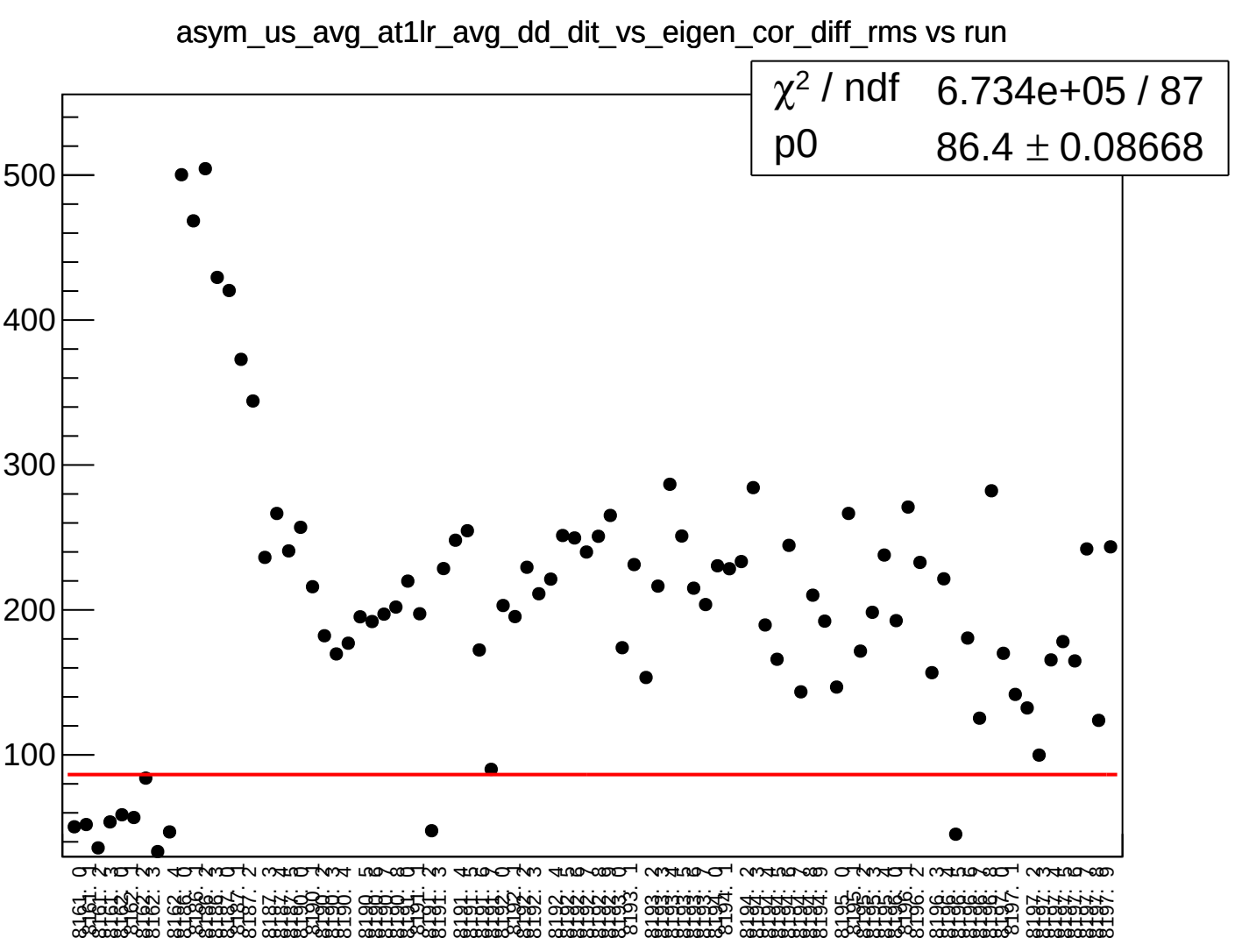

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.705e+05 / 87
p0 4.932e−11 ± 5.91e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

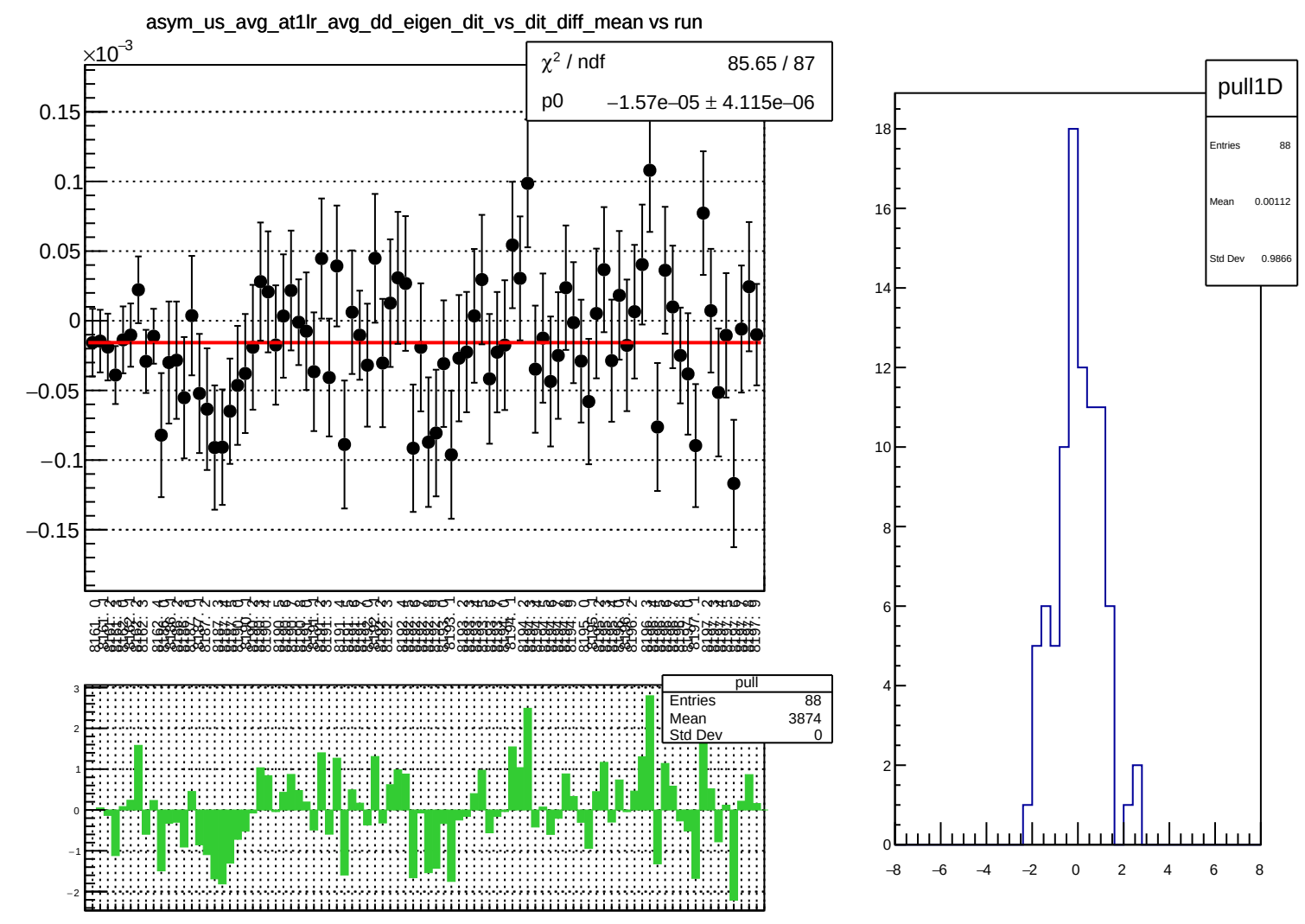

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.28 / 87
p0 −0.1977 ± 0.1226
pull
Entries 88
Mean 30.06
Std Dev 0

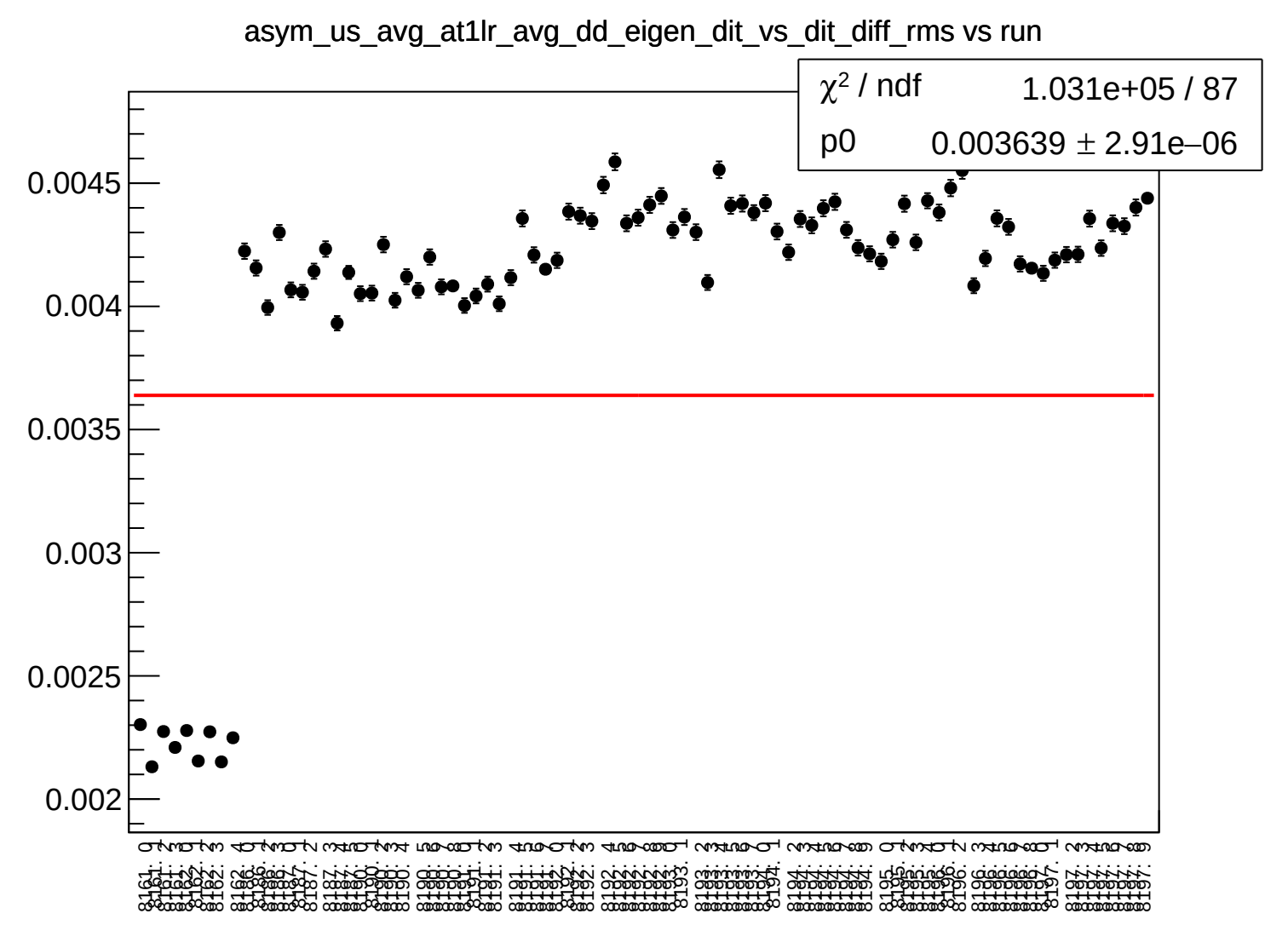

pull1D
Entries 88
Mean 0.07501
Std Dev 0.9699

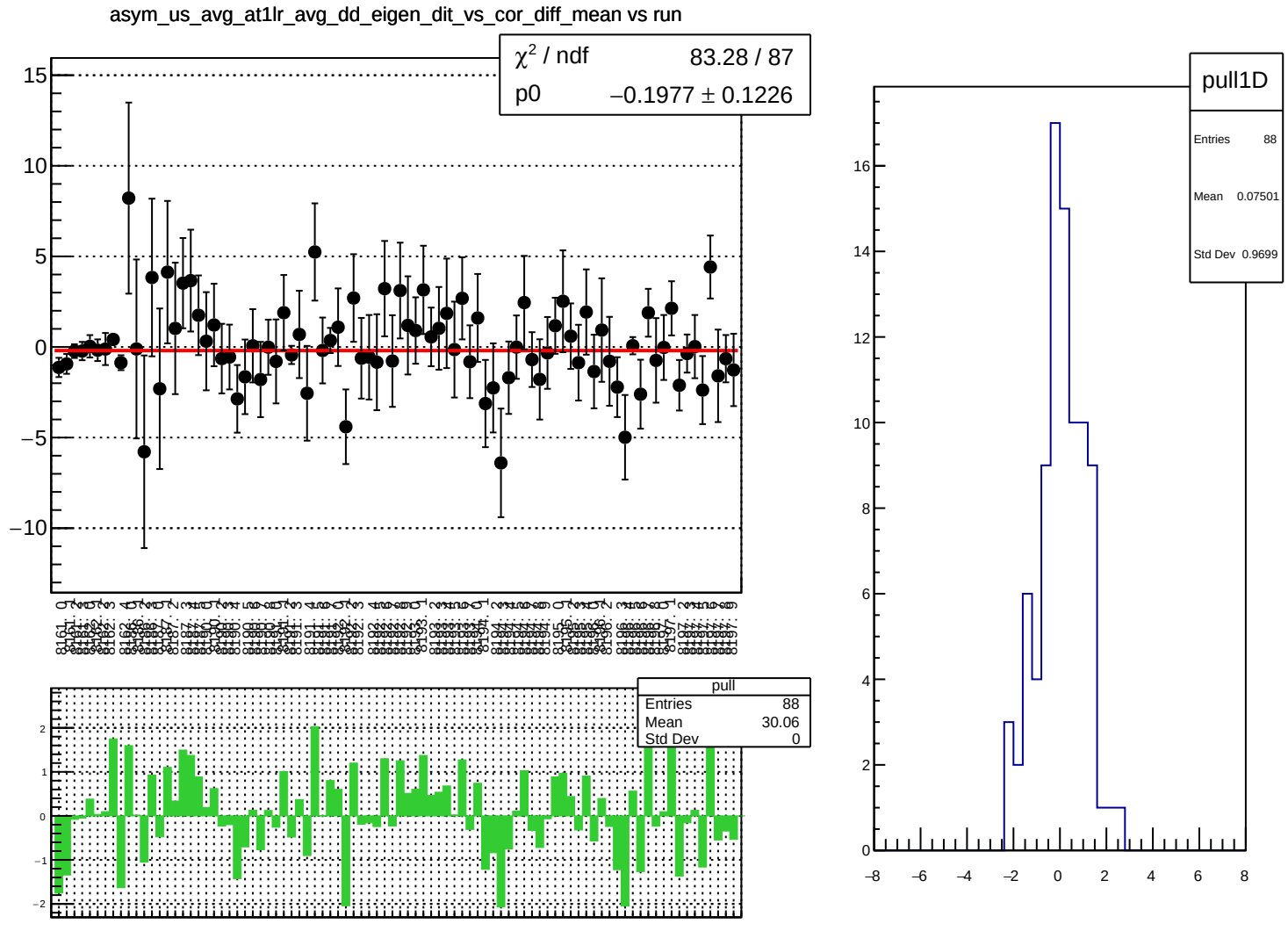

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.734e+05 / 87
p0 86.4 ± 0.08668
500
400
300
200
100

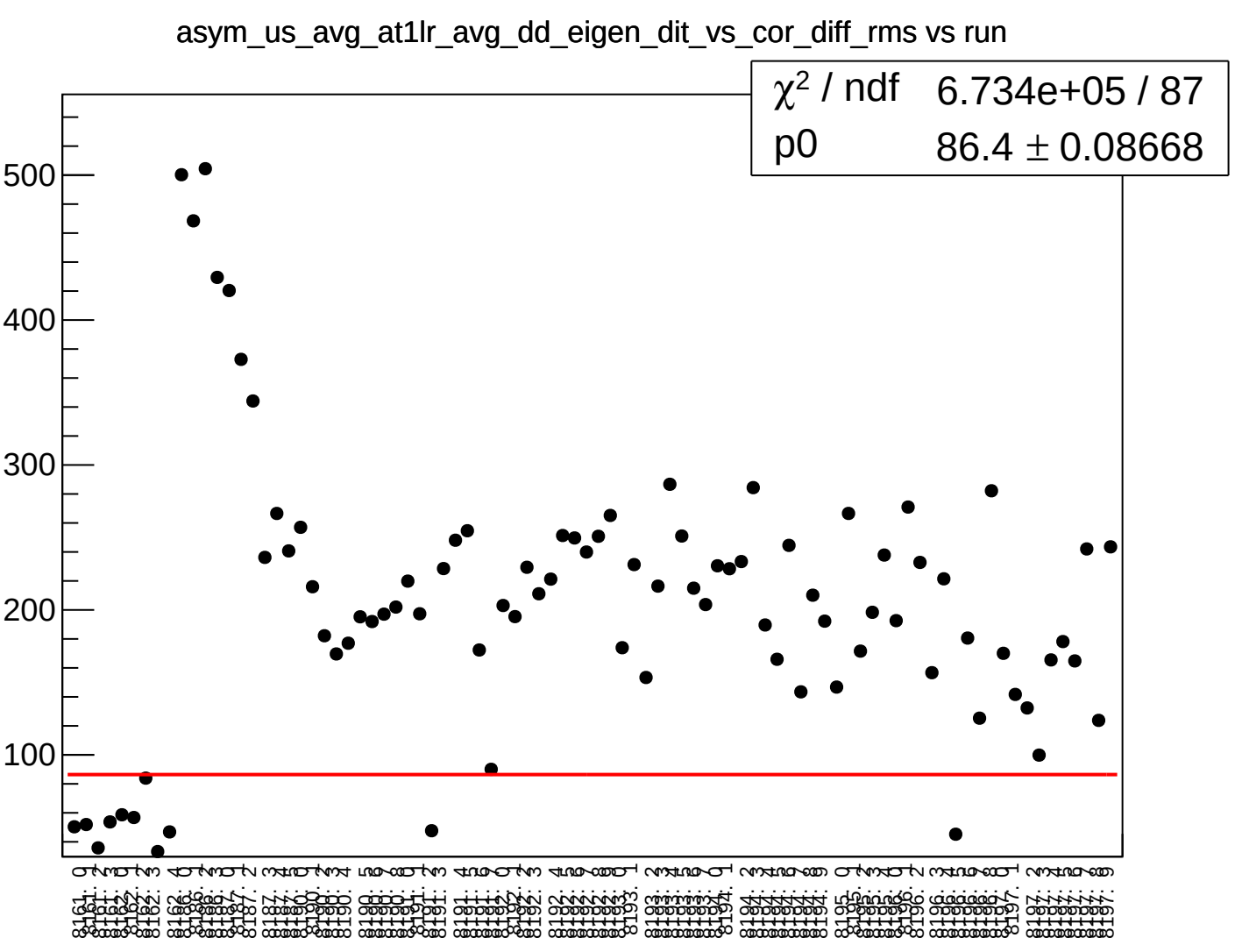

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.28 / 87
p0 −0.1977 ± 0.1226
pull
Entries 88
Mean 30.06
Std Dev 0
pull1D
Entries 88
Mean 0.07501
Std Dev 0.9699

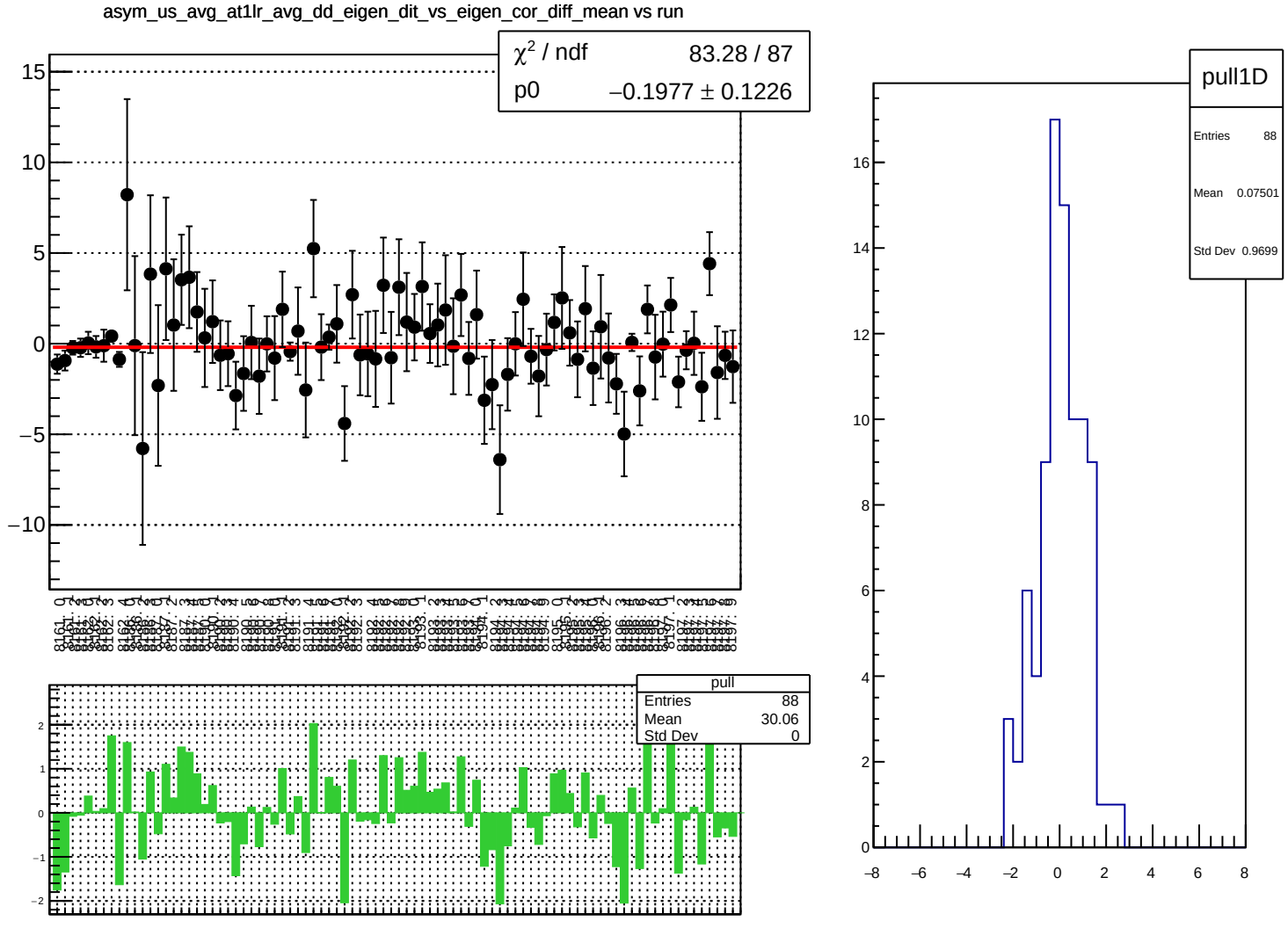

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.734e+05 / 87
p0 86.4 ± 0.08668
500
400
300
200
100

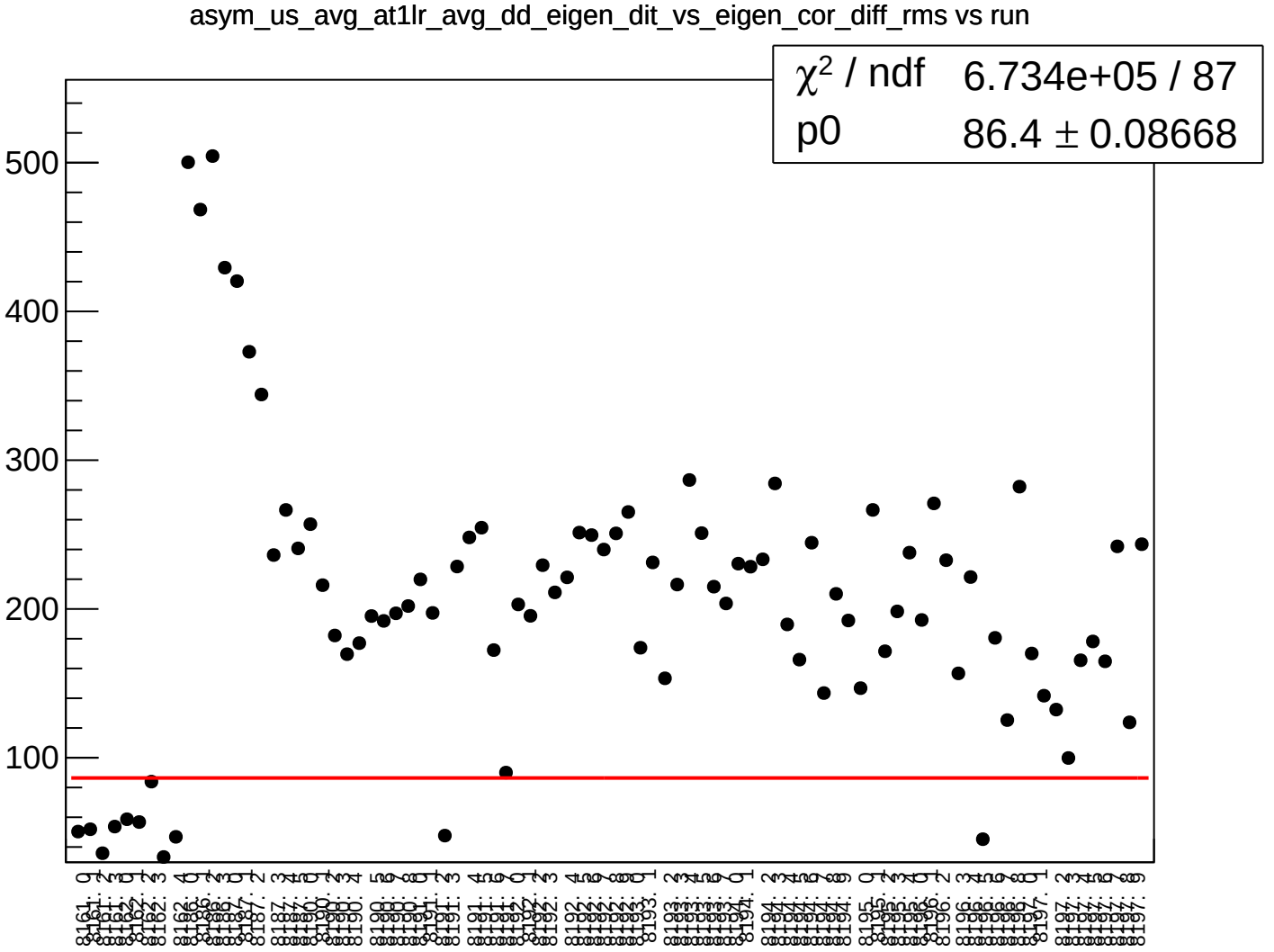

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.65 / 87
p0 −1.57e−05 ± 4.115e−06
pull
Entries 88
Mean 3874
Std Dev 0
pull1D
Entries 88
Mean 0.00112
Std Dev 0.9866

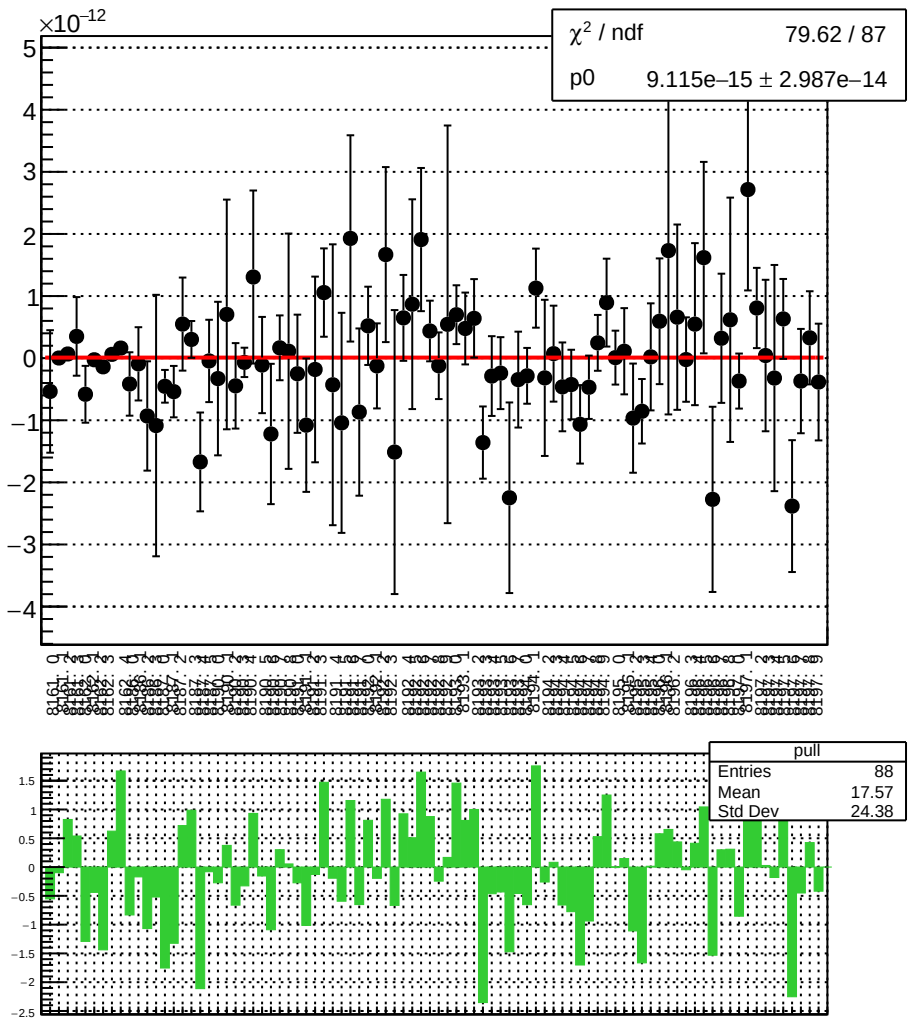

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.031e+05 / 87
p0 0.003639 ± 2.91e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

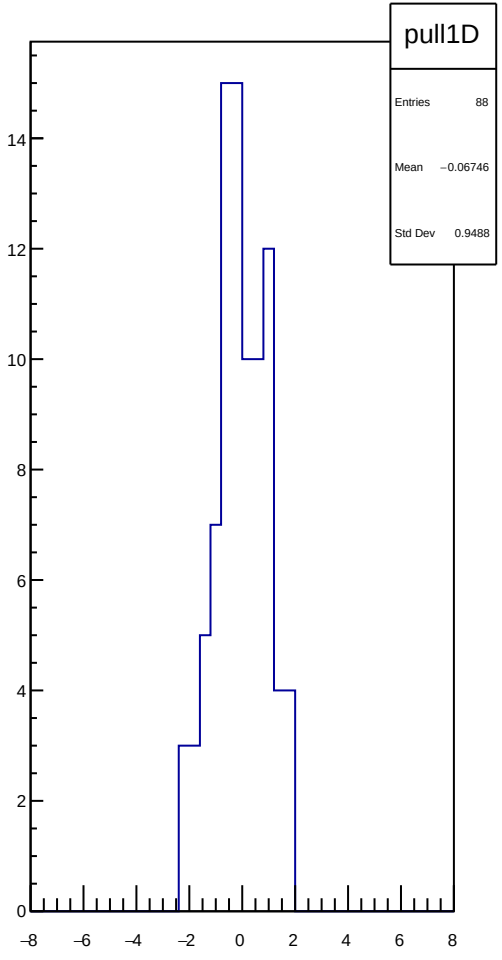

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.28 / 87
p0 −0.1977 ± 0.1226
pull
Entries 88
Mean 30.06
Std Dev 0
pull1D
Entries 88
Mean 0.07501
Std Dev 0.9699

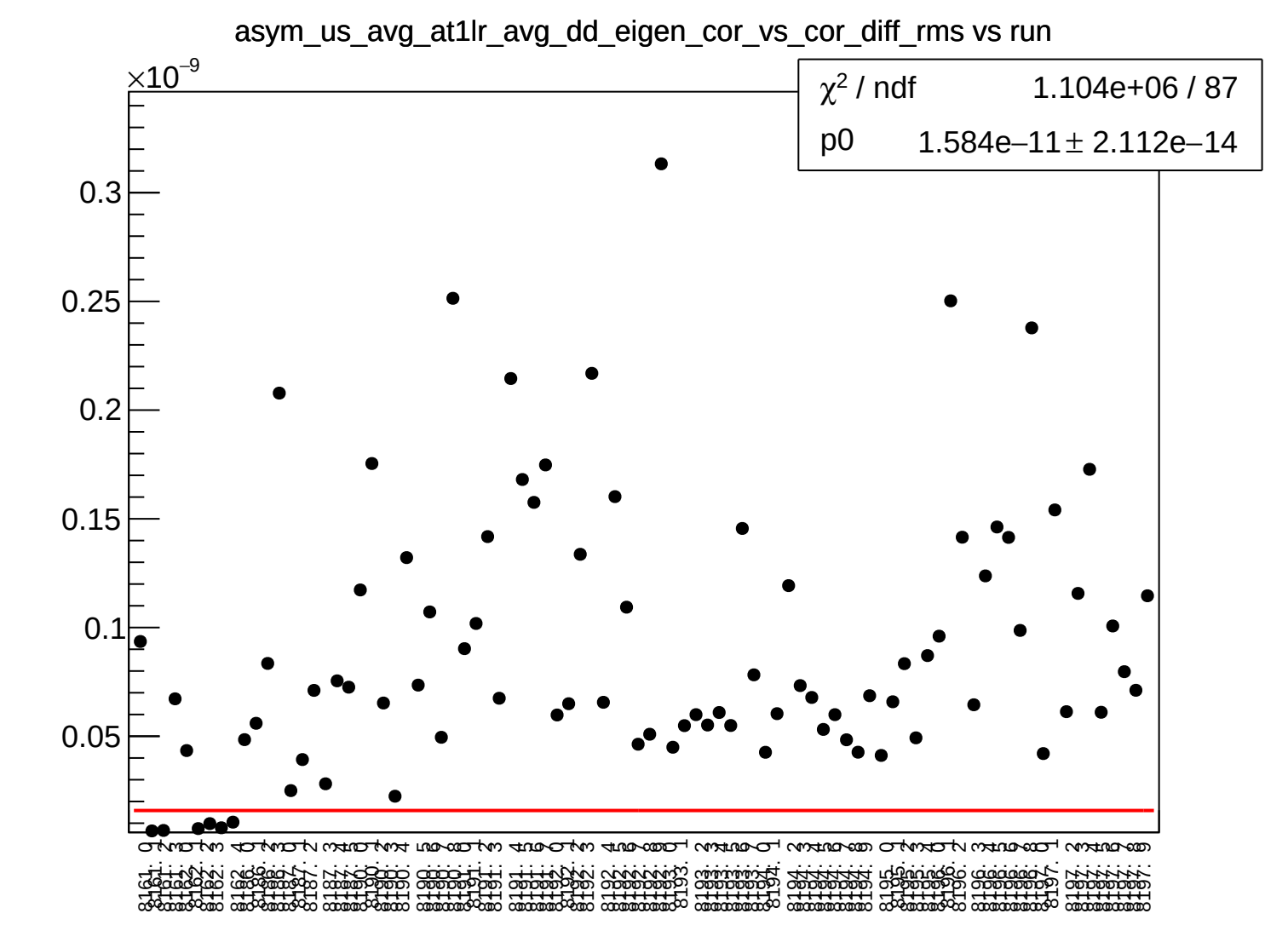

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.734e+05 / 87
p0 86.4 ± 0.08668
500
400
300
200
100

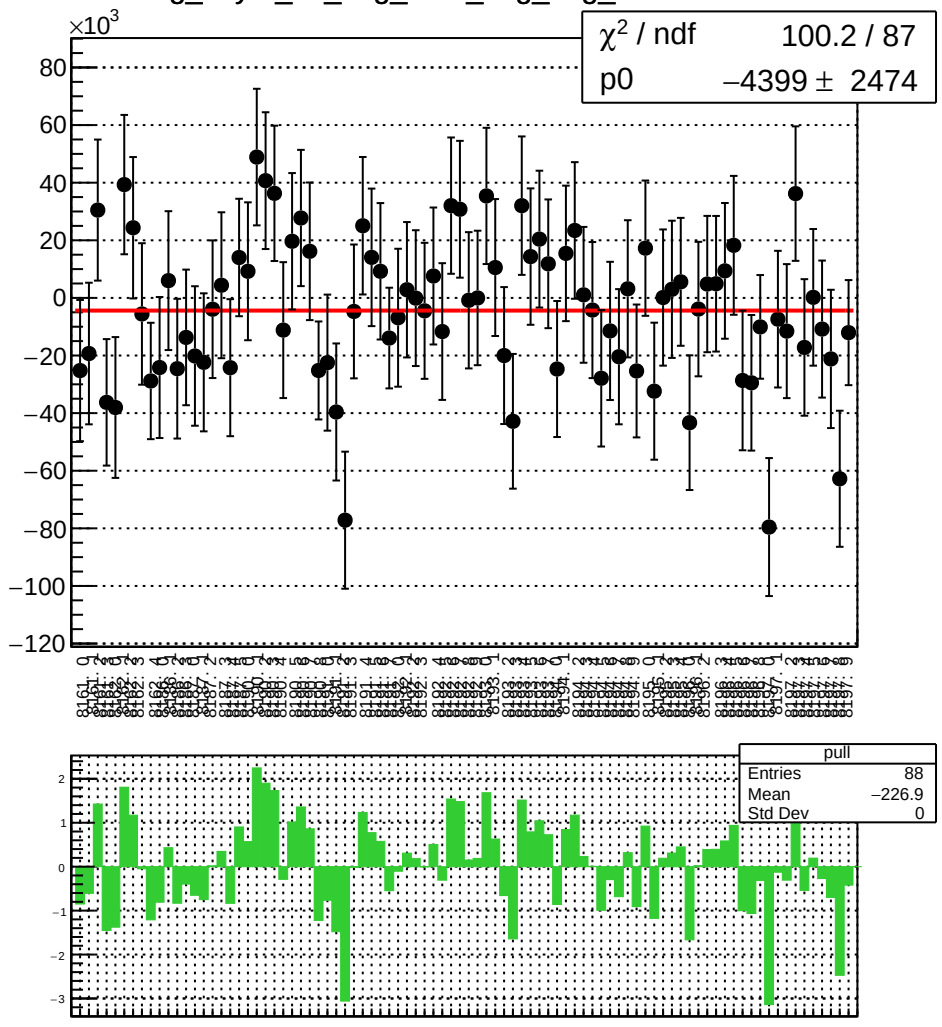

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.28 / 87
p0 −0.1977 ± 0.1226
pull
Entries 88
Mean 30.06
Std Dev 0
pull1D
Entries 88
Mean 0.07501
Std Dev 0.9699

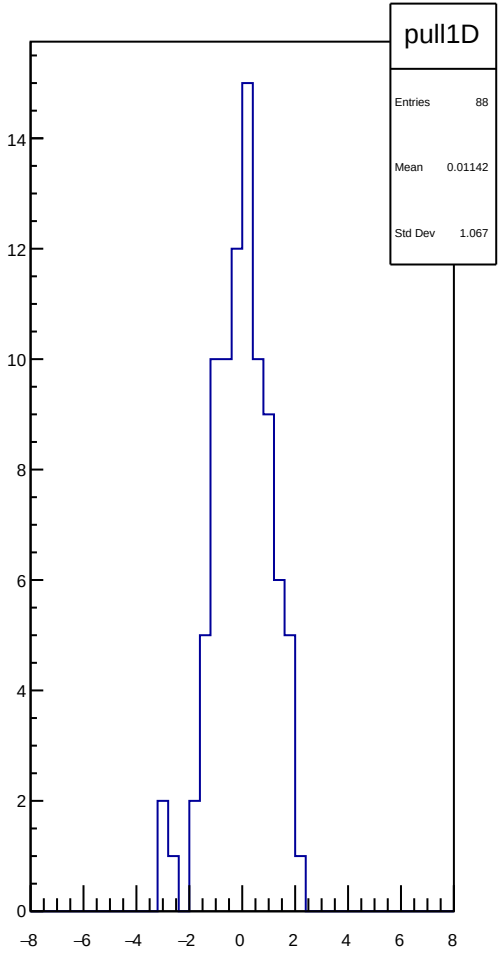

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.734e+05 / 87
p0 86.4 ± 0.08668
500
400
300
200
100

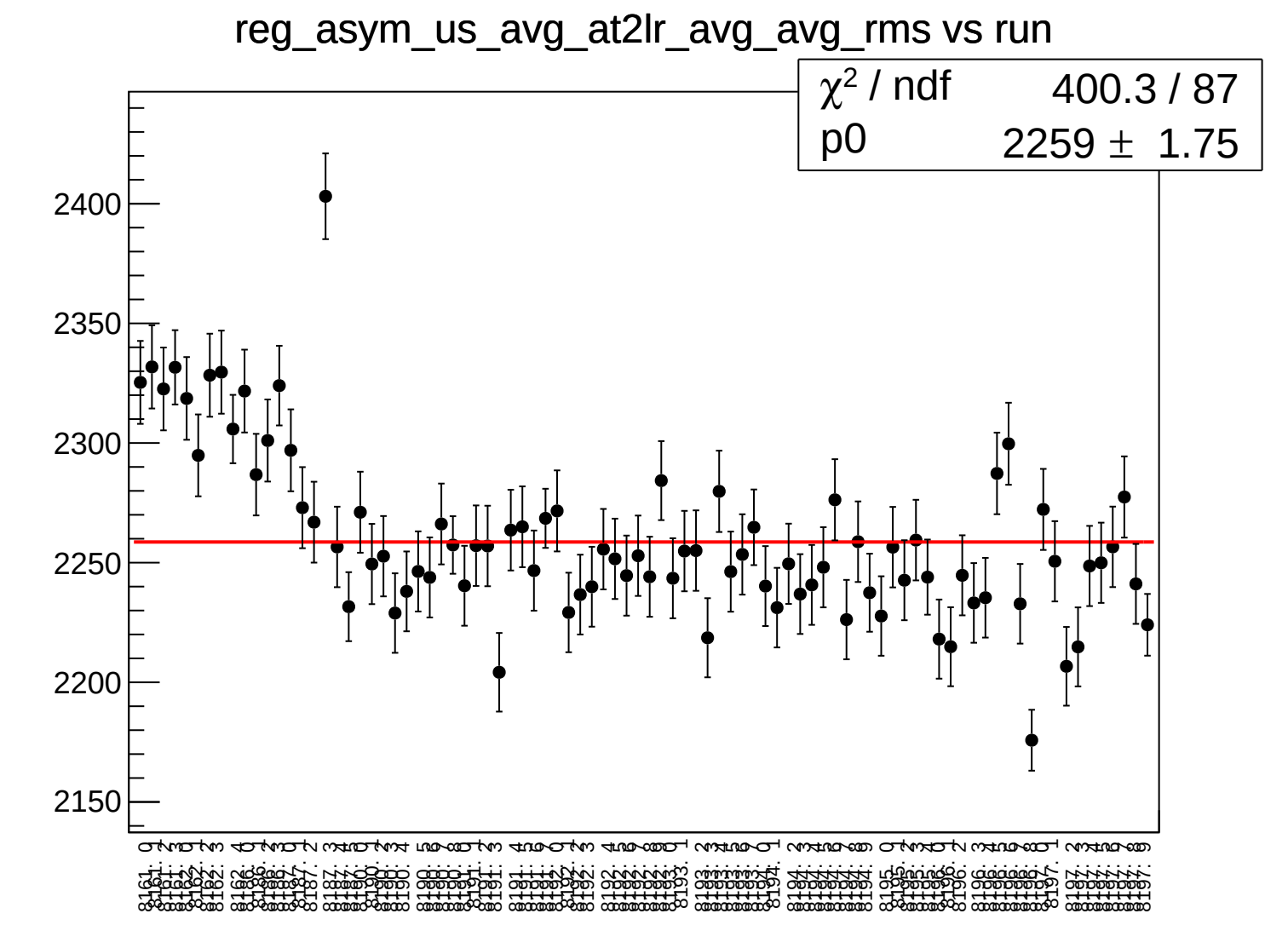

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.62 / 87
p0 9.115e−15 ± 2.987e−14
pull
Entries 88
Mean 17.57
Std Dev 24.38

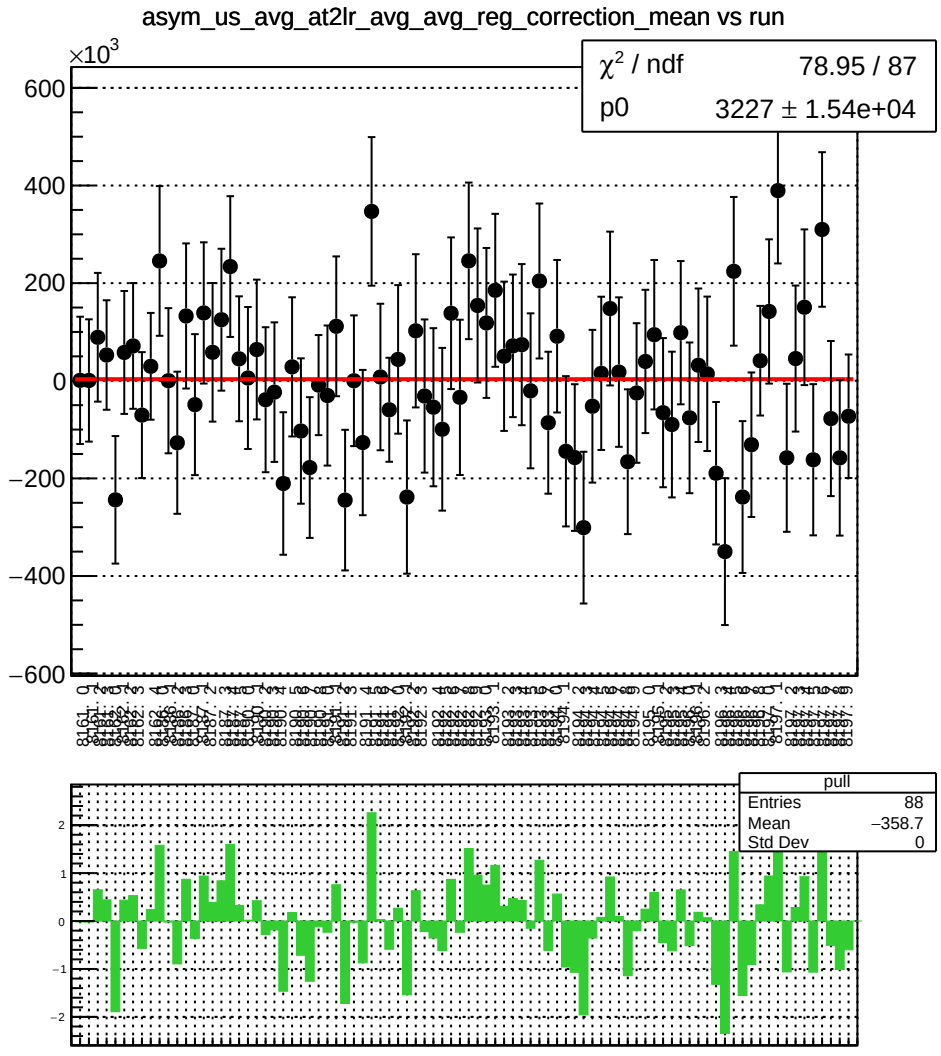

pull1D
Entries 88
Mean −0.06746
Std Dev 0.9488

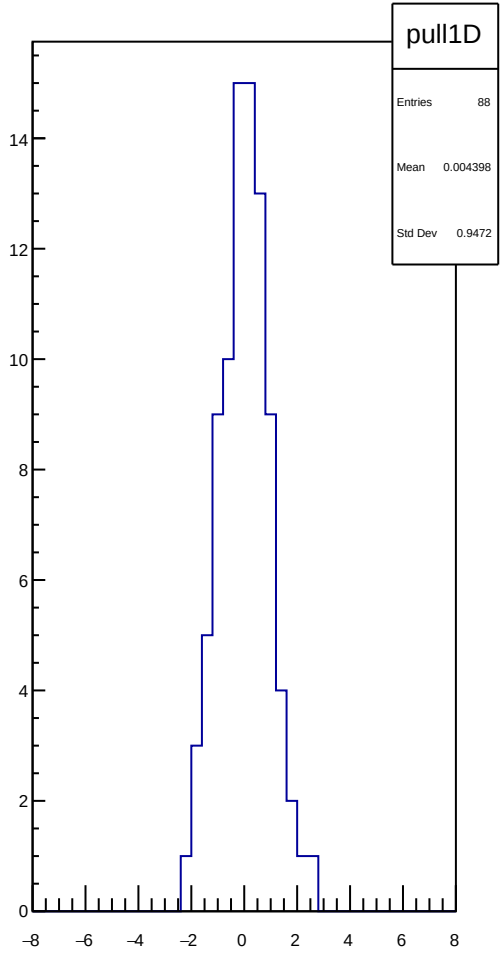

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.104e+06 / 87
p0 1.584e−11 ± 2.112e−14
0.3
0.25
0.2
0.15
0.1
0.05

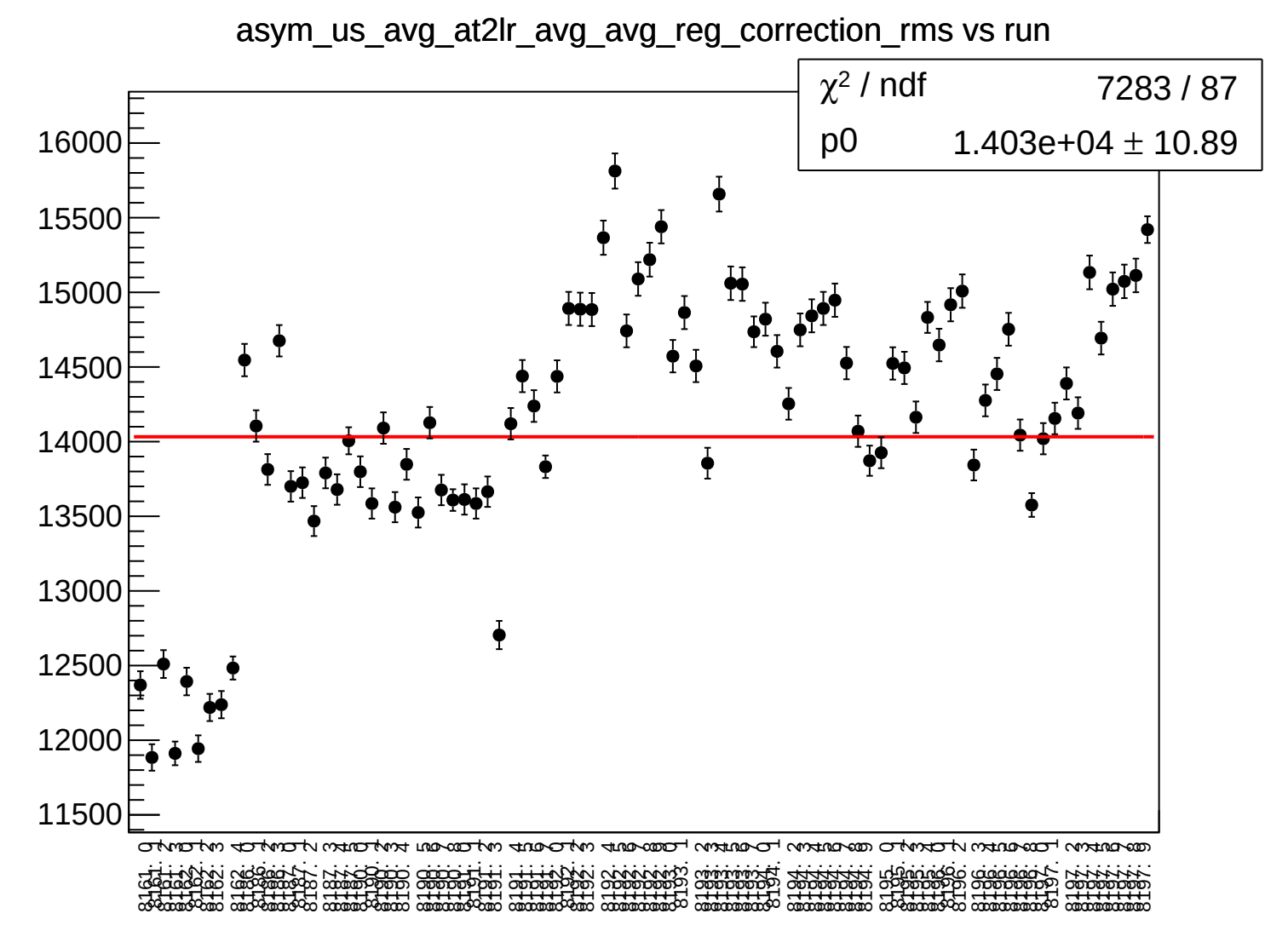

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 100.2 / 87
p0 −4399 ± 2474
pull
Entries 88
Mean −226.9
Std Dev 0

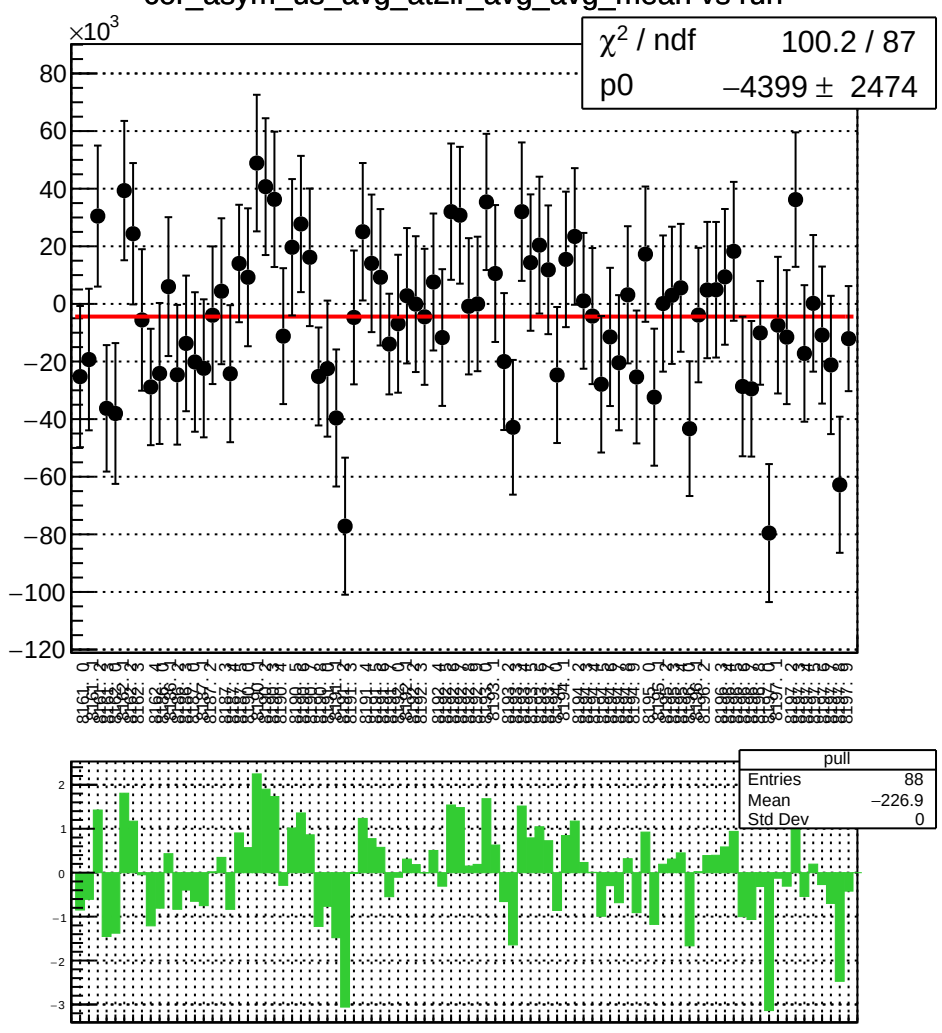

pull1D
Entries 88
Mean 0.01142
Std Dev 1.067

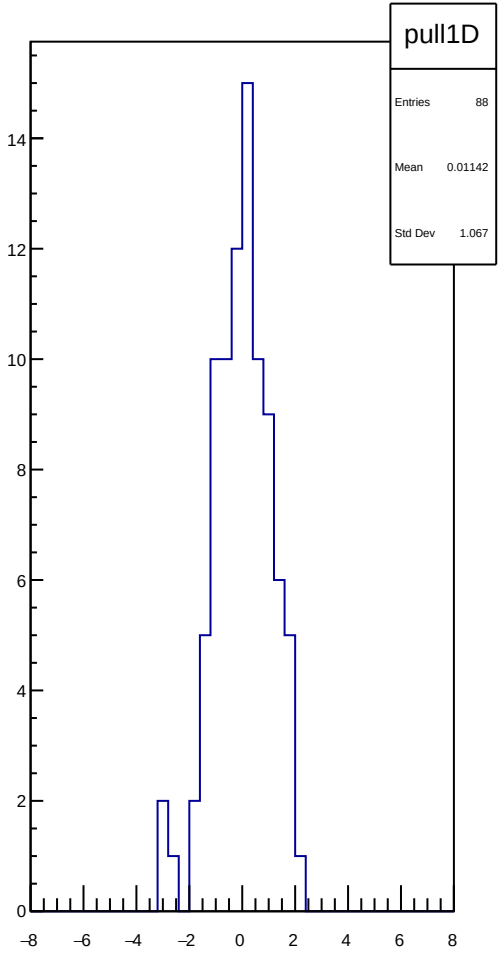

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 400.3 / 87
p0 2259 ± 1.75
2400
2350
2300
2250
2200
2150

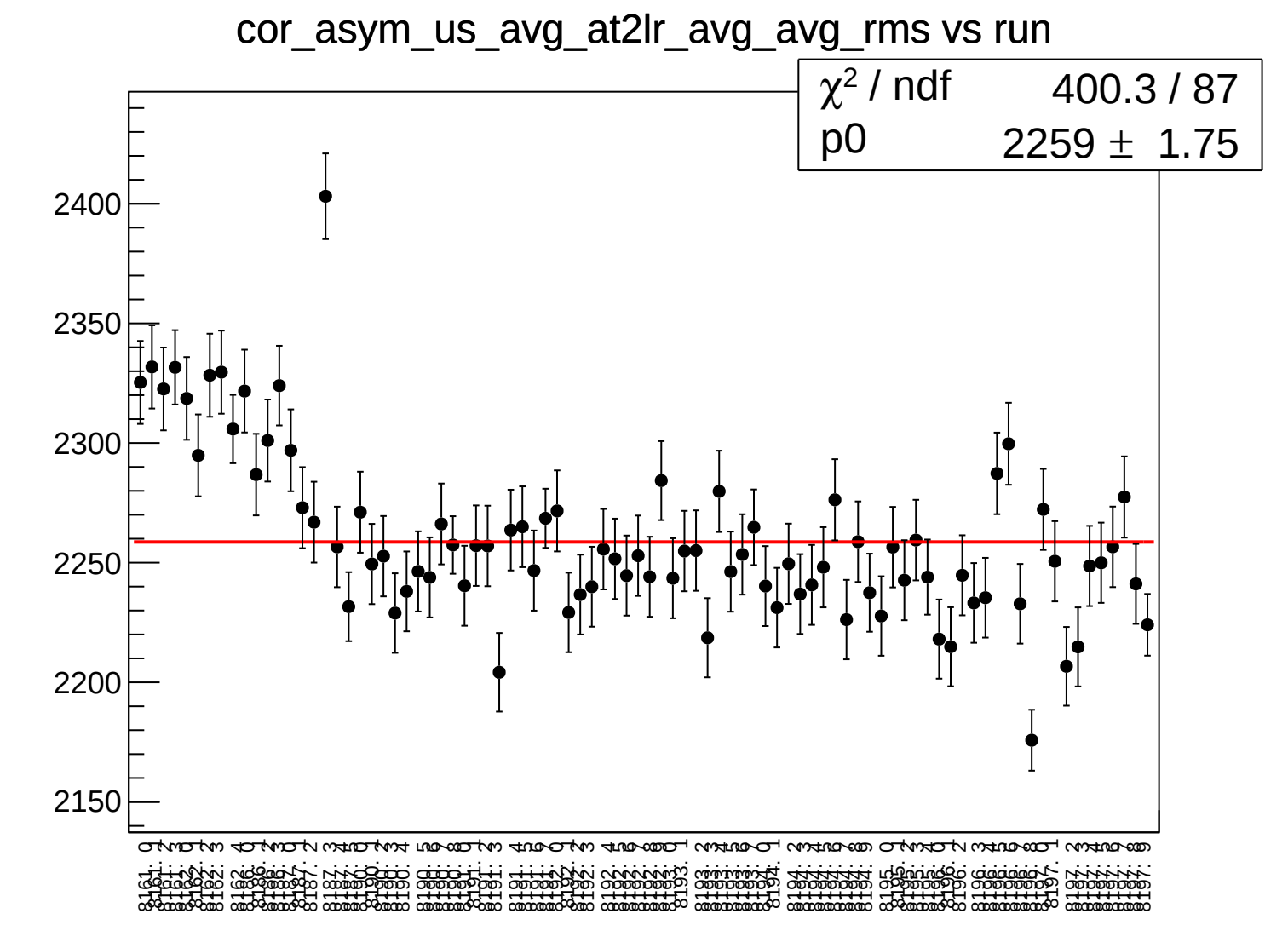

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 78.95 / 87
p0 3227 ± 1.54e+04
pull
Entries 88
Mean −358.7
Std Dev 0

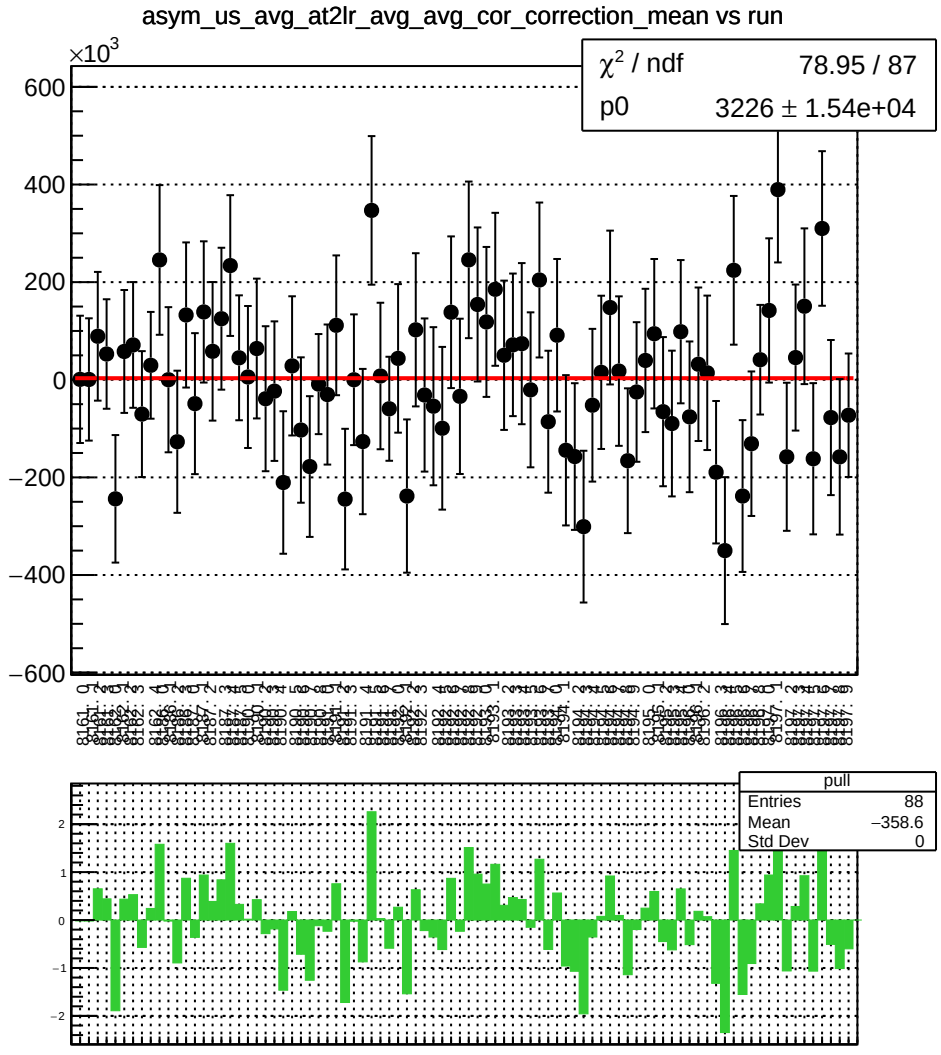

pull1D
Entries 88
Mean 0.004398
Std Dev 0.9472

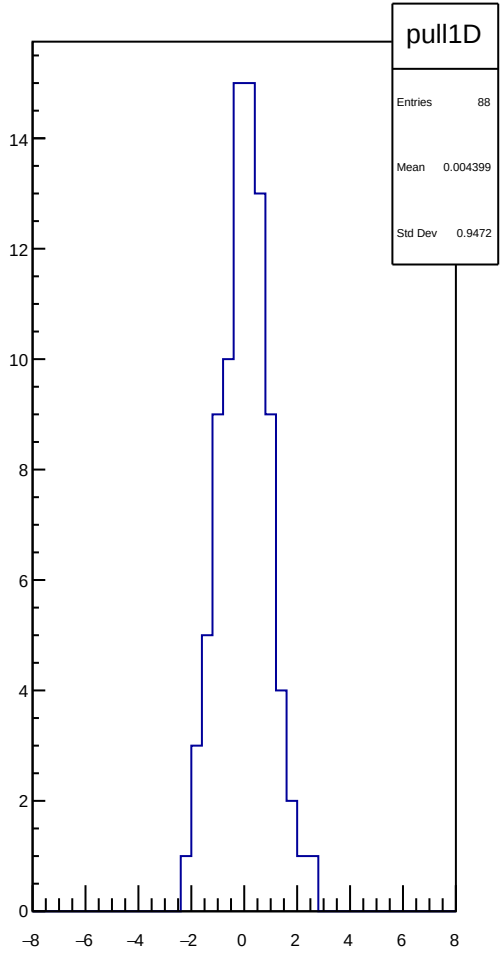

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 7283 / 87
p0 1.403e+04 ± 10.89
16000
15500
15000
14500
14000
13500
13000
12500
12000
11500

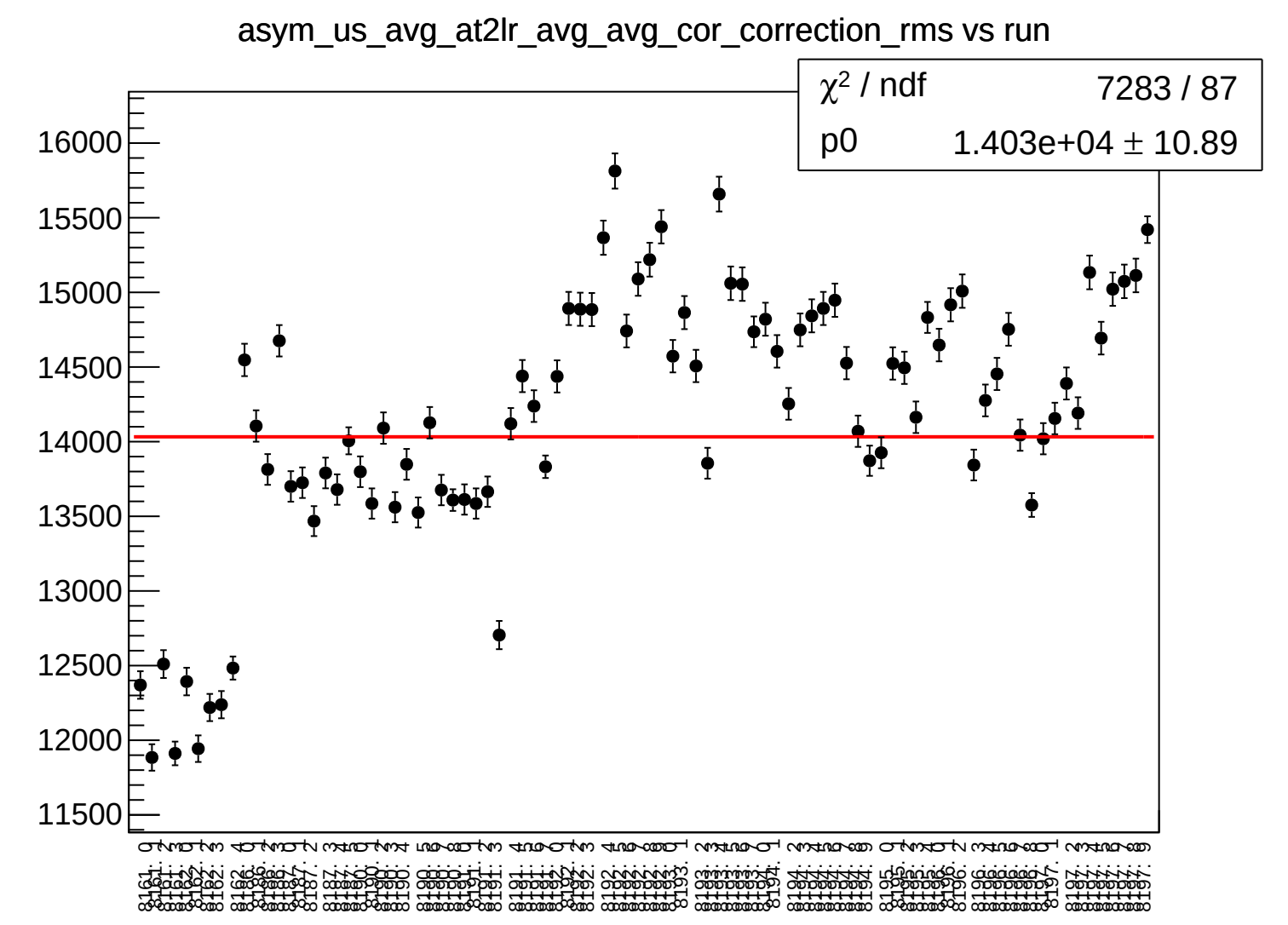

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 100.2 / 87
p0 −4399 ± 2474
pull
Entries 88
Mean −226.9
Std Dev 0

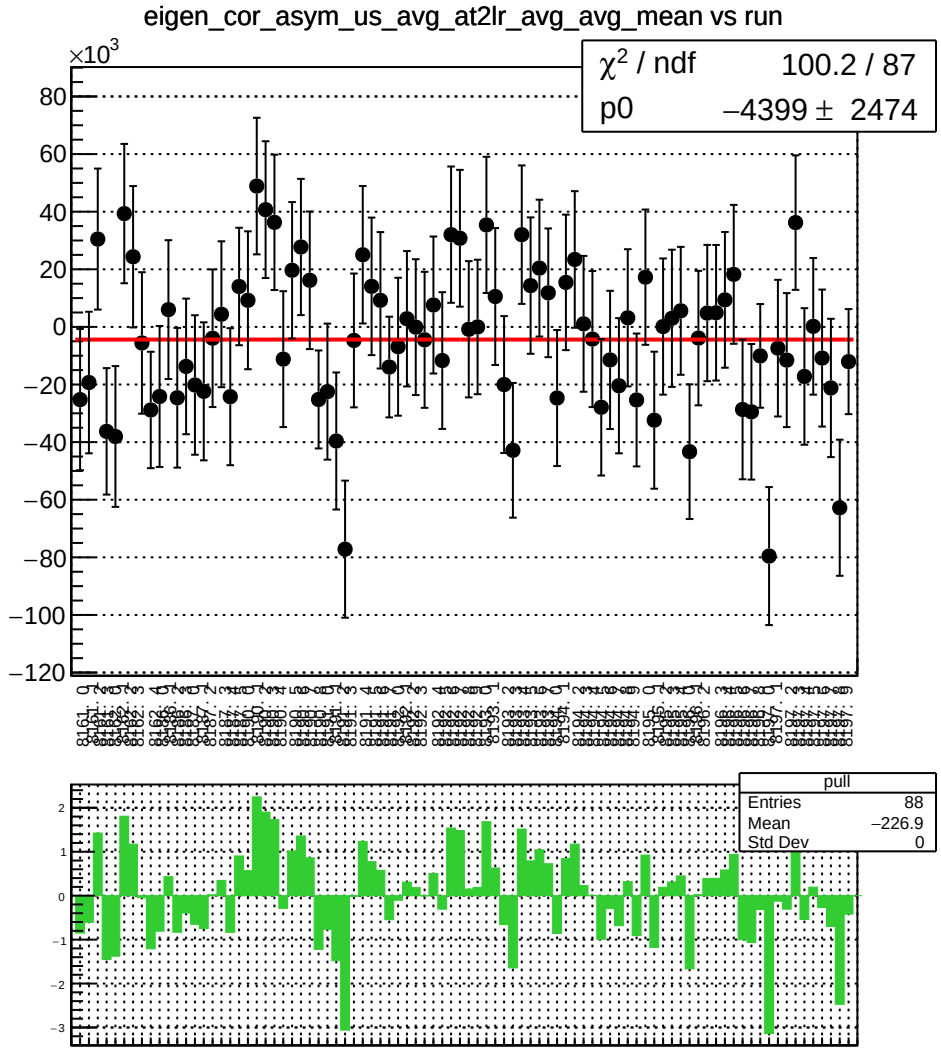

pull1D
Entries 88
Mean 0.01142
Std Dev 1.067

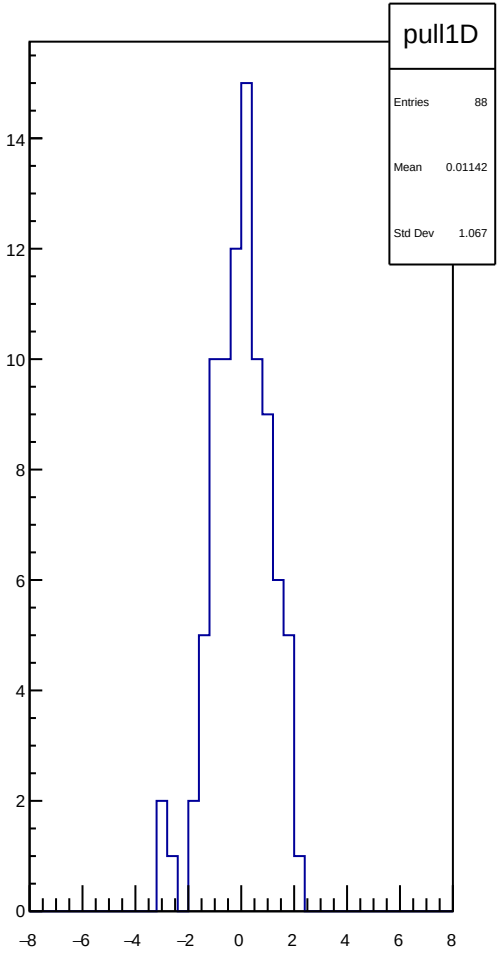

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 400.3 / 87
p0 2259 ± 1.75
2400
2350
2300
2250
2200
2150

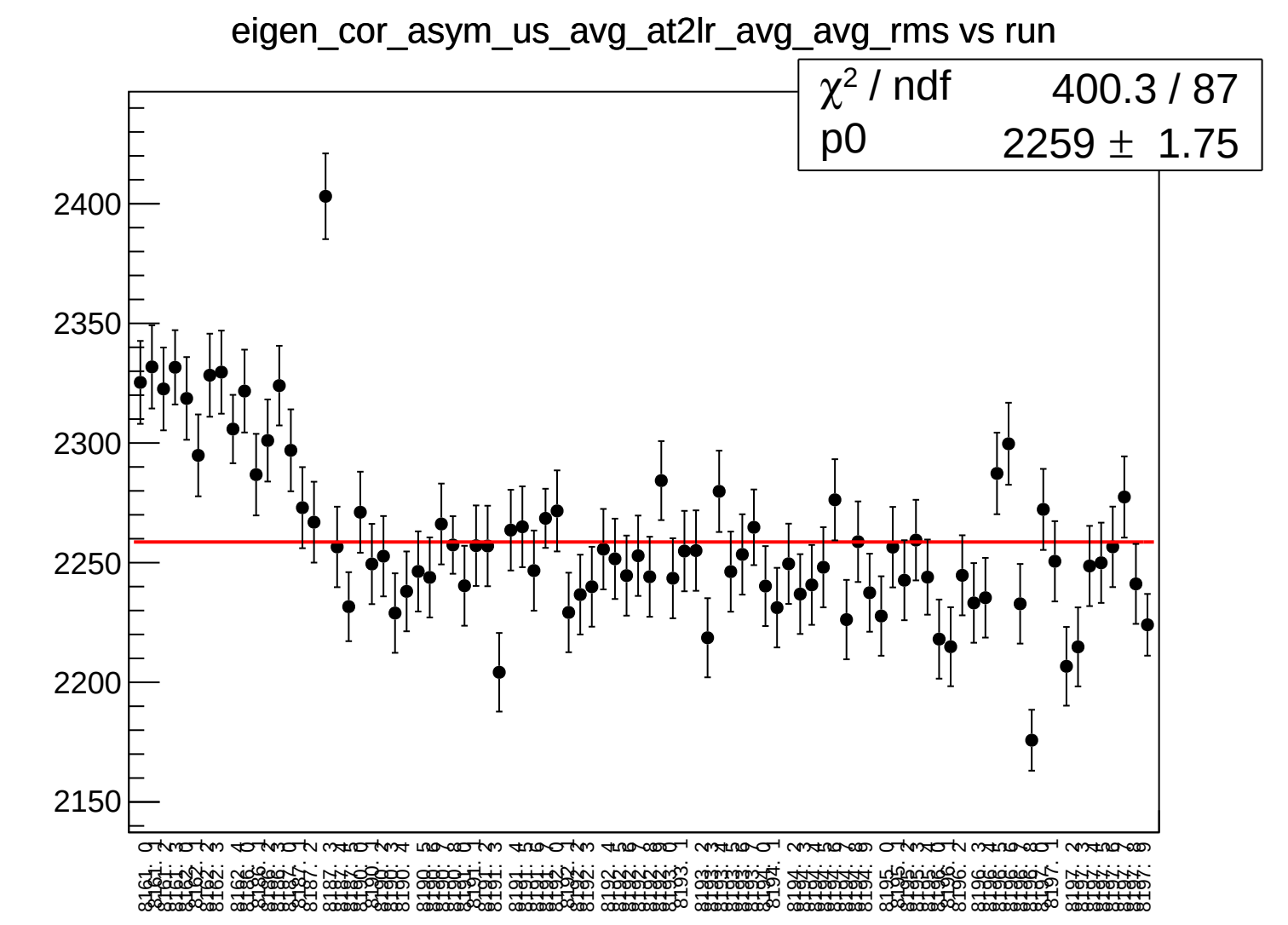

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 78.95 / 87
p0 3226 ± 1.54e+04
pull
Entries 88
Mean −358.6
Std Dev 0
2
1
0
−1
−2

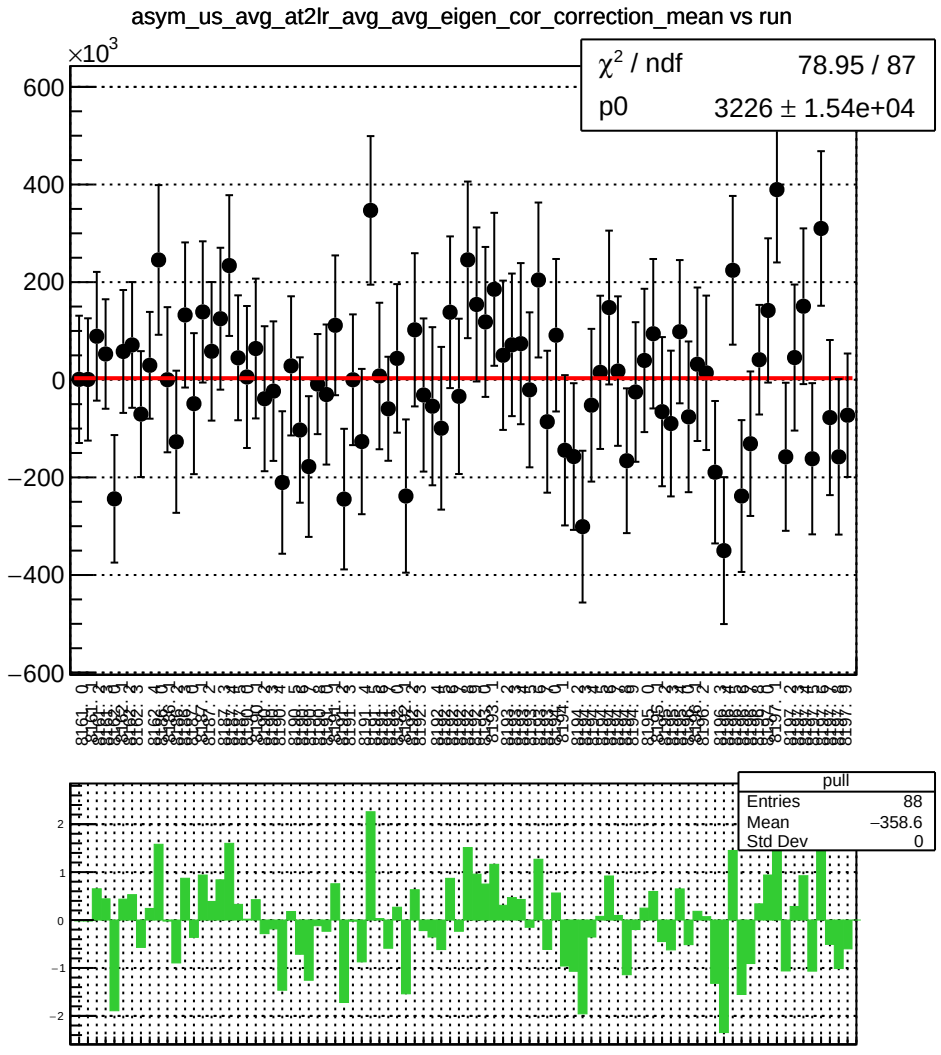

pull1D
Entries 88
Mean 0.004399
Std Dev 0.9472
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

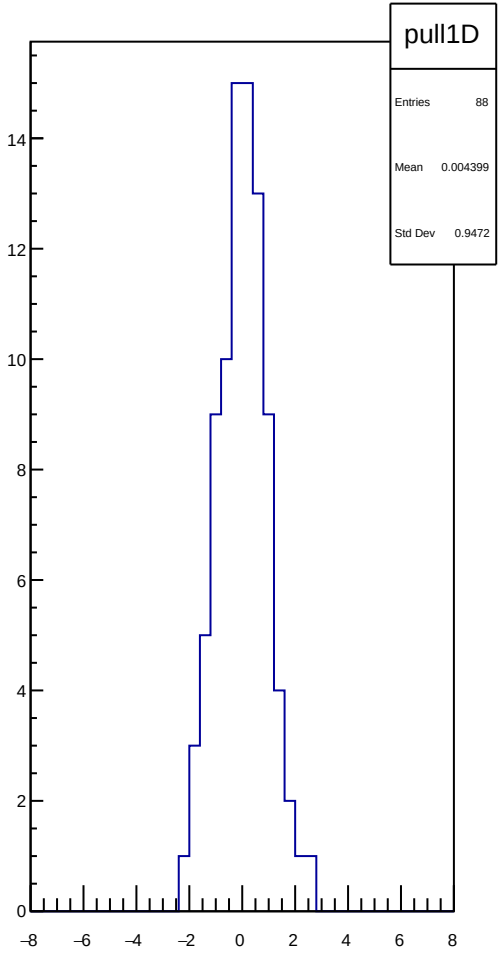

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 7283 / 87
p0 1.403e+04 ± 10.89
16000
15500
15000
14500
14000
13500
13000
12500
12000
11500

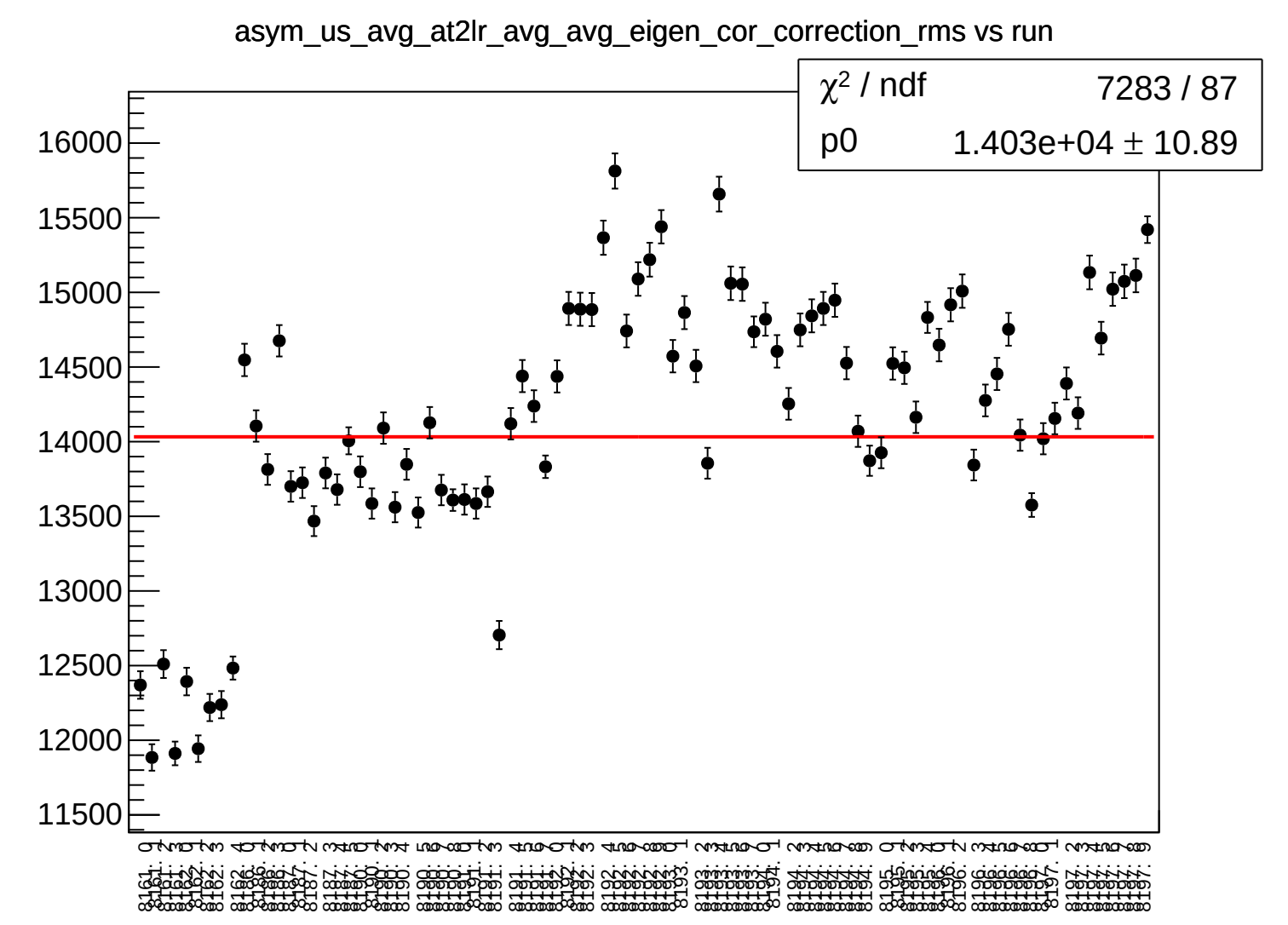

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 100.2 / 87
p0 −4399 ± 2474
pull
Entries 88
Mean −226.9
Std Dev 0

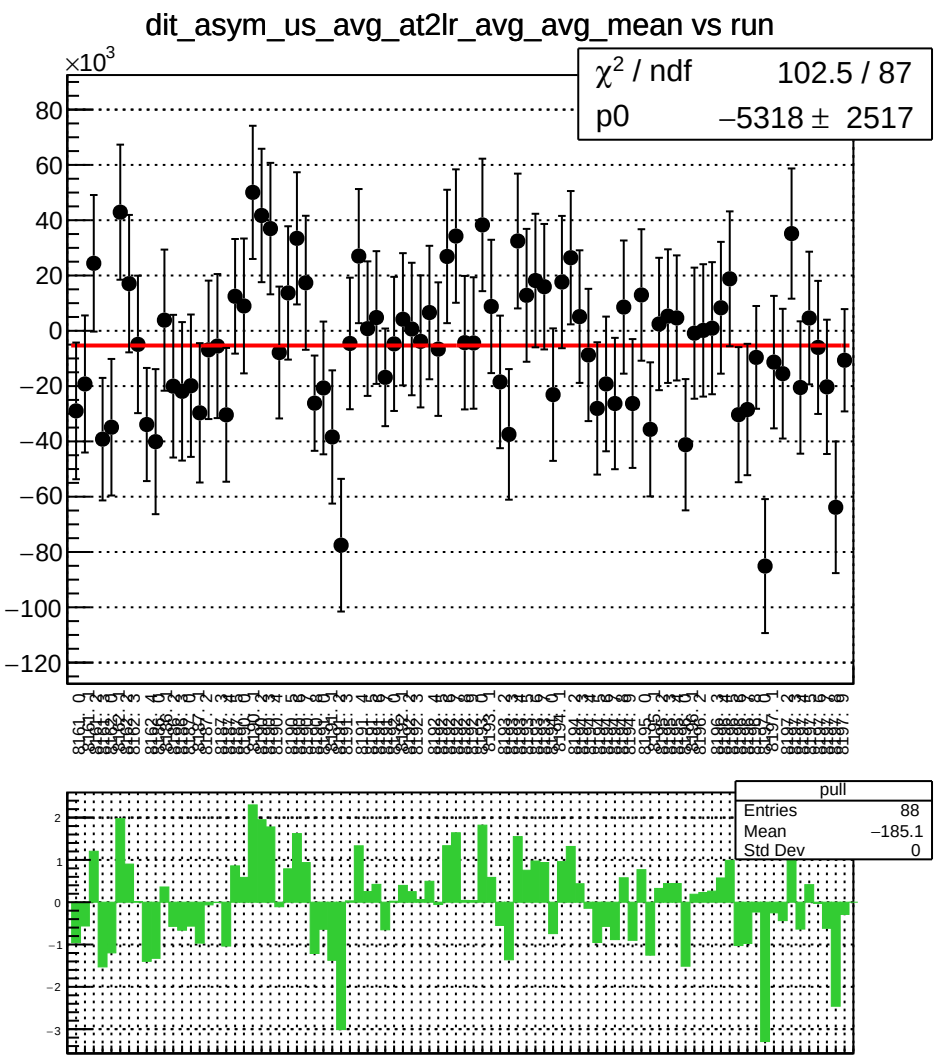

pull1D
Entries 88
Mean 0.01142
Std Dev 1.067

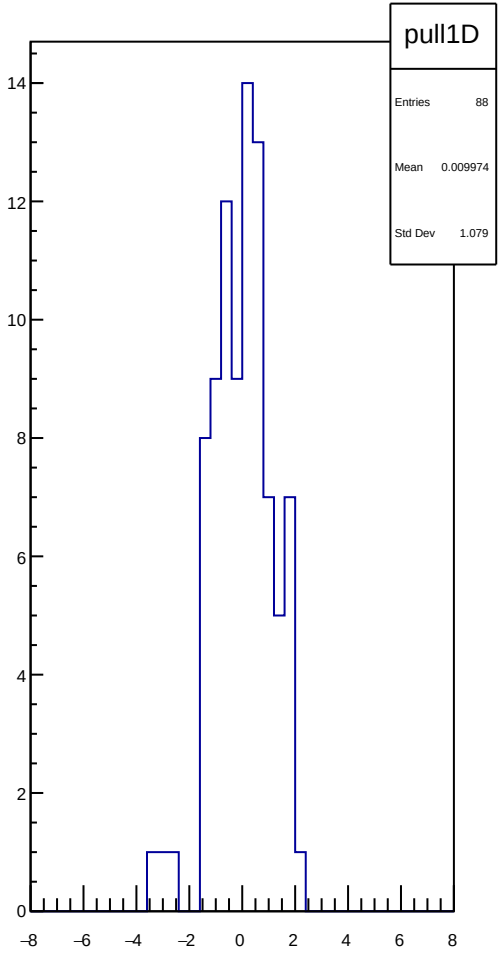

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 400.3 / 87
p0 2259 ± 1.75
2400
2350
2300
2250
2200
2150

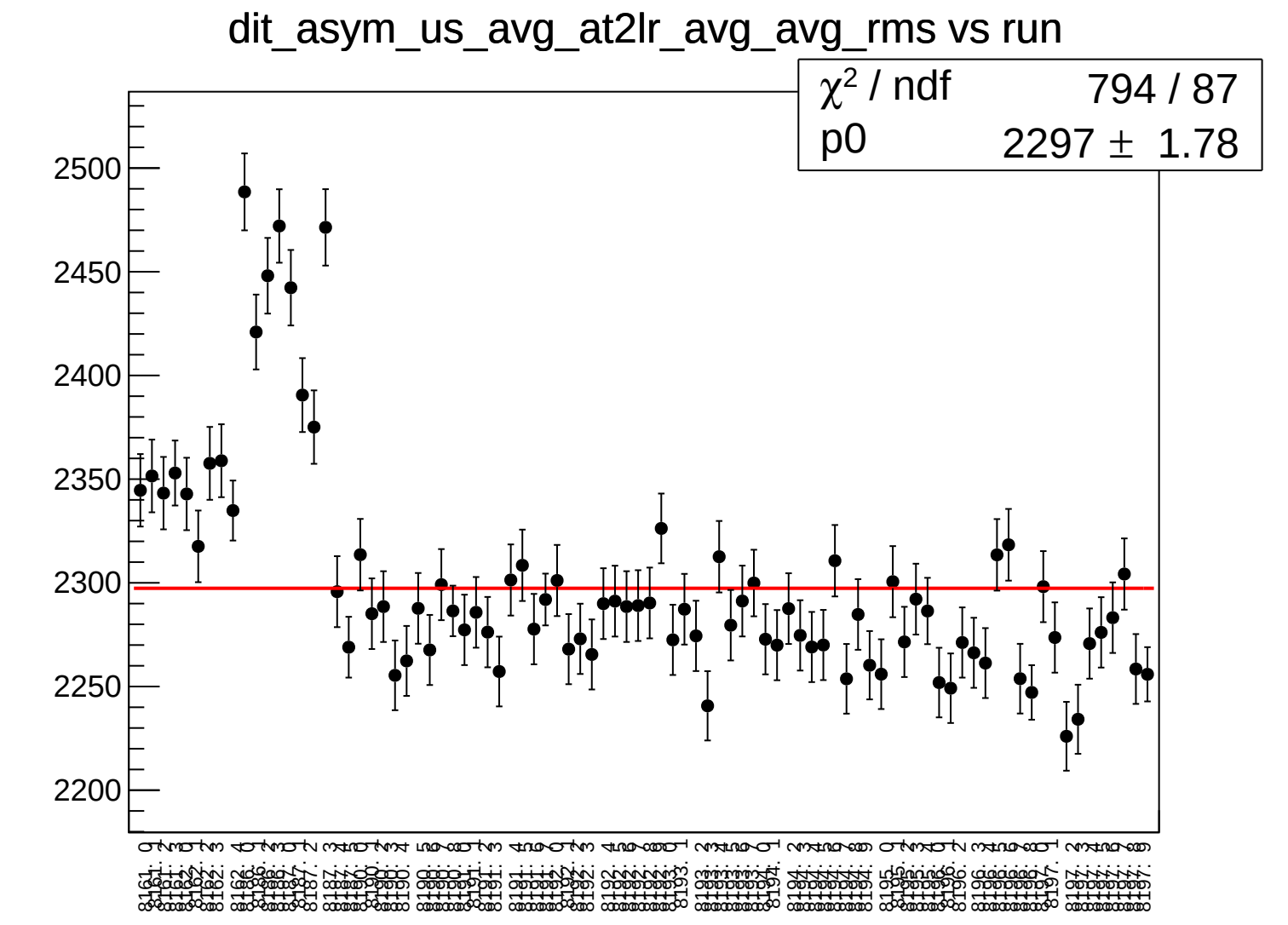

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.95 / 87
p0 3226 ± 1.54e+04
pull
Entries 88
Mean −358.6
Std Dev 0

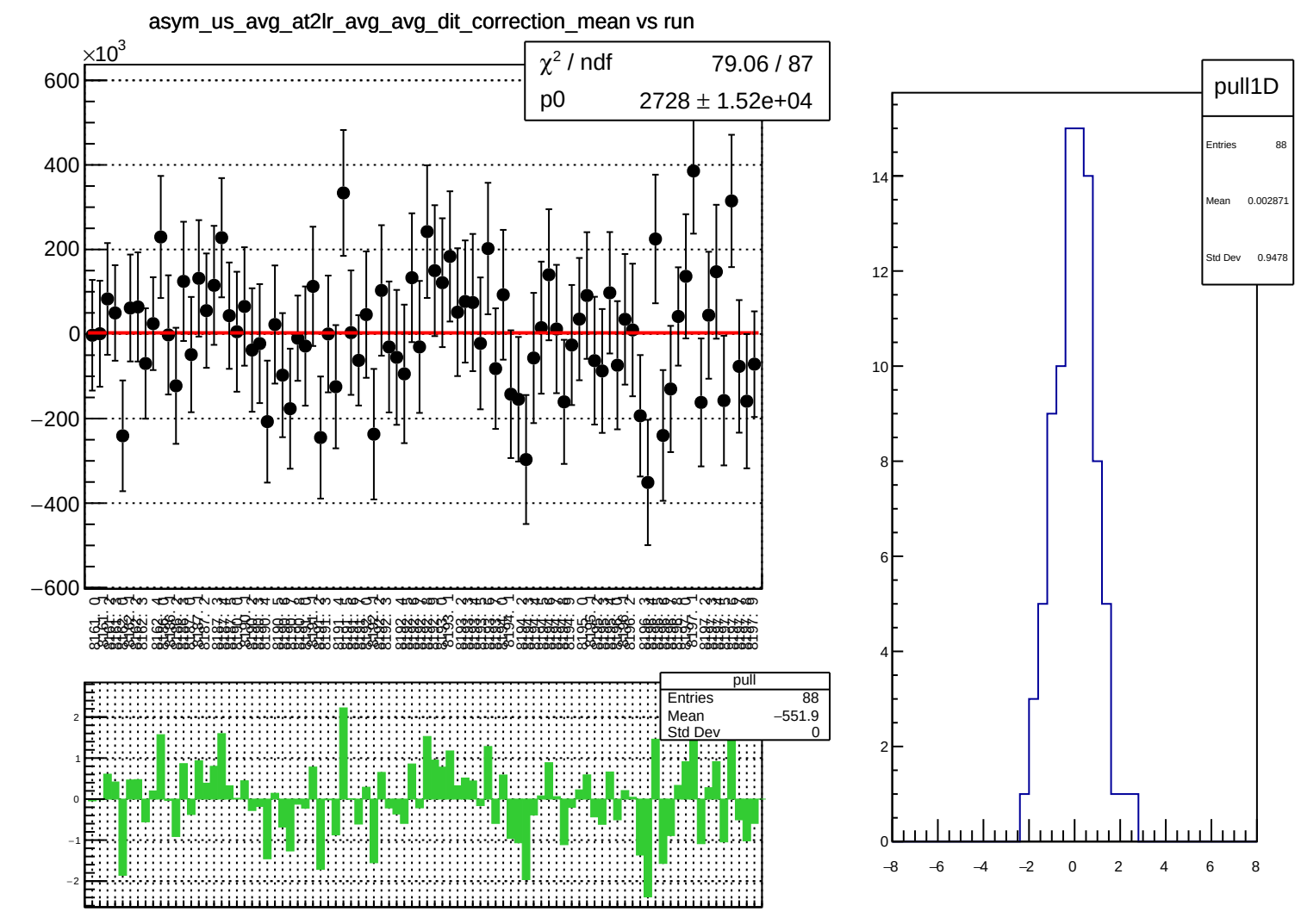

pull1D
Entries 88
Mean 0.004399
Std Dev 0.9472

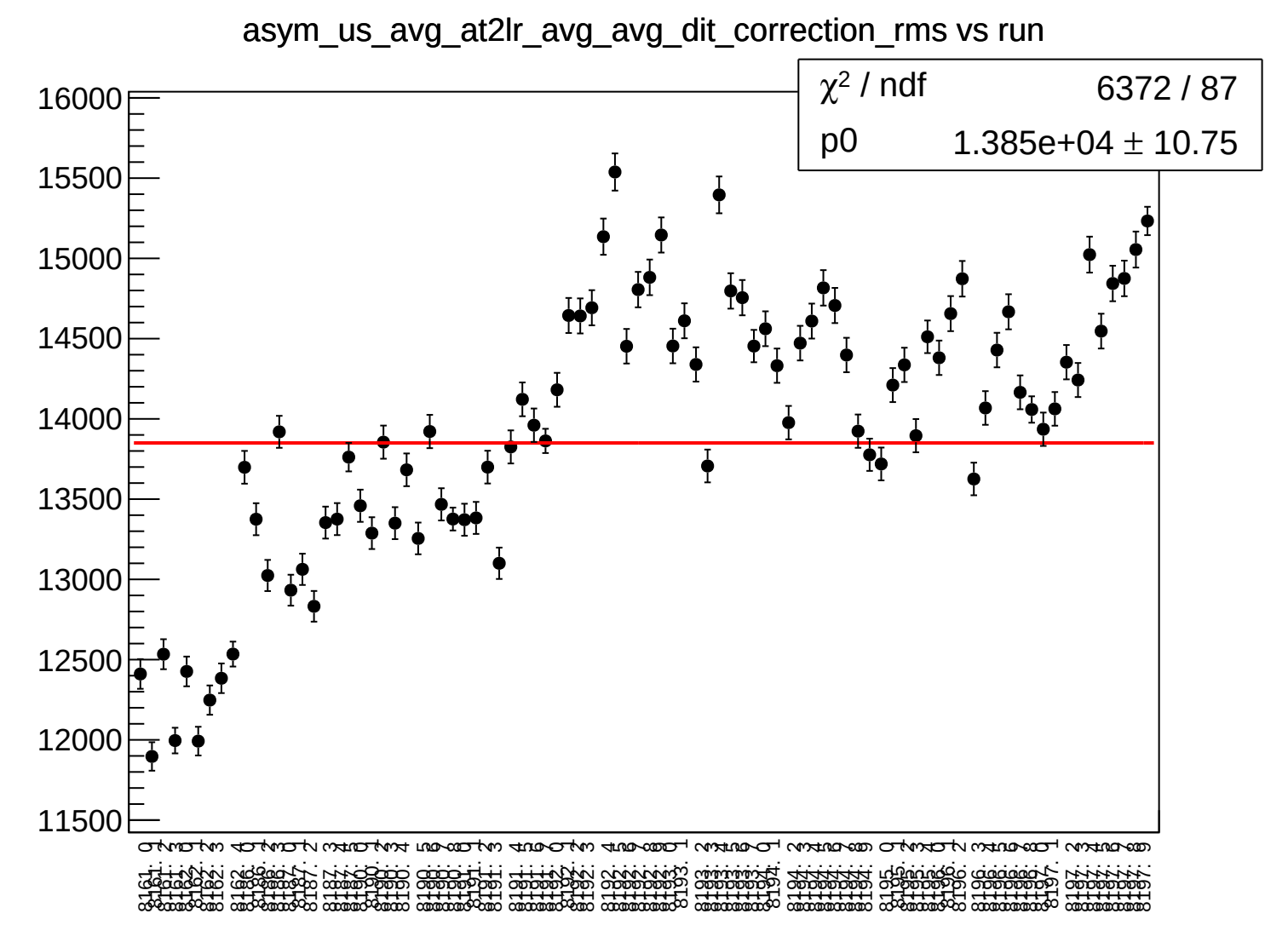

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 7283 / 87
p0 1.403e+04 ± 10.89
16000
15500
15000
14500
14000
13500
13000
12500
12000
11500

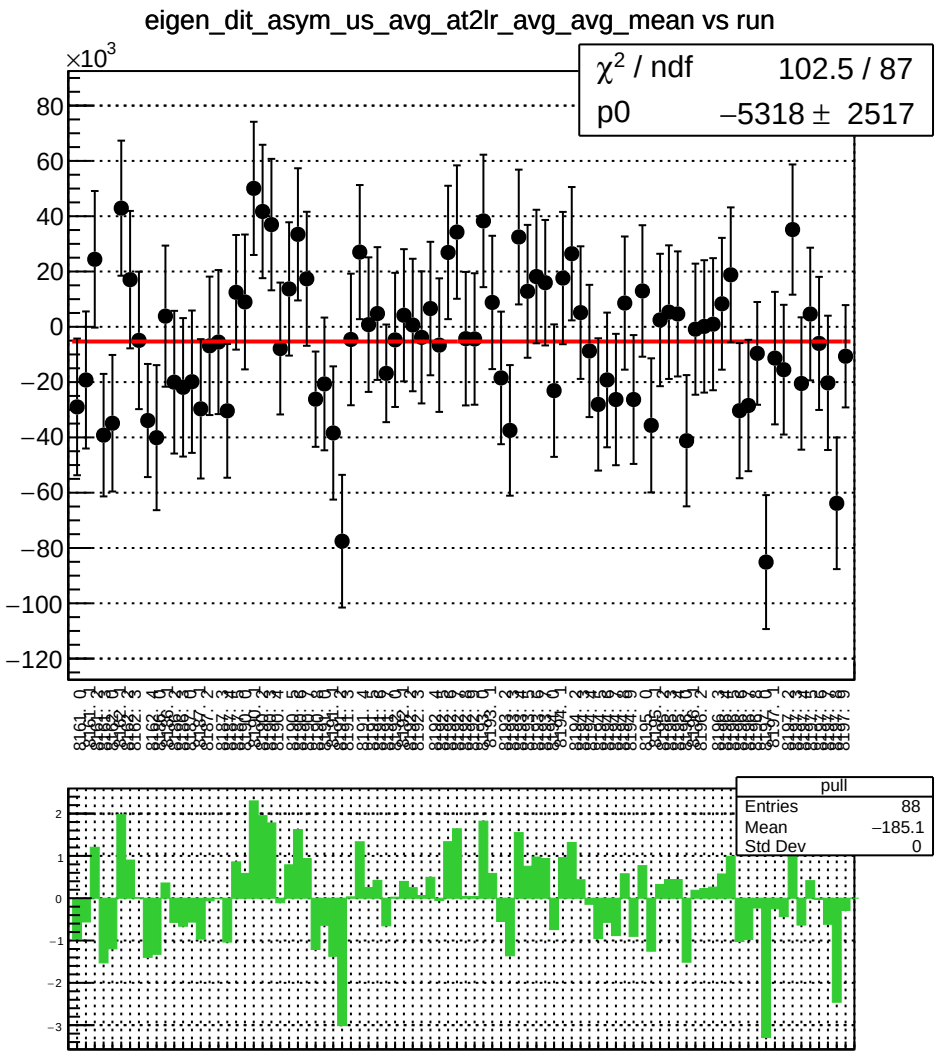

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 102.5 / 87
p0 −5318 ± 2517
pull
Entries 88
Mean −185.1
Std Dev 0

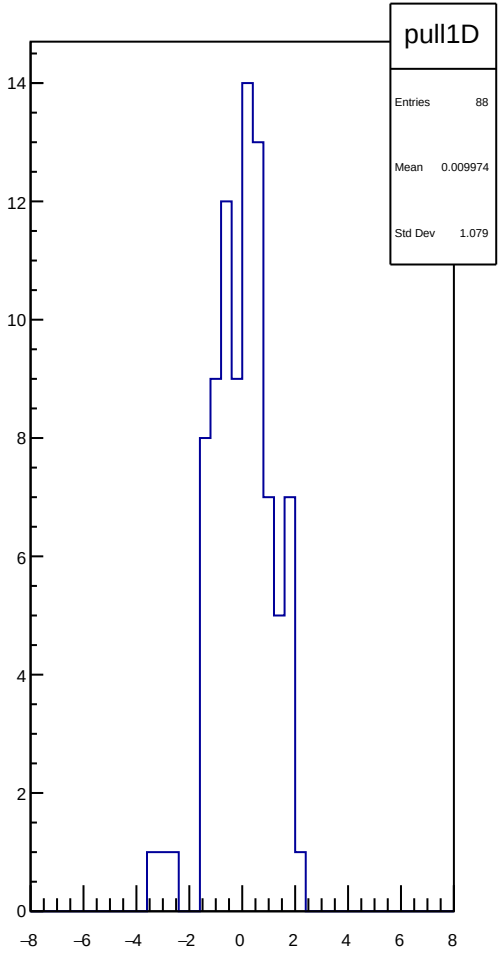

pull1D
Entries 88
Mean 0.009974
Std Dev 1.079

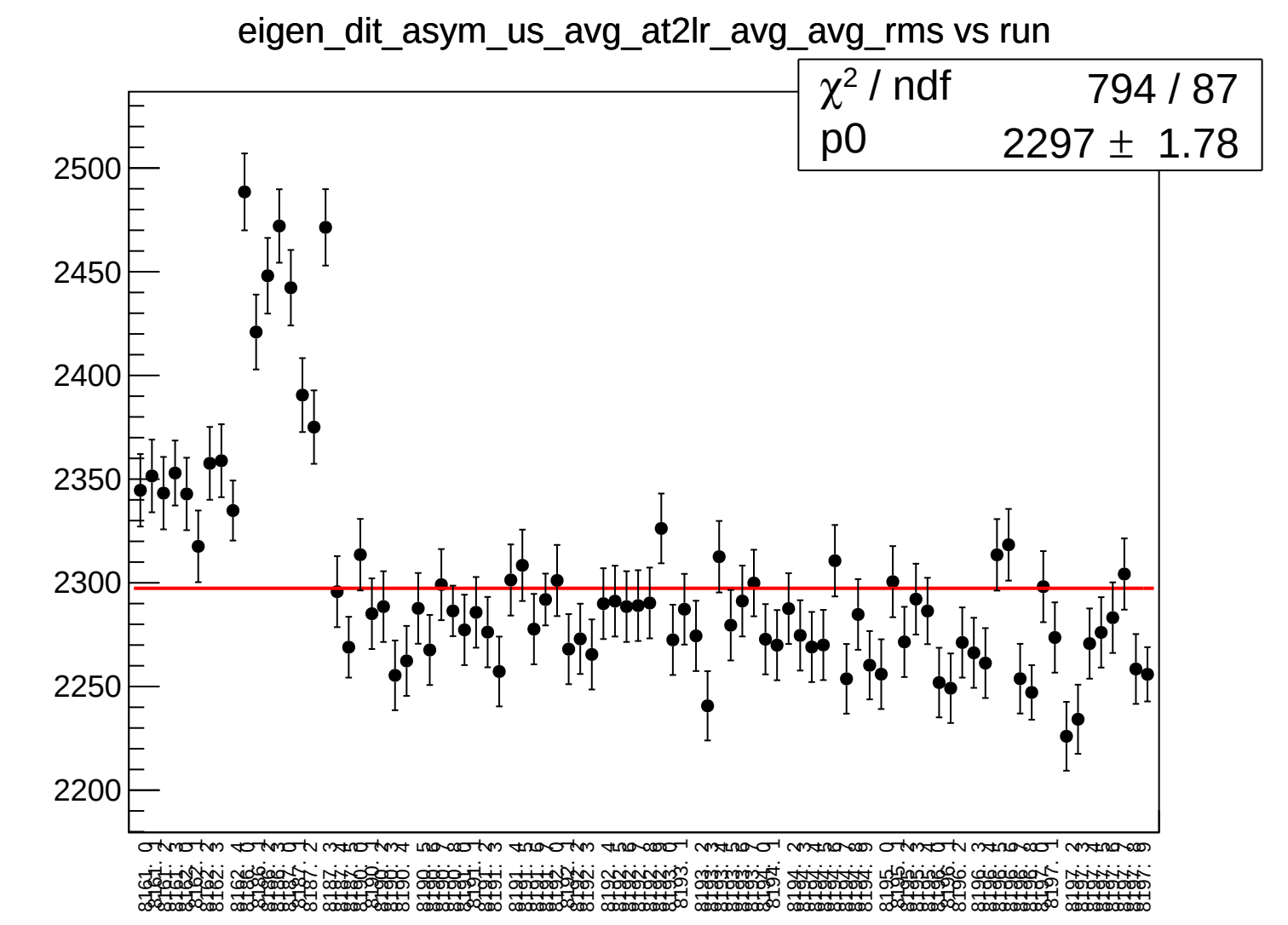

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 794 / 87
p0 2297 ± 1.78
2500
2450
2400
2350
2300
2250
2200

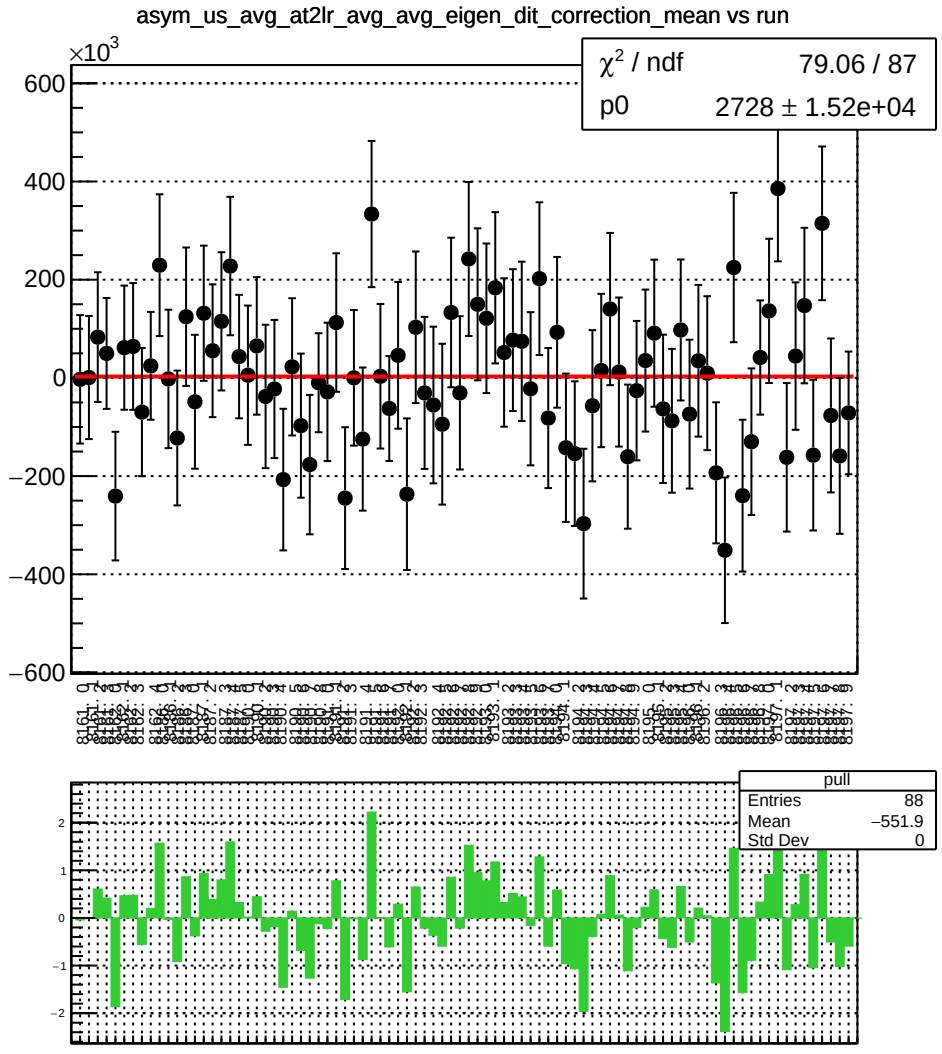

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.06 / 87
p0 2728 ± 1.52e+04
pull
Entries 88
Mean −551.9
Std Dev 0
pull1D
Entries 88
Mean 0.002871
Std Dev 0.9478

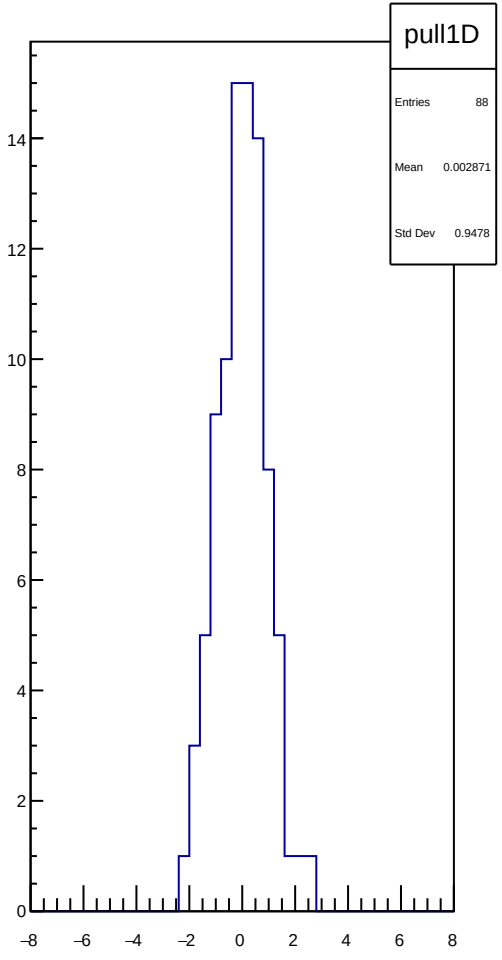

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 6372 / 87
p0 1.385e+04 ± 10.75
16000
15500
15000
14500
14000
13500
13000
12500
12000
11500

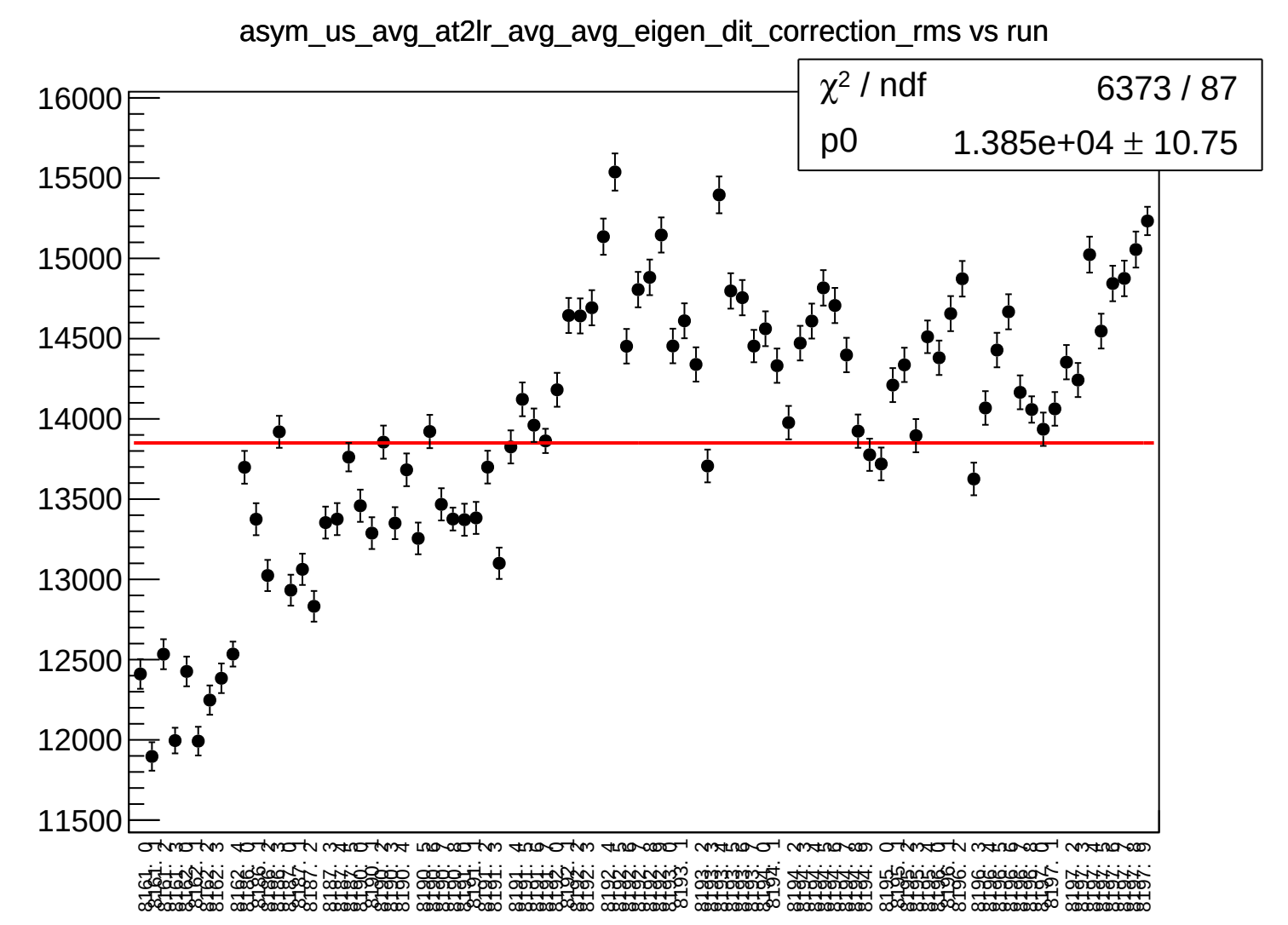

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 102.5 / 87
p0 −5318 ± 2517
pull
Entries 88
Mean −185.1
Std Dev 0

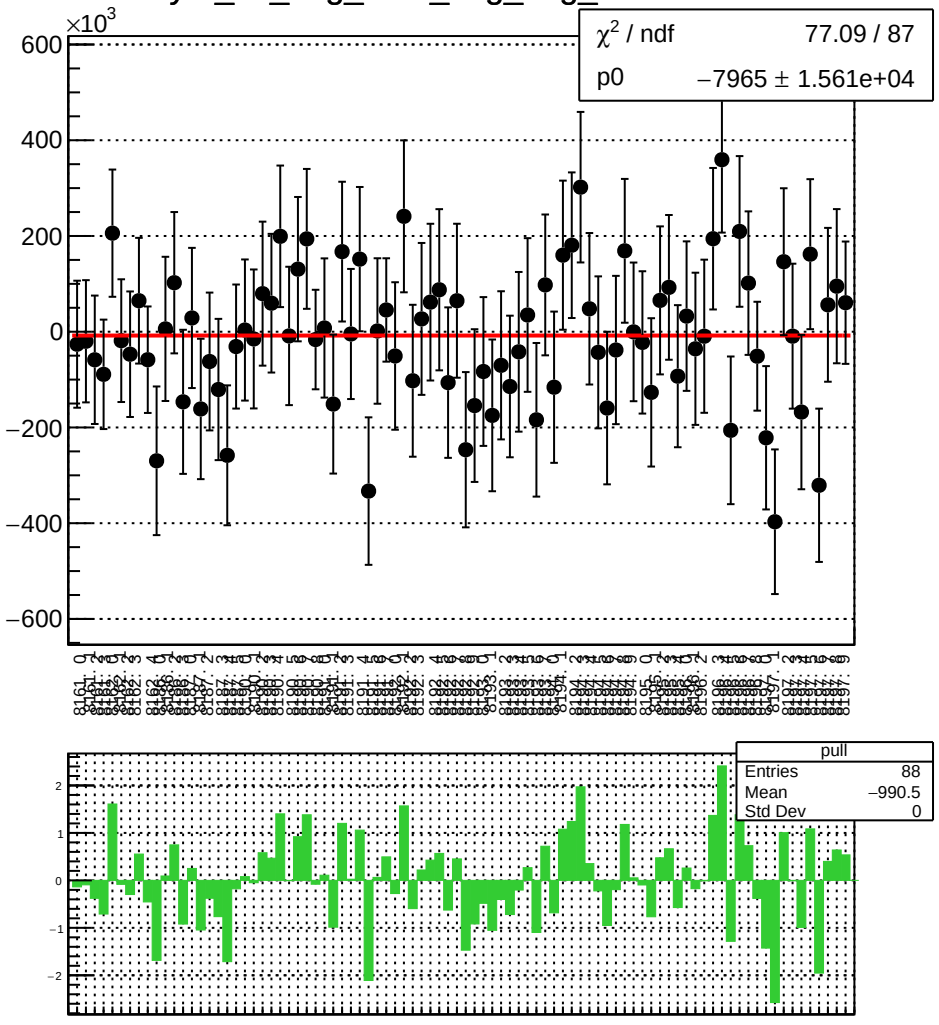

pull1D
Entries 88
Mean 0.009974
Std Dev 1.079

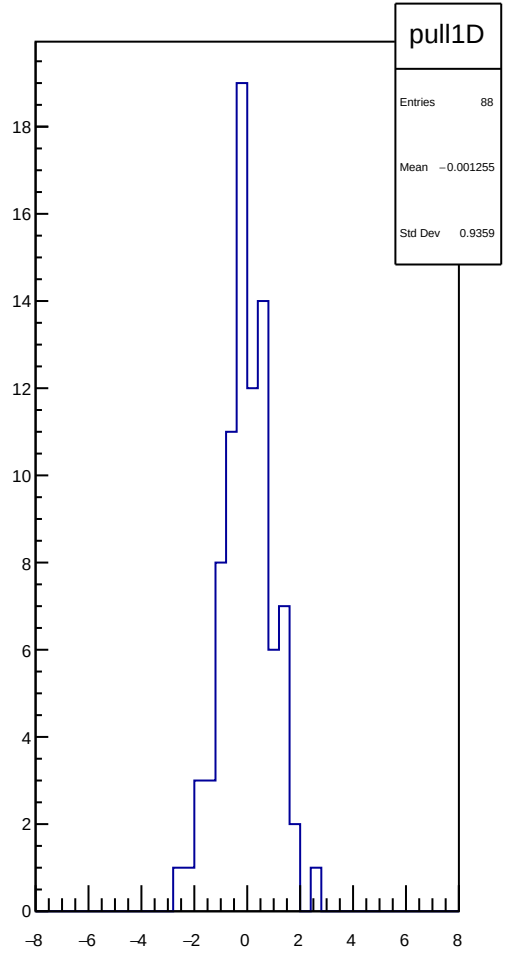

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 794 / 87
p0 2297 ± 1.78
2500
2450
2400
2350
2300
2250
2200

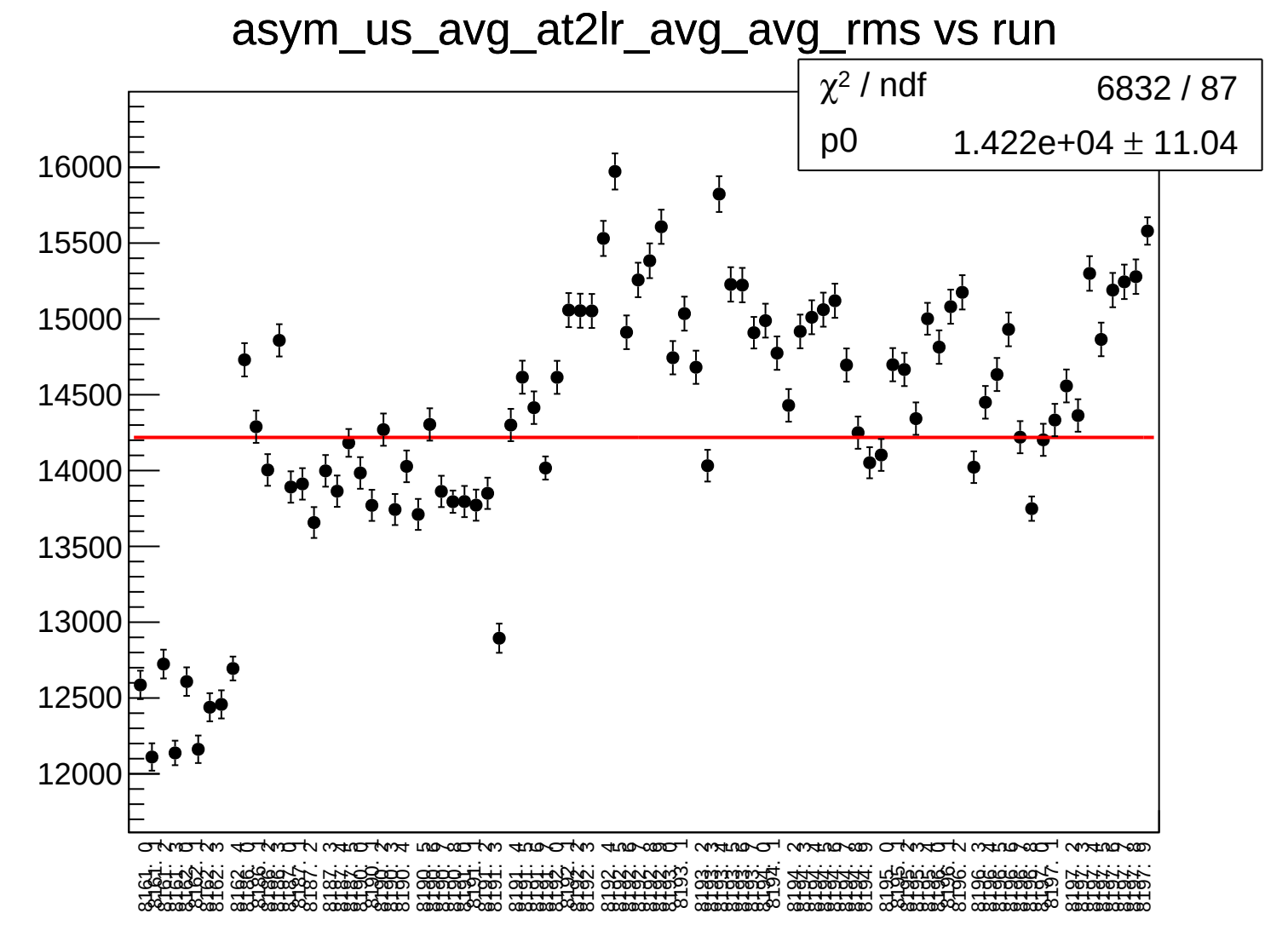

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.06 / 87
p0 2728 ± 1.52e+04
pull
Entries 88
Mean −551.9
Std Dev 0

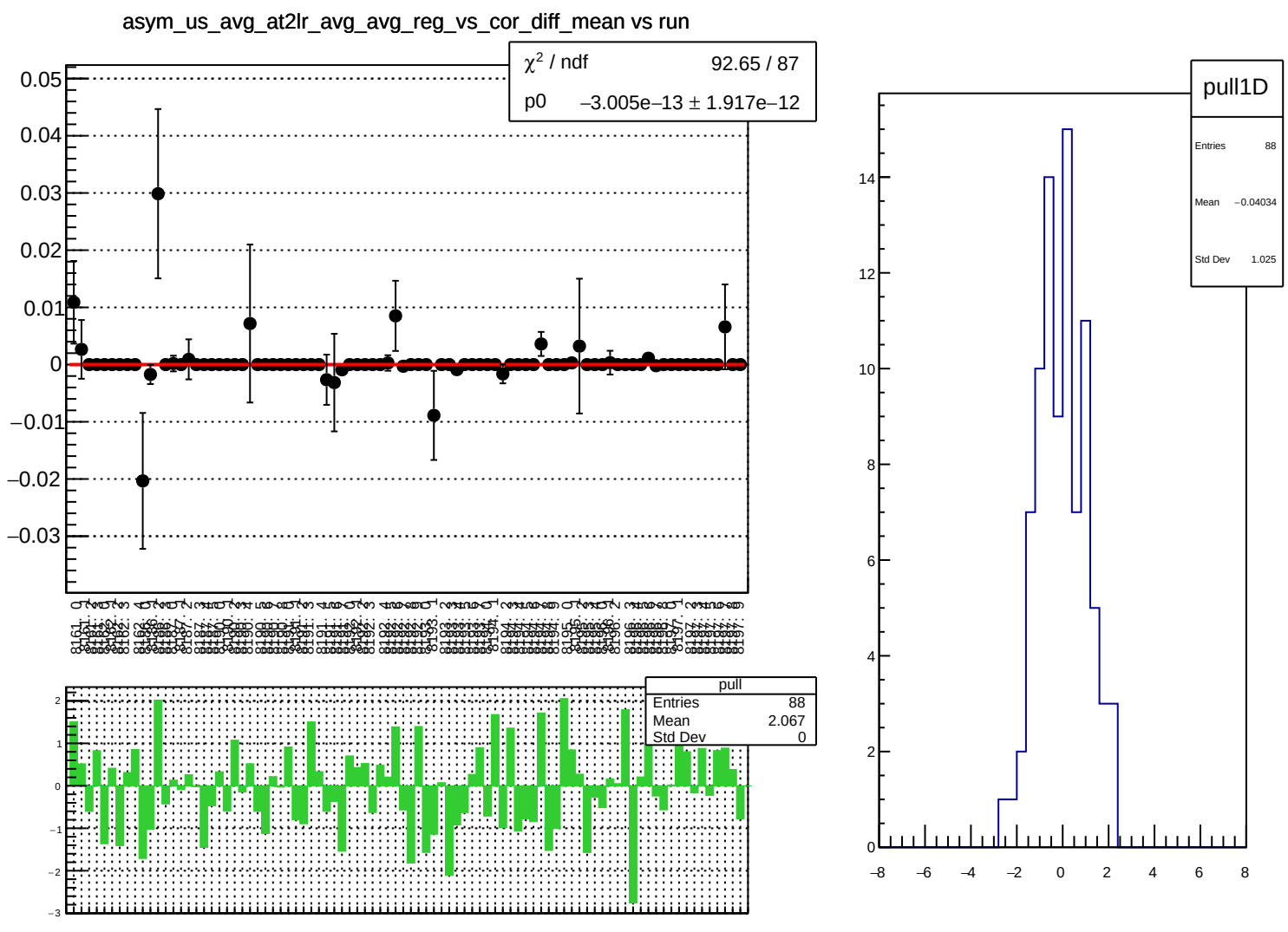

pull1D
Entries 88
Mean 0.002871
Std Dev 0.9478

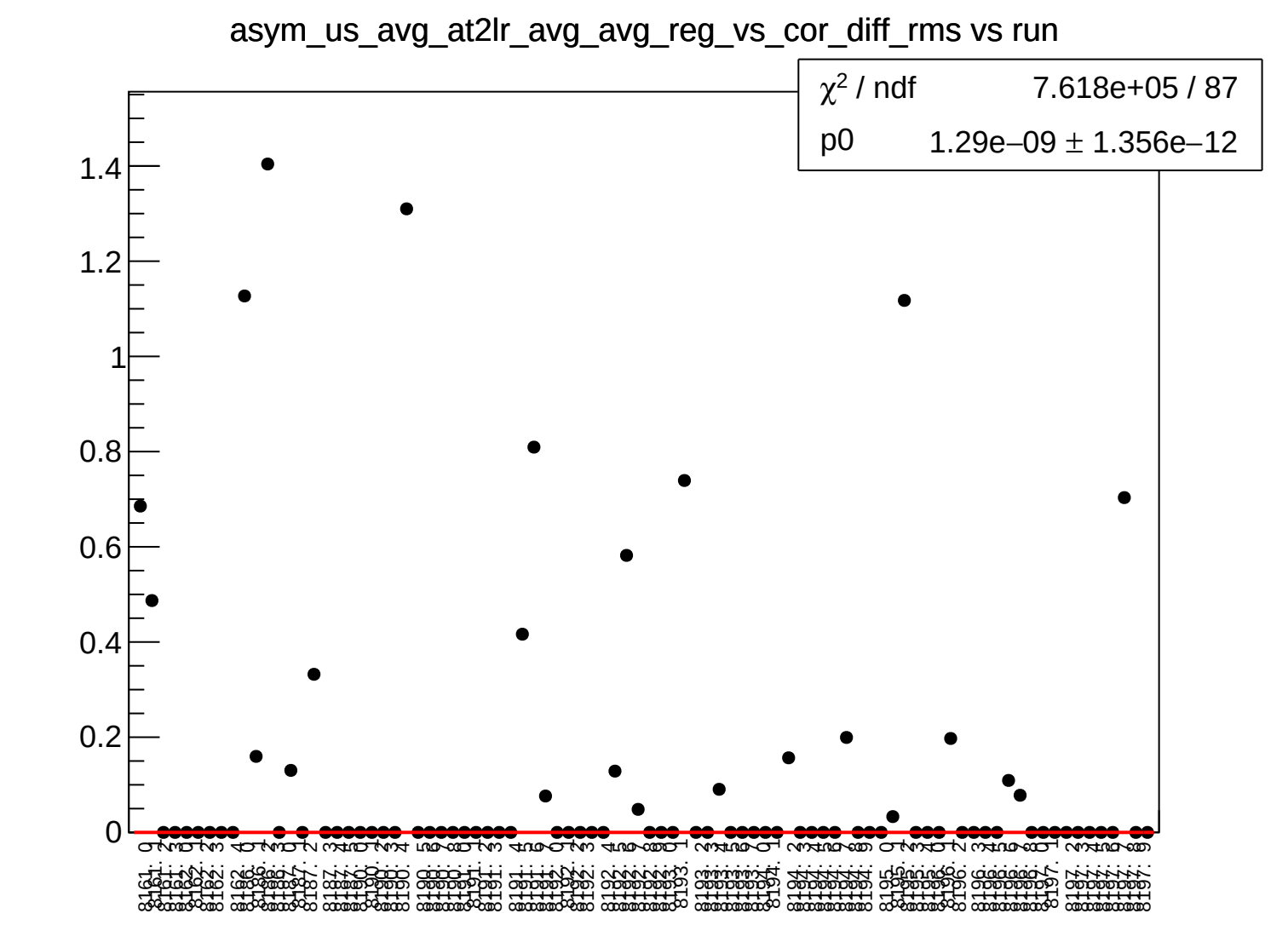

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6373 / 87
p0 1.385e+04 ± 10.75
16000
15500
15000
14500
14000
13500
13000
12500
12000
11500

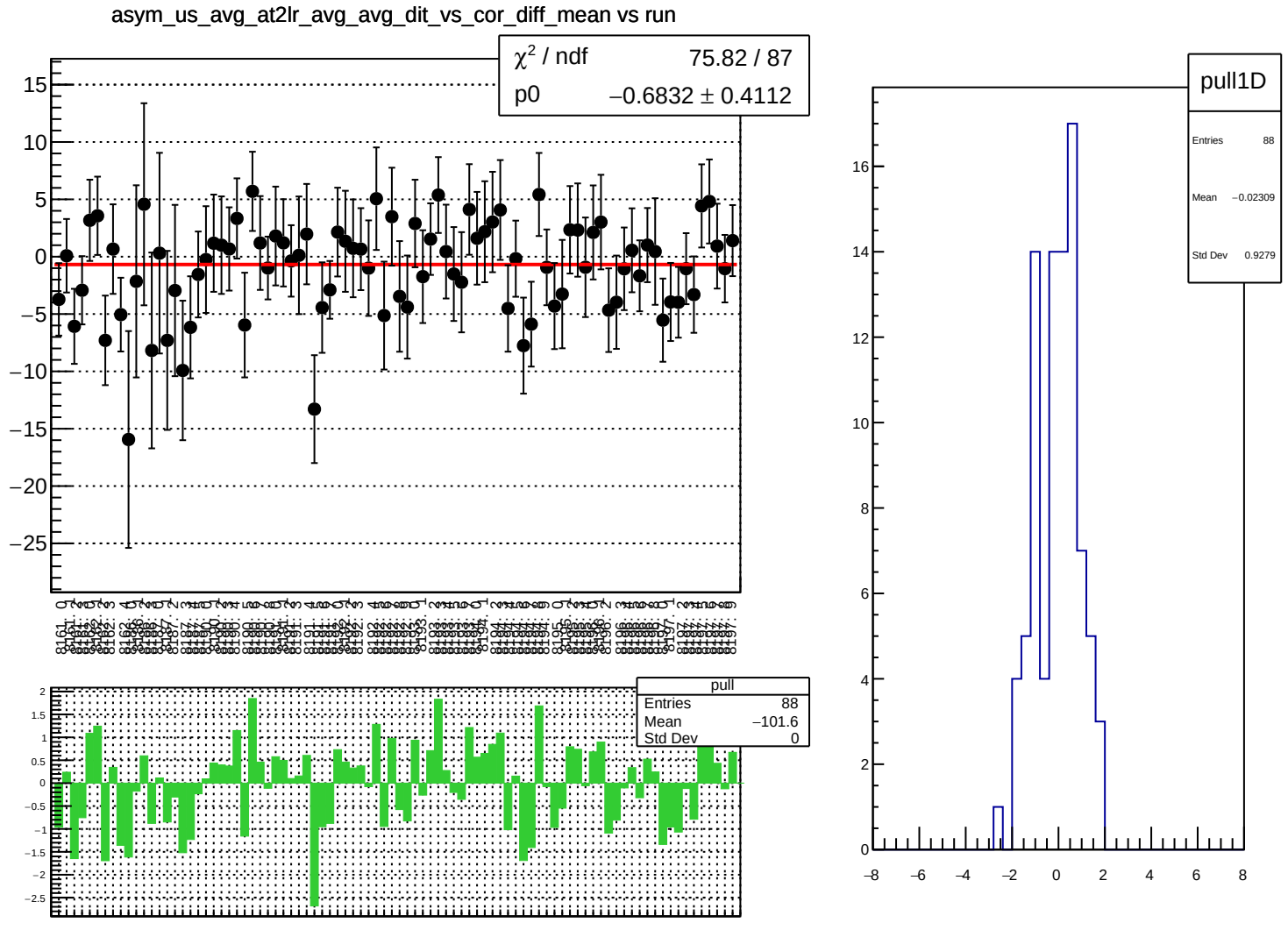

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 77.09 / 87
p0 −7965 ± 1.561e+04
pull
Entries 88
Mean −990.5
Std Dev 0

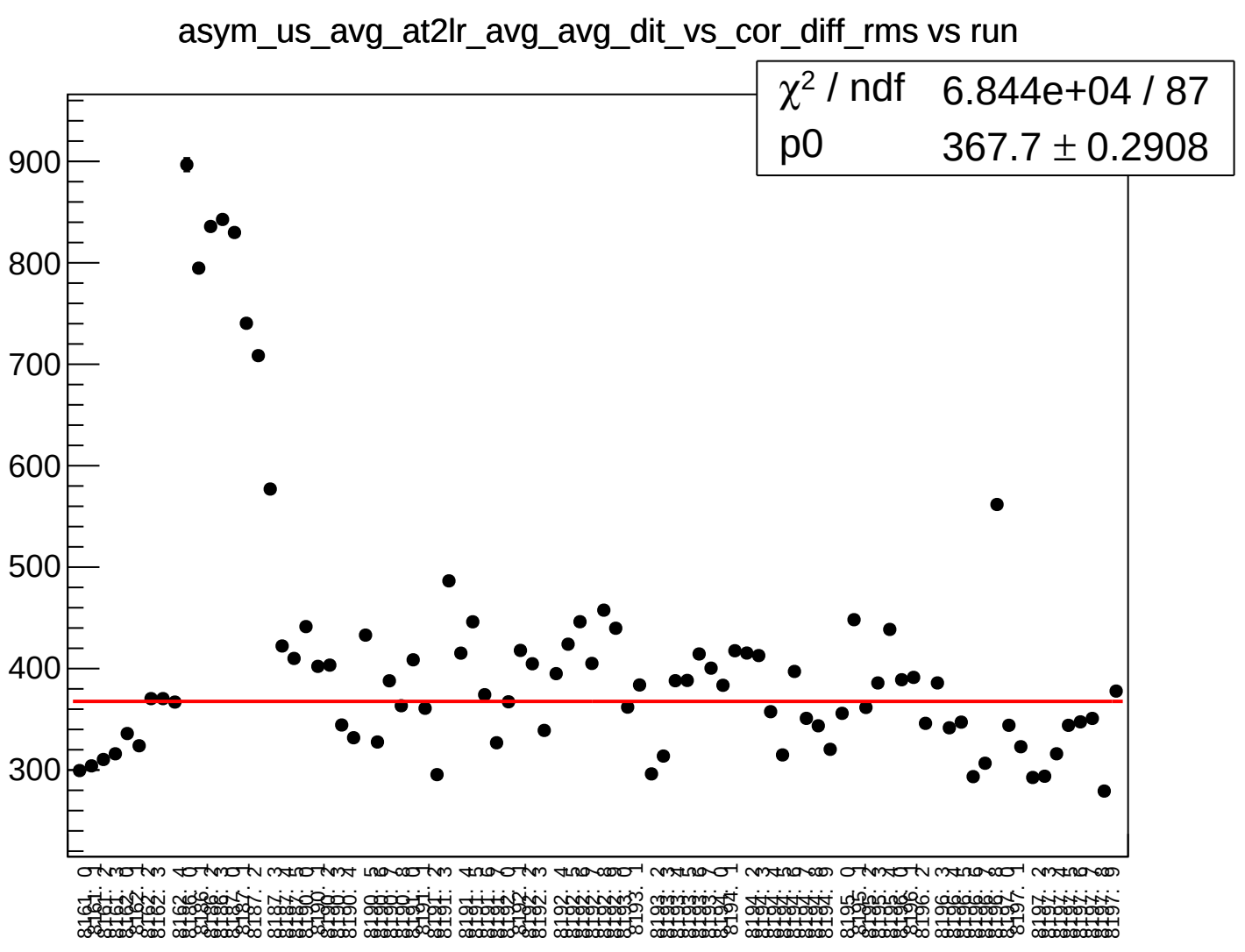

pull1D
Entries 88
Mean −0.001255
Std Dev 0.9359

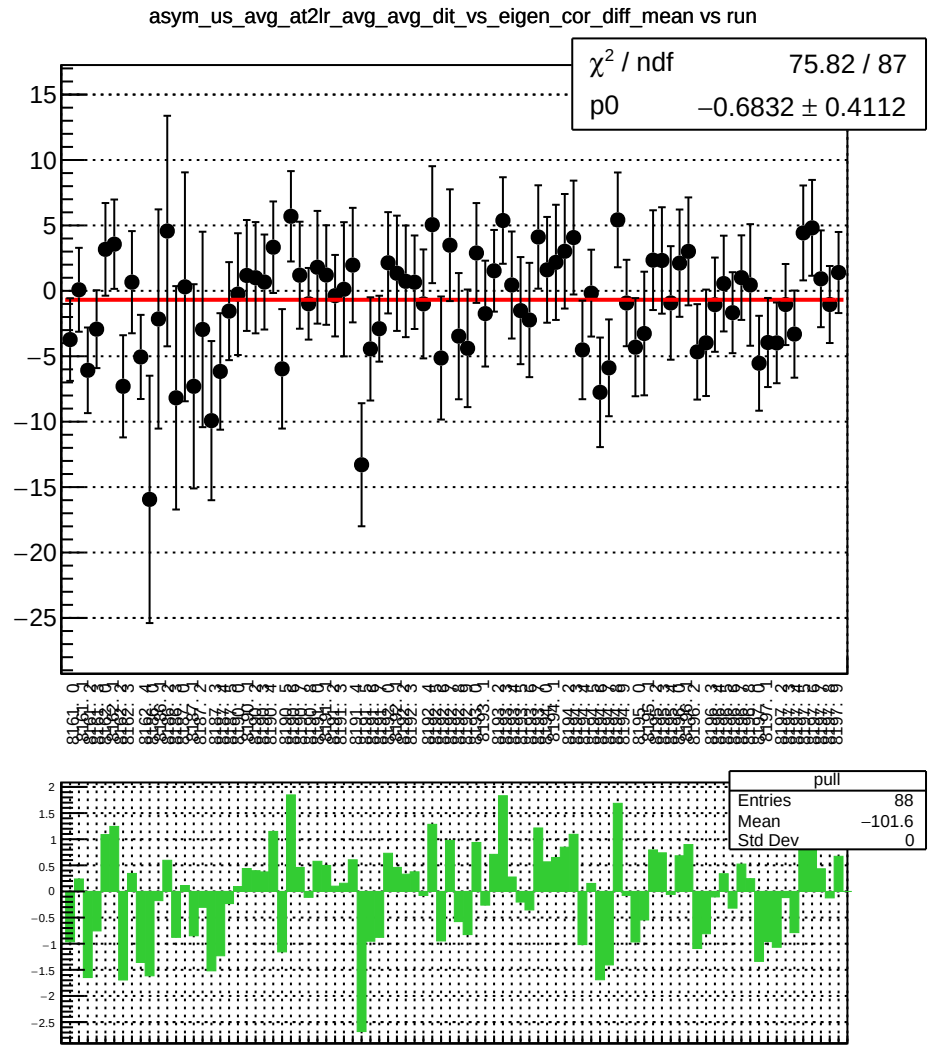

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 6832 / 87
p0 1.422e+04 ± 11.04
16000
15500
15000
14500
14000
13500
13000
12500
12000

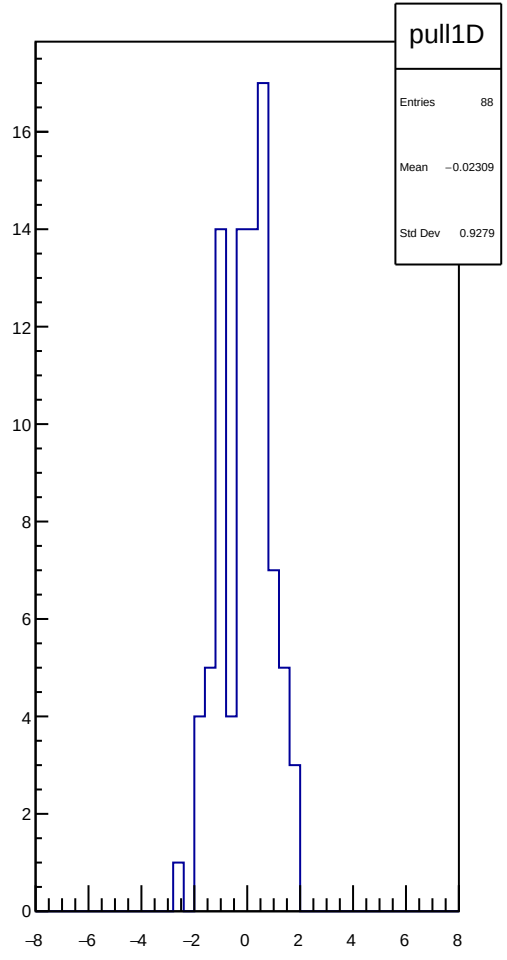

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.65 / 87
p0 −3.005e−13 ± 1.917e−12
pull
Entries 88
Mean 2.067
Std Dev 0
pull1D
Entries 88
Mean −0.04034
Std Dev 1.025

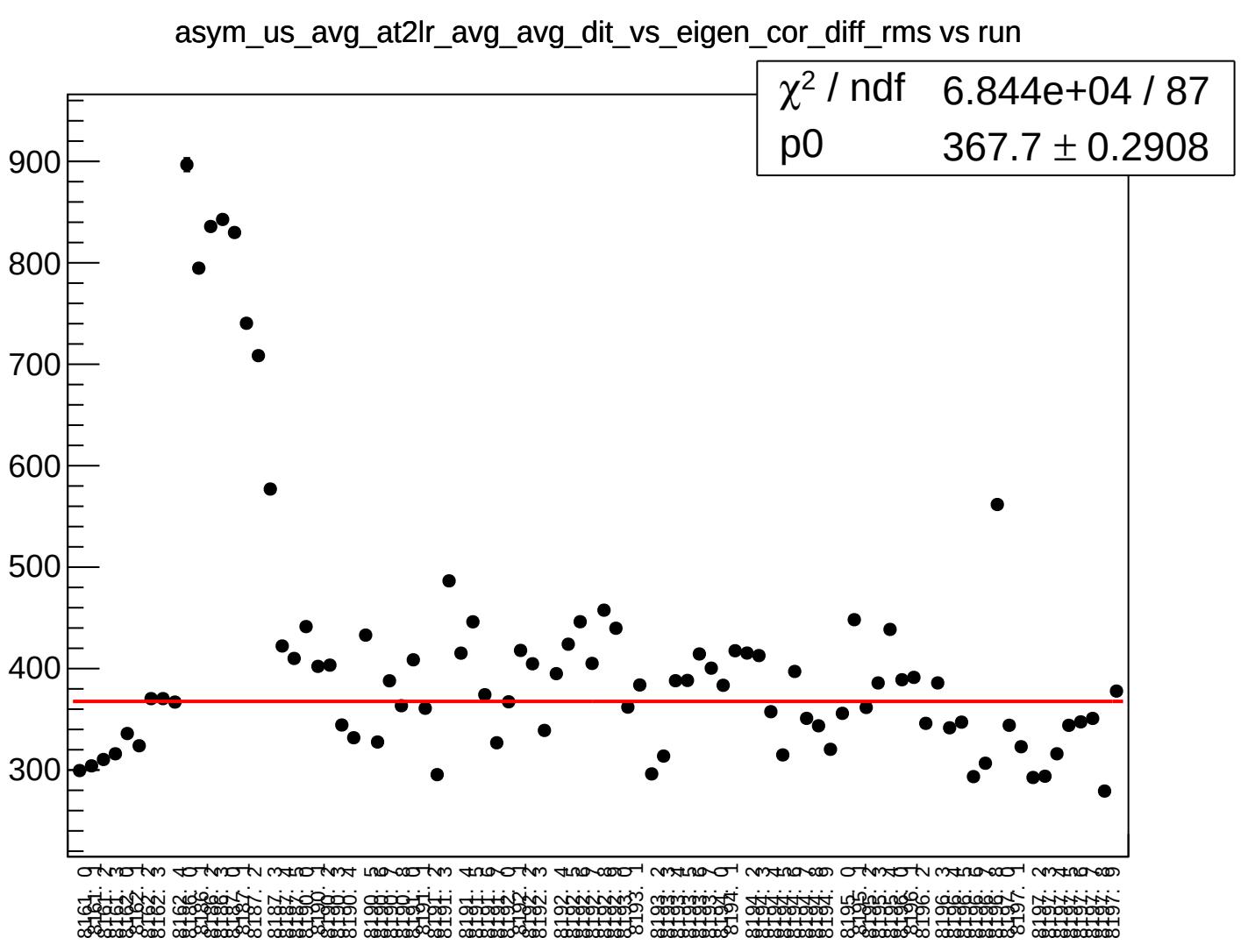

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.618e+05 / 87
p0 1.29e−09 ± 1.356e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

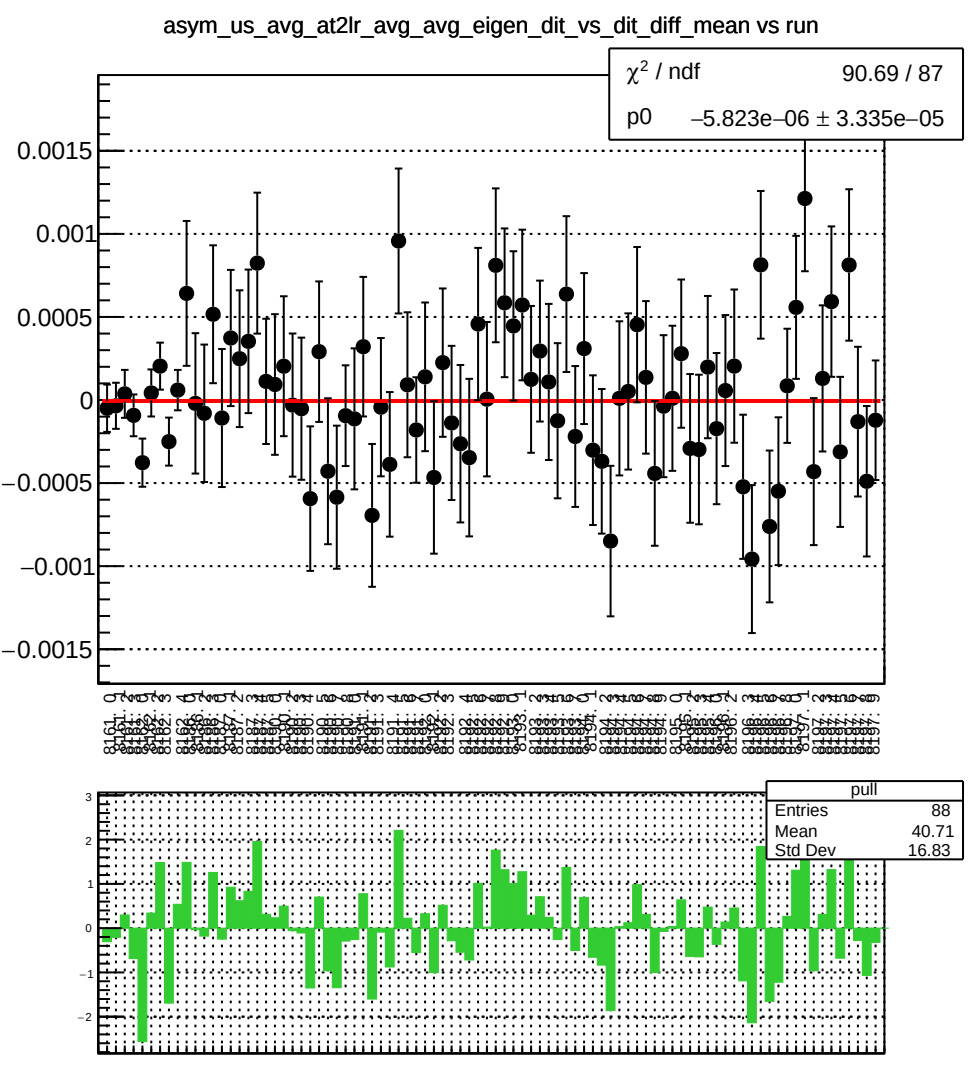

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.82 / 87
p0 −0.6832 ± 0.4112
pull
Entries 88
Mean −101.6
Std Dev 0
pull1D
Entries 88
Mean −0.02309
Std Dev 0.9279

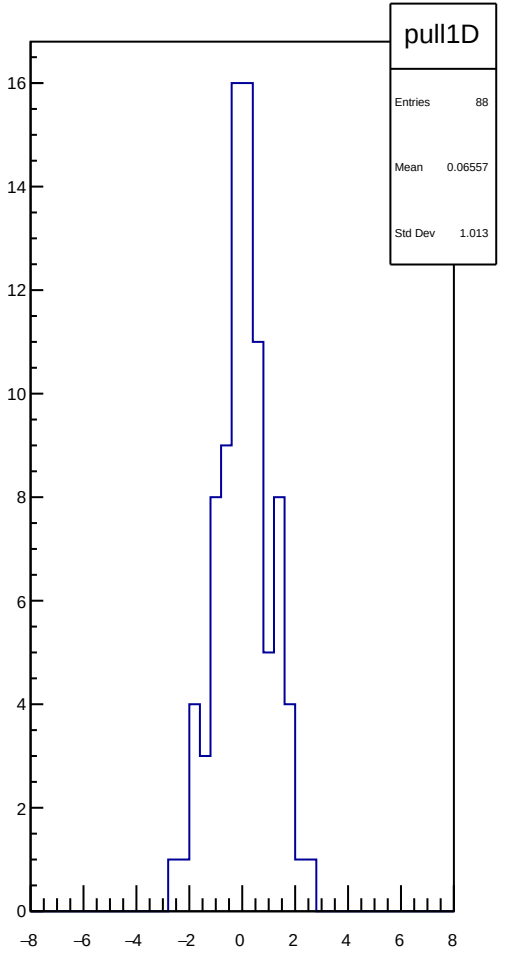

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.844e+04 / 87
p0 367.7 ± 0.2908
900
800
700
600
500
400
300

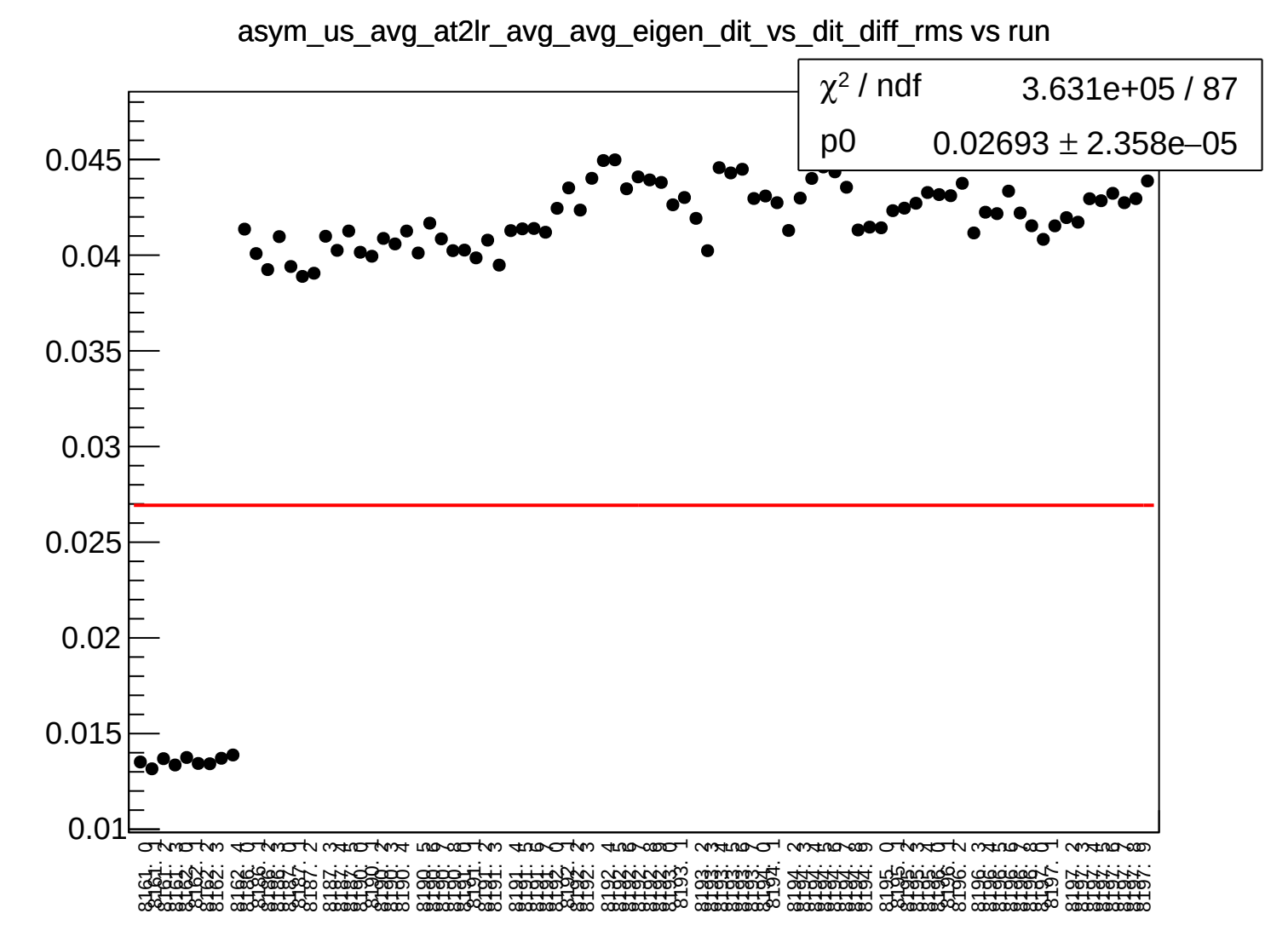

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.82 / 87
p0 −0.6832 ± 0.4112
pull
Entries 88
Mean −101.6
Std Dev 0

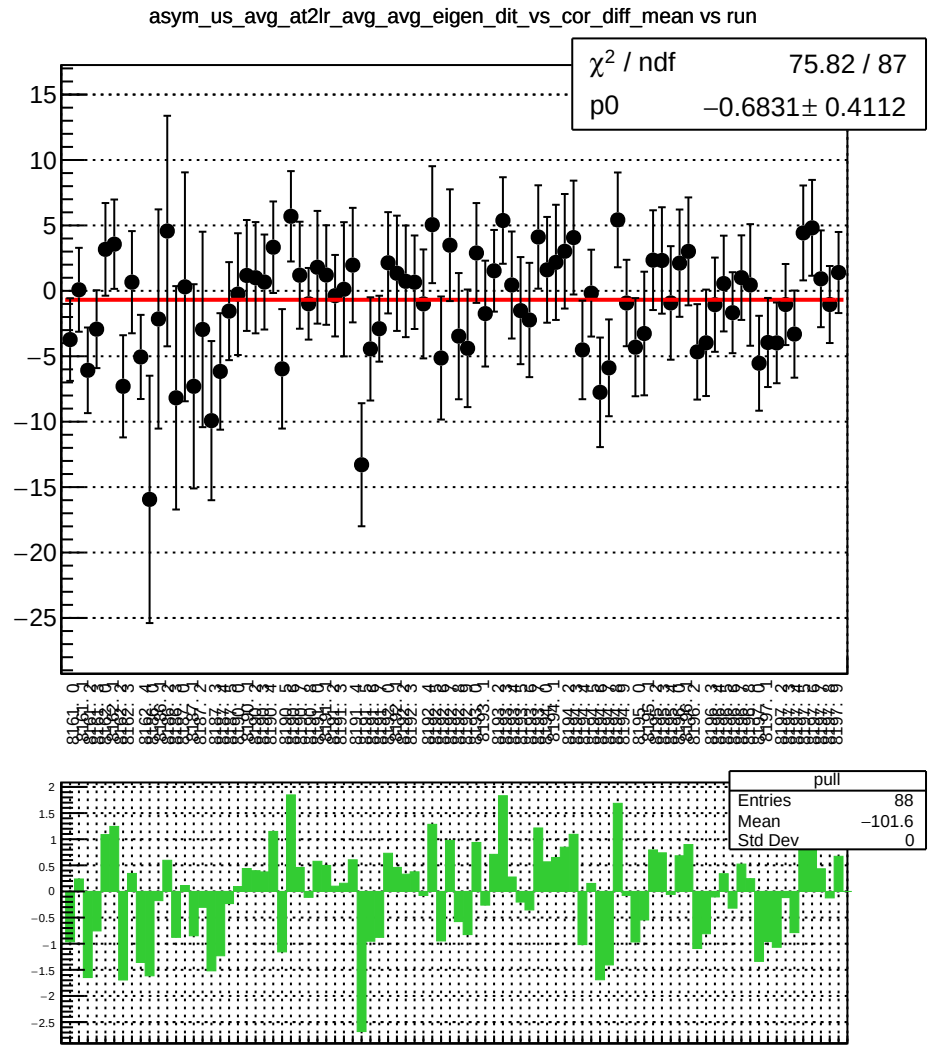

pull1D
Entries 88
Mean −0.02309
Std Dev 0.9279

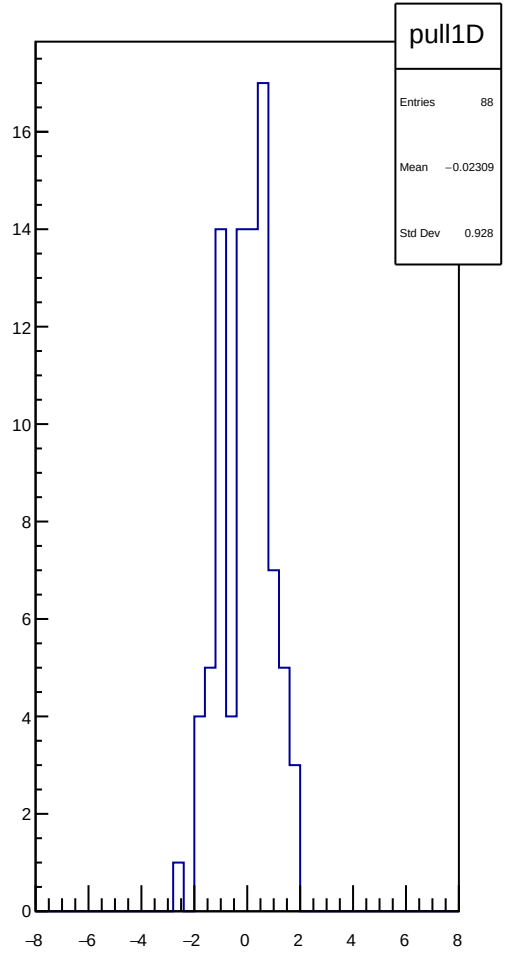

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.844e+04 / 87
p0 367.7 ± 0.2908
900
800
700
600
500
400
300

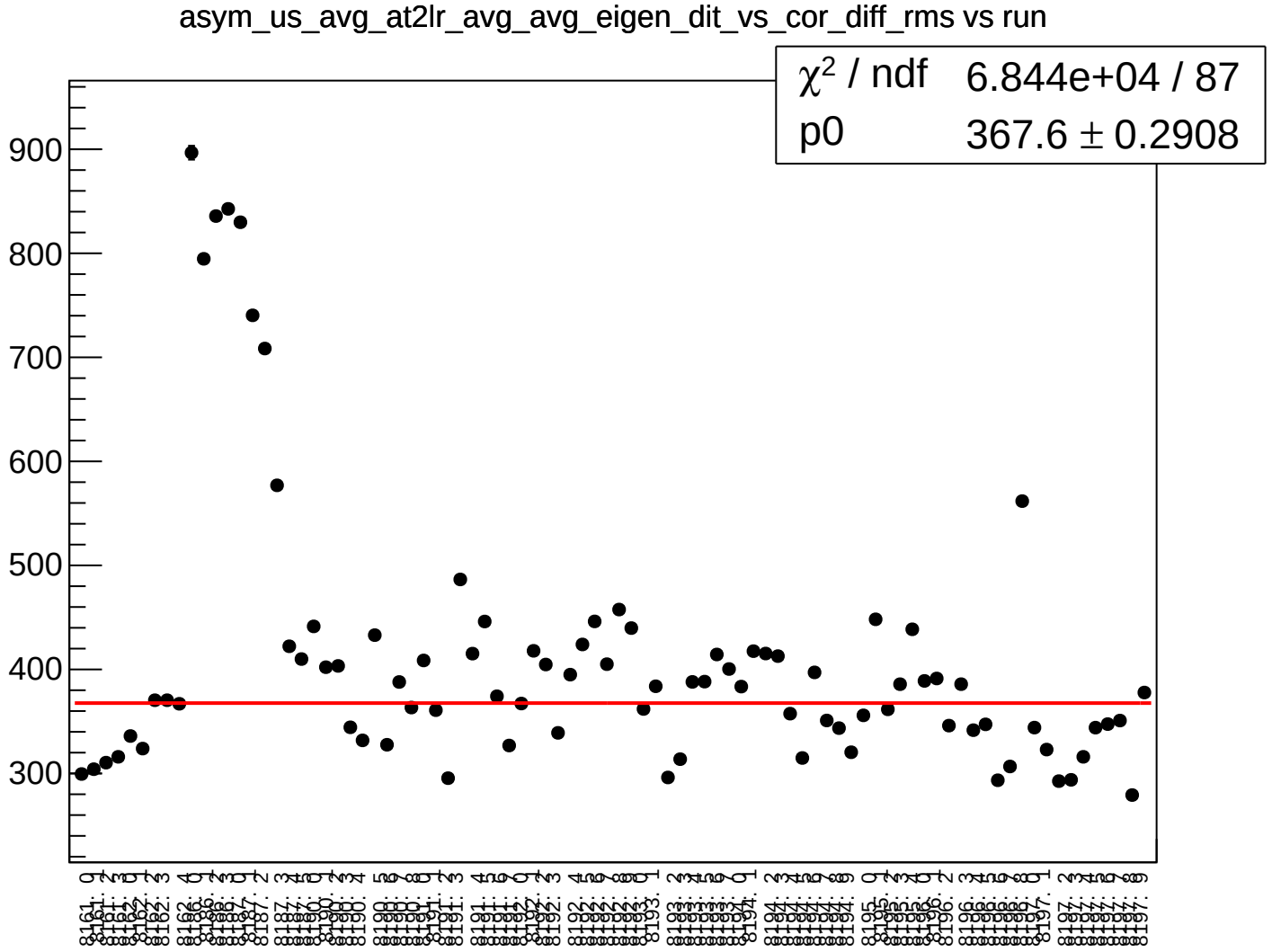

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.69 / 87
p0 −5.823e−06 ± 3.335e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 40.71
Std Dev 16.83
3
2
1
0
−1
−2

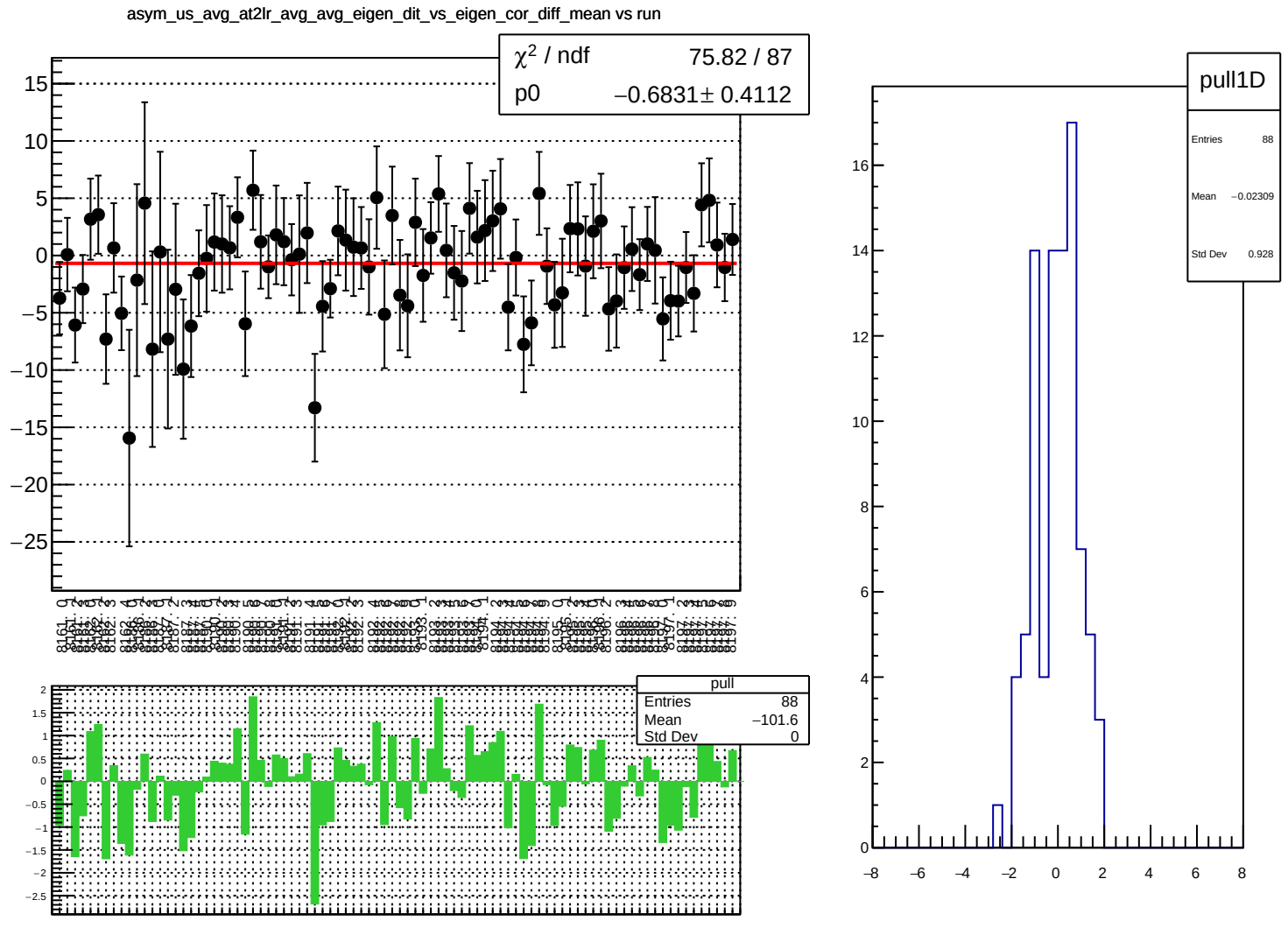

pull1D
Entries 88
Mean 0.06557
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

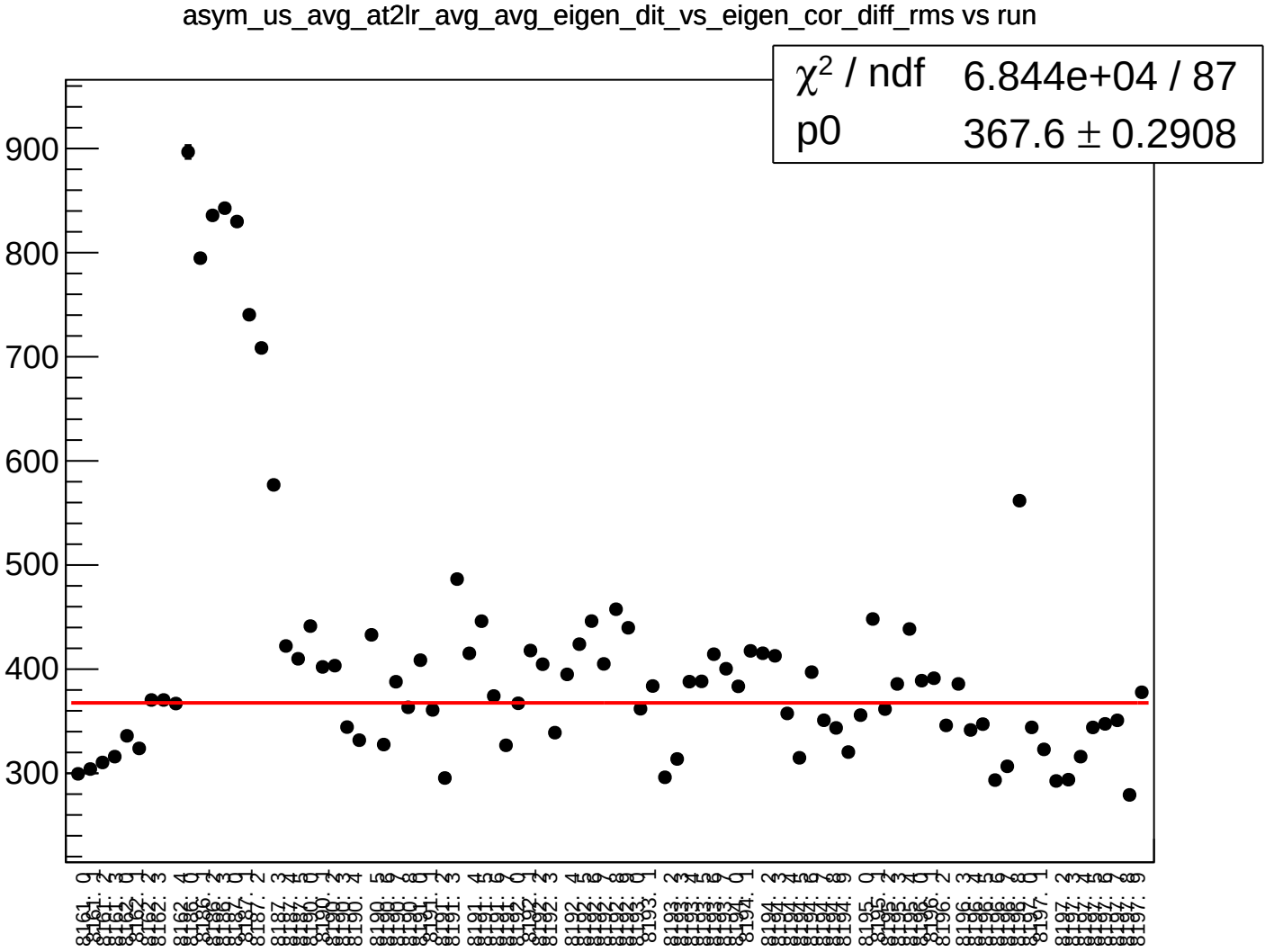

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.631e+05 / 87
p0 0.02693 ± 2.358e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

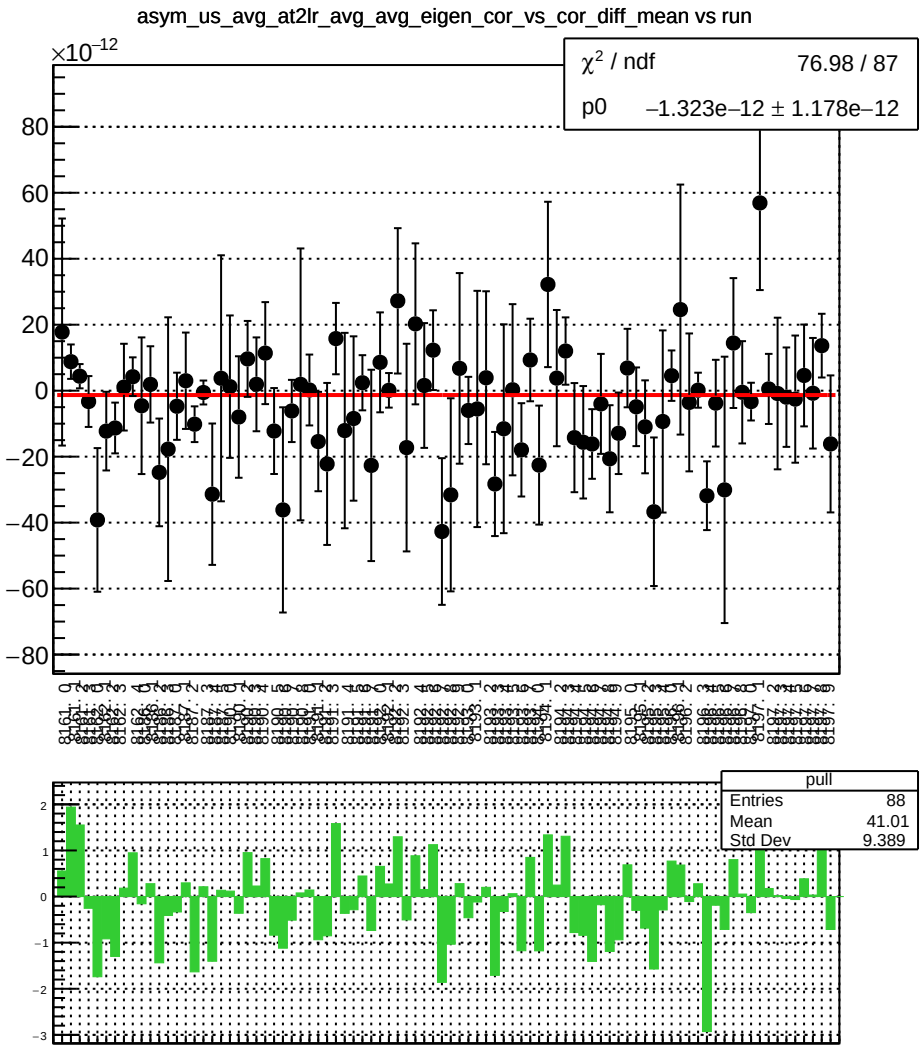

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.82 / 87
p0 −0.6831± 0.4112
pull
Entries 88
Mean −101.6
Std Dev 0

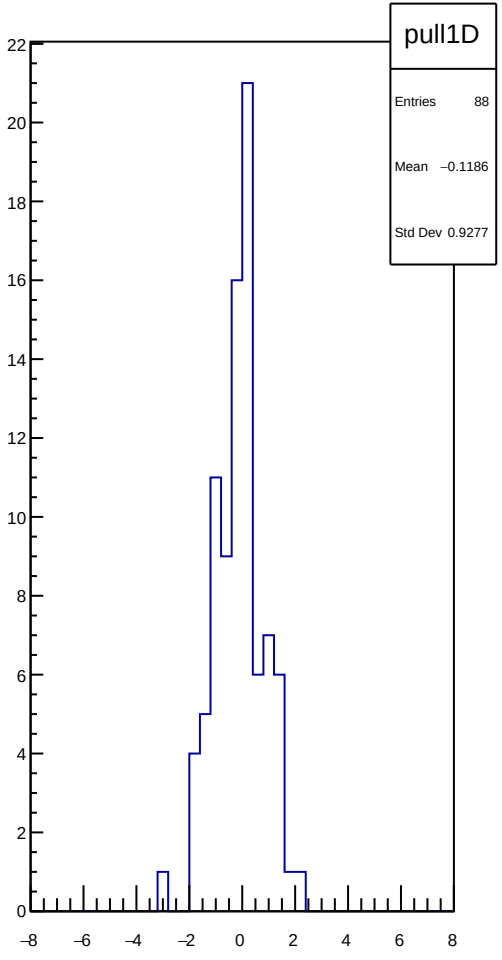

pull1D
Entries 88
Mean −0.02309
Std Dev 0.928

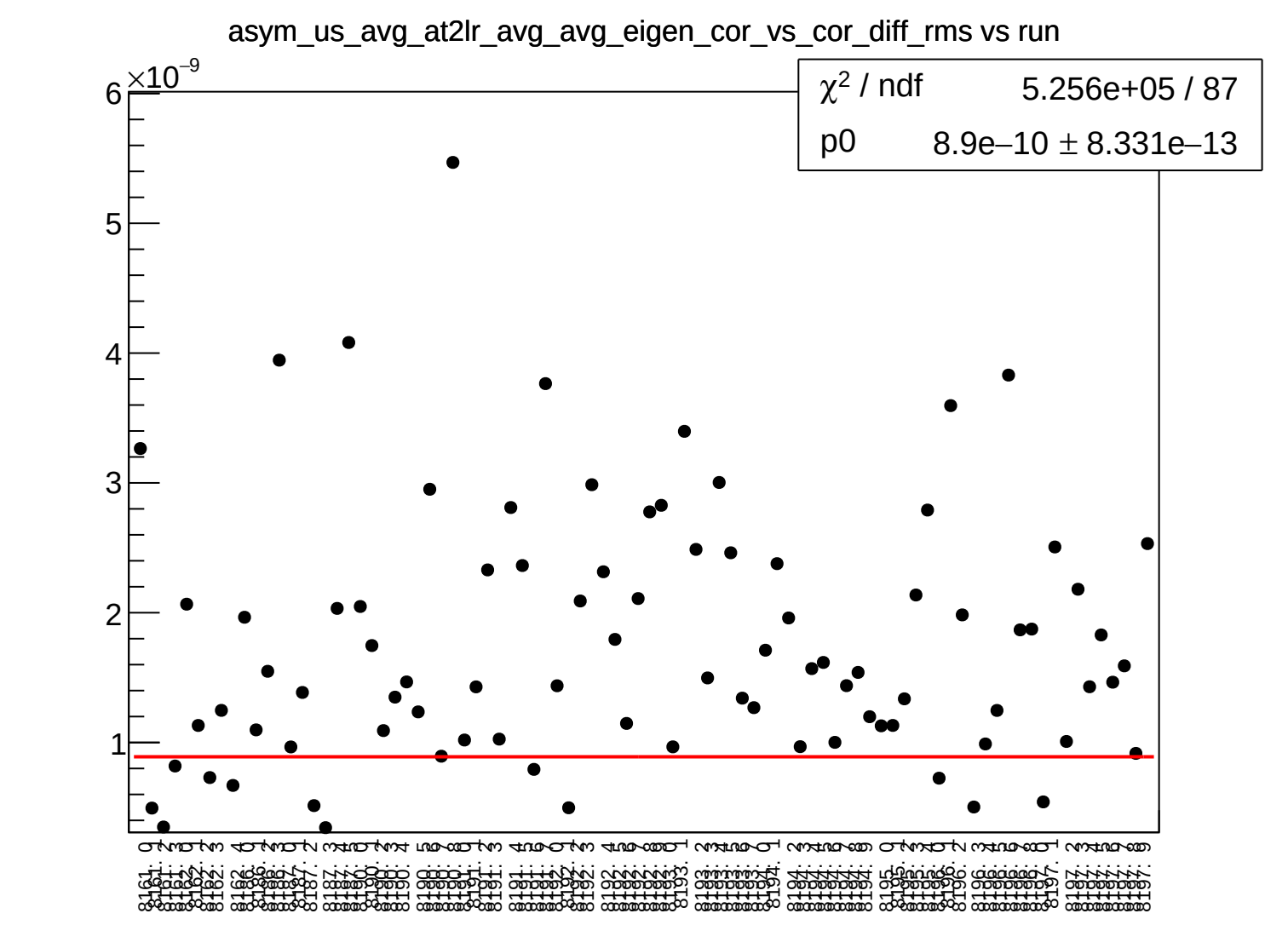

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.844e+04 / 87
p0 367.6 ± 0.2908
900
800
700
600
500
400
300

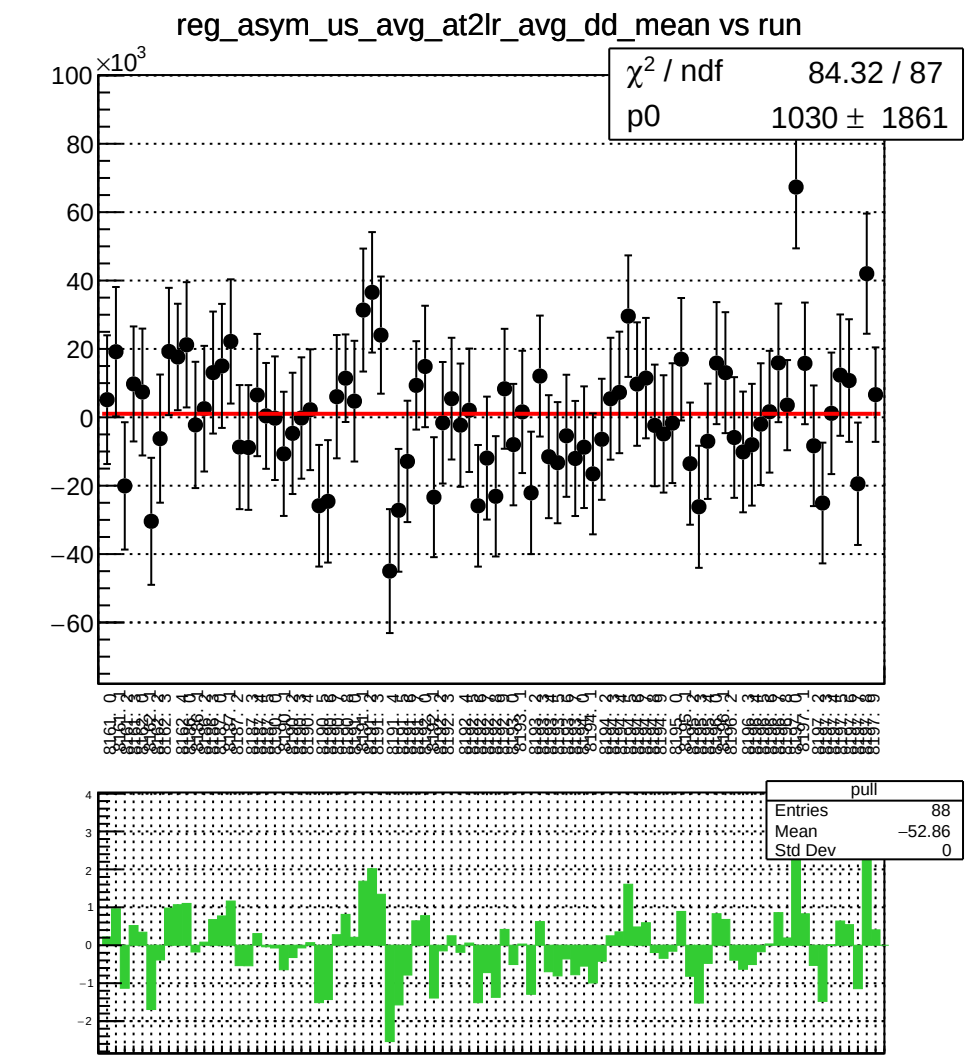

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.82 / 87
p0 −0.6831± 0.4112
pull
Entries 88
Mean −101.6
Std Dev 0
pull1D
Entries 88
Mean −0.02309
Std Dev 0.928

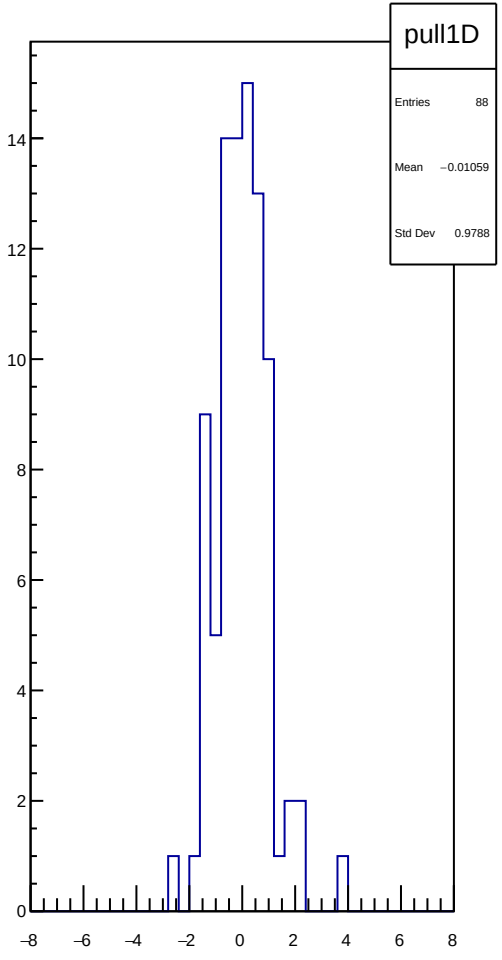

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.844e+04 / 87
p0 367.6 ± 0.2908
900
800
700
600
500
400
300

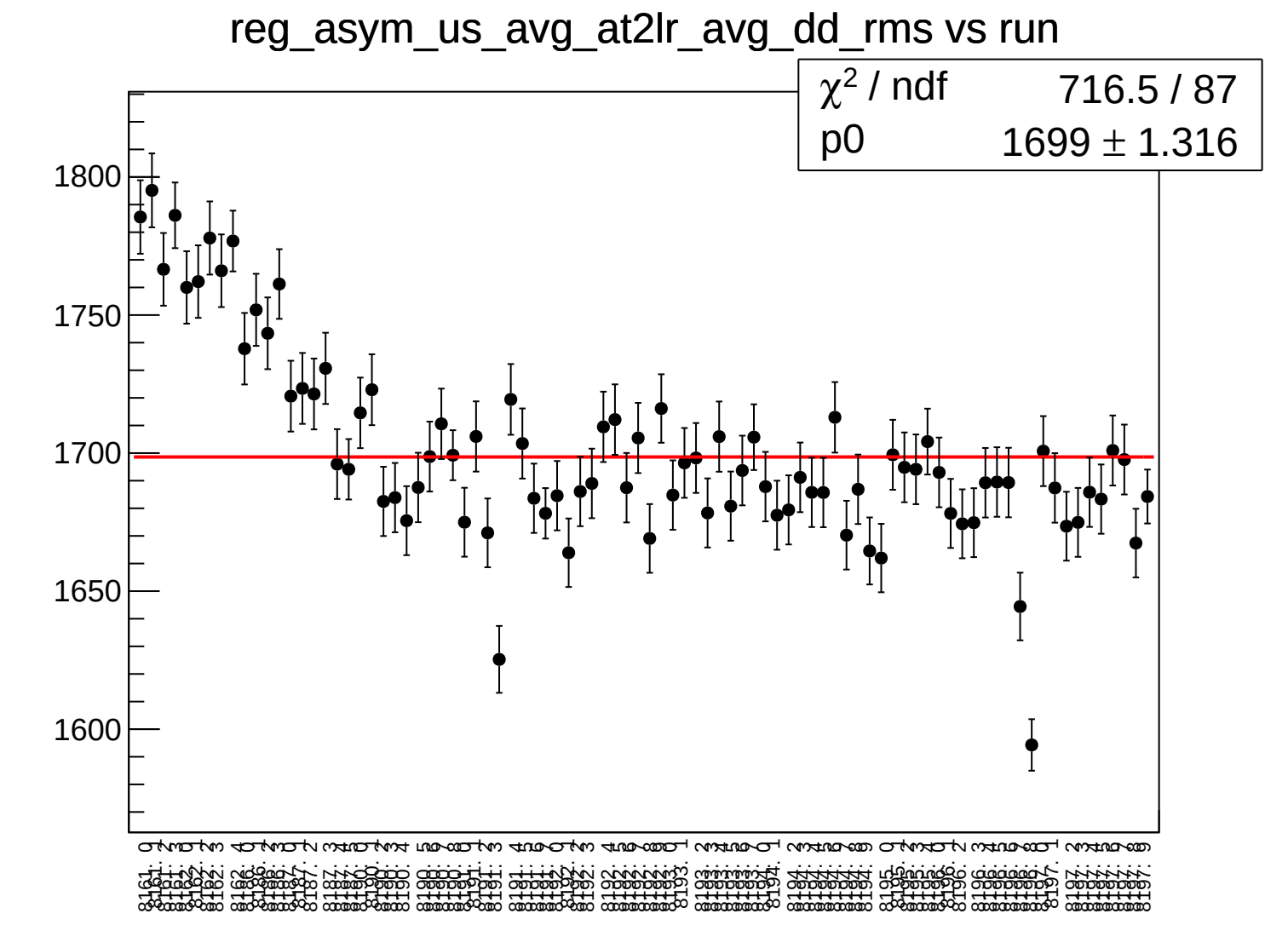

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 76.98 / 87
p0 −1.323e−12 ± 1.178e−12
pull
Entries 88
Mean 41.01
Std Dev 9.389

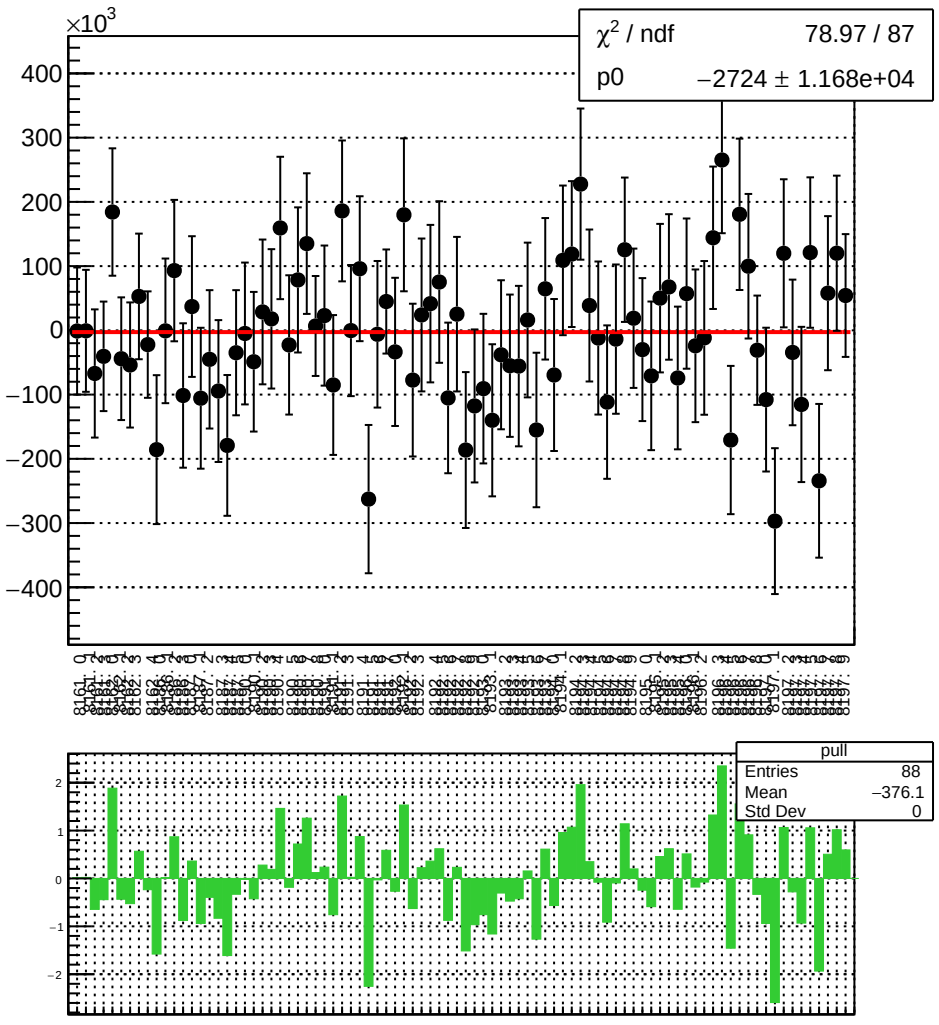

pull1D
Entries 88
Mean −0.1186
Std Dev 0.9277

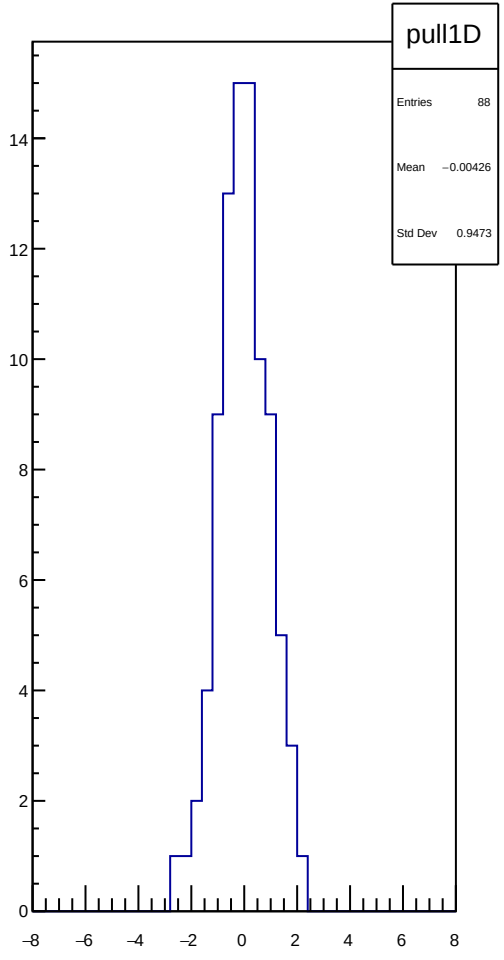

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.256e+05 / 87
p0 8.9e−10 ± 8.331e−13

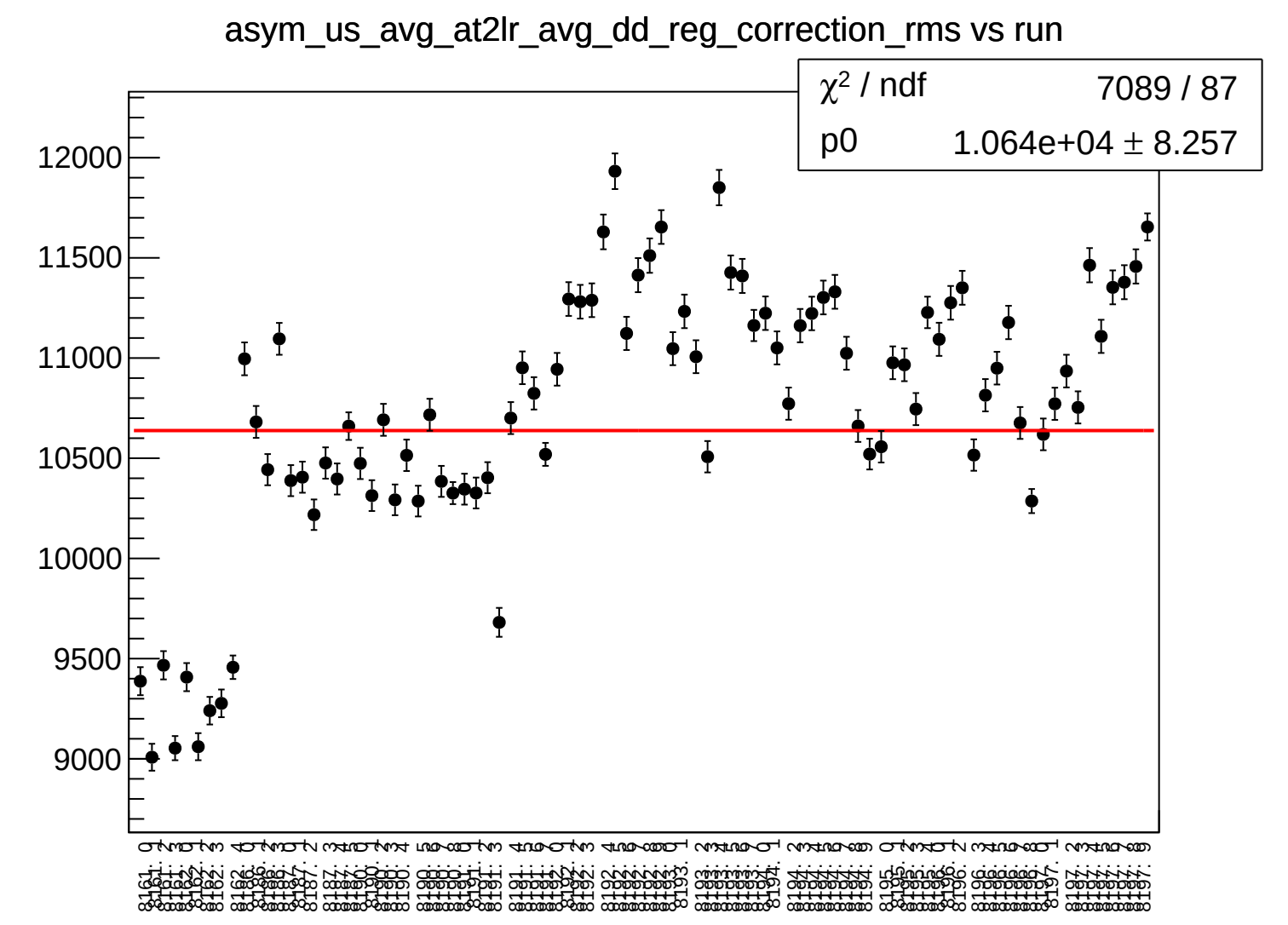

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 84.32 / 87
p0 1030 ± 1861
×10³
pull
Entries 88
Mean −52.86
Std Dev 0

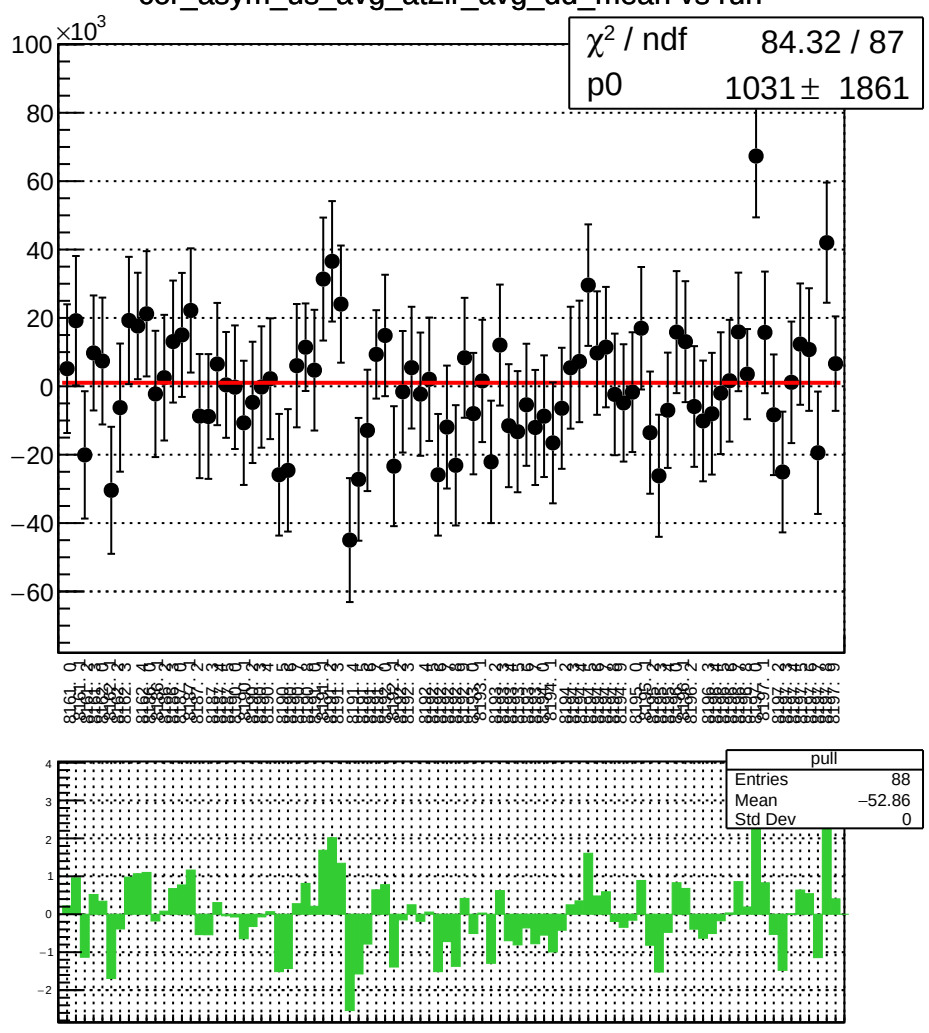

pull1D
Entries 88
Mean −0.01059
Std Dev 0.9788

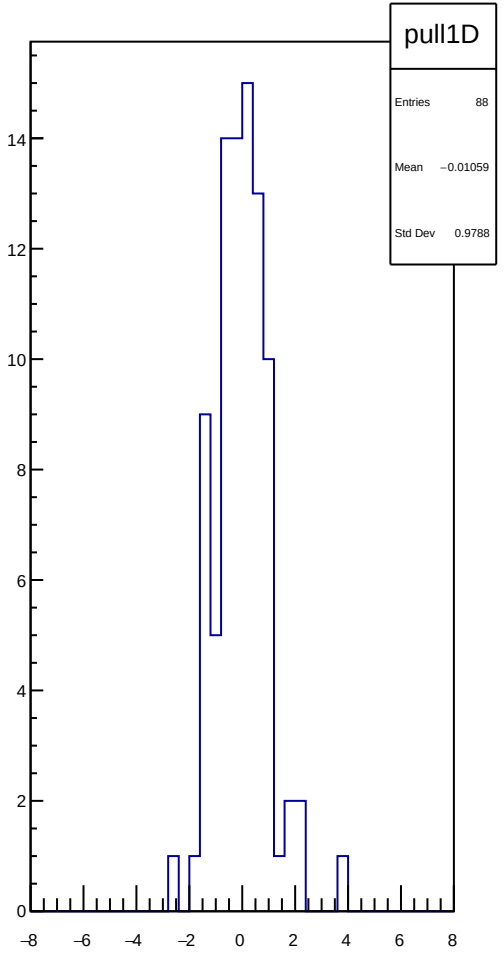

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 716.5 / 87
p0 1699 ± 1.316
1800
1750
1700
1650
1600

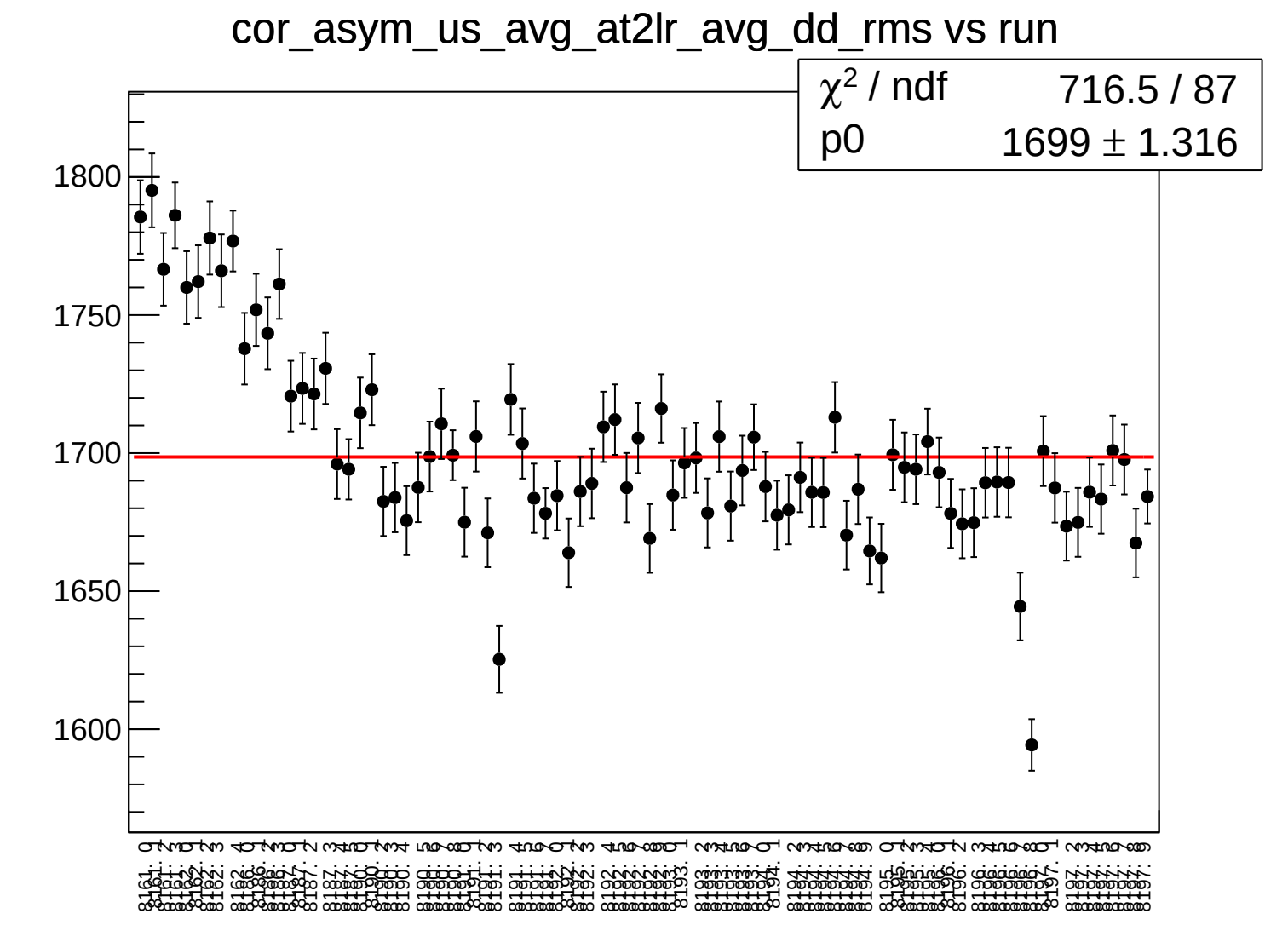

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 78.97 / 87
p0 −2724 ± 1.168e+04
pull
Entries 88
Mean −376.1
Std Dev 0

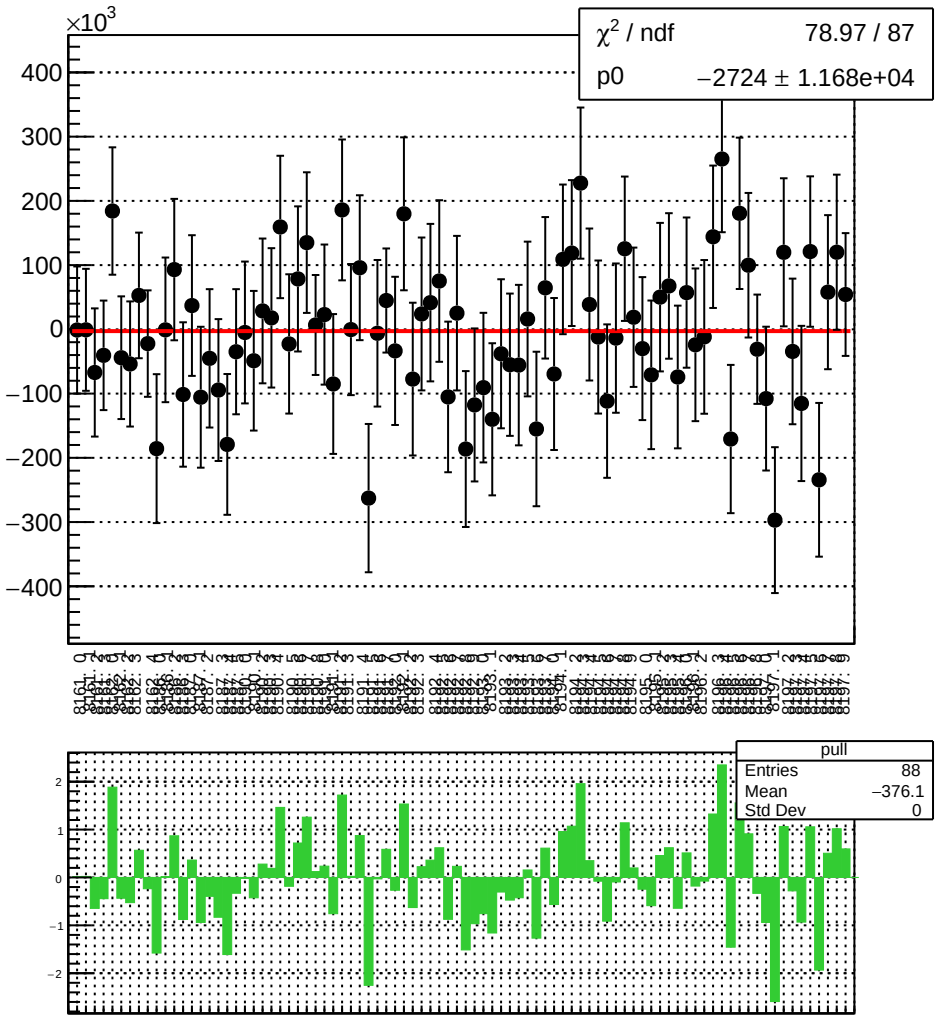

pull1D
Entries 88
Mean −0.00426
Std Dev 0.9473

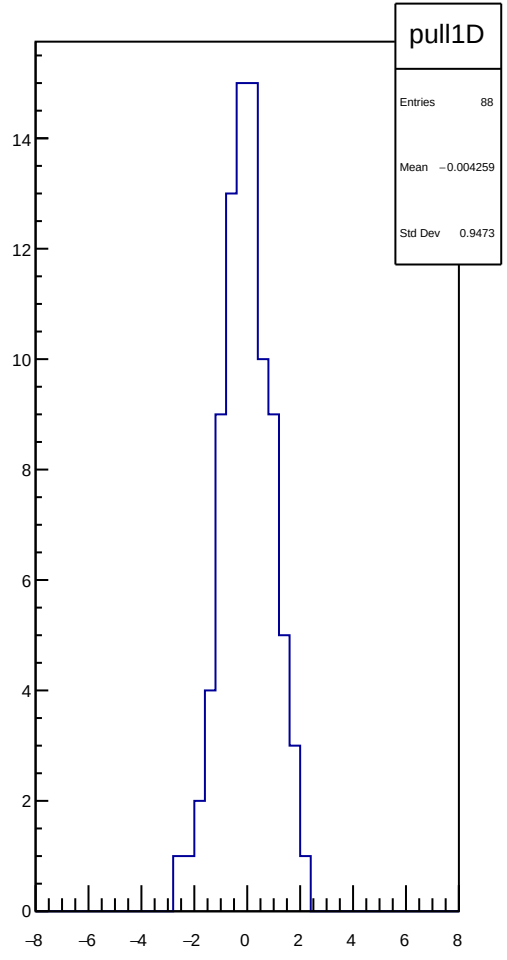

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 7089 / 87
p0 1.064e+04 ± 8.257
12000
11500
11000
10500
10000
9500
9000

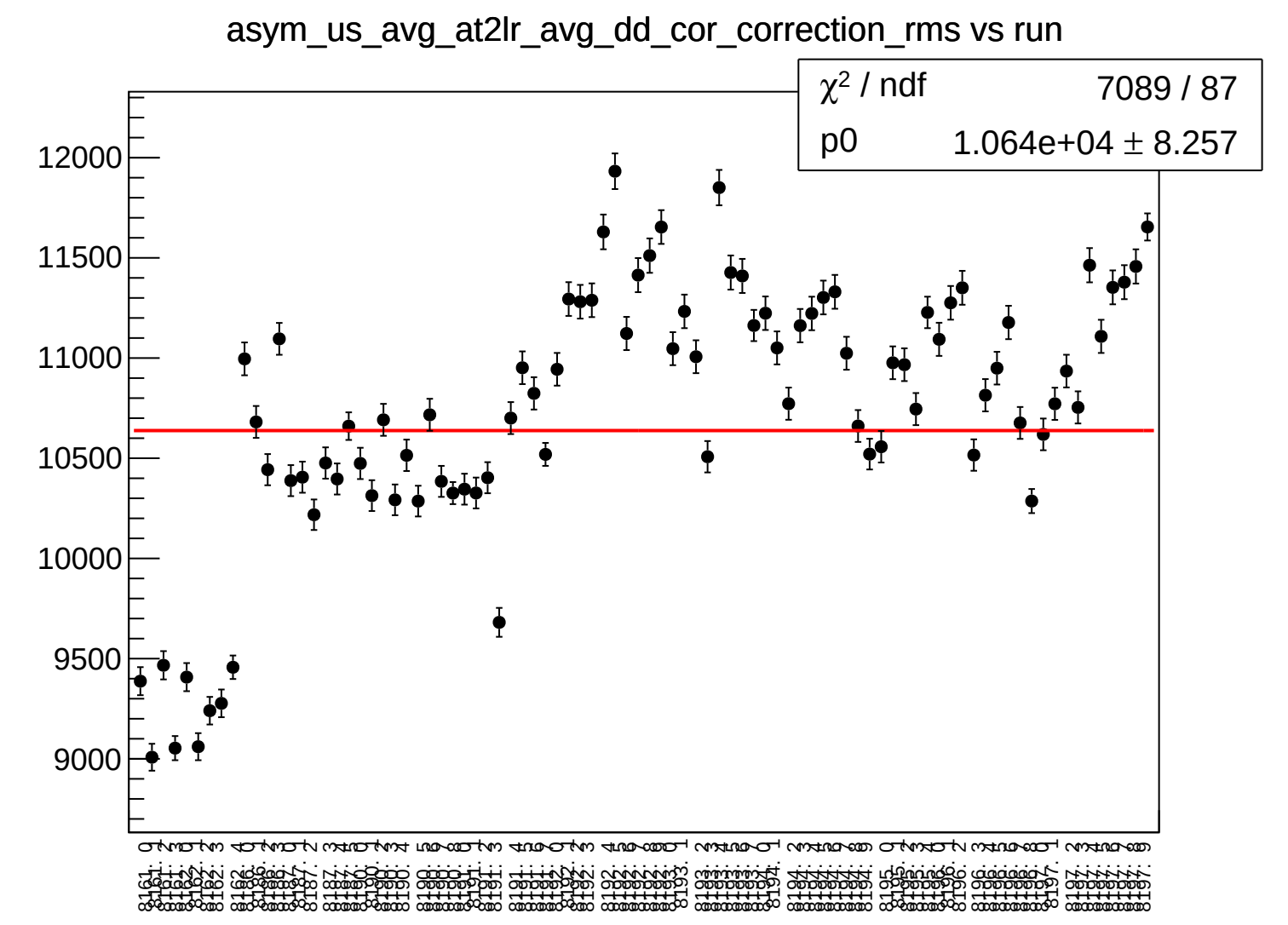

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 84.32 / 87
p0 1031 ± 1861
×10³
pull
Entries 88
Mean −52.86
Std Dev 0

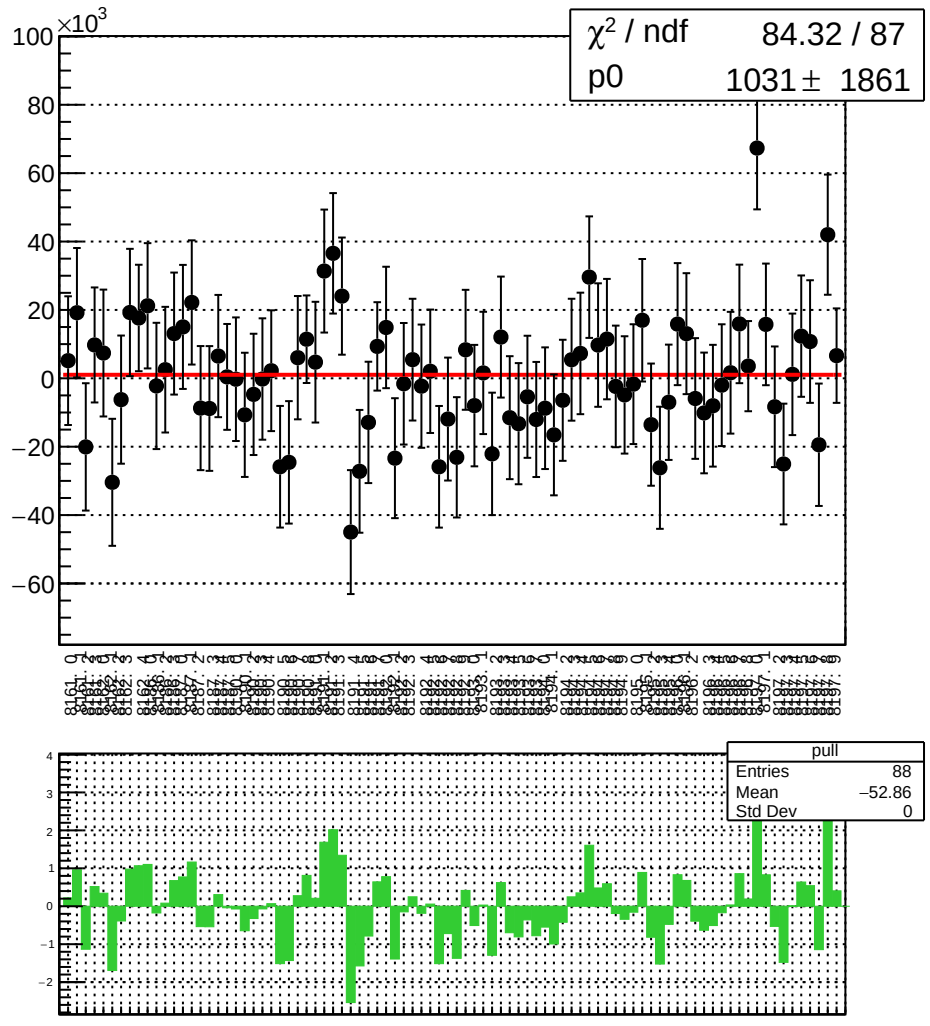

pull1D
Entries 88
Mean −0.01059
Std Dev 0.9788

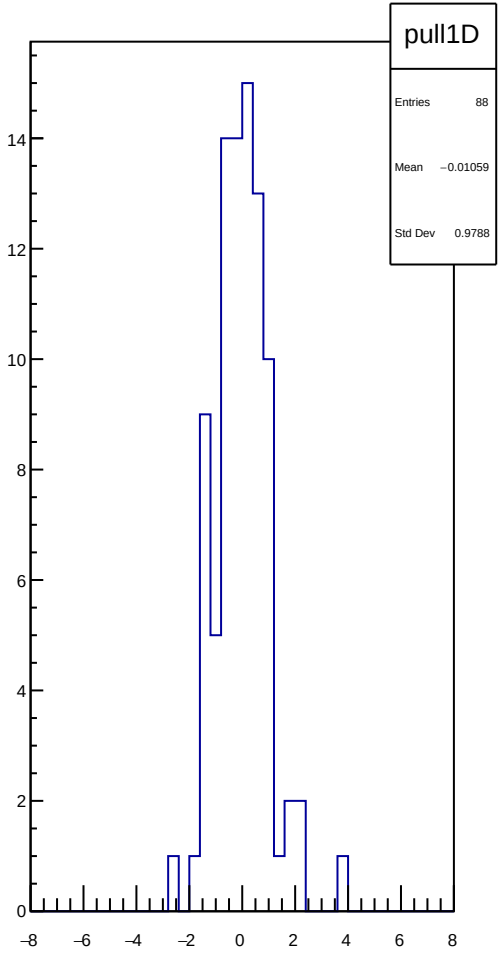

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 716.5 / 87
p0 1699 ± 1.316
1800
1750
1700
1650
1600

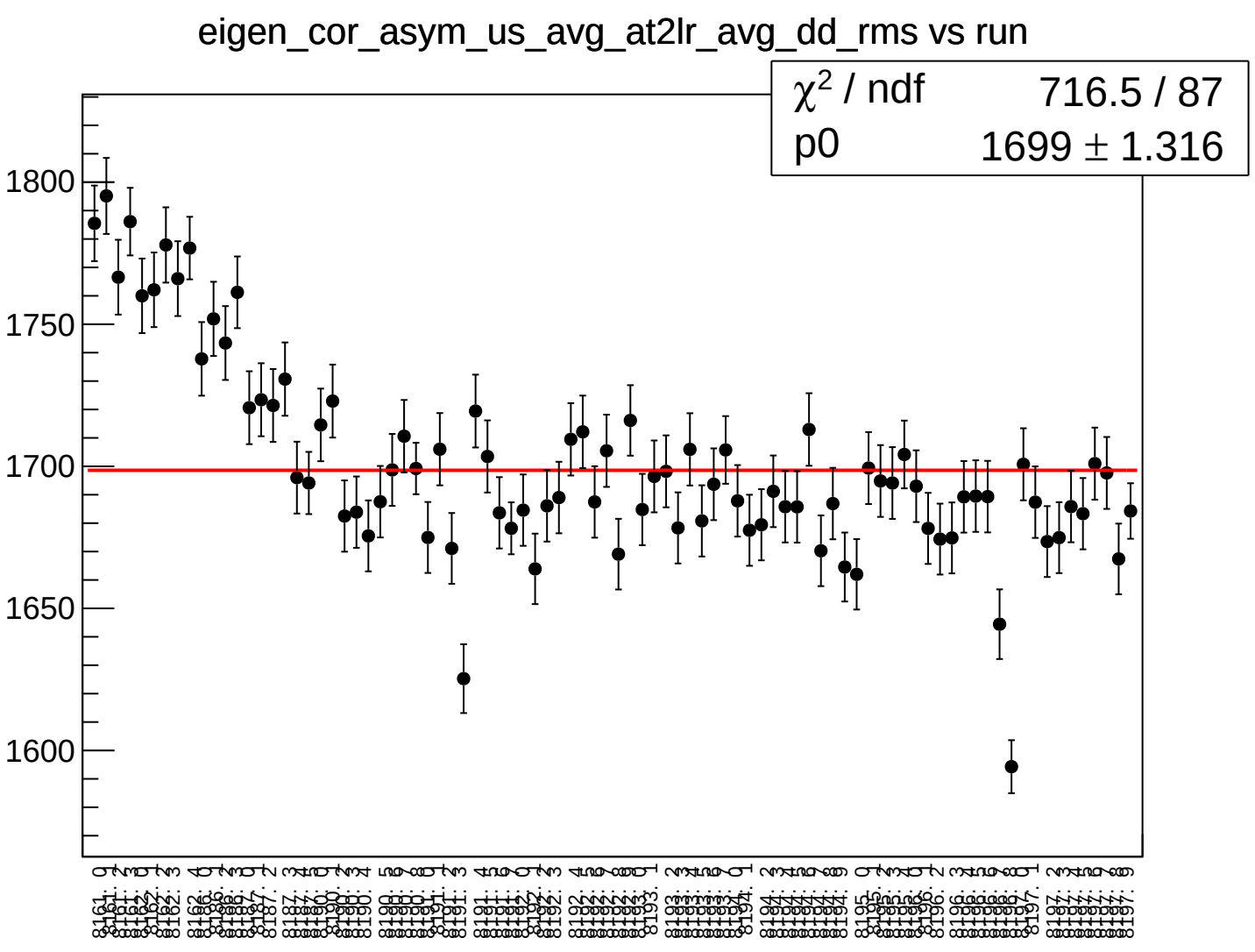

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.97 / 87
p0 −2724 ± 1.168e+04
pull
Entries 88
Mean −376.1
Std Dev 0

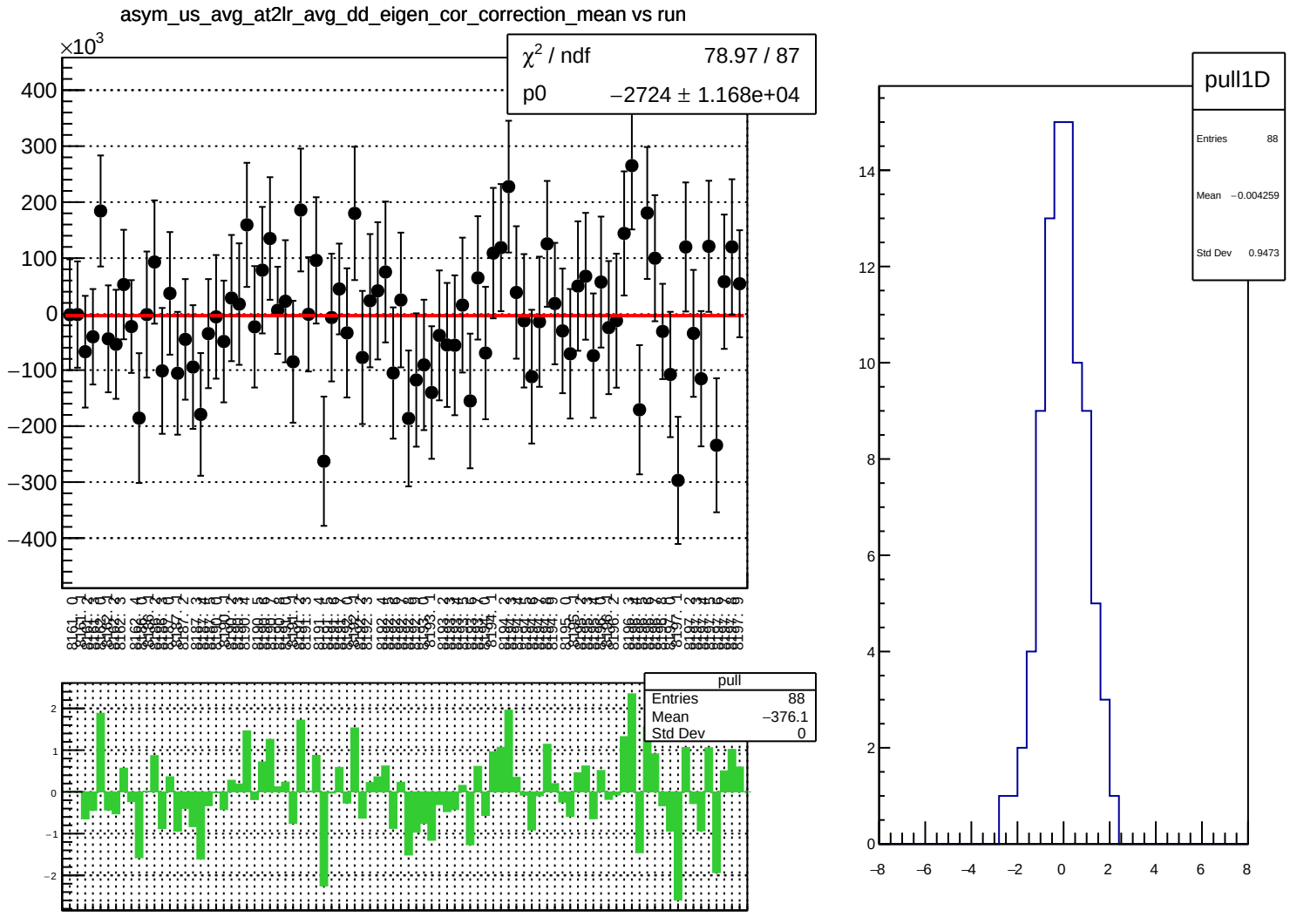

pull1D
Entries 88
Mean −0.004259
Std Dev 0.9473

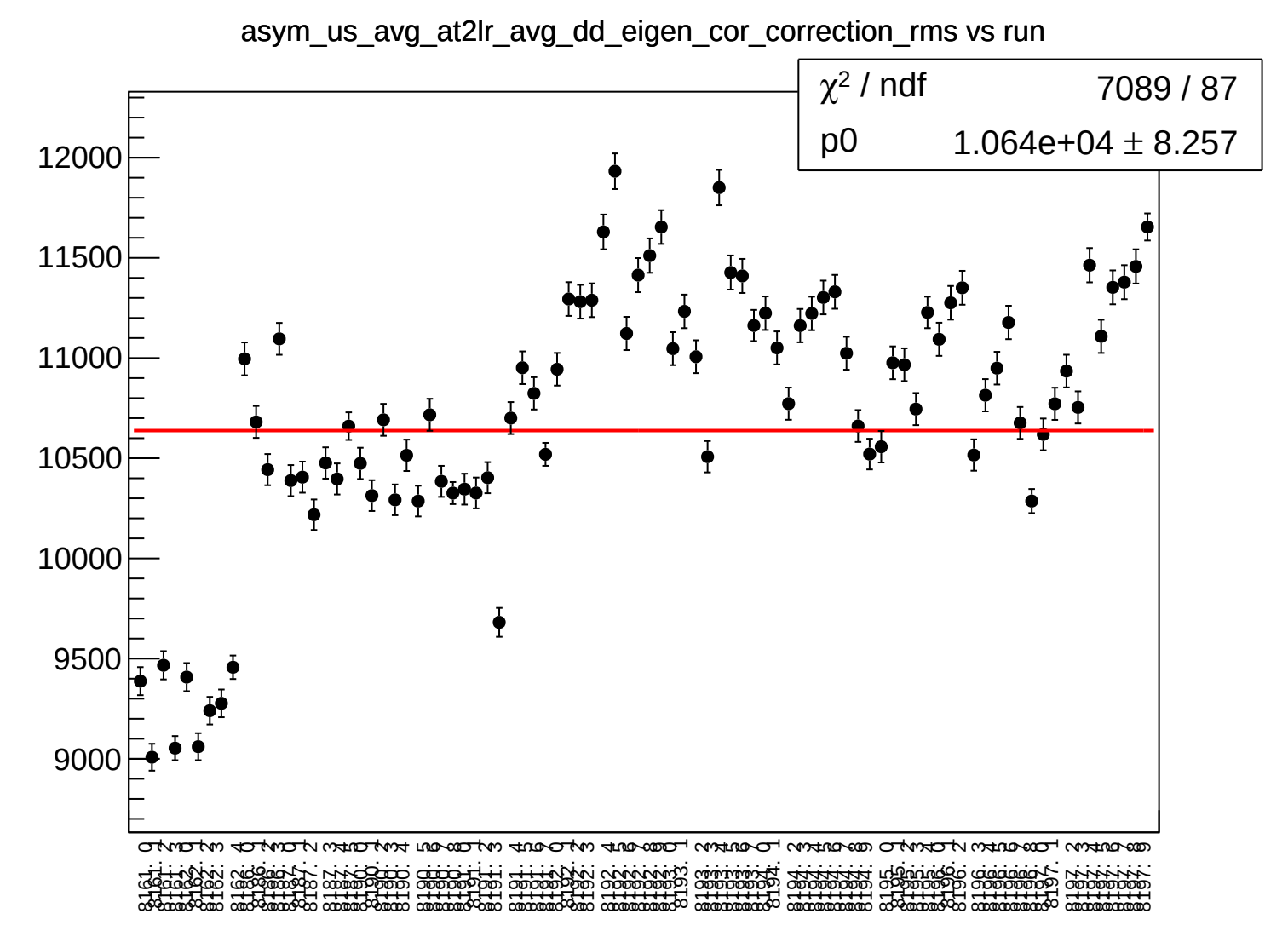

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 7089 / 87
p0 1.064e+04 ± 8.257
12000
11500
11000
10500
10000
9500
9000

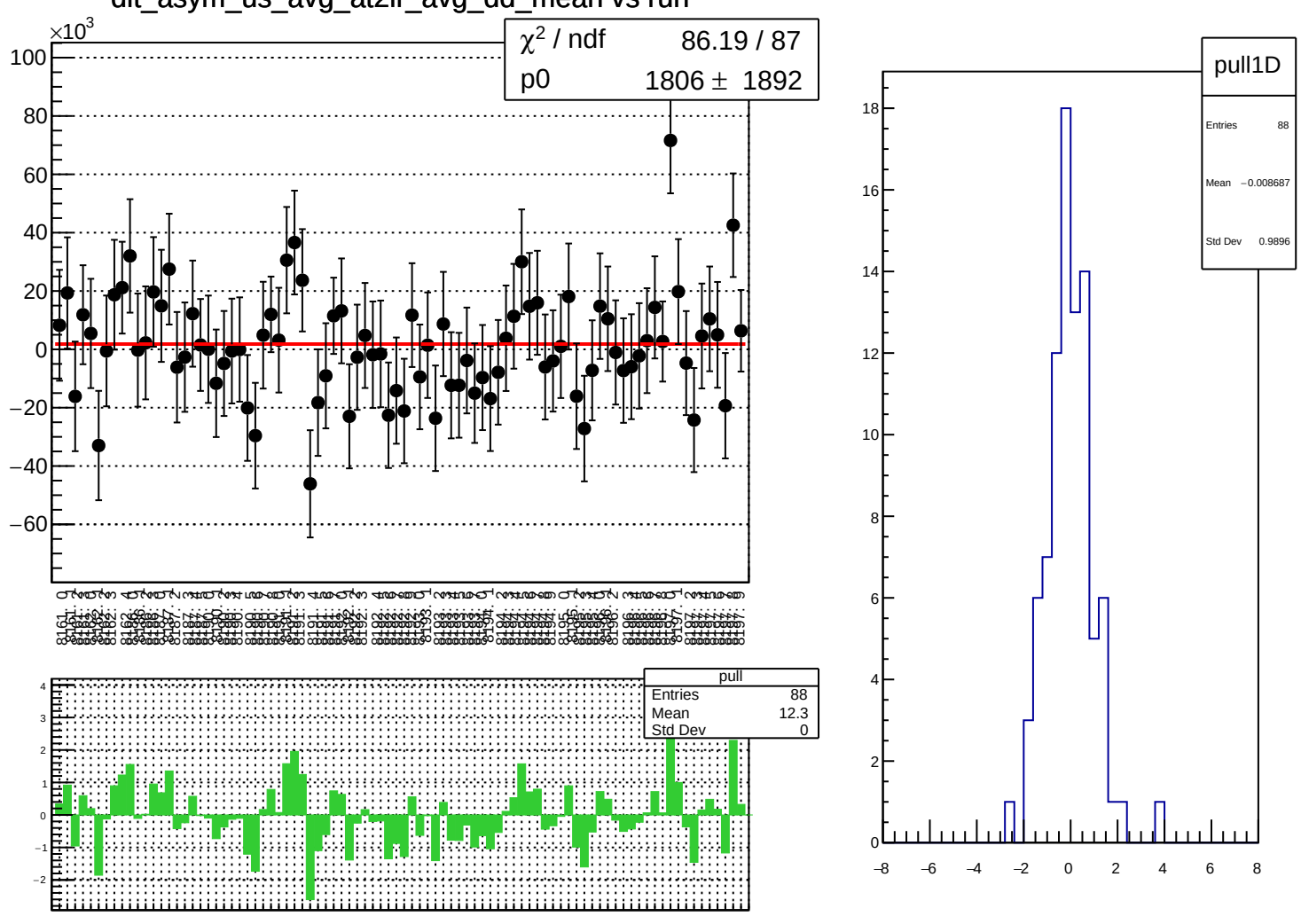

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 84.32 / 87
p0 1031 ± 1861
×10³
pull
Entries 88
Mean −52.86
Std Dev 0

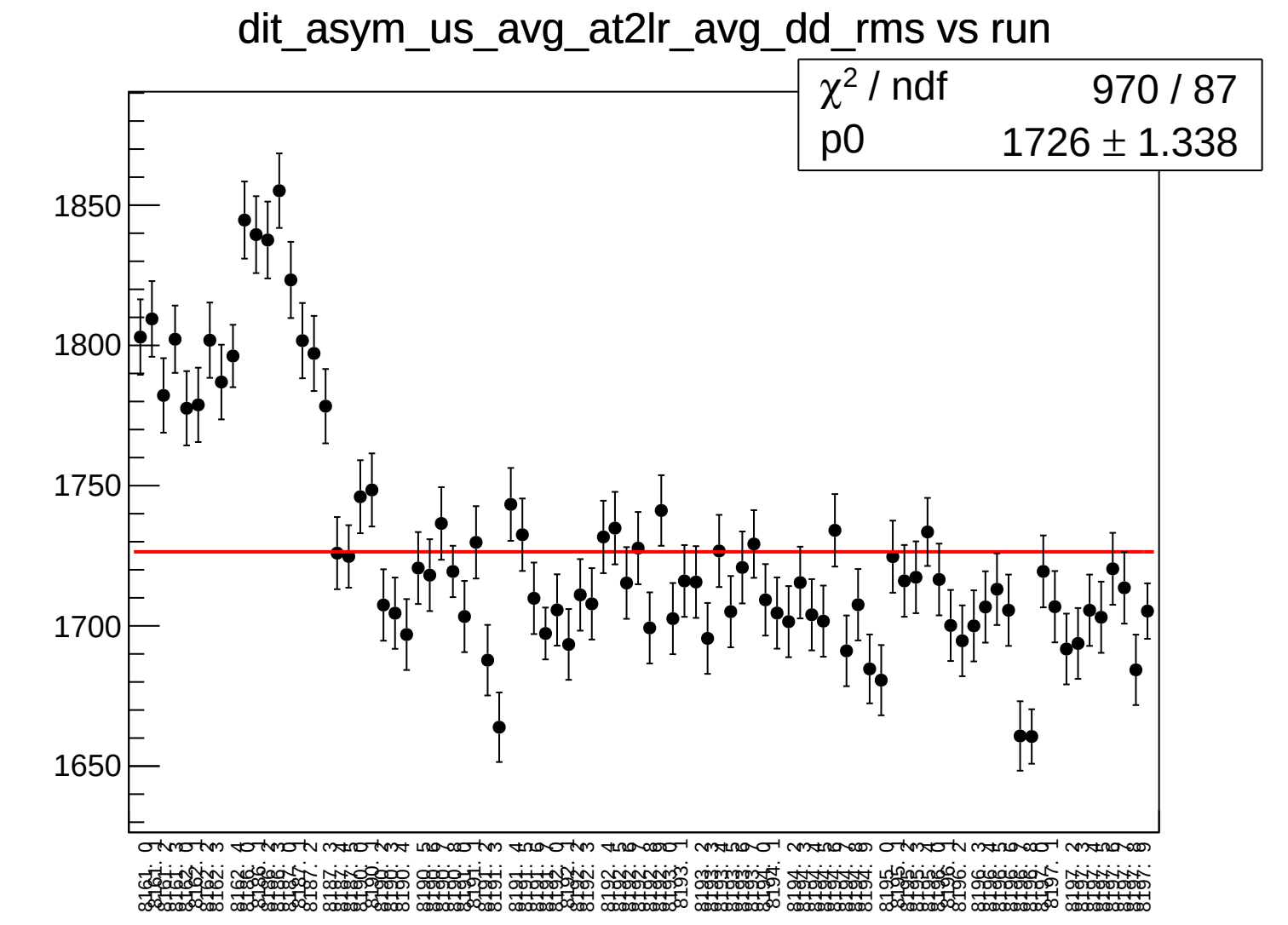

pull1D
Entries 88
Mean −0.01059
Std Dev 0.9788

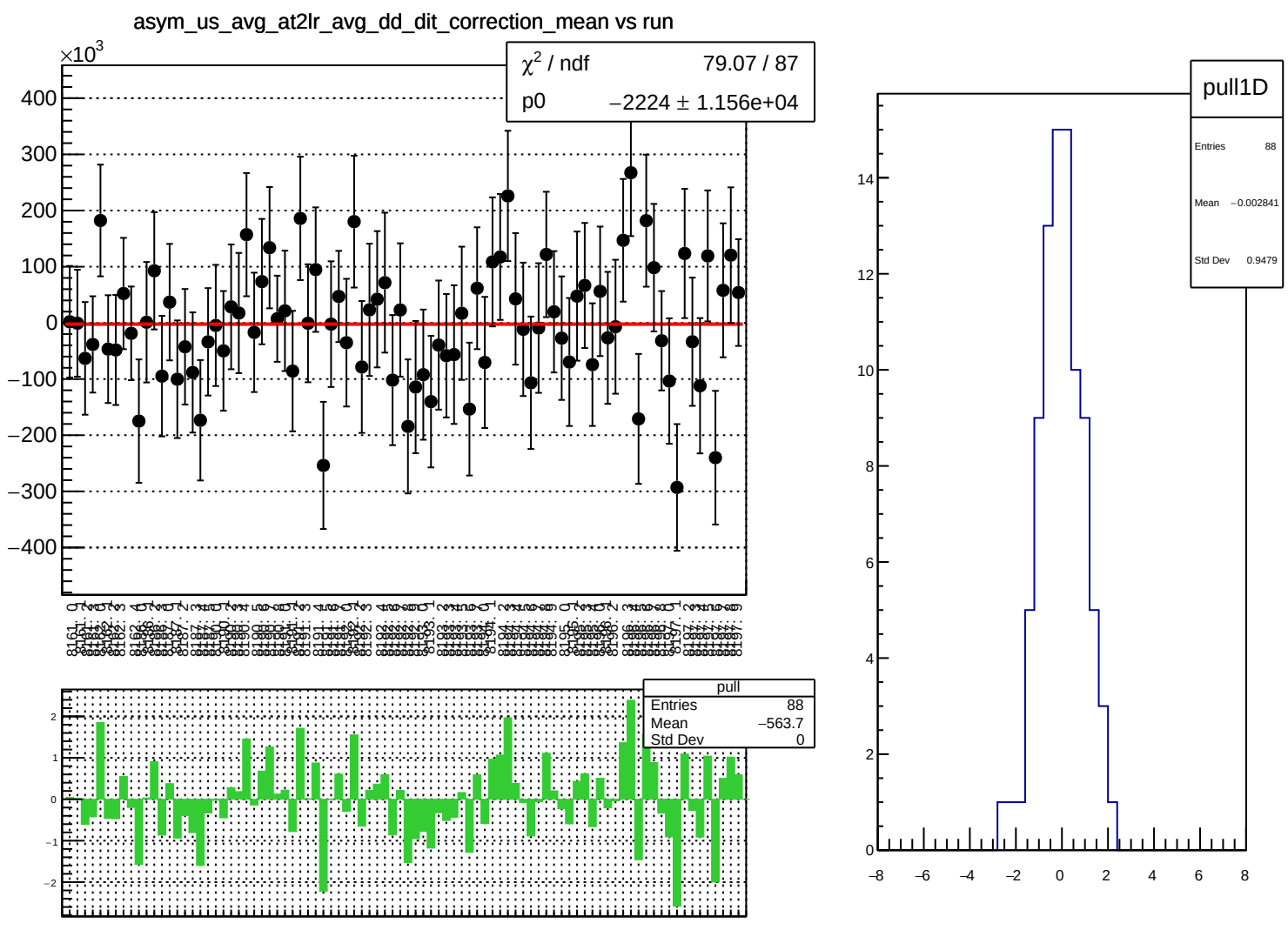

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 716.5 / 87
p0 1699 ± 1.316
1800
1750
1700
1650
1600

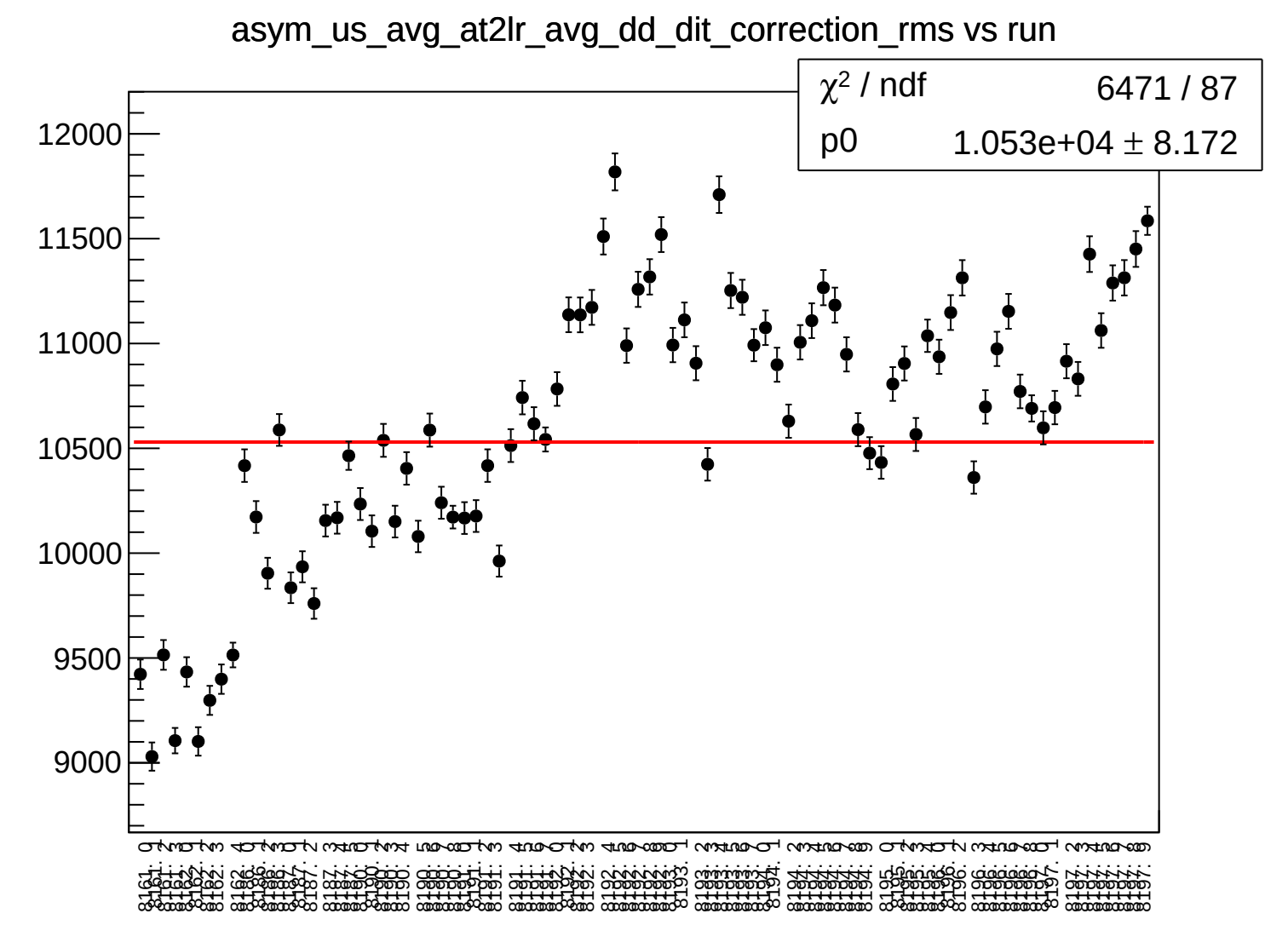

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.97 / 87
p0 −2724 ± 1.168e+04
pull
Entries 88
Mean −376.1
Std Dev 0
pull1D
Entries 88
Mean −0.004259
Std Dev 0.9473

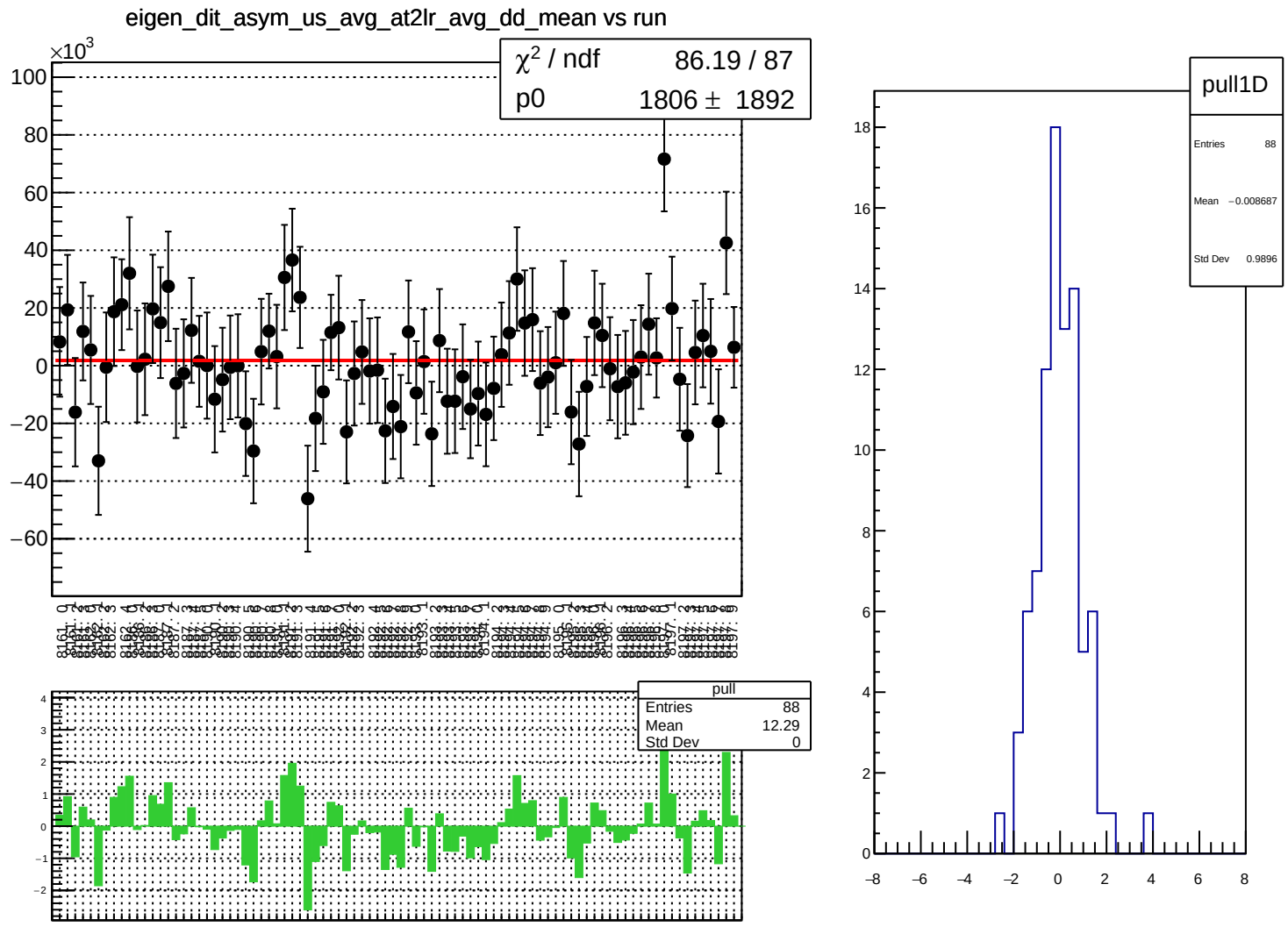

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7089 / 87
p0 1.064e+04 ± 8.257
12000
11500
11000
10500
10000
9500
9000

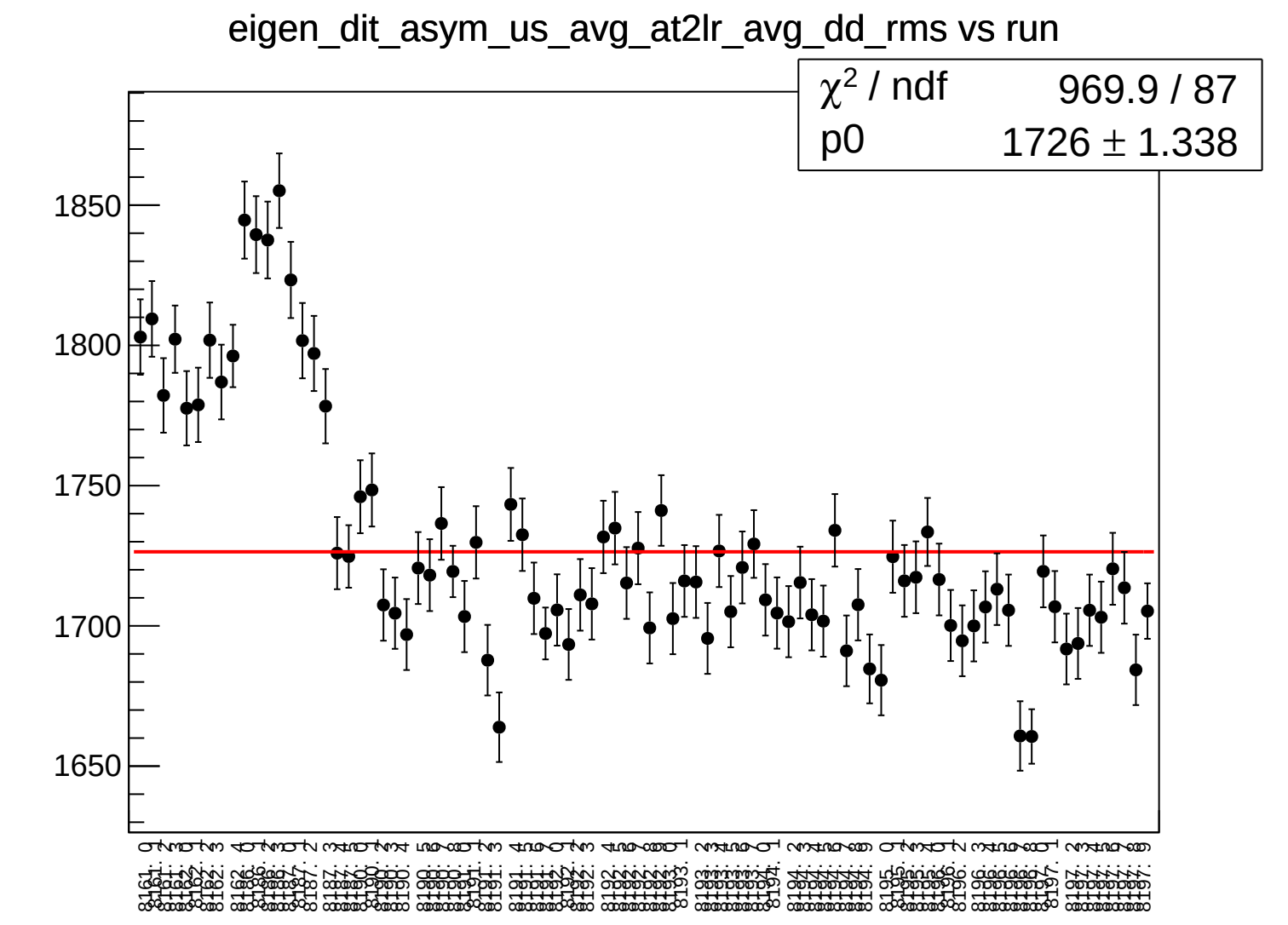

dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 86.19 / 87
p0 1806 ± 1892
pull
Entries 88
Mean 12.3
Std Dev 0
pull1D
Entries 88
Mean −0.008687
Std Dev 0.9896

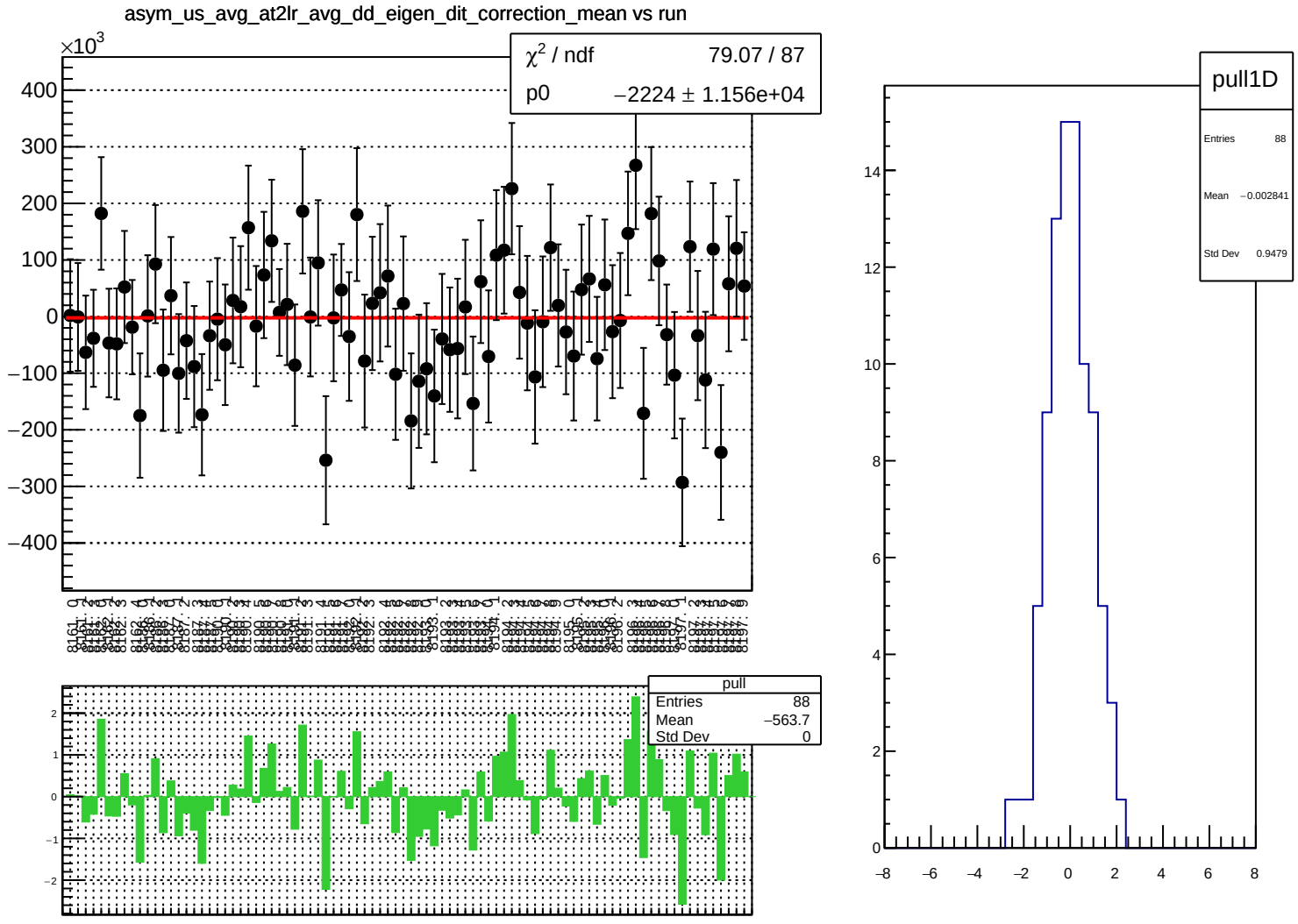

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 970 / 87
p0 1726 ± 1.338
1850
1800
1750
1700
1650

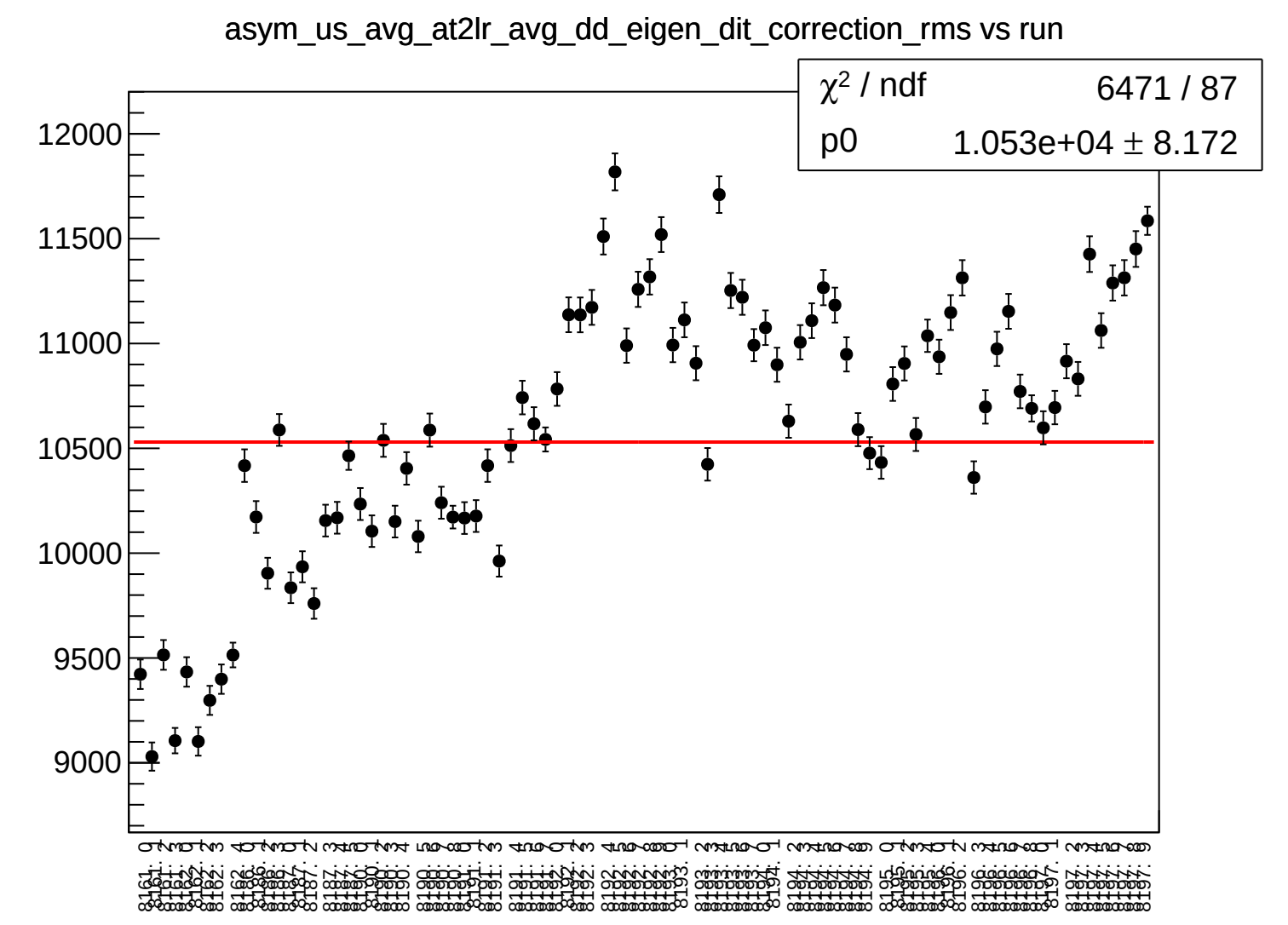

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.07 / 87
p0 −2224 ± 1.156e+04
pull
Entries 88
Mean −563.7
Std Dev 0
pull1D
Entries 88
Mean −0.002841
Std Dev 0.9479

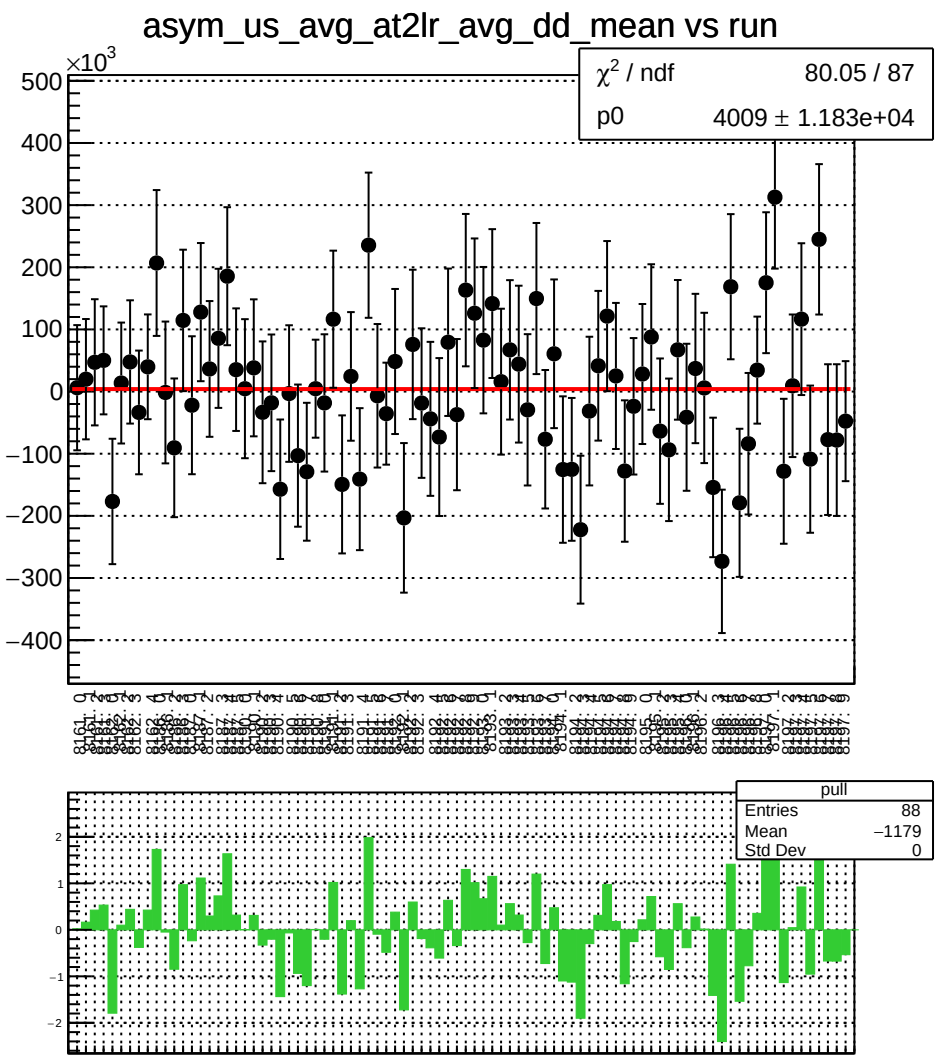

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6471 / 87
p0 1.053e+04 ± 8.172
12000
11500
11000
10500
10000
9500
9000

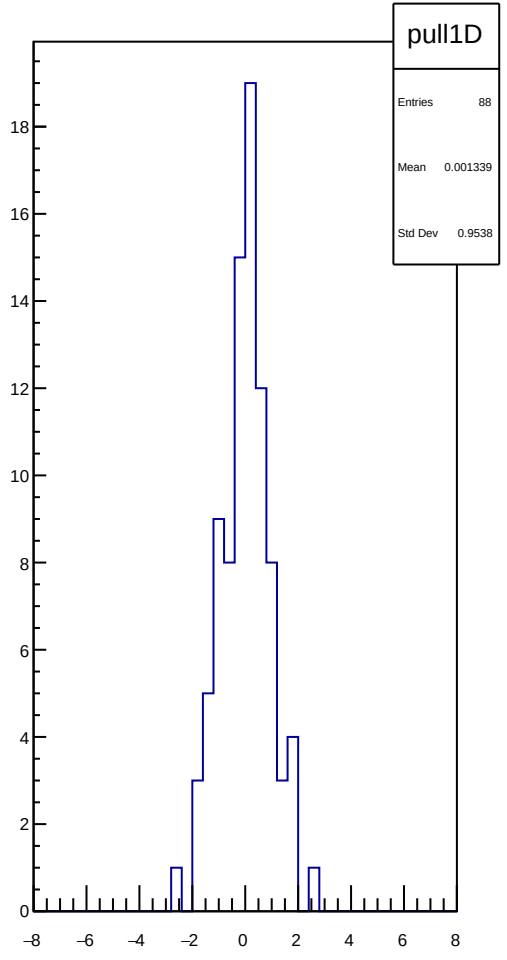

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 86.19 / 87
p0 1806 ± 1892
pull
Entries 88
Mean 12.29
Std Dev 0
pull1D
Entries 88
Mean −0.008687
Std Dev 0.9896

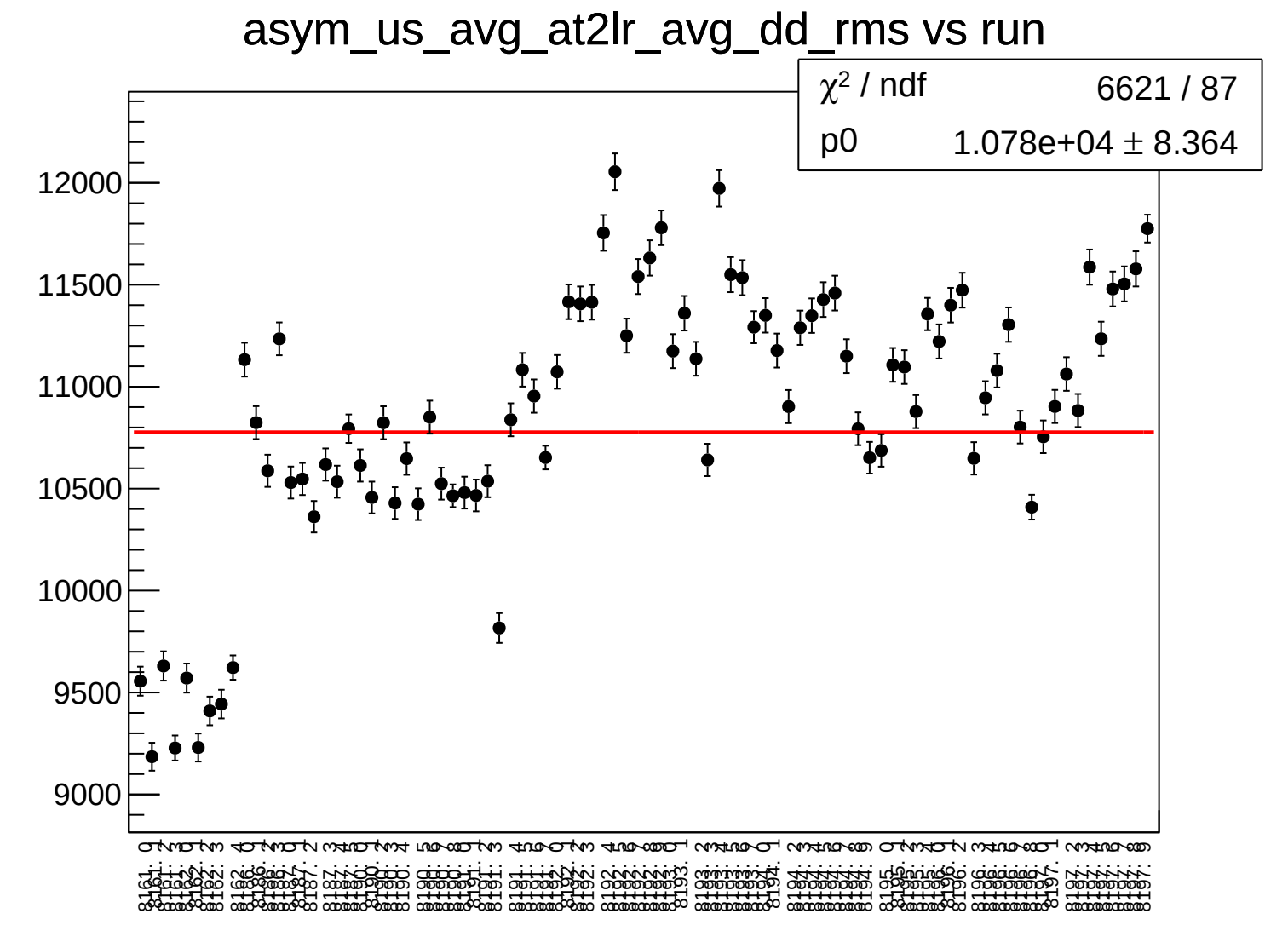

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 969.9 / 87
p0 1726 ± 1.338
1850
1800
1750
1700
1650

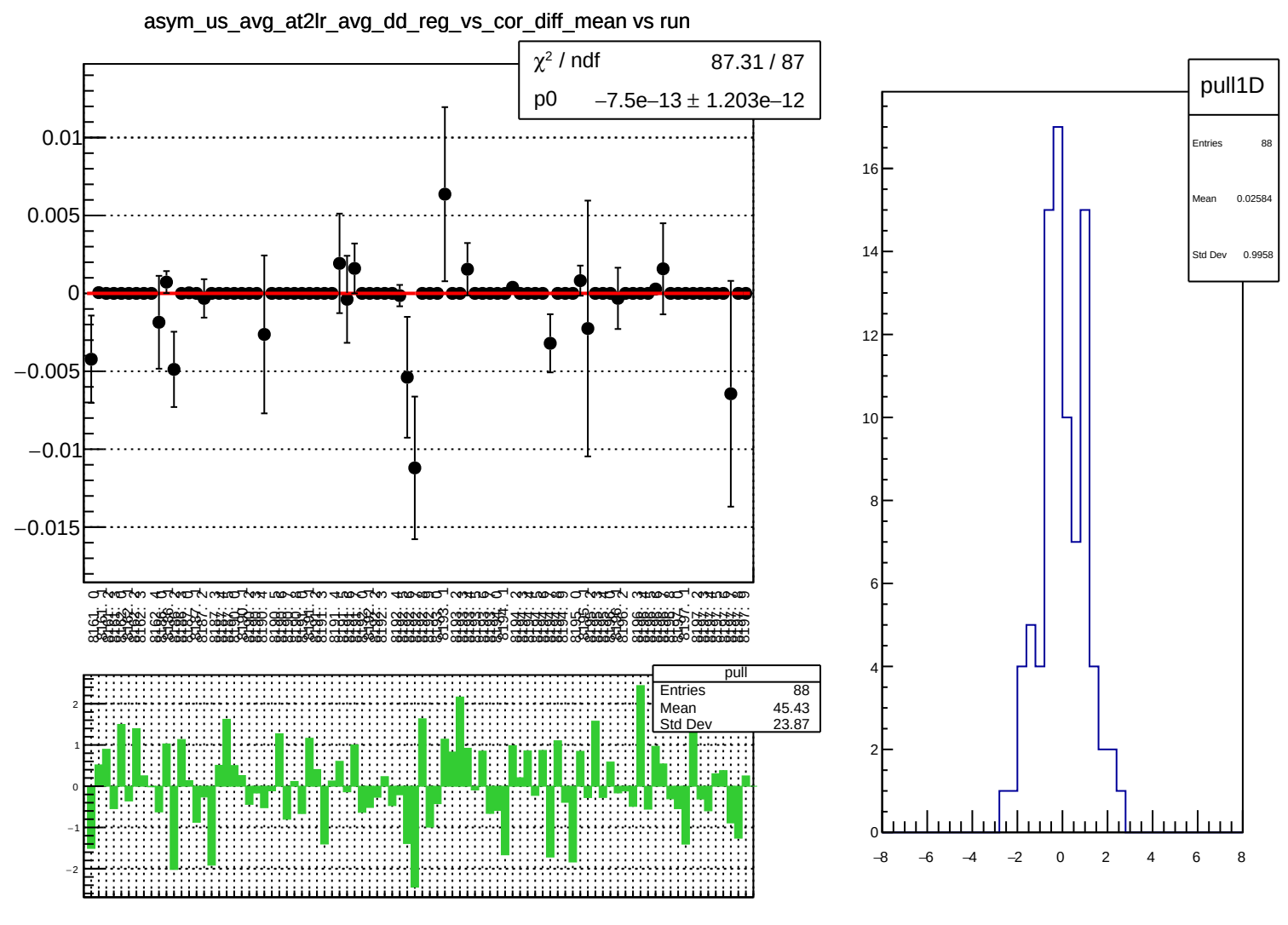

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.07 / 87
p0 −2224 ± 1.156e+04
pull
Entries 88
Mean −563.7
Std Dev 0
pull1D
Entries 88
Mean −0.002841
Std Dev 0.9479

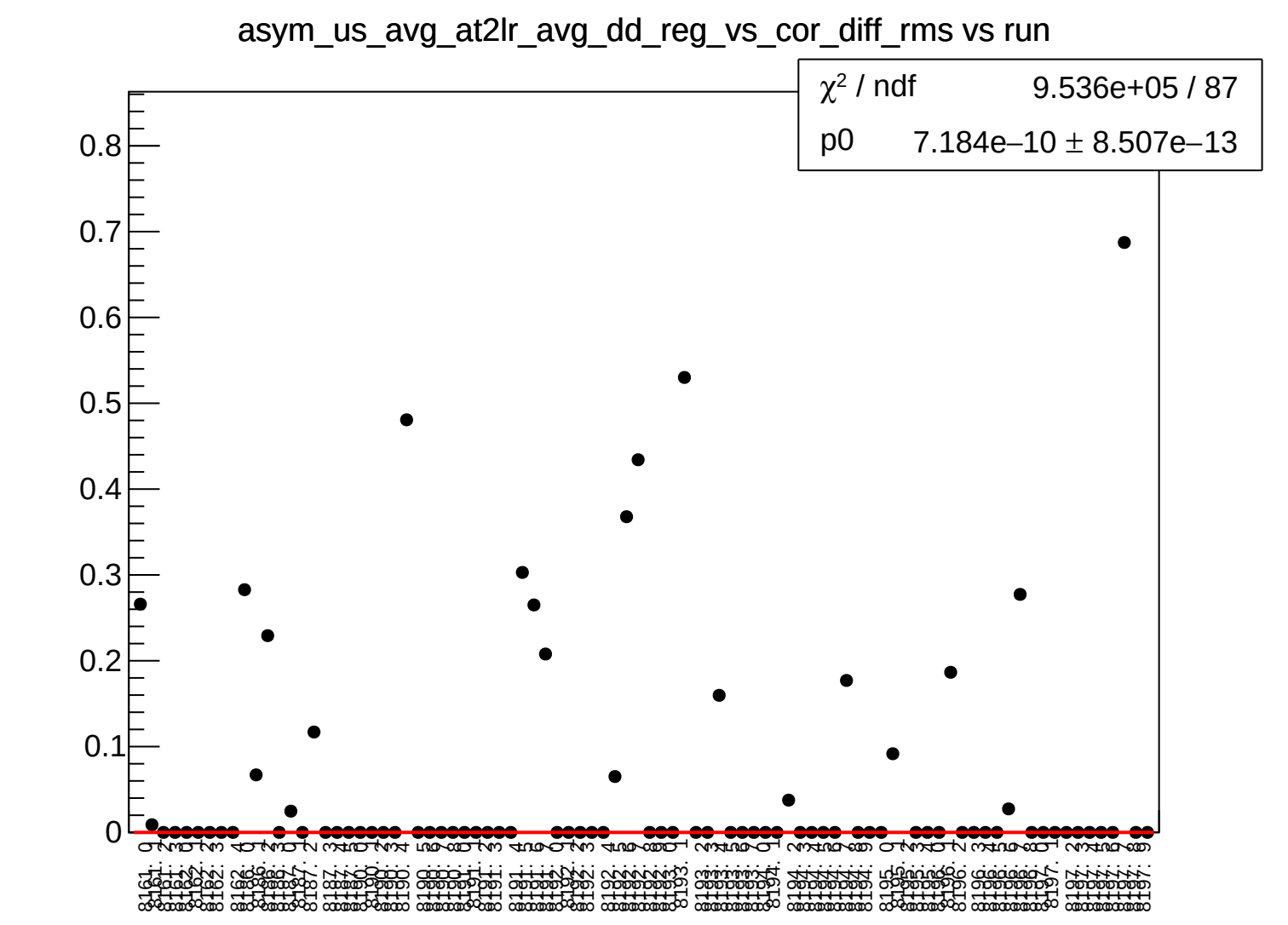

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6471 / 87
p0 1.053e+04 ± 8.172
12000
11500
11000
10500
10000
9500
9000

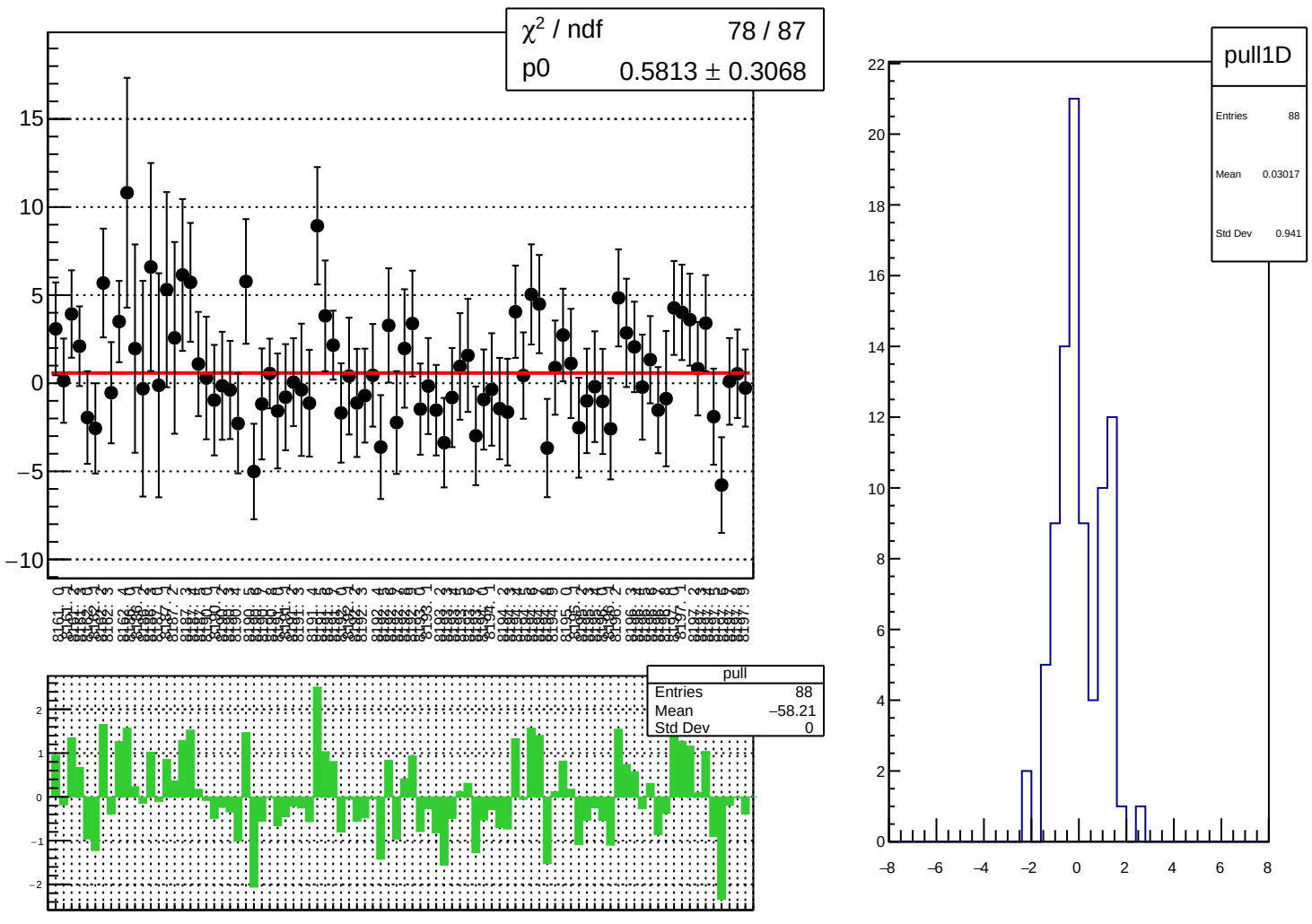

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 80.05 / 87
p0 4009 ± 1.183e+04
pull
Entries 88
Mean −1179
Std Dev 0

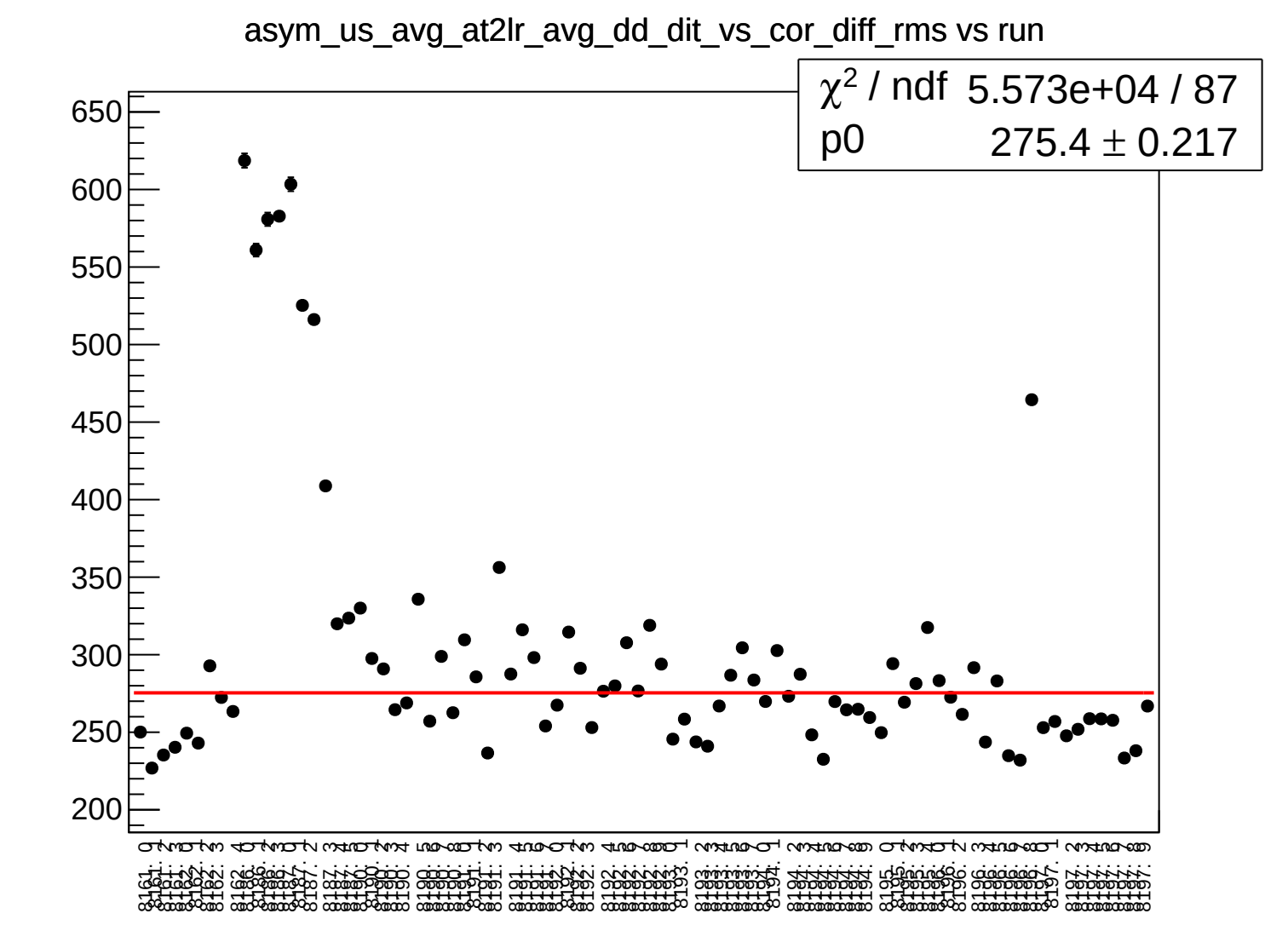

pull1D
Entries 88
Mean 0.001339
Std Dev 0.9538

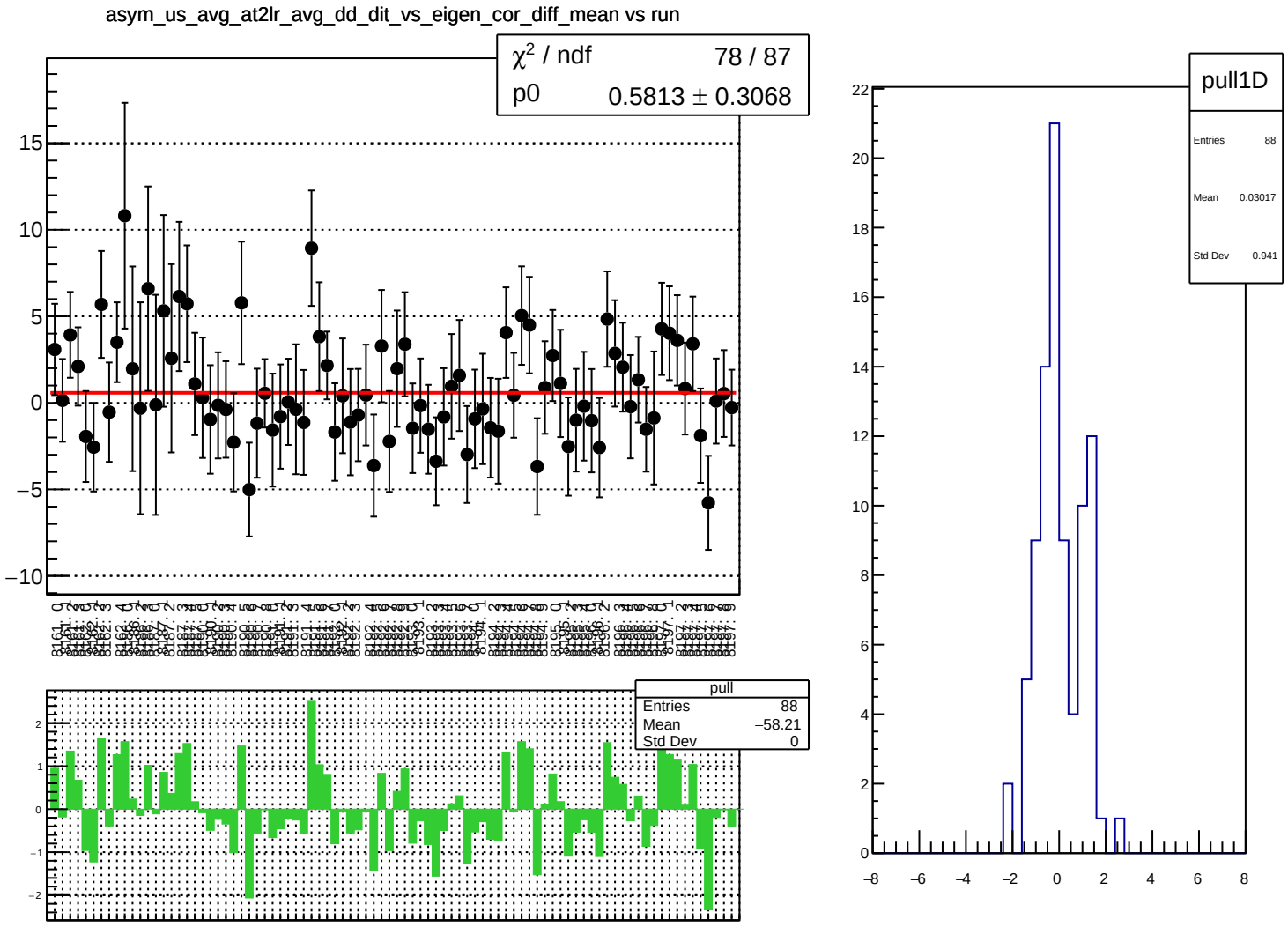

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 6621 / 87
p0 1.078e+04 ± 8.364
12000
11500
11000
10500
10000
9500
9000

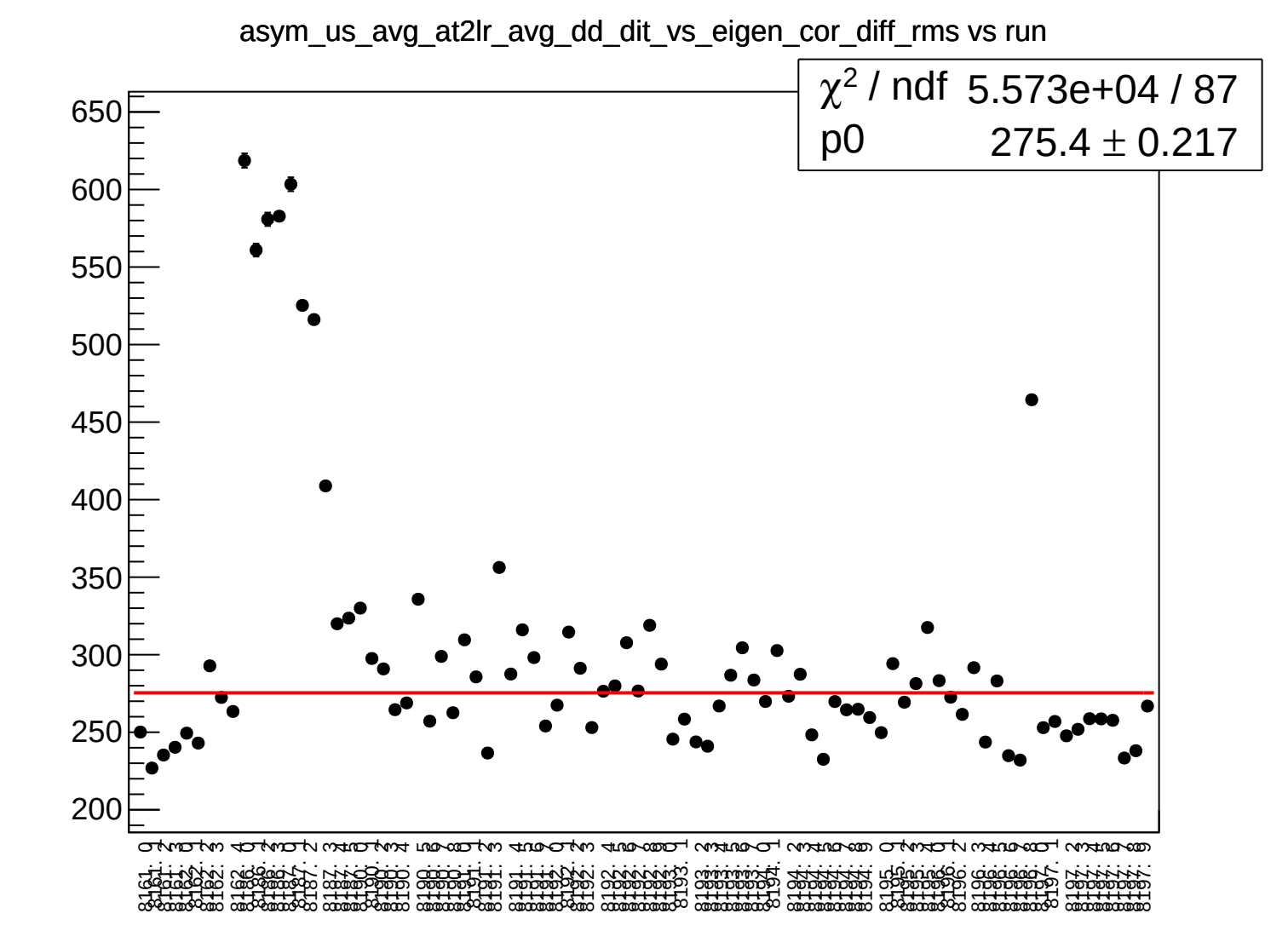

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 87
p0 −7.5e−13 ± 1.203e−12
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 45.43
Std Dev 23.87
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02584
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

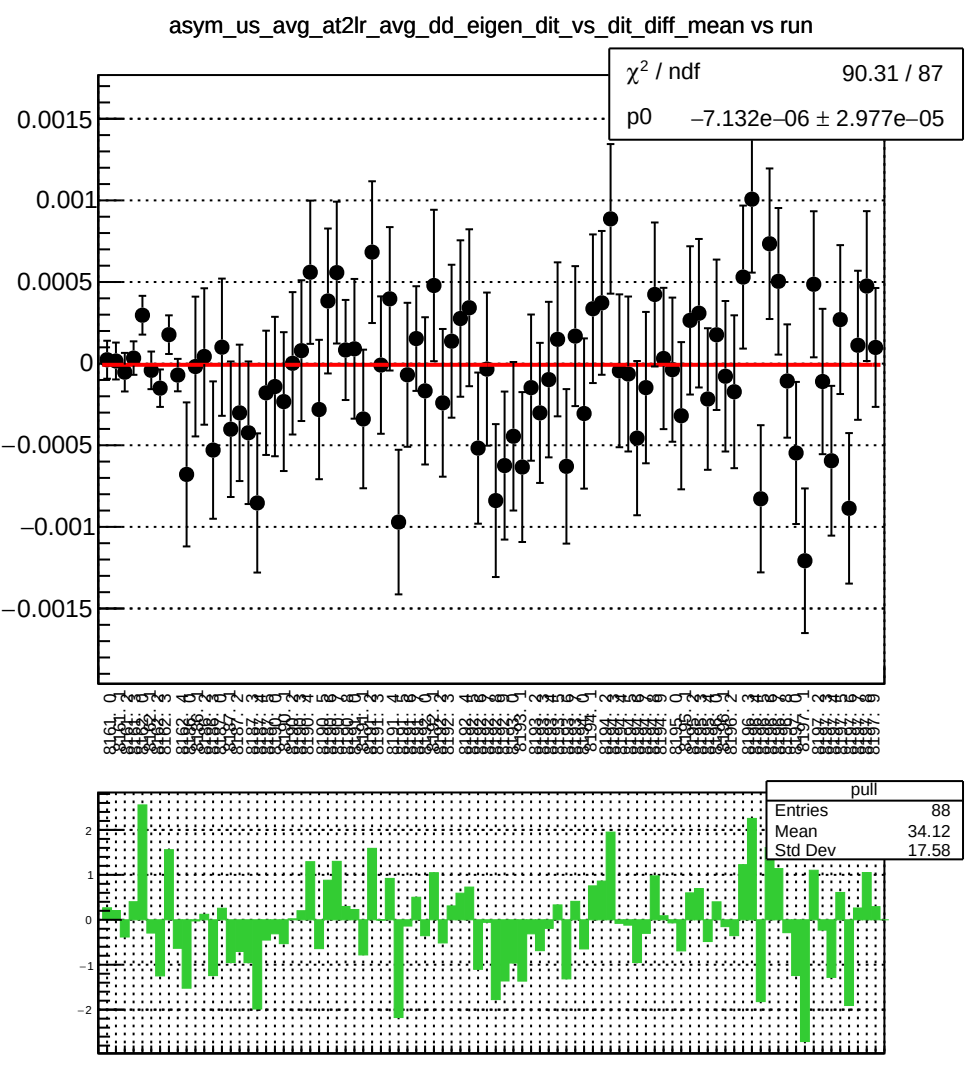

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.536e+05 / 87
p0 7.184e−10 ± 8.507e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

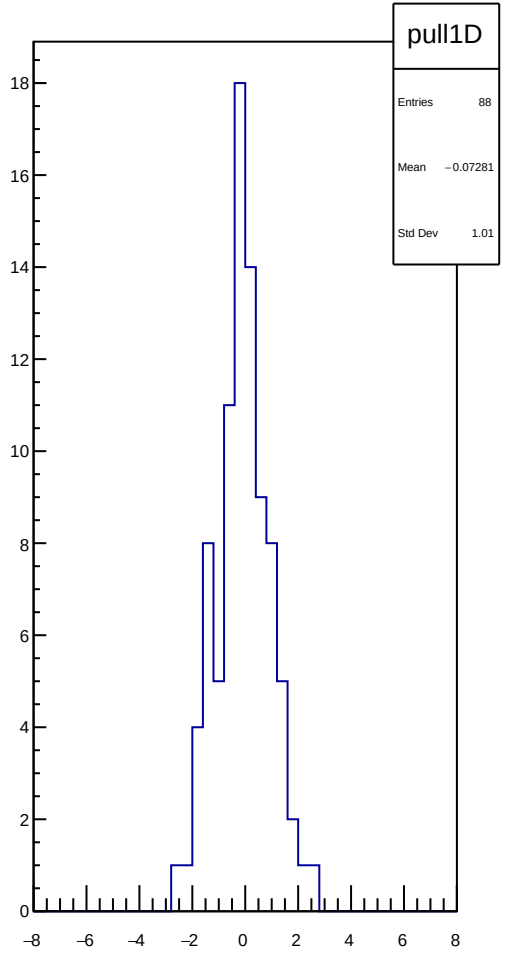

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78 / 87
p0 0.5813 ± 0.3068
pull
Entries 88
Mean −58.21
Std Dev 0
pull1D
Entries 88
Mean 0.03017
Std Dev 0.941

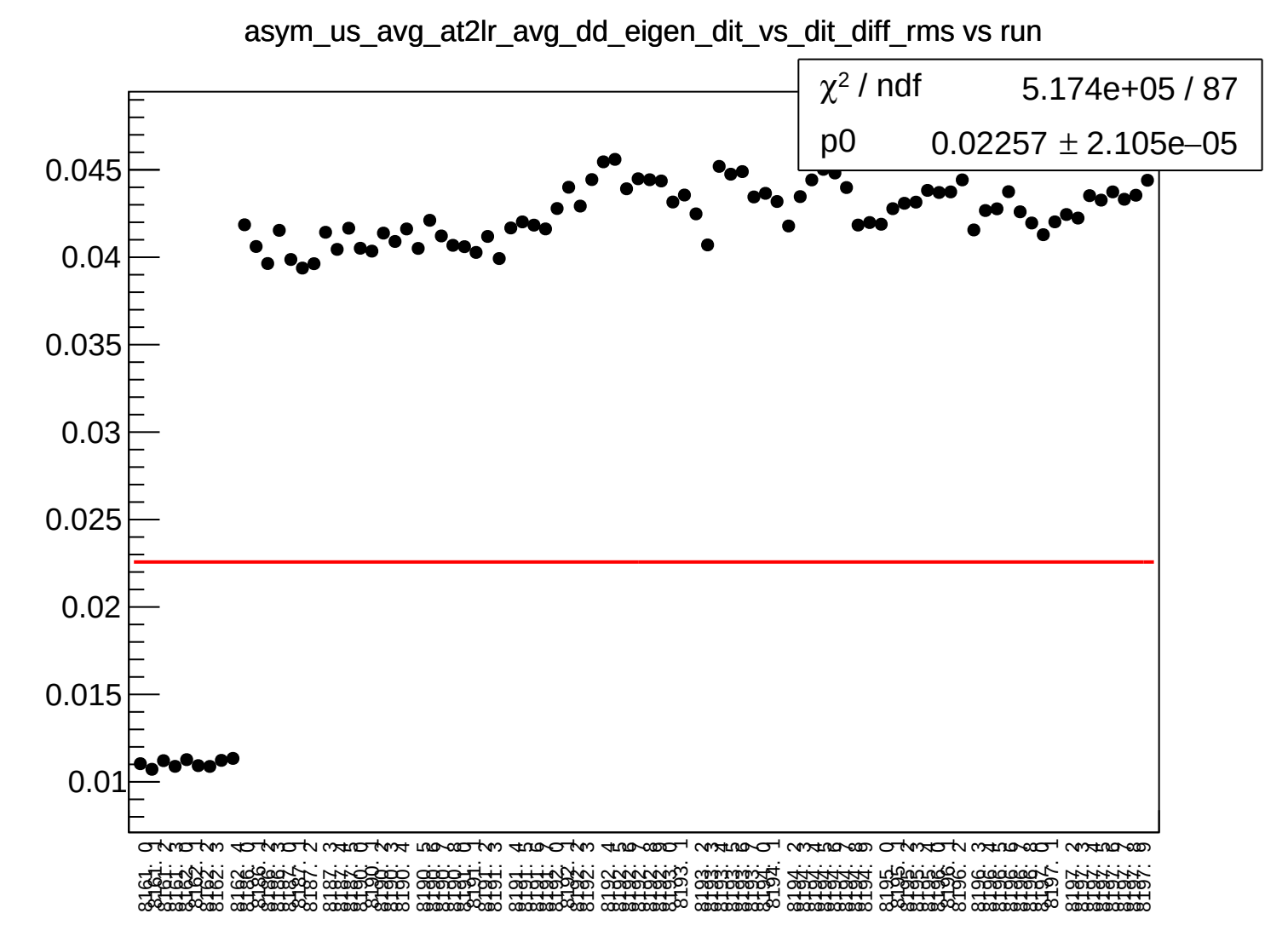

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.573e+04 / 87
p0 275.4 ± 0.217
650
600
550
500
450
400
350
300
250
200

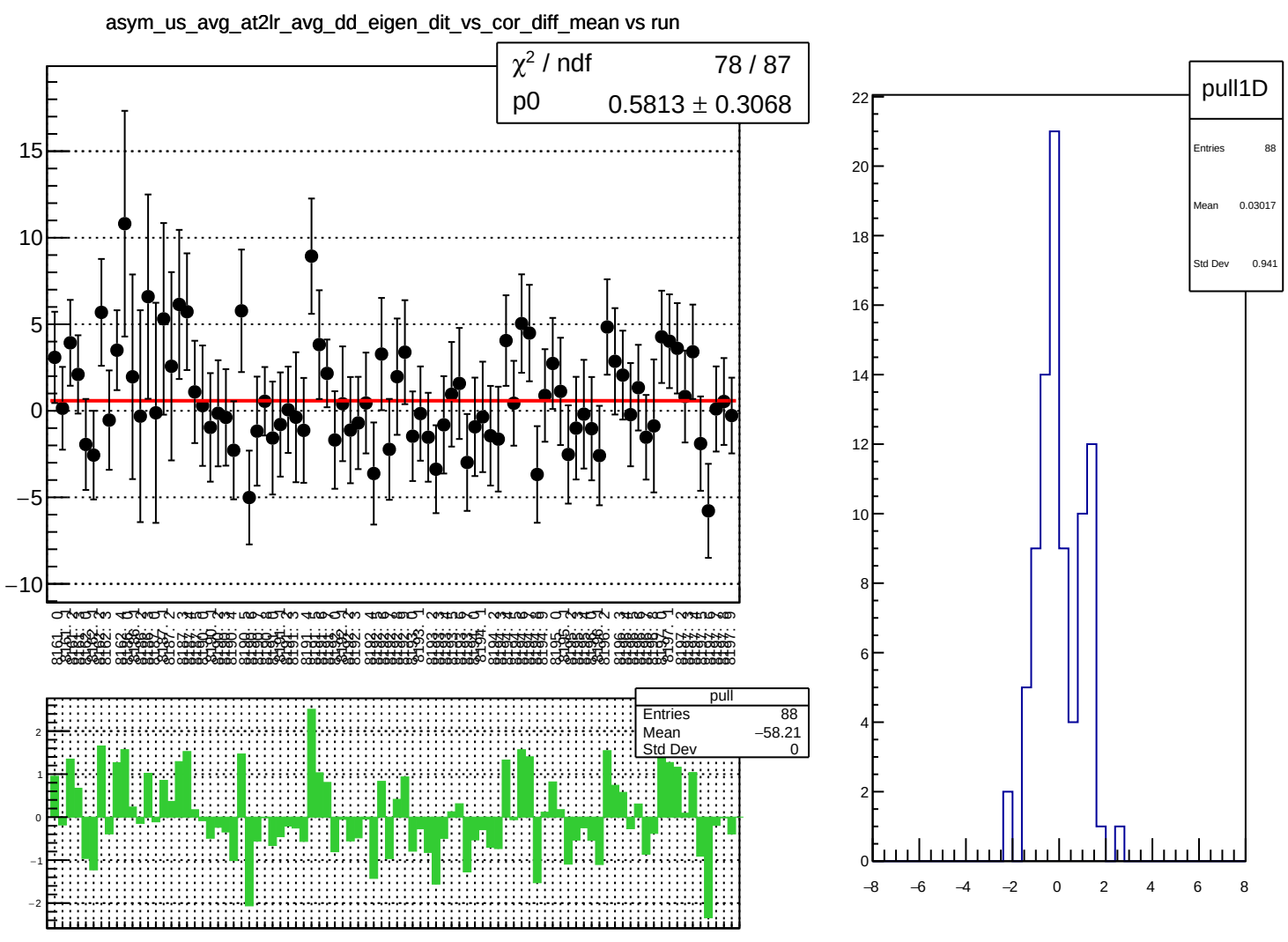

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78 / 87
p0 0.5813 ± 0.3068
pull
Entries 88
Mean −58.21
Std Dev 0
pull1D
Entries 88
Mean 0.03017
Std Dev 0.941

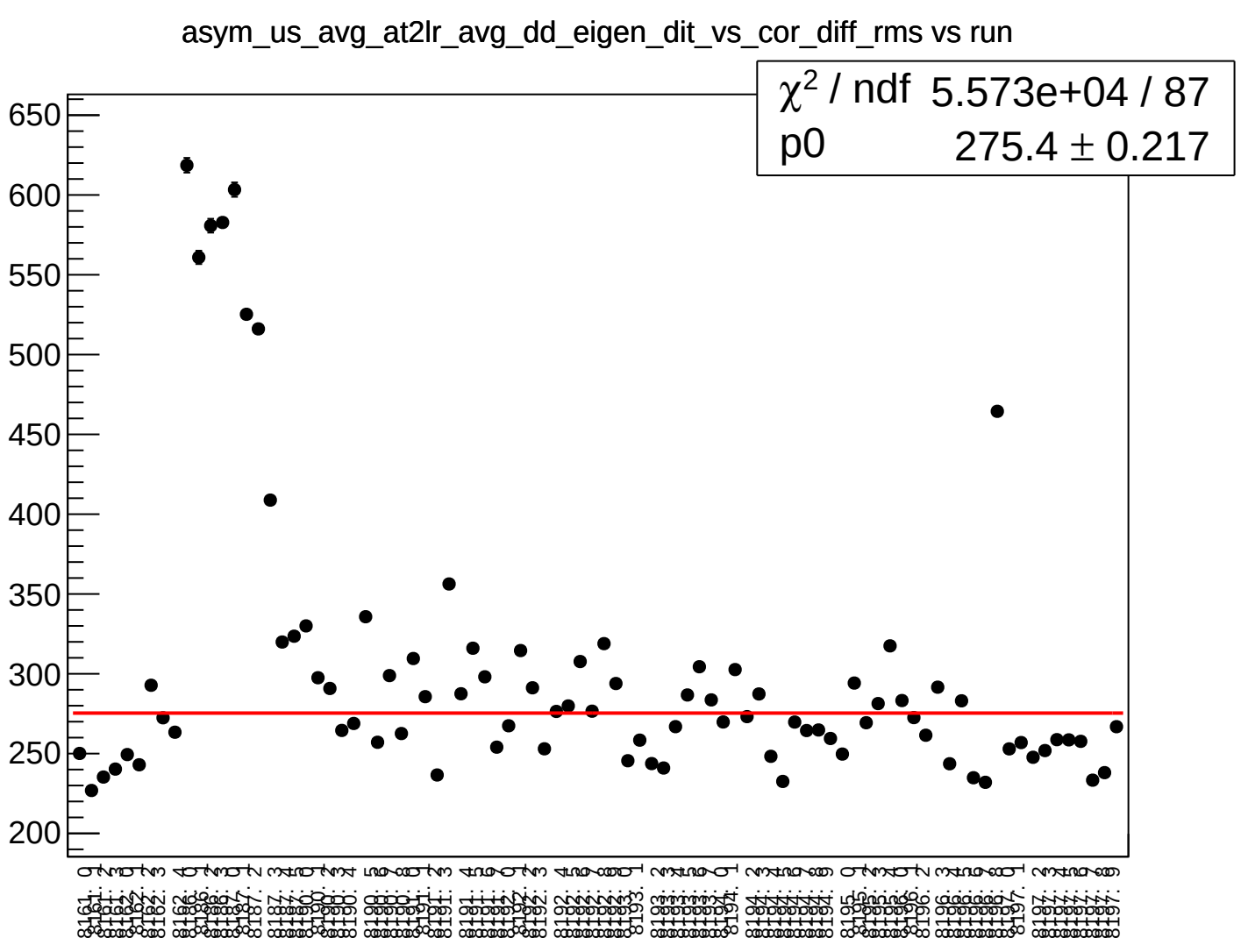

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.573e+04 / 87
p0 275.4 ± 0.217
650
600
550
500
450
400
350
300
250
200

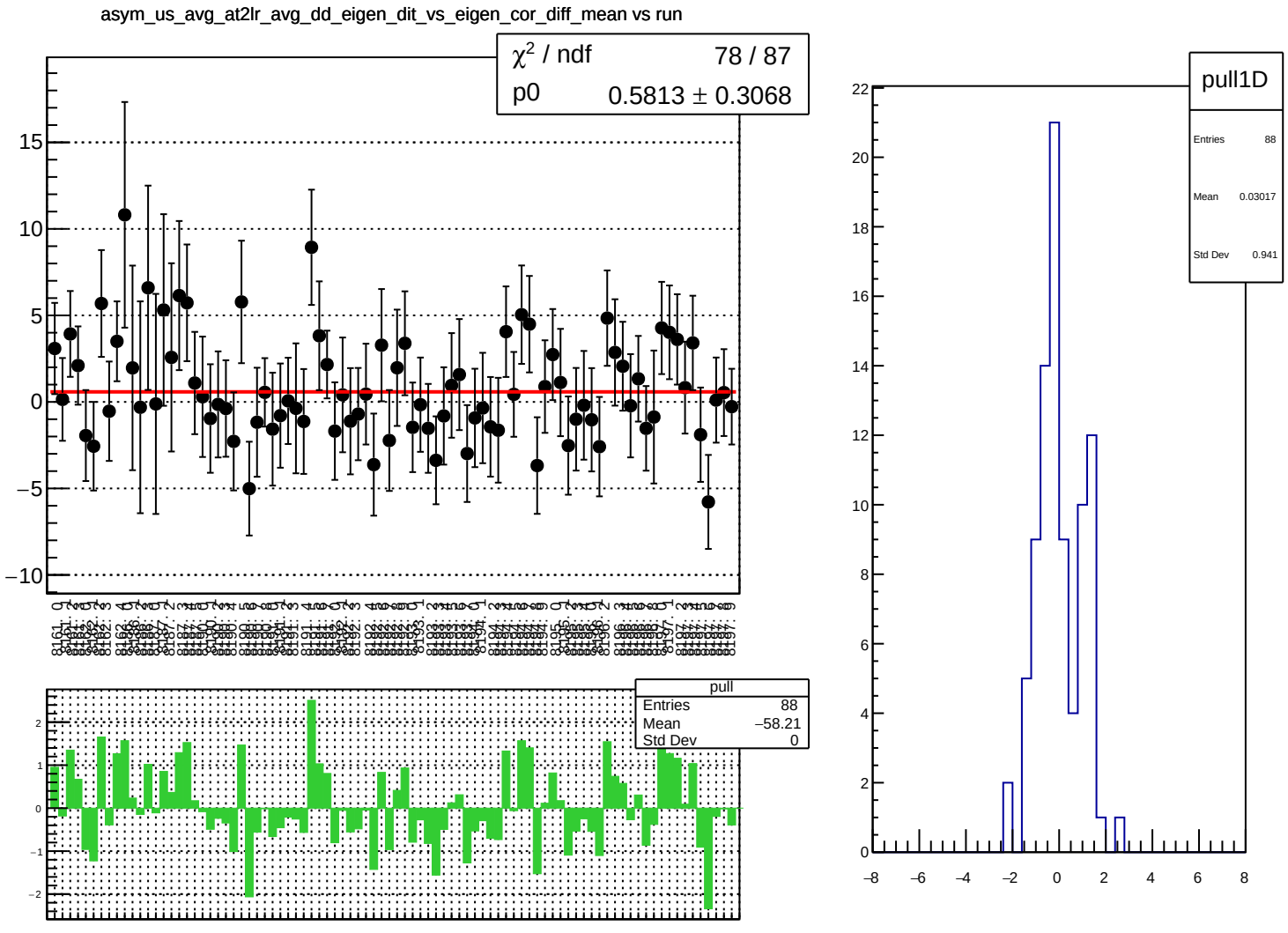

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.31 / 87
p0 −7.132e−06 ± 2.977e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 34.12
Std Dev 17.58
2
1
0
−1
−2

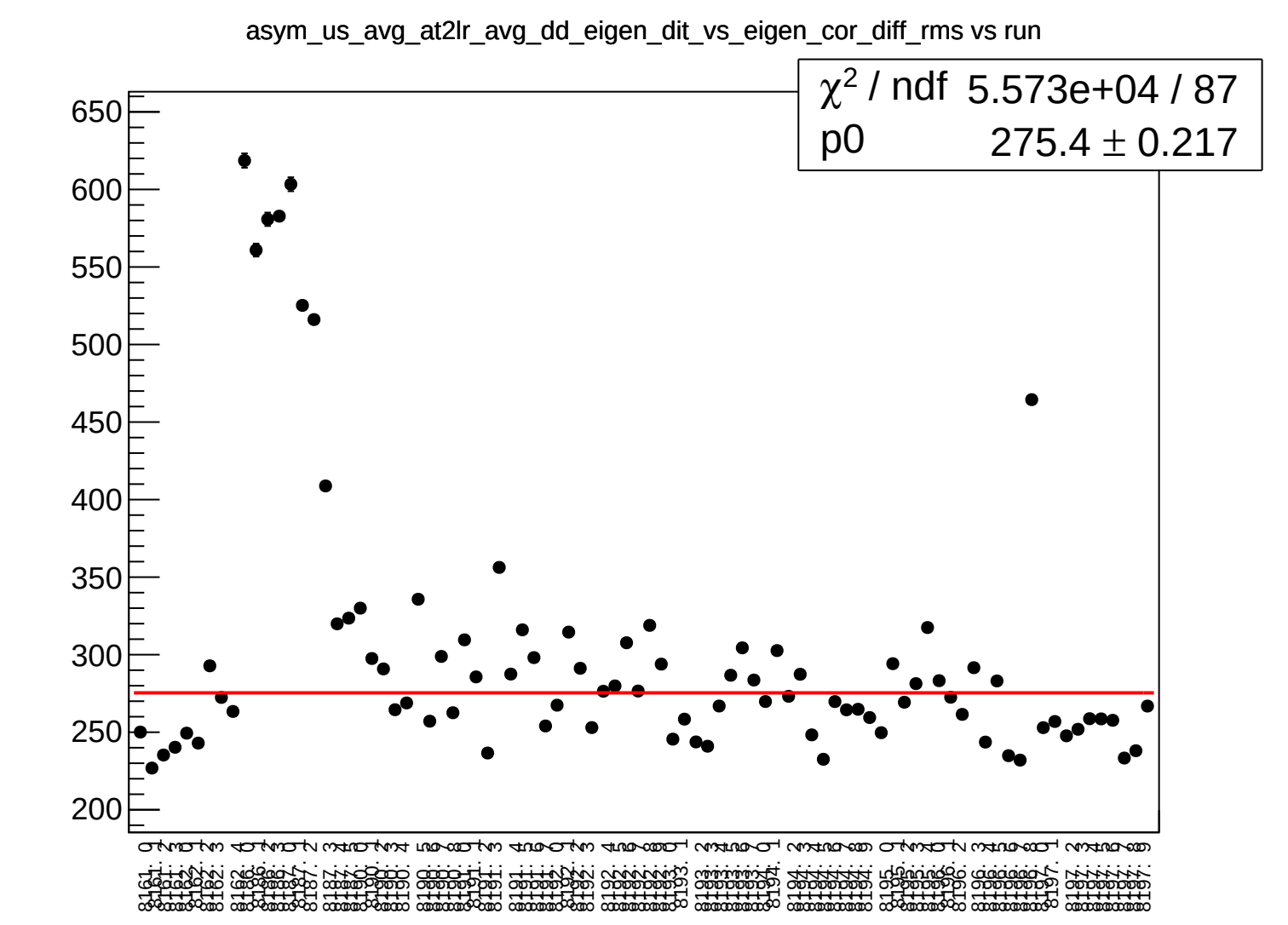

pull1D
Entries 88
Mean −0.07281
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

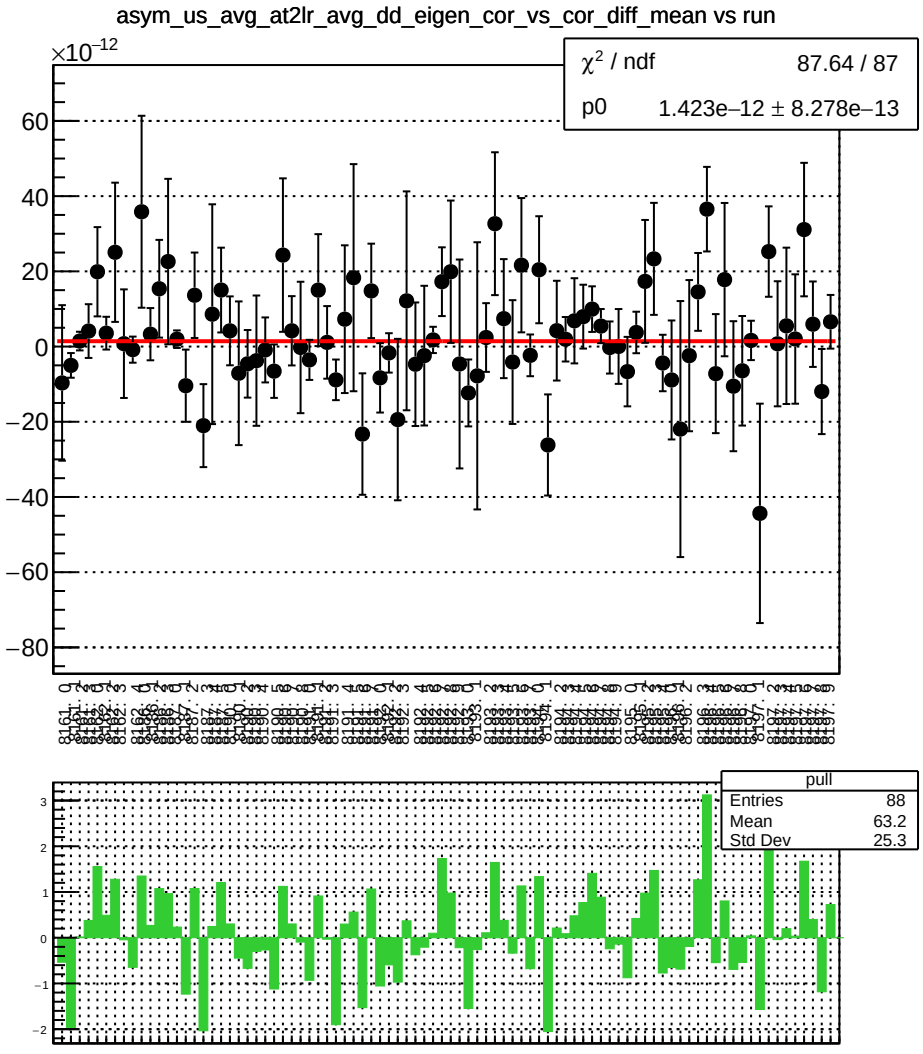

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.174e+05 / 87
p0 0.02257 ± 2.105e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

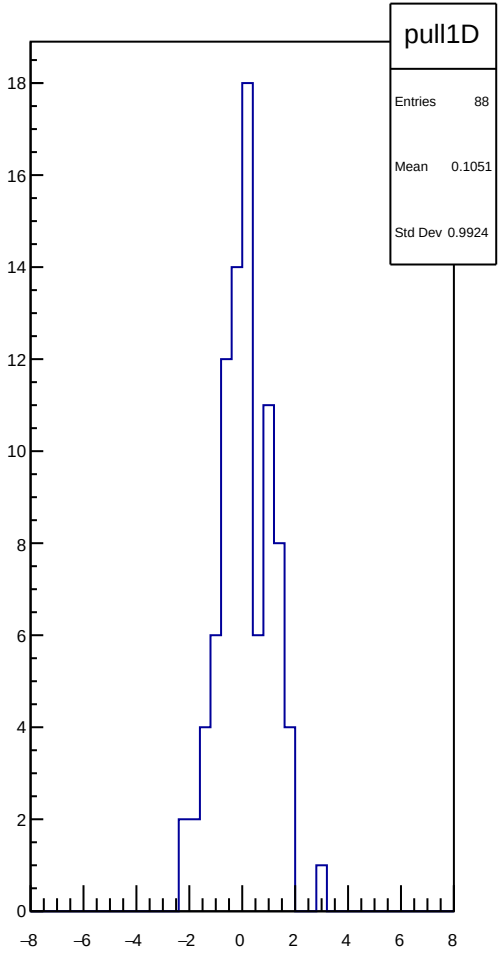

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78 / 87
p0 0.5813 ± 0.3068
pull
Entries 88
Mean −58.21
Std Dev 0
pull1D
Entries 88
Mean 0.03017
Std Dev 0.941

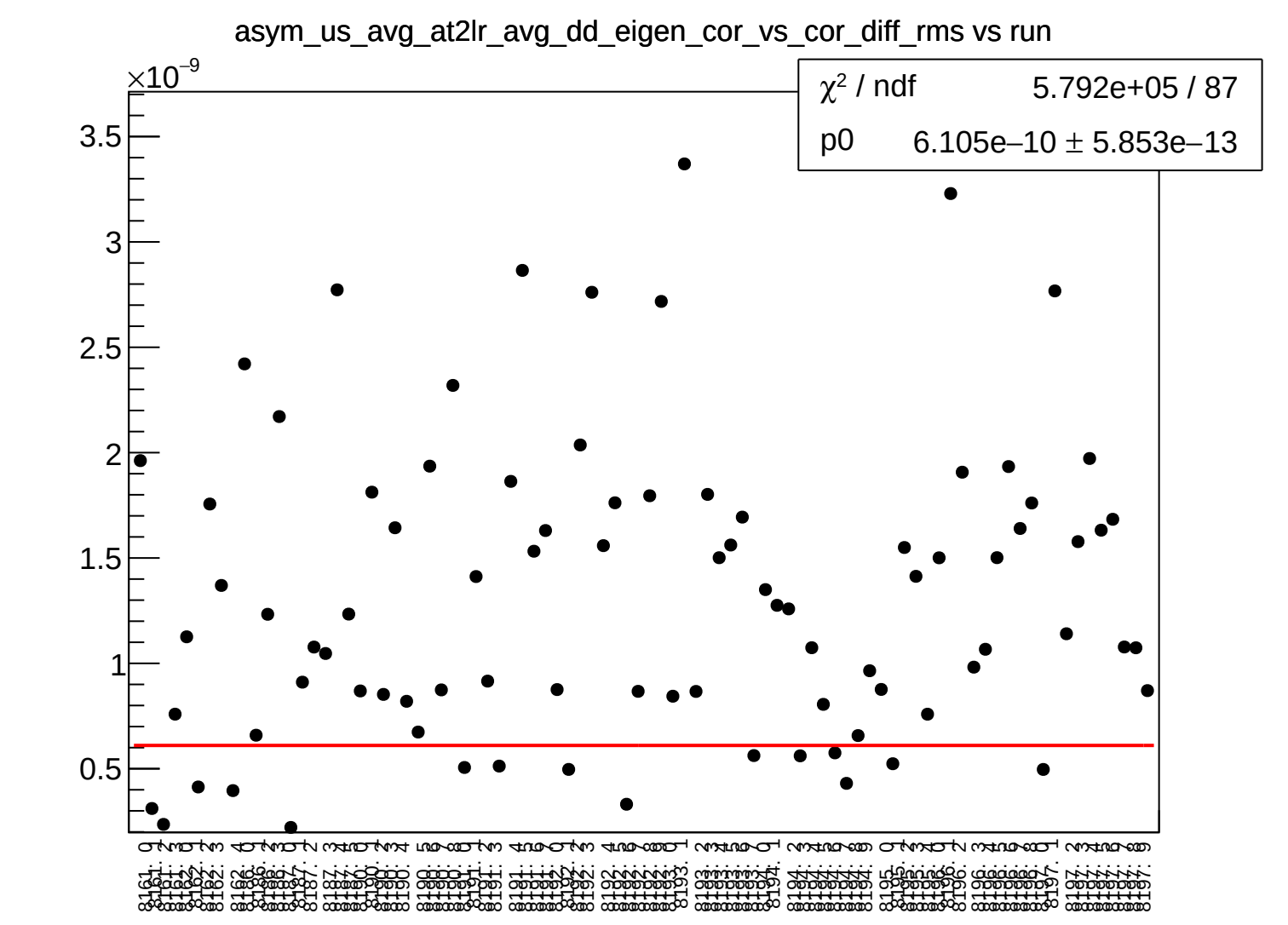

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.573e+04 / 87
p0 275.4 ± 0.217
650
600
550
500
450
400
350
300
250
200

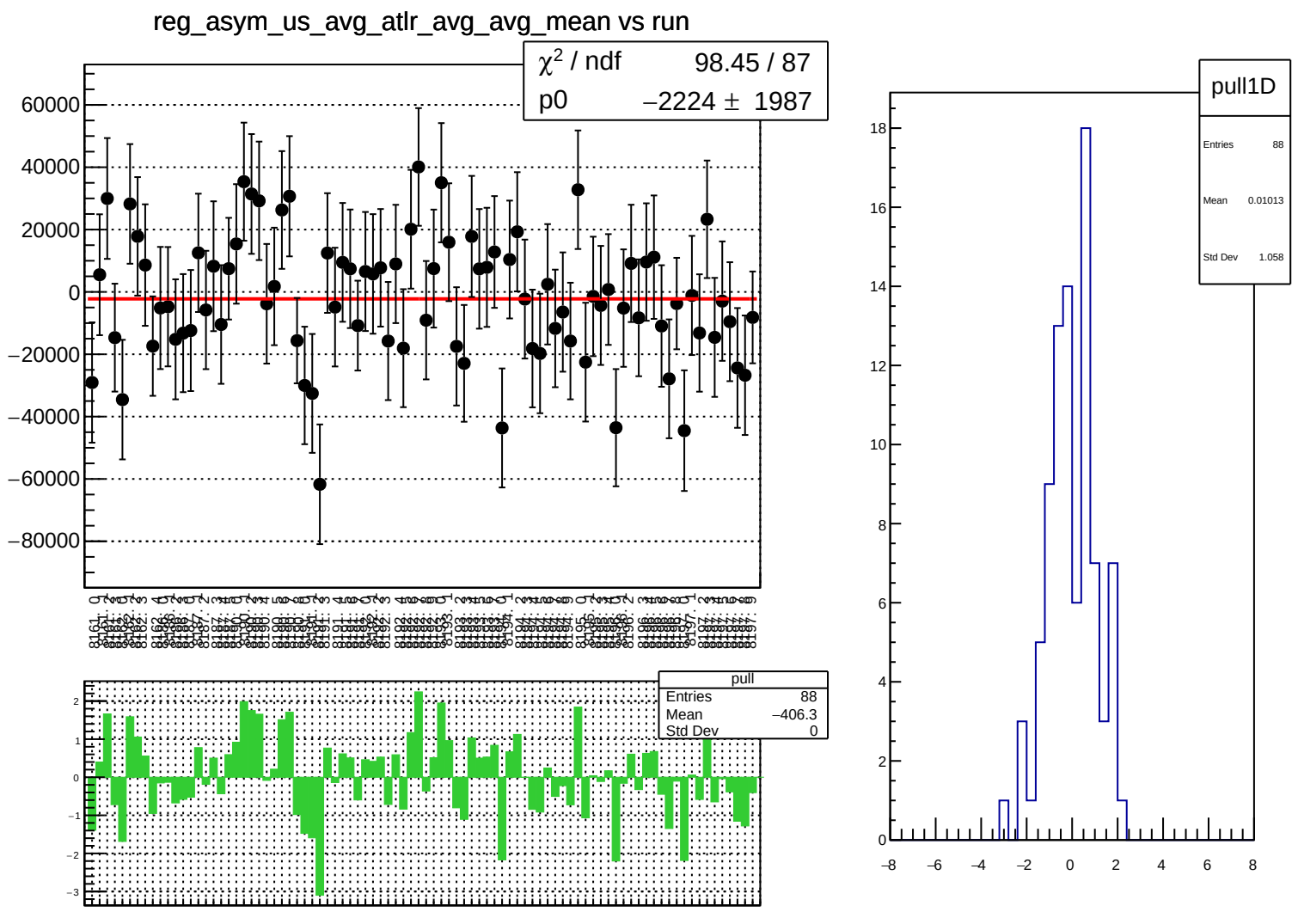

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78 / 87
p0 0.5813 ± 0.3068
pull
Entries 88
Mean −58.21
Std Dev 0
pull1D
Entries 88
Mean 0.03017
Std Dev 0.941

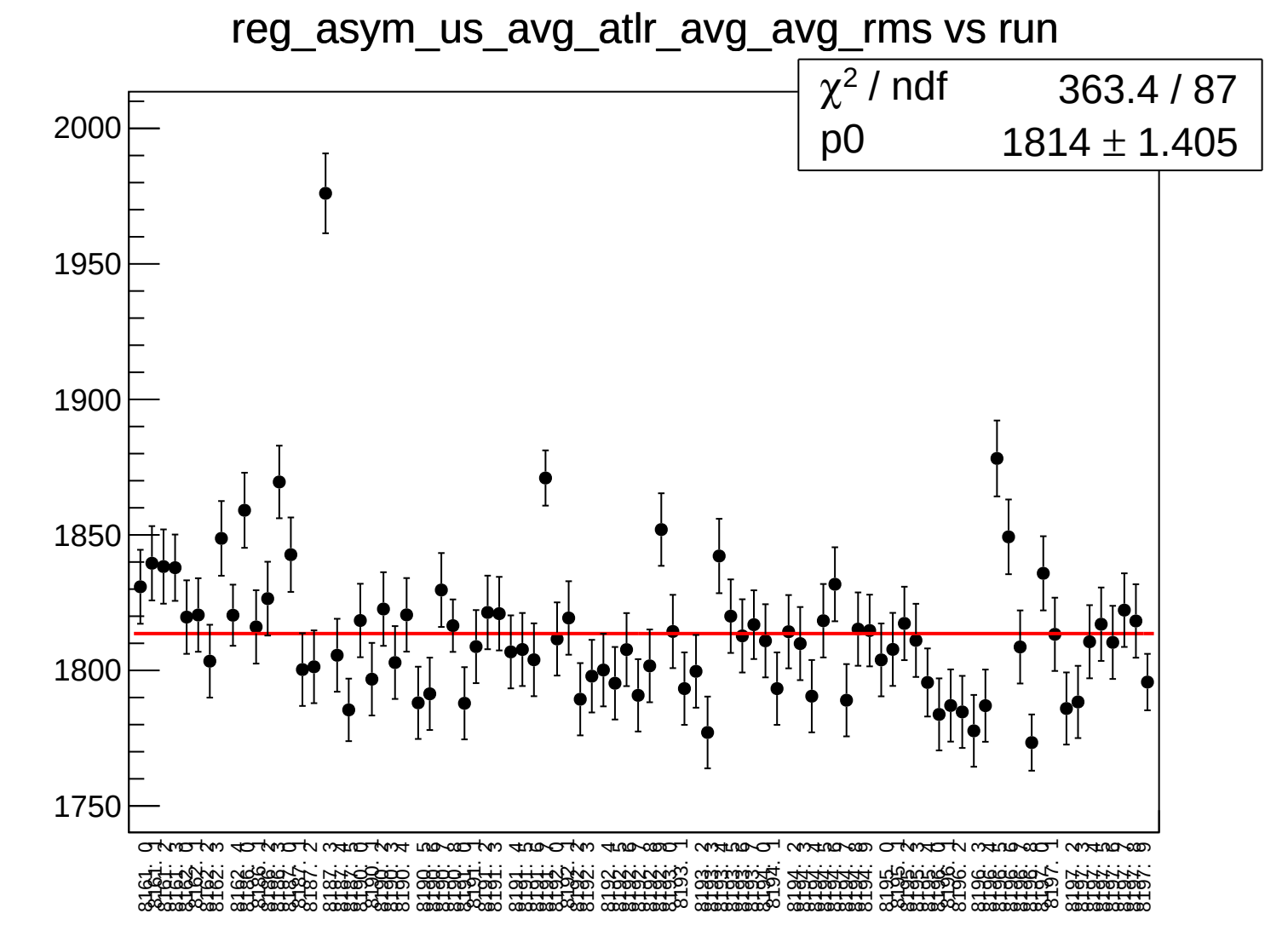

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.573e+04 / 87
p0 275.4 ± 0.217
650
600
550
500
450
400
350
300
250
200

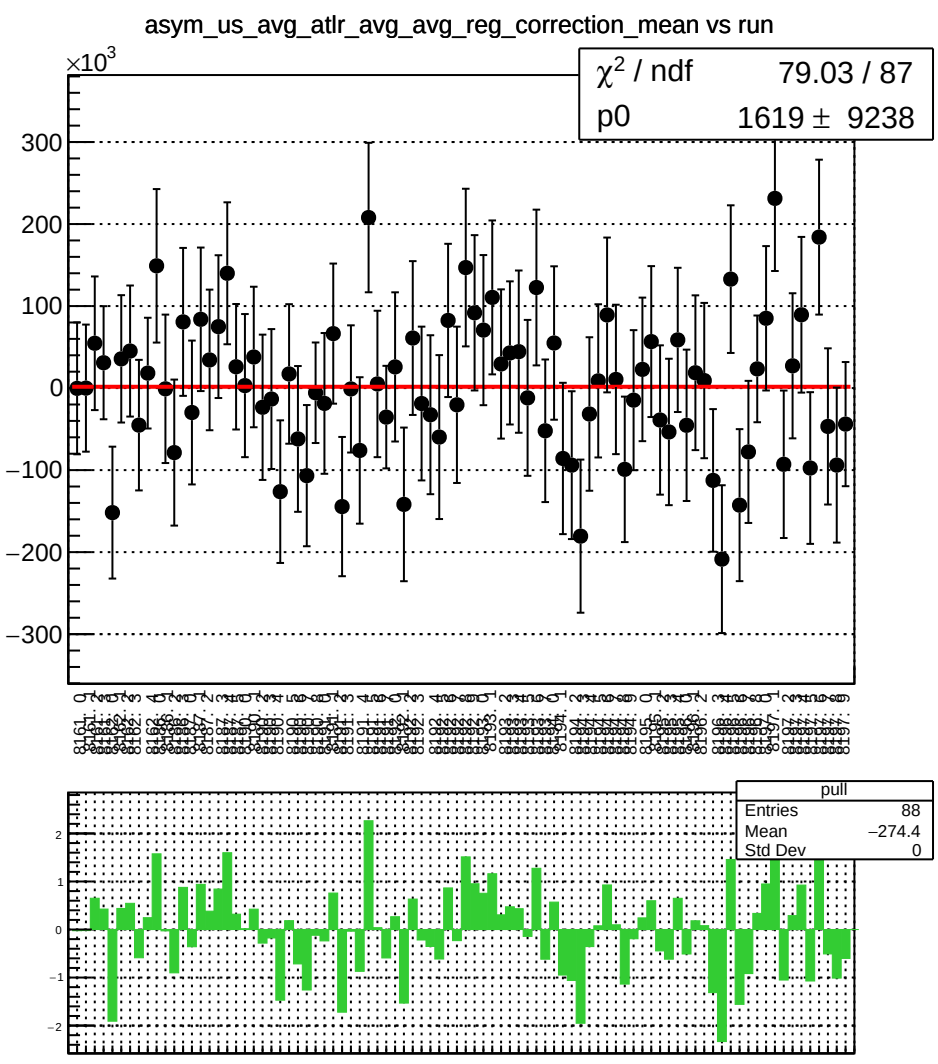

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.64 / 87
p0 1.423e−12 ± 8.278e−13
pull
Entries 88
Mean 63.2
Std Dev 25.3

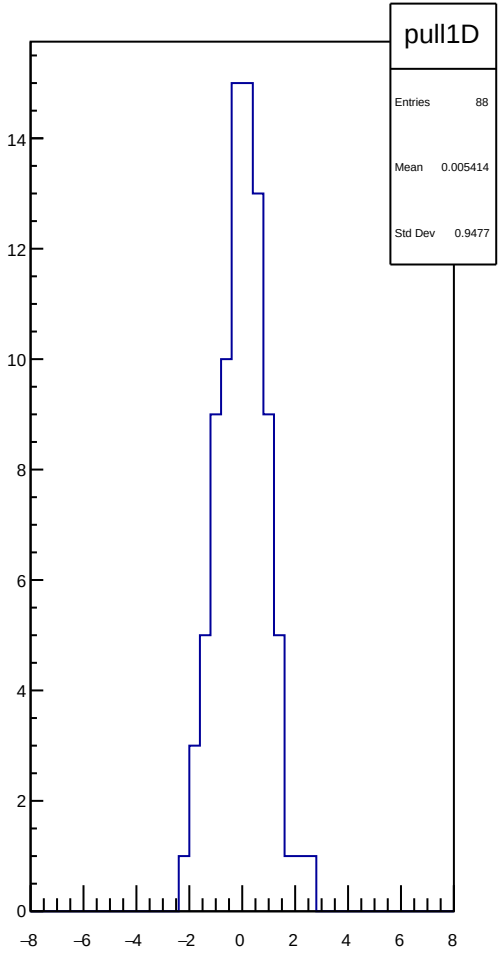

pull1D
Entries 88
Mean 0.1051
Std Dev 0.9924

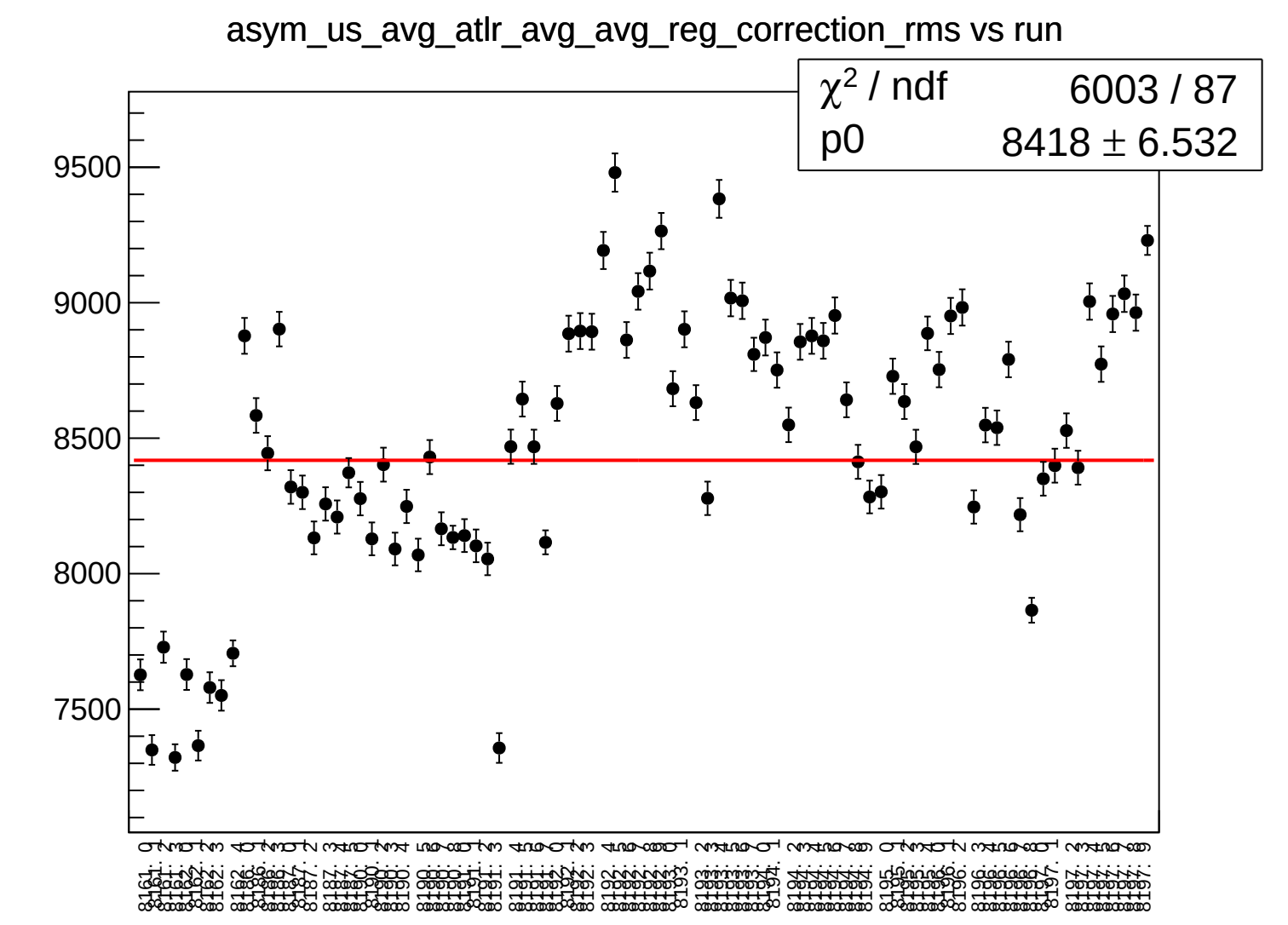

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.792e+05 / 87
p0 6.105e−10 ± 5.853e−13
3.5
3
2.5
2
1.5
1
0.5

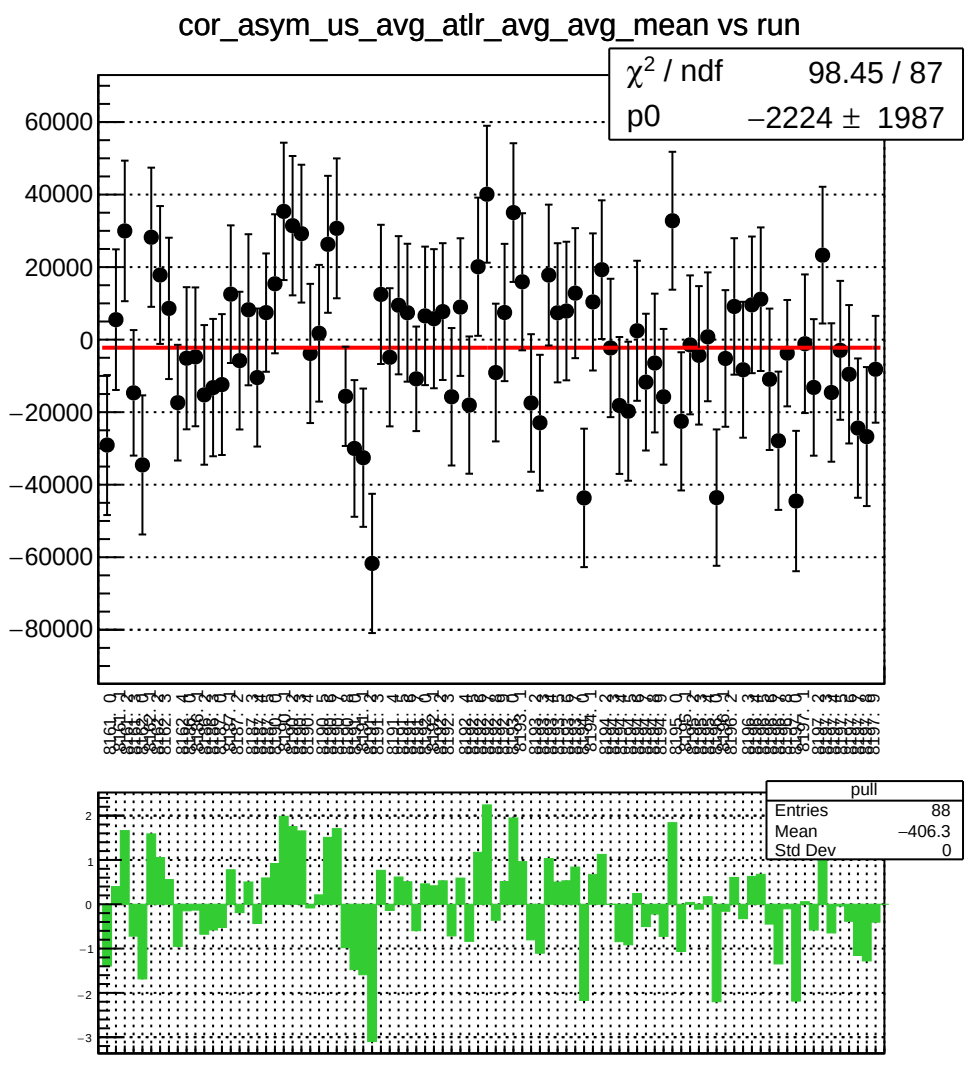

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 98.45 / 87
p0 −2224 ± 1987
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −406.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01013
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

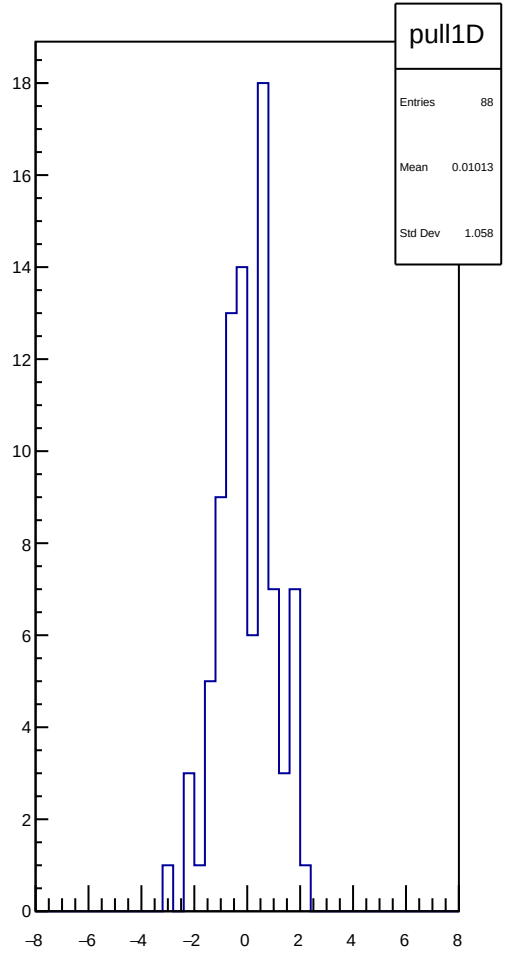

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 363.4 / 87
p0 1814 ± 1.405
2000
1950
1900
1850
1800
1750

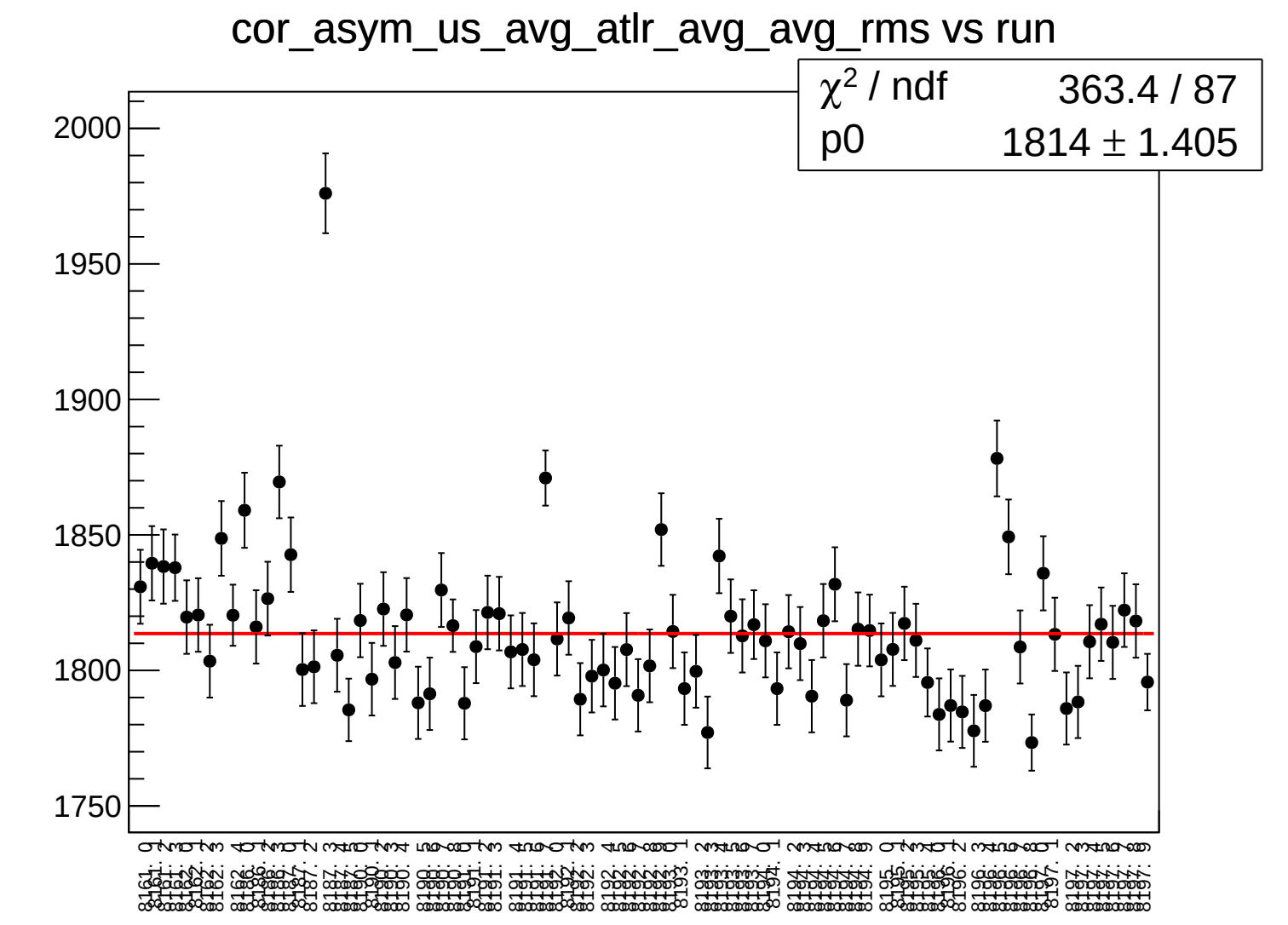

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 79.03 / 87
p0 1619 ± 9238
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −274.4
Std Dev 0
2
1
0
−1
−2

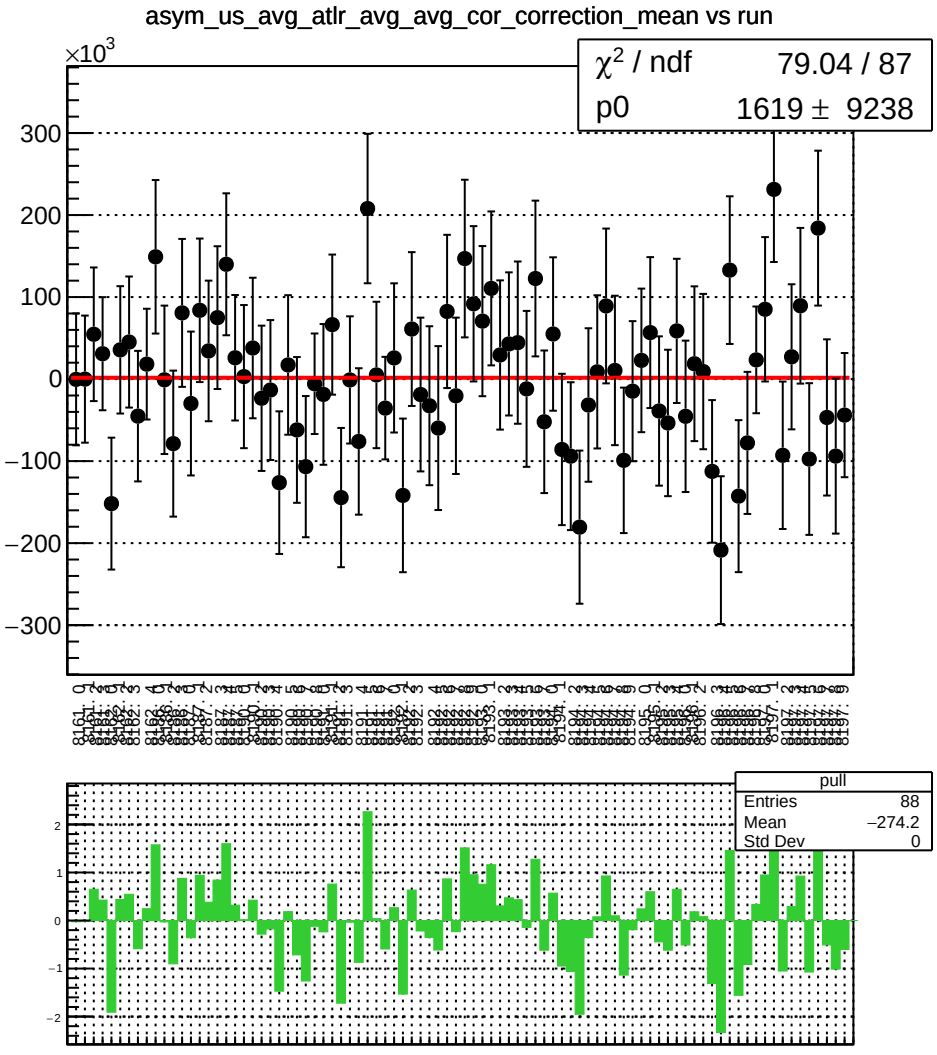

pull1D
Entries 88
Mean 0.005414
Std Dev 0.9477
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

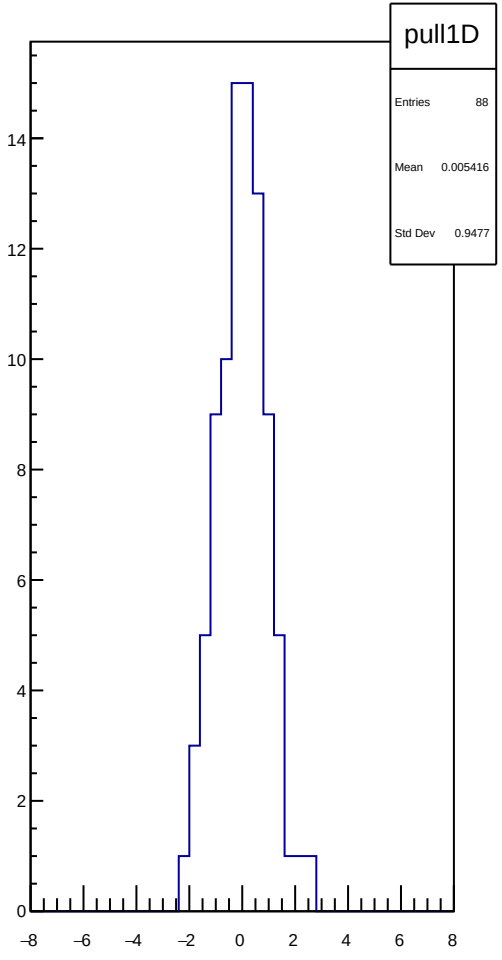

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 6003 / 87
p0 8418 ± 6.532
9500
9000
8500
8000
7500

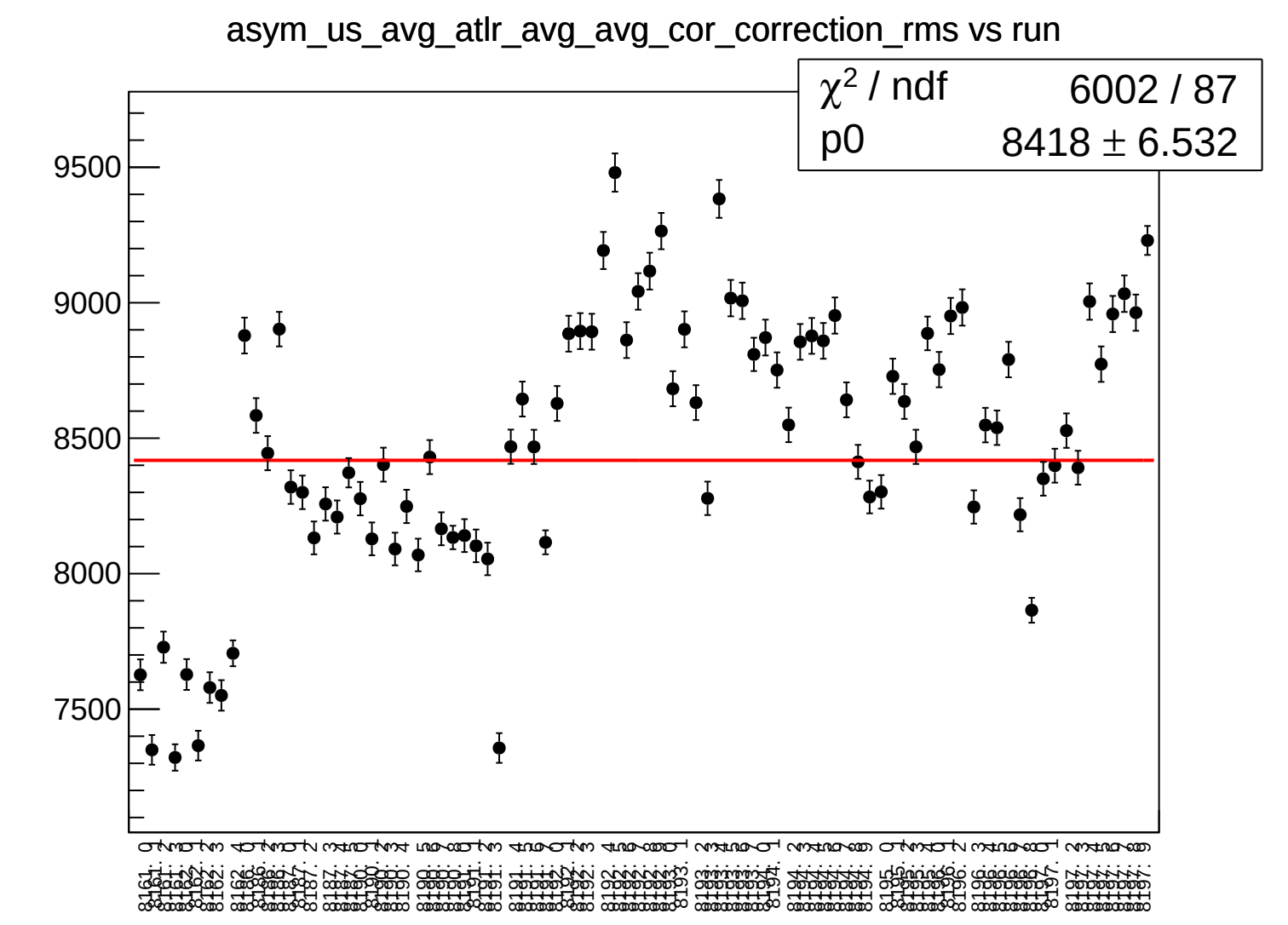

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 98.45 / 87
p0 −2224 ± 1987
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −406.3
Std Dev 0
2
1
0
−1
−2
−3

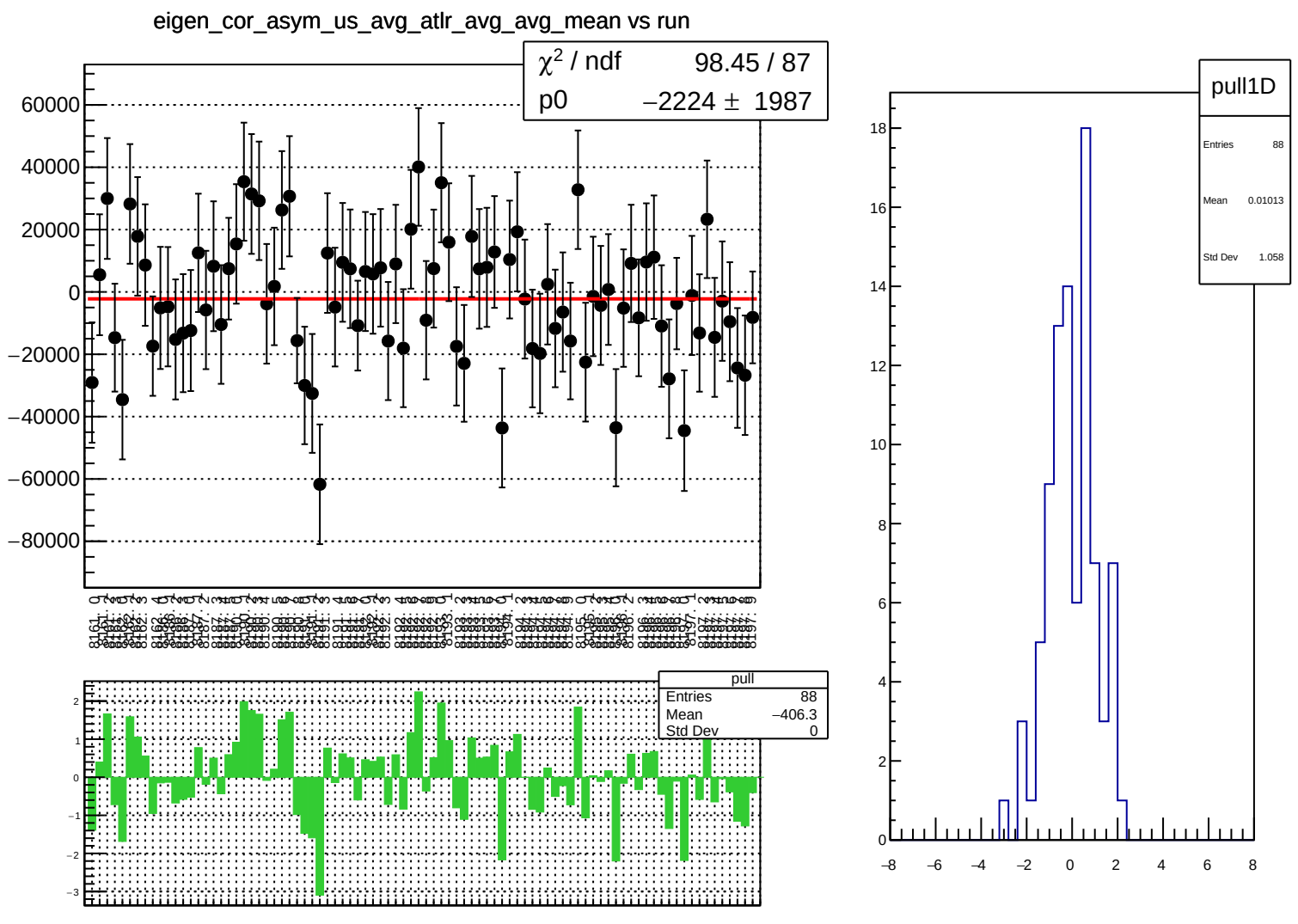

pull1D
Entries 88
Mean 0.01013
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

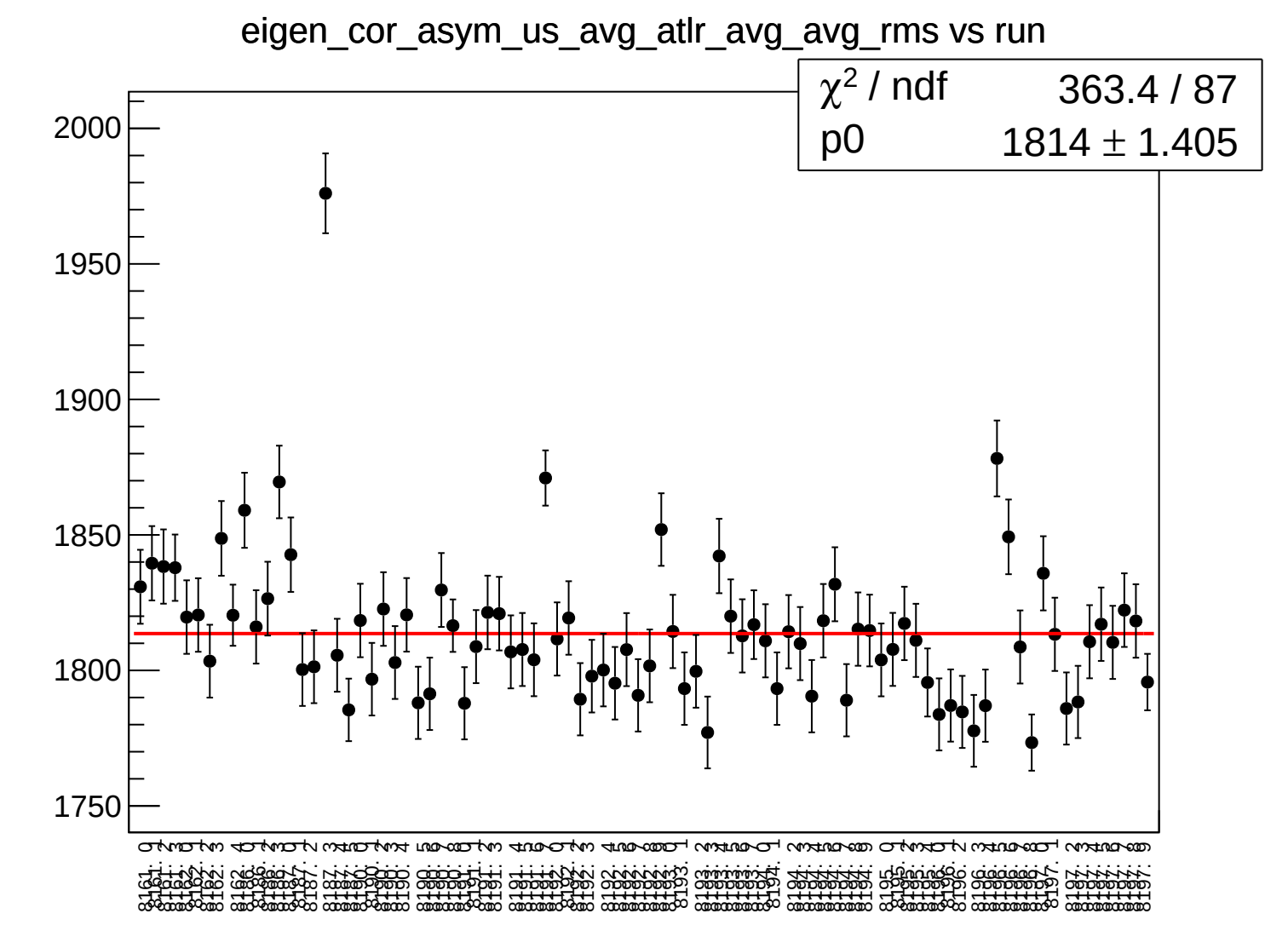

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 363.4 / 87
p0 1814 ± 1.405
2000
1950
1900
1850
1800
1750

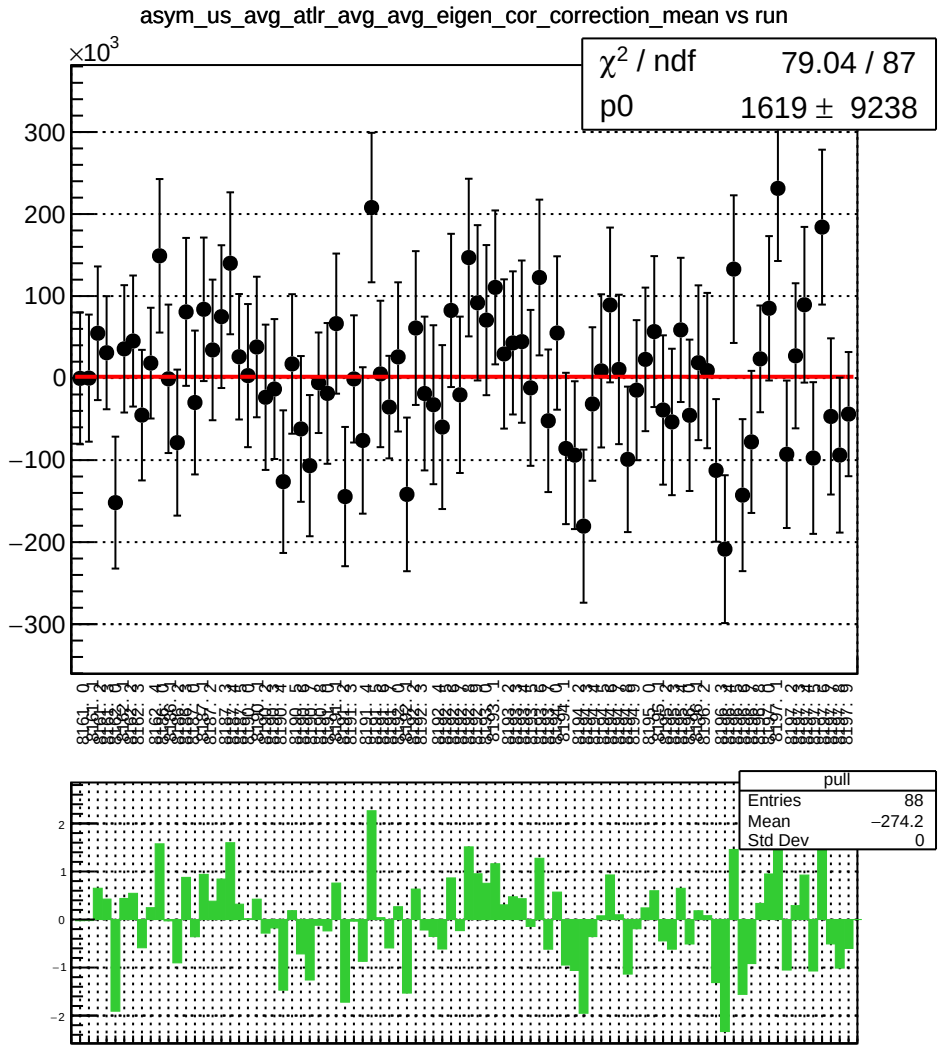

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.04 / 87
p0 1619 ± 9238
pull
Entries 88
Mean −274.2
Std Dev 0

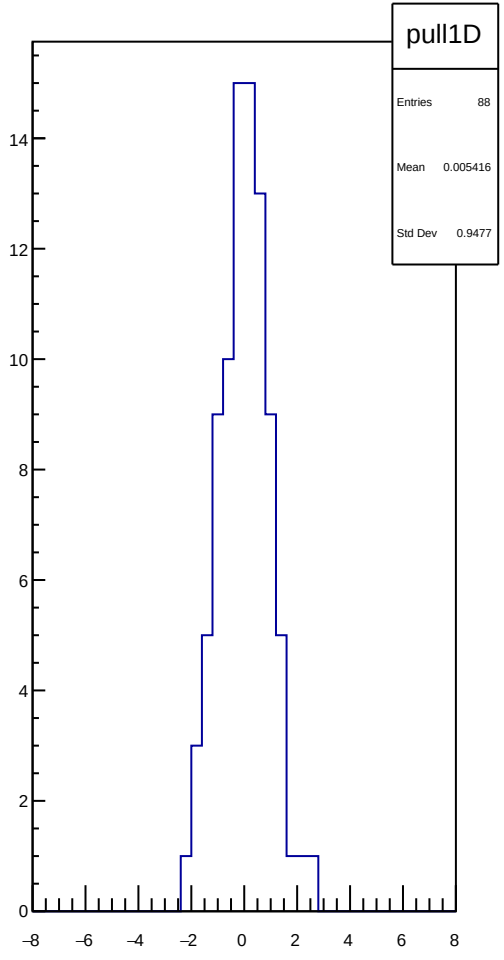

pull1D
Entries 88
Mean 0.005416
Std Dev 0.9477

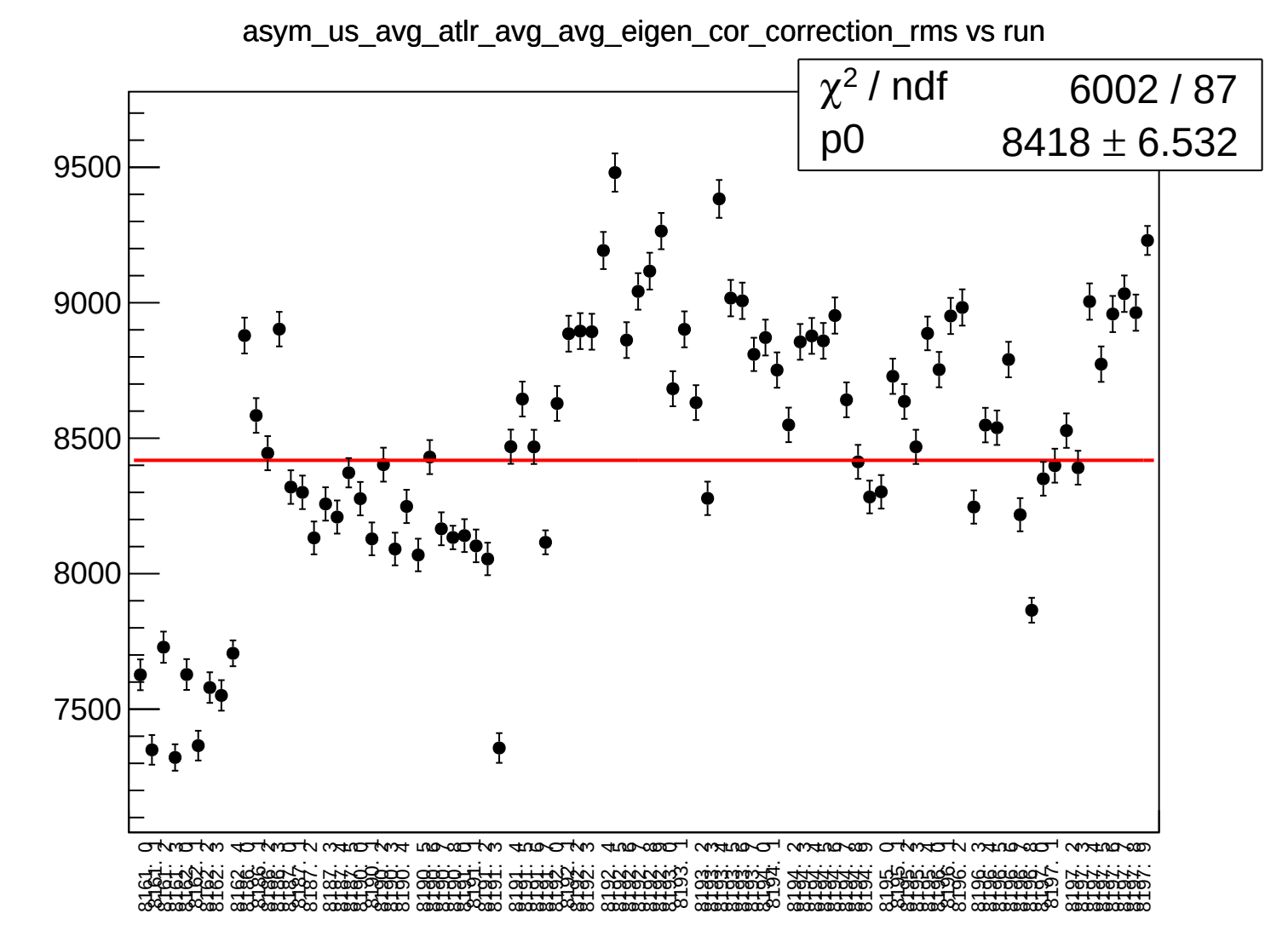

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 6002 / 87
p0 8418 ± 6.532
9500
9000
8500
8000
7500

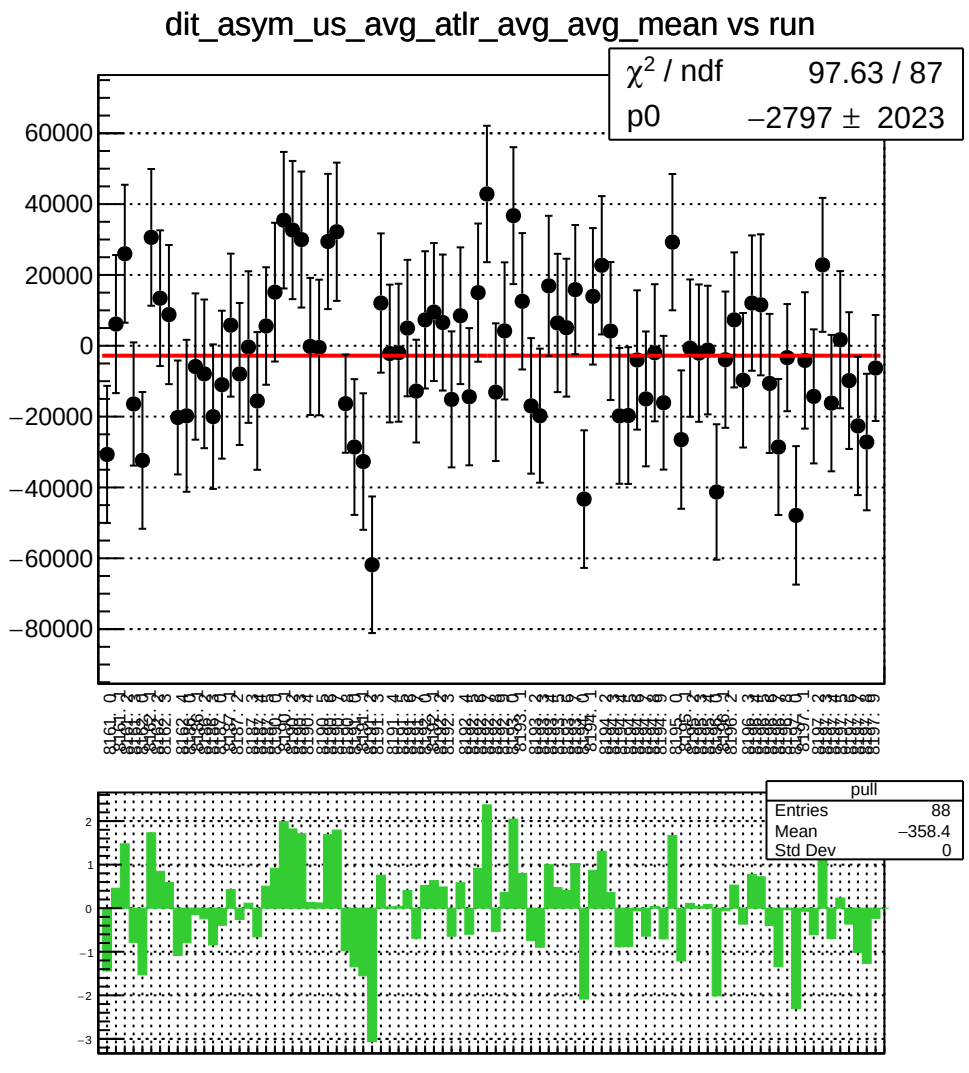

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 98.45 / 87
p0 −2224 ± 1987
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −406.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01013
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

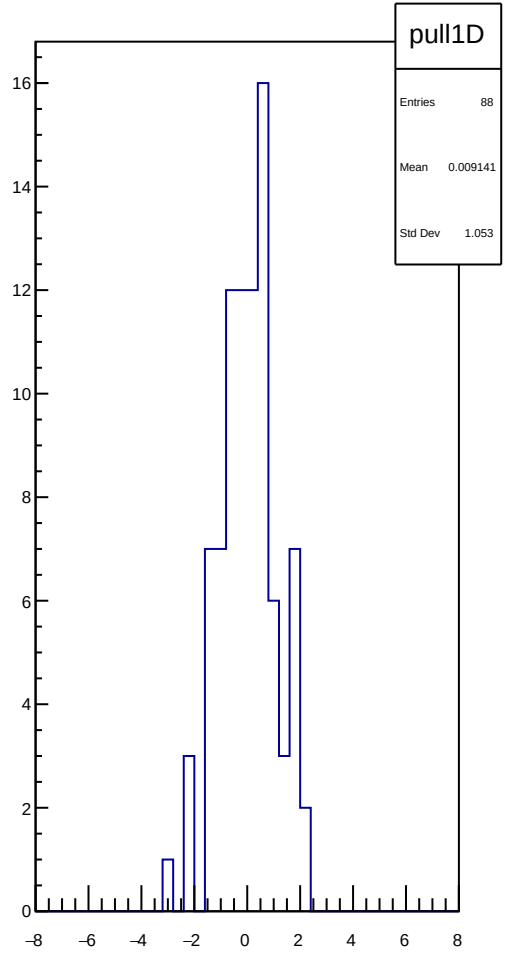

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 363.4 / 87
p0 1814 ± 1.405
2000
1950
1900
1850
1800
1750

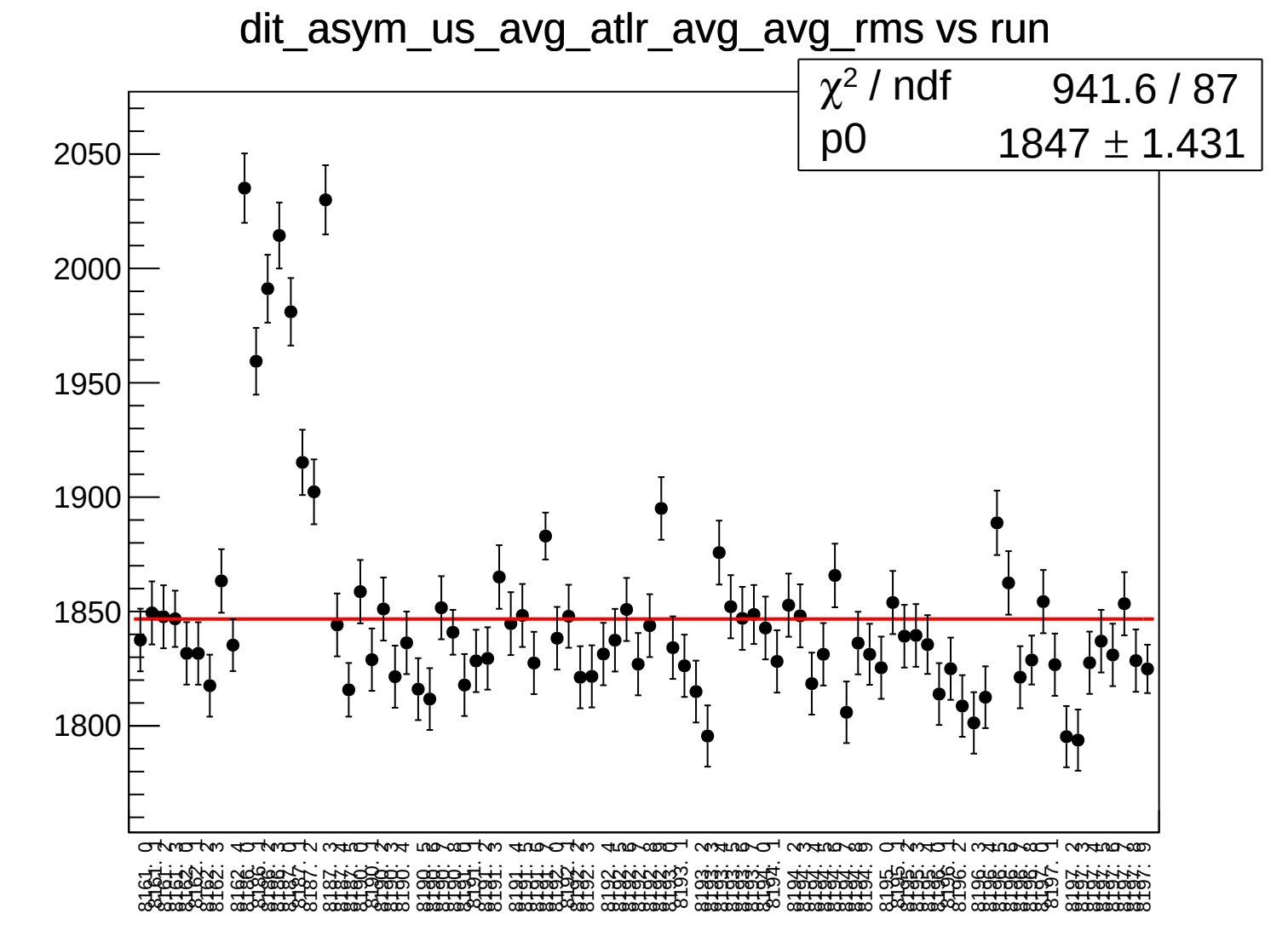

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.04 / 87
p0 1619 ± 9238
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −274.2
Std Dev 0
2
1
0
−1
−2

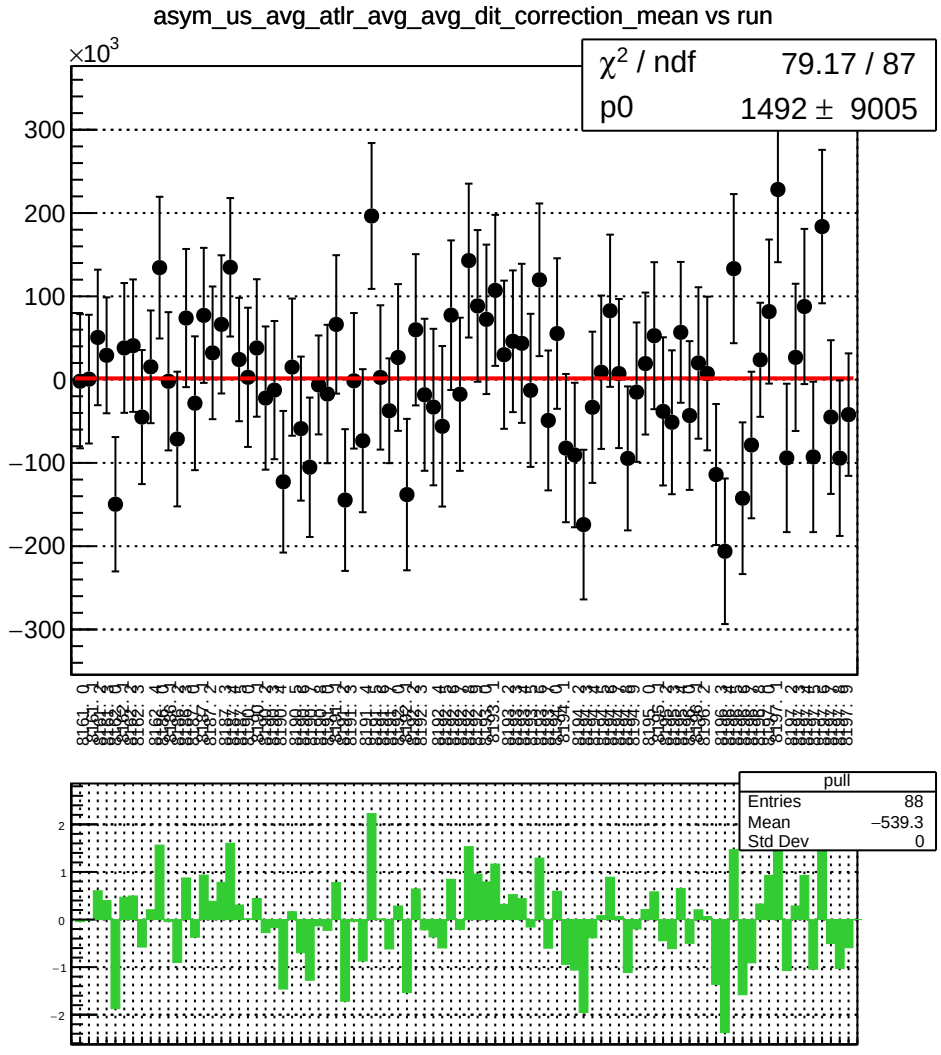

pull1D
Entries 88
Mean 0.005416
Std Dev 0.9477
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

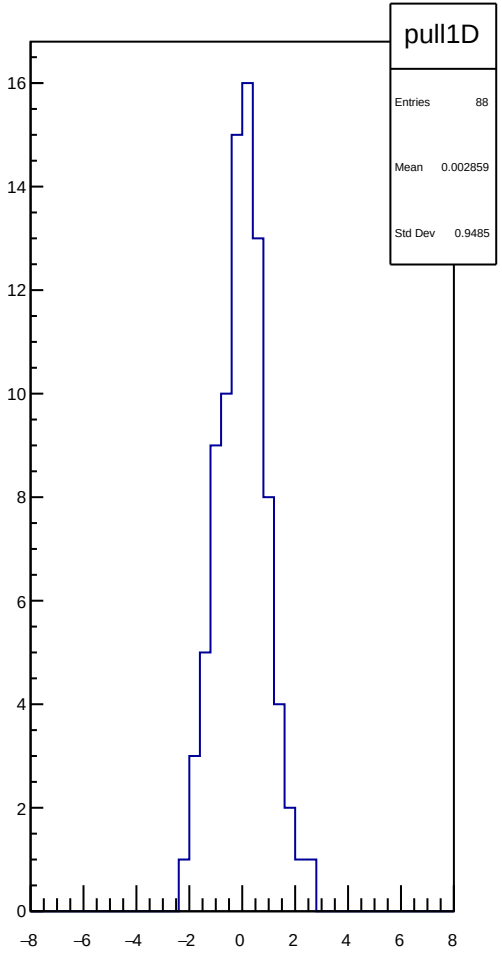

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6002 / 87
p0 8418 ± 6.532
9500
9000
8500
8000
7500

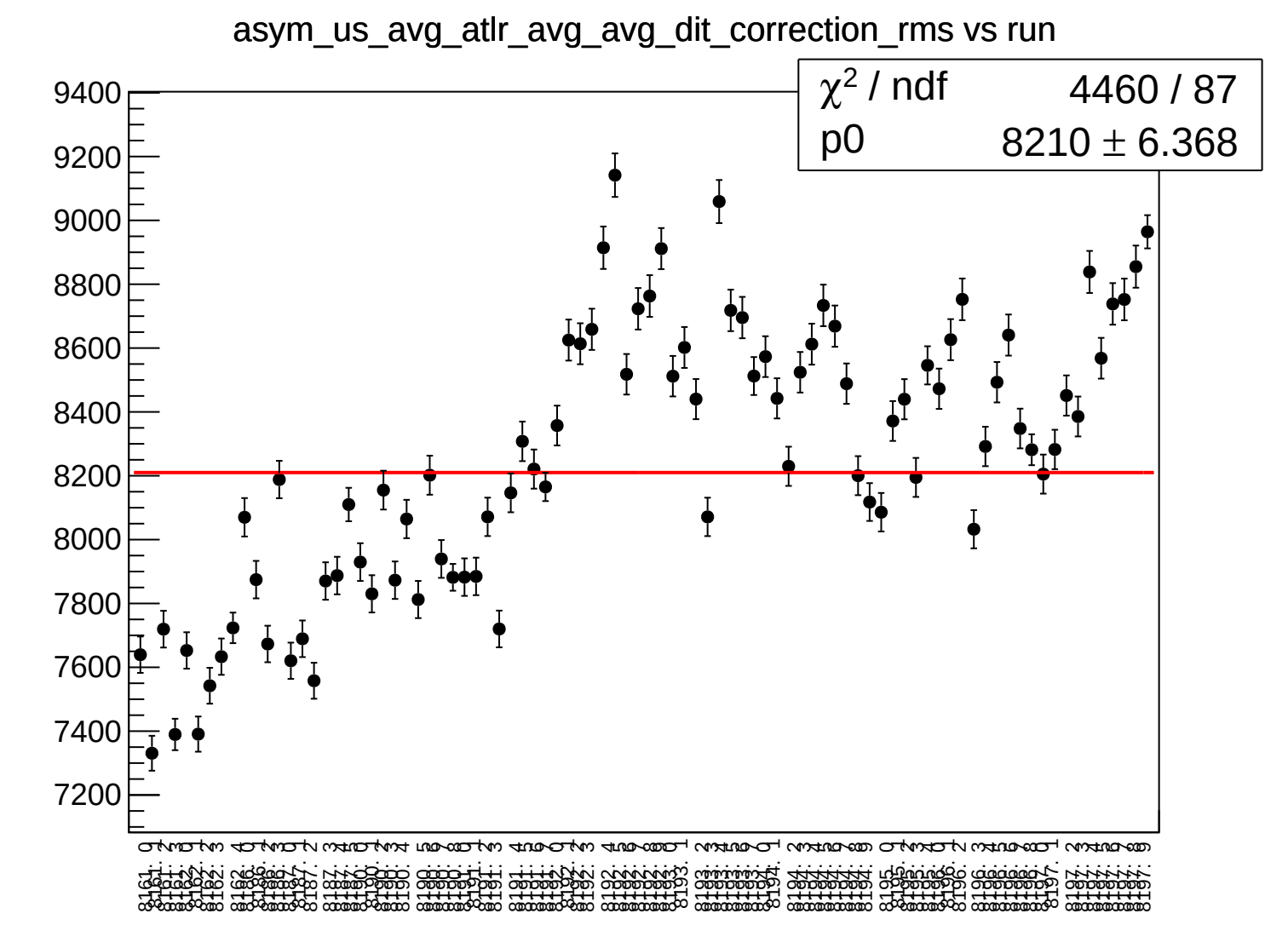

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 97.63 / 87
p0 −2797 ± 2023
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −358.4
Std Dev 0
2
1
0
−1
−2
−3

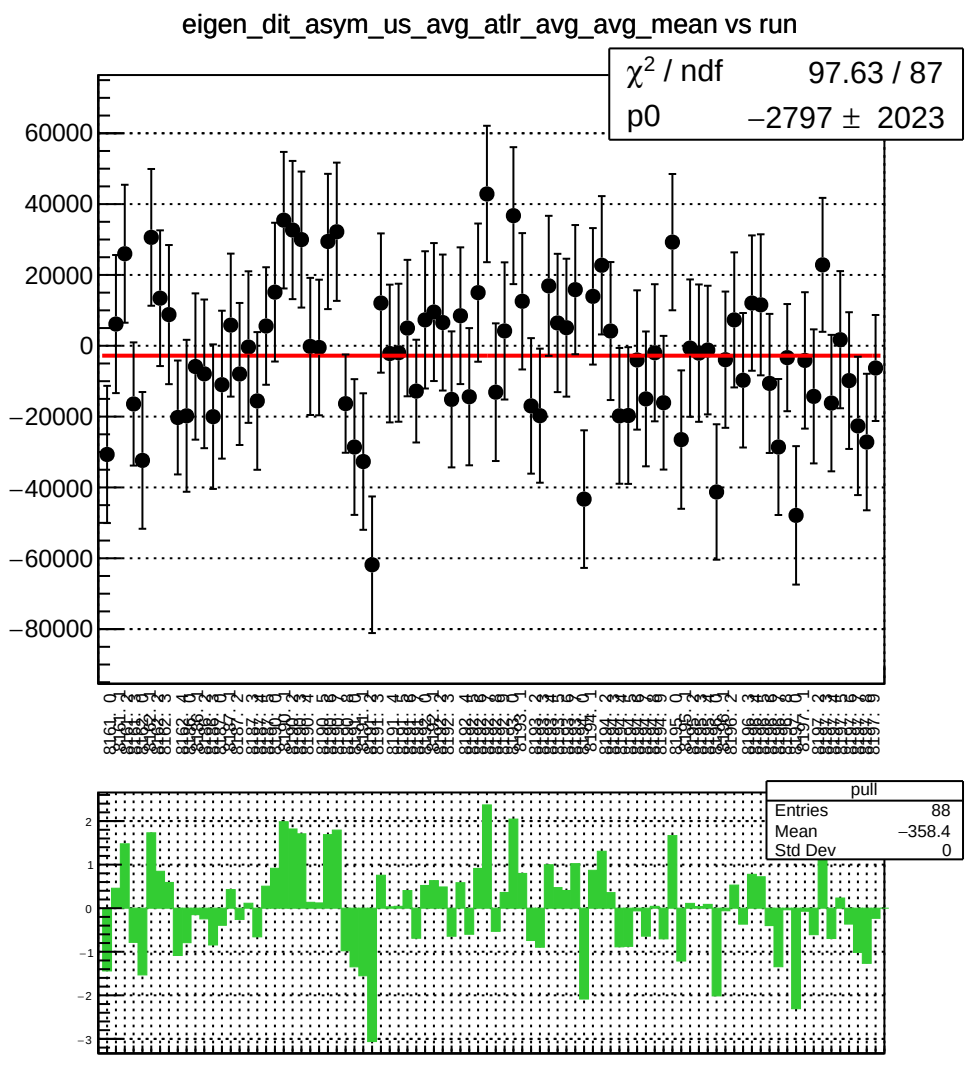

pull1D
Entries 88
Mean 0.009141
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

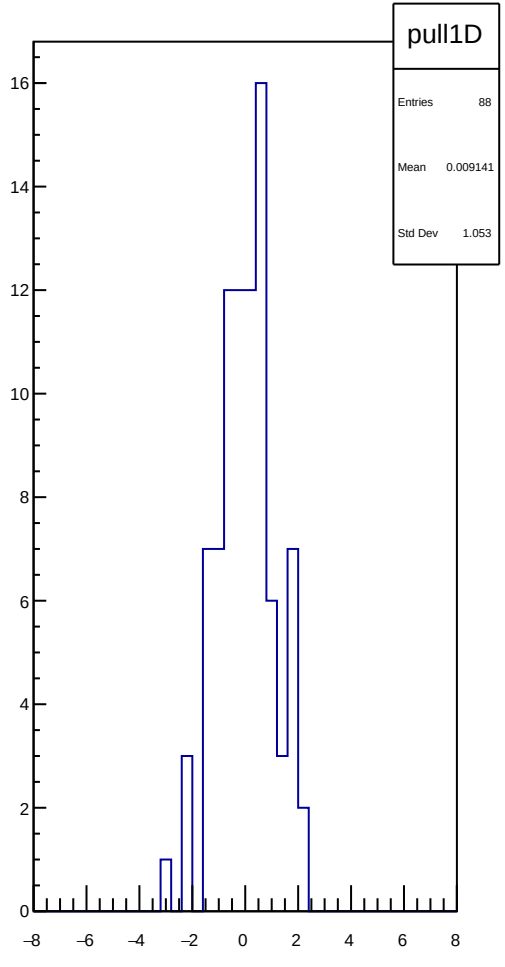

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 941.6 / 87
p0 1847 ± 1.431
2050
2000
1950
1900
1850
1800

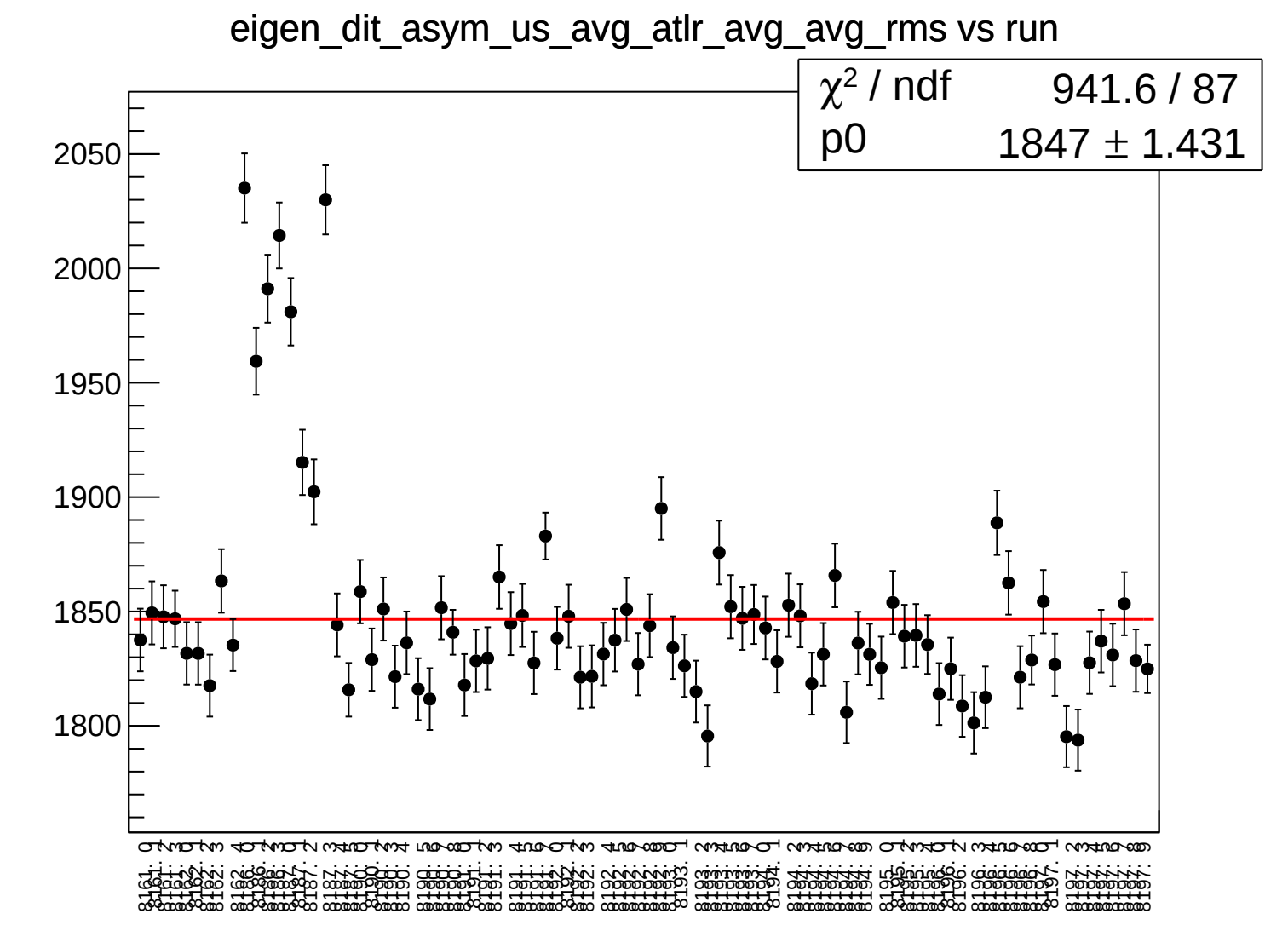

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 79.17 / 87
p0 1492 ± 9005
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −539.3
Std Dev 0
2
1
0
−1
−2

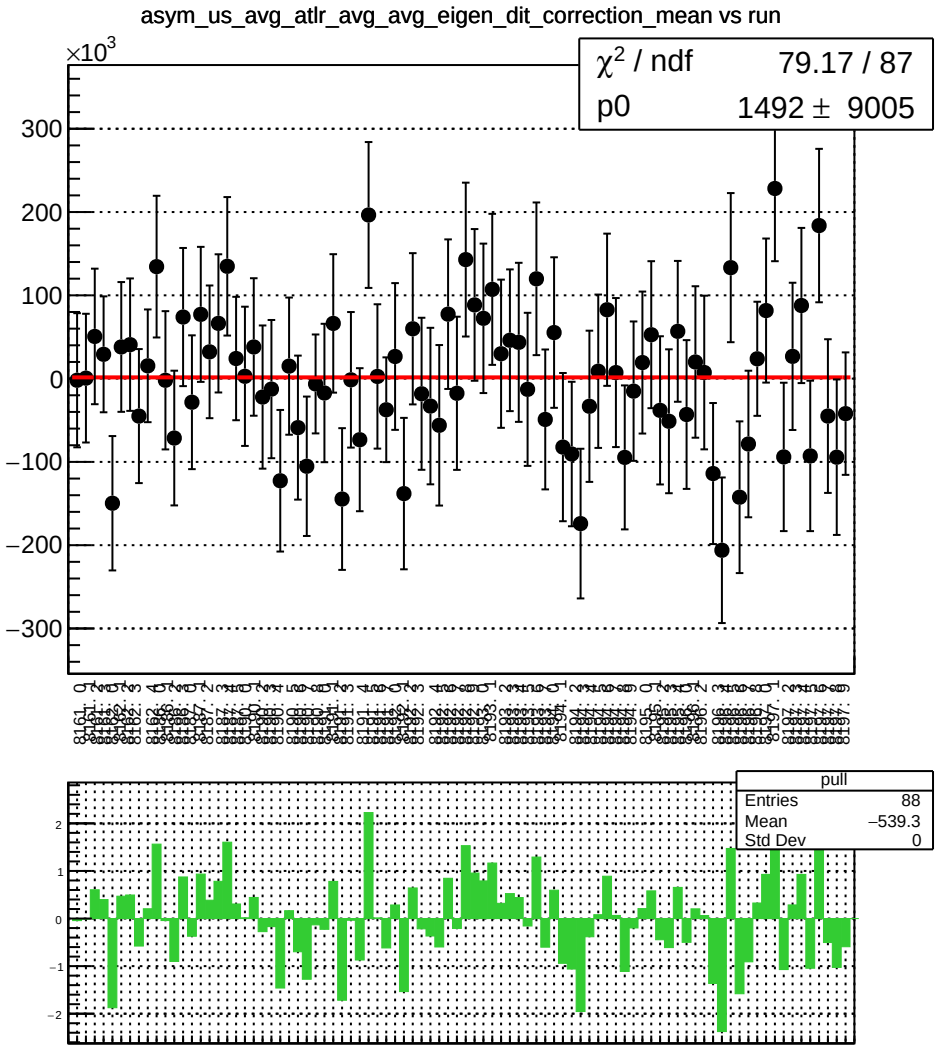

pull1D
Entries 88
Mean 0.002859
Std Dev 0.9485
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

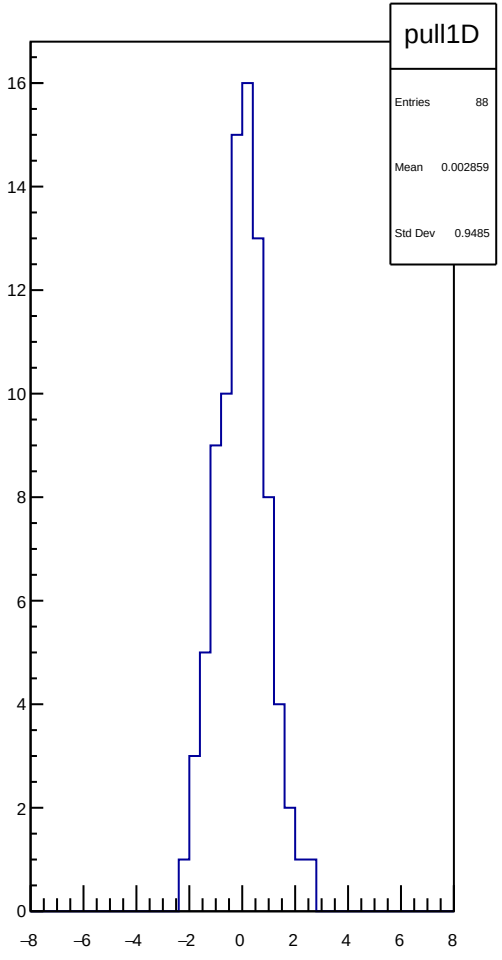

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 4460 / 87
p0 8210 ± 6.368
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

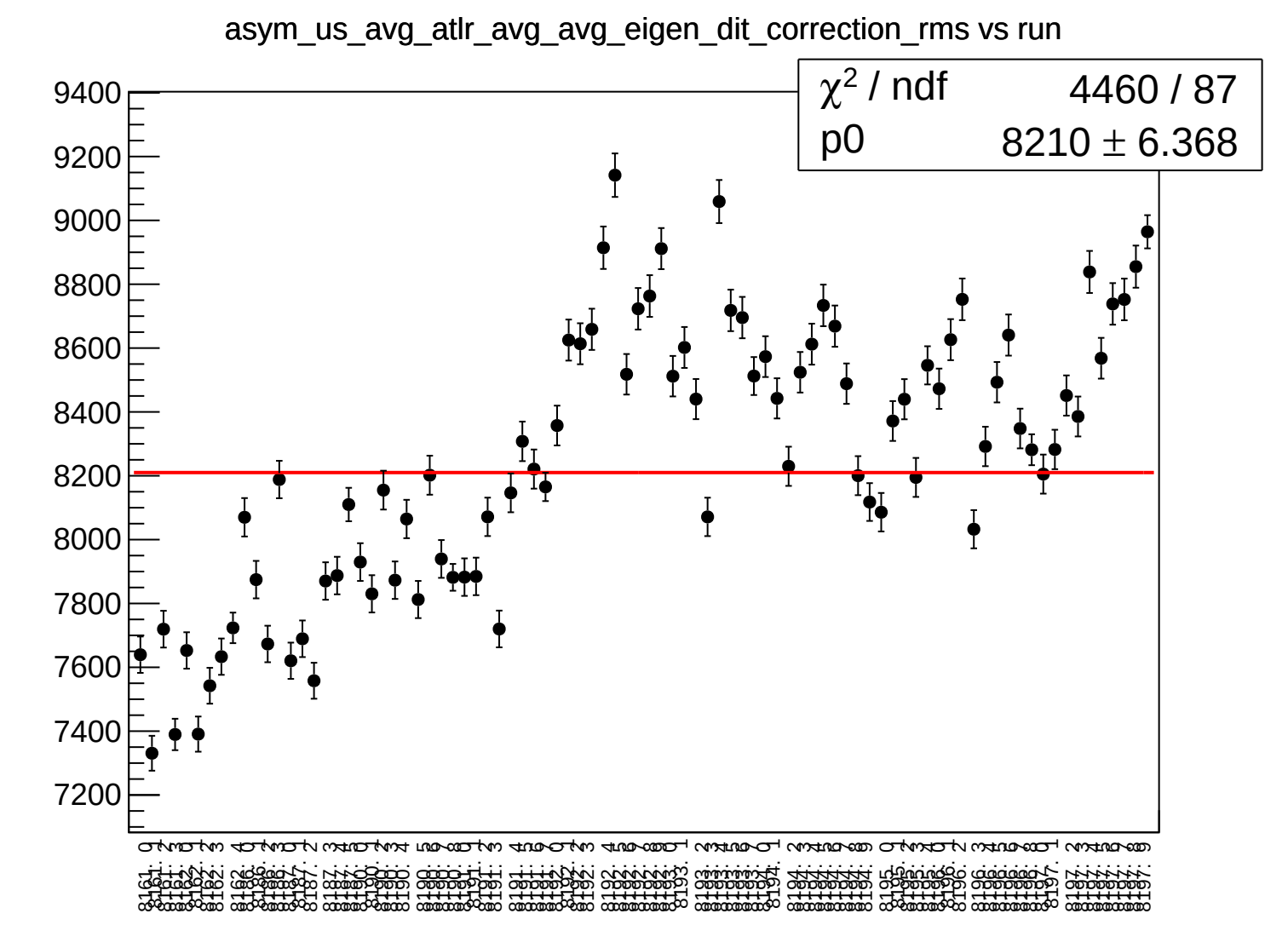

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 97.63 / 87
p0 −2797 ± 2023
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −358.4
Std Dev 0
2
1
0
−1
−2
−3

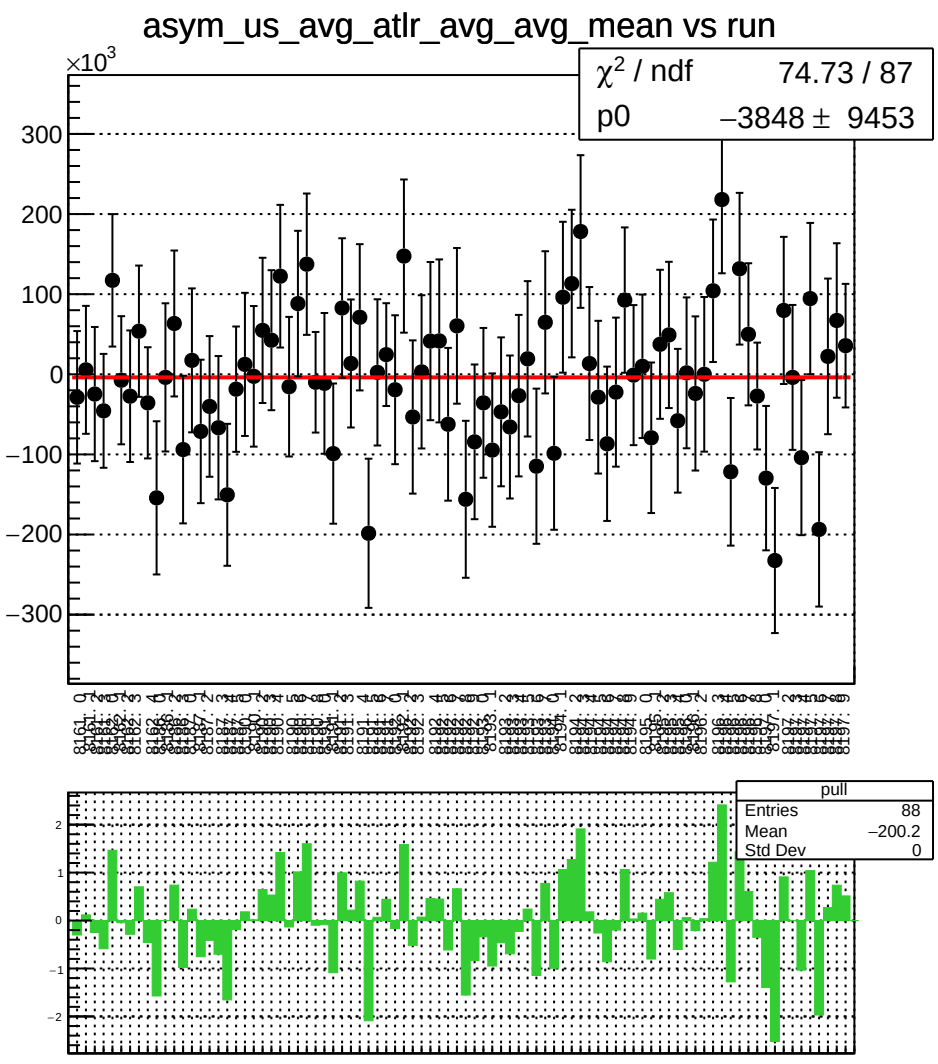

pull1D
Entries 88
Mean 0.009141
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

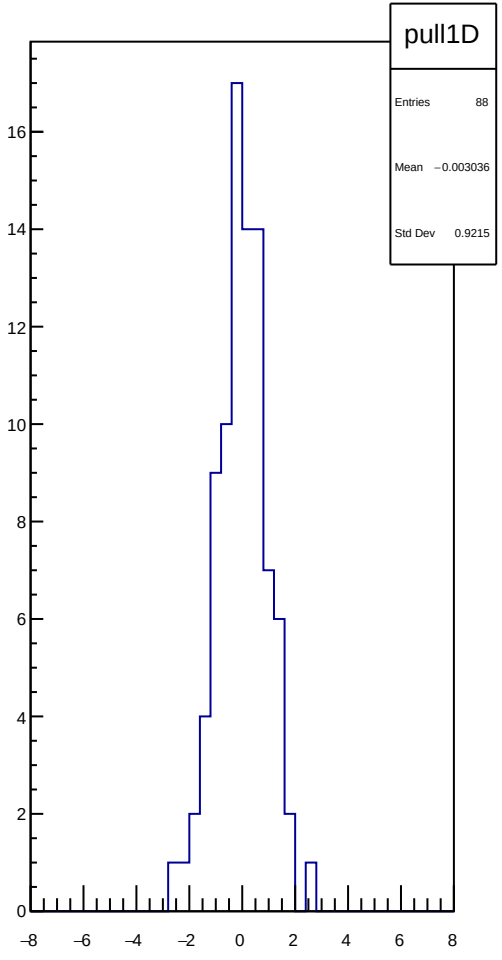

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 941.6 / 87
p0 1847 ± 1.431
2050
2000
1950
1900
1850
1800

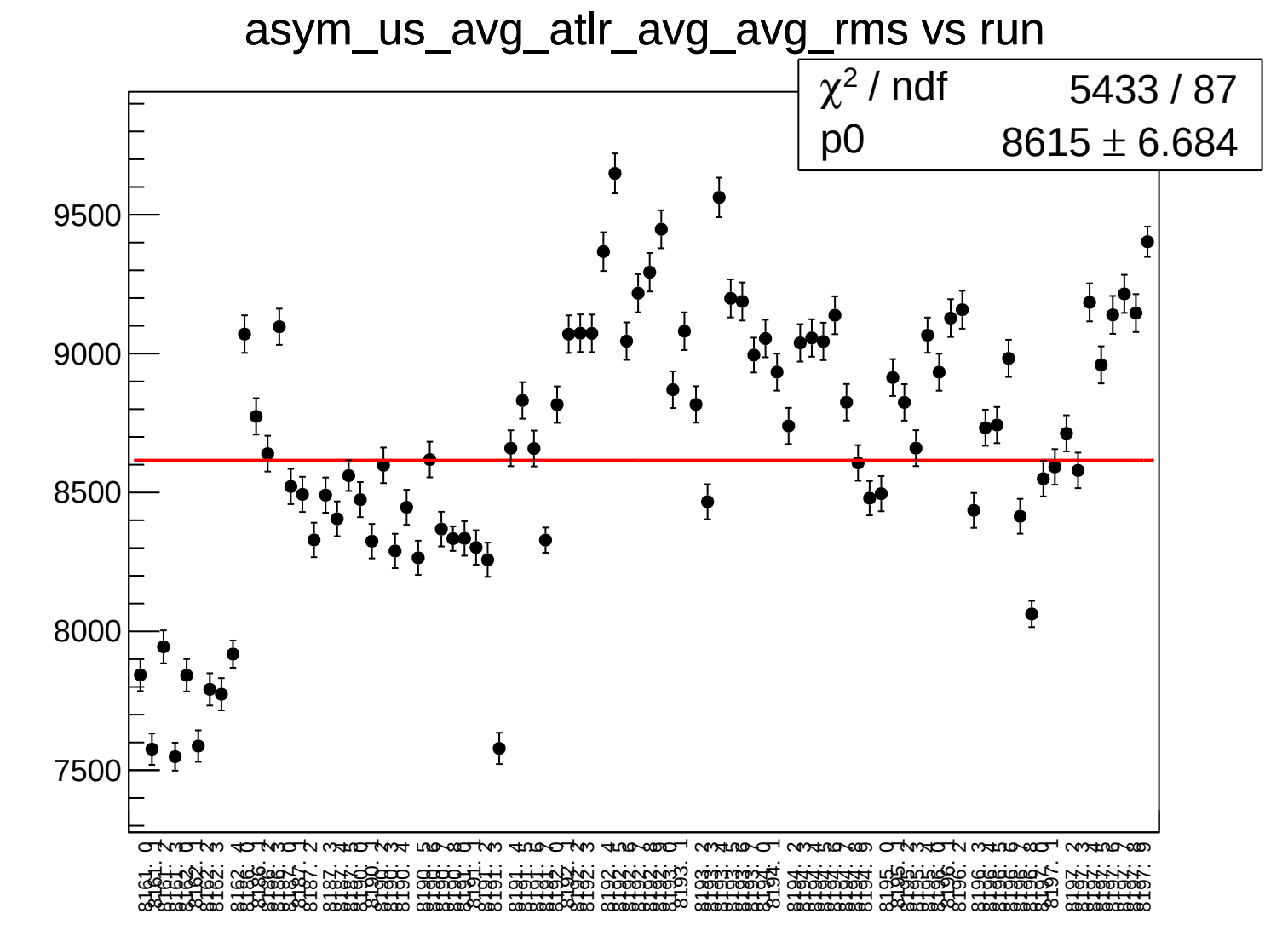

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.17 / 87
p0 1492 ± 9005
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −539.3
Std Dev 0
2
1
0
−1
−2

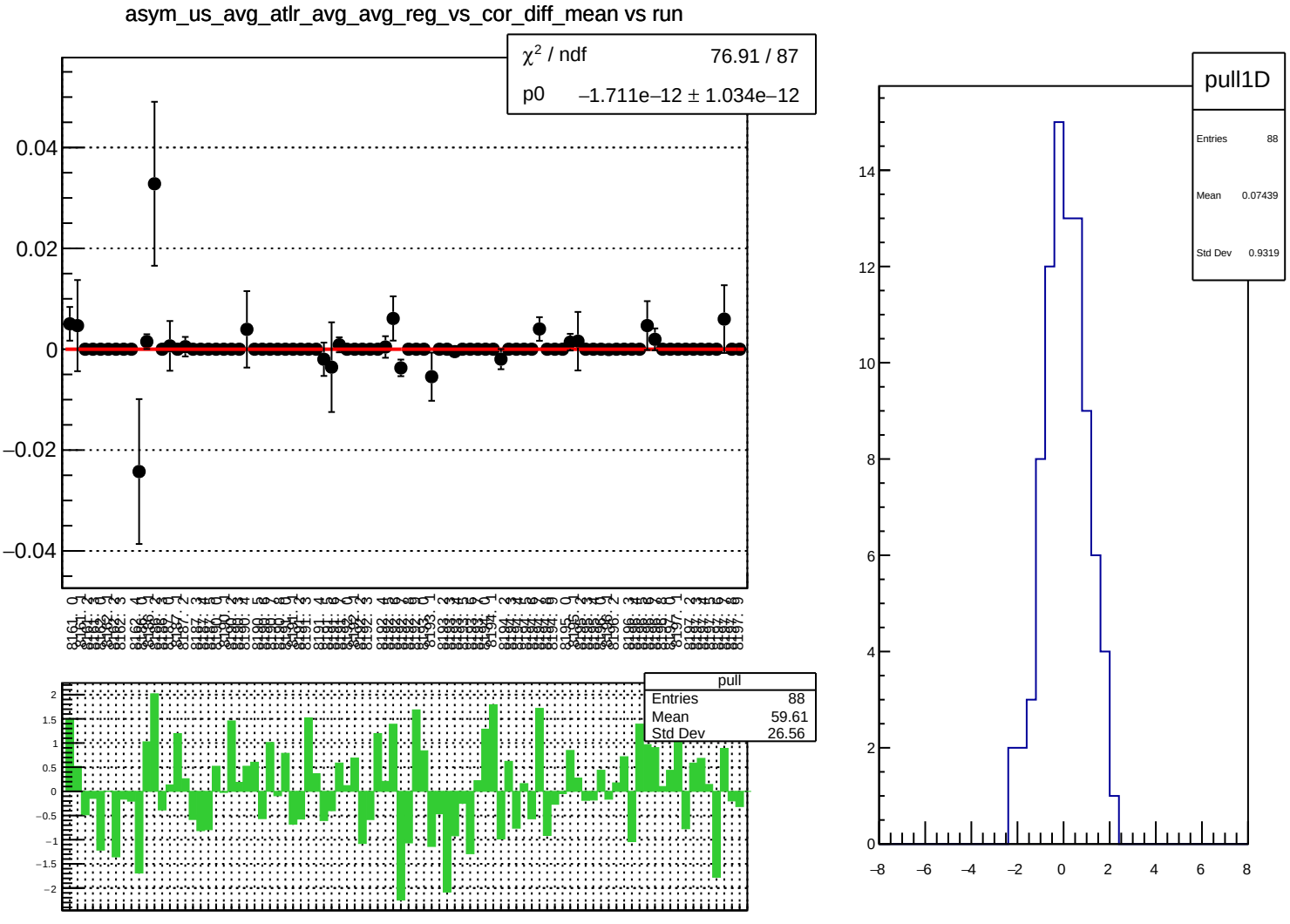

pull1D
Entries 88
Mean 0.002859
Std Dev 0.9485
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

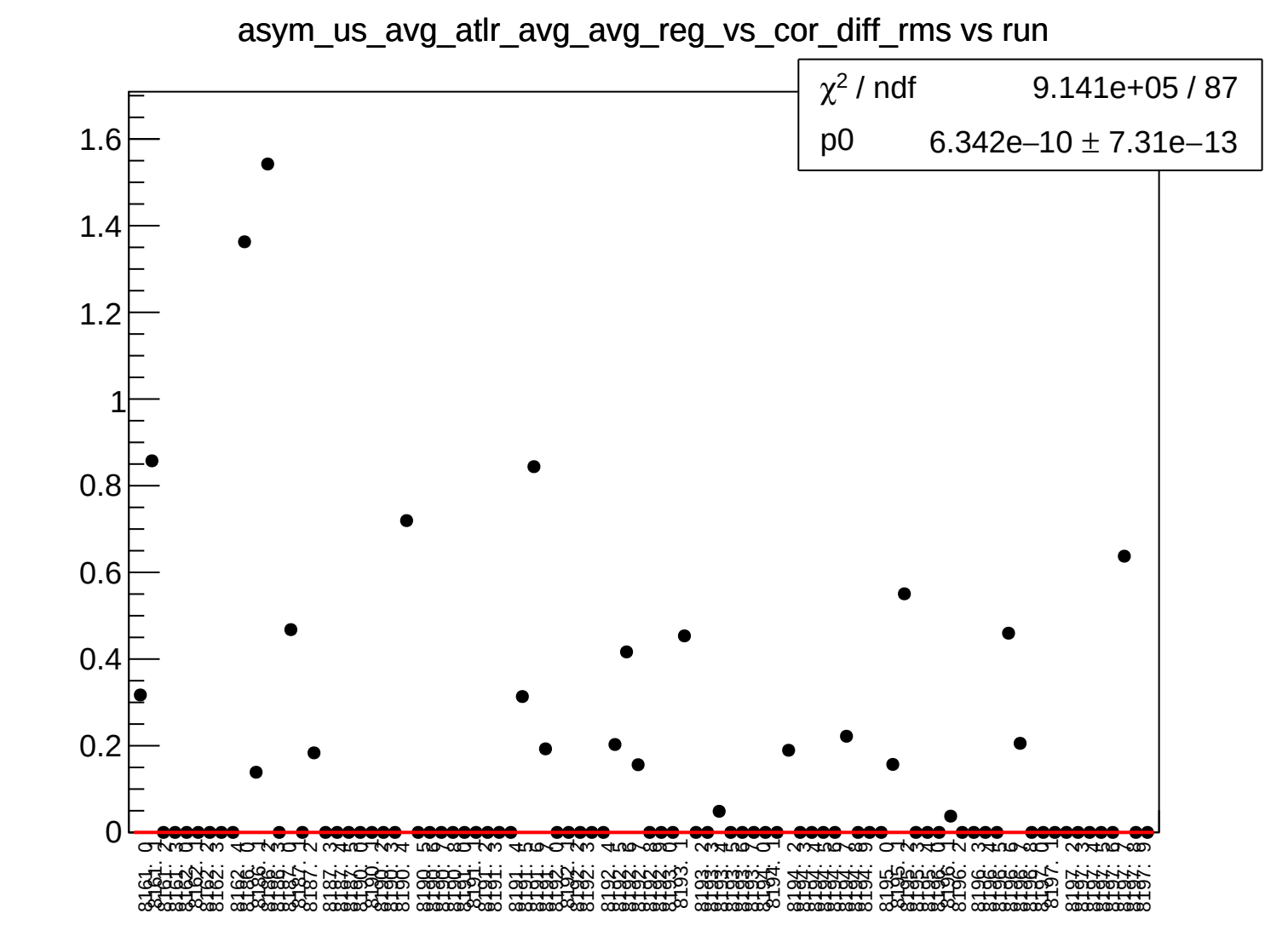

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4460 / 87
p0 8210 ± 6.368
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

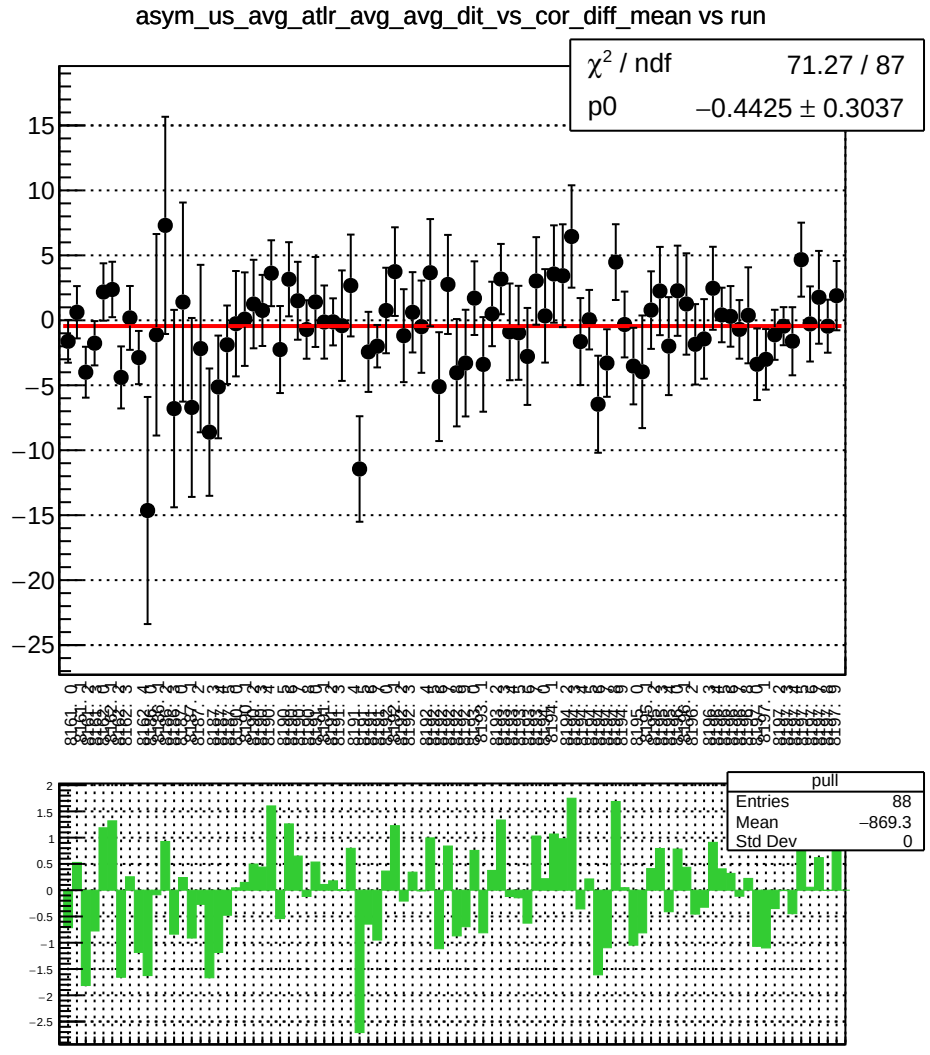

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 74.73 / 87
p0 −3848 ± 9453
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean −200.2
Std Dev 0
2
1
0
−1
−2

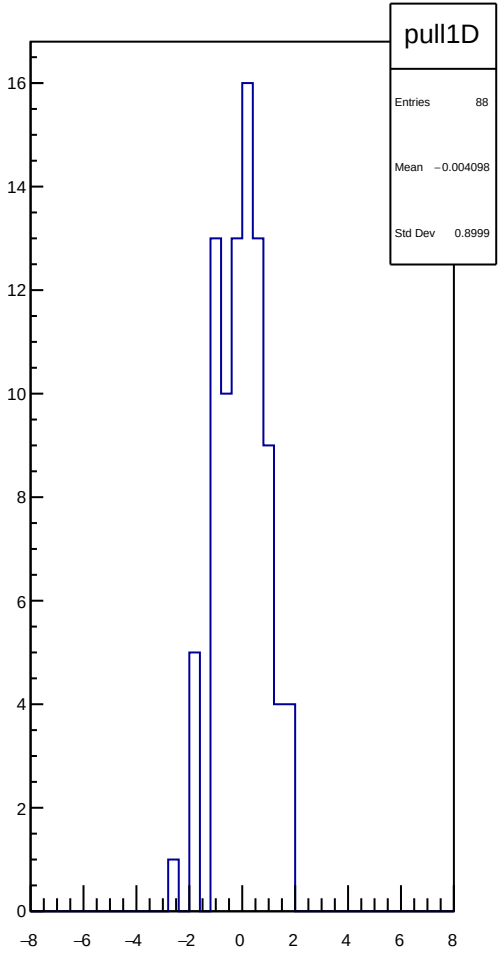

pull1D
Entries 88
Mean −0.003036
Std Dev 0.9215
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

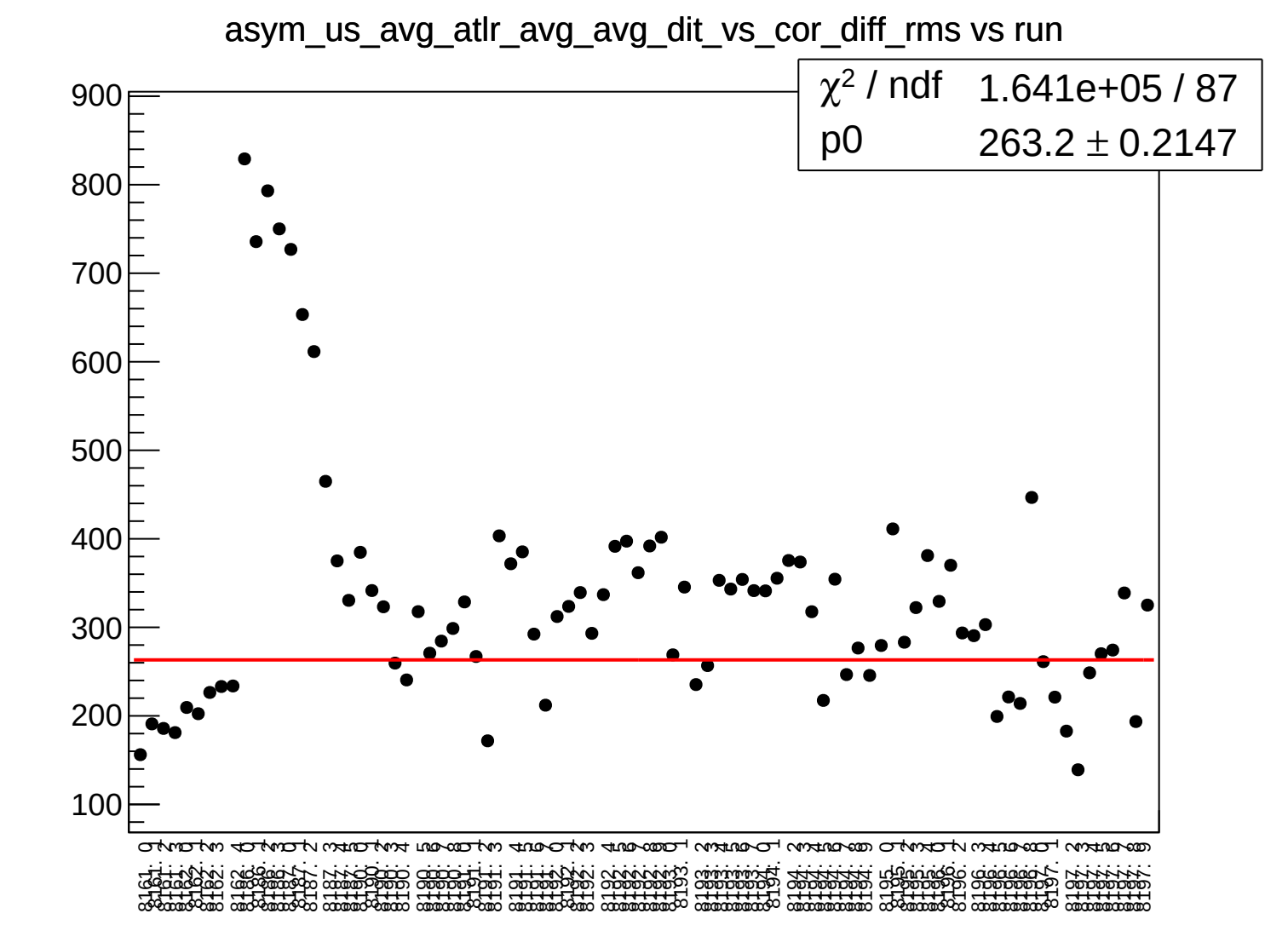

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 5433 / 87
p0 8615 ± 6.684
9500
9000
8500
8000
7500

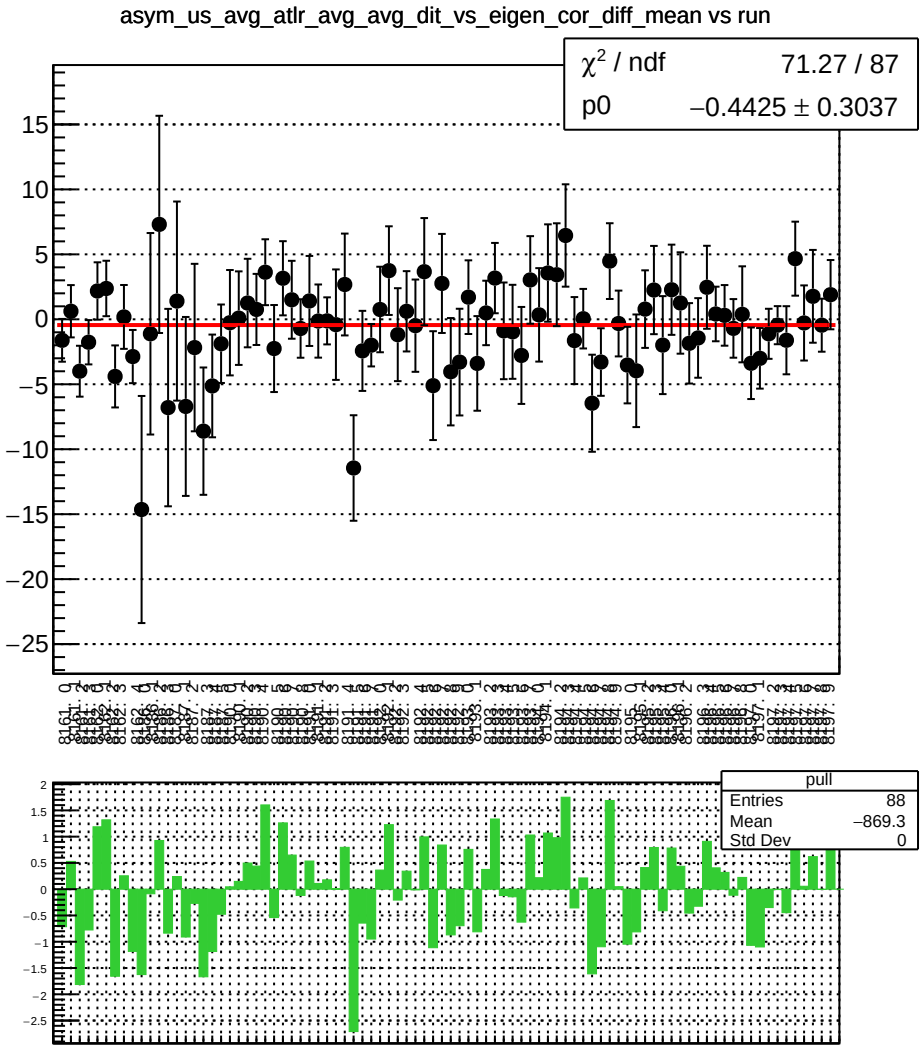

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.91 / 87
p0 −1.711e−12 ± 1.034e−12
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 59.61
Std Dev 26.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.07439
Std Dev 0.9319
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

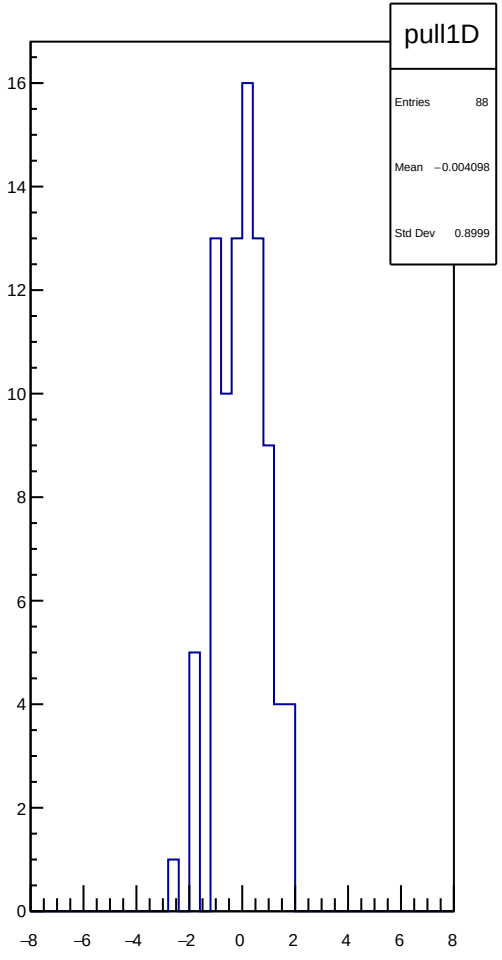

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.141e+05 / 87
p0 6.342e−10 ± 7.31e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

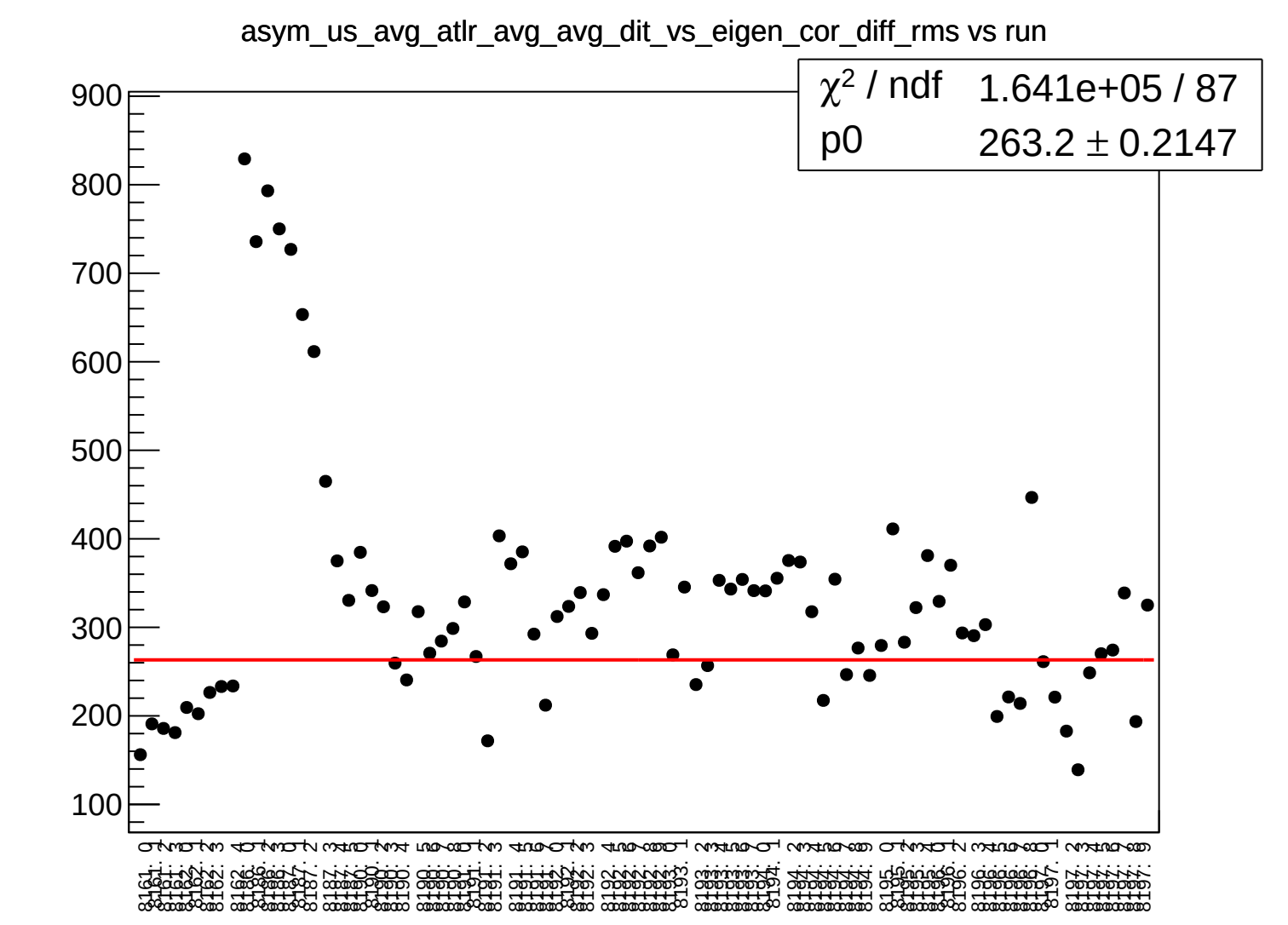

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.27 / 87
p0 −0.4425 ± 0.3037
pull
Entries 88
Mean −869.3
Std Dev 0

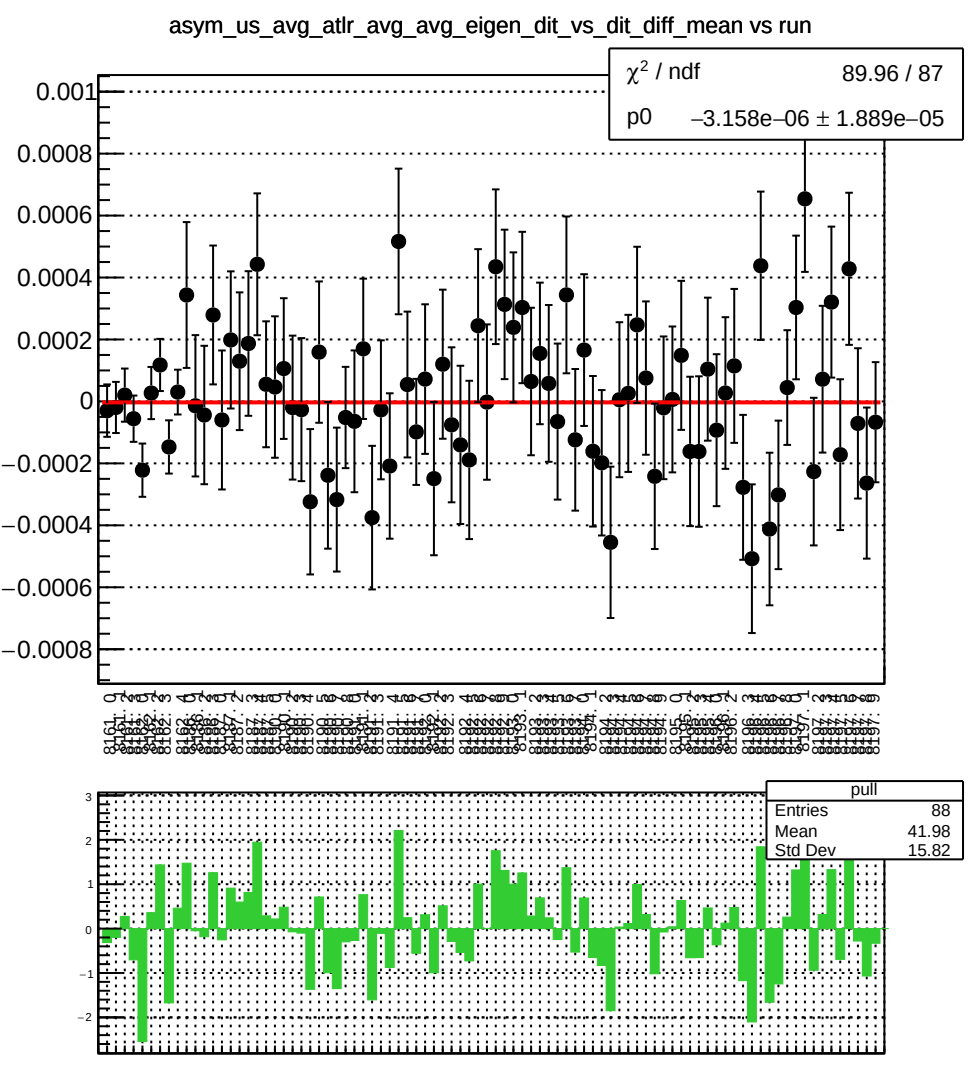

pull1D
Entries 88
Mean −0.004098
Std Dev 0.8999

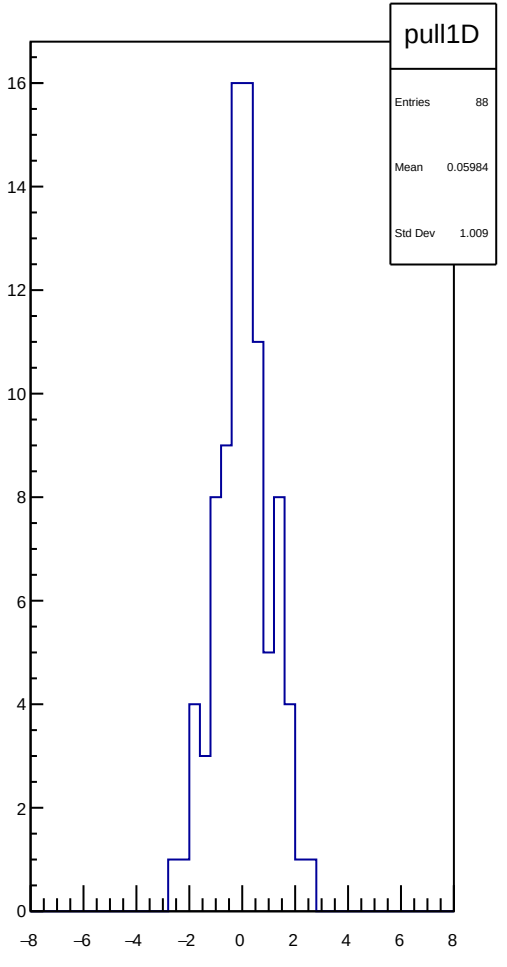

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.641e+05 / 87
p0 263.2 ± 0.2147
900
800
700
600
500
400
300
200
100

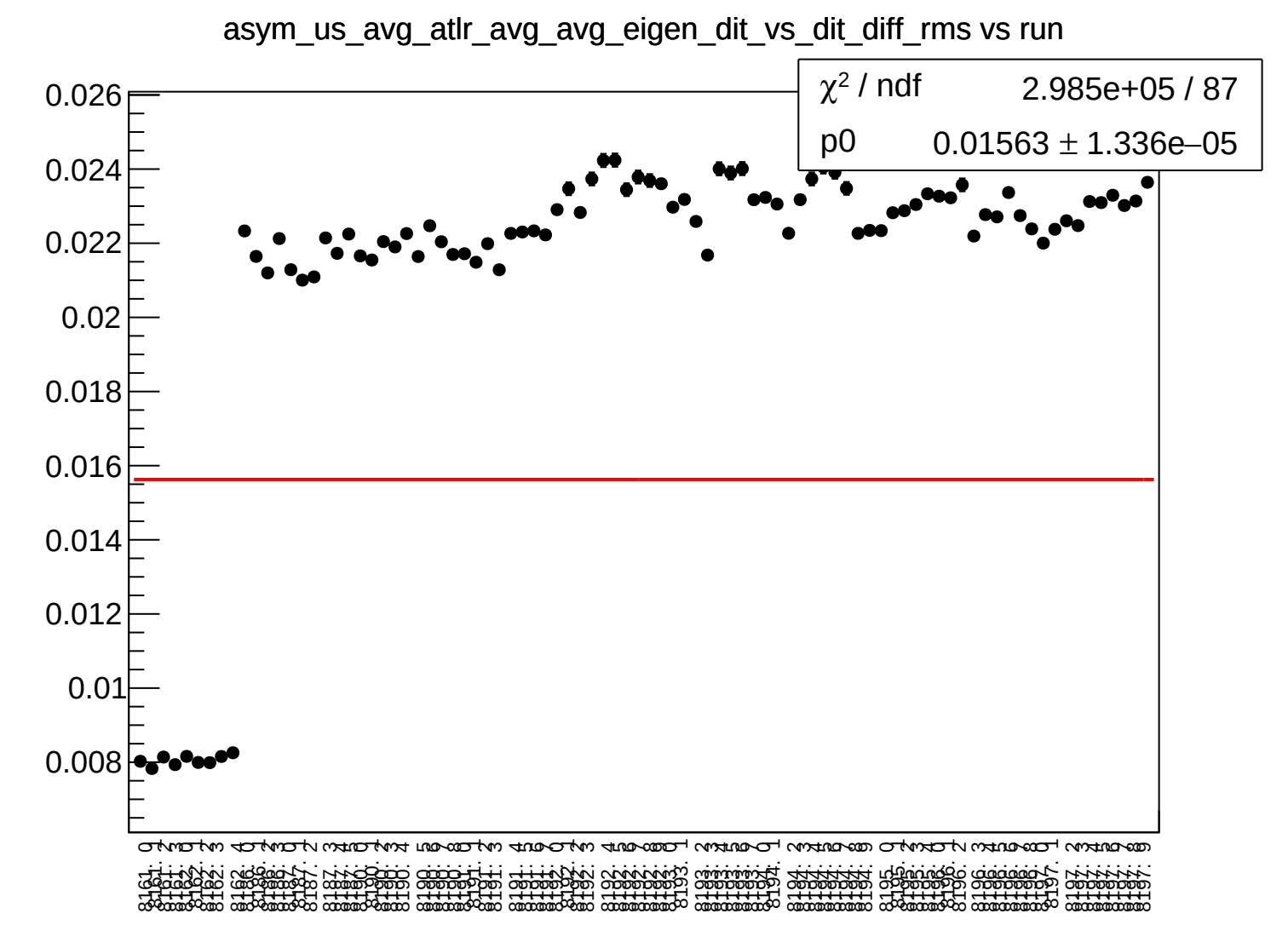

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.27 / 87
p0 −0.4425 ± 0.3037
pull
Entries 88
Mean −869.3
Std Dev 0

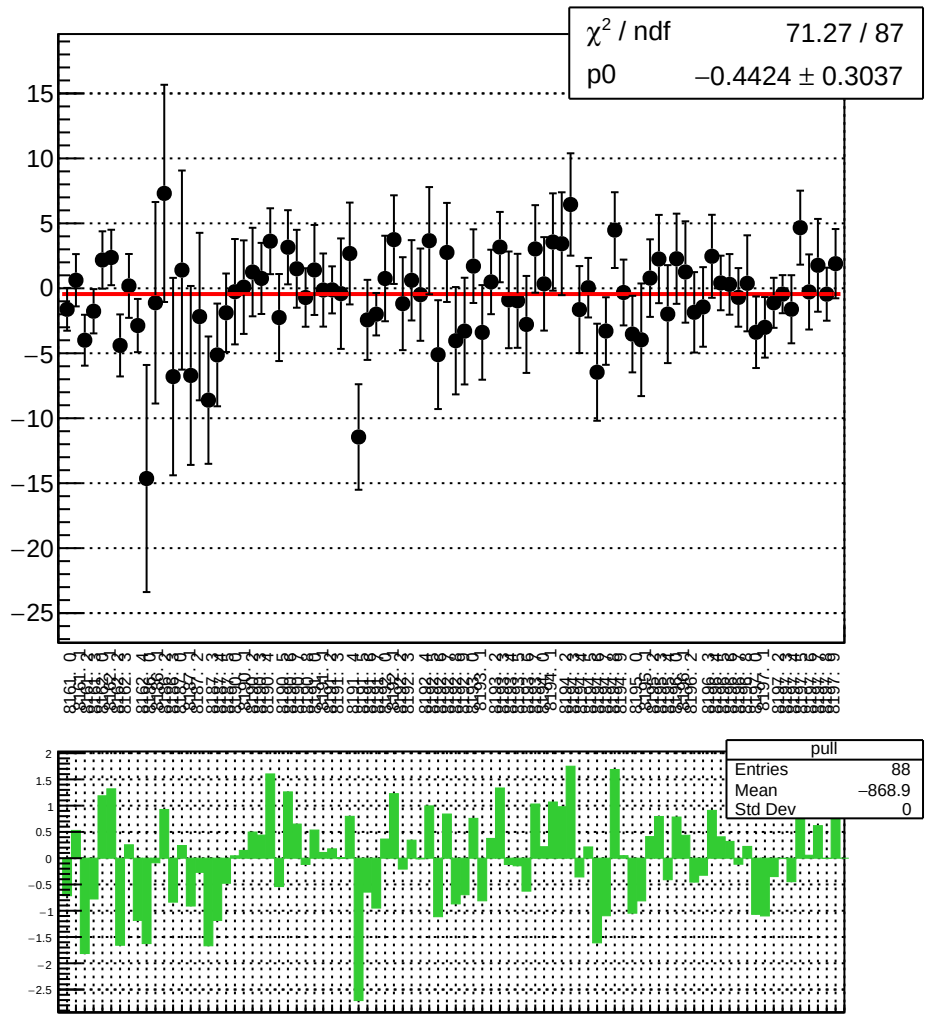

pull1D
Entries 88
Mean −0.004098
Std Dev 0.8999

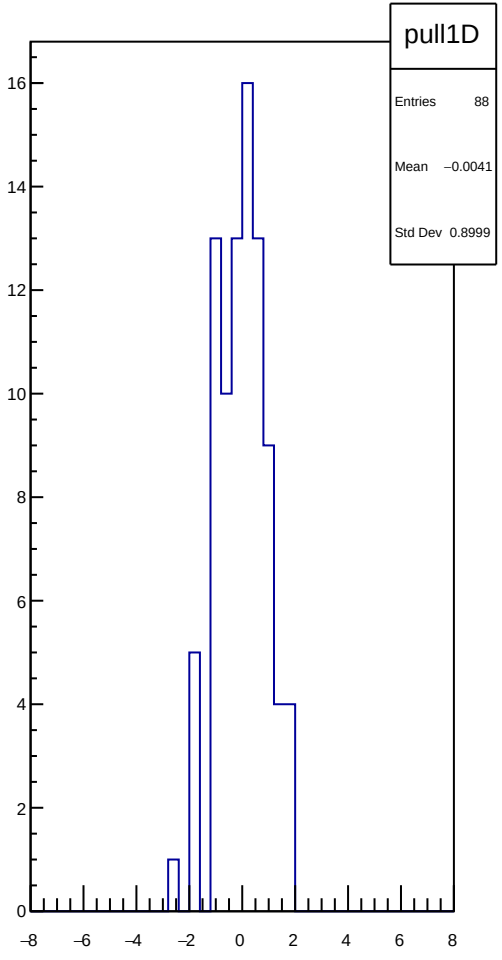

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.641e+05 / 87
p0 263.2 ± 0.2147
900
800
700
600
500
400
300
200
100

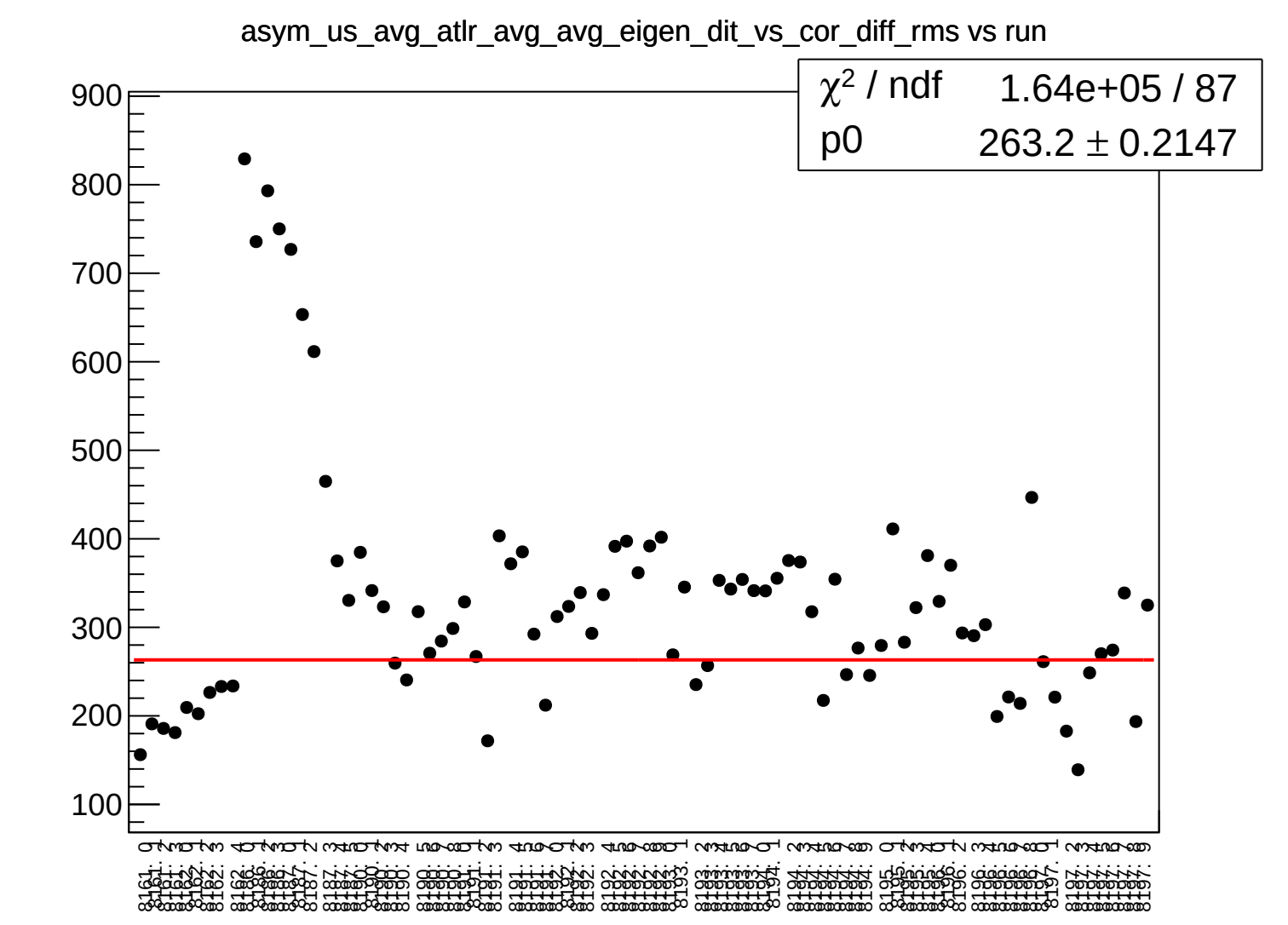

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.96 / 87
p0 −3.158e−06 ± 1.889e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 88
Mean 41.98
Std Dev 15.82
3
2
1
0
−1
−2

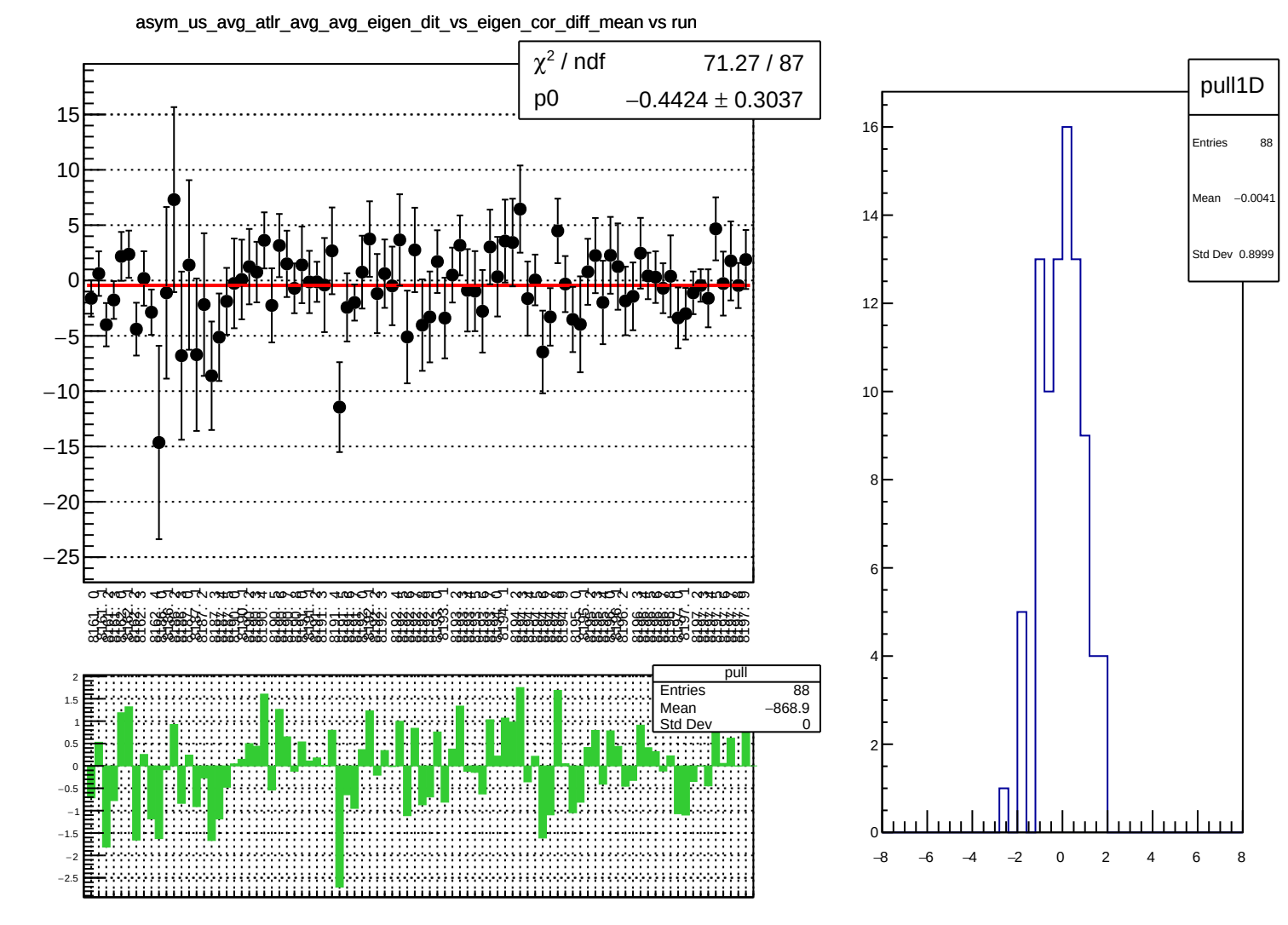

pull1D
Entries 88
Mean 0.05984
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

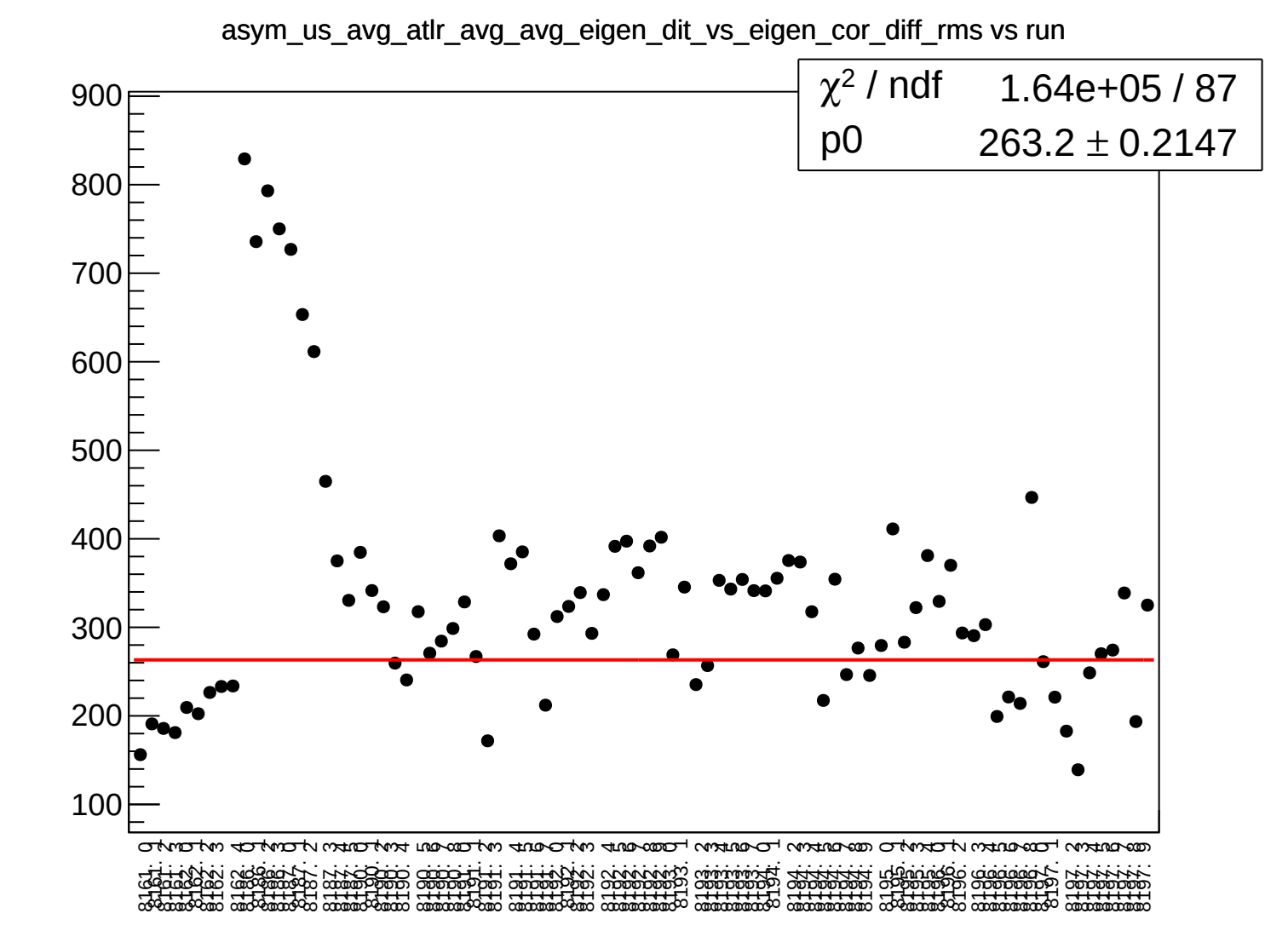

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.985e+05 / 87
p0 0.01563 ± 1.336e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

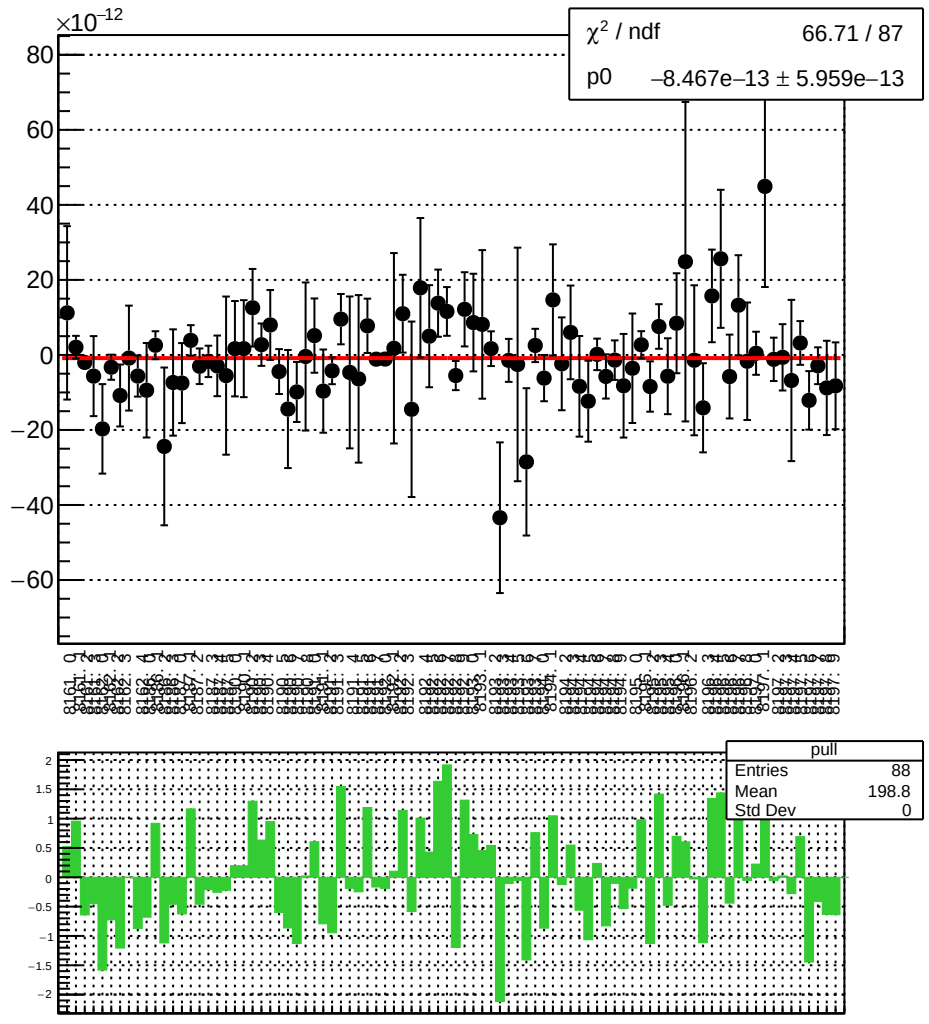

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.27 / 87
p0 −0.4424 ± 0.3037
pull
Entries 88
Mean −868.9
Std Dev 0

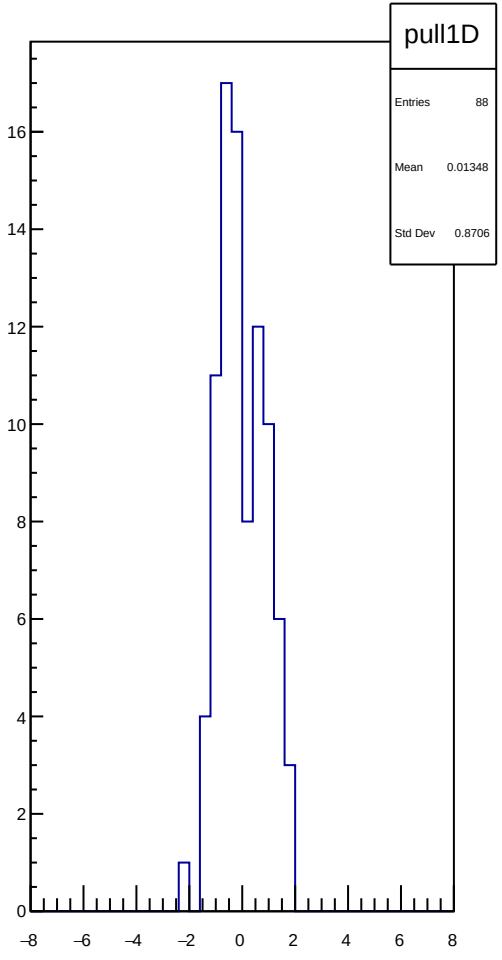

pull1D
Entries 88
Mean −0.0041
Std Dev 0.8999

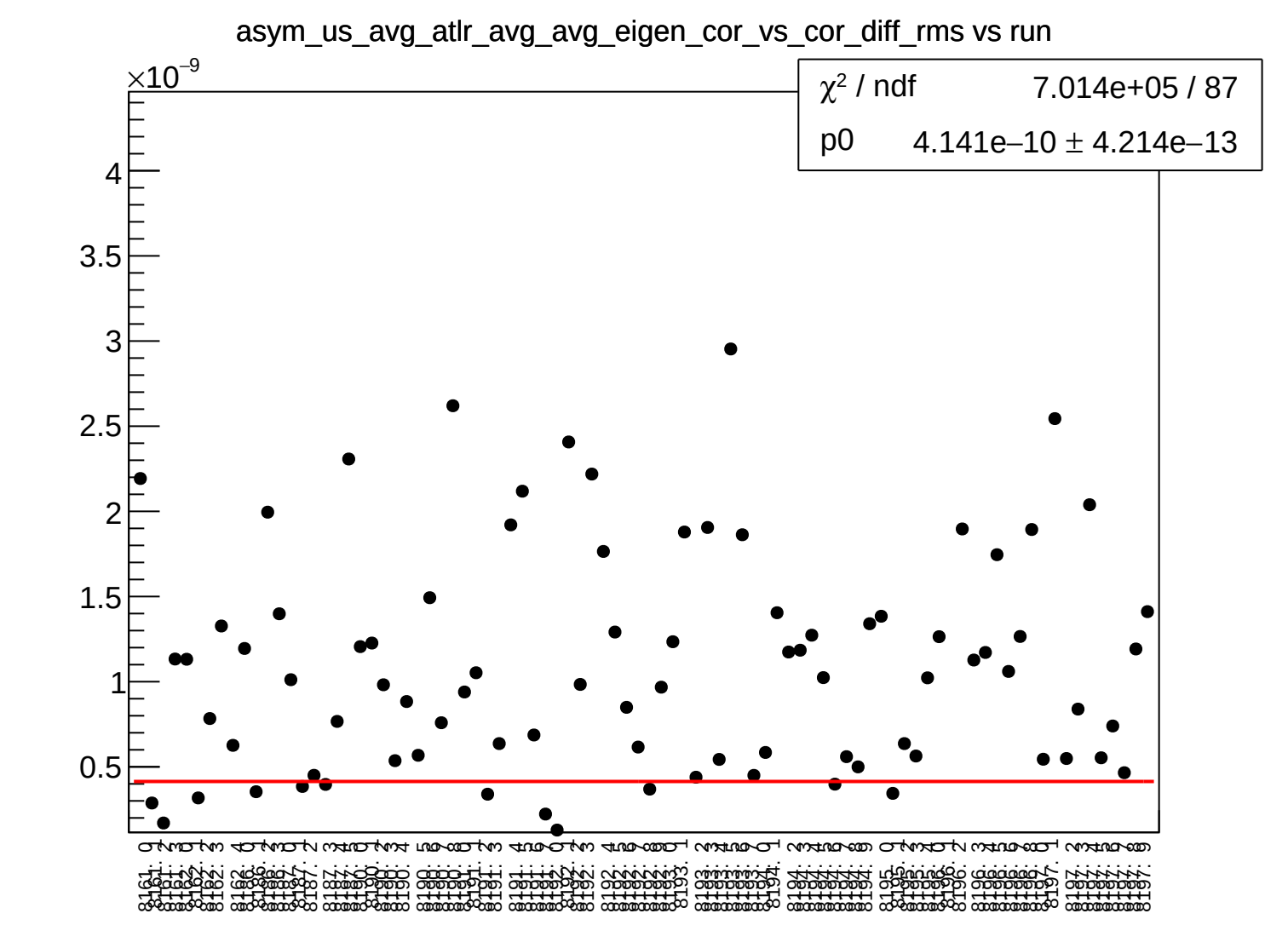

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.64e+05 / 87
p0 263.2 ± 0.2147
900
800
700
600
500
400
300
200
100

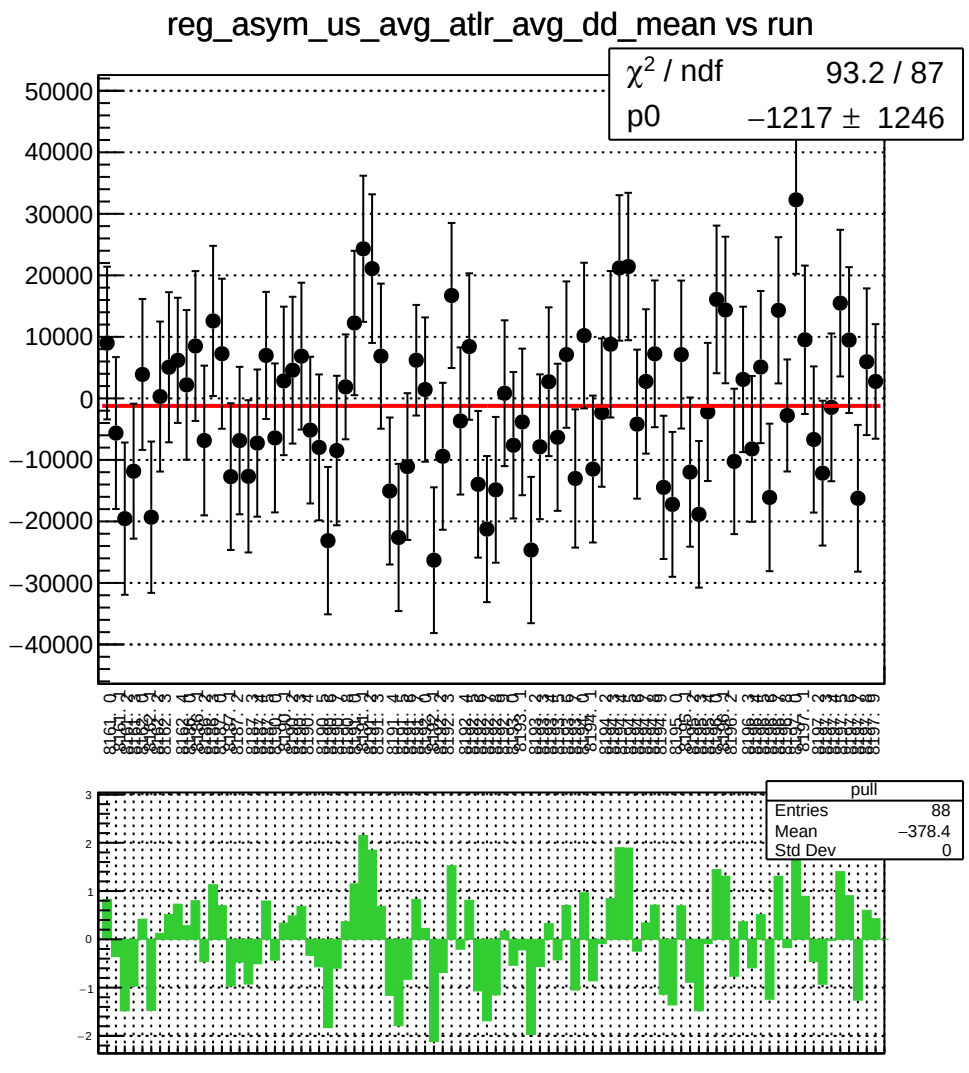

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.27 / 87
p0 −0.4424 ± 0.3037
pull
Entries 88
Mean −868.9
Std Dev 0
pull1D
Entries 88
Mean −0.0041
Std Dev 0.8999

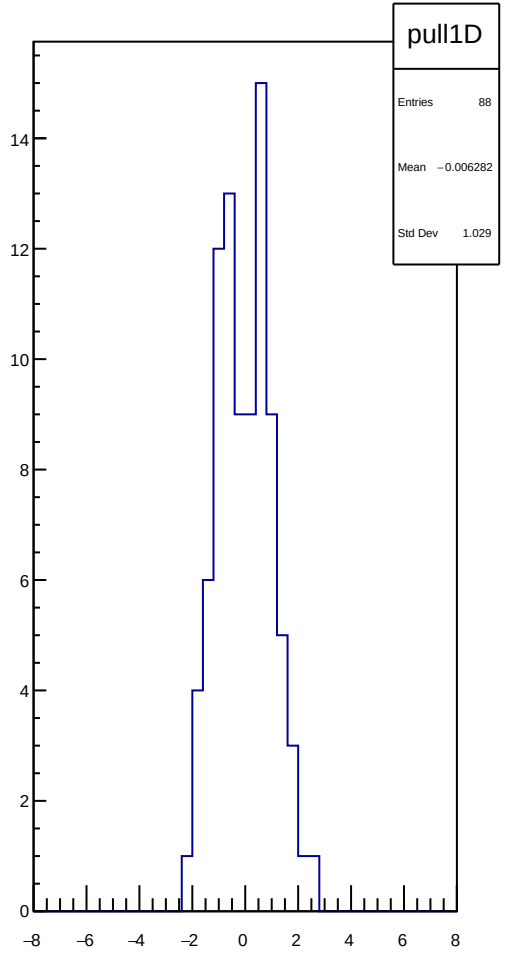

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.64e+05 / 87
p0 263.2 ± 0.2147
900
800
700
600
500
400
300
200
100

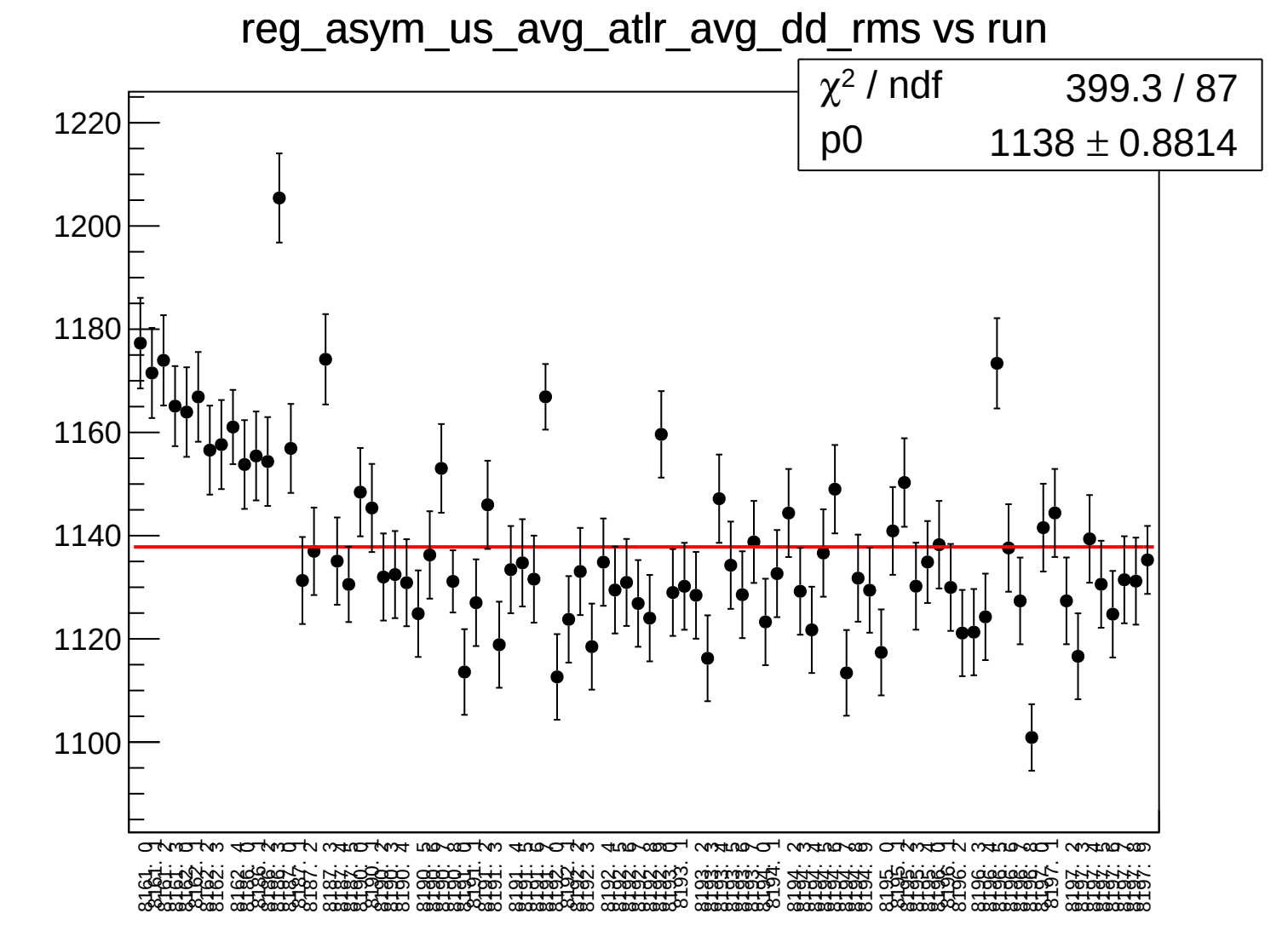

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.71 / 87
p0 −8.467e−13 ± 5.959e−13
pull
Entries 88
Mean 198.8
Std Dev 0

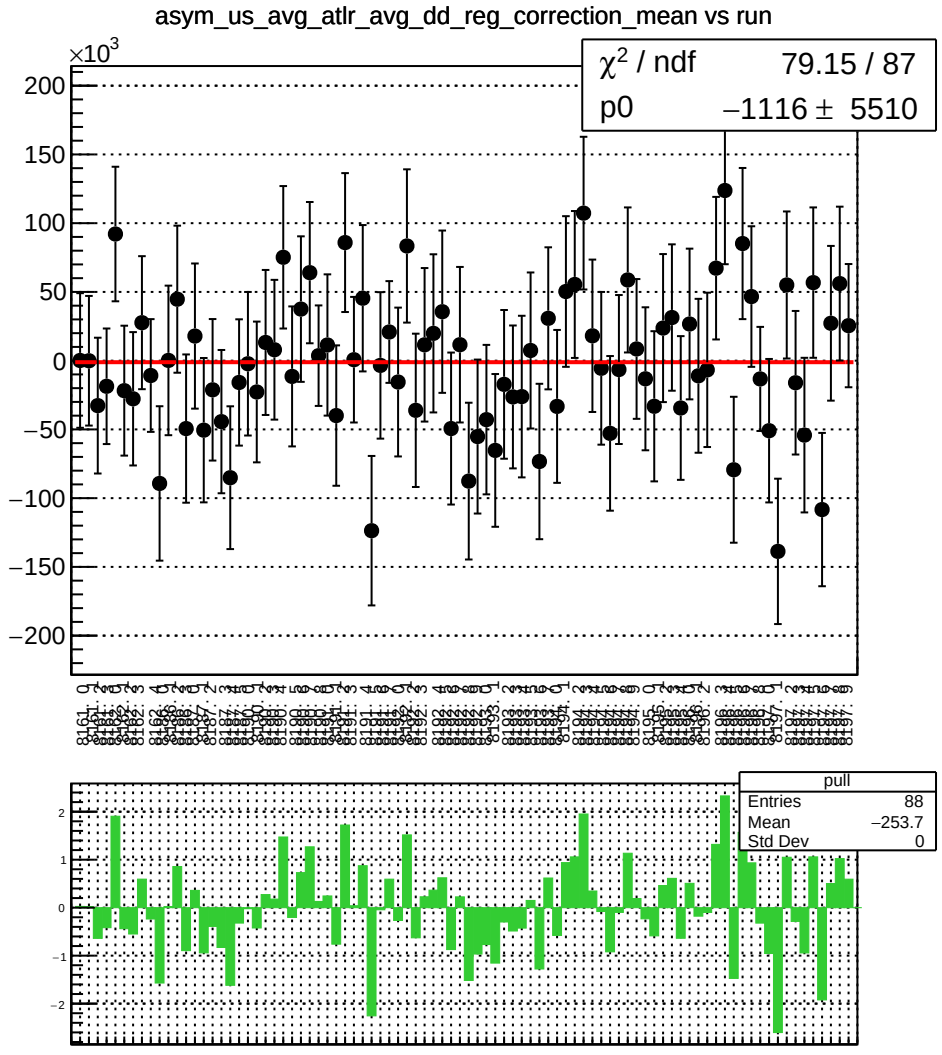

pull1D
Entries 88
Mean 0.01348
Std Dev 0.8706

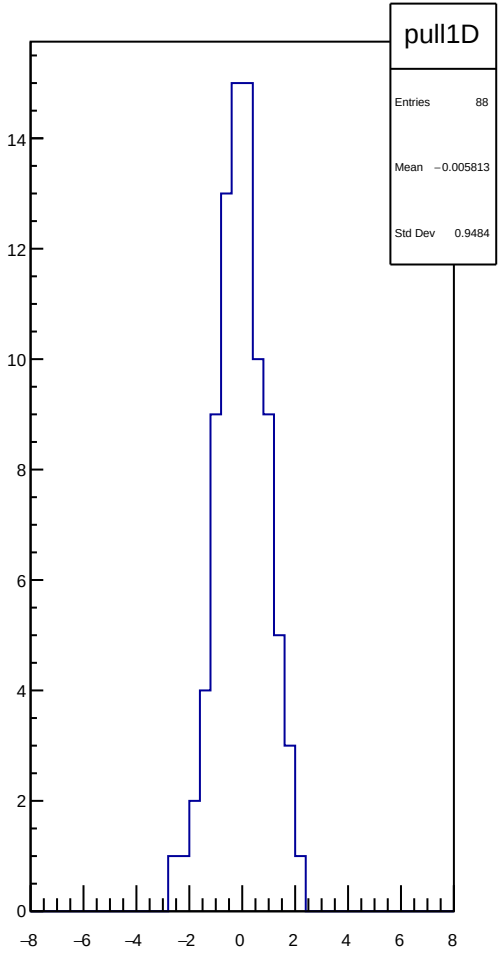

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.014e+05 / 87
p0 4.141e−10 ± 4.214e−13
4
3.5
3
2.5
2
1.5
1
0.5

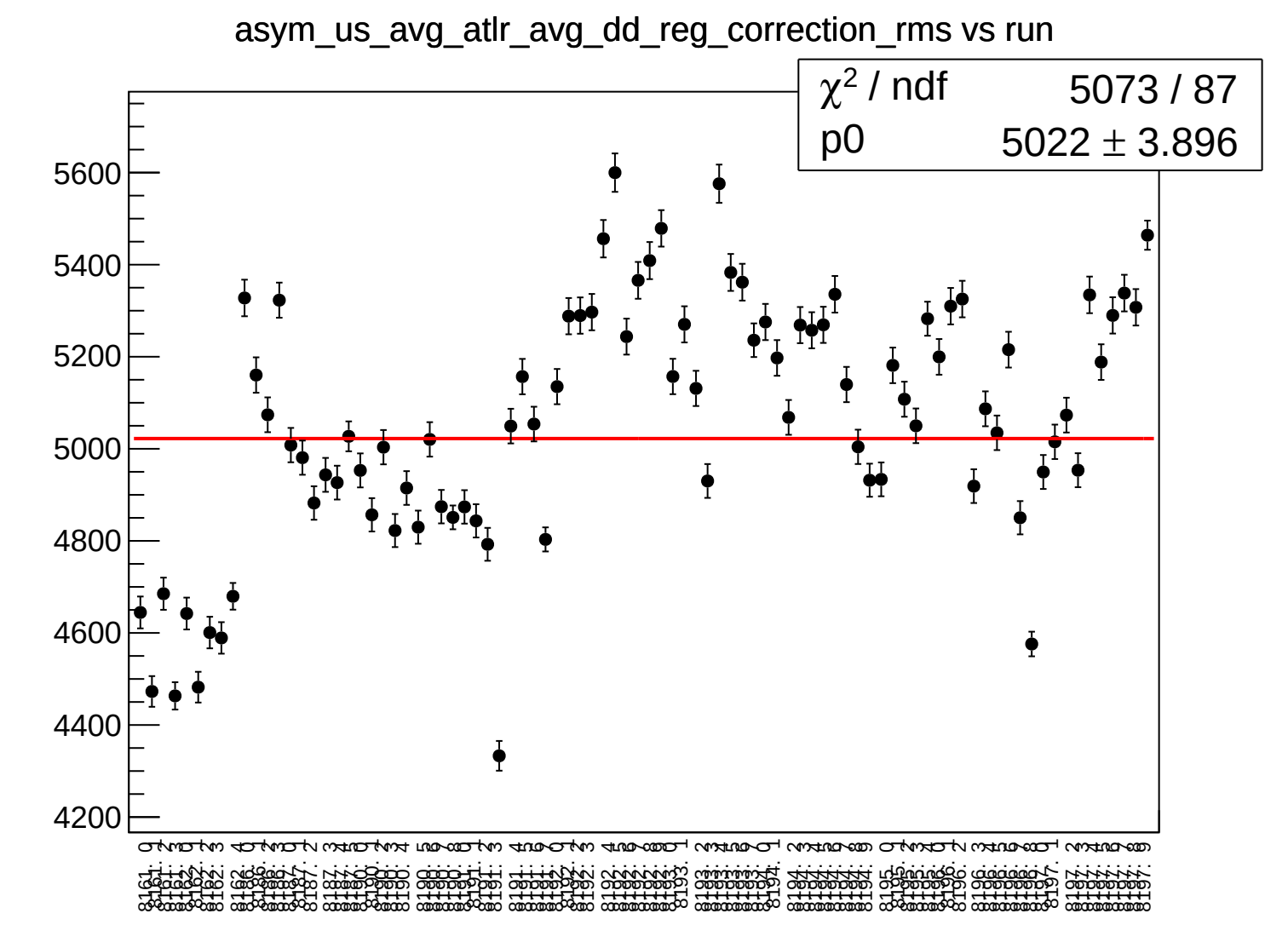

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 93.2 / 87
p0 −1217 ± 1246
pull
Entries 88
Mean −378.4
Std Dev 0

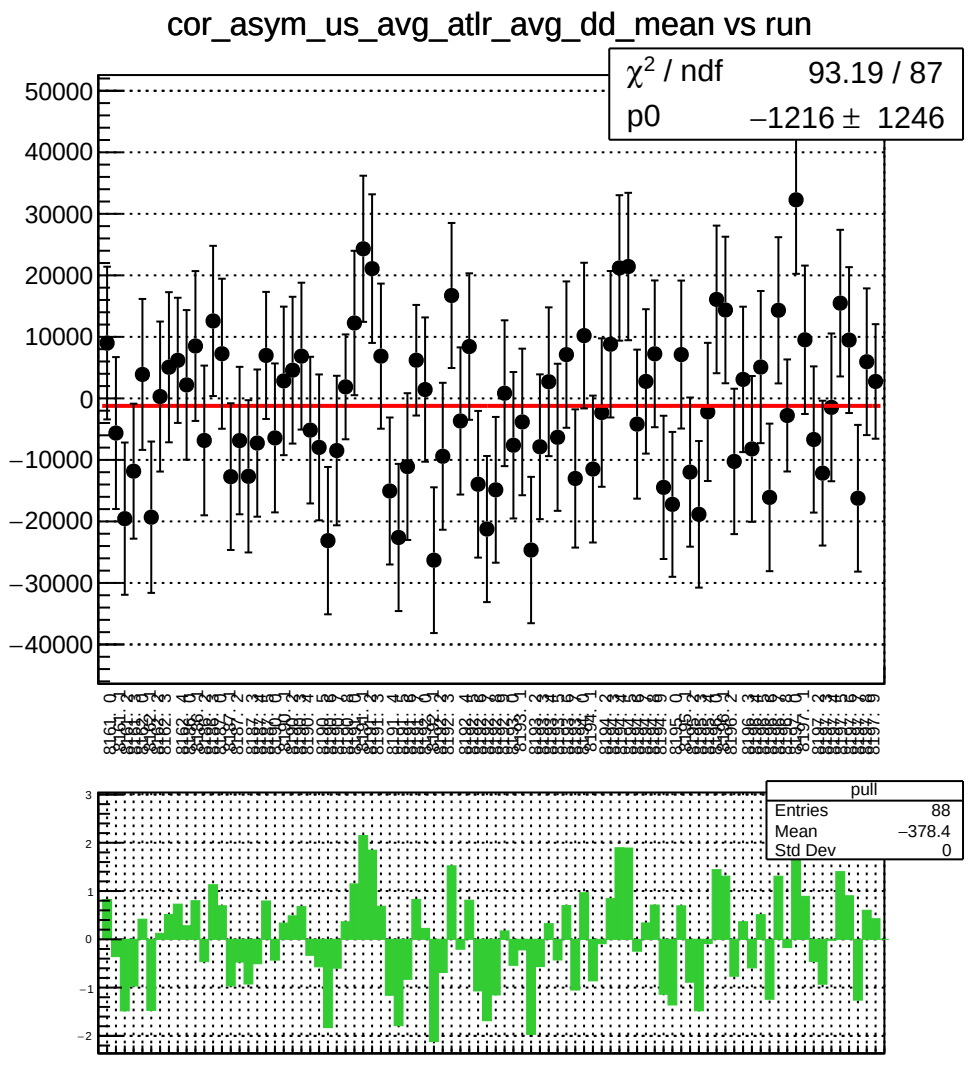

pull1D
Entries 88
Mean −0.006282
Std Dev 1.029

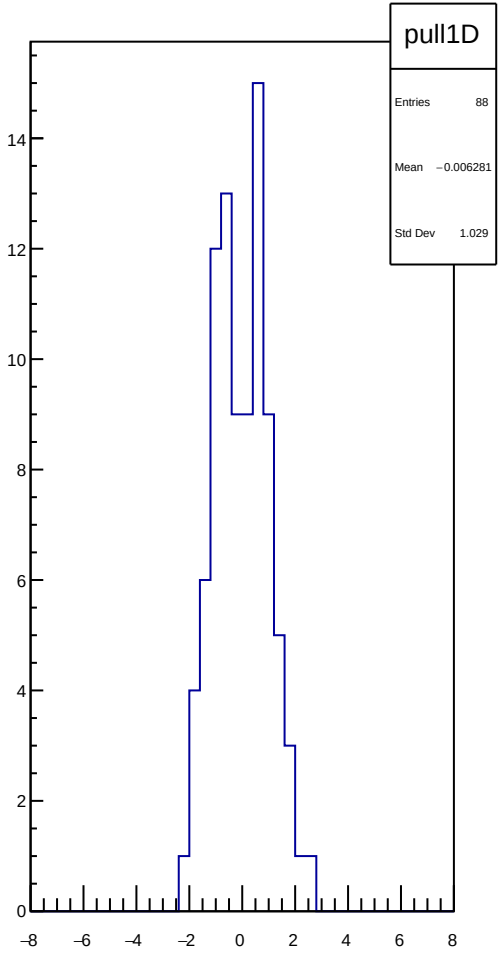

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 399.3 / 87
p0 1138 ± 0.8814
1220
1200
1180
1160
1140
1120
1100

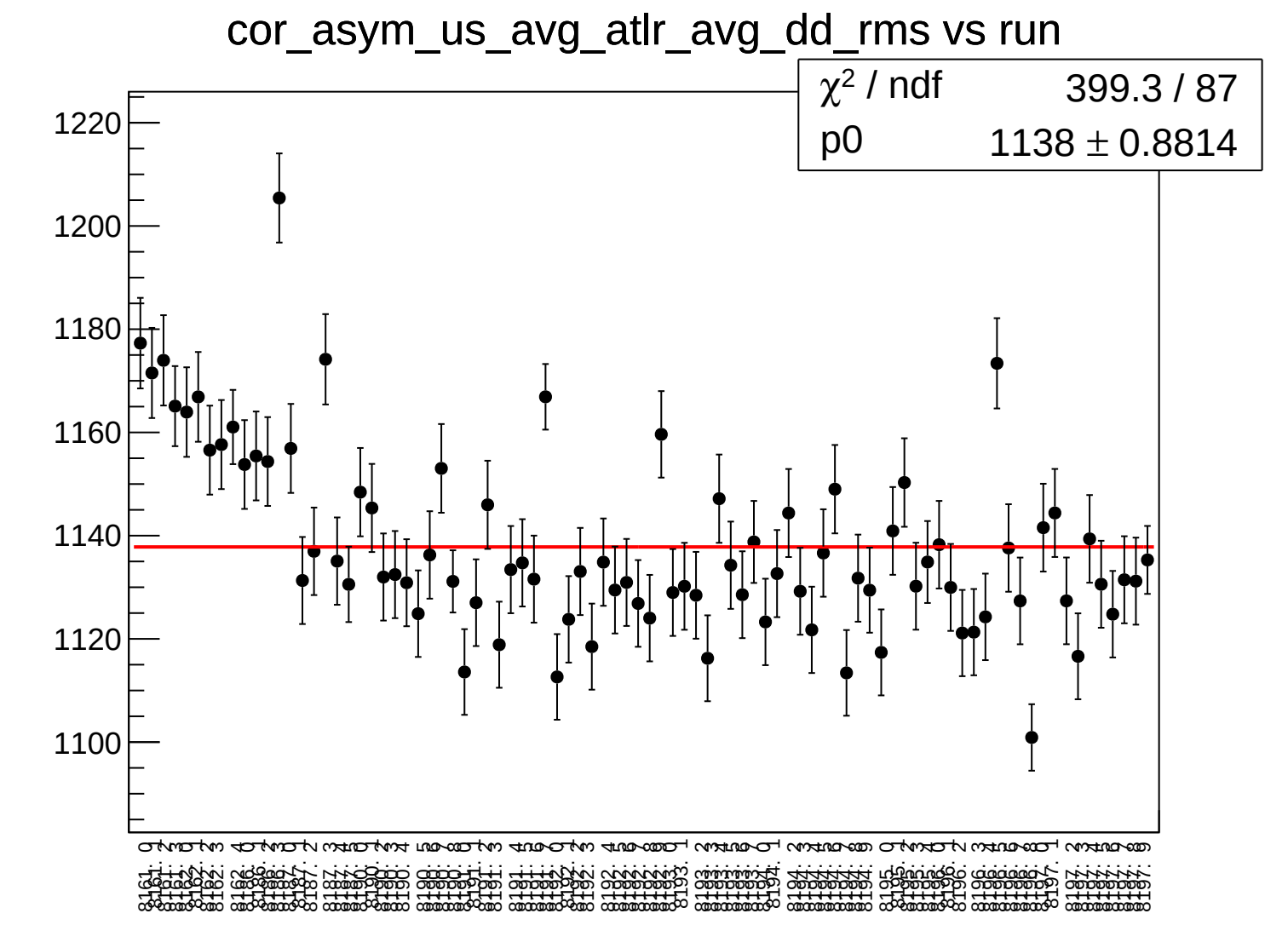

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 79.15 / 87
p0 −1116 ± 5510
pull
Entries 88
Mean −253.7
Std Dev 0

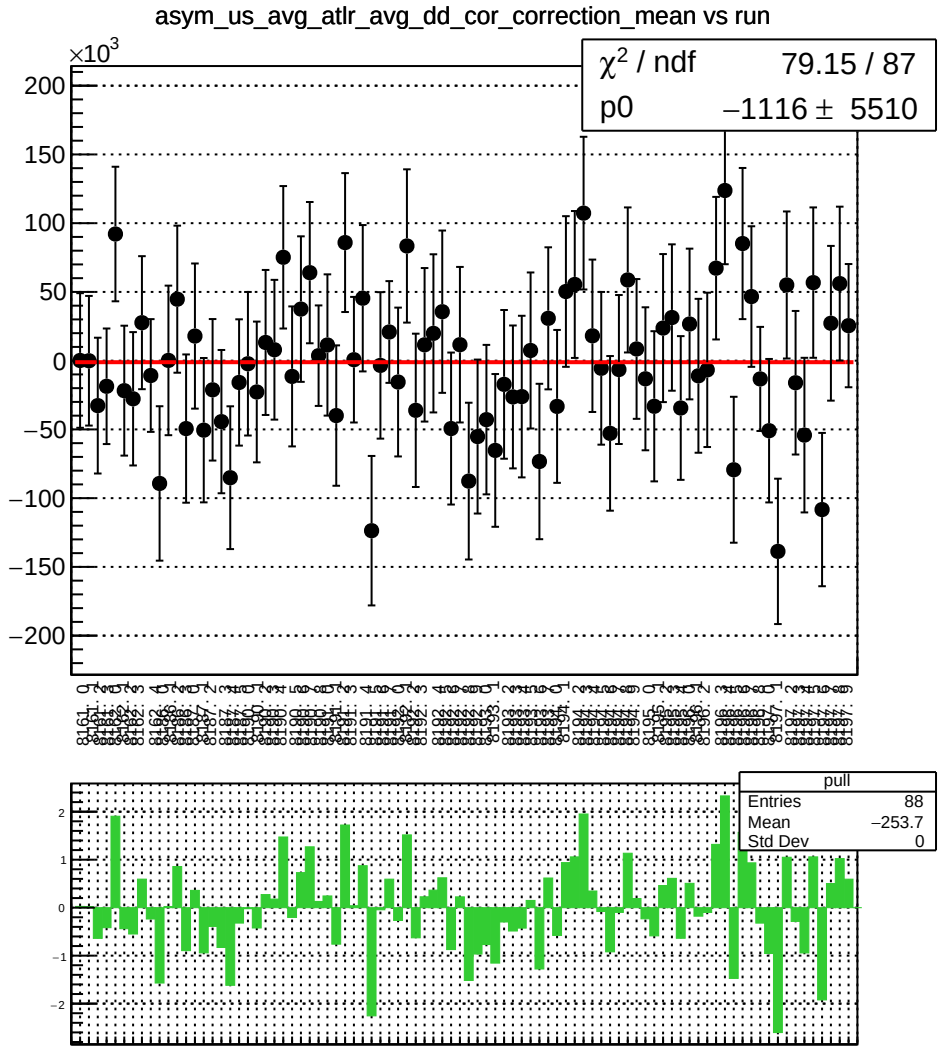

pull1D
Entries 88
Mean −0.005813
Std Dev 0.9484

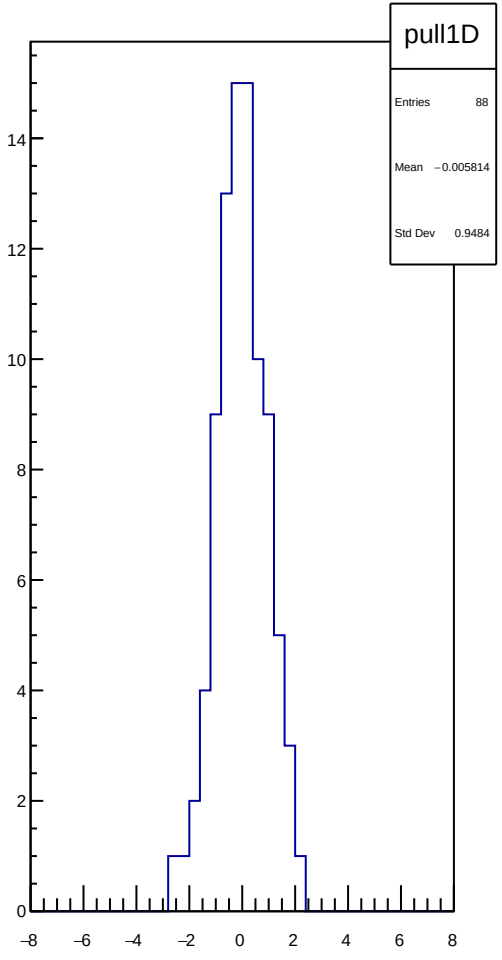

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 5073 / 87
p0 5022 ± 3.896
5600
5400
5200
5000
4800
4600
4400
4200

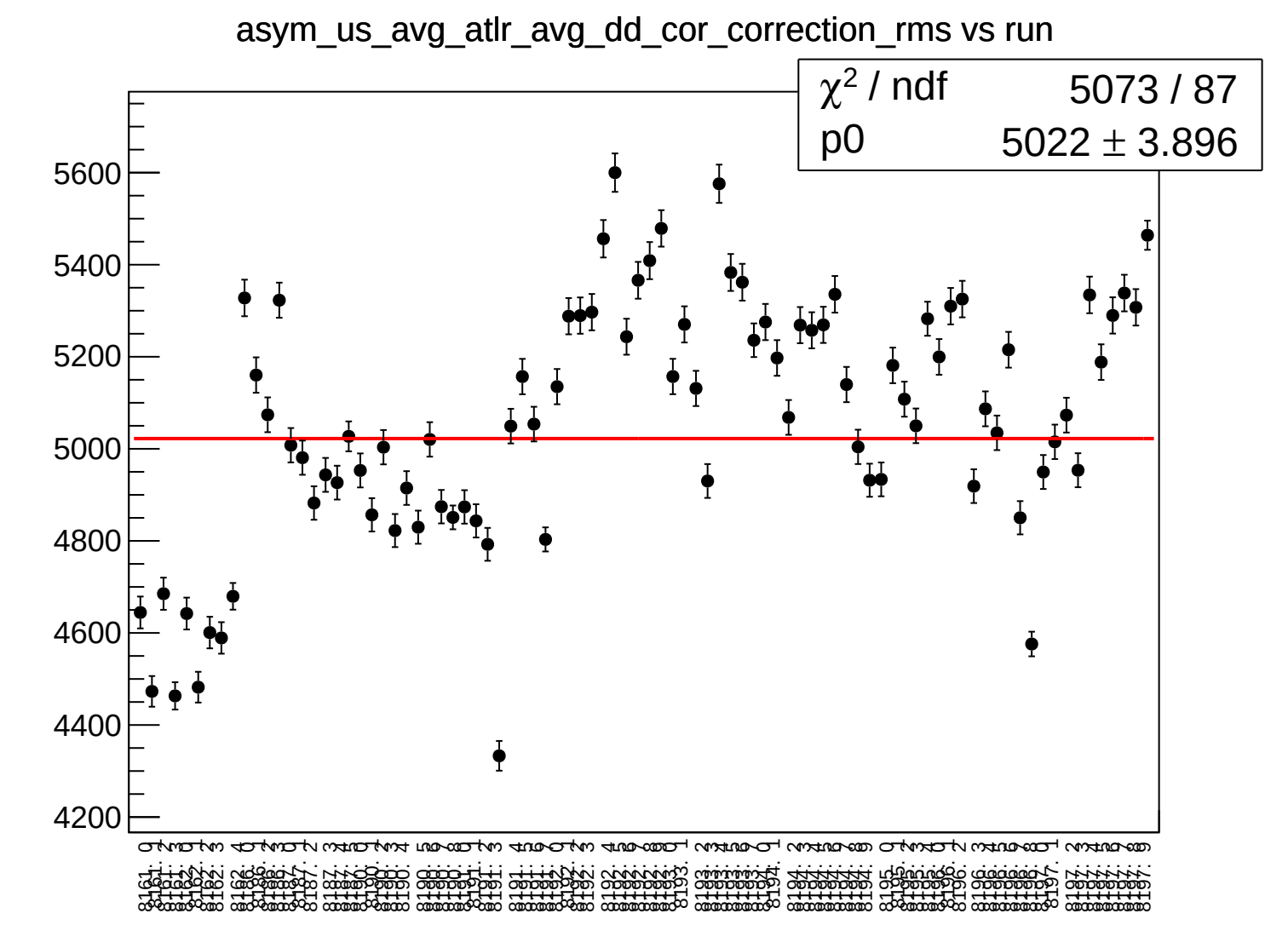

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 93.19 / 87
p0 −1216 ± 1246
pull
Entries 88
Mean −378.4
Std Dev 0

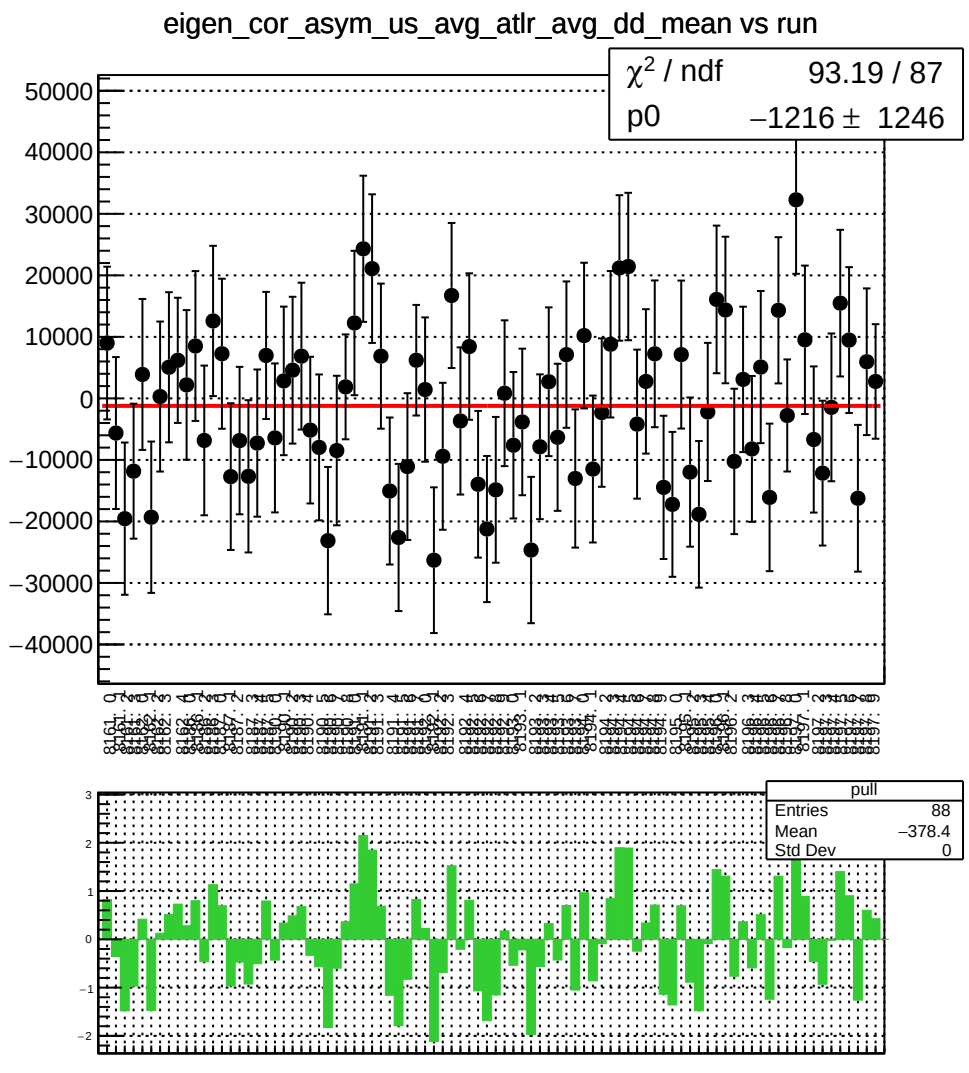

pull1D
Entries 88
Mean −0.006281
Std Dev 1.029

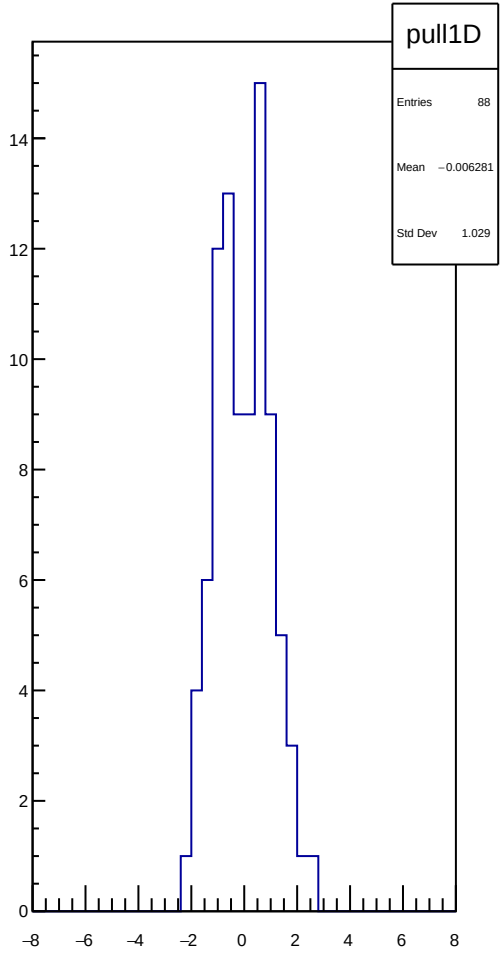

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 399.3 / 87
p0 1138 ± 0.8814
1220
1200
1180
1160
1140
1120
1100

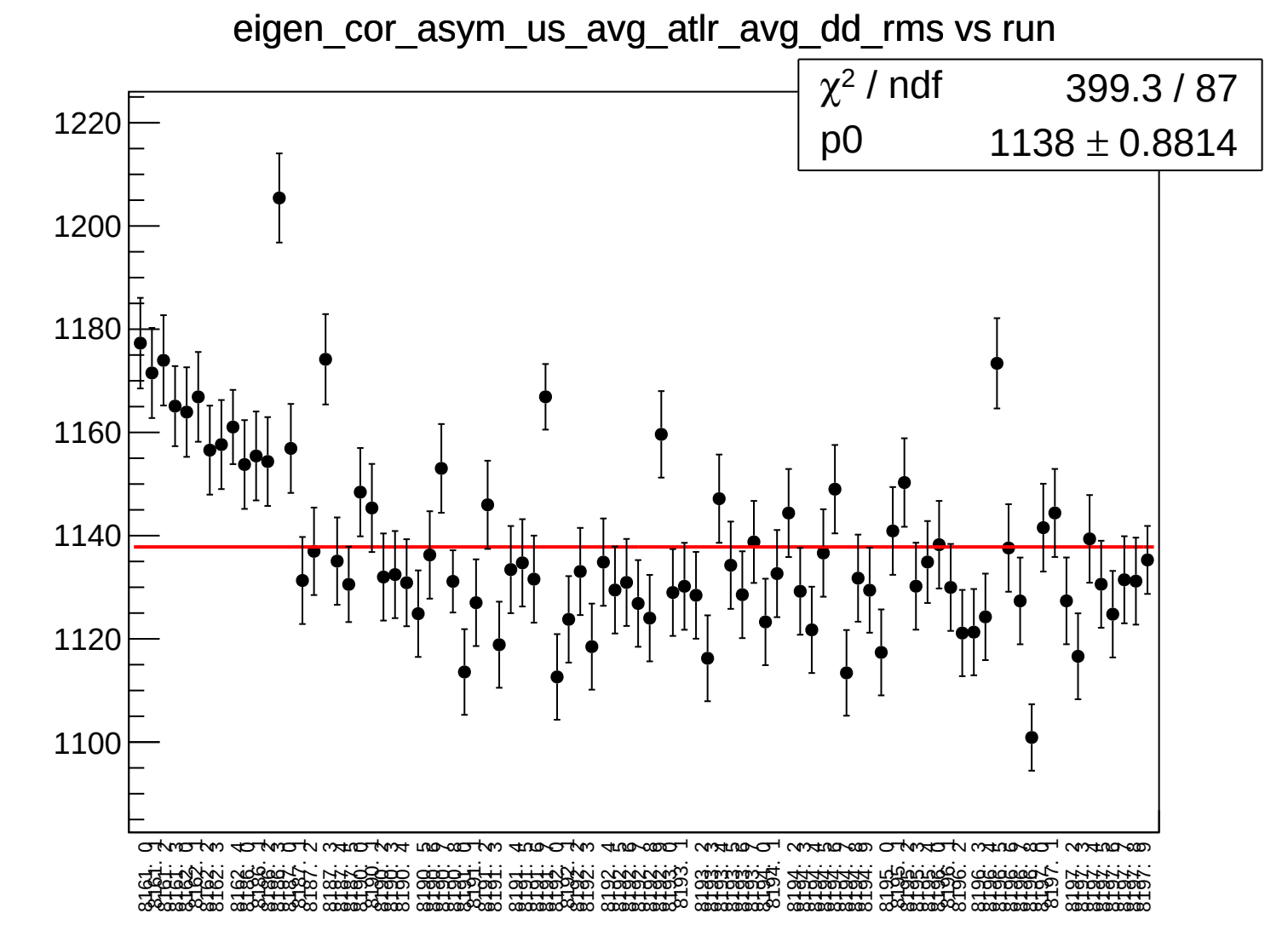

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 79.15 / 87
p0 −1116 ± 5510
pull
Entries 88
Mean −253.7
Std Dev 0

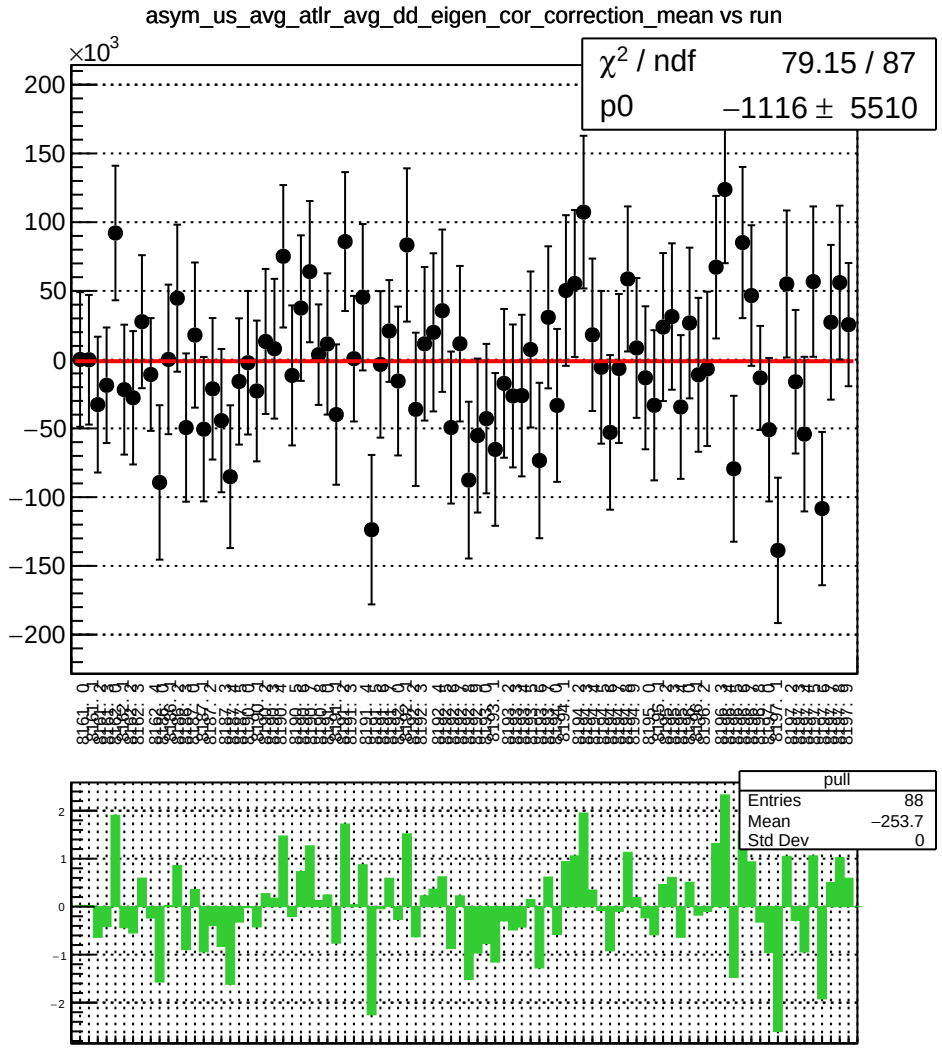

pull1D
Entries 88
Mean −0.005814
Std Dev 0.9484

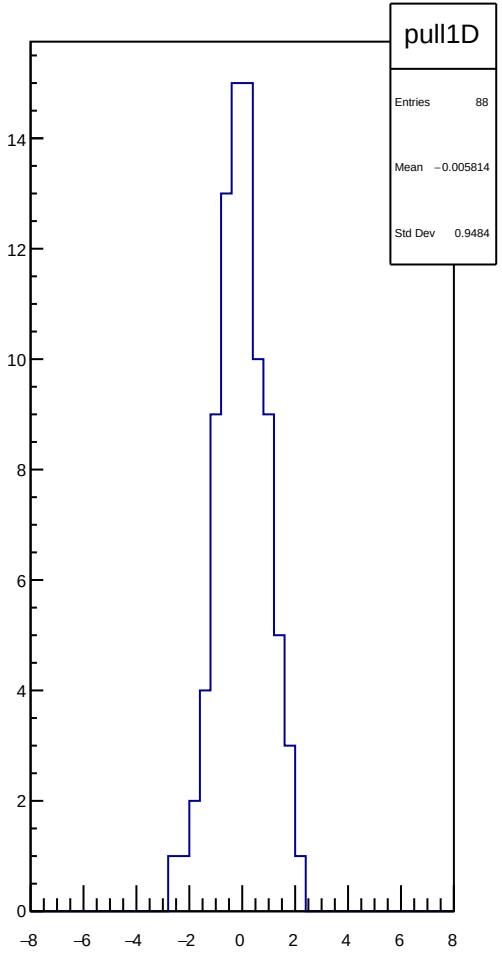

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 5073 / 87
p0 5022 ± 3.896
5600
5400
5200
5000
4800
4600
4400
4200

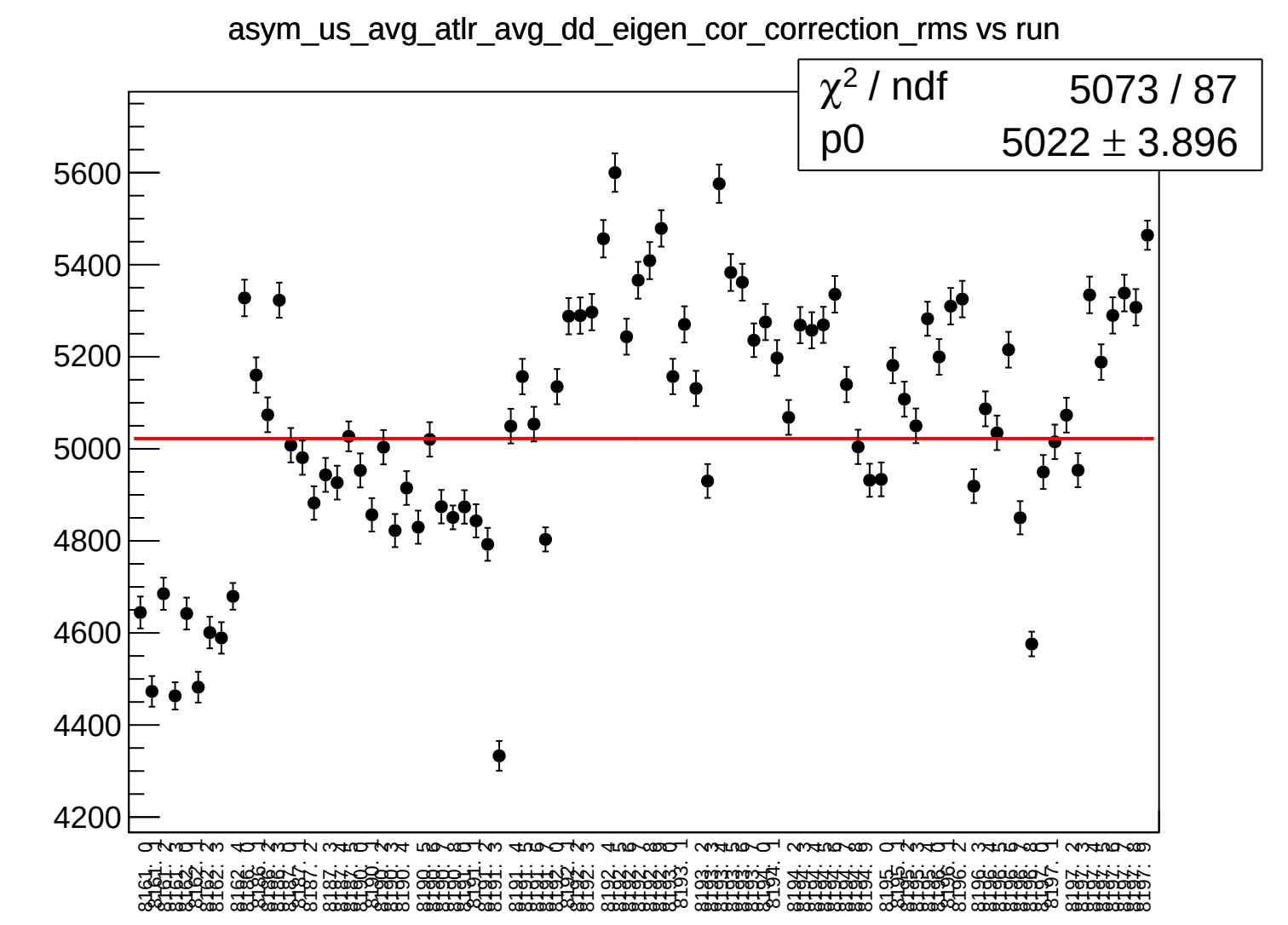

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 93.19 / 87
p0 −1216 ± 1246
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −378.4
Std Dev 0
3
2
1
0
−1
−2

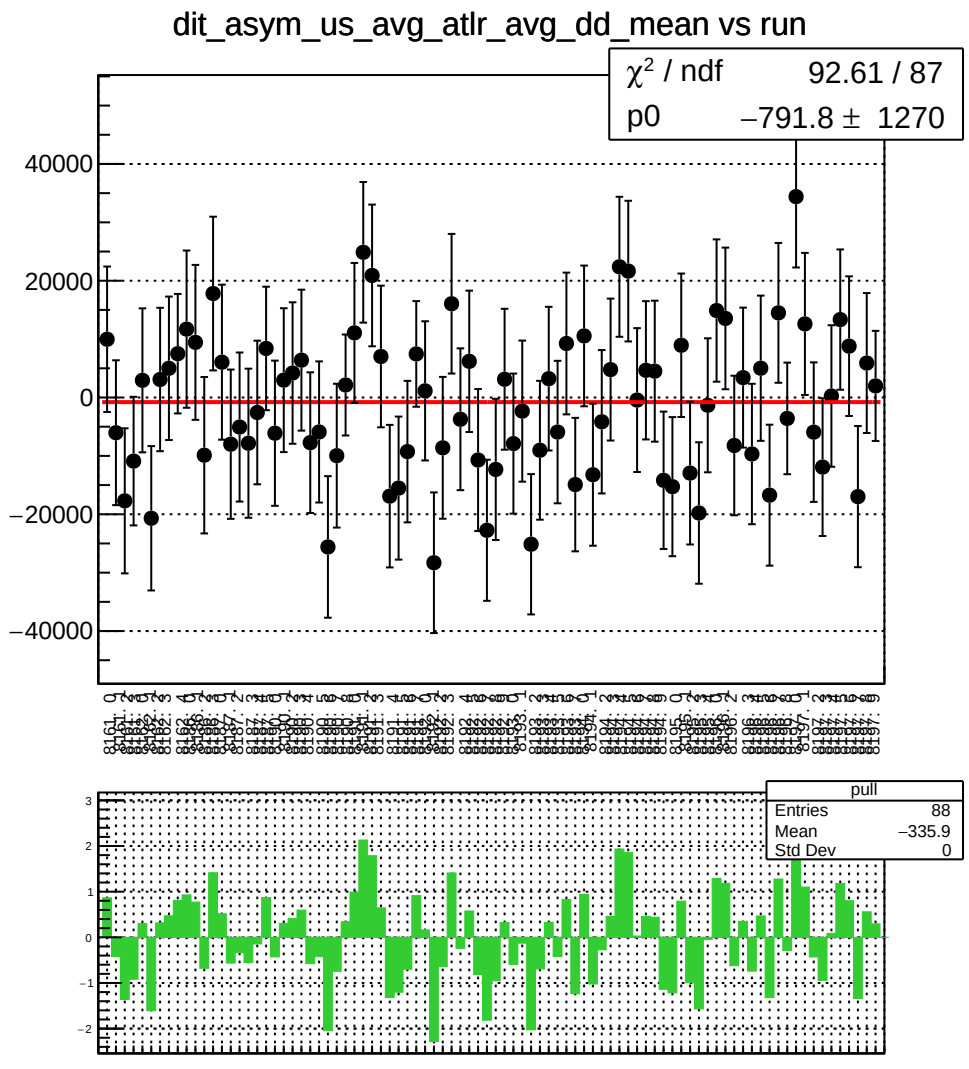

pull1D
Entries 88
Mean −0.006281
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

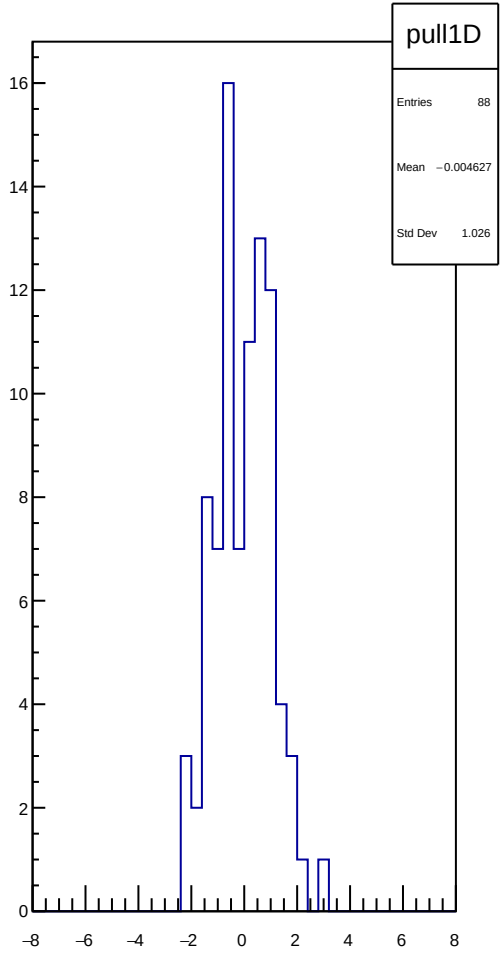

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 399.3 / 87
p0 1138 ± 0.8814
1220
1200
1180
1160
1140
1120
1100

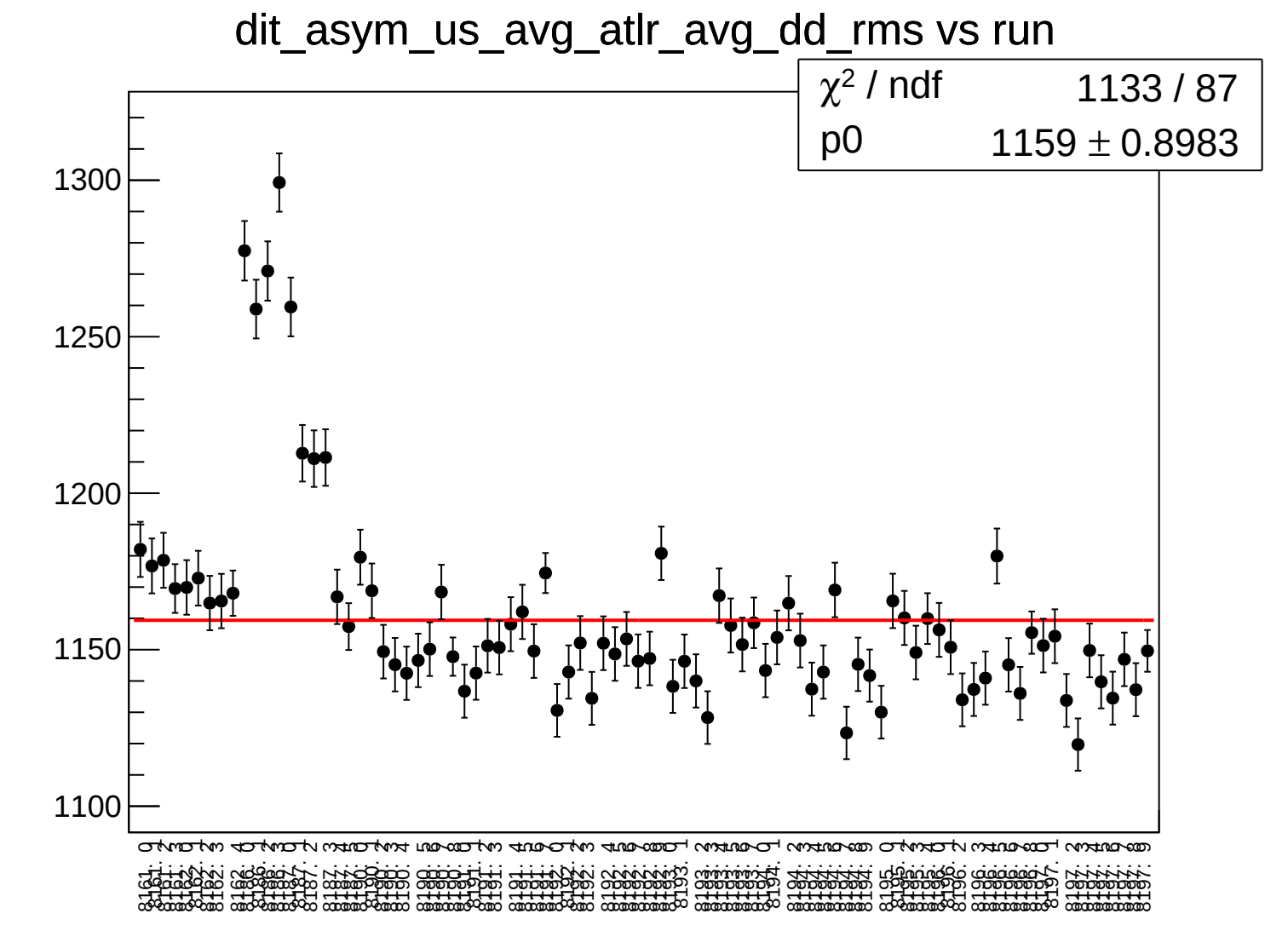

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 79.15 / 87
p0 −1116 ± 5510
pull
Entries 88
Mean −253.7
Std Dev 0

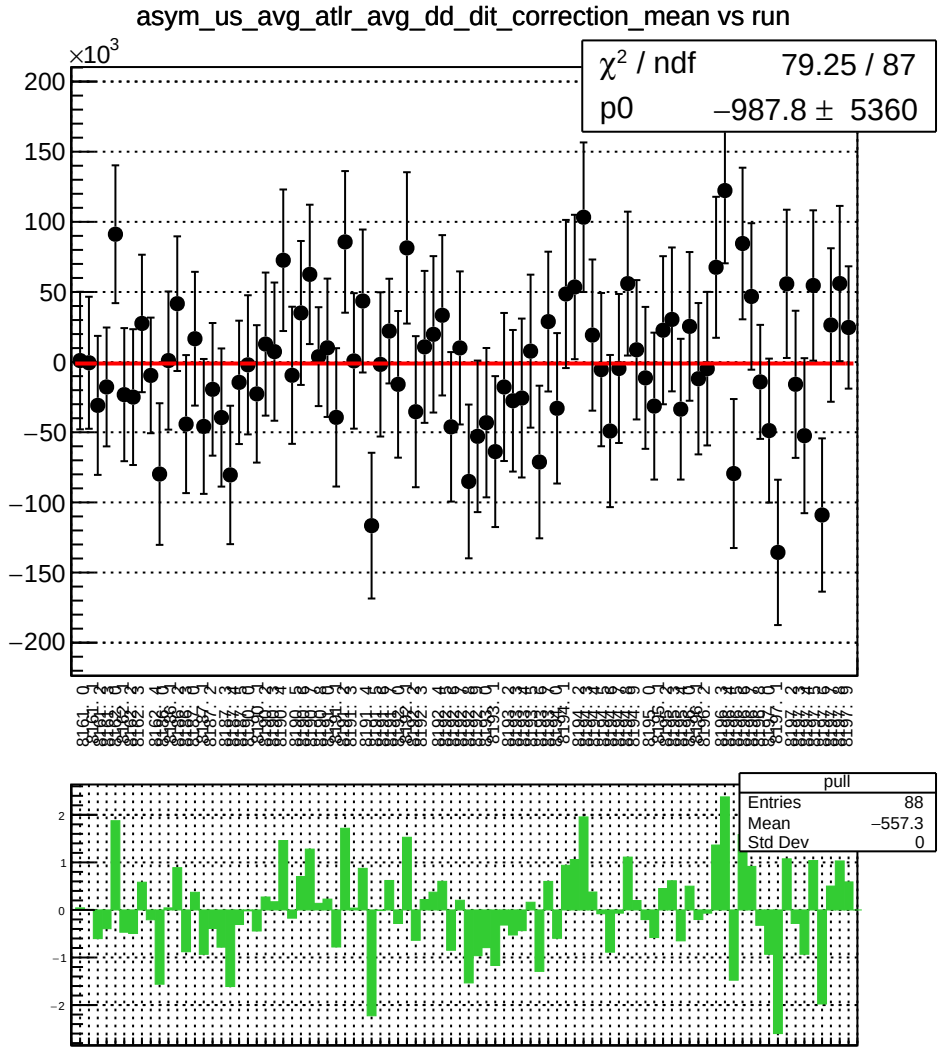

pull1D
Entries 88
Mean −0.005814
Std Dev 0.9484

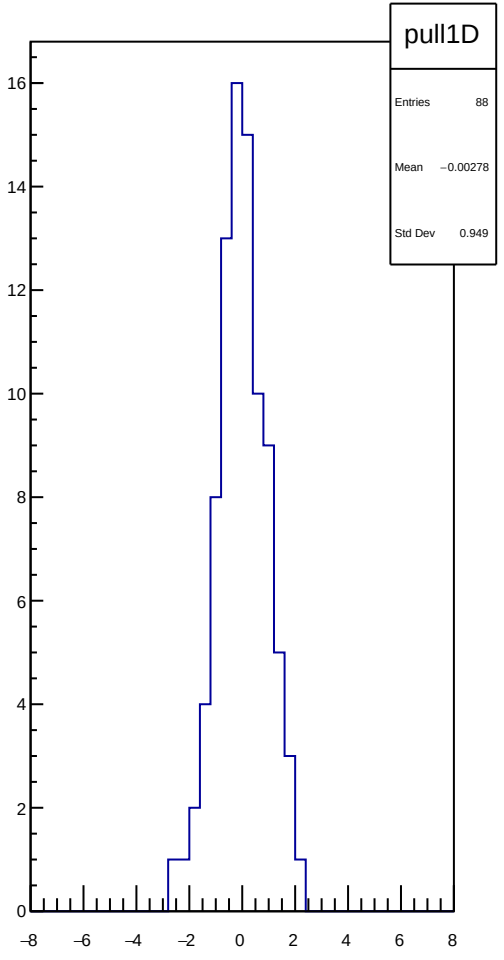

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5073 / 87
p0 5022 ± 3.896
5600
5400
5200
5000
4800
4600
4400
4200

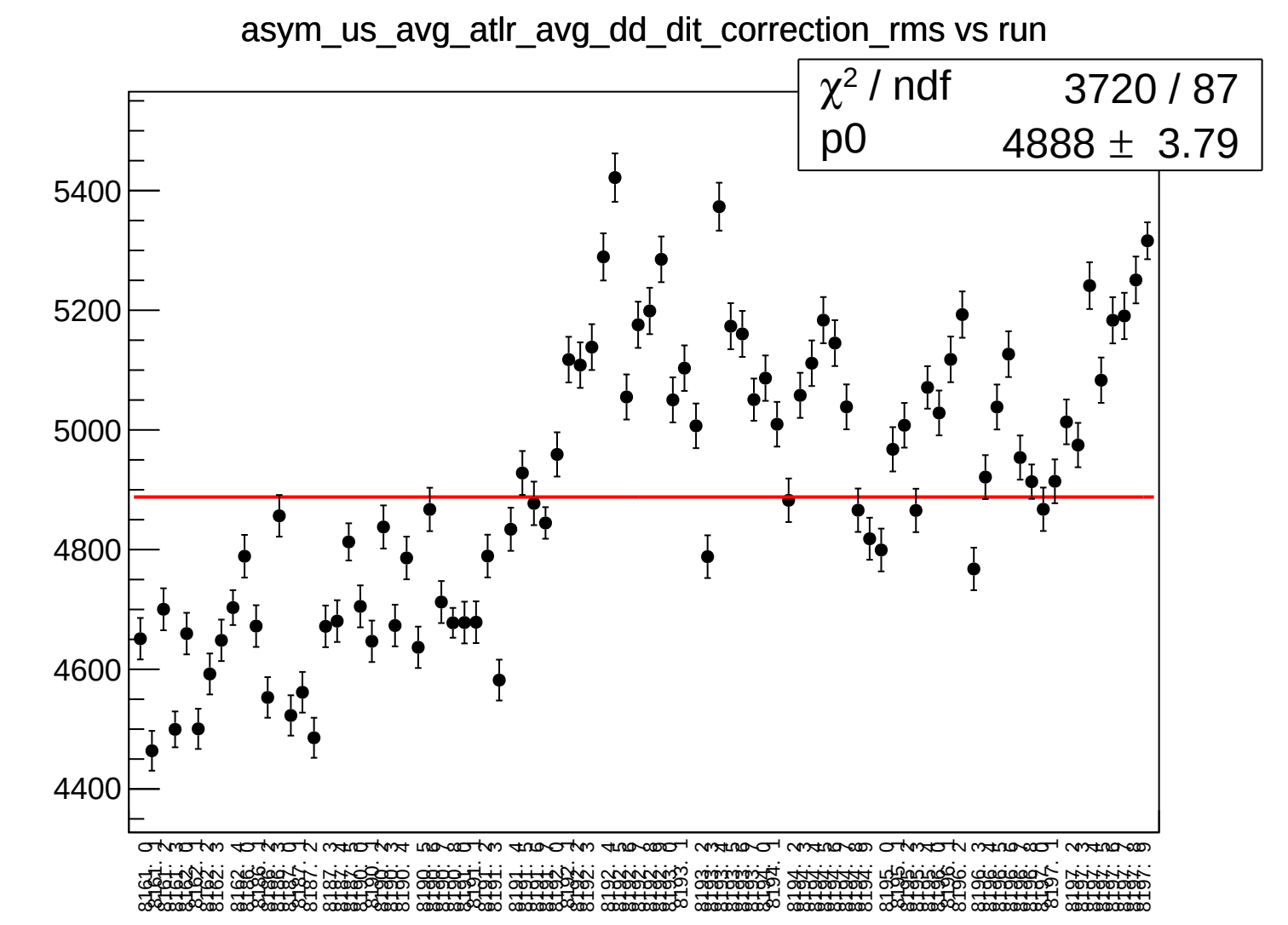

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 92.61 / 87
p0 −791.8 ± 1270
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −335.9
Std Dev 0
3
2
1
0
−1
−2

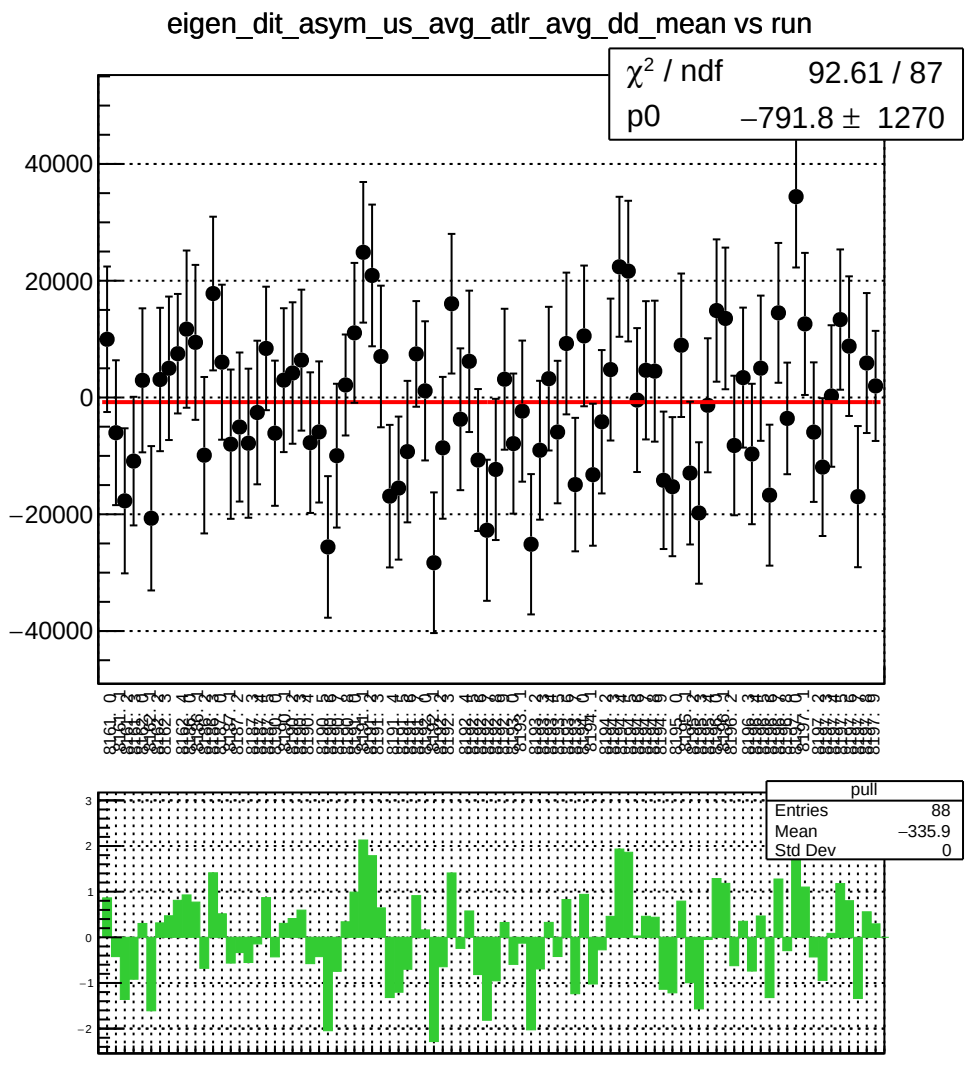

pull1D
Entries 88
Mean −0.004627
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

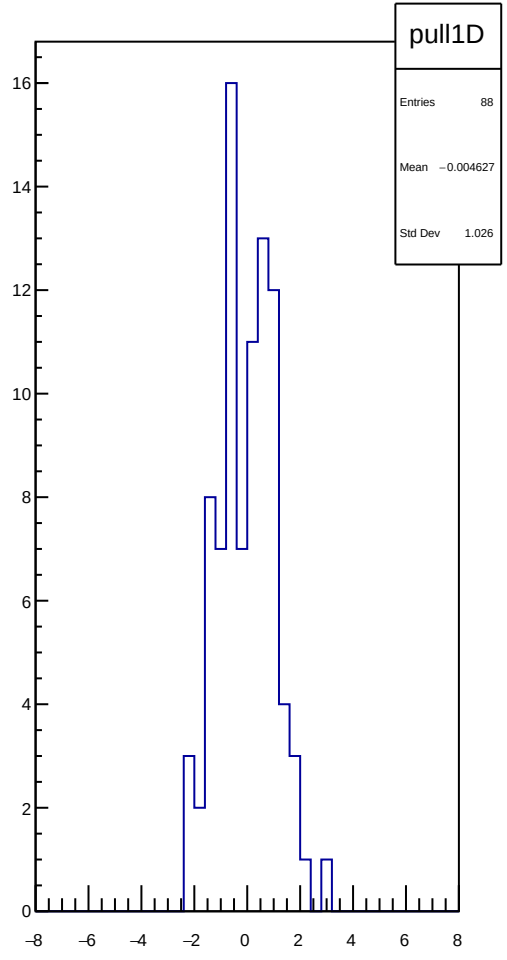

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1133 / 87
p0 1159 ± 0.8983
1300
1250
1200
1150
1100

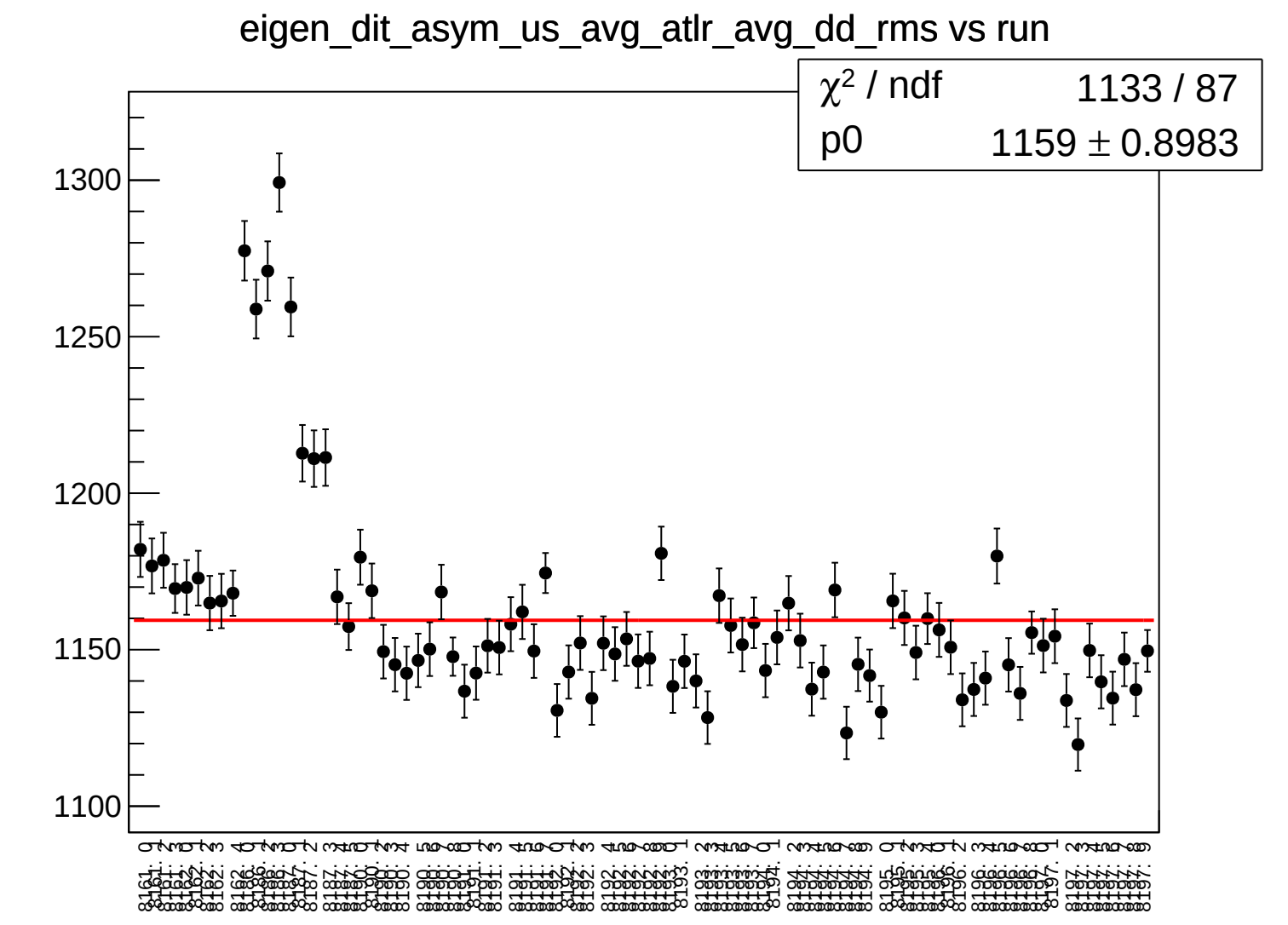

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.25 / 87
p0 −987.8 ± 5360
pull
Entries 88
Mean −557.3
Std Dev 0

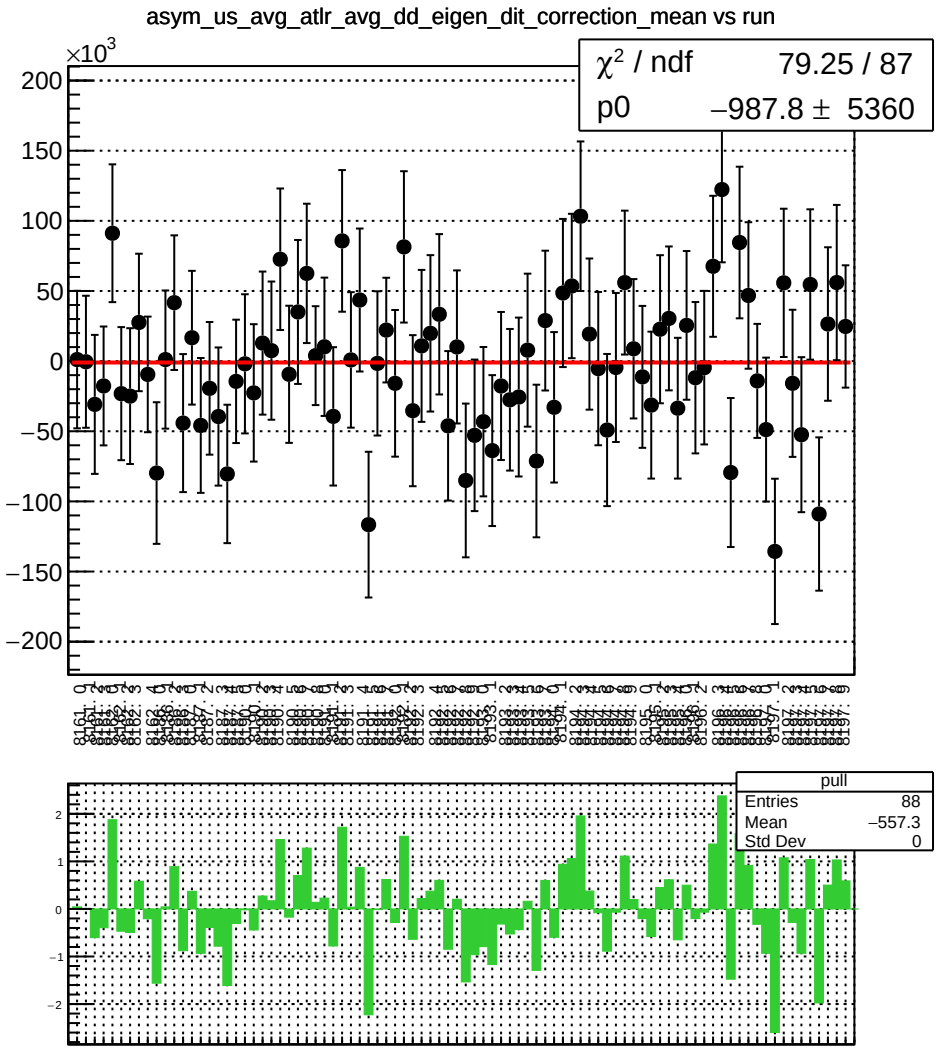

pull1D
Entries 88
Mean −0.00278
Std Dev 0.949

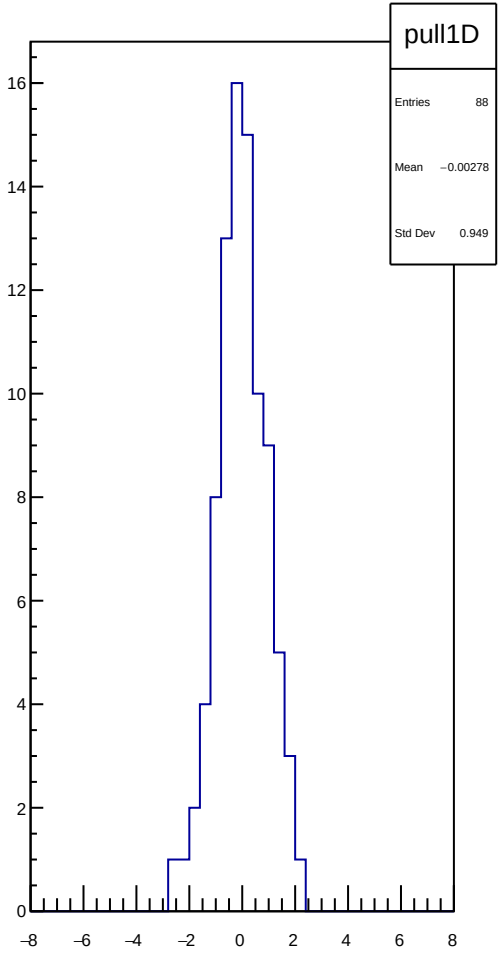

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 3720 / 87
p0 4888 ± 3.79
5400
5200
5000
4800
4600
4400

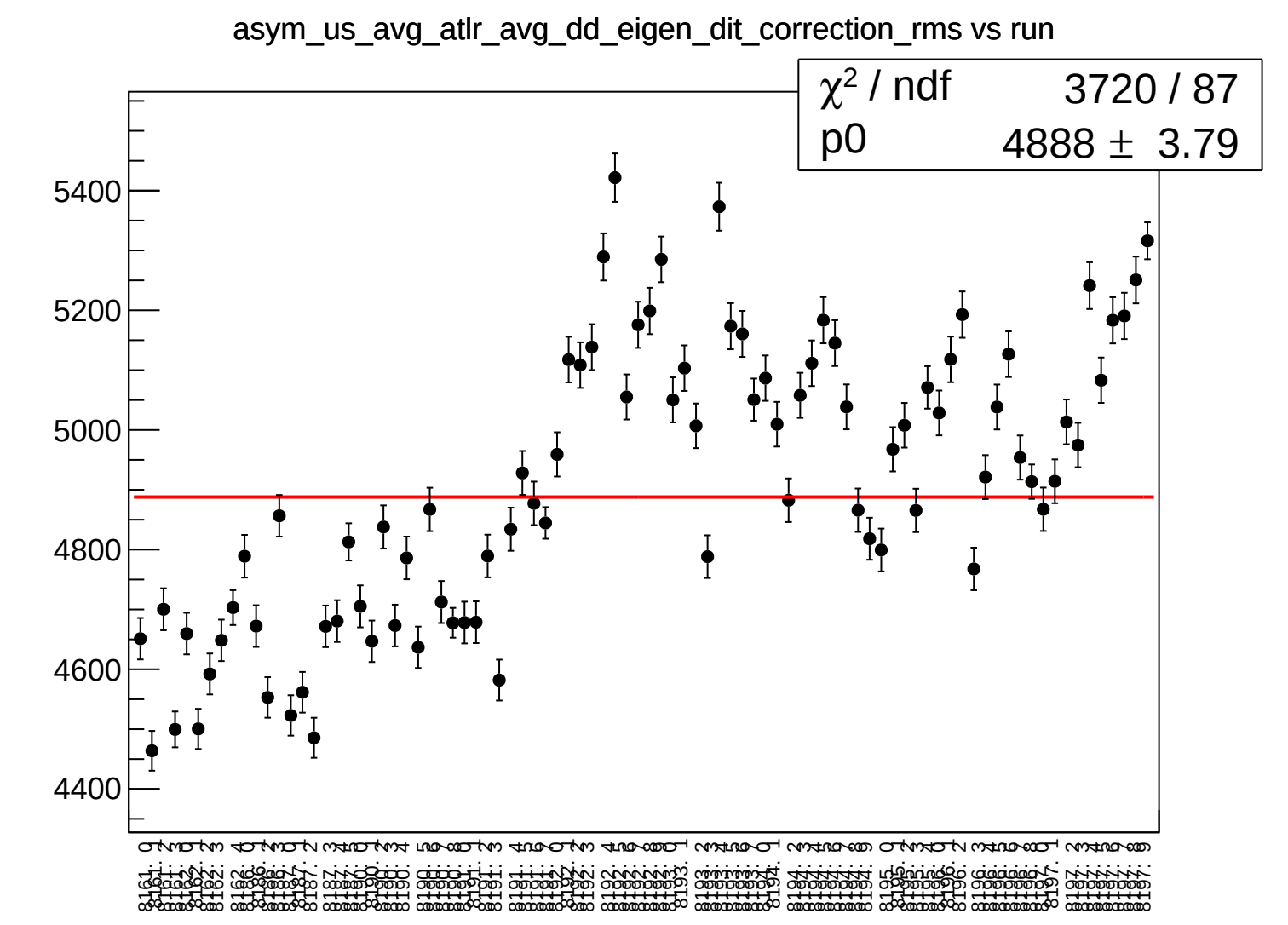

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 92.61 / 87
p0 −791.8 ± 1270
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −335.9
Std Dev 0
3
2
1
0
−1
−2

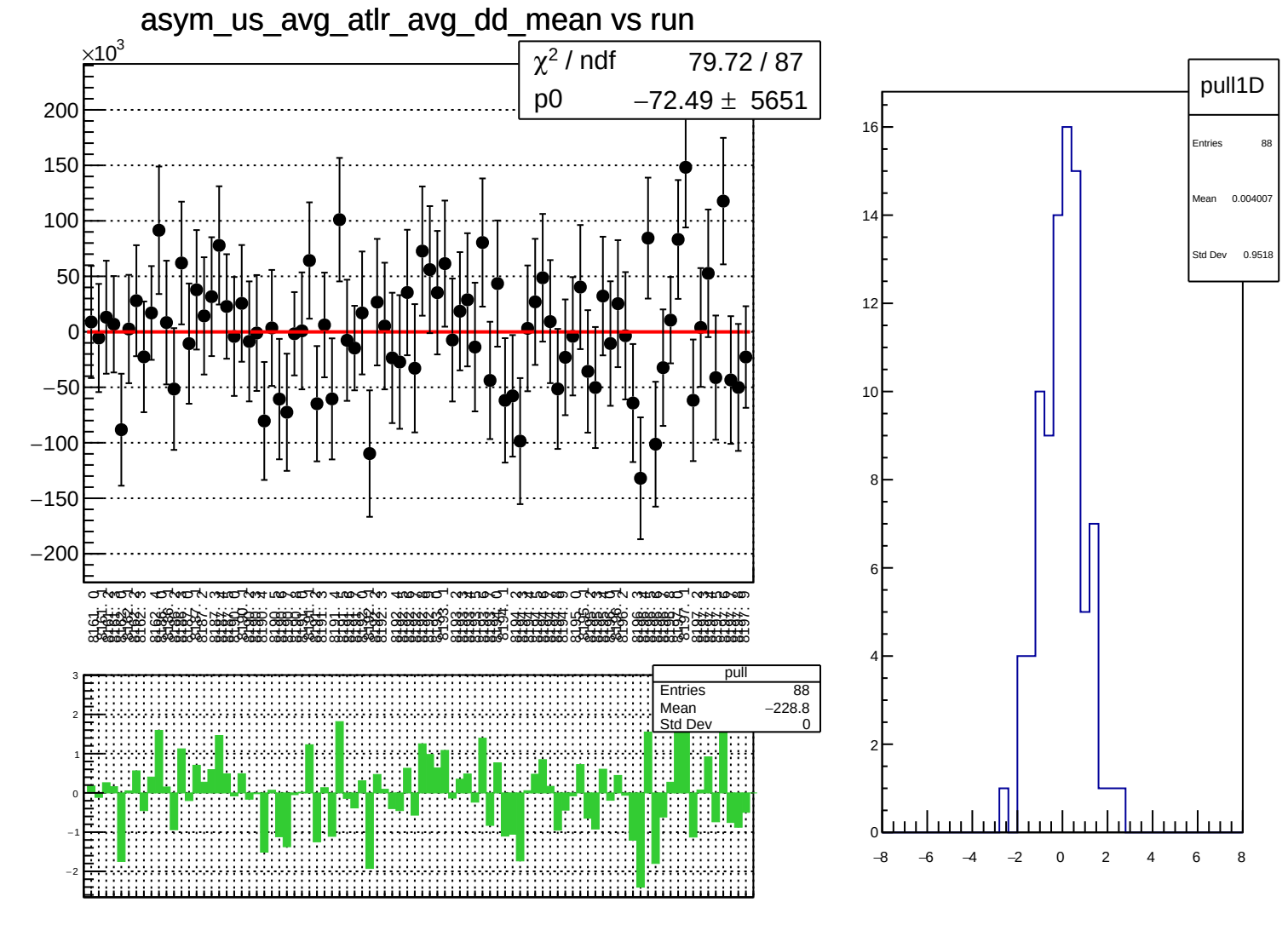

pull1D
Entries 88
Mean −0.004627
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

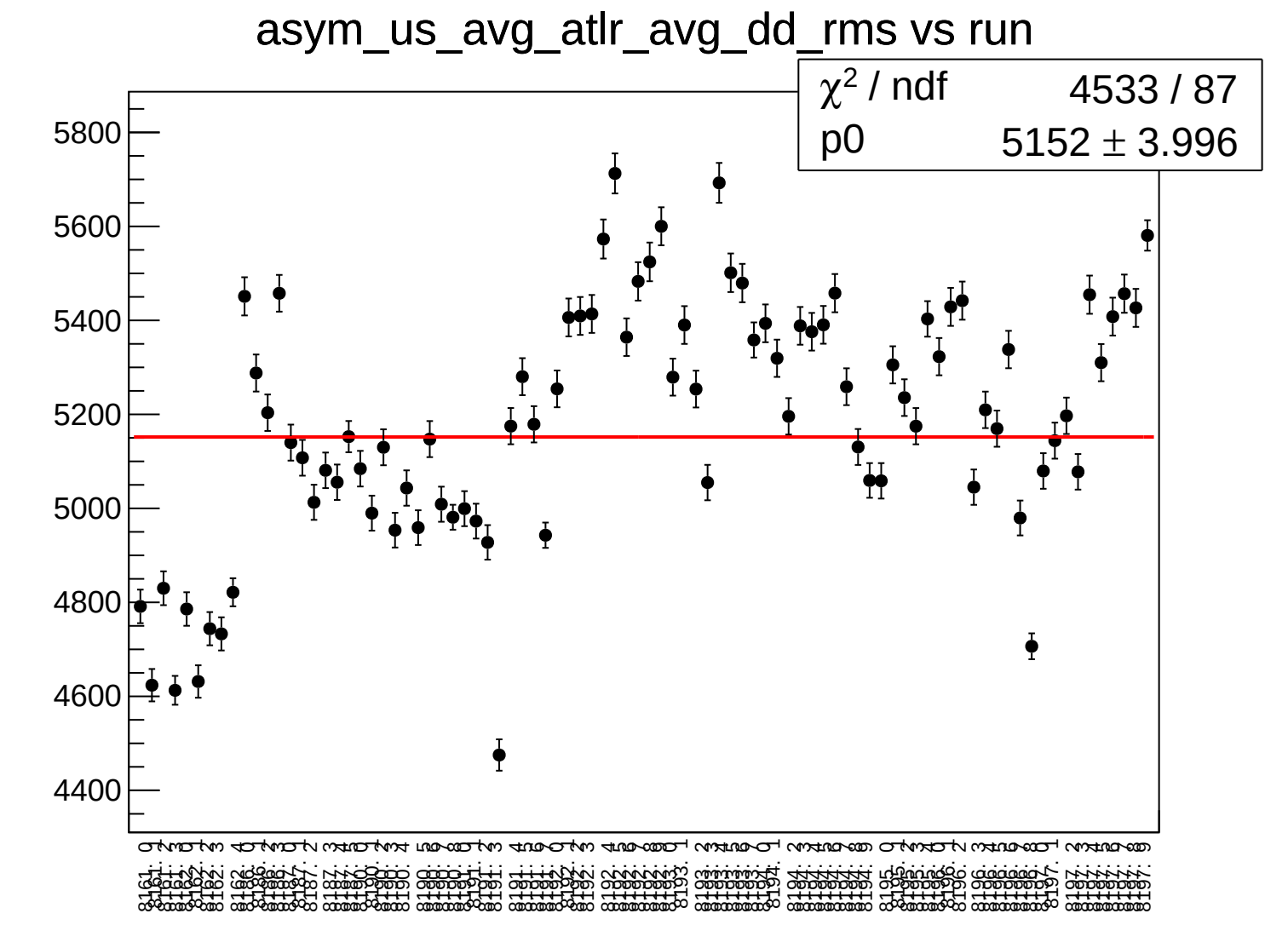

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1133 / 87
p0 1159 ± 0.8983
1300
1250
1200
1150
1100

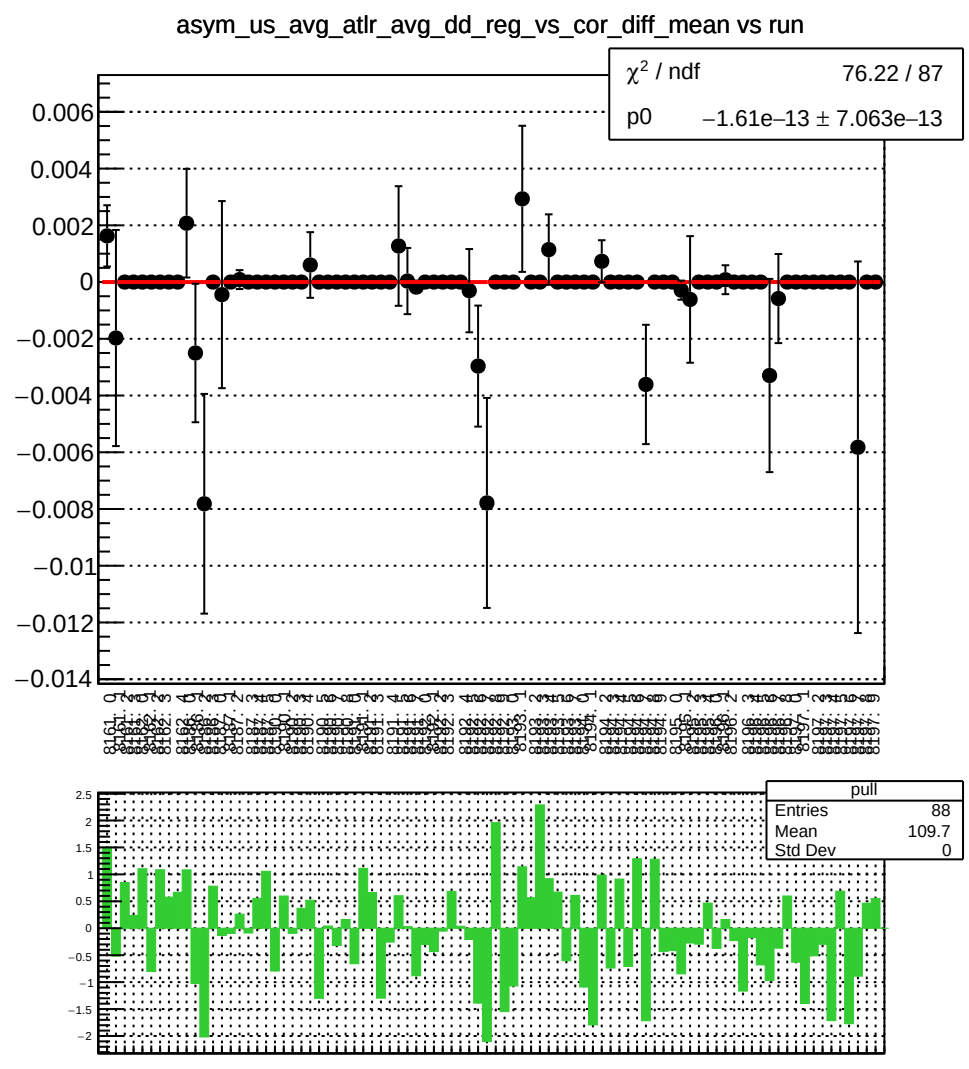

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.25 / 87
p0 −987.8 ± 5360
pull
Entries 88
Mean −557.3
Std Dev 0

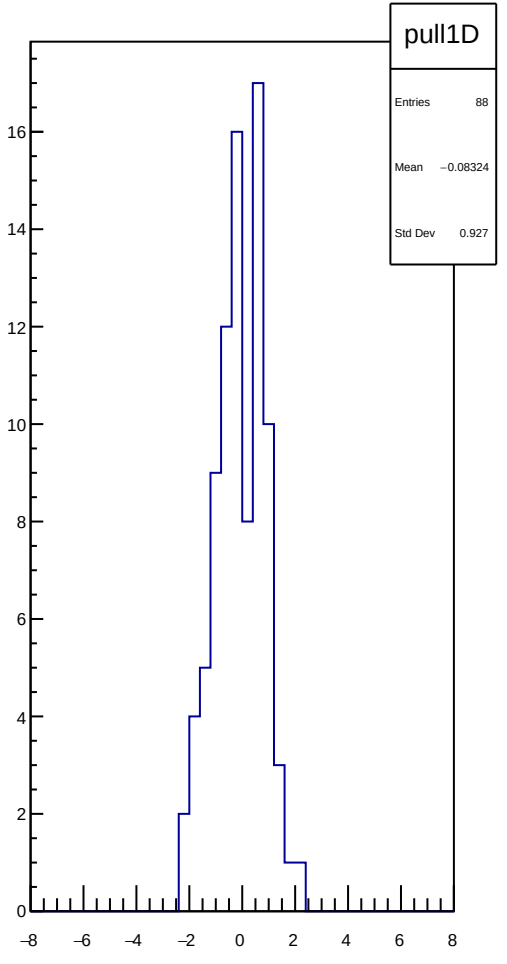

pull1D
Entries 88
Mean −0.00278
Std Dev 0.949

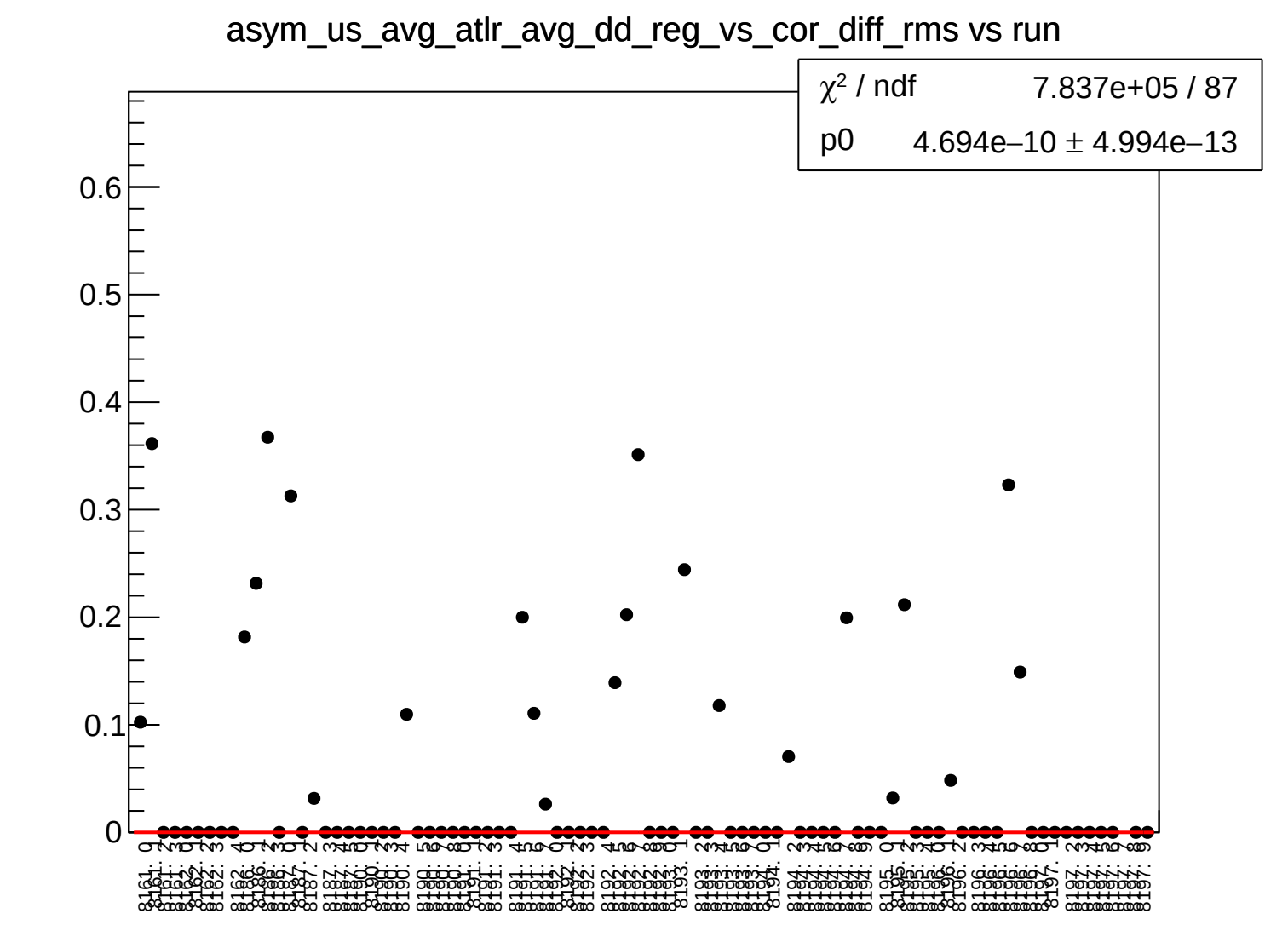

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3720 / 87
p0 4888 ± 3.79
5400
5200
5000
4800
4600
4400

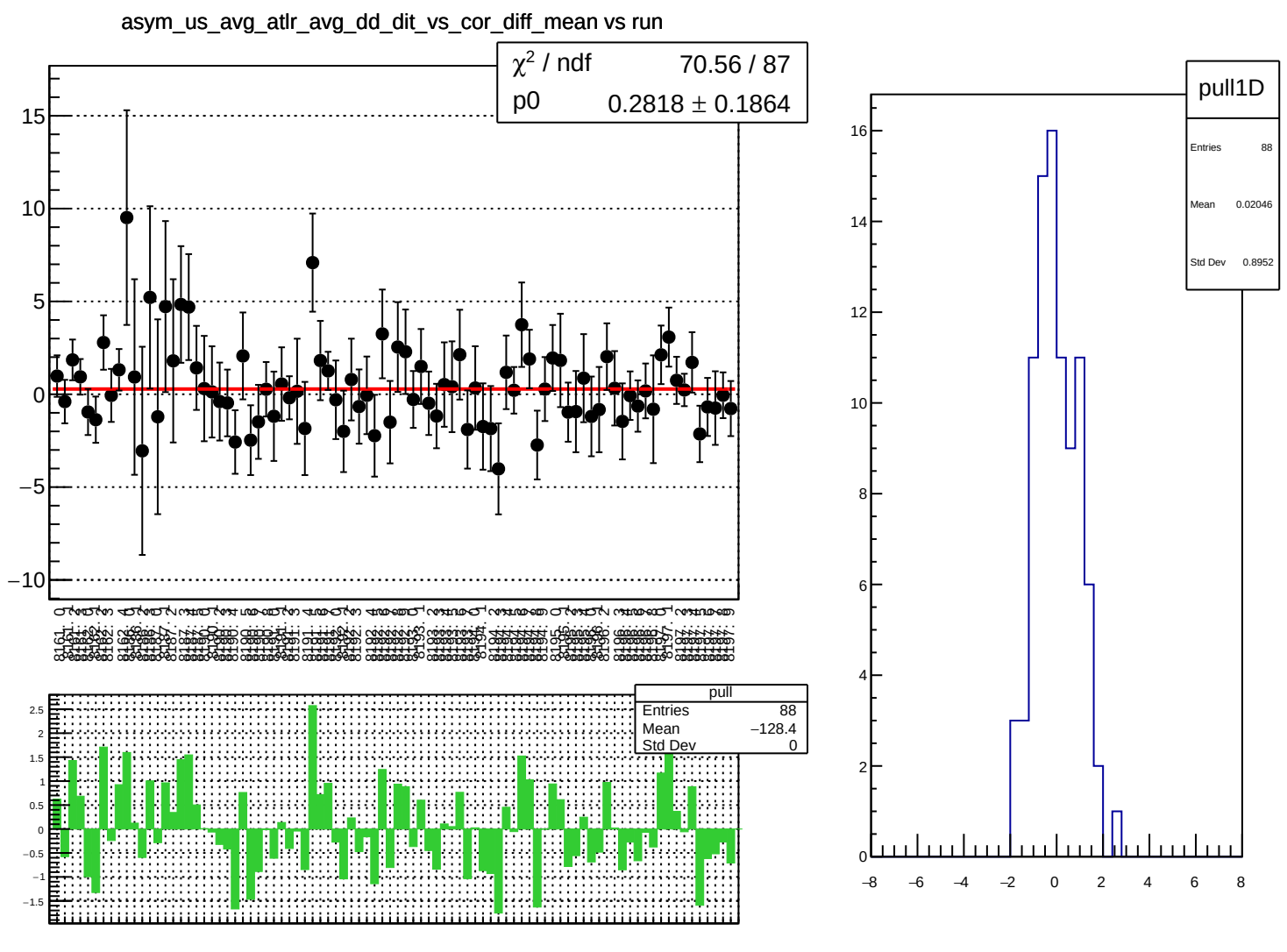

asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.72 / 87
p0 −72.49 ± 5651
×10³
pull
Entries 88
Mean −228.8
Std Dev 0
pull1D
Entries 88
Mean 0.004007
Std Dev 0.9518

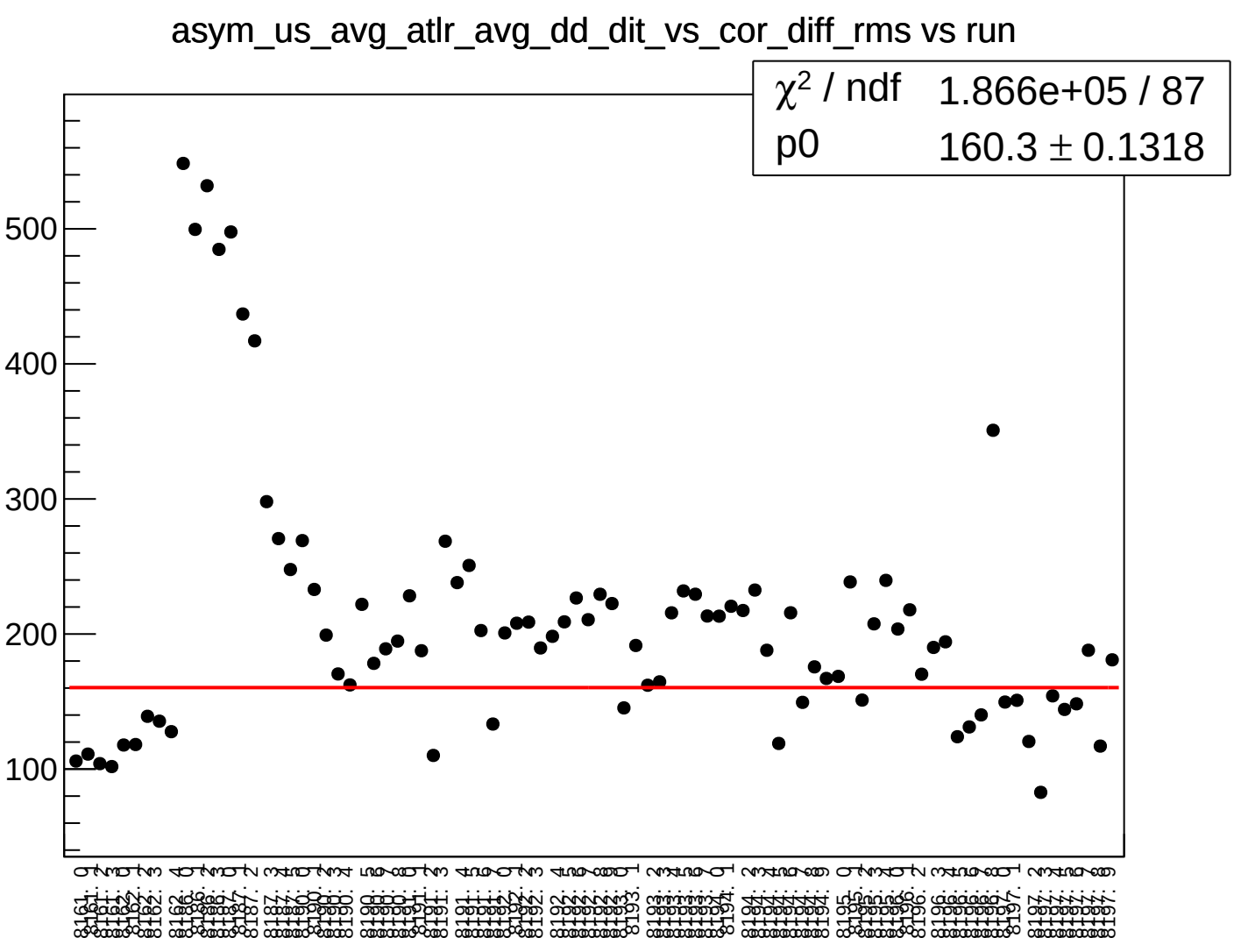

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 4533 / 87
p0 5152 ± 3.996
5800
5600
5400
5200
5000
4800
4600
4400

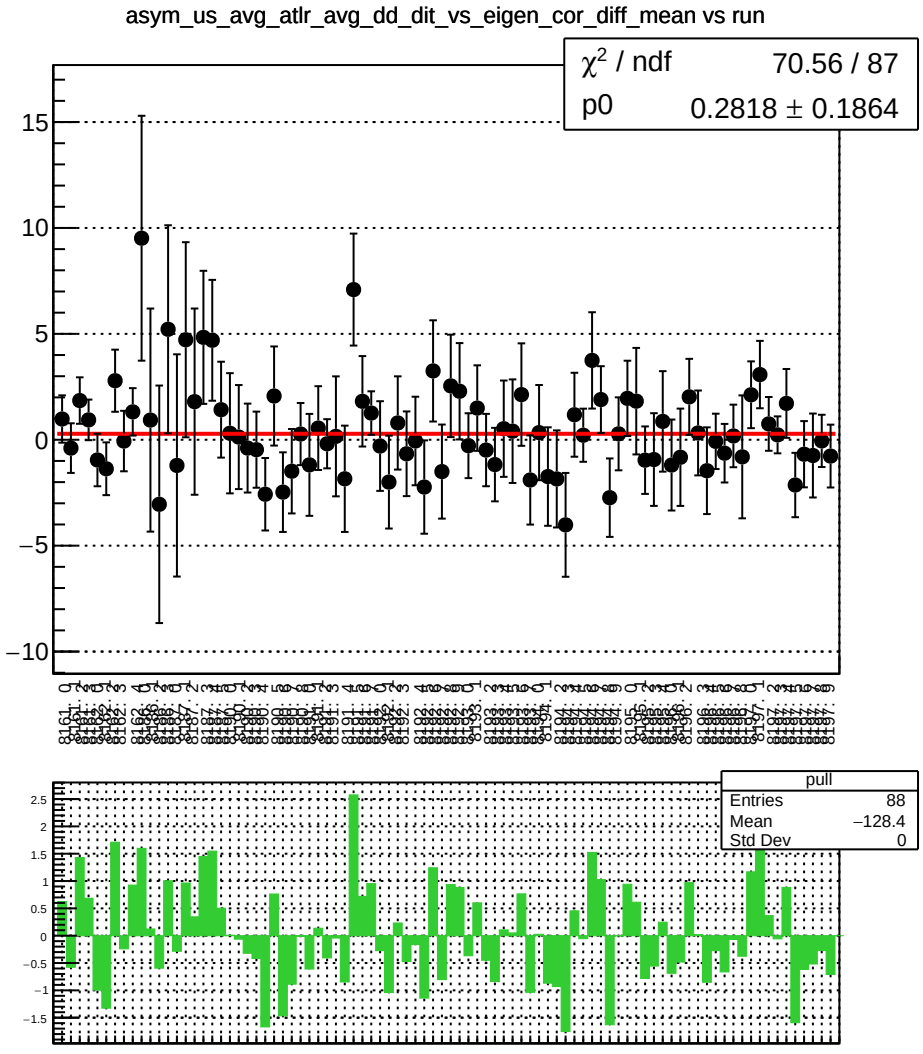

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.22 / 87
p0 −1.61e−13 ± 7.063e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
−0.014
pull
Entries 88
Mean 109.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

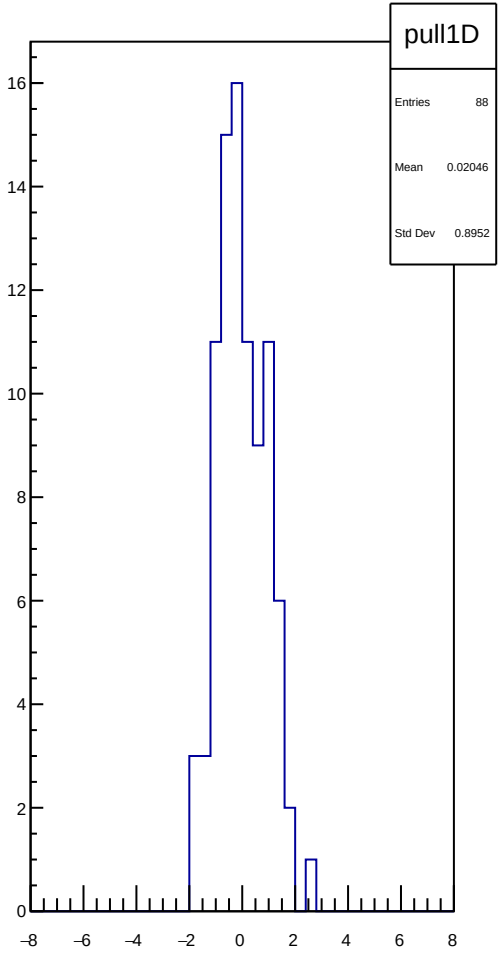

pull1D
Entries 88
Mean −0.08324
Std Dev 0.927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

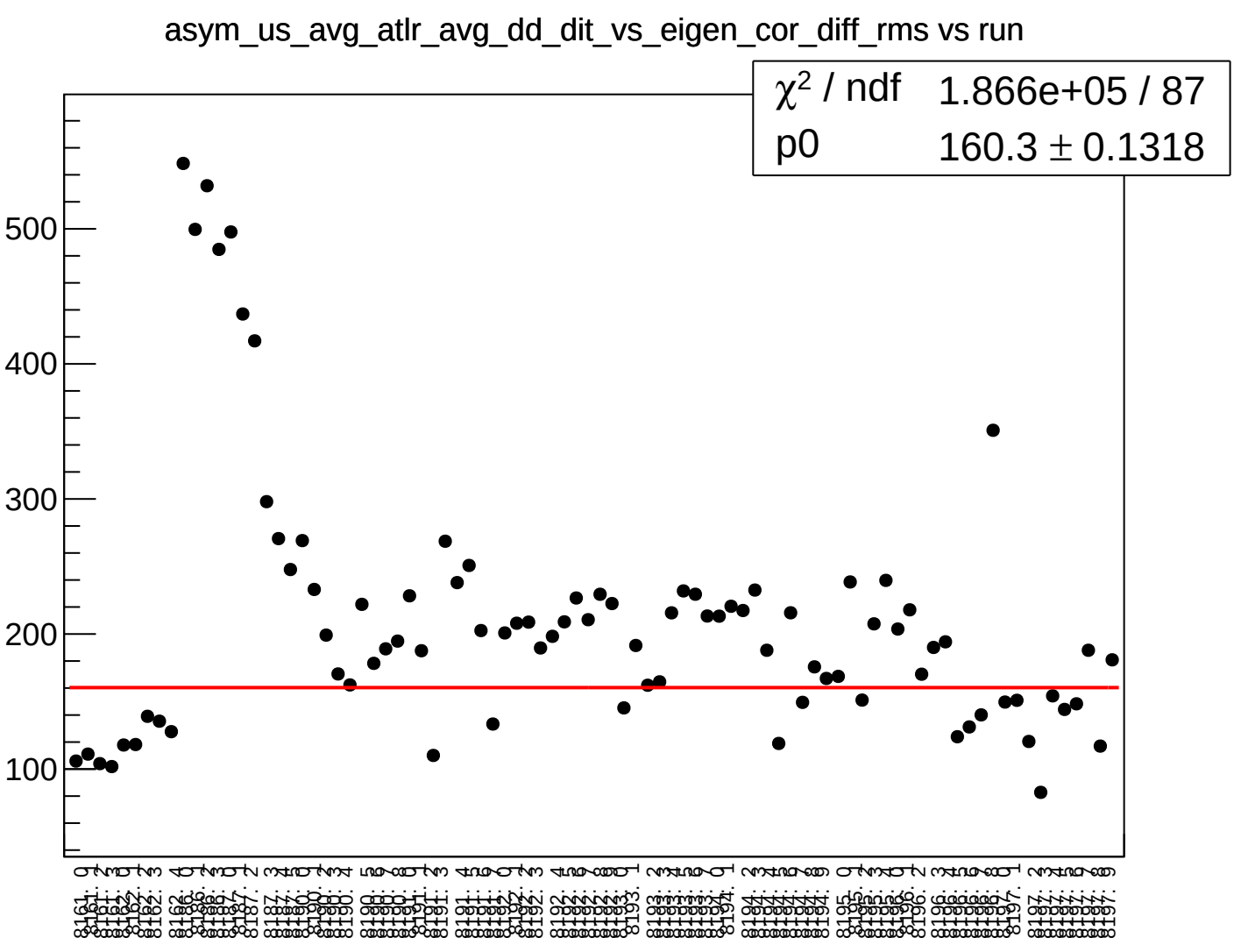

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.837e+05 / 87
p0 4.694e−10 ± 4.994e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

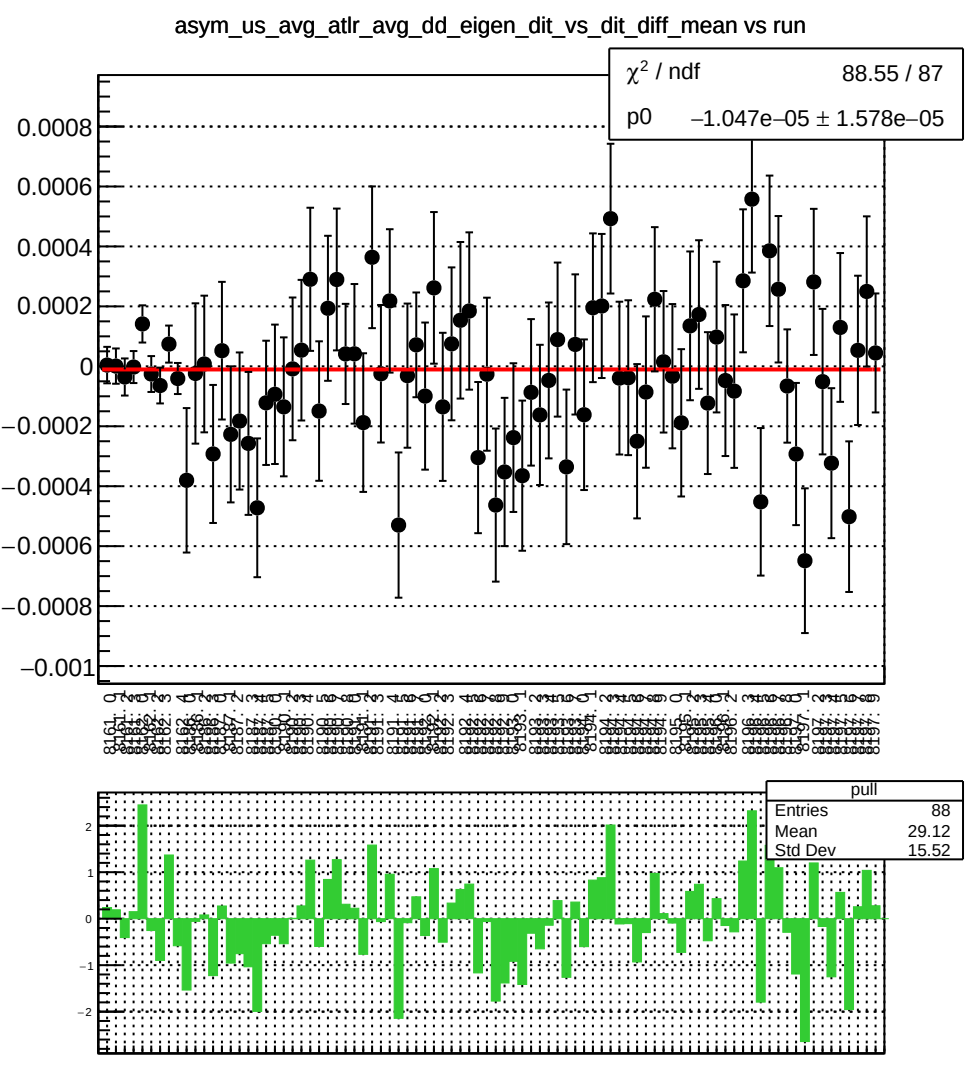

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.56 / 87
p0 0.2818 ± 0.1864
pull
Entries 88
Mean −128.4
Std Dev 0
pull1D
Entries 88
Mean 0.02046
Std Dev 0.8952

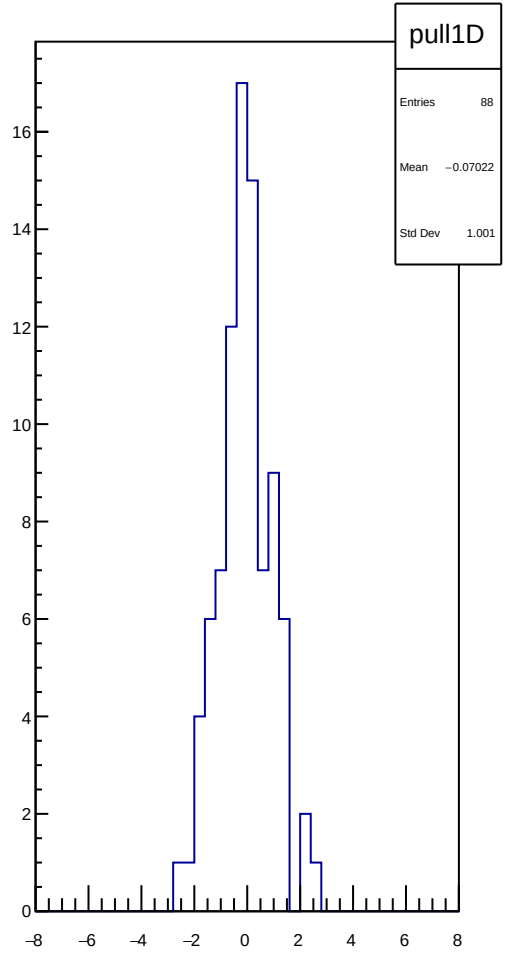

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.866e+05 / 87
p0 160.3 ± 0.1318
500
400
300
200
100

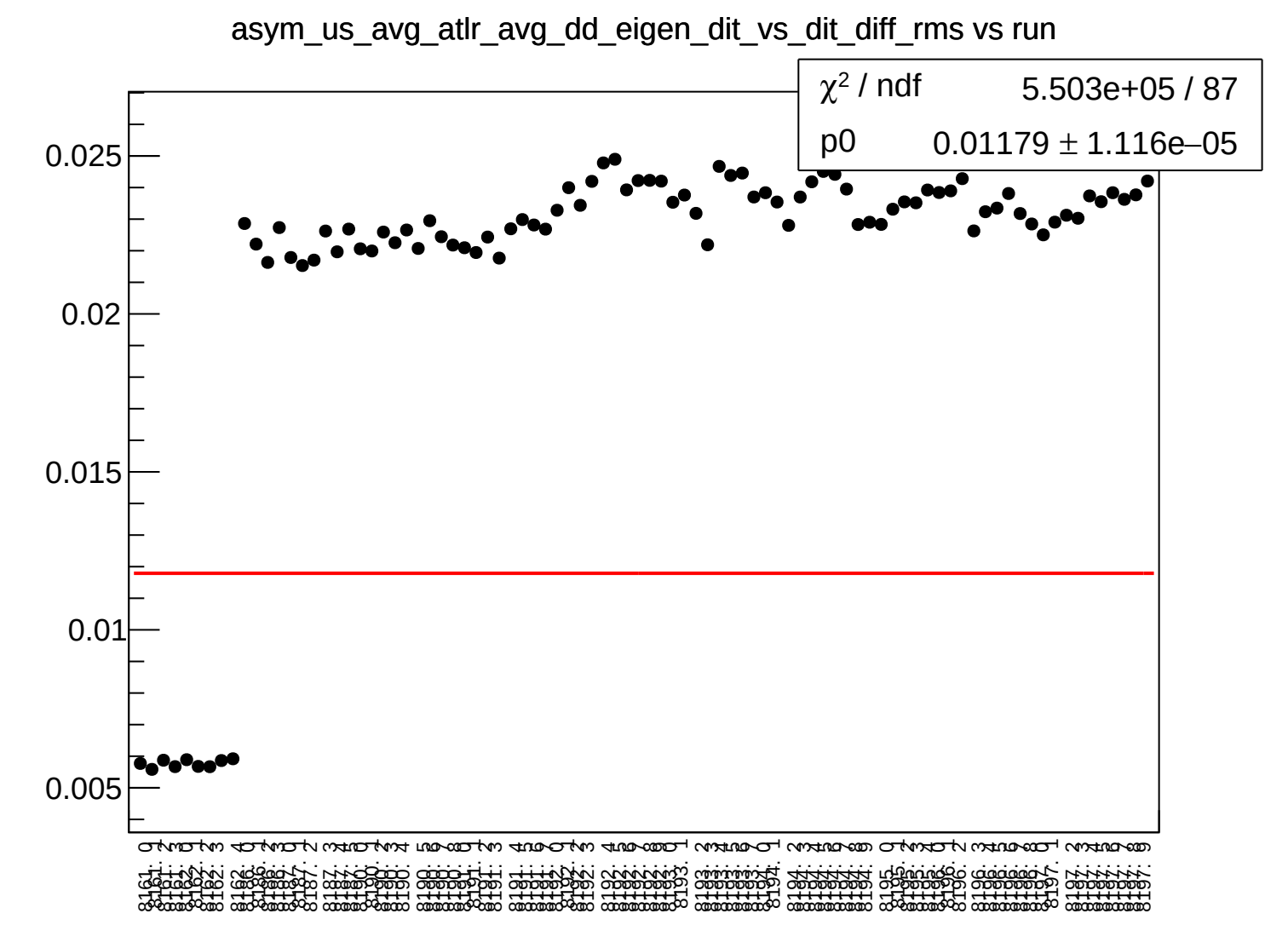

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.56 / 87
p0 0.2818 ± 0.1864
pull
Entries 88
Mean −128.4
Std Dev 0

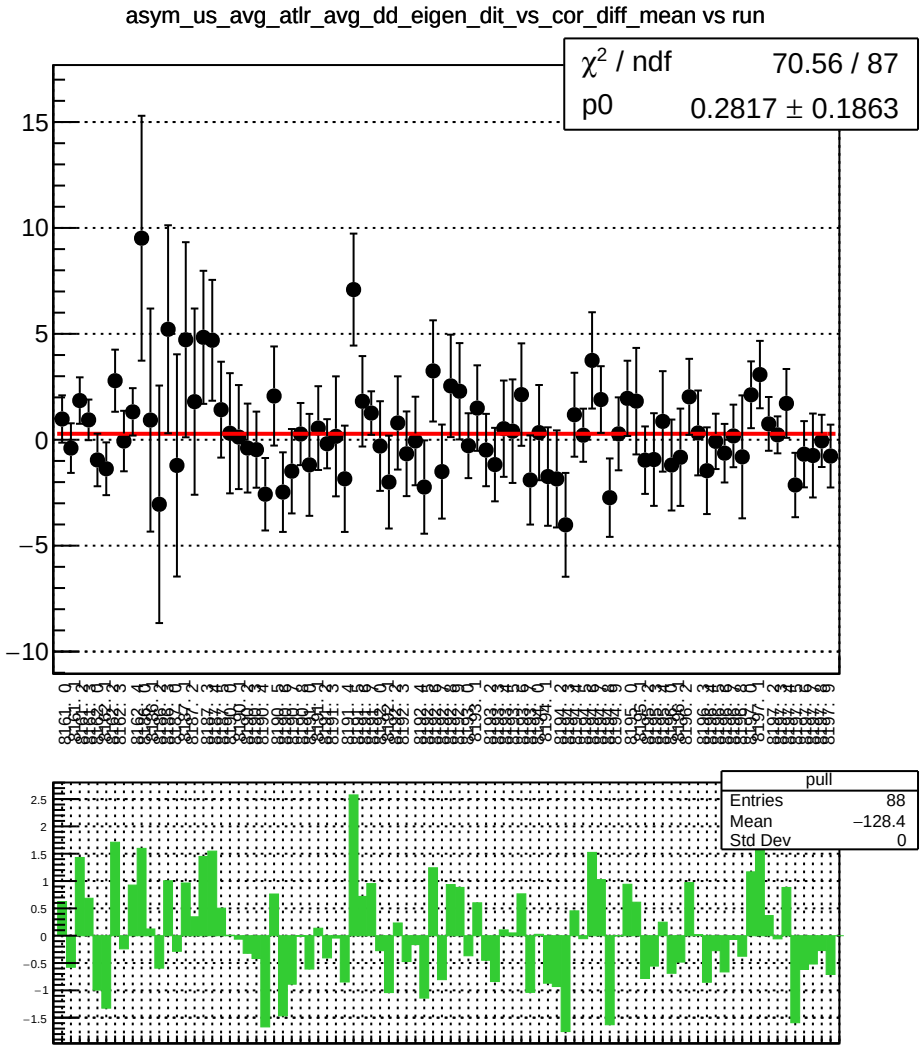

pull1D
Entries 88
Mean 0.02046
Std Dev 0.8952

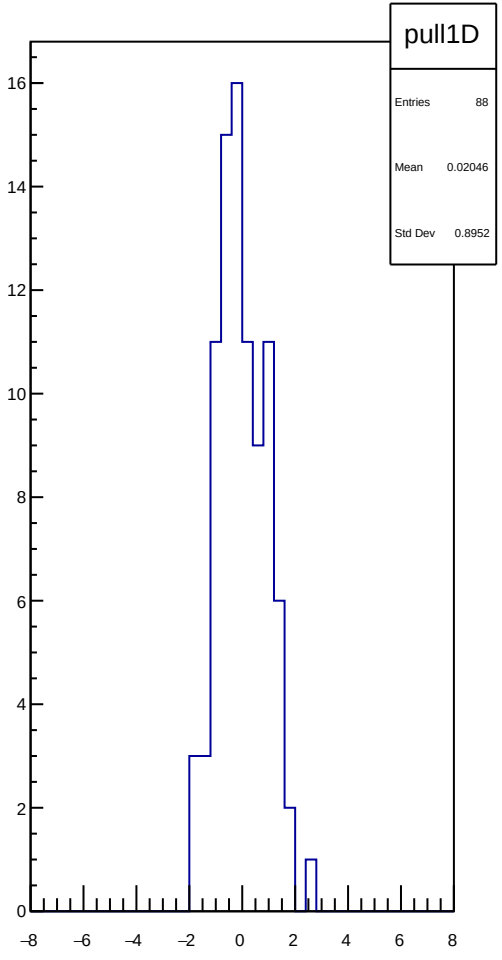

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.866e+05 / 87
p0 160.3 ± 0.1318
500
400
300
200
100

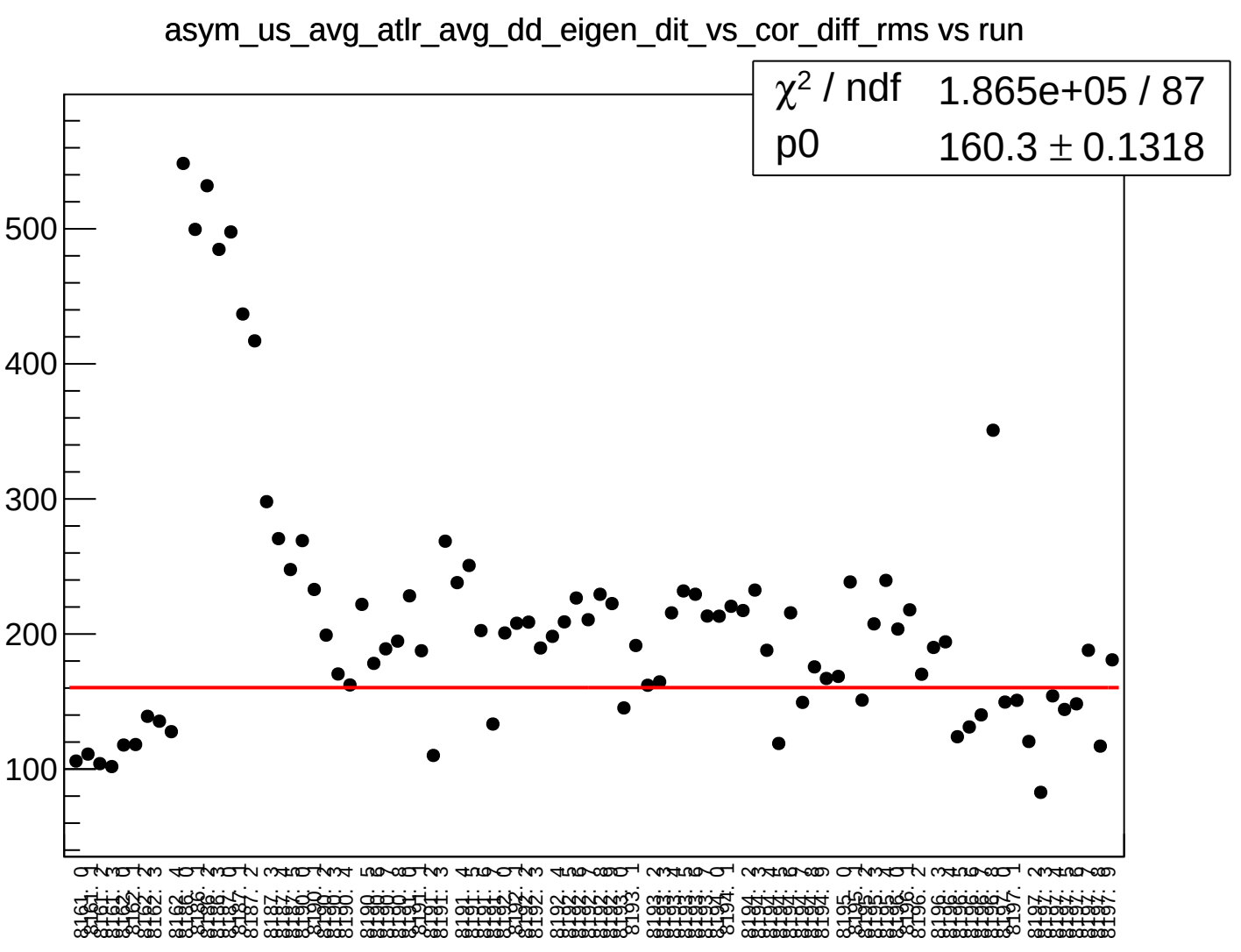

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.55 / 87
p0 −1.047e−05 ± 1.578e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 29.12
Std Dev 15.52
2
1
0
−1
−2

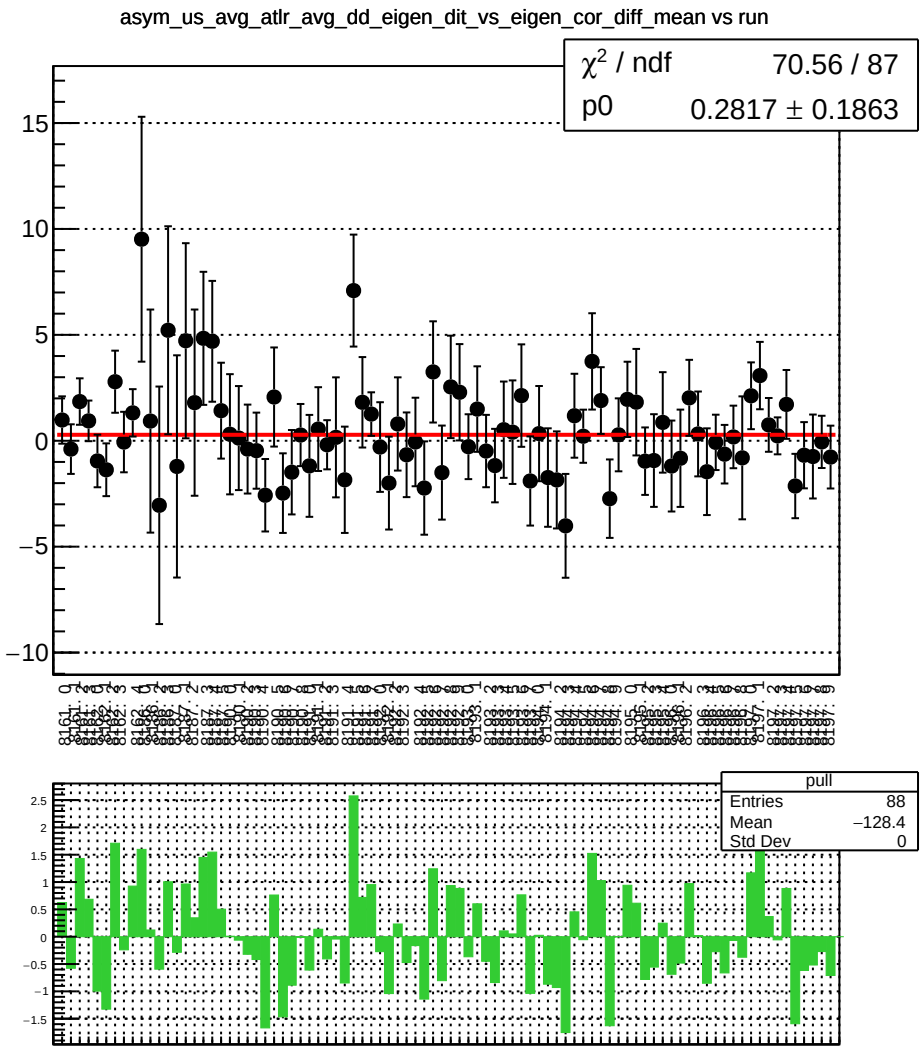

pull1D
Entries 88
Mean −0.07022
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

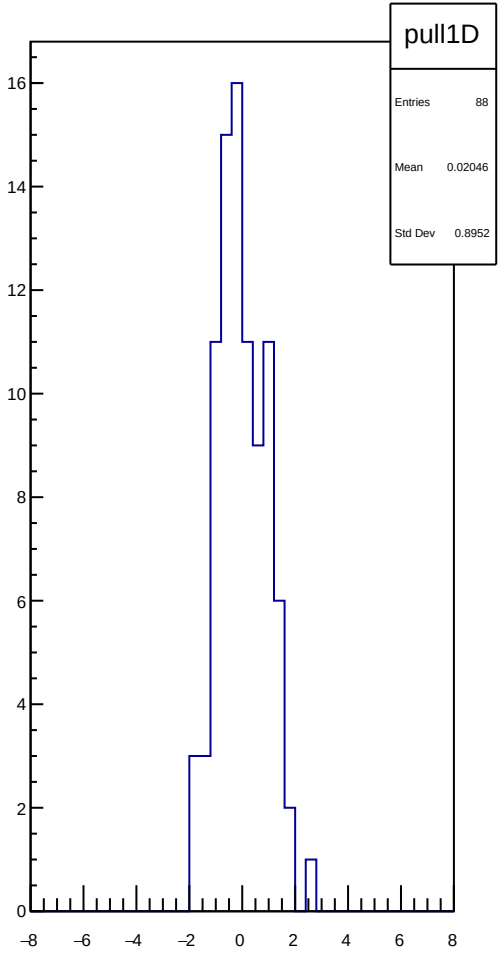

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.503e+05 / 87
p0 0.01179 ± 1.116e−05
0.025
0.02
0.015
0.01
0.005

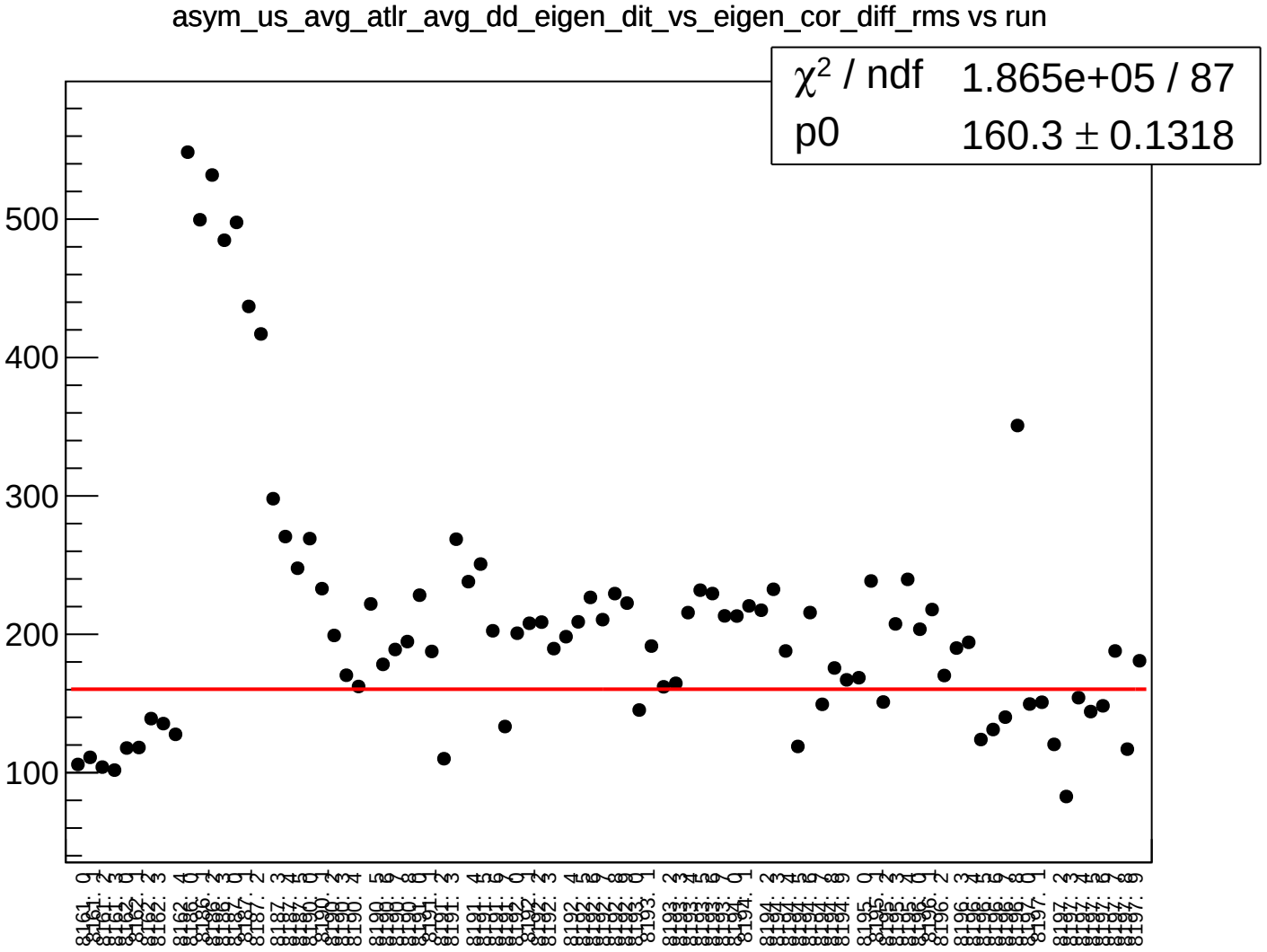

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.56 / 87
p0 0.2817 ± 0.1863
pull
Entries 88
Mean −128.4
Std Dev 0

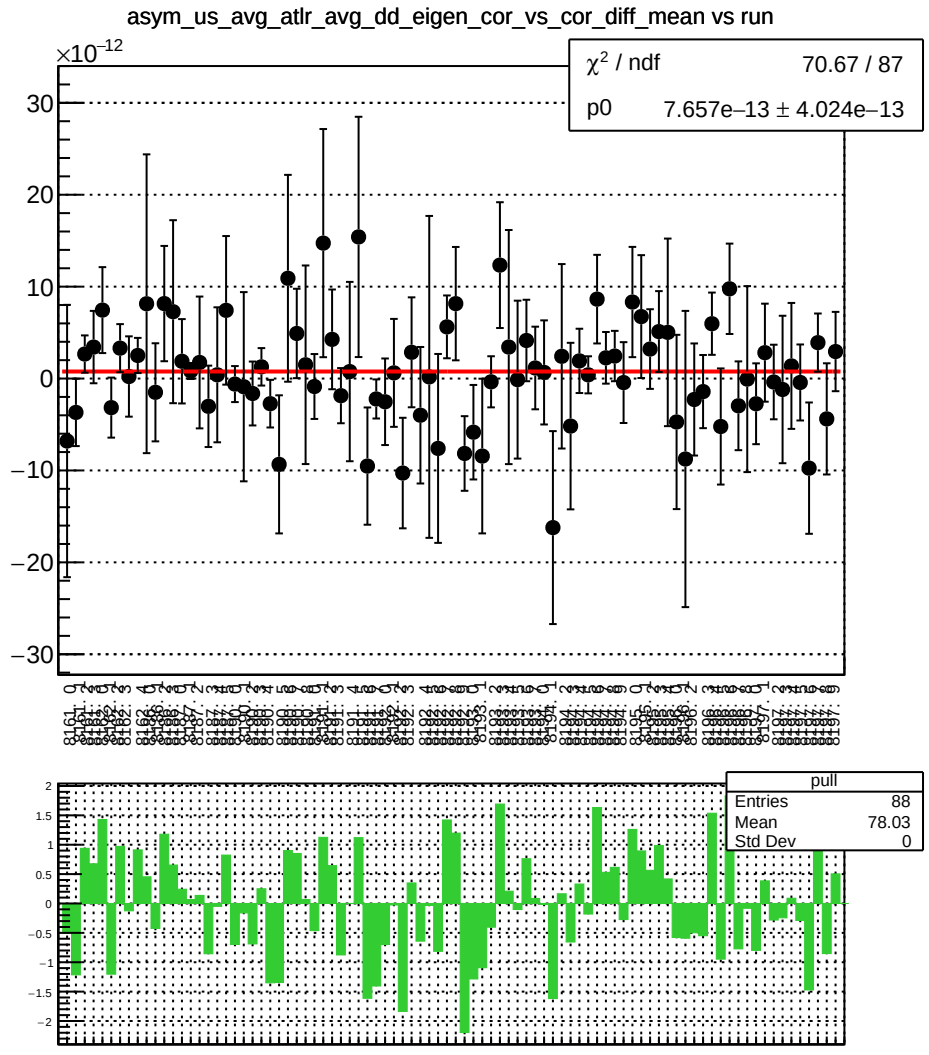

pull1D
Entries 88
Mean 0.02046
Std Dev 0.8952

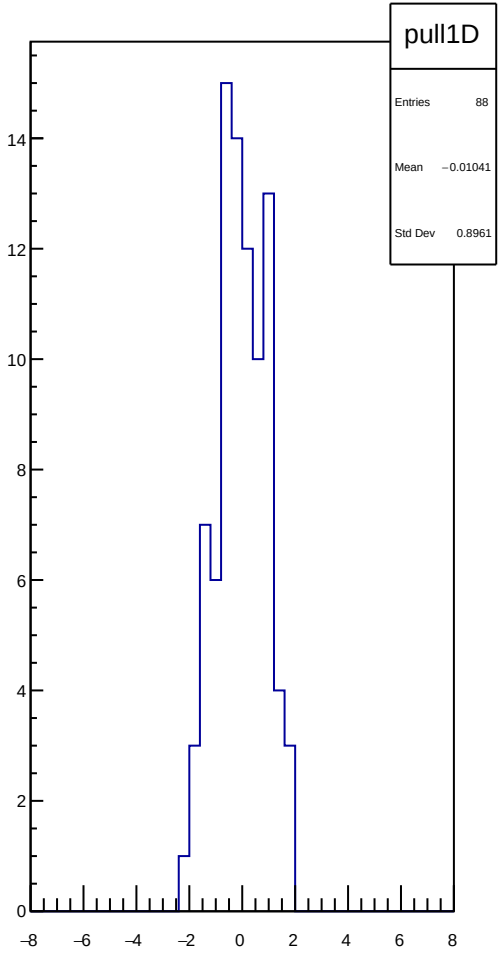

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.865e+05 / 87
p0 160.3 ± 0.1318
500
400
300
200
100

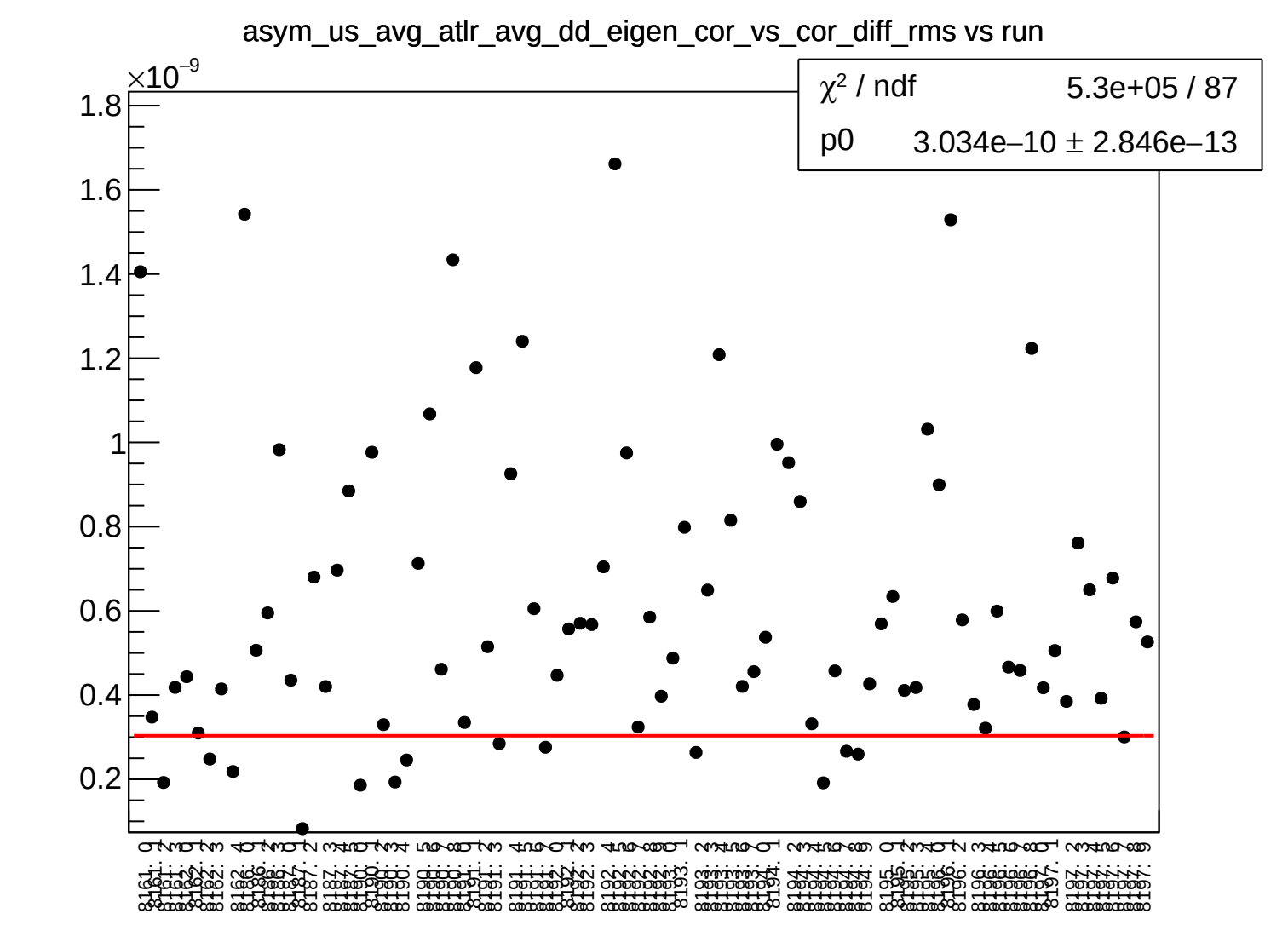

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.56 / 87
p0 0.2817 ± 0.1863
pull
Entries 88
Mean −128.4
Std Dev 0

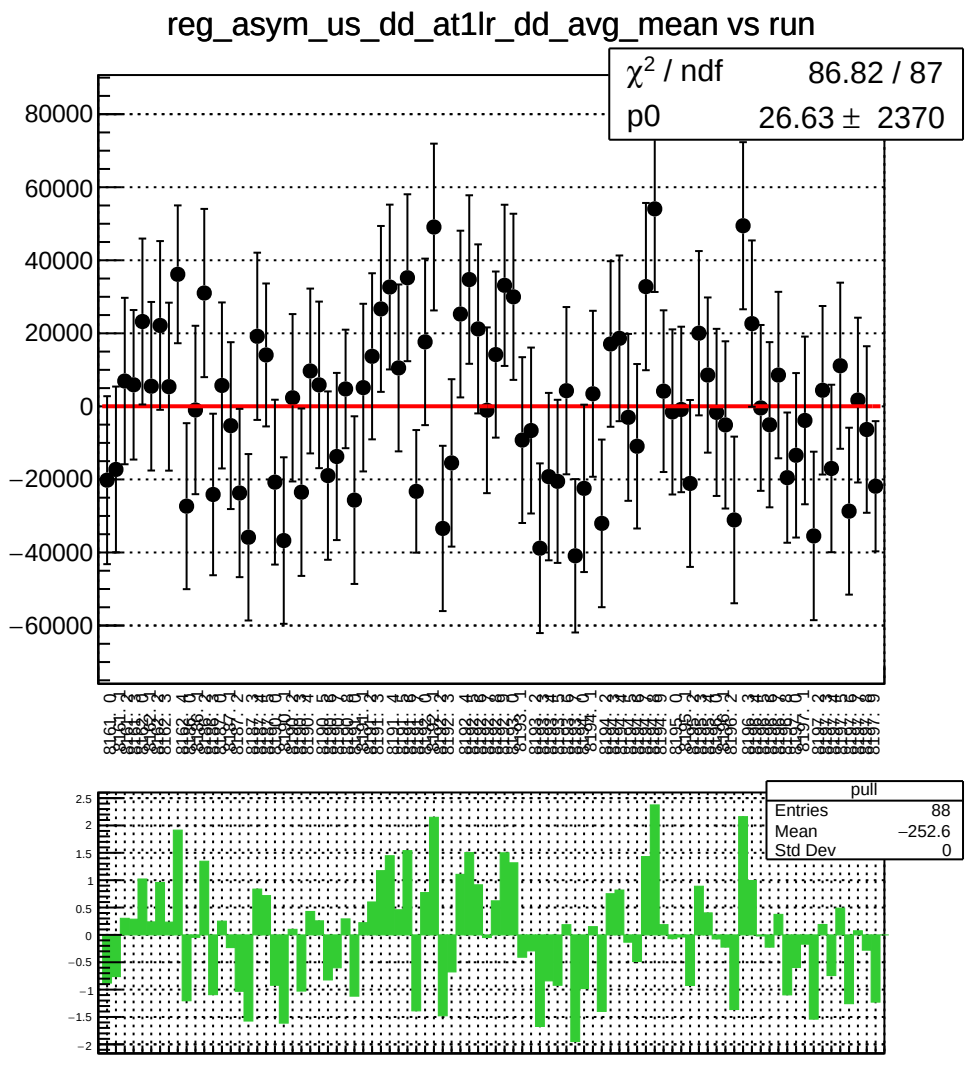

pull1D
Entries 88
Mean 0.02046
Std Dev 0.8952

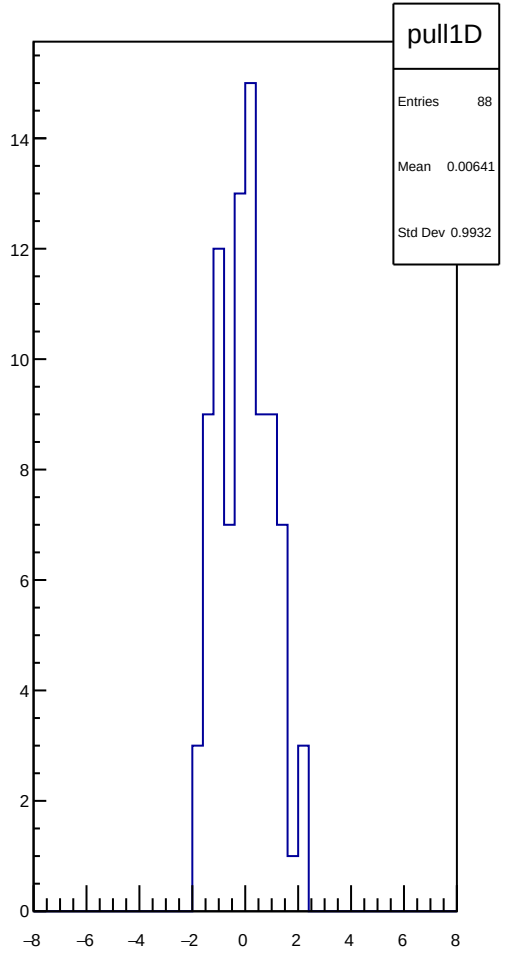

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.865e+05 / 87
p0 160.3 ± 0.1318
500
400
300
200
100

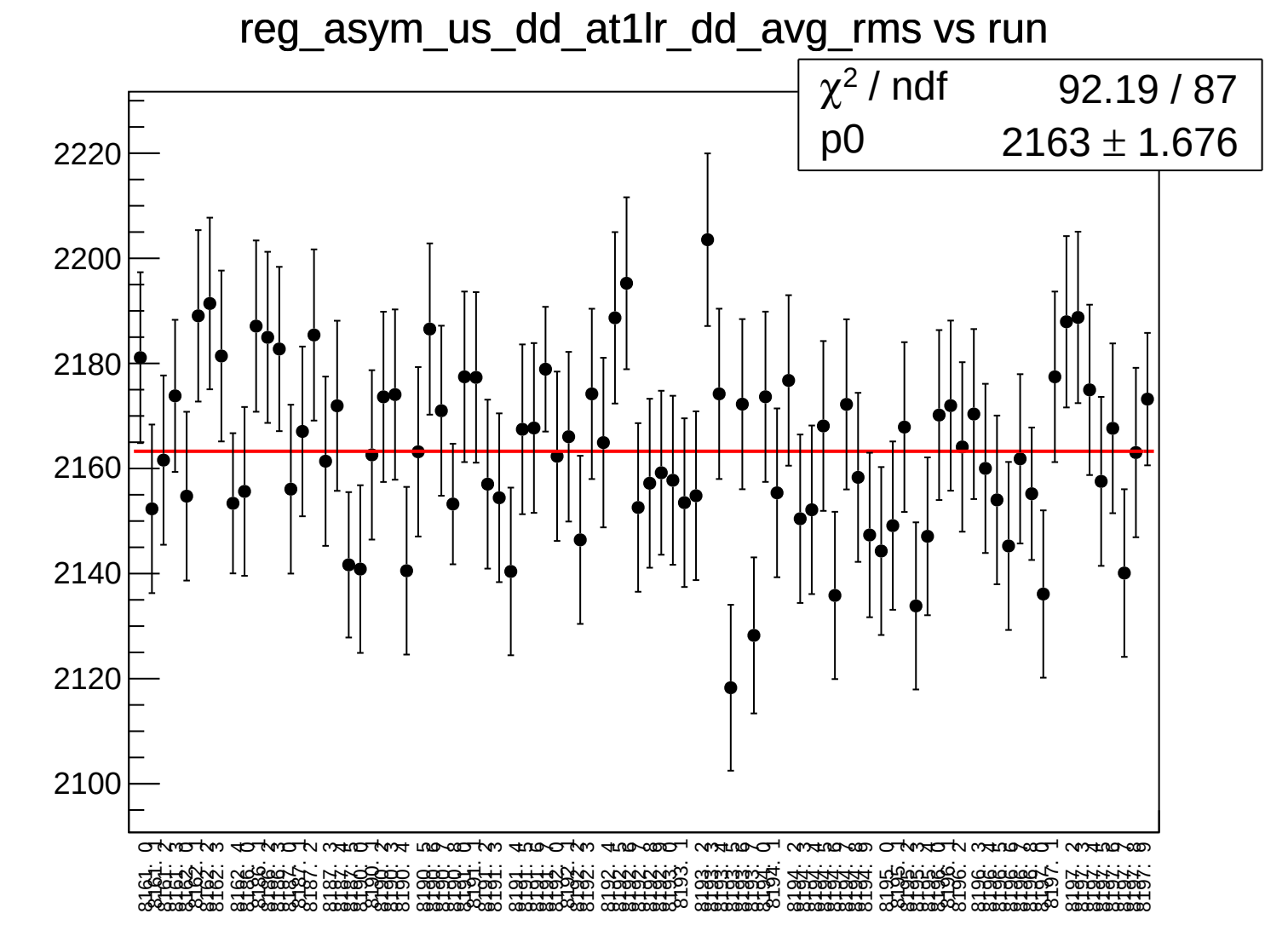

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.67 / 87
p0 7.657e−13 ± 4.024e−13
pull
Entries 88
Mean 78.03
Std Dev 0

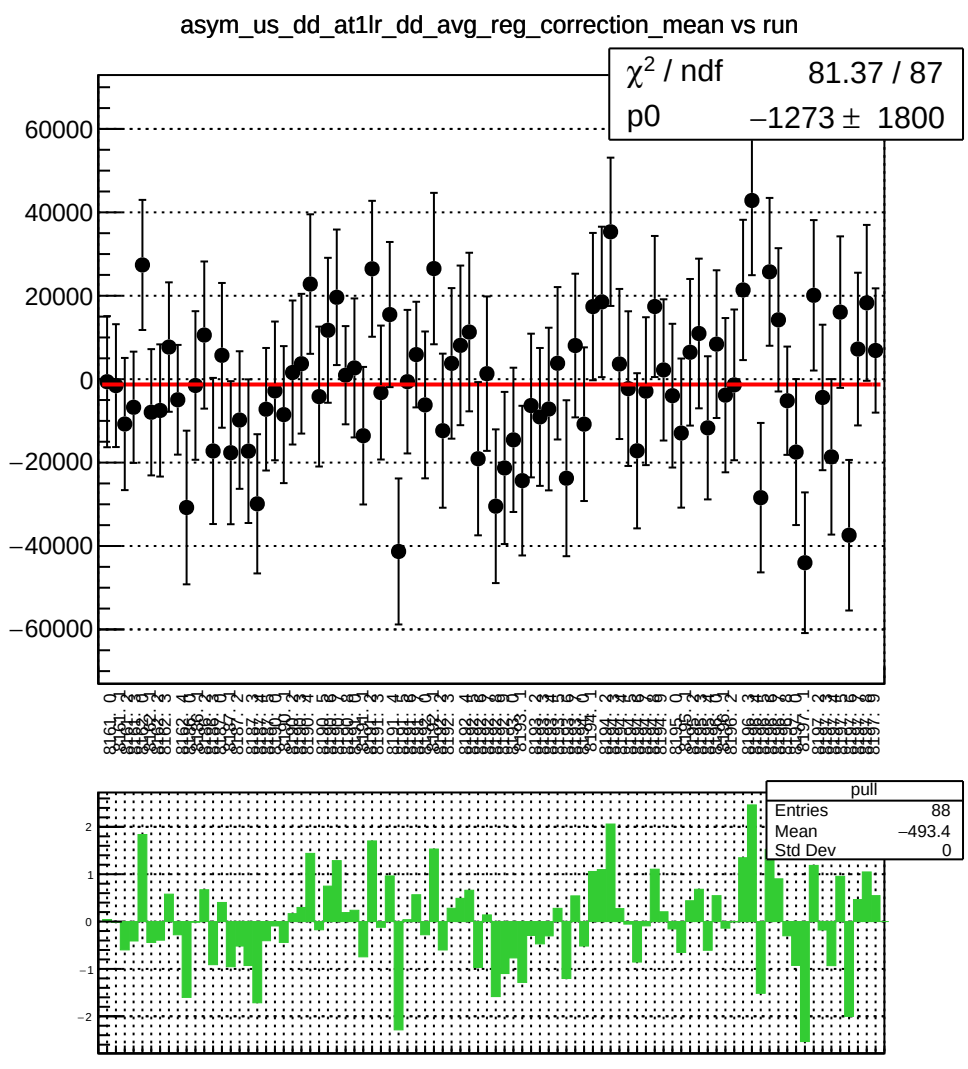

pull1D
Entries 88
Mean −0.01041
Std Dev 0.8961

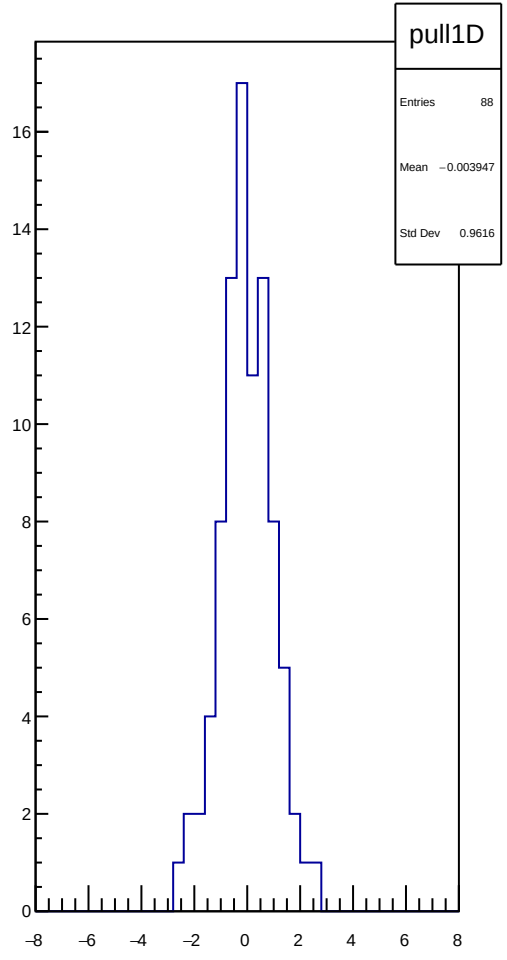

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.3e+05 / 87
p0 3.034e−10 ± 2.846e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

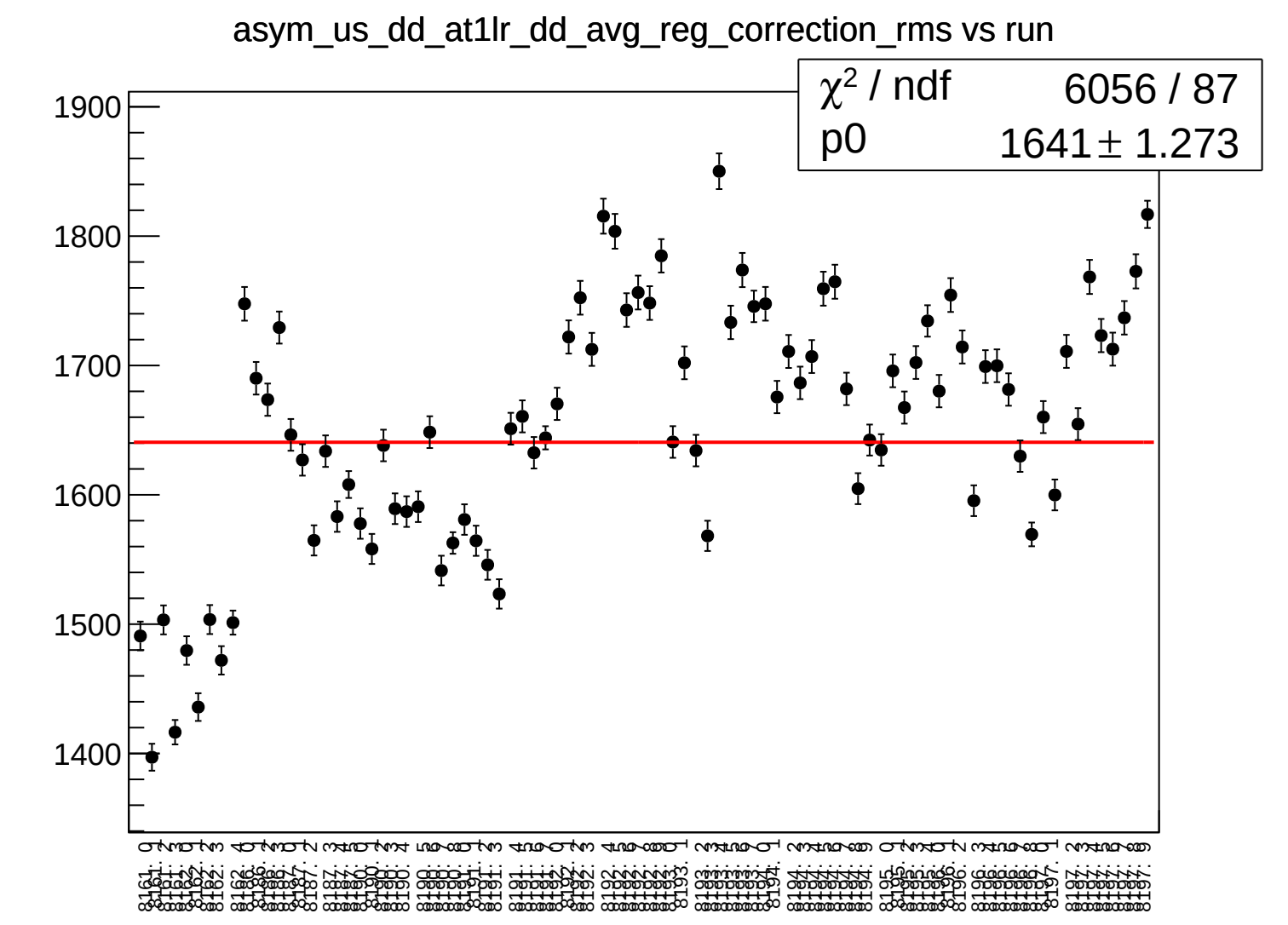

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 86.82 / 87
p0 26.63 ± 2370
pull
Entries 88
Mean −252.6
Std Dev 0

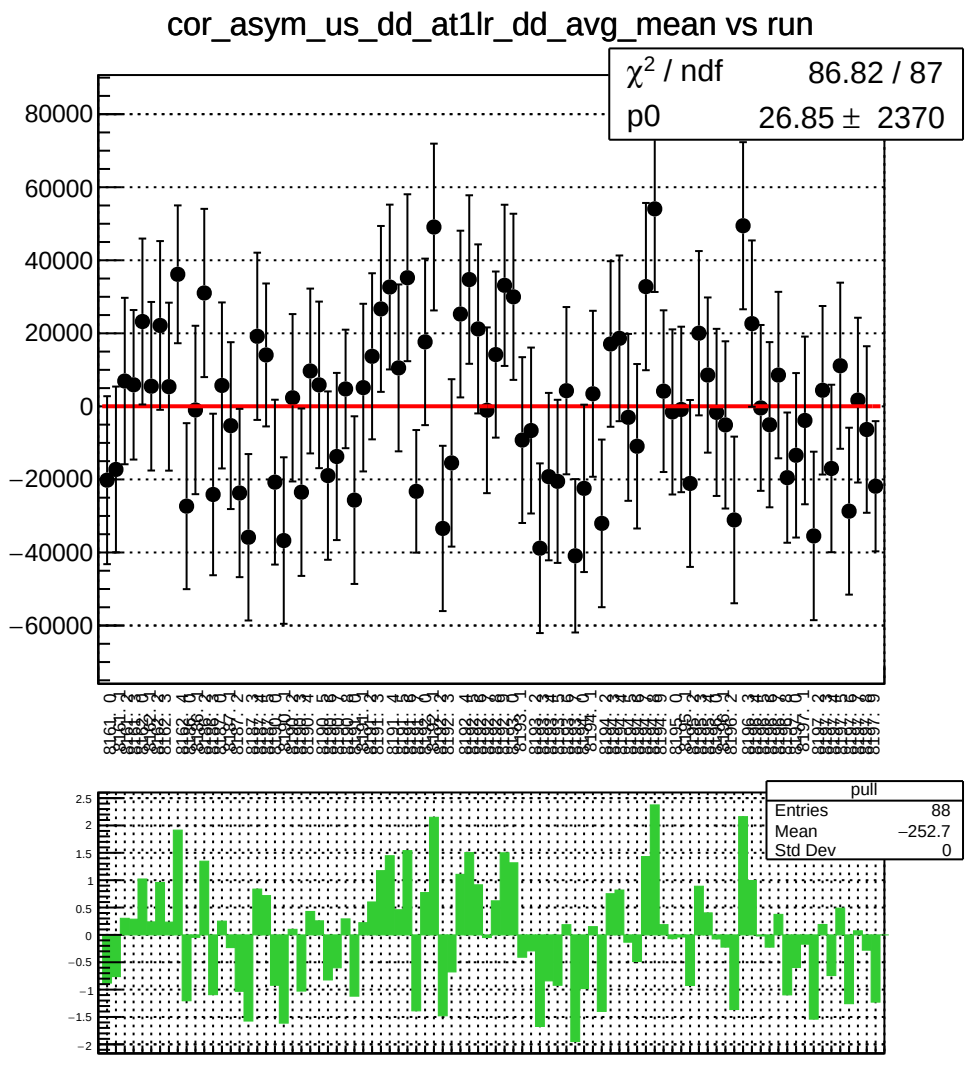

pull1D
Entries 88
Mean 0.00641
Std Dev 0.9932

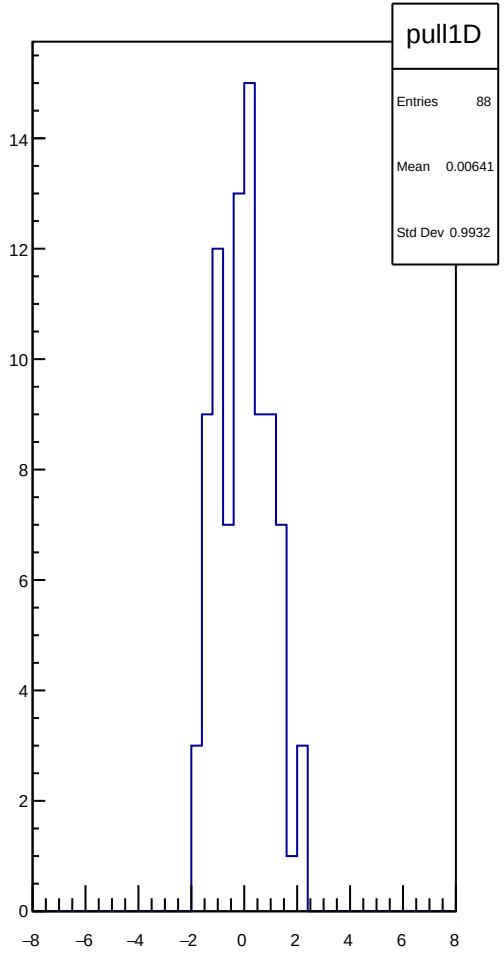

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 92.19 / 87
p0 2163 ± 1.676
2220
2200
2180
2160
2140
2120
2100

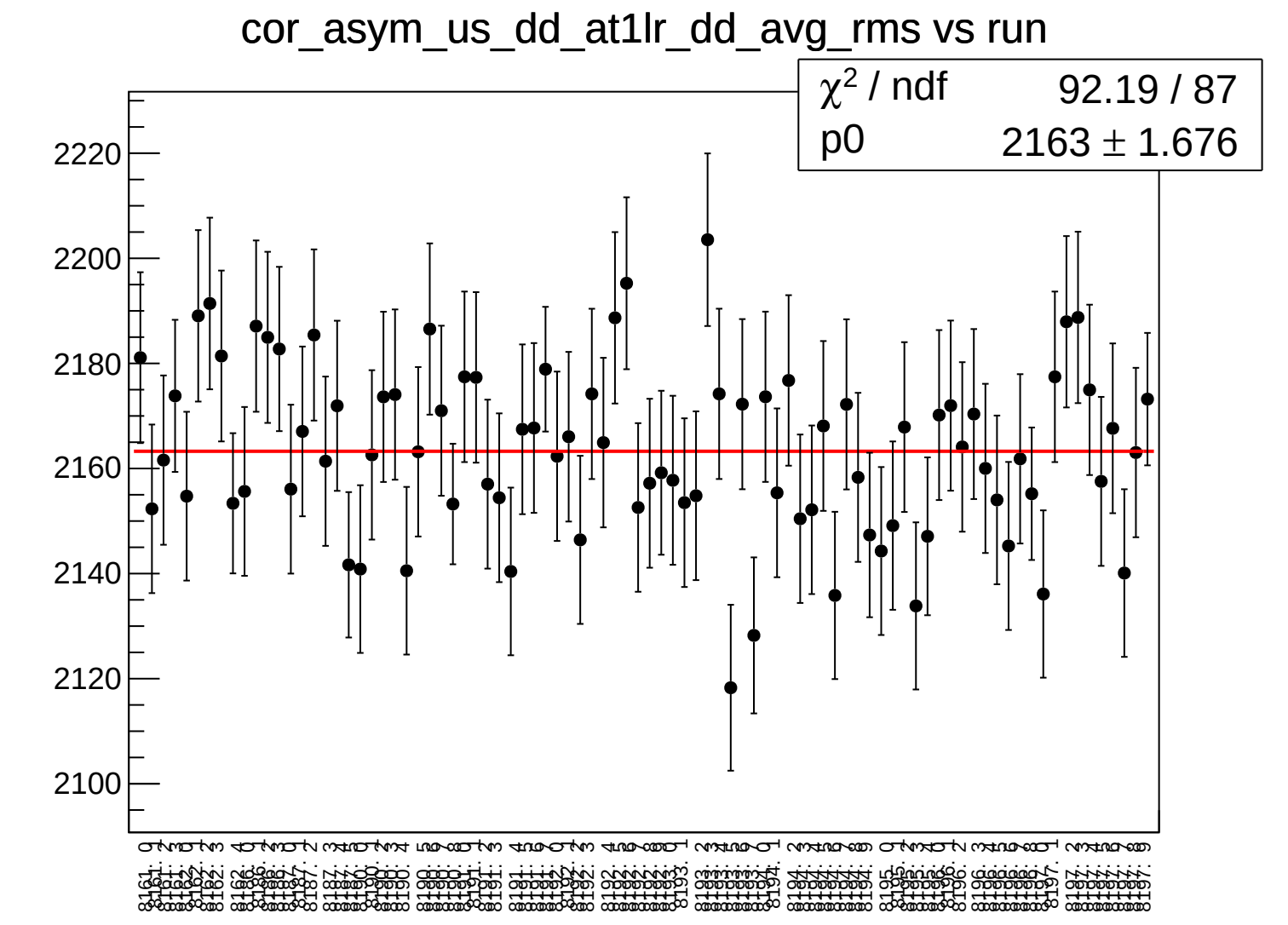

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 81.37 / 87
p0 −1273 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −493.4
Std Dev 0
2
1
0
−1
−2

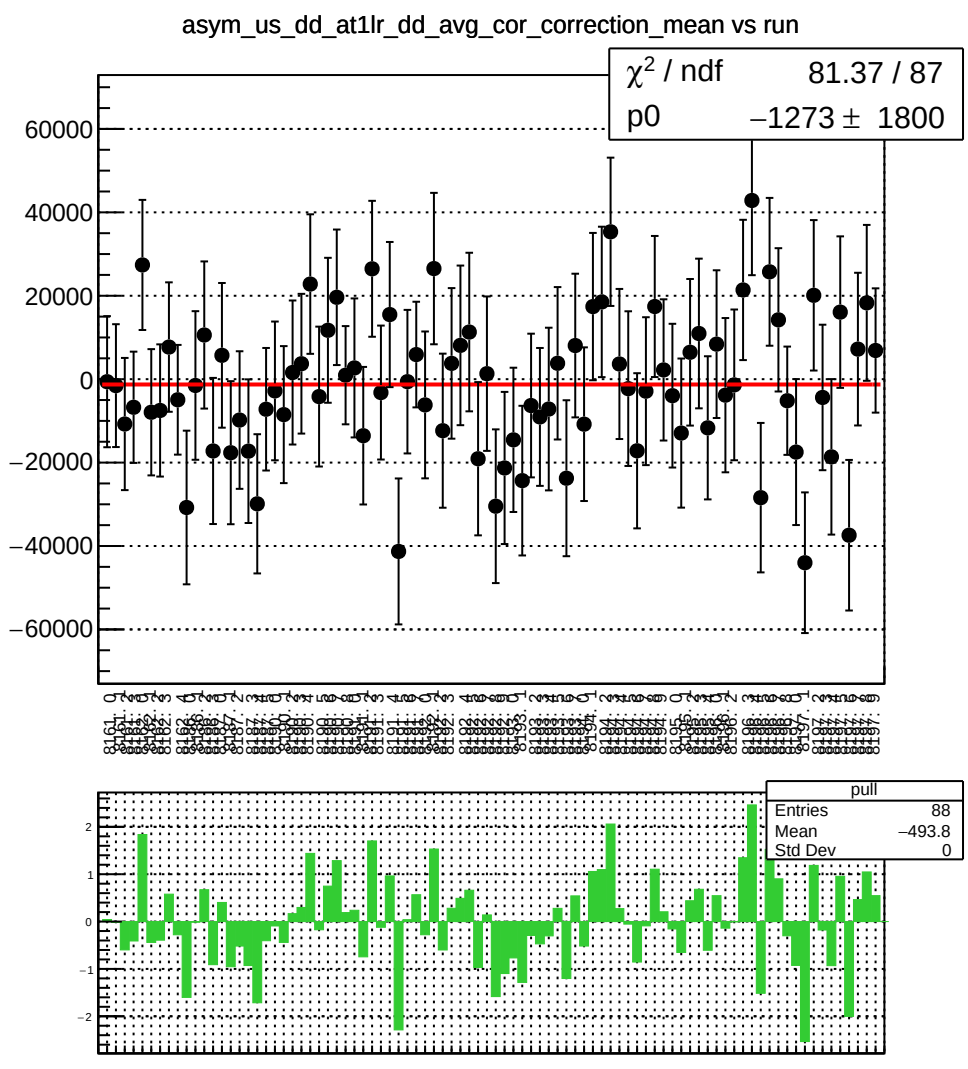

pull1D
Entries 88
Mean −0.003947
Std Dev 0.9616
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

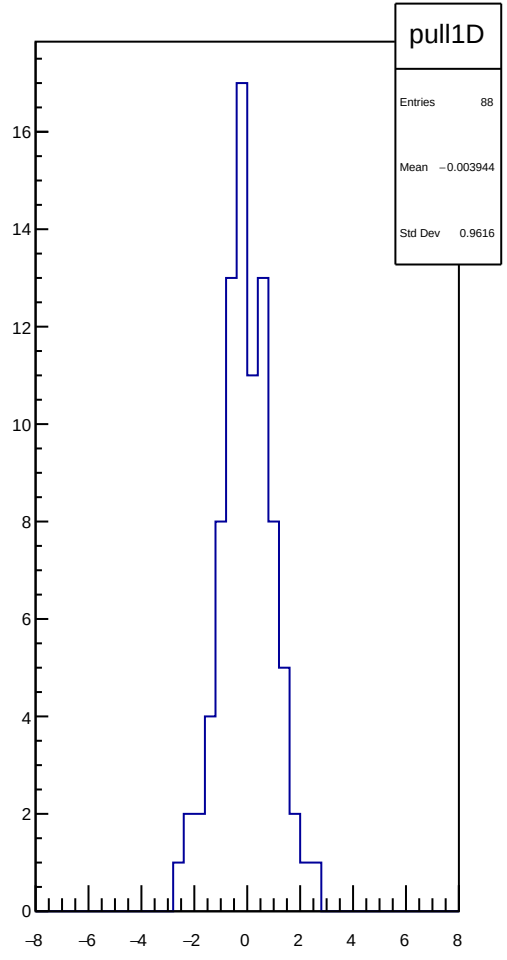

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 6056 / 87
p0 1641 ± 1.273
1900
1800
1700
1600
1500
1400

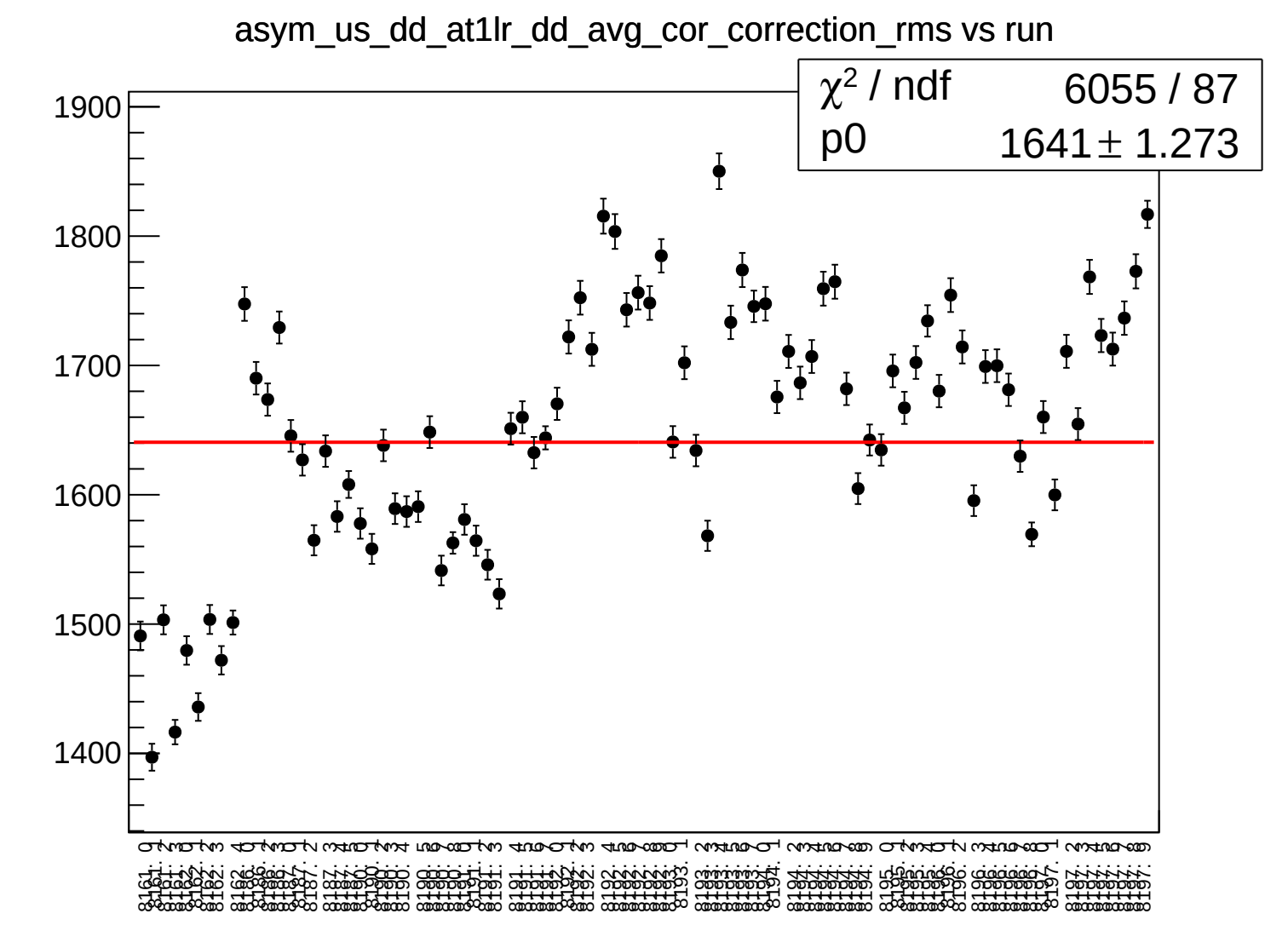

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 86.82 / 87
p0 26.85 ± 2370
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −252.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

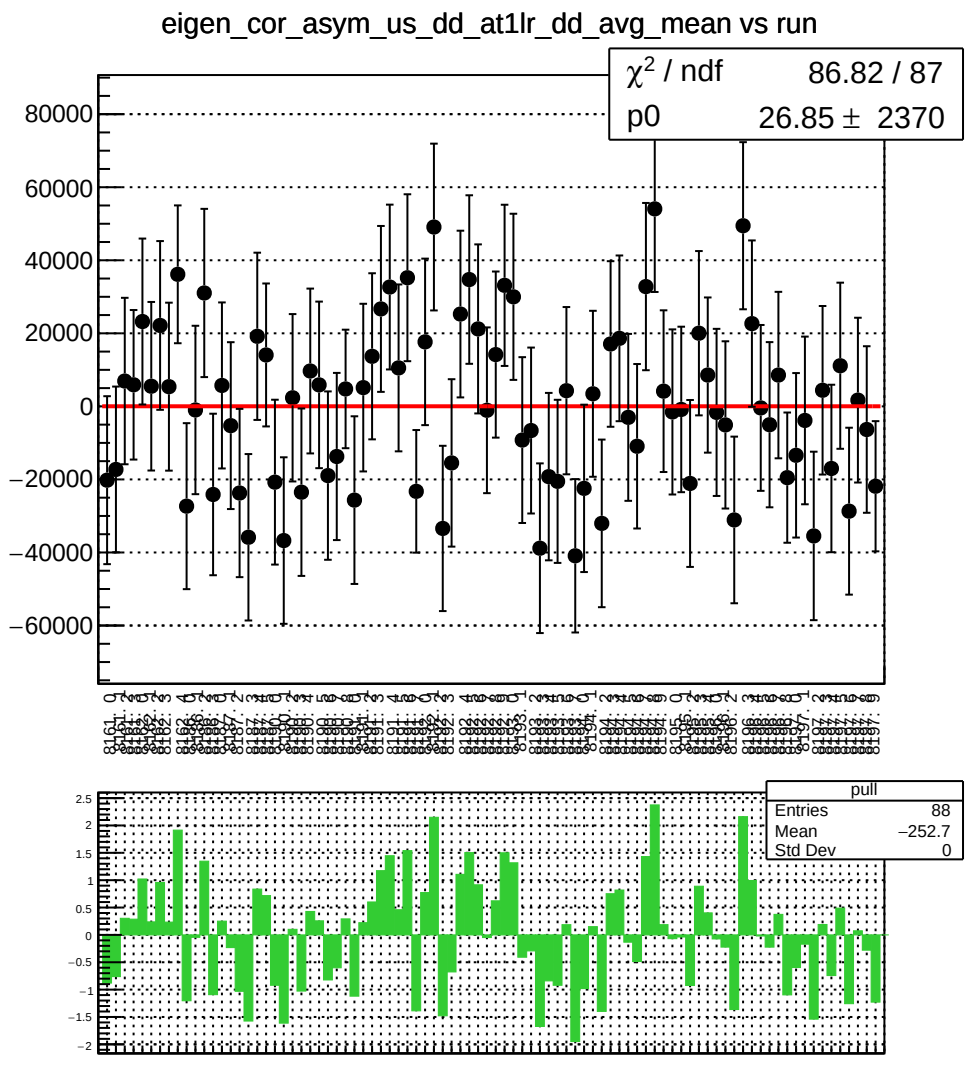

pull1D
Entries 88
Mean 0.00641
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

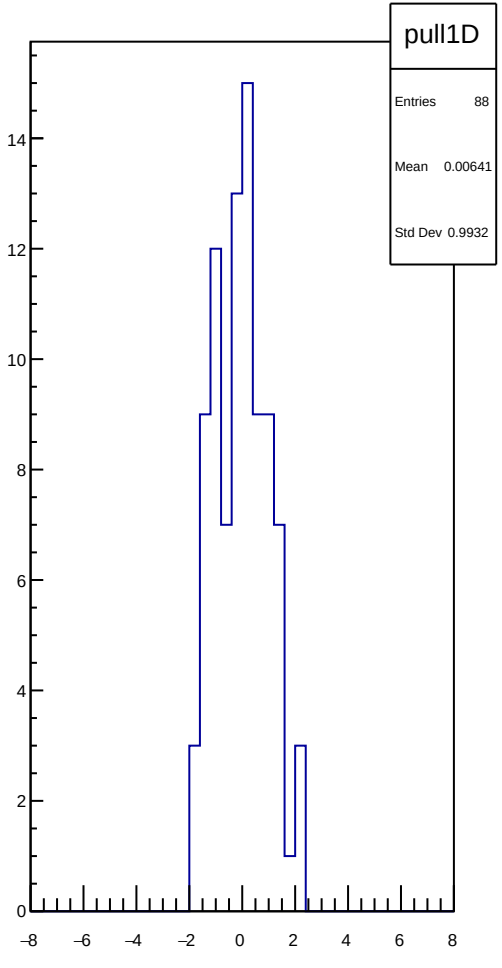

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 92.19 / 87
p0 2163 ± 1.676
2220
2200
2180
2160
2140
2120
2100

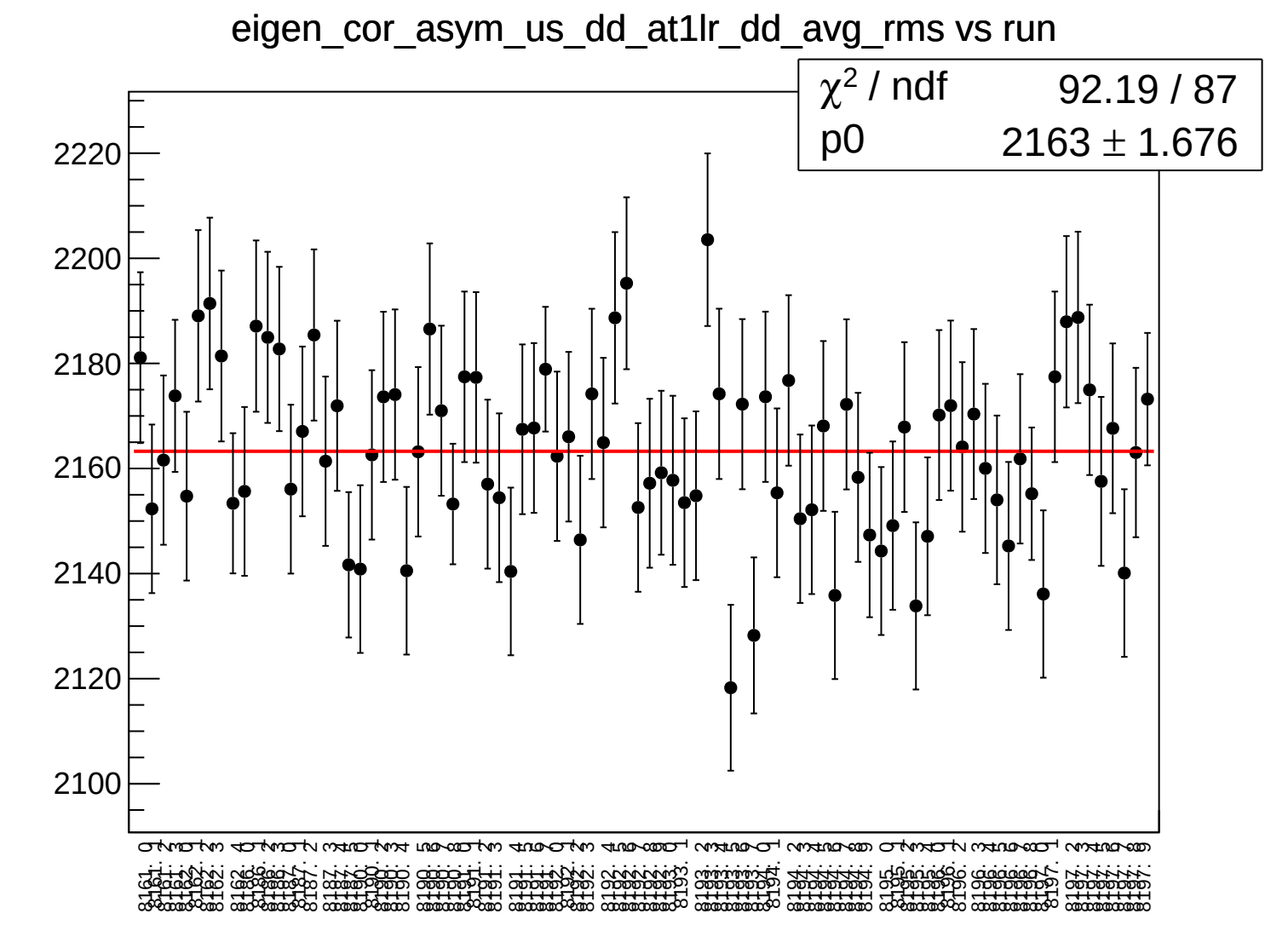

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 81.37 / 87
p0 −1273 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −493.8
Std Dev 0
2
1
0
−1
−2

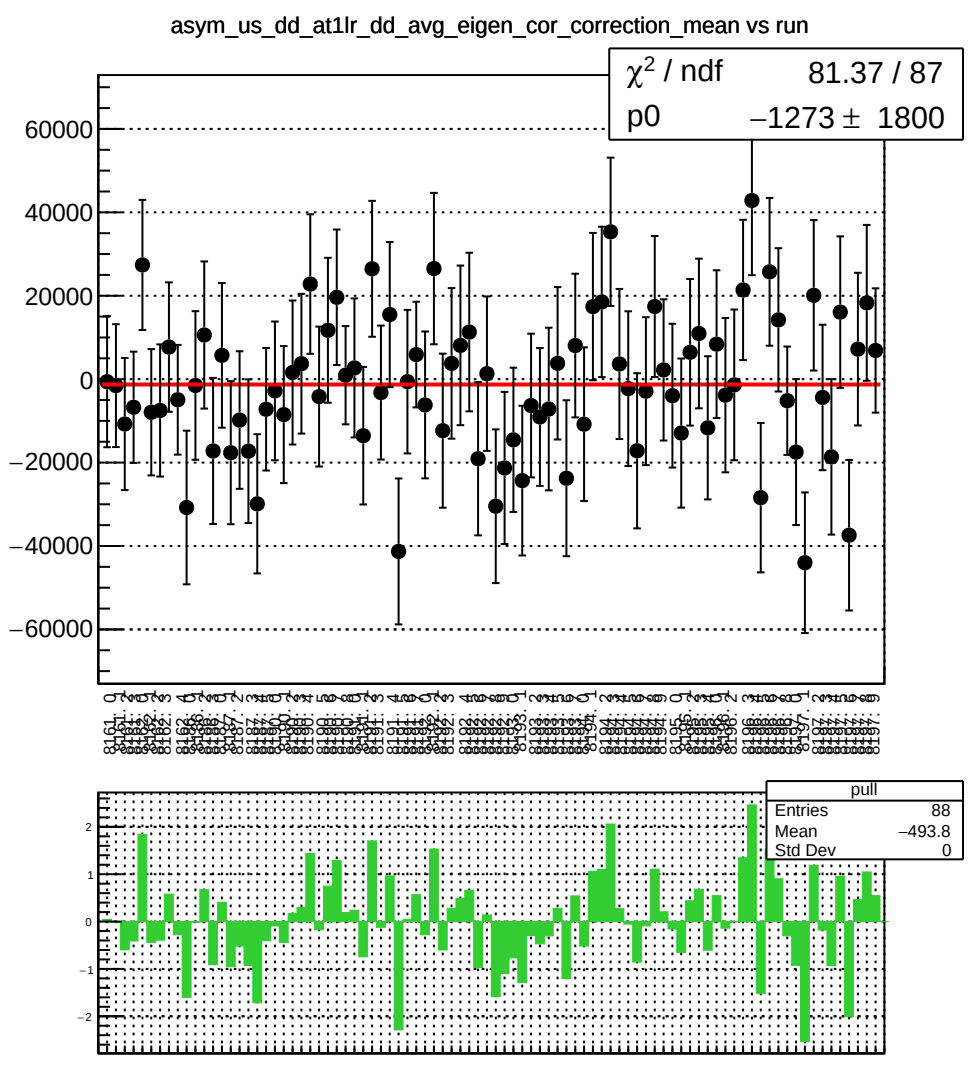

pull1D
Entries 88
Mean −0.003944
Std Dev 0.9616
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

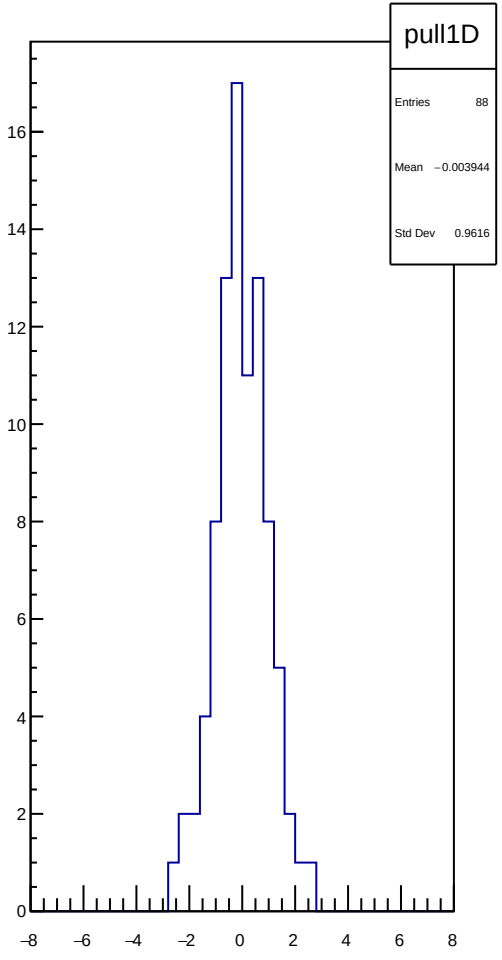

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6055 / 87
p0 1641 ± 1.273
1900
1800
1700
1600
1500
1400

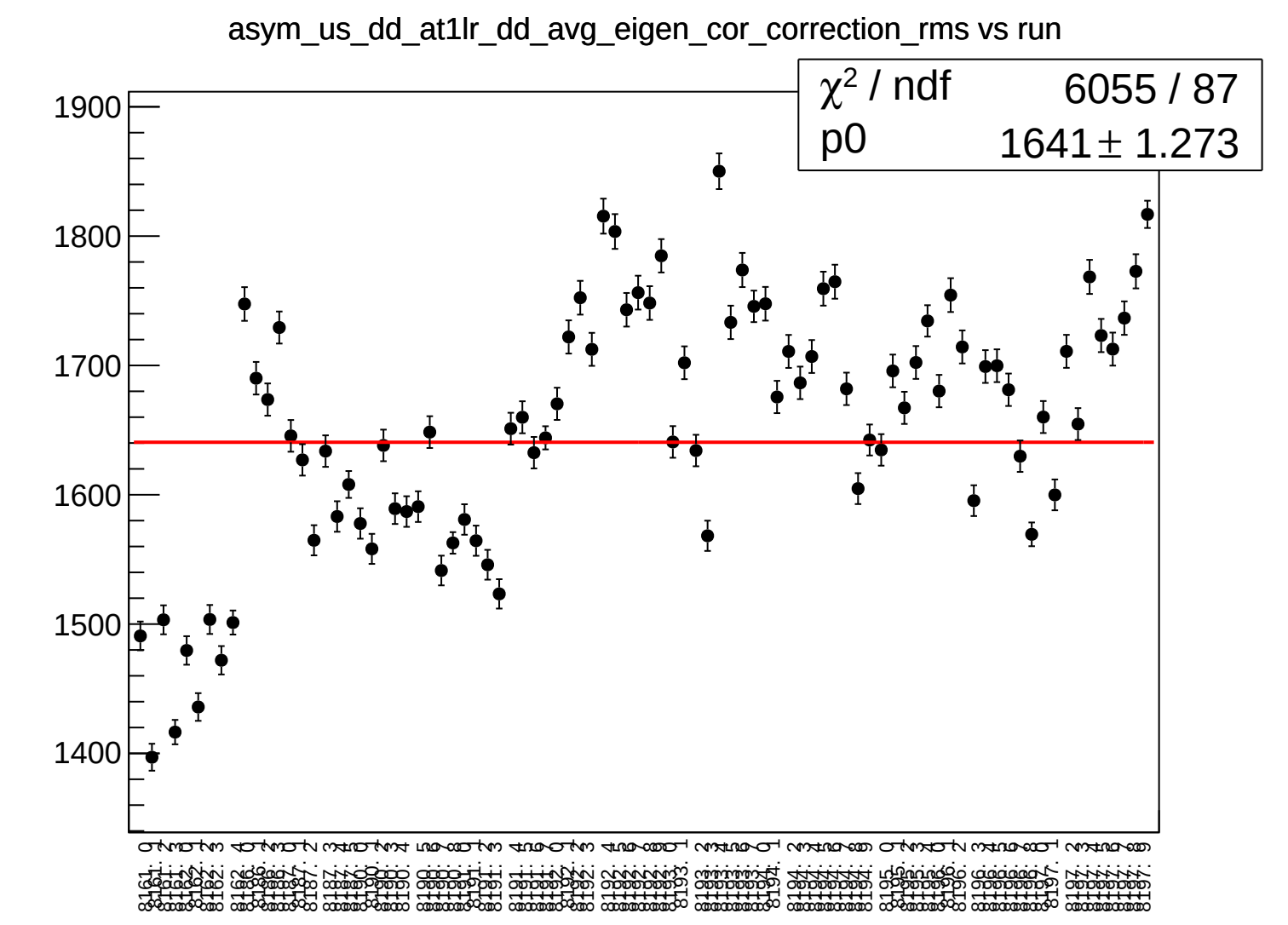

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 86.82 / 87
p0 26.85 ± 2370
pull
Entries 88
Mean −252.7
Std Dev 0

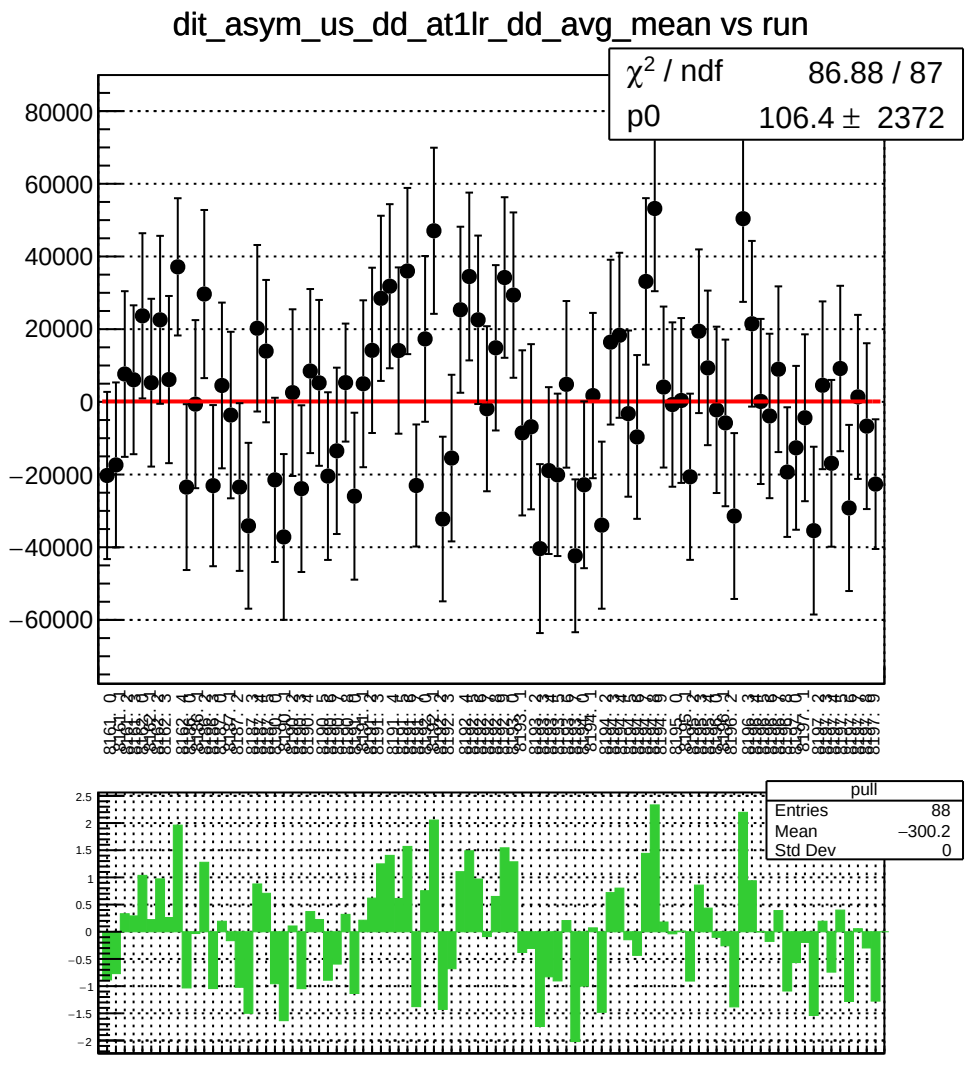

pull1D
Entries 88
Mean 0.00641
Std Dev 0.9932

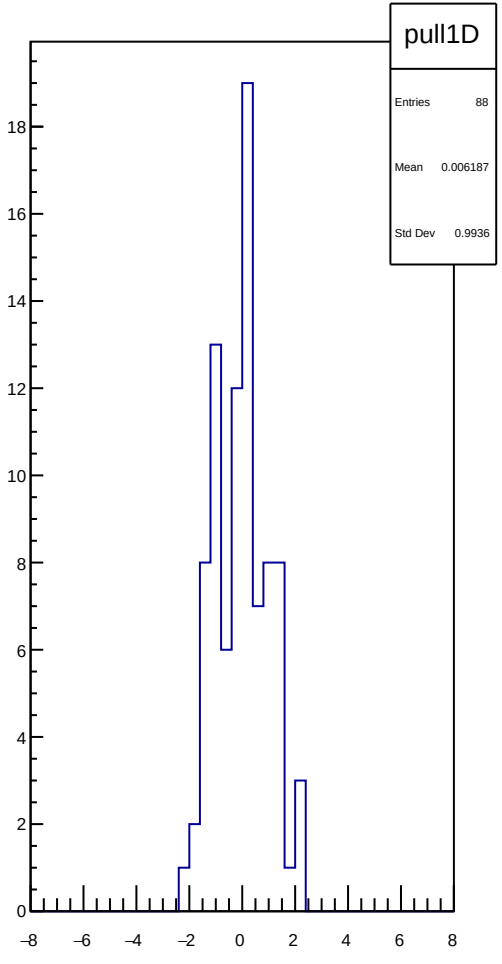

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 92.19 / 87
p0 2163 ± 1.676
2220
2200
2180
2160
2140
2120
2100

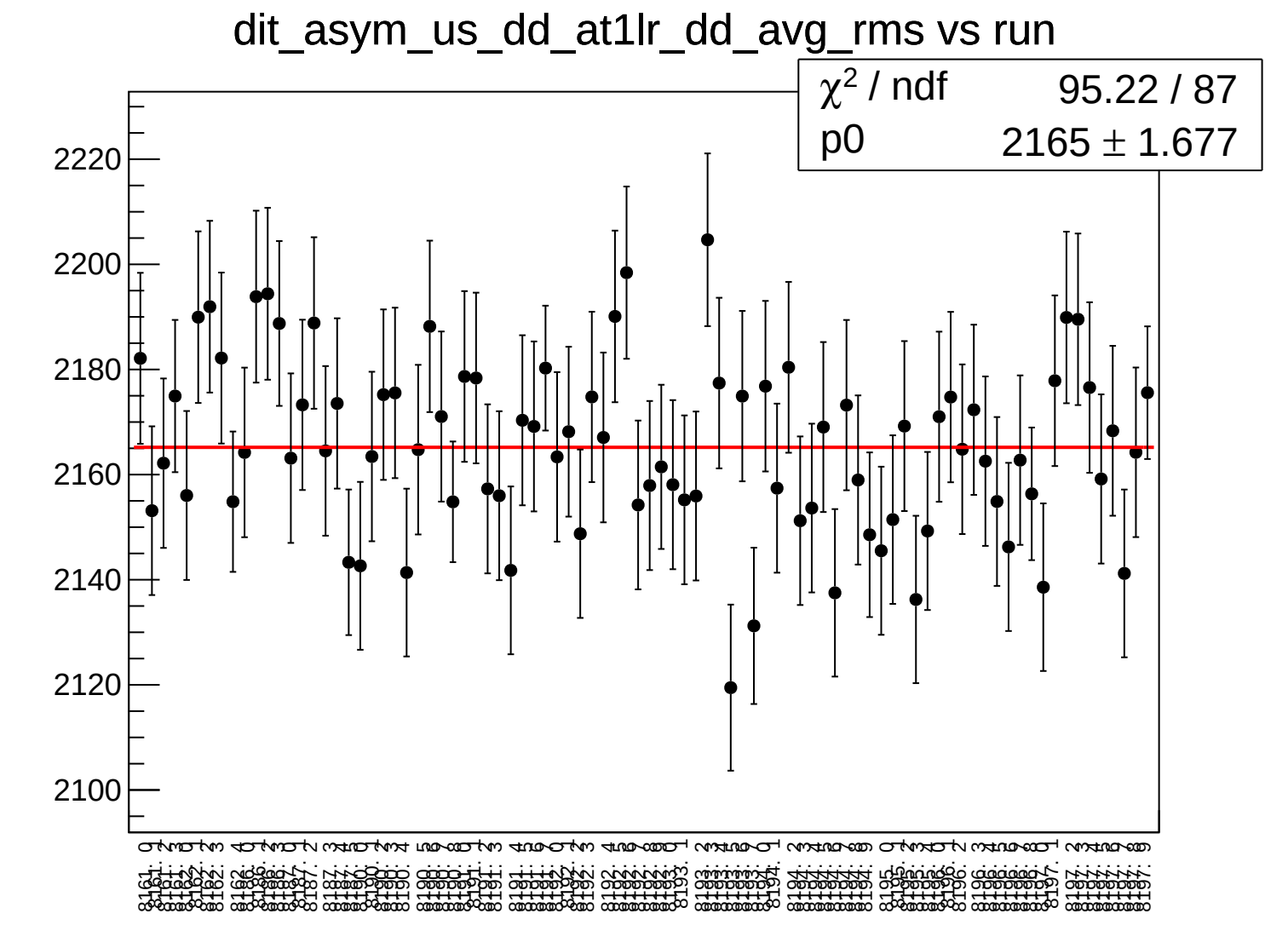

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.37 / 87
p0 −1273 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −493.8
Std Dev 0
2
1
0
−1
−2

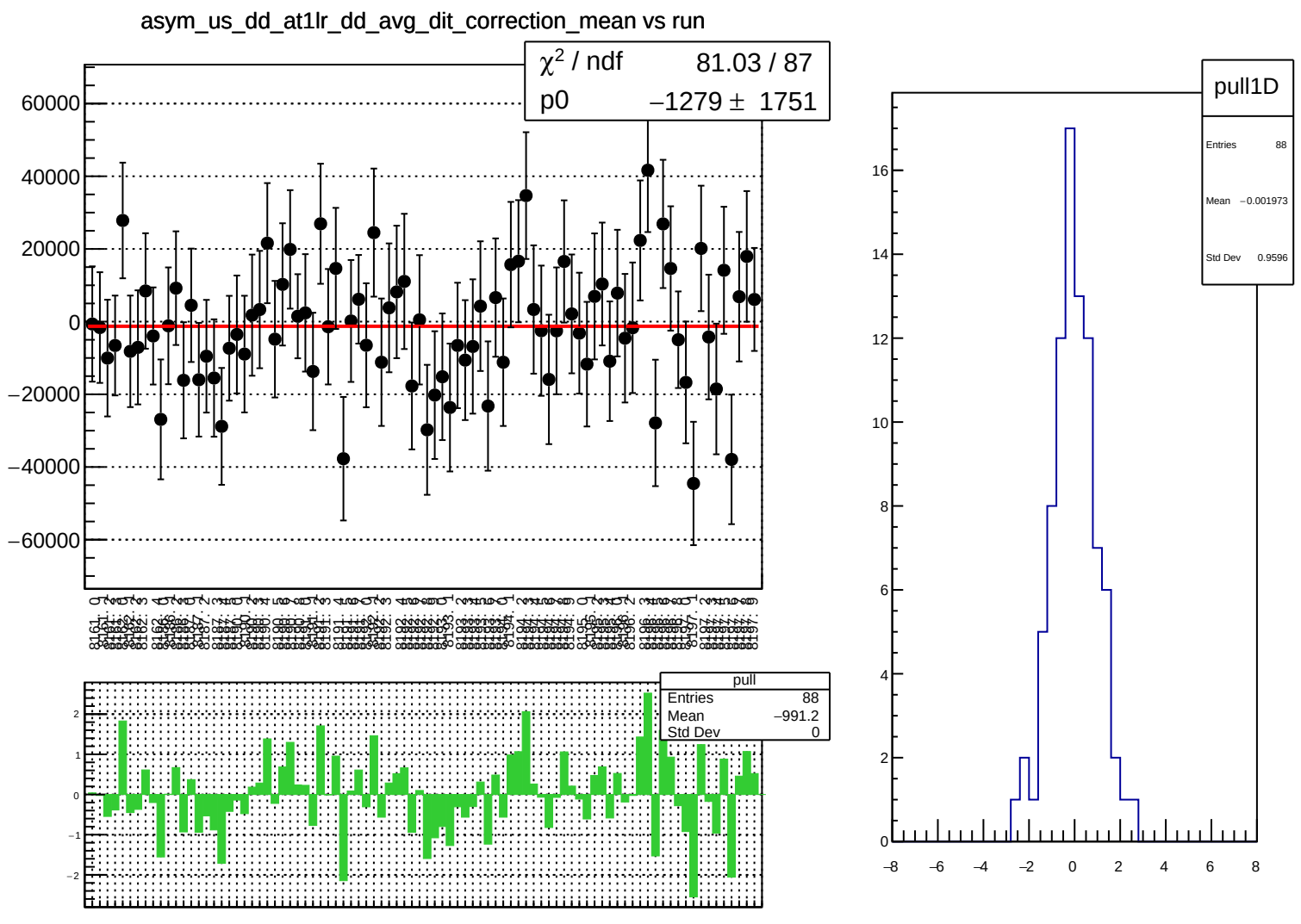

pull1D
Entries 88
Mean −0.003944
Std Dev 0.9616
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

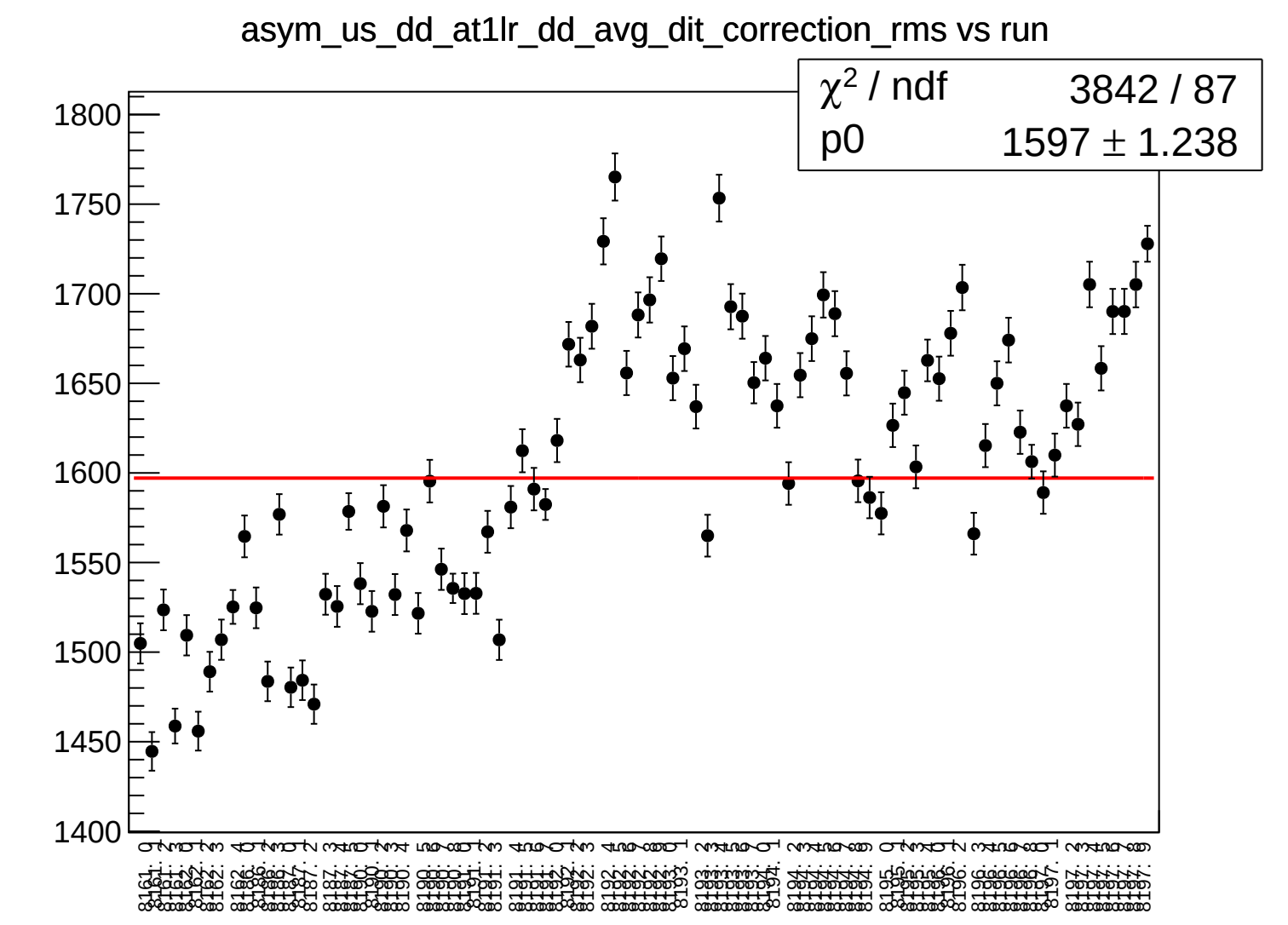

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6055 / 87
p0 1641 ± 1.273
1900
1800
1700
1600
1500
1400

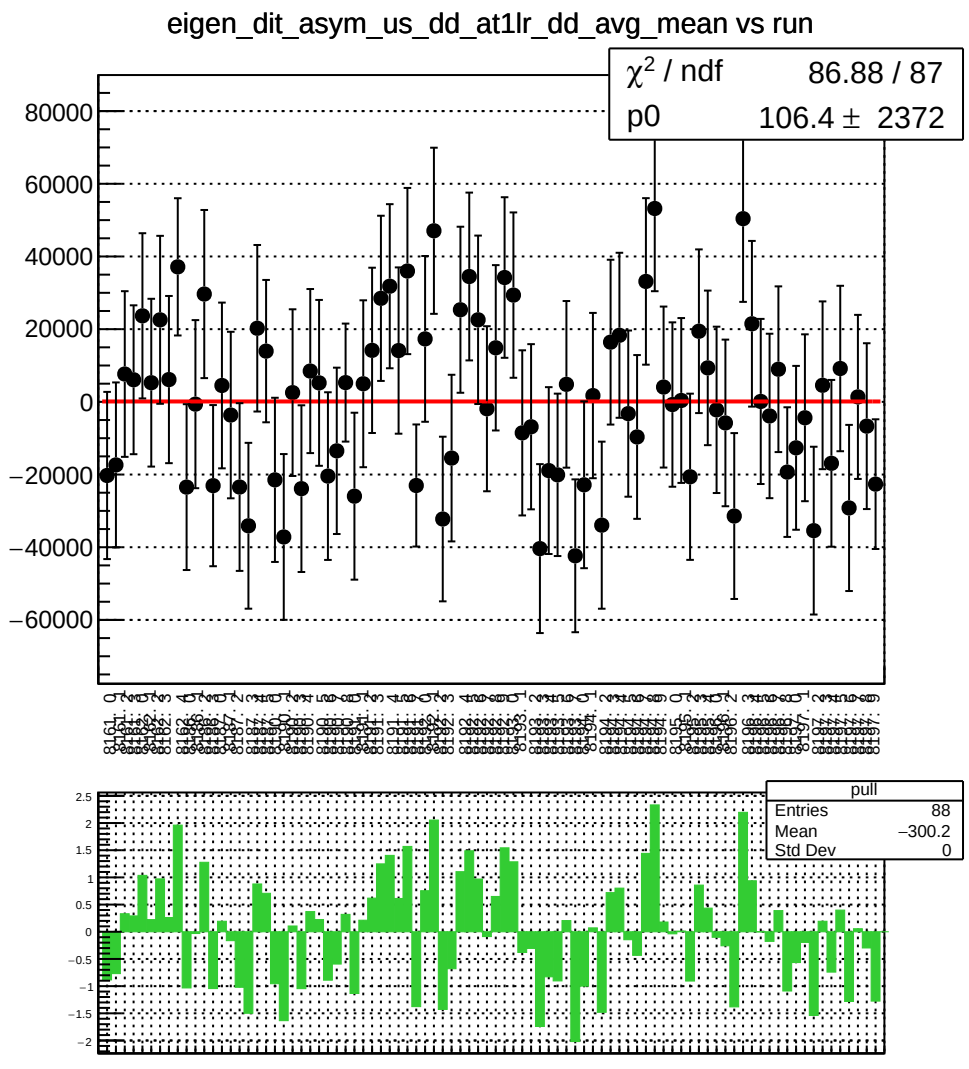

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 86.88 / 87
p0 106.4 ± 2372
pull
Entries 88
Mean −300.2
Std Dev 0

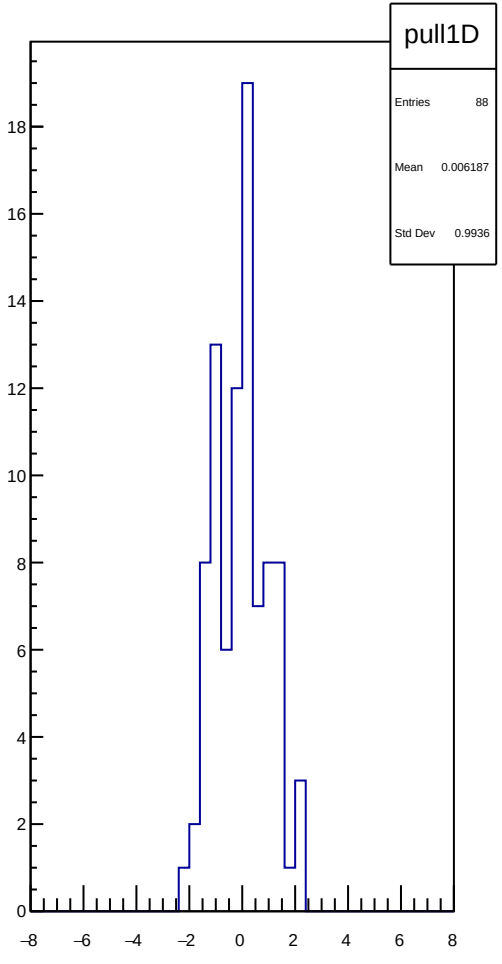

pull1D
Entries 88
Mean 0.006187
Std Dev 0.9936

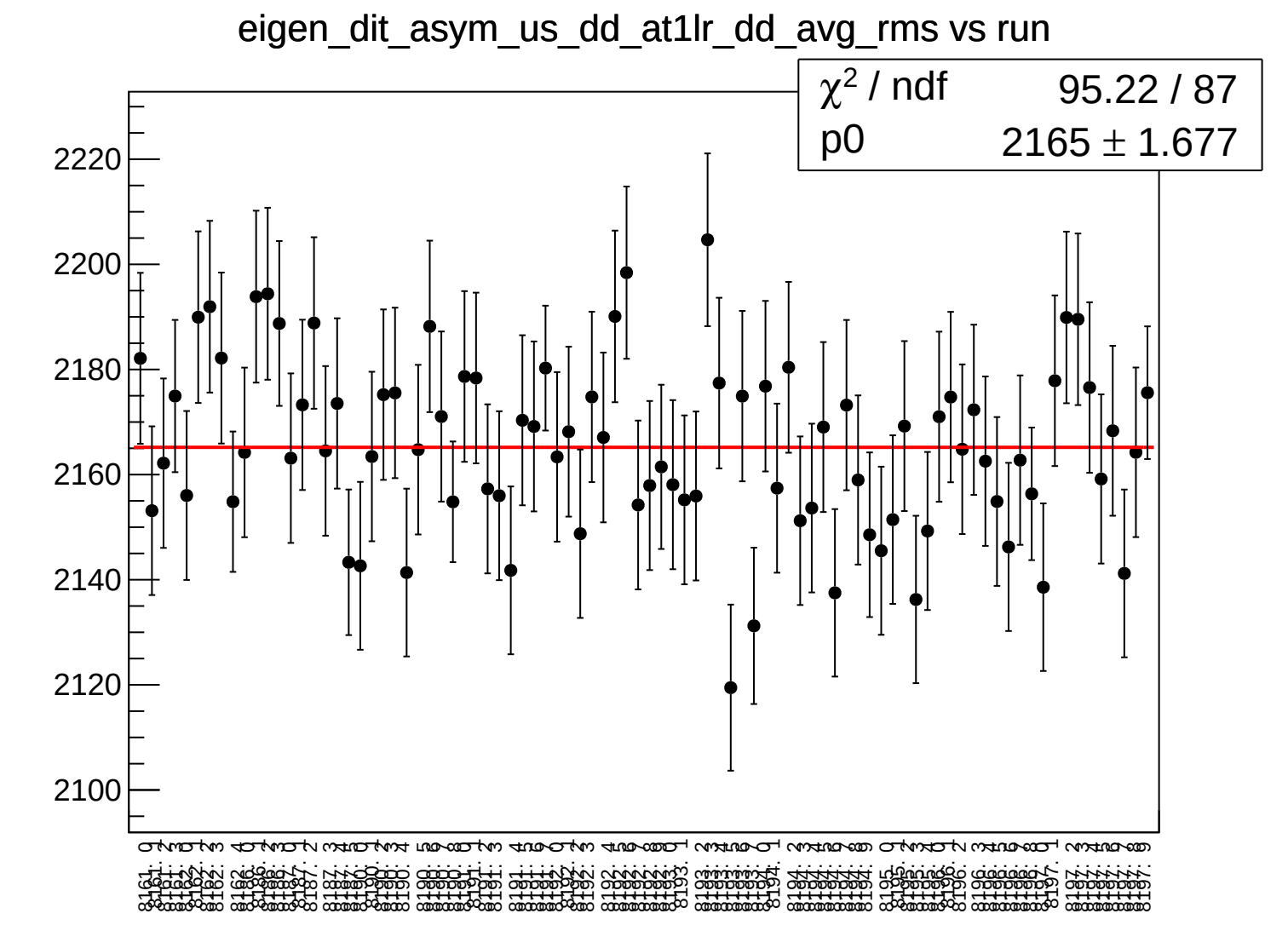

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 95.22 / 87
p0 2165 ± 1.677
2220
2200
2180
2160
2140
2120
2100

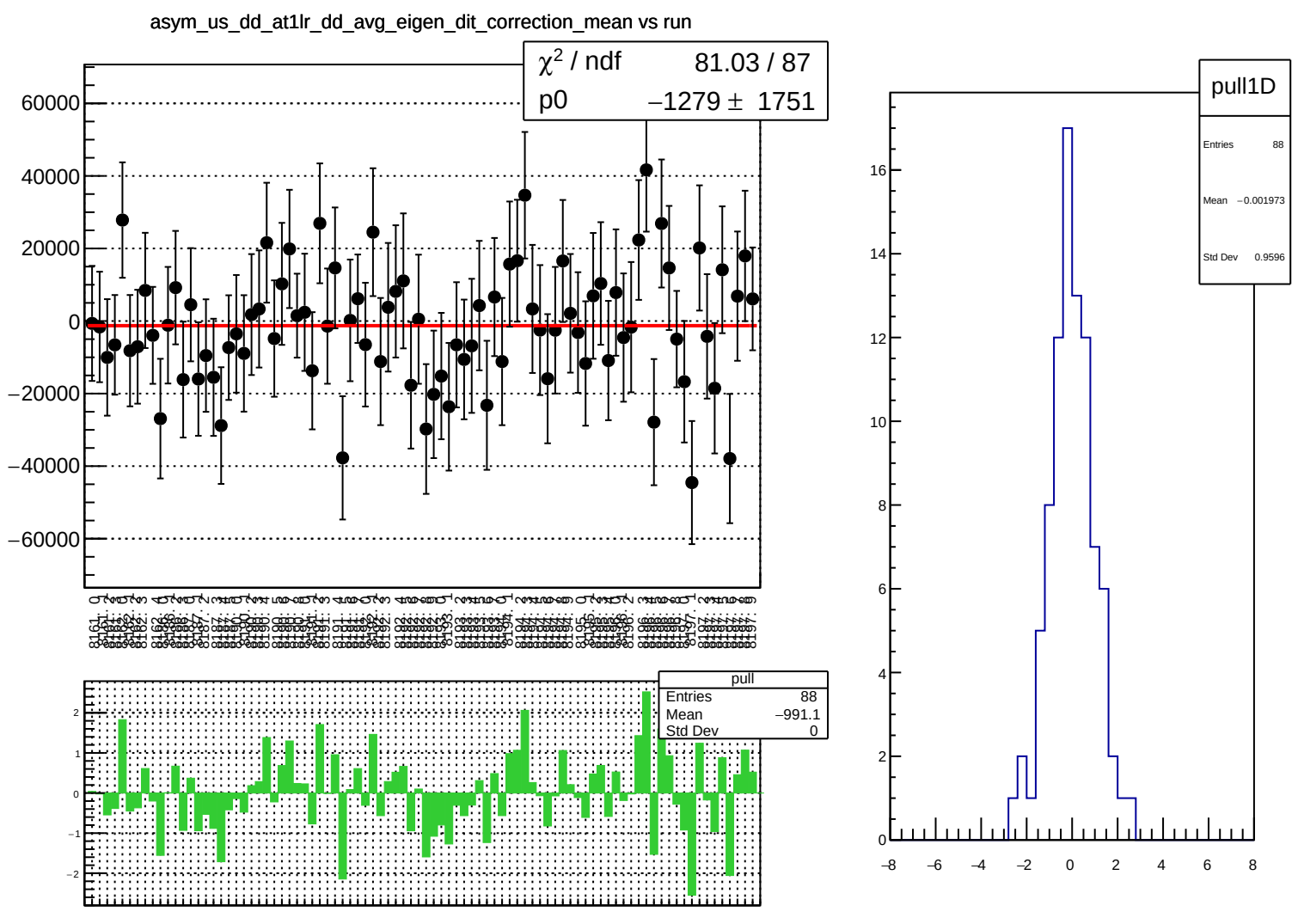

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 81.03 / 87
p0 −1279 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −991.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001973
Std Dev 0.9596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

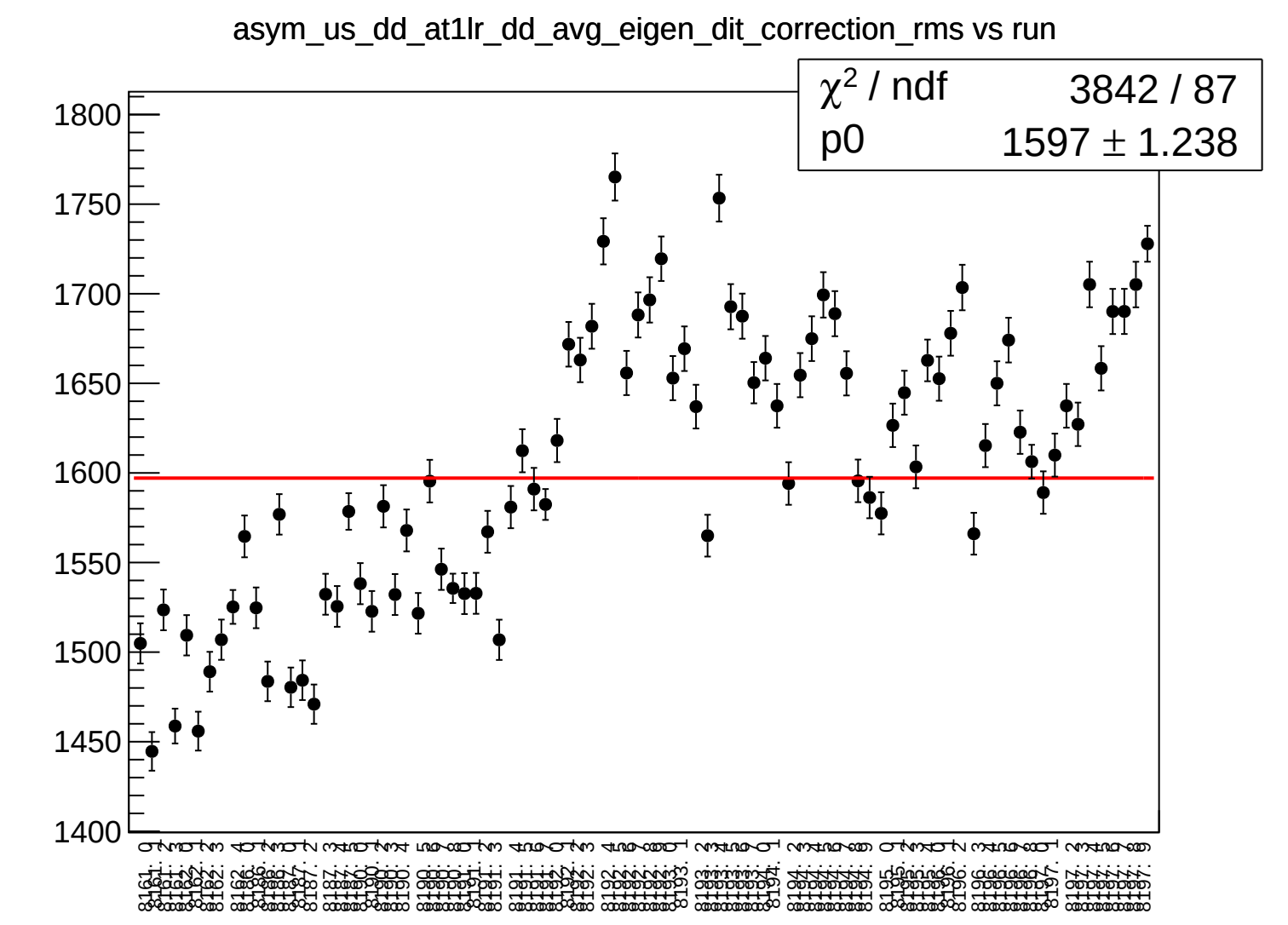

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3842 / 87
p0 1597 ± 1.238
1800
1750
1700
1650
1600
1550
1500
1450
1400

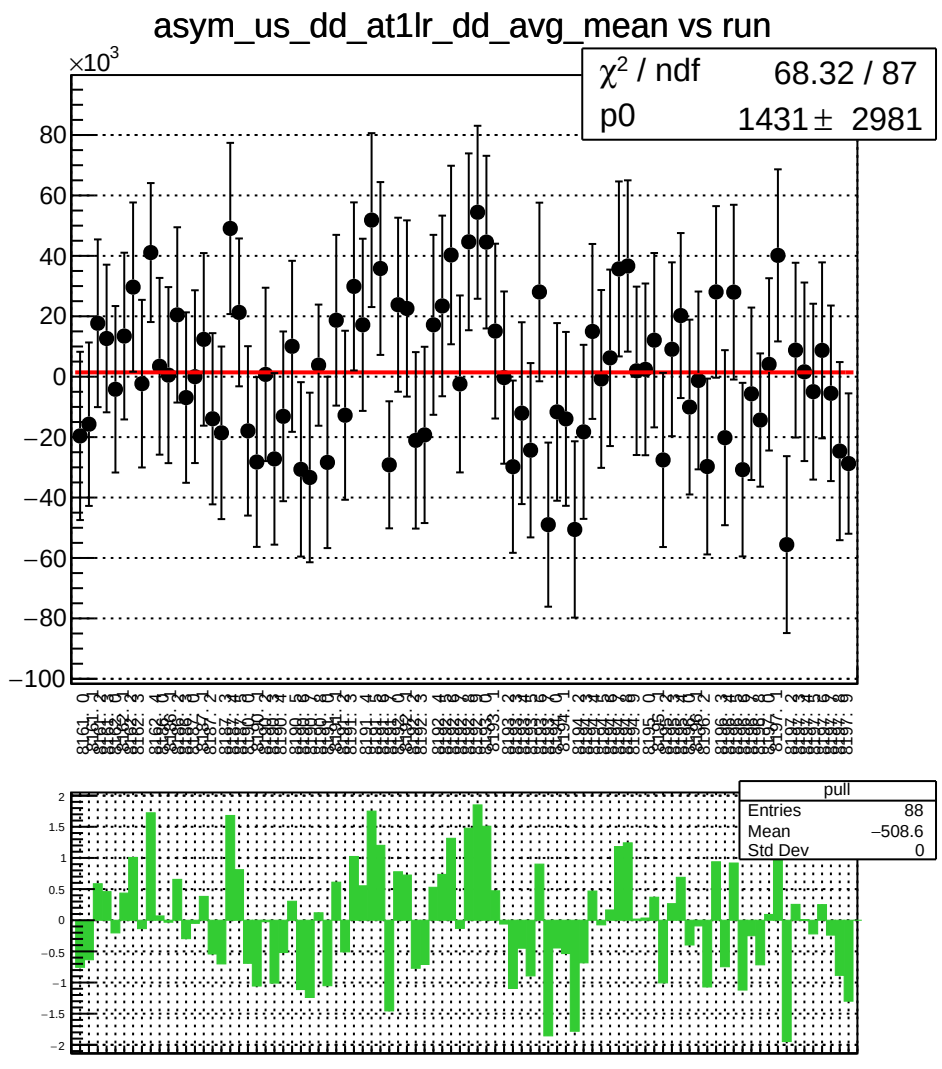

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 86.88 / 87
p0 106.4 ± 2372
pull
Entries 88
Mean −300.2
Std Dev 0

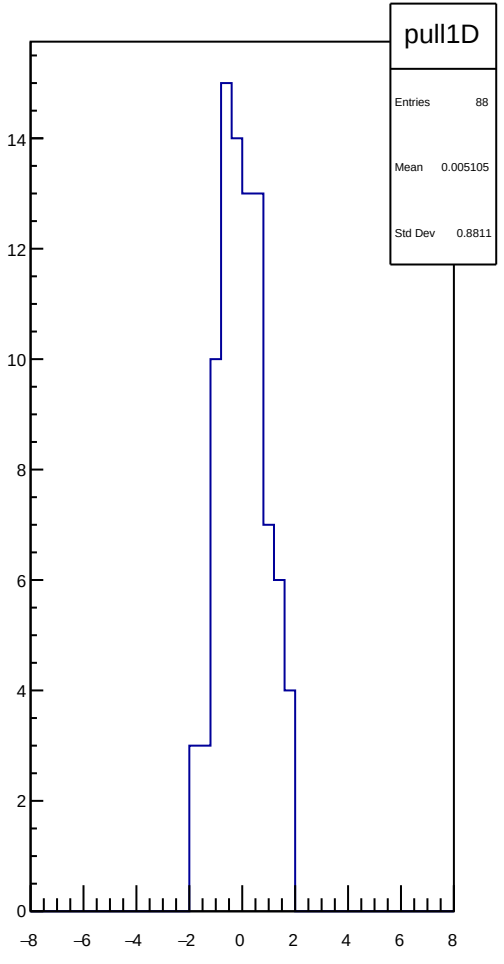

pull1D
Entries 88
Mean 0.006187
Std Dev 0.9936

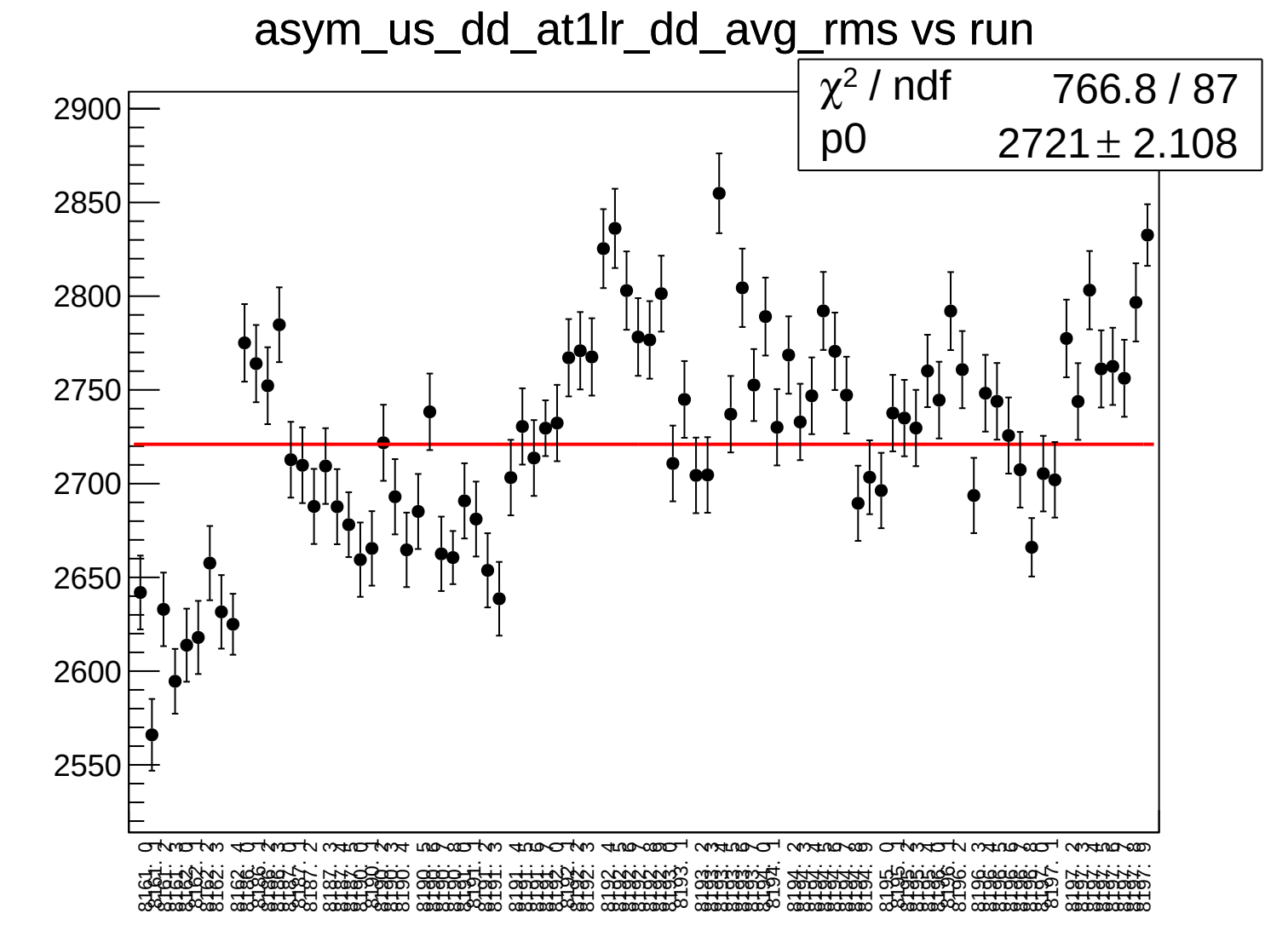

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 95.22 / 87
p0 2165 ± 1.677
2220
2200
2180
2160
2140
2120
2100

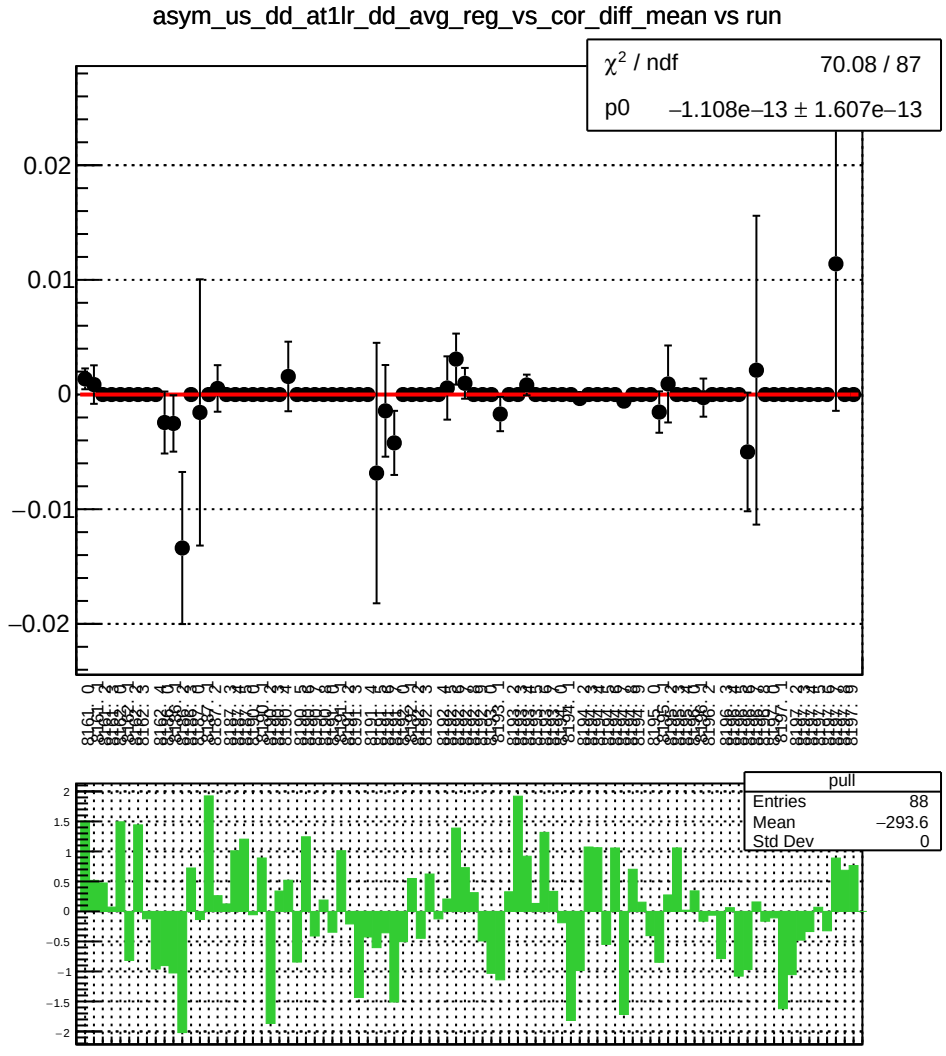

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.03 / 87
p0 −1279 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −991.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001973
Std Dev 0.9596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

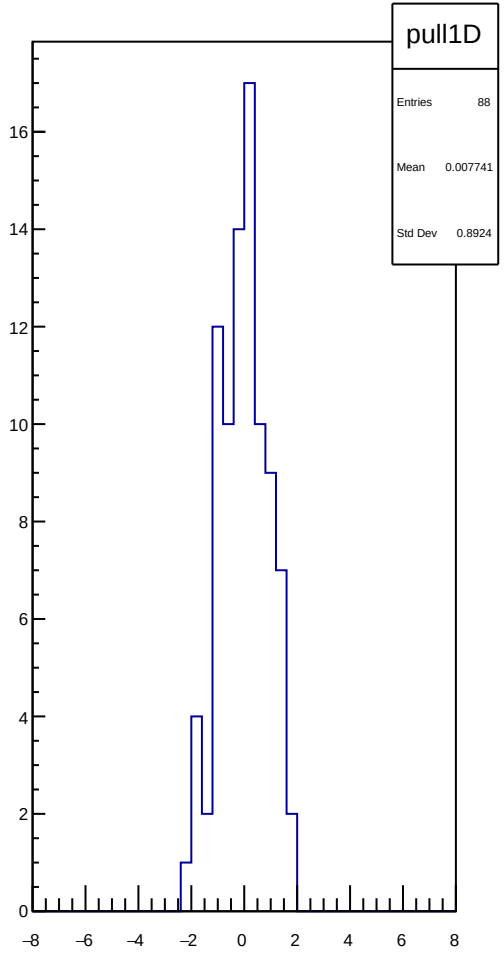

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3842 / 87
p0 1597 ± 1.238
1800
1750
1700
1650
1600
1550
1500
1450
1400

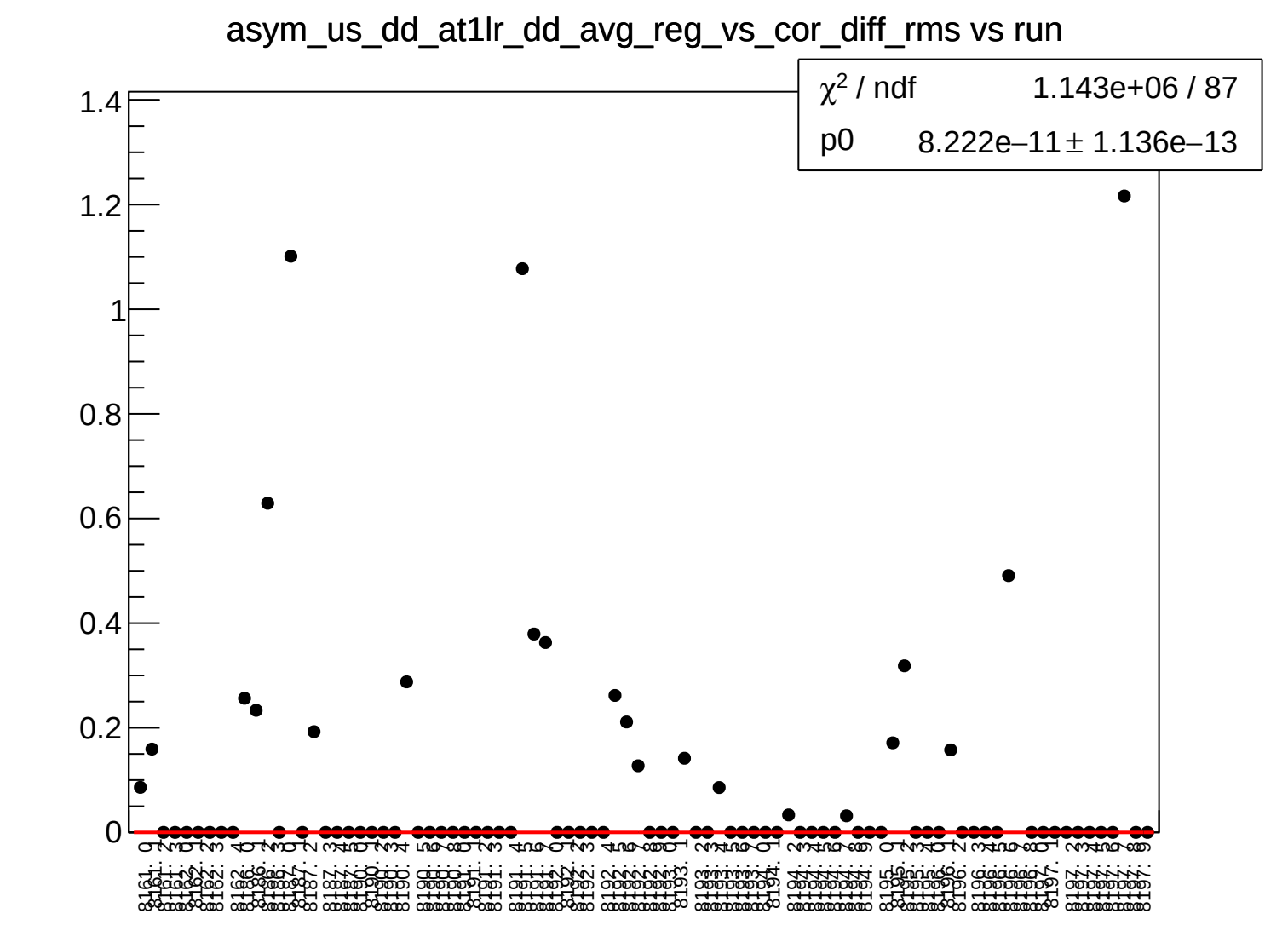

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 68.32 / 87
p0 1431 ± 2981
pull
Entries 88
Mean −508.6
Std Dev 0

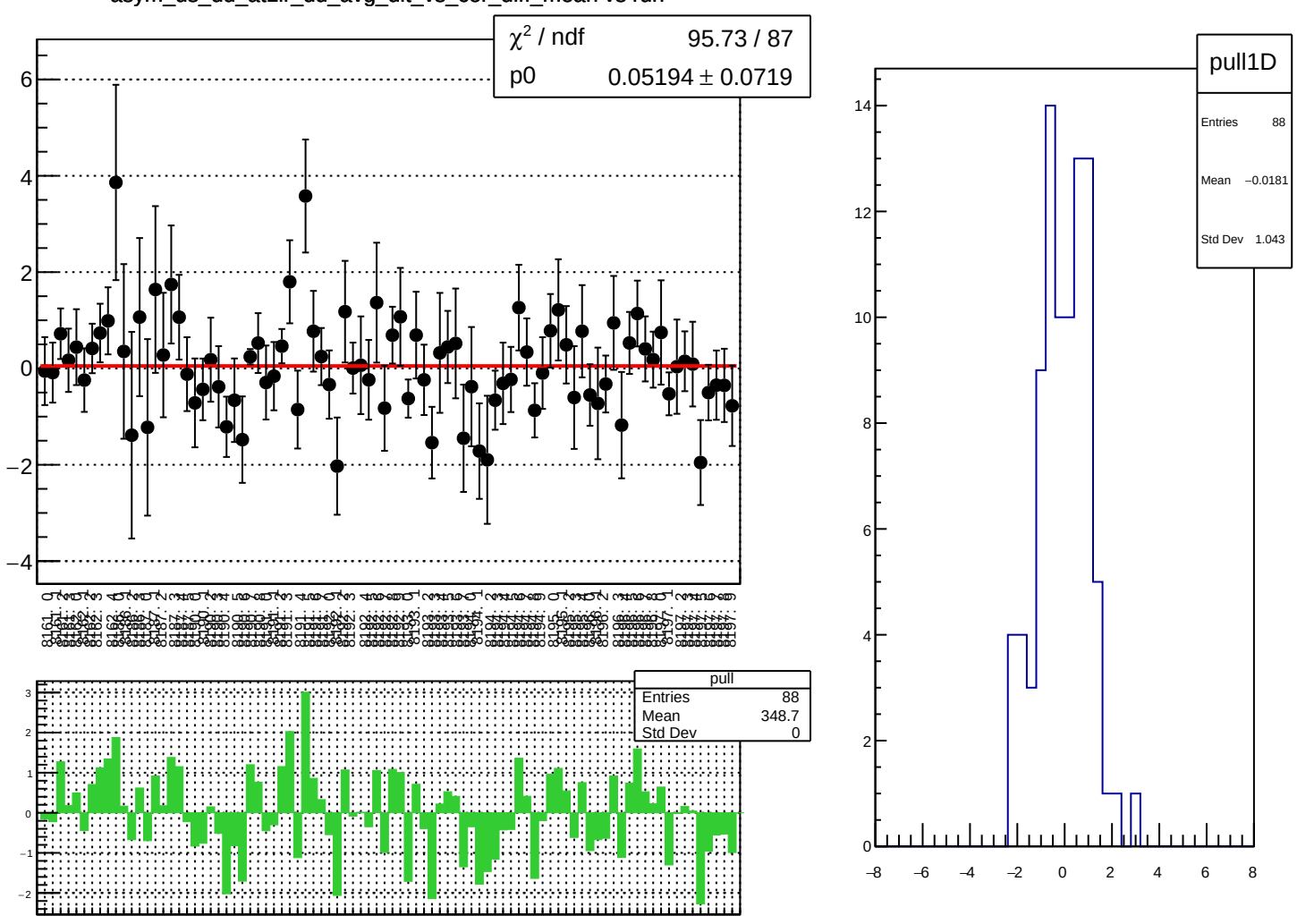

pull1D
Entries 88
Mean 0.005105
Std Dev 0.8811

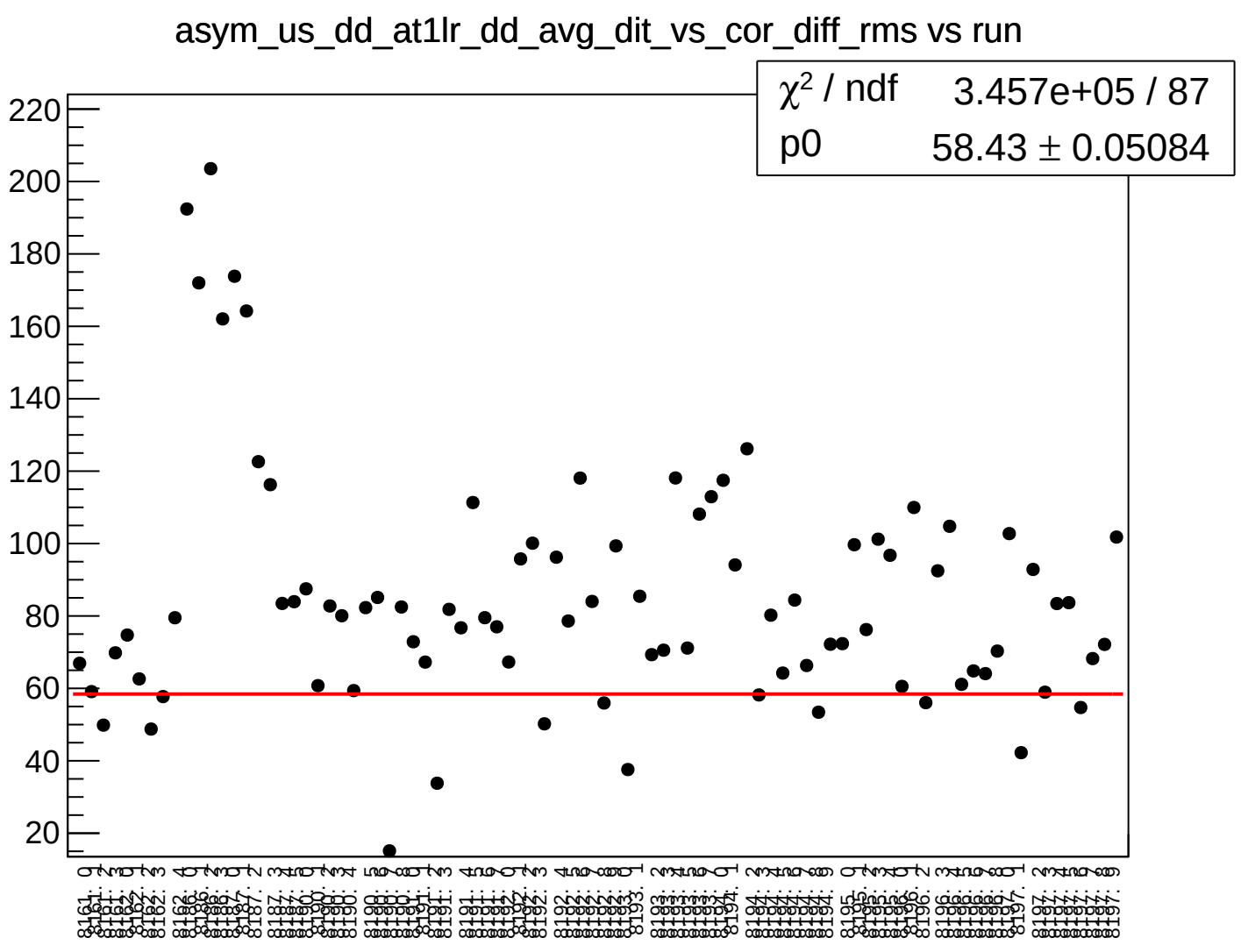

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 766.8 / 87
p0 2721 ± 2.108
2900
2850
2800
2750
2700
2650
2600
2550

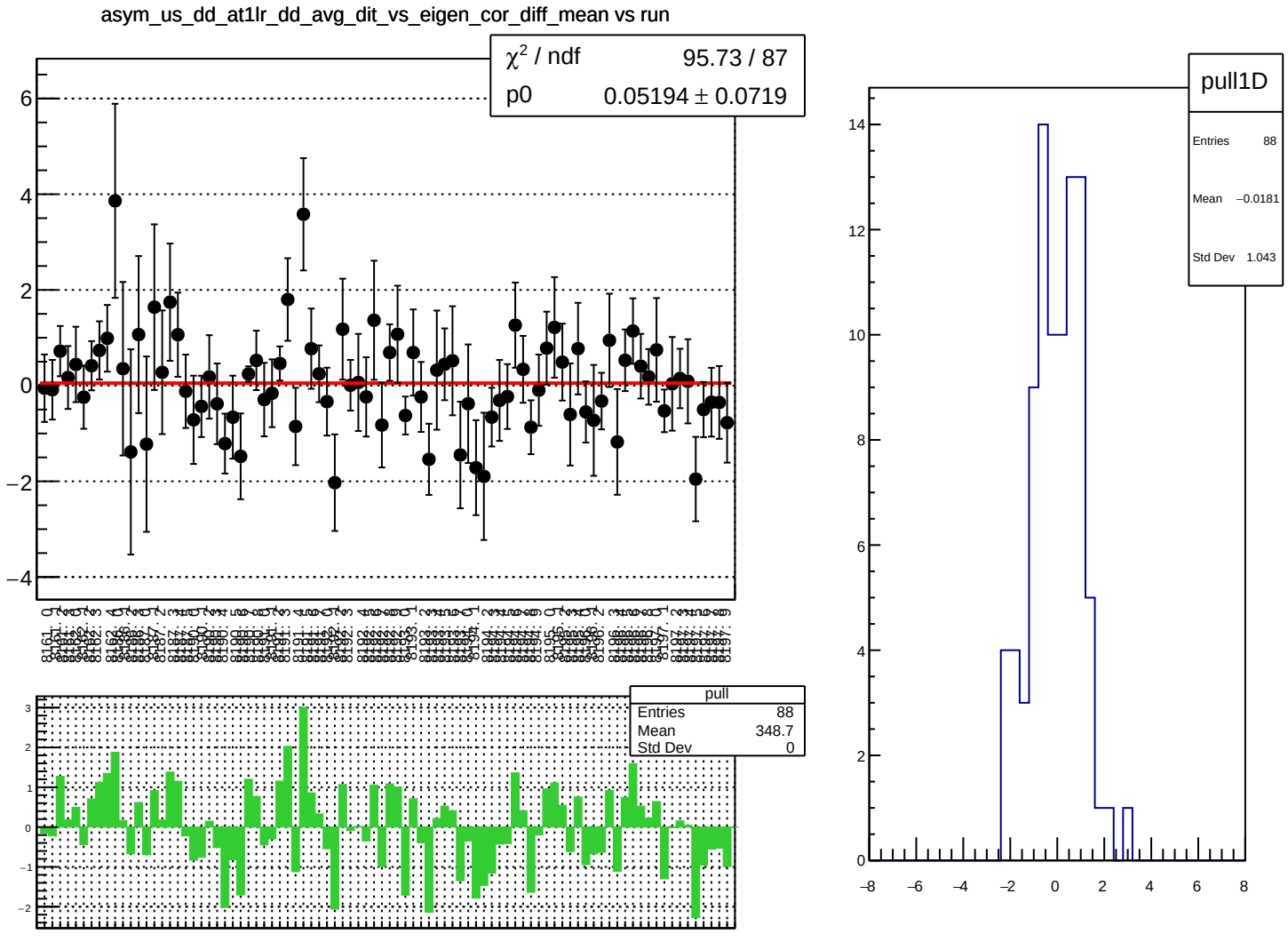

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.08 / 87
p0 −1.108e−13 ± 1.607e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean −293.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

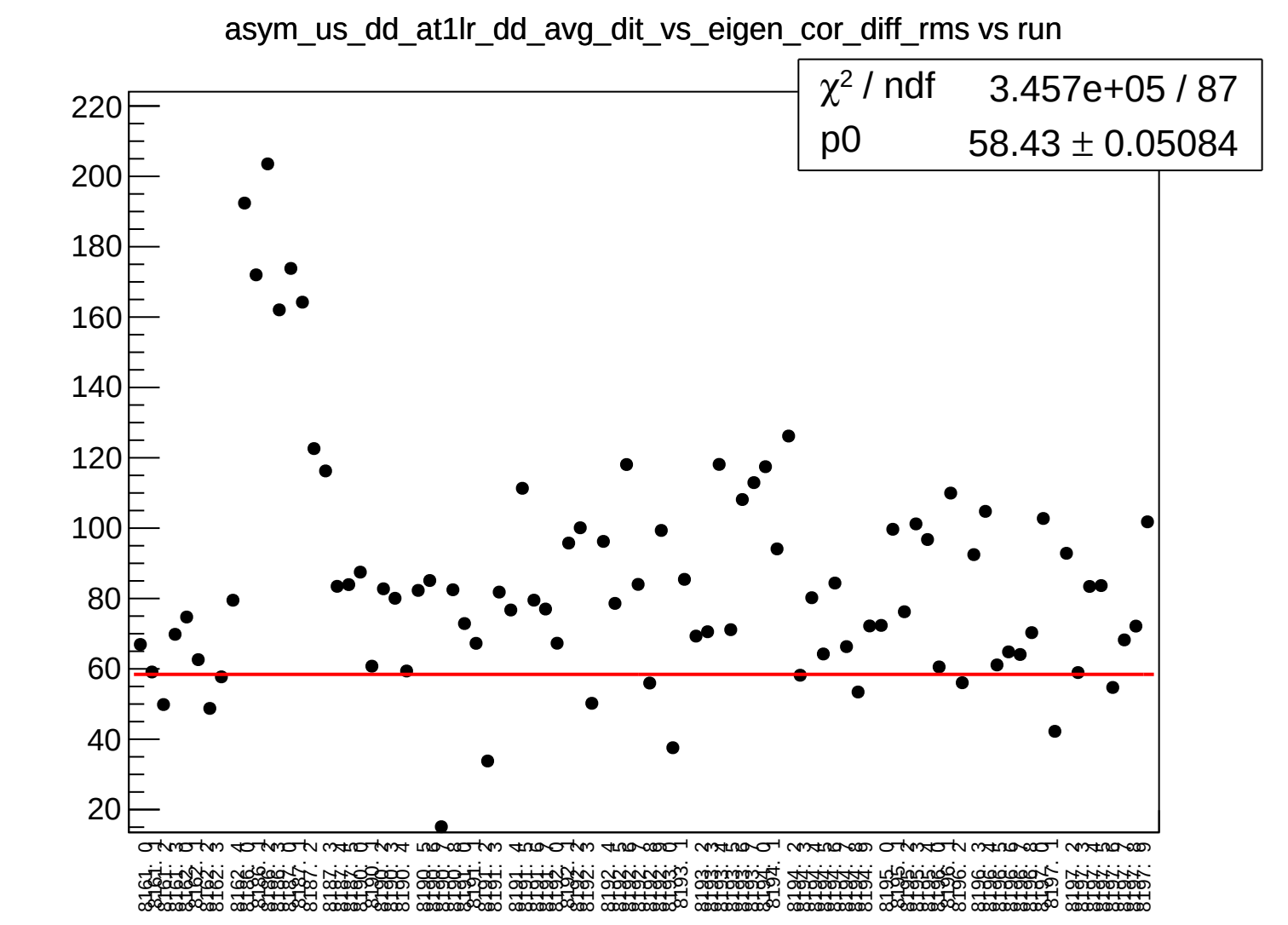

pull1D
Entries 88
Mean 0.007741
Std Dev 0.8924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

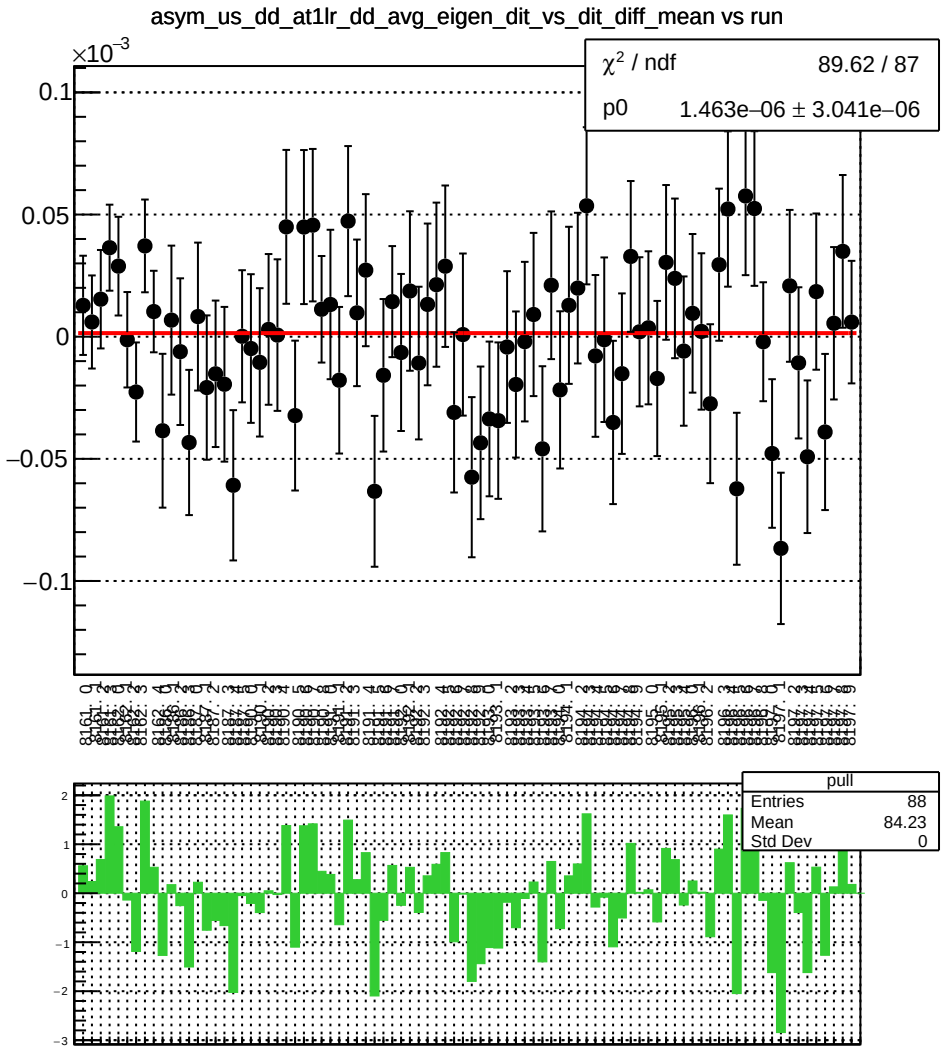

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.143e+06 / 87
p0 8.222e−11 ± 1.136e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

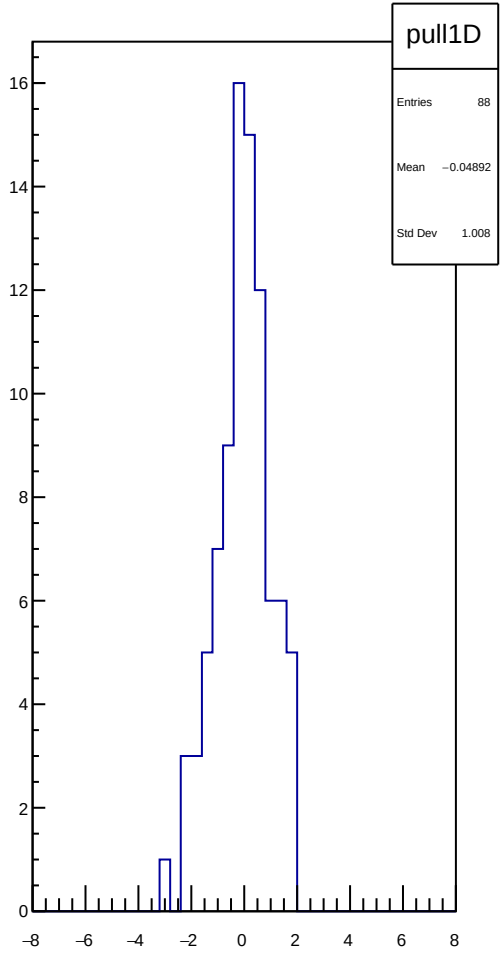

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.73 / 87
p0 0.05194 ± 0.0719
pull
Entries 88
Mean 348.7
Std Dev 0
pull1D
Entries 88
Mean −0.0181
Std Dev 1.043

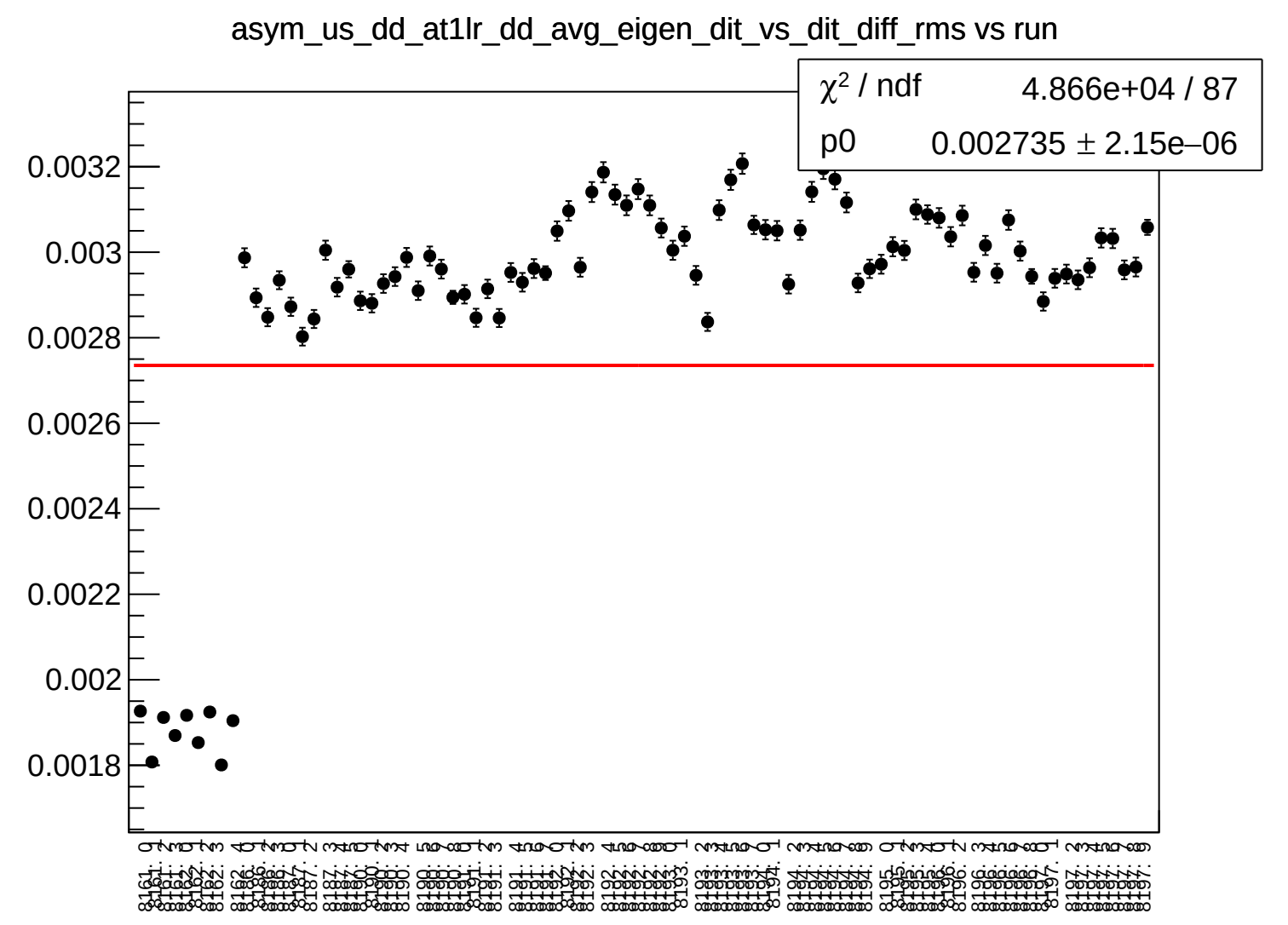

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.457e+05 / 87
p0 58.43 ± 0.05084
220
200
180
160
140
120
100
80
60
40
20

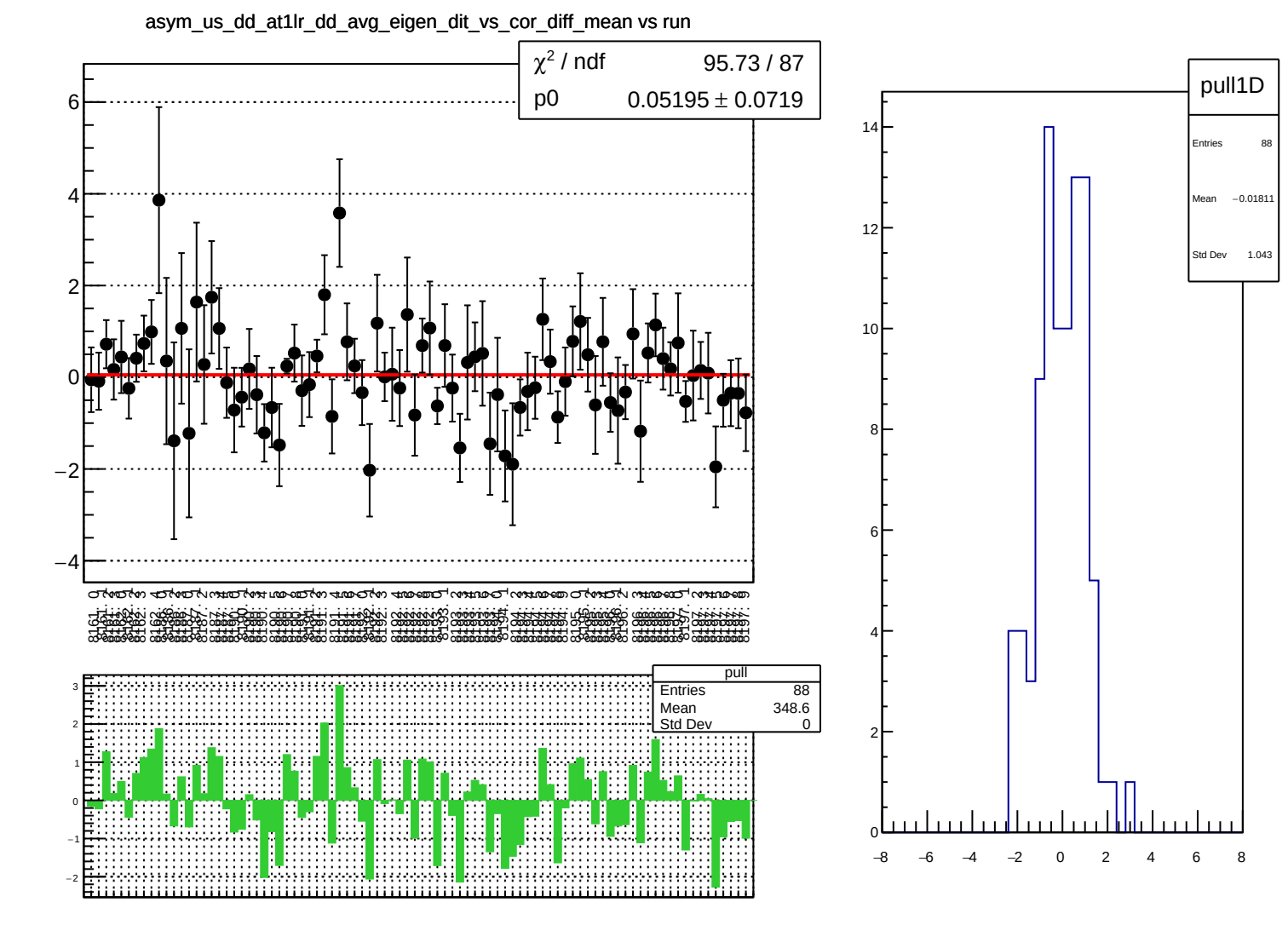

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.73 / 87
p0 0.05194 ± 0.0719
pull
Entries 88
Mean 348.7
Std Dev 0
pull1D
Entries 88
Mean −0.0181
Std Dev 1.043

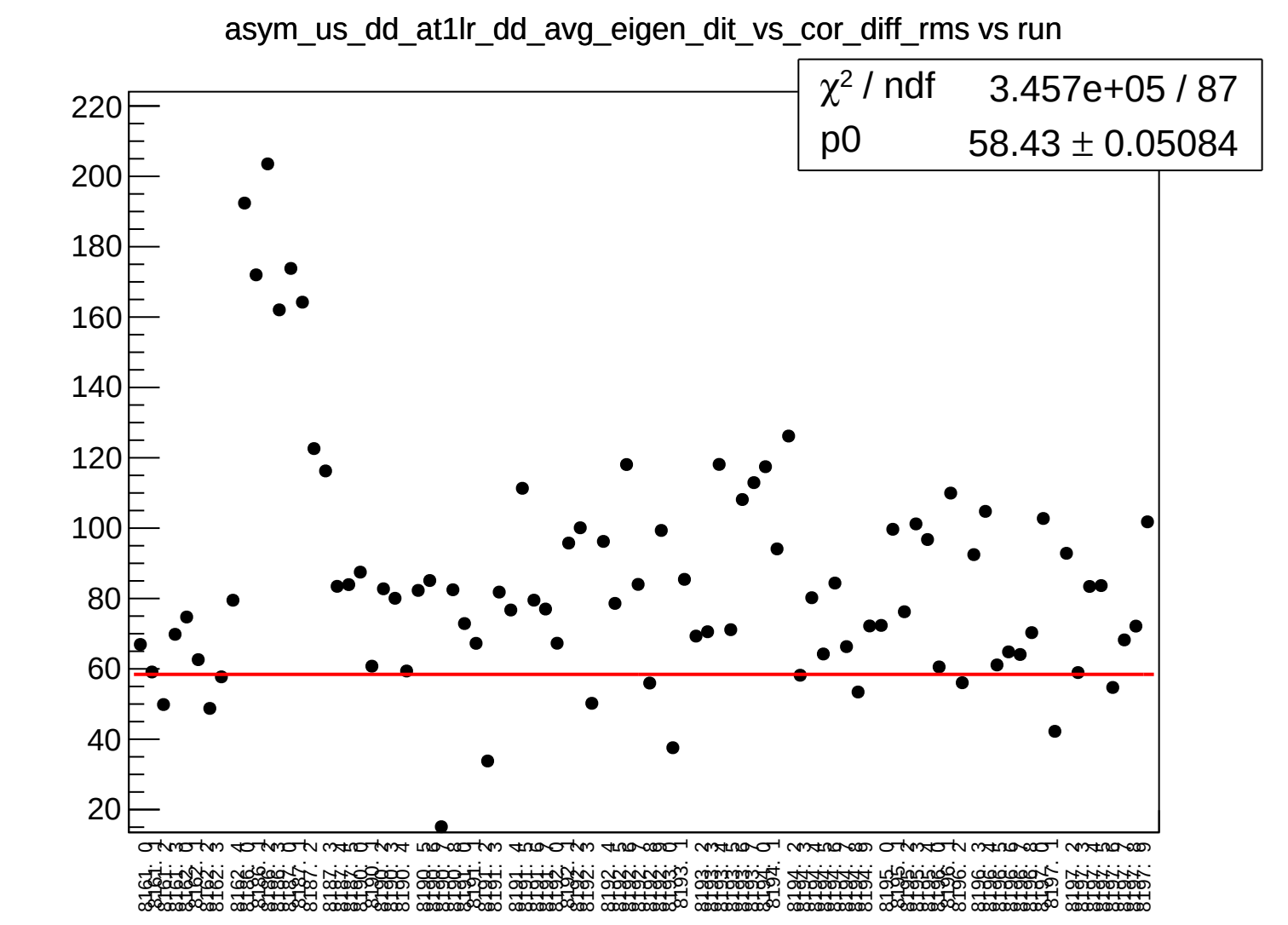

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.457e+05 / 87
p0 58.43 ± 0.05084
220
200
180
160
140
120
100
80
60
40
20

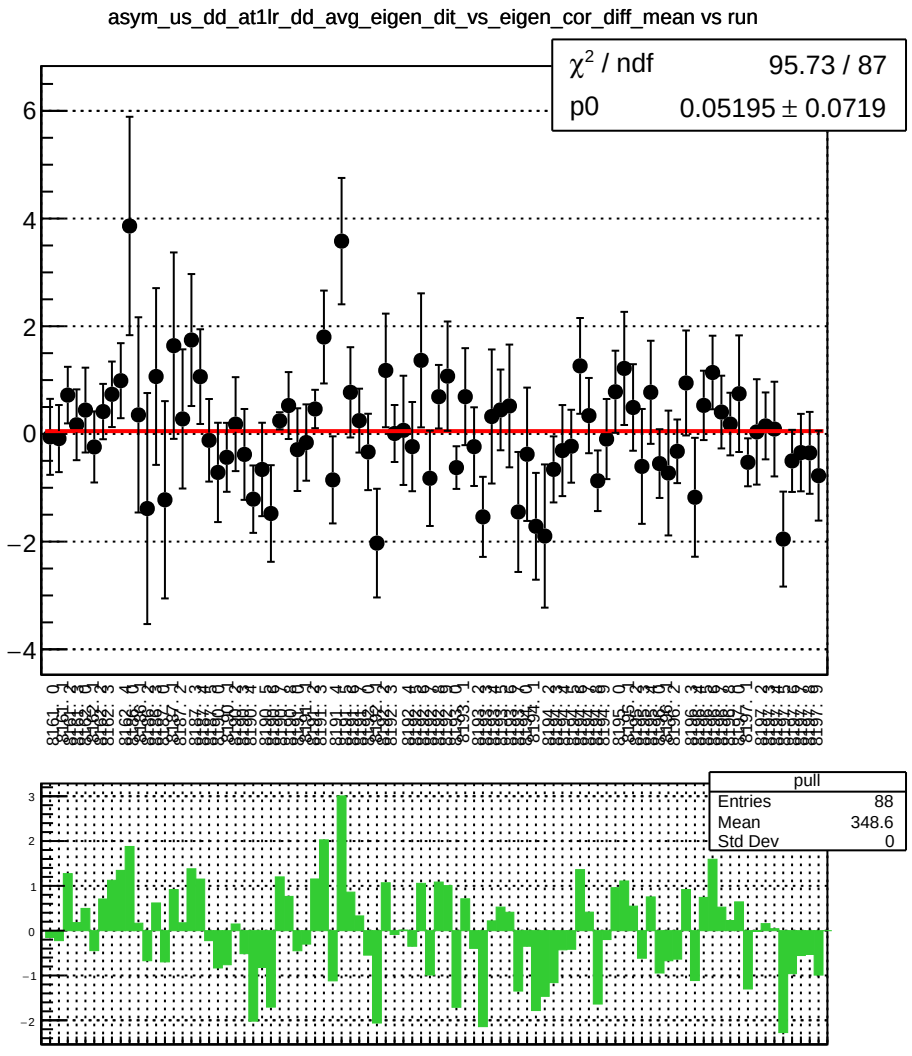

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.62 / 87
p0 1.463e−06 ± 3.041e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 84.23
Std Dev 0
2
1
0
−1
−2
−3

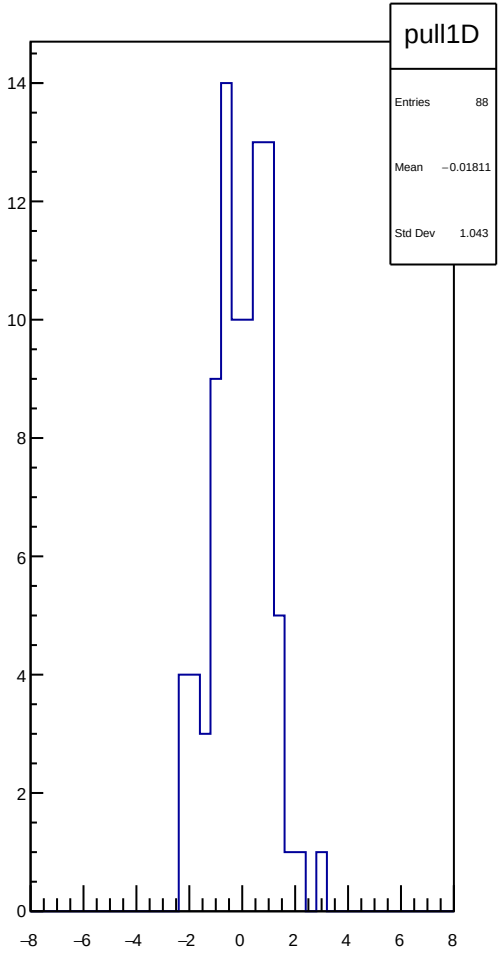

pull1D
Entries 88
Mean −0.04892
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

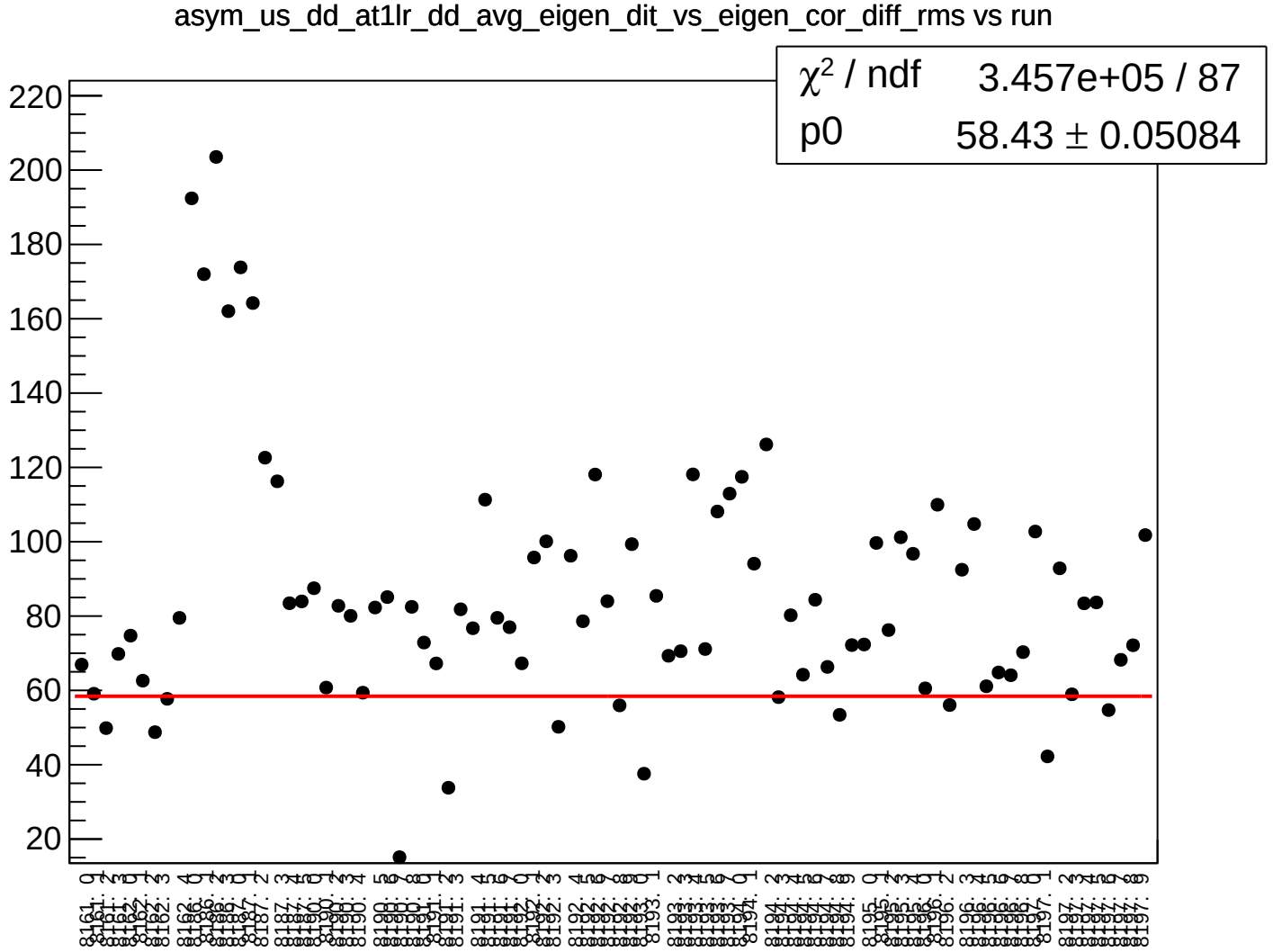

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.866e+04 / 87
p0 0.002735 ± 2.15e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

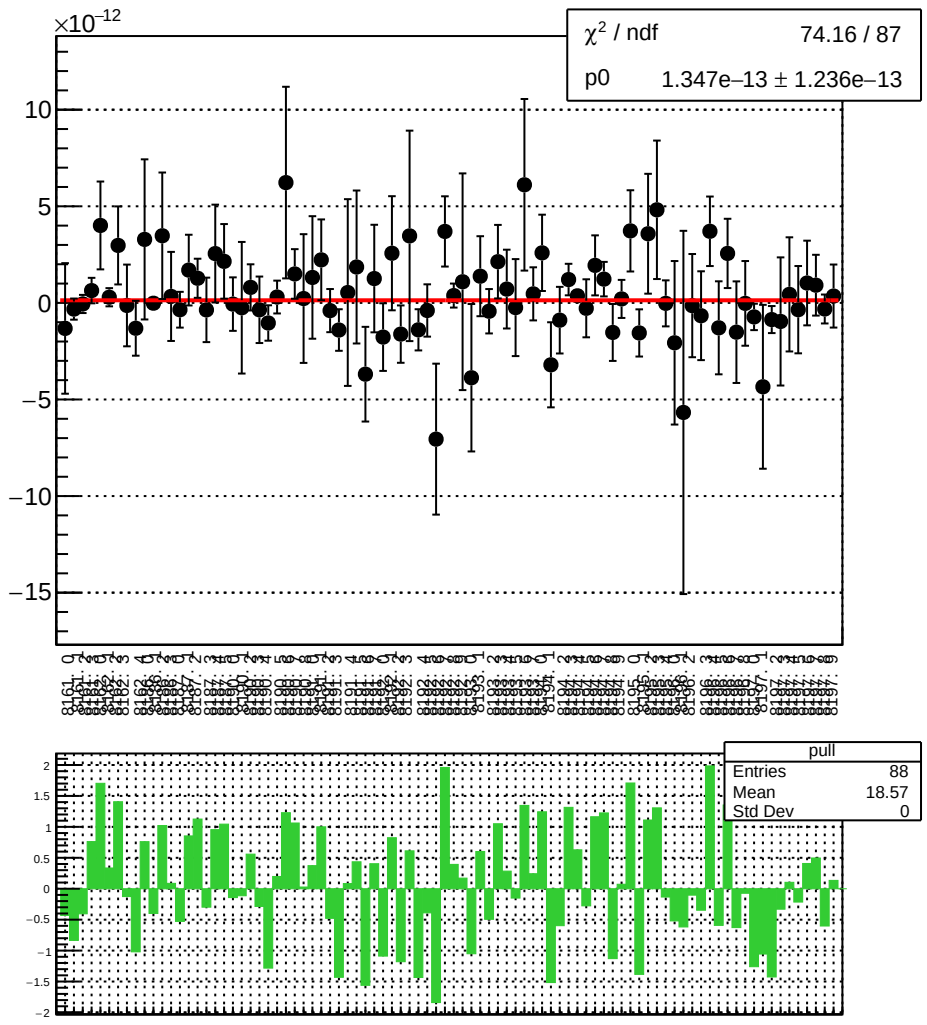

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.73 / 87
p0 0.05195 ± 0.0719
pull
Entries 88
Mean 348.6
Std Dev 0
pull1D
Entries 88
Mean −0.01811
Std Dev 1.043

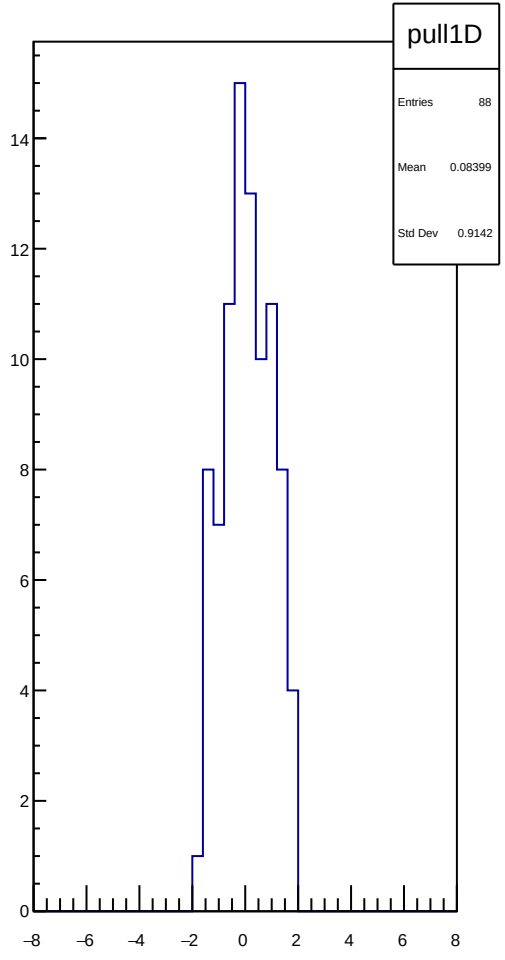

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.457e+05 / 87
p0 58.43 ± 0.05084
220
200
180
160
140
120
100
80
60
40
20

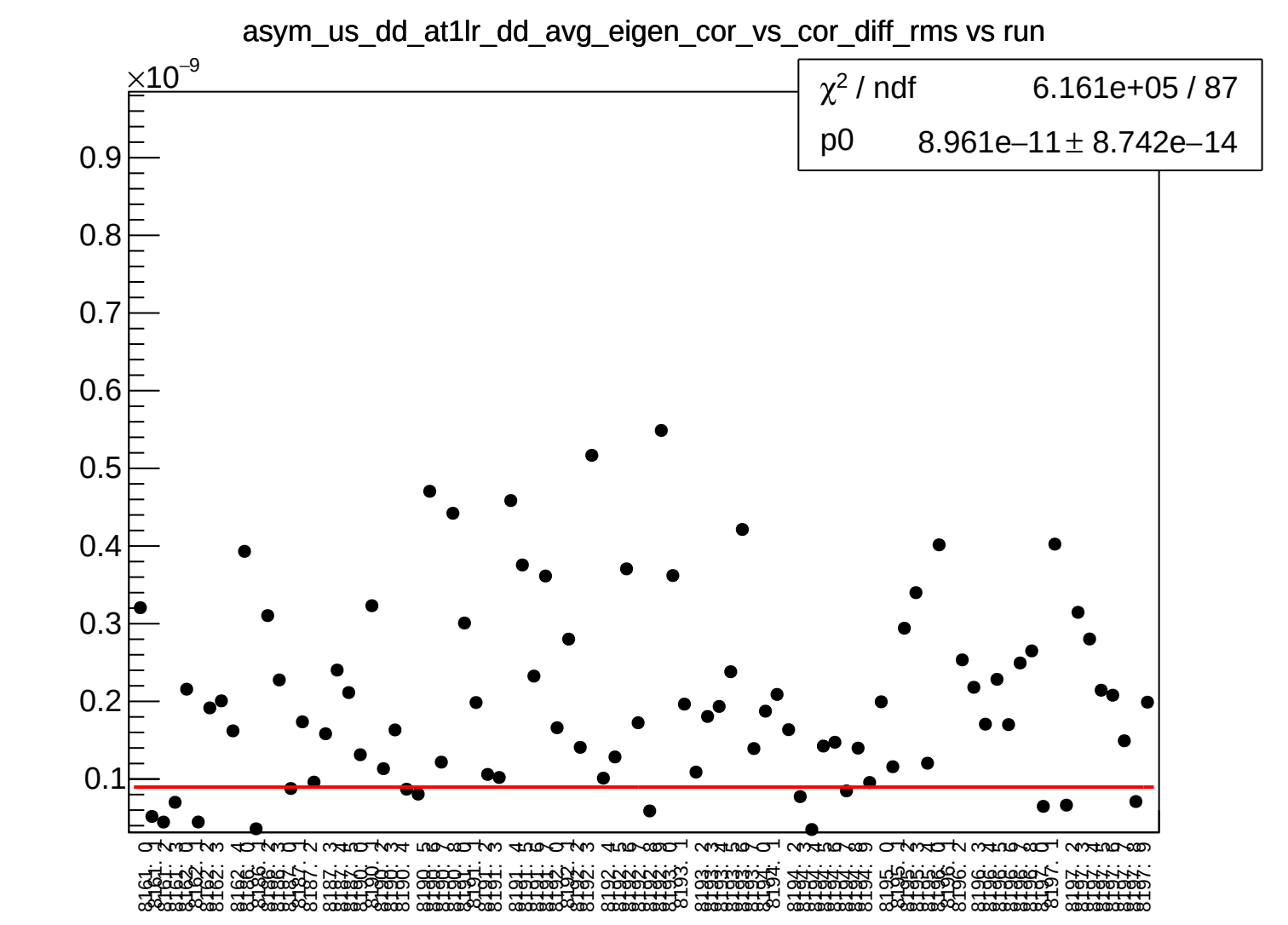

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.73 / 87
p0 0.05195 ± 0.0719
pull
Entries 88
Mean 348.6
Std Dev 0

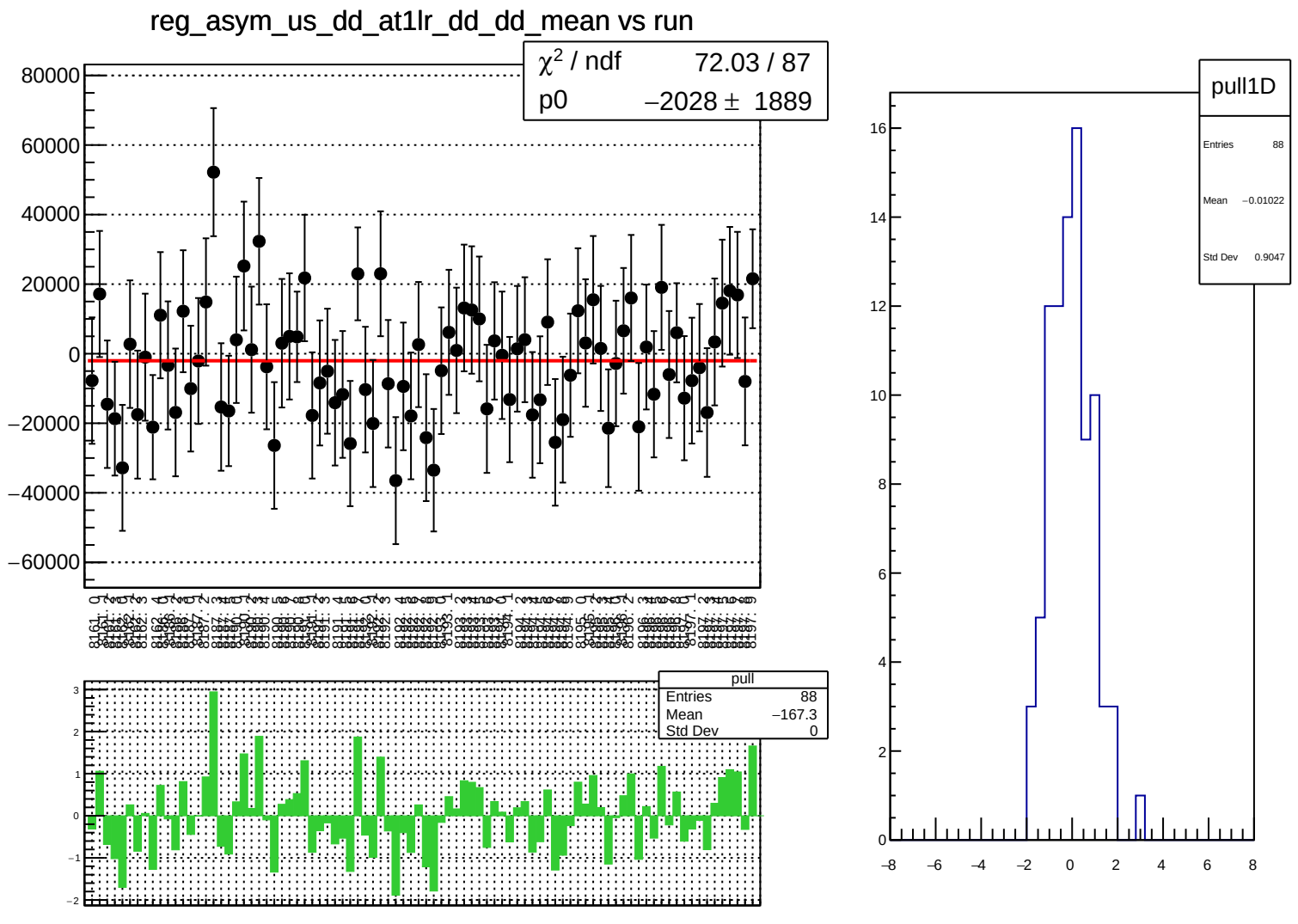

pull1D
Entries 88
Mean −0.01811
Std Dev 1.043

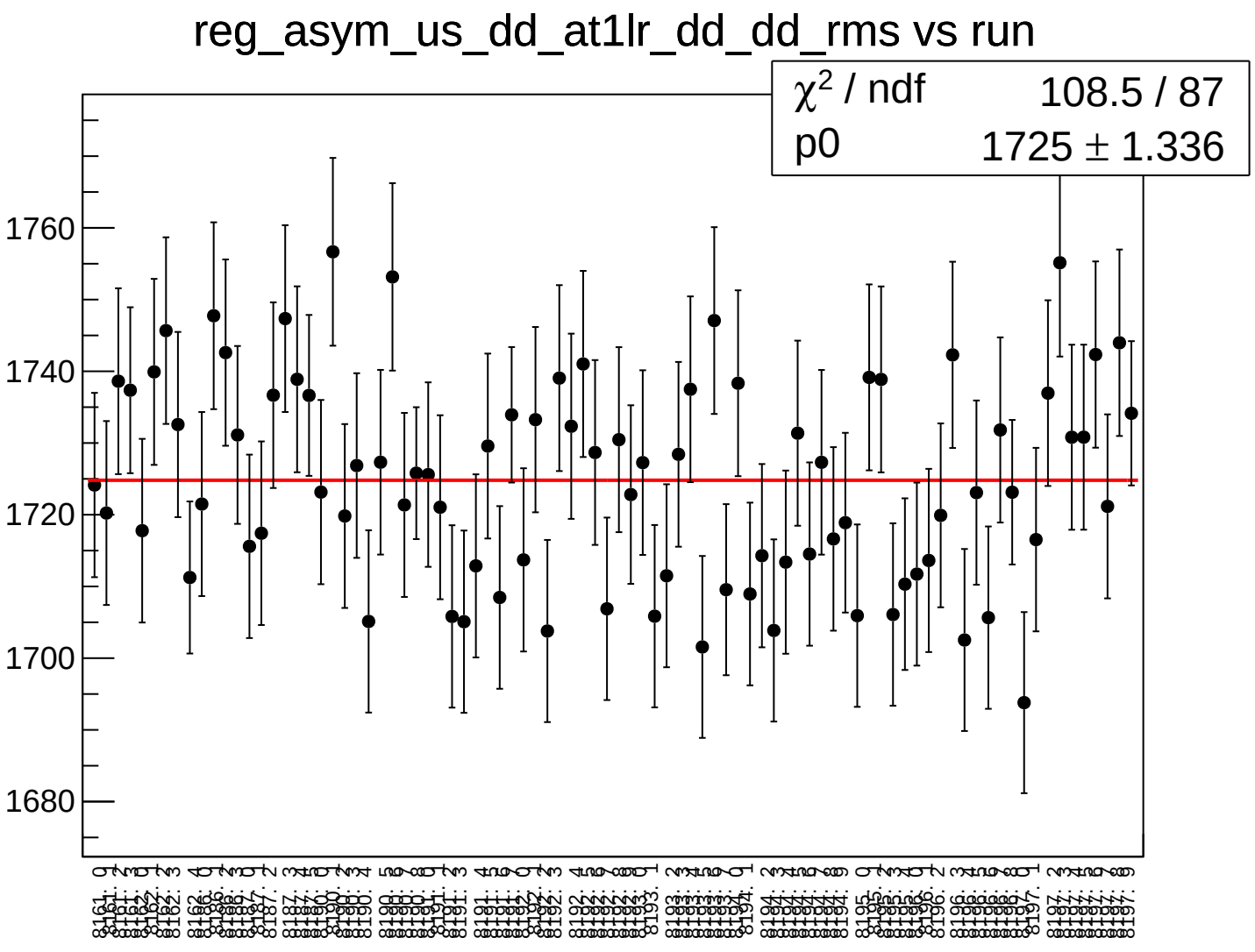

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.457e+05 / 87
p0 58.43 ± 0.05084
220
200
180
160
140
120
100
80
60
40
20

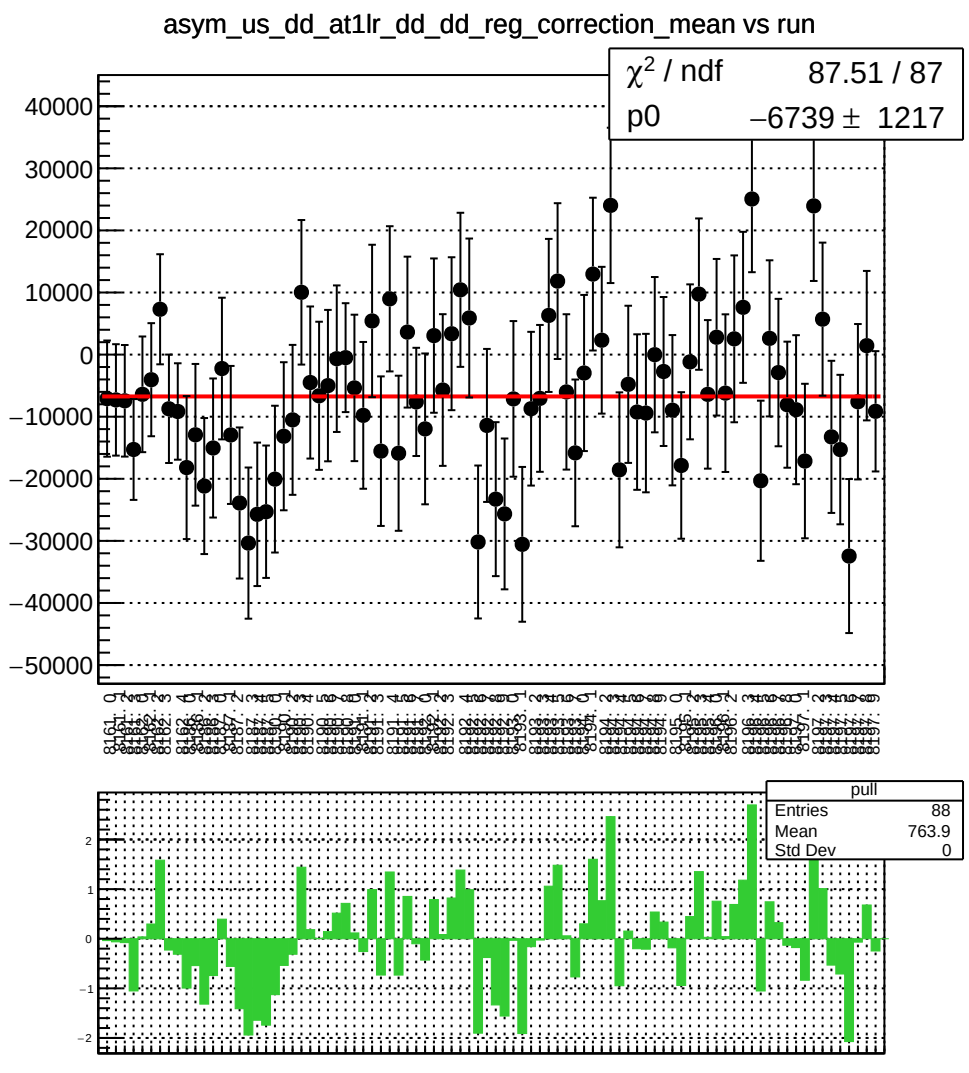

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.16 / 87
p0 1.347e−13 ± 1.236e−13
pull
Entries 88
Mean 18.57
Std Dev 0

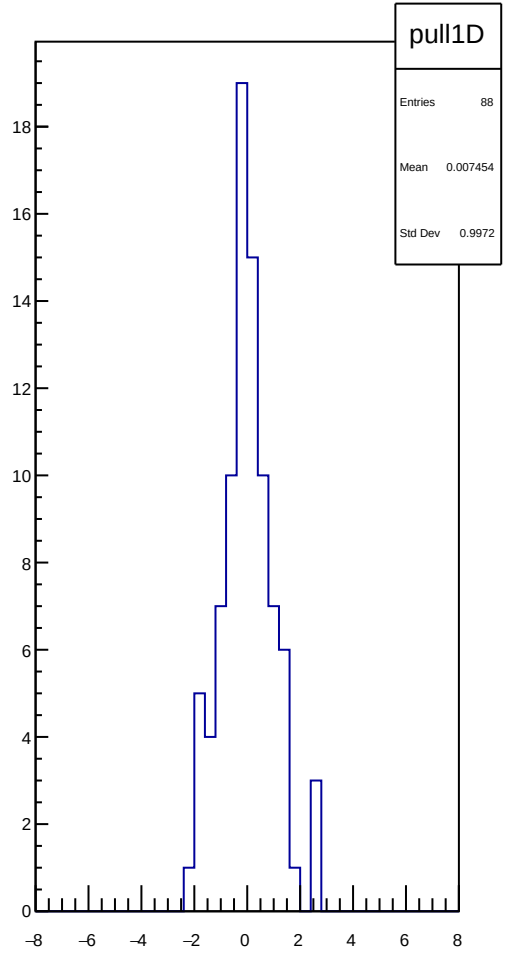

pull1D
Entries 88
Mean 0.08399
Std Dev 0.9142

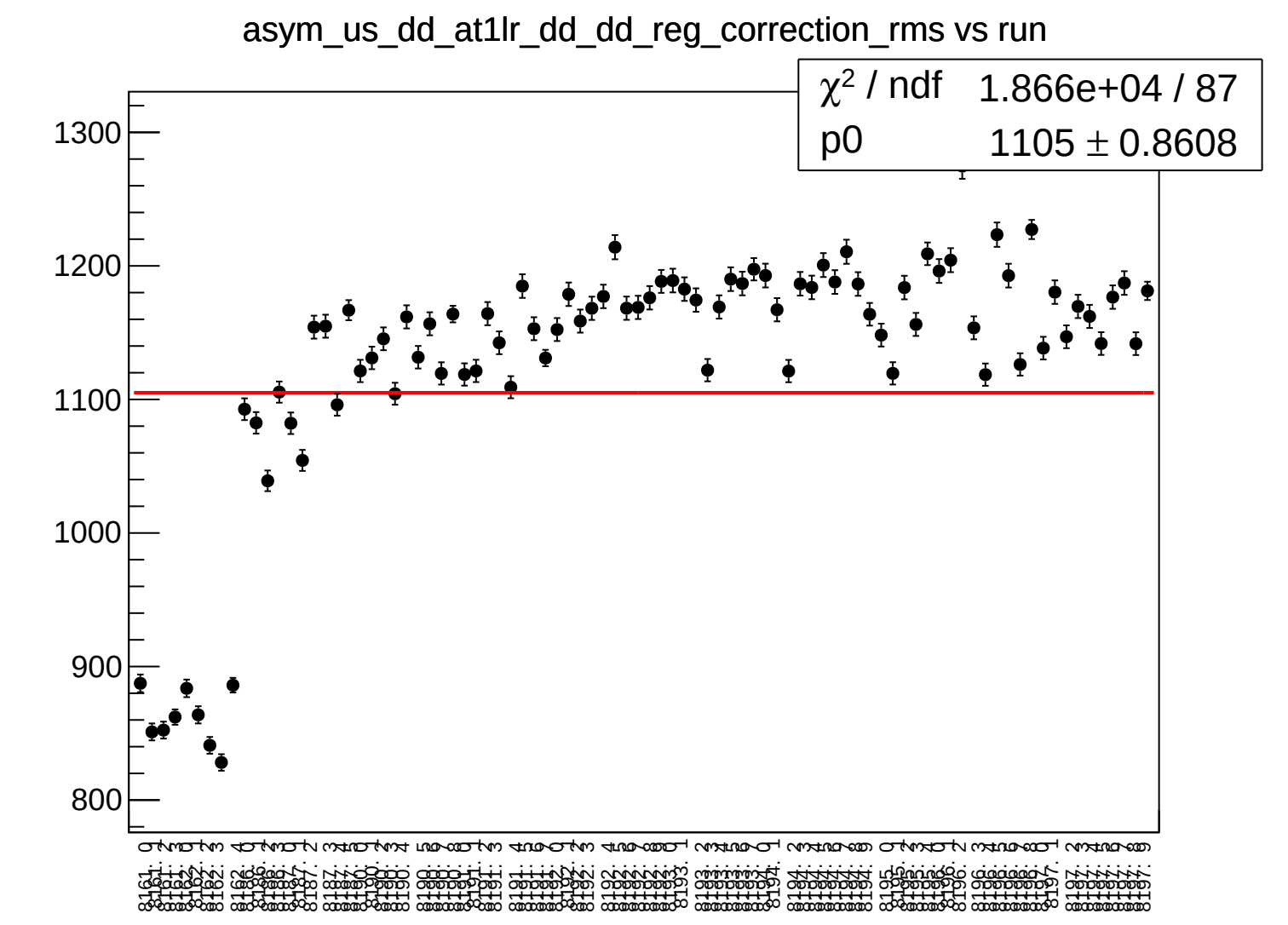

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.161e+05 / 87
p0 8.961e−11 ± 8.742e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

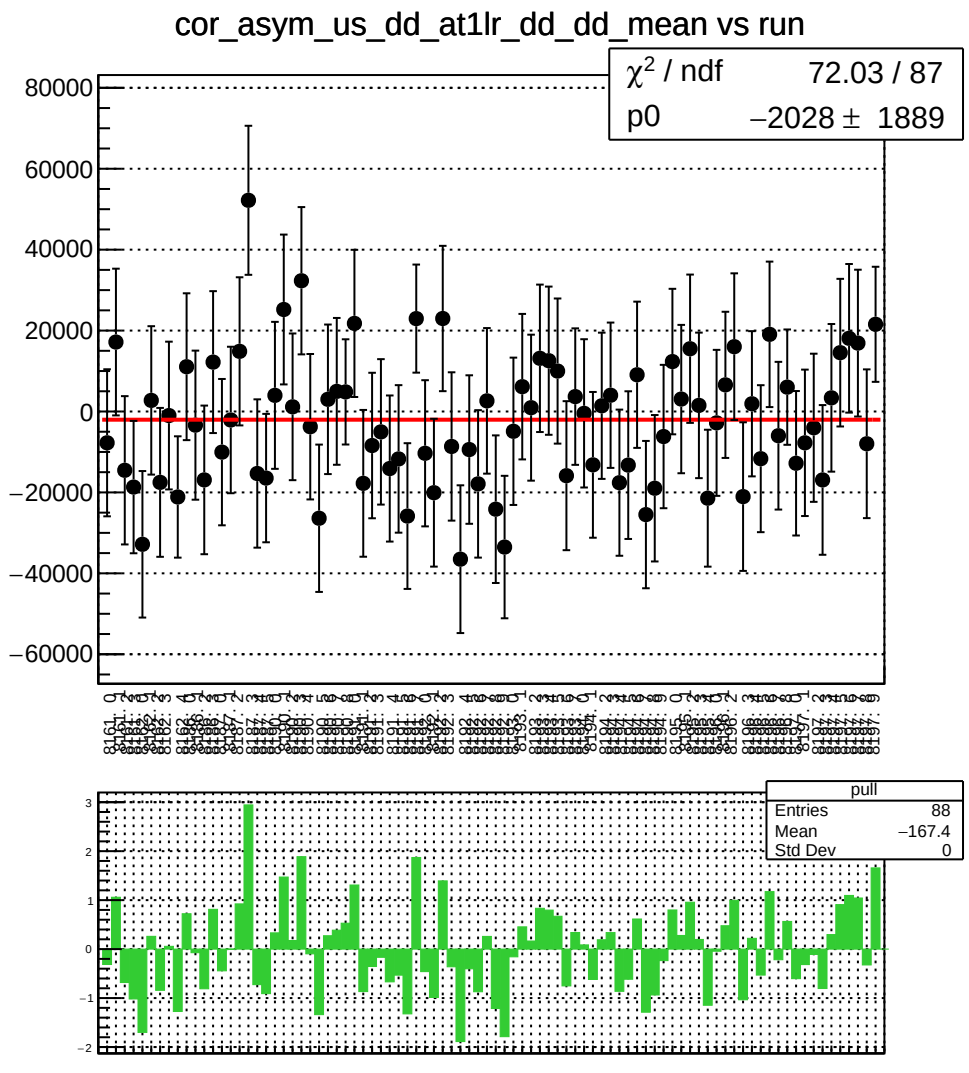

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 72.03 / 87
p0 −2028 ± 1889
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −167.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01022
Std Dev 0.9047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

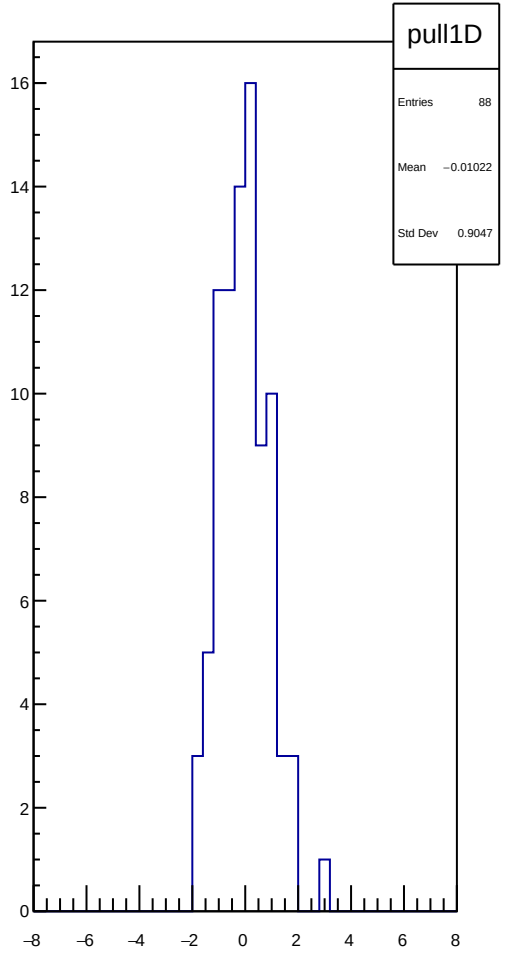

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 108.5 / 87
p0 1725 ± 1.336
1760
1740
1720
1700
1680

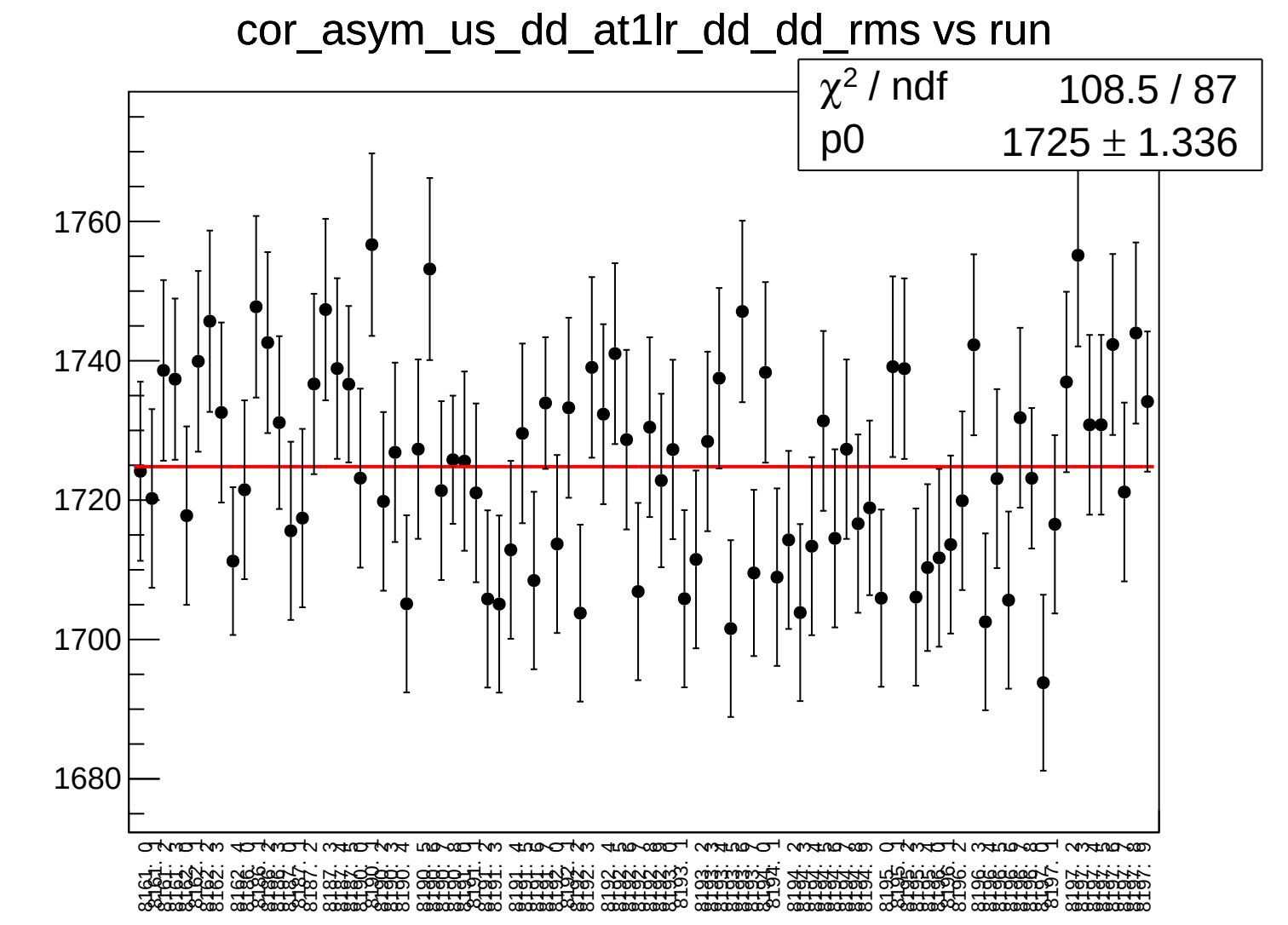

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 87.51 / 87
p0 −6739 ± 1217
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean 763.9
Std Dev 0
2
1
0
−1
−2

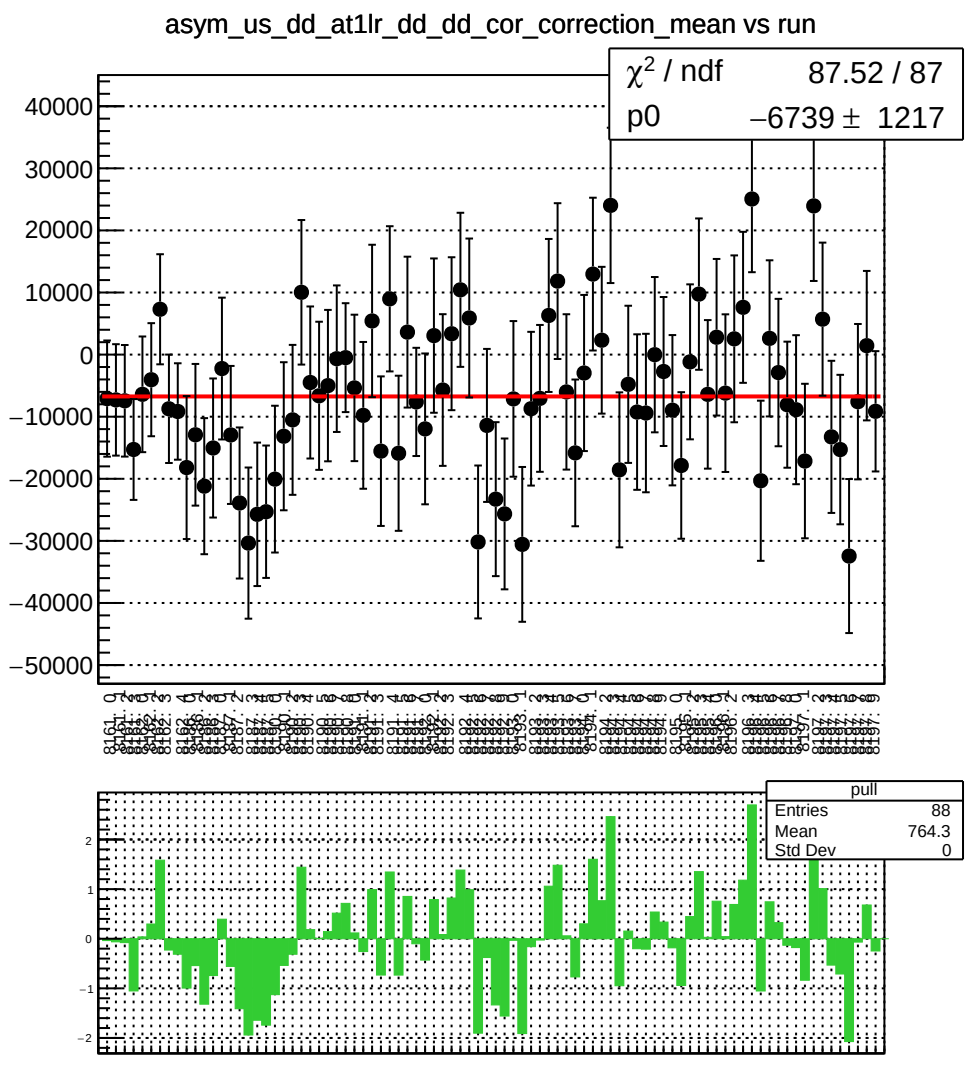

pull1D
Entries 88
Mean 0.007454
Std Dev 0.9972
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

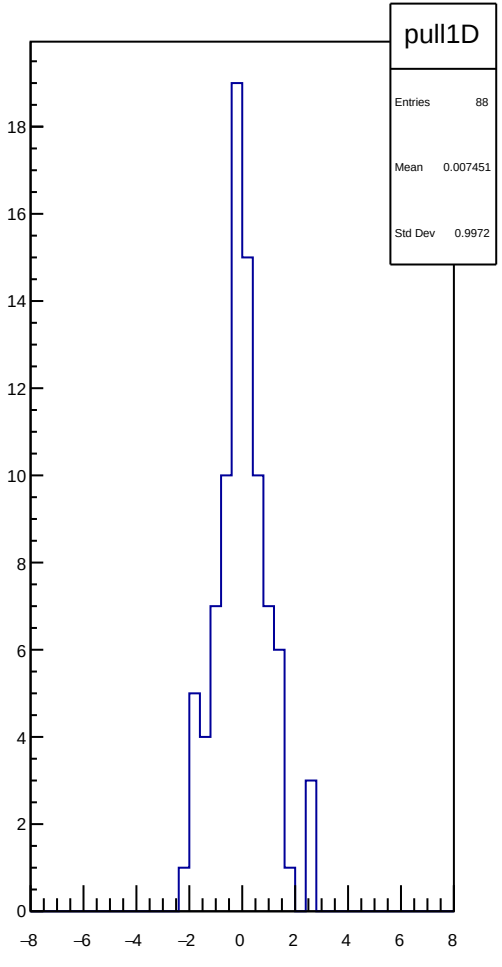

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.866e+04 / 87
p0 1105 ± 0.8608
1300
1200
1100
1000
900
800

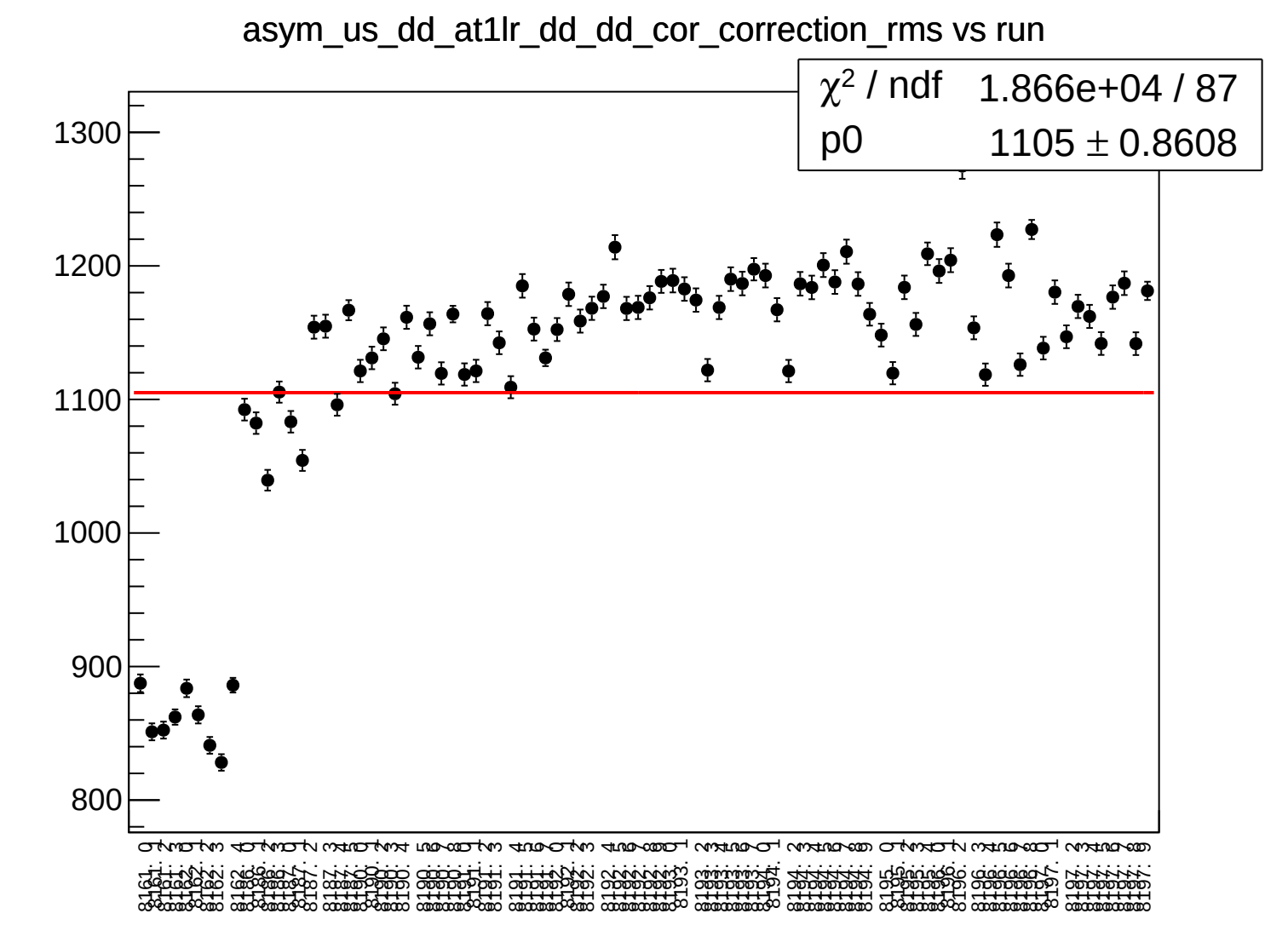

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 72.03 / 87
p0 −2028 ± 1889
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −167.4
Std Dev 0
3
2
1
0
−1
−2

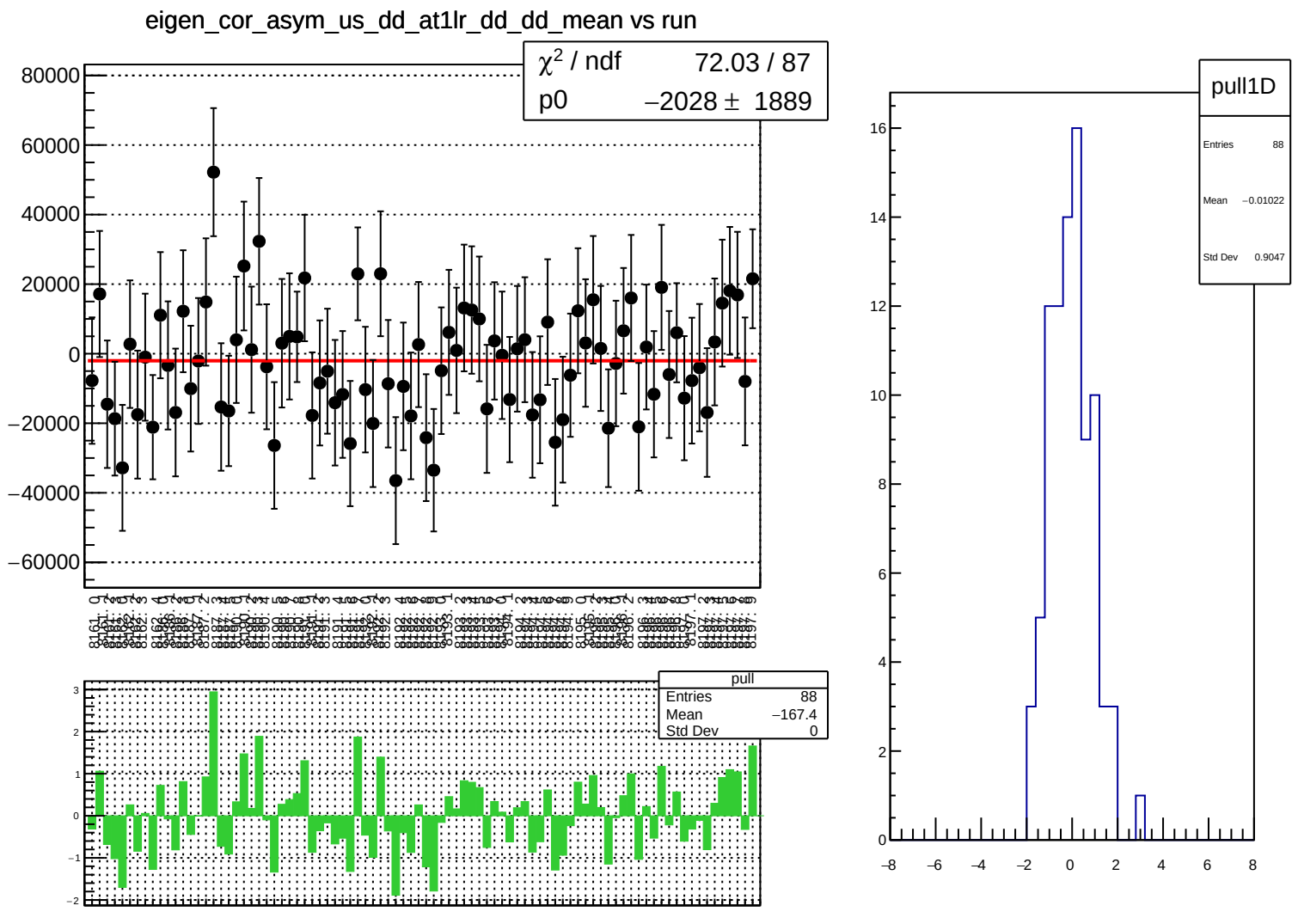

pull1D
Entries 88
Mean −0.01022
Std Dev 0.9047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

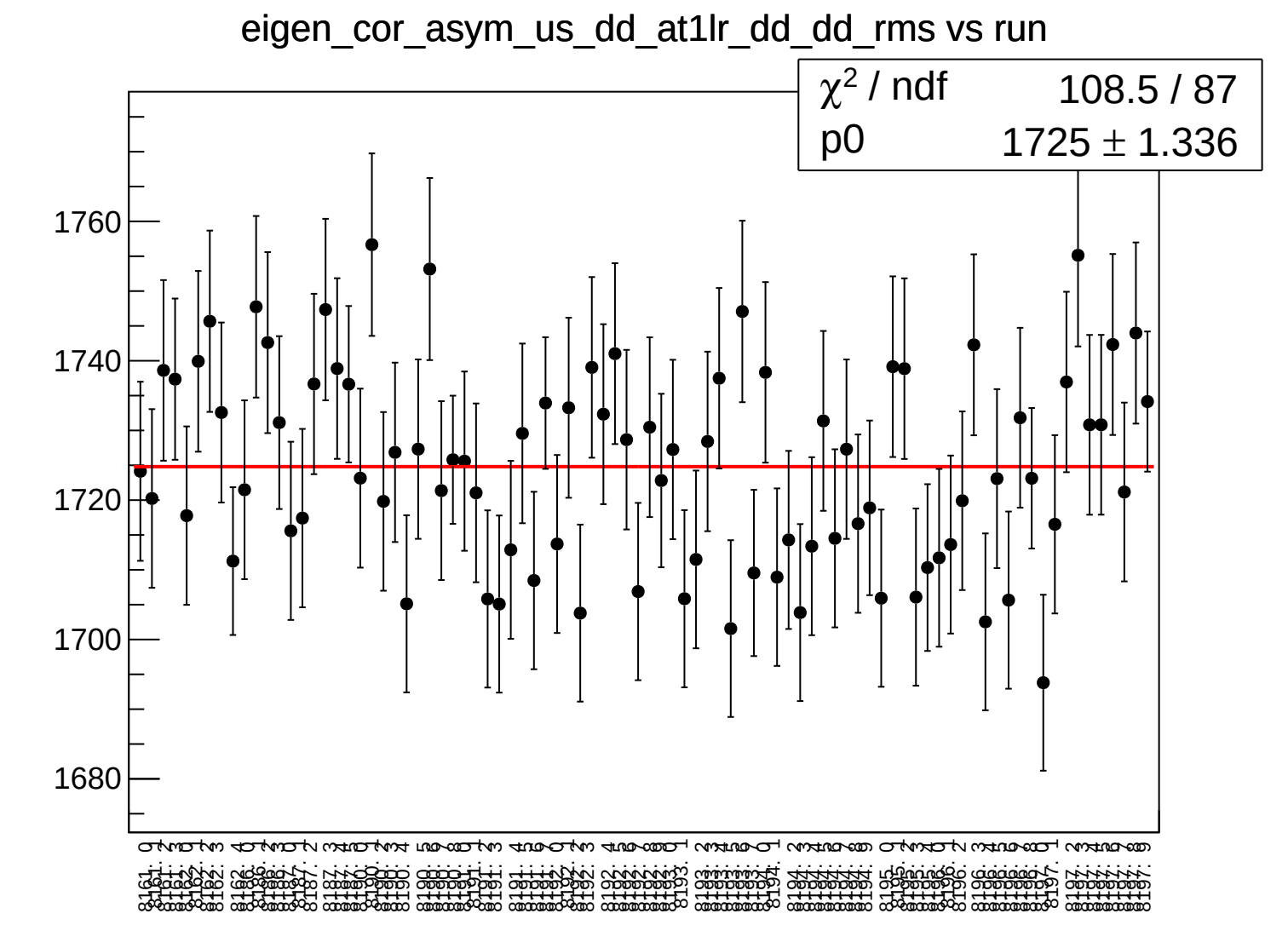

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 108.5 / 87
p0 1725 ± 1.336
1760
1740
1720
1700
1680

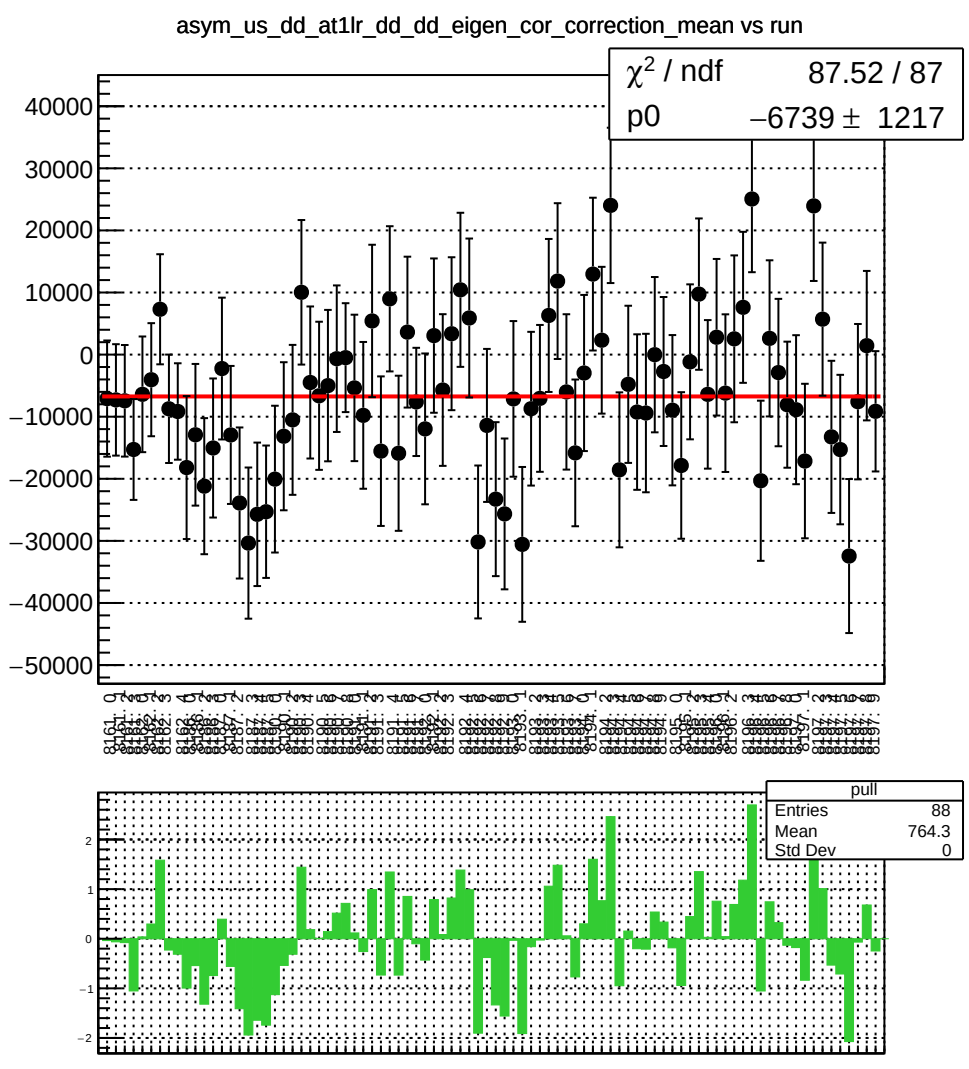

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 87.52 / 87
p0 −6739 ± 1217
pull
Entries 88
Mean 764.3
Std Dev 0

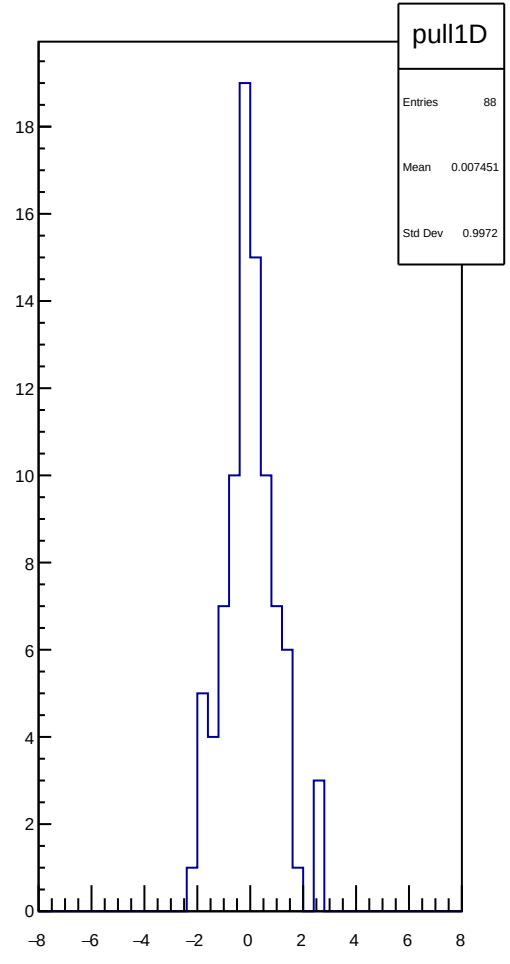

pull1D
Entries 88
Mean 0.007451
Std Dev 0.9972

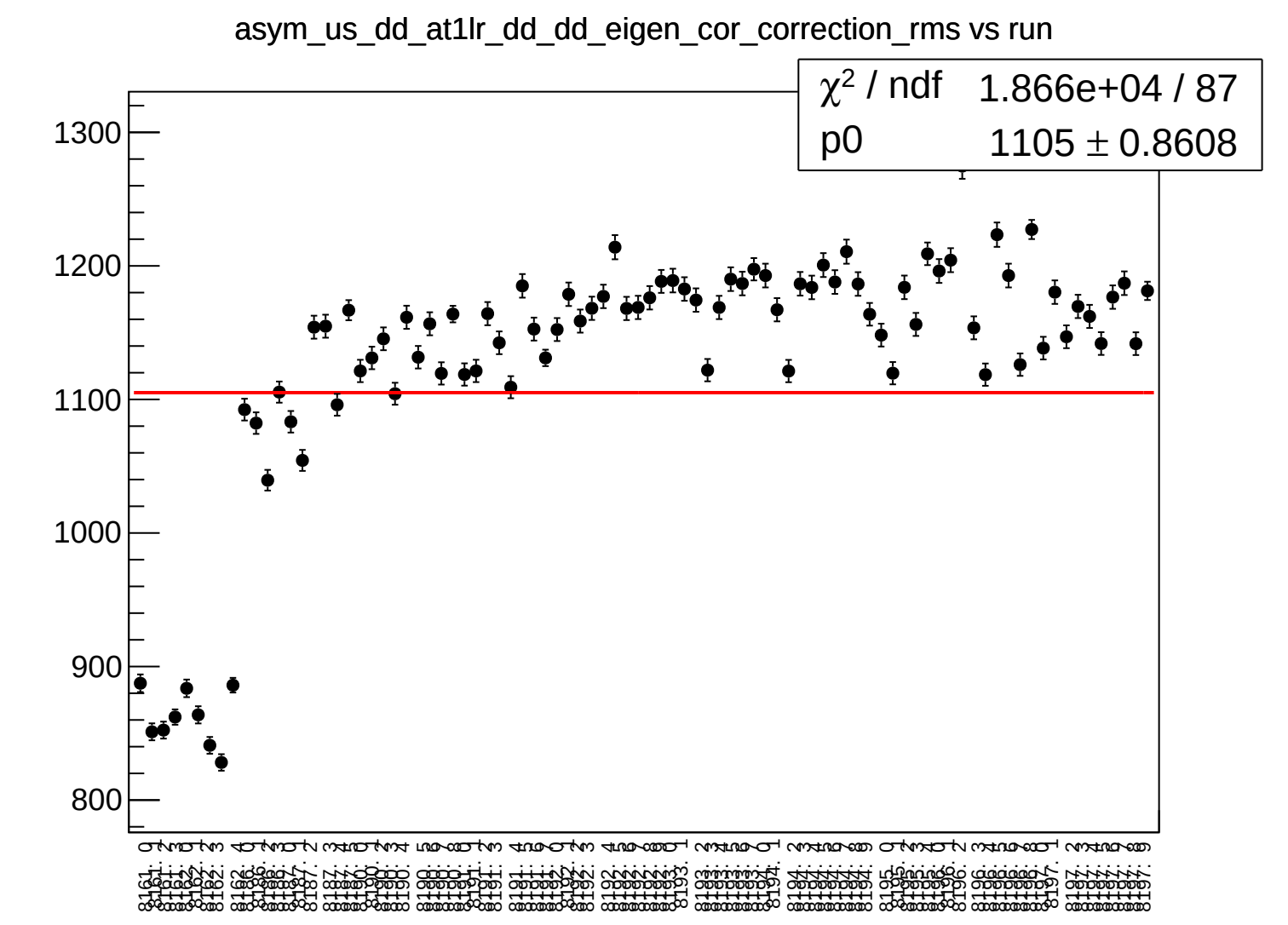

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.866e+04 / 87
p0 1105 ± 0.8608
1300
1200
1100
1000
900
800

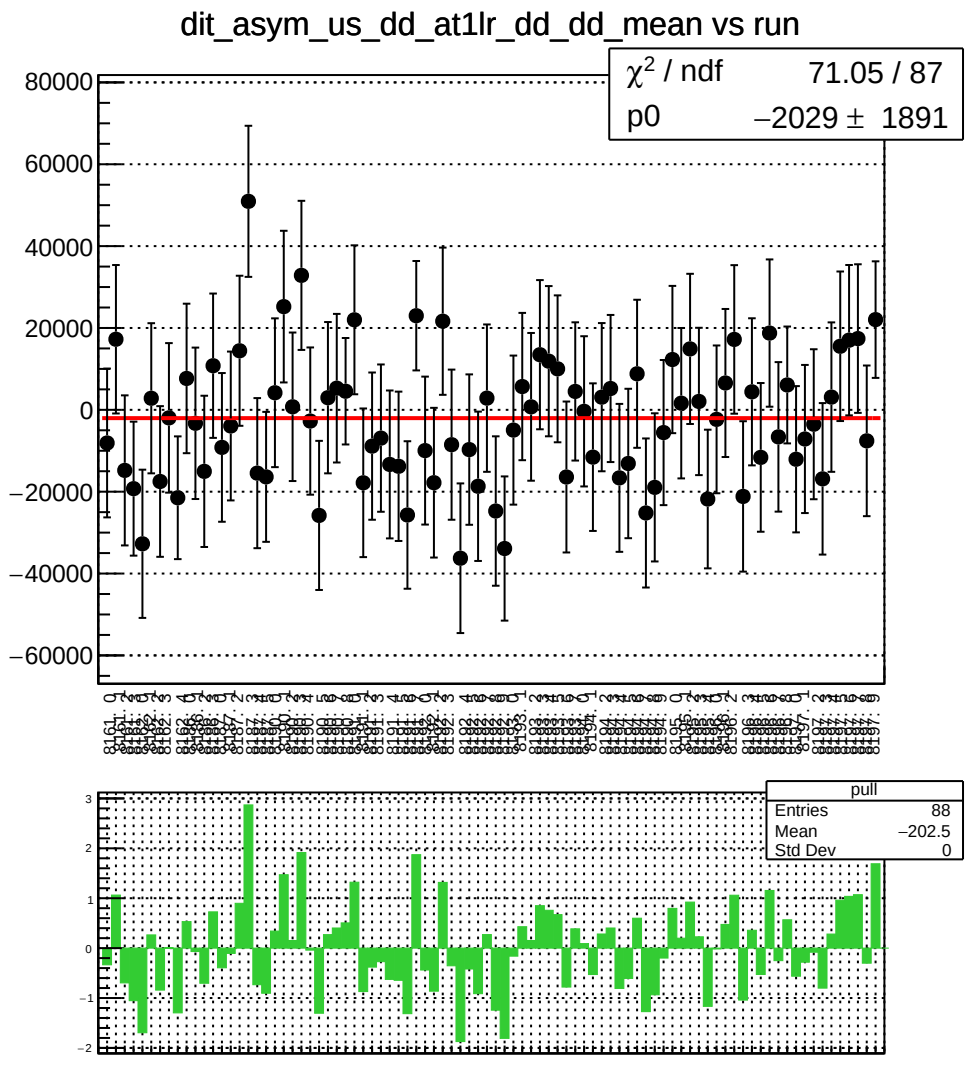

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 72.03 / 87
p0 −2028 ± 1889
pull
Entries 88
Mean −167.4
Std Dev 0
pull1D
Entries 88
Mean −0.01022
Std Dev 0.9047

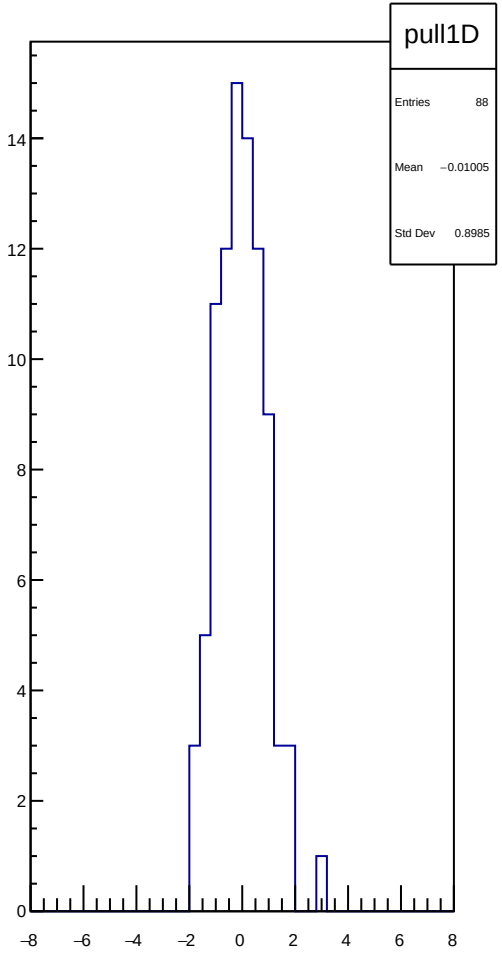

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 108.5 / 87
p0 1725 ± 1.336
1760
1740
1720
1700
1680

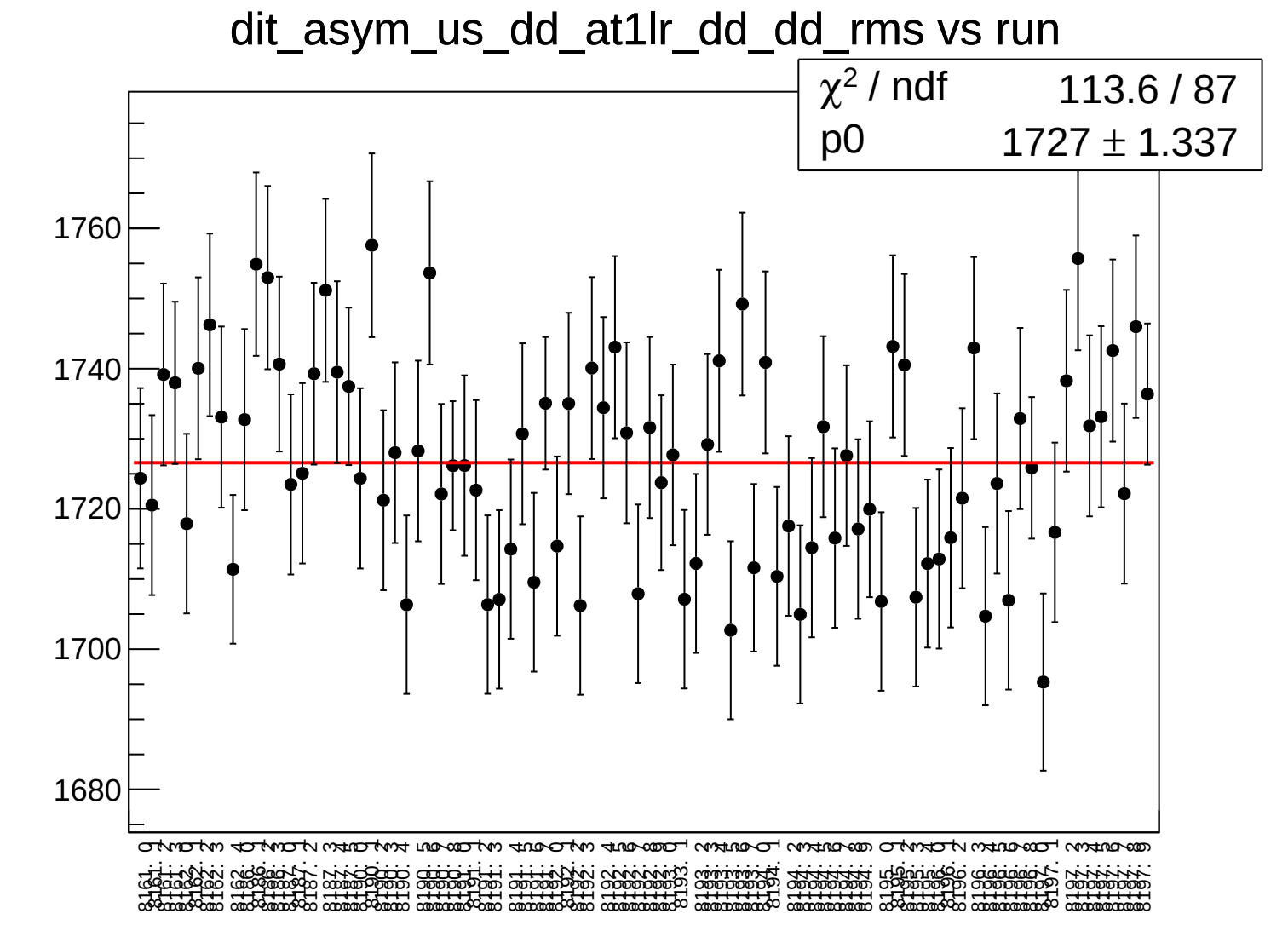

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.52 / 87
p0 −6739 ± 1217
pull
Entries 88
Mean 764.3
Std Dev 0

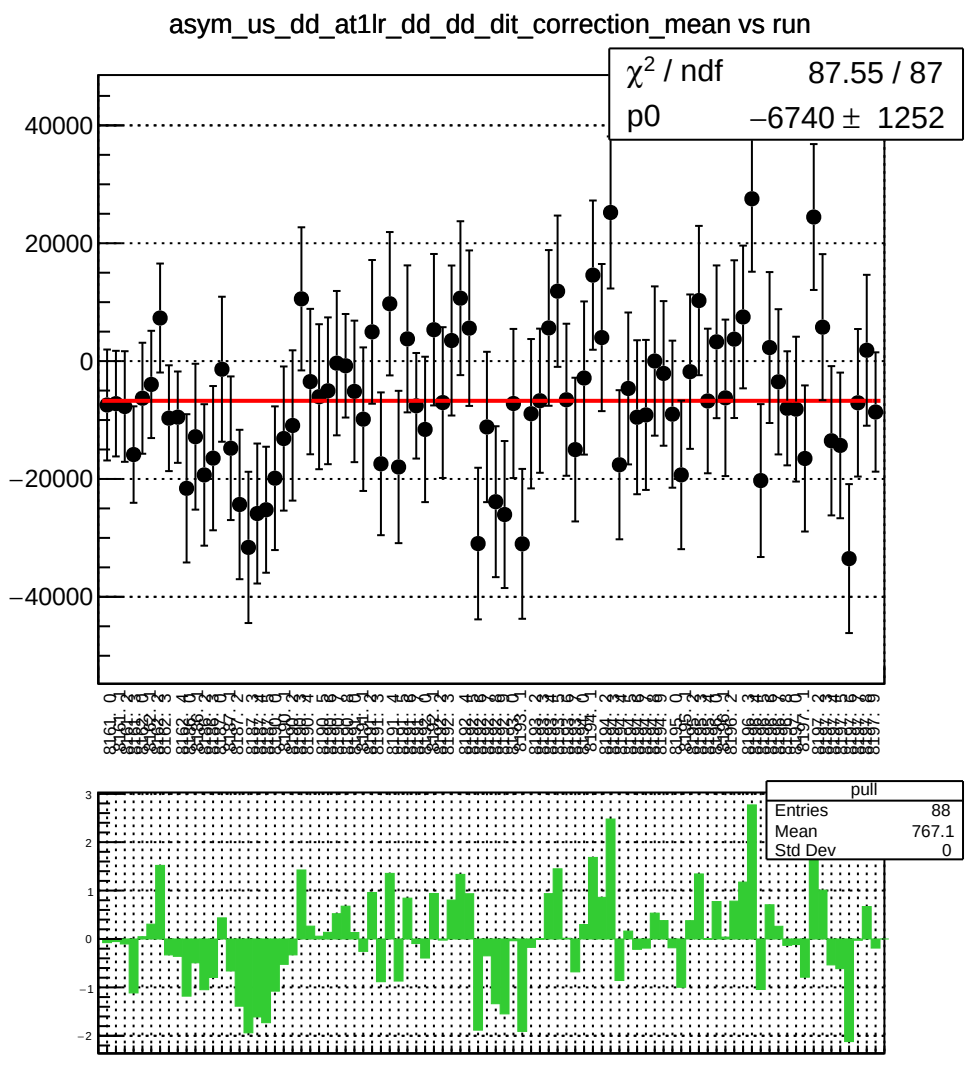

pull1D
Entries 88
Mean 0.007451
Std Dev 0.9972

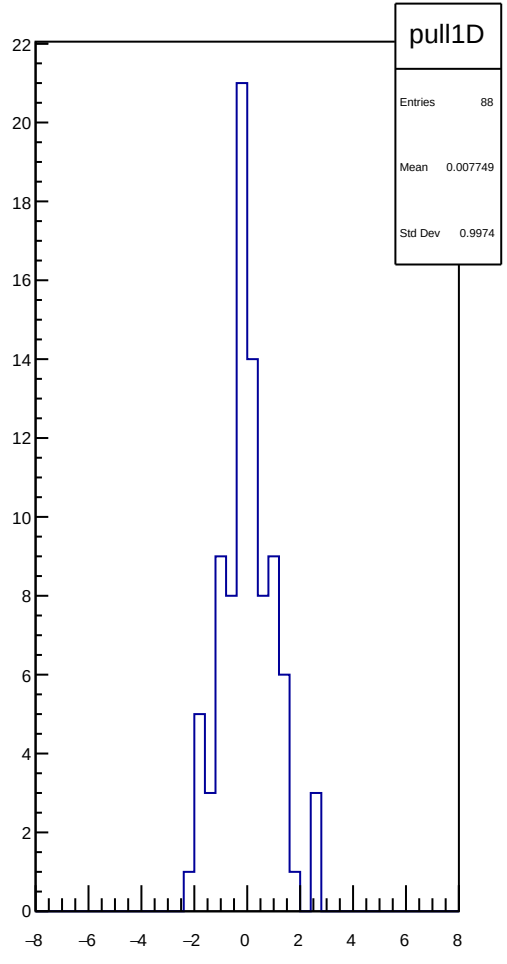

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.866e+04 / 87
p0 1105 ± 0.8608
1300
1200
1100
1000
900
800

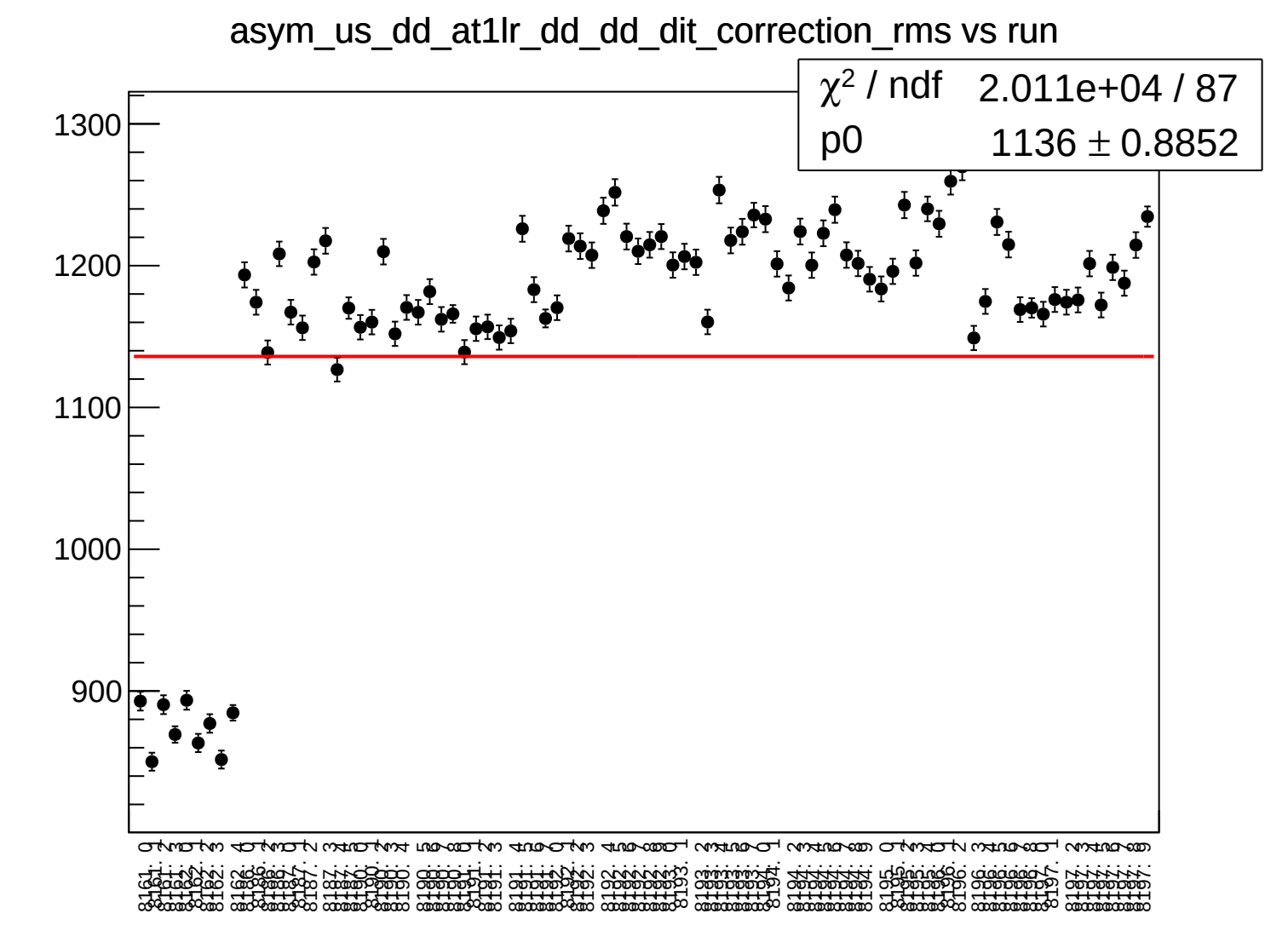

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.05 / 87
p0 −2029 ± 1891
pull
Entries 88
Mean −202.5
Std Dev 0

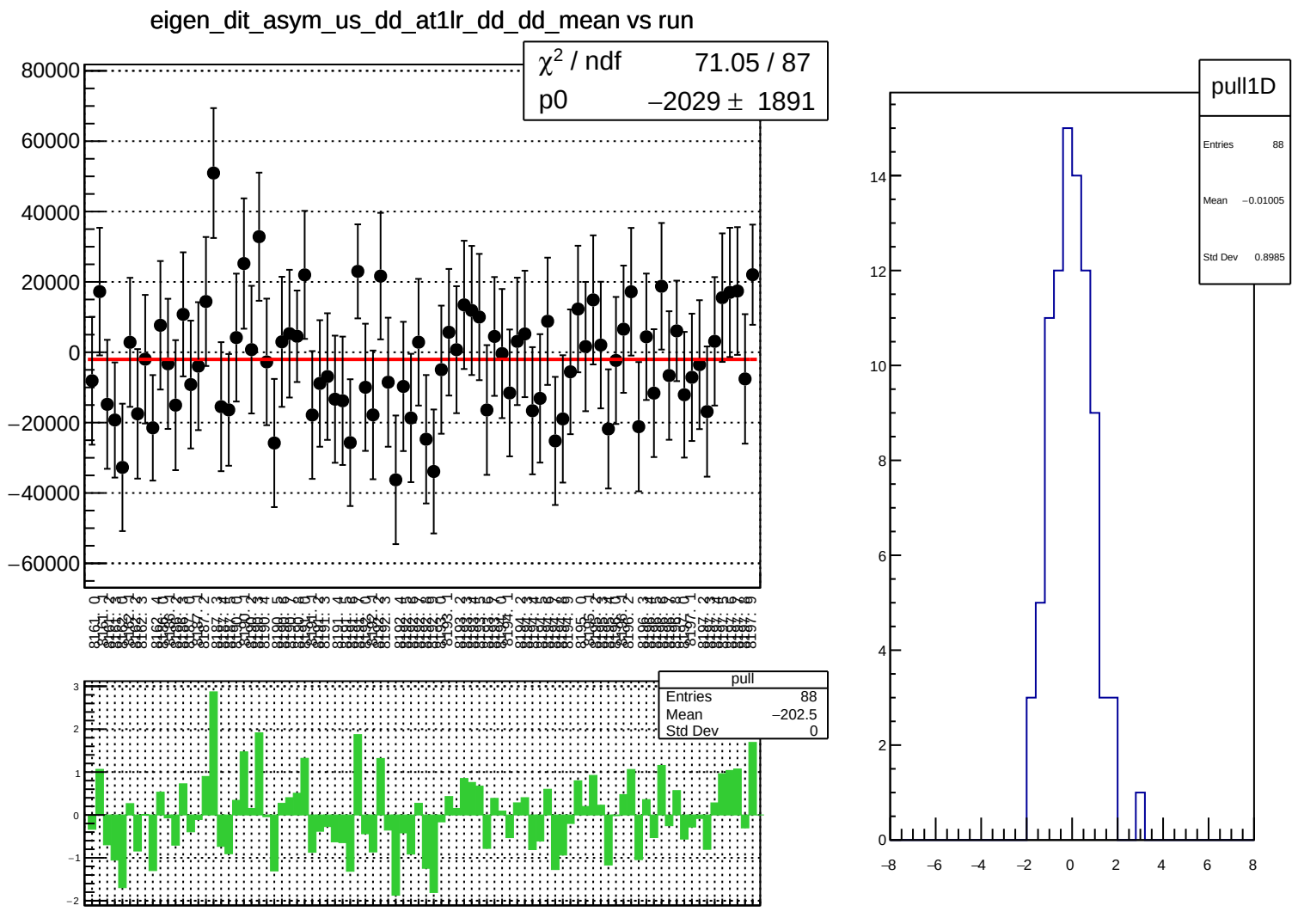

pull1D
Entries 88
Mean −0.01005
Std Dev 0.8985

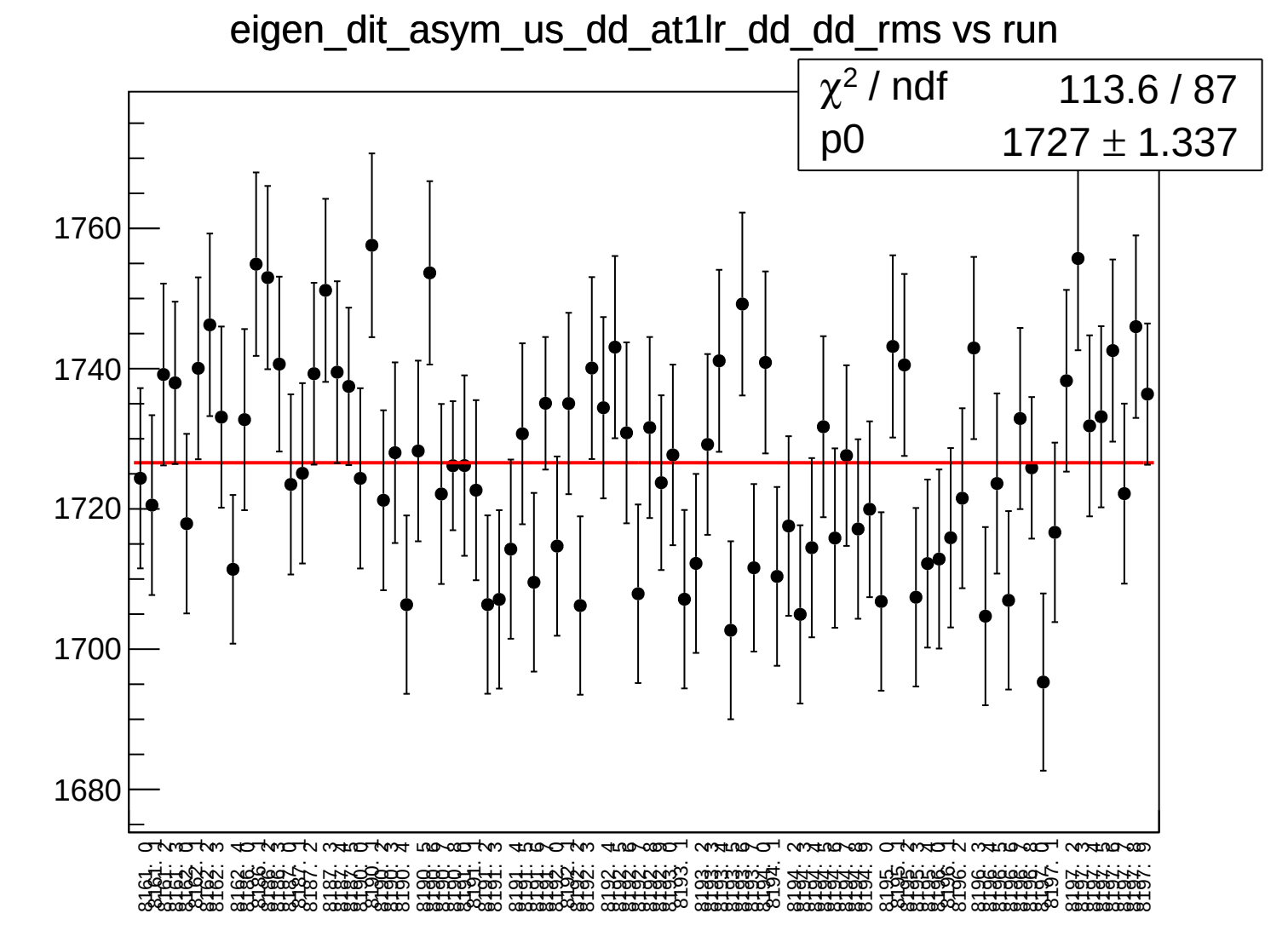

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 113.6 / 87
p0 1727 ± 1.337
1760
1740
1720
1700
1680

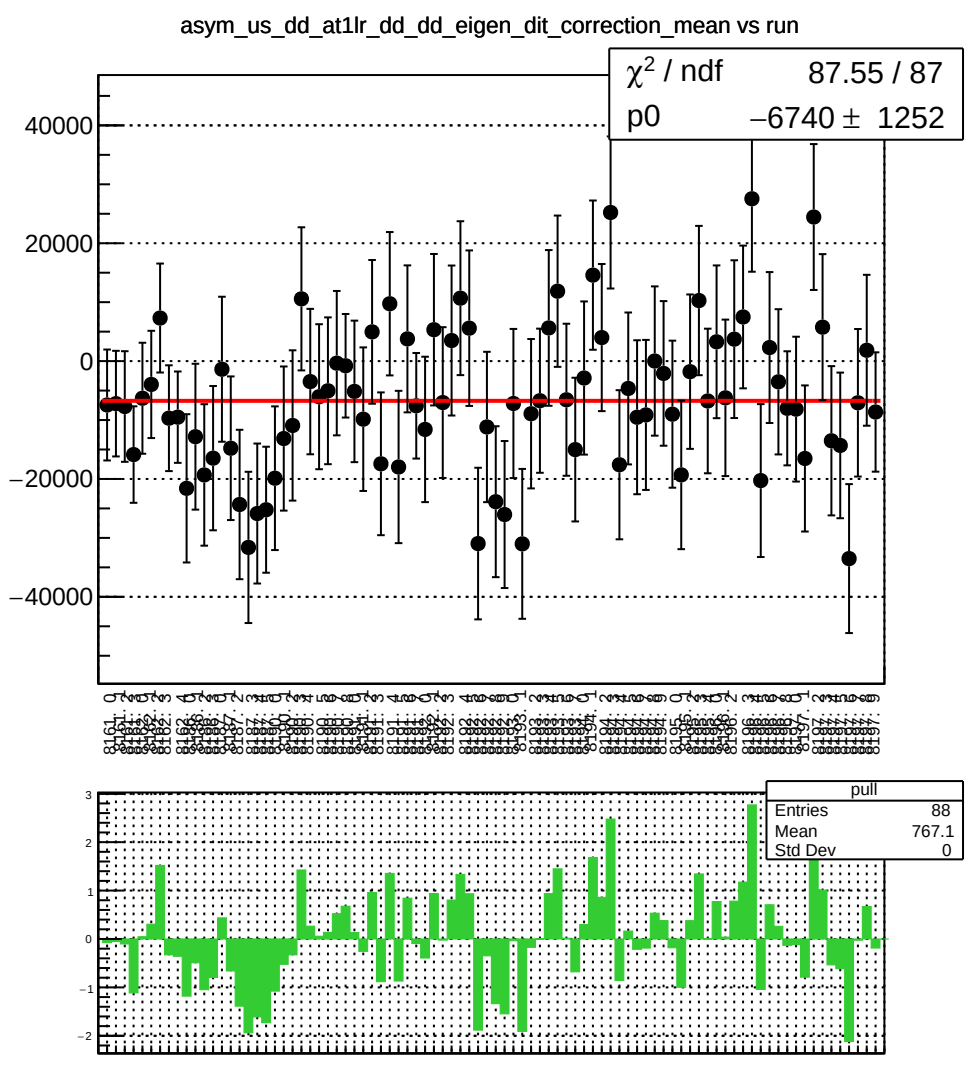

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 87.55 / 87
p0 −6740 ± 1252
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 767.1
Std Dev 0
3
2
1
0
−1
−2

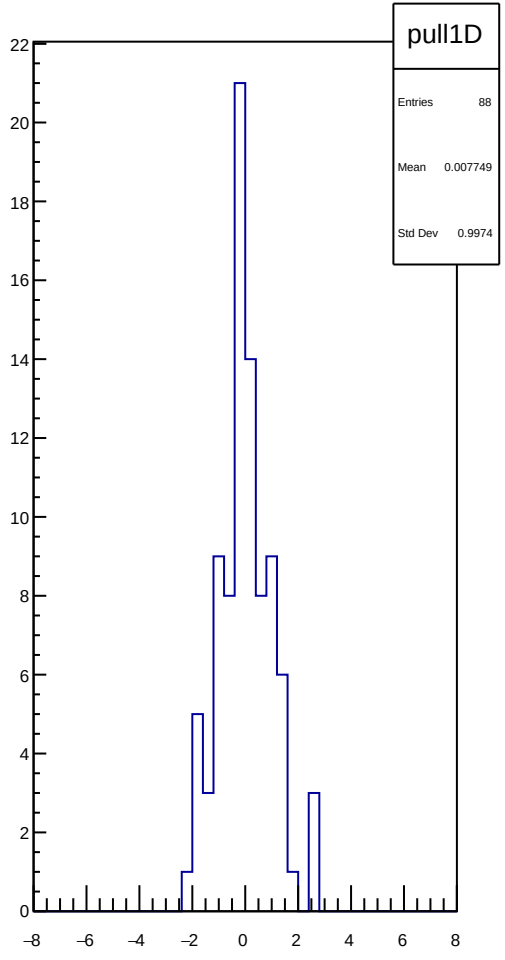

pull1D
Entries 88
Mean 0.007749
Std Dev 0.9974
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

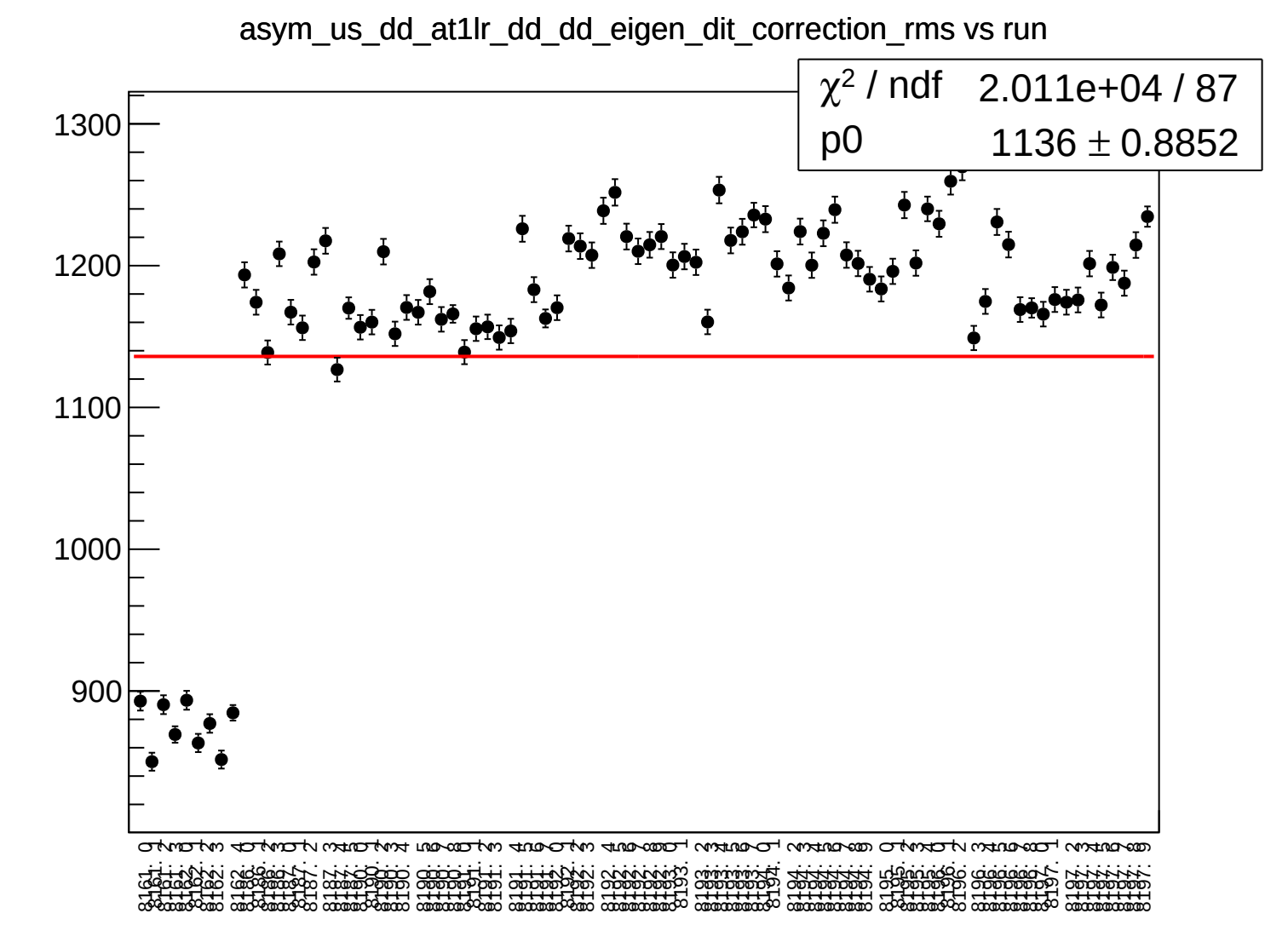

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.011e+04 / 87
p0 1136 ± 0.8852
1300
1200
1100
1000
900

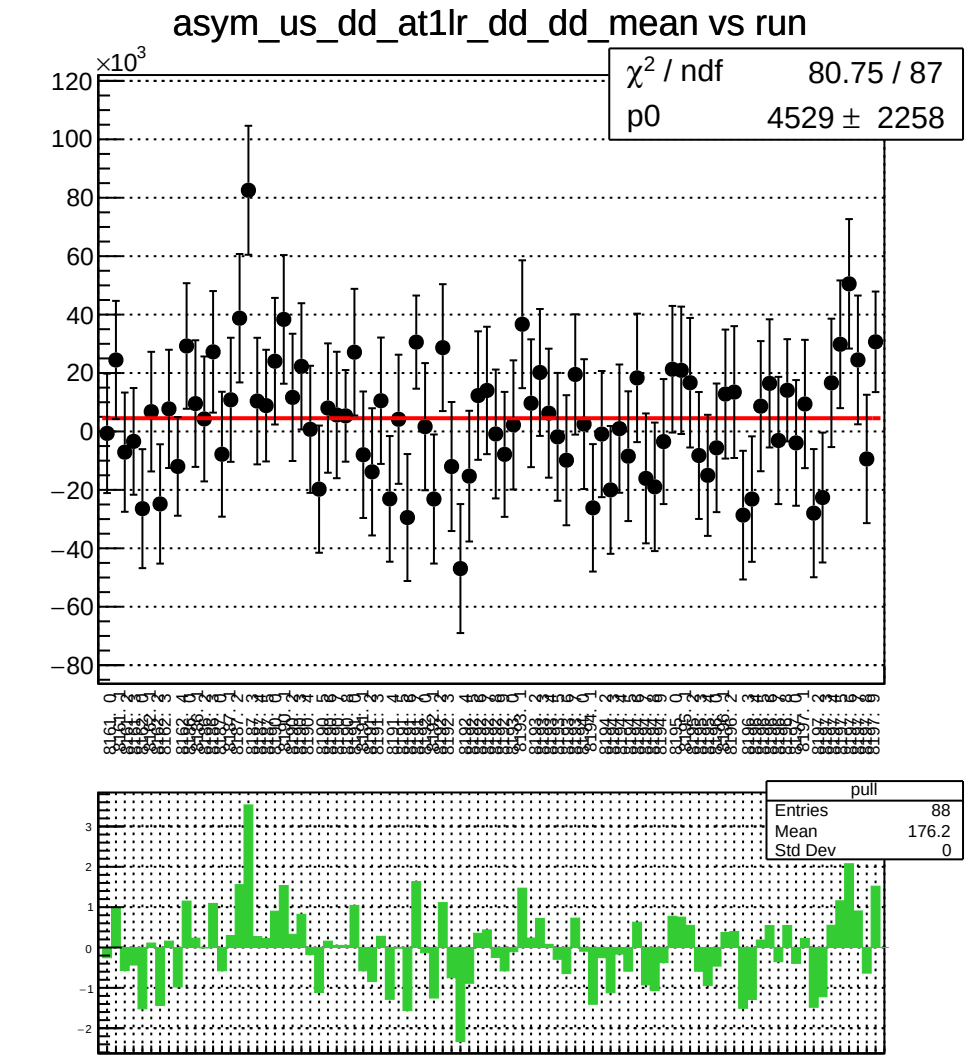

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.05 / 87
p0 −2029 ± 1891
pull
Entries 88
Mean −202.5
Std Dev 0
pull1D
Entries 88
Mean −0.01005
Std Dev 0.8985

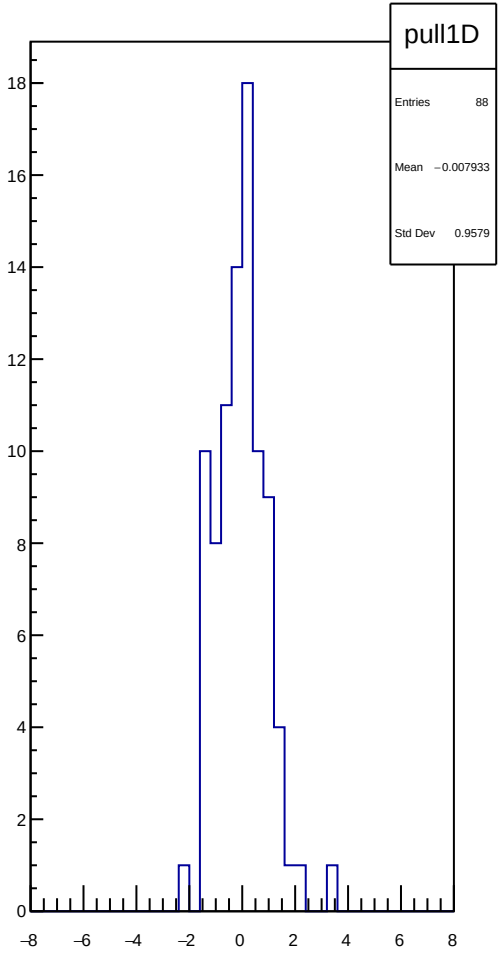

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 113.6 / 87
p0 1727 ± 1.337
1760
1740
1720
1700
1680

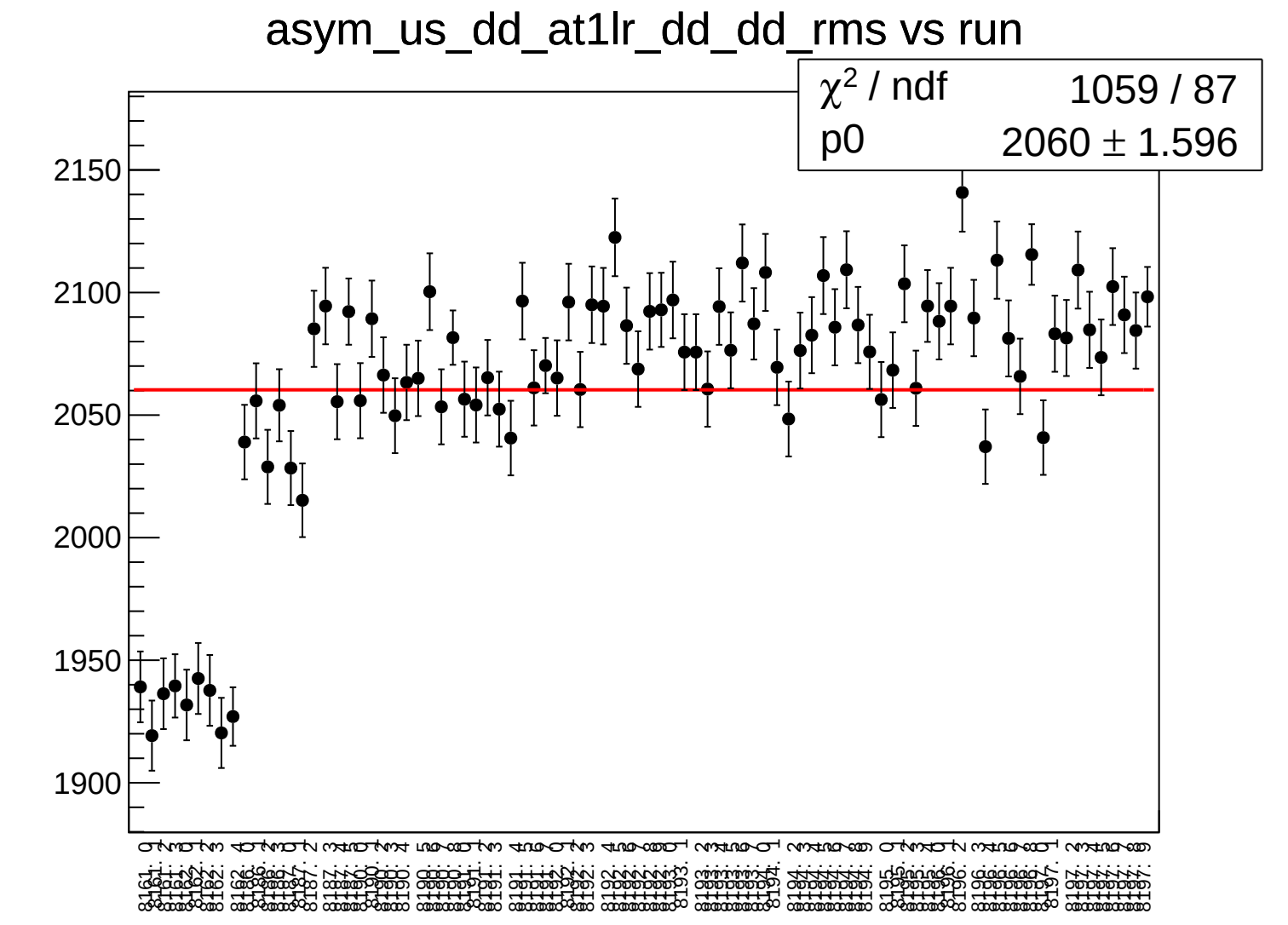

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.55 / 87
p0 −6740 ± 1252
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 767.1
Std Dev 0
3
2
1
0
−1
−2

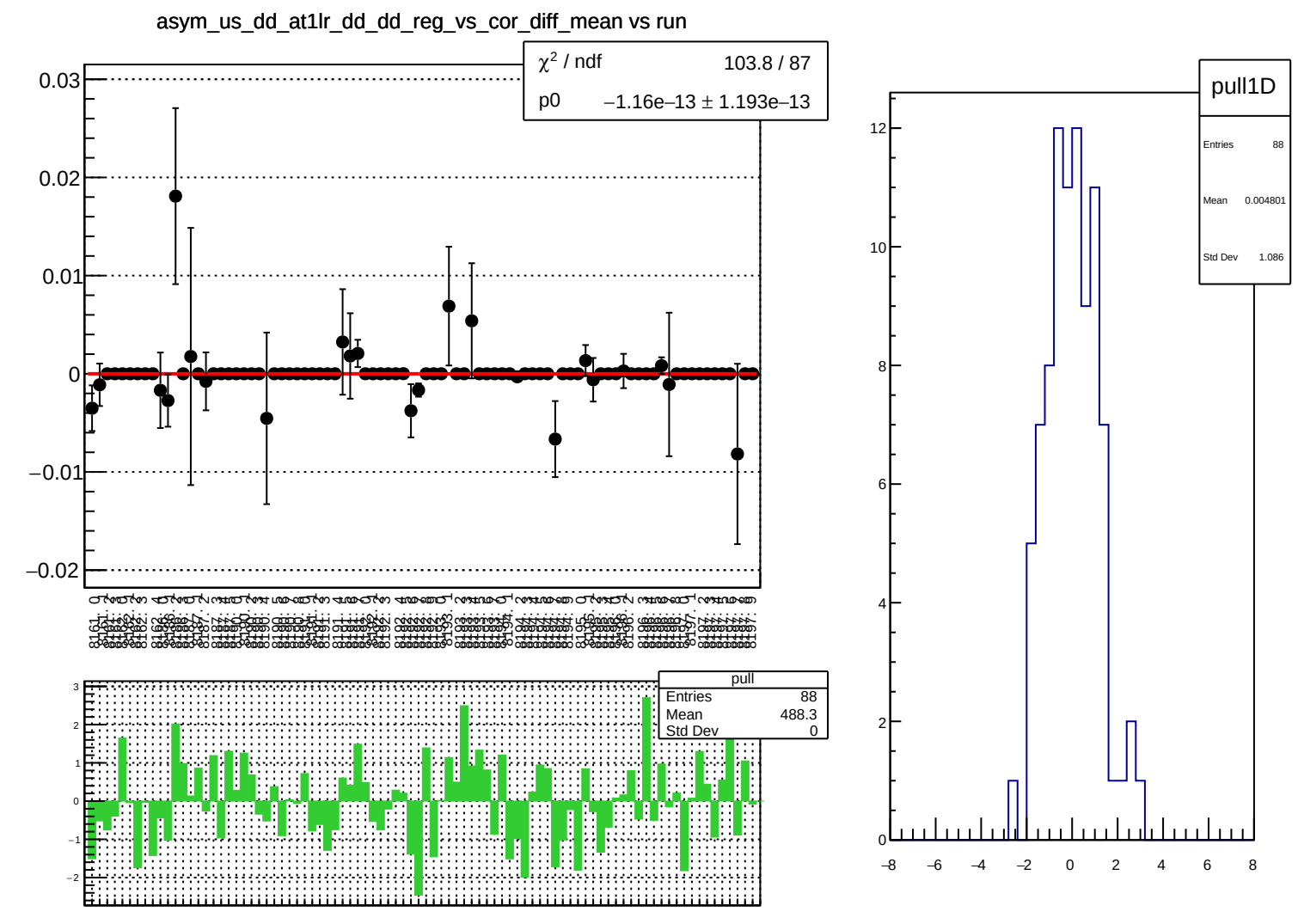

pull1D
Entries 88
Mean 0.007749
Std Dev 0.9974
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

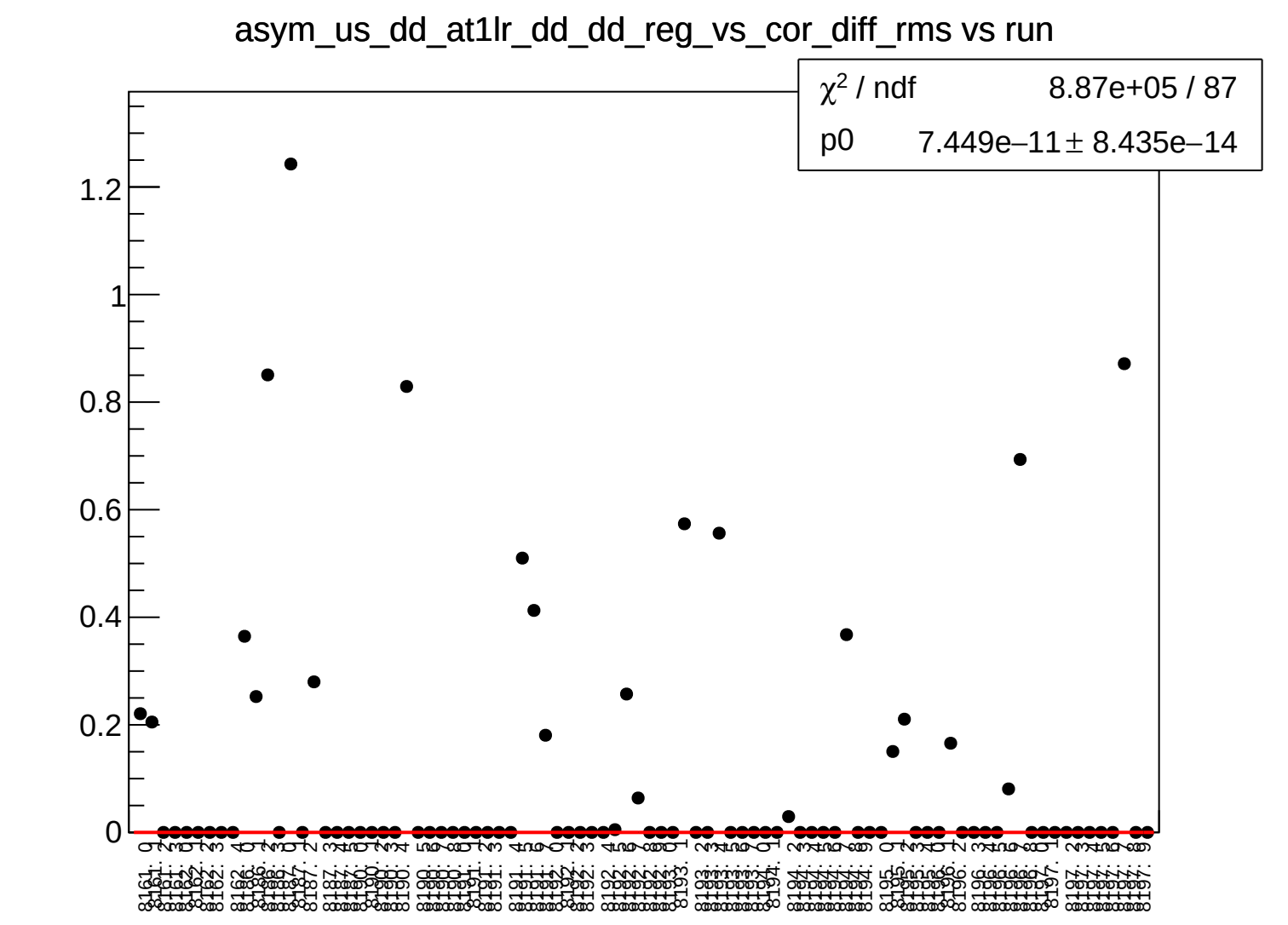

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.011e+04 / 87
p0 1136 ± 0.8852
1300
1200
1100
1000
900

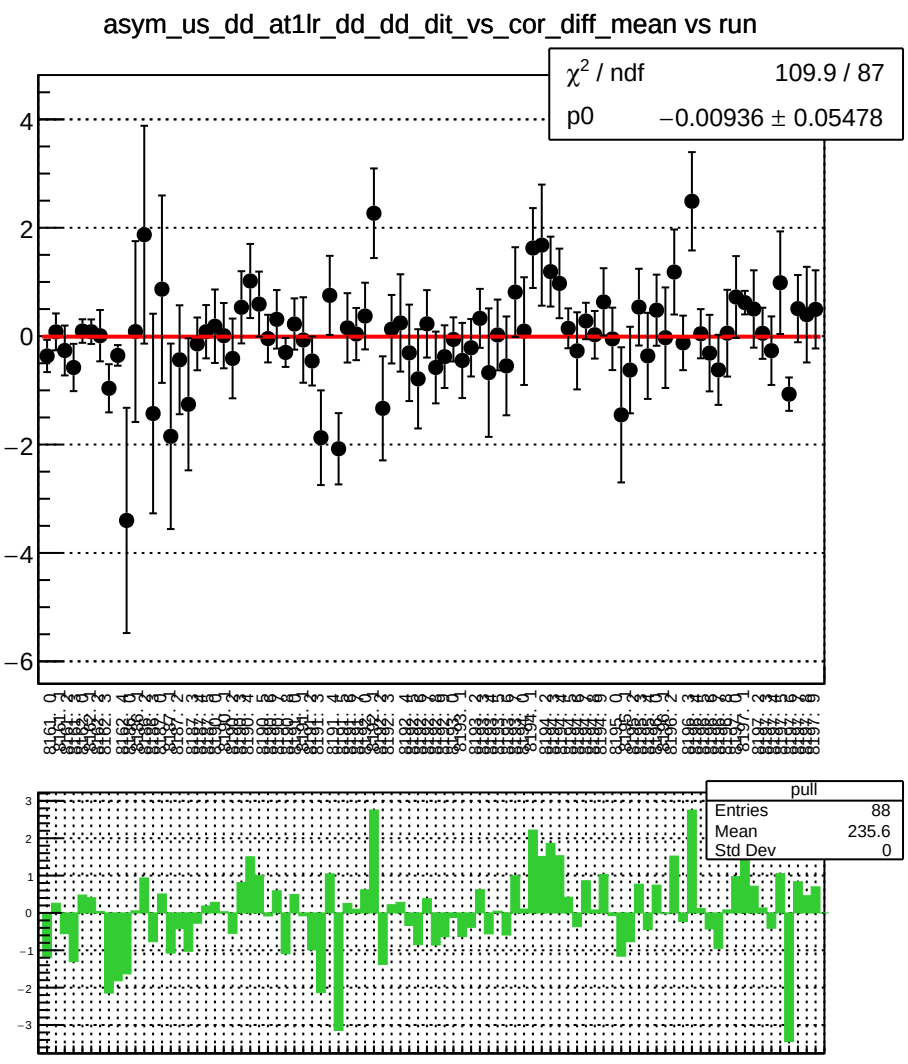

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 80.75 / 87
p0 4529 ± 2258
×10³
pull
Entries 88
Mean 176.2
Std Dev 0

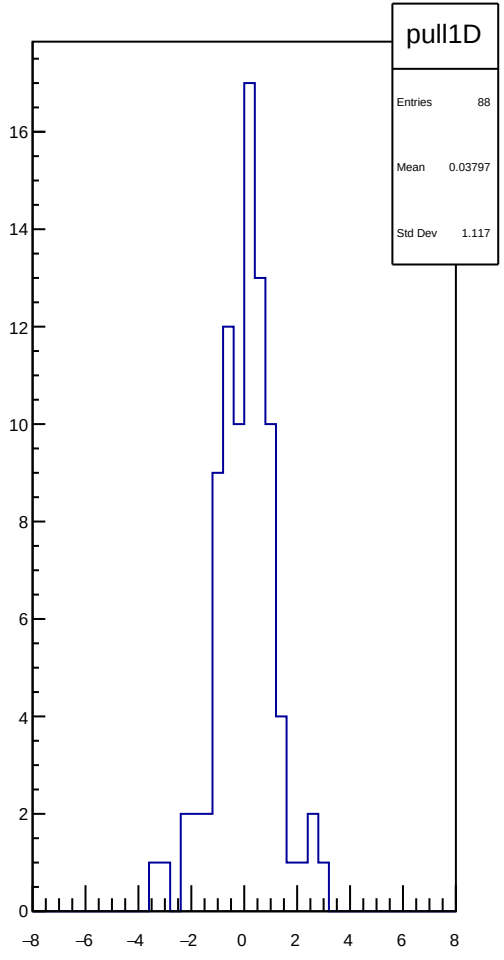

pull1D
Entries 88
Mean −0.007933
Std Dev 0.9579

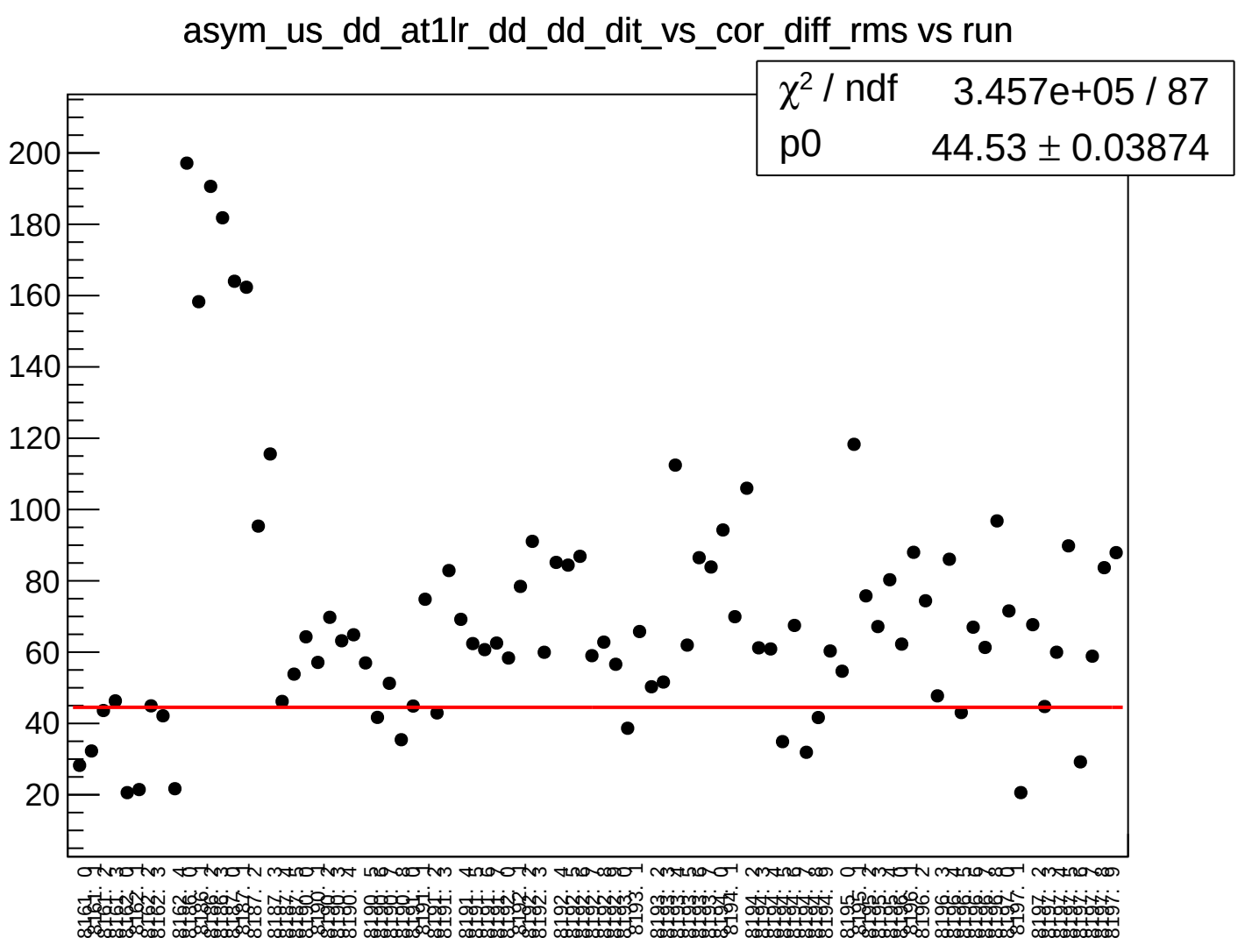

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1059 / 87
p0 2060 ± 1.596
2150
2100
2050
2000
1950
1900

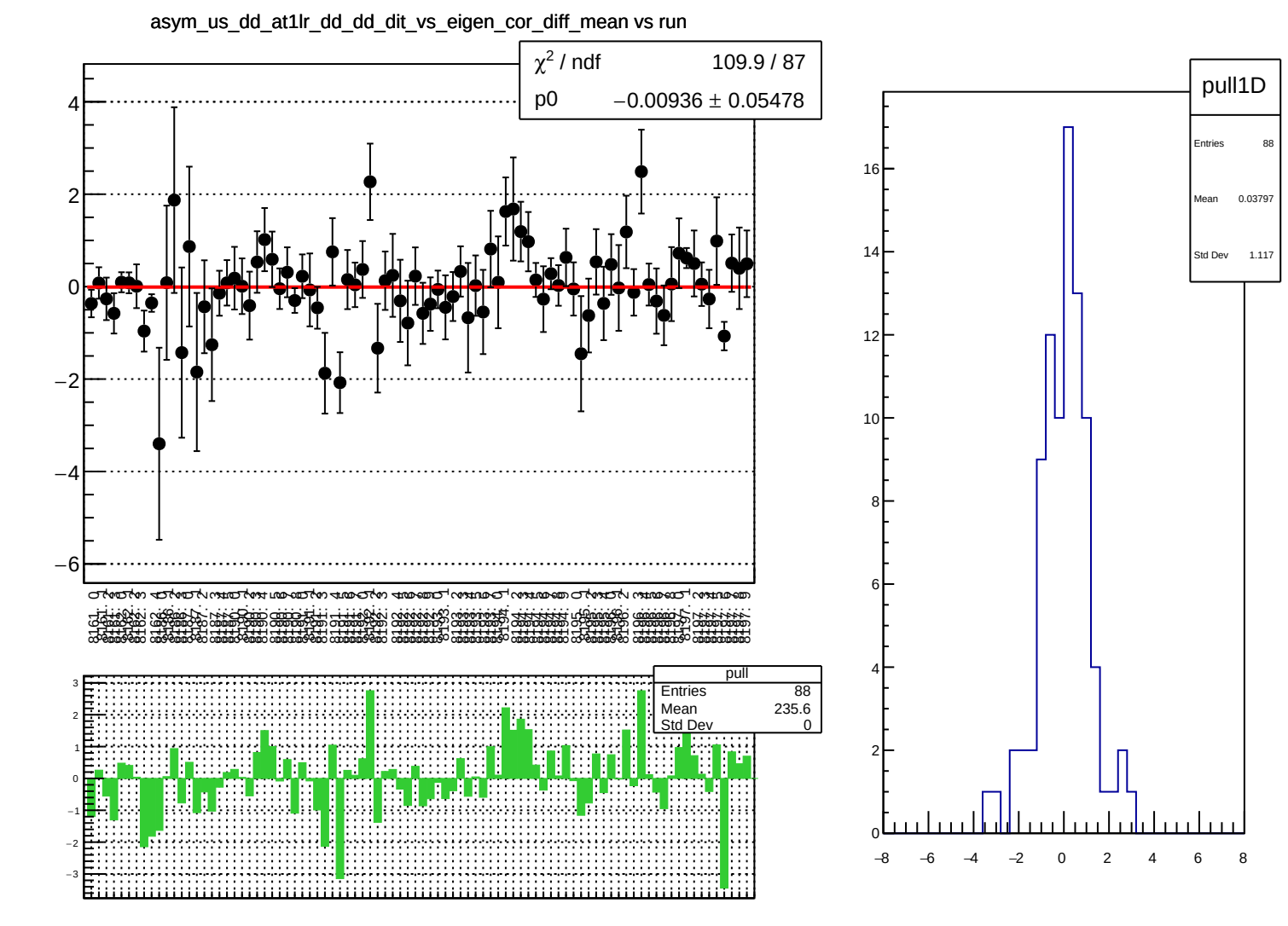

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 87
p0 −1.16e−13 ± 1.193e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 488.3
Std Dev 0
pull1D
Entries 88
Mean 0.004801
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

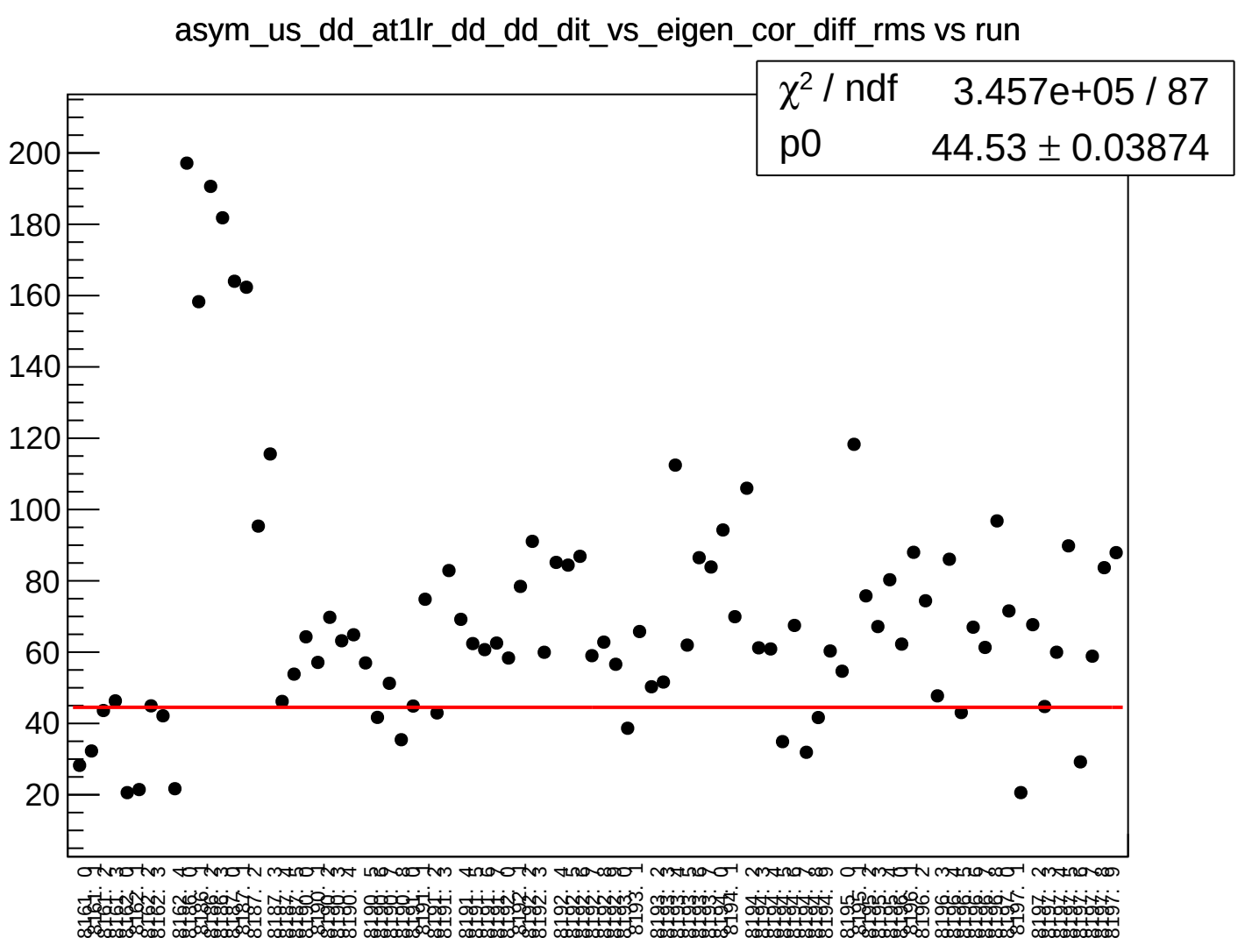

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.87e+05 / 87
p0 7.449e−11 ± 8.435e−14
1.2
1
0.8
0.6
0.4
0.2
0

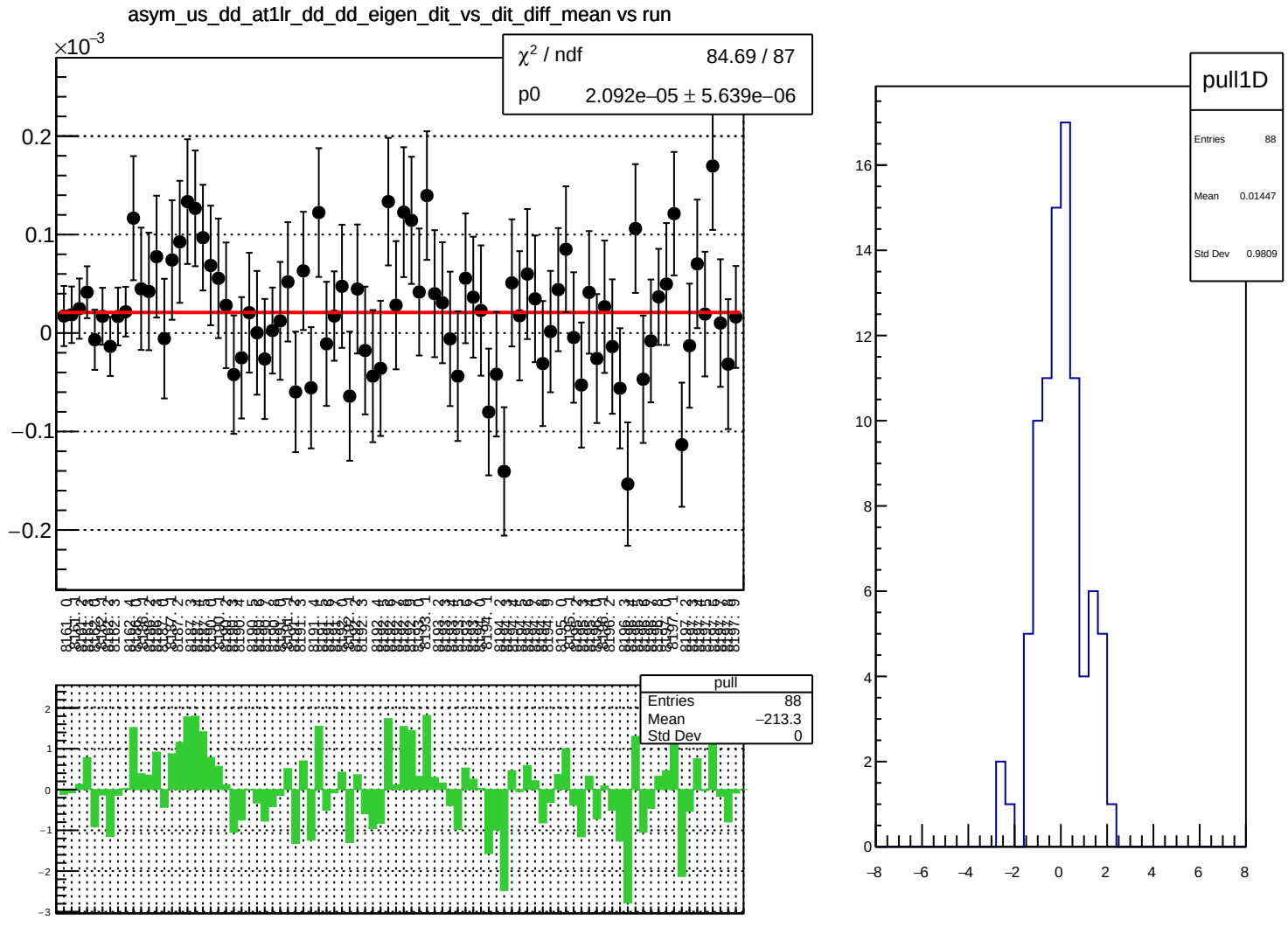

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 87
p0 −0.00936 ± 0.05478
pull
Entries 88
Mean 235.6
Std Dev 0

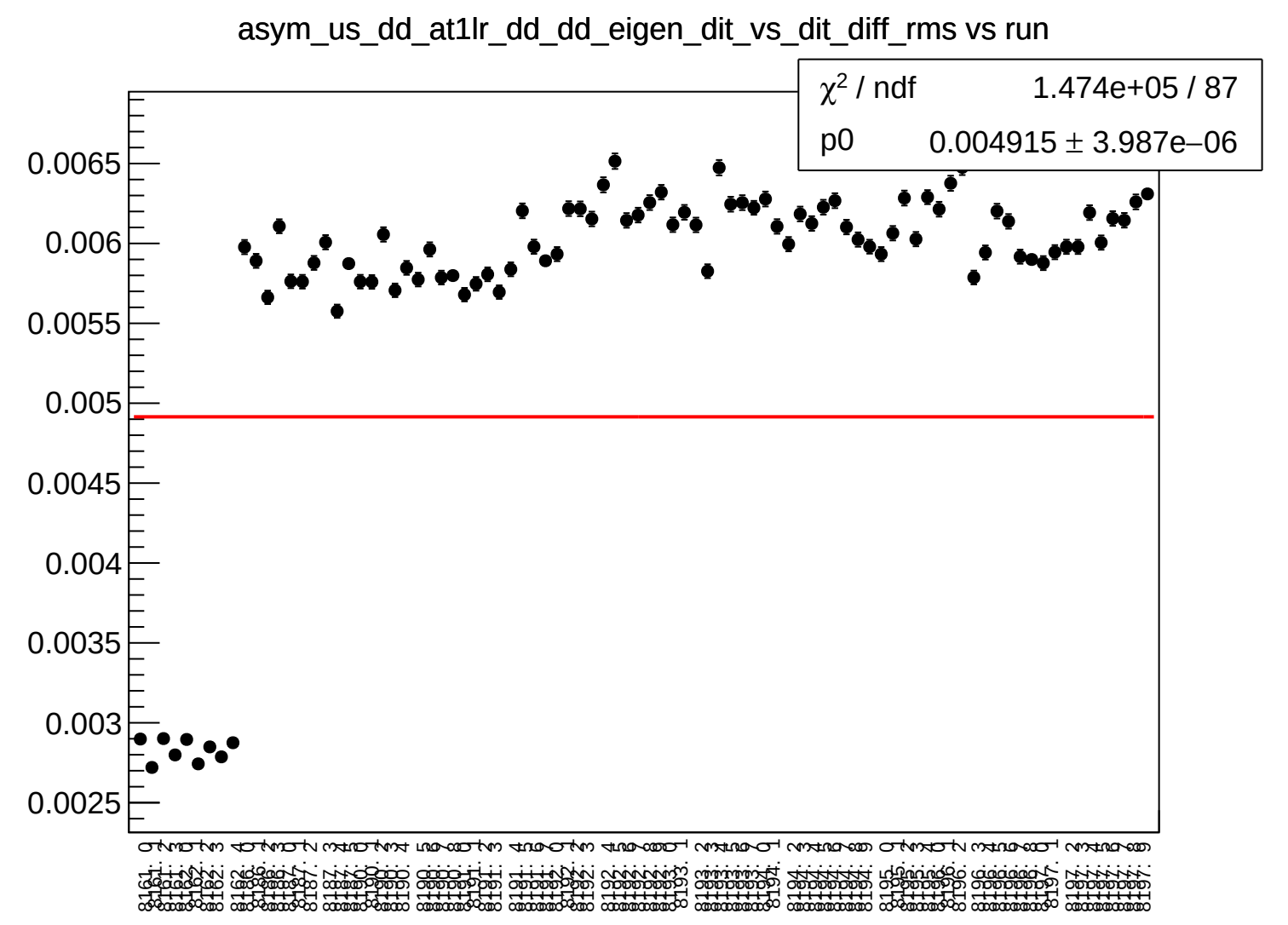

pull1D
Entries 88
Mean 0.03797
Std Dev 1.117

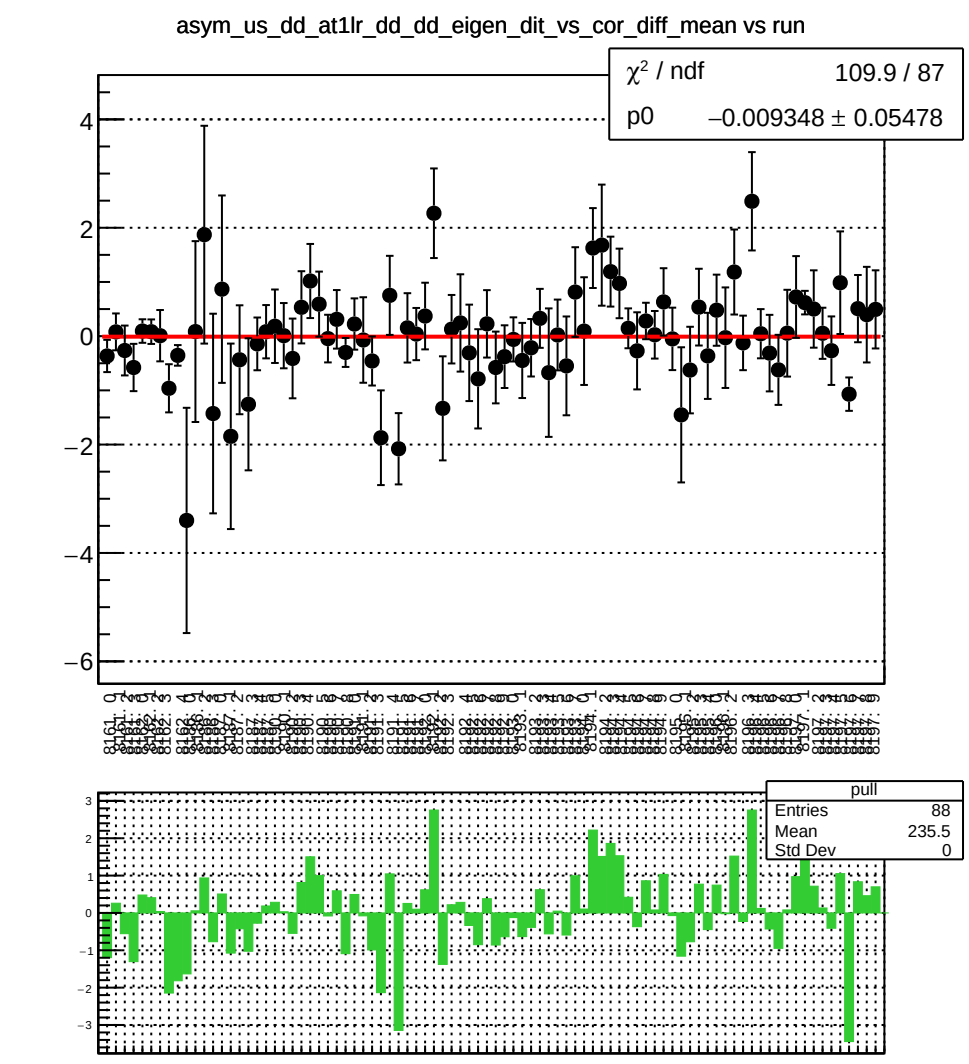

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.457e+05 / 87
p0 44.53 ± 0.03874
200
180
160
140
120
100
80
60
40
20

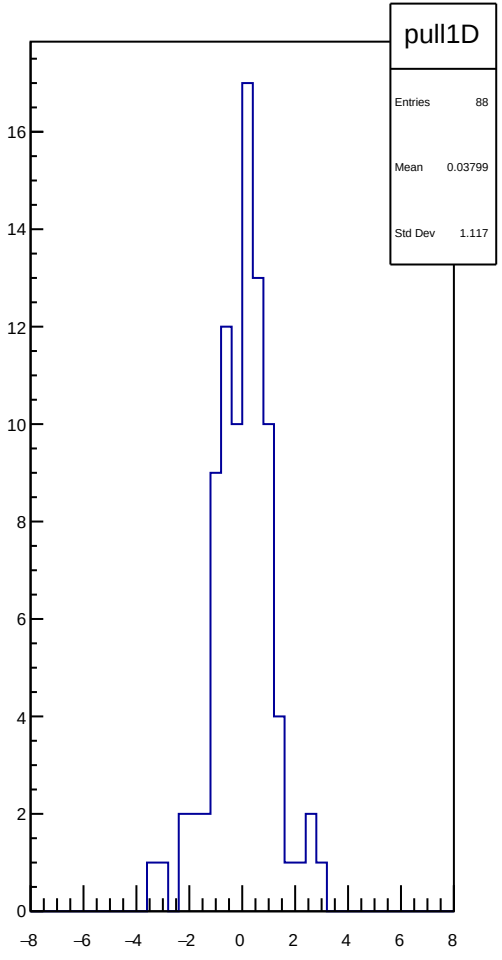

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.9 / 87
p0 −0.00936 ± 0.05478
pull
Entries 88
Mean 235.6
Std Dev 0
pull1D
Entries 88
Mean 0.03797
Std Dev 1.117

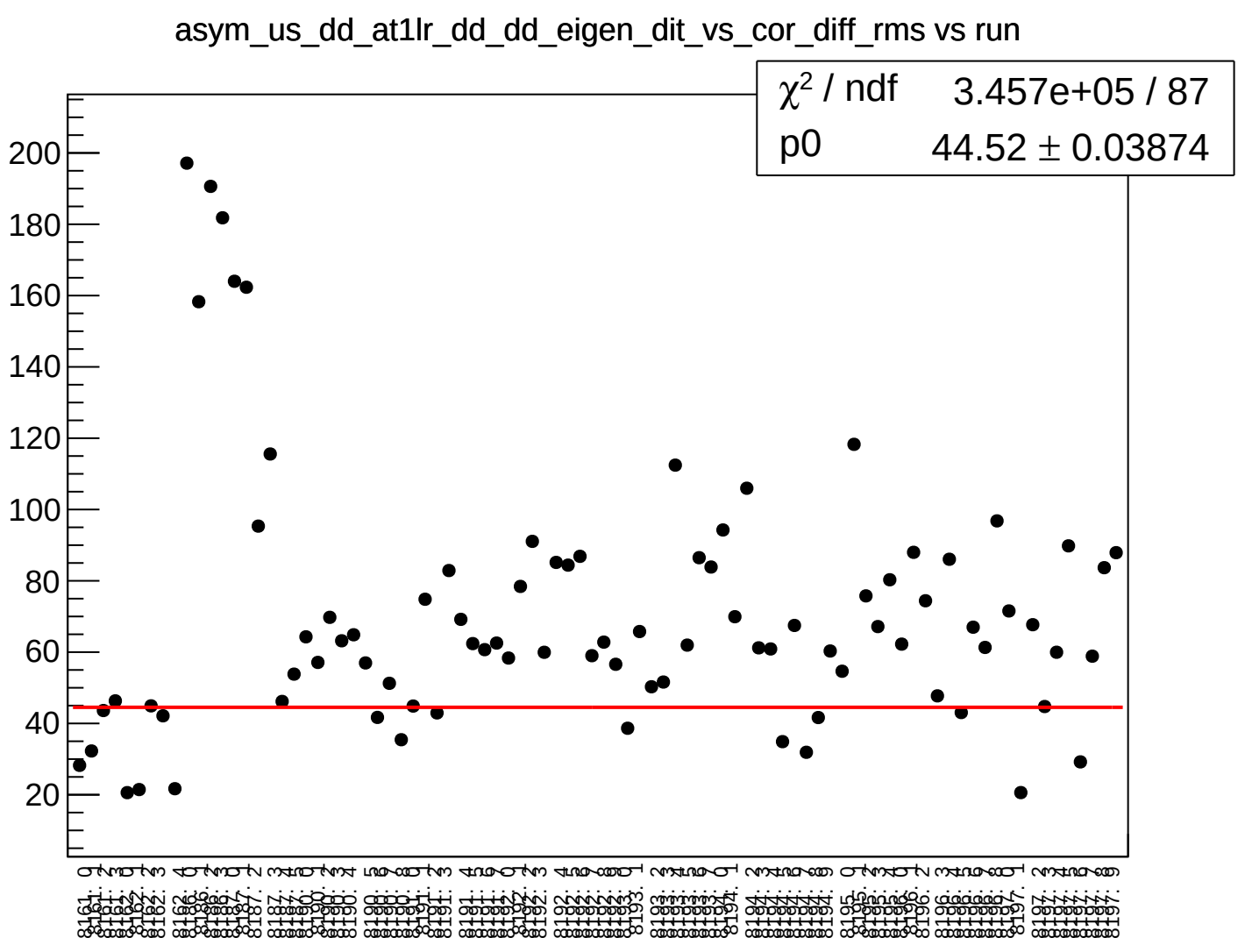

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.457e+05 / 87
p0 44.53 ± 0.03874
200
180
160
140
120
100
80
60
40
20

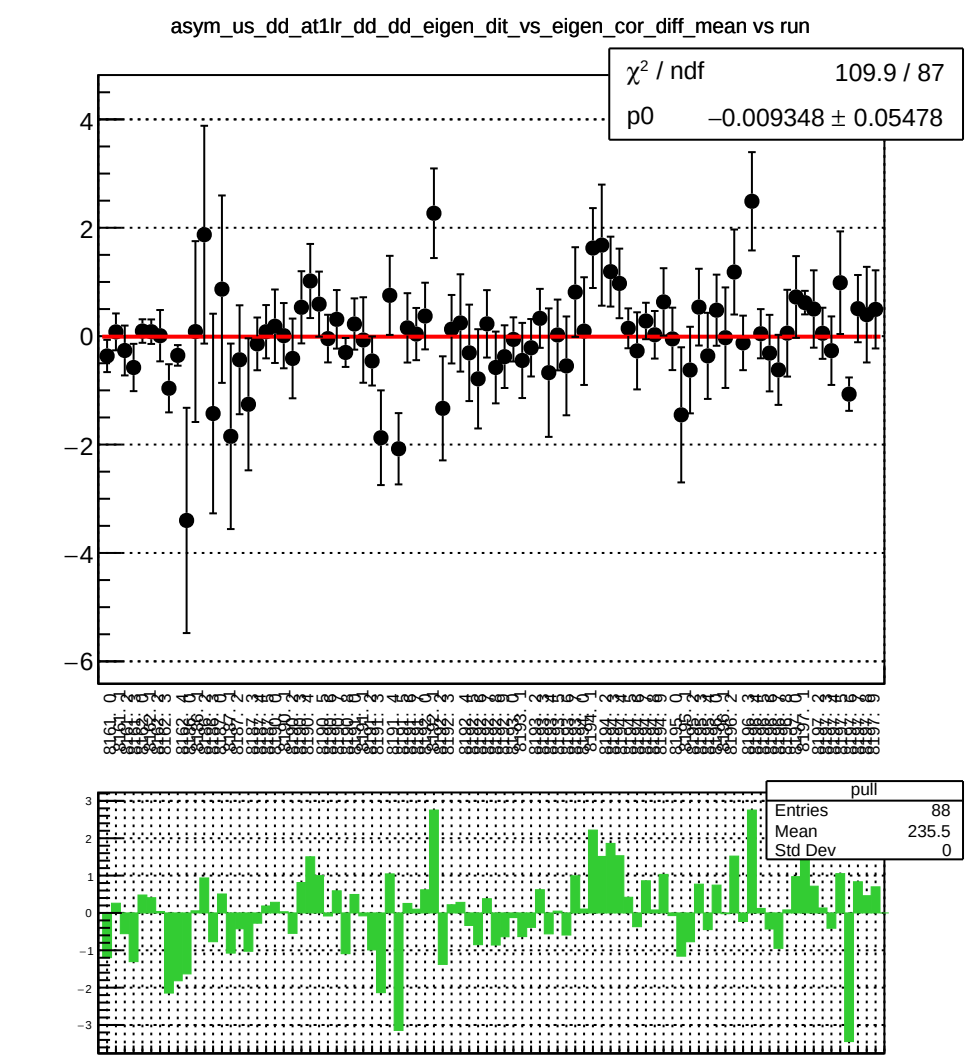

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.69 / 87
p0 2.092e−05 ± 5.639e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −213.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01447
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

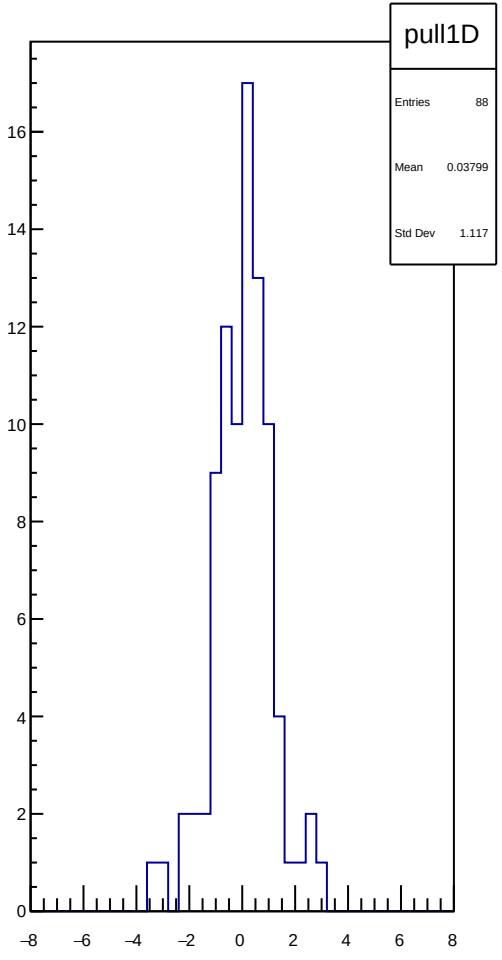

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.474e+05 / 87
p0 0.004915 ± 3.987e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

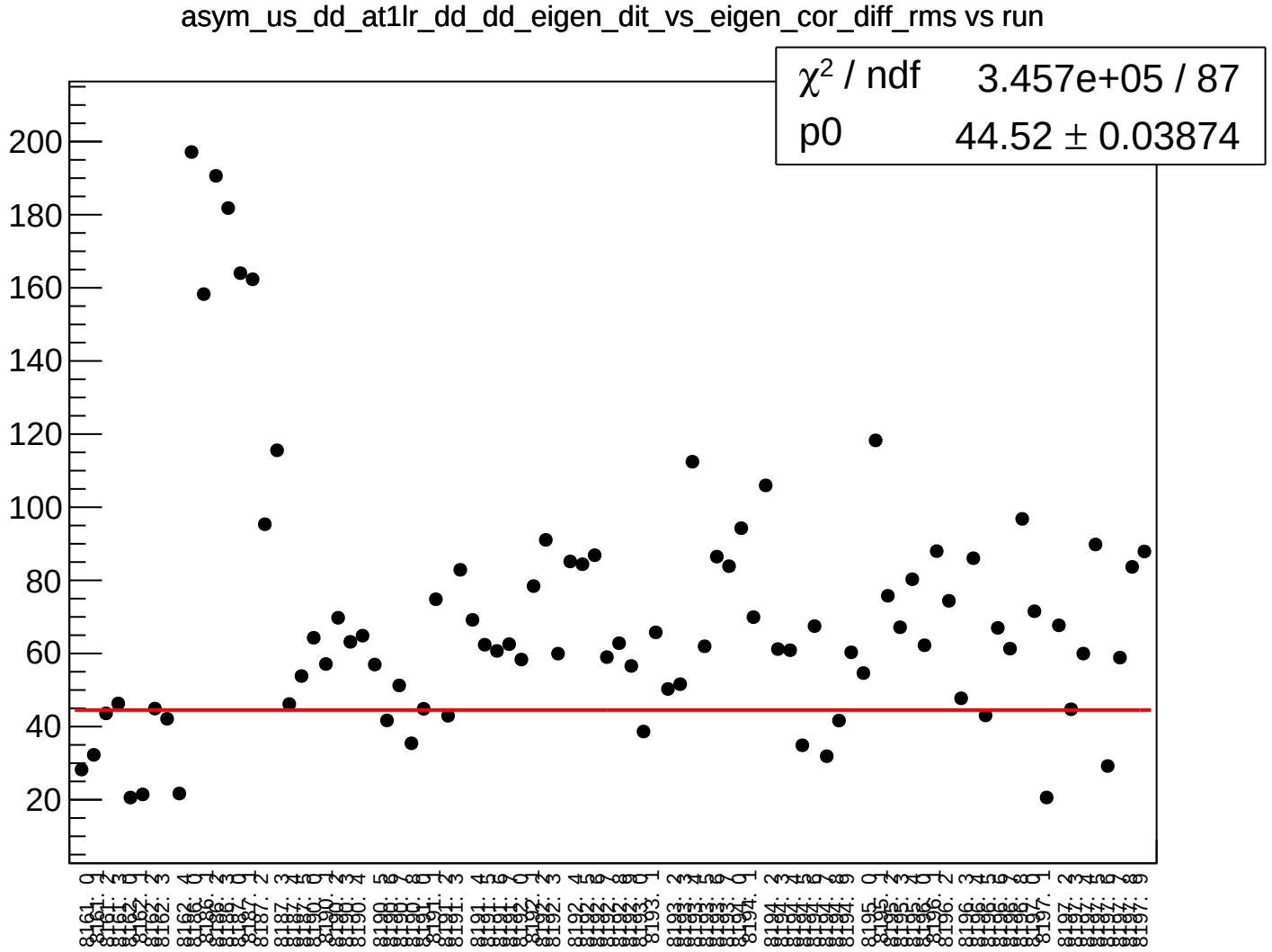

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 87
p0 −0.009348 ± 0.05478
pull
Entries 88
Mean 235.5
Std Dev 0

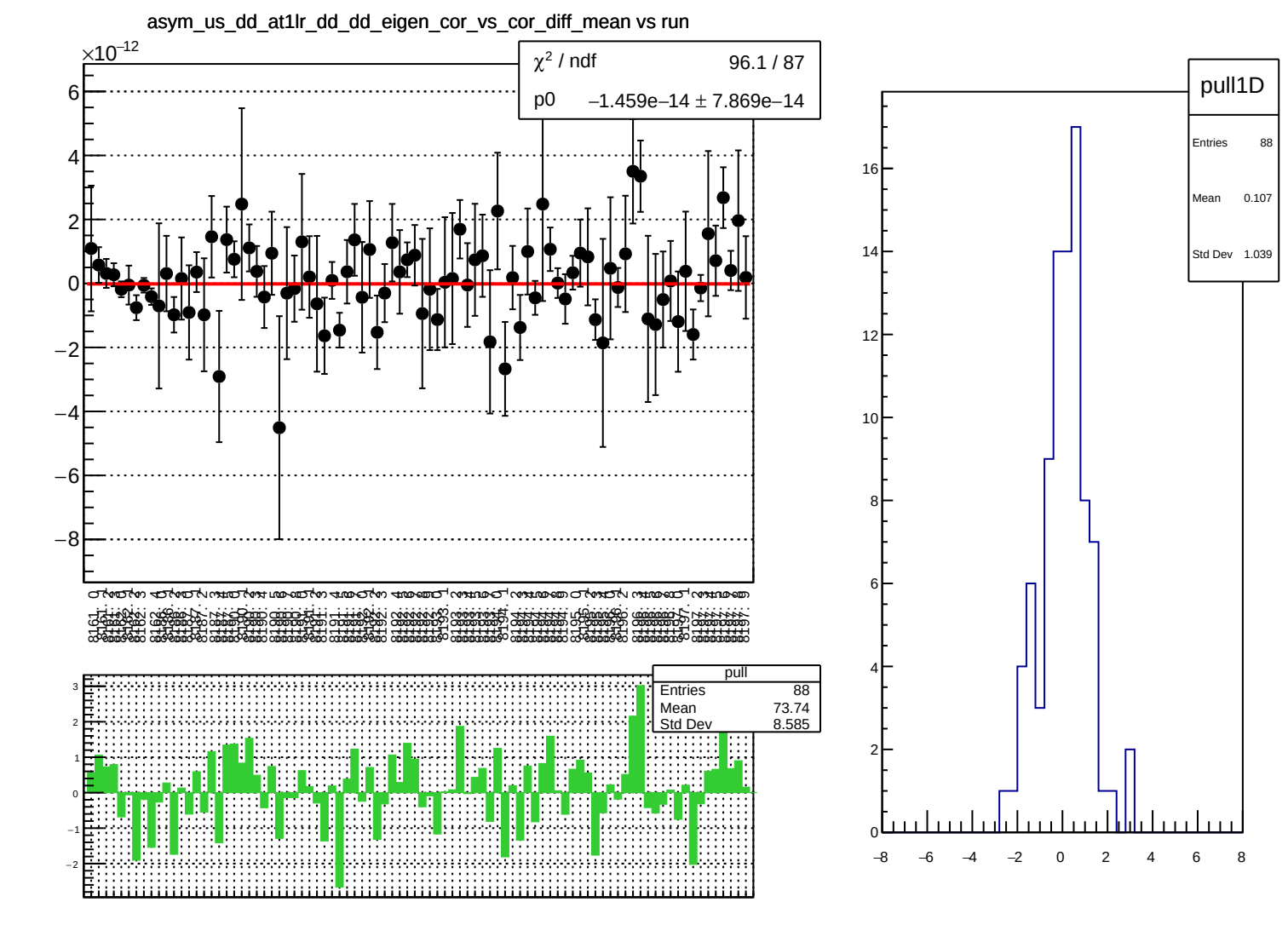

pull1D
Entries 88
Mean 0.03799
Std Dev 1.117

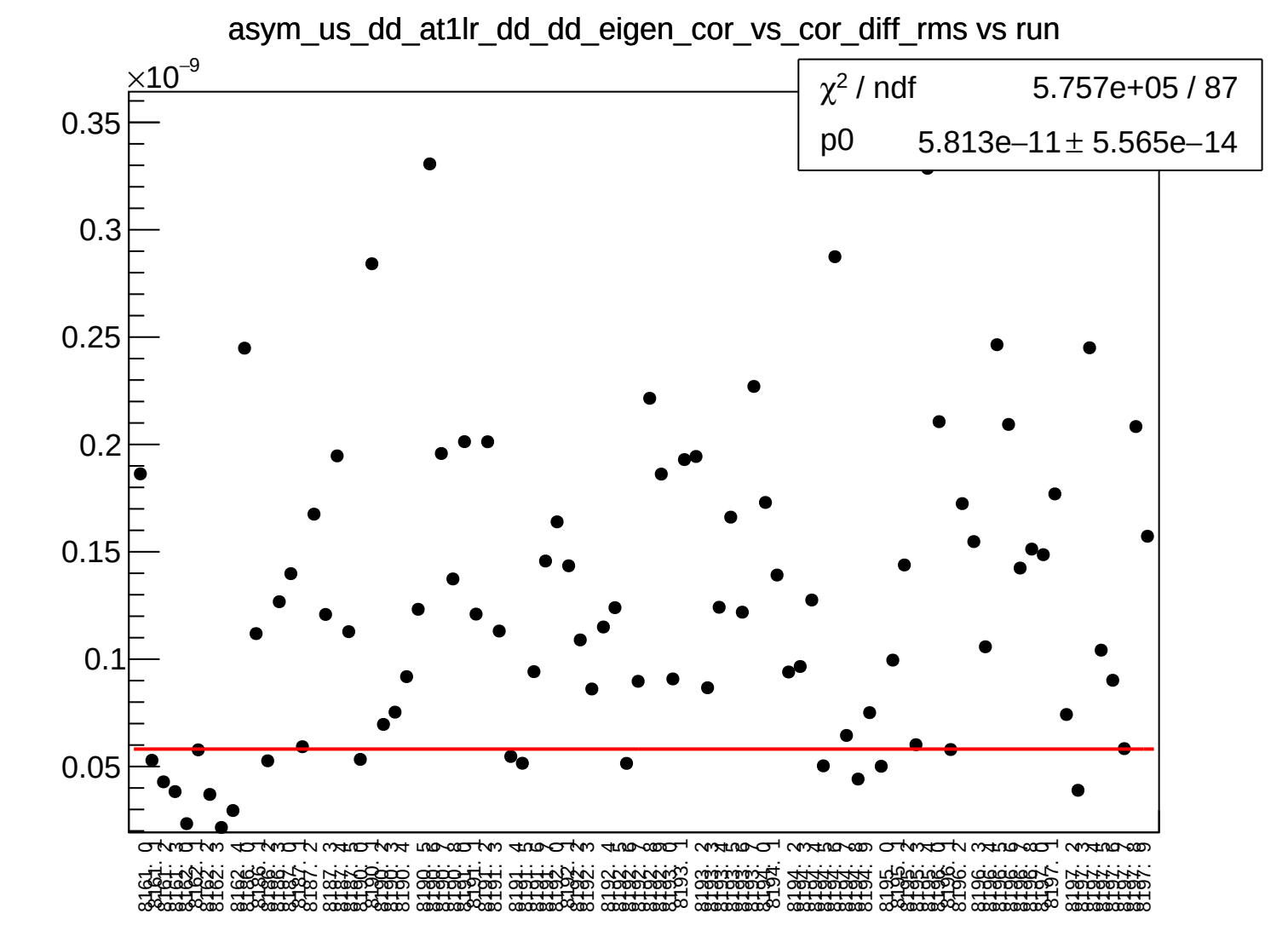

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.457e+05 / 87
p0 44.52 ± 0.03874
200
180
160
140
120
100
80
60
40
20

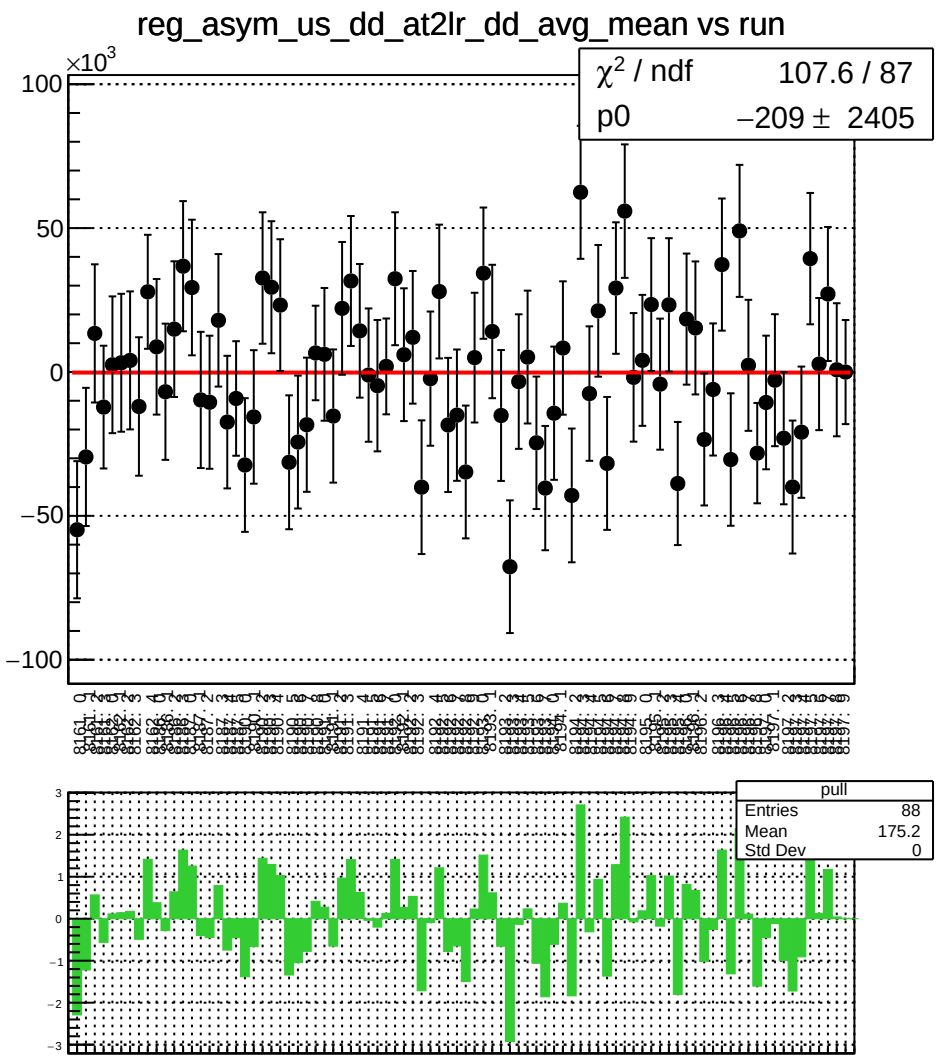

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.9 / 87
p0 −0.009348 ± 0.05478
pull
Entries 88
Mean 235.5
Std Dev 0

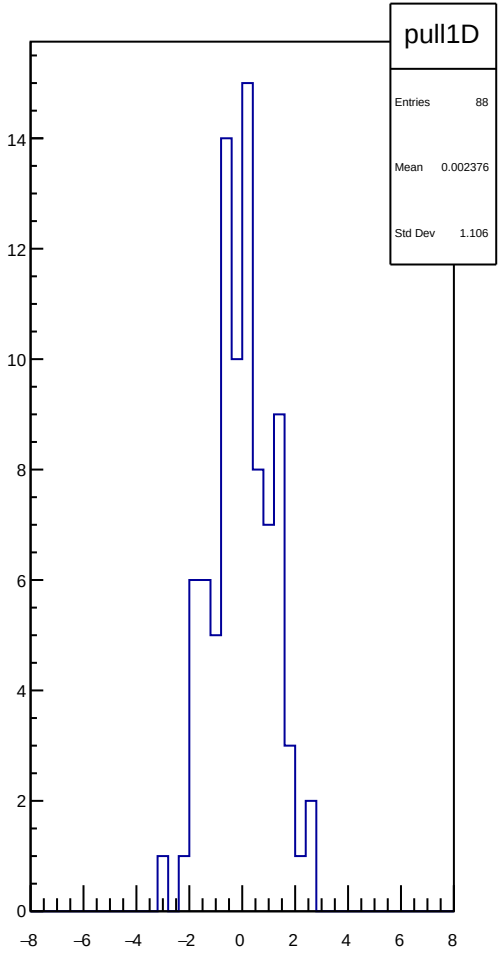

pull1D
Entries 88
Mean 0.03799
Std Dev 1.117

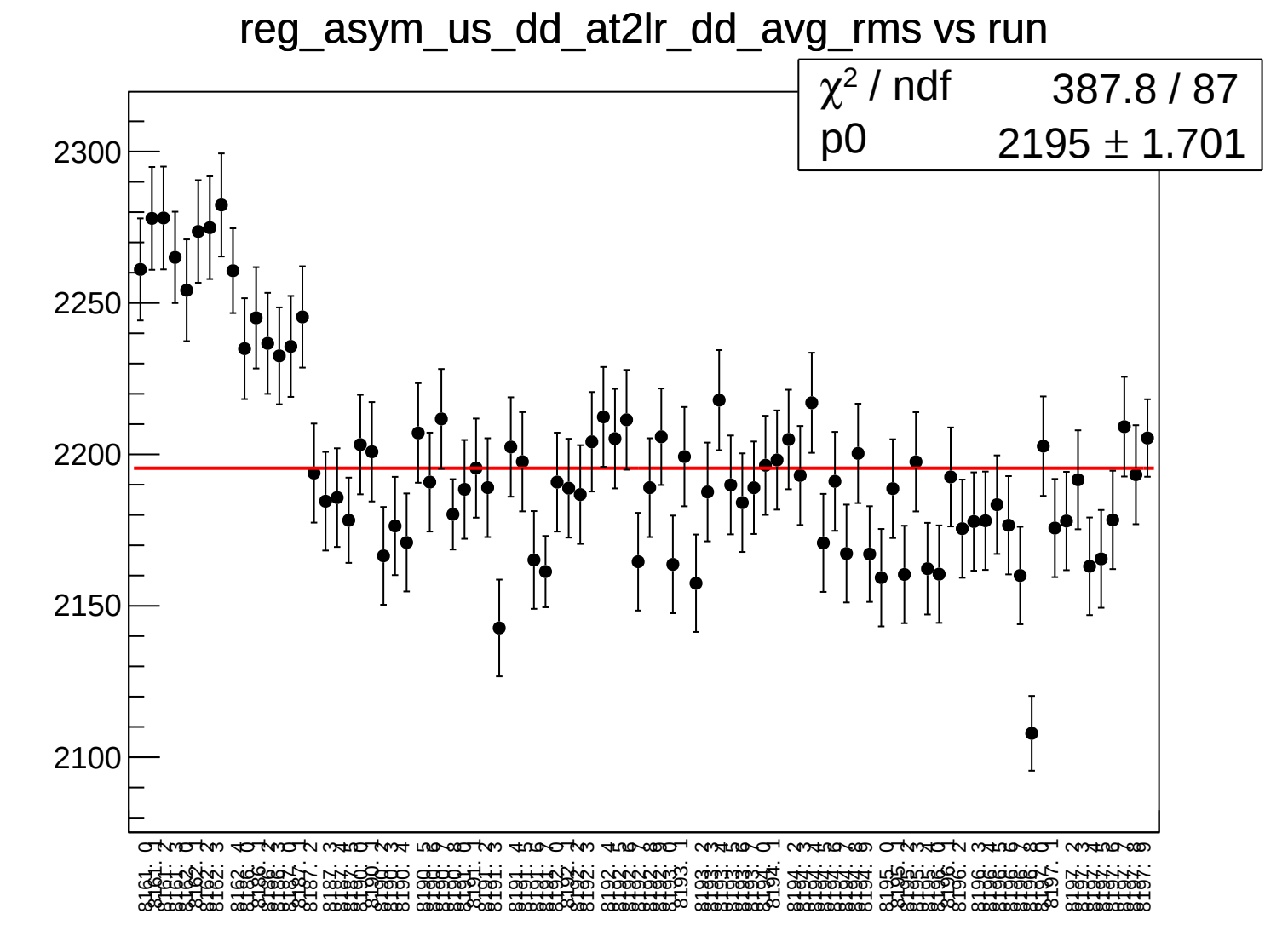

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.457e+05 / 87
p0 44.52 ± 0.03874
200
180
160
140
120
100
80
60
40
20

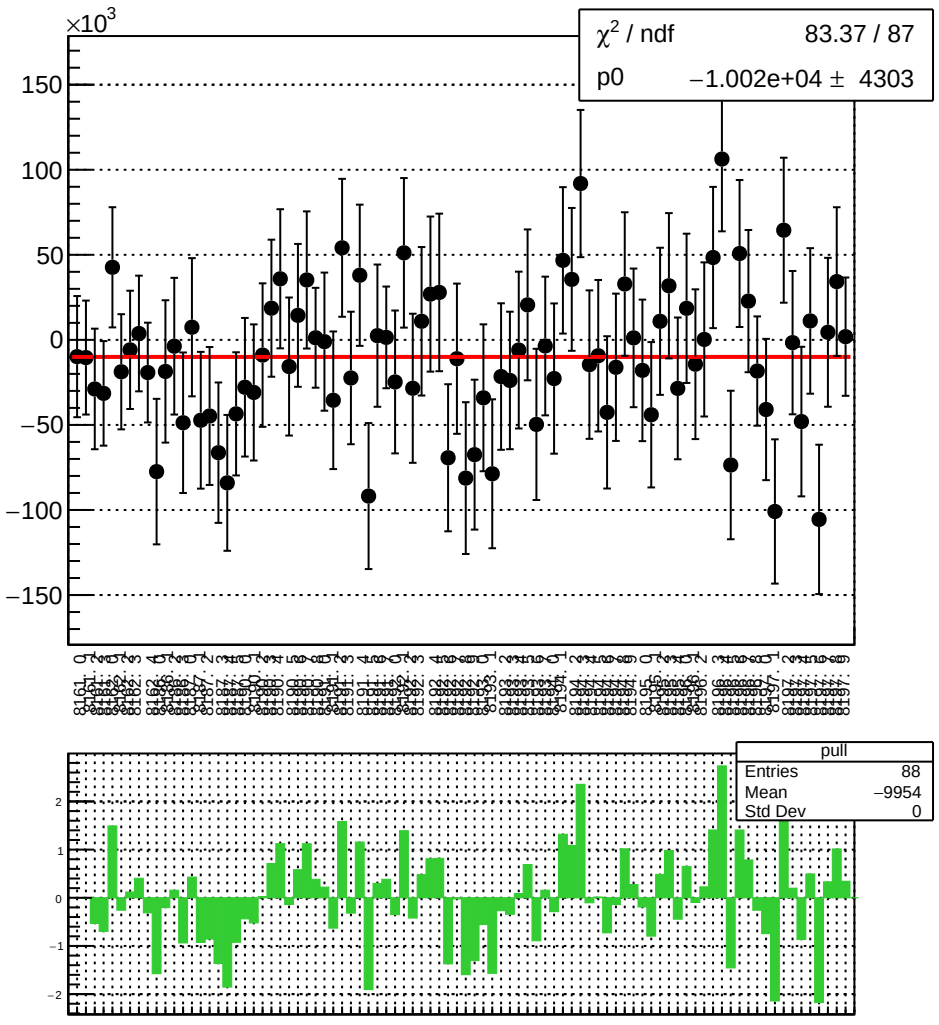

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.1 / 87
p0 −1.459e−14 ± 7.869e−14
pull
Entries 88
Mean 73.74
Std Dev 8.585
pull1D
Entries 88
Mean 0.107
Std Dev 1.039

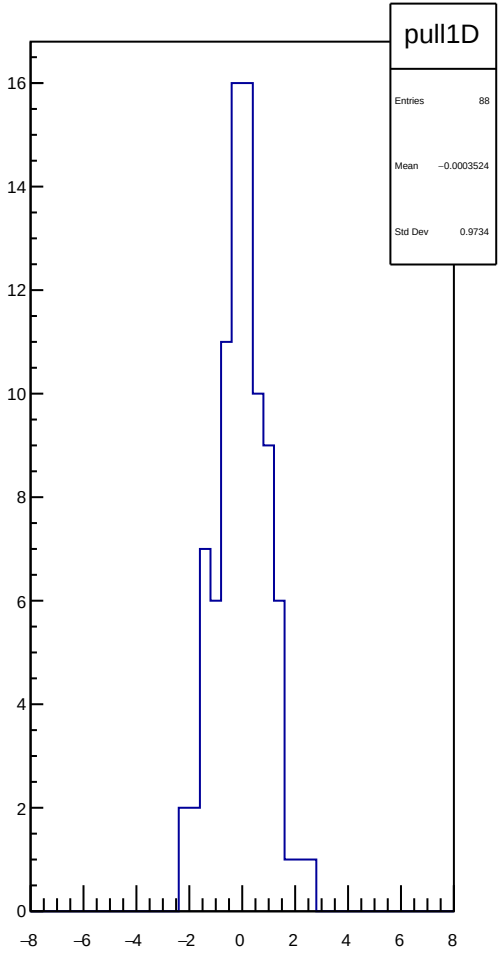

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.757e+05 / 87
p0 5.813e−11 ± 5.565e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

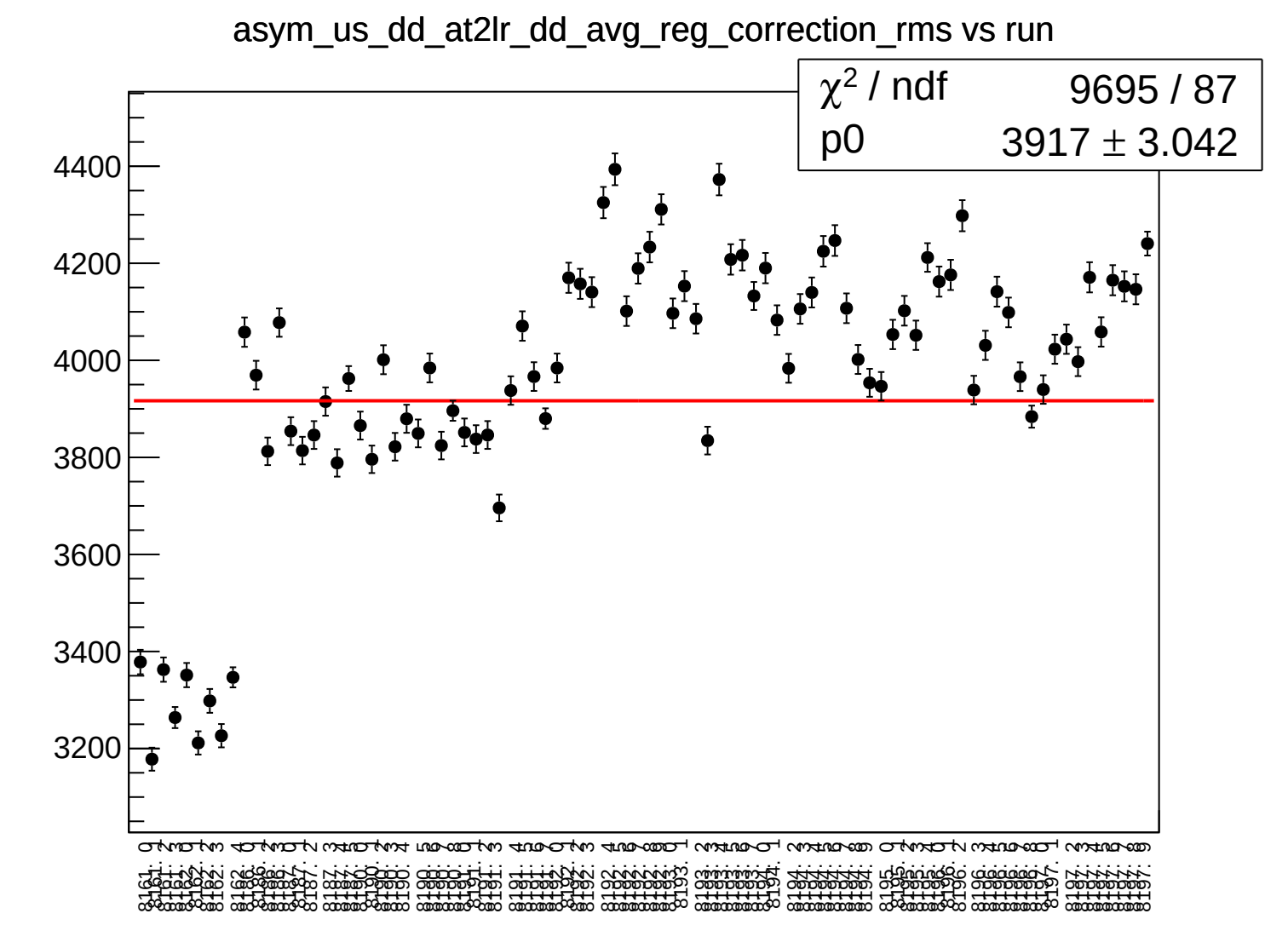

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 107.6 / 87
p0 −209 ± 2405
pull
Entries 88
Mean 175.2
Std Dev 0

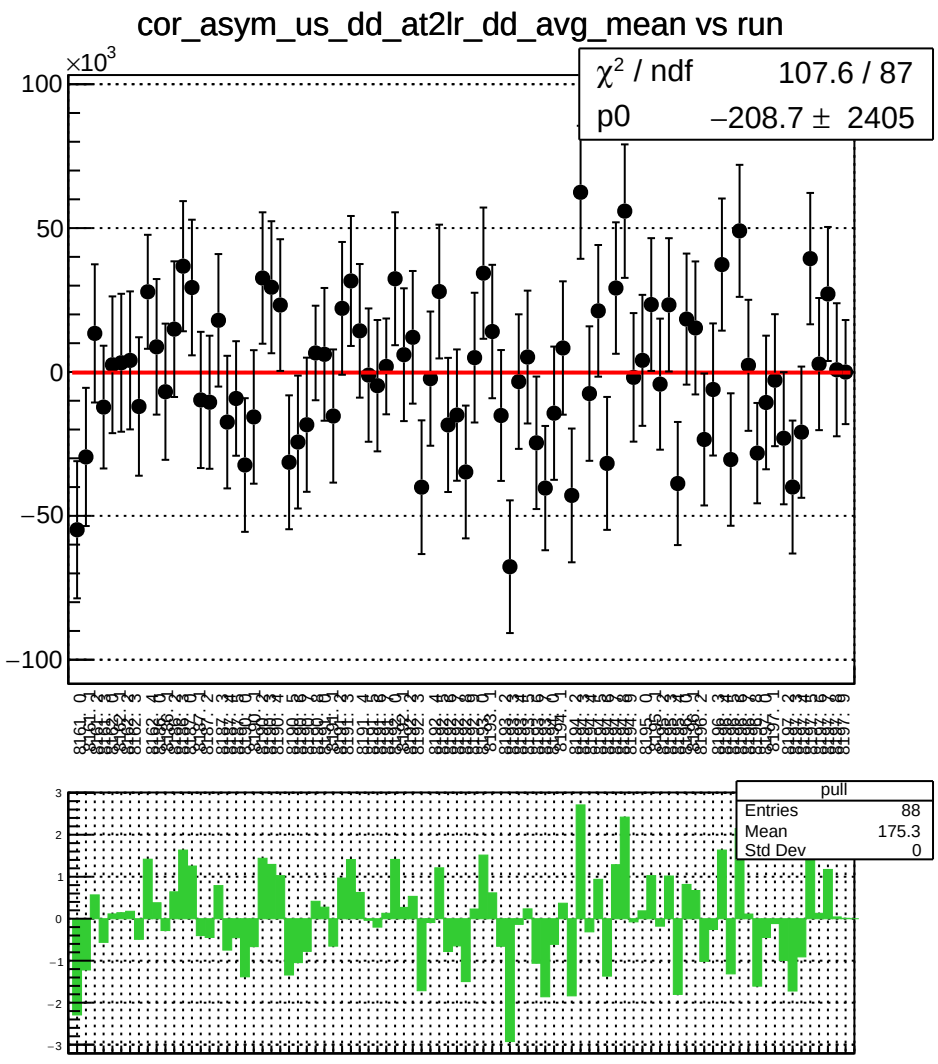

pull1D
Entries 88
Mean 0.002376
Std Dev 1.106

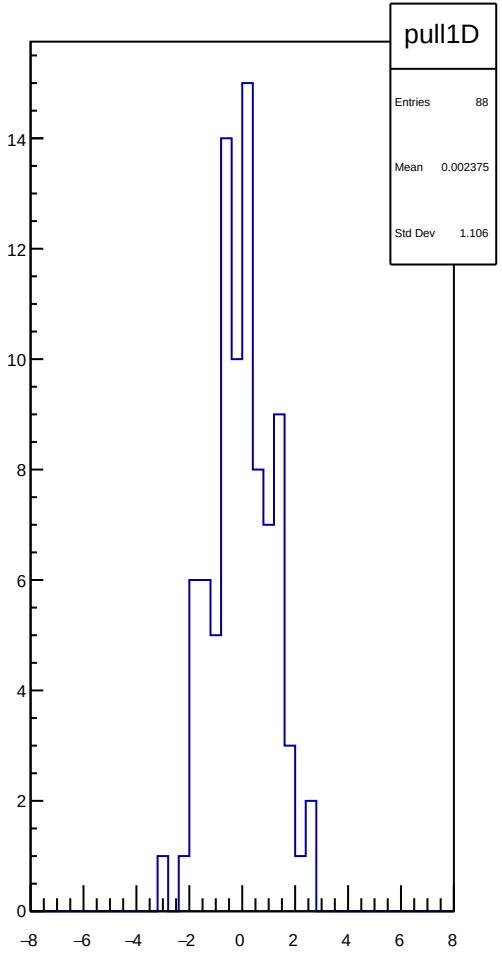

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 387.8 / 87
p0 2195 ± 1.701
2300
2250
2200
2150
2100

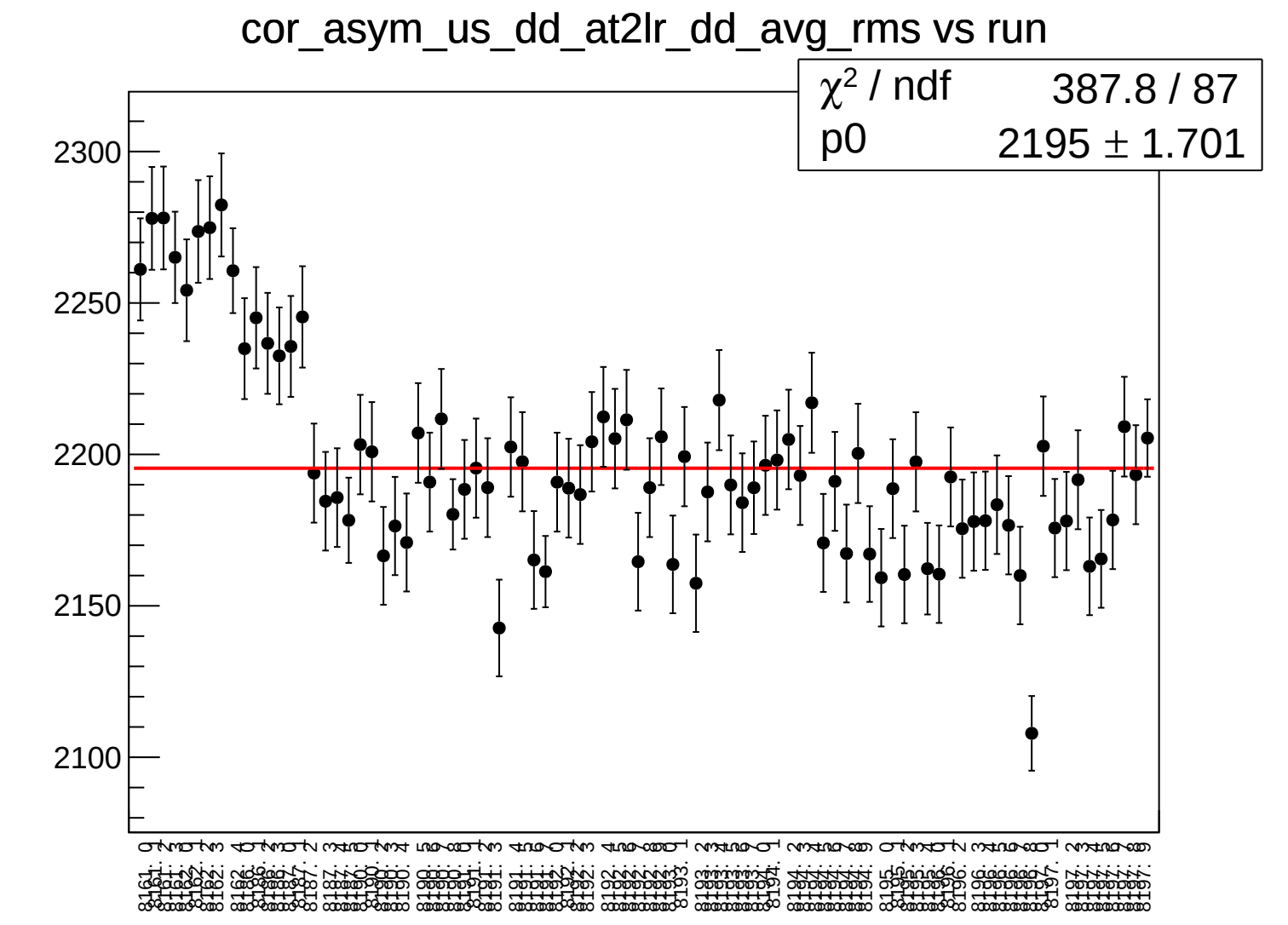

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.37 / 87
p0 −1.002e+04 ± 4303
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −9954
Std Dev 0
2
1
0
−1
−2

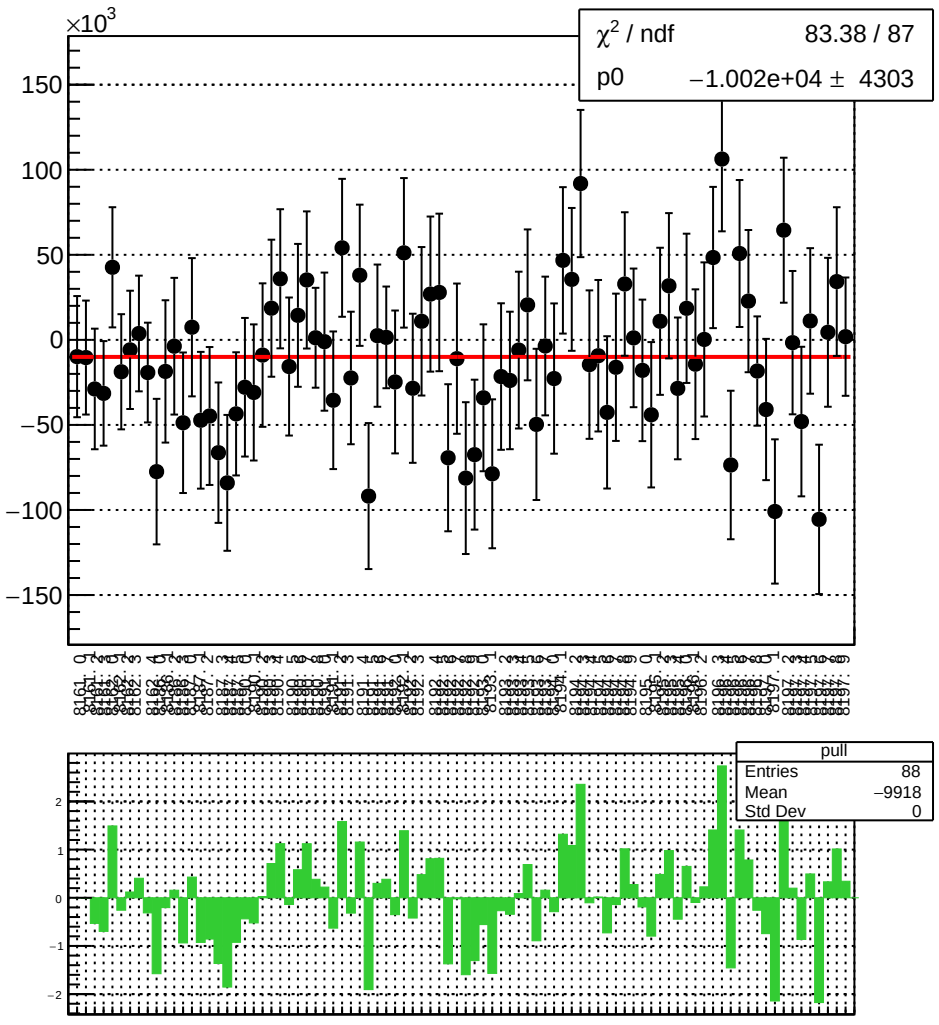

pull1D
Entries 88
Mean −0.0003524
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

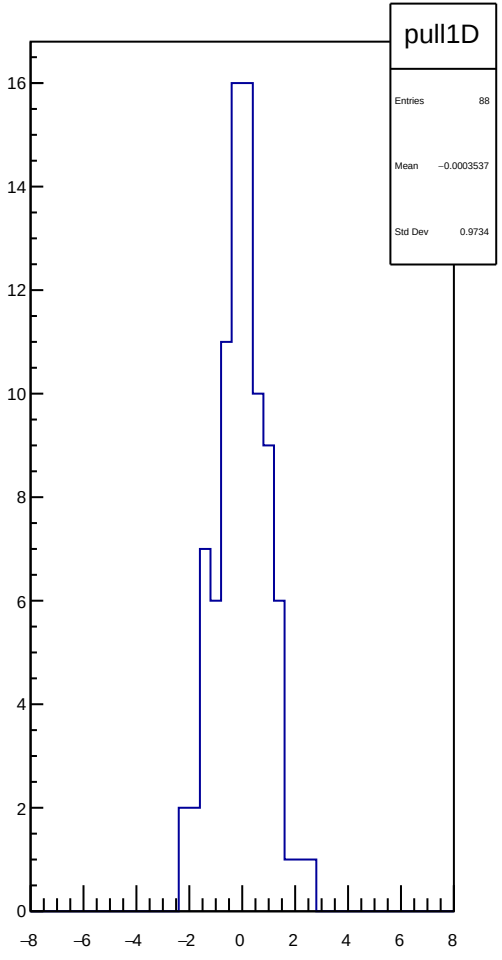

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 9695 / 87
p0 3917 ± 3.042
4400
4200
4000
3800
3600
3400
3200

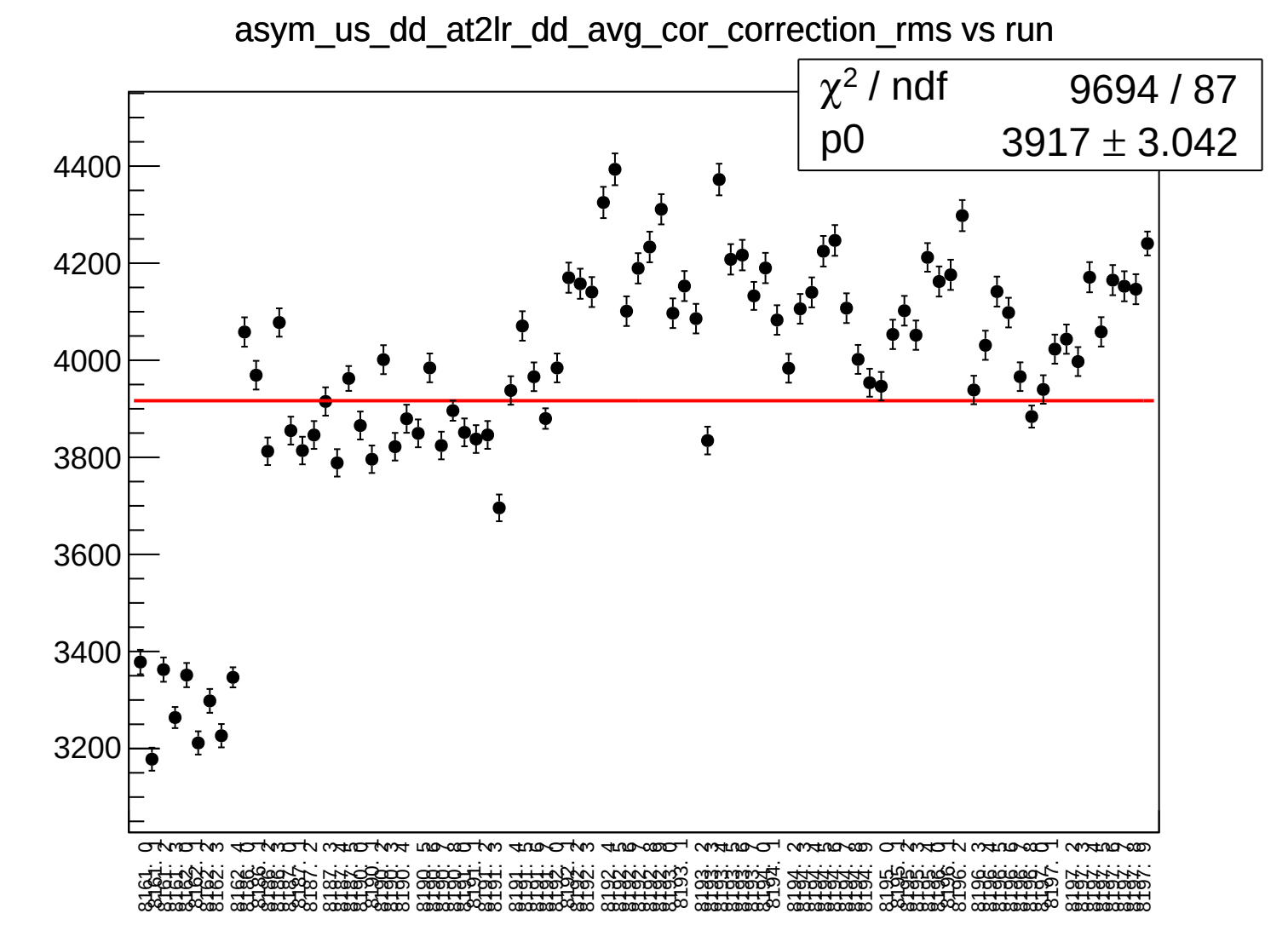

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 107.6 / 87
p0 −208.7 ± 2405
pull
Entries 88
Mean 175.3
Std Dev 0

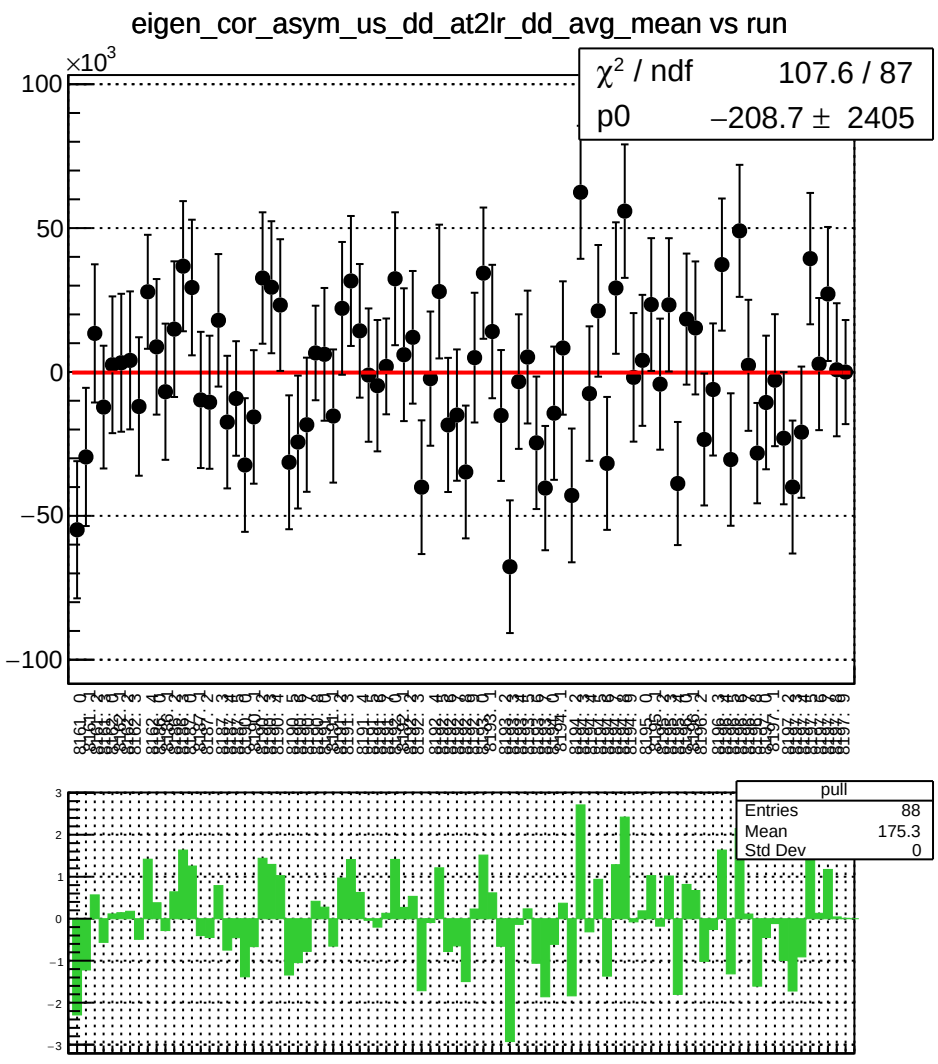

pull1D
Entries 88
Mean 0.002375
Std Dev 1.106

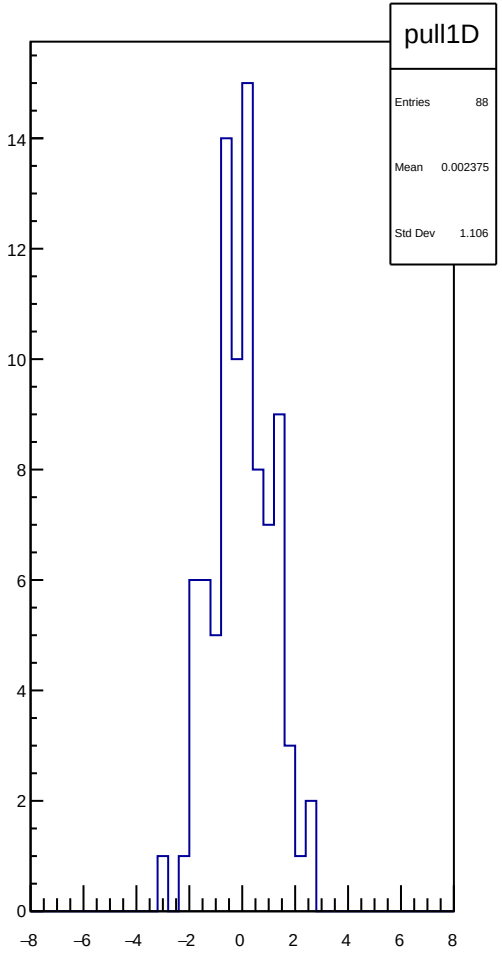

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 387.8 / 87
p0 2195 ± 1.701
2300
2250
2200
2150
2100

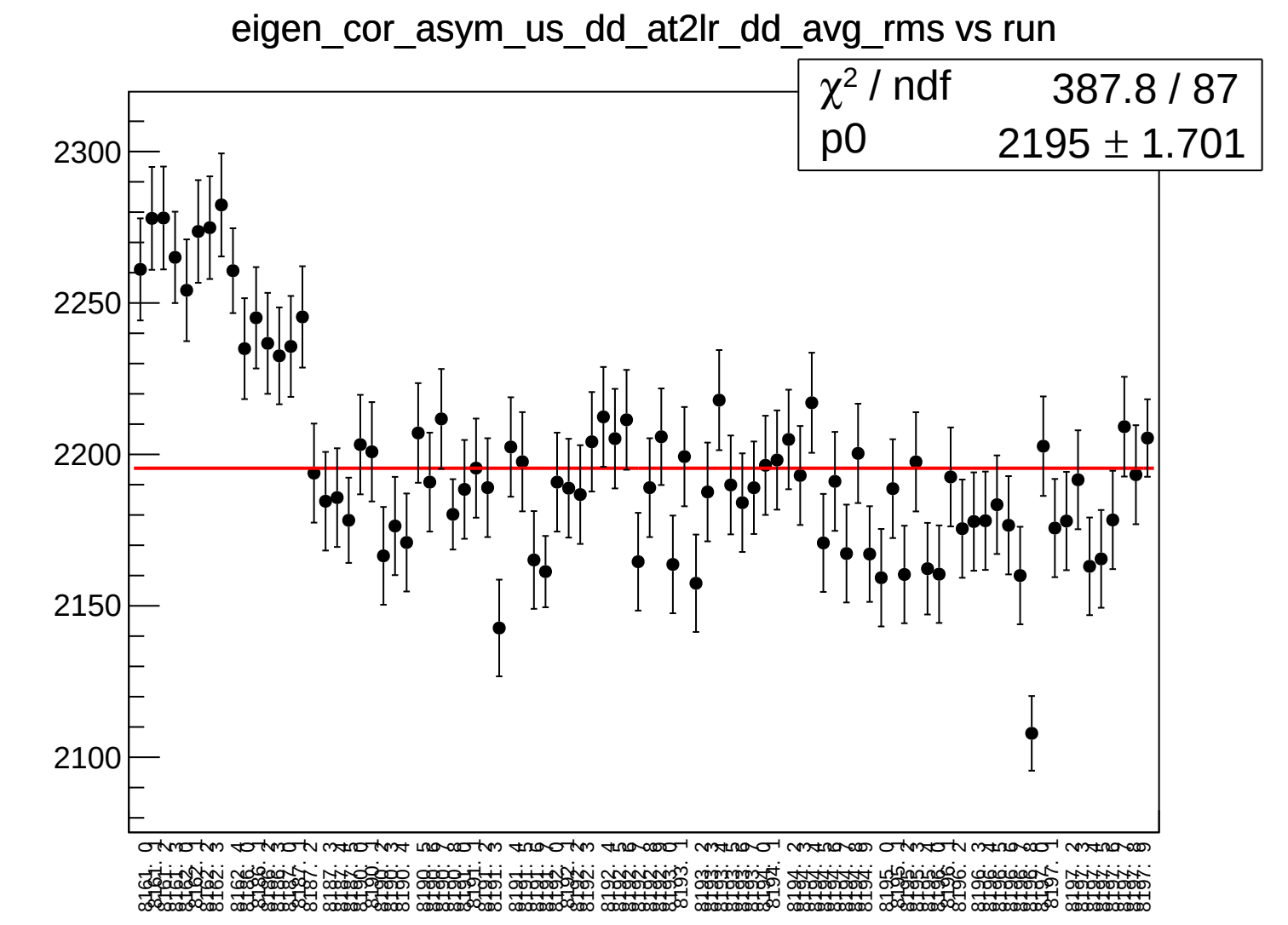

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.38 / 87
p0 −1.002e+04 ± 4303
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −9918
Std Dev 0
2
1
0
−1
−2

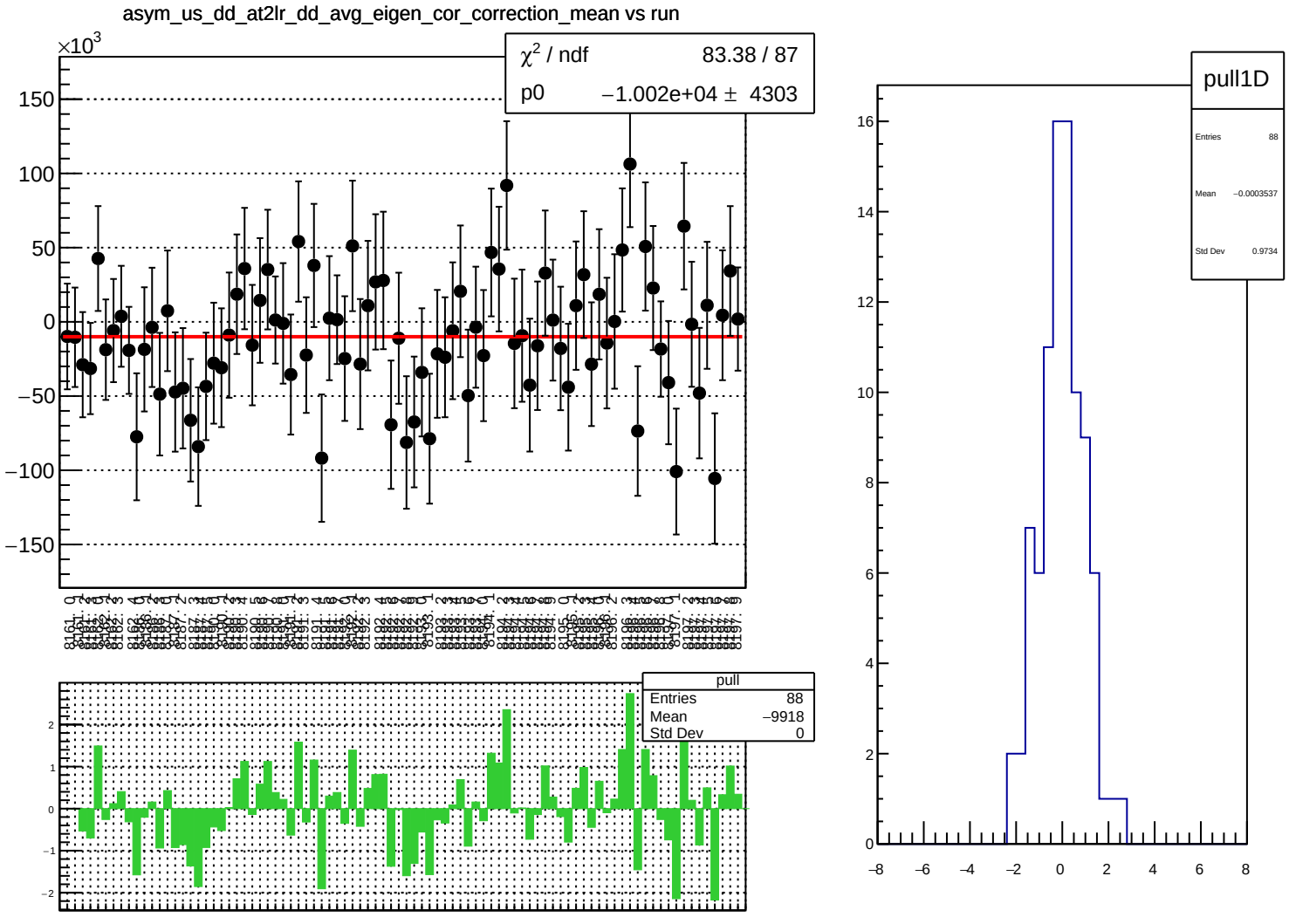

pull1D
Entries 88
Mean −0.0003537
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

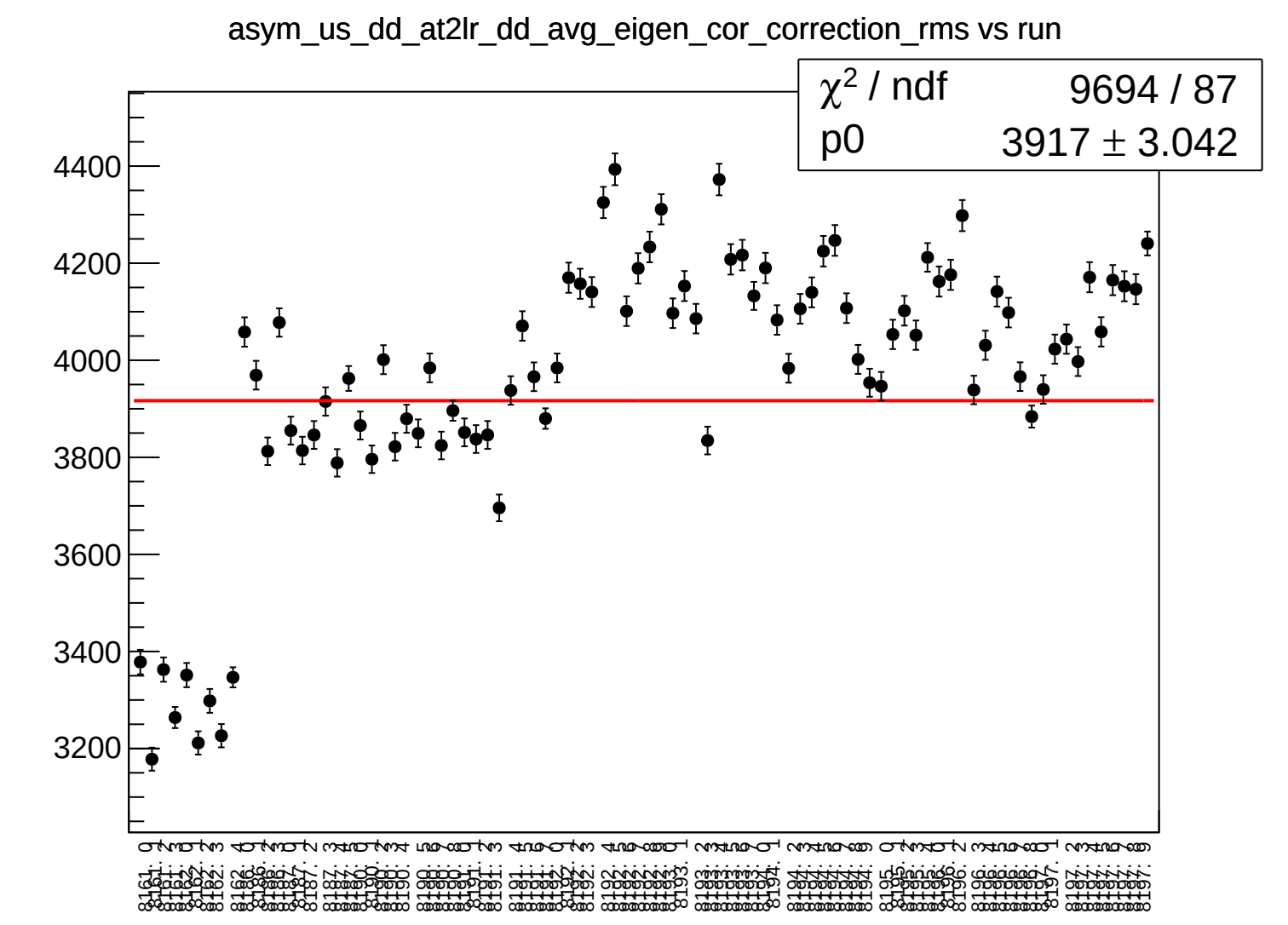

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 9694 / 87
p0 3917 ± 3.042
4400
4200
4000
3800
3600
3400
3200

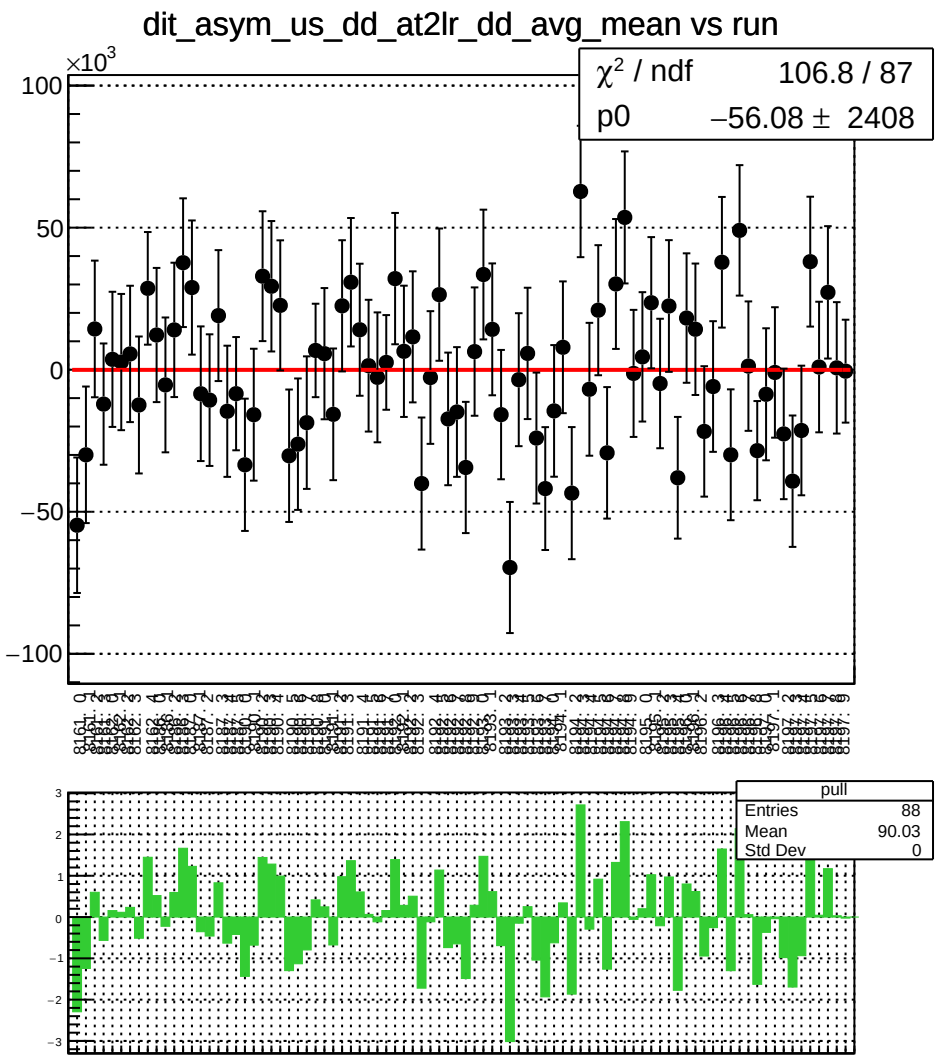

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 107.6 / 87
p0 −208.7 ± 2405
pull
Entries 88
Mean 175.3
Std Dev 0

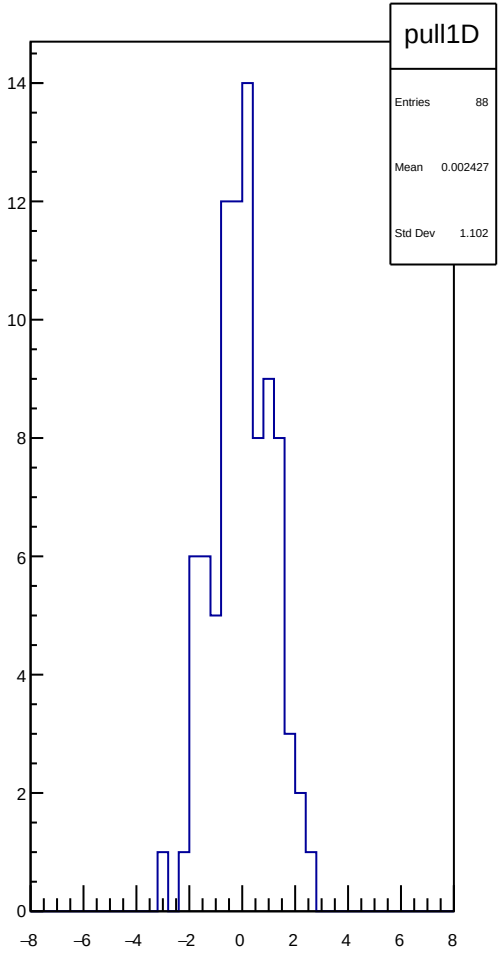

pull1D
Entries 88
Mean 0.002375
Std Dev 1.106

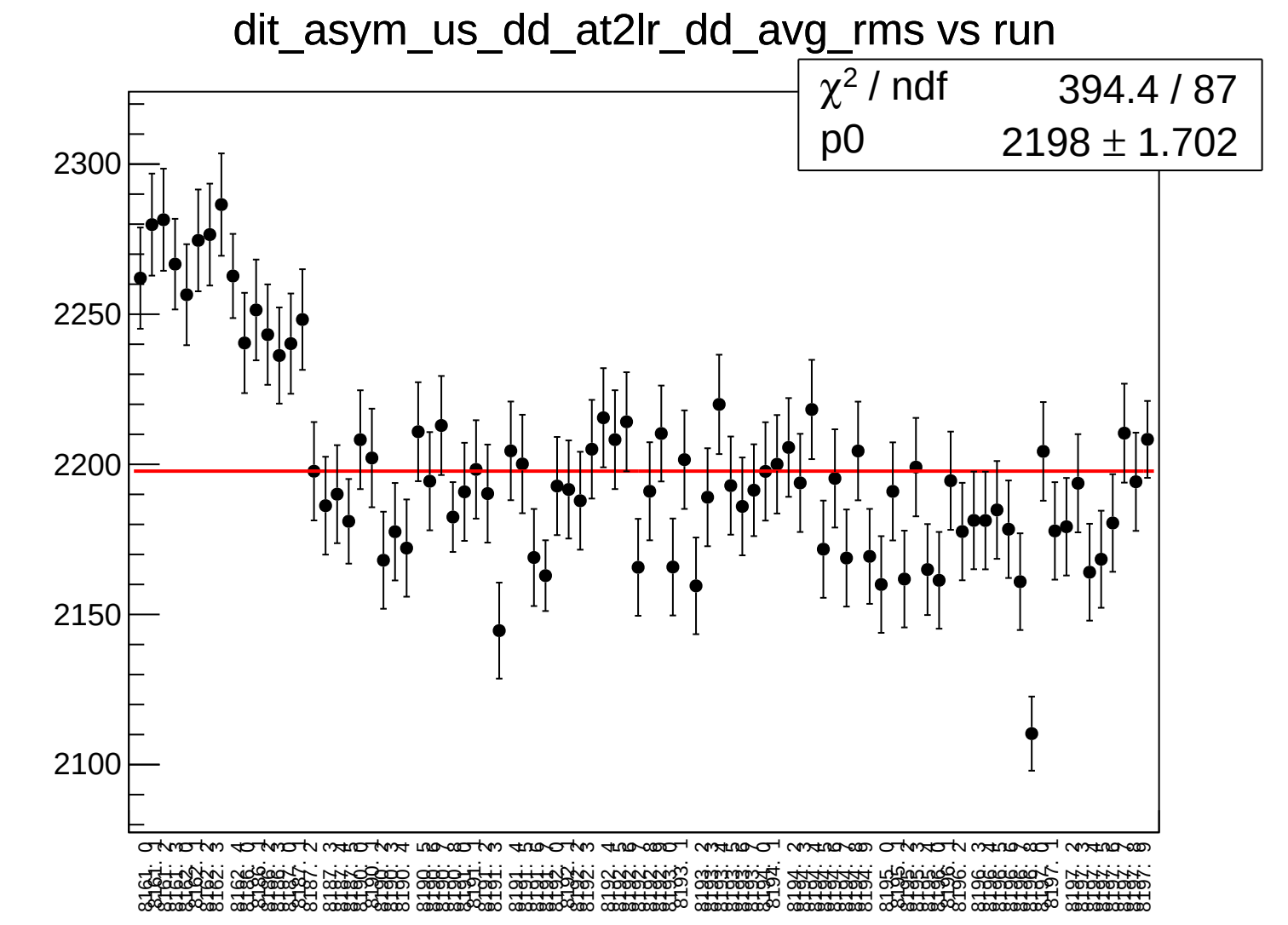

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 387.8 / 87
p0 2195 ± 1.701
2300
2250
2200
2150
2100

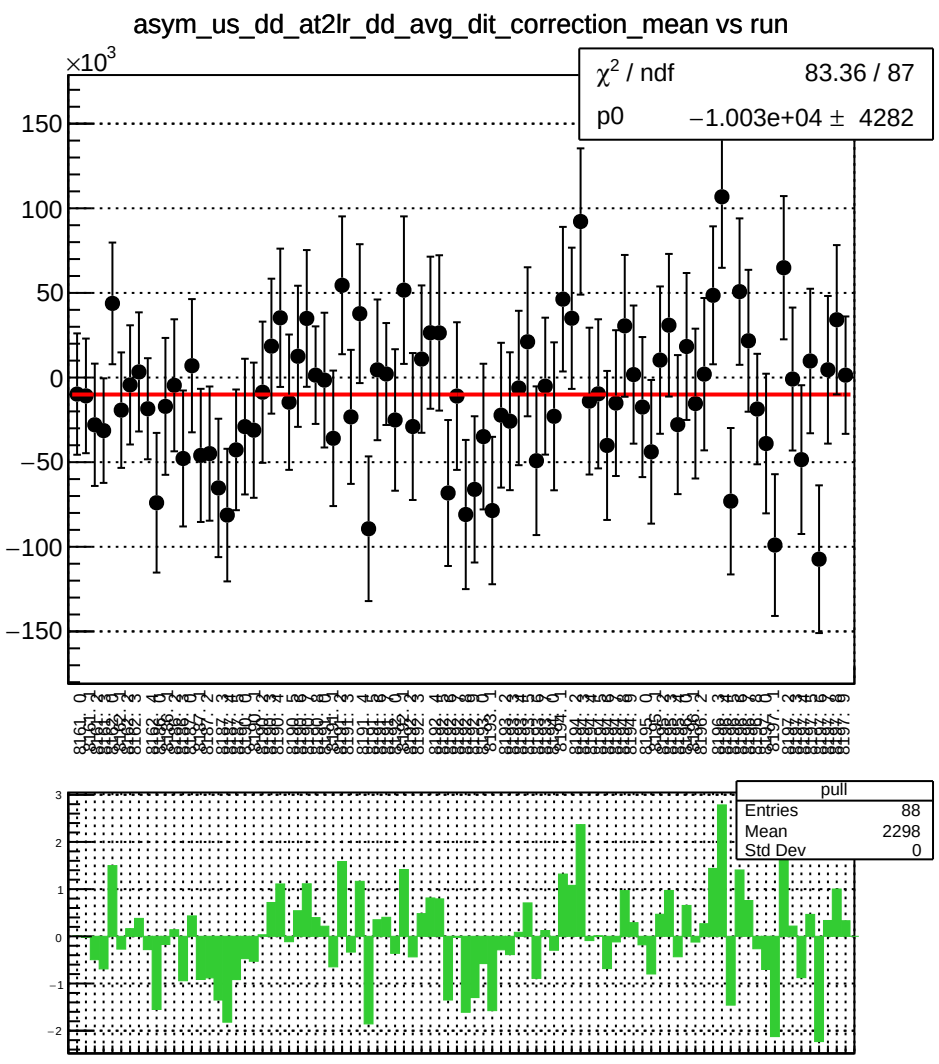

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.38 / 87
p0 −1.002e+04 ± 4303
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −9918
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0003537
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

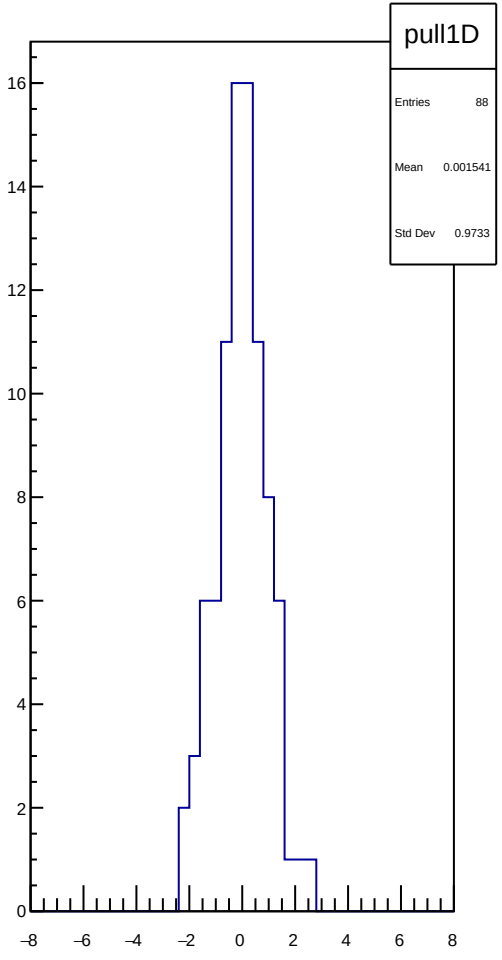

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9694 / 87
p0 3917 ± 3.042
4400
4200
4000
3800
3600
3400
3200

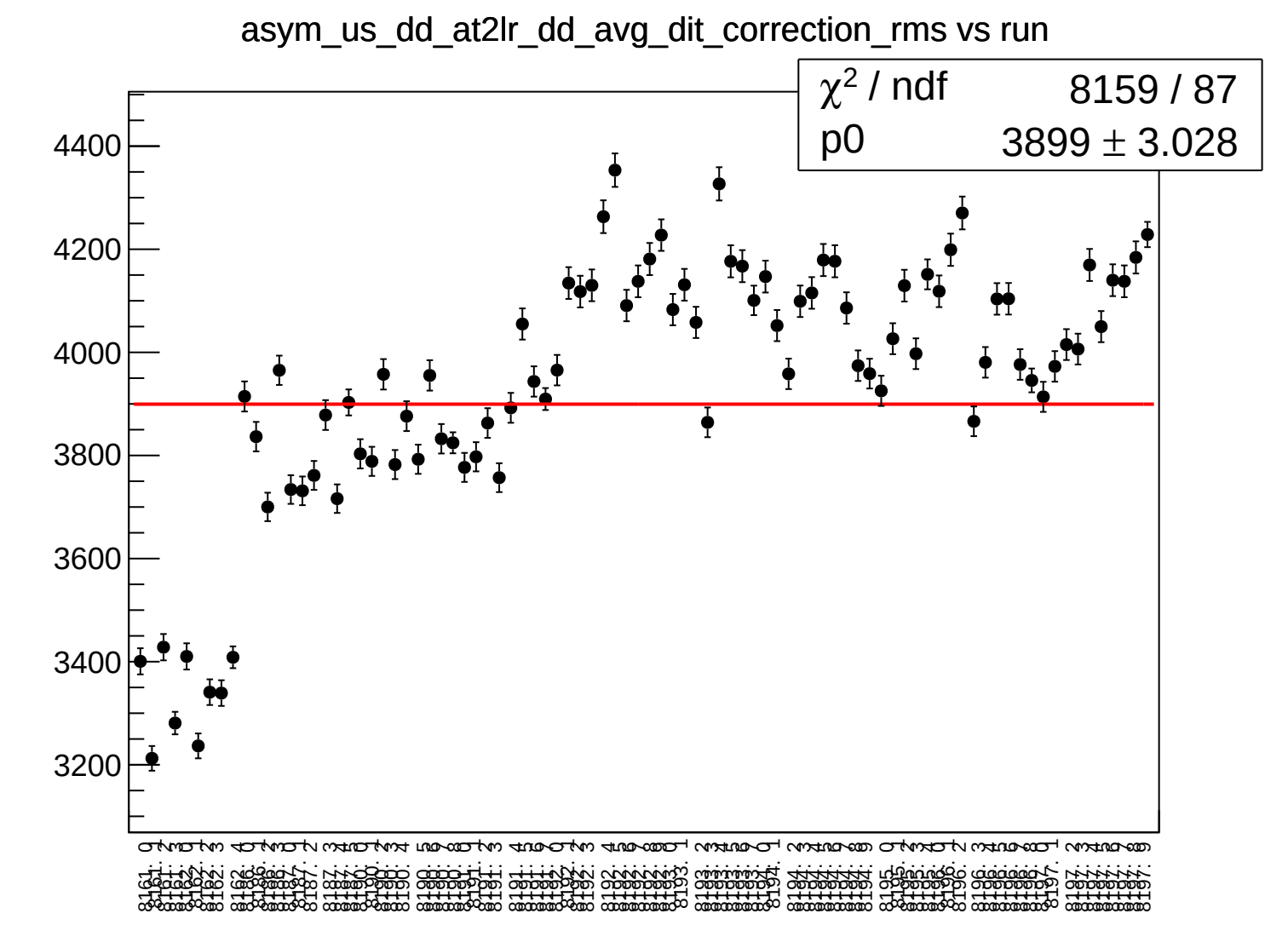

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 106.8 / 87
p0 −56.08 ± 2408
100
50
0
−50
−100
pull
Entries 88
Mean 90.03
Std Dev 0
3
2
1
0
−1
−2
−3

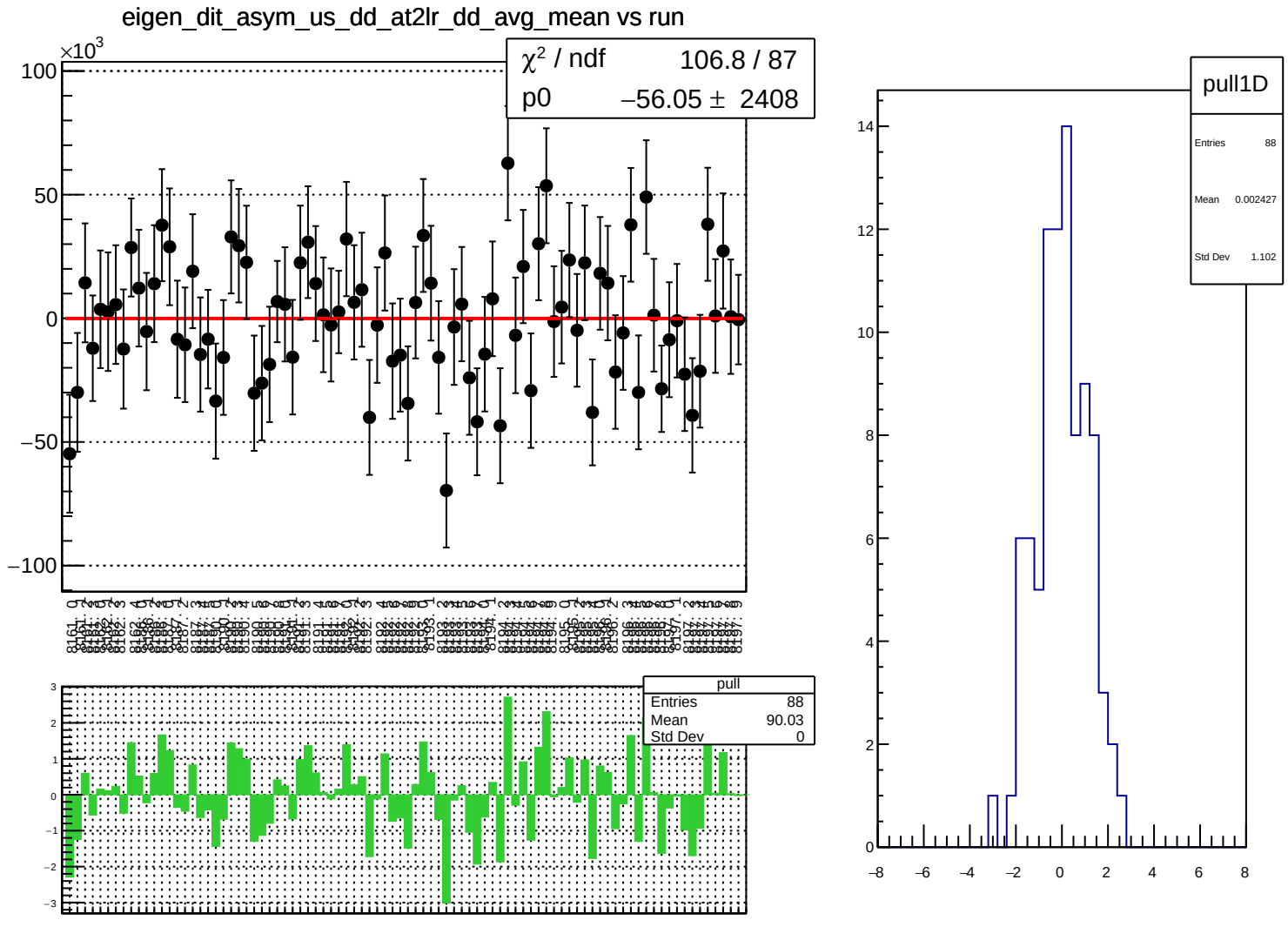

pull1D
Entries 88
Mean 0.002427
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

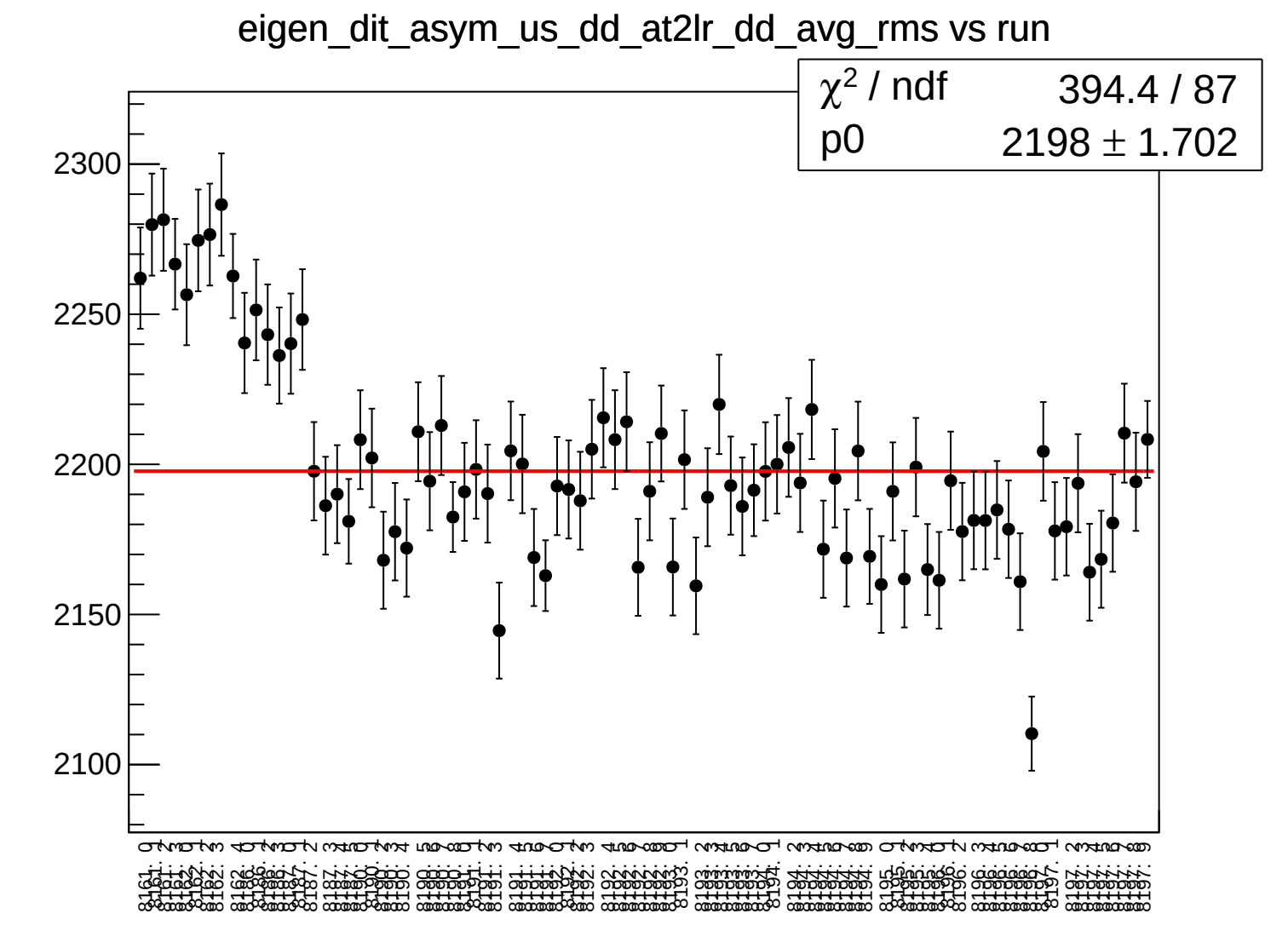

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 394.4 / 87
p0 2198 ± 1.702
2300
2250
2200
2150
2100

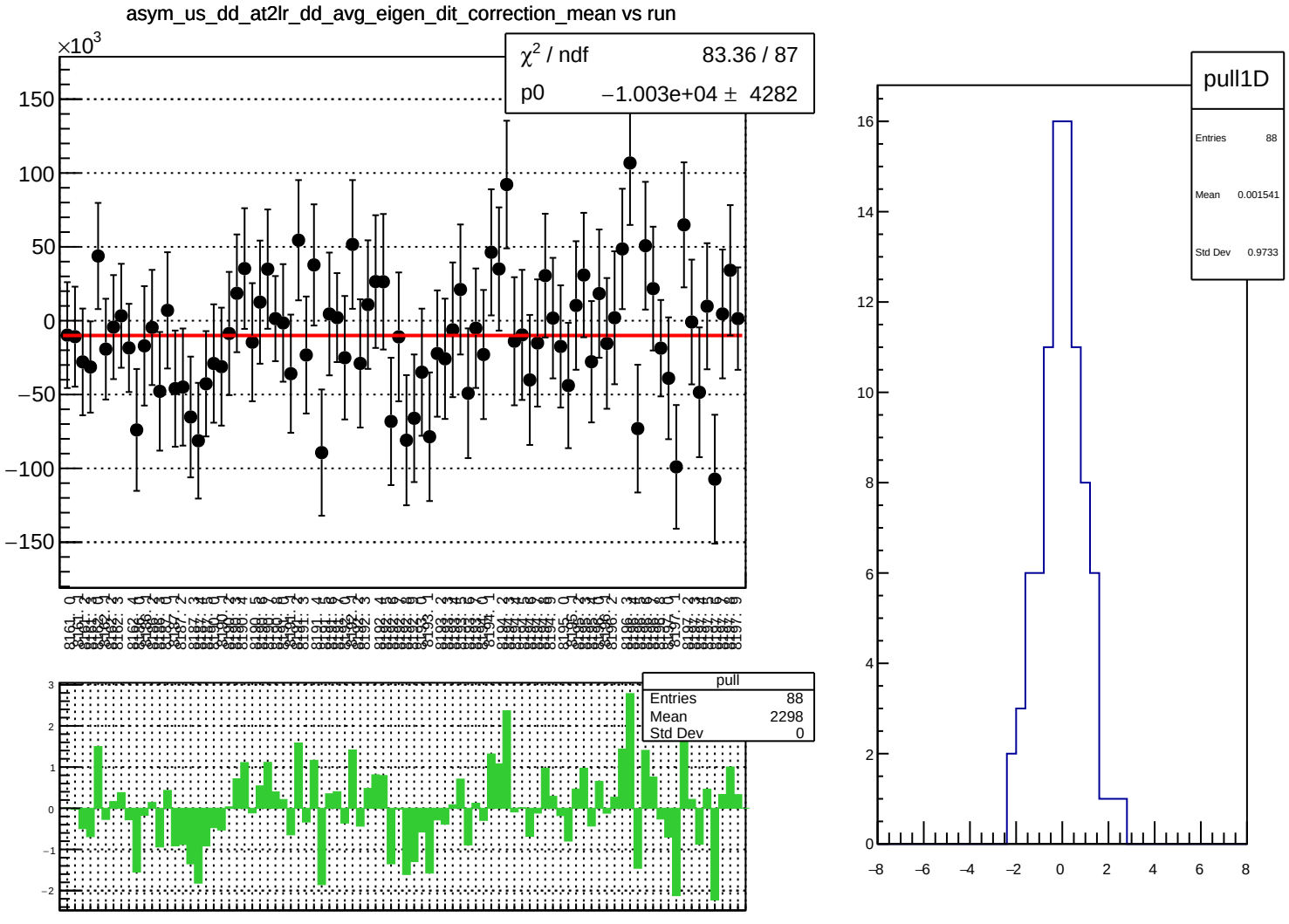

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.36 / 87
p0 −1.003e+04 ± 4282
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 2298
Std Dev 0
3
2
1
0
−1
−2

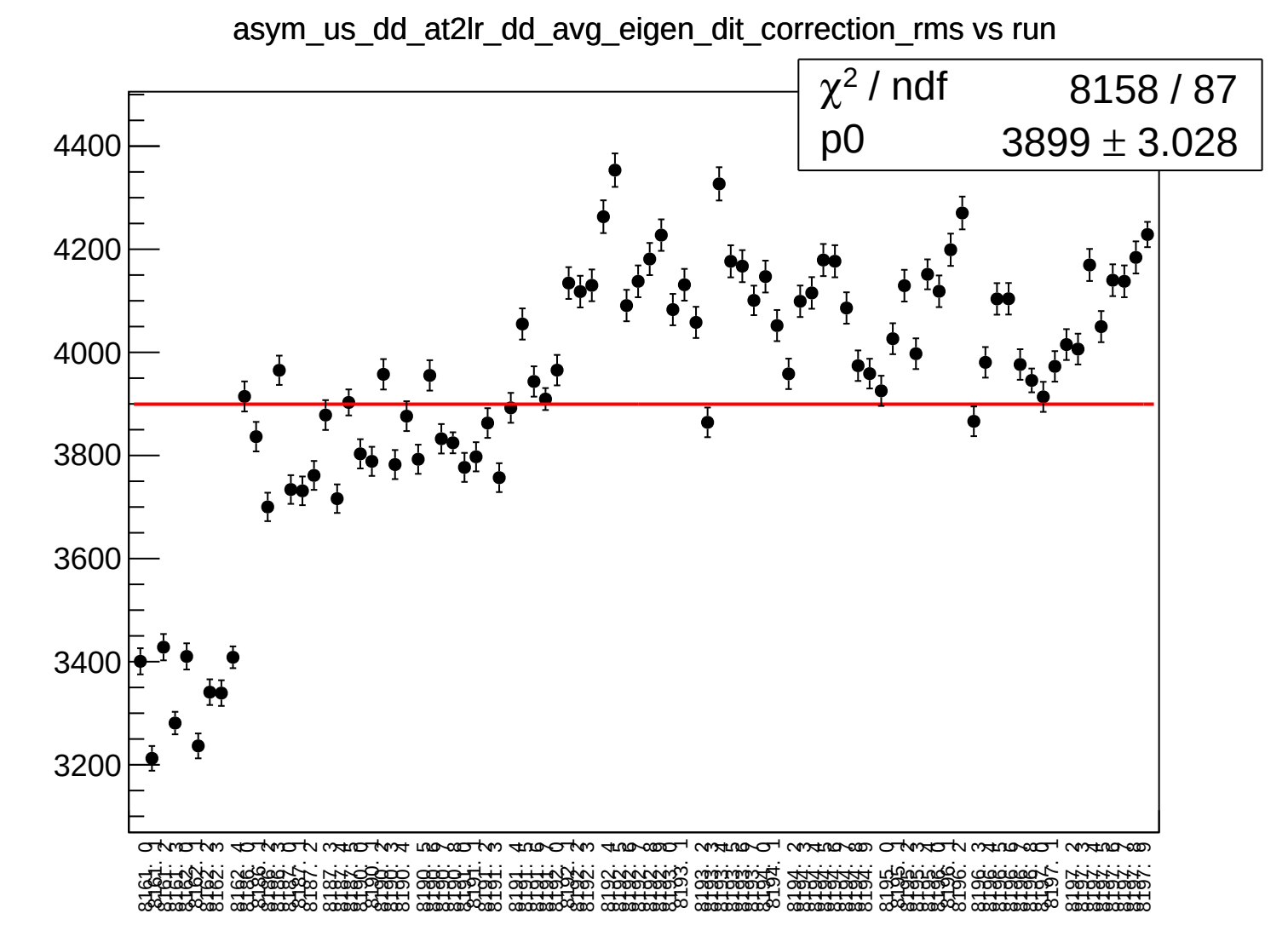

pull1D
Entries 88
Mean 0.001541
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

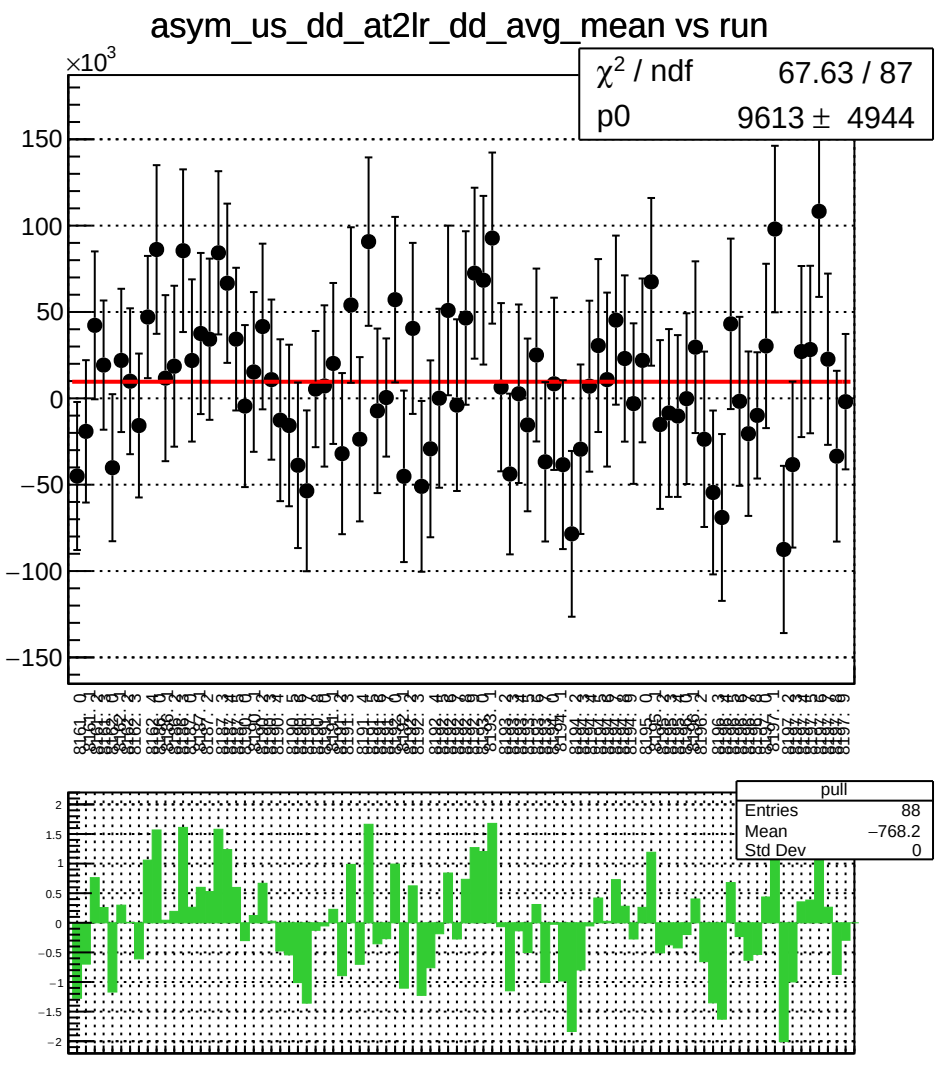

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 8159 / 87
p0 3899 ± 3.028
4400
4200
4000
3800
3600
3400
3200

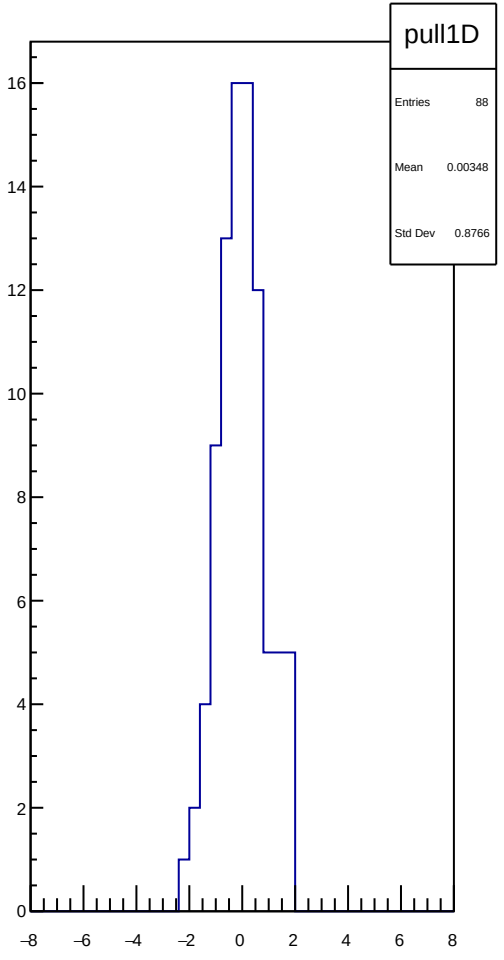

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 106.8 / 87
p0 −56.05 ± 2408
pull
Entries 88
Mean 90.03
Std Dev 0
pull1D
Entries 88
Mean 0.002427
Std Dev 1.102

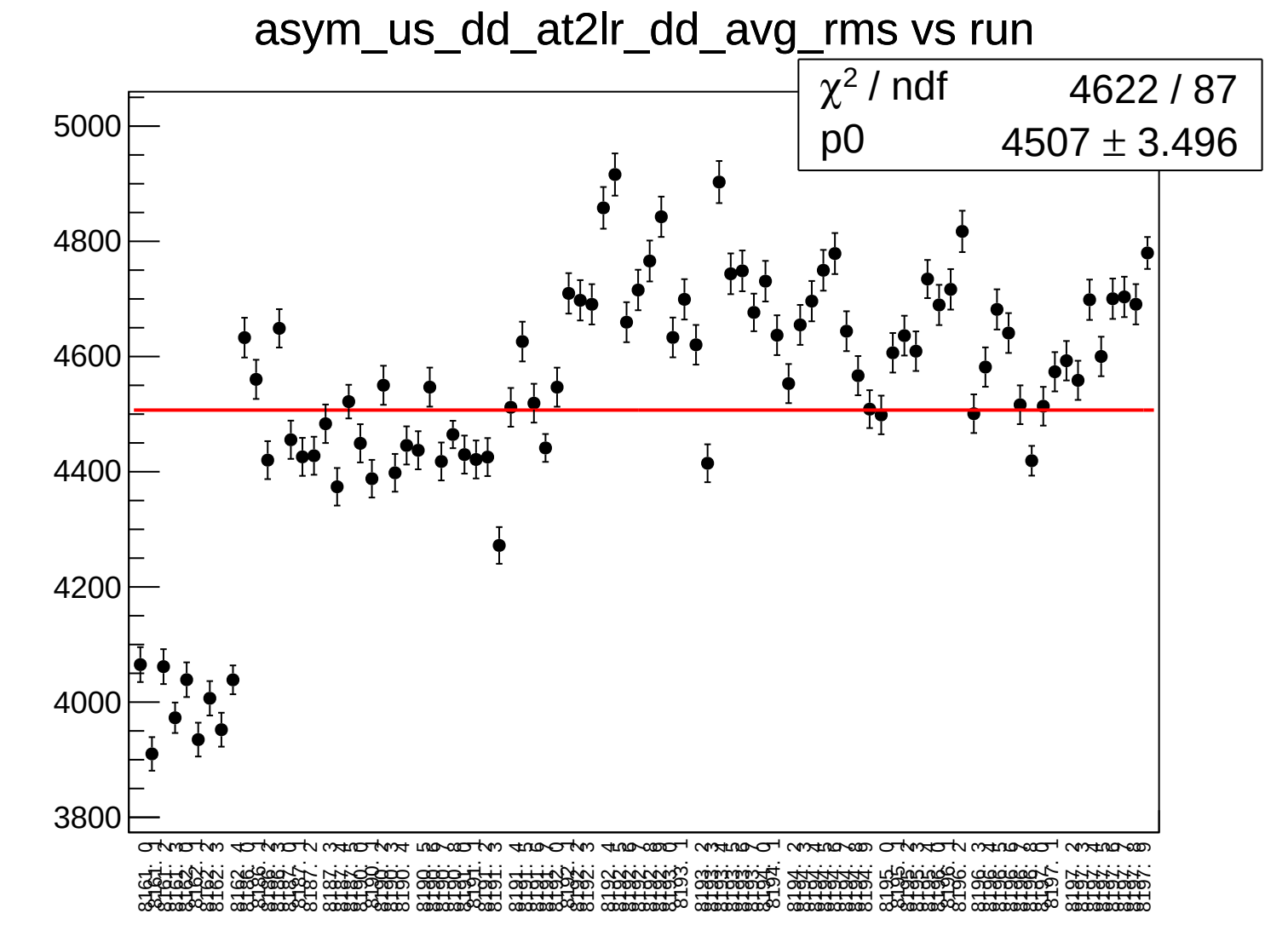

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 394.4 / 87
p0 2198 ± 1.702
2300
2250
2200
2150
2100

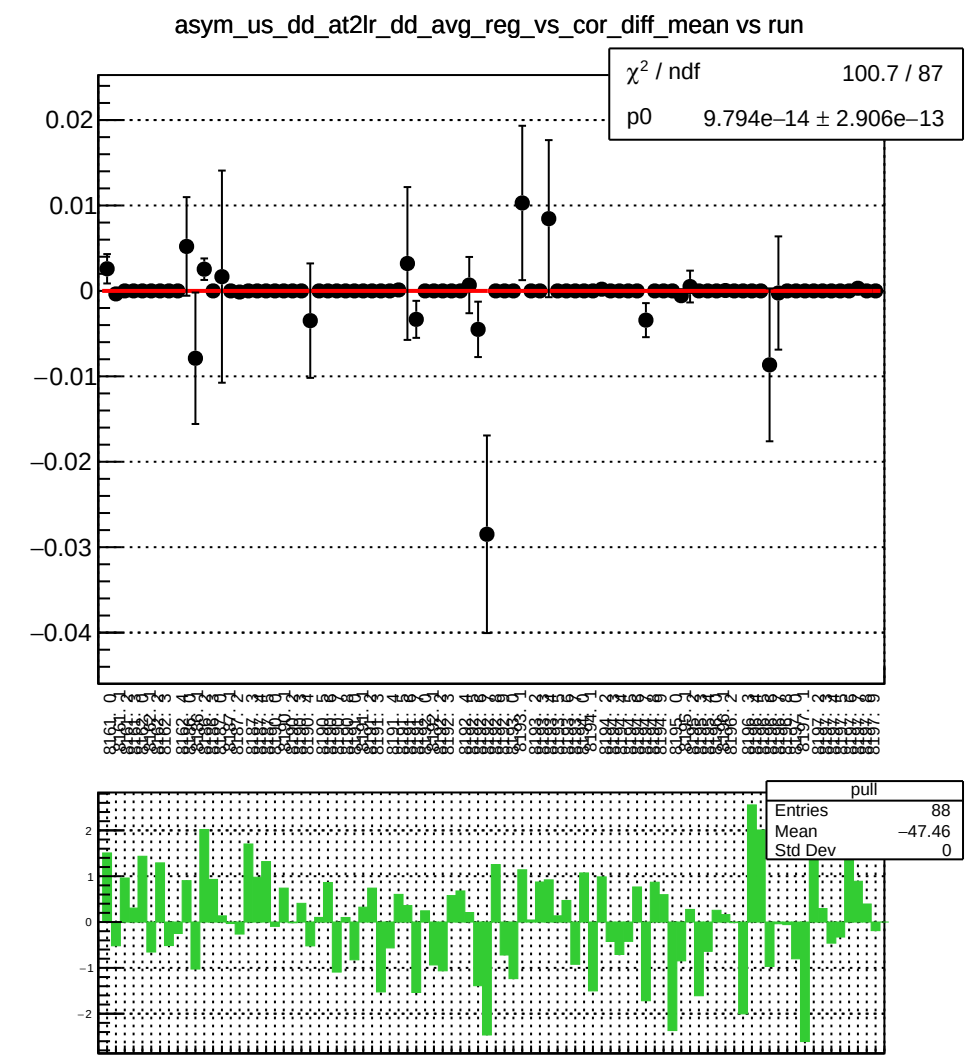

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.36 / 87
p0 −1.003e+04 ± 4282
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 2298
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001541
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

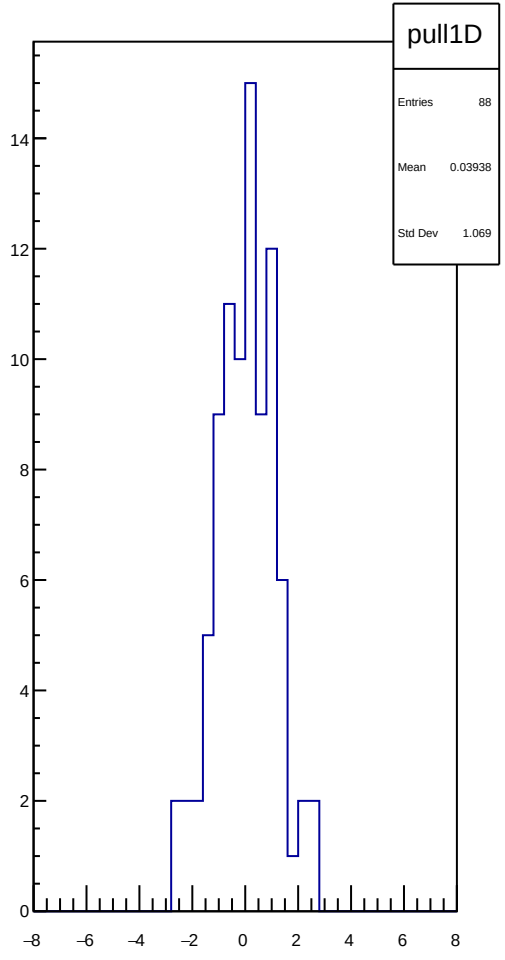

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8158 / 87
p0 3899 ± 3.028
4400
4200
4000
3800
3600
3400
3200

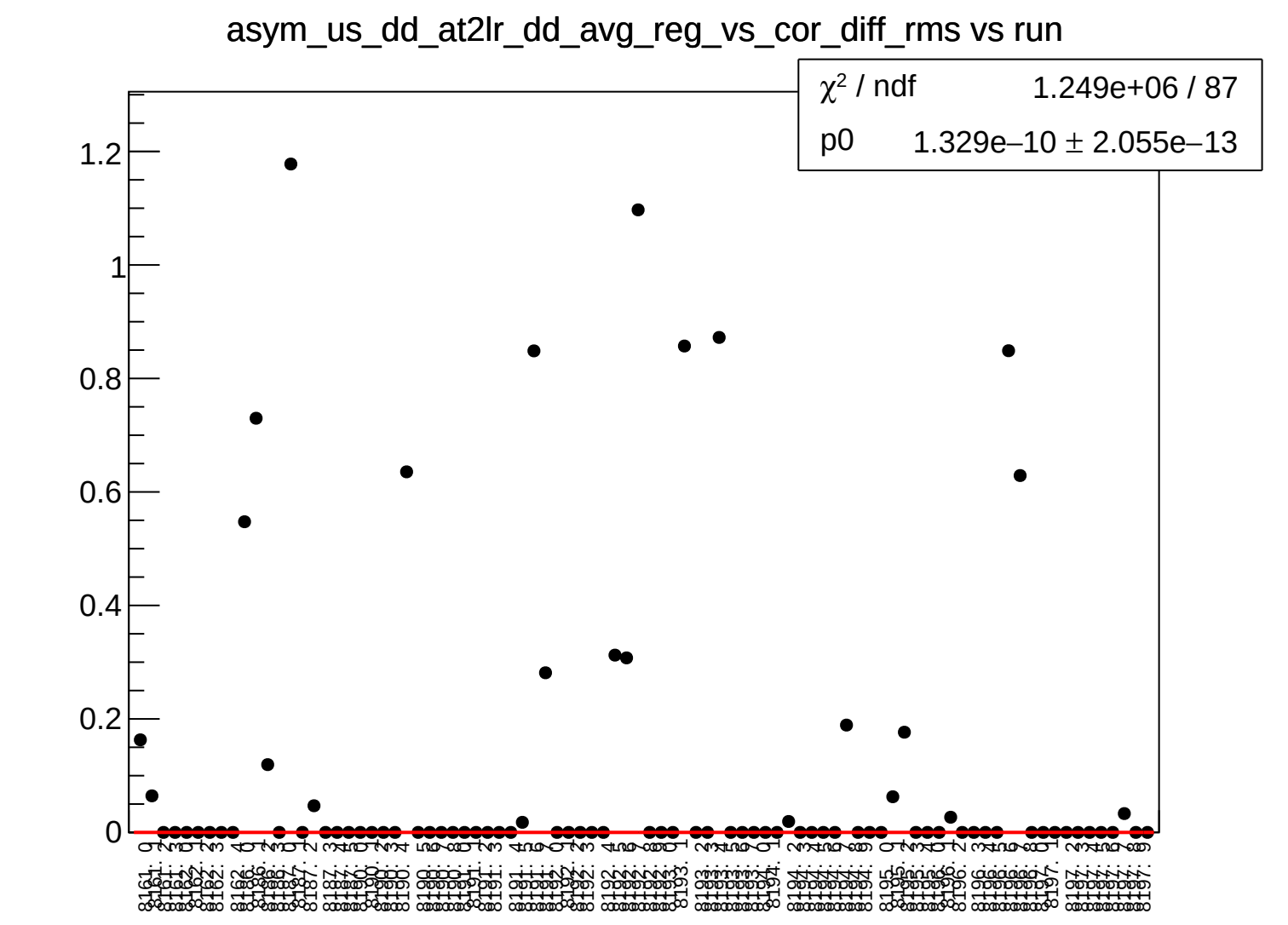

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 67.63 / 87
p0 9613 ± 4944
×10³
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −768.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

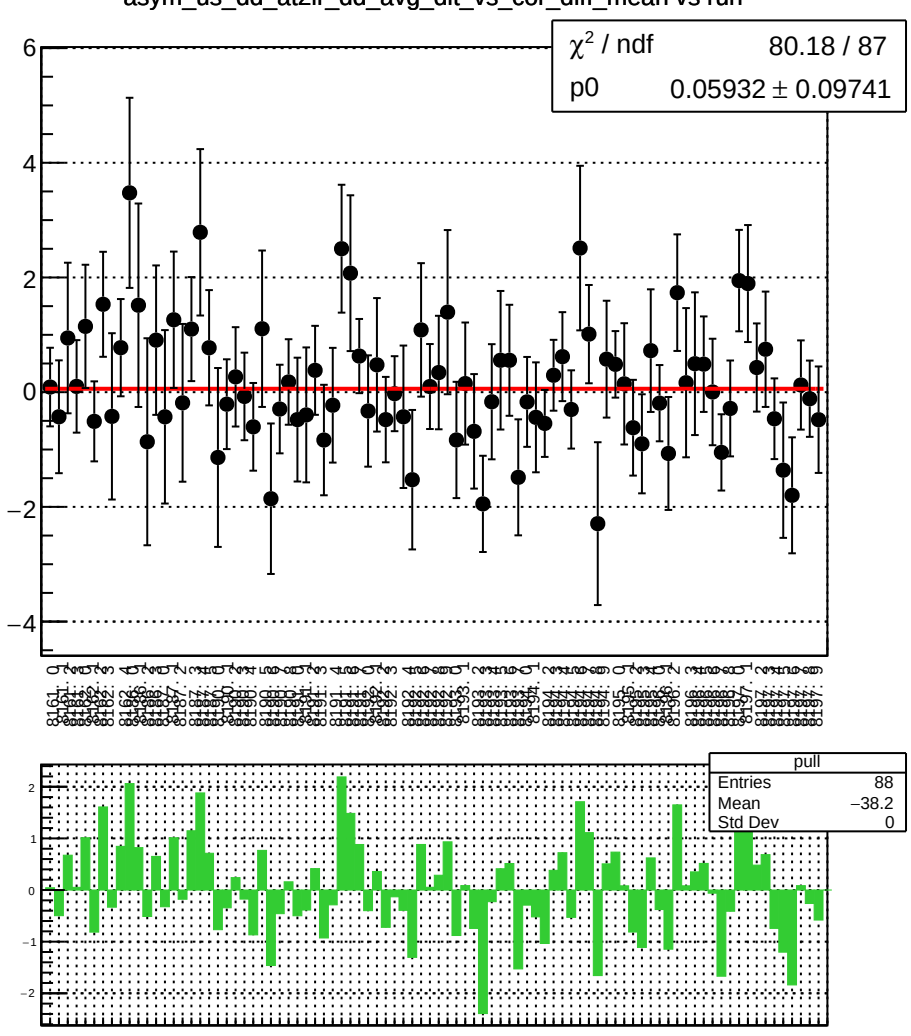

pull1D
Entries 88
Mean 0.00348
Std Dev 0.8766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

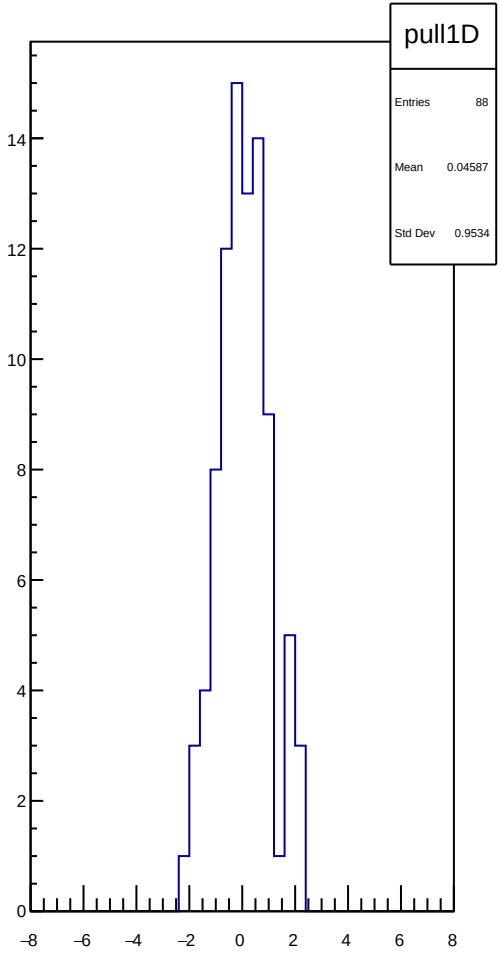

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4622 / 87
p0 4507 ± 3.496
5000
4800
4600
4400
4200
4000
3800

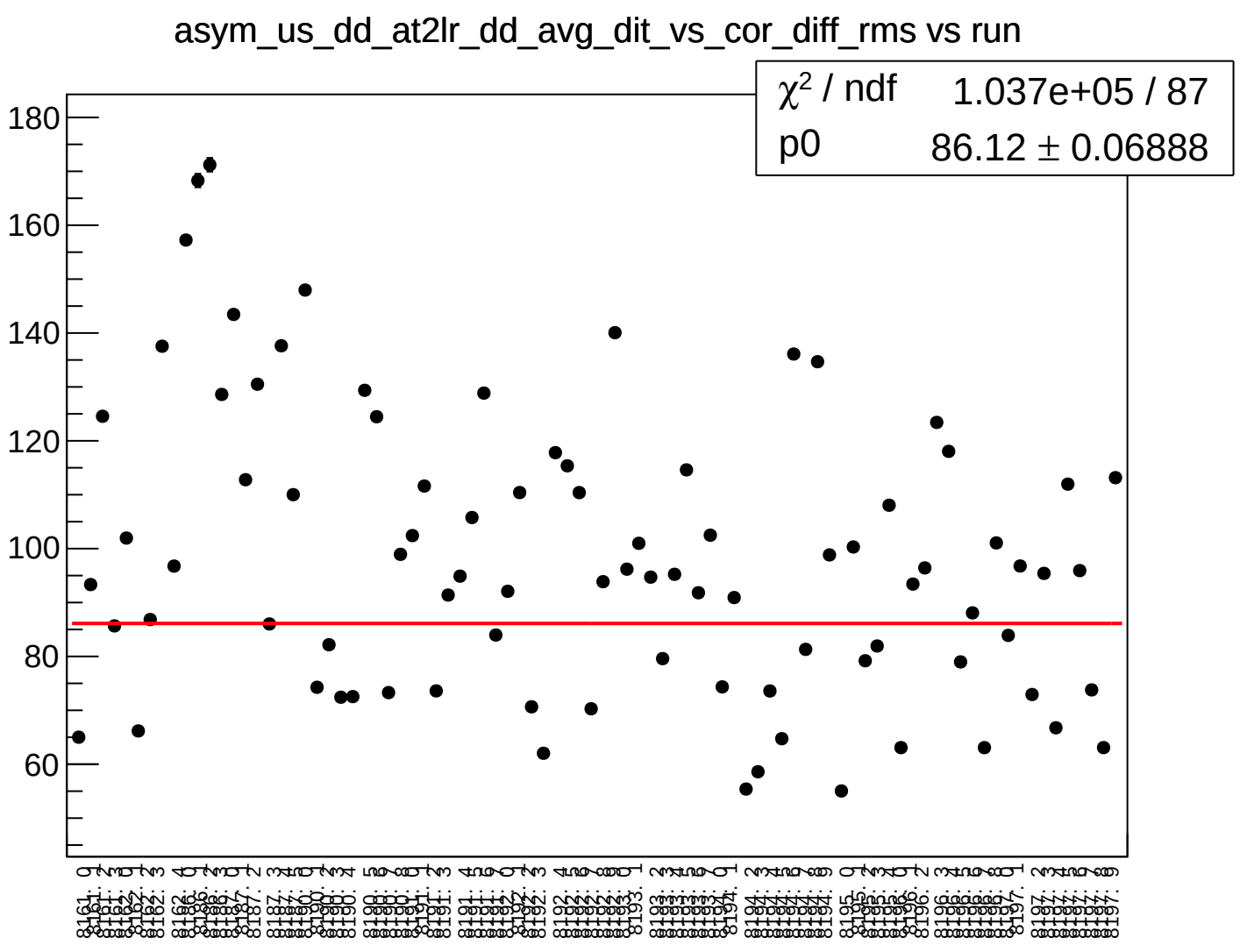

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 87
p0 9.794e−14 ± 2.906e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean −47.46
Std Dev 0
2
1
0
−1
−2

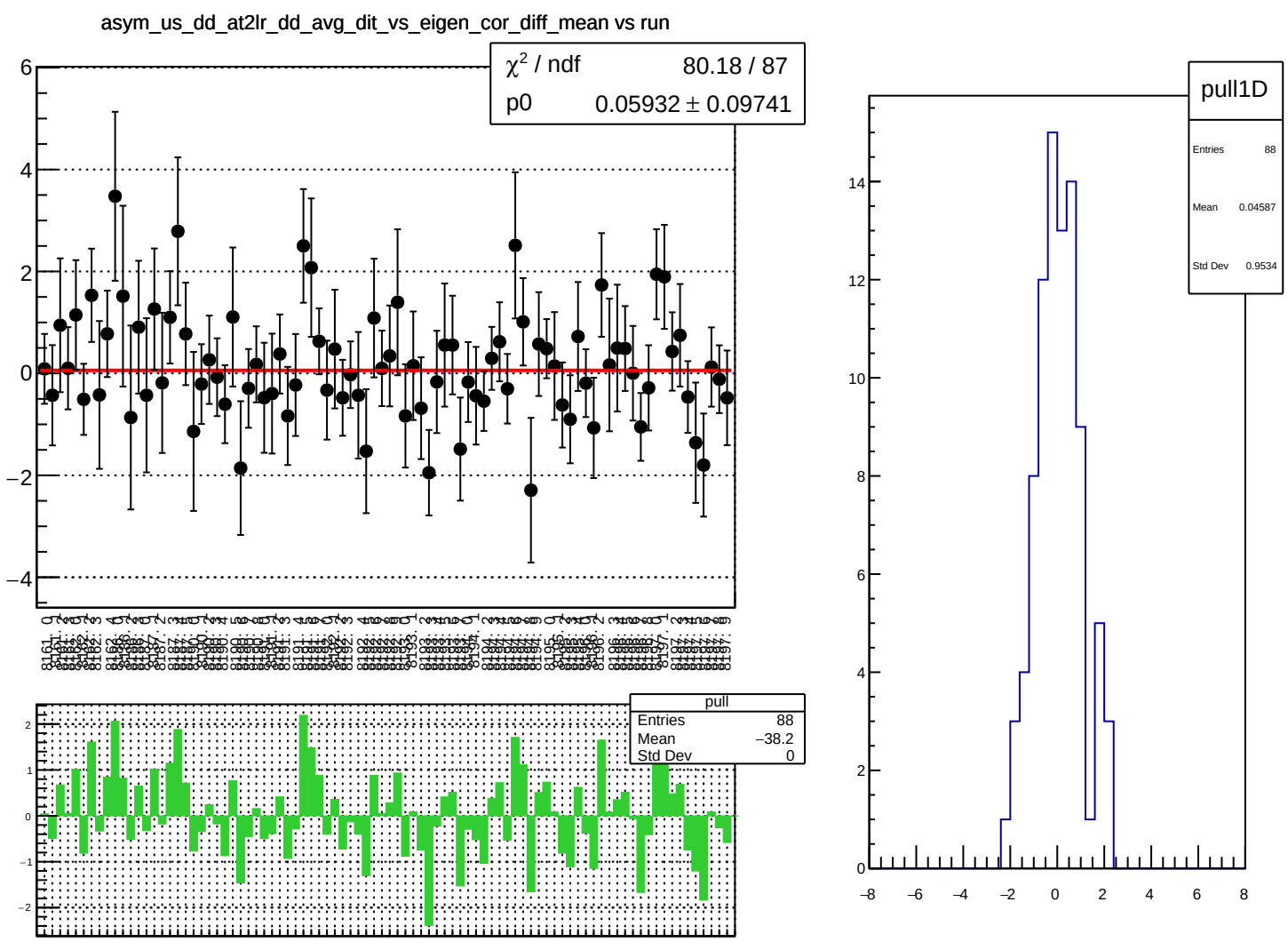

pull1D
Entries 88
Mean 0.03938
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

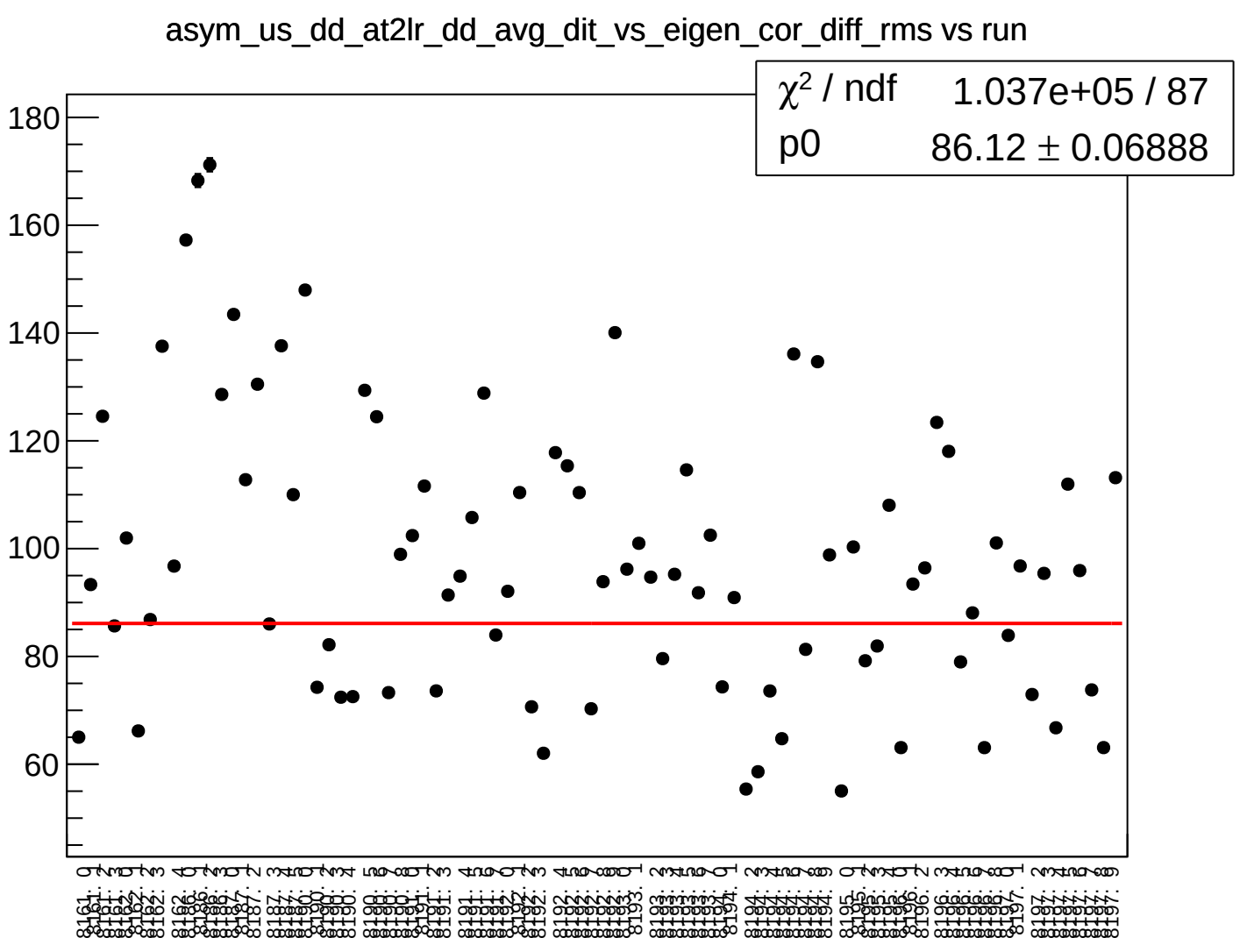

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 87
p0 1.329e−10 ± 2.055e−13
1.2
1
0.8
0.6
0.4
0.2
0

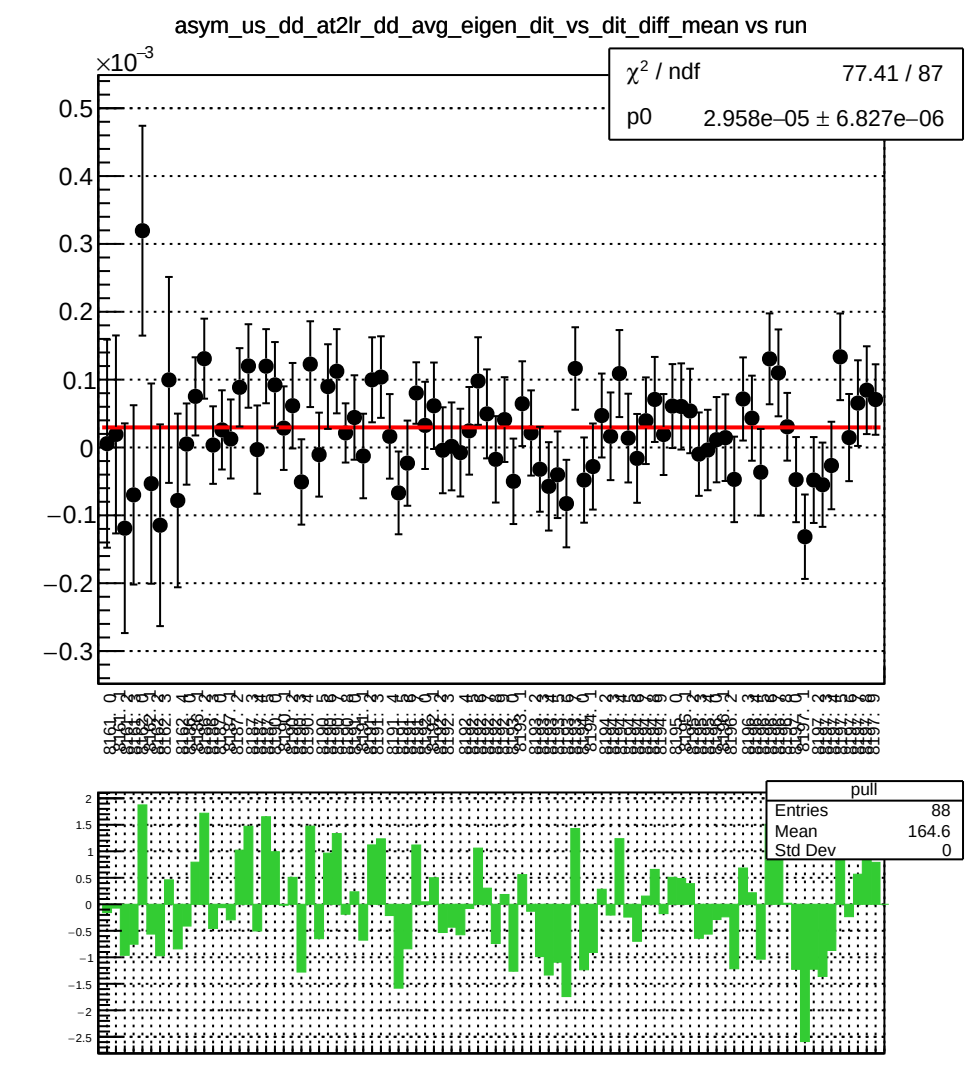

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.18 / 87
p0 0.05932 ± 0.09741
pull
Entries 88
Mean −38.2
Std Dev 0

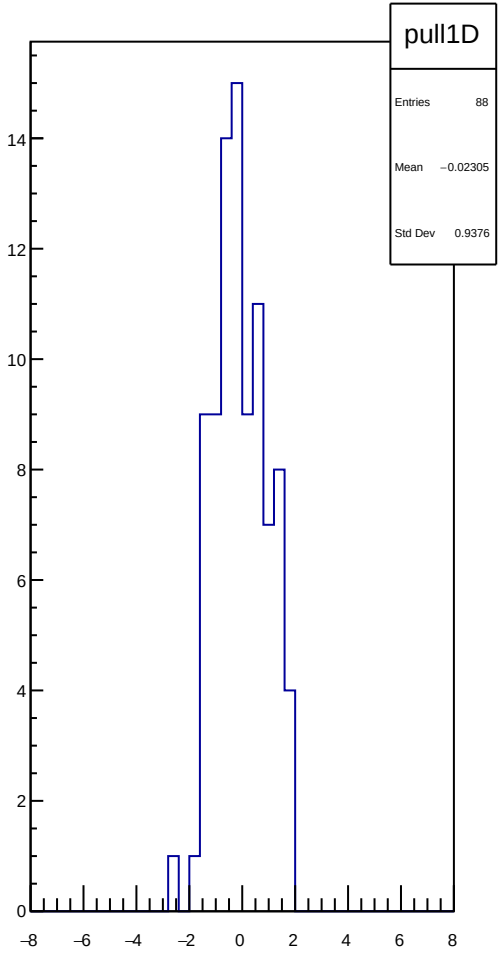

pull1D
Entries 88
Mean 0.04587
Std Dev 0.9534

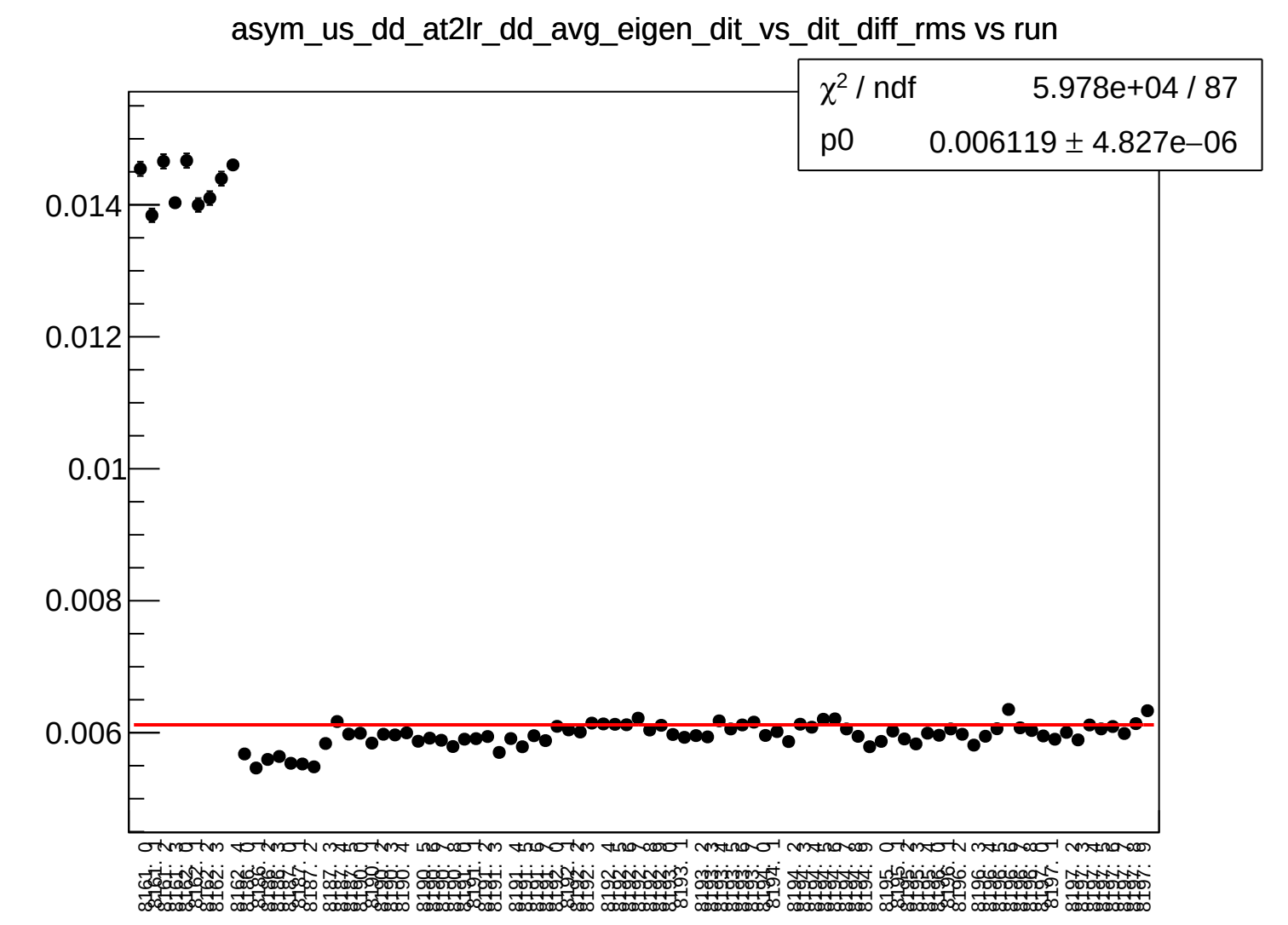

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.037e+05 / 87
p0 86.12 ± 0.06888
180
160
140
120
100
80
60

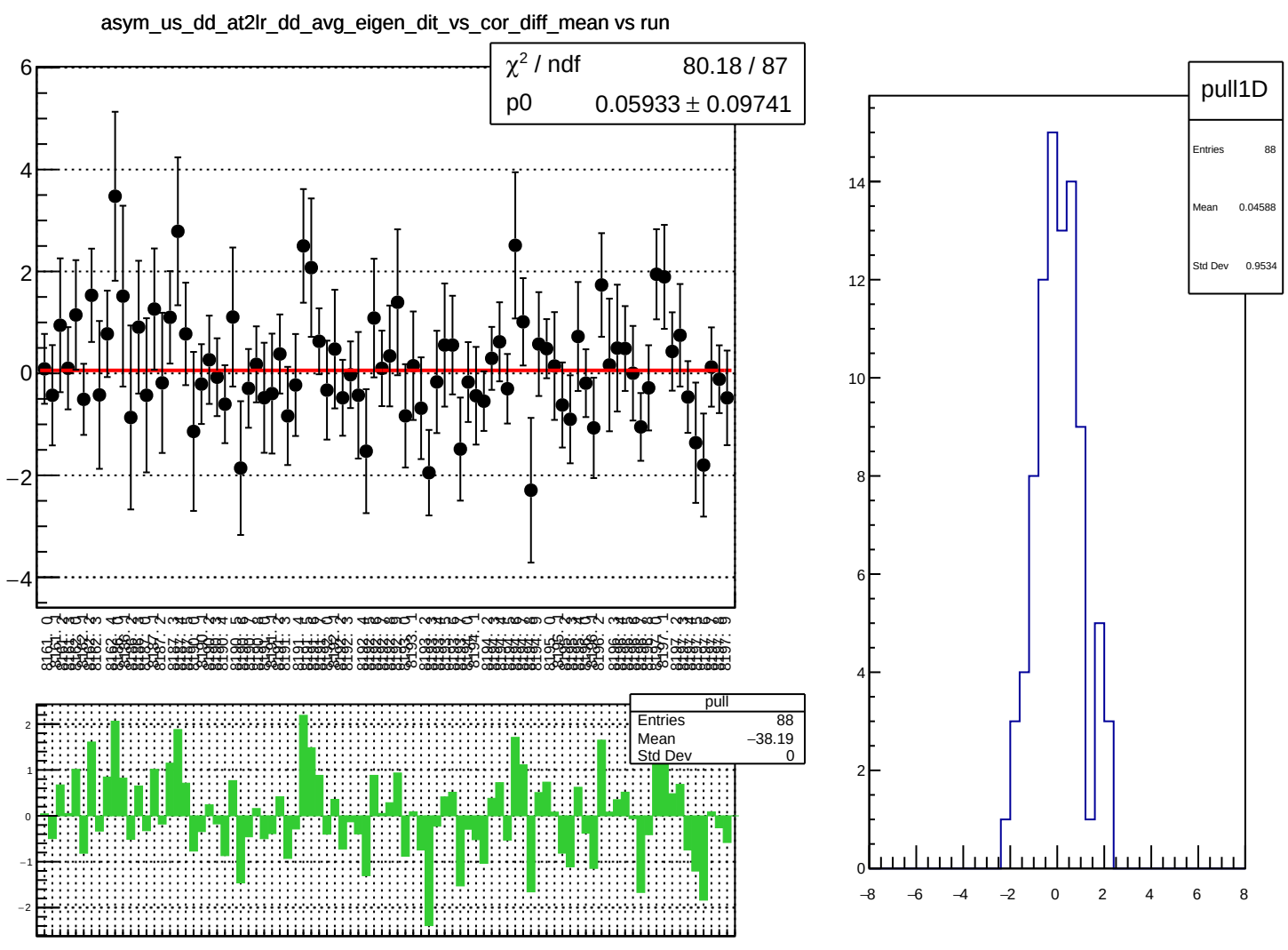

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.18 / 87
p0 0.05932 ± 0.09741
pull
Entries 88
Mean −38.2
Std Dev 0
pull1D
Entries 88
Mean 0.04587
Std Dev 0.9534

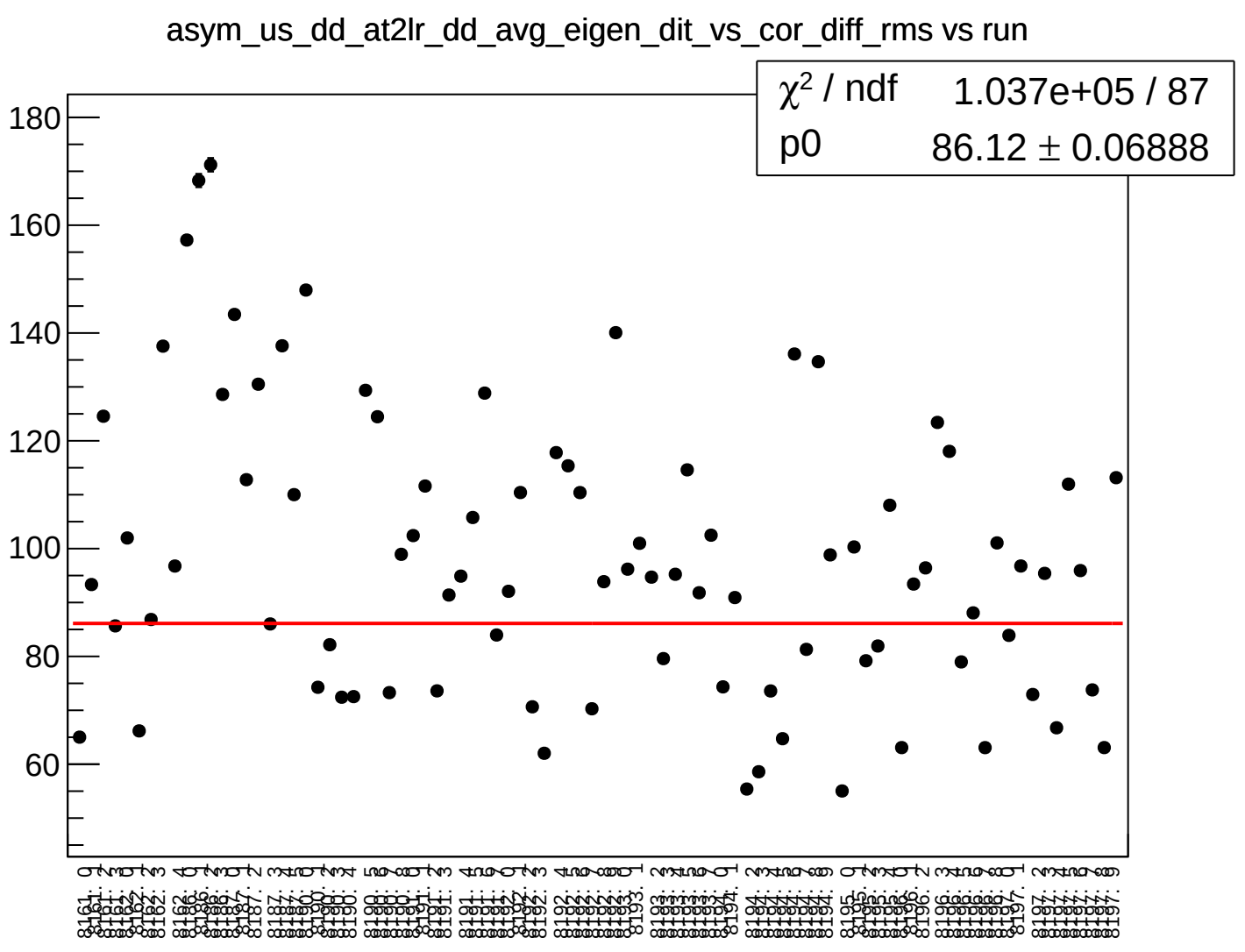

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.037e+05 / 87
p0 86.12 ± 0.06888
180
160
140
120
100
80
60

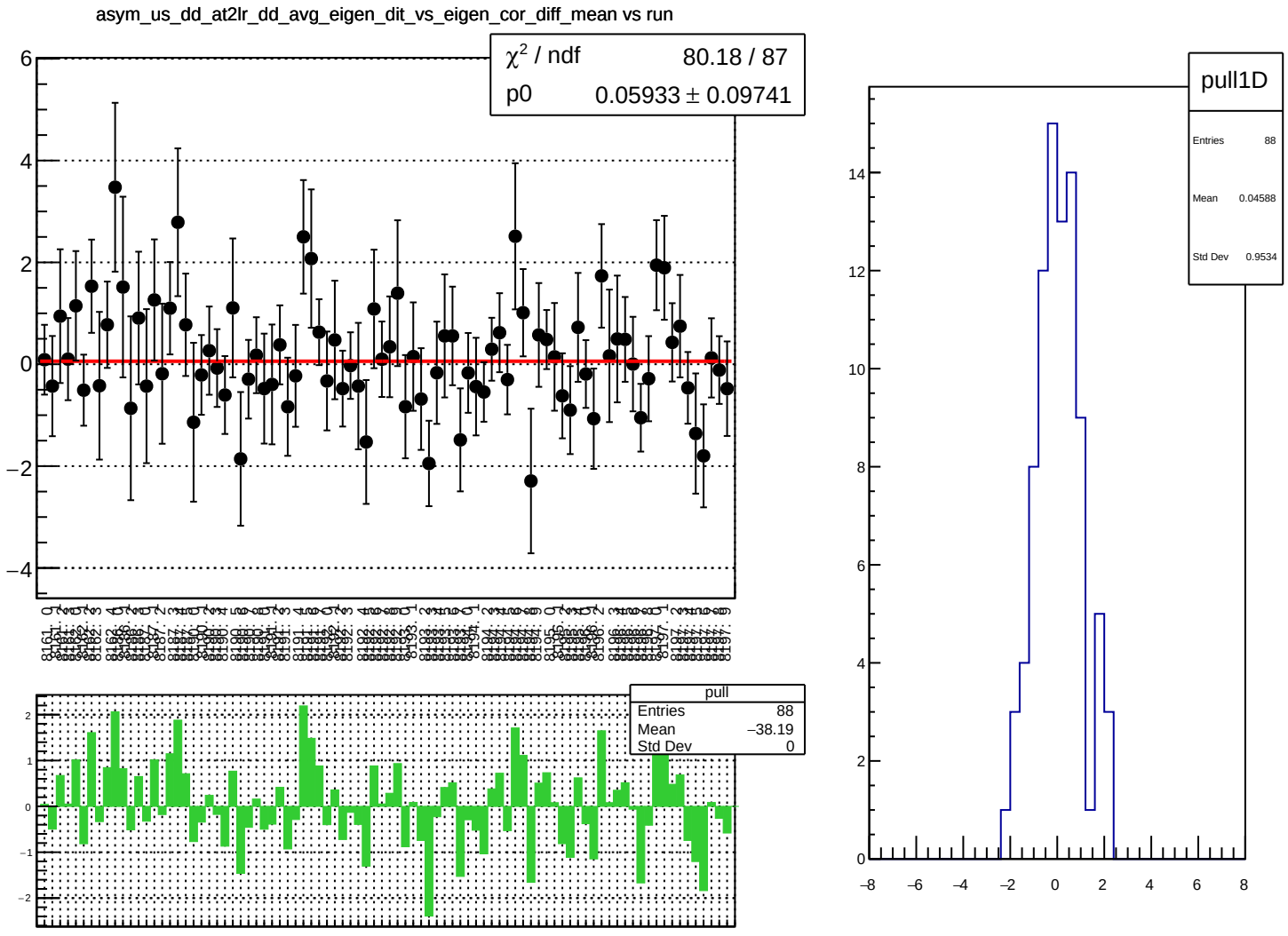

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.41 / 87
p0 2.958e−05 ± 6.827e−06
pull
Entries 88
Mean 164.6
Std Dev 0

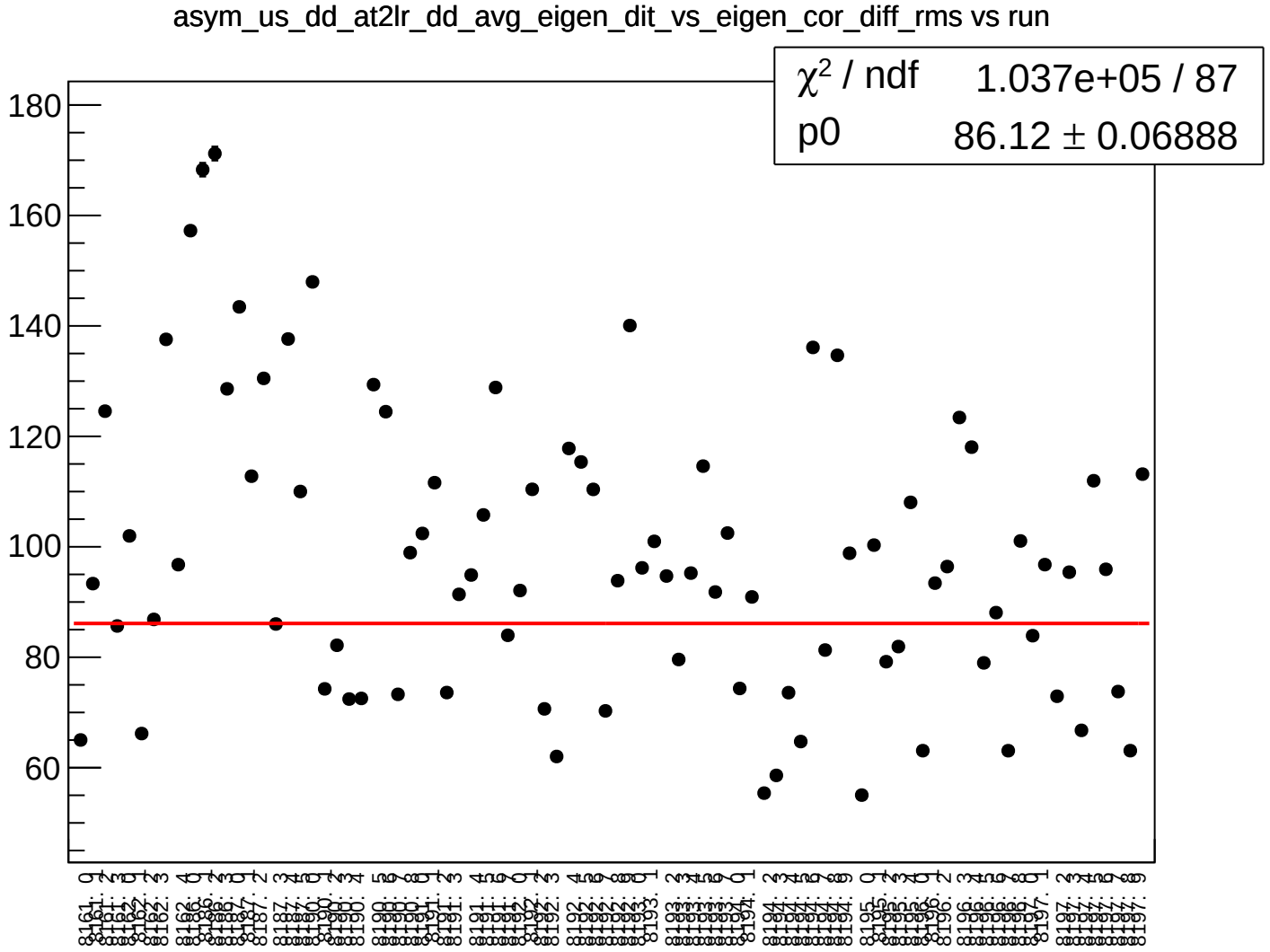

pull1D
Entries 88
Mean −0.02305
Std Dev 0.9376

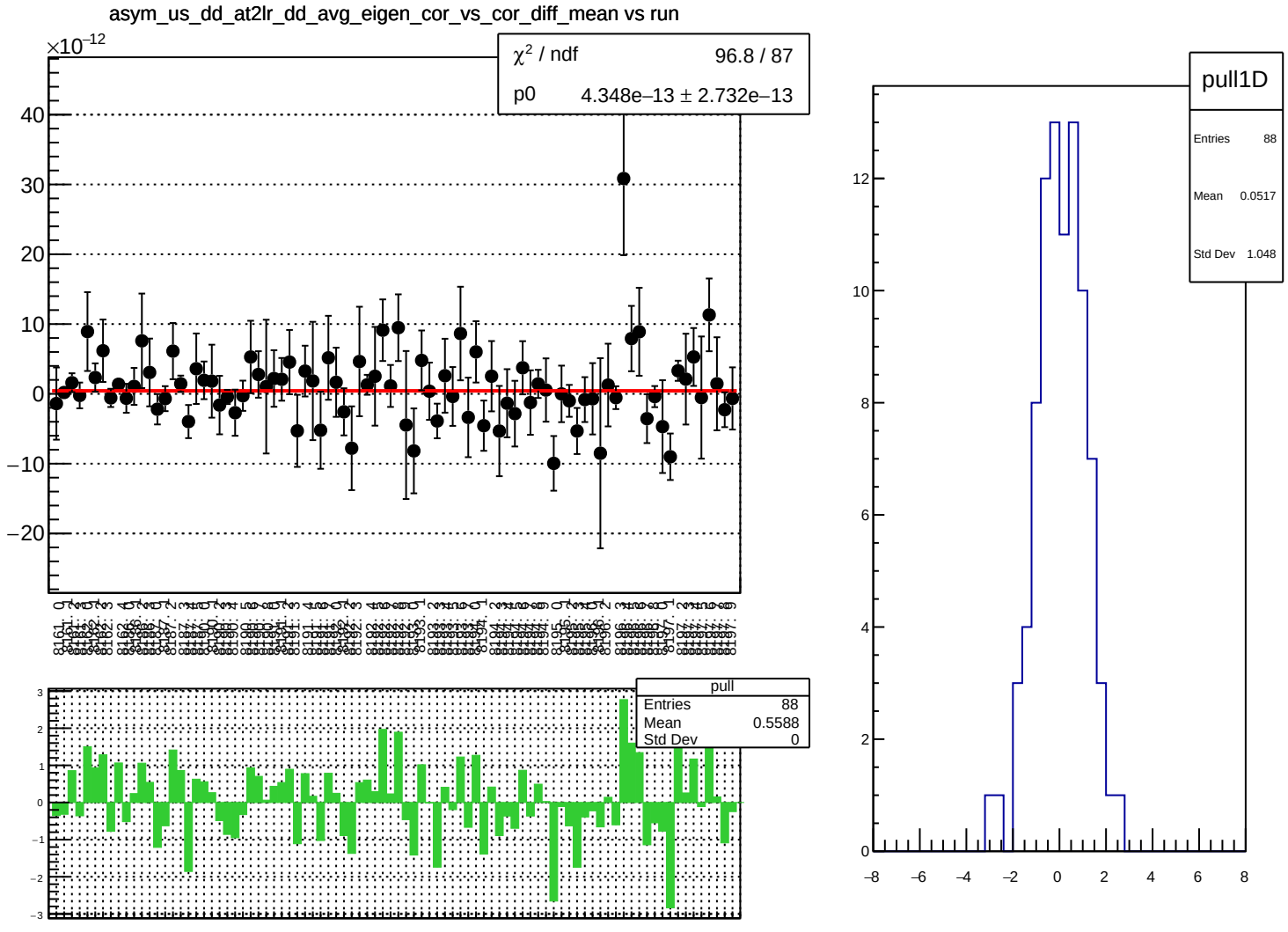

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.978e+04 / 87
p0 0.006119 ± 4.827e−06
0.014
0.012
0.01
0.008
0.006

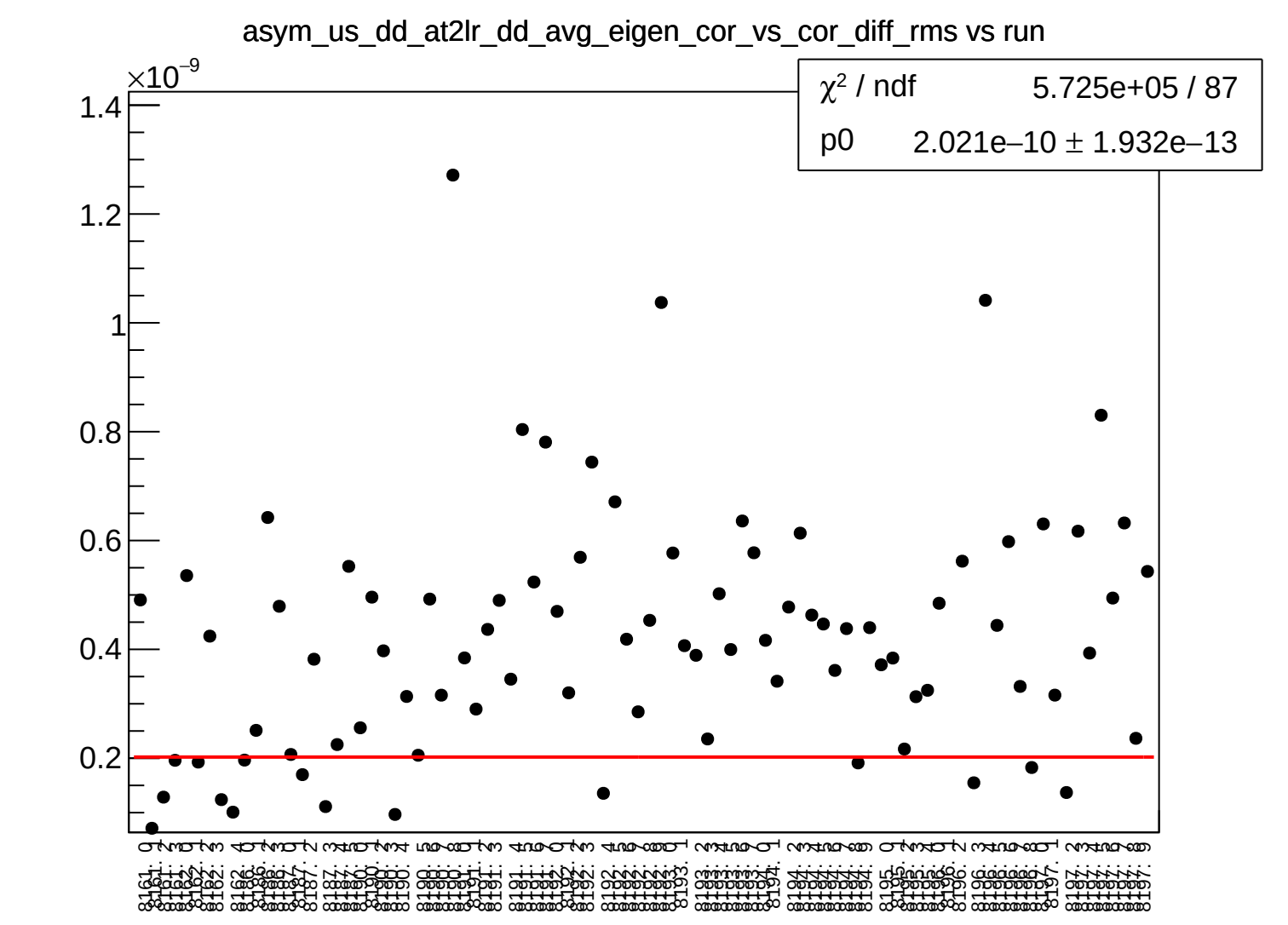

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.18 / 87
p0 0.05933 ± 0.09741
pull
Entries 88
Mean −38.19
Std Dev 0
pull1D
Entries 88
Mean 0.04588
Std Dev 0.9534

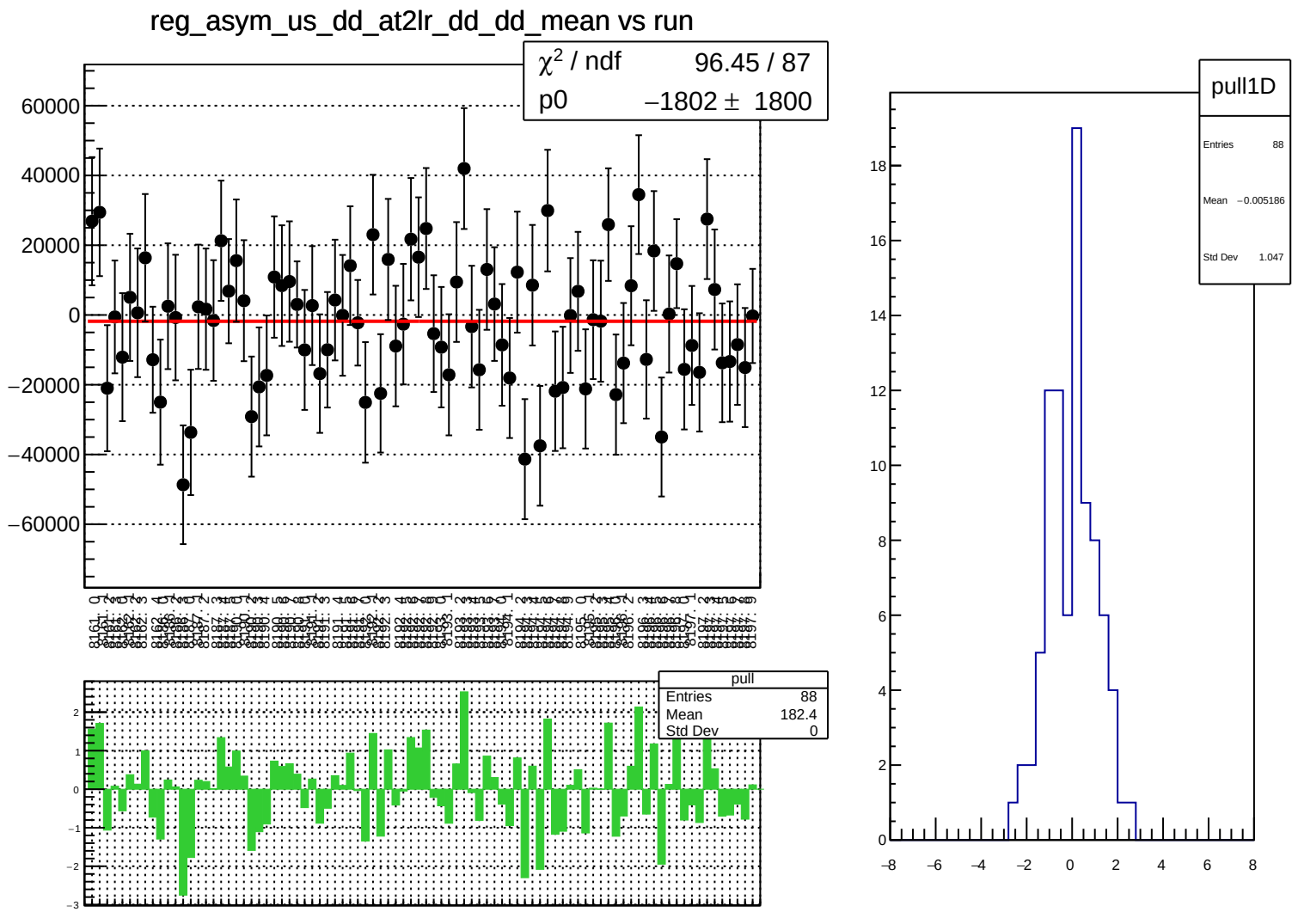

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.037e+05 / 87
p0 86.12 ± 0.06888
180
160
140
120
100
80
60

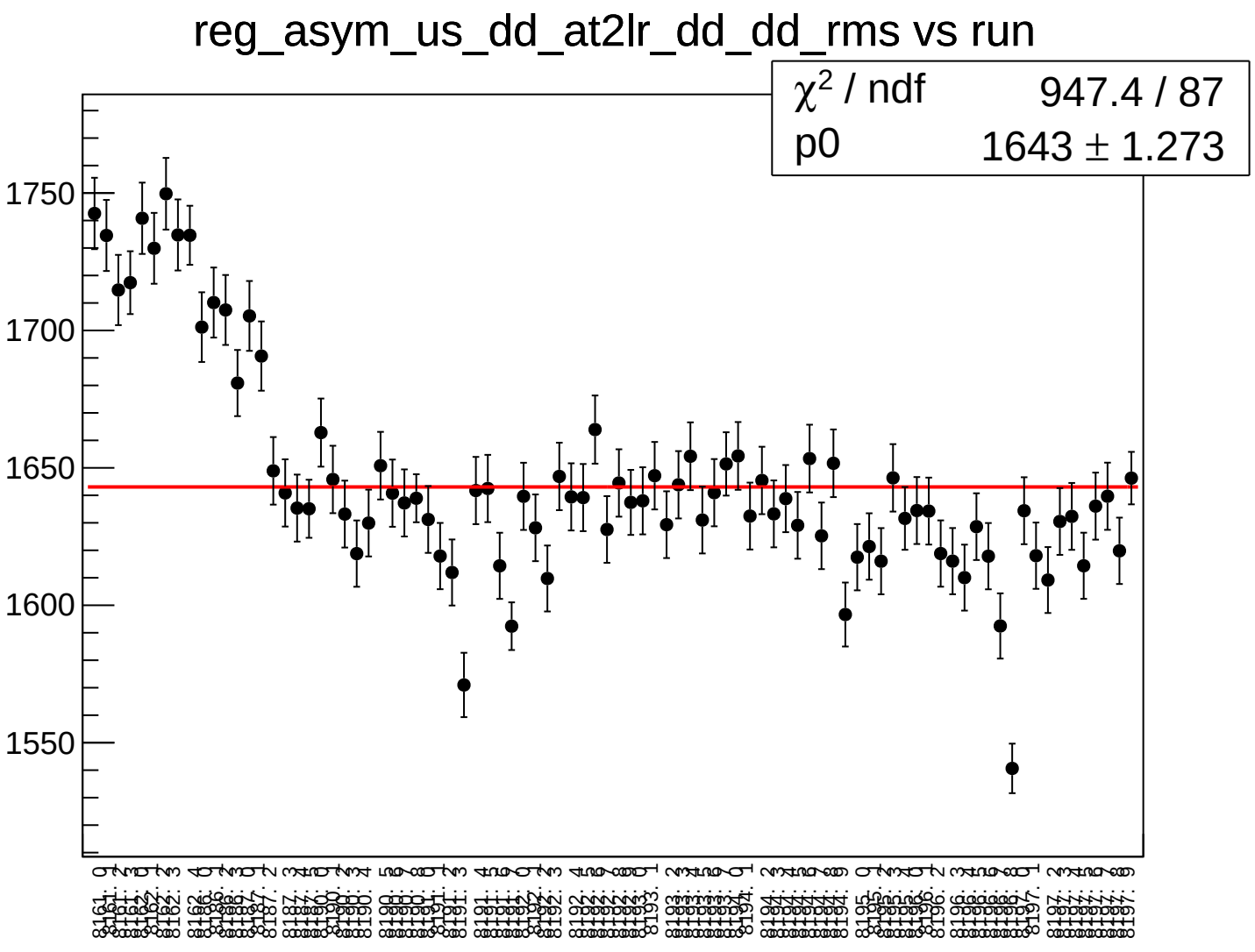

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.18 / 87
p0 0.05933 ± 0.09741
pull
Entries 88
Mean −38.19
Std Dev 0
pull1D
Entries 88
Mean 0.04588
Std Dev 0.9534

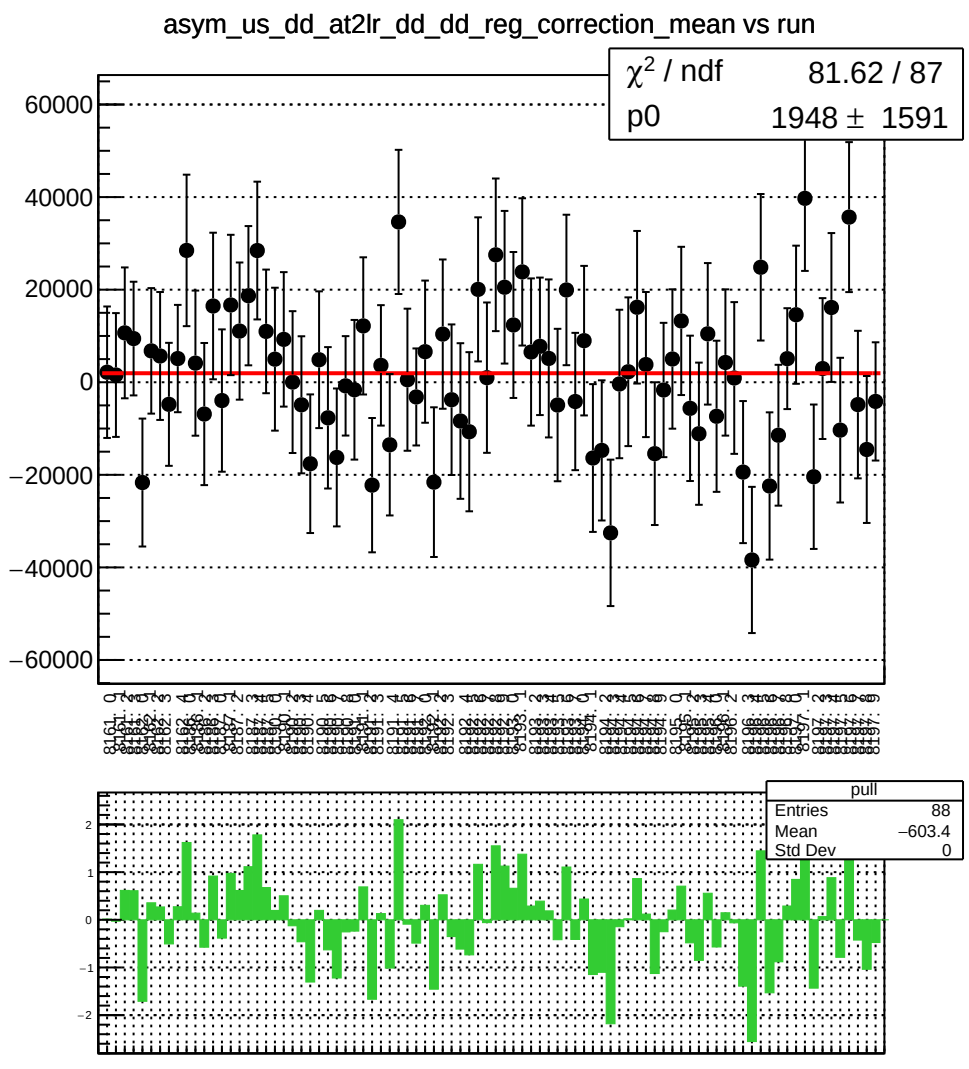

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.037e+05 / 87
p0 86.12 ± 0.06888
180
160
140
120
100
80
60

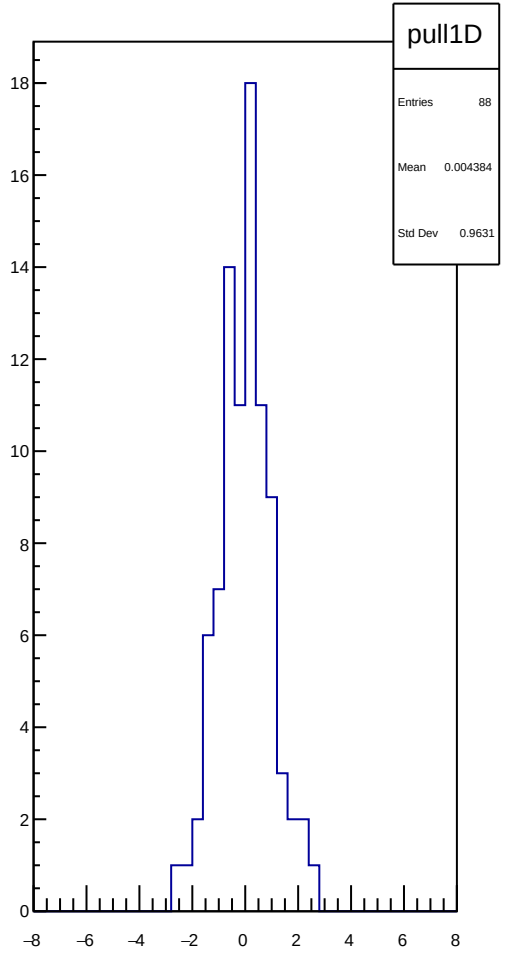

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.8 / 87
p0 4.348e−13 ± 2.732e−13
40
30
20
10
0
−10
−20
pull
Entries 88
Mean 0.5588
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0517
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

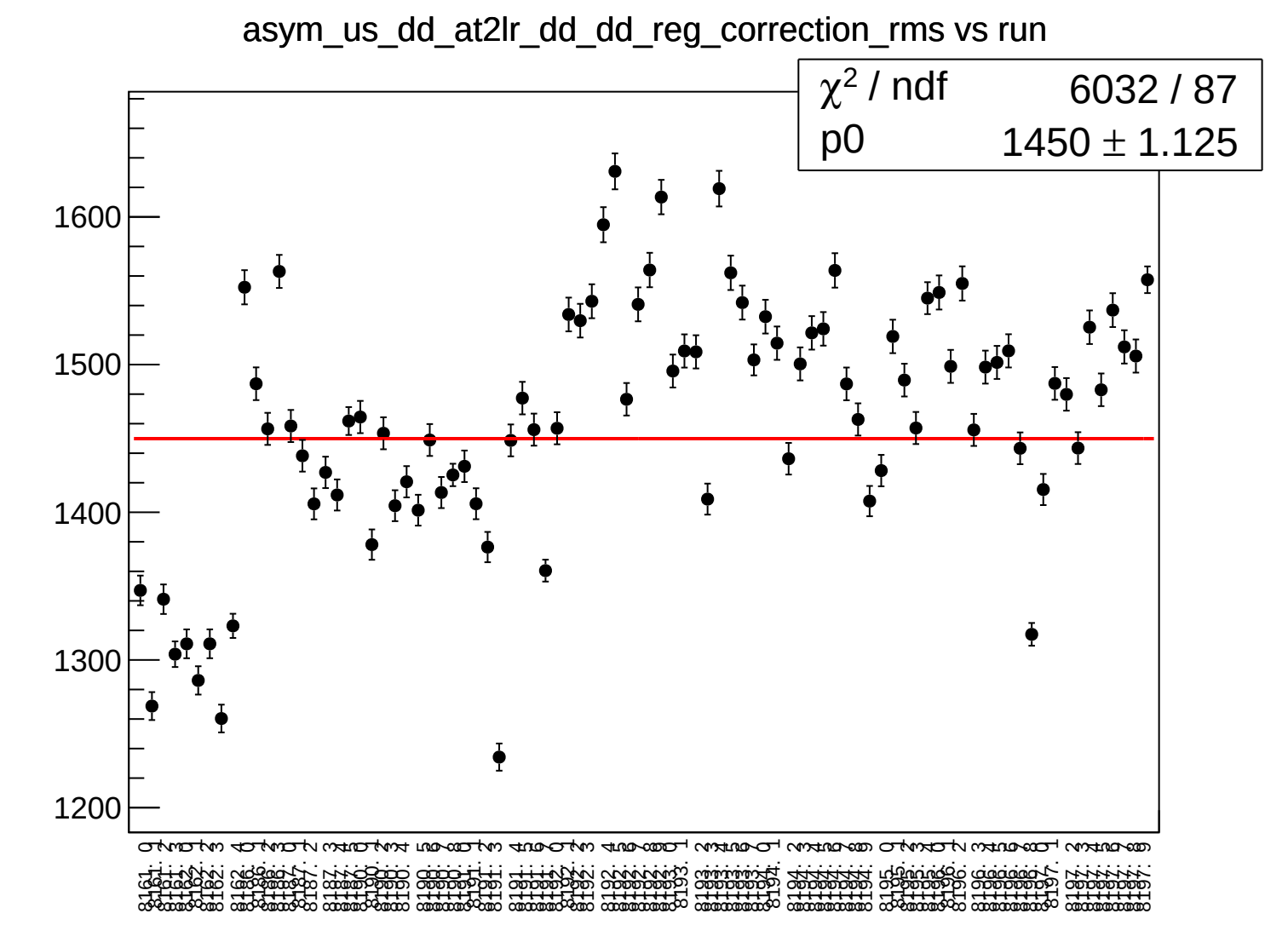

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.725e+05 / 87
p0 2.021e−10 ± 1.932e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

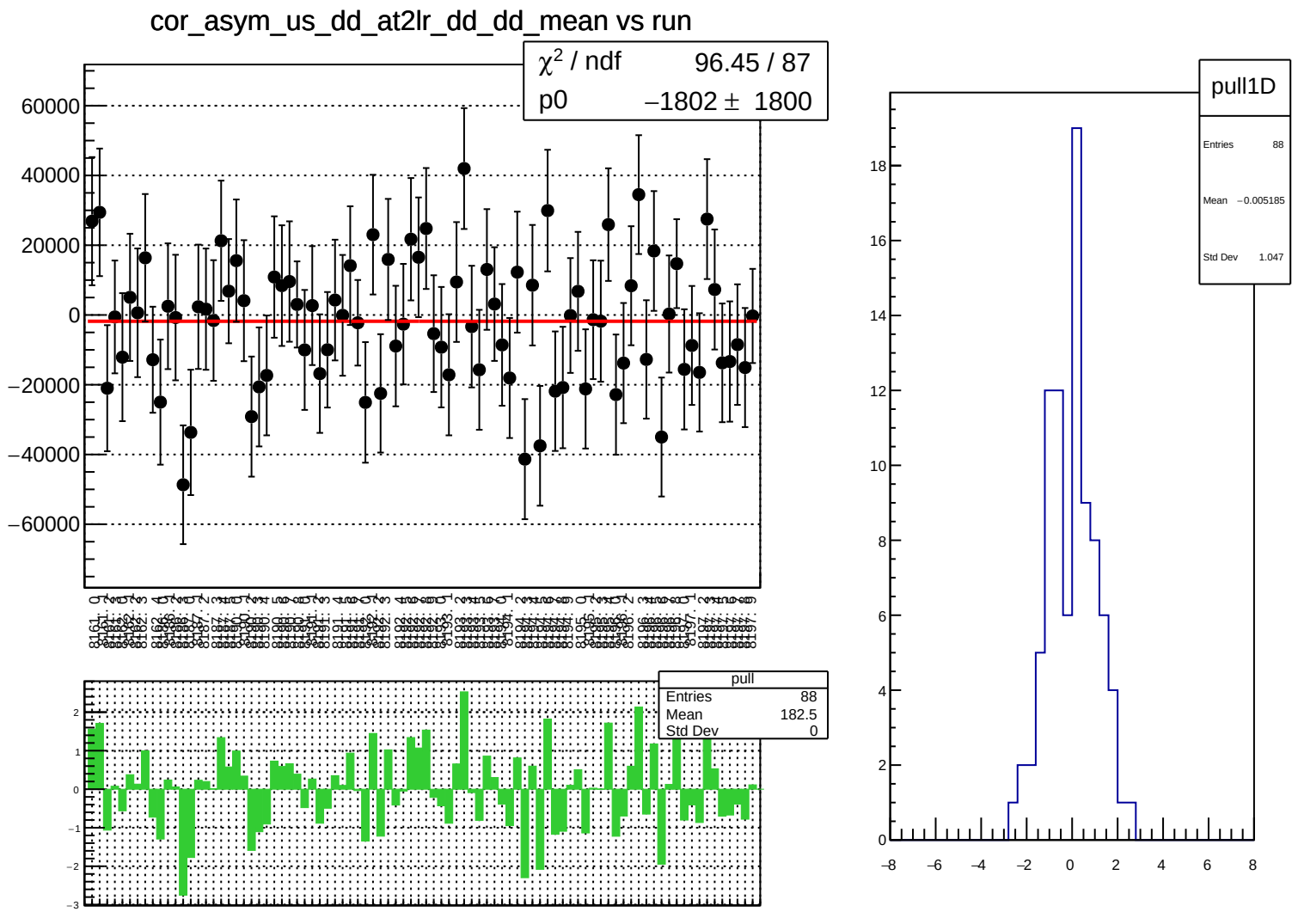

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 96.45 / 87
p0 −1802 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 182.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.005186
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

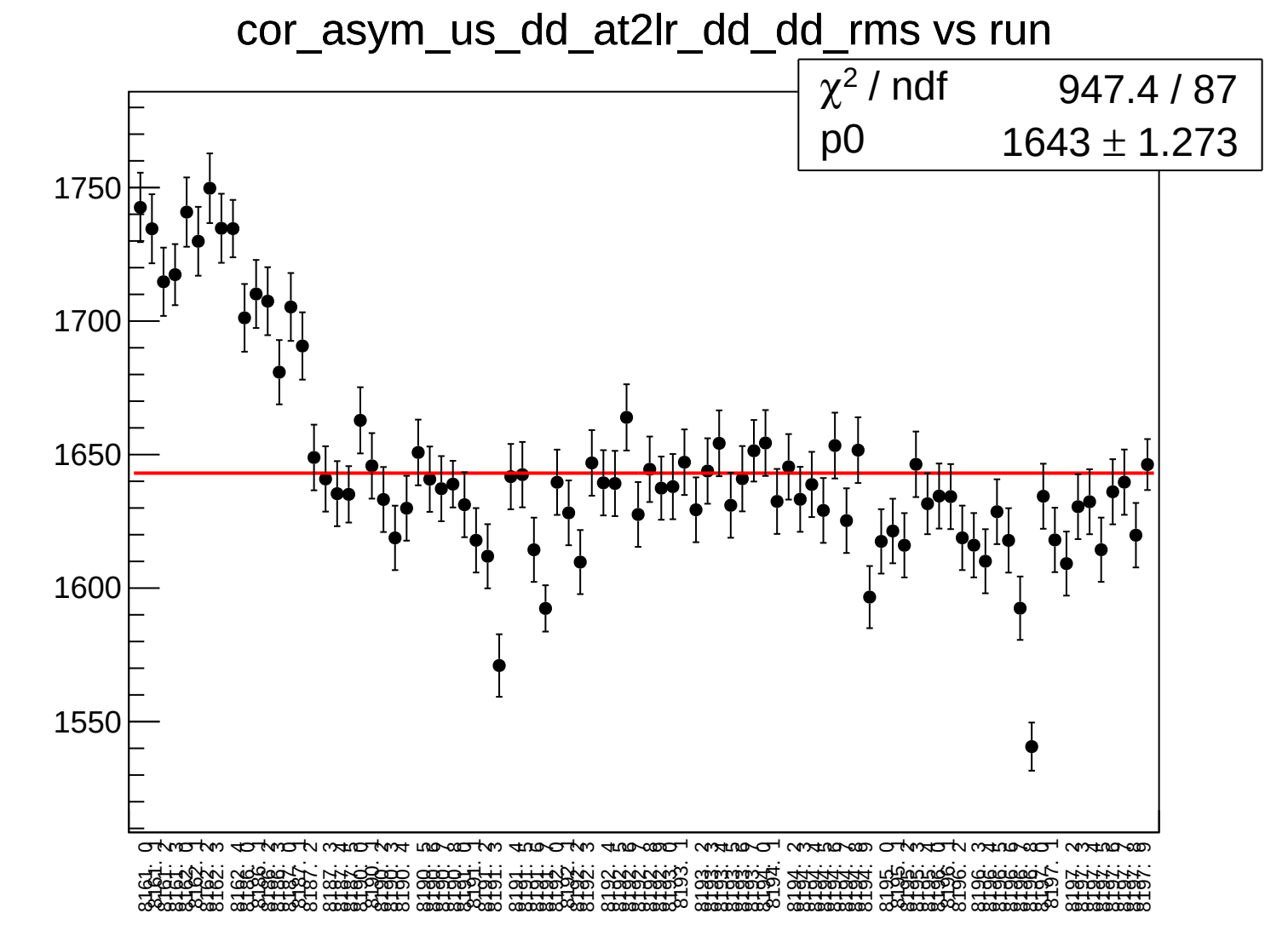

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 947.4 / 87
p0 1643 ± 1.273
1750
1700
1650
1600
1550

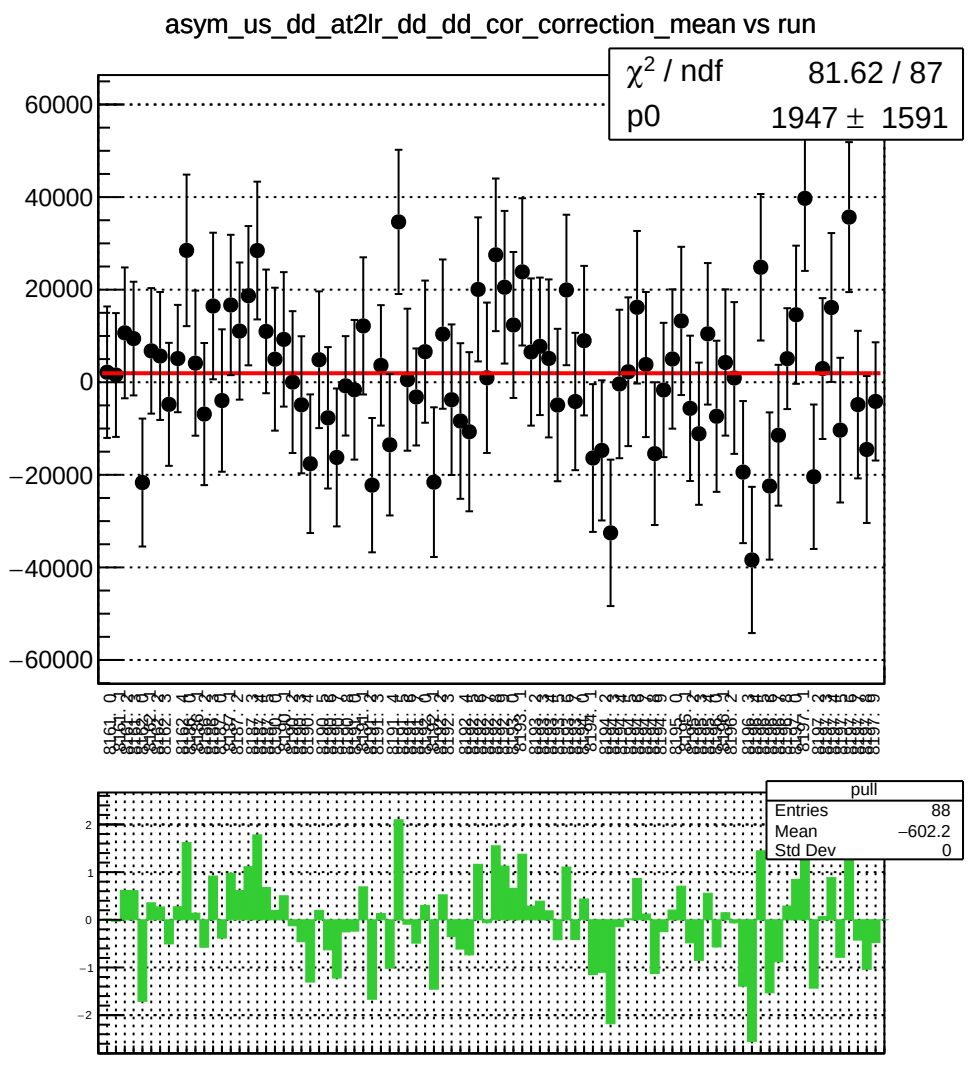

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 81.62 / 87
p0 1948 ± 1591
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −603.4
Std Dev 0
2
1
0
−1
−2

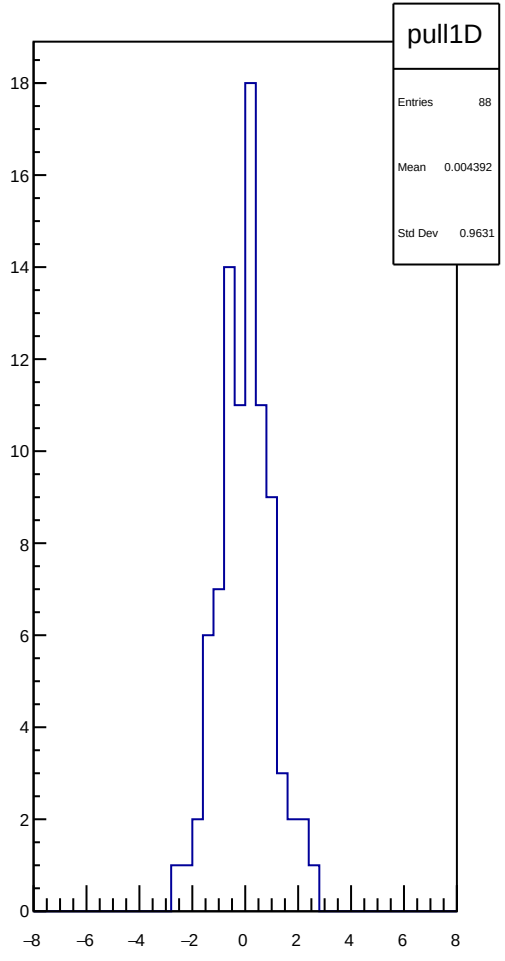

pull1D
Entries 88
Mean 0.004384
Std Dev 0.9631
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

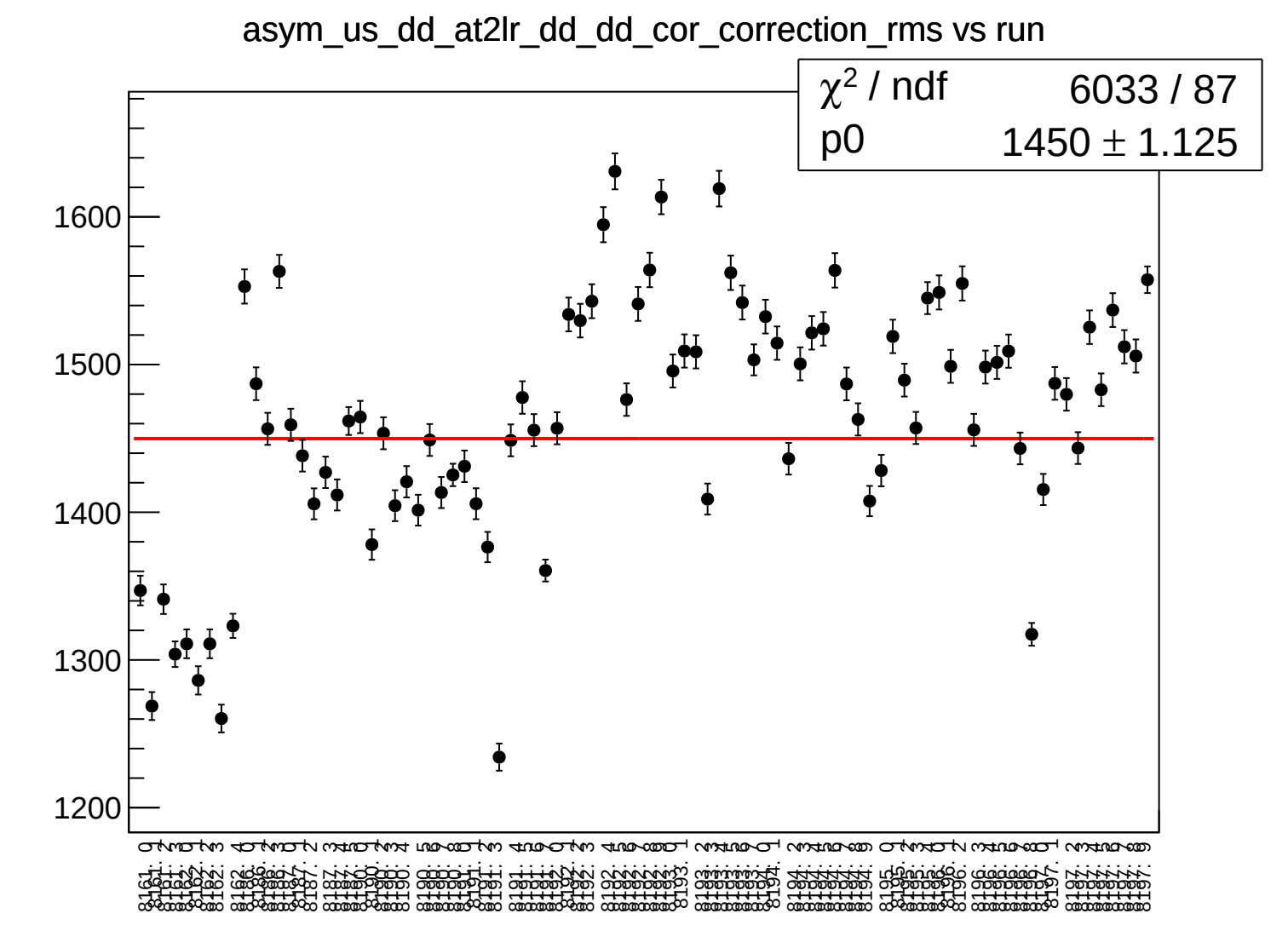

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6032 / 87
p0 1450 ± 1.125
1600
1500
1400
1300
1200

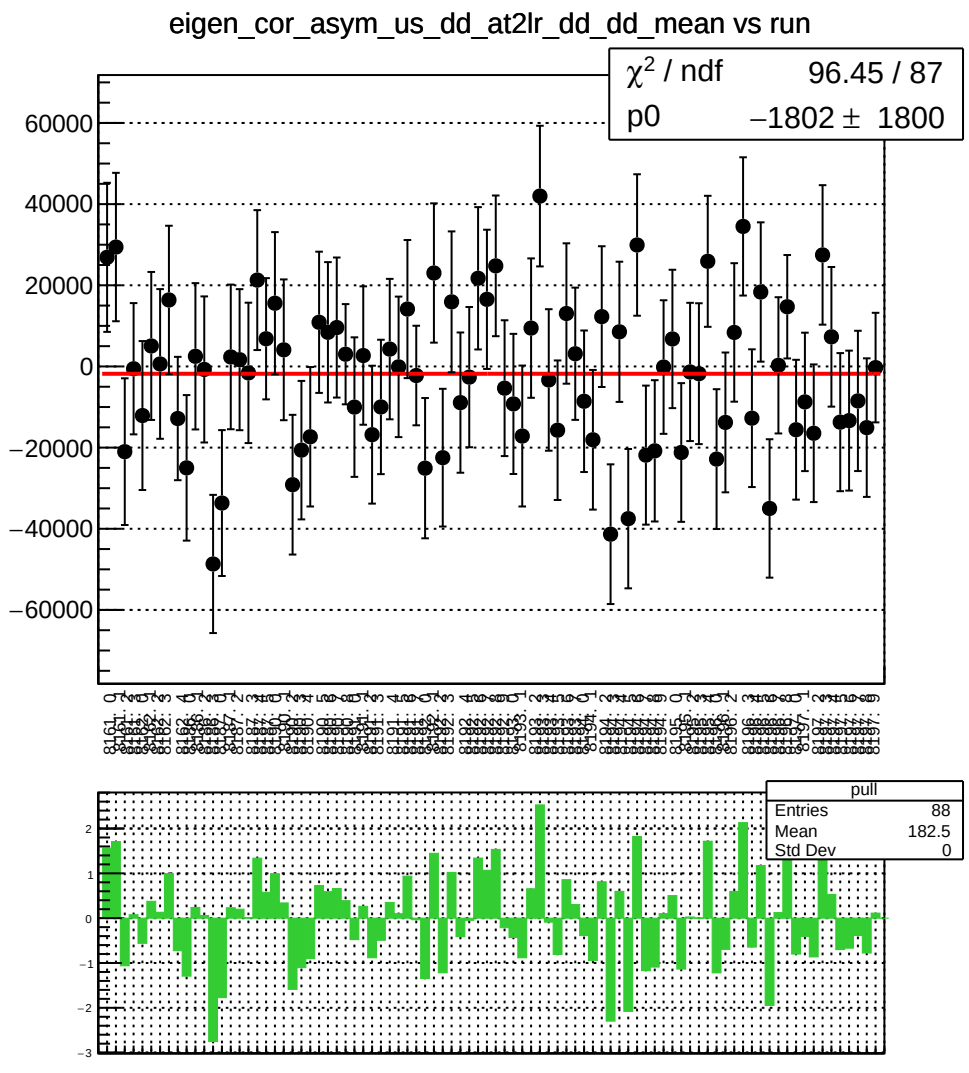

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 96.45 / 87
p0 −1802 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 182.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.005185
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

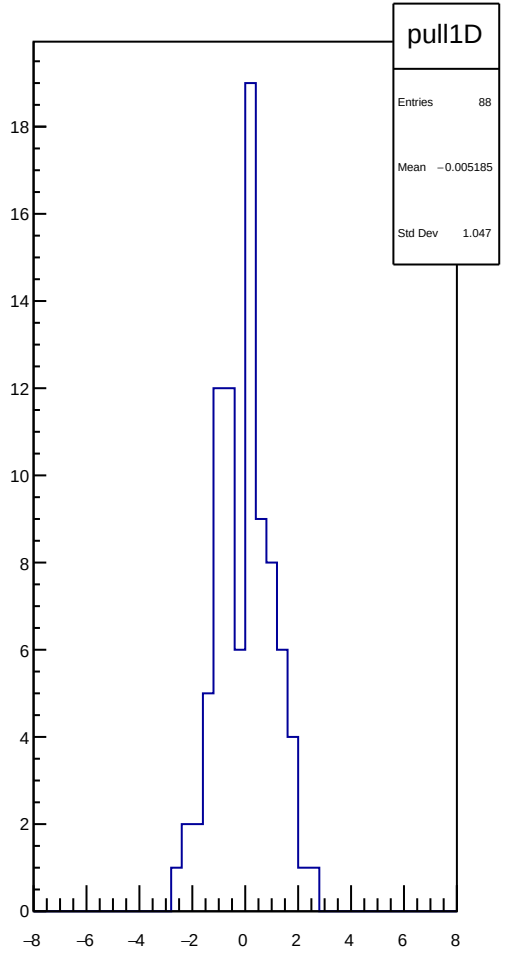

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 947.4 / 87
p0 1643 ± 1.273
1750
1700
1650
1600
1550


asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 81.62 / 87
p0 1947 ± 1591
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −602.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.004392
Std Dev 0.9631
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6033 / 87
p0 1450 ± 1.125
1600
1500
1400
1300
1200


eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 96.45 / 87
p0 −1802 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 182.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean −0.005185
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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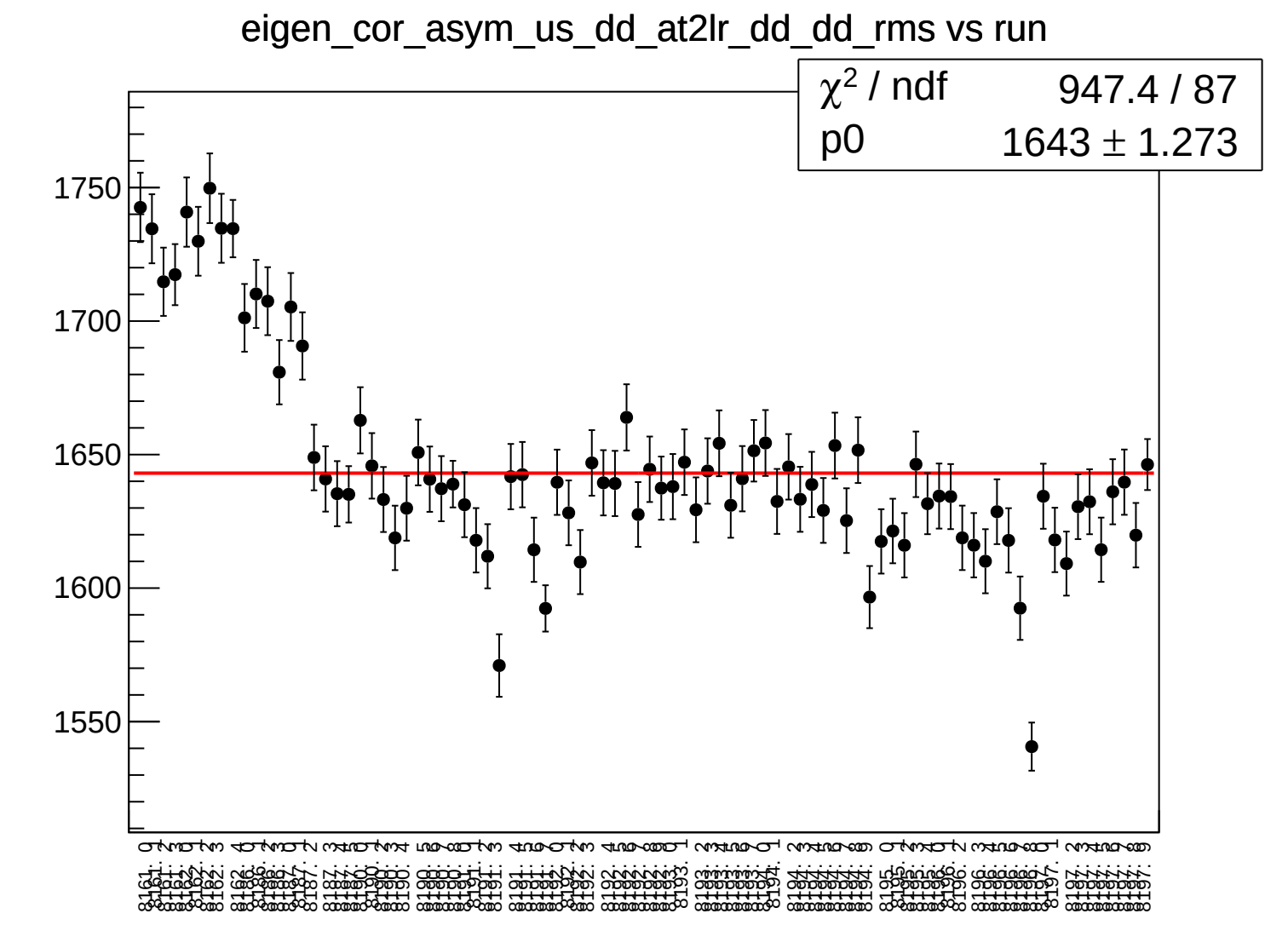
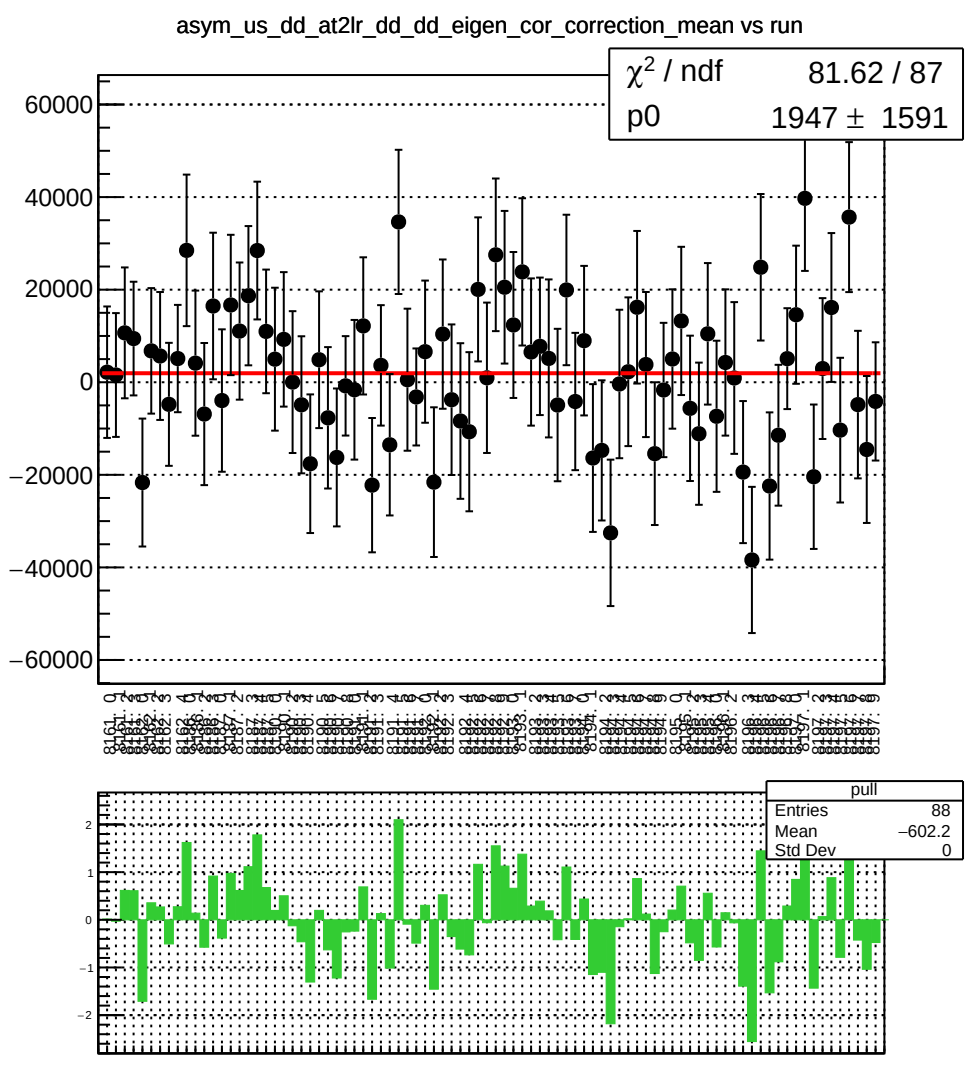
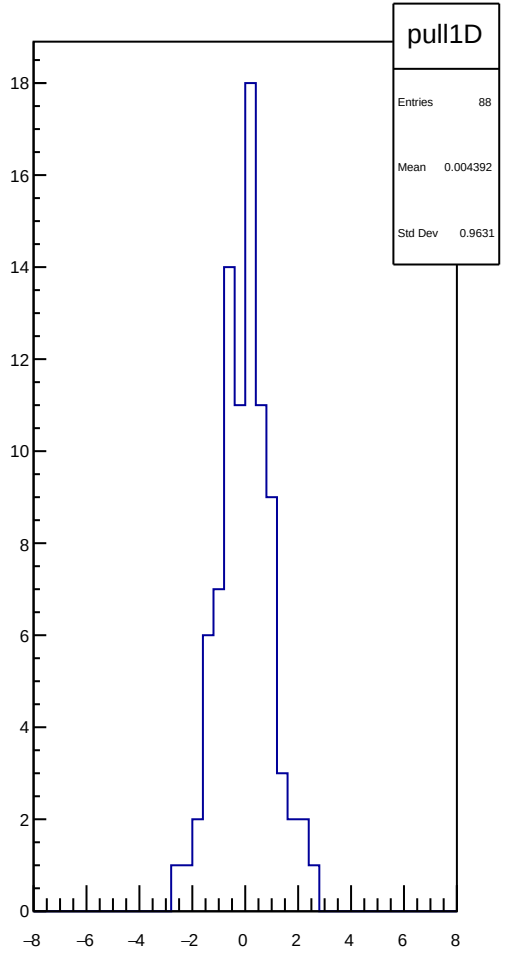
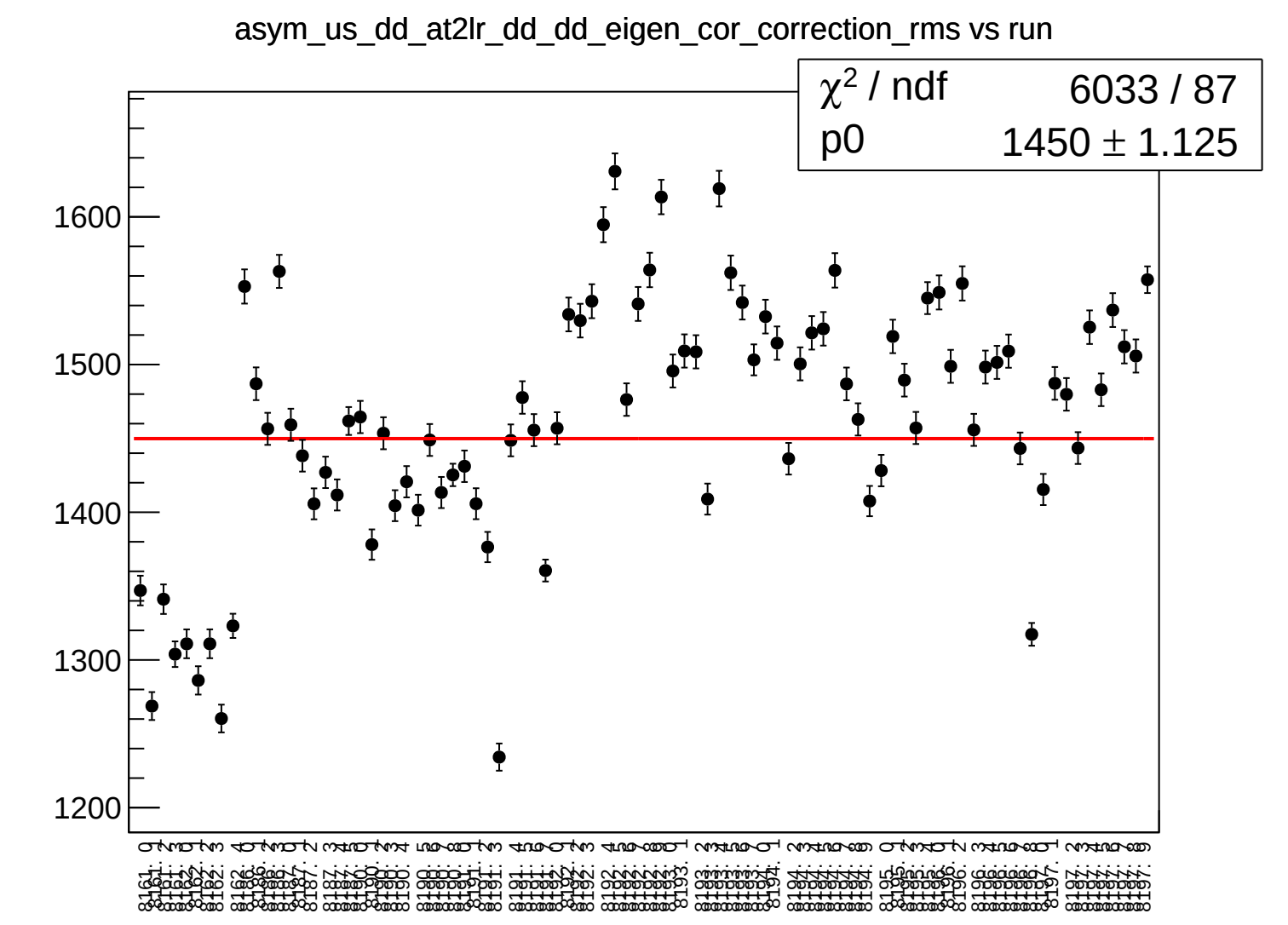
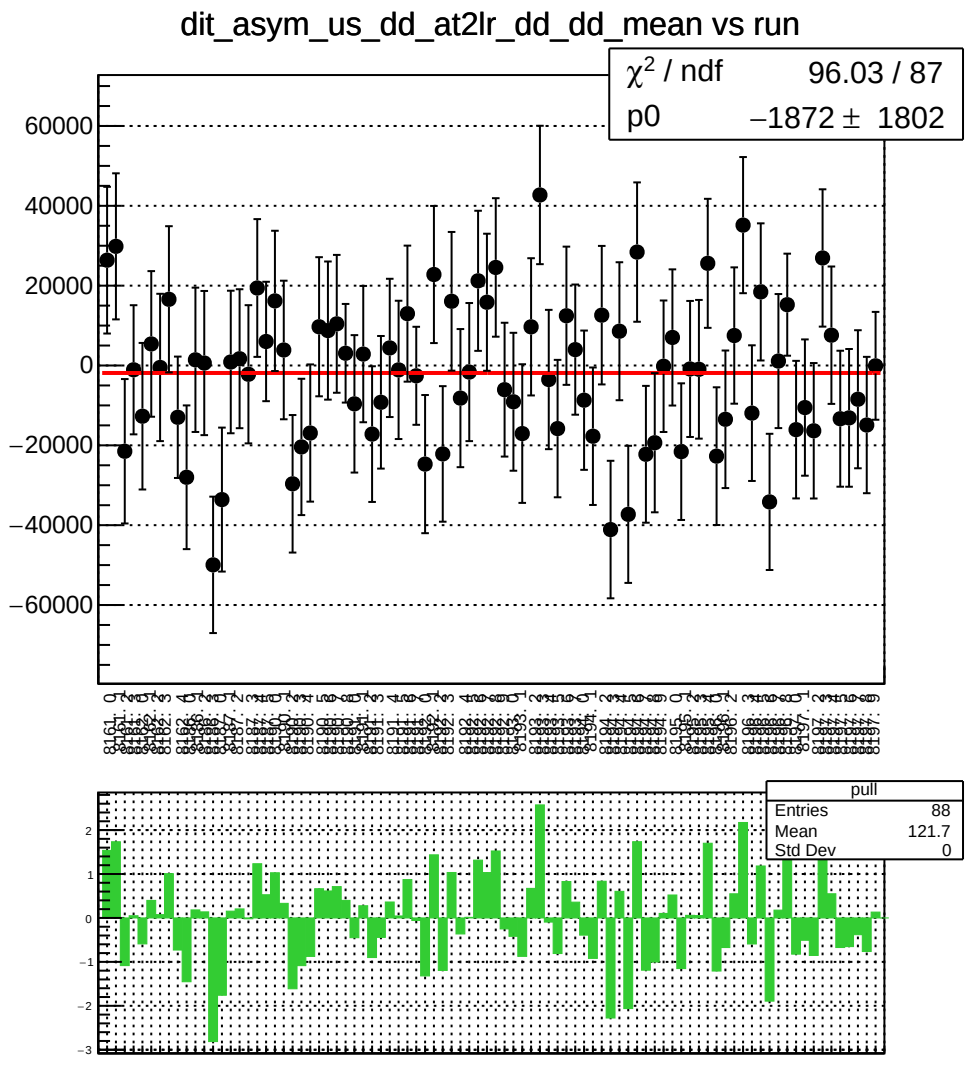
0
2
4
6
8

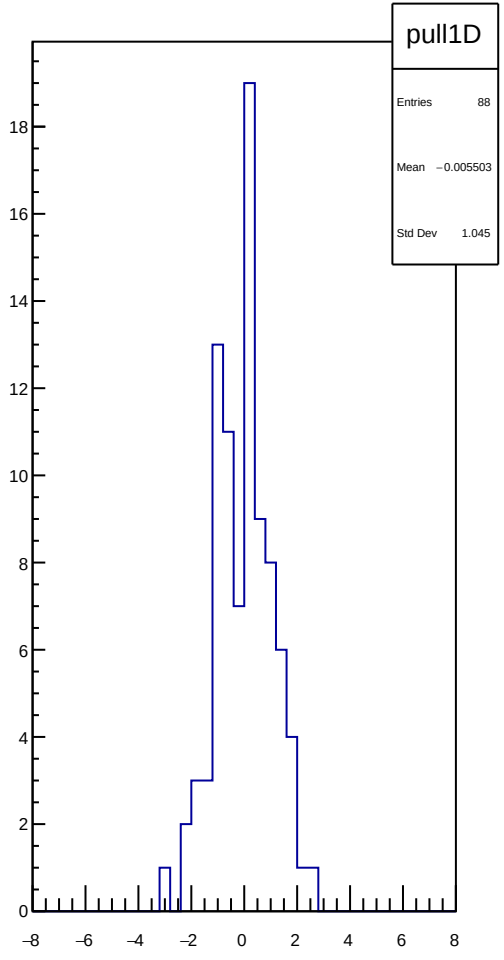

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 947.4 / 87
p0 1643 ± 1.273
1750
1700
1650
1600
1550

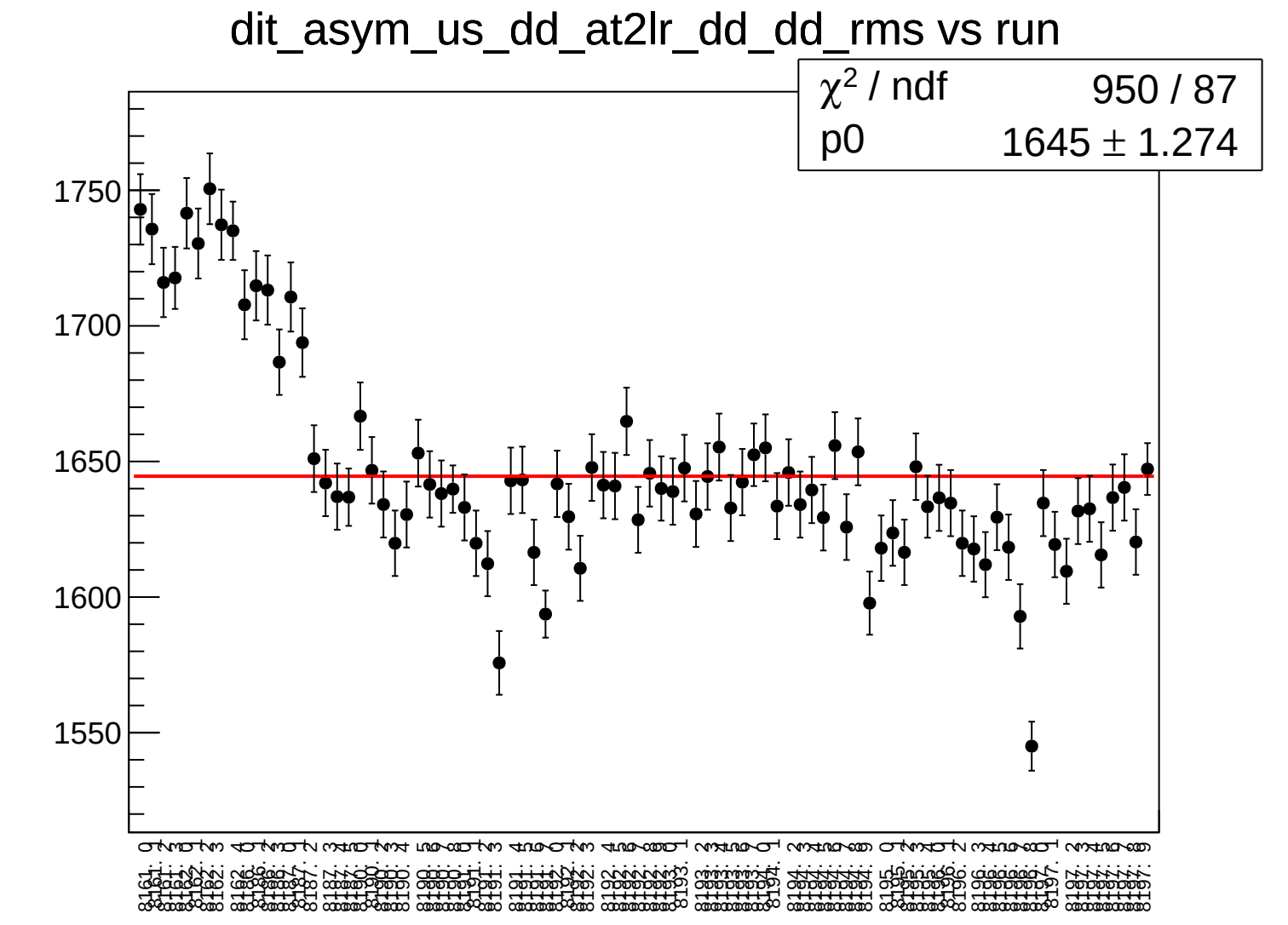

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.62 / 87
p0 1947 ± 1591
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −602.2
Std Dev 0
2
1
0
−1
−2

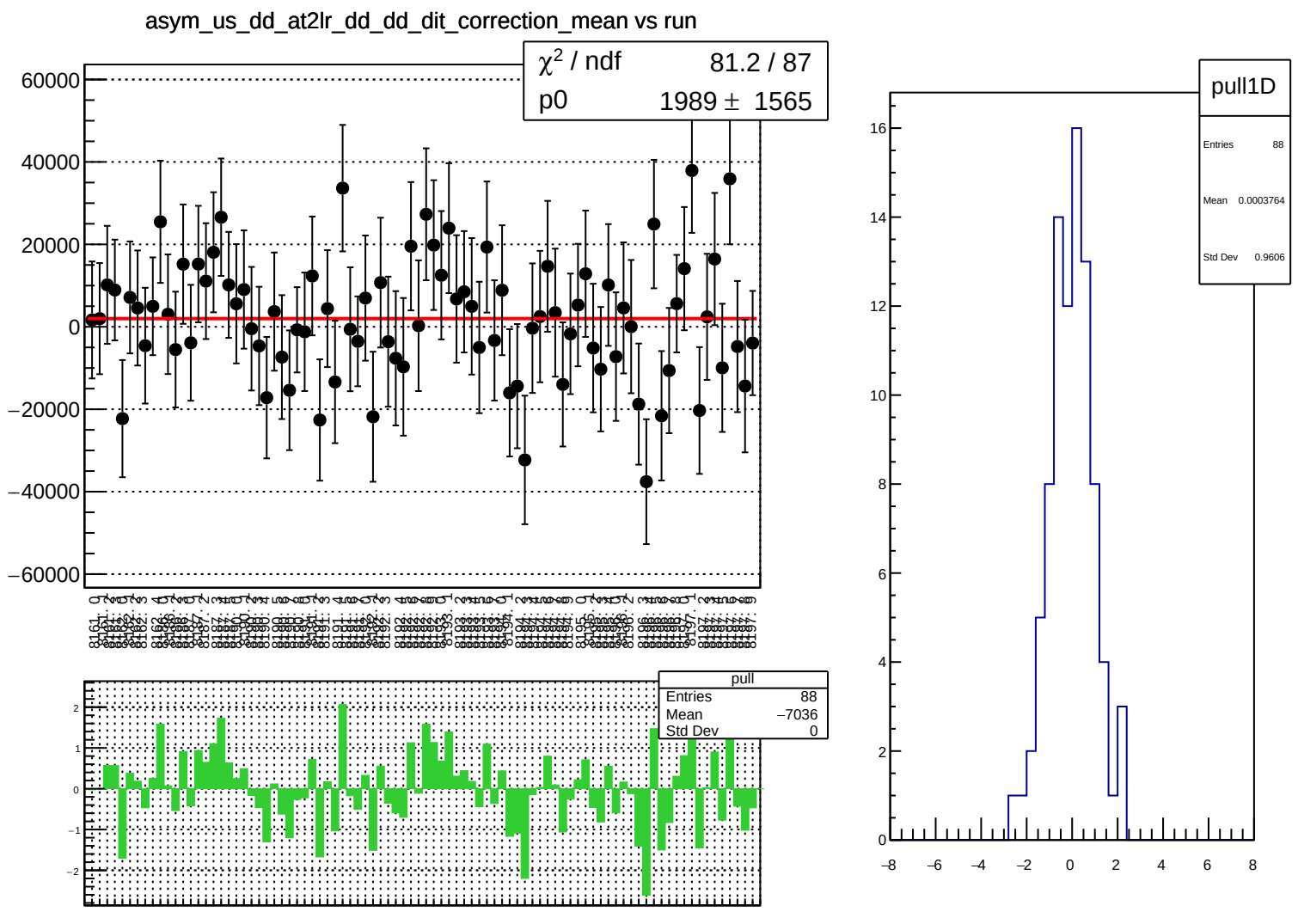

pull1D
Entries 88
Mean 0.004392
Std Dev 0.9631
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

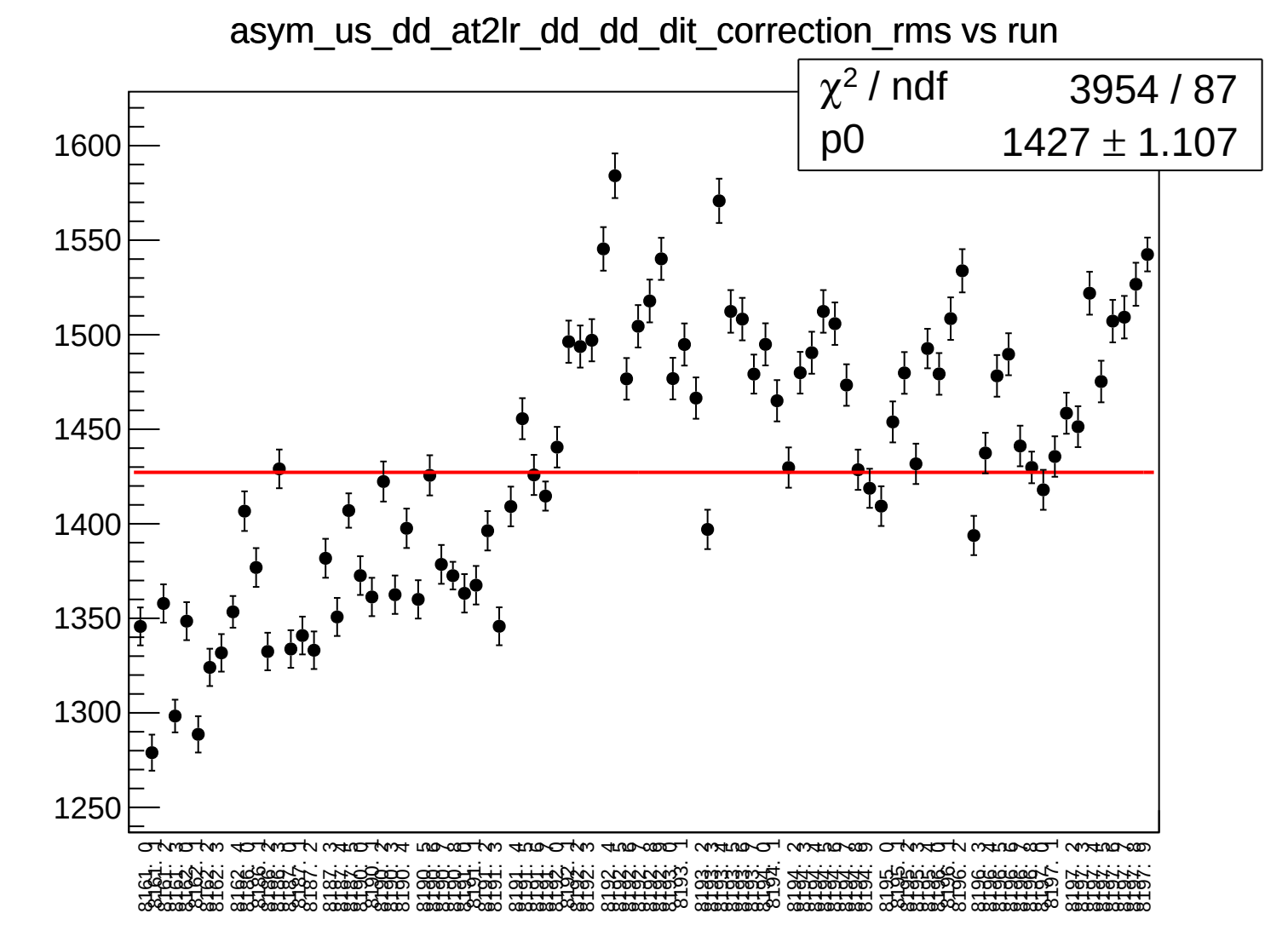

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6033 / 87
p0 1450 ± 1.125
1600
1500
1400
1300
1200

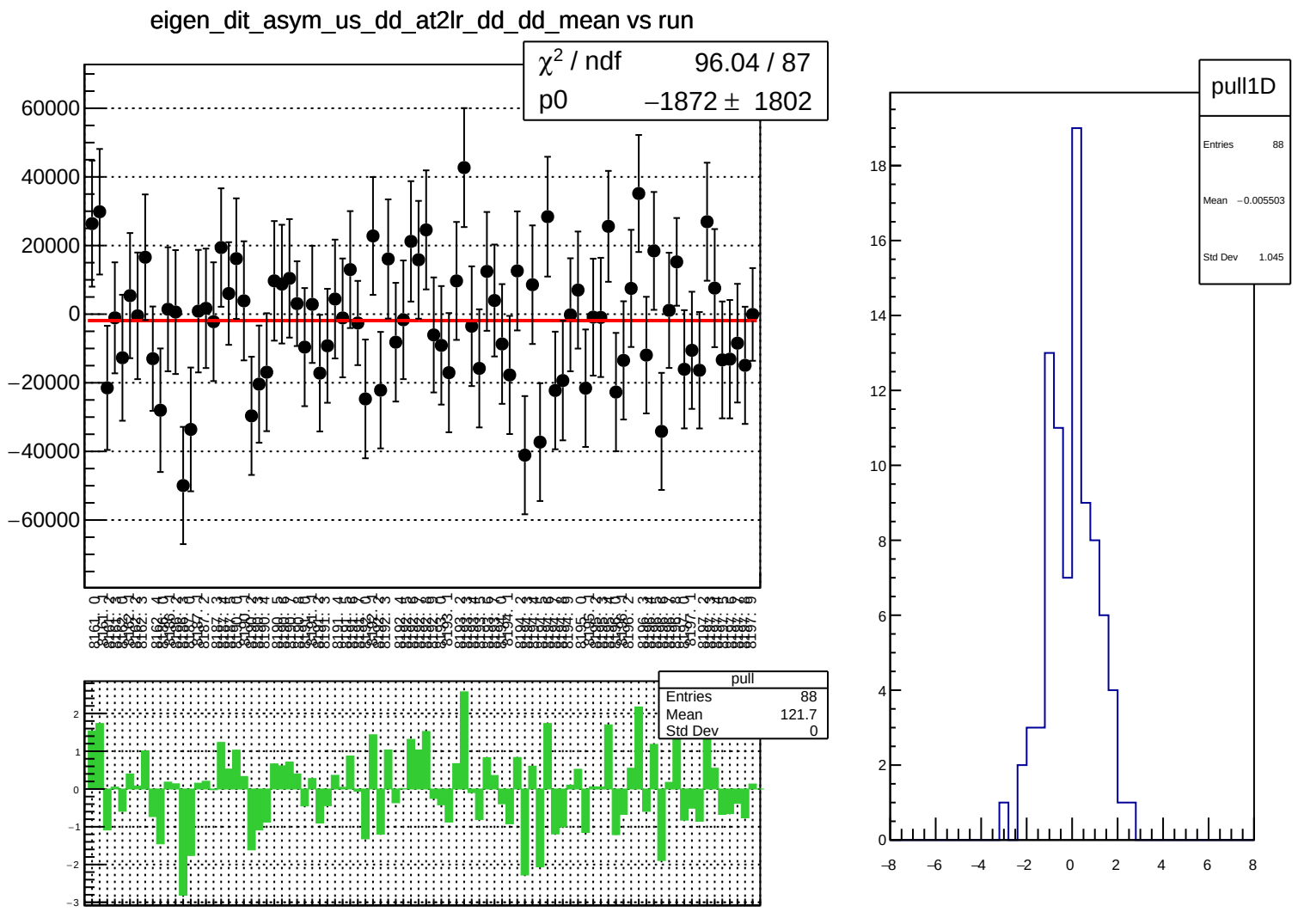

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 96.03 / 87
p0 −1872 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 121.7
Std Dev 0
2
1
0
−1
−2
−3

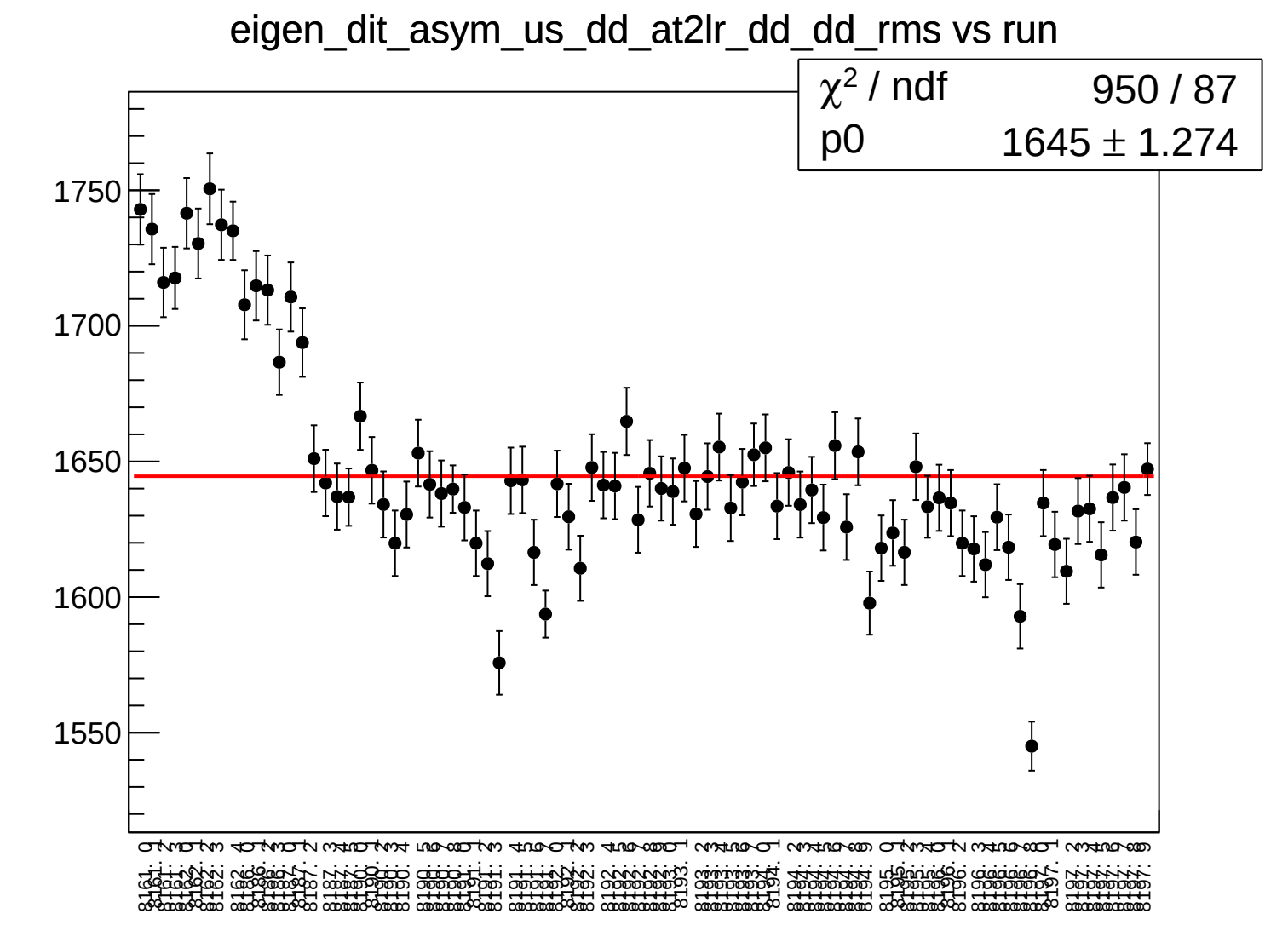

pull1D
Entries 88
Mean −0.005503
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

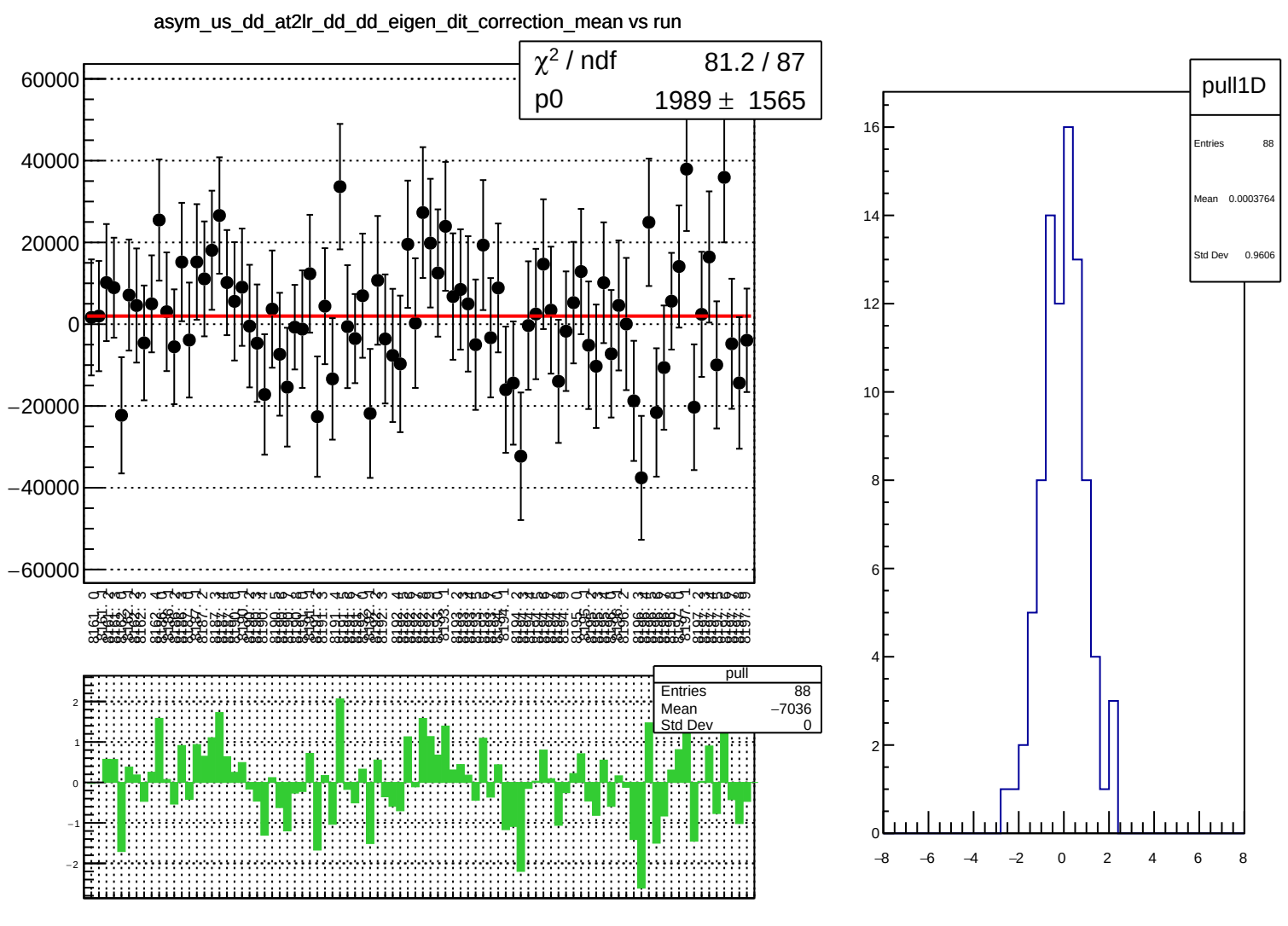

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 950 / 87
p0 1645 ± 1.274
1750
1700
1650
1600
1550

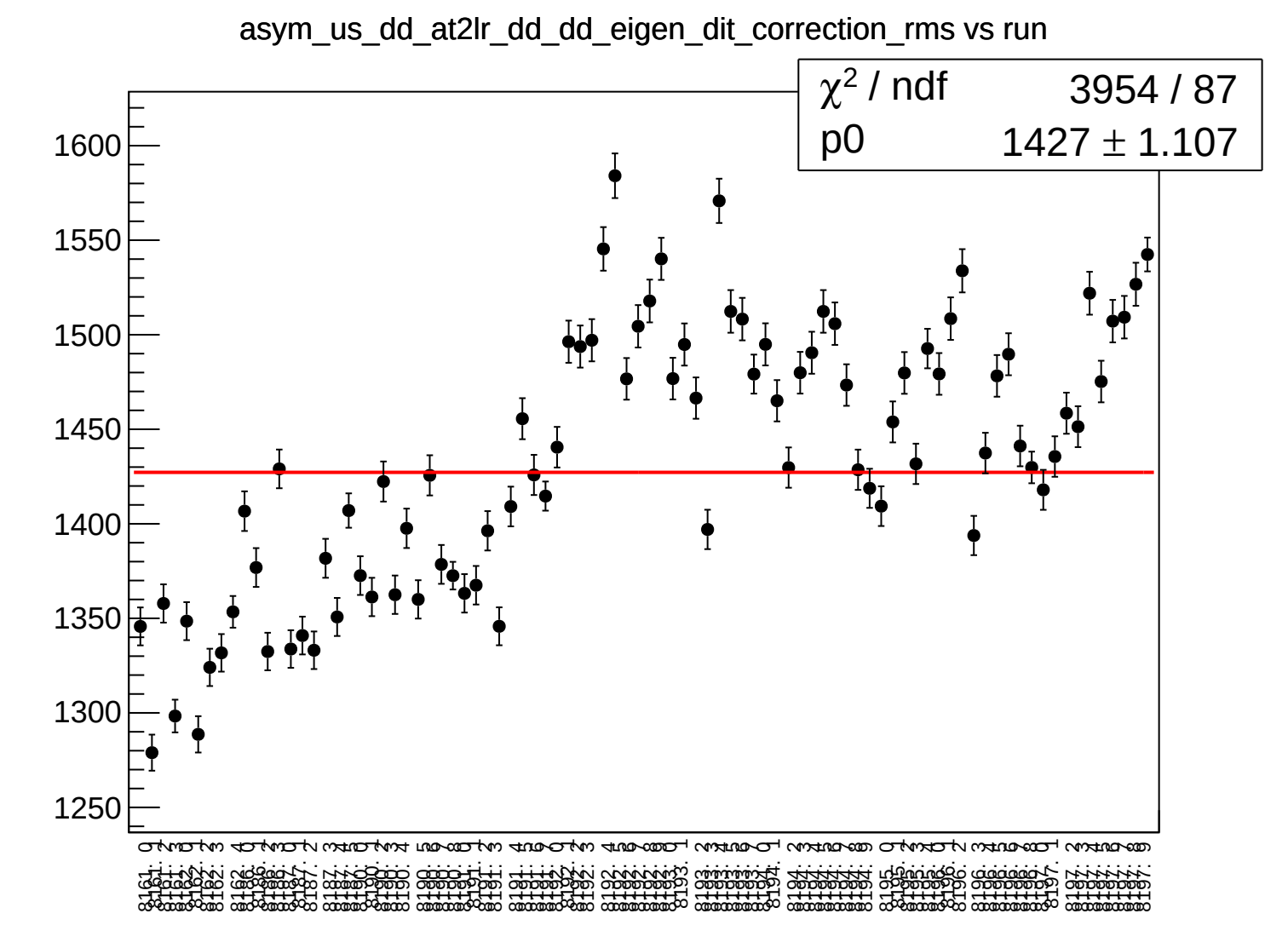

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 81.2 / 87
p0 1989 ± 1565
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −7036
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0003764
Std Dev 0.9606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

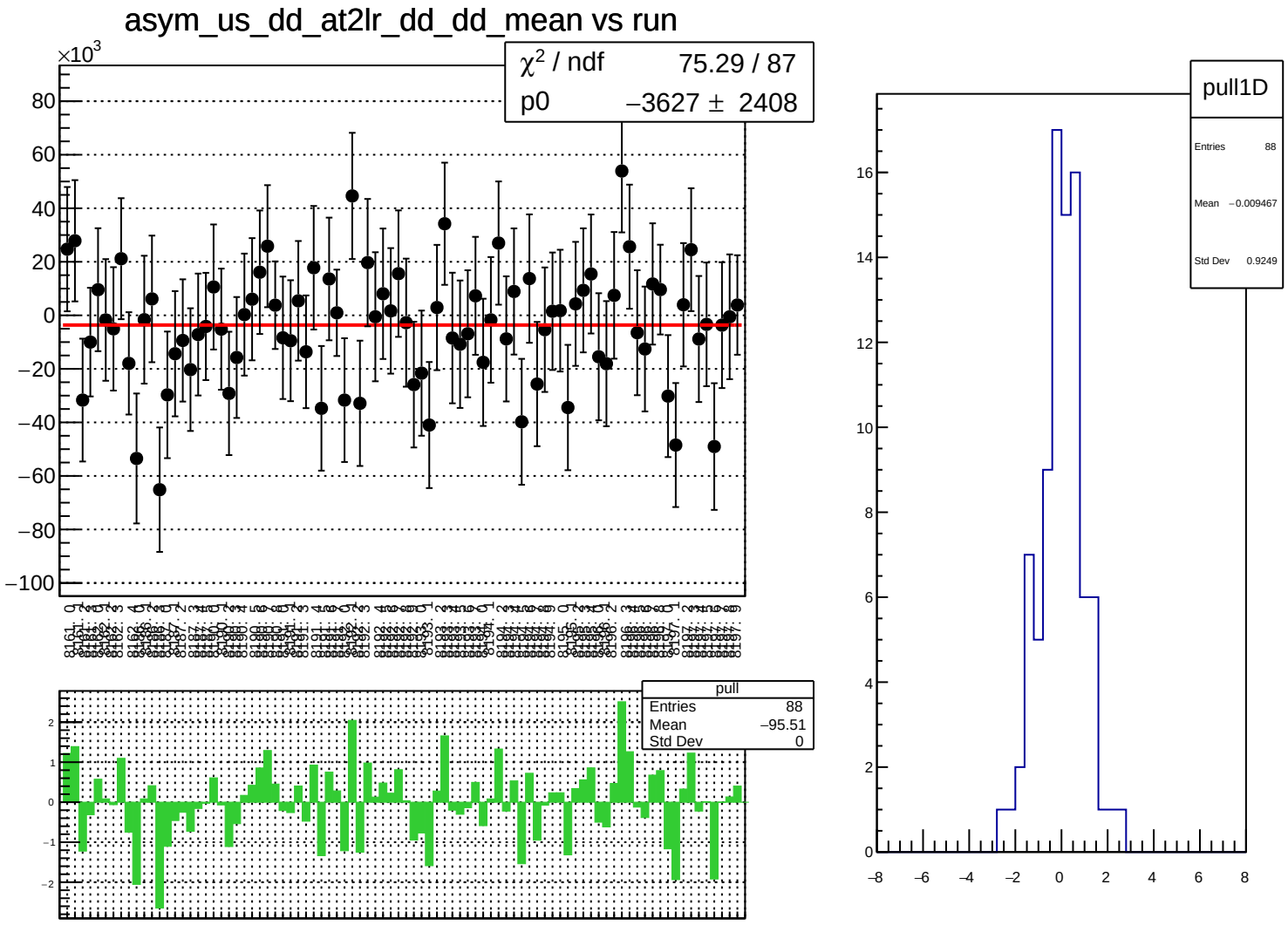

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3954 / 87
p0 1427 ± 1.107
1600
1550
1500
1450
1400
1350
1300
1250

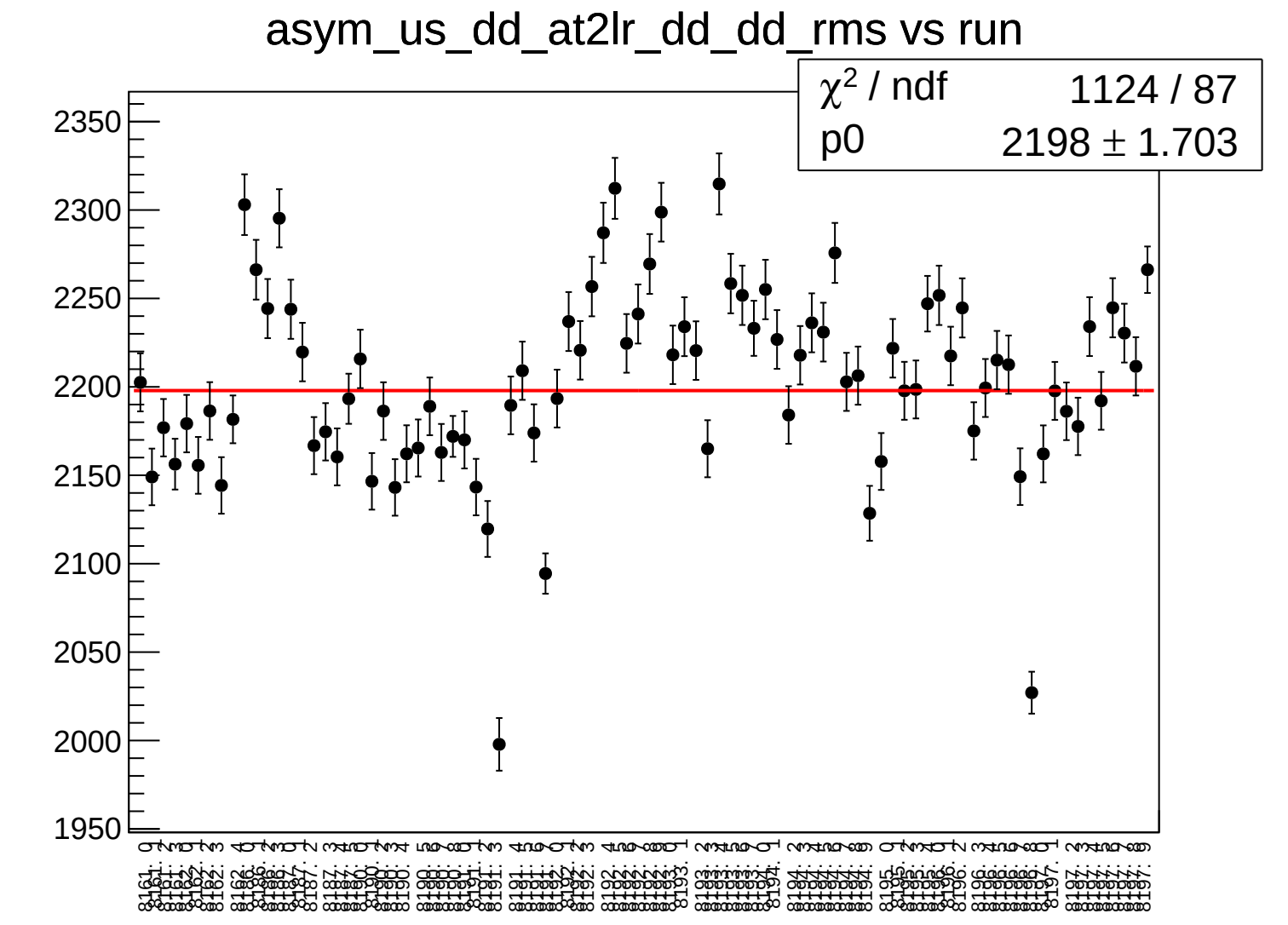

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 96.04 / 87
p0 −1872 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 121.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.005503
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

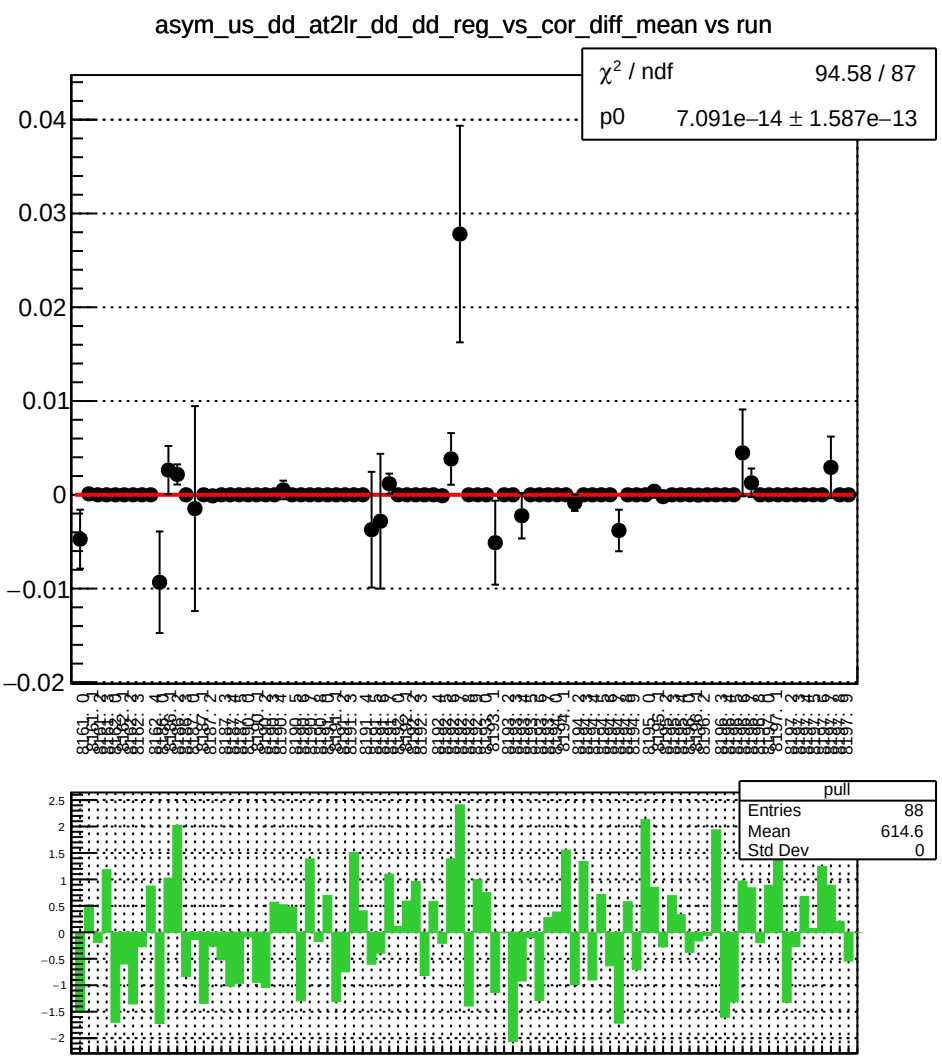

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 950 / 87
p0 1645 ± 1.274
1750
1700
1650
1600
1550

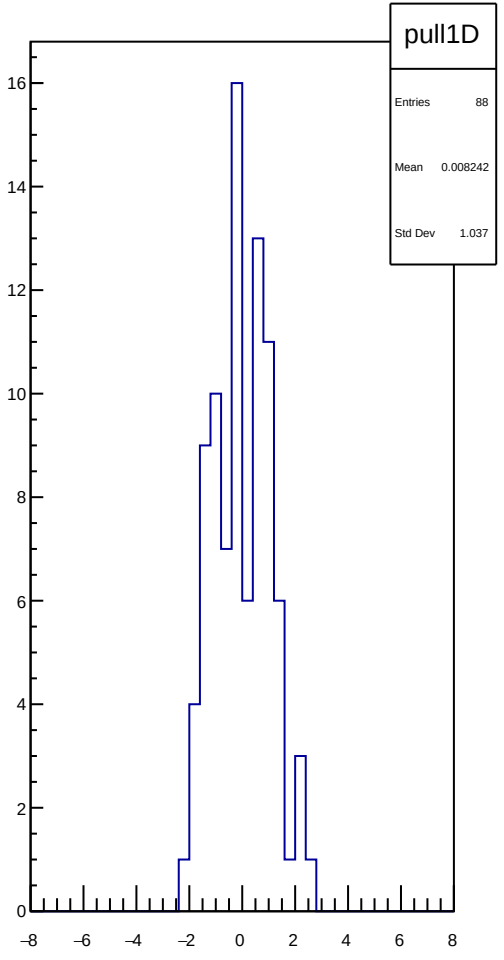

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.2 / 87
p0 1989 ± 1565
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −7036
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0003764
Std Dev 0.9606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

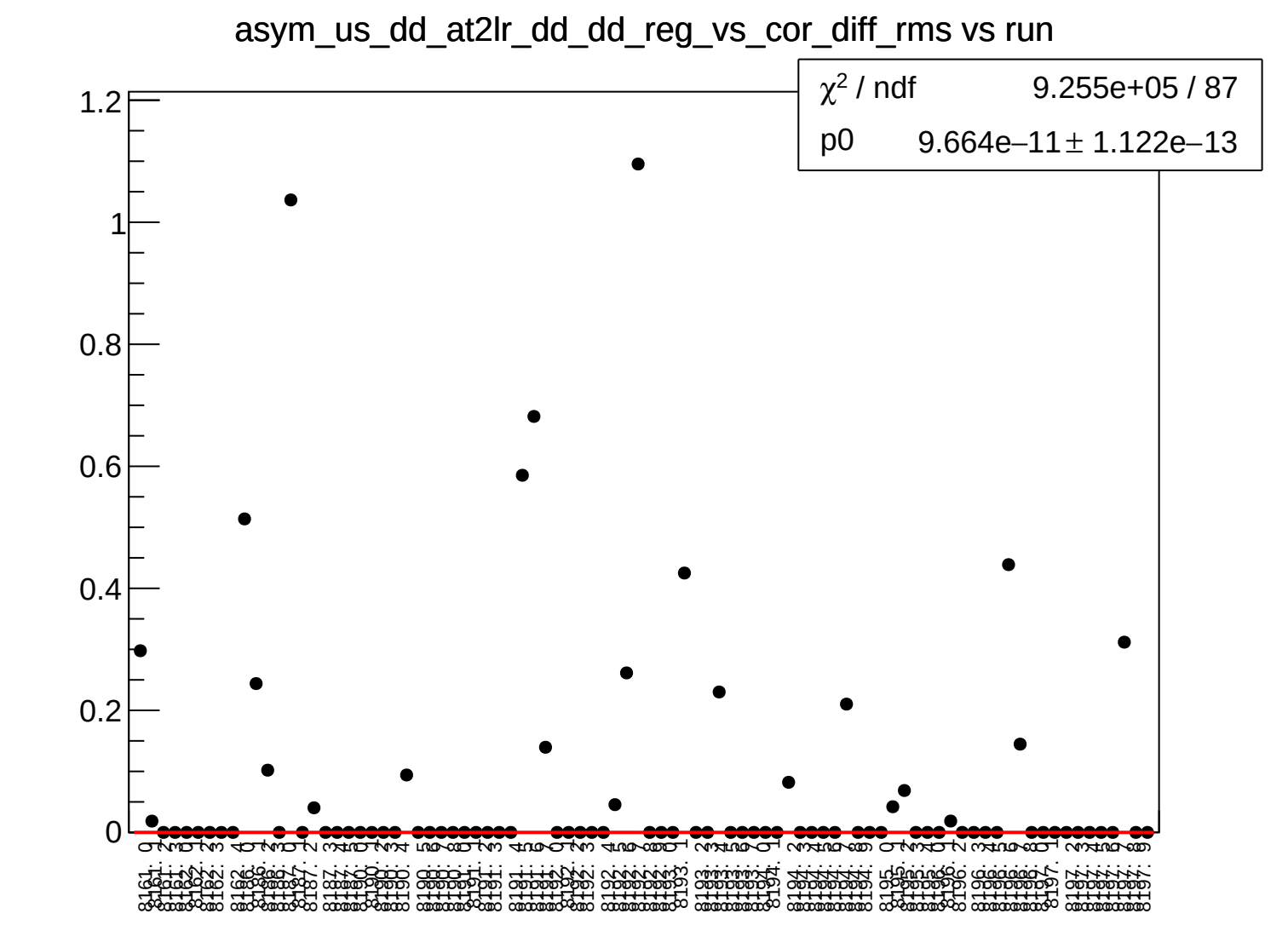

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3954 / 87
p0 1427 ± 1.107
1600
1550
1500
1450
1400
1350
1300
1250

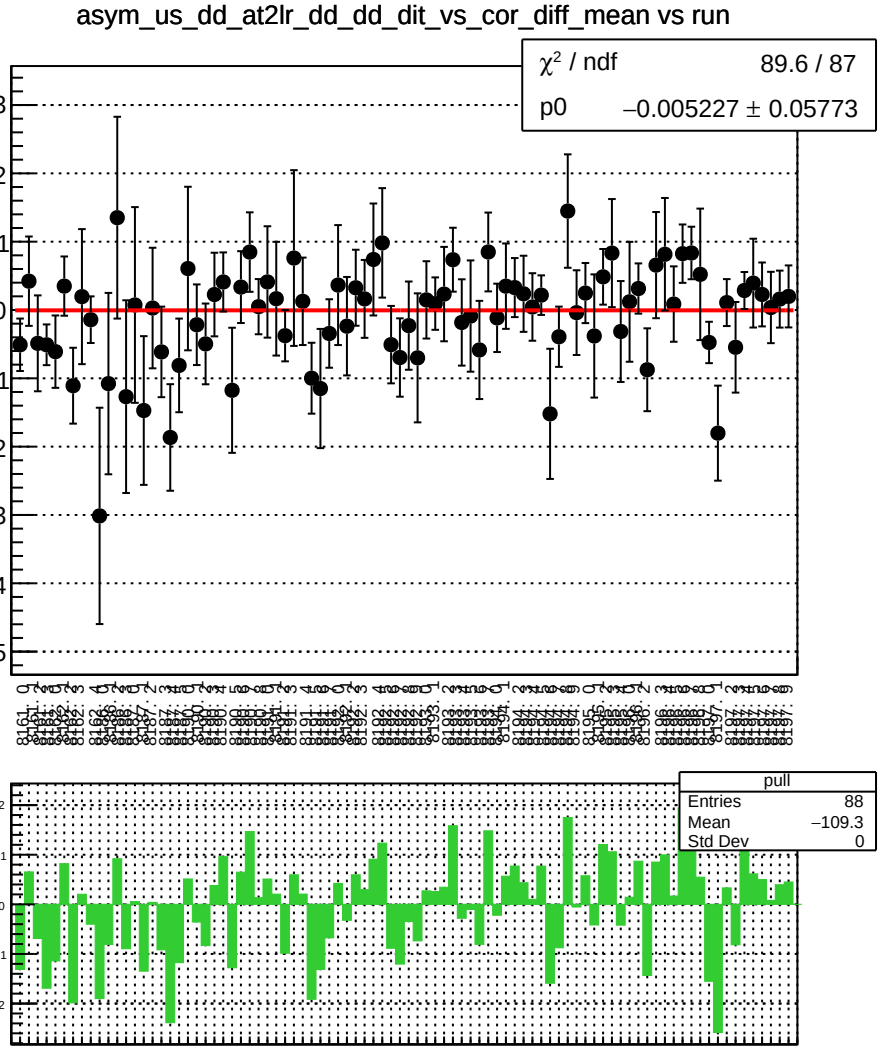

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 75.29 / 87
p0 −3627 ± 2408
pull
Entries 88
Mean −95.51
Std Dev 0
pull1D
Entries 88
Mean −0.009467
Std Dev 0.9249

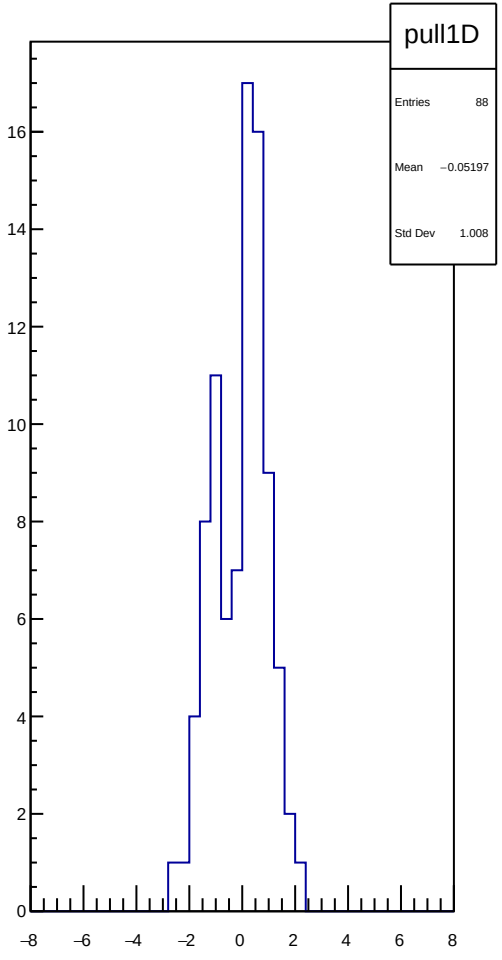

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1124 / 87
p0 2198 ± 1.703
2350
2300
2250
2200
2150
2100
2050
2000
1950

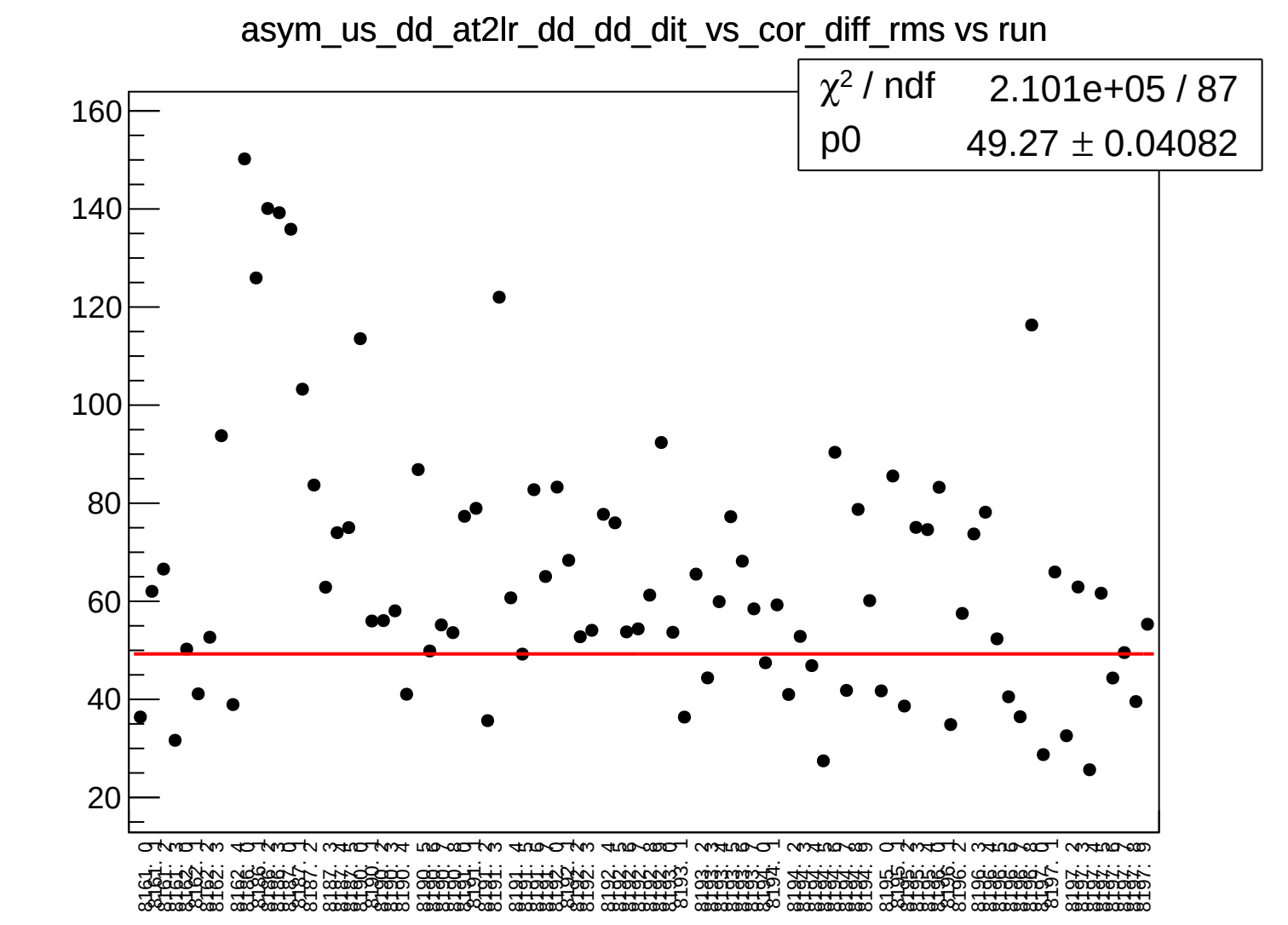

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.58 / 87
p0 7.091e−14 ± 1.587e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 614.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

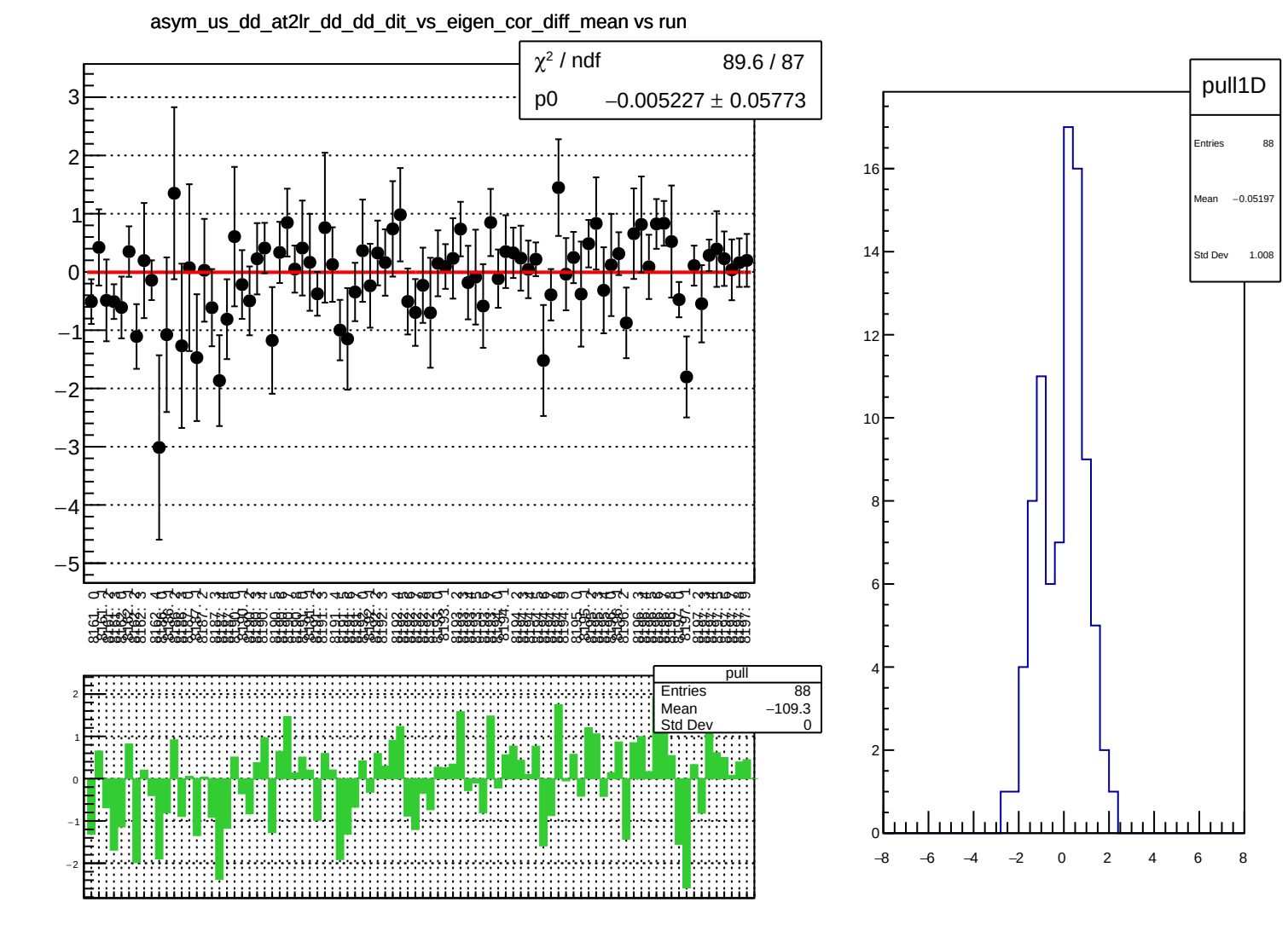

pull1D
Entries 88
Mean 0.008242
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

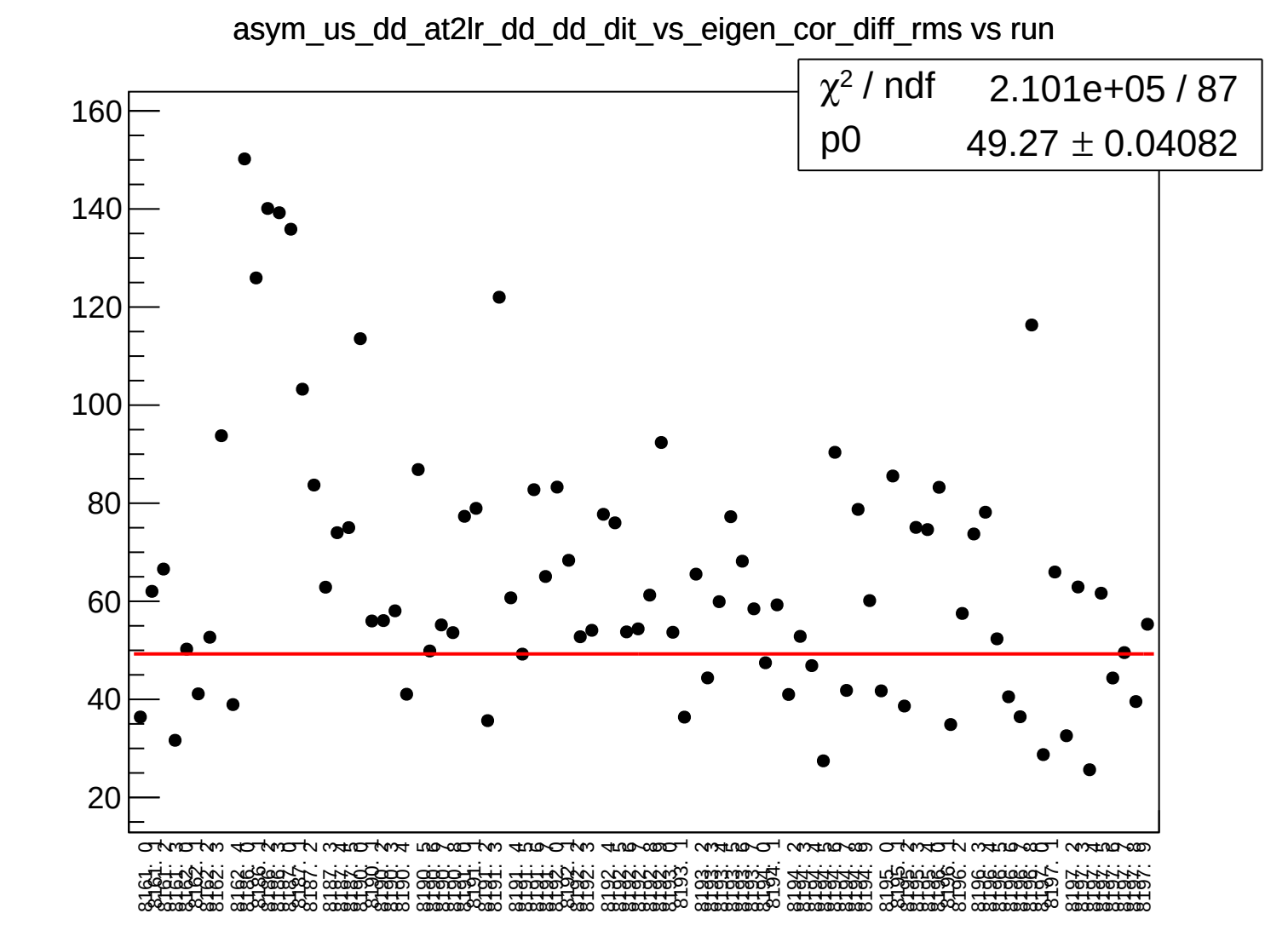

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.255e+05 / 87
p0 9.664e−11 ± 1.122e−13
1.2
1
0.8
0.6
0.4
0.2
0

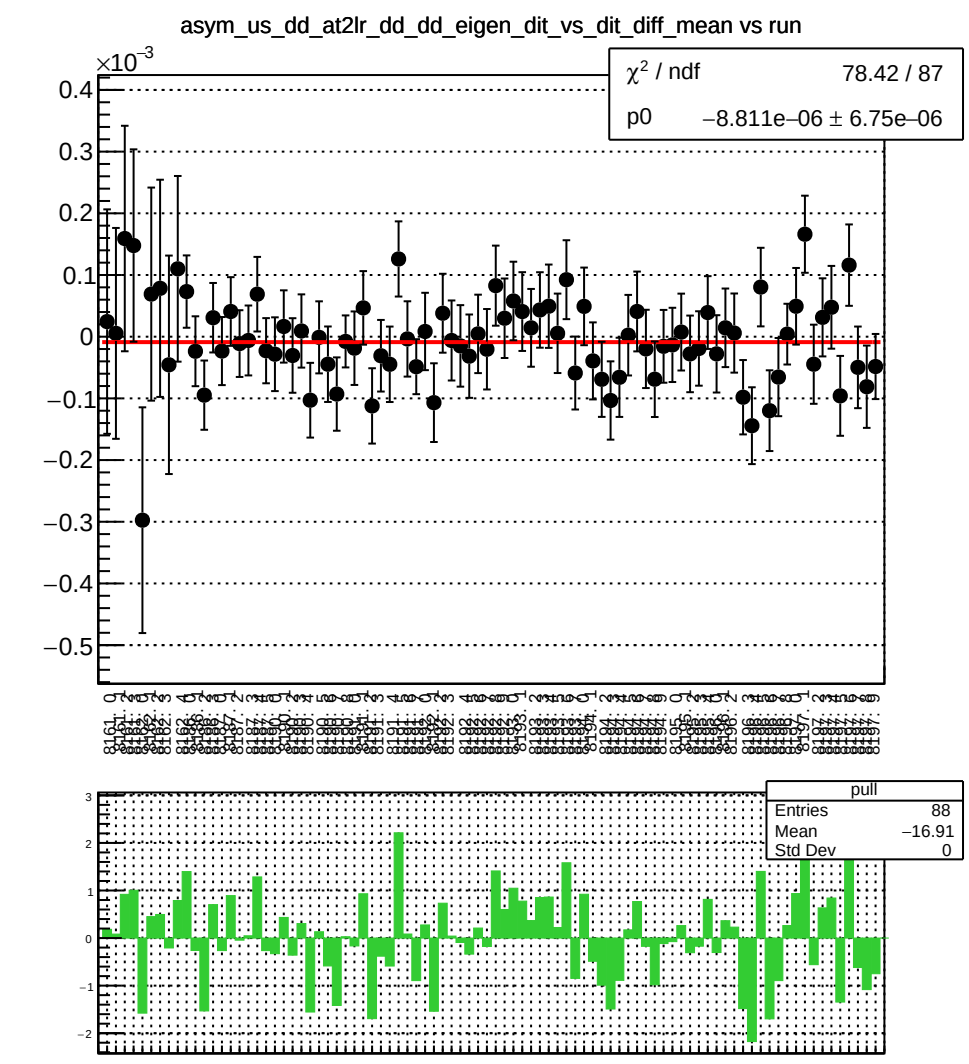

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.6 / 87
p0 −0.005227 ± 0.05773
pull
Entries 88
Mean −109.3
Std Dev 0

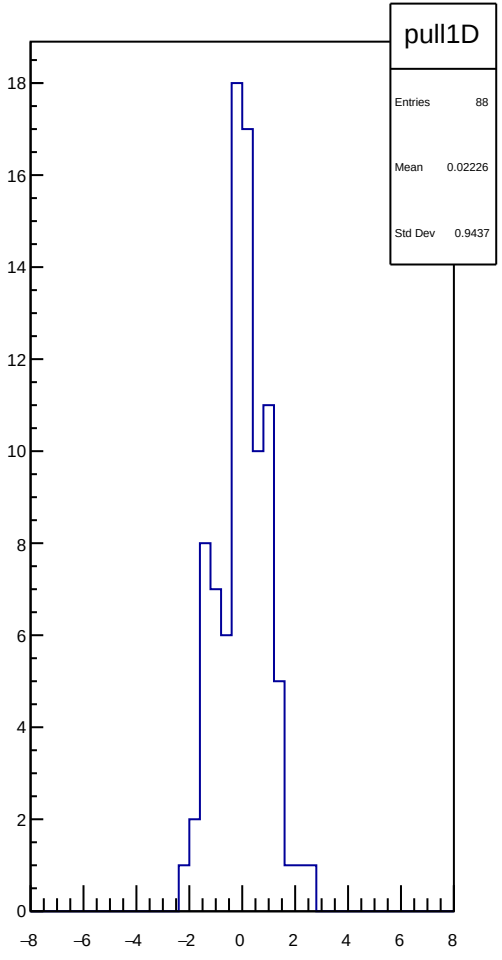

pull1D
Entries 88
Mean −0.05197
Std Dev 1.008

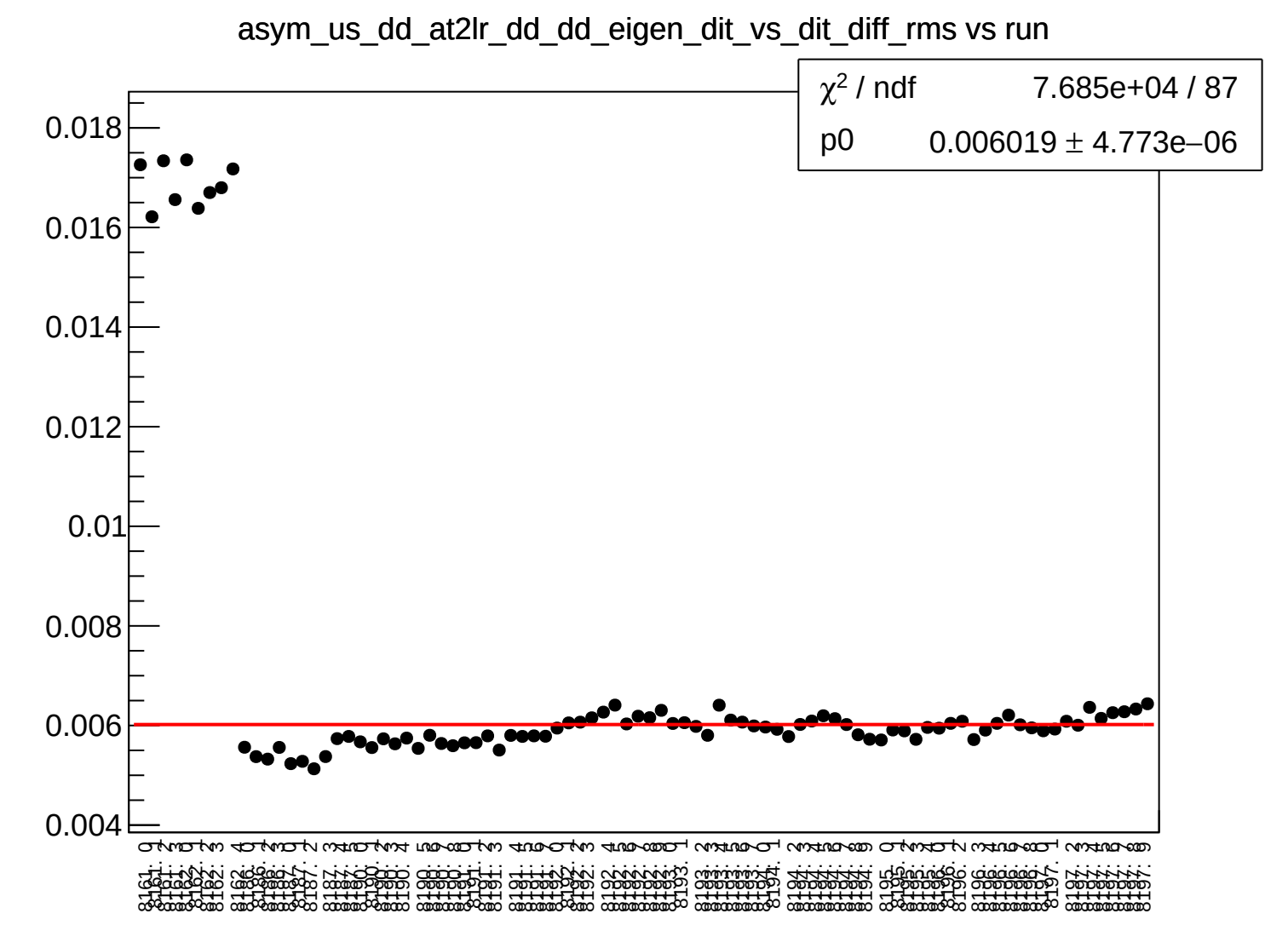

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.101e+05 / 87
p0 49.27 ± 0.04082
160
140
120
100
80
60
40
20

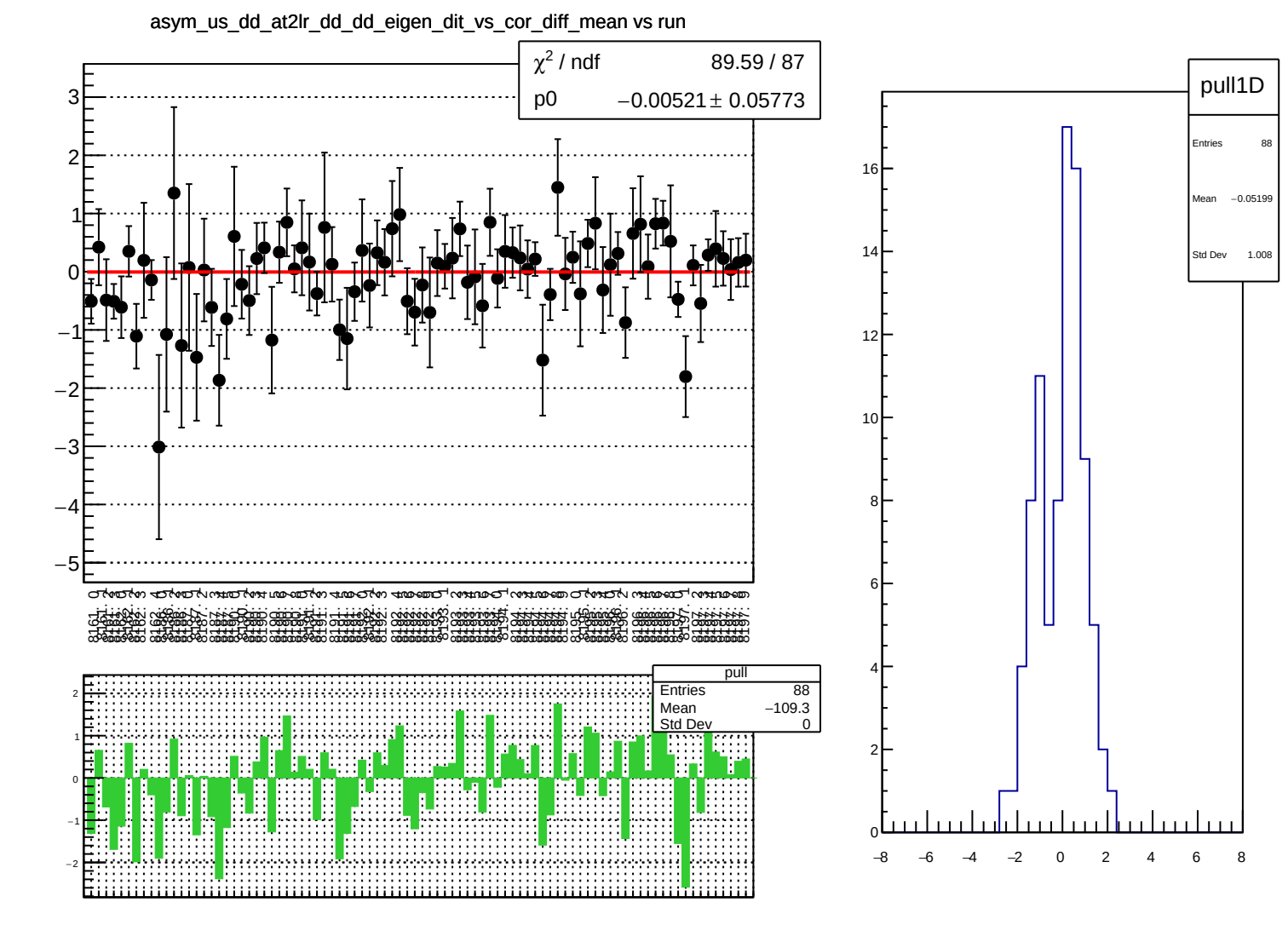

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.6 / 87
p0 −0.005227 ± 0.05773
pull
Entries 88
Mean −109.3
Std Dev 0
pull1D
Entries 88
Mean −0.05197
Std Dev 1.008

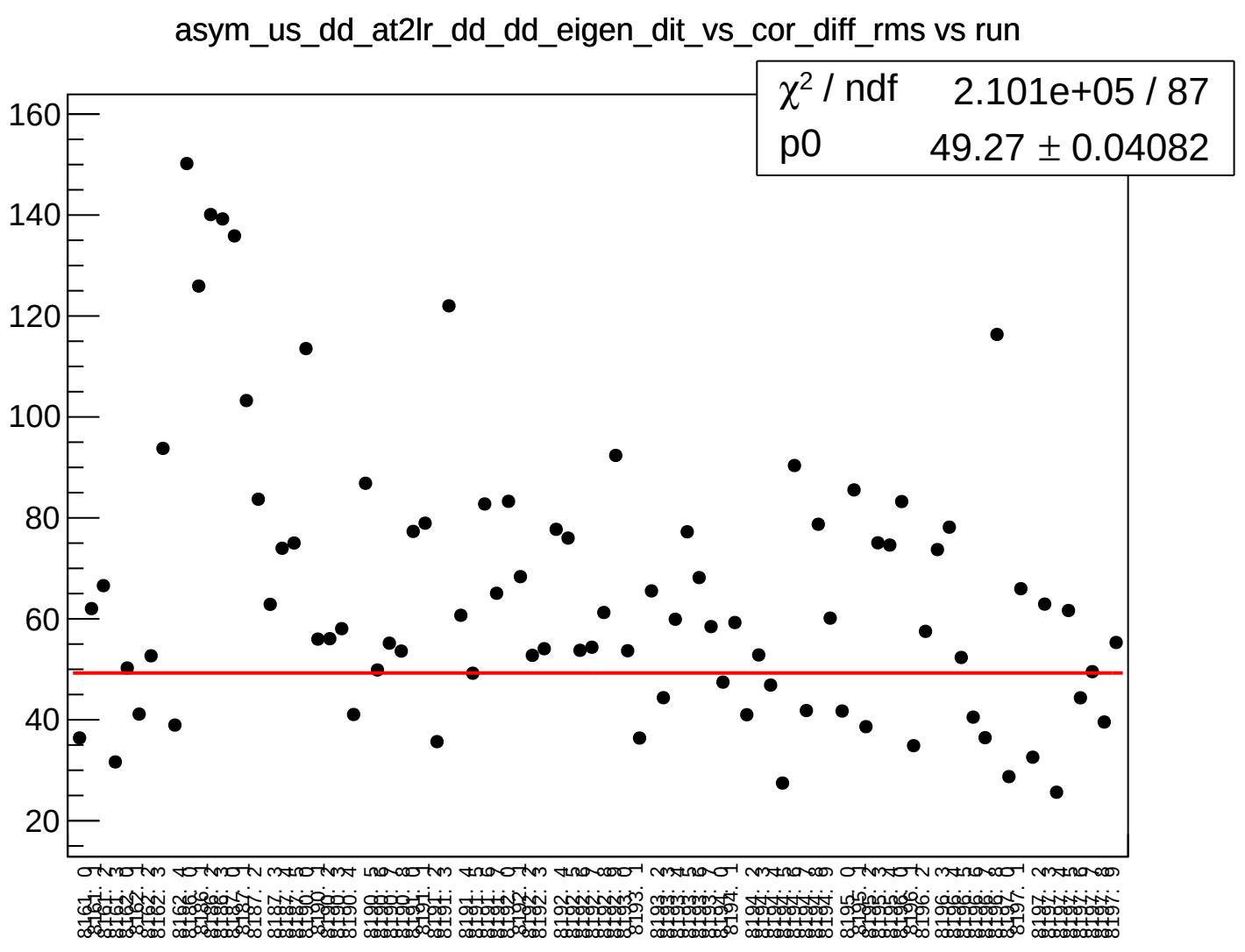

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.101e+05 / 87
p0 49.27 ± 0.04082
160
140
120
100
80
60
40
20

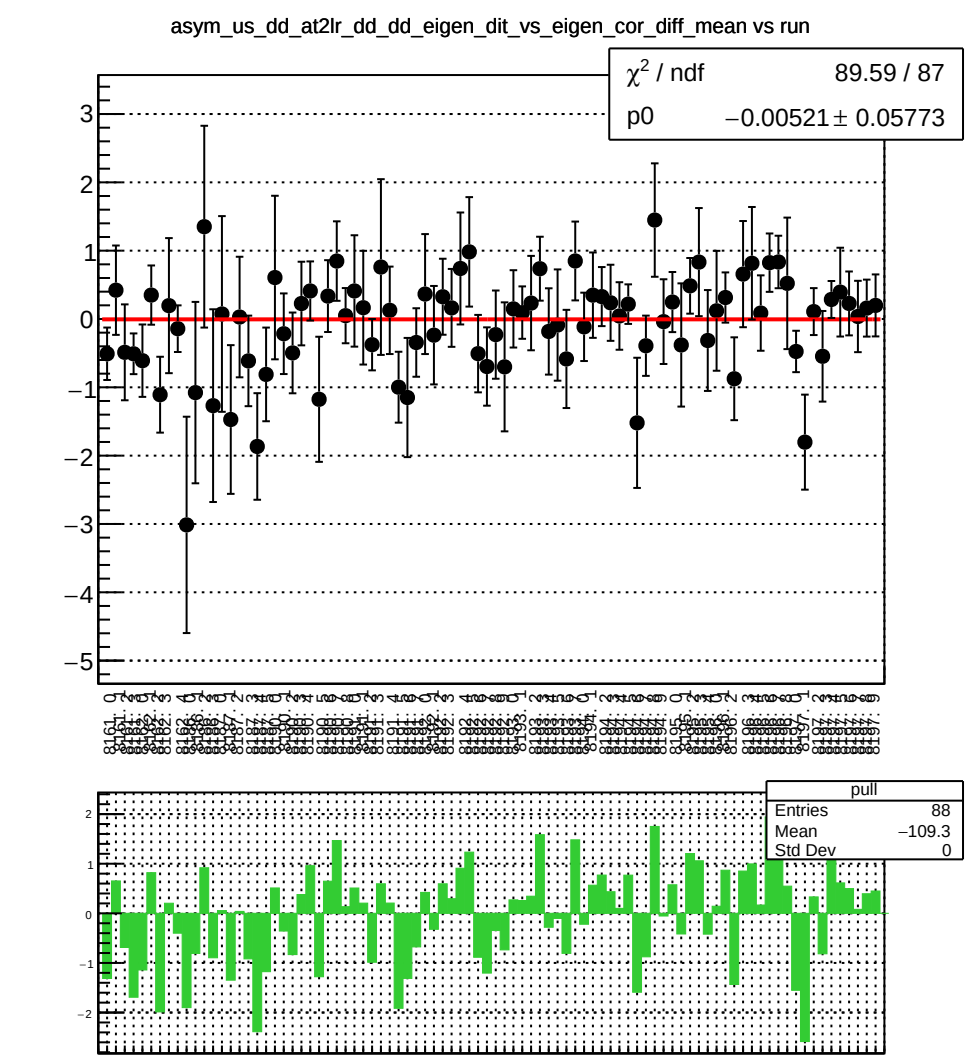

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.42 / 87
p0 −8.811e−06 ± 6.75e−06
pull
Entries 88
Mean −16.91
Std Dev 0

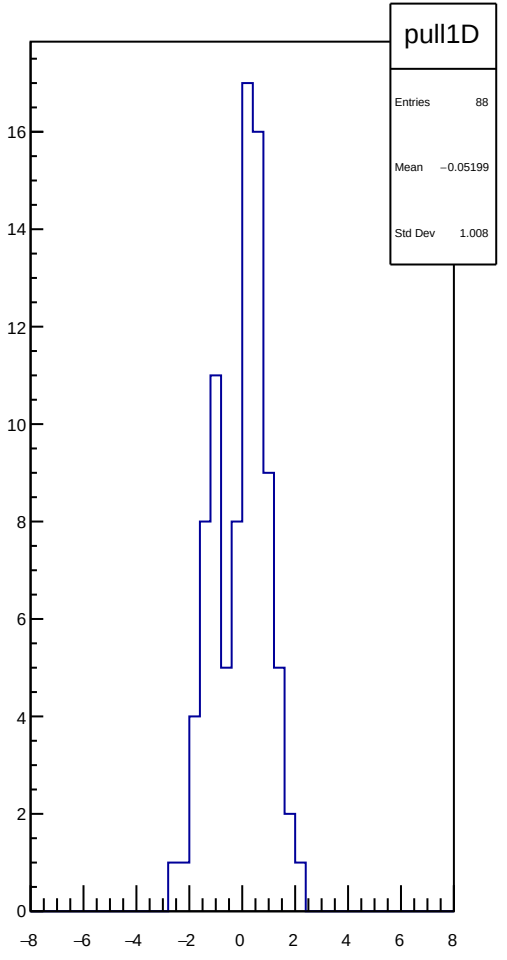

pull1D
Entries 88
Mean 0.02226
Std Dev 0.9437

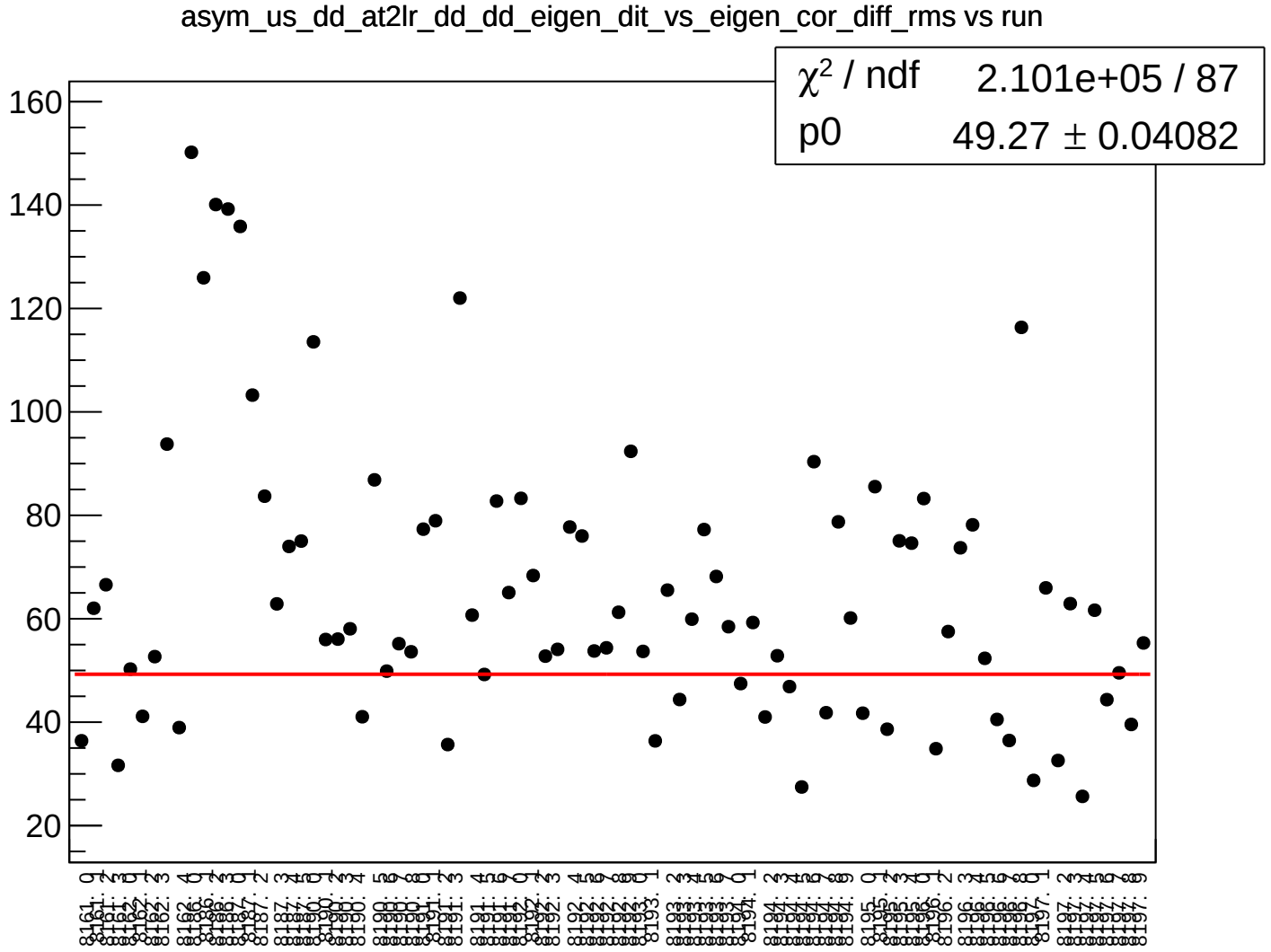

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.685e+04 / 87
p0 0.006019 ± 4.773e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

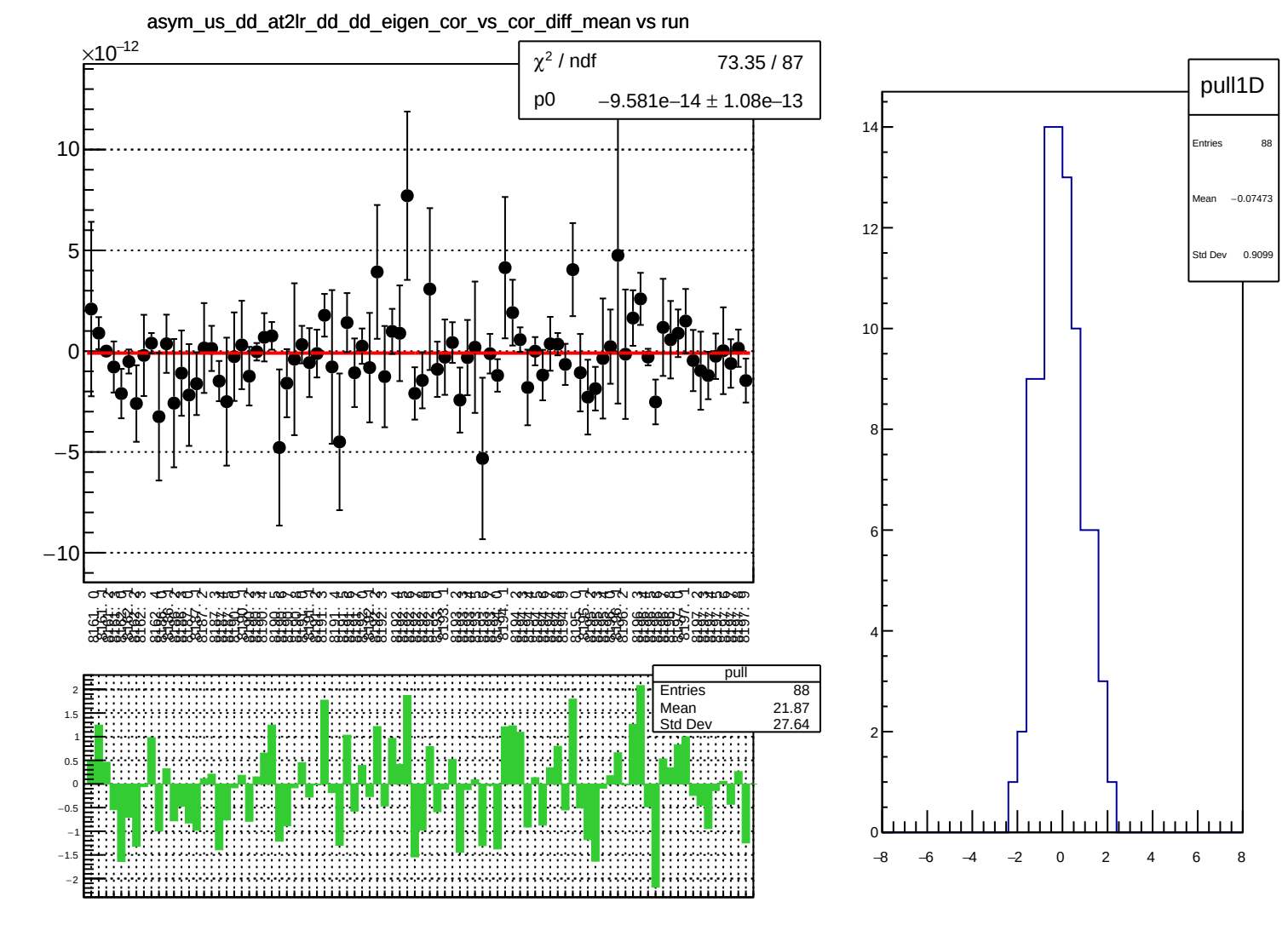

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.59 / 87
p0 −0.00521 ± 0.05773
pull
Entries 88
Mean −109.3
Std Dev 0
pull1D
Entries 88
Mean −0.05199
Std Dev 1.008

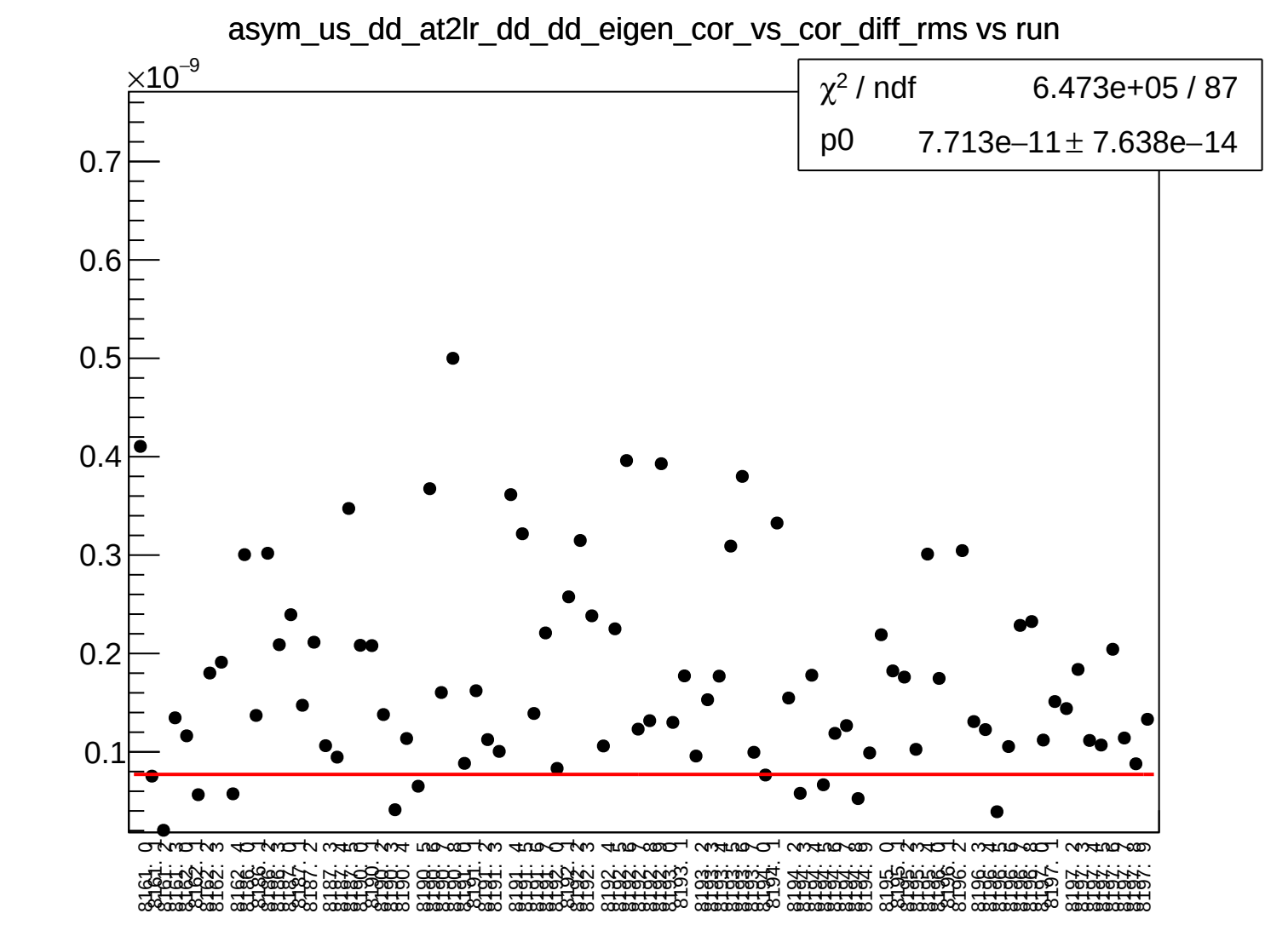

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.101e+05 / 87
p0 49.27 ± 0.04082
160
140
120
100
80
60
40
20

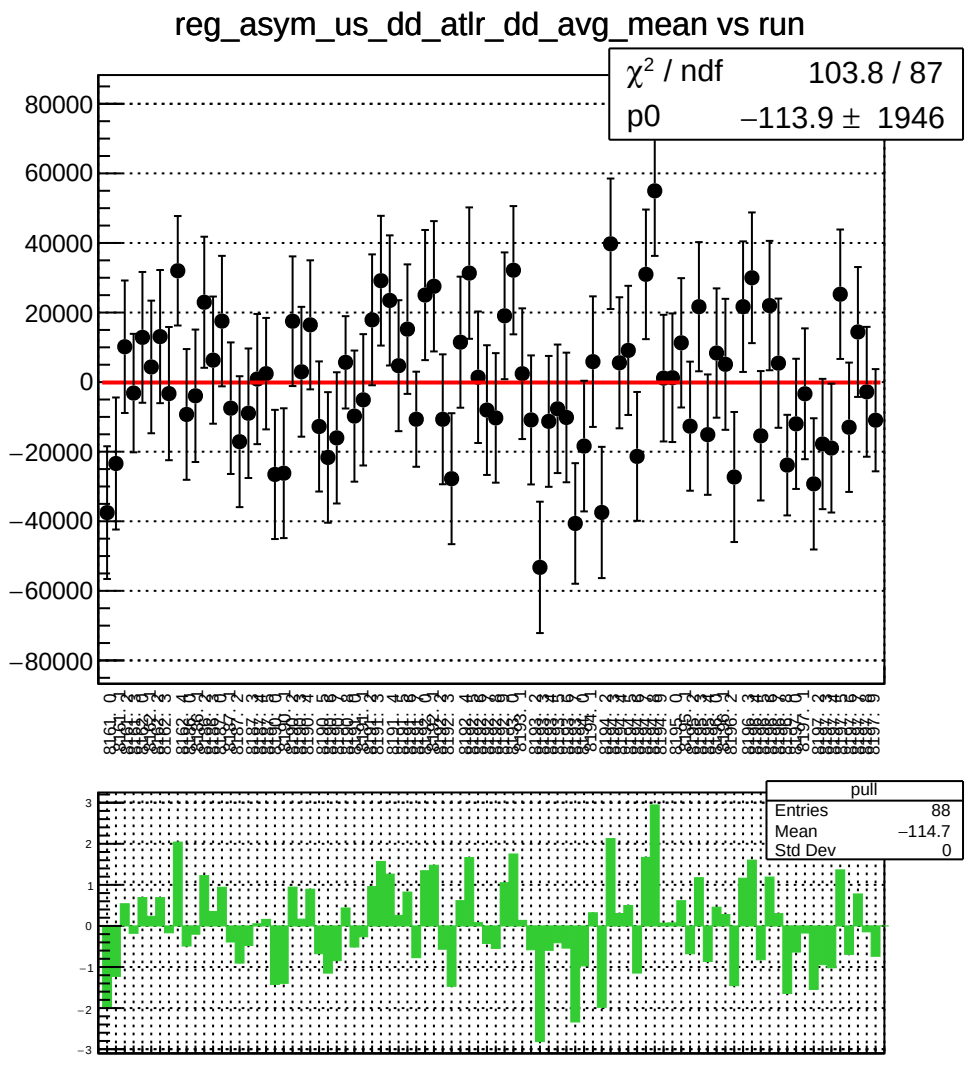

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.59 / 87
p0 −0.00521 ± 0.05773
pull
Entries 88
Mean −109.3
Std Dev 0

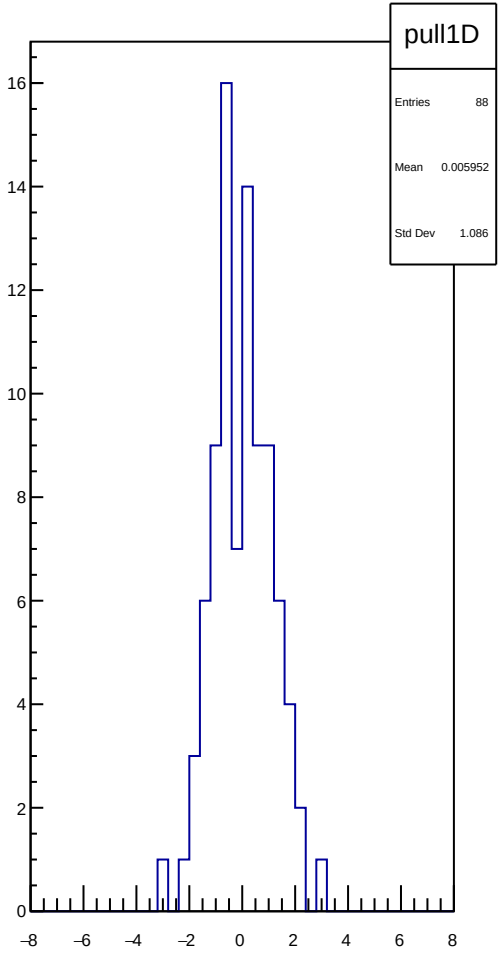

pull1D
Entries 88
Mean −0.05199
Std Dev 1.008

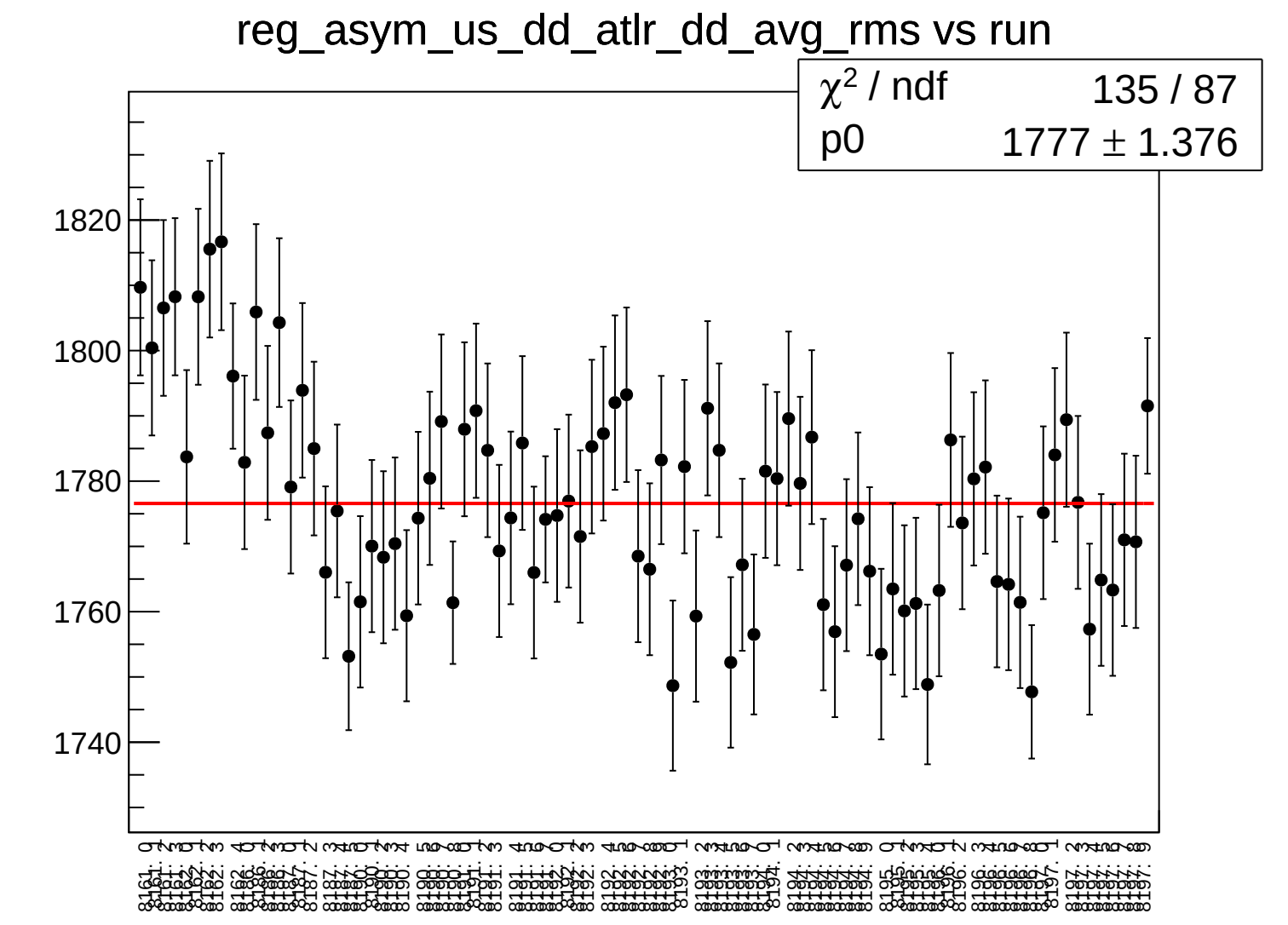

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.101e+05 / 87
p0 49.27 ± 0.04082
160
140
120
100
80
60
40
20

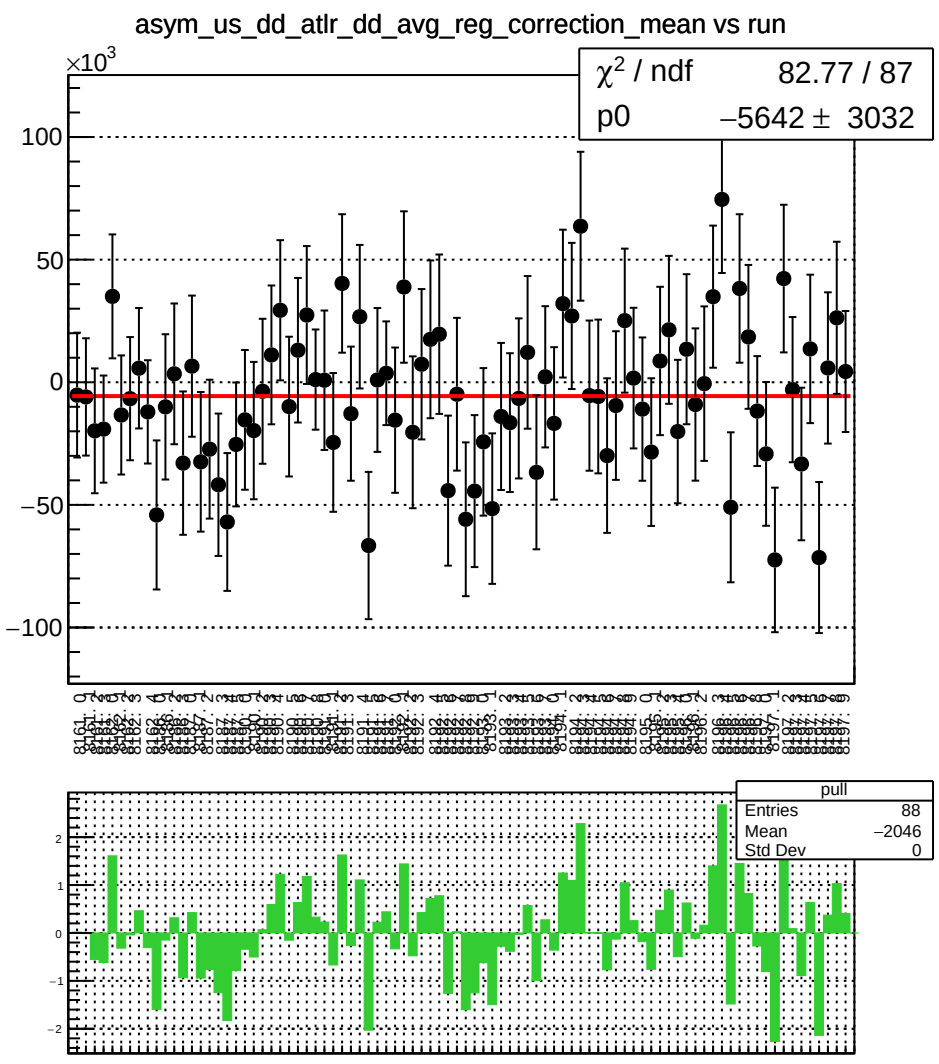

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.35 / 87
p0 −9.581e−14 ± 1.08e−13
pull
Entries 88
Mean 21.87
Std Dev 27.64
pull1D
Entries 88
Mean −0.07473
Std Dev 0.9099

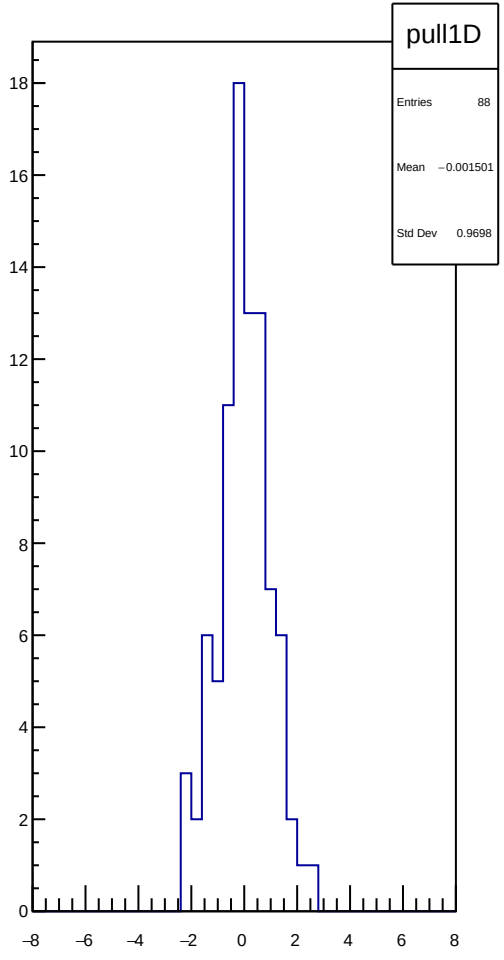

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.473e+05 / 87
p0 7.713e−11 ± 7.638e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

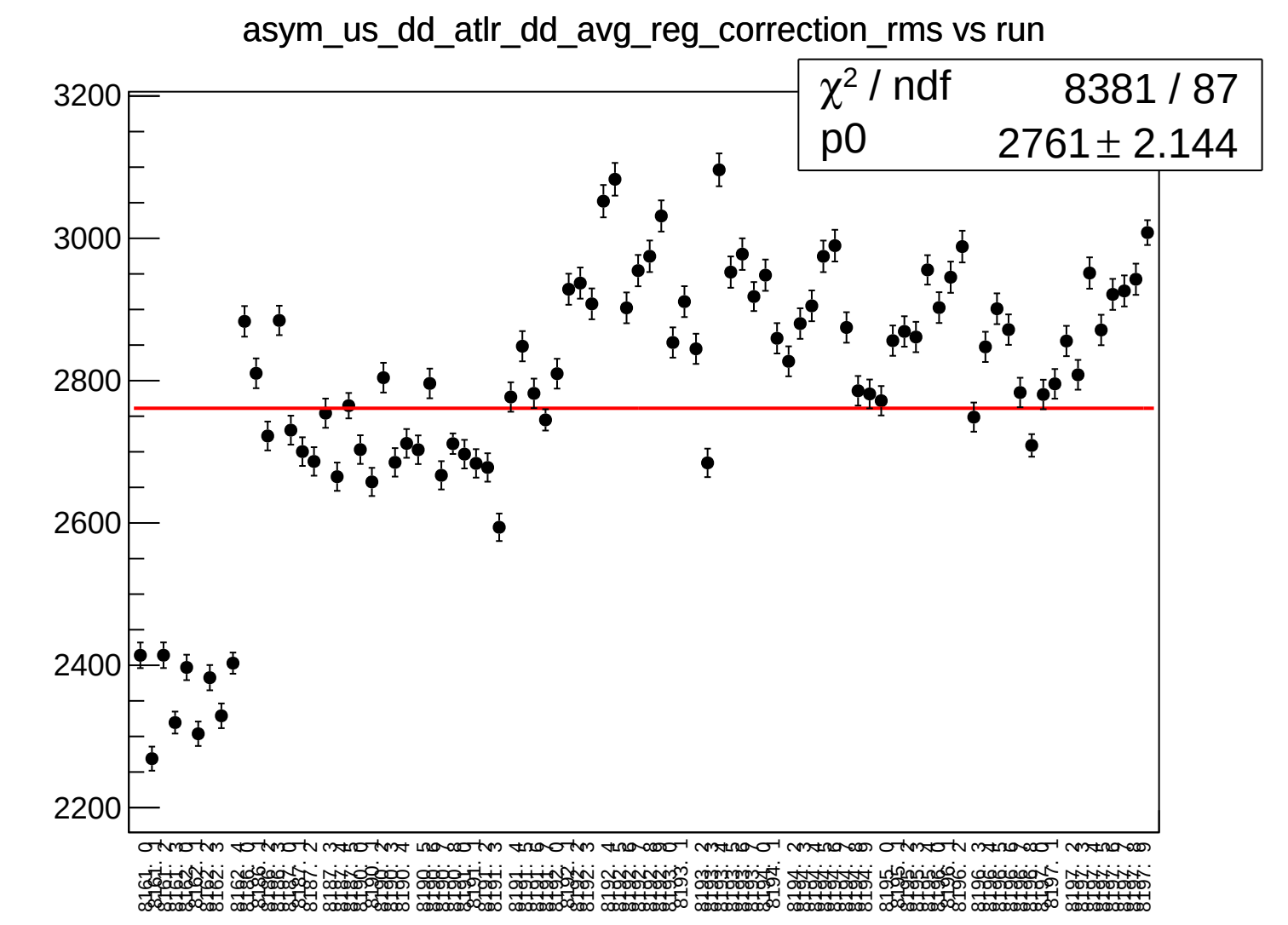

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 103.8 / 87
p0 −113.9 ± 1946
pull
Entries 88
Mean −114.7
Std Dev 0

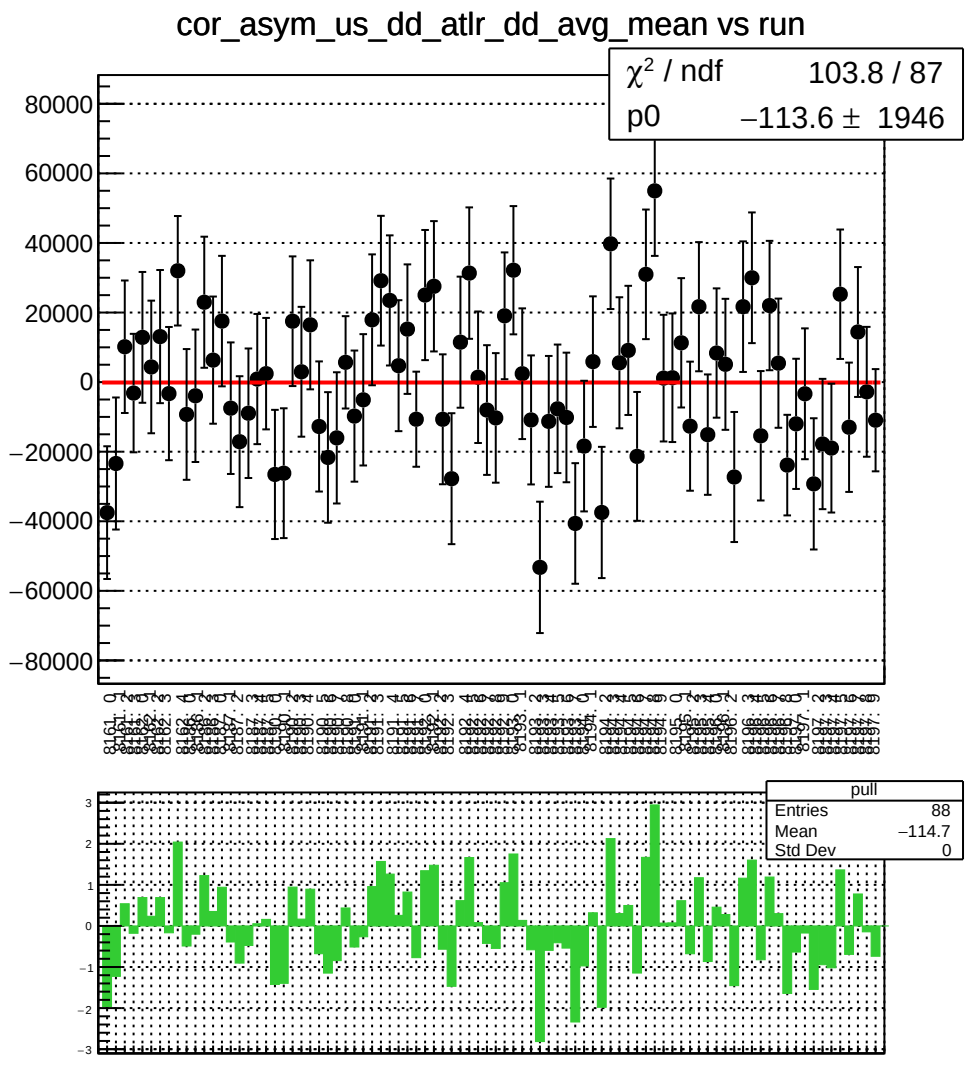

pull1D
Entries 88
Mean 0.005952
Std Dev 1.086

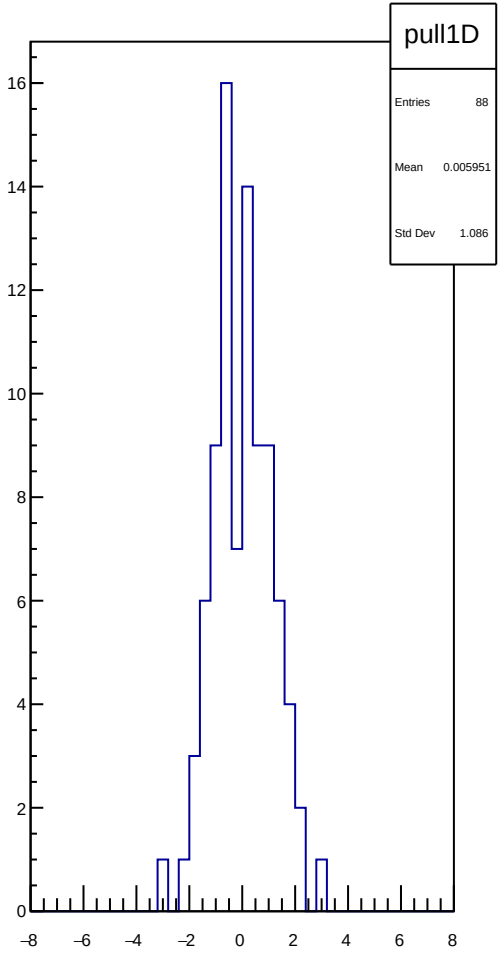

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 135 / 87
p0 1777 ± 1.376
1820
1800
1780
1760
1740

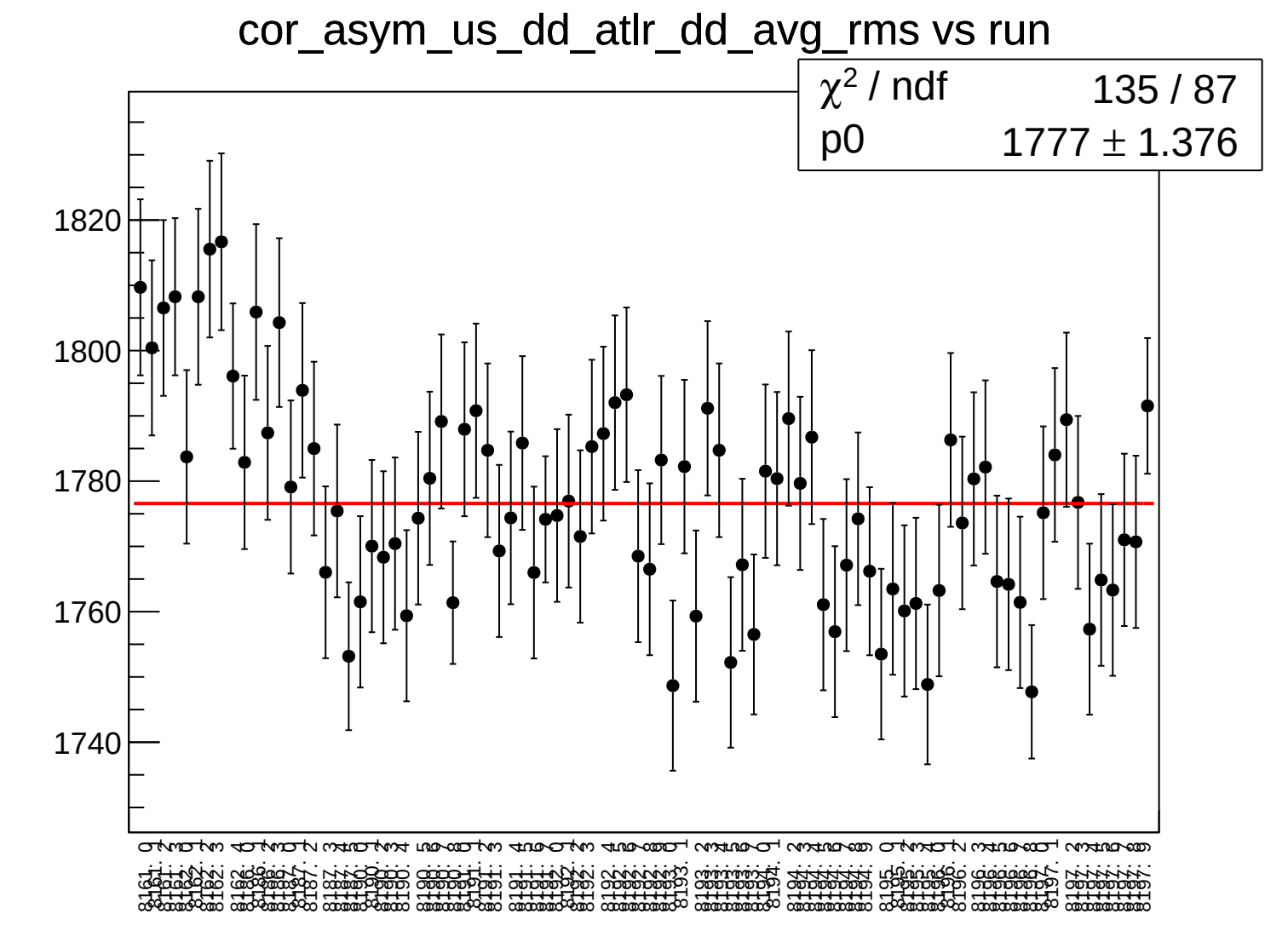

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.77 / 87
p0 −5642 ± 3032
100
50
0
−50
−100
pull
Entries 88
Mean −2046
Std Dev 0
2
1
0
−1
−2

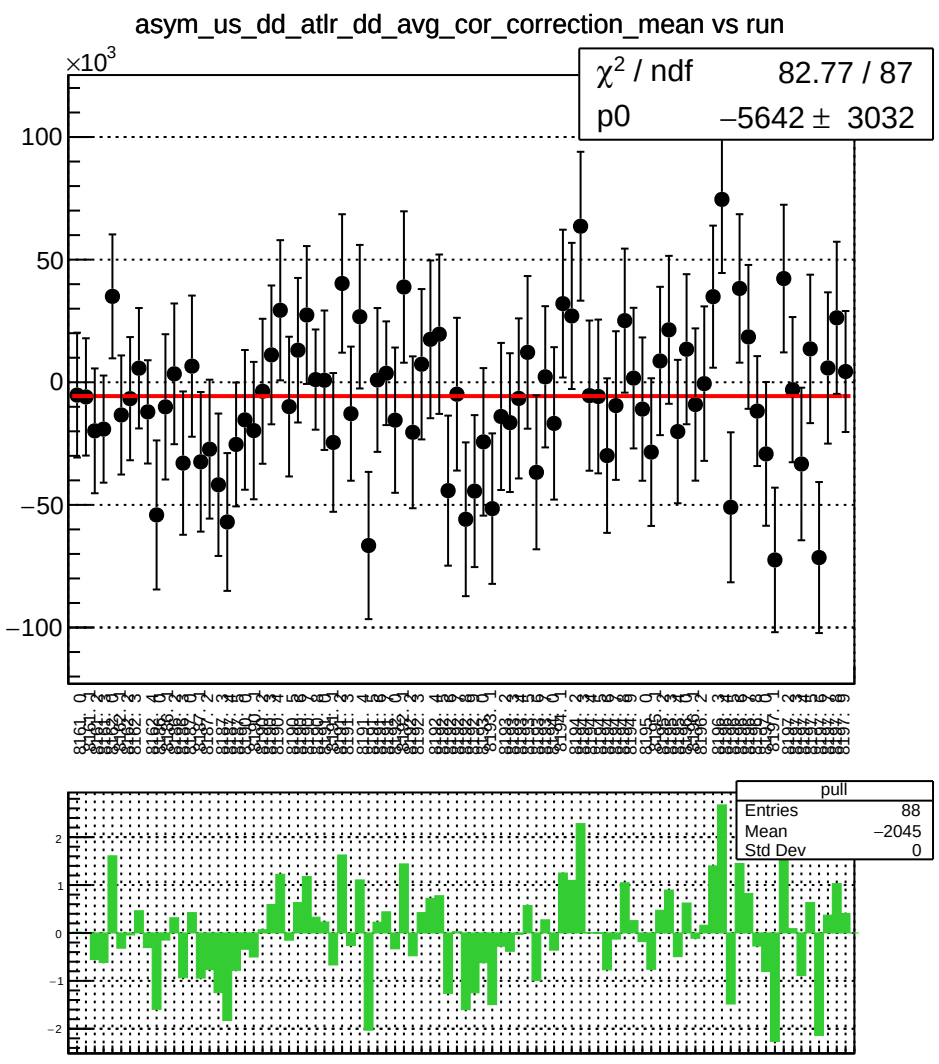

pull1D
Entries 88
Mean −0.001501
Std Dev 0.9698
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

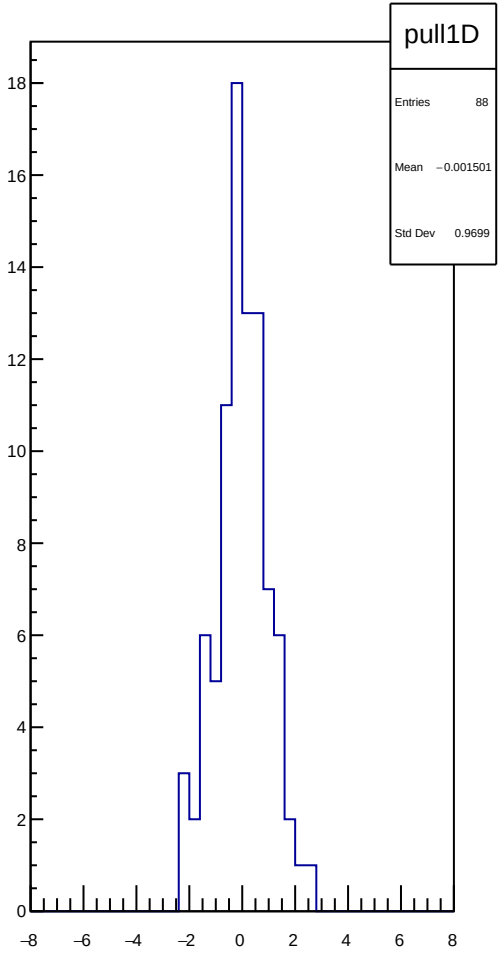

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 8381 / 87
p0 2761 ± 2.144
3200
3000
2800
2600
2400
2200

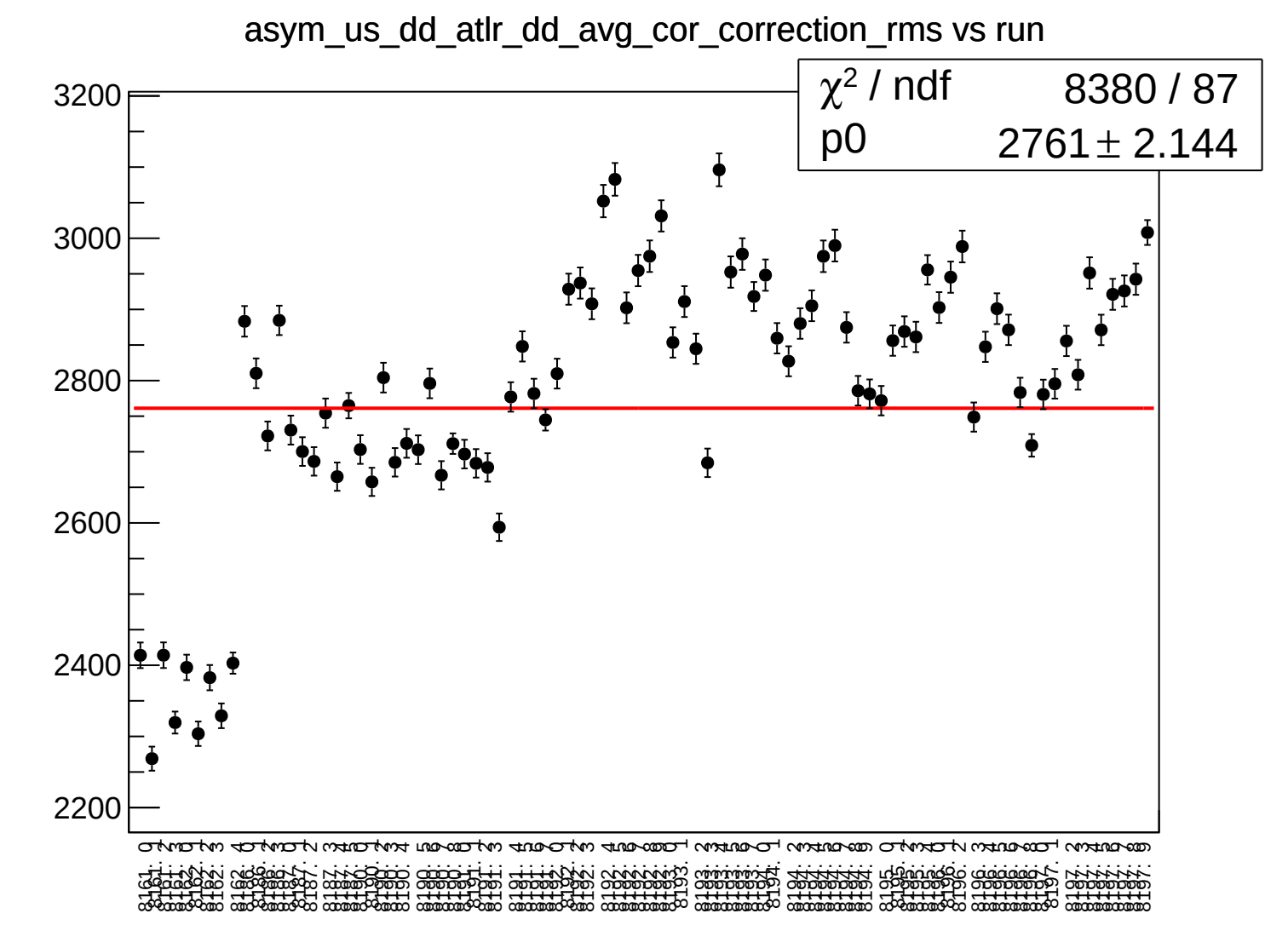

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 103.8 / 87
p0 −113.6 ± 1946
pull
Entries 88
Mean −114.7
Std Dev 0

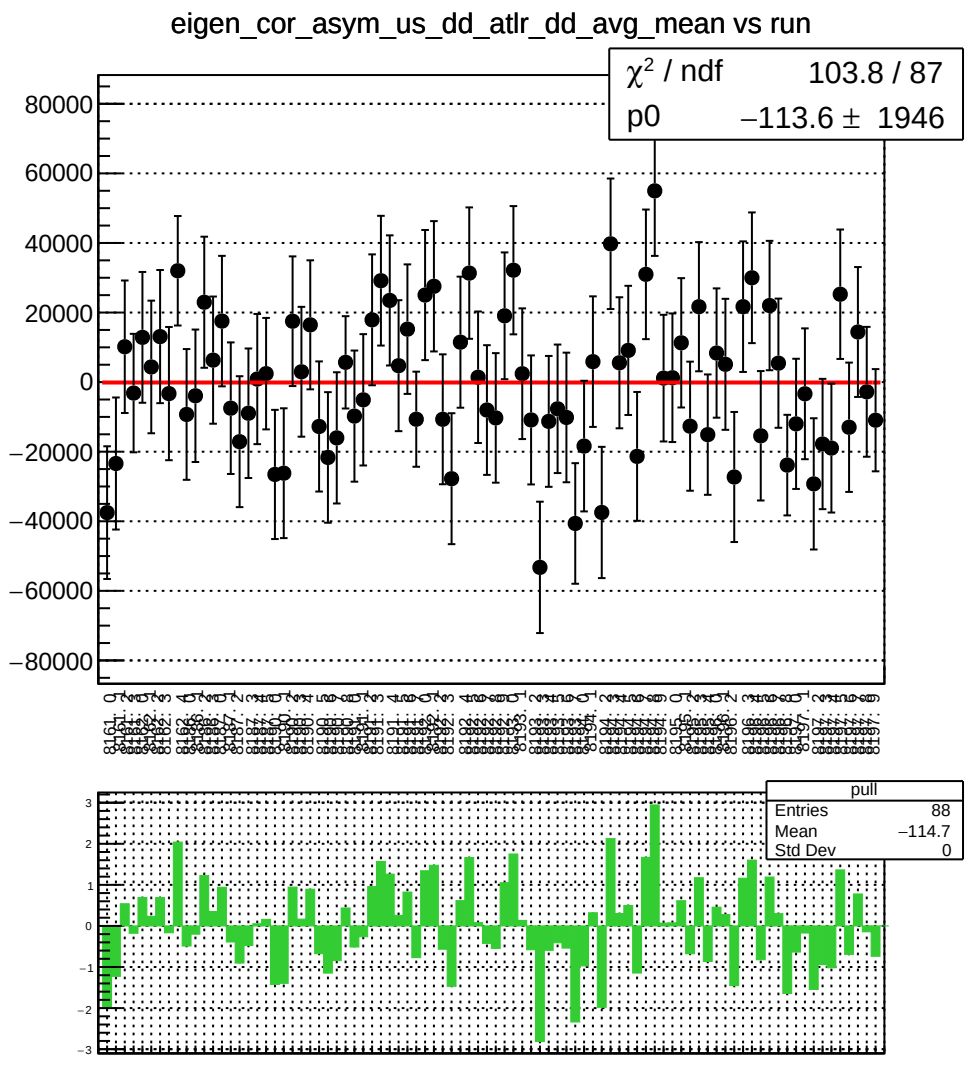

pull1D
Entries 88
Mean 0.005951
Std Dev 1.086

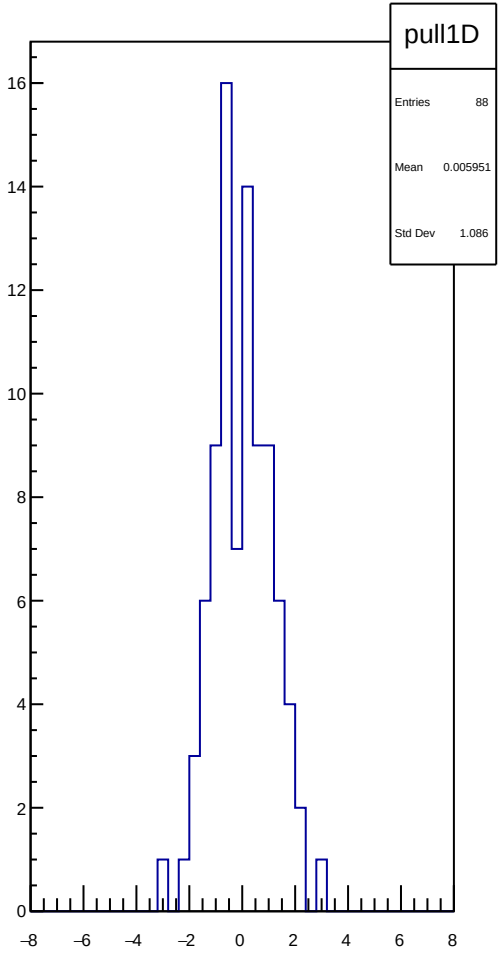

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 135 / 87
p0 1777 ± 1.376
1820
1800
1780
1760
1740

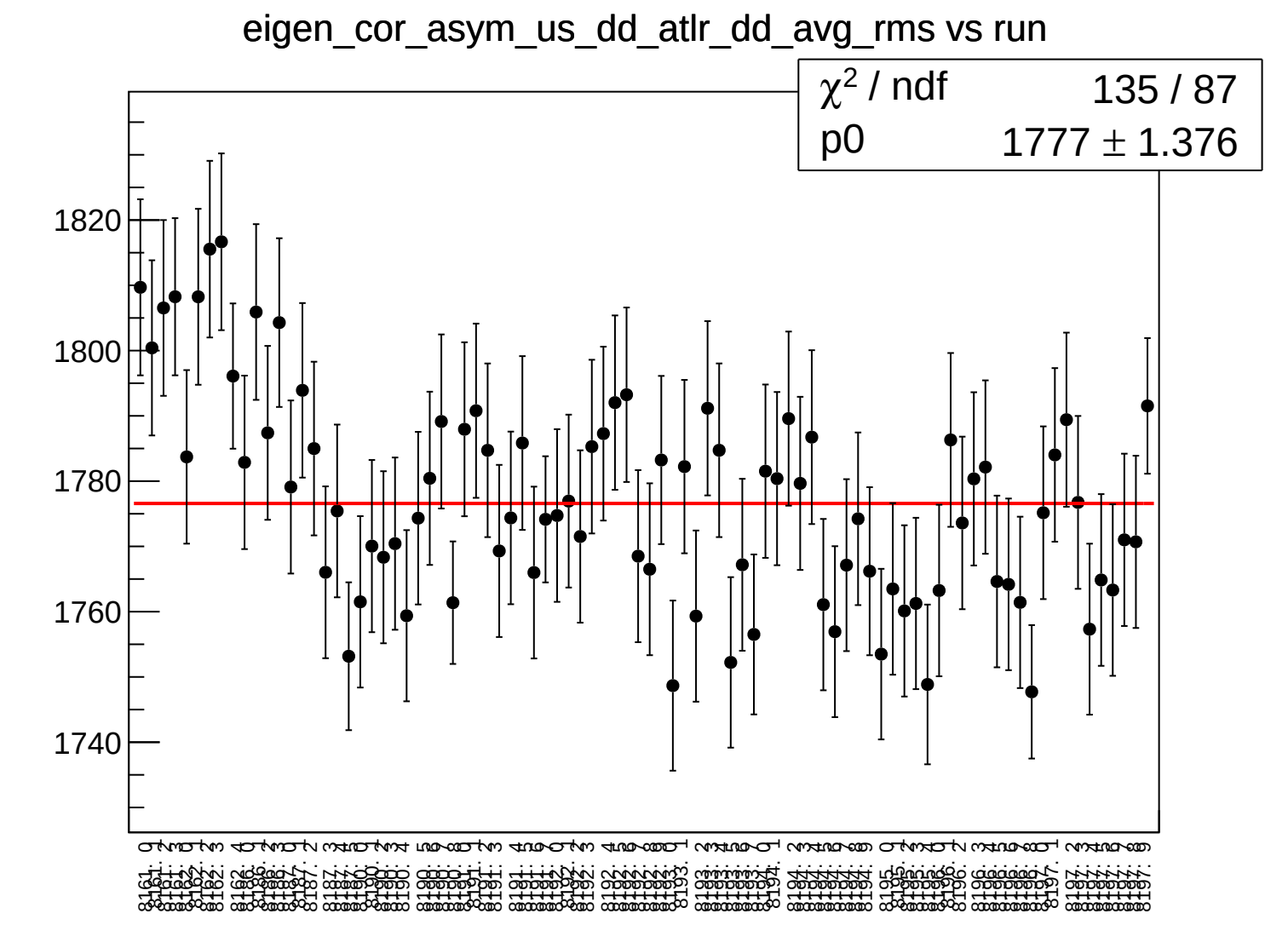

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.77 / 87
p0 −5642 ± 3032
100
50
0
−50
−100
pull
Entries 88
Mean −2045
Std Dev 0
2
1
0
−1
−2

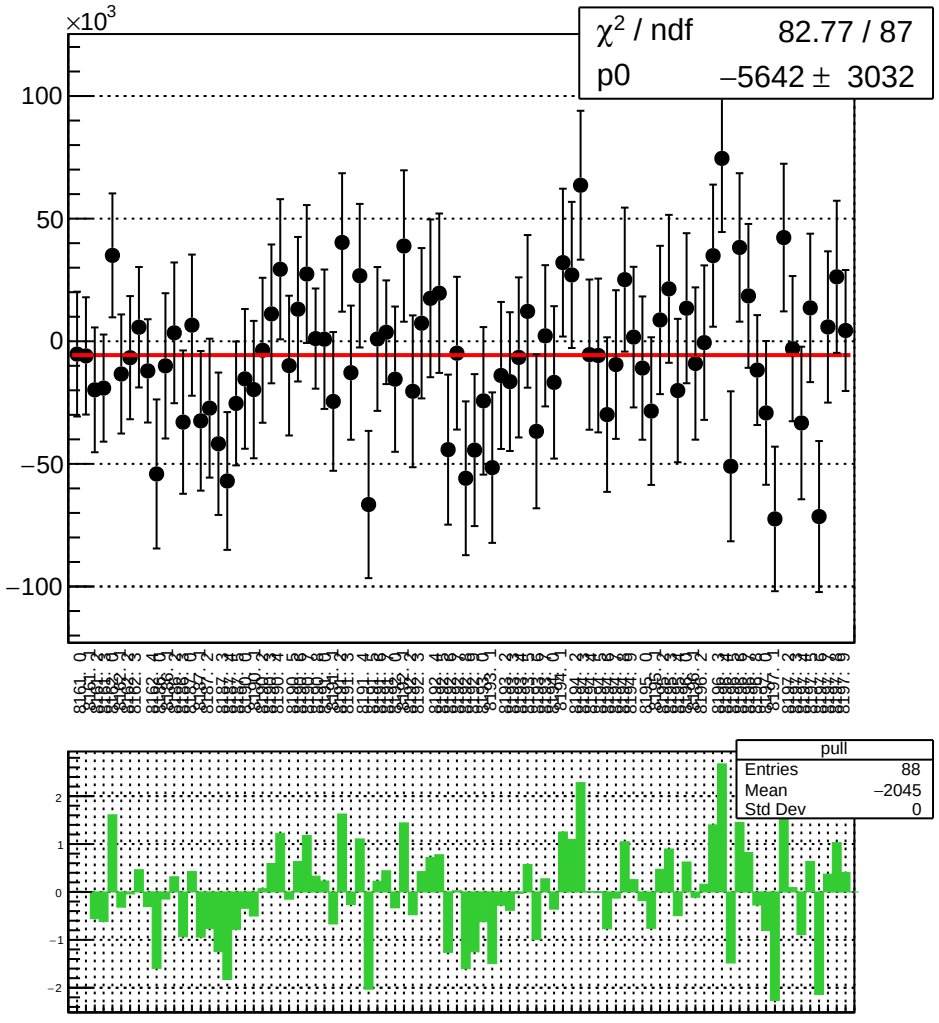

pull1D
Entries 88
Mean −0.001501
Std Dev 0.9699
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

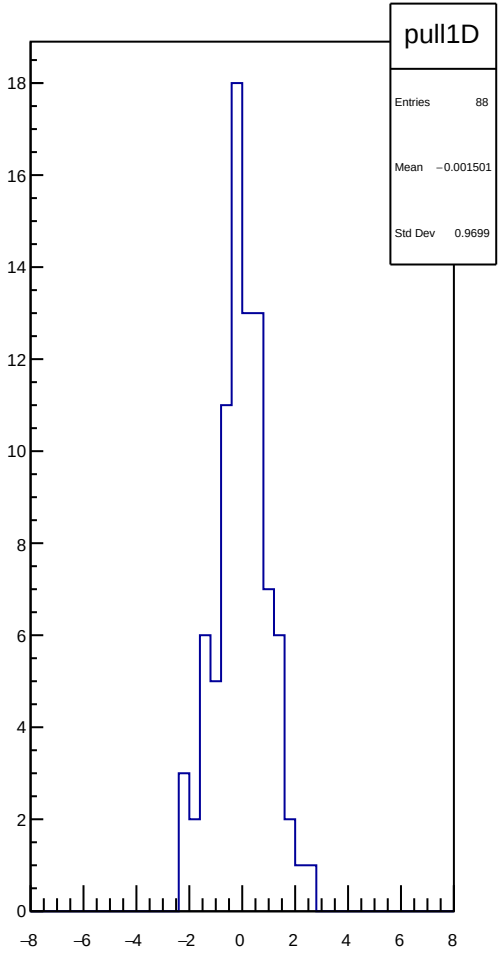

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 8380 / 87
p0 2761 ± 2.144
3200
3000
2800
2600
2400
2200

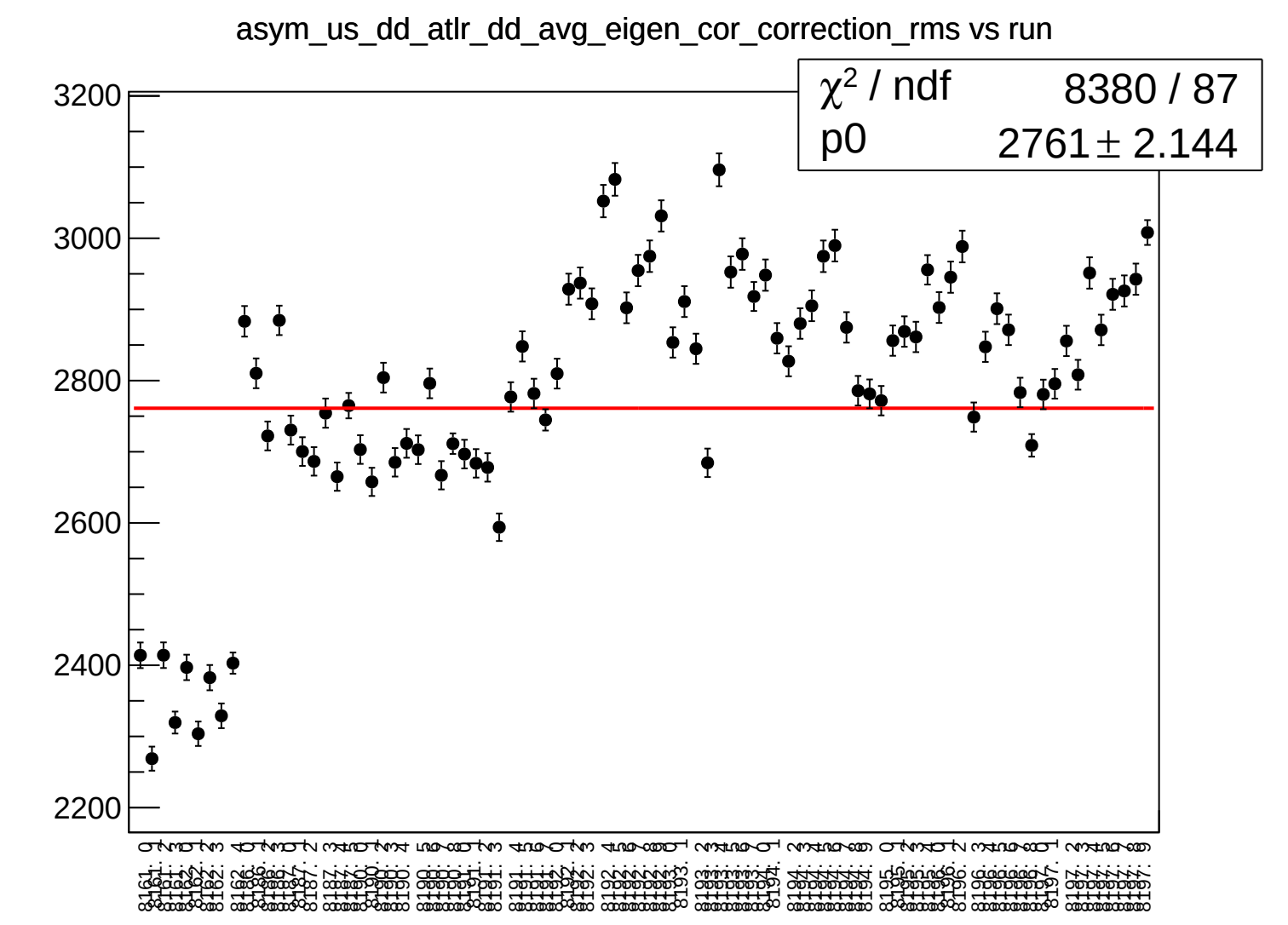

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 103.8 / 87
p0 −113.6 ± 1946
pull
Entries 88
Mean −114.7
Std Dev 0

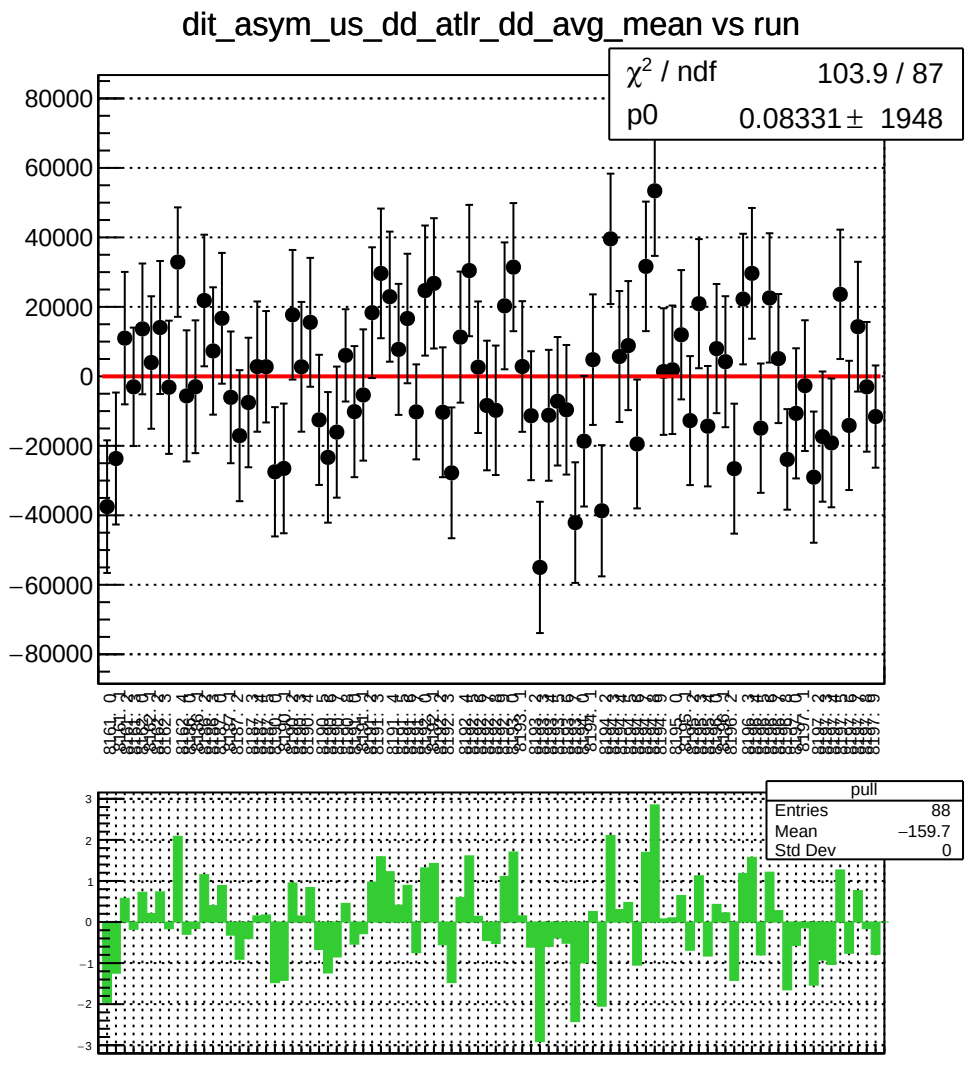

pull1D
Entries 88
Mean 0.005951
Std Dev 1.086

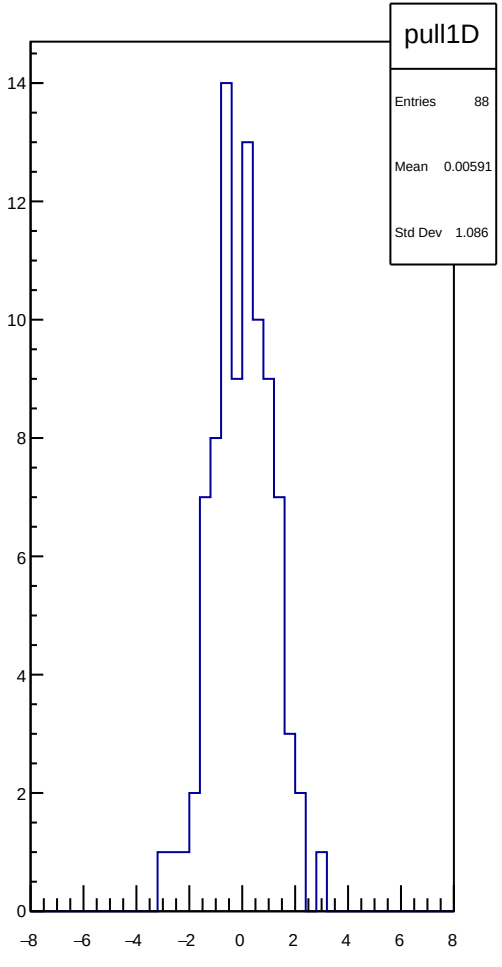

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 135 / 87
p0 1777 ± 1.376
1820
1800
1780
1760
1740

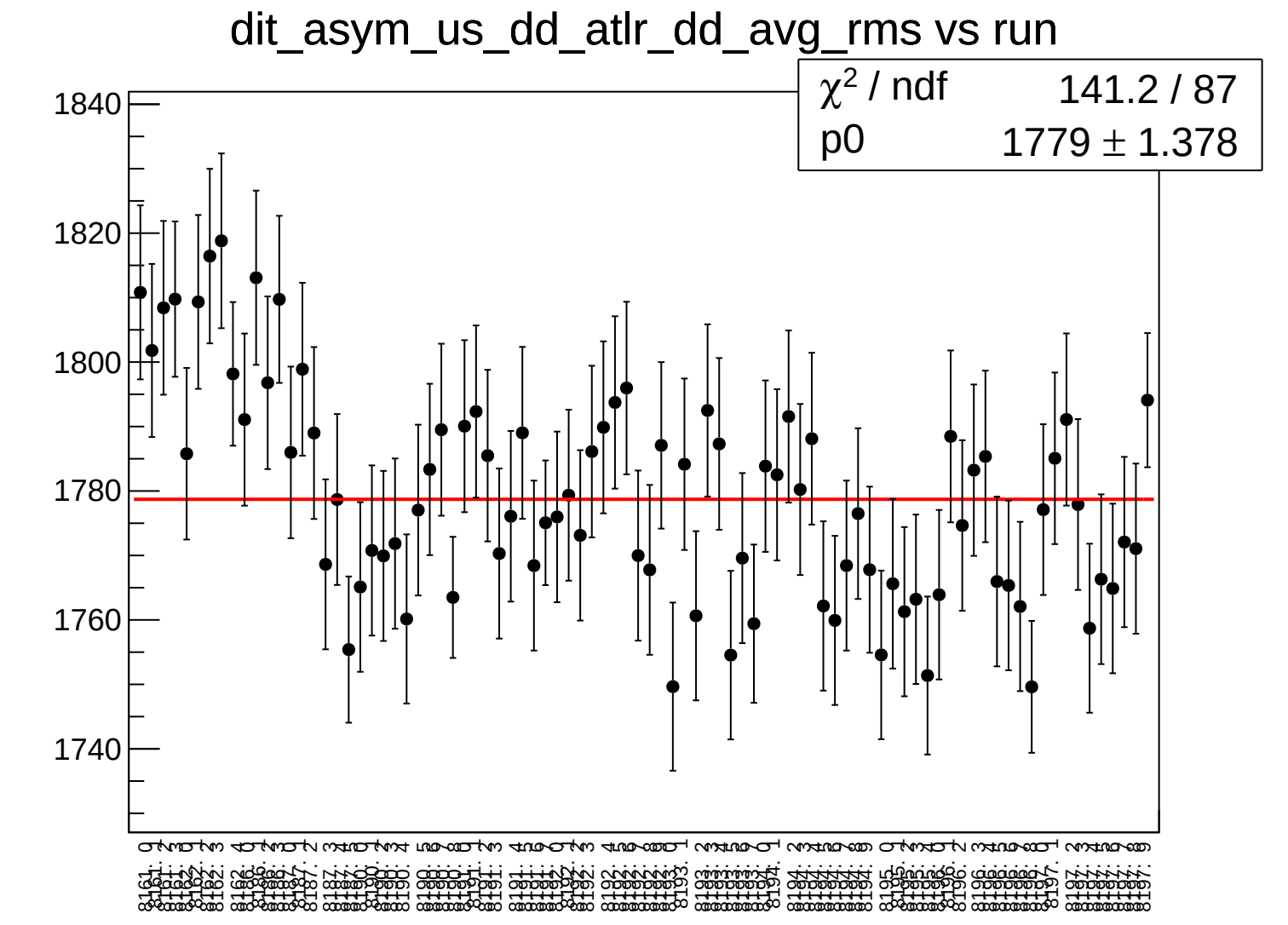

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.77 / 87
p0 −5642 ± 3032
100
50
0
−50
−100
pull
Entries 88
Mean −2045
Std Dev 0
2
1
0
−1
−2

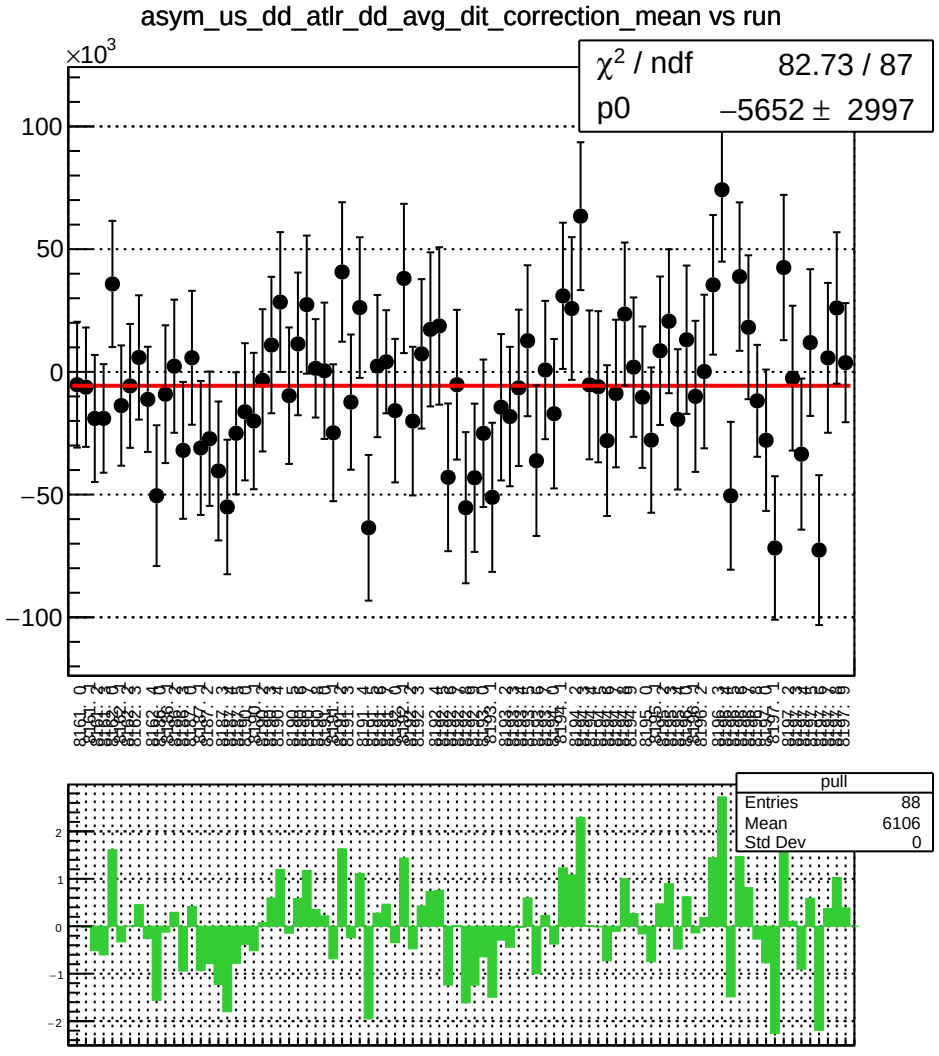

pull1D
Entries 88
Mean −0.001501
Std Dev 0.9699
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

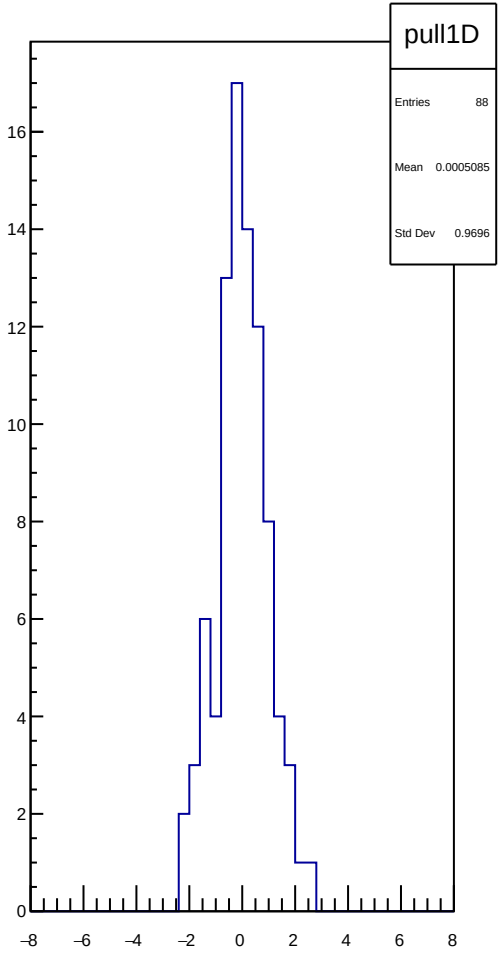

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8380 / 87
p0 2761 ± 2.144
3200
3000
2800
2600
2400
2200

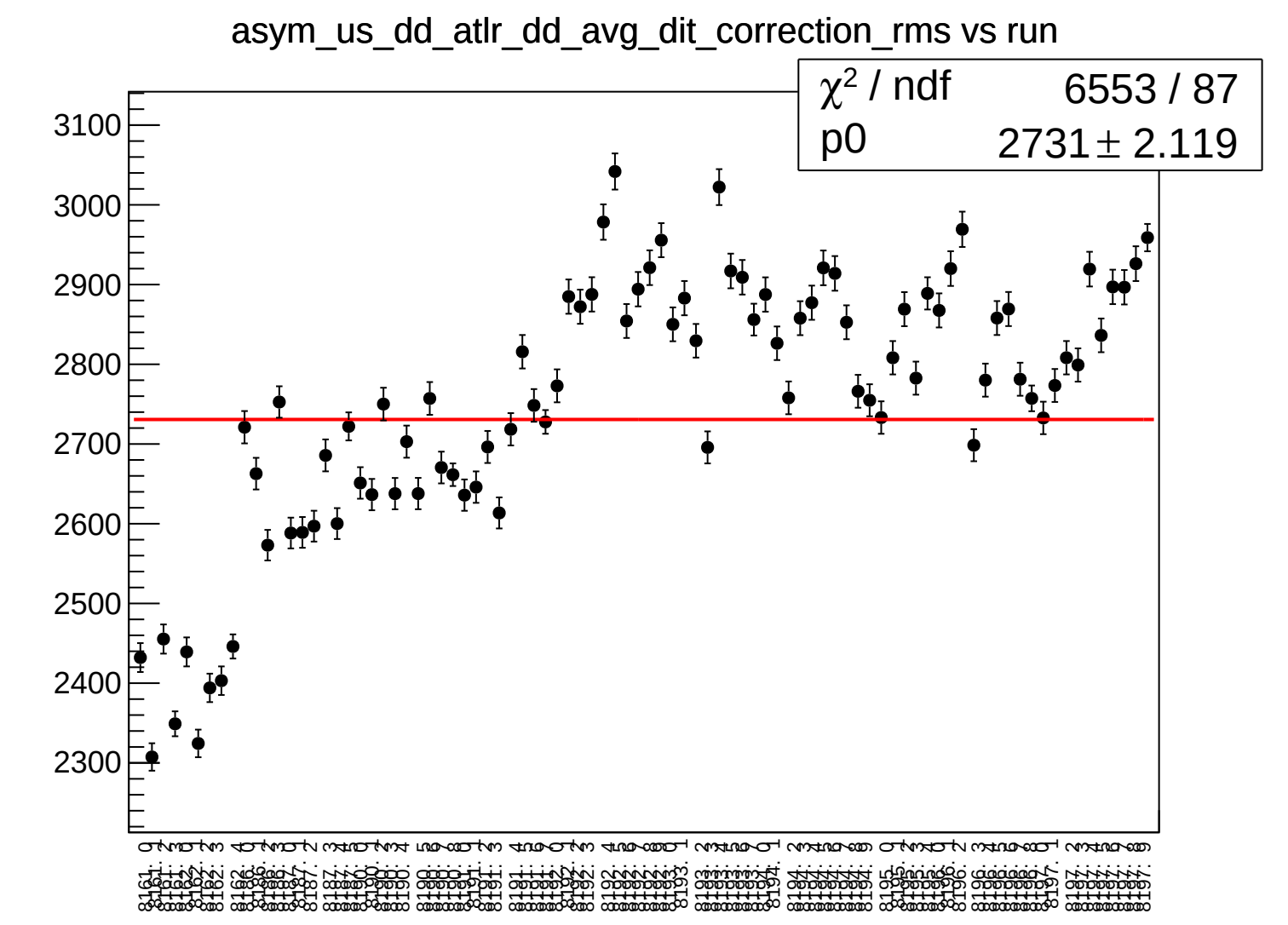

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 103.9 / 87
p0 0.08331 ± 1948
pull
Entries 88
Mean −159.7
Std Dev 0

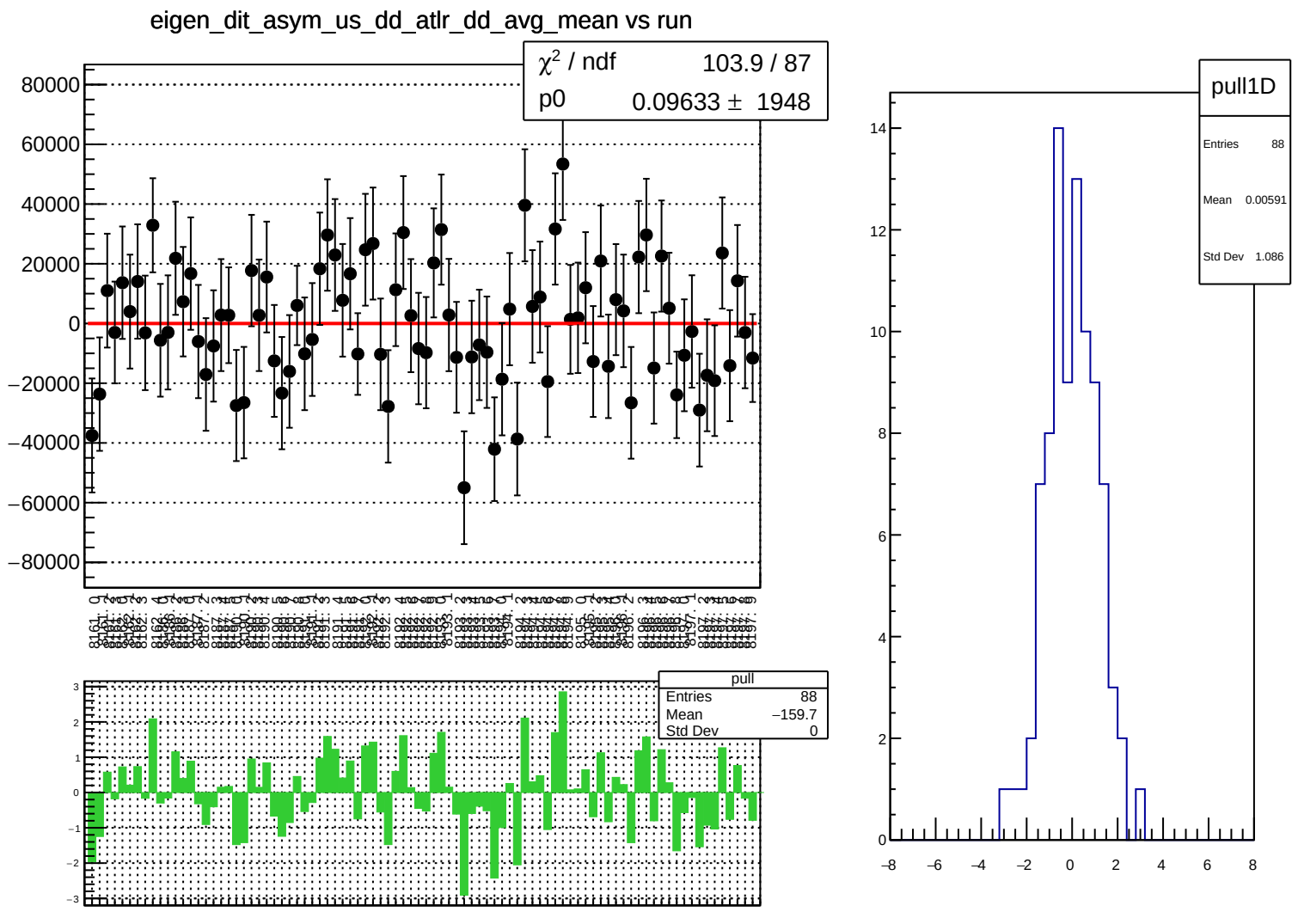

pull1D
Entries 88
Mean 0.00591
Std Dev 1.086

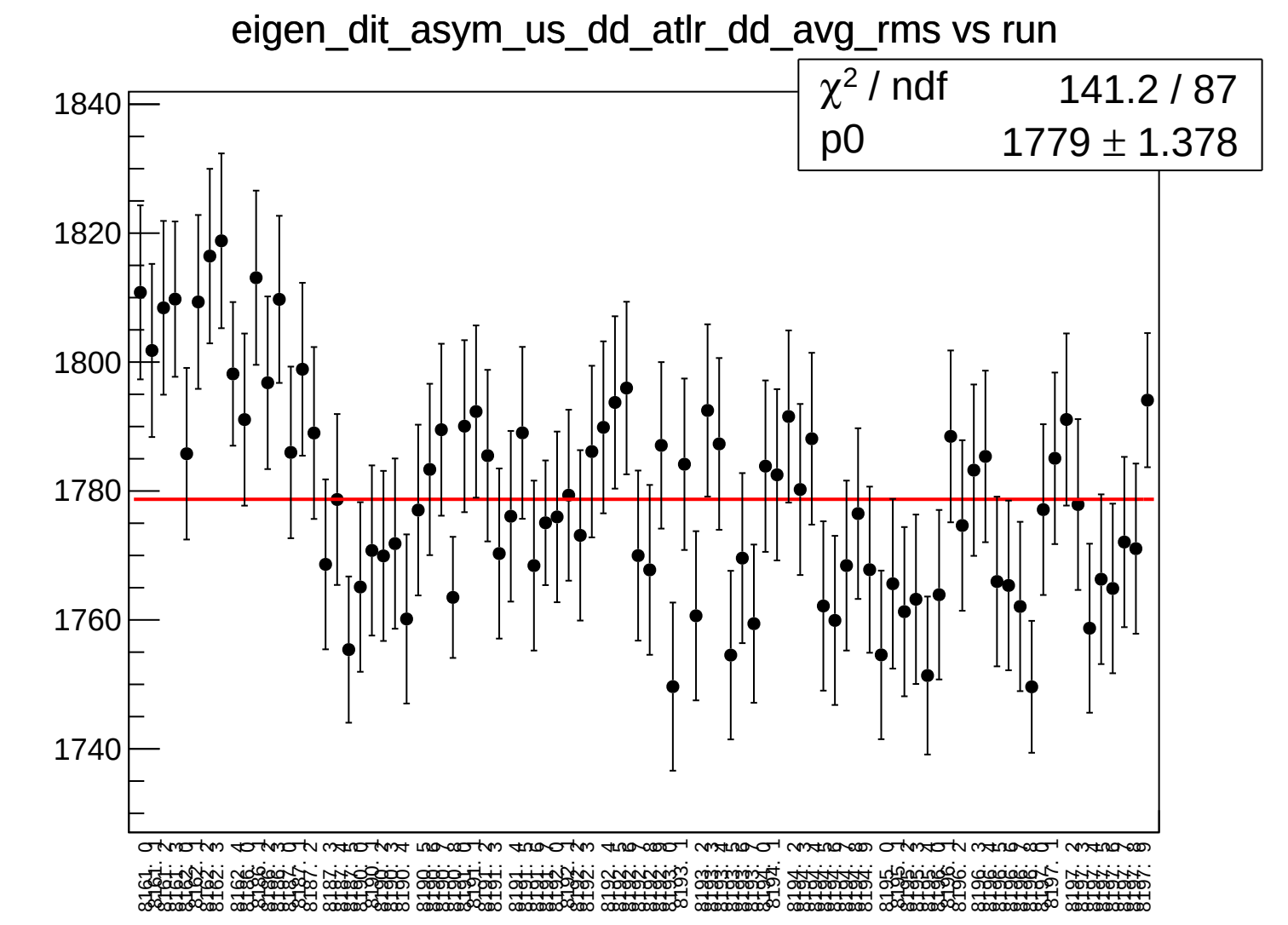

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 141.2 / 87
p0 1779 ± 1.378
1840
1820
1800
1780
1760
1740

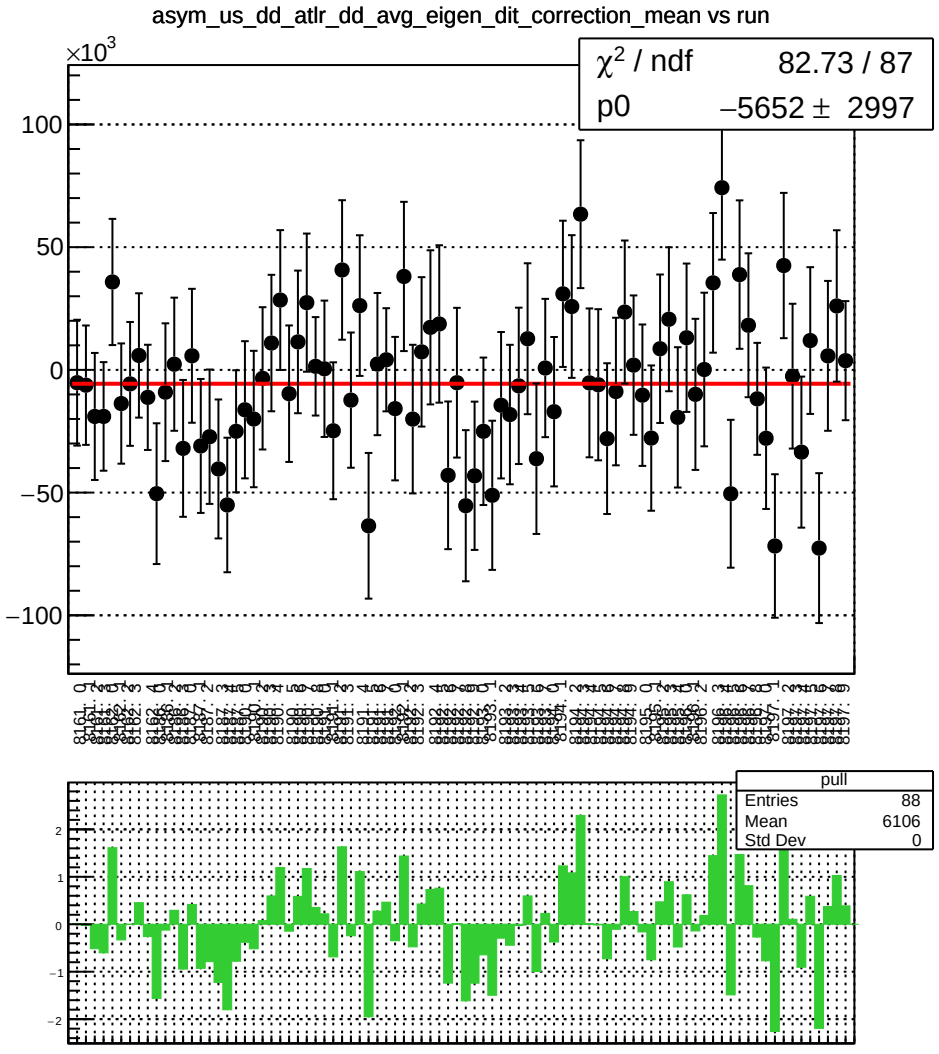

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.73 / 87
p0 −5652 ± 2997
100
50
0
−50
−100
pull
Entries 88
Mean 6106
Std Dev 0
2
1
0
−1
−2

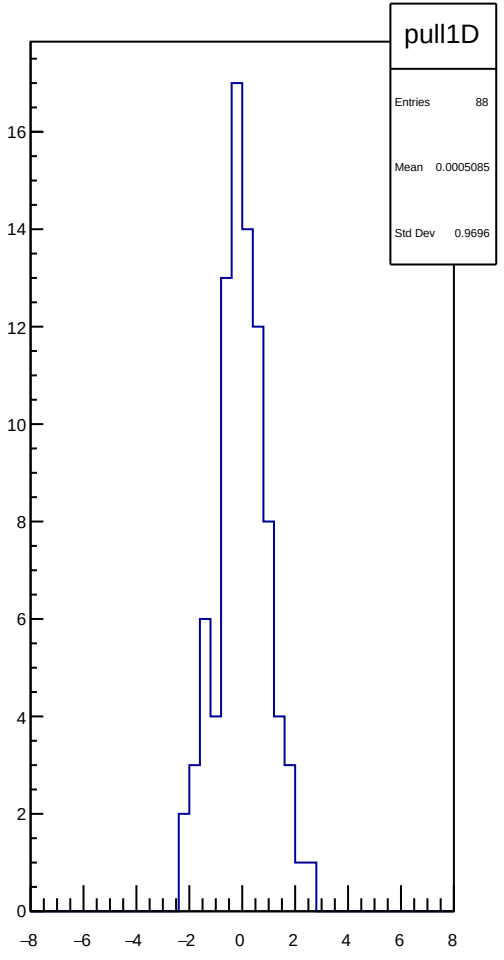

pull1D
Entries 88
Mean 0.0005085
Std Dev 0.9696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

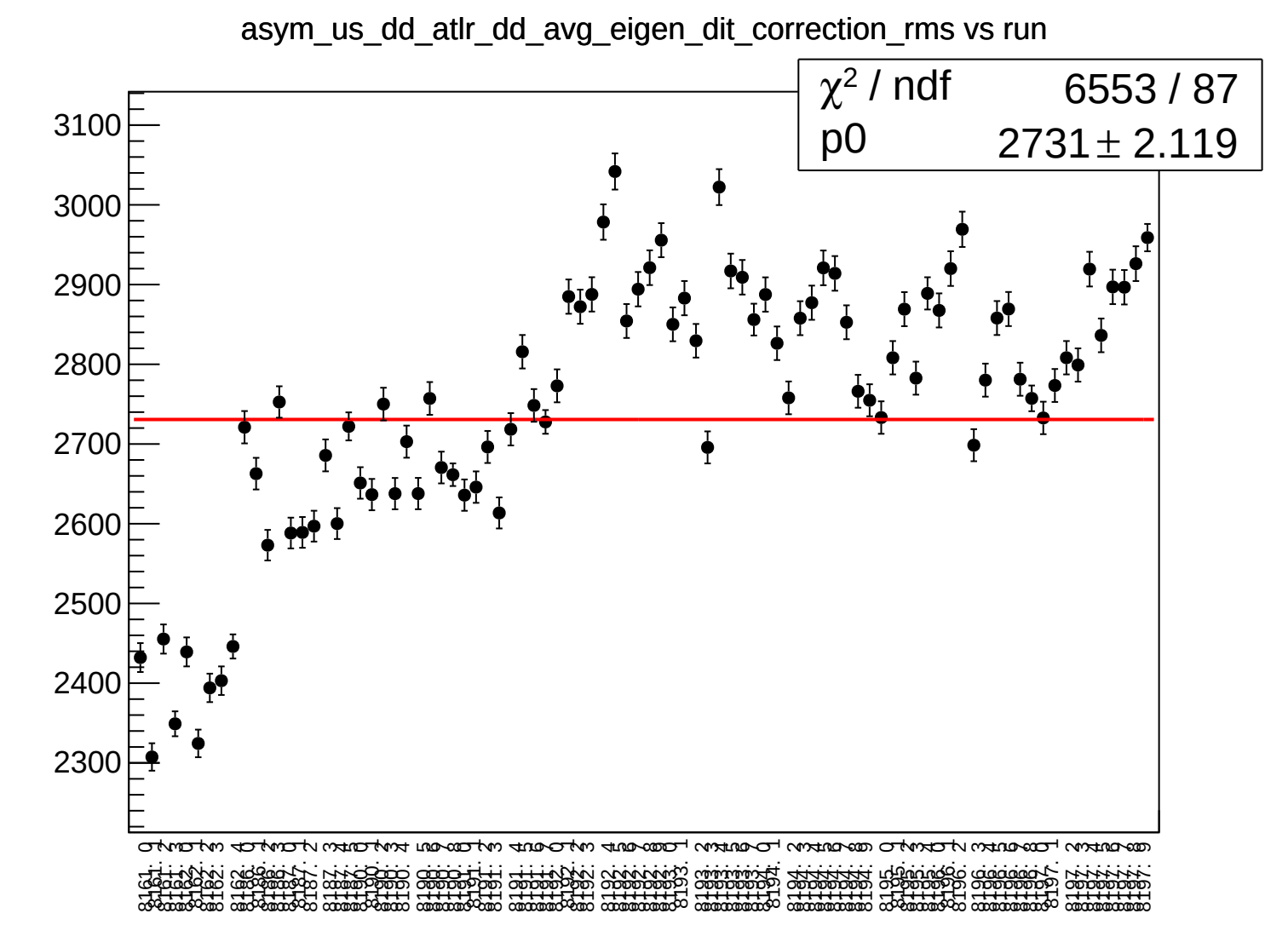

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 6553 / 87
p0 2731 ± 2.119
3100
3000
2900
2800
2700
2600
2500
2400
2300

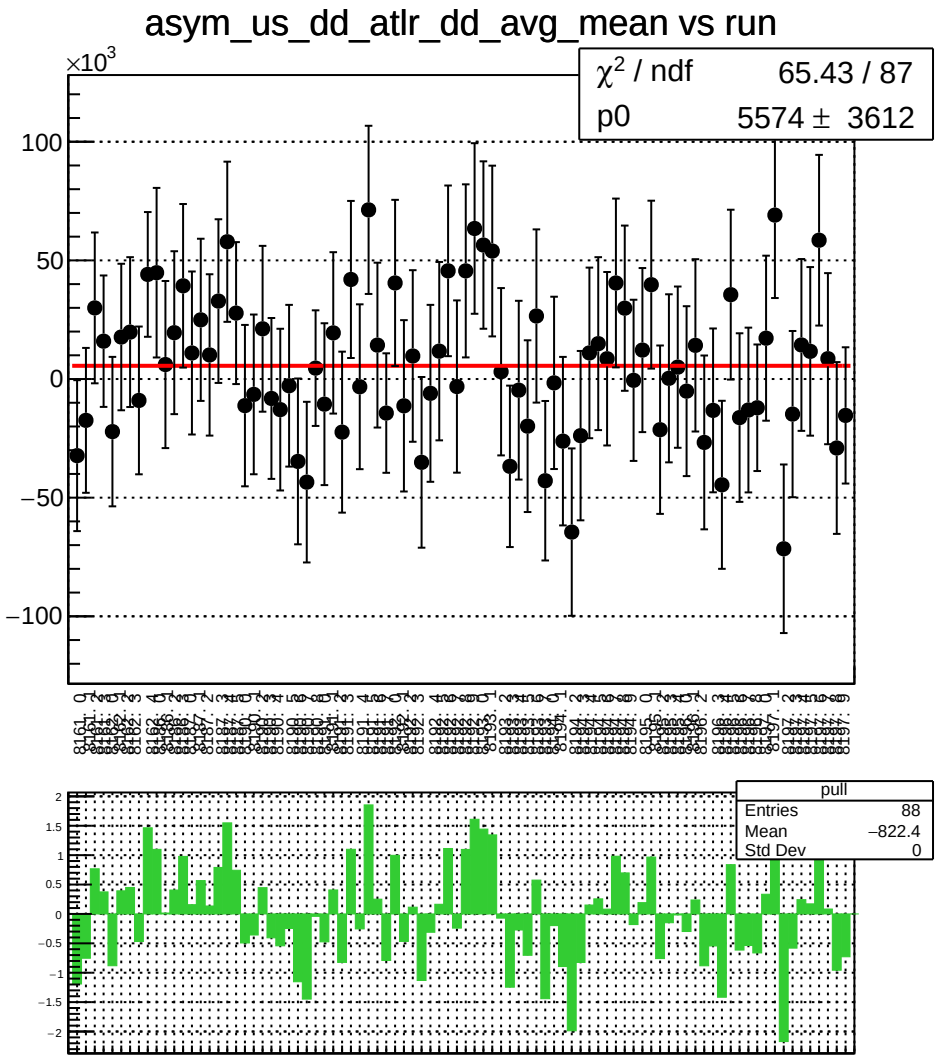

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 103.9 / 87
p0 0.09633 ± 1948
pull
Entries 88
Mean −159.7
Std Dev 0
pull1D
Entries 88
Mean 0.00591
Std Dev 1.086

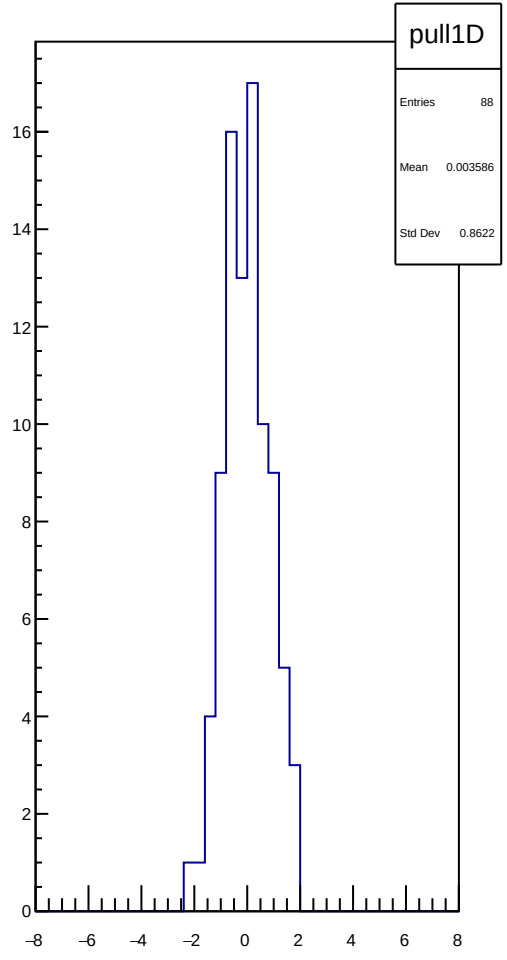

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 141.2 / 87
p0 1779 ± 1.378
1840
1820
1800
1780
1760
1740

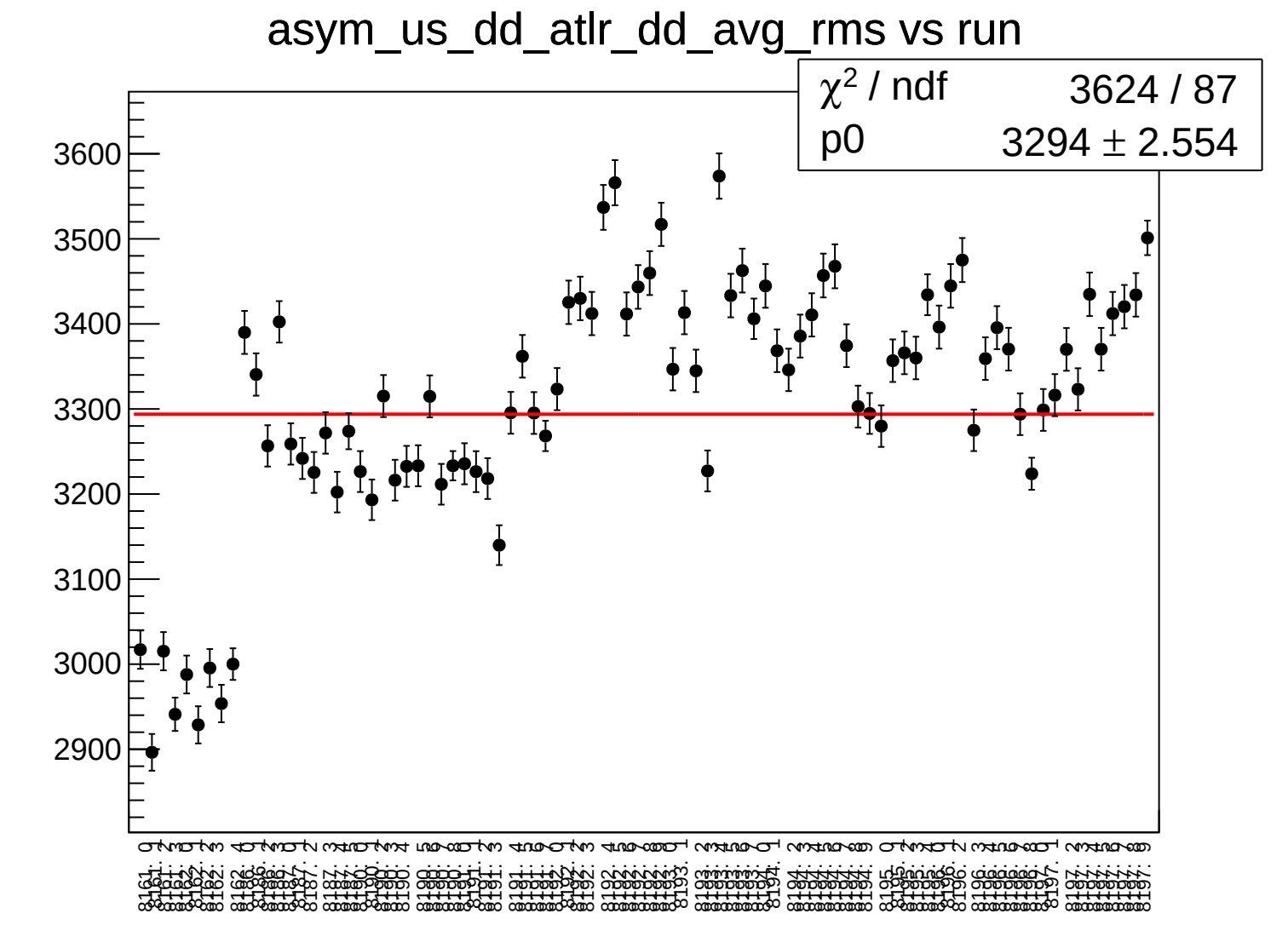

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.73 / 87
p0 −5652 ± 2997
100
50
0
−50
−100
pull
Entries 88
Mean 6106
Std Dev 0
2
1
0
−1
−2

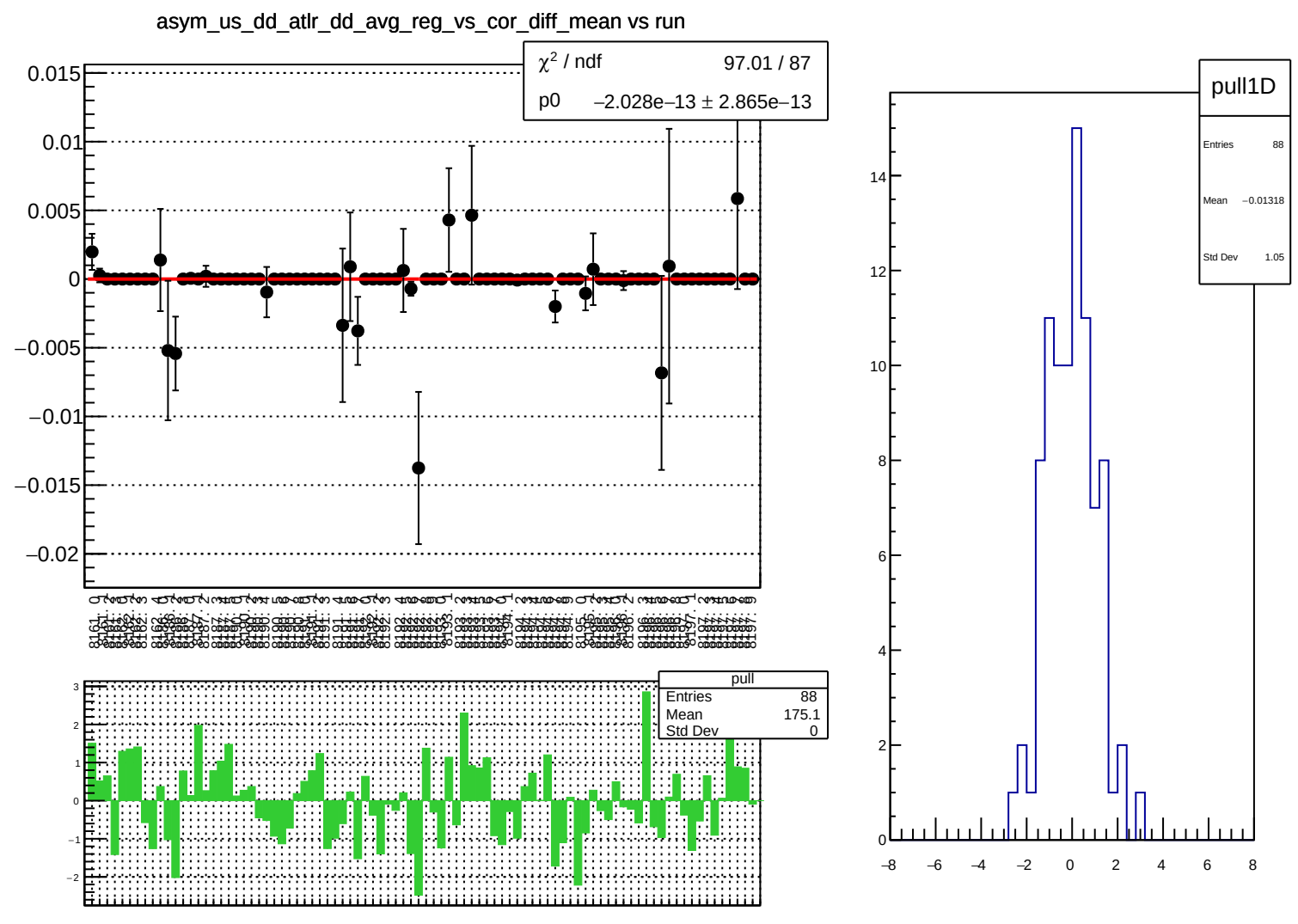

pull1D
Entries 88
Mean 0.0005085
Std Dev 0.9696
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

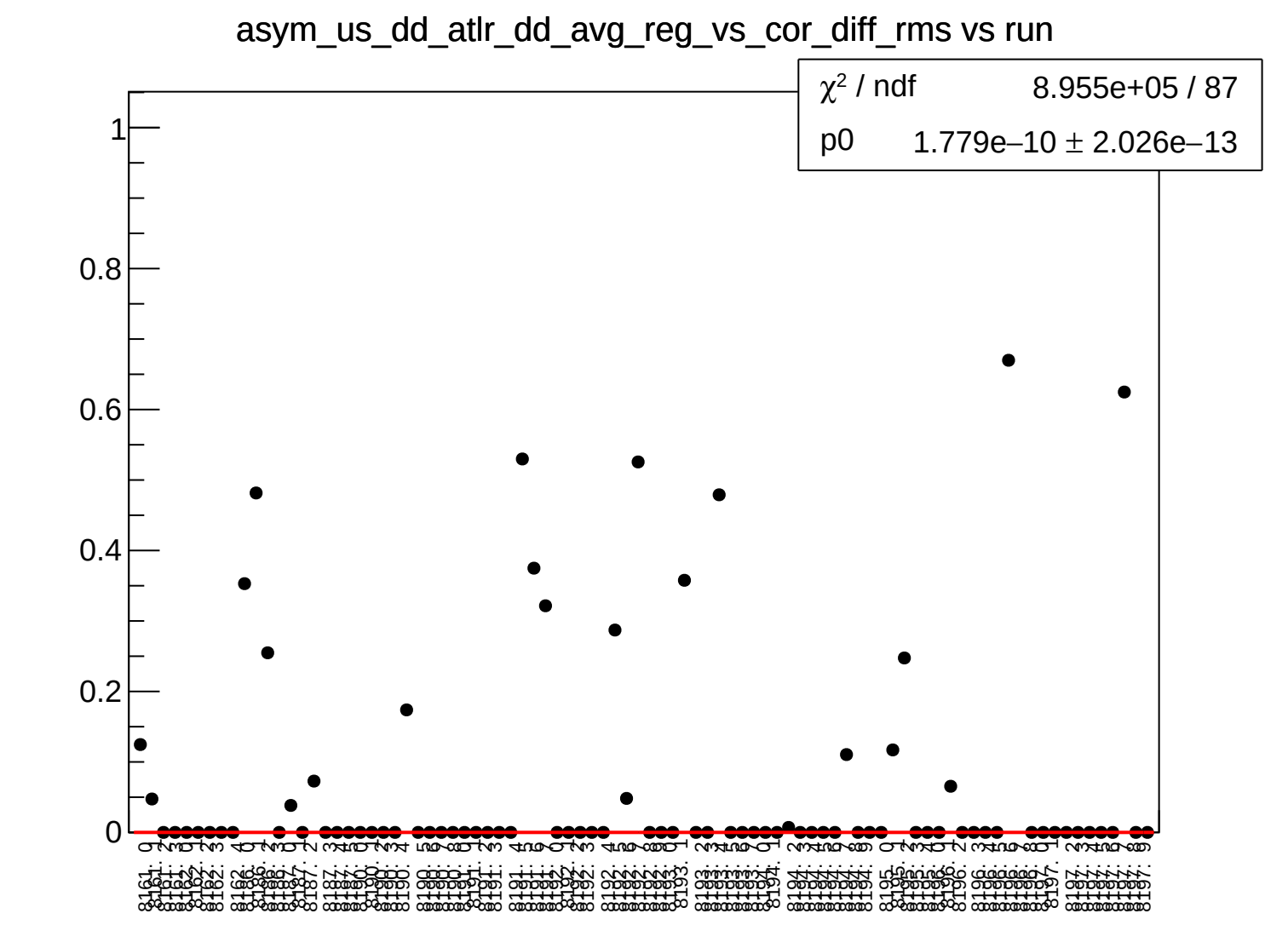

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6553 / 87
p0 2731 ± 2.119
3100
3000
2900
2800
2700
2600
2500
2400
2300

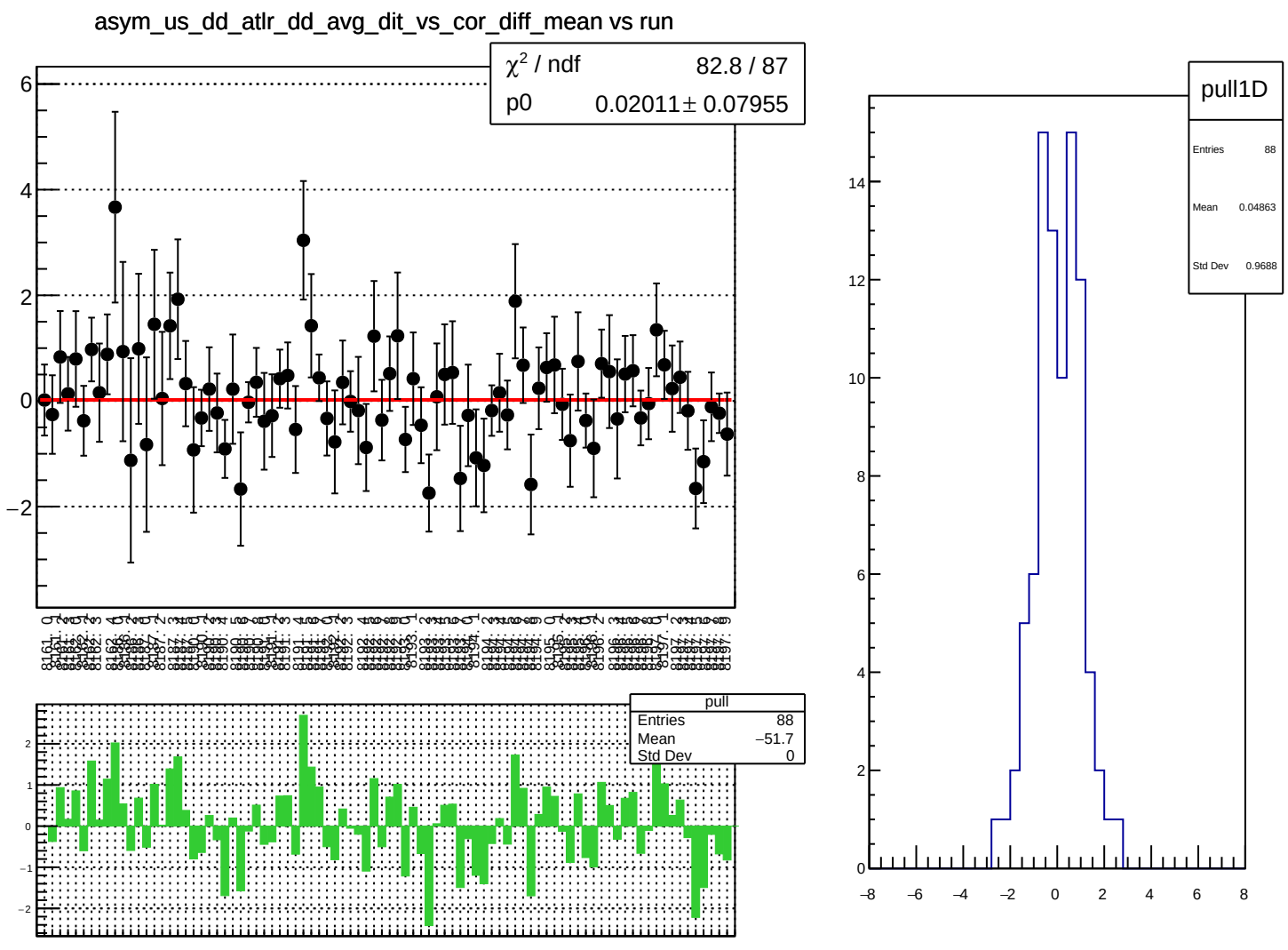

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 65.43 / 87
p0 5574 ± 3612
100
50
0
−50
−100
pull
Entries 88
Mean −822.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

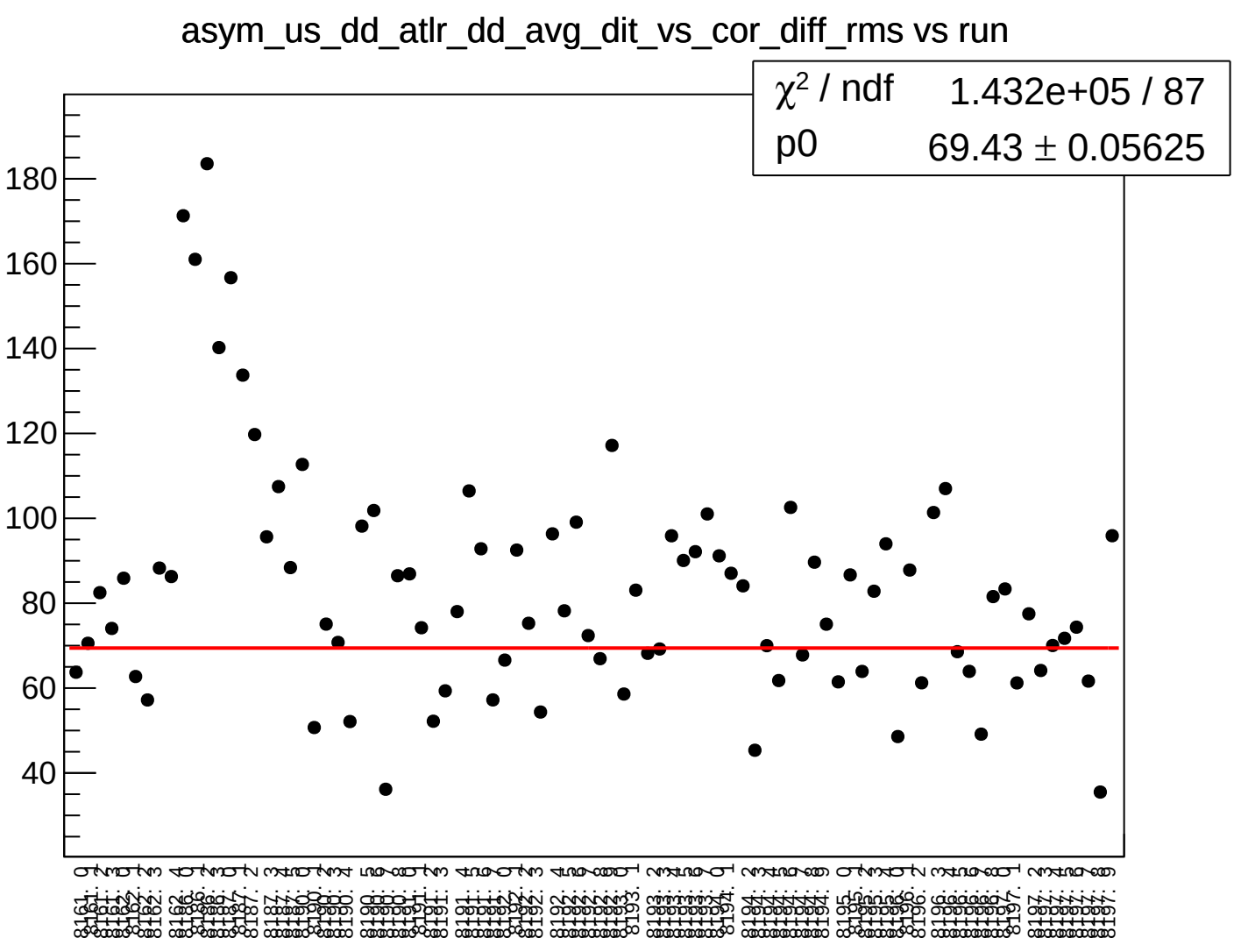

pull1D
Entries 88
Mean 0.003586
Std Dev 0.8622
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

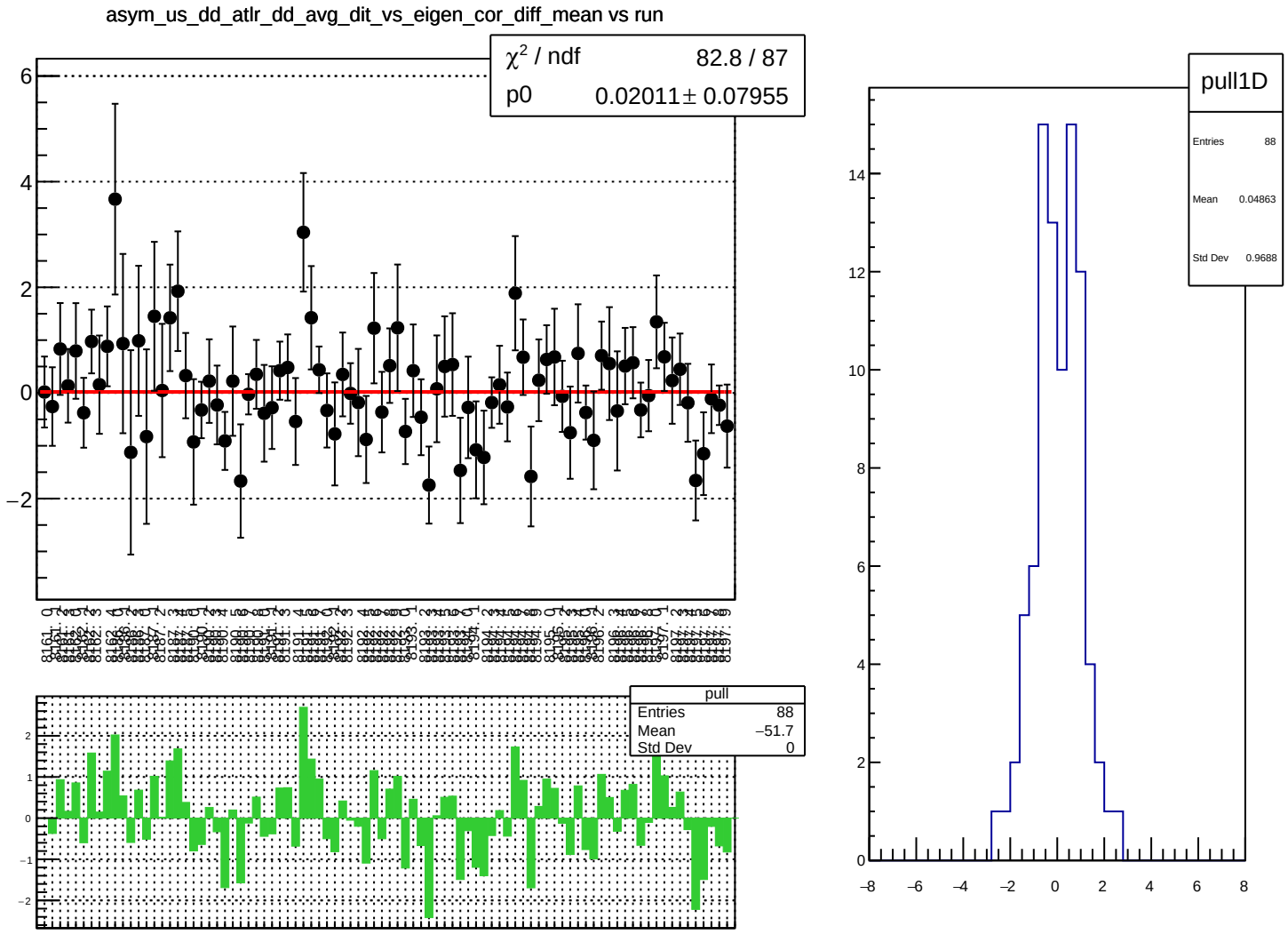

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 3624 / 87
p0 3294 ± 2.554
3600
3500
3400
3300
3200
3100
3000
2900

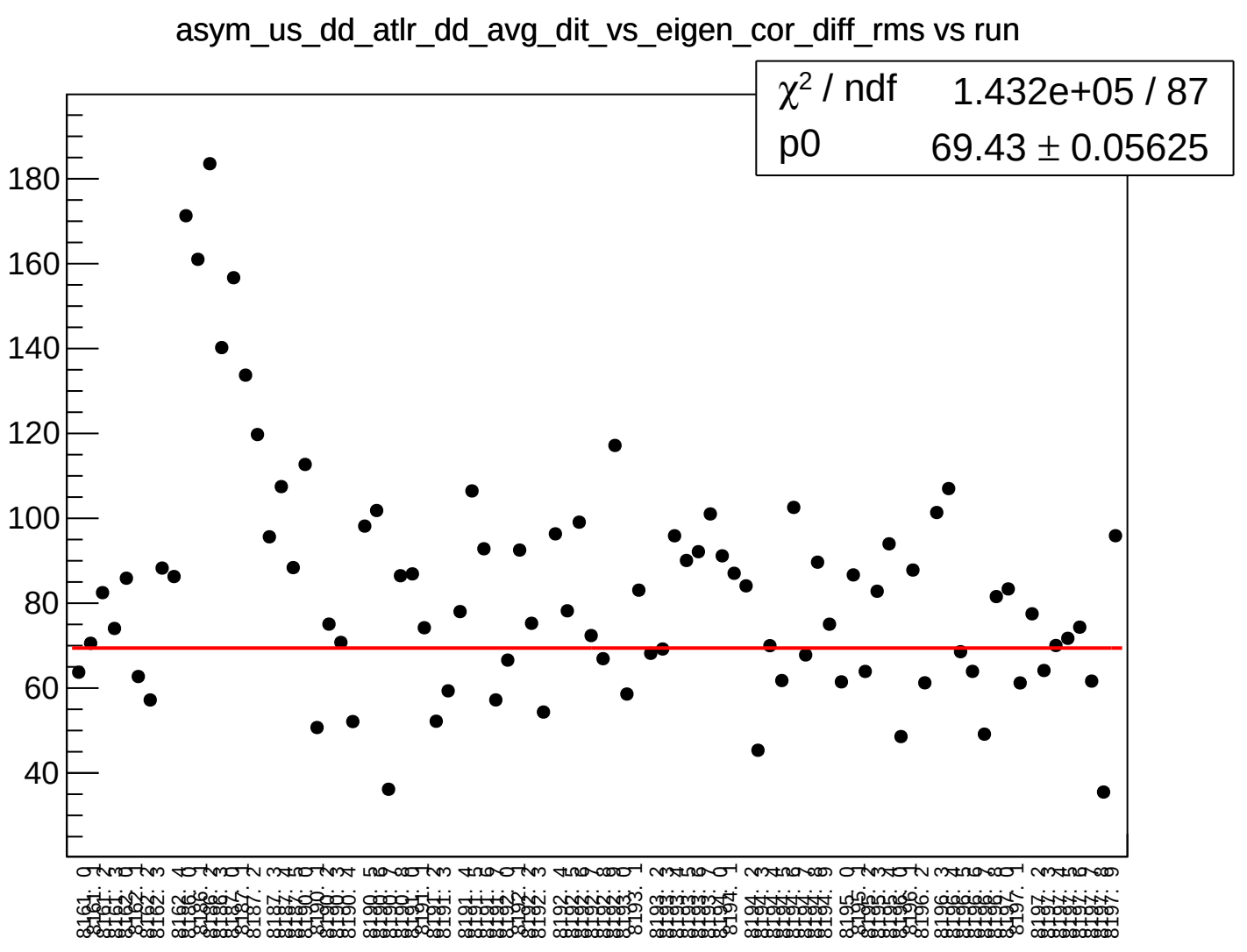

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.01 / 87
p0 −2.028e−13 ± 2.865e−13
pull
Entries 88
Mean 175.1
Std Dev 0
pull1D
Entries 88
Mean −0.01318
Std Dev 1.05

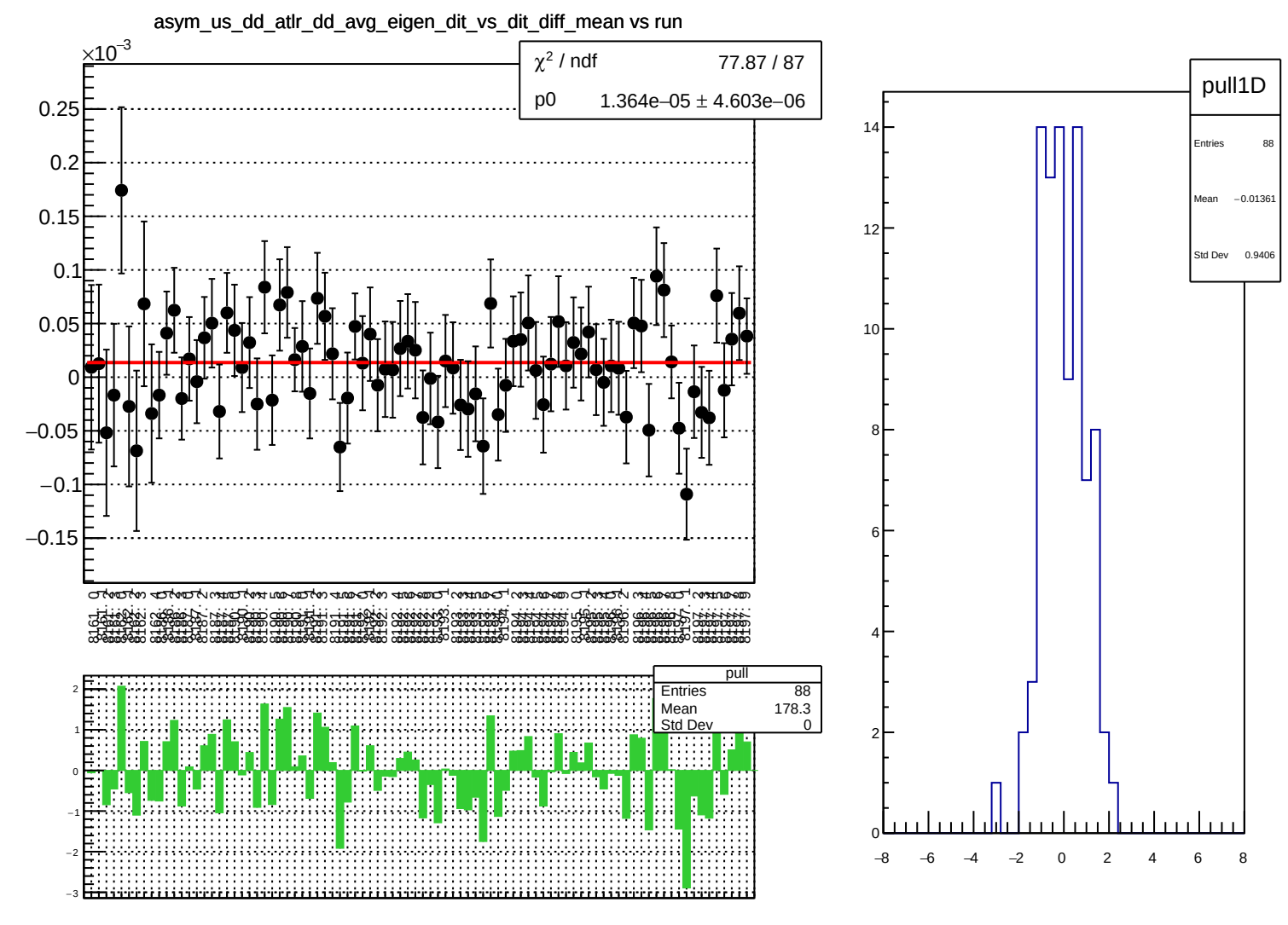

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.955e+05 / 87
p0 1.779e−10 ± 2.026e−13
1
0.8
0.6
0.4
0.2
0

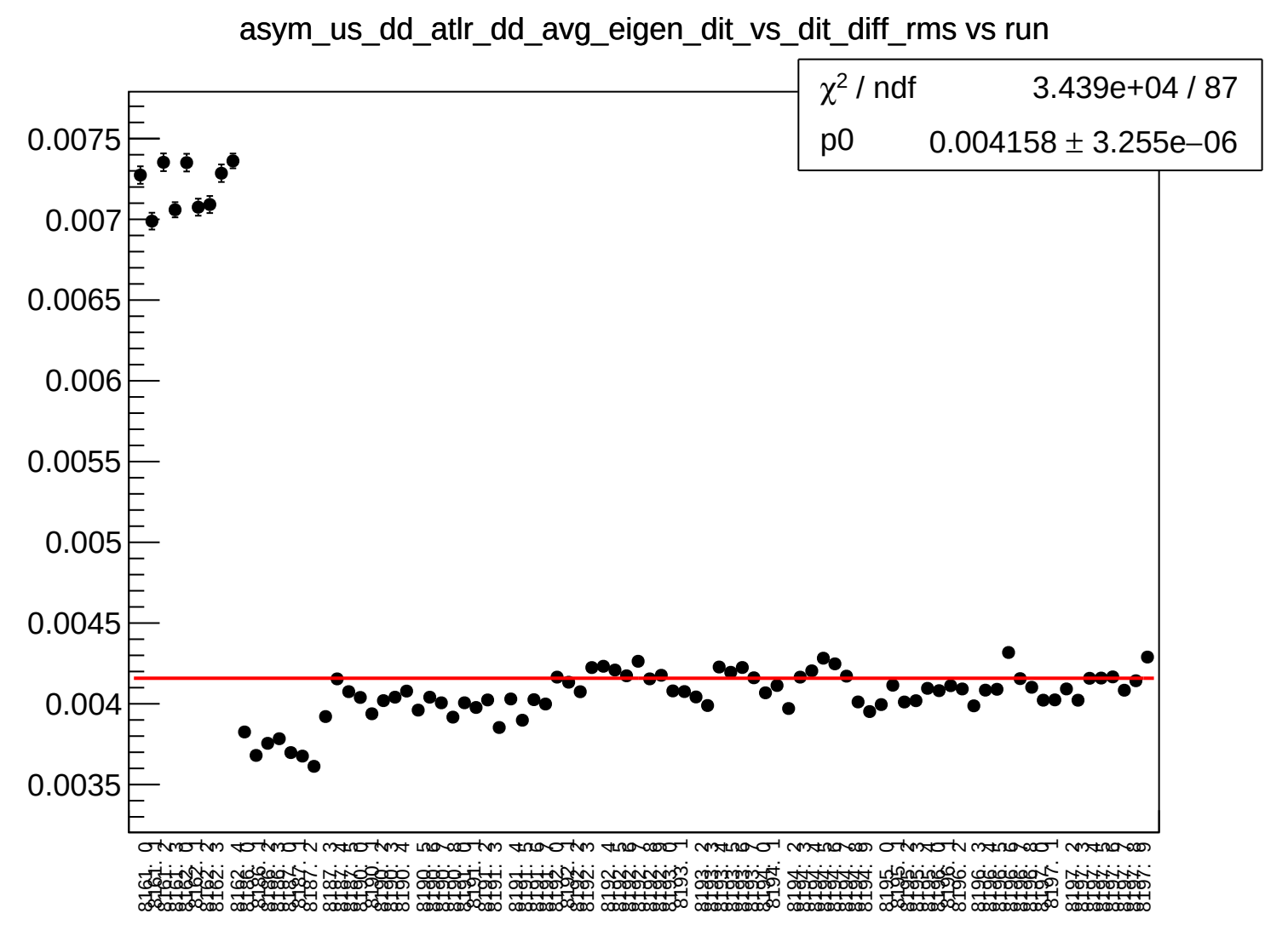

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.8 / 87
p0 0.02011 ± 0.07955
pull
Entries 88
Mean −51.7
Std Dev 0
pull1D
Entries 88
Mean 0.04863
Std Dev 0.9688

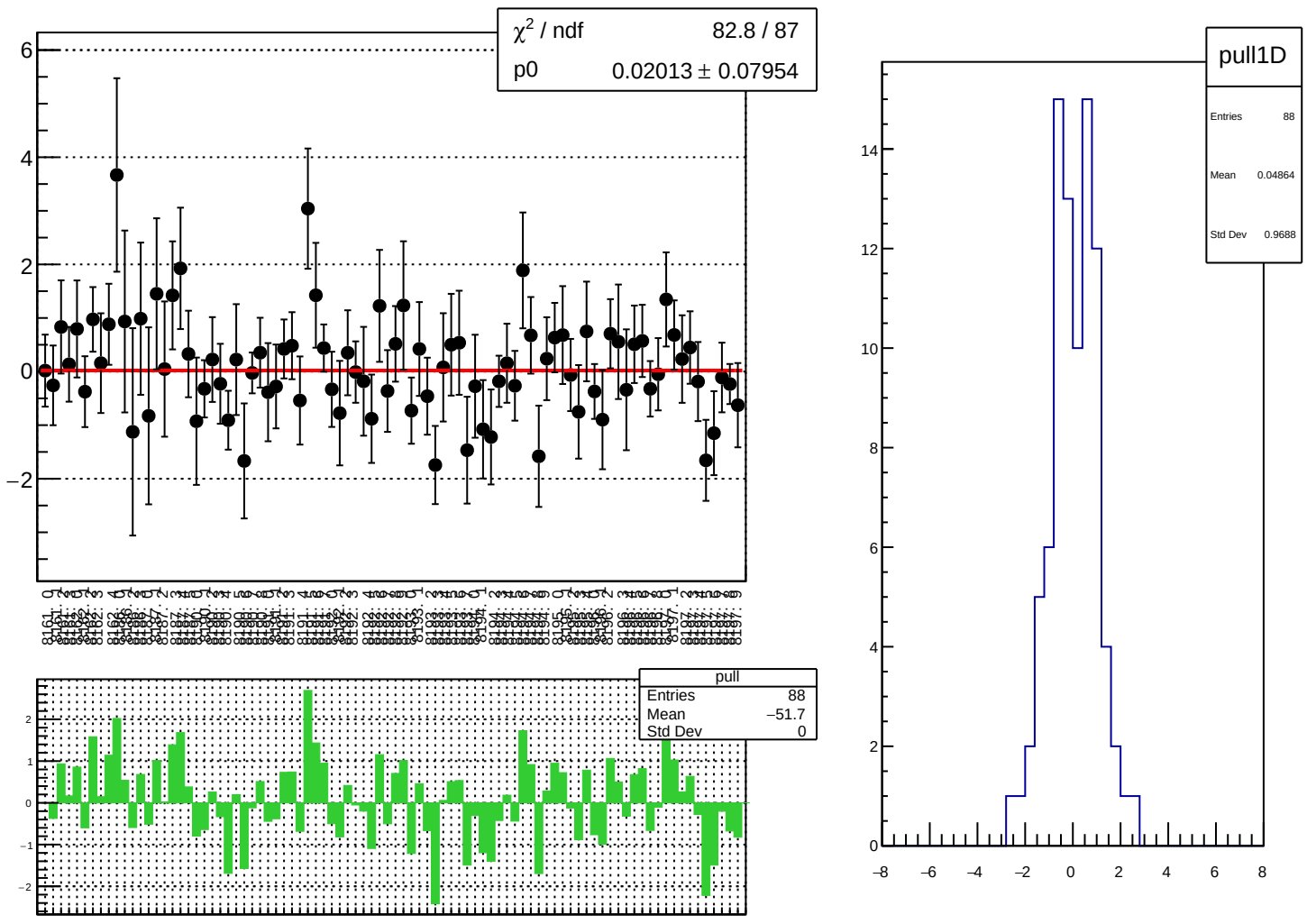

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.432e+05 / 87
p0 69.43 ± 0.05625
180
160
140
120
100
80
60
40

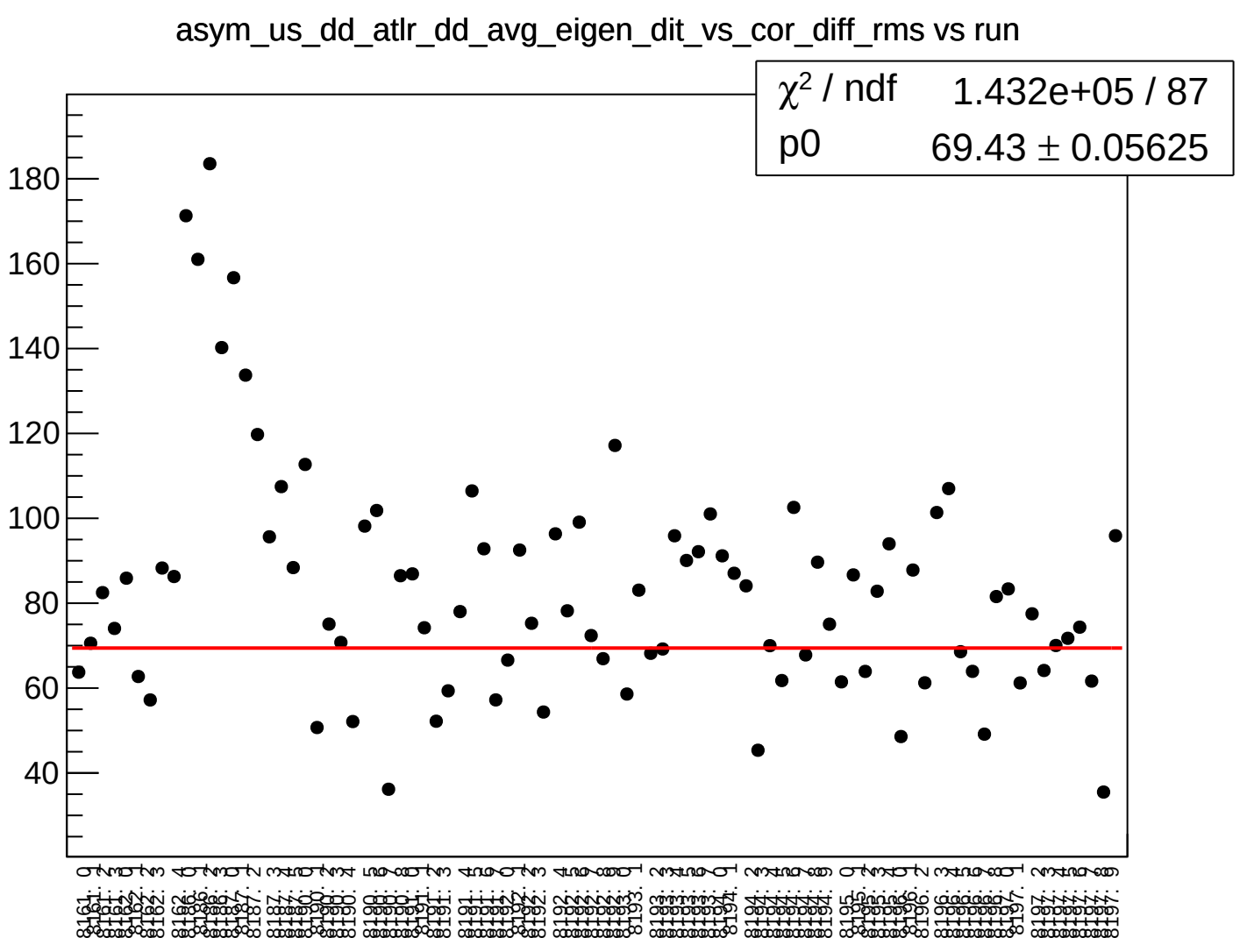

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.8 / 87
p0 0.02011 ± 0.07955
pull
Entries 88
Mean −51.7
Std Dev 0
pull1D
Entries 88
Mean 0.04863
Std Dev 0.9688

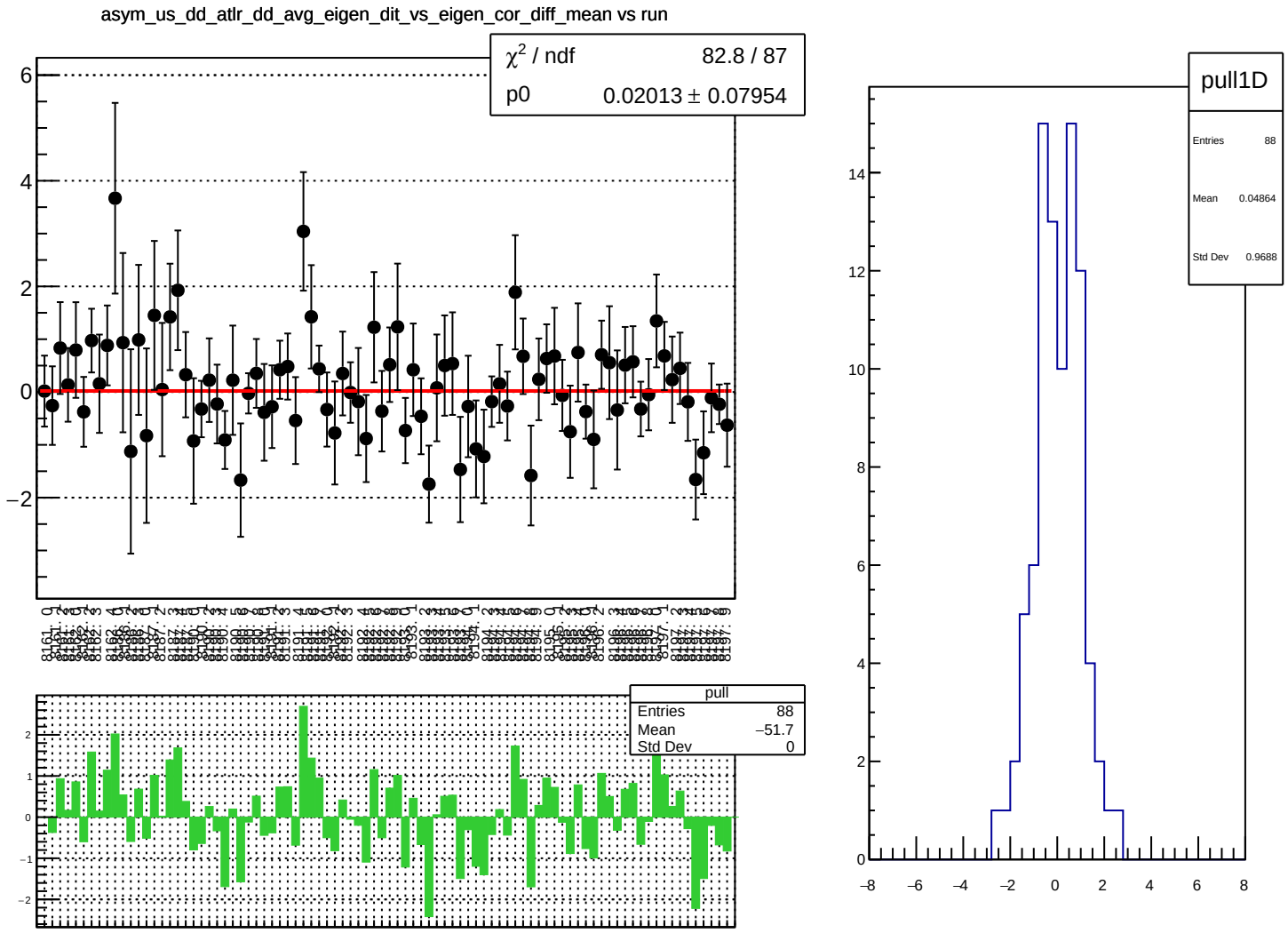

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.432e+05 / 87
p0 69.43 ± 0.05625
180
160
140
120
100
80
60
40

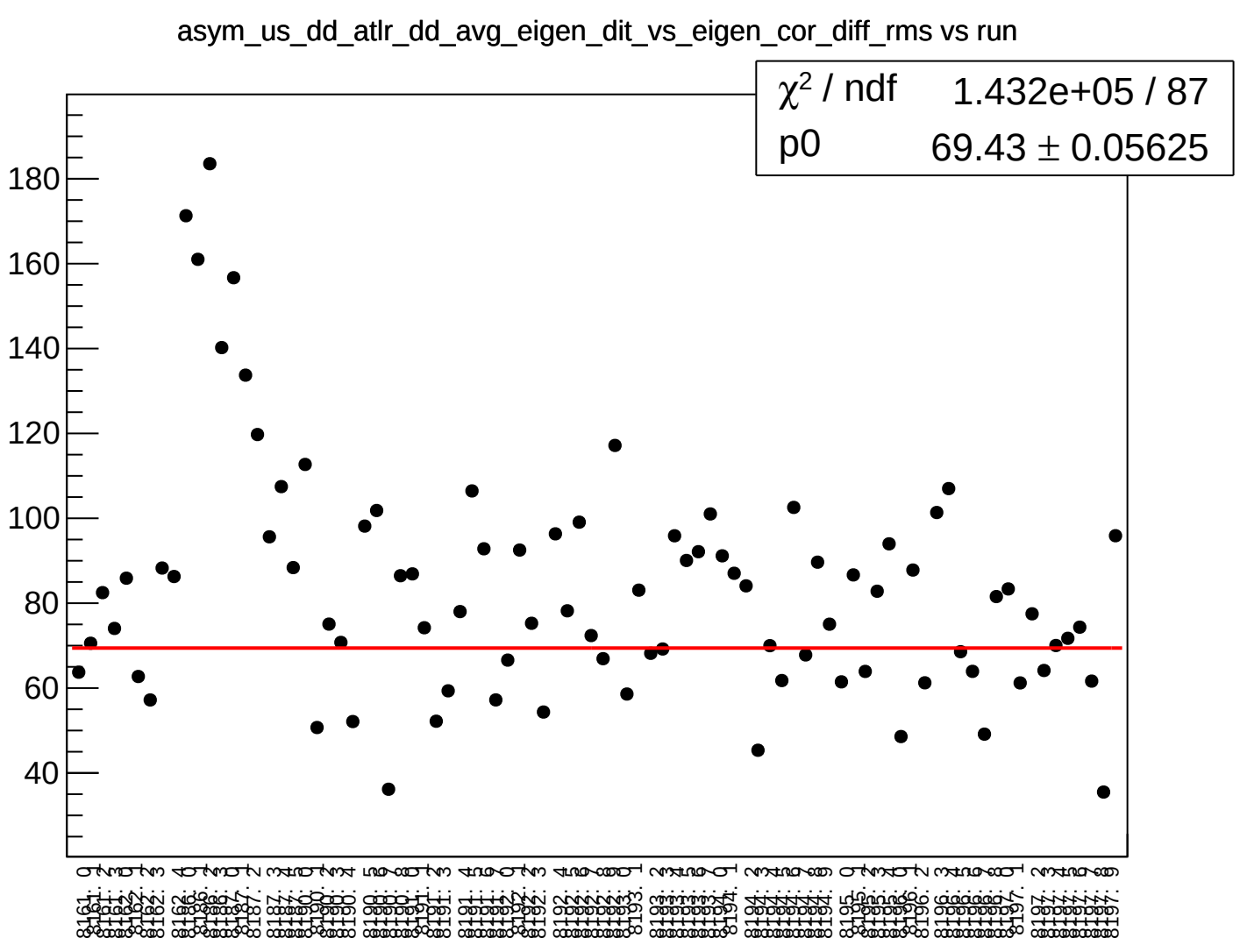

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.87 / 87
p0 1.364e−05 ± 4.603e−06
pull
Entries 88
Mean 178.3
Std Dev 0
pull1D
Entries 88
Mean −0.01361
Std Dev 0.9406

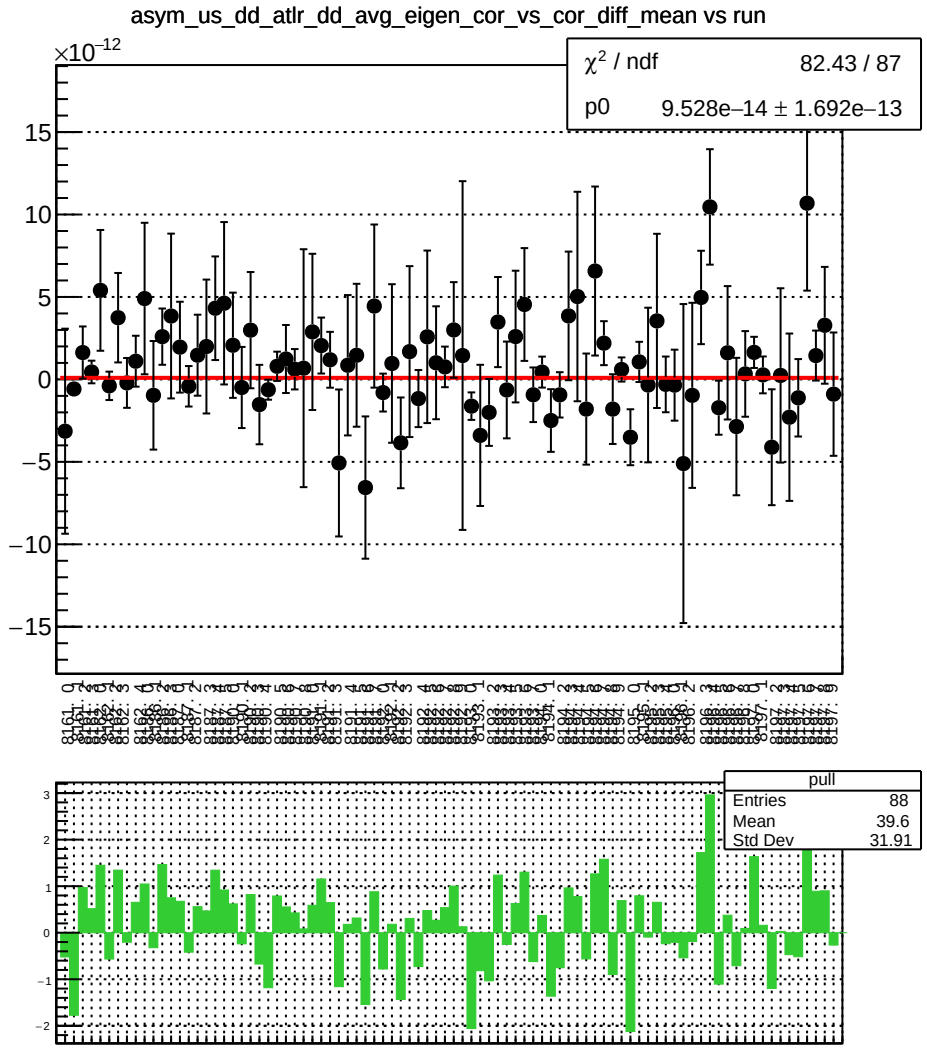

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.439e+04 / 87
p0 0.004158 ± 3.255e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

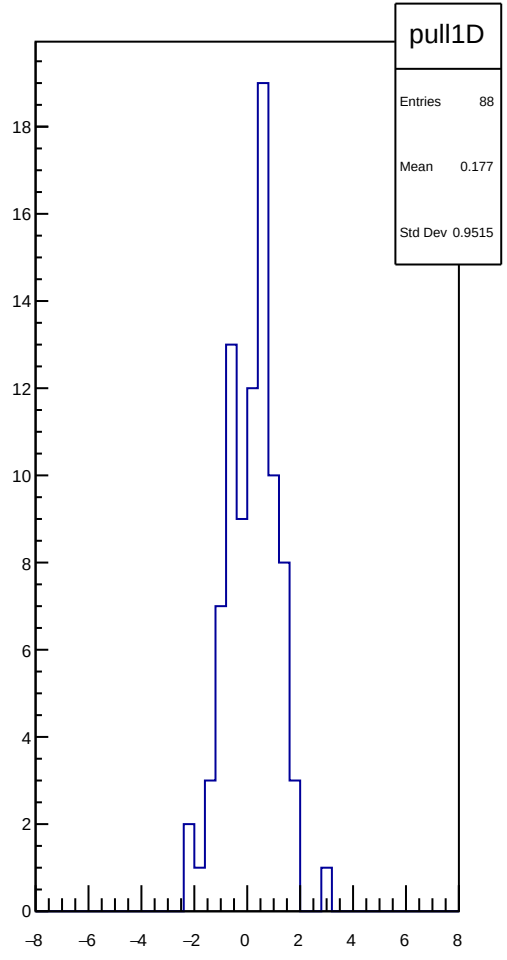

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.8 / 87
p0 0.02013 ± 0.07954
pull
Entries 88
Mean −51.7
Std Dev 0
pull1D
Entries 88
Mean 0.04864
Std Dev 0.9688

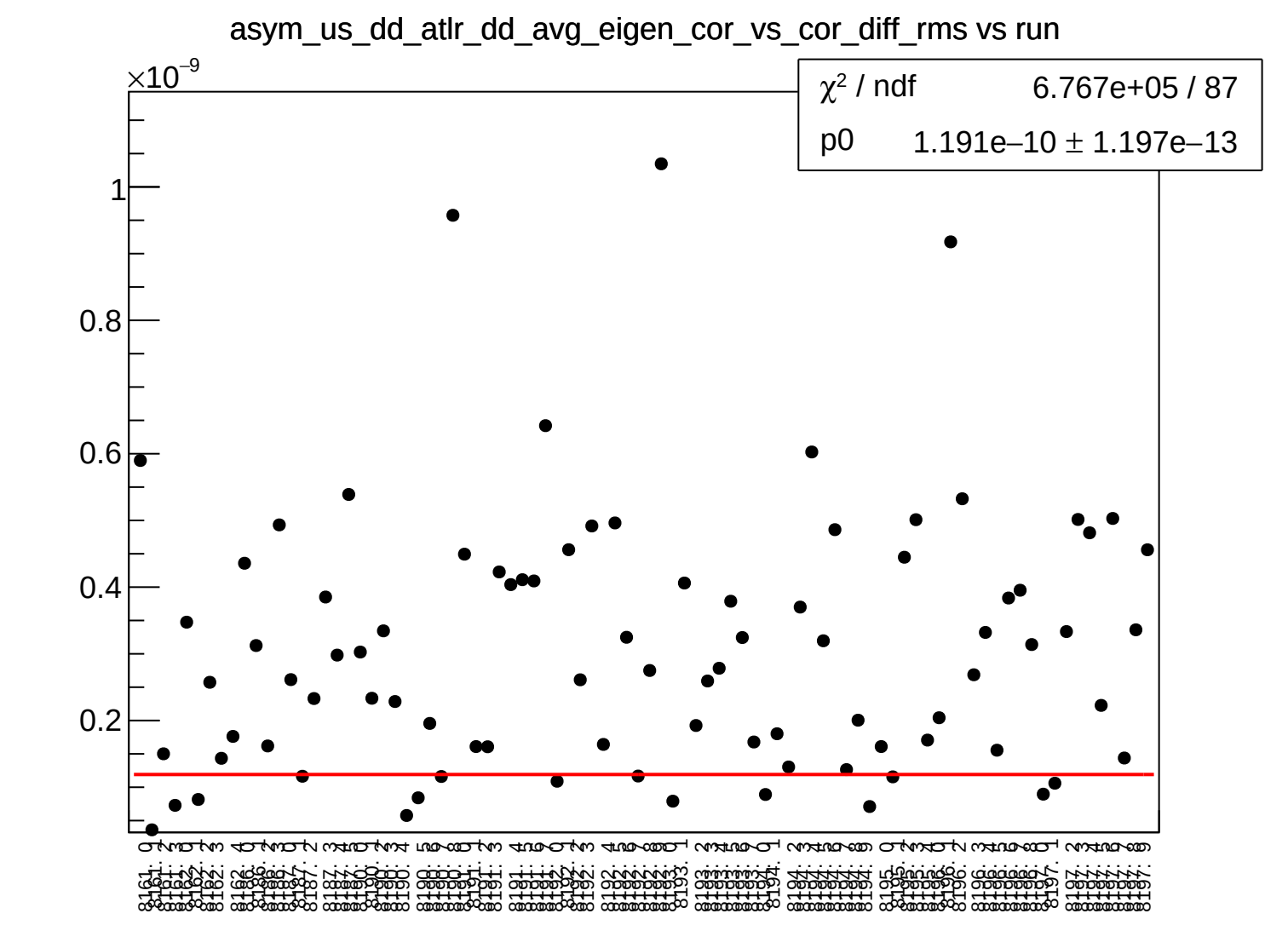

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.432e+05 / 87
p0 69.43 ± 0.05625
180
160
140
120
100
80
60
40

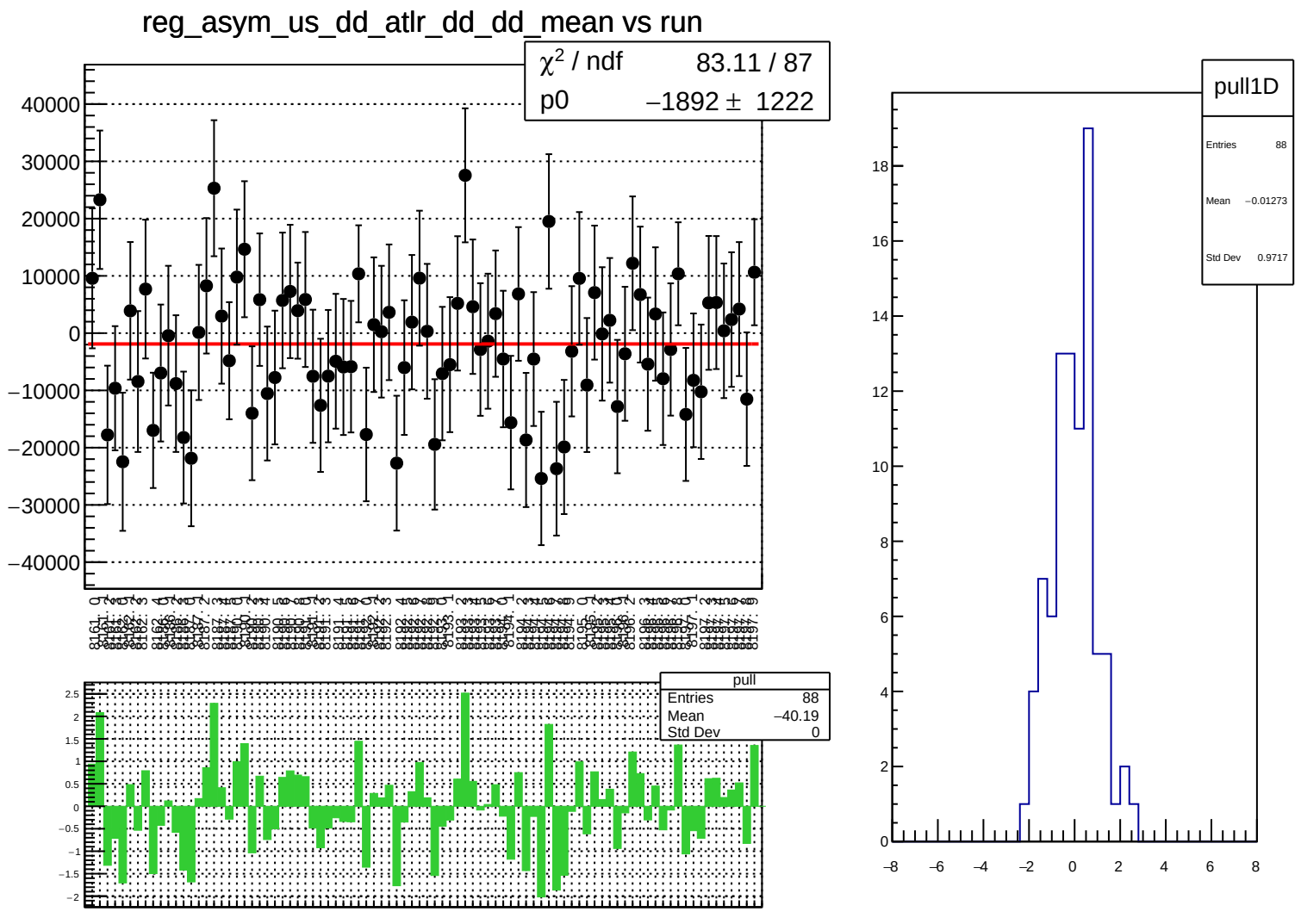

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.8 / 87
p0 0.02013 ± 0.07954
pull
Entries 88
Mean −51.7
Std Dev 0
pull1D
Entries 88
Mean 0.04864
Std Dev 0.9688

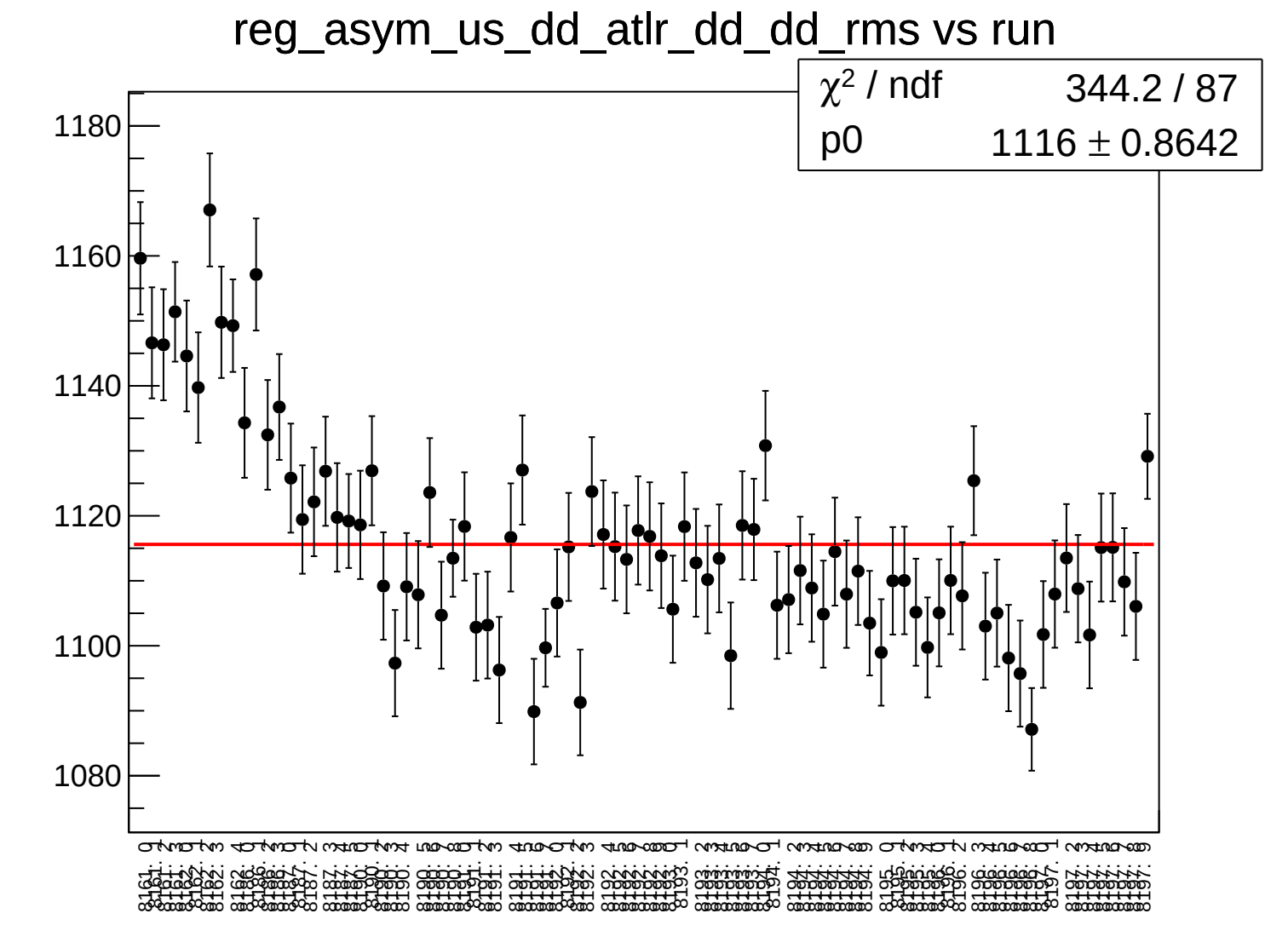

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.432e+05 / 87
p0 69.43 ± 0.05625
180
160
140
120
100
80
60
40

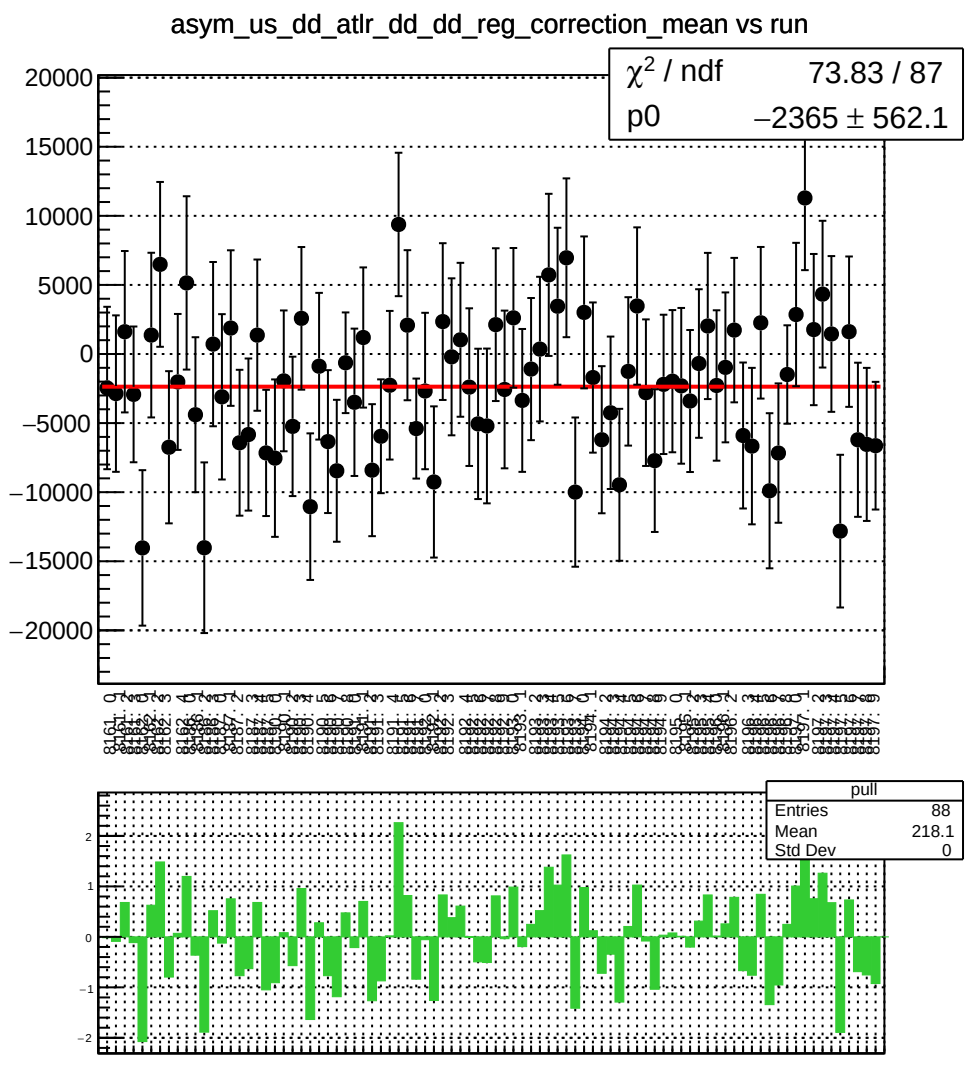

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.43 / 87
p0 9.528e−14 ± 1.692e−13
pull
Entries 88
Mean 39.6
Std Dev 31.91

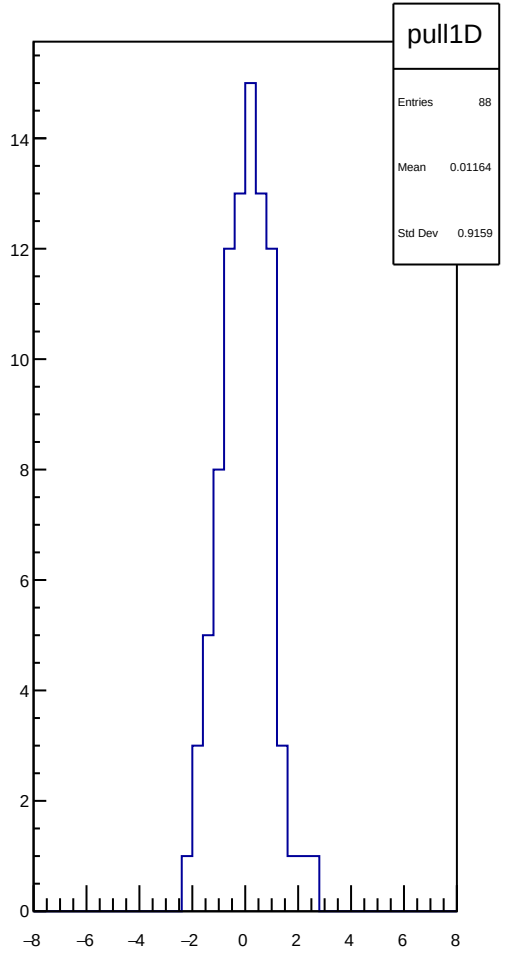

pull1D
Entries 88
Mean 0.177
Std Dev 0.9515

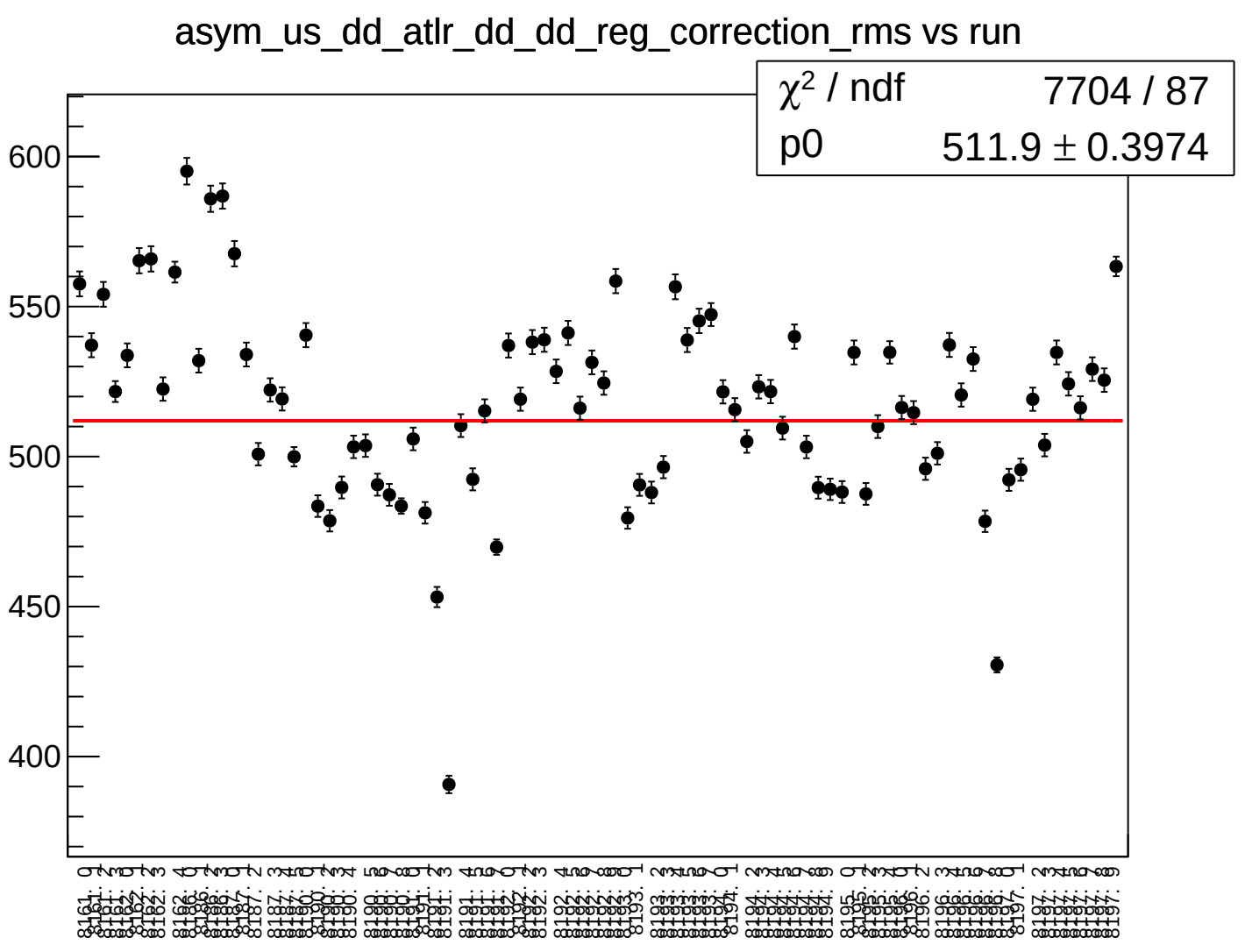

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.767e+05 / 87
p0 1.191e−10 ± 1.197e−13
1
0.8
0.6
0.4
0.2

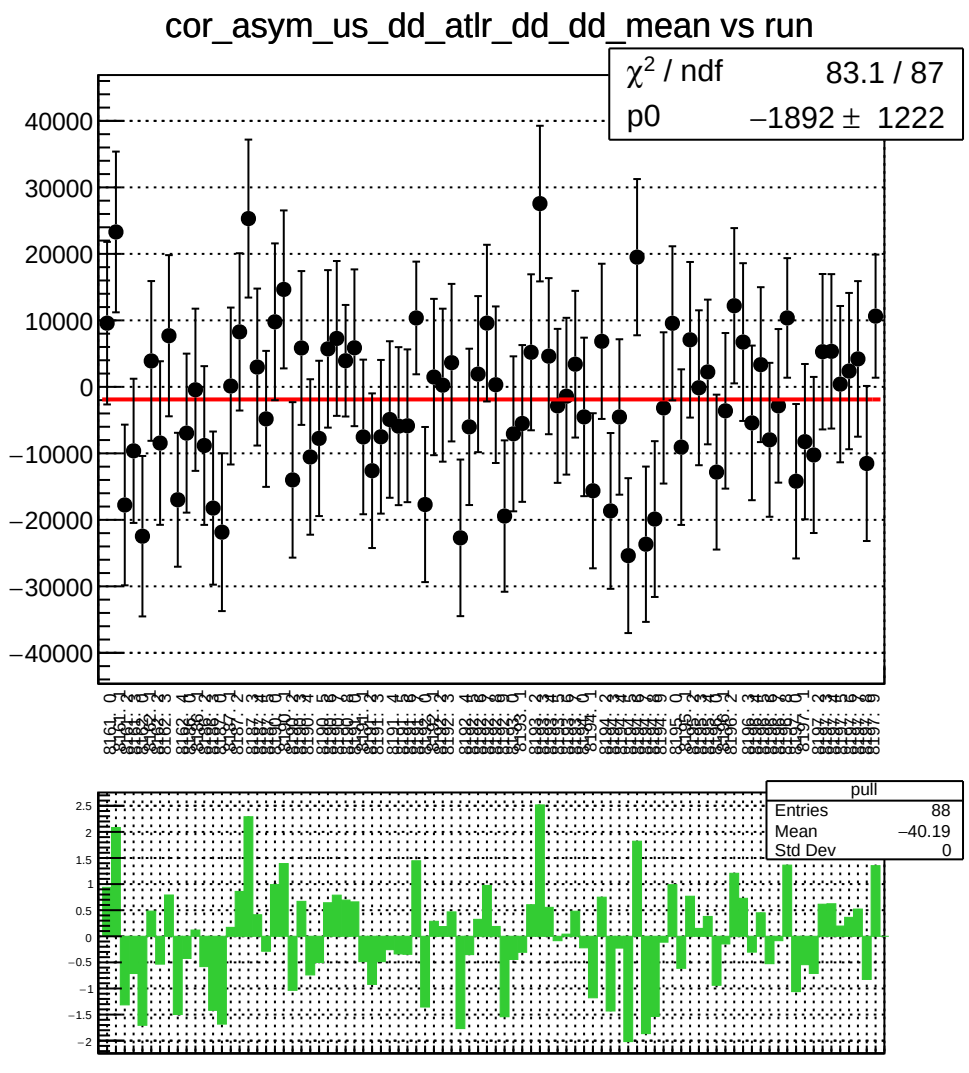

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.11 / 87
p0 −1892 ± 1222
pull
Entries 88
Mean −40.19
Std Dev 0
pull1D
Entries 88
Mean −0.01273
Std Dev 0.9717

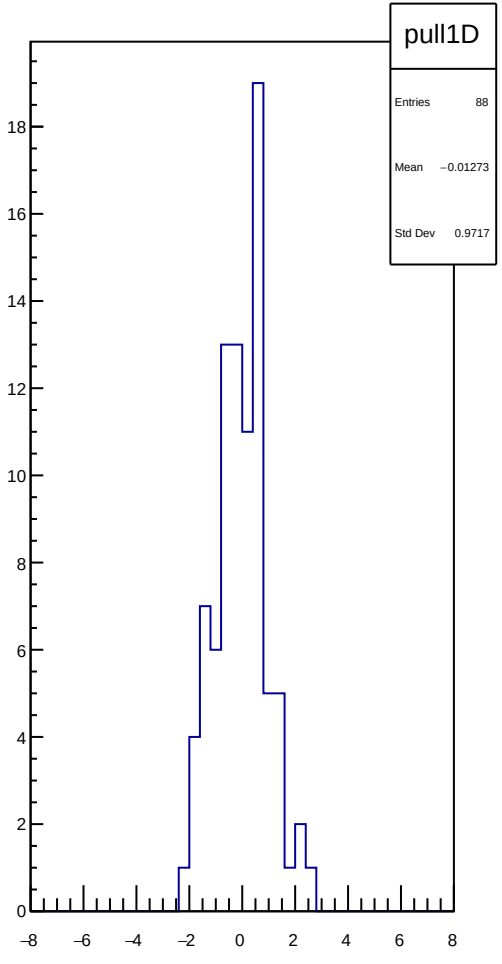

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 344.2 / 87
p0 1116 ± 0.8642
1180
1160
1140
1120
1100
1080

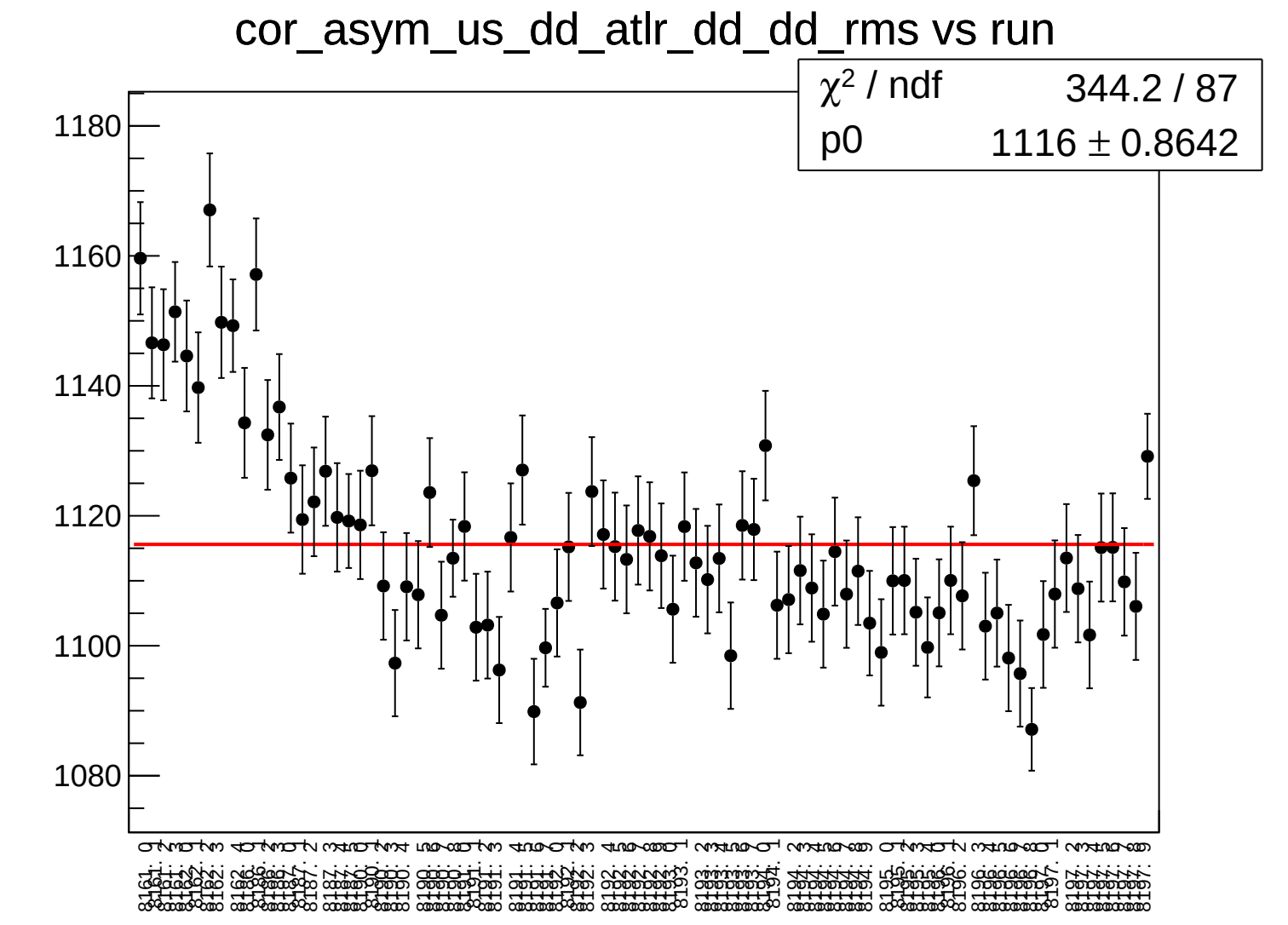

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 73.83 / 87
p0 −2365 ± 562.1
pull
Entries 88
Mean 218.1
Std Dev 0

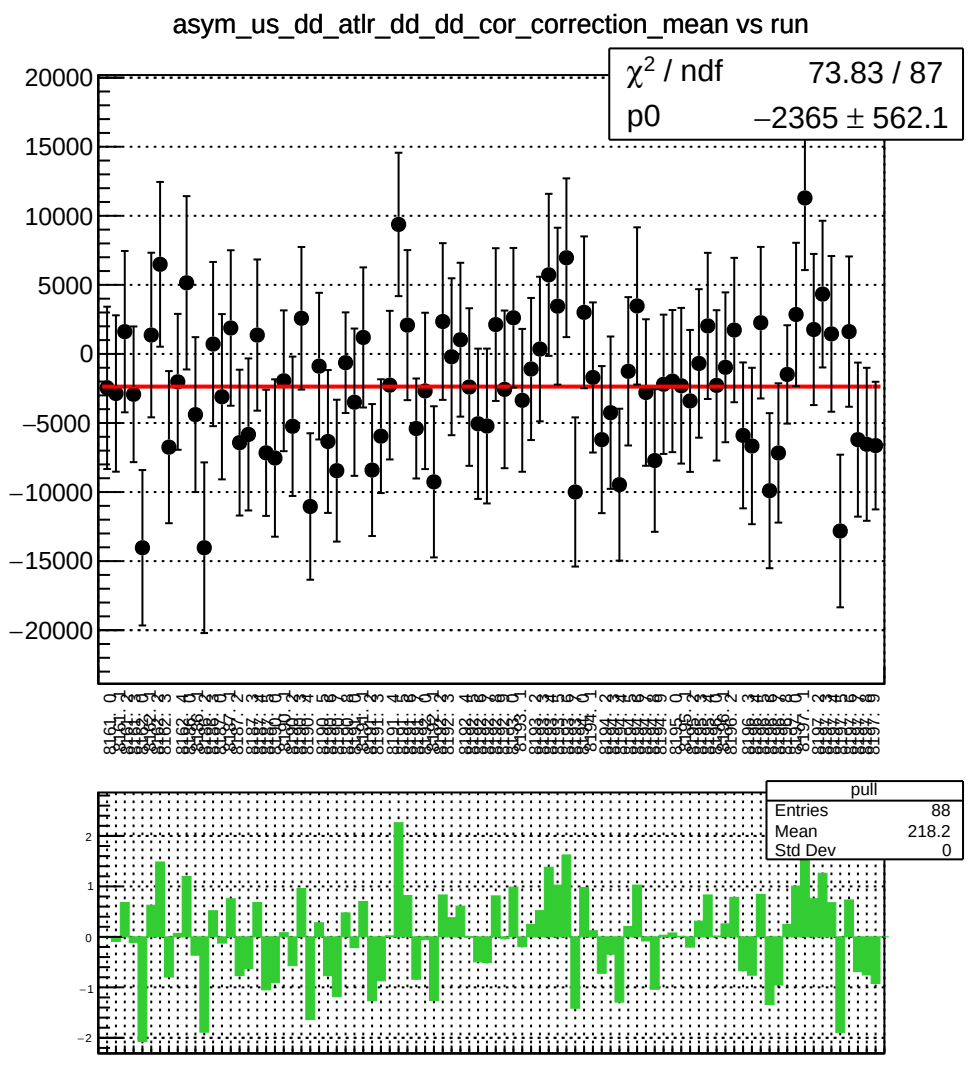

pull1D
Entries 88
Mean 0.01164
Std Dev 0.9159

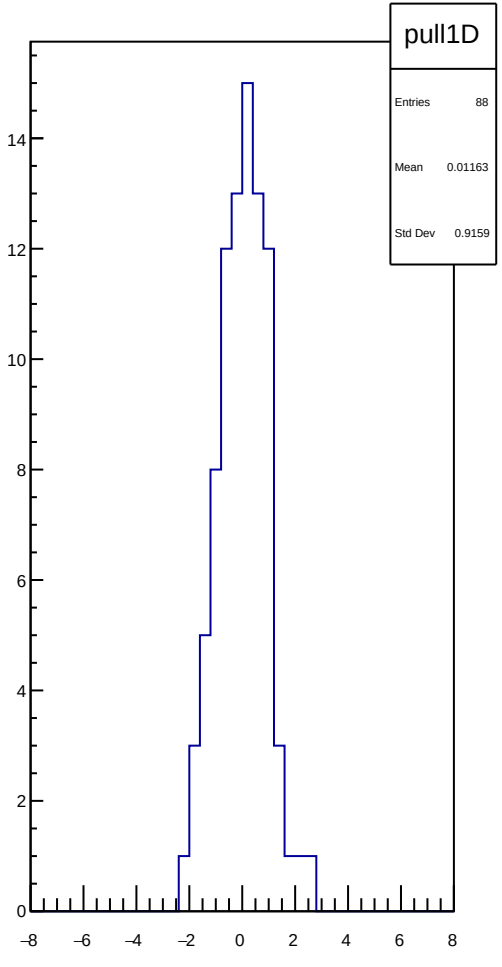

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 7704 / 87
p0 511.9 ± 0.3974
600
550
500
450
400

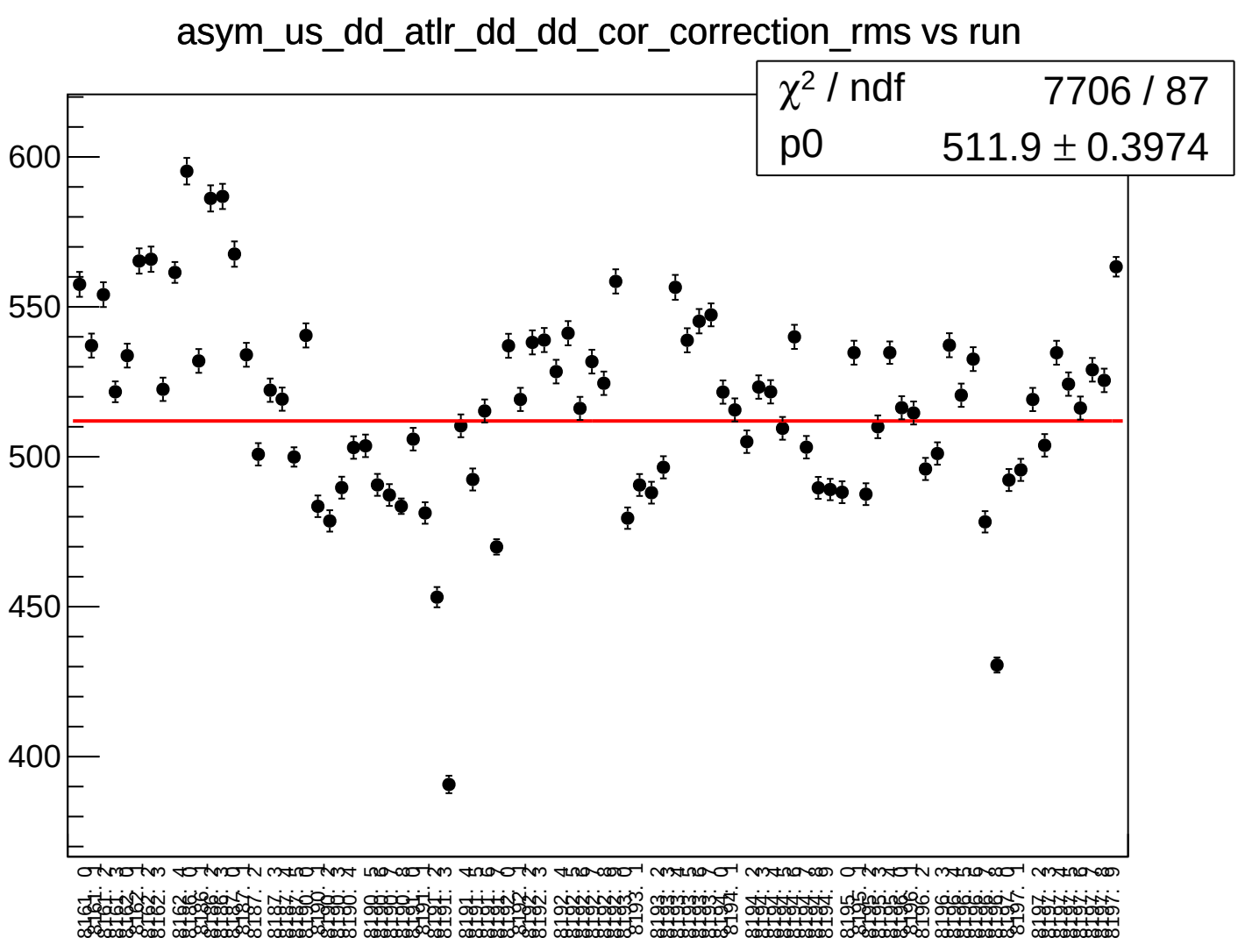

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.1 / 87
p0 −1892 ± 1222
pull
Entries 88
Mean −40.19
Std Dev 0

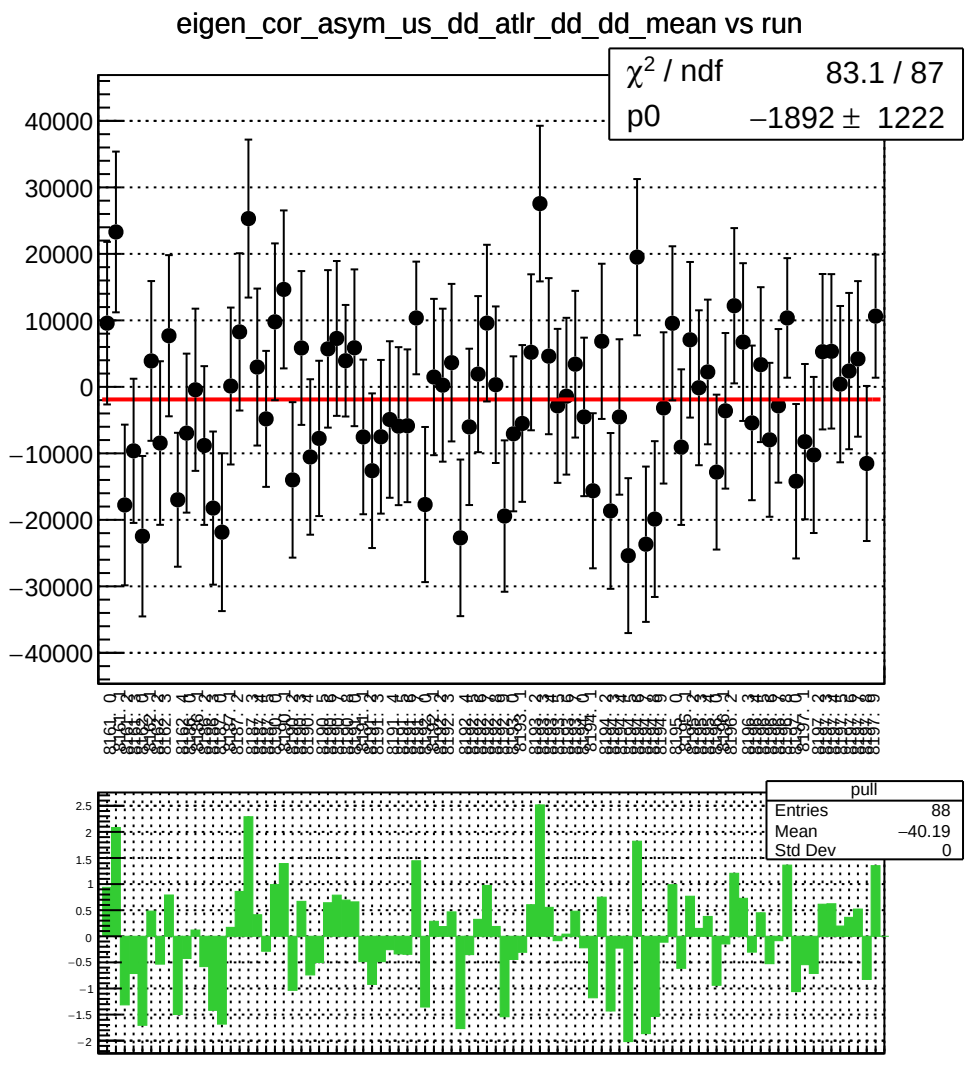

pull1D
Entries 88
Mean −0.01273
Std Dev 0.9717

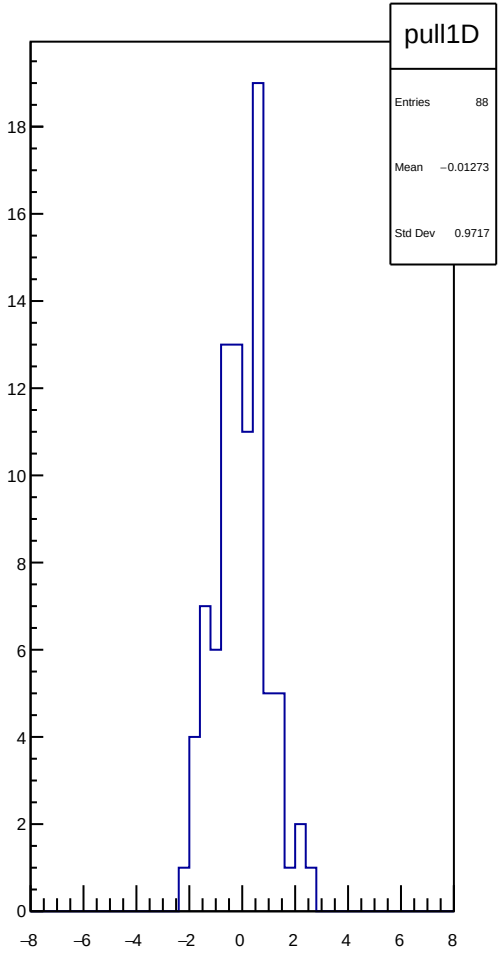

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 344.2 / 87
p0 1116 ± 0.8642
1180
1160
1140
1120
1100
1080

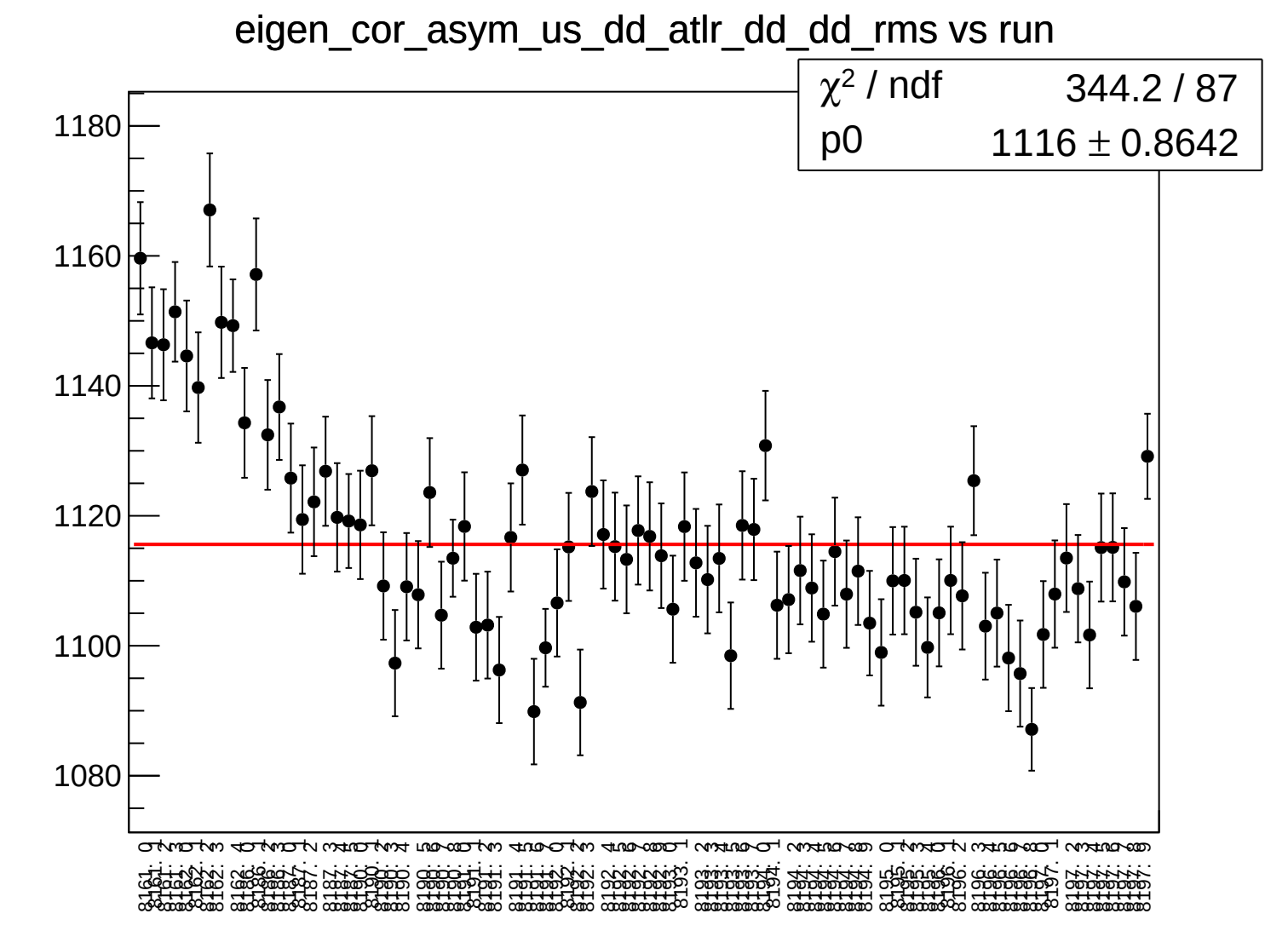

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 73.83 / 87
p0 −2365 ± 562.1
pull
Entries 88
Mean 218.2
Std Dev 0

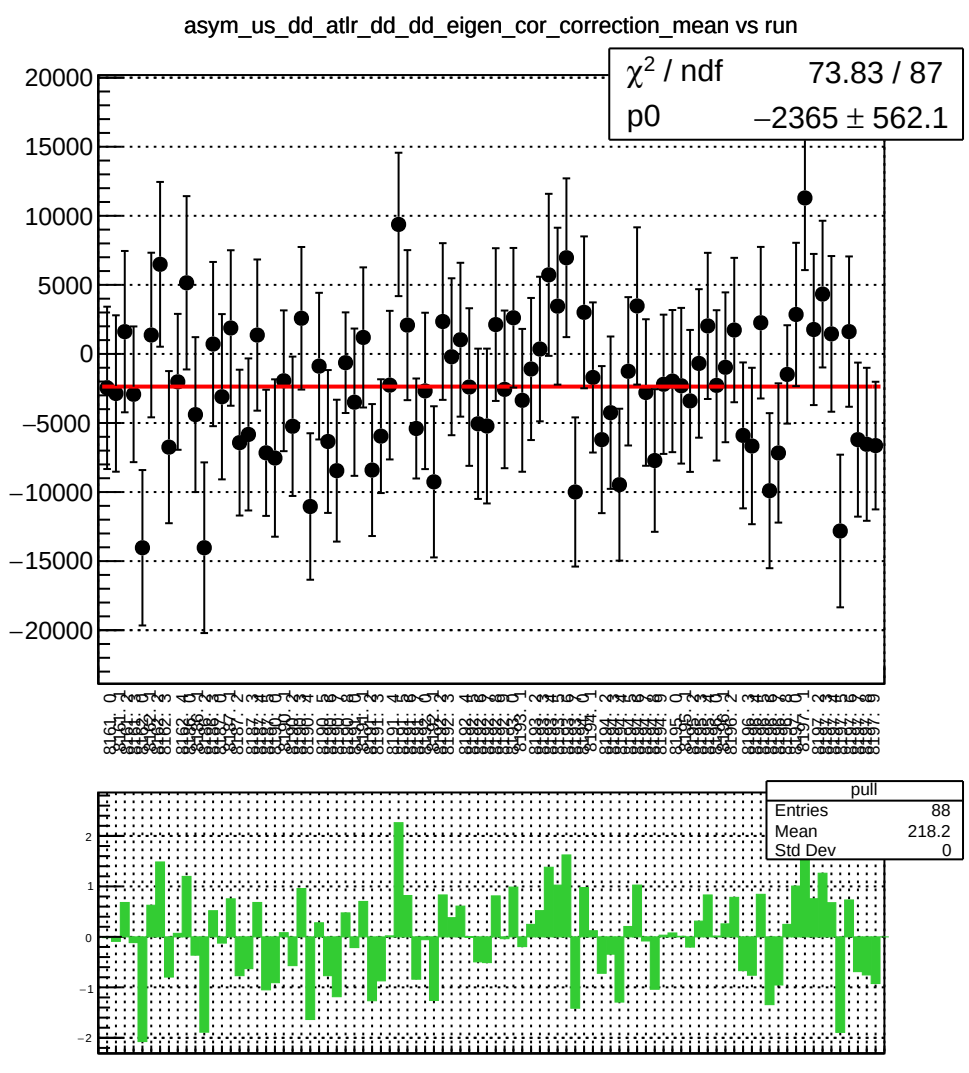

pull1D
Entries 88
Mean 0.01163
Std Dev 0.9159

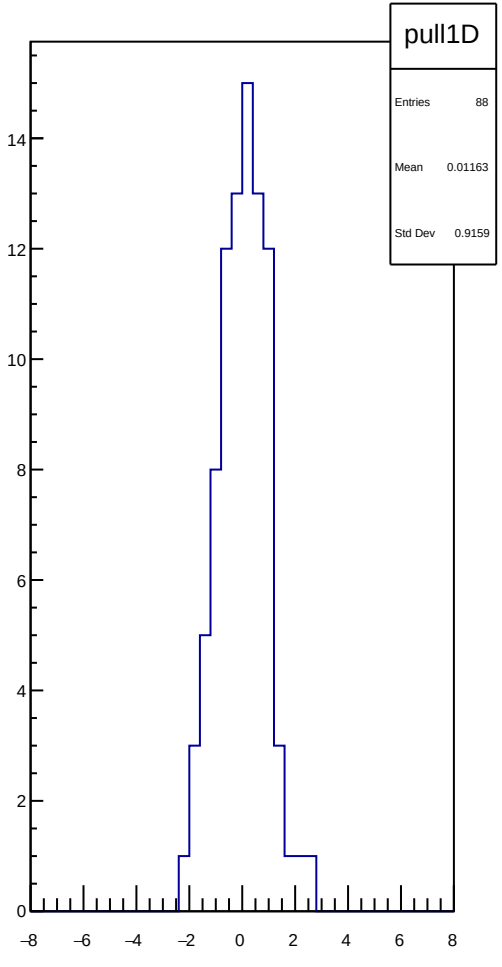

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 7706 / 87
p0 511.9 ± 0.3974
600
550
500
450
400

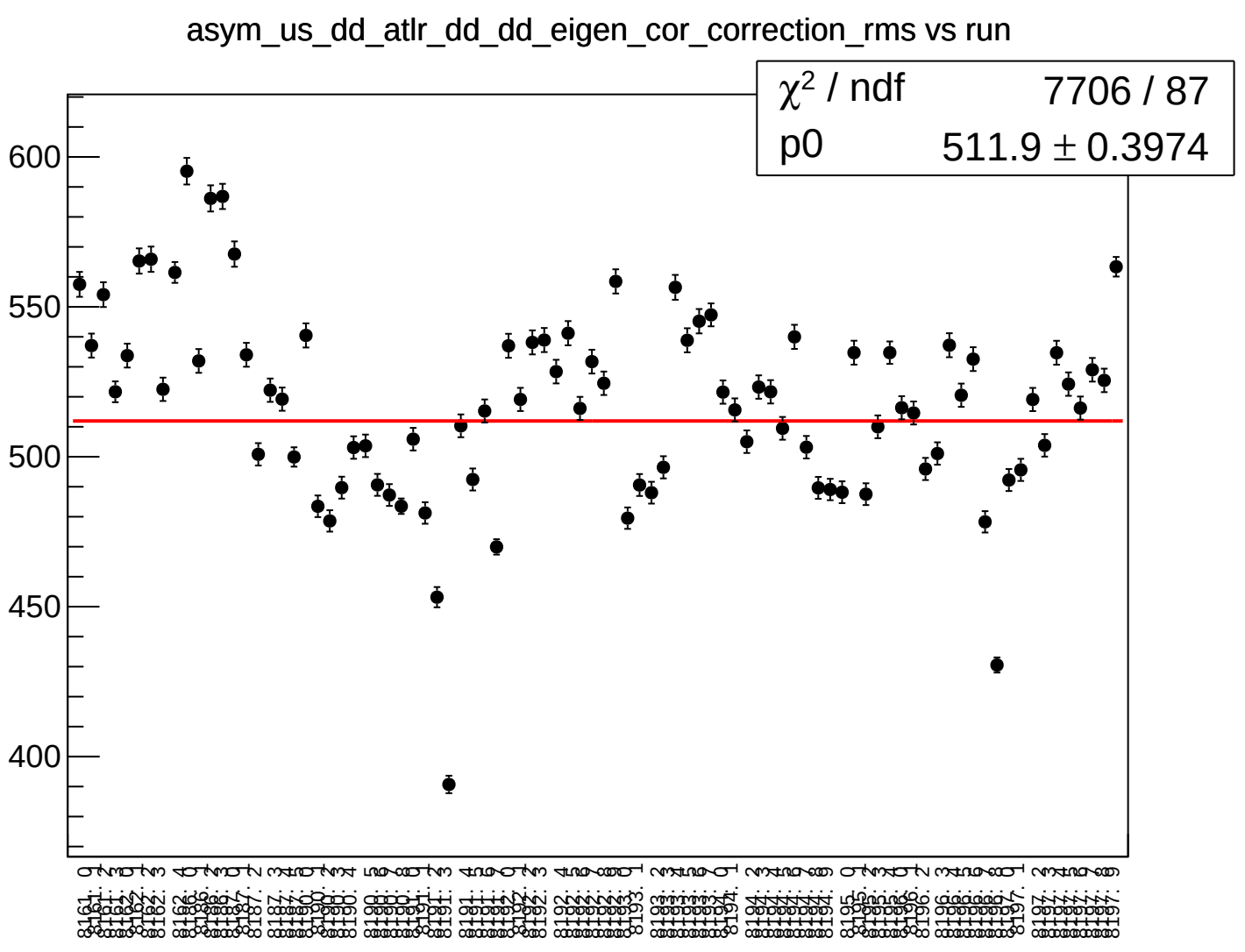

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.1 / 87
p0 −1892 ± 1222
pull
Entries 88
Mean −40.19
Std Dev 0

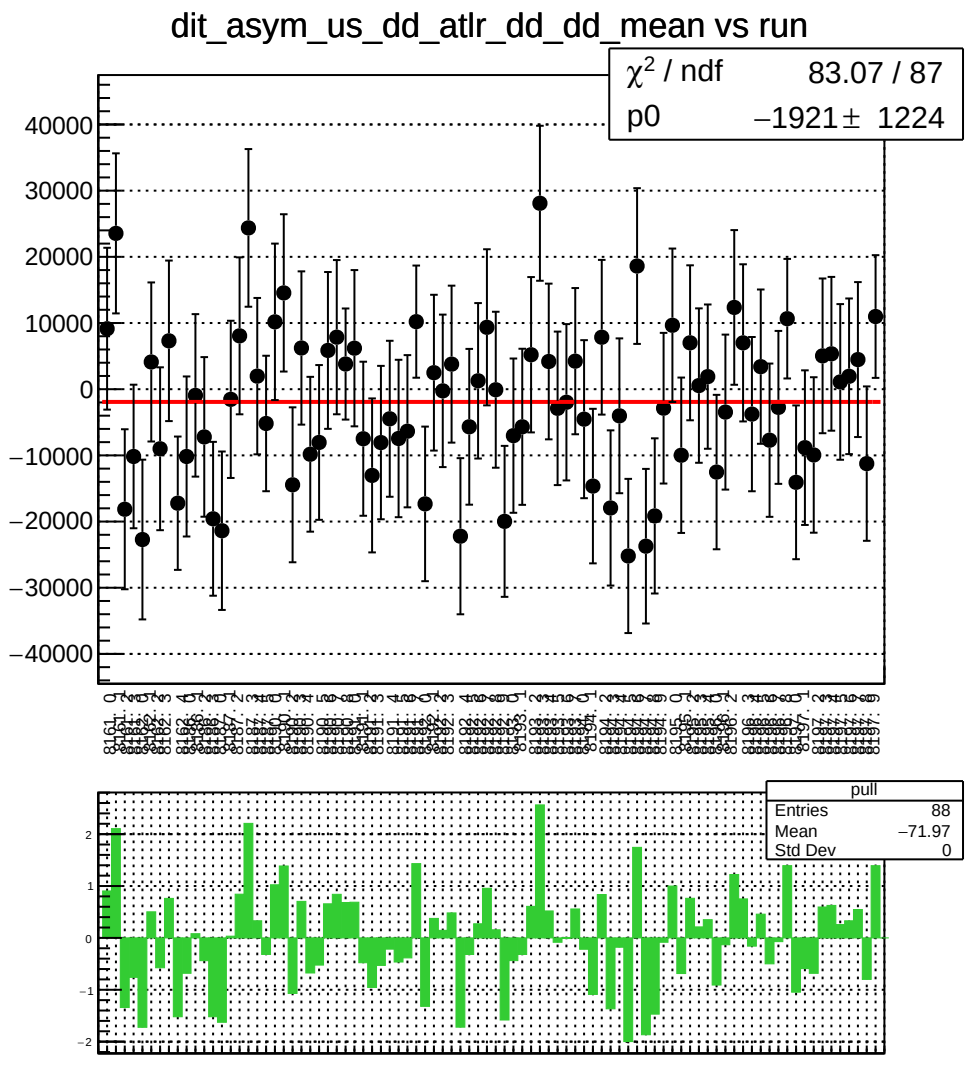

pull1D
Entries 88
Mean −0.01273
Std Dev 0.9717

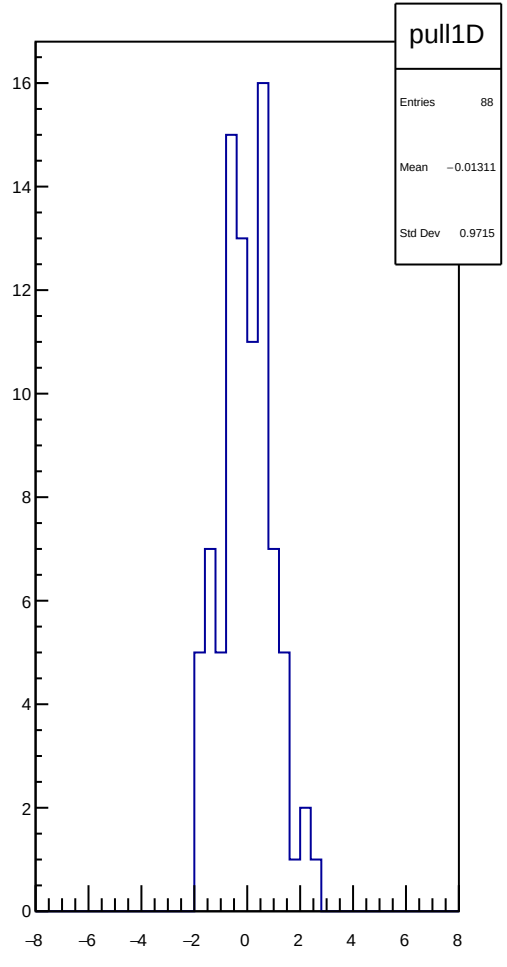

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 344.2 / 87
p0 1116 ± 0.8642
1180
1160
1140
1120
1100
1080

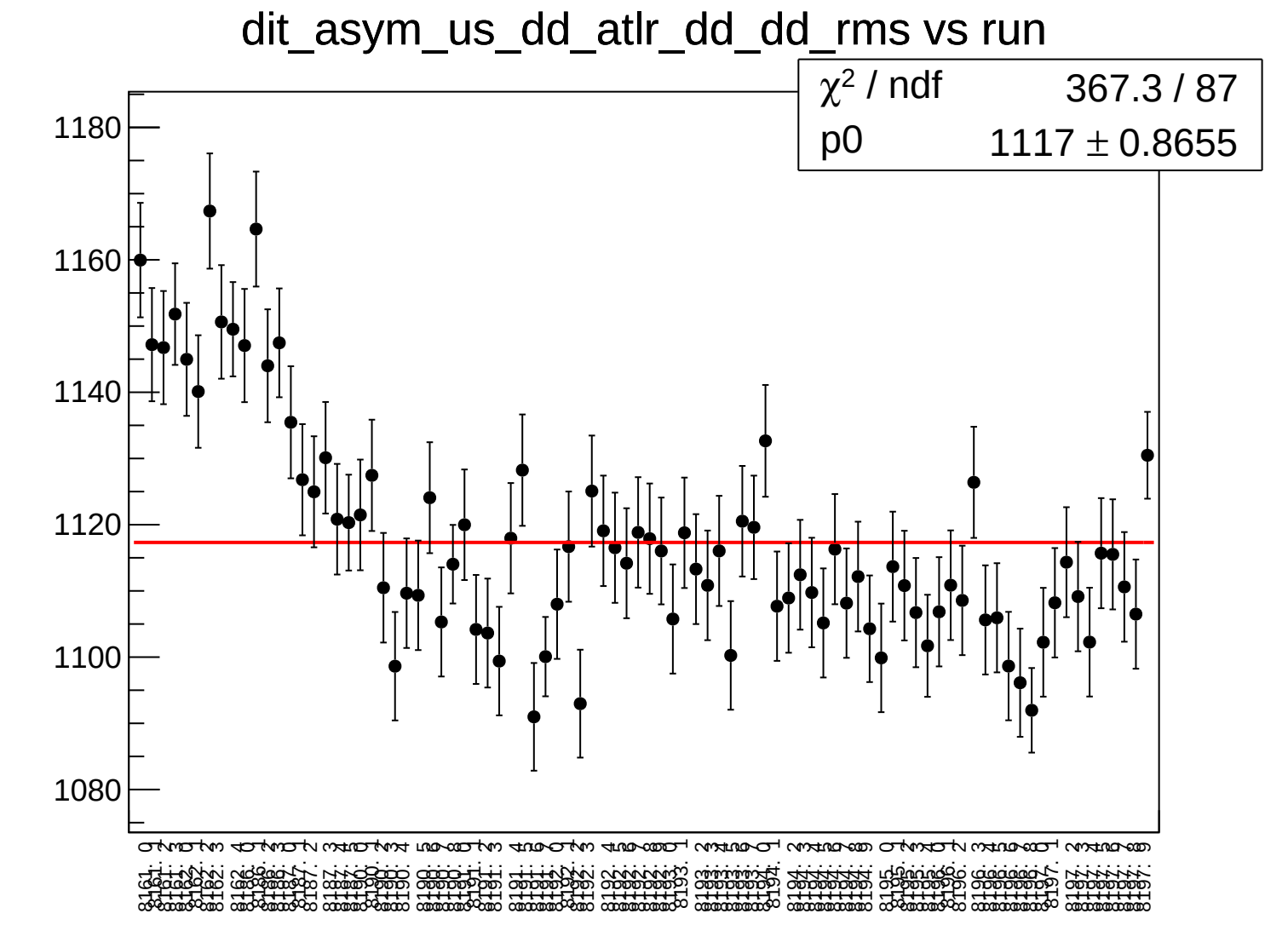

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.83 / 87
p0 −2365 ± 562.1
pull
Entries 88
Mean 218.2
Std Dev 0

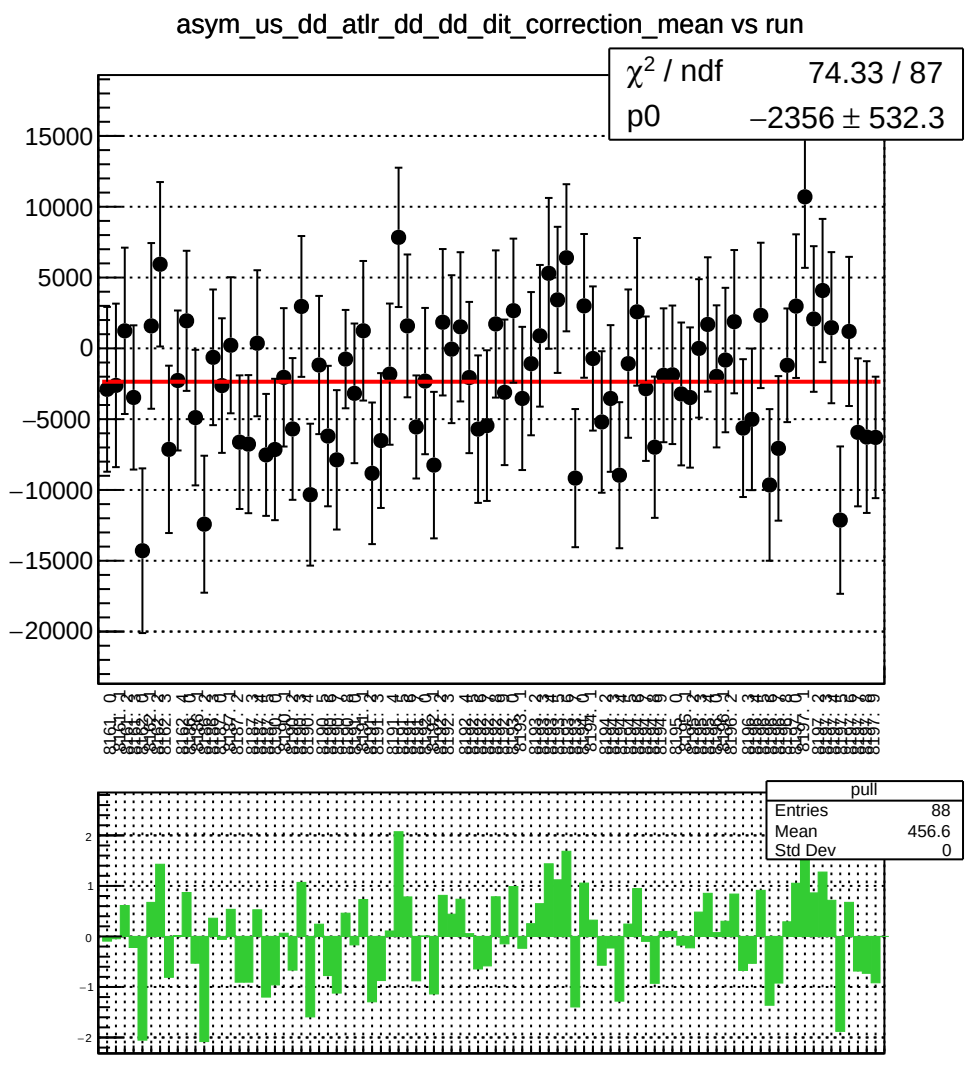

pull1D
Entries 88
Mean 0.01163
Std Dev 0.9159

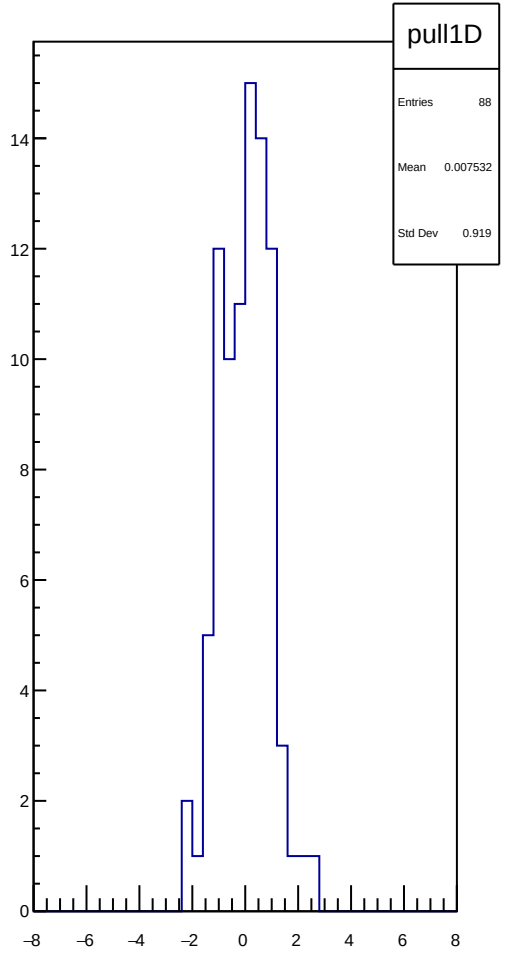

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7706 / 87
p0 511.9 ± 0.3974
600
550
500
450
400

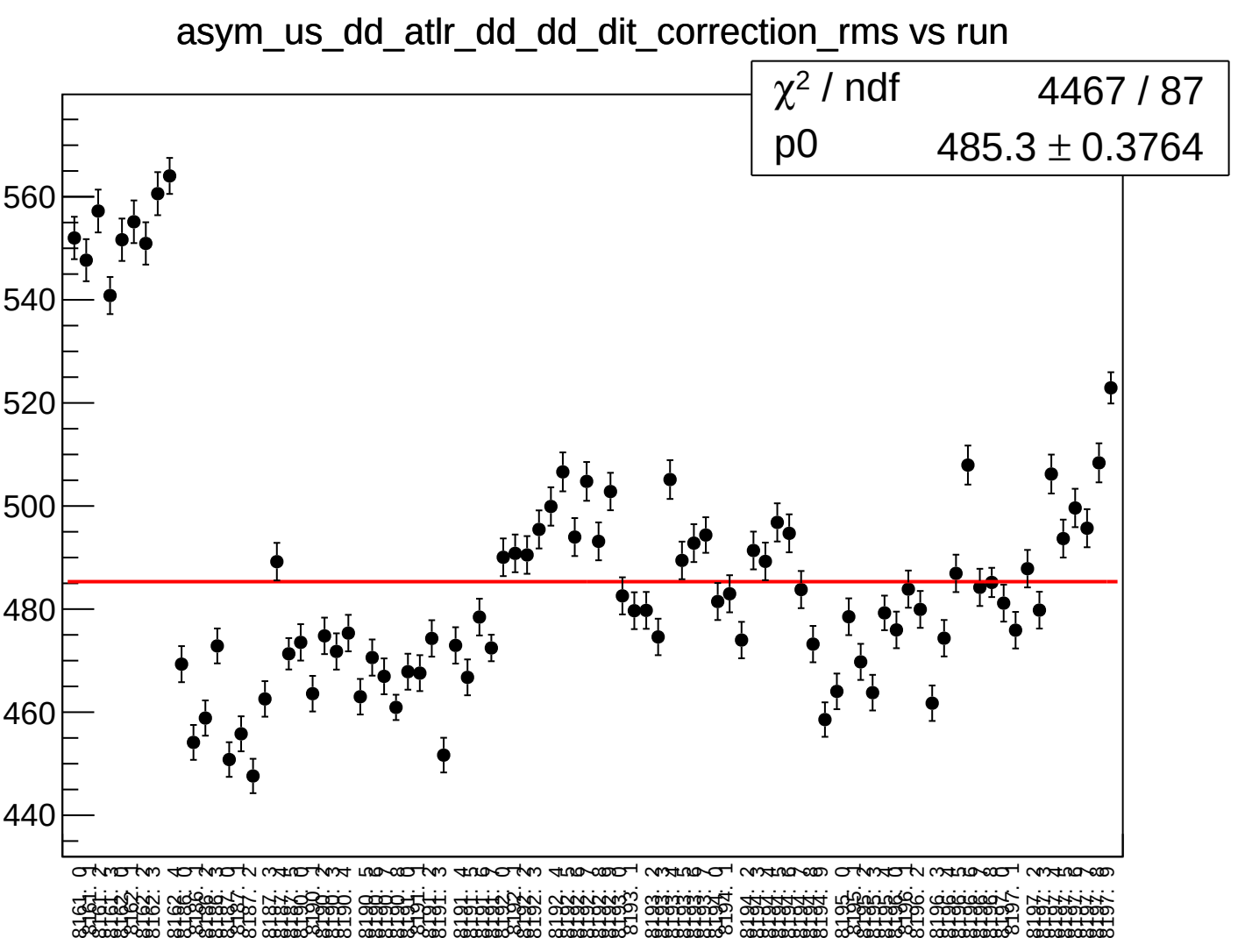

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.07 / 87
p0 −1921 ± 1224
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −71.97
Std Dev 0
2
1
0
−1
−2

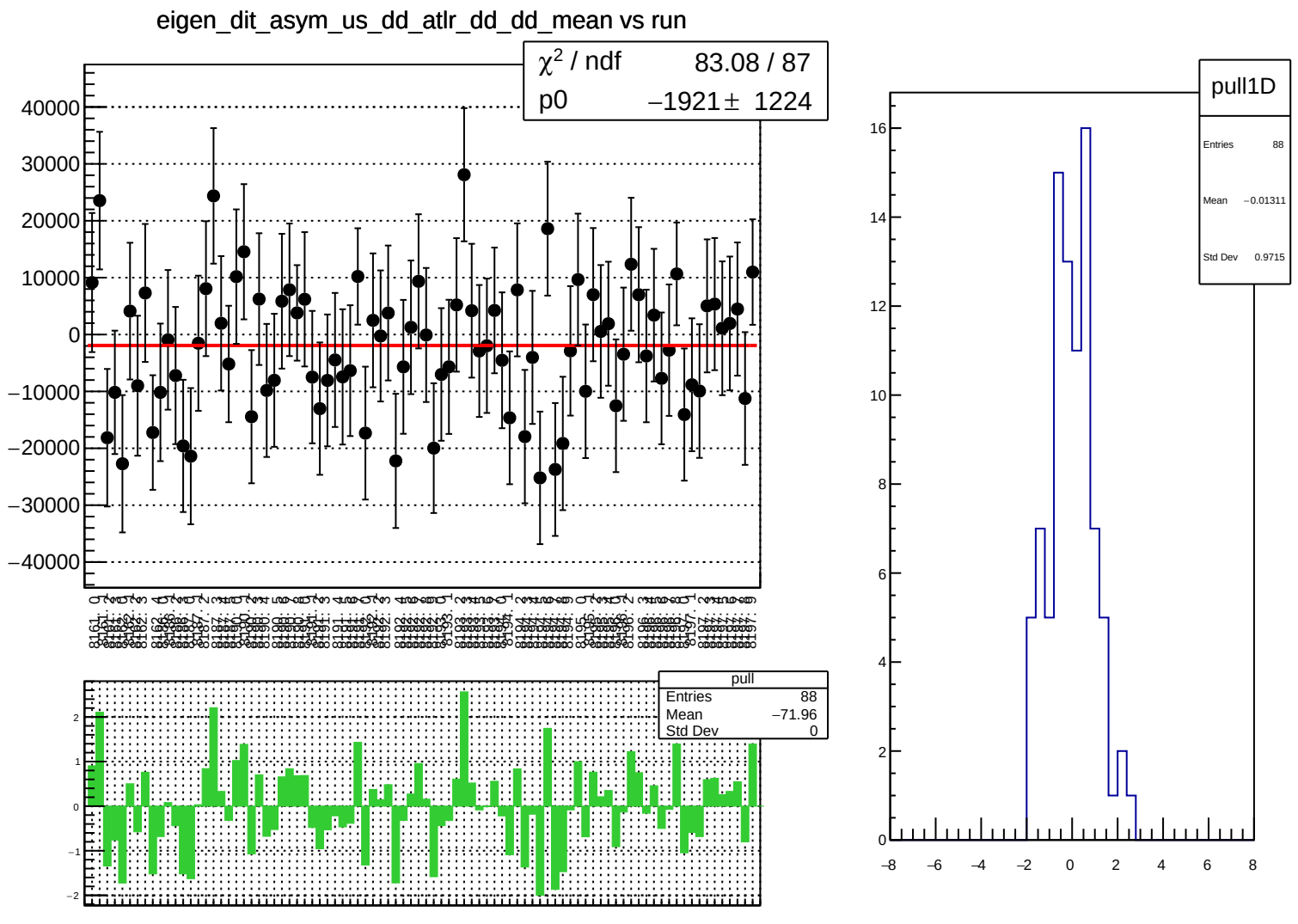

pull1D
Entries 88
Mean −0.01311
Std Dev 0.9715
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

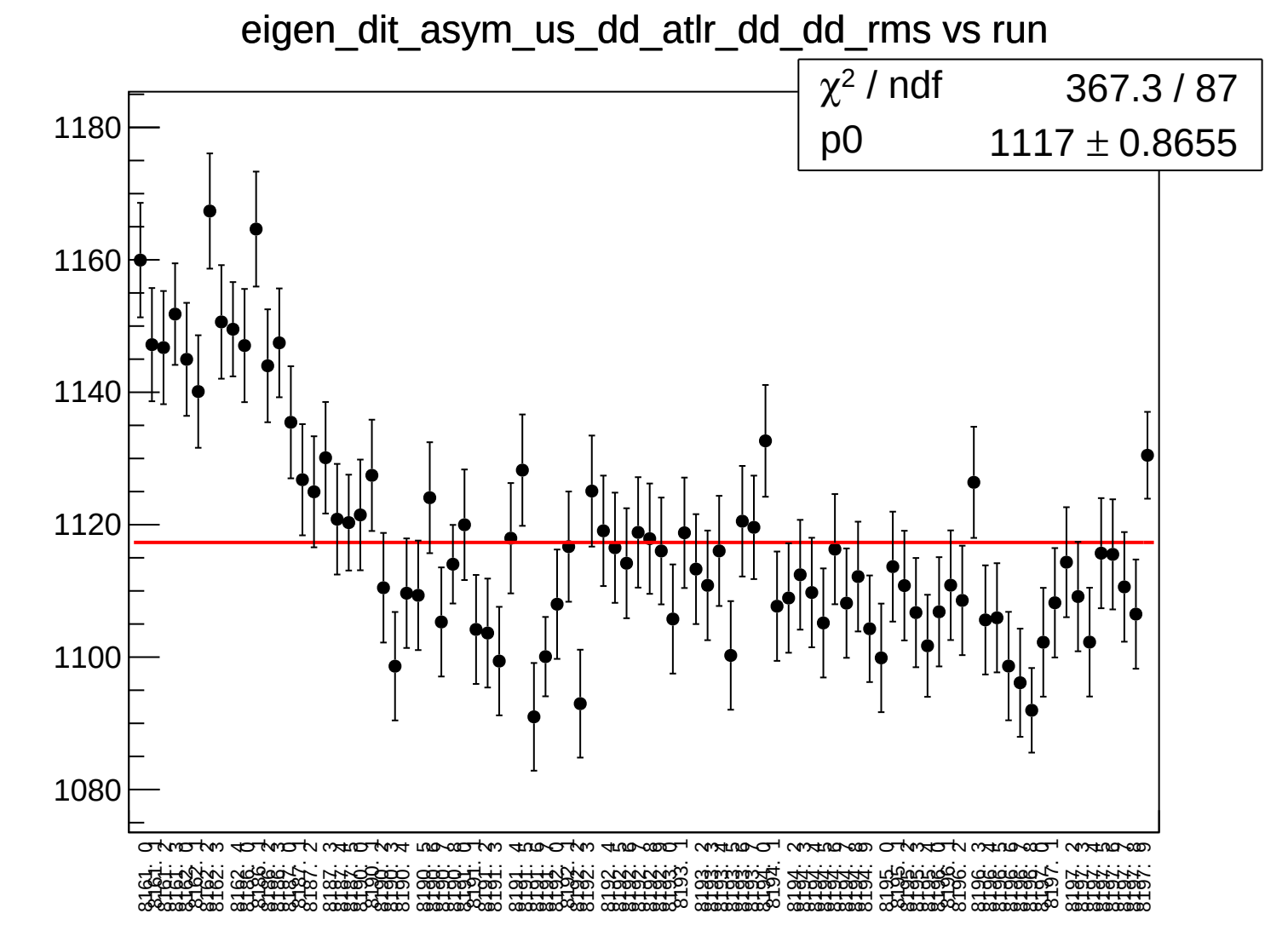

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 367.3 / 87
p0 1117 ± 0.8655
1180
1160
1140
1120
1100
1080

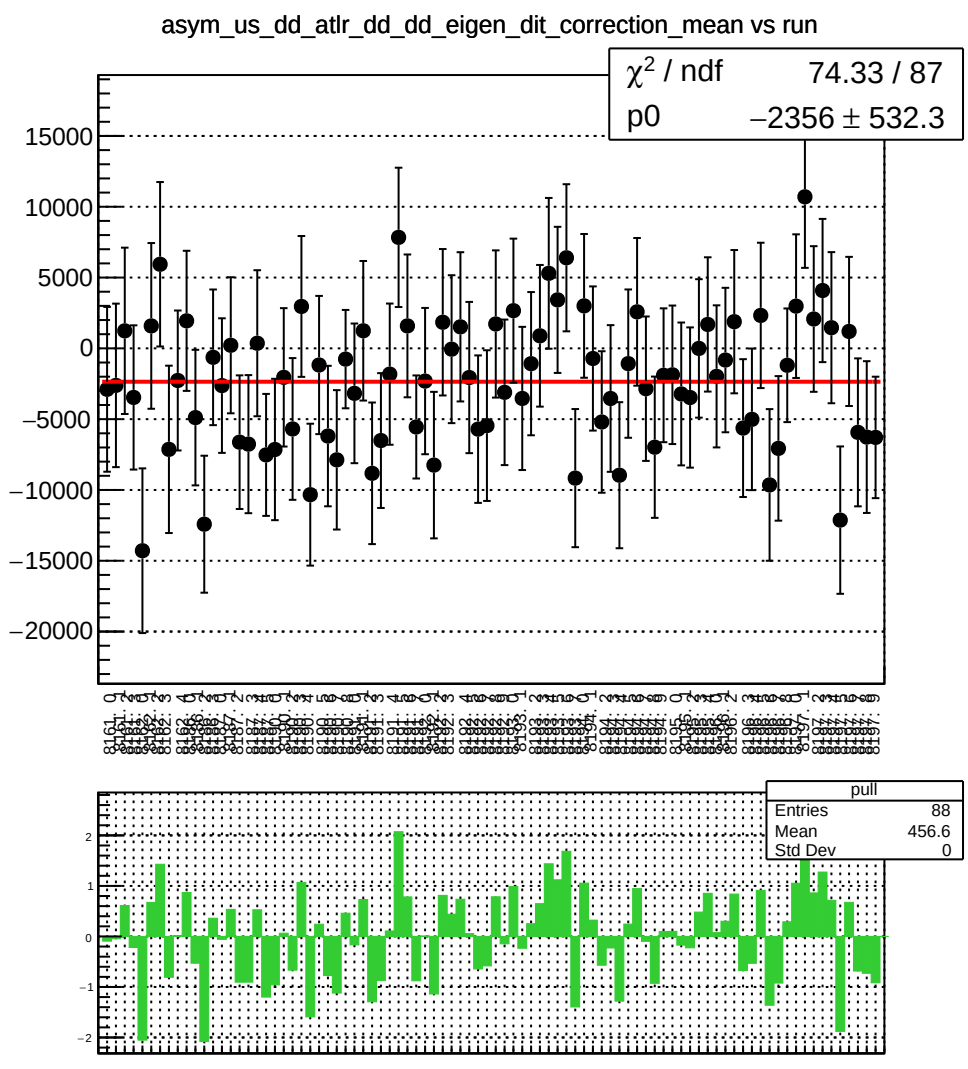

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 74.33 / 87
p0 −2356 ± 532.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 456.6
Std Dev 0
2
1
0
−1
−2

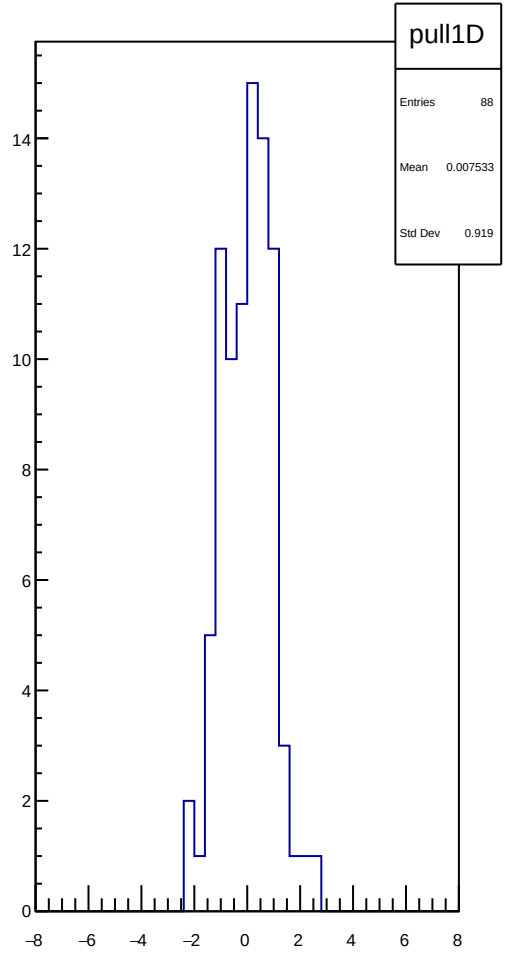

pull1D
Entries 88
Mean 0.007532
Std Dev 0.919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

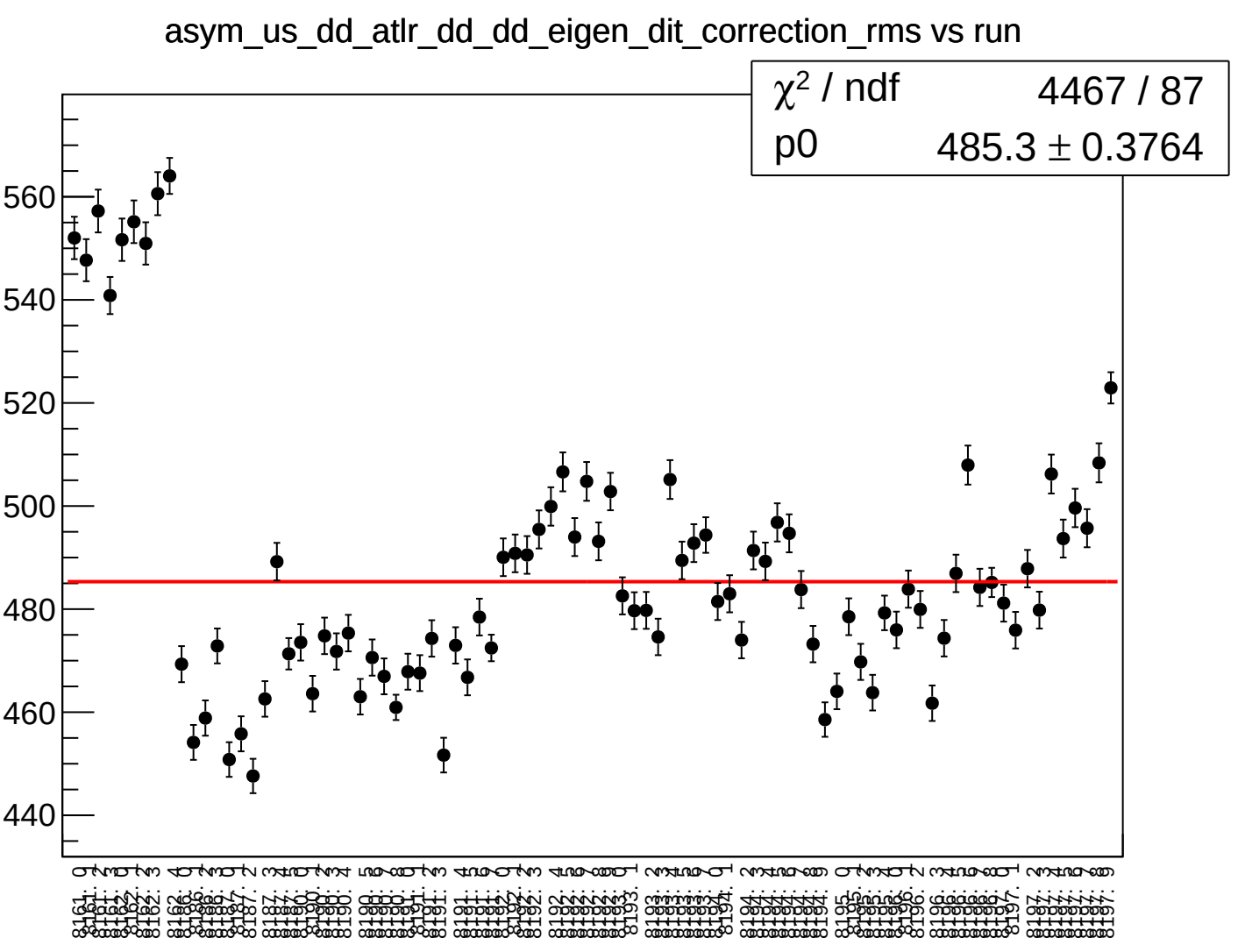

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 4467 / 87
p0 485.3 ± 0.3764
560
540
520
500
480
460
440

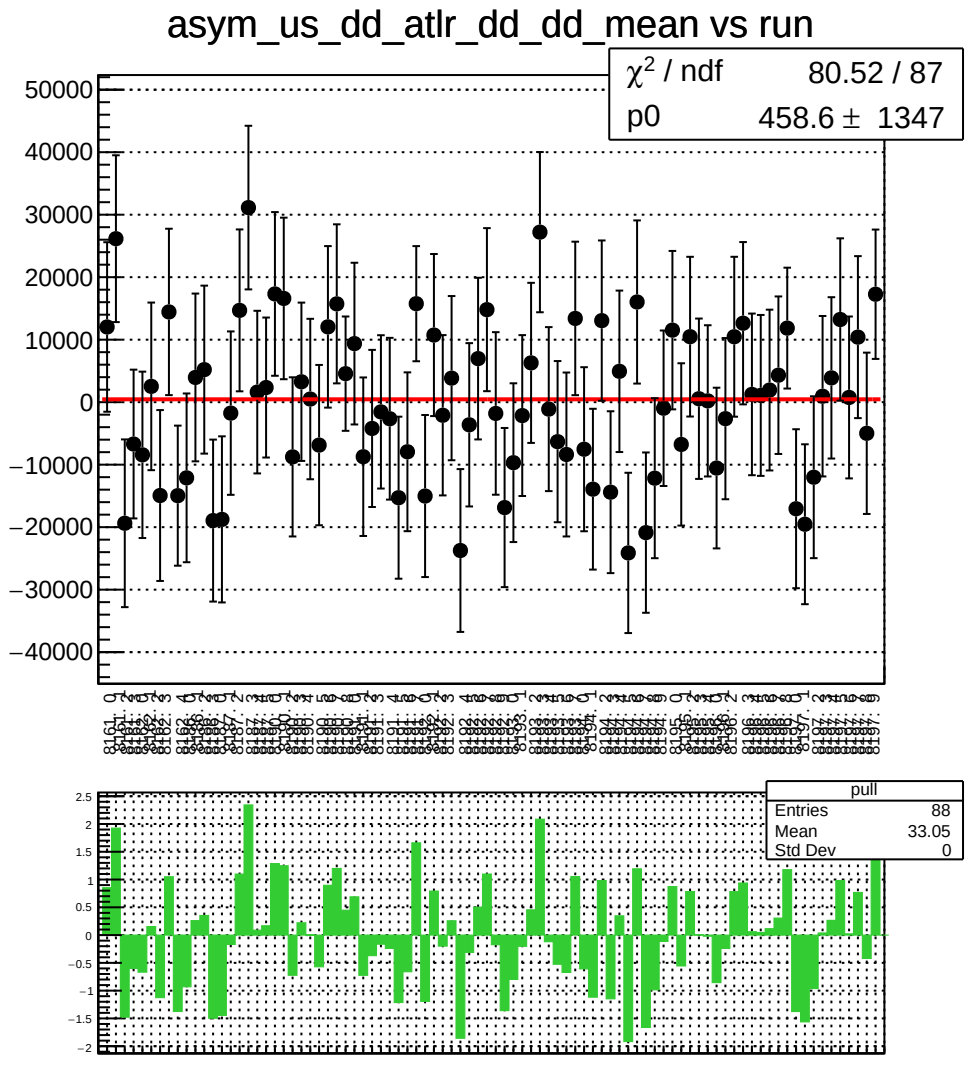

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.08 / 87
p0 −1921 ± 1224
pull
Entries 88
Mean −71.96
Std Dev 0
pull1D
Entries 88
Mean −0.01311
Std Dev 0.9715

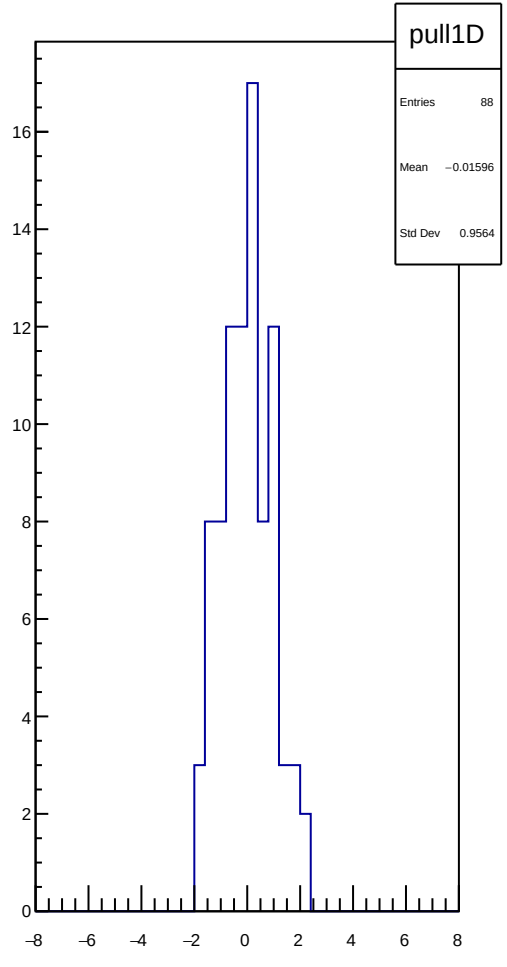

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 367.3 / 87
p0 1117 ± 0.8655
1180
1160
1140
1120
1100
1080

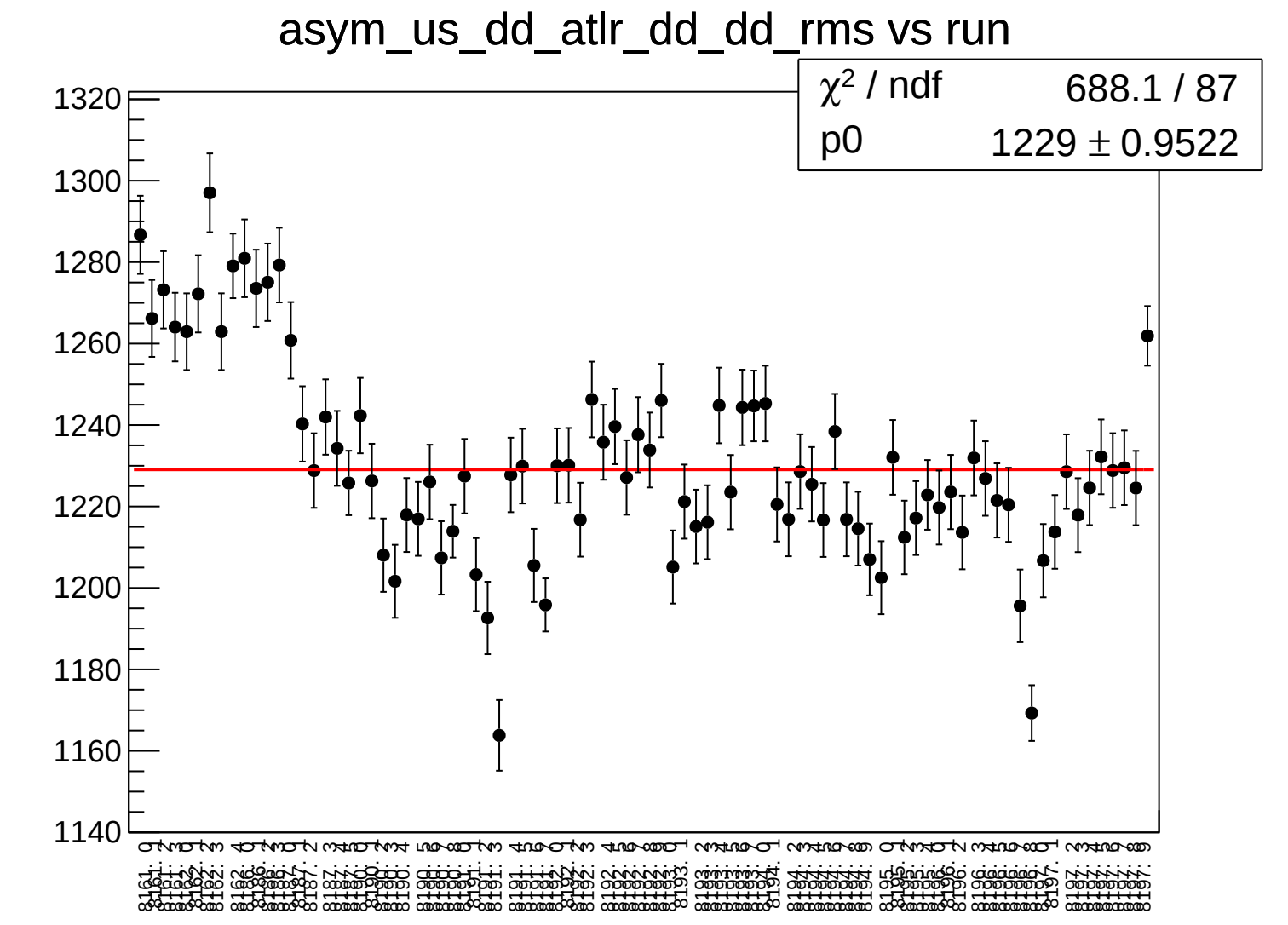

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.33 / 87
p0 −2356 ± 532.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 456.6
Std Dev 0
2
1
0
−1
−2

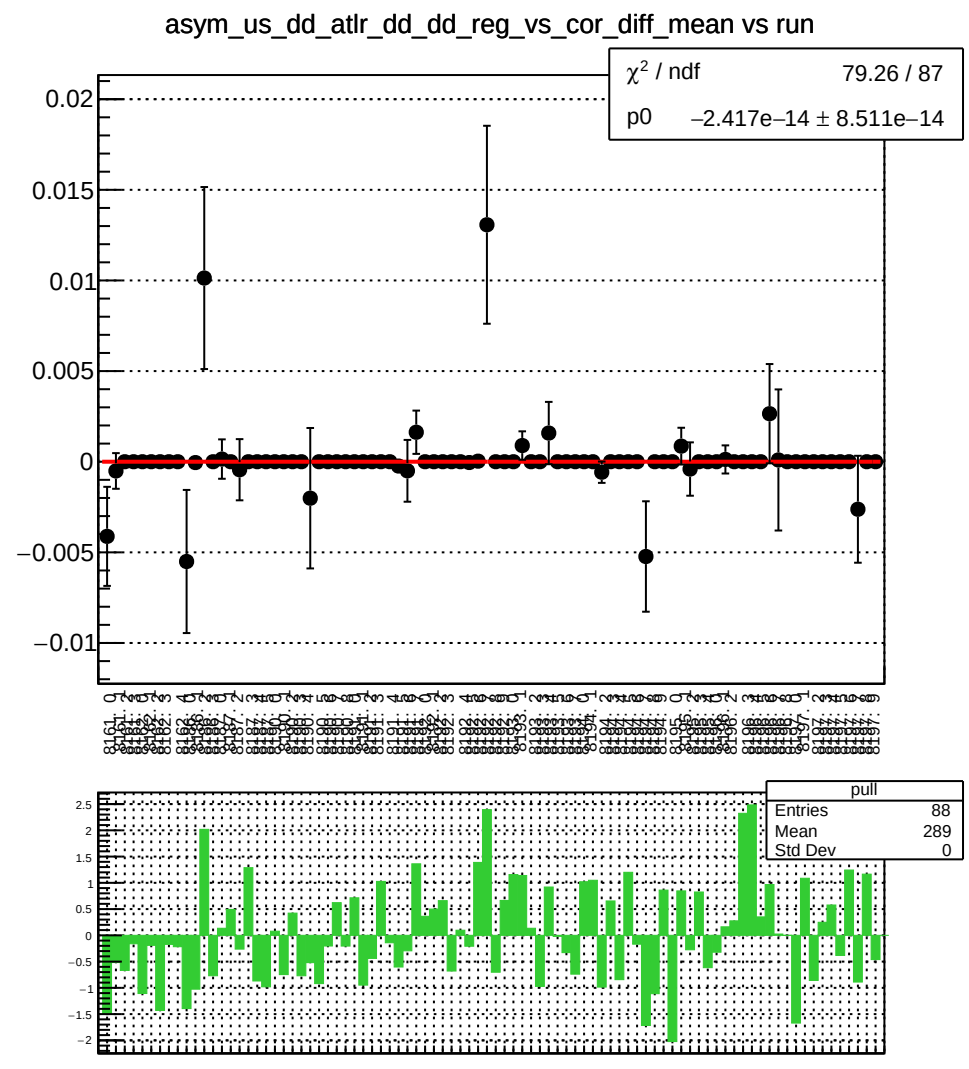

pull1D
Entries 88
Mean 0.007533
Std Dev 0.919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

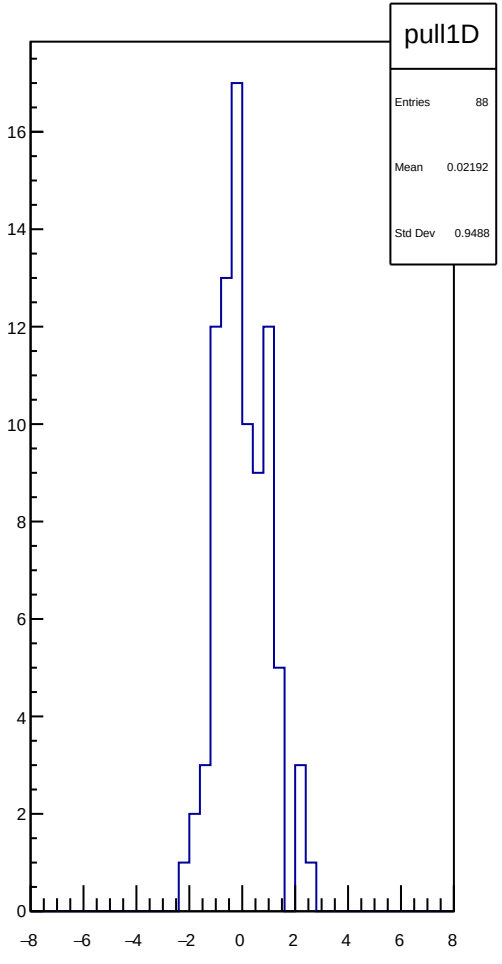

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4467 / 87
p0 485.3 ± 0.3764
560
540
520
500
480
460
440

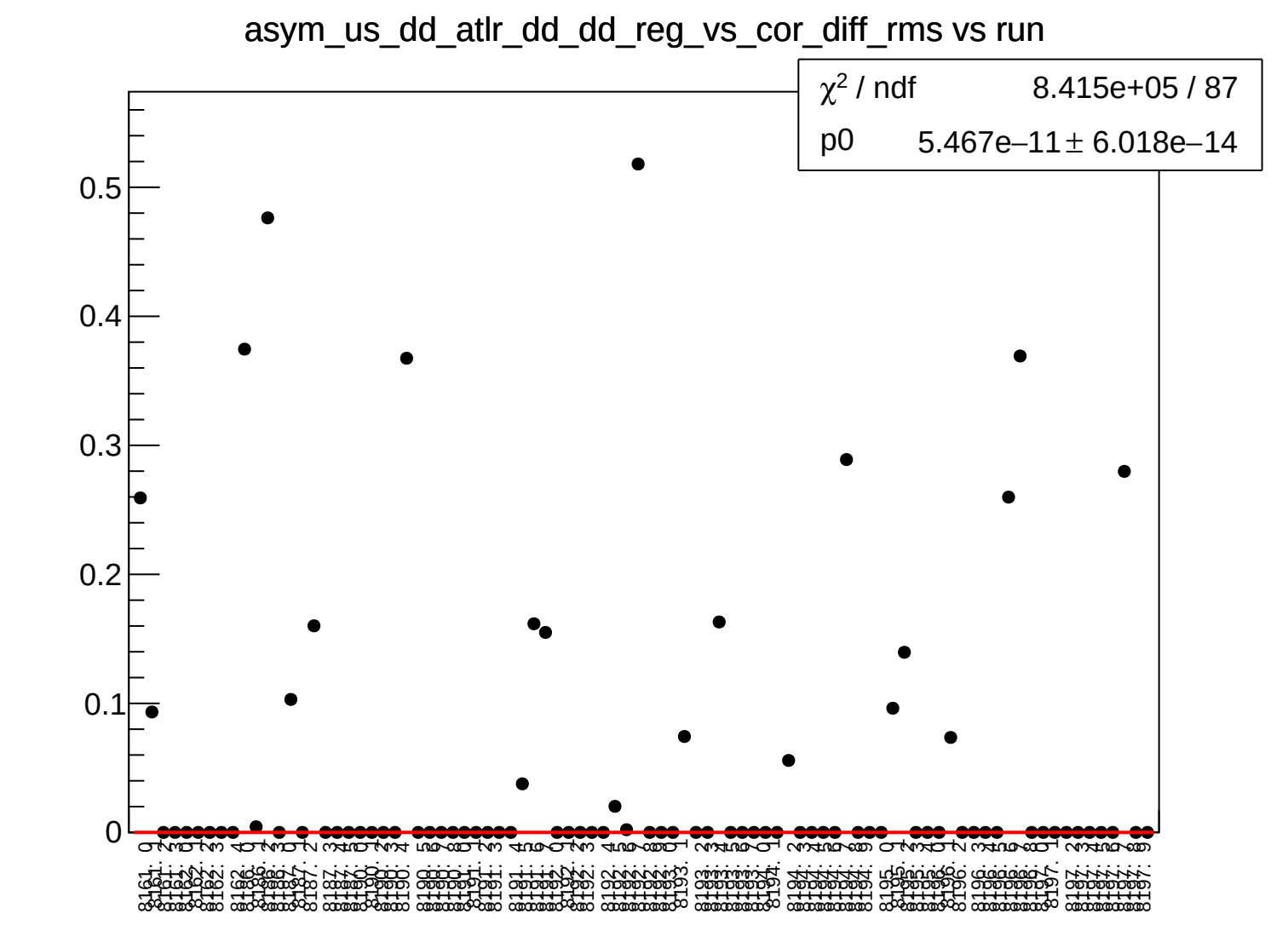

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 80.52 / 87
p0 458.6 ± 1347
pull
Entries 88
Mean 33.05
Std Dev 0

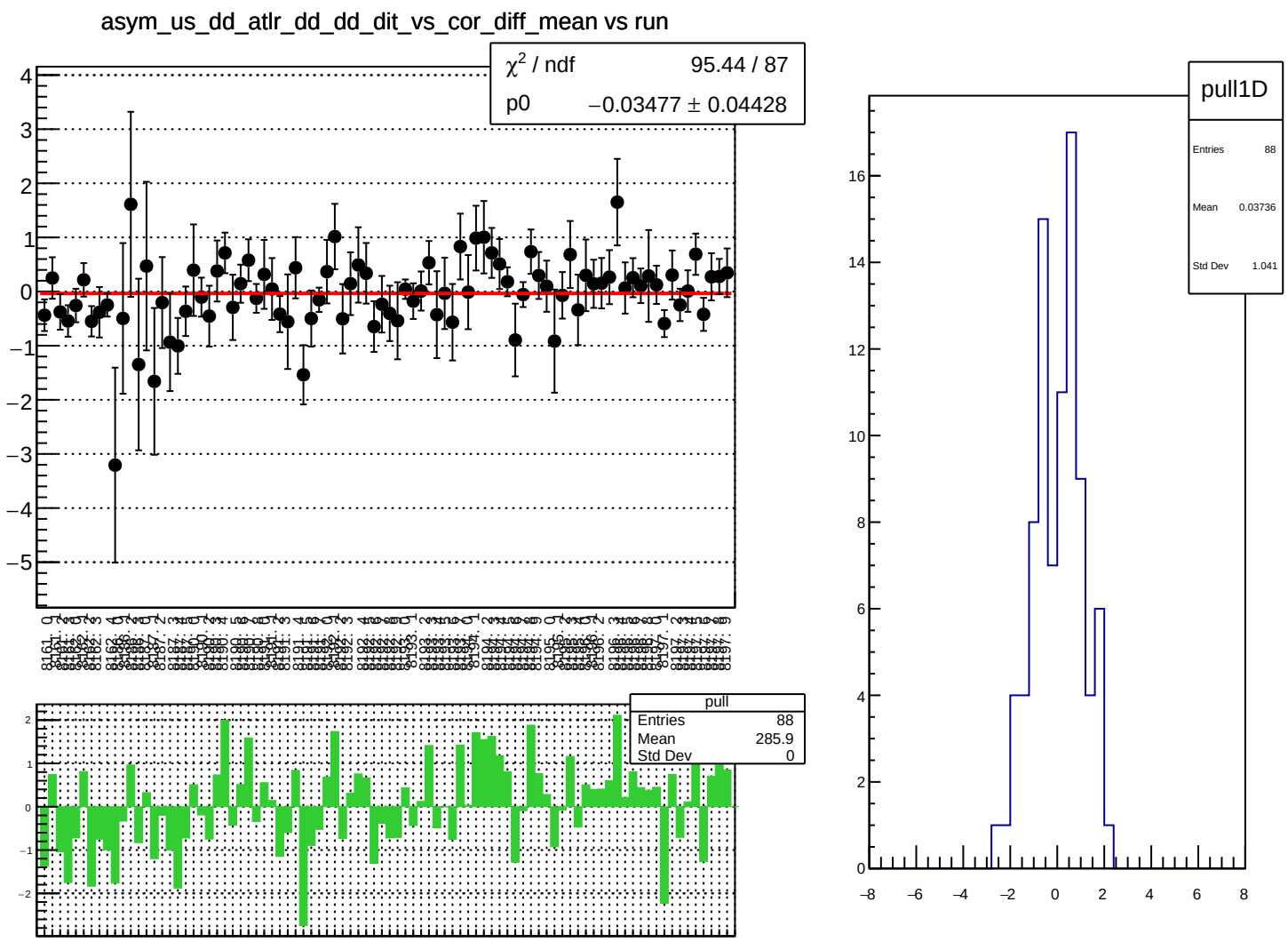

pull1D
Entries 88
Mean −0.01596
Std Dev 0.9564

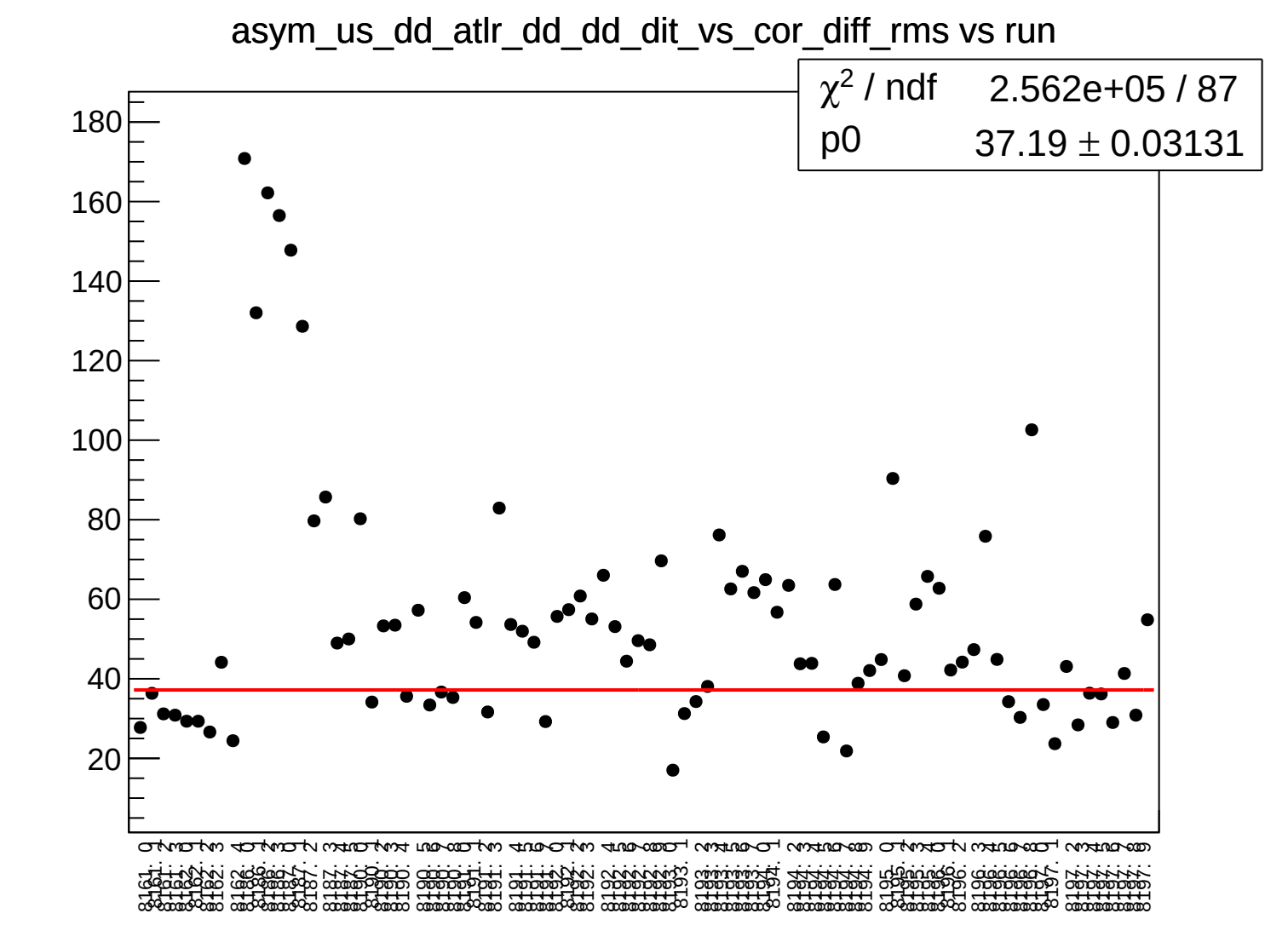

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 688.1 / 87
p0 1229 ± 0.9522
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

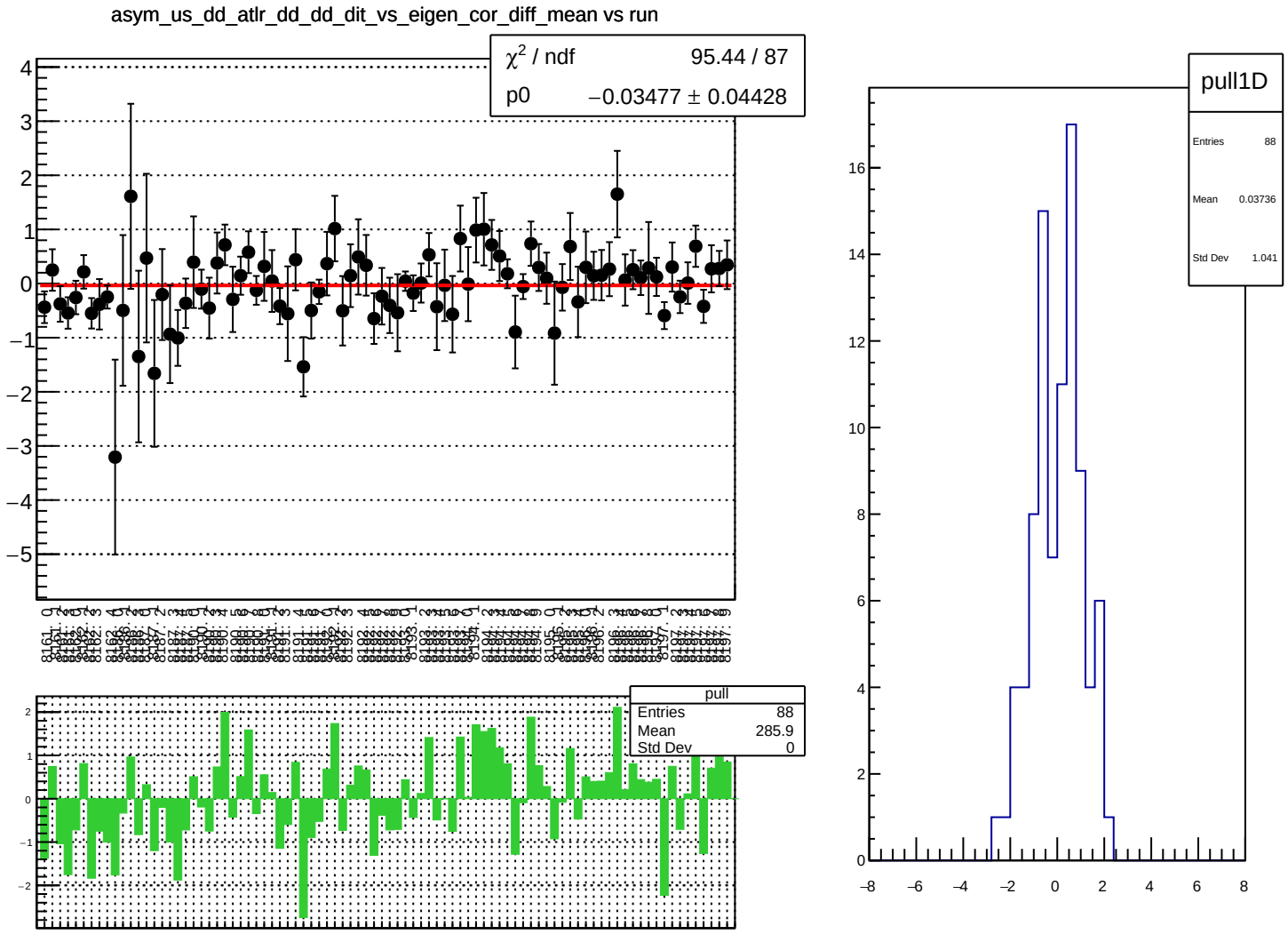

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.26 / 87
p0 −2.417e−14 ± 8.511e−14
pull
Entries 88
Mean 289
Std Dev 0

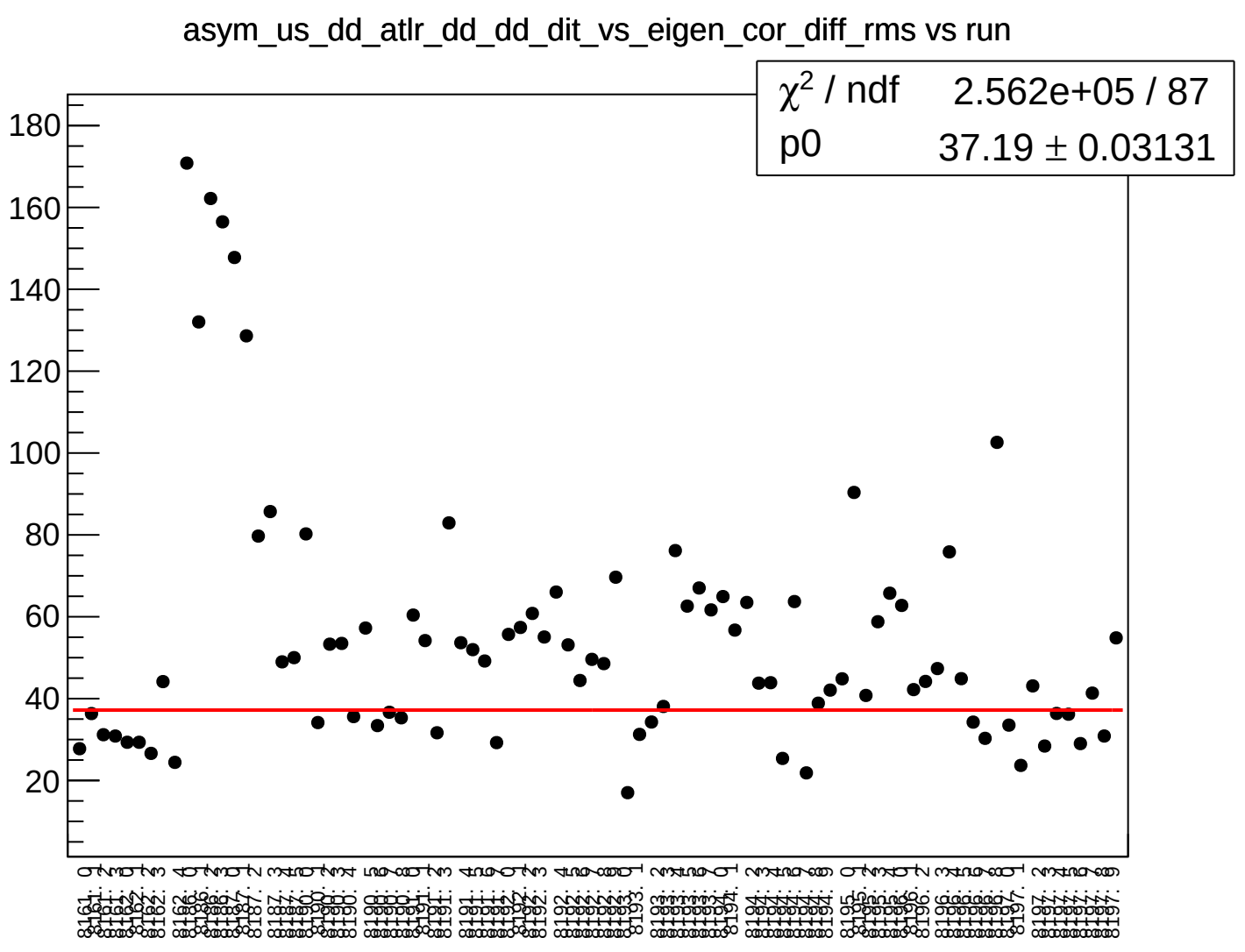

pull1D
Entries 88
Mean 0.02192
Std Dev 0.9488

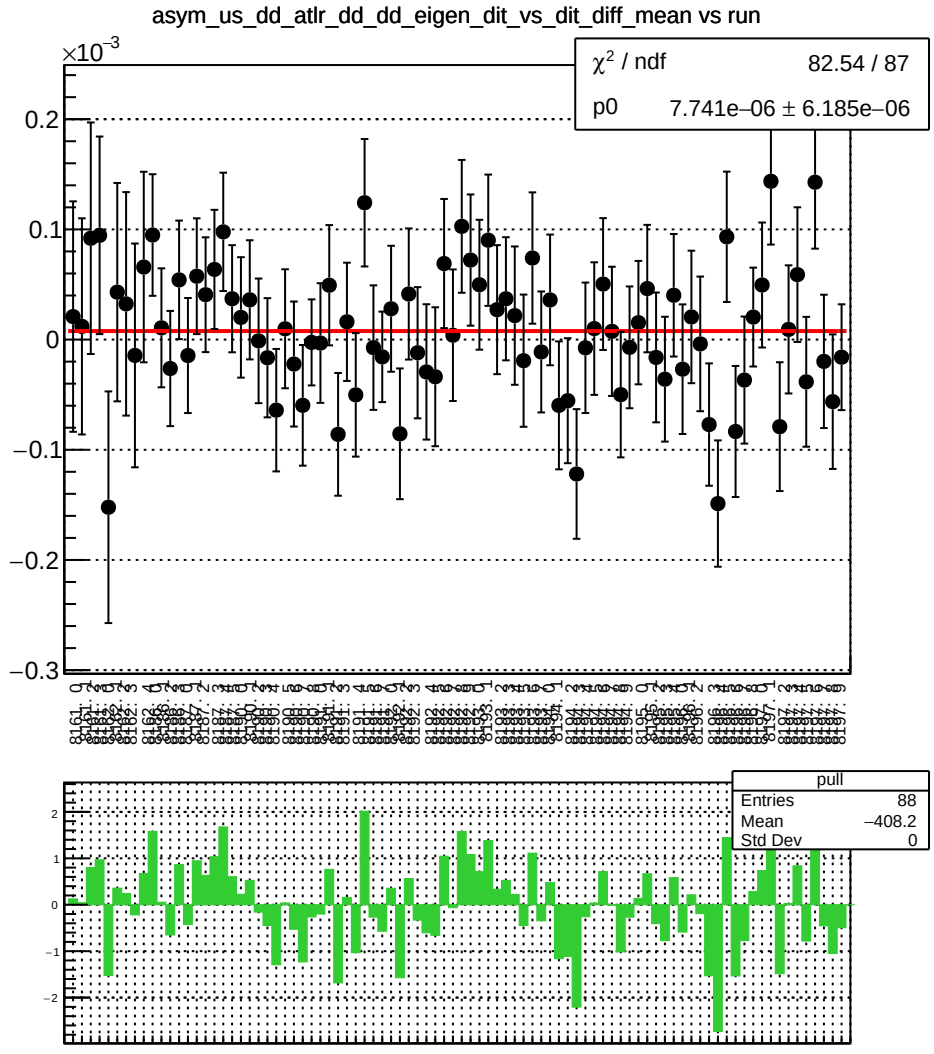

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.415e+05 / 87
p0 5.467e−11 ± 6.018e−14
0.5
0.4
0.3
0.2
0.1
0

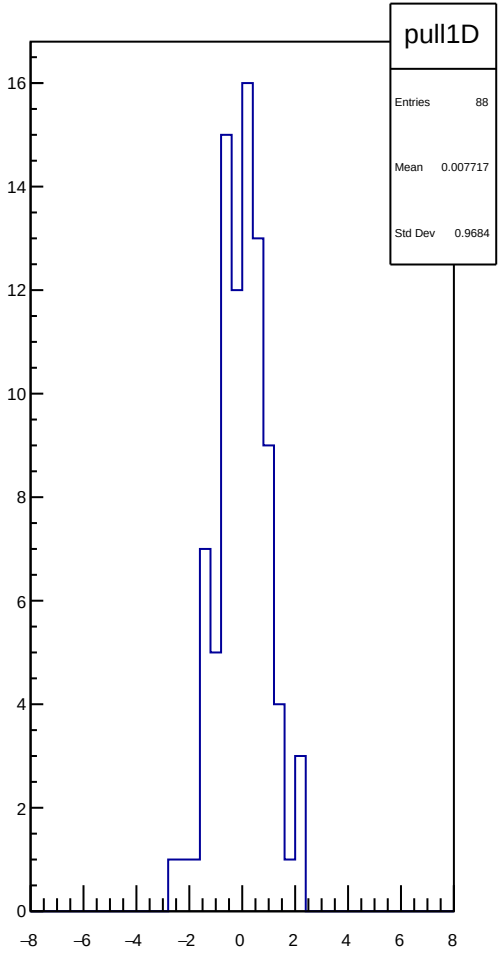

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.44 / 87
p0 −0.03477 ± 0.04428
pull
Entries 88
Mean 285.9
Std Dev 0
pull1D
Entries 88
Mean 0.03736
Std Dev 1.041

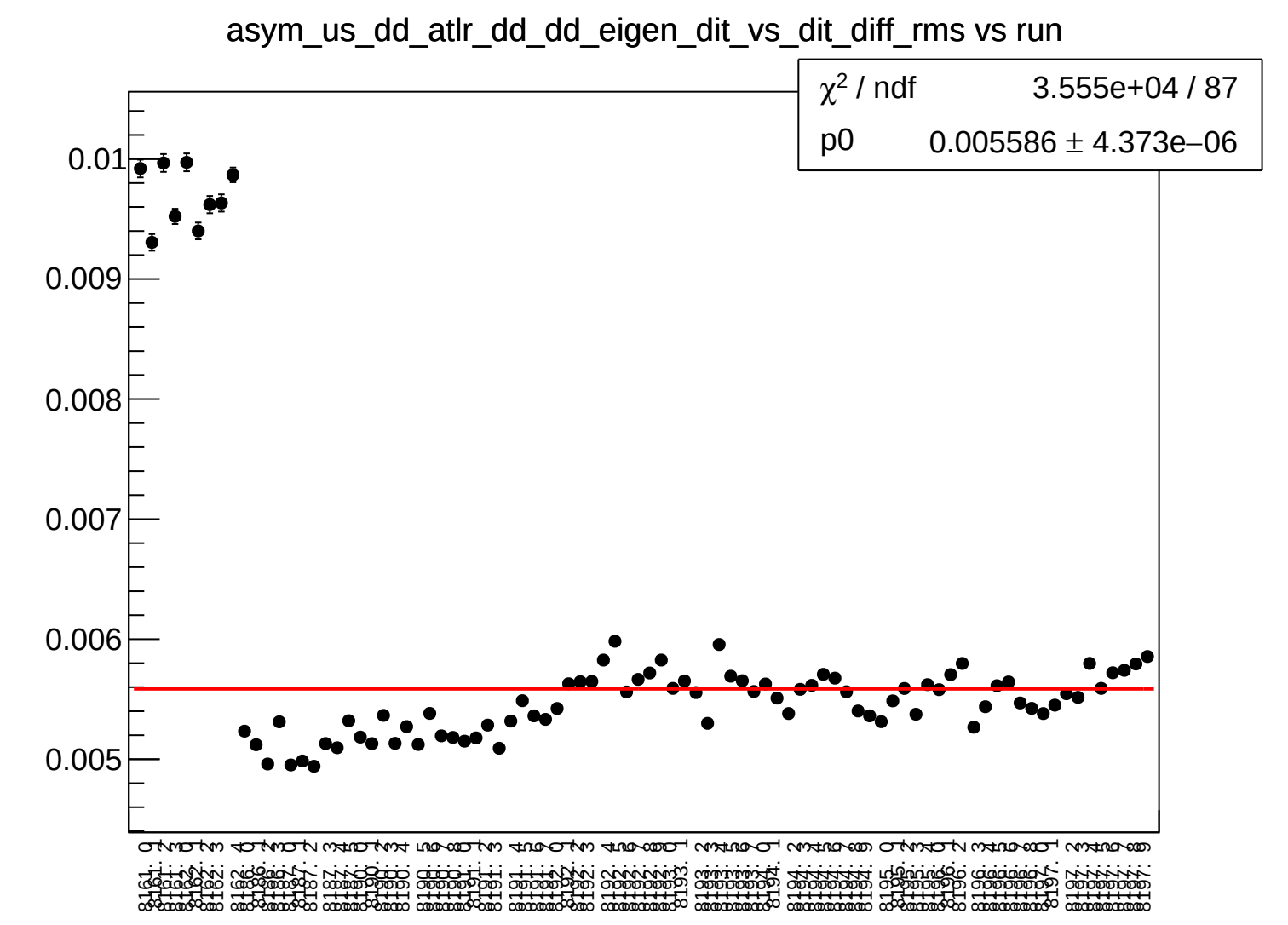

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.562e+05 / 87
p0 37.19 ± 0.03131
180
160
140
120
100
80
60
40
20

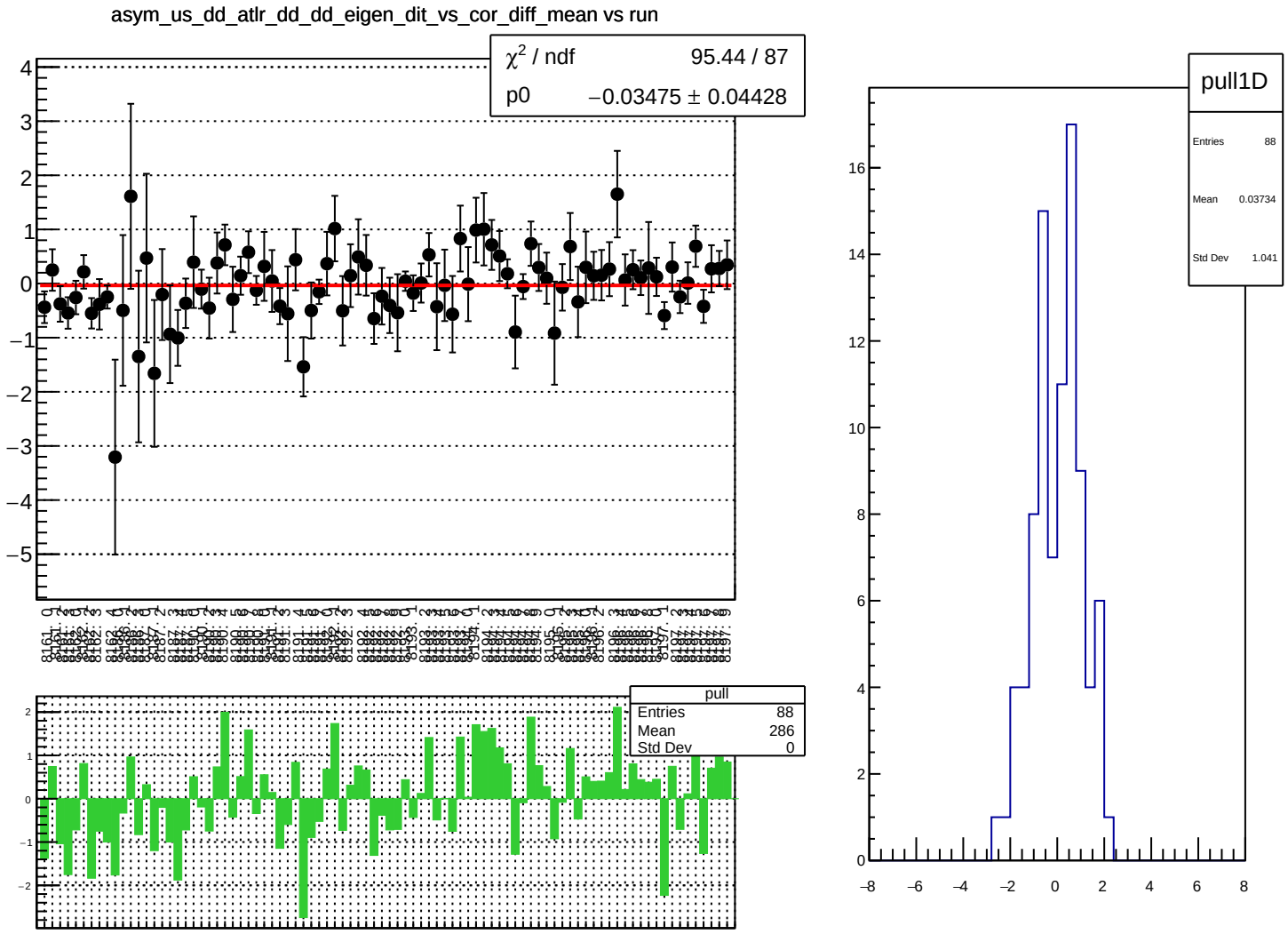

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.44 / 87
p0 −0.03477 ± 0.04428
pull
Entries 88
Mean 285.9
Std Dev 0
pull1D
Entries 88
Mean 0.03736
Std Dev 1.041

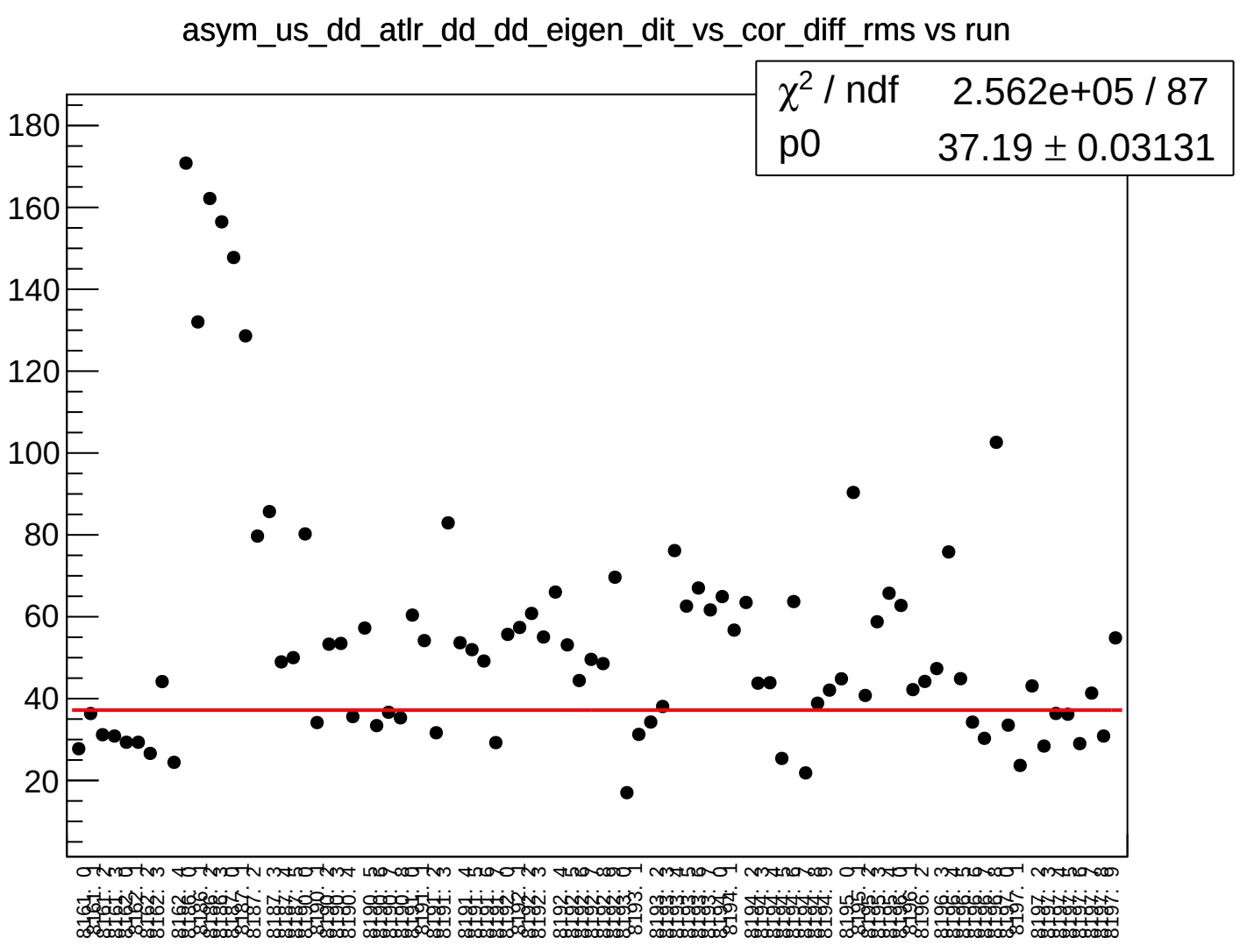

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.562e+05 / 87
p0 37.19 ± 0.03131
180
160
140
120
100
80
60
40
20

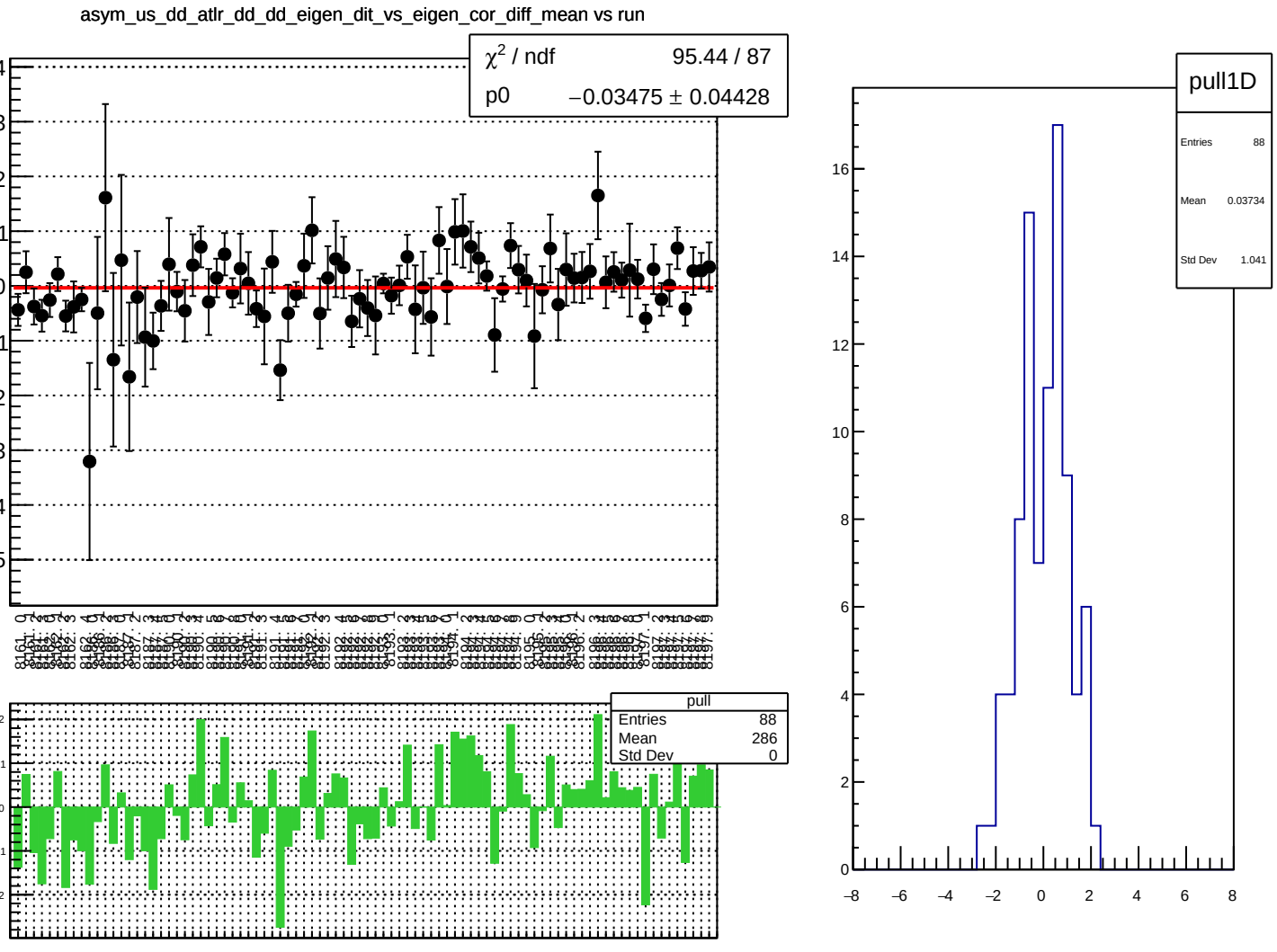

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.54 / 87
p0 7.741e−06 ± 6.185e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean −408.2
Std Dev 0
2
1
0
−1
−2

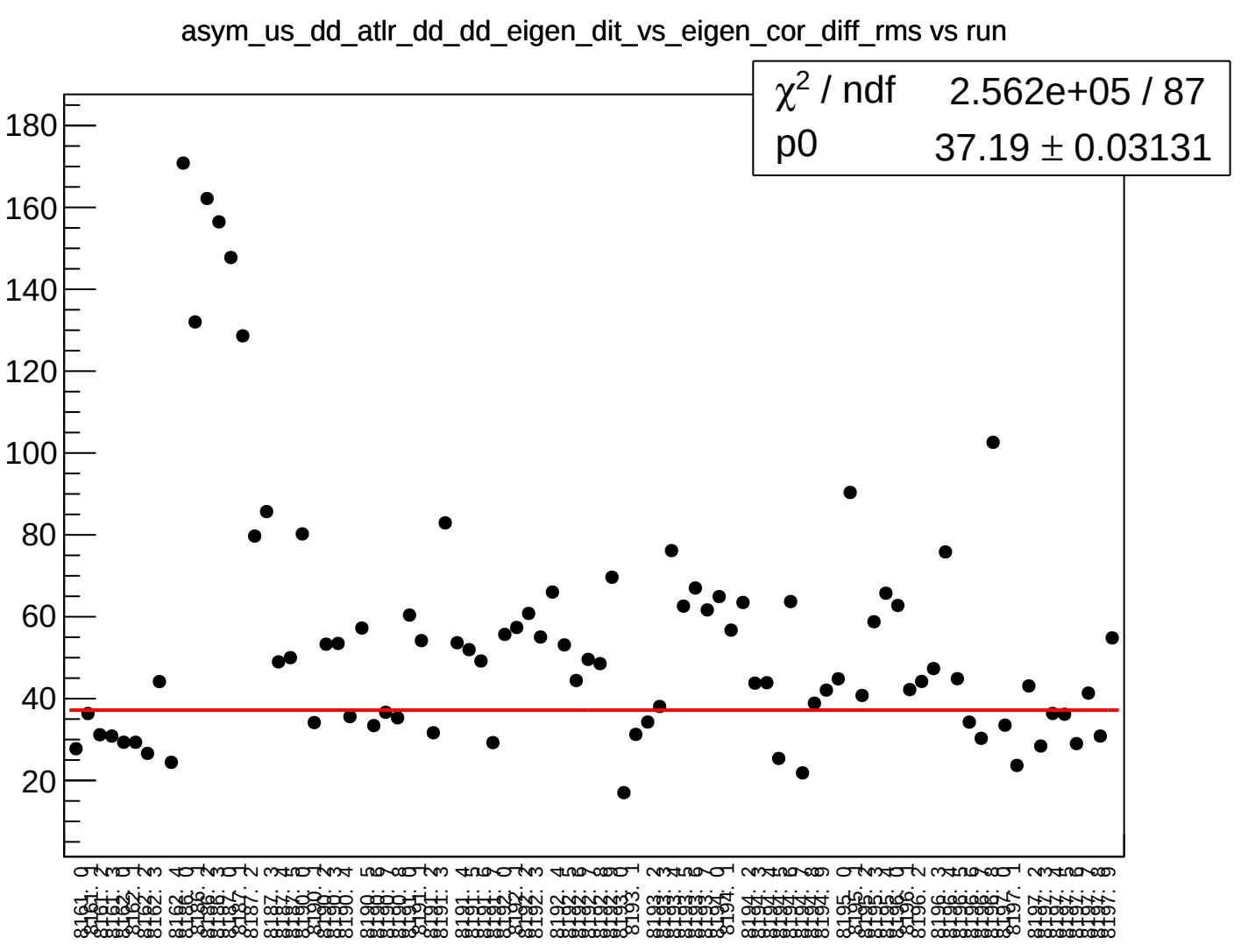

pull1D
Entries 88
Mean 0.007717
Std Dev 0.9684
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

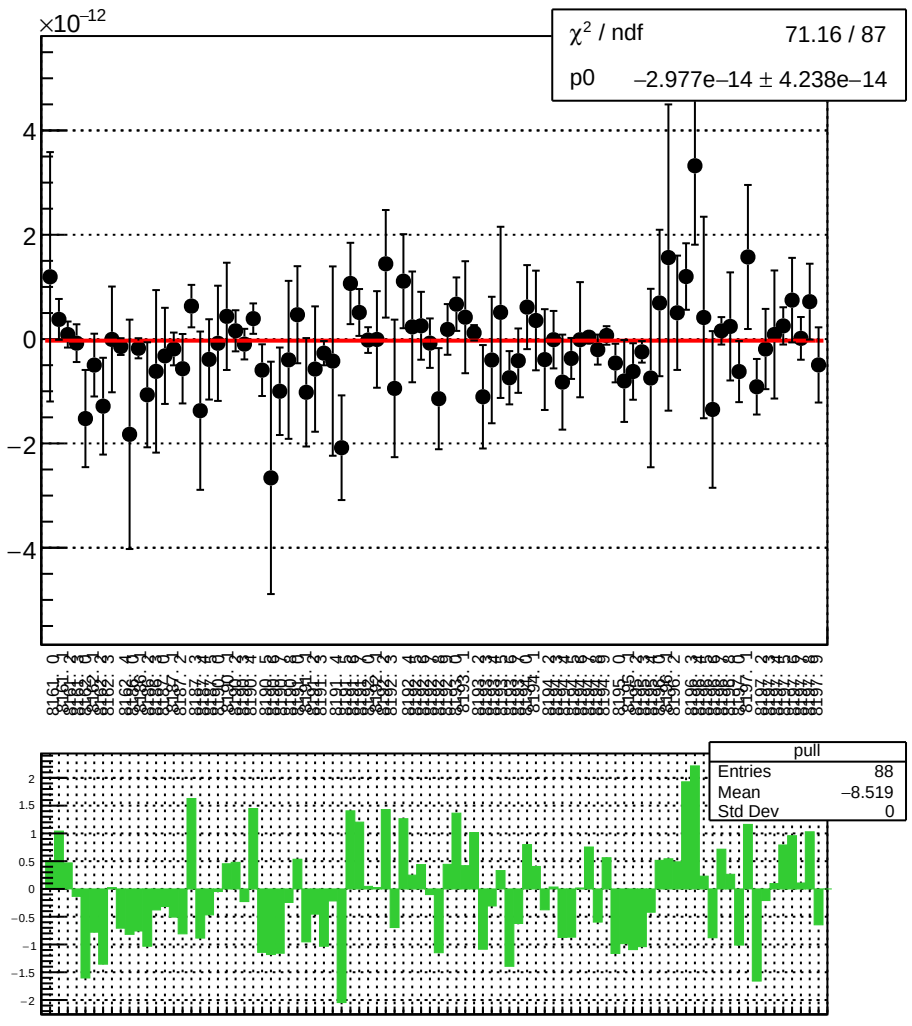

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 3.555e+04 / 87
p0 0.005586 ± 4.373e−06
0.01
0.009
0.008
0.007
0.006
0.005

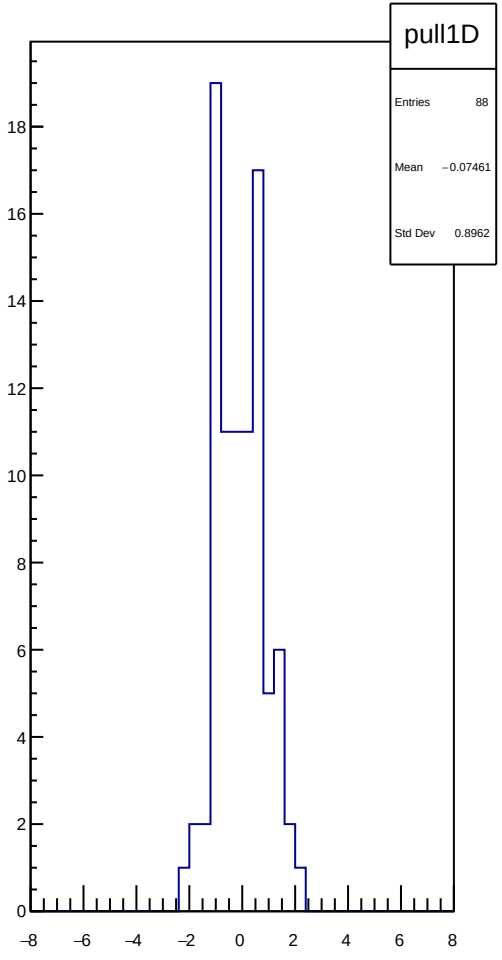

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.44 / 87
p0 −0.03475 ± 0.04428
pull
Entries 88
Mean 286
Std Dev 0
pull1D
Entries 88
Mean 0.03734
Std Dev 1.041

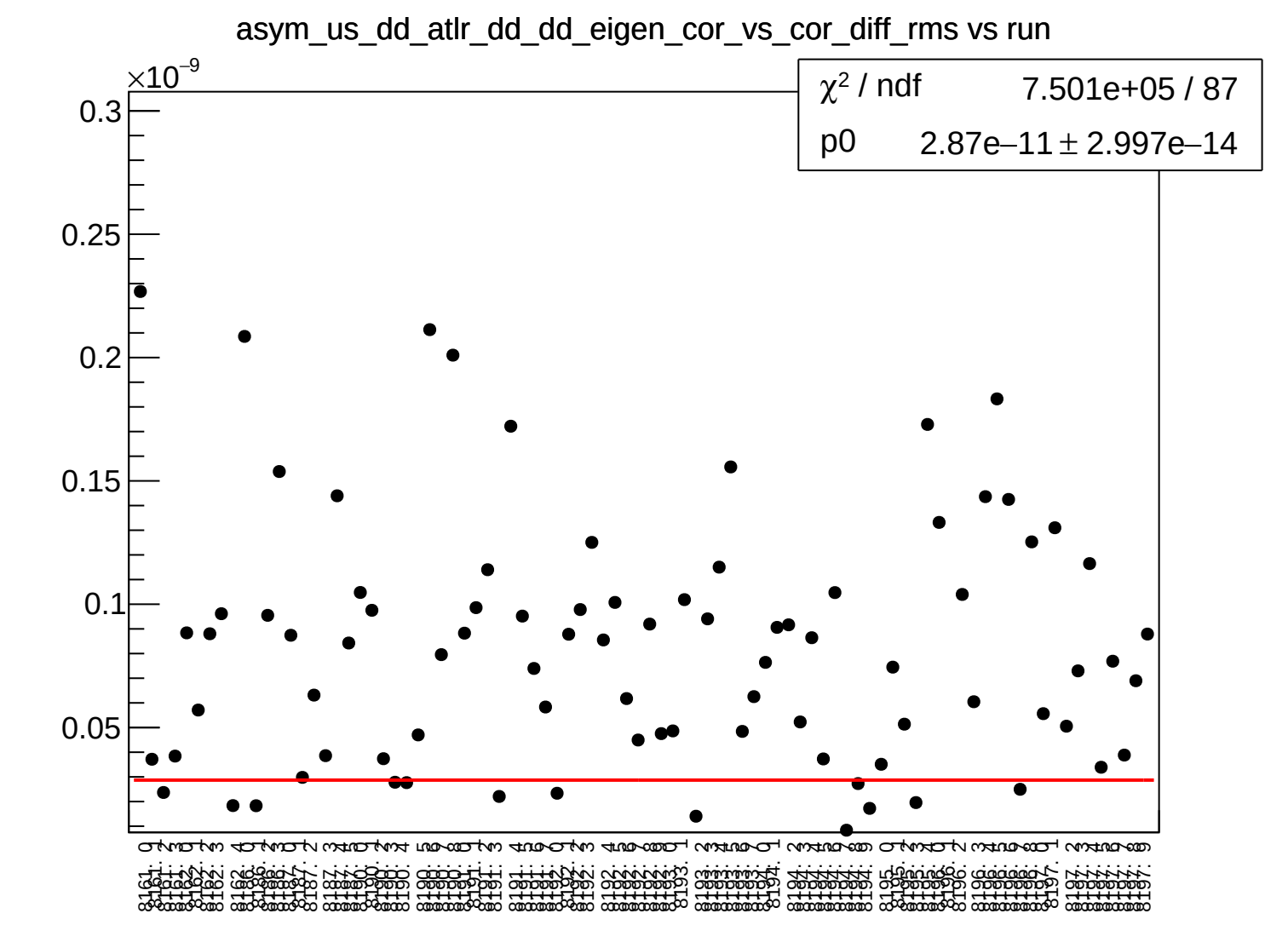

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.562e+05 / 87
p0 37.19 ± 0.03131
180
160
140
120
100
80
60
40
20

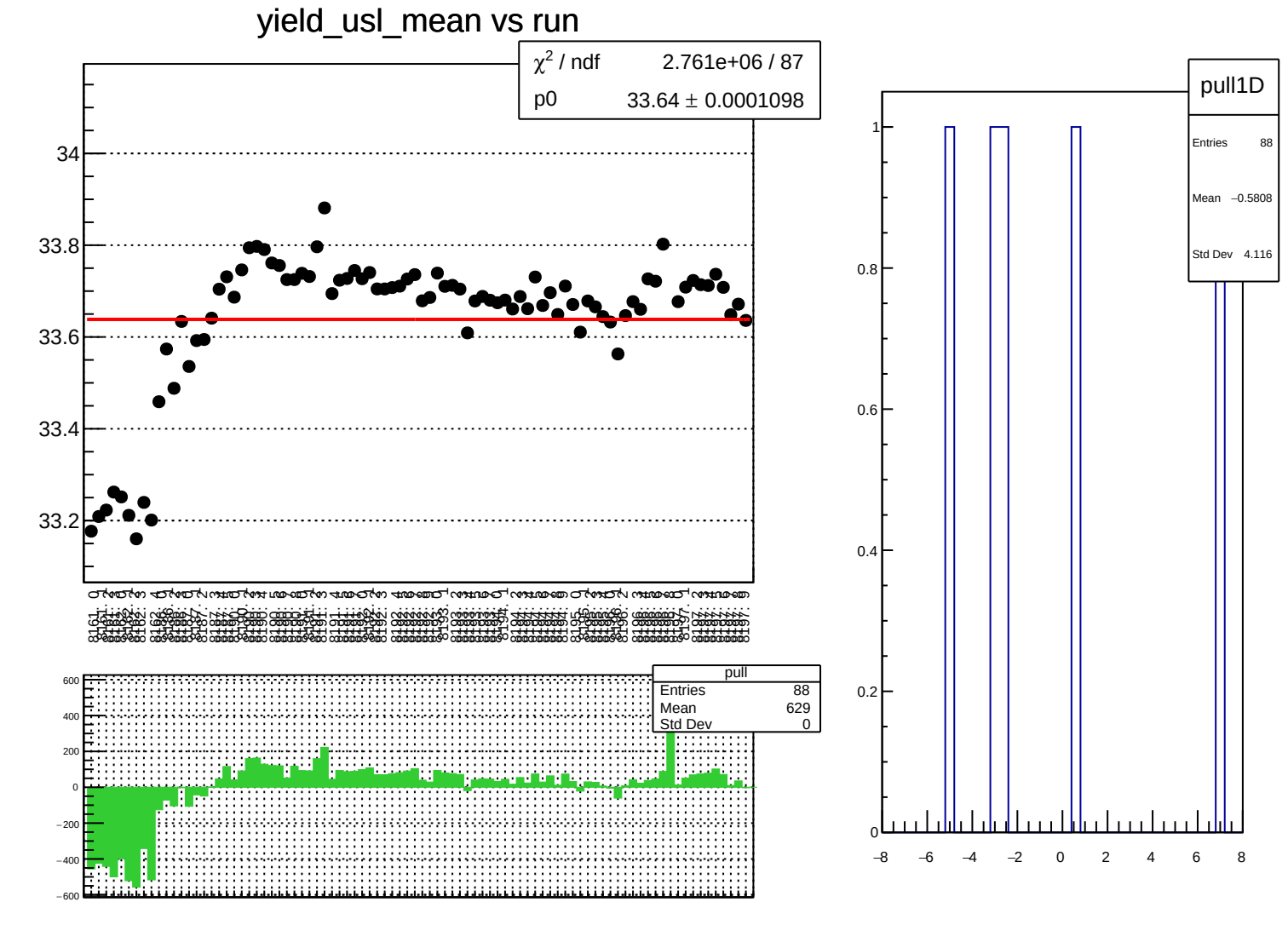

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.44 / 87
p0 −0.03475 ± 0.04428
pull
Entries 88
Mean 286
Std Dev 0
pull1D
Entries 88
Mean 0.03734
Std Dev 1.041

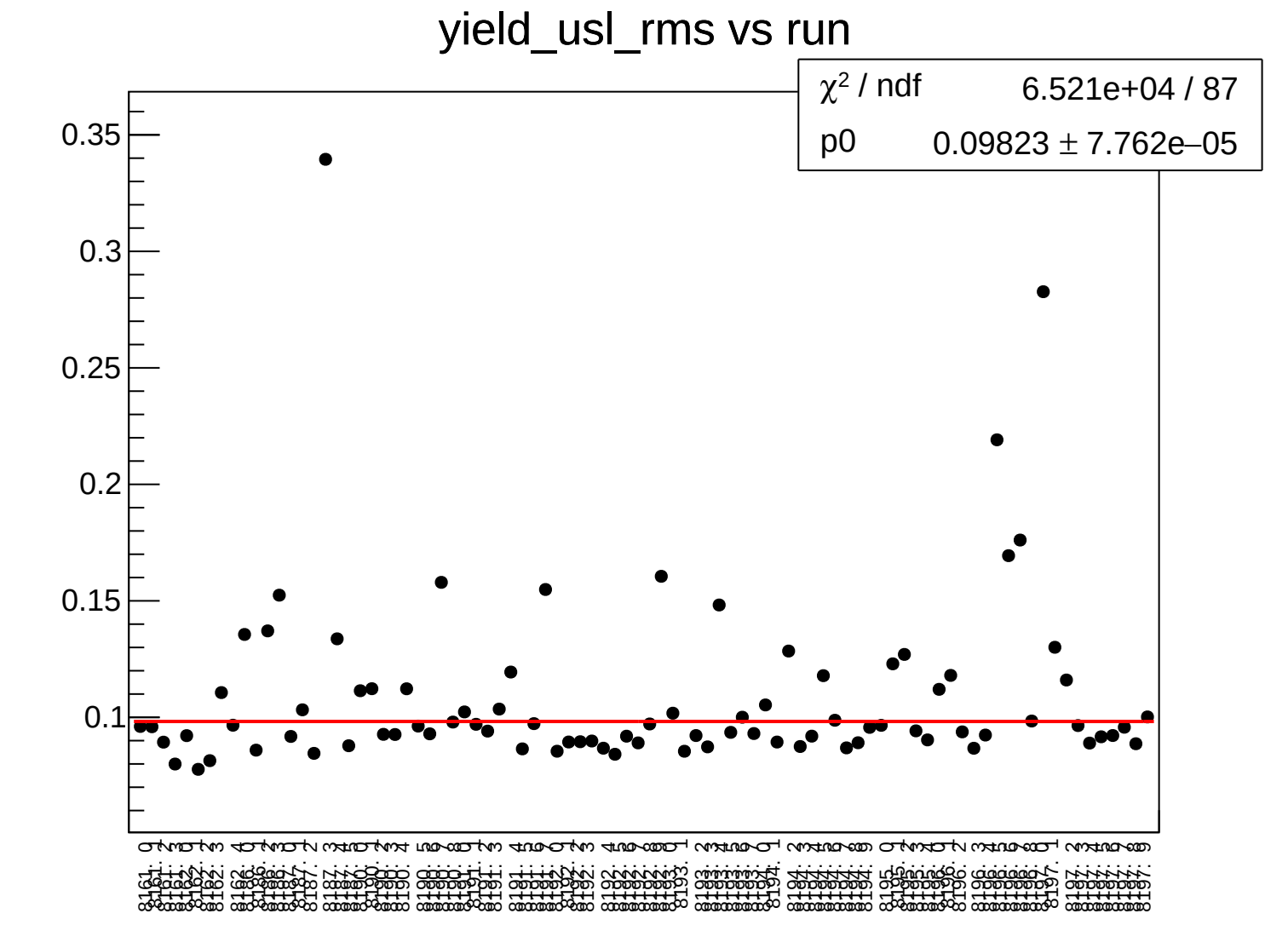

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.562e+05 / 87
p0 37.19 ± 0.03131
180
160
140
120
100
80
60
40
20

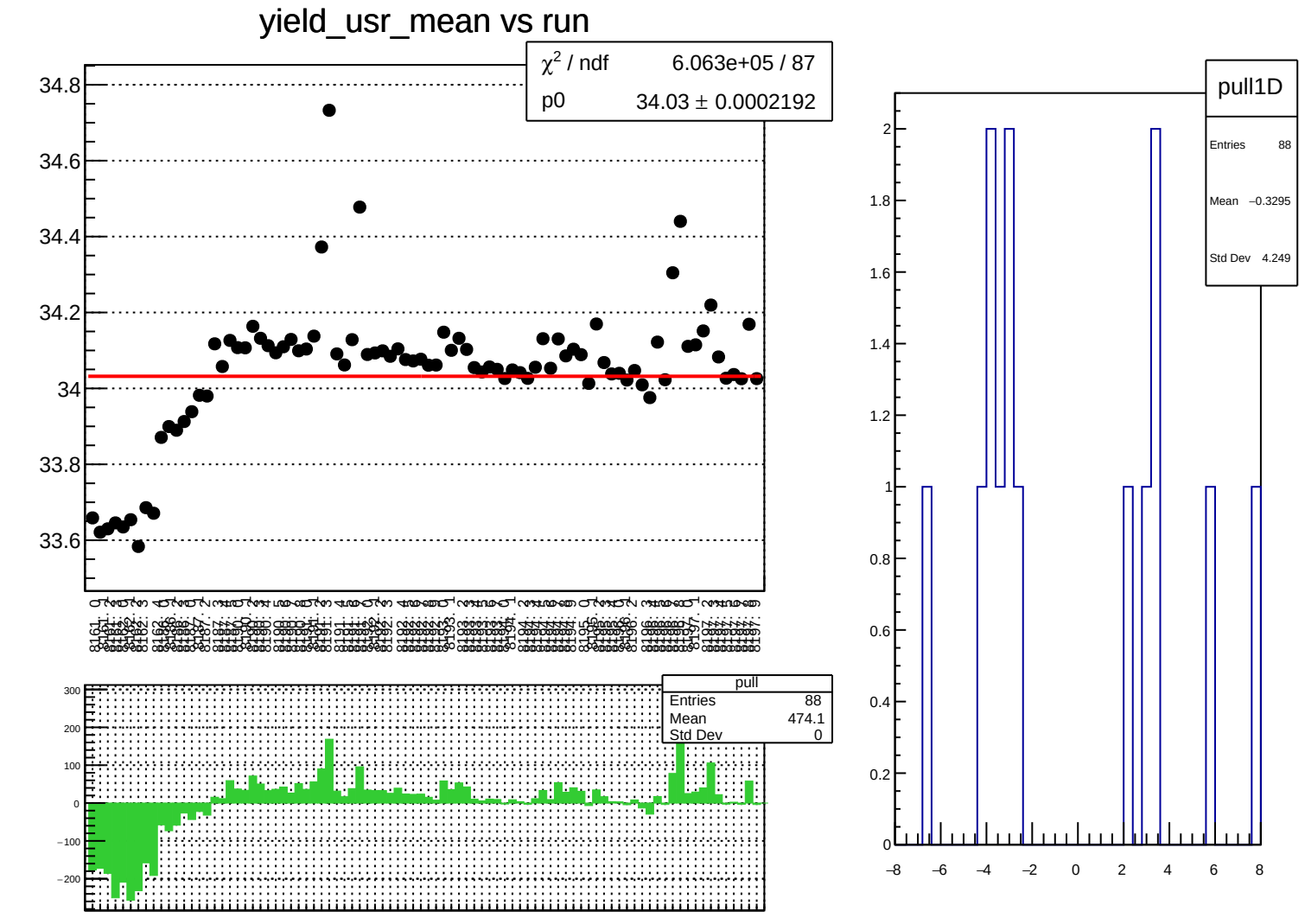

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.16 / 87
p0 −2.977e−14 ± 4.238e−14
pull
Entries 88
Mean −8.519
Std Dev 0

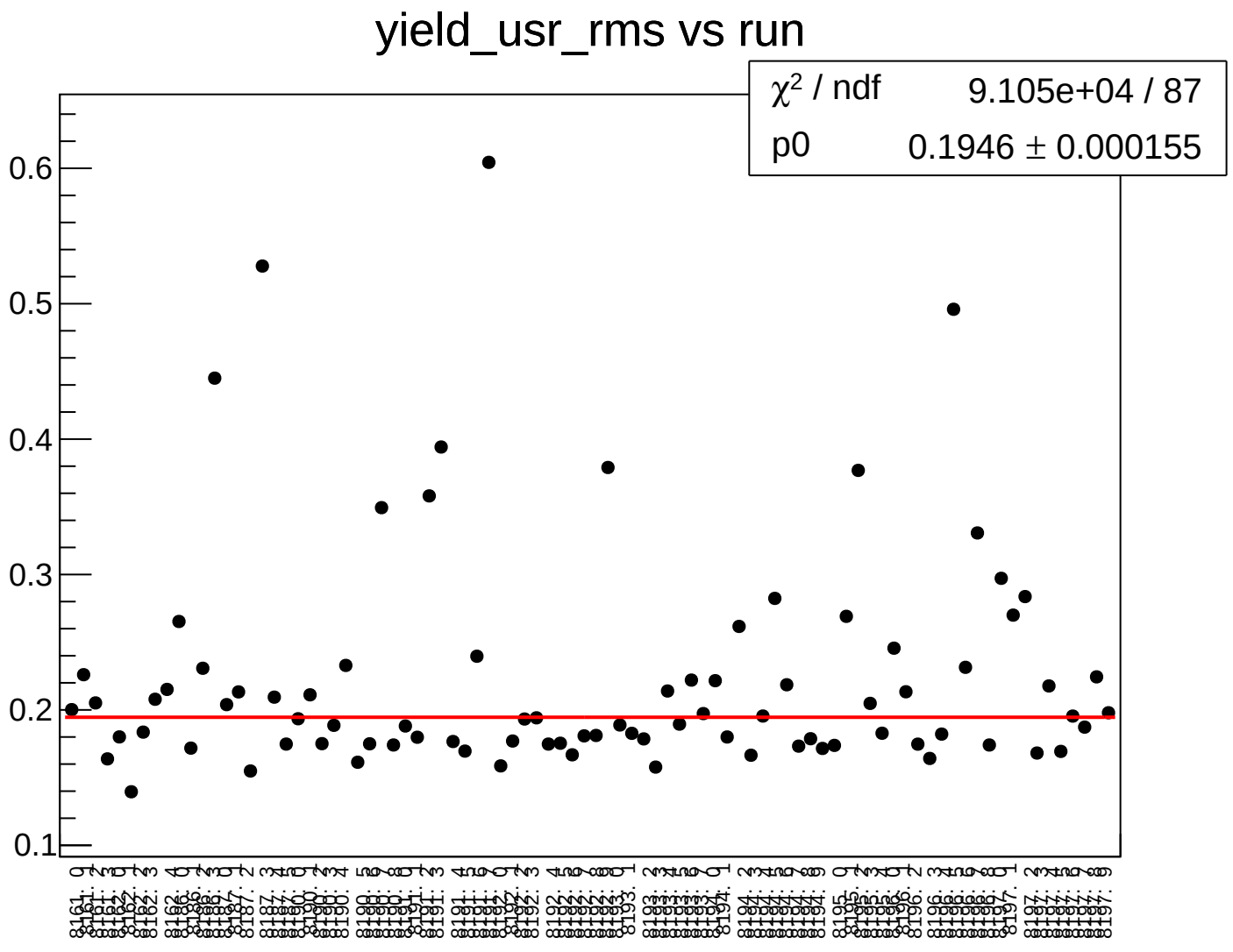

pull1D
Entries 88
Mean −0.07461
Std Dev 0.8962

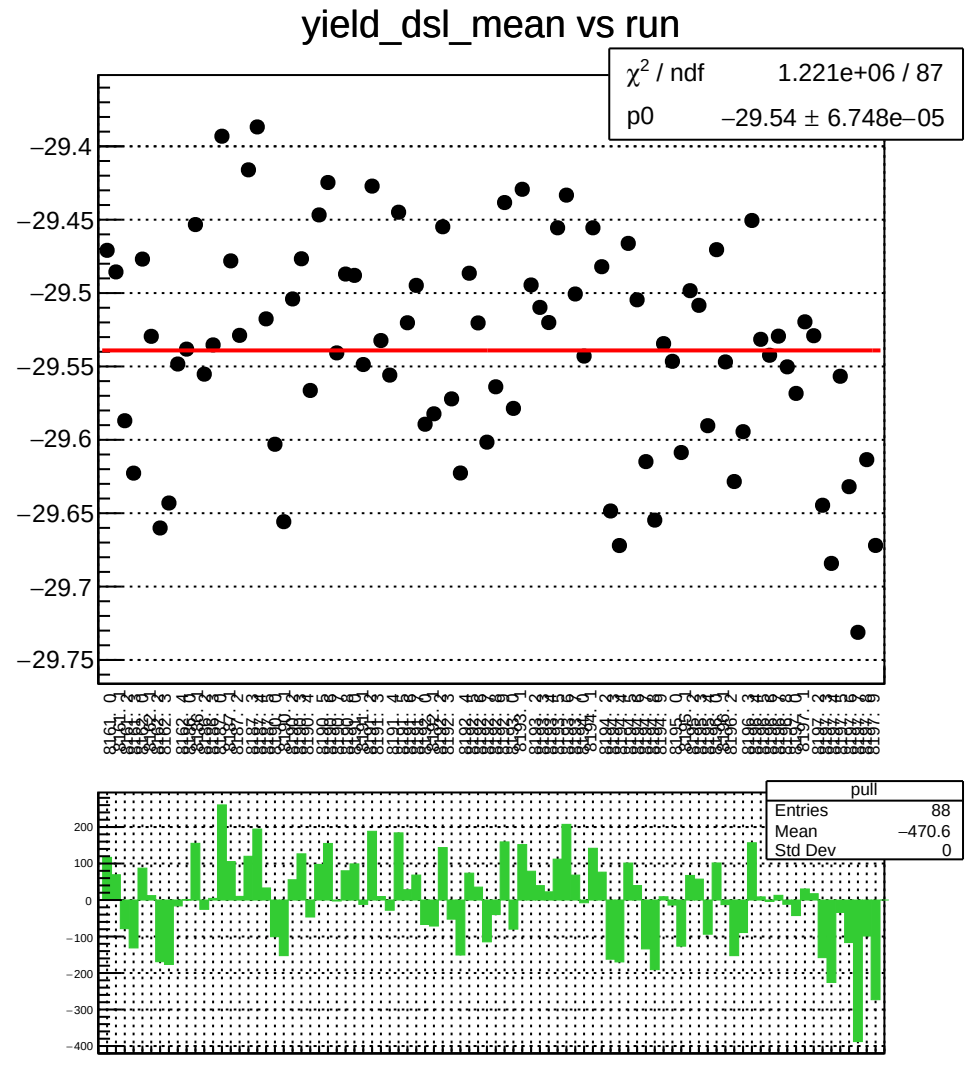

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.501e+05 / 87
p0 2.87e−11 ± 2.997e−14
0.3
0.25
0.2
0.15
0.1
0.05

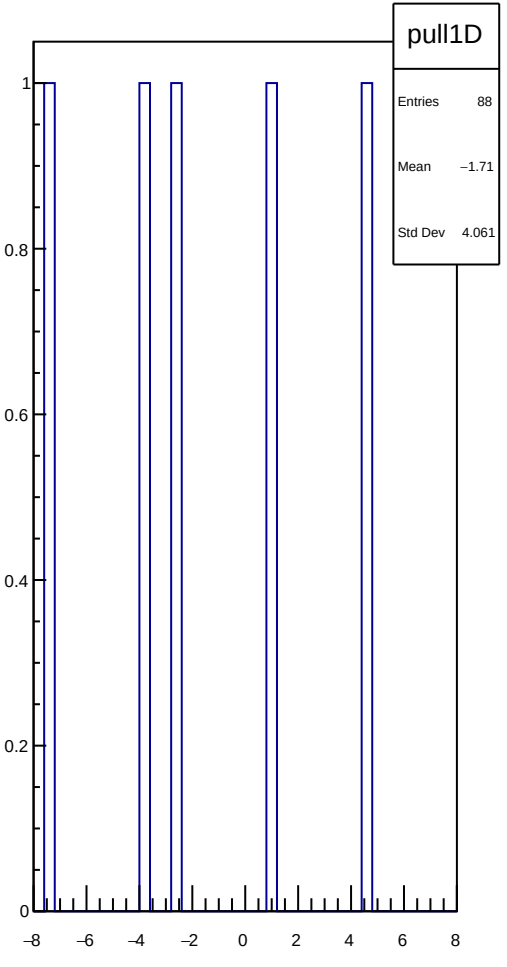

yield_usl_mean vs run
χ² / ndf 2.761e+06 / 87
p0 33.64 ± 0.0001098
34
33.8
33.6
33.4
33.2
pull
Entries 88
Mean 629
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 88
Mean −0.5808
Std Dev 4.116
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

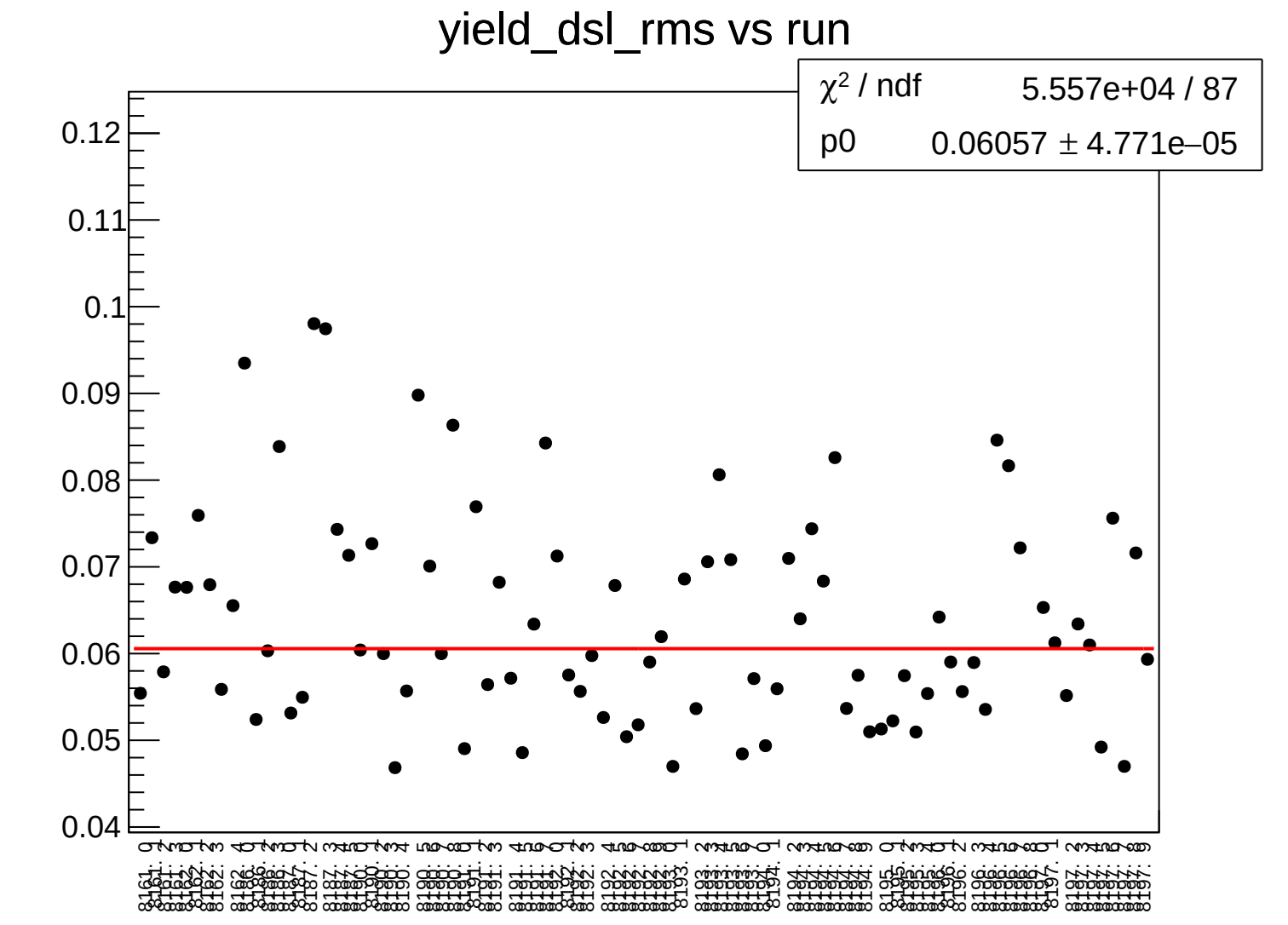

yield_usl_rms vs run
χ² / ndf 6.521e+04 / 87
p0 0.09823 ± 7.762e–05
0.35
0.3
0.25
0.2
0.15
0.1

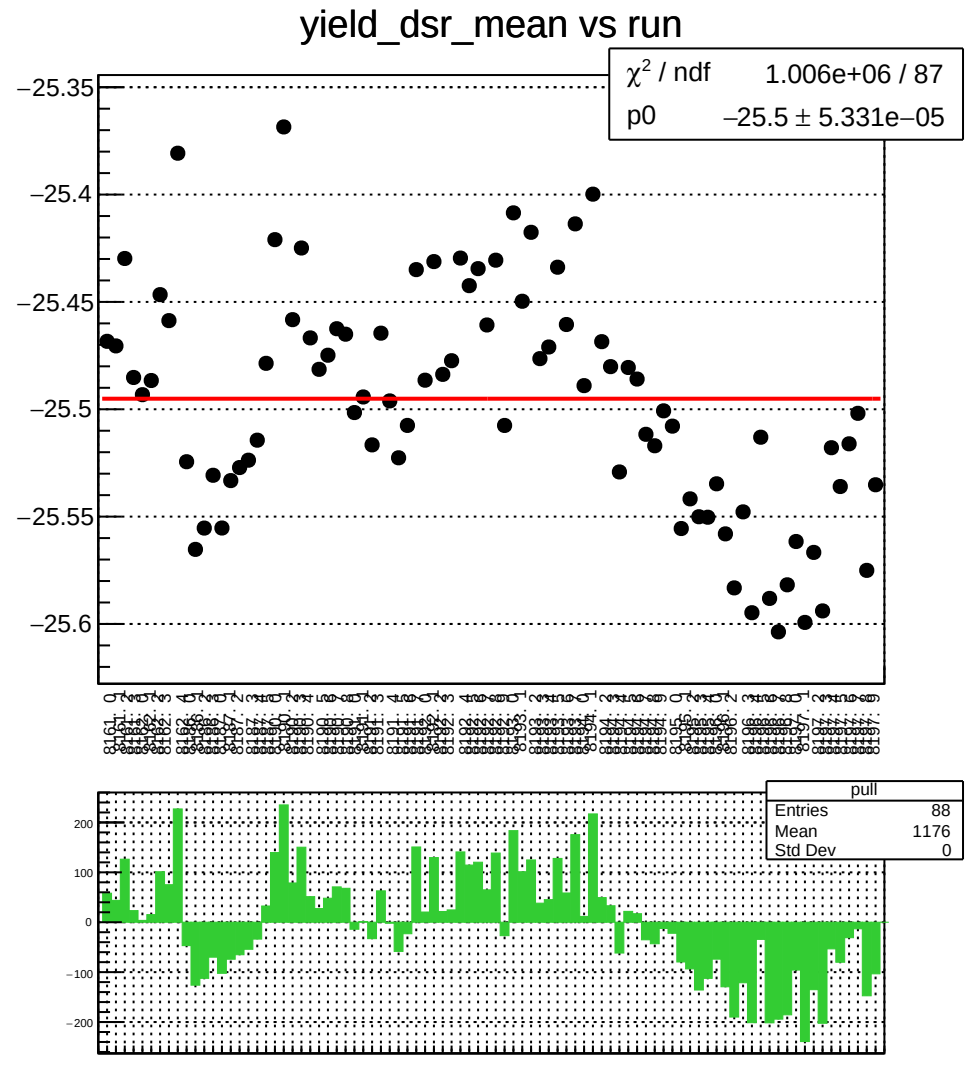

yield_usr_mean vs run
χ² / ndf 6.063e+05 / 87
p0 34.03 ± 0.0002192
34.8
34.6
34.4
34.2
34
33.8
33.6
pull
Entries 88
Mean 474.1
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 88
Mean −0.3295
Std Dev 4.249
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

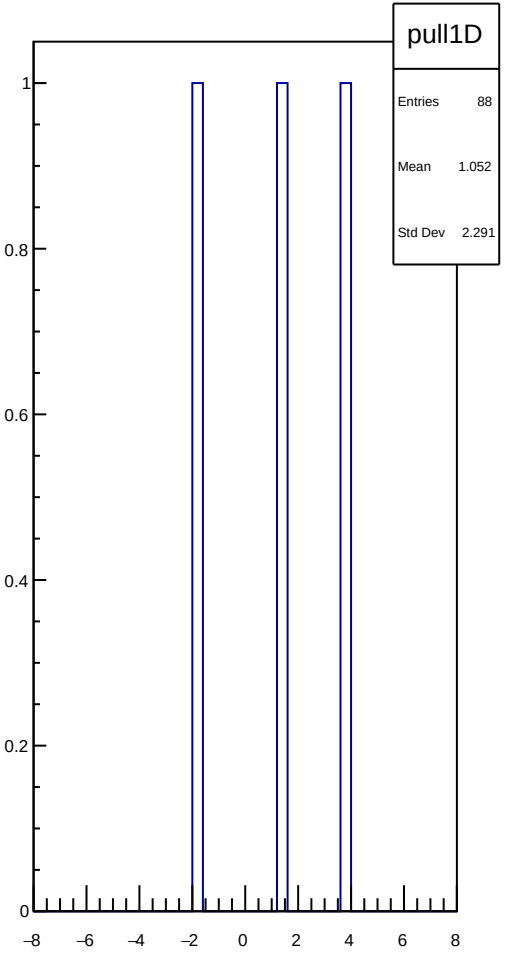

yield_usr_rms vs run
χ² / ndf 9.105e+04 / 87
p0 0.1946 ± 0.000155
0.6
0.5
0.4
0.3
0.2
0.1

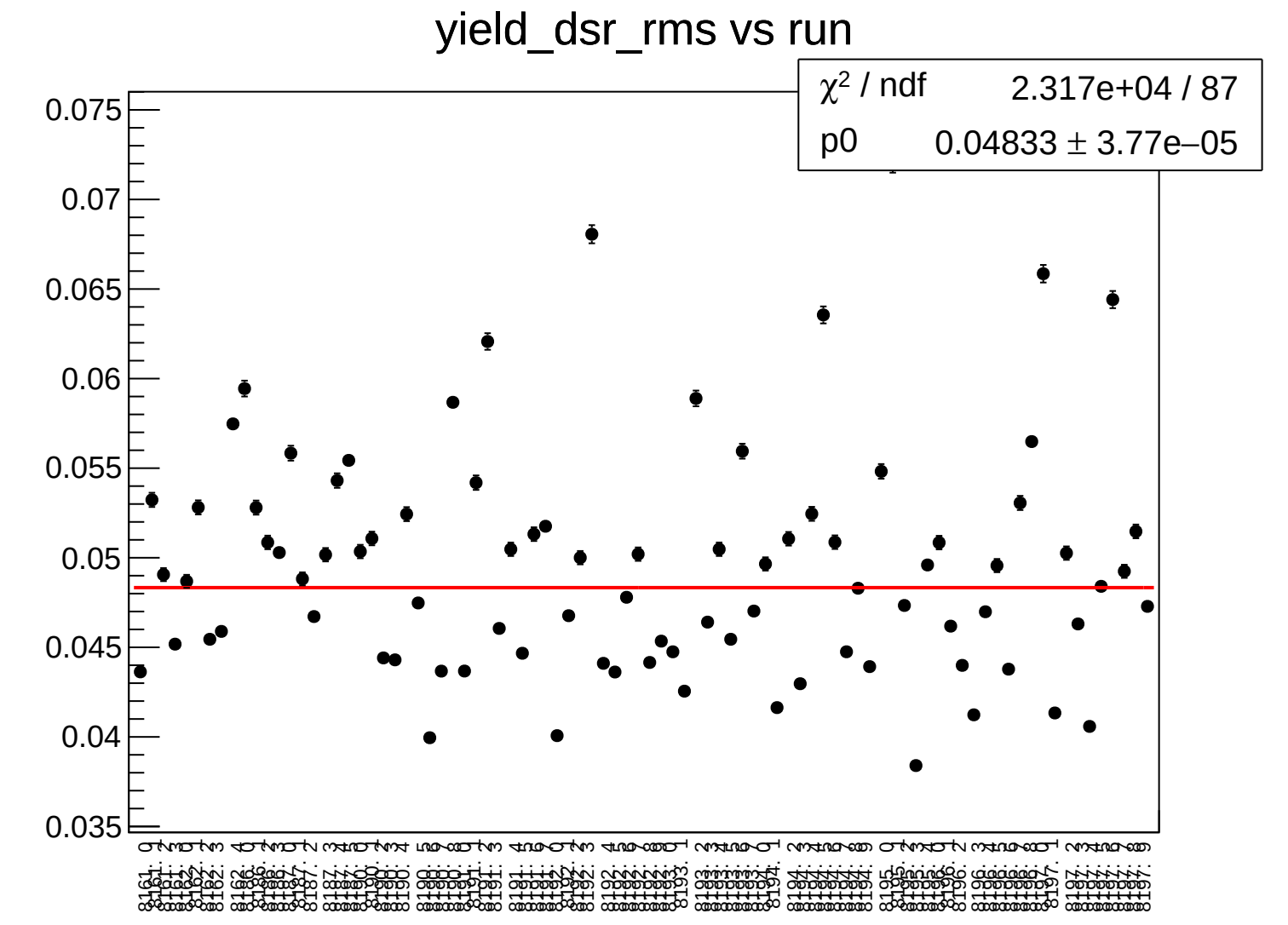

yield_dsl_mean vs run
χ² / ndf 1.221e+06 / 87
p0 −29.54 ± 6.748e−05
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
−29.7
−29.75
pull
Entries 88
Mean −470.6
Std Dev 0
200
100
0
−100
−200
−300
−400

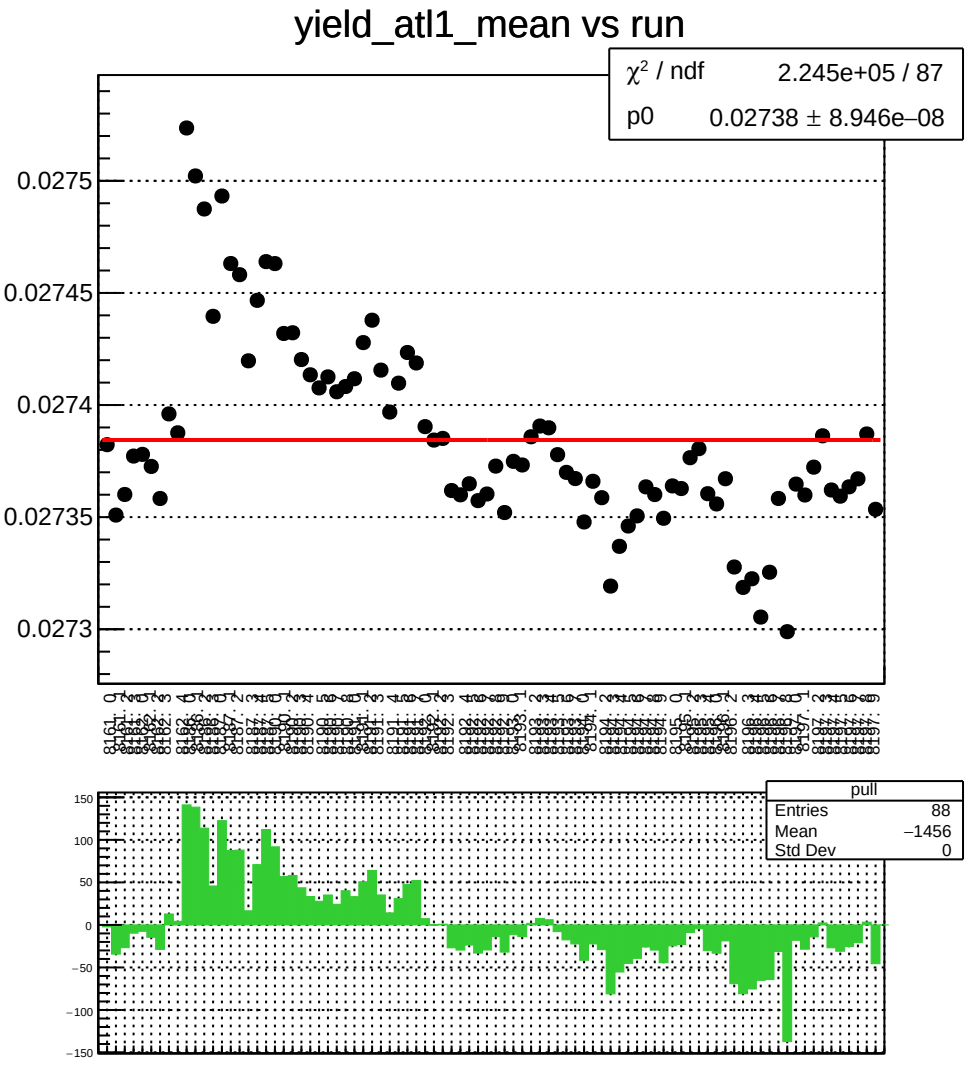

pull1D
Entries 88
Mean −1.71
Std Dev 4.061
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

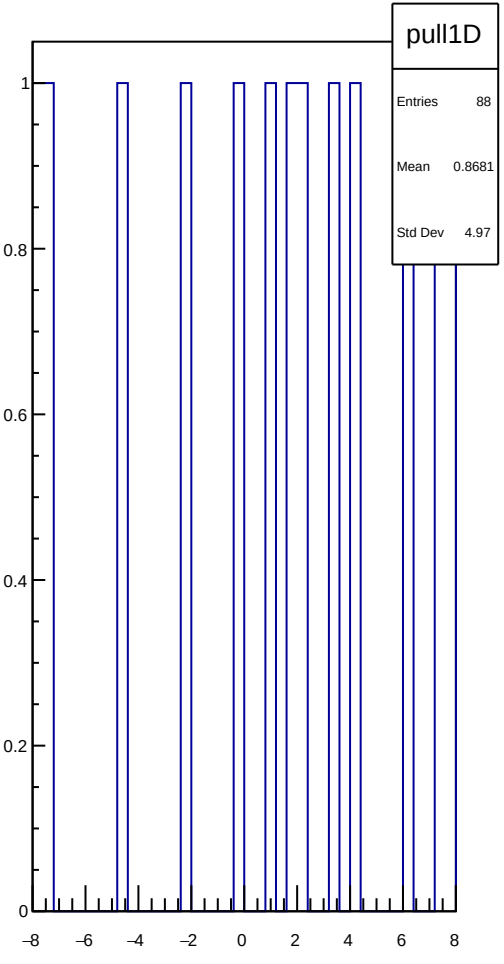

yield_dsl_rms vs run
χ² / ndf 5.557e+04 / 87
p0 0.06057 ± 4.771e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

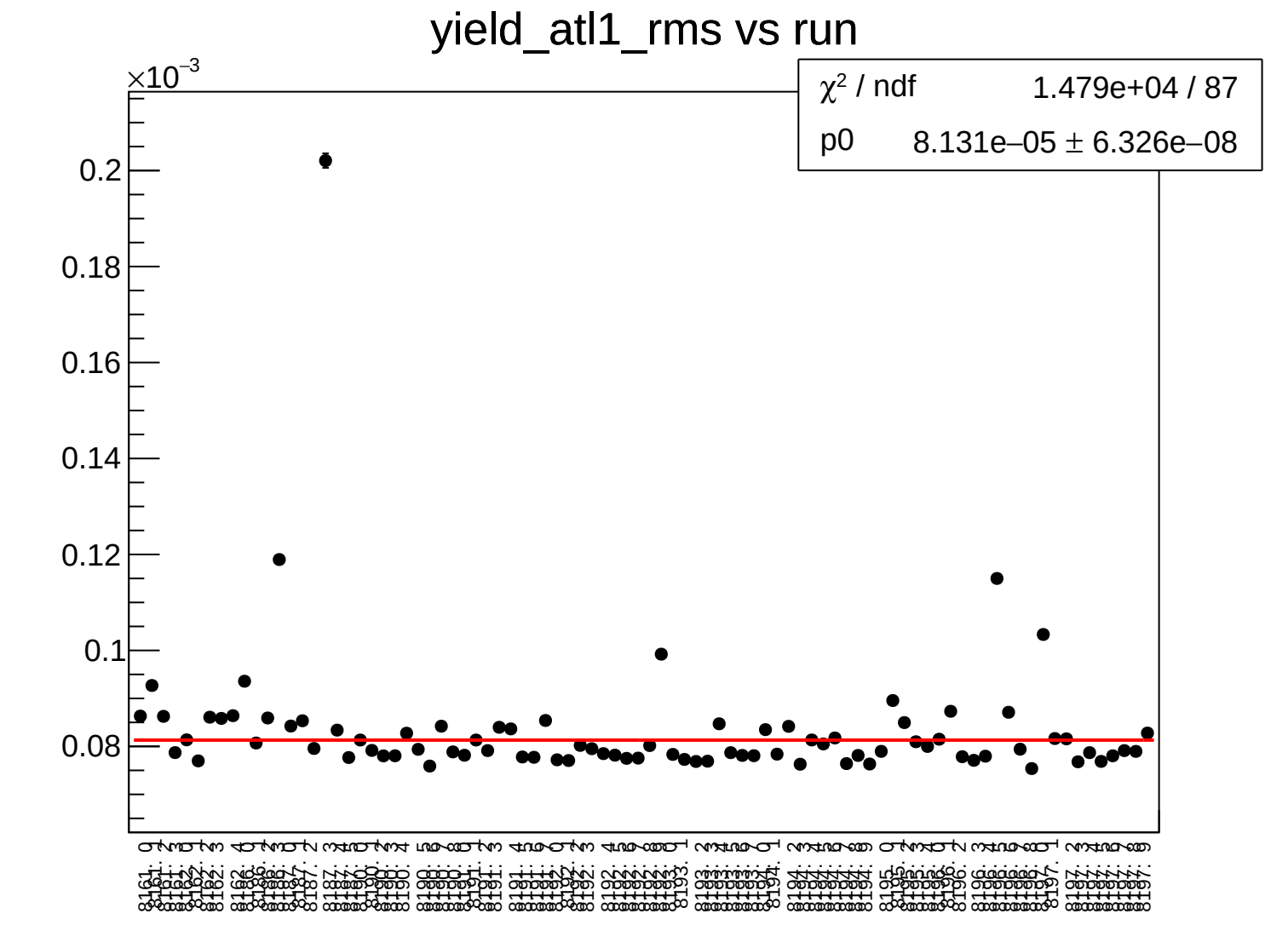

yield_dsr_mean vs run
χ² / ndf 1.006e+06 / 87
p0 −25.5 ± 5.331e−05
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
pull
Entries 88
Mean 1176
Std Dev 0
200
100
0
−100
−200

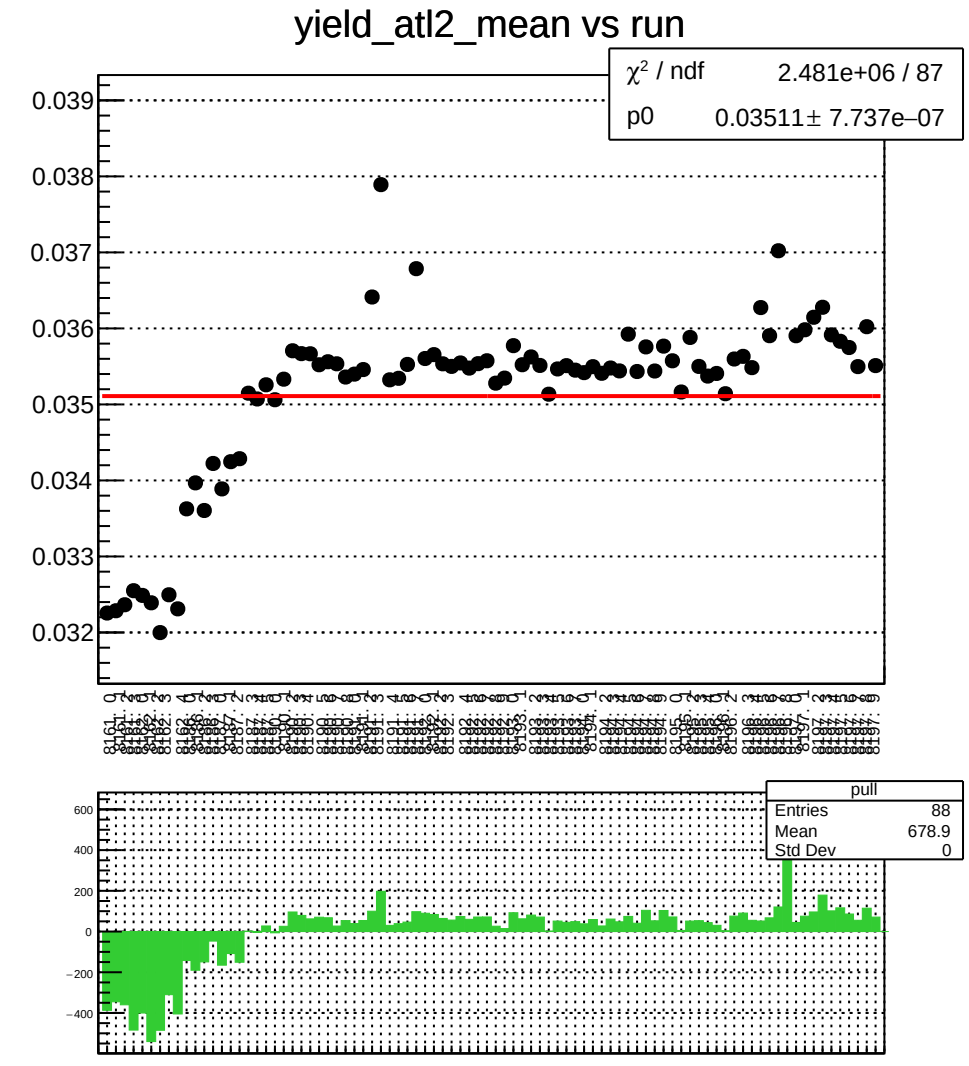

pull1D
Entries 88
Mean 1.052
Std Dev 2.291
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

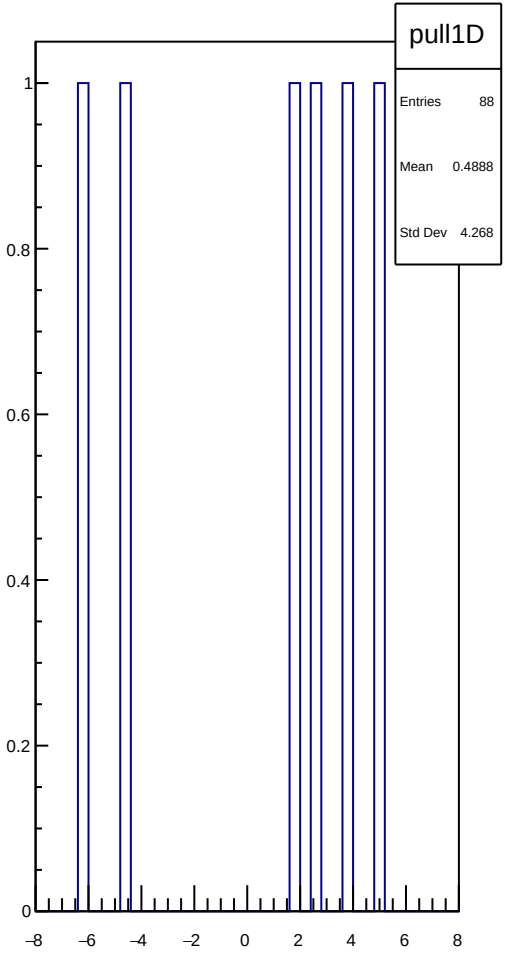

yield_dsr_rms vs run
χ² / ndf 2.317e+04 / 87
p0 0.04833 ± 3.77e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

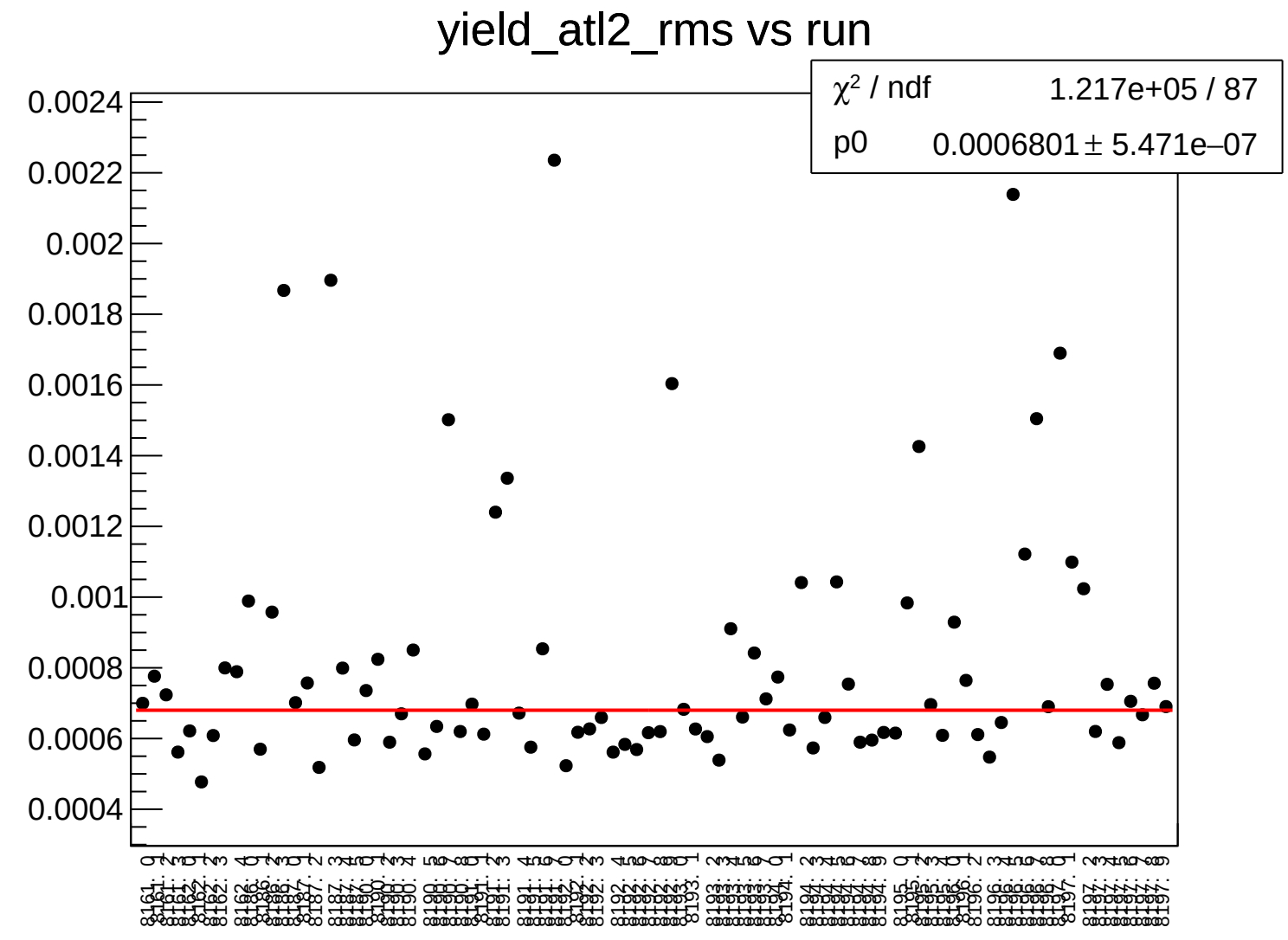

yield_atl1_mean vs run
χ² / ndf 2.245e+05 / 87
p0 0.02738 ± 8.946e−08
0.0275
0.02745
0.0274
0.02735
0.0273
pull
Entries 88
Mean −1456
Std Dev 0
150
100
50
0
−50
−100
−150

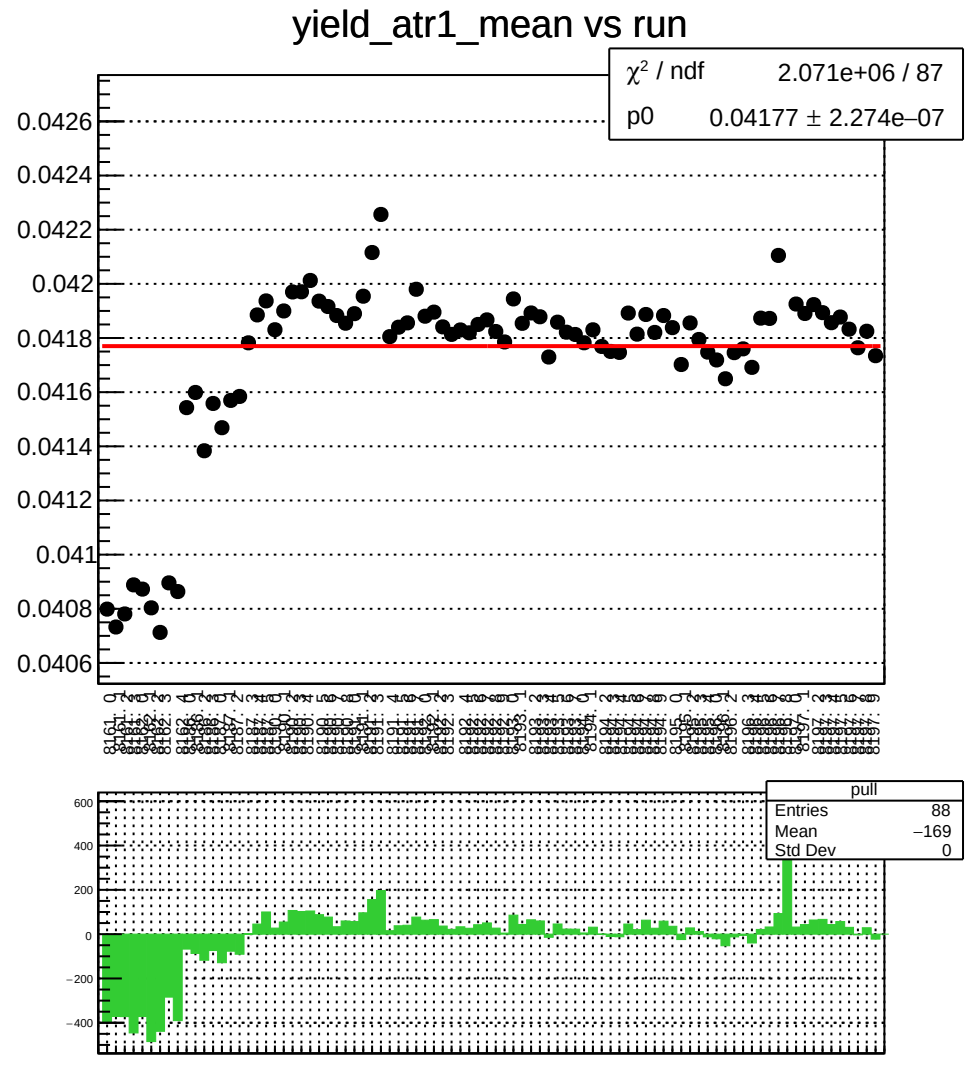

pull1D
Entries 88
Mean 0.8681
Std Dev 4.97
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

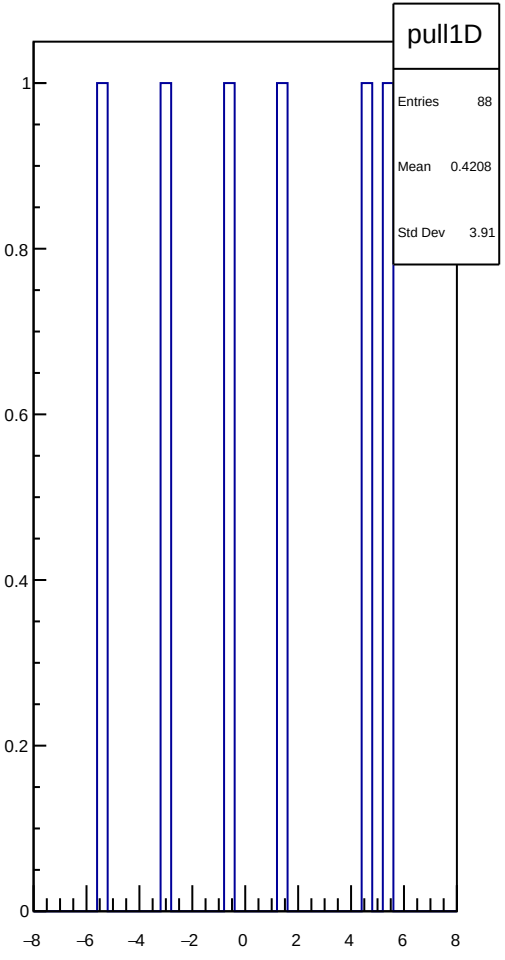

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.479e+04 / 87
p0 8.131e−05 ± 6.326e−08
0.2
0.18
0.16
0.14
0.12
0.1
0.08

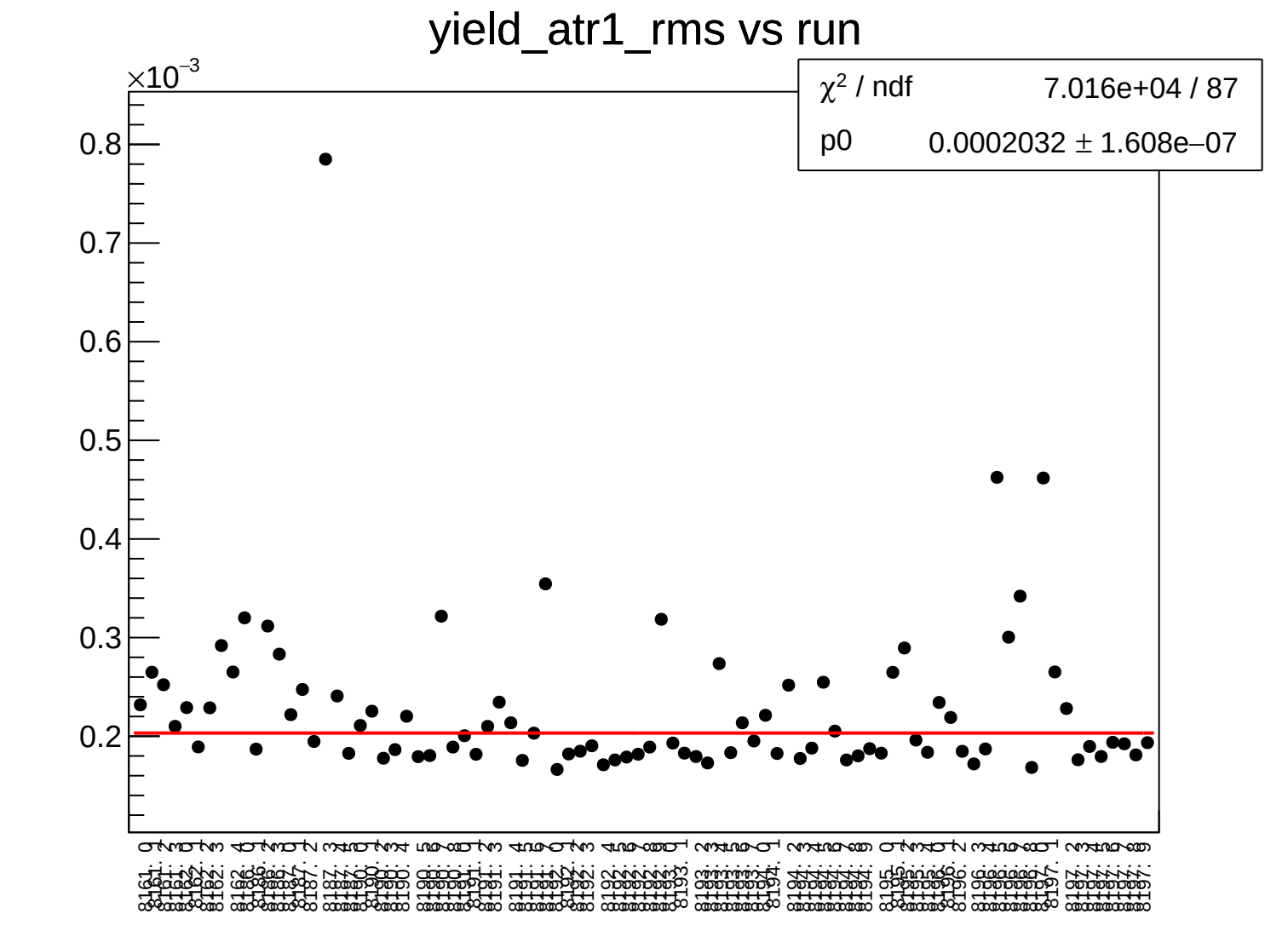

yield_atl2_mean vs run
χ² / ndf 2.481e+06 / 87
p0 0.03511± 7.737e–07
0.039
0.038
0.037
0.036
0.035
0.034
0.033
0.032
pull
Entries 88
Mean 678.9
Std Dev 0
600
400
200
0
–200
–400

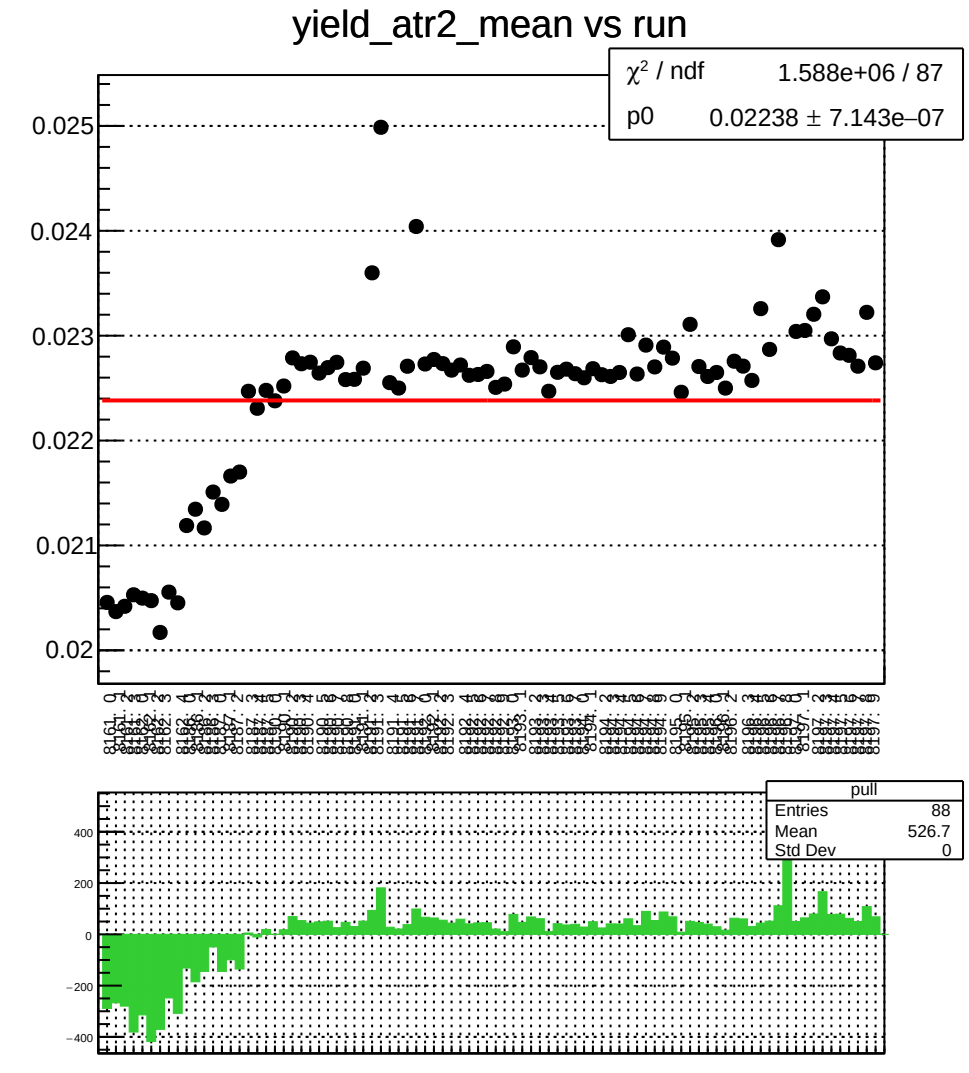

pull1D
Entries 88
Mean 0.4888
Std Dev 4.268
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

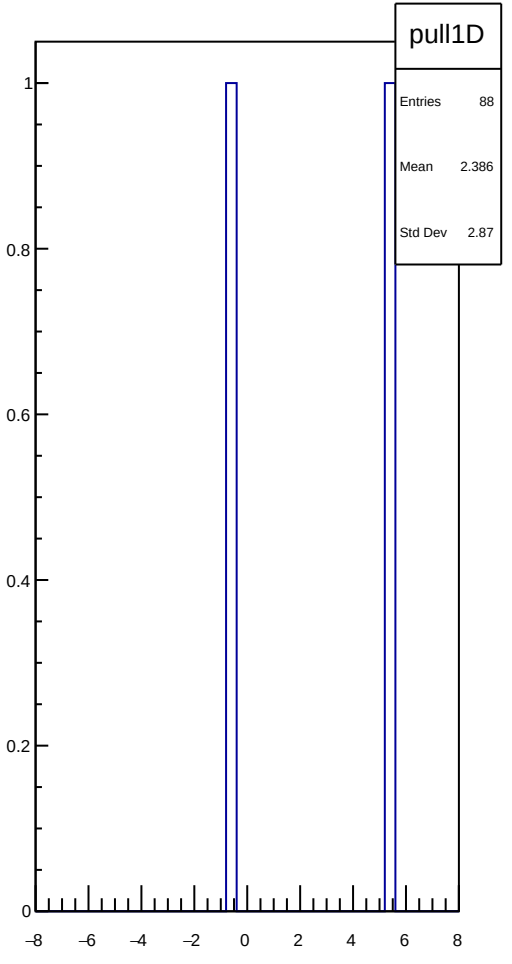

yield_atl2_rms vs run
χ² / ndf 1.217e+05 / 87
p0 0.0006801 ± 5.471e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

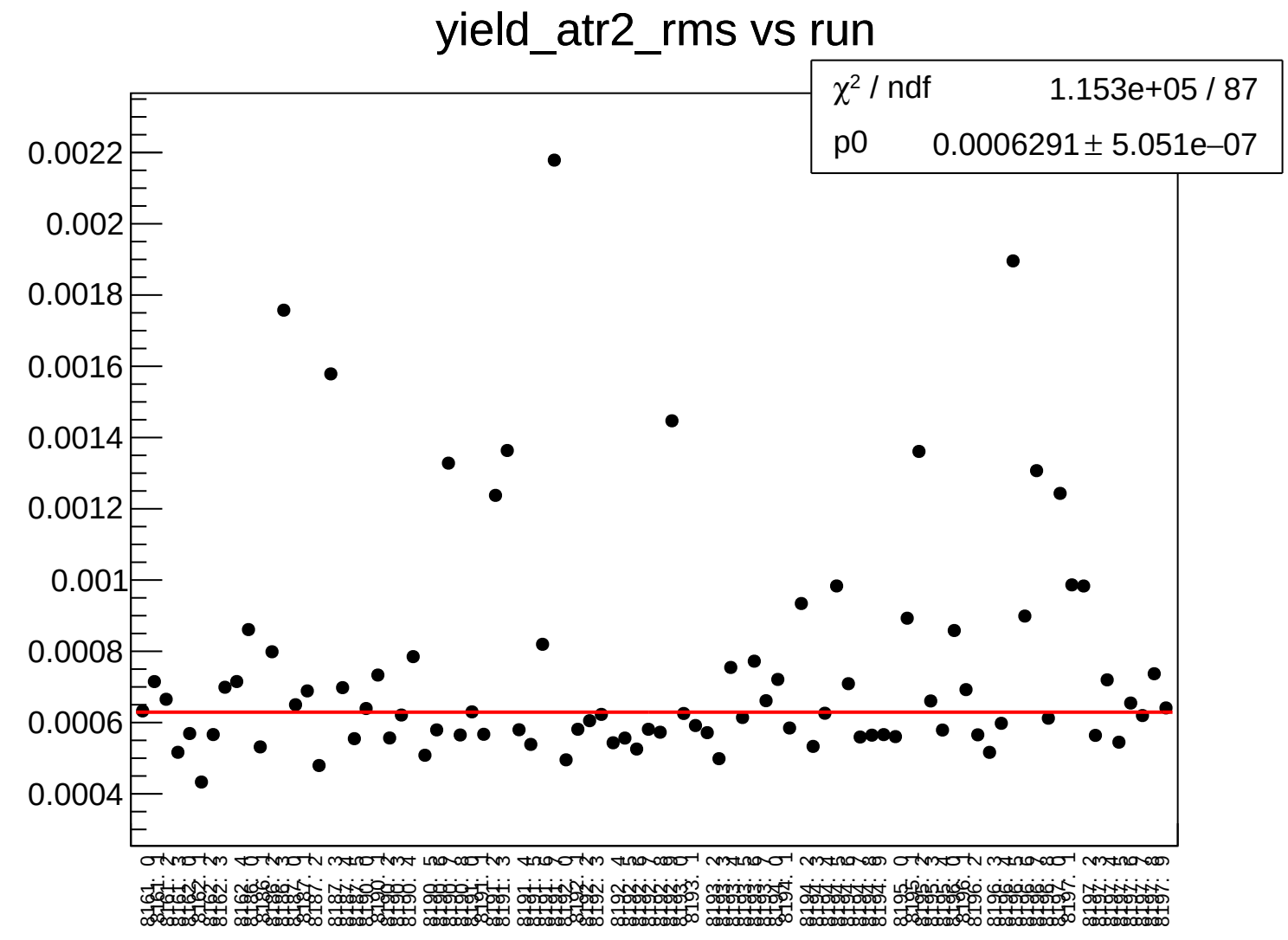

yield_atr1_mean vs run
χ² / ndf 2.071e+06 / 87
p0 0.04177 ± 2.274e−07
0.0426
0.0424
0.0422
0.042
0.0418
0.0416
0.0414
0.0412
0.041
0.0408
0.0406
pull
Entries 88
Mean −169
Std Dev 0
600
400
200
0
−200
−400

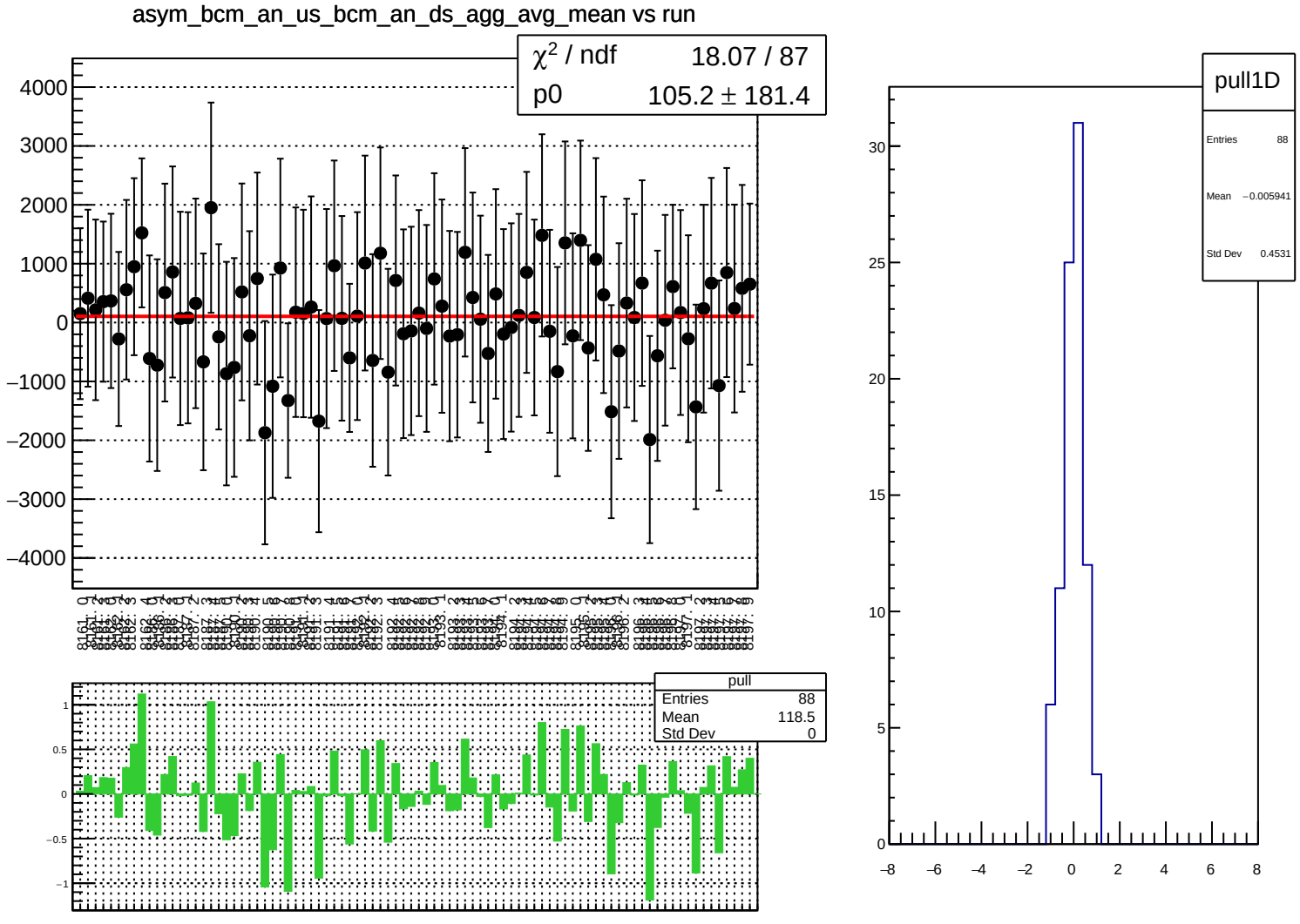

pull1D
Entries 88
Mean 0.4208
Std Dev 3.91
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

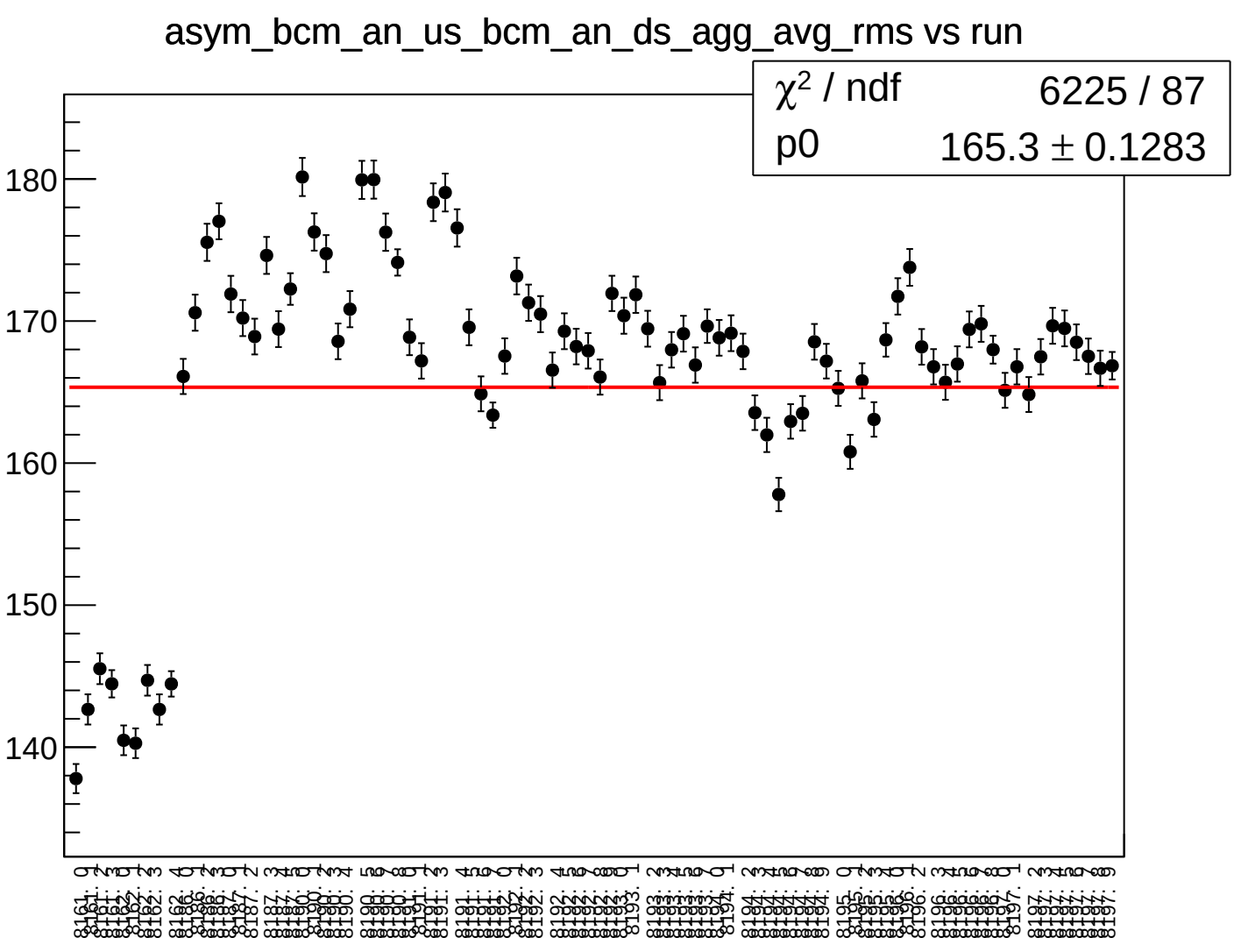

yield_atr1_rms vs run
×10⁻³
χ² / ndf 7.016e+04 / 87
p0 0.0002032 ± 1.608e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

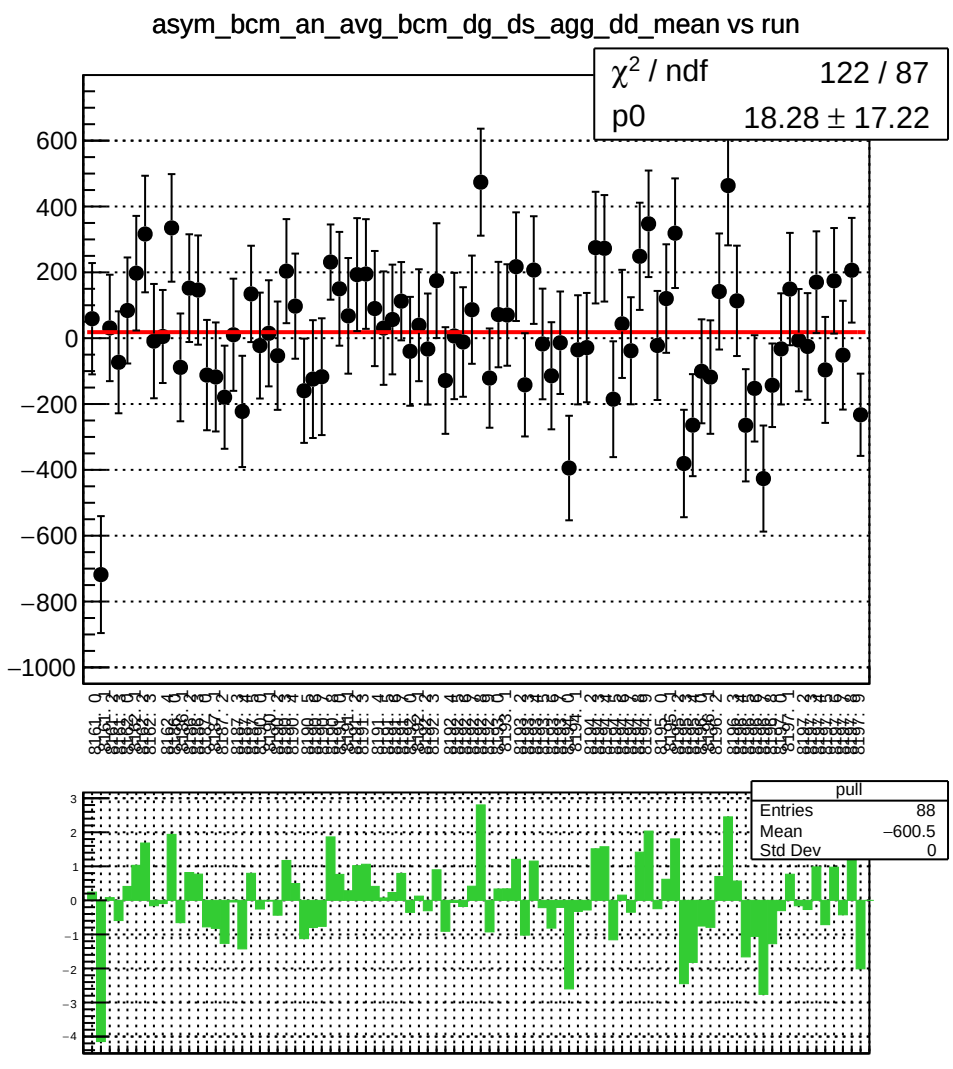

yield_atr2_mean vs run
χ² / ndf 1.588e+06 / 87
p0 0.02238 ± 7.143e–07
0.025
0.024
0.023
0.022
0.021
0.02
pull
Entries 88
Mean 526.7
Std Dev 0
400
200
0
–200
–400

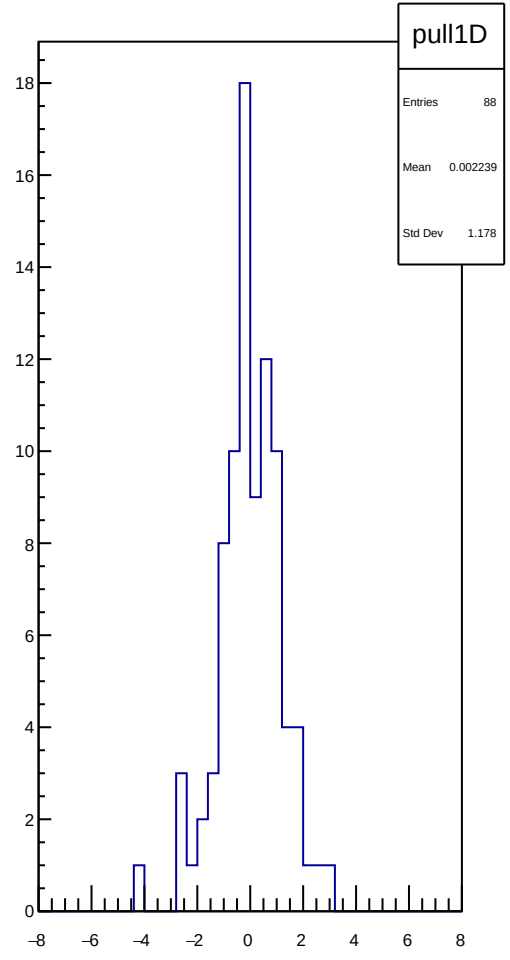

pull1D
Entries 88
Mean 2.386
Std Dev 2.87
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

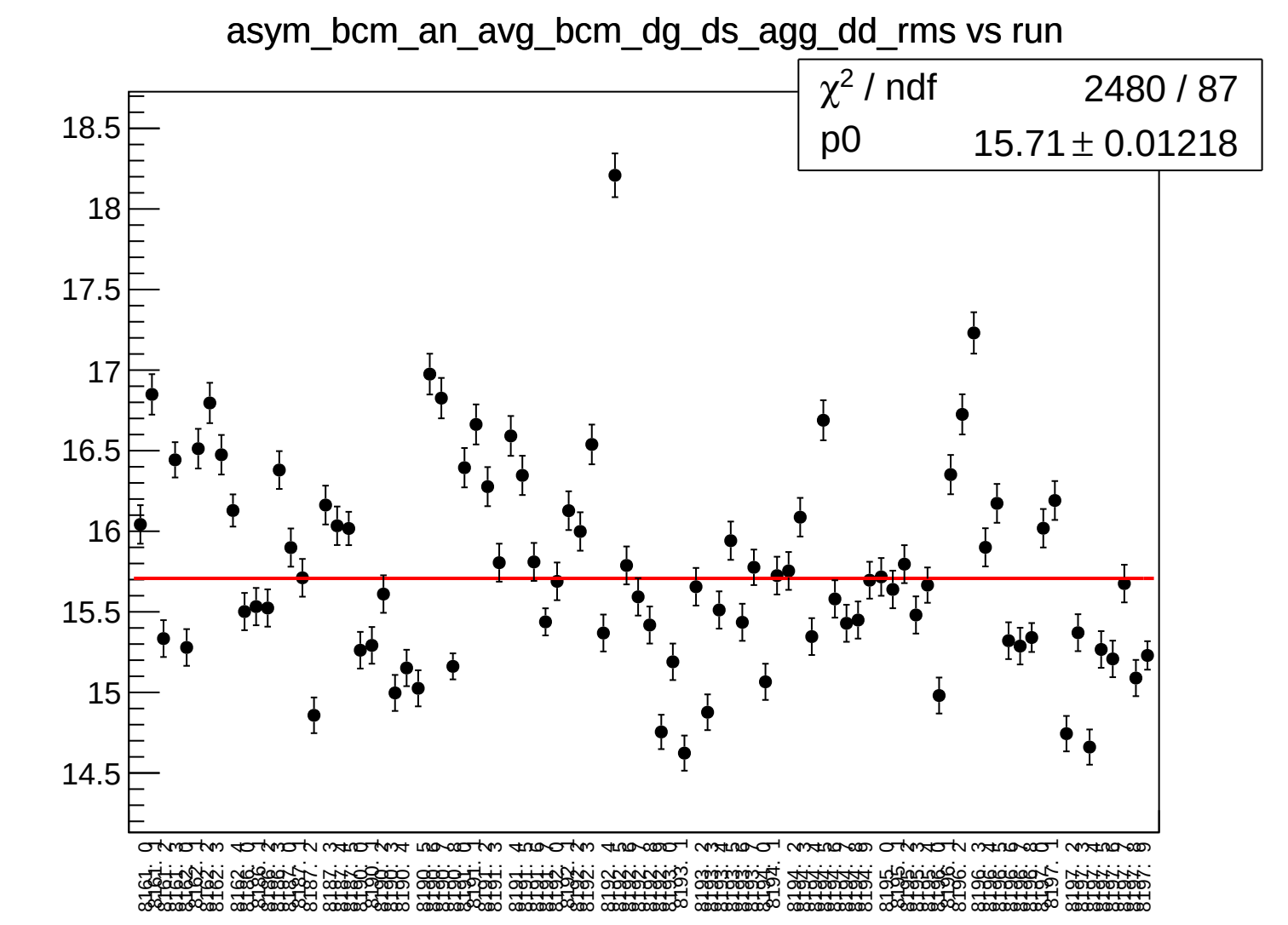

yield_atr2_rms vs run
χ² / ndf 1.153e+05 / 87
p0 0.0006291 ± 5.051e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

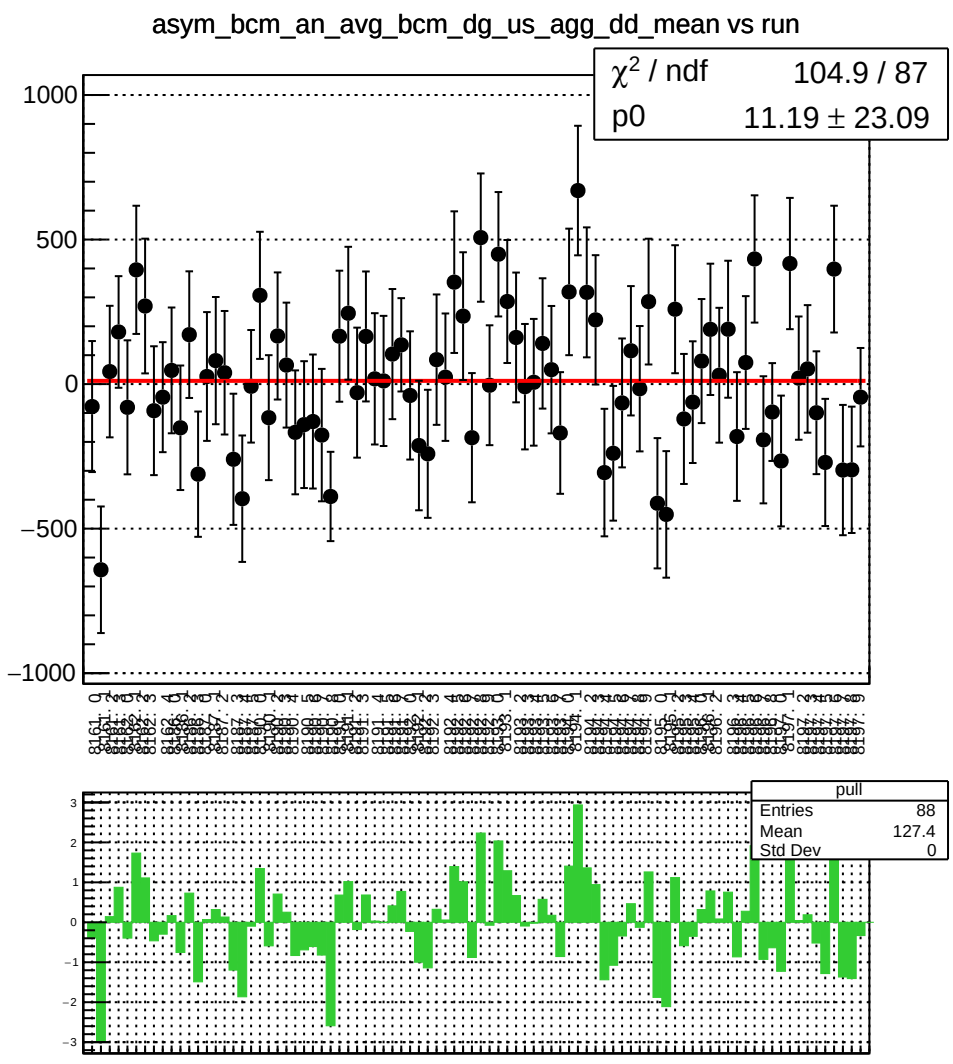

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.07 / 87
p0 105.2 ± 181.4
pull
Entries 88
Mean 118.5
Std Dev 0
pull1D
Entries 88
Mean −0.005941
Std Dev 0.4531

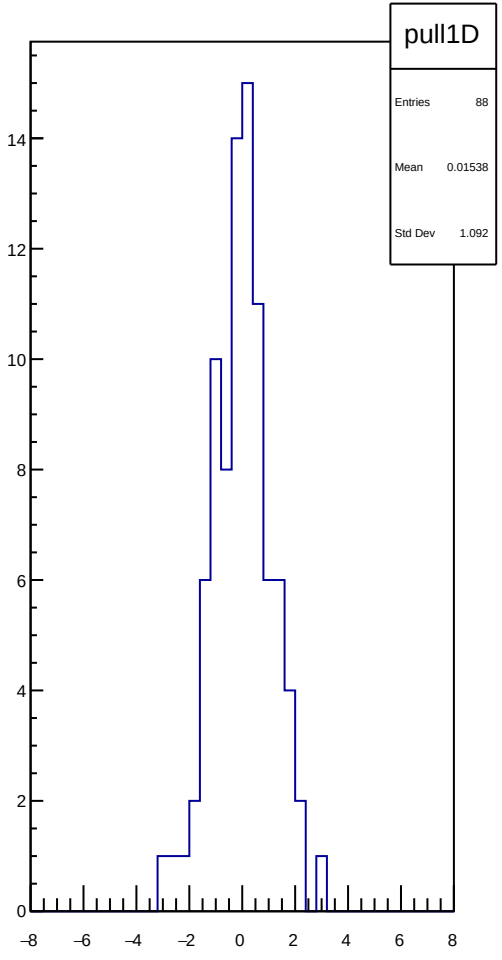

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6225 / 87
p0 165.3 ± 0.1283
180
170
160
150
140

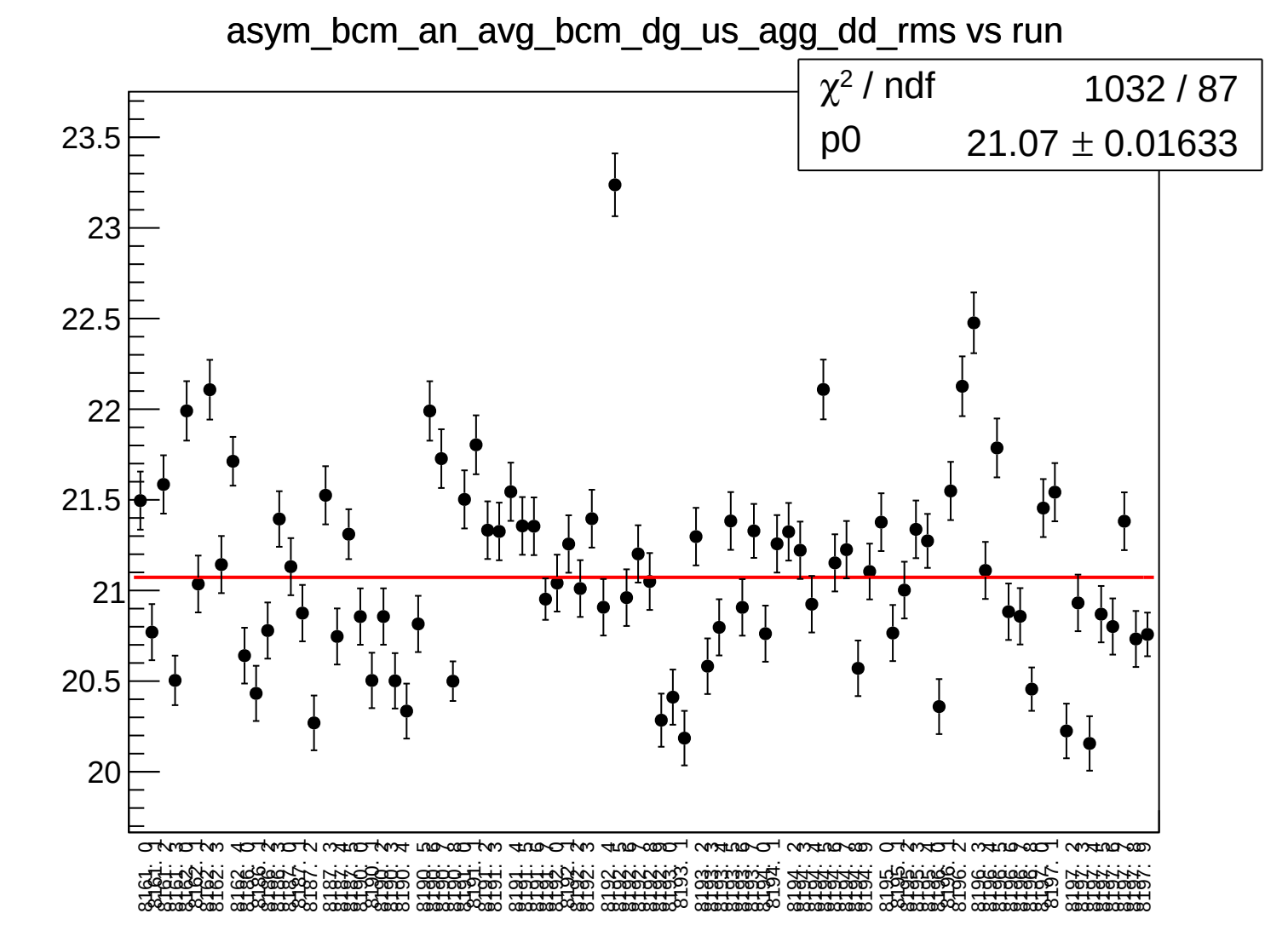

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 122 / 87
p0 18.28 ± 17.22
pull
Entries 88
Mean −600.5
Std Dev 0

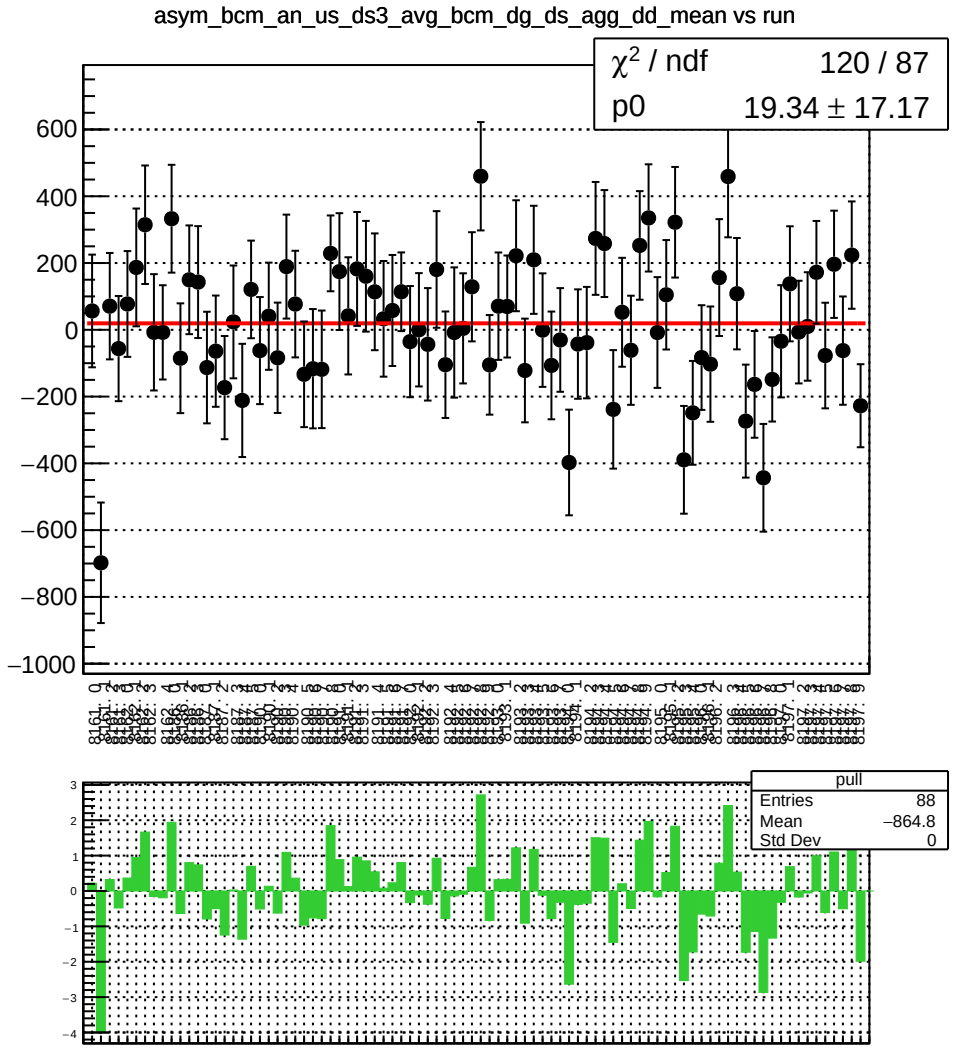

pull1D
Entries 88
Mean 0.002239
Std Dev 1.178

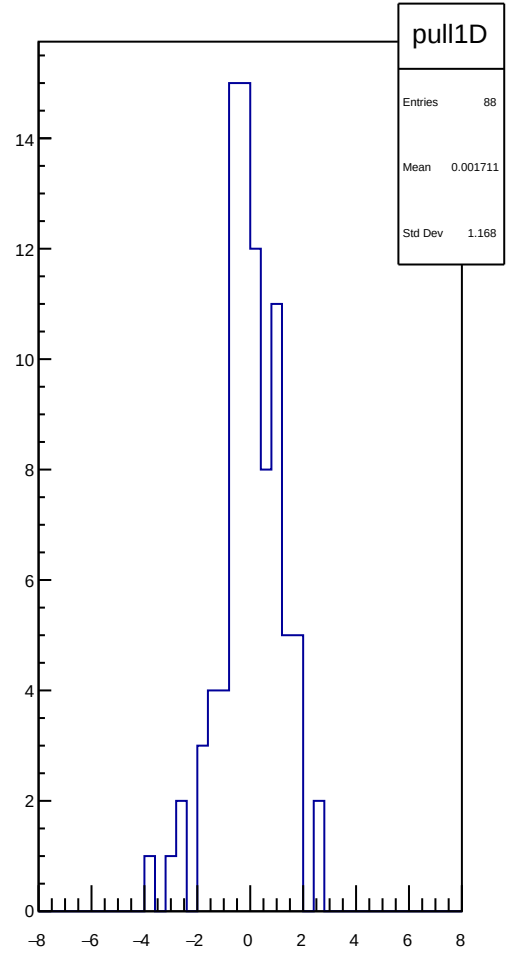

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2480 / 87
p0 15.71 ± 0.01218
18.5
18
17.5
17
16.5
16
15.5
15
14.5

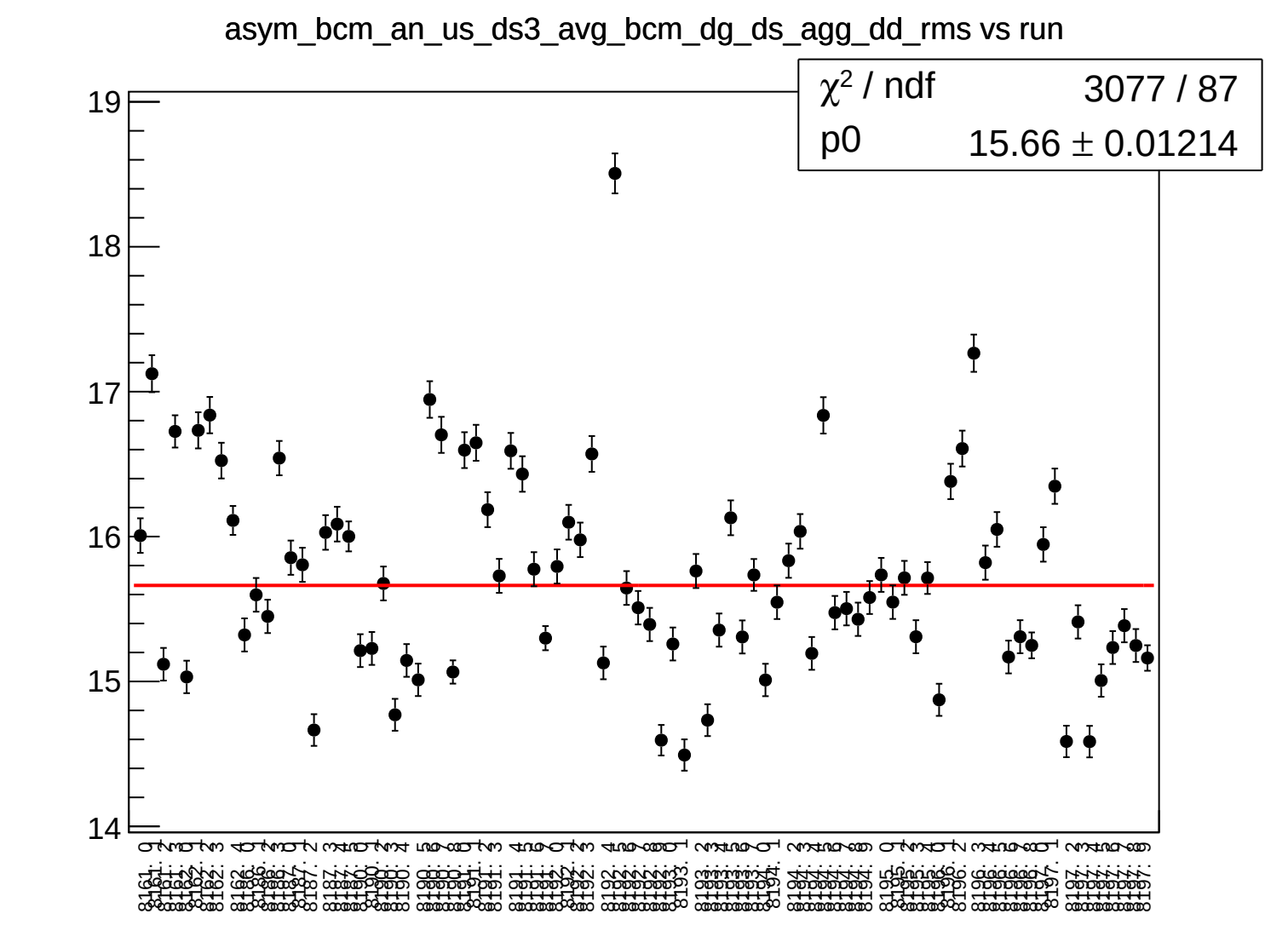

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 104.9 / 87
p0 11.19 ± 23.09
pull
Entries 88
Mean 127.4
Std Dev 0

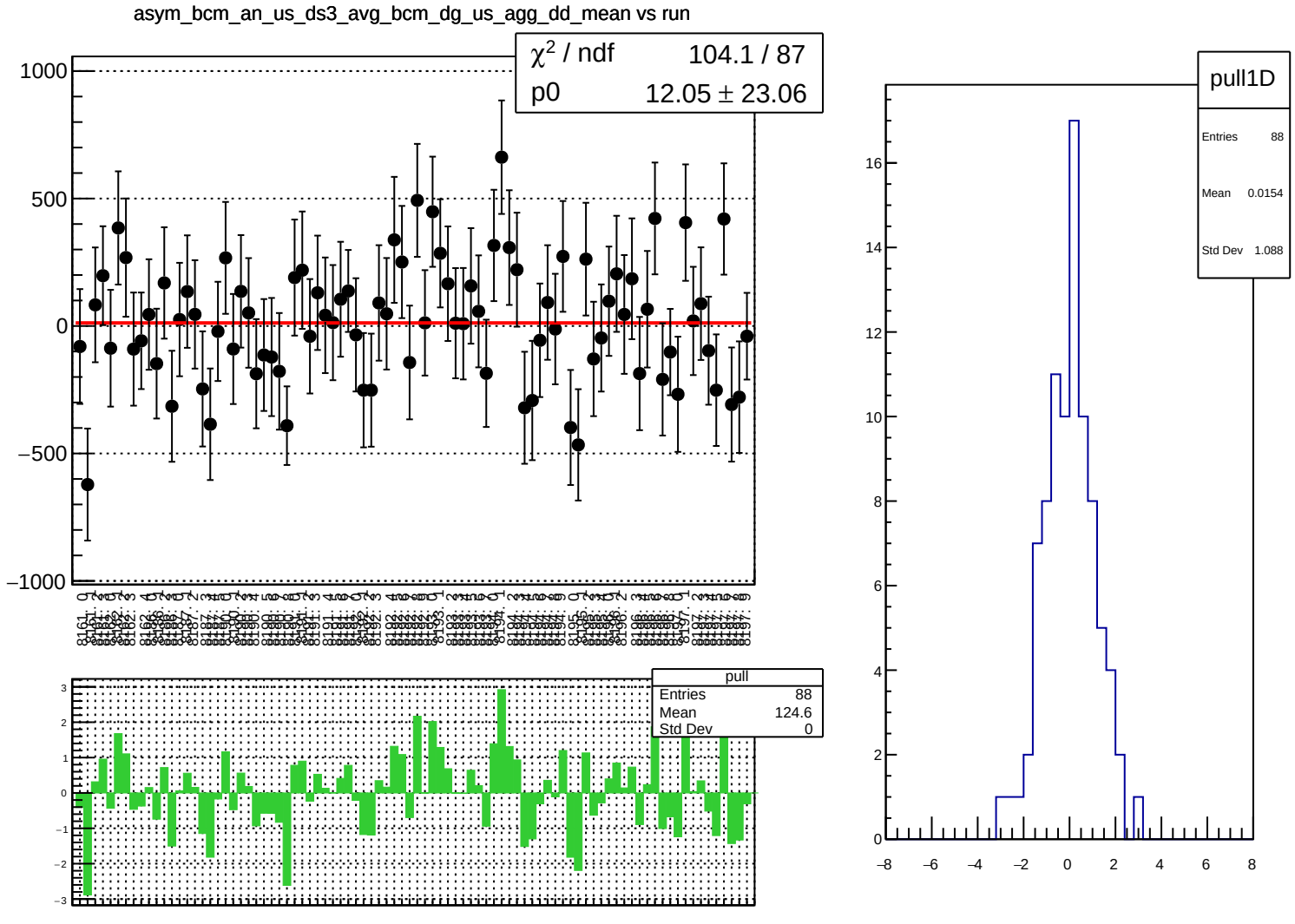

pull1D
Entries 88
Mean 0.01538
Std Dev 1.092

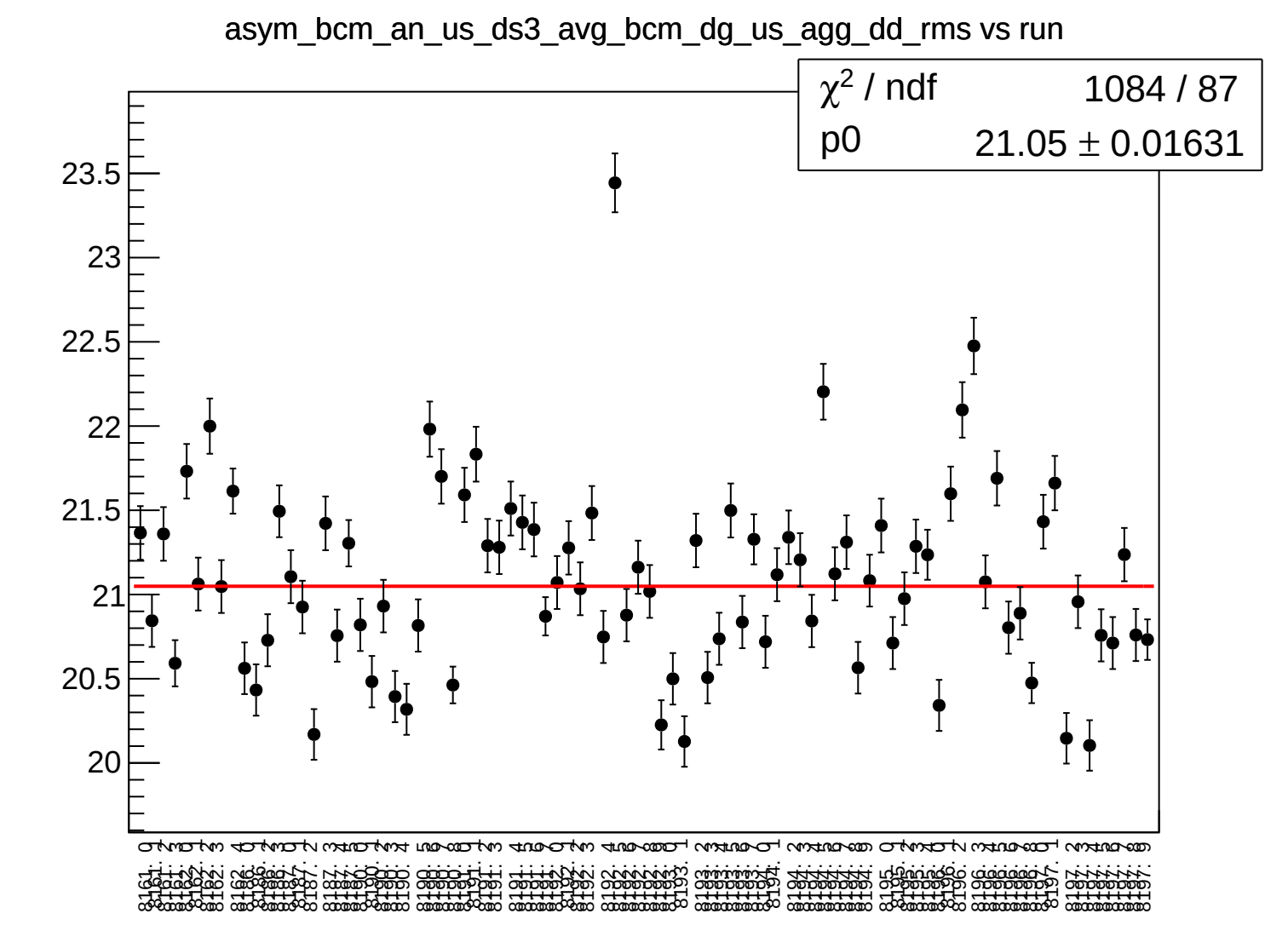

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1032 / 87
p0 21.07 ± 0.01633
23.5
23
22.5
22
21.5
21
20.5
20

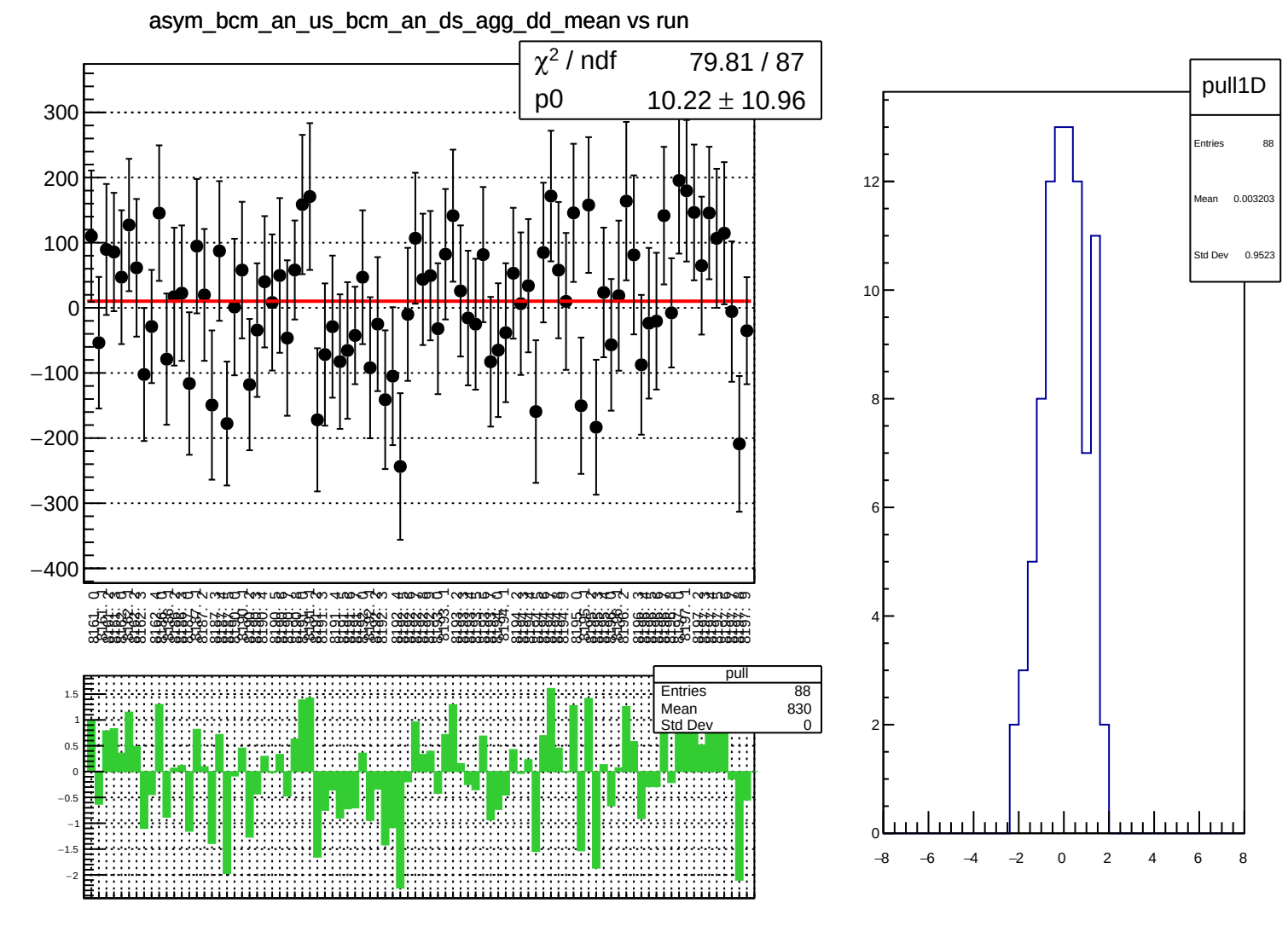

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 120 / 87
p0 19.34 ± 17.17
pull
Entries 88
Mean −864.8
Std Dev 0

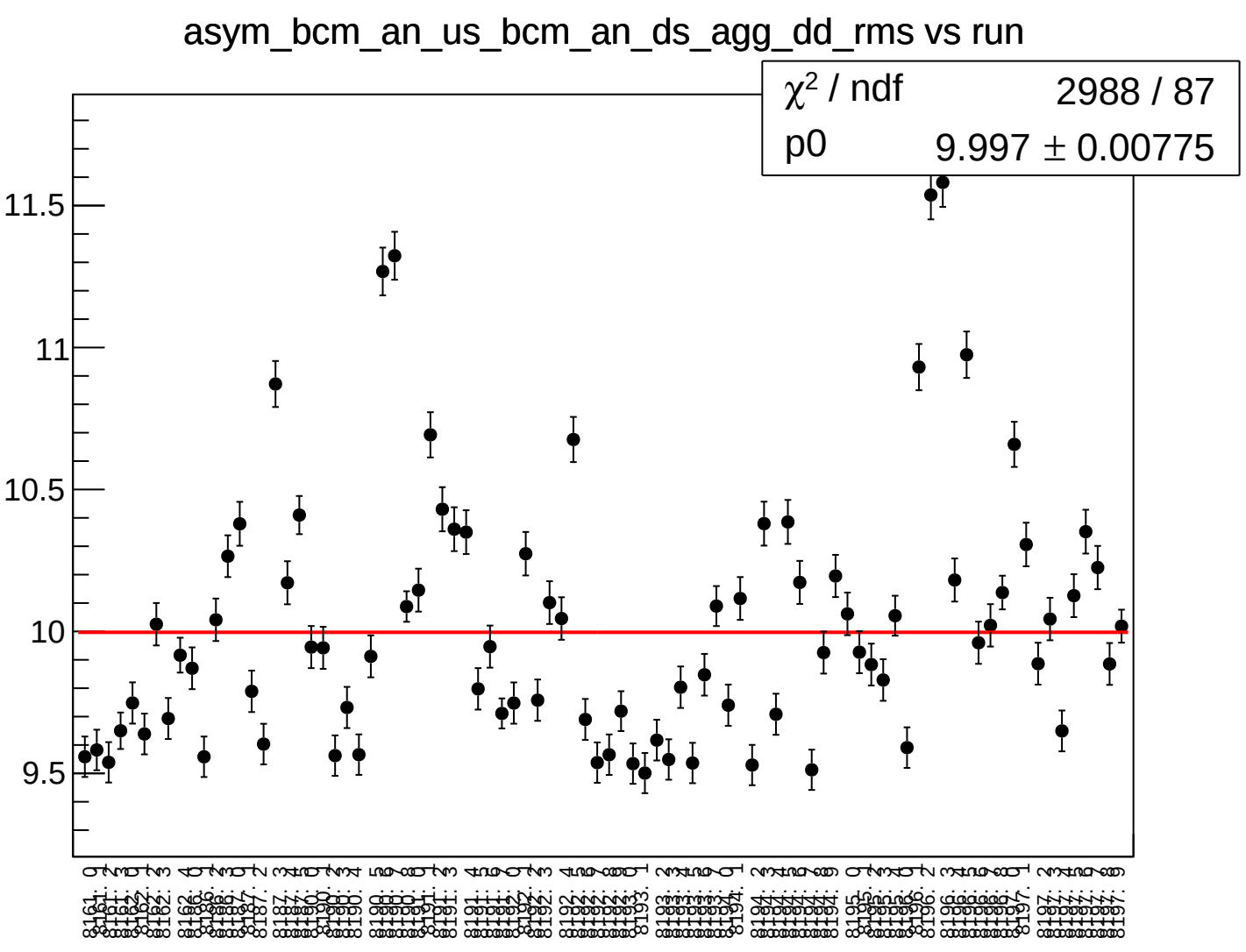

pull1D
Entries 88
Mean 0.001711
Std Dev 1.168

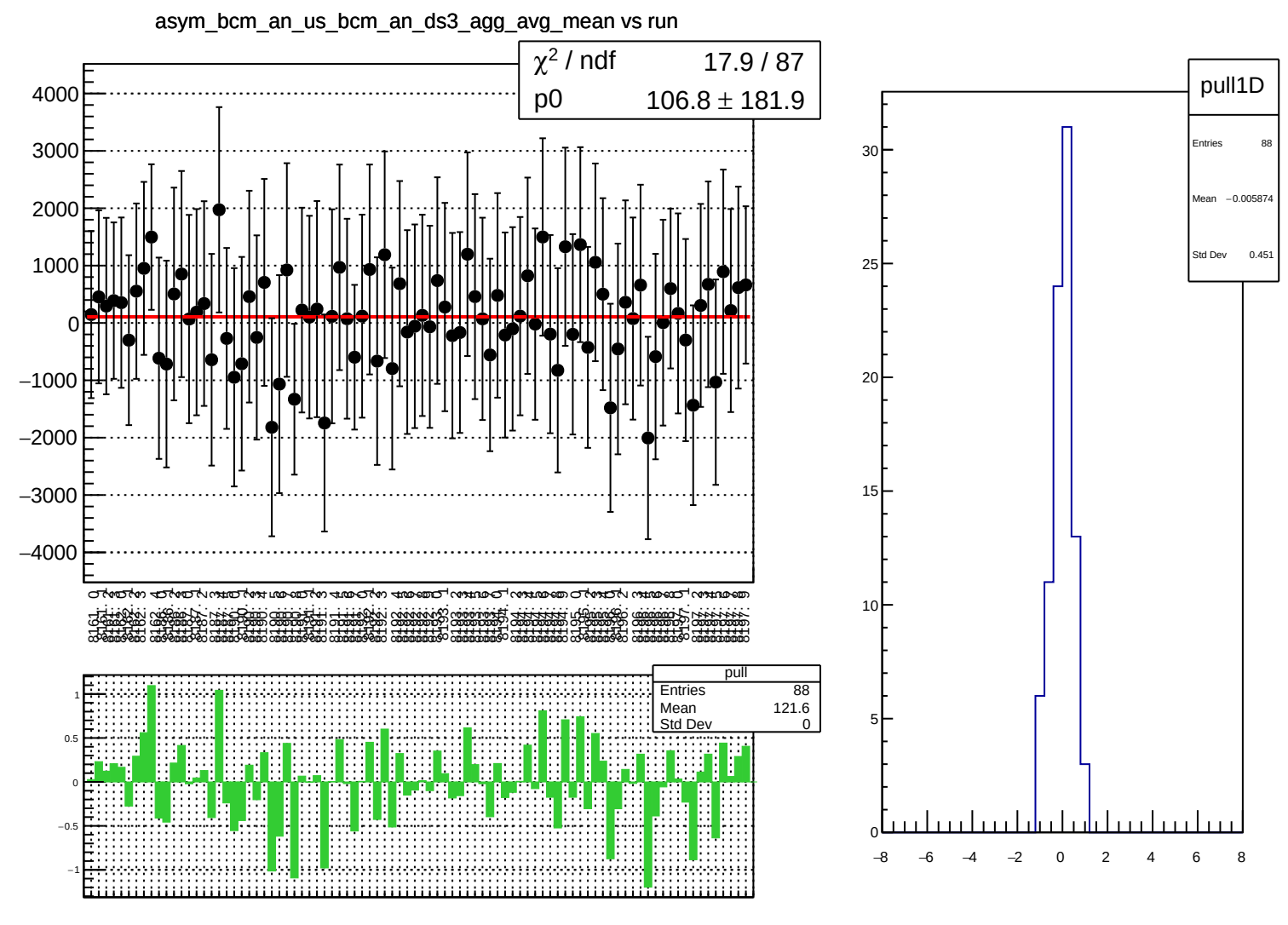

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3077 / 87
p0 15.66 ± 0.01214
19
18
17
16
15
14

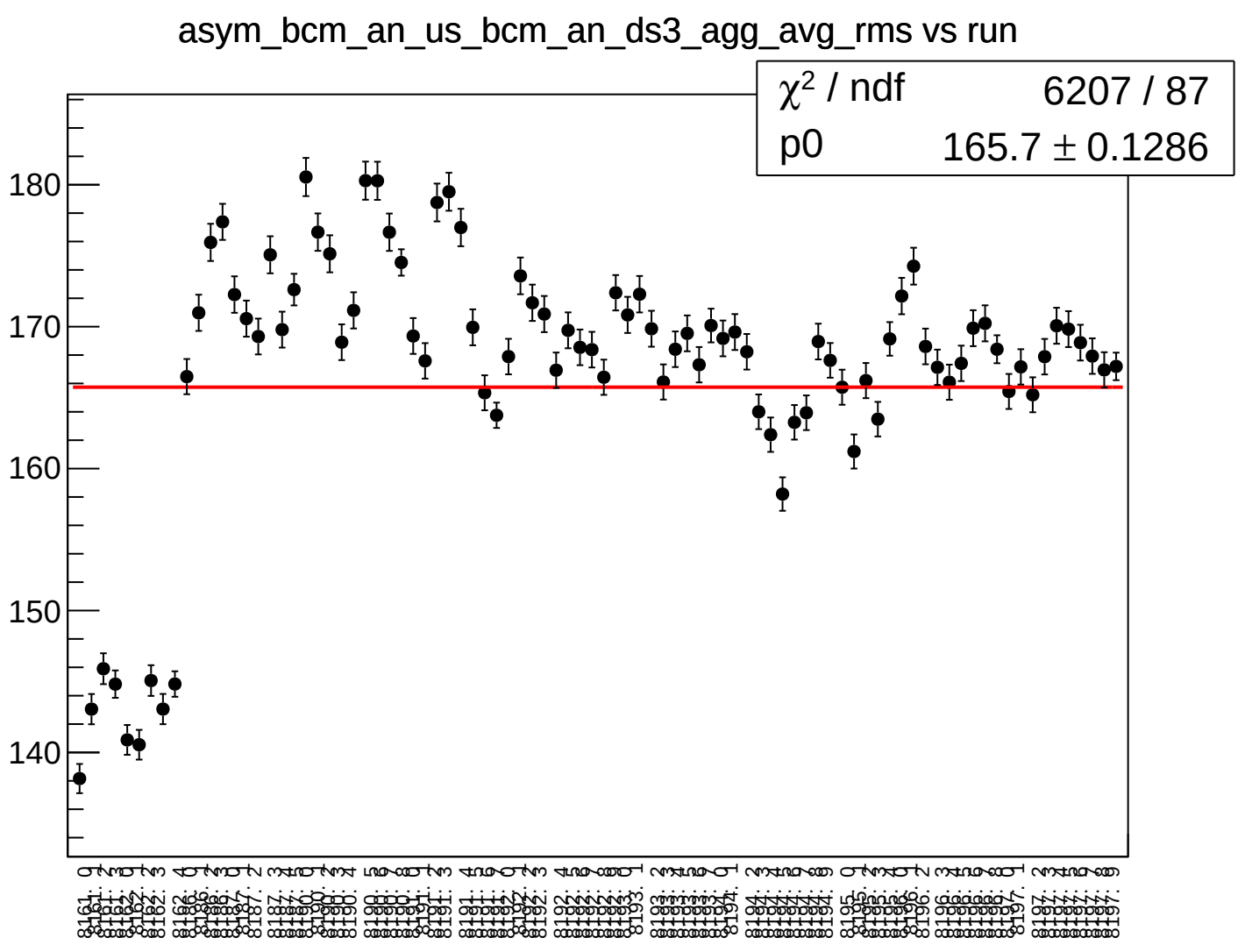

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 104.1 / 87
p0 12.05 ± 23.06
1000
500
0
−500
−1000
pull
Entries 88
Mean 124.6
Std Dev 0
pull1D
Entries 88
Mean 0.0154
Std Dev 1.088

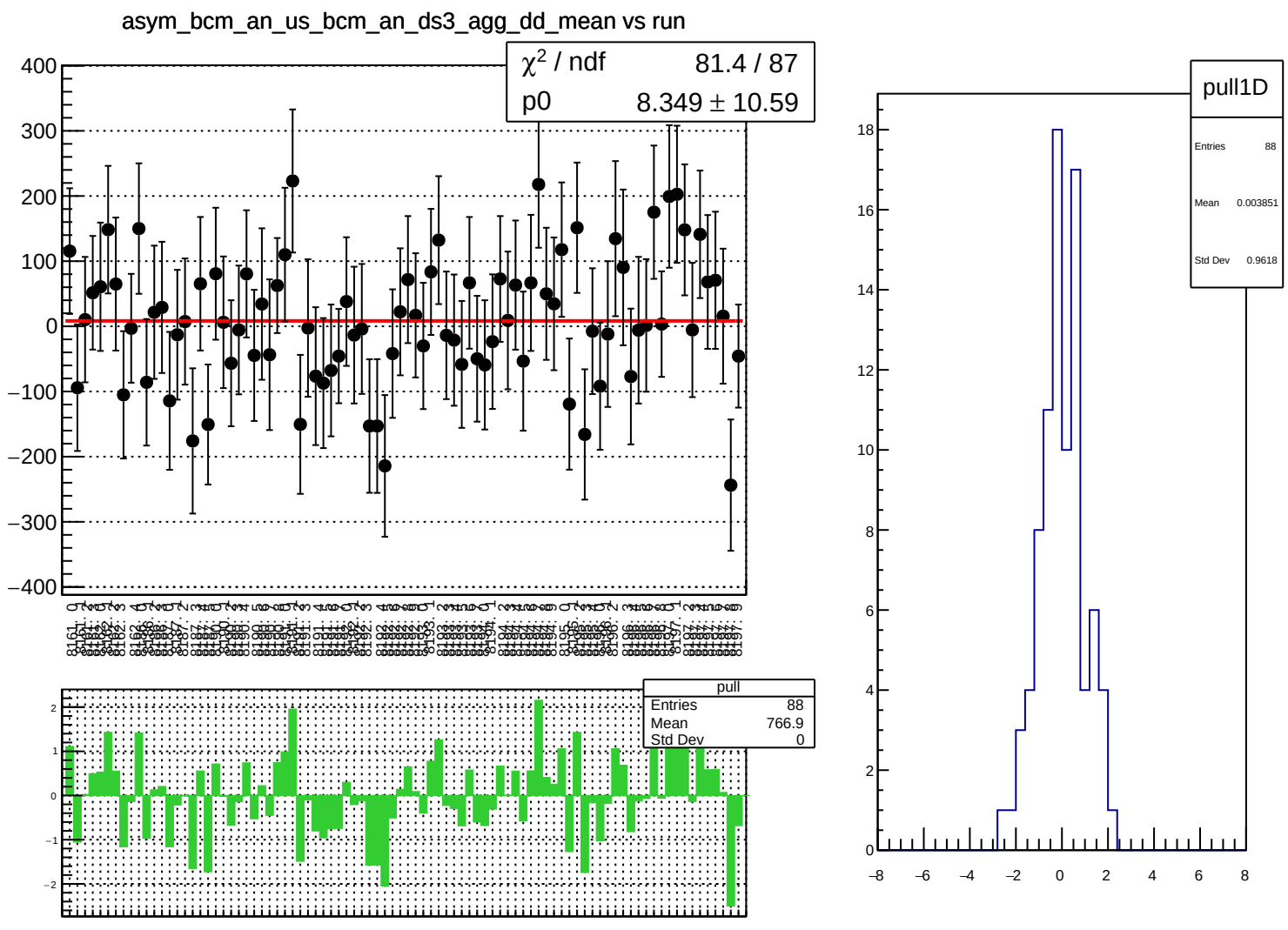

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ2 / ndf 1084 / 87
p0 21.05 ± 0.01631
23.5
23
22.5
22
21.5
21
20.5
20

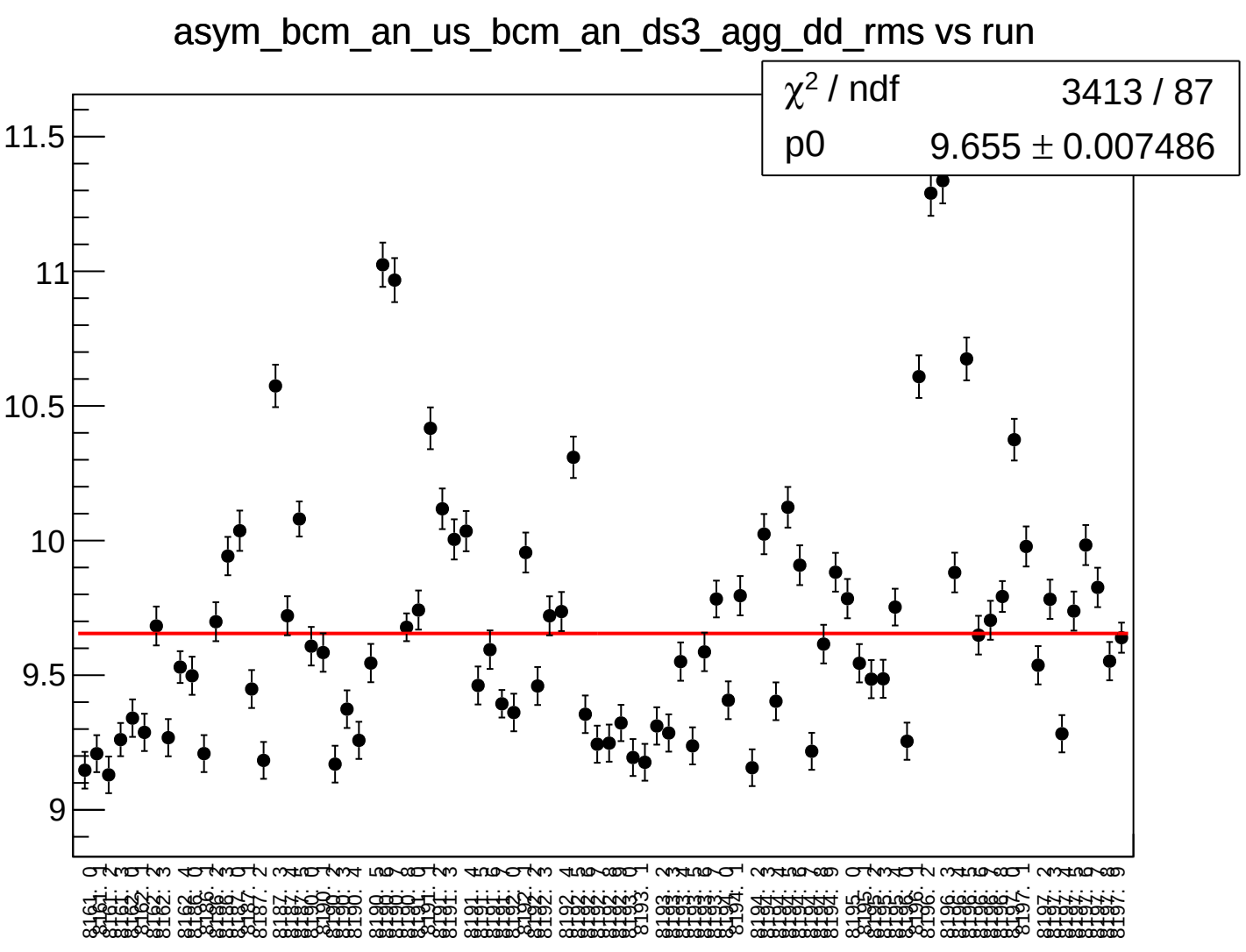

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.81 / 87
p0 10.22 ± 10.96
pull
Entries 88
Mean 830
Std Dev 0
pull1D
Entries 88
Mean 0.003203
Std Dev 0.9523

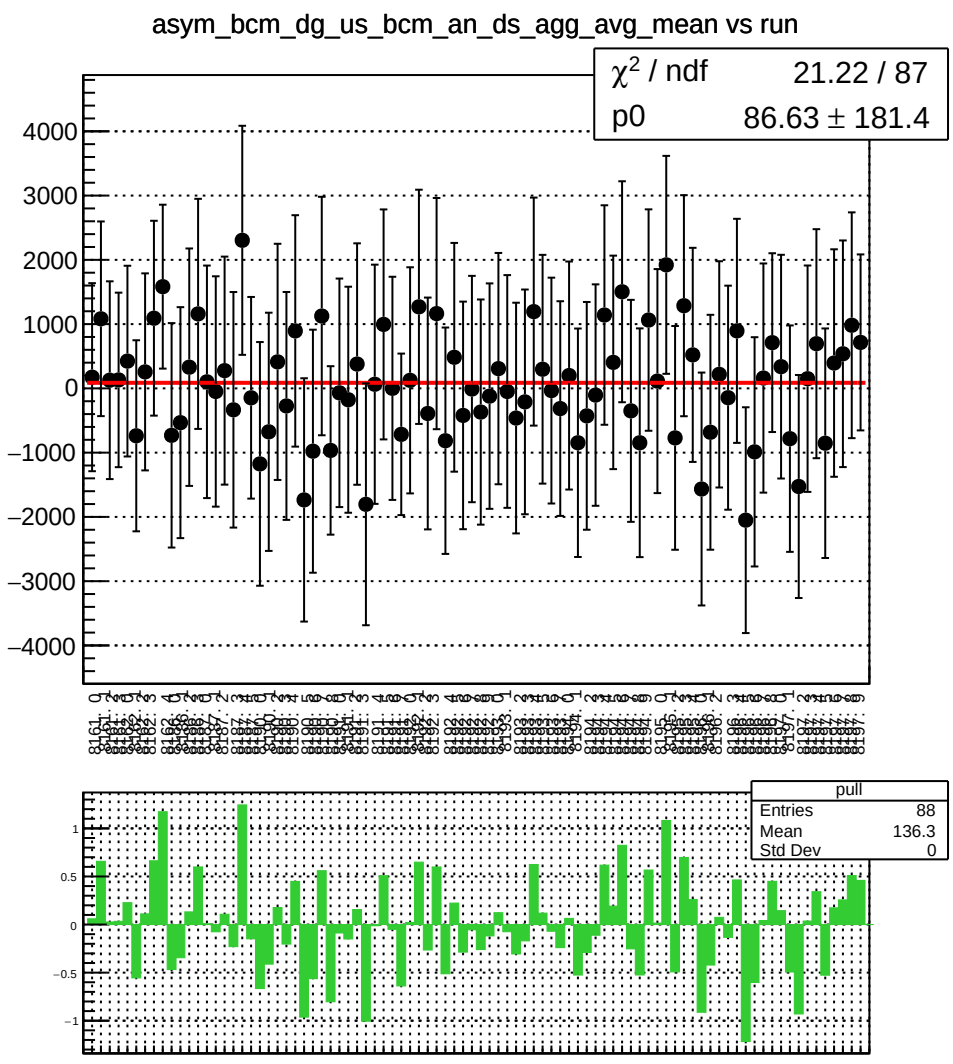

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2988 / 87
p0 9.997 ± 0.00775
11.5
11
10.5
10
9.5

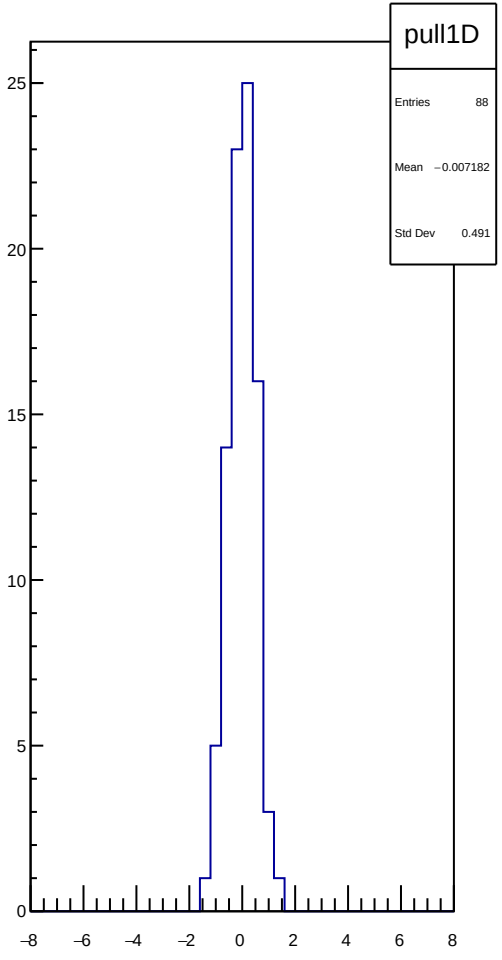

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 17.9 / 87
p0 106.8 ± 181.9
pull
Entries 88
Mean 121.6
Std Dev 0
pull1D
Entries 88
Mean −0.005874
Std Dev 0.451

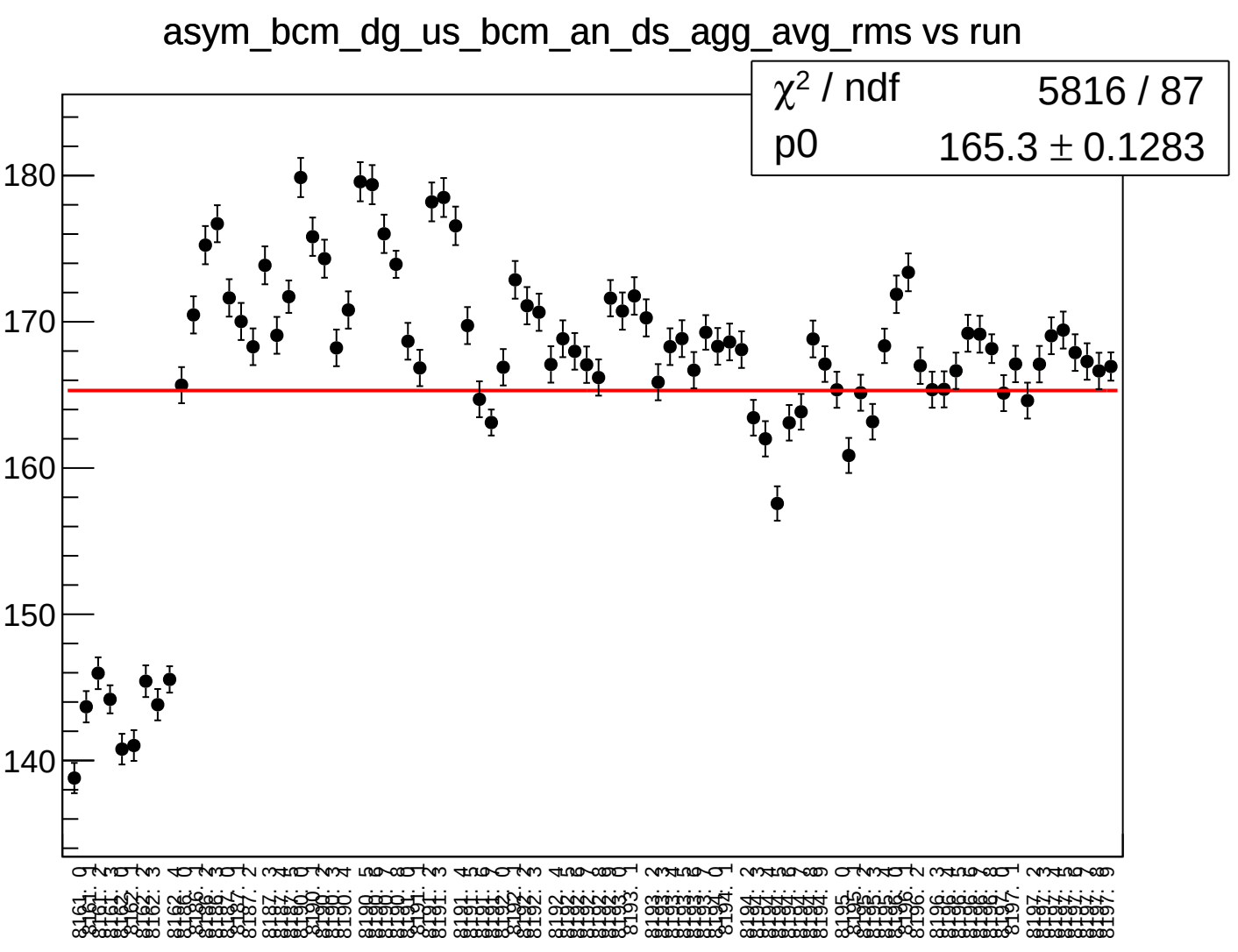

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 6207 / 87
p0 165.7 ± 0.1286
180
170
160
150
140

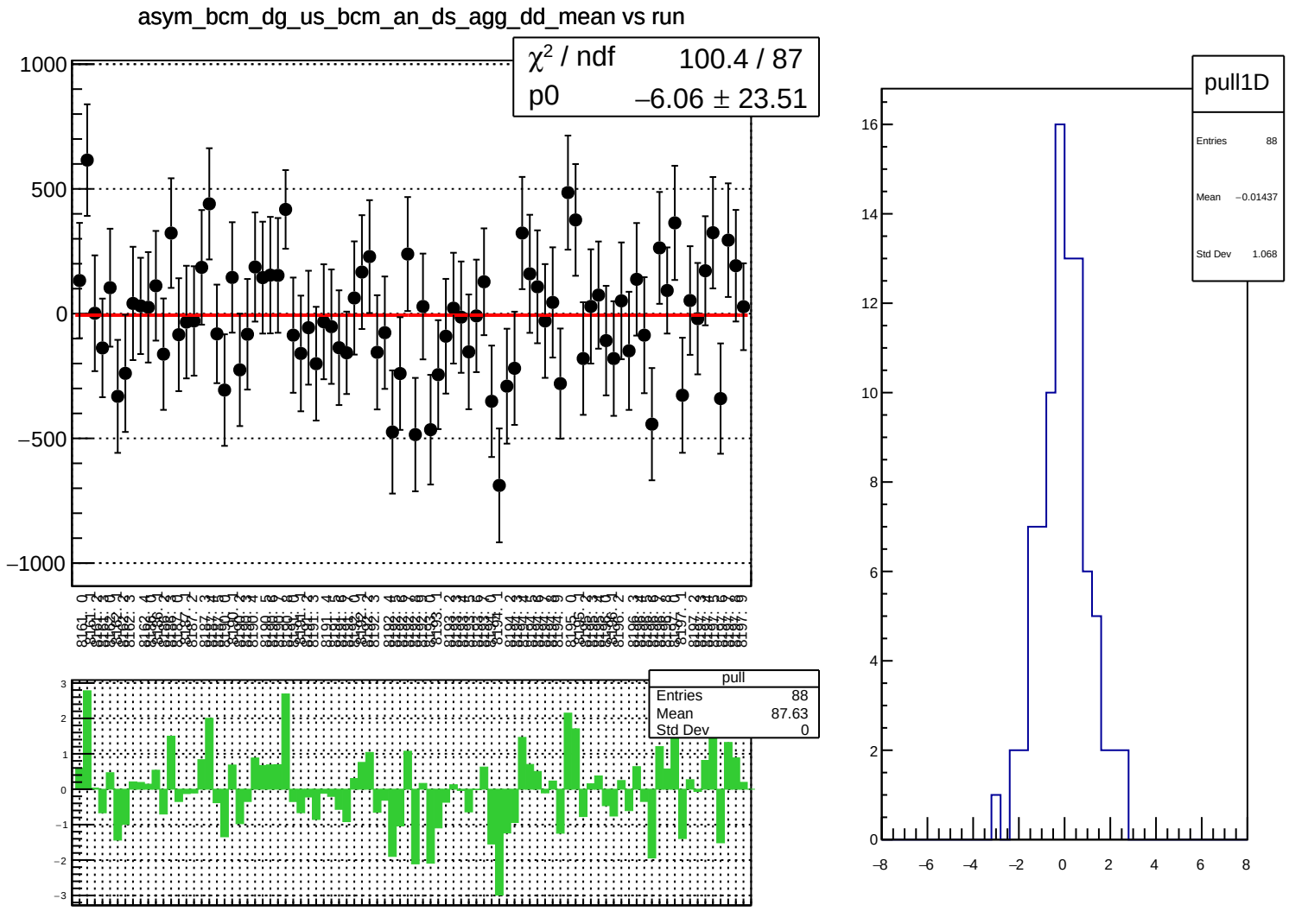

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 81.4 / 87
p0 8.349 ± 10.59
pull
Entries 88
Mean 766.9
Std Dev 0
pull1D
Entries 88
Mean 0.003851
Std Dev 0.9618

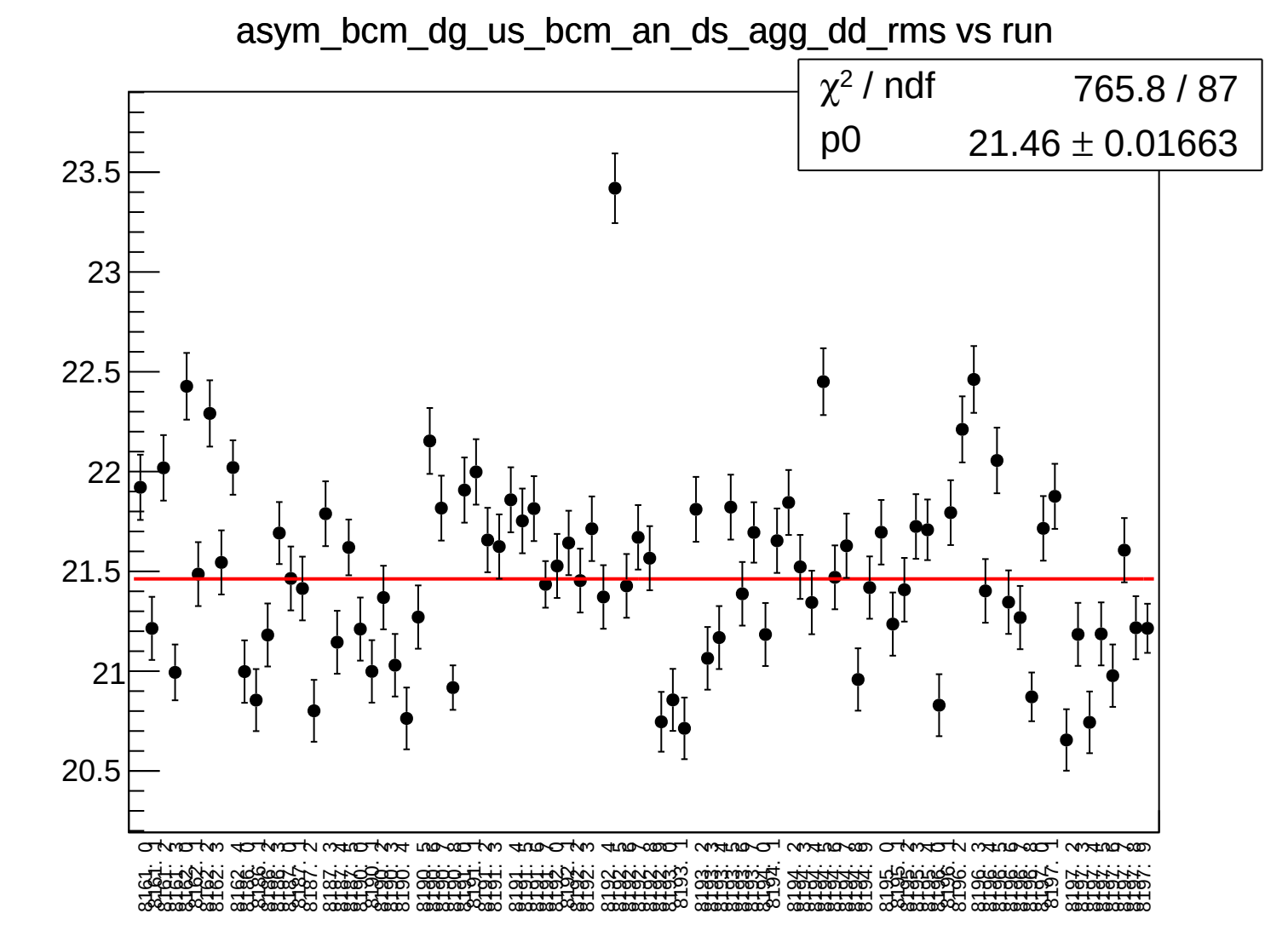

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3413 / 87
p0 9.655 ± 0.007486
11.5
11
10.5
10
9.5
9

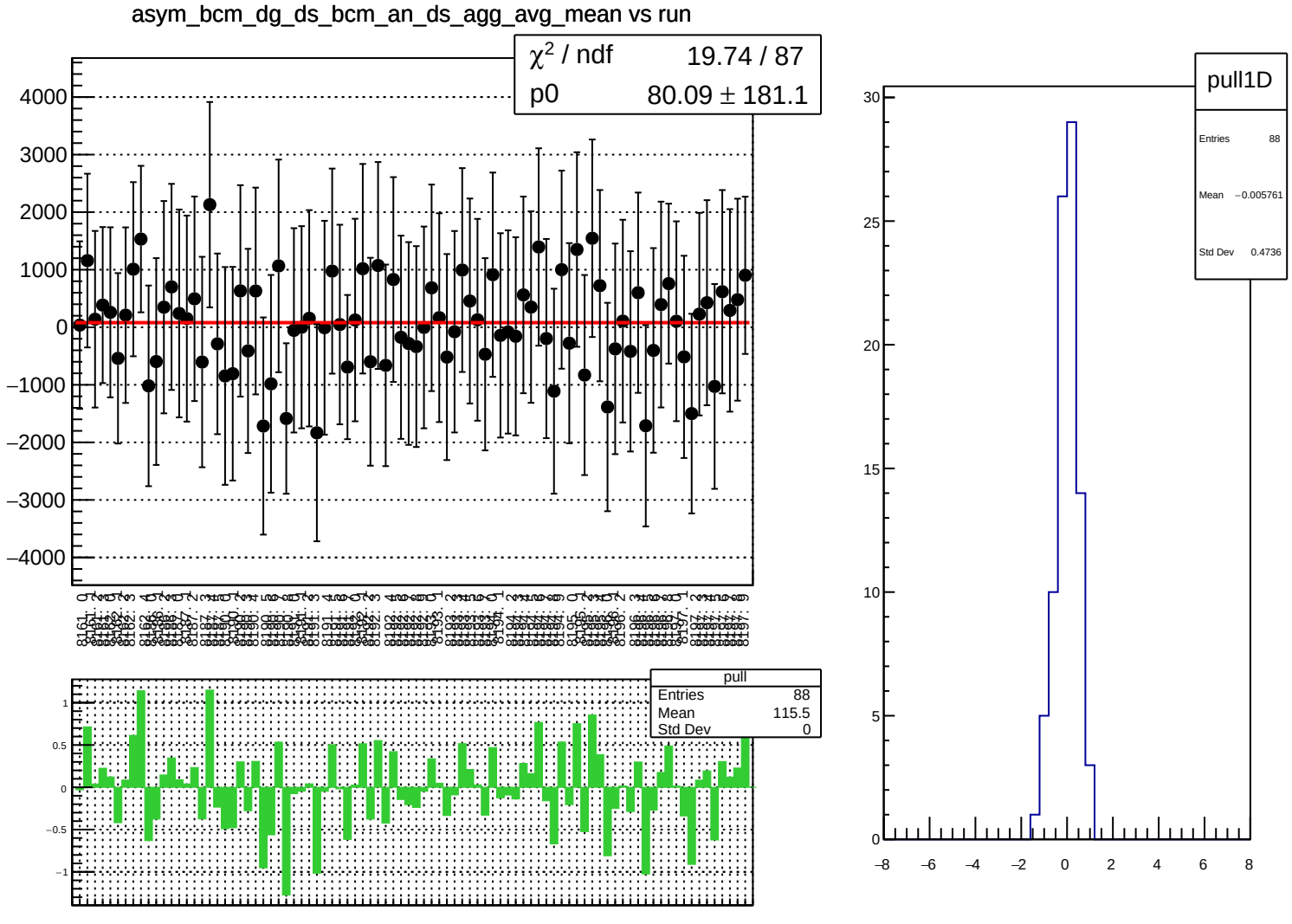

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.22 / 87
p0 86.63 ± 181.4
pull
Entries 88
Mean 136.3
Std Dev 0

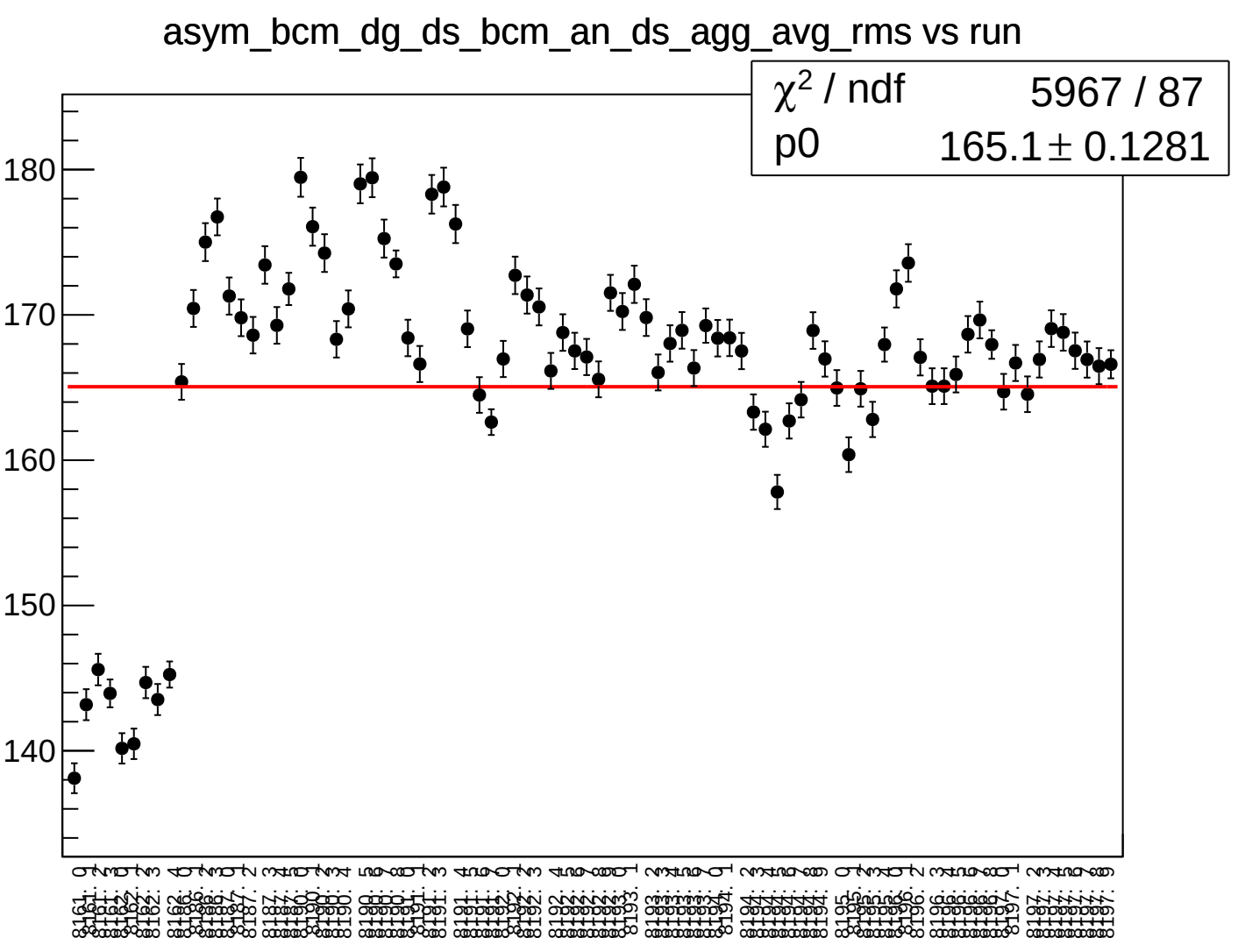

pull1D
Entries 88
Mean −0.007182
Std Dev 0.491

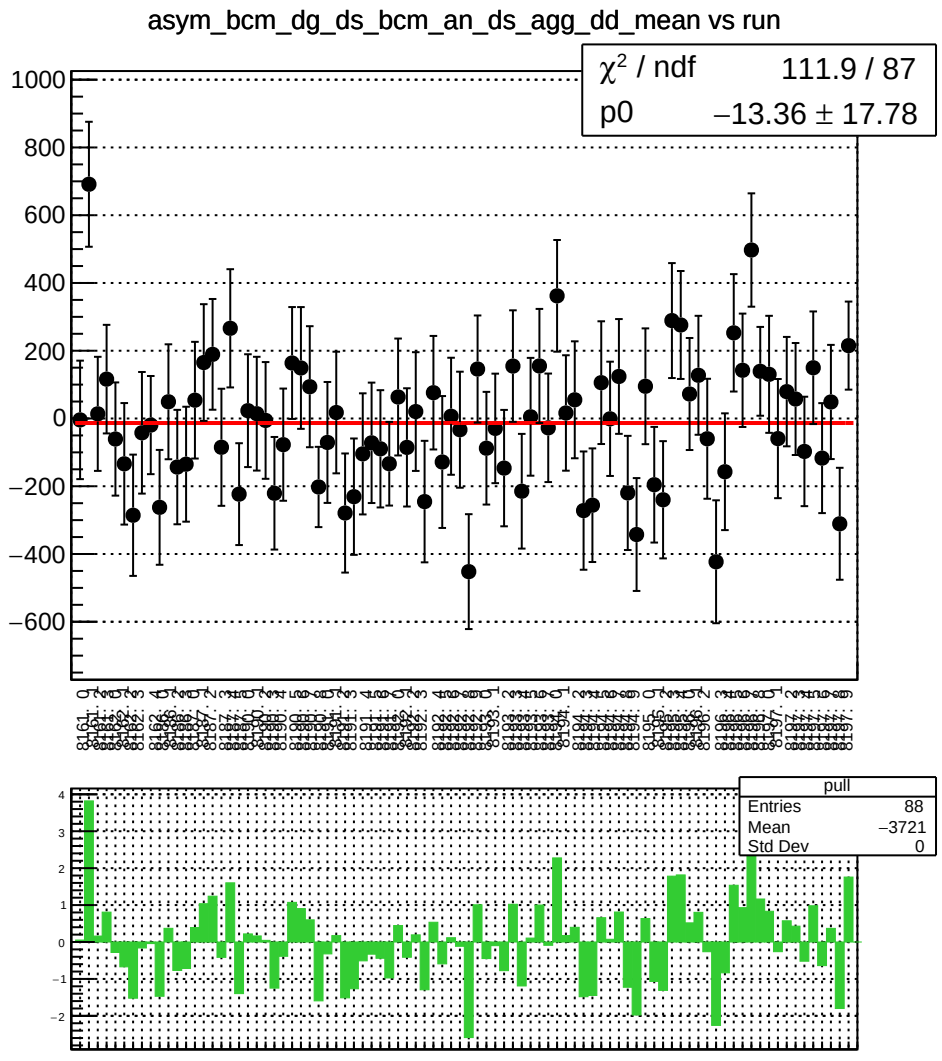

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5816 / 87
p0 165.3 ± 0.1283
180
170
160
150
140

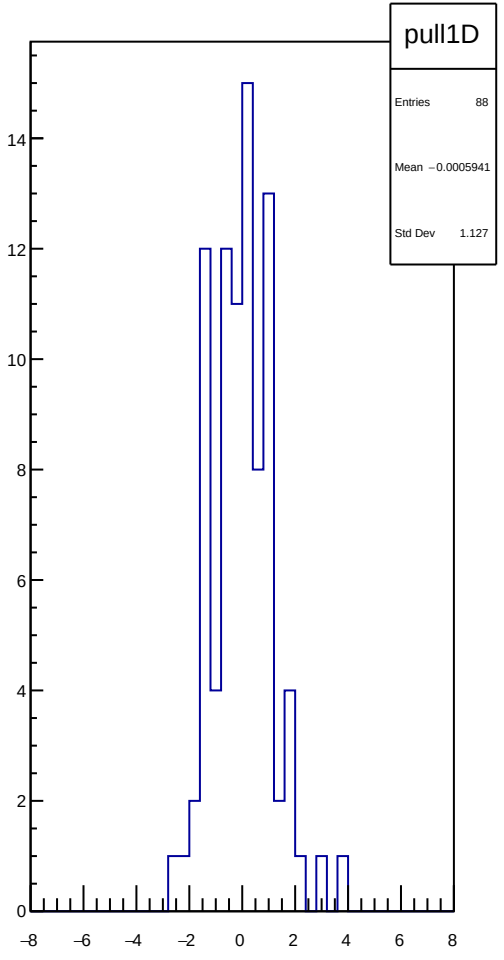

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 100.4 / 87
p0 −6.06 ± 23.51
1000
500
0
−500
−1000
pull
Entries 88
Mean 87.63
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01437
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

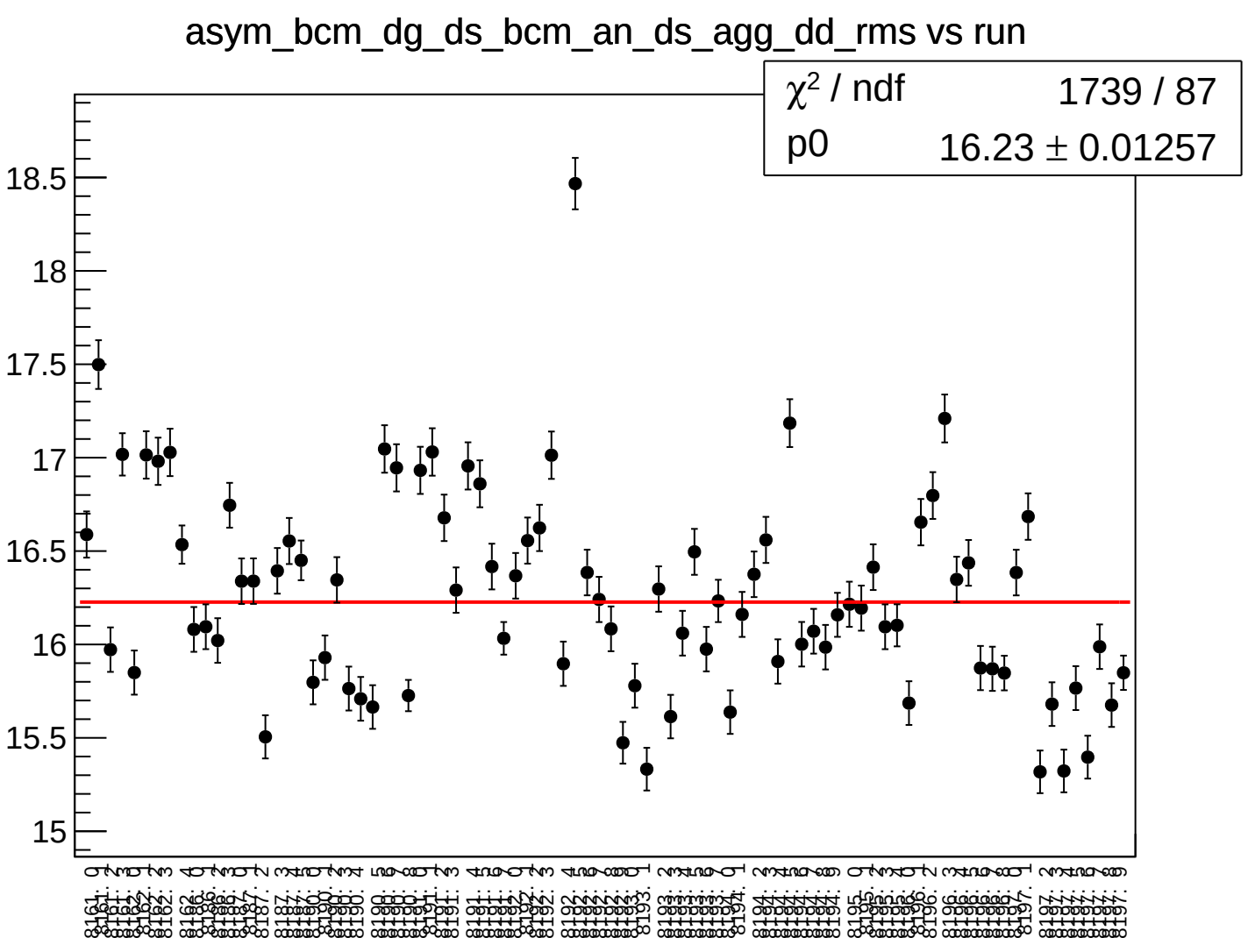

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 765.8 / 87
p0 21.46 ± 0.01663
23.5
23
22.5
22
21.5
21
20.5

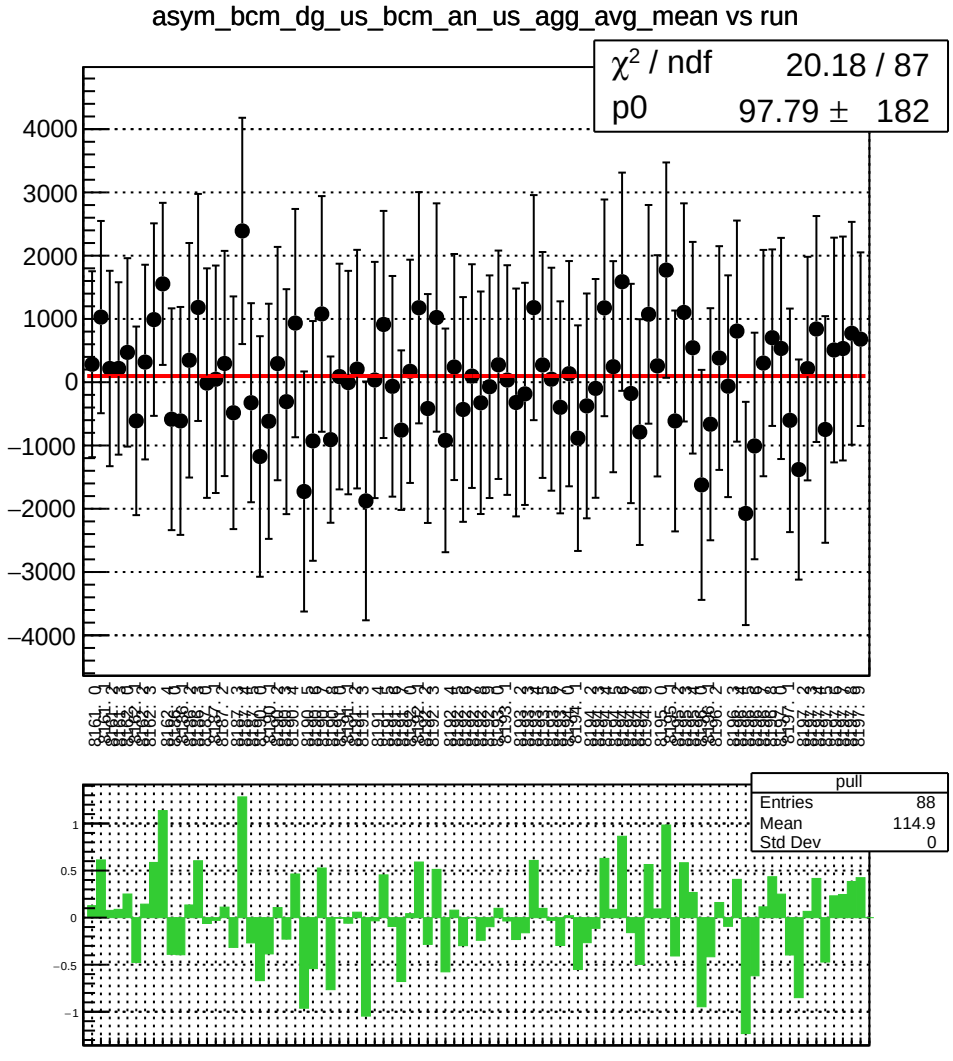

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.74 / 87
p0 80.09 ± 181.1
pull
Entries 88
Mean 115.5
Std Dev 0
pull1D
Entries 88
Mean −0.005761
Std Dev 0.4736

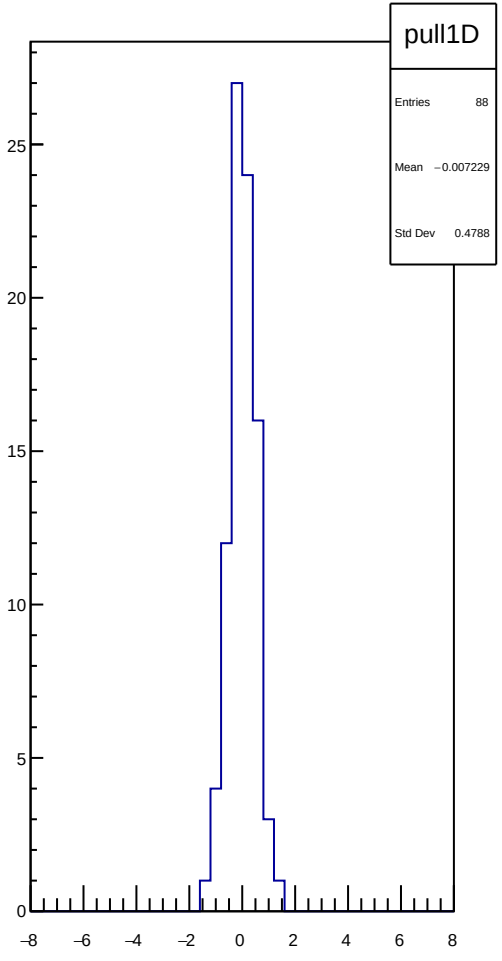

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5967 / 87
p0 165.1 ± 0.1281
180
170
160
150
140

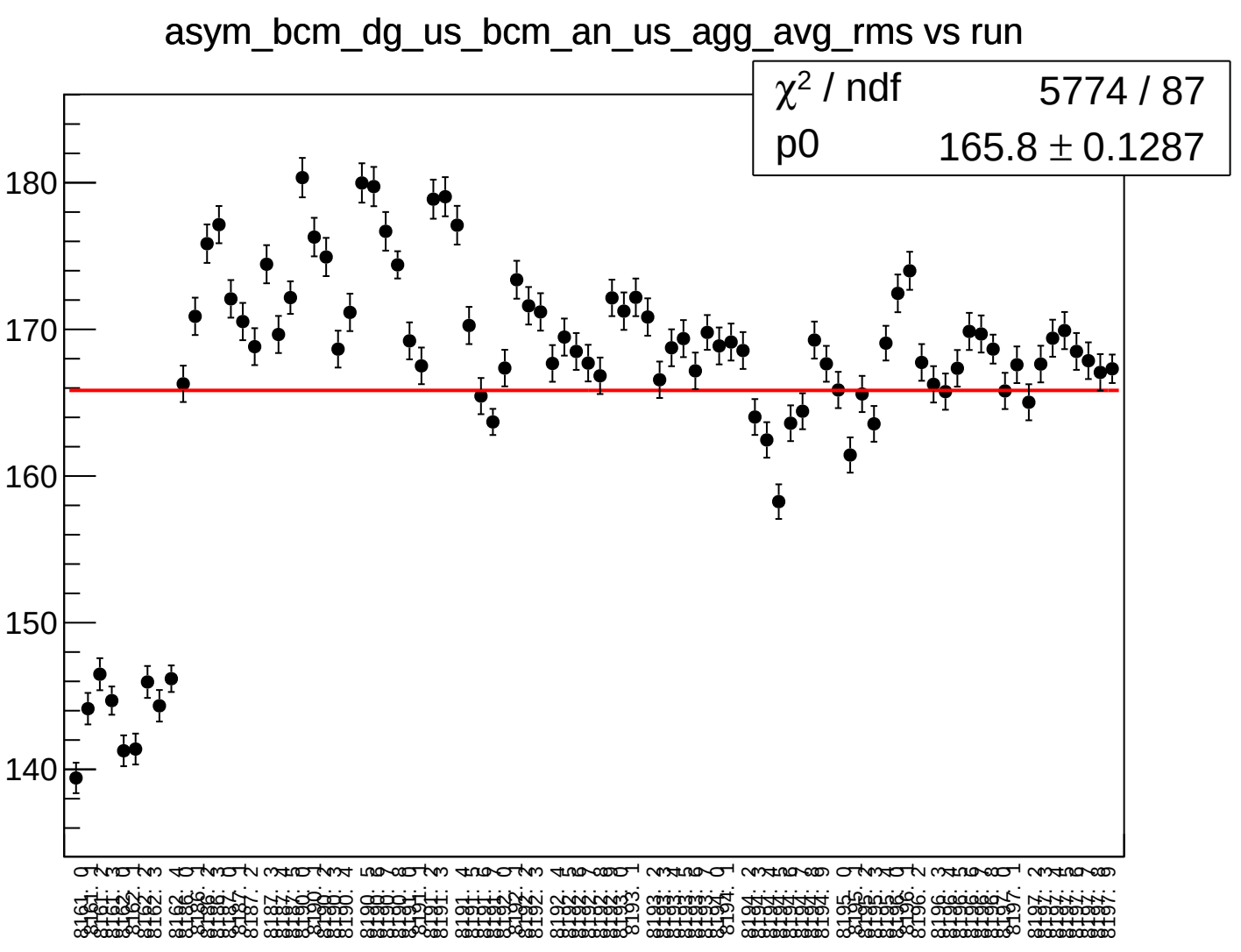

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 111.9 / 87
p0 −13.36 ± 17.78
pull
Entries 88
Mean −3721
Std Dev 0

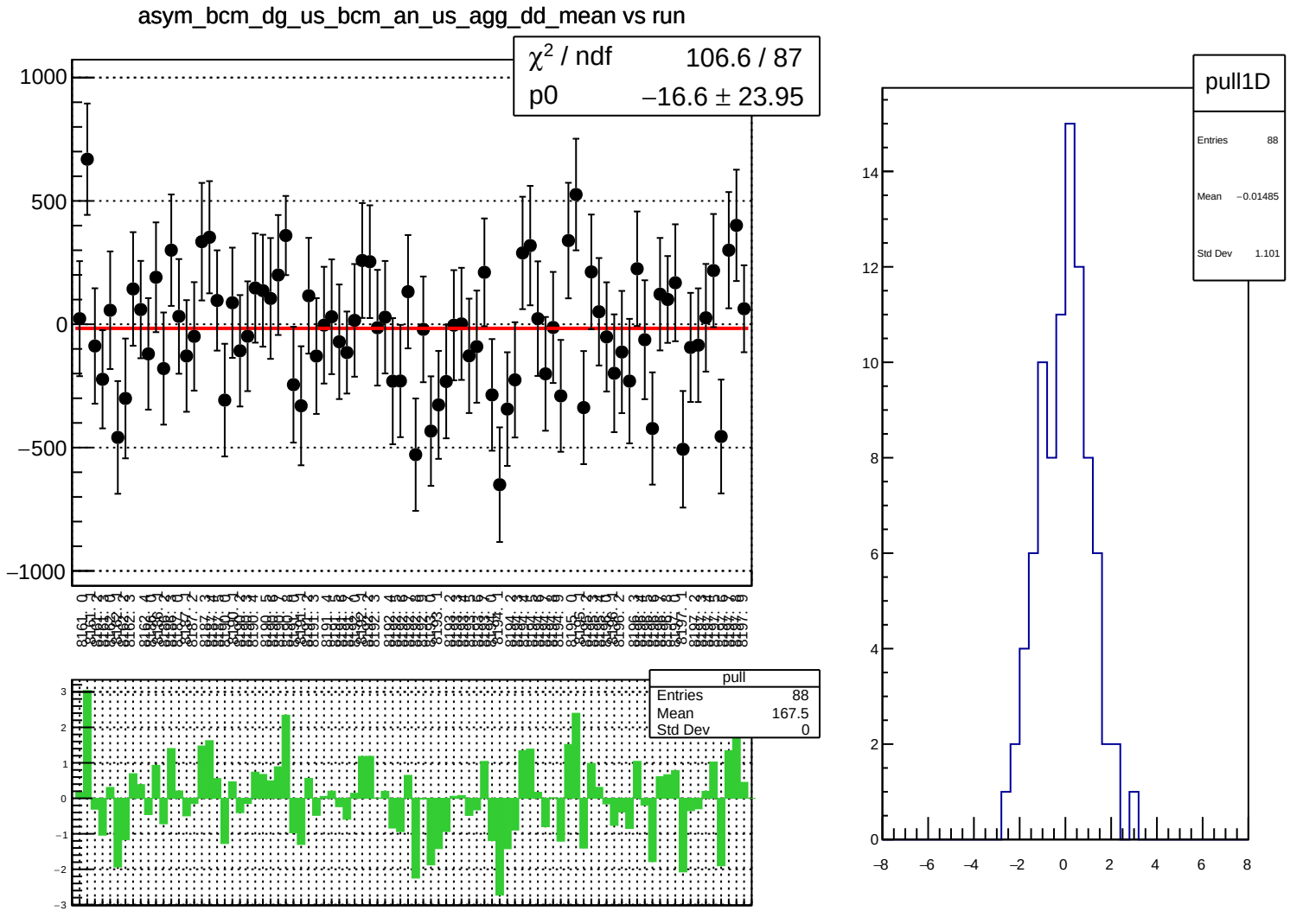

pull1D
Entries 88
Mean −0.0005941
Std Dev 1.127

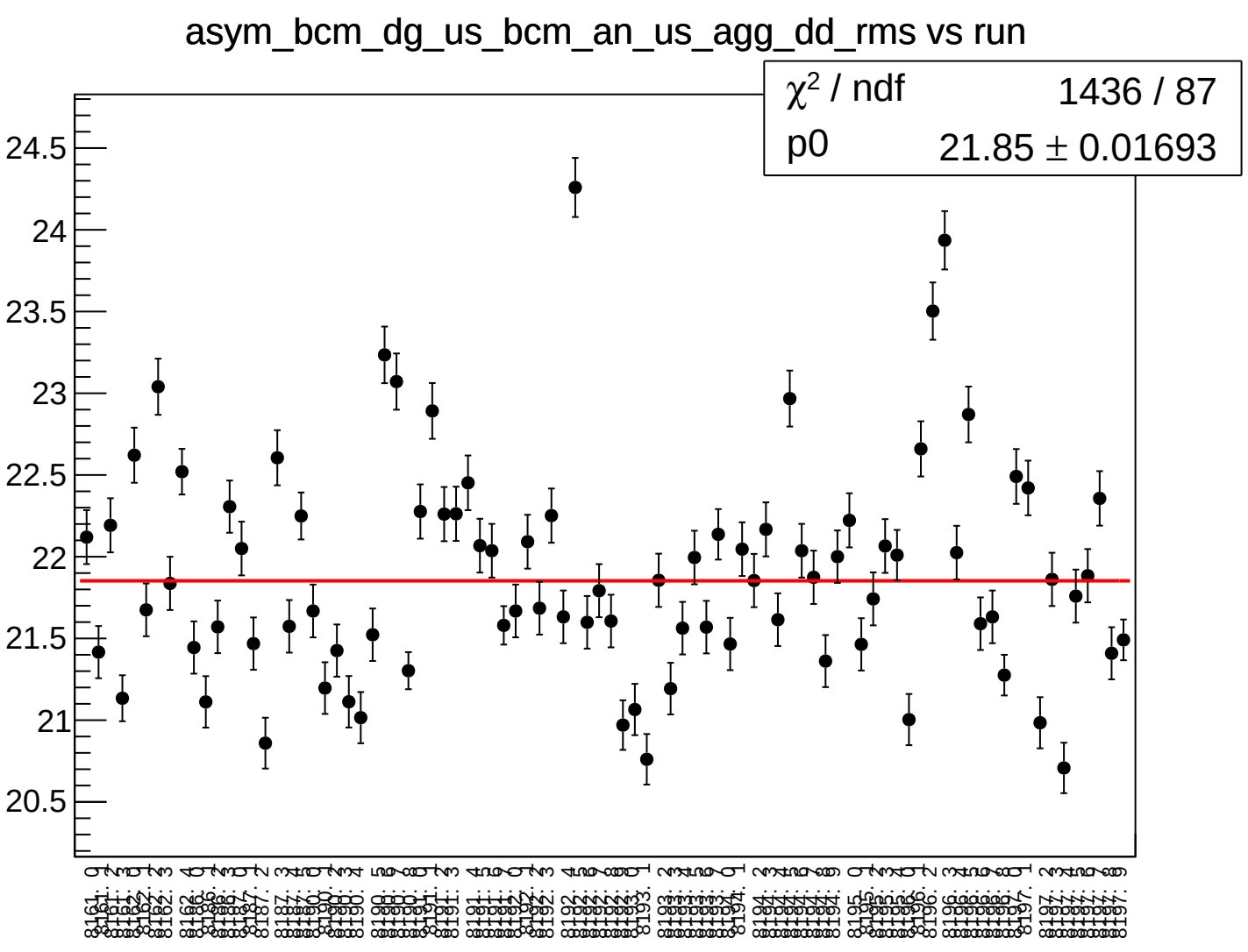

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1739 / 87
p0 16.23 ± 0.01257
18.5
18
17.5
17
16.5
16
15.5
15

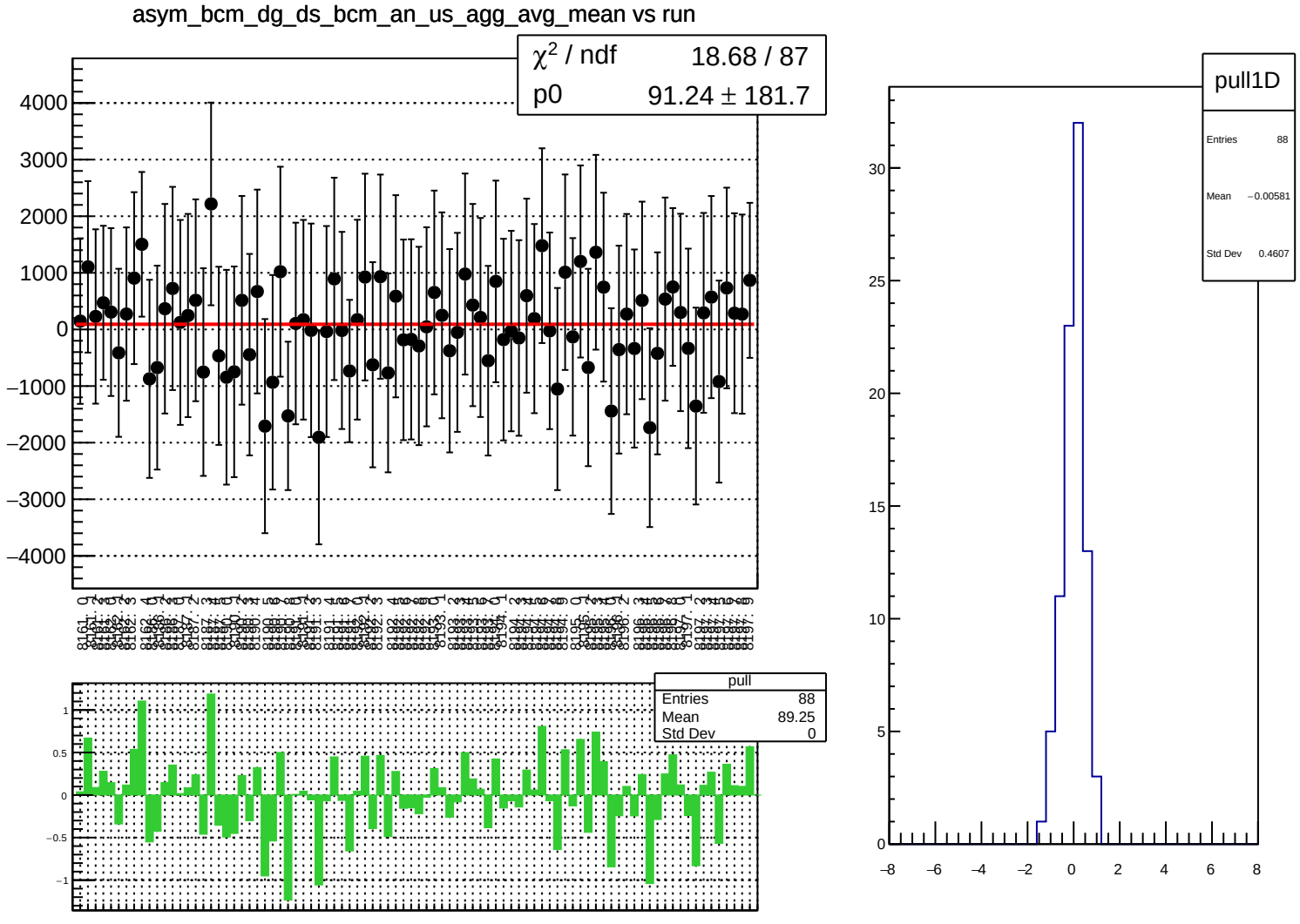

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.18 / 87
p0 97.79 ± 182
pull
Entries 88
Mean 114.9
Std Dev 0

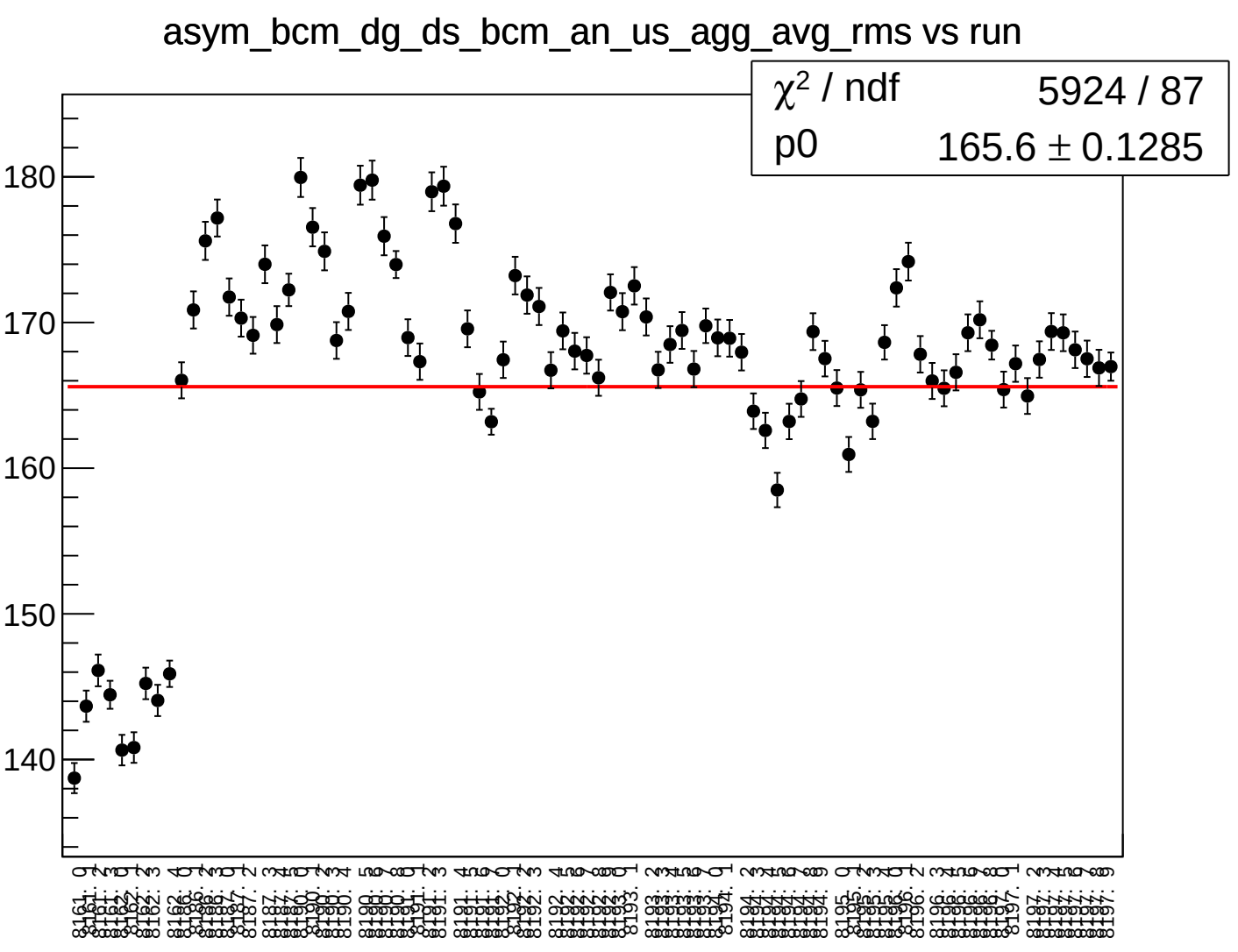

pull1D
Entries 88
Mean −0.007229
Std Dev 0.4788

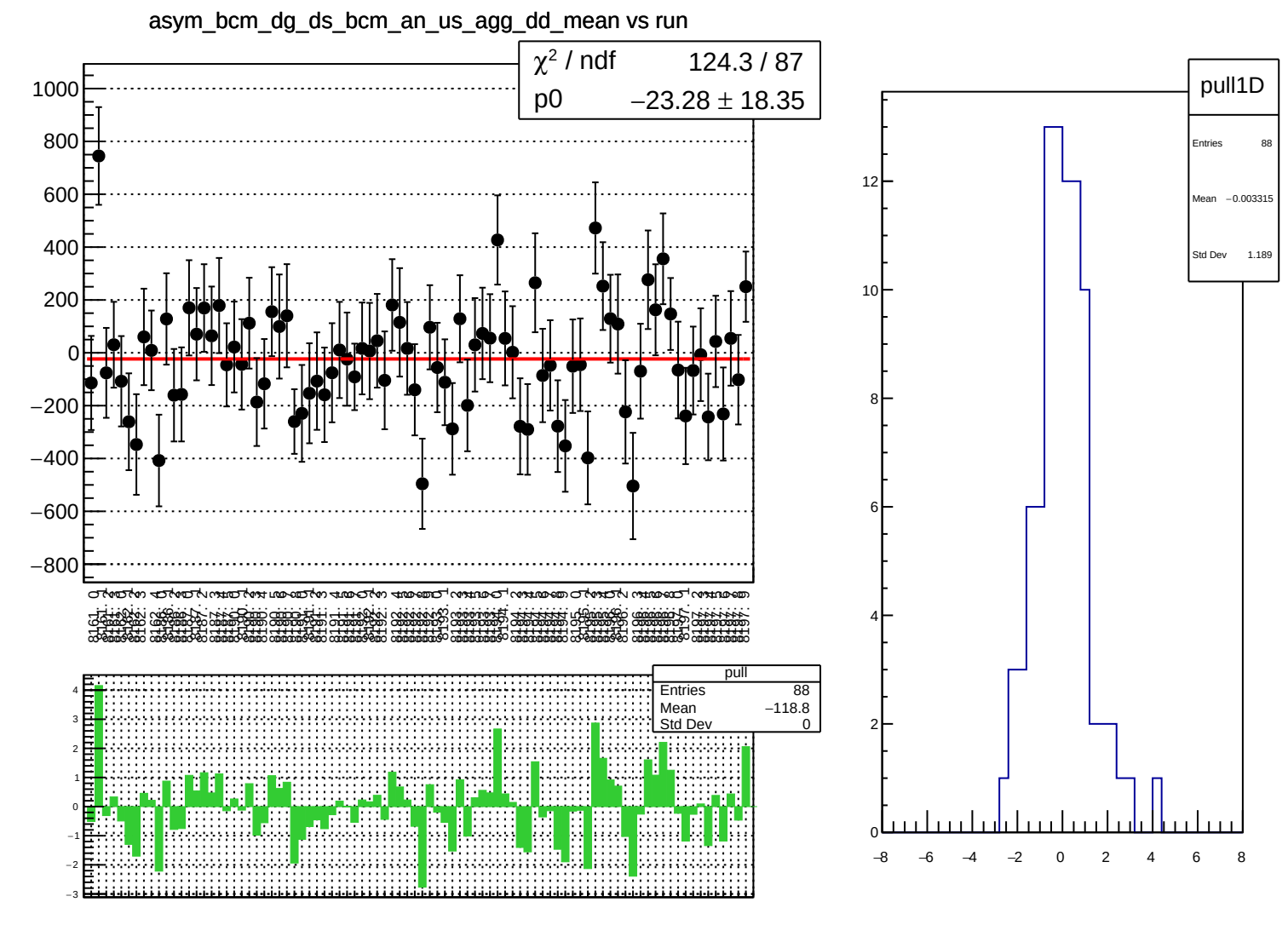

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5774 / 87
p0 165.8 ± 0.1287
180
170
160
150
140

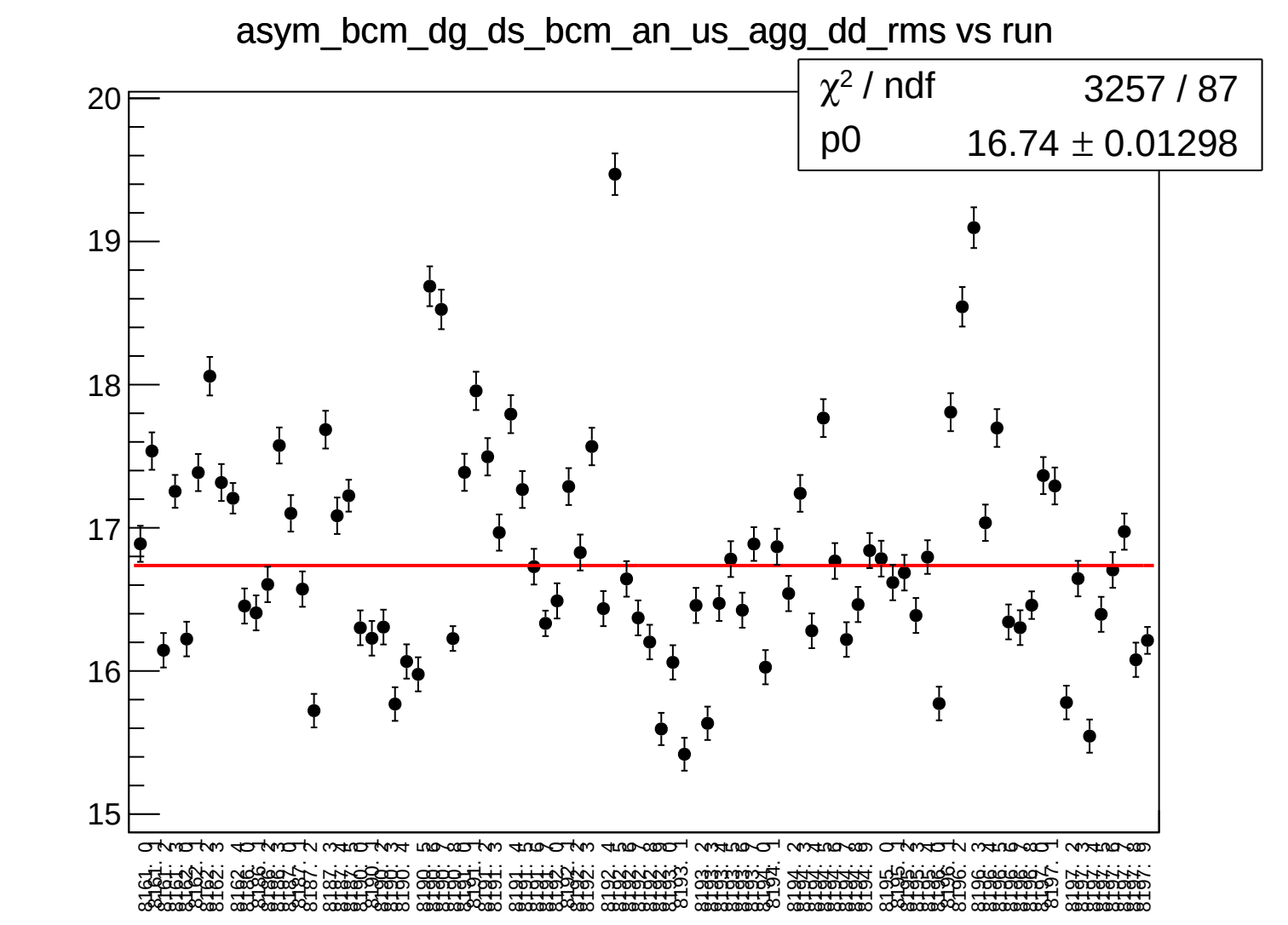

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 106.6 / 87
p0 −16.6 ± 23.95
1000
500
0
−500
−1000
pull
Entries 88
Mean 167.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01485
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

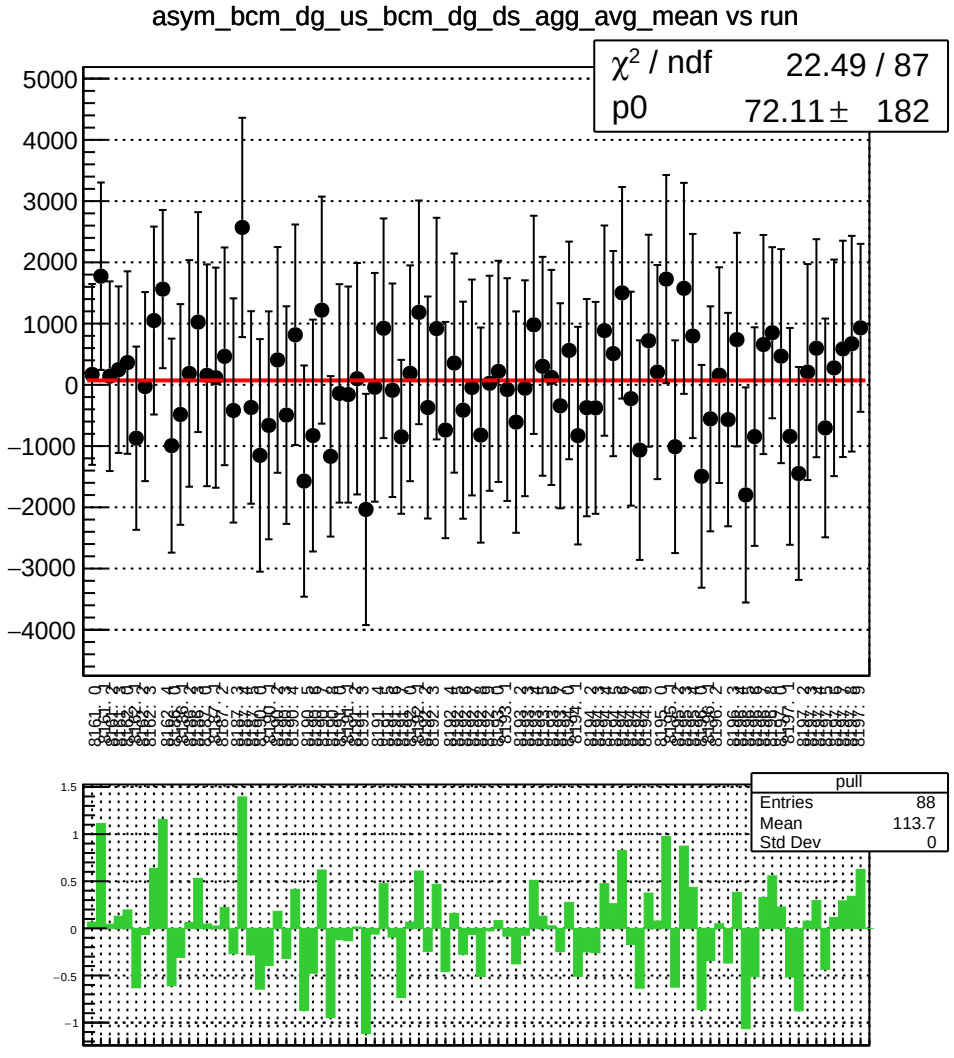

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1436 / 87
p0 21.85 ± 0.01693
24.5
24
23.5
23
22.5
22
21.5
21
20.5

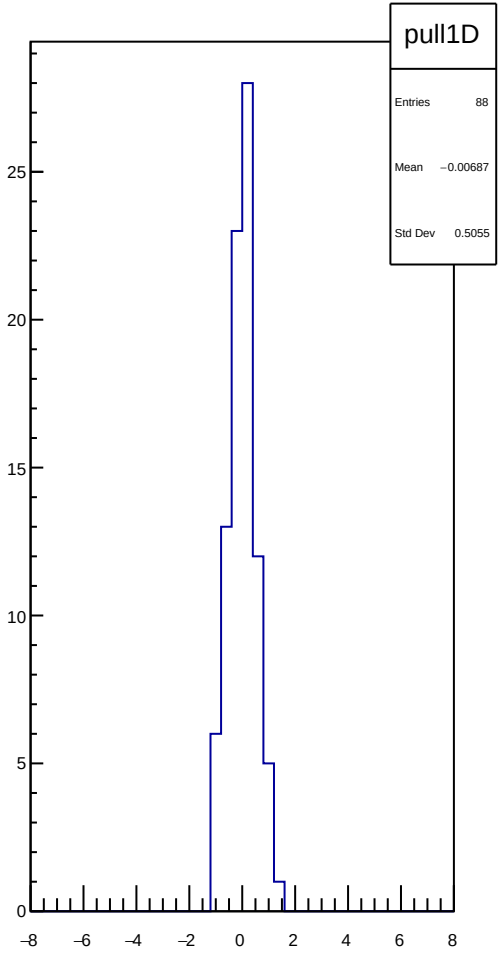

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 18.68 / 87
p0 91.24 ± 181.7
pull
Entries 88
Mean 89.25
Std Dev 0
pull1D
Entries 88
Mean −0.00581
Std Dev 0.4607

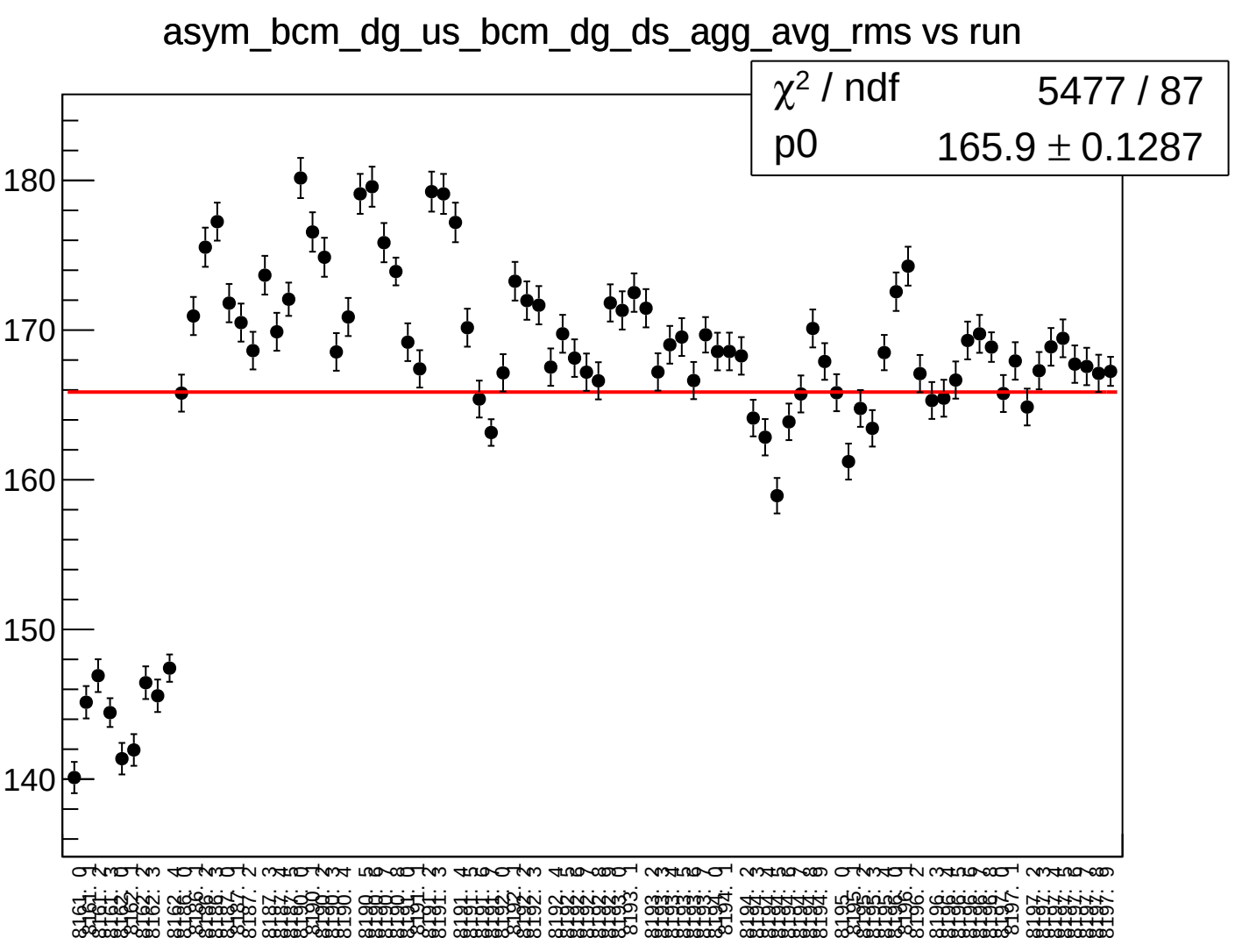

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5924 / 87
p0 165.6 ± 0.1285
180
170
160
150
140

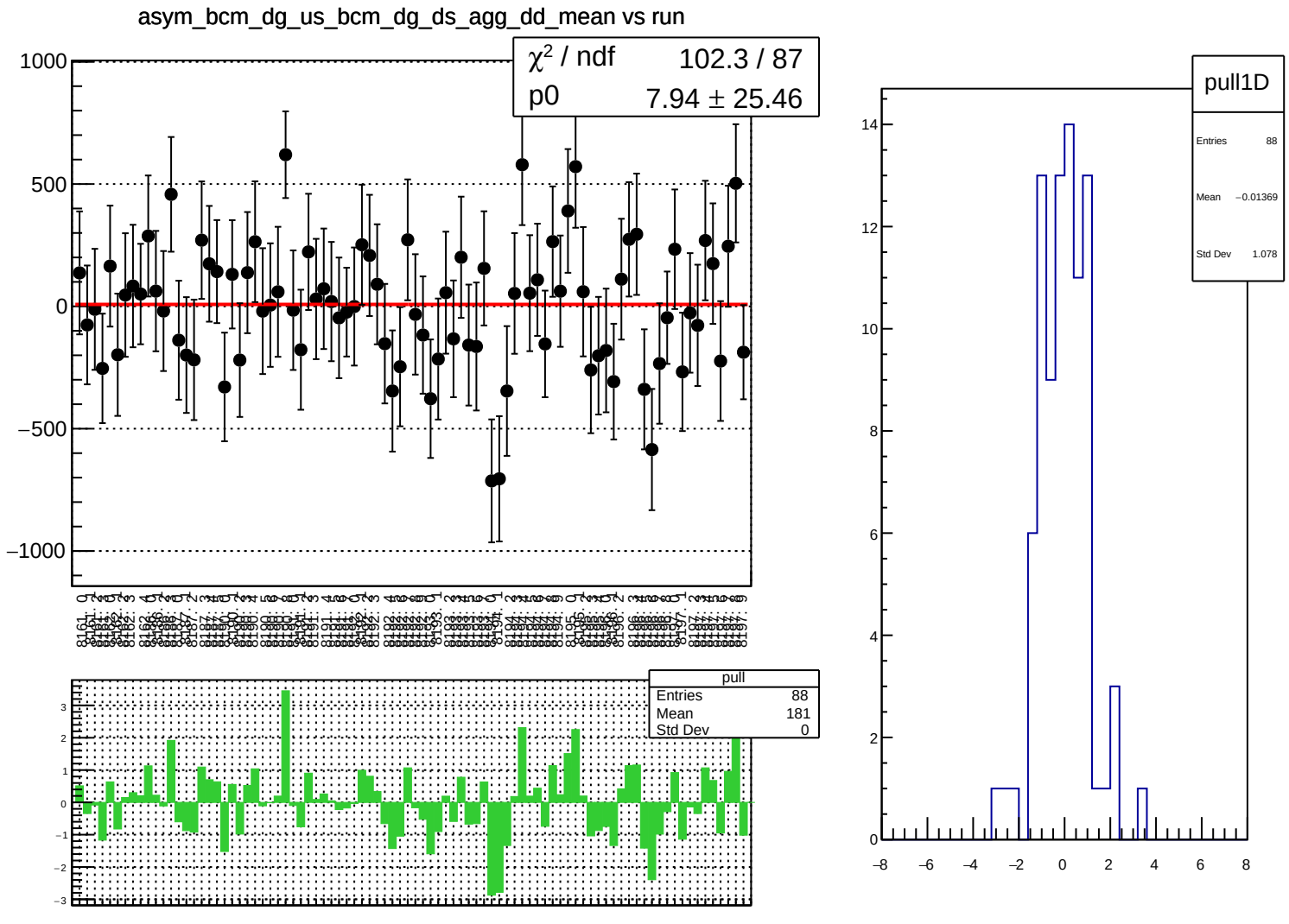

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 124.3 / 87
p0 −23.28 ± 18.35
pull
Entries 88
Mean −118.8
Std Dev 0
pull1D
Entries 88
Mean −0.003315
Std Dev 1.189

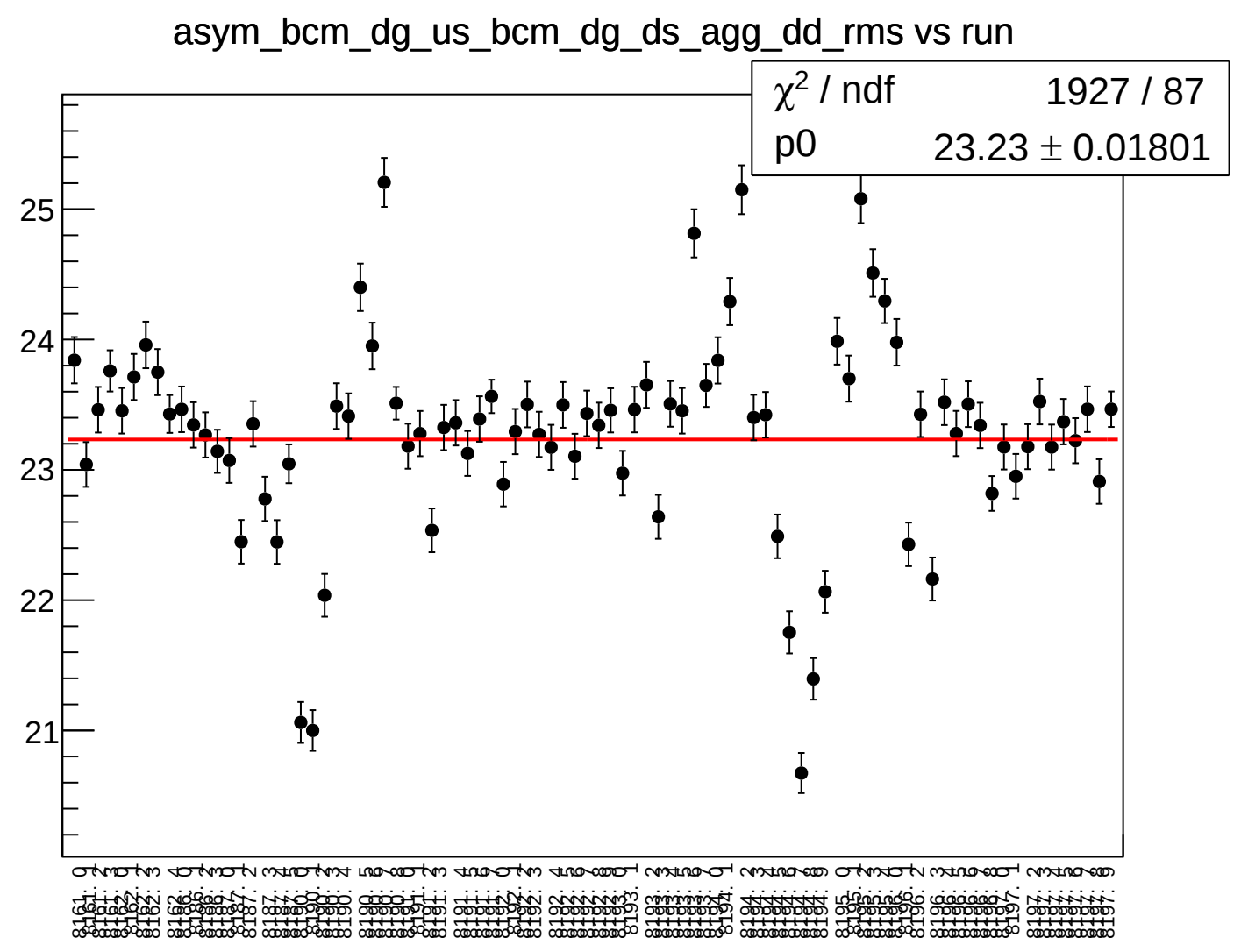

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3257 / 87
p0 16.74 ± 0.01298
20
19
18
17
16
15

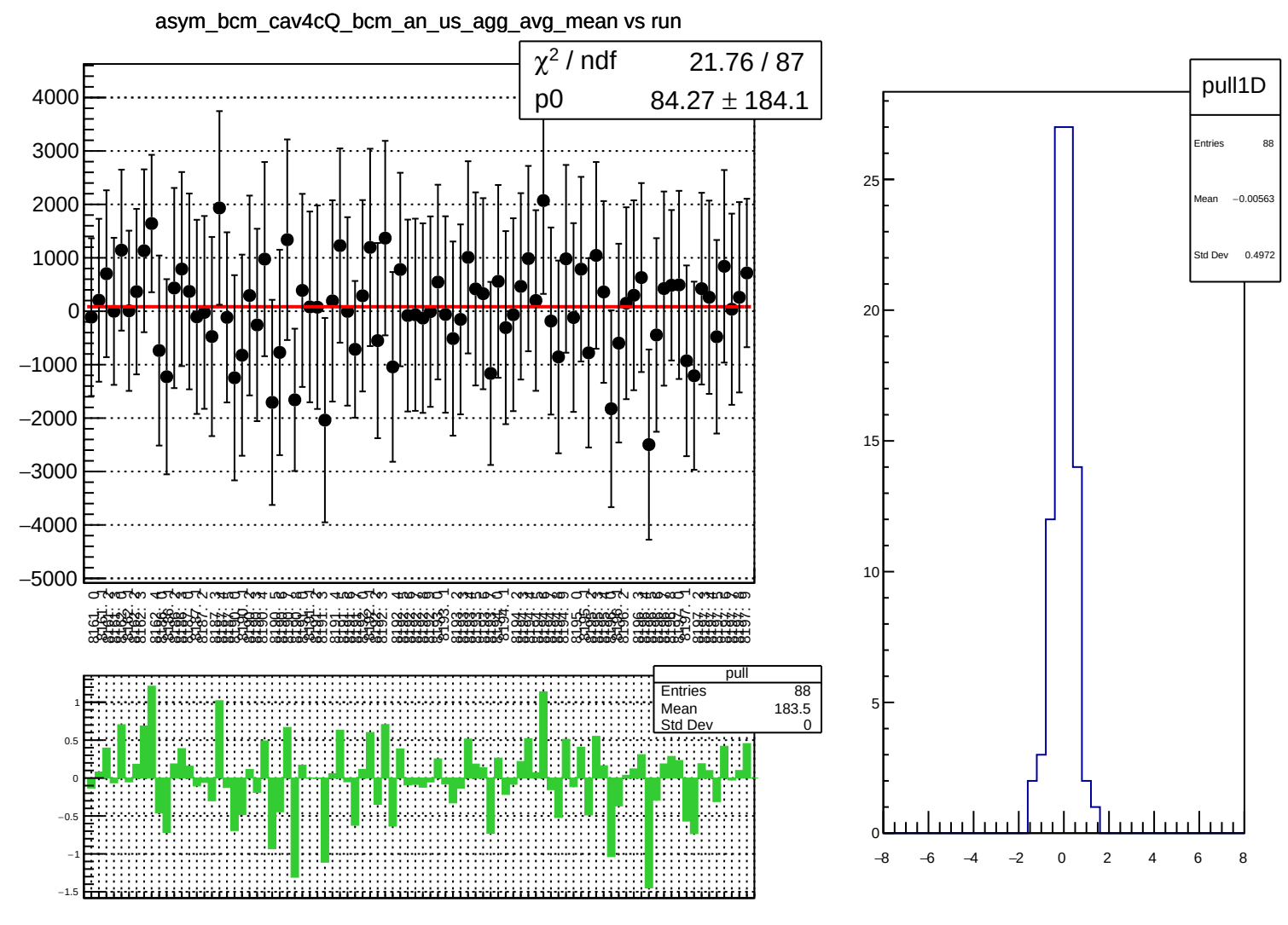

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 22.49 / 87
p0 72.11 ± 182
pull
Entries 88
Mean 113.7
Std Dev 0

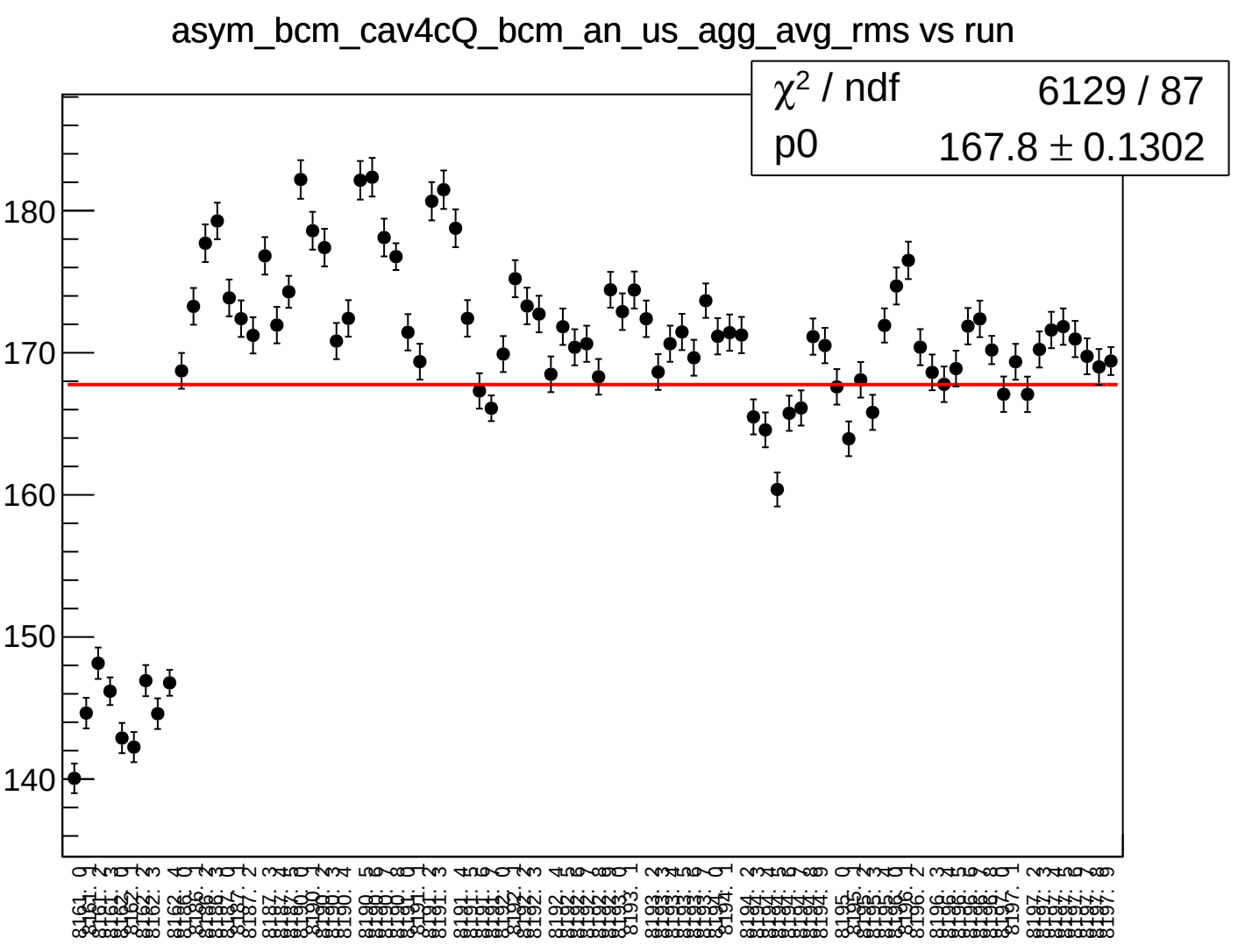

pull1D
Entries 88
Mean −0.00687
Std Dev 0.5055

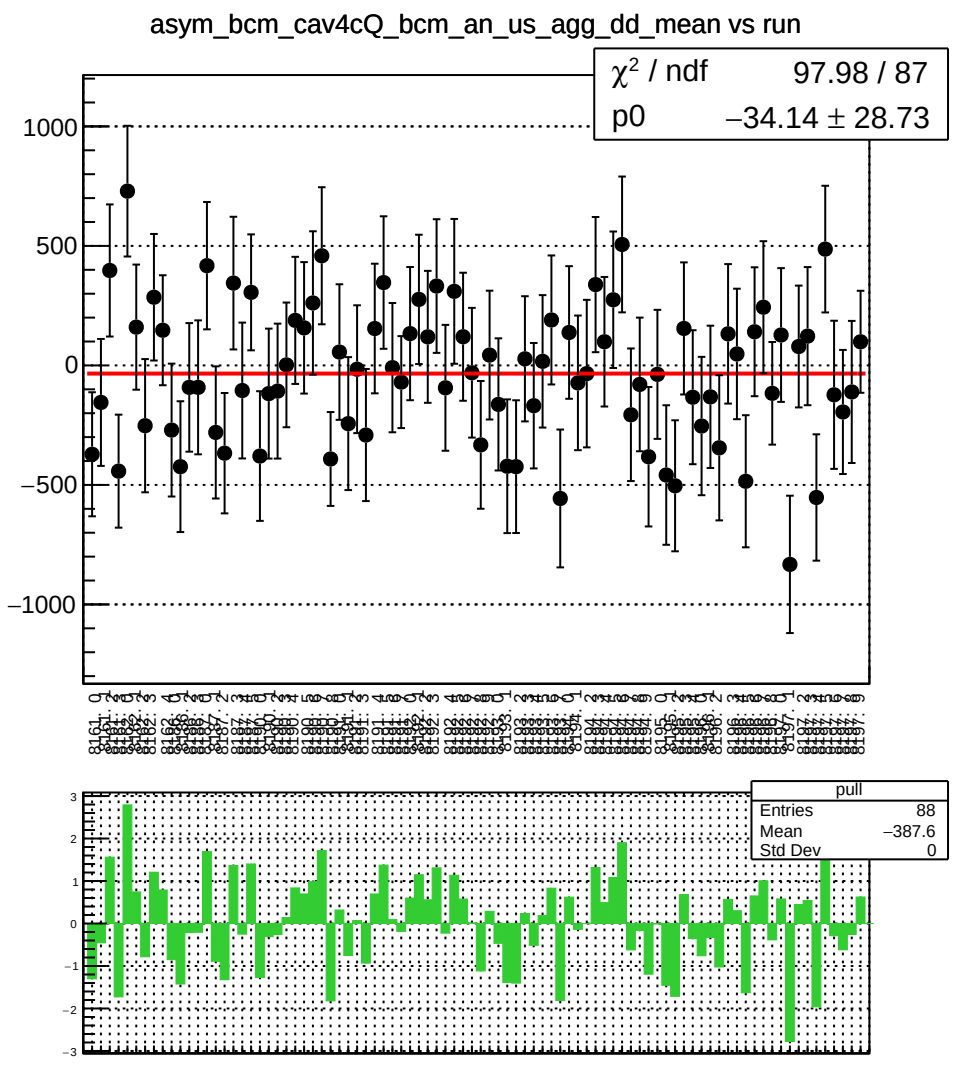

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5477 / 87
p0 165.9 ± 0.1287
180
170
160
150
140

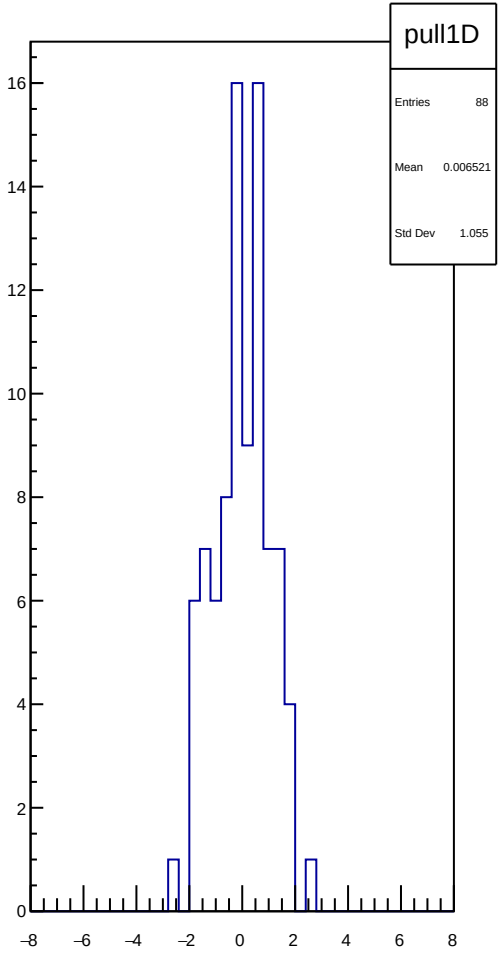

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 102.3 / 87
p0 7.94 ± 25.46
1000
500
0
−500
−1000
pull
Entries 88
Mean 181
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01369
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

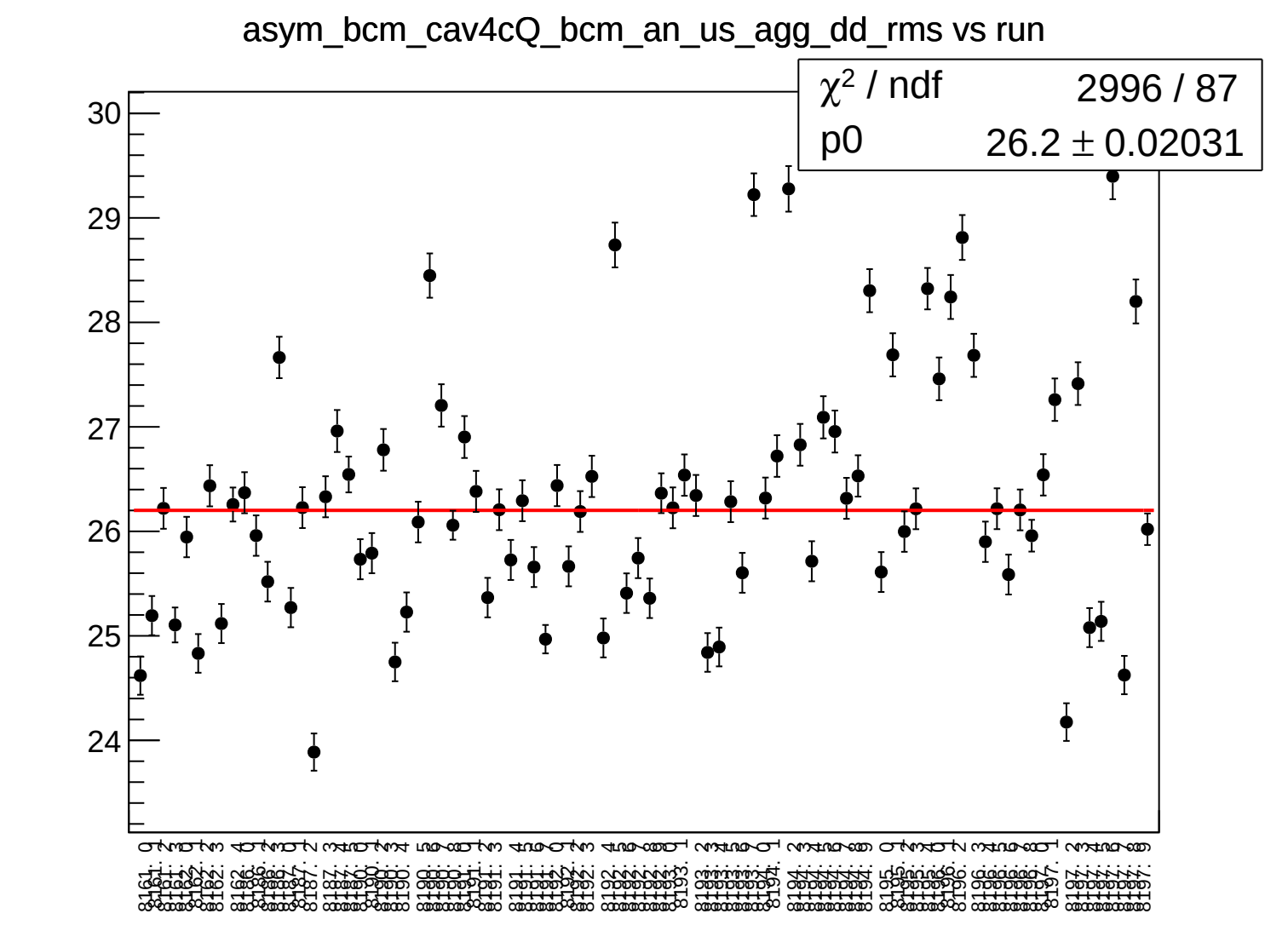

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1927 / 87
p0 23.23 ± 0.01801
25
24
23
22
21

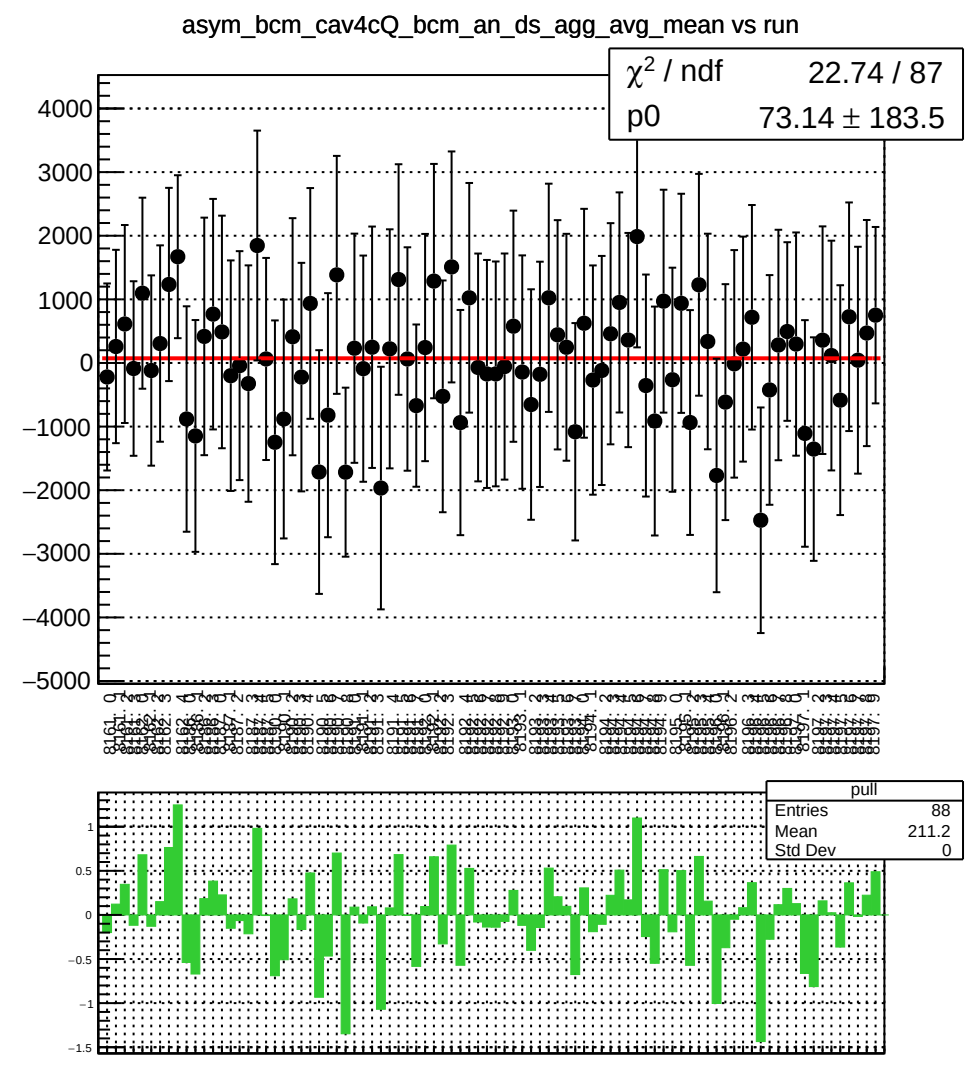

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.76 / 87
p0 84.27 ± 184.1
pull
Entries 88
Mean 183.5
Std Dev 0
pull1D
Entries 88
Mean −0.00563
Std Dev 0.4972

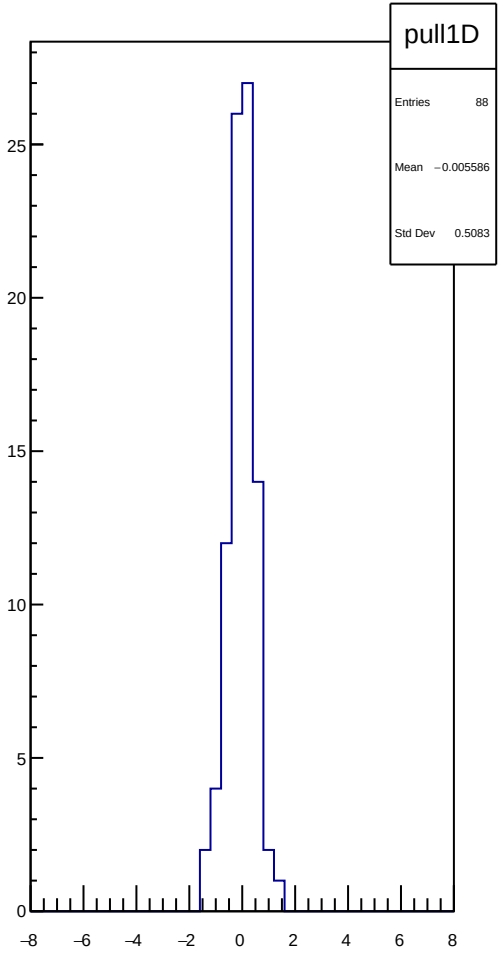

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6129 / 87
p0 167.8 ± 0.1302
180
170
160
150
140

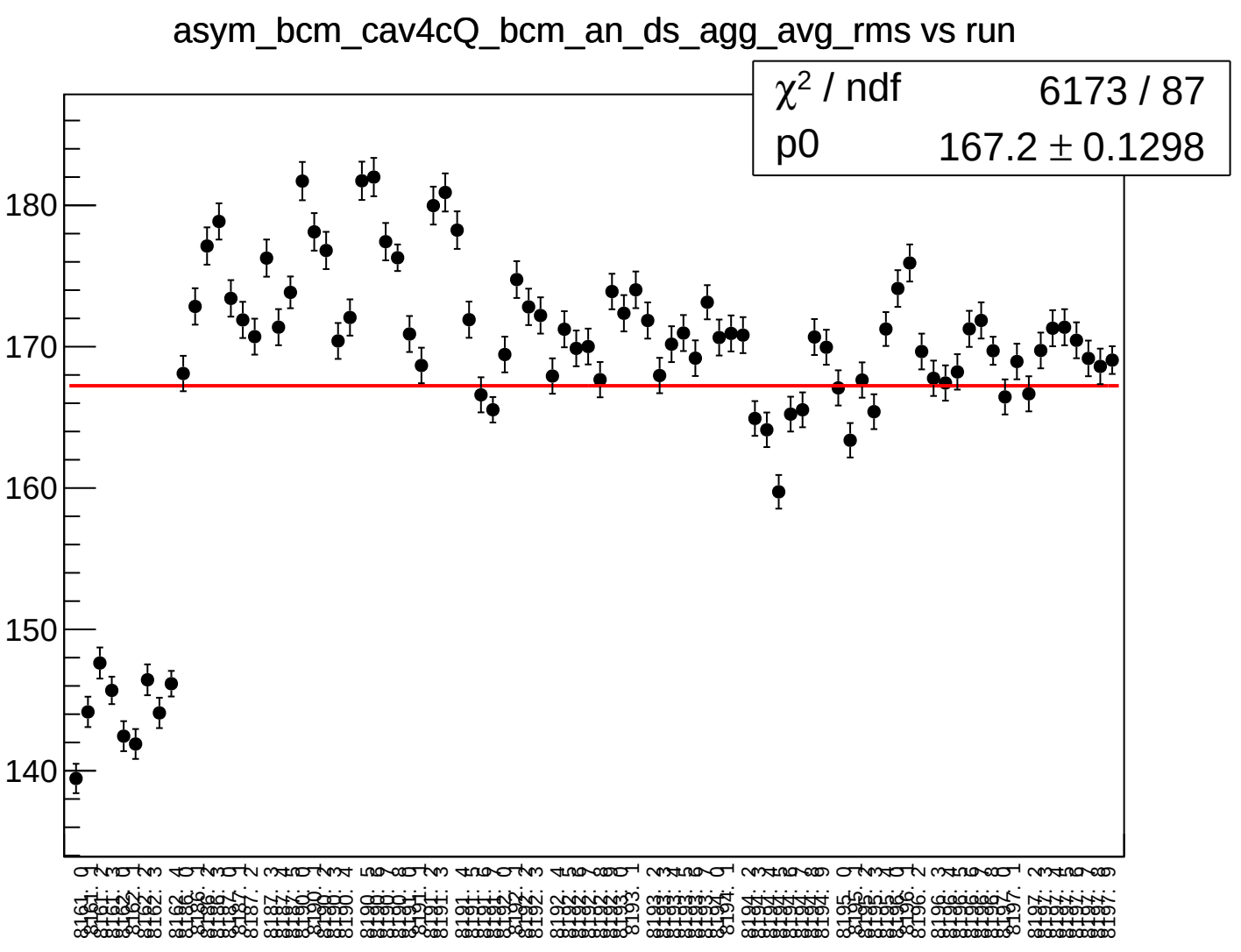

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 97.98 / 87
p0 −34.14 ± 28.73
1000
500
0
−500
−1000
pull
Entries 88
Mean −387.6
Std Dev 0
3
2
1
0
−1
−2
−3

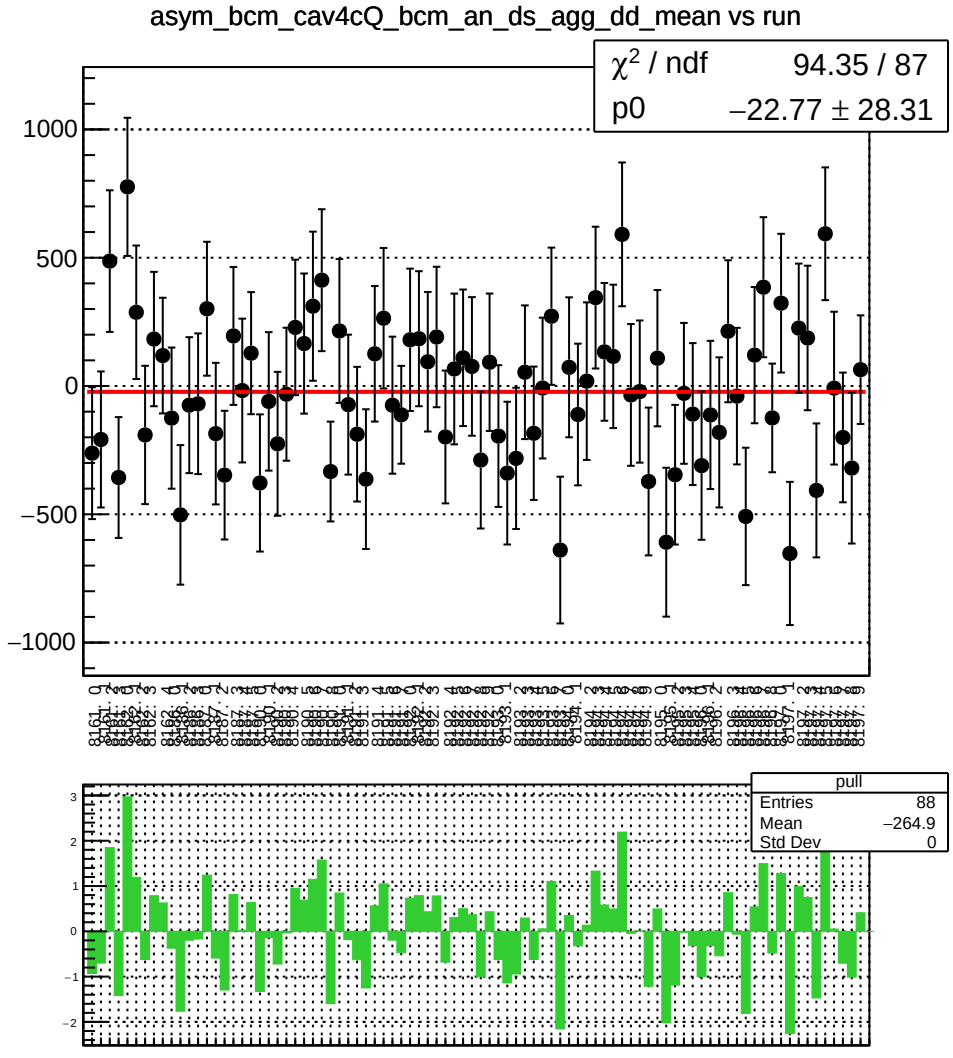

pull1D
Entries 88
Mean 0.006521
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

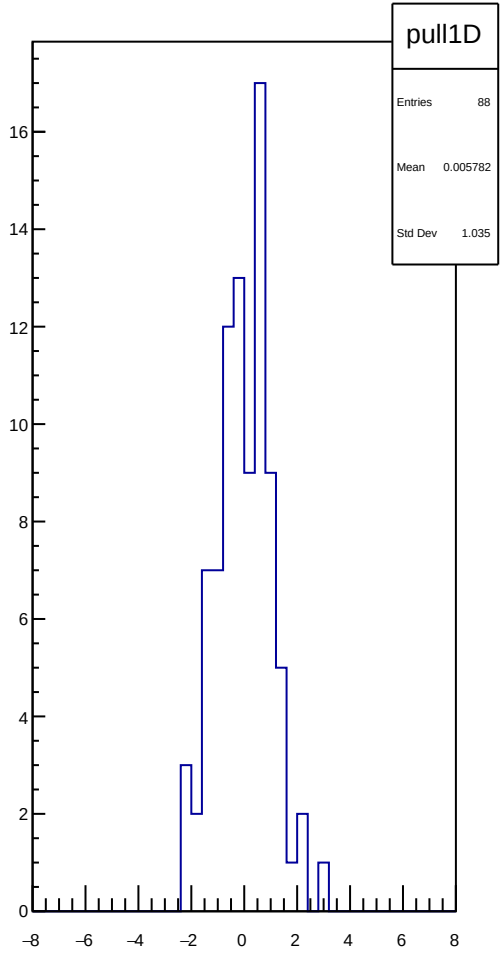

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2996 / 87
p0 26.2 ± 0.02031
30
29
28
27
26
25
24

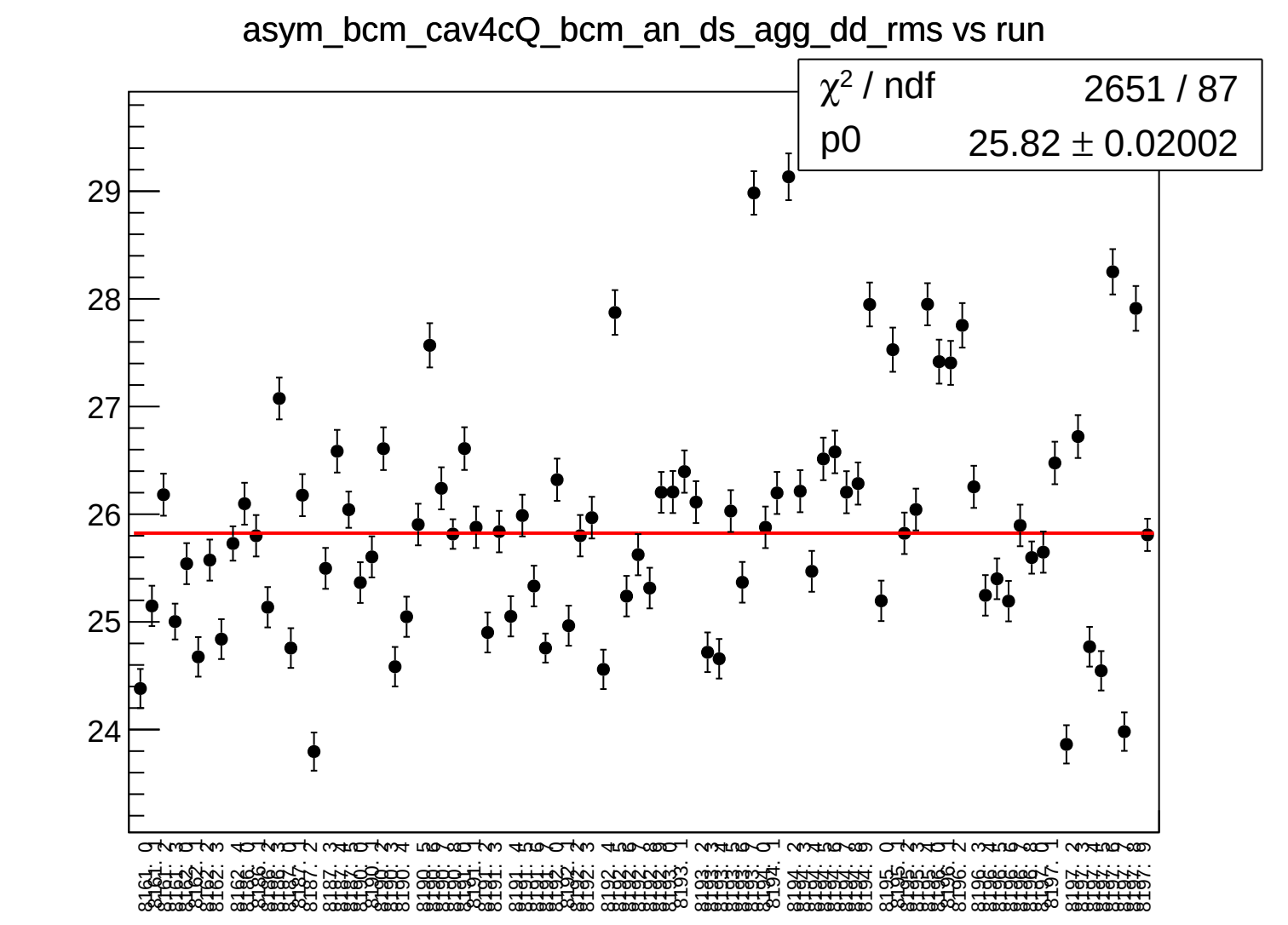

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.74 / 87
p0 73.14 ± 183.5
pull
Entries 88
Mean 211.2
Std Dev 0

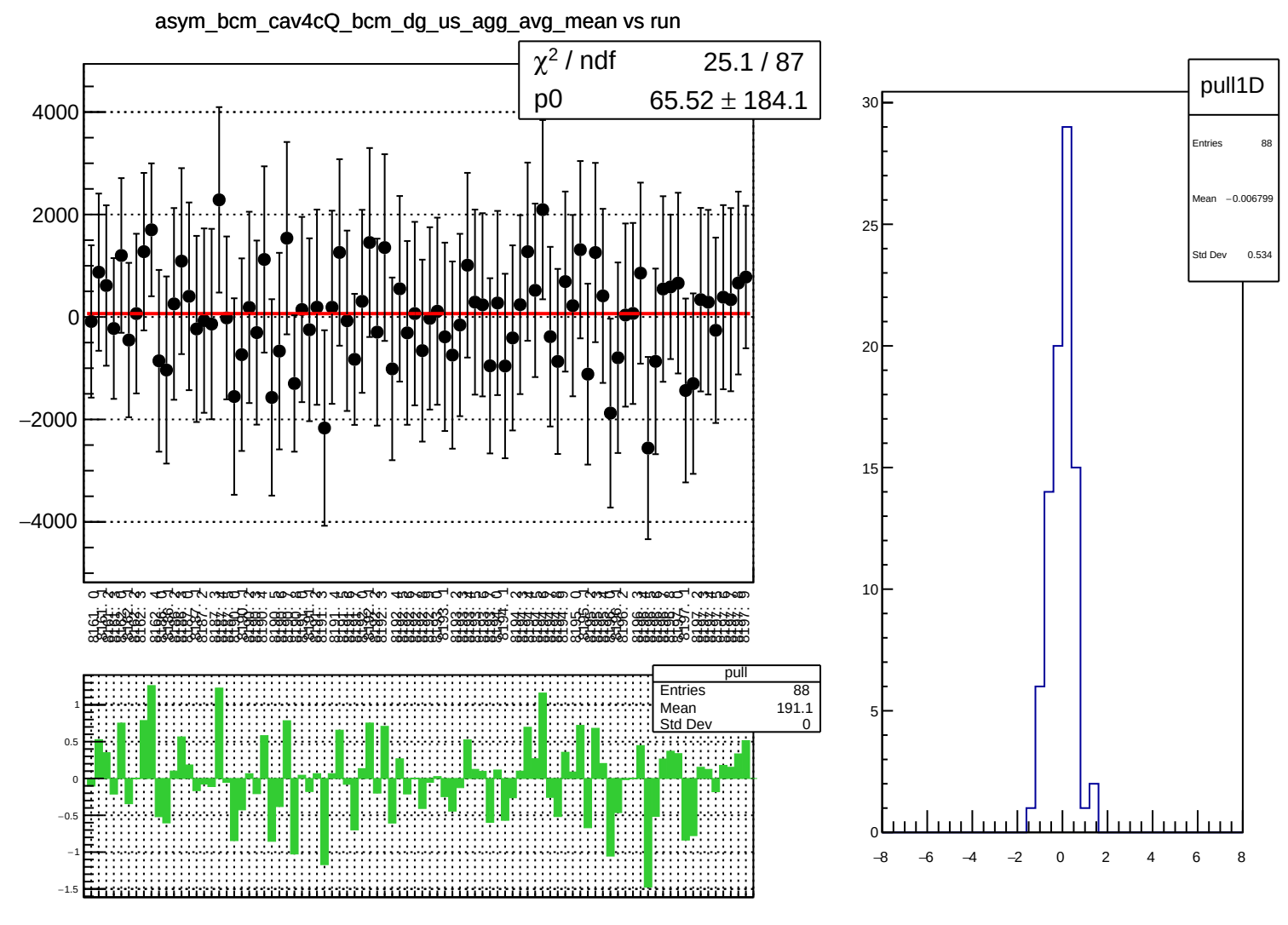

pull1D
Entries 88
Mean −0.005586
Std Dev 0.5083

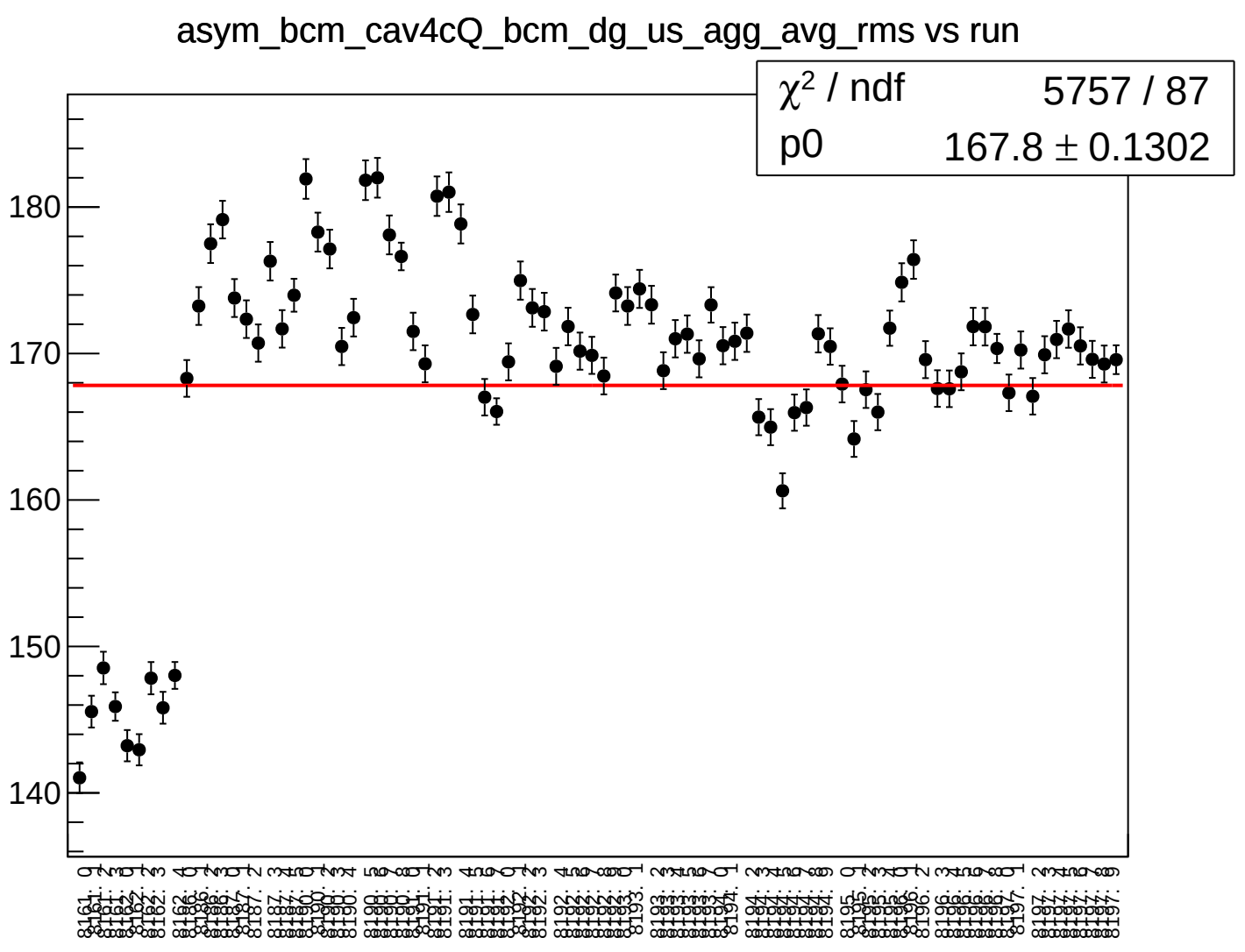

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6173 / 87
p0 167.2 ± 0.1298
180
170
160
150
140

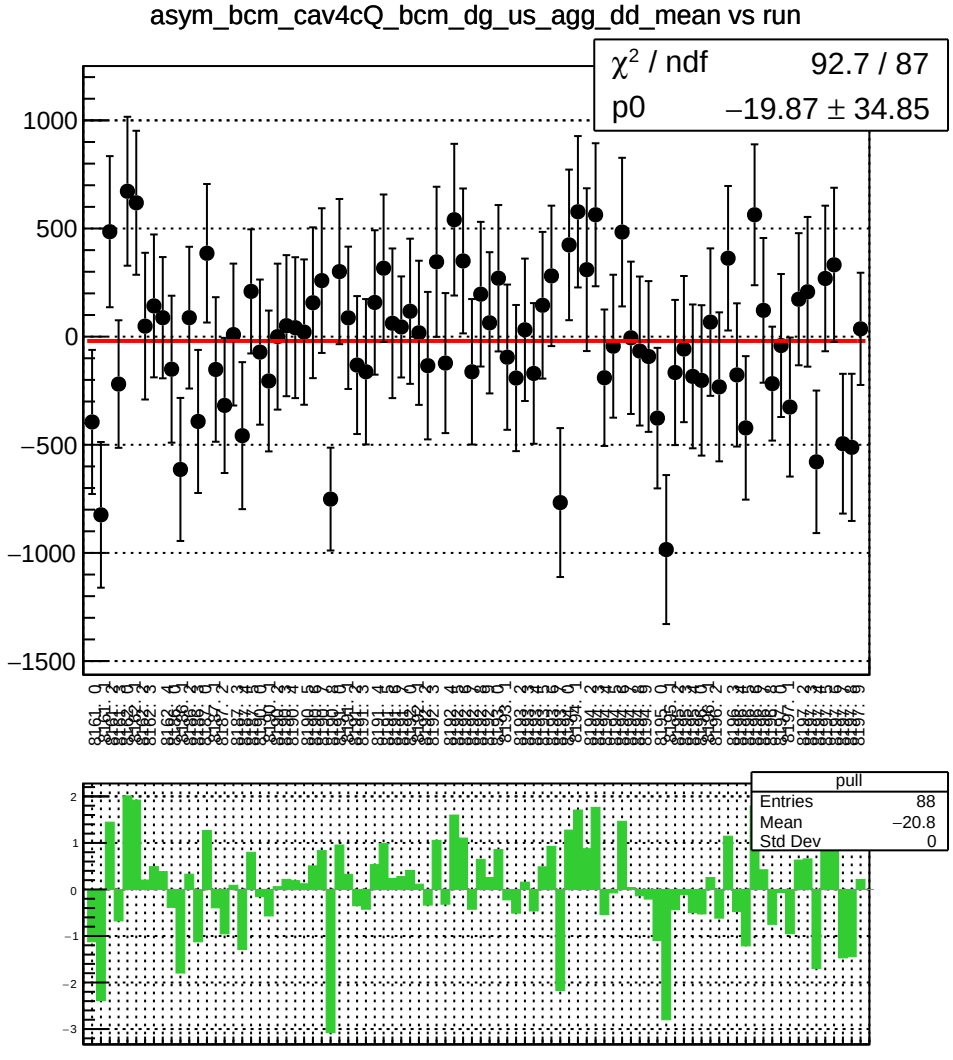

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 94.35 / 87
p0 −22.77 ± 28.31
1000
500
0
−500
−1000
pull
Entries 88
Mean −264.9
Std Dev 0
3
2
1
0
−1
−2

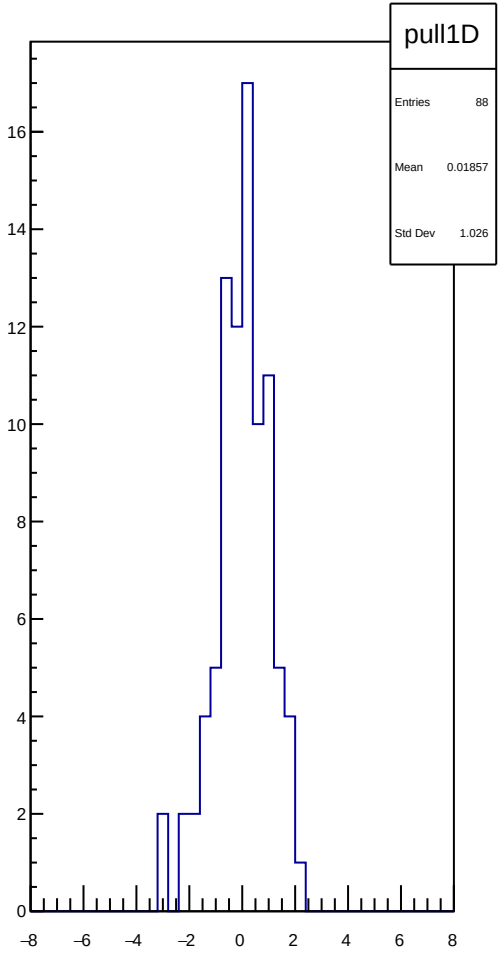

pull1D
Entries 88
Mean 0.005782
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

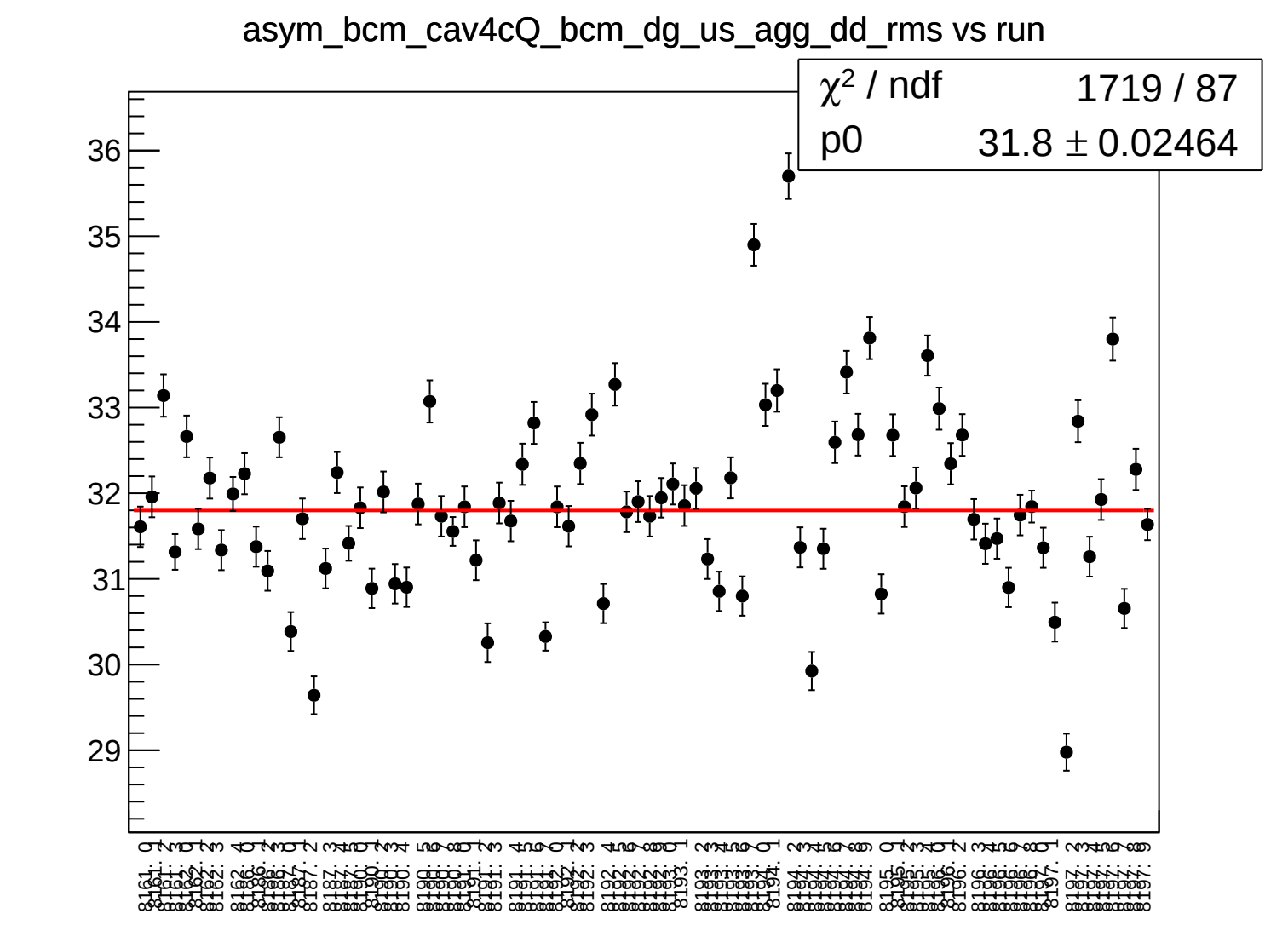

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2651 / 87
p0 25.82 ± 0.02002
29
28
27
26
25
24

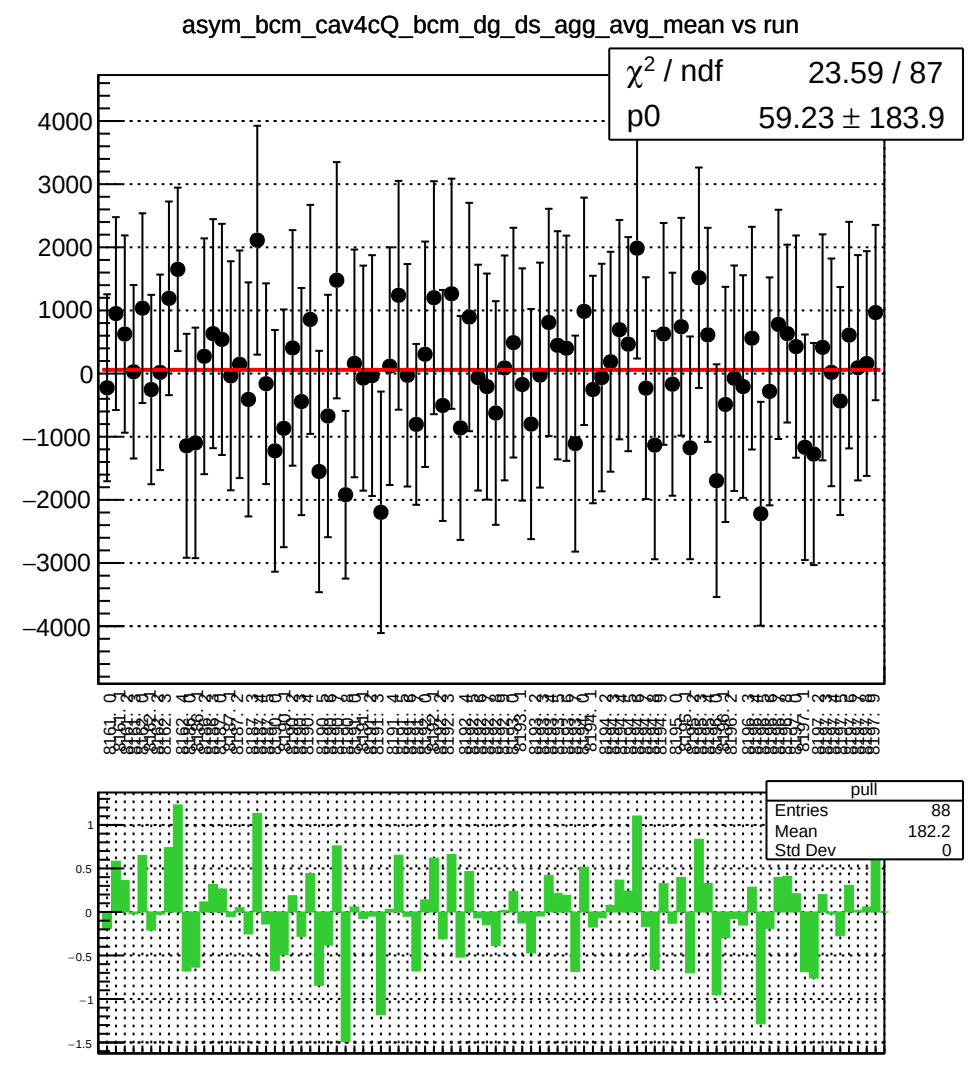

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 25.1 / 87
p0 65.52 ± 184.1
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 191.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.006799
Std Dev 0.534
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

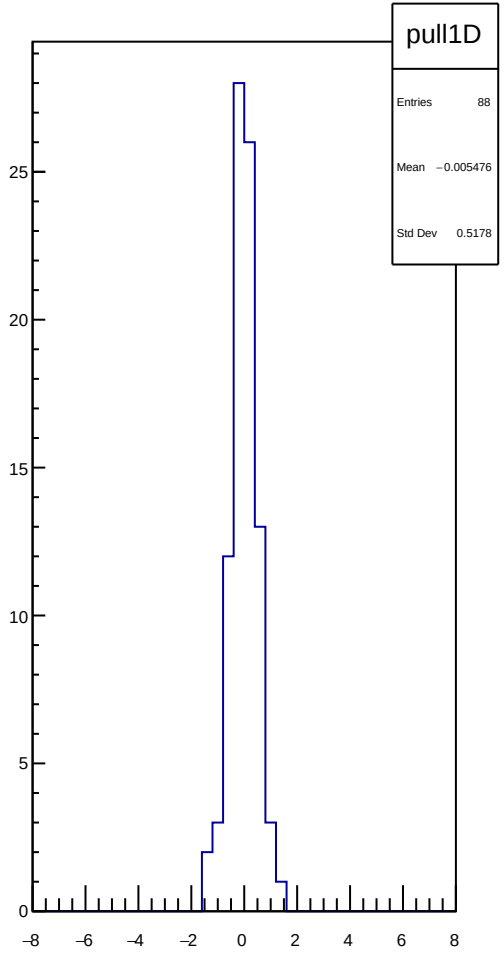

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 5757 / 87
p0 167.8 ± 0.1302
180
170
160
150
140

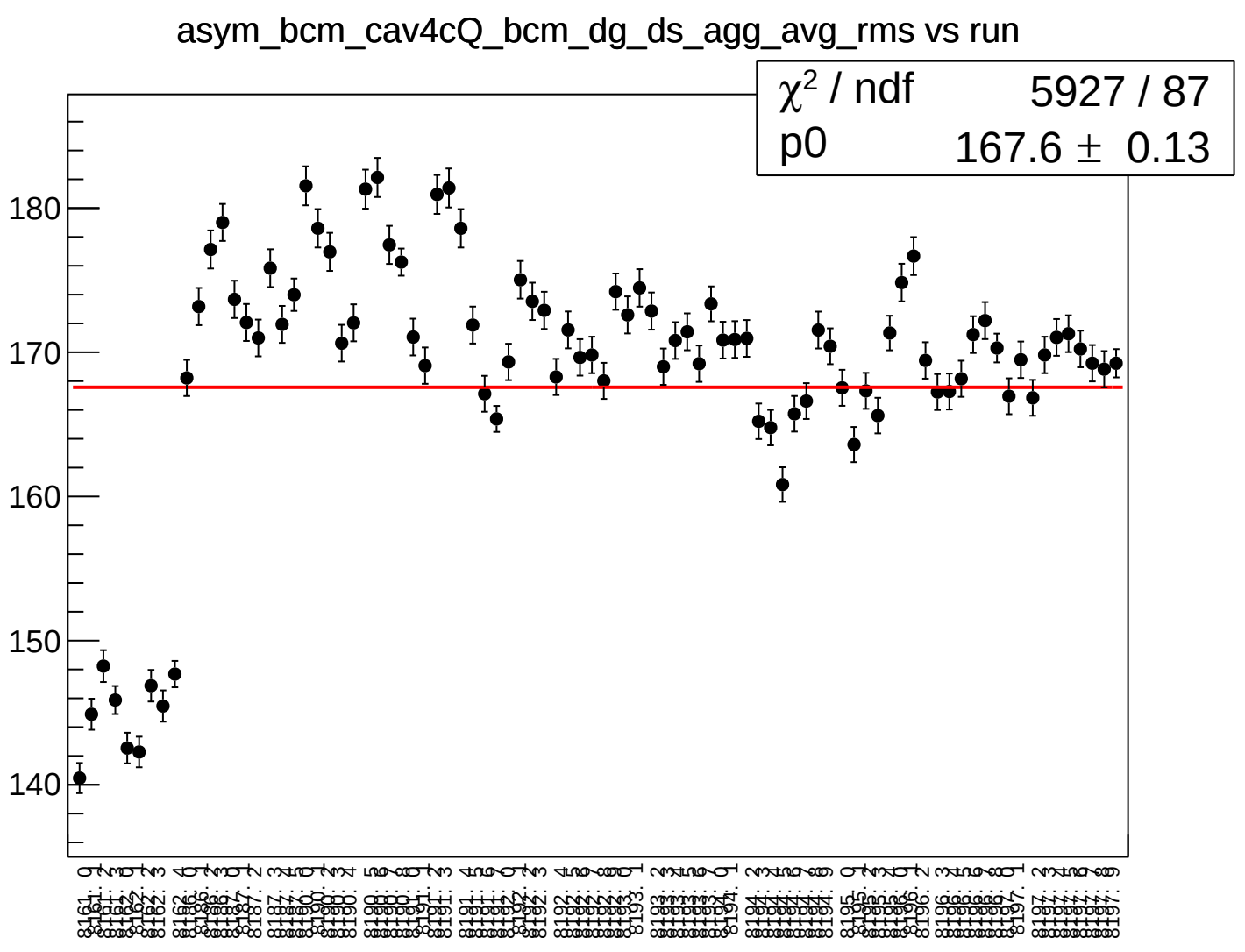

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 92.7 / 87
p0 −19.87 ± 34.85
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean −20.8
Std Dev 0
2
1
0
−1
−2
−3

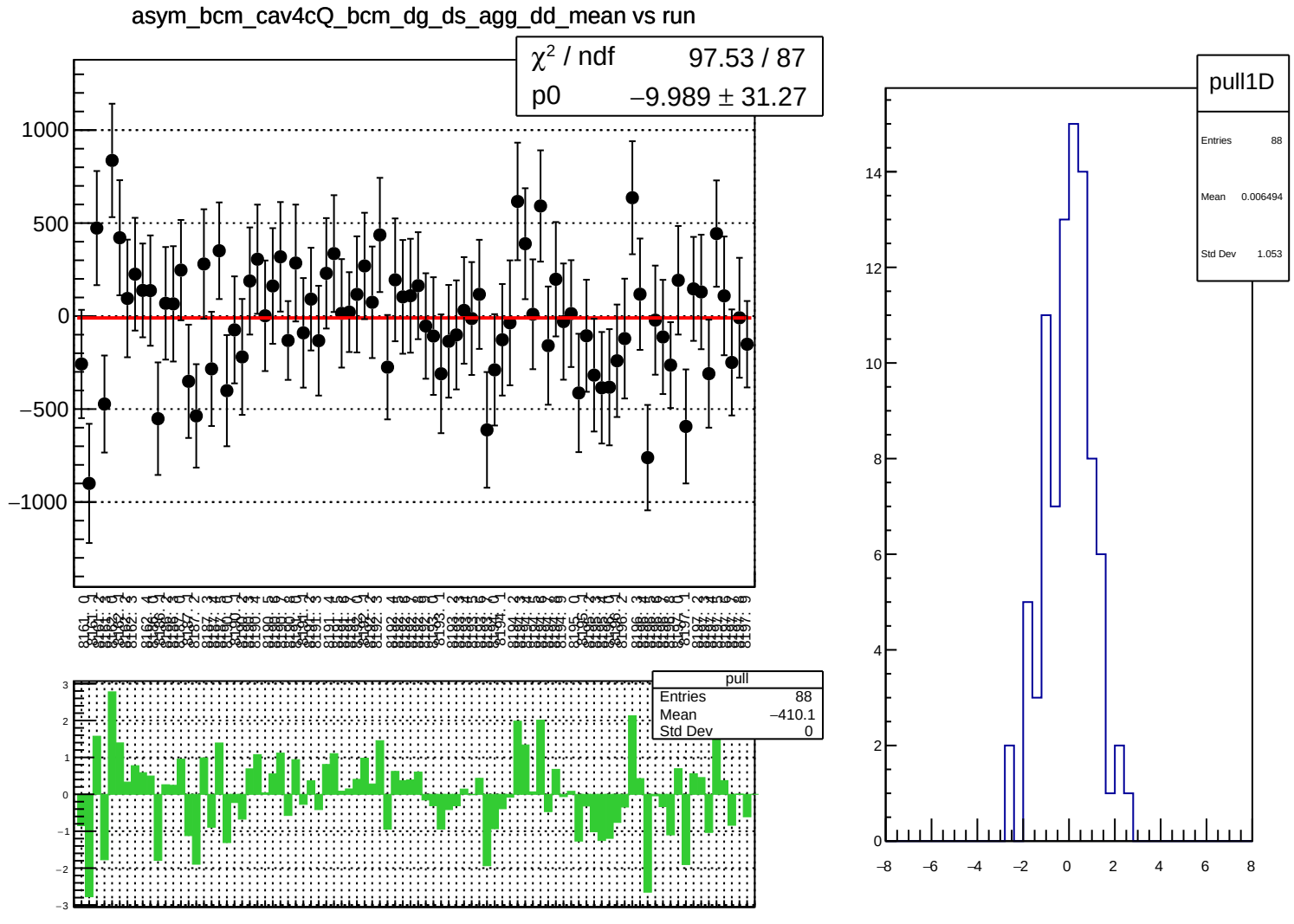

pull1D
Entries 88
Mean 0.01857
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

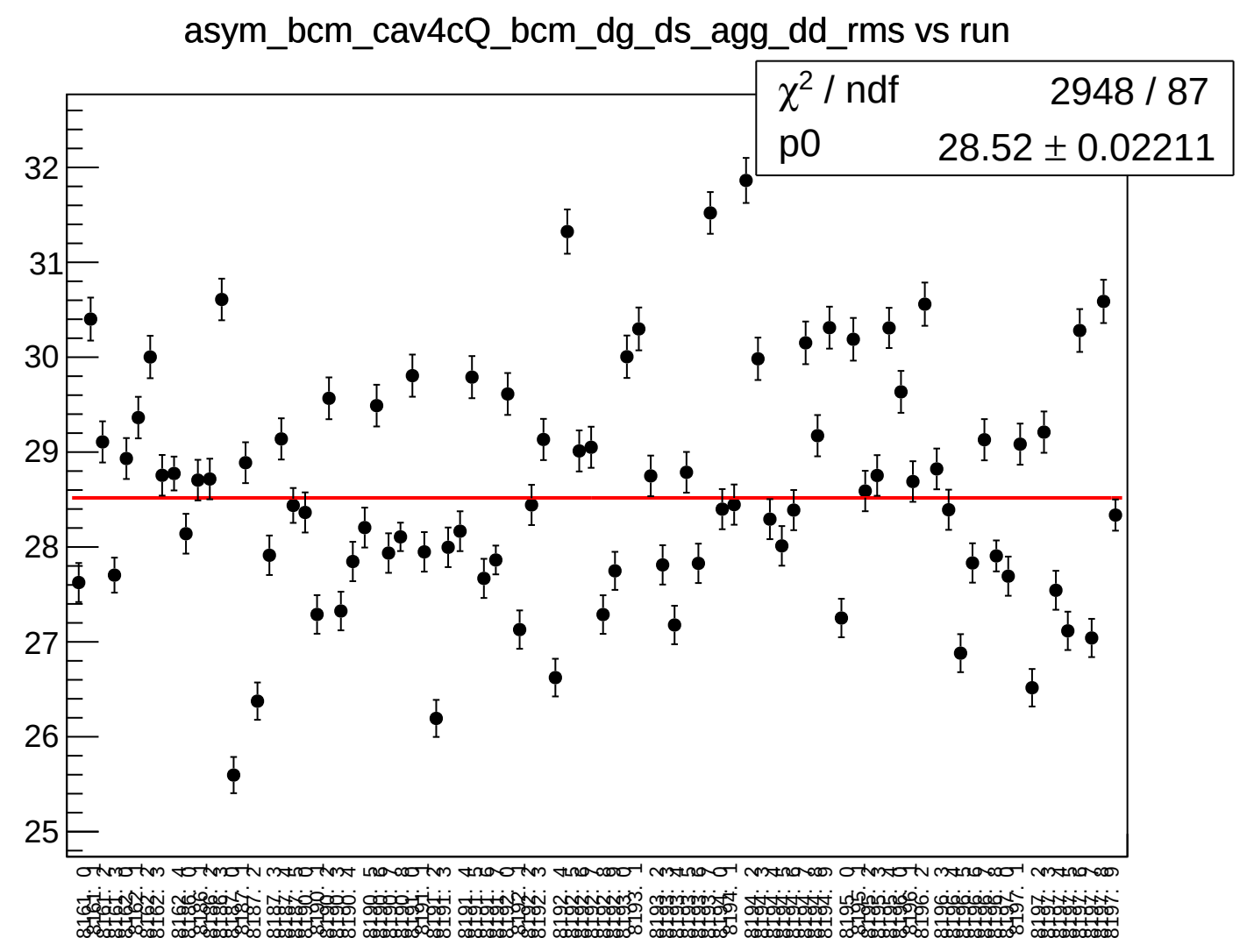

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1719 / 87
p0 31.8 ± 0.02464
36
35
34
33
32
31
30
29

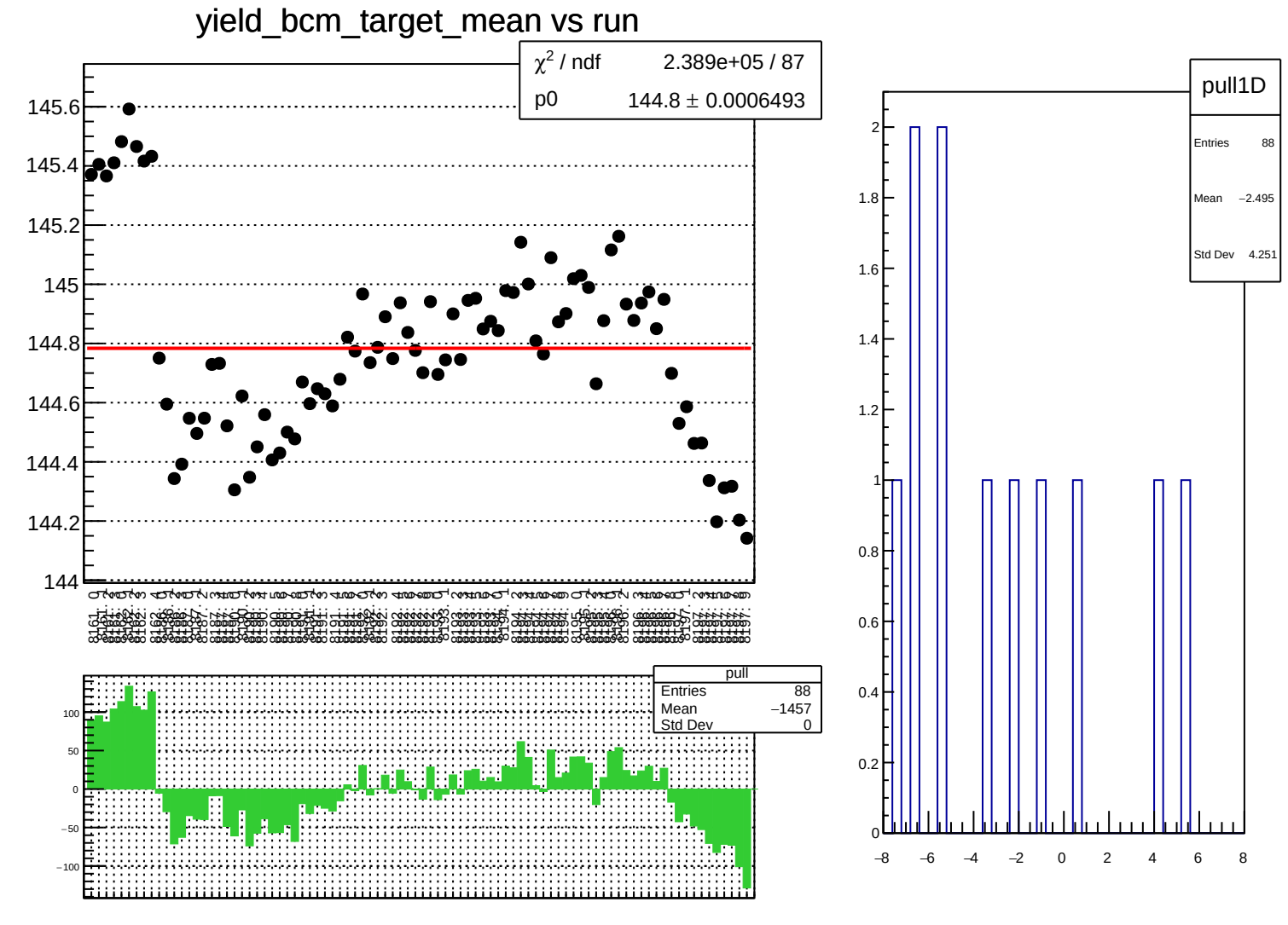

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.59 / 87
p0 59.23 ± 183.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 182.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

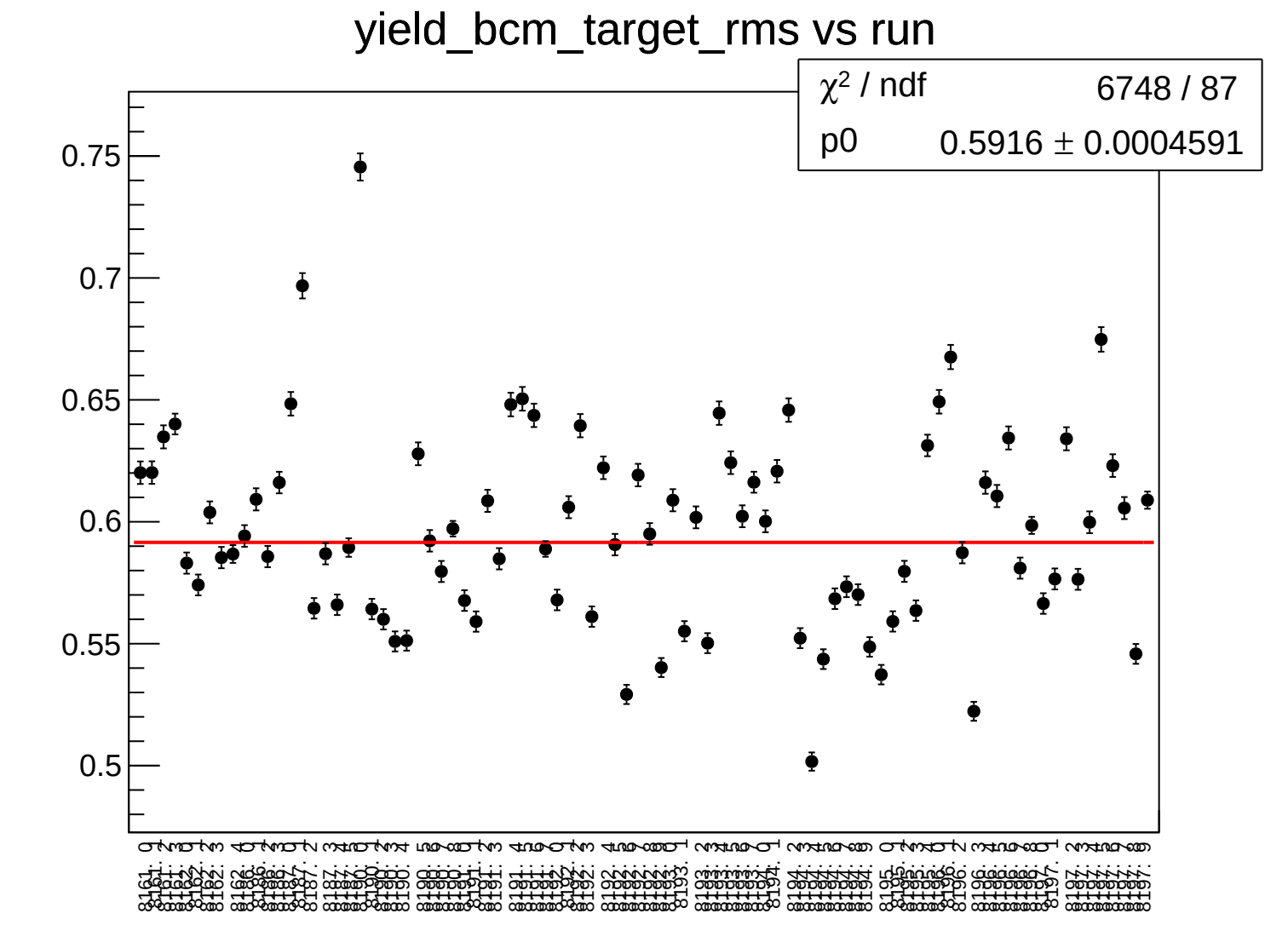

pull1D
Entries 88
Mean −0.005476
Std Dev 0.5178
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

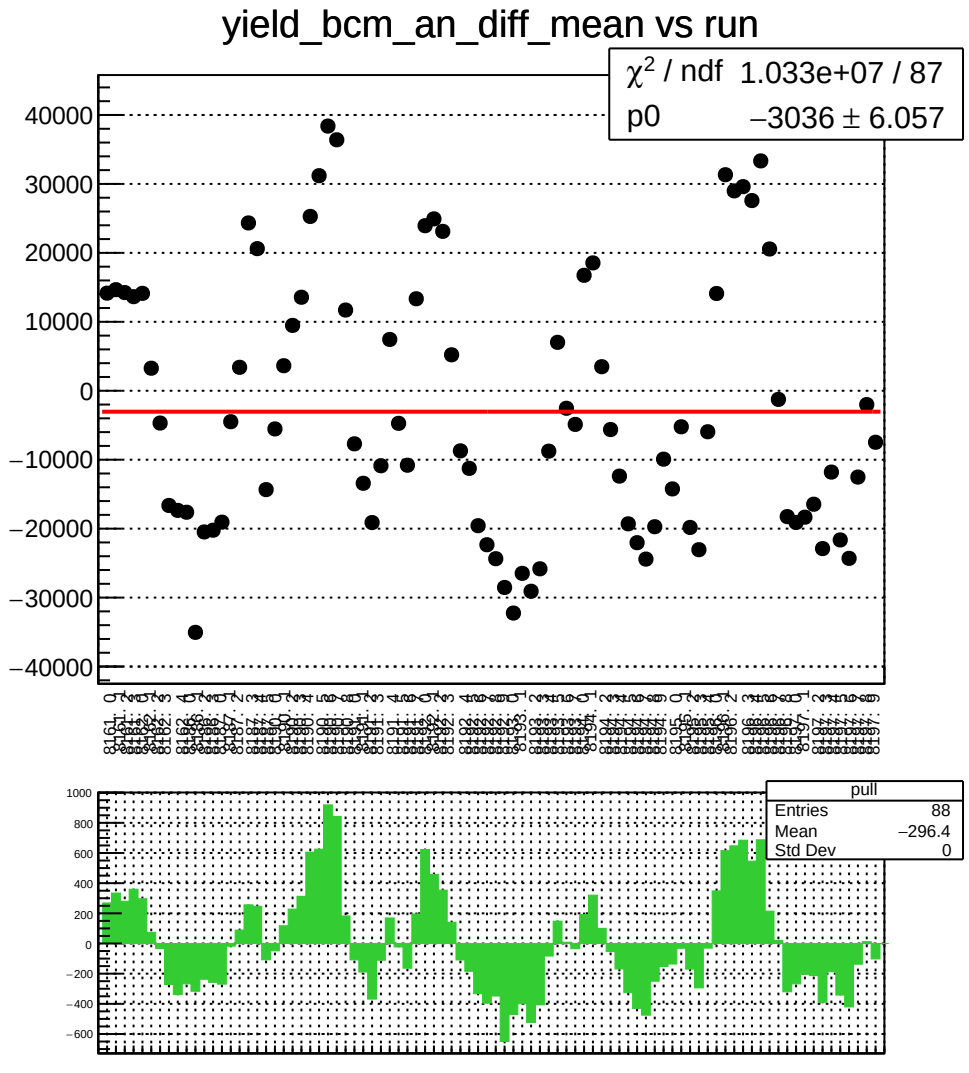

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5927 / 87
p0 167.6 ± 0.13
180
170
160
150
140

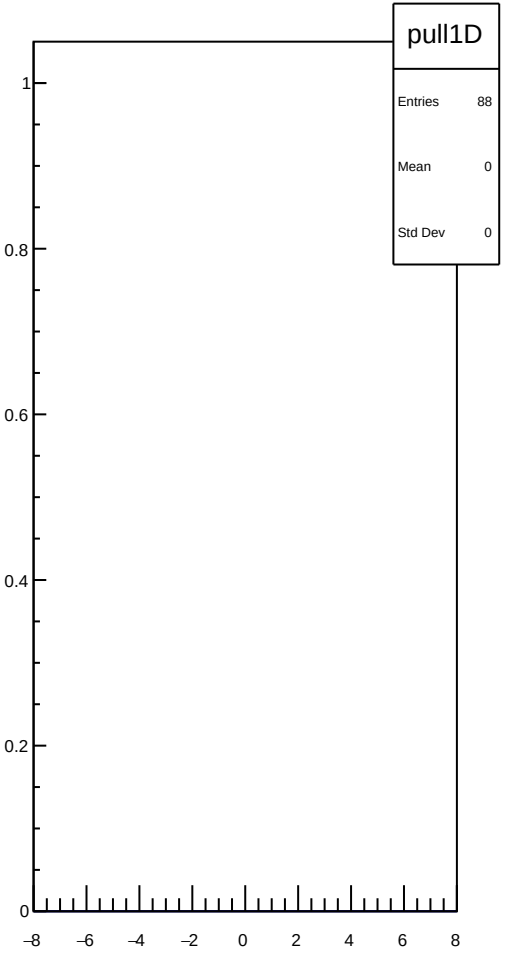

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 97.53 / 87
p0 −9.989 ± 31.27
1000
500
0
−500
−1000
pull
Entries 88
Mean −410.1
Std Dev 0
pull1D
Entries 88
Mean 0.006494
Std Dev 1.053

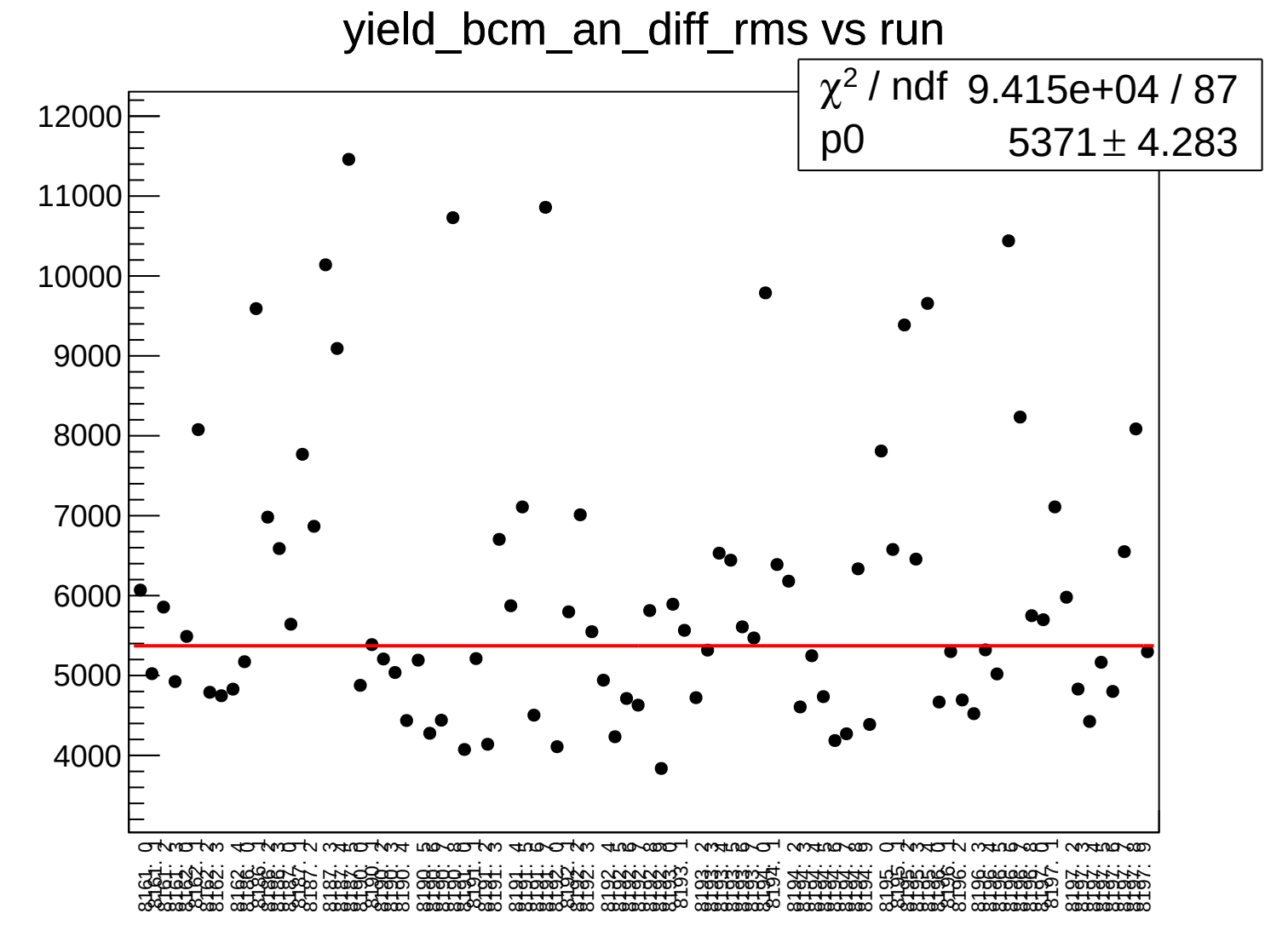

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2948 / 87
p0 28.52 ± 0.02211
32
31
30
29
28
27
26
25

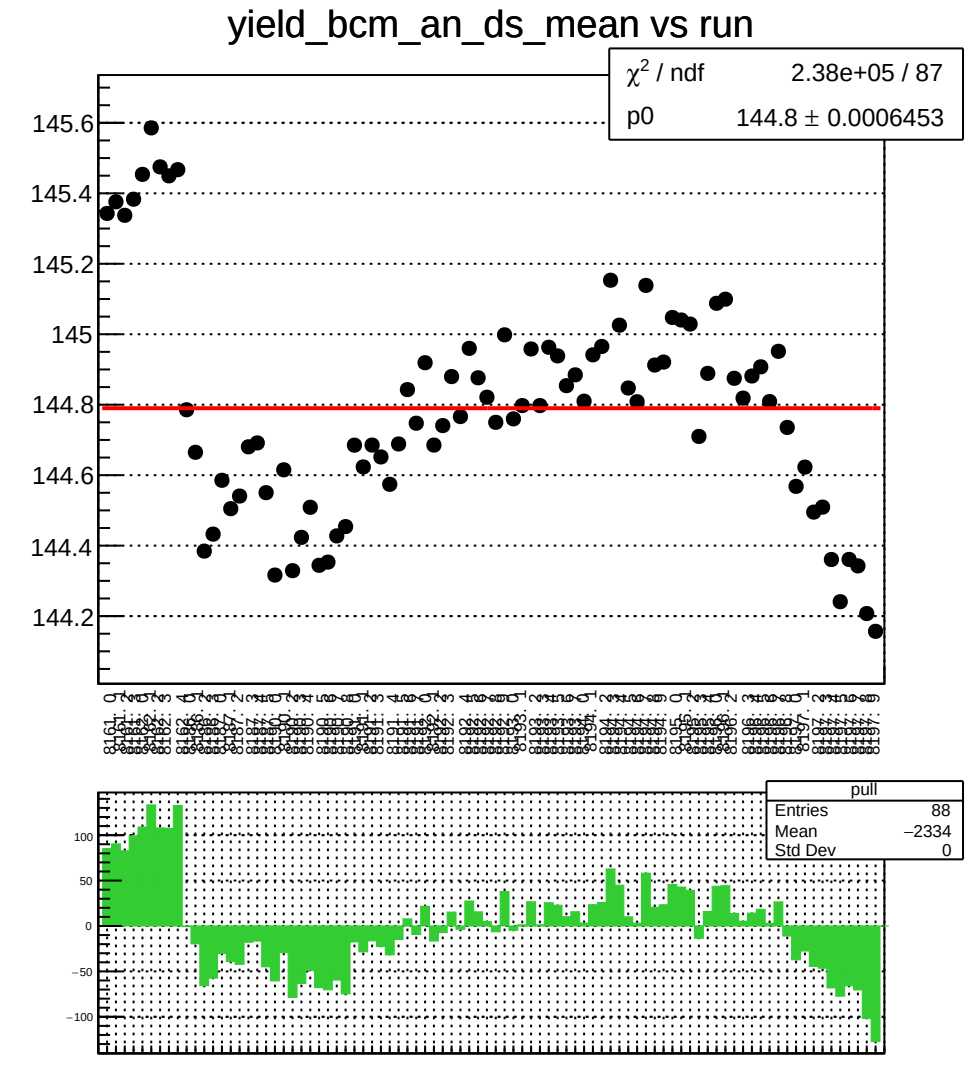

yield_bcm_target_mean vs run
χ² / ndf 2.389e+05 / 87
p0 144.8 ± 0.0006493
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 88
Mean −1457
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 88
Mean −2.495
Std Dev 4.251
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

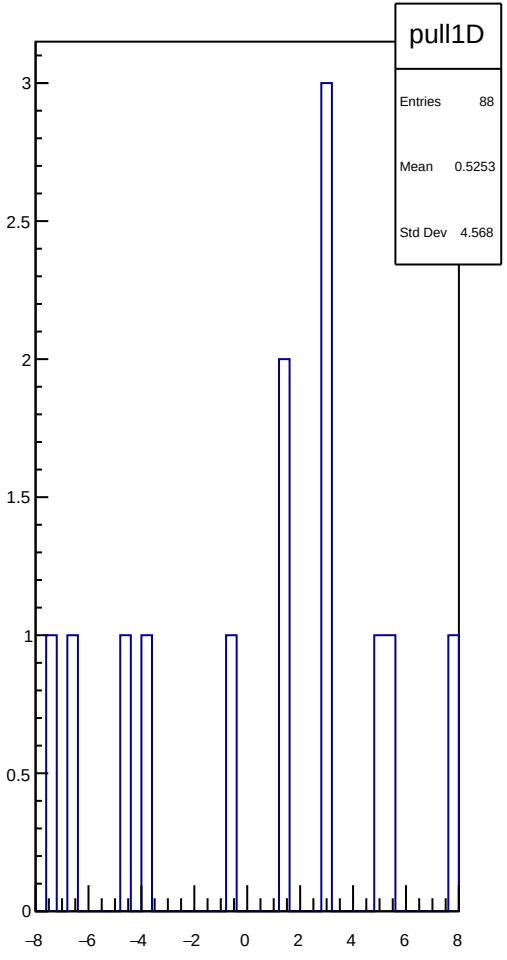

yield_bcm_target_rms vs run
χ² / ndf 6748 / 87
p0 0.5916 ± 0.0004591
0.75
0.7
0.65
0.6
0.55
0.5

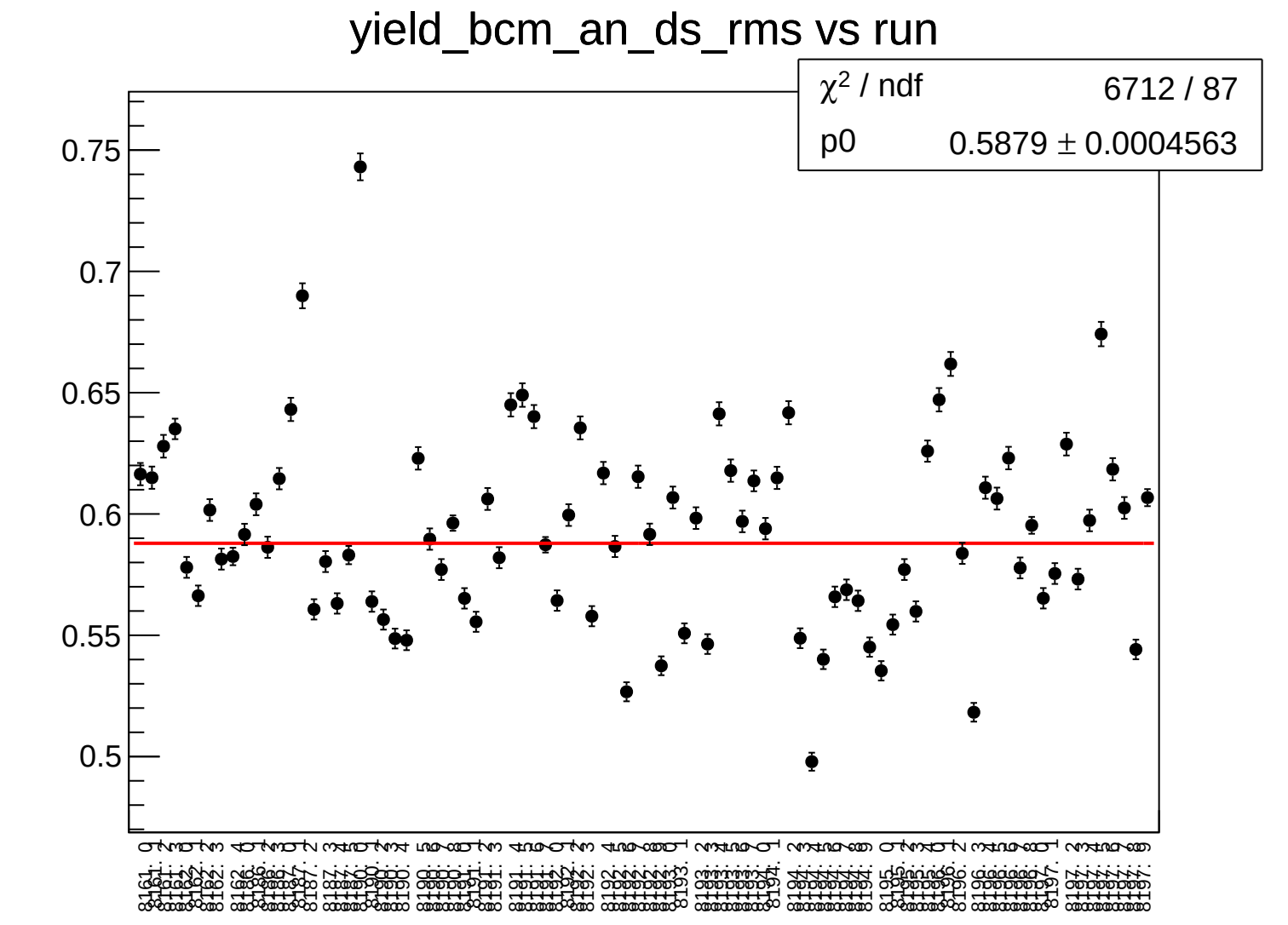

yield_bcm_an_diff_mean vs run
χ² / ndf 1.033e+07 / 87
p0 −3036 ± 6.057
pull
Entries 88
Mean −296.4
Std Dev 0

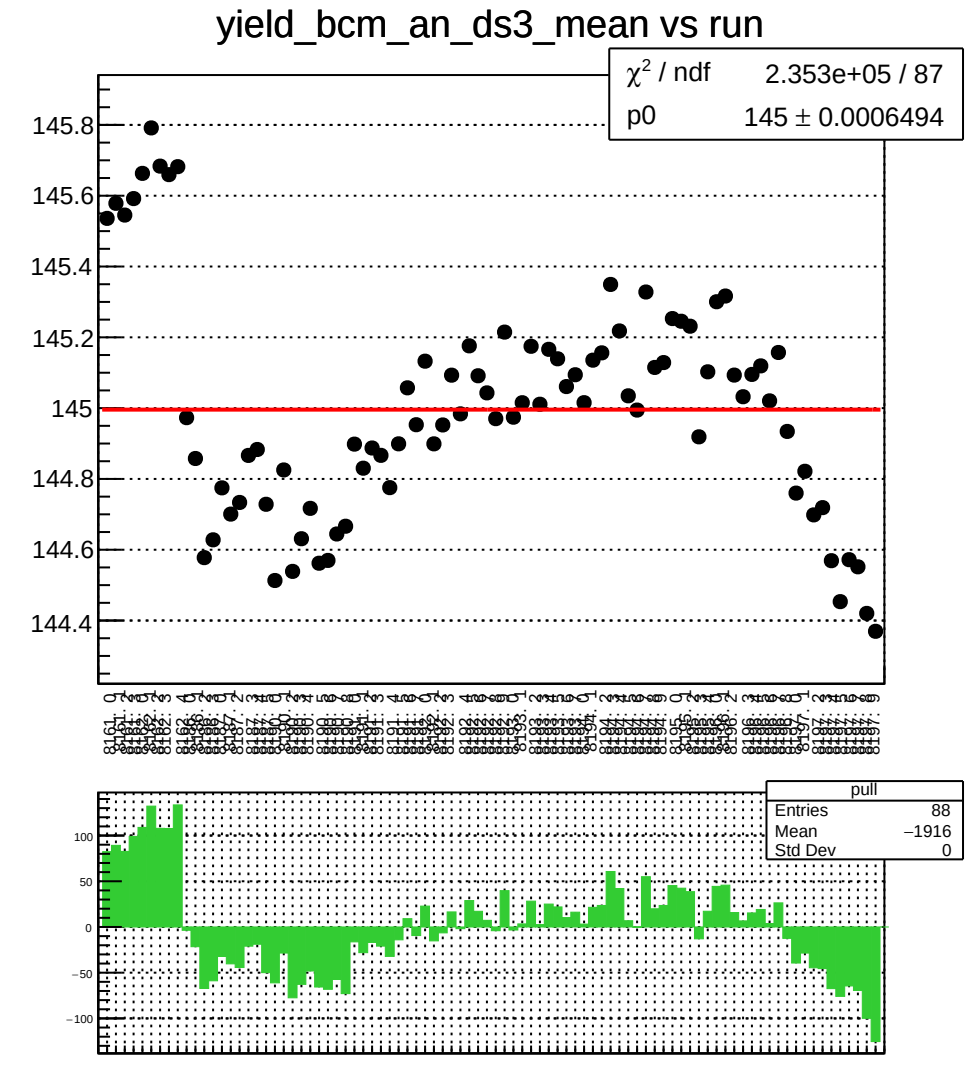

pull1D
Entries 88
Mean 0
Std Dev 0

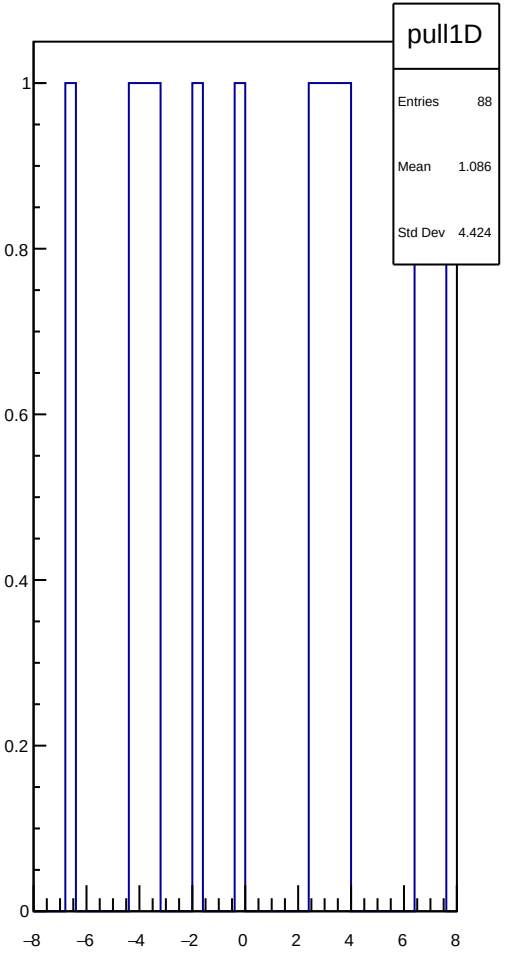

yield_bcm_an_diff_rms vs run
χ² / ndf 9.415e+04 / 87
p0 5371 ± 4.283
12000
11000
10000
9000
8000
7000
6000
5000
4000

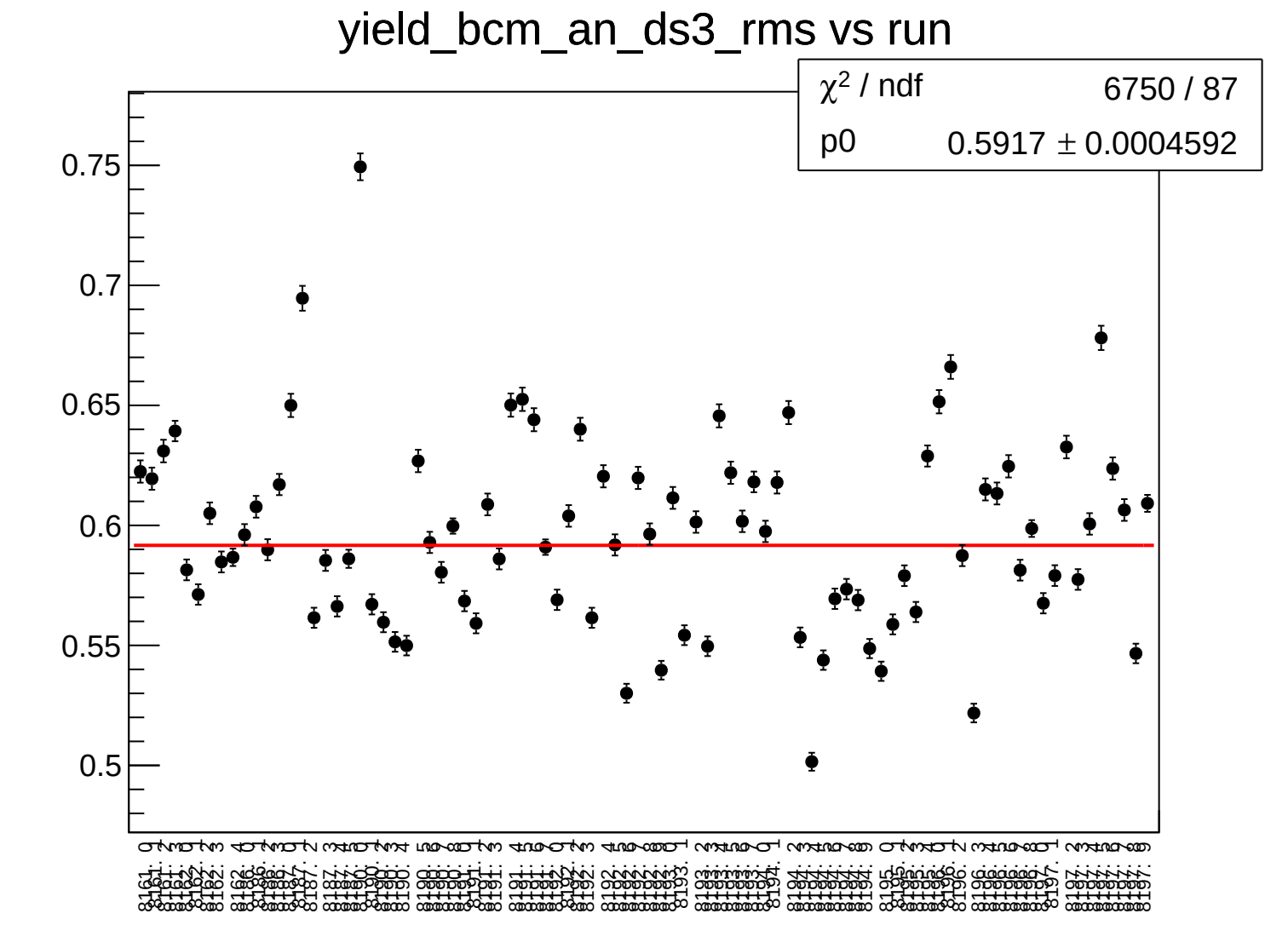

yield_bcm_an_ds_mean vs run
χ² / ndf 2.38e+05 / 87
p0 144.8 ± 0.0006453
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 88
Mean −2334
Std Dev 0
100
50
0
−50
−100

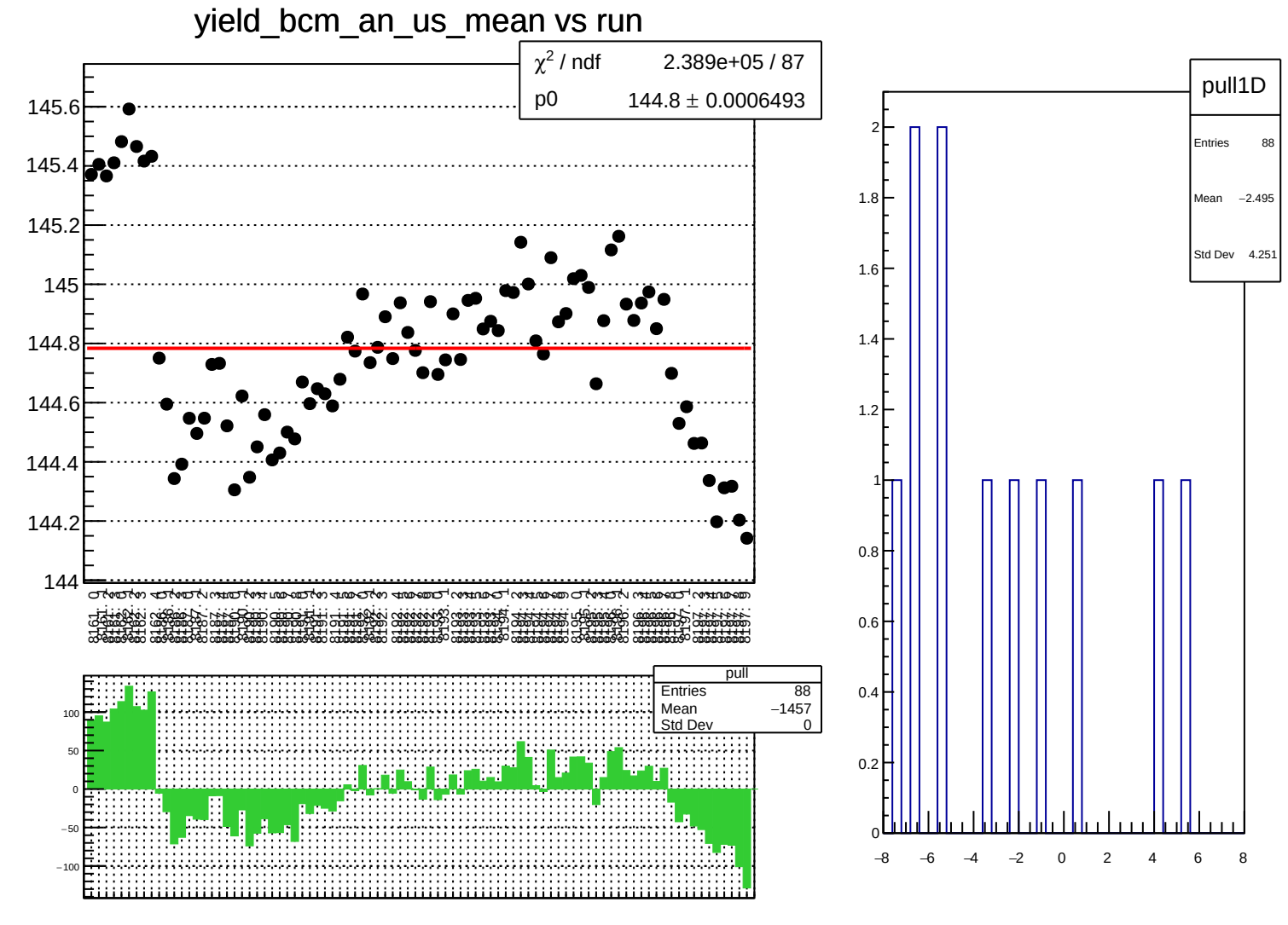

pull1D
Entries 88
Mean 0.5253
Std Dev 4.568
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

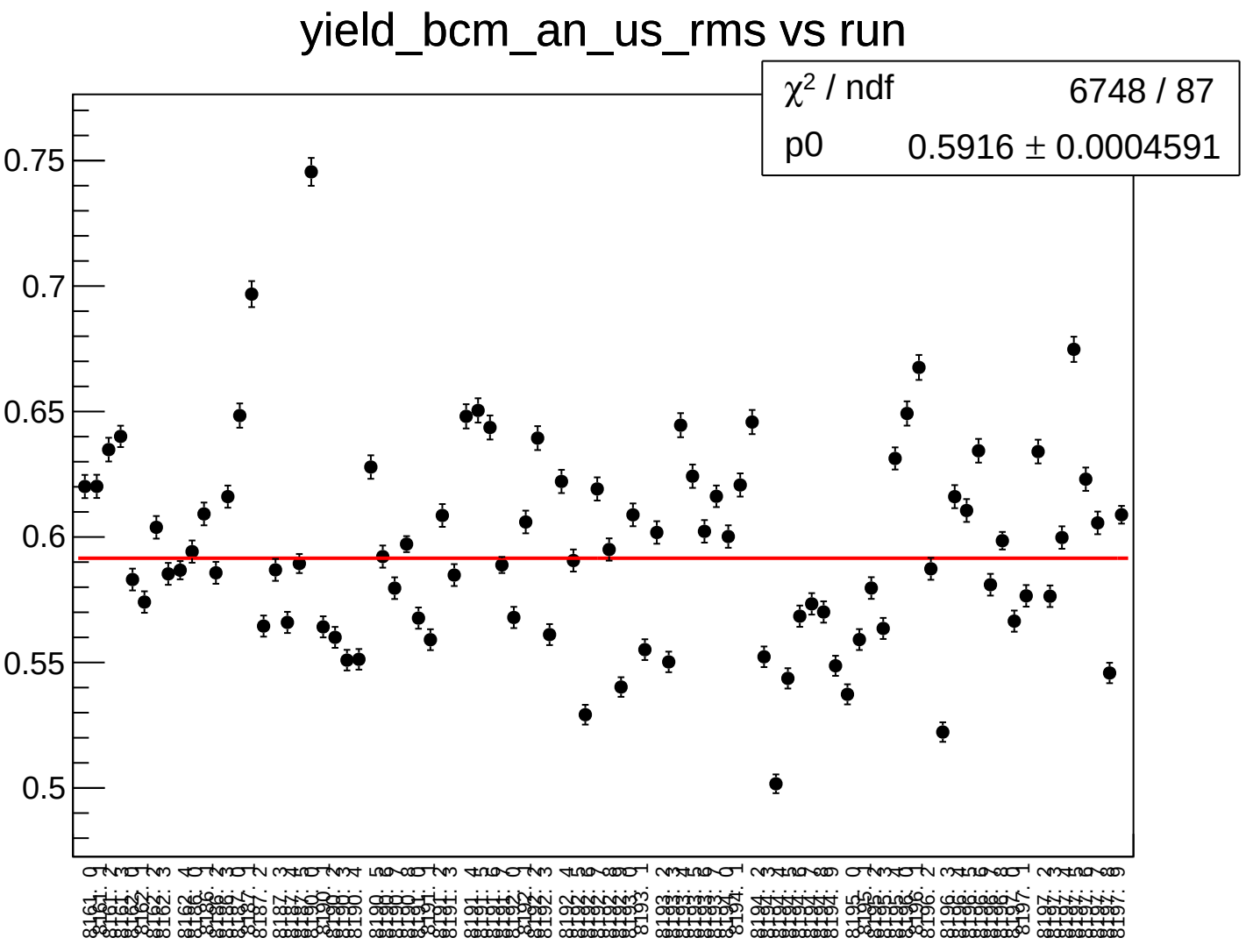

yield_bcm_an_ds_rms vs run
χ² / ndf 6712 / 87
p0 0.5879 ± 0.0004563
0.75
0.7
0.65
0.6
0.55
0.5

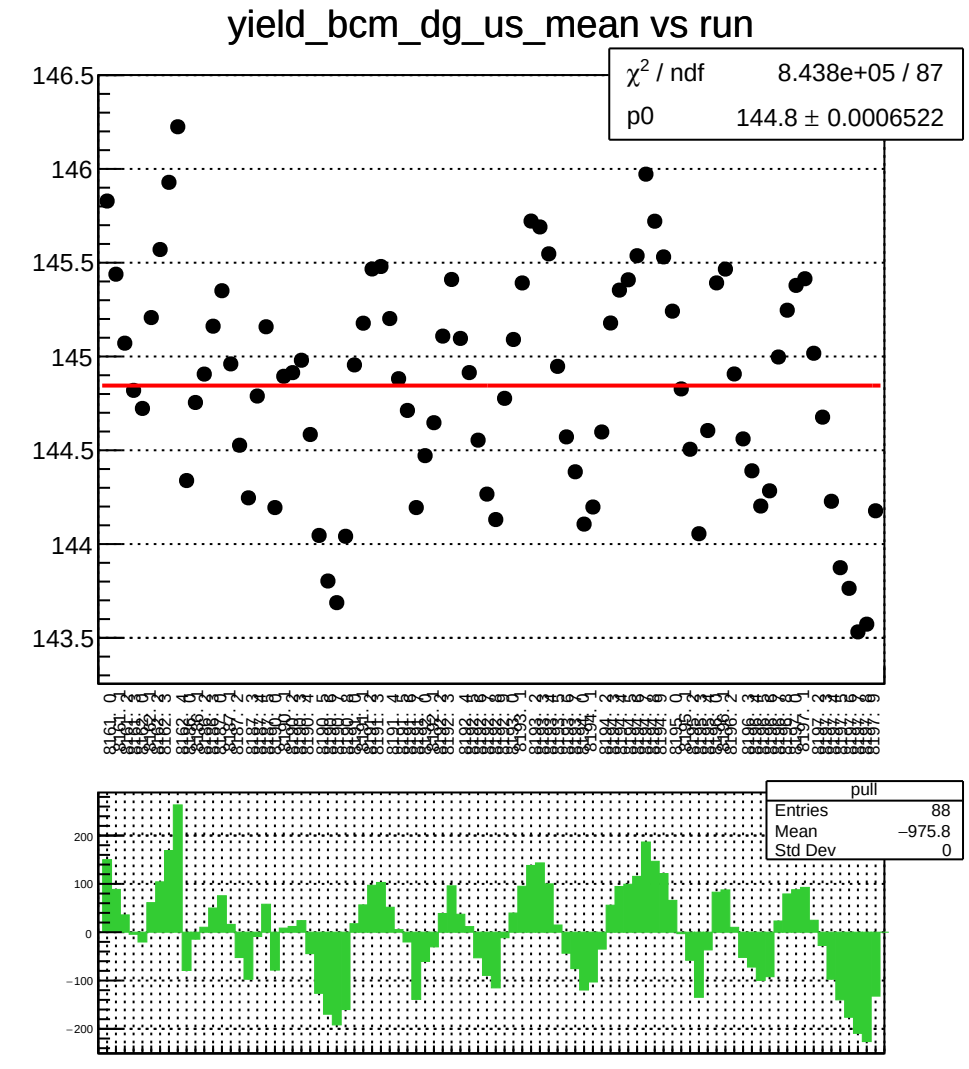

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.353e+05 / 87
p0 145 ± 0.0006494
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 88
Mean −1916
Std Dev 0
100
50
0
−50
−100

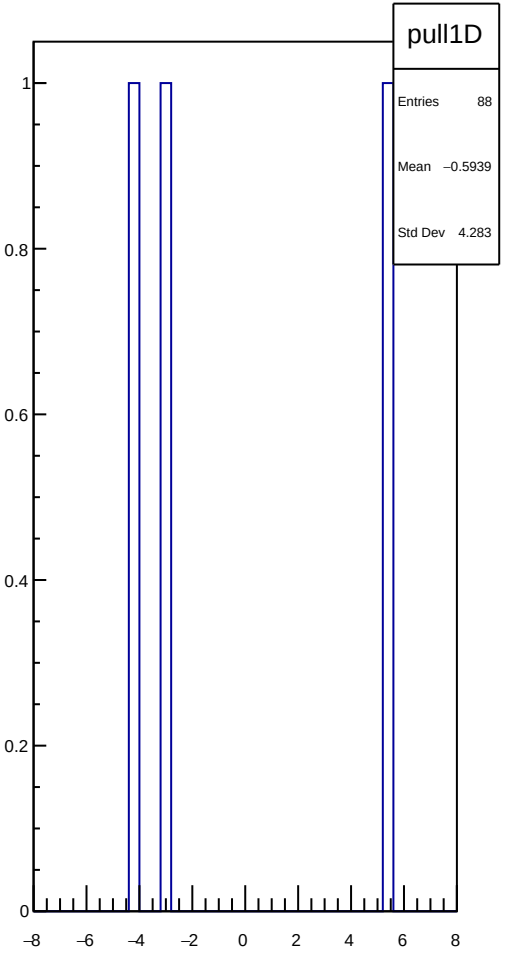

pull1D
Entries 88
Mean 1.086
Std Dev 4.424
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

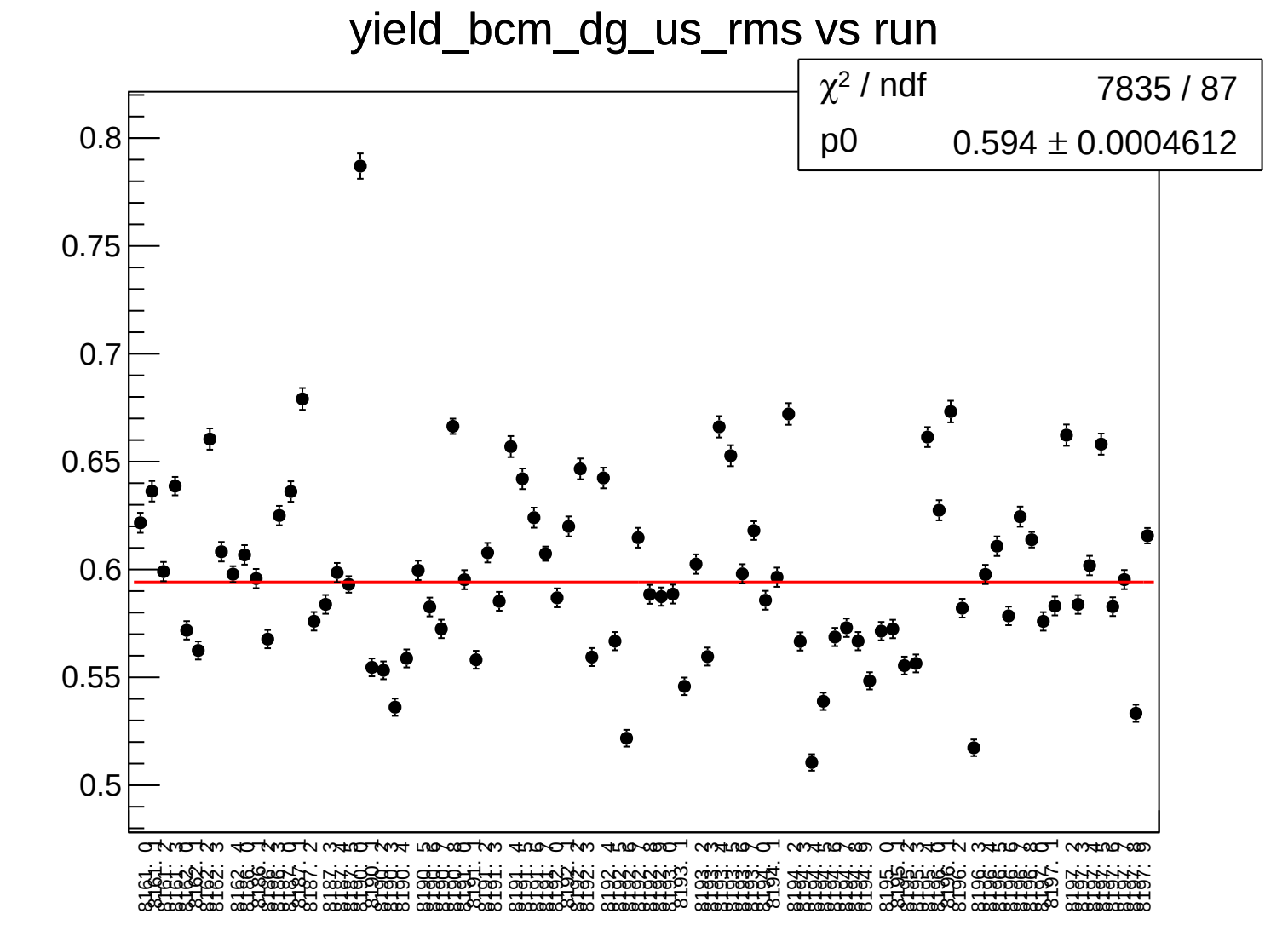

yield_bcm_an_ds3_rms vs run
χ² / ndf 6750 / 87
p0 0.5917 ± 0.0004592
0.75
0.7
0.65
0.6
0.55
0.5

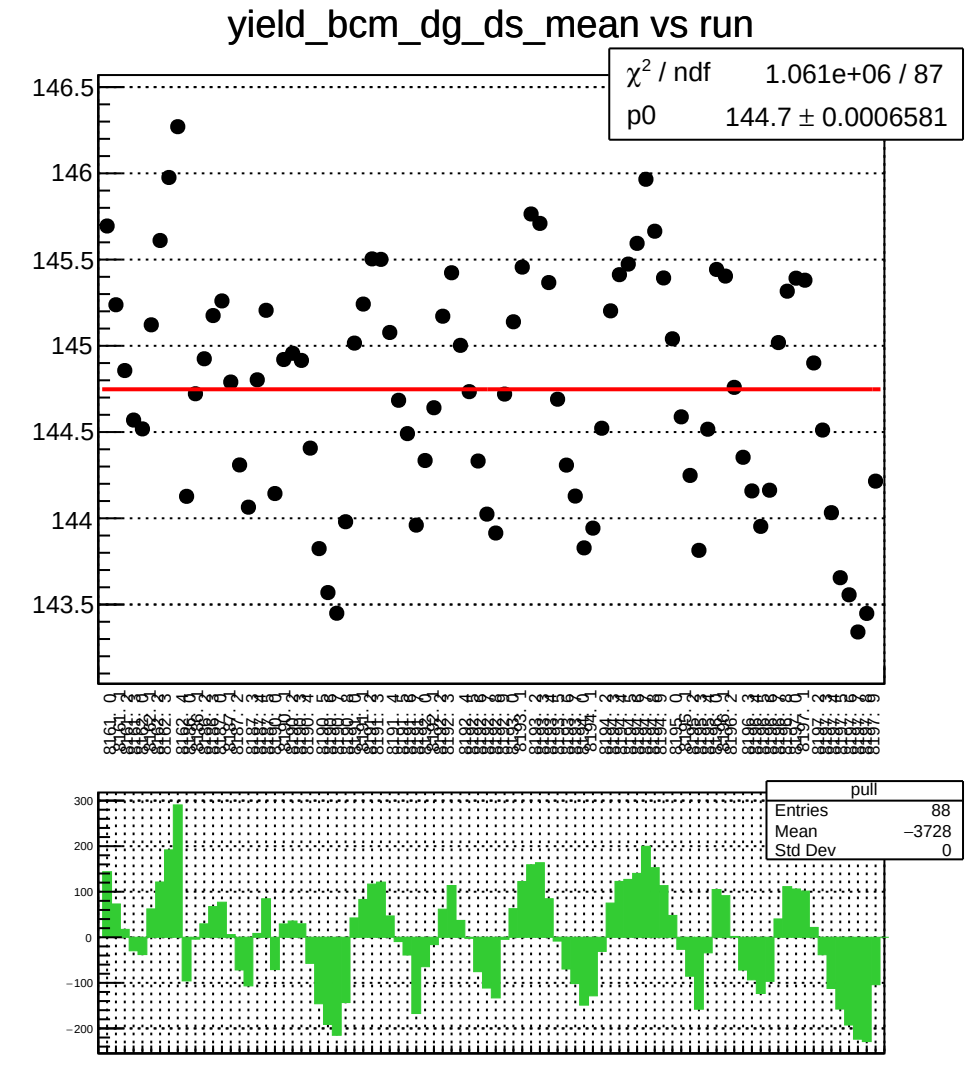

yield_bcm_an_us_mean vs run
χ² / ndf 2.389e+05 / 87
p0 144.8 ± 0.0006493
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 88
Mean −1457
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 88
Mean −2.495
Std Dev 4.251
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

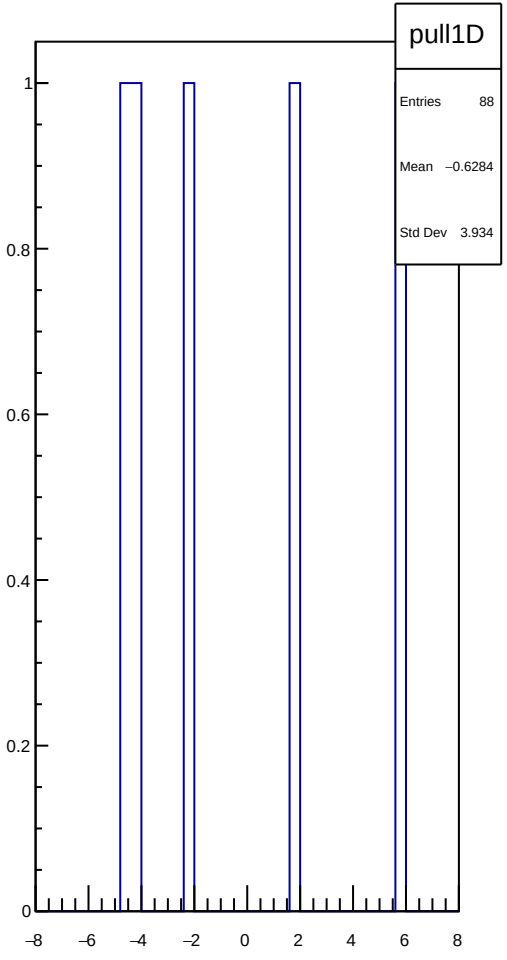

yield_bcm_an_us_rms vs run
χ² / ndf 6748 / 87
p0 0.5916 ± 0.0004591
0.75
0.7
0.65
0.6
0.55
0.5

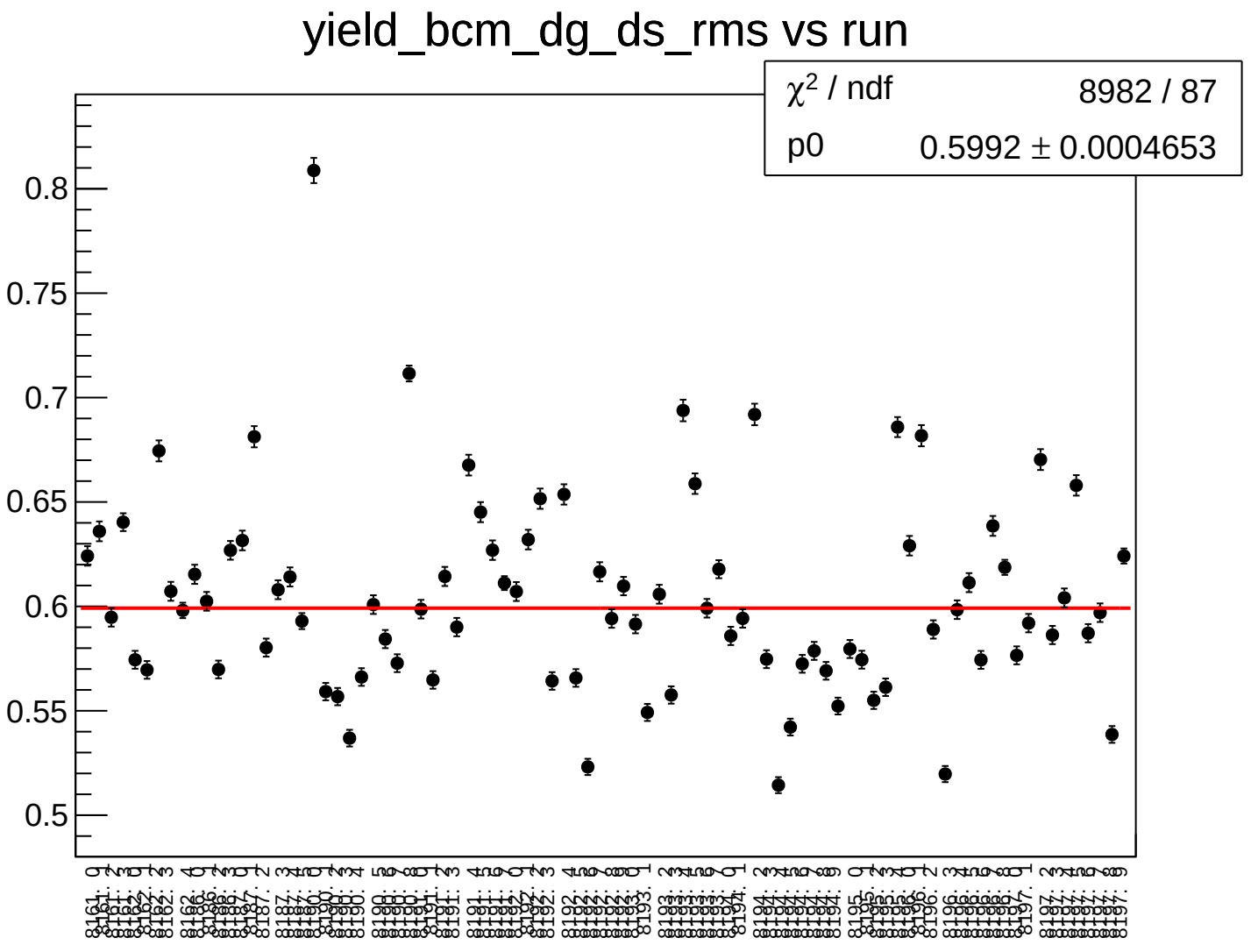

yield_bcm_dg_us_mean vs run
χ² / ndf 8.438e+05 / 87
p0 144.8 ± 0.0006522
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 88
Mean −975.8
Std Dev 0
200
100
0
−100
−200

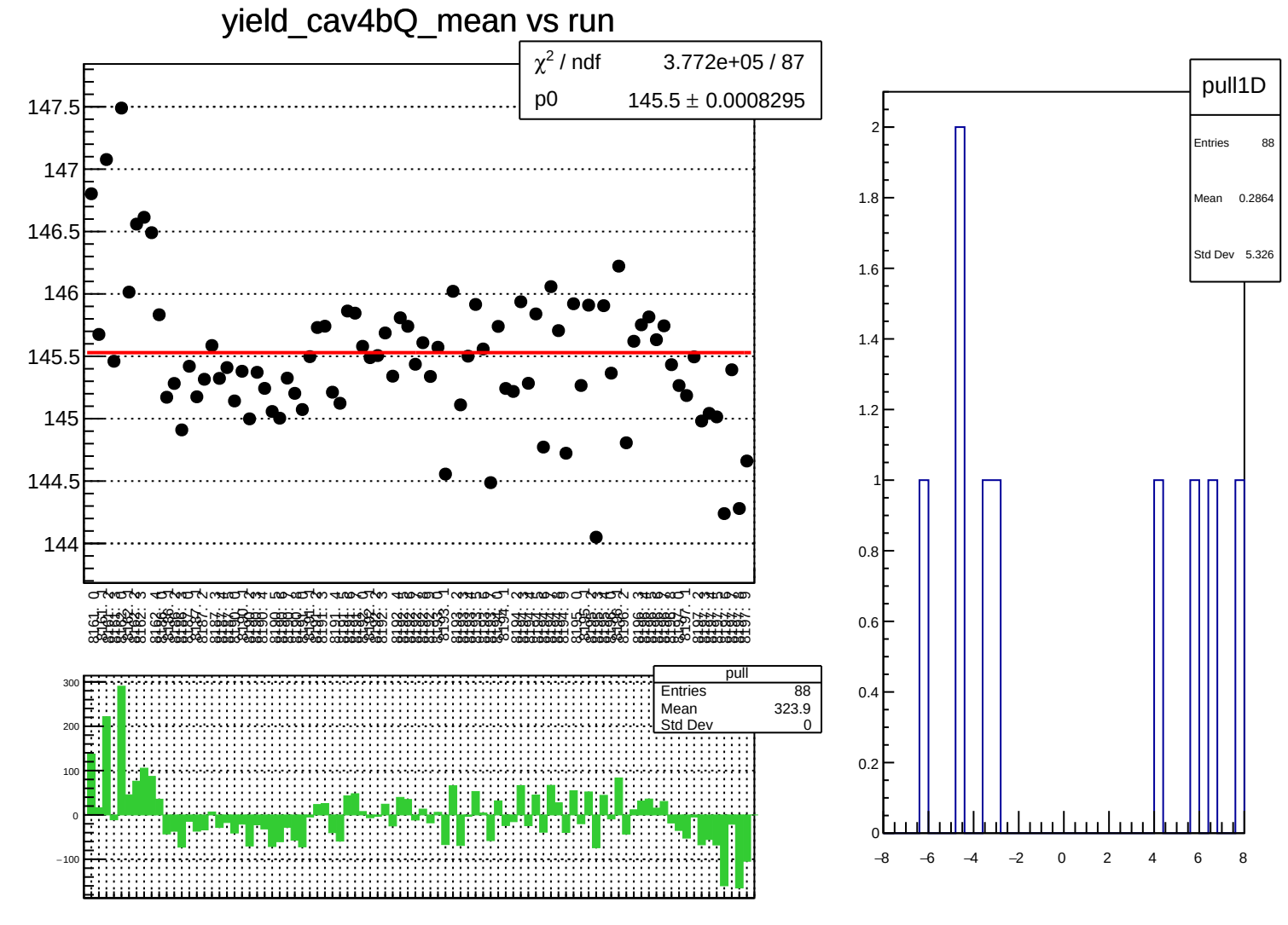

pull1D
Entries 88
Mean −0.5939
Std Dev 4.283
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

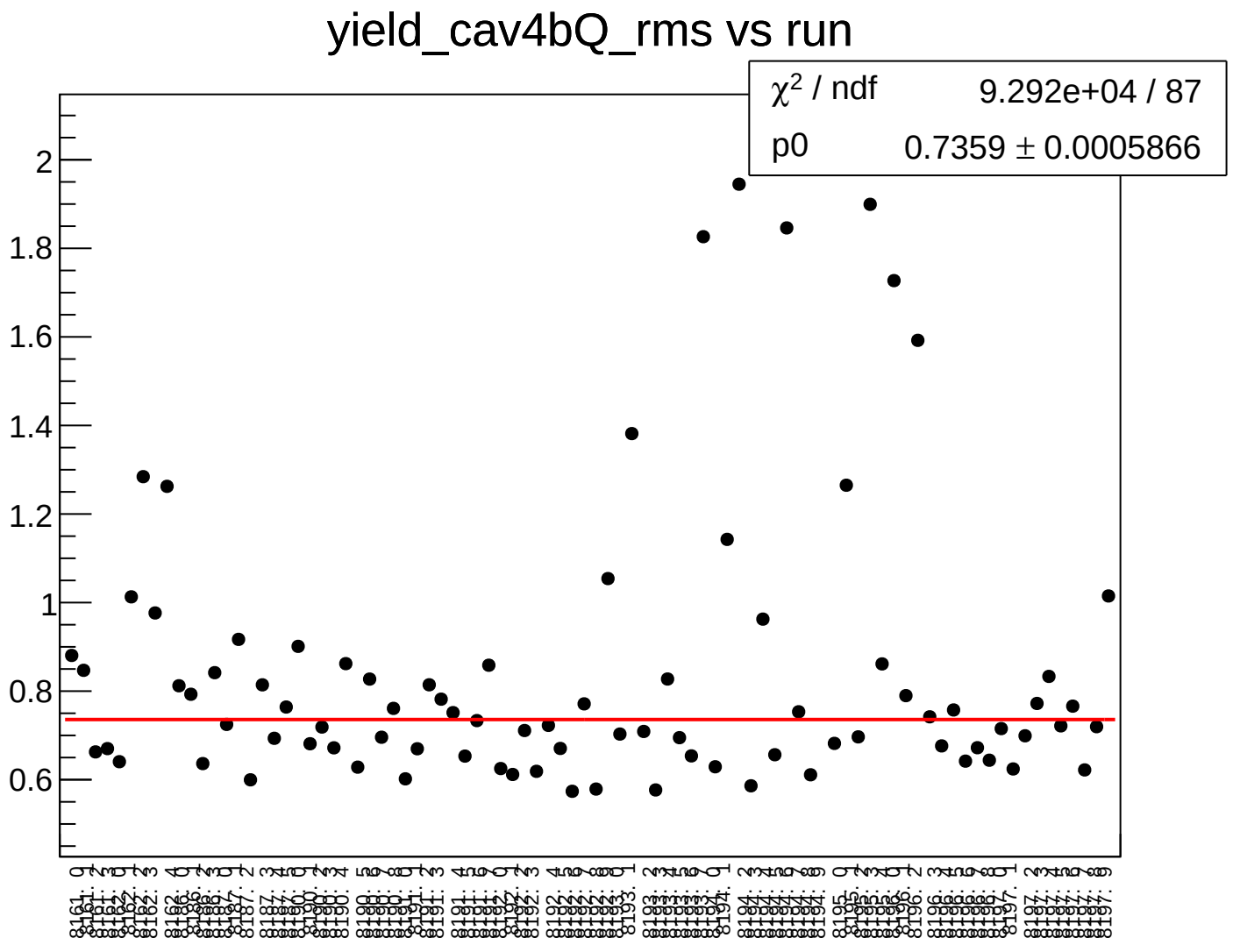

yield_bcm_dg_us_rms vs run
χ² / ndf 7835 / 87
p0 0.594 ± 0.0004612
0.8
0.75
0.7
0.65
0.6
0.55
0.5

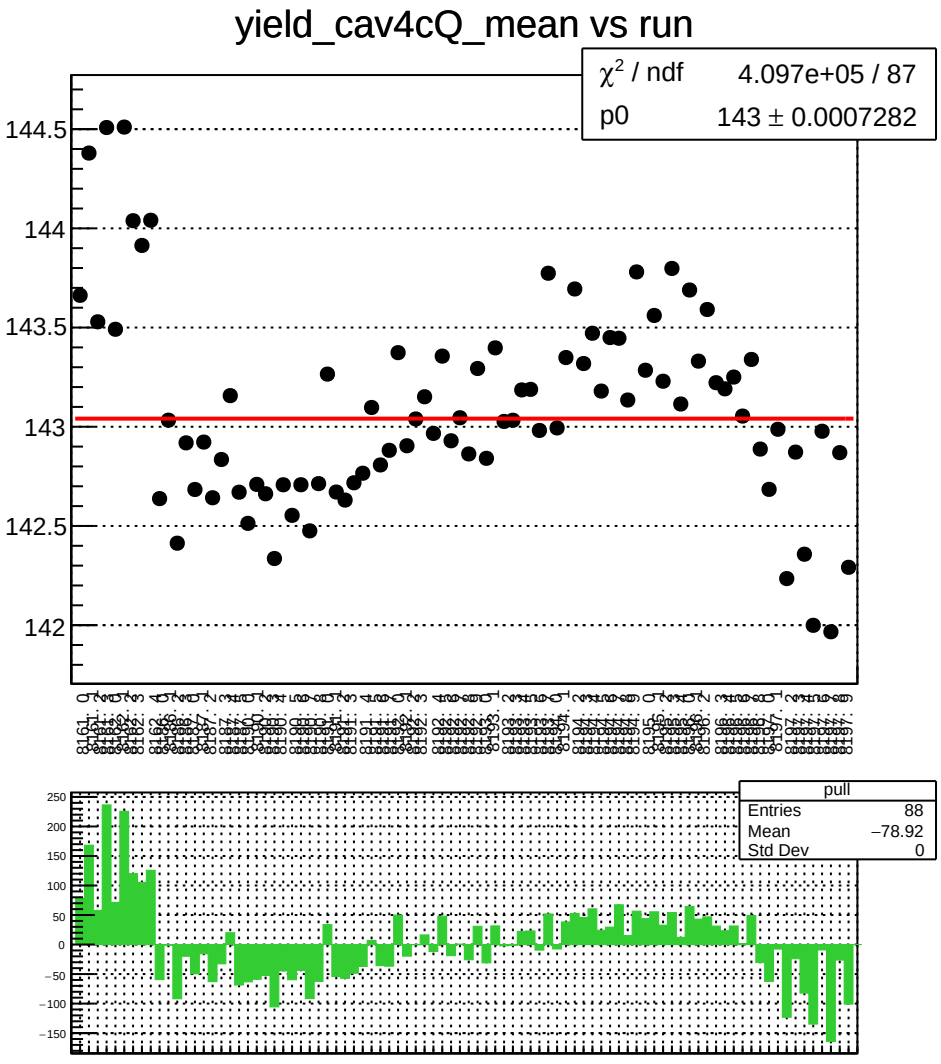

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.061e+06 / 87
p0 144.7 ± 0.0006581
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 88
Mean −3728
Std Dev 0
300
200
100
0
−100
−200

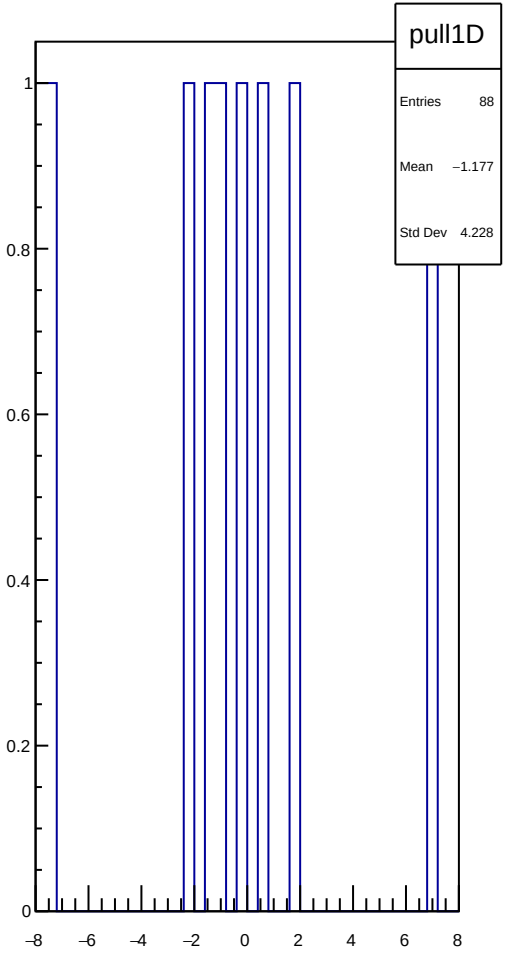

pull1D
Entries 88
Mean −0.6284
Std Dev 3.934
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

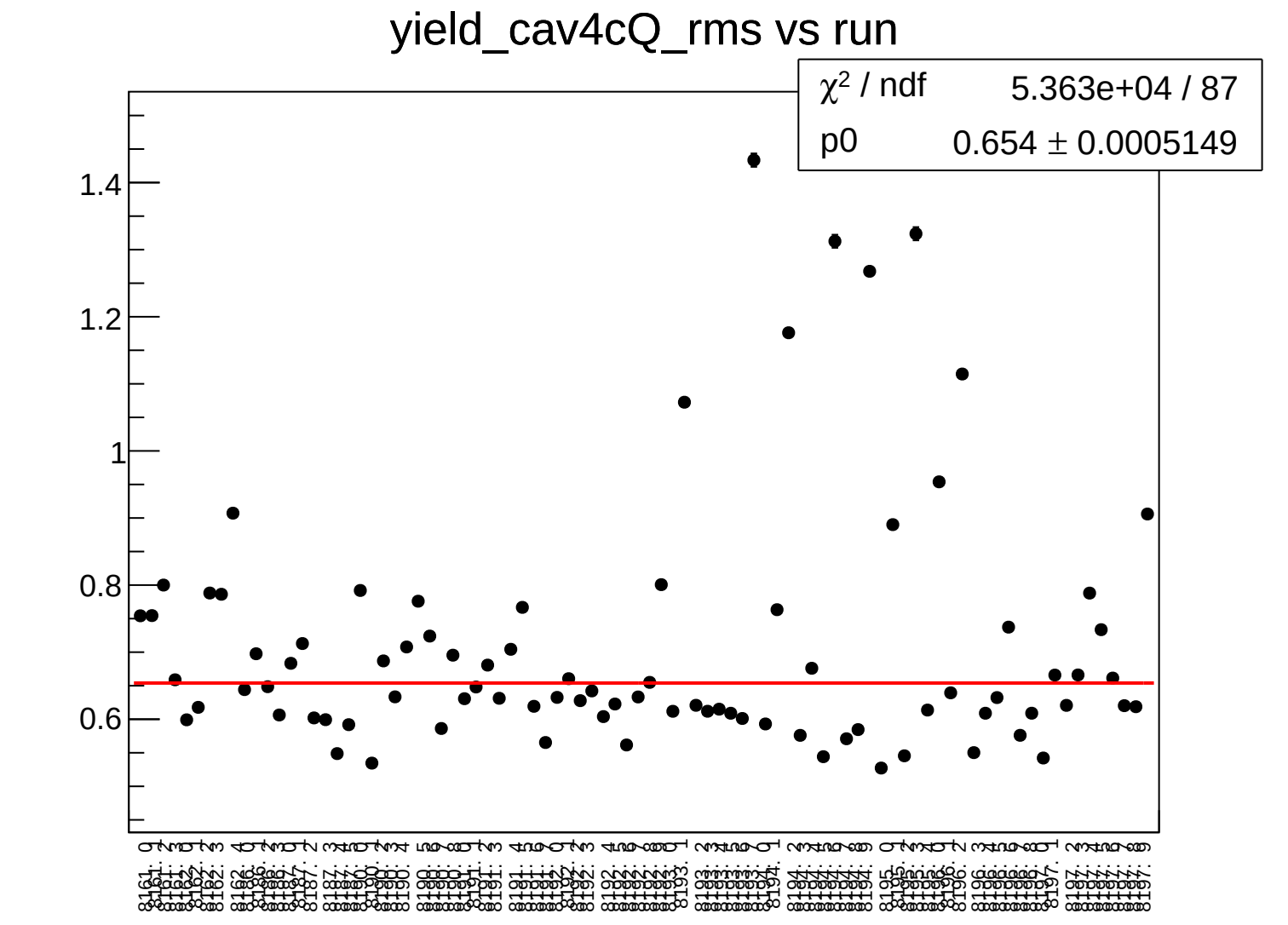

yield_bcm_dg_ds_rms vs run
χ² / ndf 8982 / 87
p0 0.5992 ± 0.0004653
0.8
0.75
0.7
0.65
0.6
0.55
0.5

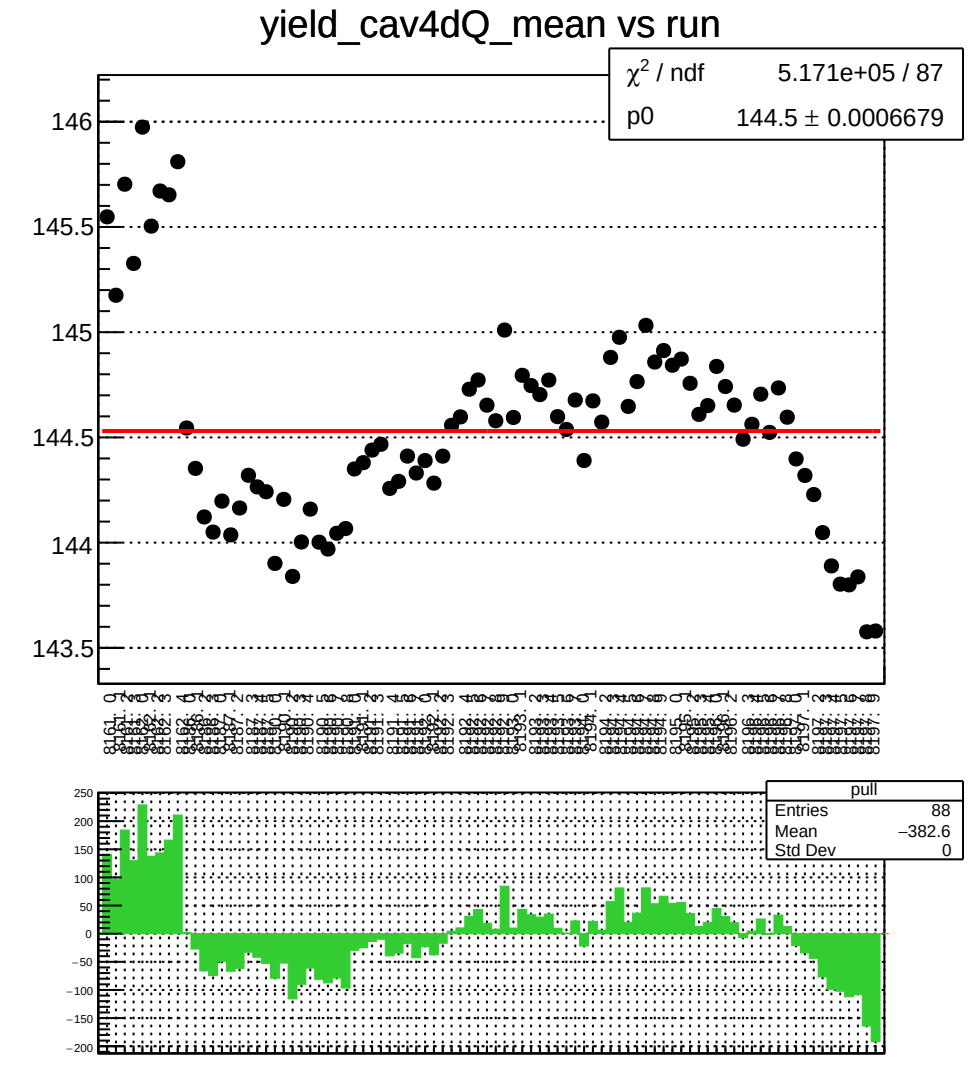

yield_cav4bQ_mean vs run
χ² / ndf 3.772e+05 / 87
p0 145.5 ± 0.0008295
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 88
Mean 323.9
Std Dev 0
300
200
100
0
−100
pull1D
Entries 88
Mean 0.2864
Std Dev 5.326
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

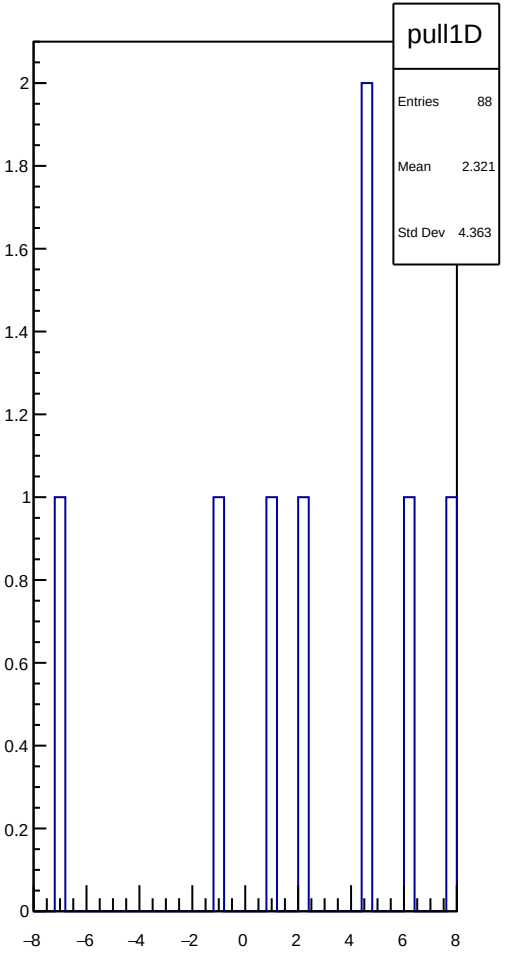

yield_cav4bQ_rms vs run
χ² / ndf 9.292e+04 / 87
p0 0.7359 ± 0.0005866
2
1.8
1.6
1.4
1.2
1
0.8
0.6

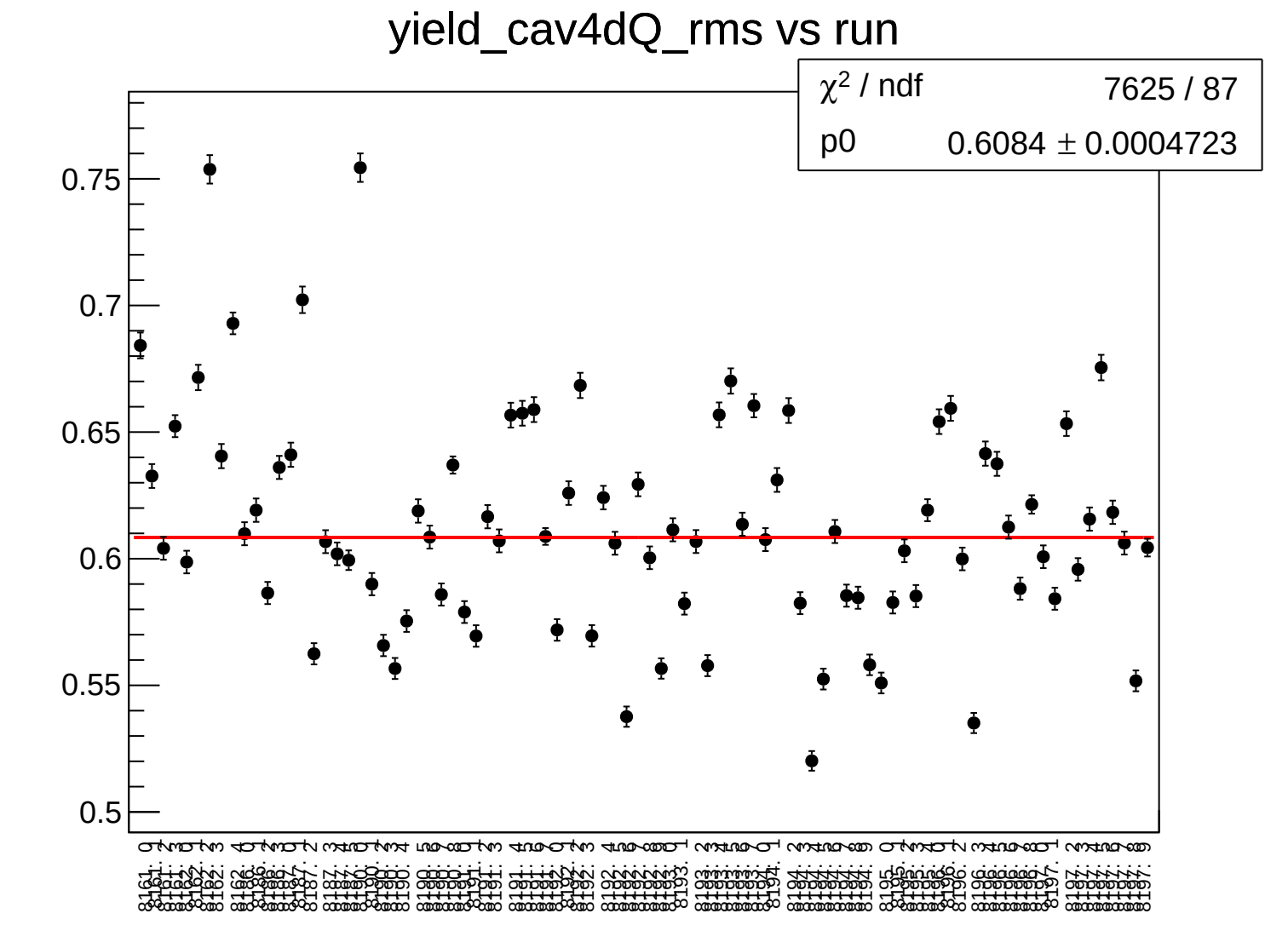

yield_cav4cQ_mean vs run
χ² / ndf 4.097e+05 / 87
p0 143 ± 0.0007282
144.5
144
143.5
143
142.5
142
pull
Entries 88
Mean −78.92
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

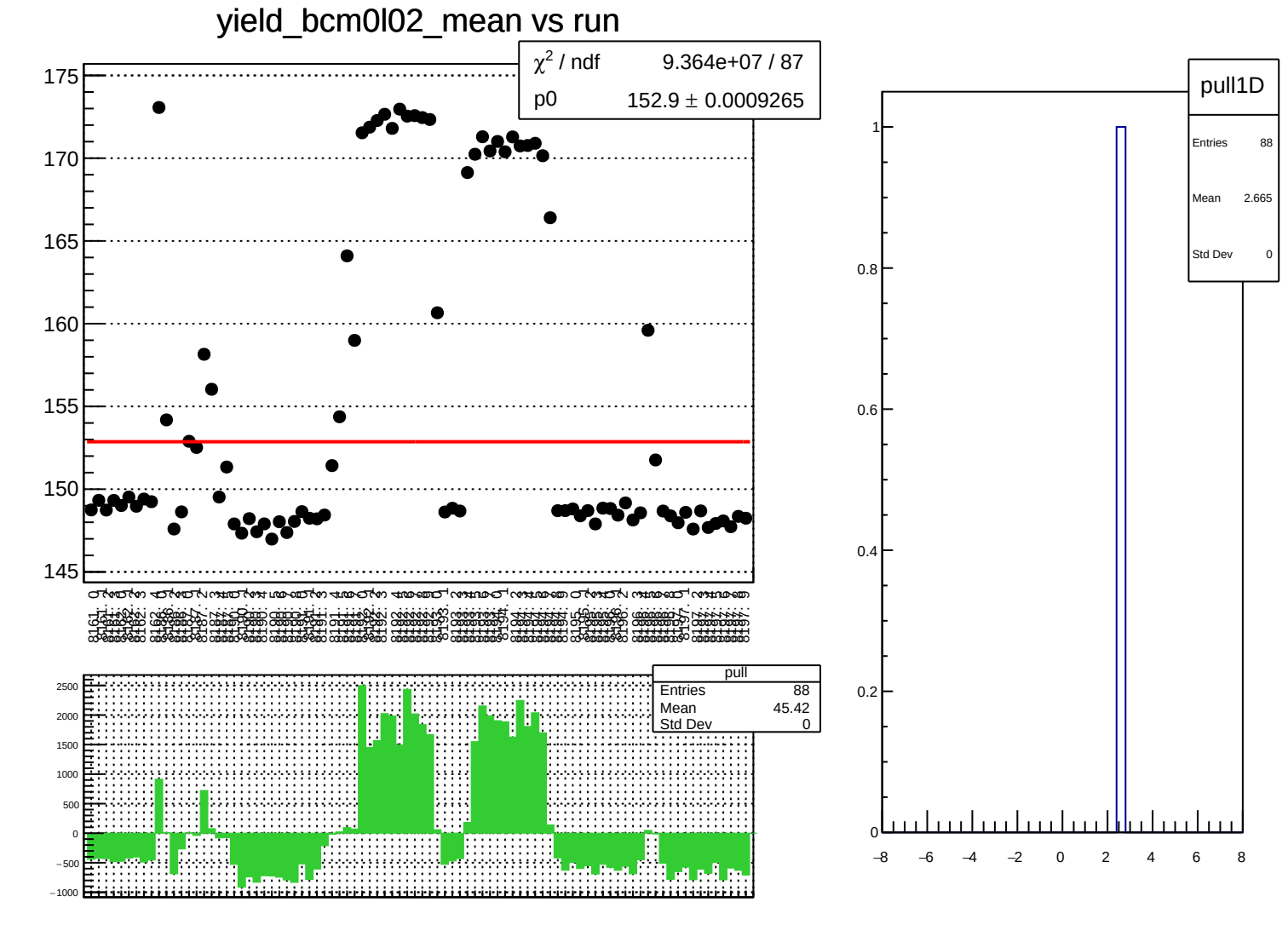

pull1D
Entries 88
Mean −1.177
Std Dev 4.228
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

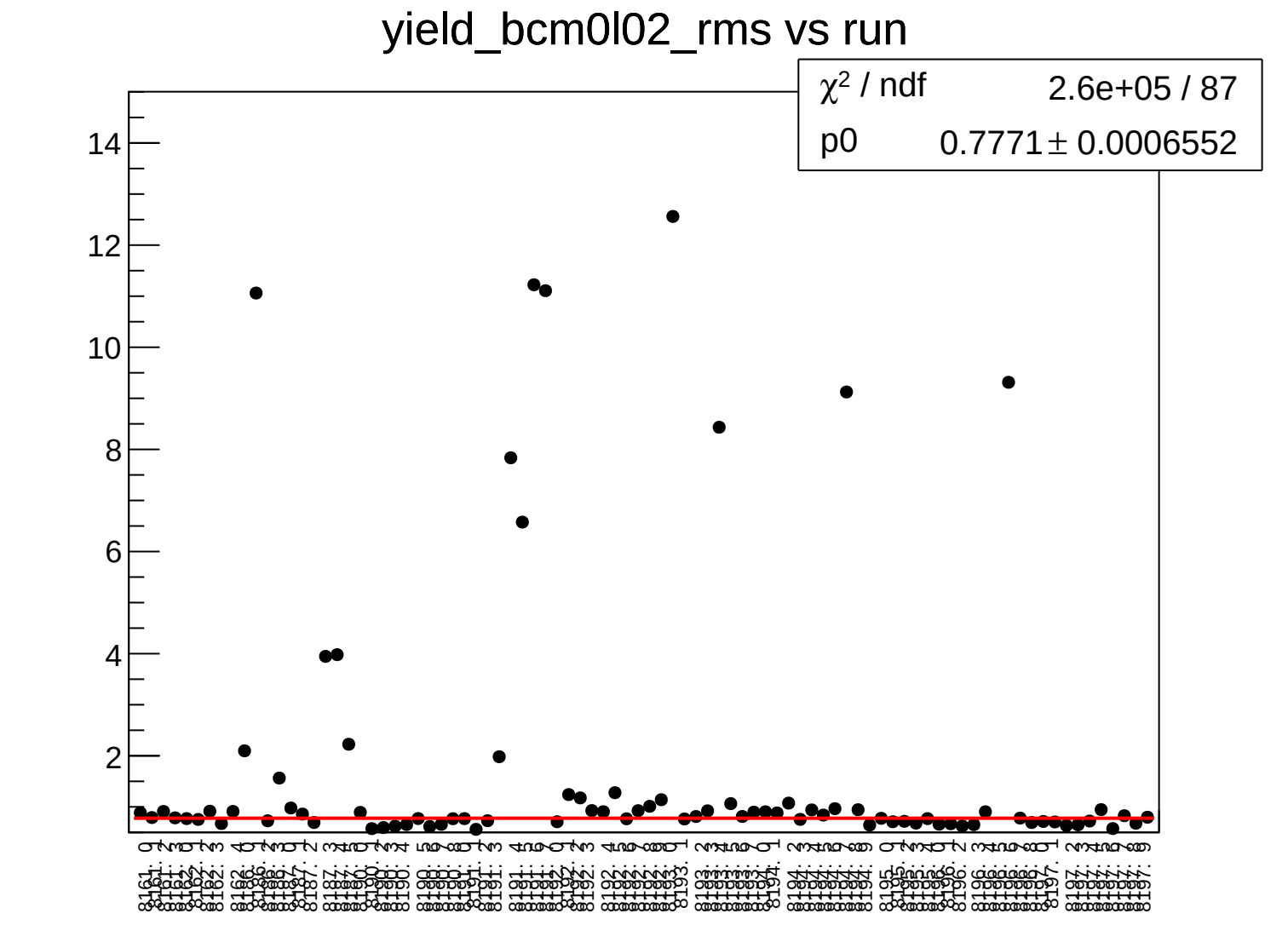

yield_cav4cQ_rms vs run
χ² / ndf 5.363e+04 / 87
p0 0.654 ± 0.0005149
1.4
1.2
1
0.8
0.6

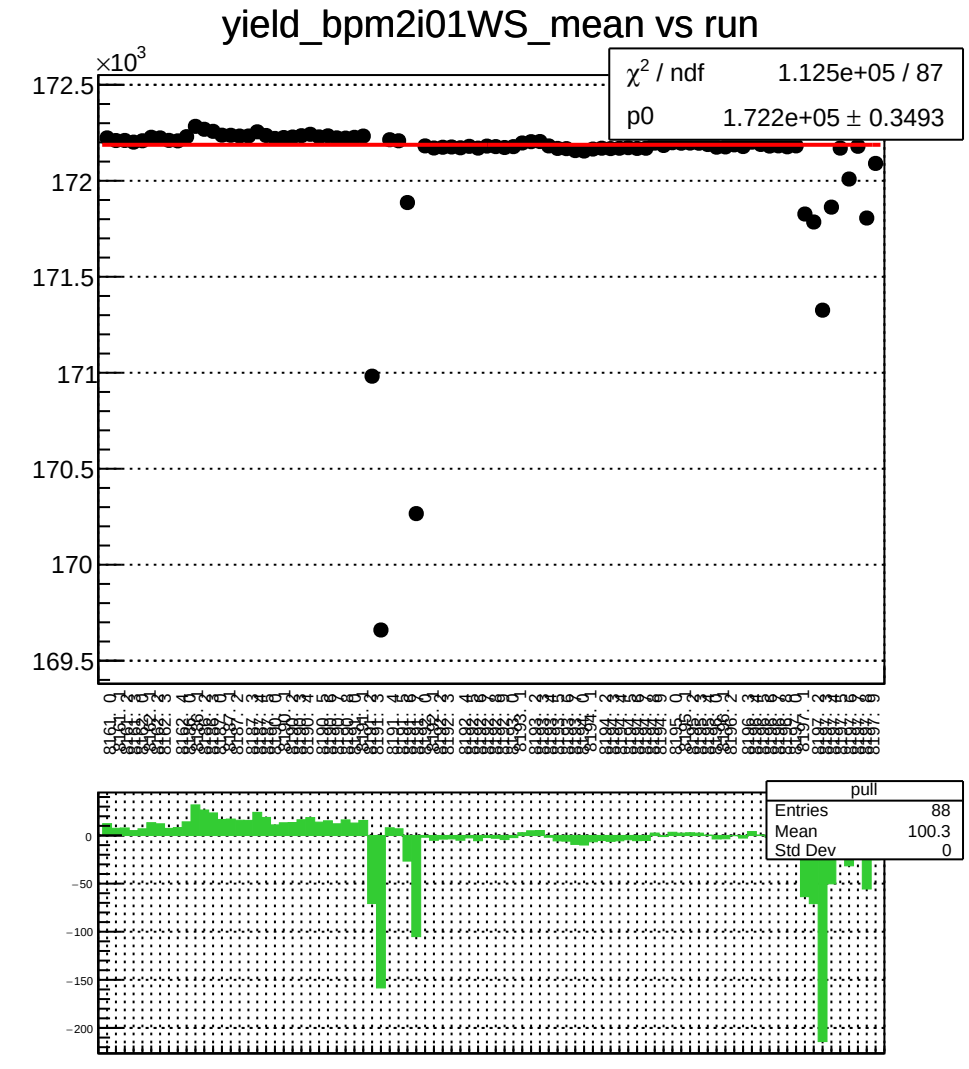

yield_cav4dQ_mean vs run
χ² / ndf 5.171e+05 / 87
p0 144.5 ± 0.0006679
146
145.5
145
144.5
144
143.5
pull
Entries 88
Mean −382.6
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

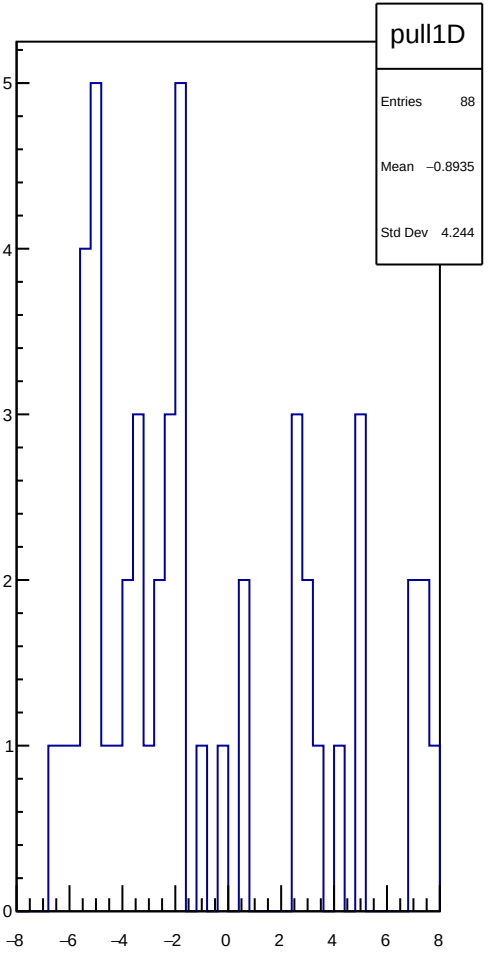

pull1D
Entries 88
Mean 2.321
Std Dev 4.363
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

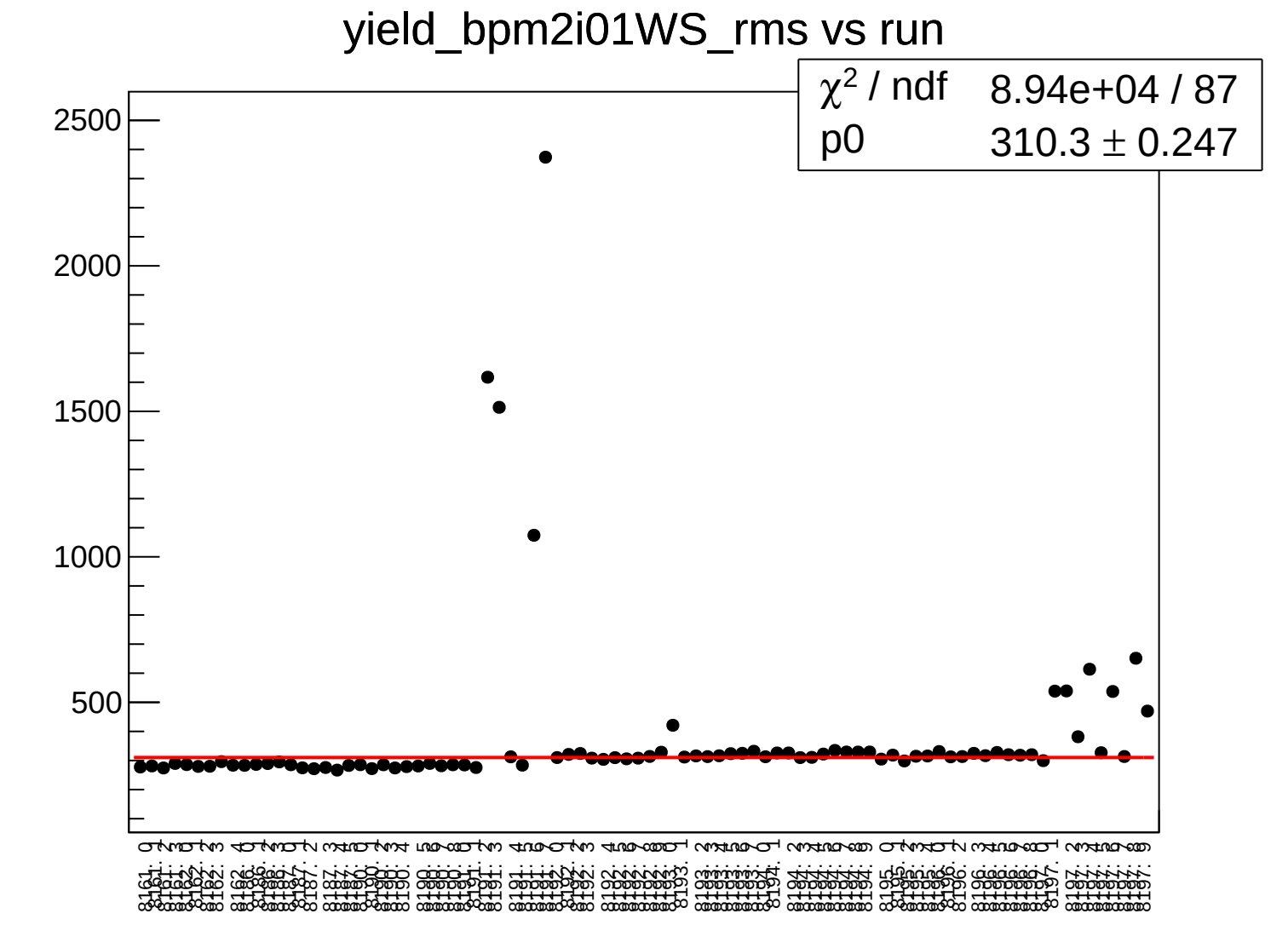

yield_cav4dQ_rms vs run
χ² / ndf 7625 / 87
p0 0.6084 ± 0.0004723
0.75
0.7
0.65
0.6
0.55
0.5

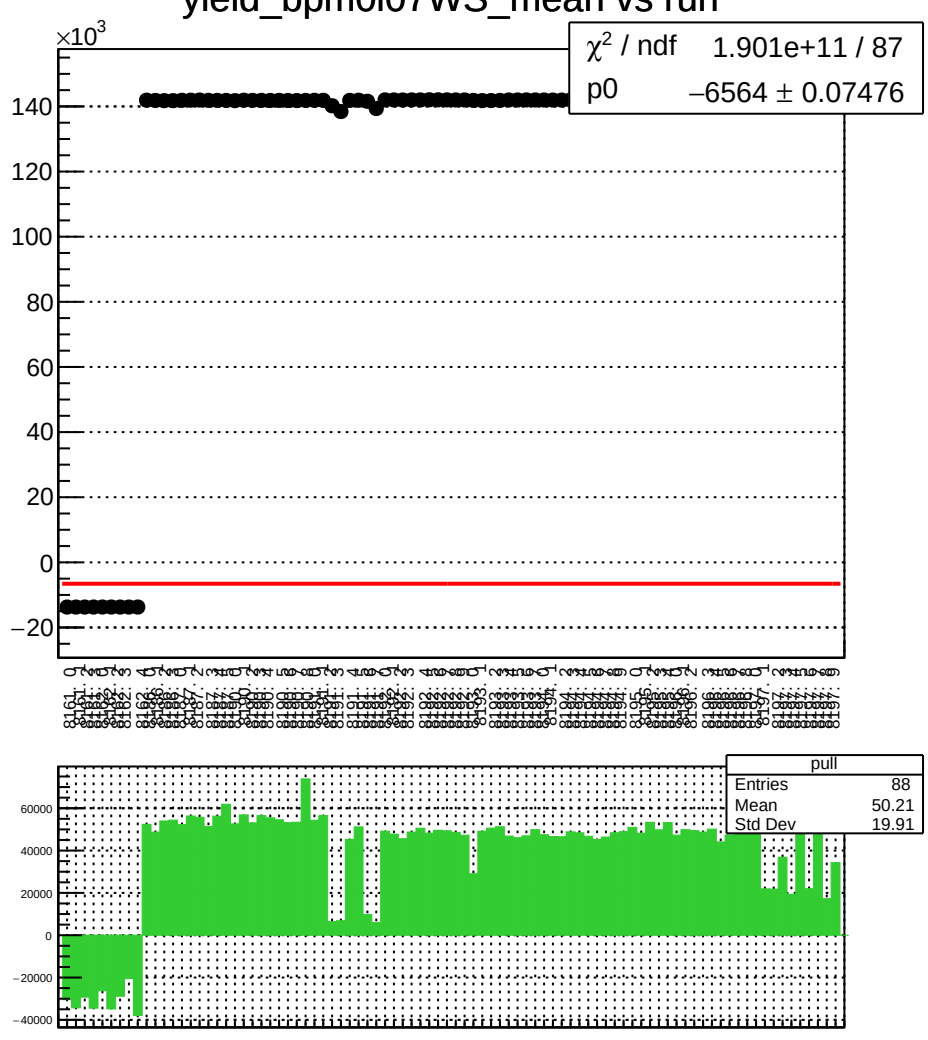

yield_bcm0l02_mean vs run
χ² / ndf 9.364e+07 / 87
p0 152.9 ± 0.0009265
pull
Entries 88
Mean 45.42
Std Dev 0
pull1D
Entries 88
Mean 2.665
Std Dev 0

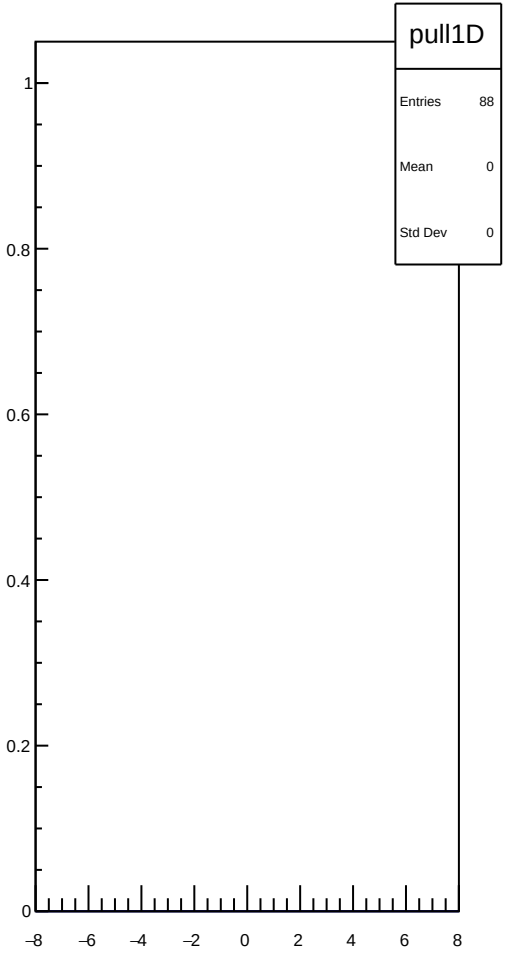

yield_bcm0l02_rms vs run
χ² / ndf 2.6e+05 / 87
p0 0.7771 ± 0.0006552
14
12
10
8
6
4
2

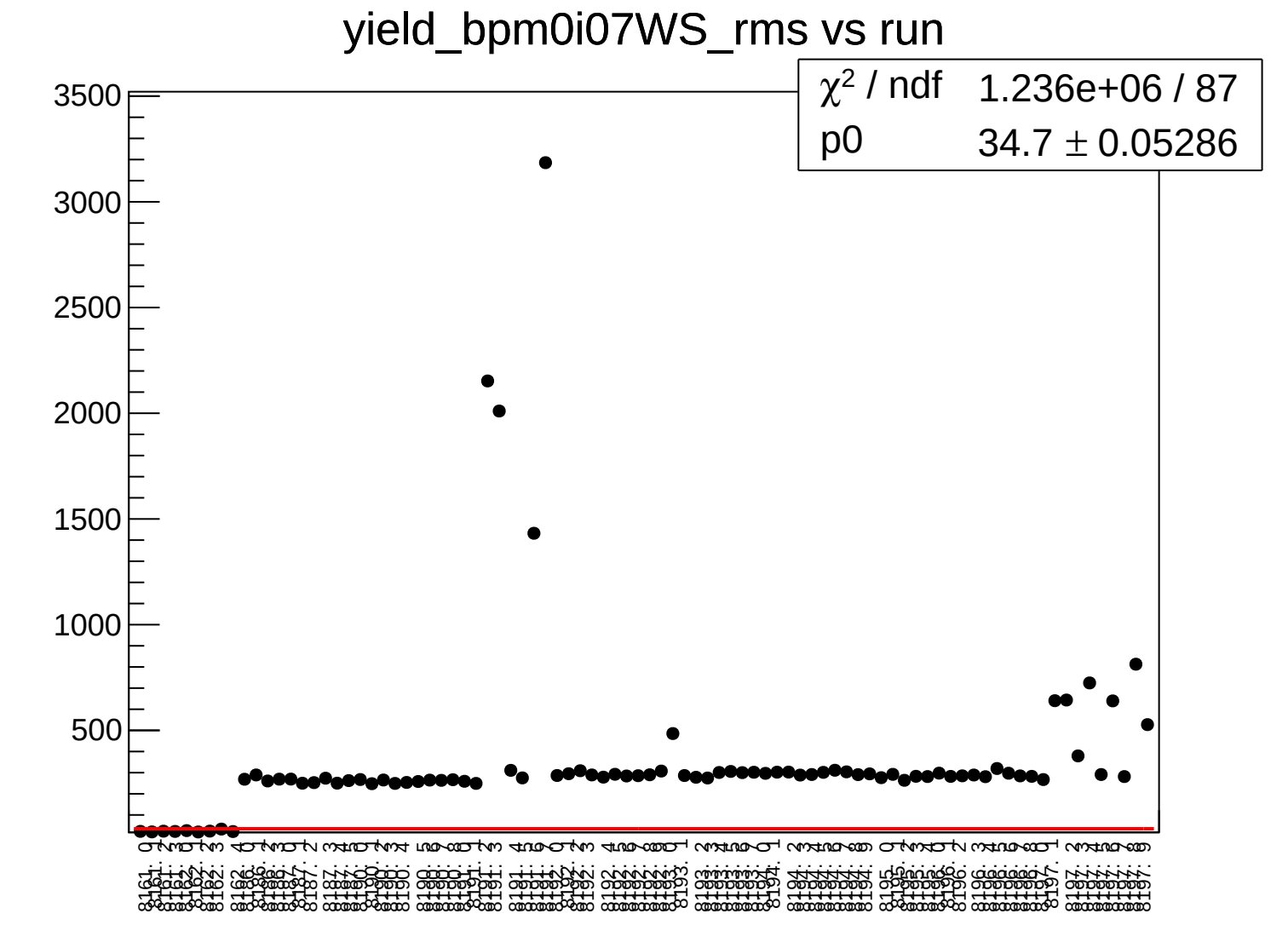

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.125e+05 / 87
p0 1.722e+05 ± 0.3493
172.5
172
171.5
171
170.5
170
169.5
pull
Entries 88
Mean 100.3
Std Dev 0
0
−50
−100
−150
−200

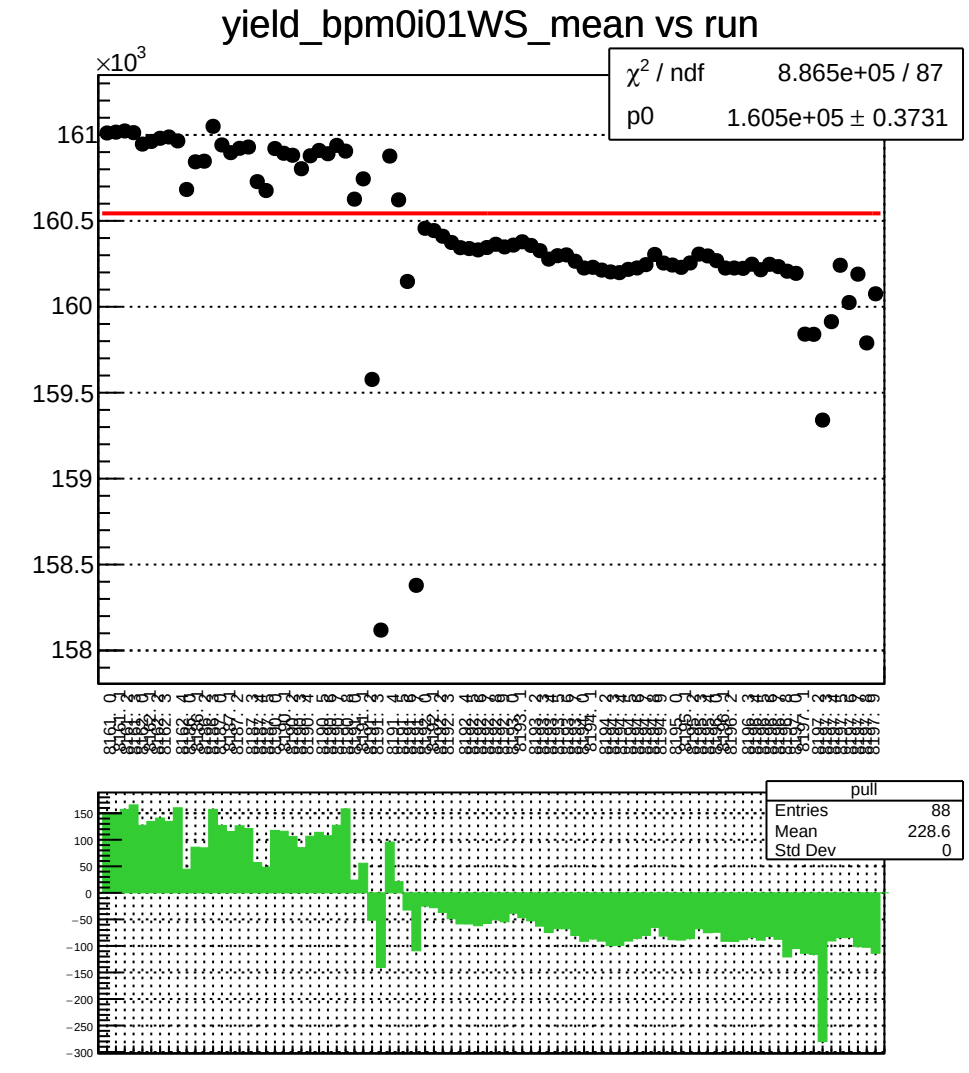

pull1D
Entries 88
Mean −0.8935
Std Dev 4.244
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

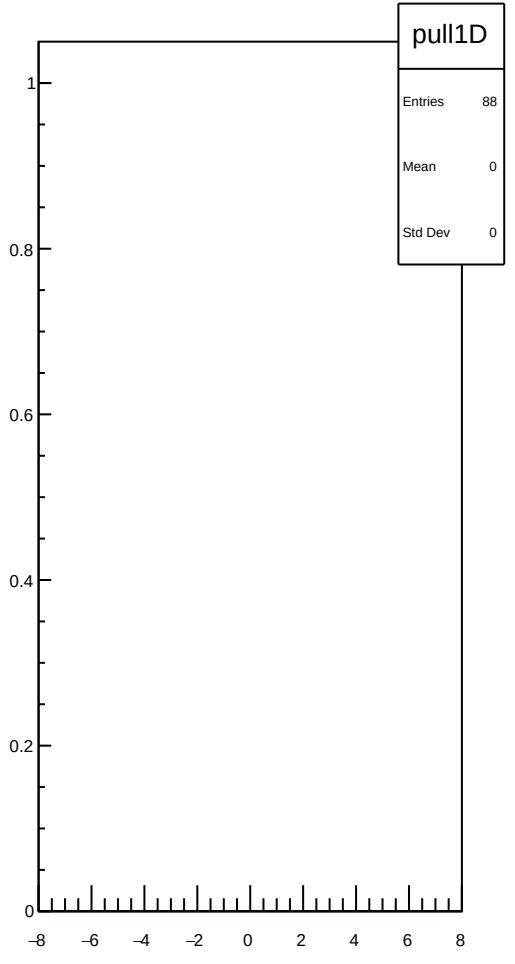

yield_bpm2i01WS_rms vs run
χ² / ndf 8.94e+04 / 87
p0 310.3 ± 0.247
2500
2000
1500
1000
500

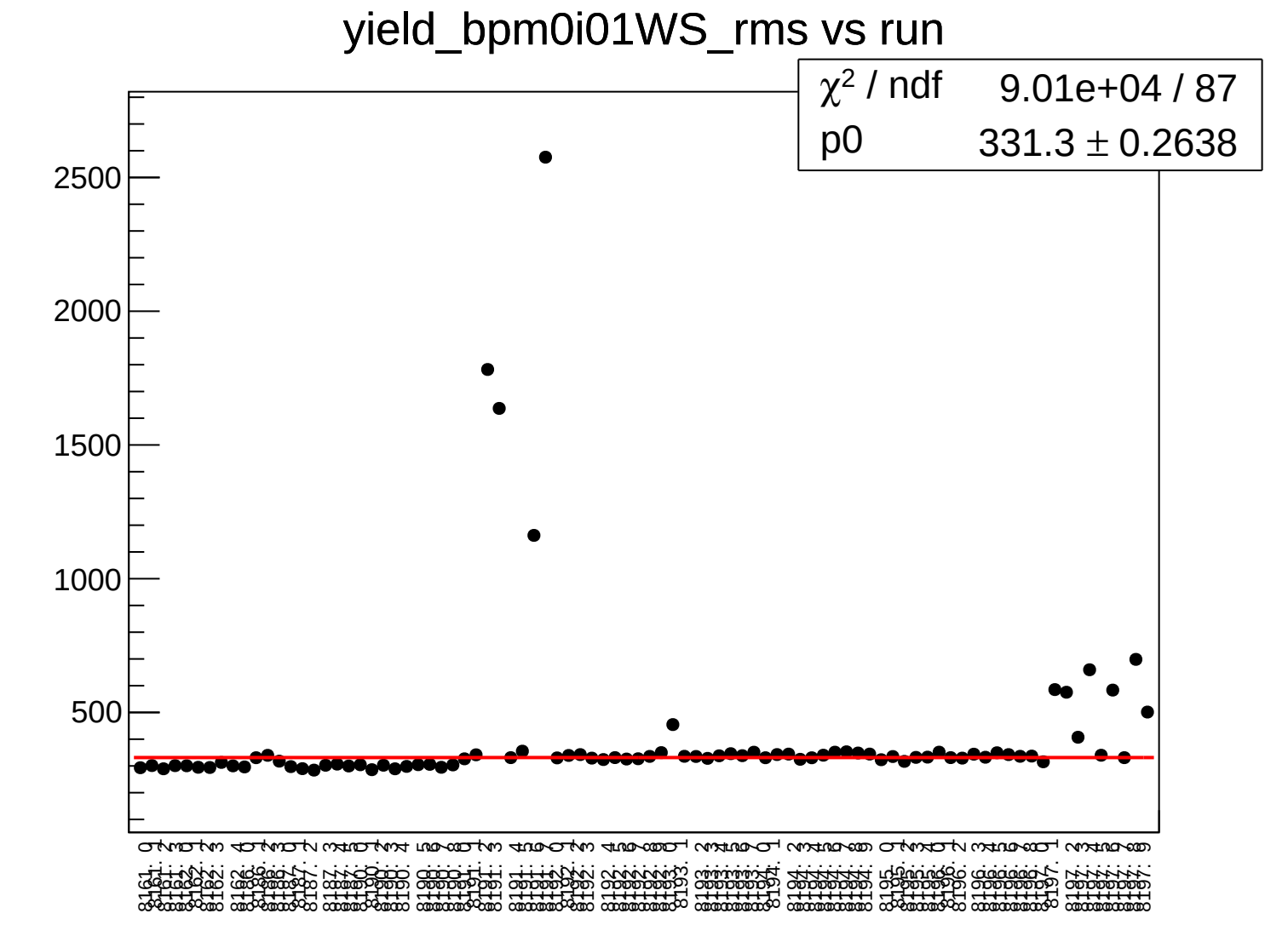

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.901e+11 / 87
p0 −6564 ± 0.07476
140
120
100
80
60
40
20
0
−20
pull
Entries 88
Mean 50.21
Std Dev 19.91
60000
40000
20000
0
−20000
−40000

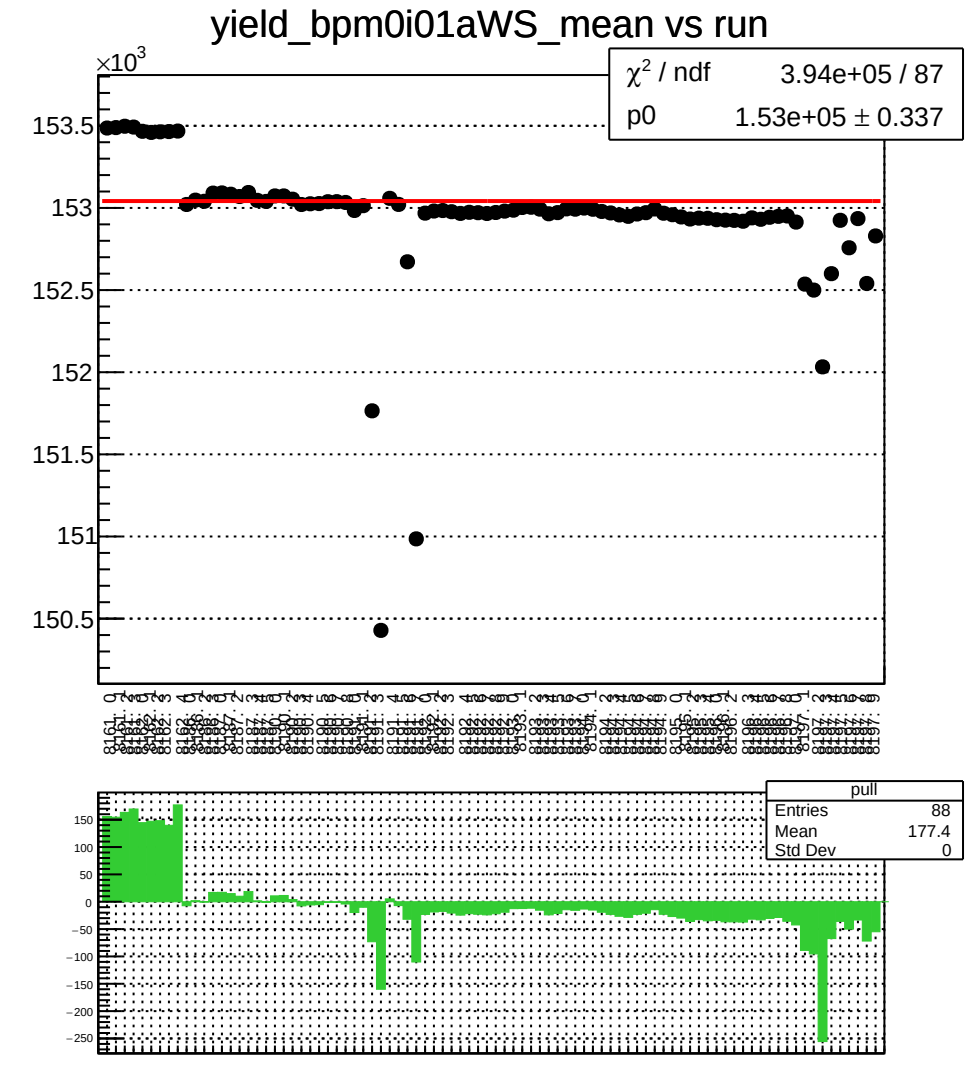

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

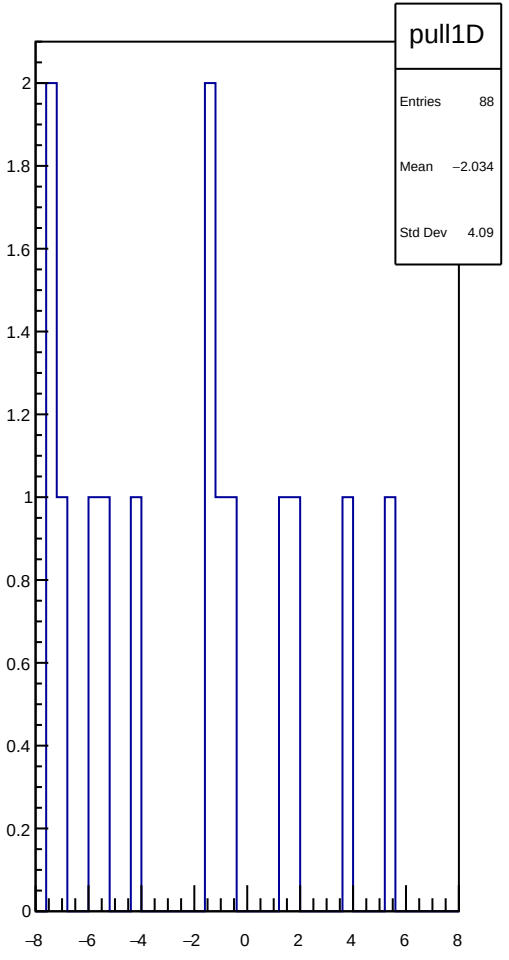

yield_bpm0i07WS_rms vs run
χ² / ndf 1.236e+06 / 87
p0 34.7 ± 0.05286
3500
3000
2500
2000
1500
1000
500

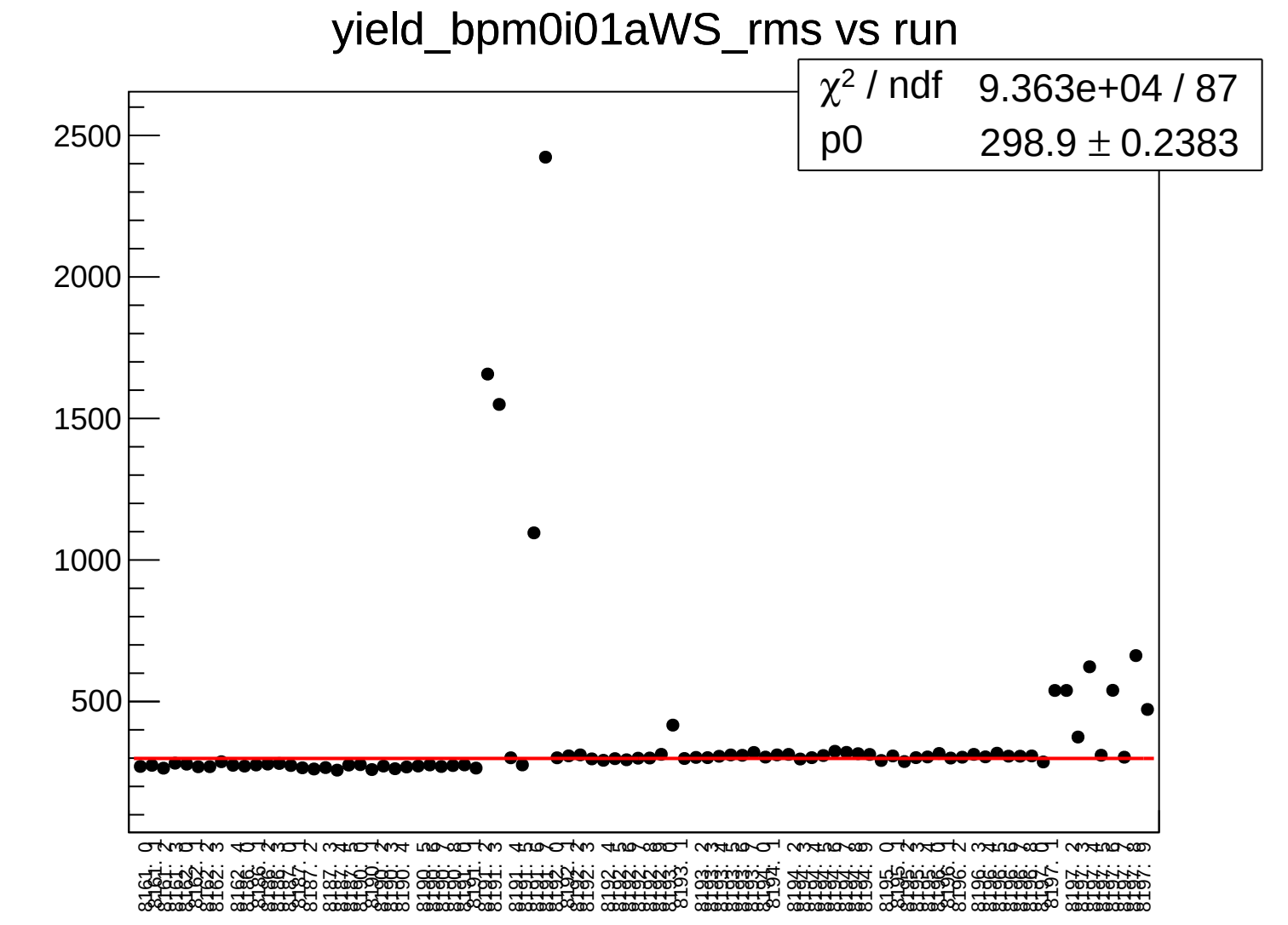

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 8.865e+05 / 87
p0 1.605e+05 ± 0.3731
161
160.5
160
159.5
159
158.5
158
pull
Entries 88
Mean 228.6
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
−300

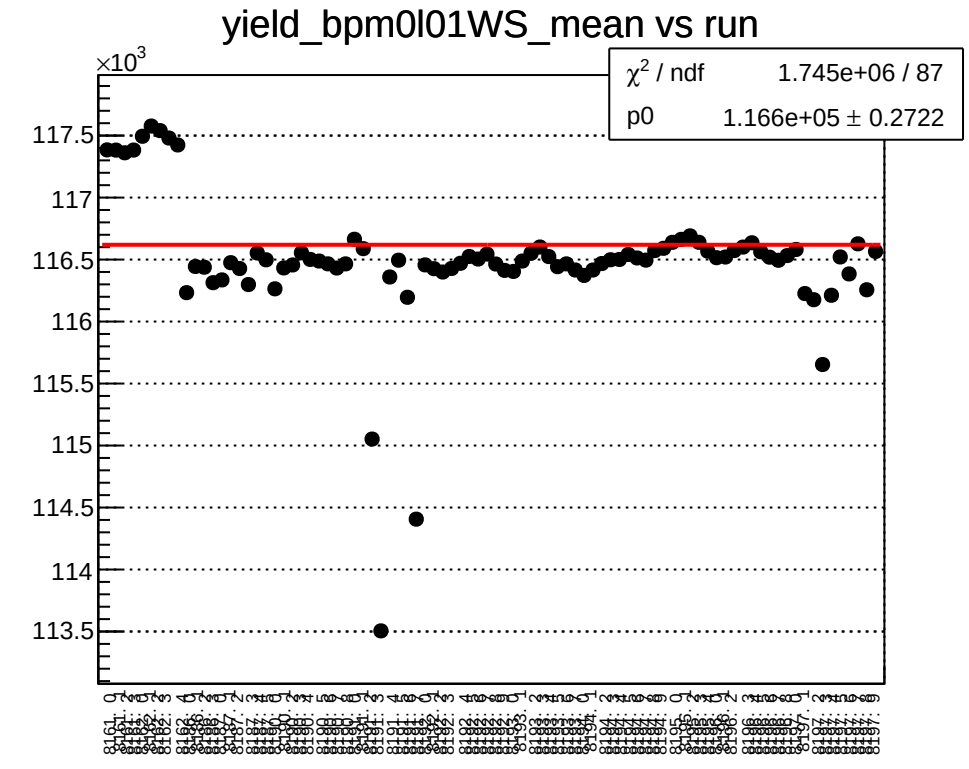

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

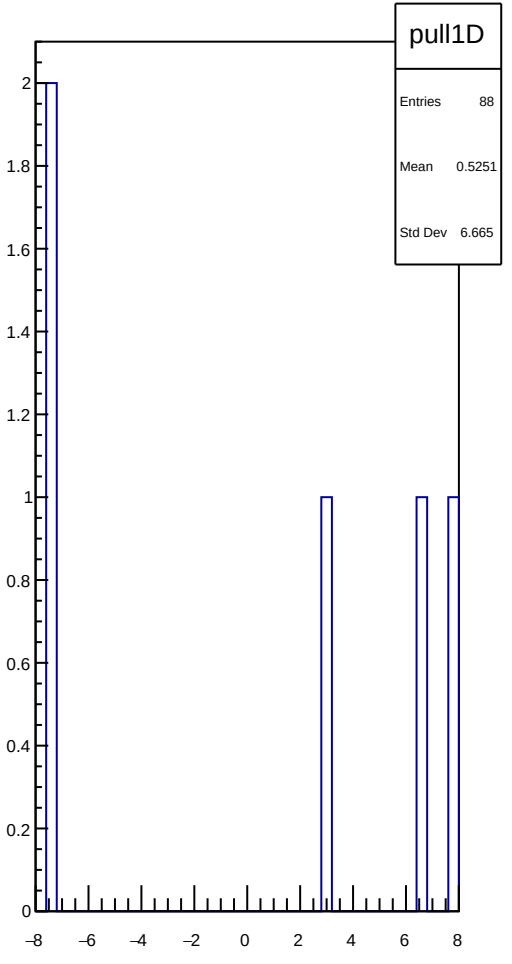

yield_bpm0i01WS_rms vs run
χ² / ndf 9.01e+04 / 87
p0 331.3 ± 0.2638
2500
2000
1500
1000
500

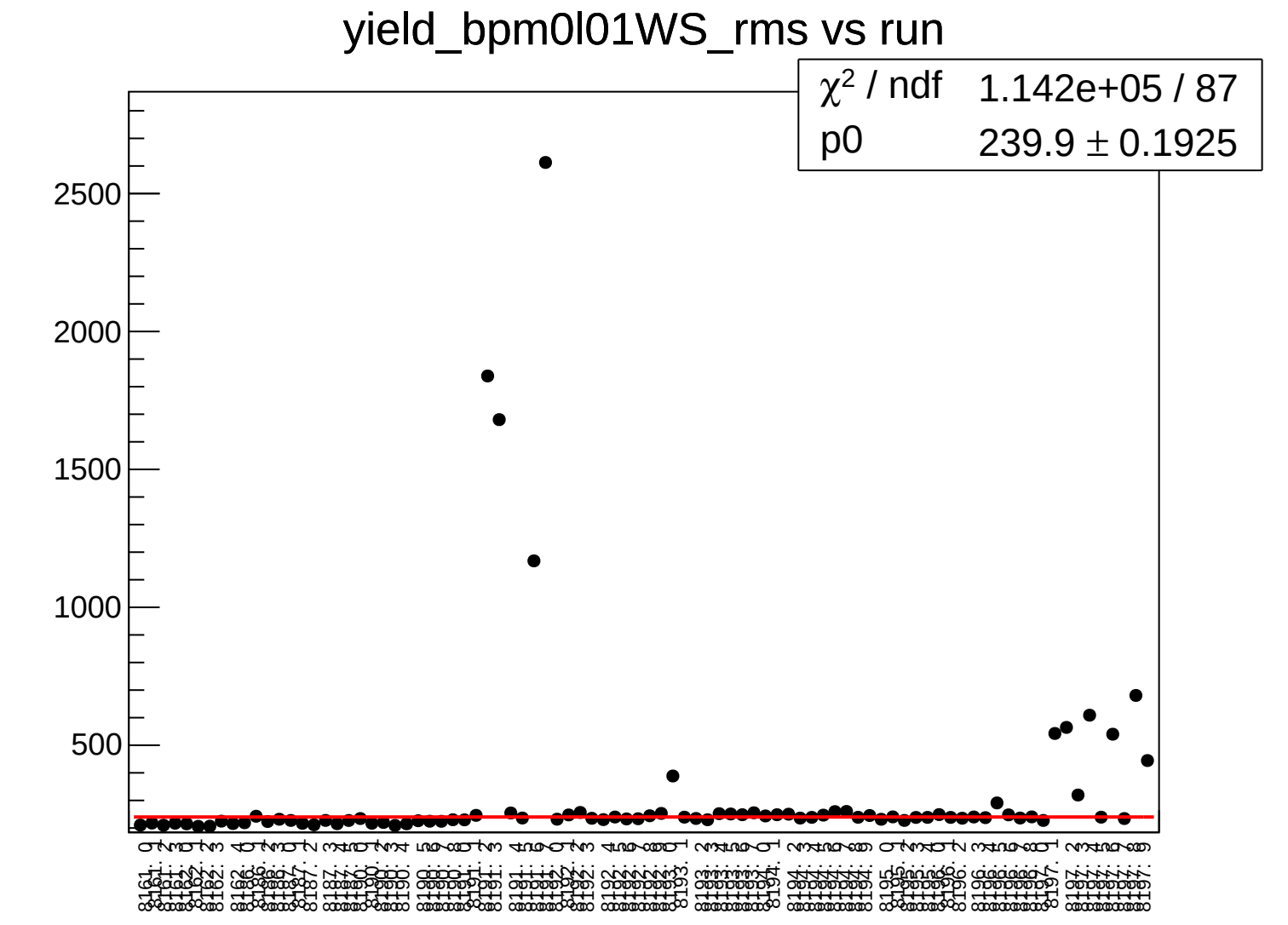

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 3.94e+05 / 87
p0 1.53e+05 ± 0.337
153.5
153
152.5
152
151.5
151
150.5
pull
Entries 88
Mean 177.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

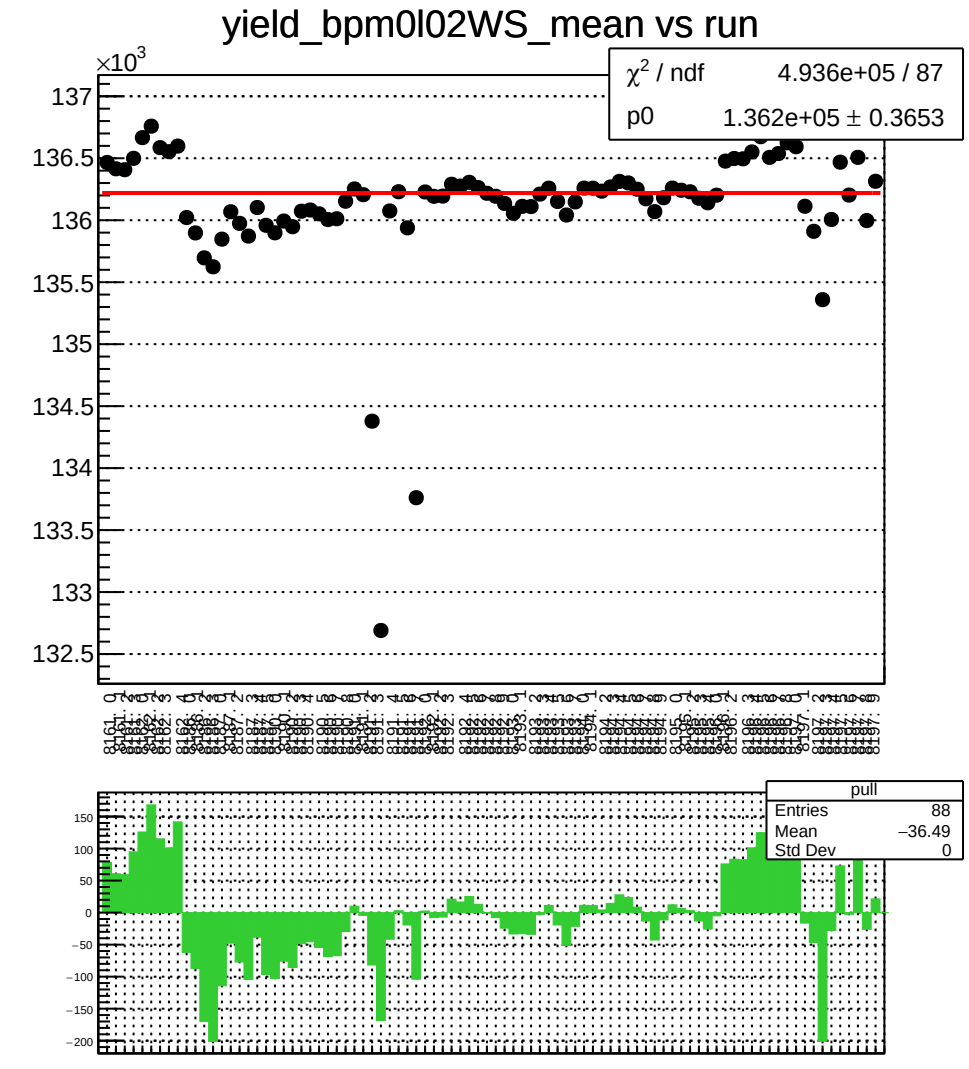

pull1D
Entries 88
Mean −2.034
Std Dev 4.09
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

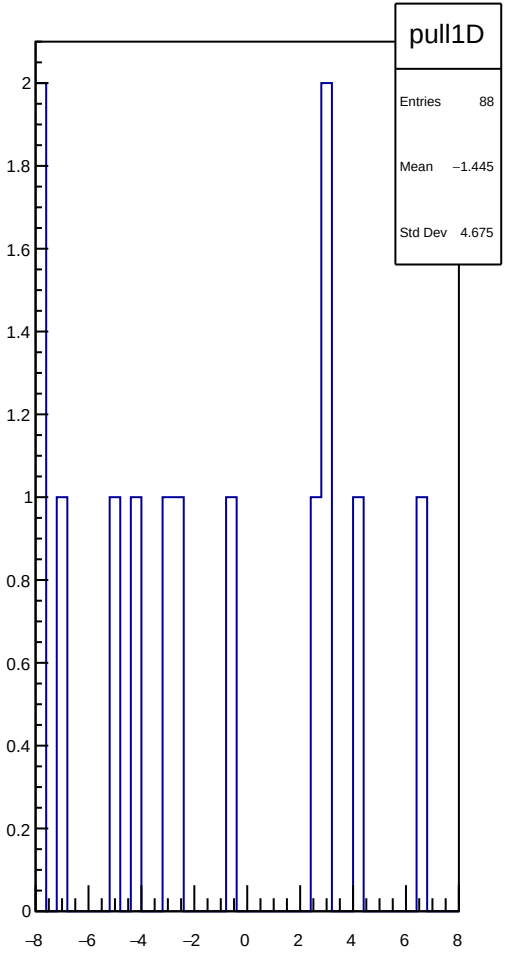

yield_bpm0i01aWS_rms vs run
χ² / ndf 9.363e+04 / 87
p0 298.9 ± 0.2383
2500
2000
1500
1000
500

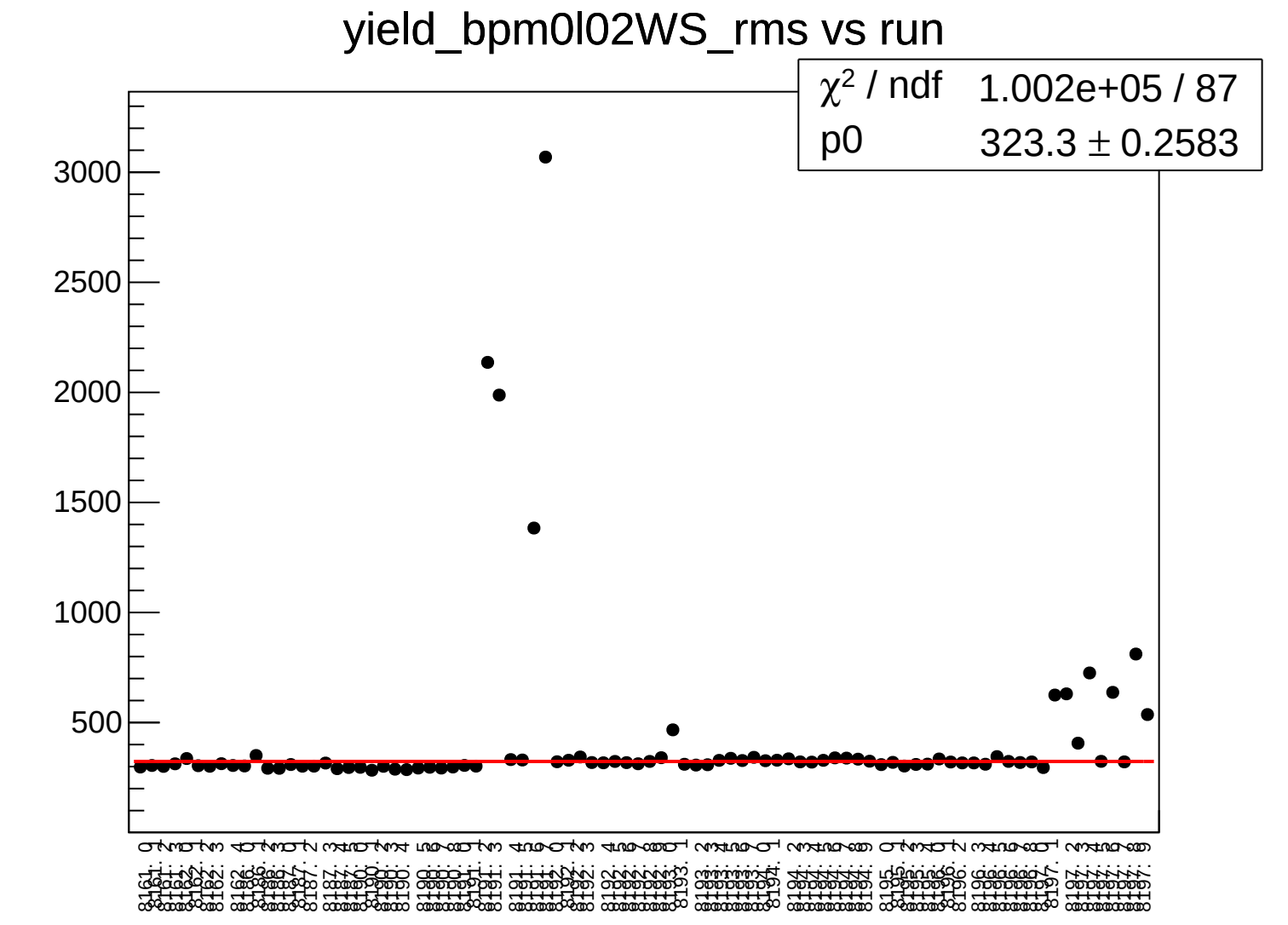

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.745e+06 / 87
p0 1.166e+05 ± 0.2722
117.5
117
116.5
116
115.5
115
114.5
114
113.5
pull
Entries 88
Mean 163.4
Std Dev 0
400
300
200
100
0
−100
−200
−300

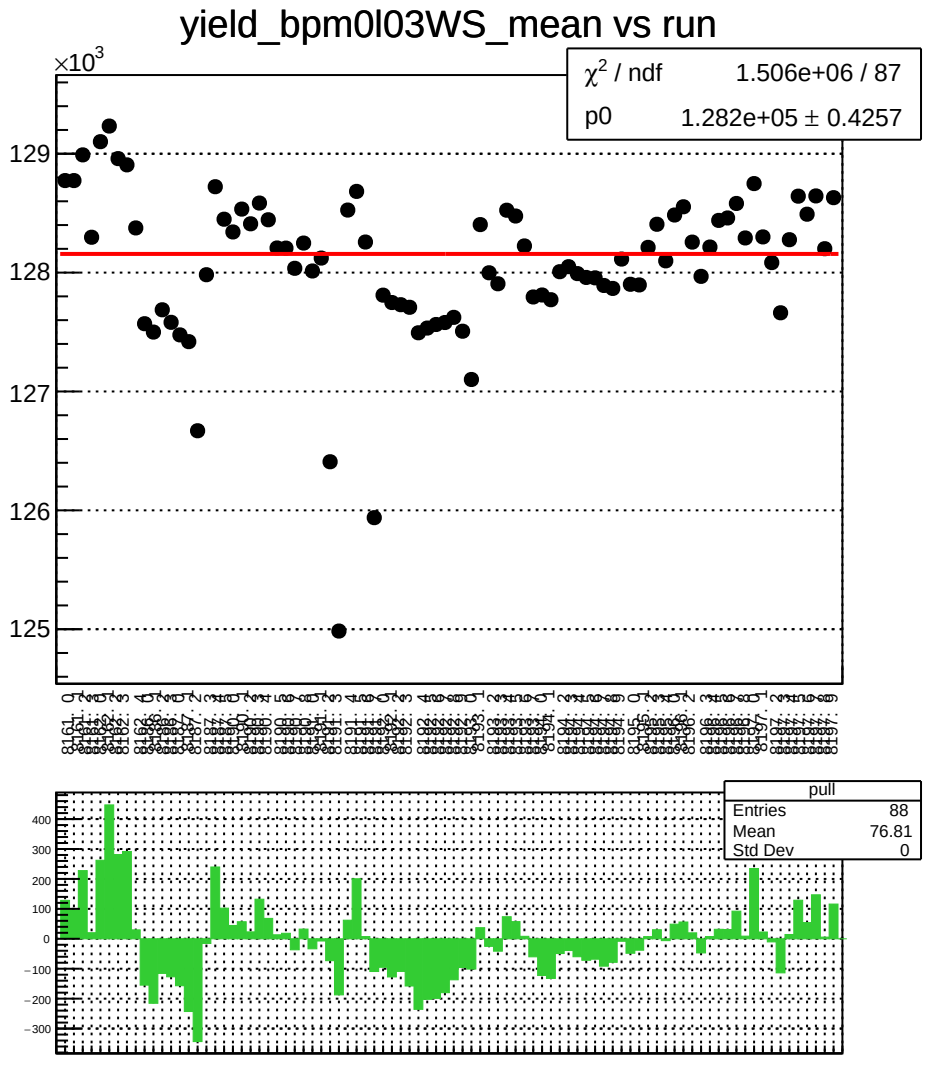

pull1D
Entries 88
Mean 0.5251
Std Dev 6.665
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

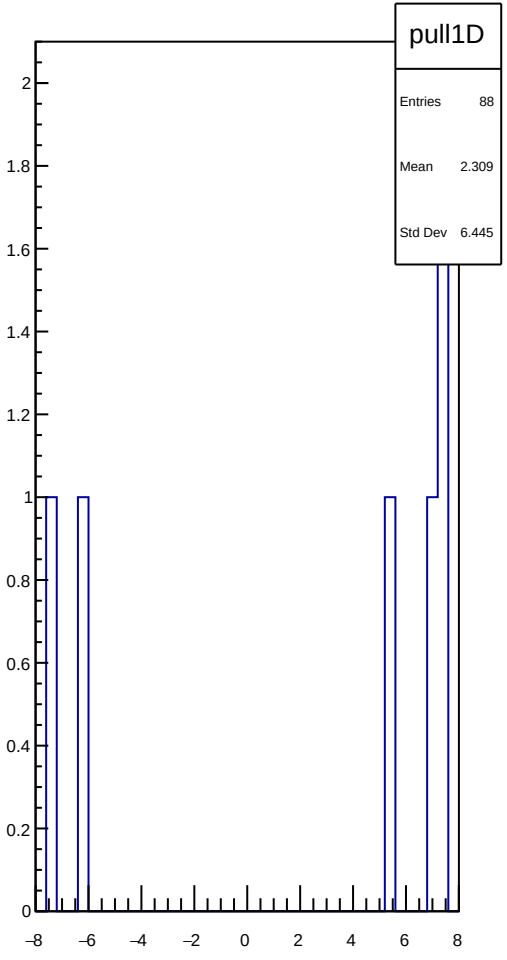

yield_bpm0l01WS_rms vs run
χ² / ndf 1.142e+05 / 87
p0 239.9 ± 0.1925
2500
2000
1500
1000
500

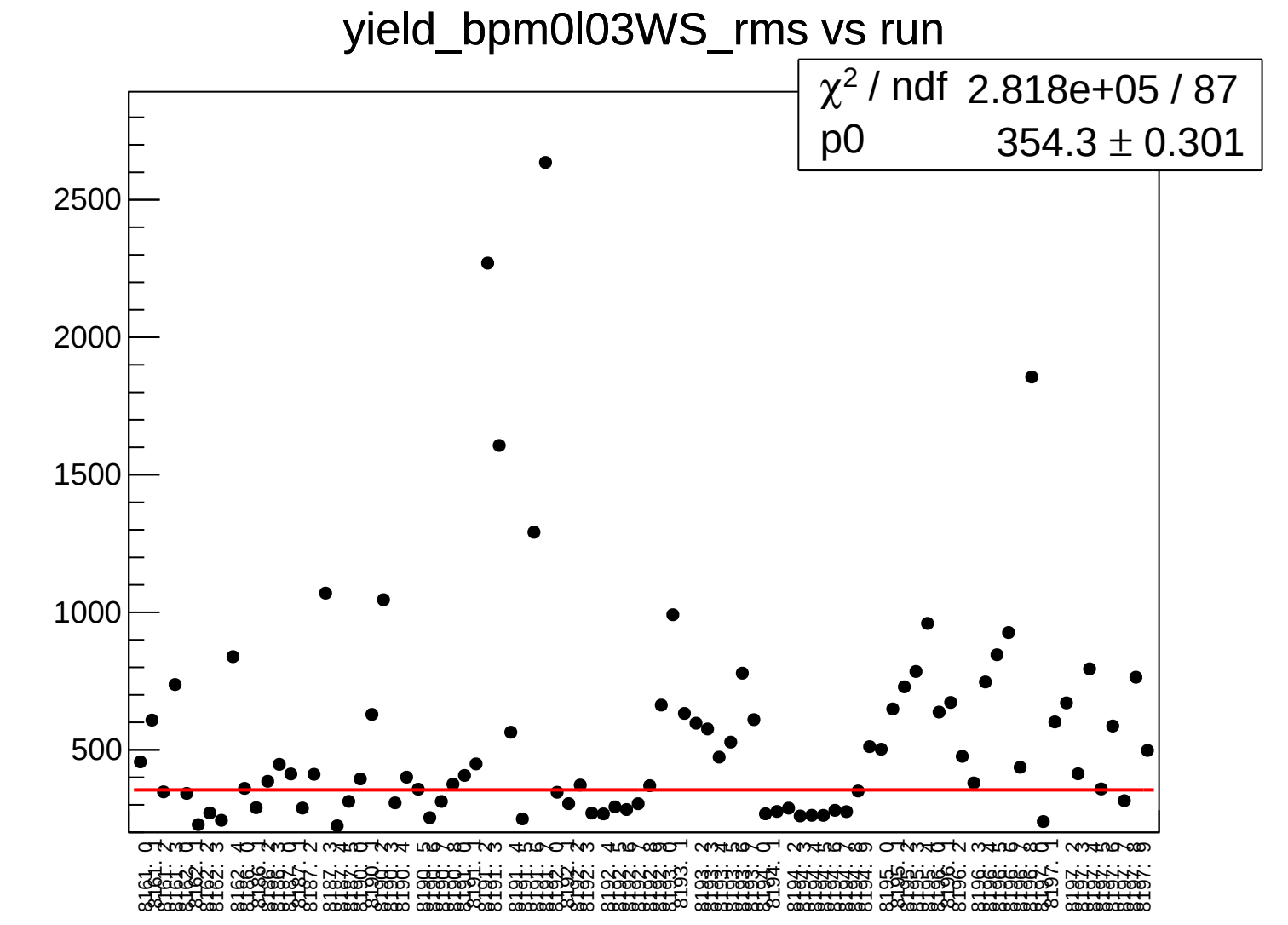

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.936e+05 / 87
p0 1.362e+05 ± 0.3653
137
136.5
136
135.5
135
134.5
134
133.5
133
132.5
pull
Entries 88
Mean −36.49
Std Dev 0
150
100
50
0
−50
−100
−150
−200

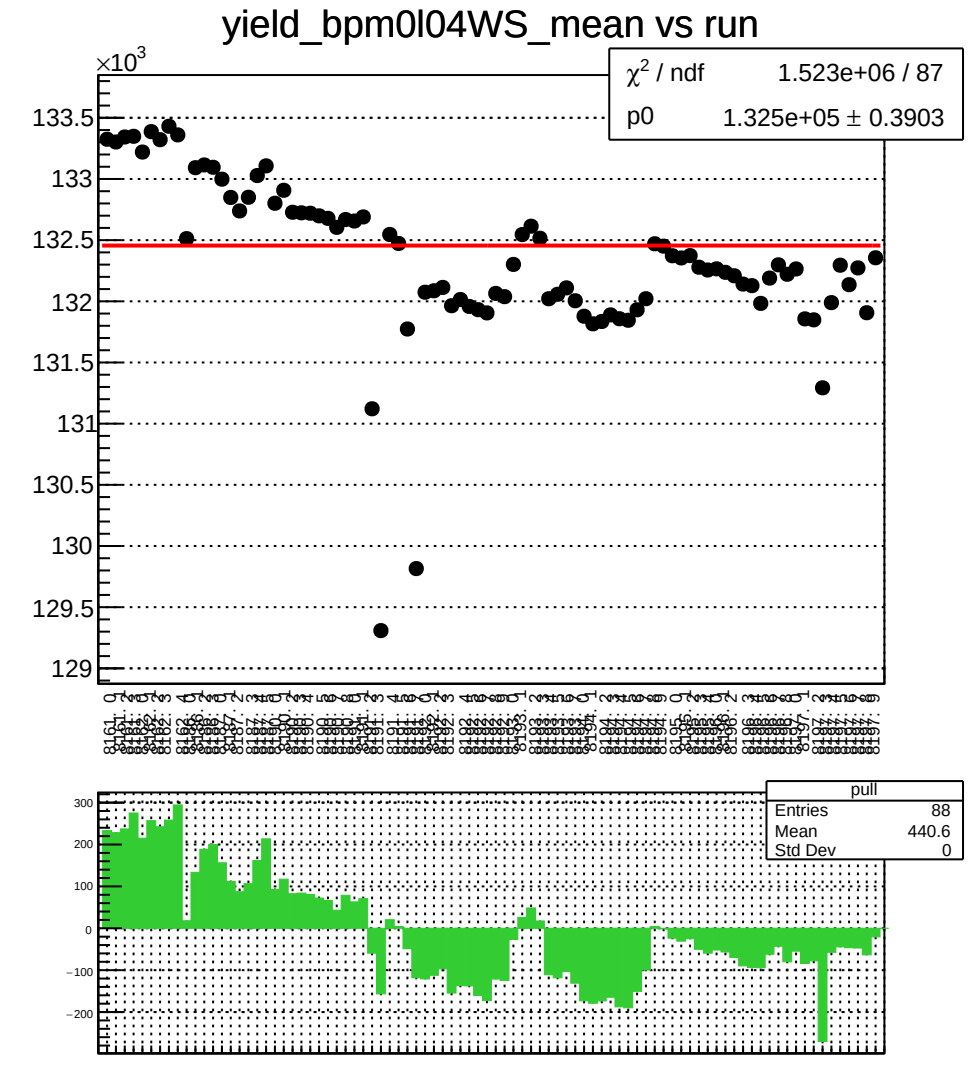

pull1D
Entries 88
Mean −1.445
Std Dev 4.675
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

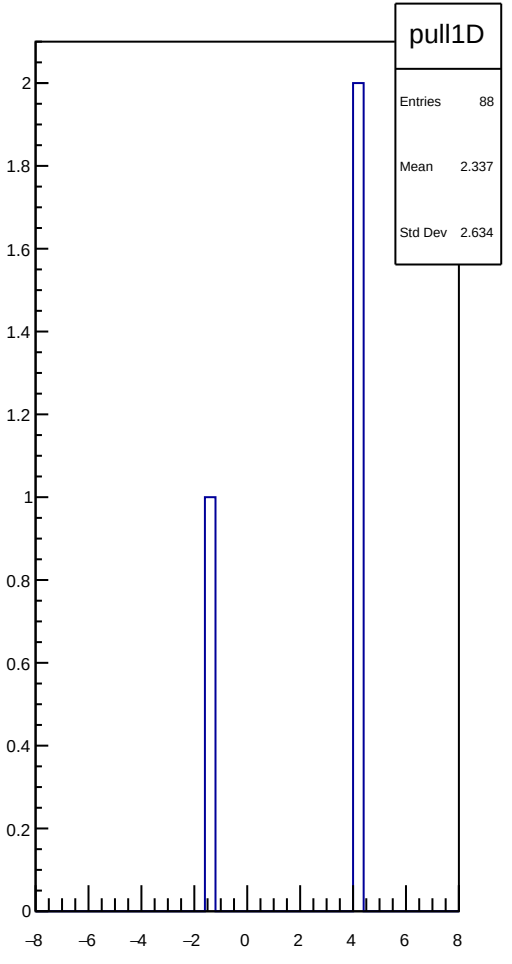

yield_bpm0l02WS_rms vs run
χ² / ndf 1.002e+05 / 87
p0 323.3 ± 0.2583
3000
2500
2000
1500
1000
500

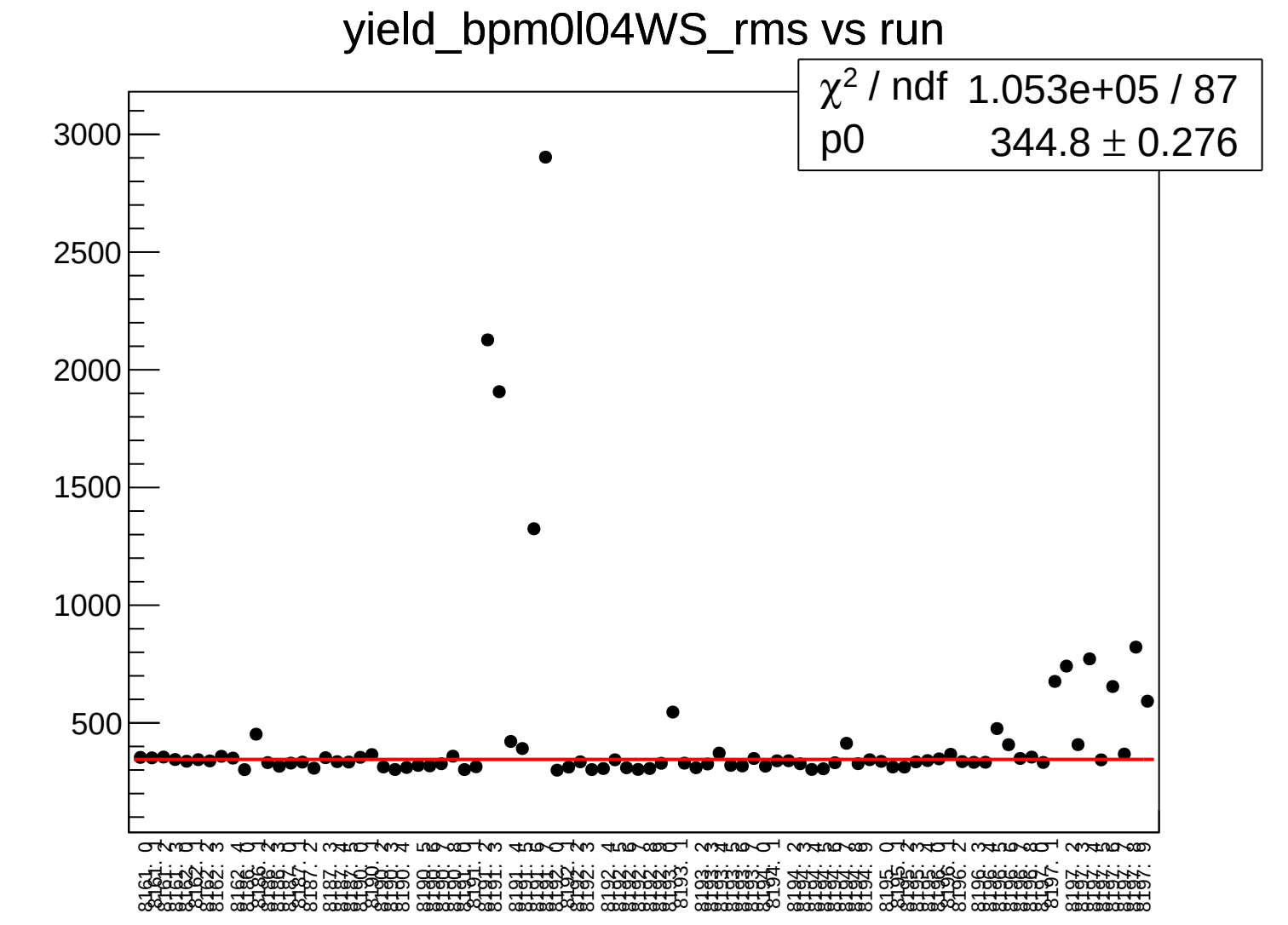

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.506e+06 / 87
p0 1.282e+05 ± 0.4257
129
128
127
126
125
pull
Entries 88
Mean 76.81
Std Dev 0
400
300
200
100
0
−100
−200
−300

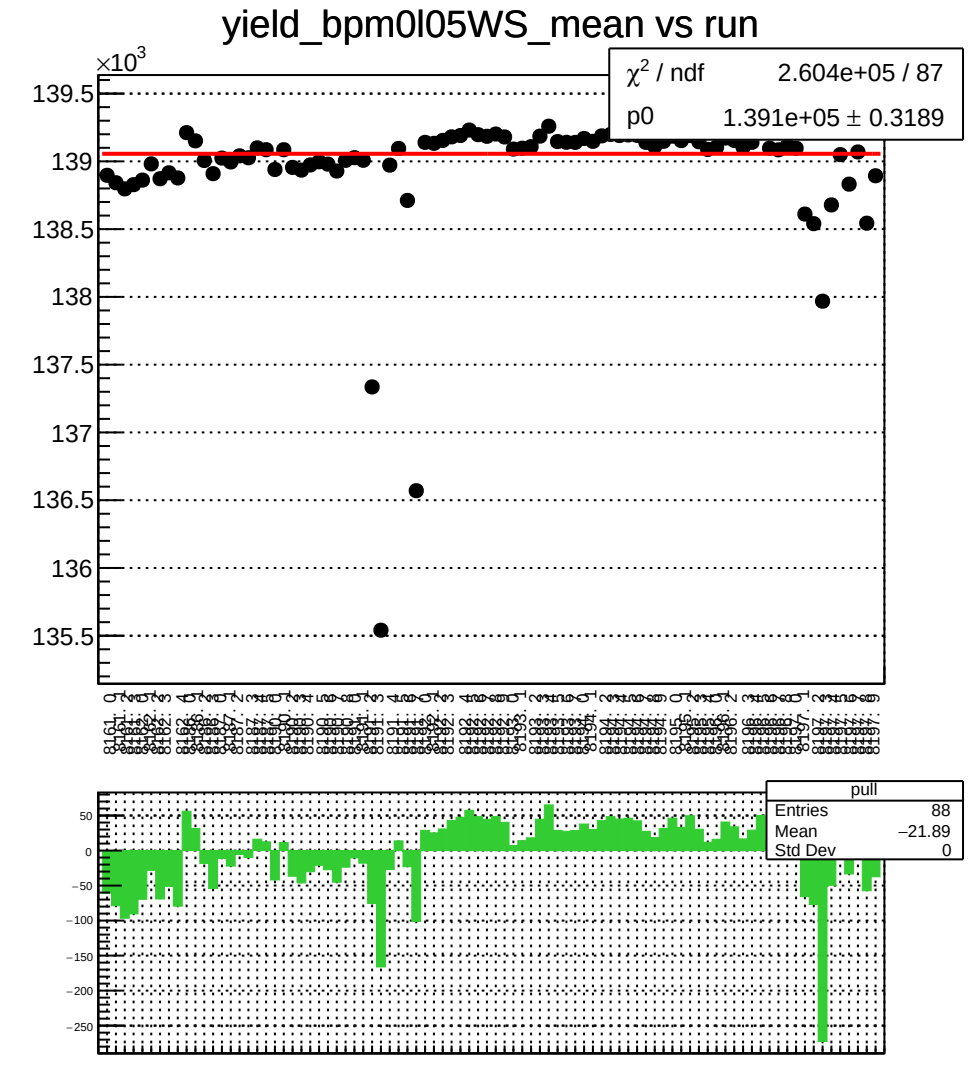

pull1D
Entries 88
Mean 2.309
Std Dev 6.445
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

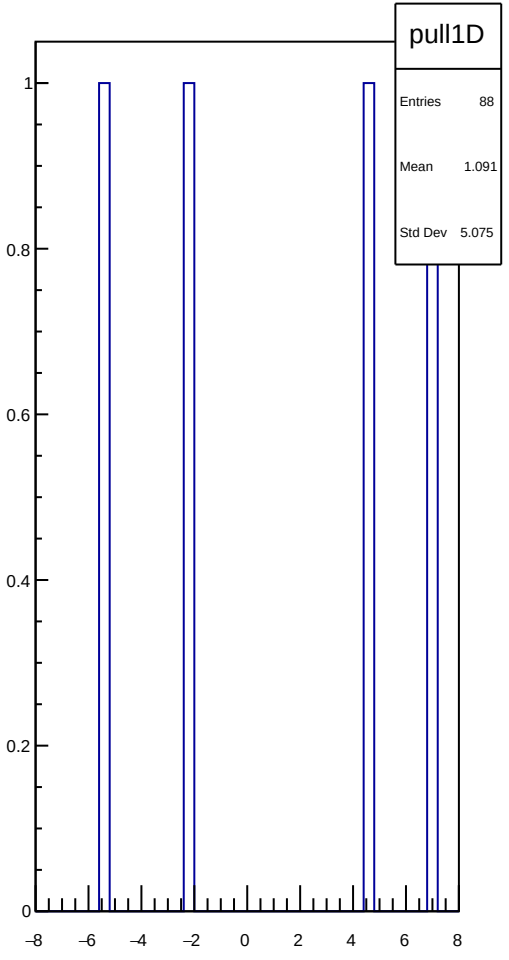

yield_bpm0l03WS_rms vs run
χ² / ndf 2.818e+05 / 87
p0 354.3 ± 0.301
2500
2000
1500
1000
500

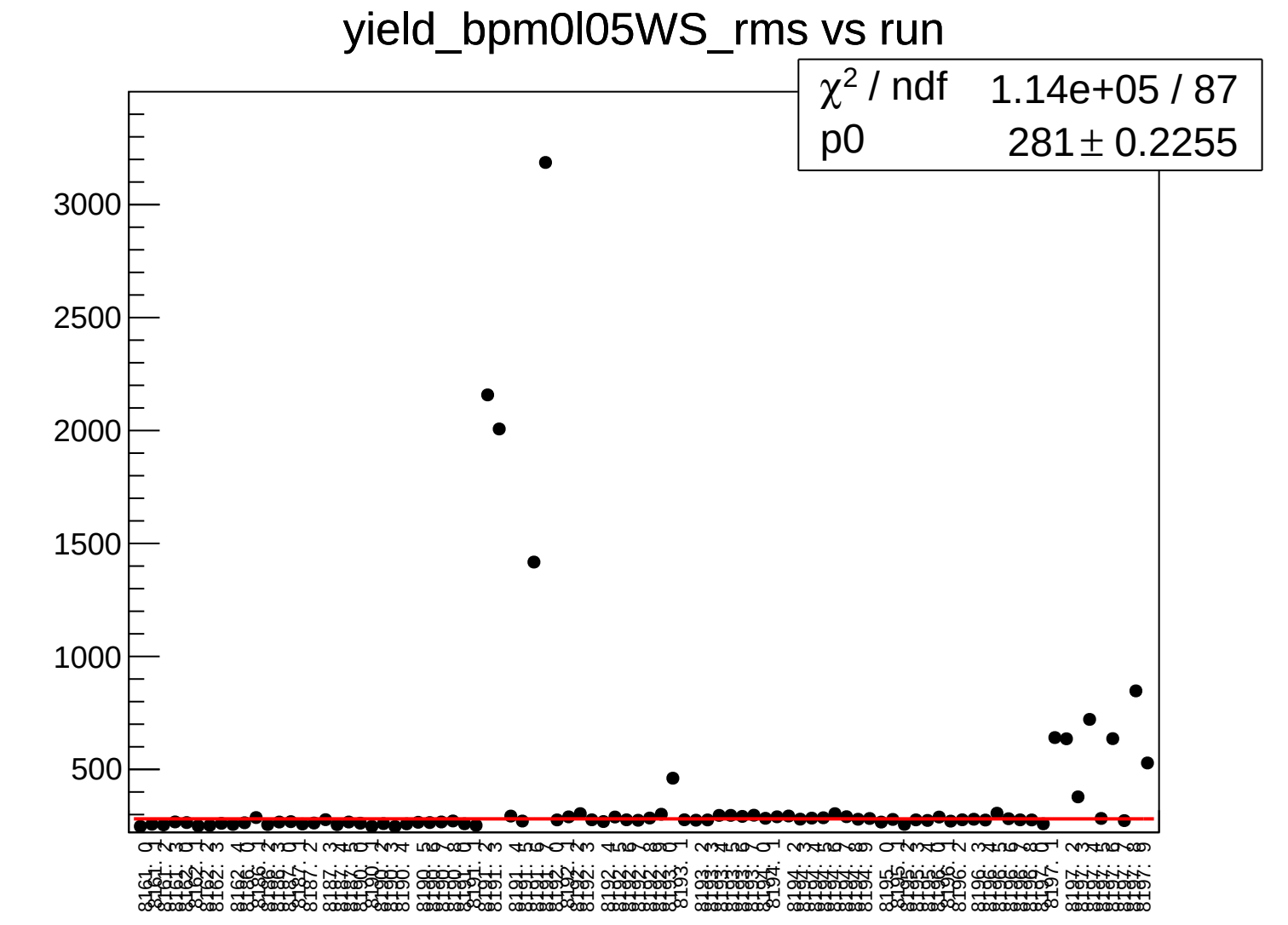

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.523e+06 / 87
p0 1.325e+05 ± 0.3903
133.5
133
132.5
132
131.5
131
130.5
130
129.5
129
pull
Entries 88
Mean 440.6
Std Dev 0
300
200
100
0
−100
−200

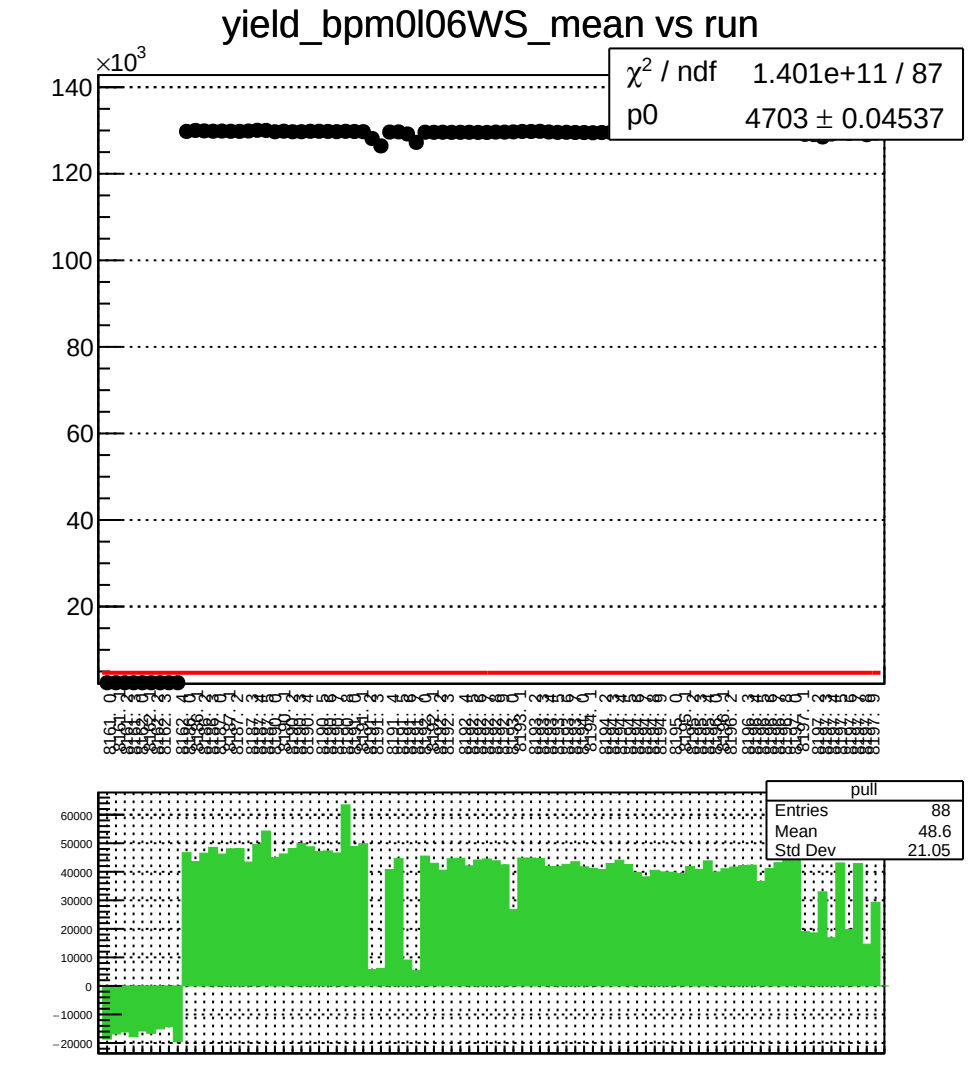

pull1D
Entries 88
Mean 2.337
Std Dev 2.634
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

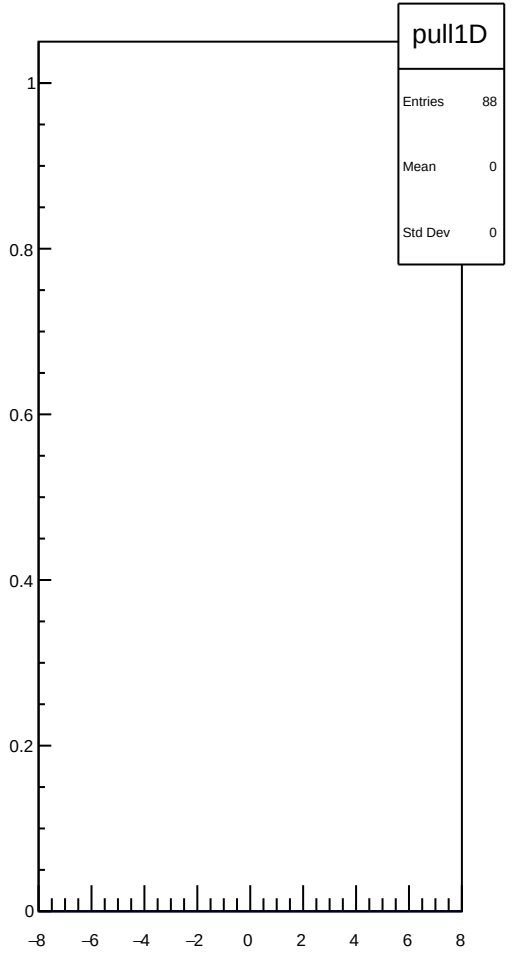

yield_bpm0l04WS_rms vs run
χ² / ndf 1.053e+05 / 87
p0 344.8 ± 0.276
3000
2500
2000
1500
1000
500

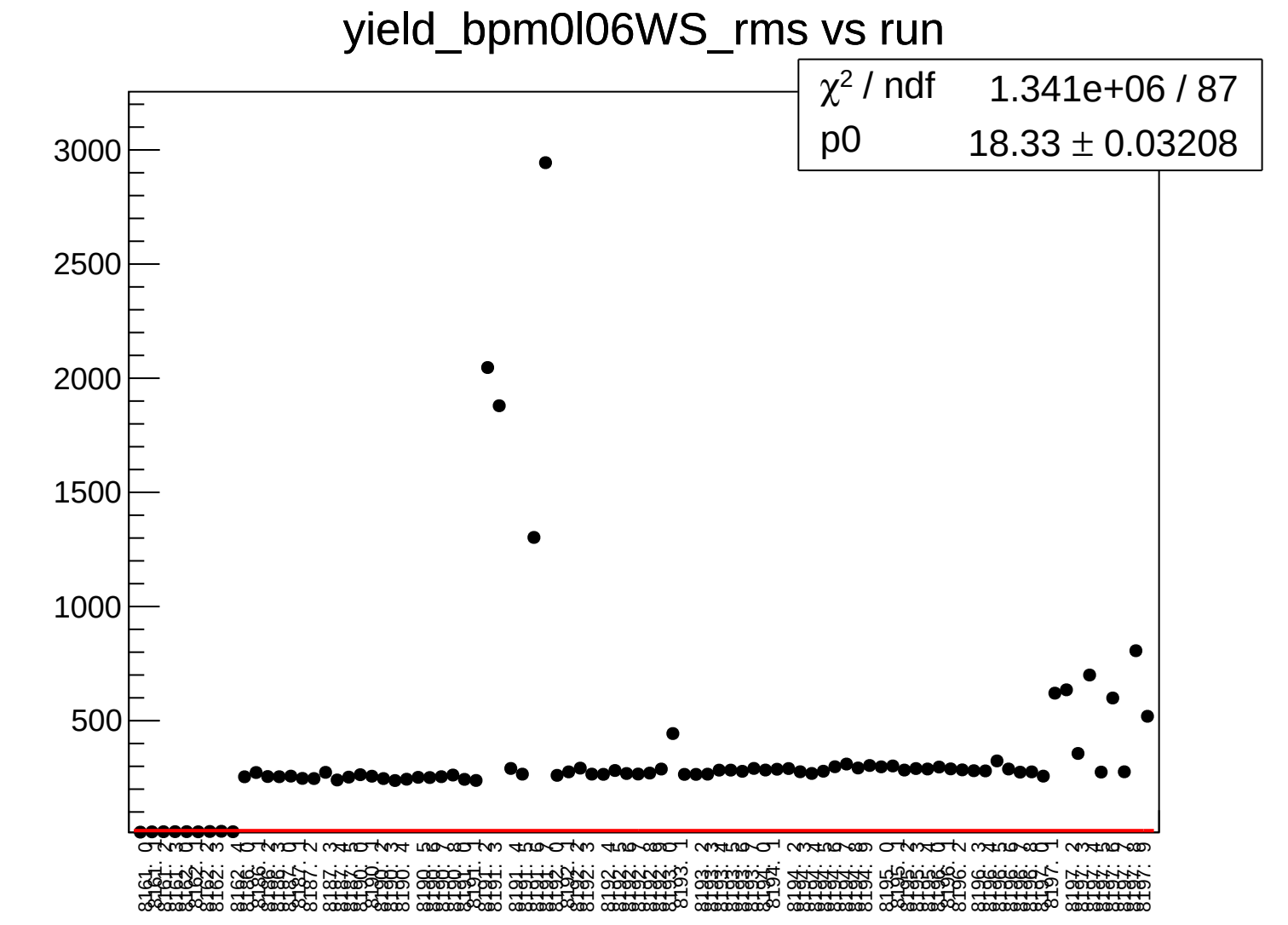

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.604e+05 / 87
p0 1.391e+05 ± 0.3189
139.5
139
138.5
138
137.5
137
136.5
136
135.5
pull
Entries 88
Mean −21.89
Std Dev 0
50
0
−50
−100
−150
−200
−250

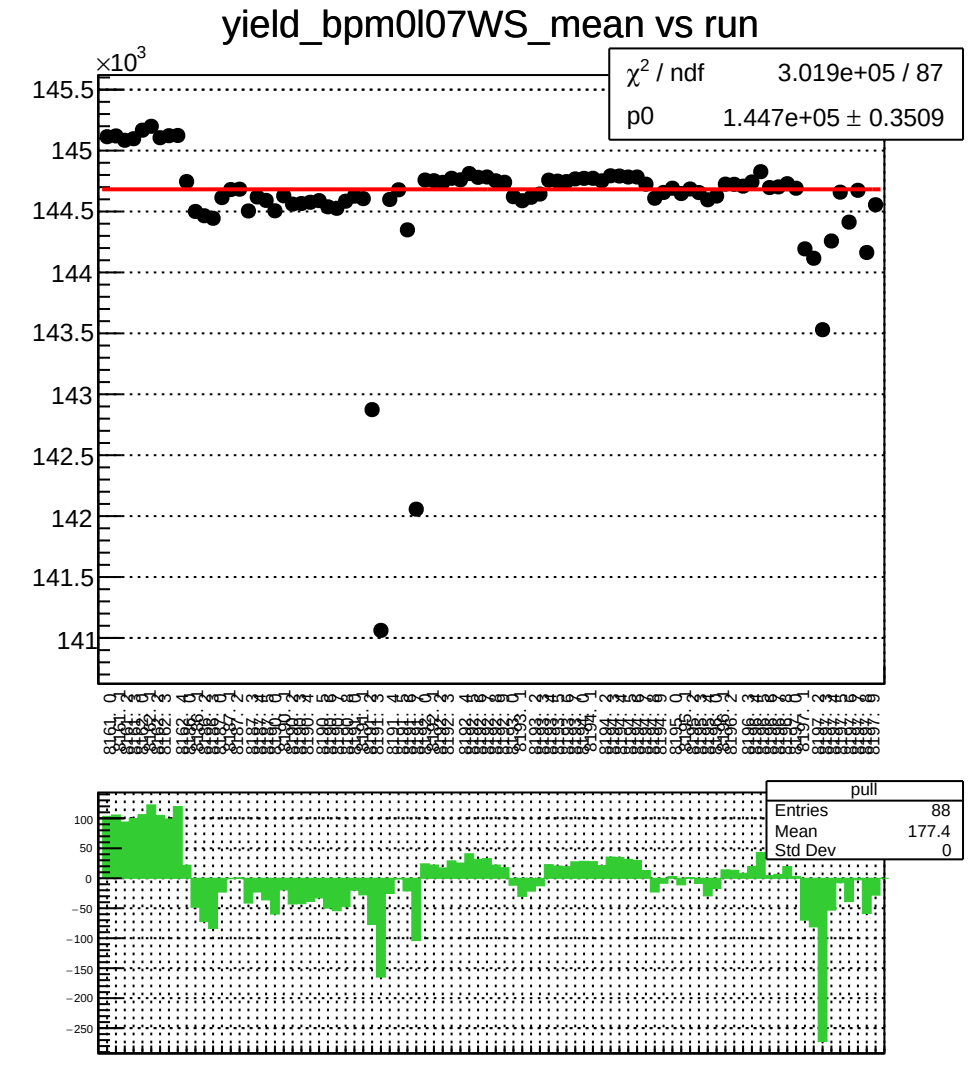

pull1D
Entries 88
Mean 1.091
Std Dev 5.075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

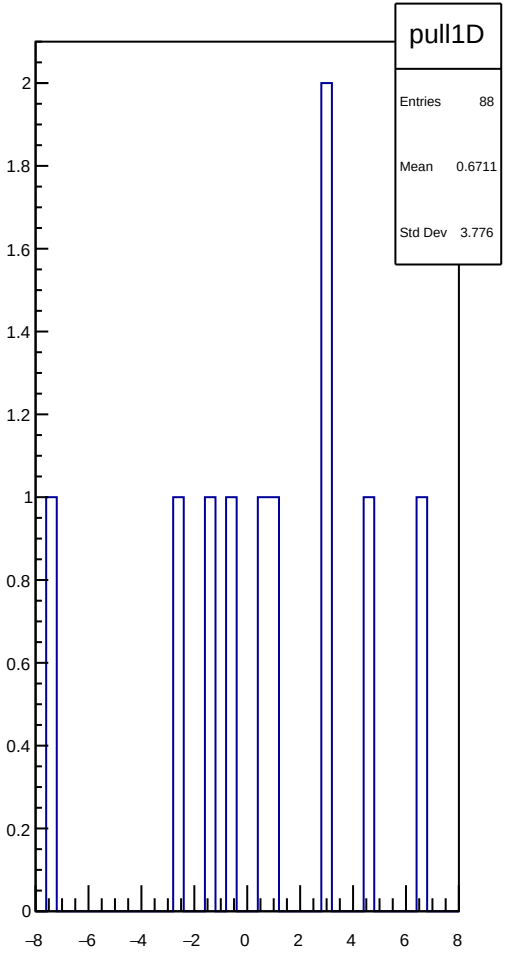

yield_bpm0l05WS_rms vs run
χ² / ndf 1.14e+05 / 87
p0 281 ± 0.2255
3000
2500
2000
1500
1000
500

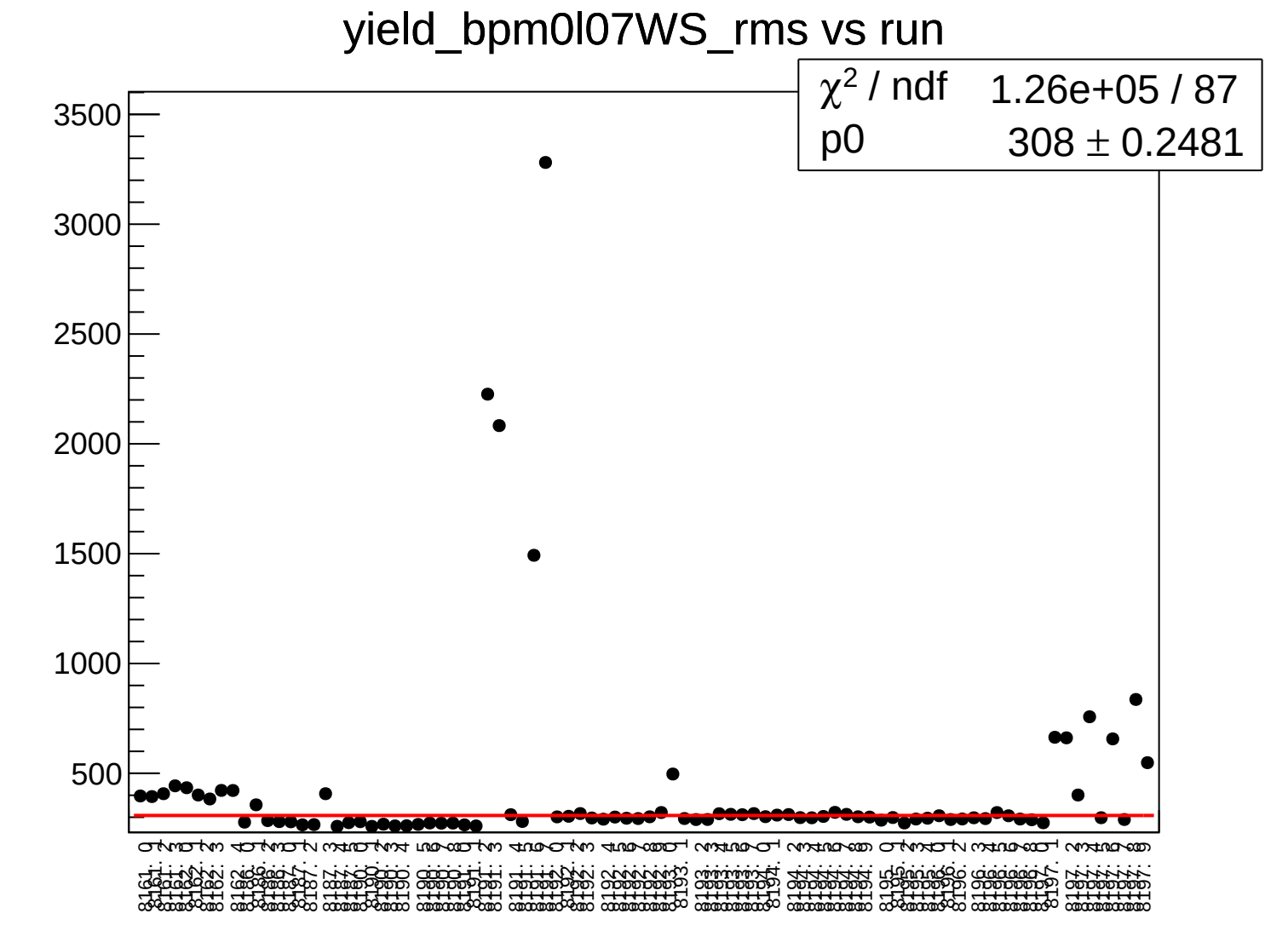

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.401e+11 / 87
p0 4703 ± 0.04537
140
120
100
80
60
40
20
pull
Entries 88
Mean 48.6
Std Dev 21.05
60000
50000
40000
30000
20000
10000
0
−10000
−20000

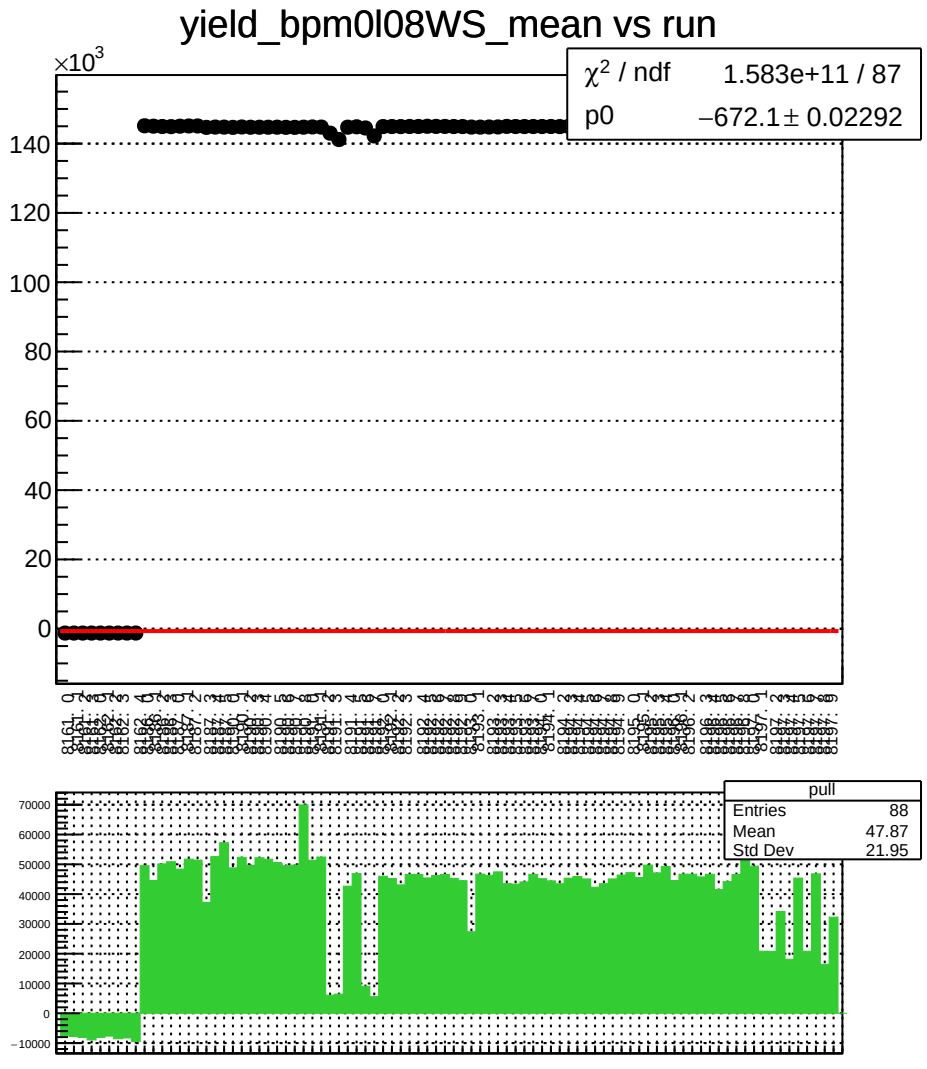

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

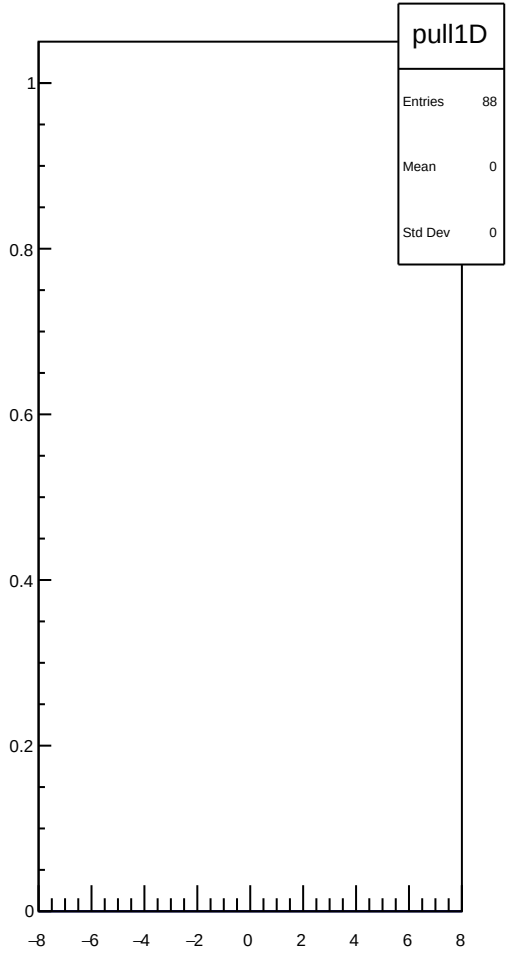

yield_bpm0l06WS_rms vs run
χ² / ndf 1.341e+06 / 87
p0 18.33 ± 0.03208
3000
2500
2000
1500
1000
500

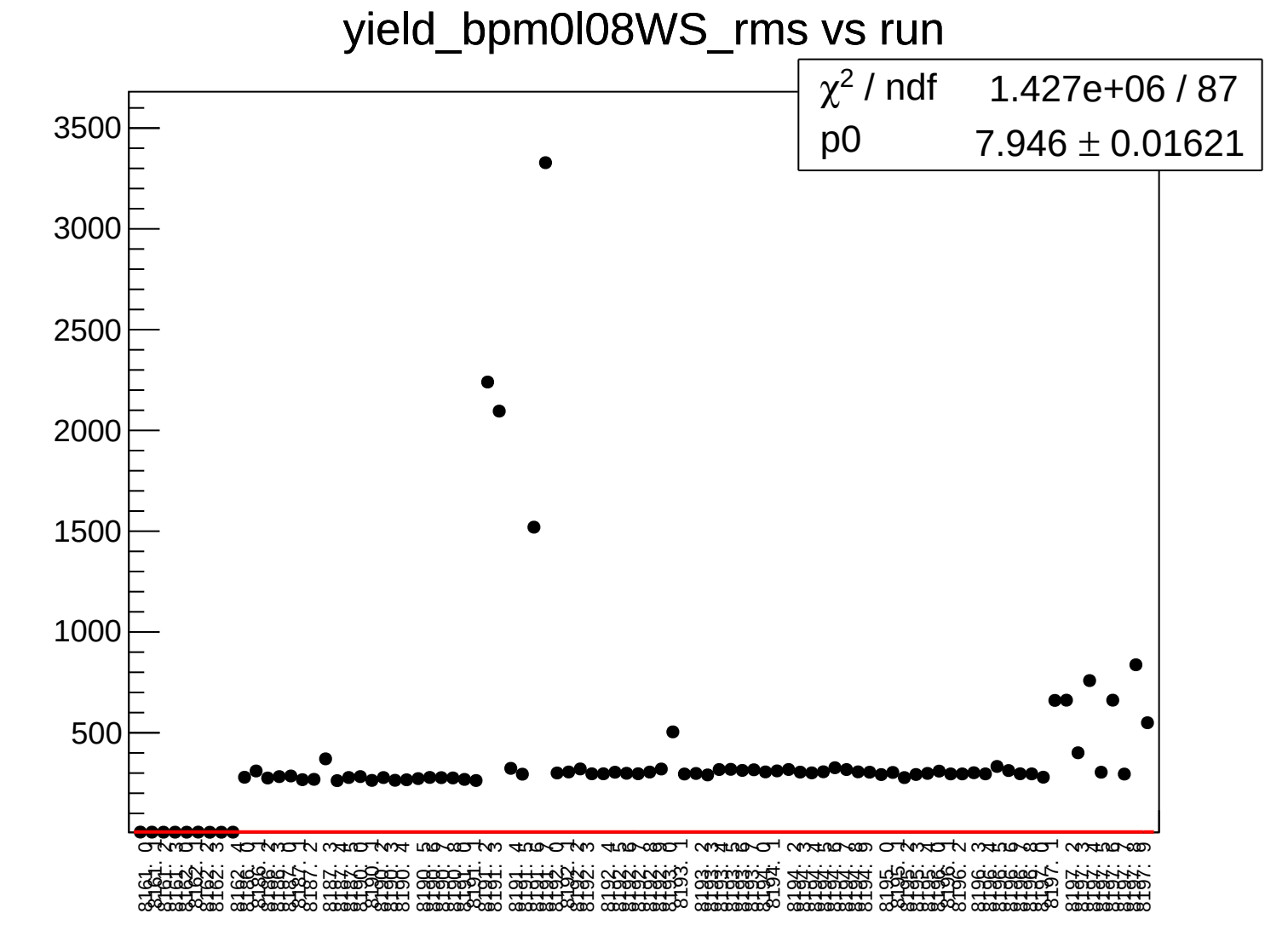

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.019e+05 / 87
p0 1.447e+05 ± 0.3509
145.5
145
144.5
144
143.5
143
142.5
142
141.5
141
pull
Entries 88
Mean 177.4
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

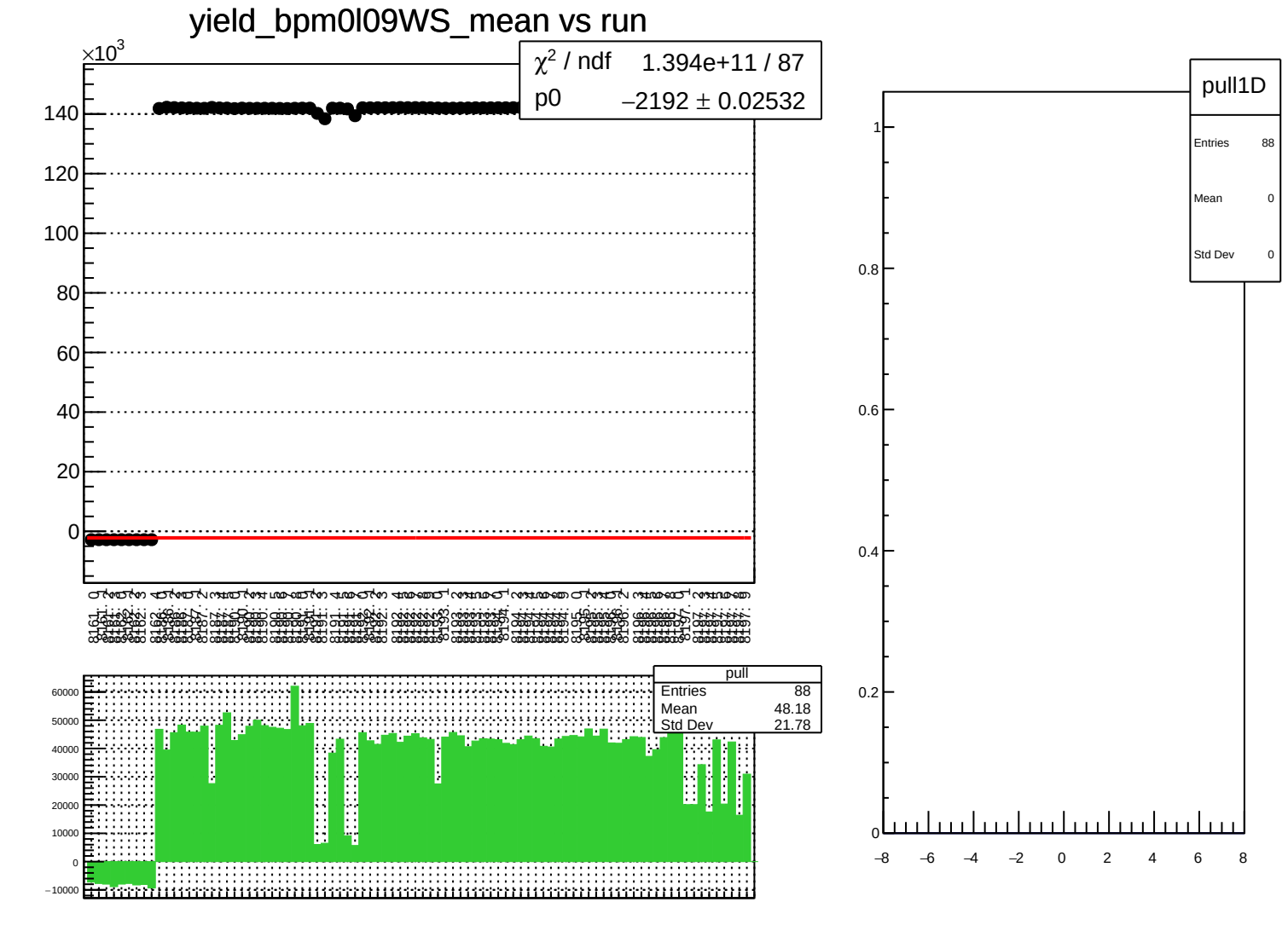

pull1D
Entries 88
Mean 0.6711
Std Dev 3.776
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

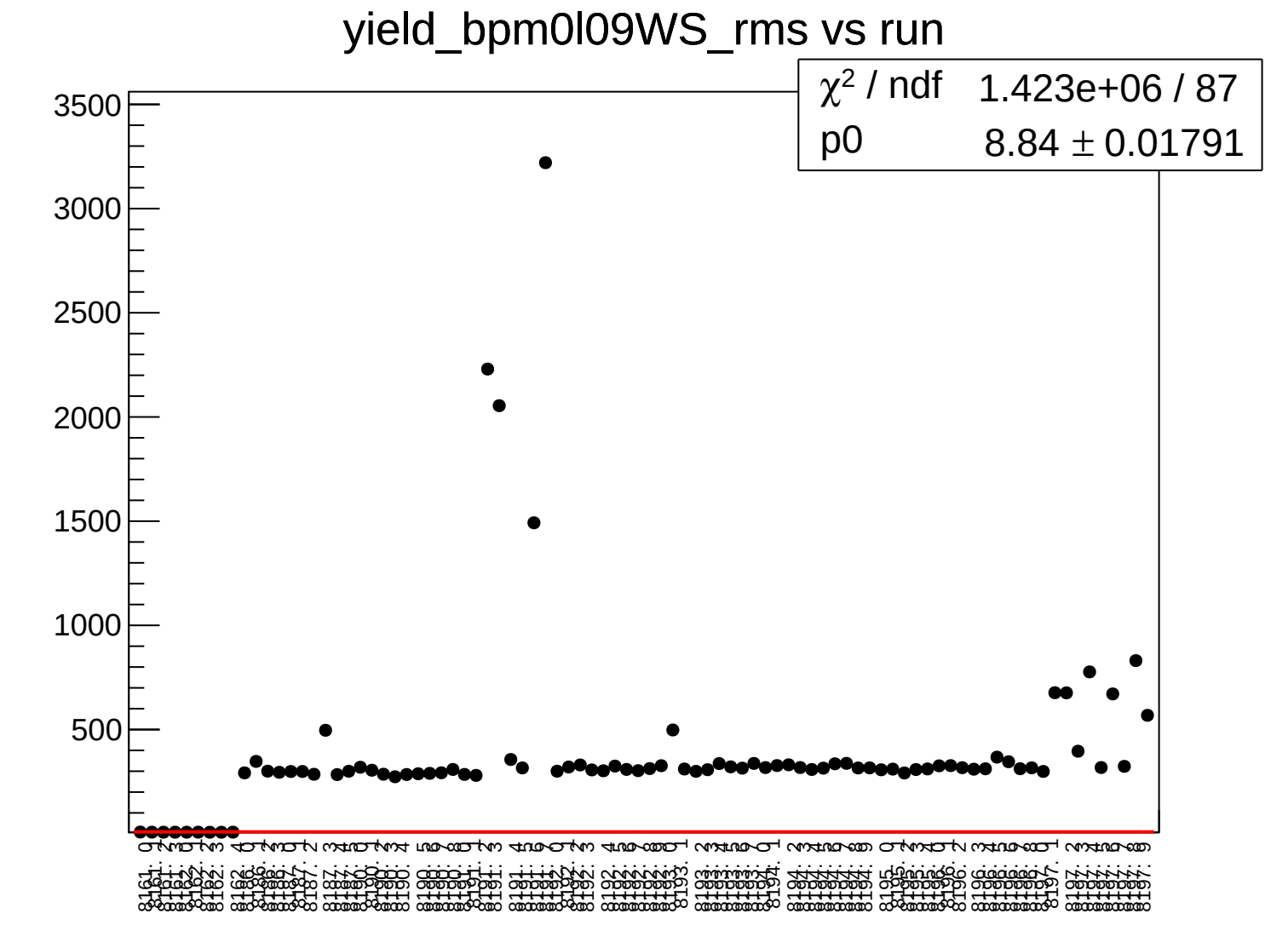

yield_bpm0l07WS_rms vs run
χ² / ndf 1.26e+05 / 87
p0 308 ± 0.2481
3500
3000
2500
2000
1500
1000
500

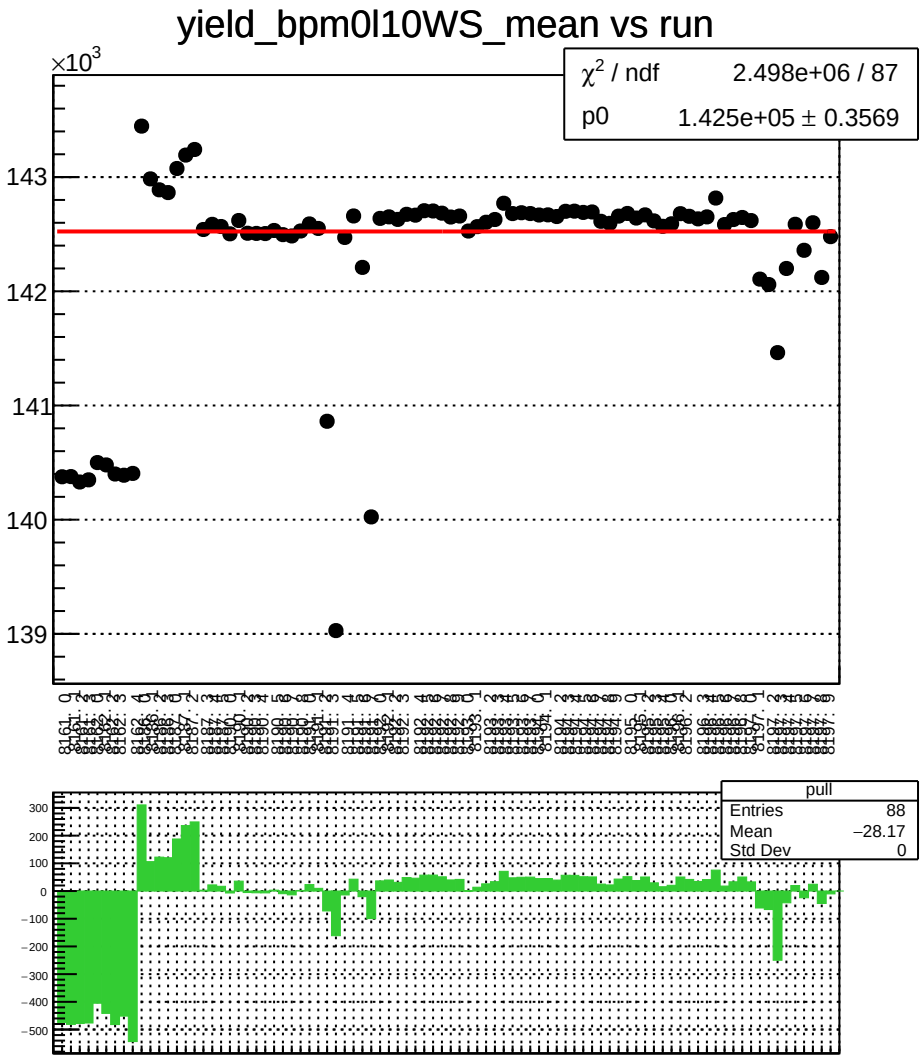

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.583e+11 / 87
p0 −672.1 ± 0.02292
140
120
100
80
60
40
20
0
pull
Entries 88
Mean 47.87
Std Dev 21.95
70000
60000
50000
40000
30000
20000
10000
0
−10000

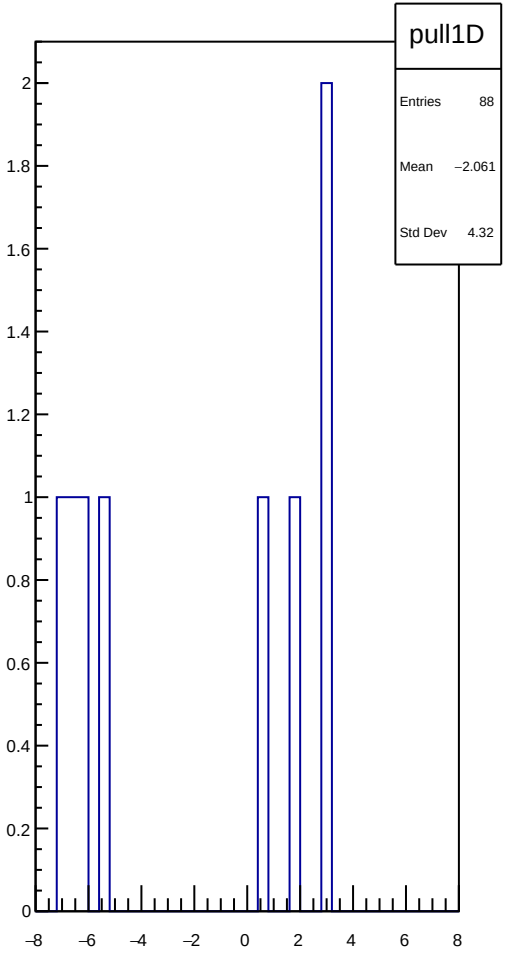

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

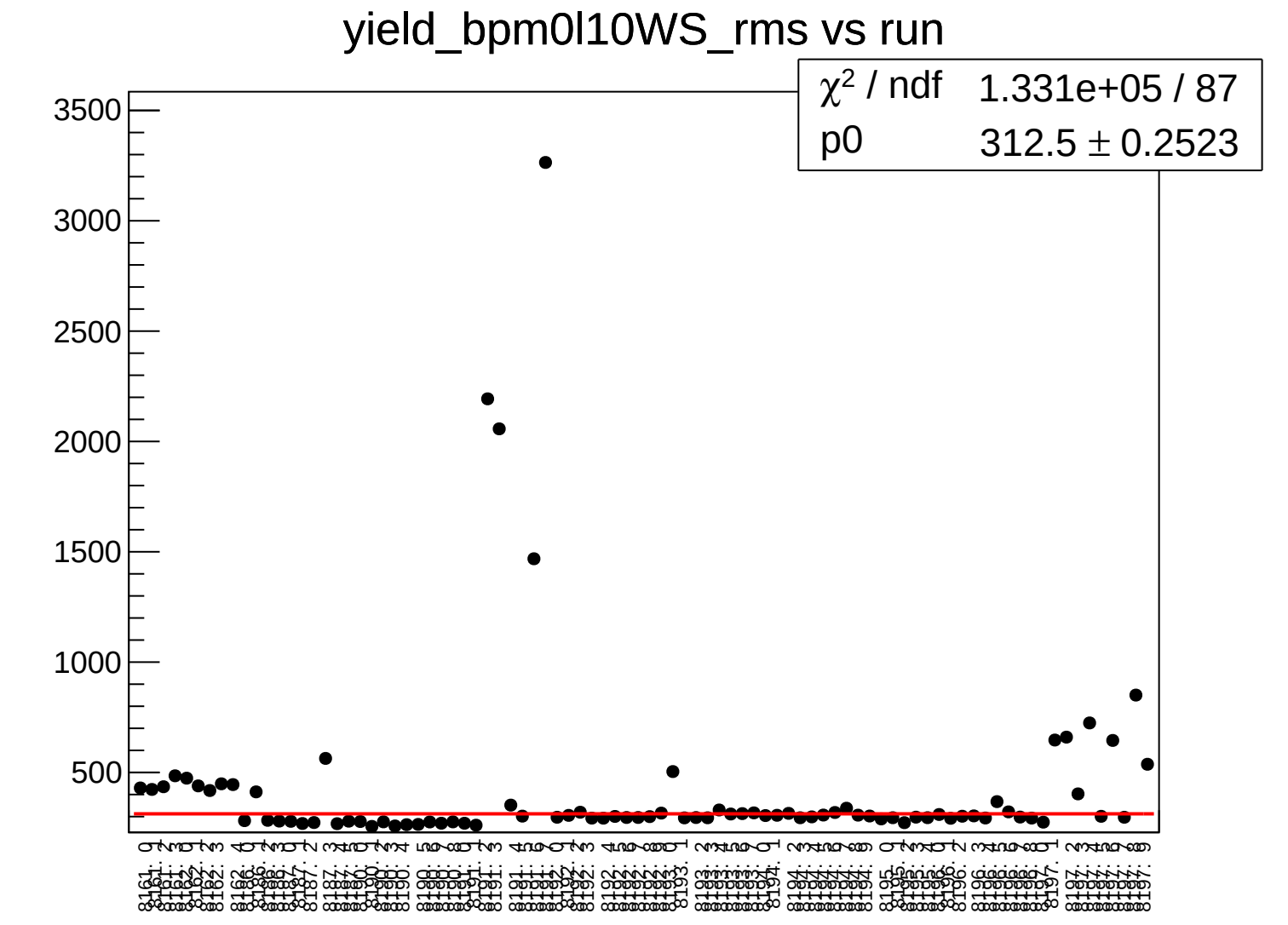

yield_bpm0l08WS_rms vs run
χ^2 / ndf 1.427e+06 / 87
p0 7.946 ± 0.01621
3500
3000
2500
2000
1500
1000
500

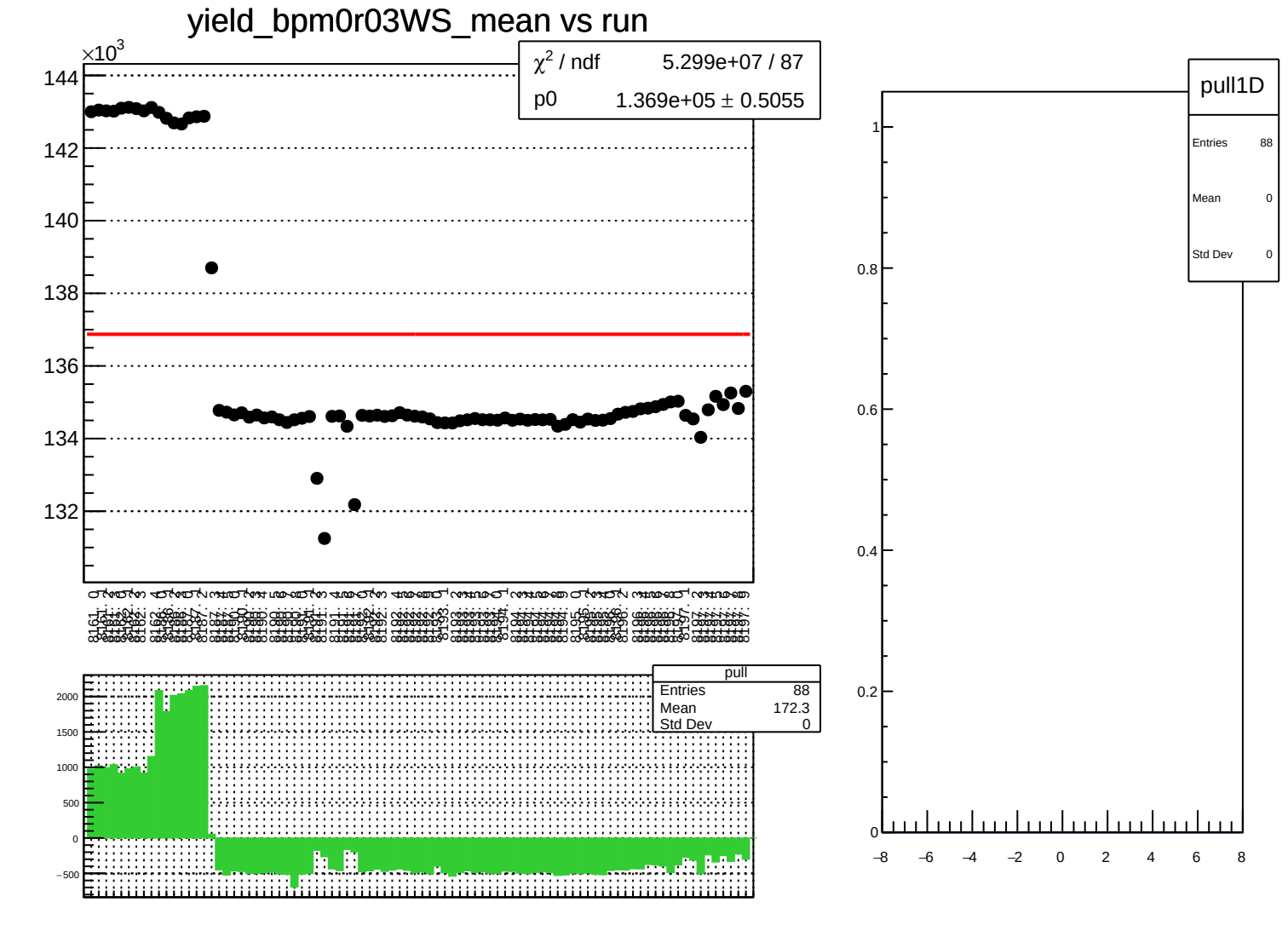

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.394e+11 / 87
p0 −2192 ± 0.02532
140
120
100
80
60
40
20
0
pull
Entries 88
Mean 48.18
Std Dev 21.78
60000
50000
40000
30000
20000
10000
0
−10000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

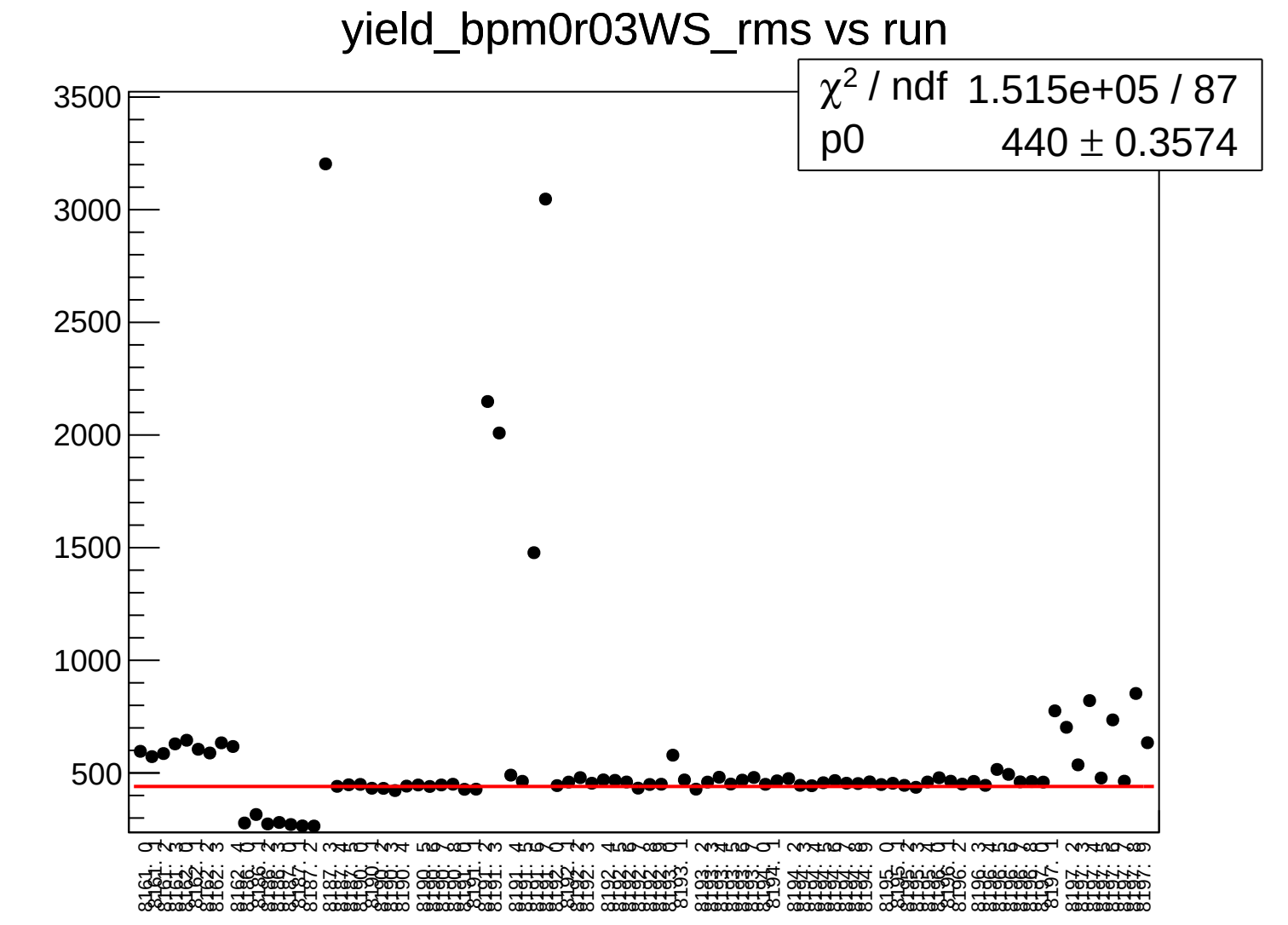

yield_bpm0l09WS_rms vs run
χ² / ndf 1.423e+06 / 87
p0 8.84 ± 0.01791
3500
3000
2500
2000
1500
1000
500

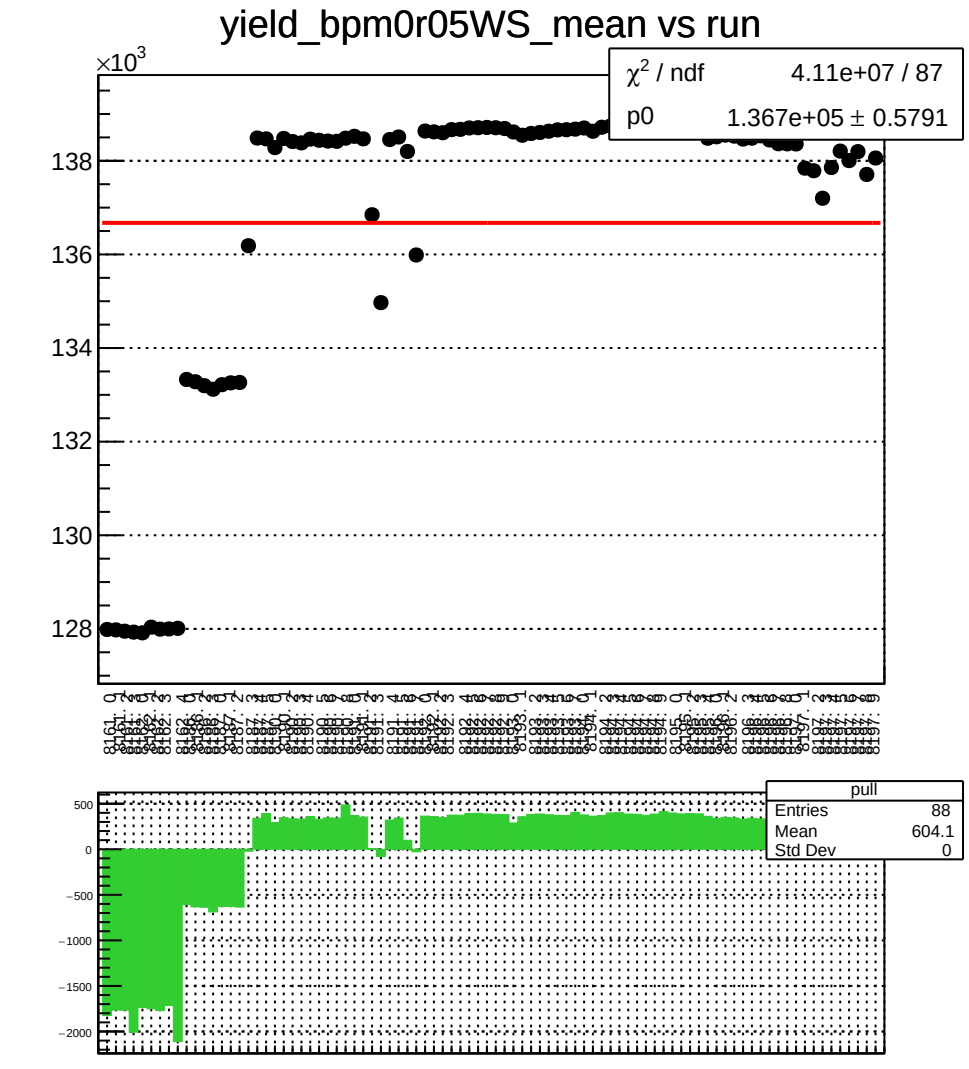

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 2.498e+06 / 87
p0 1.425e+05 ± 0.3569
143
142
141
140
139
pull
Entries 88
Mean −28.17
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

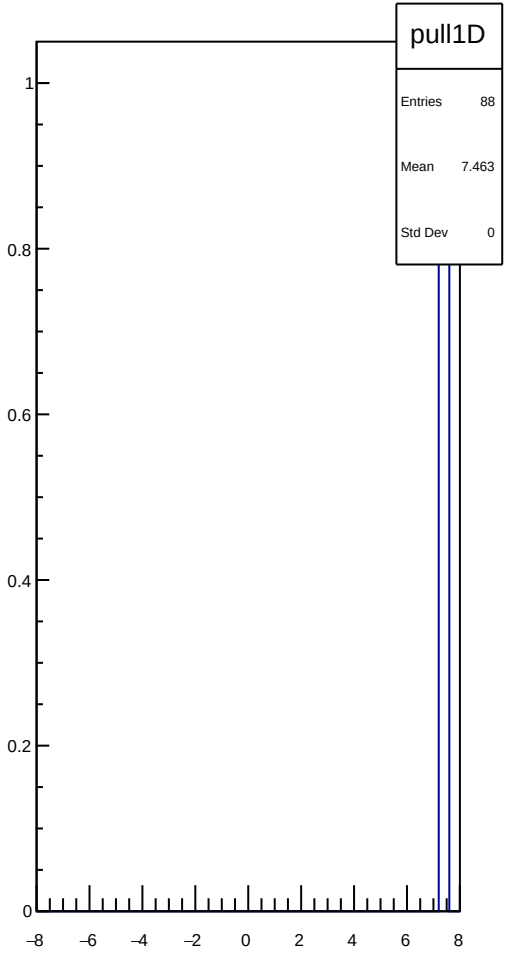

pull1D
Entries 88
Mean −2.061
Std Dev 4.32
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

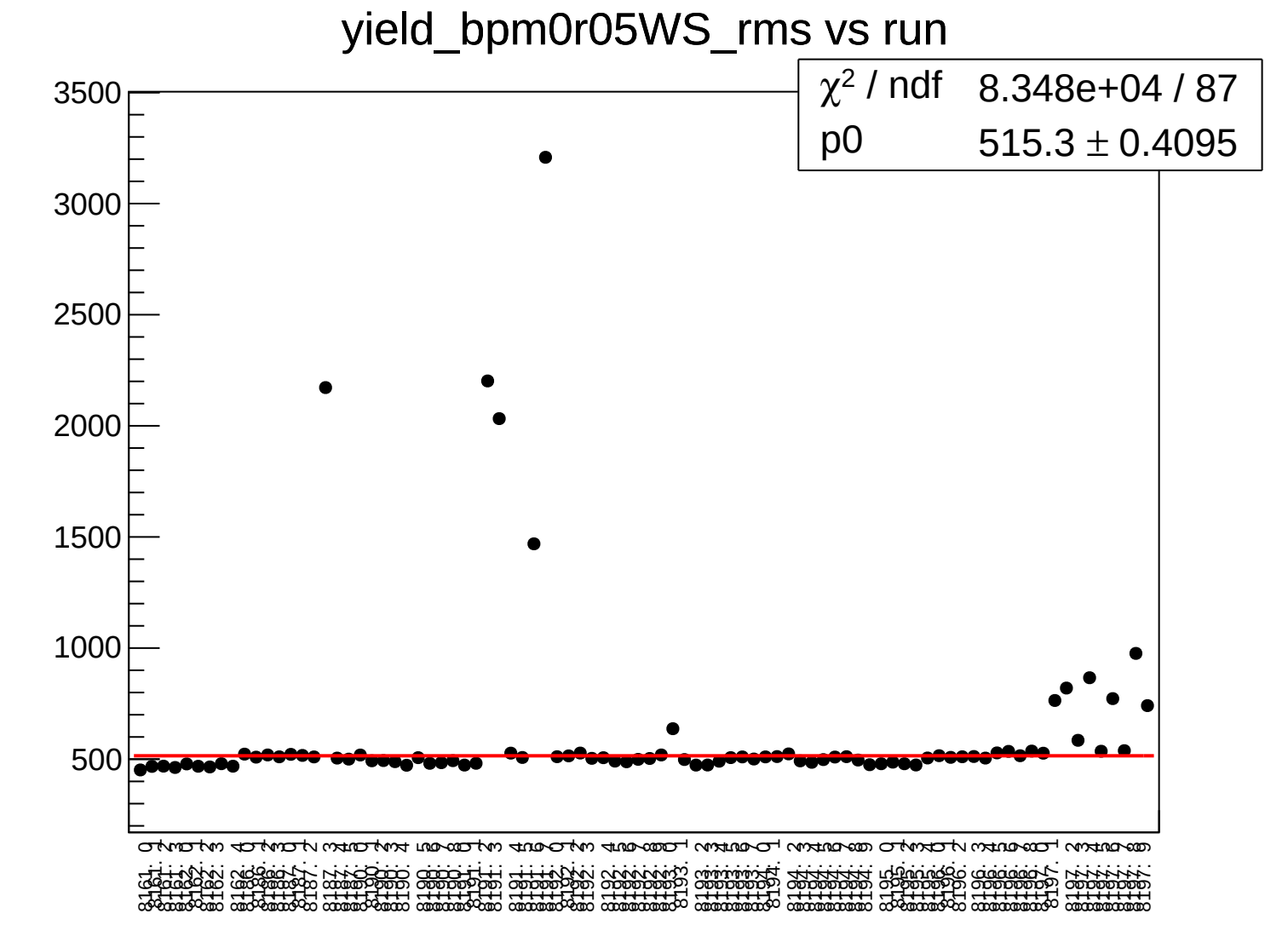

yield_bpm0l10WS_rms vs run
χ² / ndf 1.331e+05 / 87
p0 312.5 ± 0.2523
3500
3000
2500
2000
1500
1000
500

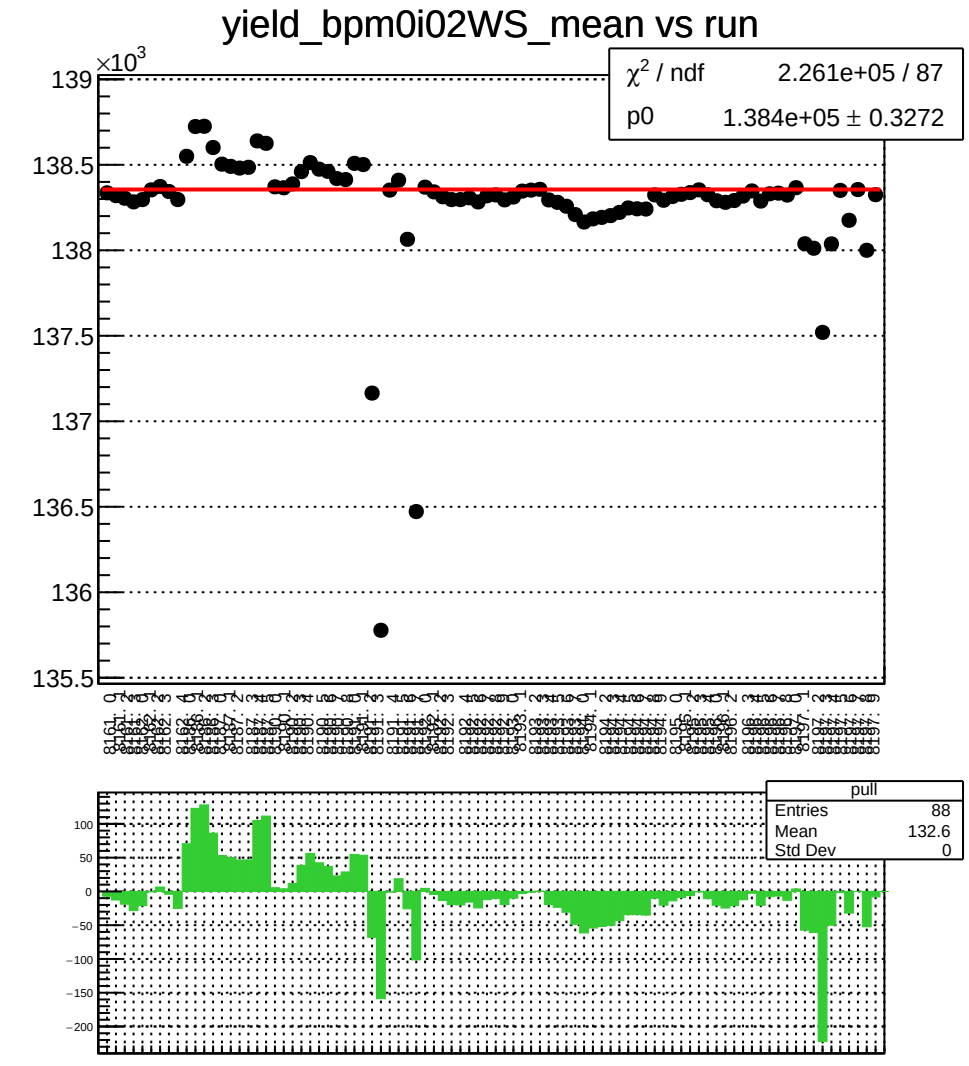

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 5.299e+07 / 87
p0 1.369e+05 ± 0.5055
144
142
140
138
136
134
132
pull
Entries 88
Mean 172.3
Std Dev 0
2000
1500
1000
500
0
−500
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

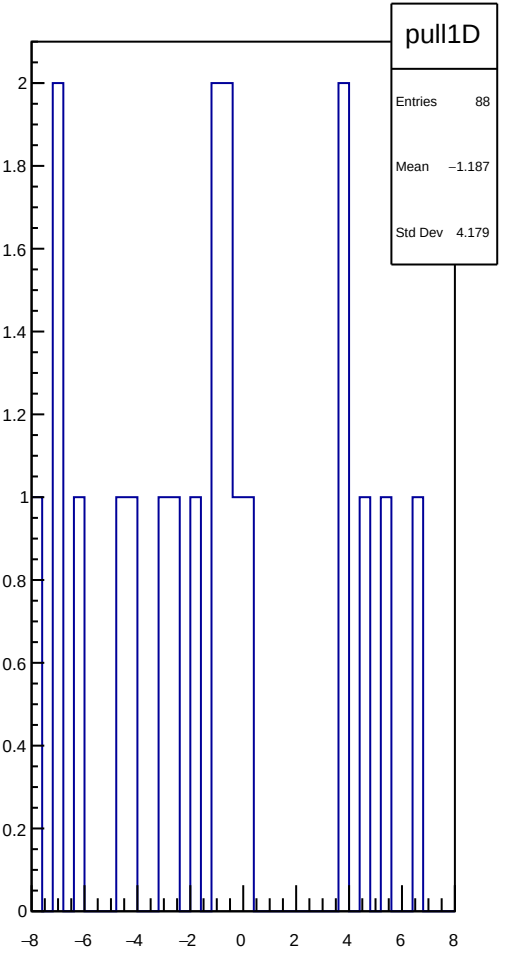

yield_bpm0r03WS_rms vs run
χ² / ndf 1.515e+05 / 87
p0 440 ± 0.3574
3500
3000
2500
2000
1500
1000
500

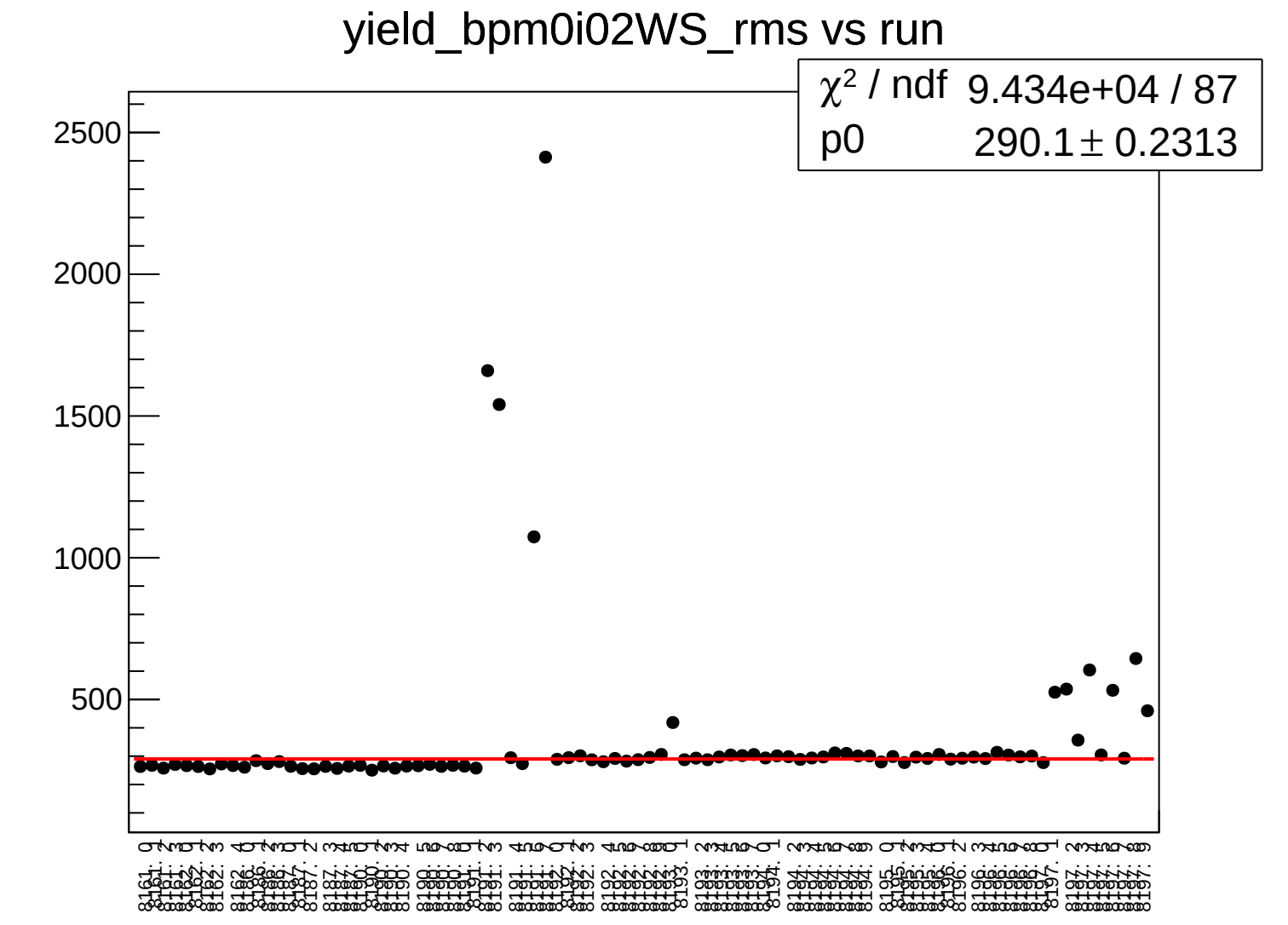

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 4.11e+07 / 87
p0 1.367e+05 ± 0.5791
138
136
134
132
130
128
pull
Entries 88
Mean 604.1
Std Dev 0
500
0
−500
−1000
−1500
−2000

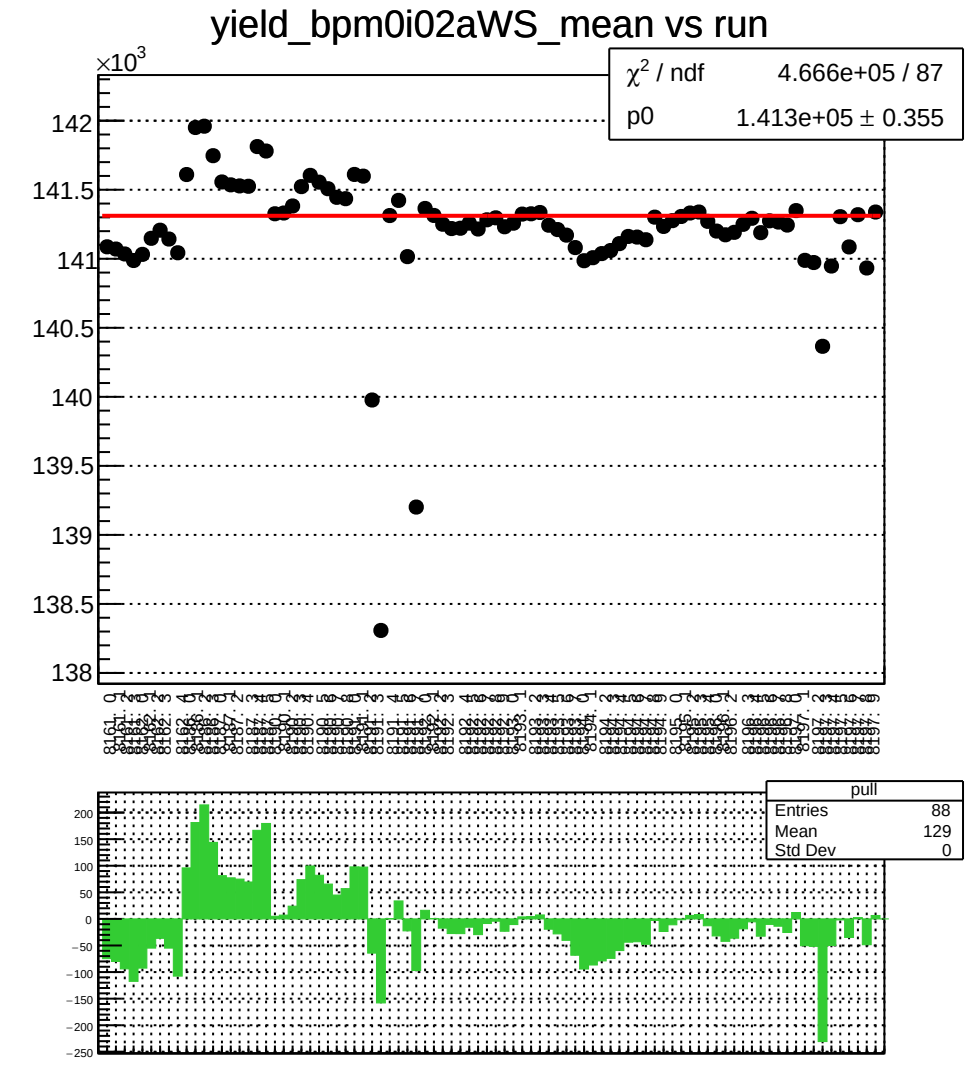

pull1D
Entries 88
Mean 7.463
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

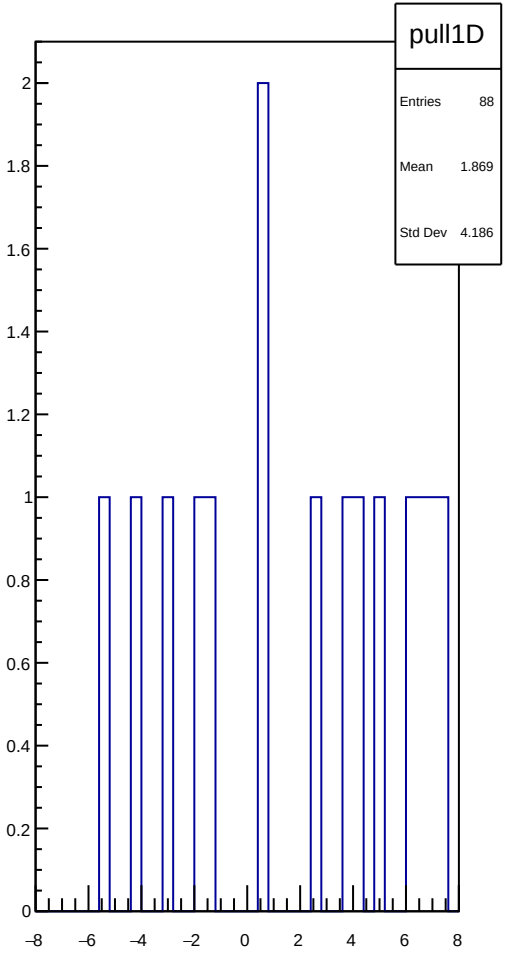

yield_bpm0r05WS_rms vs run
χ² / ndf 8.348e+04 / 87
p0 515.3 ± 0.4095
3500
3000
2500
2000
1500
1000
500

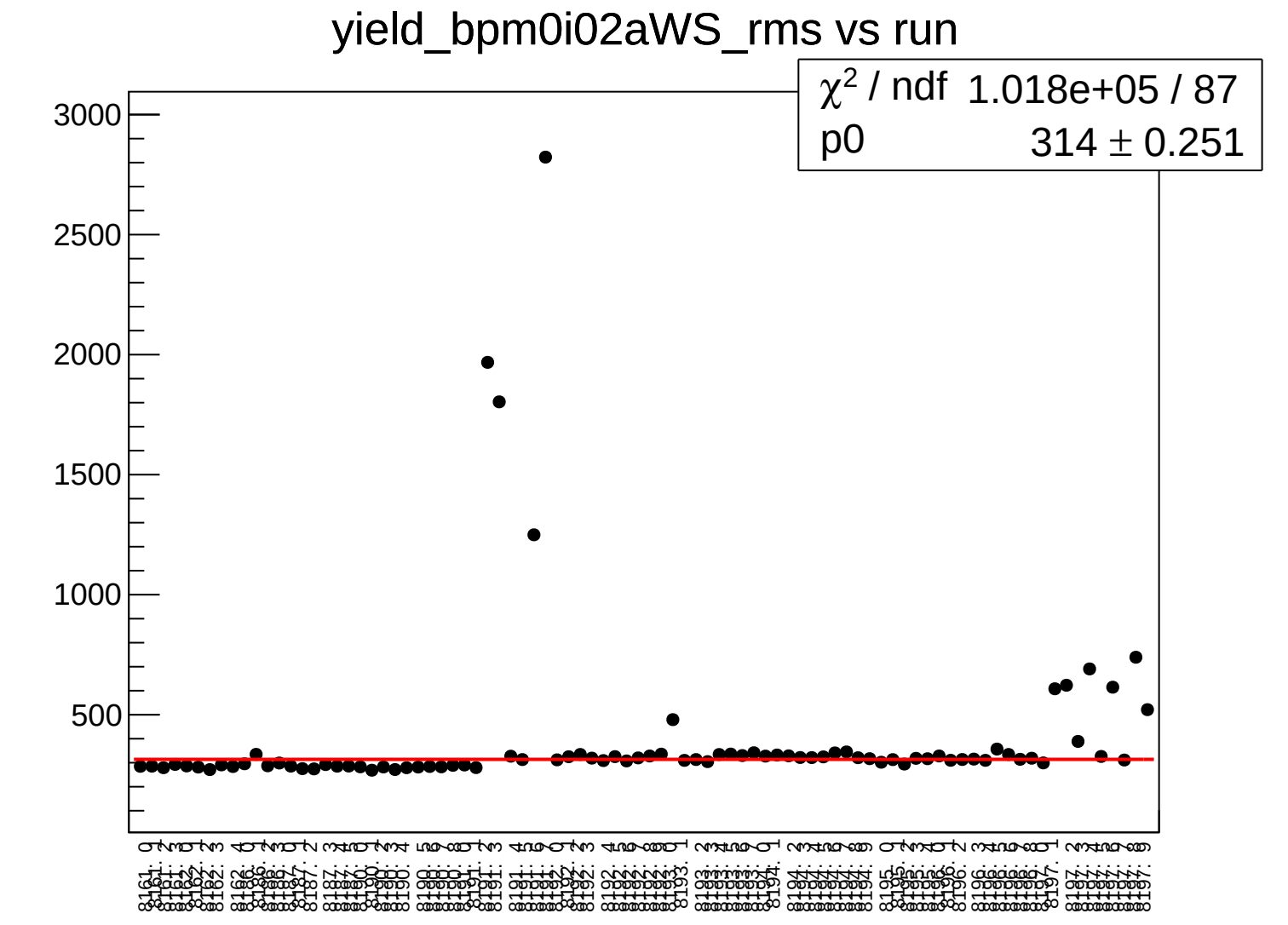

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.261e+05 / 87
p0 1.384e+05 ± 0.3272
pull
Entries 88
Mean 132.6
Std Dev 0

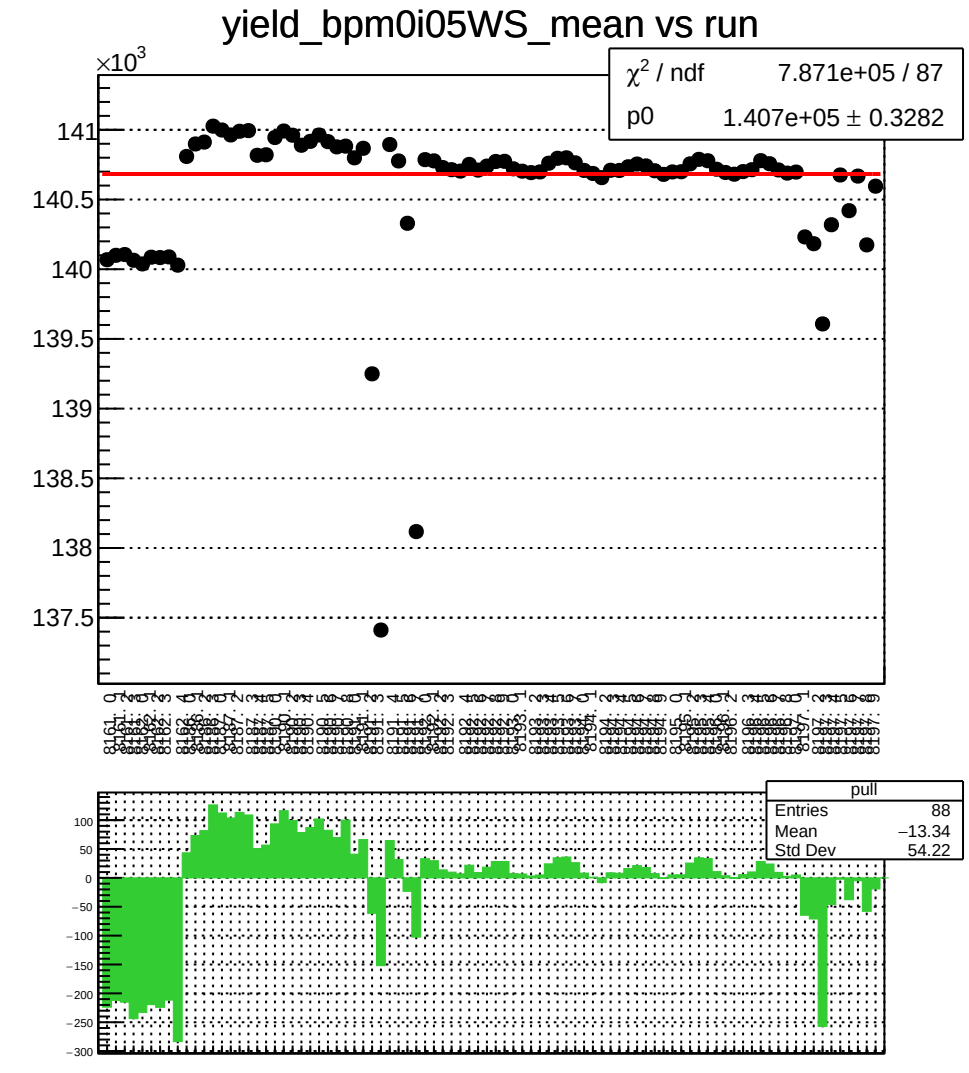

pull1D
Entries 88
Mean −1.187
Std Dev 4.179

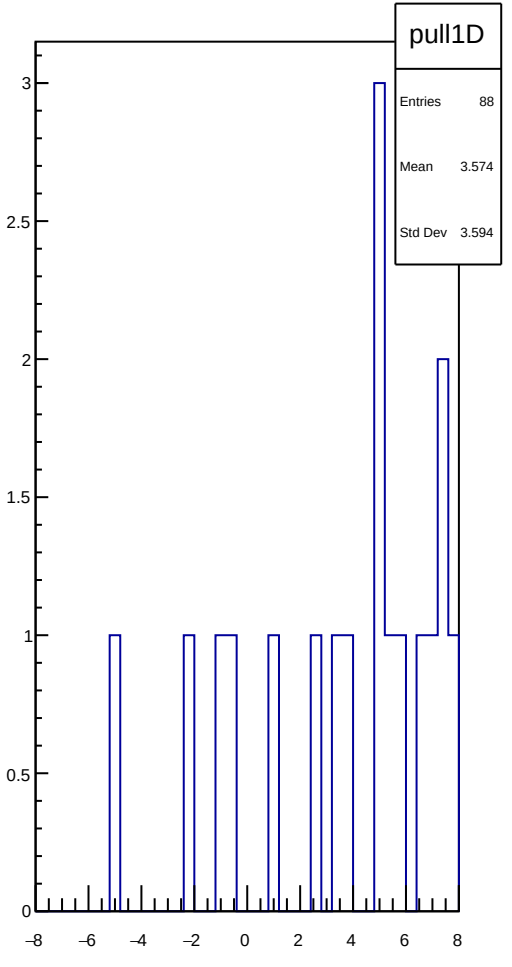

yield_bpm0i02WS_rms vs run
χ² / ndf 9.434e+04 / 87
p0 290.1 ± 0.2313
2500
2000
1500
1000
500

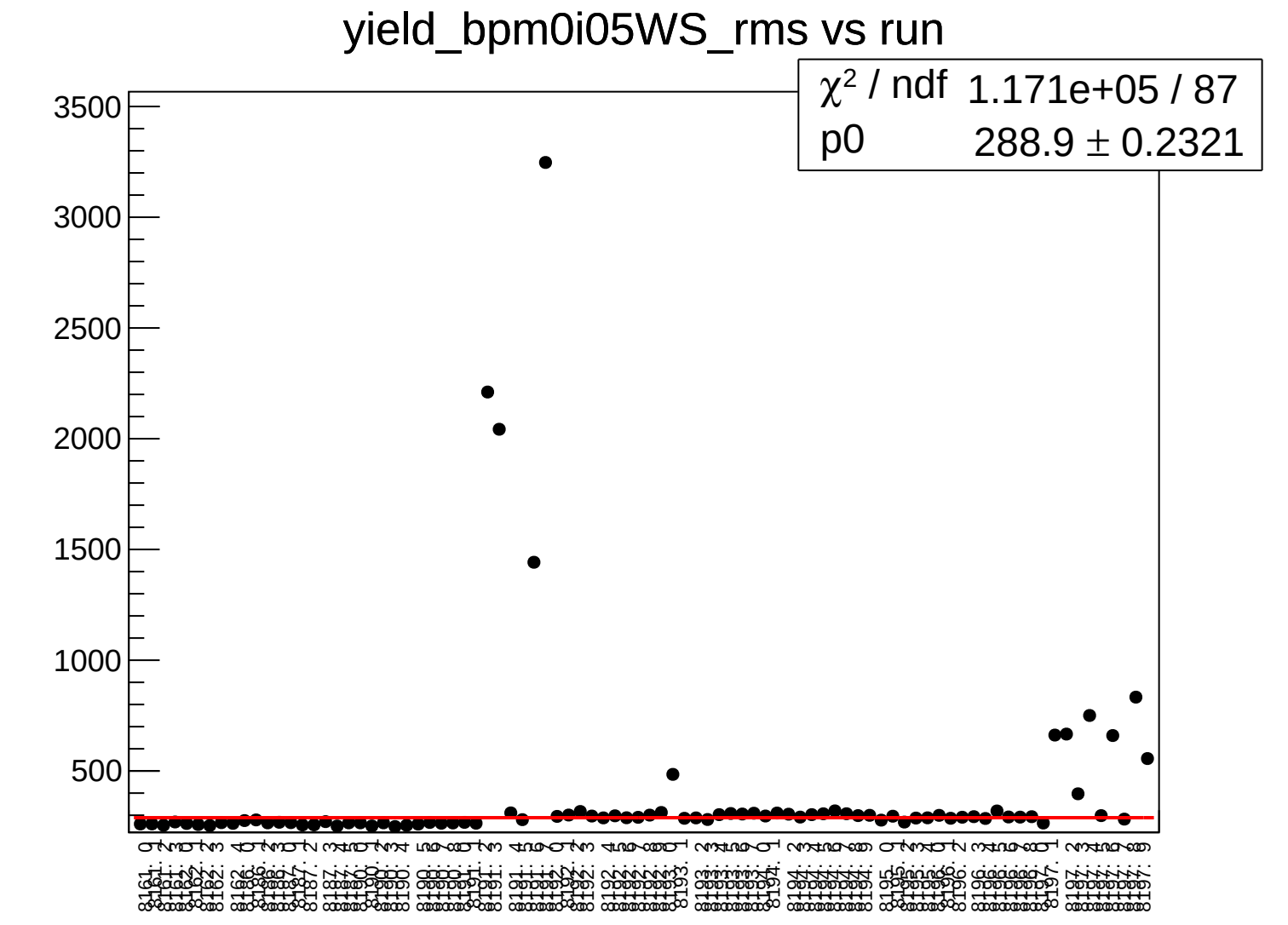

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.666e+05 / 87
p0 1.413e+05 ± 0.355
142
141.5
141
140.5
140
139.5
139
138.5
138
pull
Entries 88
Mean 129
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

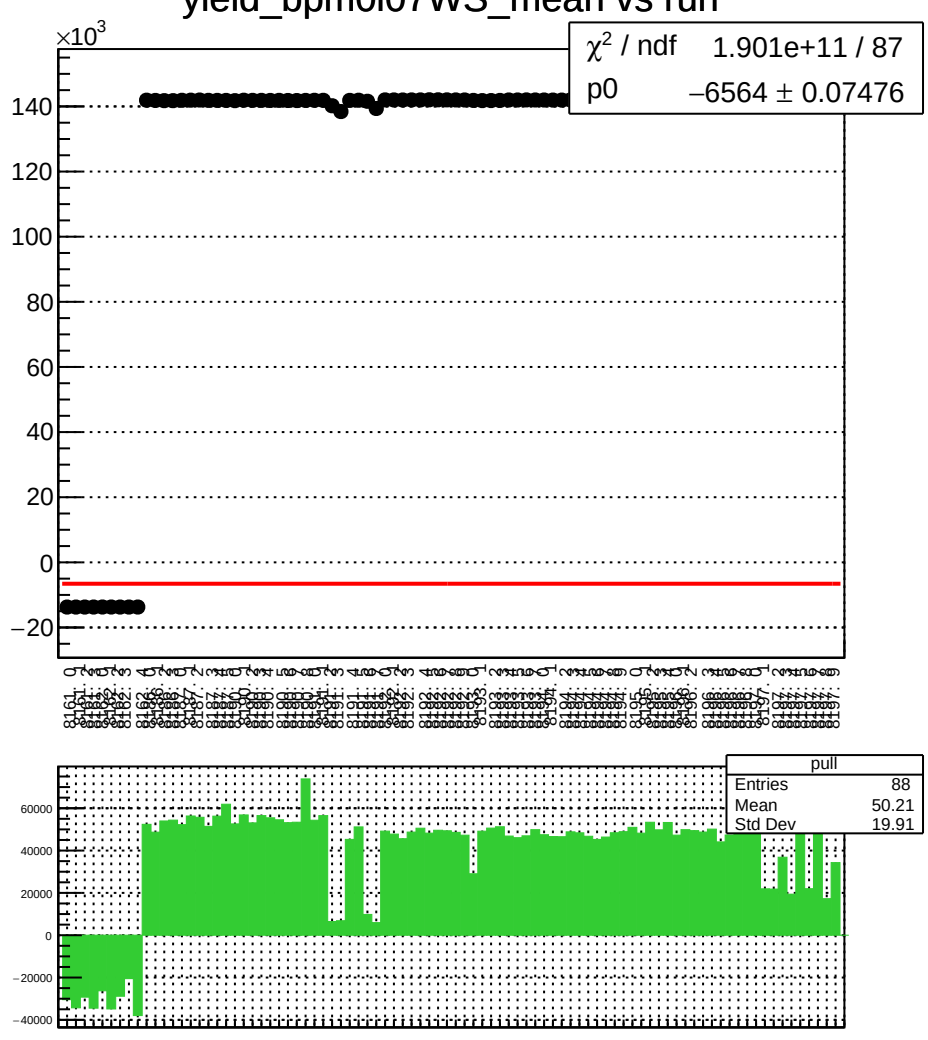

pull1D
Entries 88
Mean 1.869
Std Dev 4.186
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

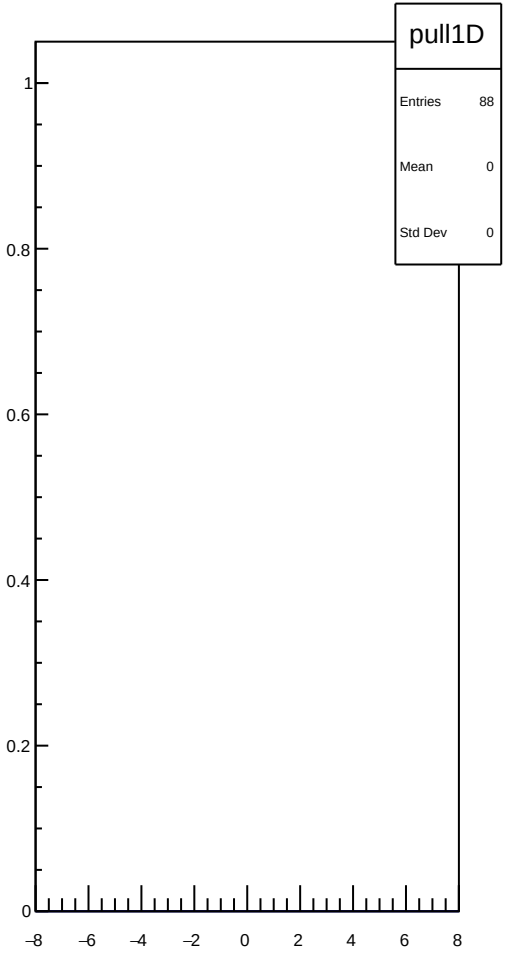

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.018e+05 / 87
p0 314 ± 0.251
3000
2500
2000
1500
1000
500

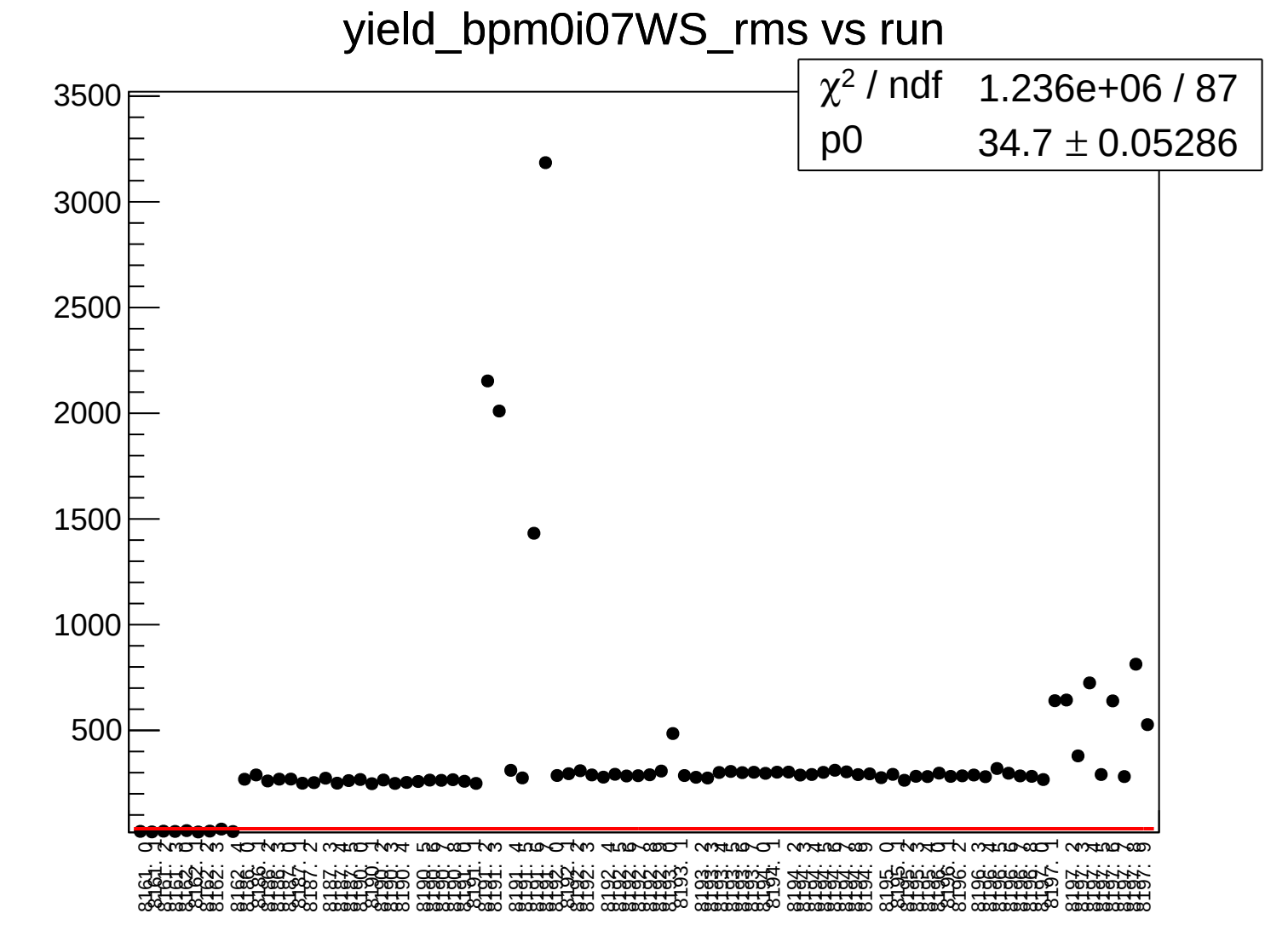

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.871e+05 / 87
p0 1.407e+05 ± 0.3282
141
140.5
140
139.5
139
138.5
138
137.5
pull
Entries 88
Mean −13.34
Std Dev 54.22
100
50
0
−50
−100
−150
−200
−250
−300

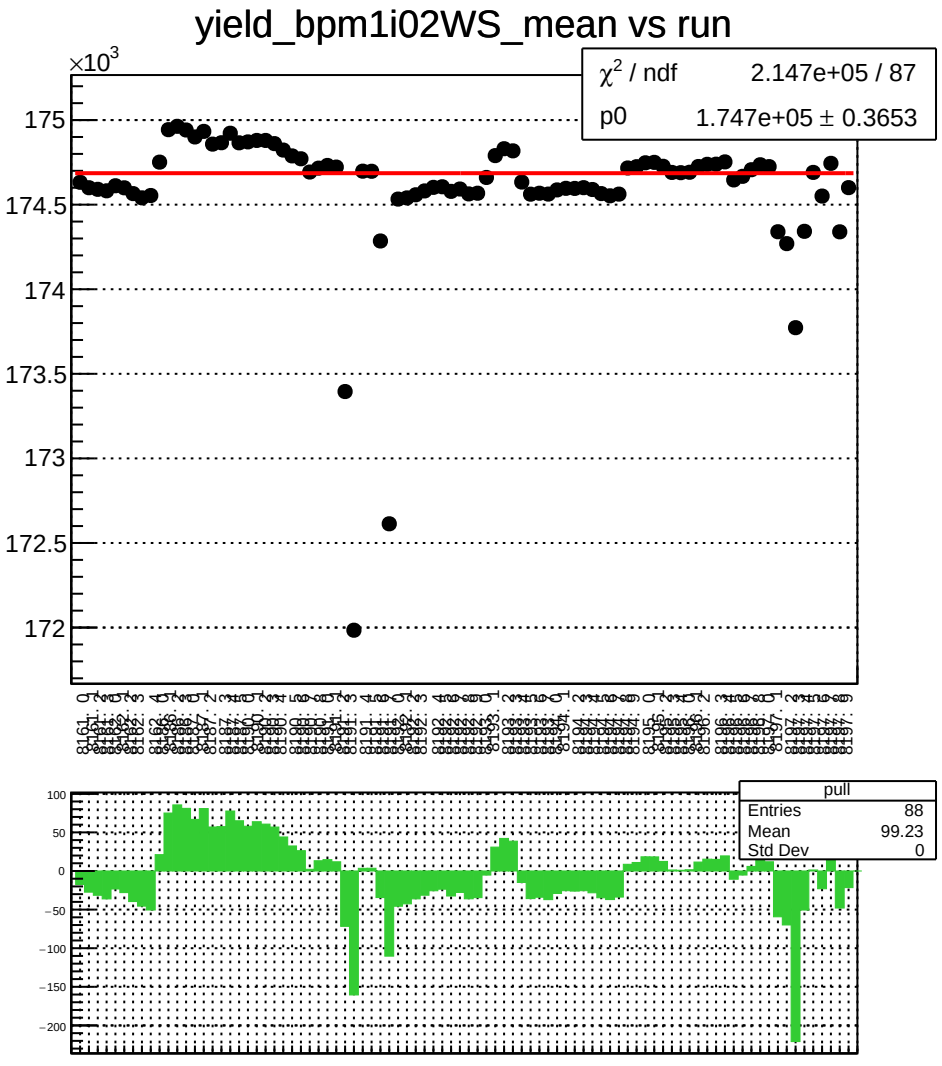

pull1D
Entries 88
Mean 3.574
Std Dev 3.594
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

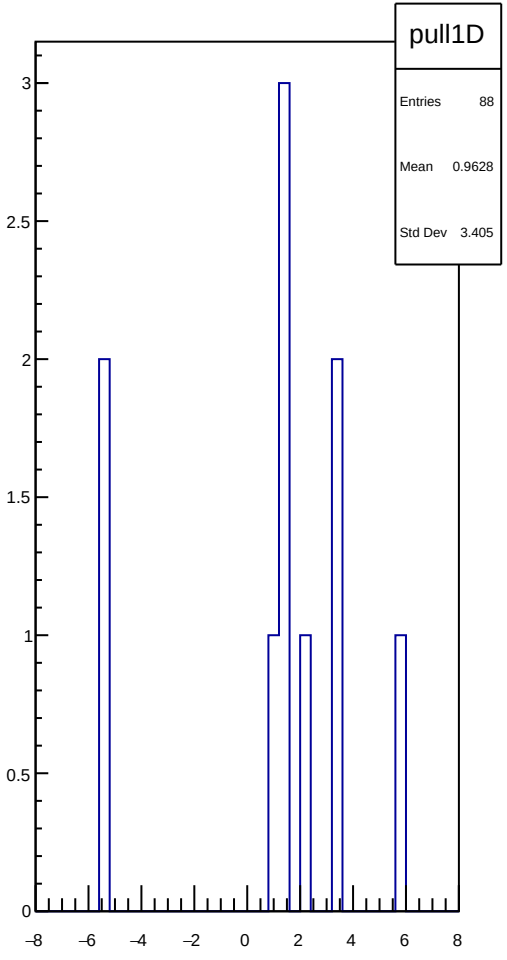

yield_bpm0i05WS_rms vs run
χ² / ndf 1.171e+05 / 87
p0 288.9 ± 0.2321
3500
3000
2500
2000
1500
1000
500

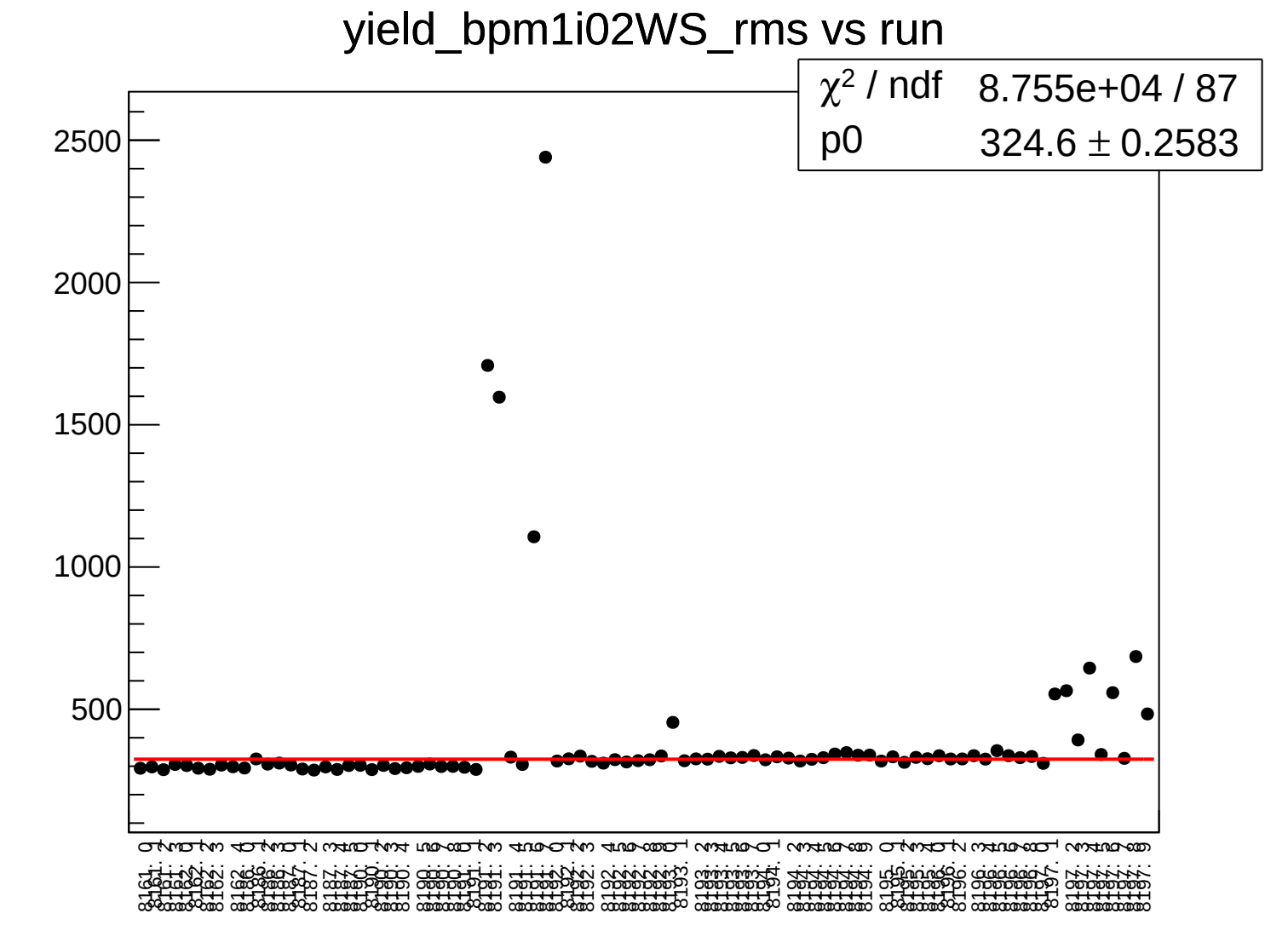

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.901e+11 / 87
p0 −6564 ± 0.07476
140
120
100
80
60
40
20
0
−20
pull
Entries 88
Mean 50.21
Std Dev 19.91
60000
40000
20000
0
−20000
−40000

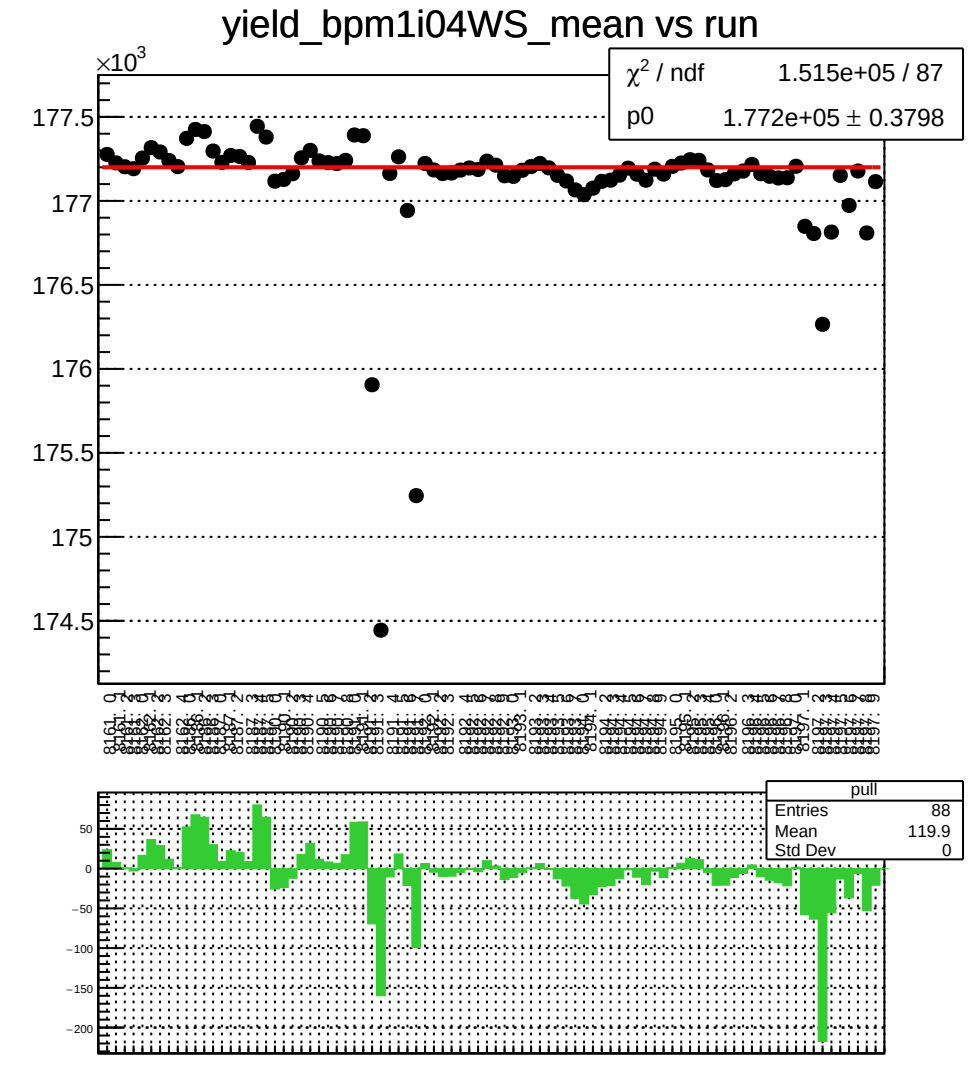

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

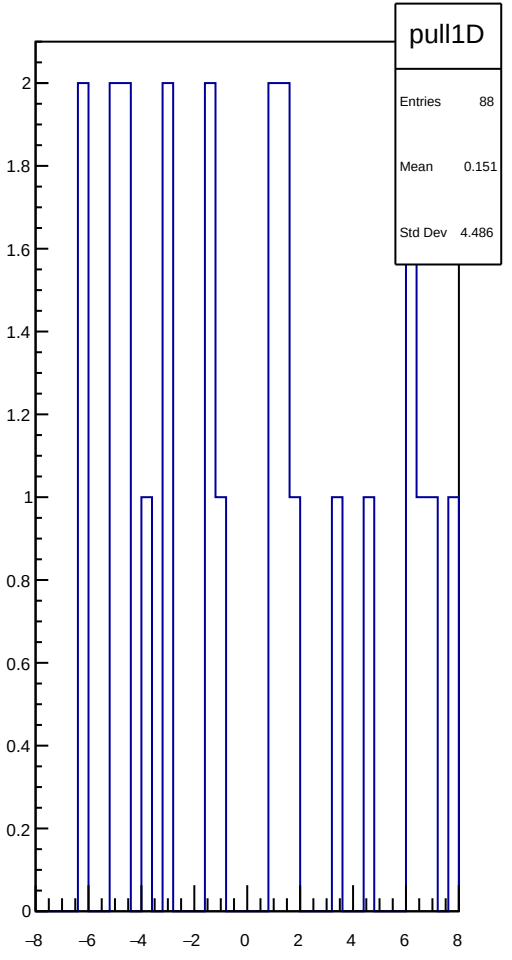

yield_bpm0i07WS_rms vs run
χ² / ndf 1.236e+06 / 87
p0 34.7 ± 0.05286
3500
3000
2500
2000
1500
1000
500

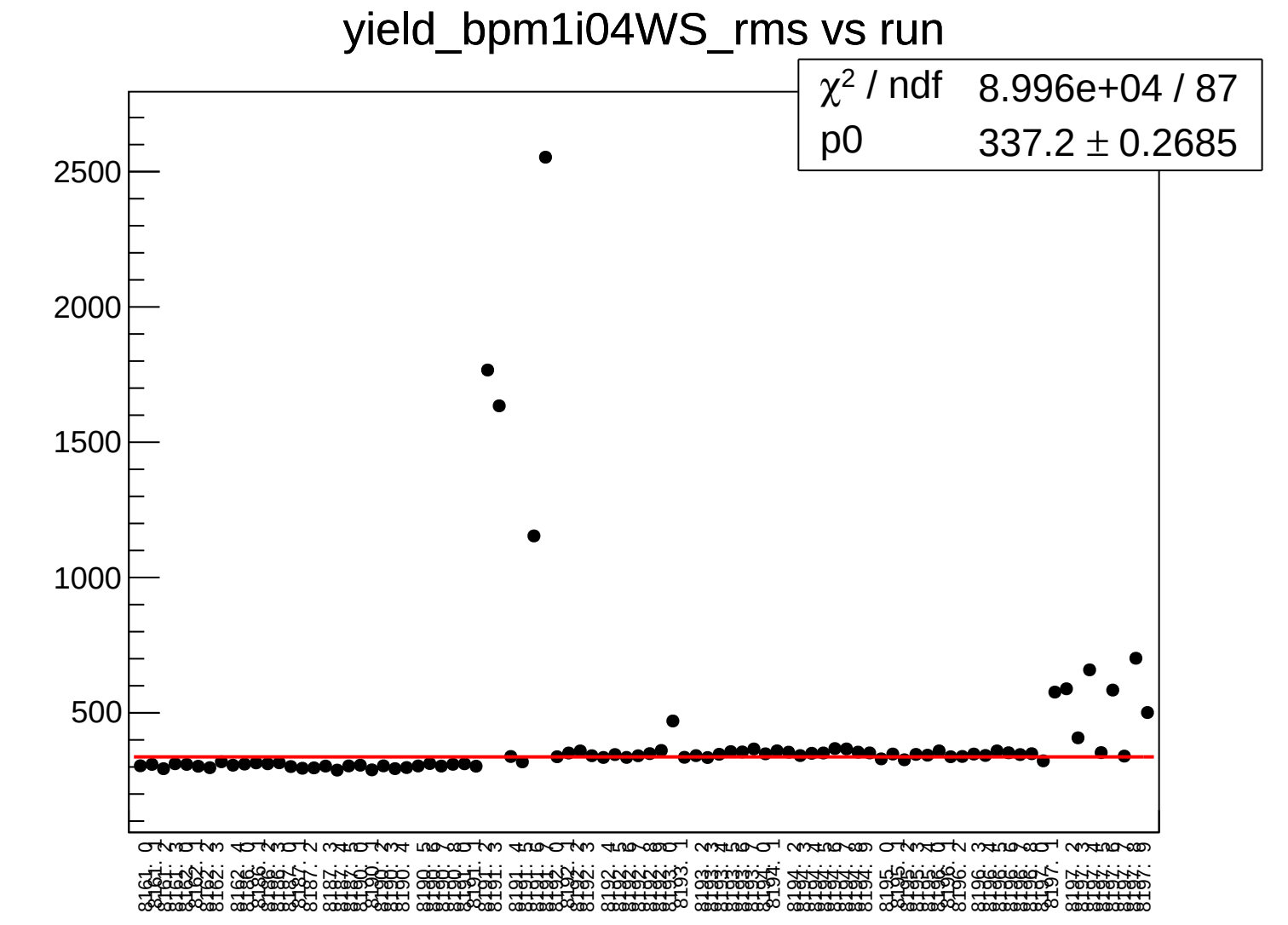

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.147e+05 / 87
p0 1.747e+05 ± 0.3653
175
174.5
174
173.5
173
172.5
172
pull
Entries 88
Mean 99.23
Std Dev 0
100
50
0
−50
−100
−150
−200

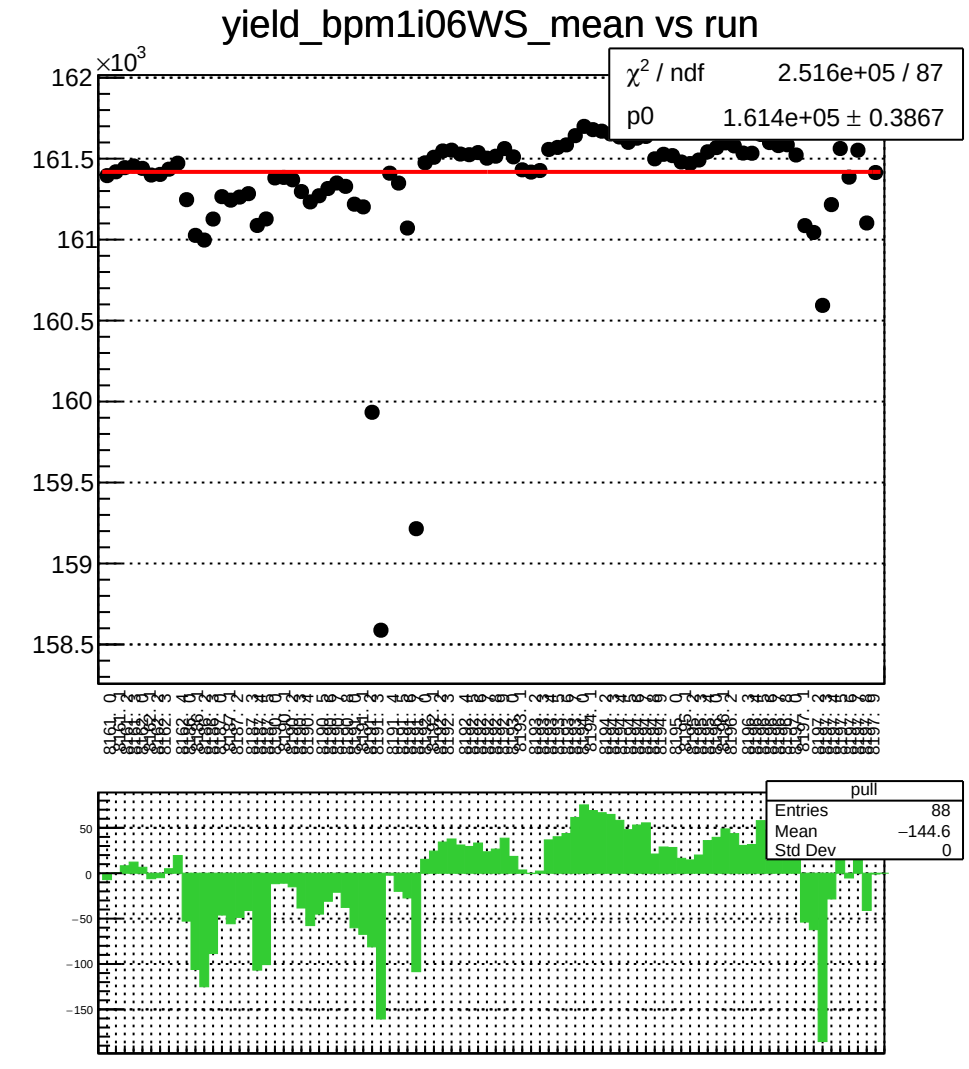

pull1D
Entries 88
Mean 0.9628
Std Dev 3.405
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

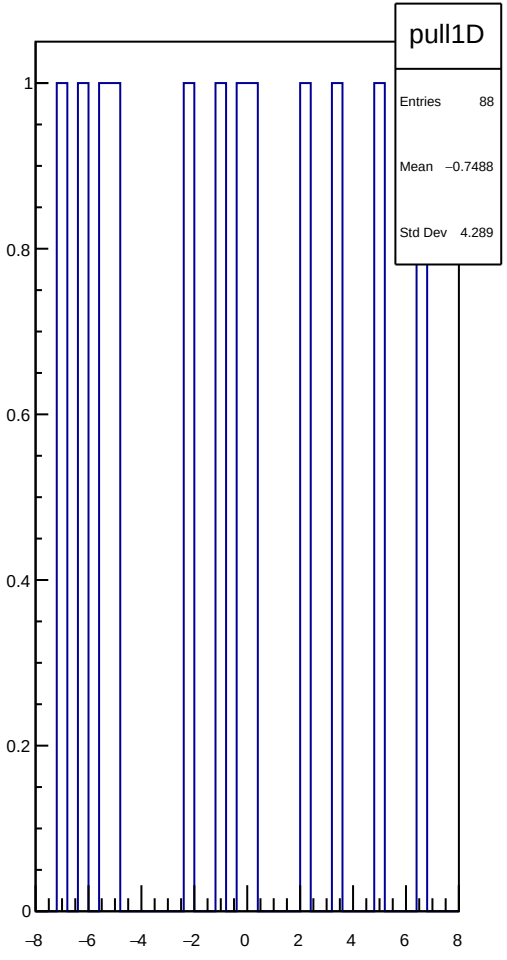

yield_bpm1i02WS_rms vs run
χ² / ndf 8.755e+04 / 87
p0 324.6 ± 0.2583
2500
2000
1500
1000
500

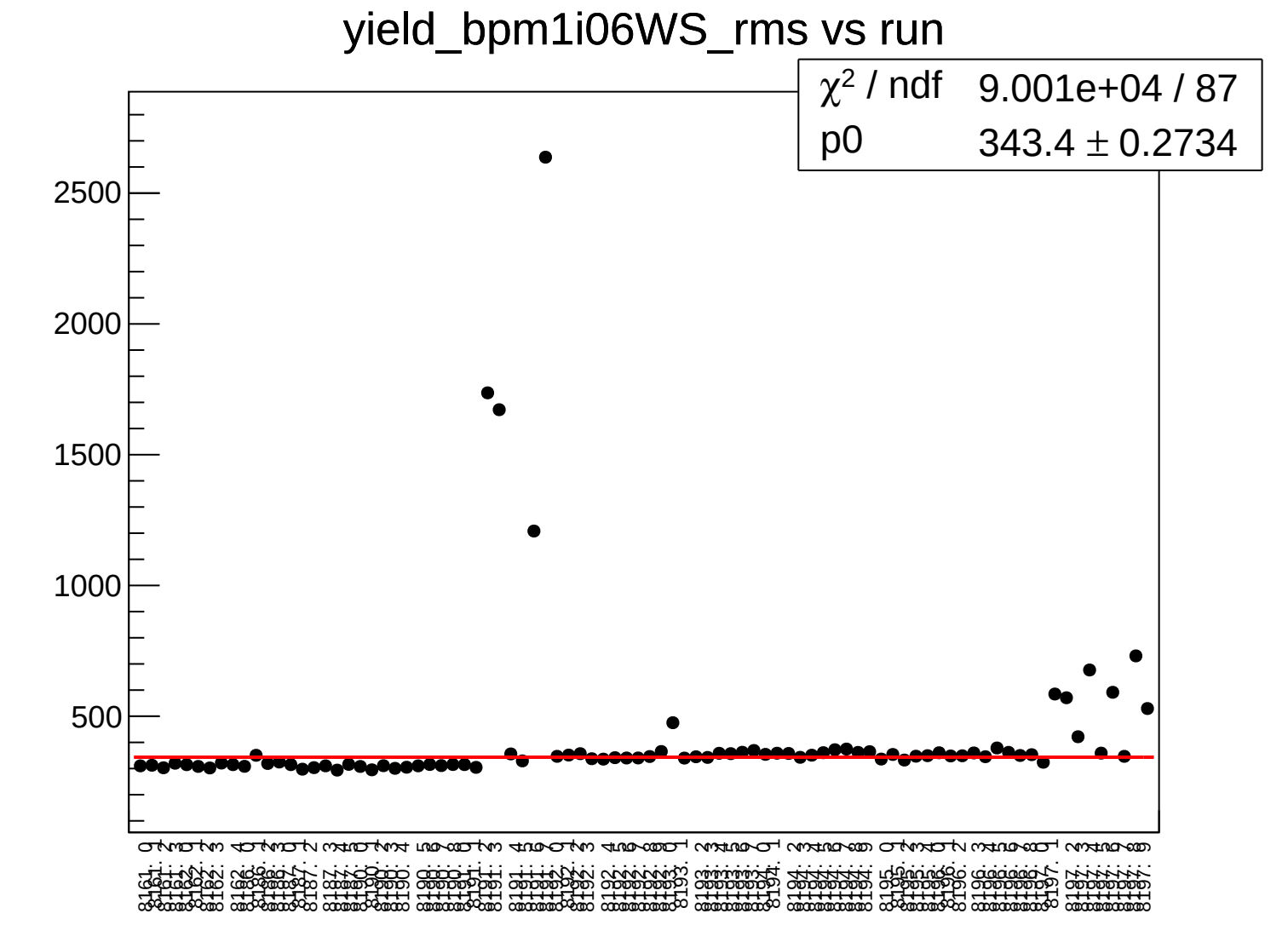

yield_bpm1i04WS_mean vs run
χ^2 / ndf 1.515e+05 / 87
p0 1.772e+05 ± 0.3798
×10^3
177.5
177
176.5
176
175.5
175
174.5
pull
Entries 88
Mean 119.9
Std Dev 0
50
0
−50
−100
−150
−200

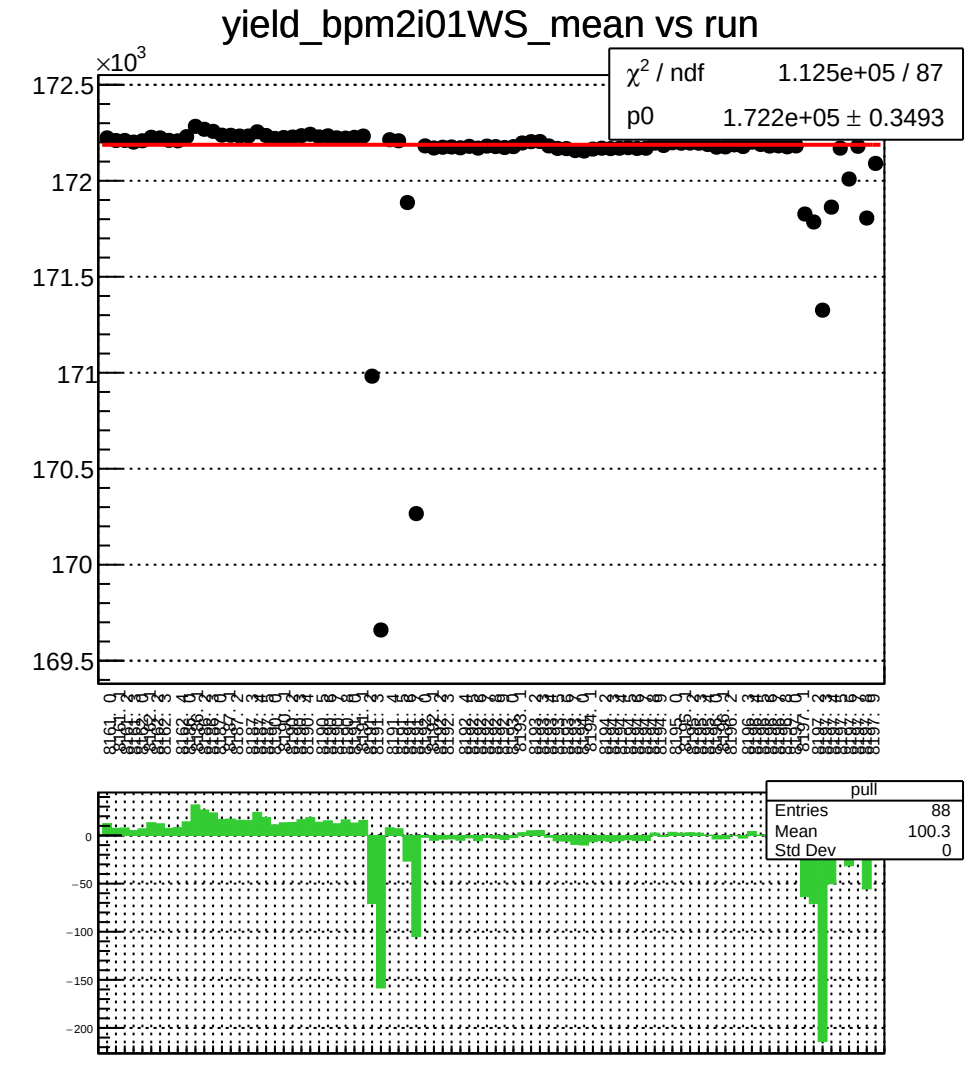

pull1D
Entries 88
Mean 0.151
Std Dev 4.486
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

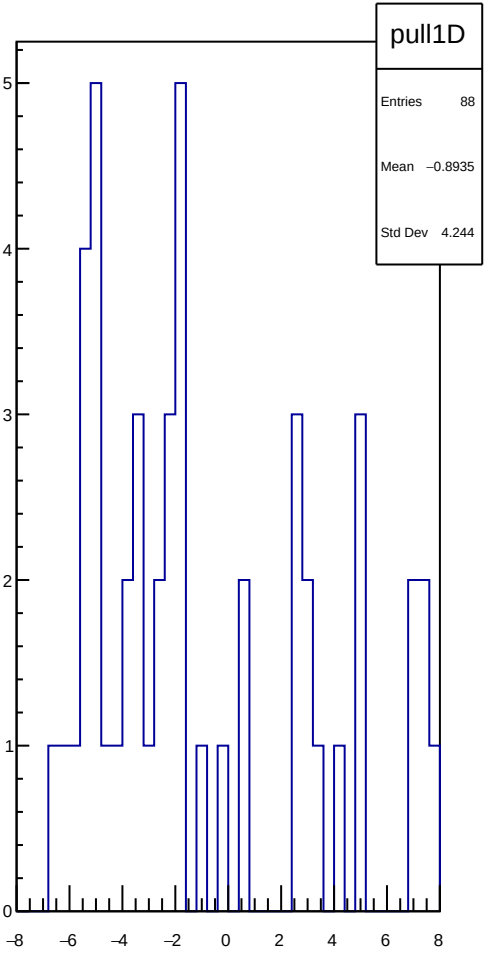

yield_bpm1i04WS_rms vs run
χ² / ndf 8.996e+04 / 87
p0 337.2 ± 0.2685
2500
2000
1500
1000
500

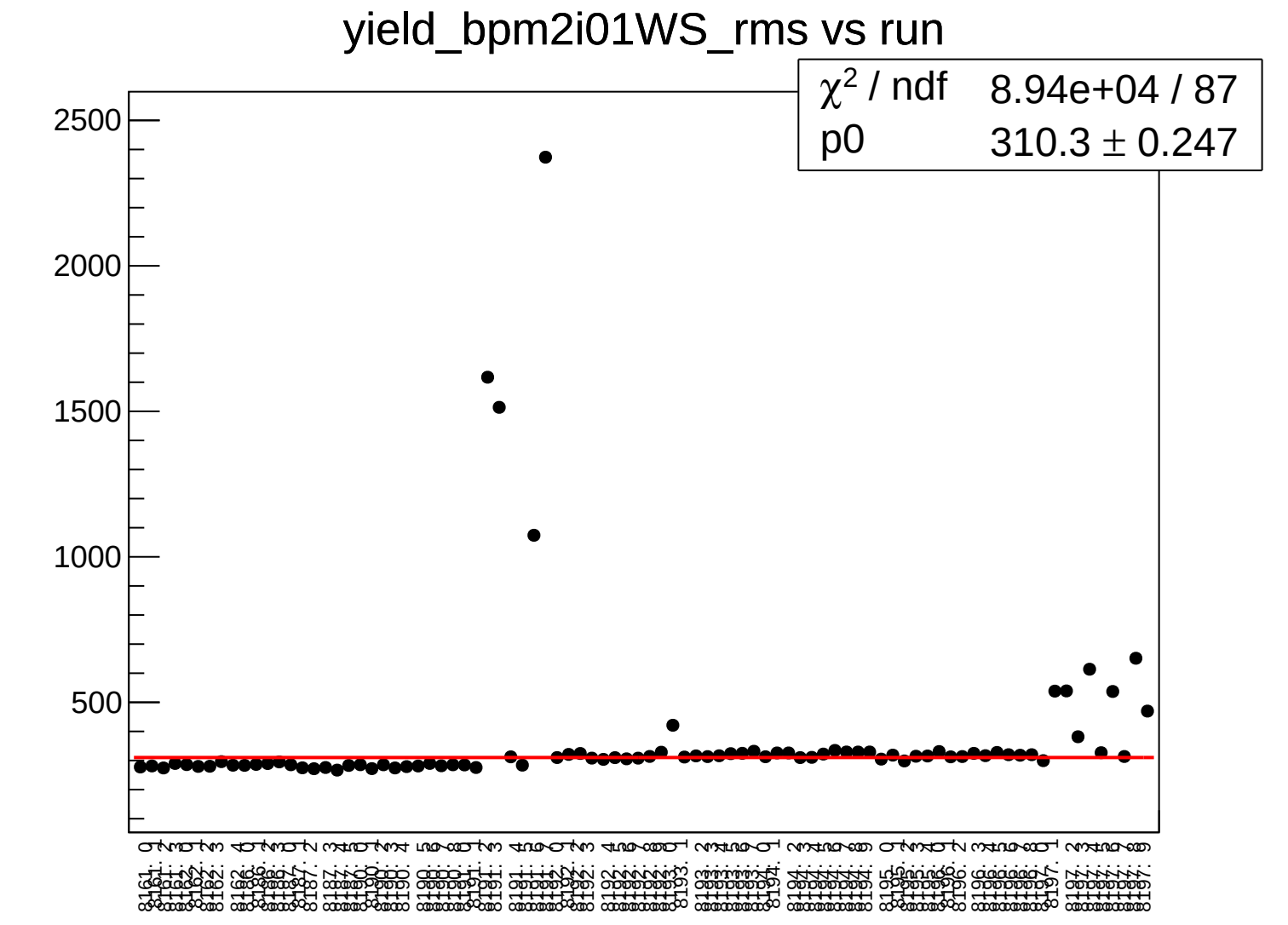

yield_bpm1i06WS_mean vs run
χ² / ndf 2.516e+05 / 87
p0 1.614e+05 ± 0.3867
×10³
pull
Entries 88
Mean −144.6
Std Dev 0

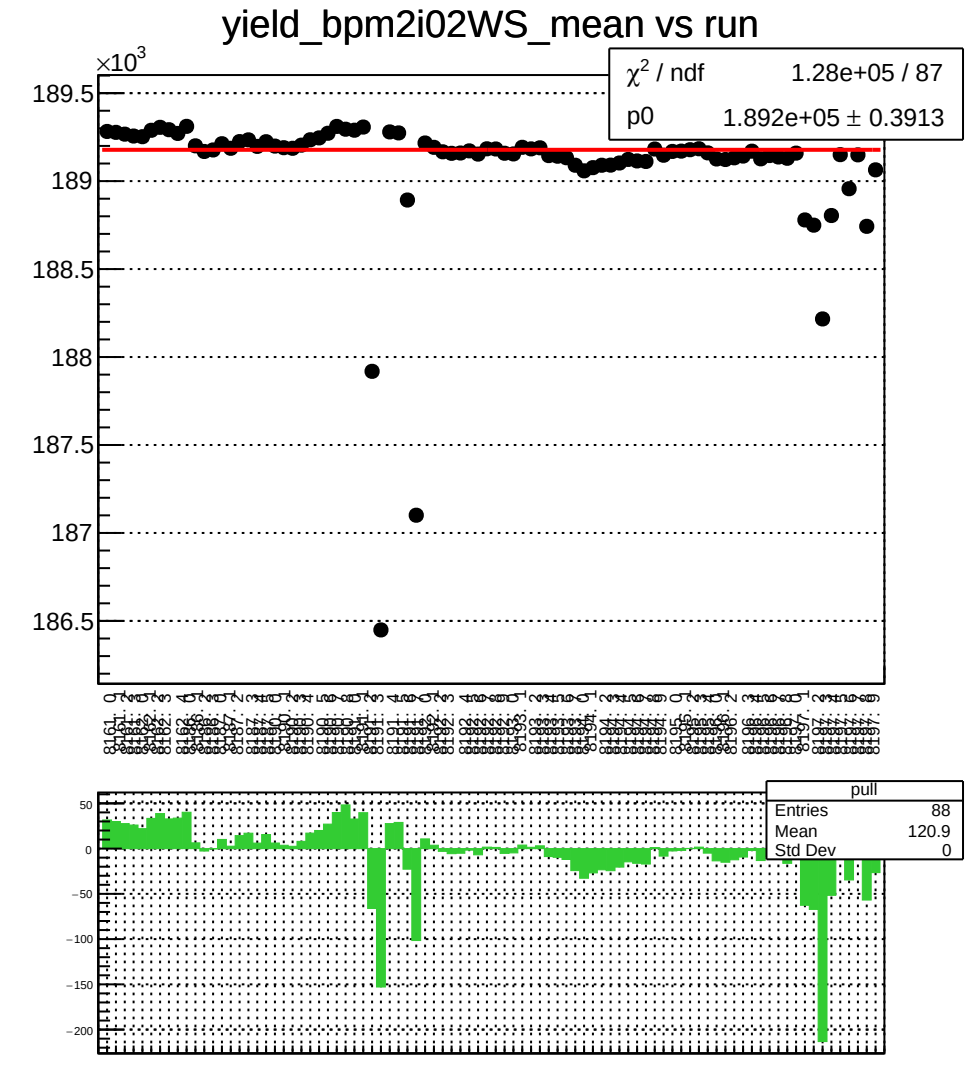

pull1D
Entries 88
Mean −0.7488
Std Dev 4.289

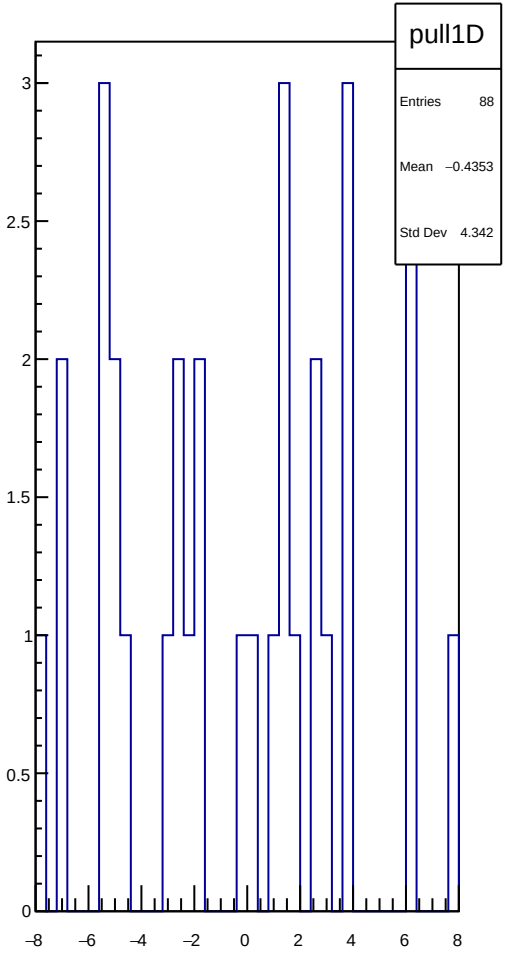

yield_bpm1i06WS_rms vs run
χ² / ndf 9.001e+04 / 87
p0 343.4 ± 0.2734
2500
2000
1500
1000
500

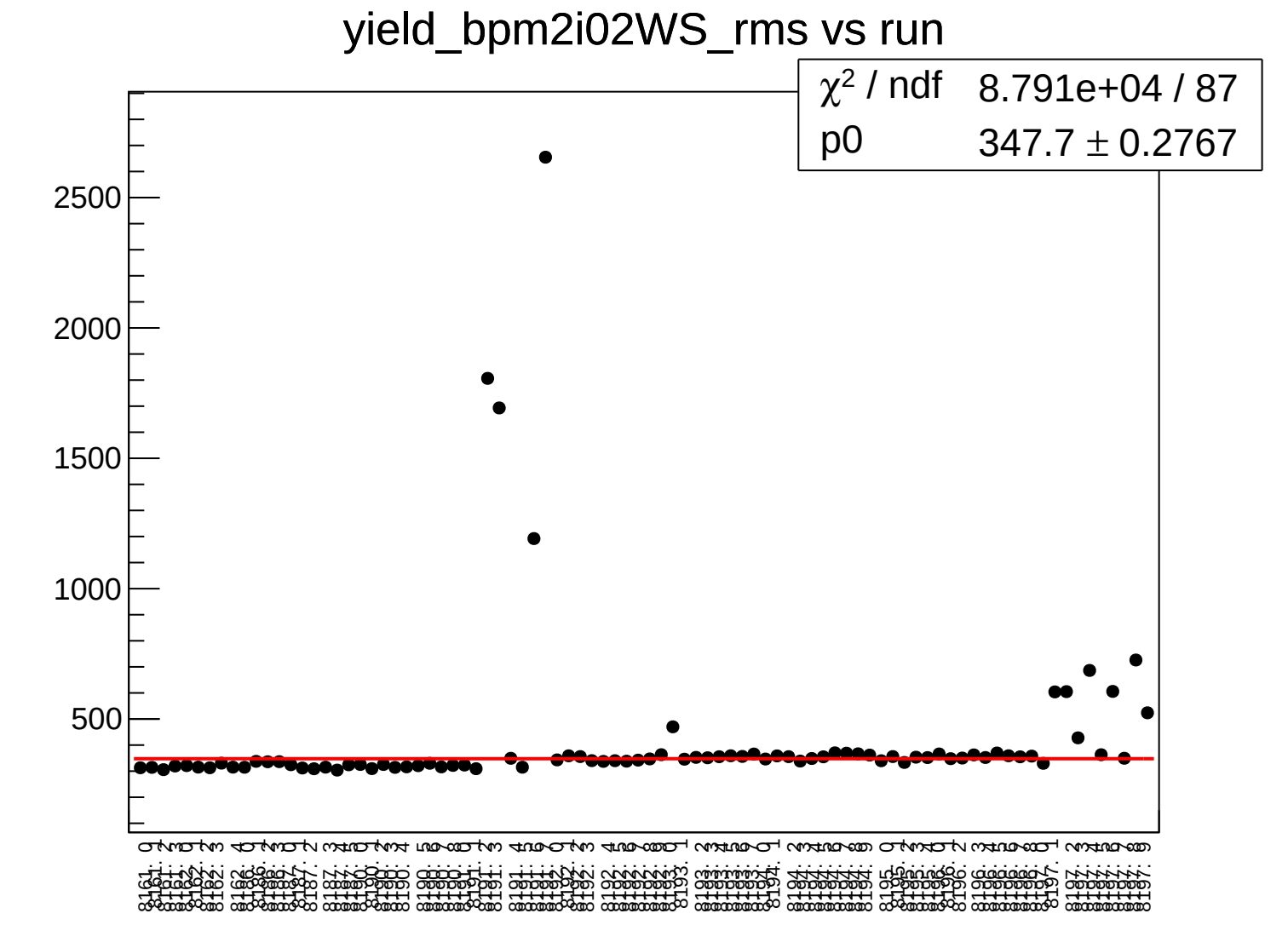

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.125e+05 / 87
p0 1.722e+05 ± 0.3493
172.5
172
171.5
171
170.5
170
169.5
pull
Entries 88
Mean 100.3
Std Dev 0
0
−50
−100
−150
−200

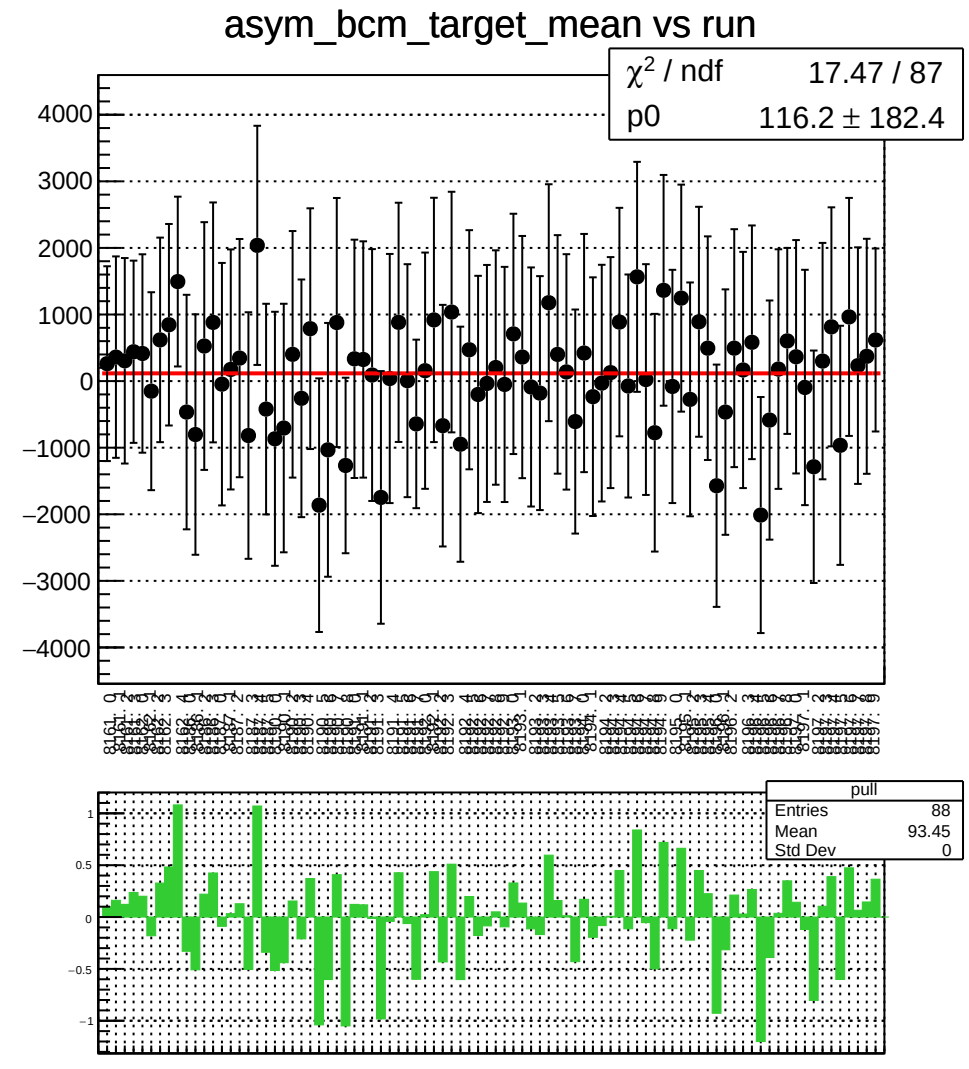

pull1D
Entries 88
Mean −0.8935
Std Dev 4.244
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

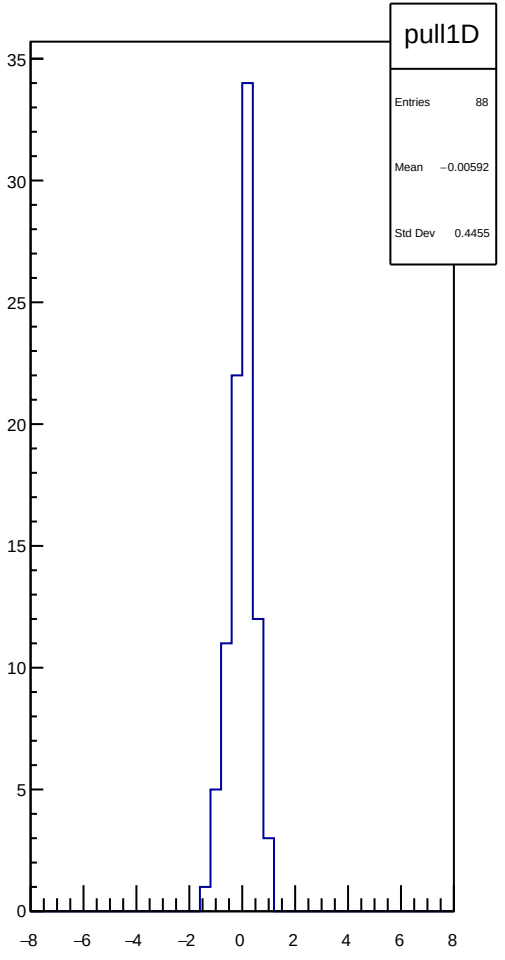

yield_bpm2i01WS_rms vs run
χ² / ndf 8.94e+04 / 87
p0 310.3 ± 0.247
2500
2000
1500
1000
500

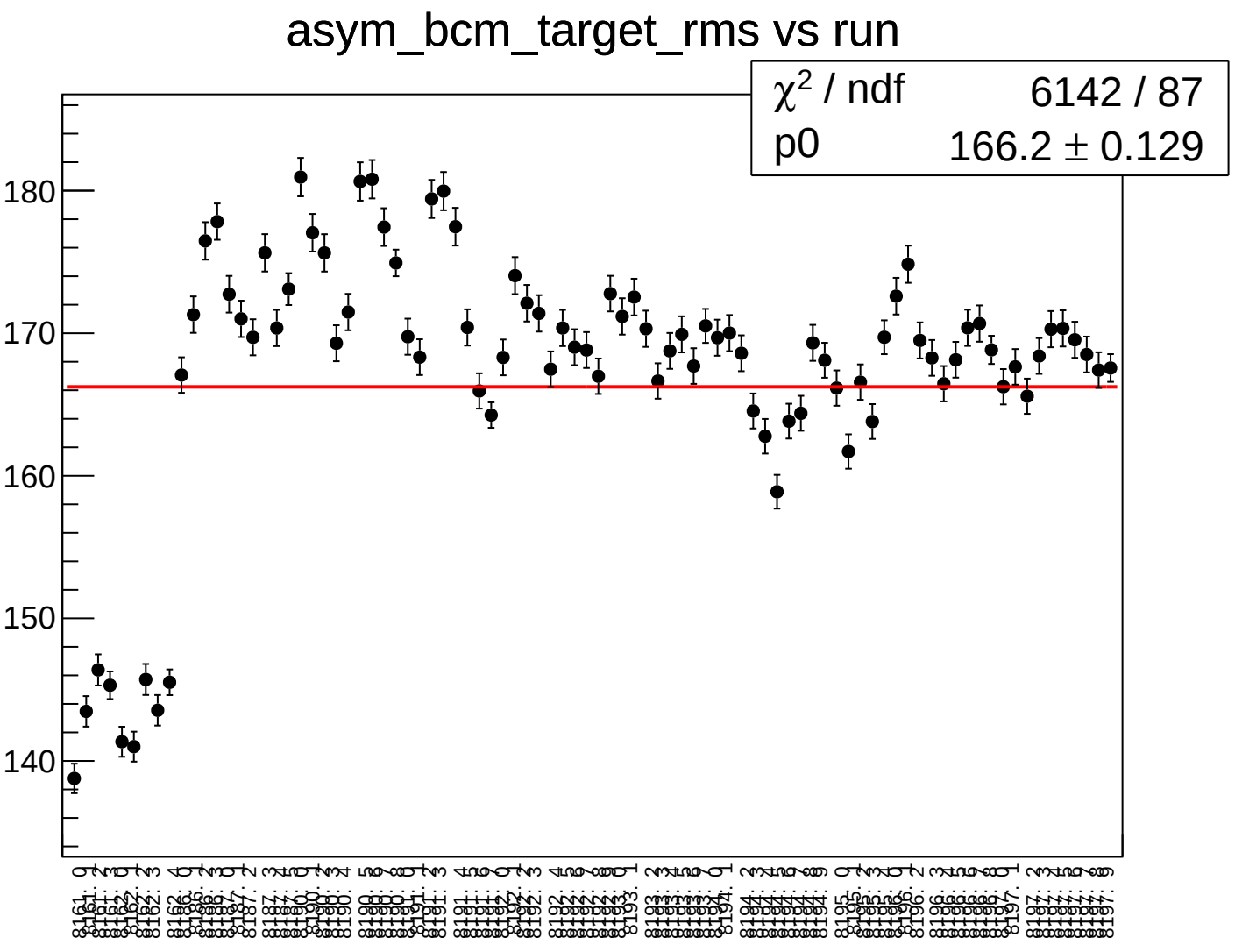

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.28e+05 / 87
p0 1.892e+05 ± 0.3913
189.5
189
188.5
188
187.5
187
186.5
pull
Entries 88
Mean 120.9
Std Dev 0
50
0
−50
−100
−150
−200

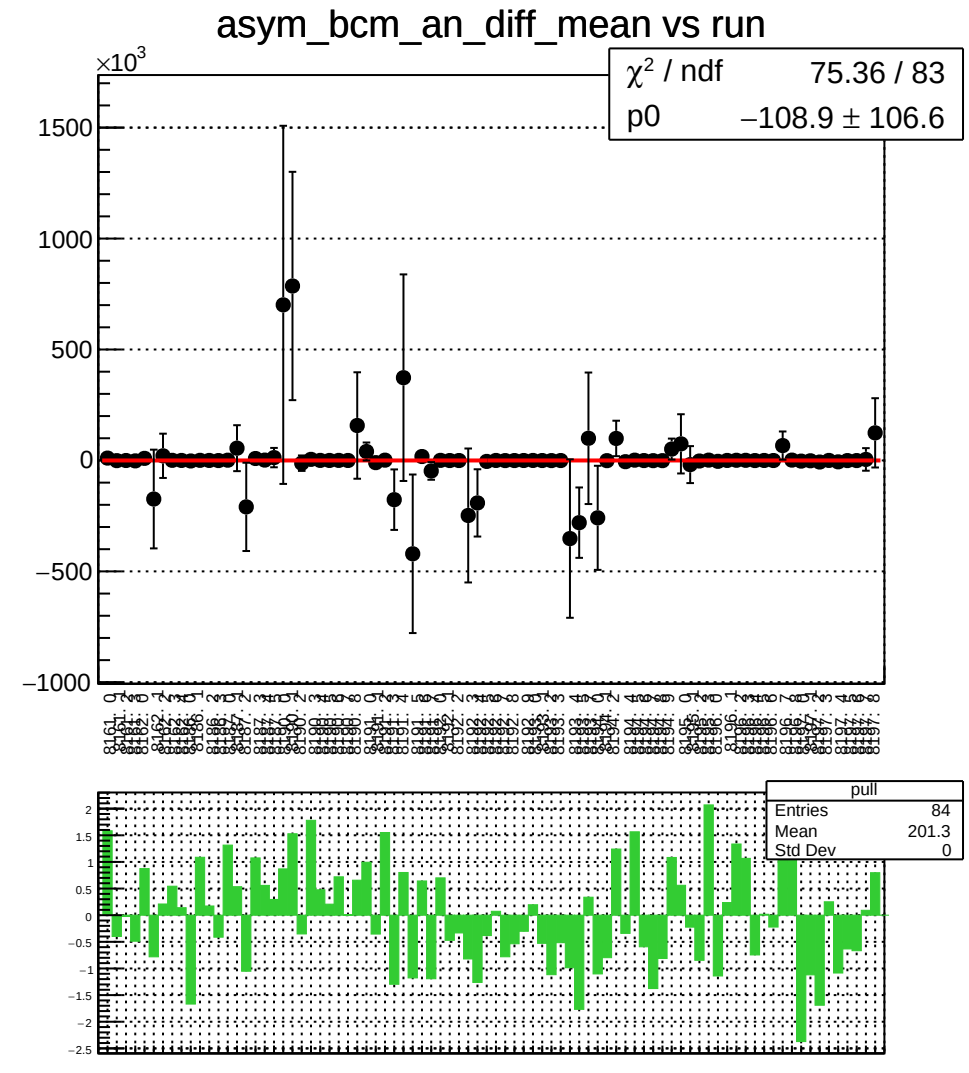

pull1D
Entries 88
Mean −0.4353
Std Dev 4.342
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

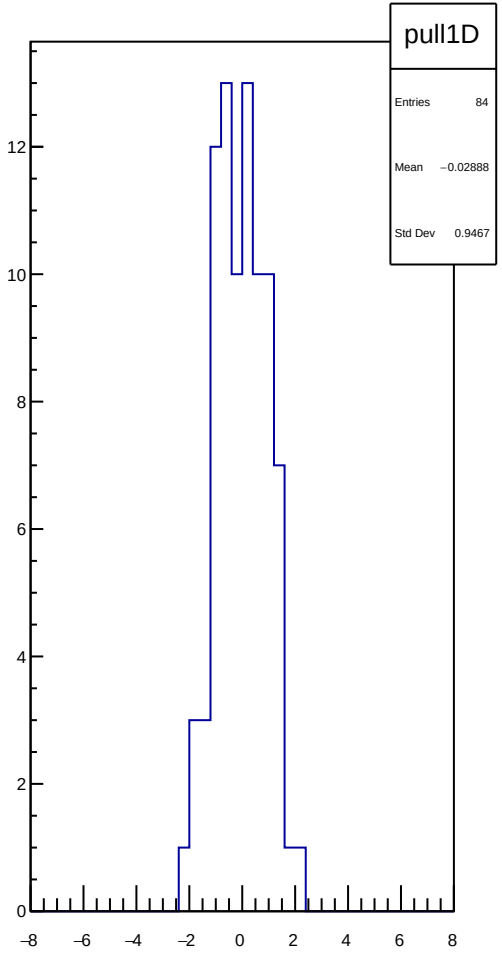

yield_bpm2i02WS_rms vs run
χ² / ndf 8.791e+04 / 87
p0 347.7 ± 0.2767
2500
2000
1500
1000
500

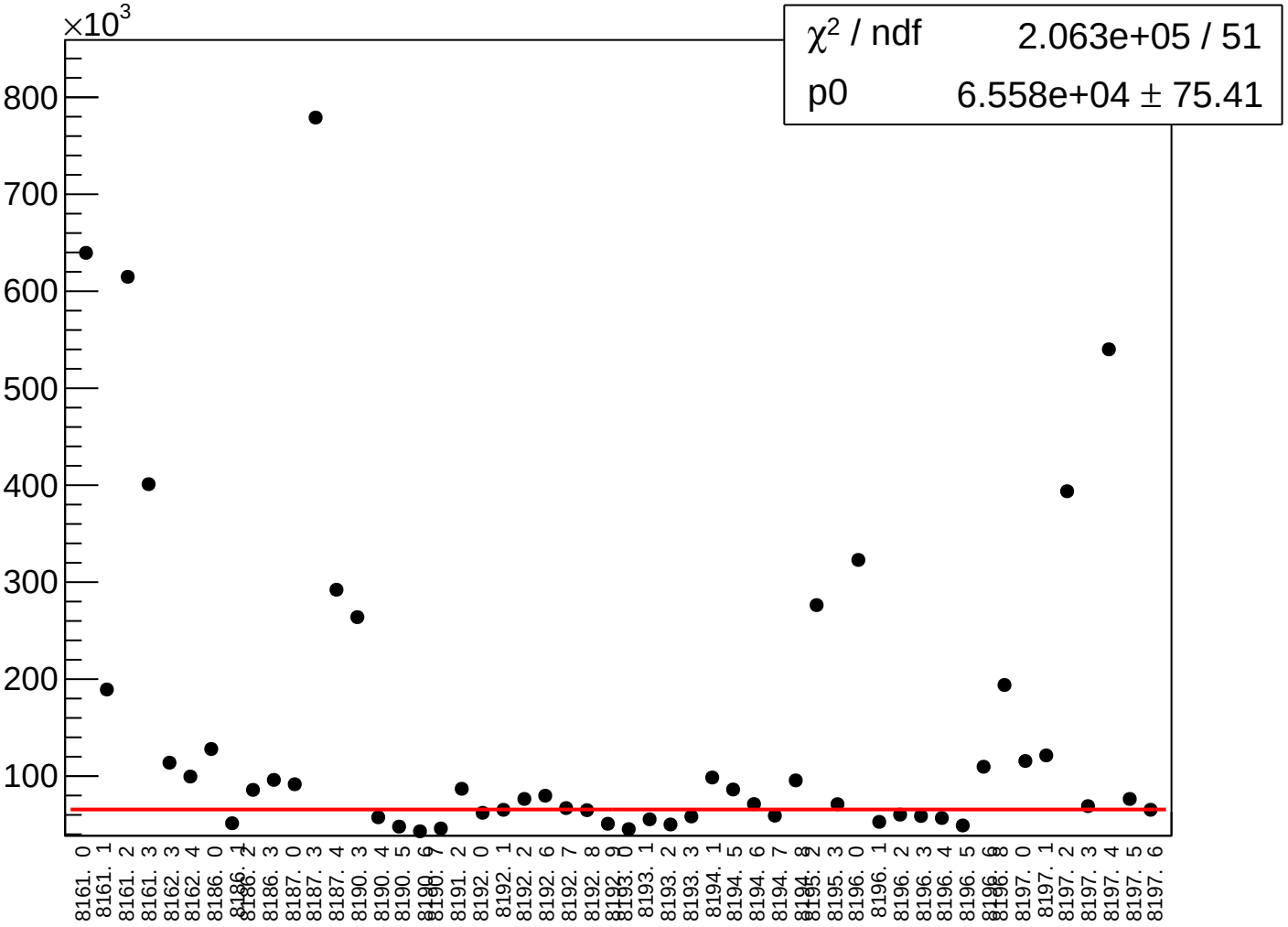

asym_bcm_target_mean vs run
χ² / ndf 17.47 / 87
p0 116.2 ± 182.4
pull
Entries 88
Mean 93.45
Std Dev 0

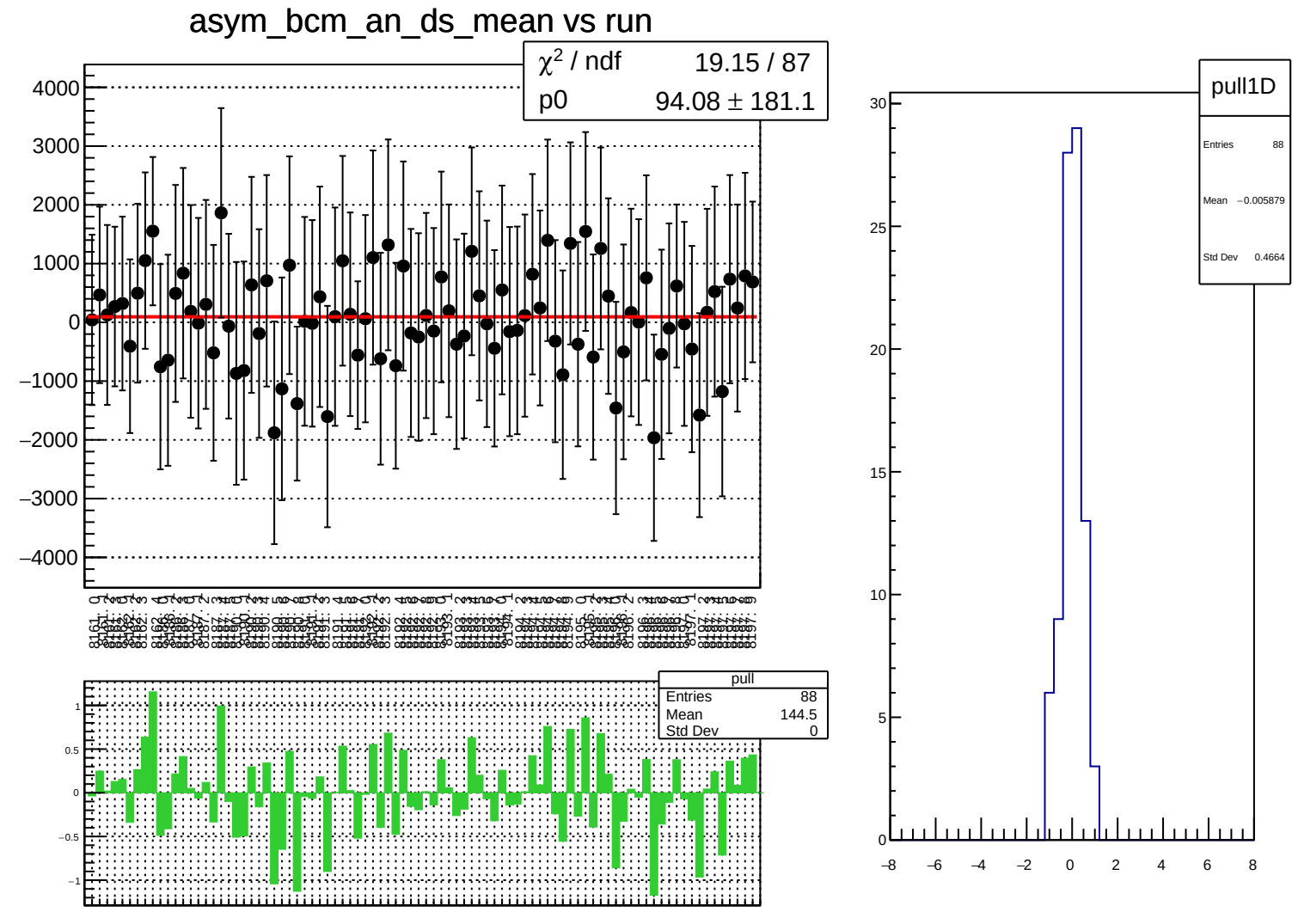

pull1D
Entries 88
Mean −0.00592
Std Dev 0.4455

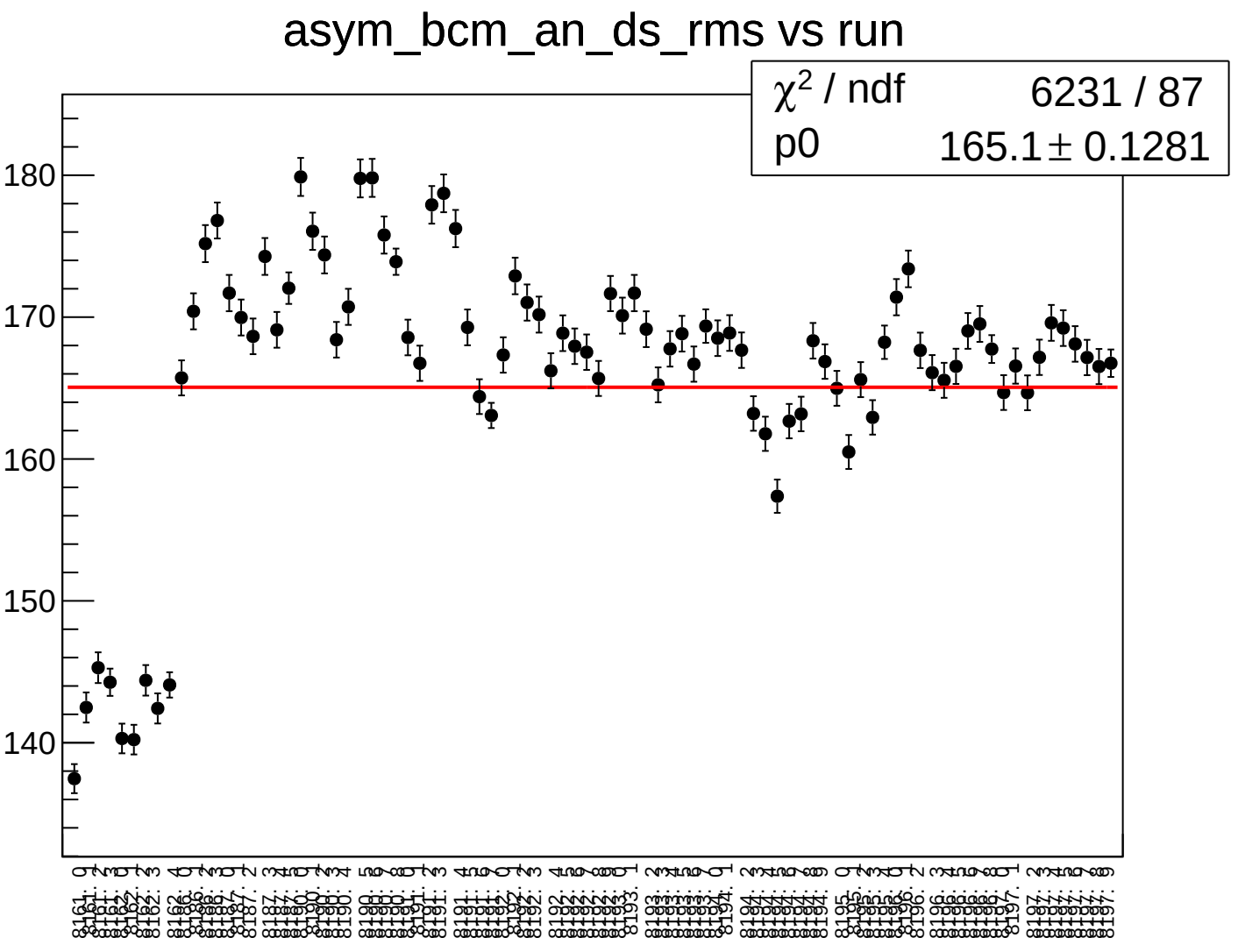

asym_bcm_target_rms vs run
χ² / ndf 6142 / 87
p0 166.2 ± 0.129
180
170
160
150
140

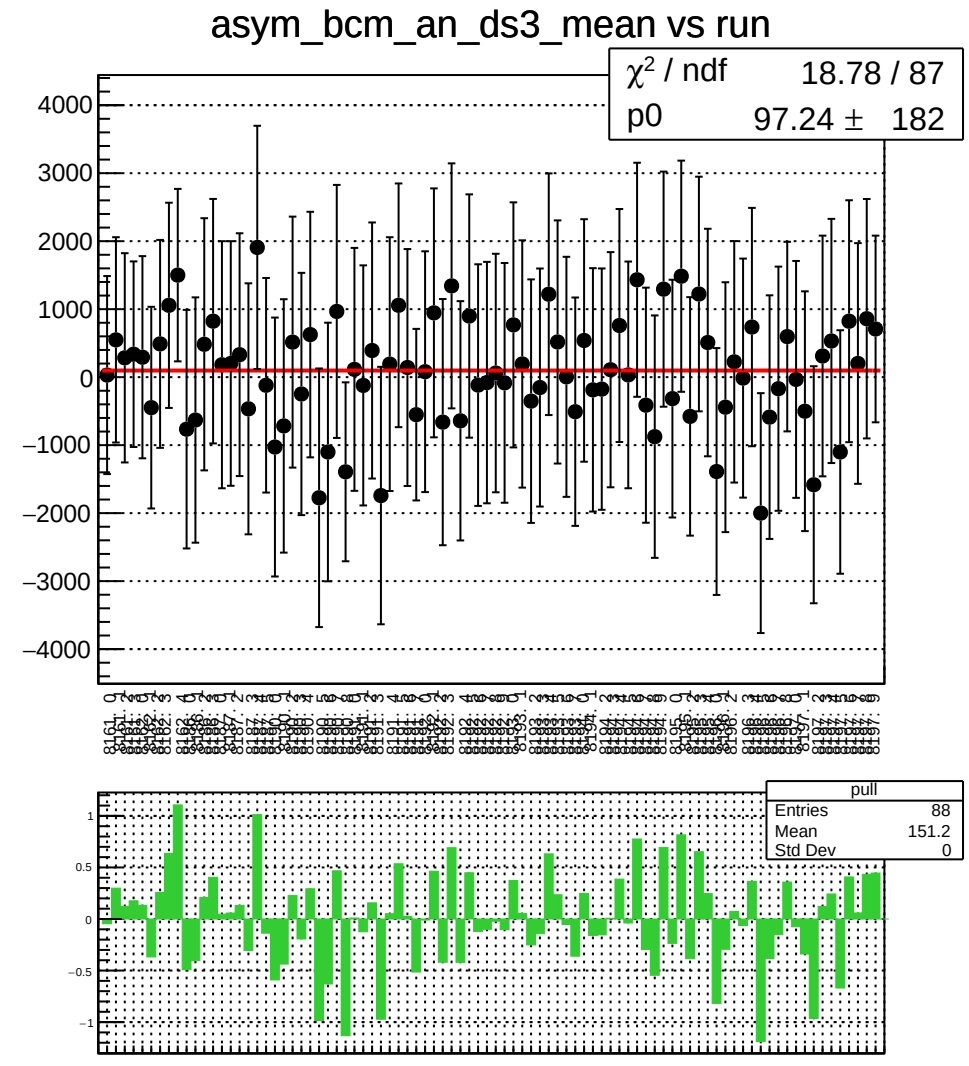

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 75.36 / 83
p0 −108.9 ± 106.6
1500
1000
500
0
−500
−1000
pull
Entries 84
Mean 201.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

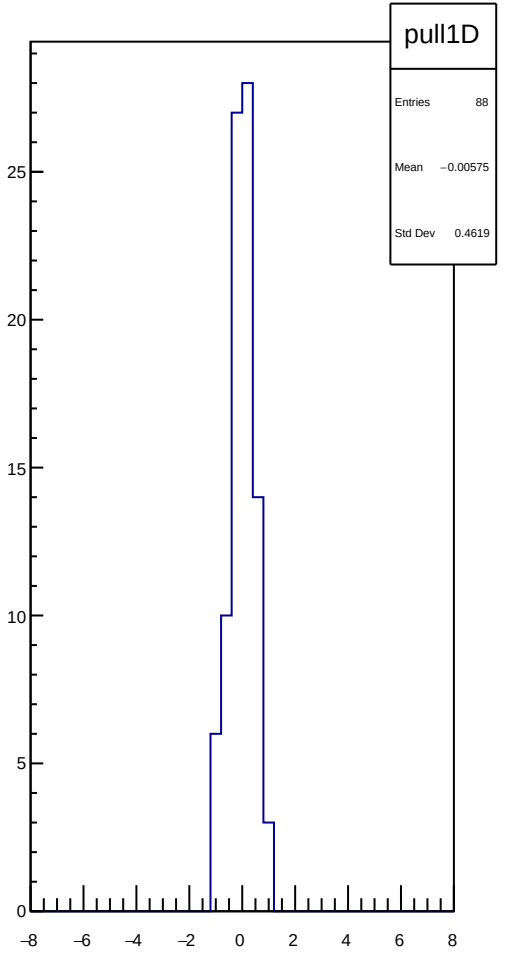

pull1D
Entries 84
Mean −0.02888
Std Dev 0.9467
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

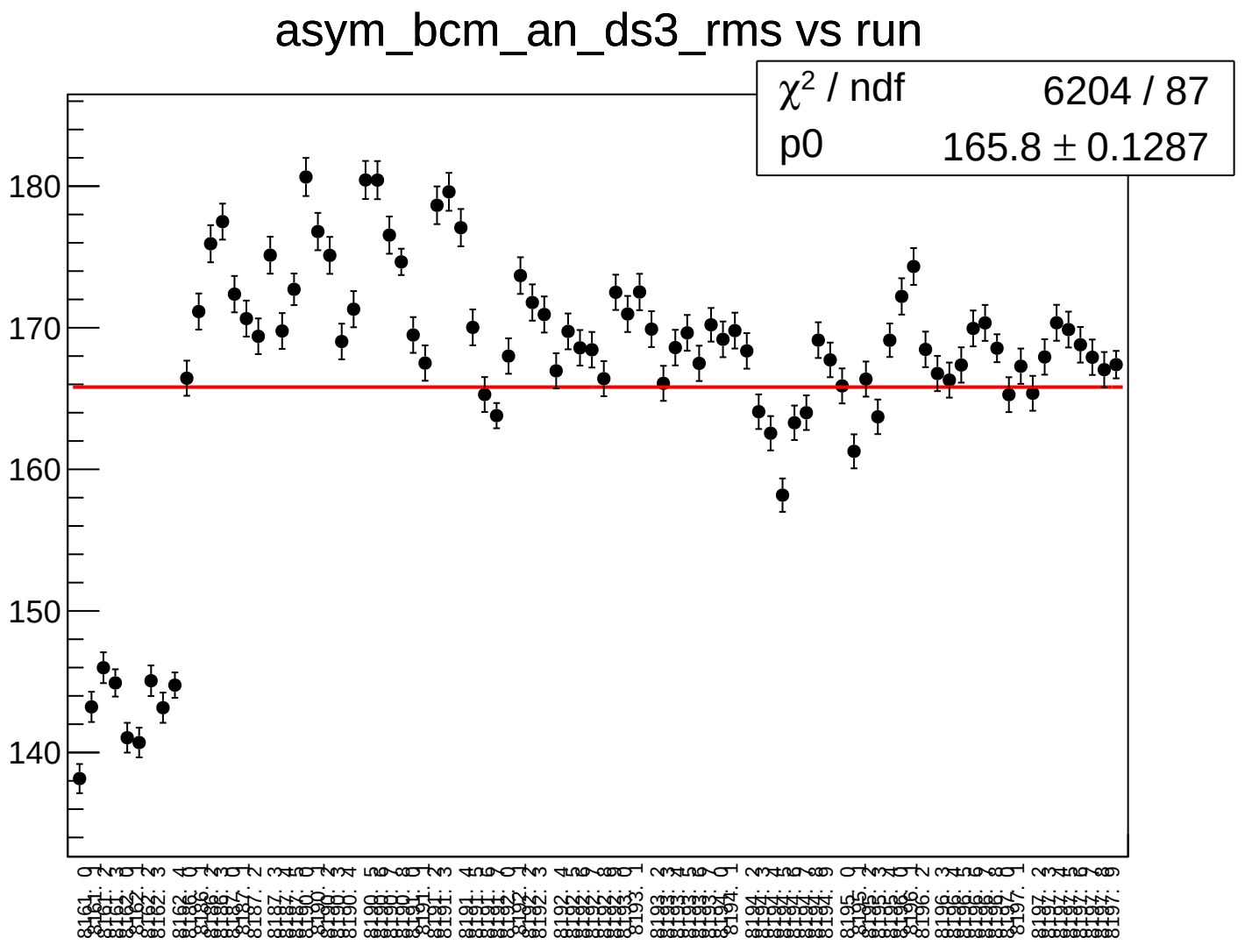

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 2.063e+05 / 51
p0 6.558e+04 ± 75.41
800
700
600
500
400
300
200
100
8161. 0
8161. 1
8161. 2
8161. 3
8162. 3
8162. 4
8186. 0
8186. 2
8186. 3
8187. 0
8187. 3
8187. 4
8190. 3
8190. 4
8190. 5
8191. 2
8192. 0
8192. 1
8192. 2
8192. 6
8192. 7
8192. 8
8193. 1
8193. 2
8193. 3
8194. 1
8194. 5
8194. 6
8194. 7
8195. 3
8196. 0
8196. 1
8196. 2
8196. 3
8196. 4
8196. 5
8197. 0
8197. 1
8197. 2
8197. 3
8197. 4
8197. 5
8197. 6

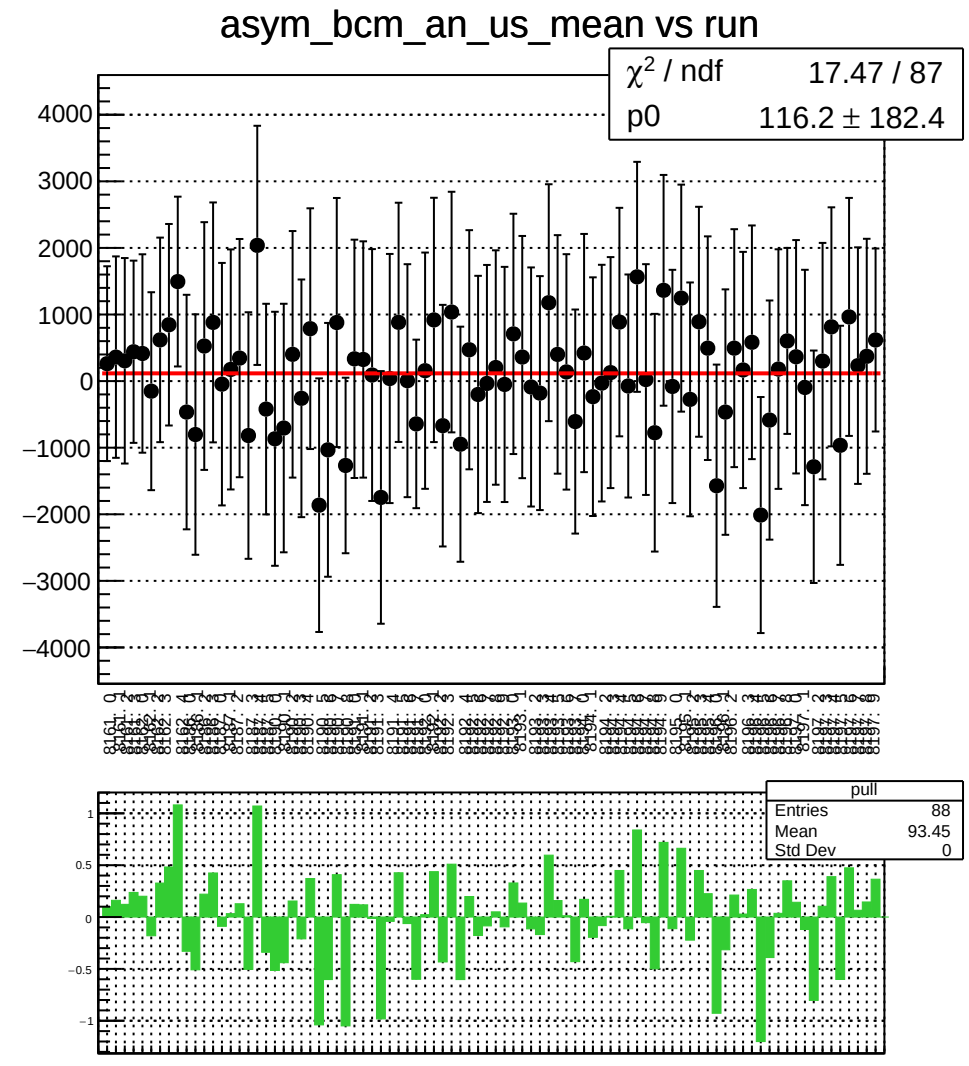

asym_bcm_an_ds_mean vs run
χ² / ndf 19.15 / 87
p0 94.08 ± 181.1
pull
Entries 88
Mean 144.5
Std Dev 0
pull1D
Entries 88
Mean −0.005879
Std Dev 0.4664

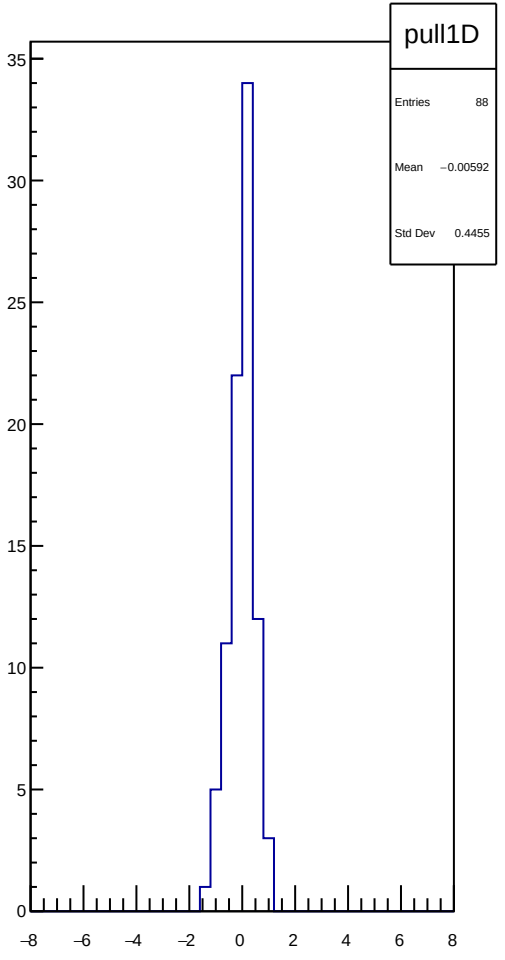

asym_bcm_an_ds_rms vs run
χ^2 / ndf 6231 / 87
p0 165.1 ± 0.1281
180
170
160
150
140

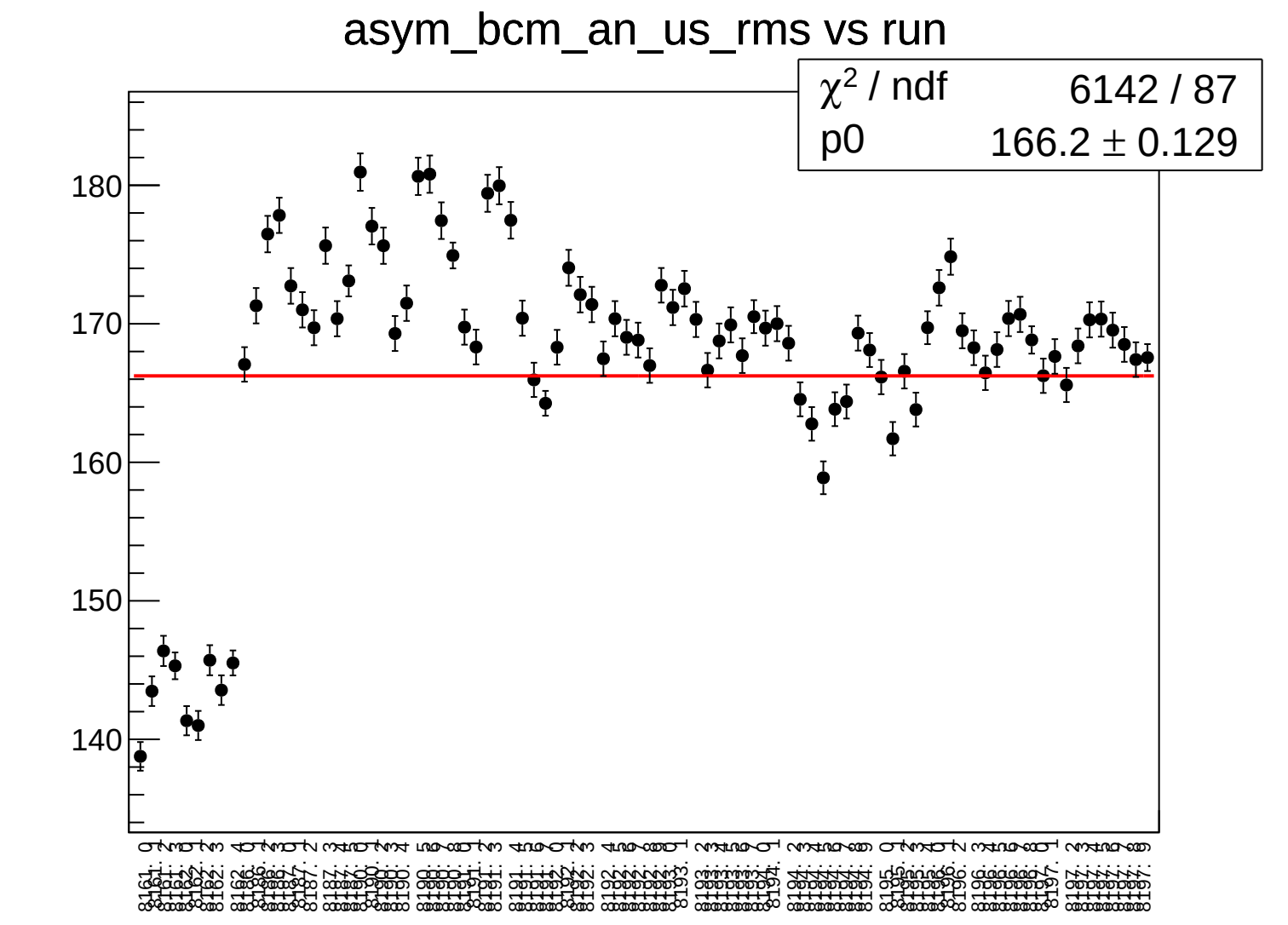

asym_bcm_an_ds3_mean vs run
χ² / ndf 18.78 / 87
p0 97.24 ± 182
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 151.2
Std Dev 0
1
0.5
0
−0.5
−1

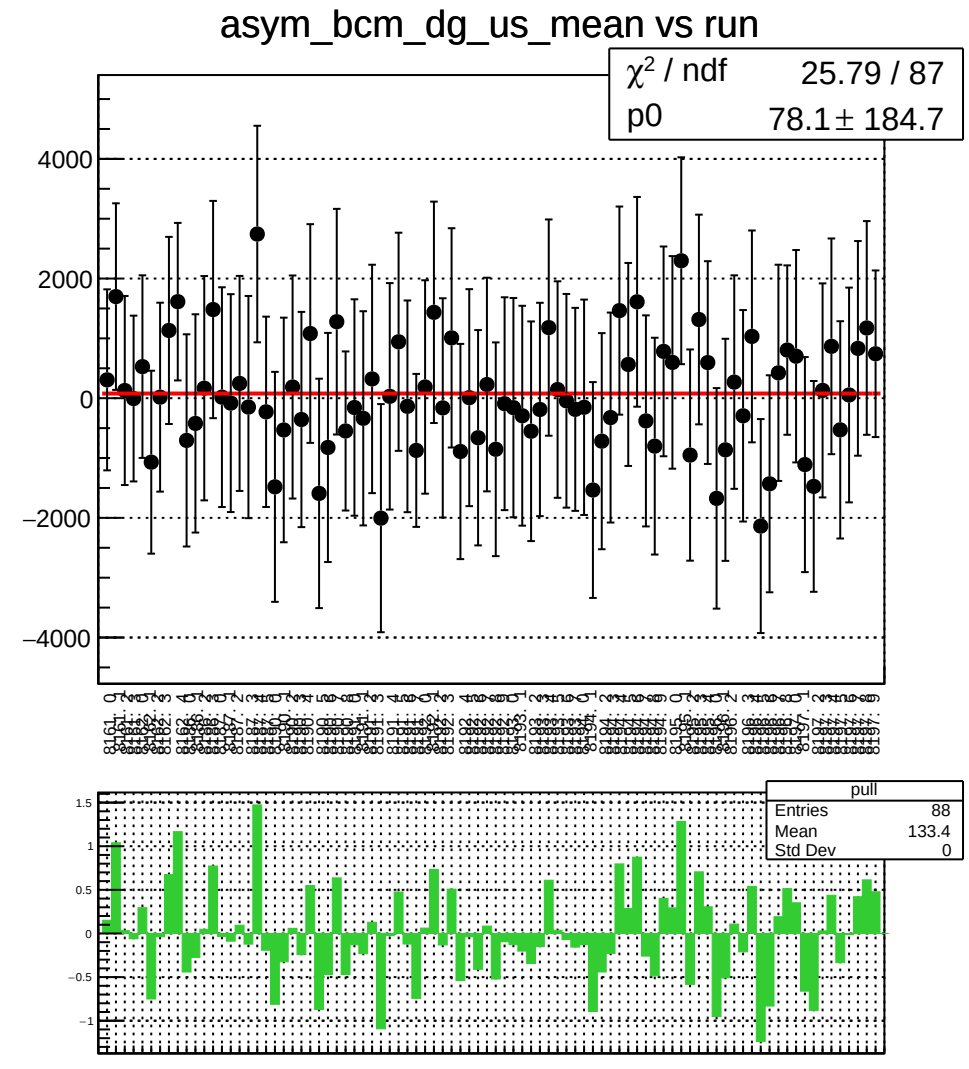

pull1D
Entries 88
Mean −0.00575
Std Dev 0.4619
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

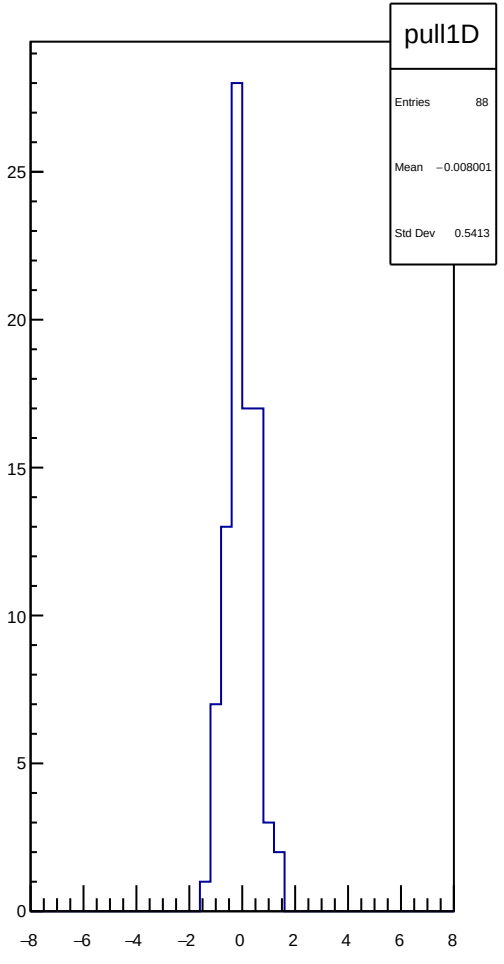

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 6204 / 87
p0 165.8 ± 0.1287
180
170
160
150
140

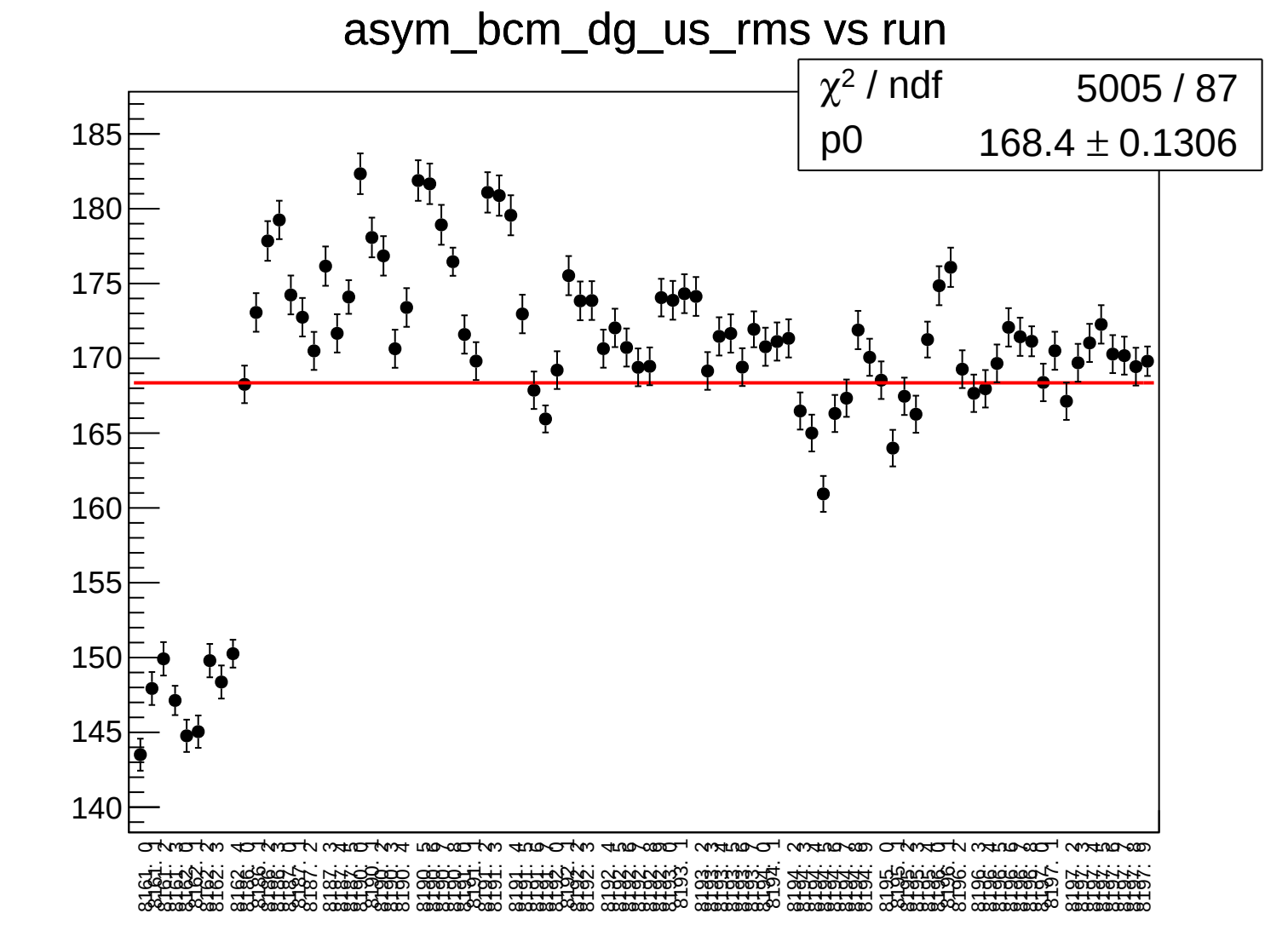

asym_bcm_an_us_mean vs run
χ² / ndf 17.47 / 87
p0 116.2 ± 182.4
pull
Entries 88
Mean 93.45
Std Dev 0

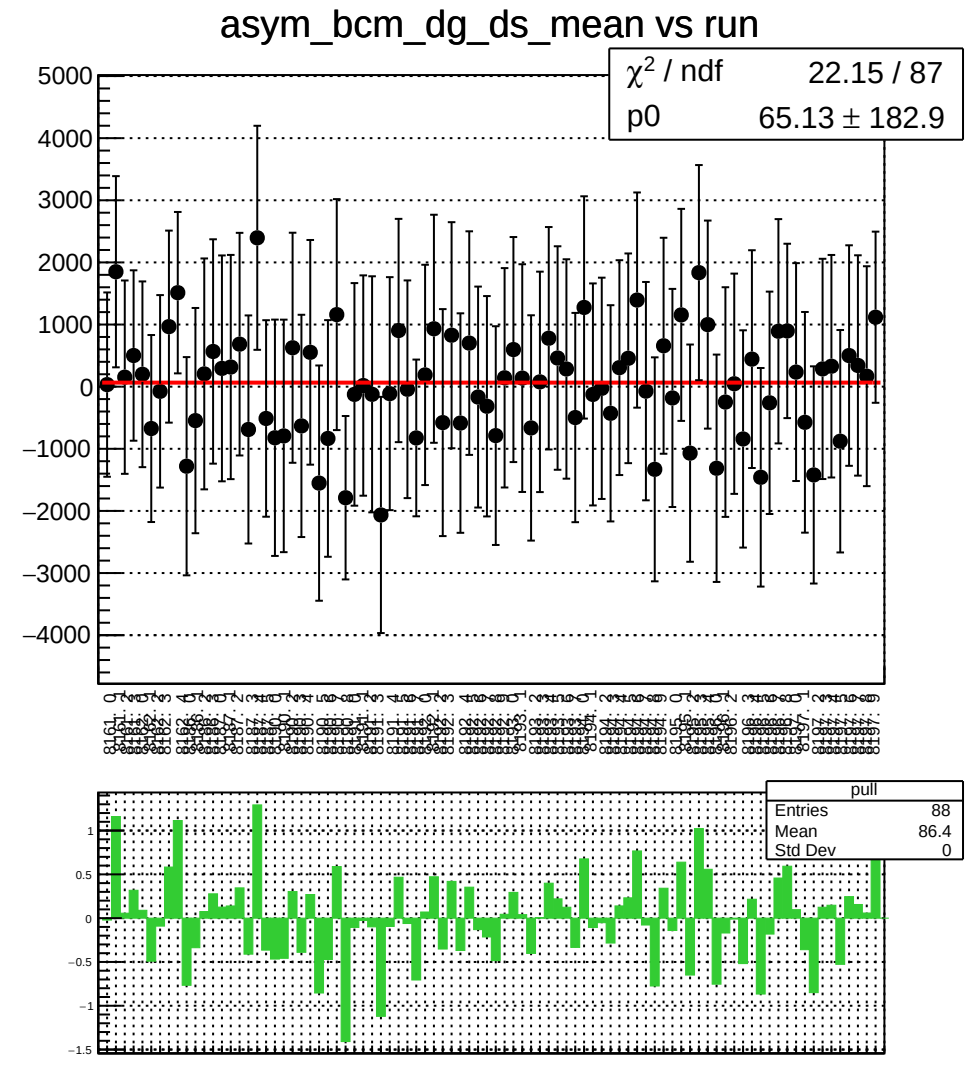

pull1D
Entries 88
Mean −0.00592
Std Dev 0.4455

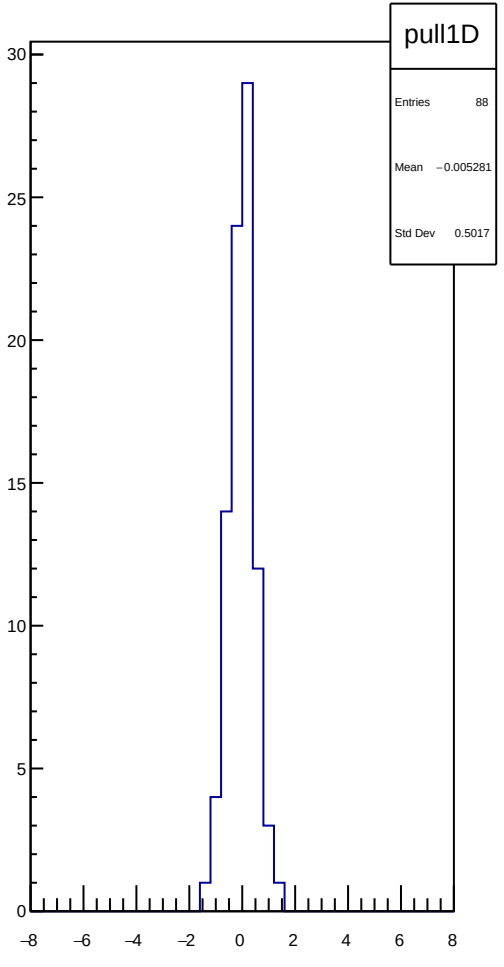

asym_bcm_an_us_rms vs run
χ² / ndf 6142 / 87
p0 166.2 ± 0.129
180
170
160
150
140

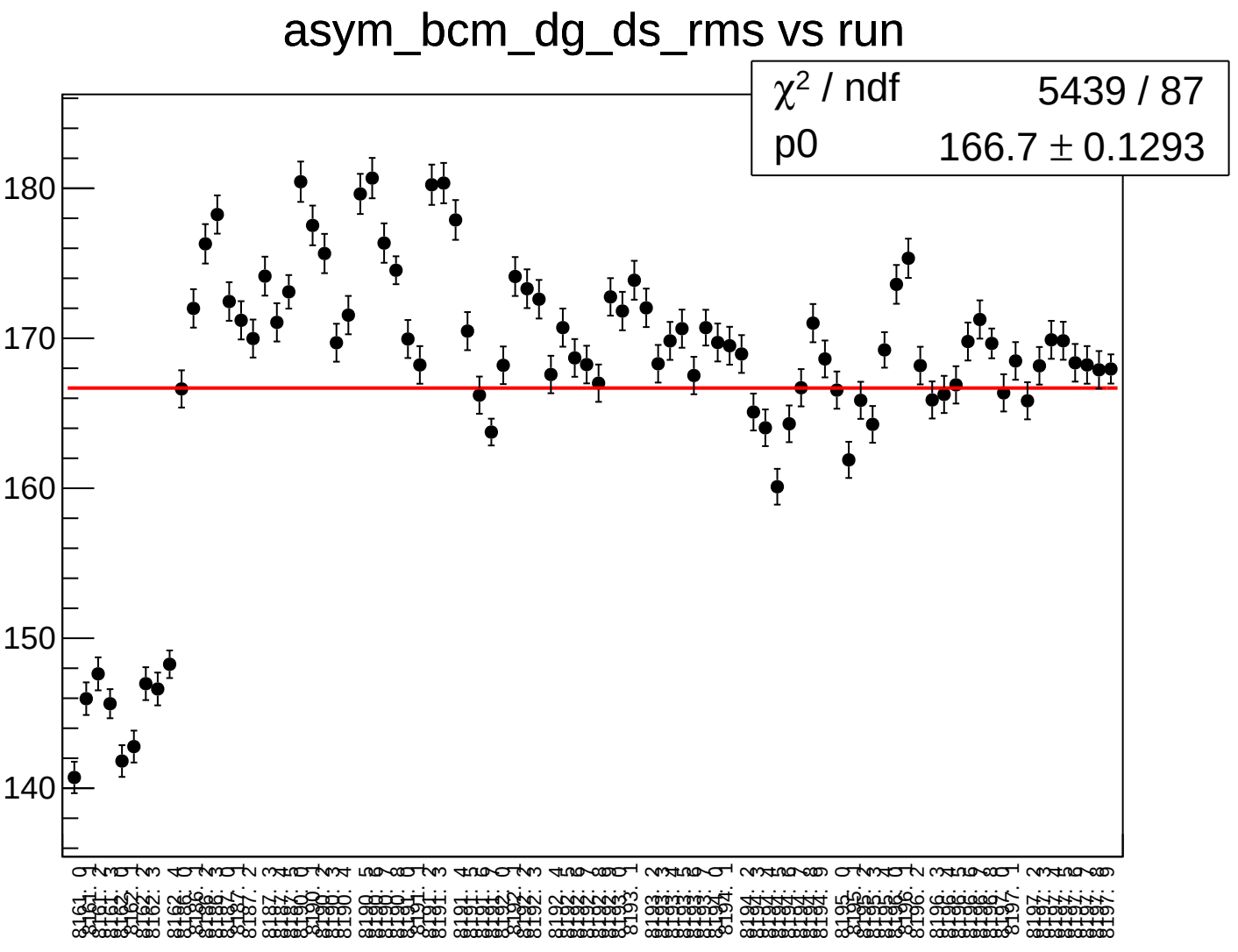

asym_bcm_dg_us_mean vs run
χ² / ndf 25.79 / 87
p0 78.1 ± 184.7
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 133.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

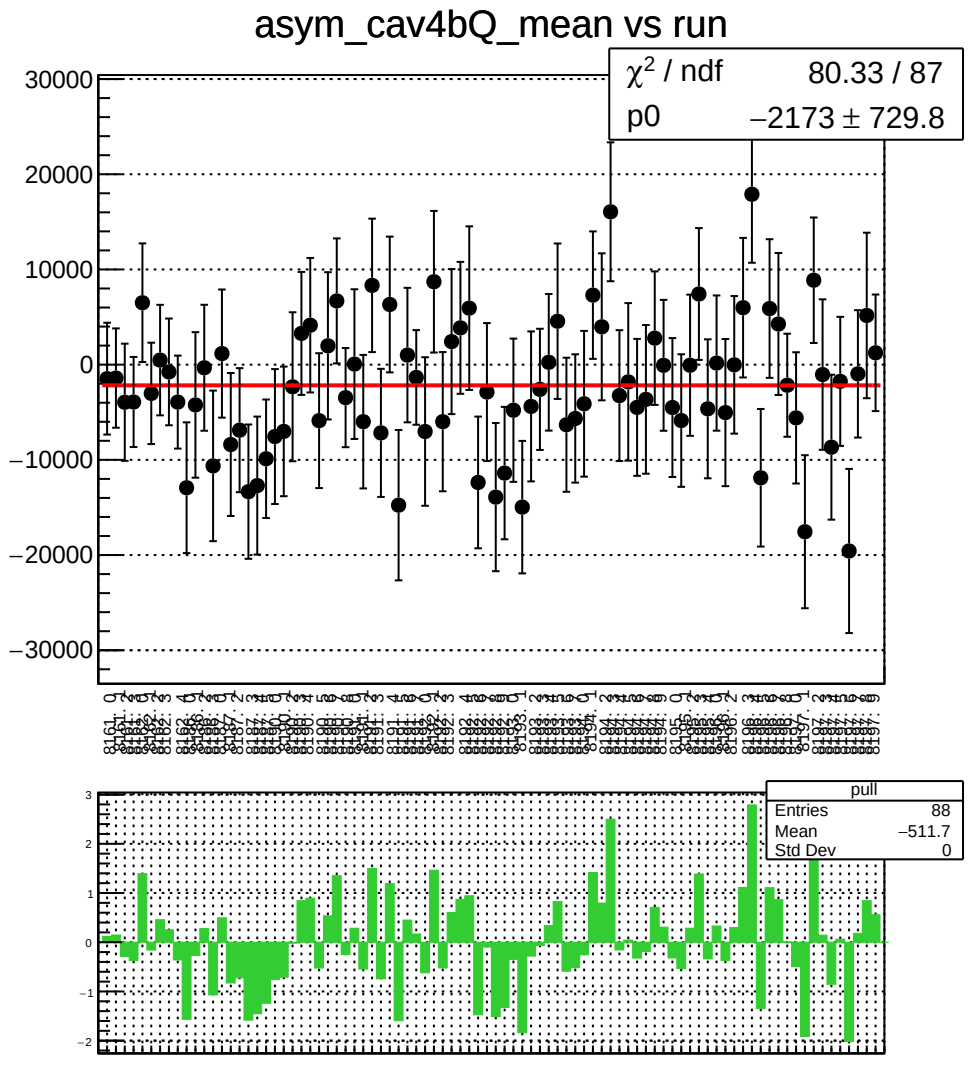

pull1D
Entries 88
Mean −0.008001
Std Dev 0.5413
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

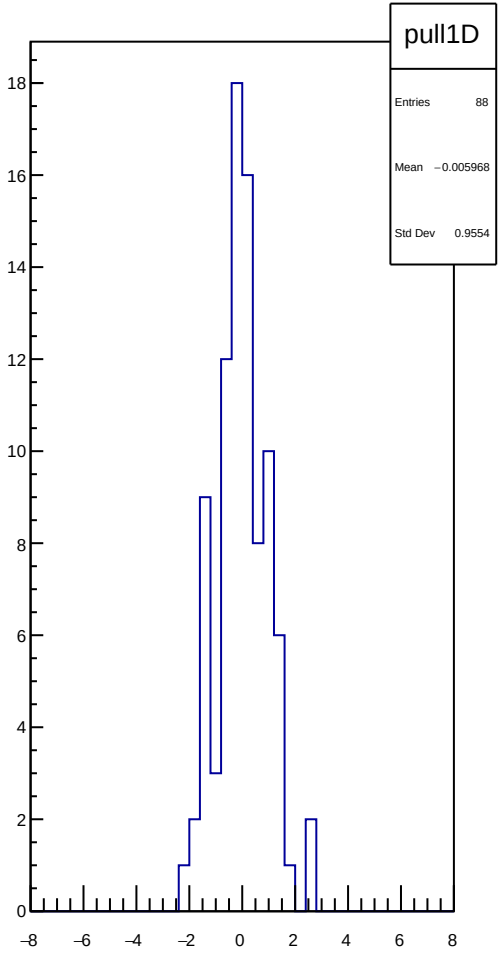

asym_bcm_dg_us_rms vs run
χ² / ndf 5005 / 87
p0 168.4 ± 0.1306
185
180
175
170
165
160
155
150
145
140


asym_bcm_dg_ds_mean vs run
χ² / ndf 22.15 / 87
p0 65.13 ± 182.9
pull
Entries 88
Mean 86.4
Std Dev 0

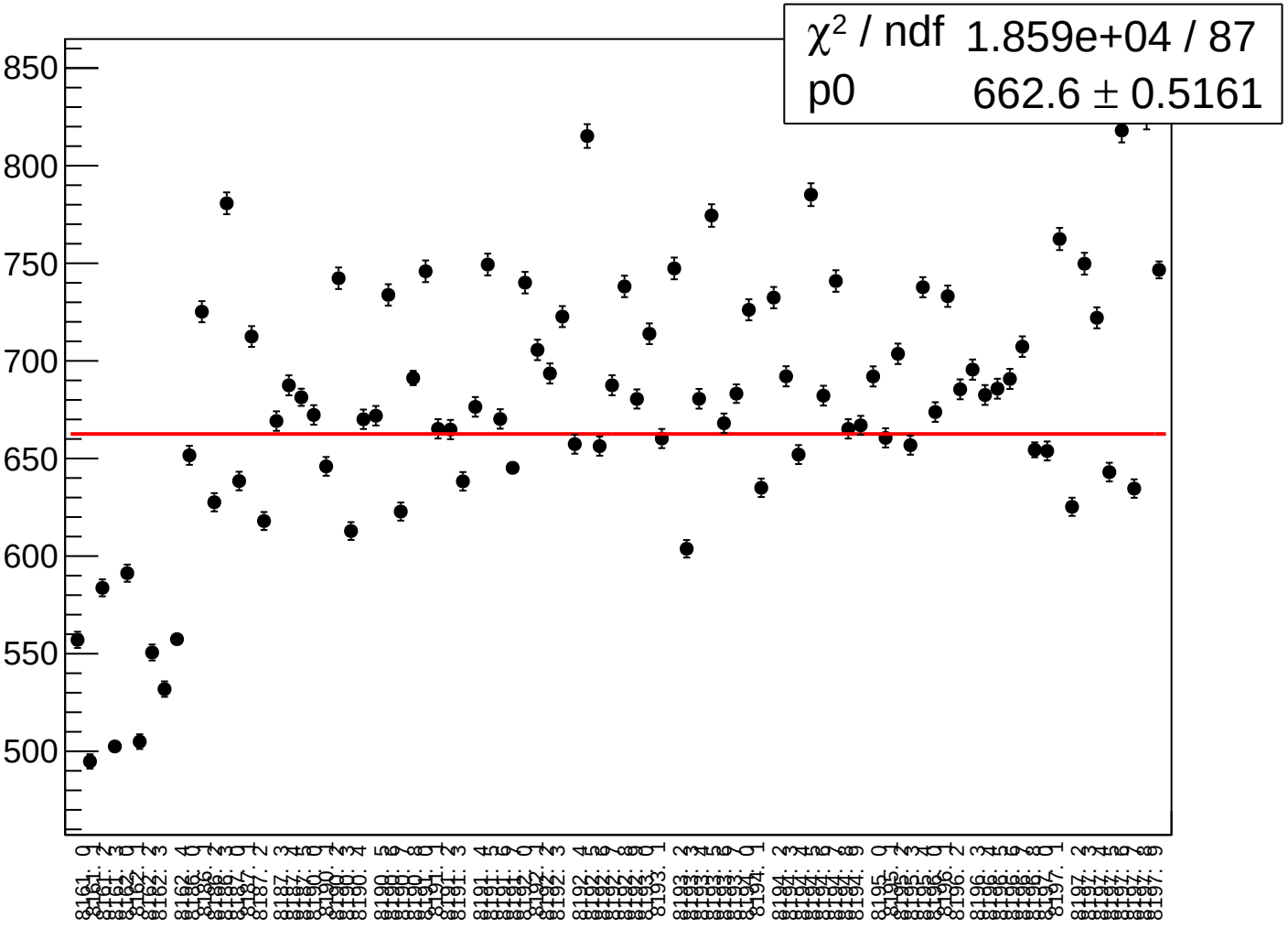

pull1D
Entries 88
Mean −0.005281
Std Dev 0.5017

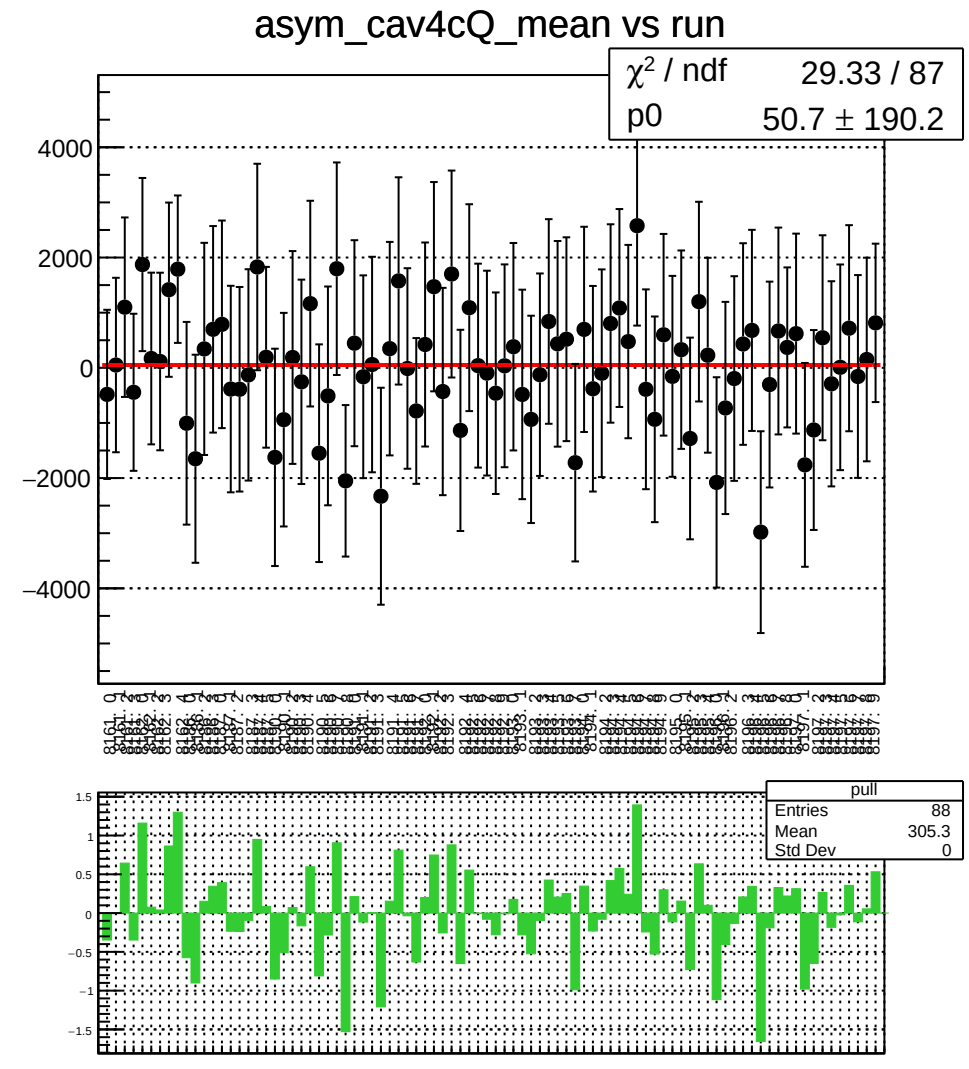

asym_bcm_dg_ds_rms vs run
χ² / ndf 5439 / 87
p0 166.7 ± 0.1293
180
170
160
150
140

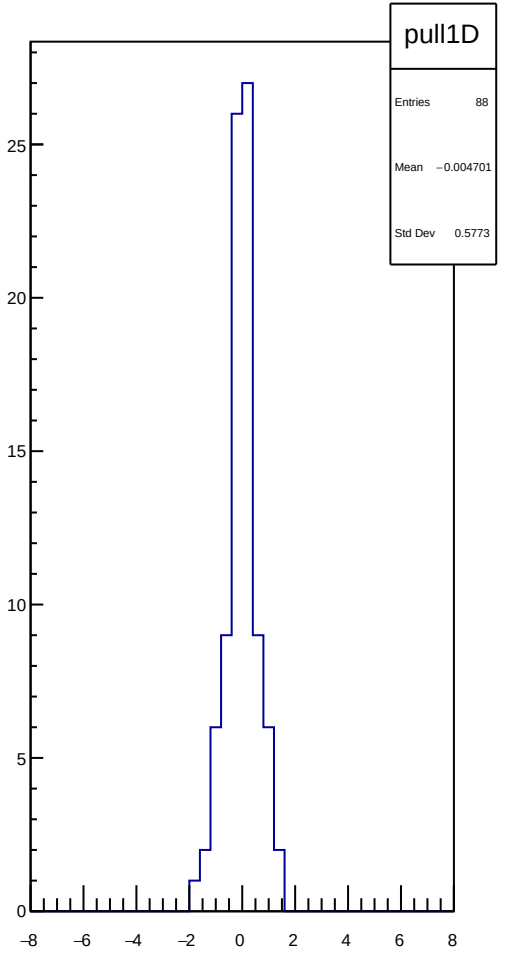

asym_cav4bQ_mean vs run
χ² / ndf 80.33 / 87
p0 −2173 ± 729.8
pull
Entries 88
Mean −511.7
Std Dev 0

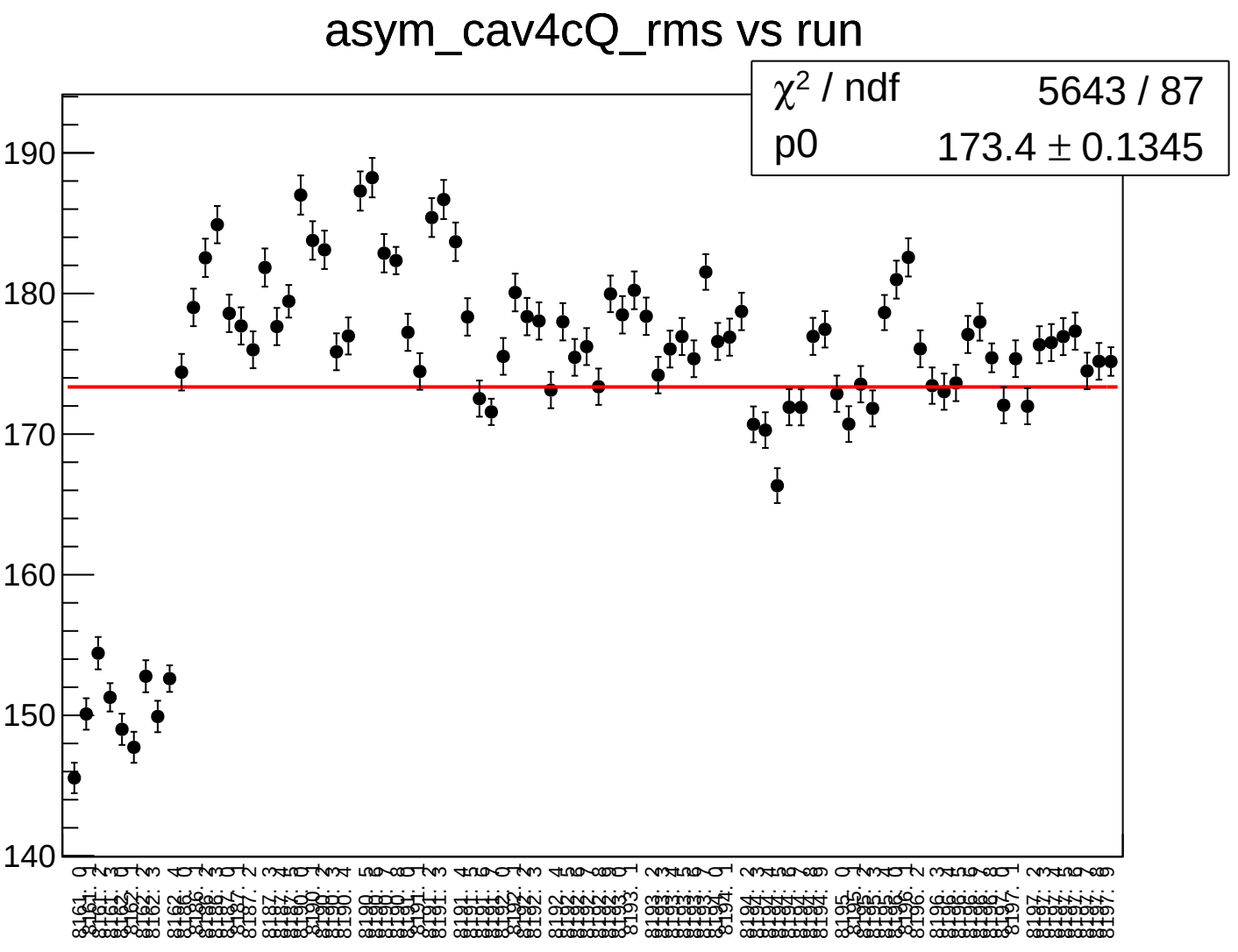

pull1D
Entries 88
Mean −0.005968
Std Dev 0.9554

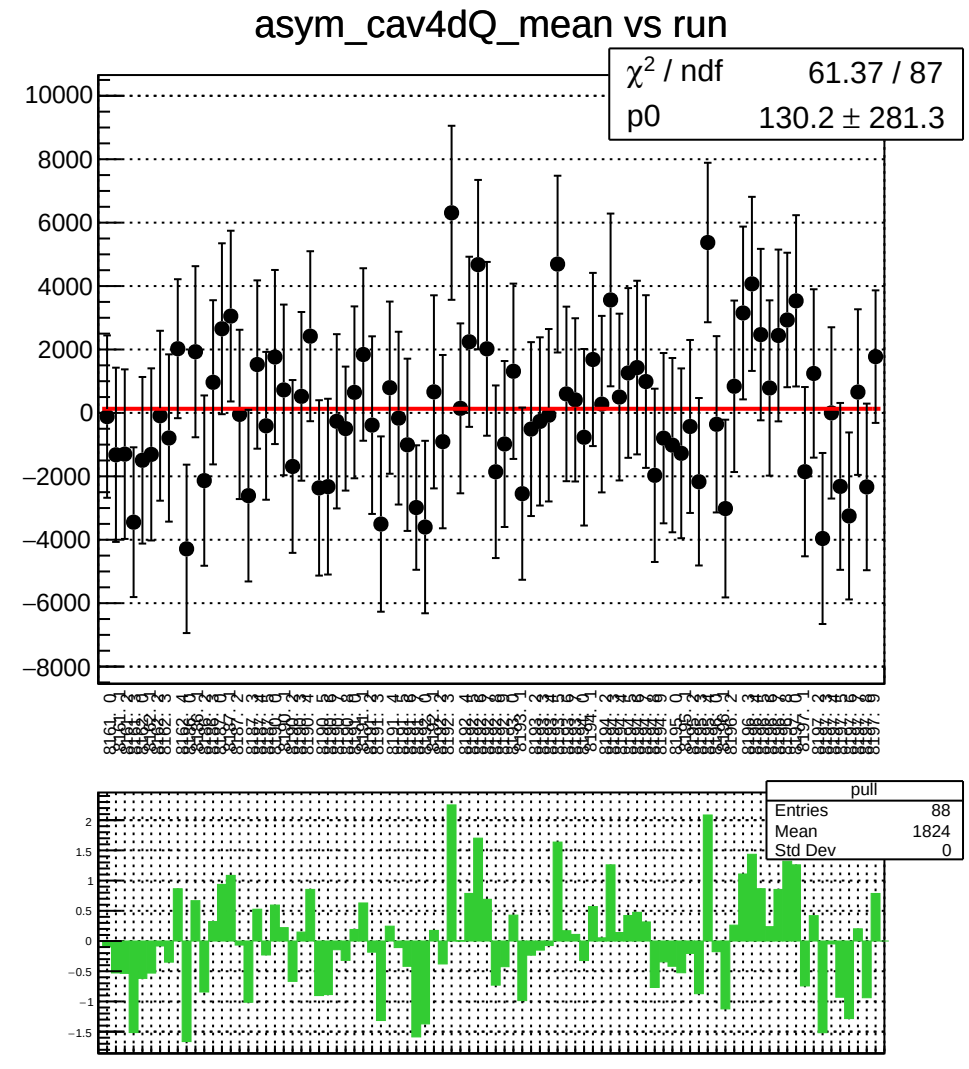
asym_cav4bQ_rms vs run

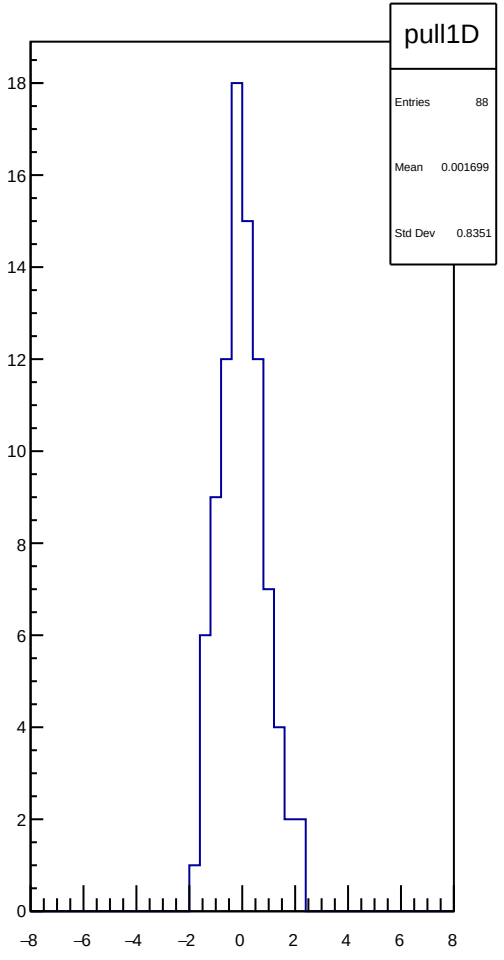


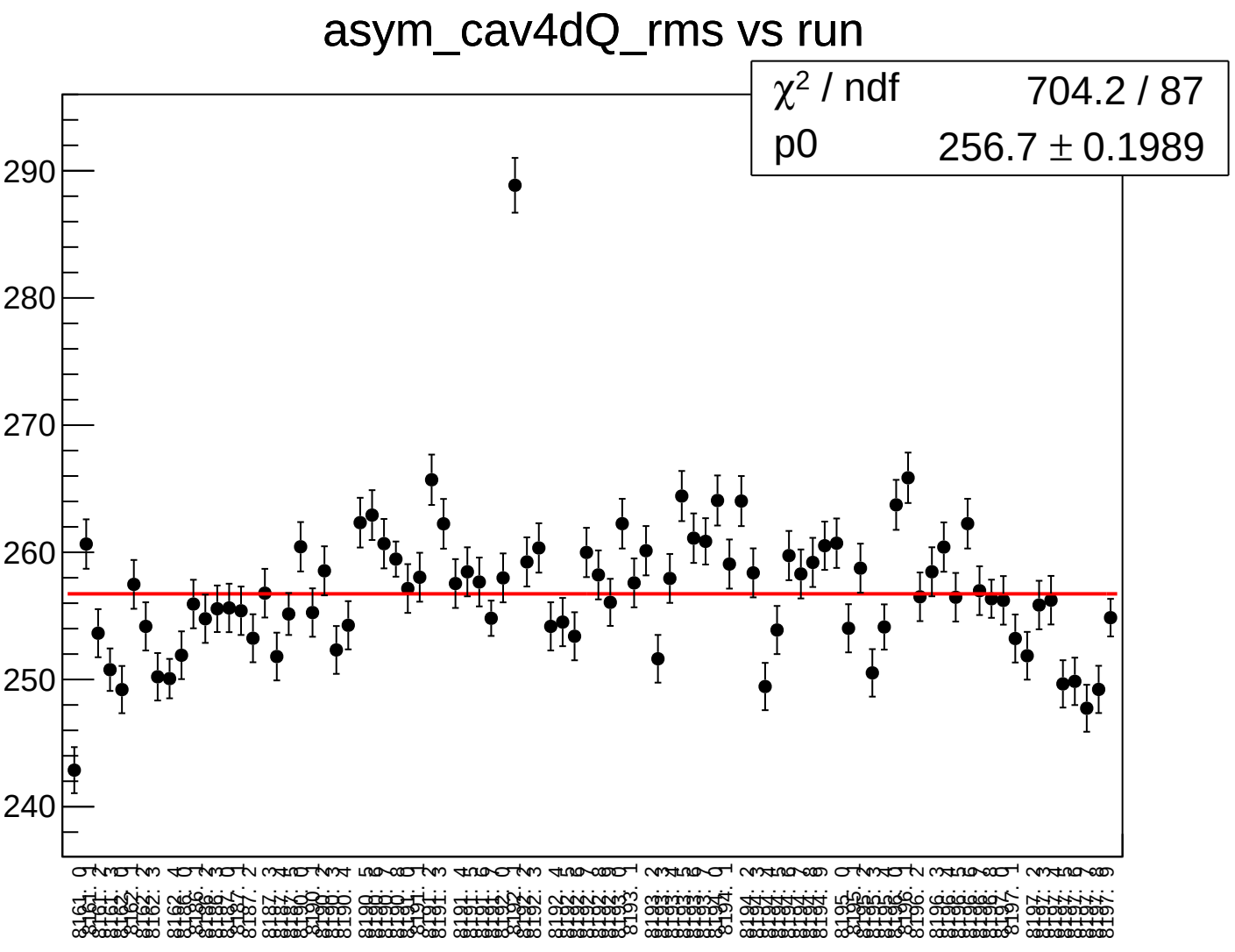

asym_cav4cQ_mean vs run
χ² / ndf 29.33 / 87
p0 50.7 ± 190.2
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 305.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

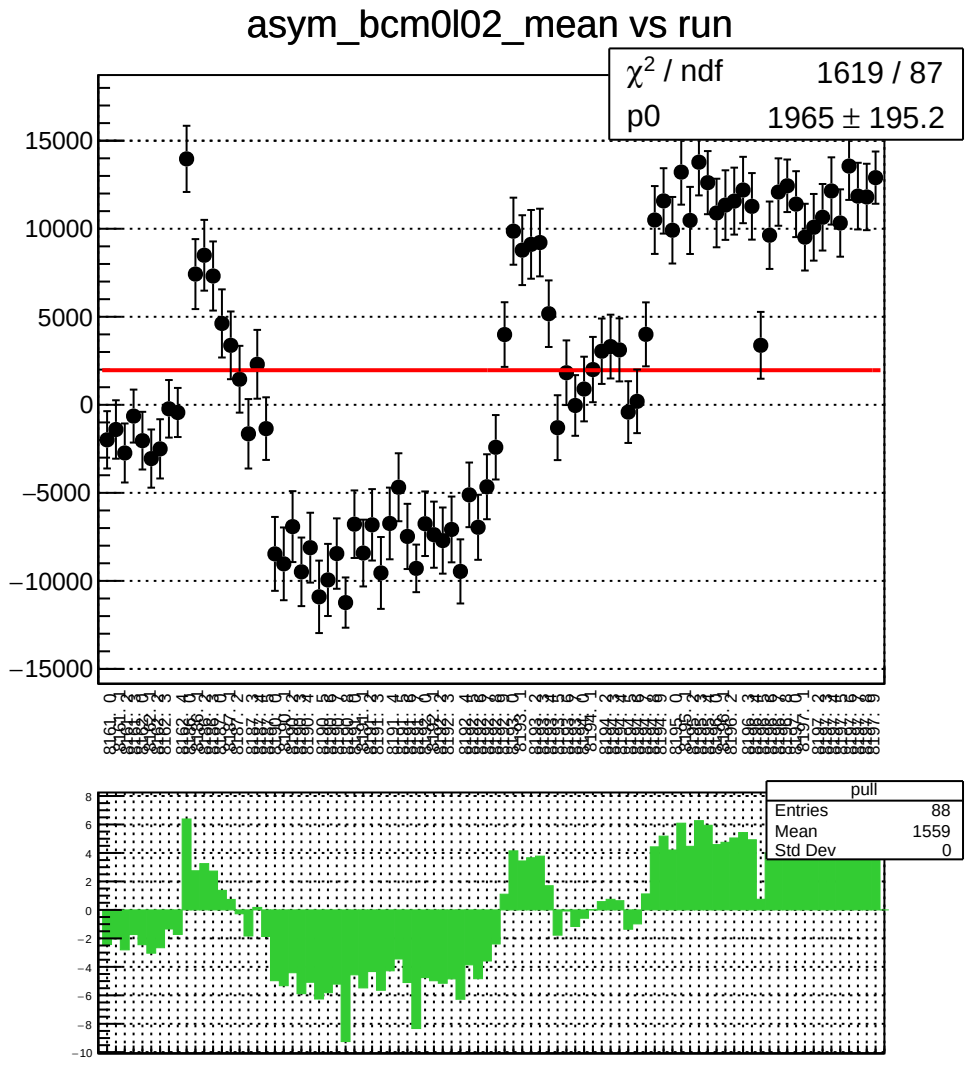

pull1D
Entries 88
Mean −0.004701
Std Dev 0.5773
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

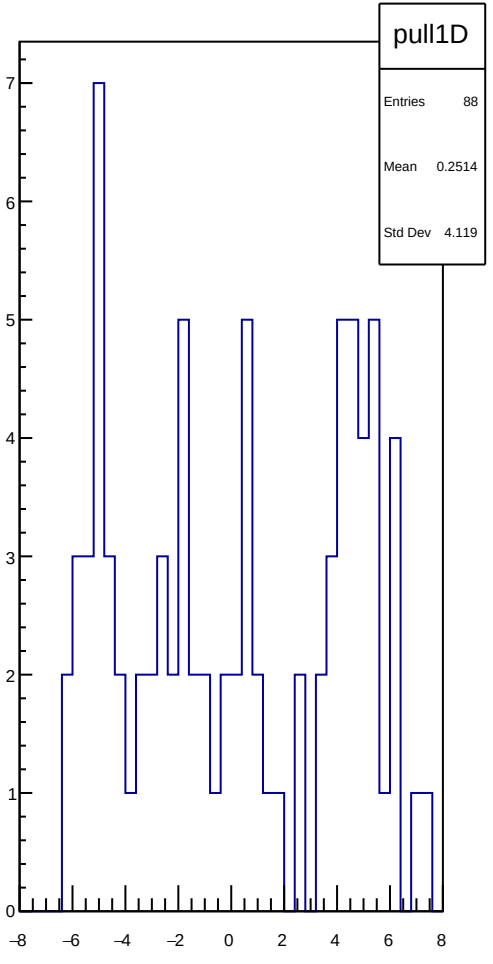

asym_cav4cQ_rms vs run
χ² / ndf 5643 / 87
p0 173.4 ± 0.1345
190
180
170
160
150
140

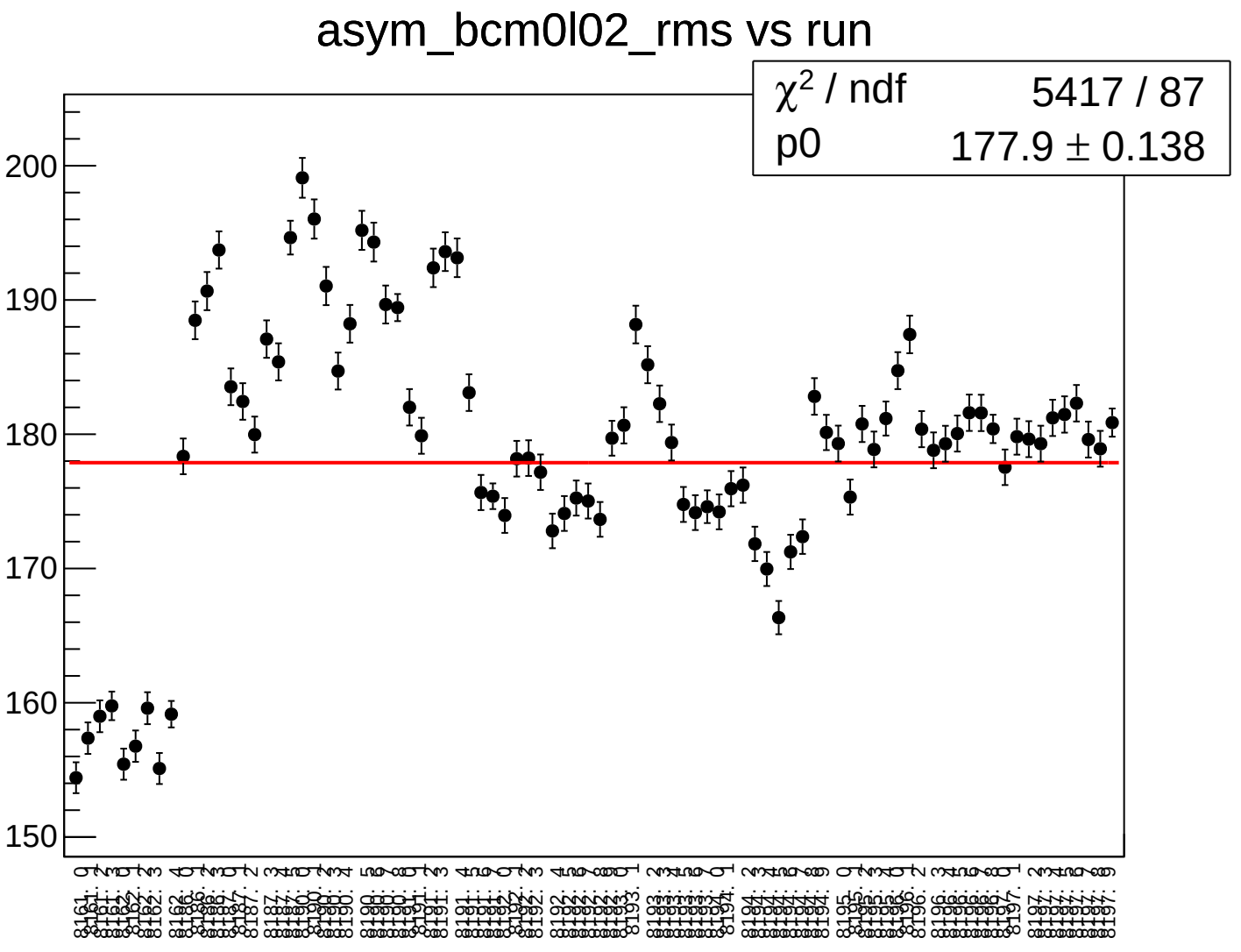

asym_cav4dQ_mean vs run
χ² / ndf 61.37 / 87
p0 130.2 ± 281.3
pull
Entries 88
Mean 1824
Std Dev 0

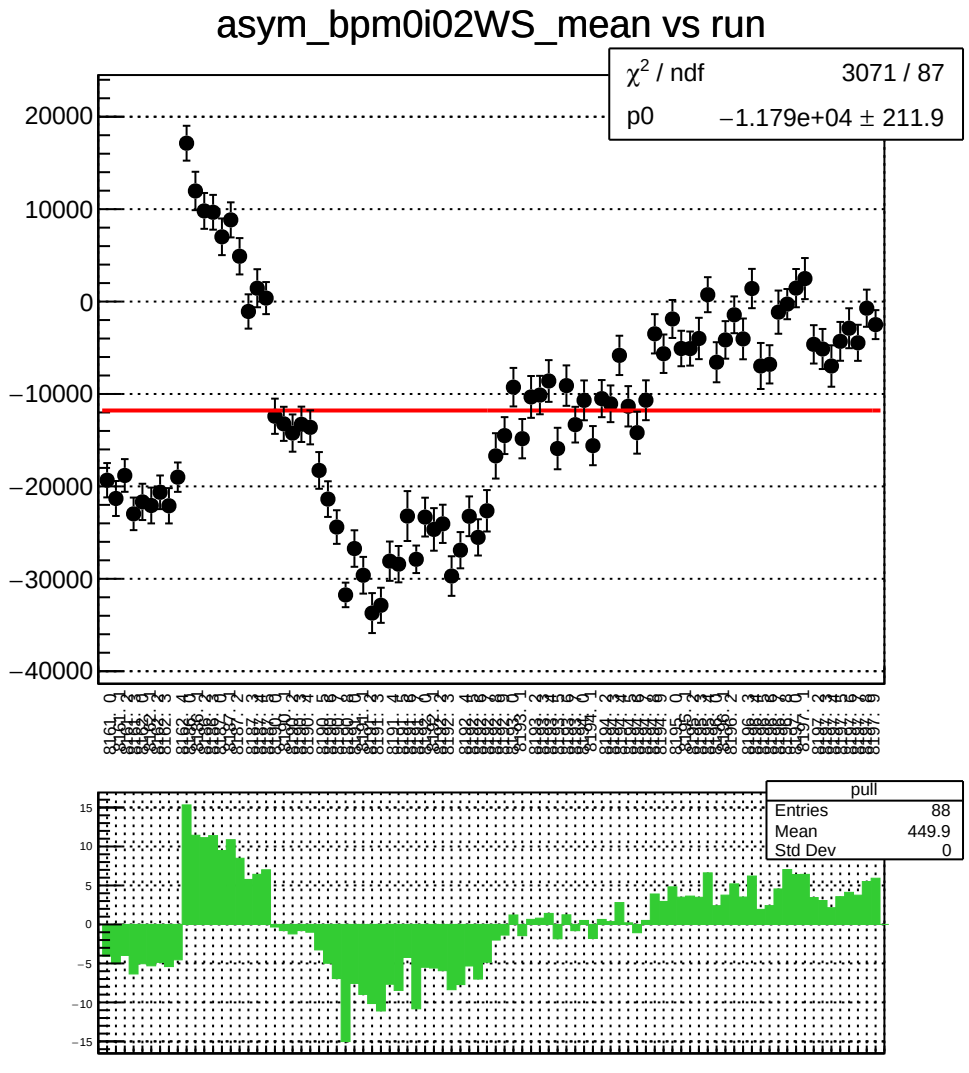

pull1D
Entries 88
Mean 0.001699
Std Dev 0.8351

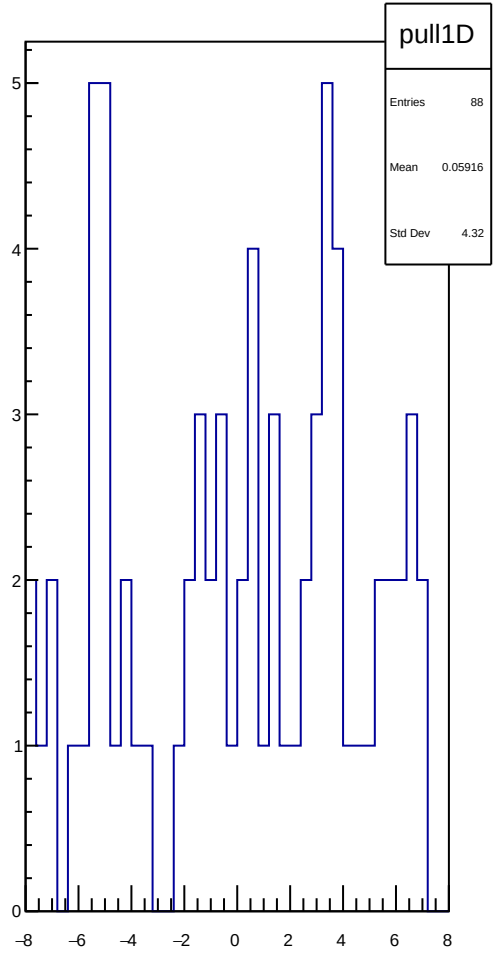

asym_cav4dQ_rms vs run
χ² / ndf 704.2 / 87
p0 256.7 ± 0.1989
290
280
270
260
250
240

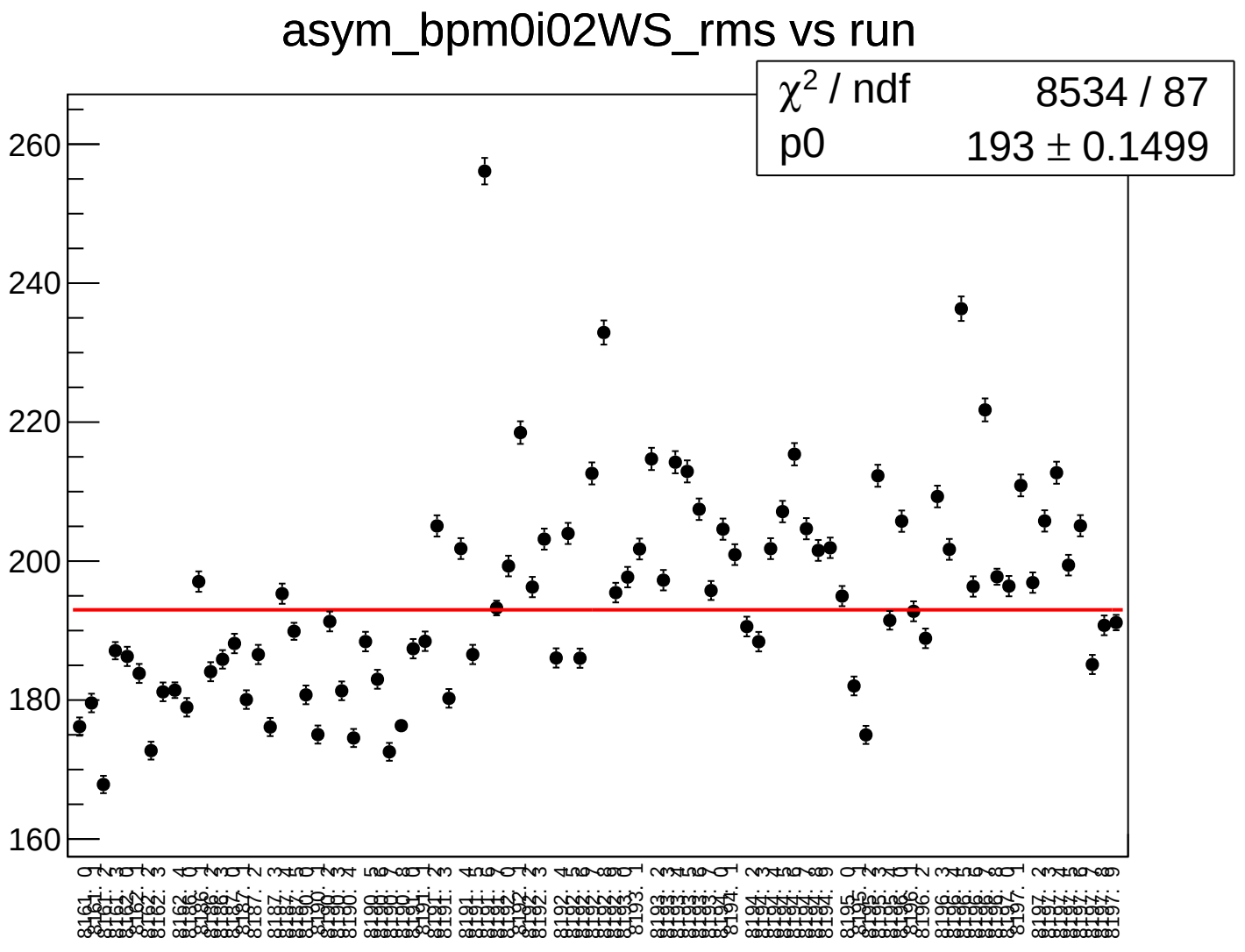

asym_bcm0l02_mean vs run
χ² / ndf 1619 / 87
p0 1965 ± 195.2
pull
Entries 88
Mean 1559
Std Dev 0

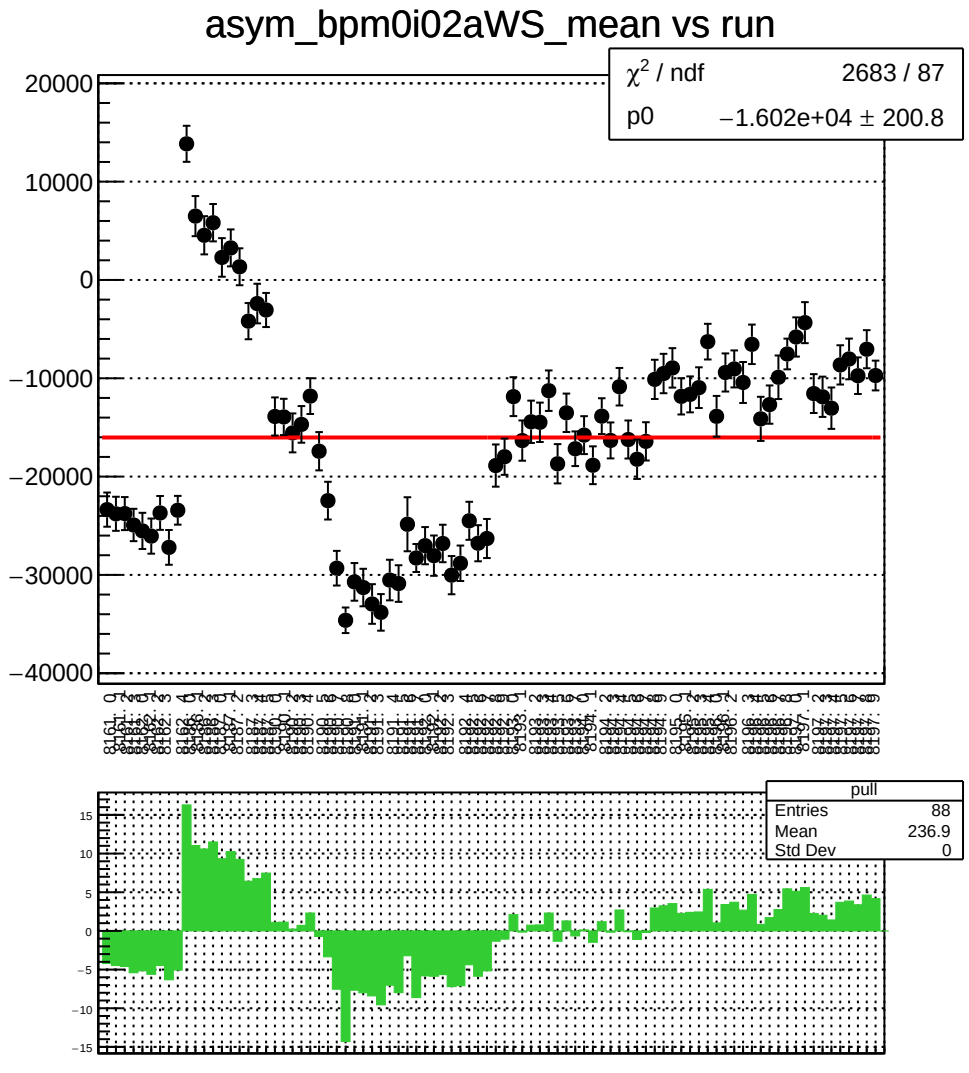

pull1D
Entries 88
Mean 0.2514
Std Dev 4.119

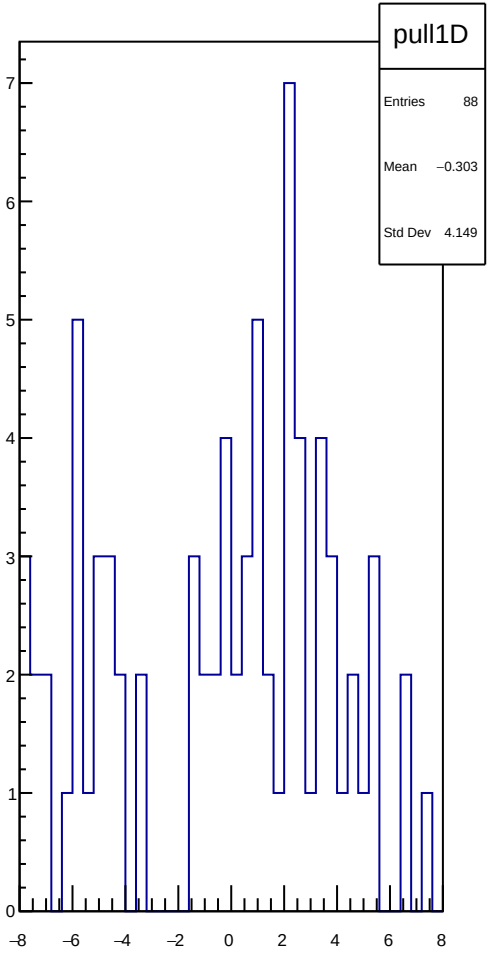

asym_bcm0l02_rms vs run
χ^2 / ndf 5417 / 87
p0 177.9 ± 0.138
200
190
180
170
160
150

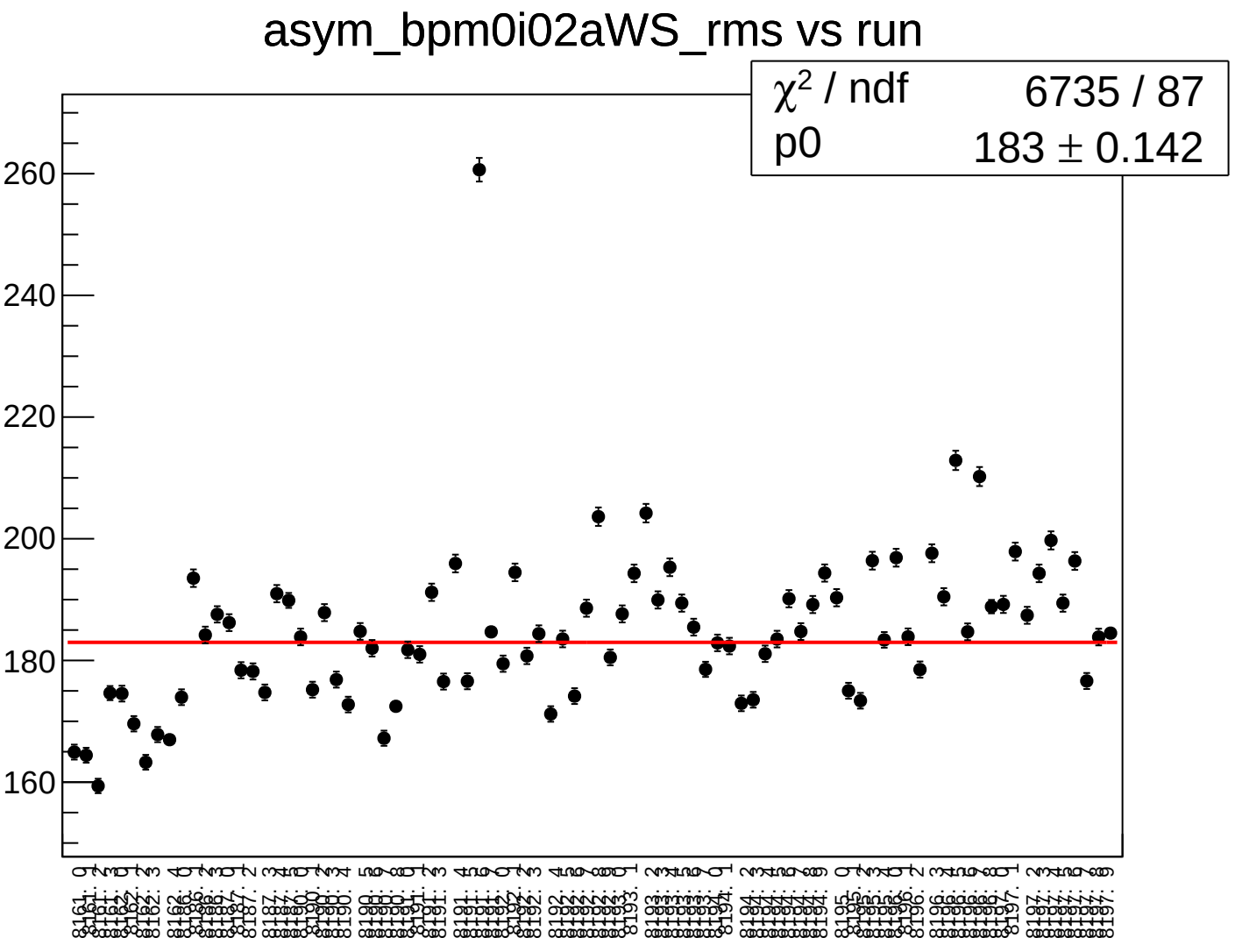

asym_bpm0i02WS_mean vs run
χ² / ndf 3071 / 87
p0 −1.179e+04 ± 211.9
pull
Entries 88
Mean 449.9
Std Dev 0

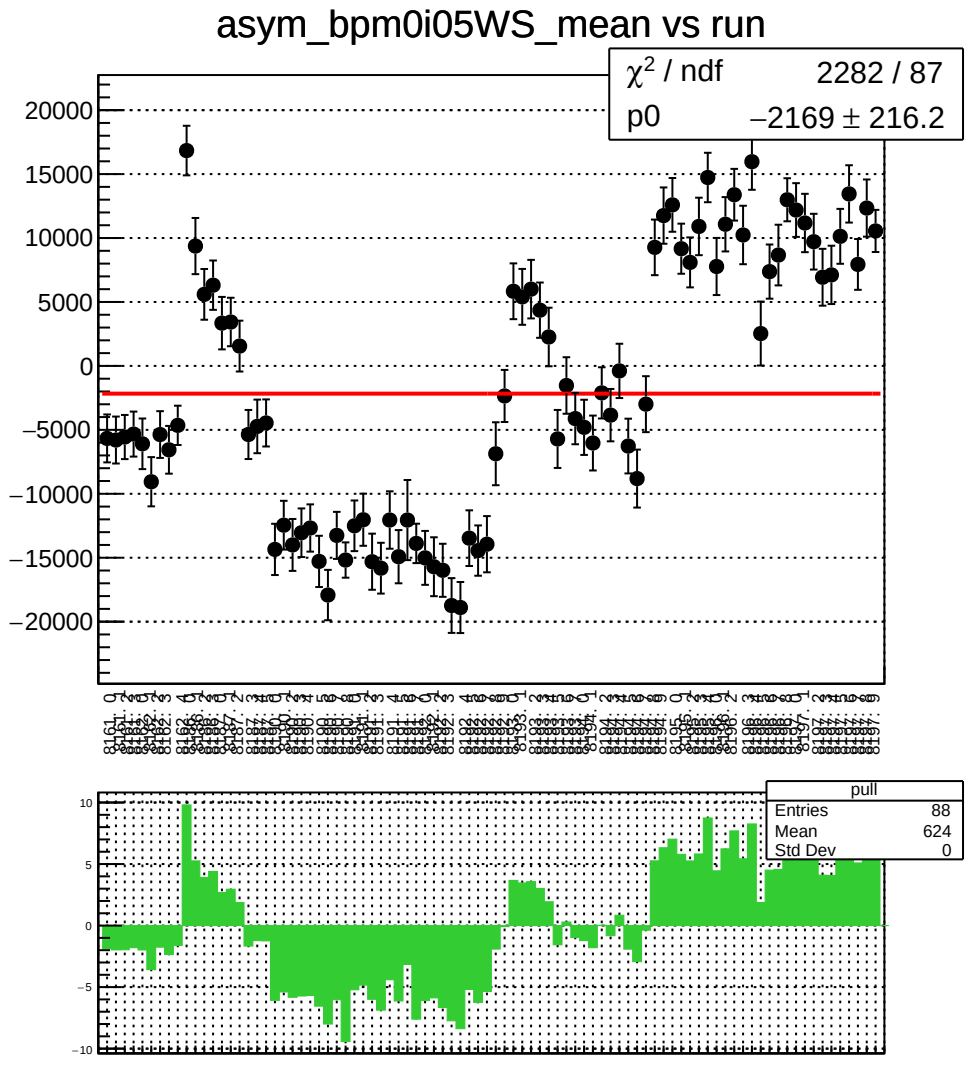

pull1D
Entries 88
Mean 0.05916
Std Dev 4.32

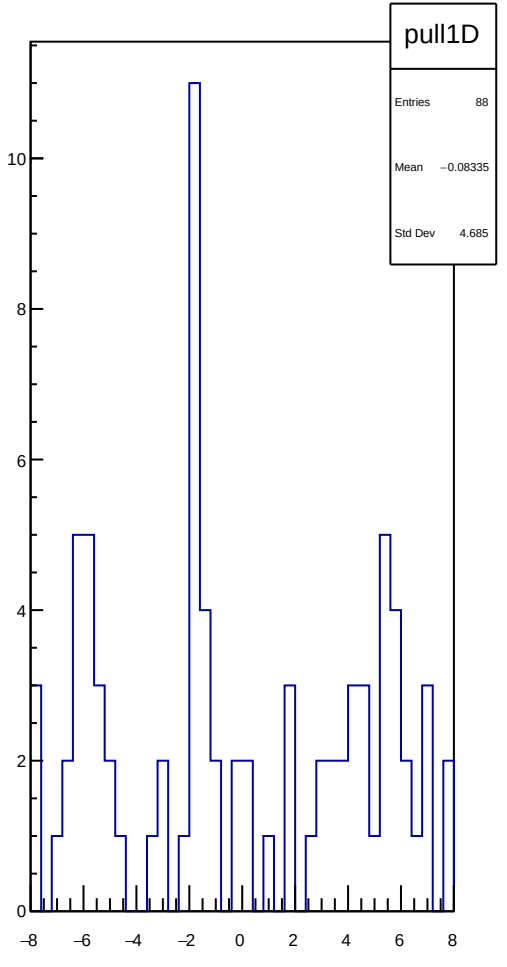

asym_bpm0i02WS_rms vs run
χ² / ndf 8534 / 87
p0 193 ± 0.1499
260
240
220
200
180
160

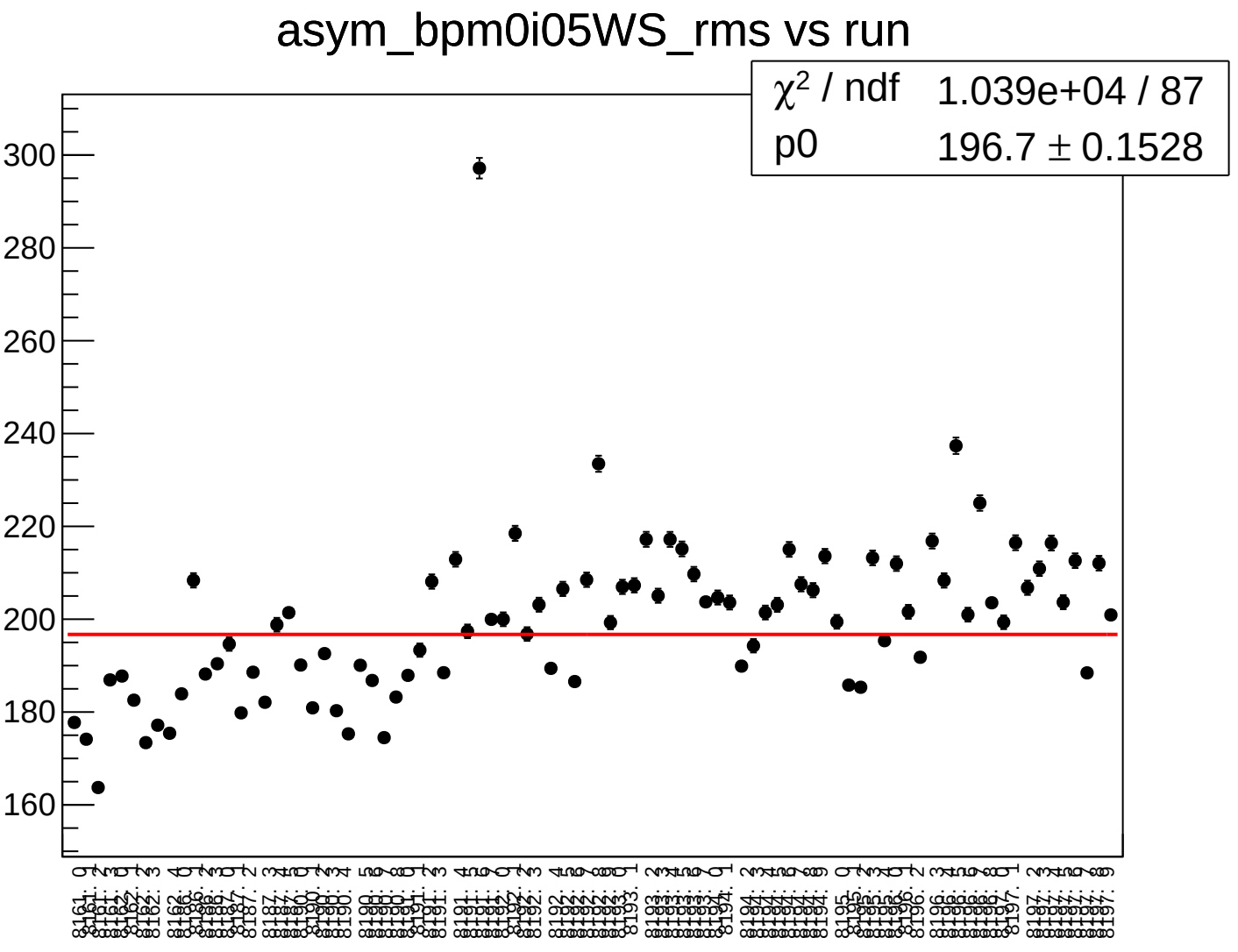

asym_bpm0i02aWS_mean vs run
χ² / ndf 2683 / 87
p0 −1.602e+04 ± 200.8
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 236.9
Std Dev 0
15
10
5
0
−5
−10
−15

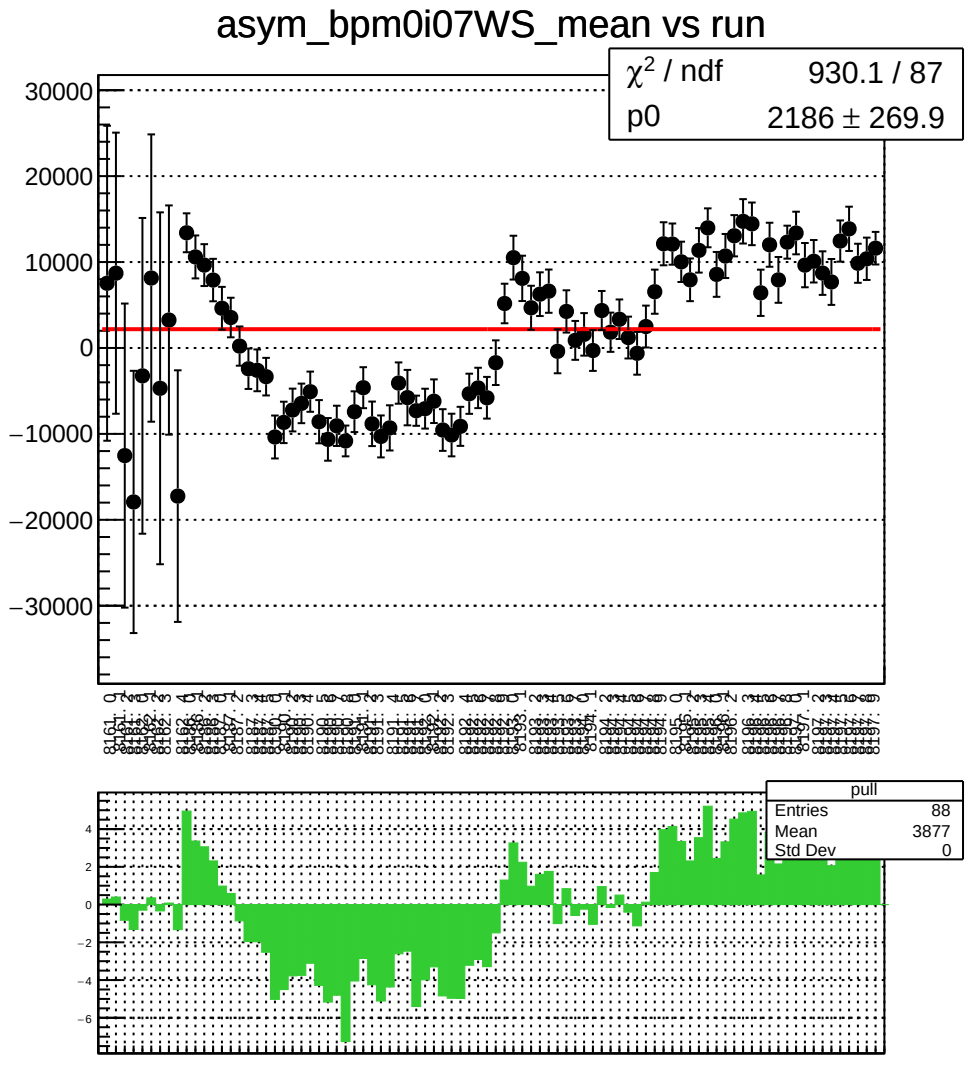

pull1D
Entries 88
Mean −0.303
Std Dev 4.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

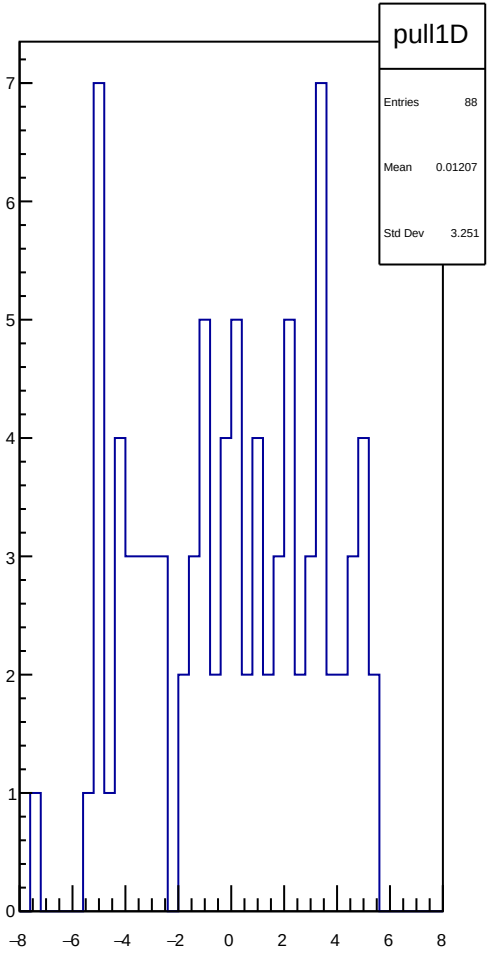

asym_bpm0i02aWS_rms vs run
χ² / ndf 6735 / 87
p0 183 ± 0.142
260
240
220
200
180
160

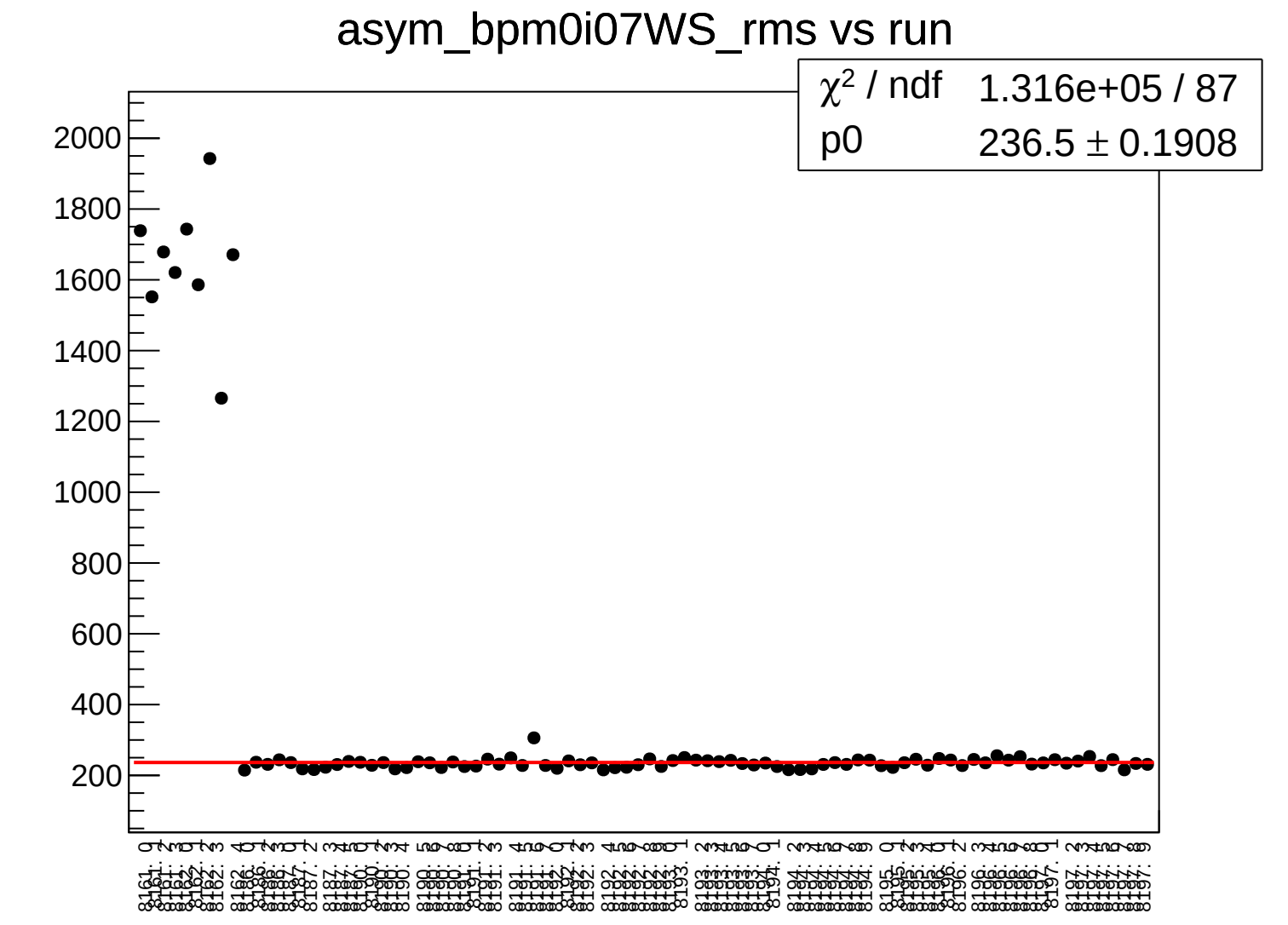

asym_bpm0i05WS_mean vs run
χ² / ndf 2282 / 87
p0 −2169 ± 216.2
pull
Entries 88
Mean 624
Std Dev 0

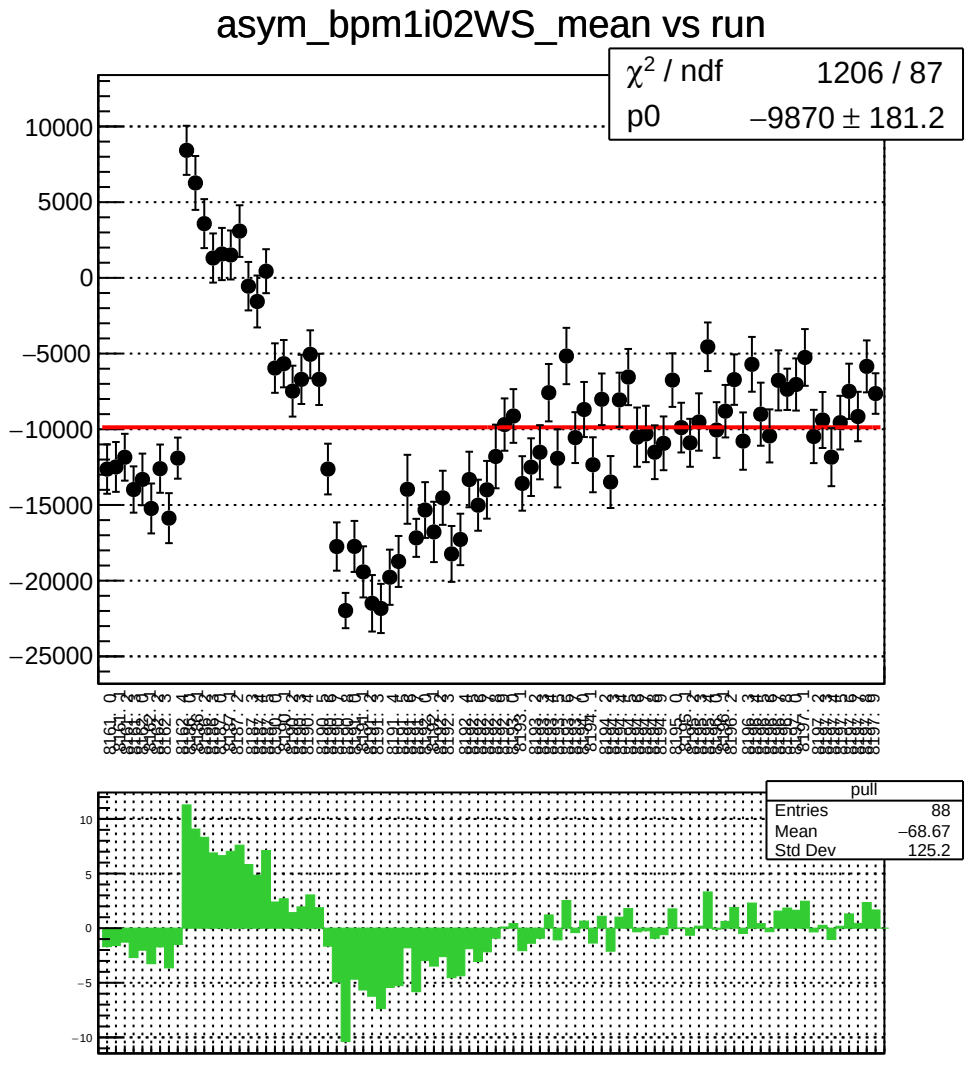

pull1D
Entries 88
Mean −0.08335
Std Dev 4.685

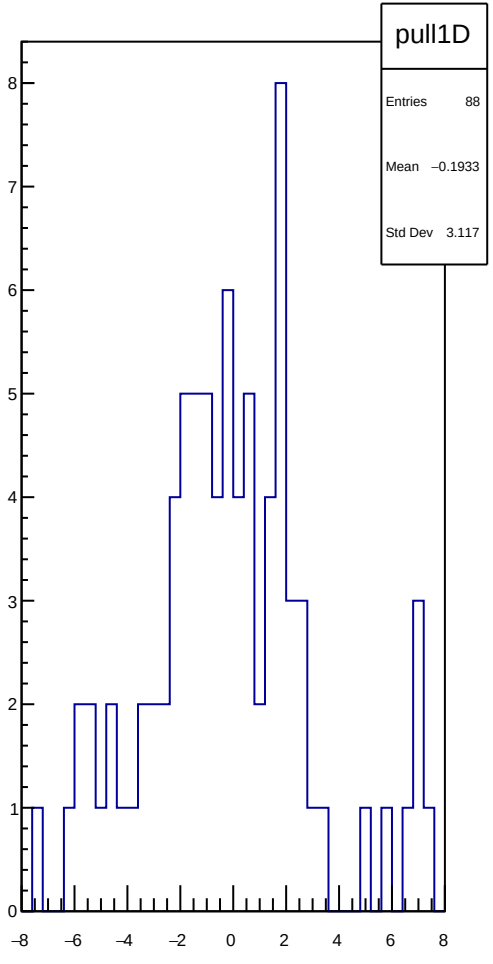

asym_bpm0i05WS_rms vs run
χ² / ndf 1.039e+04 / 87
p0 196.7 ± 0.1528
300
280
260
240
220
200
180
160

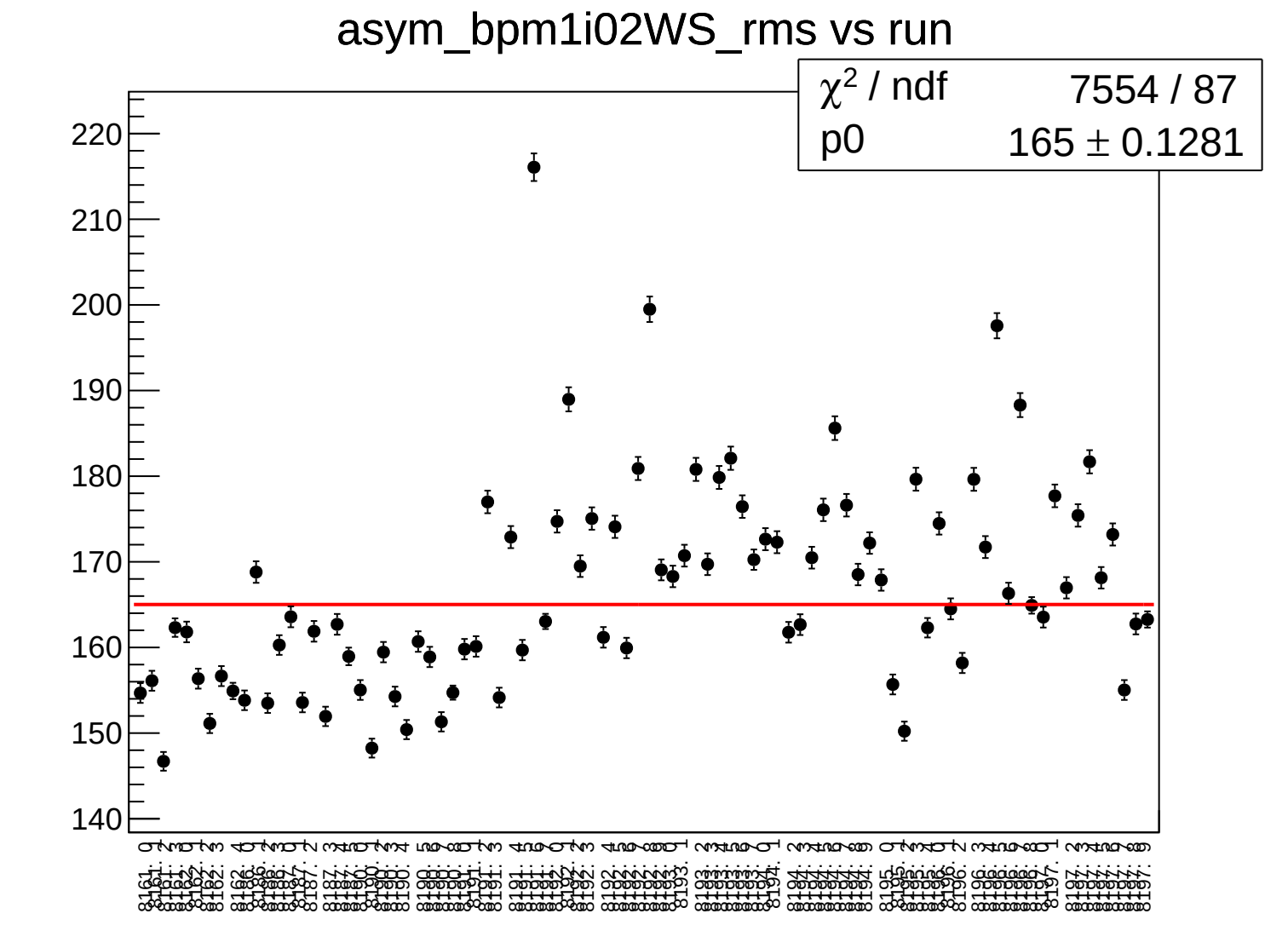

asym_bpm0i07WS_mean vs run
χ² / ndf 930.1 / 87
p0 2186 ± 269.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 3877
Std Dev 0
4
2
0
−2
−4
−6

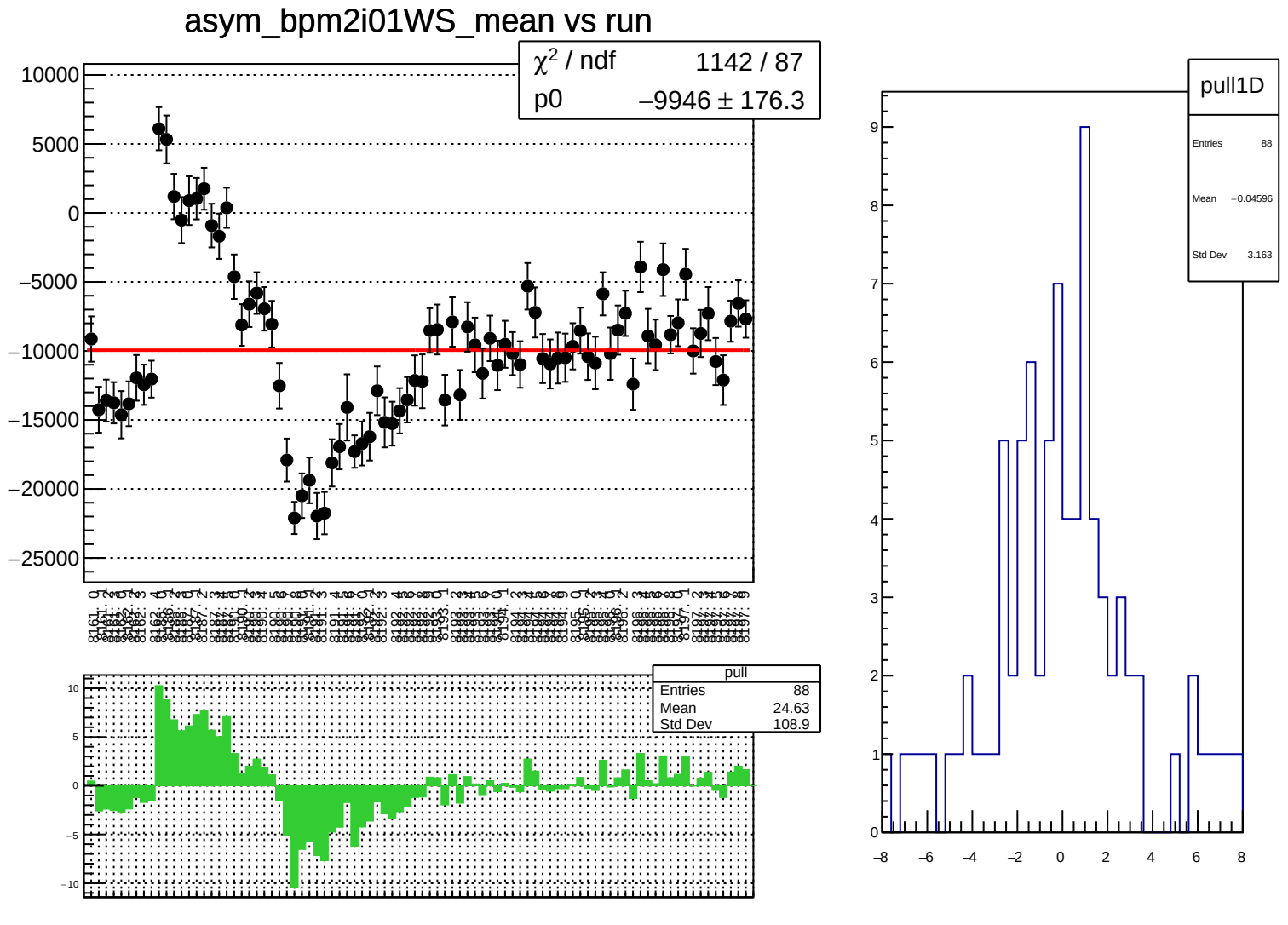

pull1D
Entries 88
Mean 0.01207
Std Dev 3.251
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

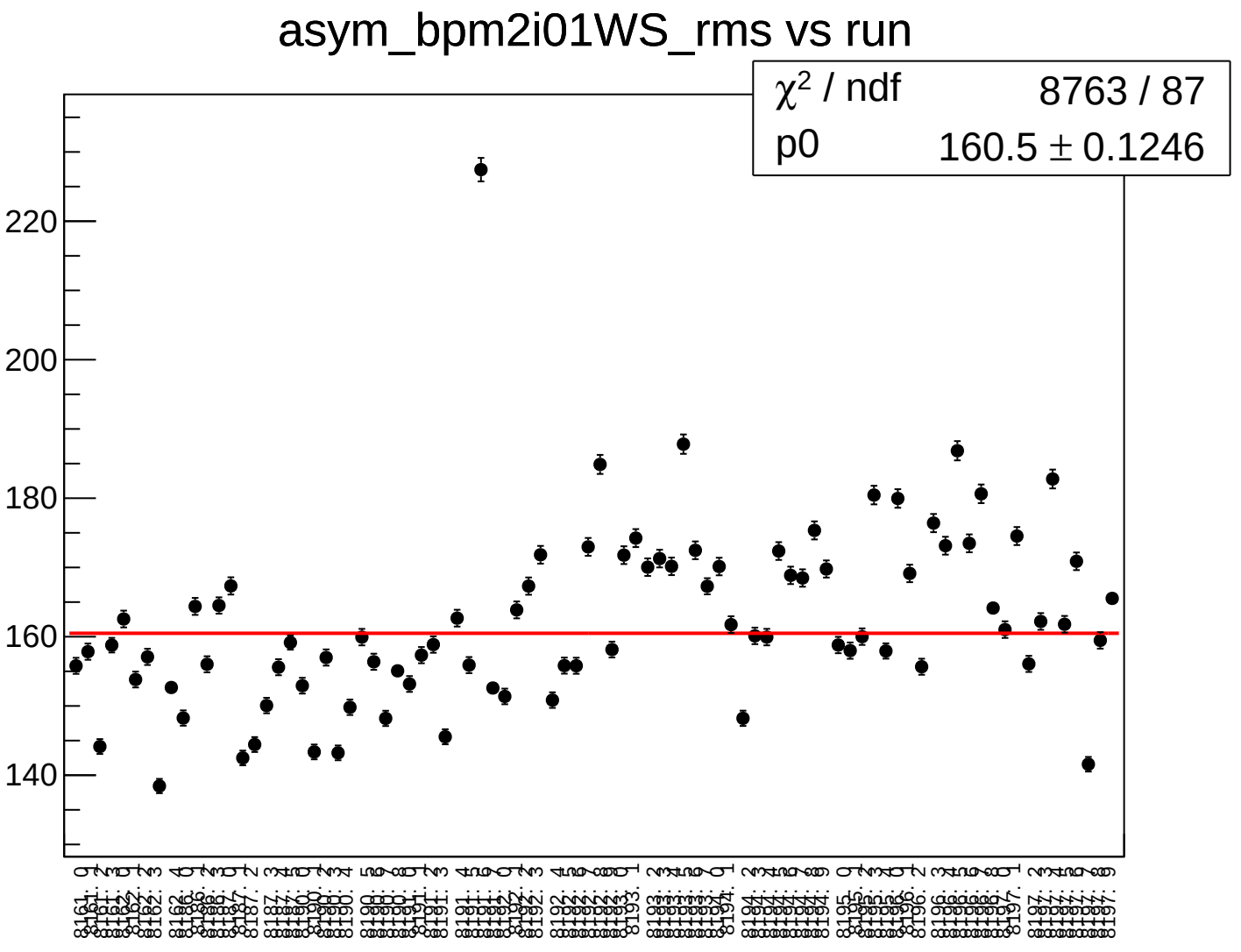

asym_bpm0i07WS_rms vs run
χ² / ndf 1.316e+05 / 87
p0 236.5 ± 0.1908
2000
1800
1600
1400
1200
1000
800
600
400
200

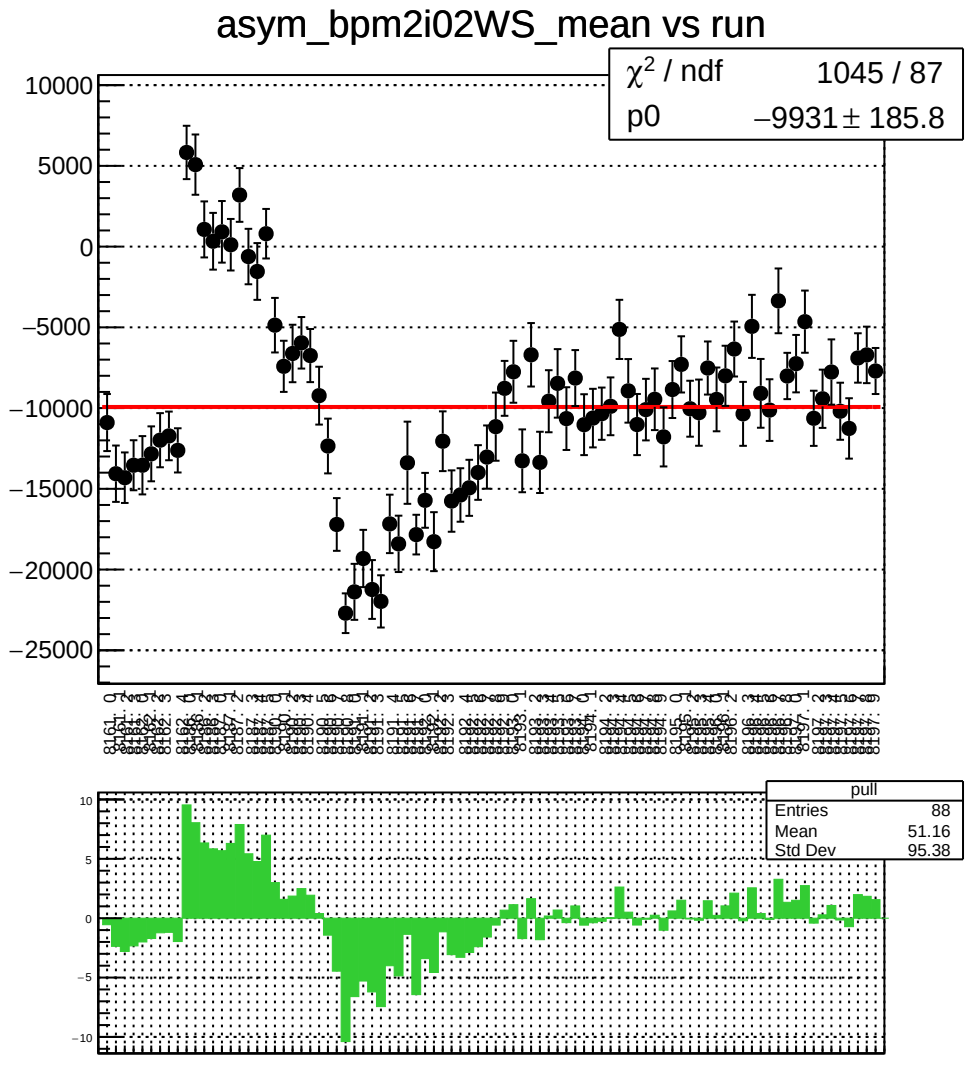

asym_bpm1i02WS_mean vs run
χ² / ndf 1206 / 87
p0 −9870 ± 181.2
pull
Entries 88
Mean −68.67
Std Dev 125.2

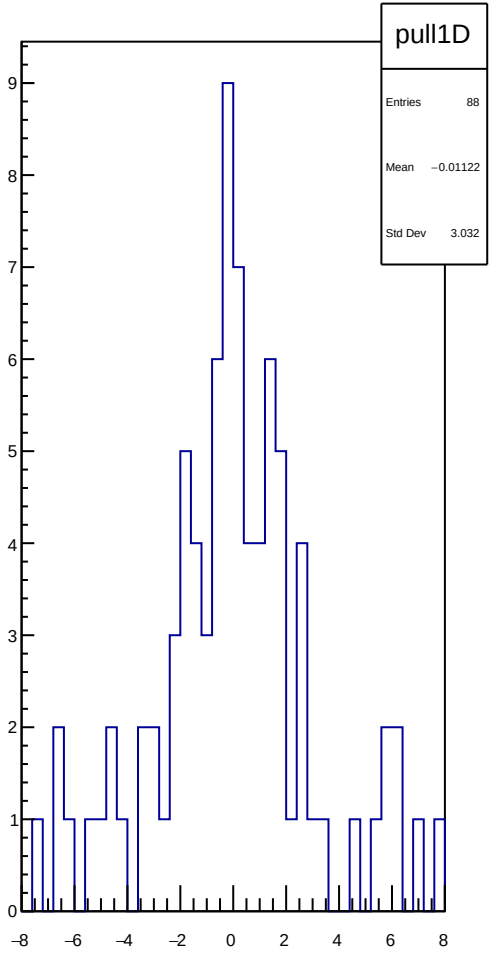

pull1D
Entries 88
Mean −0.1933
Std Dev 3.117

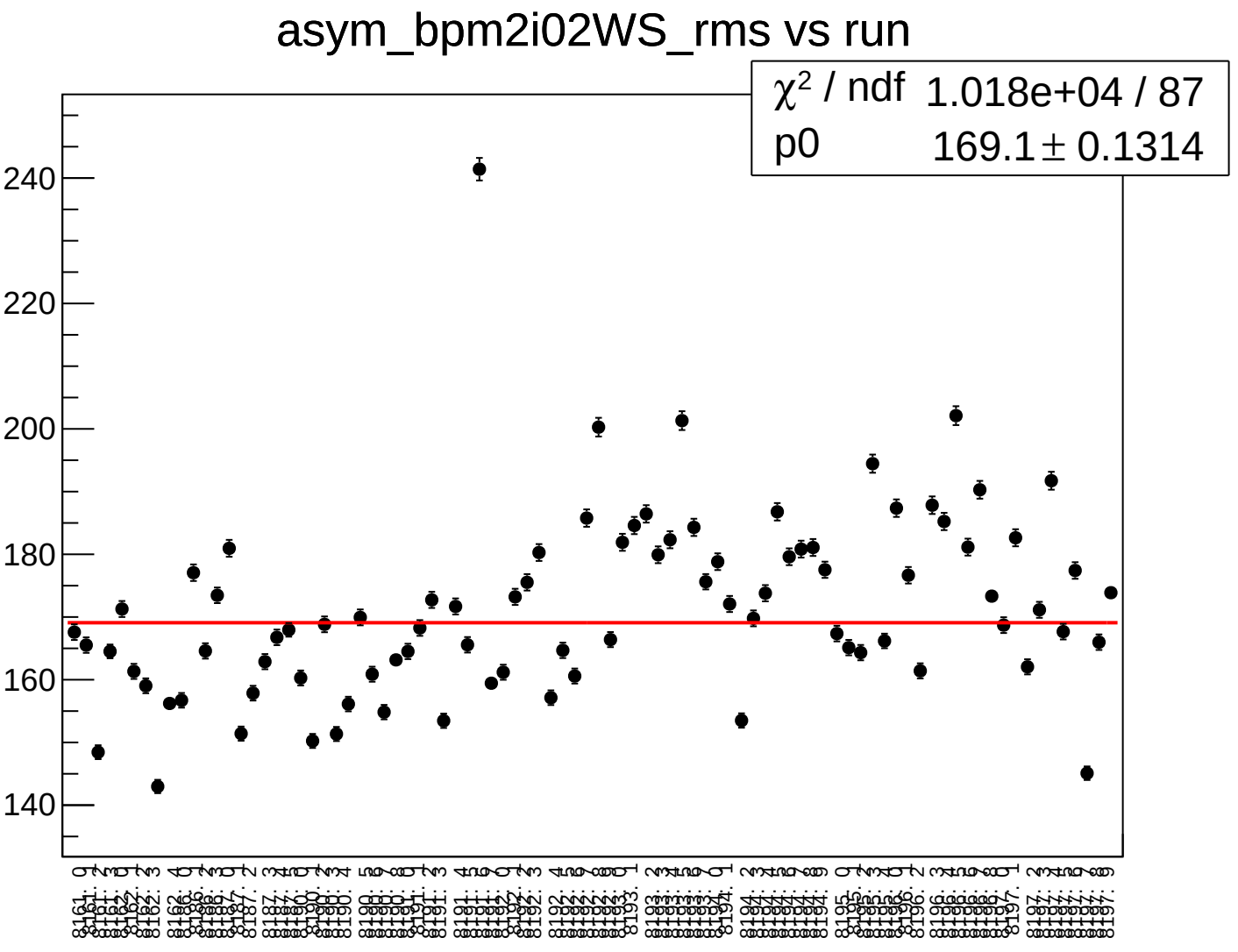

asym_bpm1i02WS_rms vs run
χ² / ndf 7554 / 87
p0 165 ± 0.1281
220
210
200
190
180
170
160
150
140

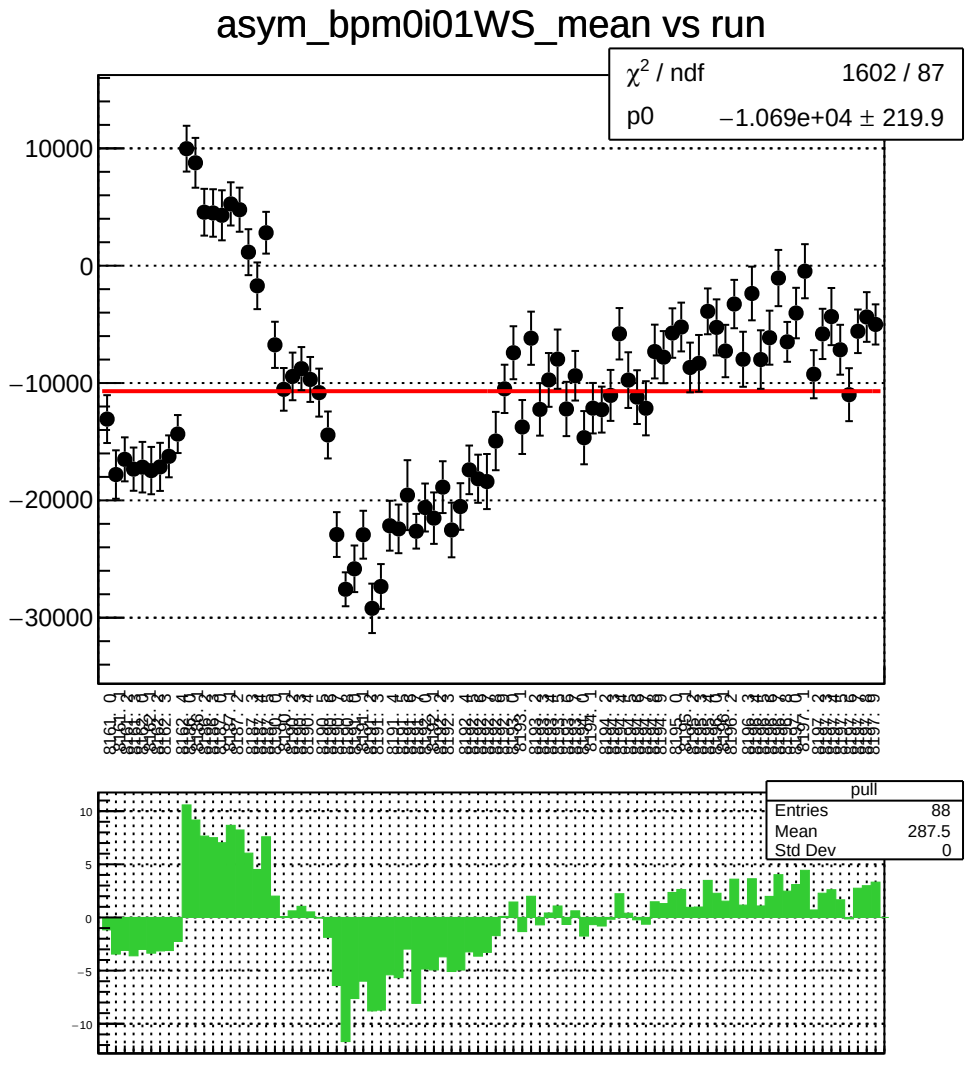

asym_bpm2i01WS_mean vs run
χ² / ndf 1142 / 87
p0 −9946 ± 176.3
pull
Entries 88
Mean 24.63
Std Dev 108.9
pull1D
Entries 88
Mean −0.04596
Std Dev 3.163

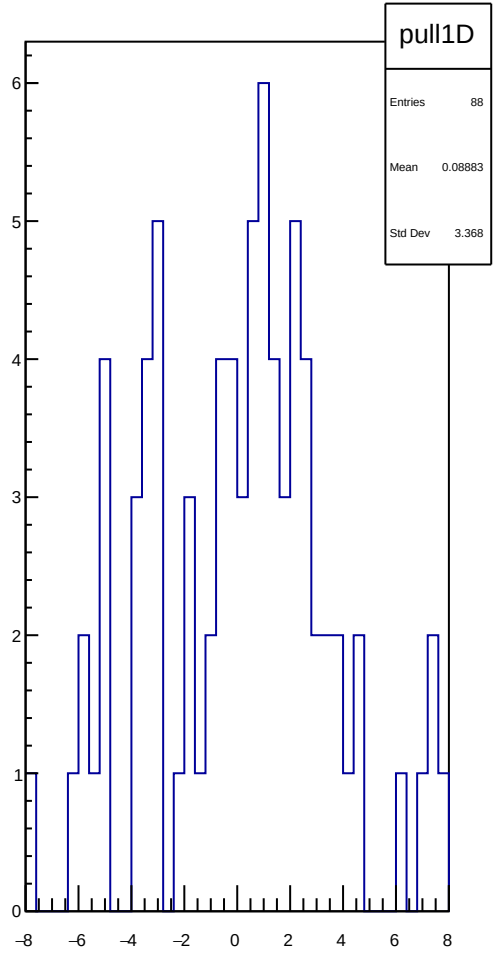

asym_bpm2i01WS_rms vs run
χ² / ndf 8763 / 87
p0 160.5 ± 0.1246
220
200
180
160
140

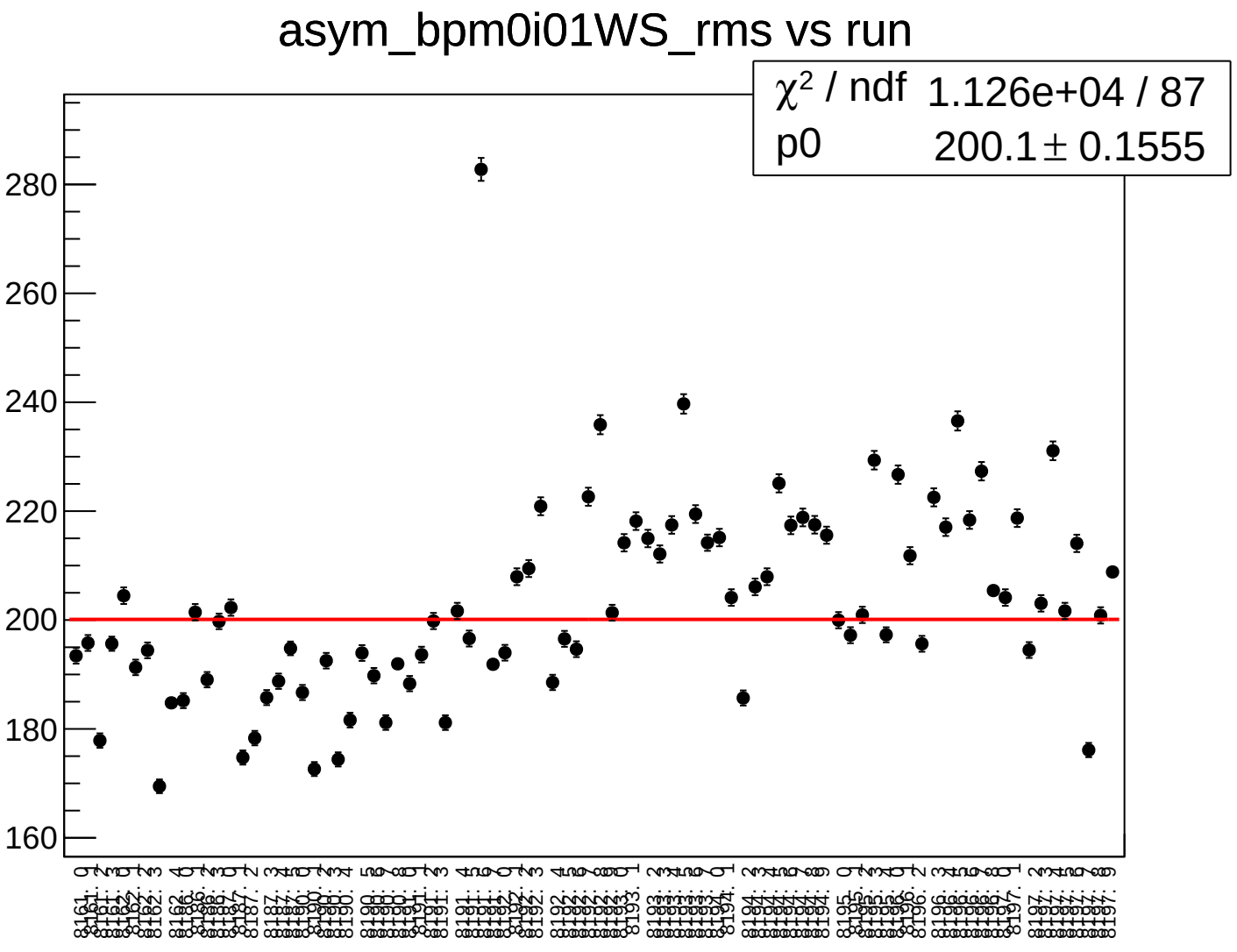

asym_bpm2i02WS_mean vs run
χ^2 / ndf 1045 / 87
p0 −9931 ± 185.8
pull
Entries 88
Mean 51.16
Std Dev 95.38

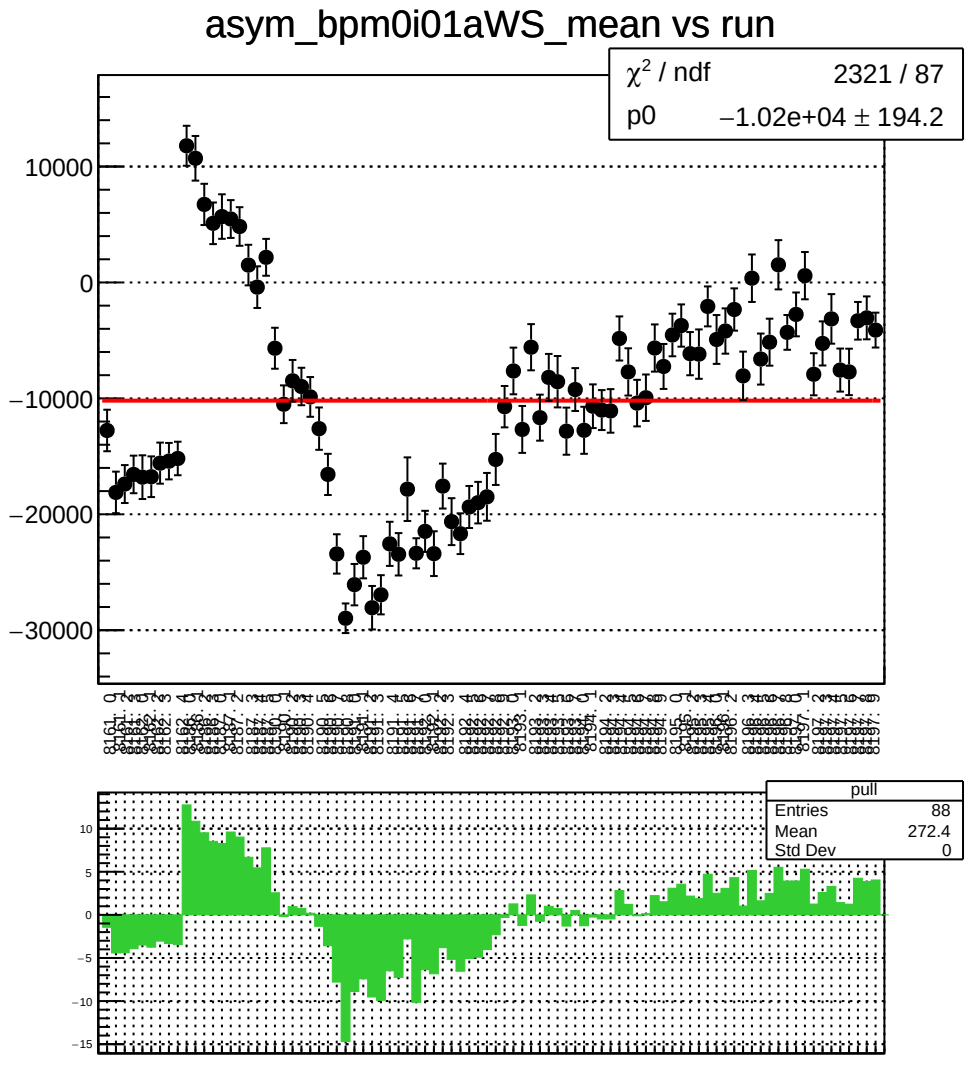

pull1D
Entries 88
Mean −0.01122
Std Dev 3.032

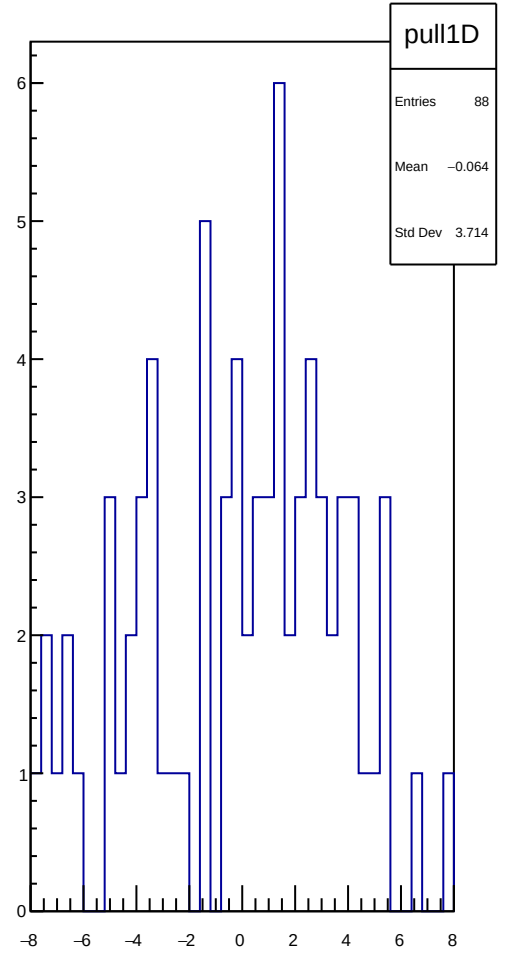

asym_bpm2i02WS_rms vs run
χ² / ndf 1.018e+04 / 87
p0 169.1 ± 0.1314
240
220
200
180
160
140

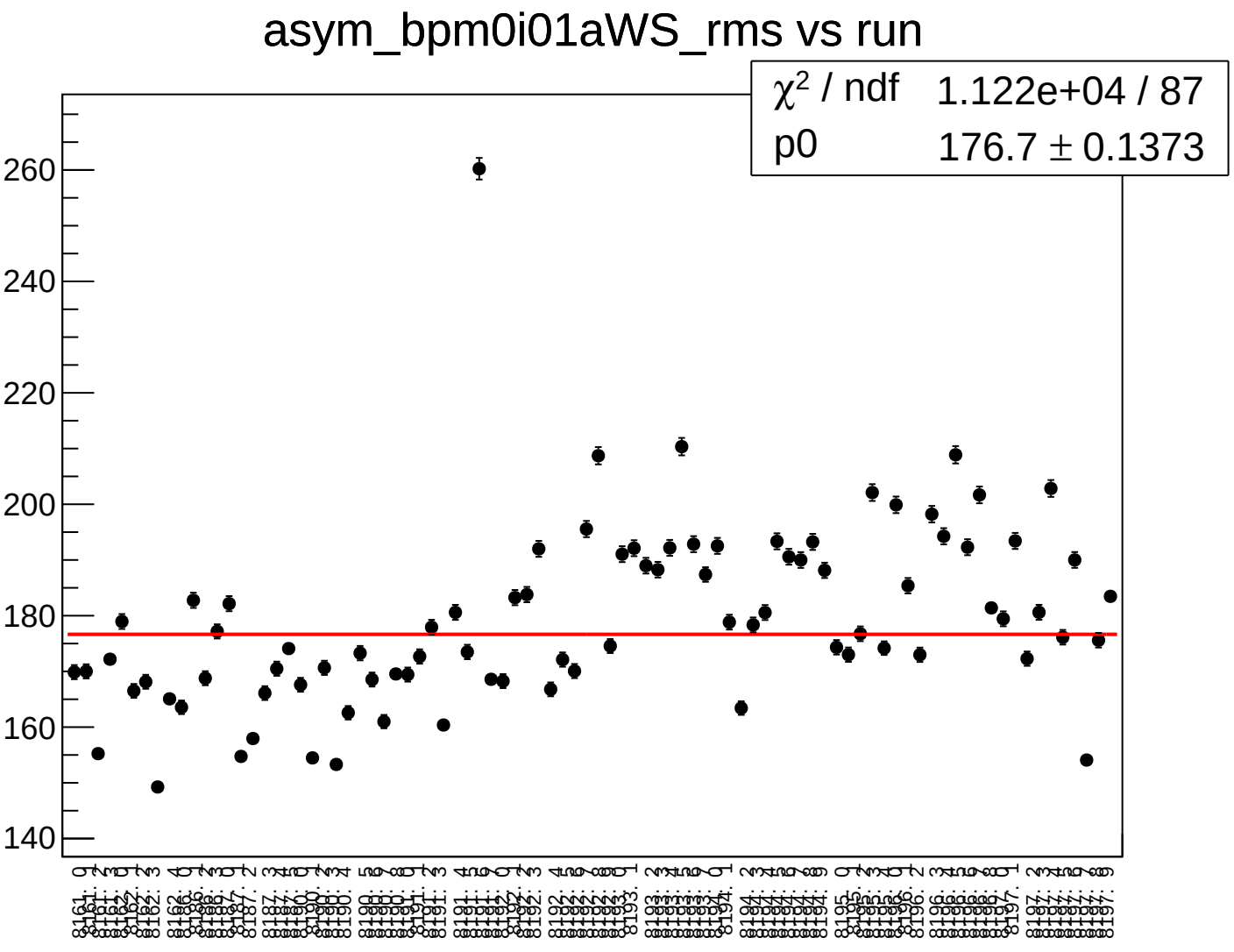

asym_bpm0i01WS_mean vs run
χ² / ndf 1602 / 87
p0 −1.069e+04 ± 219.9
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 287.5
Std Dev 0
10
5
0
−5
−10

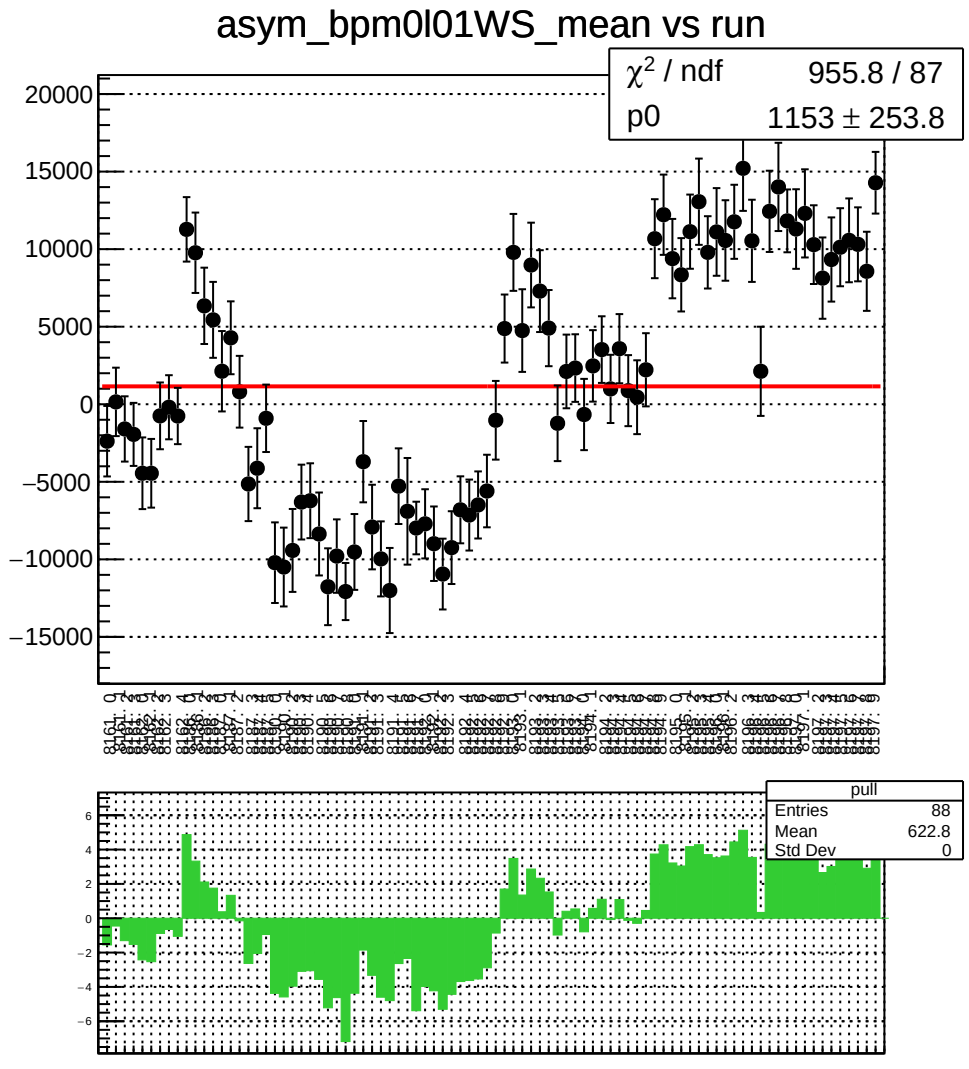

pull1D
Entries 88
Mean 0.08883
Std Dev 3.368
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

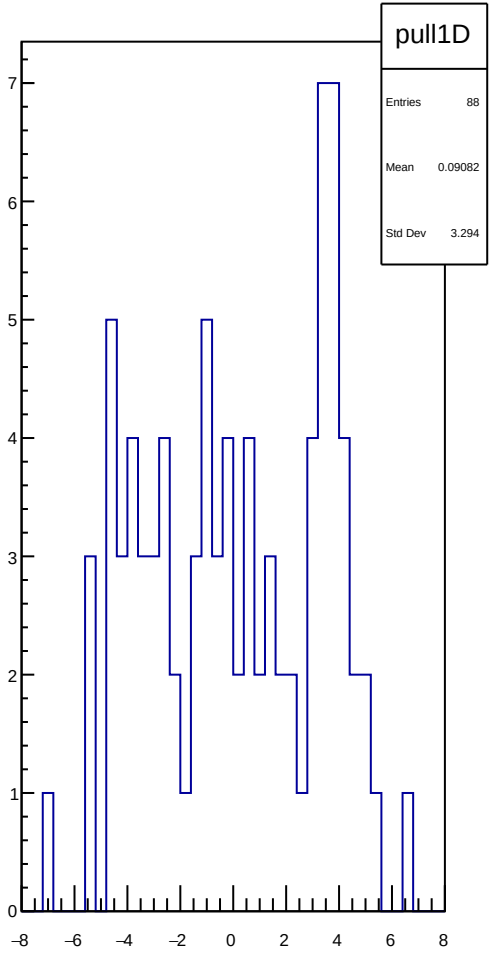

asym_bpm0i01WS_rms vs run
χ² / ndf 1.126e+04 / 87
p0 200.1 ± 0.1555
280
260
240
220
200
180
160

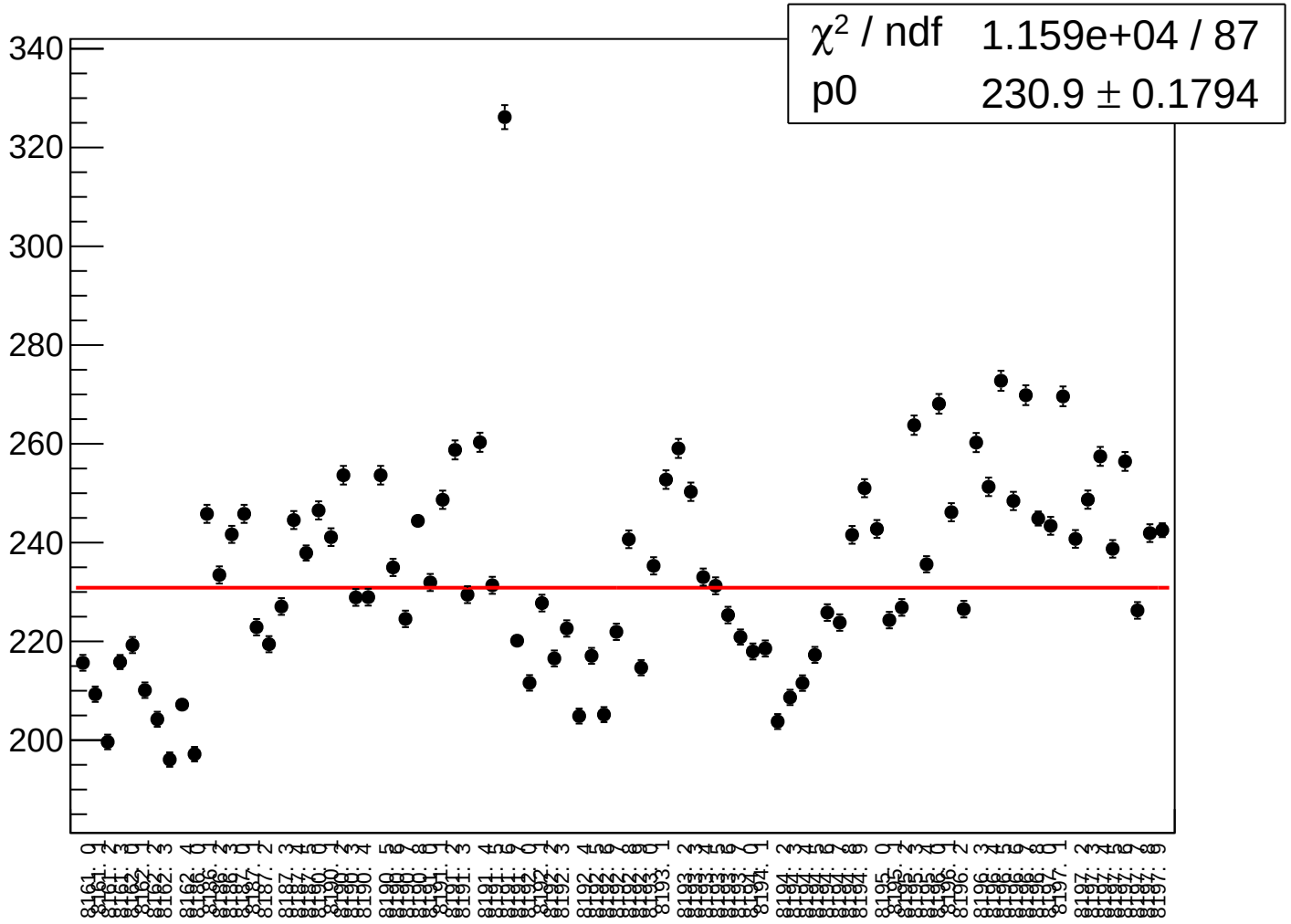

asym_bpm0i01aWS_mean vs run
χ² / ndf 2321 / 87
p0 −1.02e+04 ± 194.2
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 272.4
Std Dev 0
10
5
0
−5
−10
−15

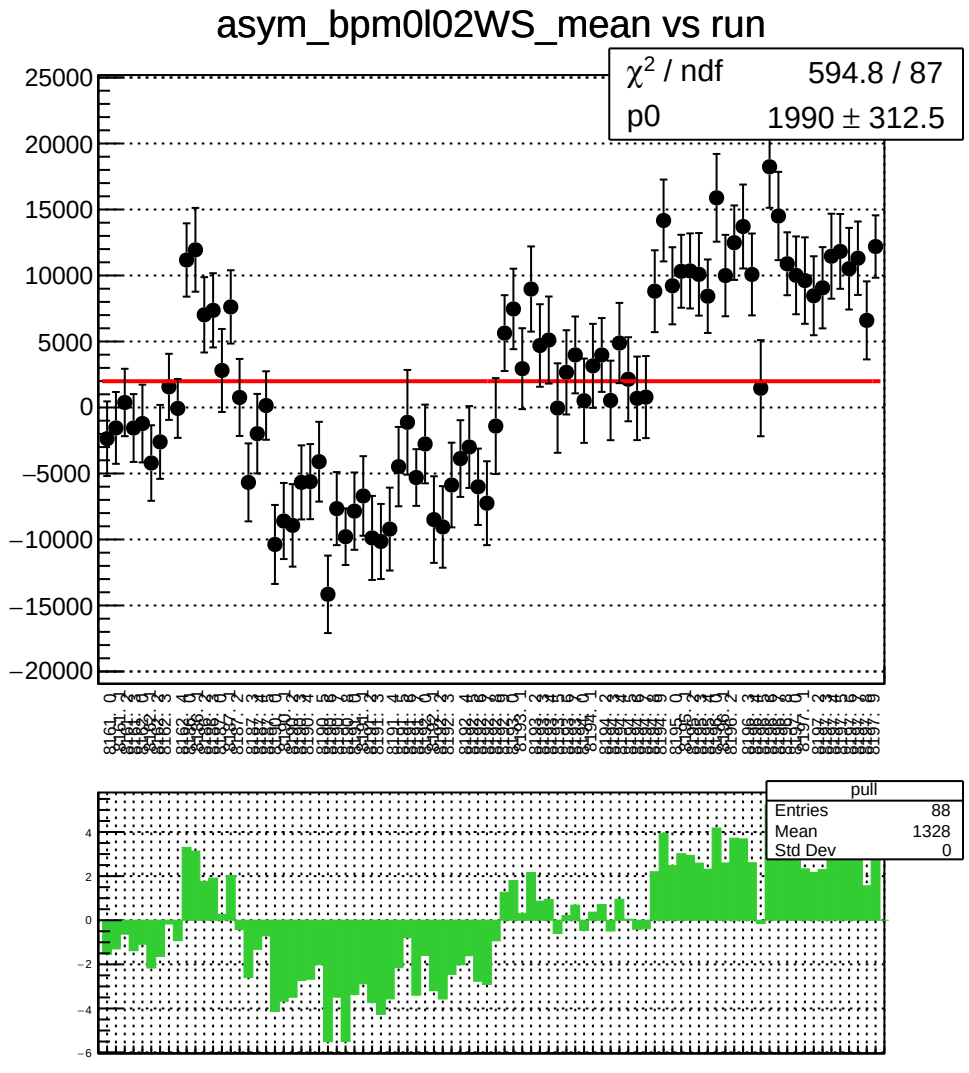

pull1D
Entries 88
Mean −0.064
Std Dev 3.714
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

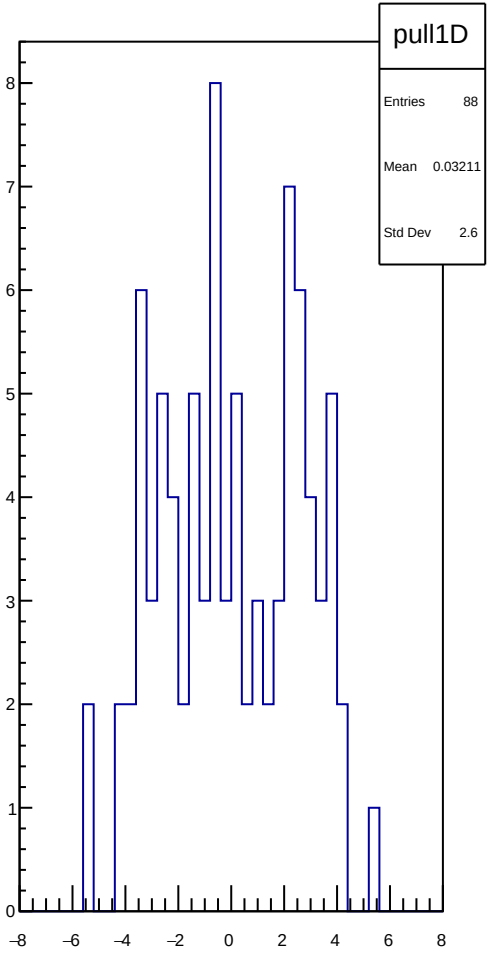

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.122e+04 / 87
p0 176.7 ± 0.1373
260
240
220
200
180
160
140

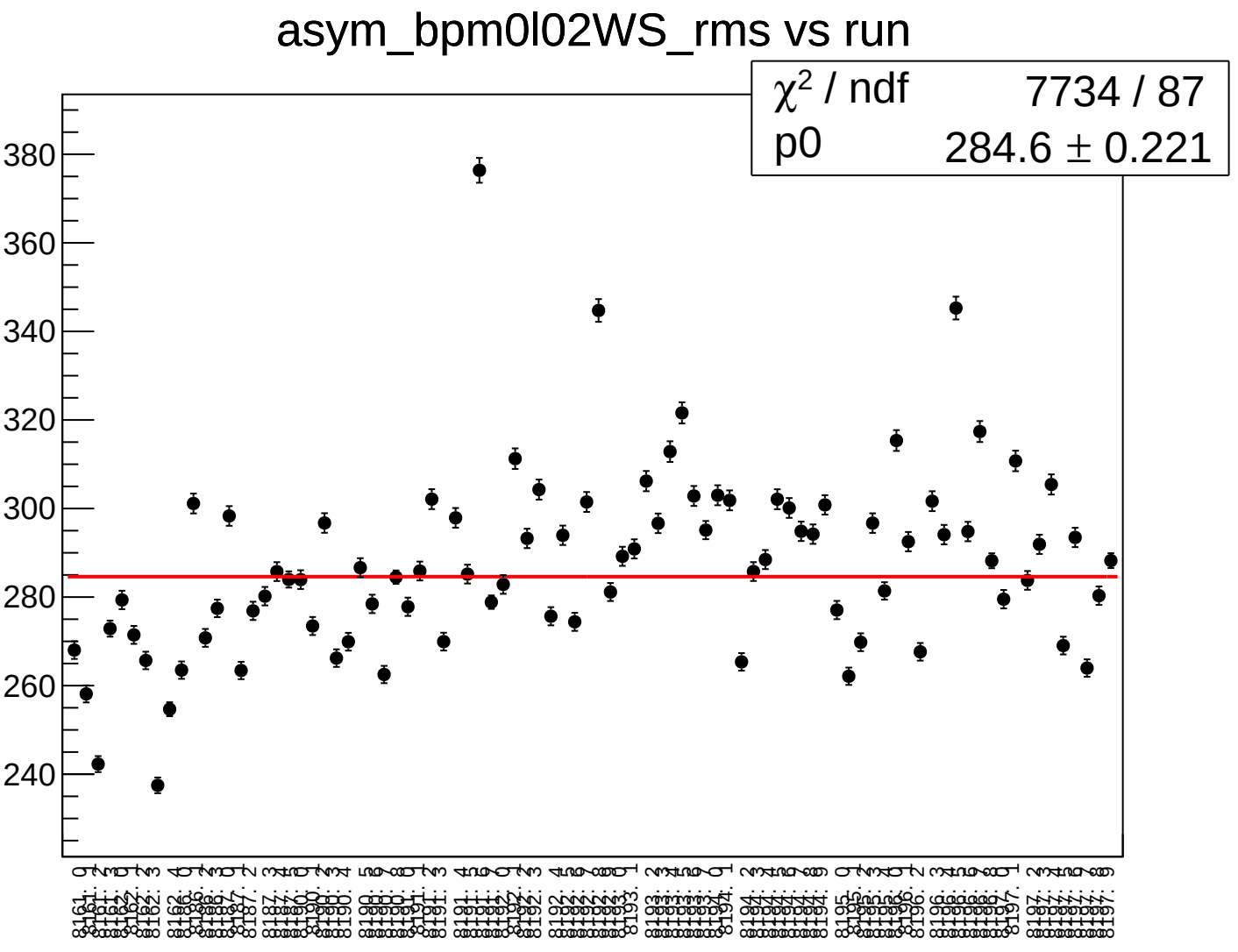

asym_bpm0l01WS_mean vs run
χ² / ndf 955.8 / 87
p0 1153 ± 253.8
pull
Entries 88
Mean 622.8
Std Dev 0

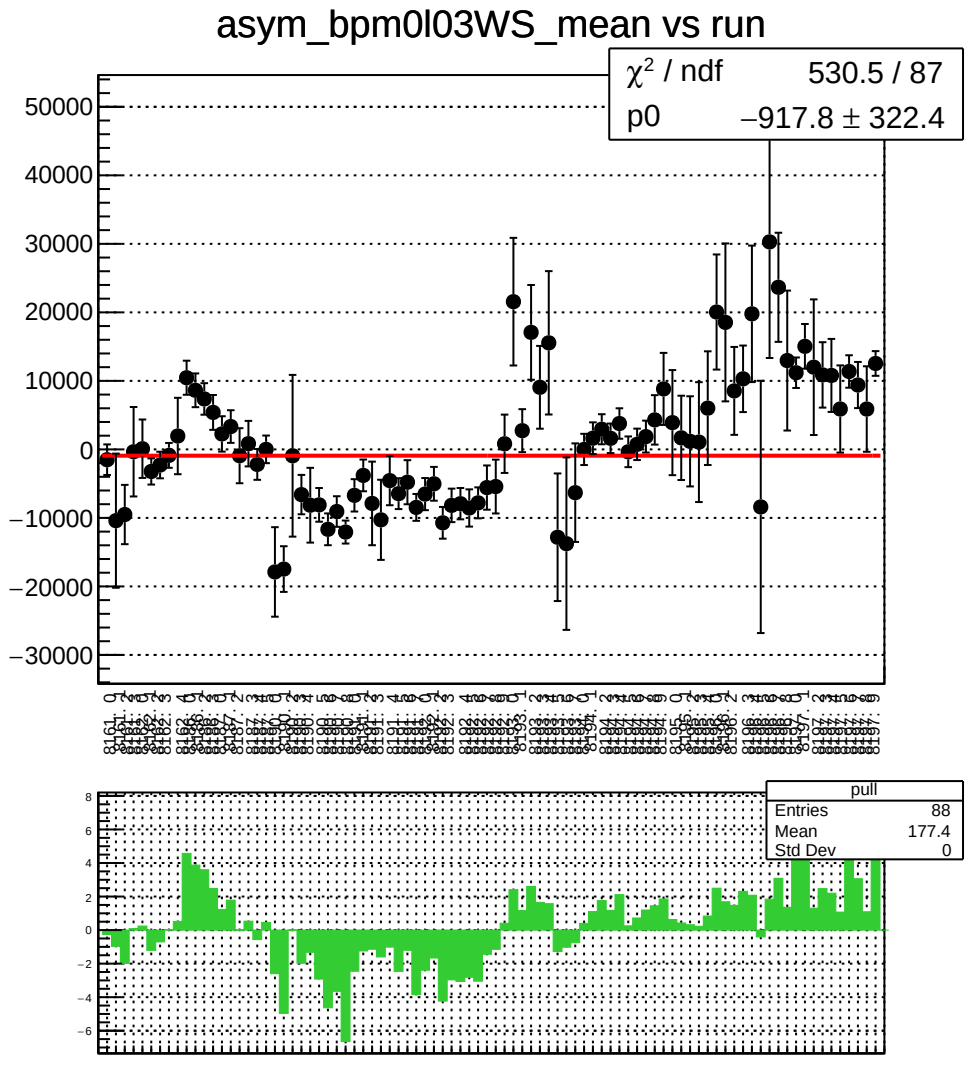

pull1D
Entries 88
Mean 0.09082
Std Dev 3.294

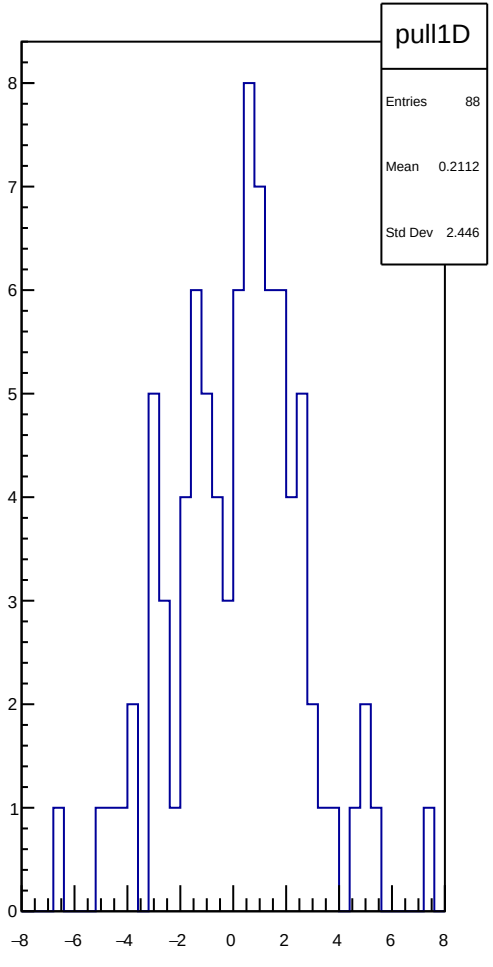

asym_bpm0l01WS_rms vs run
χ² / ndf 1.159e+04 / 87
p0 230.9 ± 0.1794
340
320
300
280
260
240
220
200

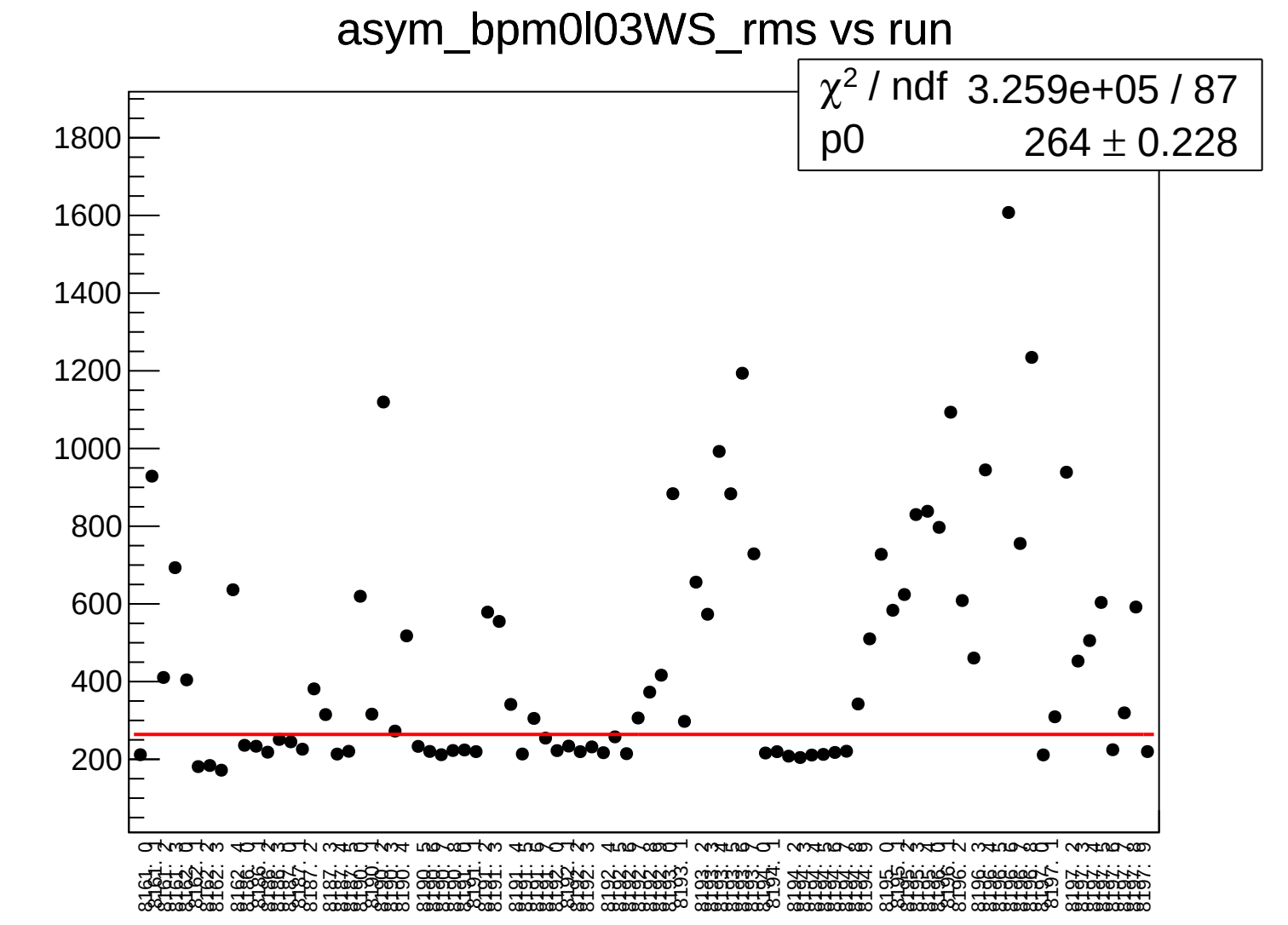

asym_bpm0l02WS_mean vs run
χ² / ndf 594.8 / 87
p0 1990 ± 312.5
pull
Entries 88
Mean 1328
Std Dev 0

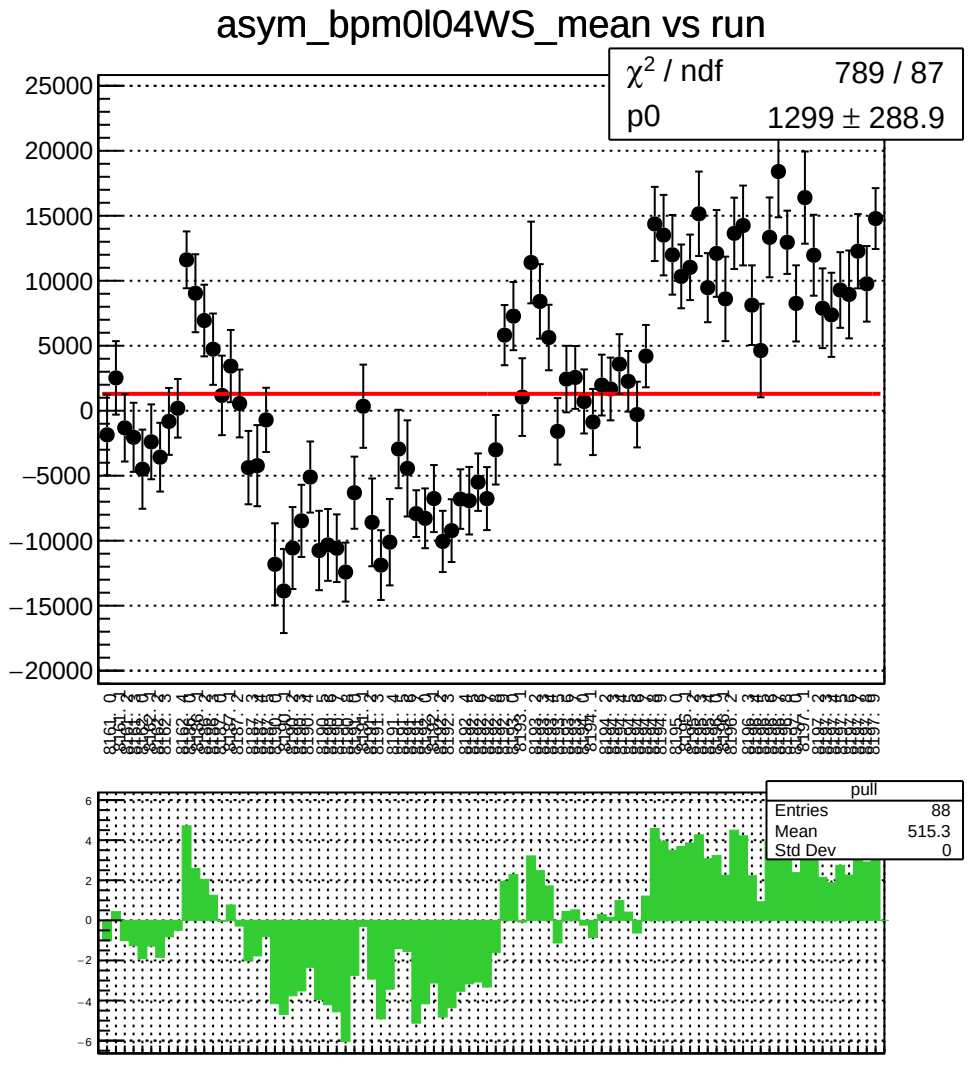

pull1D
Entries 88
Mean 0.03211
Std Dev 2.6

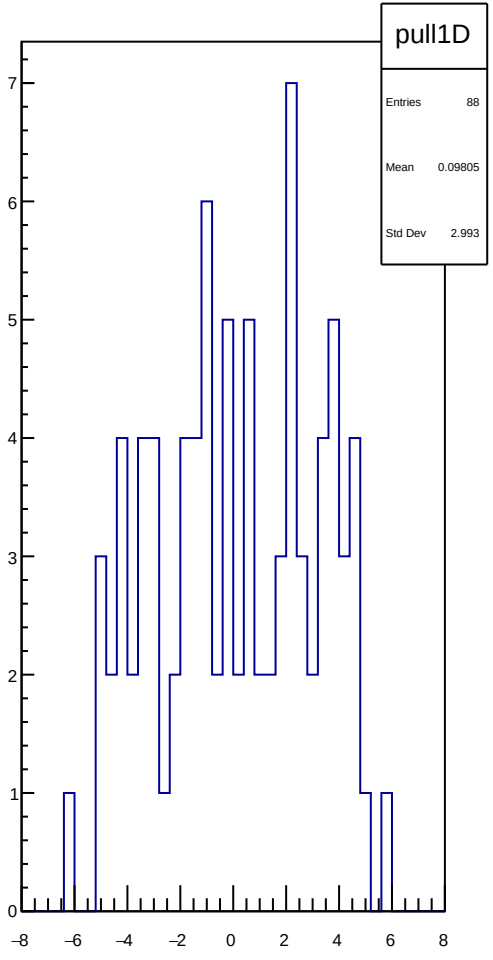

asym_bpm0l02WS_rms vs run
χ² / ndf 7734 / 87
p0 284.6 ± 0.221
380
360
340
320
300
280
260
240

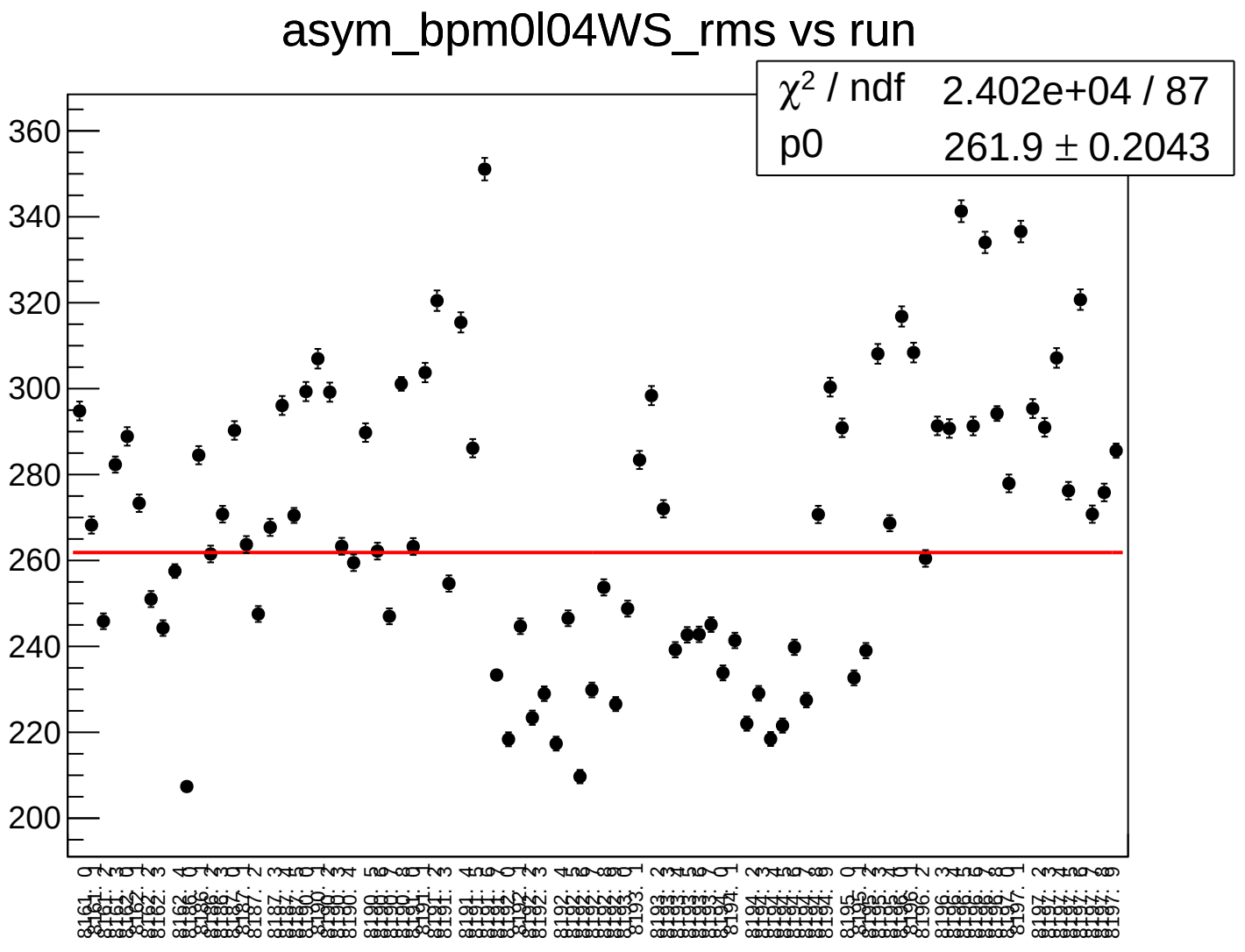

asym_bpm0l03WS_mean vs run
χ² / ndf 530.5 / 87
p0 −917.8 ± 322.4
pull
Entries 88
Mean 177.4
Std Dev 0

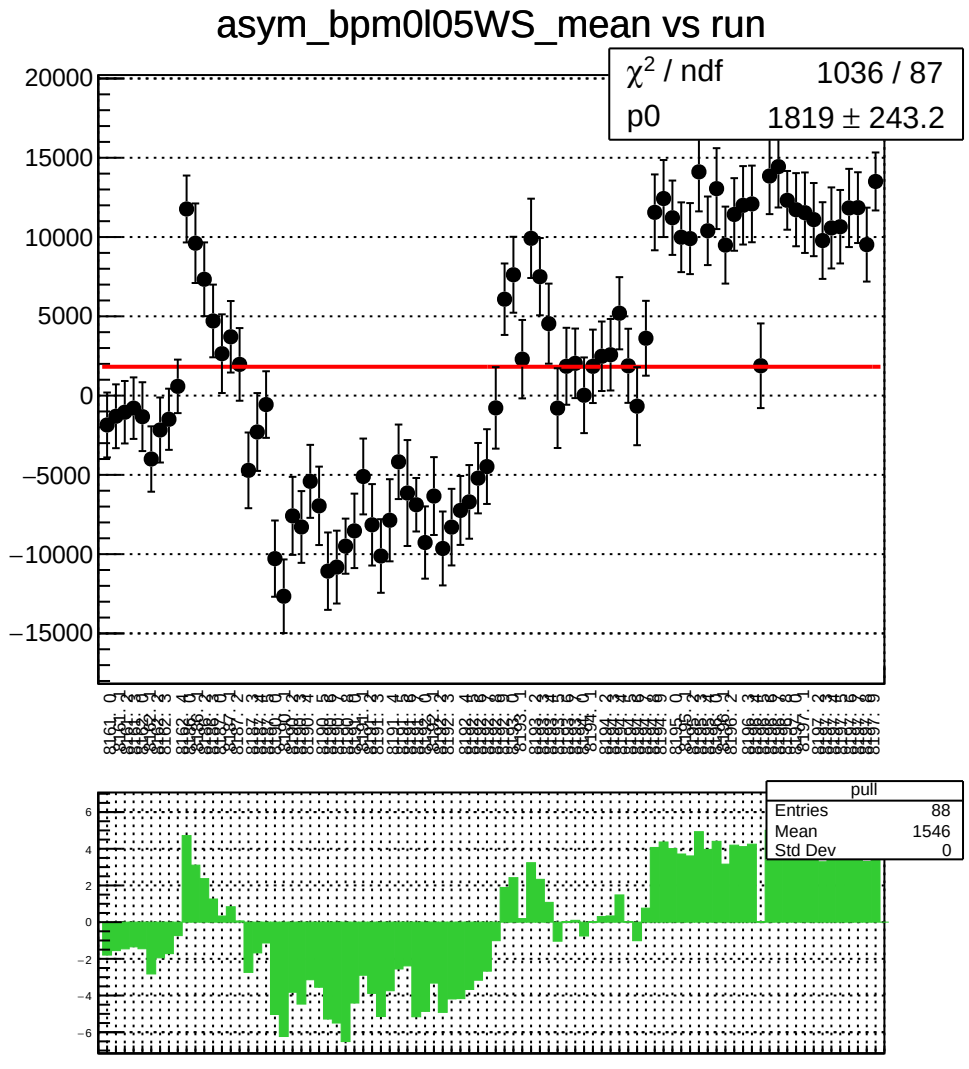

pull1D
Entries 88
Mean 0.2112
Std Dev 2.446

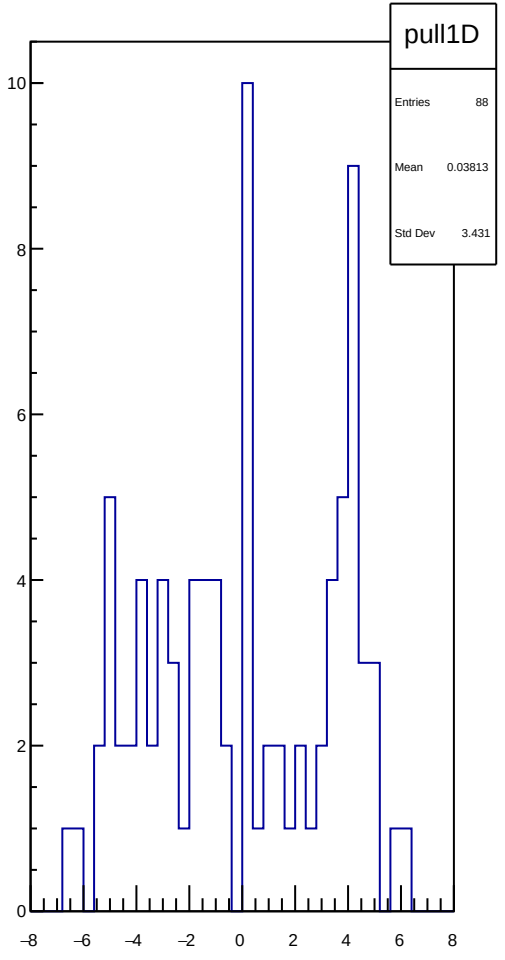

asym_bpm0l03WS_rms vs run
χ² / ndf 3.259e+05 / 87
p0 264 ± 0.228
1800
1600
1400
1200
1000
800
600
400
200

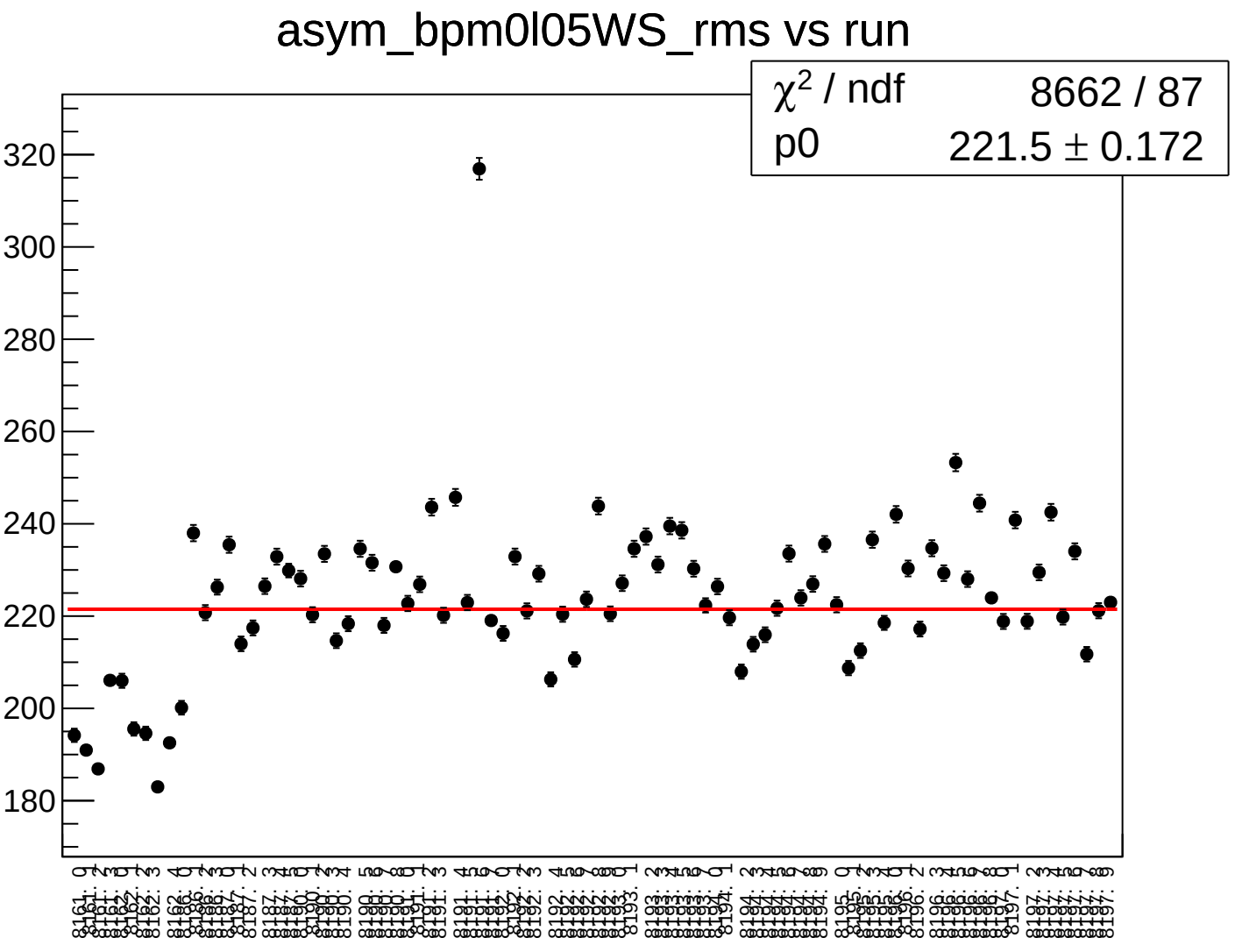

asym_bpm0l04WS_mean vs run
χ² / ndf 789 / 87
p0 1299 ± 288.9
pull
Entries 88
Mean 515.3
Std Dev 0

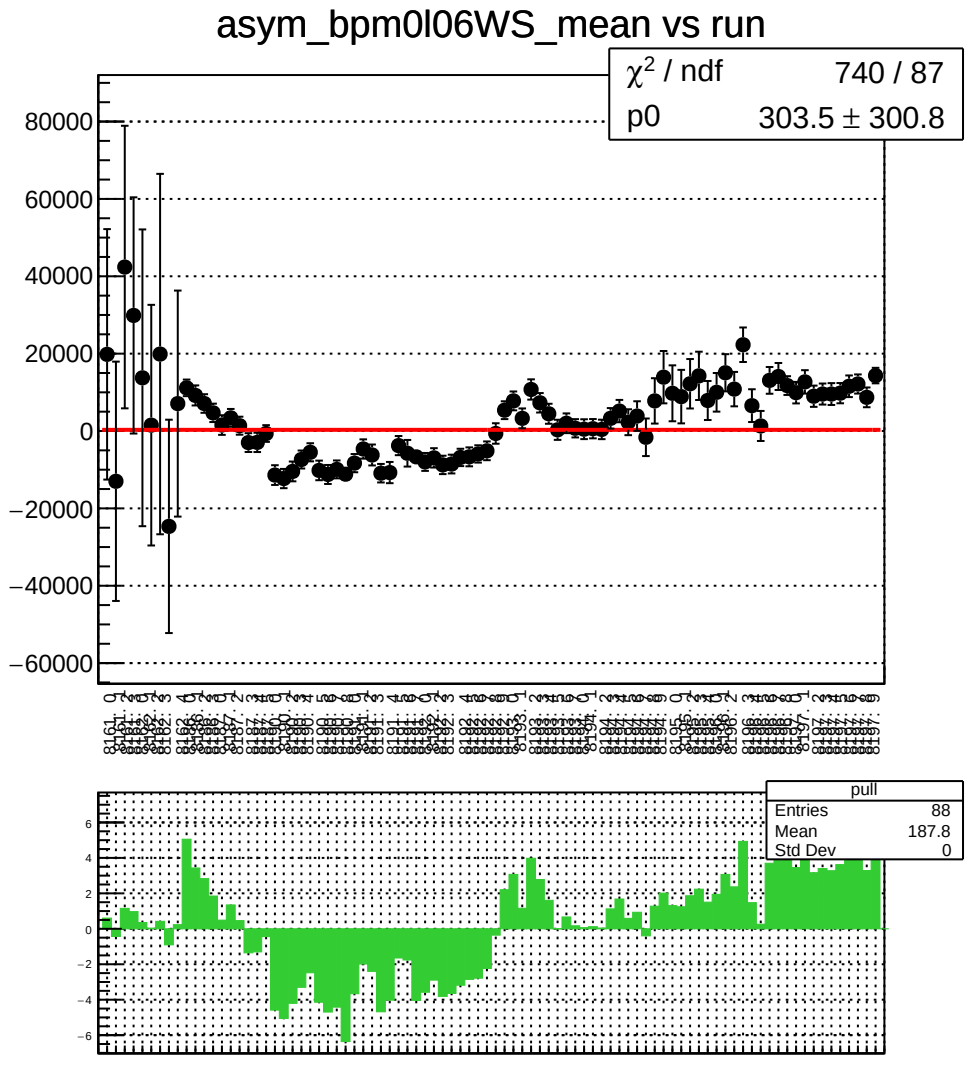

pull1D
Entries 88
Mean 0.09805
Std Dev 2.993

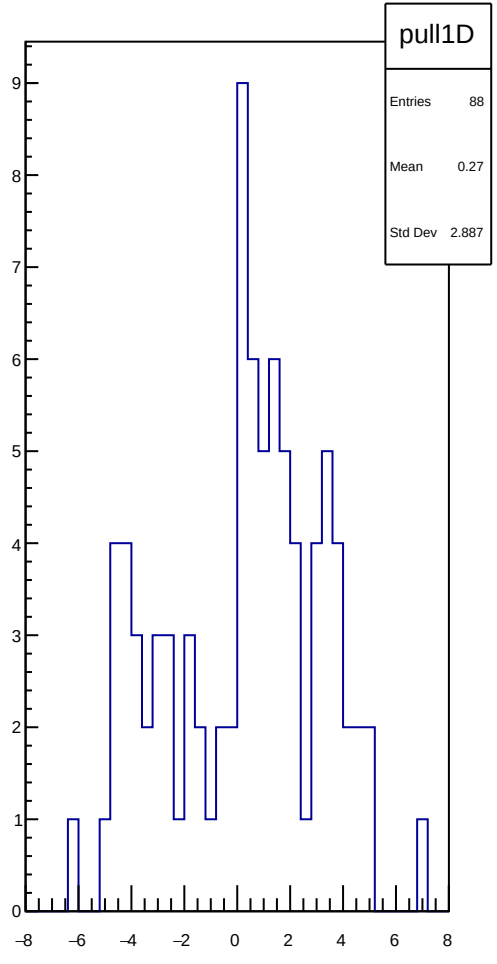

asym_bpm0l04WS_rms vs run
χ² / ndf 2.402e+04 / 87
p0 261.9 ± 0.2043
360
340
320
300
280
260
240
220
200

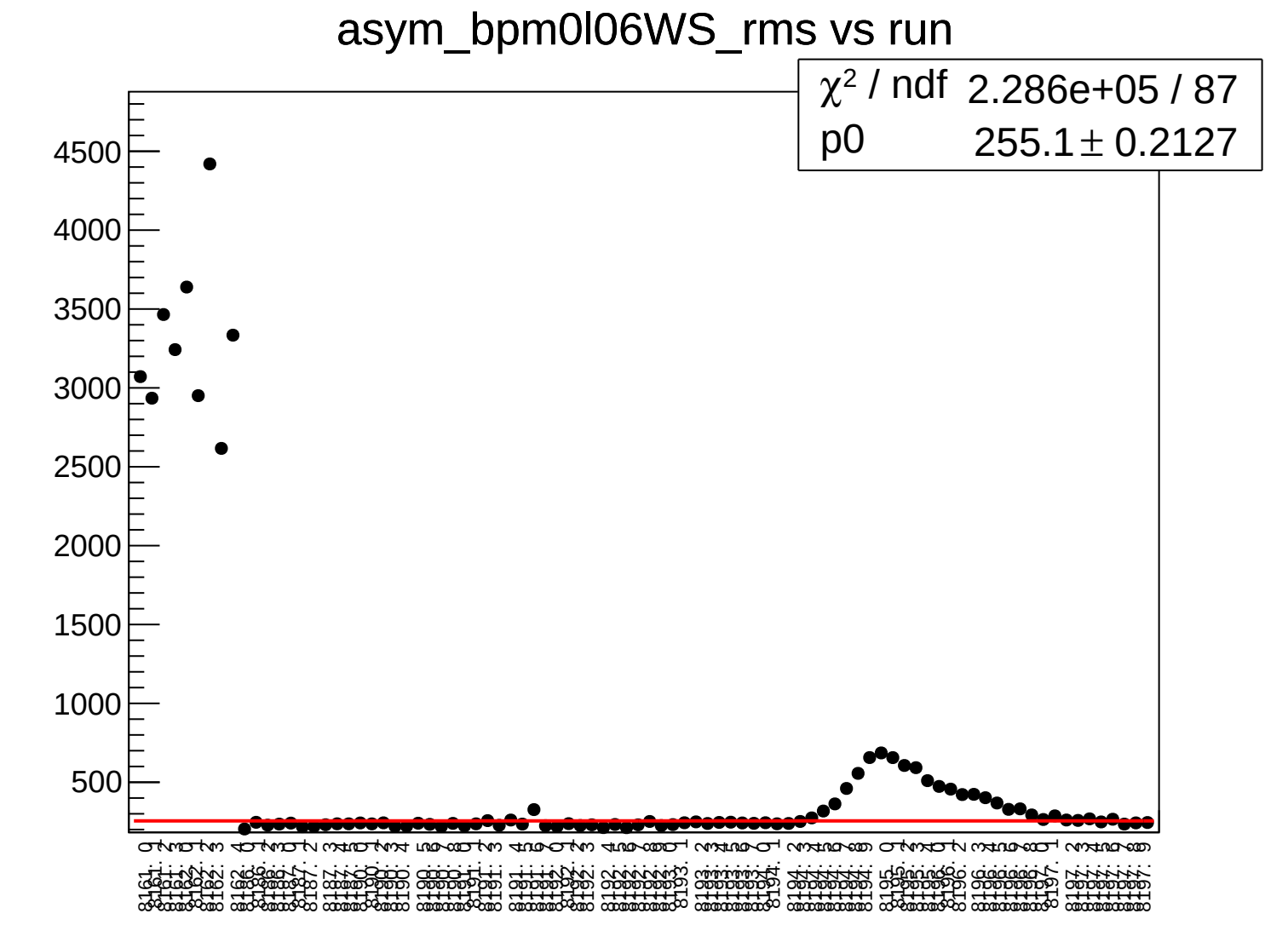

asym_bpm0l05WS_mean vs run
χ² / ndf 1036 / 87
p0 1819 ± 243.2
pull
Entries 88
Mean 1546
Std Dev 0

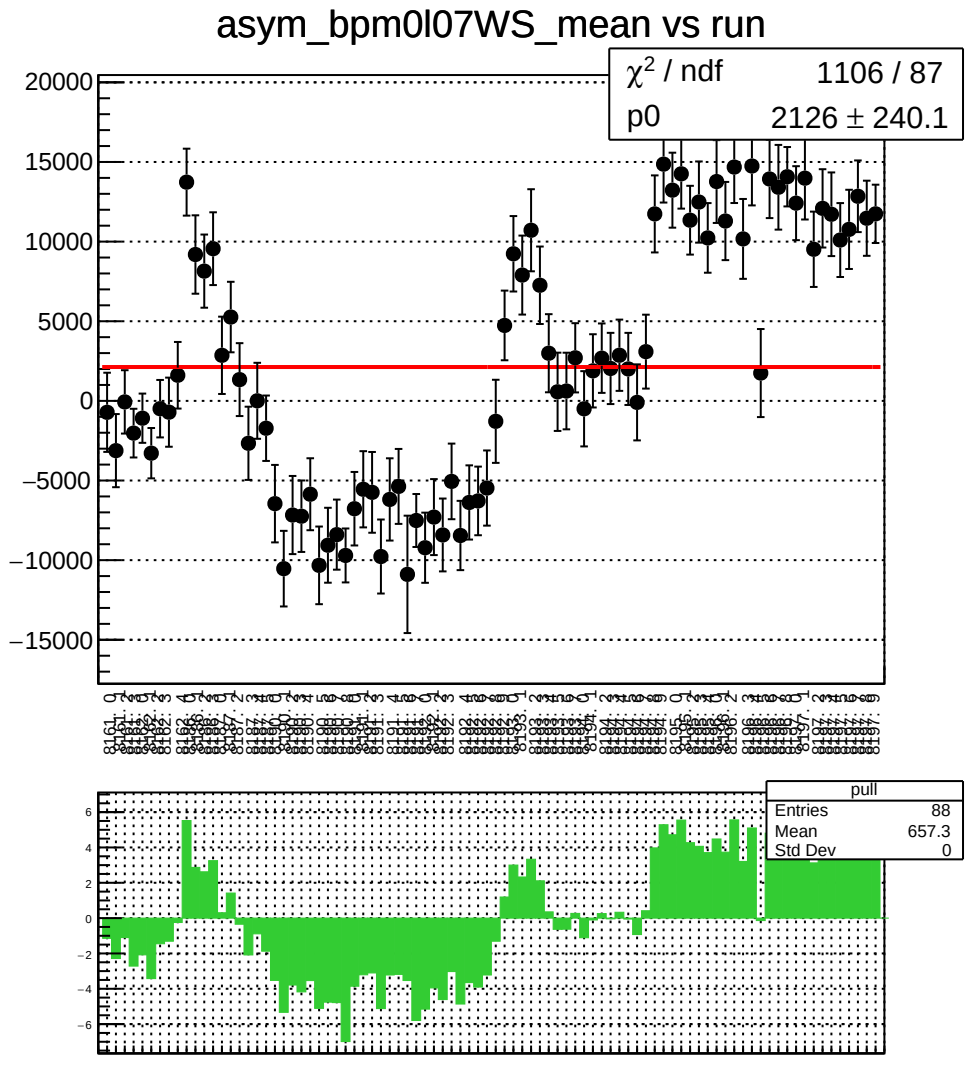

pull1D
Entries 88
Mean 0.03813
Std Dev 3.431

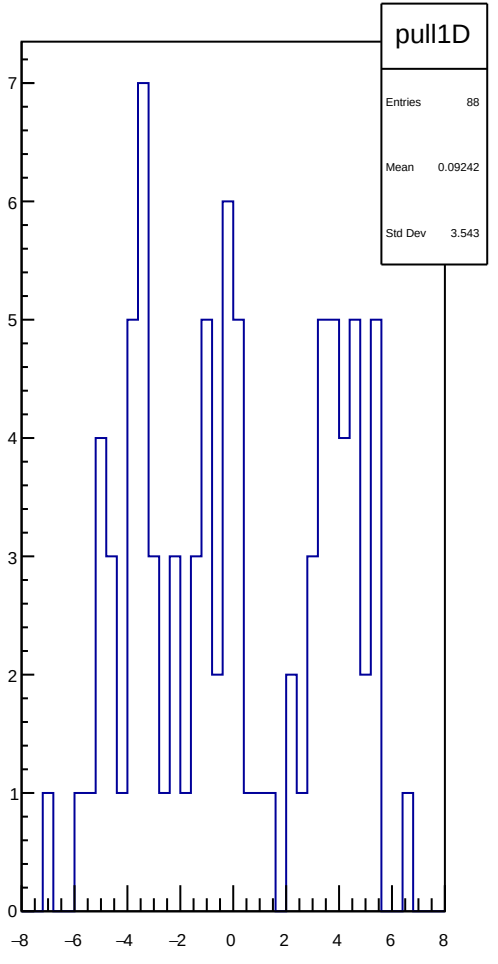

asym_bpm0l05WS_rms vs run
χ² / ndf 8662 / 87
p0 221.5 ± 0.172
320
300
280
260
240
220
200
180

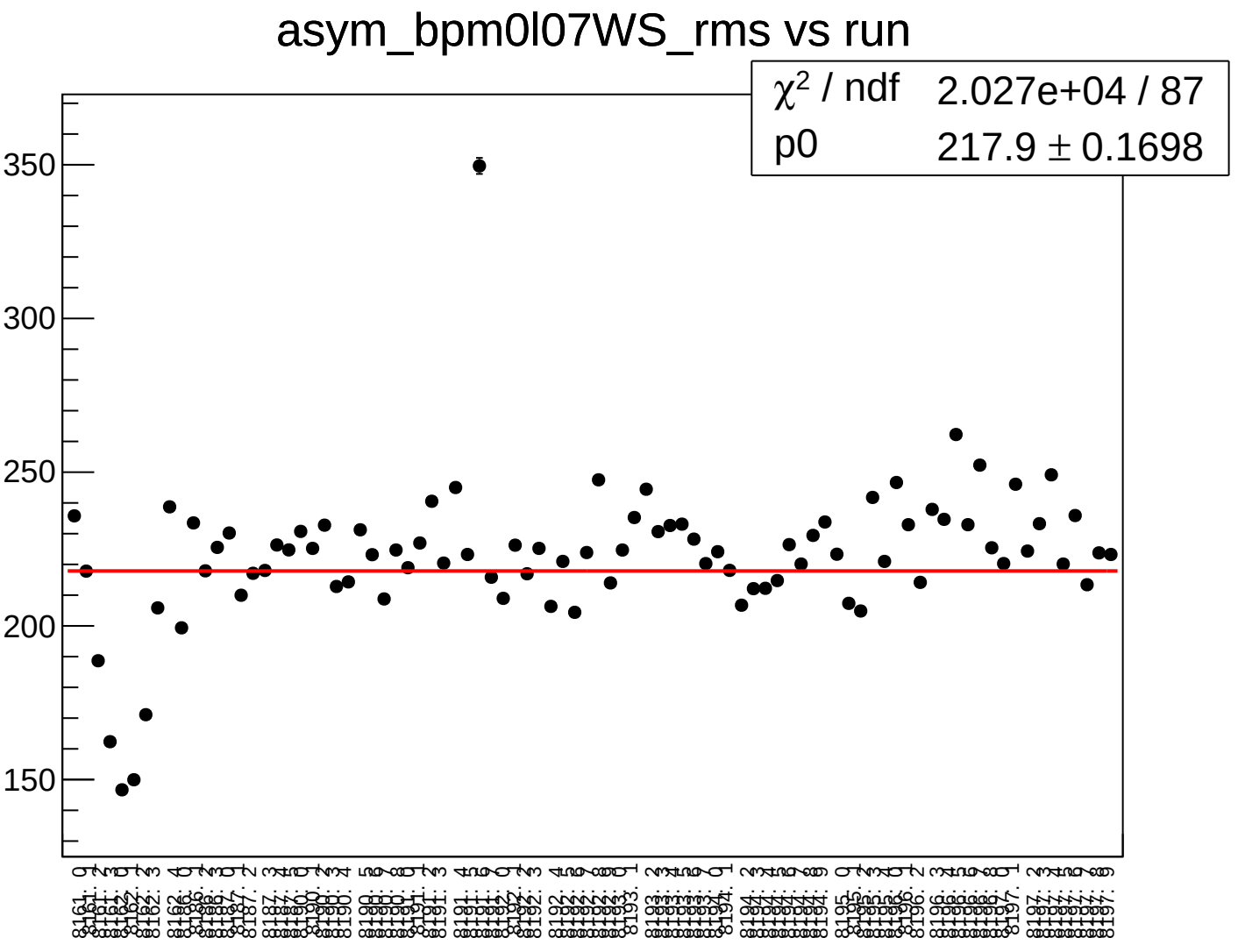

asym_bpm0l06WS_mean vs run
χ² / ndf 740 / 87
p0 303.5 ± 300.8
pull
Entries 88
Mean 187.8
Std Dev 0

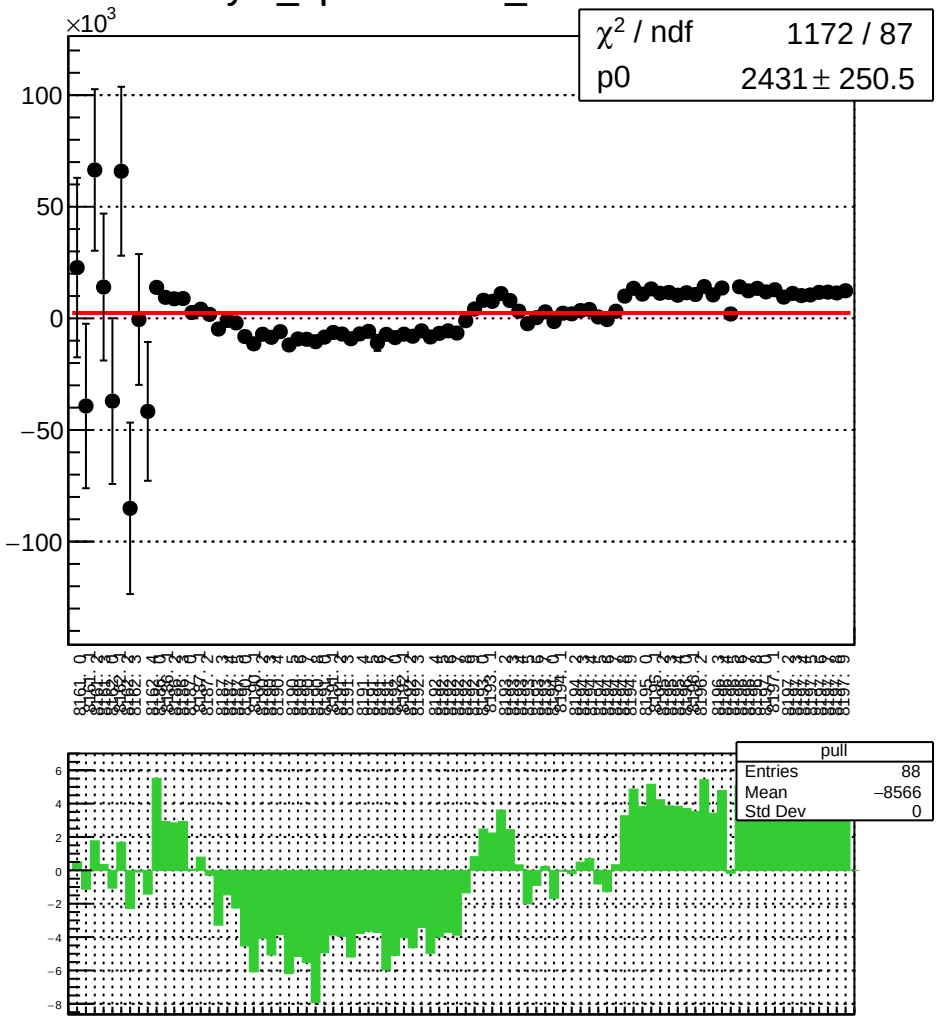

pull1D
Entries 88
Mean 0.27
Std Dev 2.887

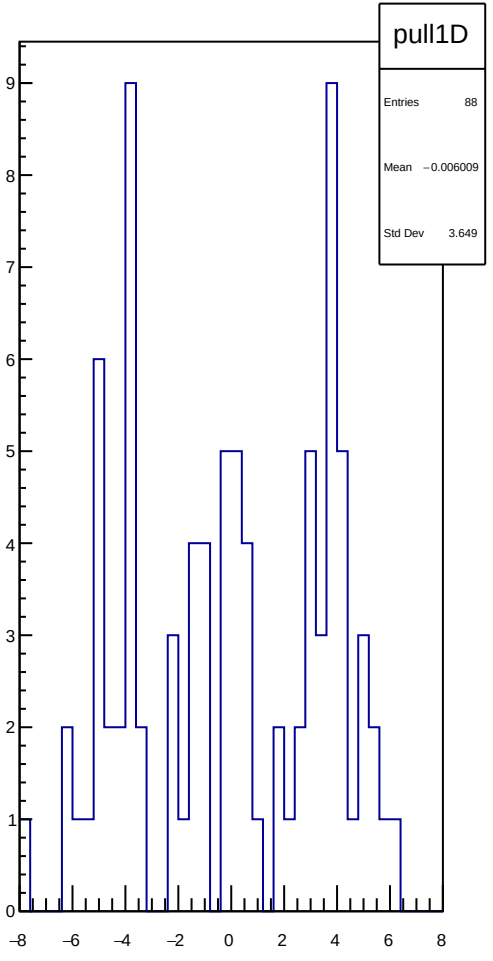

asym_bpm0l06WS_rms vs run
χ² / ndf 2.286e+05 / 87
p0 255.1 ± 0.2127
4500
4000
3500
3000
2500
2000
1500
1000
500

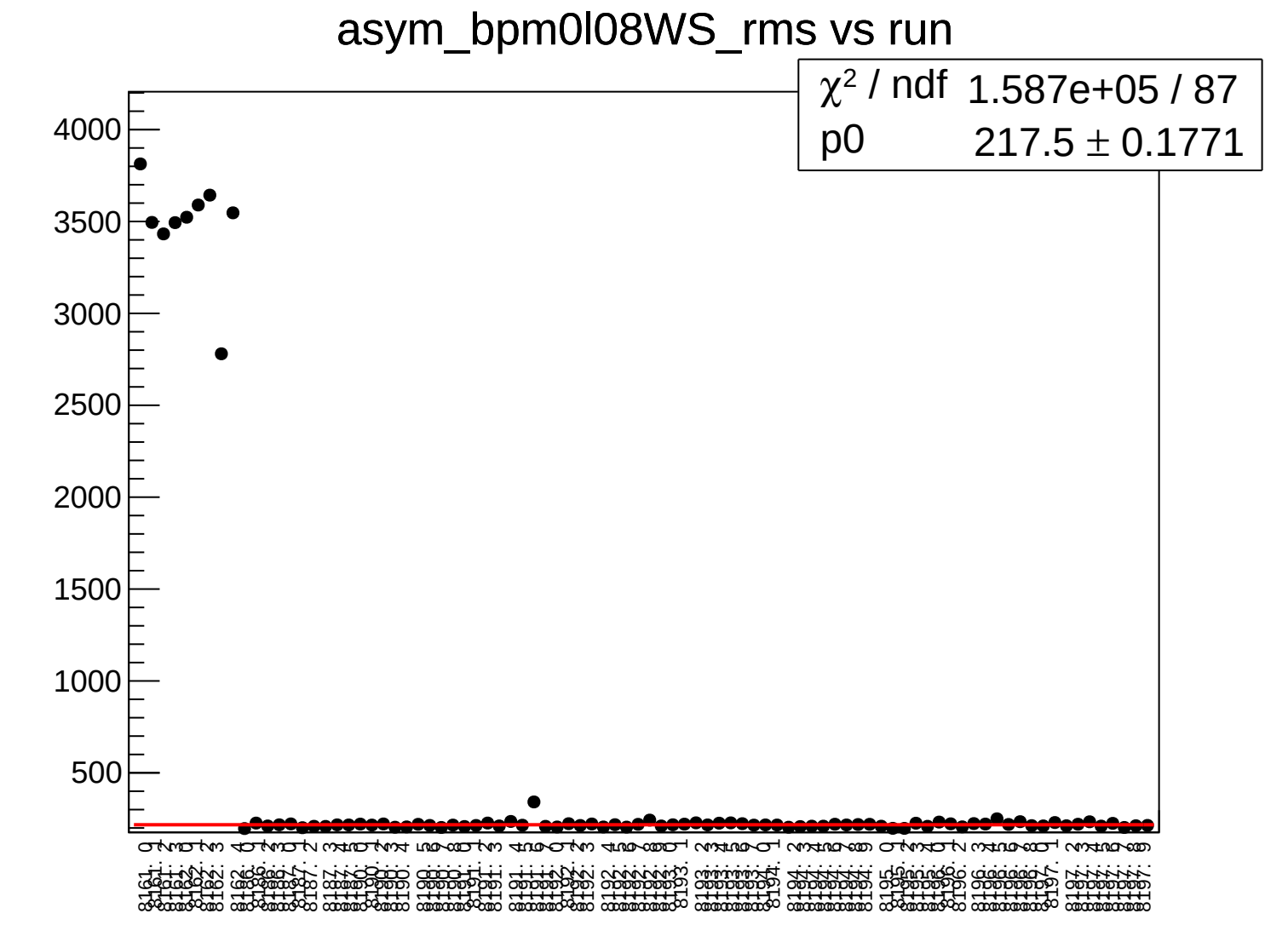

asym_bpm0l07WS_mean vs run
χ² / ndf 1106 / 87
p0 2126 ± 240.1
pull
Entries 88
Mean 657.3
Std Dev 0

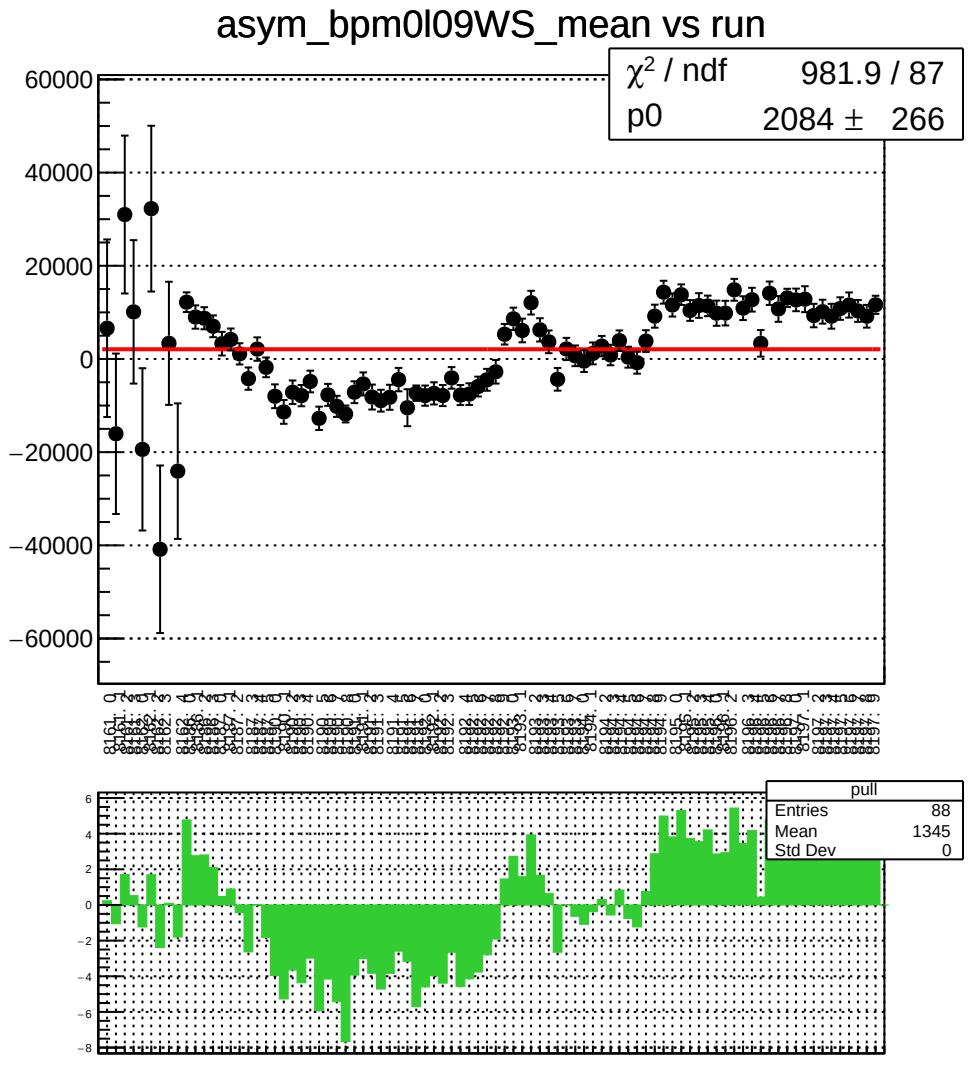

pull1D
Entries 88
Mean 0.09242
Std Dev 3.543

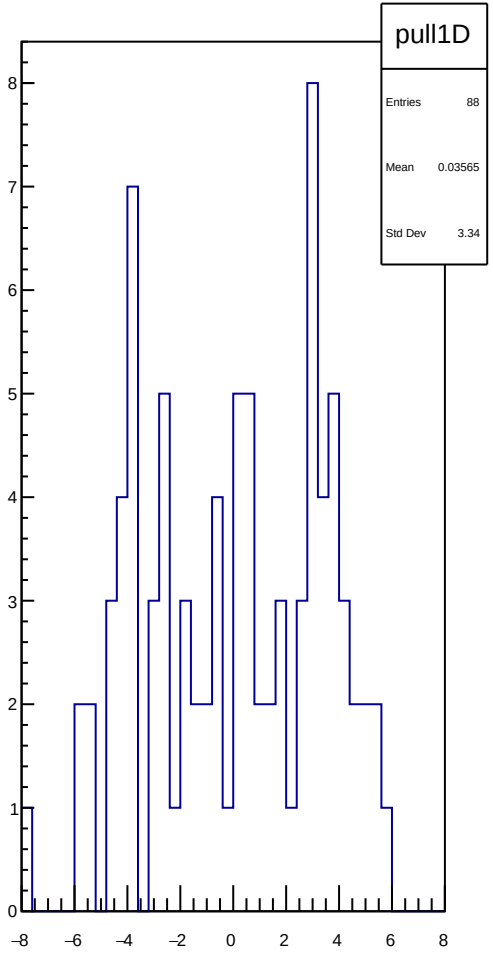

asym_bpm0l07WS_rms vs run
χ² / ndf 2.027e+04 / 87
p0 217.9 ± 0.1698
350
300
250
200
150

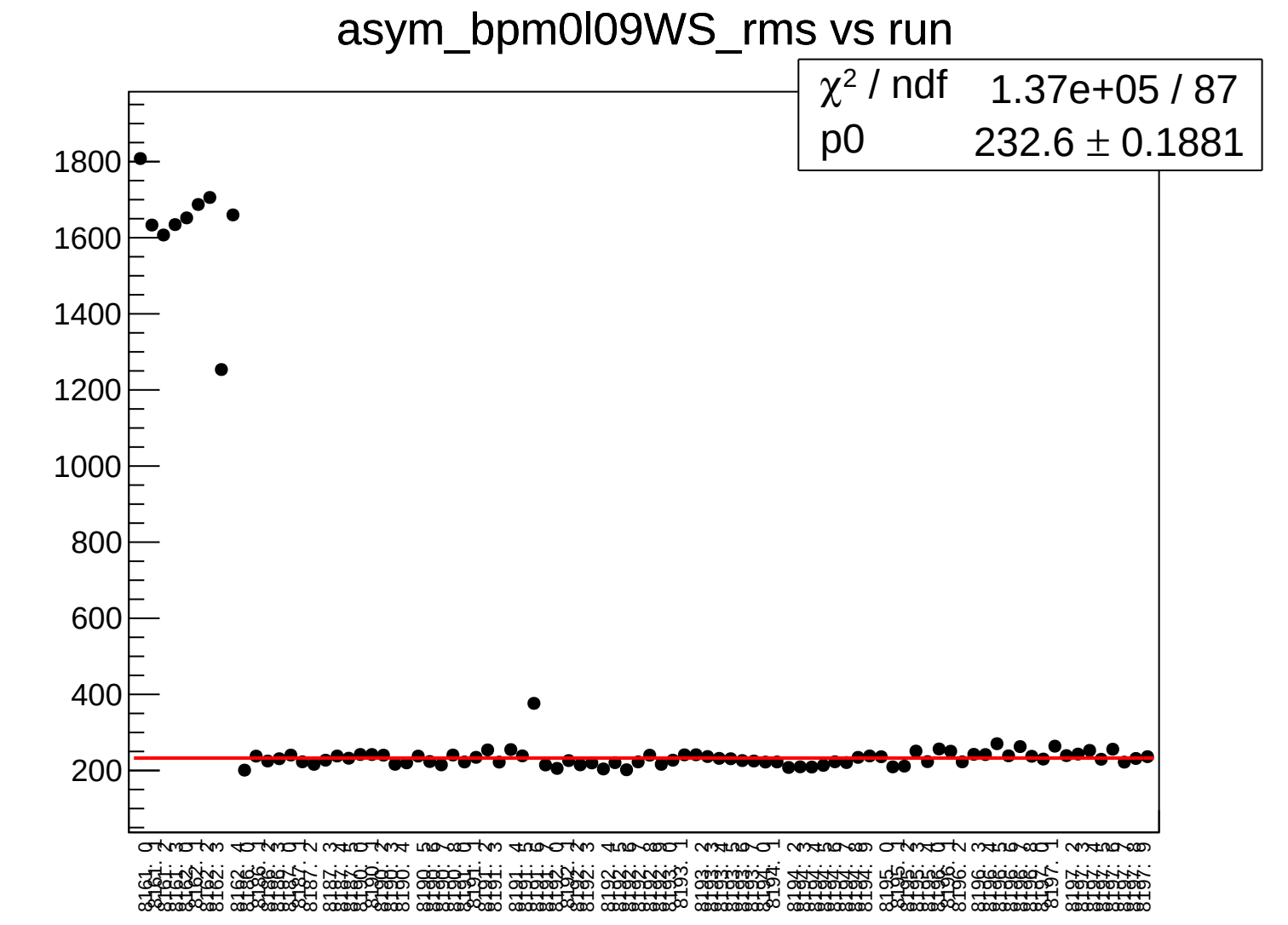

asym_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 1172 / 87
p0 2431 ± 250.5
100
50
0
−50
−100
pull
Entries 88
Mean −8566
Std Dev 0
6
4
2
0
−2
−4
−6
−8

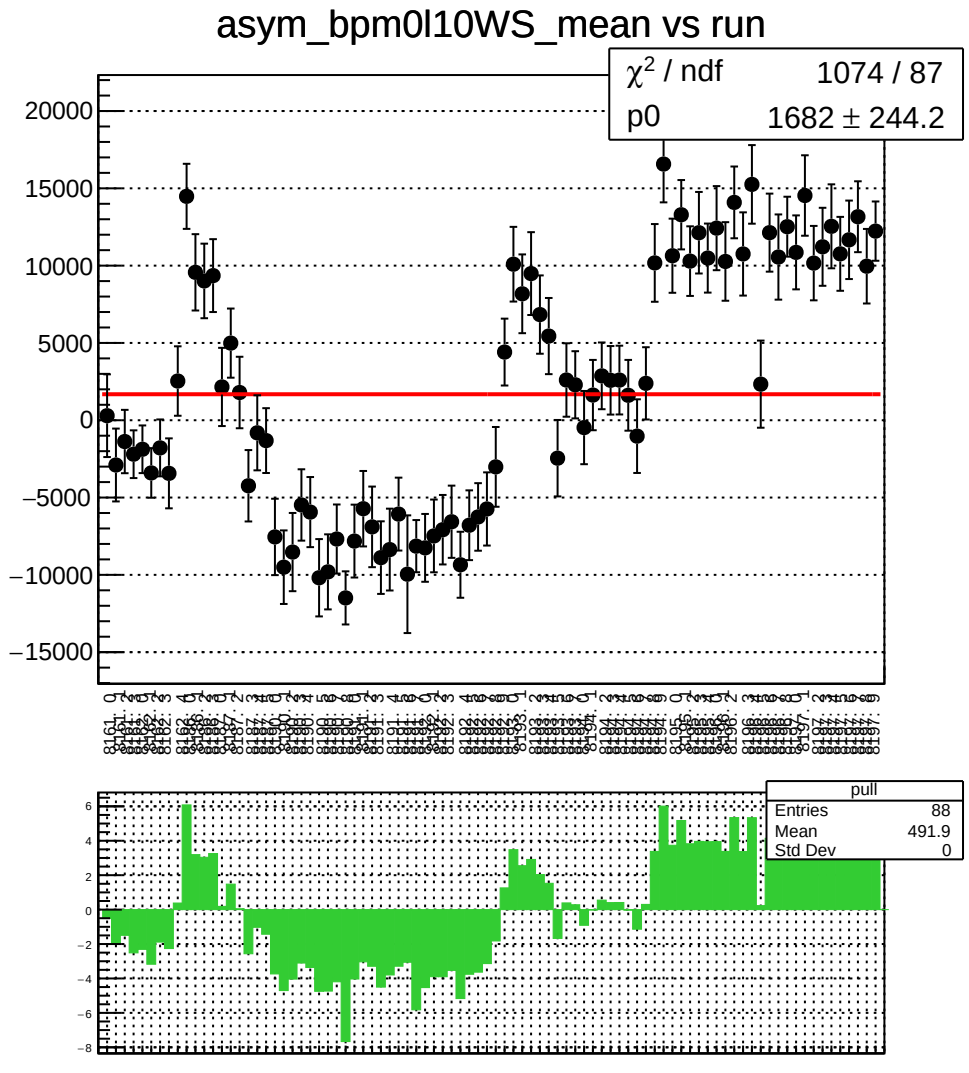

pull1D
Entries 88
Mean −0.006009
Std Dev 3.649
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

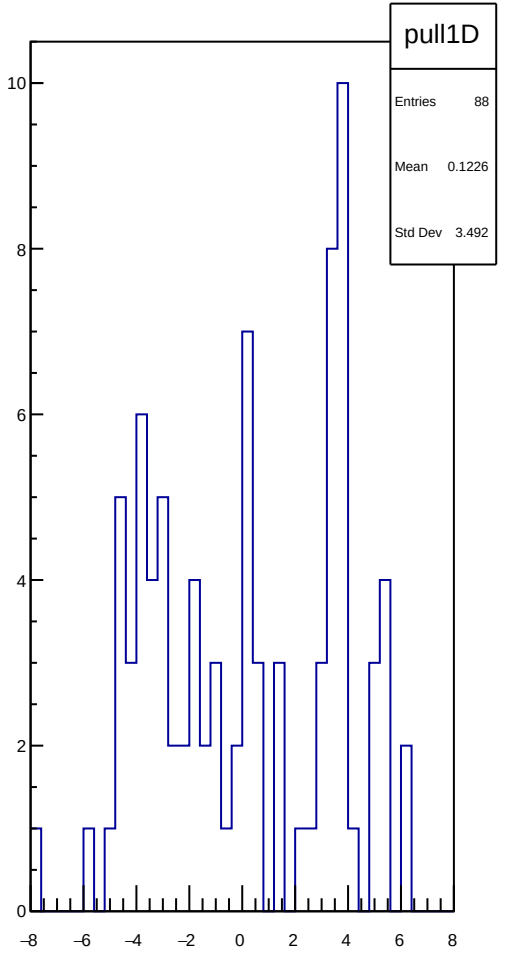

asym_bpm0l08WS_rms vs run
χ² / ndf 1.587e+05 / 87
p0 217.5 ± 0.1771
4000
3500
3000
2500
2000
1500
1000
500

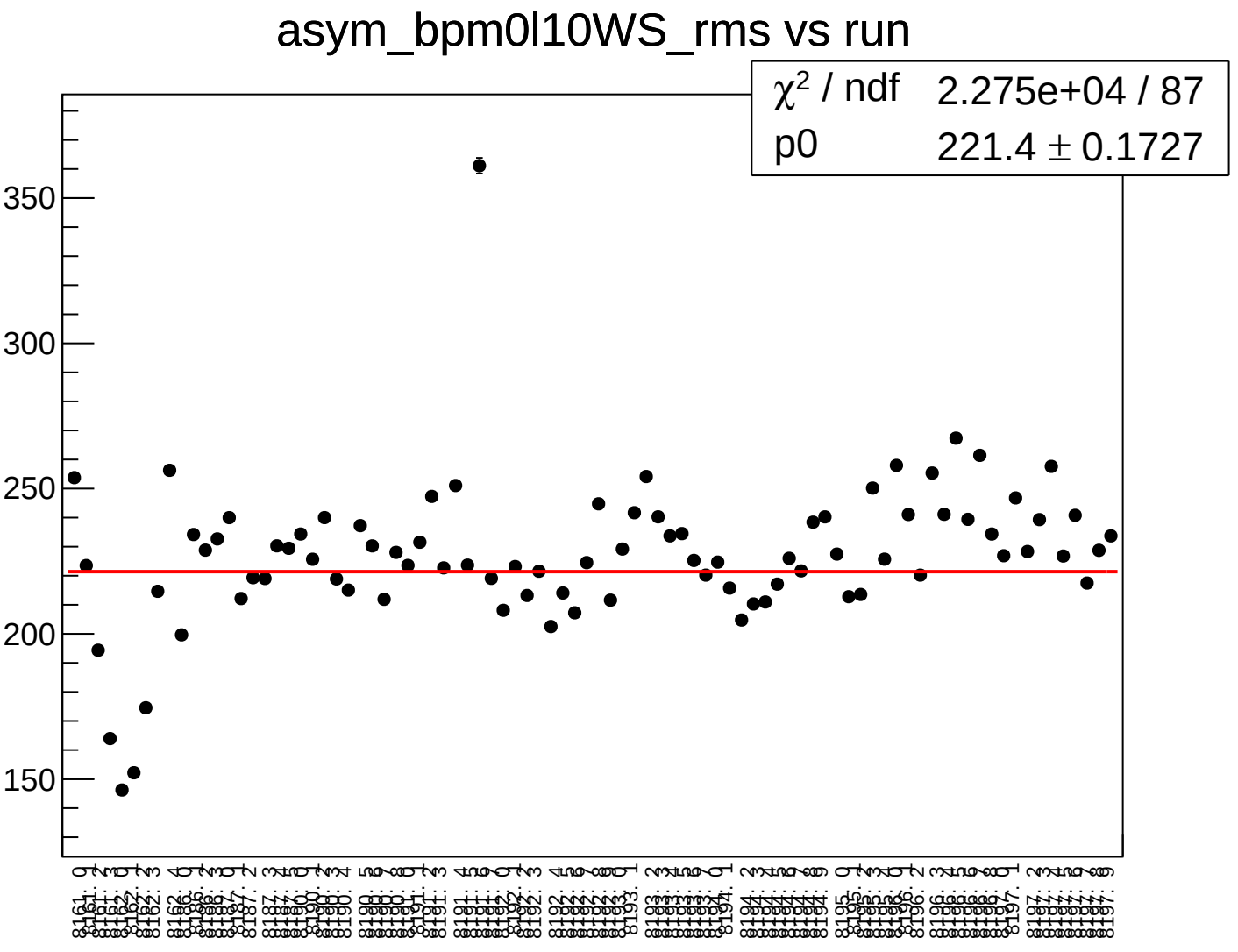

asym_bpm0l09WS_mean vs run
χ² / ndf 981.9 / 87
p0 2084 ± 266
pull
Entries 88
Mean 1345
Std Dev 0

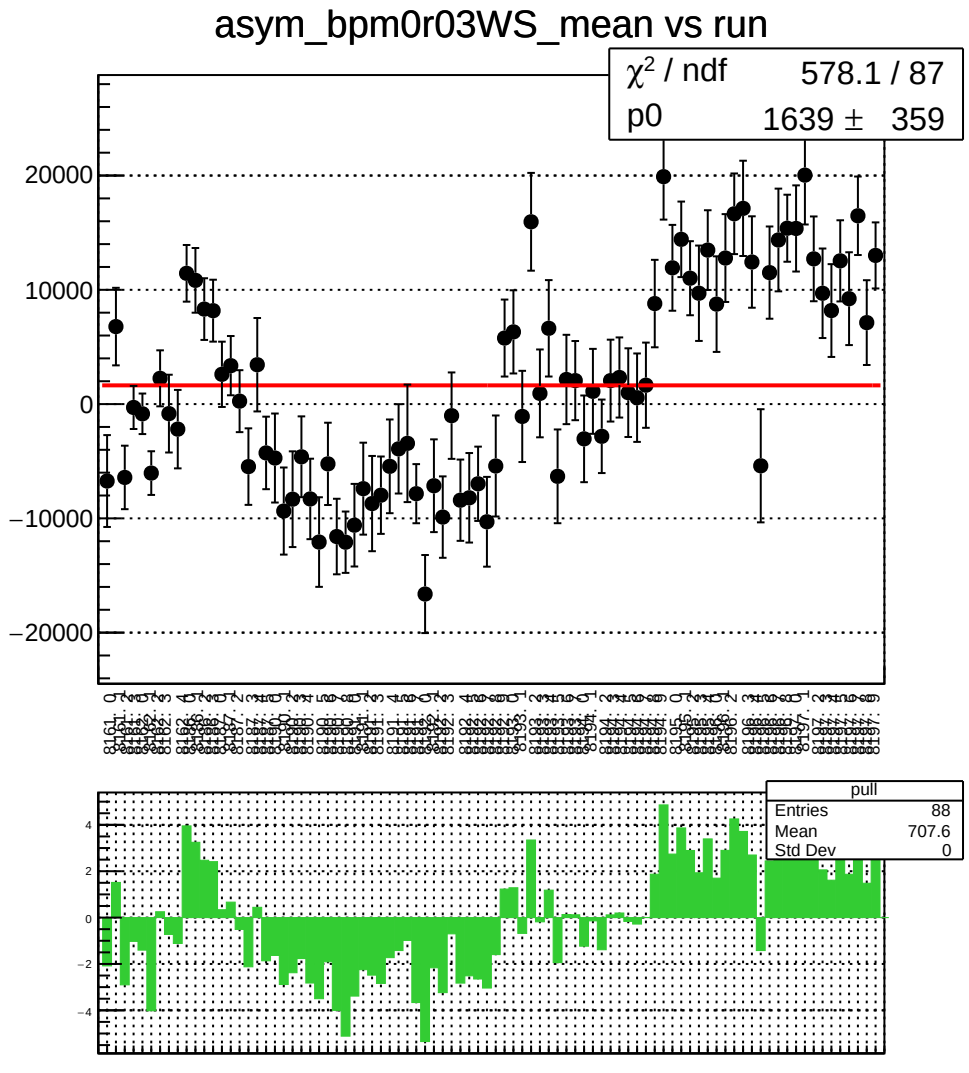

pull1D
Entries 88
Mean 0.03565
Std Dev 3.34

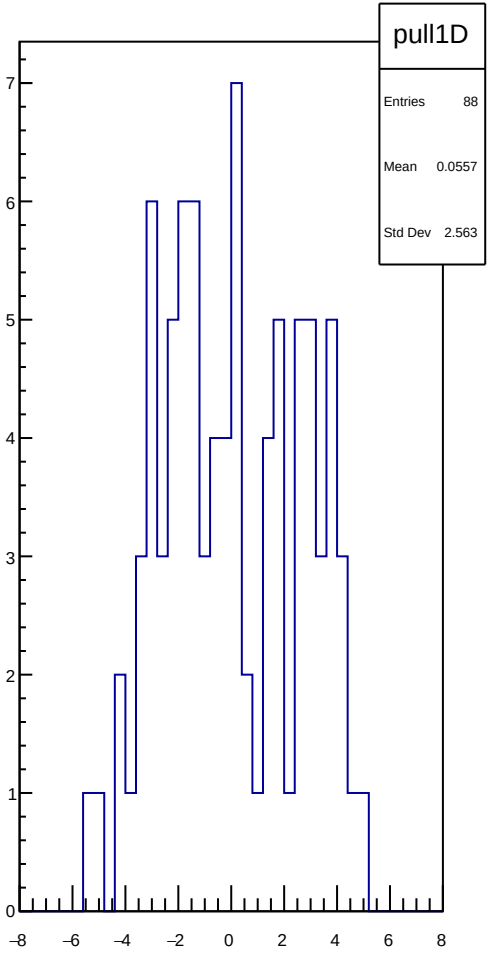

asym_bpm0l09WS_rms vs run
χ² / ndf 1.37e+05 / 87
p0 232.6 ± 0.1881
1800
1600
1400
1200
1000
800
600
400
200

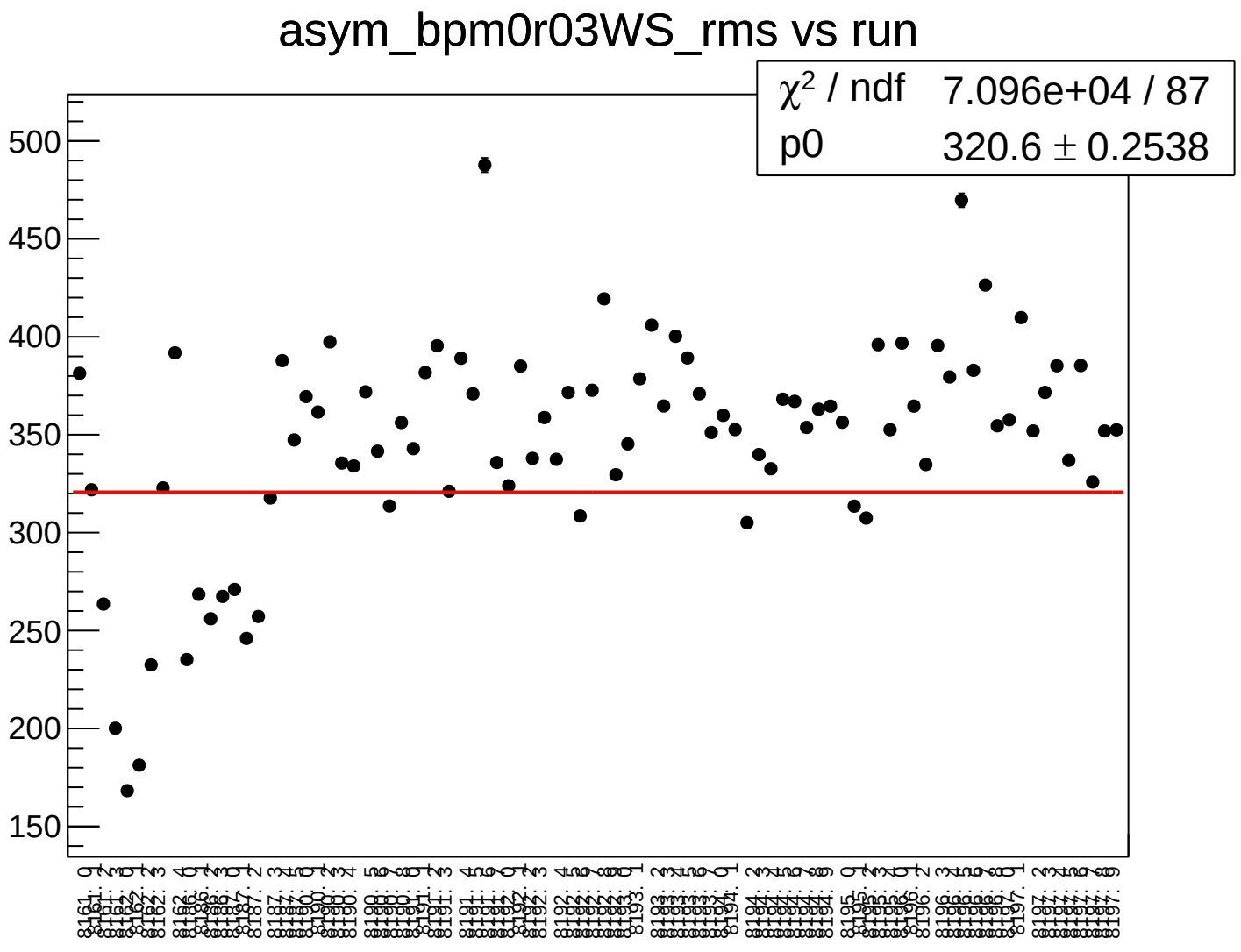

asym_bpm0l10WS_mean vs run
χ² / ndf 1074 / 87
p0 1682 ± 244.2
pull
Entries 88
Mean 491.9
Std Dev 0

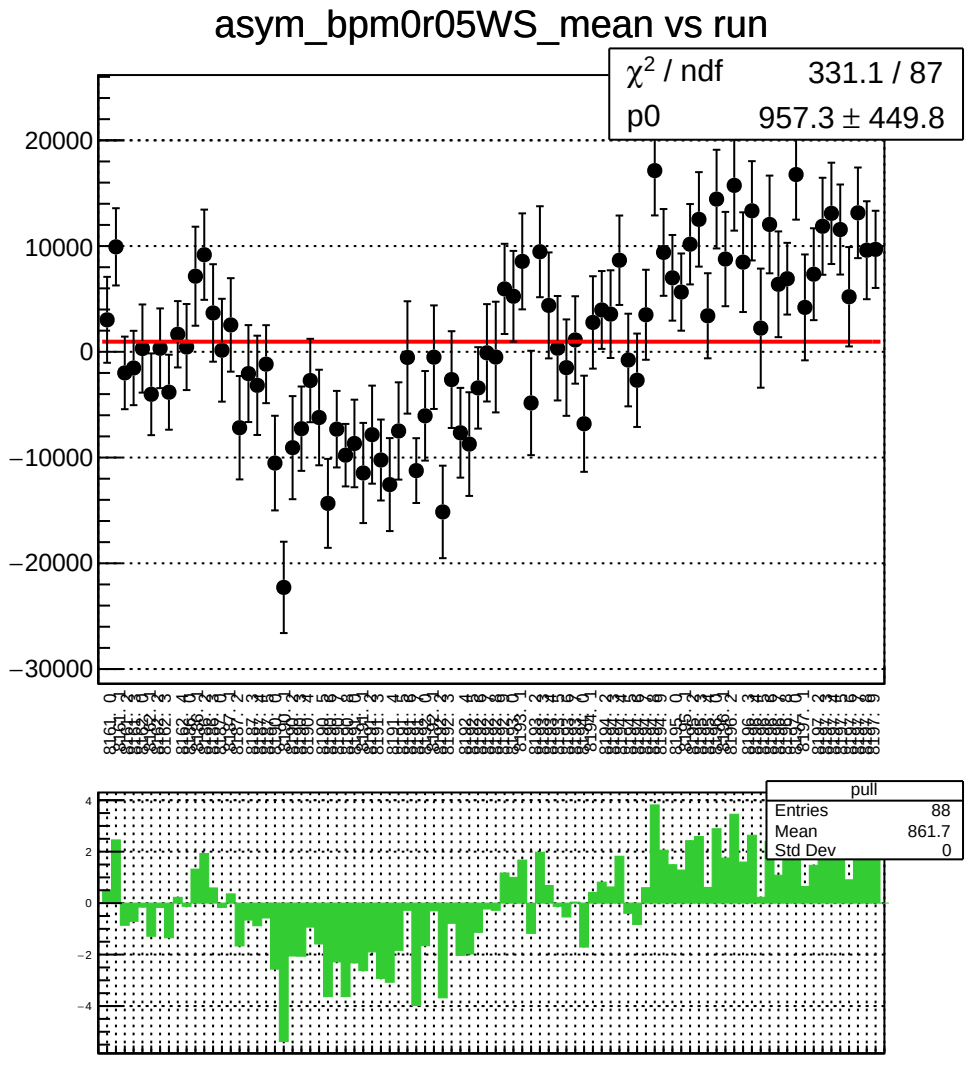

pull1D
Entries 88
Mean 0.1226
Std Dev 3.492

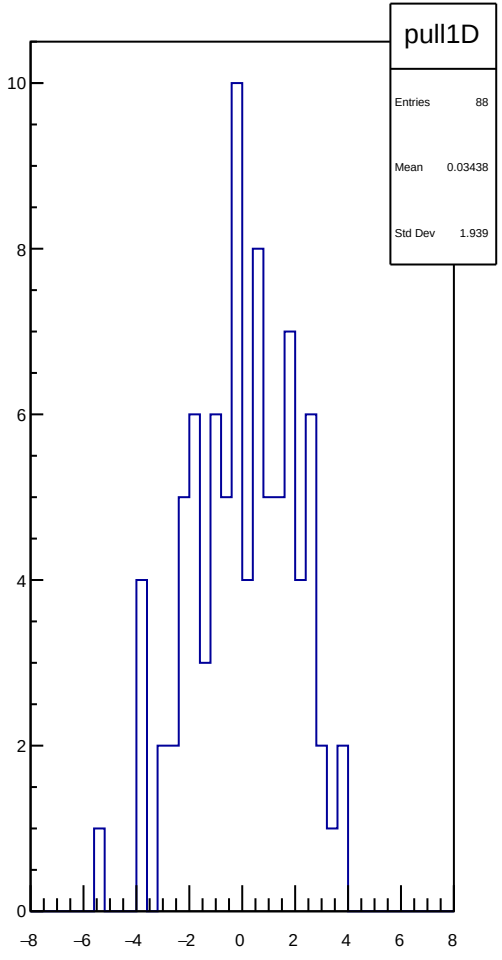

asym_bpm0l10WS_rms vs run
χ² / ndf 2.275e+04 / 87
p0 221.4 ± 0.1727
350
300
250
200
150

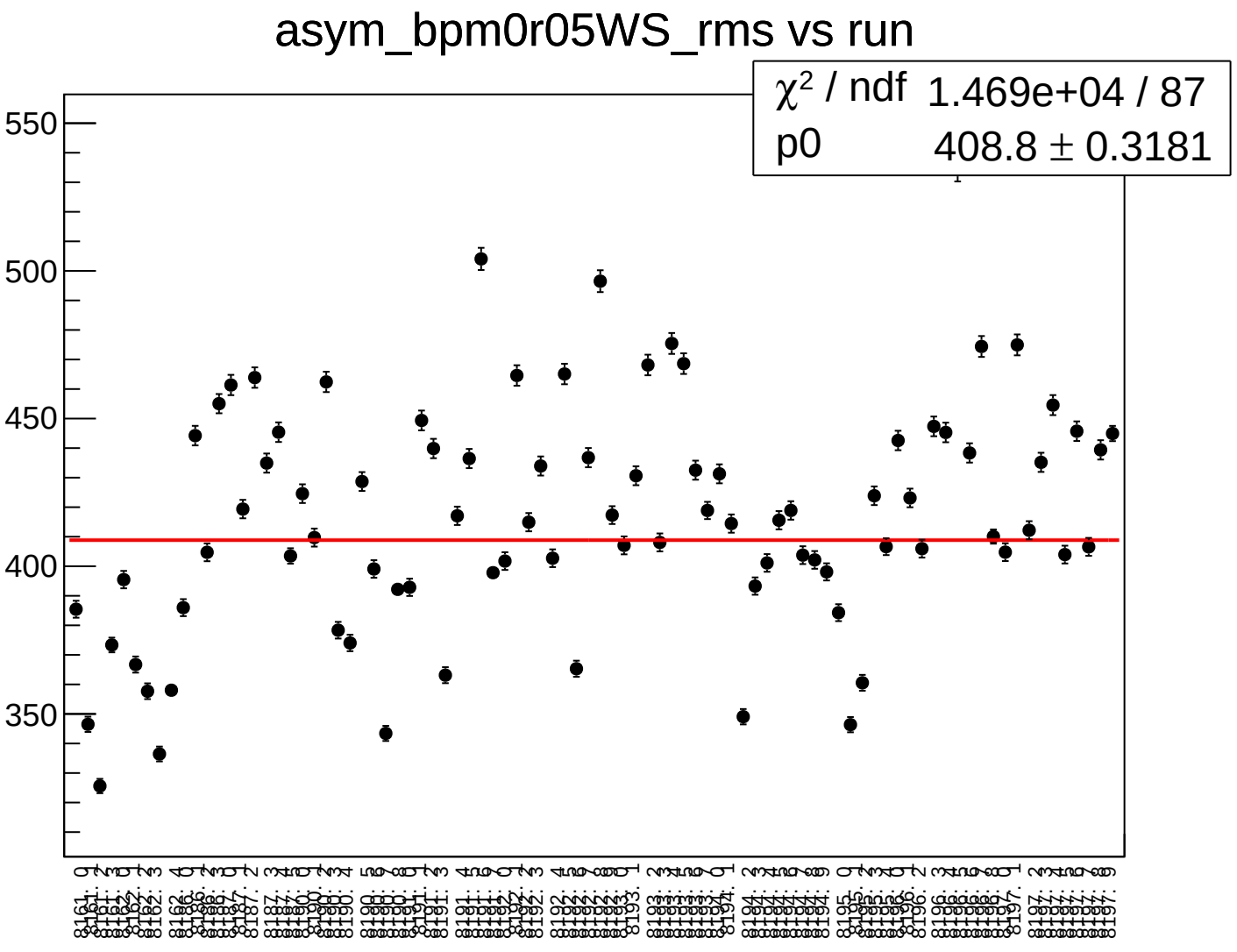

asym_bpm0r03WS_mean vs run
χ² / ndf 578.1 / 87
p0 1639 ± 359
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 707.6
Std Dev 0
4
2
0
−2
−4

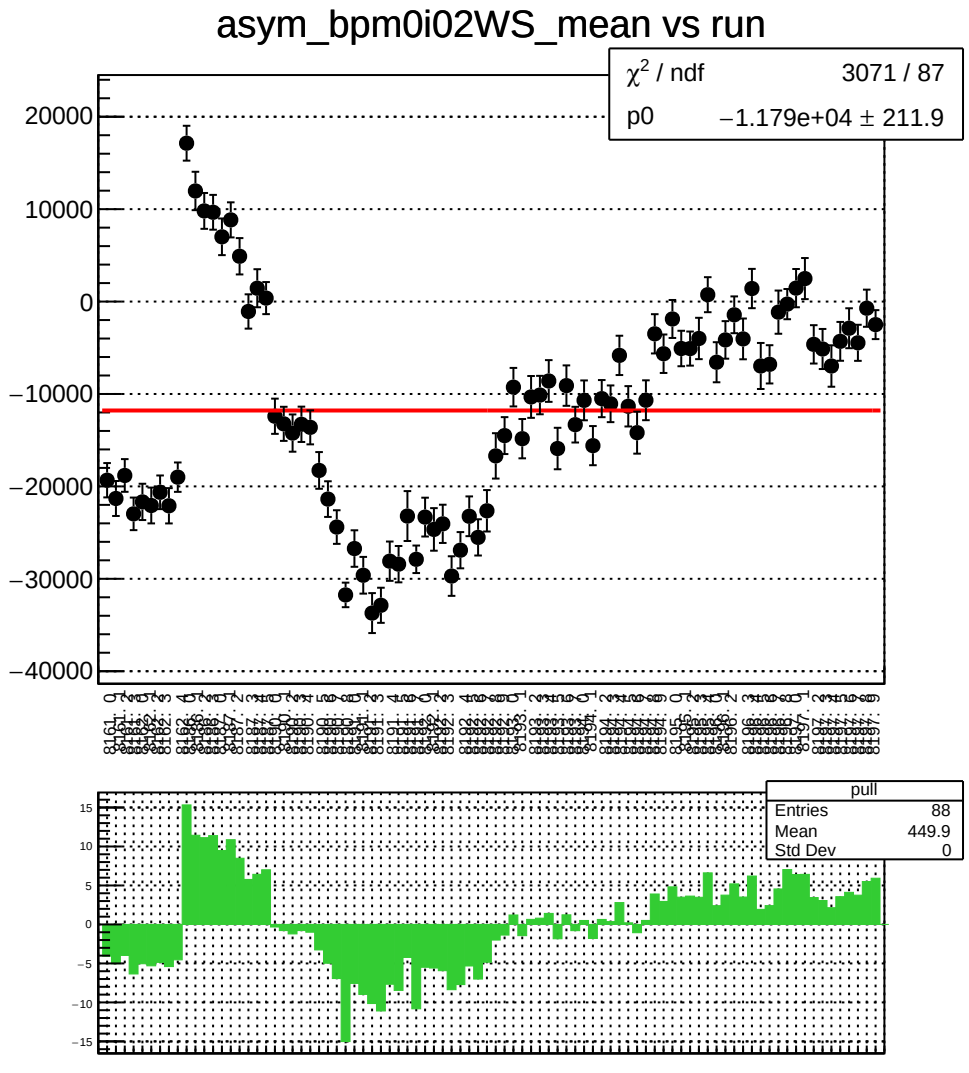

pull1D
Entries 88
Mean 0.0557
Std Dev 2.563
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

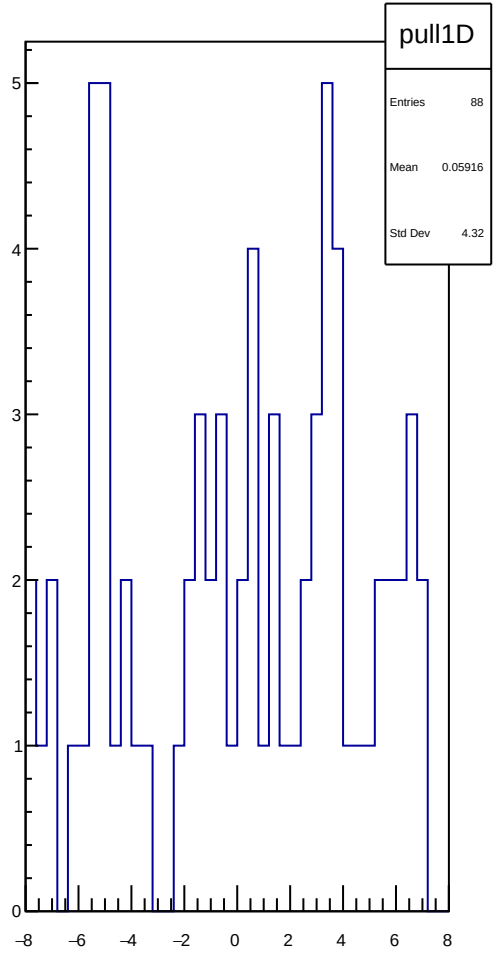

asym_bpm0r03WS_rms vs run
χ² / ndf 7.096e+04 / 87
p0 320.6 ± 0.2538
500
450
400
350
300
250
200
150

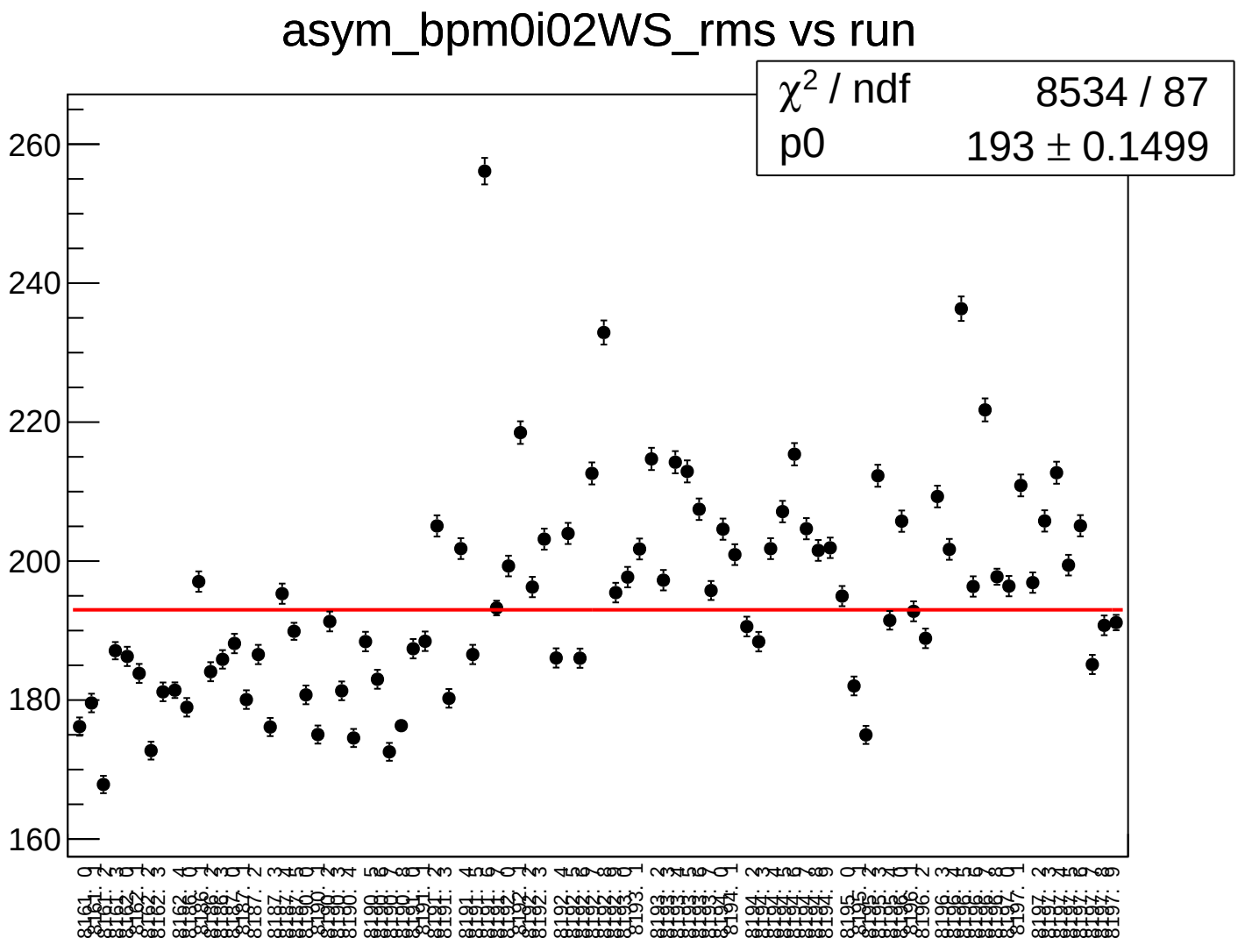

asym_bpm0r05WS_mean vs run
χ² / ndf 331.1 / 87
p0 957.3 ± 449.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 861.7
Std Dev 0
4
2
0
−2
−4

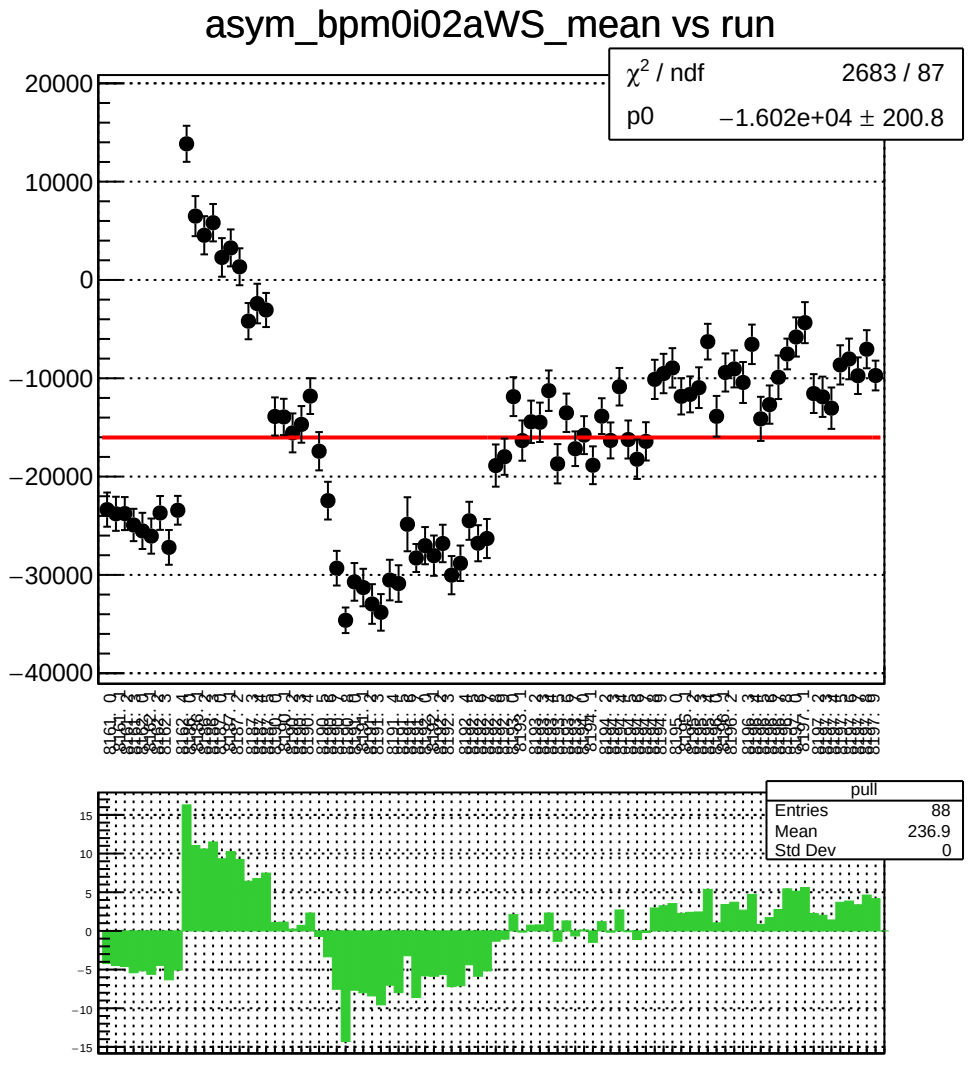

pull1D
Entries 88
Mean 0.03438
Std Dev 1.939
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

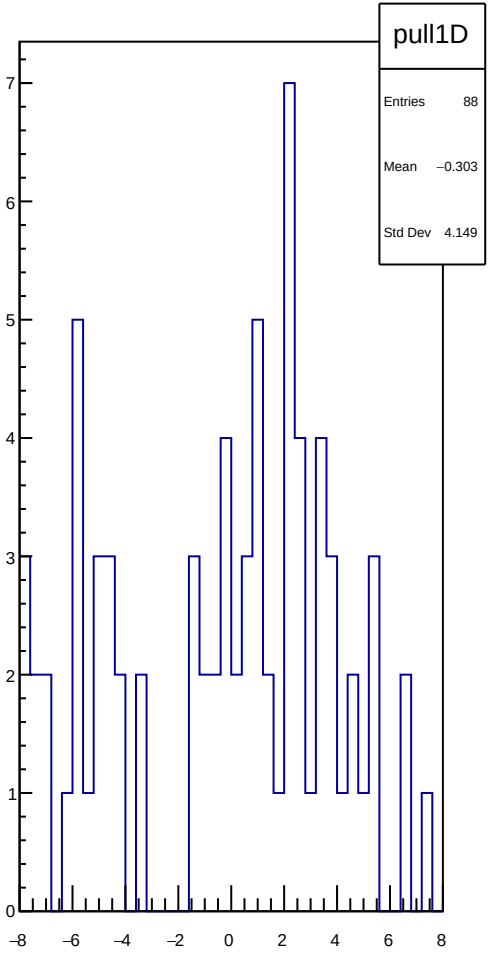

asym_bpm0r05WS_rms vs run
χ² / ndf 1.469e+04 / 87
p0 408.8 ± 0.3181
550
500
450
400
350

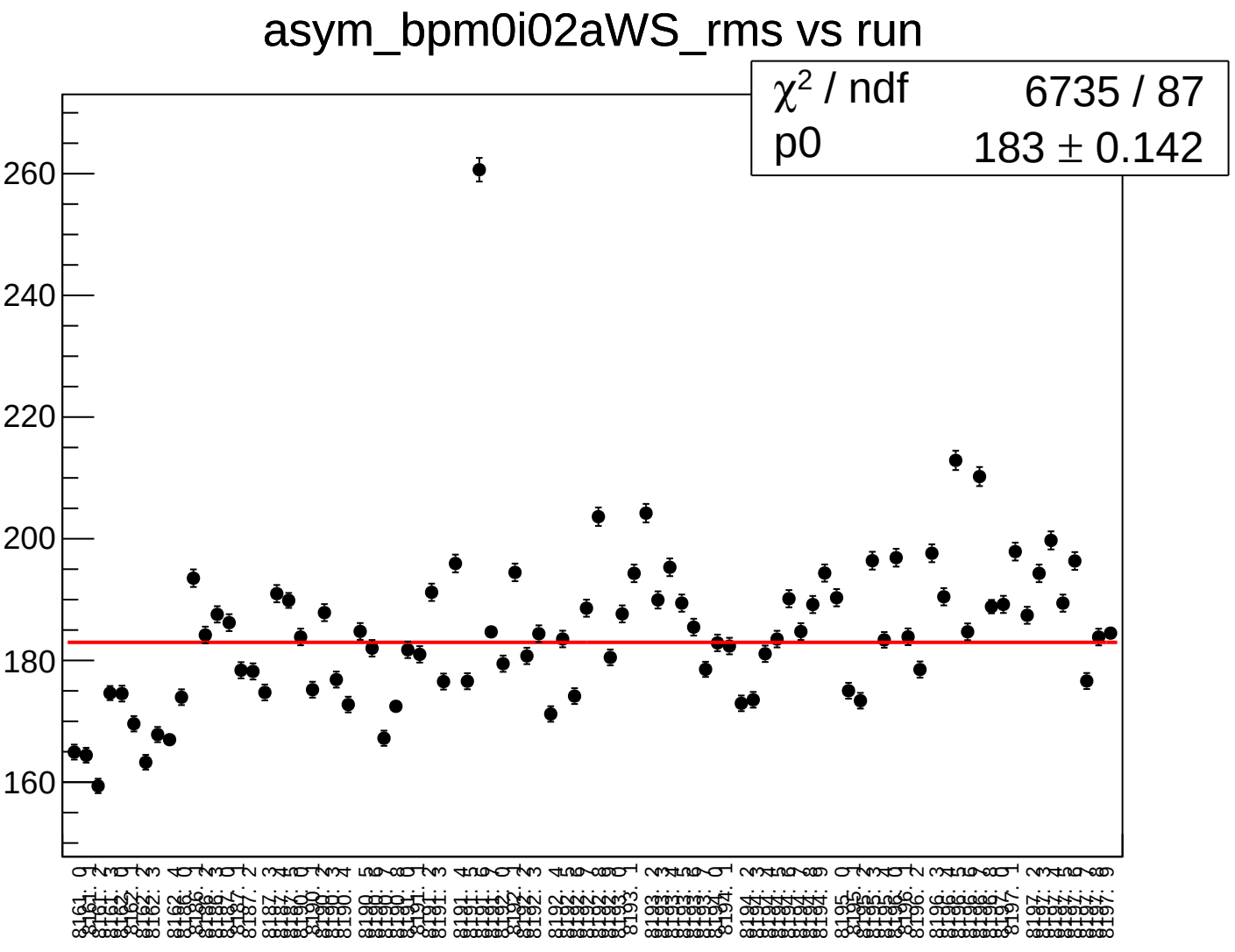

asym_bpm0i02WS_mean vs run
χ² / ndf 3071 / 87
p0 −1.179e+04 ± 211.9
pull
Entries 88
Mean 449.9
Std Dev 0

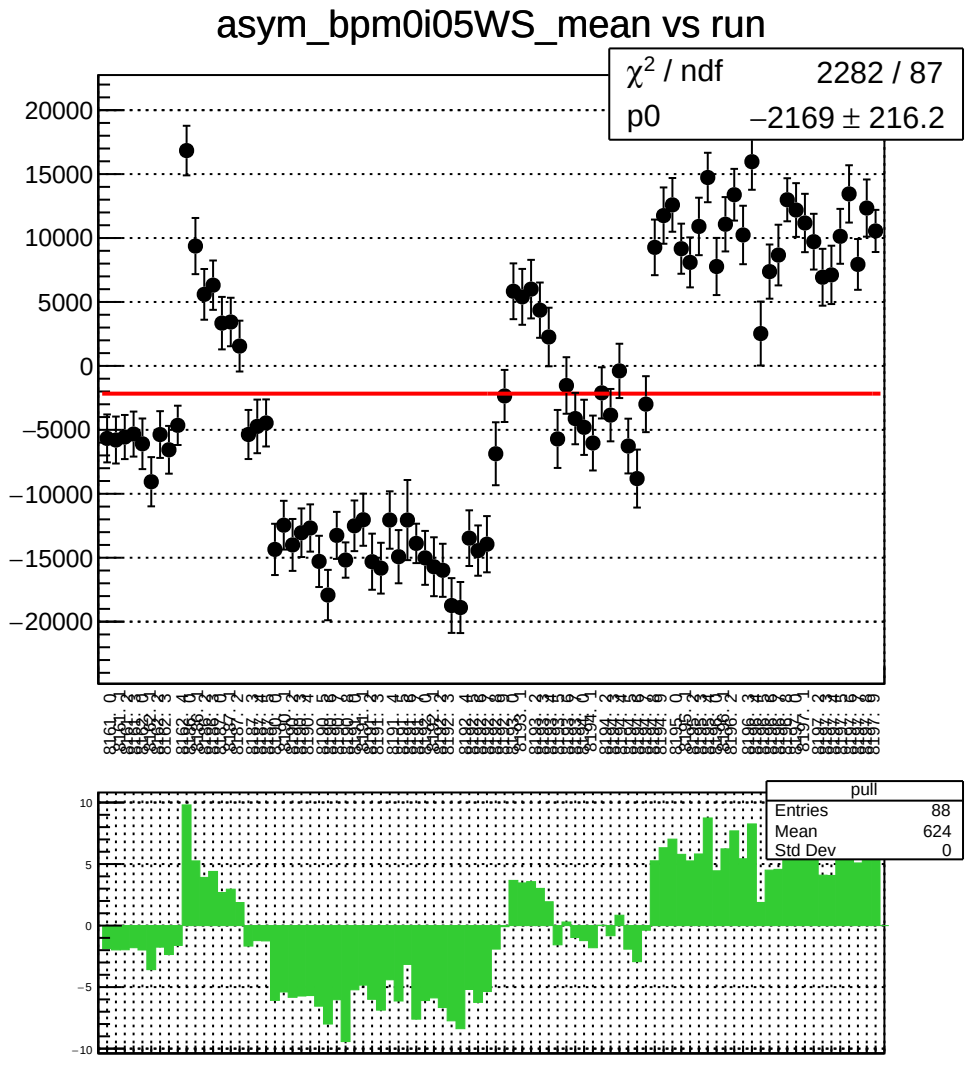

pull1D
Entries 88
Mean 0.05916
Std Dev 4.32

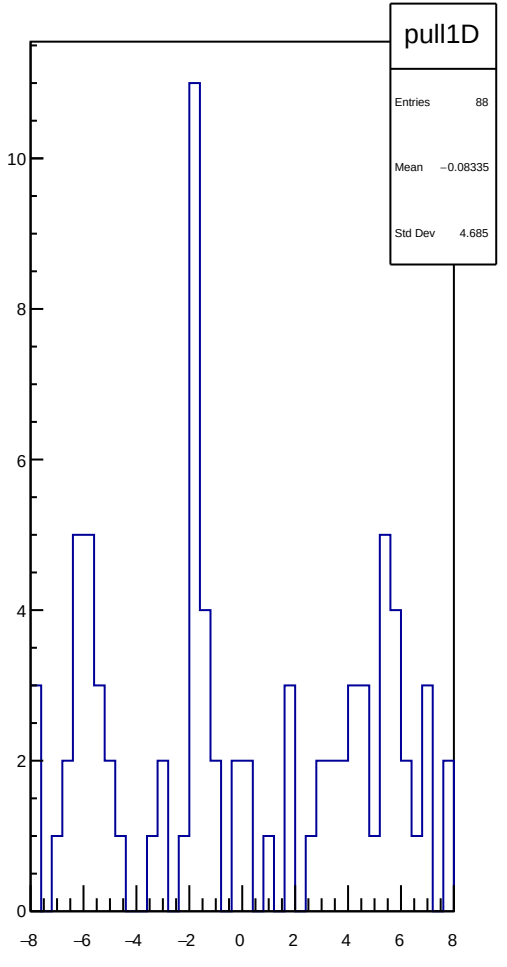

asym_bpm0i02WS_rms vs run
χ² / ndf 8534 / 87
p0 193 ± 0.1499
260
240
220
200
180
160

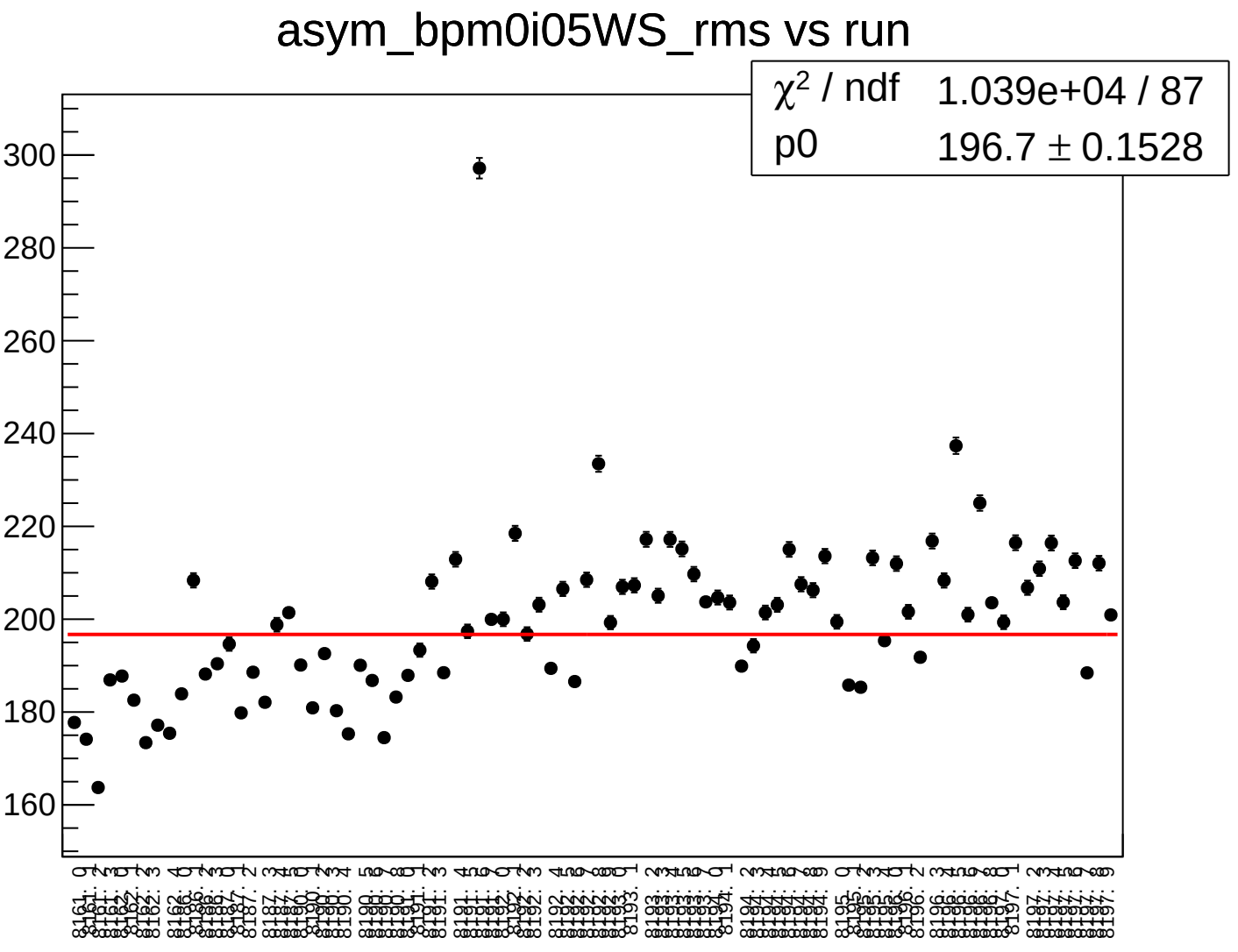

asym_bpm0i02aWS_mean vs run
χ² / ndf 2683 / 87
p0 −1.602e+04 ± 200.8
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 236.9
Std Dev 0
15
10
5
0
−5
−10
−15

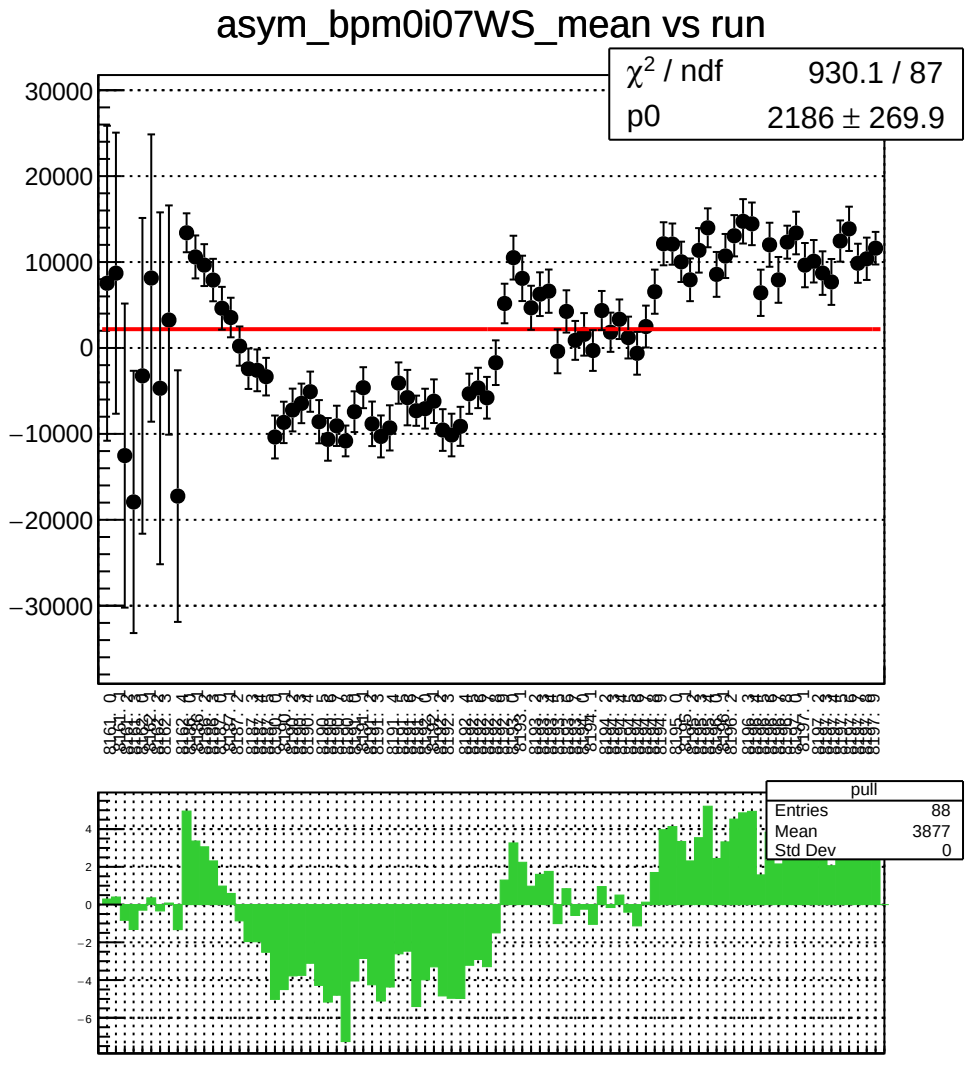

pull1D
Entries 88
Mean −0.303
Std Dev 4.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

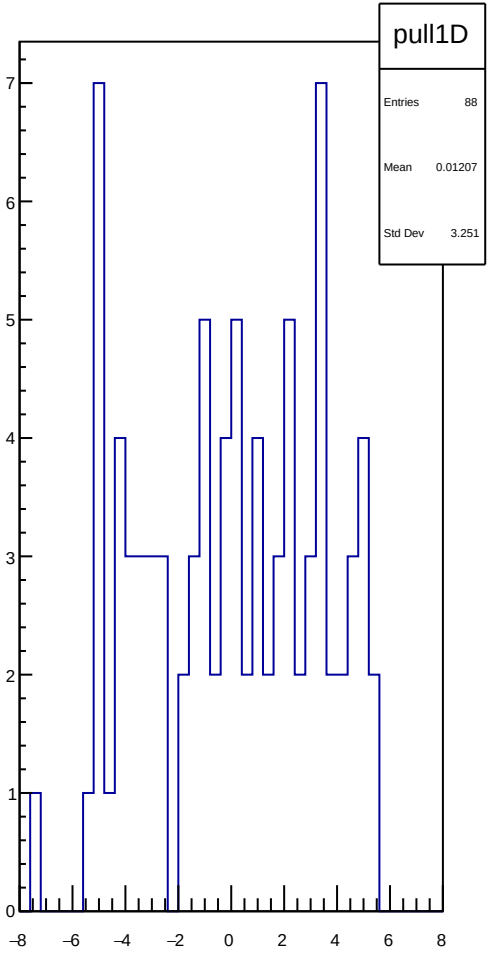

asym_bpm0i02aWS_rms vs run
χ² / ndf 6735 / 87
p0 183 ± 0.142
260
240
220
200
180
160

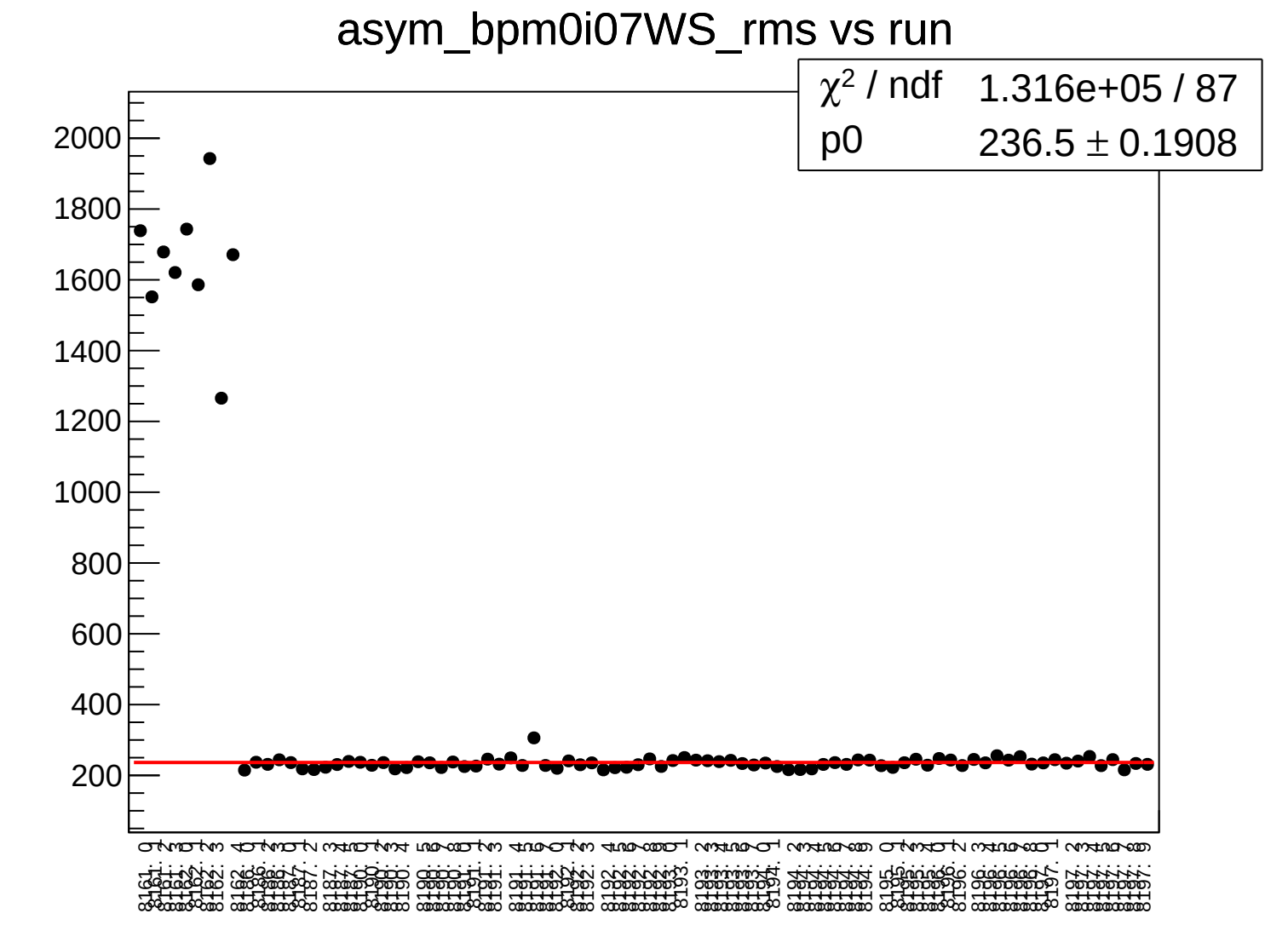

asym_bpm0i05WS_mean vs run
χ² / ndf 2282 / 87
p0 −2169 ± 216.2
pull
Entries 88
Mean 624
Std Dev 0

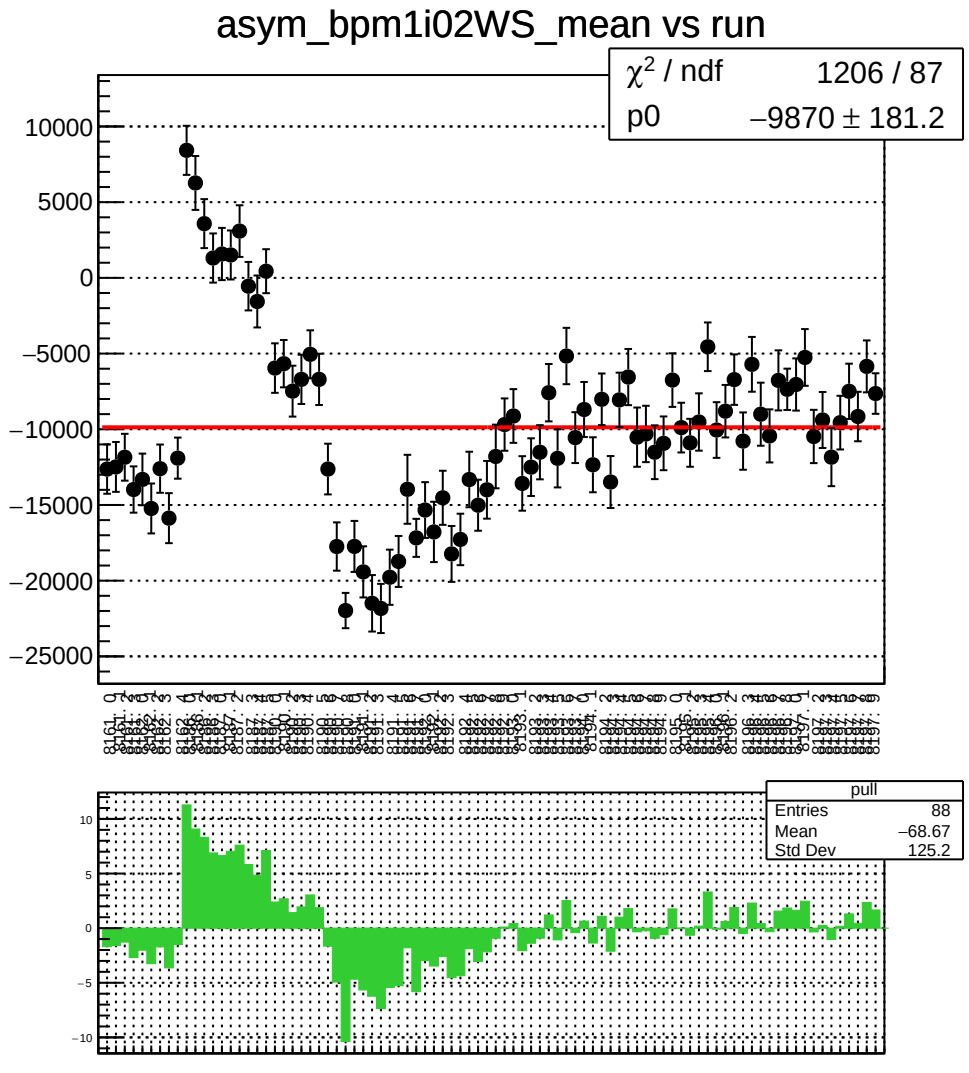

pull1D
Entries 88
Mean −0.08335
Std Dev 4.685

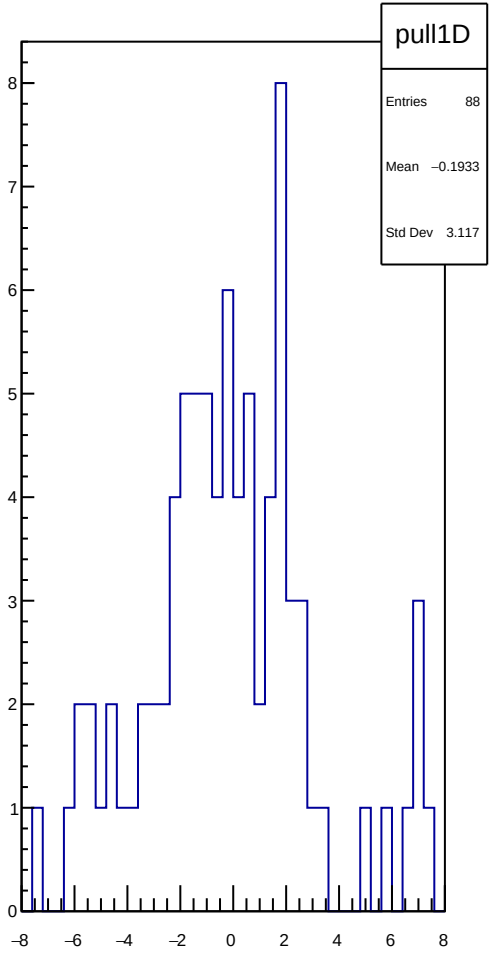

asym_bpm0i05WS_rms vs run
χ² / ndf 1.039e+04 / 87
p0 196.7 ± 0.1528
300
280
260
240
220
200
180
160

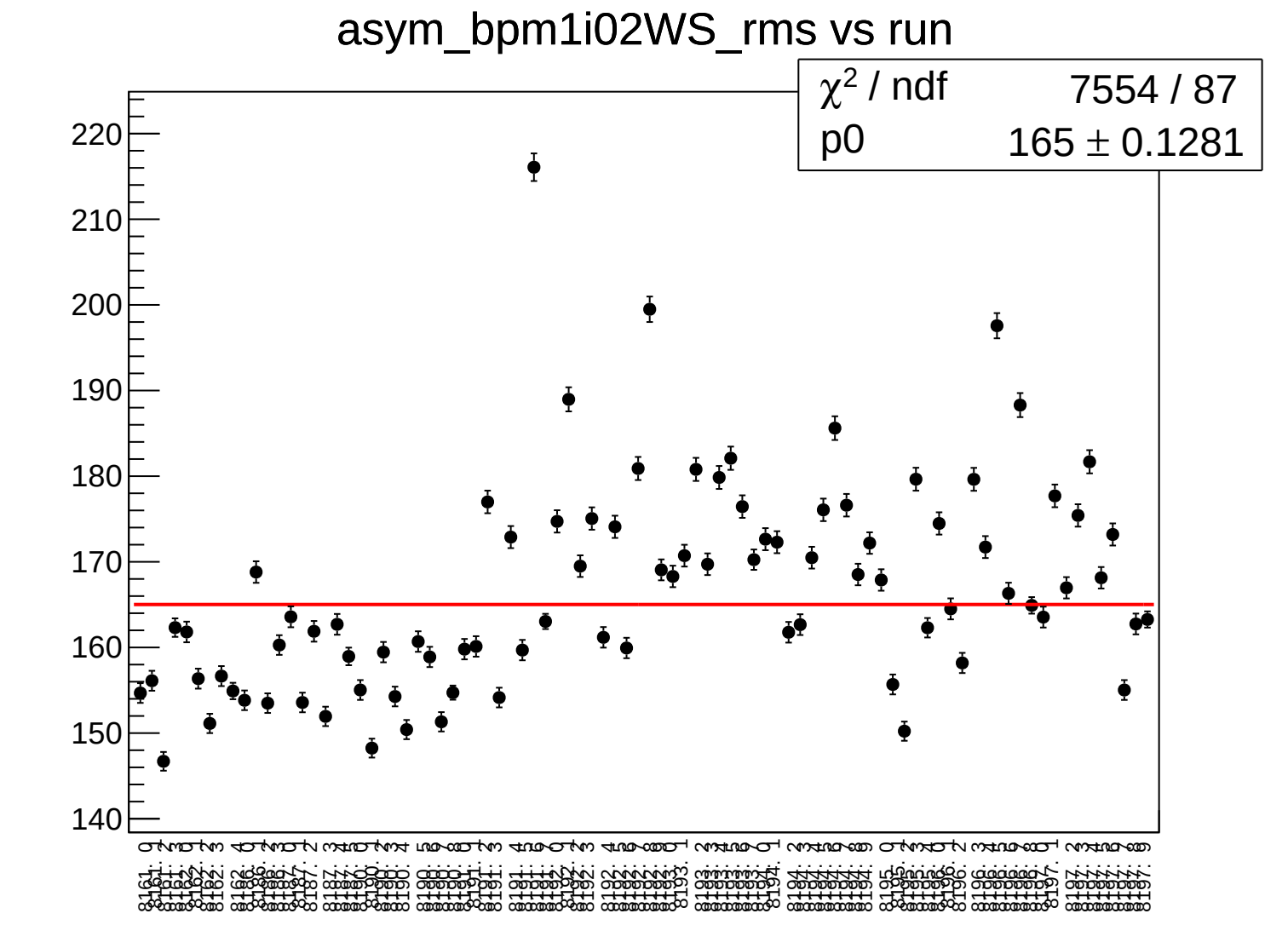

asym_bpm0i07WS_mean vs run
χ² / ndf 930.1 / 87
p0 2186 ± 269.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 3877
Std Dev 0
4
2
0
−2
−4
−6

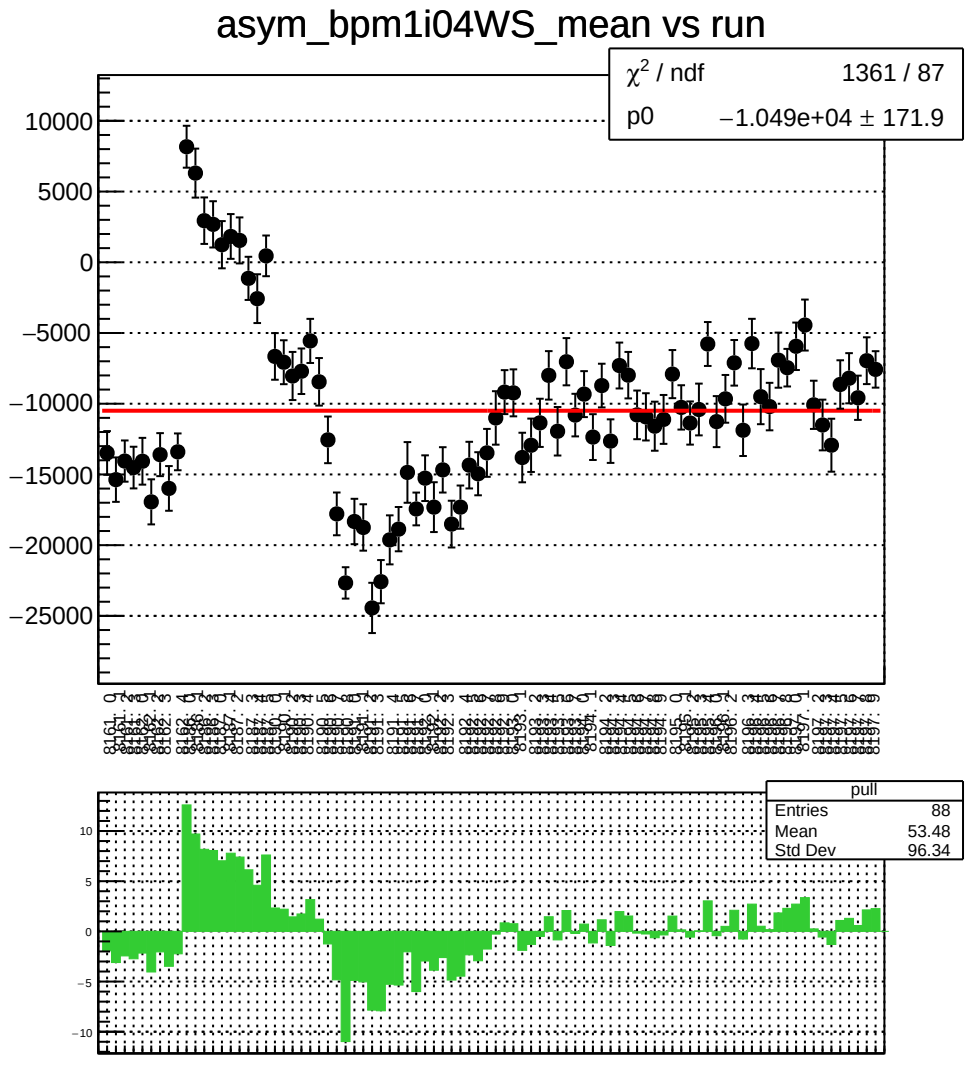

pull1D
Entries 88
Mean 0.01207
Std Dev 3.251
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

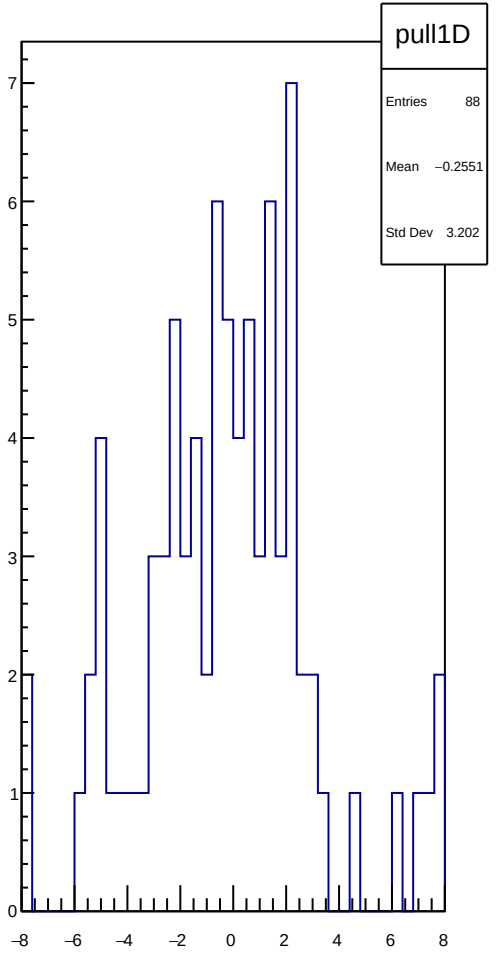

asym_bpm0i07WS_rms vs run
χ² / ndf 1.316e+05 / 87
p0 236.5 ± 0.1908
2000
1800
1600
1400
1200
1000
800
600
400
200

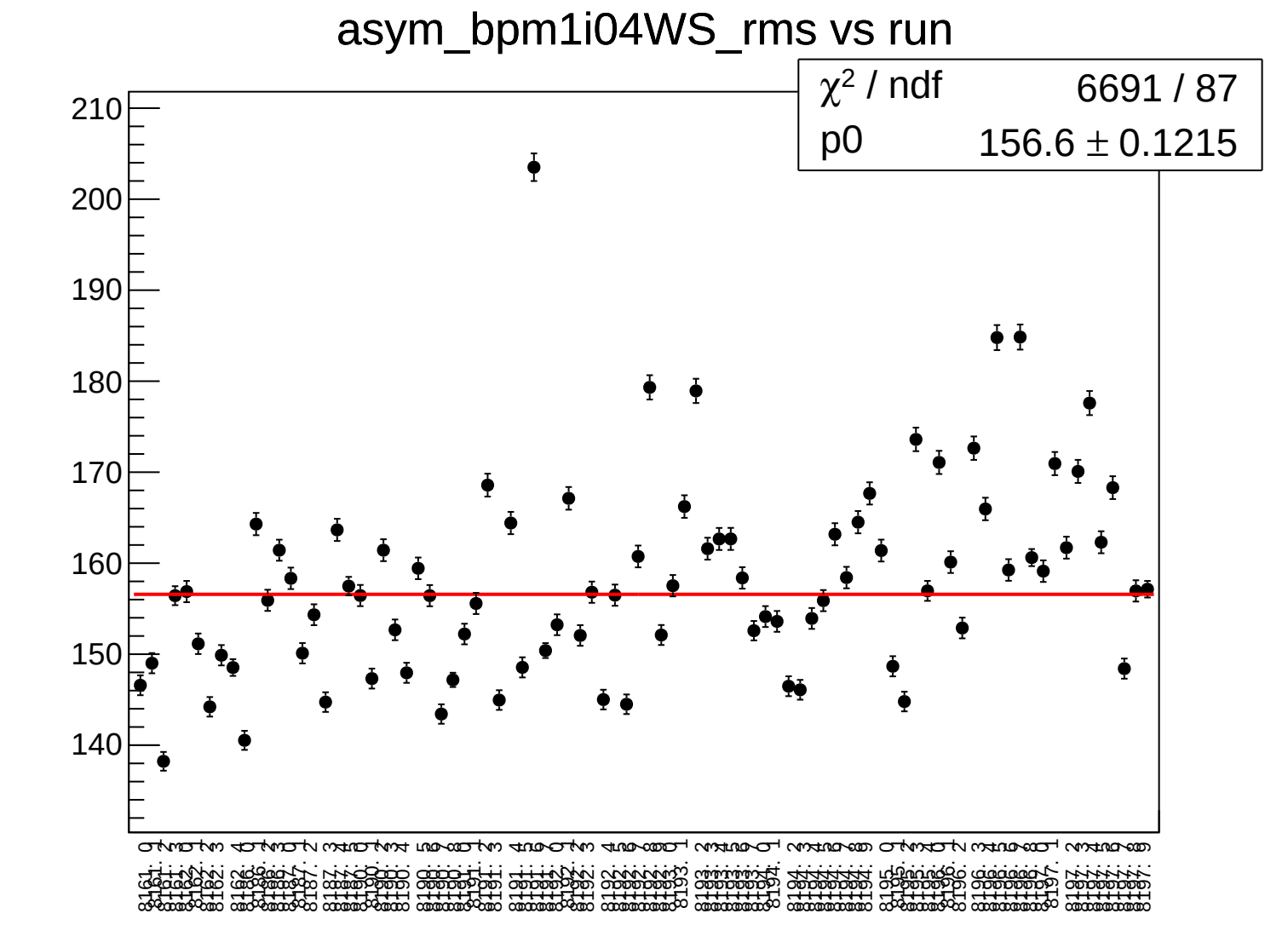

asym_bpm1i02WS_mean vs run
χ² / ndf 1206 / 87
p0 −9870 ± 181.2
pull
Entries 88
Mean −68.67
Std Dev 125.2

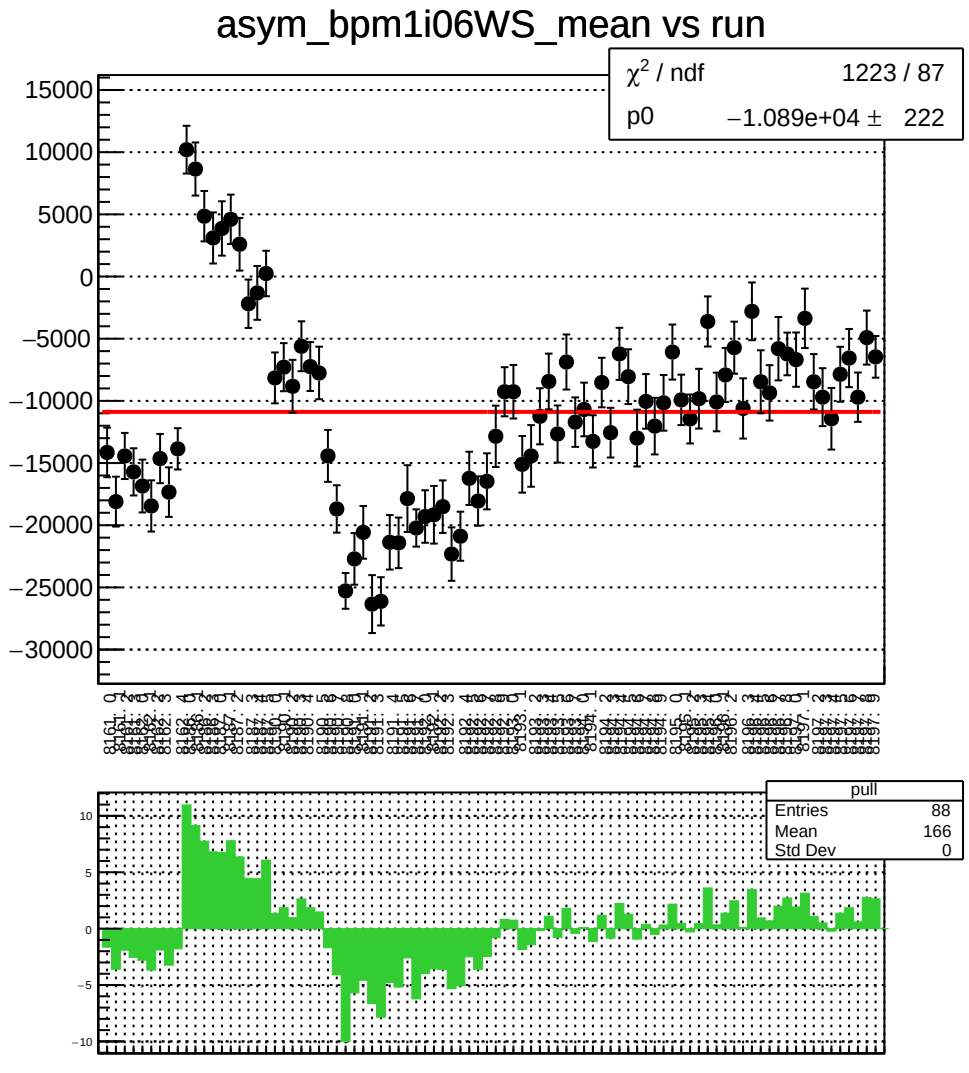

pull1D
Entries 88
Mean −0.1933
Std Dev 3.117

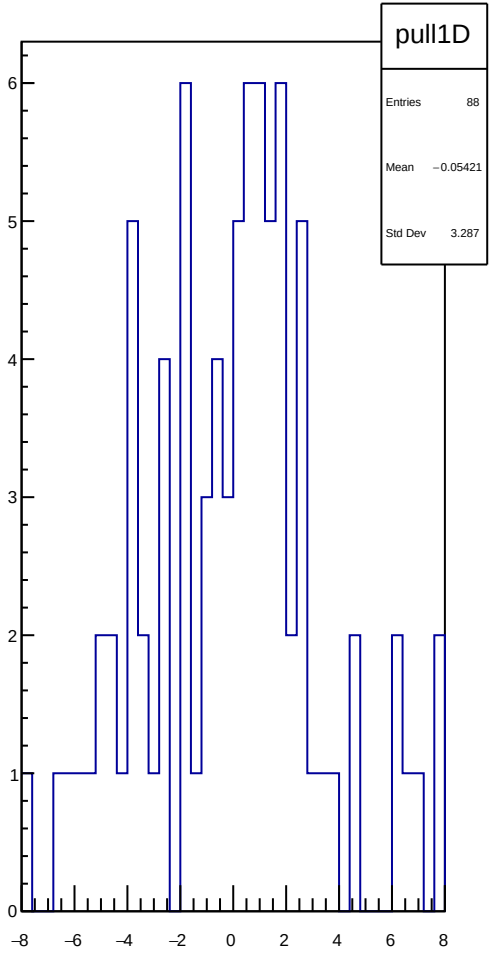

asym_bpm1i02WS_rms vs run
χ² / ndf 7554 / 87
p0 165 ± 0.1281
220
210
200
190
180
170
160
150
140

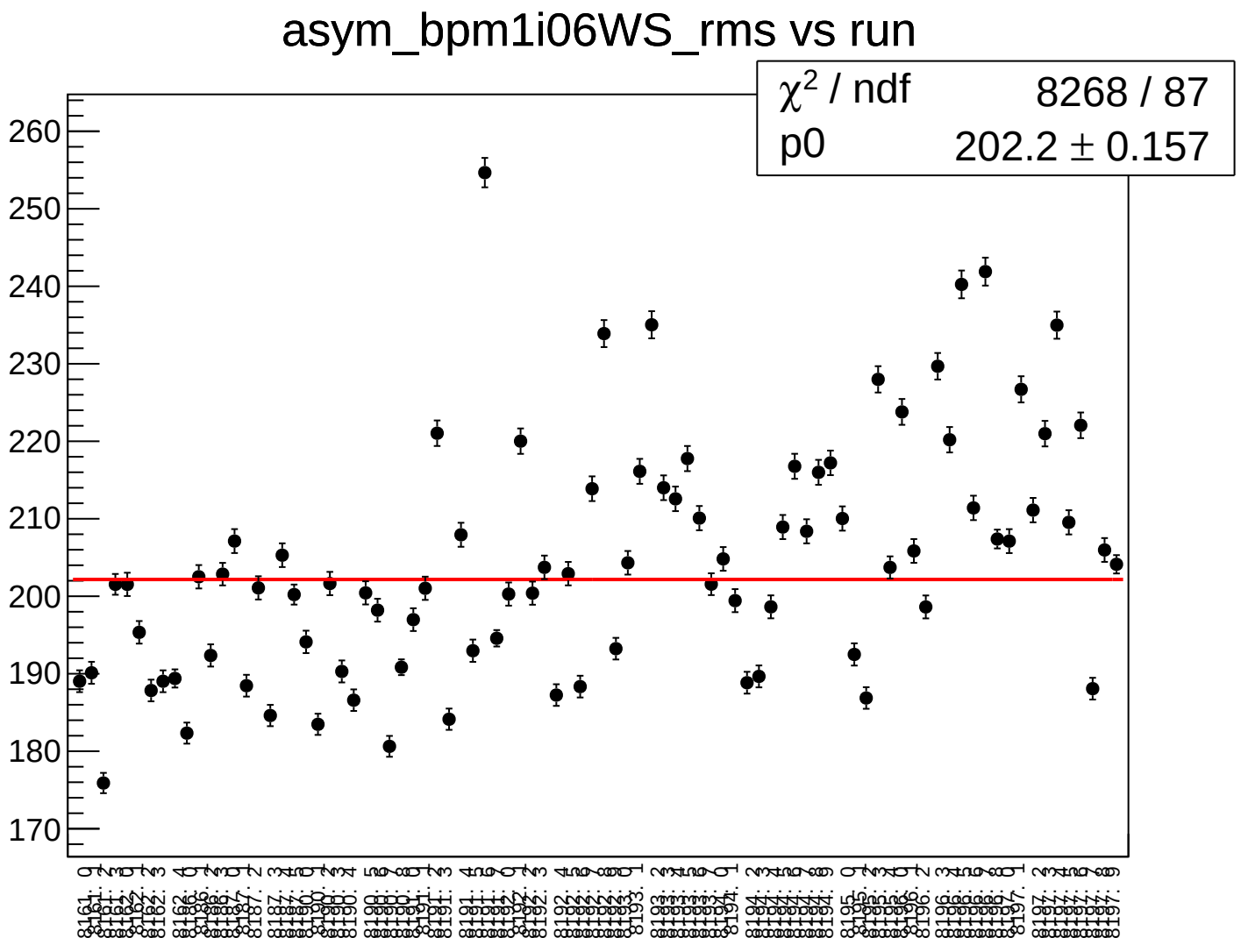

asym_bpm1i04WS_mean vs run
χ² / ndf 1361 / 87
p0 −1.049e+04 ± 171.9
pull
Entries 88
Mean 53.48
Std Dev 96.34

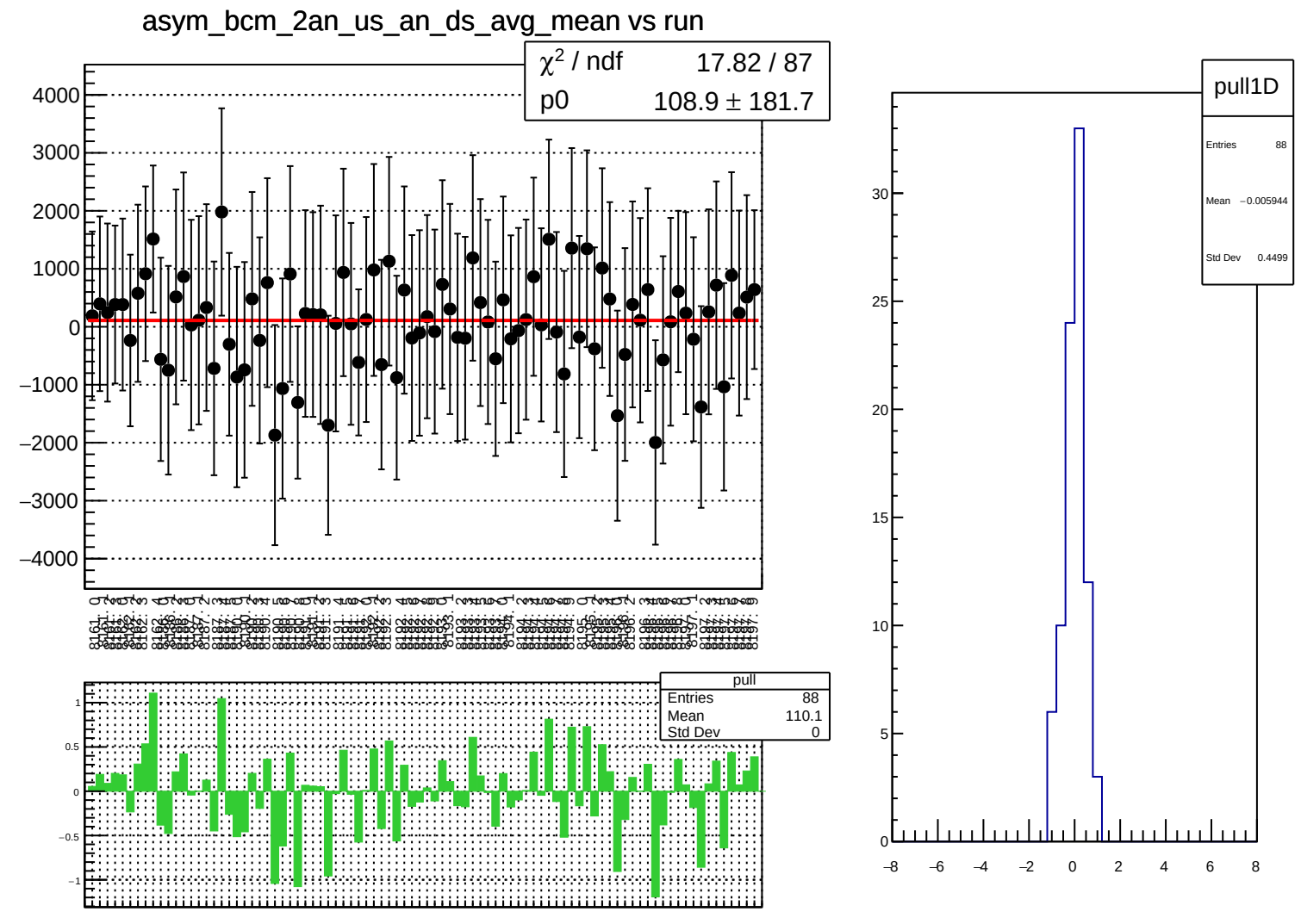

pull1D
Entries 88
Mean −0.2551
Std Dev 3.202

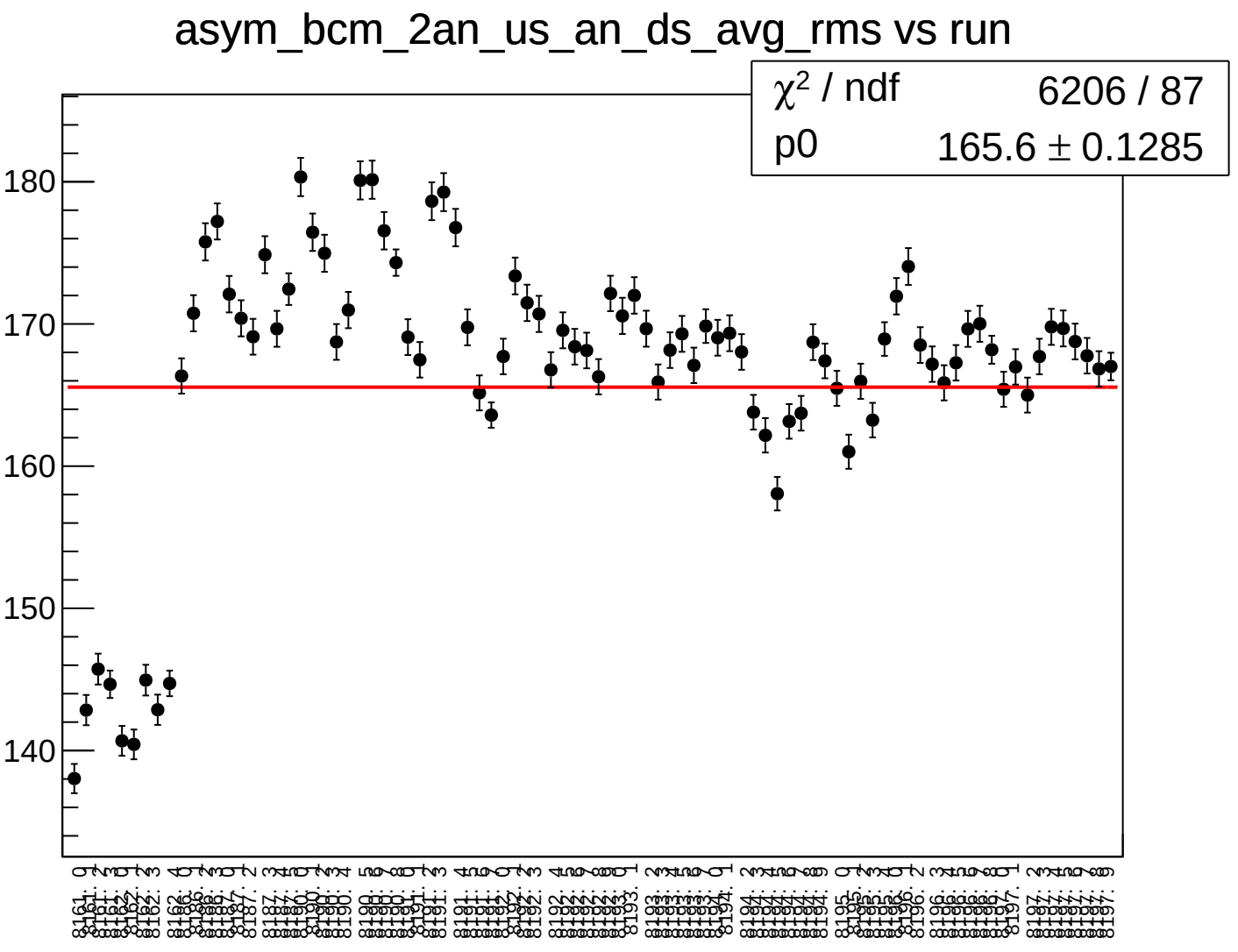

asym_bpm1i04WS_rms vs run
χ² / ndf 6691 / 87
p0 156.6 ± 0.1215
210
200
190
180
170
160
150
140

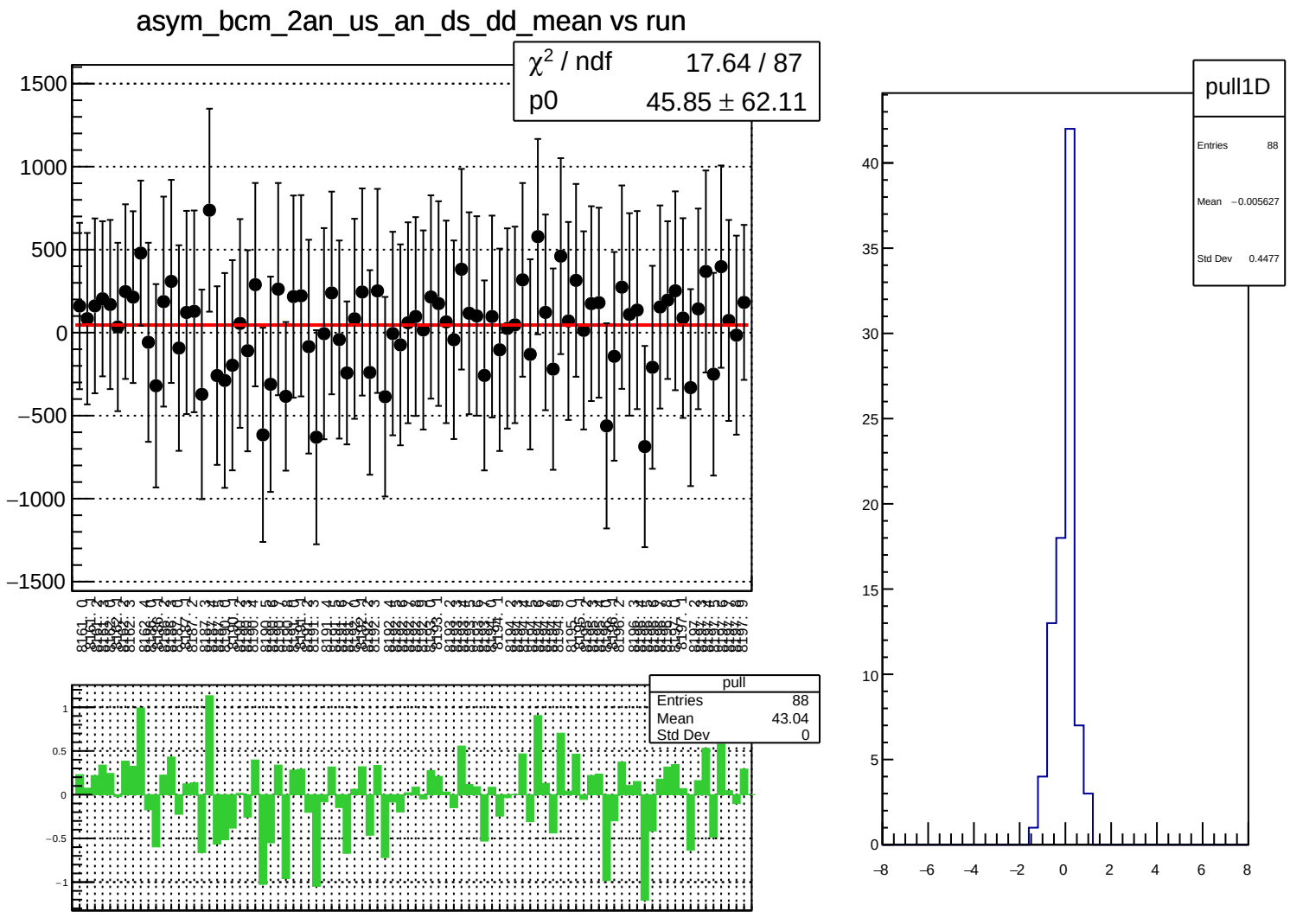

asym_bpm1i06WS_mean vs run
χ² / ndf 1223 / 87
p0 −1.089e+04 ± 222
pull
Entries 88
Mean 166
Std Dev 0

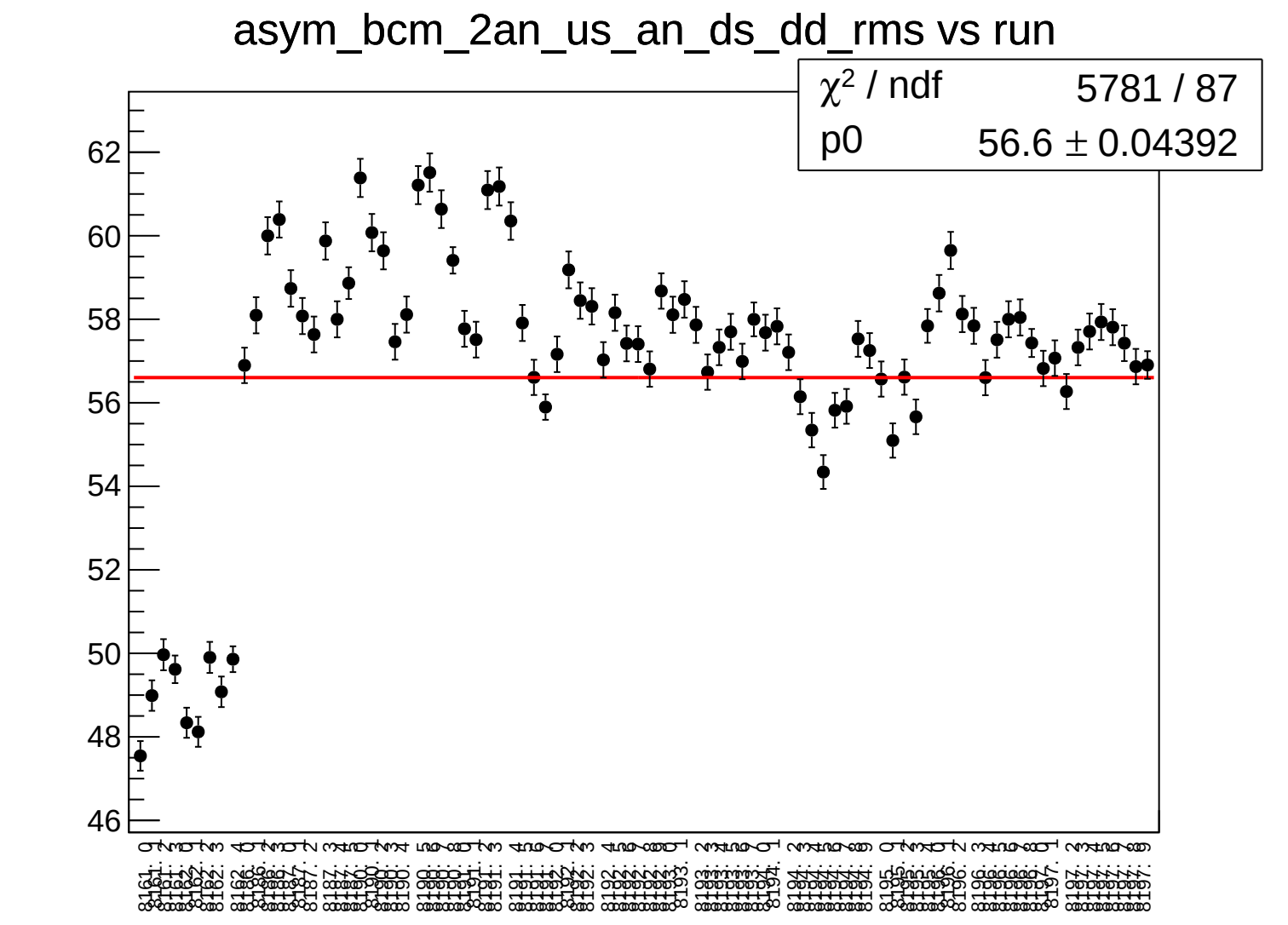

pull1D
Entries 88
Mean −0.05421
Std Dev 3.287

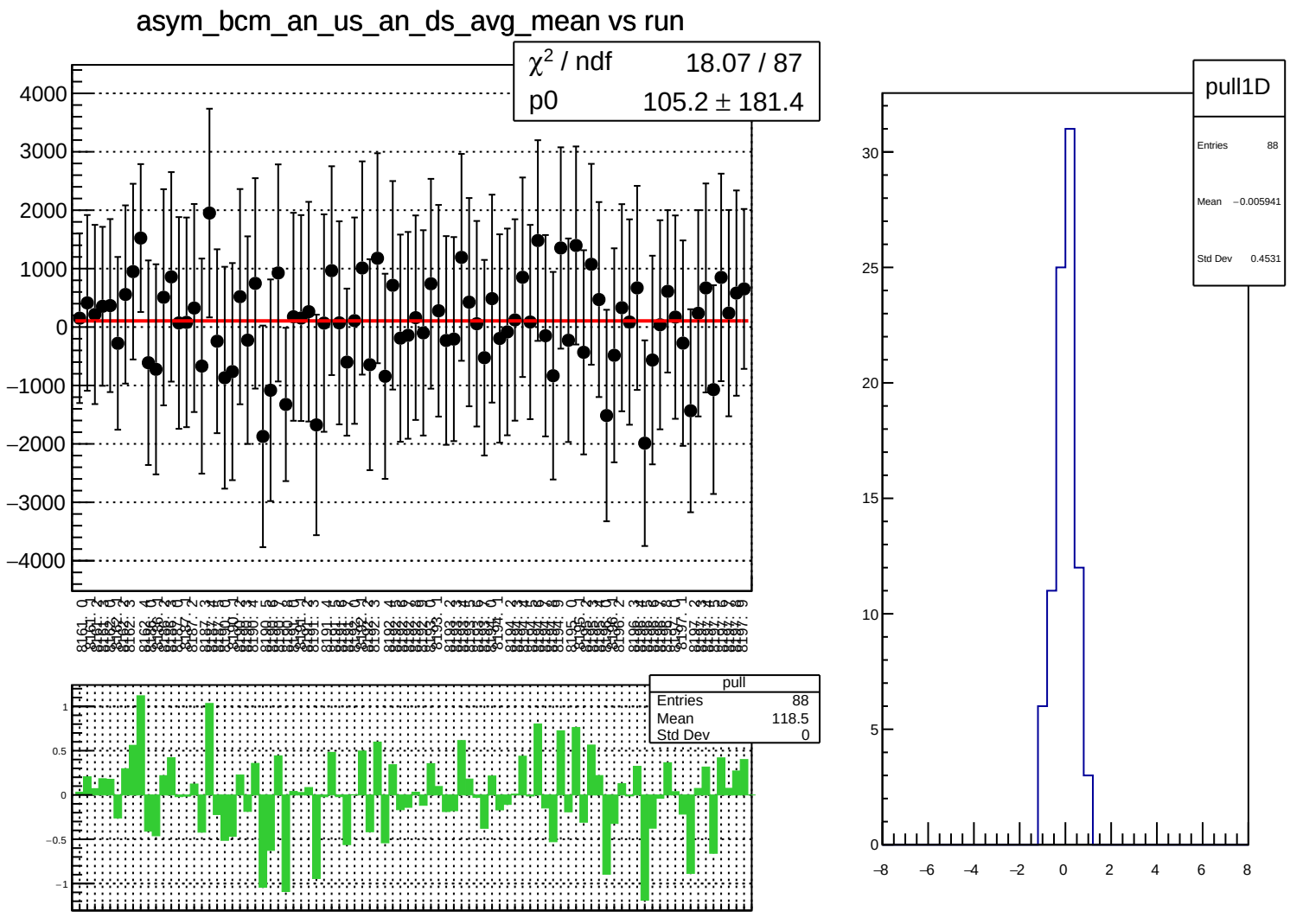

asym_bpm1i06WS_rms vs run
χ^2 / ndf 8268 / 87
p0 202.2 ± 0.157
260
250
240
230
220
210
200
190
180
170

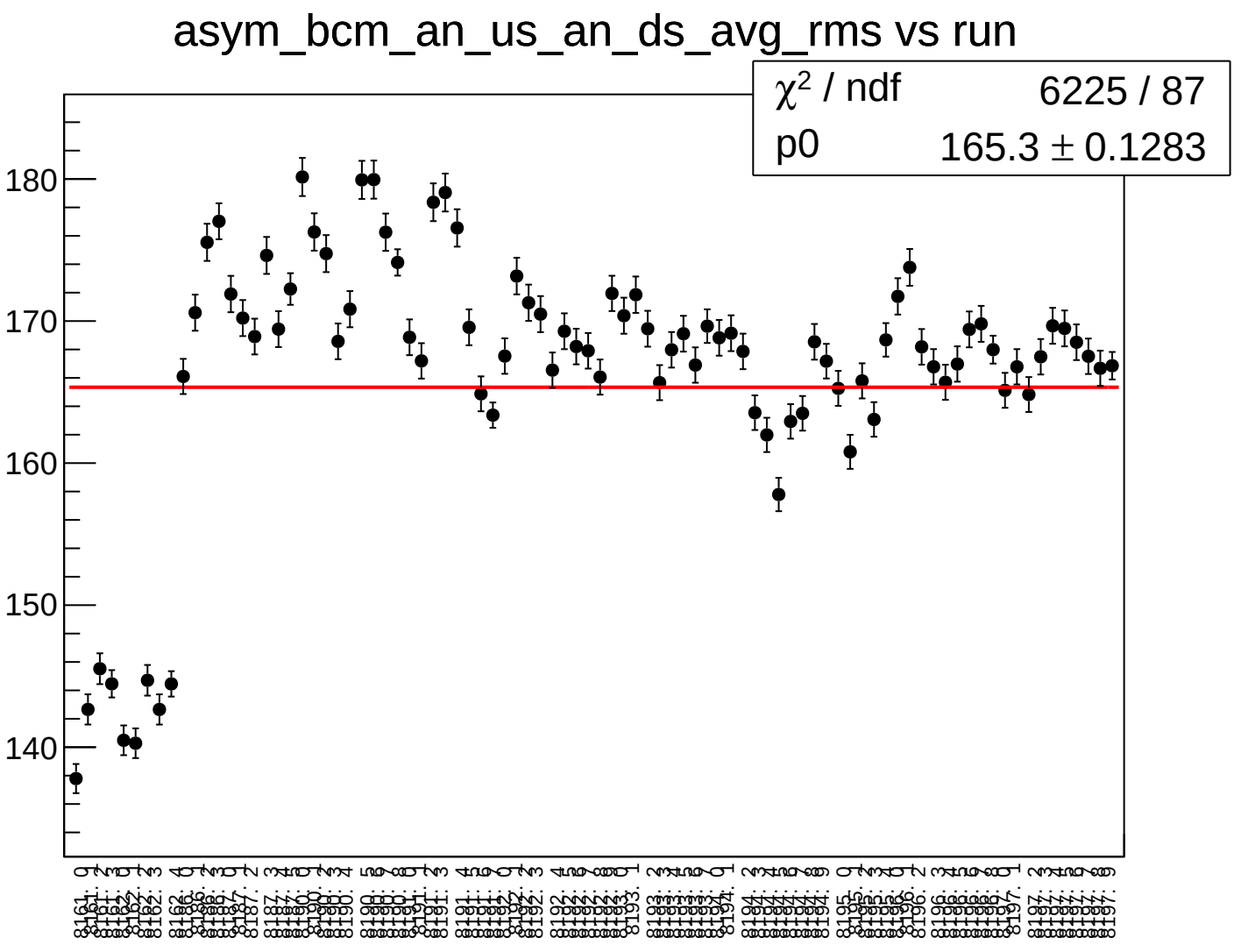

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 17.82 / 87
p0 108.9 ± 181.7
pull
Entries 88
Mean 110.1
Std Dev 0
pull1D
Entries 88
Mean −0.005944
Std Dev 0.4499

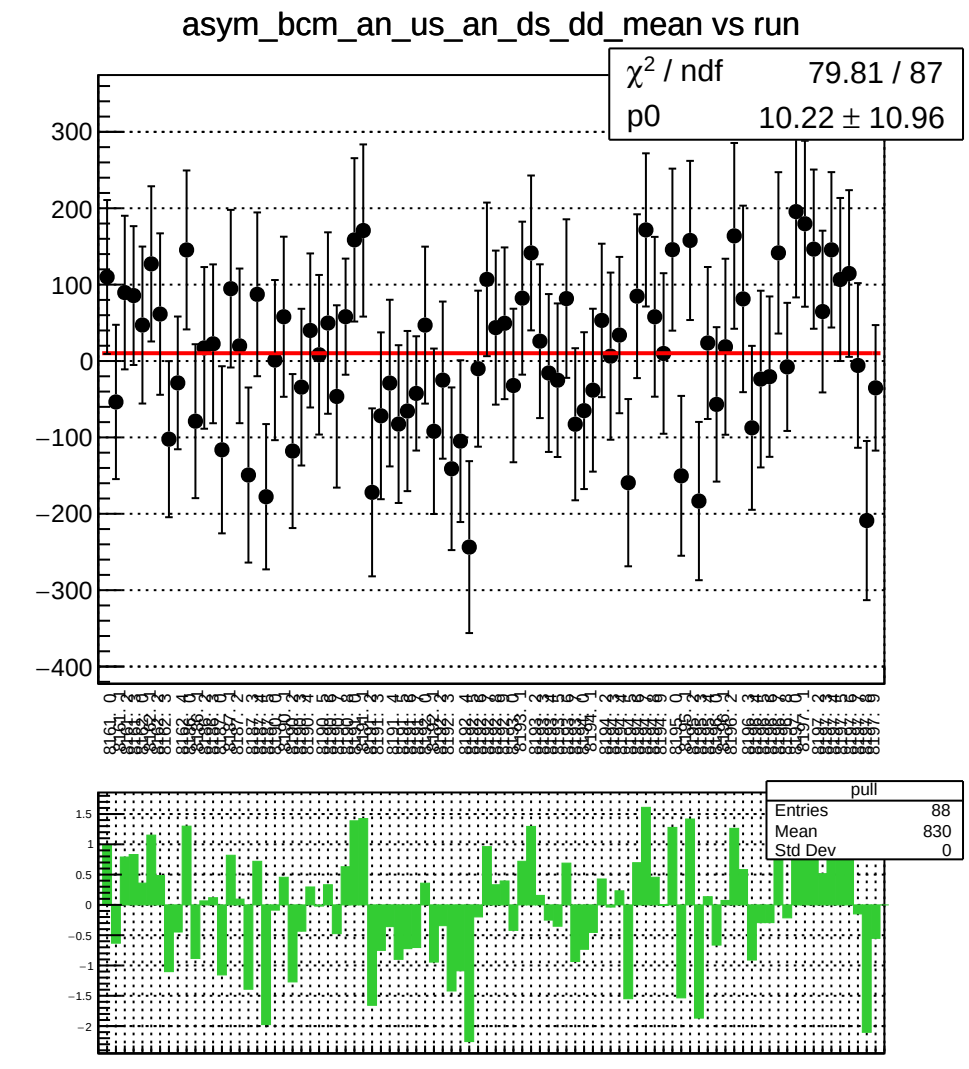

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 6206 / 87
p0 165.6 ± 0.1285
180
170
160
150
140

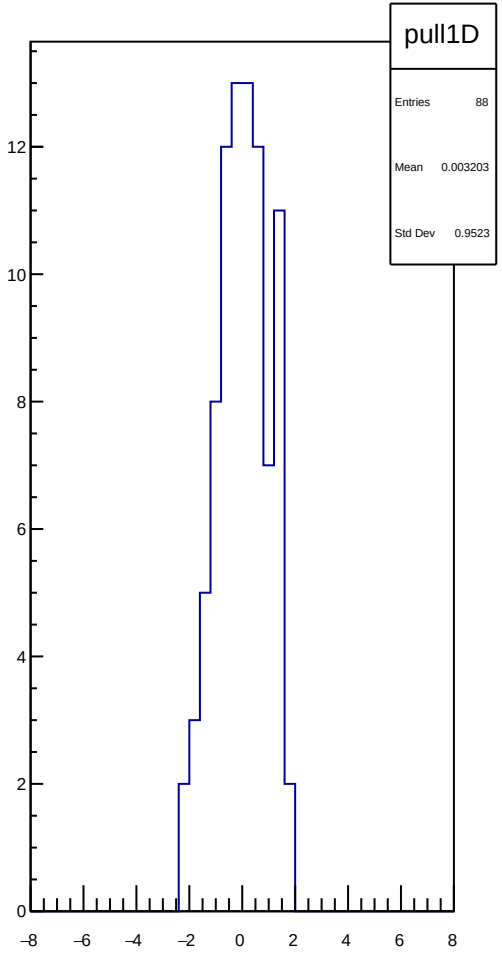

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 17.64 / 87
p0 45.85 ± 62.11
pull
Entries 88
Mean 43.04
Std Dev 0
pull1D
Entries 88
Mean −0.005627
Std Dev 0.4477


asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 5781 / 87
p0 56.6 ± 0.04392
62
60
58
56
54
52
50
48
46

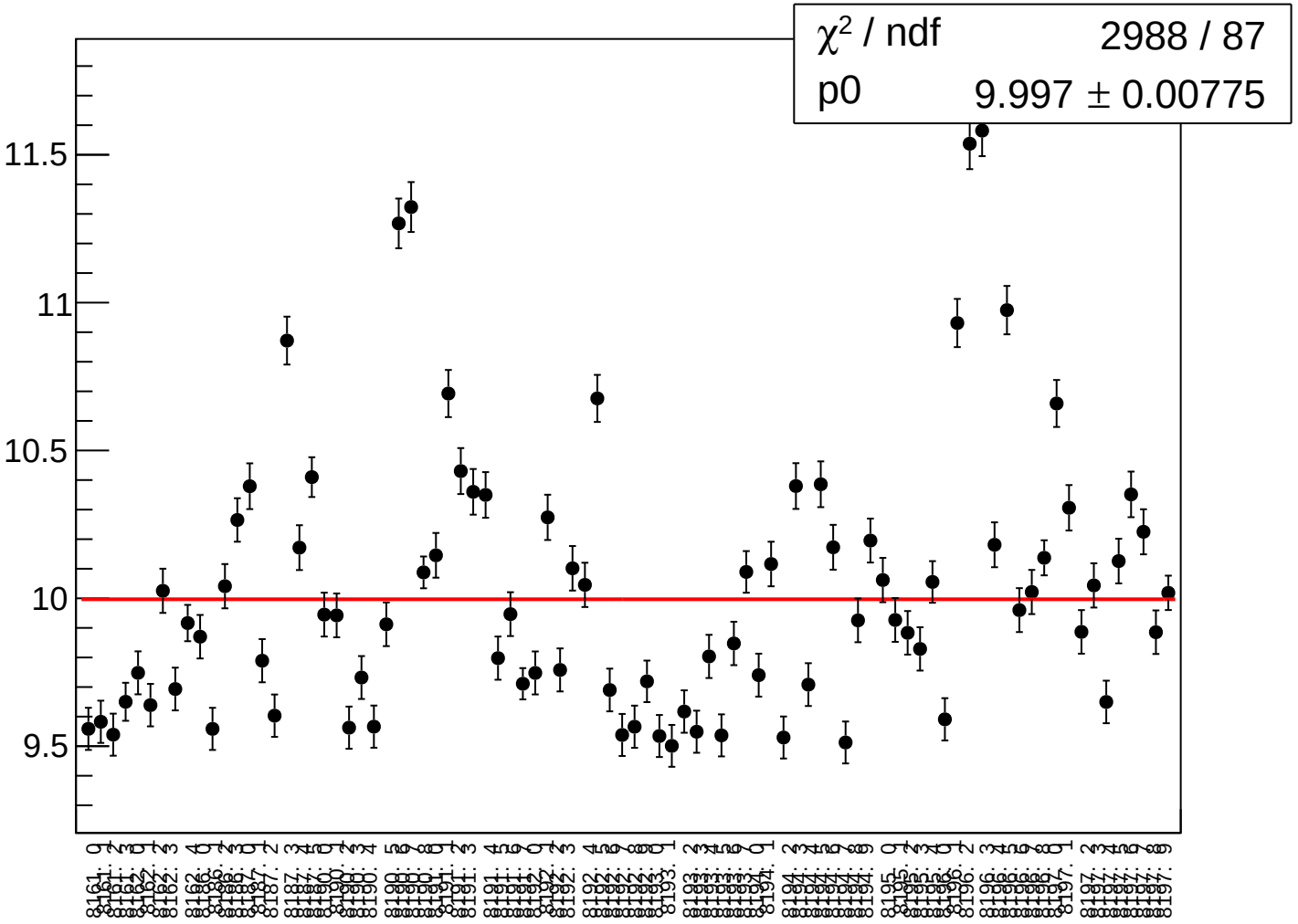

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 18.07 / 87
p0 105.2 ± 181.4
pull
Entries 88
Mean 118.5
Std Dev 0
pull1D
Entries 88
Mean −0.005941
Std Dev 0.4531

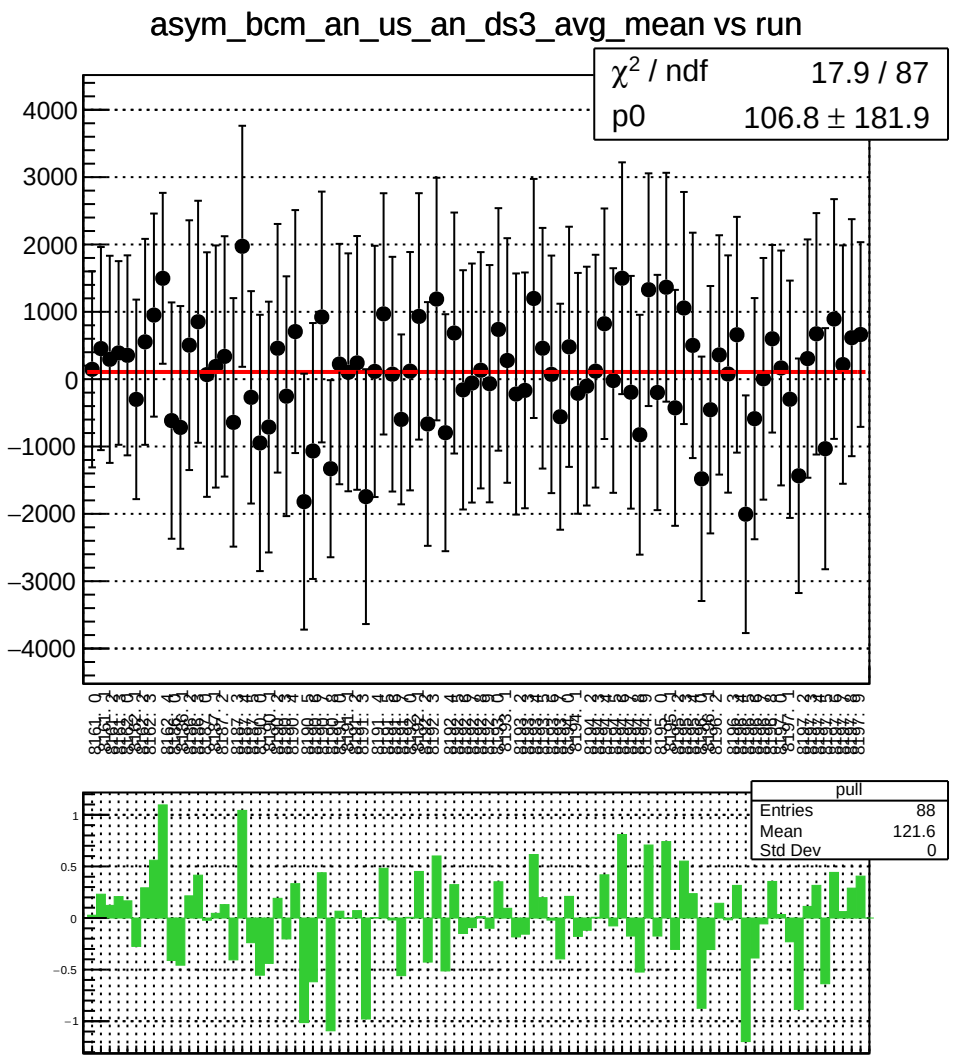

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 6225 / 87
p0 165.3 ± 0.1283
180
170
160
150
140

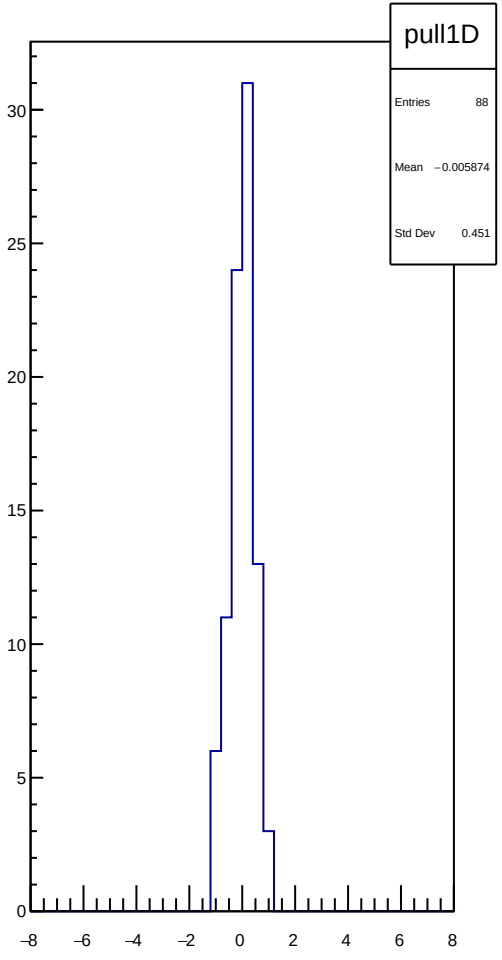

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 79.81 / 87
p0 10.22 ± 10.96
pull
Entries 88
Mean 830
Std Dev 0

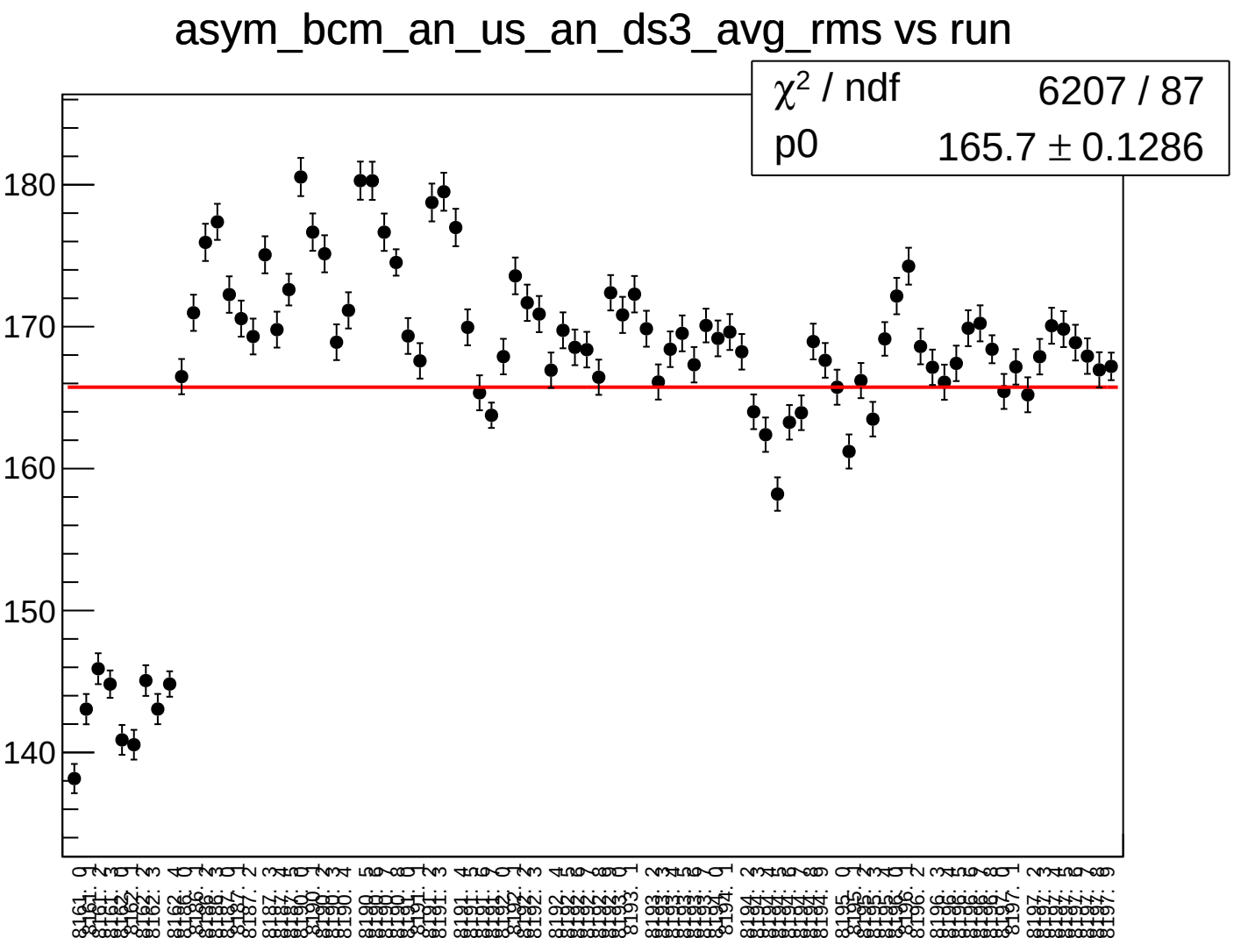

pull1D
Entries 88
Mean 0.003203
Std Dev 0.9523

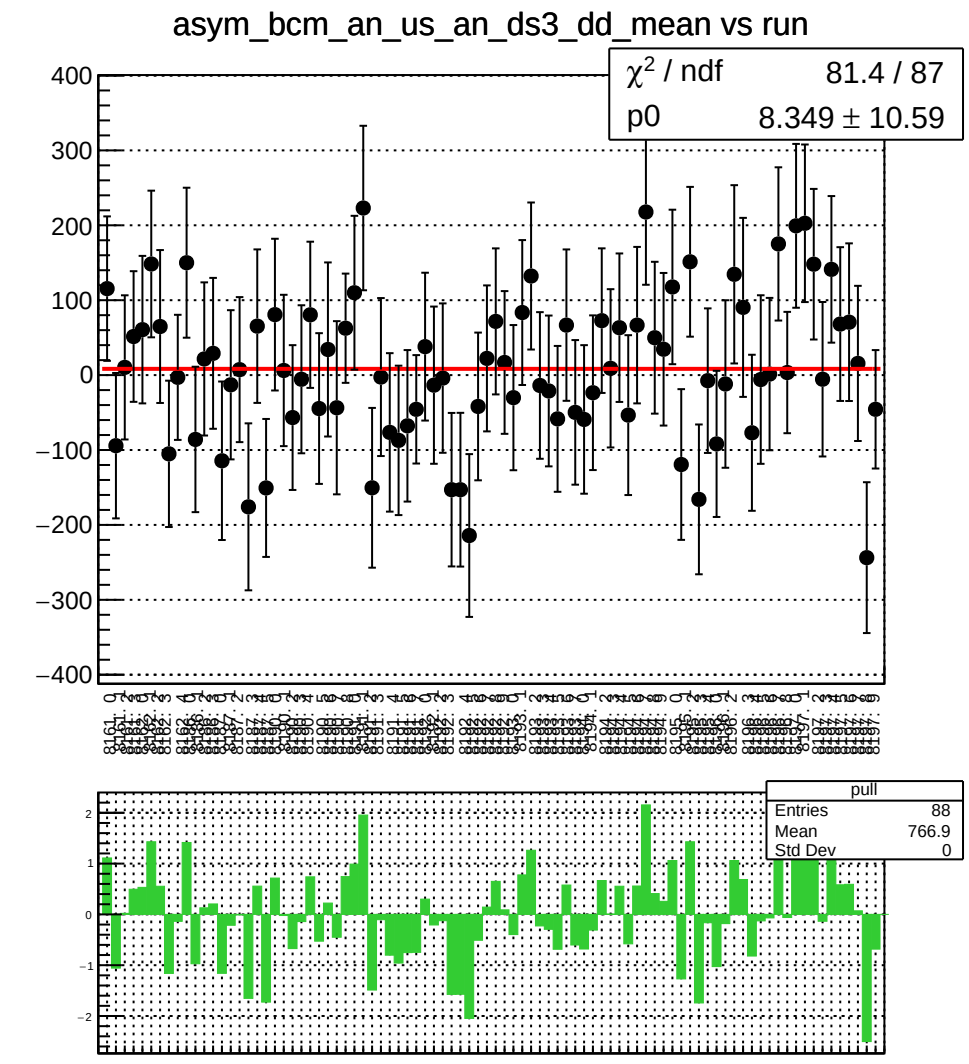
asym_bcm_an_us_an_ds_dd_rms vs run

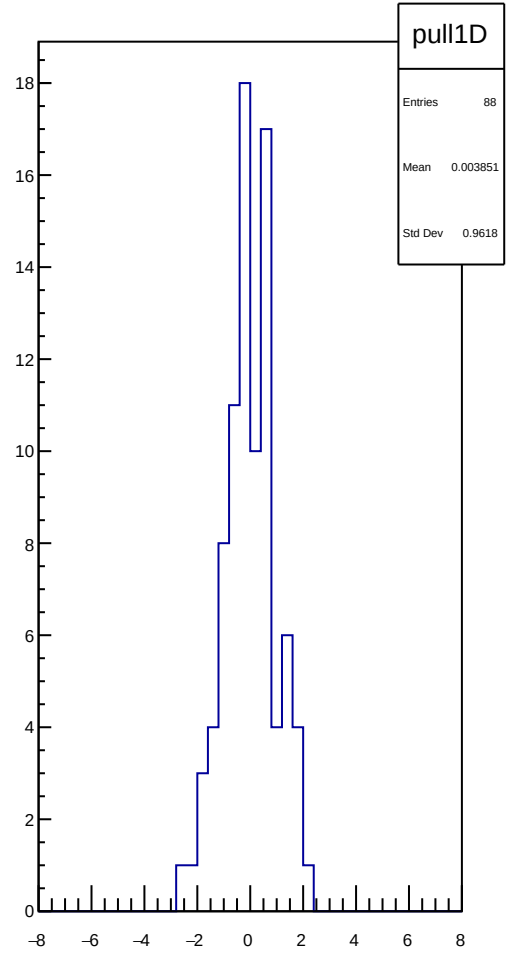


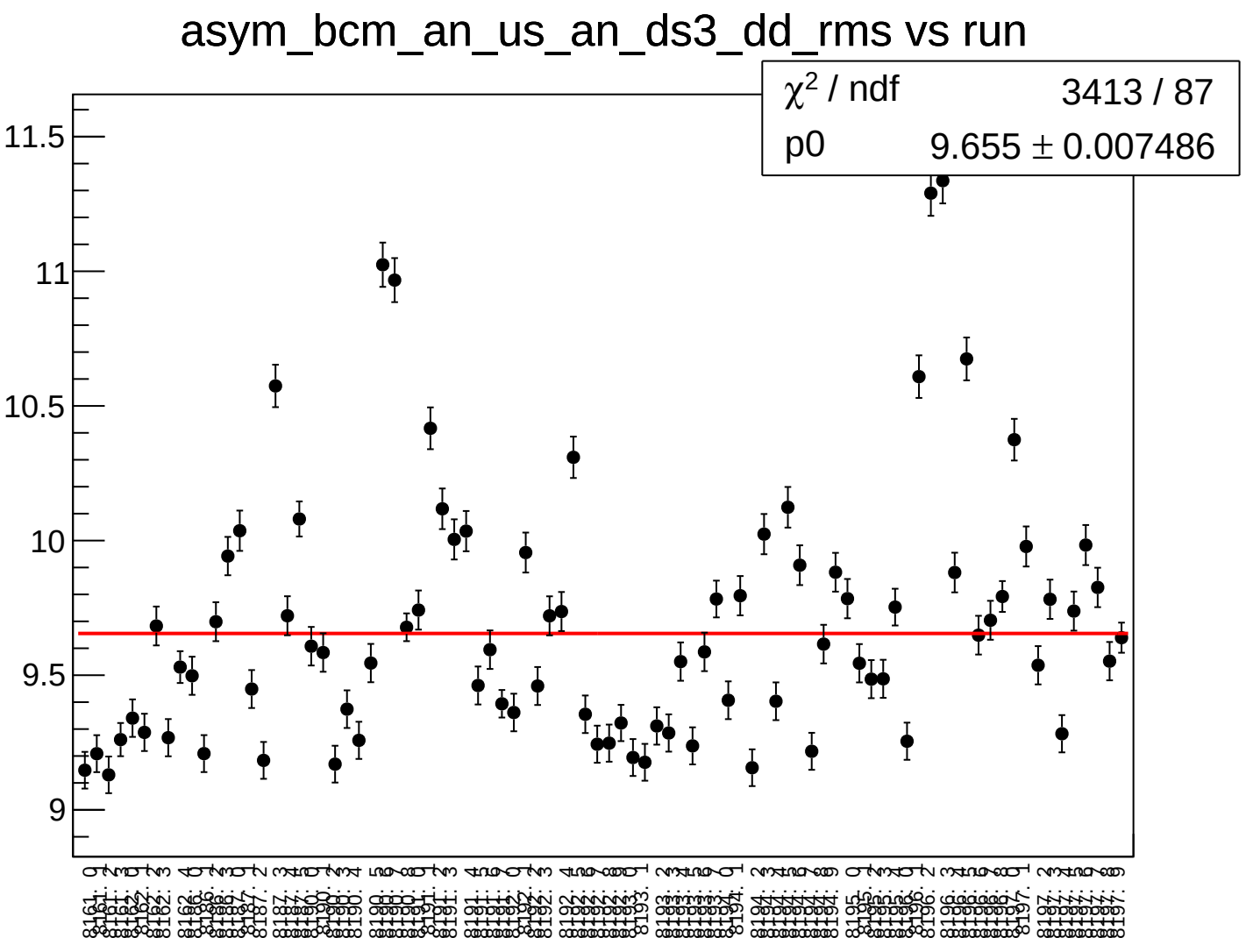

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 17.9 / 87
p0 106.8 ± 181.9
pull
Entries 88
Mean 121.6
Std Dev 0

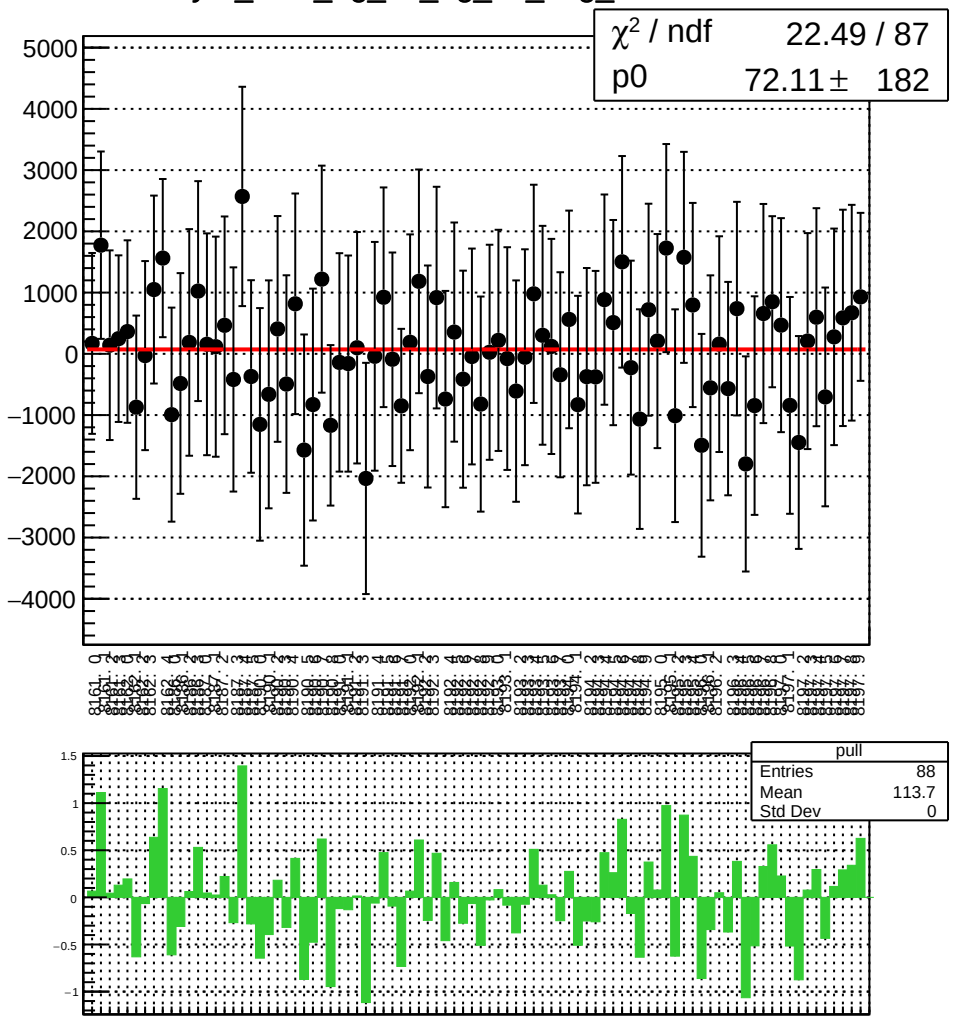

pull1D
Entries 88
Mean −0.005874
Std Dev 0.451

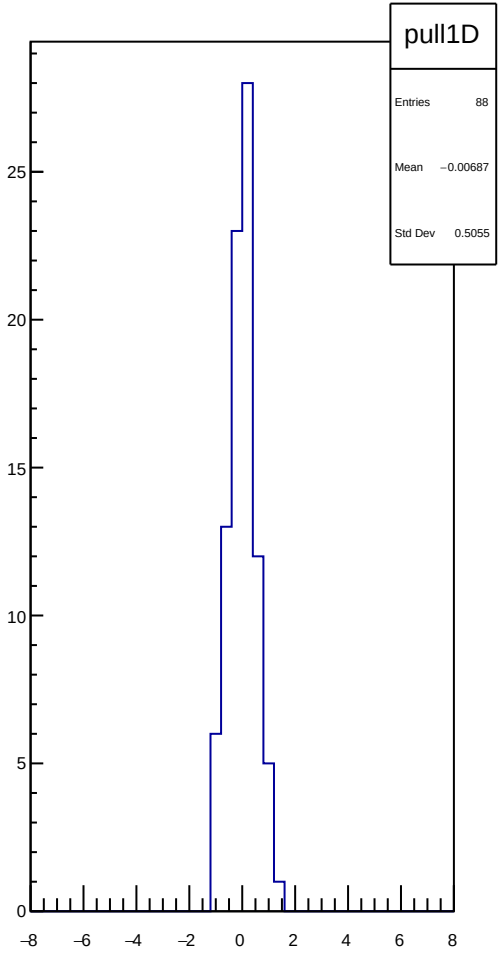

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 6207 / 87
p0 165.7 ± 0.1286
180
170
160
150
140

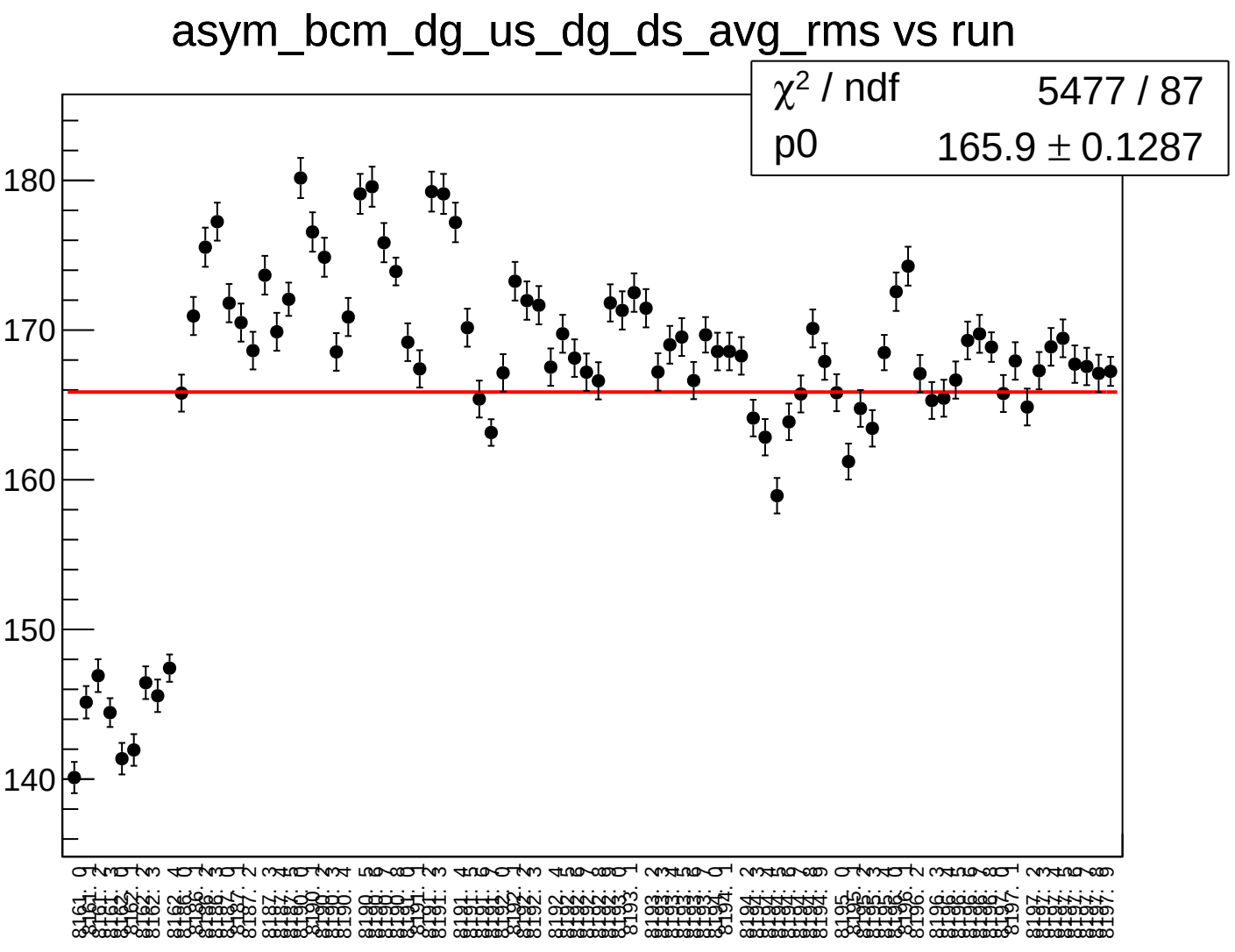

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 81.4 / 87
p0 8.349 ± 10.59
pull
Entries 88
Mean 766.9
Std Dev 0

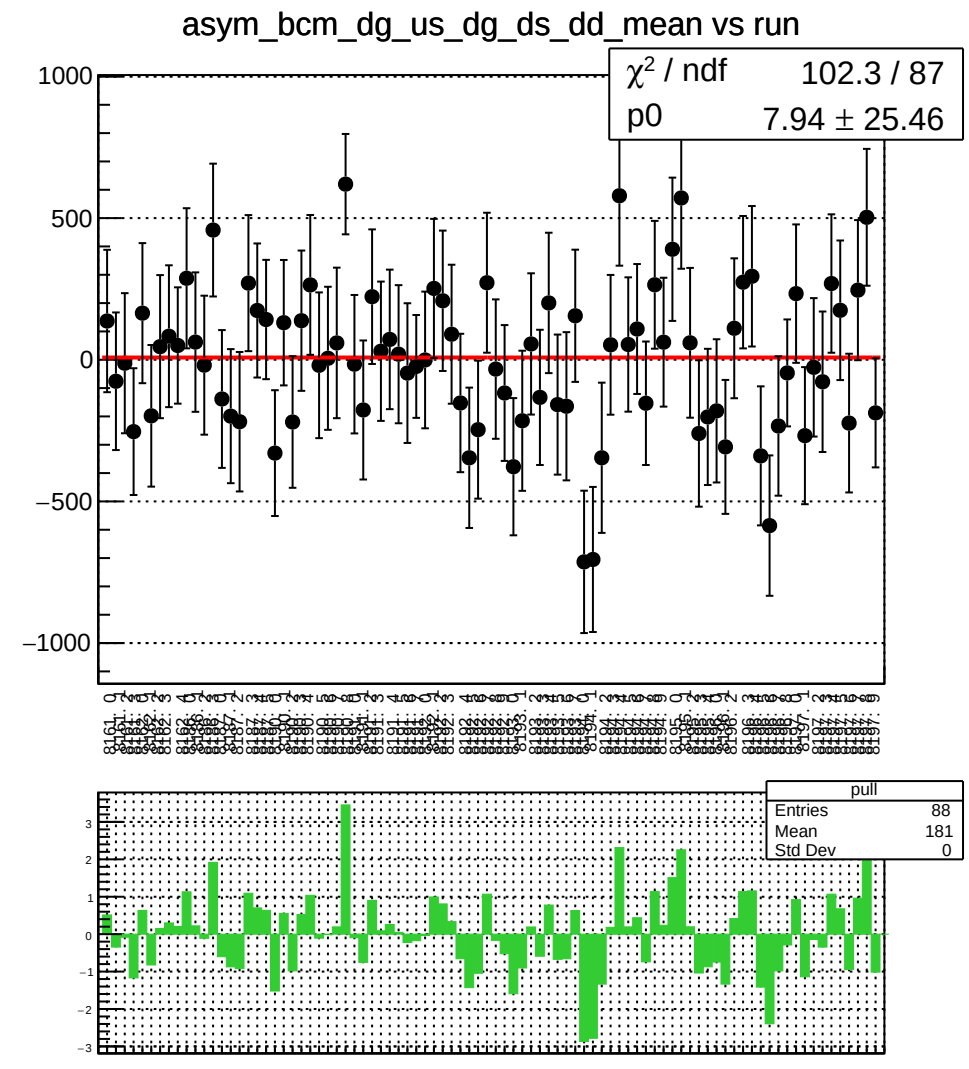

pull1D
Entries 88
Mean 0.003851
Std Dev 0.9618

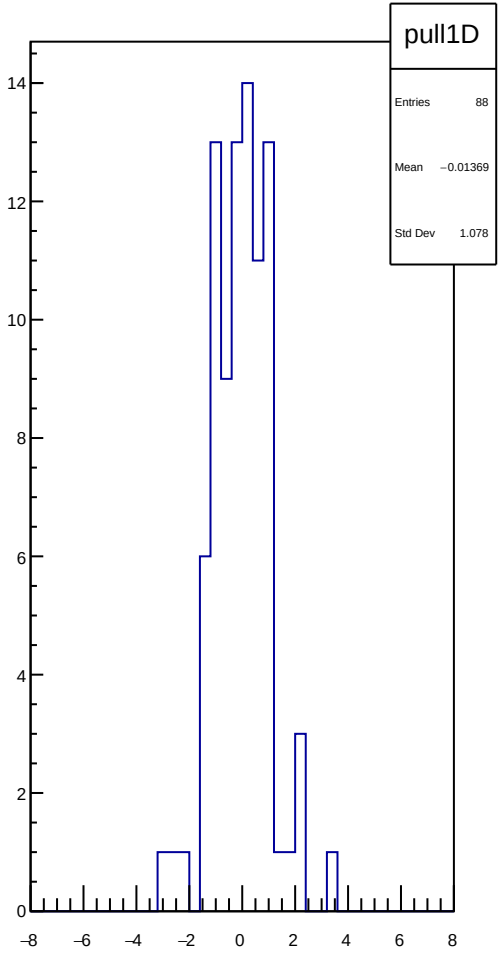

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 3413 / 87
p0 9.655 ± 0.007486
11.5
11
10.5
10
9.5
9

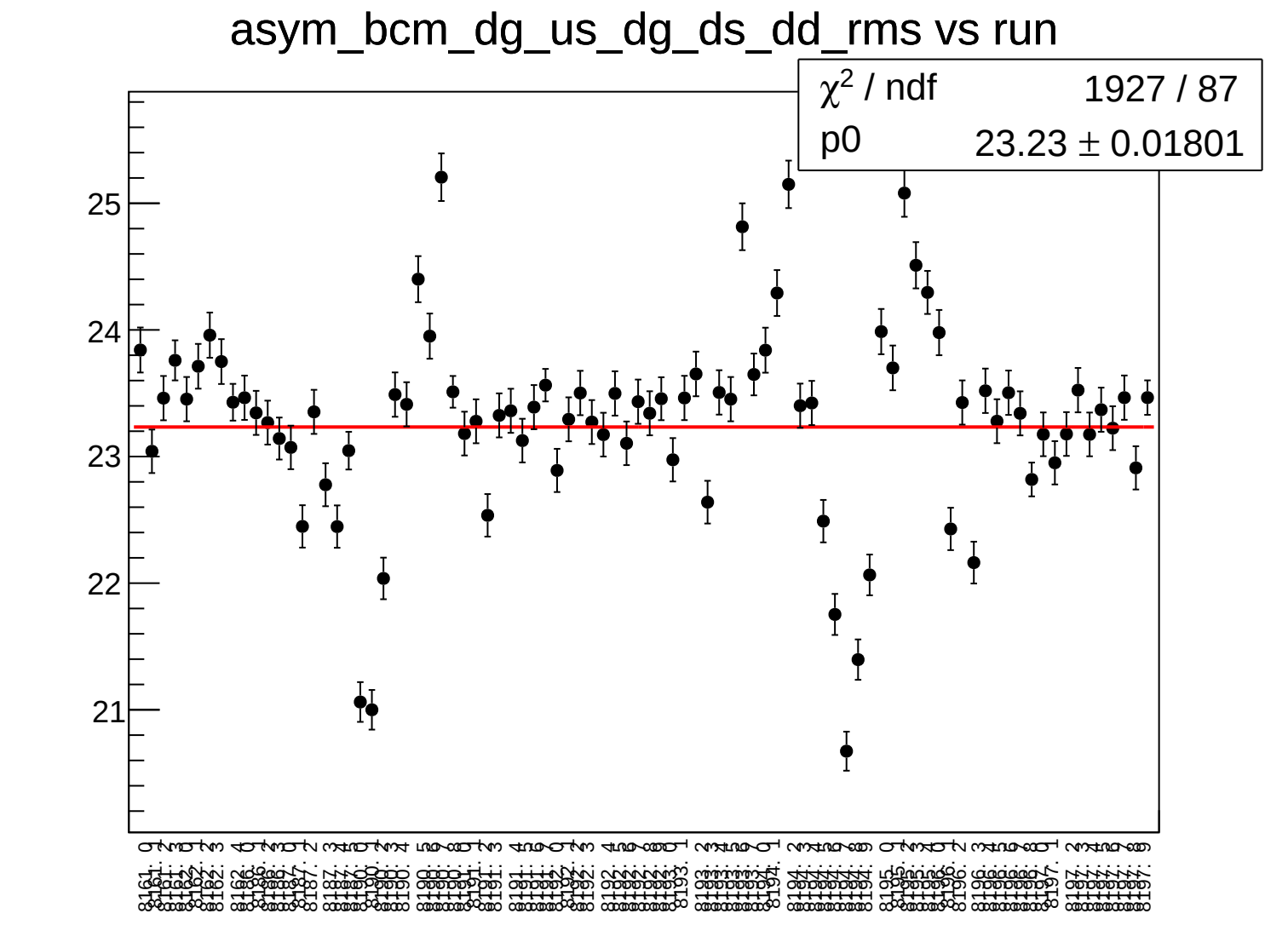

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 22.49 / 87
p0 72.11 ± 182
pull
Entries 88
Mean 113.7
Std Dev 0

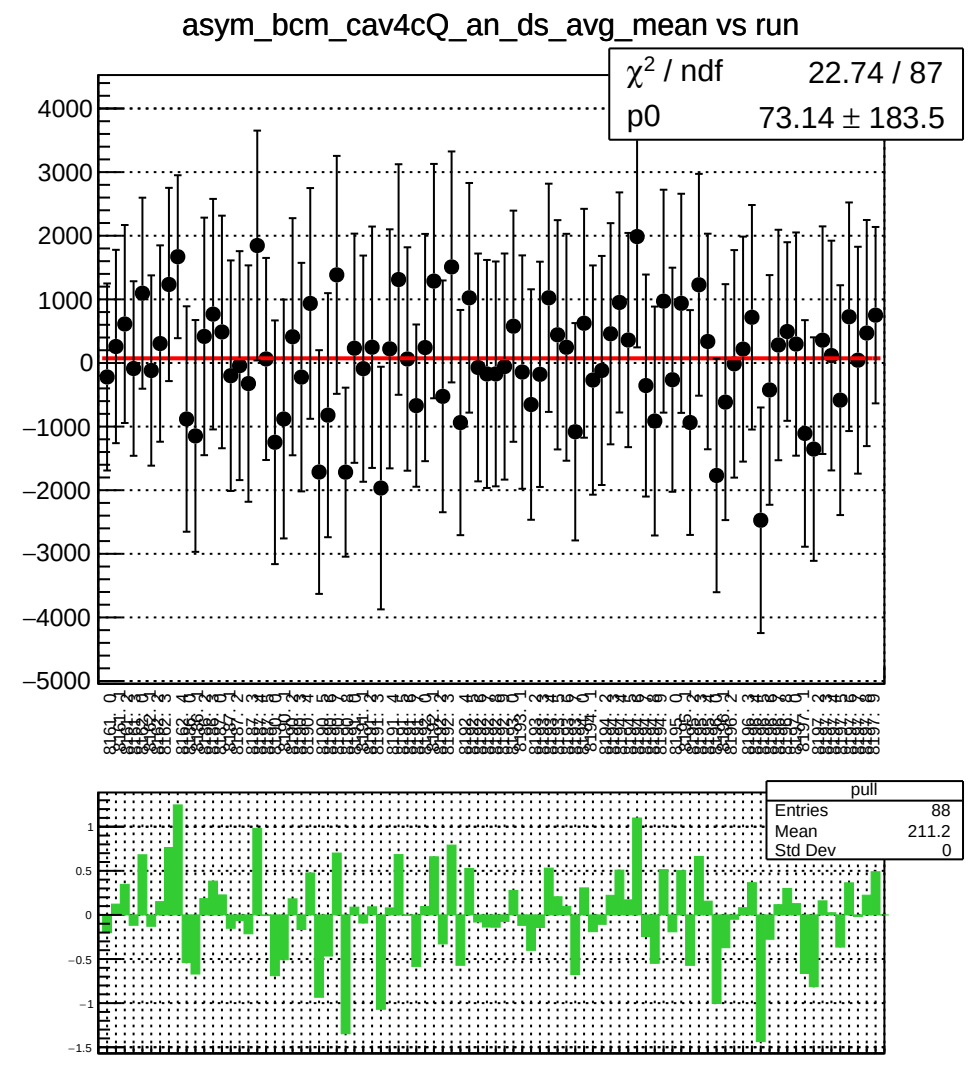

pull1D
Entries 88
Mean −0.00687
Std Dev 0.5055

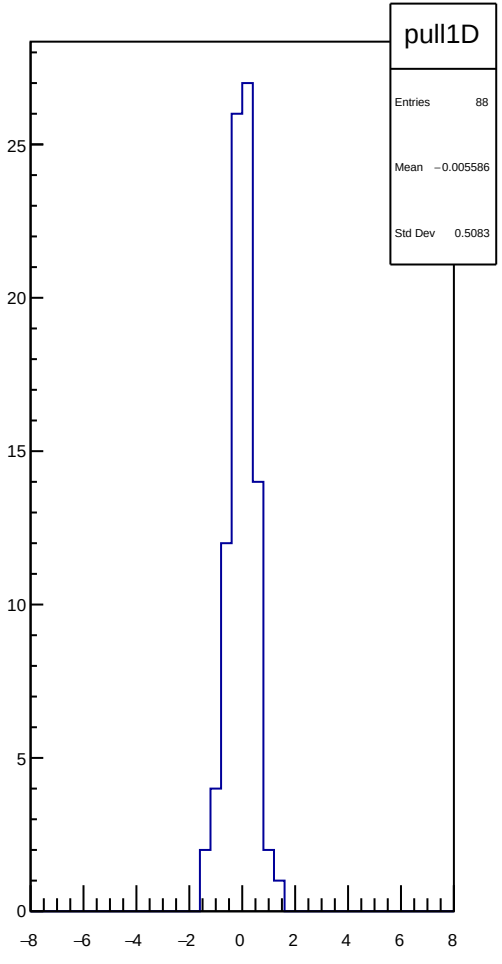

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 5477 / 87
p0 165.9 ± 0.1287
180
170
160
150
140

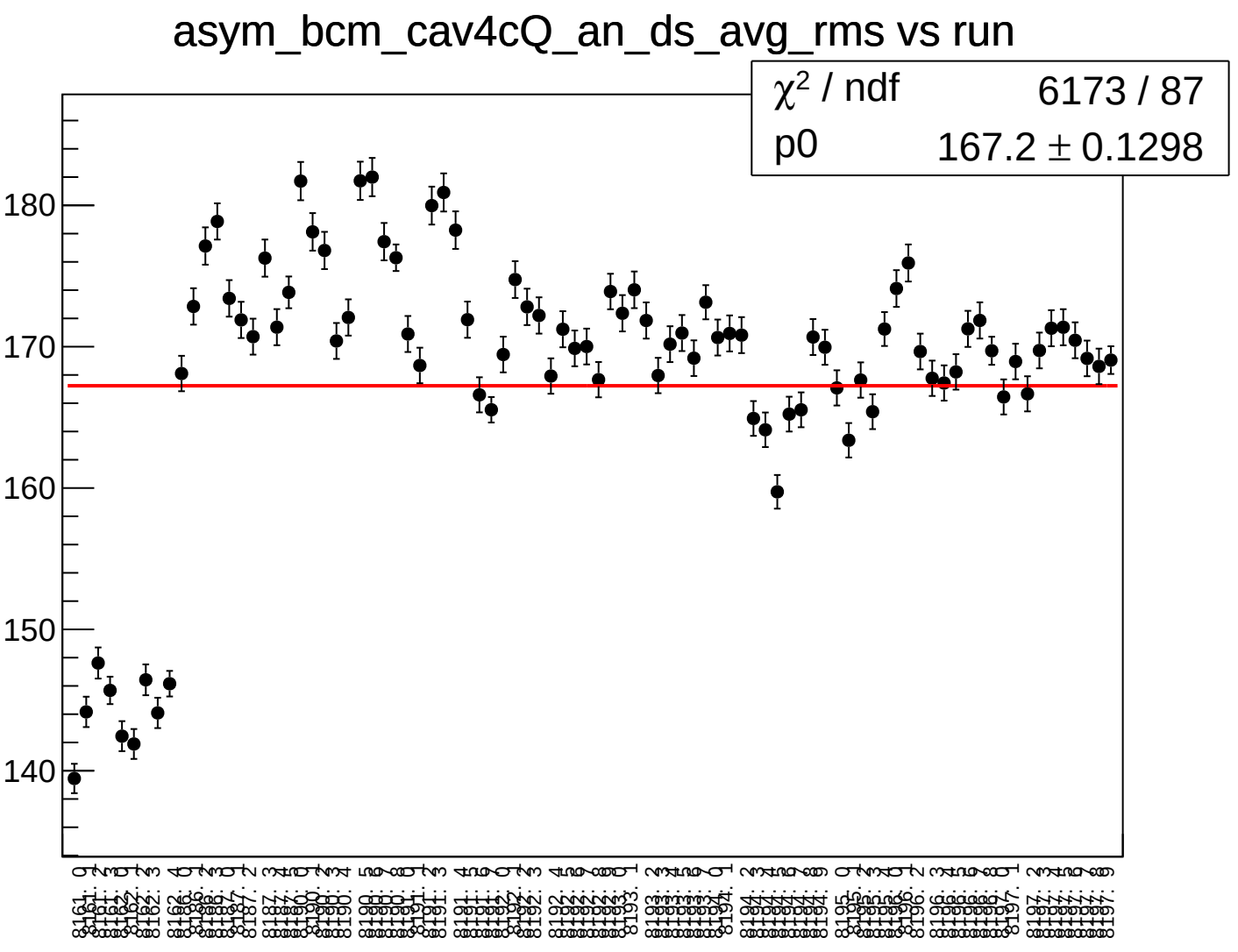

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 102.3 / 87
p0 7.94 ± 25.46
1000
500
0
−500
−1000
pull
Entries 88
Mean 181
Std Dev 0
3
2
1
0
−1
−2
−3

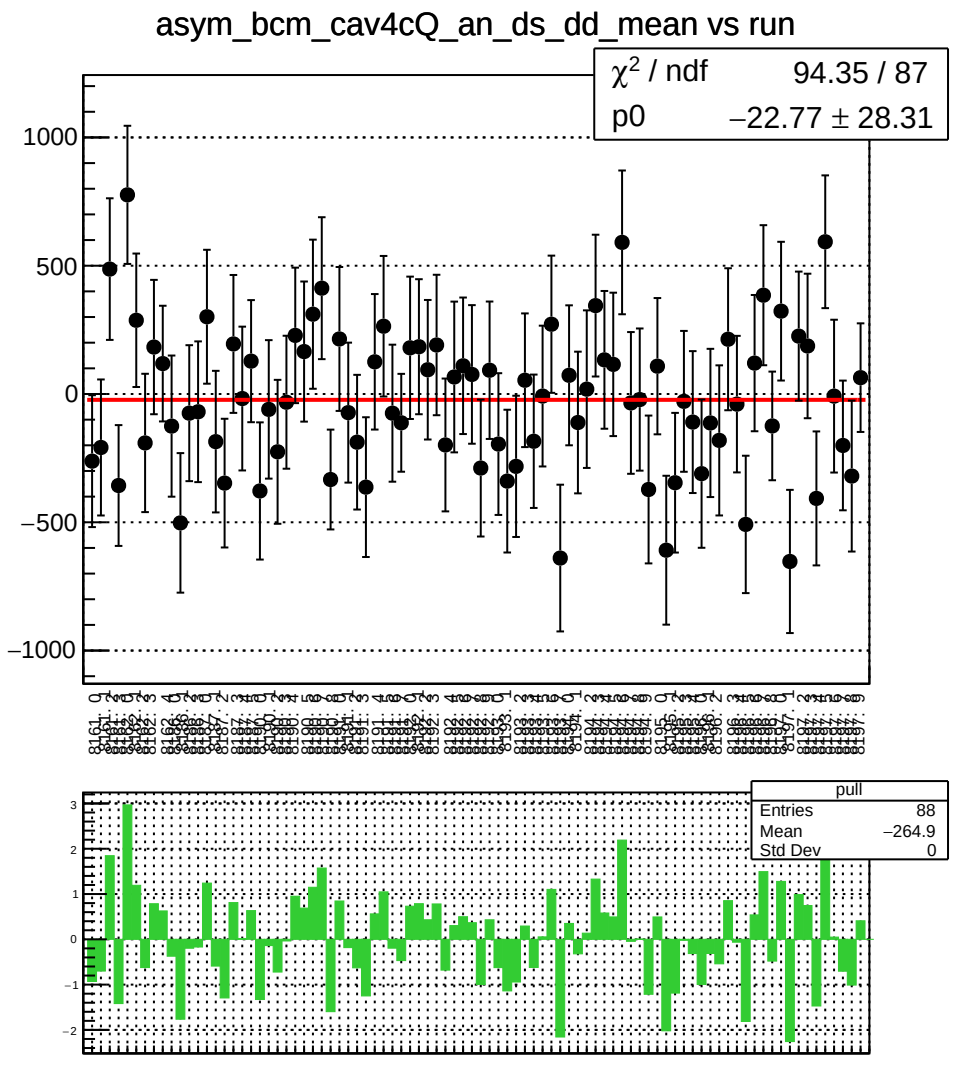

pull1D
Entries 88
Mean −0.01369
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

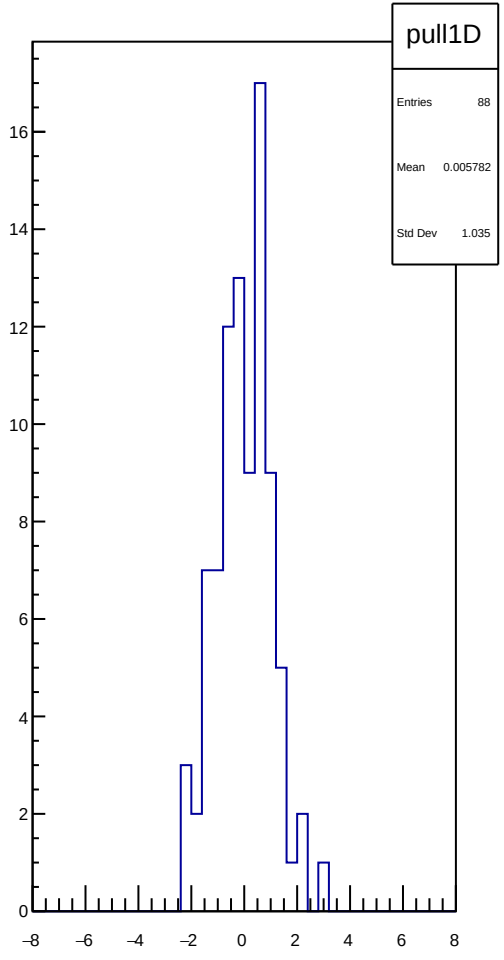

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1927 / 87
p0 23.23 ± 0.01801
25
24
23
22
21

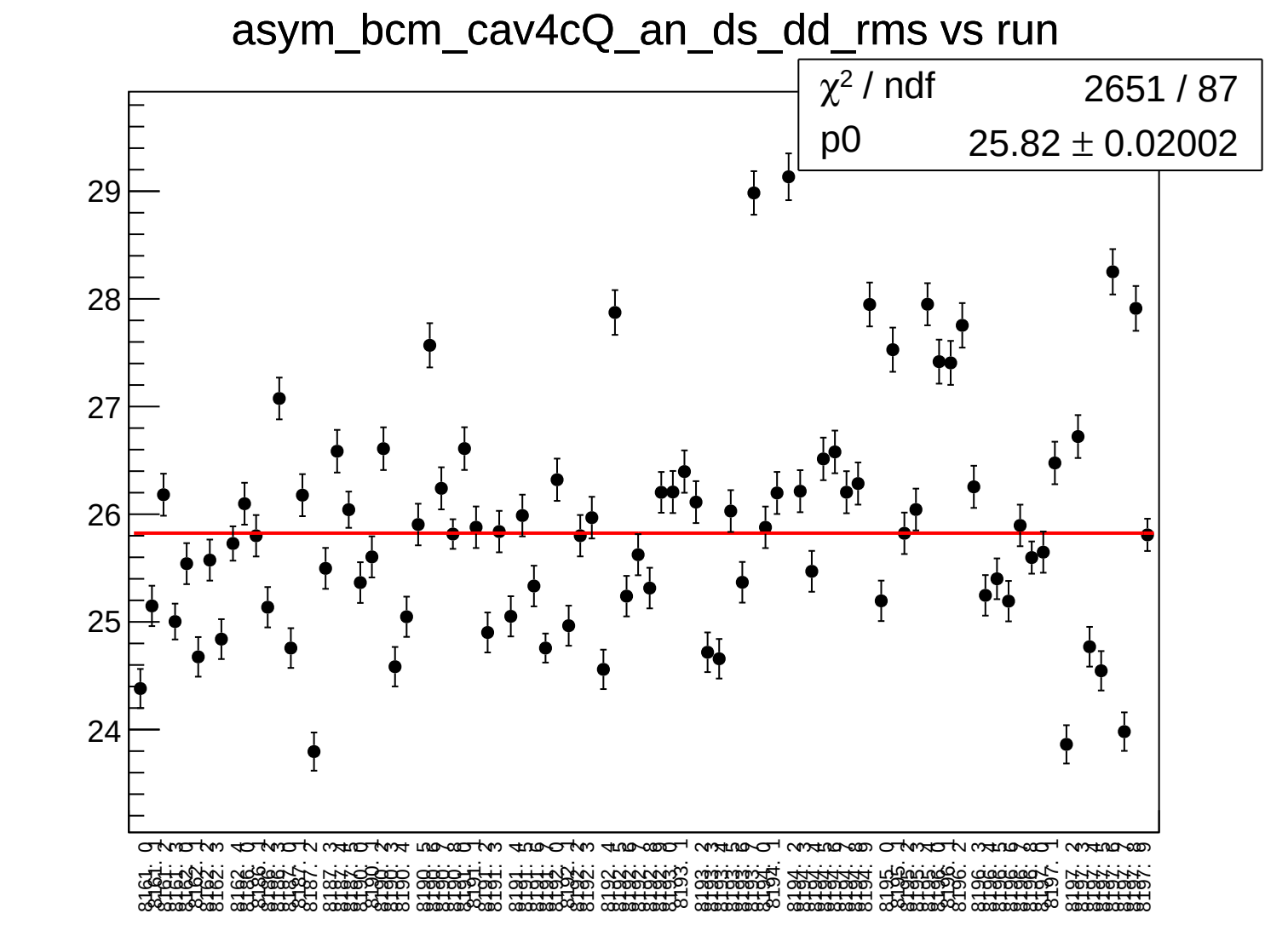

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 22.74 / 87
p0 73.14 ± 183.5
pull
Entries 88
Mean 211.2
Std Dev 0

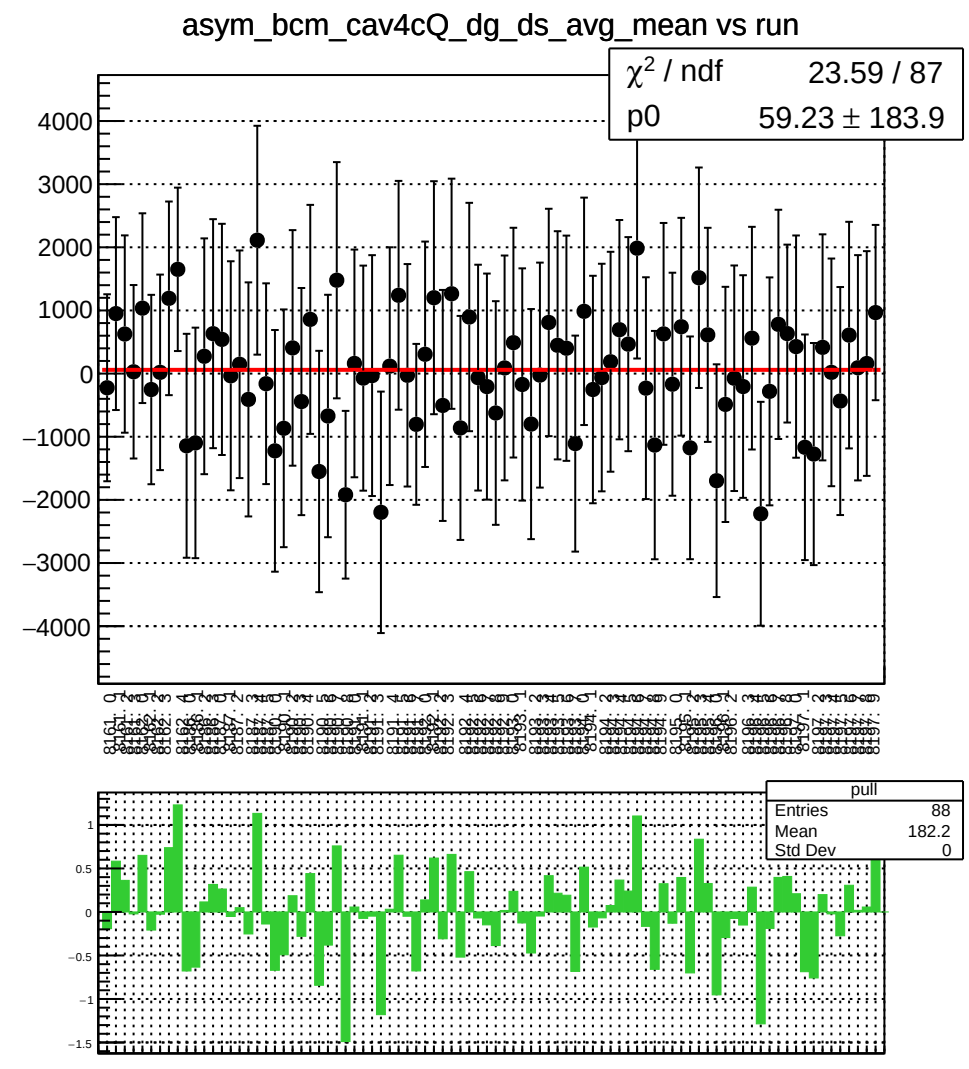

pull1D
Entries 88
Mean −0.005586
Std Dev 0.5083

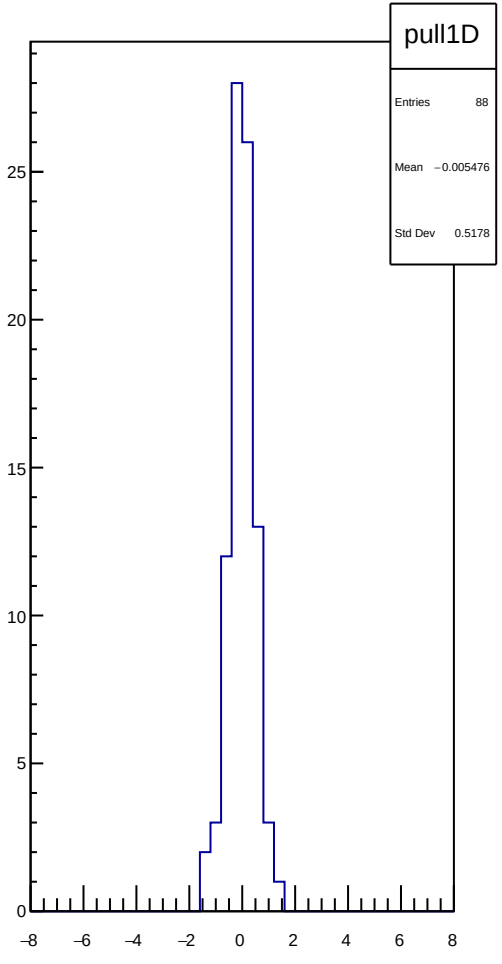

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 6173 / 87
p0 167.2 ± 0.1298
180
170
160
150
140

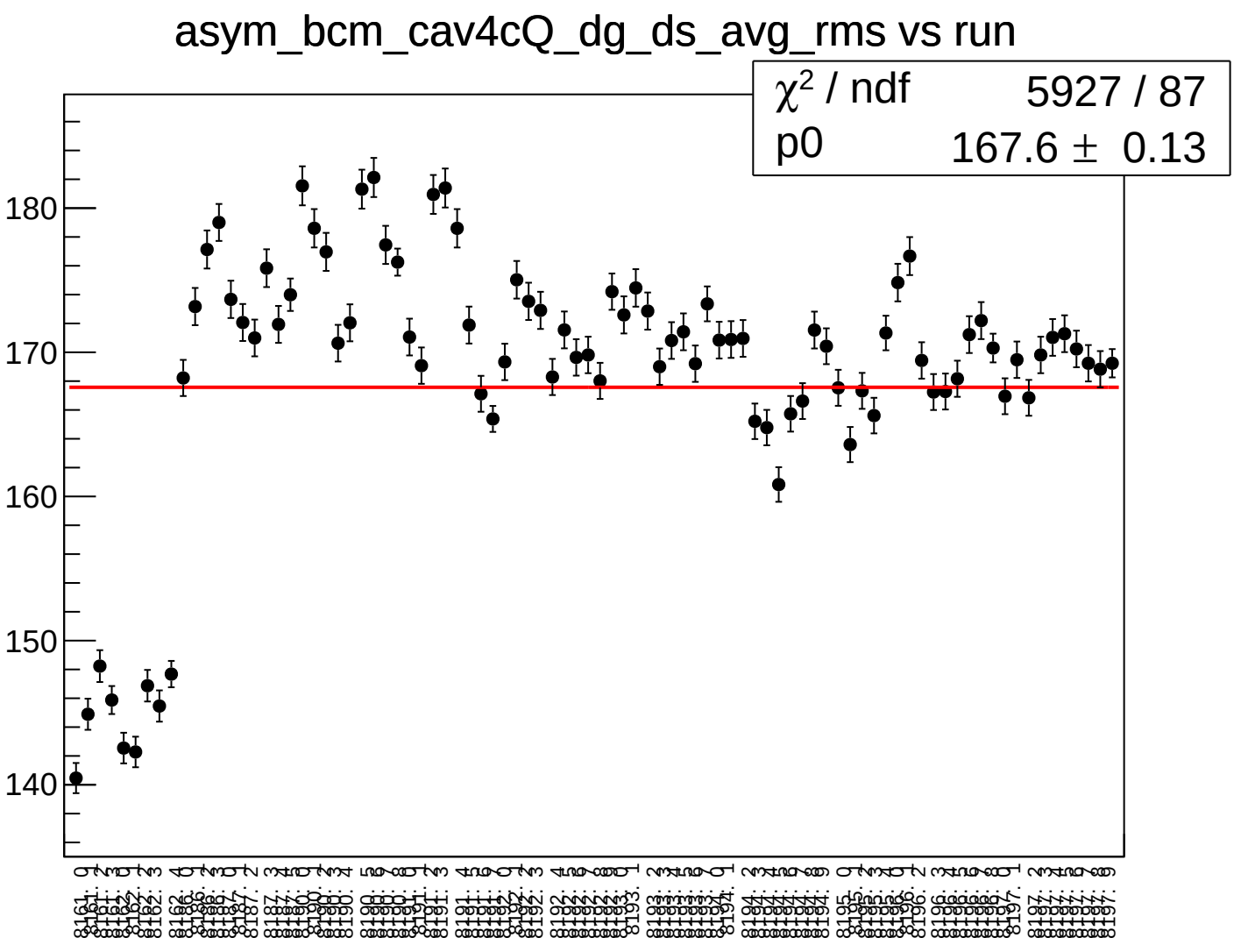

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 94.35 / 87
p0 −22.77 ± 28.31
1000
500
0
−500
−1000
pull
Entries 88
Mean −264.9
Std Dev 0
3
2
1
0
−1
−2

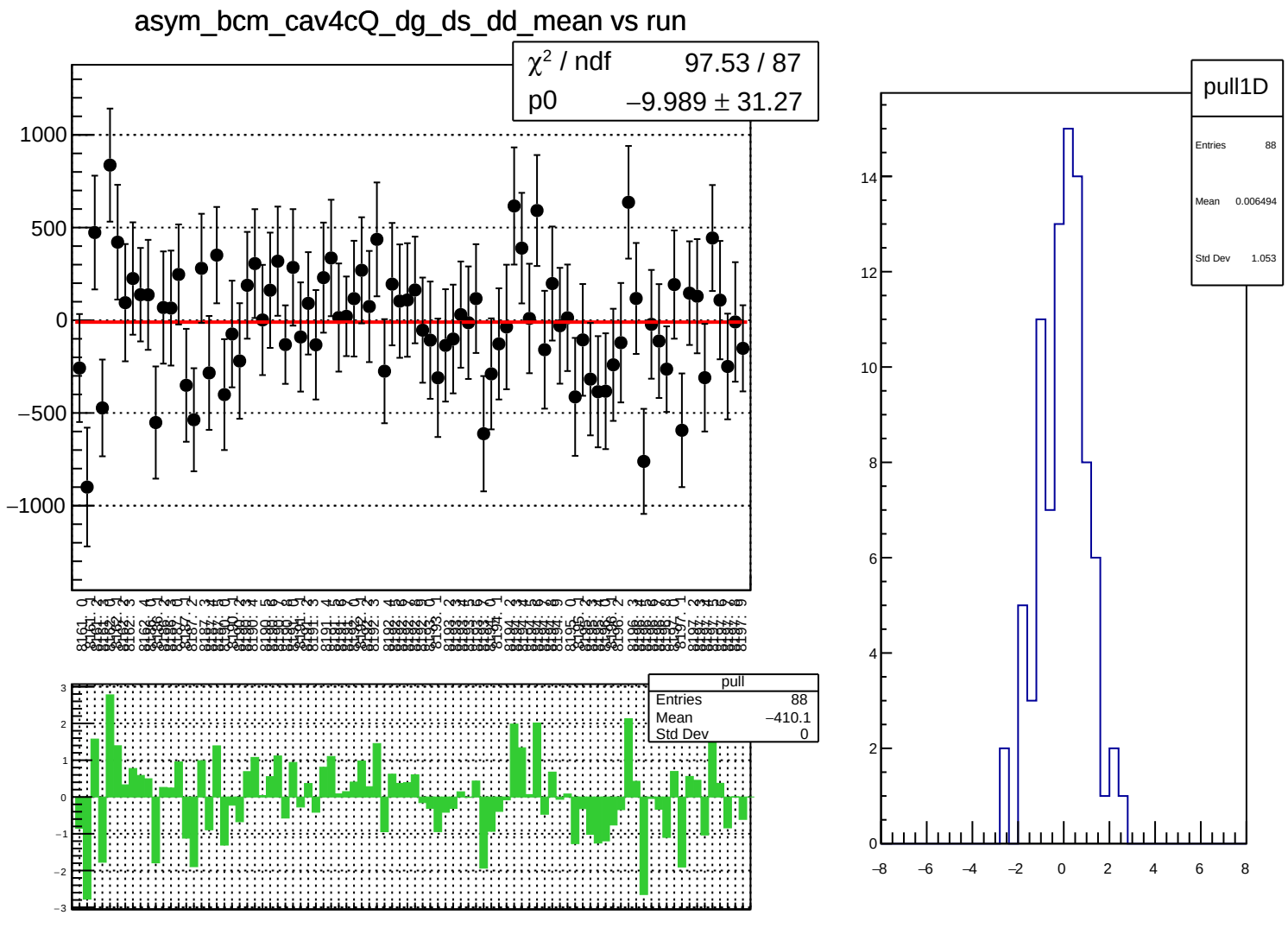

pull1D
Entries 88
Mean 0.005782
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

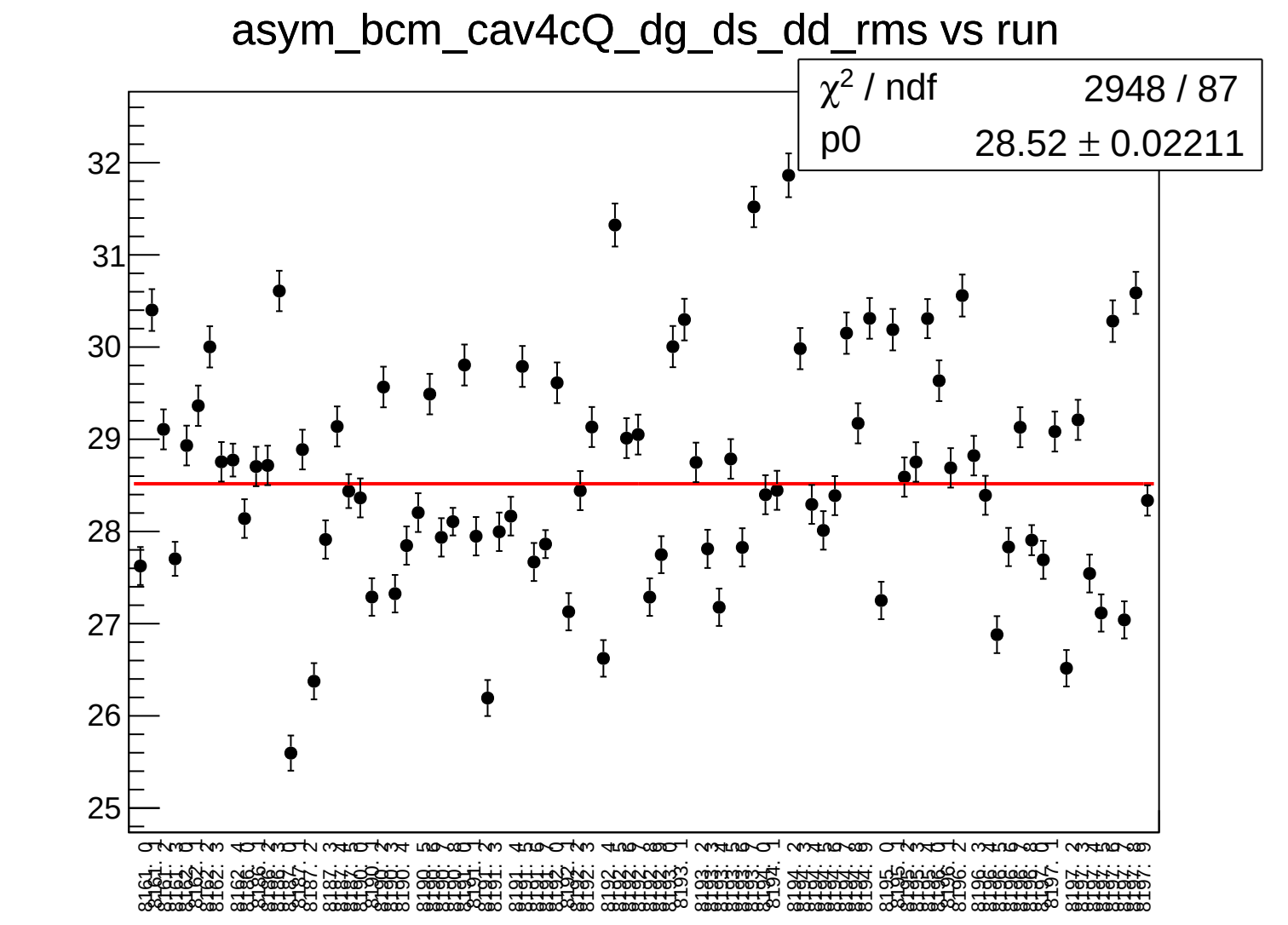

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2651 / 87
p0 25.82 ± 0.02002
29
28
27
26
25
24

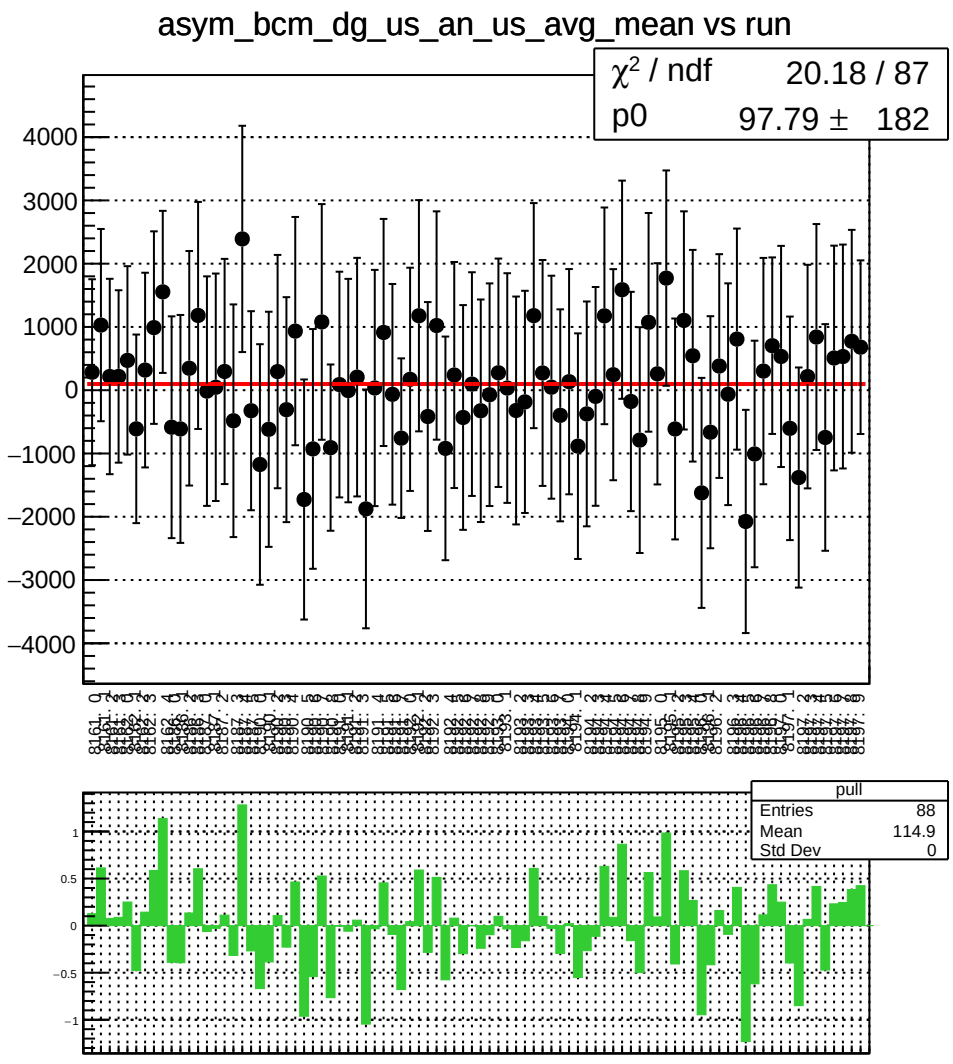

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 23.59 / 87
p0 59.23 ± 183.9
pull
Entries 88
Mean 182.2
Std Dev 0

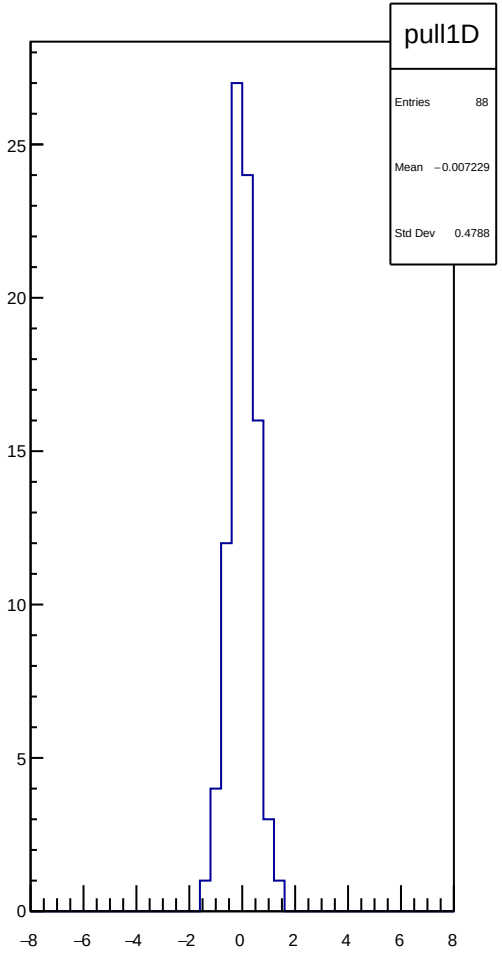

pull1D
Entries 88
Mean −0.005476
Std Dev 0.5178

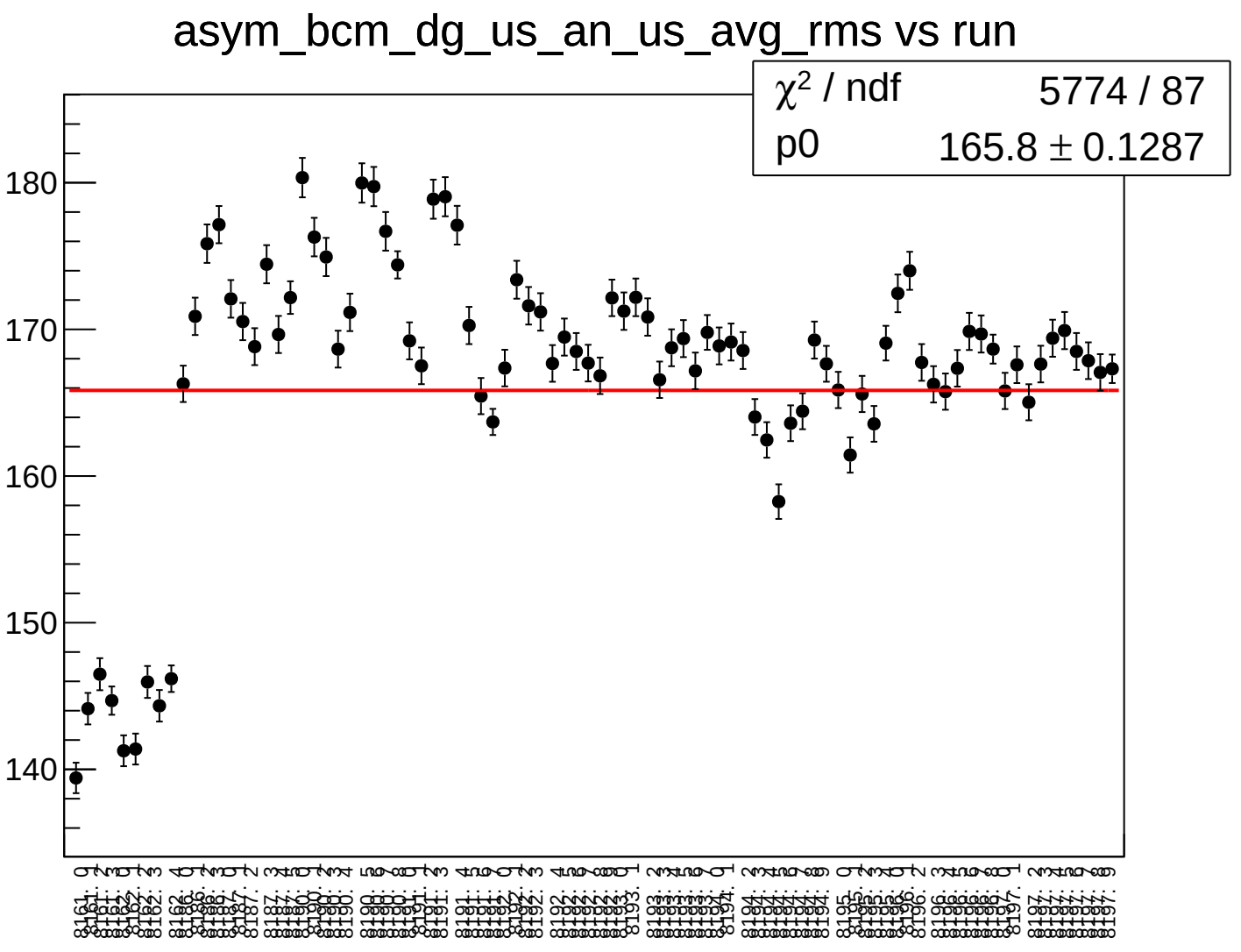

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 5927 / 87
p0 167.6 ± 0.13
180
170
160
150
140

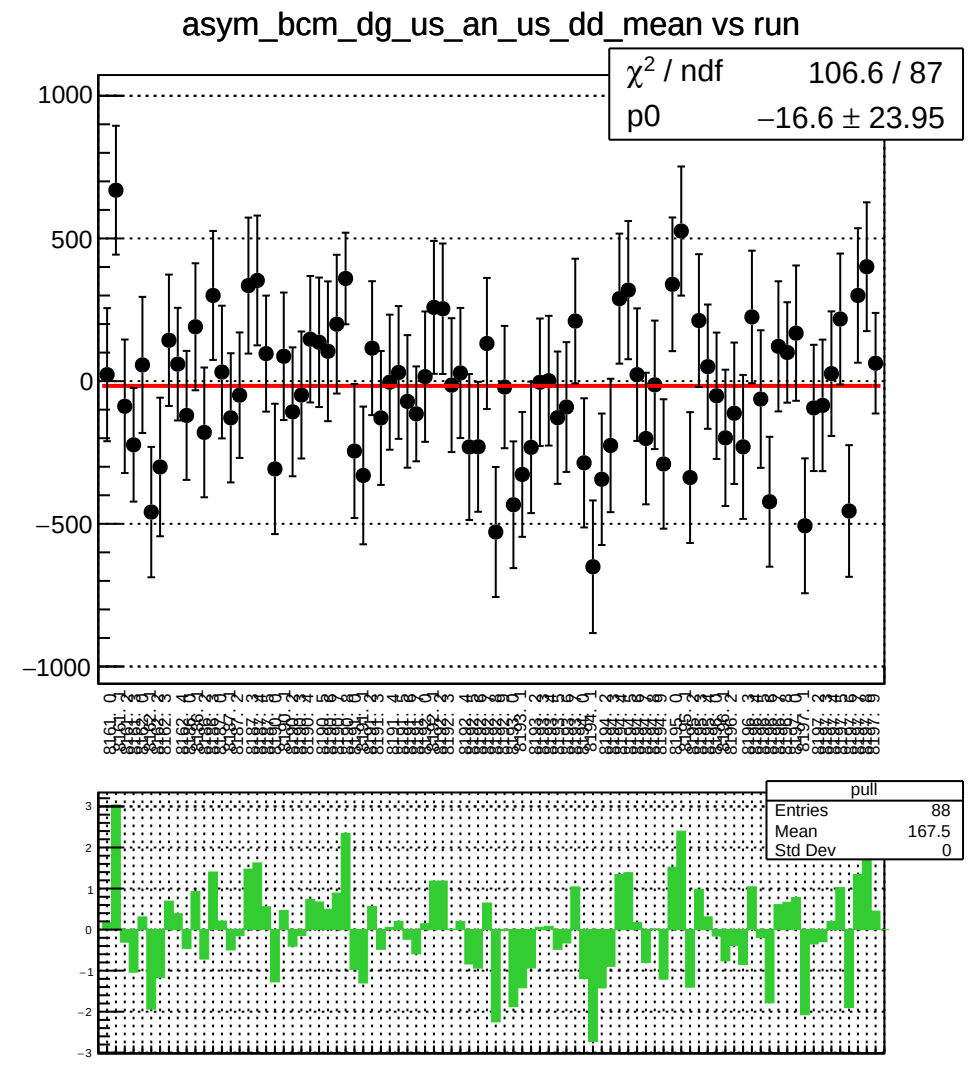

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 97.53 / 87
p0 −9.989 ± 31.27
1000
500
0
−500
−1000
pull
Entries 88
Mean −410.1
Std Dev 0
pull1D
Entries 88
Mean 0.006494
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

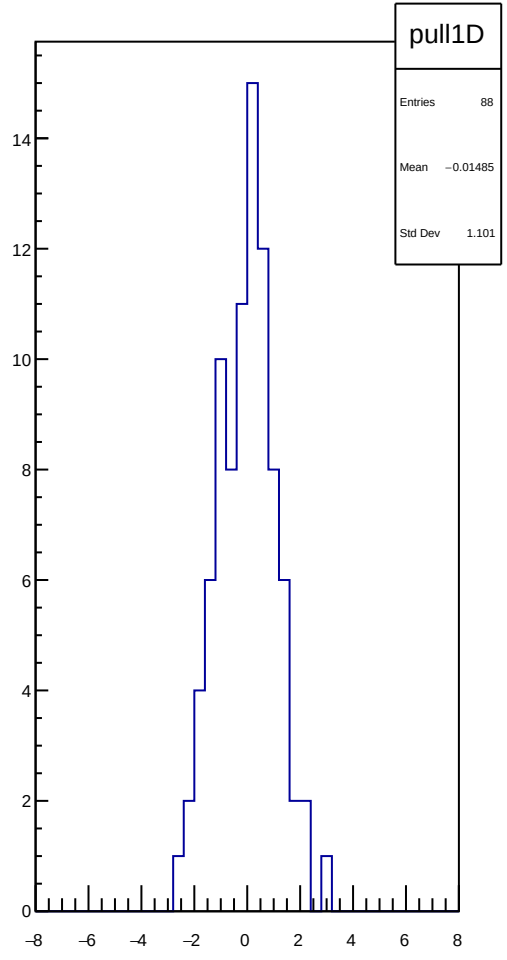

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2948 / 87
p0 28.52 ± 0.02211
32
31
30
29
28
27
26
25

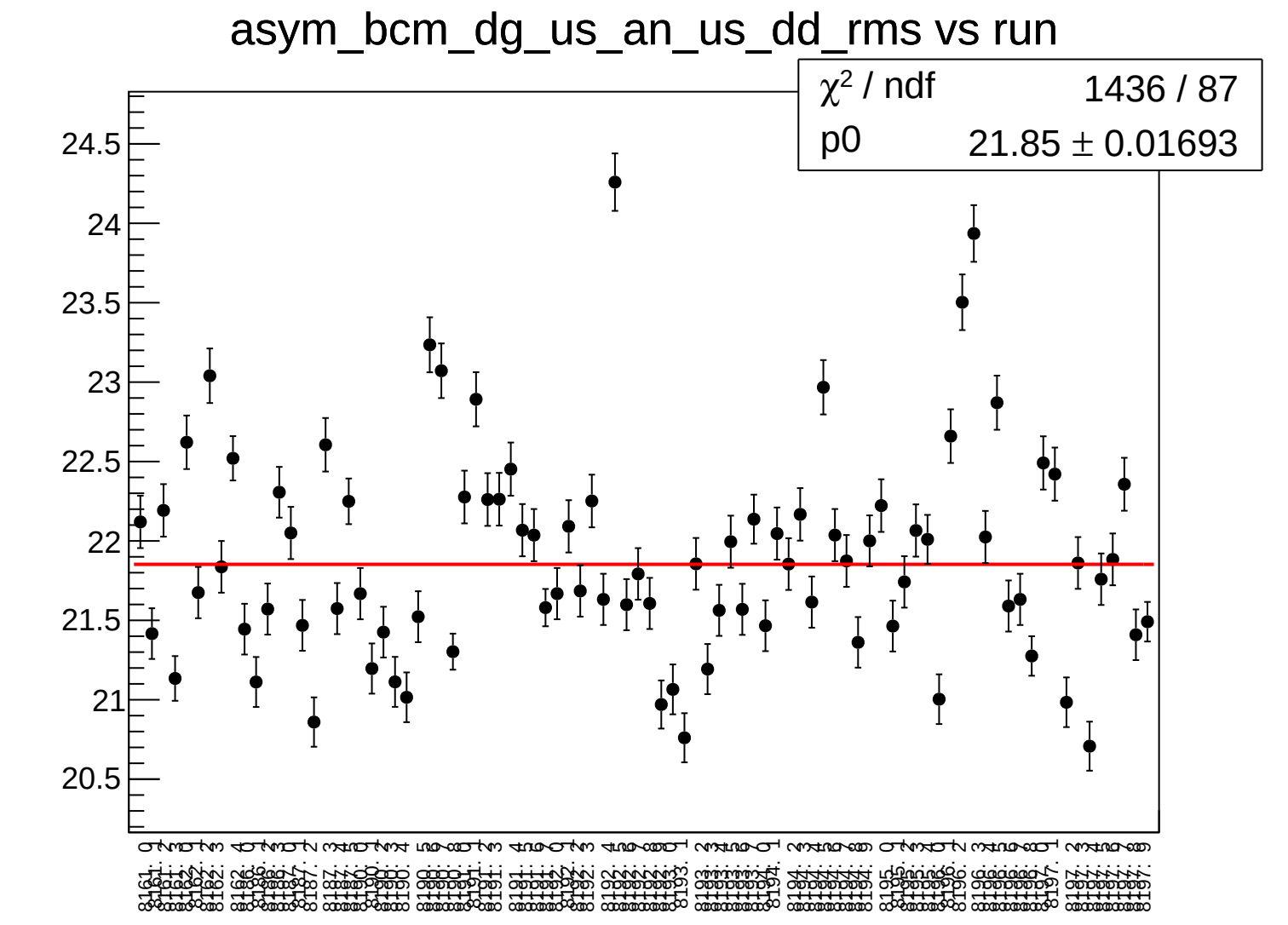

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 20.18 / 87
p0 97.79 ± 182
pull
Entries 88
Mean 114.9
Std Dev 0

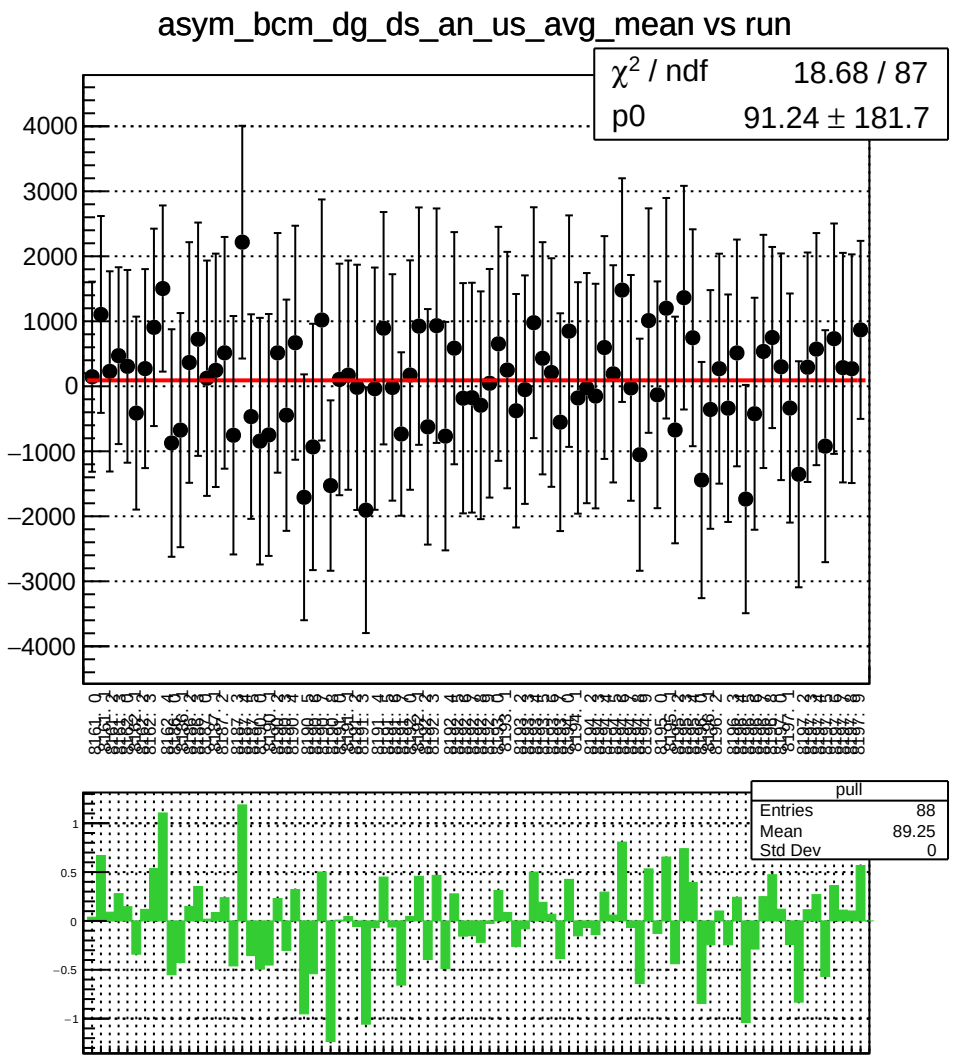

pull1D
Entries 88
Mean −0.007229
Std Dev 0.4788

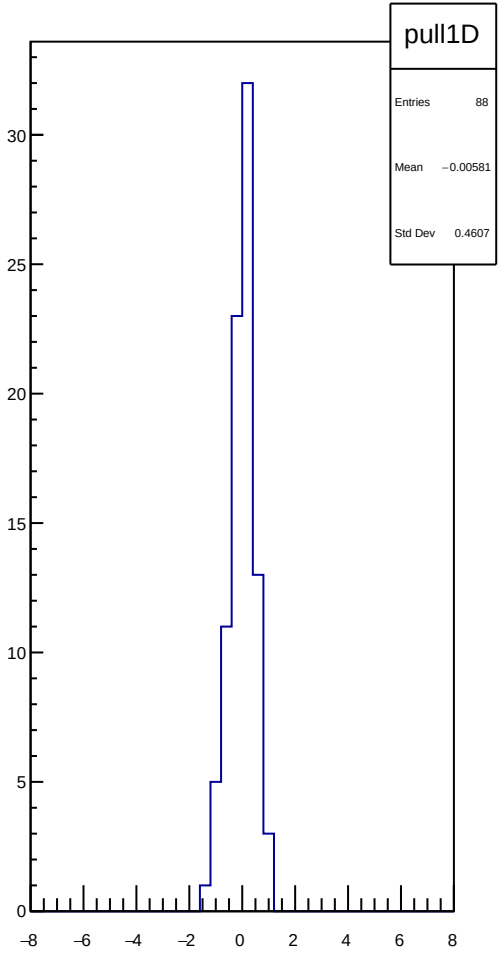

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 5774 / 87
p0 165.8 ± 0.1287
180
170
160
150
140

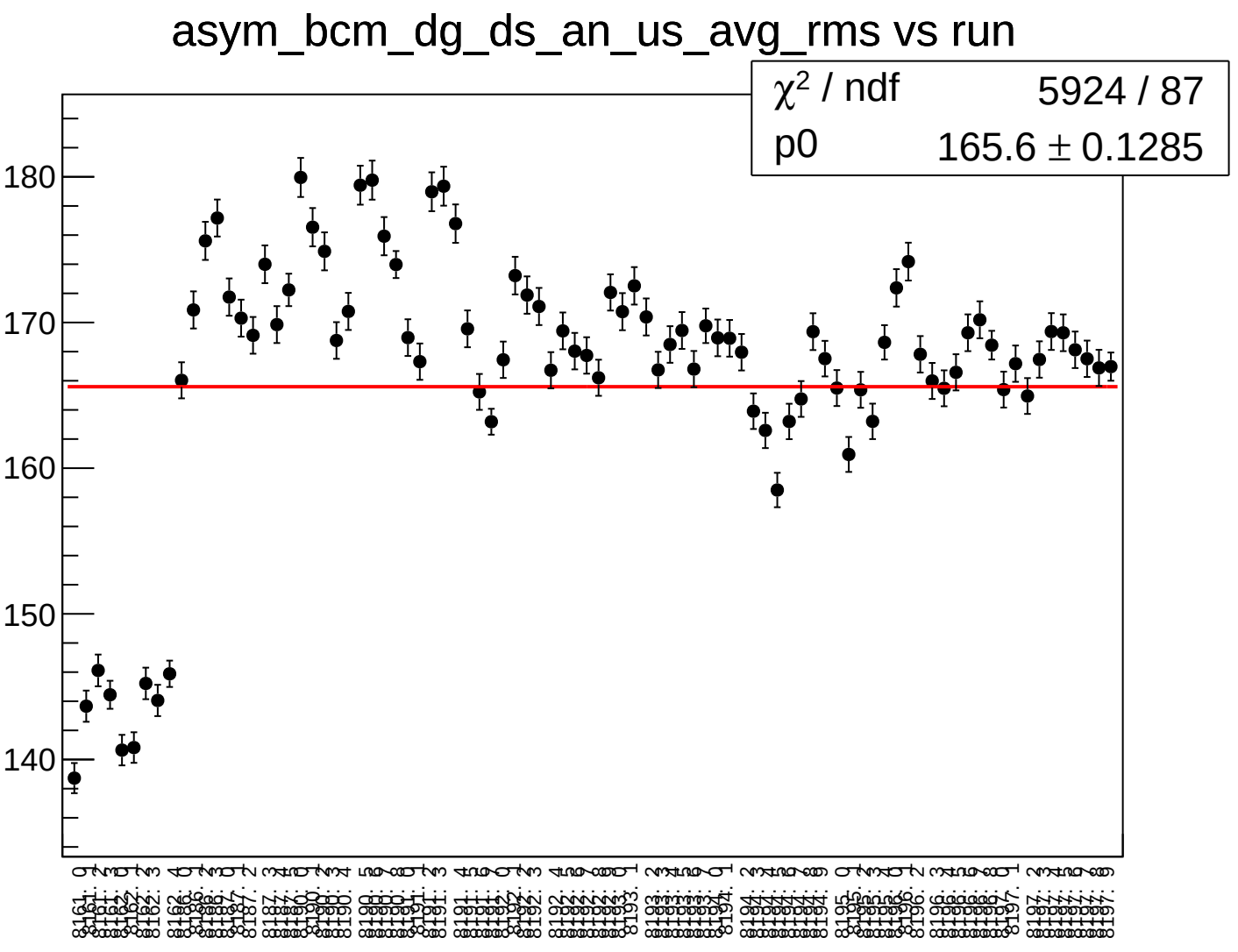

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 106.6 / 87
p0 −16.6 ± 23.95
1000
500
0
−500
−1000
pull
Entries 88
Mean 167.5
Std Dev 0
3
2
1
0
−1
−2
−3

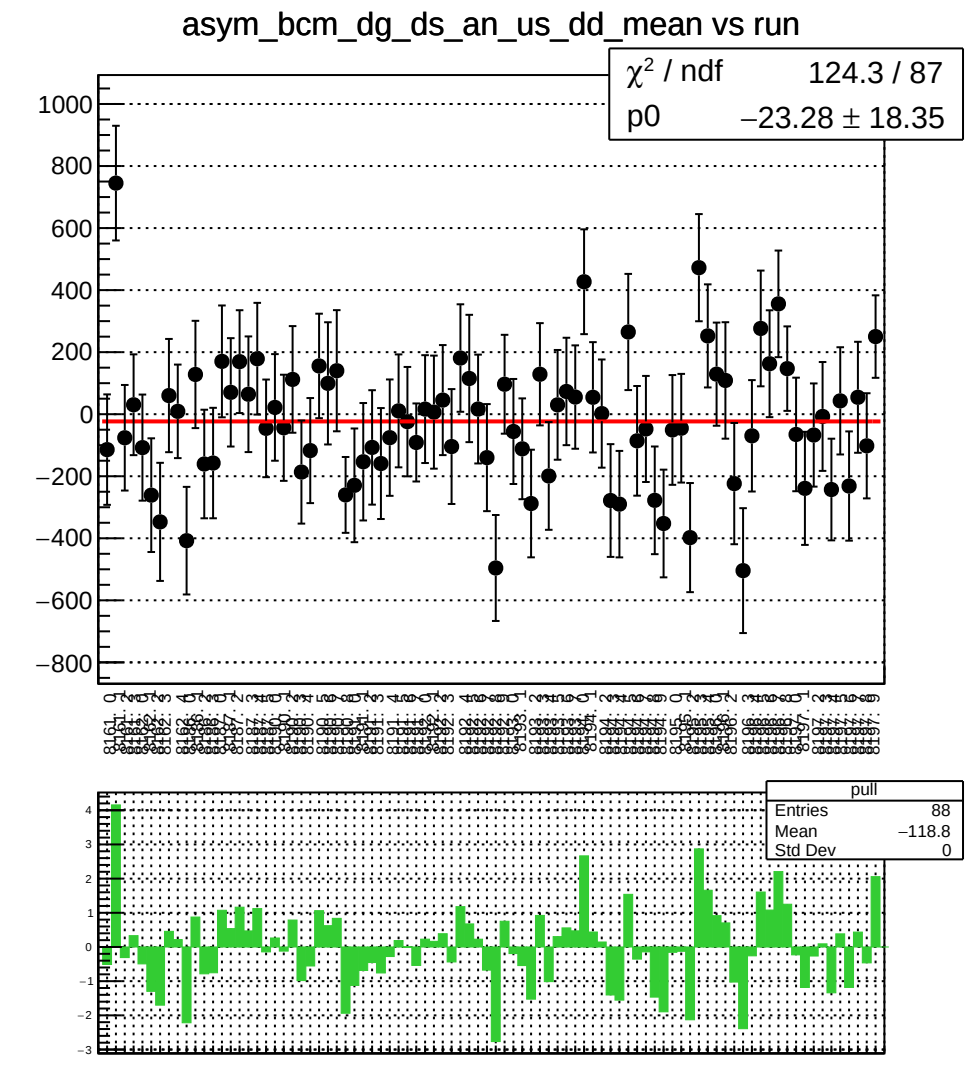

pull1D
Entries 88
Mean −0.01485
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

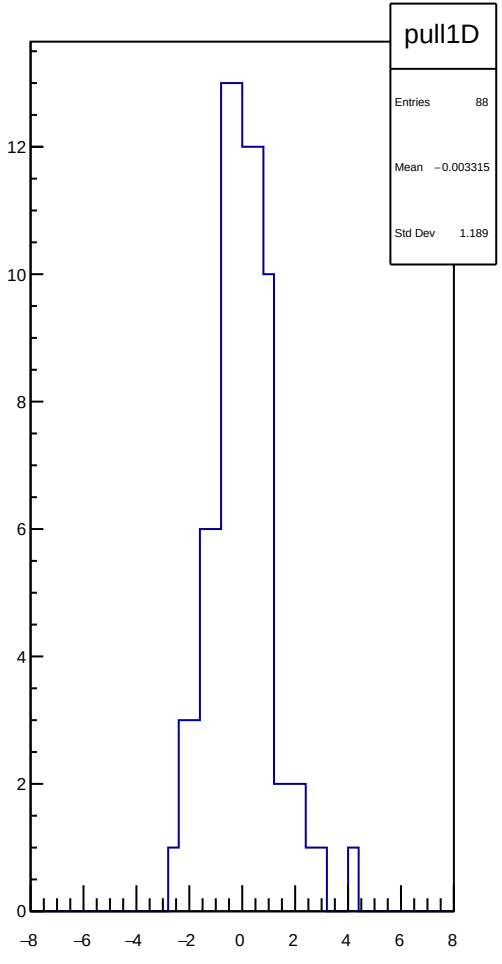

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1436 / 87
p0 21.85 ± 0.01693
24.5
24
23.5
23
22.5
22
21.5
21
20.5

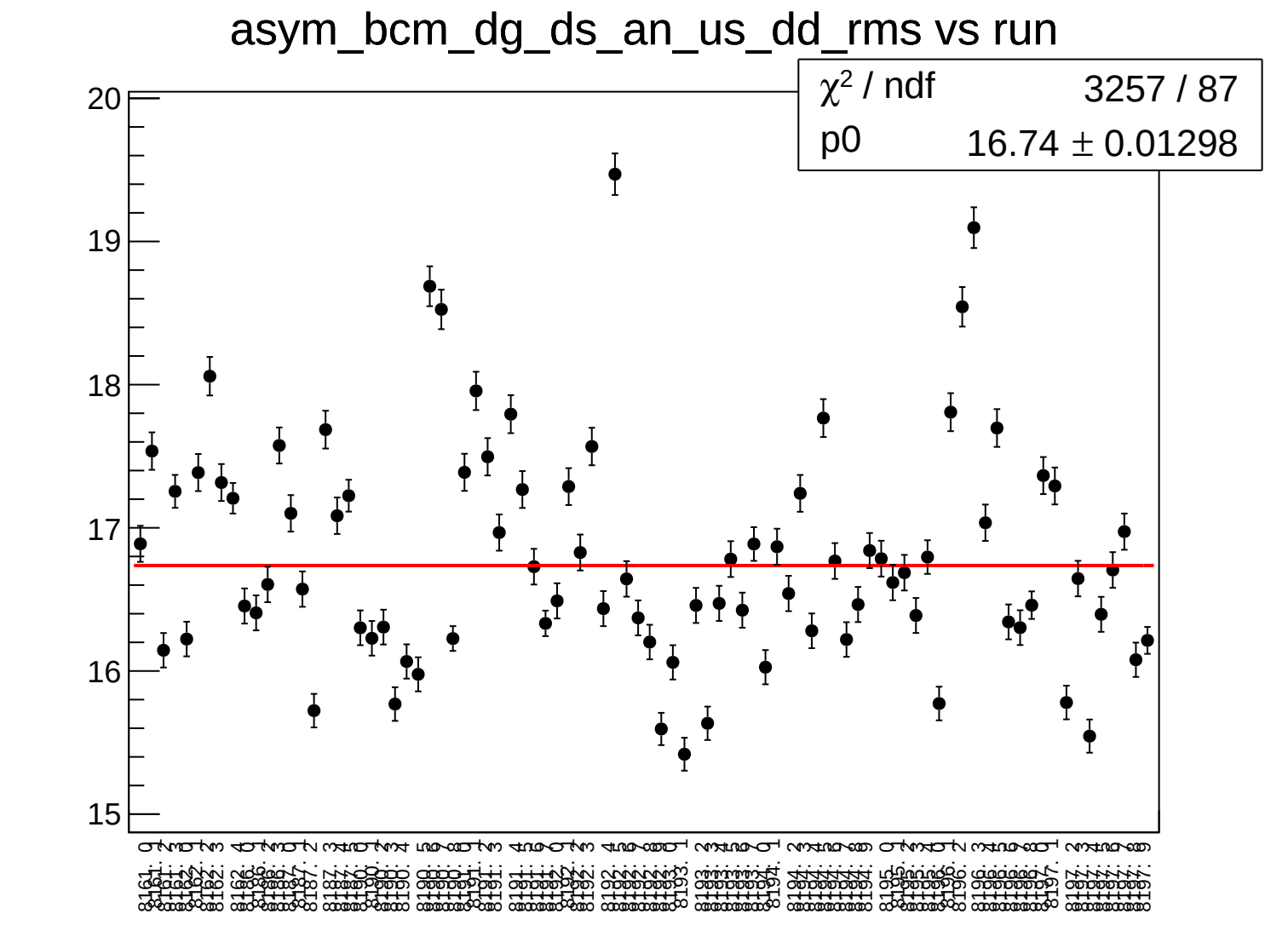

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 18.68 / 87
p0 91.24 ± 181.7
pull
Entries 88
Mean 89.25
Std Dev 0

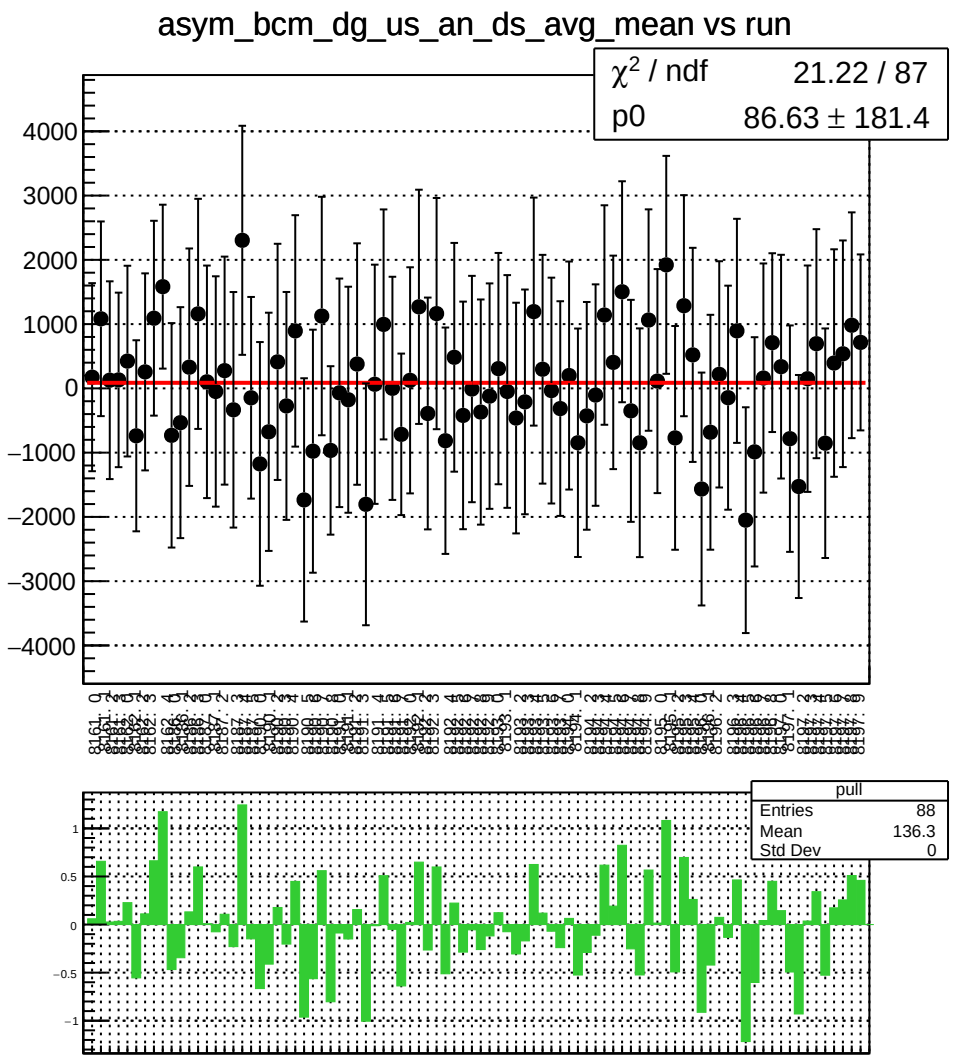

pull1D
Entries 88
Mean −0.00581
Std Dev 0.4607

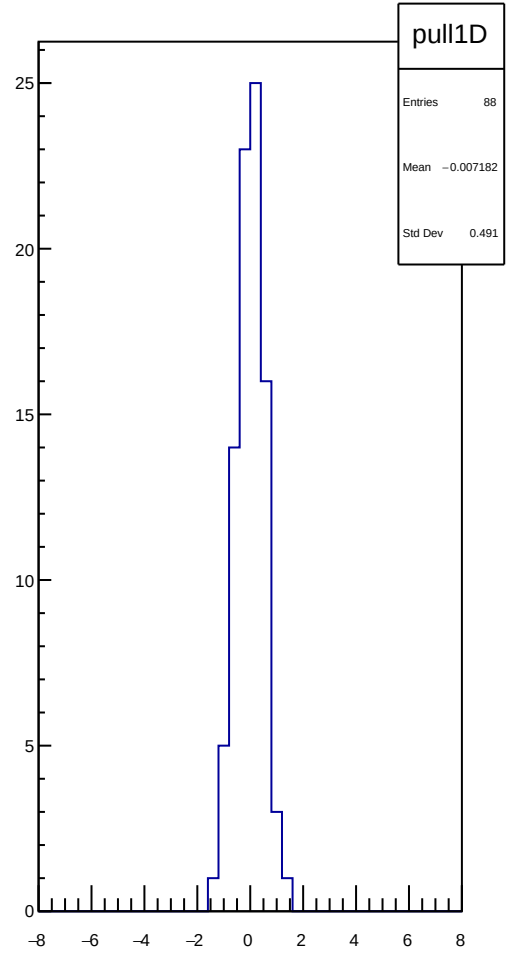

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 5924 / 87
p0 165.6 ± 0.1285
180
170
160
150
140

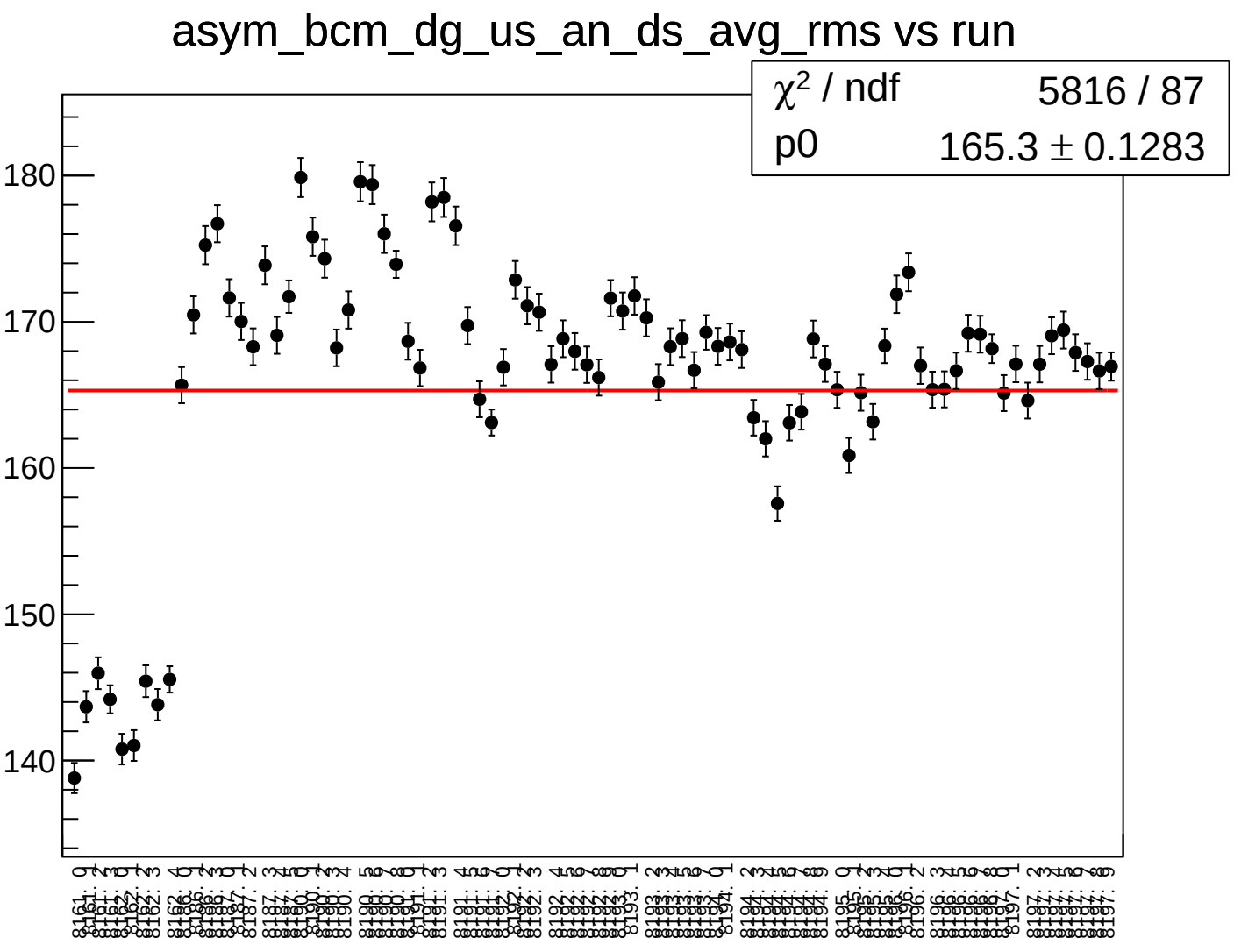

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 124.3 / 87
p0 −23.28 ± 18.35
pull
Entries 88
Mean −118.8
Std Dev 0

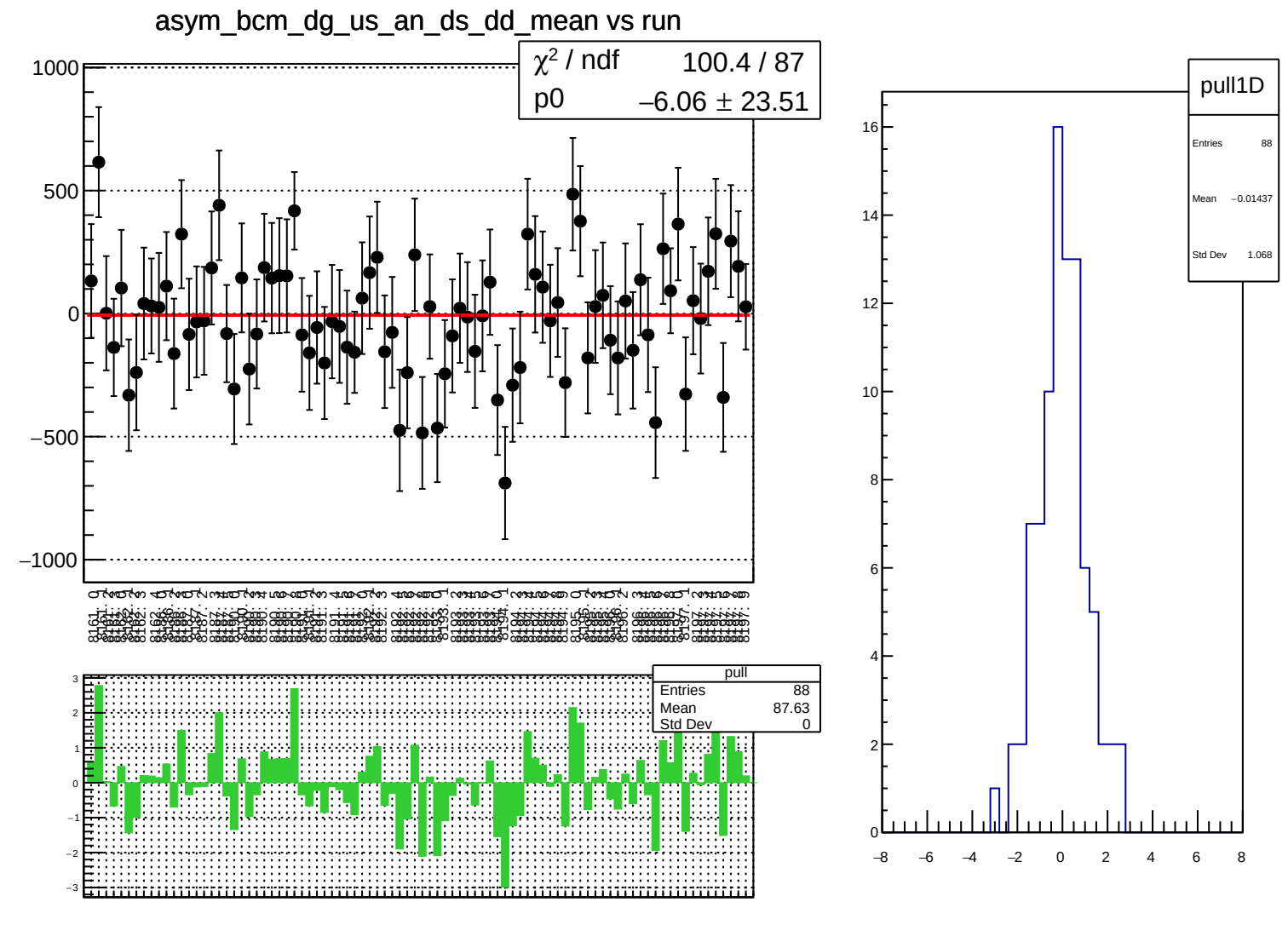

pull1D
Entries 88
Mean −0.003315
Std Dev 1.189

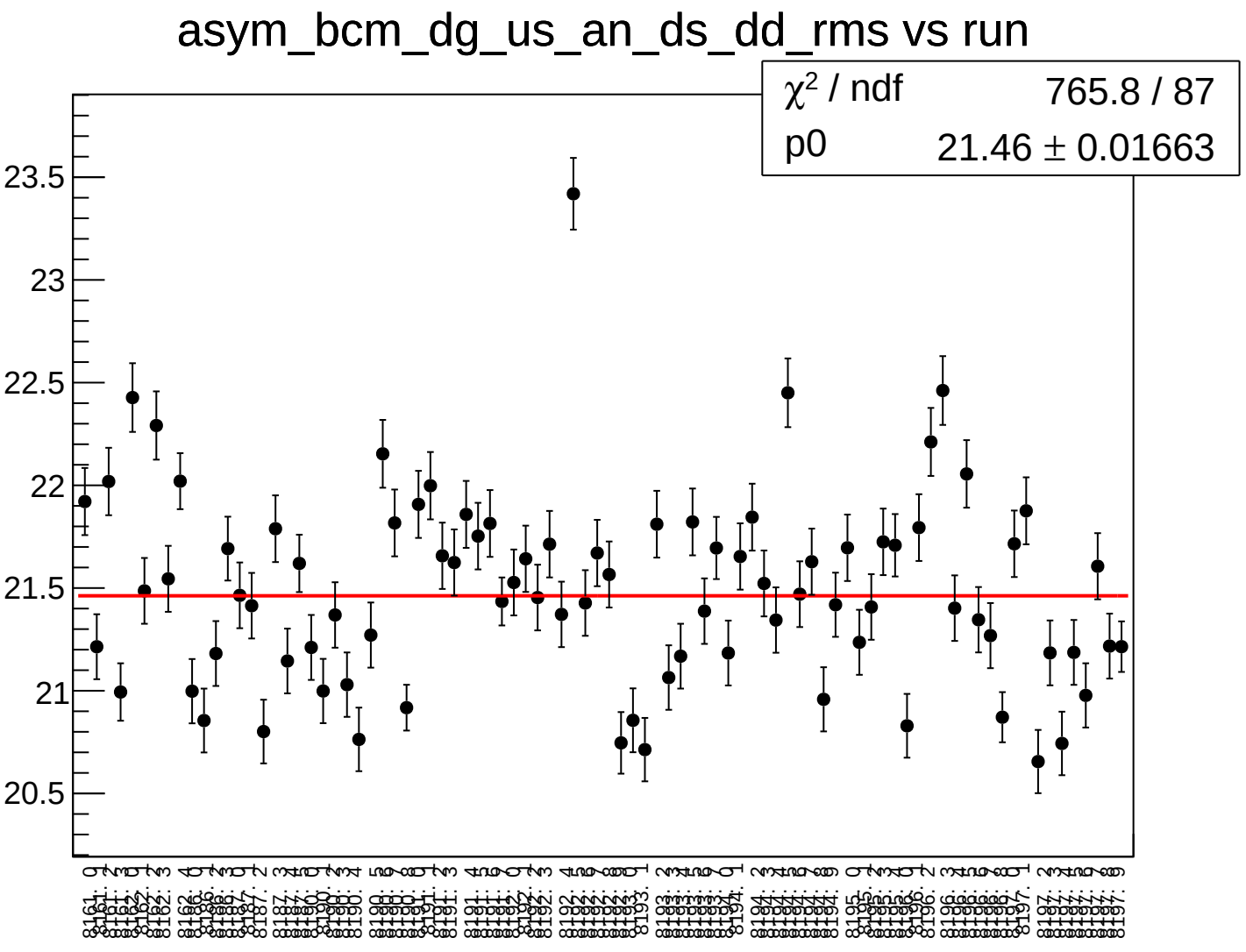

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3257 / 87
p0 16.74 ± 0.01298
20
19
18
17
16
15

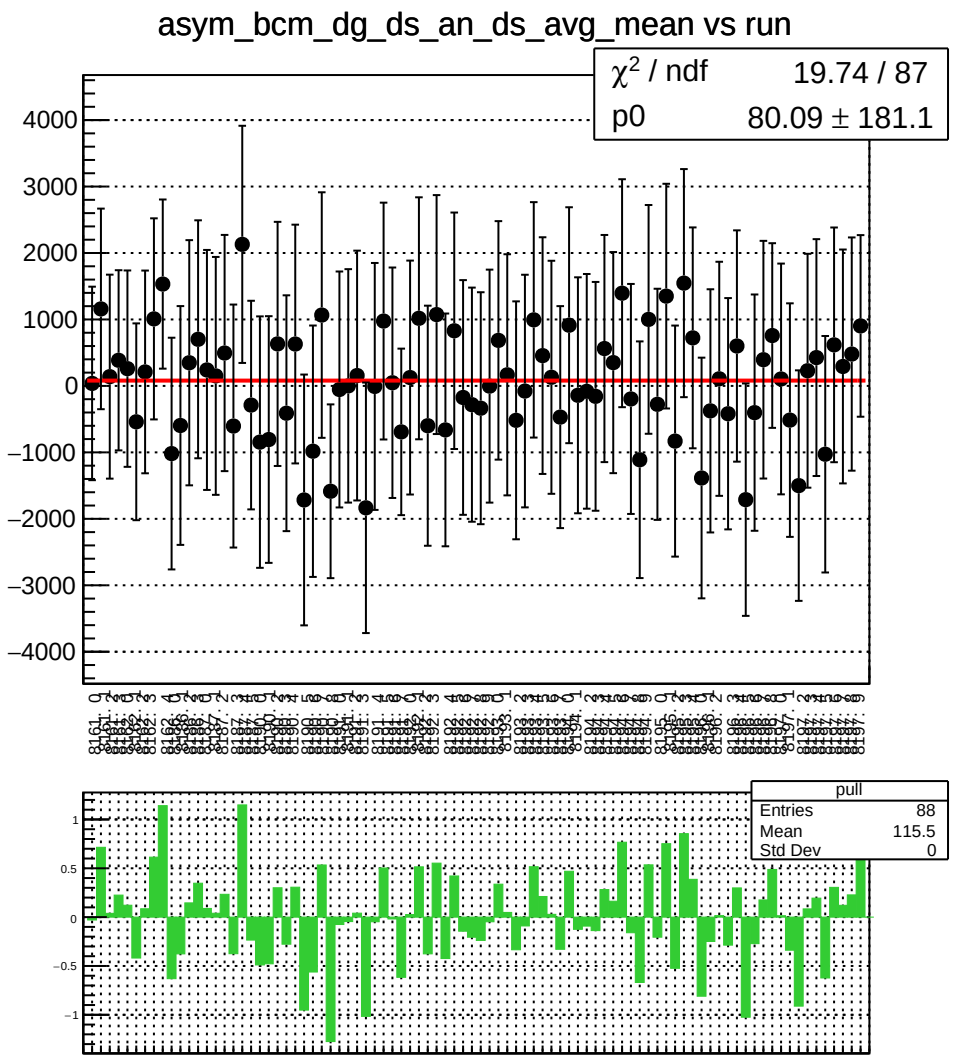

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 21.22 / 87
p0 86.63 ± 181.4
pull
Entries 88
Mean 136.3
Std Dev 0

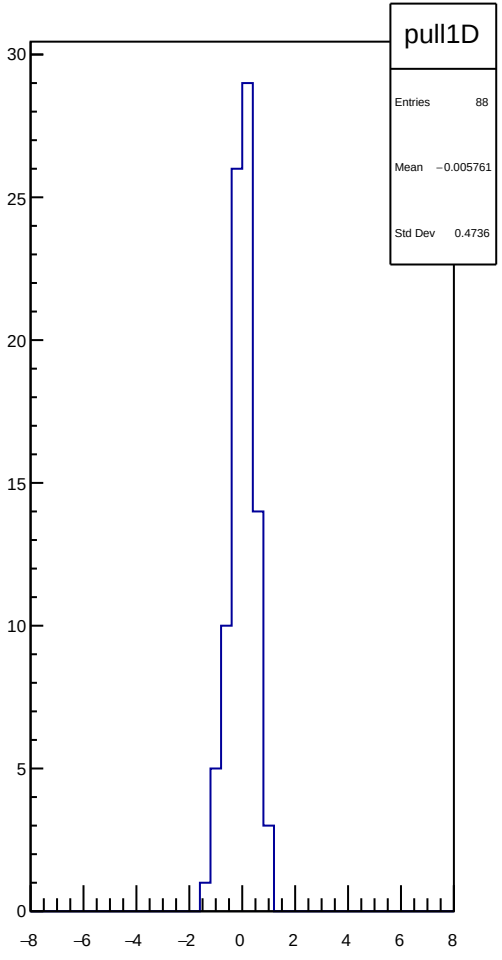

pull1D
Entries 88
Mean −0.007182
Std Dev 0.491

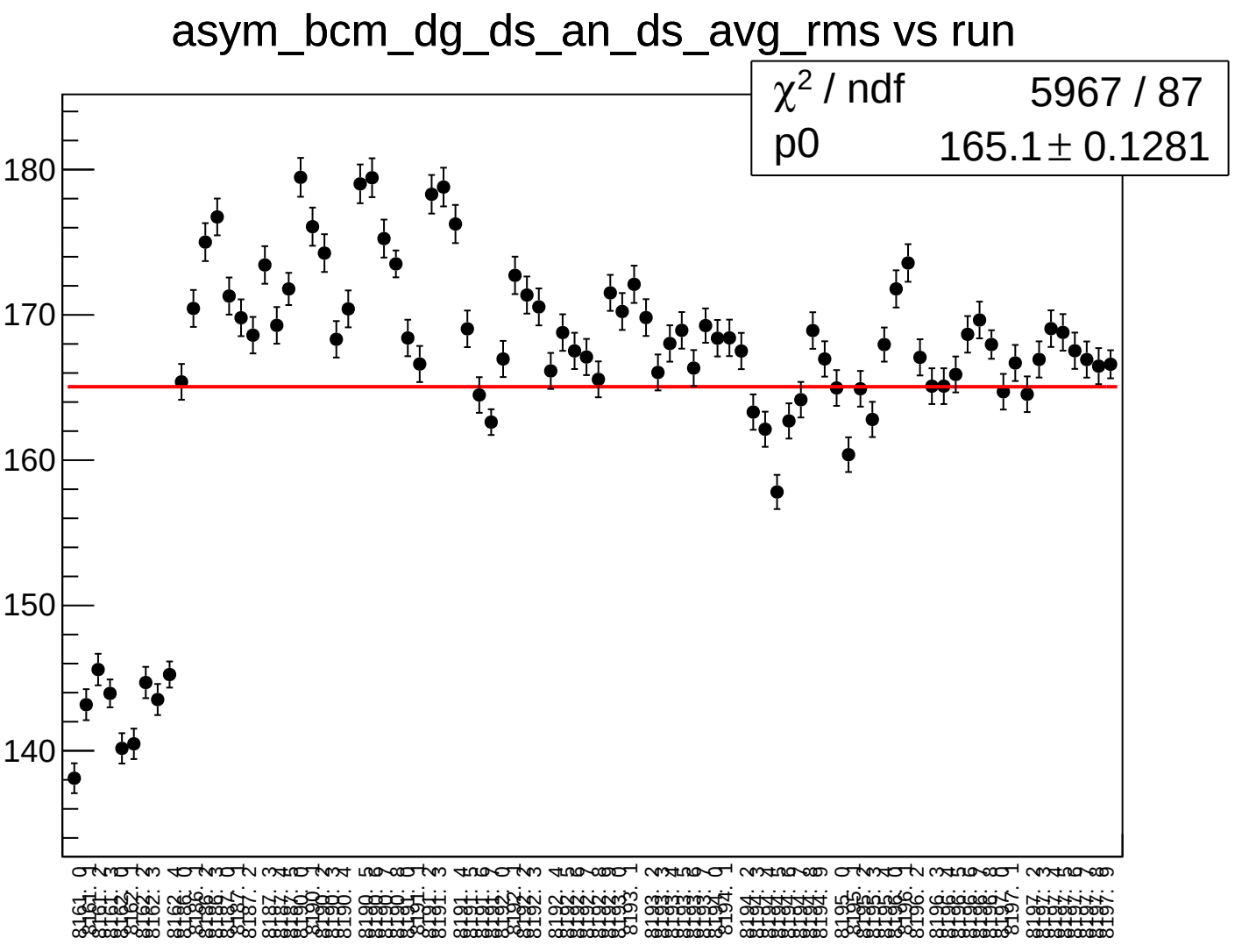

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 5816 / 87
p0 165.3 ± 0.1283
180
170
160
150
140

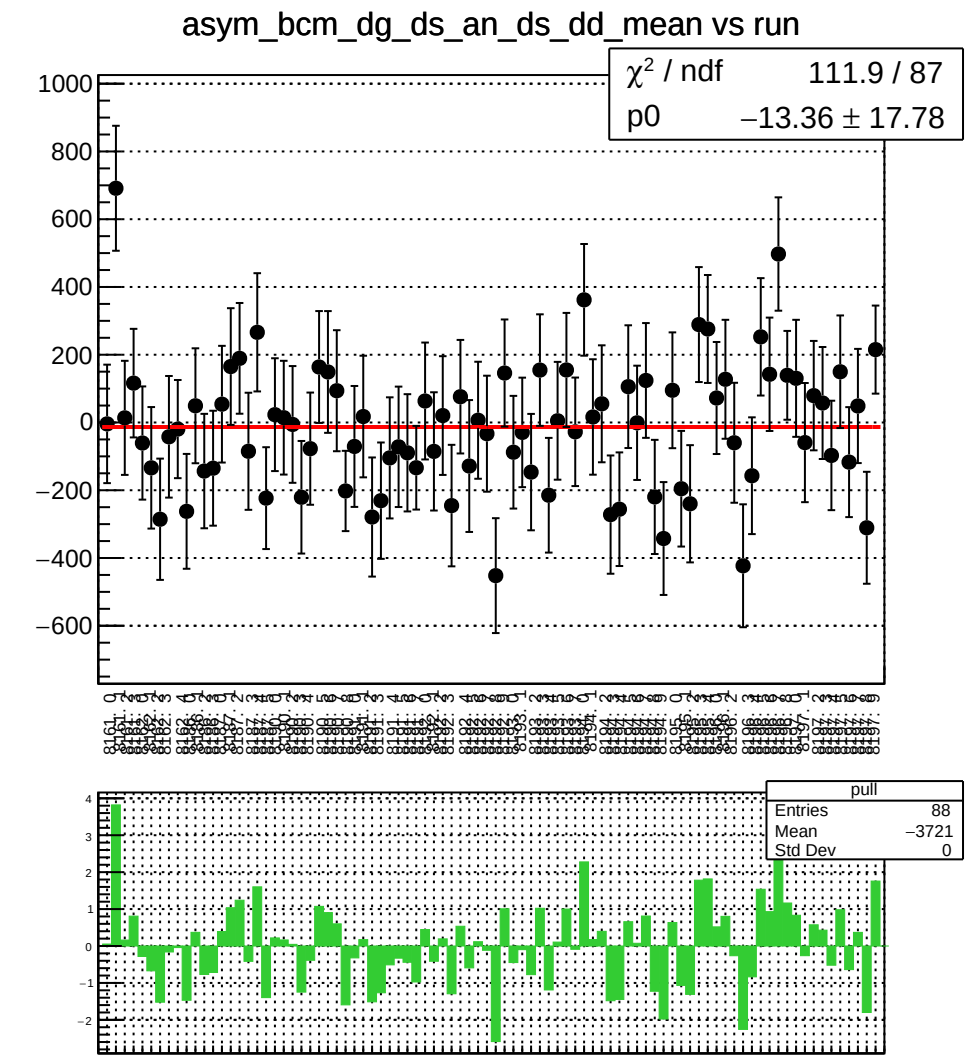

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 100.4 / 87
p0 −6.06 ± 23.51
1000
500
0
−500
−1000
pull
Entries 88
Mean 87.63
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01437
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

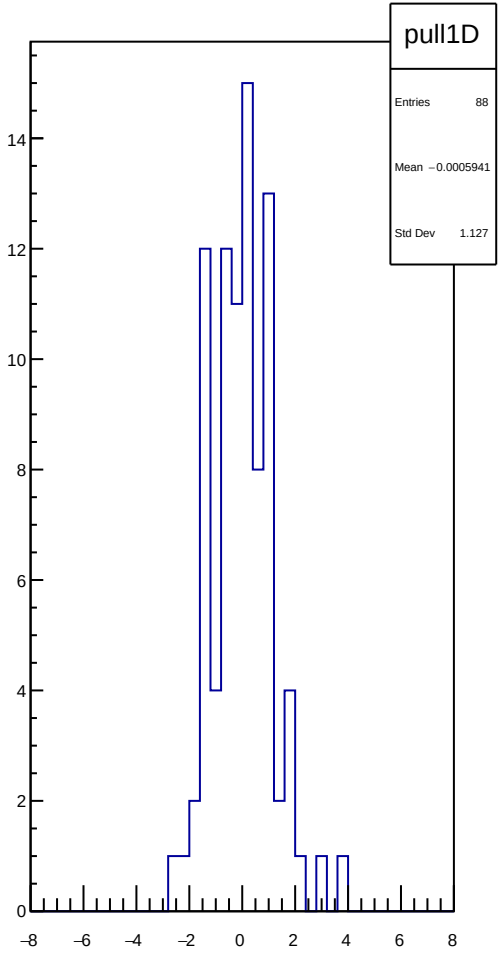

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 765.8 / 87
p0 21.46 ± 0.01663
23.5
23
22.5
22
21.5
21
20.5

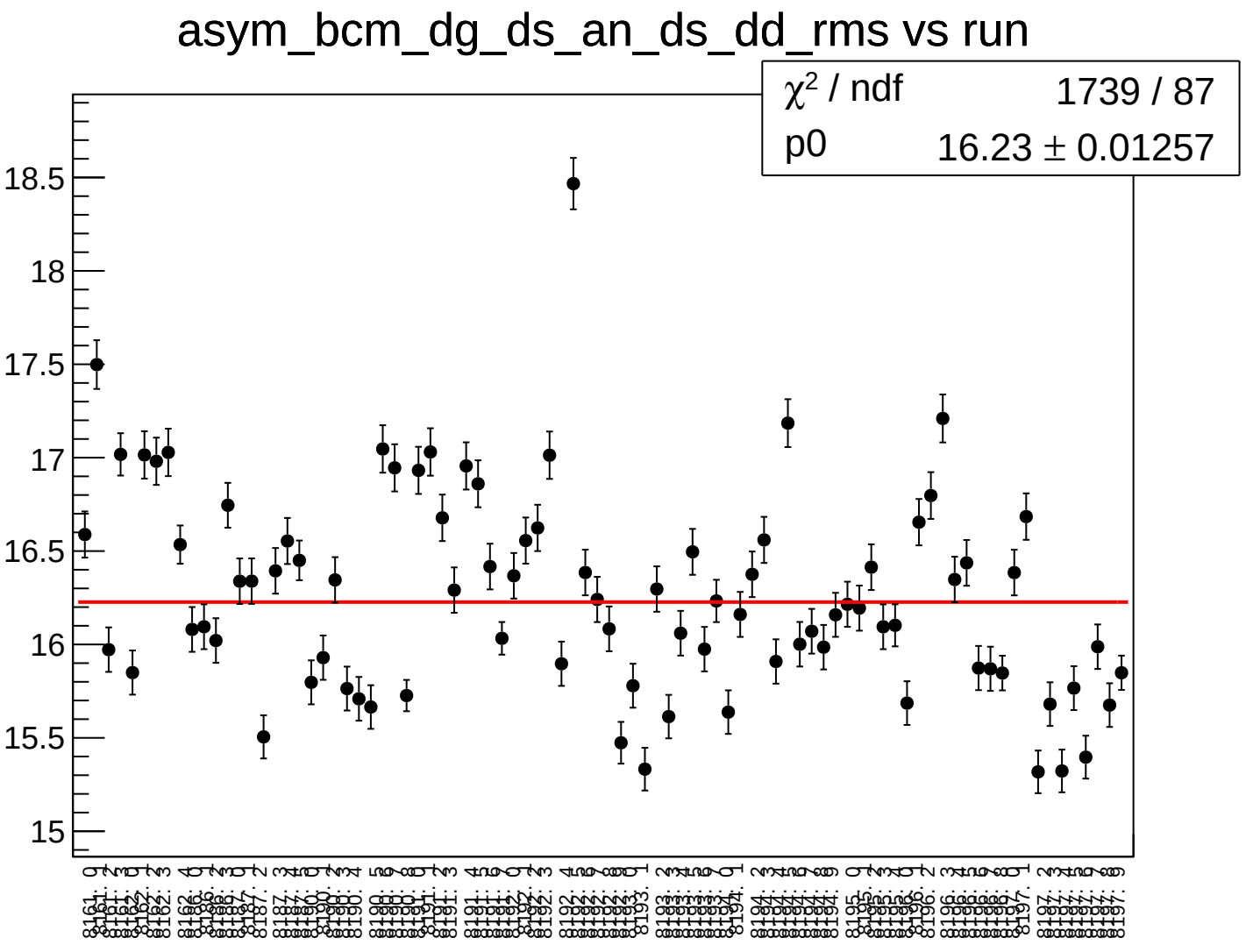

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 19.74 / 87
p0 80.09 ± 181.1
pull
Entries 88
Mean 115.5
Std Dev 0

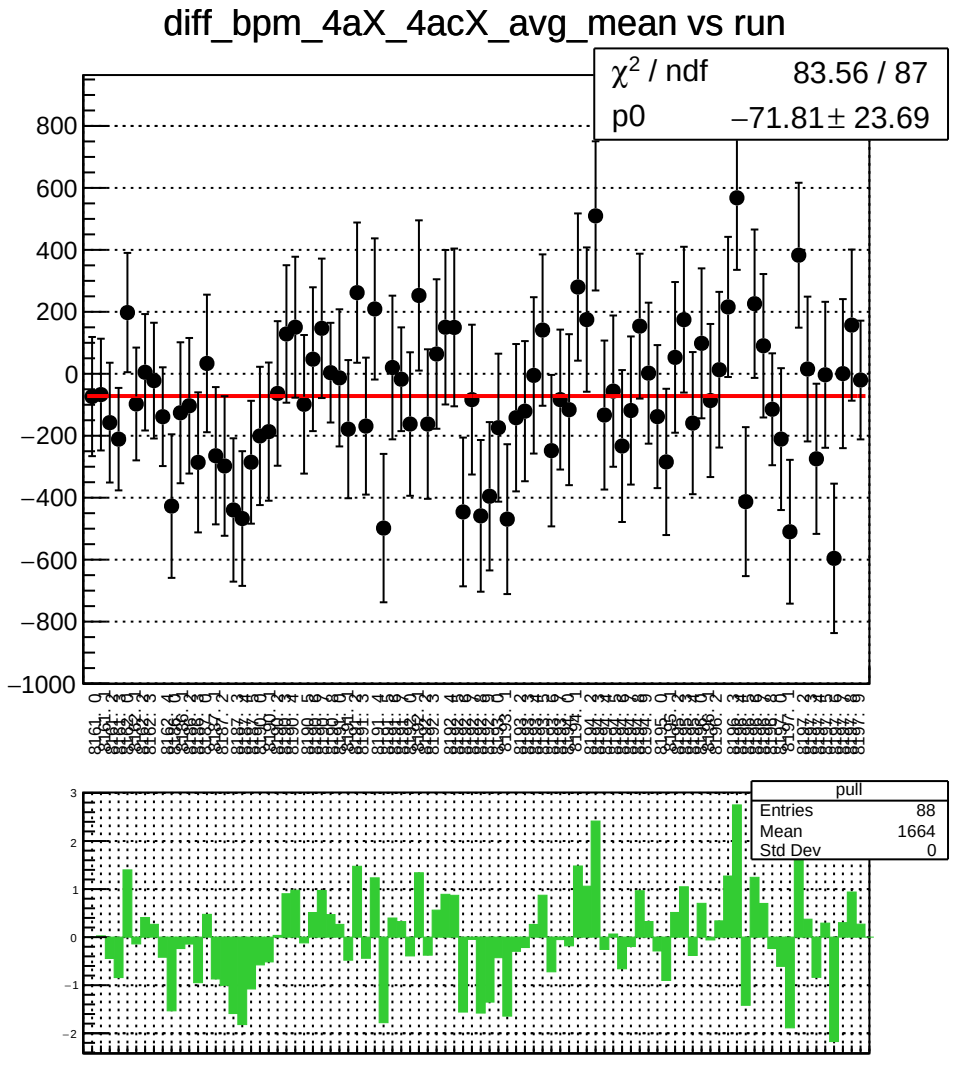

pull1D
Entries 88
Mean −0.005761
Std Dev 0.4736

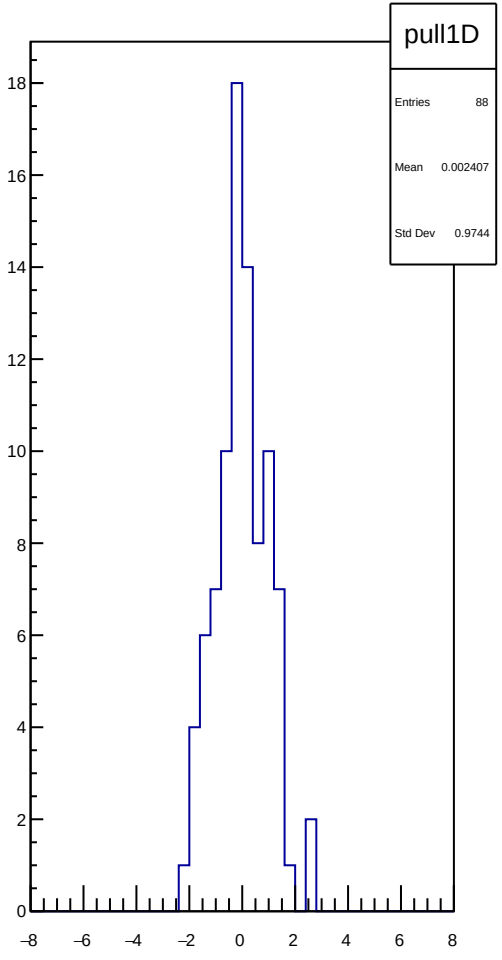

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 5967 / 87
p0 165.1 ± 0.1281
180
170
160
150
140


asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 111.9 / 87
p0 −13.36 ± 17.78
pull
Entries 88
Mean −3721
Std Dev 0

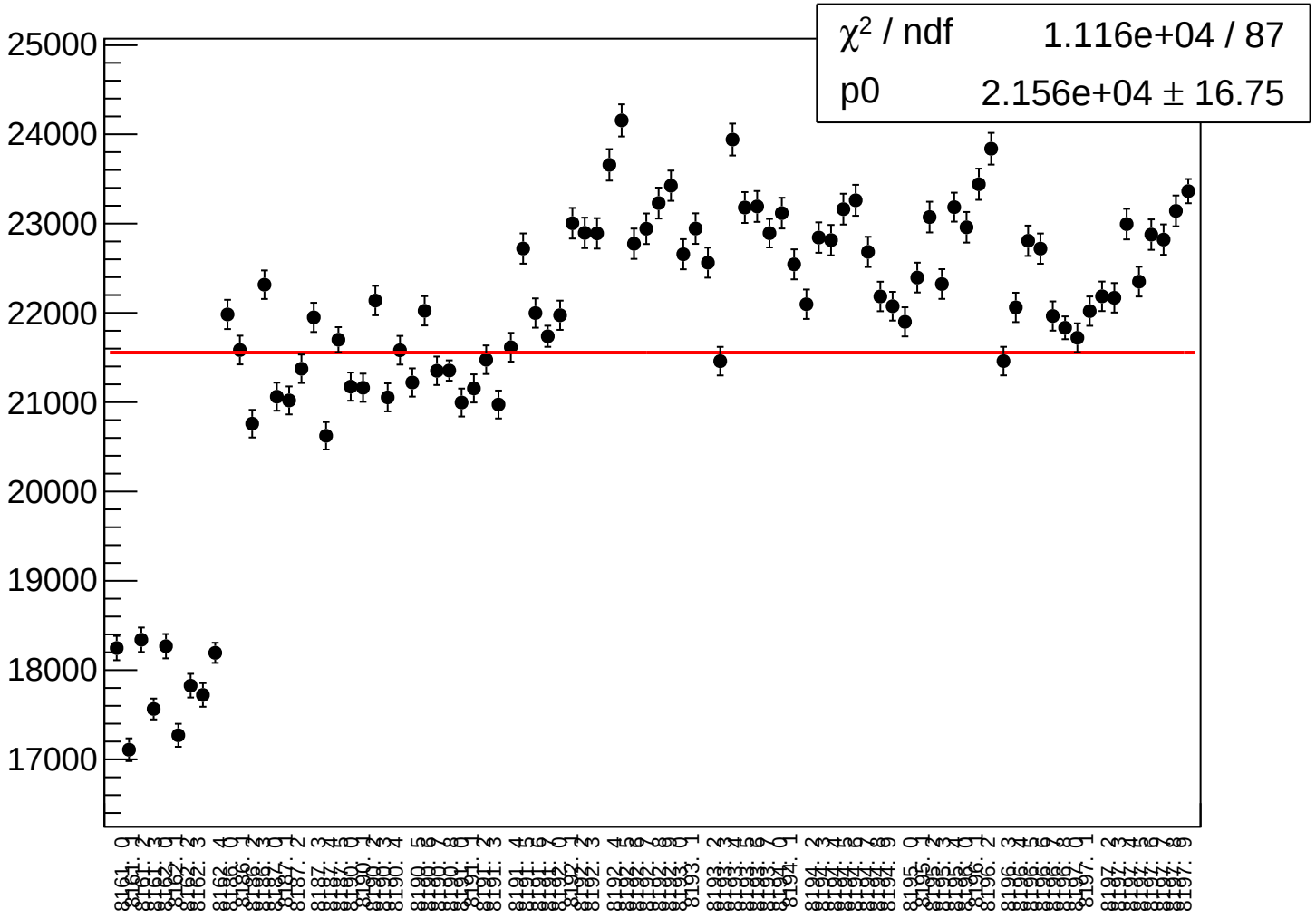

pull1D
Entries 88
Mean −0.0005941
Std Dev 1.127

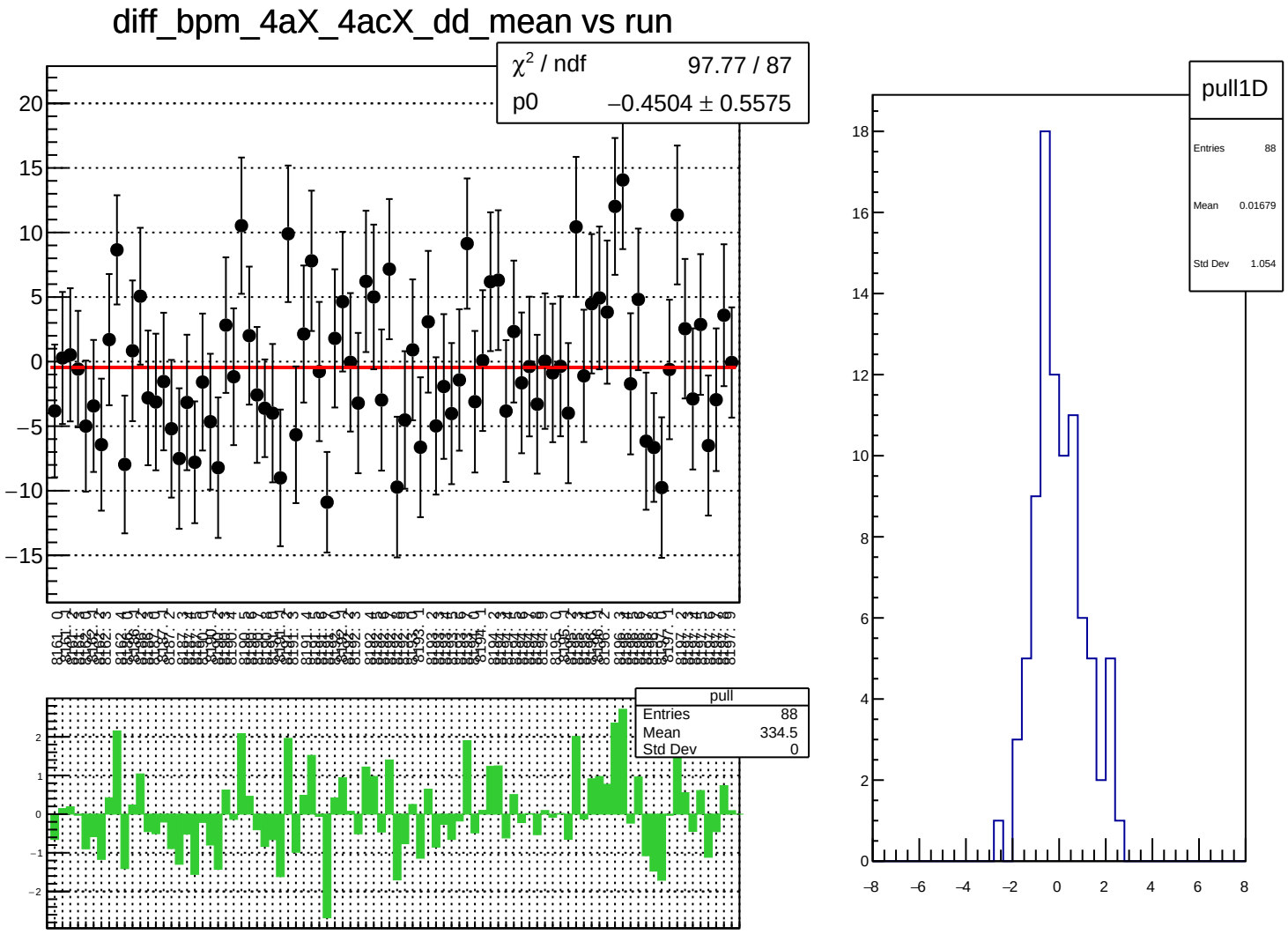

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1739 / 87
p0 16.23 ± 0.01257
18.5
18
17.5
17
16.5
16
15.5
15

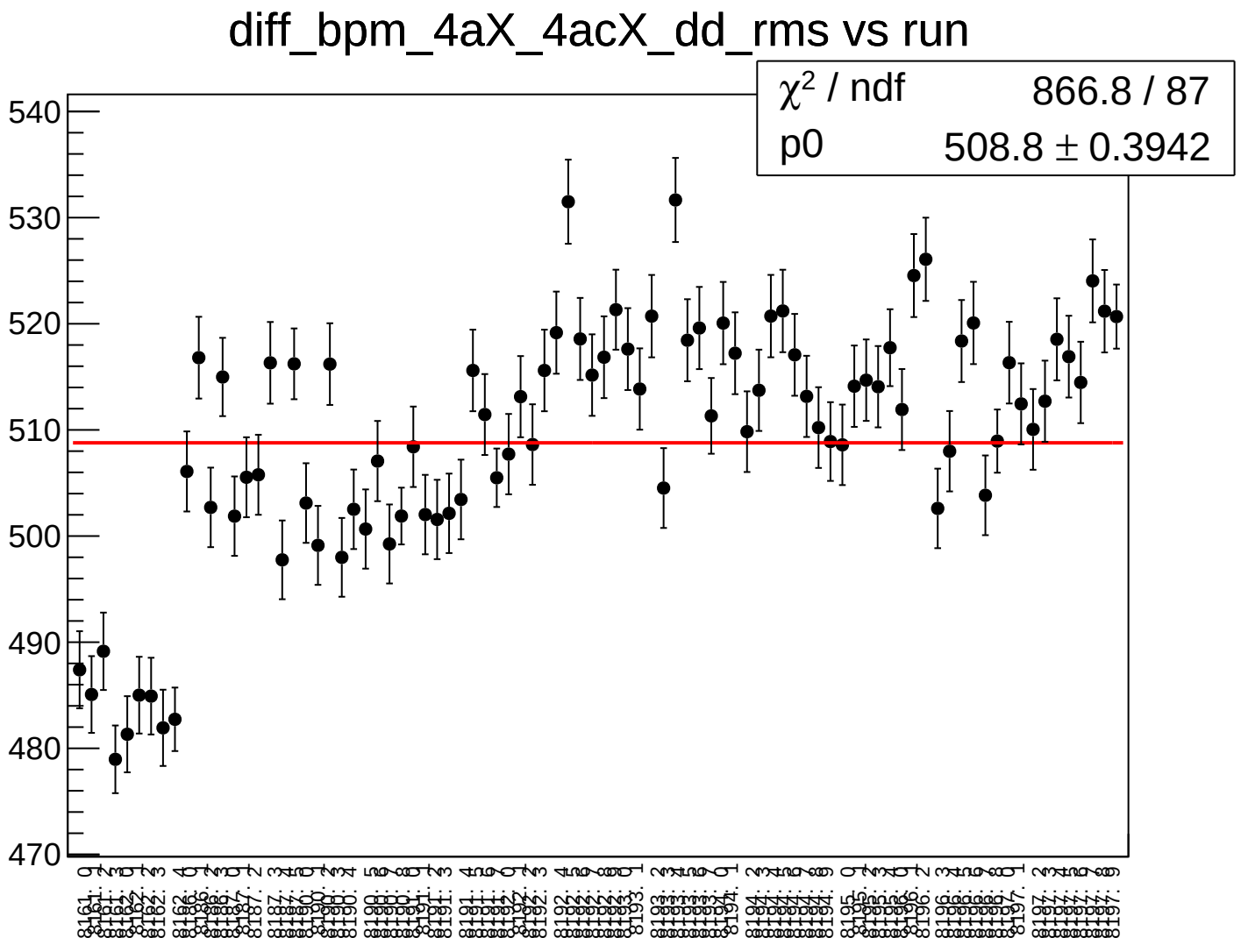

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 83.56 / 87
p0 −71.81± 23.69
pull
Entries 88
Mean 1664
Std Dev 0

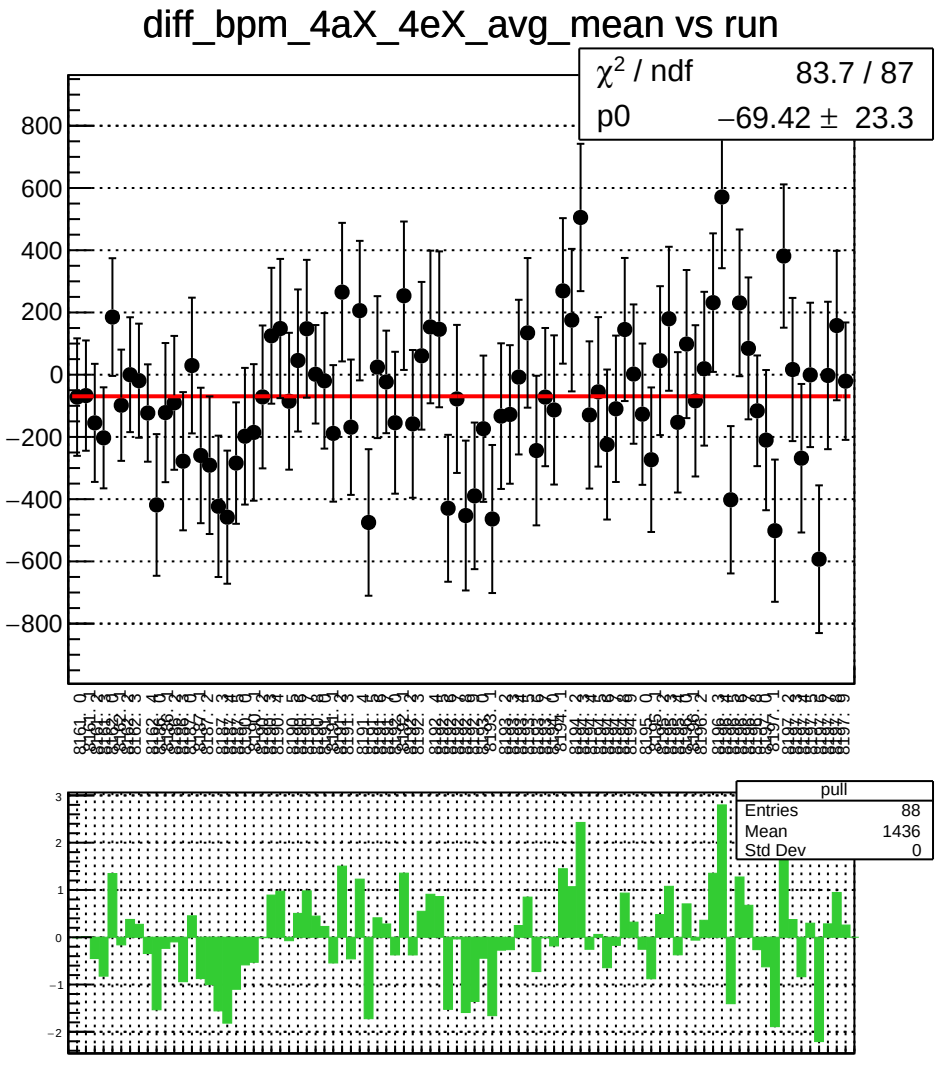

pull1D
Entries 88
Mean 0.002407
Std Dev 0.9744

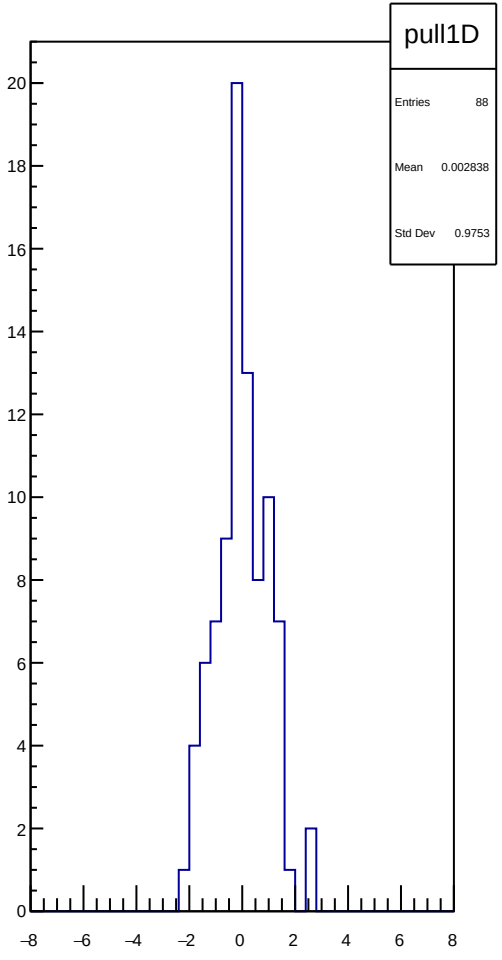
diff_bpm_4aX_4acX_avg_rms vs run

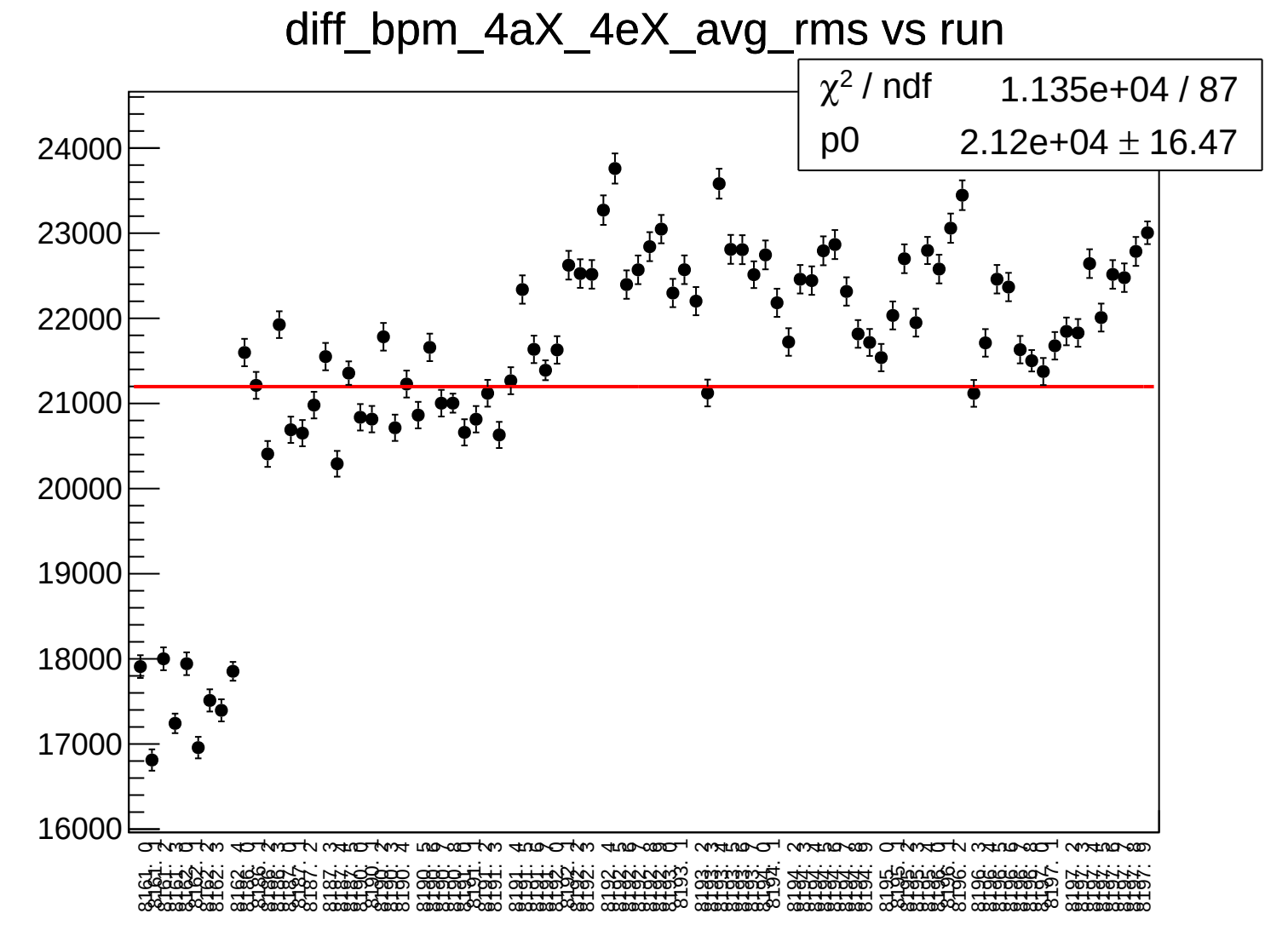


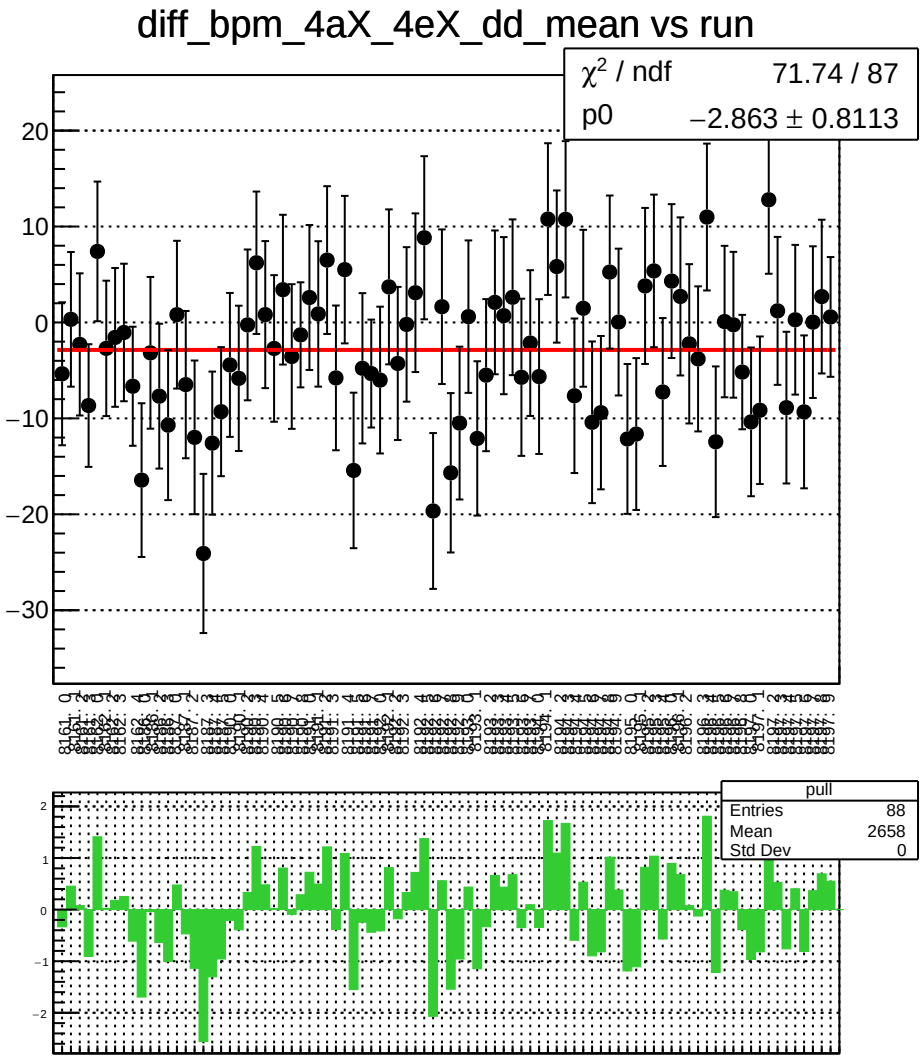

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 97.77 / 87
p0 −0.4504 ± 0.5575
pull
Entries 88
Mean 334.5
Std Dev 0
pull1D
Entries 88
Mean 0.01679
Std Dev 1.054

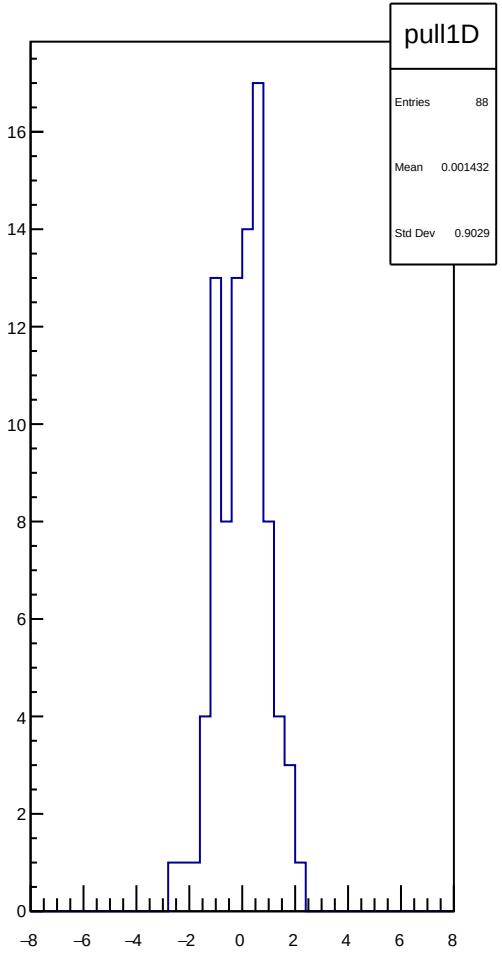

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 866.8 / 87
p0 508.8 ± 0.3942
540
530
520
510
500
490
480
470

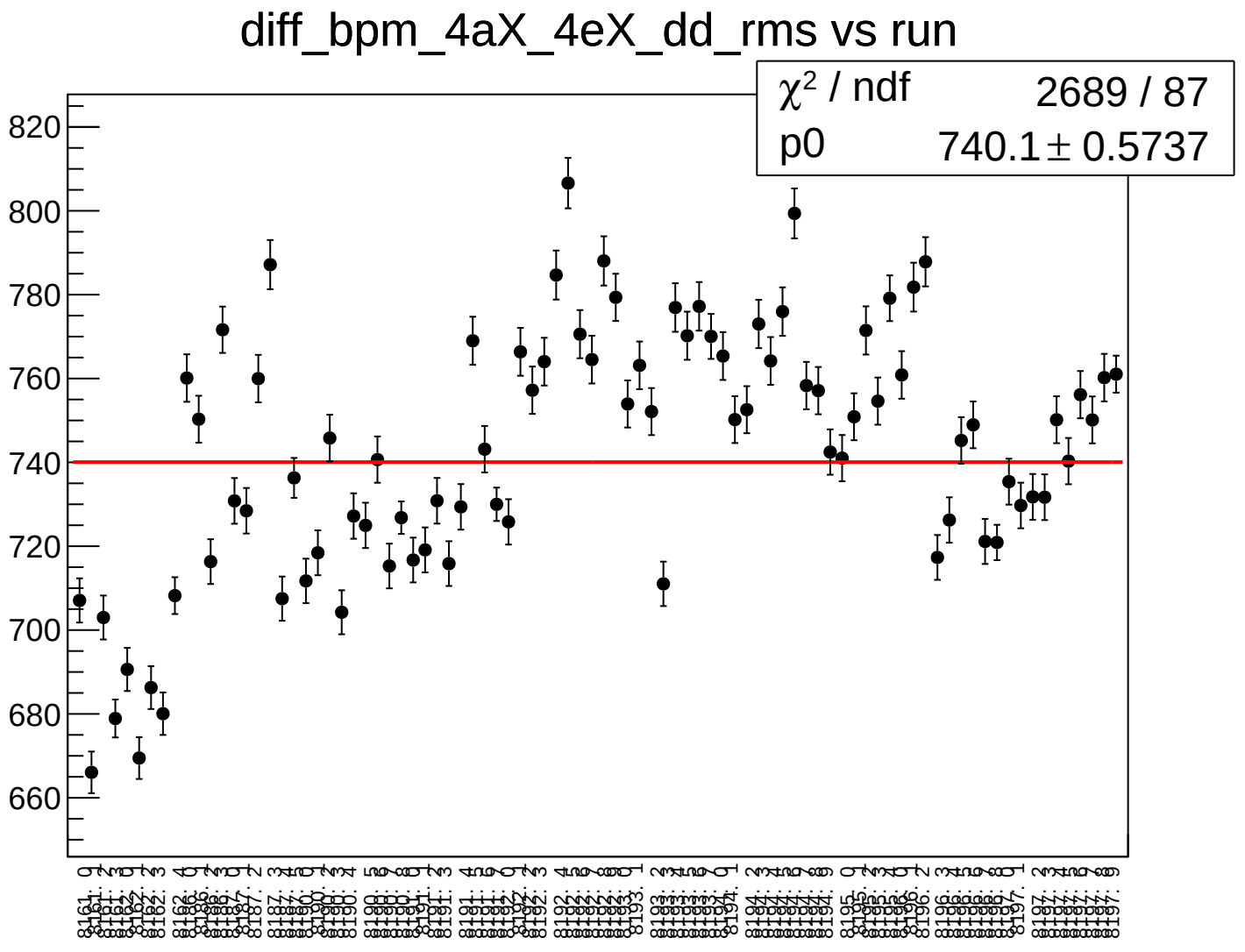

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 83.7 / 87
p0 −69.42 ± 23.3
pull
Entries 88
Mean 1436
Std Dev 0

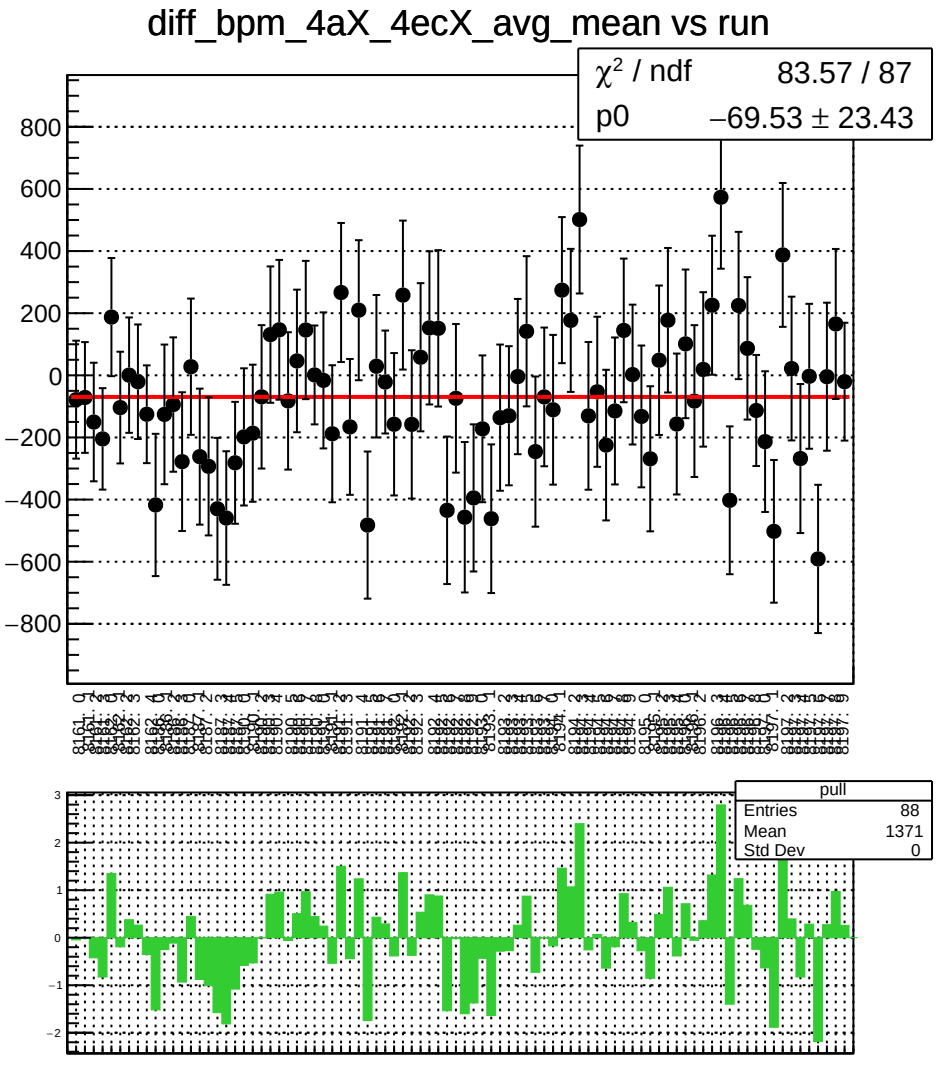

pull1D
Entries 88
Mean 0.002838
Std Dev 0.9753

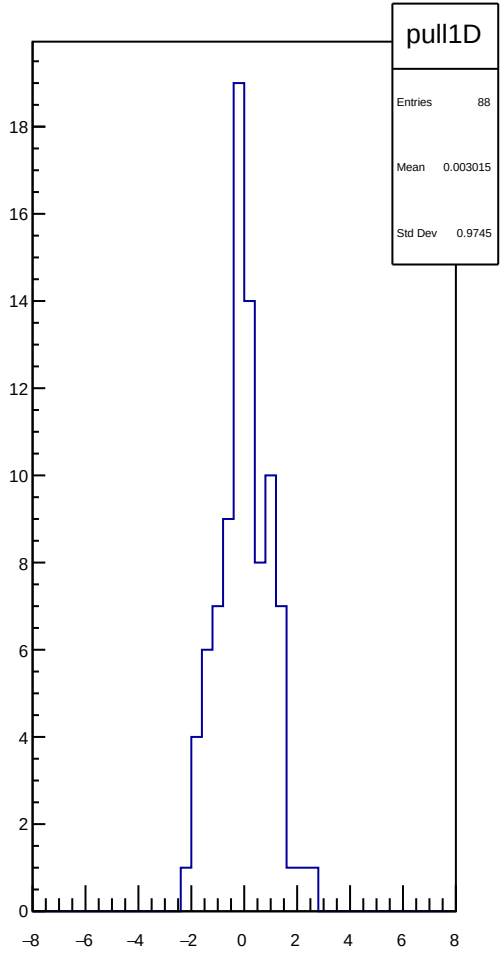

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.135e+04 / 87
p0 2.12e+04 ± 16.47
24000
23000
22000
21000
20000
19000
18000
17000
16000

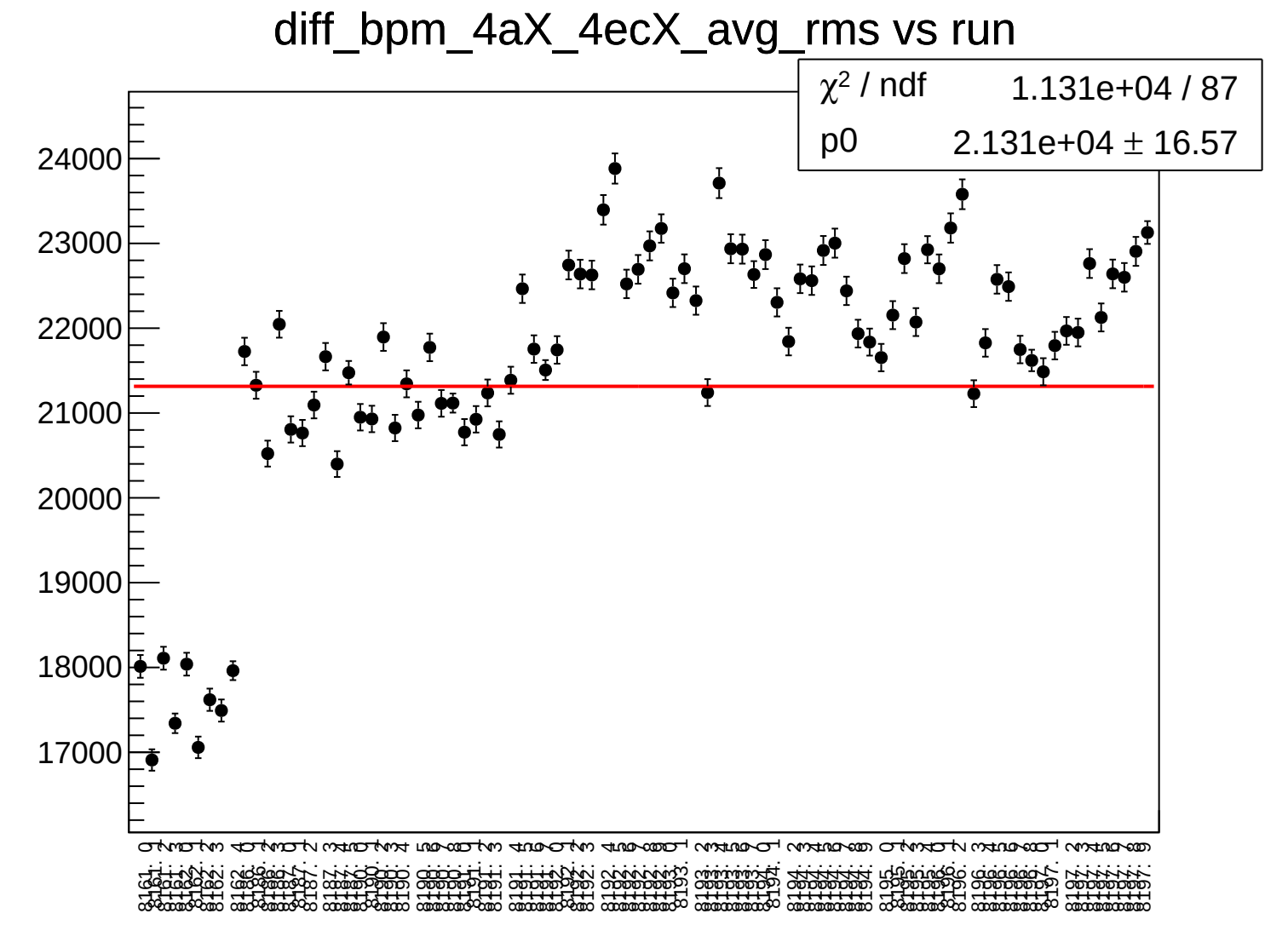

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 71.74 / 87
p0 −2.863 ± 0.8113
pull
Entries 88
Mean 2658
Std Dev 0

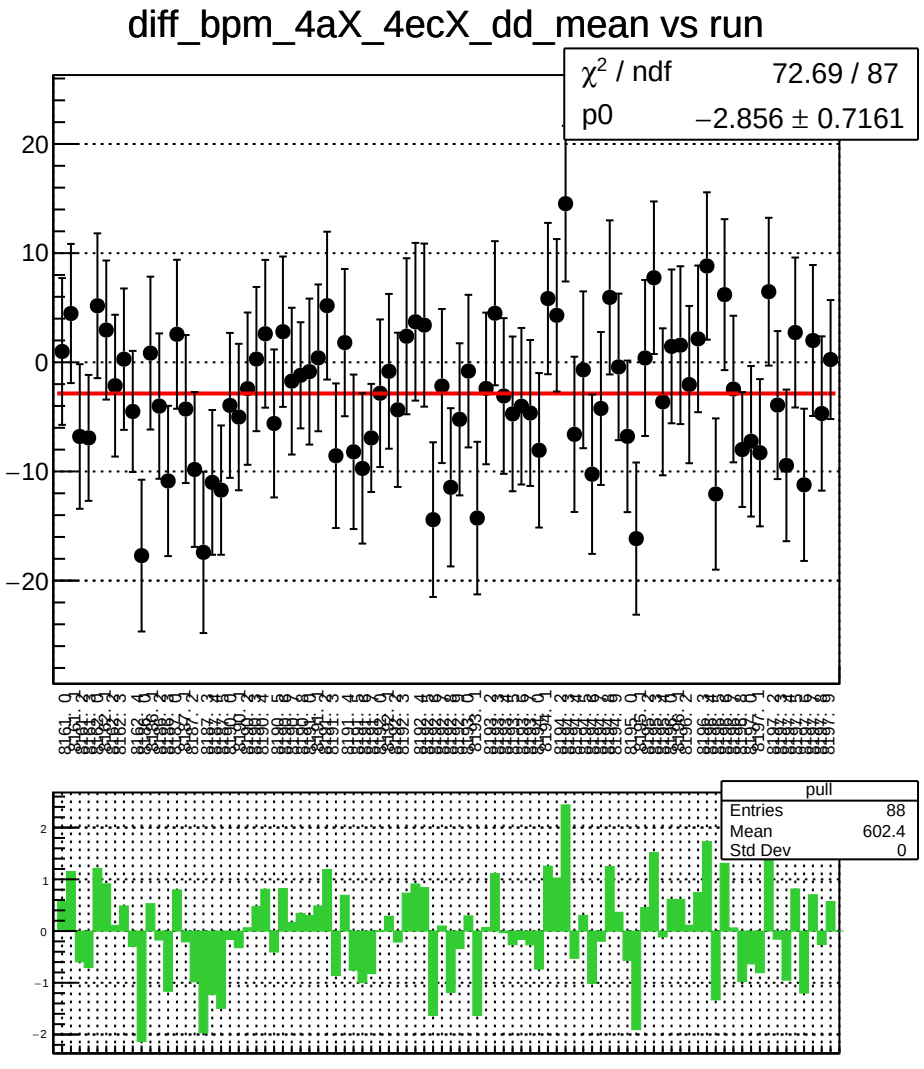

pull1D
Entries 88
Mean 0.001432
Std Dev 0.9029

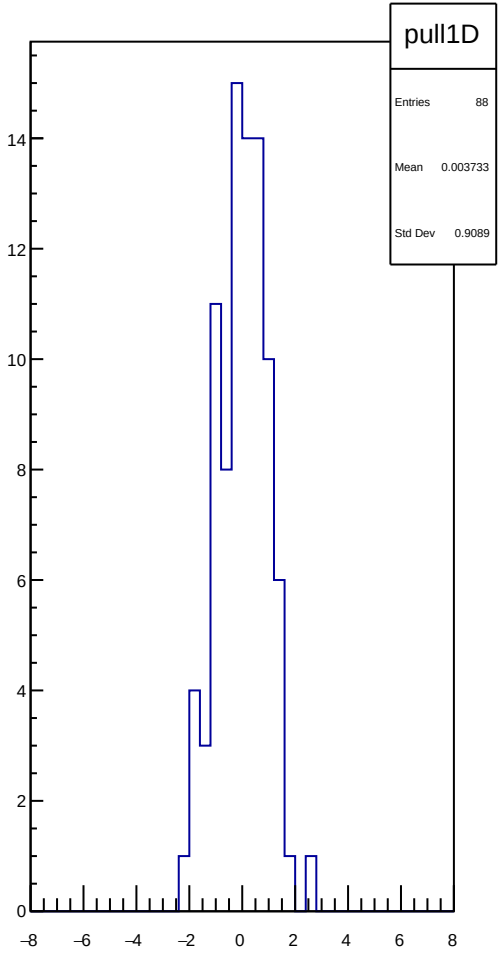

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2689 / 87
p0 740.1 ± 0.5737
820
800
780
760
740
720
700
680
660

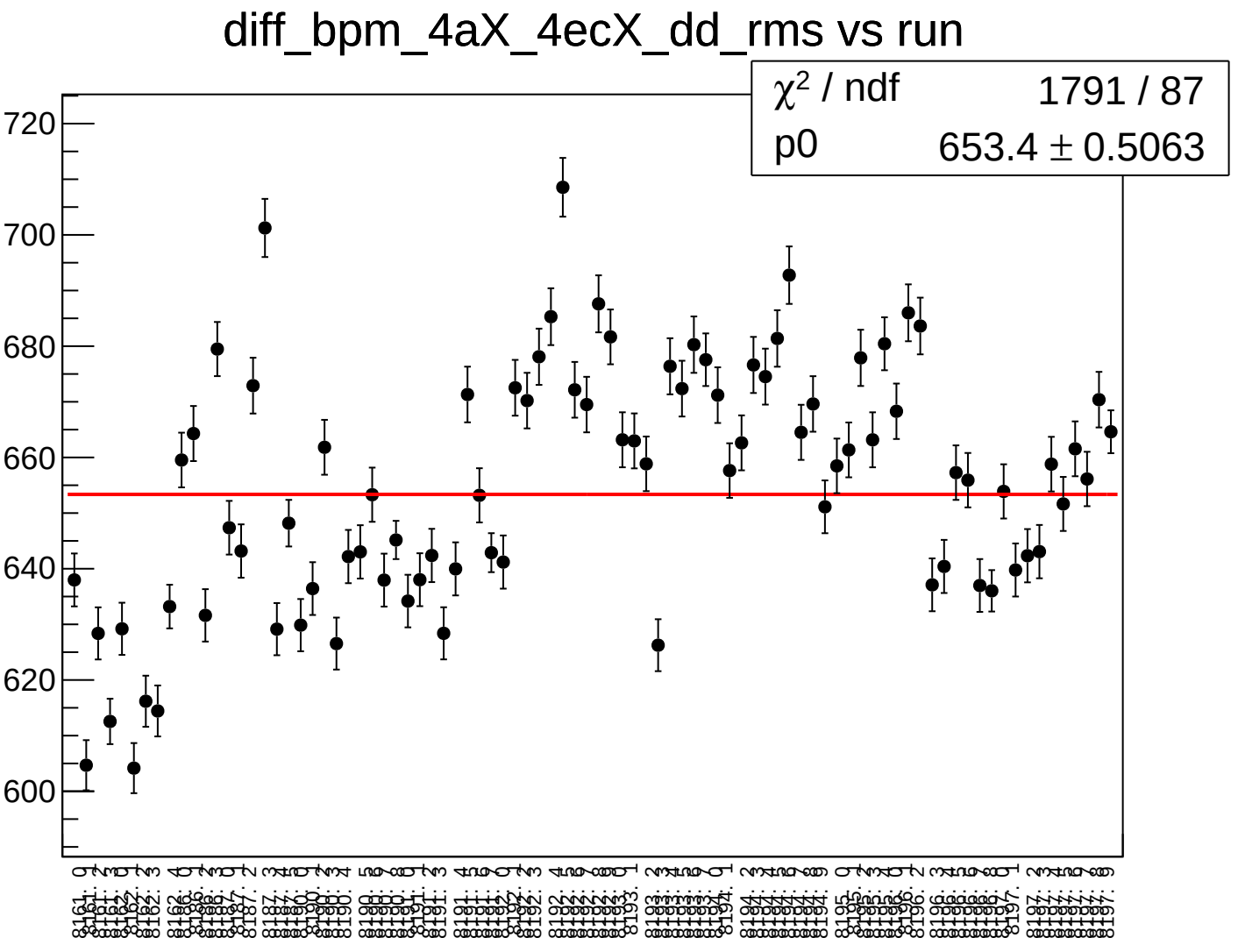

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 83.57 / 87
p0 −69.53 ± 23.43
pull
Entries 88
Mean 1371
Std Dev 0

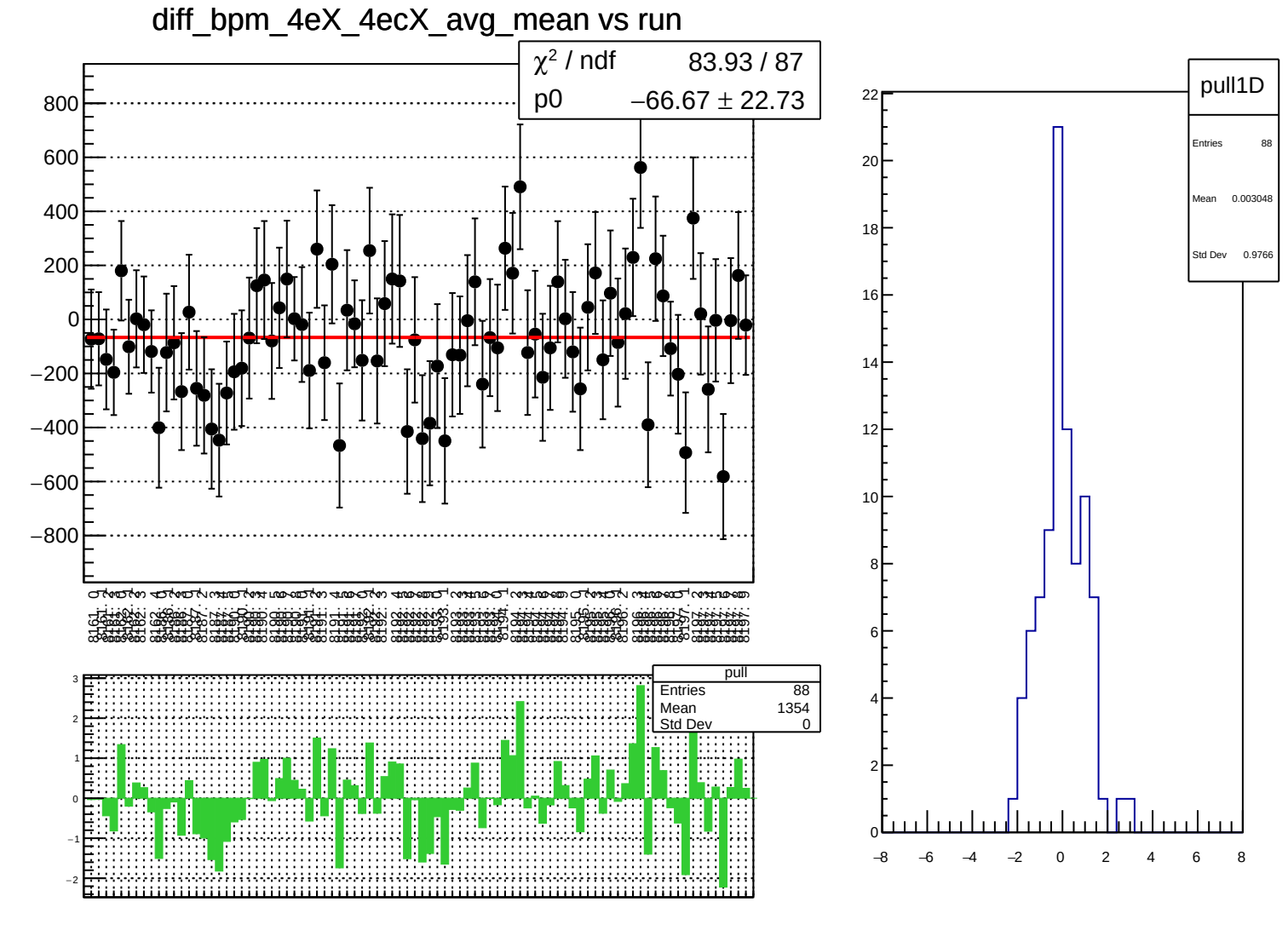

pull1D
Entries 88
Mean 0.003015
Std Dev 0.9745

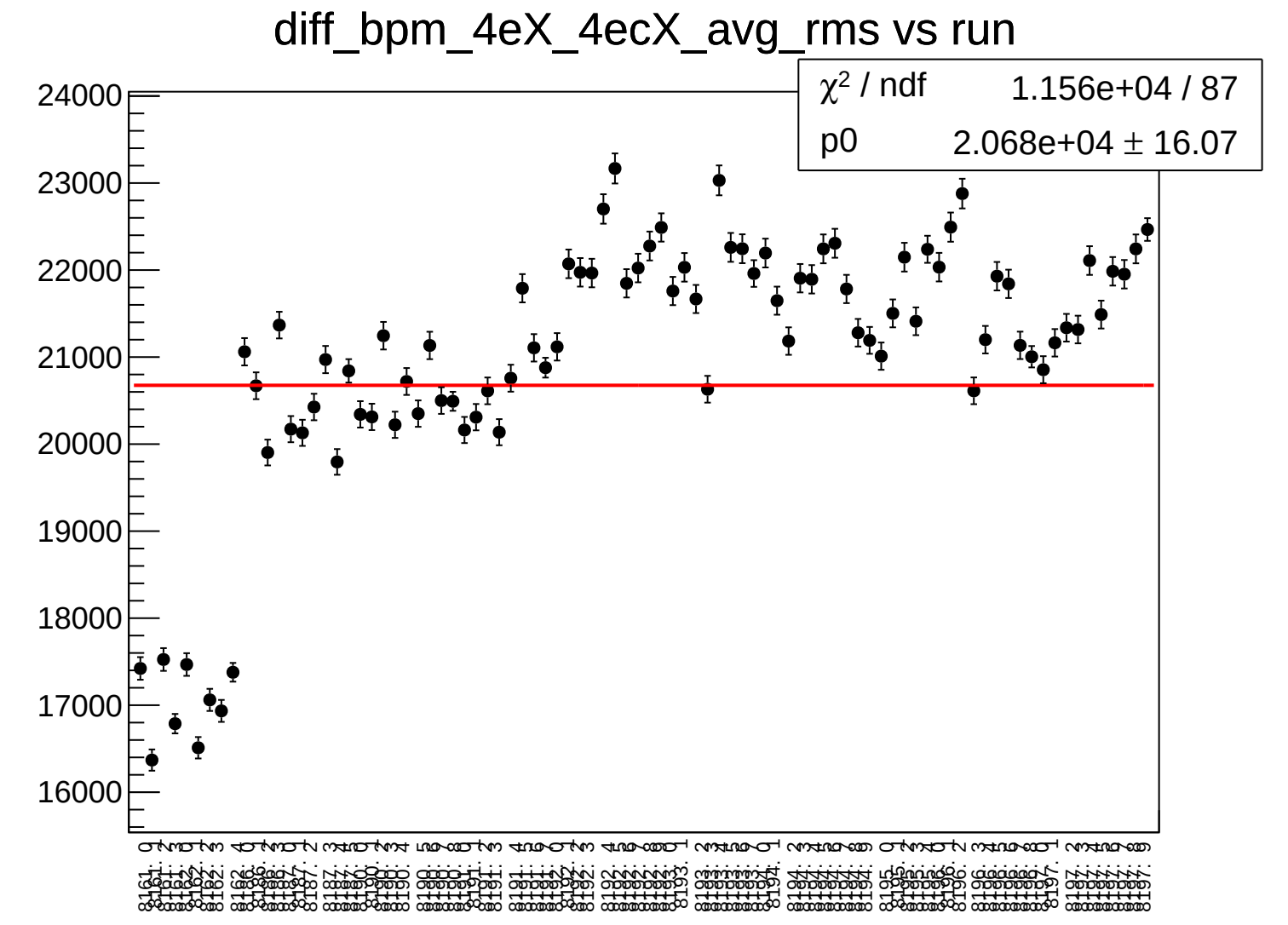

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.131e+04 / 87
p0 2.131e+04 ± 16.57
24000
23000
22000
21000
20000
19000
18000
17000

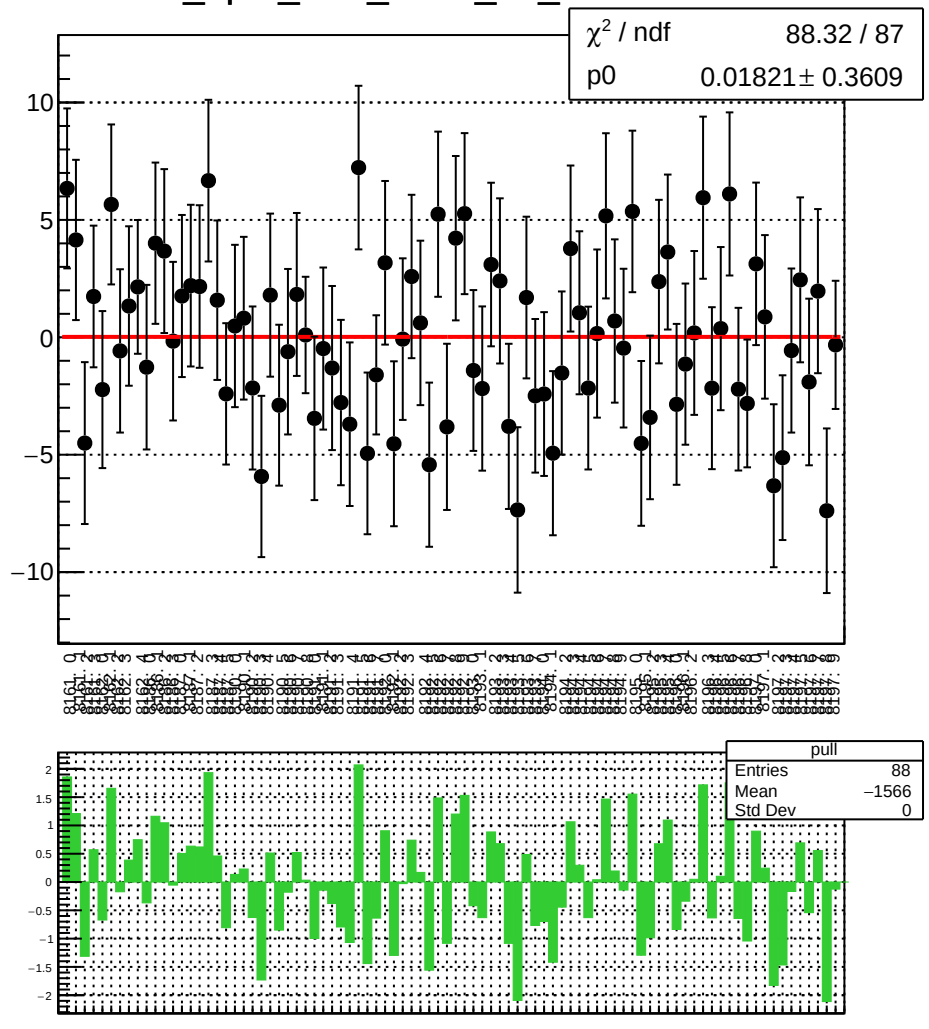

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 72.69 / 87
p0 −2.856 ± 0.7161
pull
Entries 88
Mean 602.4
Std Dev 0

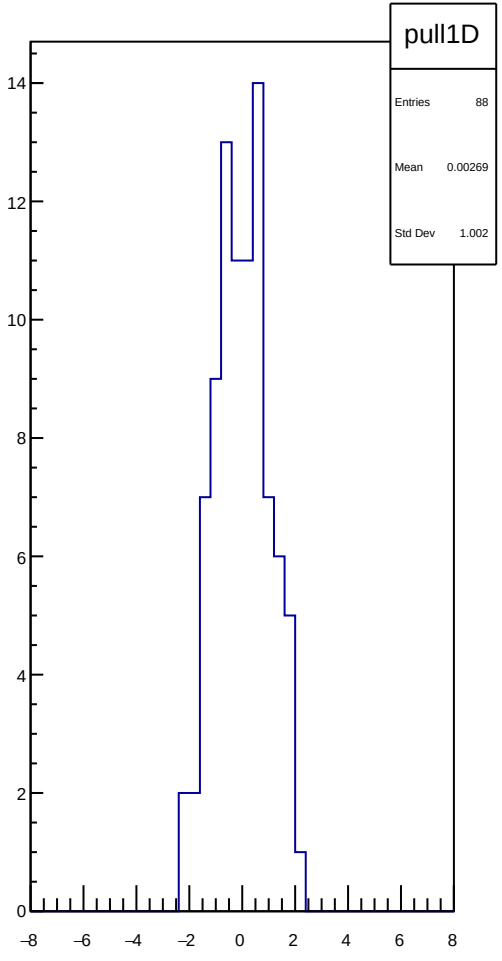

pull1D
Entries 88
Mean 0.003733
Std Dev 0.9089

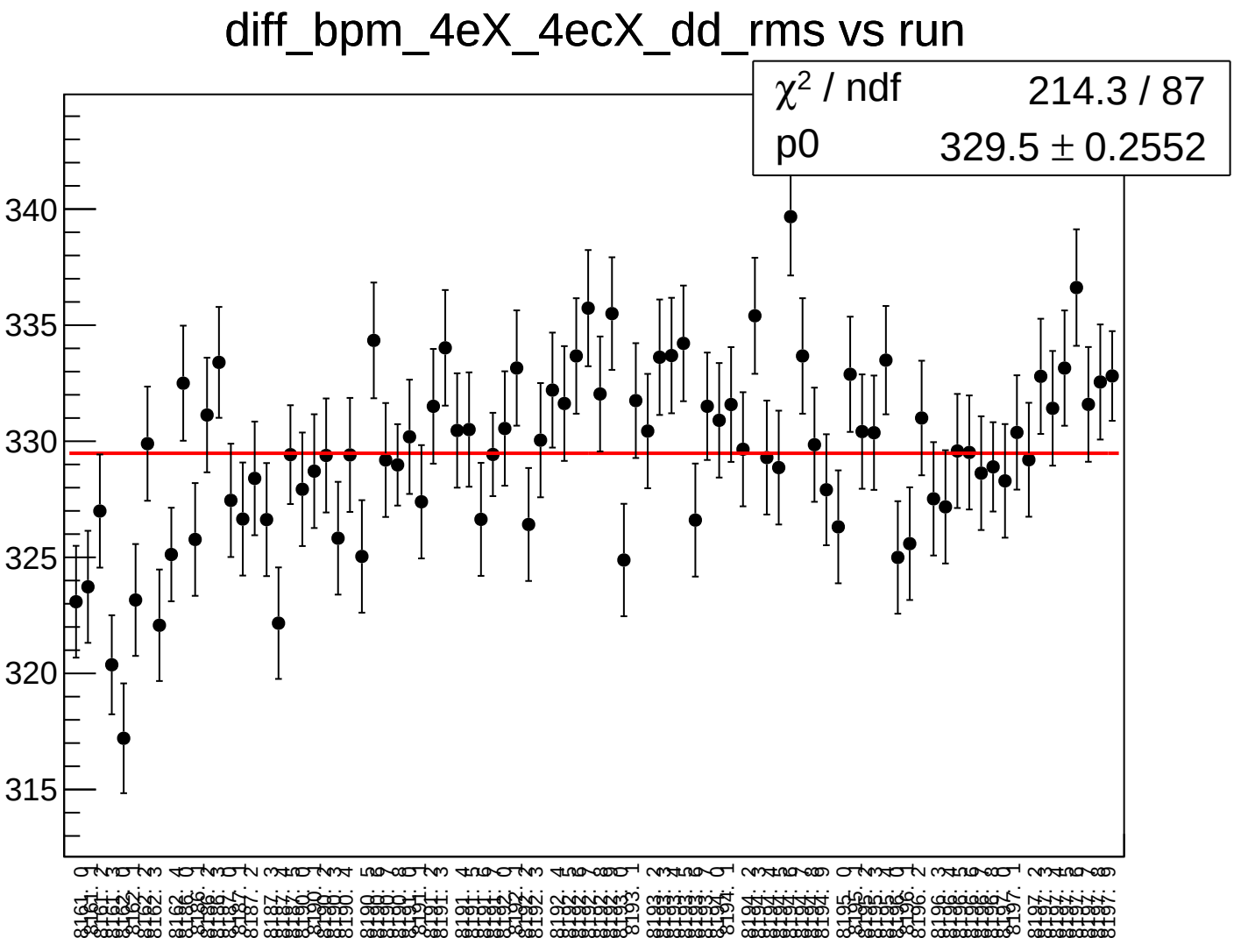

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1791 / 87
p0 653.4 ± 0.5063
720
700
680
660
640
620
600

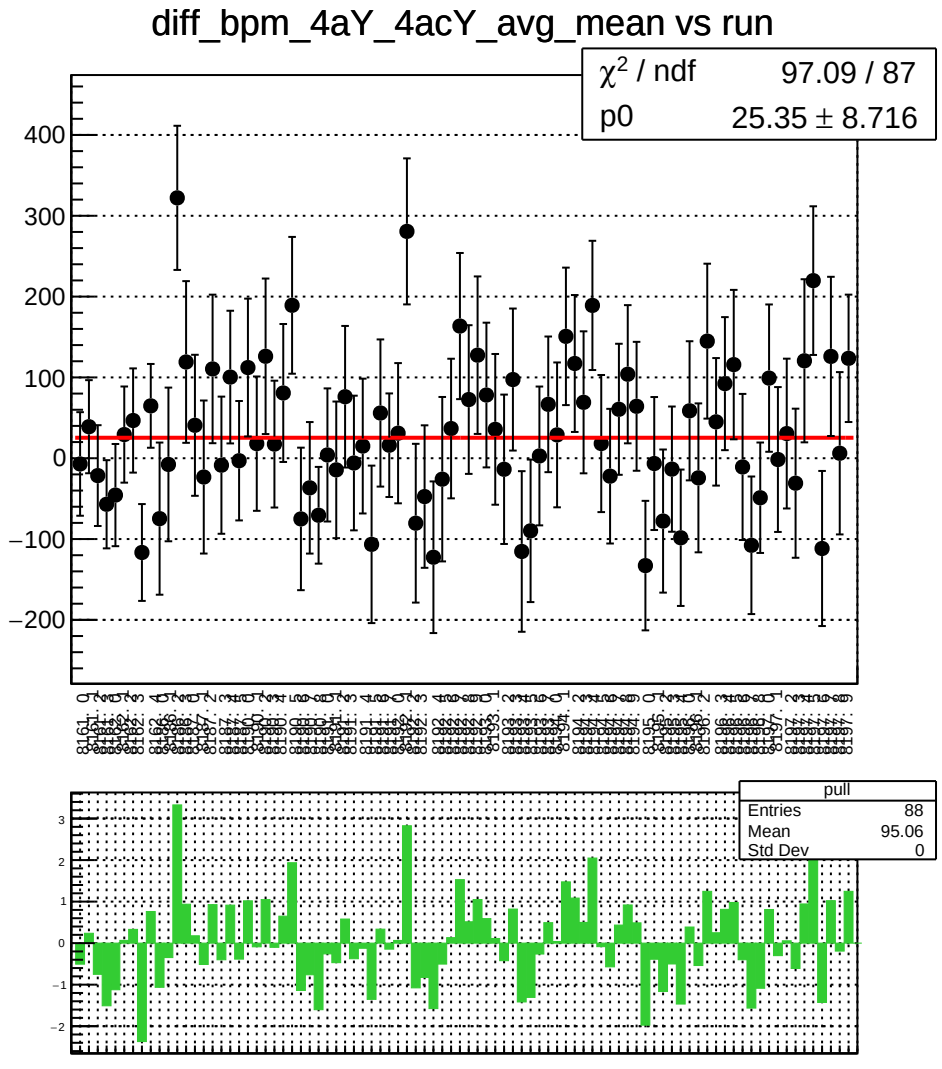

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 83.93 / 87
p0 −66.67 ± 22.73
pull
Entries 88
Mean 1354
Std Dev 0
pull1D
Entries 88
Mean 0.003048
Std Dev 0.9766

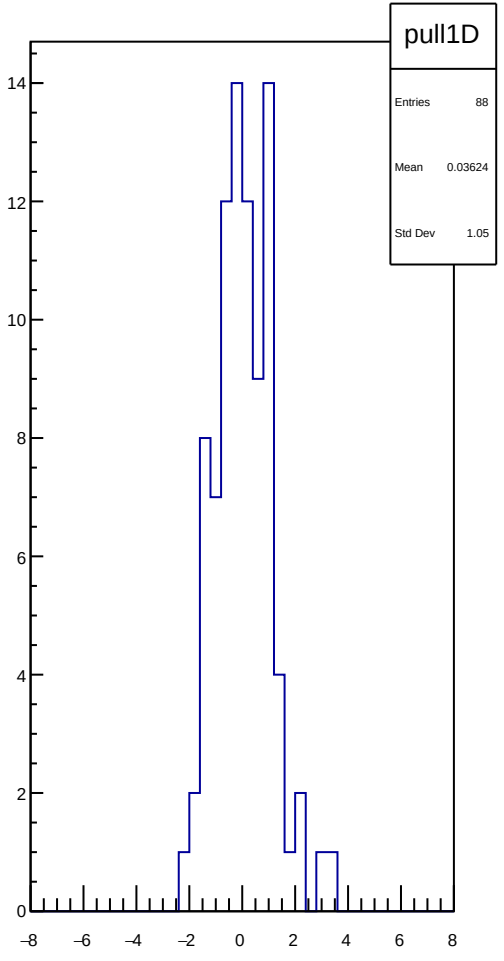

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.156e+04 / 87
p0 2.068e+04 ± 16.07
24000
23000
22000
21000
20000
19000
18000
17000
16000

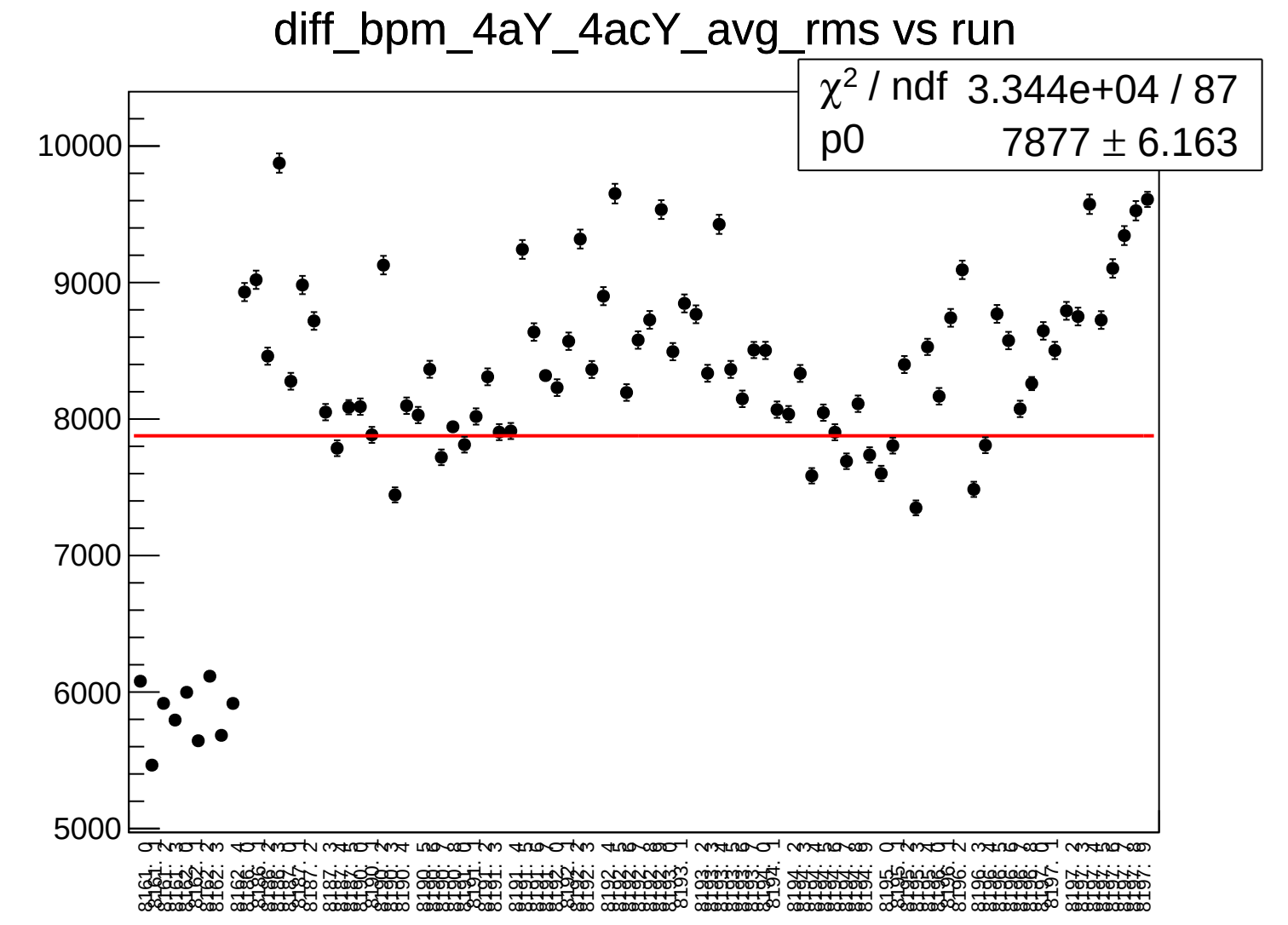

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 88.32 / 87
p0 0.01821 ± 0.3609
pull
Entries 88
Mean −1566
Std Dev 0

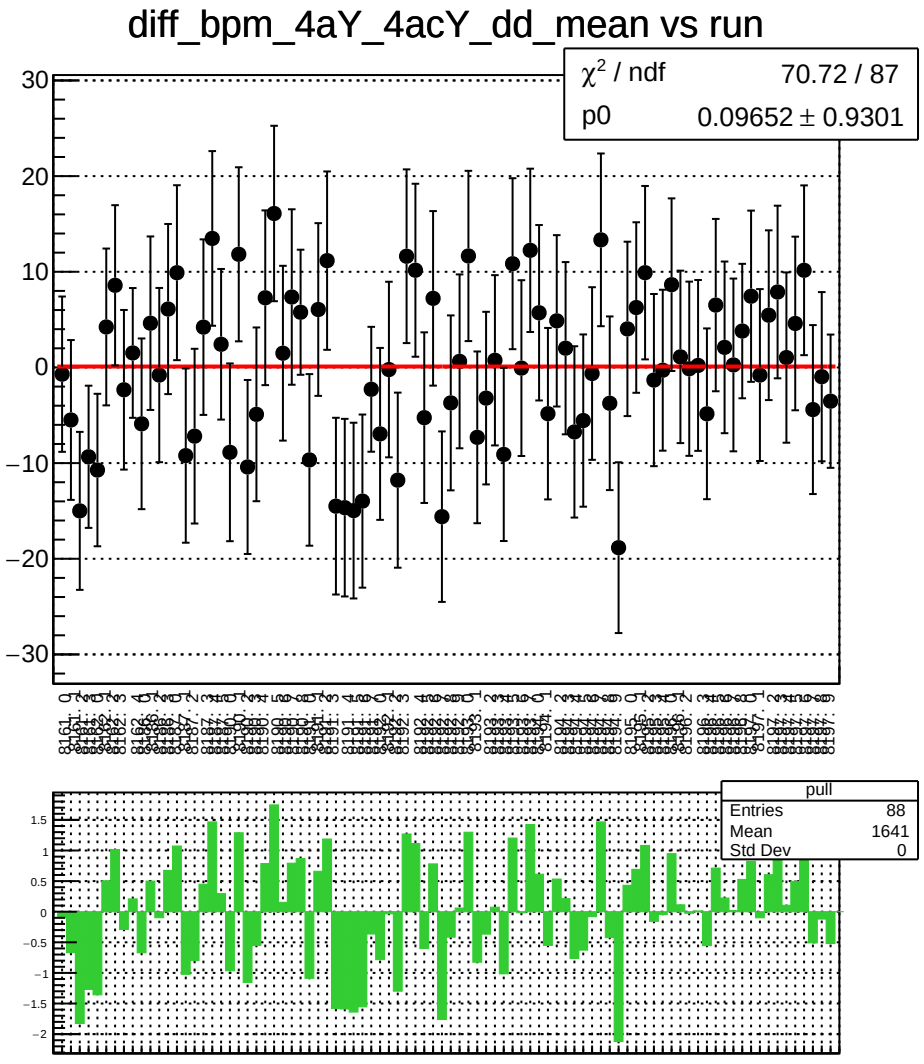

pull1D
Entries 88
Mean 0.00269
Std Dev 1.002

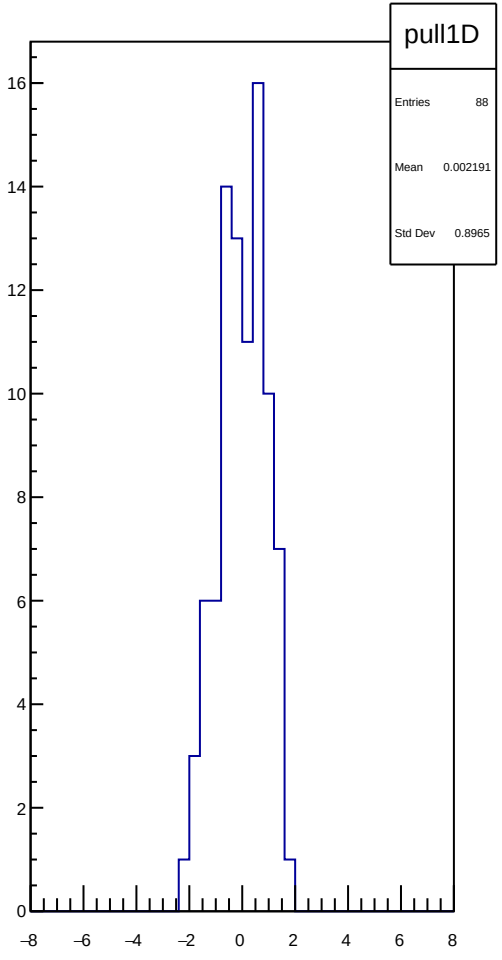

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 214.3 / 87
p0 329.5 ± 0.2552
340
335
330
325
320
315

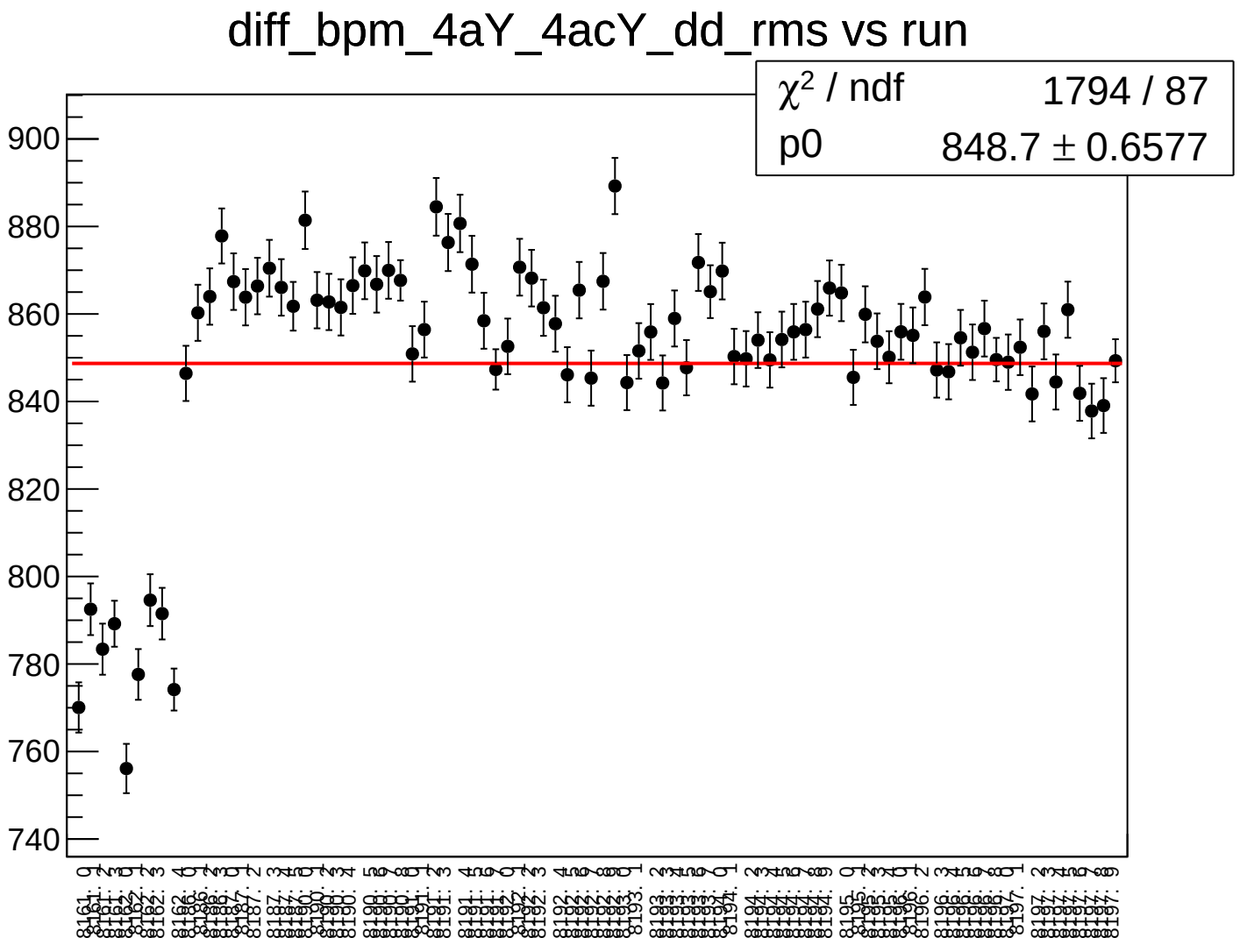

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 97.09 / 87
p0 25.35 ± 8.716
400
300
200
100
0
−100
−200
pull
Entries 88
Mean 95.06
Std Dev 0
3
2
1
0
−1
−2

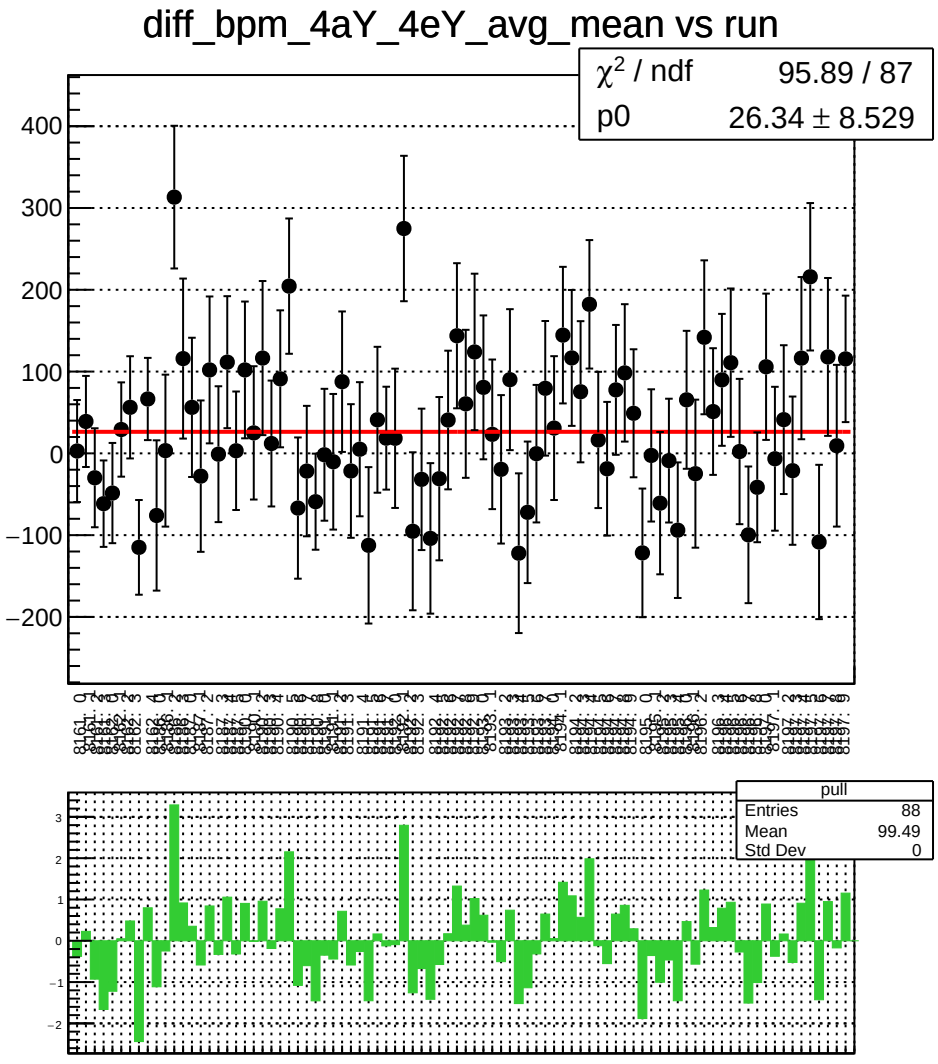

pull1D
Entries 88
Mean 0.03624
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

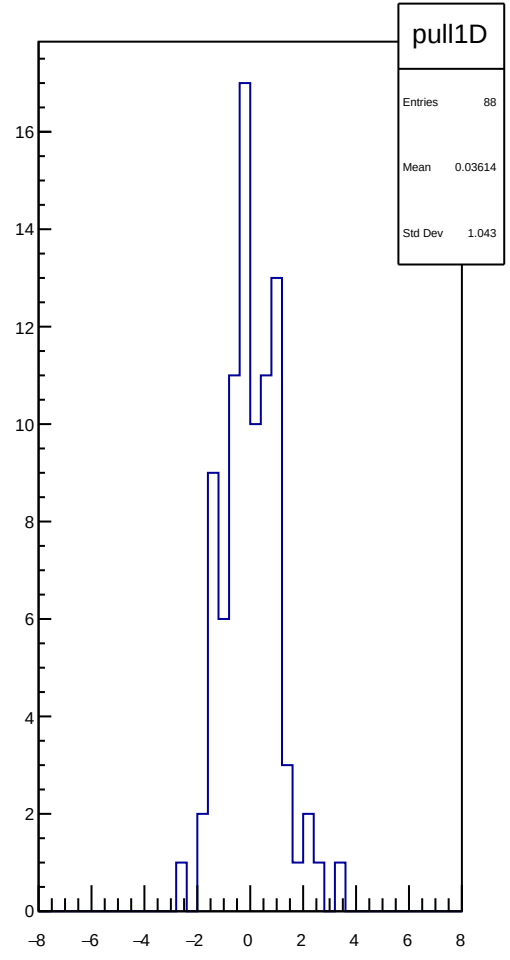

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 3.344e+04 / 87
p0 7877 ± 6.163
10000
9000
8000
7000
6000
5000

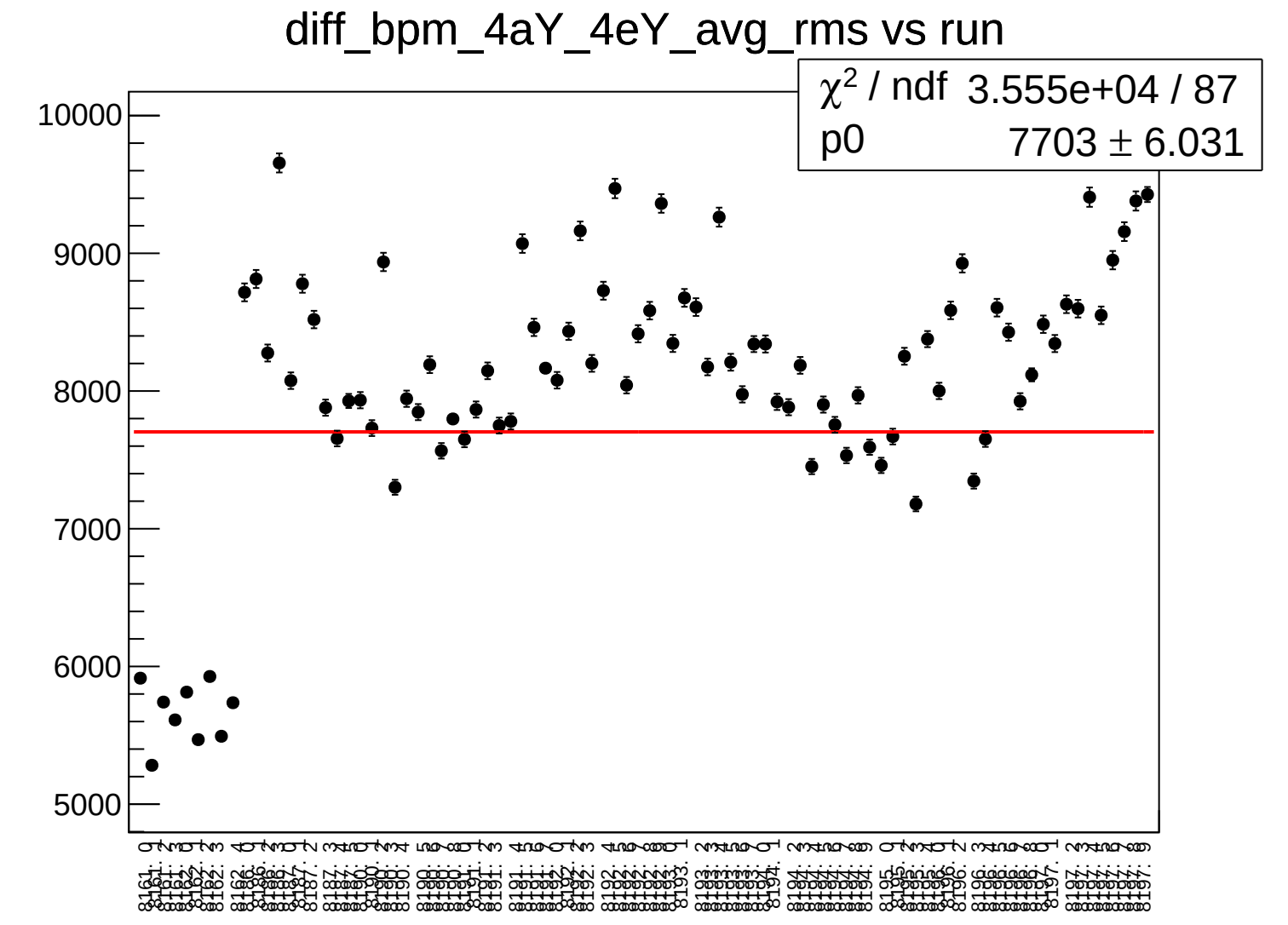

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 70.72 / 87
p0 0.09652 ± 0.9301
pull
Entries 88
Mean 1641
Std Dev 0

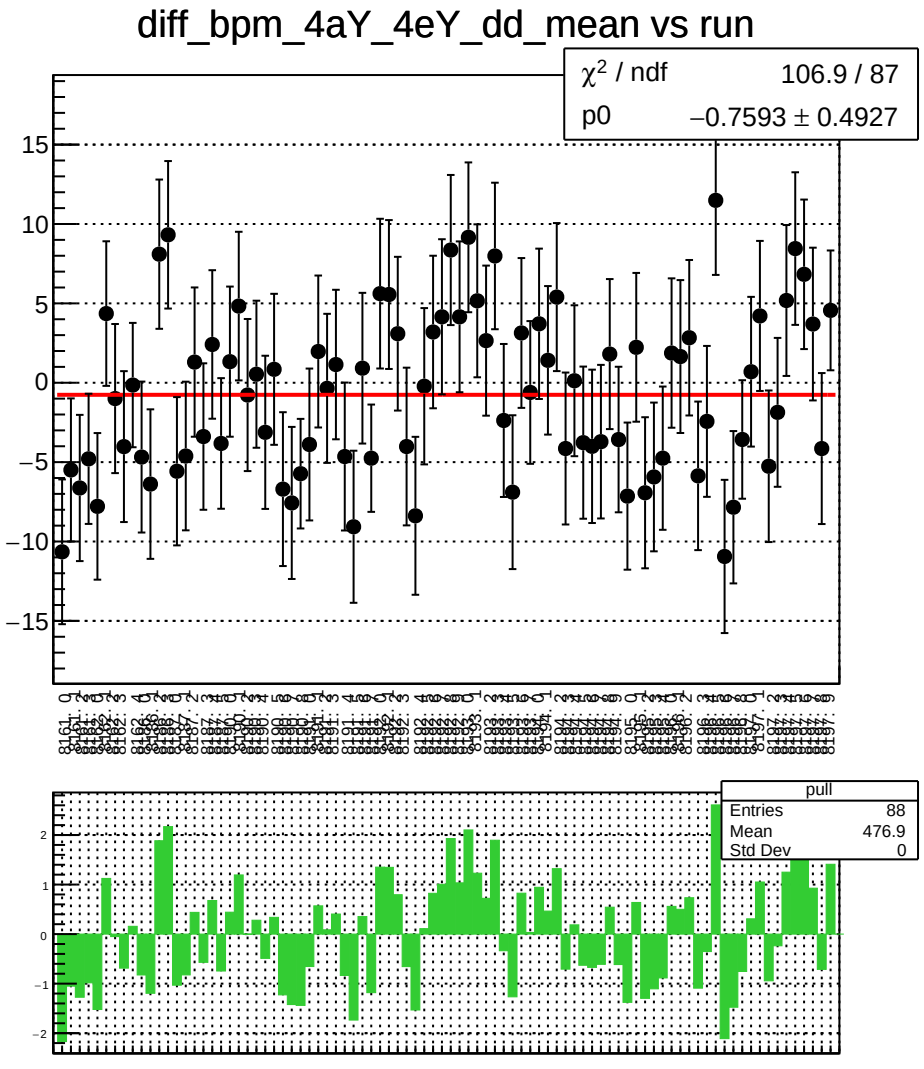

pull1D
Entries 88
Mean 0.002191
Std Dev 0.8965

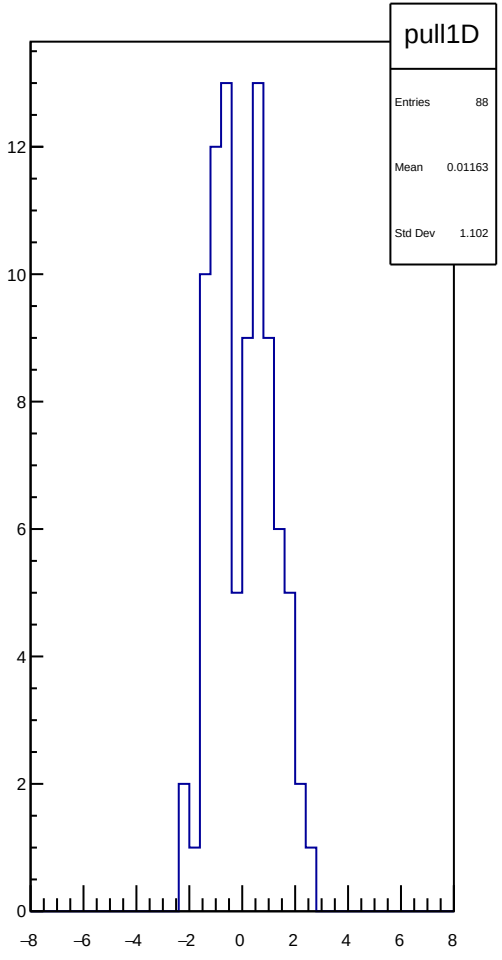

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 1794 / 87
p0 848.7 ± 0.6577
900
880
860
840
820
800
780
760
740

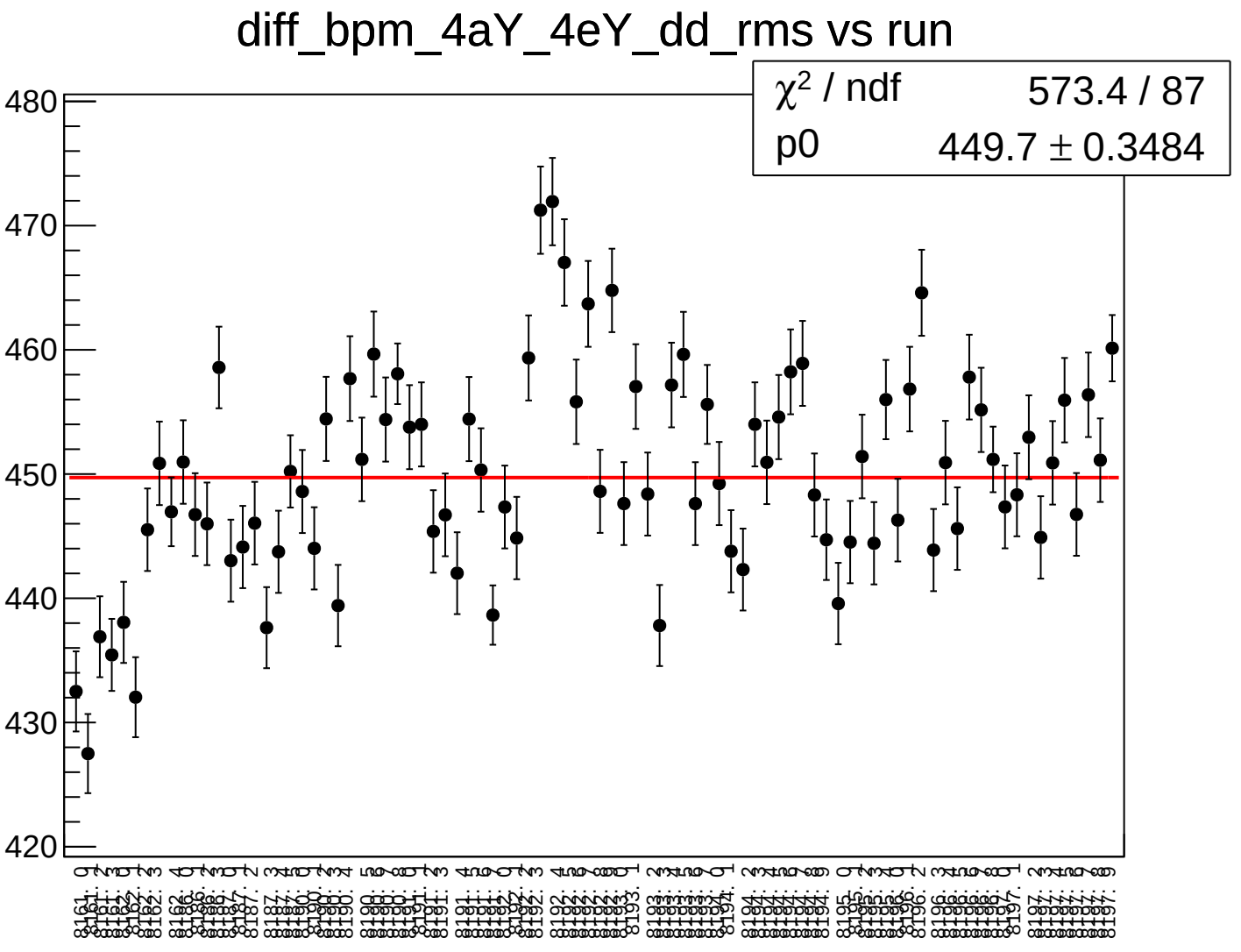

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 95.89 / 87
p0 26.34 ± 8.529
pull
Entries 88
Mean 99.49
Std Dev 0

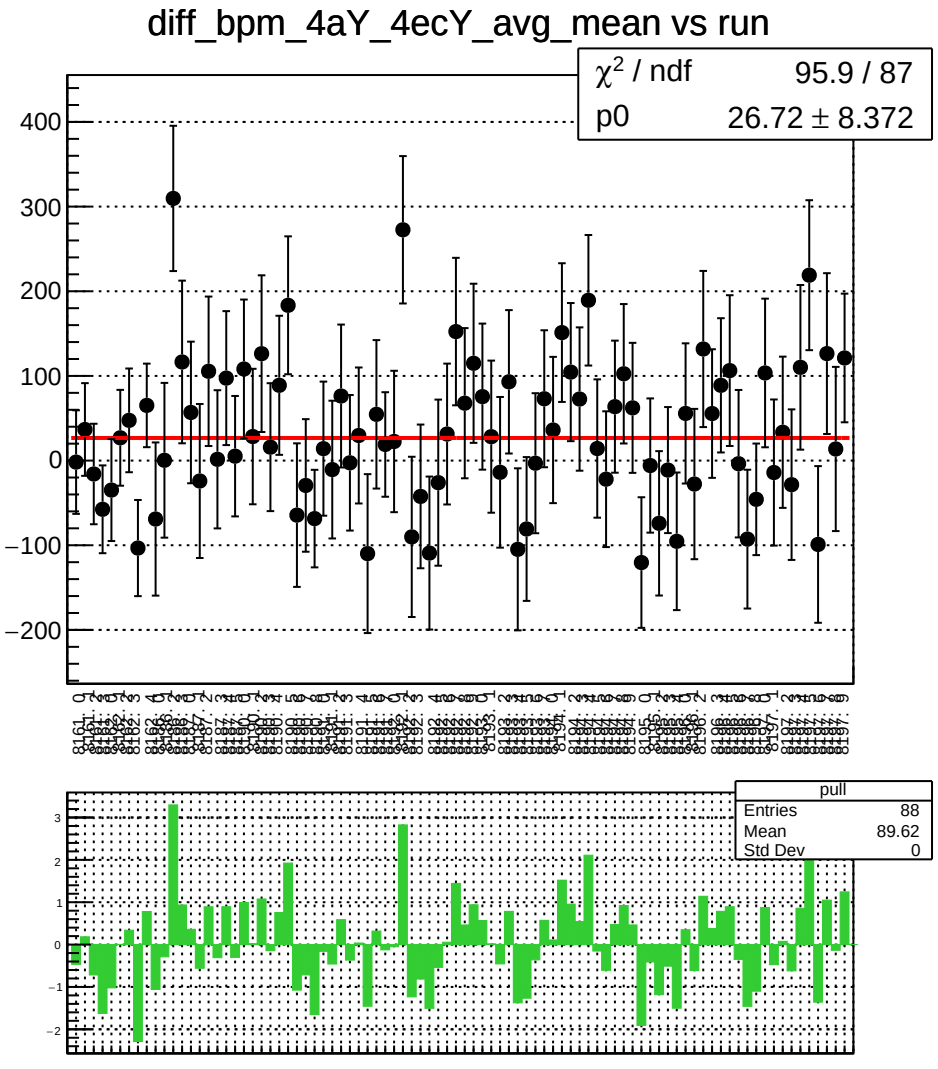

pull1D
Entries 88
Mean 0.03614
Std Dev 1.043

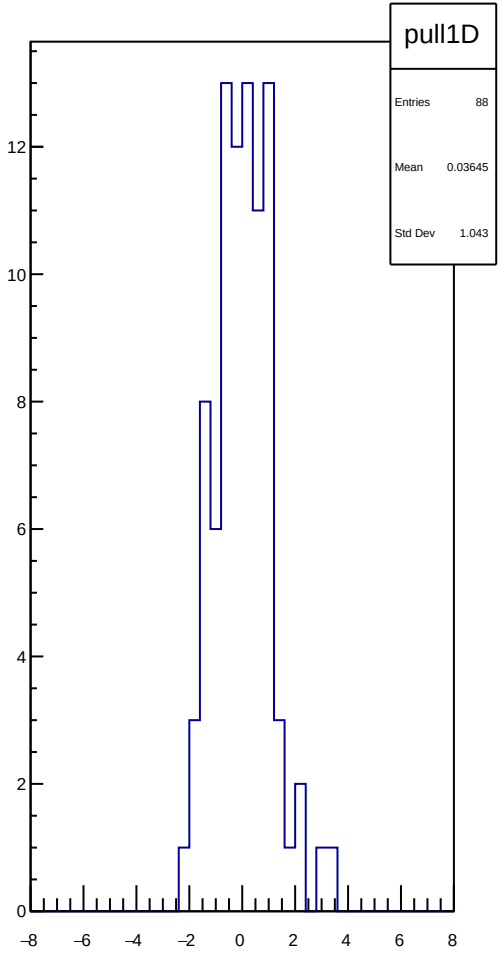

diff_bpm_4aY_4eY_avg_rms vs run
χ^2 / ndf 3.555e+04 / 87
p0 7703 ± 6.031
10000
9000
8000
7000
6000
5000

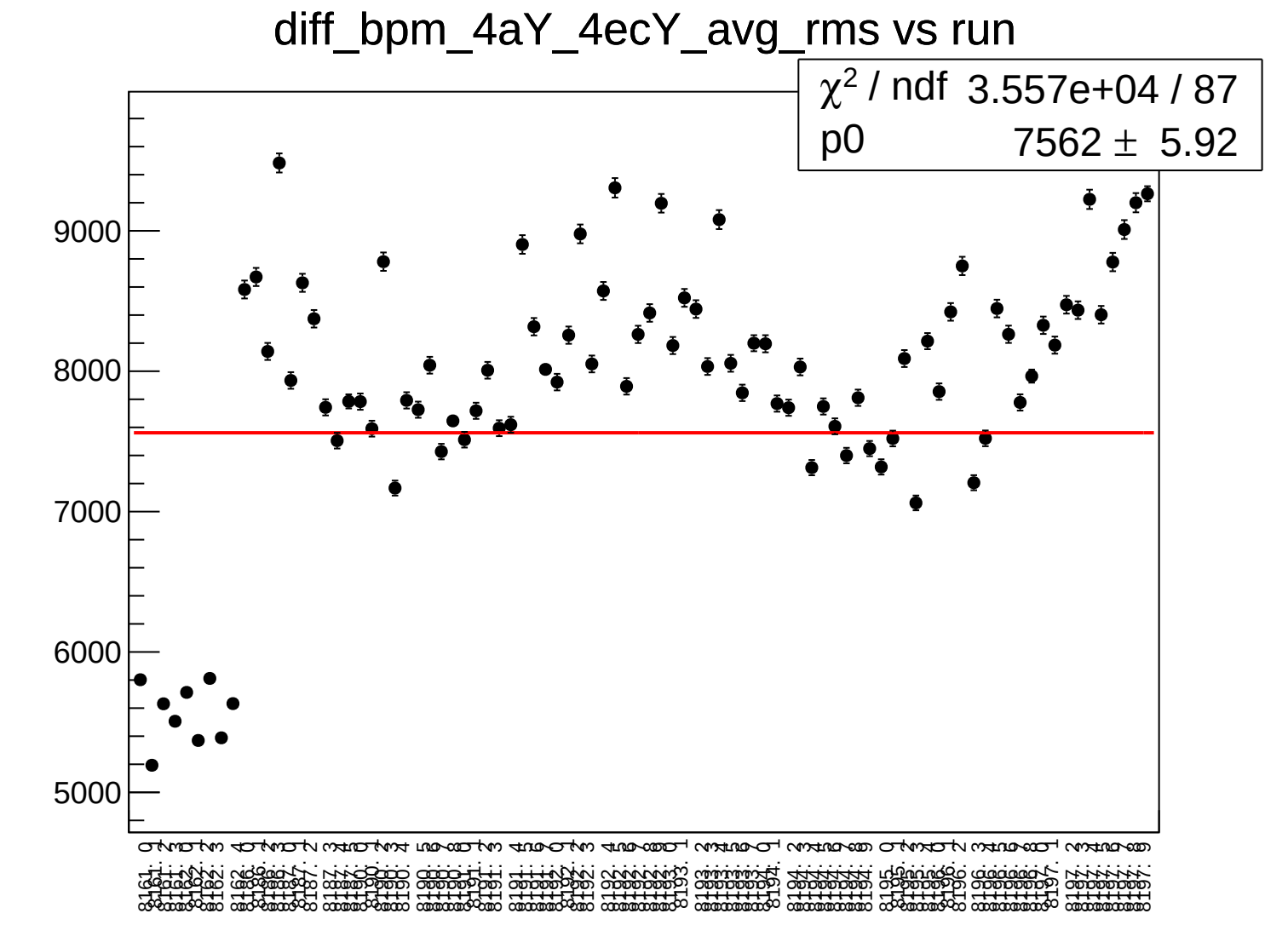

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 106.9 / 87
p0 −0.7593 ± 0.4927
pull
Entries 88
Mean 476.9
Std Dev 0

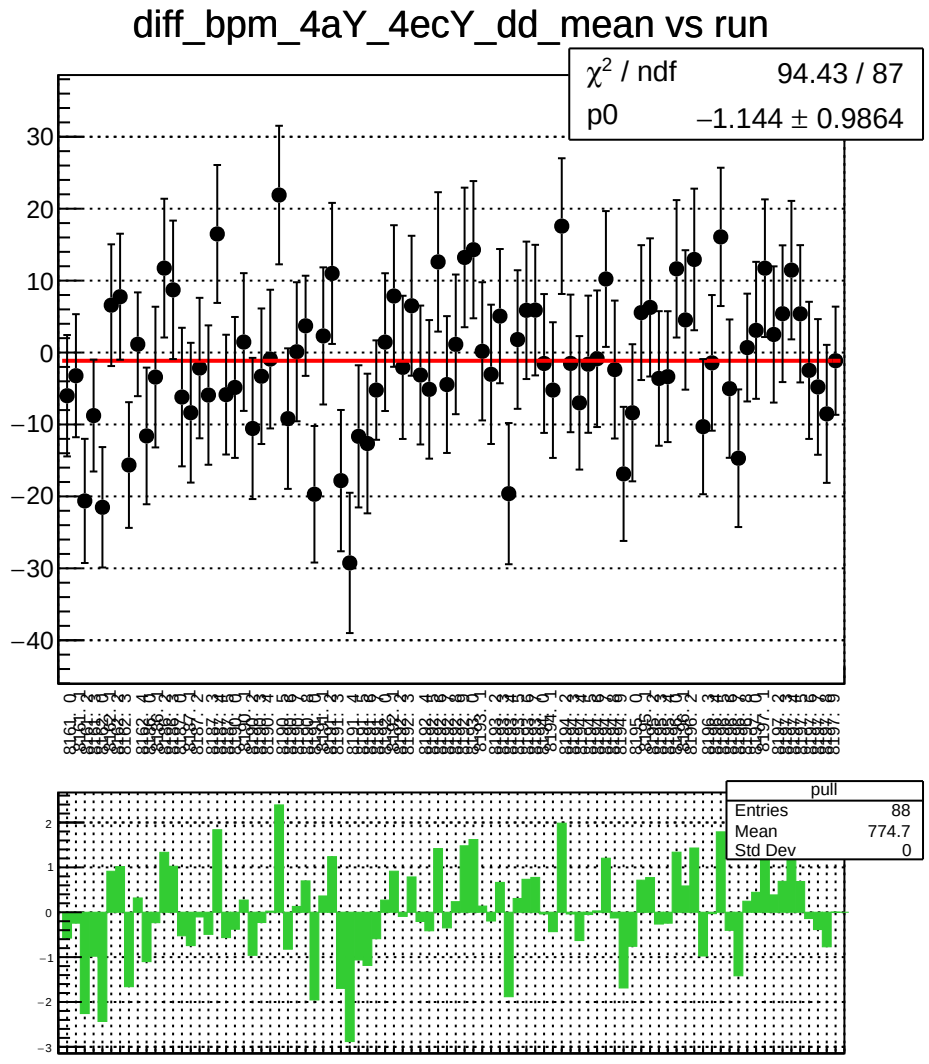

pull1D
Entries 88
Mean 0.01163
Std Dev 1.102

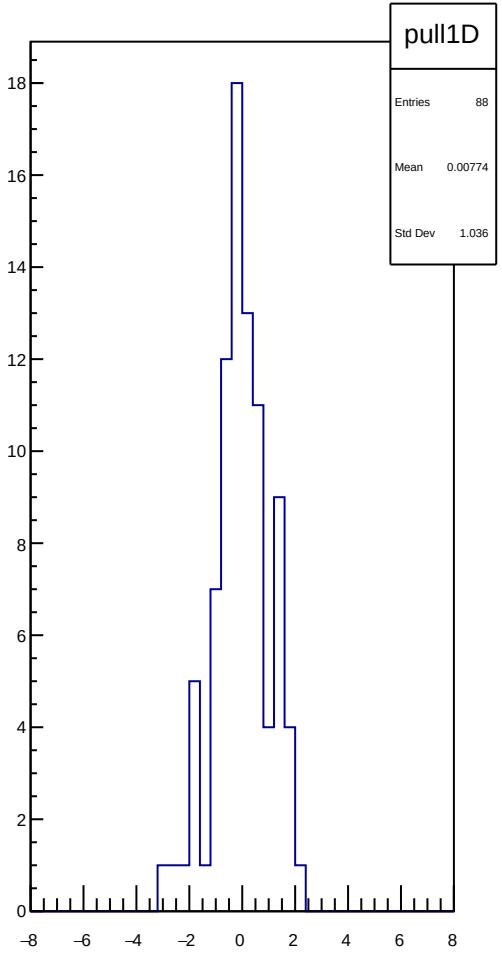

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 573.4 / 87
p0 449.7 ± 0.3484
480
470
460
450
440
430
420

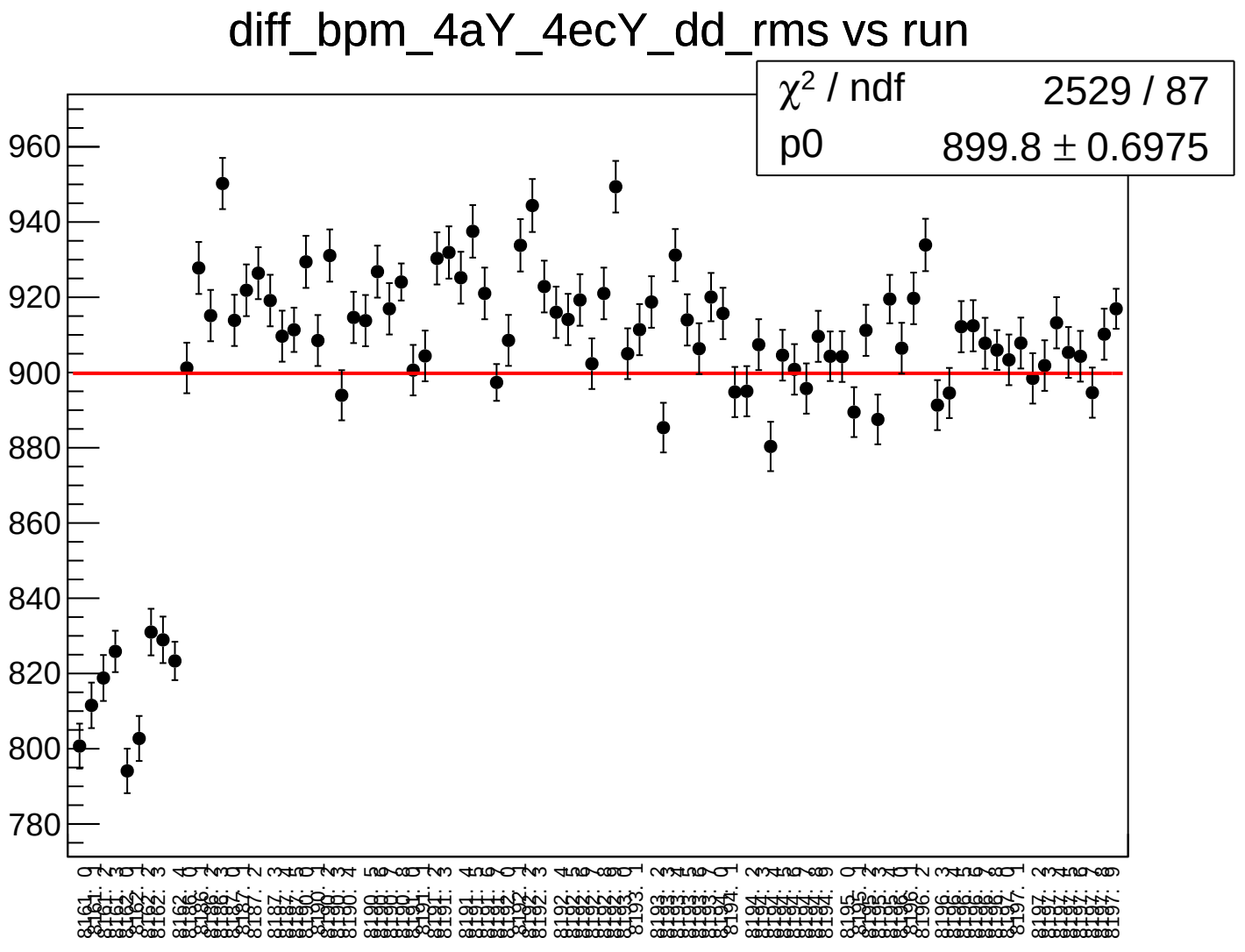

diff_bpm_4aY_4ecY_avg_mean vs run
χ^2 / ndf 95.9 / 87
p0 26.72 ± 8.372
400
300
200
100
0
−100
−200
pull
Entries 88
Mean 89.62
Std Dev 0
3
2
1
0
−1
−2

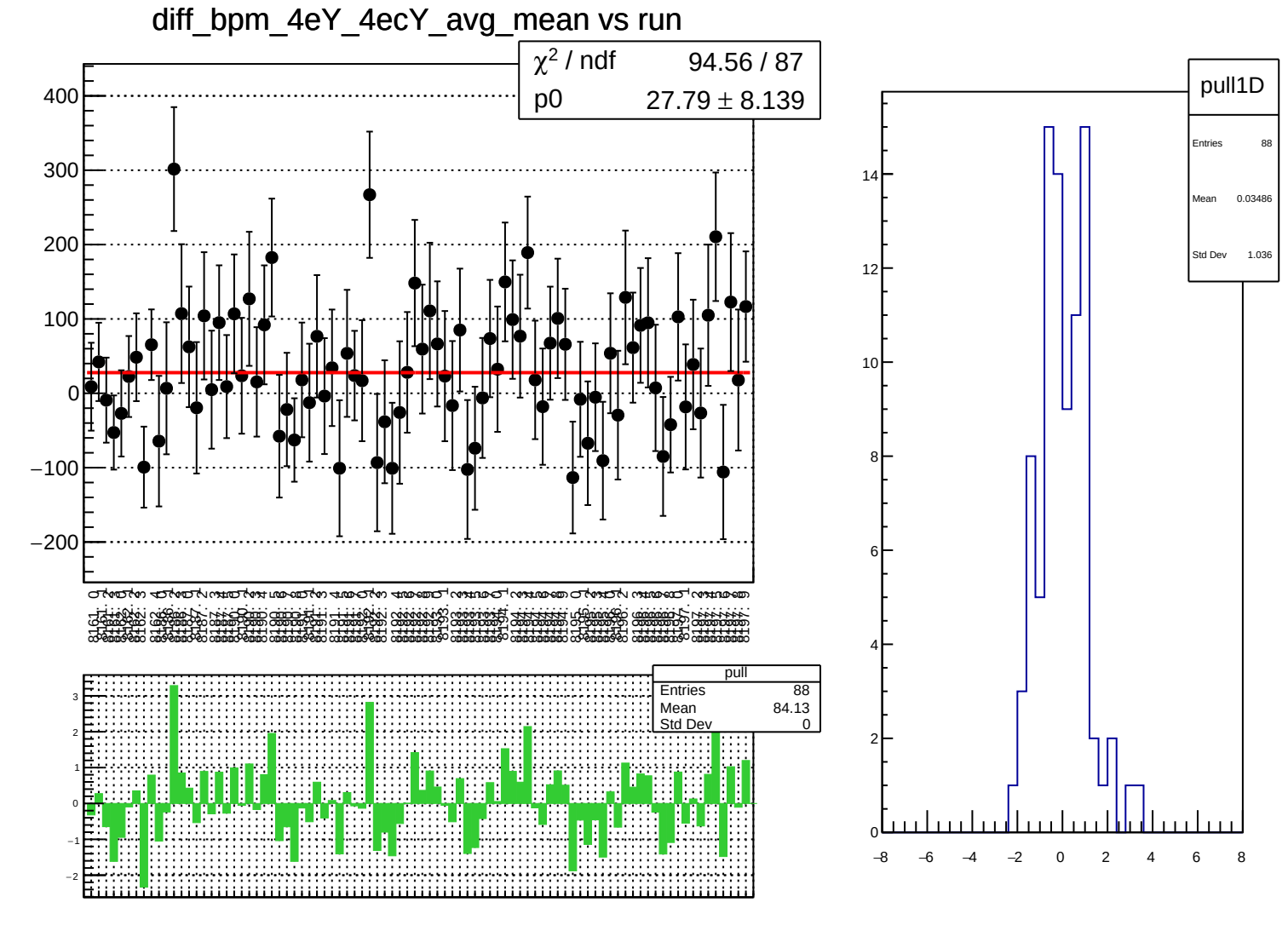

pull1D
Entries 88
Mean 0.03645
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

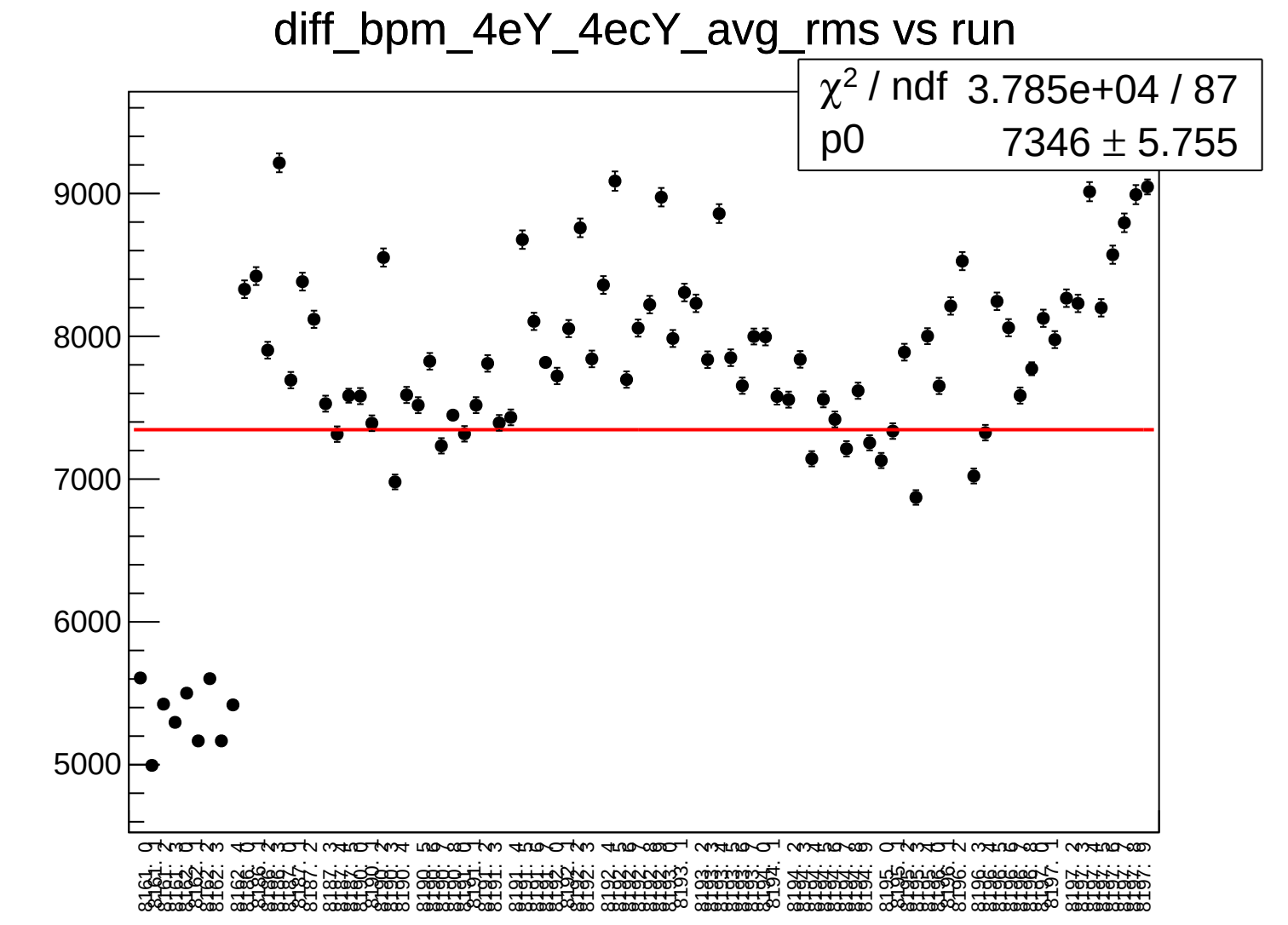

diff_bpm_4aY_4ecY_avg_rms vs run
χ^2 / ndf 3.557e+04 / 87
p0 7562 ± 5.92
9000
8000
7000
6000
5000

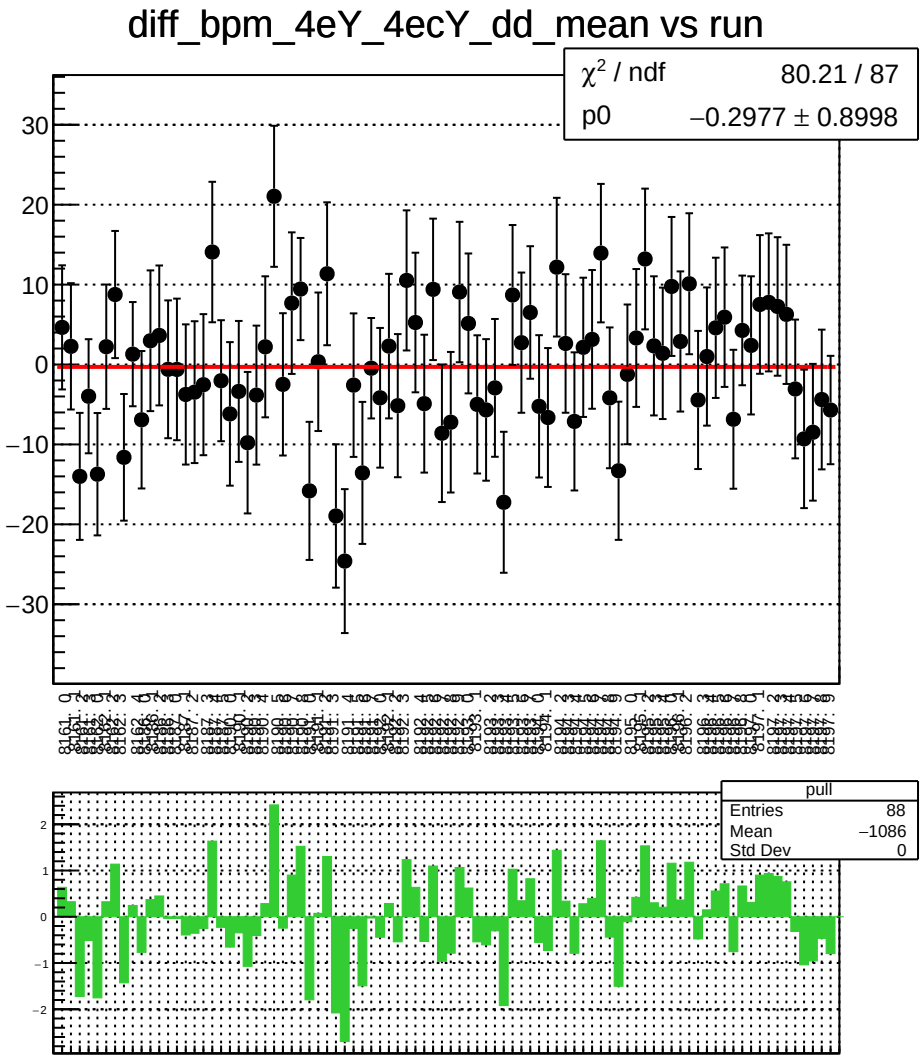

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 94.43 / 87
p0 −1.144 ± 0.9864
pull
Entries 88
Mean 774.7
Std Dev 0

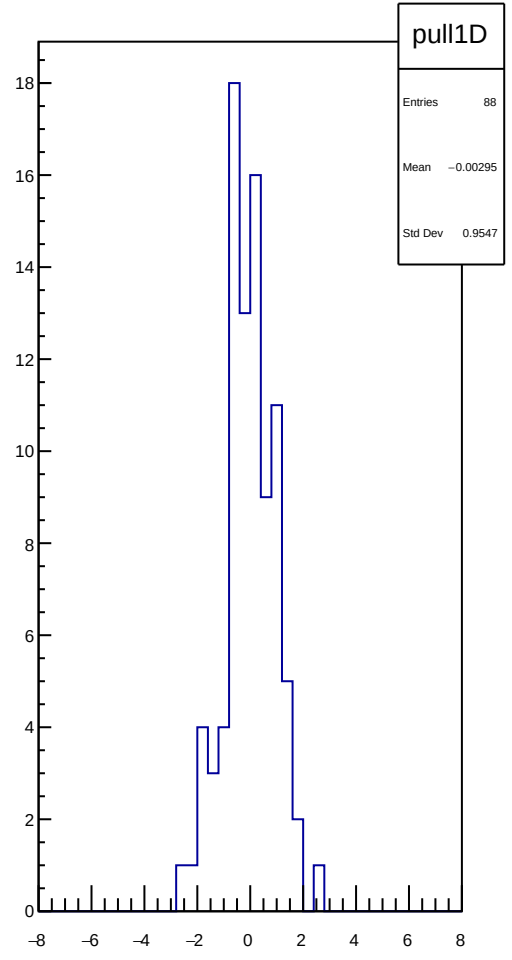

pull1D
Entries 88
Mean 0.00774
Std Dev 1.036

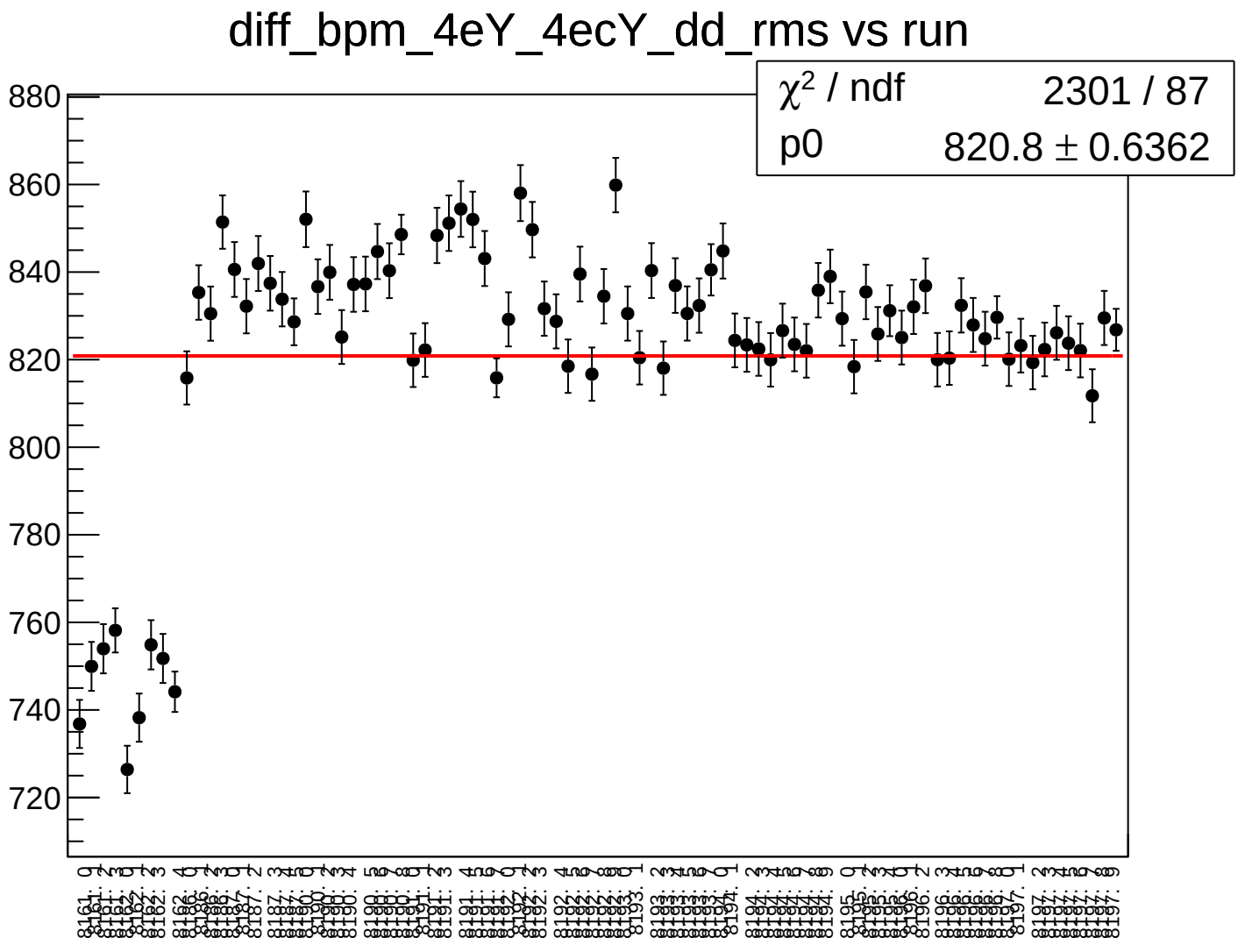

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2529 / 87
p0 899.8 ± 0.6975
960
940
920
900
880
860
840
820
800
780

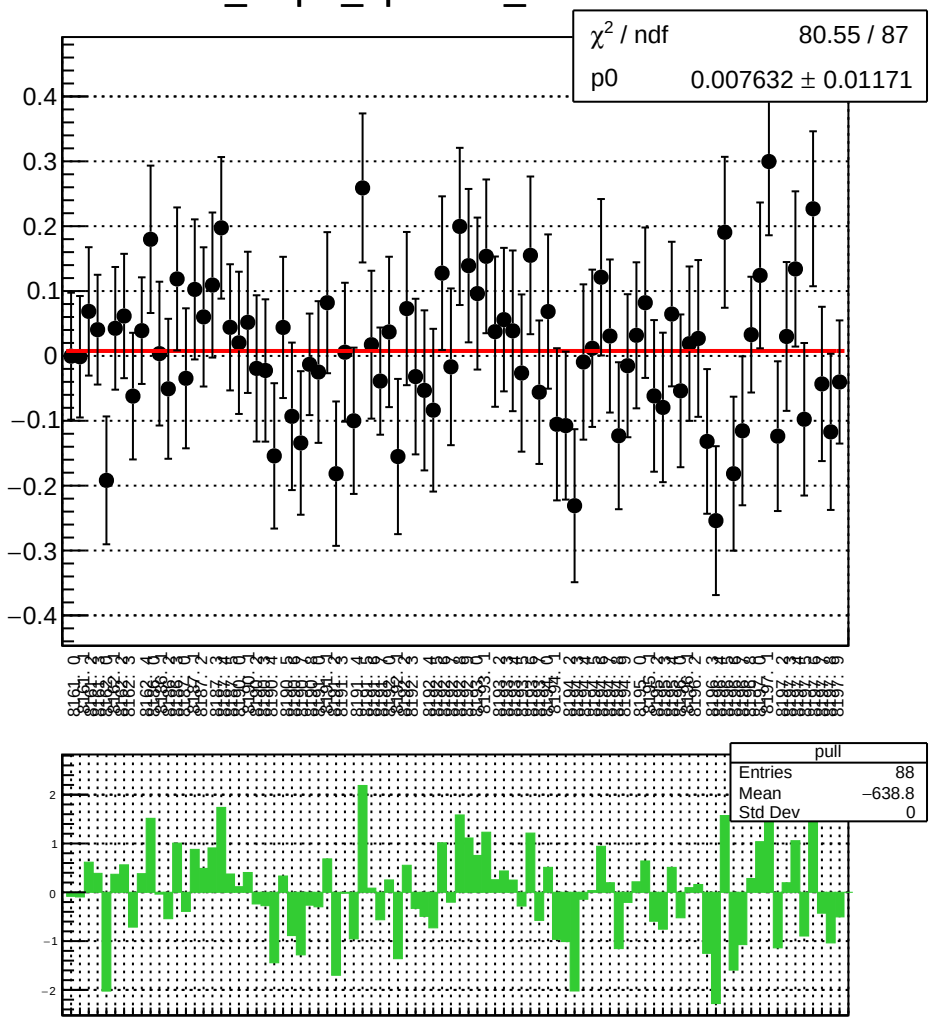

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 94.56 / 87
p0 27.79 ± 8.139
pull
Entries 88
Mean 84.13
Std Dev 0
pull1D
Entries 88
Mean 0.03486
Std Dev 1.036

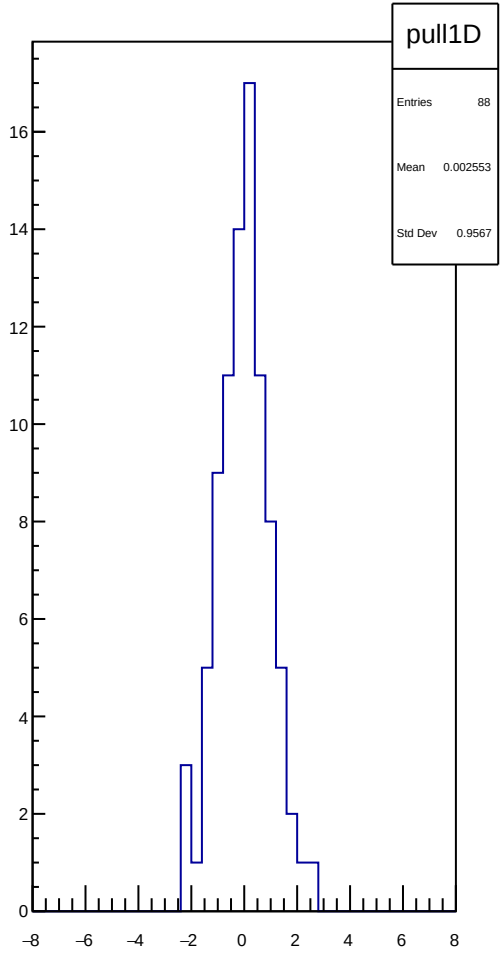

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3.785e+04 / 87
p0 7346 ± 5.755
9000
8000
7000
6000
5000

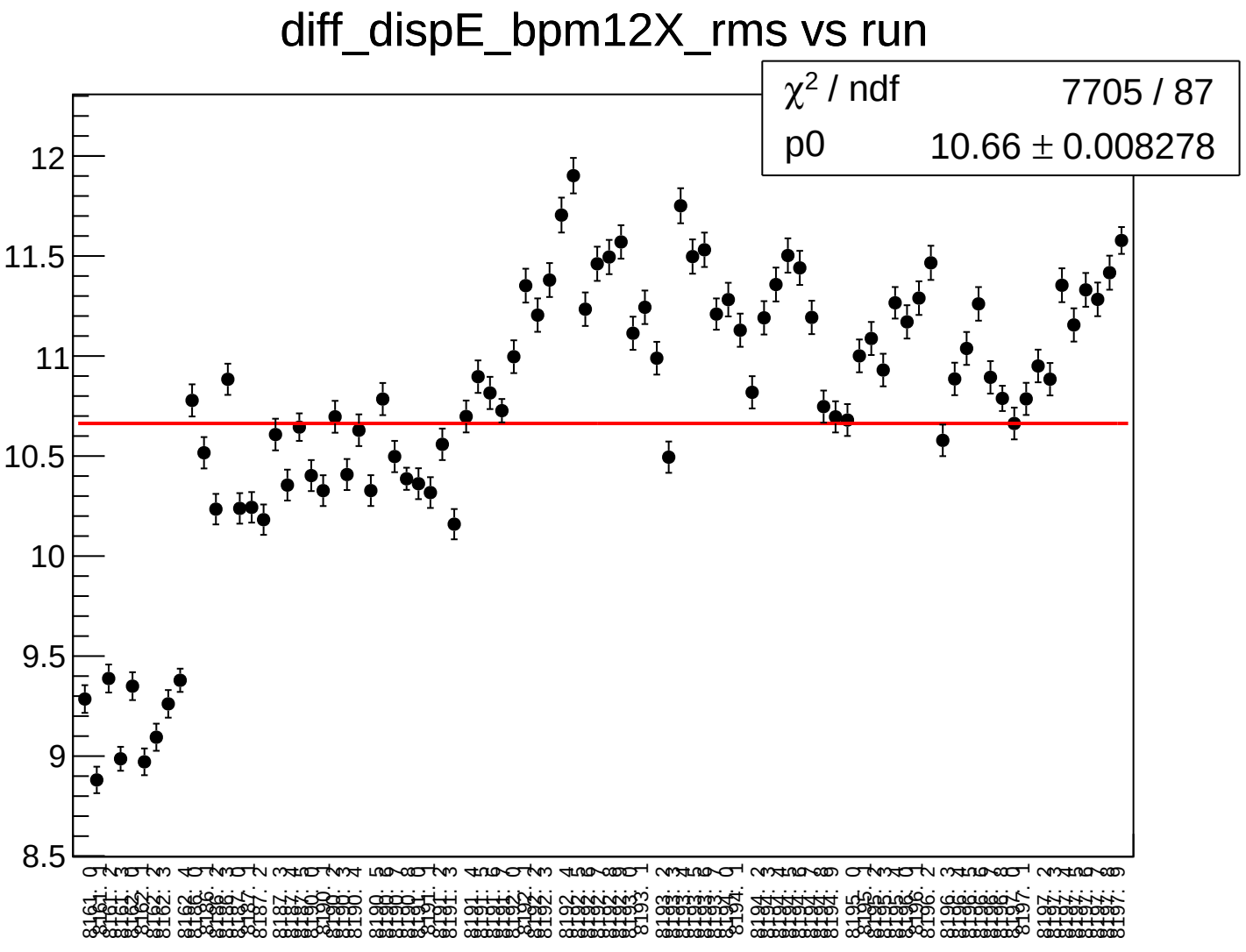

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 80.21 / 87
p0 −0.2977 ± 0.8998
pull
Entries 88
Mean −1086
Std Dev 0

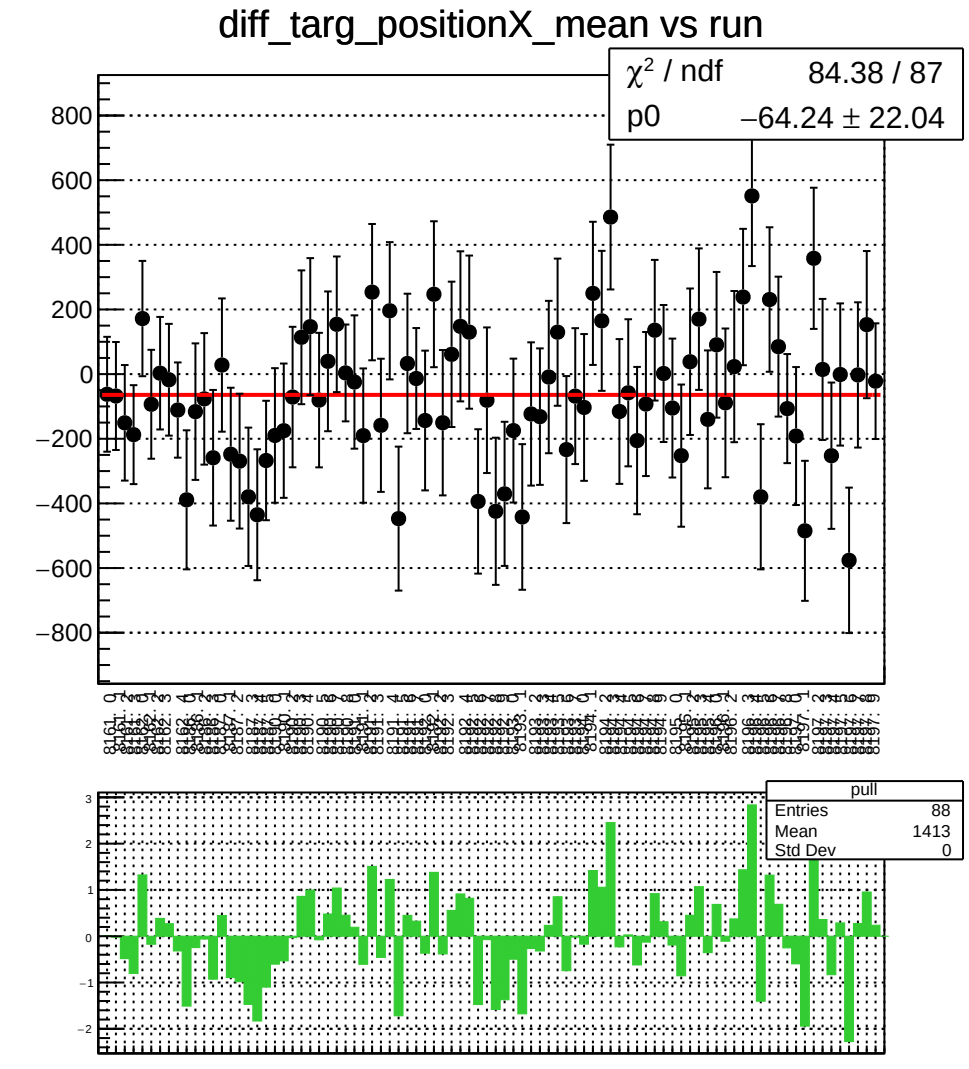

pull1D
Entries 88
Mean −0.00295
Std Dev 0.9547

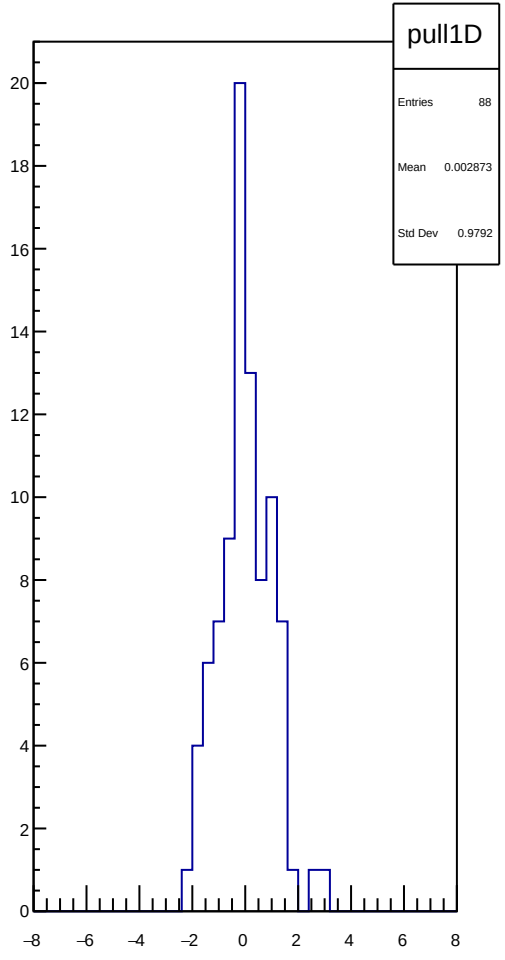

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 2301 / 87
p0 820.8 ± 0.6362
880
860
840
820
800
780
760
740
720

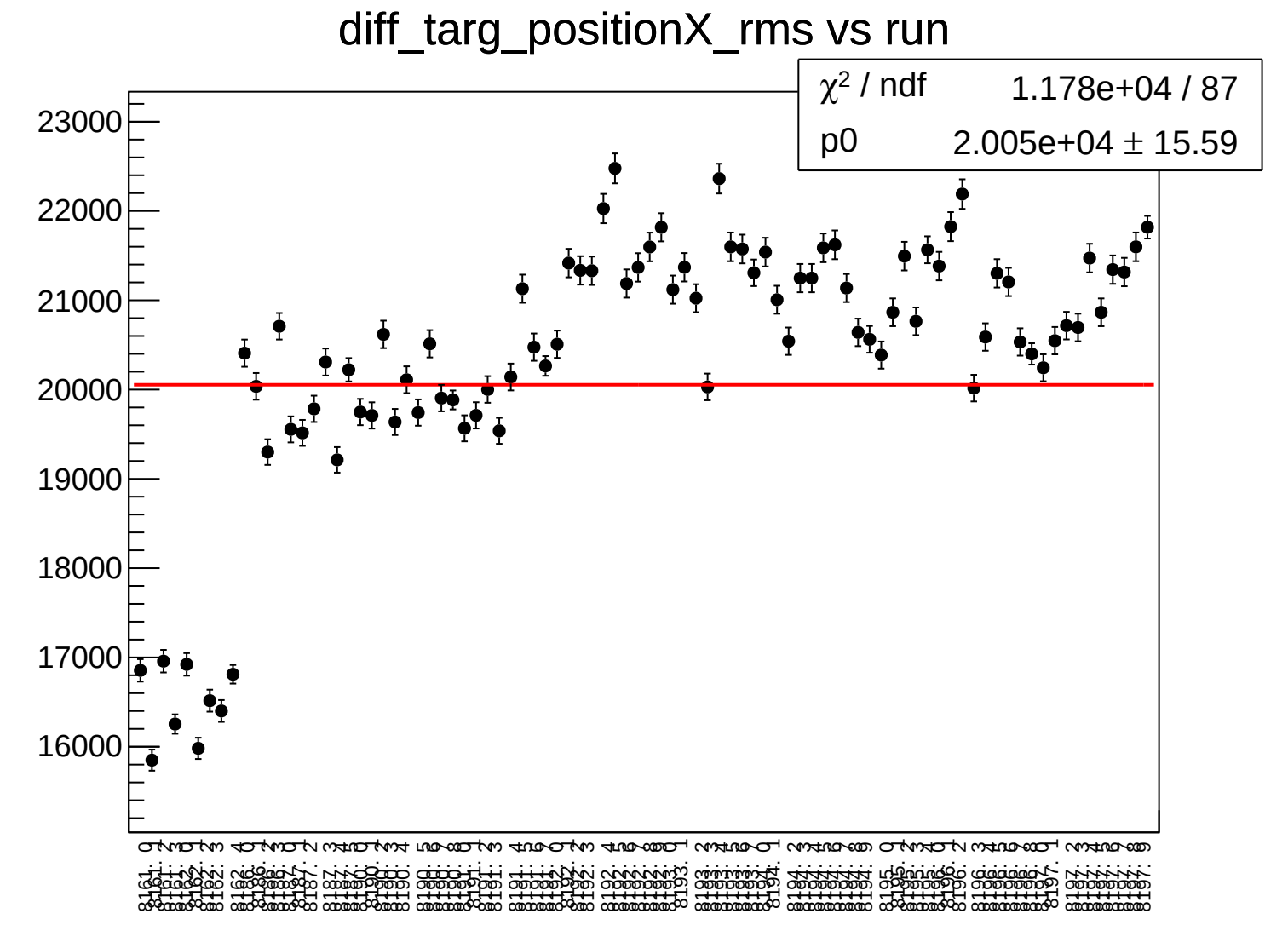

diff_dispE_bpm12X_mean vs run
χ² / ndf 80.55 / 87
p0 0.007632 ± 0.01171
pull
Entries 88
Mean −638.8
Std Dev 0

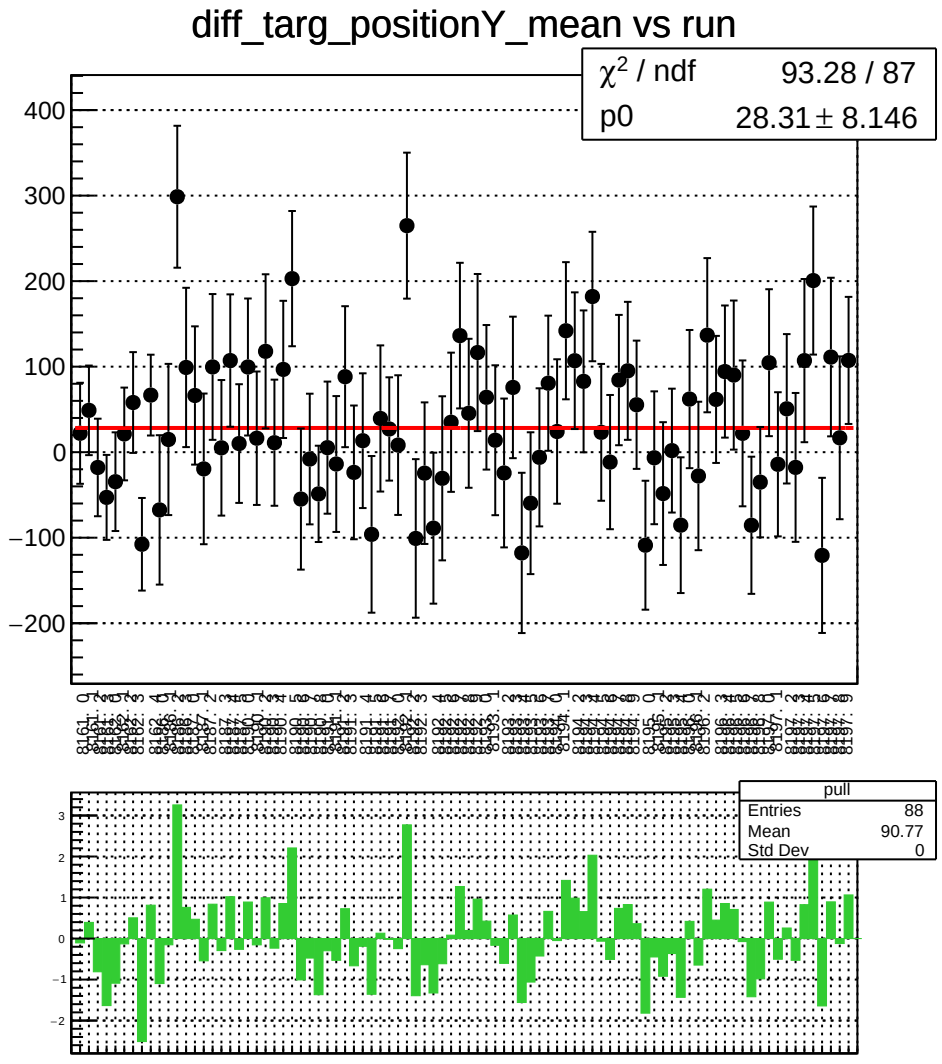

pull1D
Entries 88
Mean 0.002553
Std Dev 0.9567

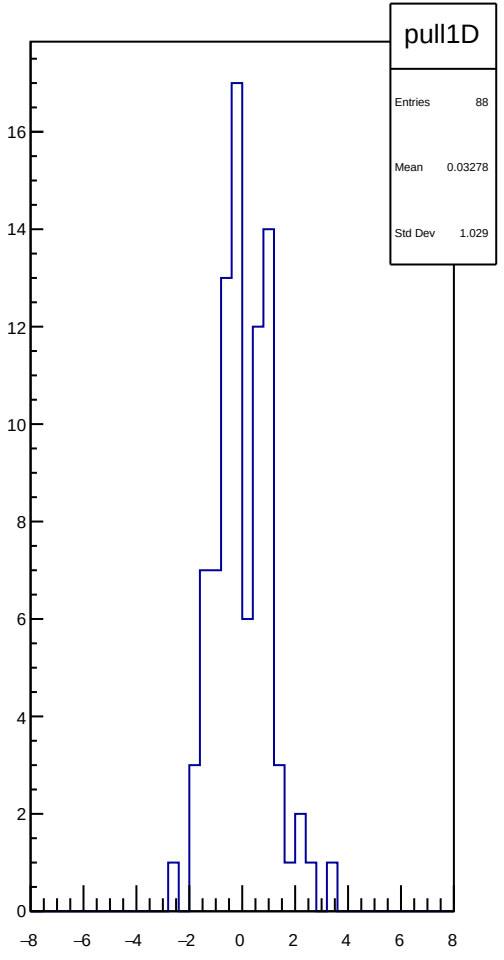

diff_dispE_bpm12X_rms vs run
χ² / ndf 7705 / 87
p0 10.66 ± 0.008278
12
11.5
11
10.5
10
9.5
9
8.5

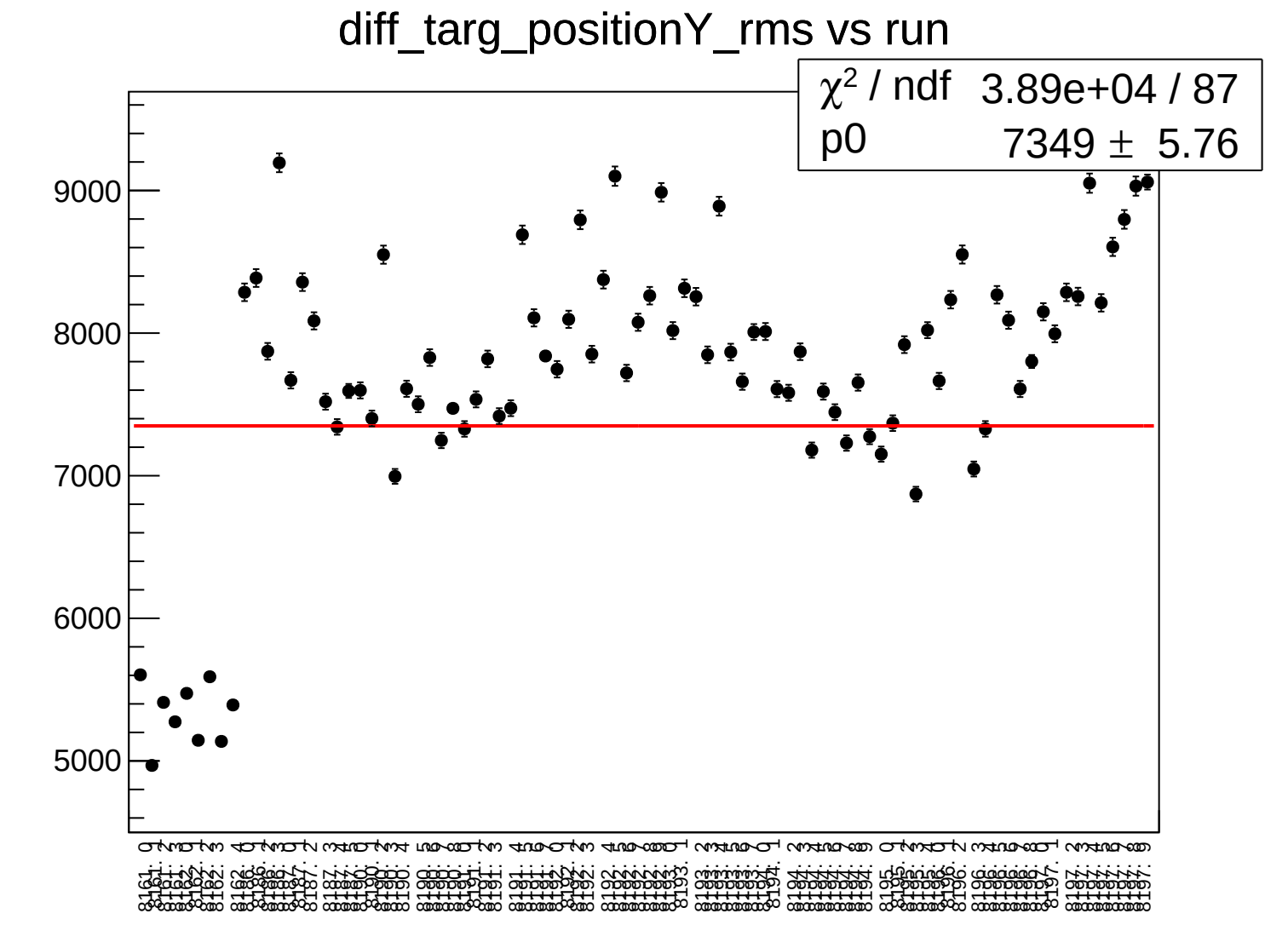

diff_targ_positionX_mean vs run
χ² / ndf 84.38 / 87
p0 −64.24 ± 22.04
pull
Entries 88
Mean 1413
Std Dev 0

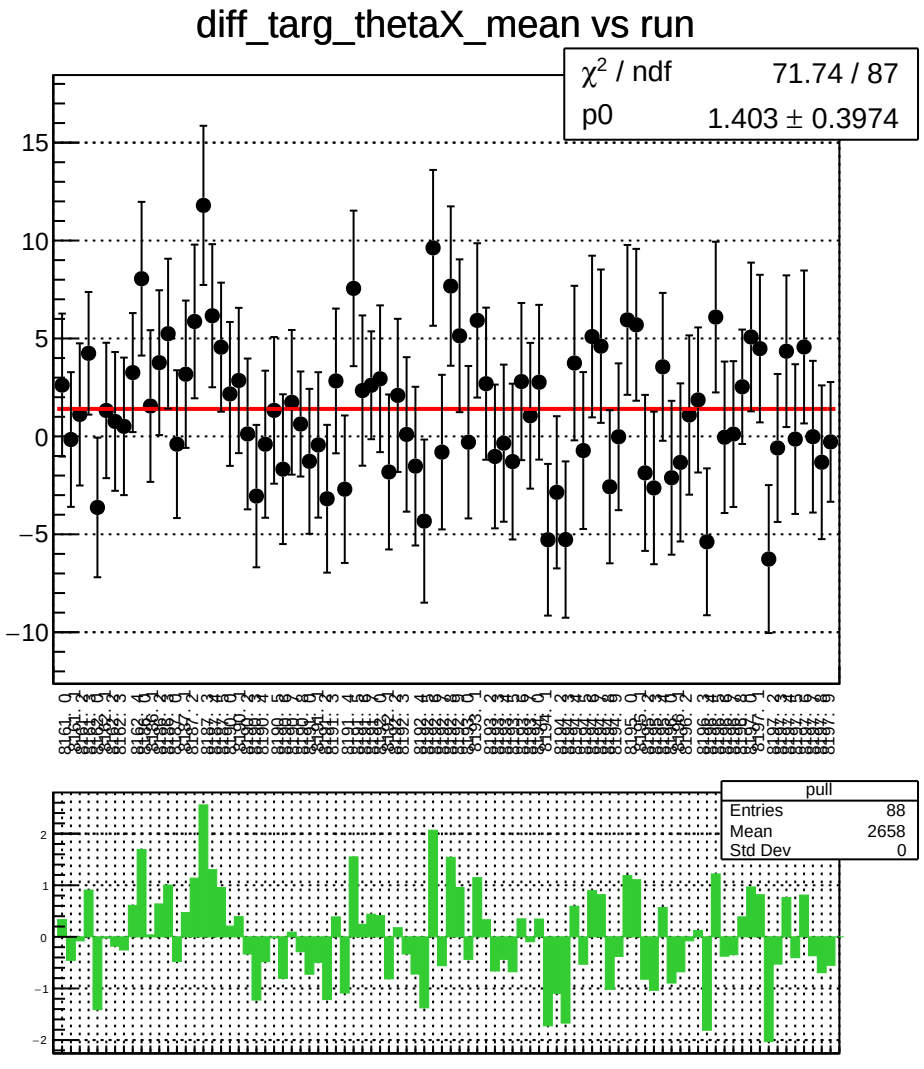

pull1D
Entries 88
Mean 0.002873
Std Dev 0.9792

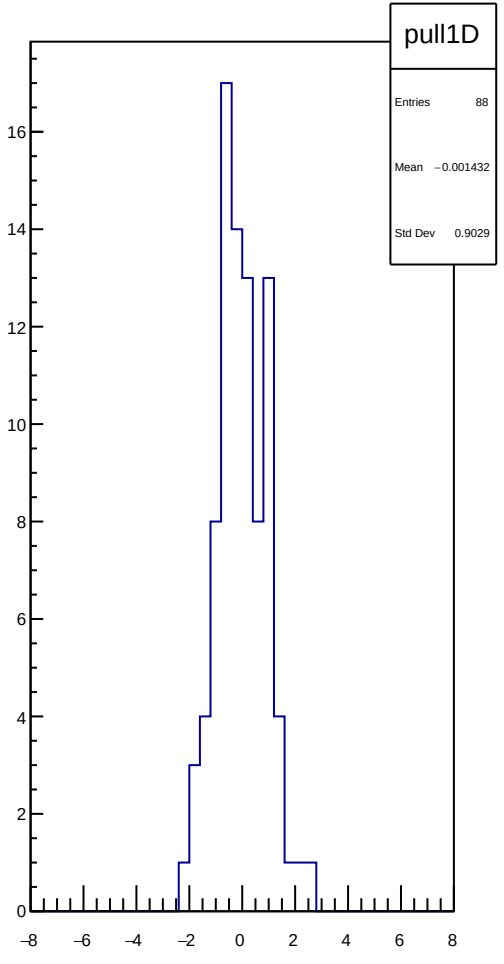

diff_targ_positionX_rms vs run
χ² / ndf 1.178e+04 / 87
p0 2.005e+04 ± 15.59
23000
22000
21000
20000
19000
18000
17000
16000

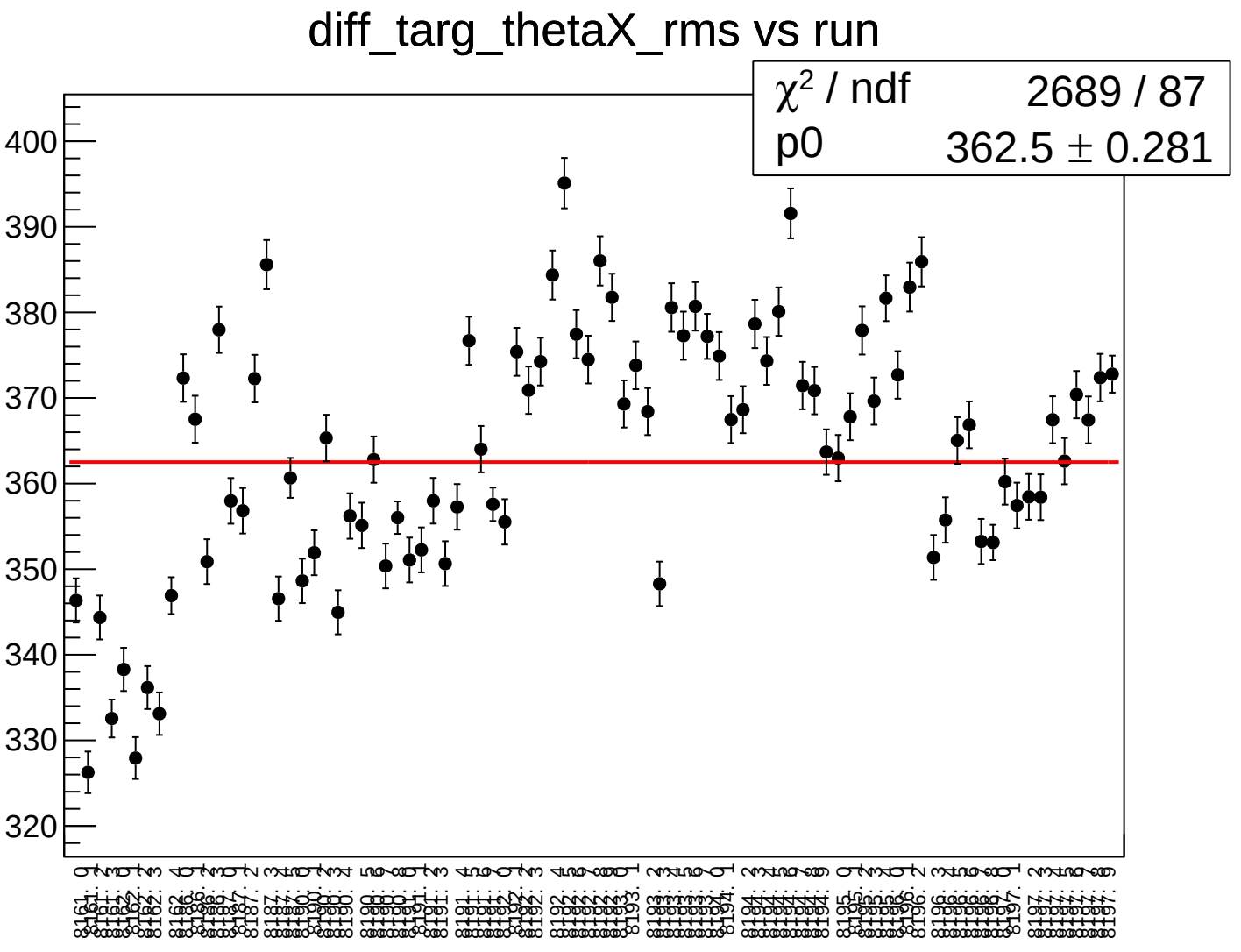

diff_targ_positionY_mean vs run
χ² / ndf 93.28 / 87
p0 28.31 ± 8.146
pull
Entries 88
Mean 90.77
Std Dev 0

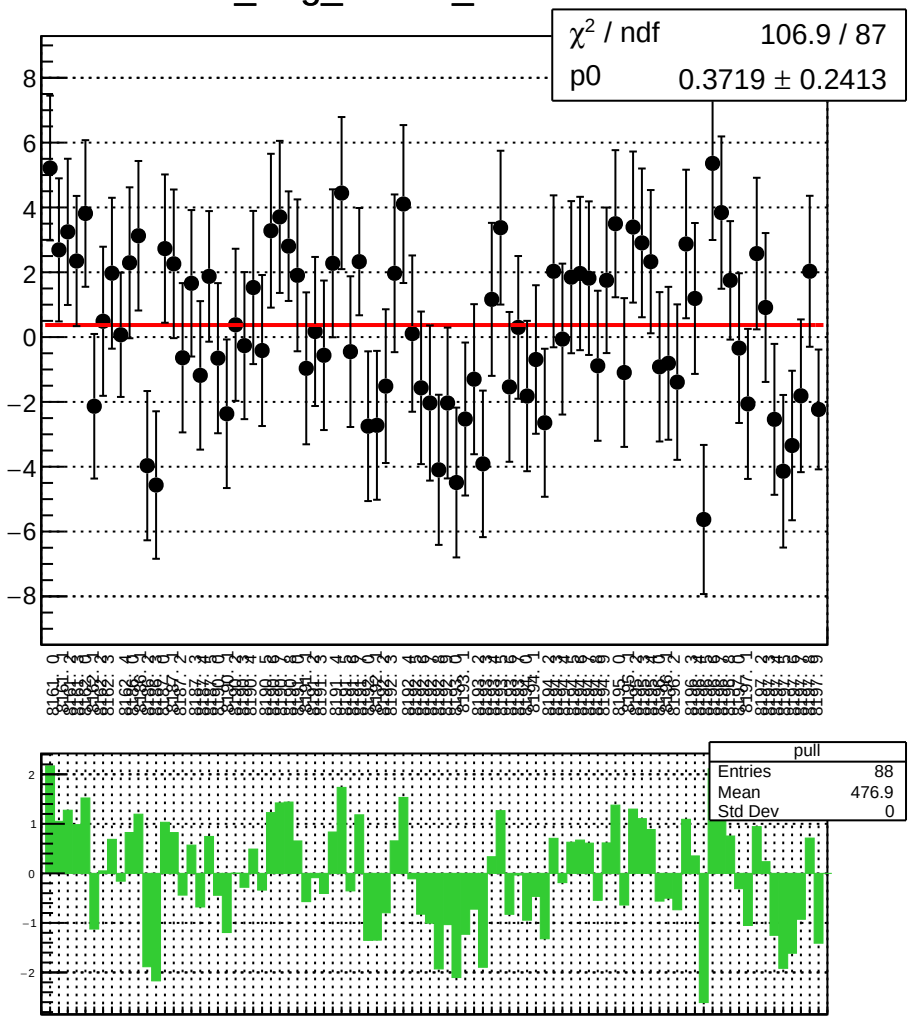

pull1D
Entries 88
Mean 0.03278
Std Dev 1.029

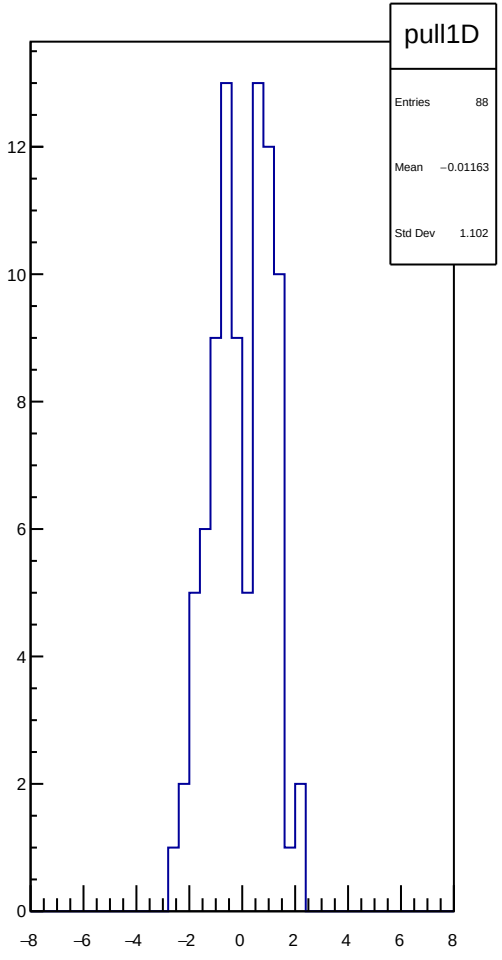

diff_targ_positionY_rms vs run
χ² / ndf 3.89e+04 / 87
p0 7349 ± 5.76
9000
8000
7000
6000
5000

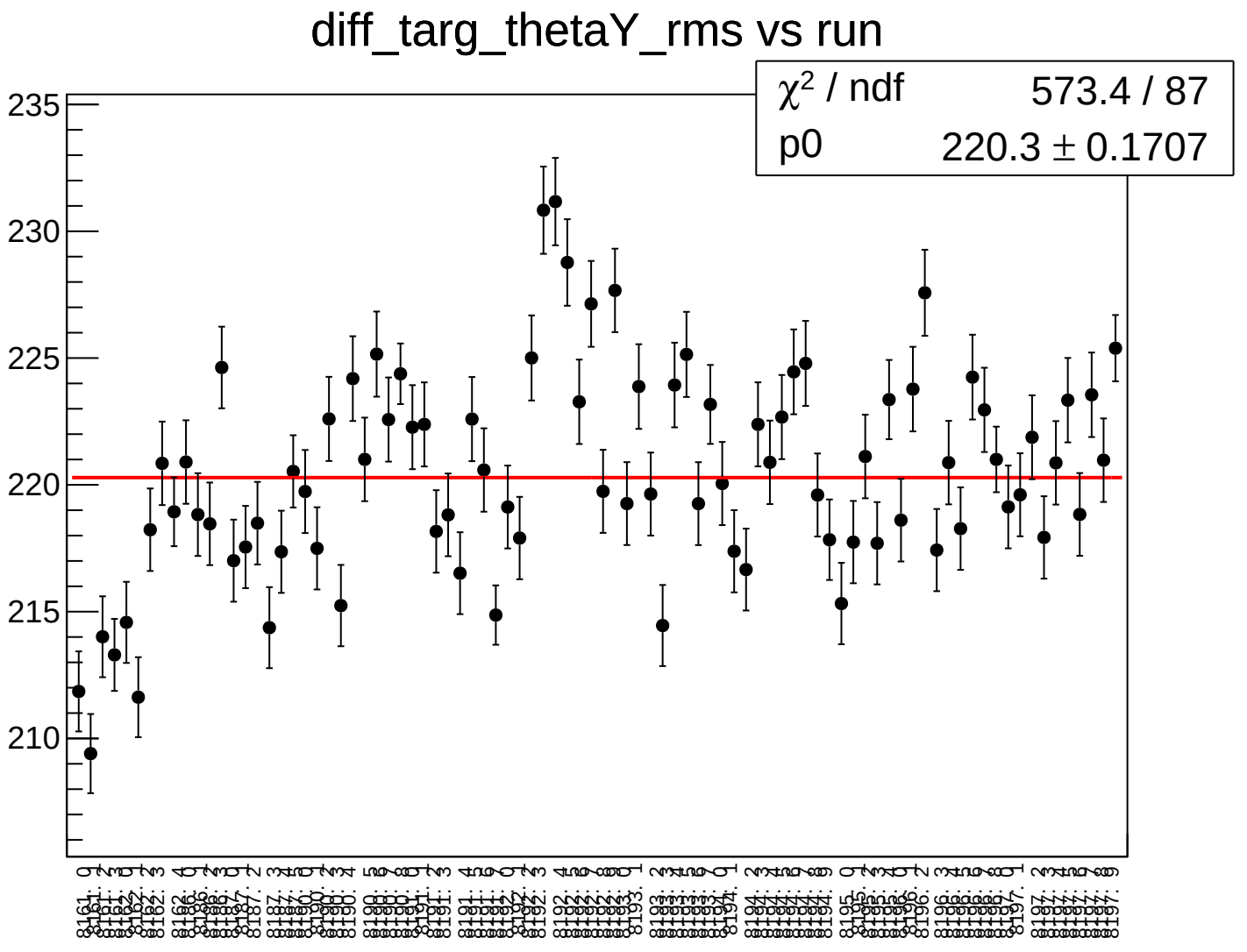

diff_targ_thetaX_mean vs run
χ² / ndf 71.74 / 87
p0 1.403 ± 0.3974
pull
Entries 88
Mean 2658
Std Dev 0

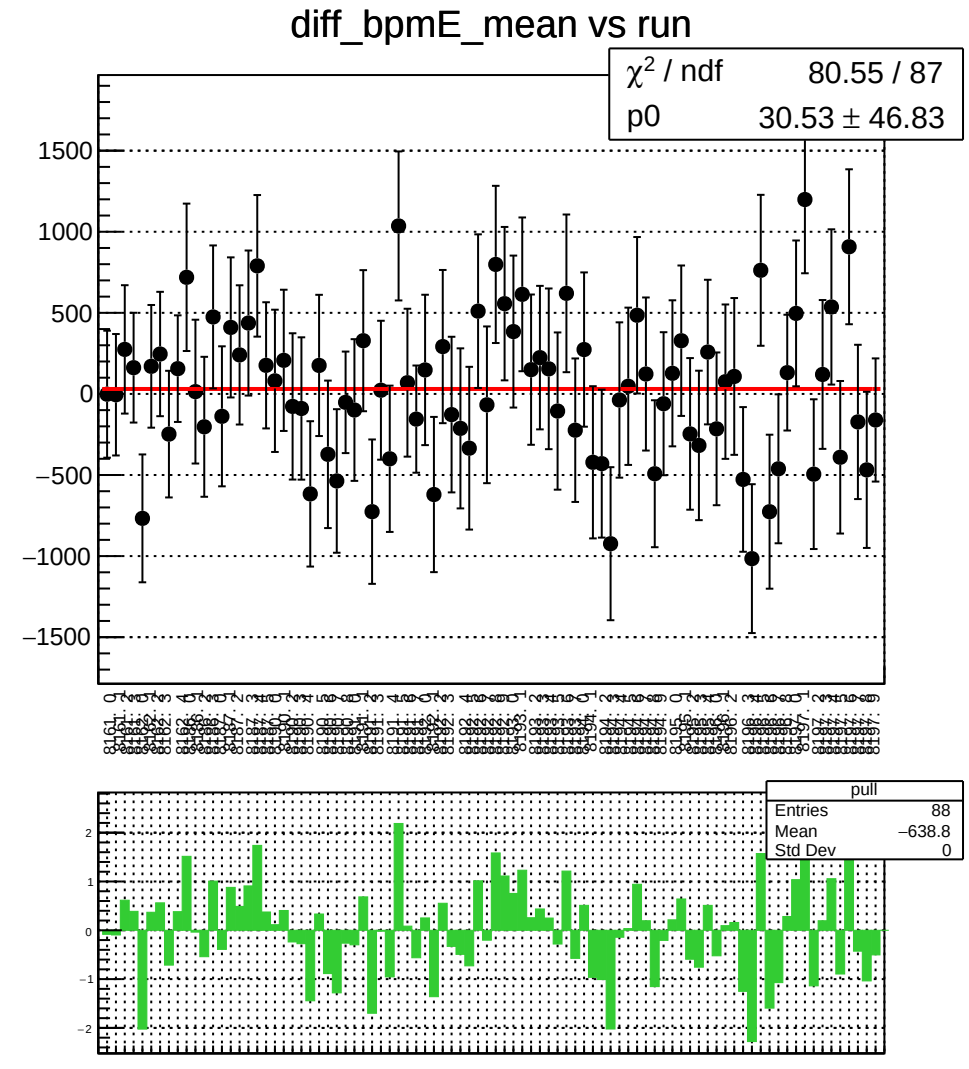

pull1D
Entries 88
Mean −0.001432
Std Dev 0.9029

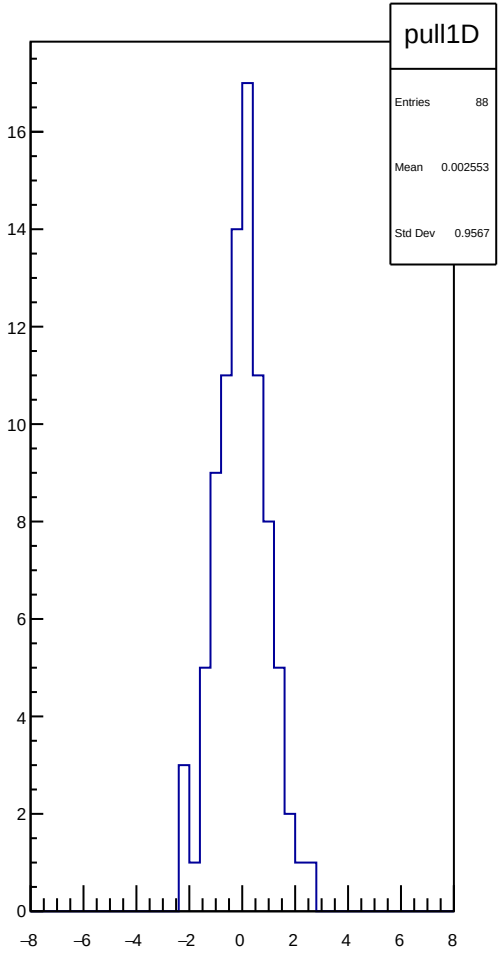

diff_targ_thetaX_rms vs run
χ² / ndf 2689 / 87
p0 362.5 ± 0.281
400
390
380
370
360
350
340
330
320

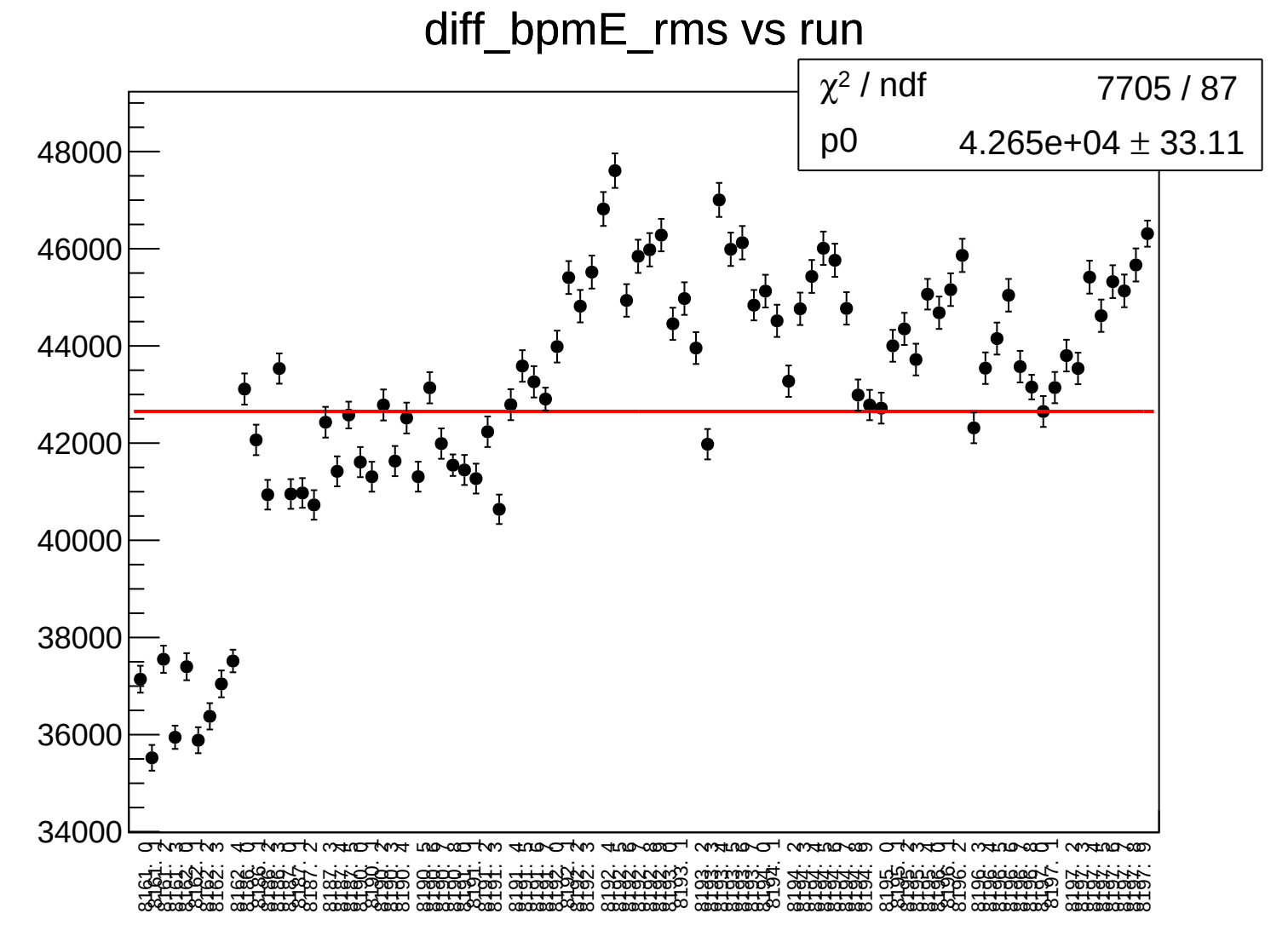

diff_targ_thetaY_mean vs run
χ² / ndf 106.9 / 87
p0 0.3719 ± 0.2413
pull
Entries 88
Mean 476.9
Std Dev 0

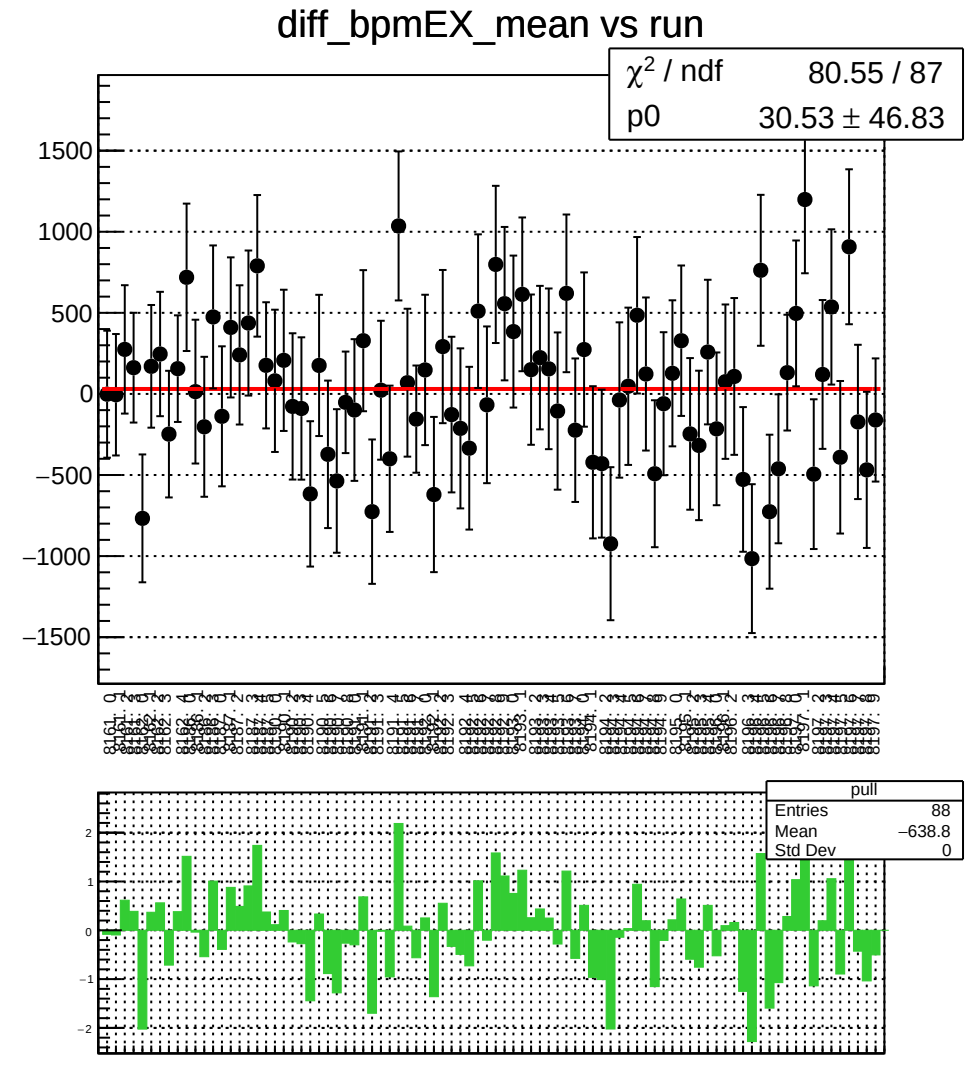

pull1D
Entries 88
Mean −0.01163
Std Dev 1.102

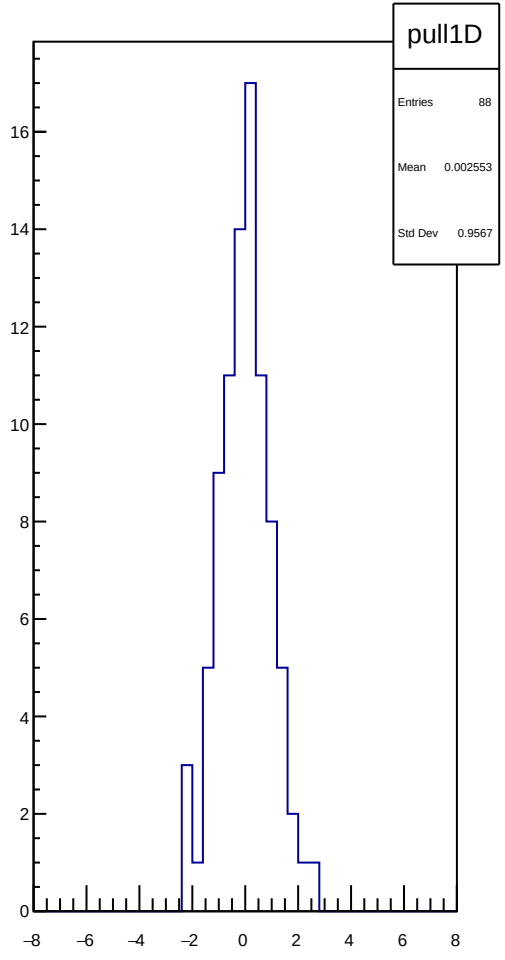

diff_targ_thetaY_rms vs run
χ² / ndf 573.4 / 87
p0 220.3 ± 0.1707
235
230
225
220
215
210

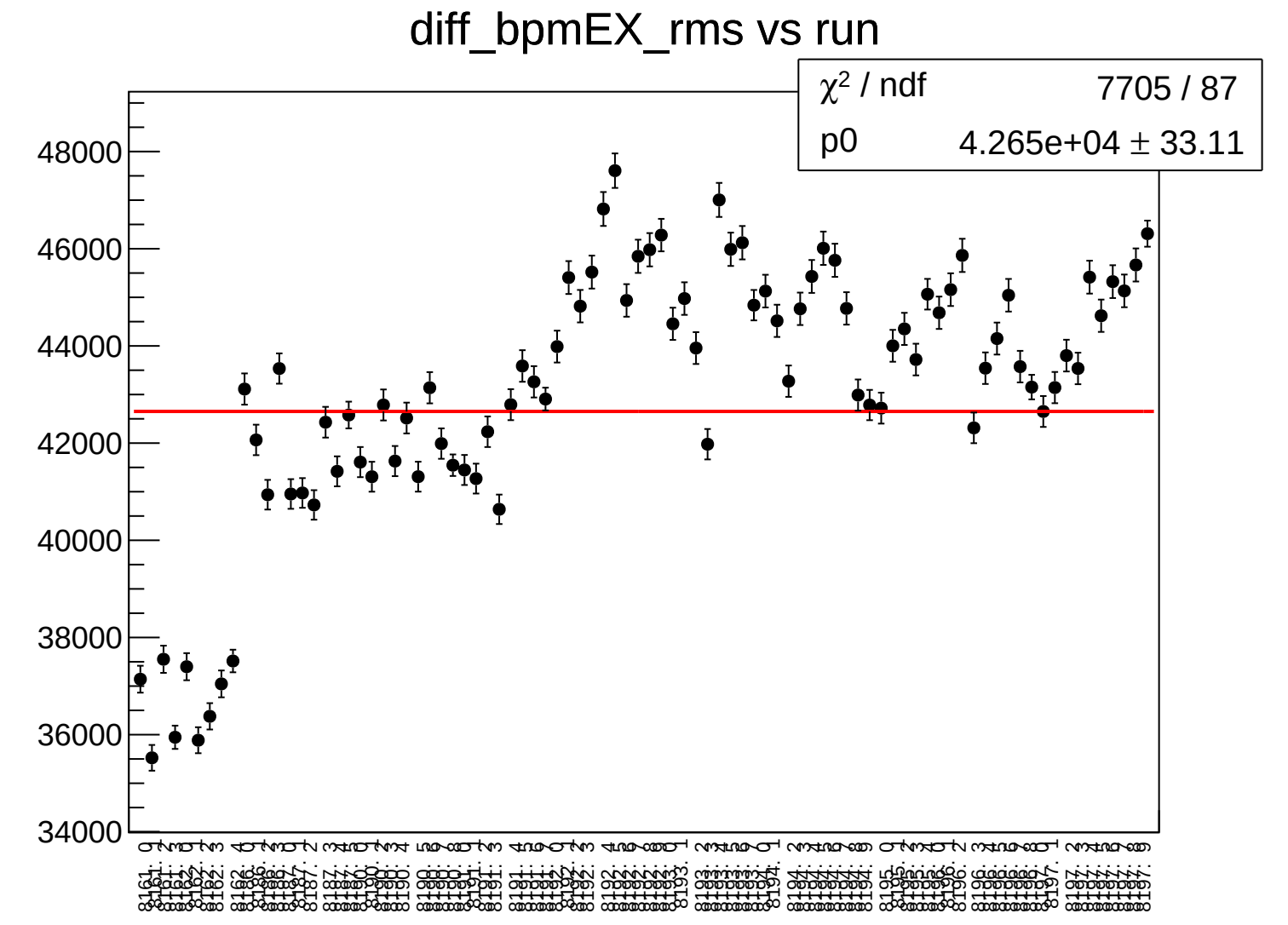

diff_bpmE_mean vs run
χ^2 / ndf 80.55 / 87
p0 30.53 ± 46.83
pull
Entries 88
Mean −638.8
Std Dev 0

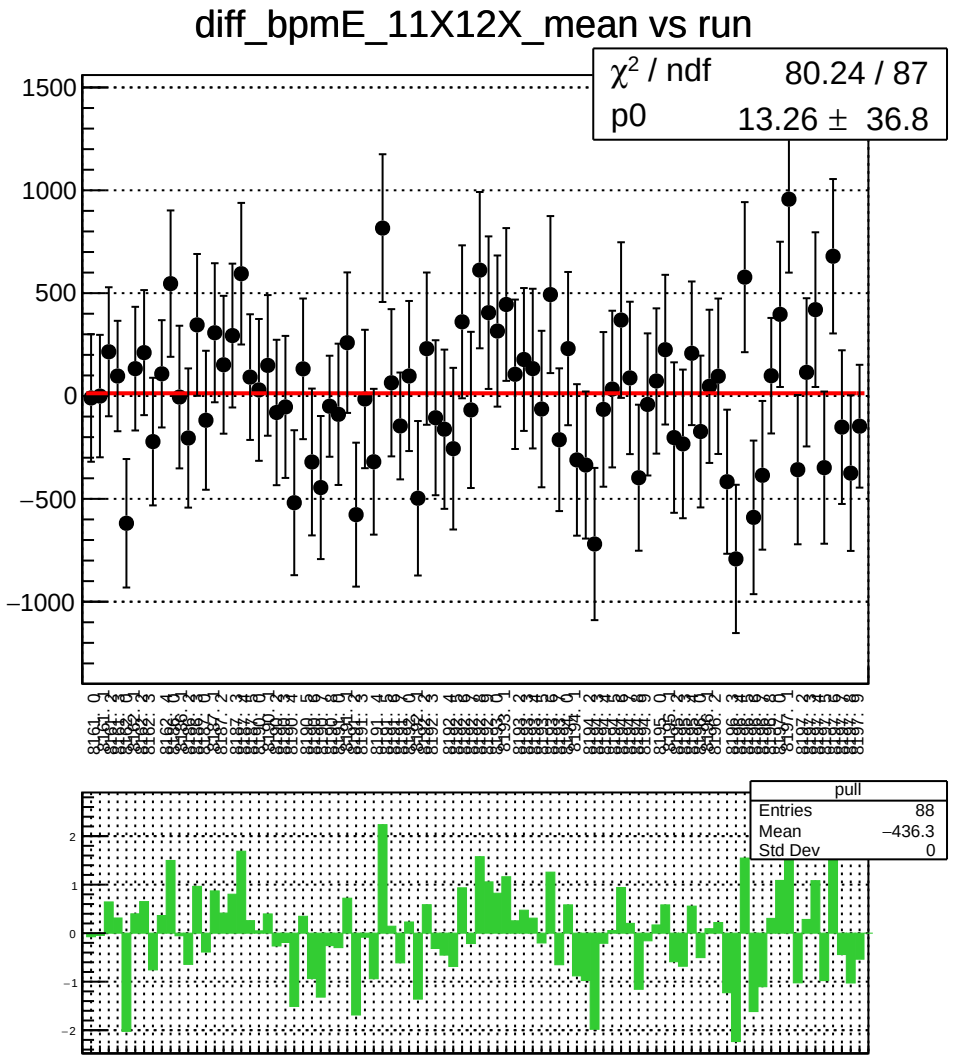

pull1D
Entries 88
Mean 0.002553
Std Dev 0.9567

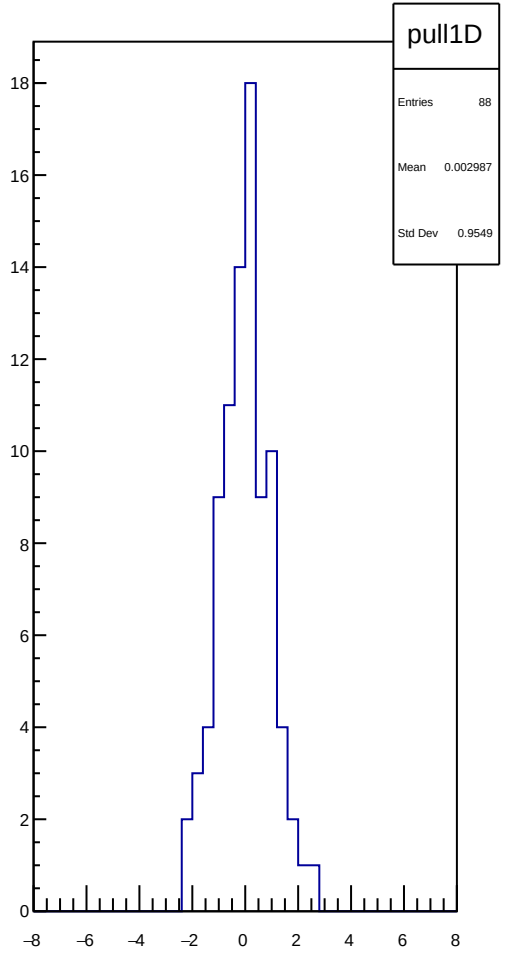

diff_bpmE_rms vs run
χ² / ndf 7705 / 87
p0 4.265e+04 ± 33.11
48000
46000
44000
42000
40000
38000
36000
34000

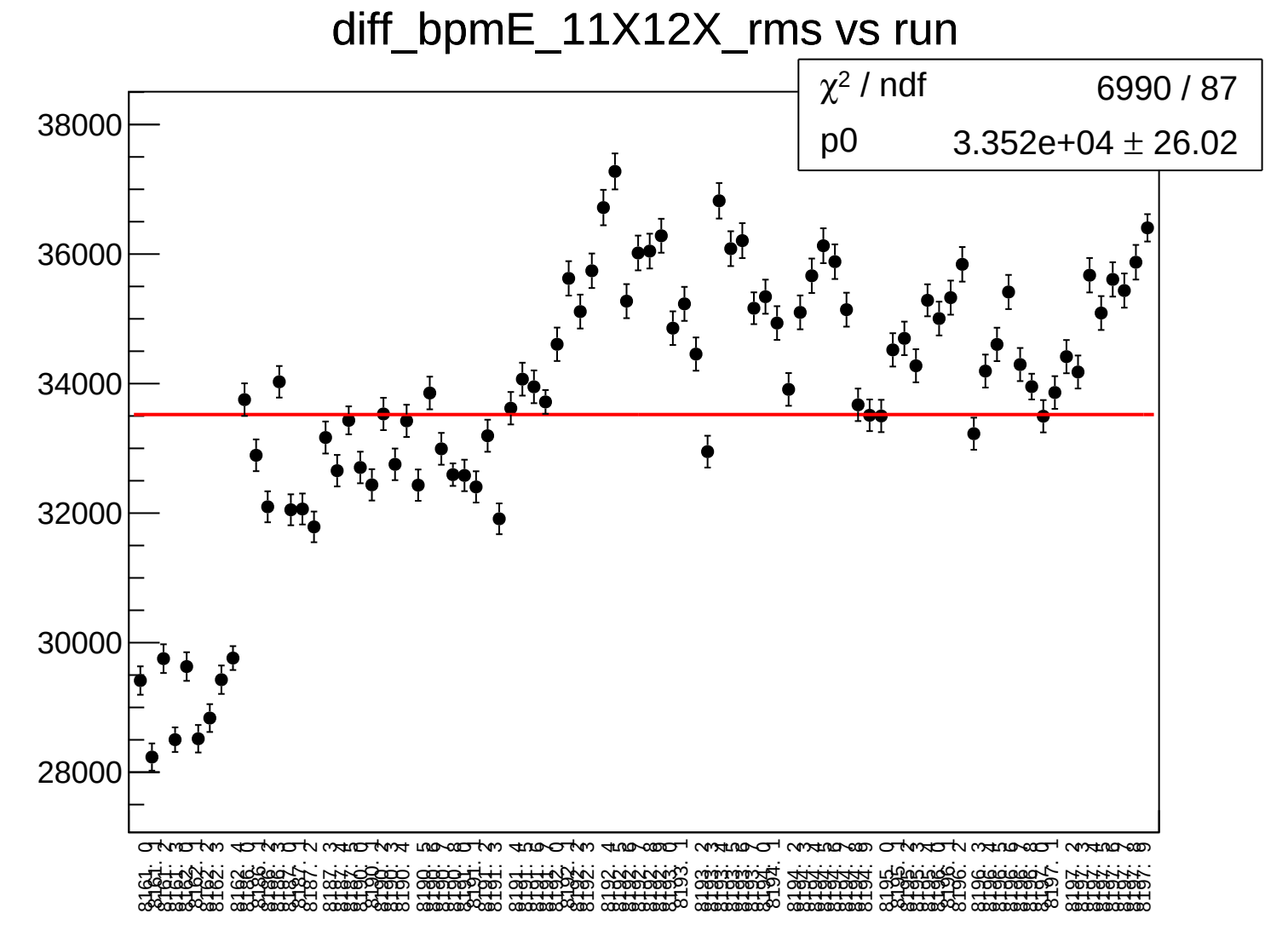

diff_bpmEX_mean vs run
χ² / ndf 80.55 / 87
p0 30.53 ± 46.83
pull
Entries 88
Mean −638.8
Std Dev 0

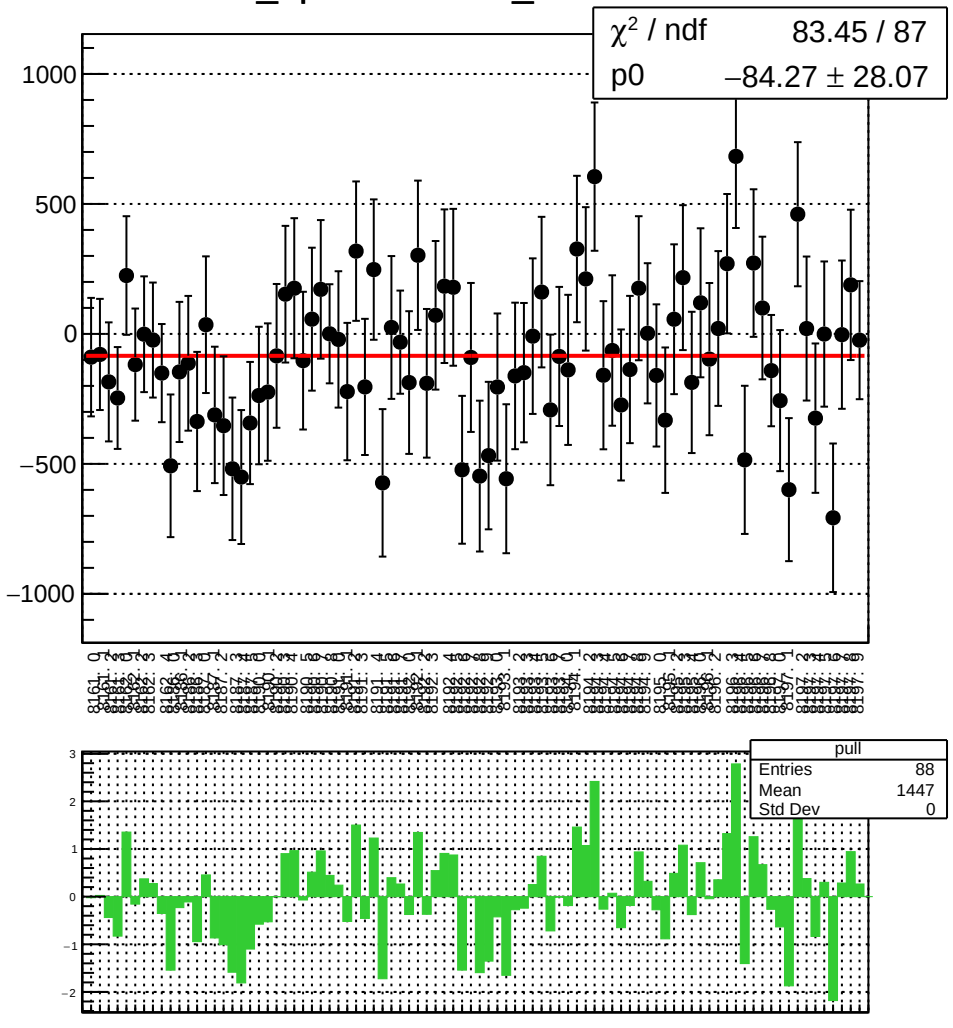

pull1D
Entries 88
Mean 0.002553
Std Dev 0.9567

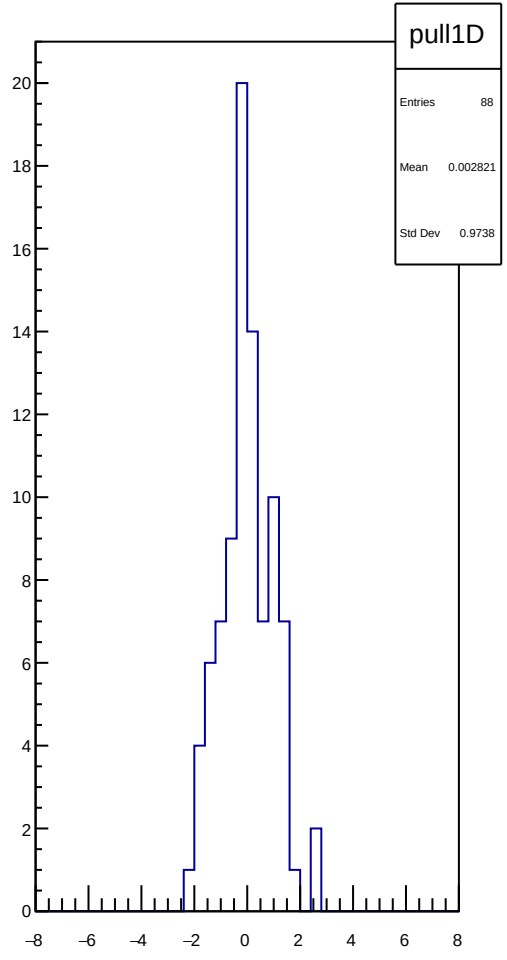

diff_bpmEX_rms vs run
χ² / ndf 7705 / 87
p0 4.265e+04 ± 33.11
48000
46000
44000
42000
40000
38000
36000
34000

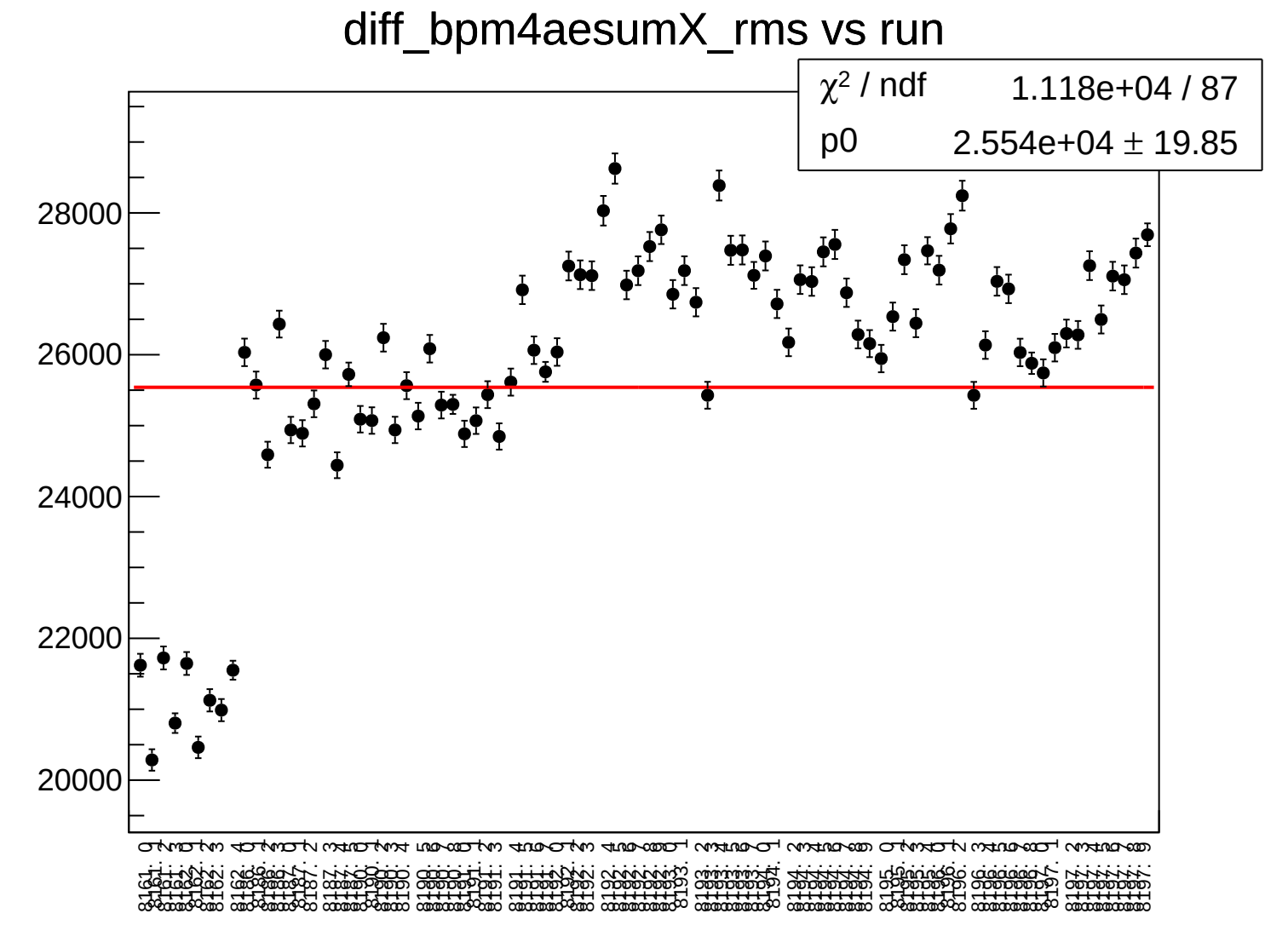

diff_bpmE_11X12X_mean vs run
χ² / ndf 80.24 / 87
p0 13.26 ± 36.8
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean −436.3
Std Dev 0
2
1
0
−1
−2

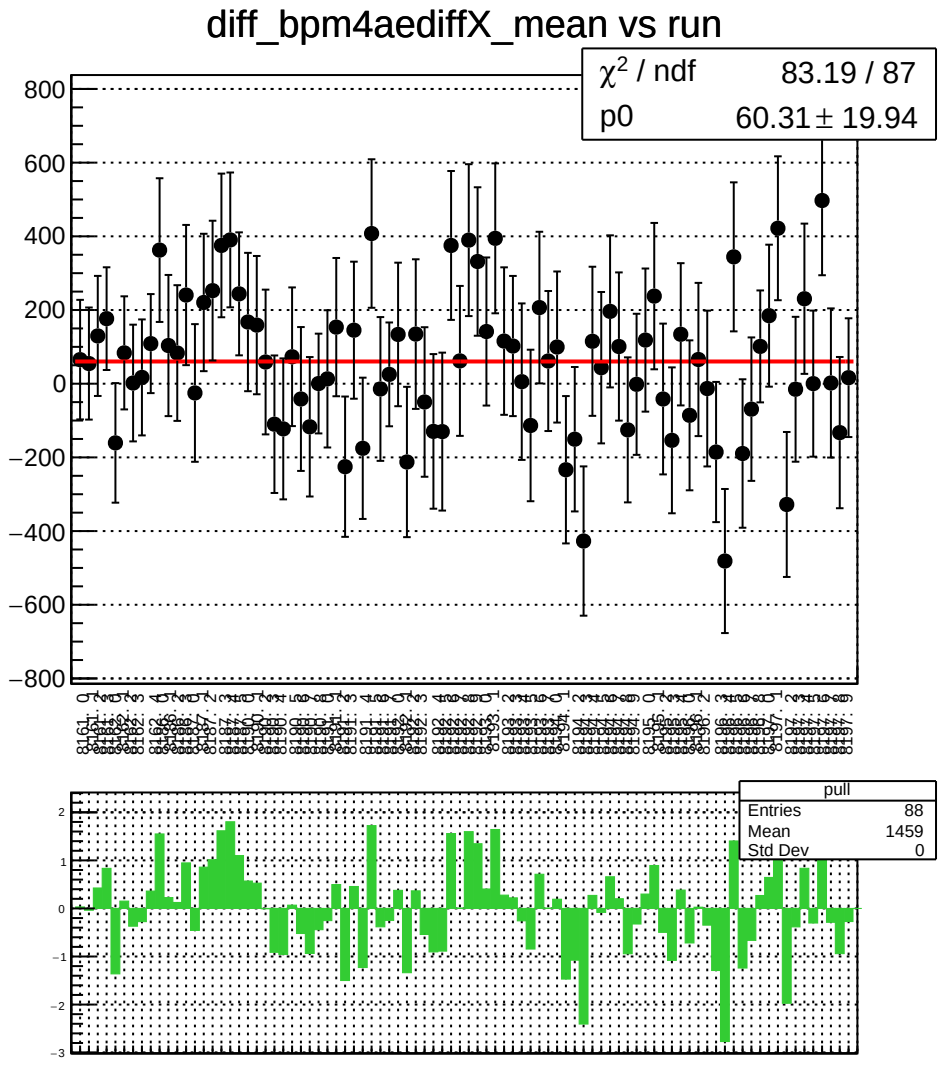

pull1D
Entries 88
Mean 0.002987
Std Dev 0.9549
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

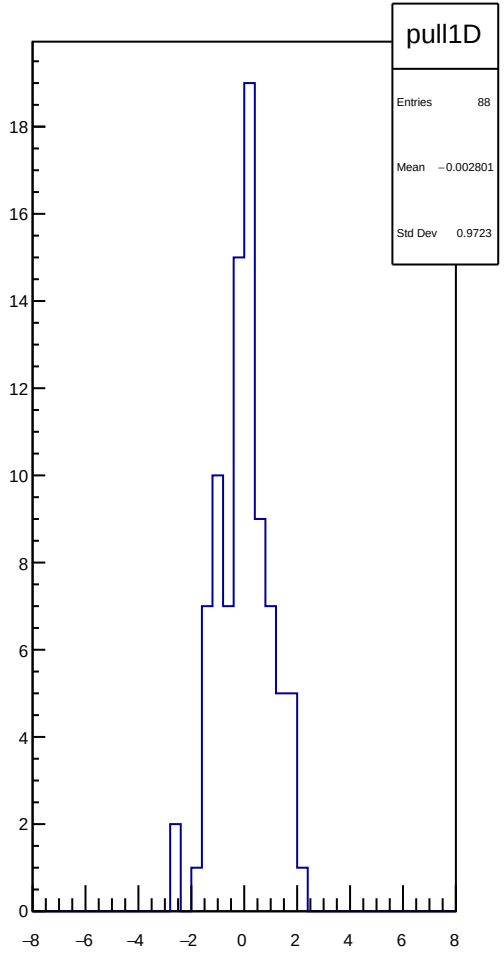

diff_bpmE_11X12X_rms vs run
χ² / ndf 6990 / 87
p0 3.352e+04 ± 26.02
38000
36000
34000
32000
30000
28000


diff_bpm4aesumX_mean vs run
χ² / ndf 83.45 / 87
p0 −84.27 ± 28.07
1000
500
0
−500
−1000
pull
Entries 88
Mean 1447
Std Dev 0
3
2
1
0
−1
−2

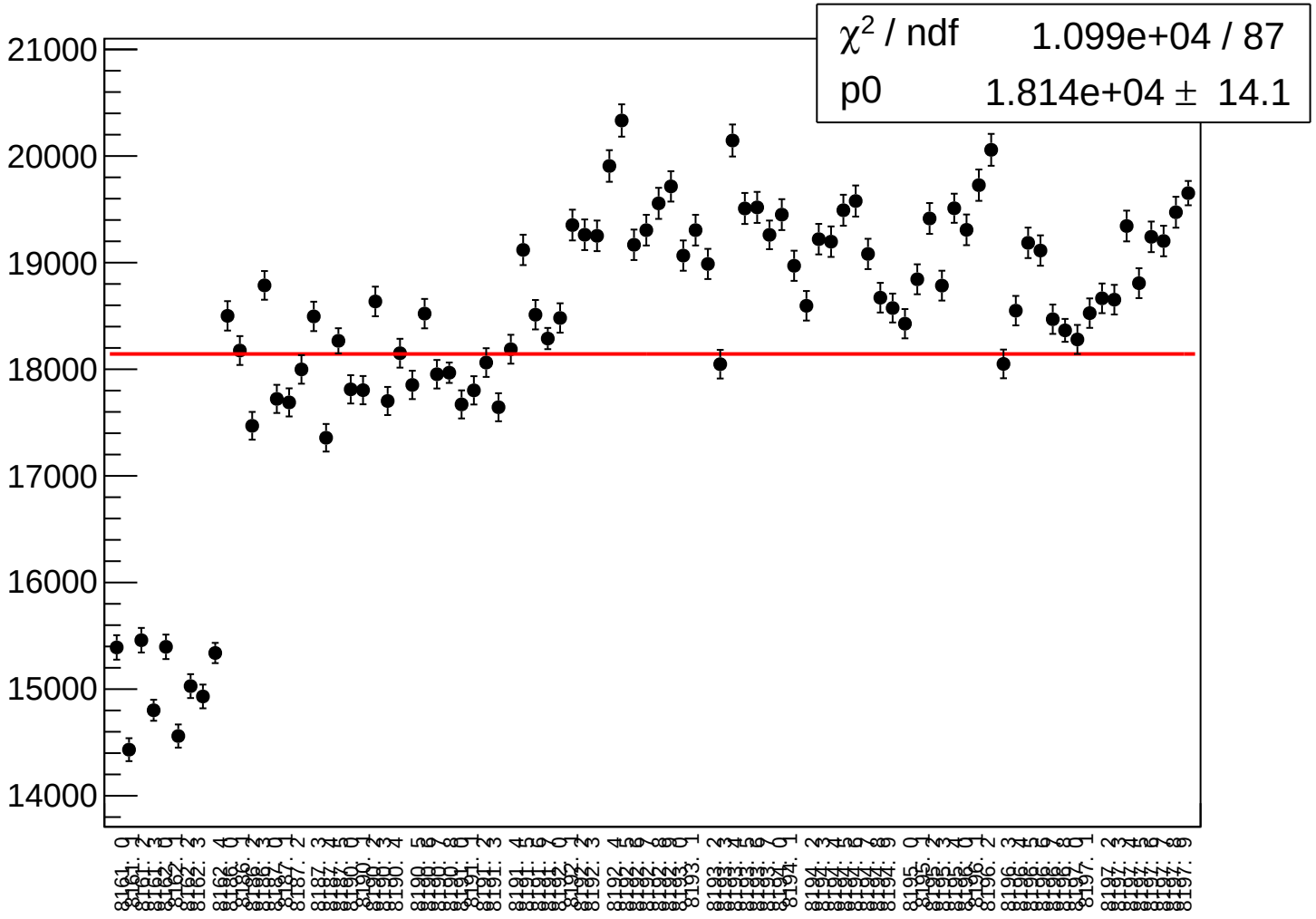

pull1D
Entries 88
Mean 0.002821
Std Dev 0.9738
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

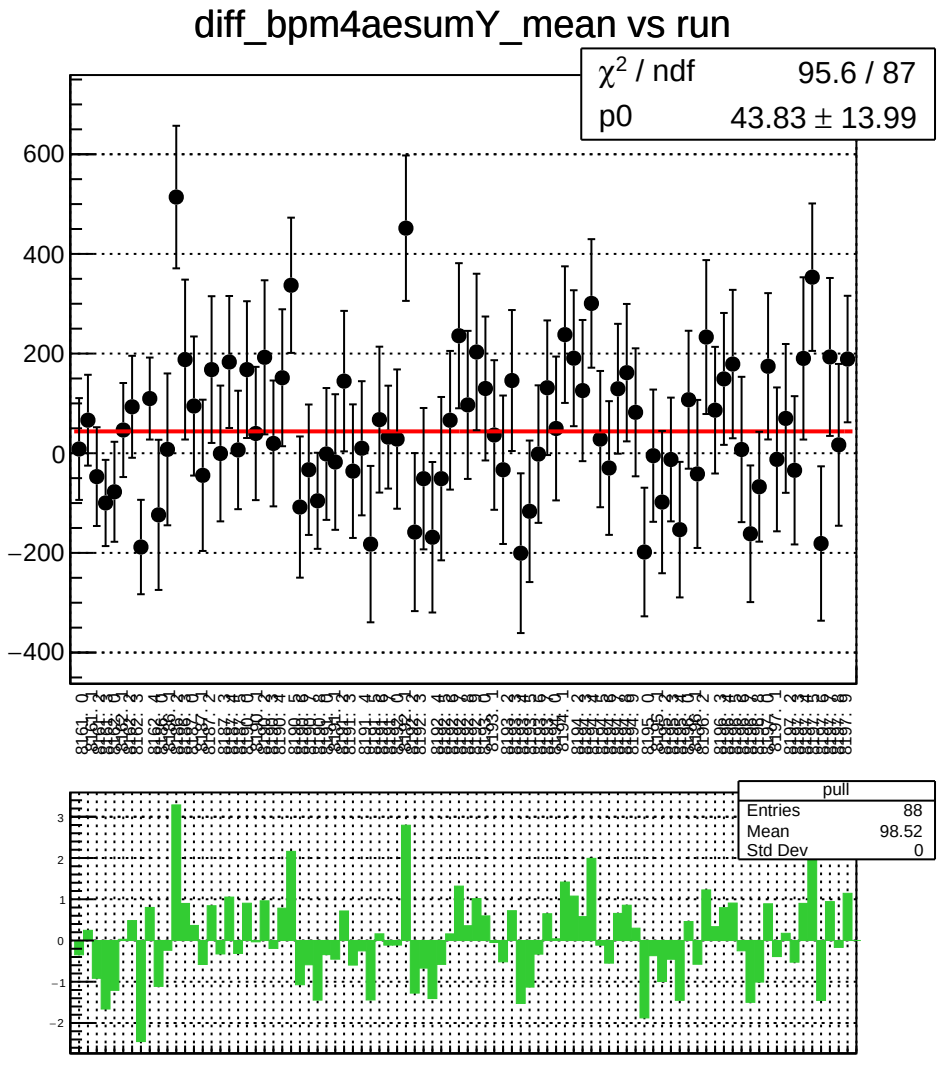

diff_bpm4aesumX_rms vs run
χ² / ndf 1.118e+04 / 87
p0 2.554e+04 ± 19.85
28000
26000
24000
22000
20000

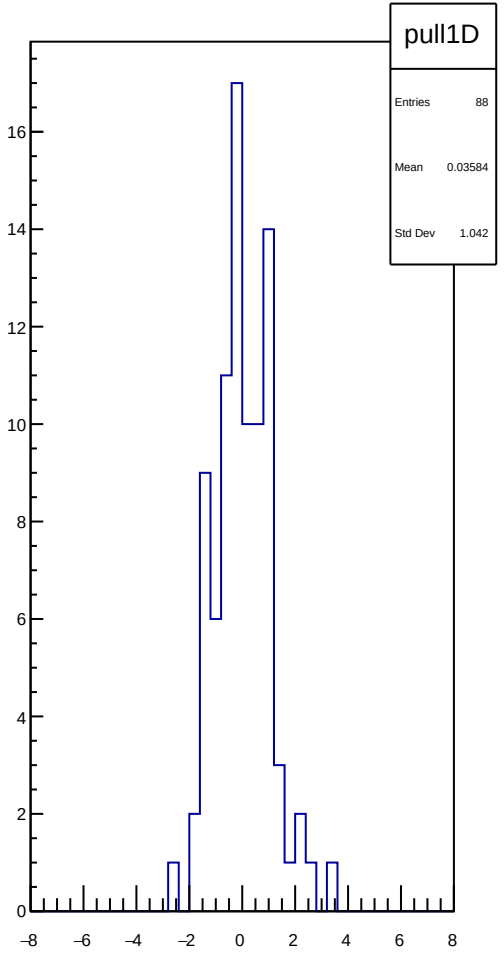

diff_bpm4aediffX_mean vs run
χ² / ndf 83.19 / 87
p0 60.31 ± 19.94
pull
Entries 88
Mean 1459
Std Dev 0

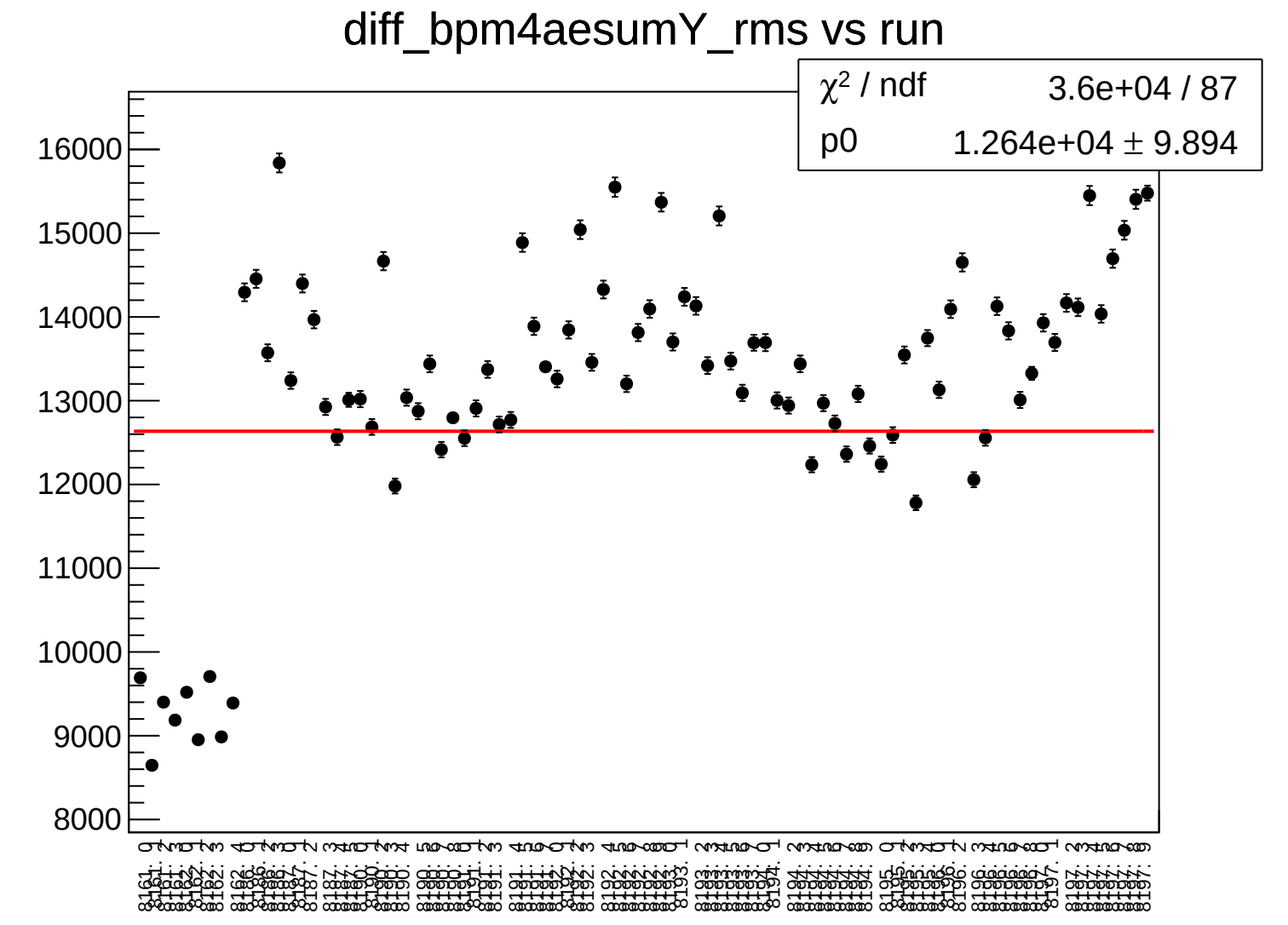

pull1D
Entries 88
Mean −0.002801
Std Dev 0.9723

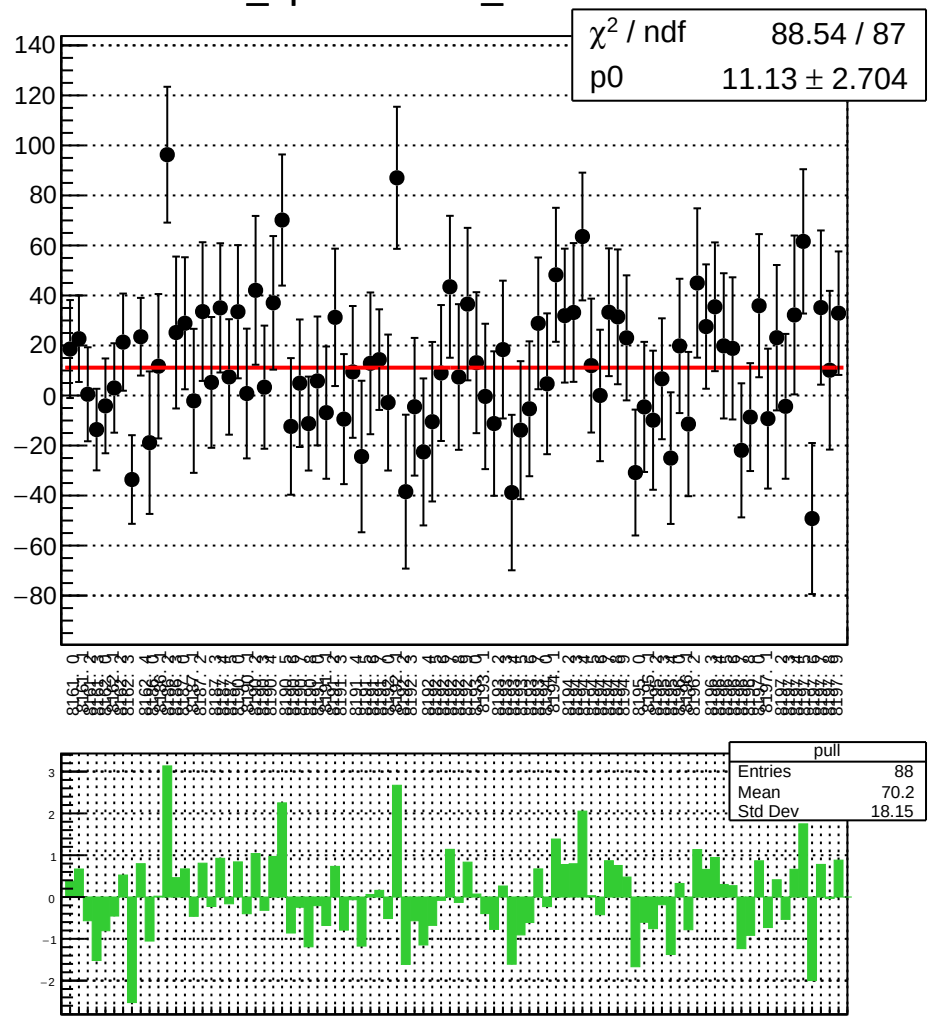
diff_bpm4aediffX_rms vs run

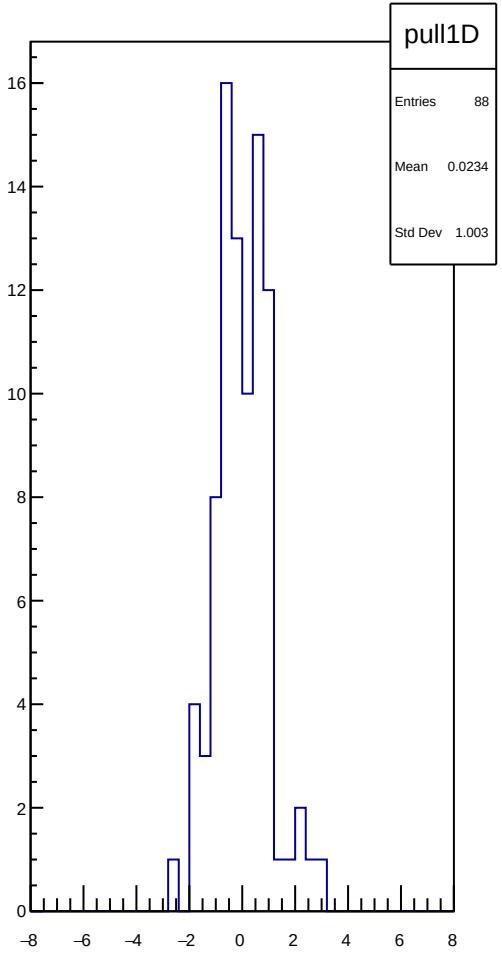


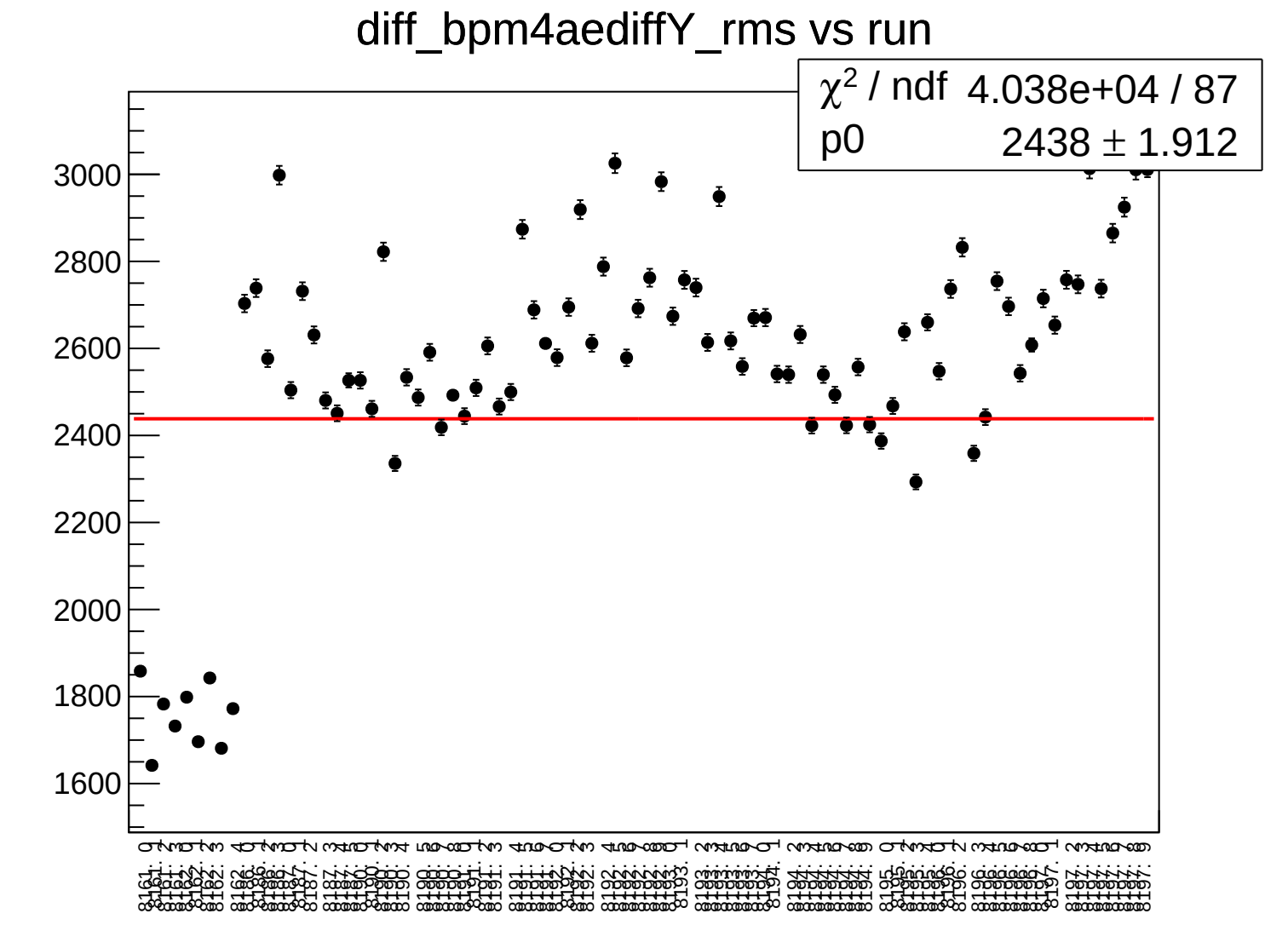

diff_bpm4aesumY_mean vs run
χ^2 / ndf 95.6 / 87
p0 43.83 ± 13.99
pull
Entries 88
Mean 98.52
Std Dev 0

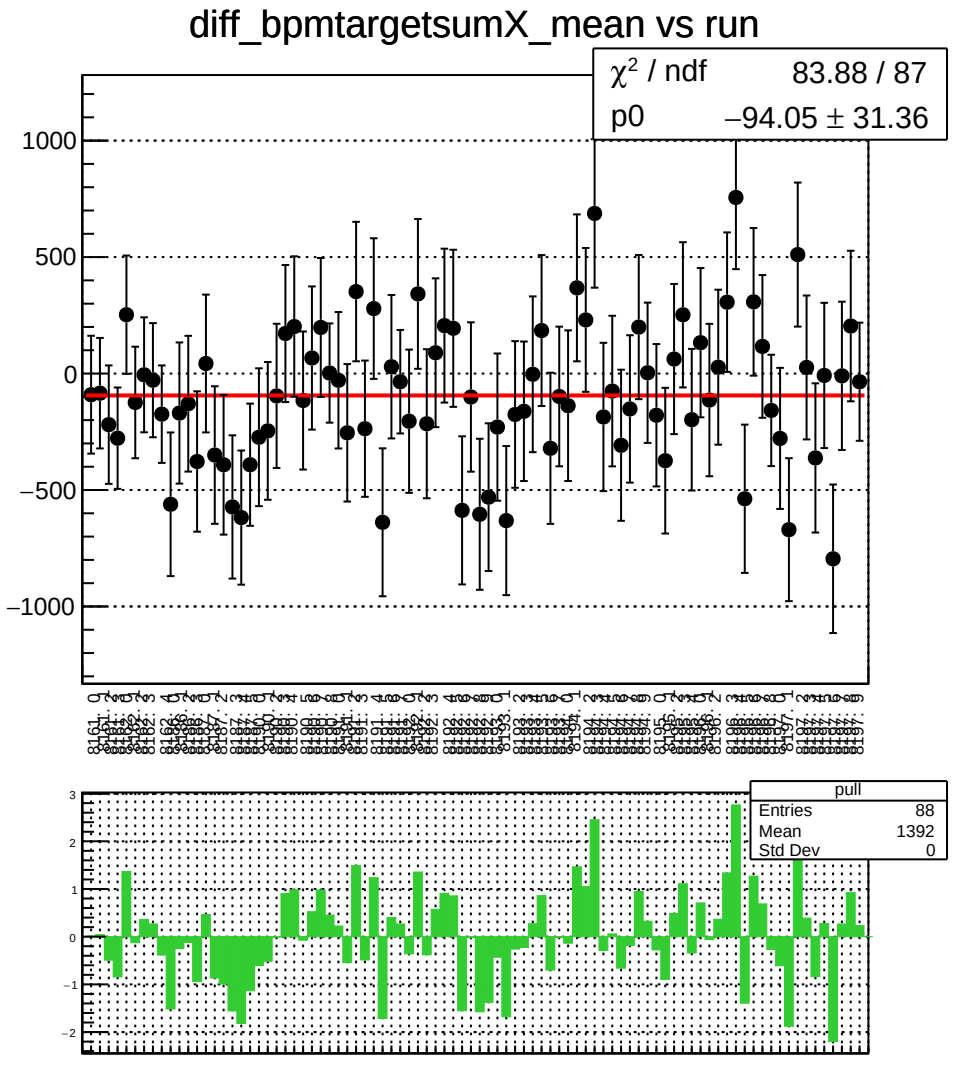

pull1D
Entries 88
Mean 0.03584
Std Dev 1.042

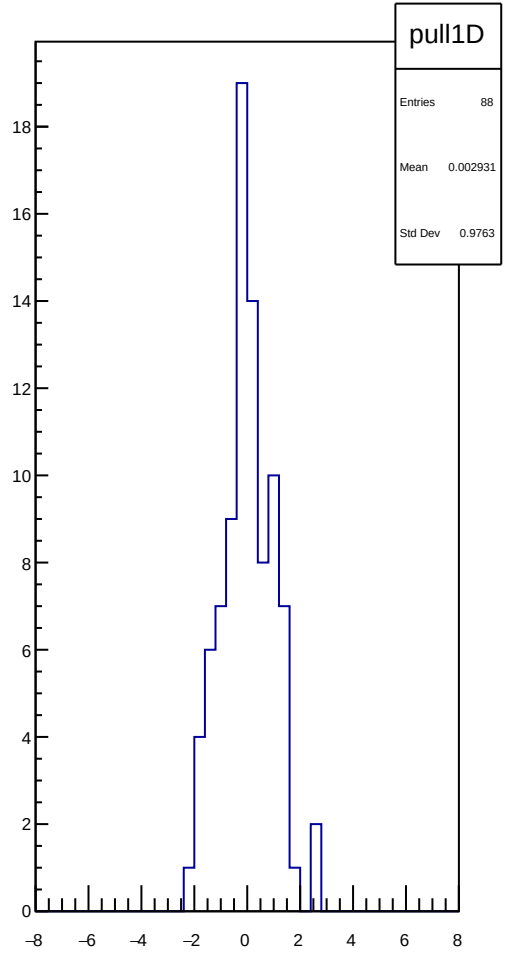

diff_bpm4aesumY_rms vs run
χ² / ndf 3.6e+04 / 87
p0 1.264e+04 ± 9.894
16000
15000
14000
13000
12000
11000
10000
9000
8000

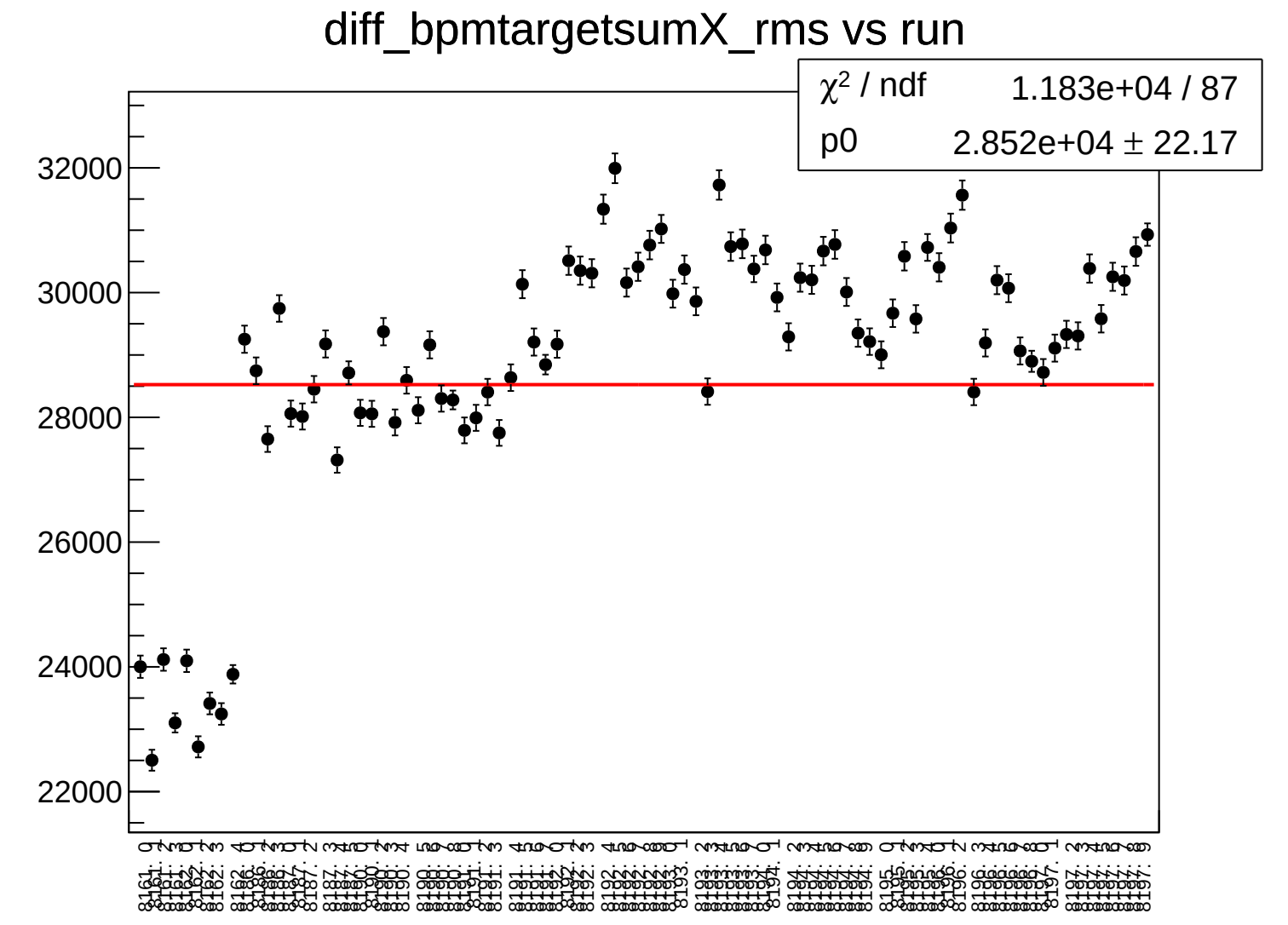

diff_bpm4aediffY_mean vs run
χ² / ndf 88.54 / 87
p0 11.13 ± 2.704
pull
Entries 88
Mean 70.2
Std Dev 18.15

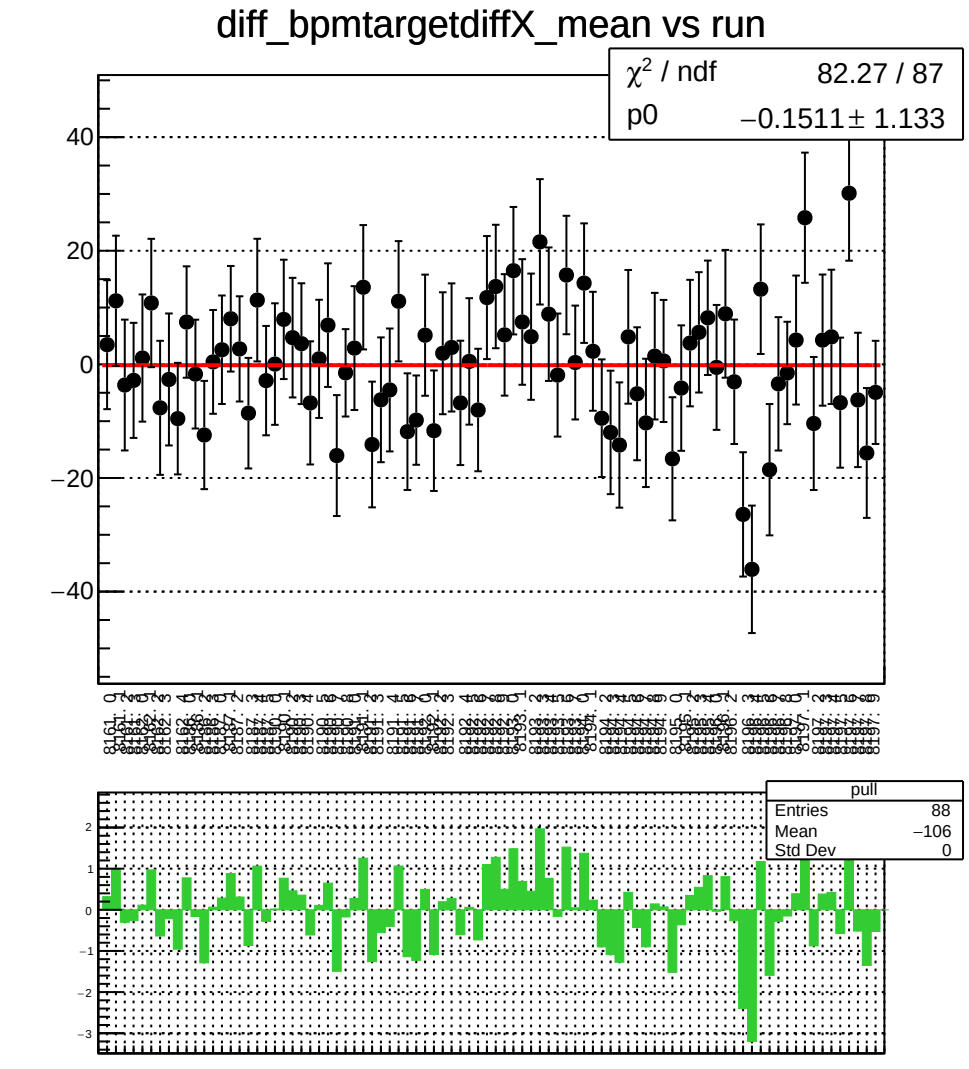

pull1D
Entries 88
Mean 0.0234
Std Dev 1.003

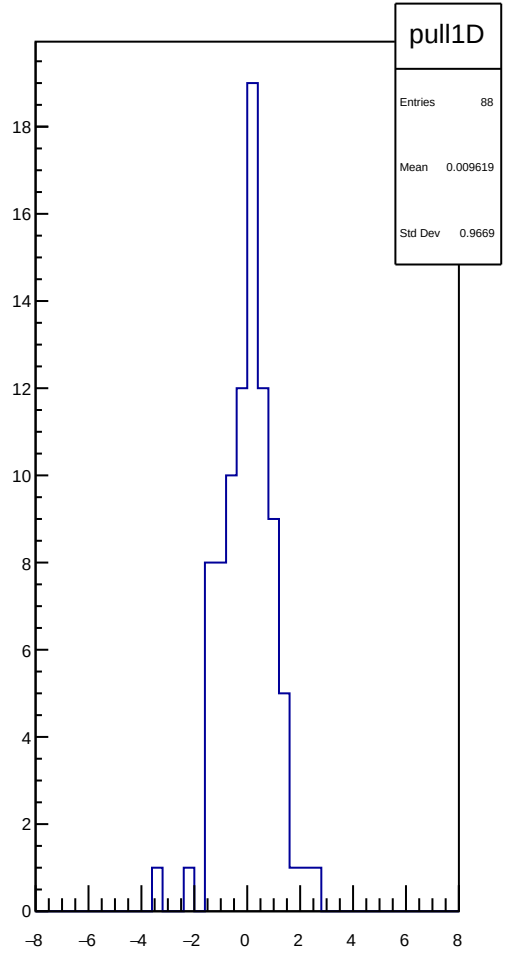

diff_bpm4aediffY_rms vs run
χ² / ndf 4.038e+04 / 87
p0 2438 ± 1.912
3000
2800
2600
2400
2200
2000
1800
1600

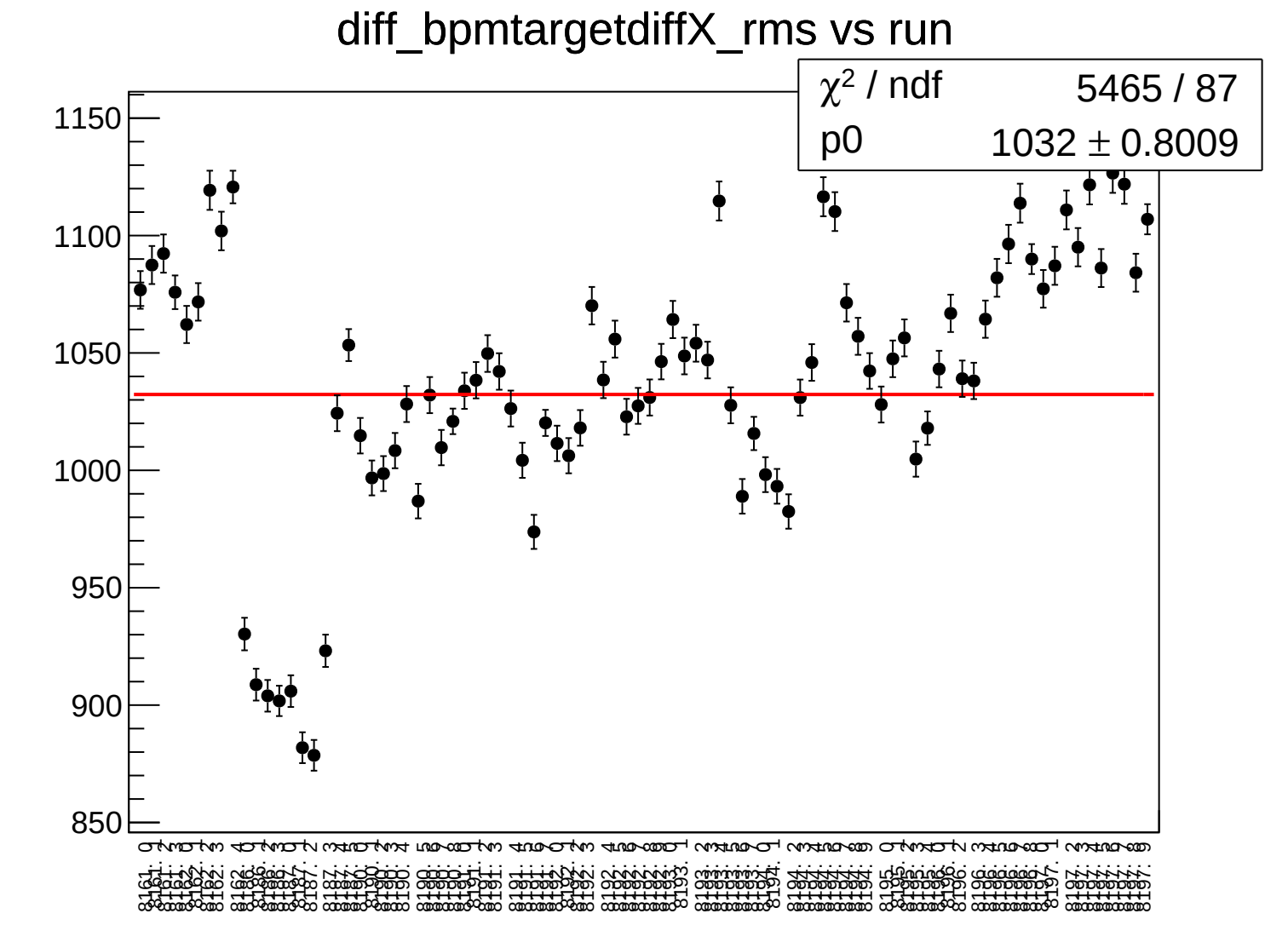

diff_bpmtargetsumX_mean vs run
χ² / ndf 83.88 / 87
p0 −94.05 ± 31.36
1000
500
0
−500
−1000
pull
Entries 88
Mean 1392
Std Dev 0
3
2
1
0
−1
−2

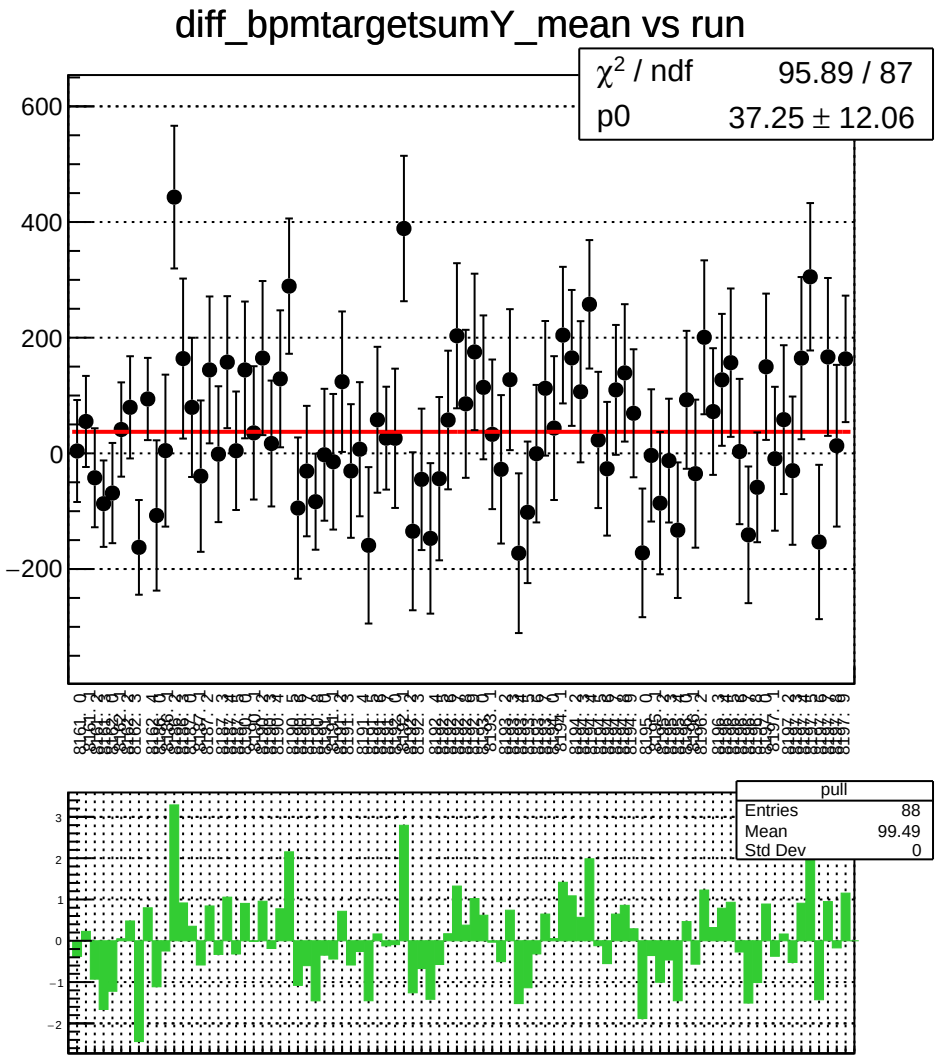

pull1D
Entries 88
Mean 0.002931
Std Dev 0.9763
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

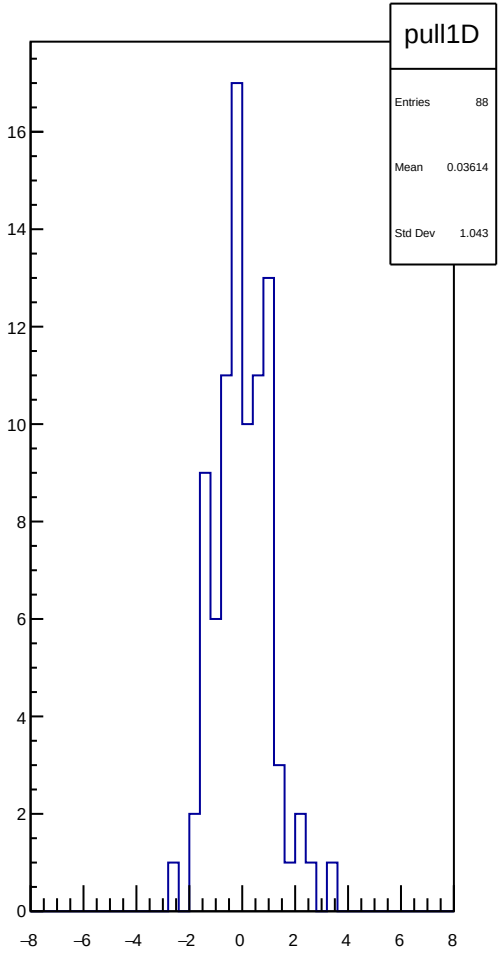

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.183e+04 / 87
p0 2.852e+04 ± 22.17
32000
30000
28000
26000
24000
22000

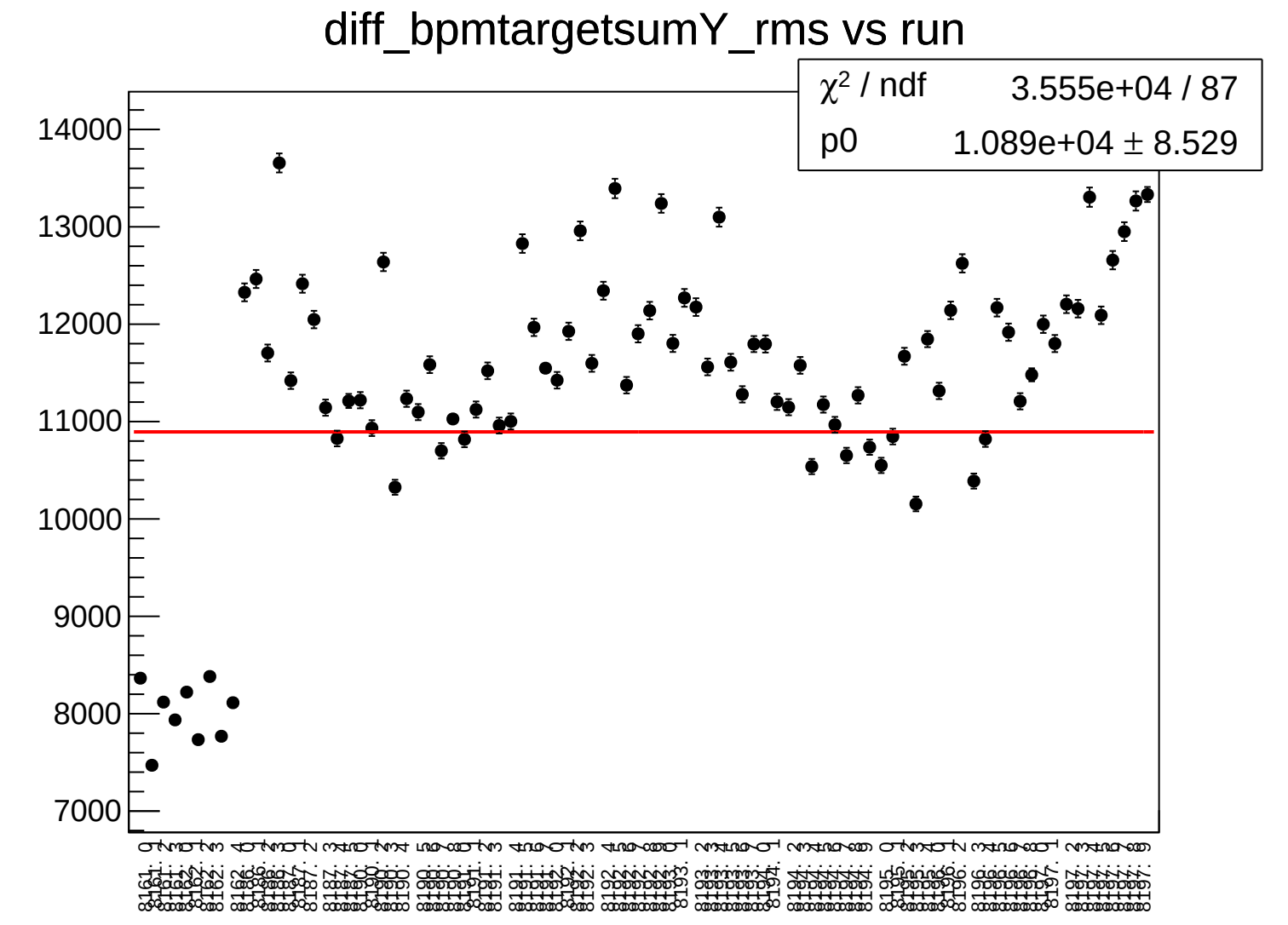

diff_bpmtargetdiffX_mean vs run
χ² / ndf 82.27 / 87
p0 −0.1511 ± 1.133
40
20
0
−20
−40
pull
Entries 88
Mean −106
Std Dev 0
2
1
0
−1
−2
−3

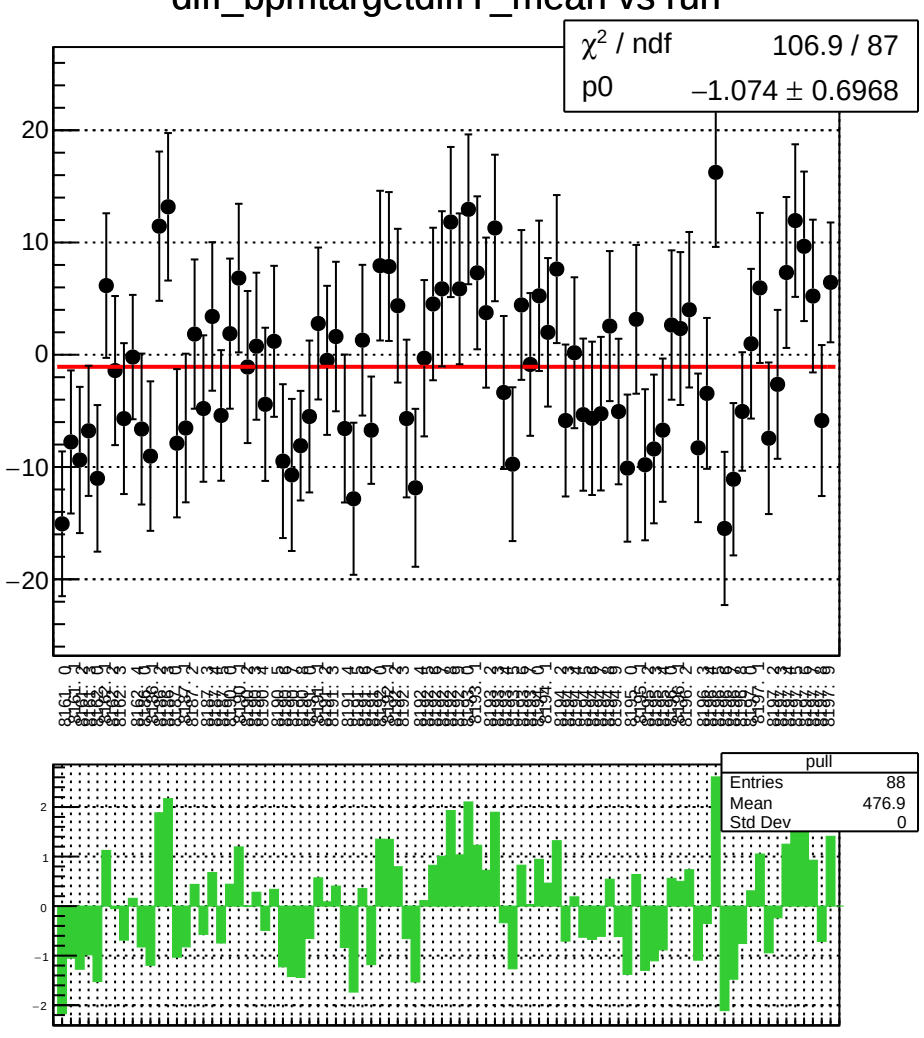

pull1D
Entries 88
Mean 0.009619
Std Dev 0.9669
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

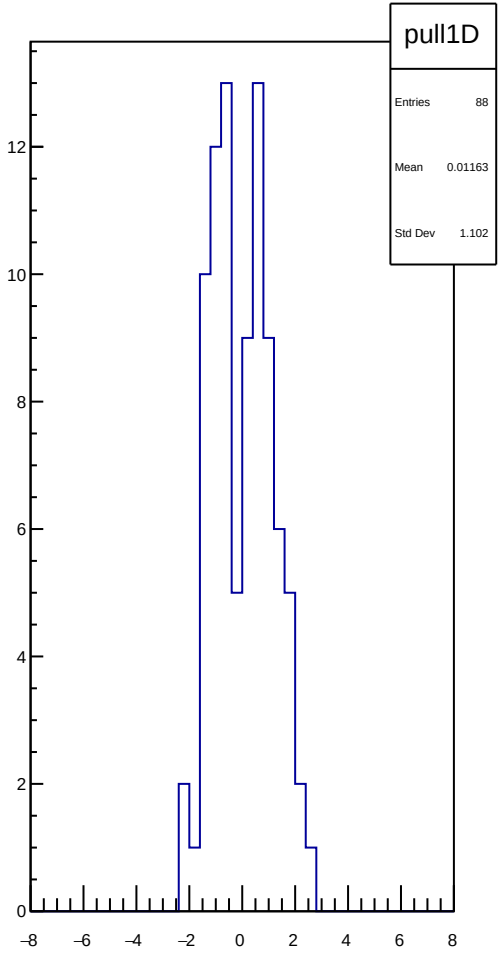

diff_bpmtargetdiffX_rms vs run
χ² / ndf 5465 / 87
p0 1032 ± 0.8009
1150
1100
1050
1000
950
900
850

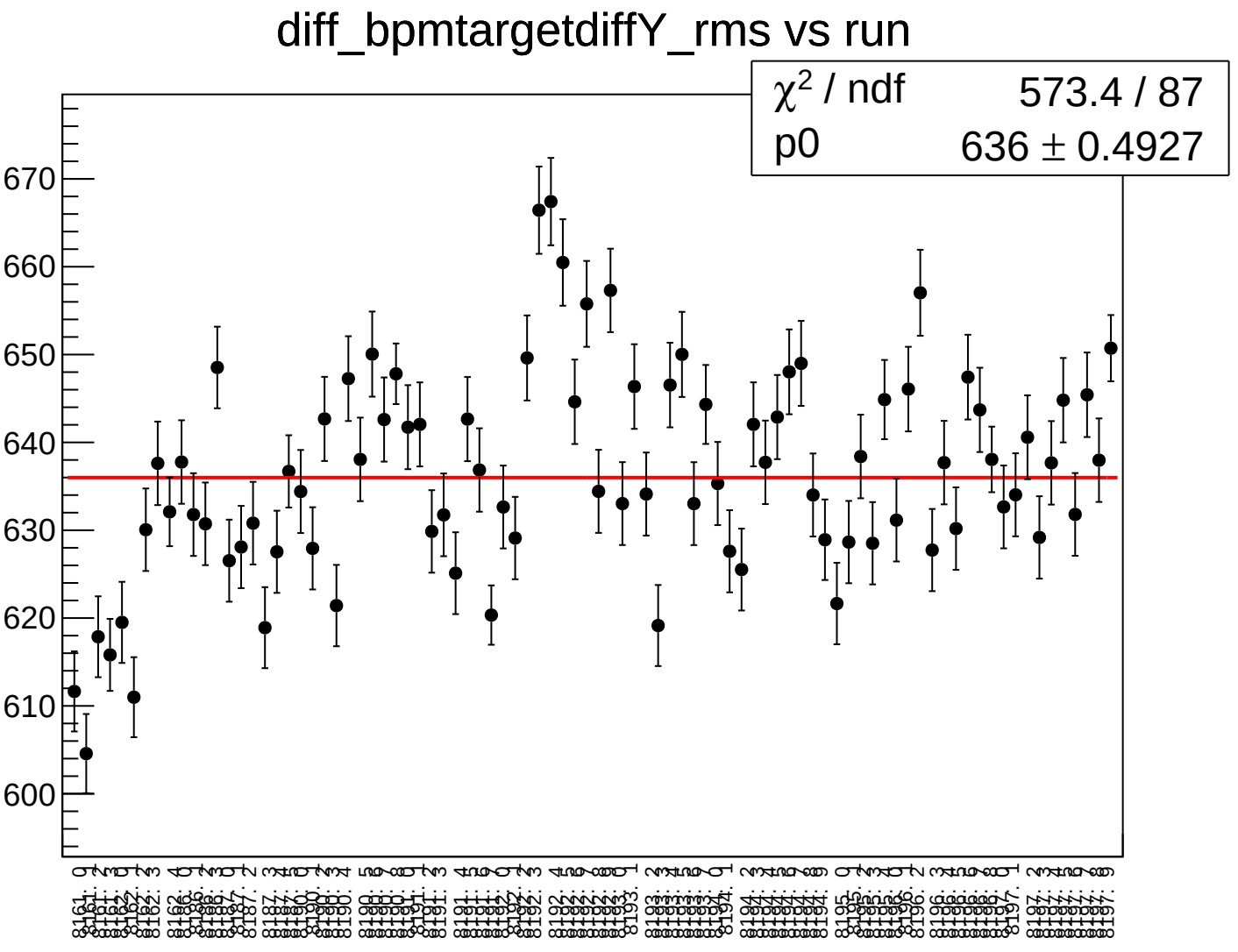

diff_bpmtargetsumY_mean vs run
χ^2 / ndf 95.89 / 87
p0 37.25 ± 12.06
pull
Entries 88
Mean 99.49
Std Dev 0

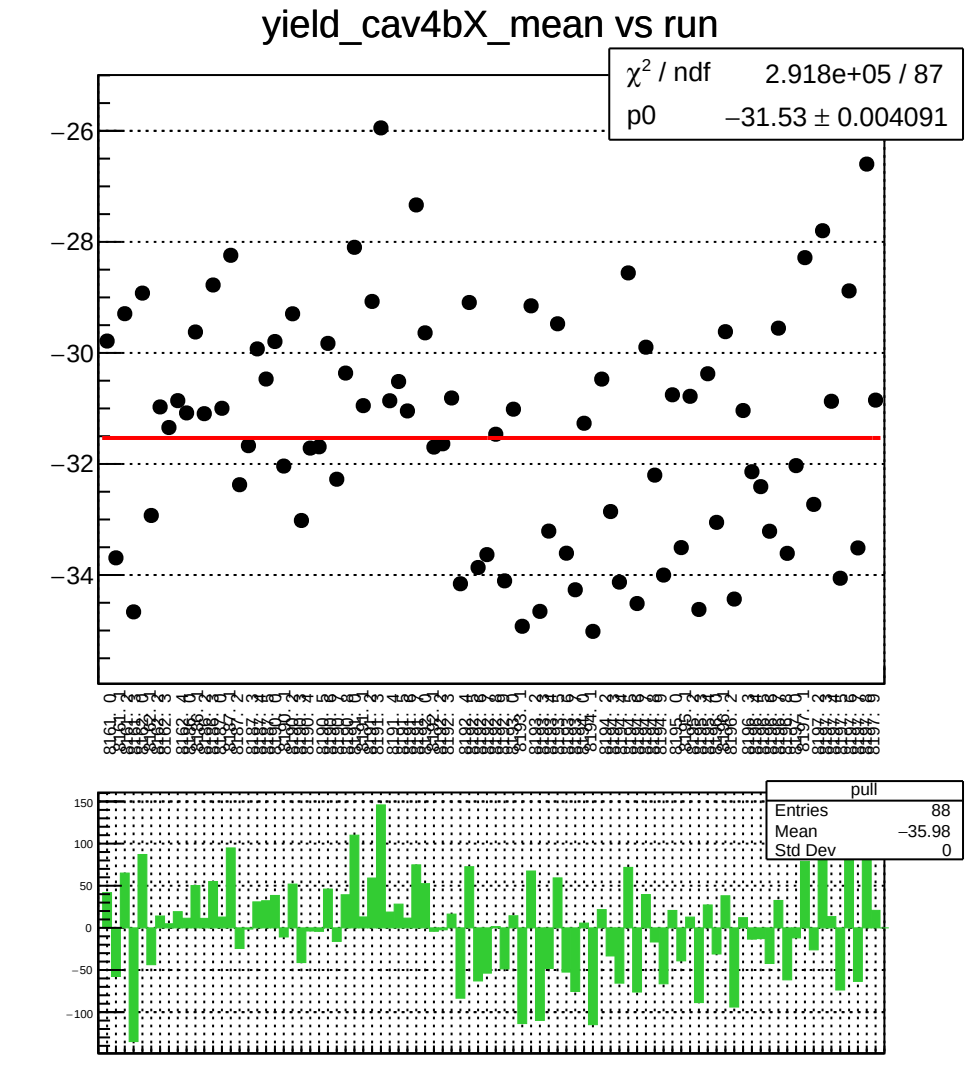

pull1D
Entries 88
Mean 0.03614
Std Dev 1.043

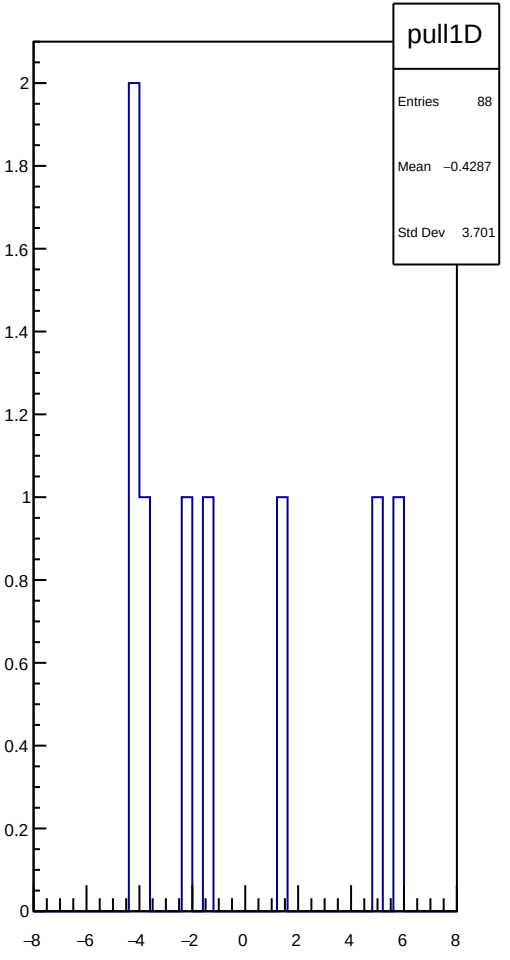

diff_bpmtargetsumY_rms vs run
χ² / ndf 3.555e+04 / 87
p0 1.089e+04 ± 8.529
14000
13000
12000
11000
10000
9000
8000
7000

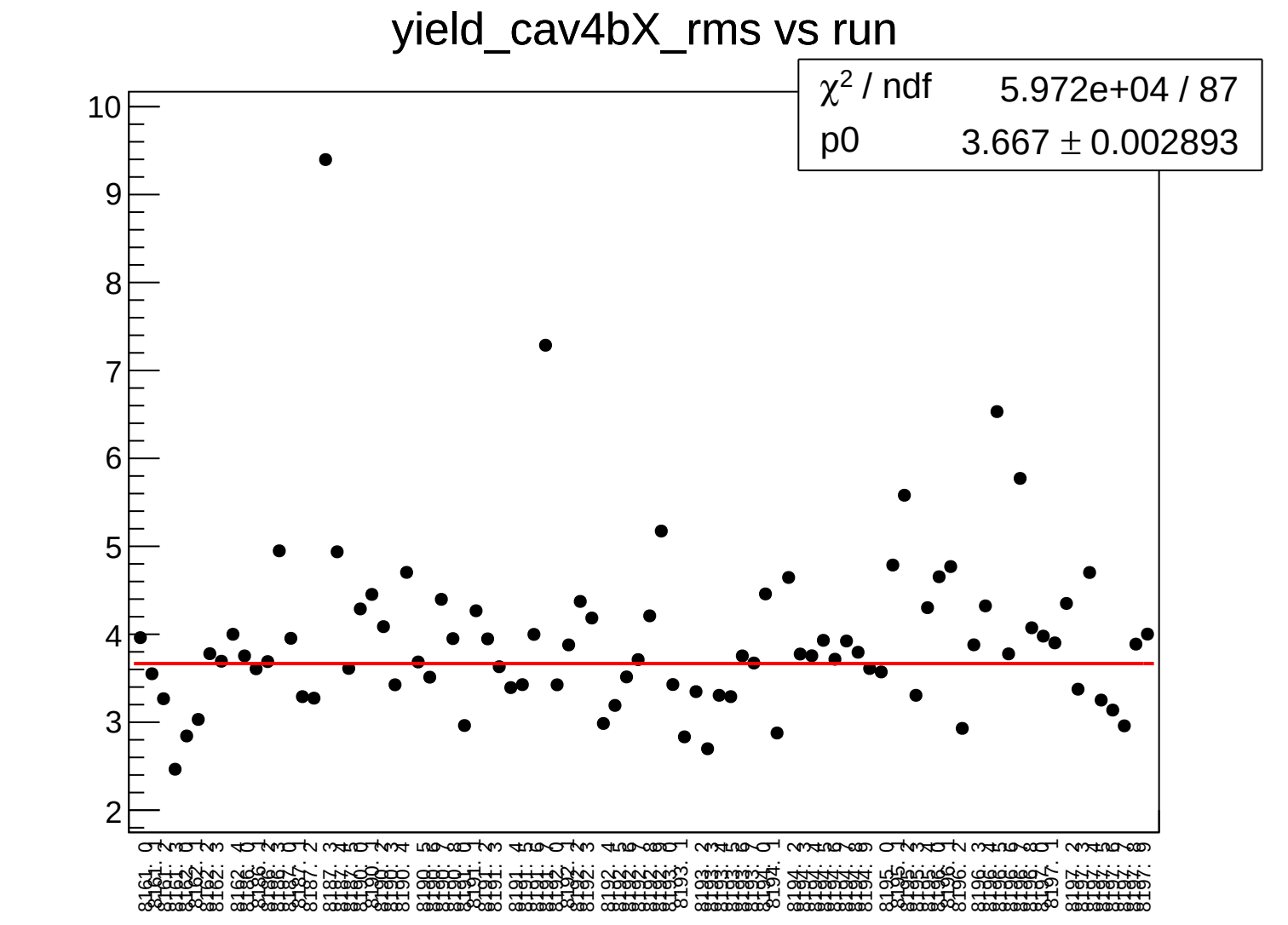

diff_bpmtargetdiffY_mean vs run
χ² / ndf 106.9 / 87
p0 −1.074 ± 0.6968
pull
Entries 88
Mean 476.9
Std Dev 0

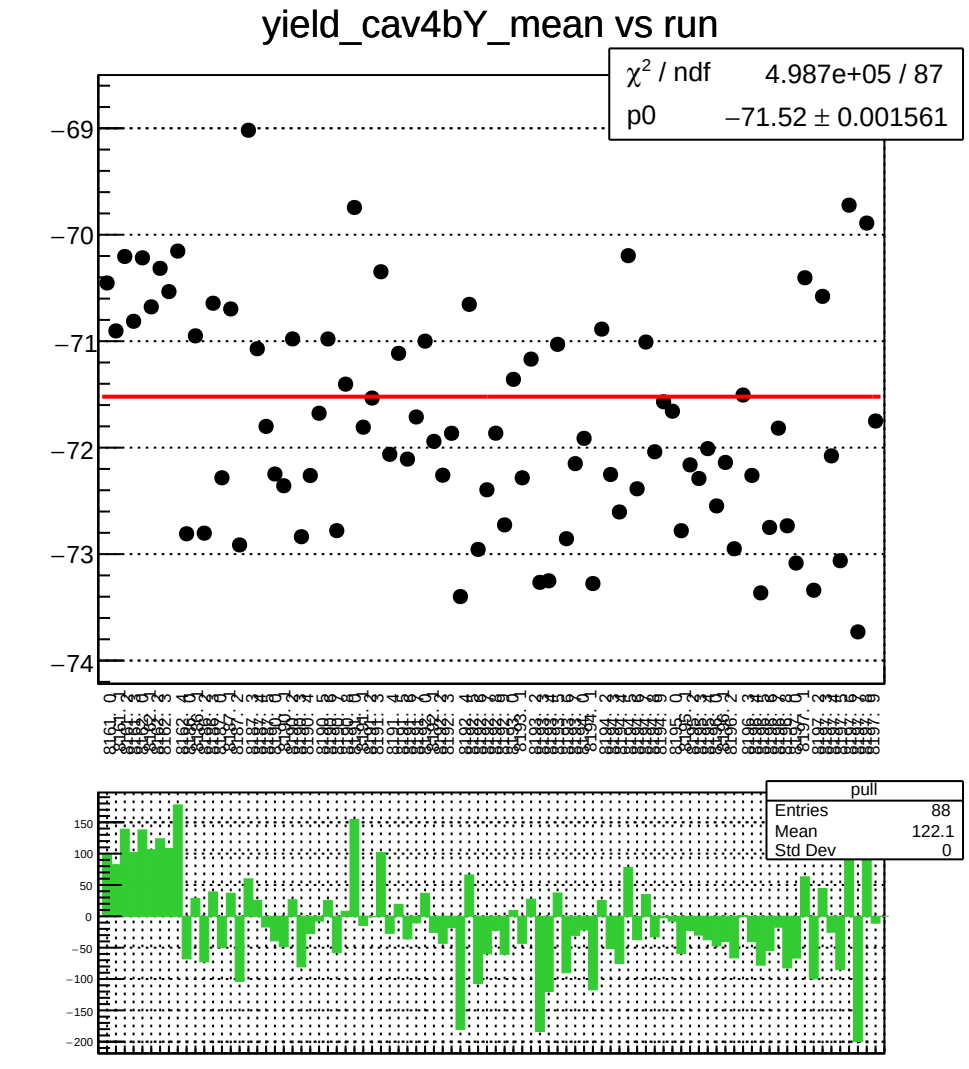

pull1D
Entries 88
Mean 0.01163
Std Dev 1.102

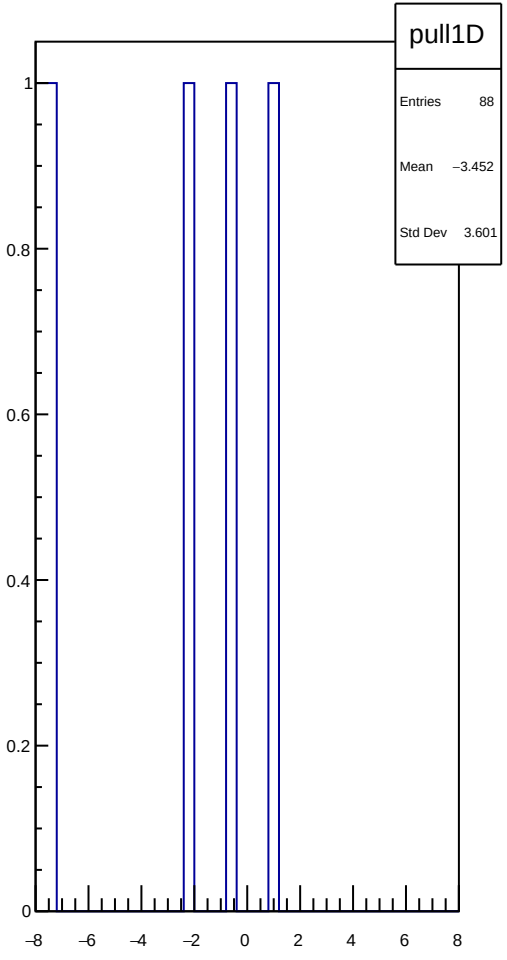

diff_bpmtargetdiffY_rms vs run
χ² / ndf 573.4 / 87
p0 636 ± 0.4927
670
660
650
640
630
620
610
600

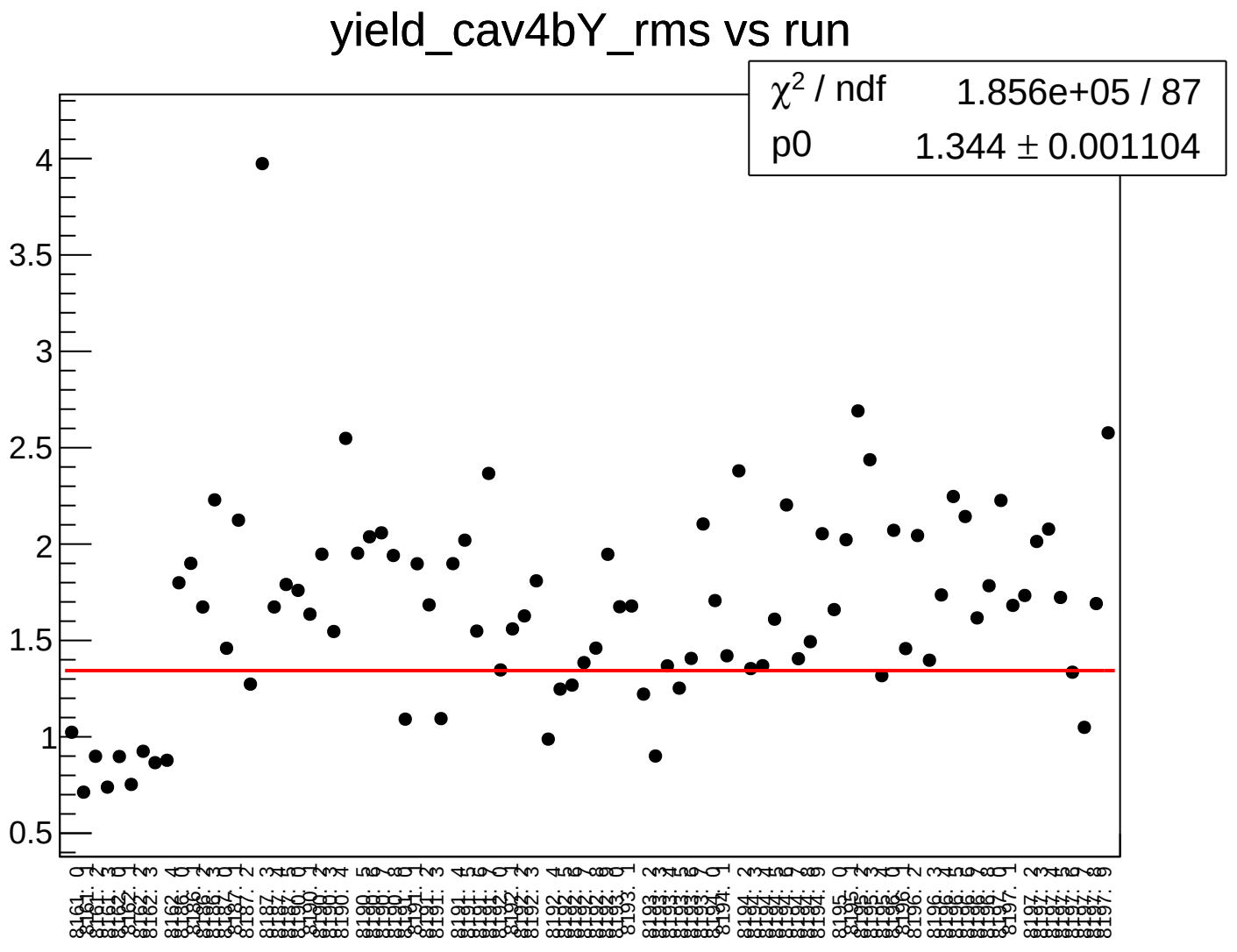

yield_cav4bX_mean vs run
χ² / ndf 2.918e+05 / 87
p0 −31.53 ± 0.004091
−26
−28
−30
−32
−34
pull
Entries 88
Mean −35.98
Std Dev 0
150
100
50
0
−50
−100

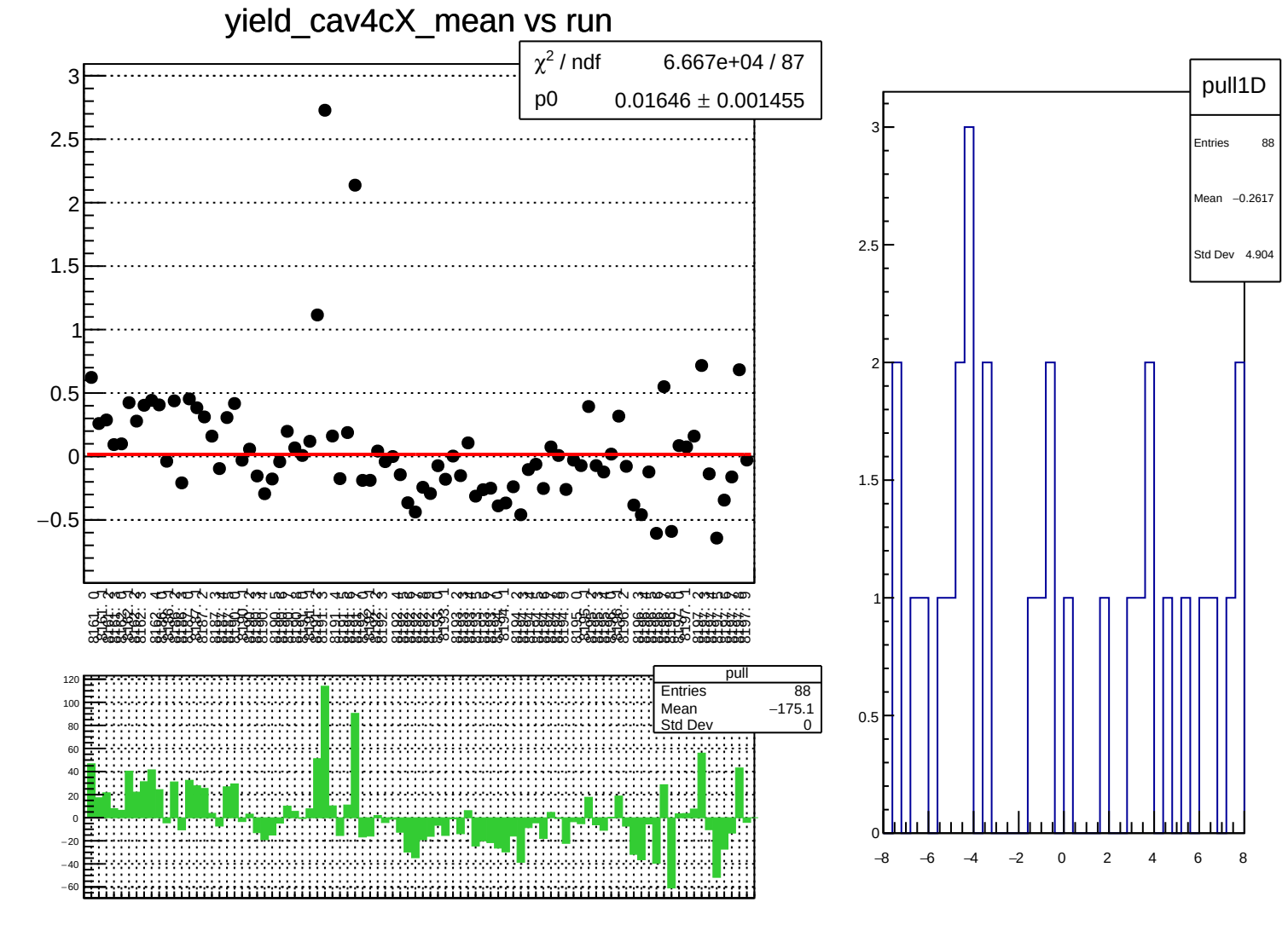

pull1D
Entries 88
Mean −0.4287
Std Dev 3.701
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

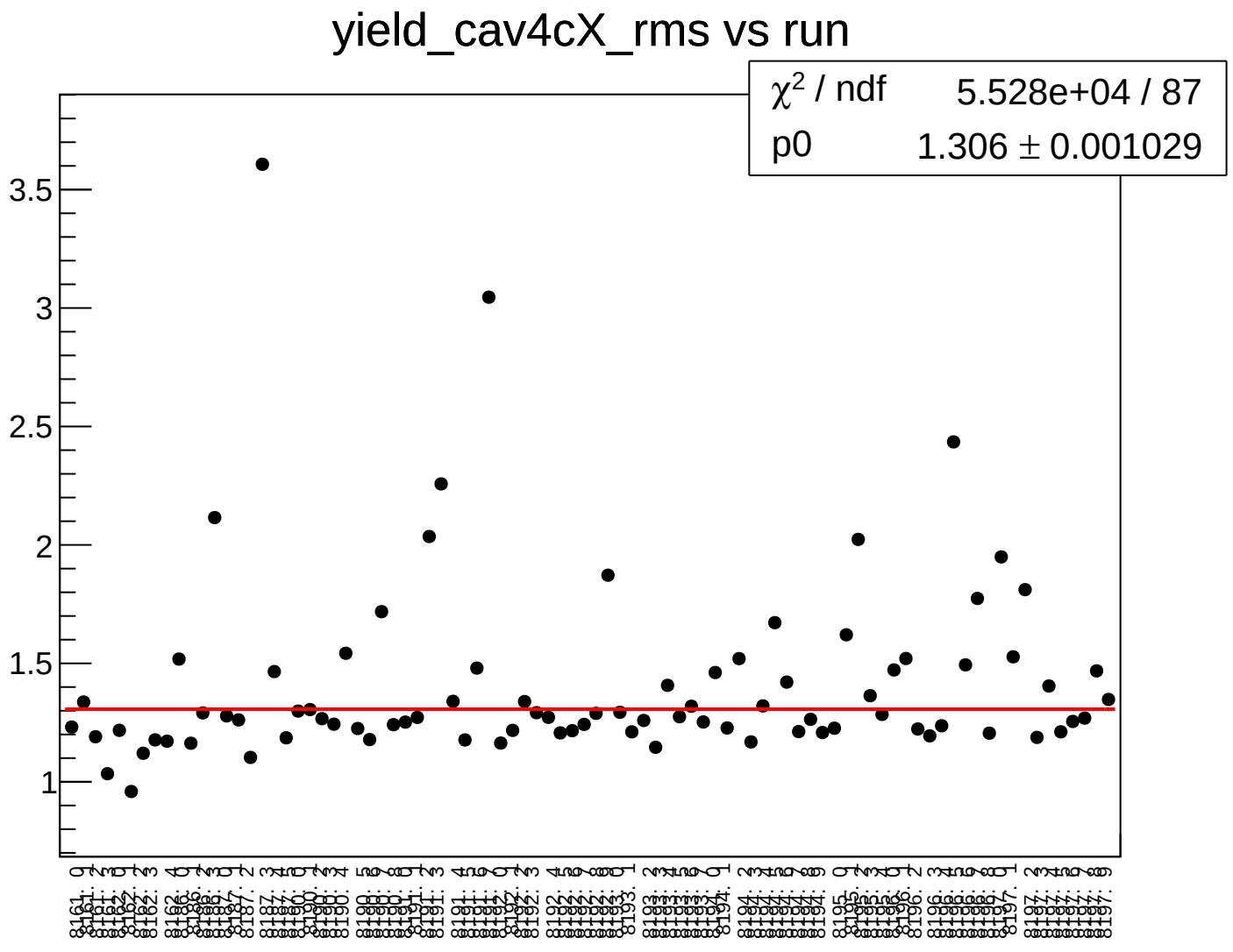

yield_cav4bX_rms vs run
χ^2 / ndf 5.972e+04 / 87
p0 3.667 ± 0.002893
10
9
8
7
6
5
4
3
2

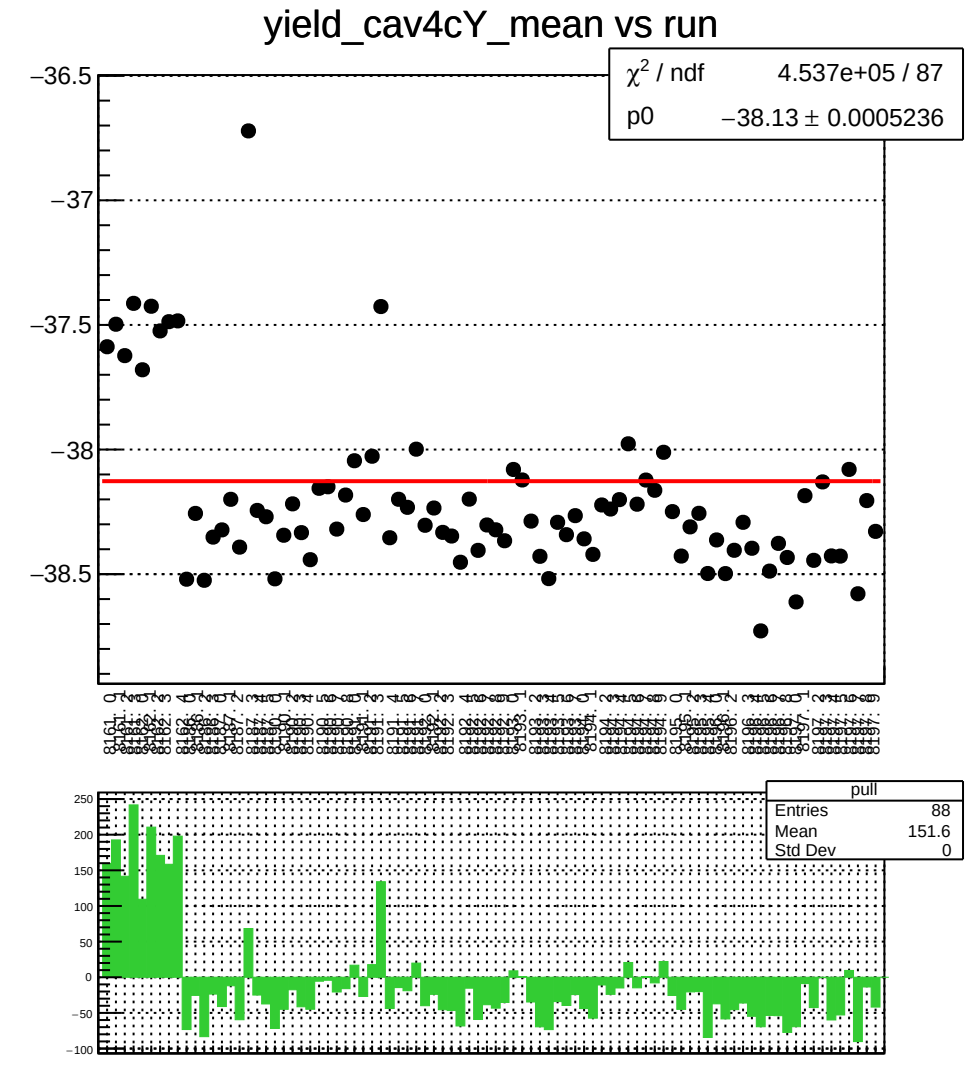

yield_cav4bY_mean vs run
χ² / ndf 4.987e+05 / 87
p0 −71.52 ± 0.001561
−69
−70
−71
−72
−73
−74
pull
Entries 88
Mean 122.1
Std Dev 0
150
100
50
0
−50
−100
−150
−200

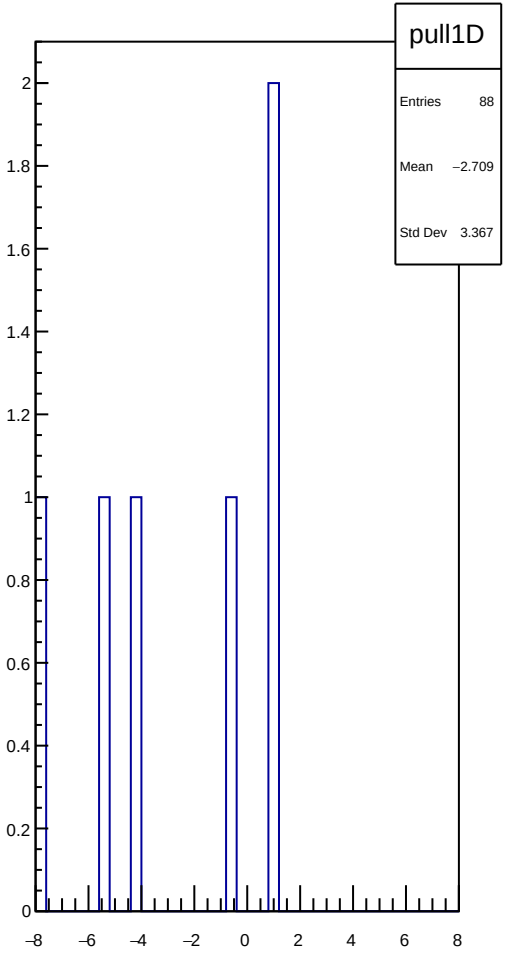

pull1D
Entries 88
Mean −3.452
Std Dev 3.601
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

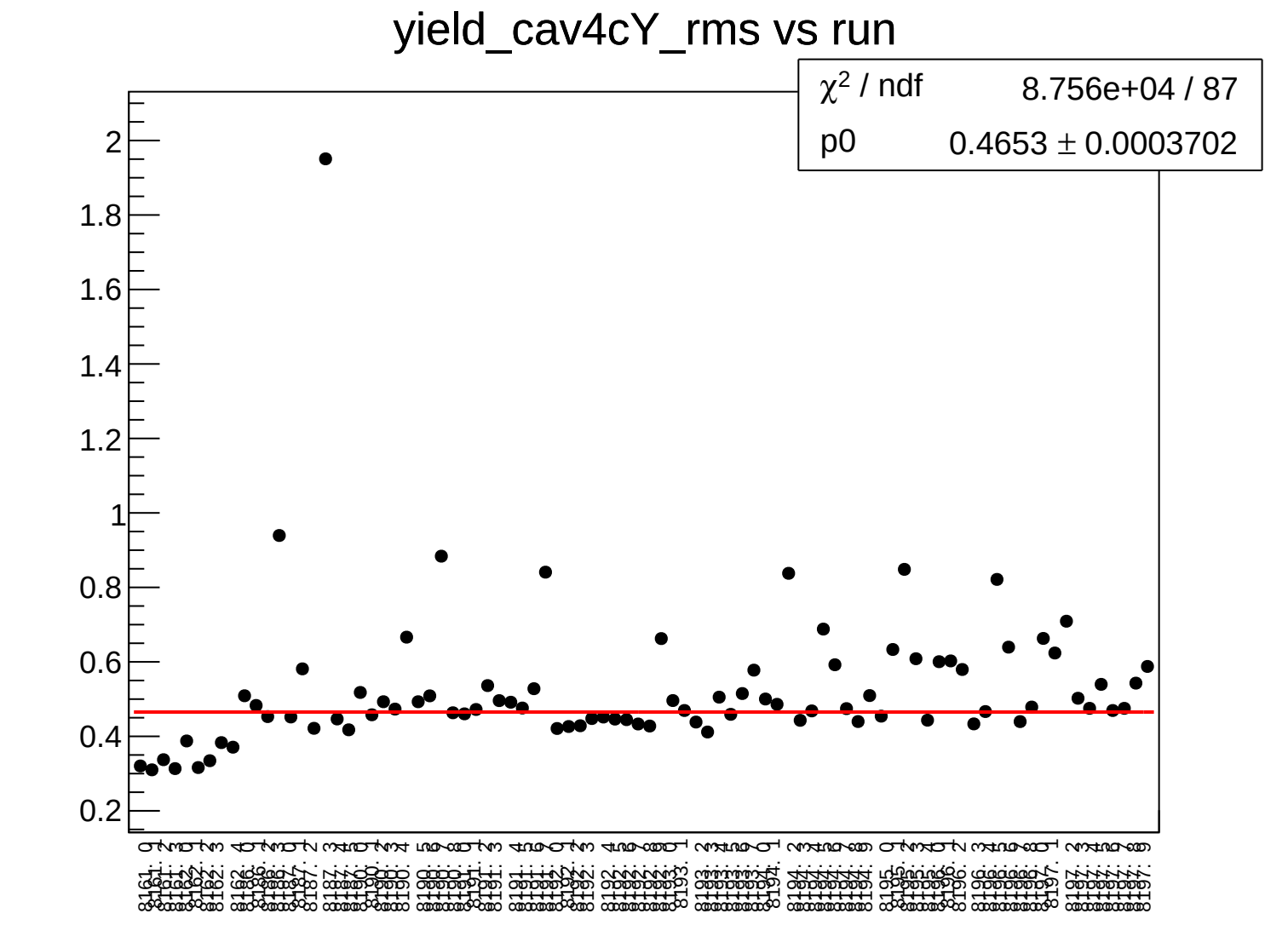

yield_cav4bY_rms vs run
χ² / ndf 1.856e+05 / 87
p0 1.344 ± 0.001104
4
3.5
3
2.5
2
1.5
1
0.5

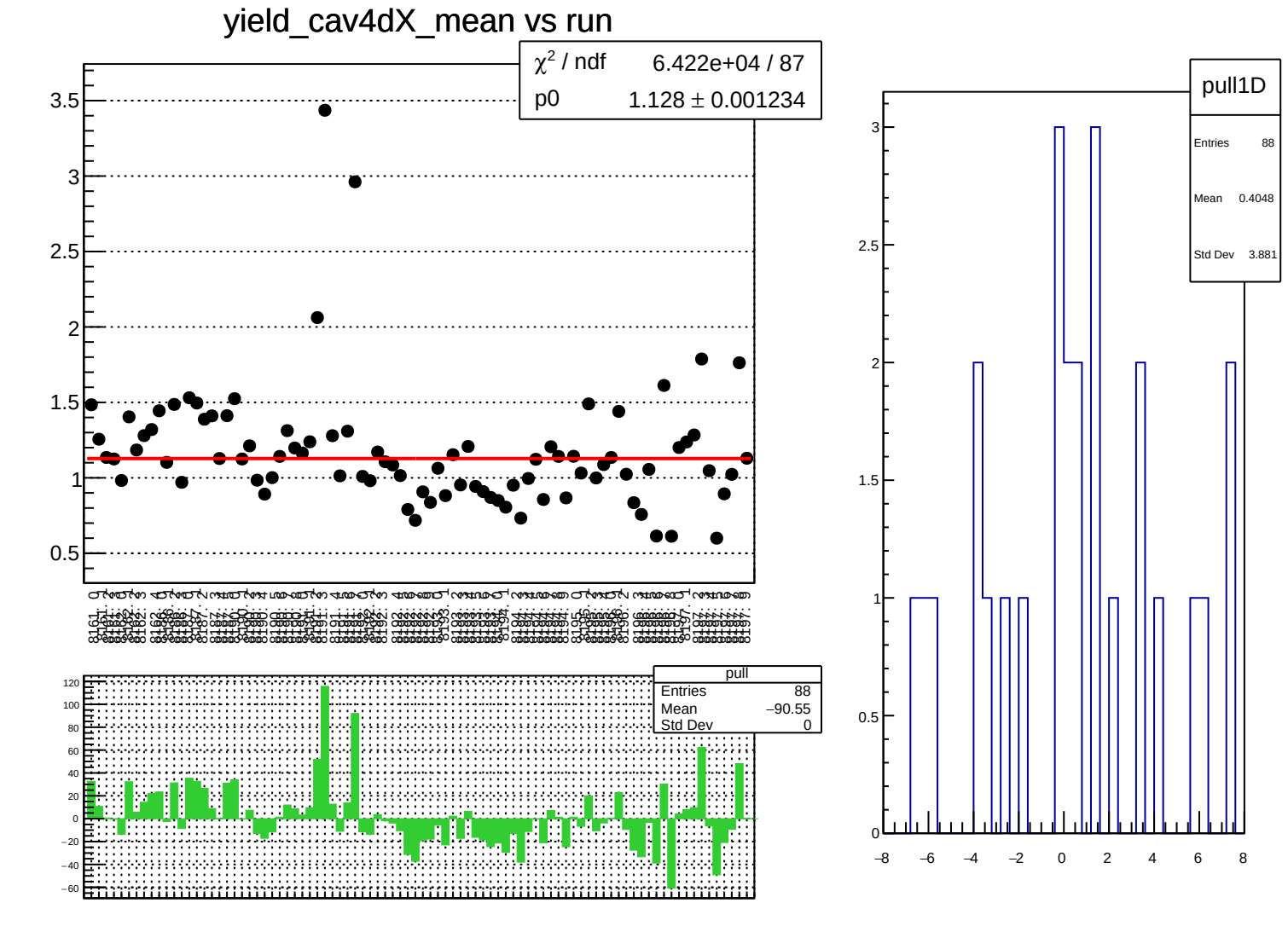

yield_cav4cX_mean vs run
χ² / ndf 6.667e+04 / 87
p0 0.01646 ± 0.001455
pull
Entries 88
Mean −175.1
Std Dev 0
pull1D
Entries 88
Mean −0.2617
Std Dev 4.904

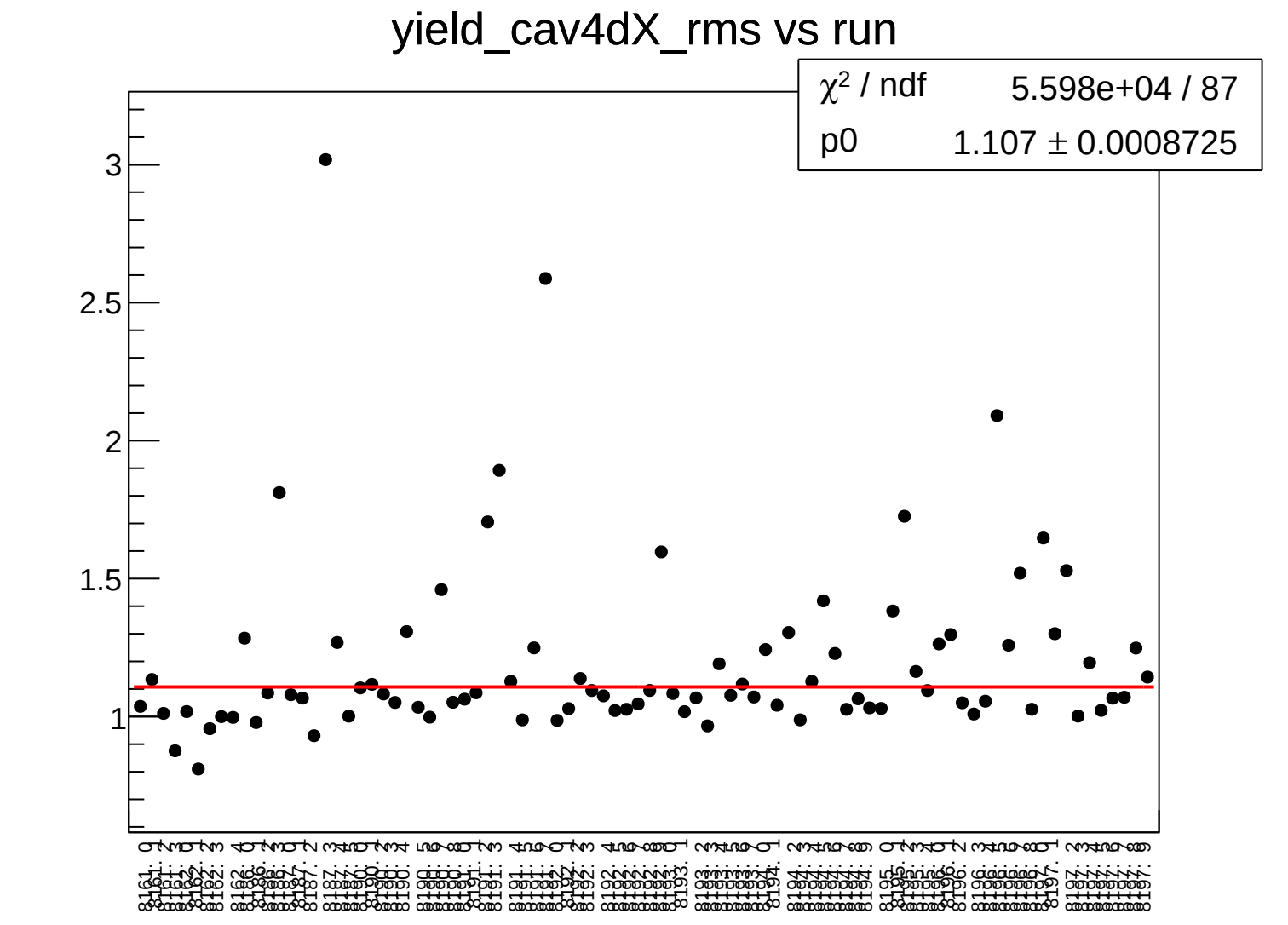

yield_cav4cX_rms vs run
χ² / ndf 5.528e+04 / 87
p0 1.306 ± 0.001029
3.5
3
2.5
2
1.5
1

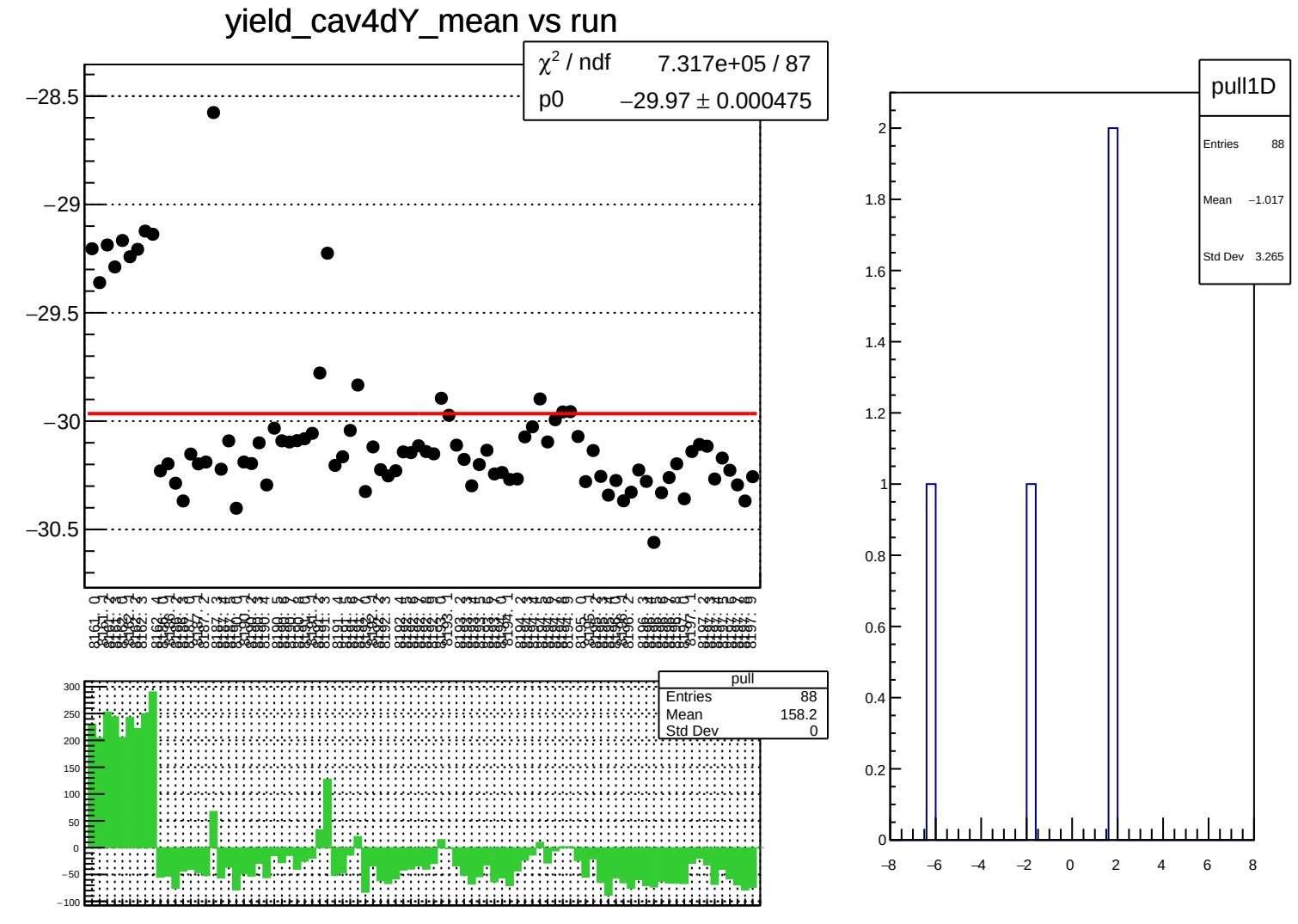

yield_cav4cY_mean vs run
χ² / ndf 4.537e+05 / 87
p0 −38.13 ± 0.0005236
−36.5
−37
−37.5
−38
−38.5
pull
Entries 88
Mean 151.6
Std Dev 0
250
200
150
100
50
0
−50
−100

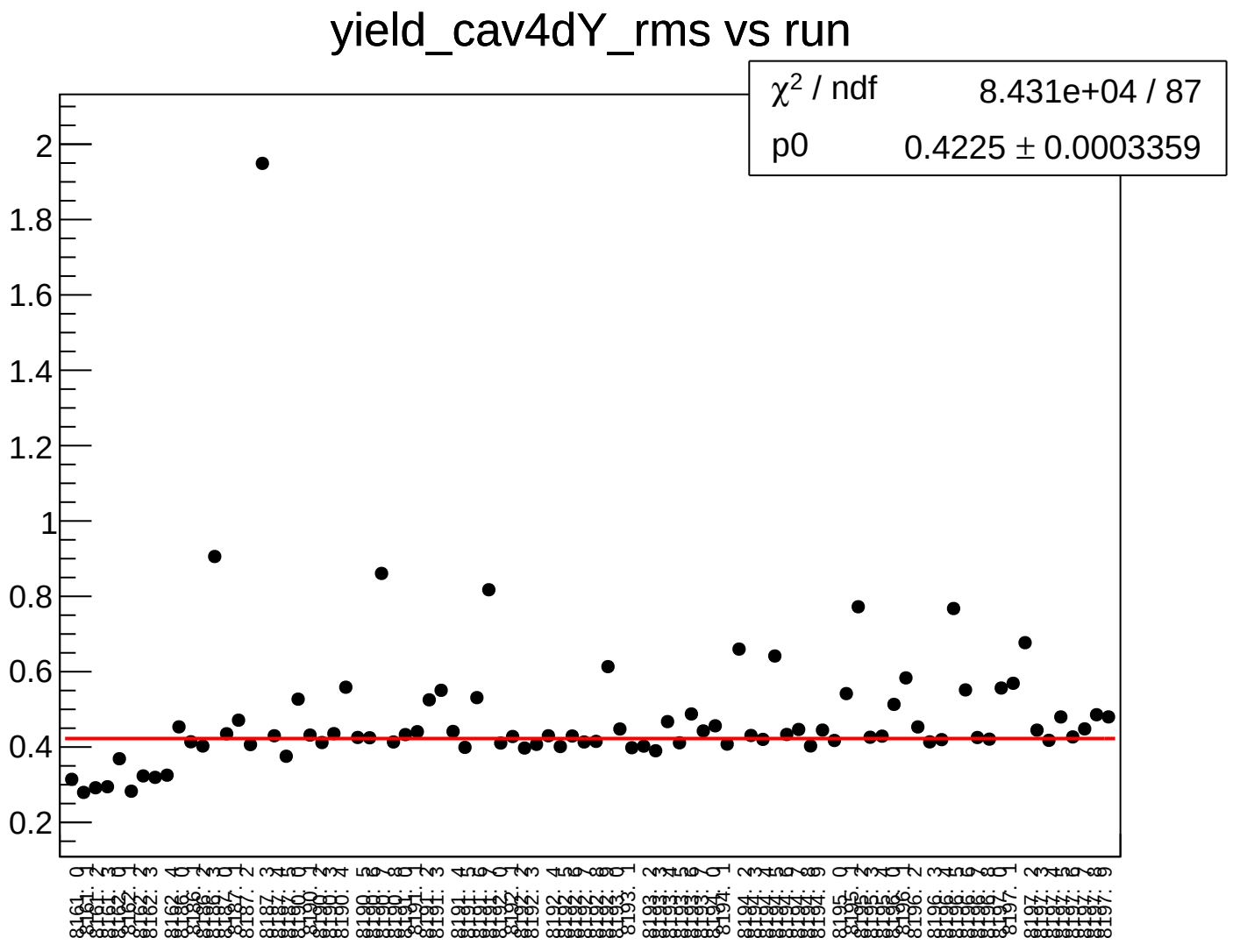

pull1D
Entries 88
Mean −2.709
Std Dev 3.367
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

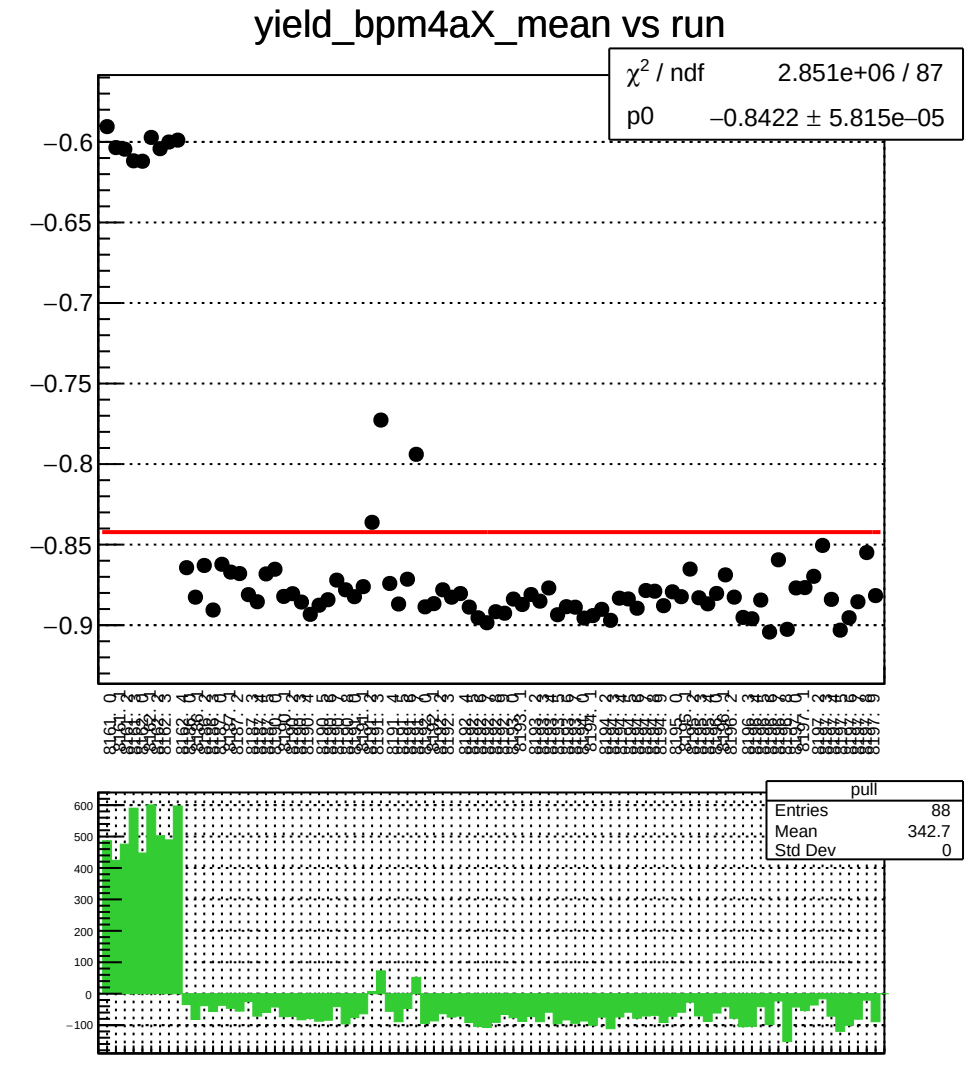

yield_cav4cY_rms vs run
χ² / ndf 8.756e+04 / 87
p0 0.4653 ± 0.0003702
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

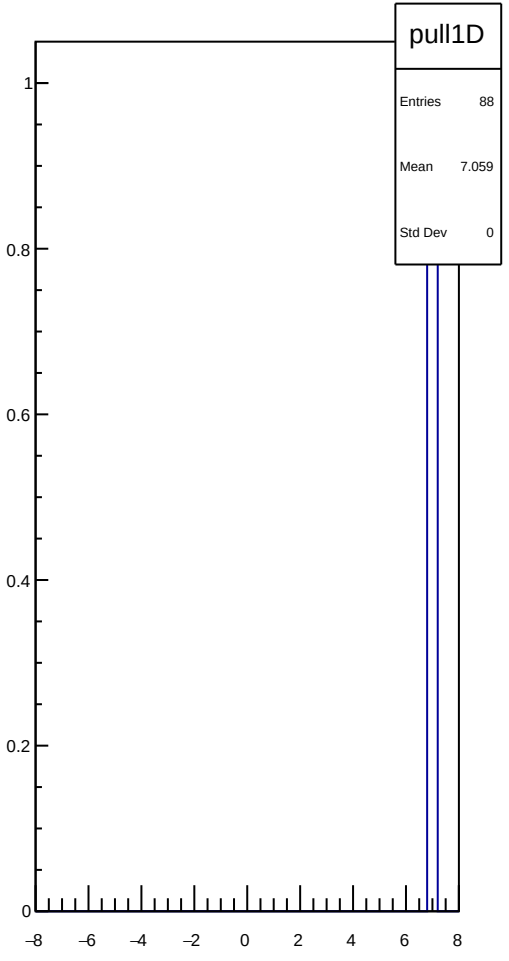

yield_cav4dX_mean vs run
χ² / ndf 6.422e+04 / 87
p0 1.128 ± 0.001234
pull
Entries 88
Mean −90.55
Std Dev 0
pull1D
Entries 88
Mean 0.4048
Std Dev 3.881

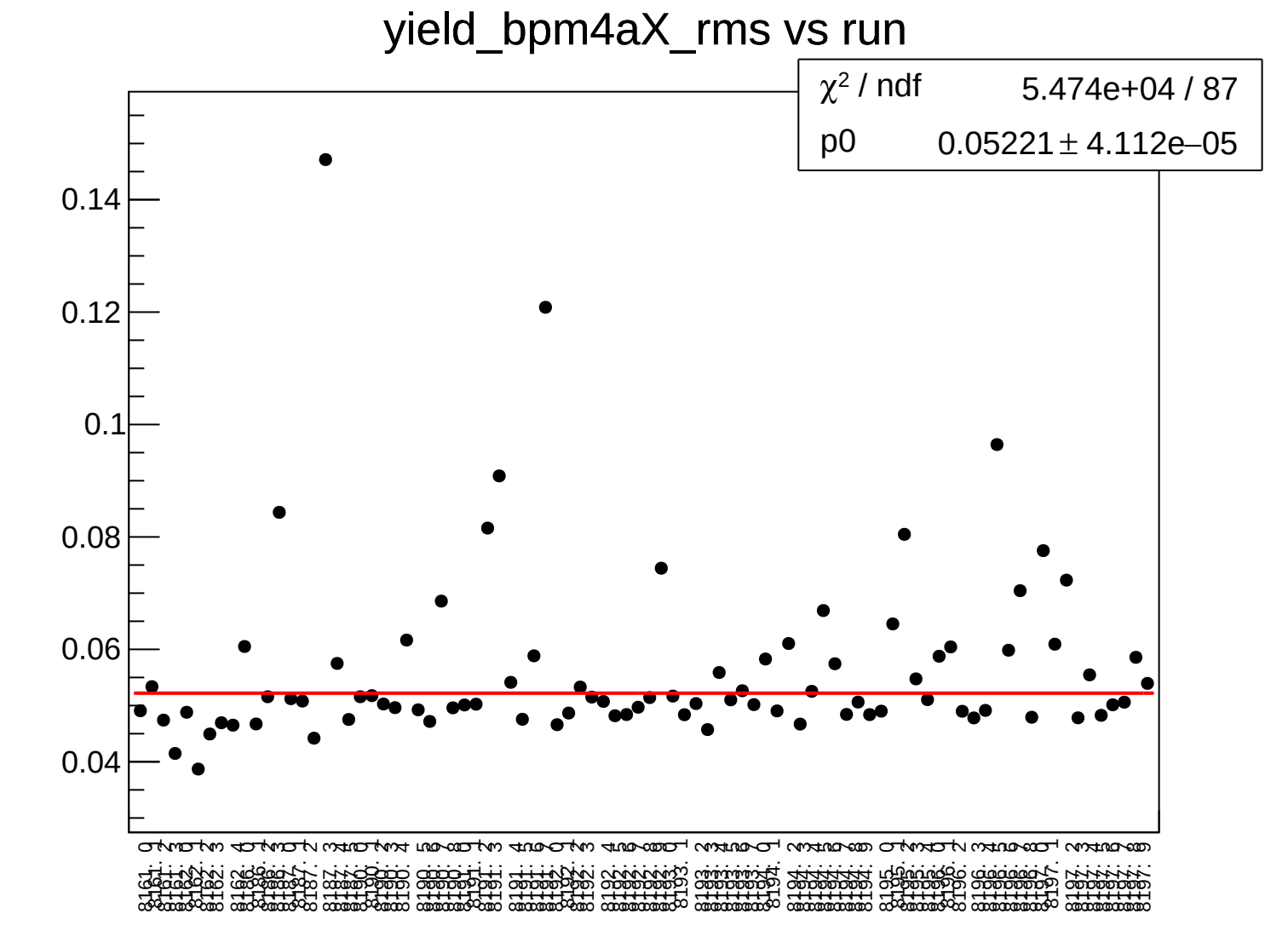

yield_cav4dX_rms vs run
χ² / ndf 5.598e+04 / 87
p0 1.107 ± 0.0008725
3
2.5
2
1.5
1

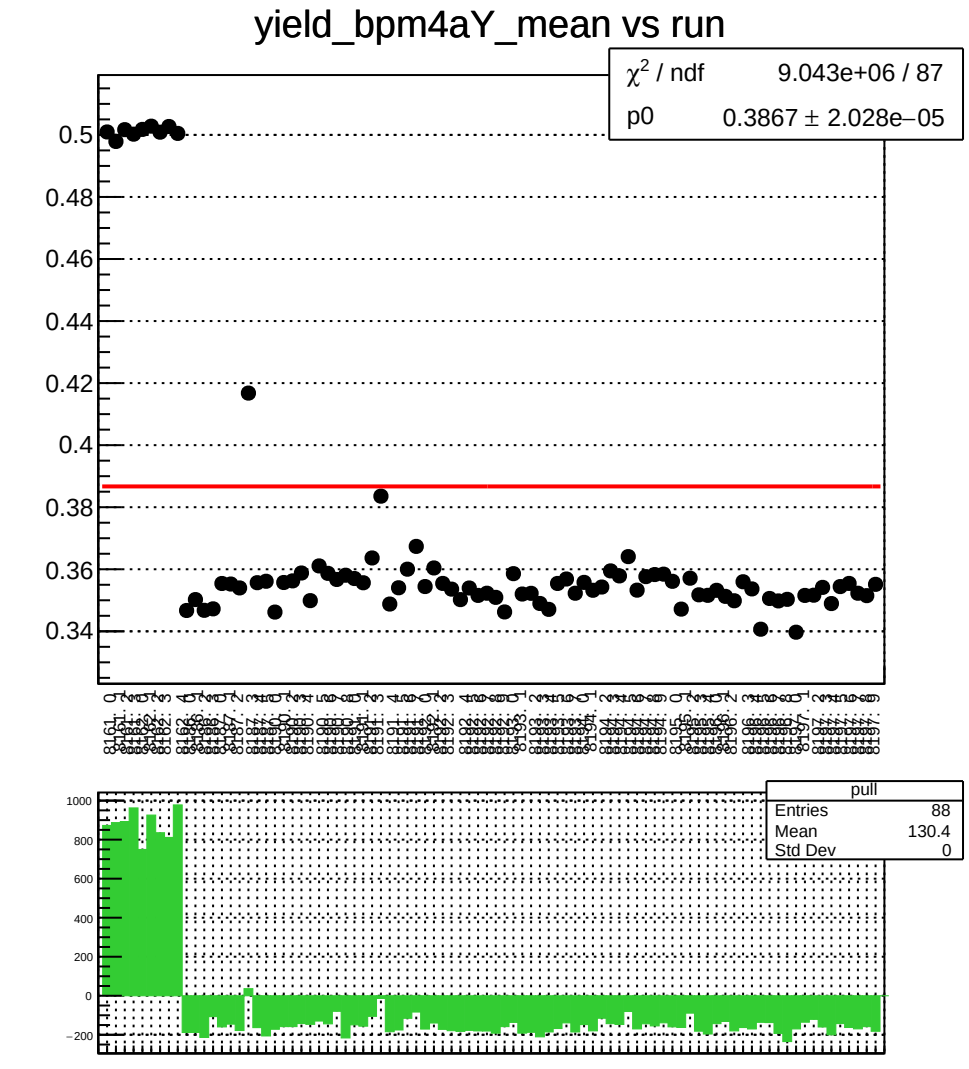

yield_cav4dY_mean vs run
χ² / ndf 7.317e+05 / 87
p0 −29.97 ± 0.000475
−28.5
−29
−29.5
−30
−30.5
pull
Entries 88
Mean 158.2
Std Dev 0
300
250
200
150
100
50
0
−50
−100
pull1D
Entries 88
Mean −1.017
Std Dev 3.265
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

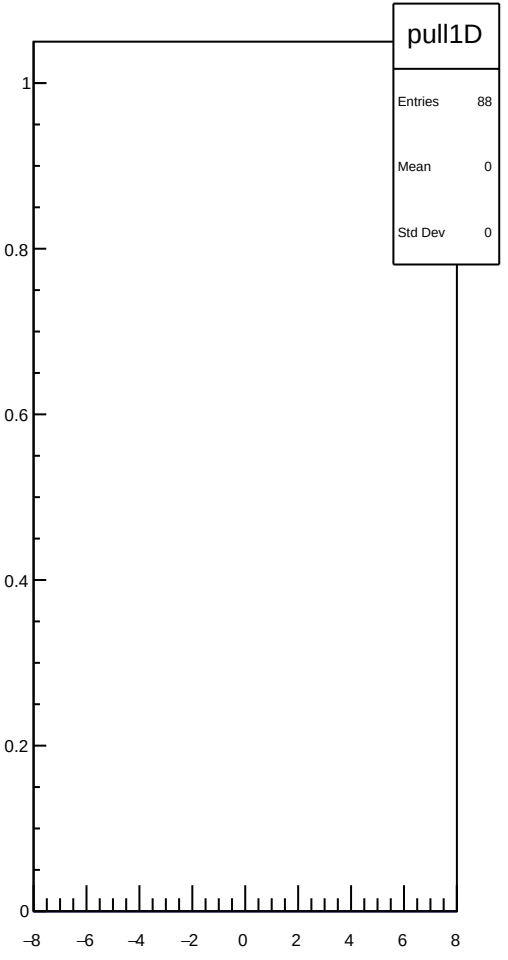

yield_cav4dY_rms vs run
χ² / ndf 8.431e+04 / 87
p0 0.4225 ± 0.0003359
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

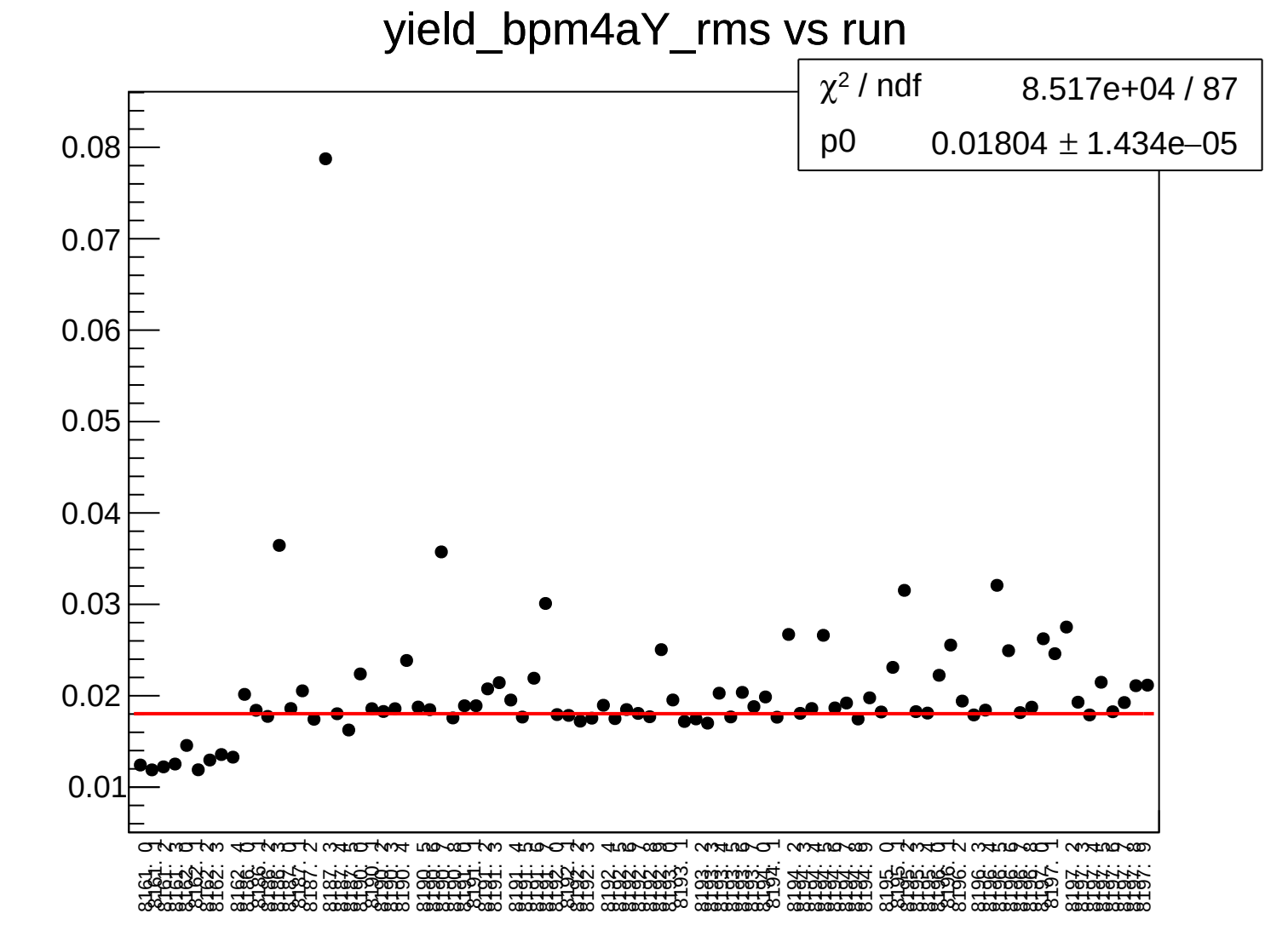

yield_bpm4aX_mean vs run
χ² / ndf 2.851e+06 / 87
p0 −0.8422 ± 5.815e−05
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 88
Mean 342.7
Std Dev 0
600
500
400
300
200
100
0
−100

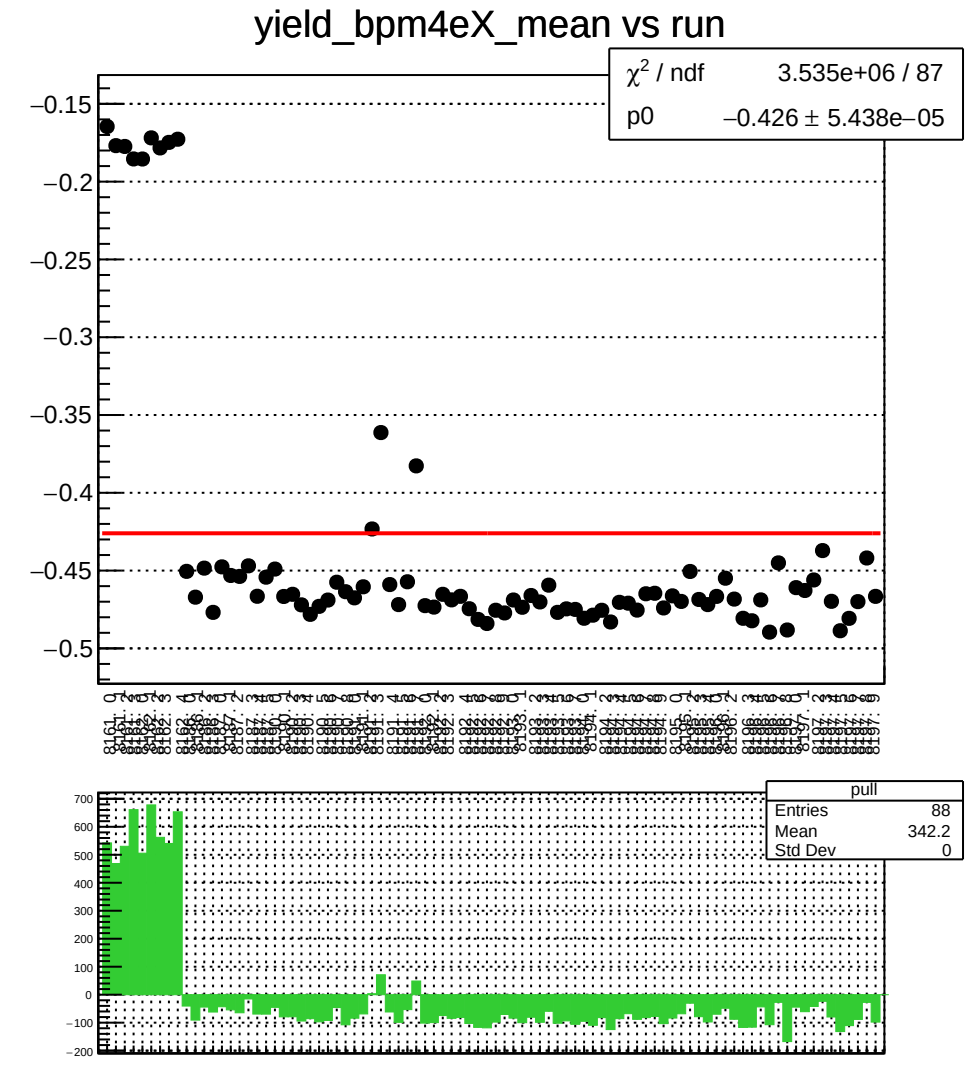

pull1D
Entries 88
Mean 7.059
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

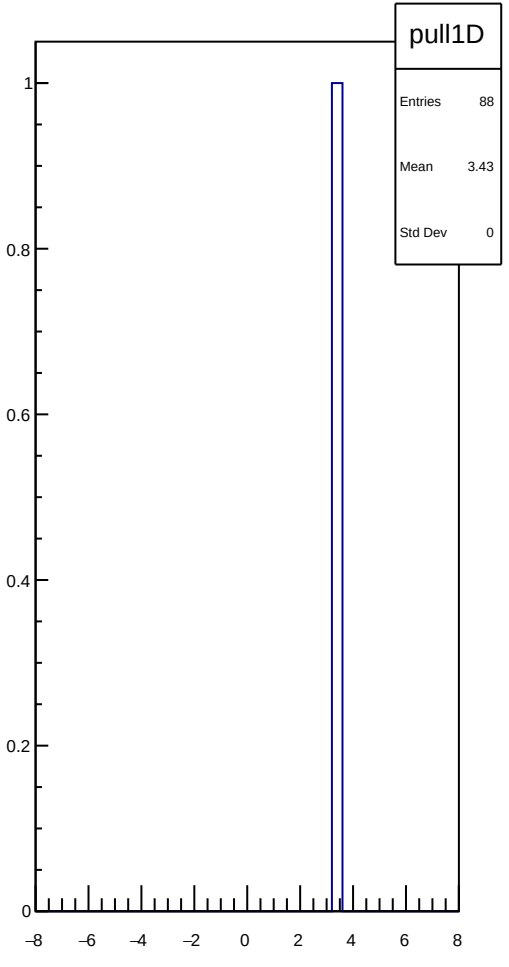

yield_bpm4aX_rms vs run
χ² / ndf 5.474e+04 / 87
p0 0.05221 ± 4.112e–05
0.14
0.12
0.1
0.08
0.06
0.04

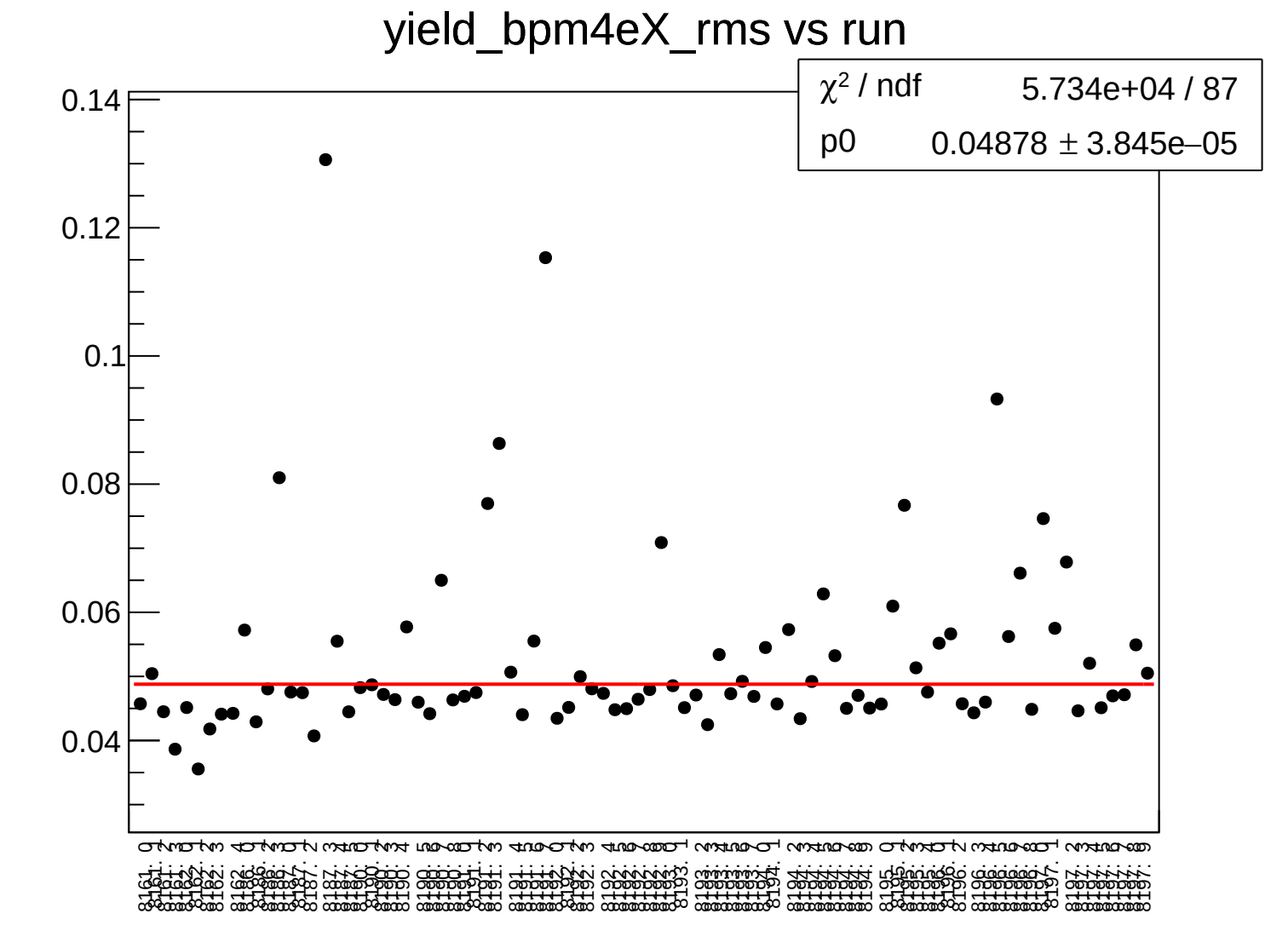

yield_bpm4aY_mean vs run
χ² / ndf 9.043e+06 / 87
p0 0.3867 ± 2.028e−05
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
pull
Entries 88
Mean 130.4
Std Dev 0
1000
800
600
400
200
0
−200

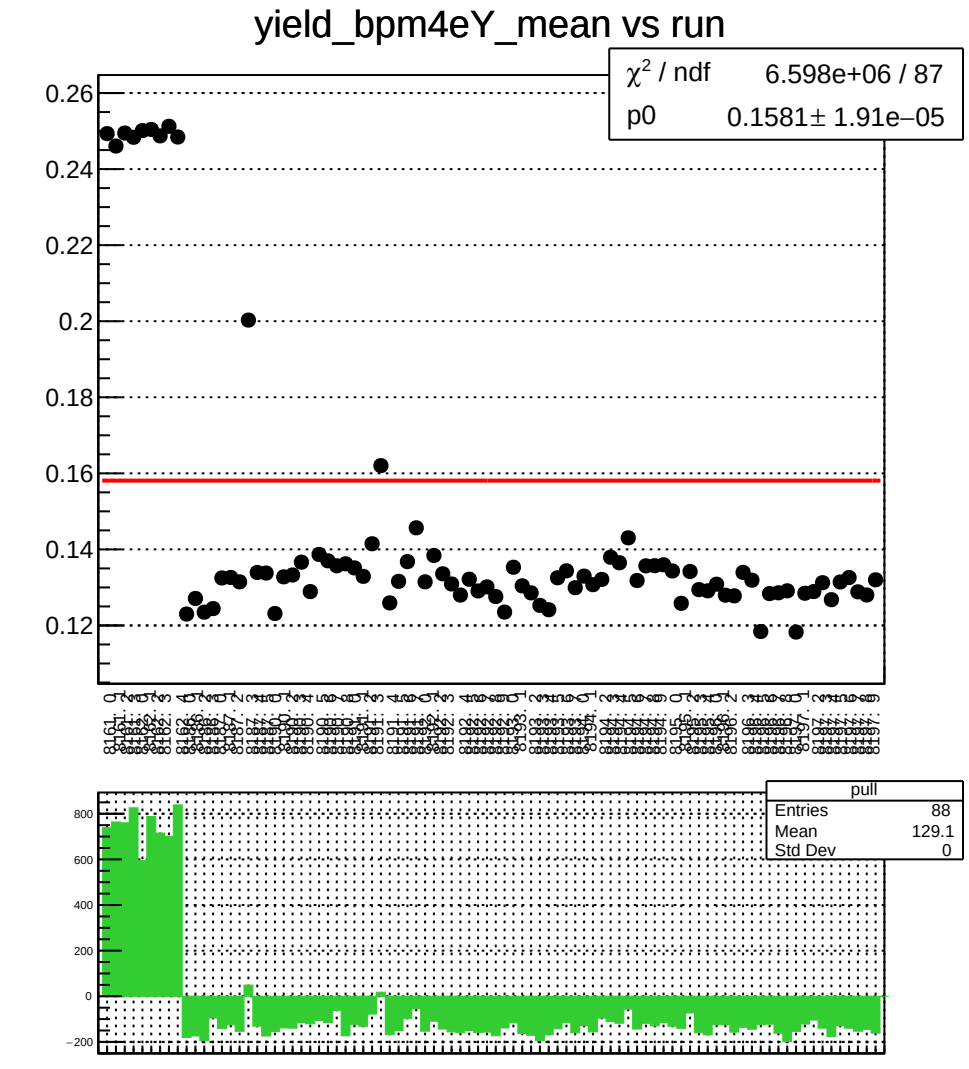

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

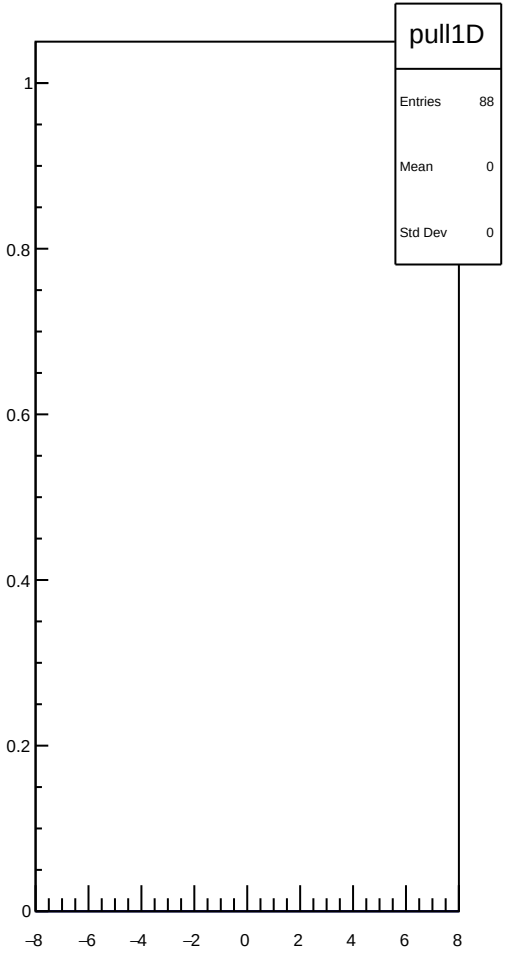

yield_bpm4aY_rms vs run
χ² / ndf 8.517e+04 / 87
p0 0.01804 ± 1.434e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

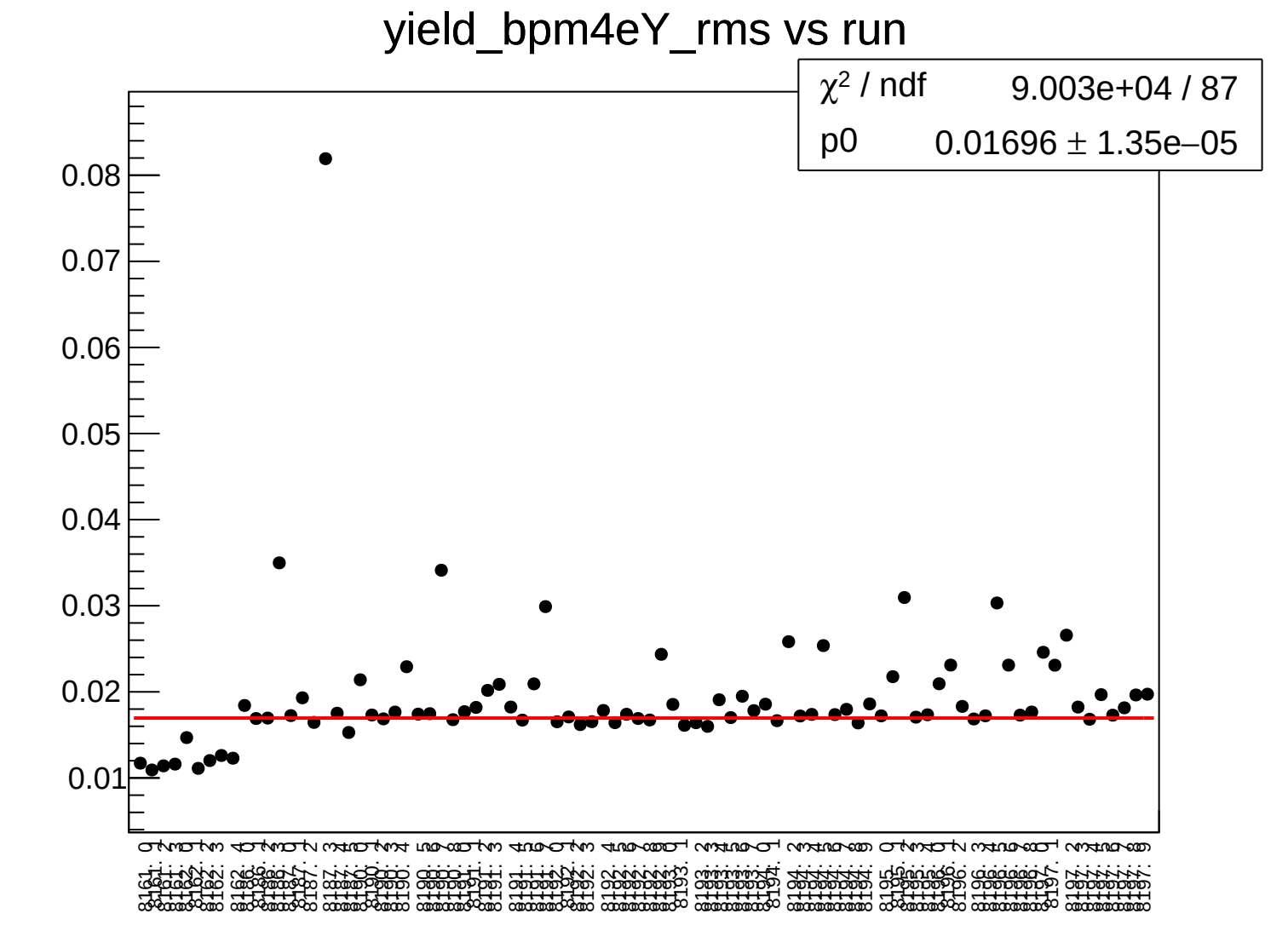

yield_bpm4eX_mean vs run
χ² / ndf 3.535e+06 / 87
p0 −0.426 ± 5.438e−05
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 88
Mean 342.2
Std Dev 0
700
600
500
400
300
200
100
0
−100
−200

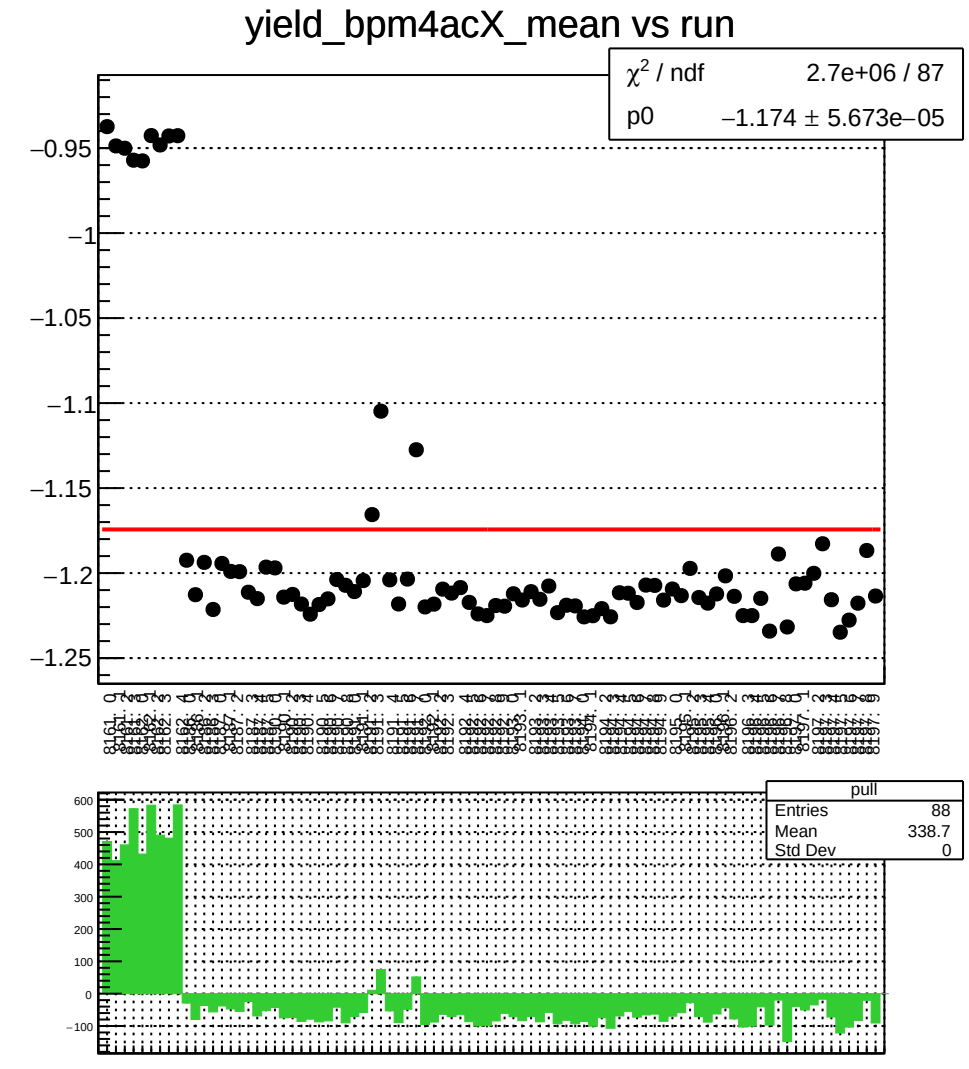

pull1D
Entries 88
Mean 3.43
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

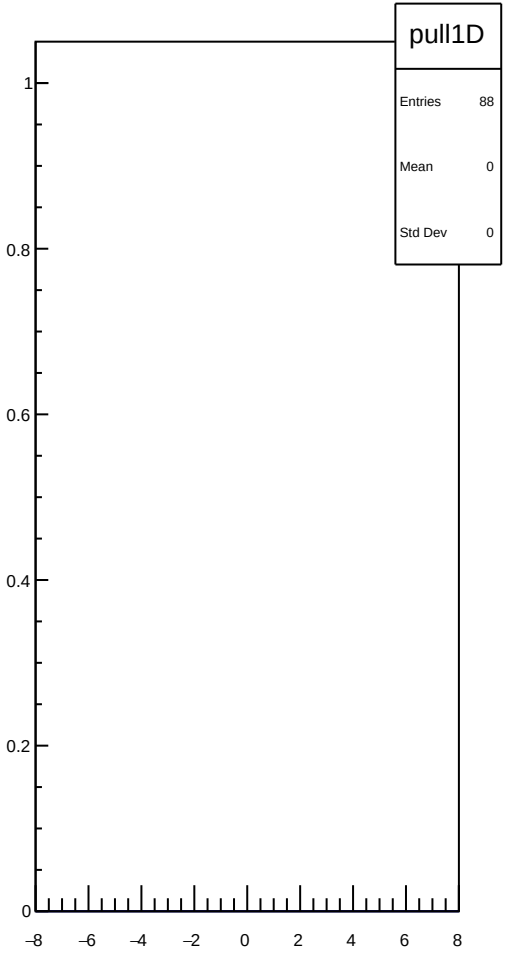

yield_bpm4eX_rms vs run
χ² / ndf 5.734e+04 / 87
p0 0.04878 ± 3.845e–05
0.14
0.12
0.1
0.08
0.06
0.04

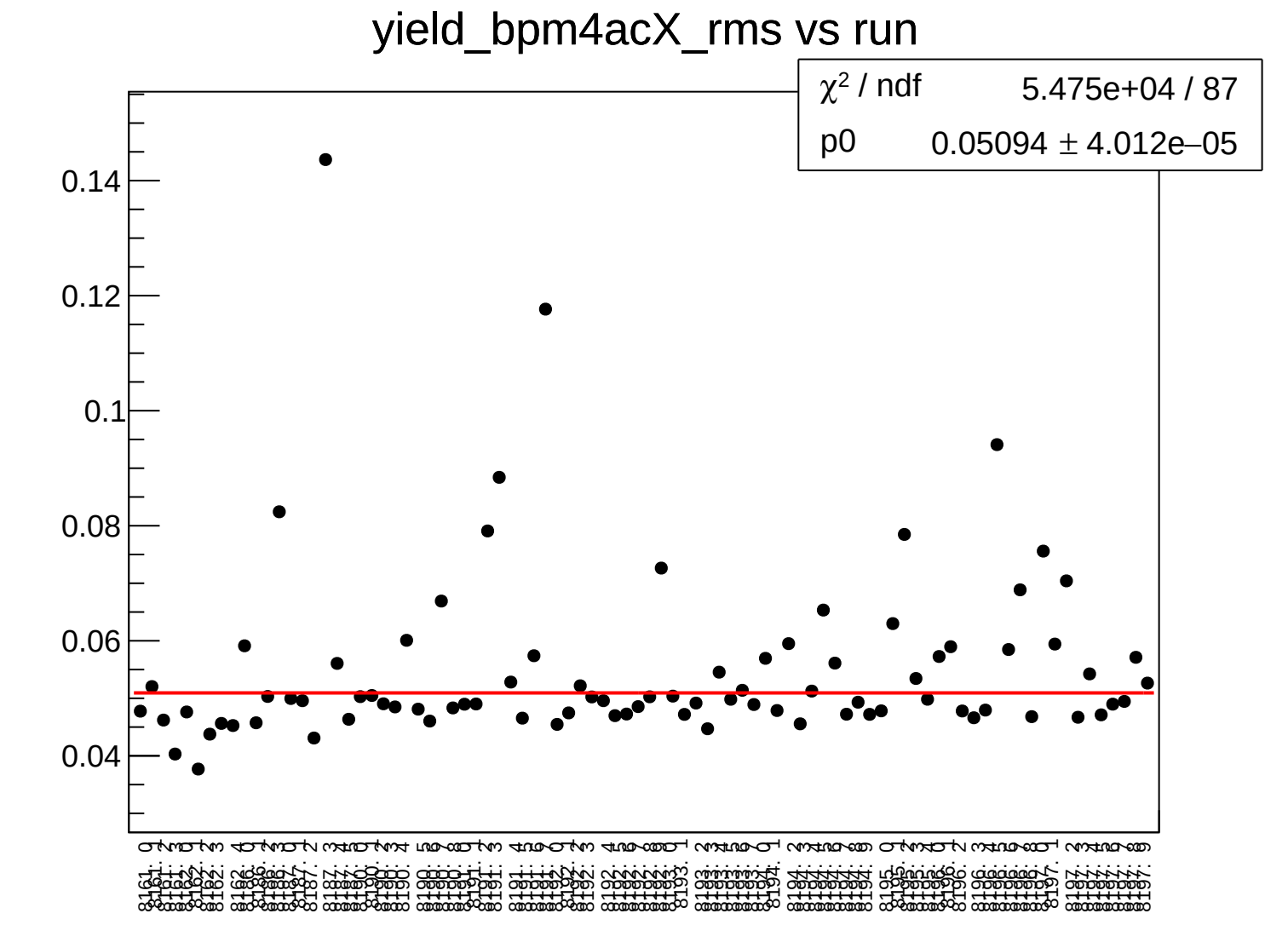

yield_bpm4eY_mean vs run
χ² / ndf 6.598e+06 / 87
p0 0.1581± 1.91e−05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
pull
Entries 88
Mean 129.1
Std Dev 0
800
600
400
200
0
−200

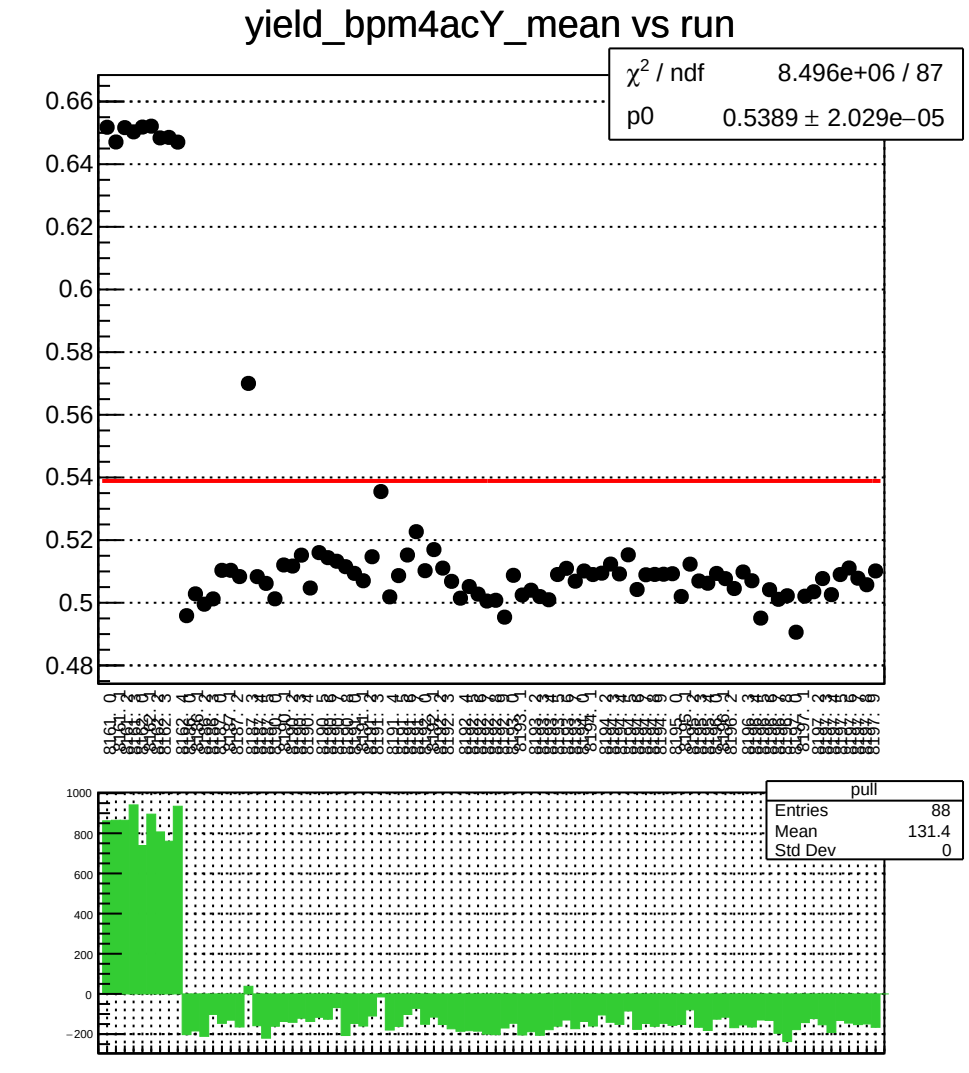

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

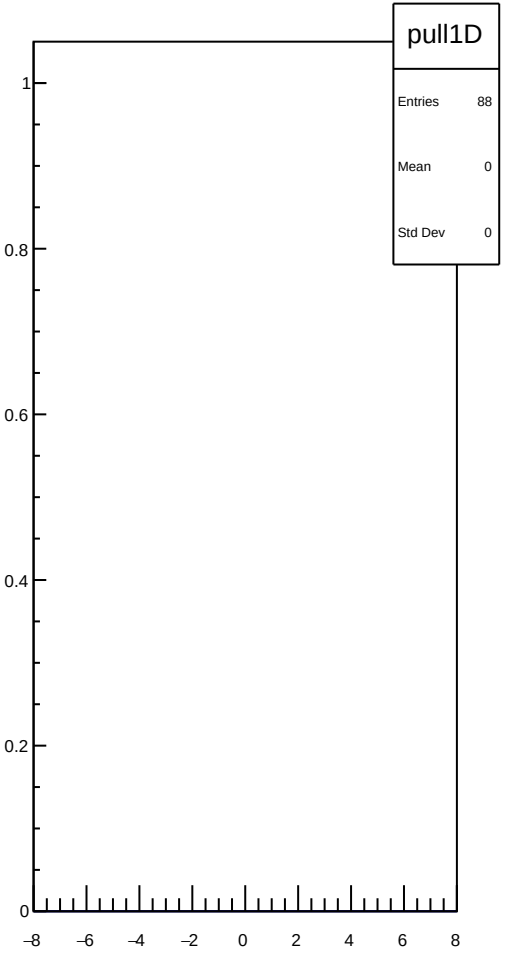

yield_bpm4eY_rms vs run
χ² / ndf 9.003e+04 / 87
p0 0.01696 ± 1.35e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

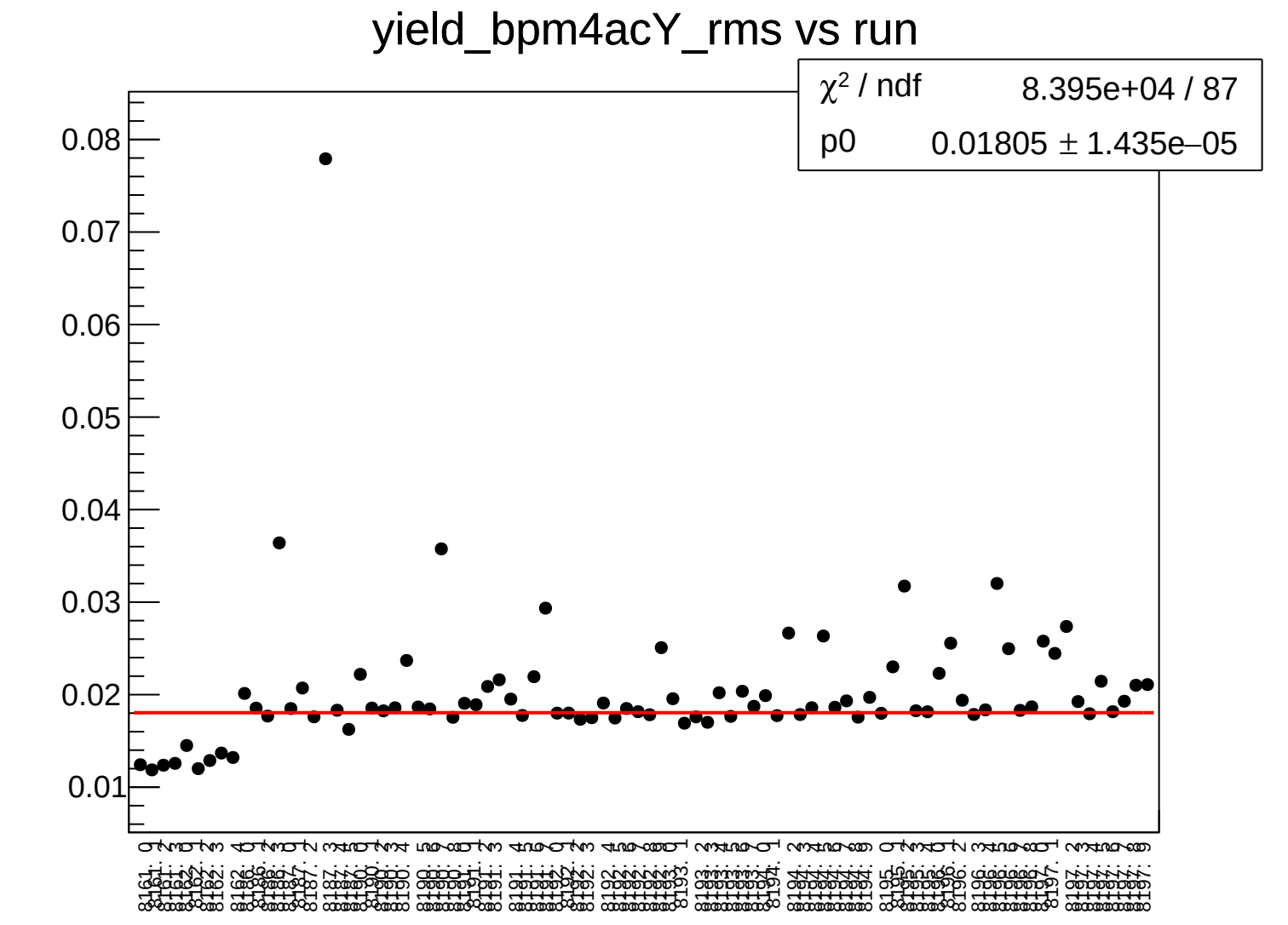

yield_bpm4acX_mean vs run
χ² / ndf 2.7e+06 / 87
p0 −1.174 ± 5.673e−05
−0.95
−1
−1.05
−1.1
−1.15
−1.2
−1.25
pull
Entries 88
Mean 338.7
Std Dev 0
600
500
400
300
200
100
0
−100

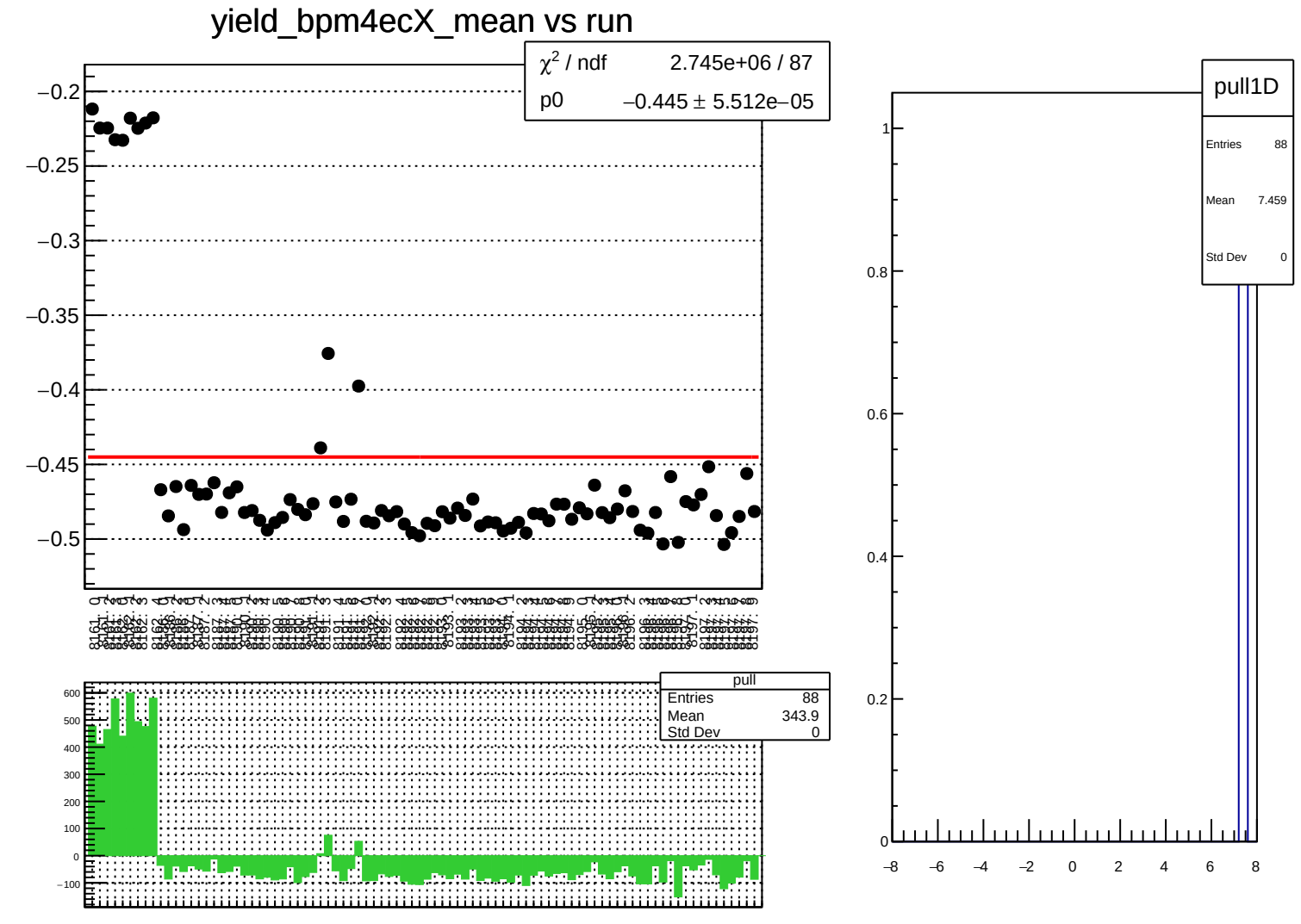

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

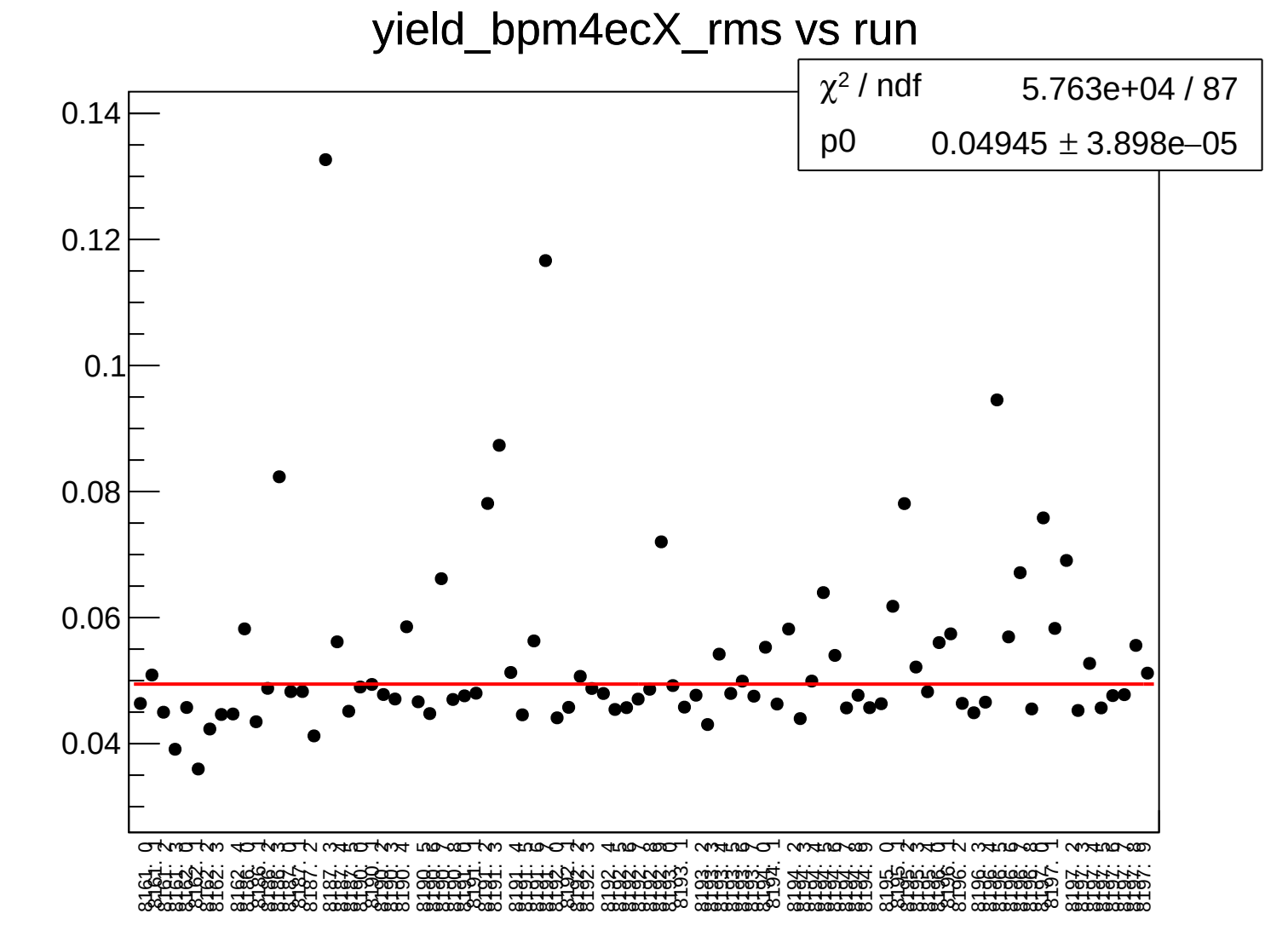

yield_bpm4acX_rms vs run
χ² / ndf 5.475e+04 / 87
p0 0.05094 ± 4.012e–05
0.14
0.12
0.1
0.08
0.06
0.04

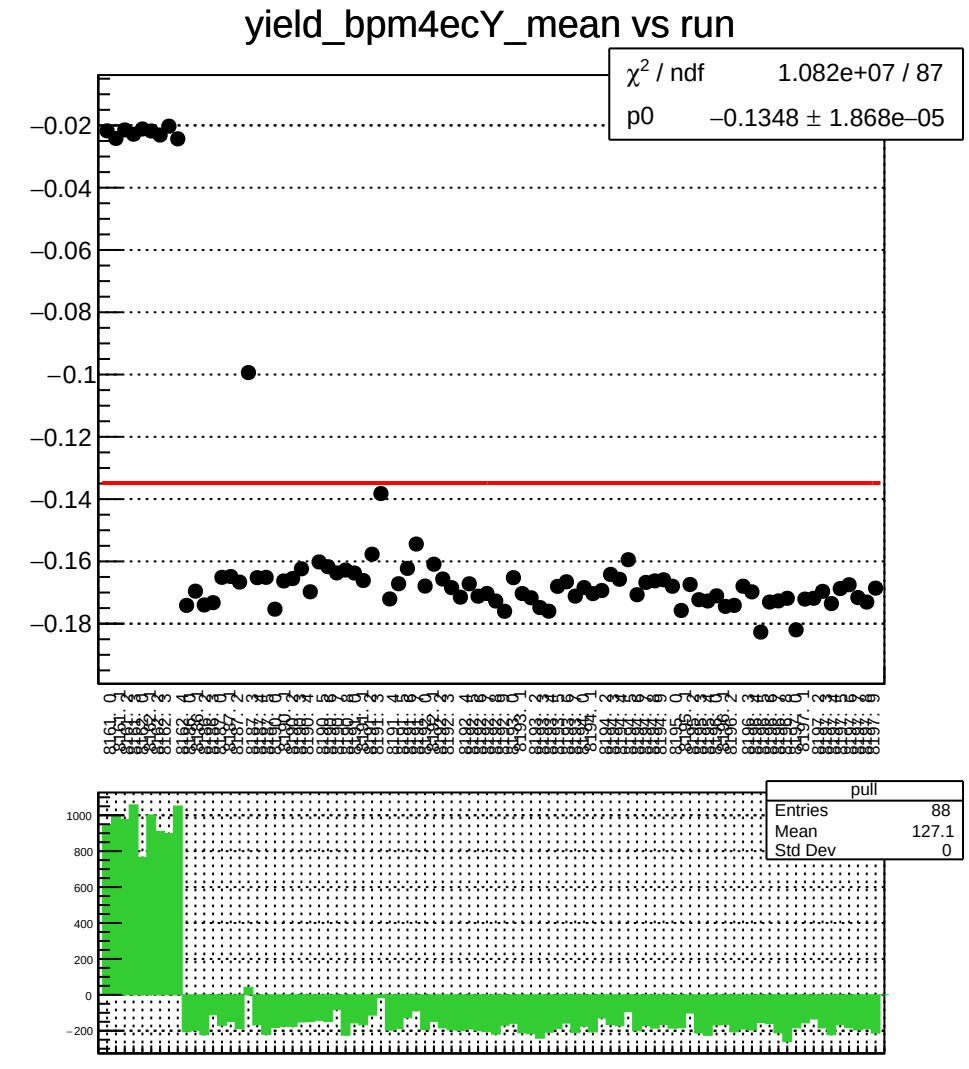

yield_bpm4acY_mean vs run
χ² / ndf 8.496e+06 / 87
p0 0.5389 ± 2.029e−05
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
pull
Entries 88
Mean 131.4
Std Dev 0
1000
800
600
400
200
0
−200

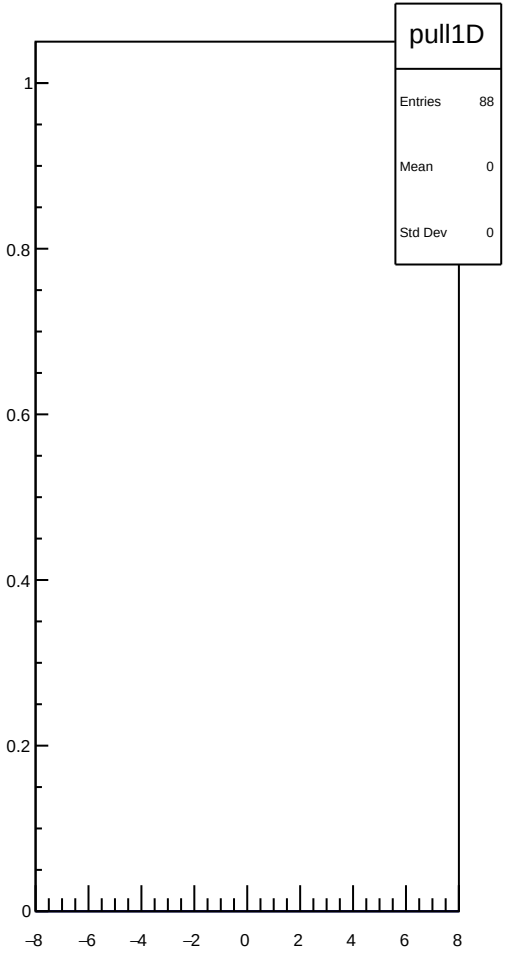

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

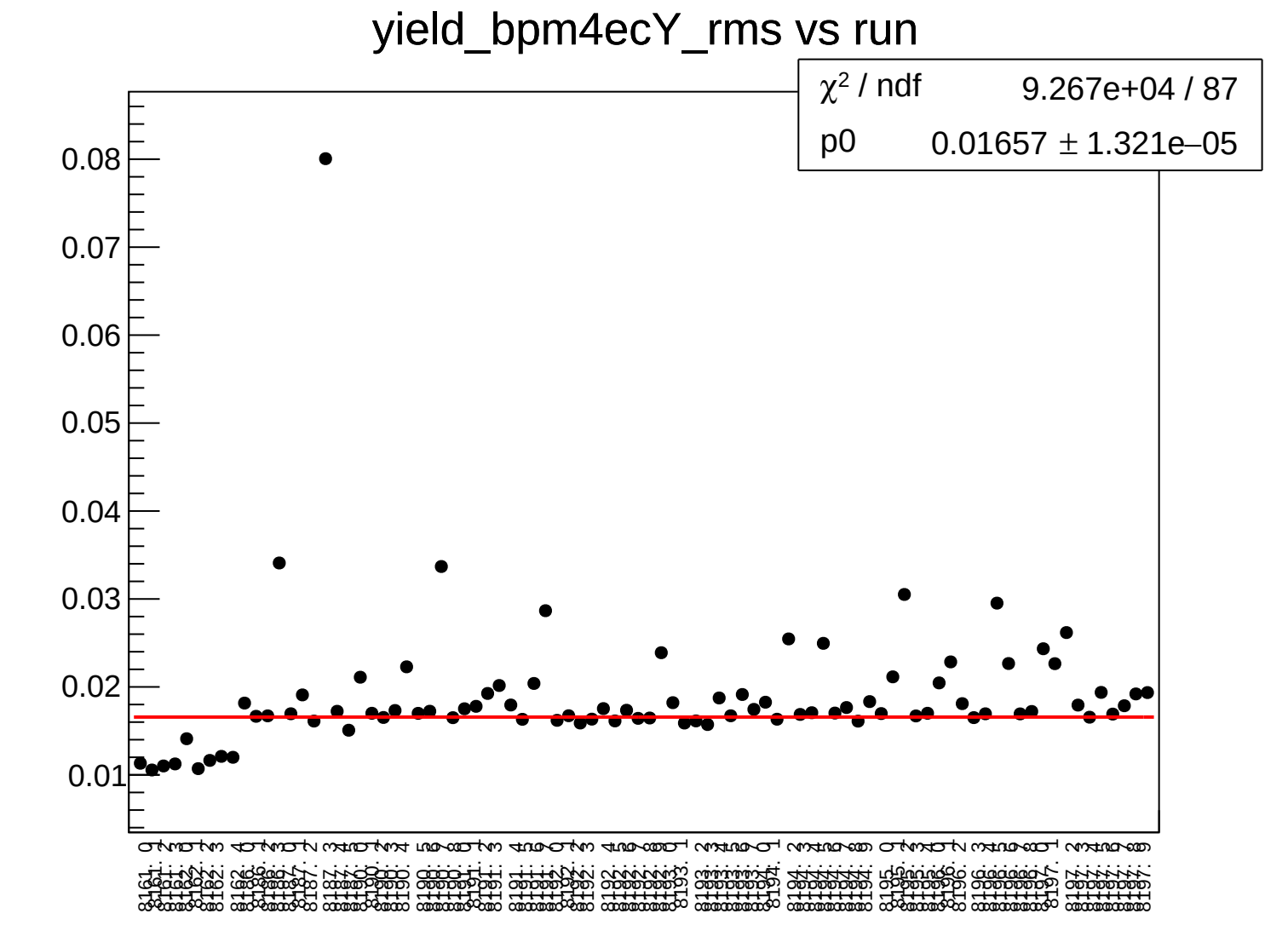

yield_bpm4acY_rms vs run
χ² / ndf 8.395e+04 / 87
p0 0.01805 ± 1.435e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

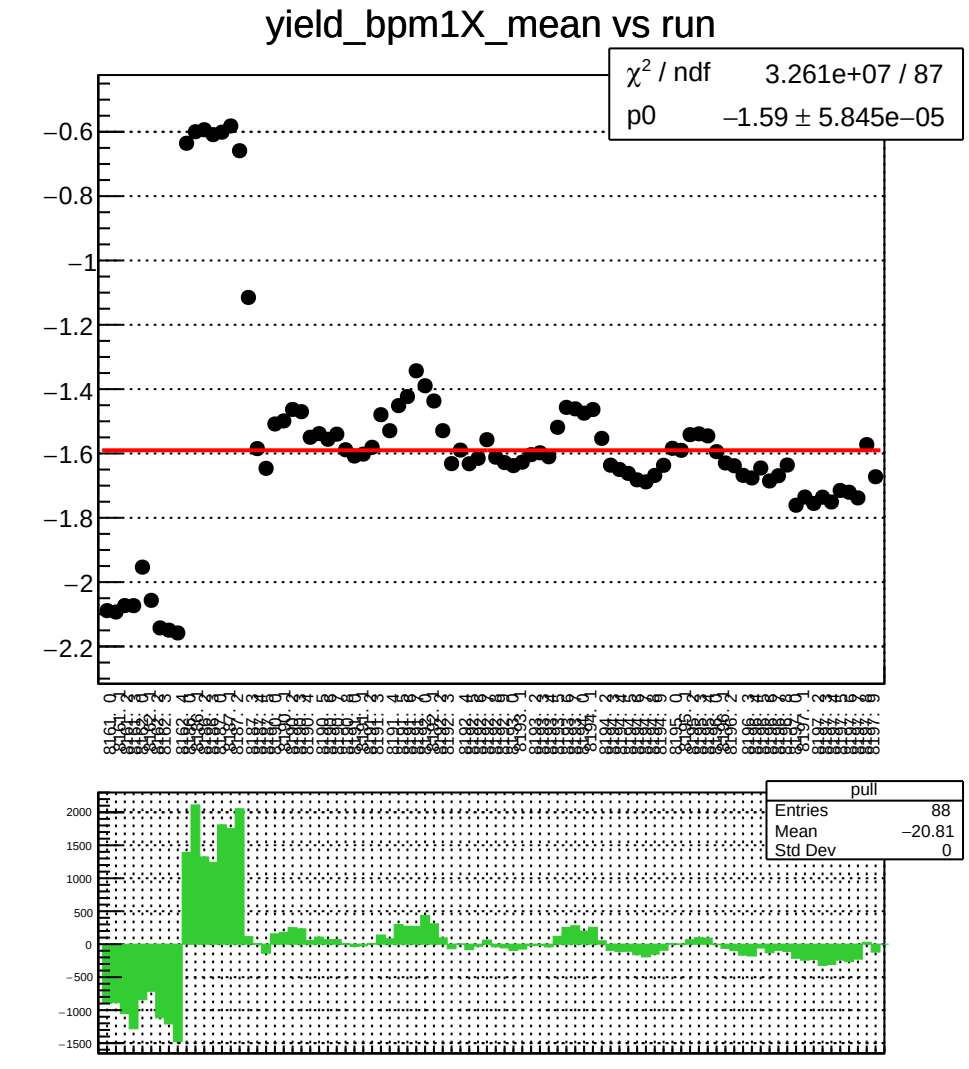

yield_bpm4ecX_mean vs run
χ² / ndf 2.745e+06 / 87
p0 −0.445 ± 5.512e−05
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 88
Mean 343.9
Std Dev 0
600
500
400
300
200
100
0
−100
pull1D
Entries 88
Mean 7.459
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

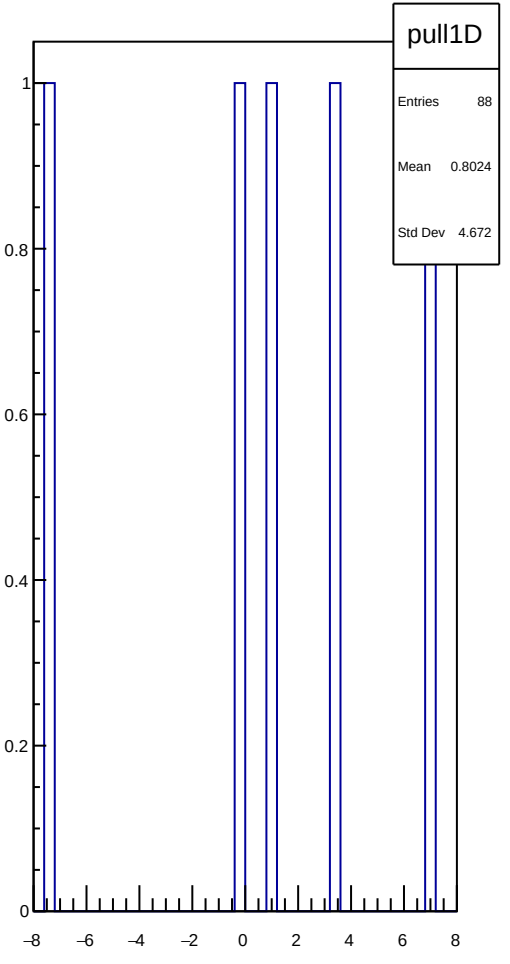

yield_bpm4ecX_rms vs run
χ² / ndf 5.763e+04 / 87
p0 0.04945 ± 3.898e–05
0.14
0.12
0.1
0.08
0.06
0.04

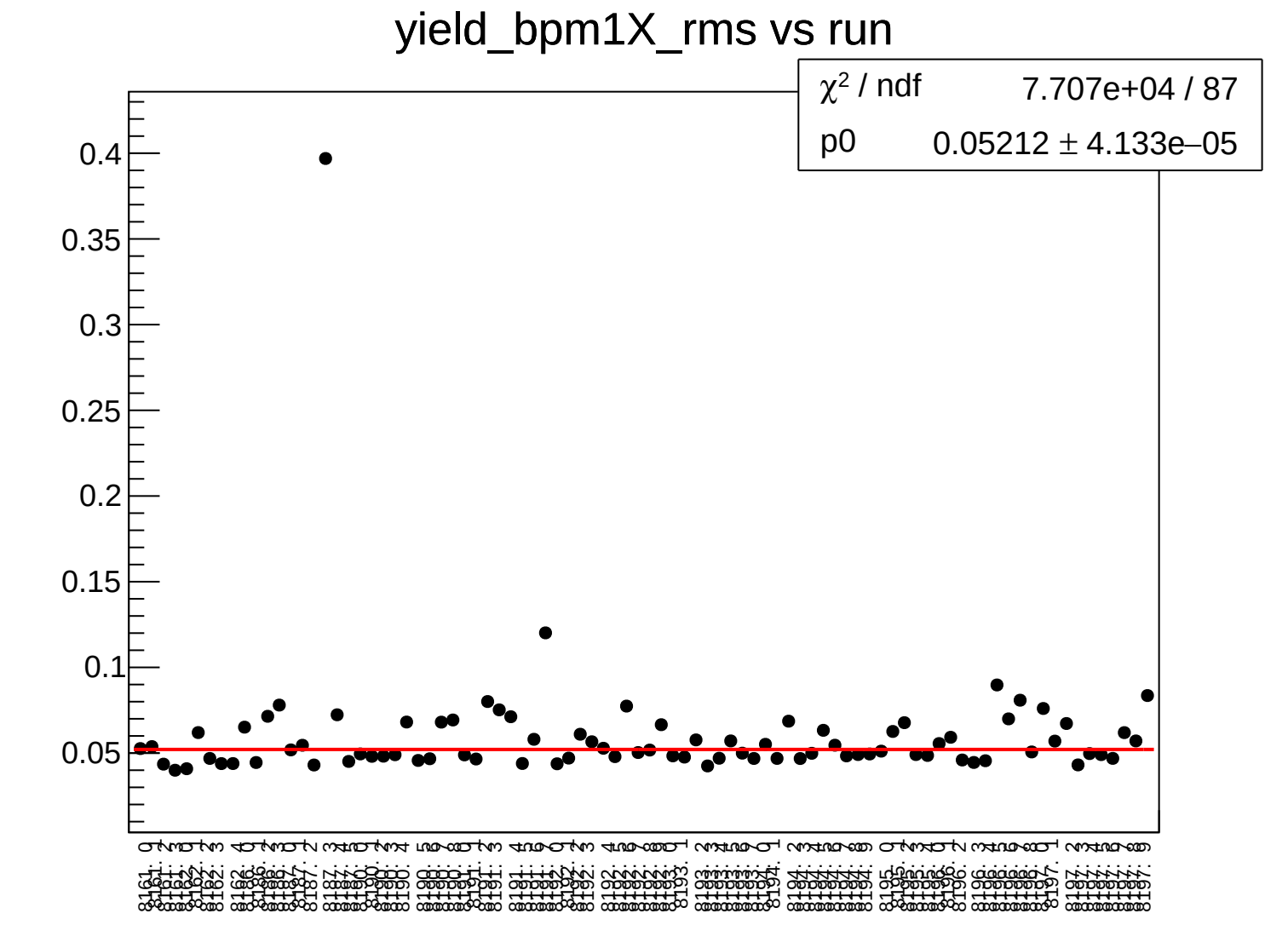

yield_bpm4ecY_mean vs run
χ² / ndf 1.082e+07 / 87
p0 −0.1348 ± 1.868e−05
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 88
Mean 127.1
Std Dev 0
1000
800
600
400
200
0
−200

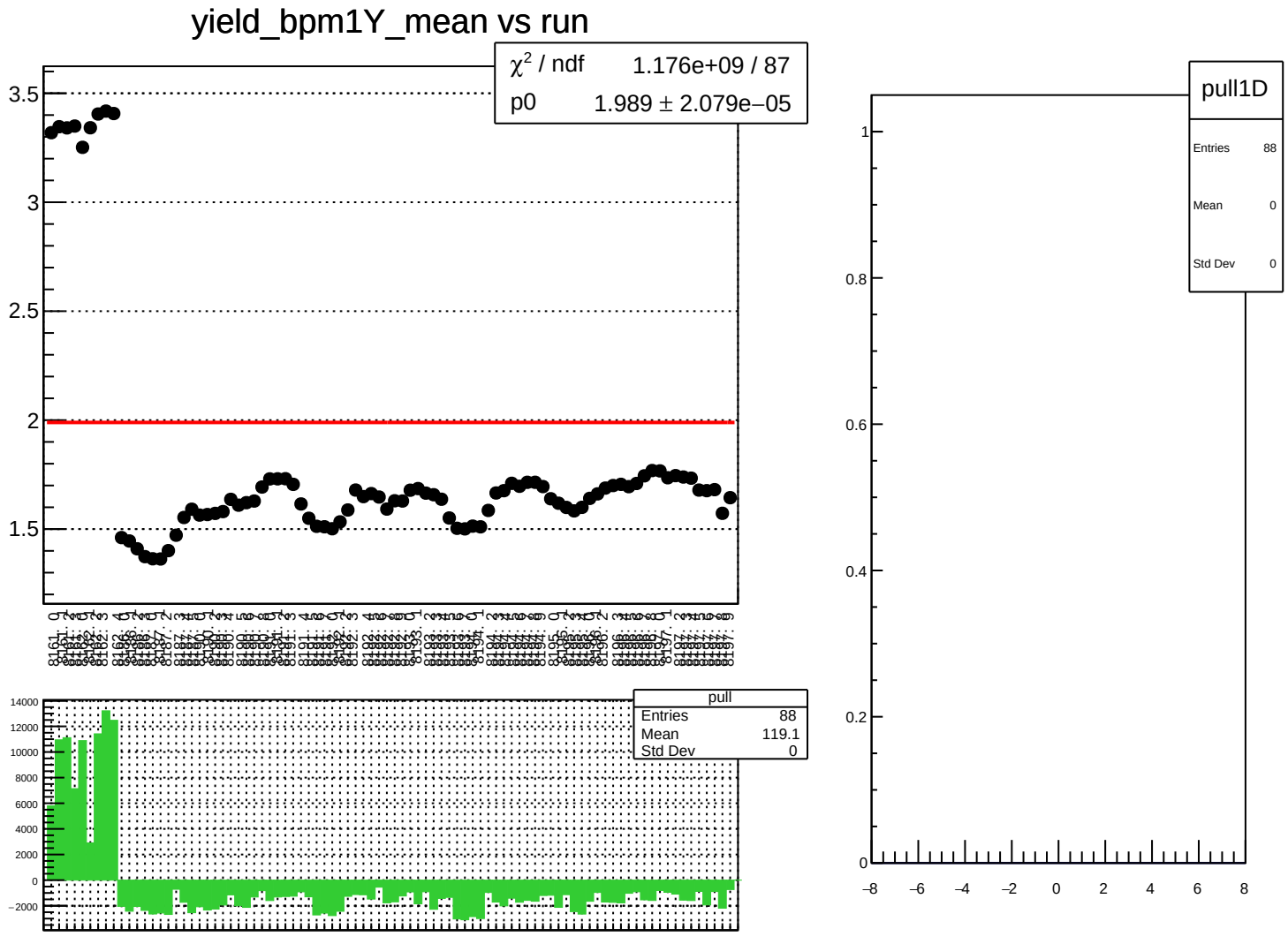

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

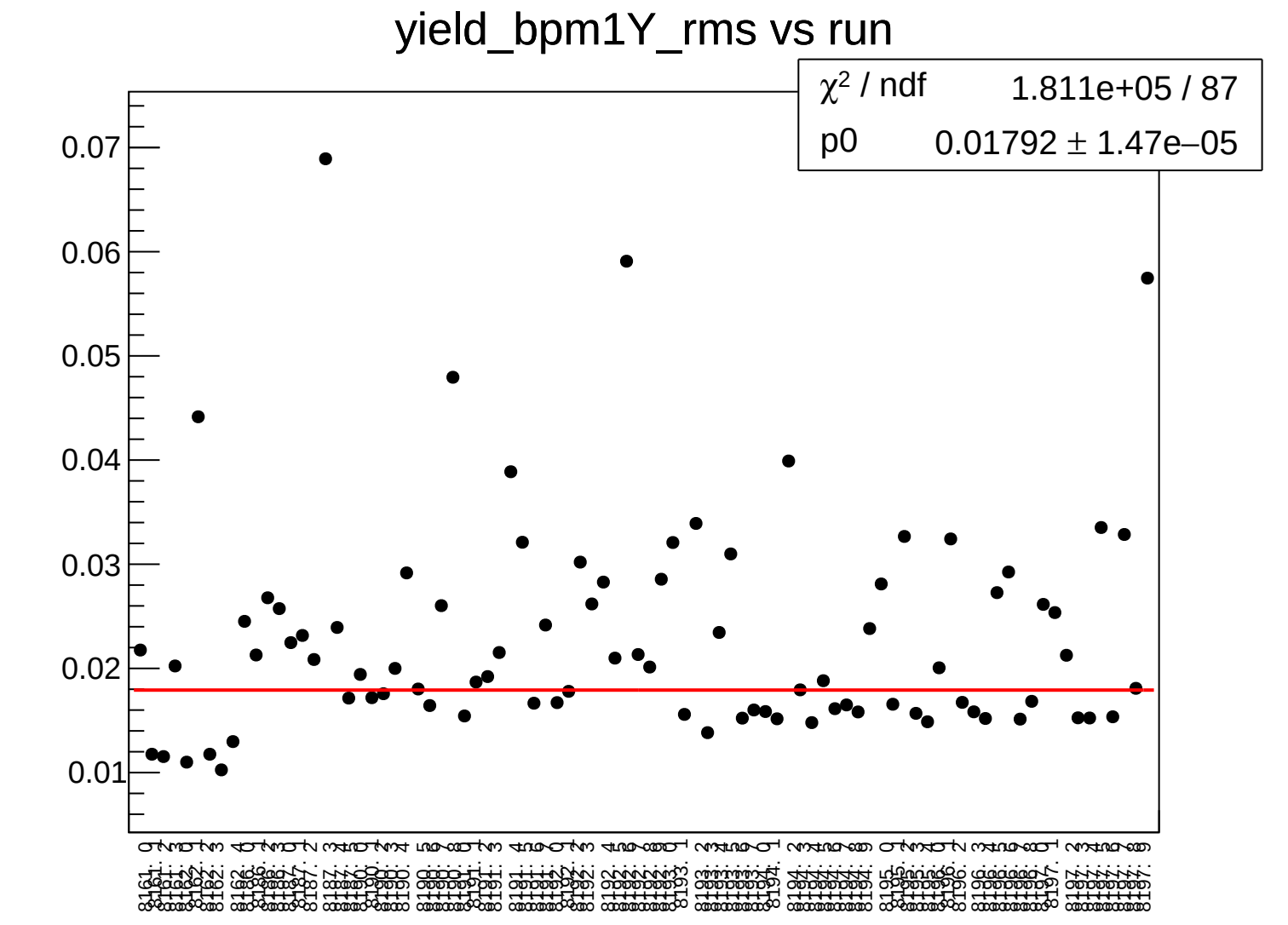

yield_bpm4ecY_rms vs run
χ² / ndf 9.267e+04 / 87
p0 0.01657 ± 1.321e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

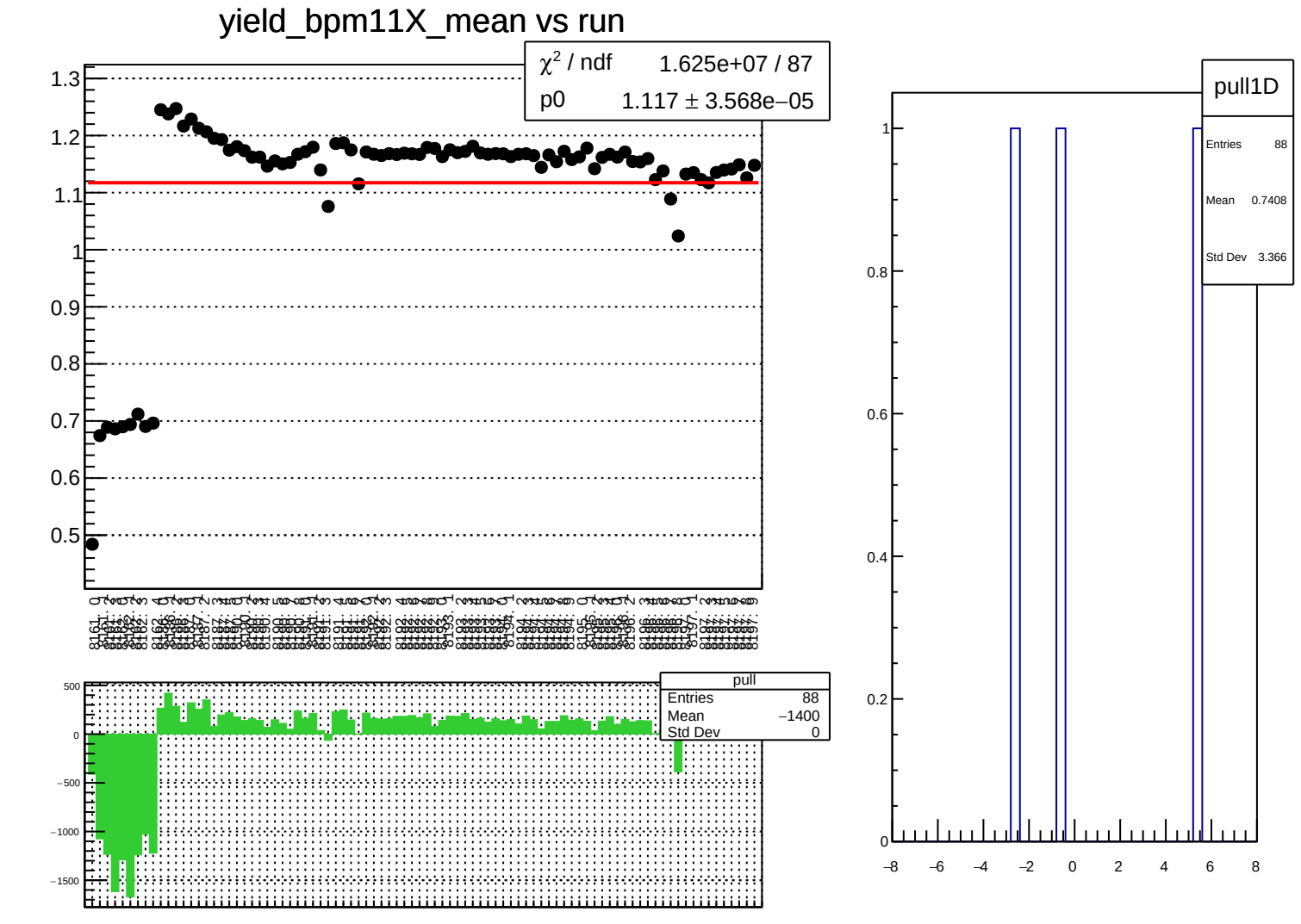

yield_bpm1X_mean vs run
χ² / ndf 3.261e+07 / 87
p0 −1.59 ± 5.845e−05
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
pull
Entries 88
Mean −20.81
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

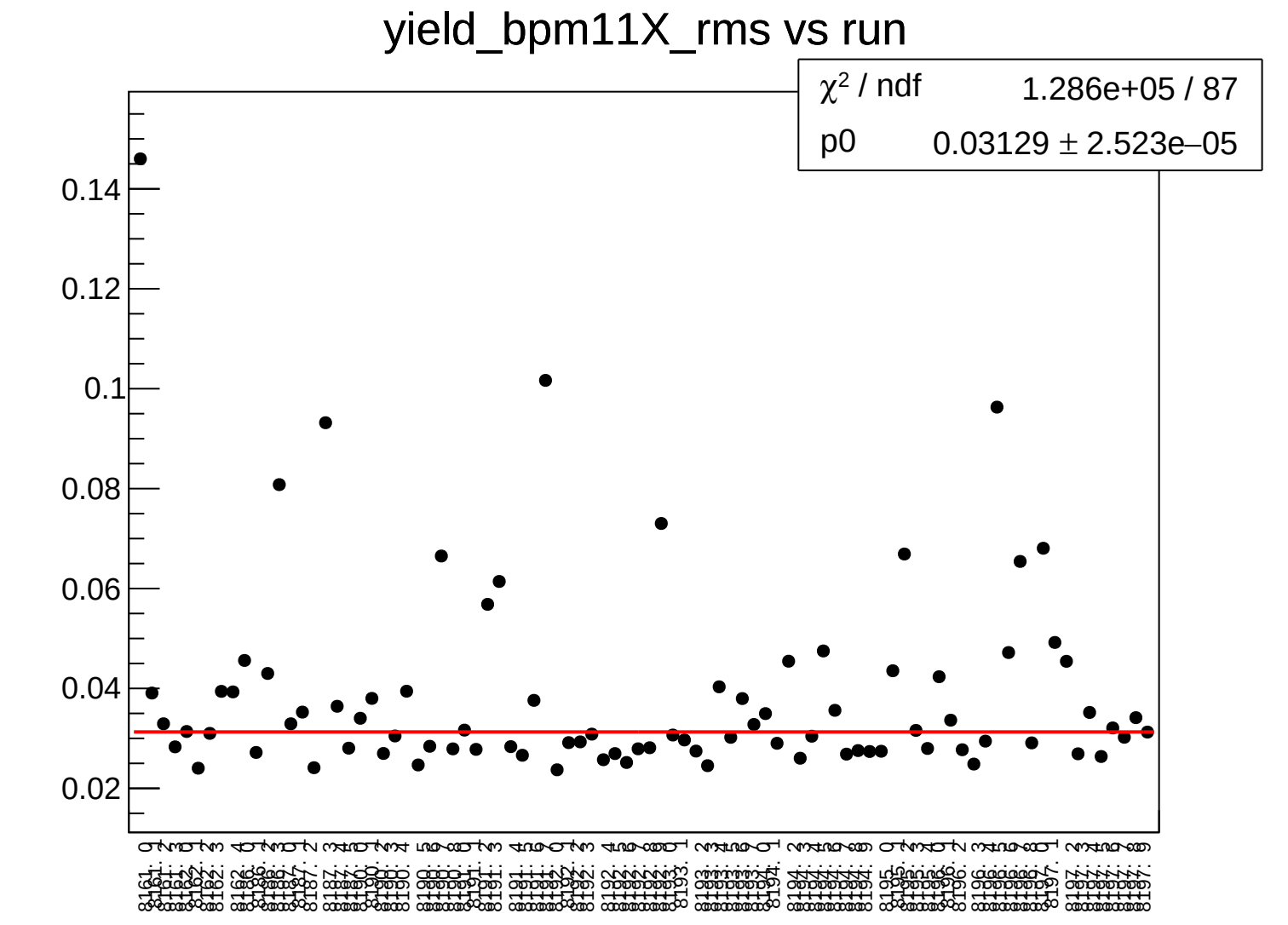

pull1D
Entries 88
Mean 0.8024
Std Dev 4.672
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

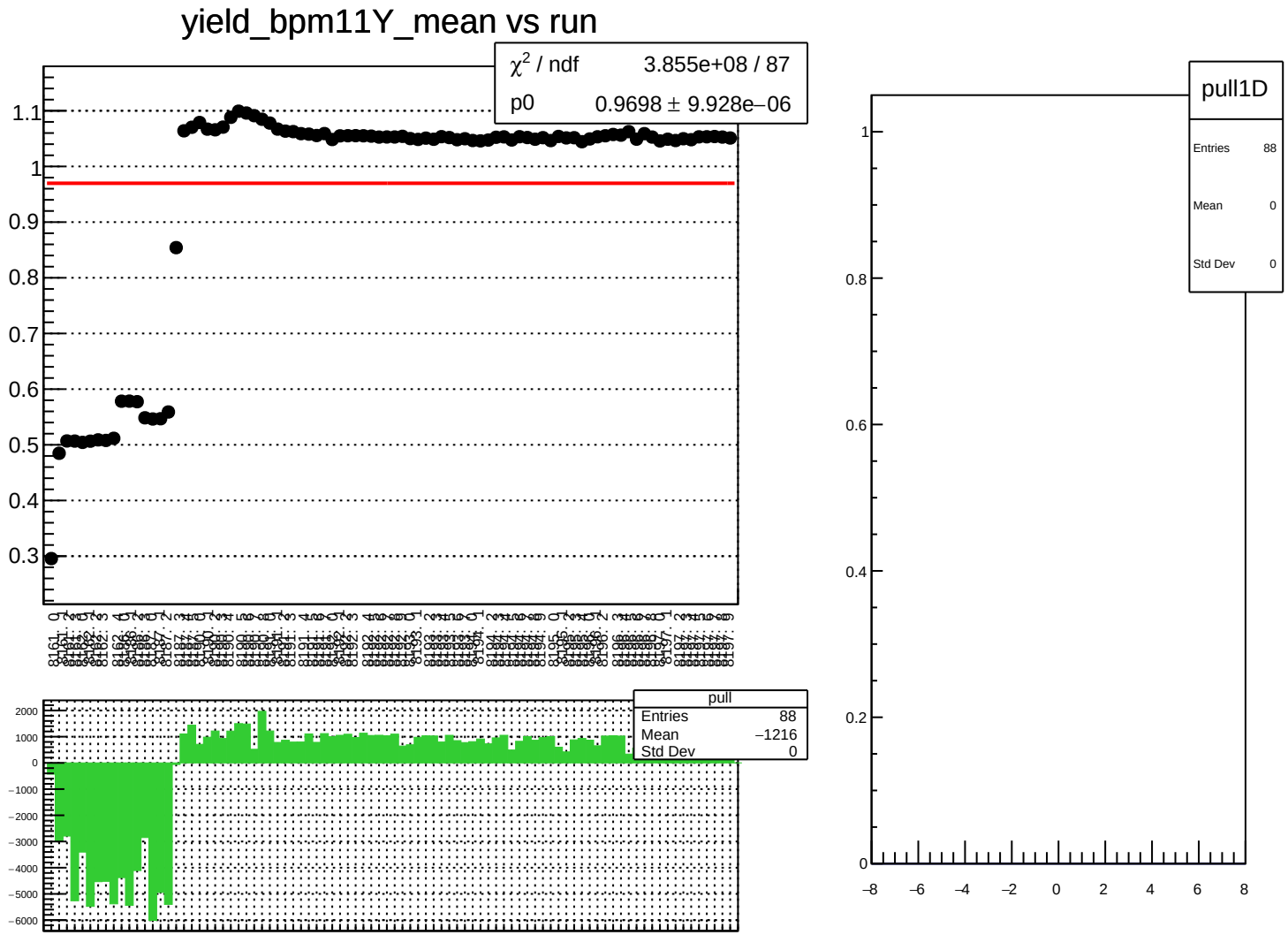

yield_bpm1X_rms vs run
χ² / ndf 7.707e+04 / 87
p0 0.05212 ± 4.133e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

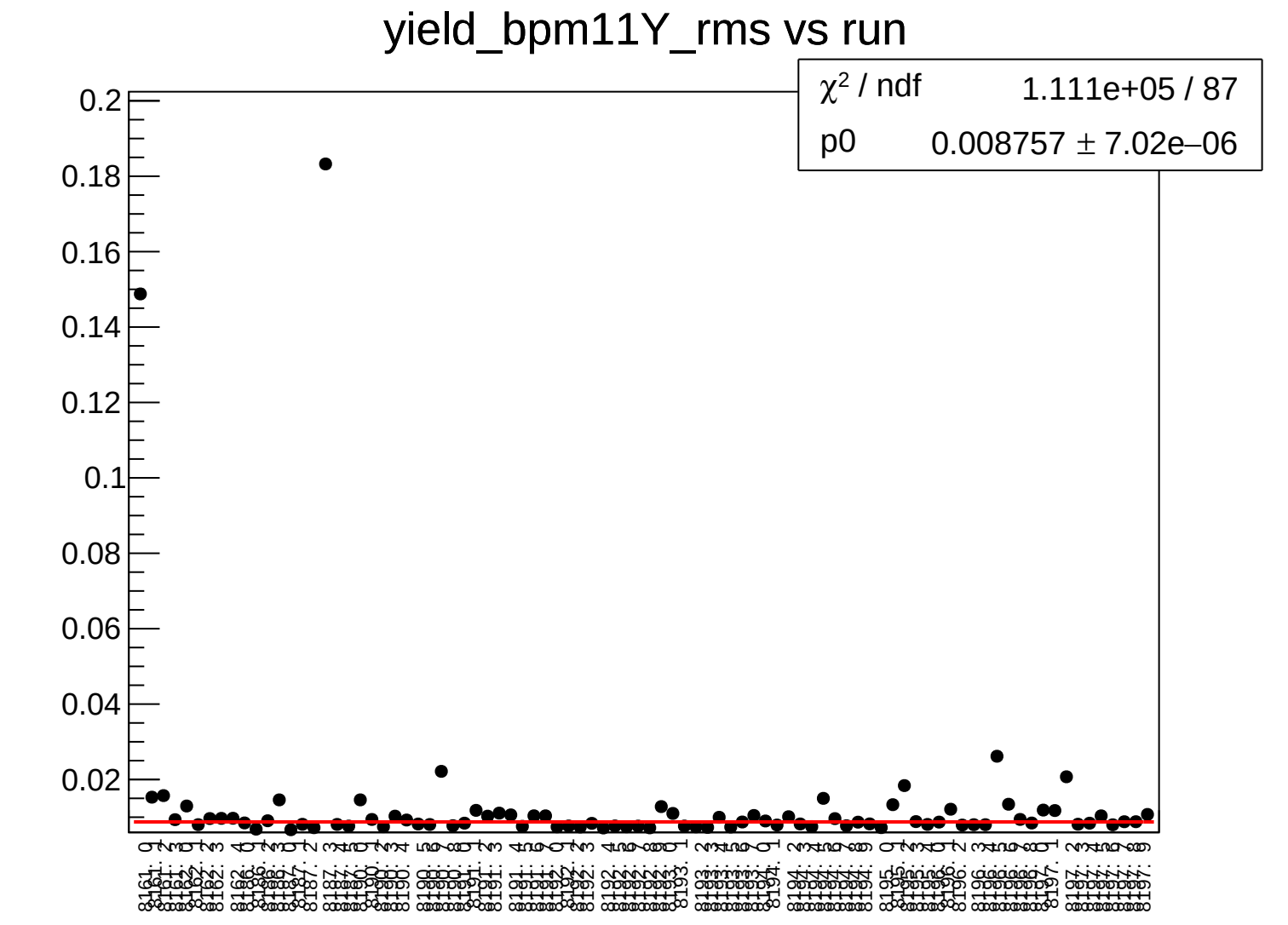

yield_bpm1Y_mean vs run
χ² / ndf 1.176e+09 / 87
p0 1.989 ± 2.079e−05
3.5
3
2.5
2
1.5
pull
Entries 88
Mean 119.1
Std Dev 0
14000
12000
10000
8000
6000
4000
2000
0
−2000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

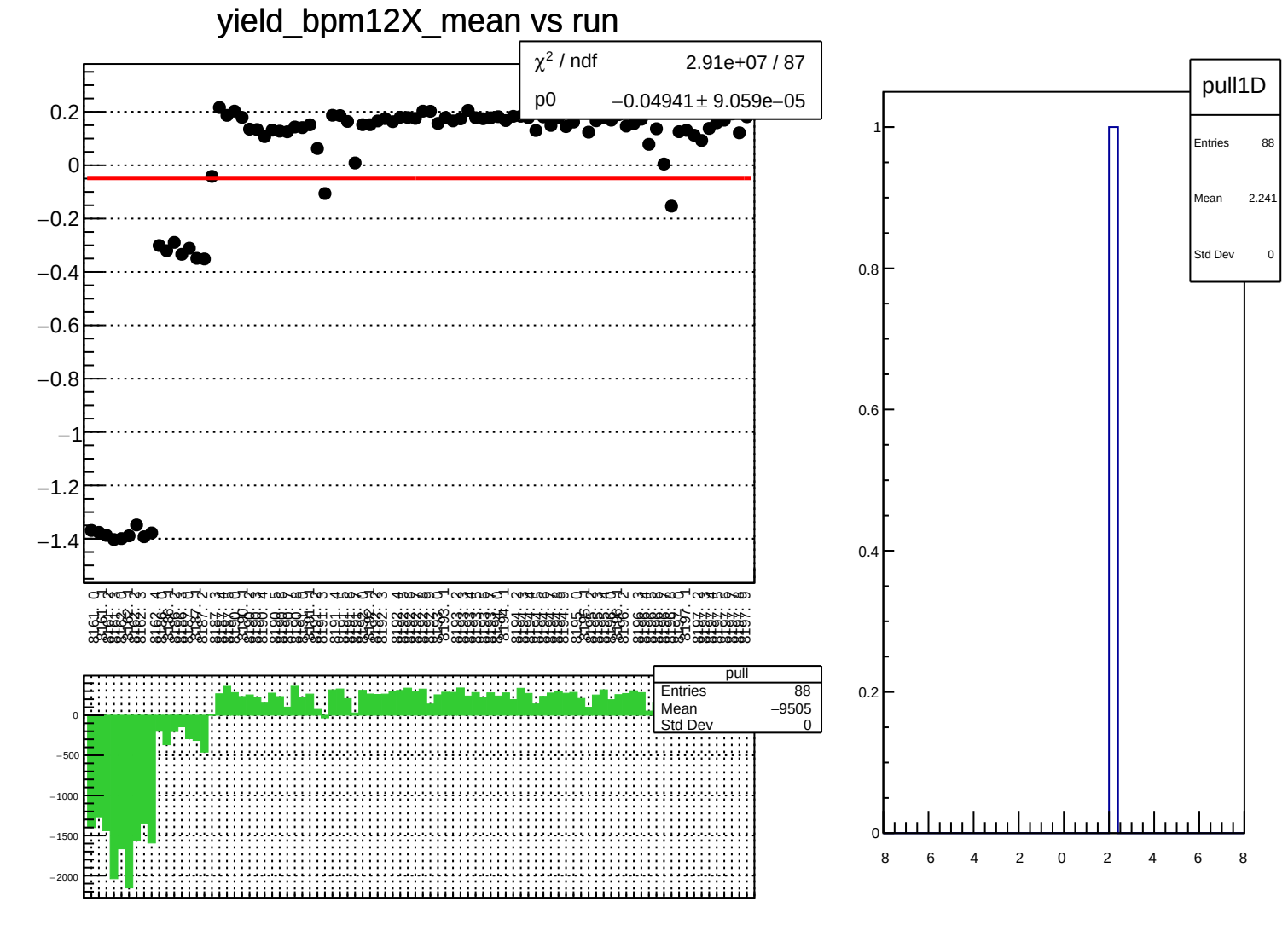

yield_bpm1Y_rms vs run
χ² / ndf 1.811e+05 / 87
p0 0.01792 ± 1.47e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

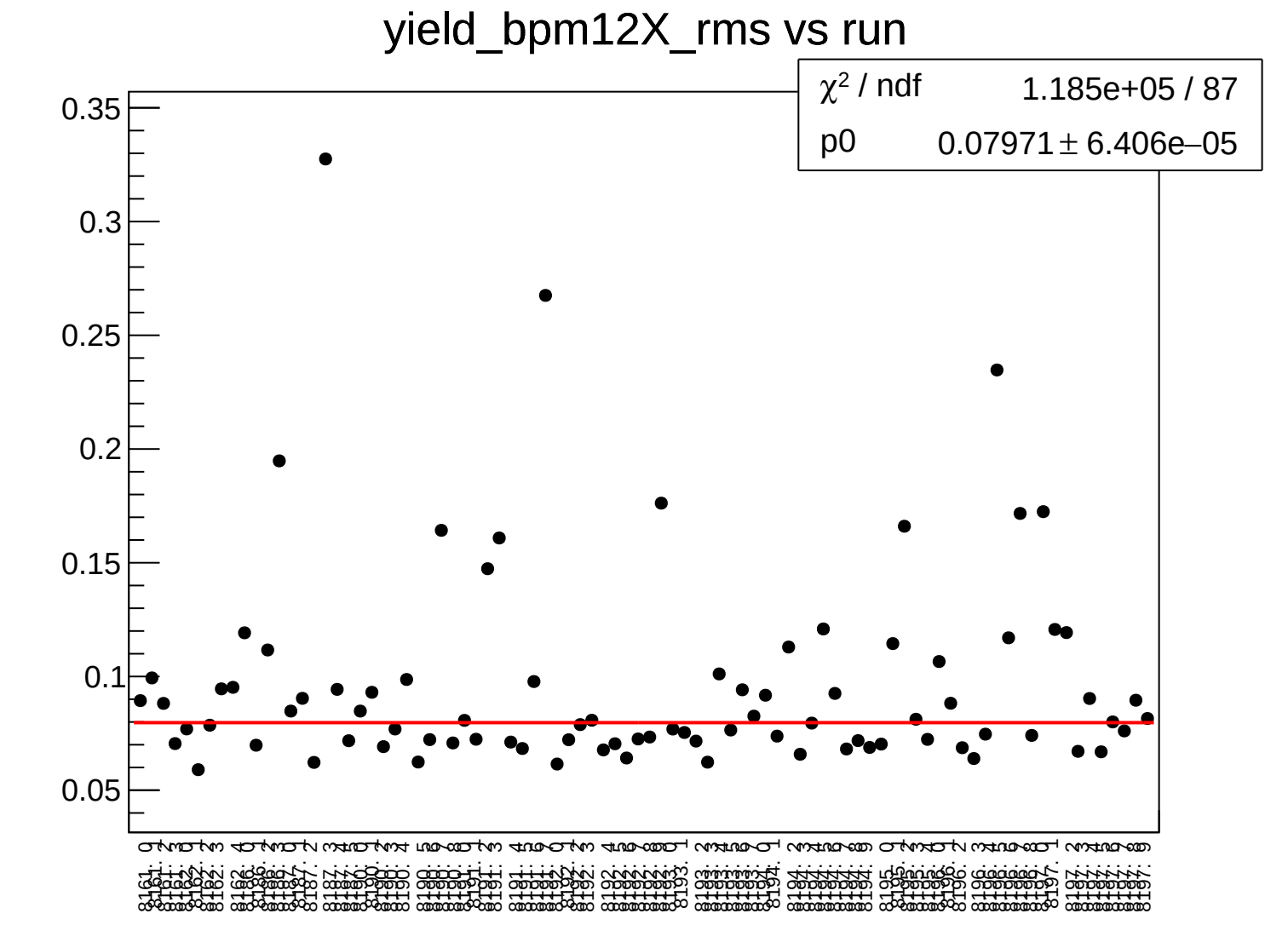

yield_bpm11X_mean vs run
χ² / ndf 1.625e+07 / 87
p0 1.117 ± 3.568e−05
pull
Entries 88
Mean −1400
Std Dev 0
pull1D
Entries 88
Mean 0.7408
Std Dev 3.366

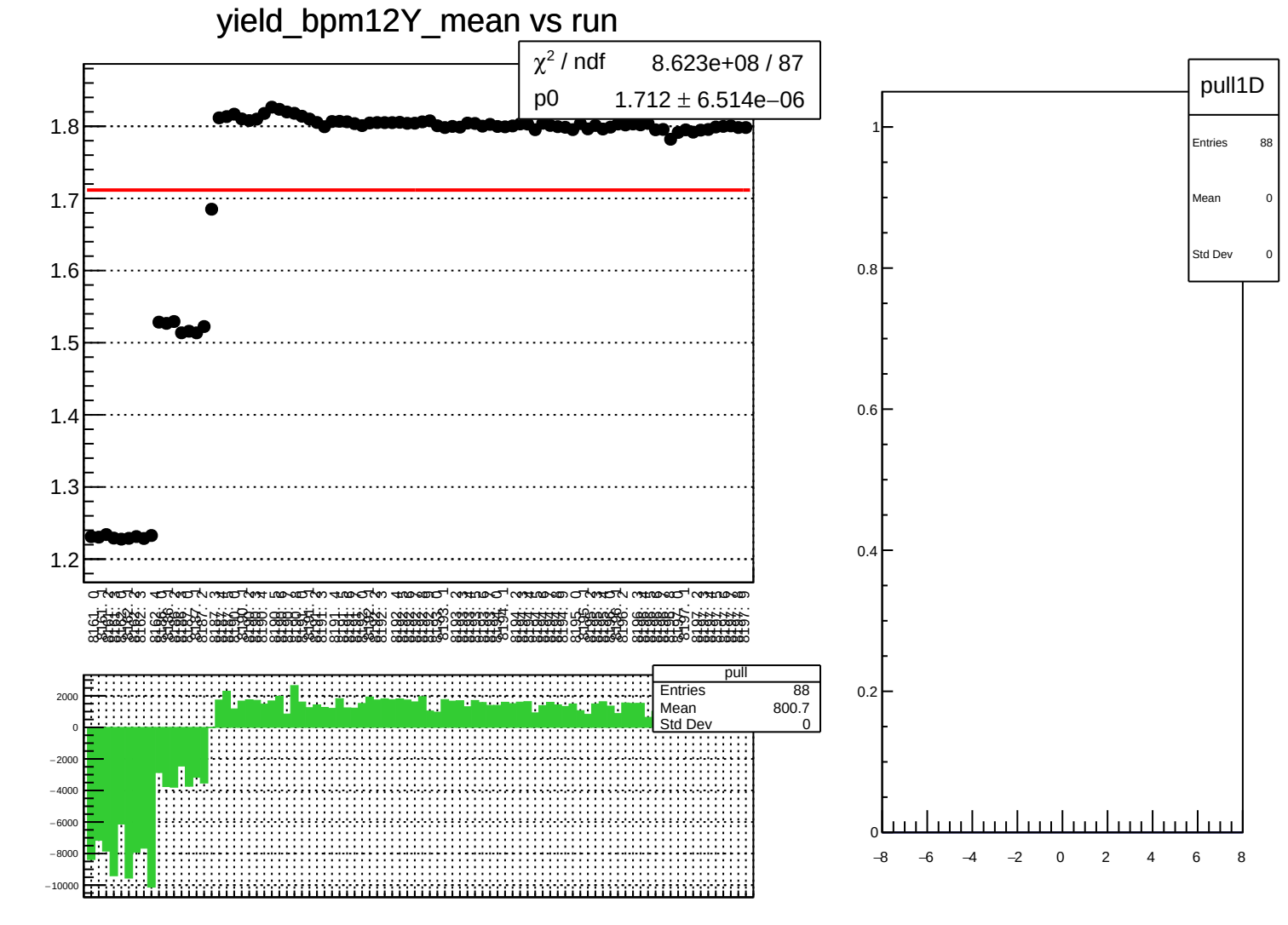

yield_bpm11X_rms vs run
χ² / ndf 1.286e+05 / 87
p0 0.03129 ± 2.523e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

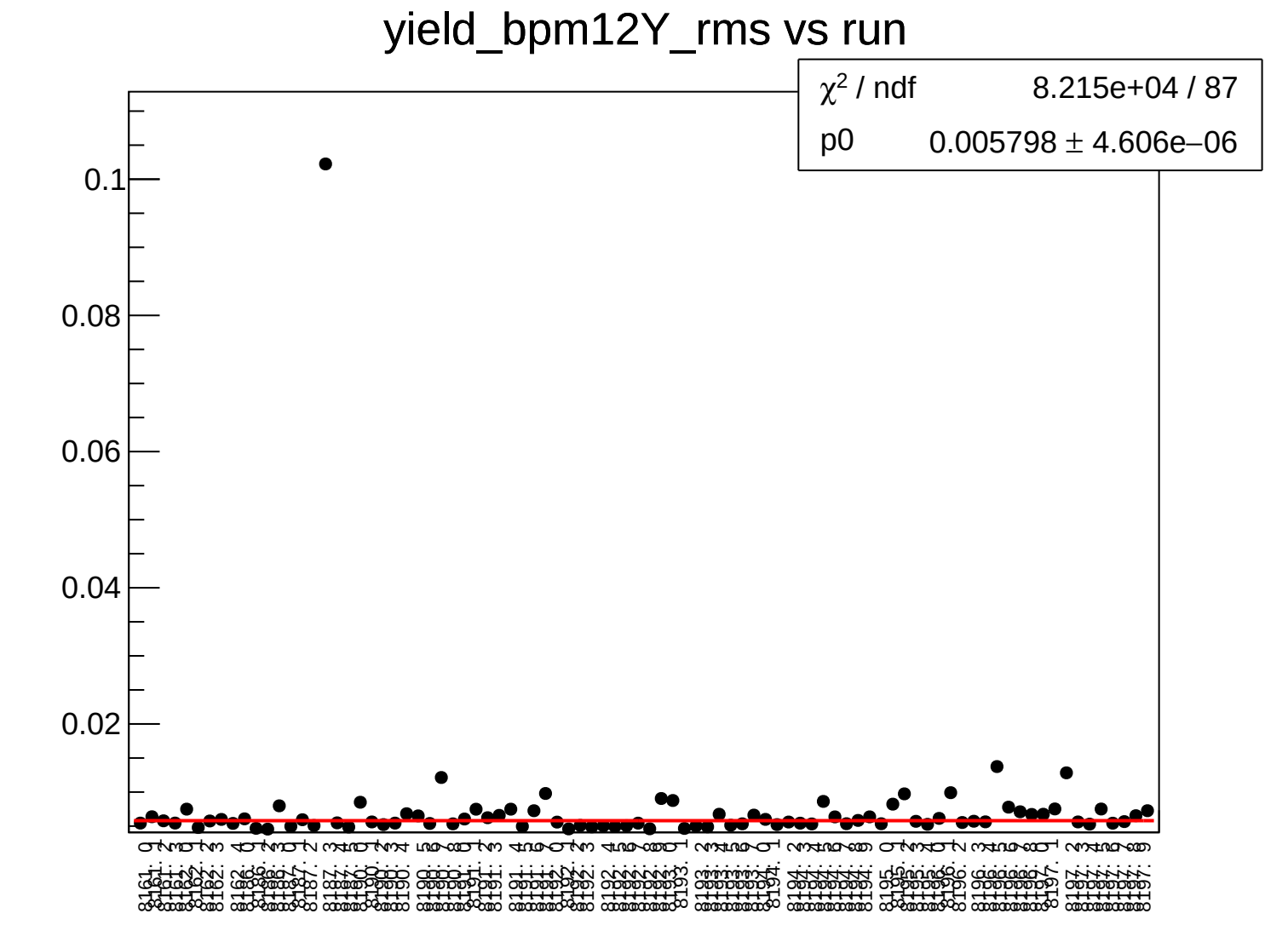

yield_bpm11Y_mean vs run
χ² / ndf 3.855e+08 / 87
p0 0.9698 ± 9.928e−06
pull
Entries 88
Mean −1216
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

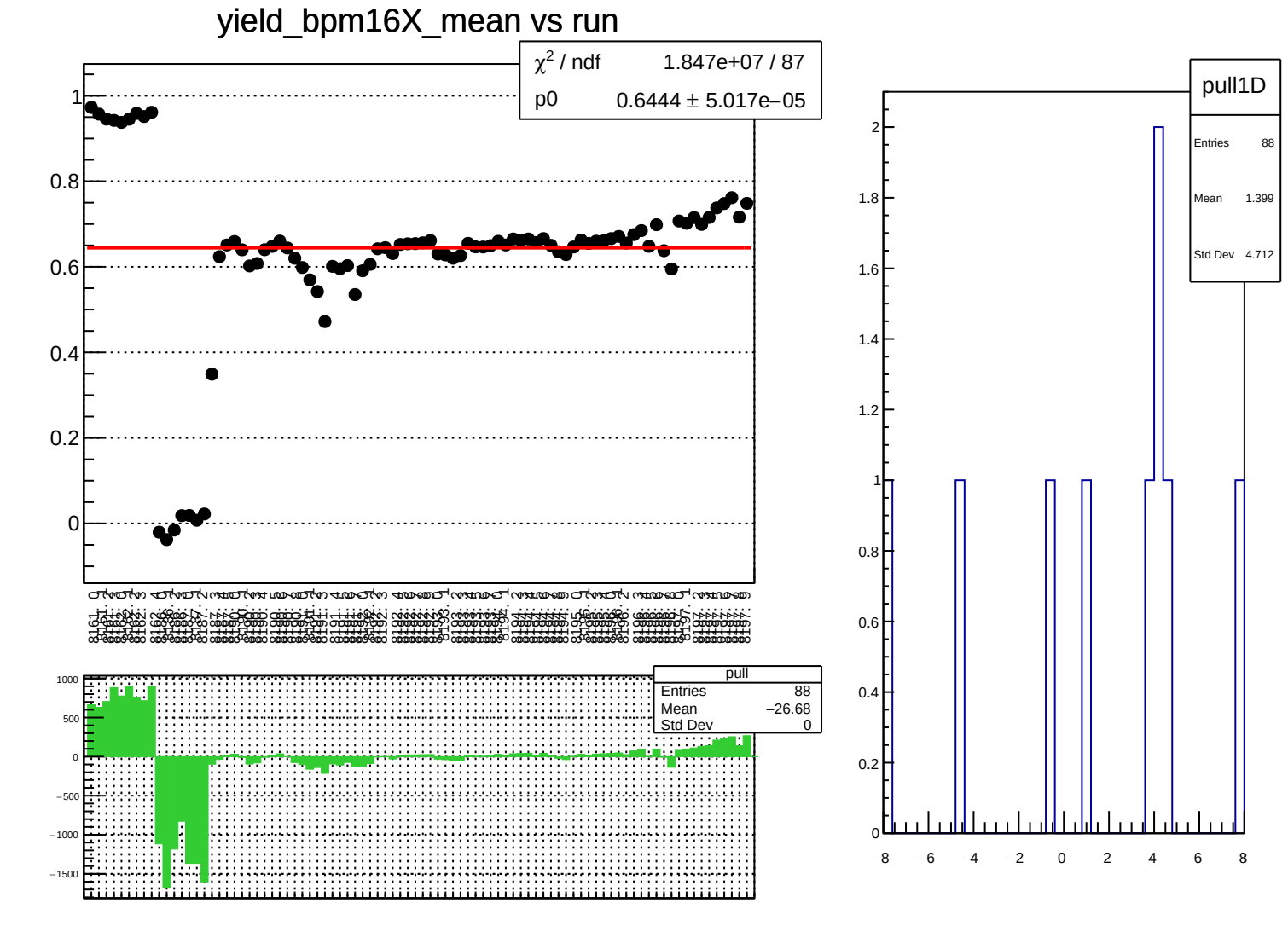

yield_bpm11Y_rms vs run
χ² / ndf 1.111e+05 / 87
p0 0.008757 ± 7.02e–06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

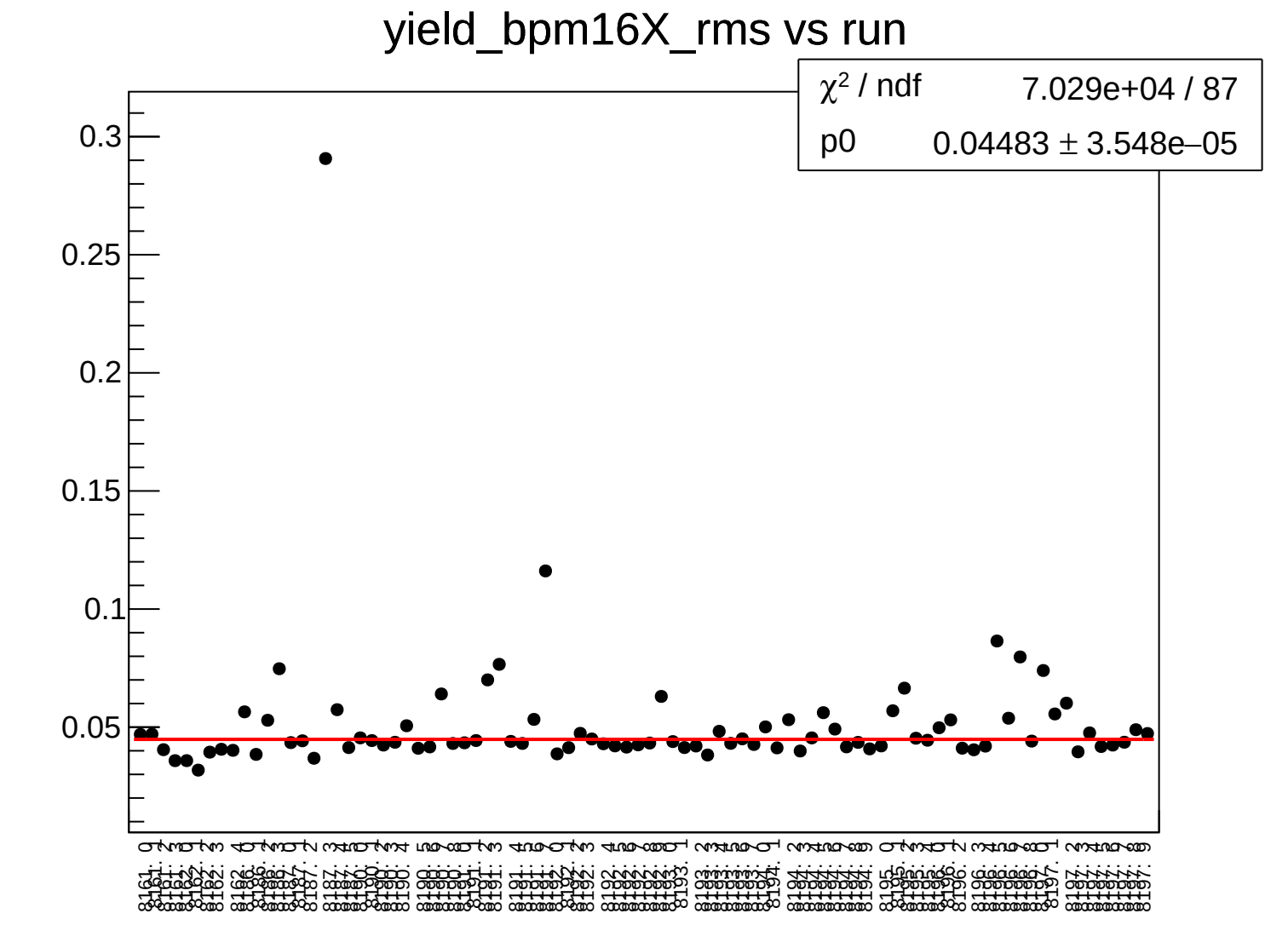

yield_bpm12X_mean vs run
χ² / ndf 2.91e+07 / 87
p0 −0.04941 ± 9.059e−05
pull
Entries 88
Mean −9505
Std Dev 0
pull1D
Entries 88
Mean 2.241
Std Dev 0

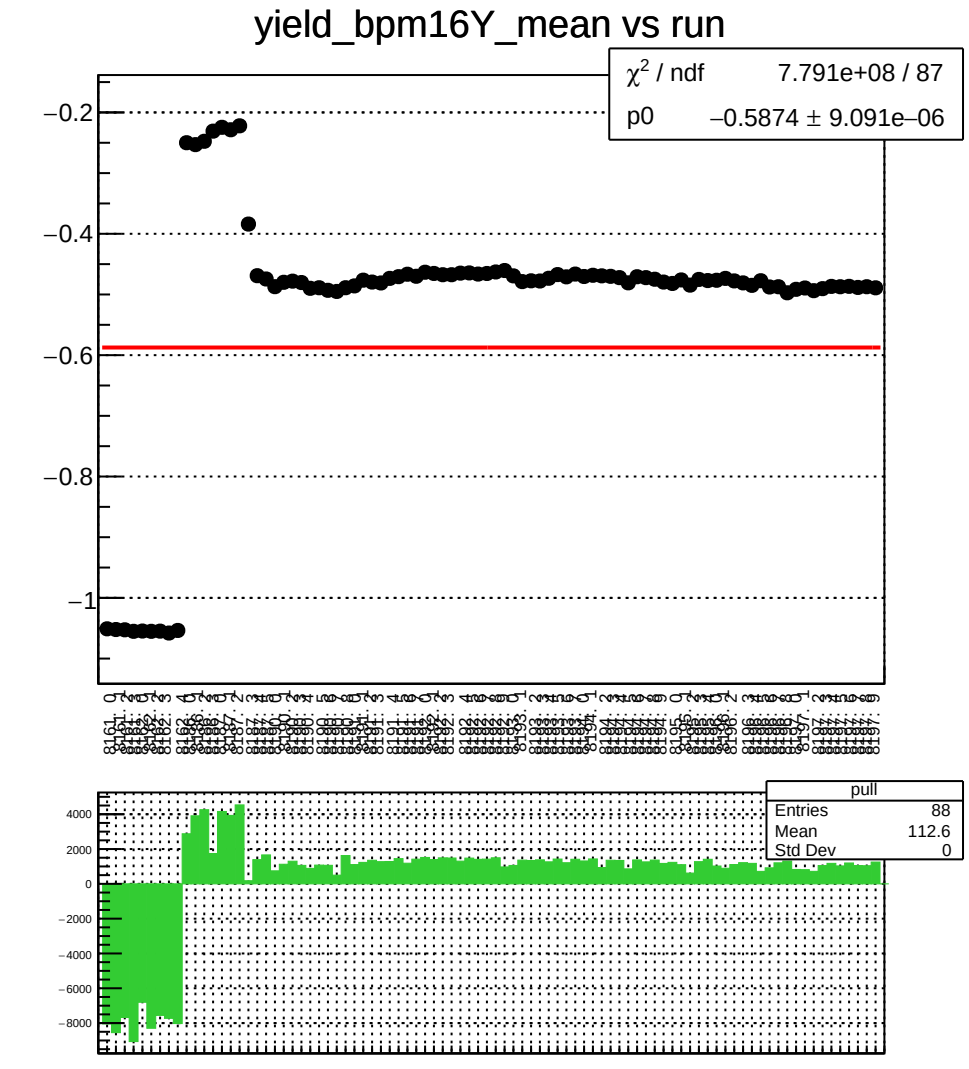

yield_bpm12X_rms vs run
χ² / ndf 1.185e+05 / 87
p0 0.07971 ± 6.406e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

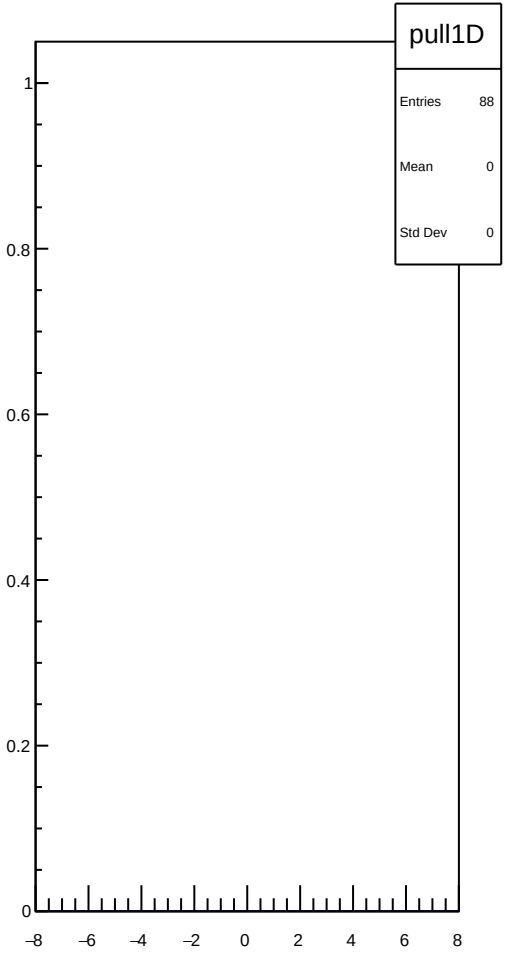

yield_bpm12Y_mean vs run
χ² / ndf 8.623e+08 / 87
p0 1.712 ± 6.514e−06
pull
Entries 88
Mean 800.7
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

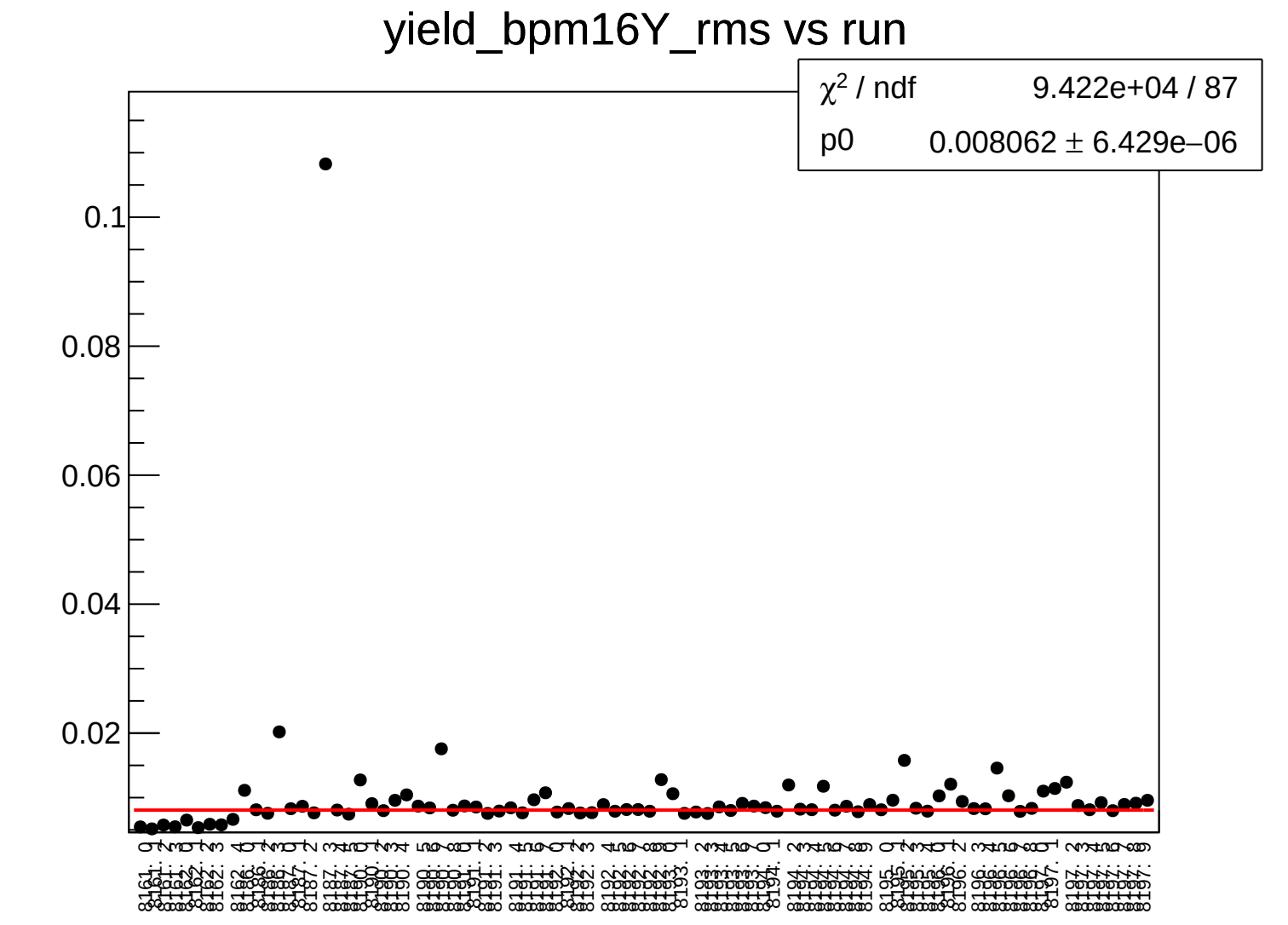

yield_bpm12Y_rms vs run
χ² / ndf 8.215e+04 / 87
p0 0.005798 ± 4.606e−06
0.1
0.08
0.06
0.04
0.02

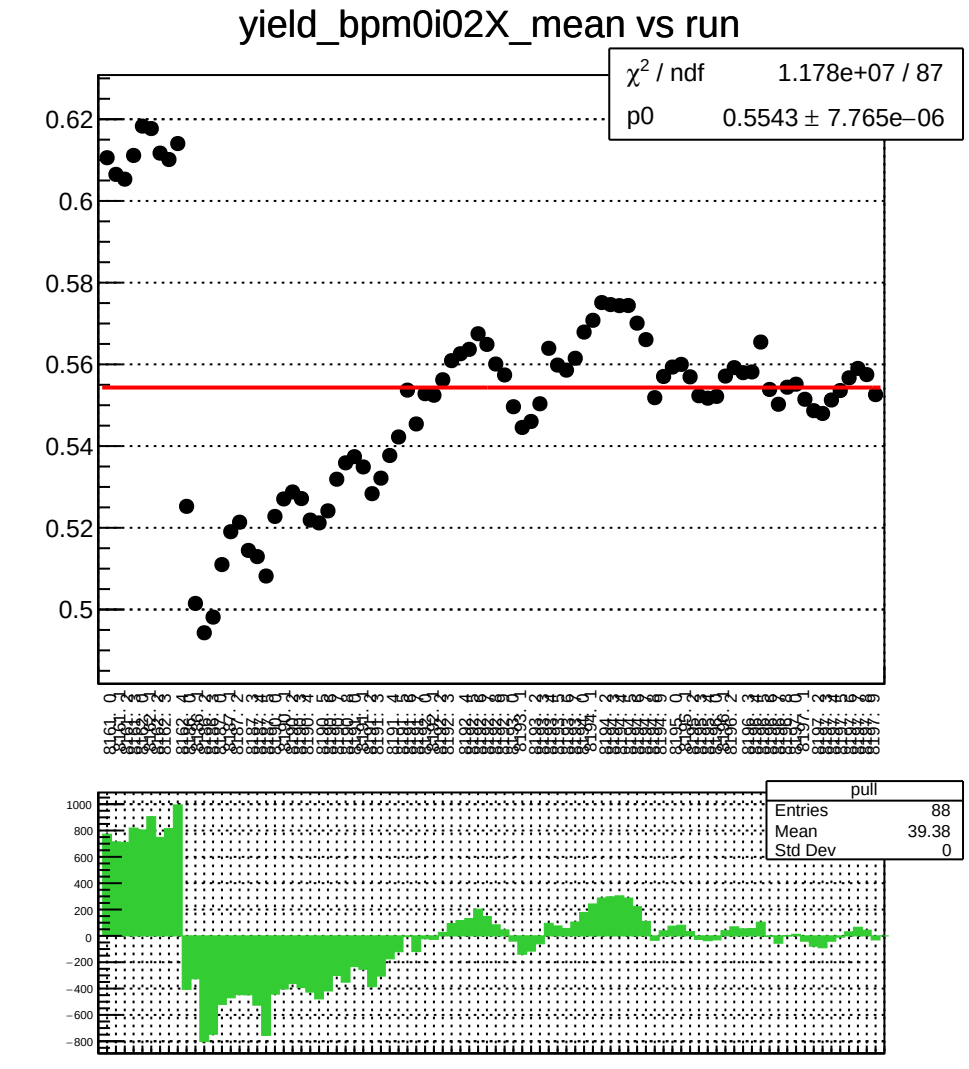

yield_bpm16X_mean vs run
χ² / ndf 1.847e+07 / 87
p0 0.6444 ± 5.017e−05
pull
Entries 88
Mean −26.68
Std Dev 0
pull1D
Entries 88
Mean 1.399
Std Dev 4.712

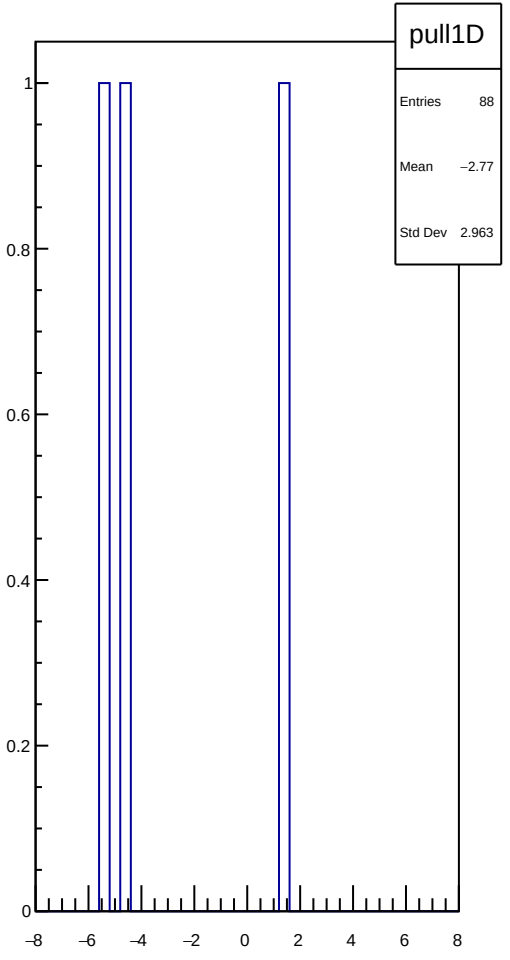

yield_bpm16X_rms vs run
χ² / ndf 7.029e+04 / 87
p0 0.04483 ± 3.548e–05
0.3
0.25
0.2
0.15
0.1
0.05

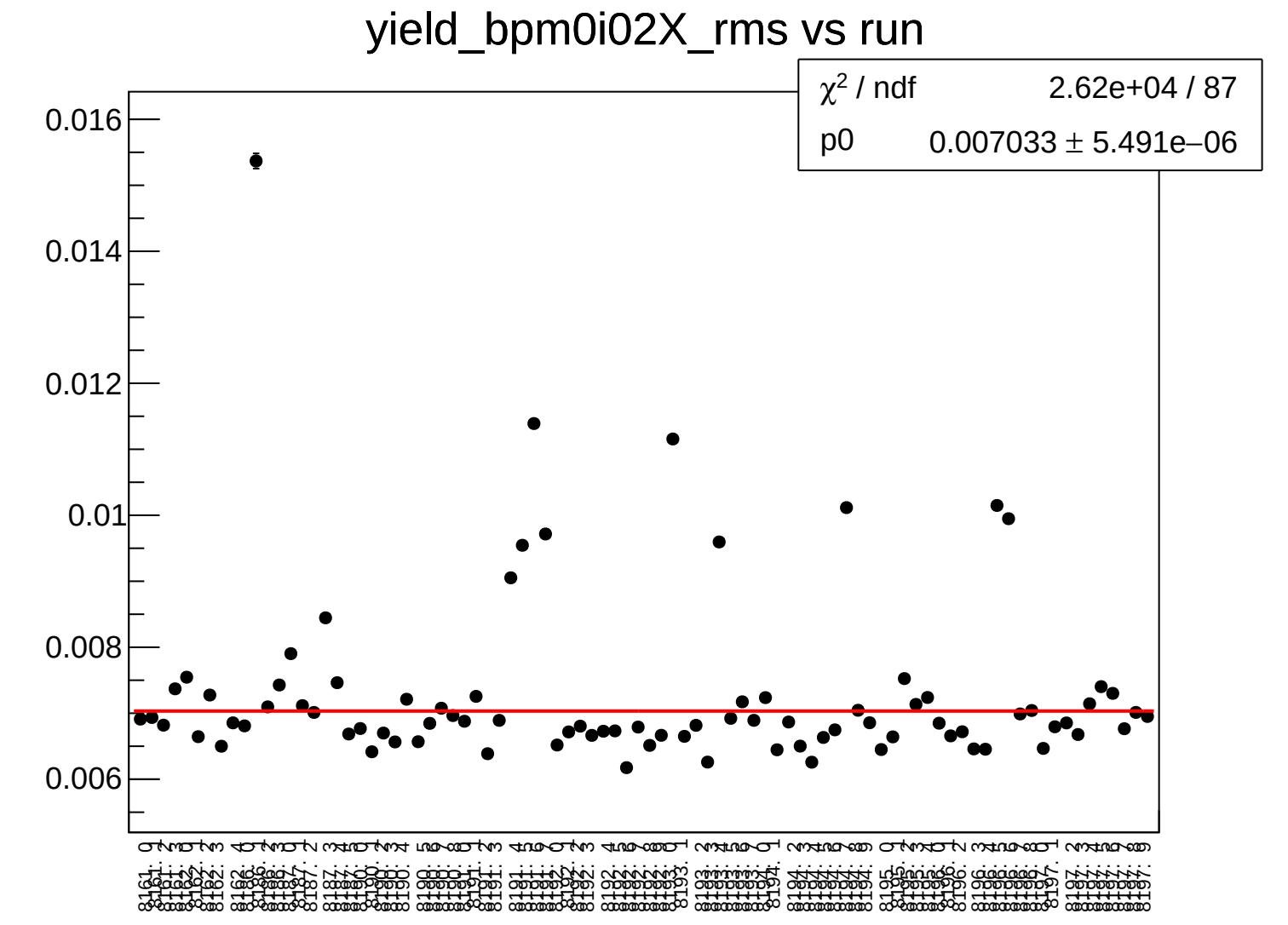

yield_bpm16Y_mean vs run
χ² / ndf 7.791e+08 / 87
p0 −0.5874 ± 9.091e−06
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 88
Mean 112.6
Std Dev 0
4000
2000
0
−2000
−4000
−6000
−8000

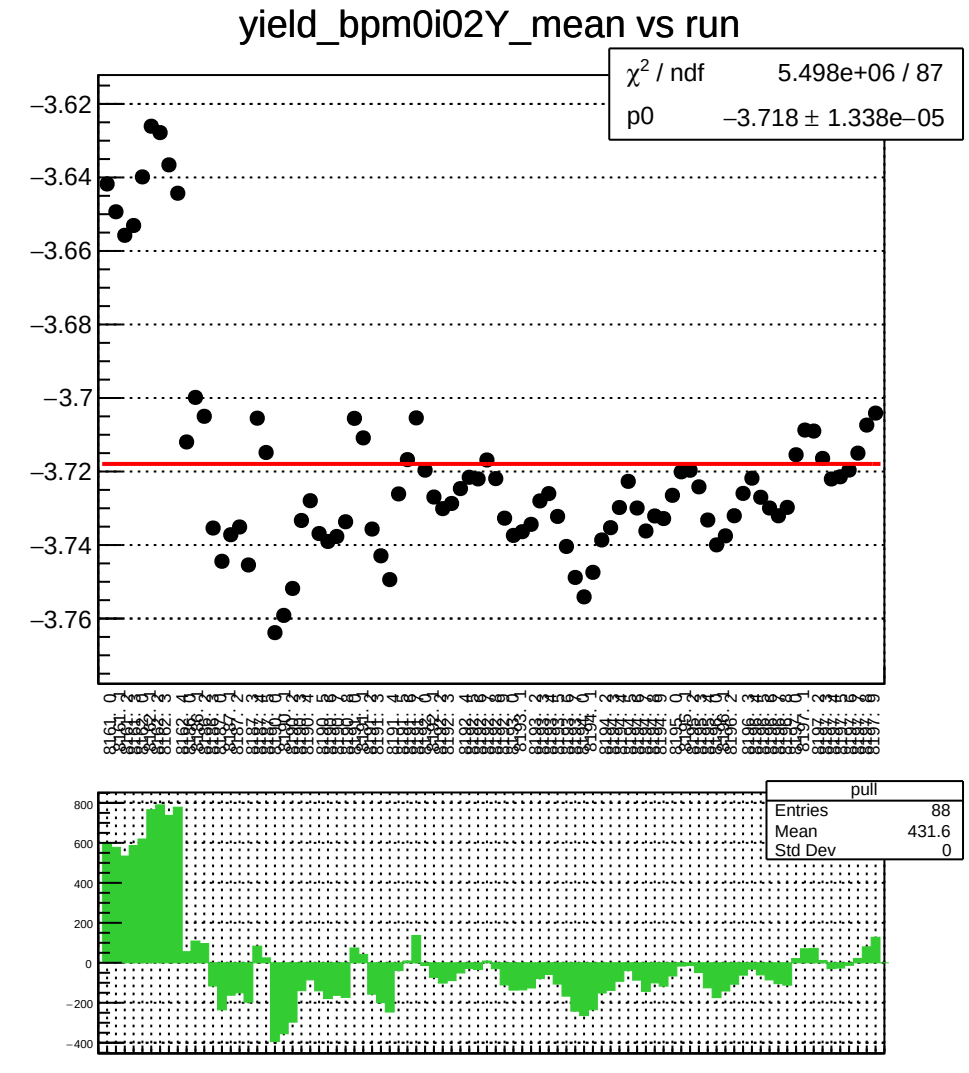

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

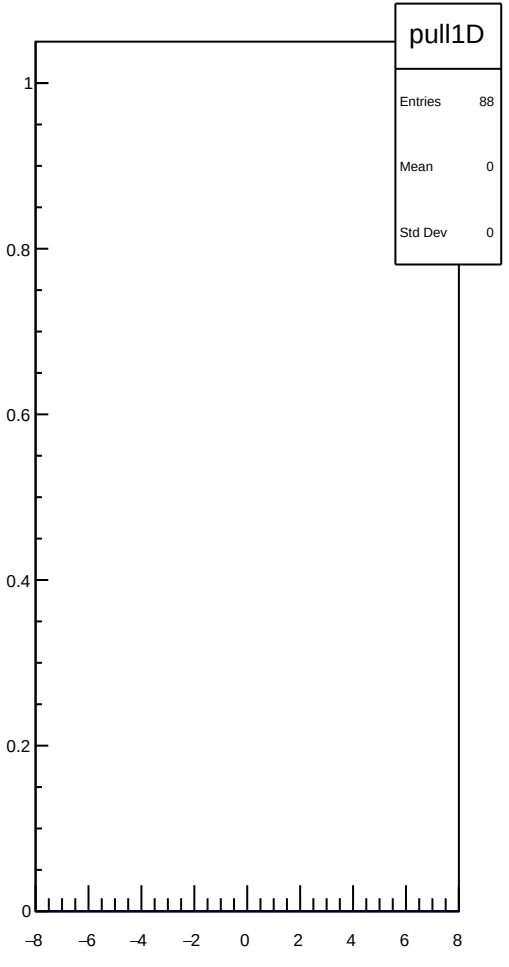

yield_bpm16Y_rms vs run
χ^2 / ndf 9.422e+04 / 87
p0 0.008062 ± 6.429e−06
0.1
0.08
0.06
0.04
0.02

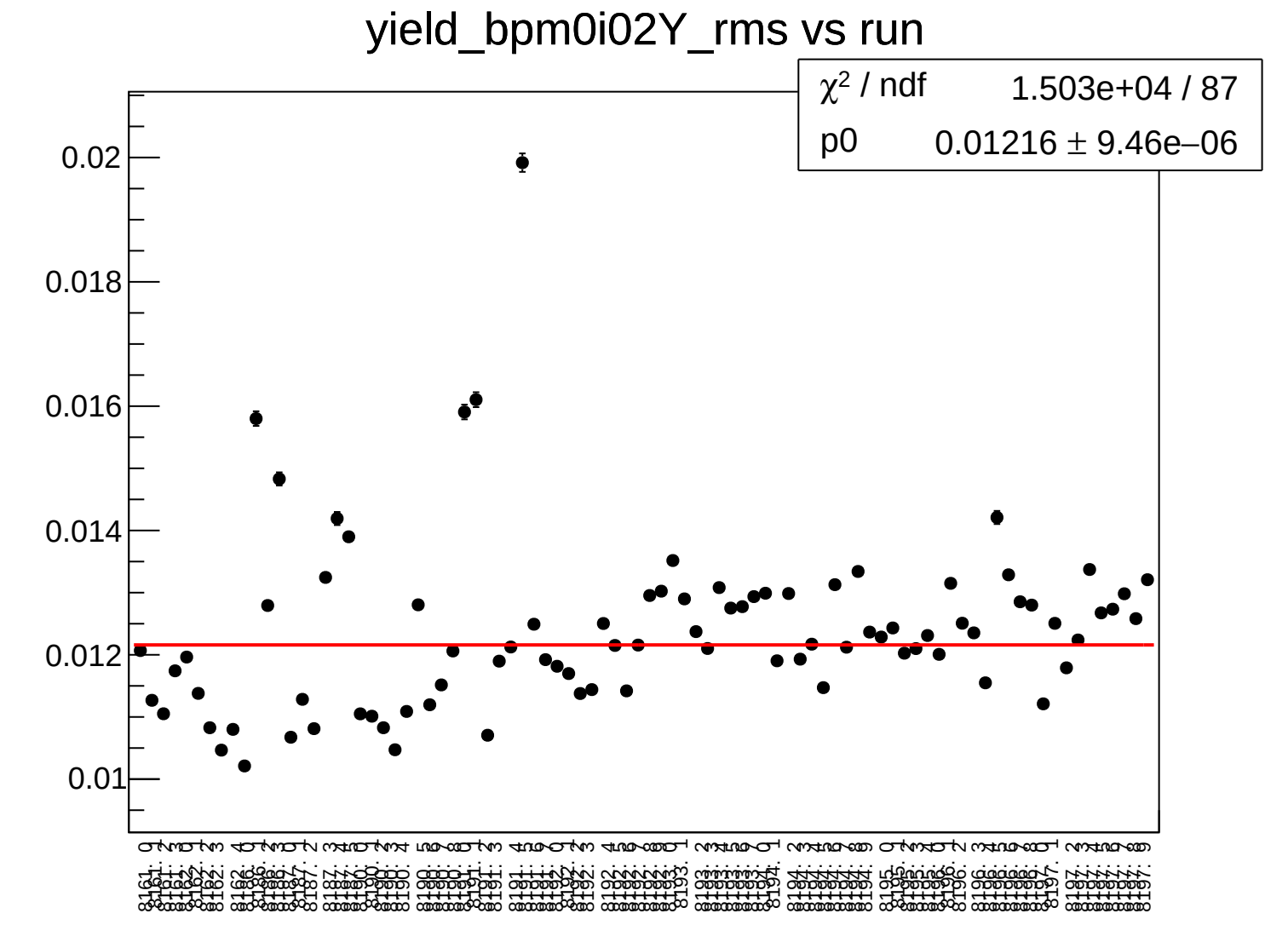

yield_bpm0i02X_mean vs run
χ² / ndf 1.178e+07 / 87
p0 0.5543 ± 7.765e−06
0.62
0.6
0.58
0.56
0.54
0.52
0.5
pull
Entries 88
Mean 39.38
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

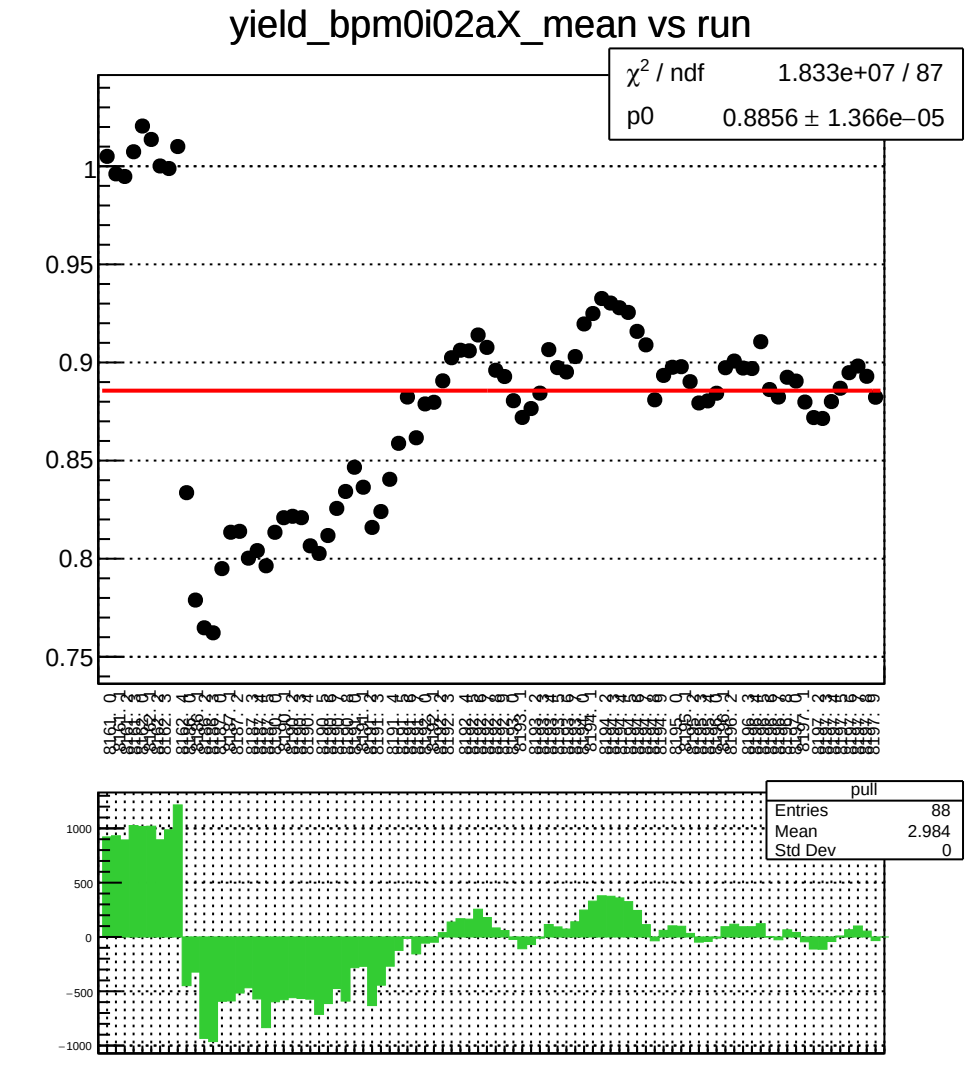

pull1D
Entries 88
Mean −2.77
Std Dev 2.963
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

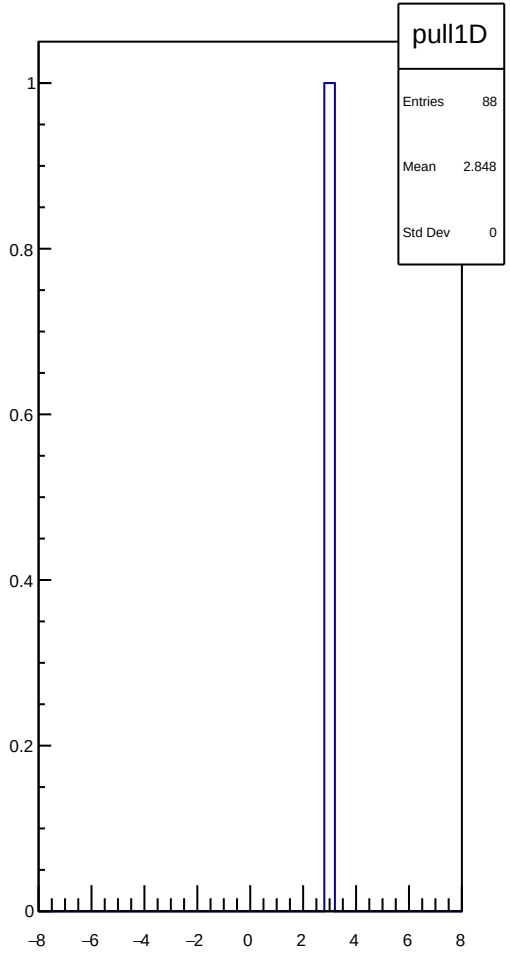

yield_bpm0i02X_rms vs run
χ² / ndf 2.62e+04 / 87
p0 0.007033 ± 5.491e−06
0.016
0.014
0.012
0.01
0.008
0.006

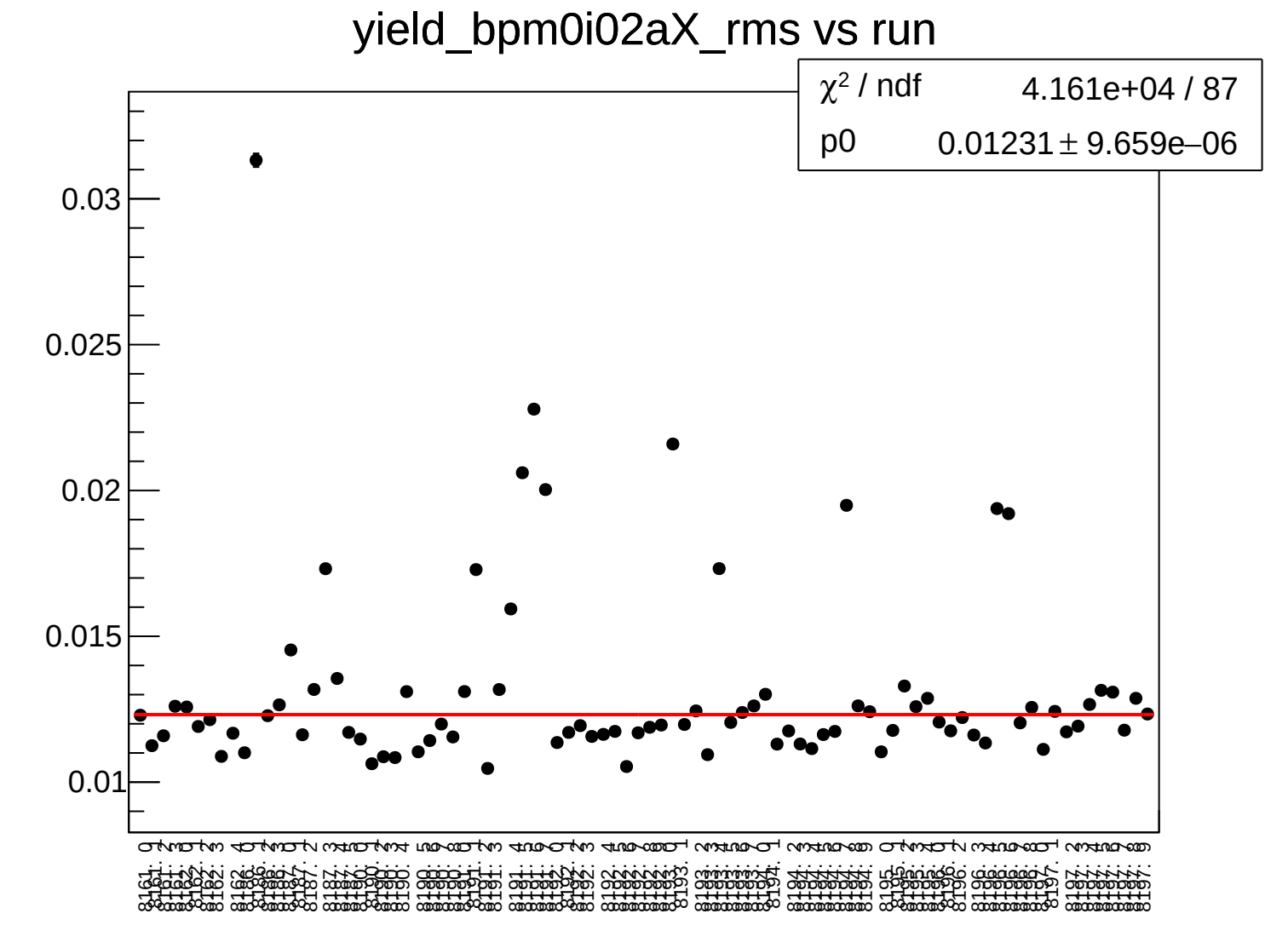

yield_bpm0i02Y_mean vs run
χ² / ndf 5.498e+06 / 87
p0 −3.718 ± 1.338e−05
−3.62
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
pull
Entries 88
Mean 431.6
Std Dev 0
800
600
400
200
0
−200
−400

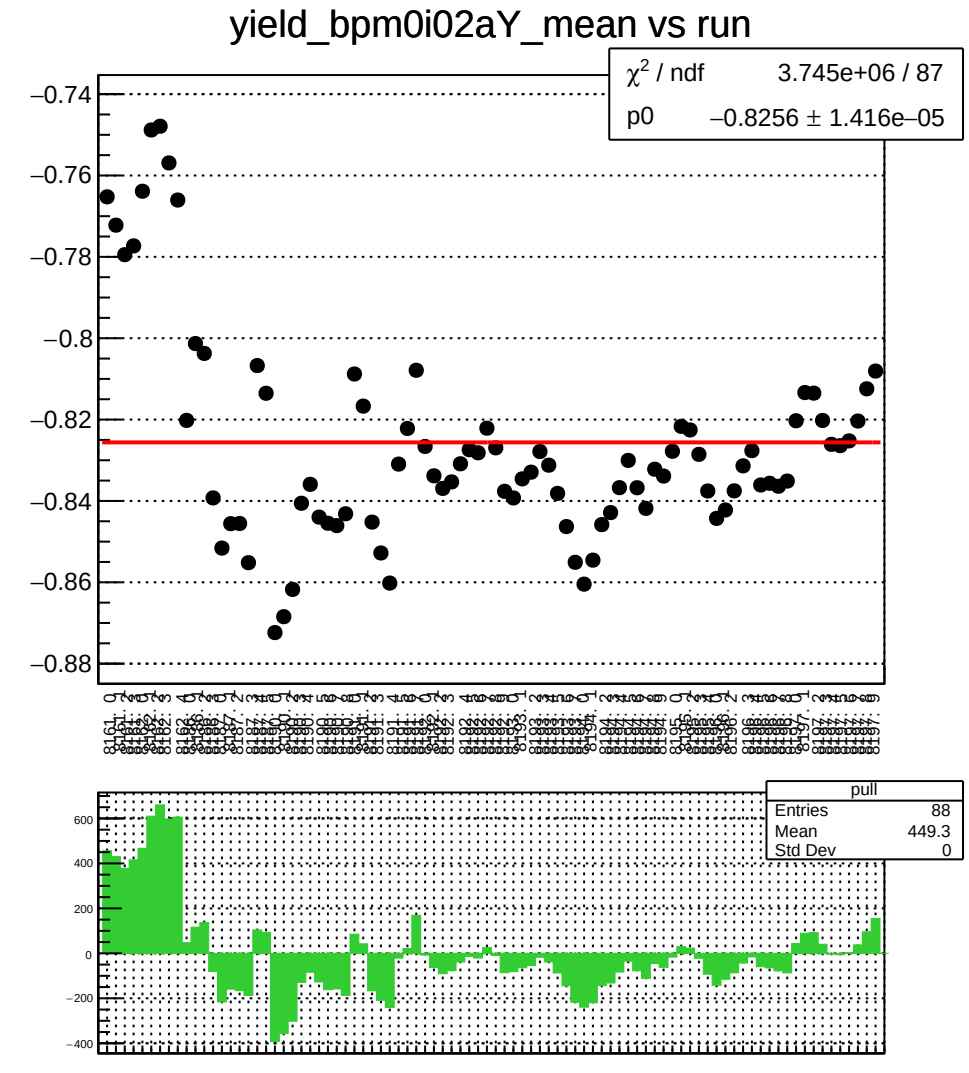

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

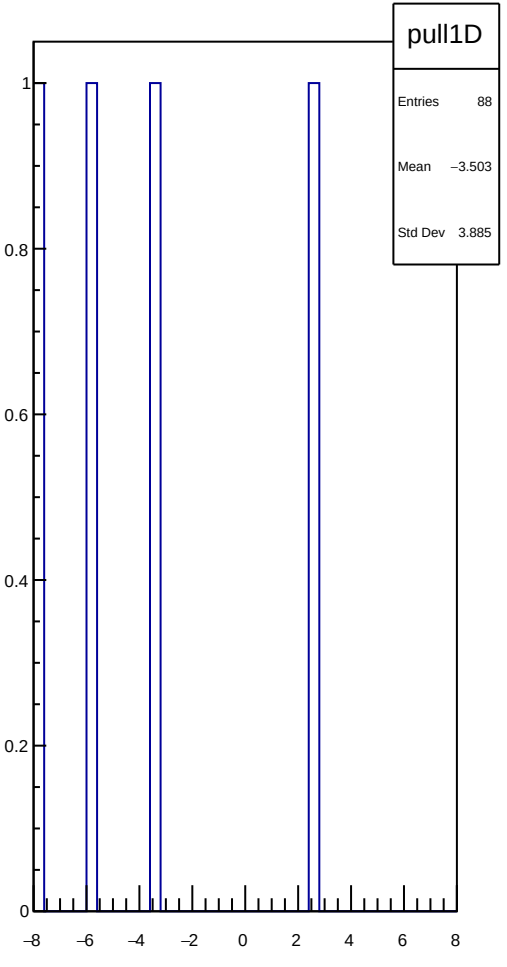

yield_bpm0i02Y_rms vs run
χ² / ndf 1.503e+04 / 87
p0 0.01216 ± 9.46e−06
0.02
0.018
0.016
0.014
0.012
0.01

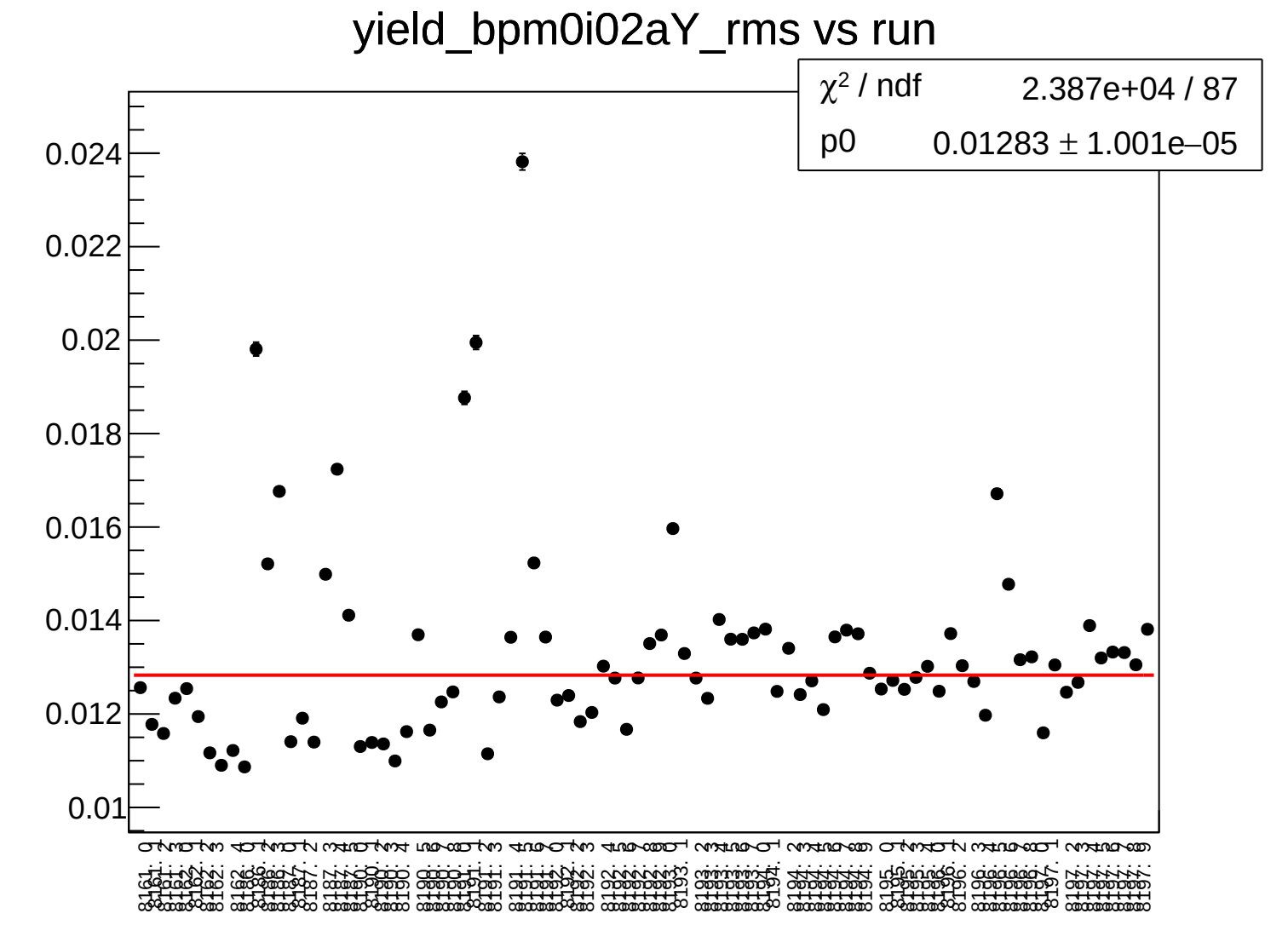

yield_bpm0i02aX_mean vs run
χ² / ndf 1.833e+07 / 87
p0 0.8856 ± 1.366e−05
pull
Entries 88
Mean 2.984
Std Dev 0

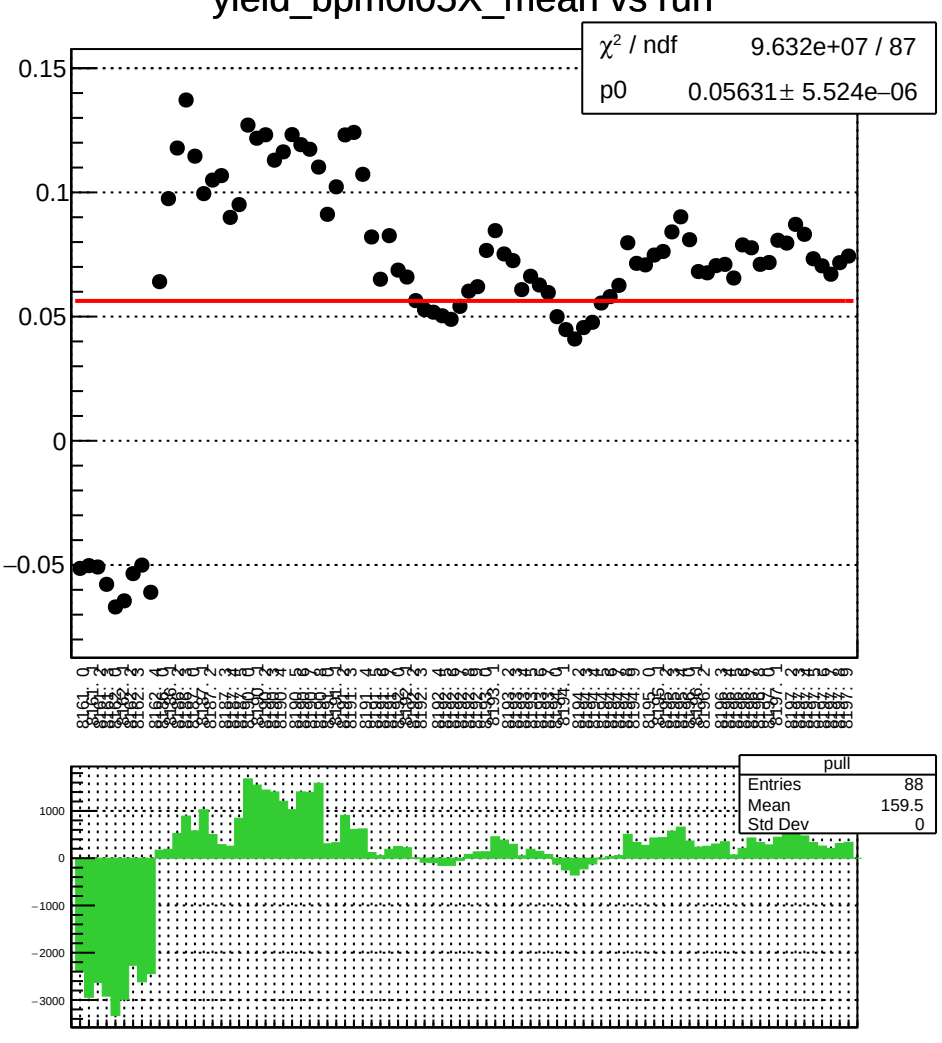

pull1D
Entries 88
Mean 2.848
Std Dev 0

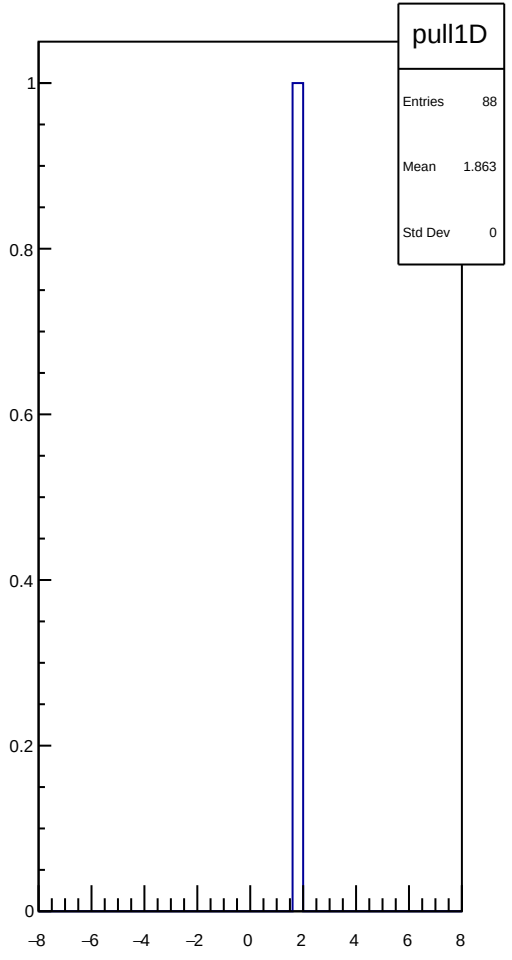

yield_bpm0i02aX_rms vs run
χ² / ndf 4.161e+04 / 87
p0 0.01231 ± 9.659e–06
0.03
0.025
0.02
0.015
0.01

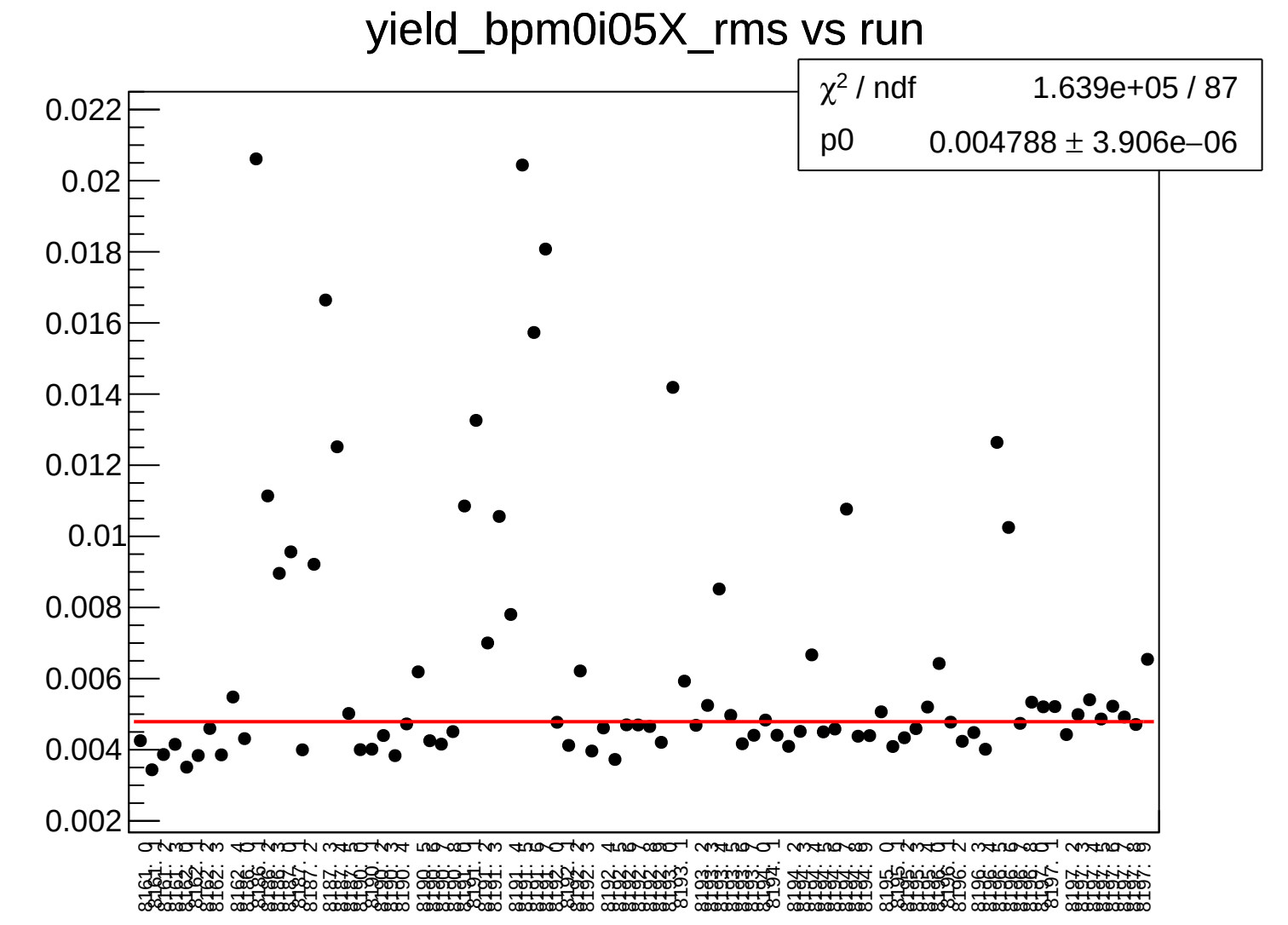

yield_bpm0i02aY_mean vs run
χ² / ndf 3.745e+06 / 87
p0 −0.8256 ± 1.416e−05
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 88
Mean 449.3
Std Dev 0
600
400
200
0
−200
−400

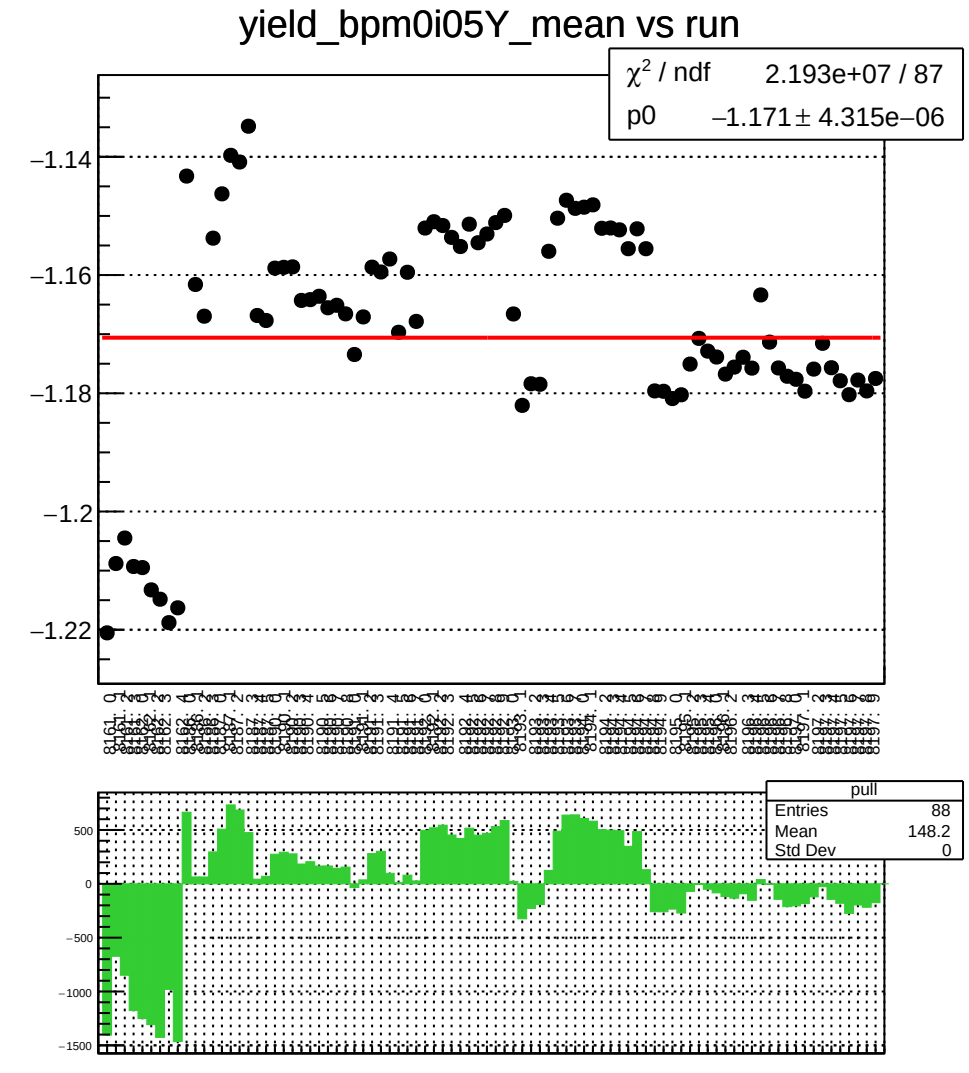

pull1D
Entries 88
Mean −3.503
Std Dev 3.885
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

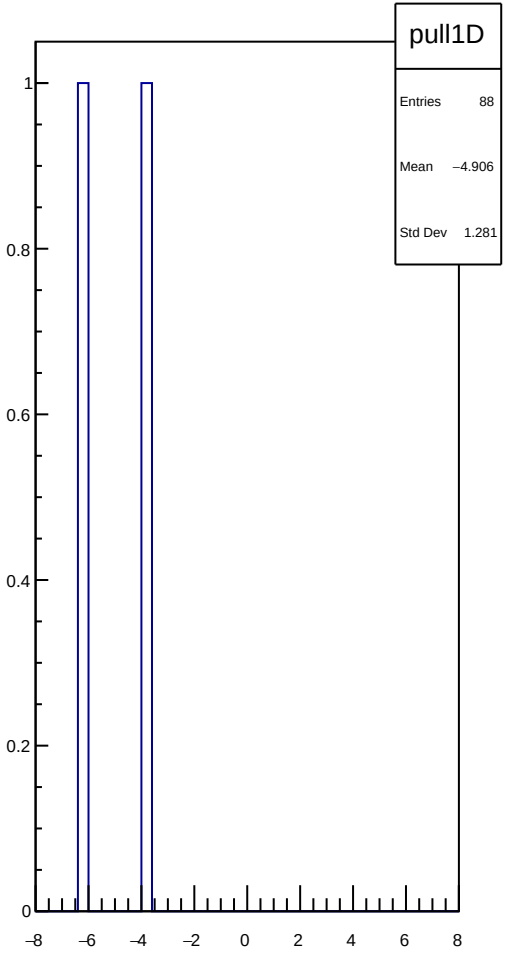

yield_bpm0i02aY_rms vs run
χ² / ndf 2.387e+04 / 87
p0 0.01283 ± 1.001e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

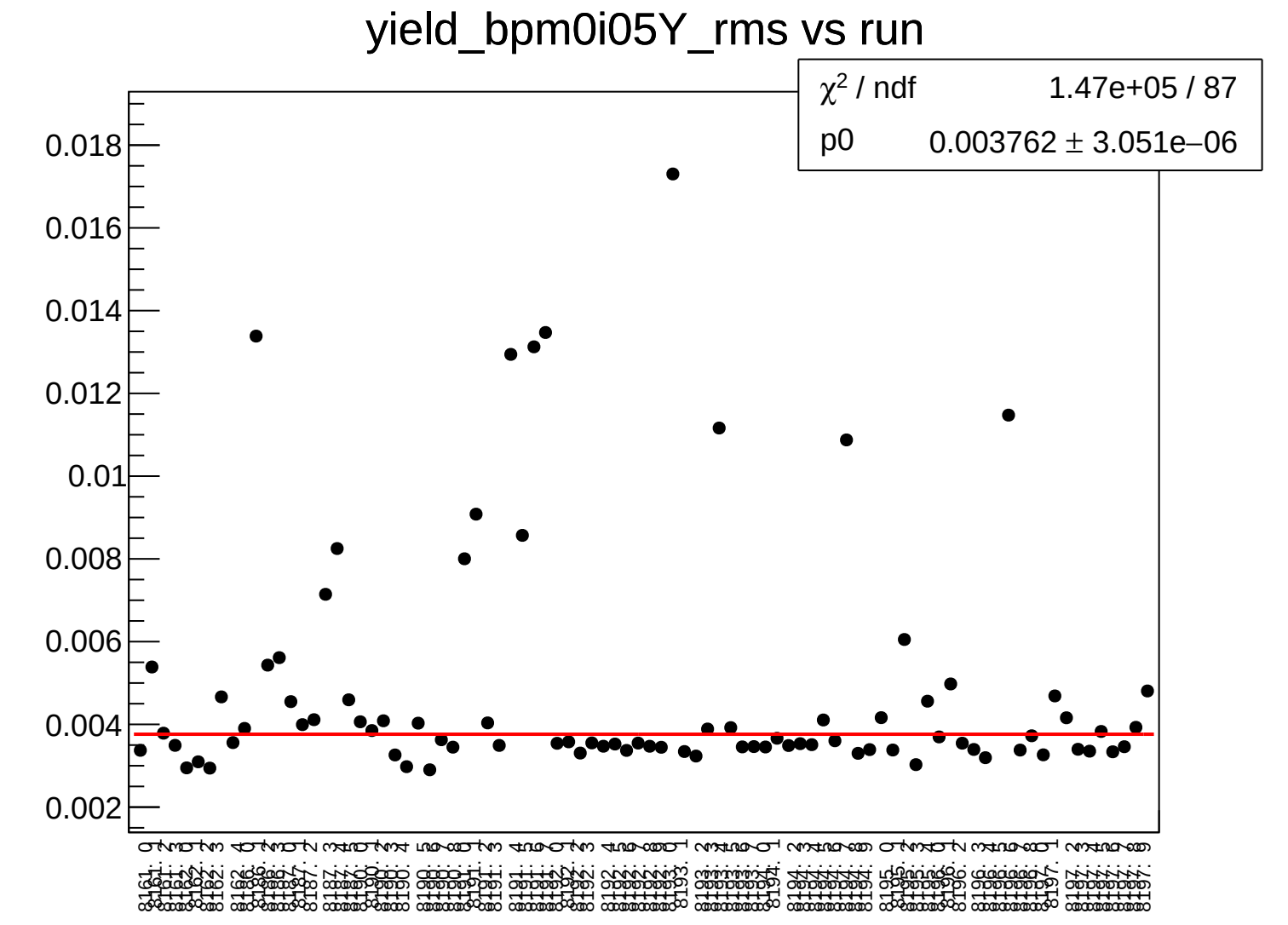

yield_bpm0i05X_mean vs run
χ² / ndf 9.632e+07 / 87
p0 0.05631± 5.524e–06
0.15
0.1
0.05
0
–0.05
pull
Entries 88
Mean 159.5
Std Dev 0
1000
0
–1000
–2000
–3000

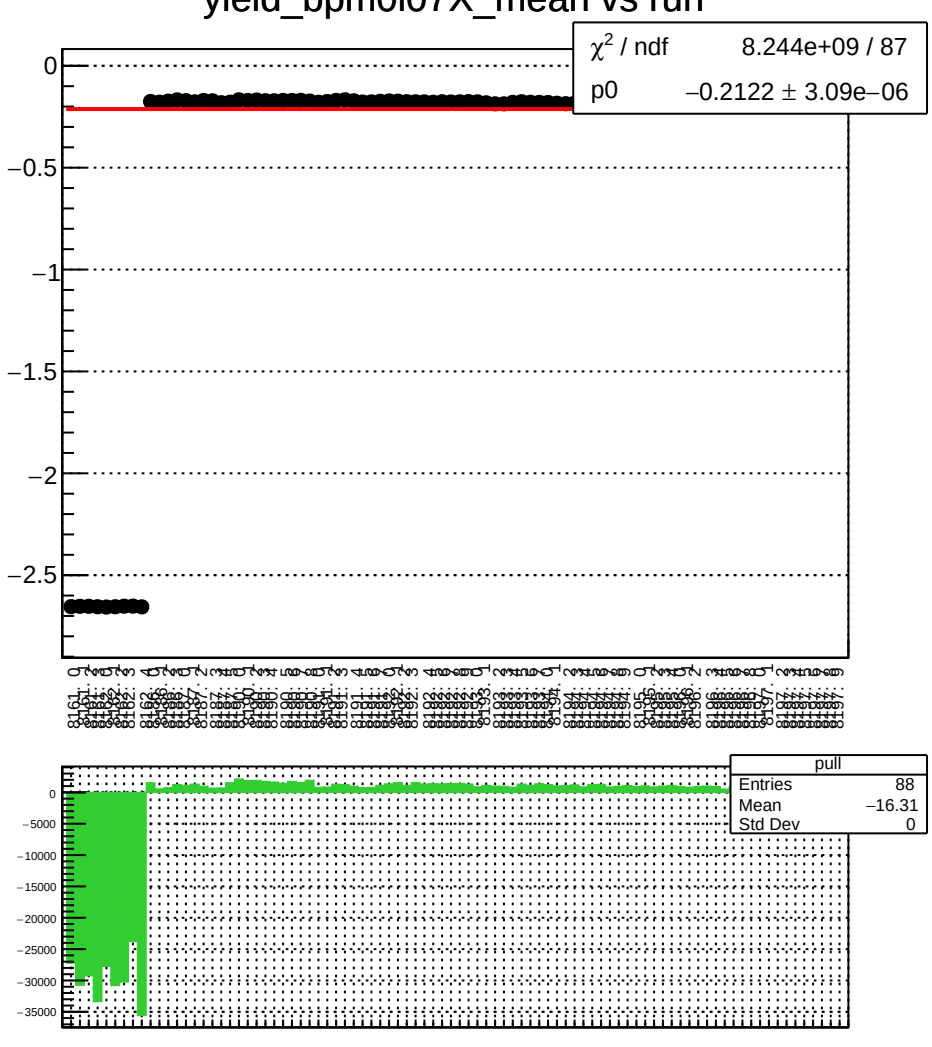

pull1D
Entries 88
Mean 1.863
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

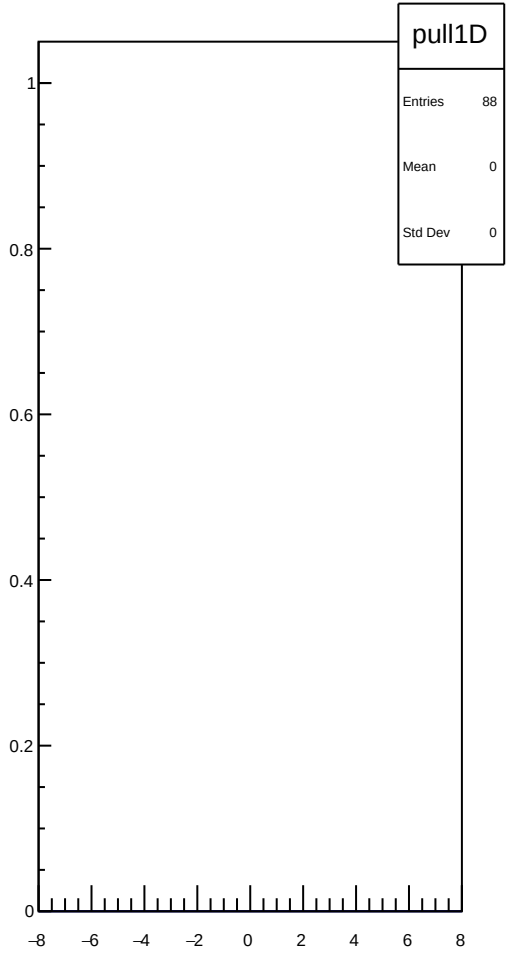

yield_bpm0i05X_rms vs run
χ^2 / ndf 1.639e+05 / 87
p0 0.004788 ± 3.906e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

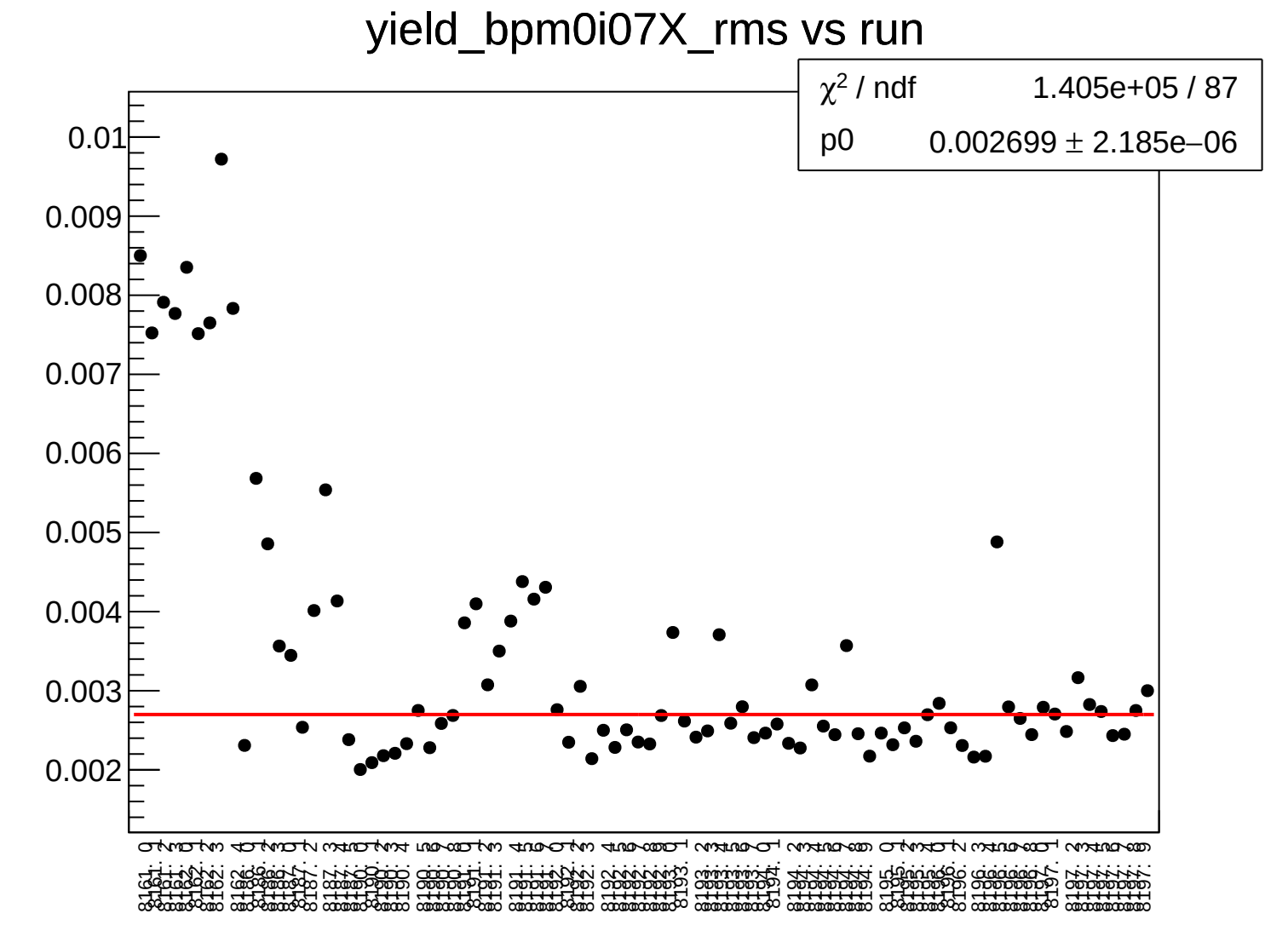

yield_bpm0i05Y_mean vs run
χ² / ndf 2.193e+07 / 87
p0 −1.171 ± 4.315e−06
−1.14
−1.16
−1.18
−1.2
−1.22
pull
Entries 88
Mean 148.2
Std Dev 0
500
0
−500
−1000
−1500

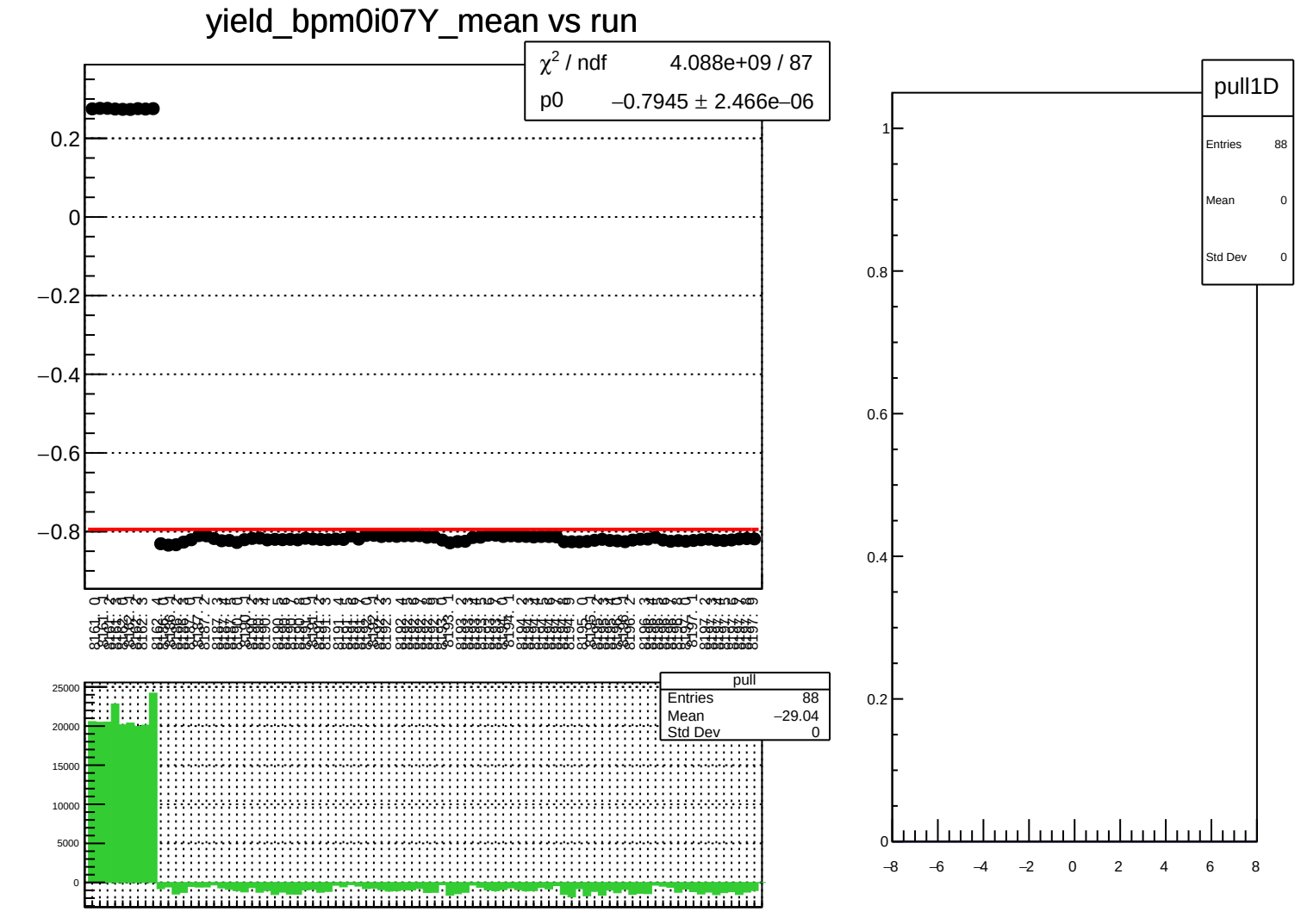

pull1D
Entries 88
Mean −4.906
Std Dev 1.281
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

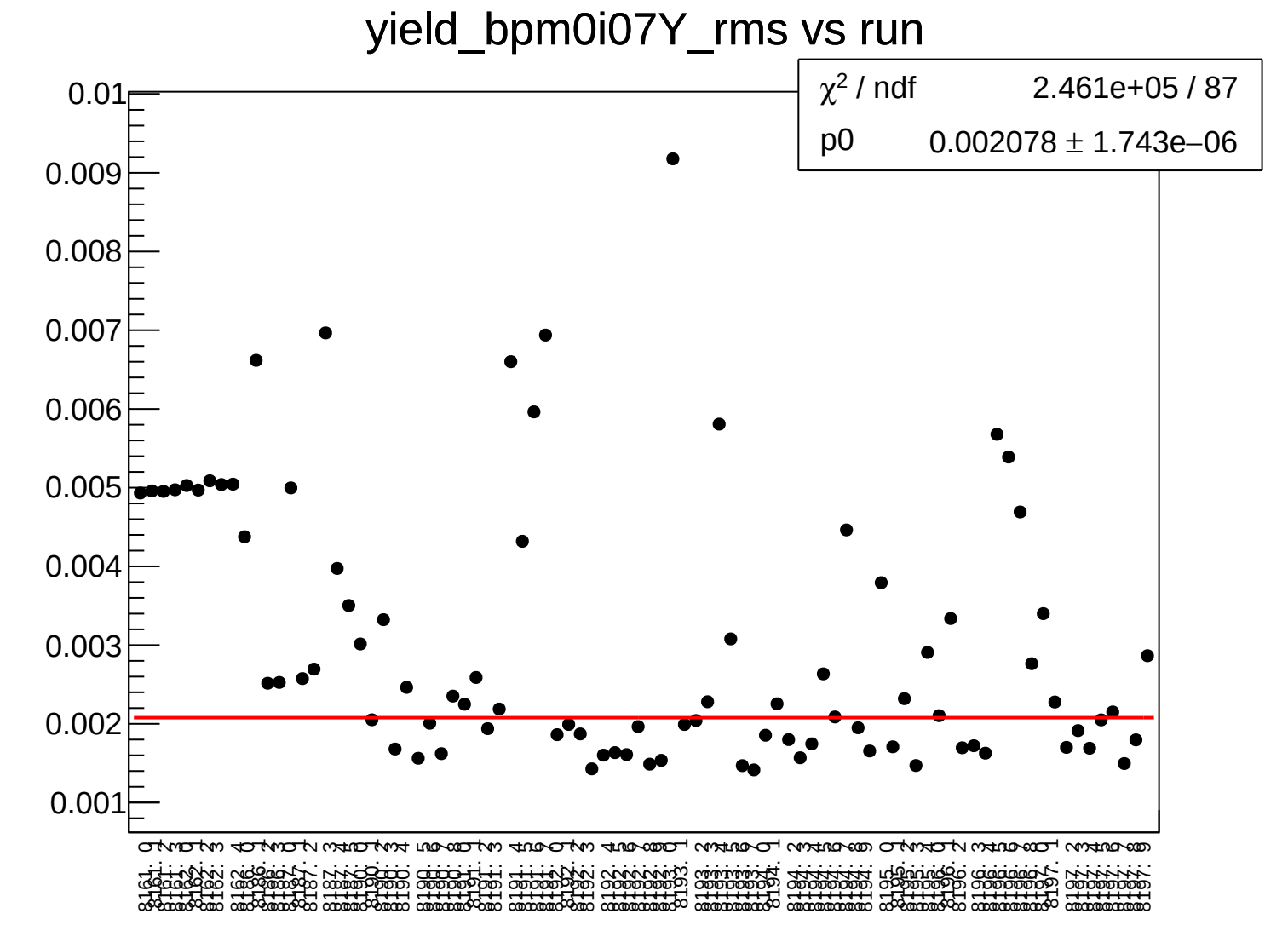

yield_bpm0i05Y_rms vs run
χ² / ndf 1.47e+05 / 87
p0 0.003762 ± 3.051e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

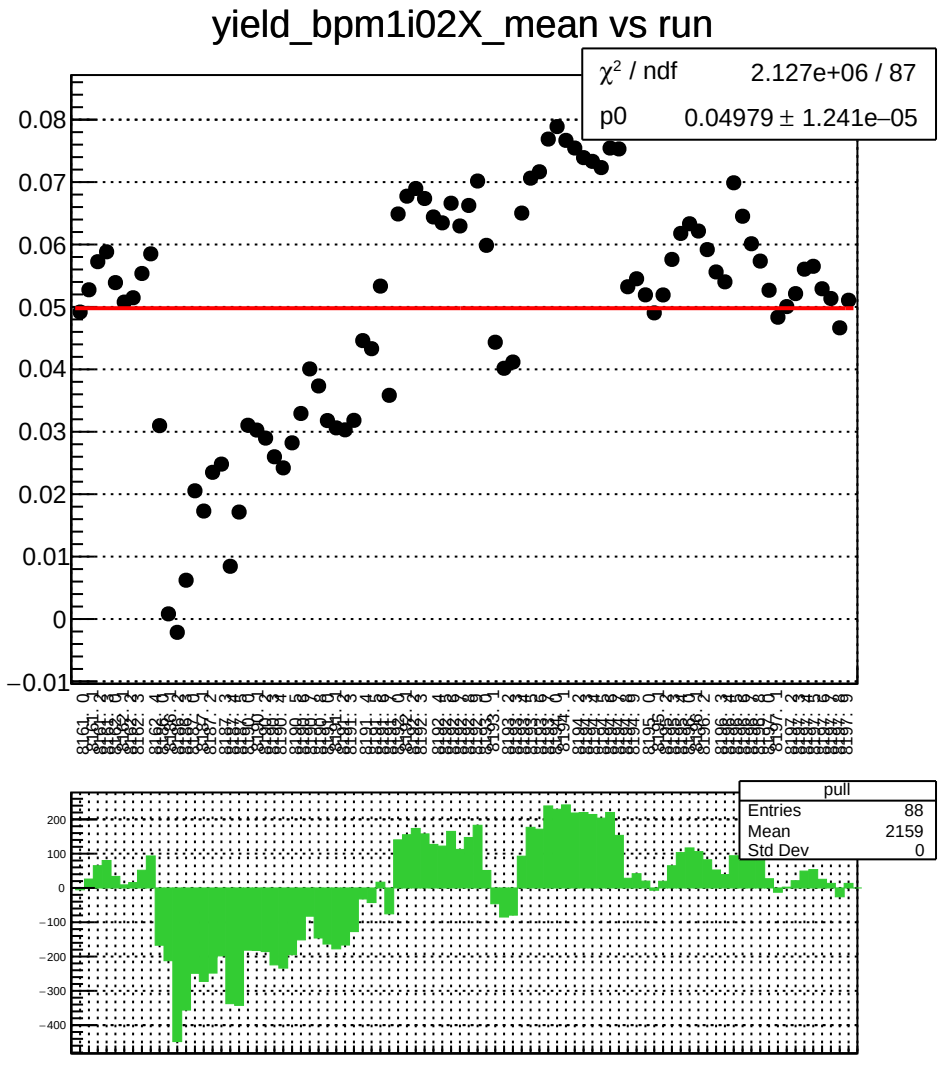

yield_bpm0i07X_mean vs run
χ² / ndf 8.244e+09 / 87
p0 −0.2122 ± 3.09e−06
pull
Entries 88
Mean −16.31
Std Dev 0

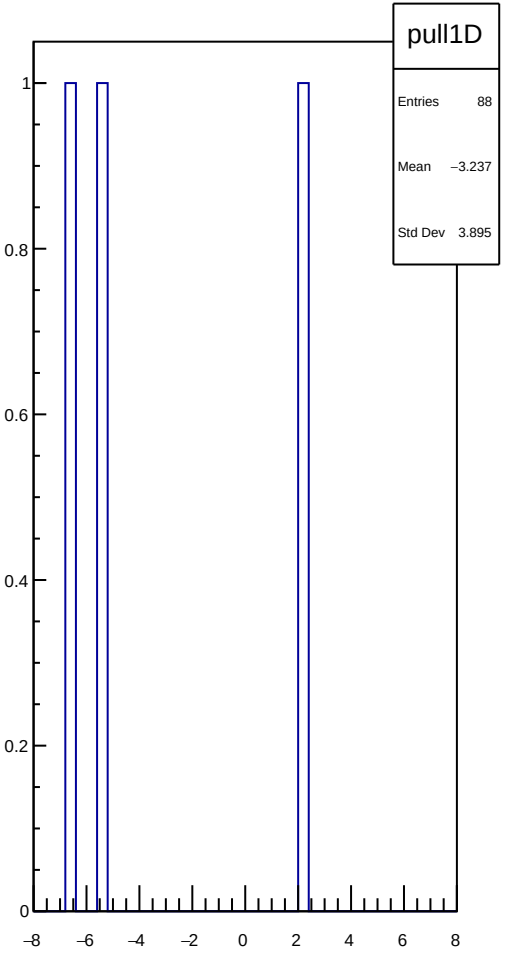

pull1D
Entries 88
Mean 0
Std Dev 0

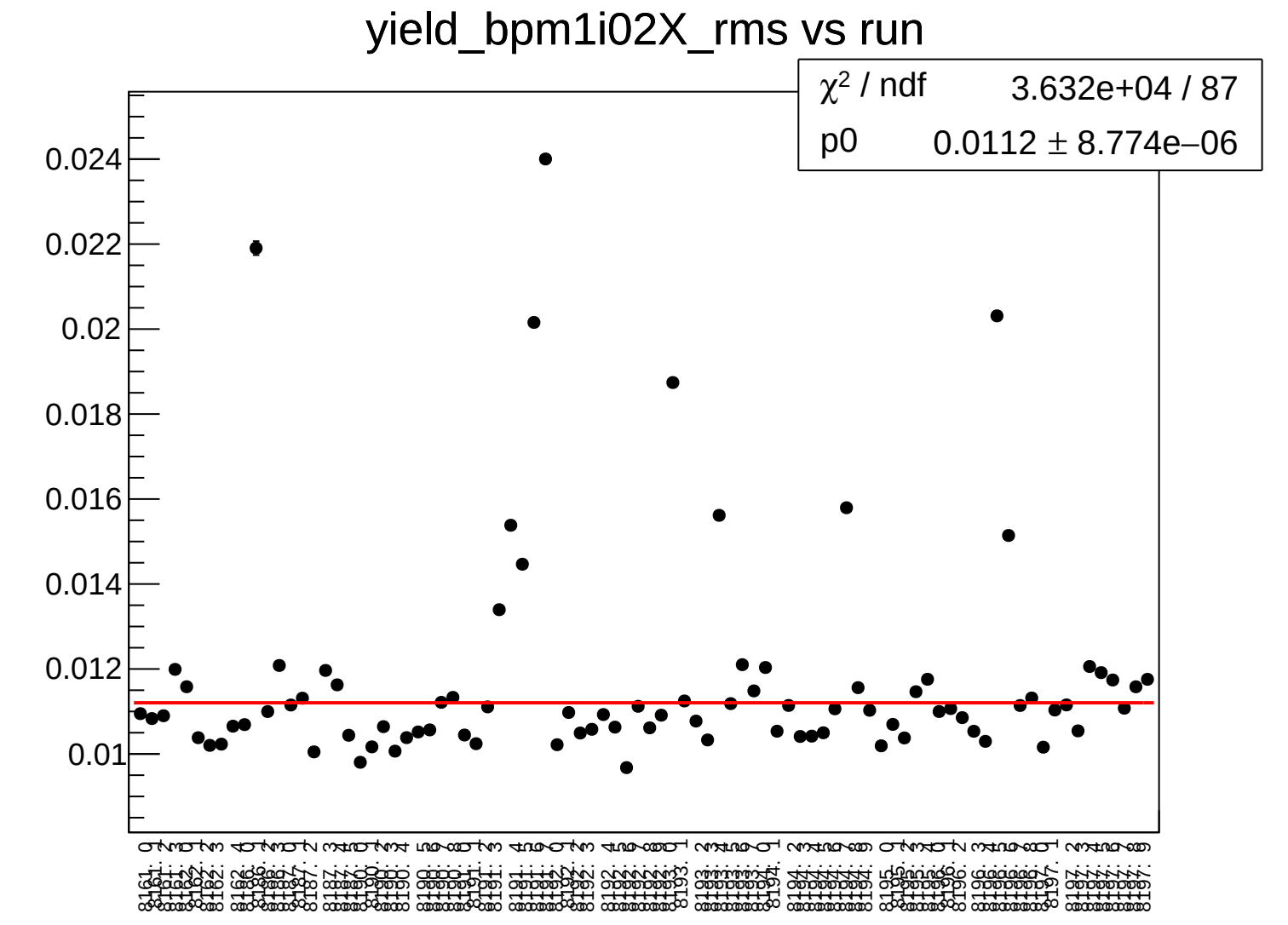

yield_bpm0i07X_rms vs run
χ^2 / ndf 1.405e+05 / 87
p0 0.002699 ± 2.185e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

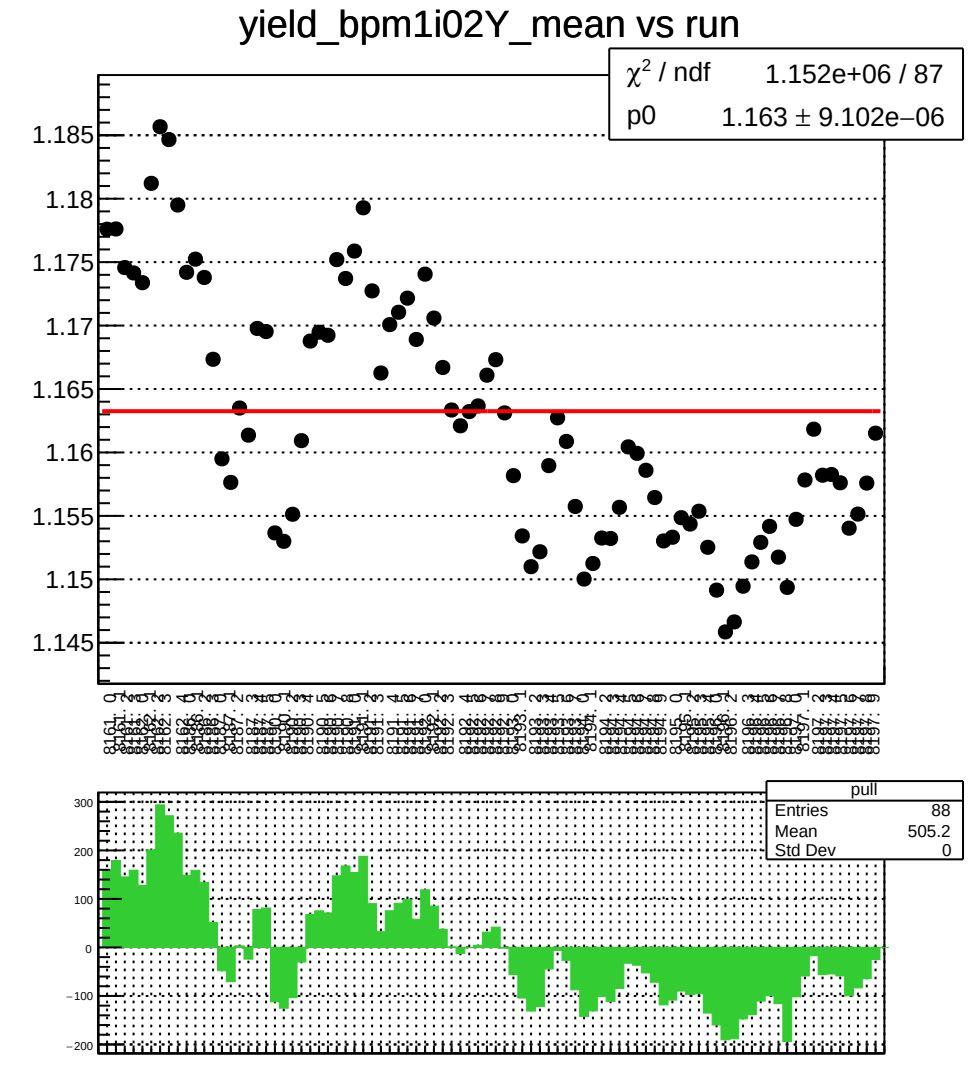

yield_bpm0i07Y_mean vs run
χ² / ndf 4.088e+09 / 87
p0 −0.7945 ± 2.466e−06
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 88
Mean −29.04
Std Dev 0
25000
20000
15000
10000
5000
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

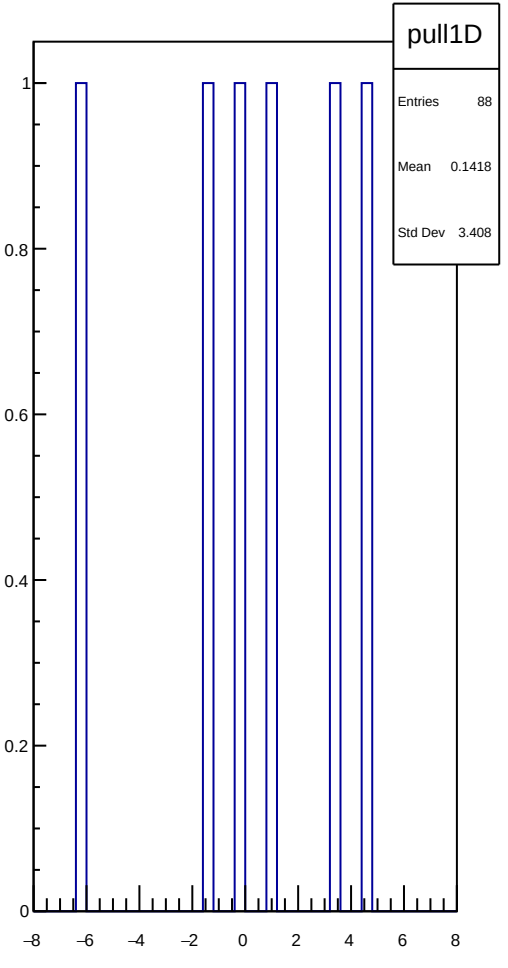

yield_bpm0i07Y_rms vs run
χ² / ndf 2.461e+05 / 87
p0 0.002078 ± 1.743e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

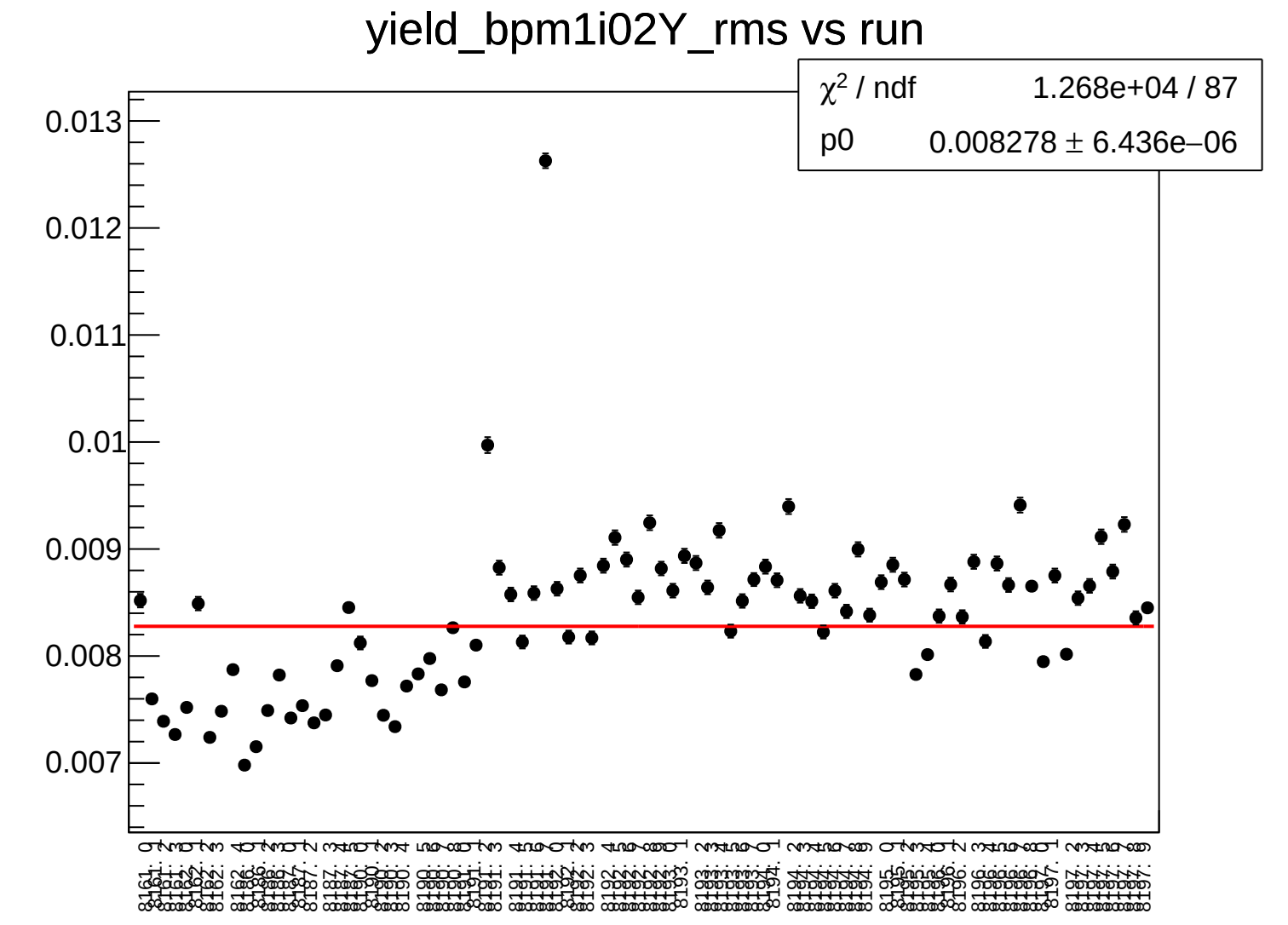

yield_bpm1i02X_mean vs run
χ² / ndf 2.127e+06 / 87
p0 0.04979 ± 1.241e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean 2159
Std Dev 0
200
100
0
−100
−200
−300
−400

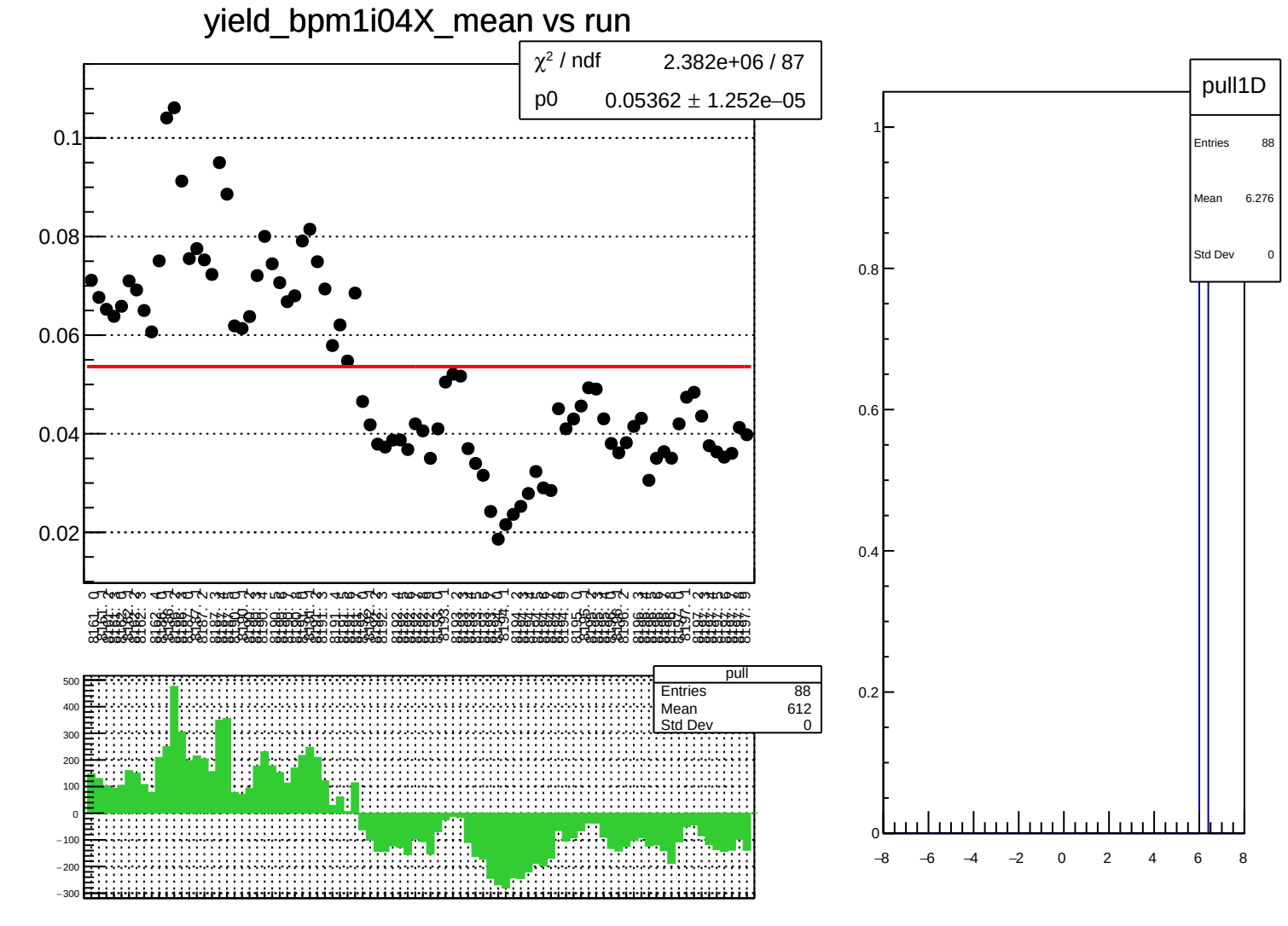

pull1D
Entries 88
Mean −3.237
Std Dev 3.895
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

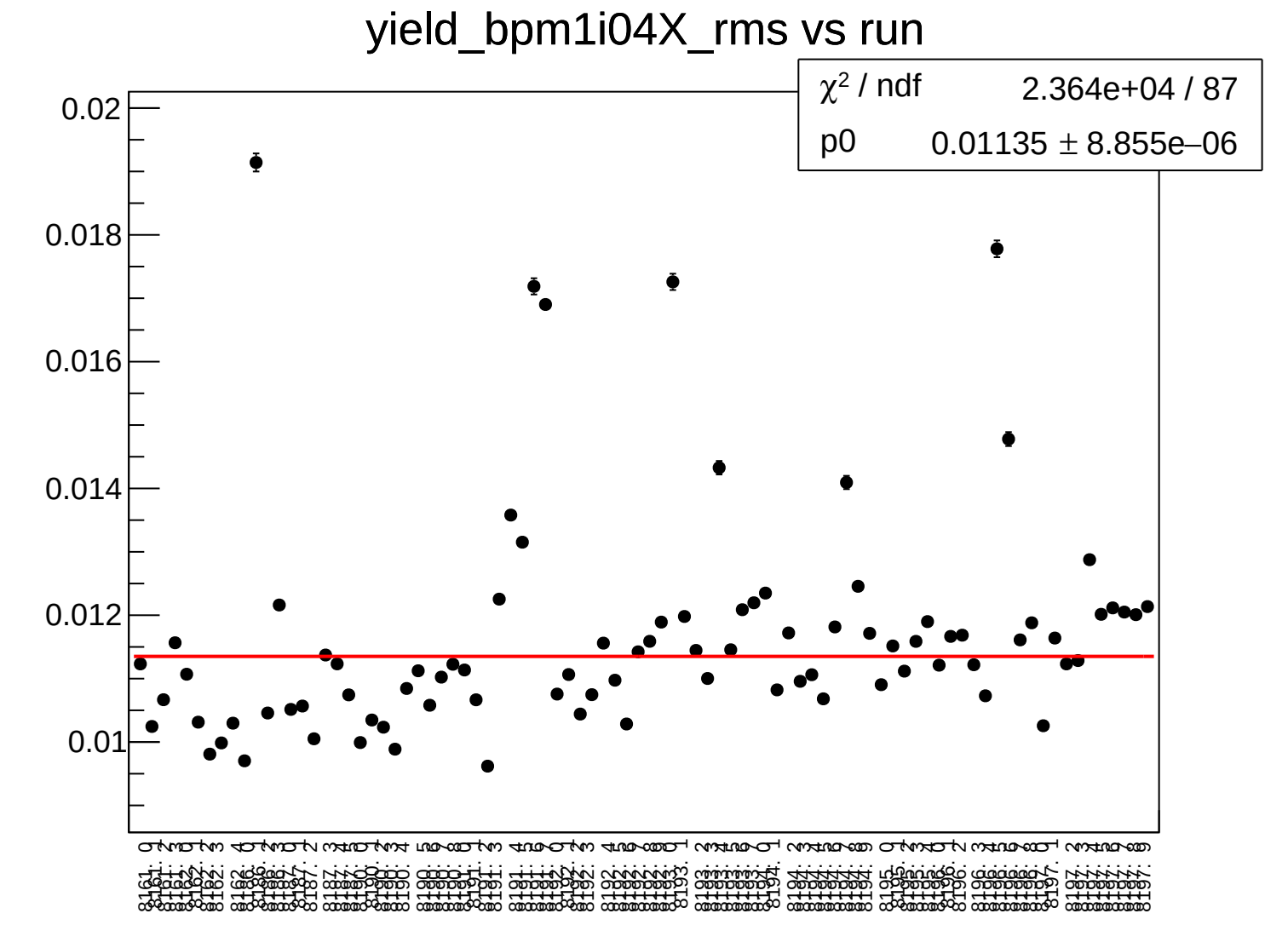

yield_bpm1i02X_rms vs run
χ² / ndf 3.632e+04 / 87
p0 0.0112 ± 8.774e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

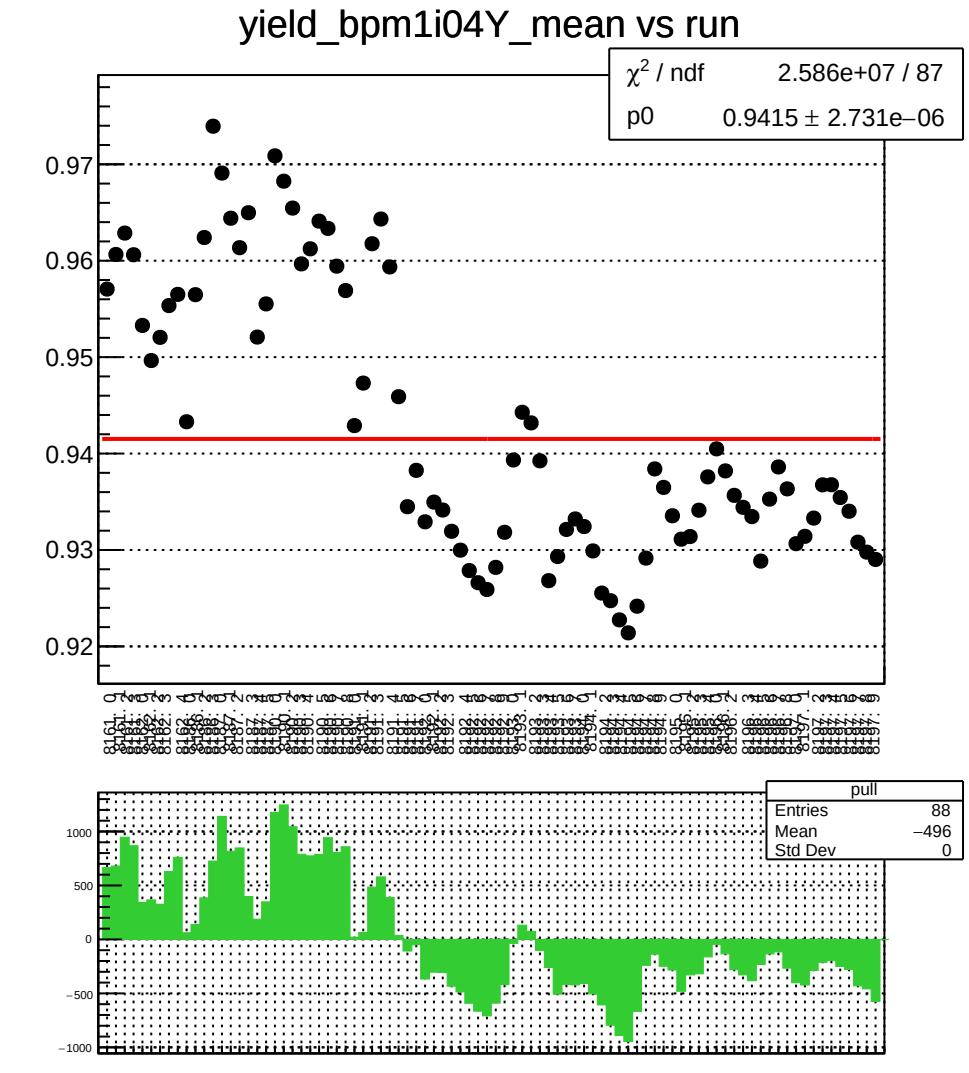

yield_bpm1i02Y_mean vs run
χ² / ndf 1.152e+06 / 87
p0 1.163 ± 9.102e−06
1.185
1.18
1.175
1.17
1.165
1.16
1.155
1.15
1.145
pull
Entries 88
Mean 505.2
Std Dev 0
300
200
100
0
−100
−200

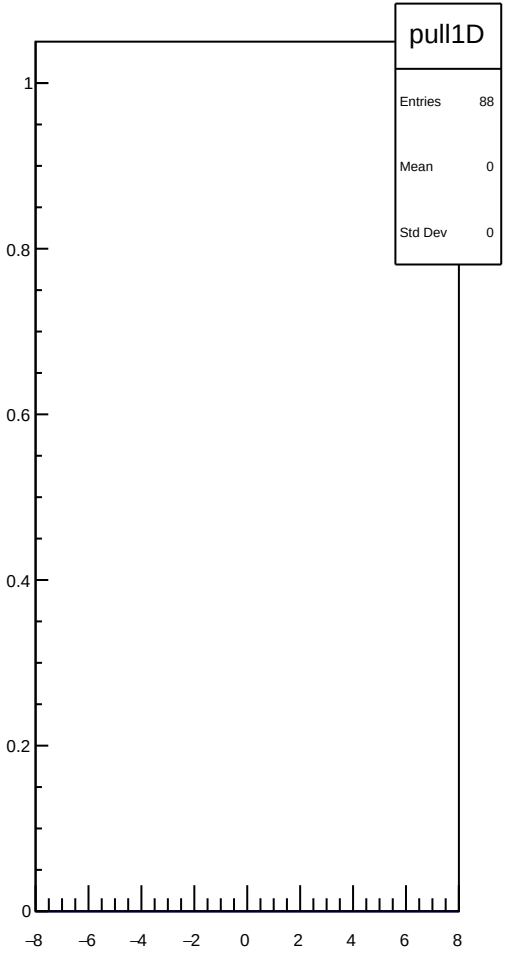

pull1D
Entries 88
Mean 0.1418
Std Dev 3.408
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

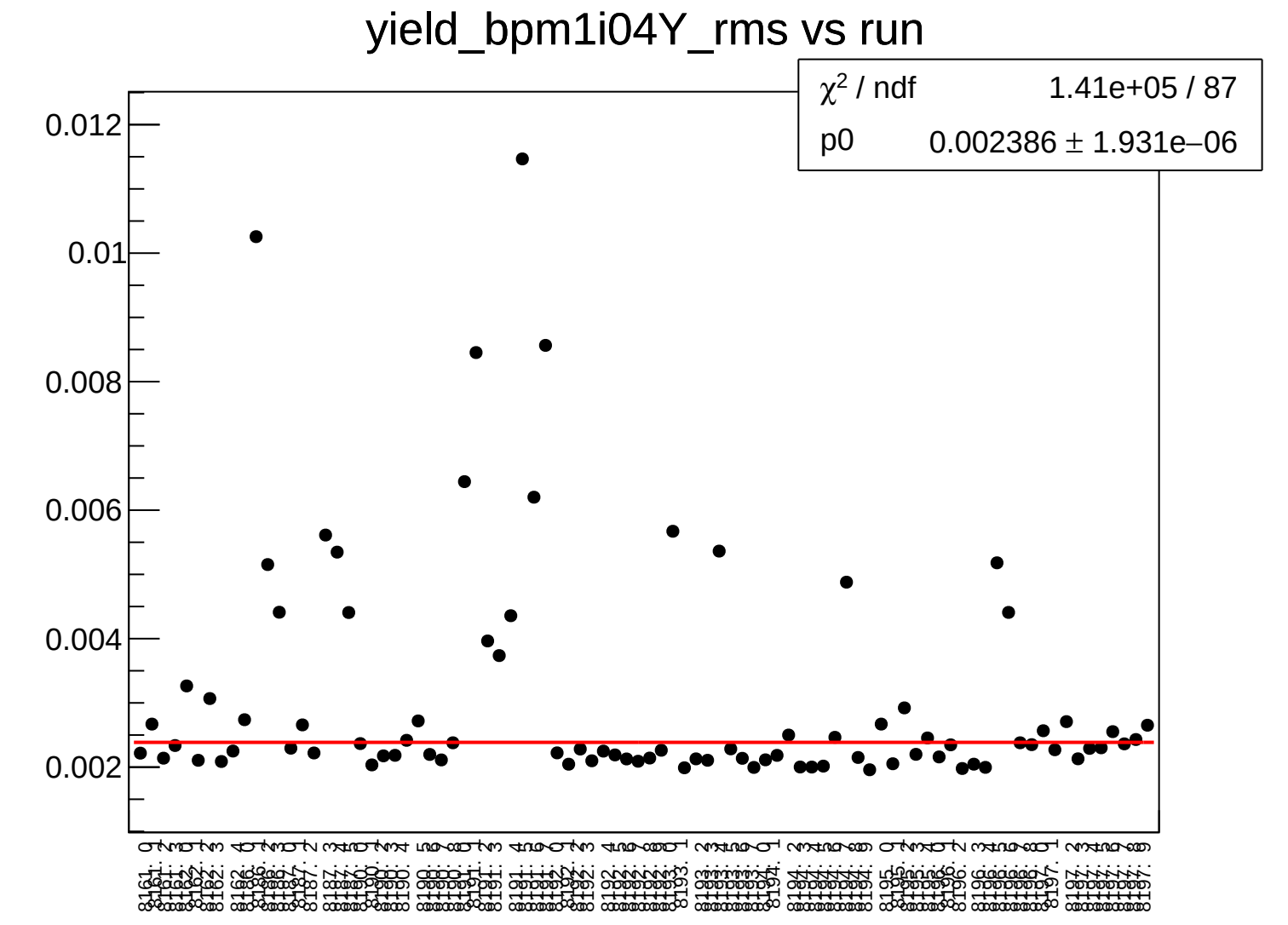

yield_bpm1i02Y_rms vs run
χ² / ndf 1.268e+04 / 87
p0 0.008278 ± 6.436e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

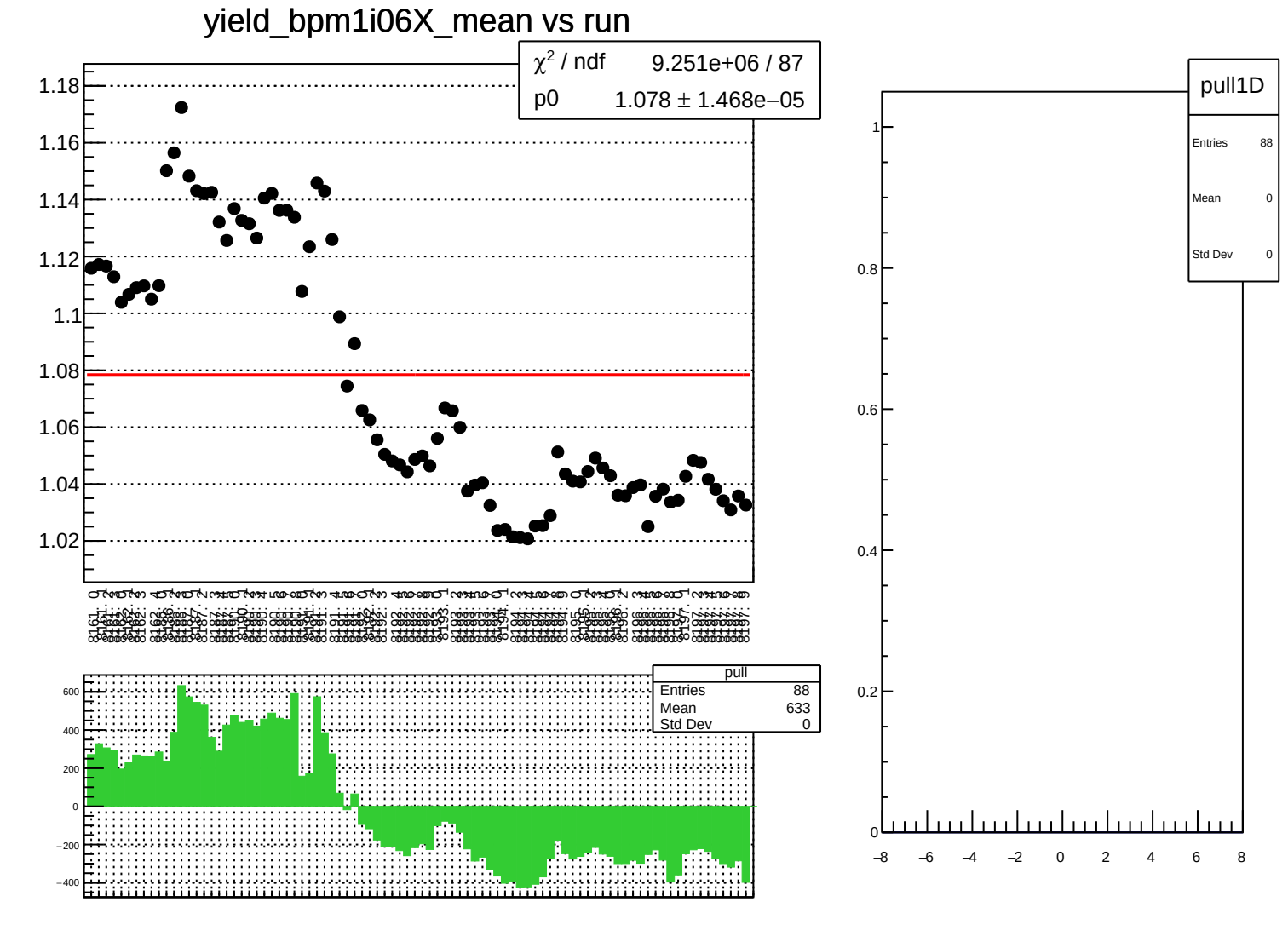

yield_bpm1i04X_mean vs run
χ² / ndf 2.382e+06 / 87
p0 0.05362 ± 1.252e−05
0.1
0.08
0.06
0.04
0.02
pull
Entries 88
Mean 612
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean 6.276
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

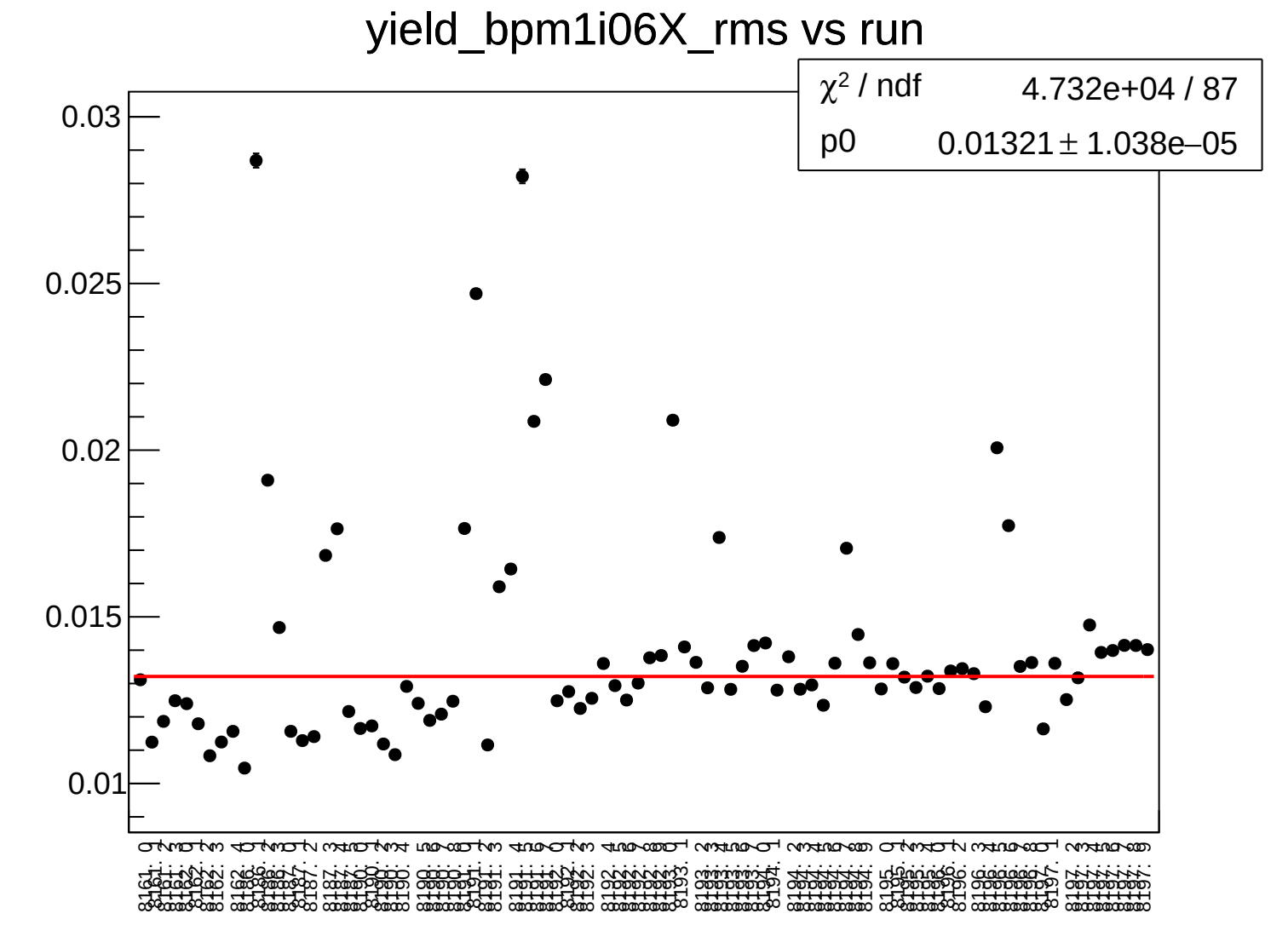

yield_bpm1i04X_rms vs run
χ² / ndf 2.364e+04 / 87
p0 0.01135 ± 8.855e–06
0.02
0.018
0.016
0.014
0.012
0.01

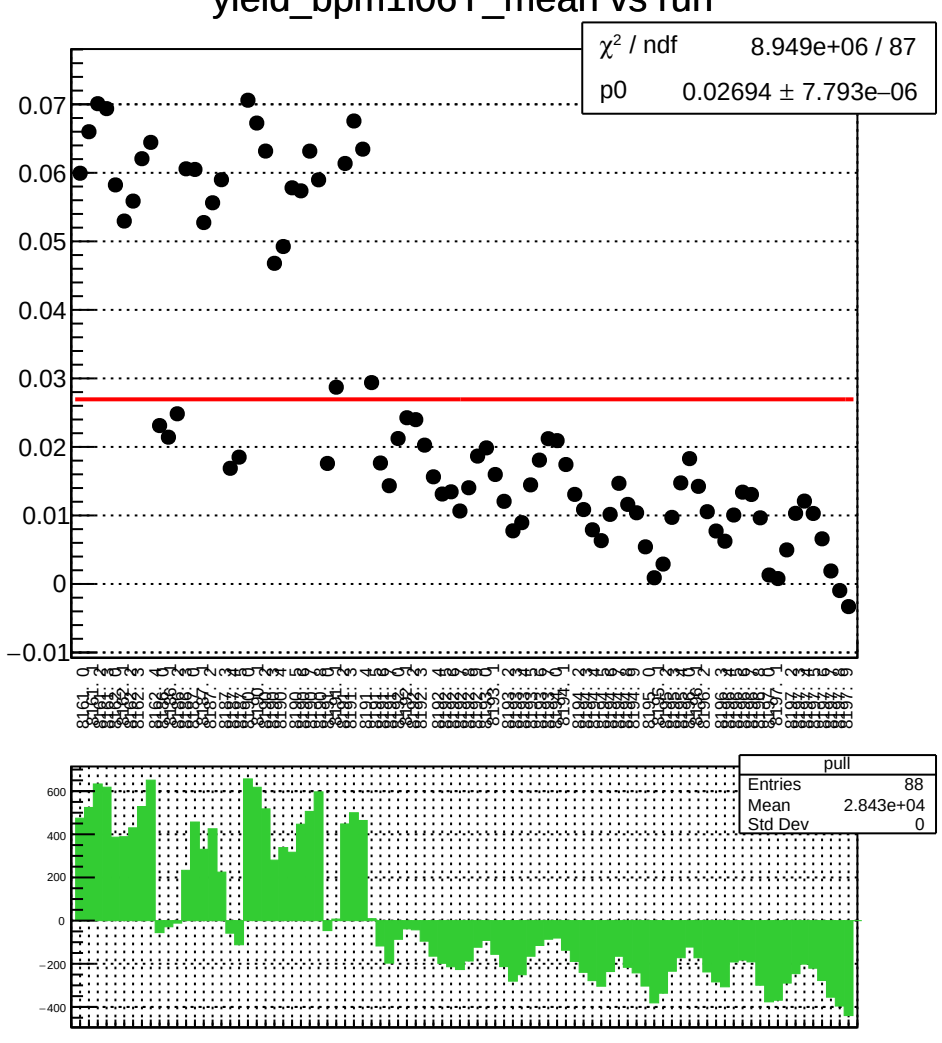

yield_bpm1i04Y_mean vs run
χ² / ndf 2.586e+07 / 87
p0 0.9415 ± 2.731e−06
0.97
0.96
0.95
0.94
0.93
0.92
pull
Entries 88
Mean −496
Std Dev 0
1000
500
0
−500
−1000

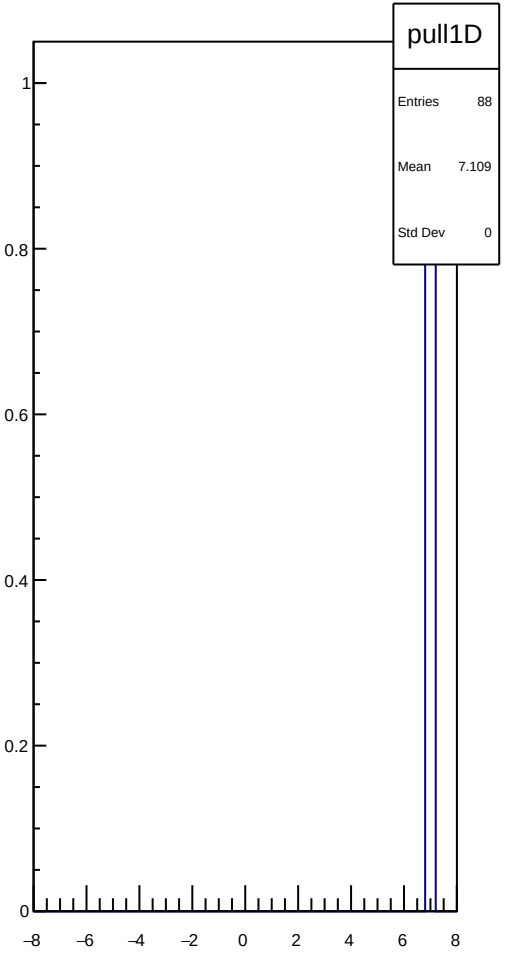

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

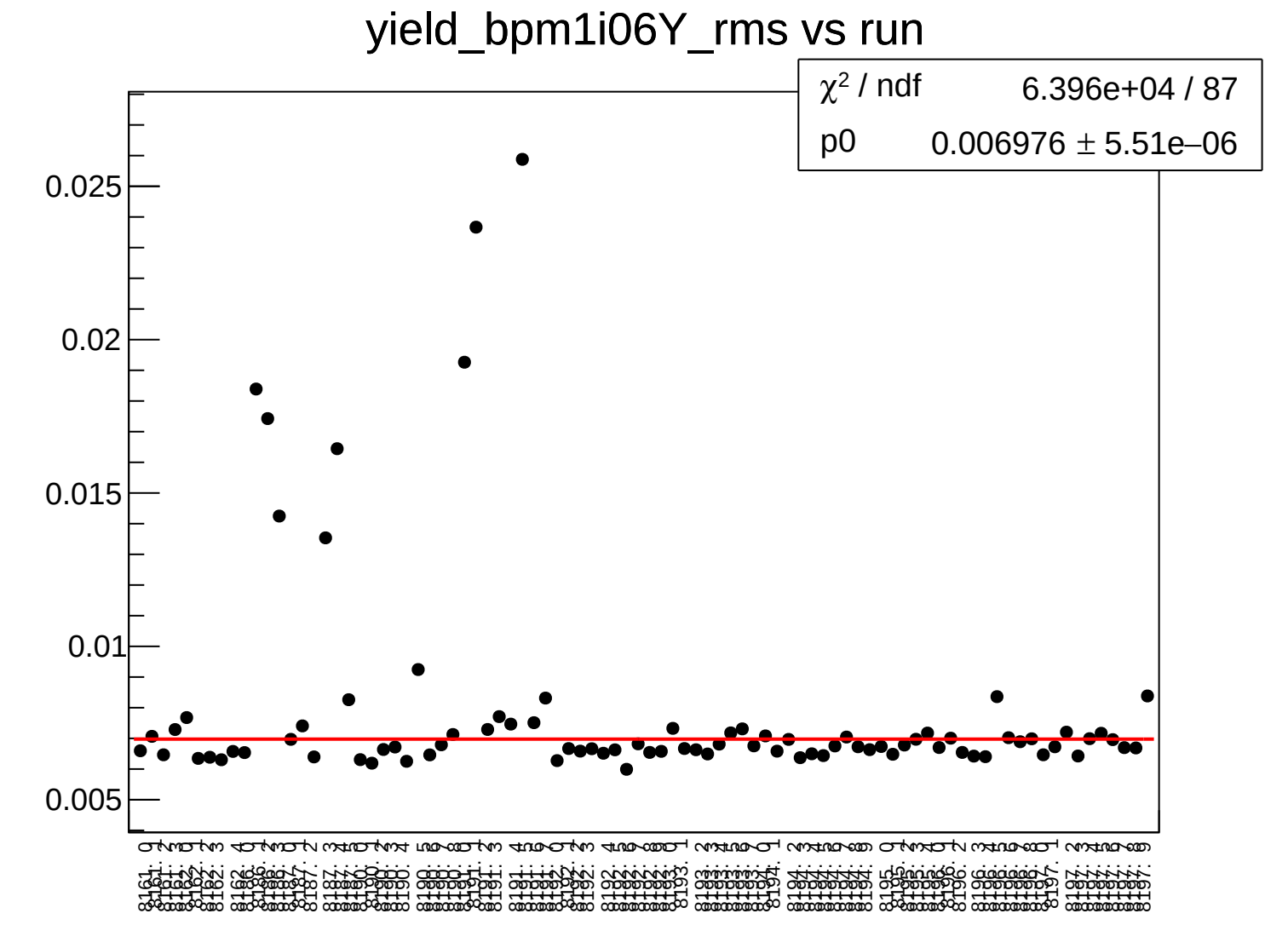

yield_bpm1i04Y_rms vs run
χ^2 / ndf 1.41e+05 / 87
p0 0.002386 ± 1.931e−06
0.012
0.01
0.008
0.006
0.004
0.002

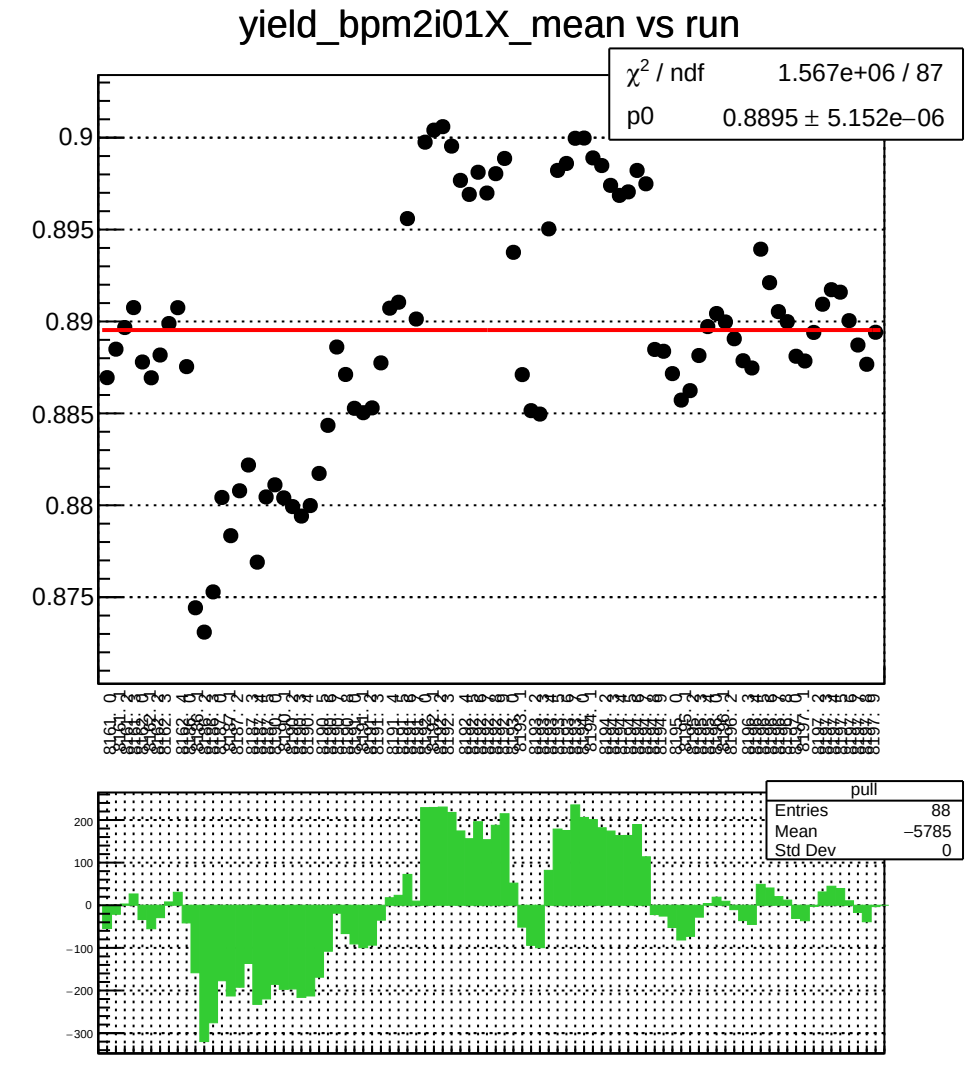

yield_bpm1i06X_mean vs run
χ² / ndf 9.251e+06 / 87
p0 1.078 ± 1.468e−05
1.18
1.16
1.14
1.12
1.1
1.08
1.06
1.04
1.02
pull
Entries 88
Mean 633
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

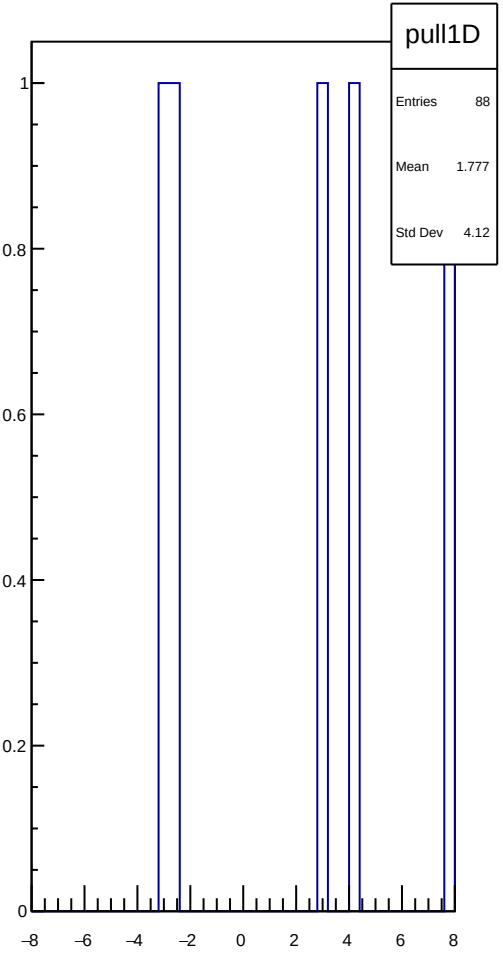

yield_bpm1i06X_rms vs run
χ^2 / ndf 4.732e+04 / 87
p0 0.01321 ± 1.038e–05
0.03
0.025
0.02
0.015
0.01

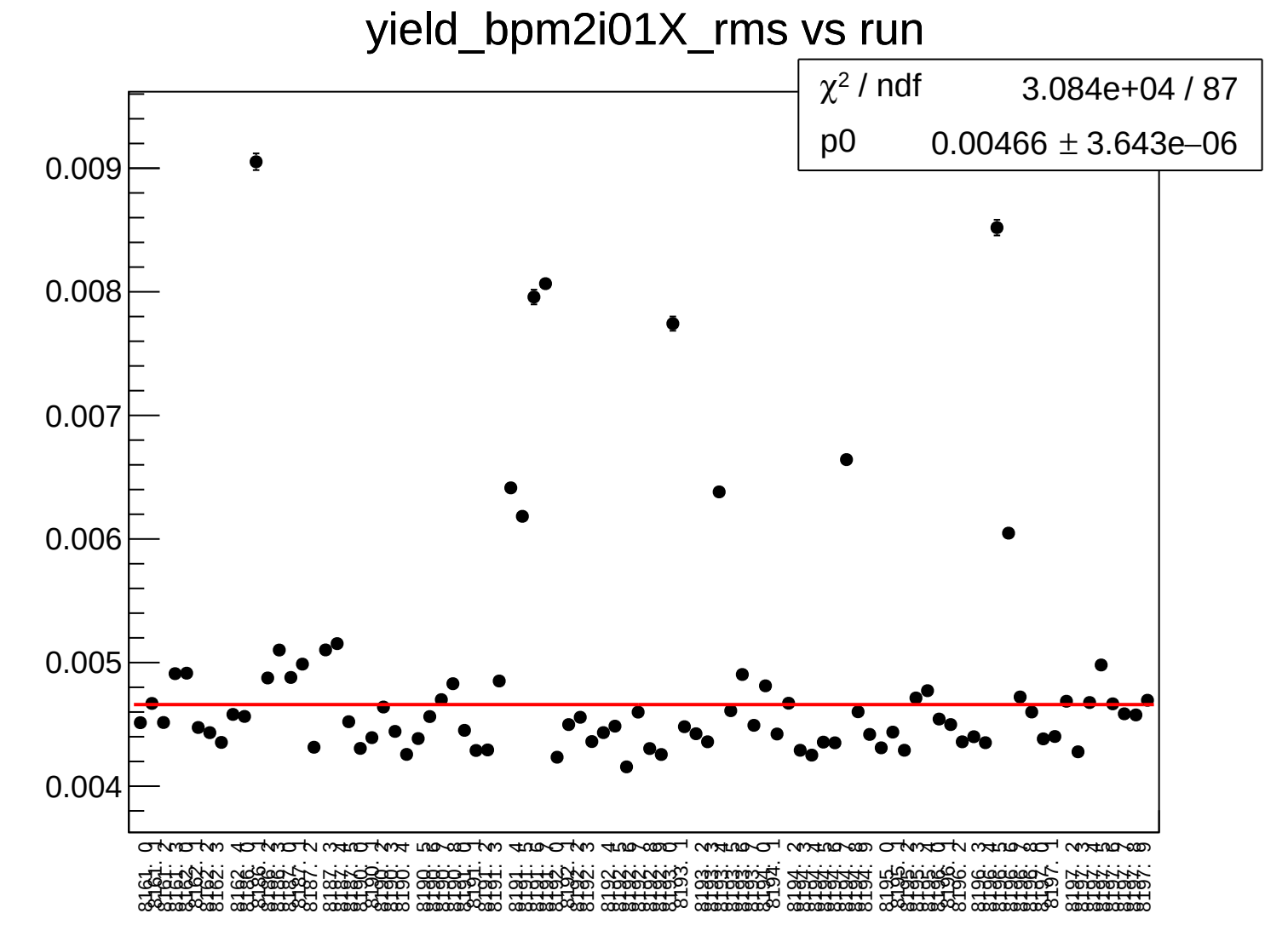

yield_bpm1i06Y_mean vs run
χ² / ndf 8.949e+06 / 87
p0 0.02694 ± 7.793e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean 2.843e+04
Std Dev 0
600
400
200
0
−200
−400

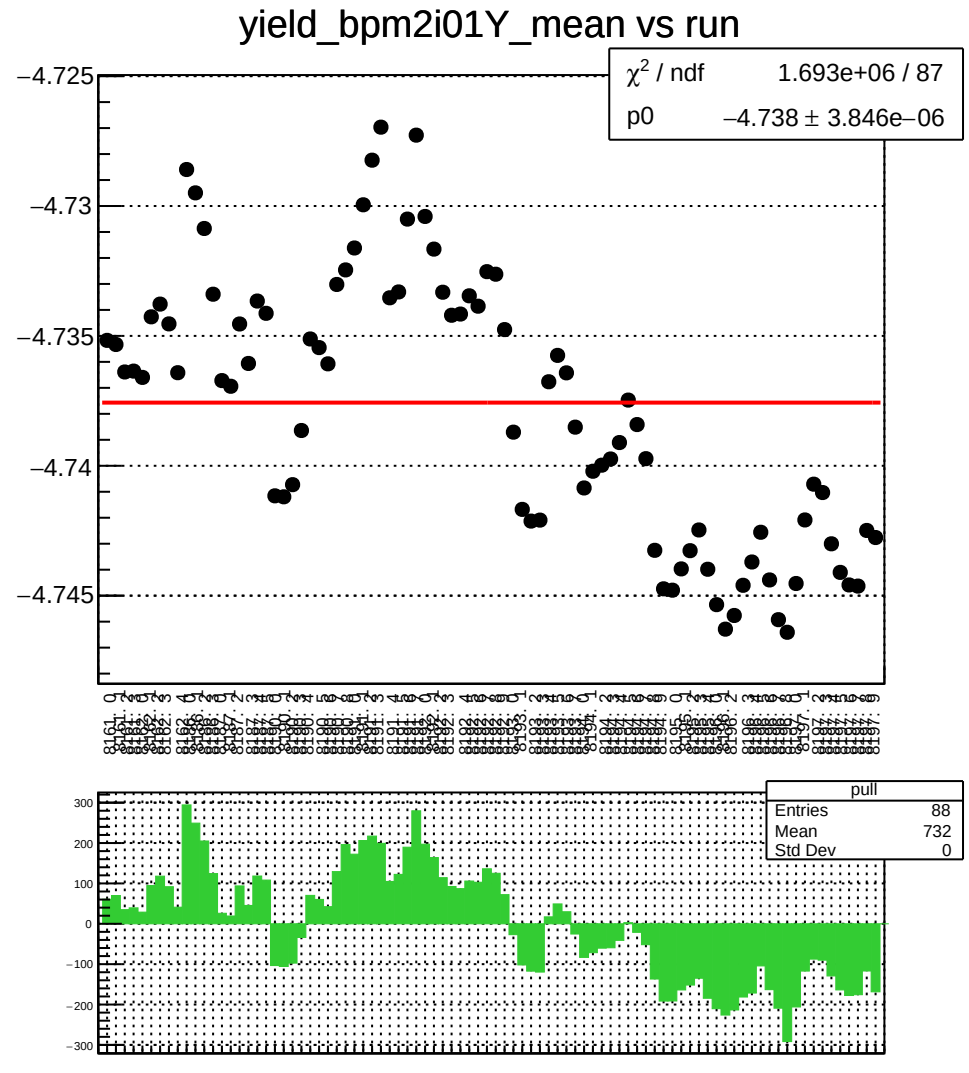

pull1D
Entries 88
Mean 7.109
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

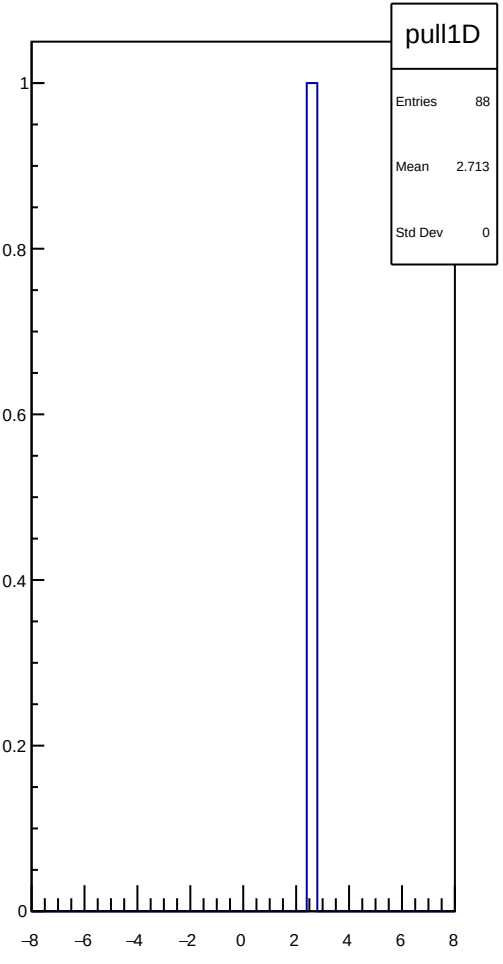

yield_bpm1i06Y_rms vs run
χ² / ndf 6.396e+04 / 87
p0 0.006976 ± 5.51e–06
0.025
0.02
0.015
0.01
0.005

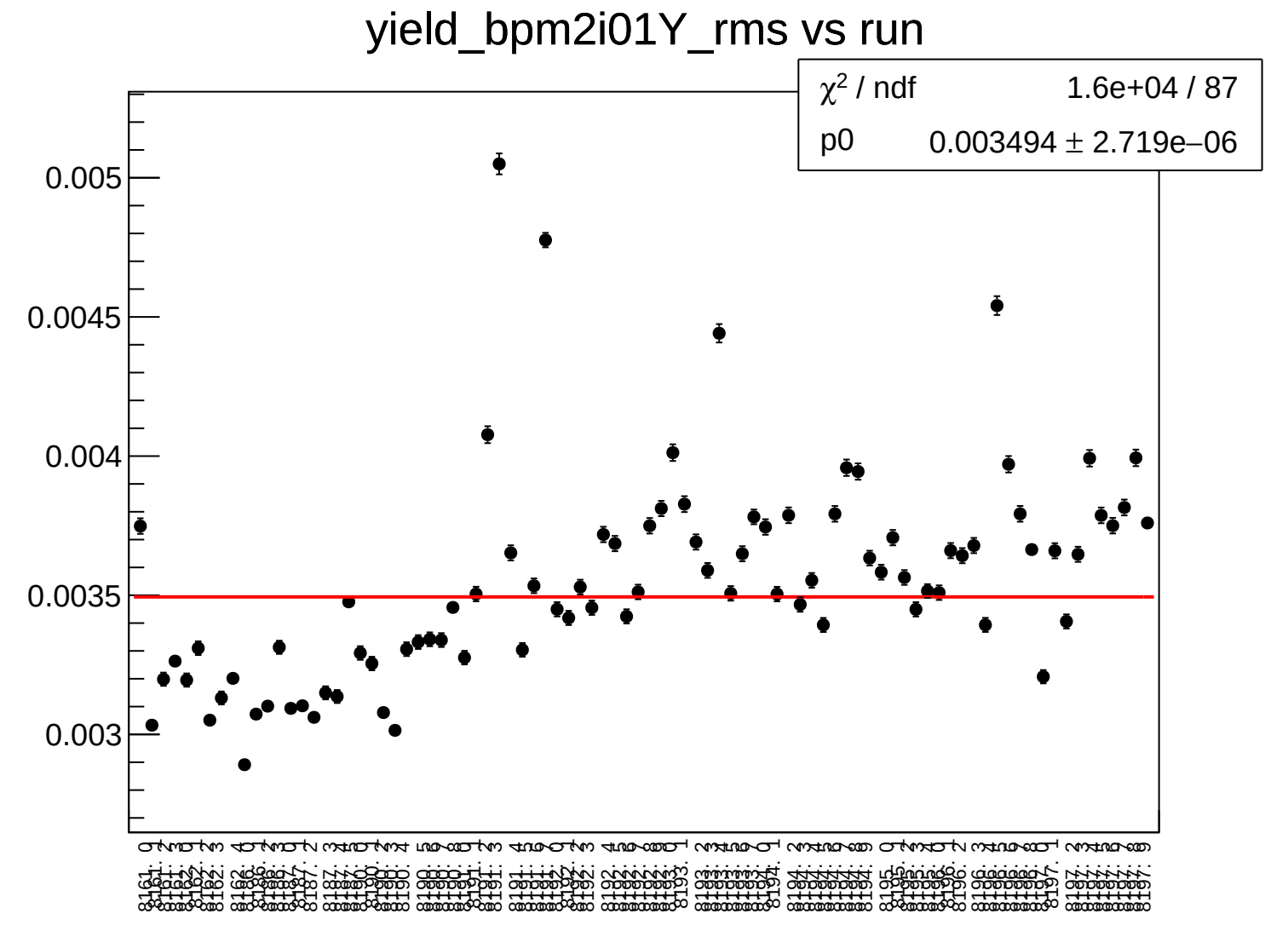

yield_bpm2i01X_mean vs run
χ² / ndf 1.567e+06 / 87
p0 0.8895 ± 5.152e−06
0.9
0.895
0.89
0.885
0.88
0.875
pull
Entries 88
Mean −5785
Std Dev 0
200
100
0
−100
−200
−300

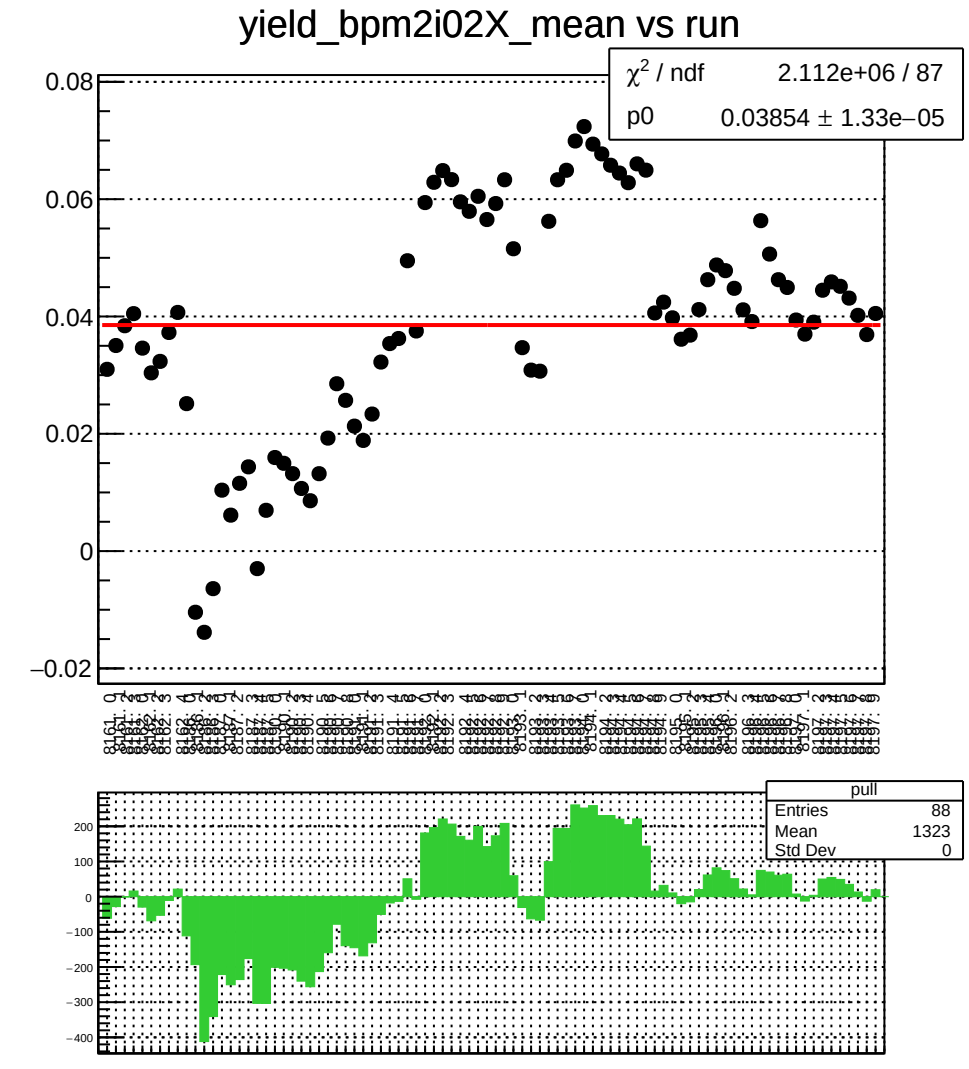

pull1D
Entries 88
Mean 1.777
Std Dev 4.12
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

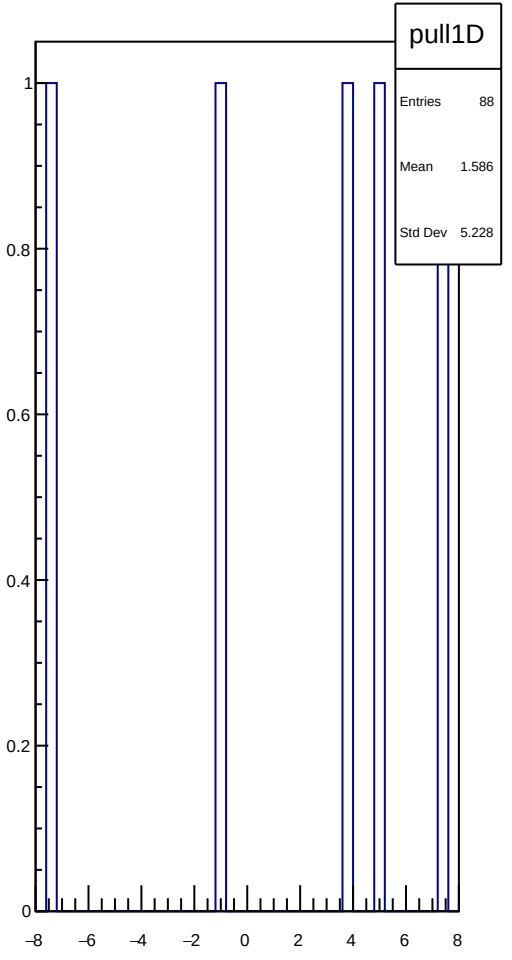

yield_bpm2i01X_rms vs run
χ² / ndf 3.084e+04 / 87
p0 0.00466 ± 3.643e–06
0.009
0.008
0.007
0.006
0.005
0.004

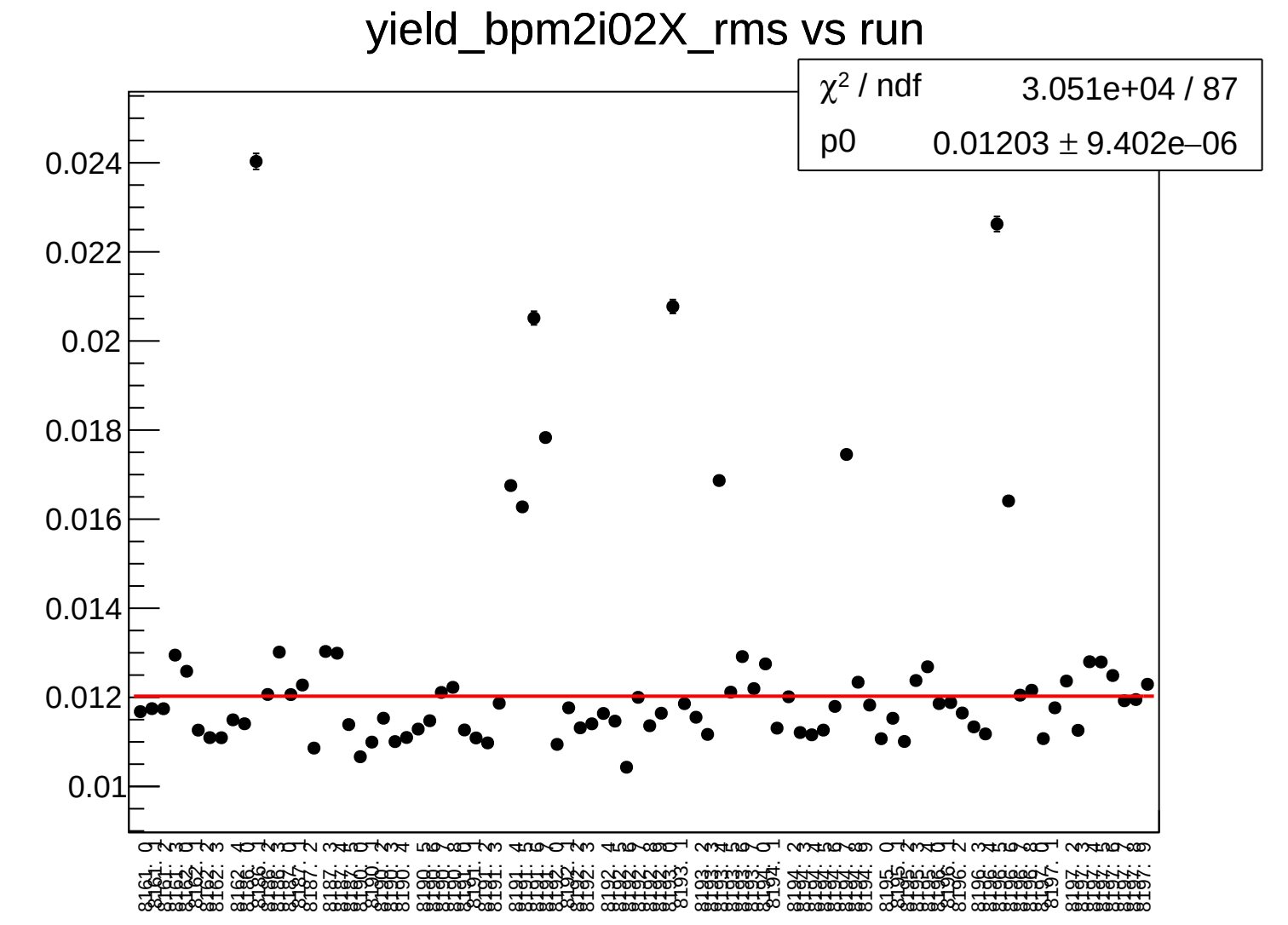

yield_bpm2i01Y_mean vs run
χ² / ndf 1.693e+06 / 87
p0 −4.738 ± 3.846e−06
−4.725
−4.73
−4.735
−4.74
−4.745
pull
Entries 88
Mean 732
Std Dev 0
300
200
100
0
−100
−200
−300

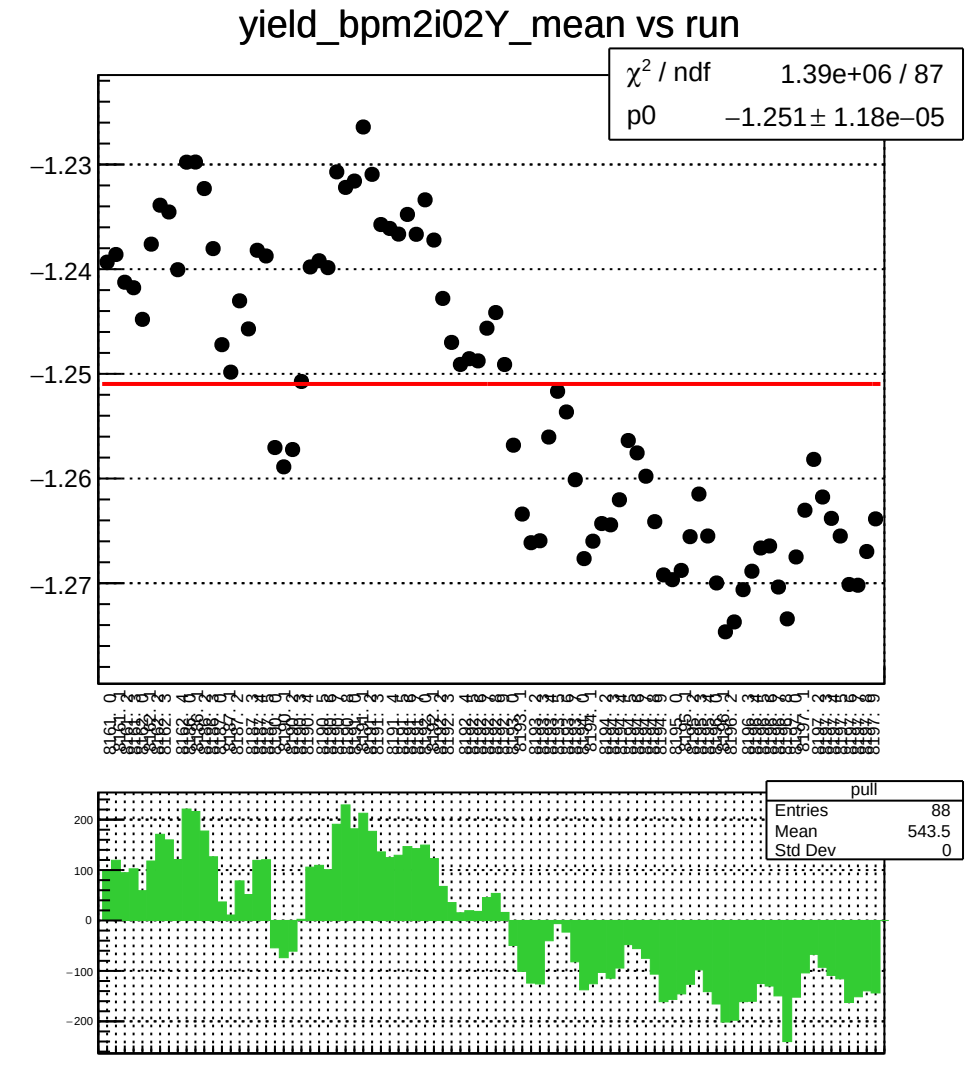

pull1D
Entries 88
Mean 2.713
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

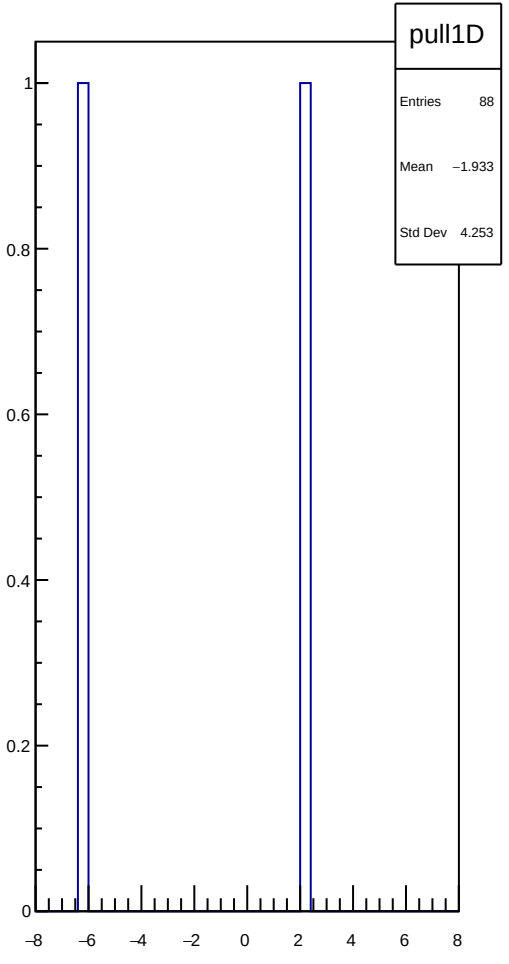

yield_bpm2i01Y_rms vs run
χ² / ndf 1.6e+04 / 87
p0 0.003494 ± 2.719e−06
0.005
0.0045
0.004
0.0035
0.003

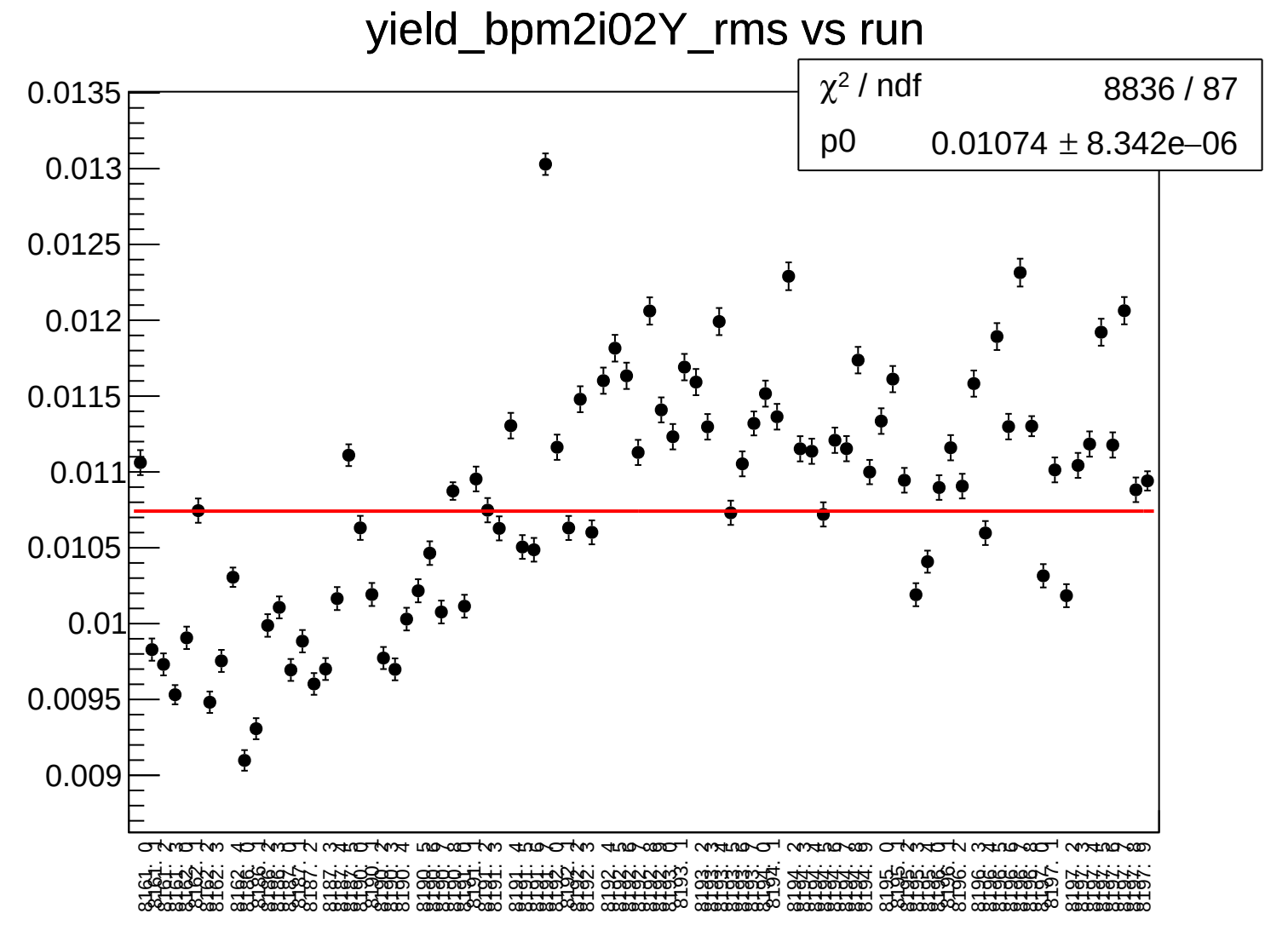

yield_bpm2i02X_mean vs run
χ² / ndf 2.112e+06 / 87
p0 0.03854 ± 1.33e−05
0.08
0.06
0.04
0.02
0
−0.02
pull
Entries 88
Mean 1323
Std Dev 0
200
100
0
−100
−200
−300
−400

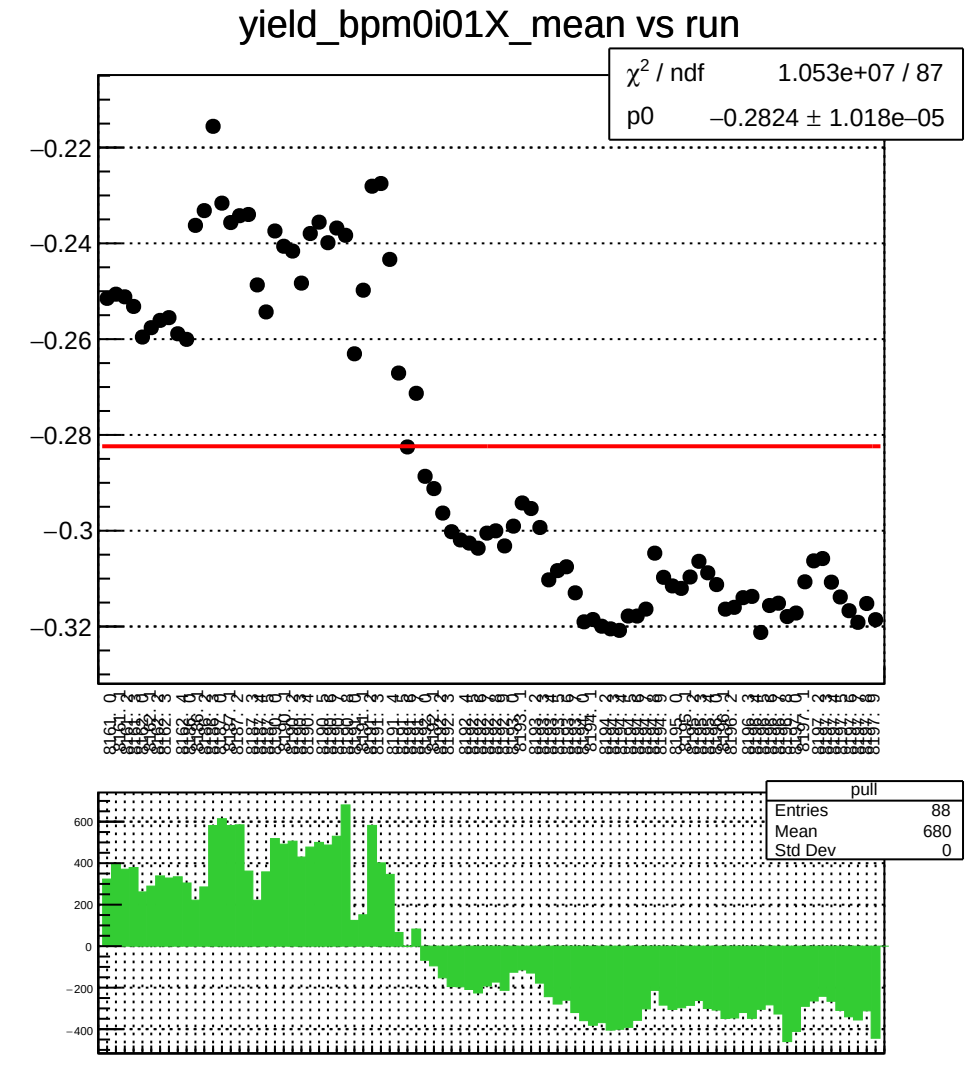

pull1D
Entries 88
Mean 1.586
Std Dev 5.228
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

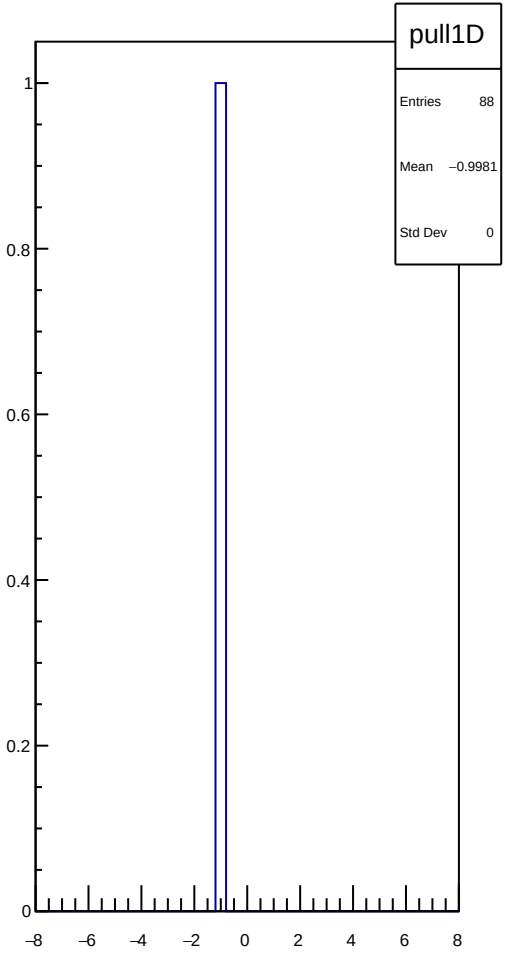

yield_bpm2i02X_rms vs run
χ² / ndf 3.051e+04 / 87
p0 0.01203 ± 9.402e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

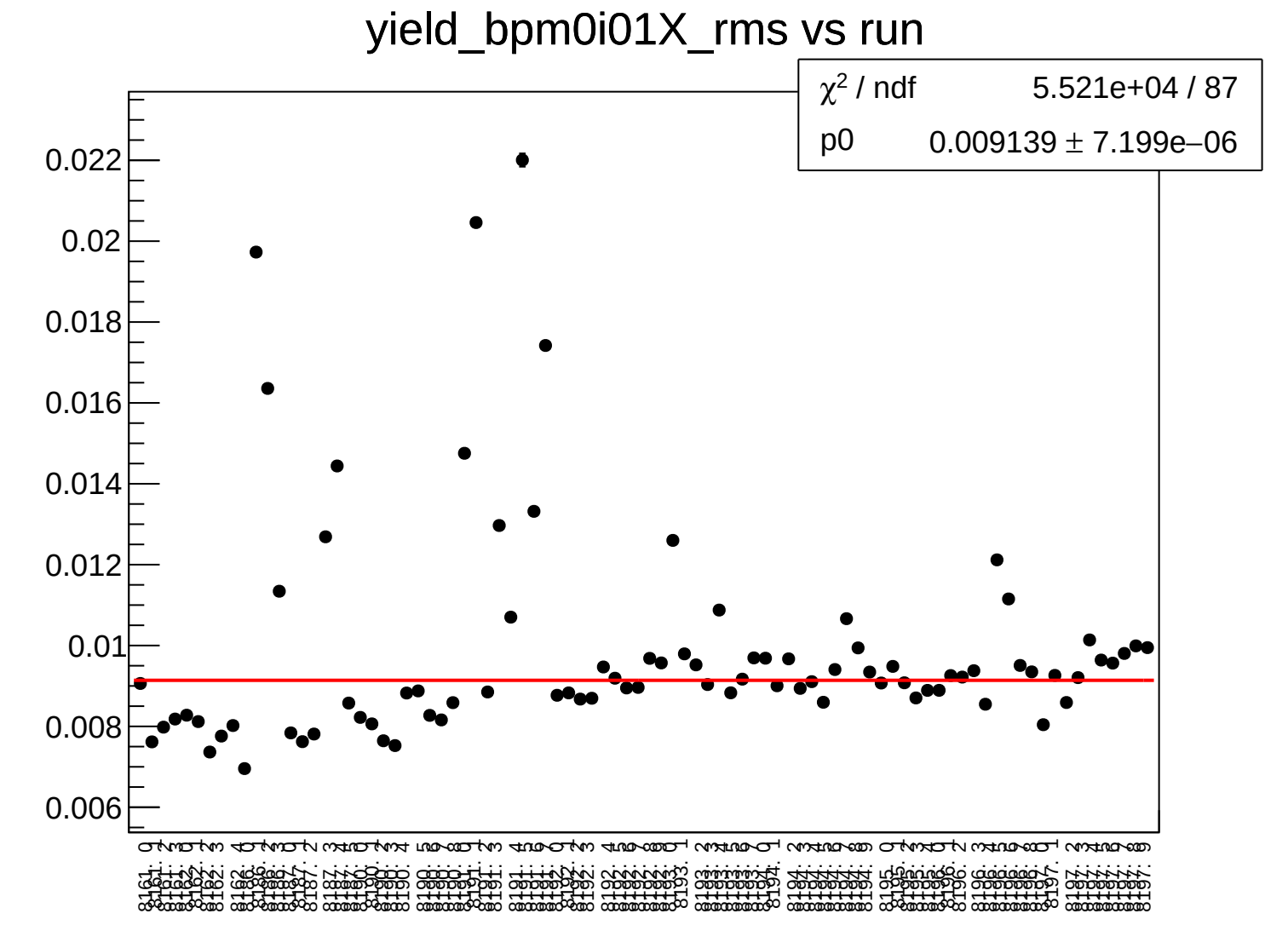

yield_bpm2i02Y_mean vs run
χ² / ndf 1.39e+06 / 87
p0 −1.251 ± 1.18e−05
−1.23
−1.24
−1.25
−1.26
−1.27
pull
Entries 88
Mean 543.5
Std Dev 0
200
100
0
−100
−200

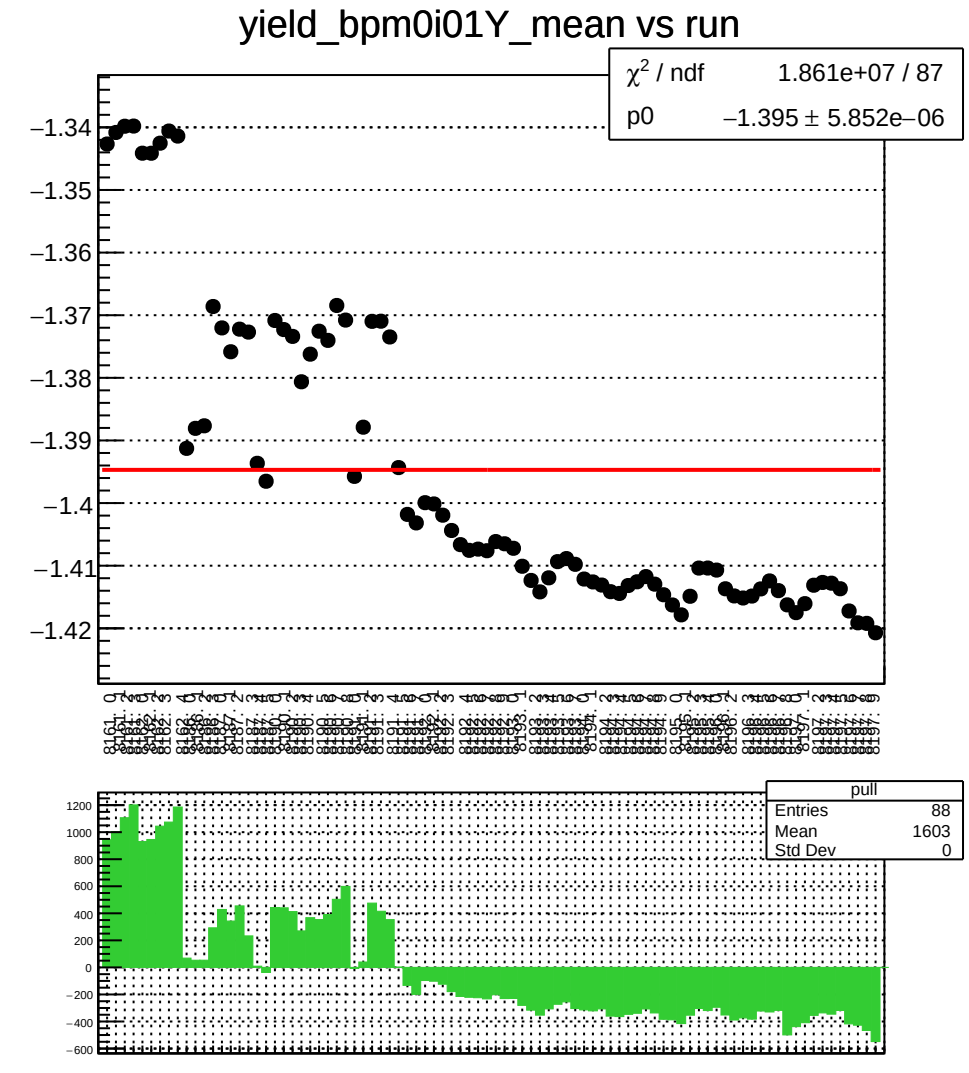

pull1D
Entries 88
Mean −1.933
Std Dev 4.253
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

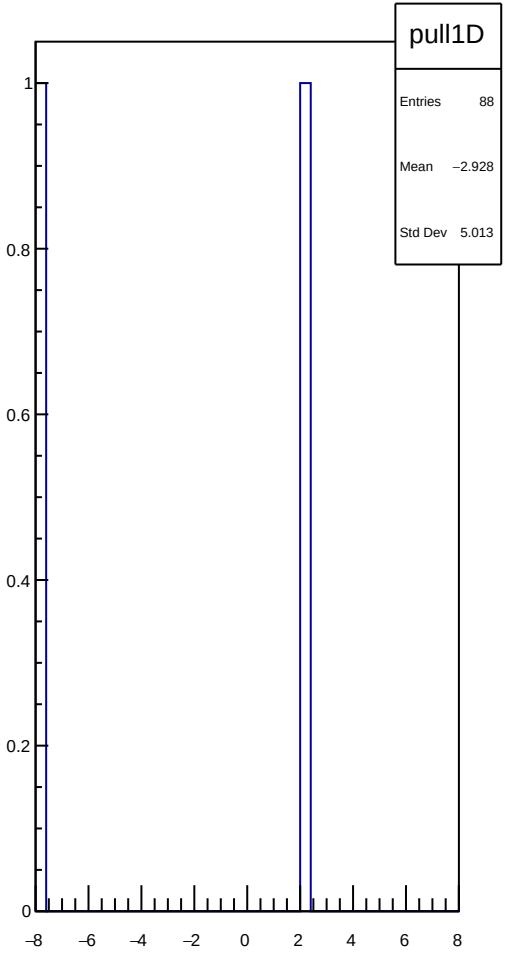

yield_bpm2i02Y_rms vs run
χ² / ndf 8836 / 87
p0 0.01074 ± 8.342e–06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

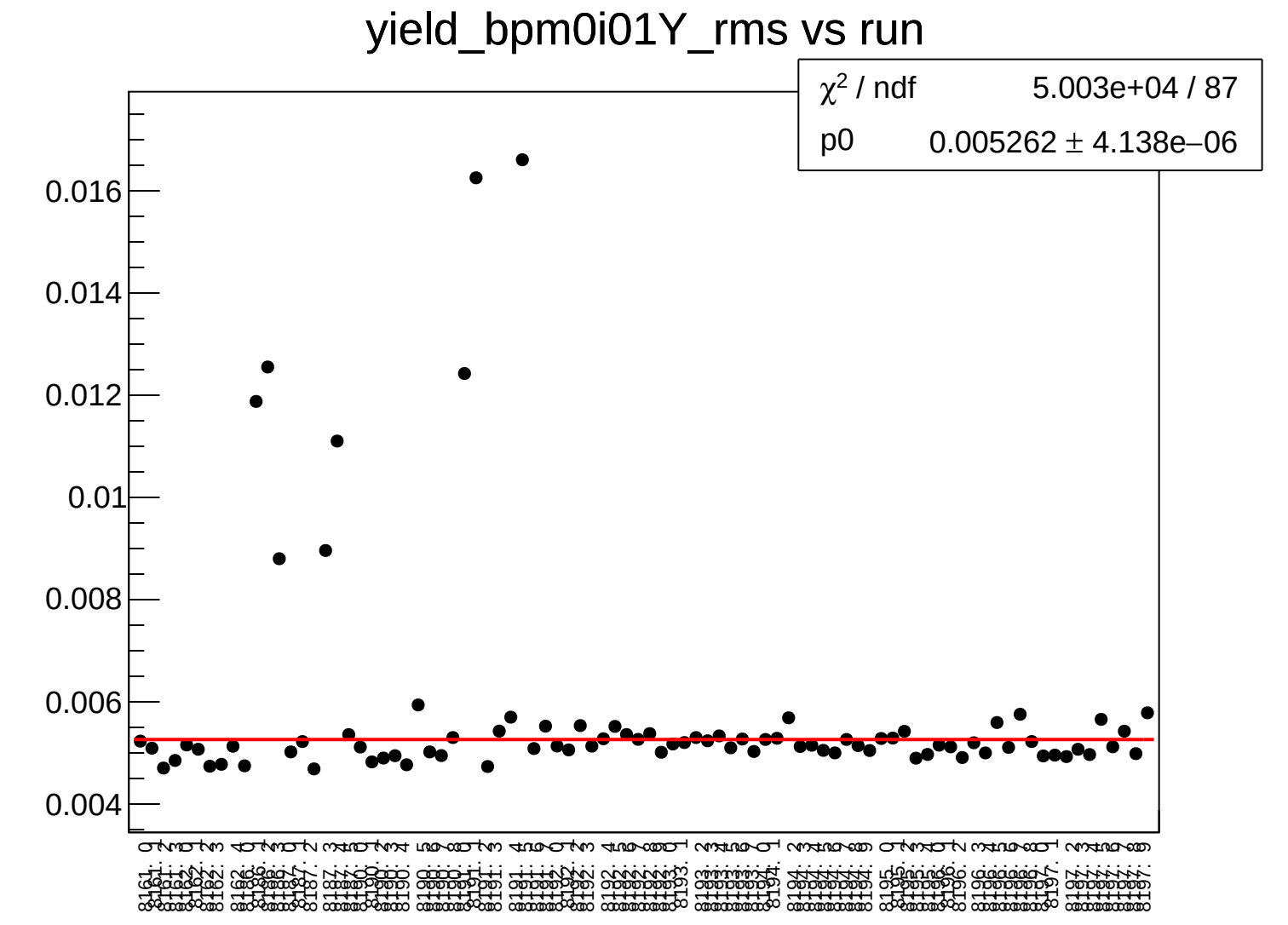

yield_bpm0i01X_mean vs run
χ² / ndf 1.053e+07 / 87
p0 −0.2824 ± 1.018e−05
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 88
Mean 680
Std Dev 0
600
400
200
0
−200
−400

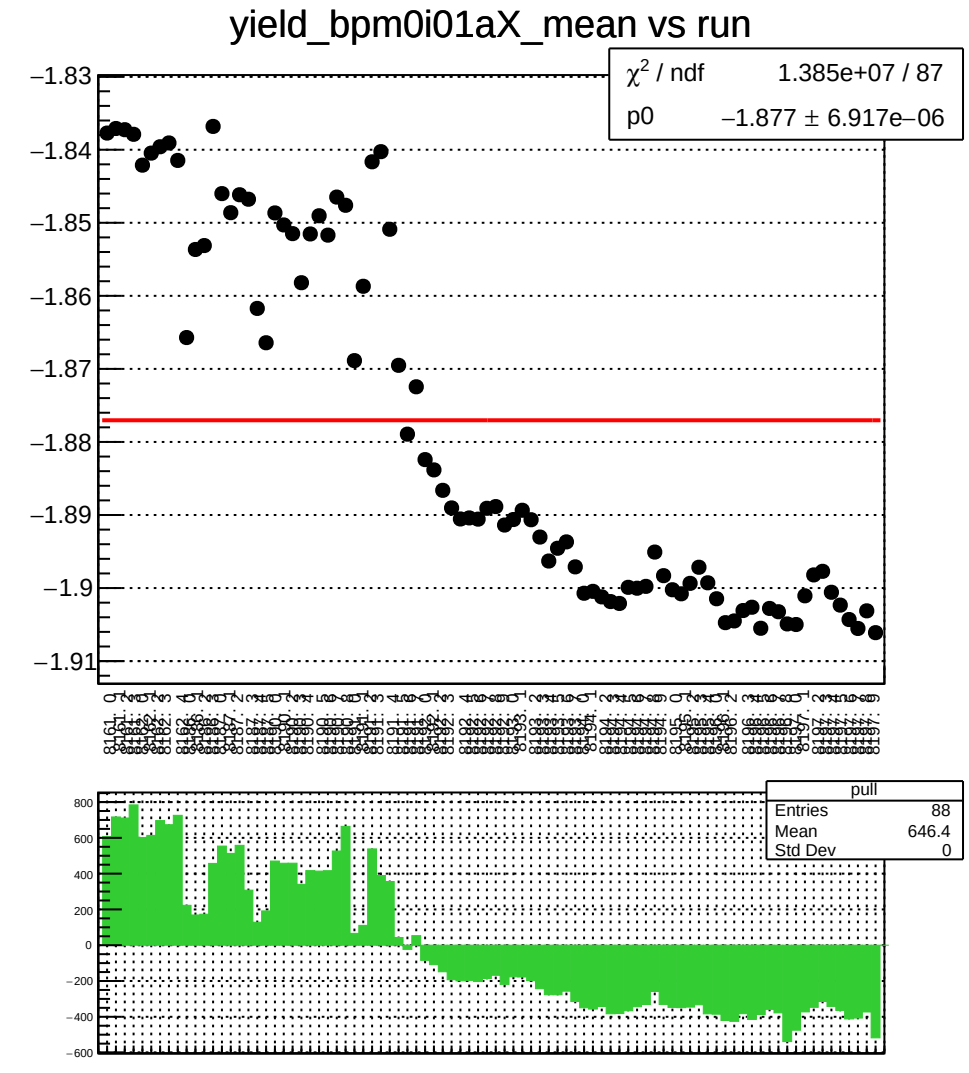

pull1D
Entries 88
Mean −0.9981
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

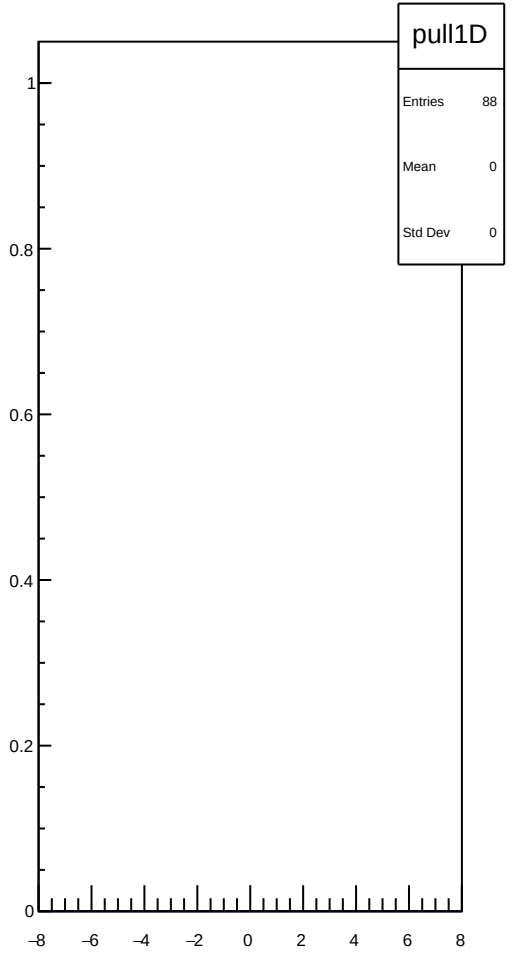

yield_bpm0i01X_rms vs run
χ^2 / ndf 5.521e+04 / 87
p0 0.009139 ± 7.199e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006


yield_bpm0i01Y_mean vs run
χ² / ndf 1.861e+07 / 87
p0 −1.395 ± 5.852e−06
−1.34
−1.35
−1.36
−1.37
−1.38
−1.39
−1.4
−1.41
−1.42
pull
Entries 88
Mean 1603
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600


pull1D
Entries 88
Mean −2.928
Std Dev 5.013
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 5.003e+04 / 87
p0 0.005262 ± 4.138e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004


yield_bpm0i01aX_mean vs run
χ² / ndf 1.385e+07 / 87
p0 −1.877 ± 6.917e−06
−1.83
−1.84
−1.85
−1.86
−1.87
−1.88
−1.89
−1.9
−1.91
pull
Entries 88
Mean 646.4
Std Dev 0
800
600
400
200
0
−200
−400
−600


pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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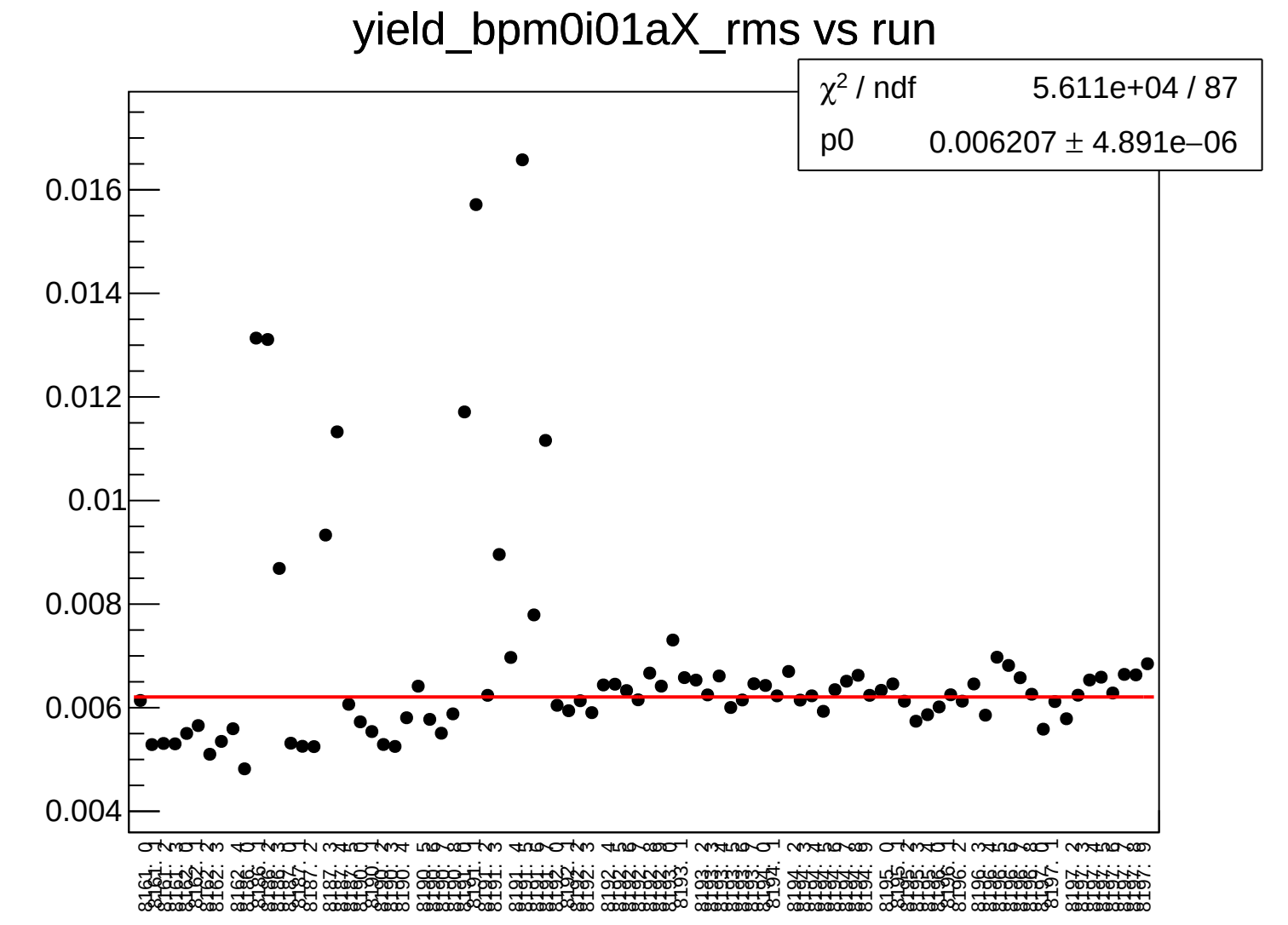
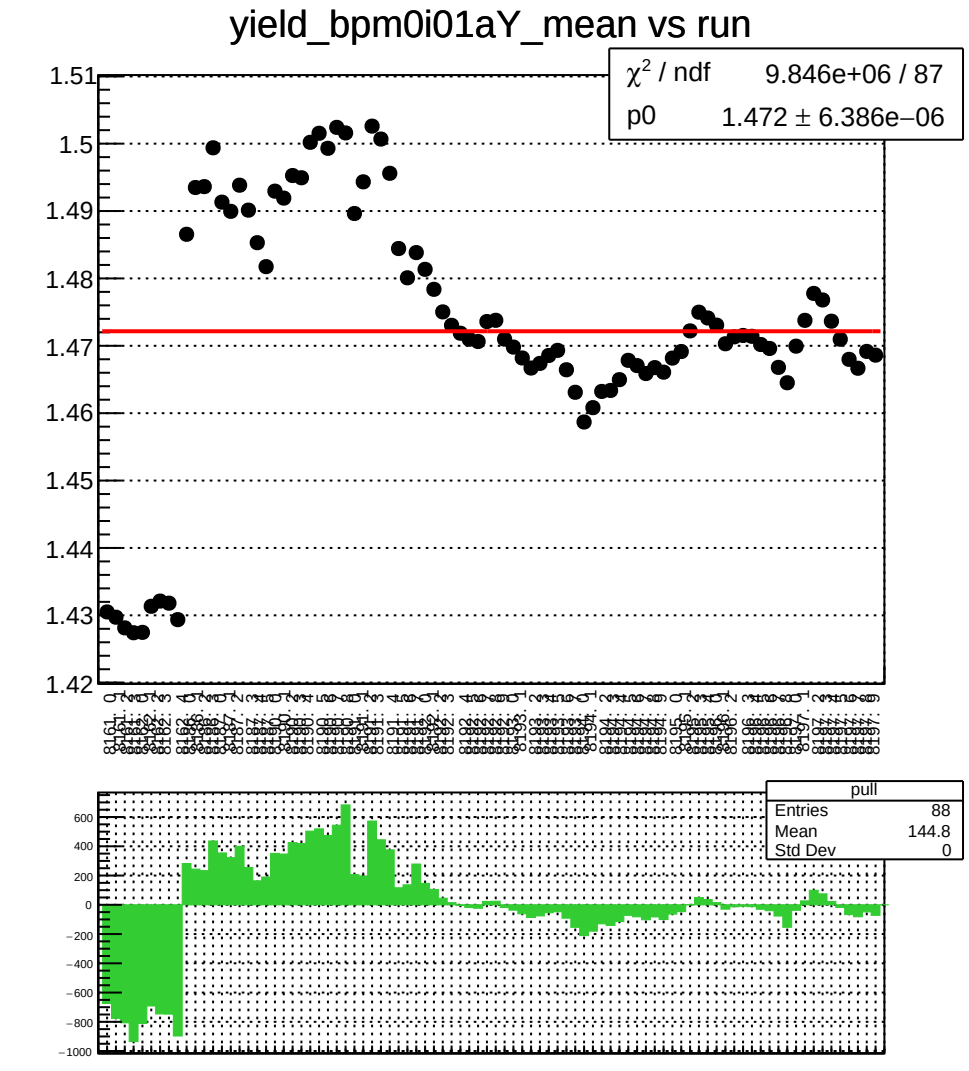
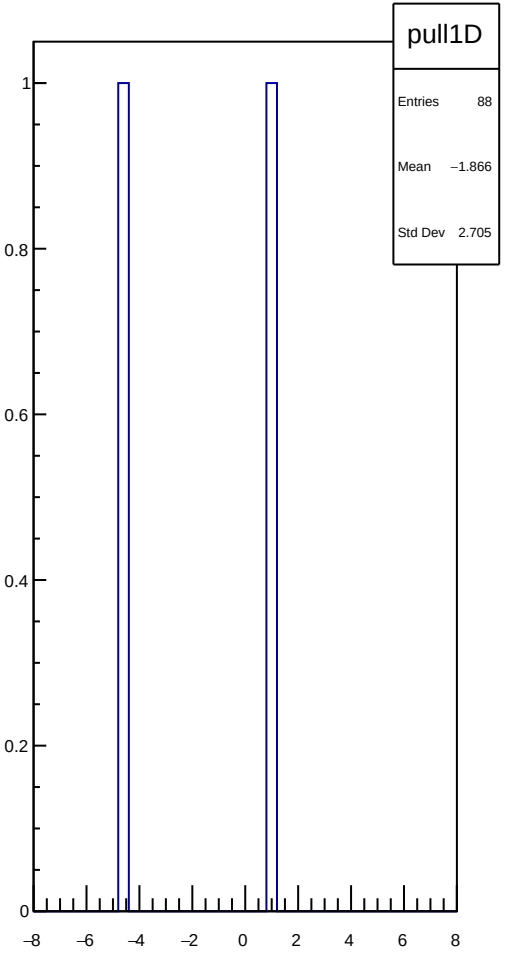
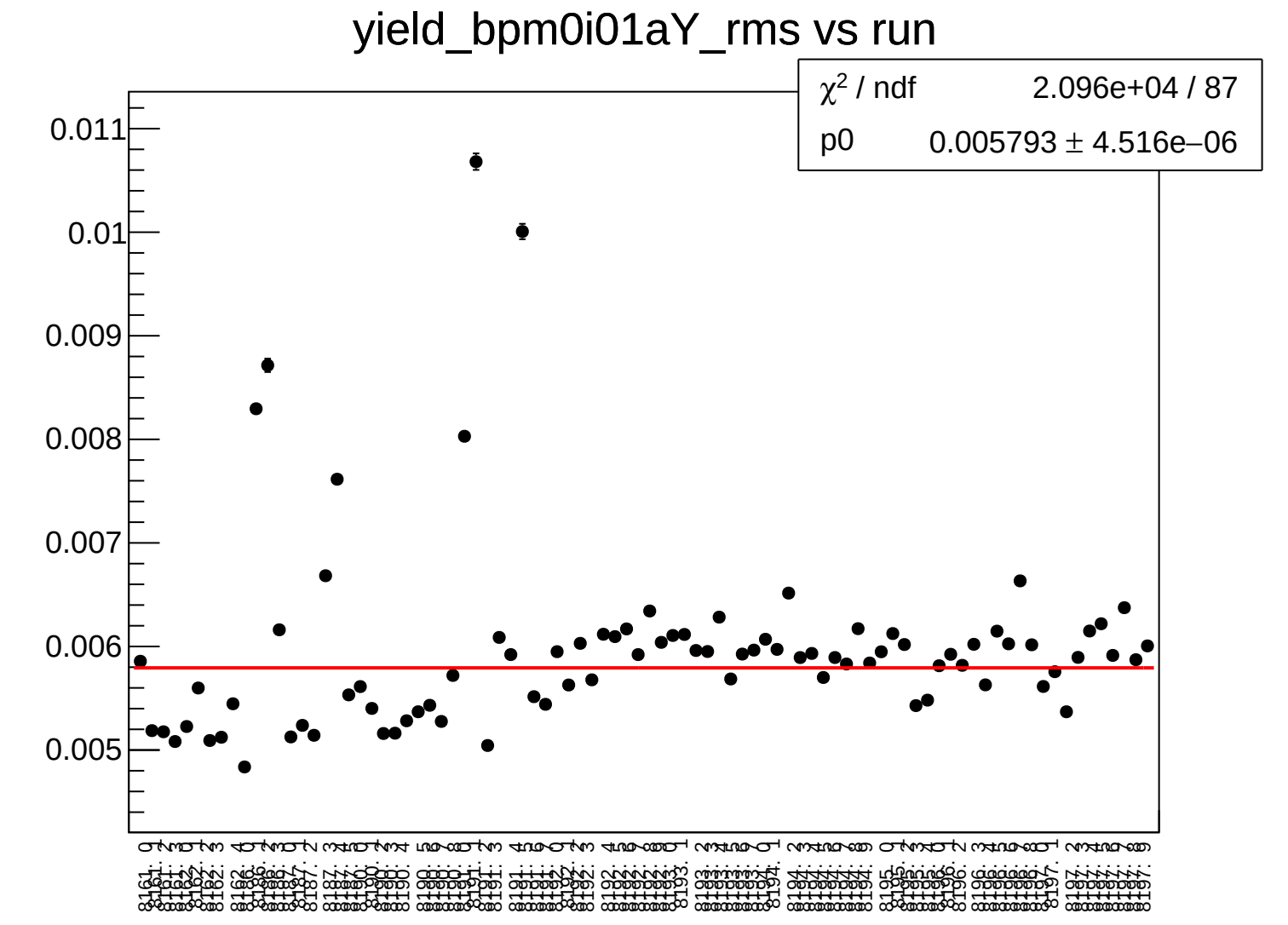
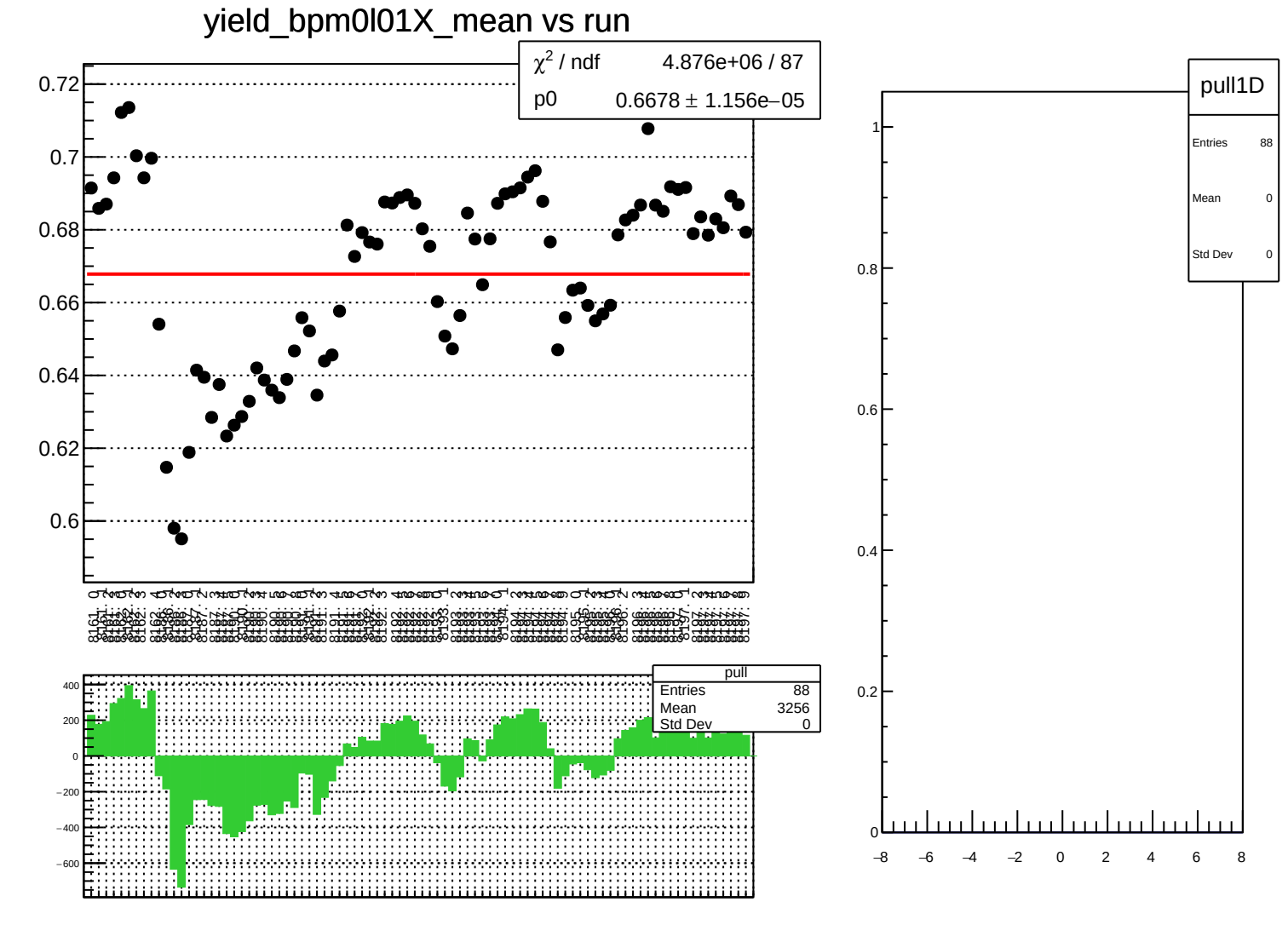
0
2
4
6
8

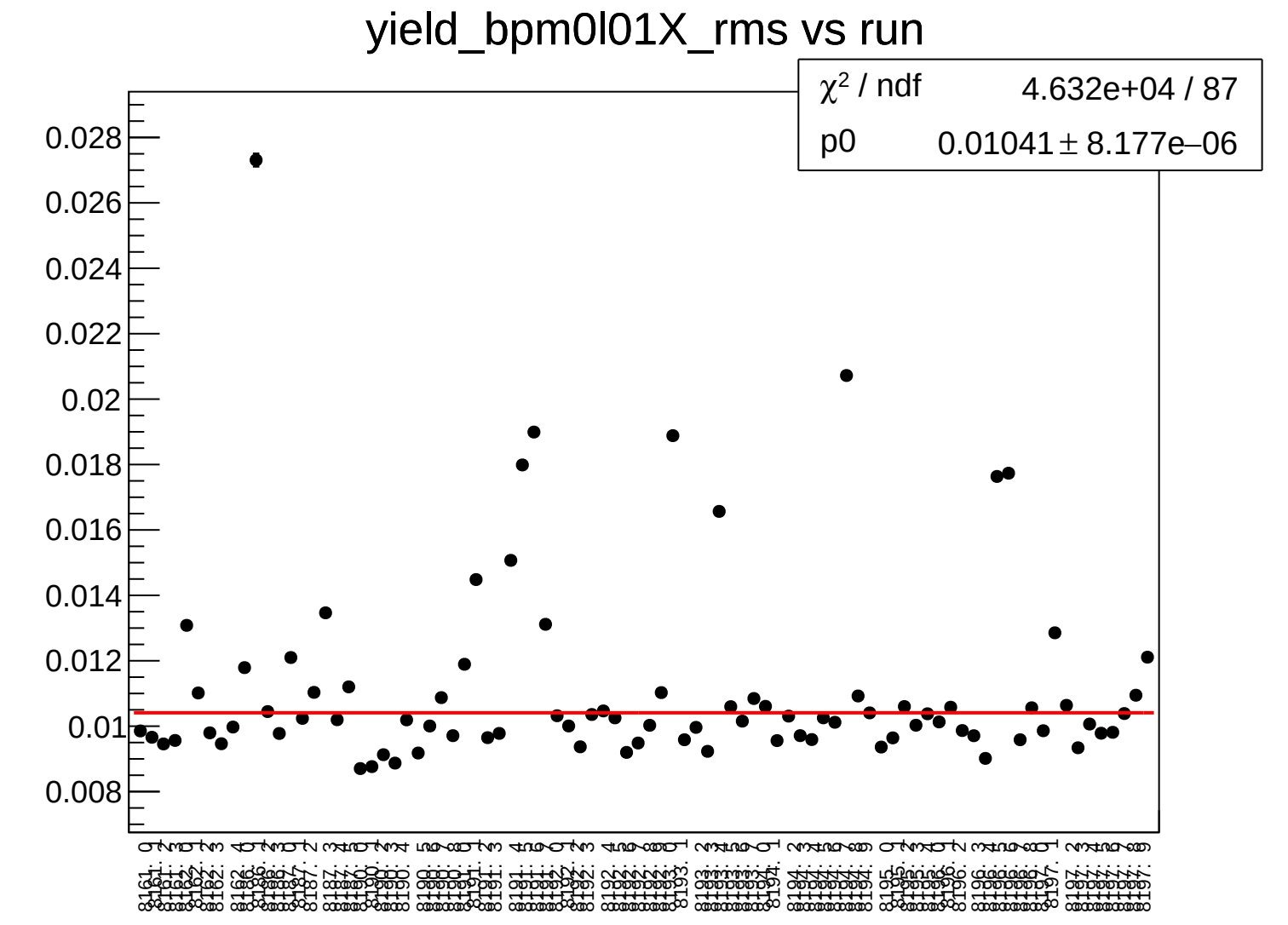

yield_bpm0i01aX_rms vs run
χ^2 / ndf 5.611e+04 / 87
p0 0.006207 ± 4.891e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

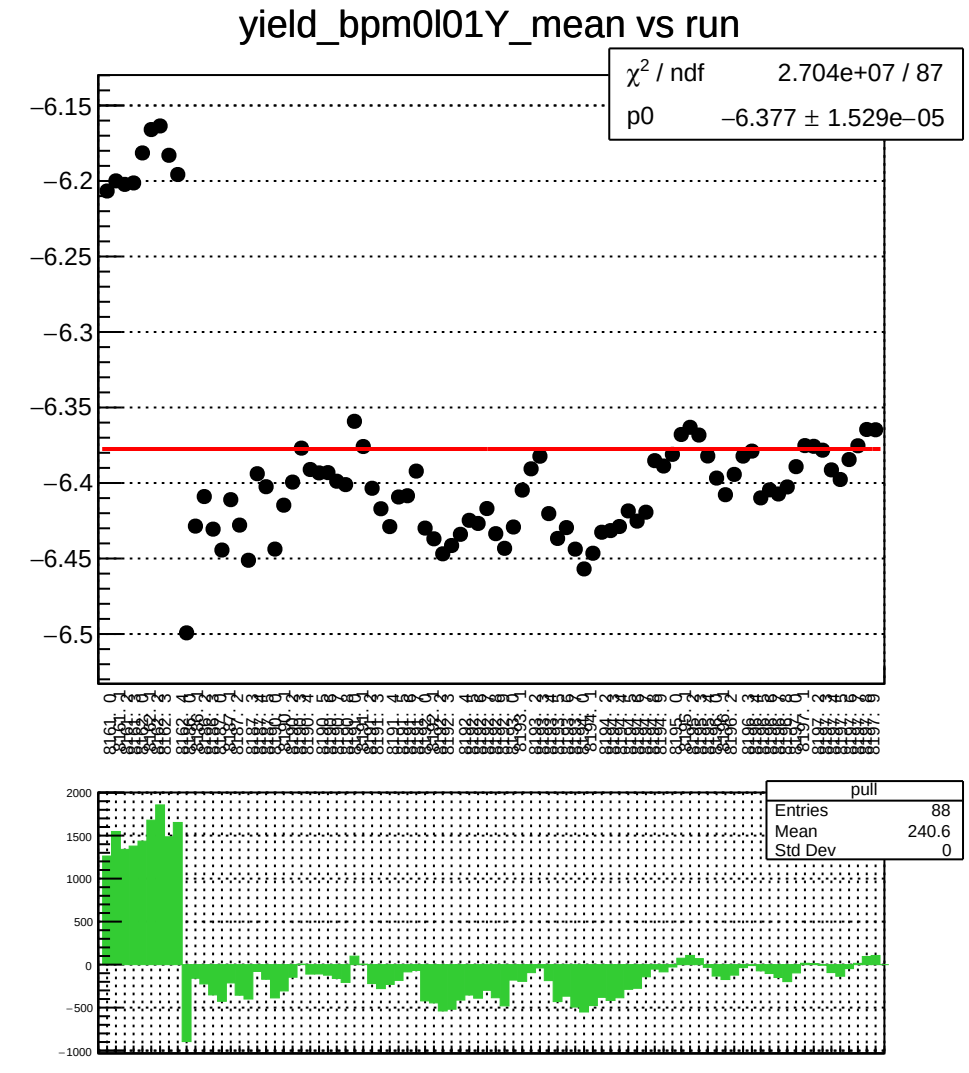

yield_bpm0i01aY_mean vs run
χ² / ndf 9.846e+06 / 87
p0 1.472 ± 6.386e−06
pull
Entries 88
Mean 144.8
Std Dev 0

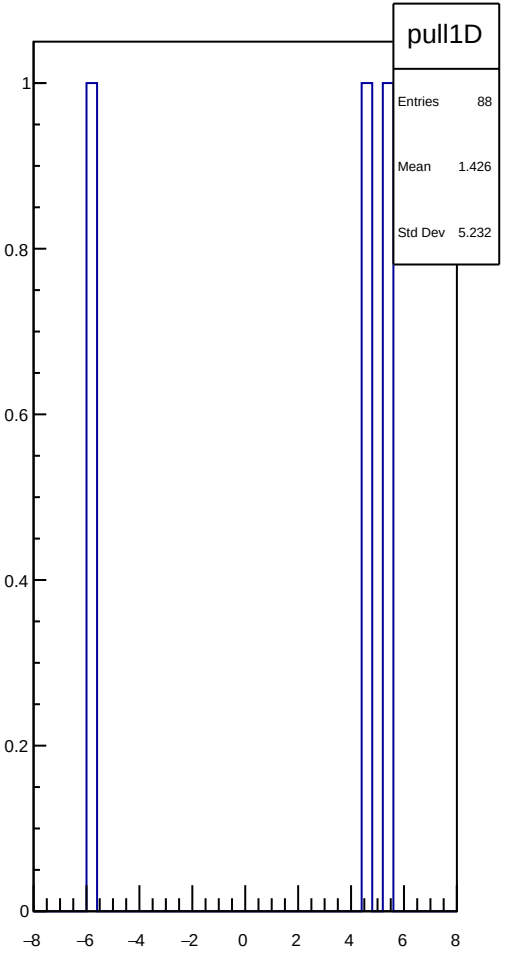

pull1D
Entries 88
Mean −1.866
Std Dev 2.705


yield_bpm0i01aY_rms vs run
χ² / ndf 2.096e+04 / 87
p0 0.005793 ± 4.516e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005


yield_bpm0l01X_mean vs run
χ² / ndf 4.876e+06 / 87
p0 0.6678 ± 1.156e−05
0.72
0.7
0.68
0.66
0.64
0.62
0.6
pull
Entries 88
Mean 3256
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l01X_rms vs run
χ^2 / ndf 4.632e+04 / 87
p0 0.01041 ± 8.177e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008


yield_bpm0l01Y_mean vs run
χ² / ndf 2.704e+07 / 87
p0 −6.377 ± 1.529e−05
−6.15
−6.2
−6.25
−6.3
−6.35
−6.4
−6.45
−6.5
pull
Entries 88
Mean 240.6
Std Dev 0
2000
1500
1000
500
0
−500
−1000


pull1D
Entries 88
Mean 1.426
Std Dev 5.232
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
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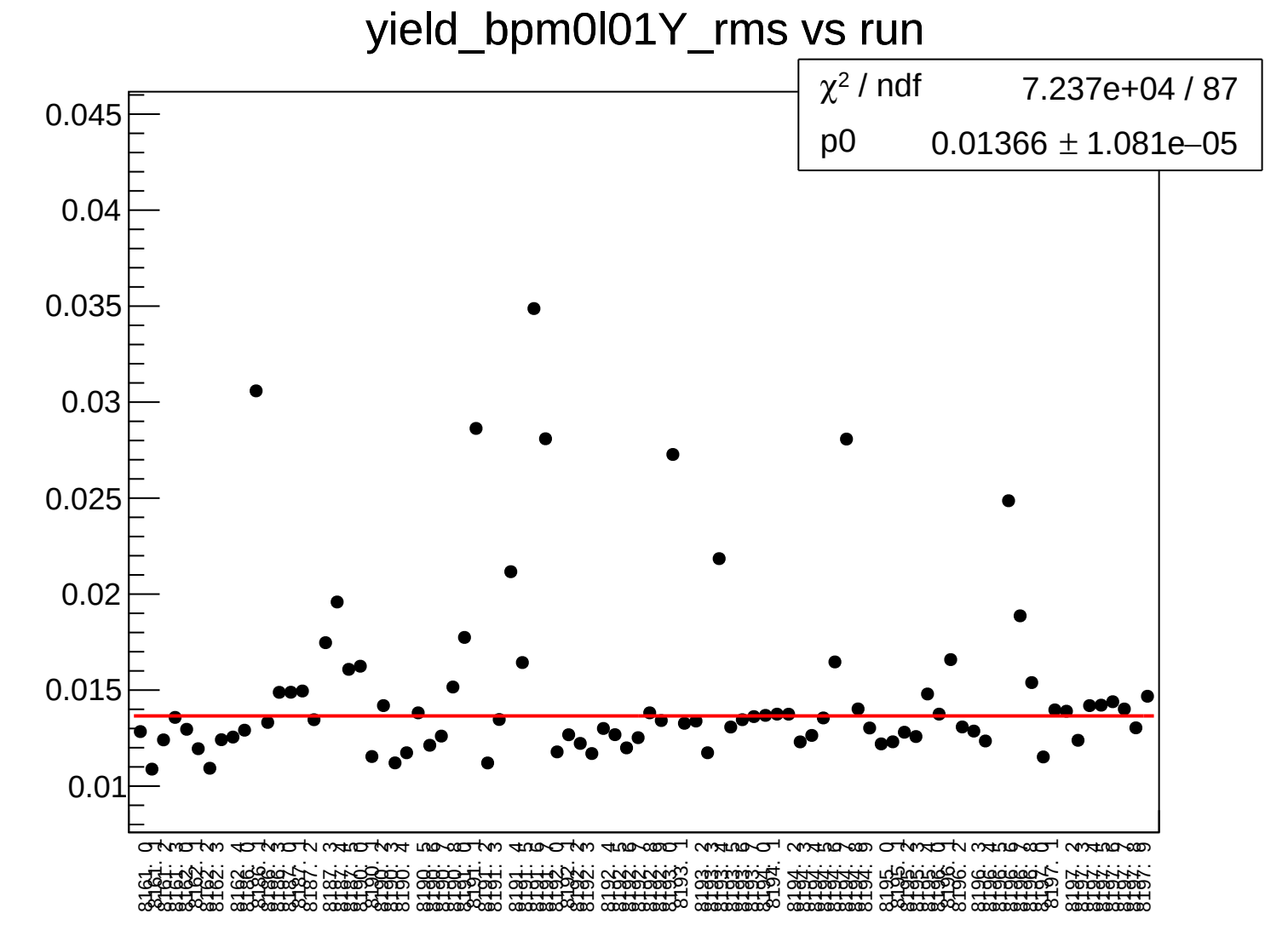
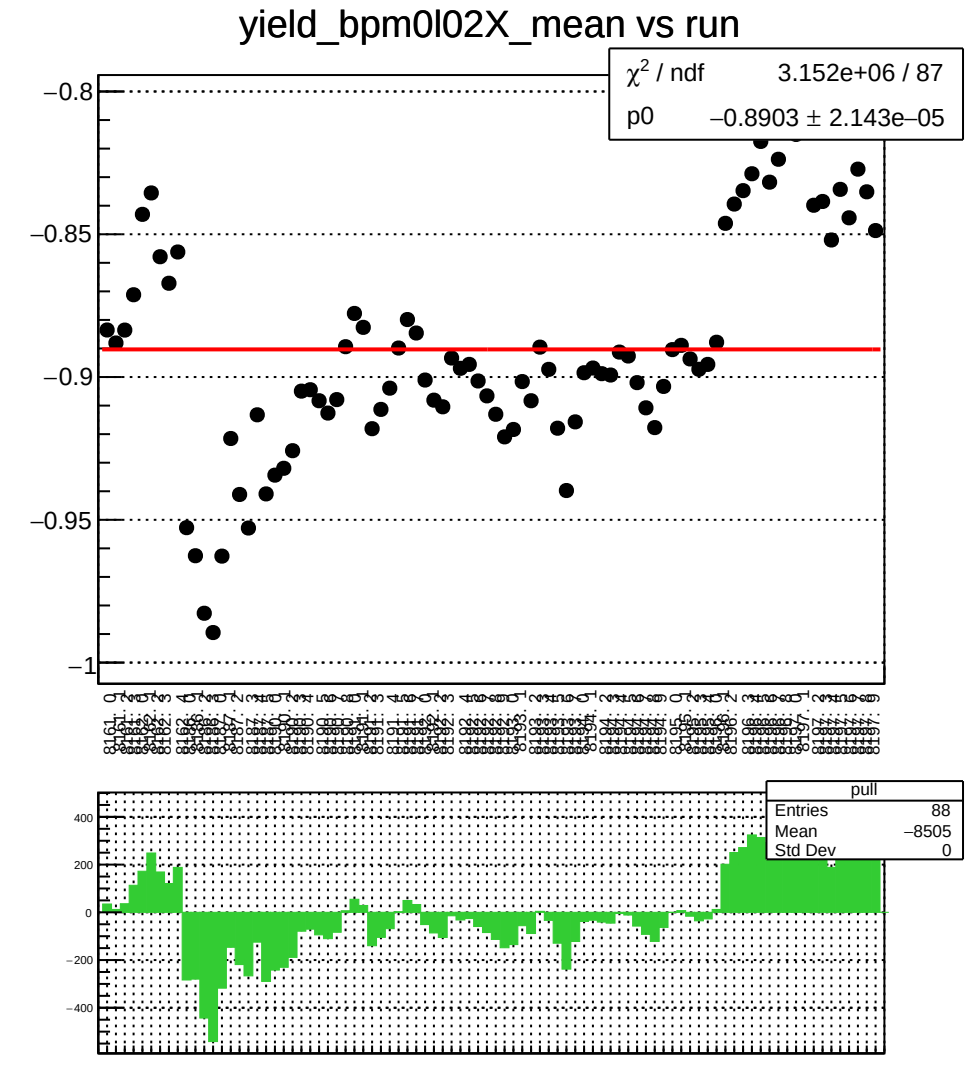
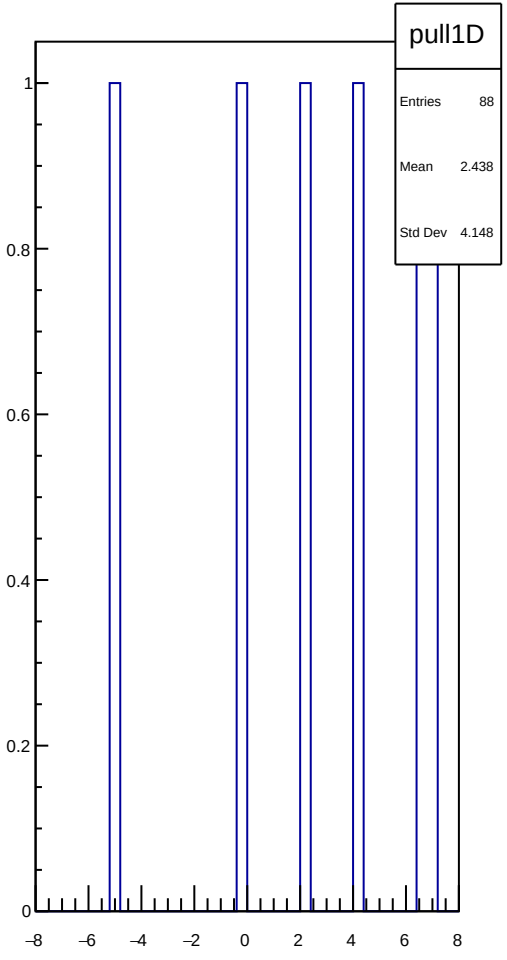
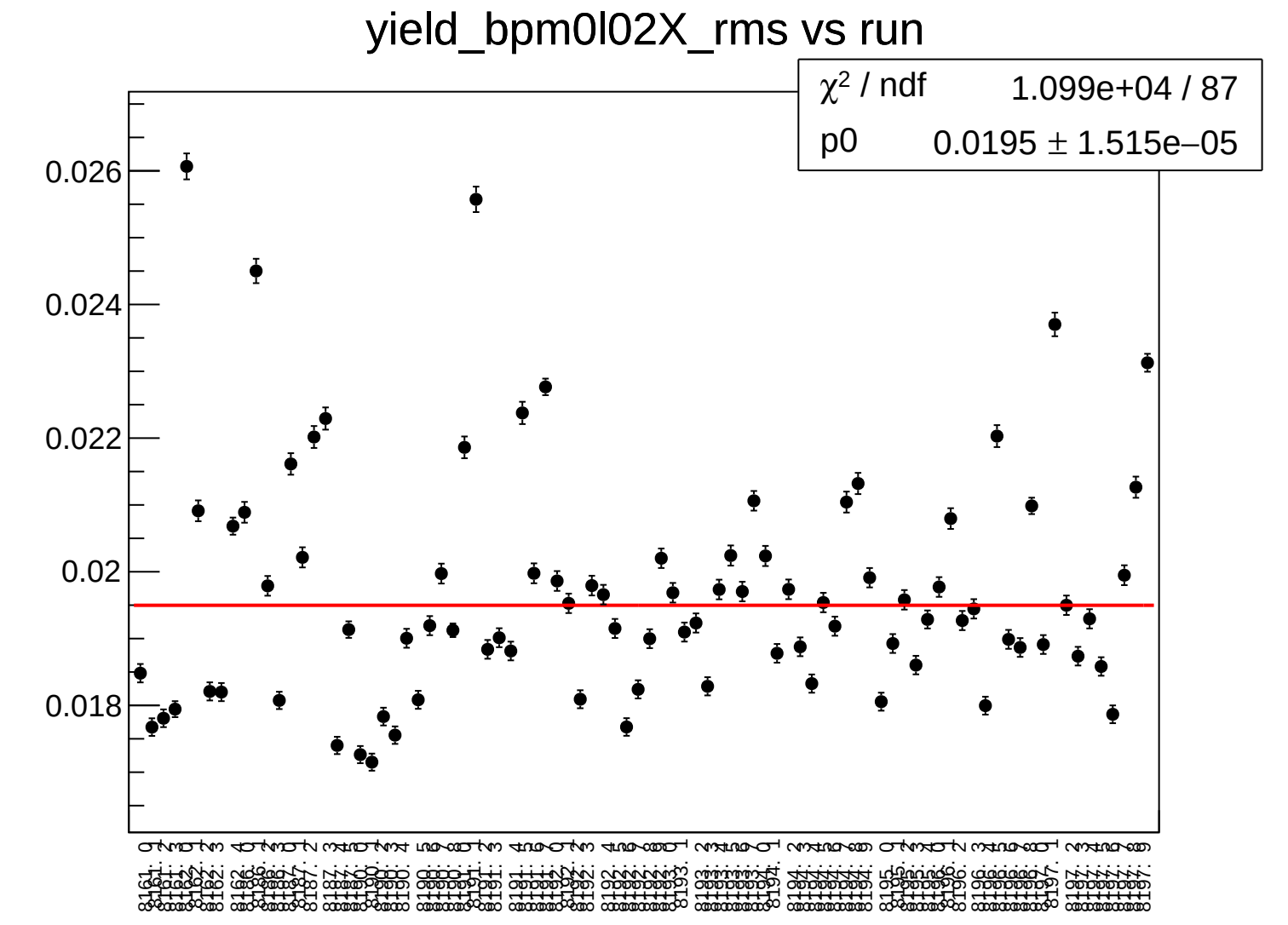
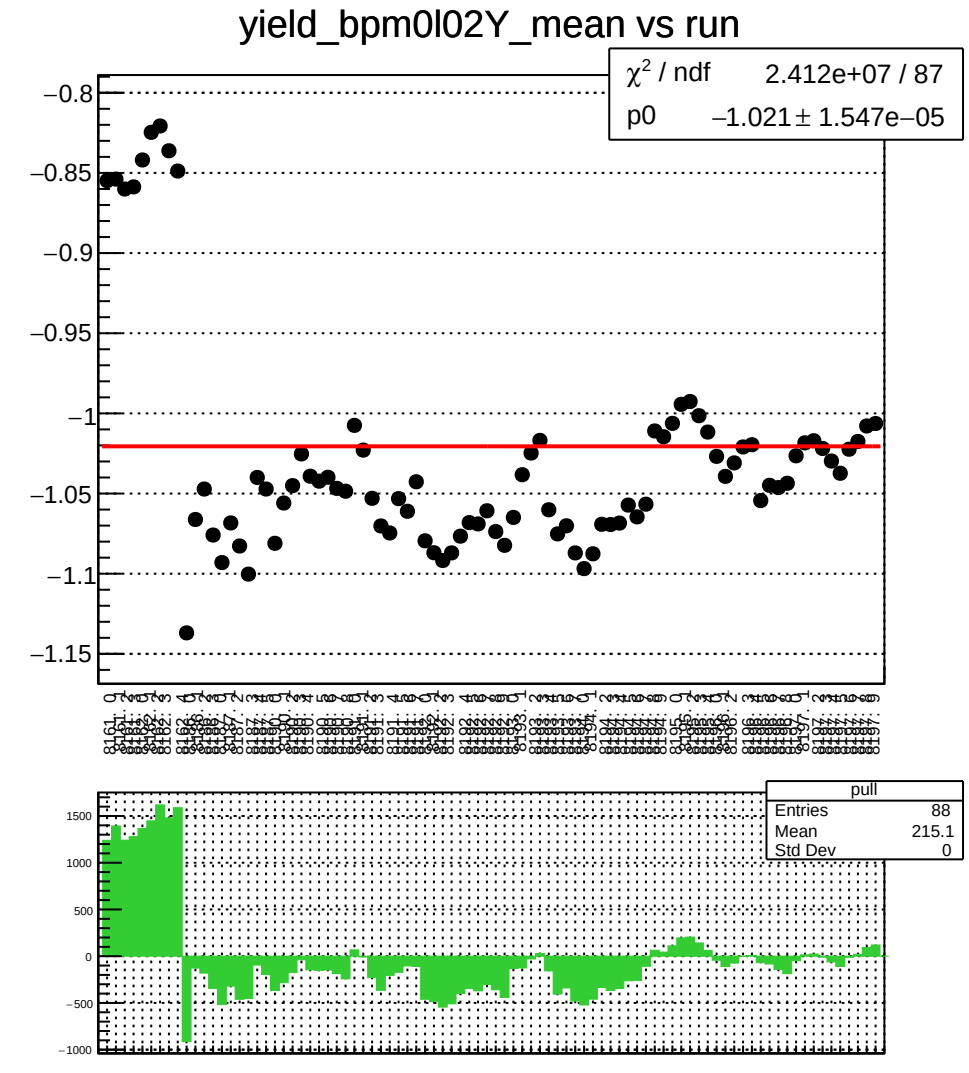
0
2
4
6
8

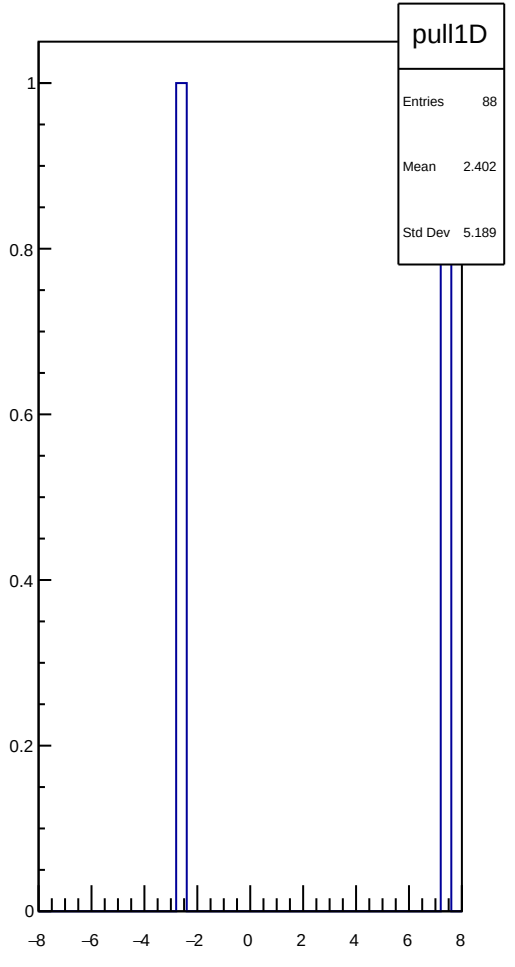

yield_bpm0l01Y_rms vs run
χ² / ndf 7.237e+04 / 87
p0 0.01366 ± 1.081e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

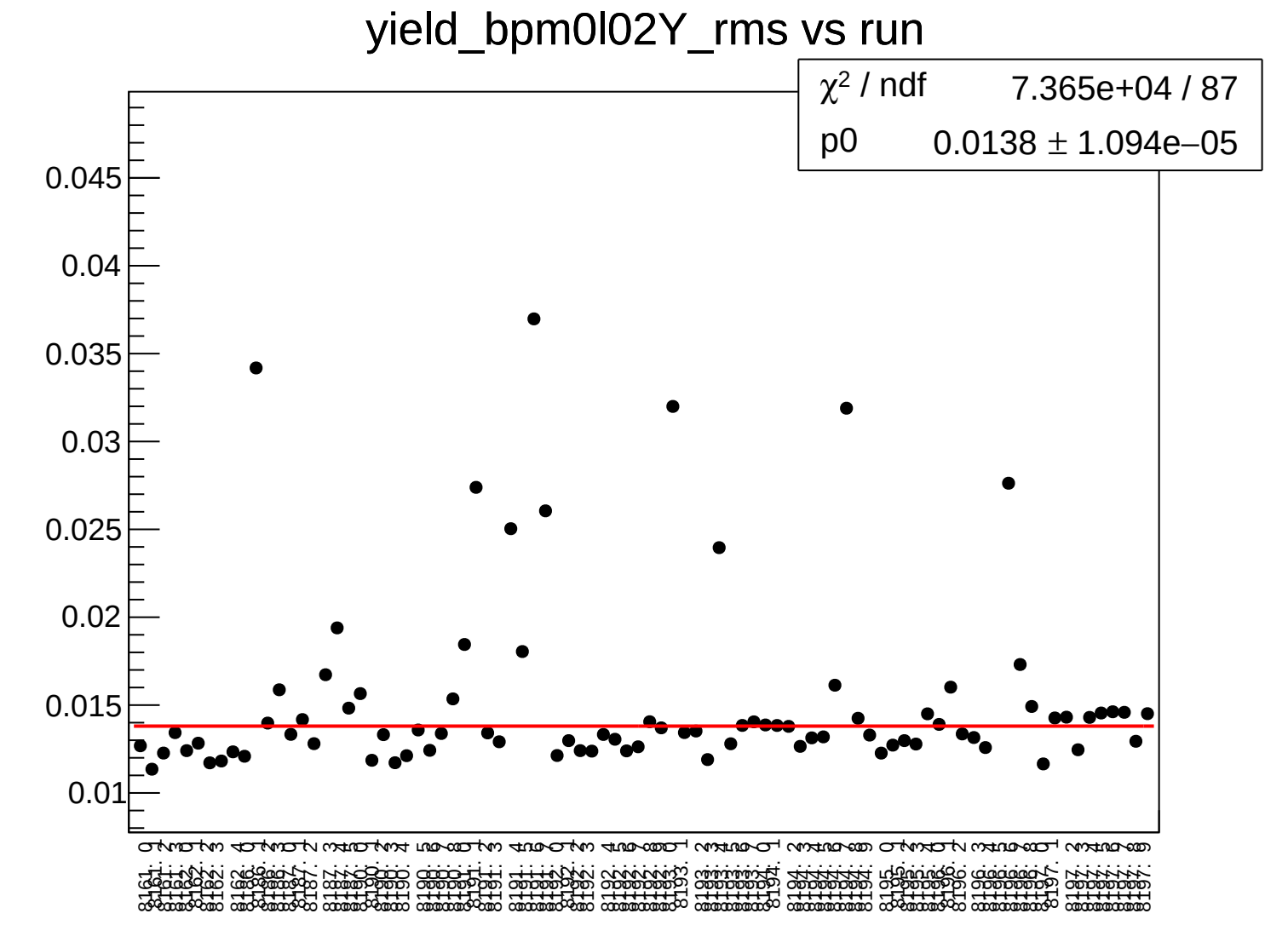

yield_bpm0l02X_mean vs run
χ² / ndf 3.152e+06 / 87
p0 −0.8903 ± 2.143e−05
−0.8
−0.85
−0.9
−0.95
−1
pull
Entries 88
Mean −8505
Std Dev 0
400
200
0
−200
−400

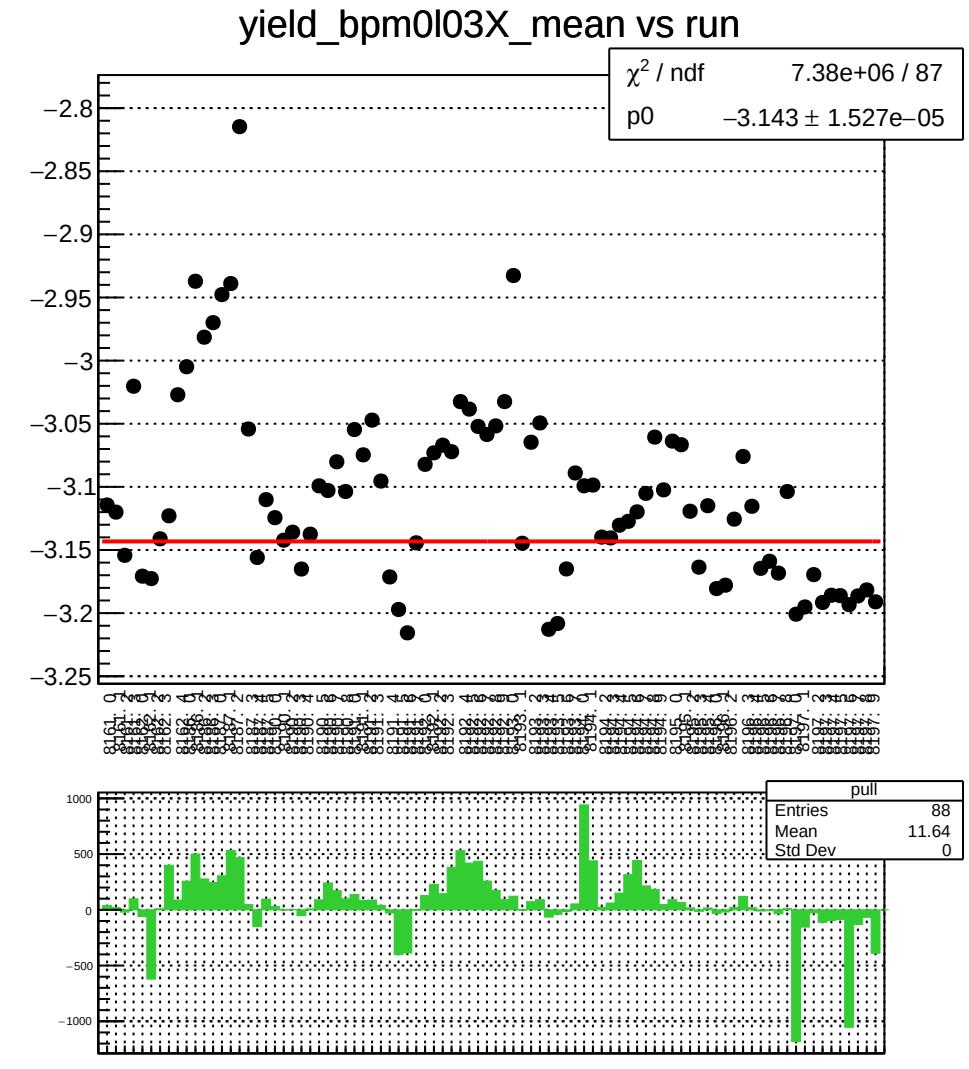

pull1D
Entries 88
Mean 2.438
Std Dev 4.148
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

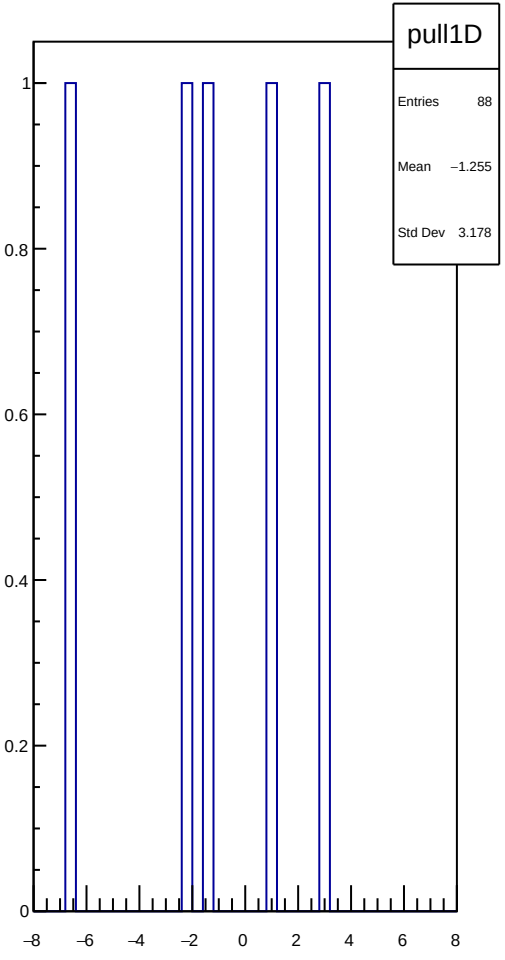

yield_bpm0l02X_rms vs run
χ^2 / ndf 1.099e+04 / 87
p0 0.0195 ± 1.515e−05
0.026
0.024
0.022
0.02
0.018

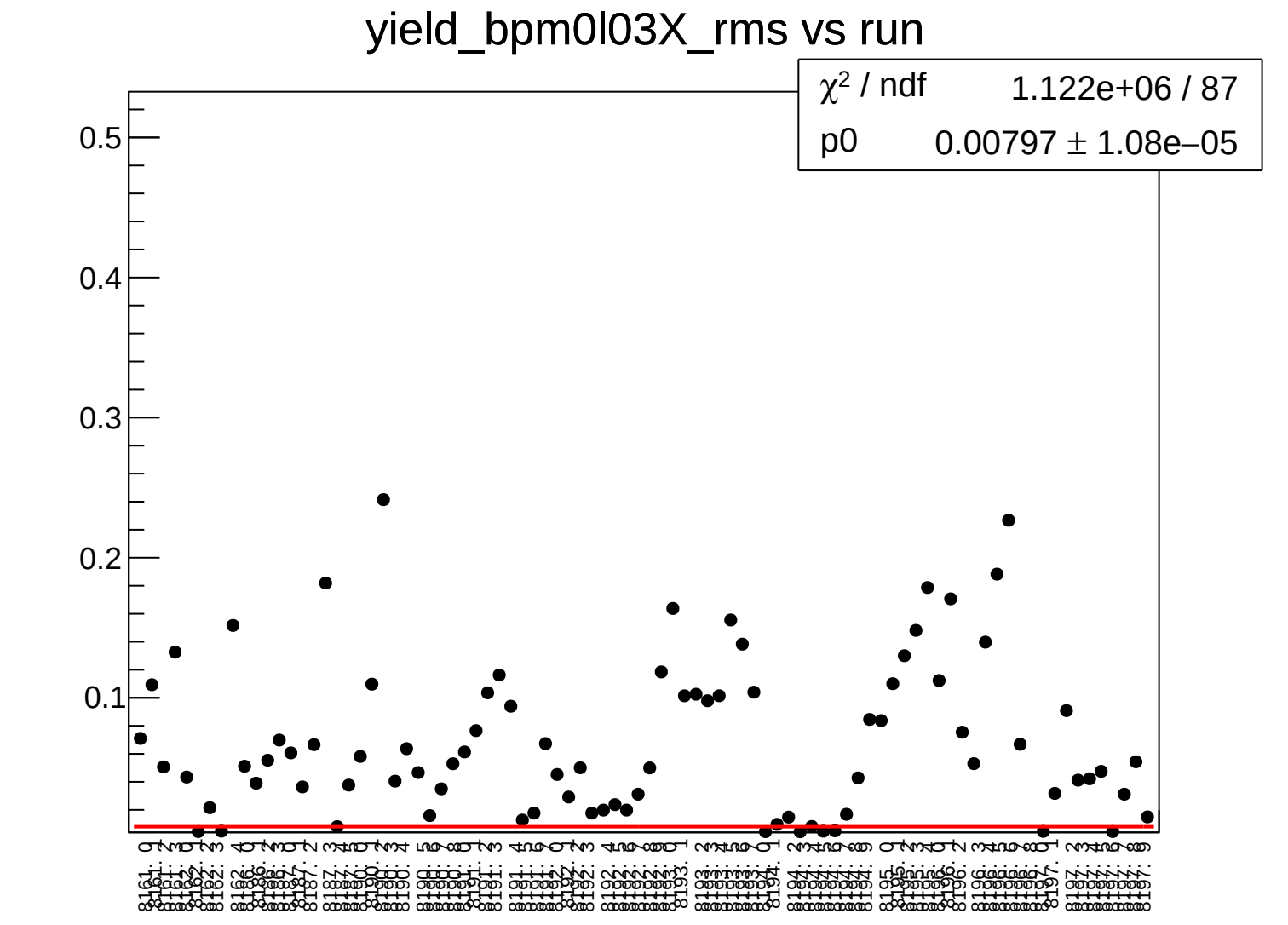

yield_bpm0l02Y_mean vs run
χ² / ndf 2.412e+07 / 87
p0 −1.021 ± 1.547e−05
pull
Entries 88
Mean 215.1
Std Dev 0

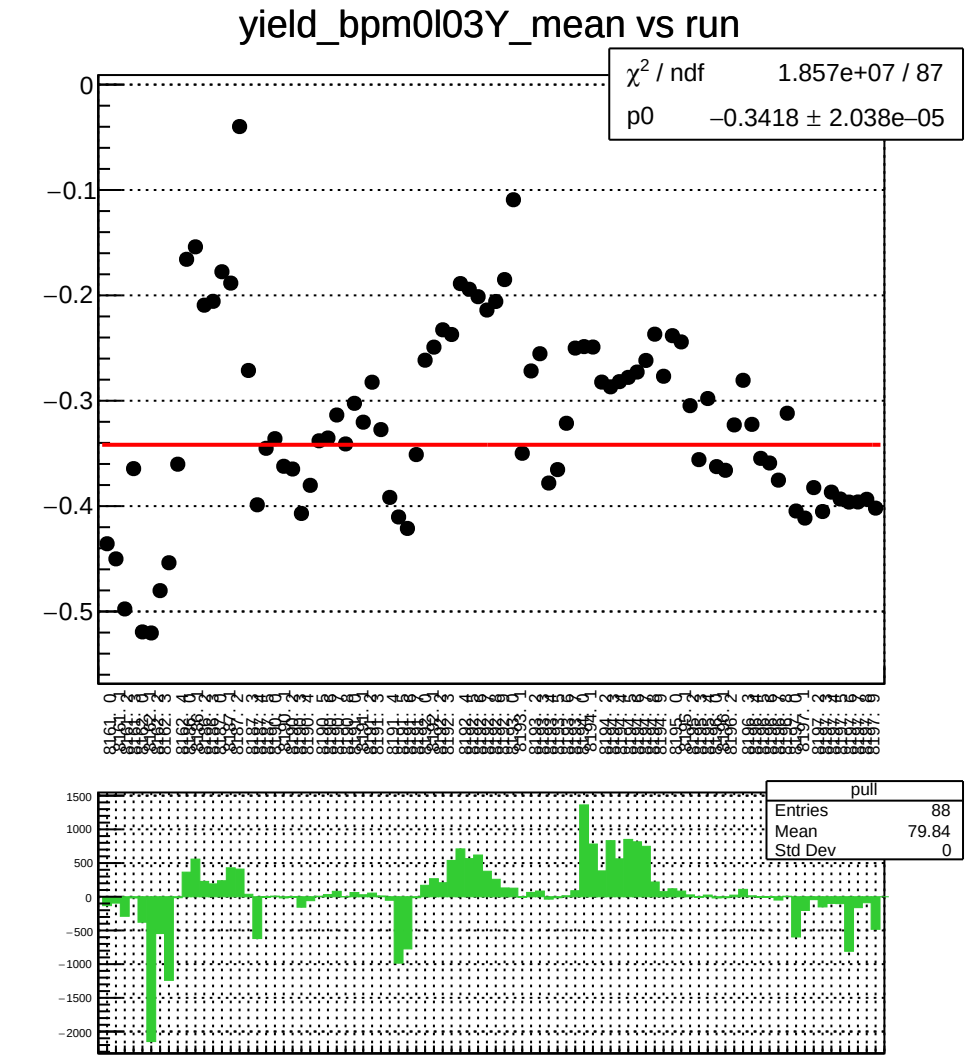

pull1D
Entries 88
Mean 2.402
Std Dev 5.189

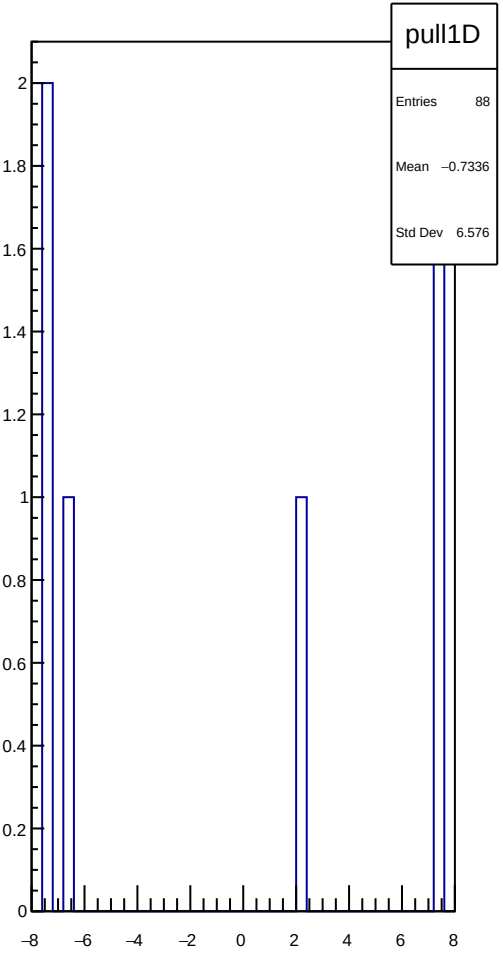

yield_bpm0l02Y_rms vs run
χ² / ndf 7.365e+04 / 87
p0 0.0138 ± 1.094e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

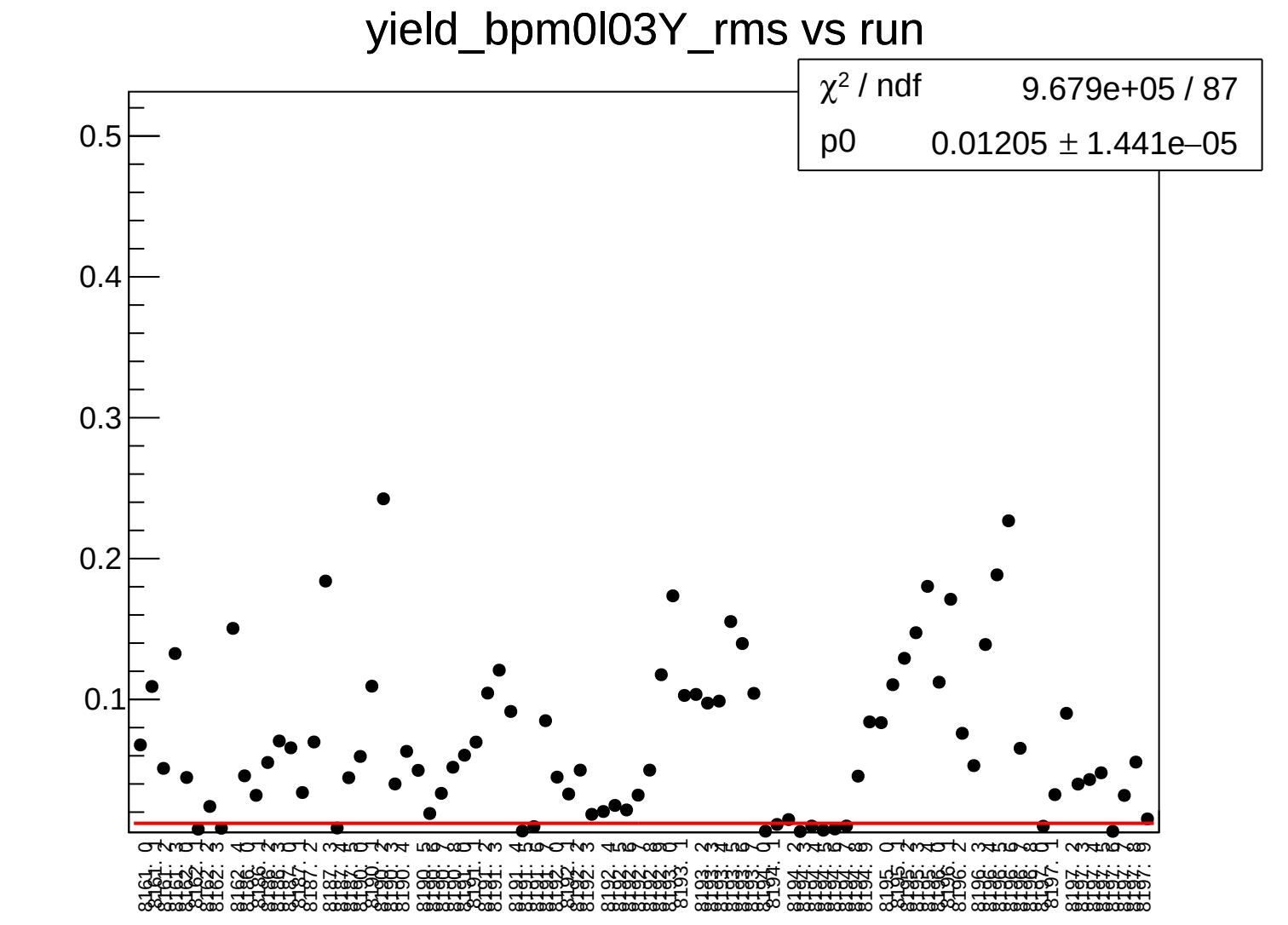

yield_bpm0l03X_mean vs run
χ² / ndf 7.38e+06 / 87
p0 −3.143 ± 1.527e−05
−2.8
−2.85
−2.9
−2.95
−3
−3.05
−3.1
−3.15
−3.2
−3.25
pull
Entries 88
Mean 11.64
Std Dev 0
1000
500
0
−500
−1000

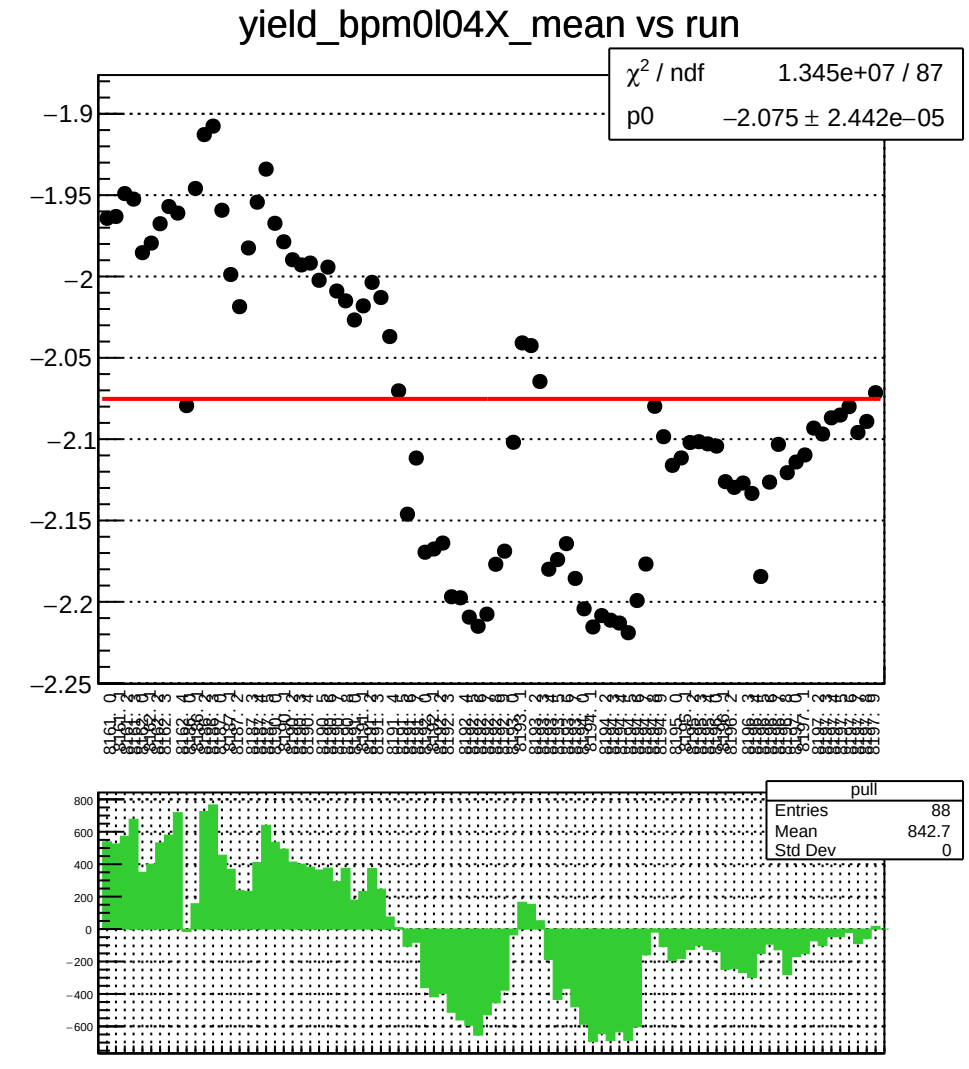

pull1D
Entries 88
Mean −1.255
Std Dev 3.178
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

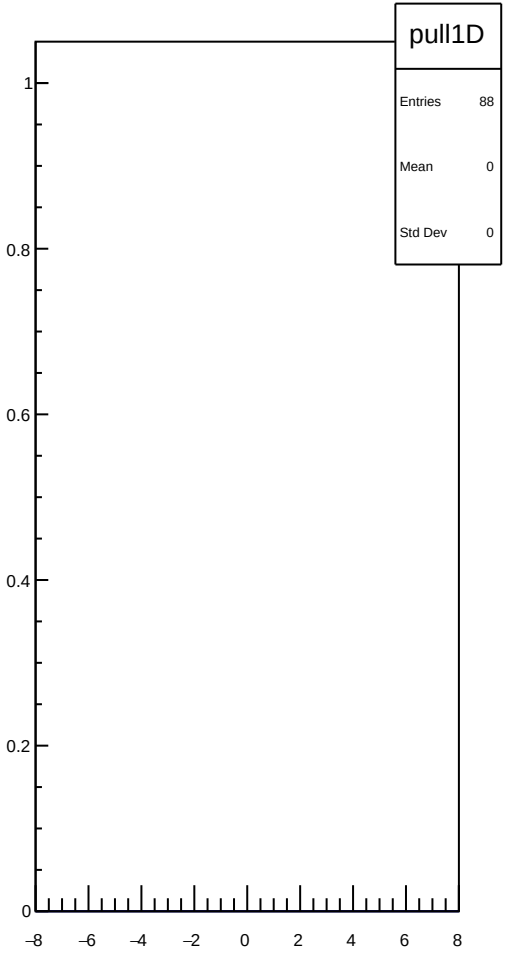

yield_bpm0l03X_rms vs run
χ² / ndf 1.122e+06 / 87
p0 0.00797 ± 1.08e−05
0.5
0.4
0.3
0.2
0.1

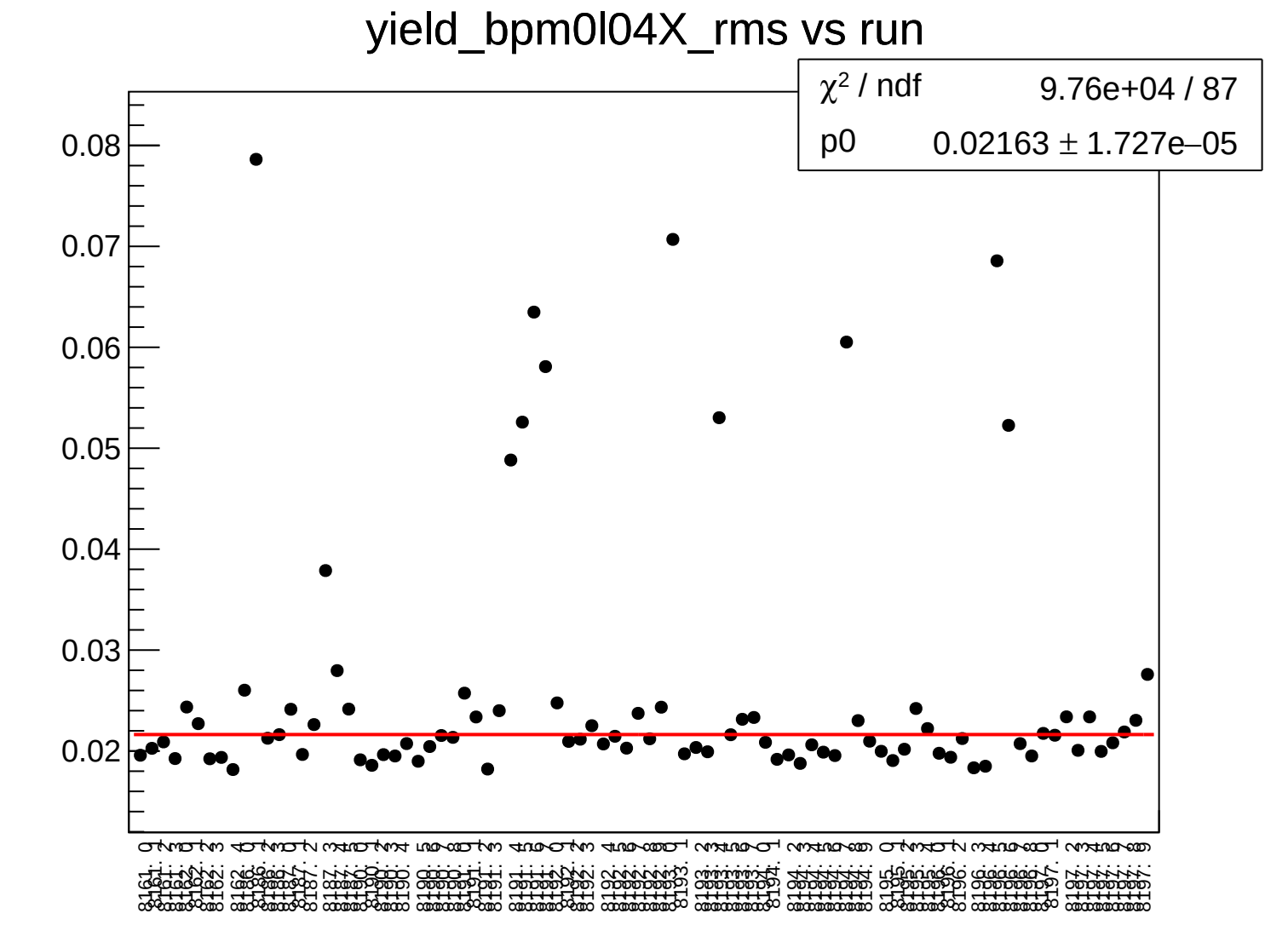

yield_bpm0l03Y_mean vs run
χ² / ndf 1.857e+07 / 87
p0 −0.3418 ± 2.038e−05
pull
Entries 88
Mean 79.84
Std Dev 0

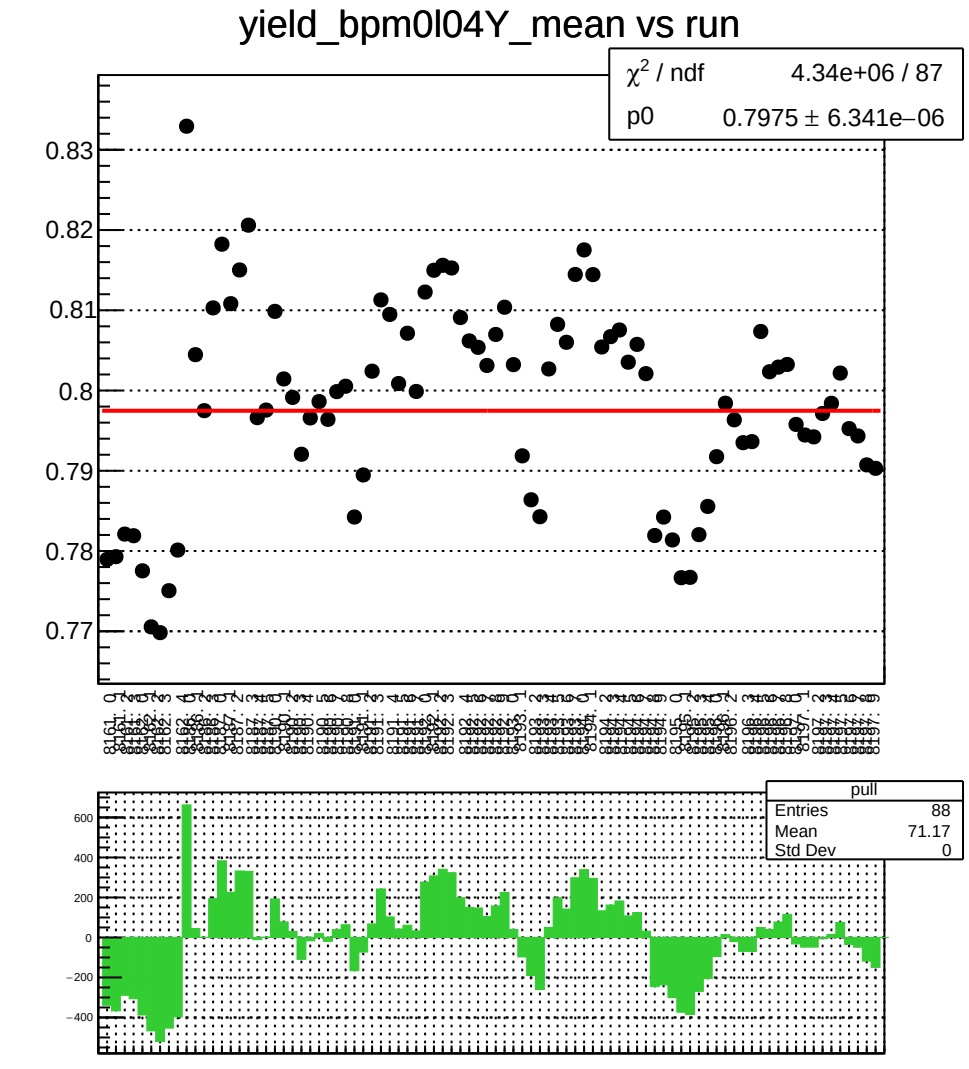

pull1D
Entries 88
Mean −0.7336
Std Dev 6.576

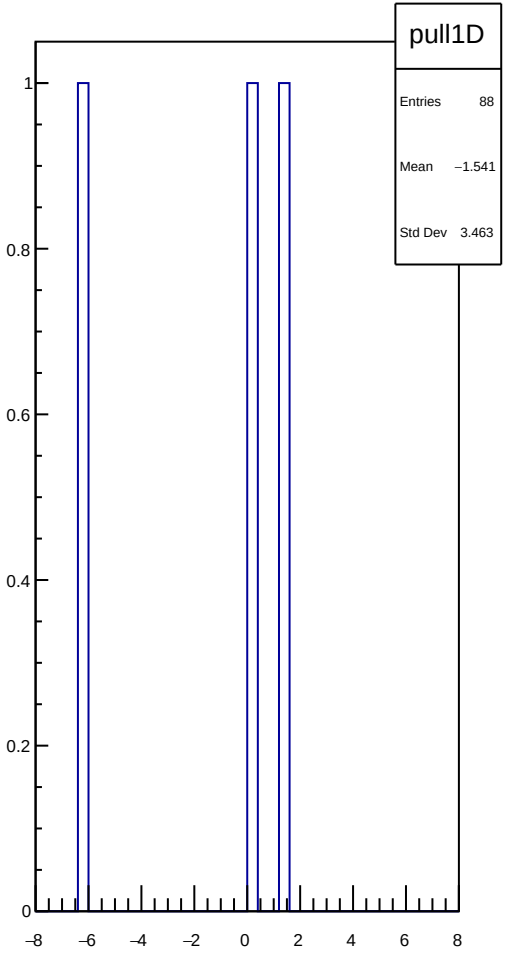

yield_bpm0l03Y_rms vs run
χ² / ndf 9.679e+05 / 87
p0 0.01205 ± 1.441e–05
0.5
0.4
0.3
0.2
0.1

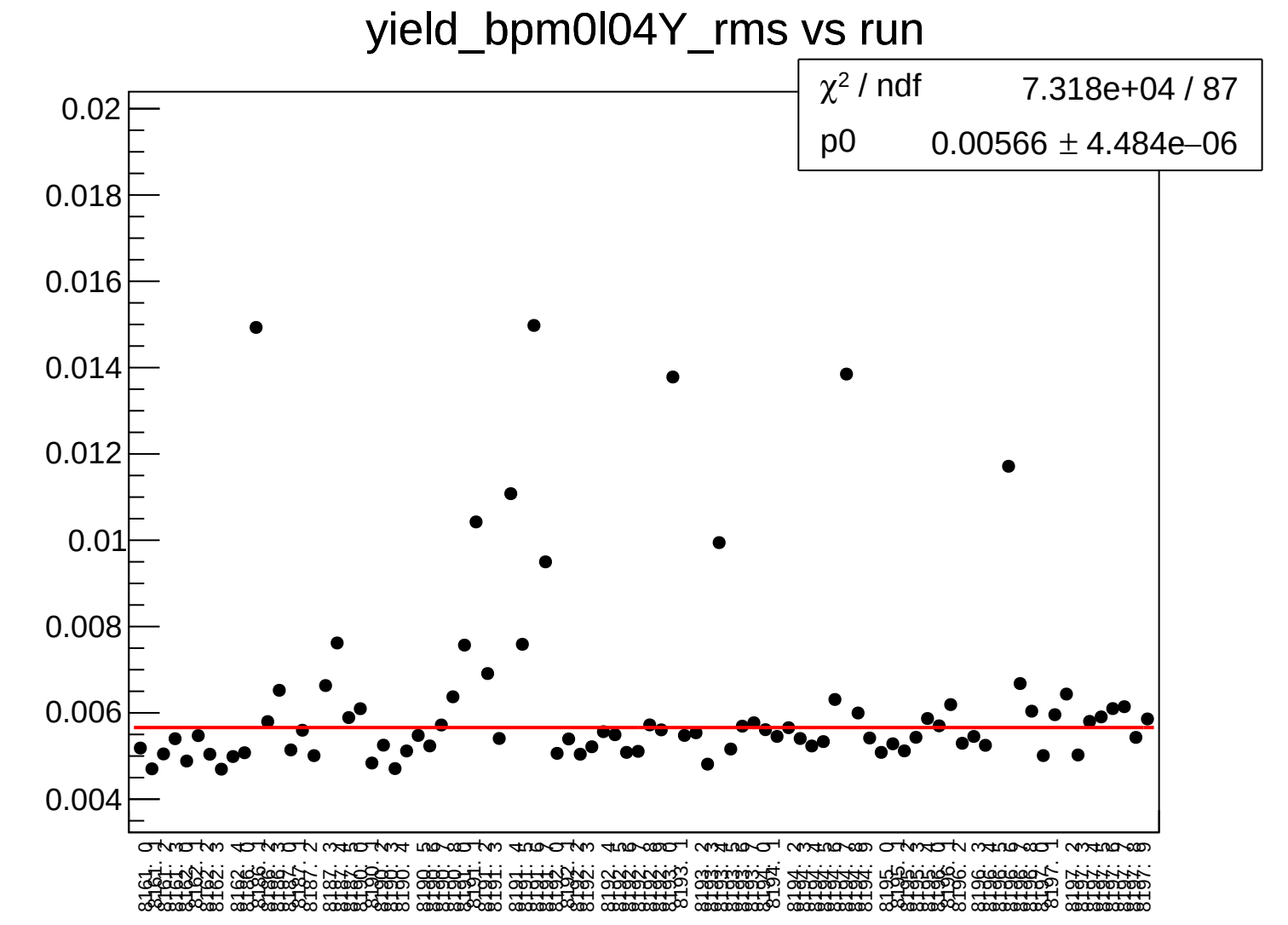

yield_bpm0l04X_mean vs run
χ² / ndf 1.345e+07 / 87
p0 −2.075 ± 2.442e−05
−1.9
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
pull
Entries 88
Mean 842.7
Std Dev 0
800
600
400
200
0
−200
−400
−600

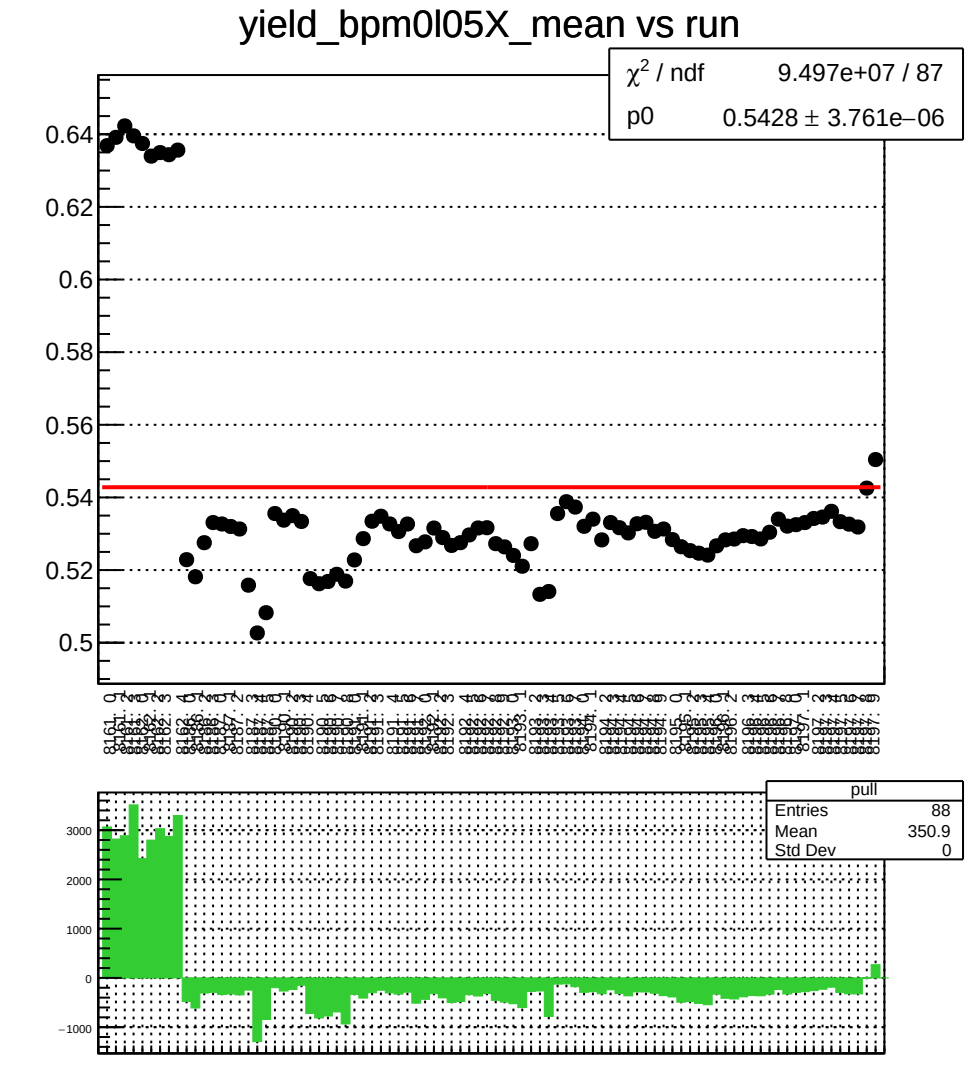

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

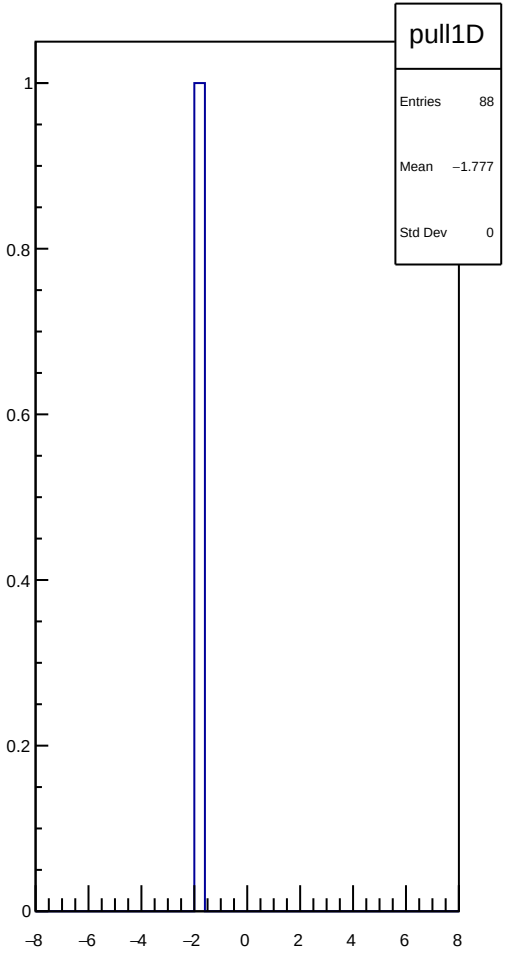

yield_bpm0l04X_rms vs run
χ² / ndf 9.76e+04 / 87
p0 0.02163 ± 1.727e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02

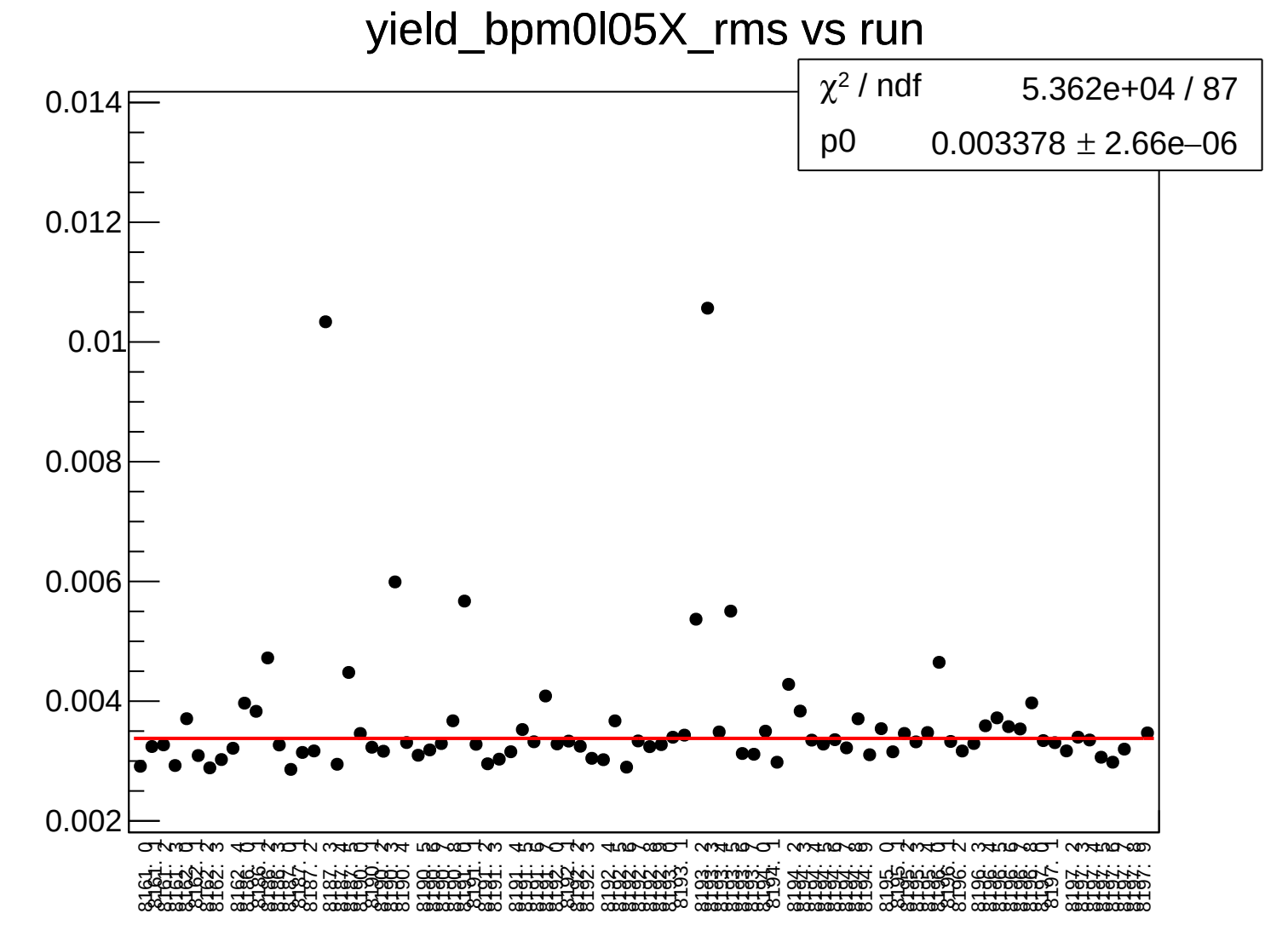

yield_bpm0l04Y_mean vs run
χ² / ndf 4.34e+06 / 87
p0 0.7975 ± 6.341e−06
0.83
0.82
0.81
0.8
0.79
0.78
0.77
pull
Entries 88
Mean 71.17
Std Dev 0
600
400
200
0
−200
−400

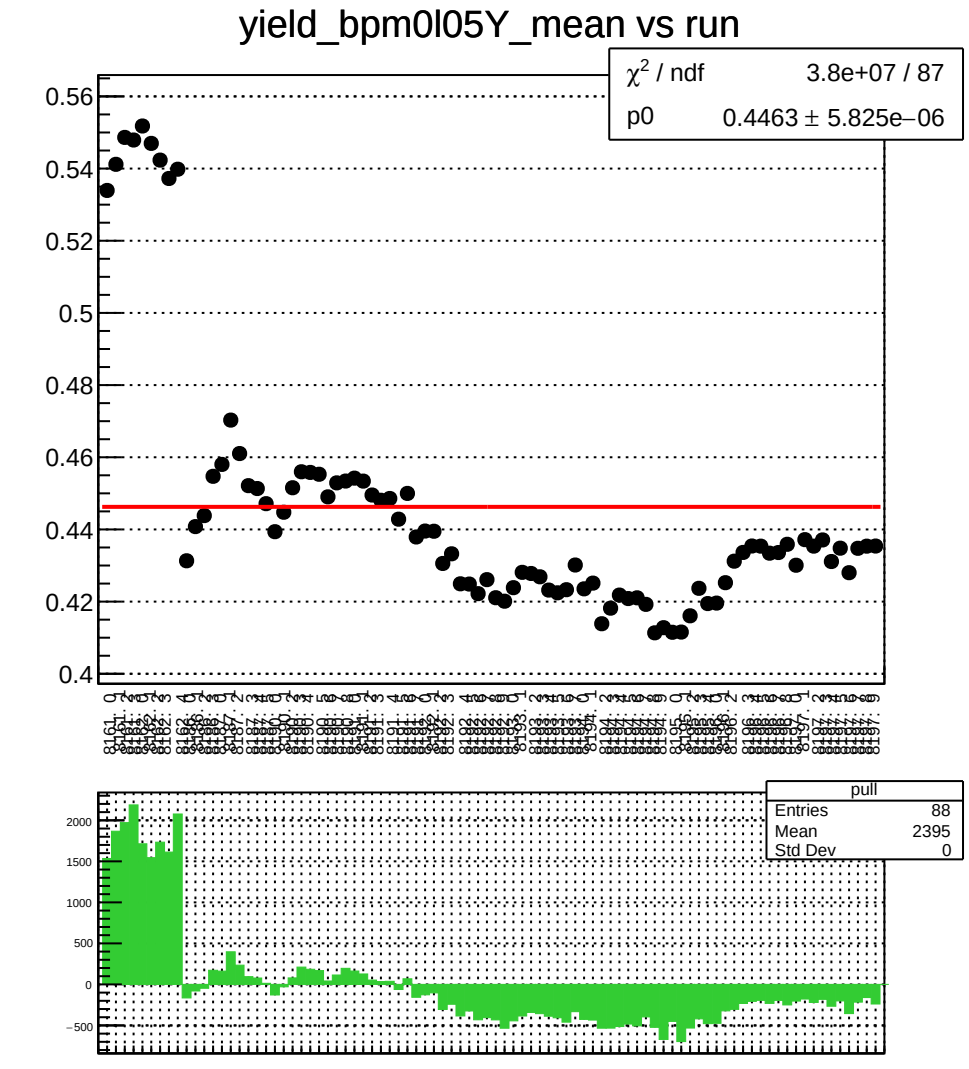

pull1D
Entries 88
Mean −1.541
Std Dev 3.463
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

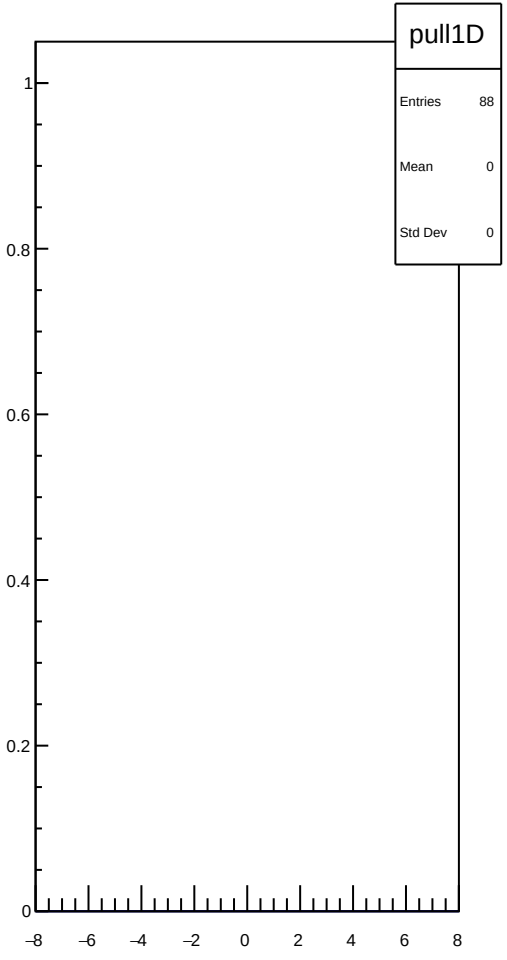

yield_bpm0l04Y_rms vs run
χ² / ndf 7.318e+04 / 87
p0 0.00566 ± 4.484e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

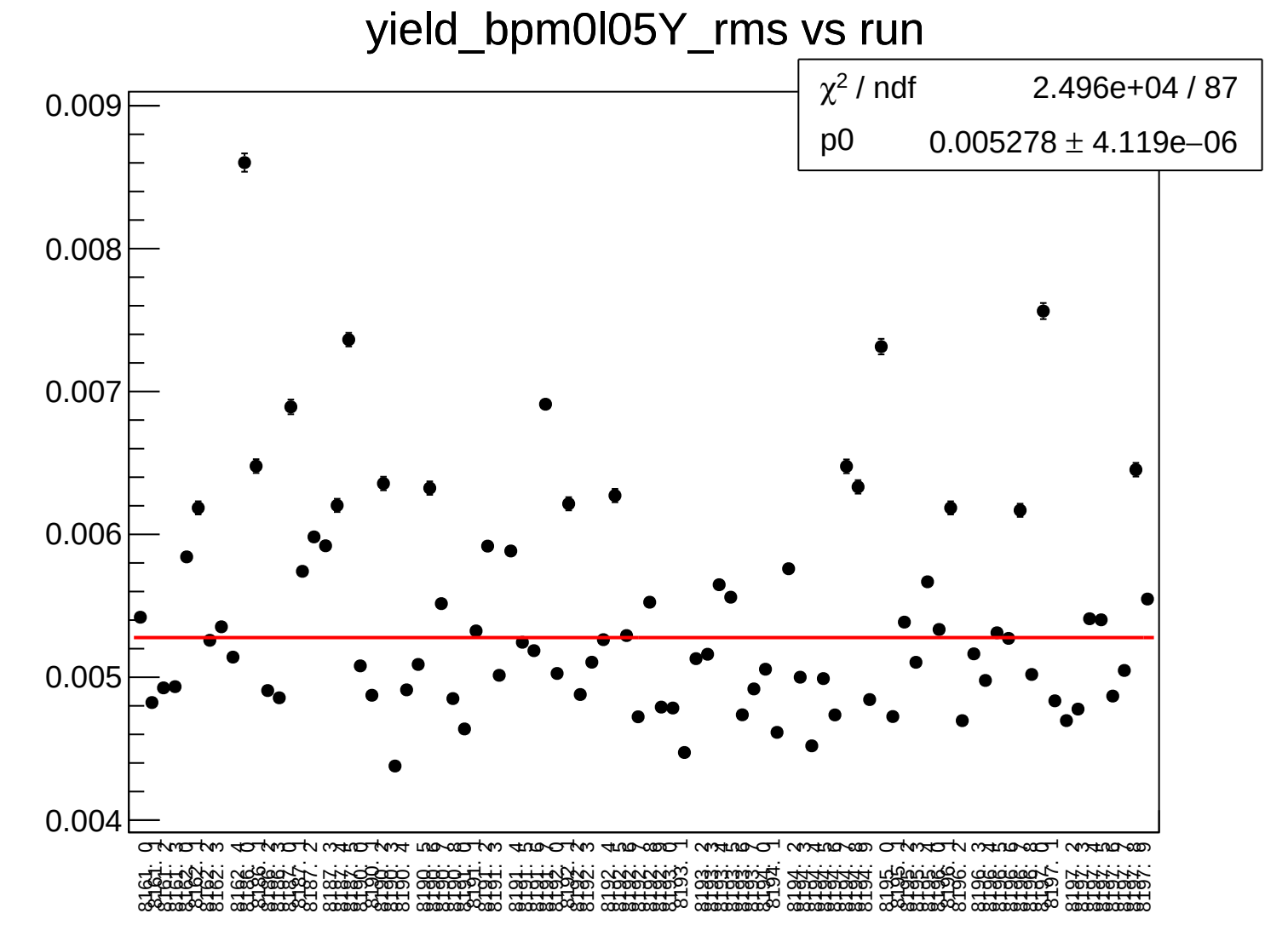

yield_bpm0l05X_mean vs run
χ² / ndf 9.497e+07 / 87
p0 0.5428 ± 3.761e−06
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
pull
Entries 88
Mean 350.9
Std Dev 0
3000
2000
1000
0
−1000

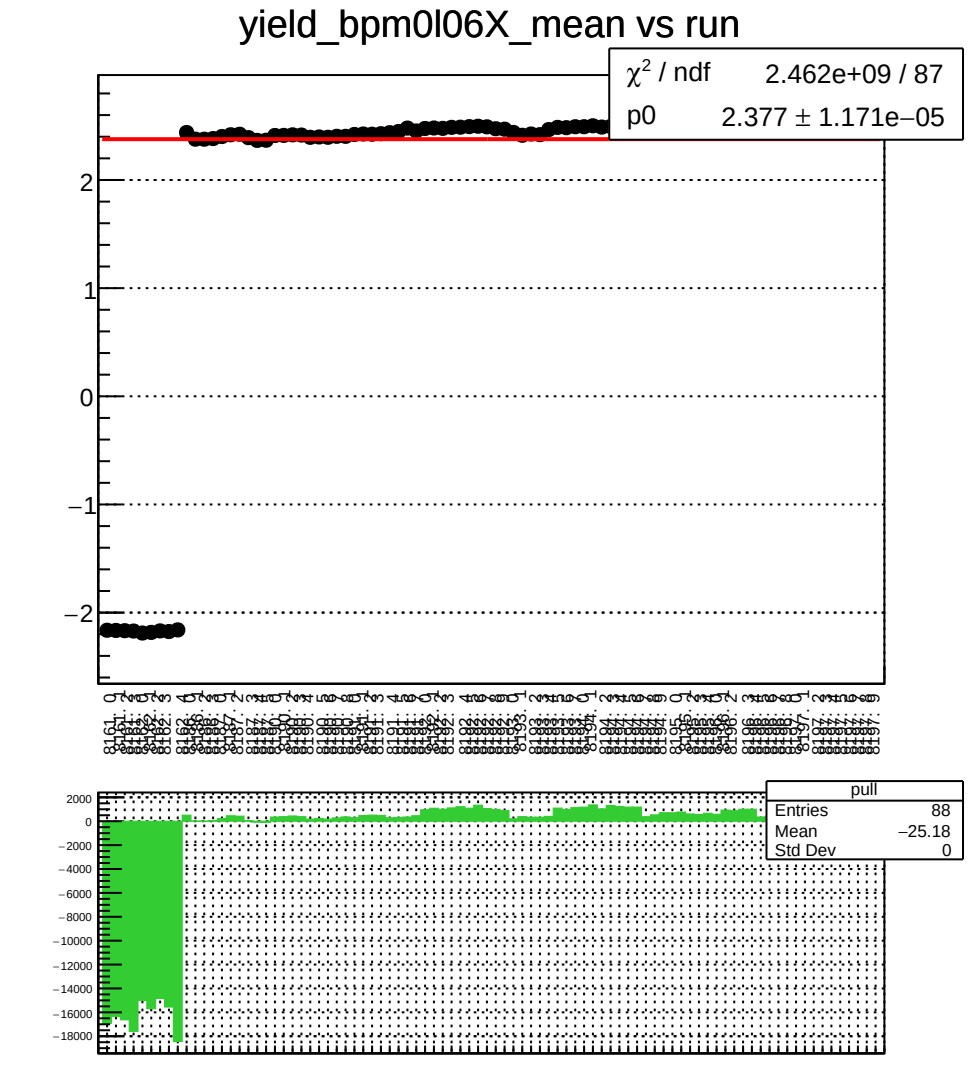

pull1D
Entries 88
Mean −1.777
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

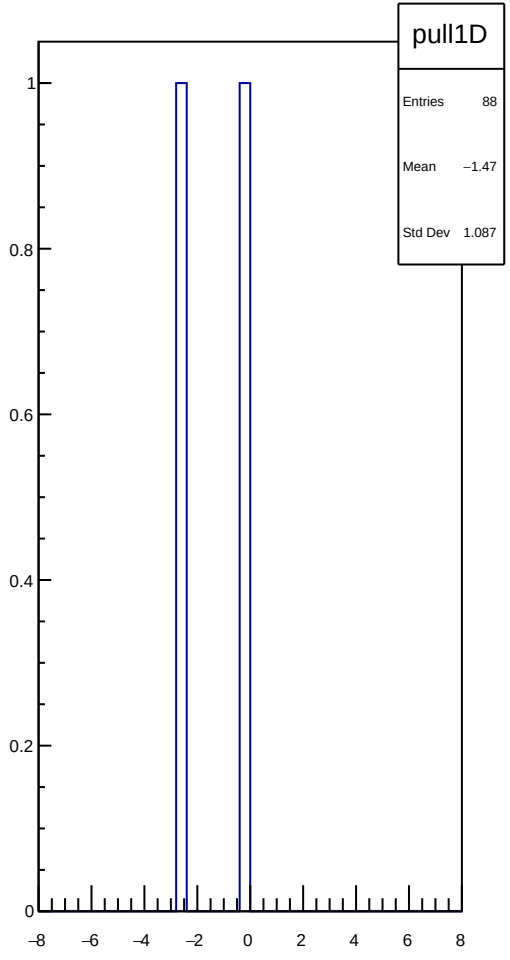

yield_bpm0l05X_rms vs run
χ² / ndf 5.362e+04 / 87
p0 0.003378 ± 2.66e–06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

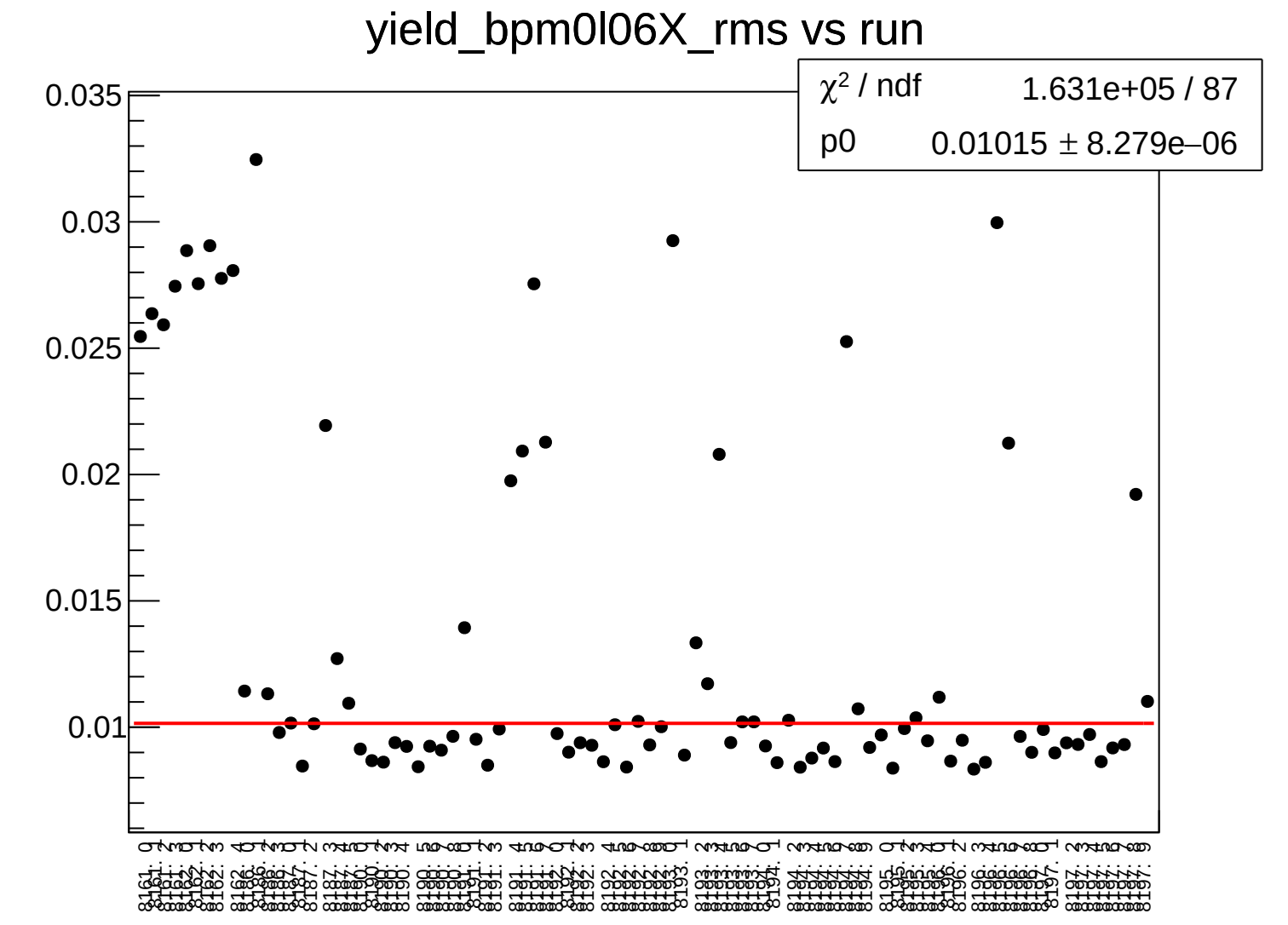

yield_bpm0l05Y_mean vs run
χ² / ndf 3.8e+07 / 87
p0 0.4463 ± 5.825e−06
0.56
0.54
0.52
0.5
0.48
0.46
0.44
0.42
0.4
pull
Entries 88
Mean 2395
Std Dev 0
2000
1500
1000
500
0
−500

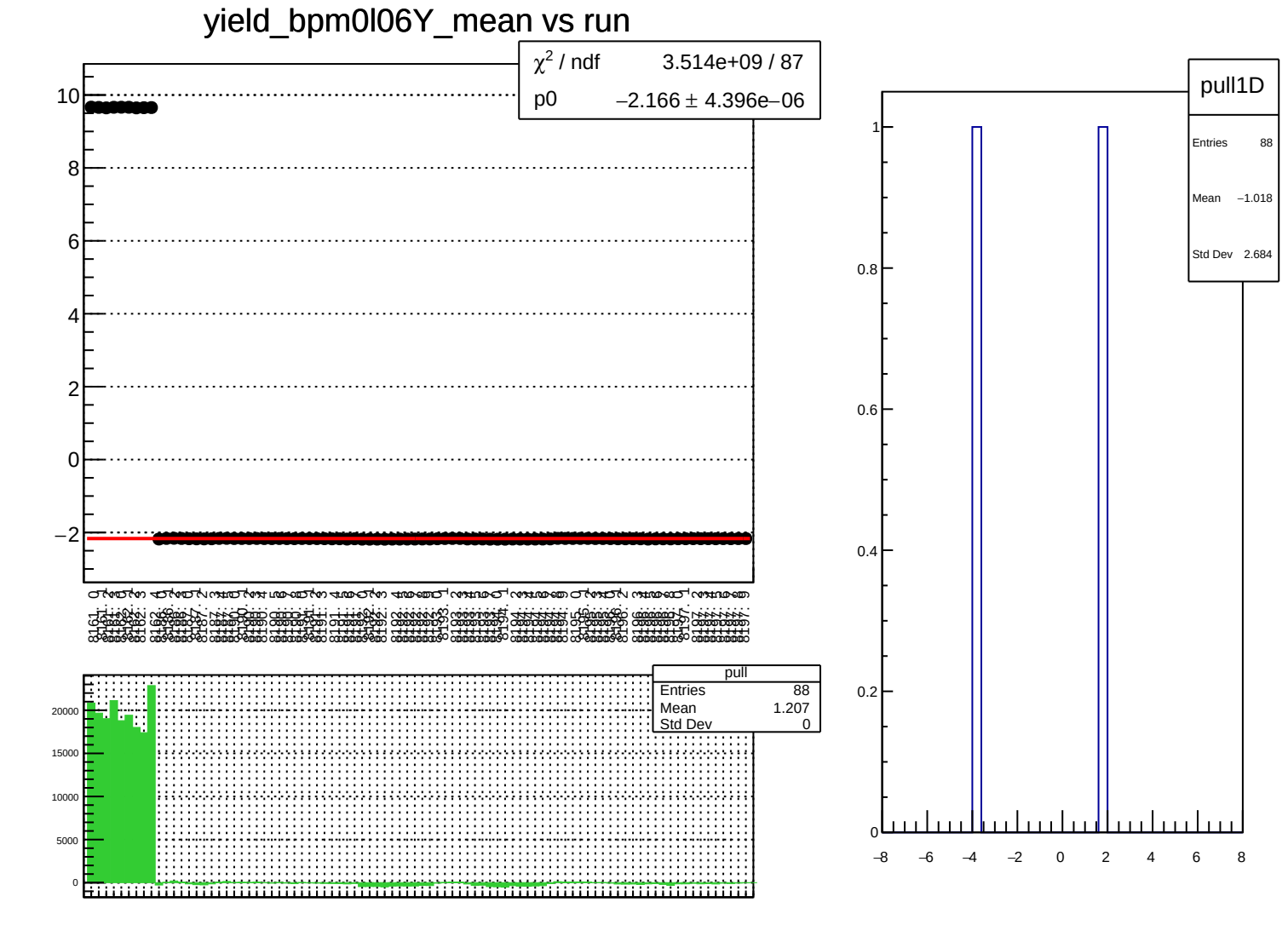

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

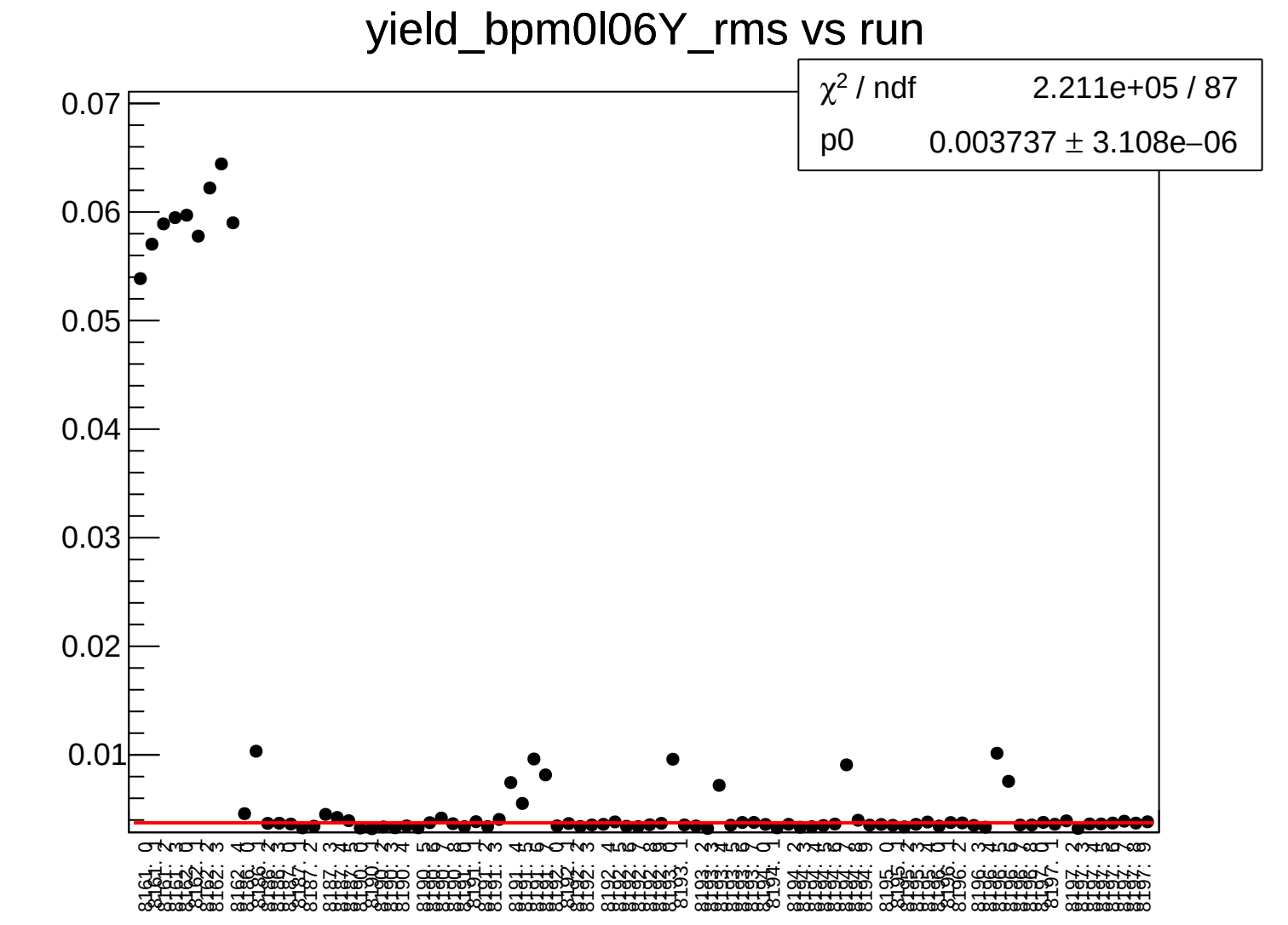

yield_bpm0l05Y_rms vs run
χ² / ndf 2.496e+04 / 87
p0 0.005278 ± 4.119e−06
0.009
0.008
0.007
0.006
0.005
0.004

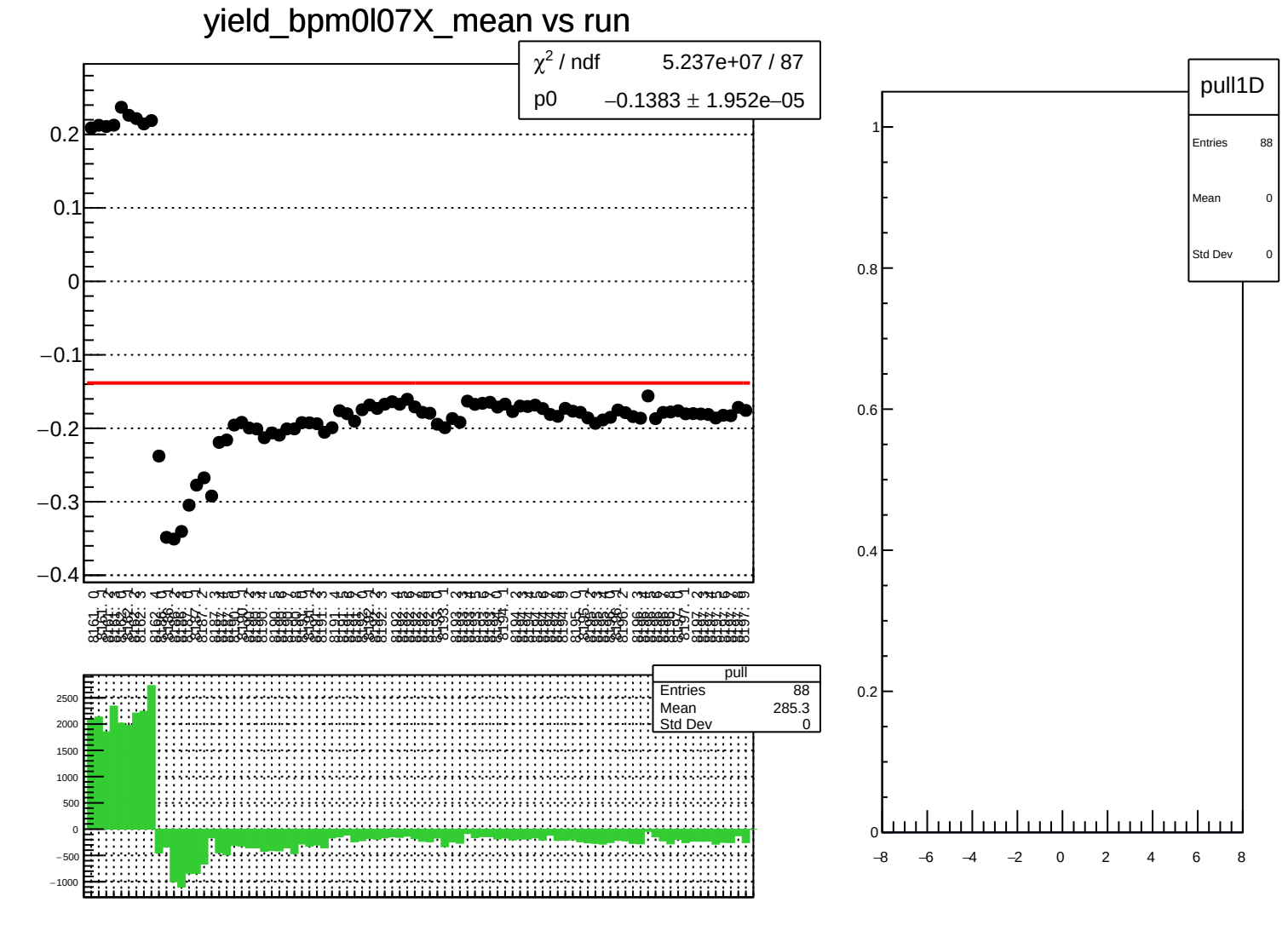

yield_bpm0l06X_mean vs run
χ² / ndf 2.462e+09 / 87
p0 2.377 ± 1.171e−05
pull
Entries 88
Mean −25.18
Std Dev 0

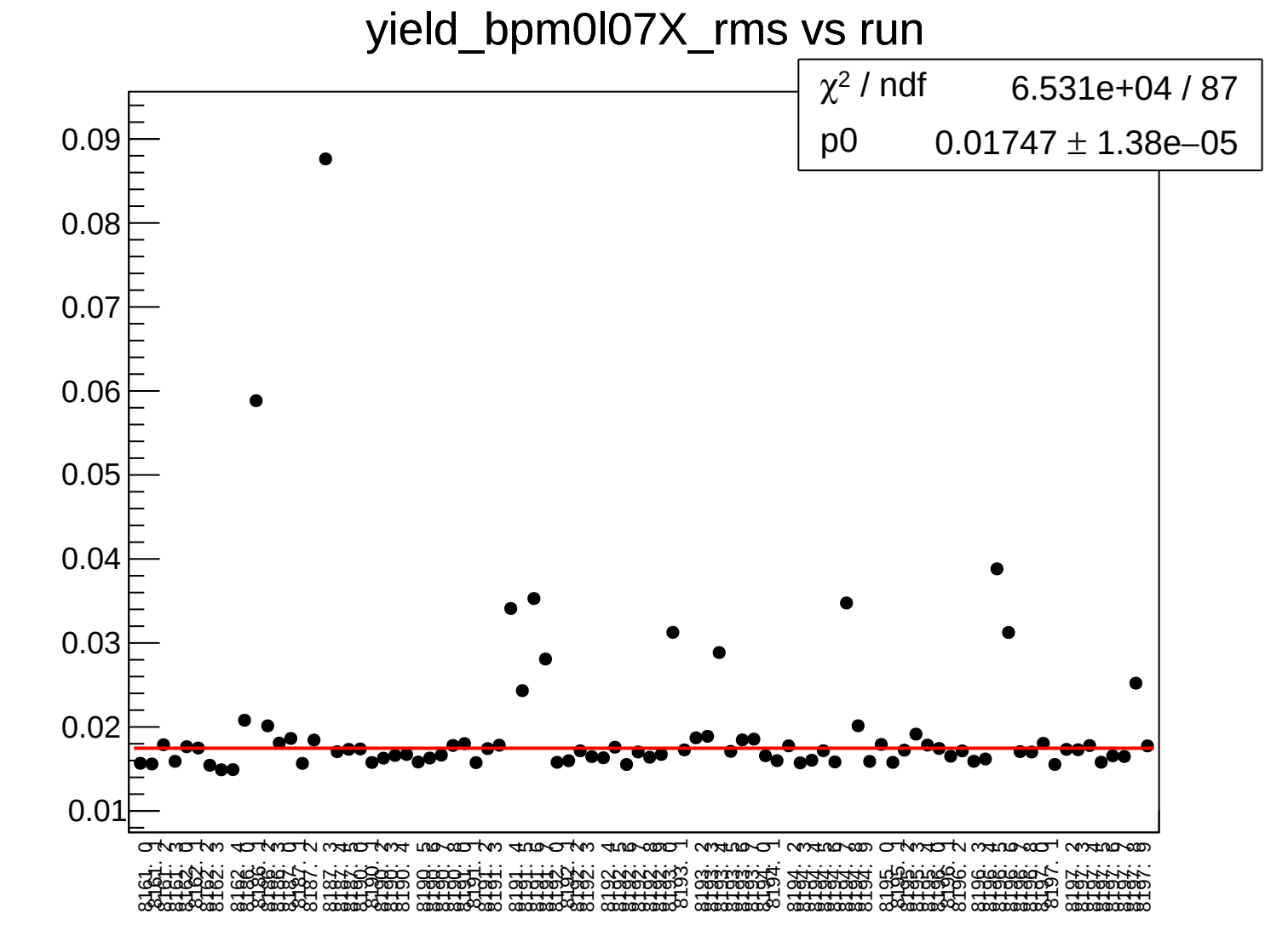

pull1D
Entries 88
Mean −1.47
Std Dev 1.087

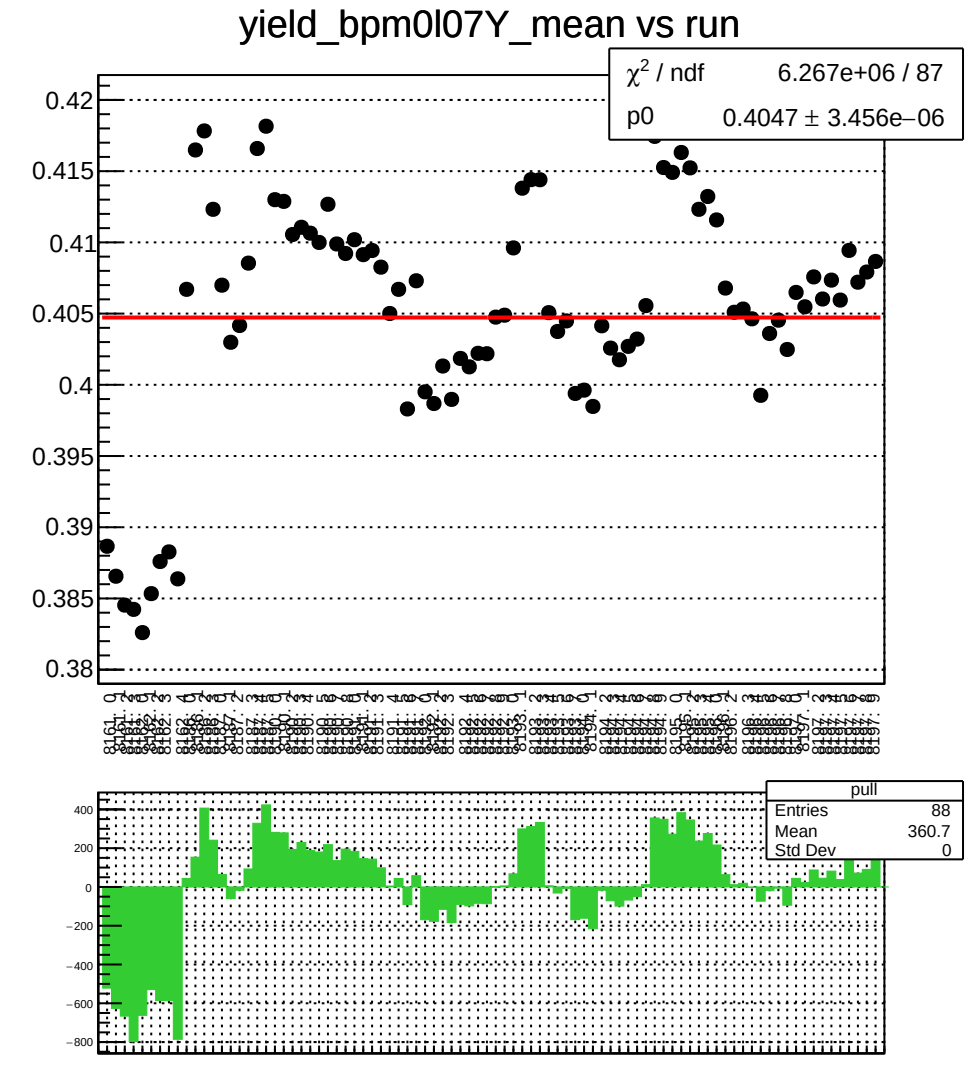

yield_bpm0l06X_rms vs run
χ² / ndf 1.631e+05 / 87
p0 0.01015 ± 8.279e–06
0.035
0.03
0.025
0.02
0.015
0.01

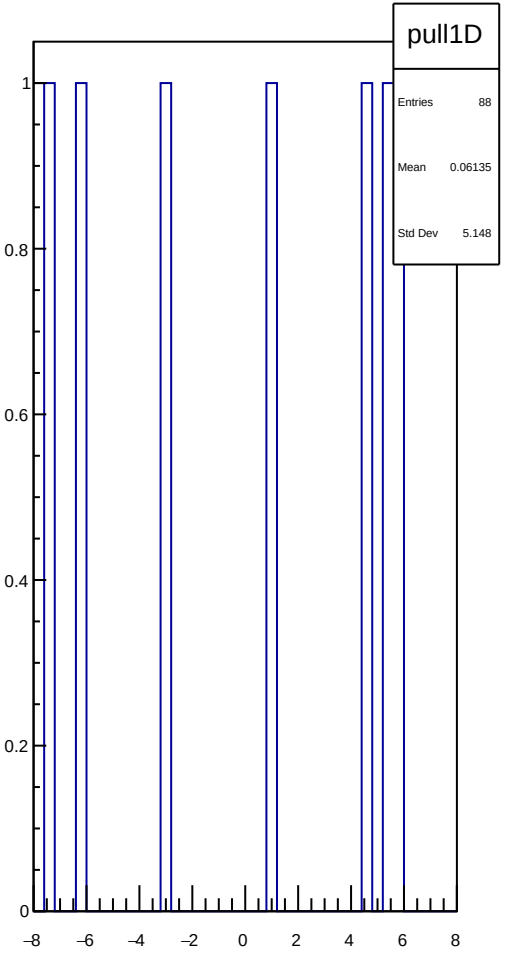

yield_bpm0l06Y_mean vs run
χ² / ndf 3.514e+09 / 87
p0 −2.166 ± 4.396e−06
pull
Entries 88
Mean 1.207
Std Dev 0
pull1D
Entries 88
Mean −1.018
Std Dev 2.684

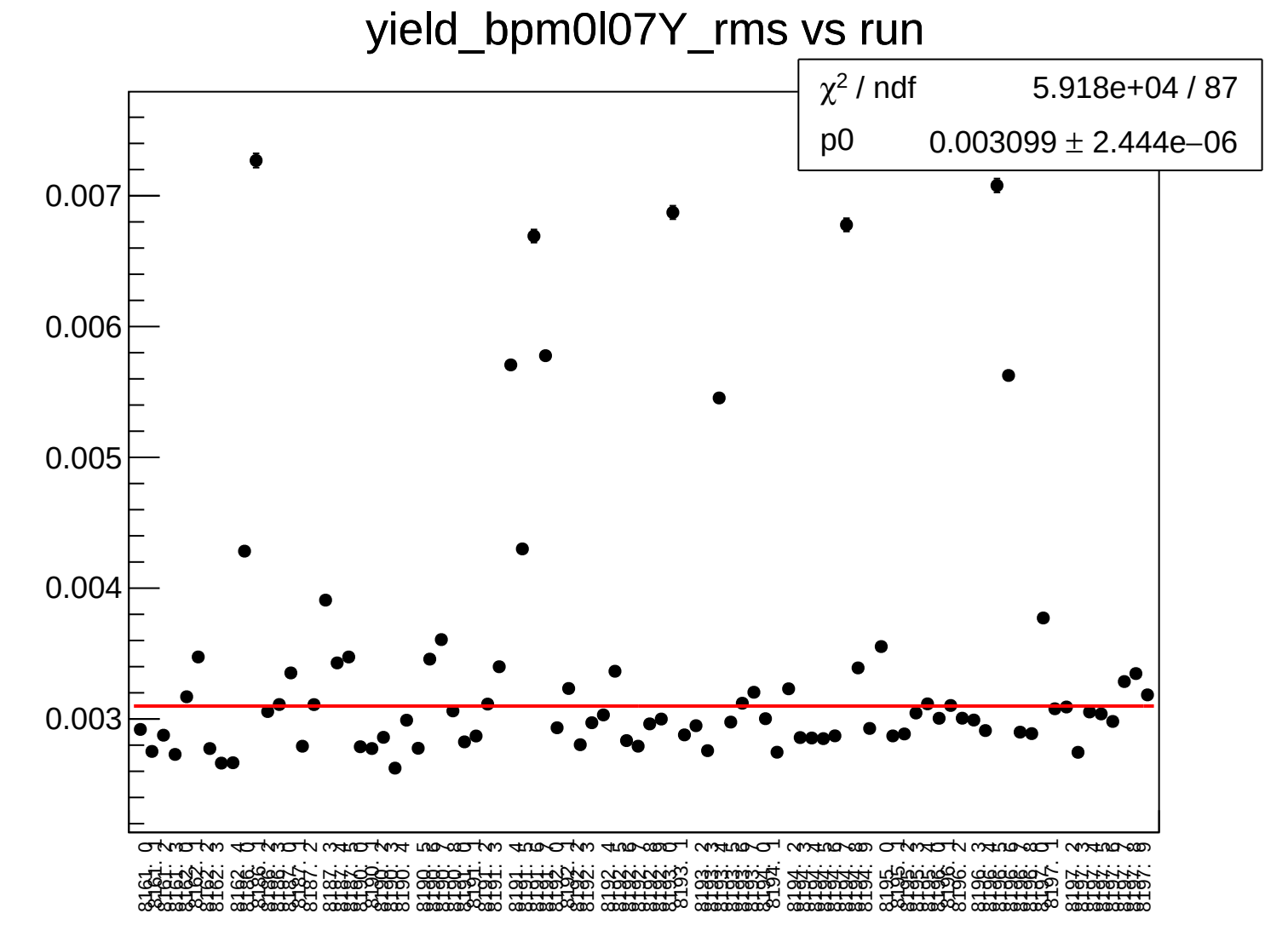

yield_bpm0l06Y_rms vs run
χ² / ndf 2.211e+05 / 87
p0 0.003737 ± 3.108e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

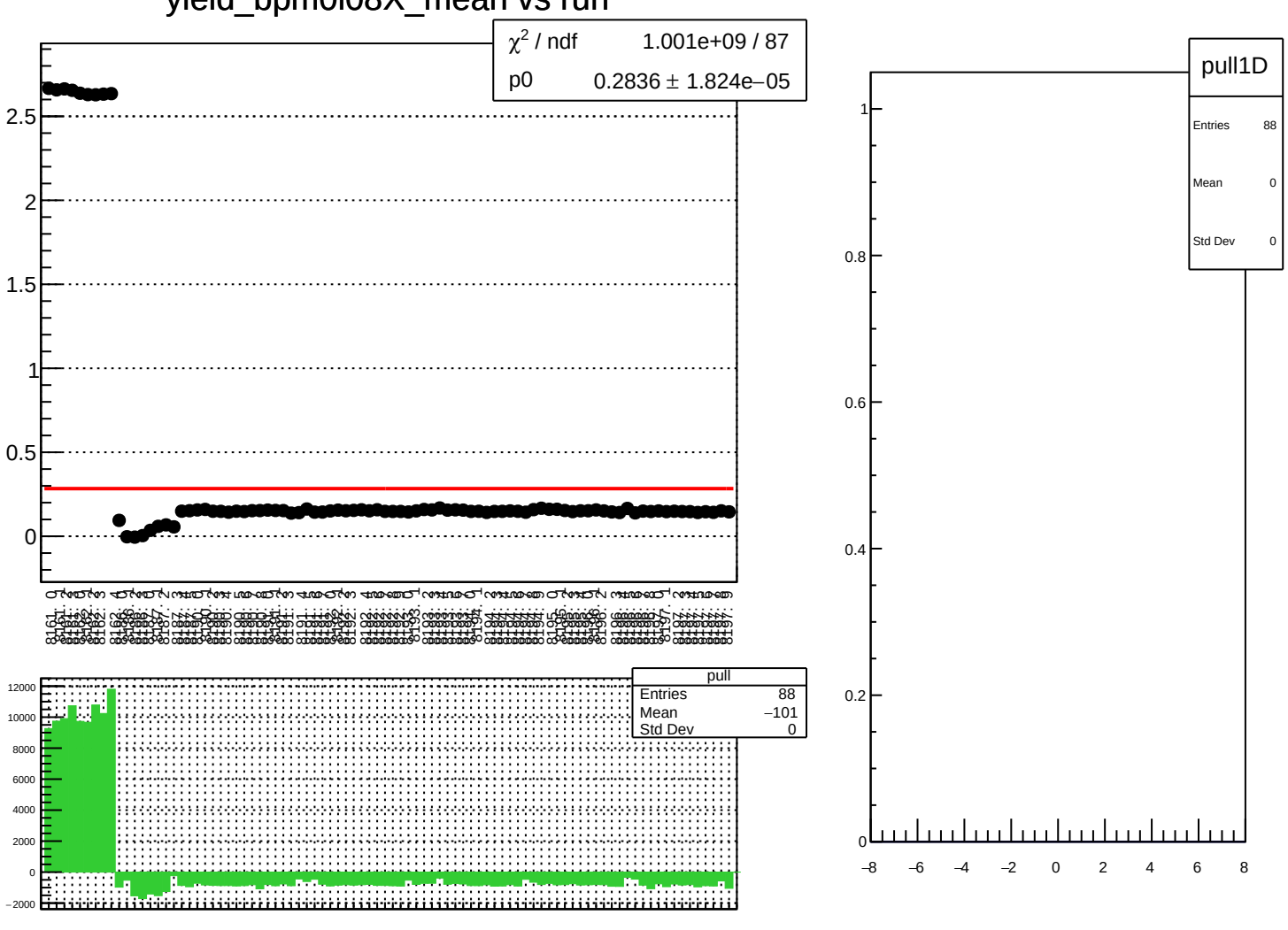

yield_bpm0l07X_mean vs run
χ² / ndf 5.237e+07 / 87
p0 −0.1383 ± 1.952e−05
pull
Entries 88
Mean 285.3
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

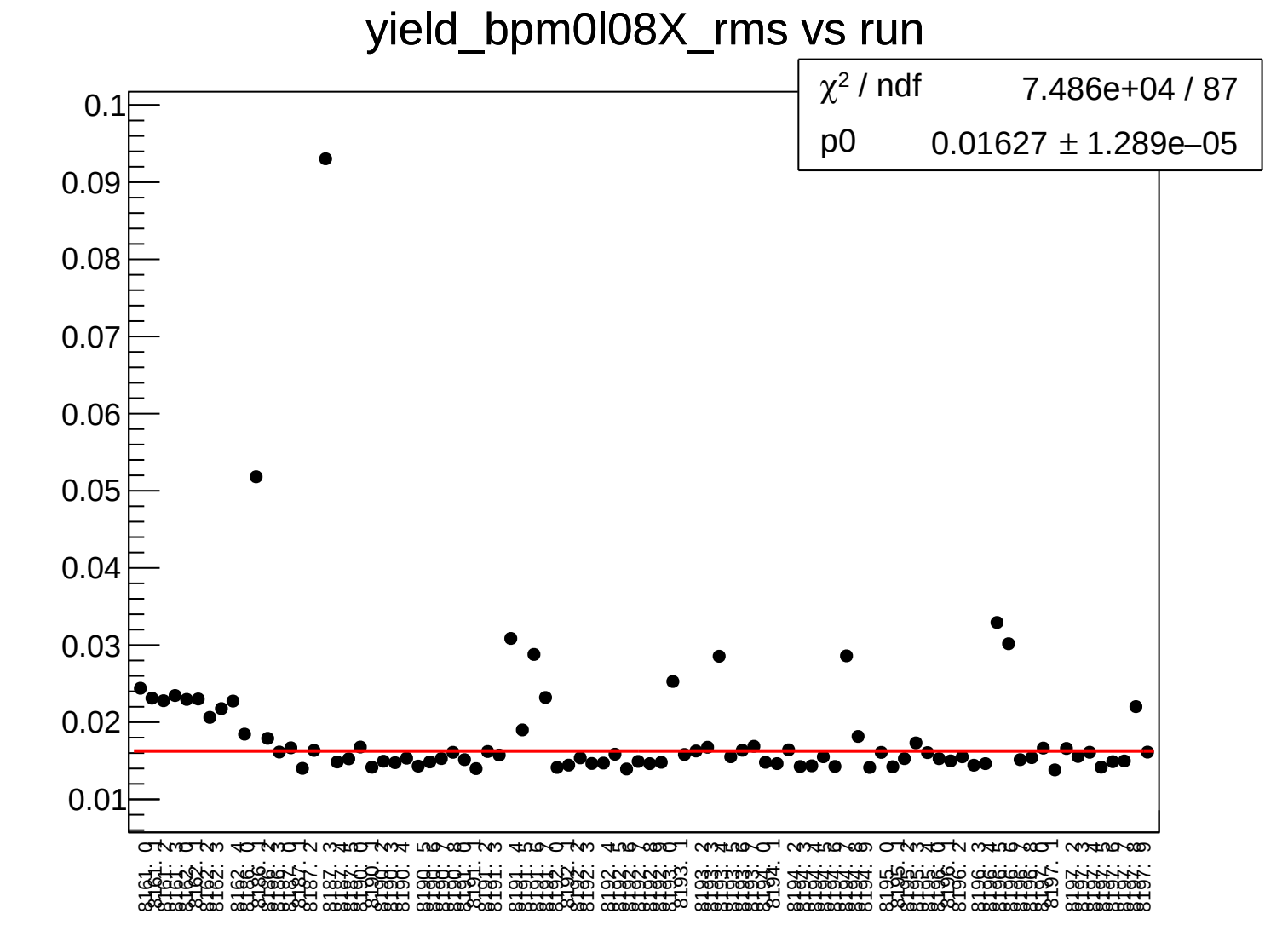

yield_bpm0l07X_rms vs run
χ² / ndf 6.531e+04 / 87
p0 0.01747 ± 1.38e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

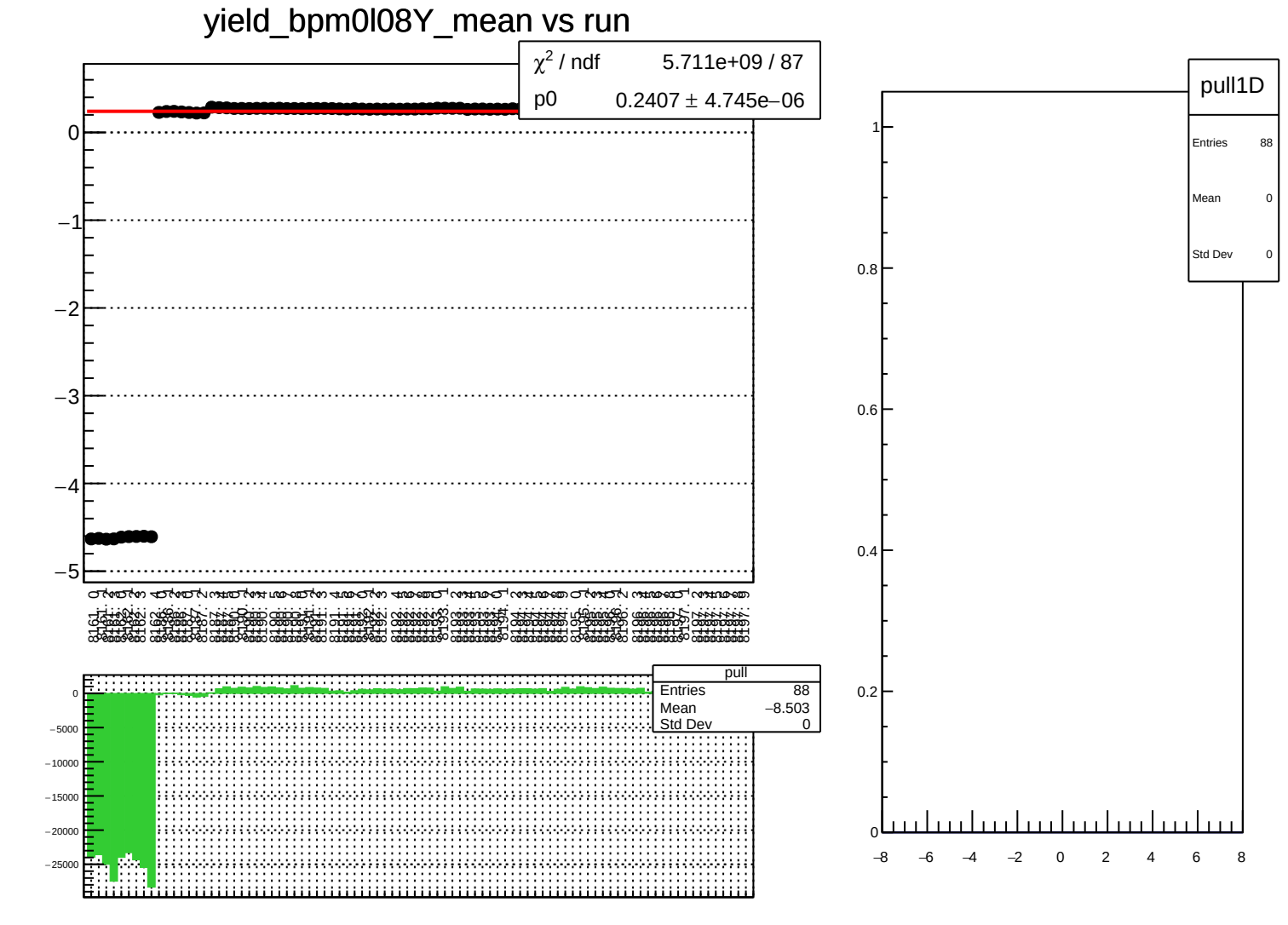

yield_bpm0l07Y_mean vs run
χ² / ndf 6.267e+06 / 87
p0 0.4047 ± 3.456e−06
0.42
0.415
0.41
0.405
0.4
0.395
0.39
0.385
0.38
pull
Entries 88
Mean 360.7
Std Dev 0
400
200
0
−200
−400
−600
−800


pull1D
Entries 88
Mean 0.06135
Std Dev 5.148
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

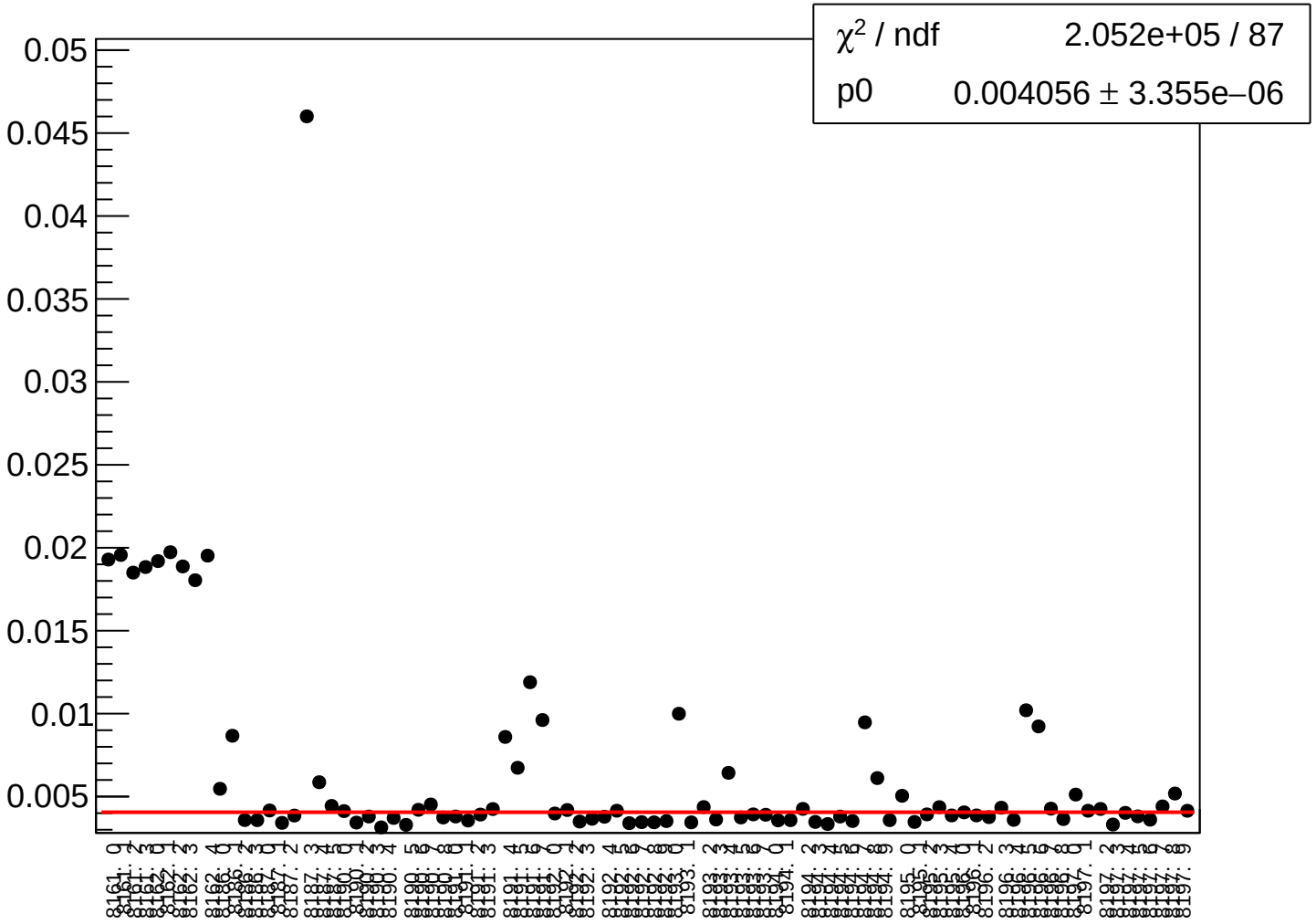

yield_bpm0l07Y_rms vs run
χ² / ndf 5.918e+04 / 87
p0 0.003099 ± 2.444e−06
0.007
0.006
0.005
0.004
0.003

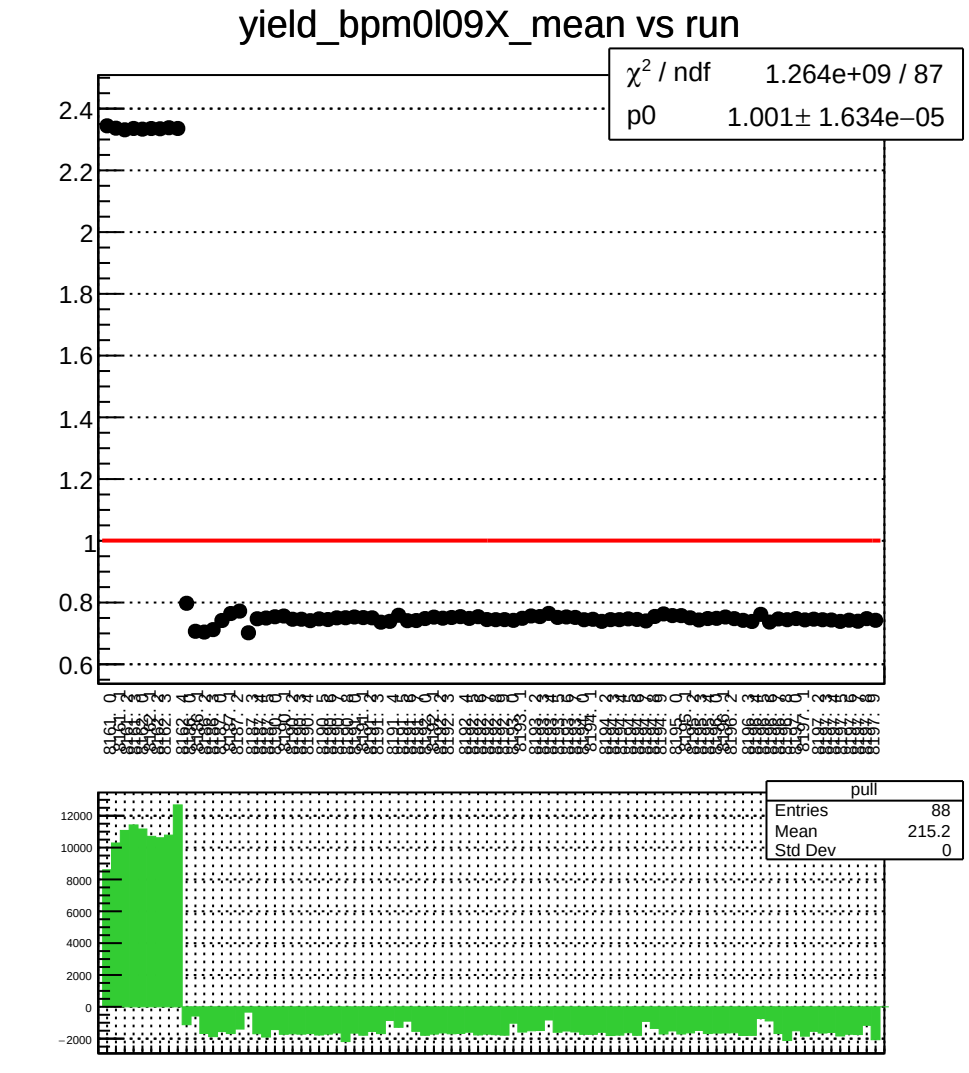

yield_bpm0l08X_mean vs run
χ² / ndf 1.001e+09 / 87
p0 0.2836 ± 1.824e−05
pull
Entries 88
Mean −101
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

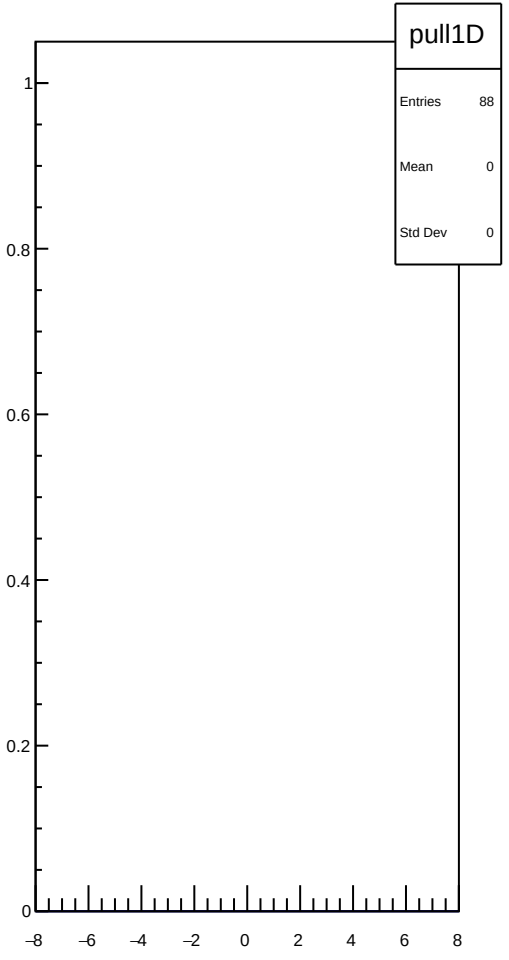

yield_bpm0l08X_rms vs run
χ² / ndf 7.486e+04 / 87
p0 0.01627 ± 1.289e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

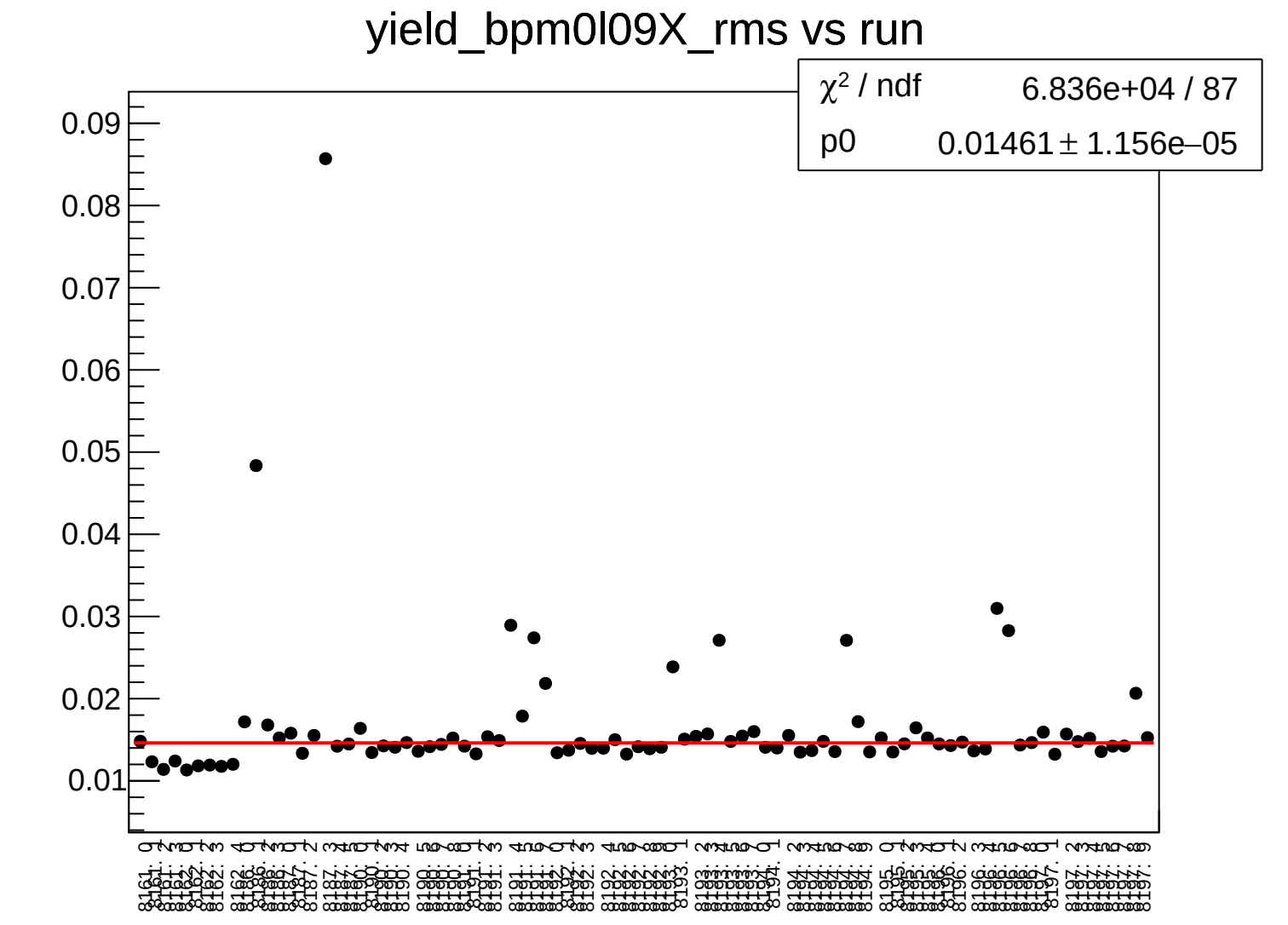

yield_bpm0l08Y_mean vs run
χ² / ndf 5.711e+09 / 87
p0 0.2407 ± 4.745e−06
pull
Entries 88
Mean −8.503
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

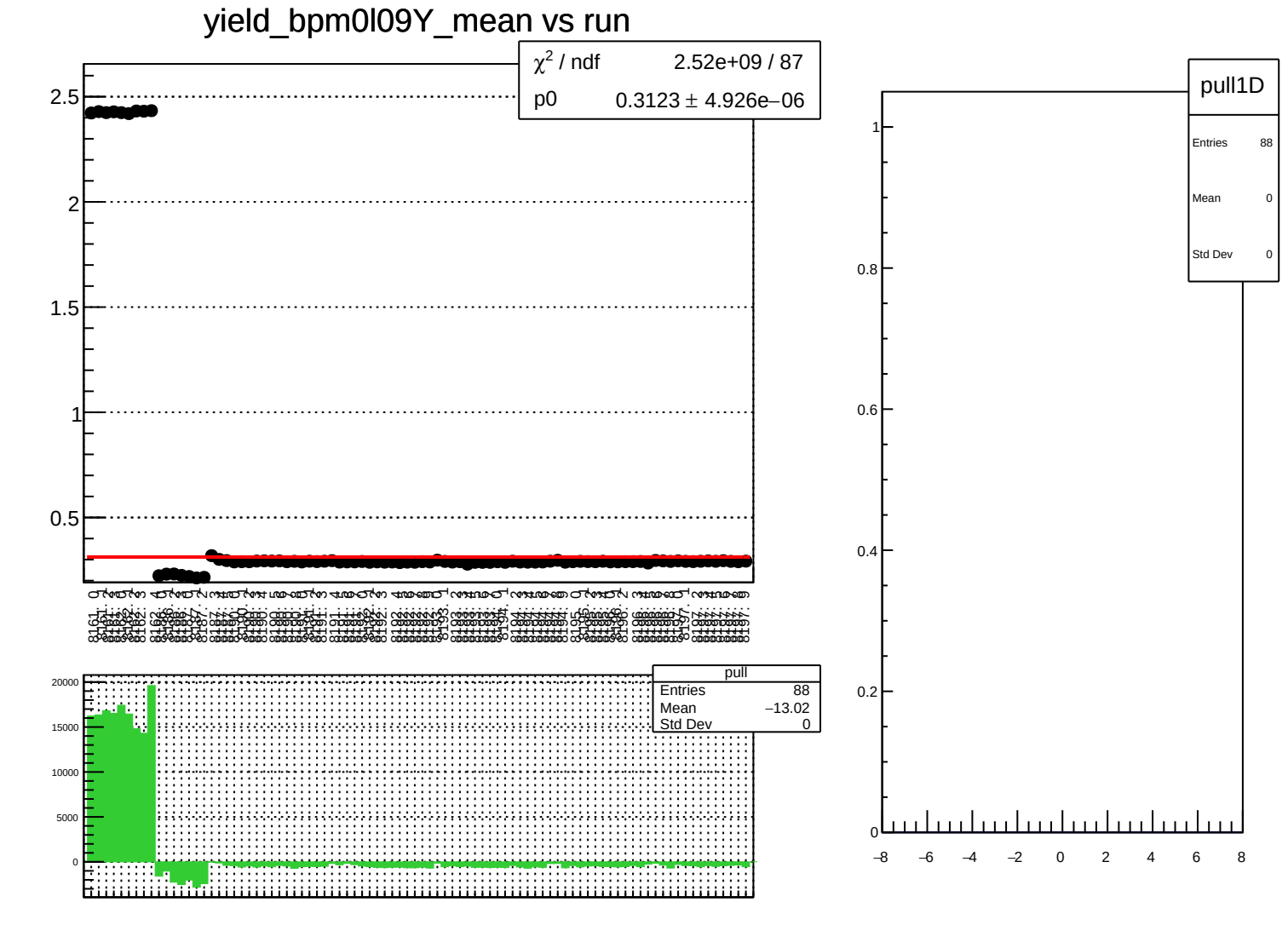
yield_bpm0l08Y_rms vs run

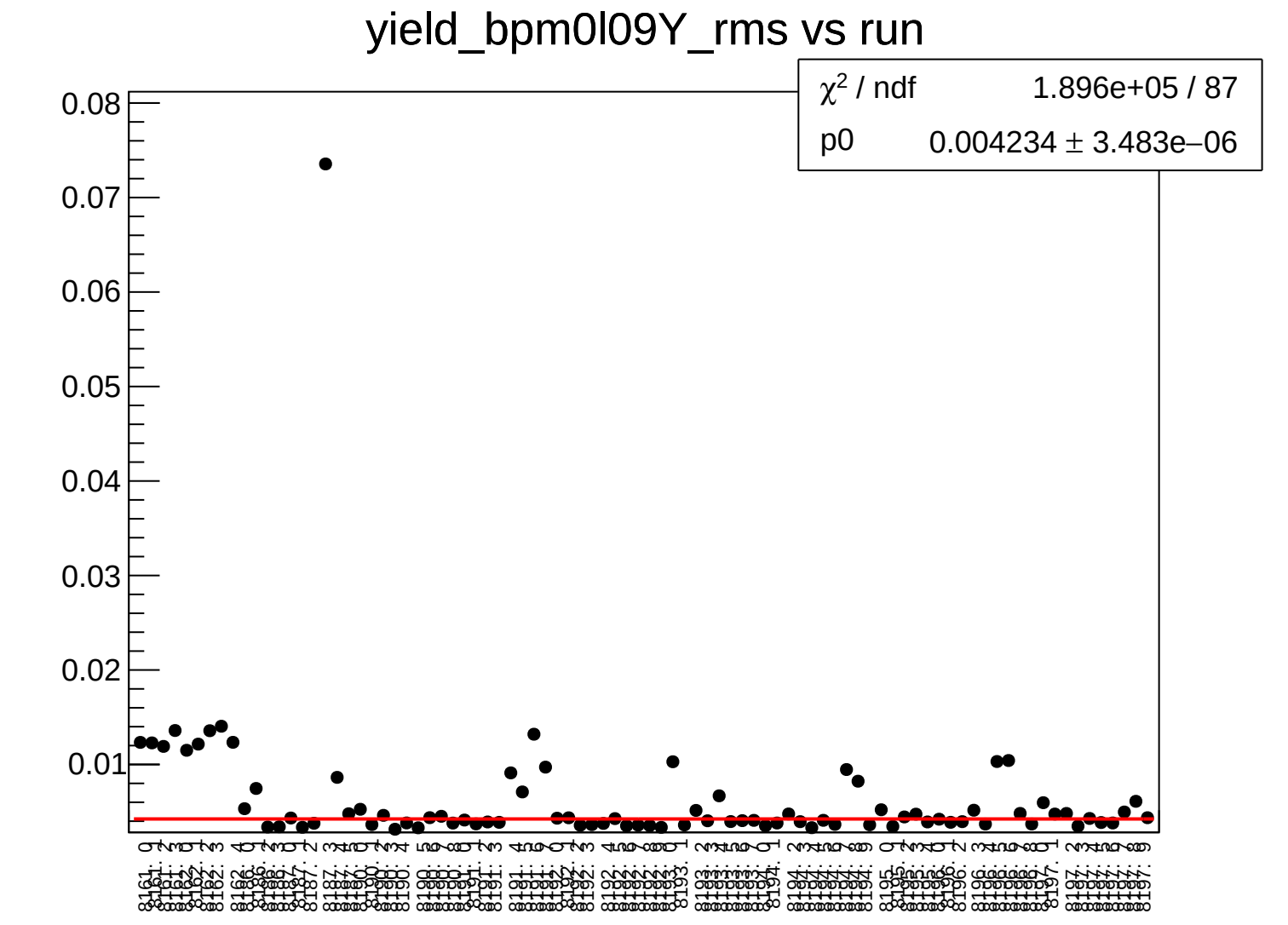


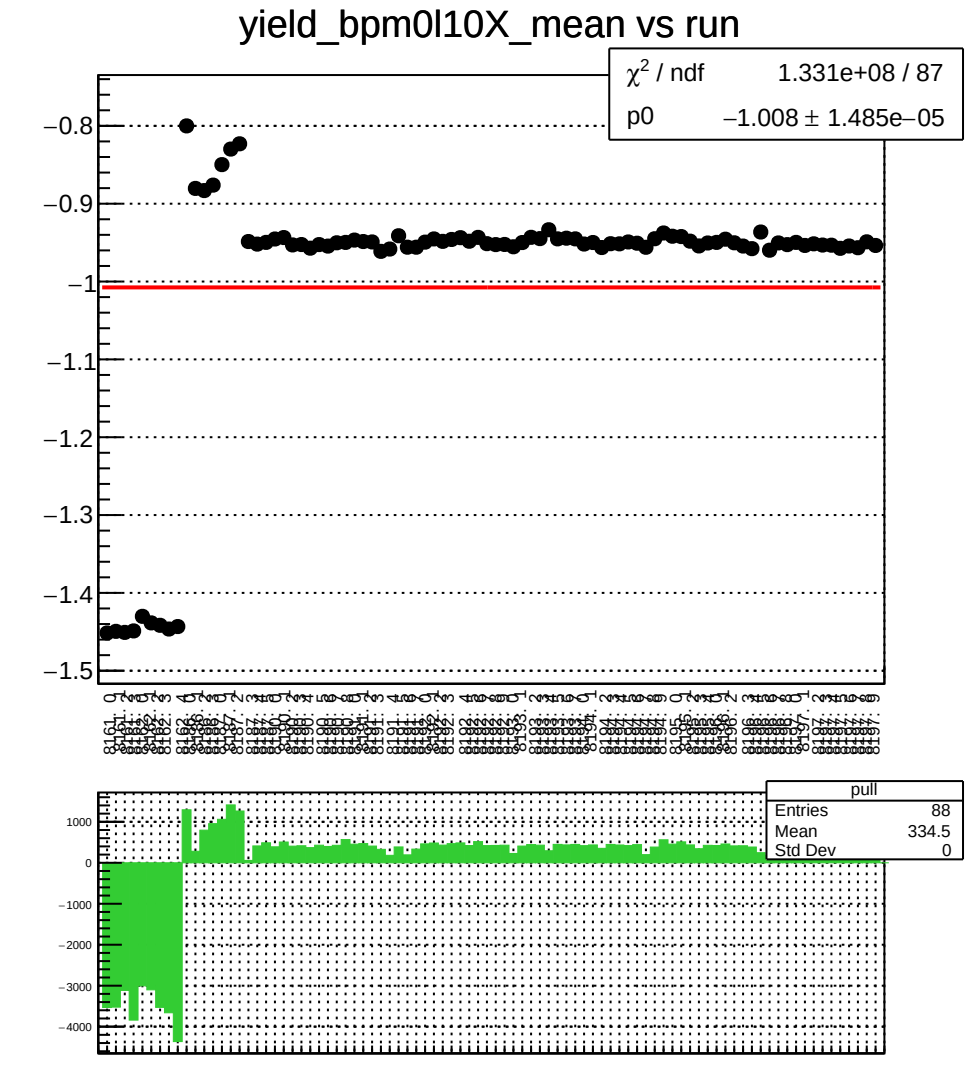

yield_bpm0l09X_mean vs run
χ² / ndf 1.264e+09 / 87
p0 1.001± 1.634e−05
pull
Entries 88
Mean 215.2
Std Dev 0

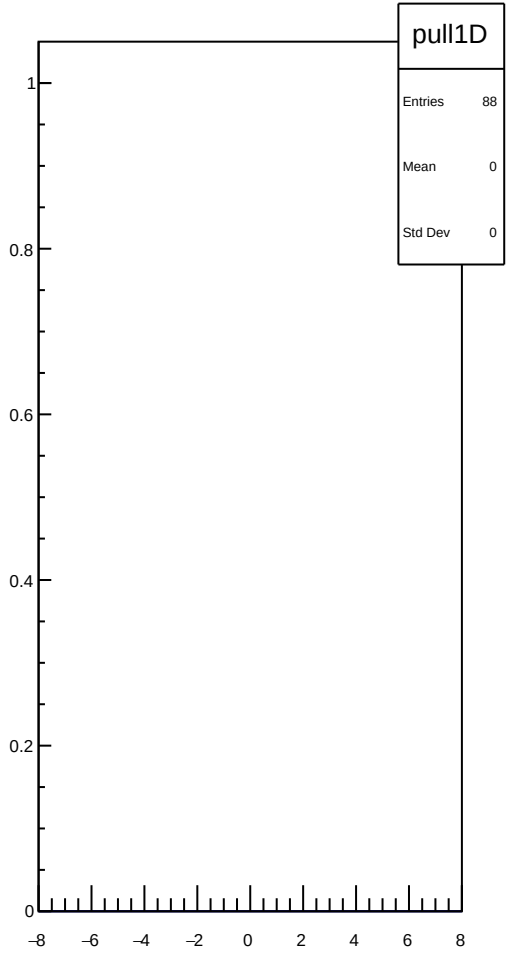

pull1D
Entries 88
Mean 0
Std Dev 0

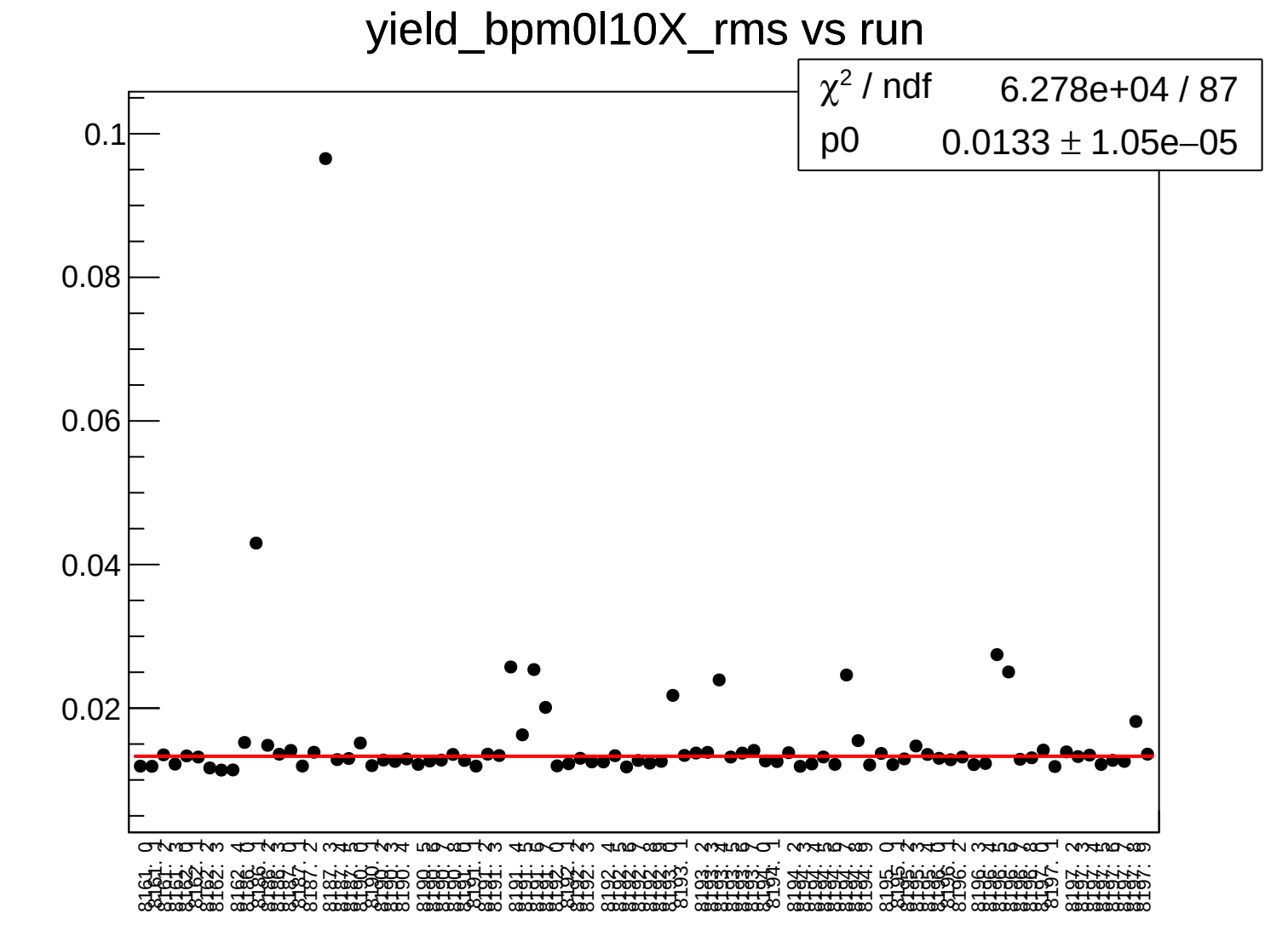

yield_bpm0l09X_rms vs run
χ² / ndf 6.836e+04 / 87
p0 0.01461 ± 1.156e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

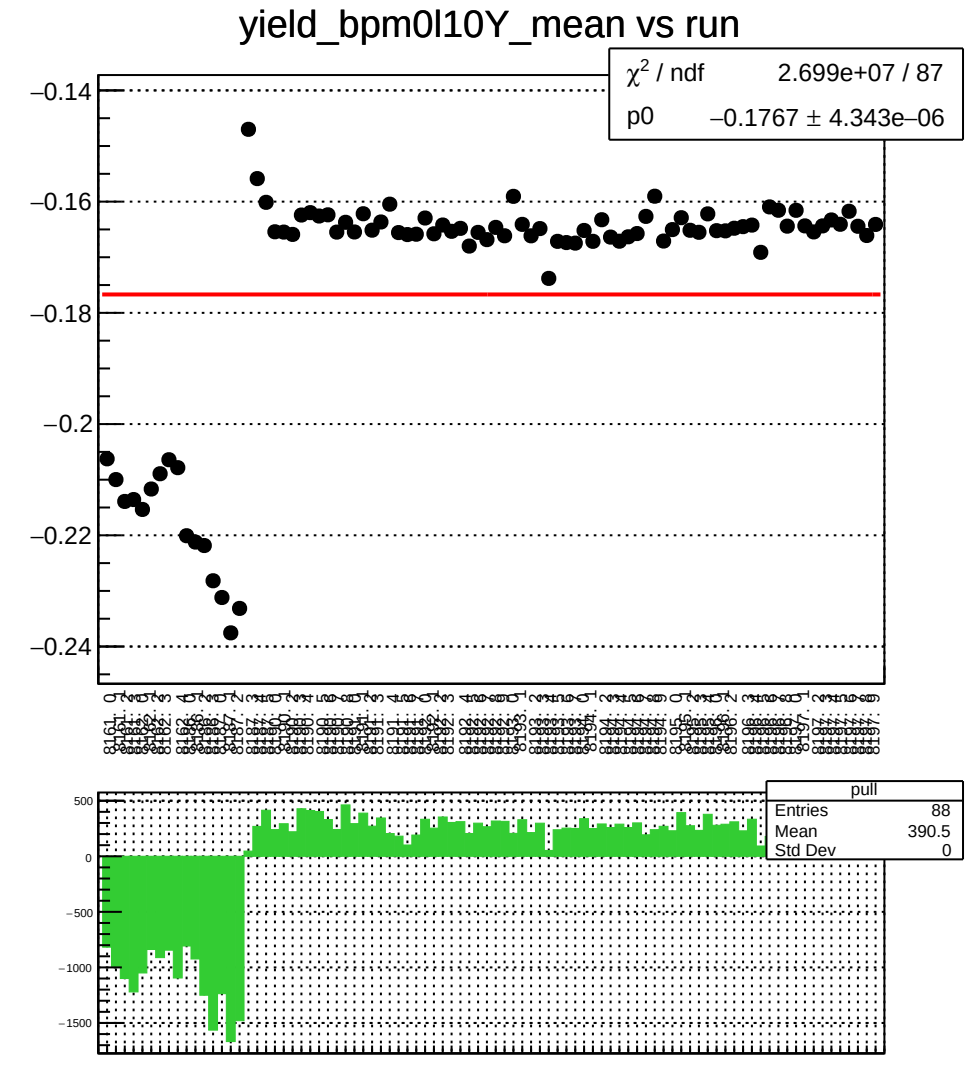

yield_bpm0l09Y_mean vs run
χ² / ndf 2.52e+09 / 87
p0 0.3123 ± 4.926e−06
pull
Entries 88
Mean −13.02
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

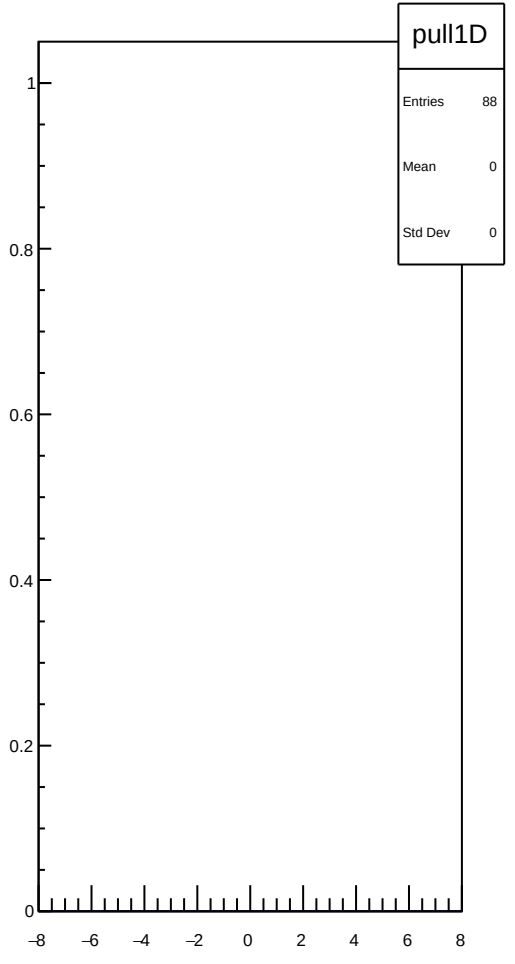

yield_bpm0l09Y_rms vs run
χ² / ndf 1.896e+05 / 87
p0 0.004234 ± 3.483e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

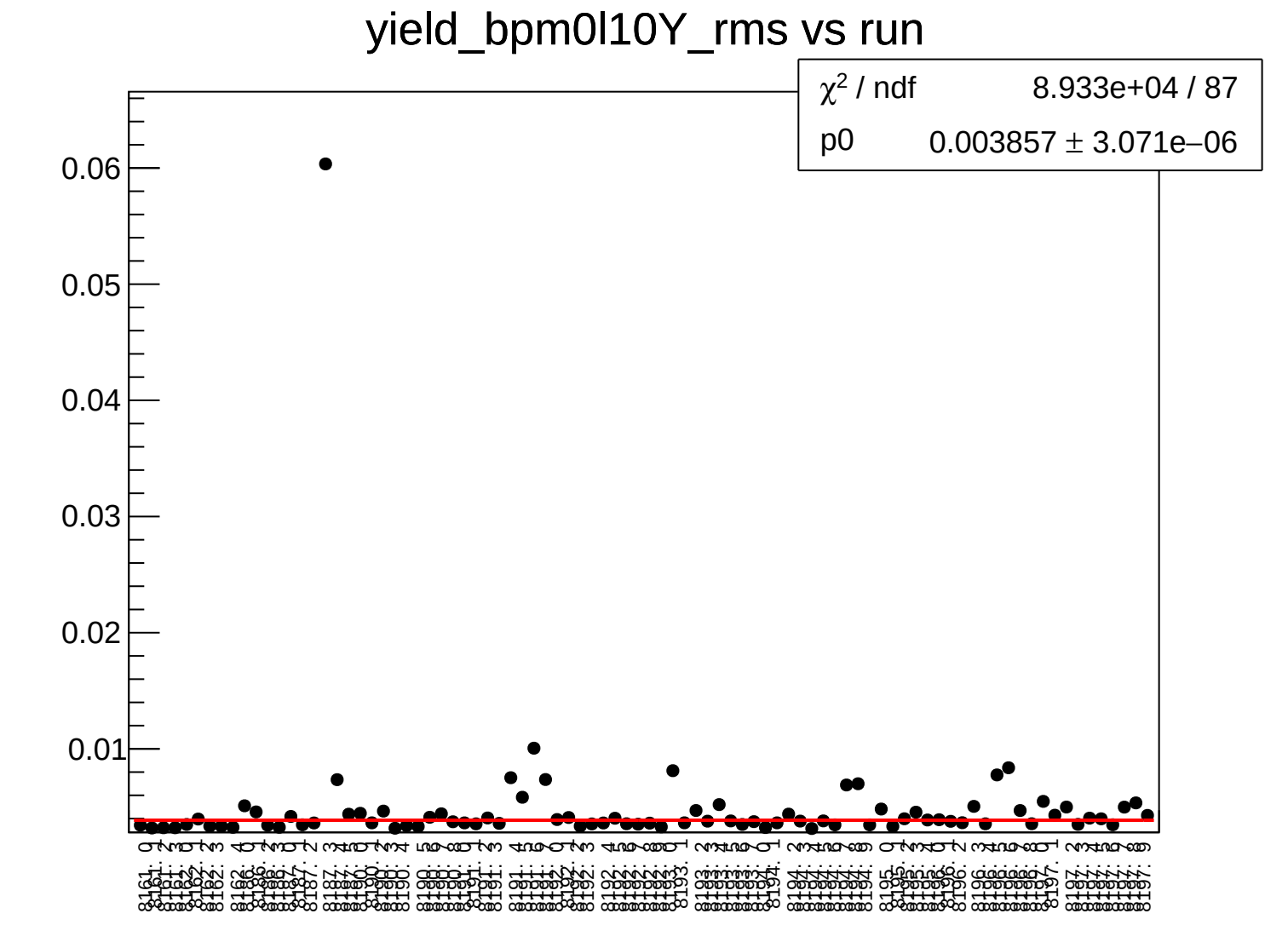

yield_bpm0l10X_mean vs run
χ² / ndf 1.331e+08 / 87
p0 −1.008 ± 1.485e−05
−0.8
−0.9
−1
−1.1
−1.2
−1.3
−1.4
−1.5
pull
Entries 88
Mean 334.5
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

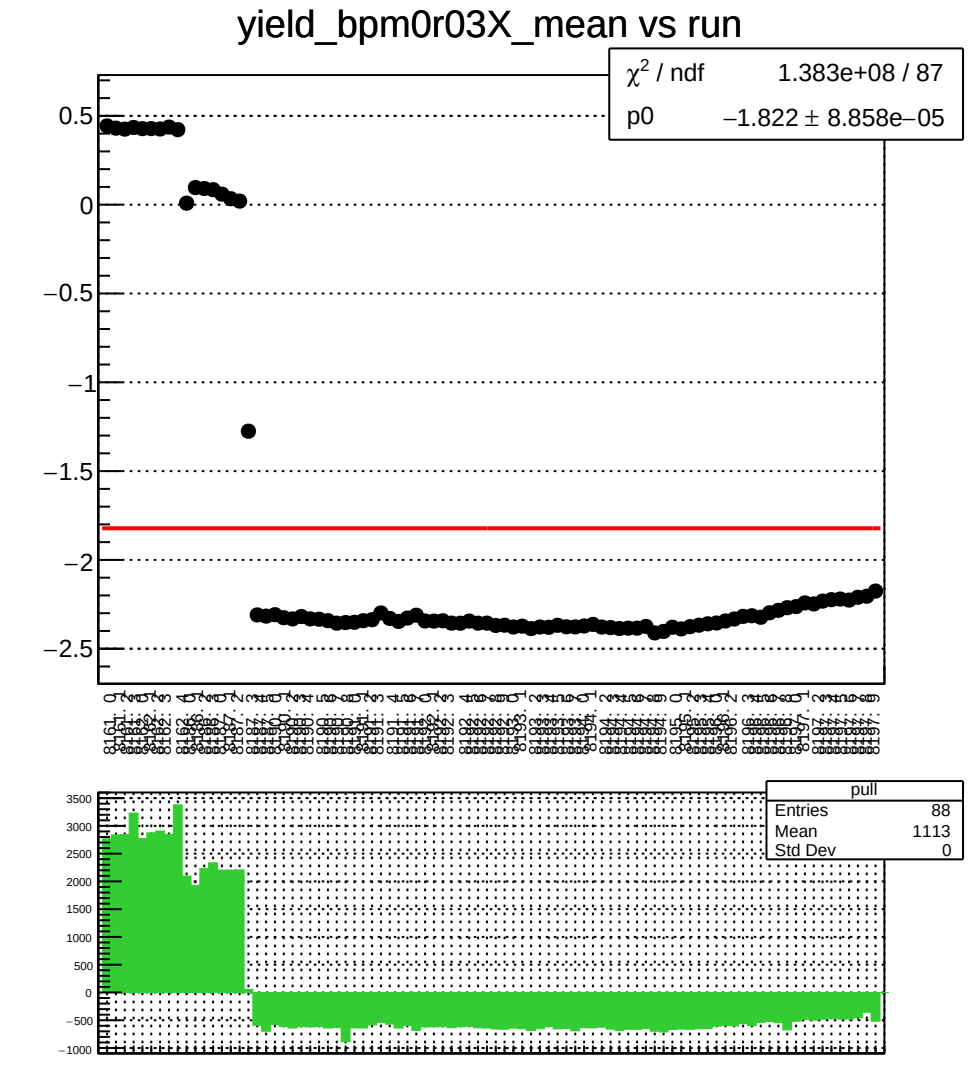

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

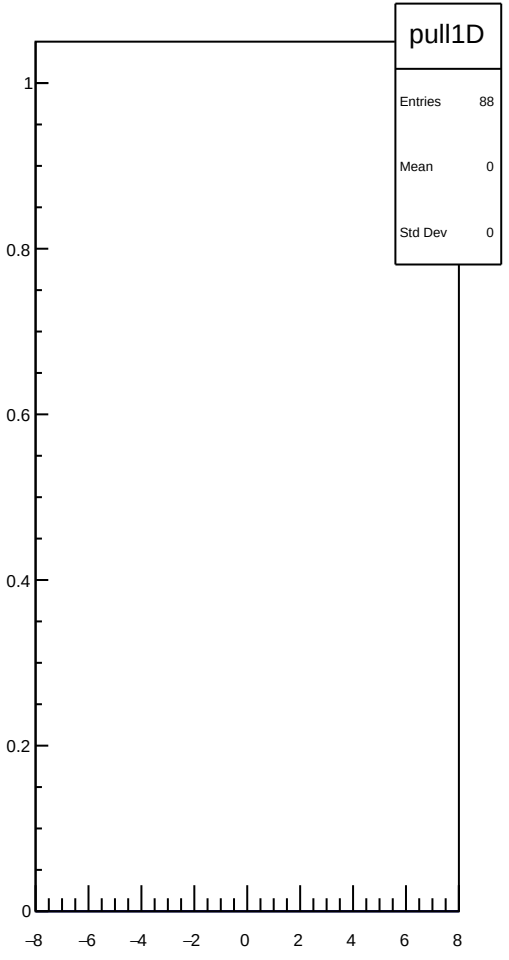

yield_bpm0l10X_rms vs run
χ^2 / ndf 6.278e+04 / 87
p0 0.0133 ± 1.05e−05
0.1
0.08
0.06
0.04
0.02

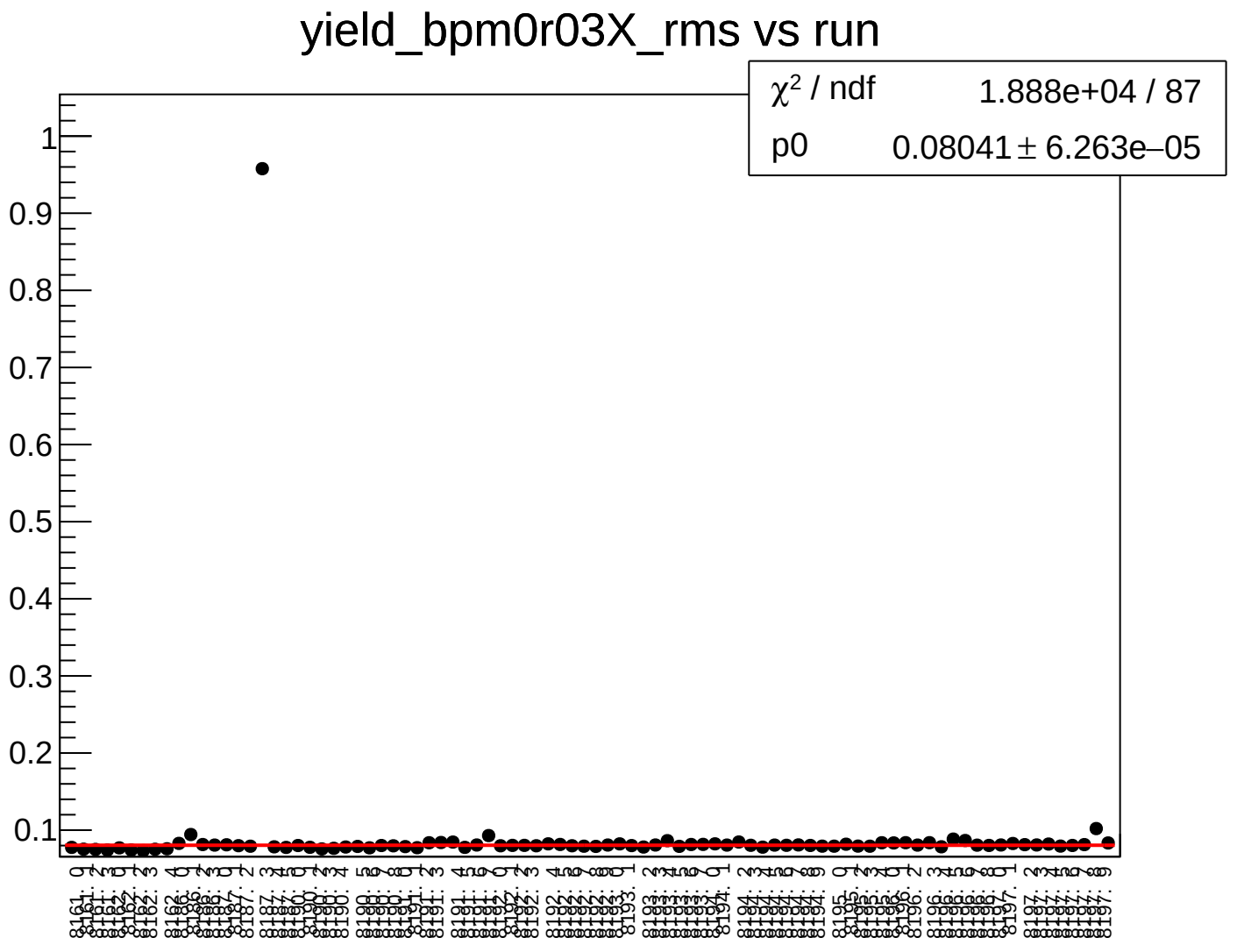

yield_bpm0l10Y_mean vs run
χ² / ndf 2.699e+07 / 87
p0 −0.1767 ± 4.343e−06
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
pull
Entries 88
Mean 390.5
Std Dev 0
500
0
−500
−1000
−1500

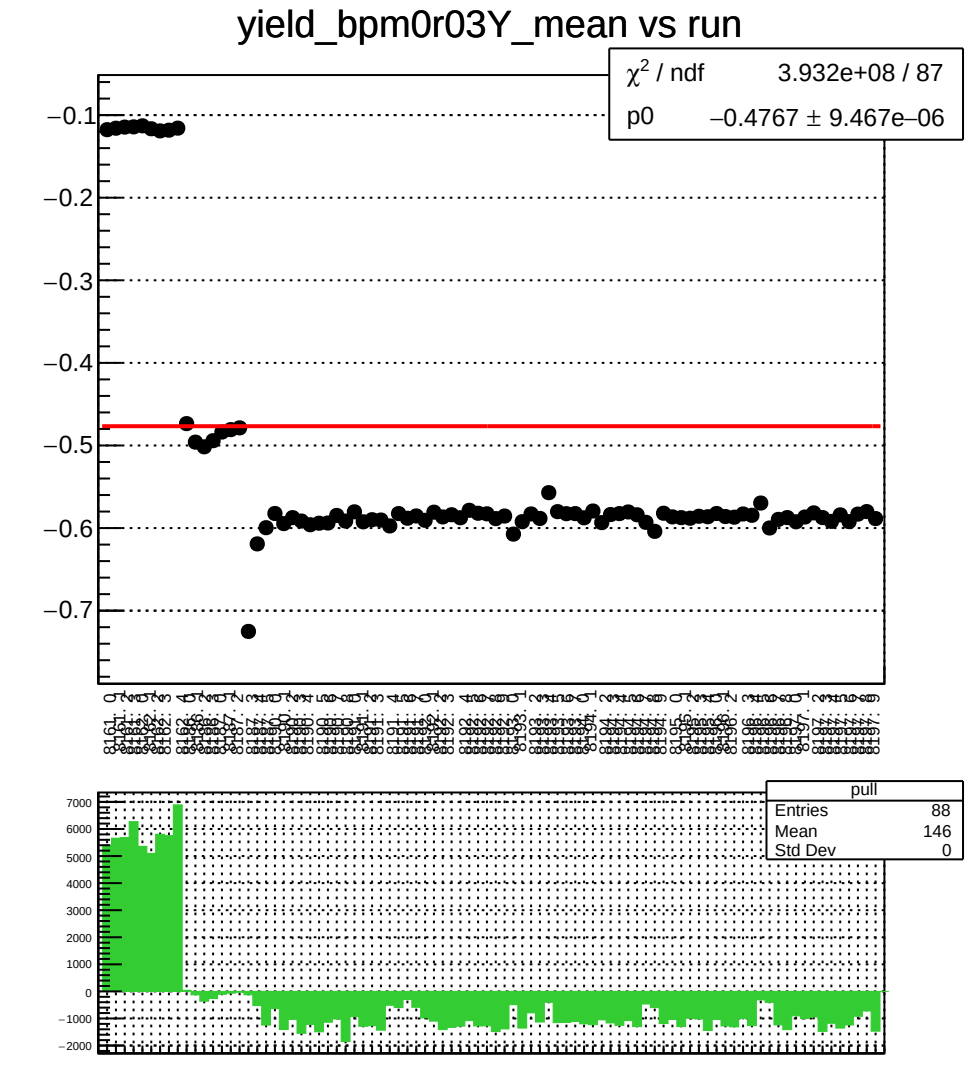

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

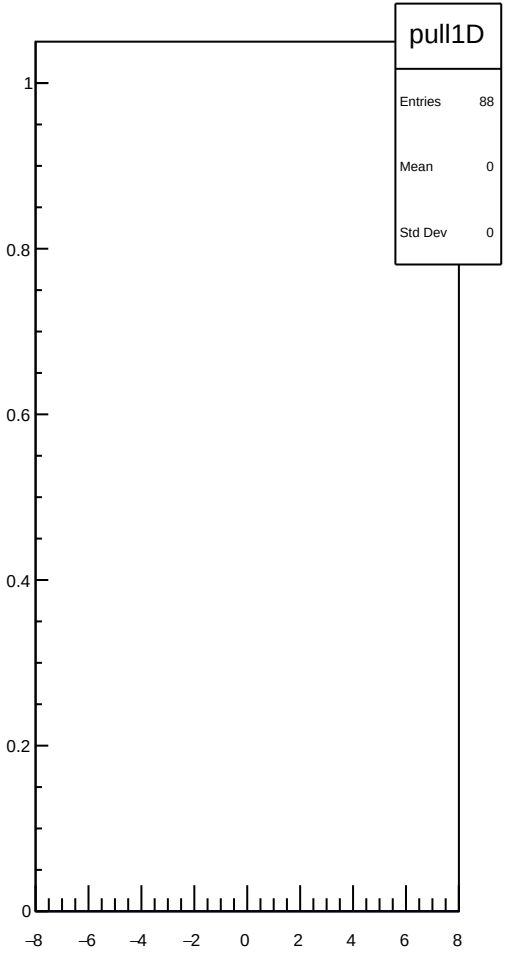

yield_bpm0l10Y_rms vs run
χ² / ndf 8.933e+04 / 87
p0 0.003857 ± 3.071e−06
0.06
0.05
0.04
0.03
0.02
0.01

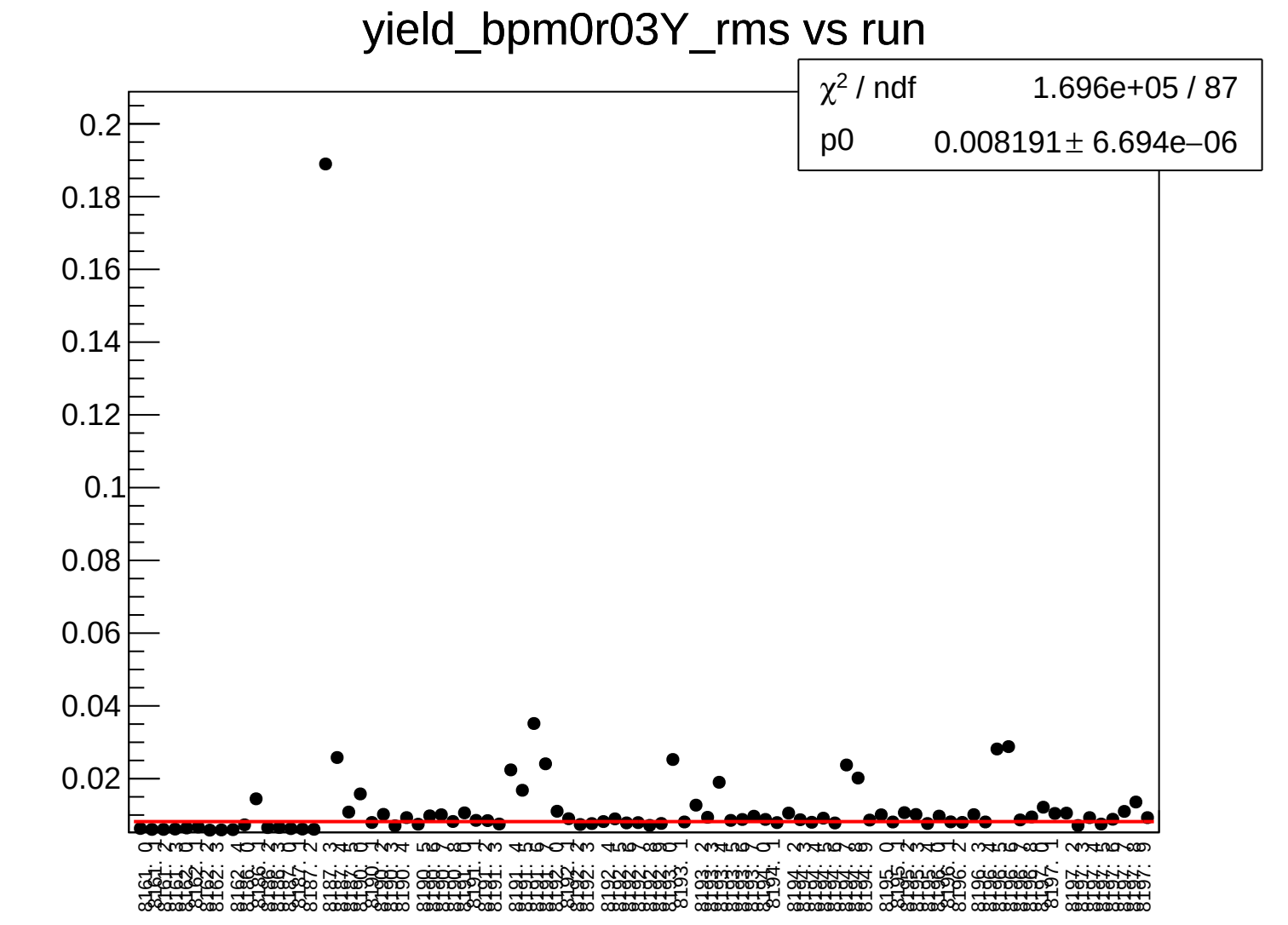

yield_bpm0r03X_mean vs run
χ² / ndf 1.383e+08 / 87
p0 −1.822 ± 8.858e−05
pull
Entries 88
Mean 1113
Std Dev 0

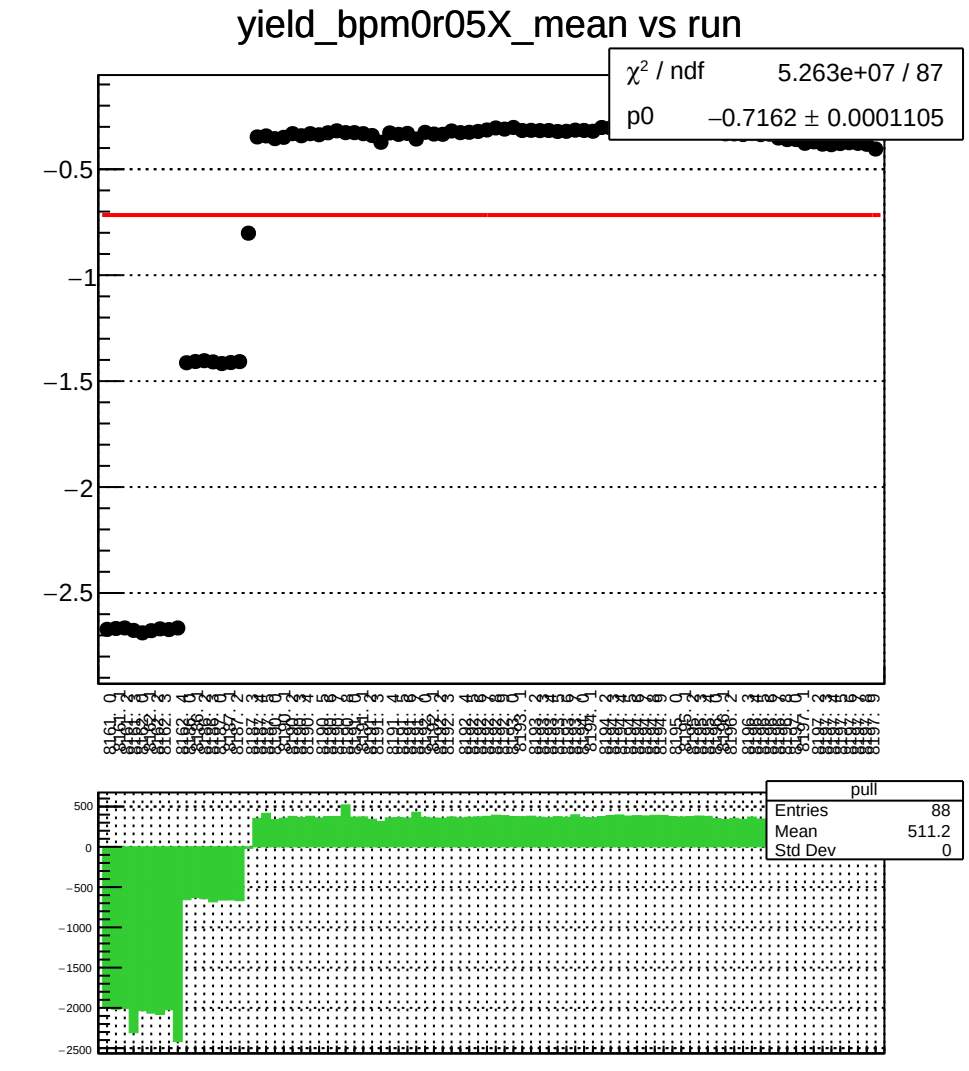

pull1D
Entries 88
Mean 0
Std Dev 0

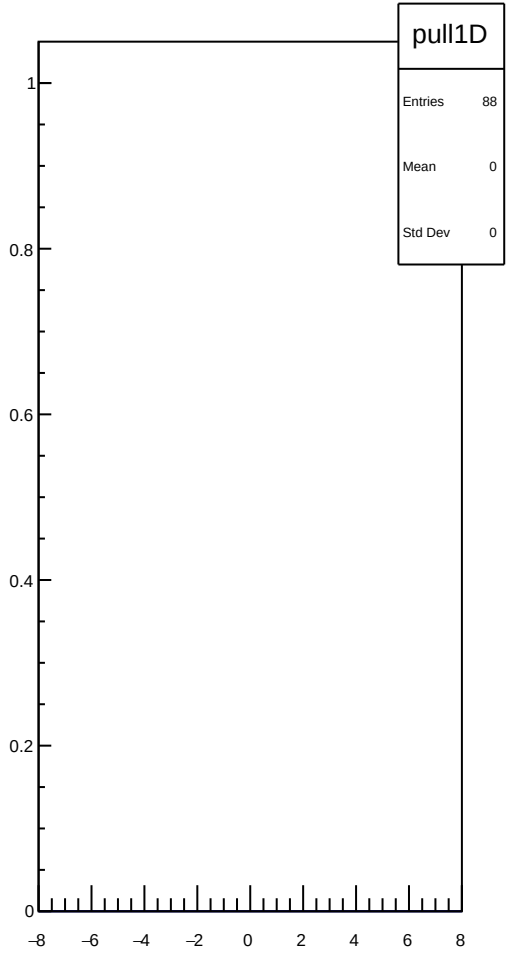

yield_bpm0r03X_rms vs run
χ² / ndf 1.888e+04 / 87
p0 0.08041 ± 6.263e–05
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

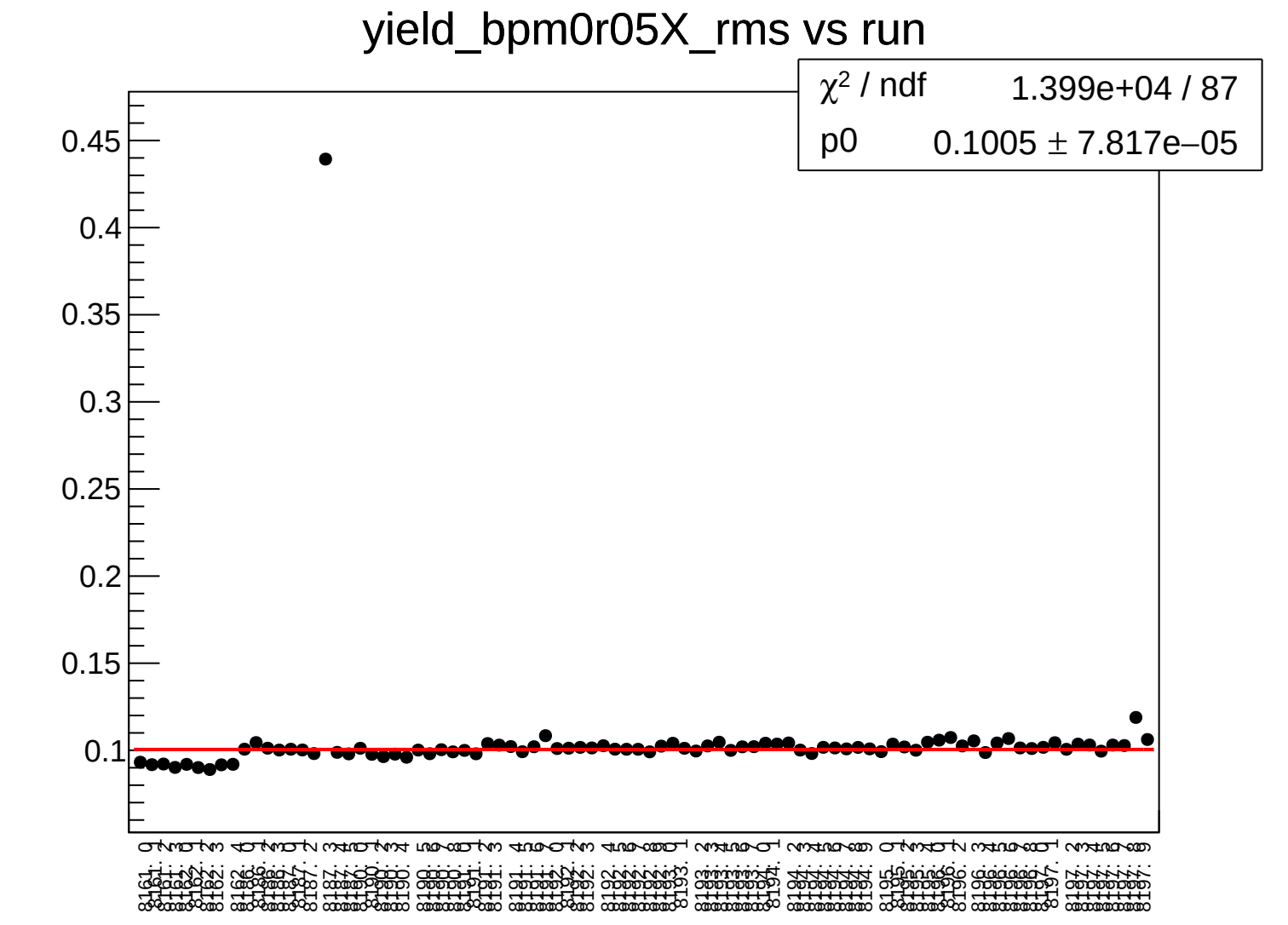

yield_bpm0r03Y_mean vs run
χ² / ndf 3.932e+08 / 87
p0 −0.4767 ± 9.467e−06
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 88
Mean 146
Std Dev 0
7000
6000
5000
4000
3000
2000
1000
0
−1000
−2000

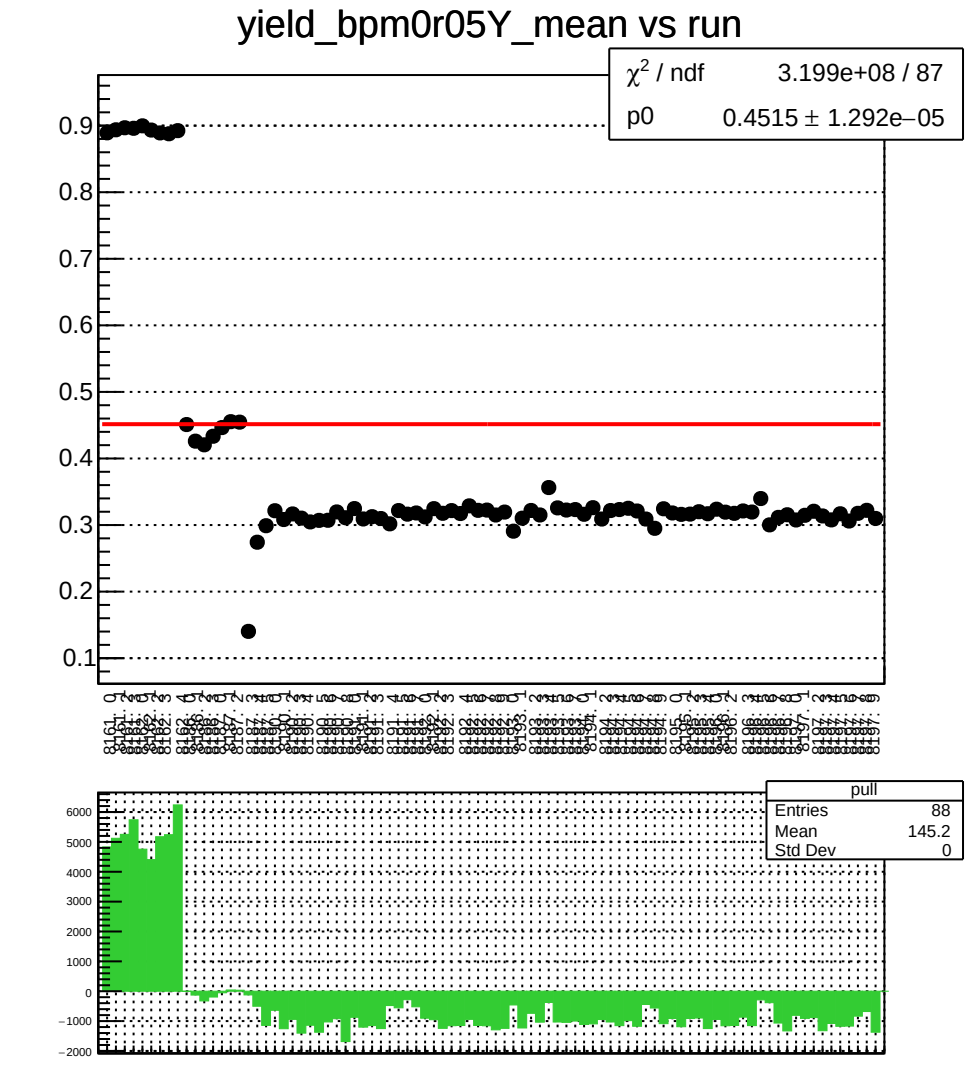

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

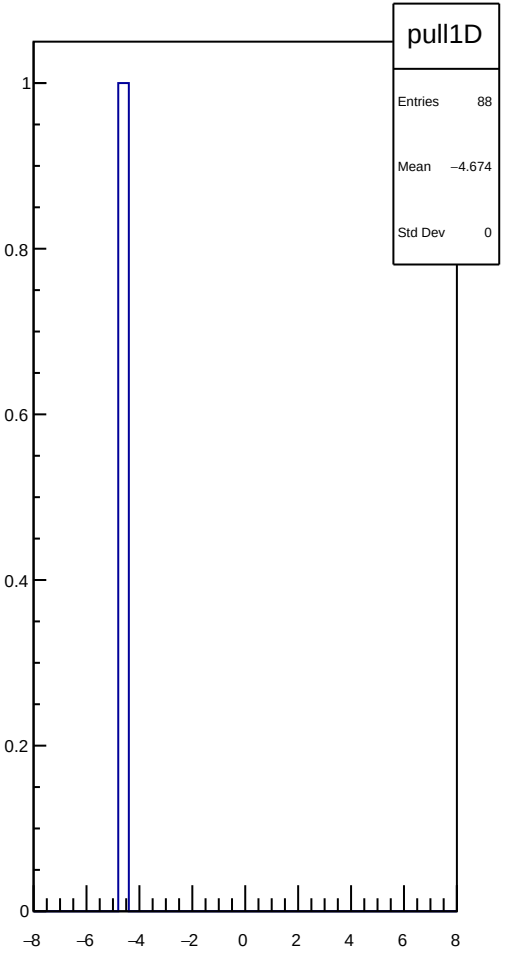

yield_bpm0r03Y_rms vs run
χ² / ndf 1.696e+05 / 87
p0 0.008191 ± 6.694e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

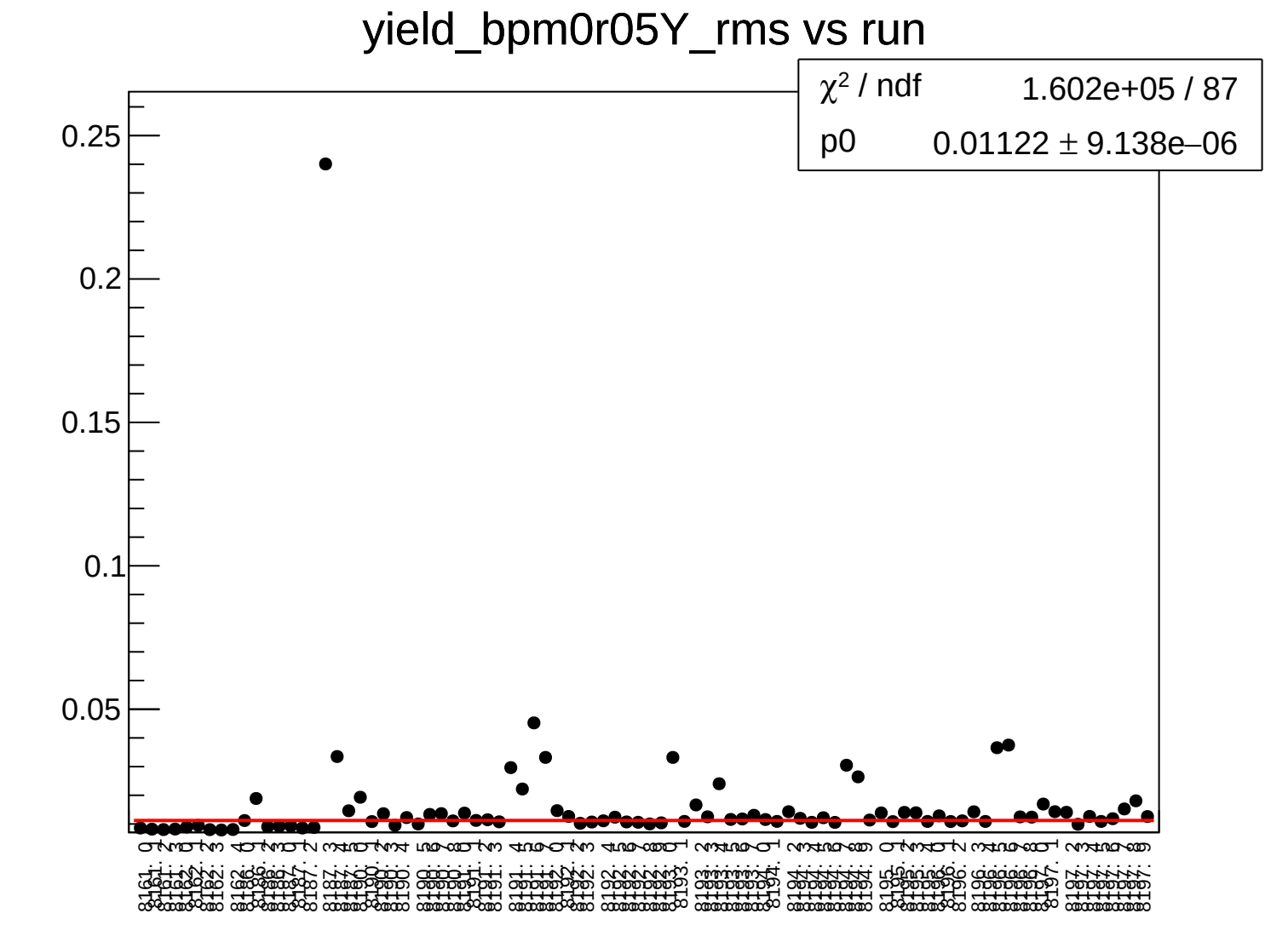

yield_bpm0r05X_mean vs run
χ² / ndf 5.263e+07 / 87
p0 −0.7162 ± 0.0001105
−0.5
−1
−1.5
−2
−2.5
pull
Entries 88
Mean 511.2
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

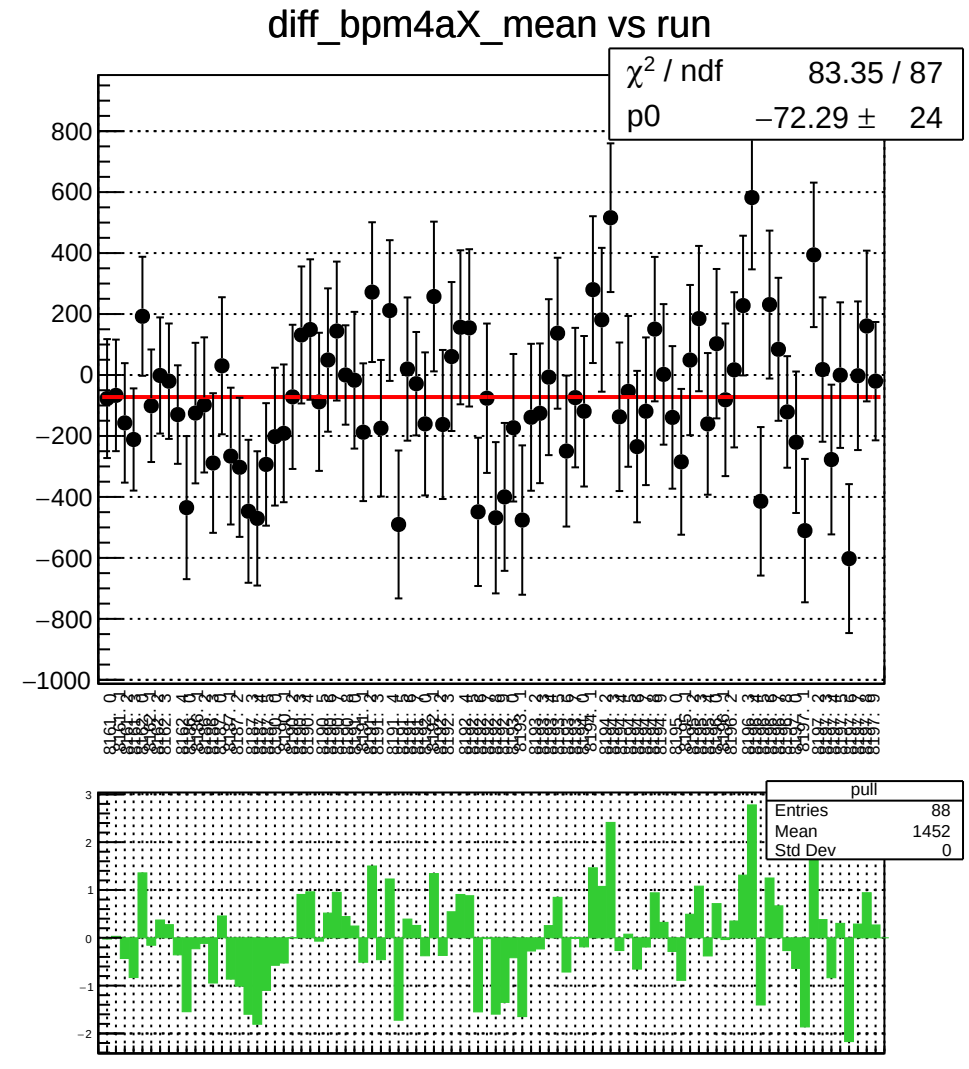

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

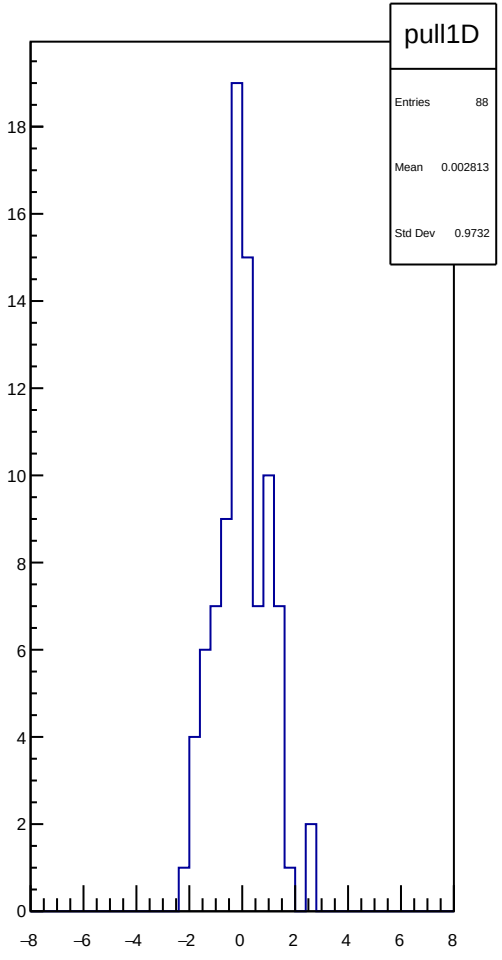

yield_bpm0r05X_rms vs run
χ² / ndf 1.399e+04 / 87
p0 0.1005 ± 7.817e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

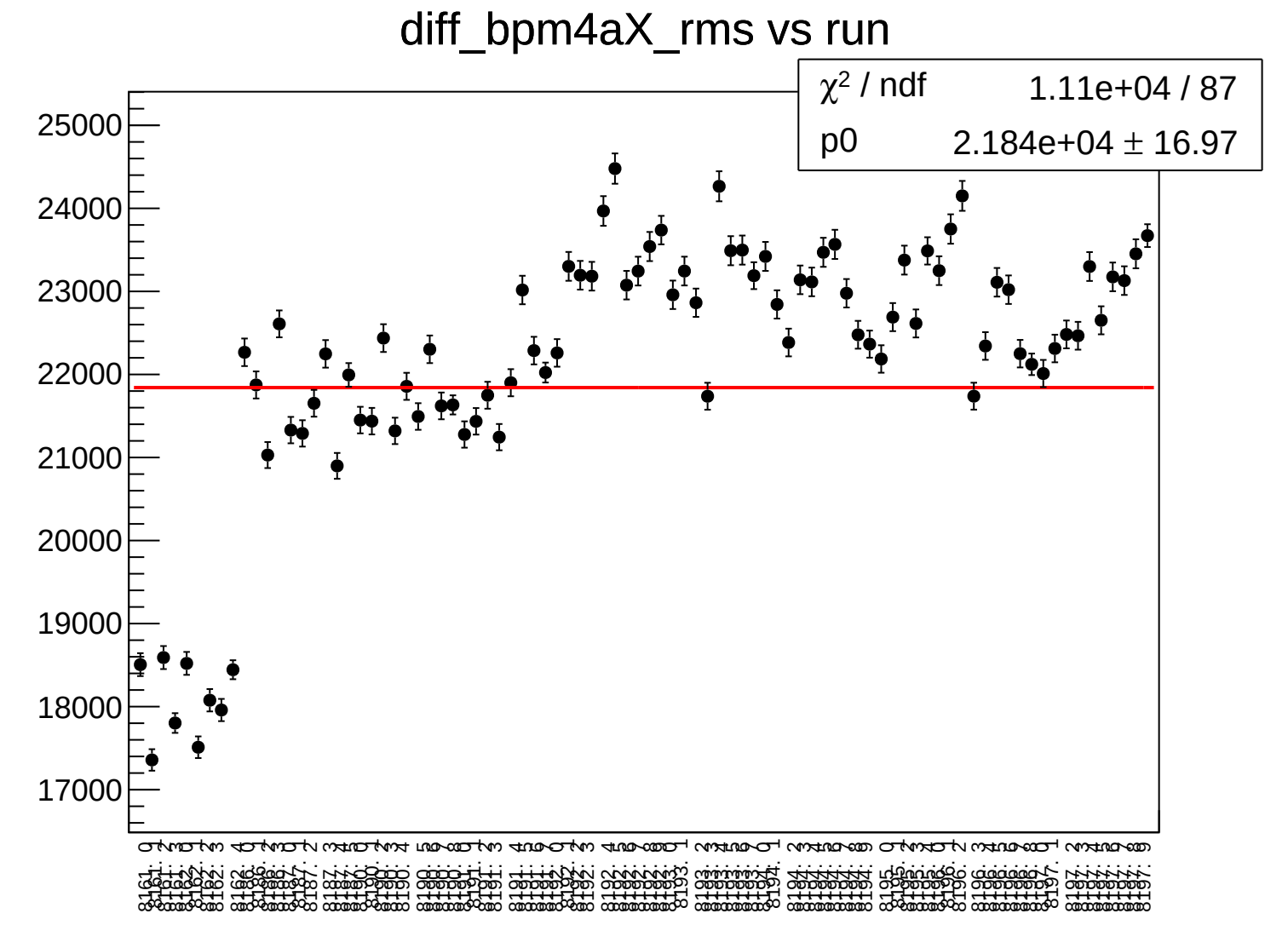

yield_bpm0r05Y_mean vs run
χ² / ndf 3.199e+08 / 87
p0 0.4515 ± 1.292e−05
pull
Entries 88
Mean 145.2
Std Dev 0

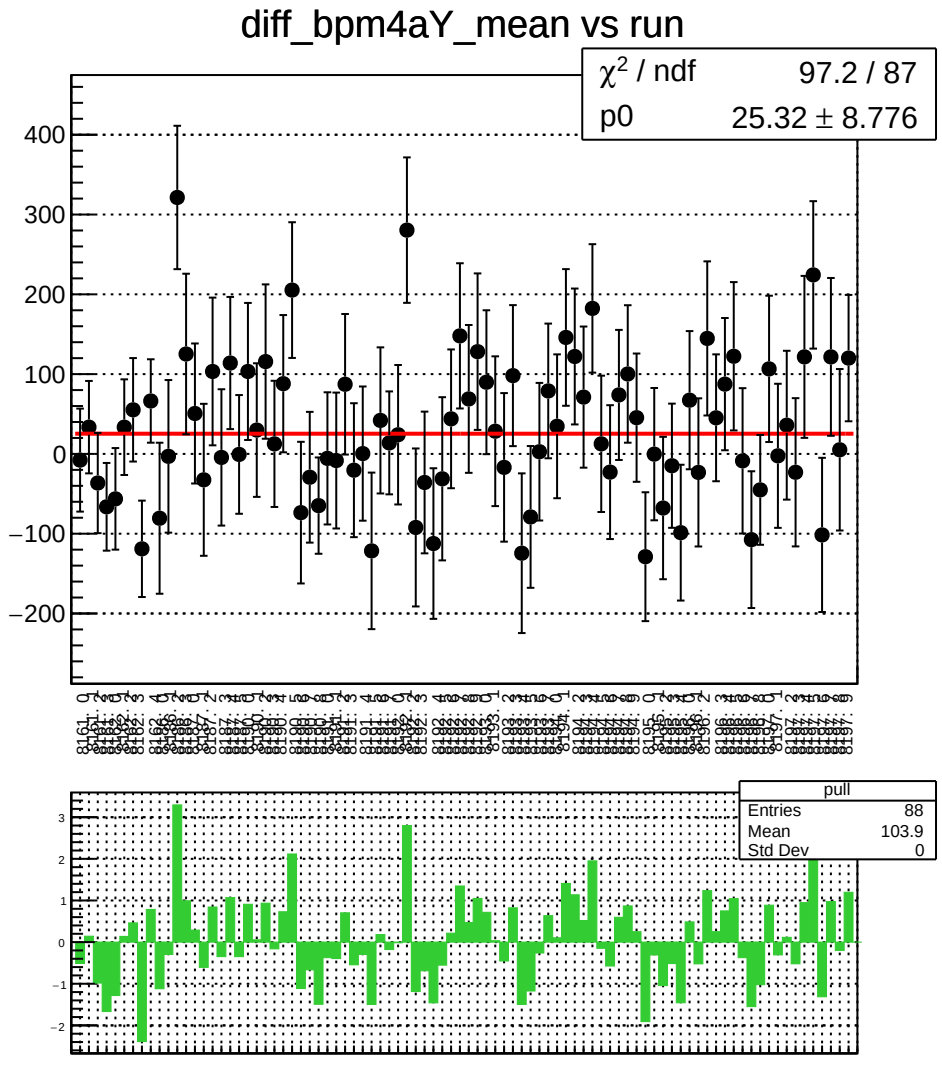

pull1D
Entries 88
Mean −4.674
Std Dev 0

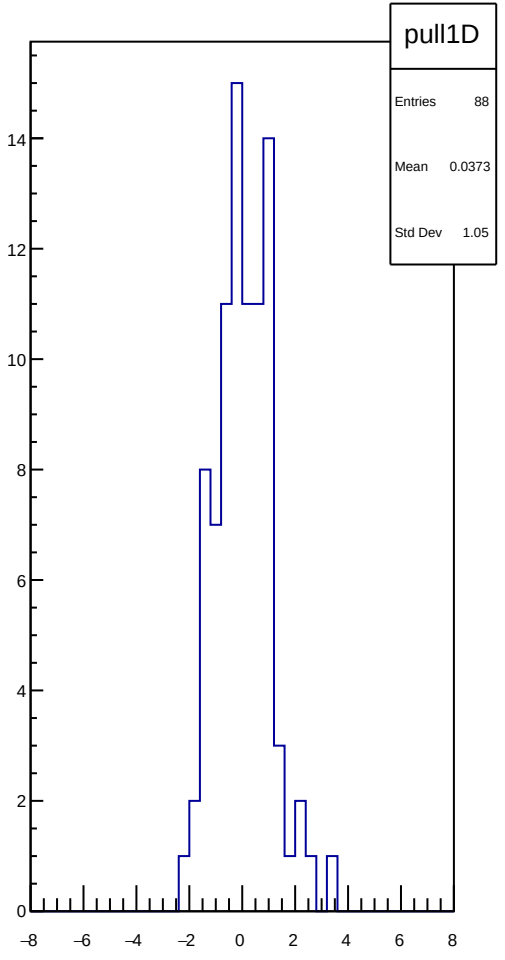

yield_bpm0r05Y_rms vs run
χ² / ndf 1.602e+05 / 87
p0 0.01122 ± 9.138e–06
0.25
0.2
0.15
0.1
0.05

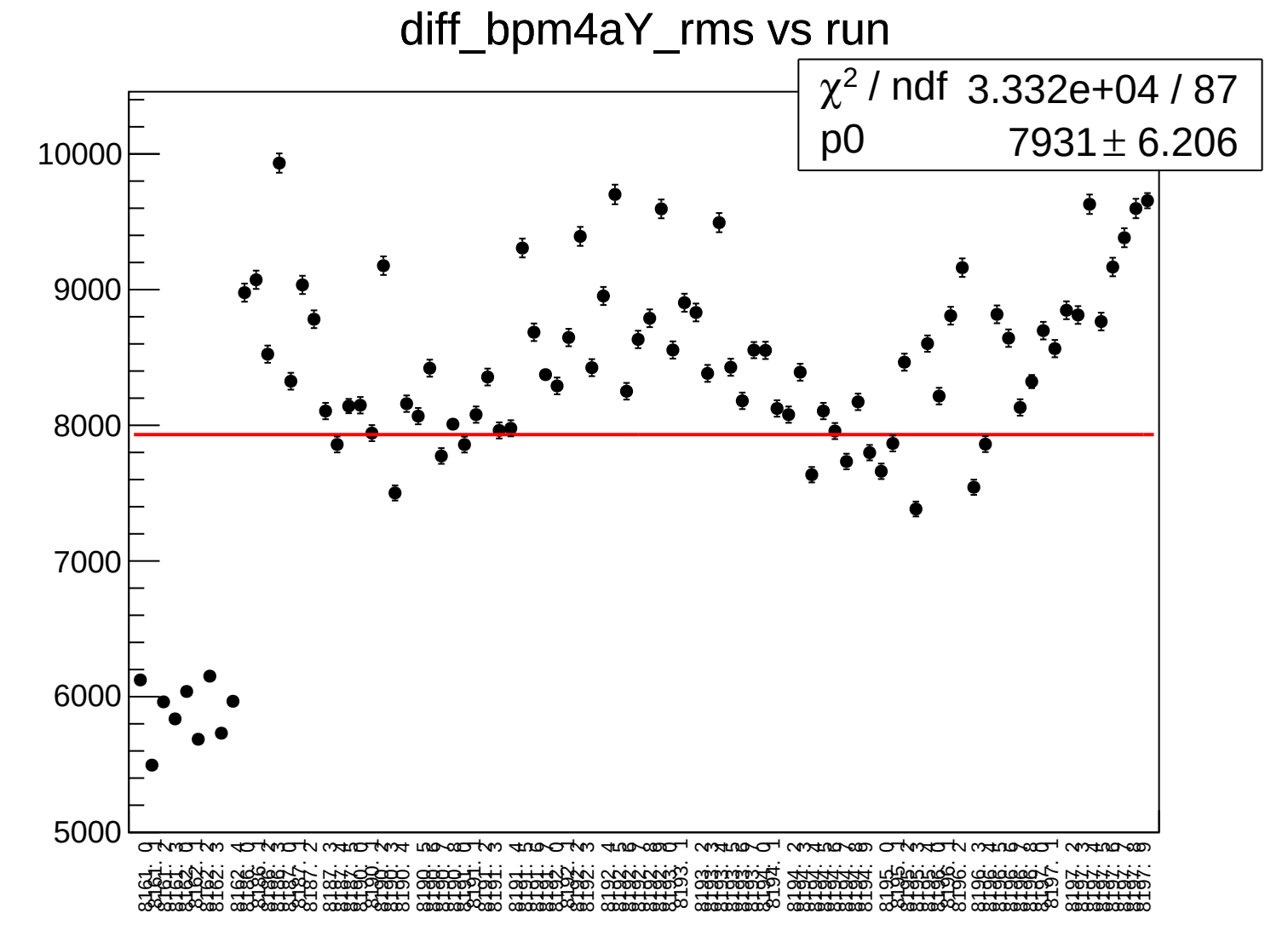

diff_bpm4aX_mean vs run
χ² / ndf 83.35 / 87
p0 −72.29 ± 24
pull
Entries 88
Mean 1452
Std Dev 0

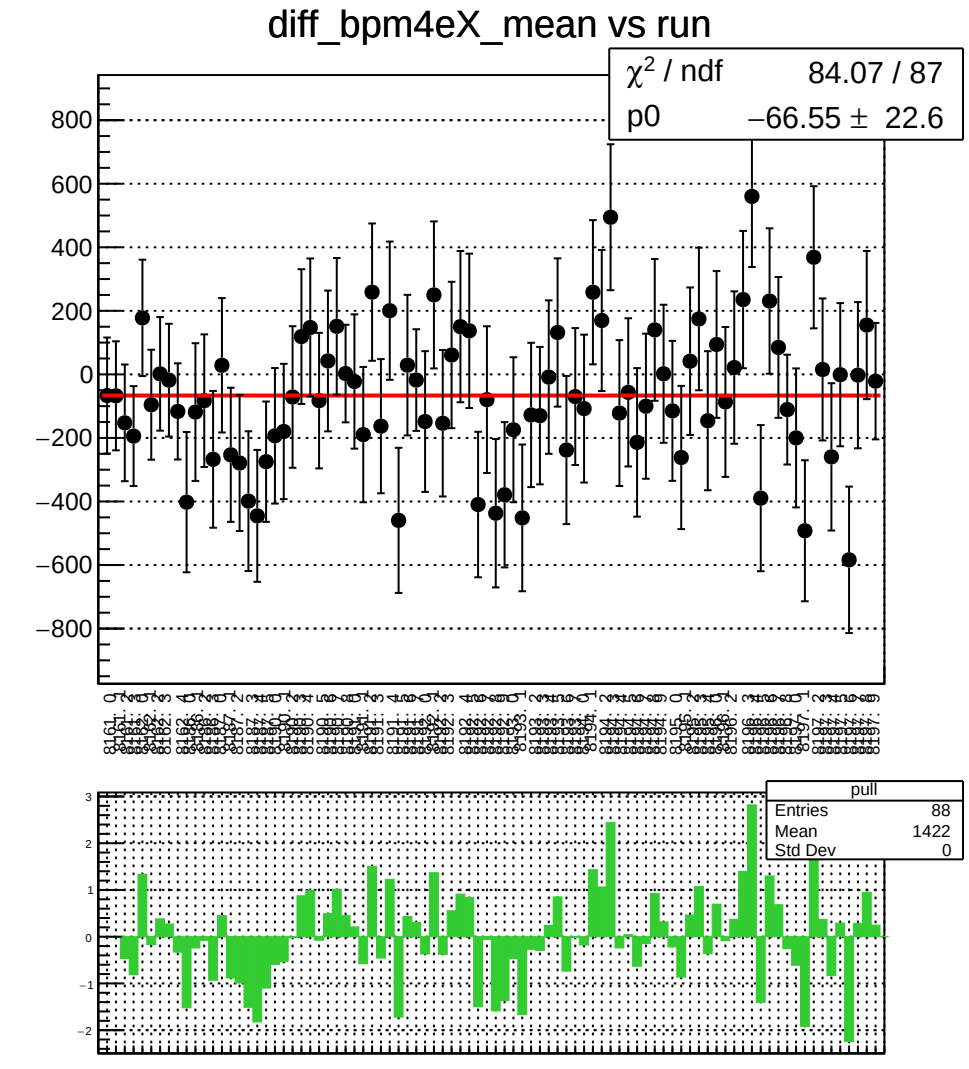

pull1D
Entries 88
Mean 0.002813
Std Dev 0.9732

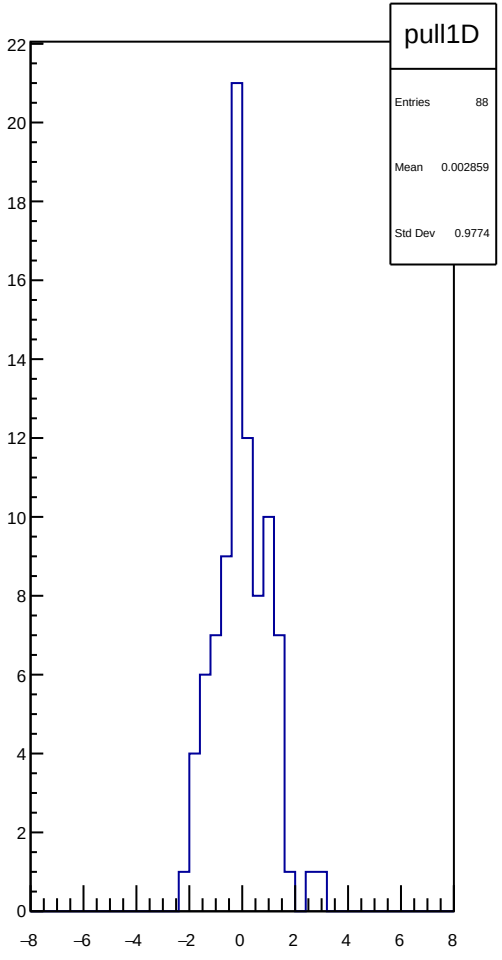

diff_bpm4aX_rms vs run
χ² / ndf 1.11e+04 / 87
p0 2.184e+04 ± 16.97
25000
24000
23000
22000
21000
20000
19000
18000
17000

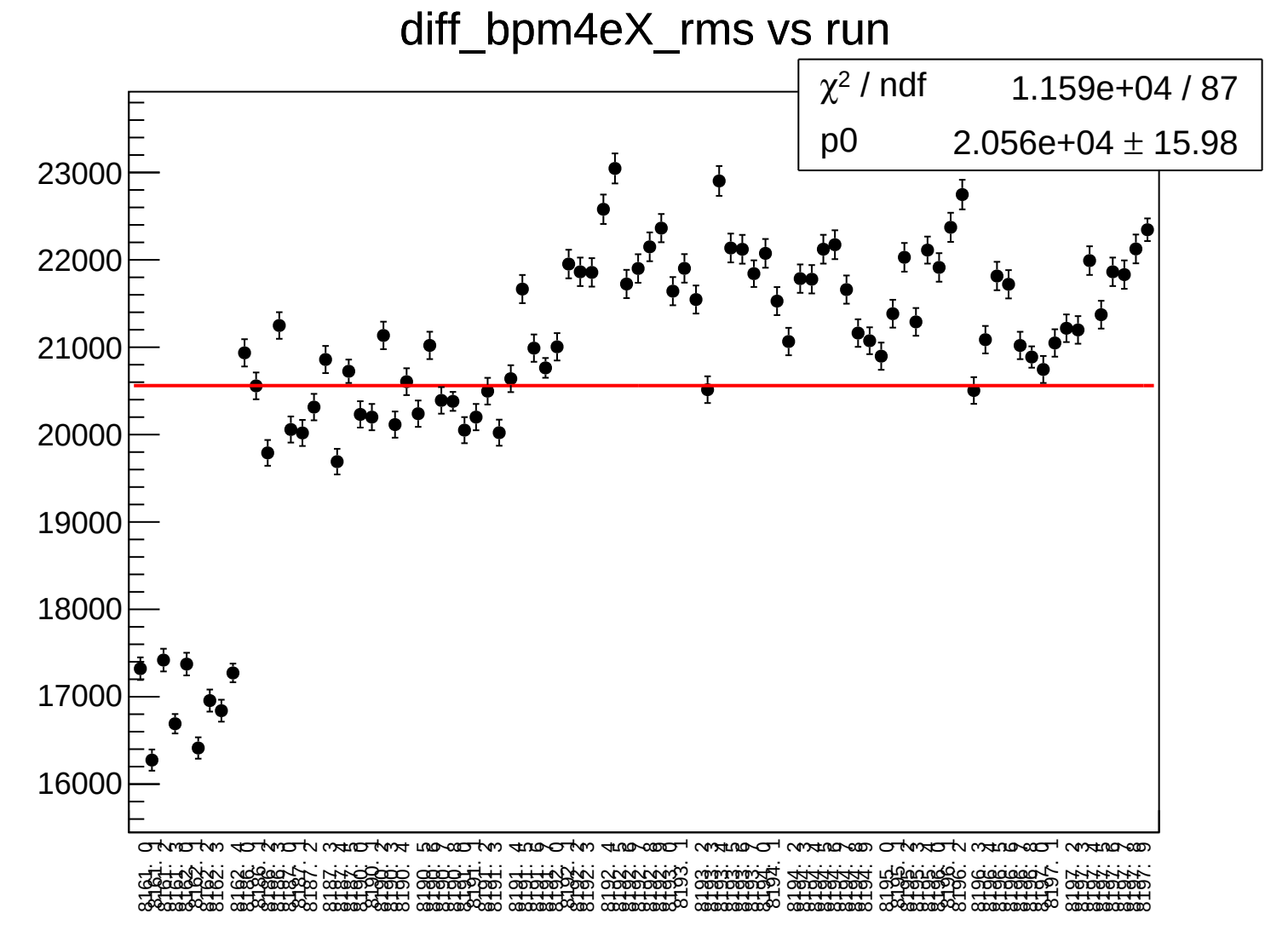

diff_bpm4aY_mean vs run
χ² / ndf 97.2 / 87
p0 25.32 ± 8.776
pull
Entries 88
Mean 103.9
Std Dev 0

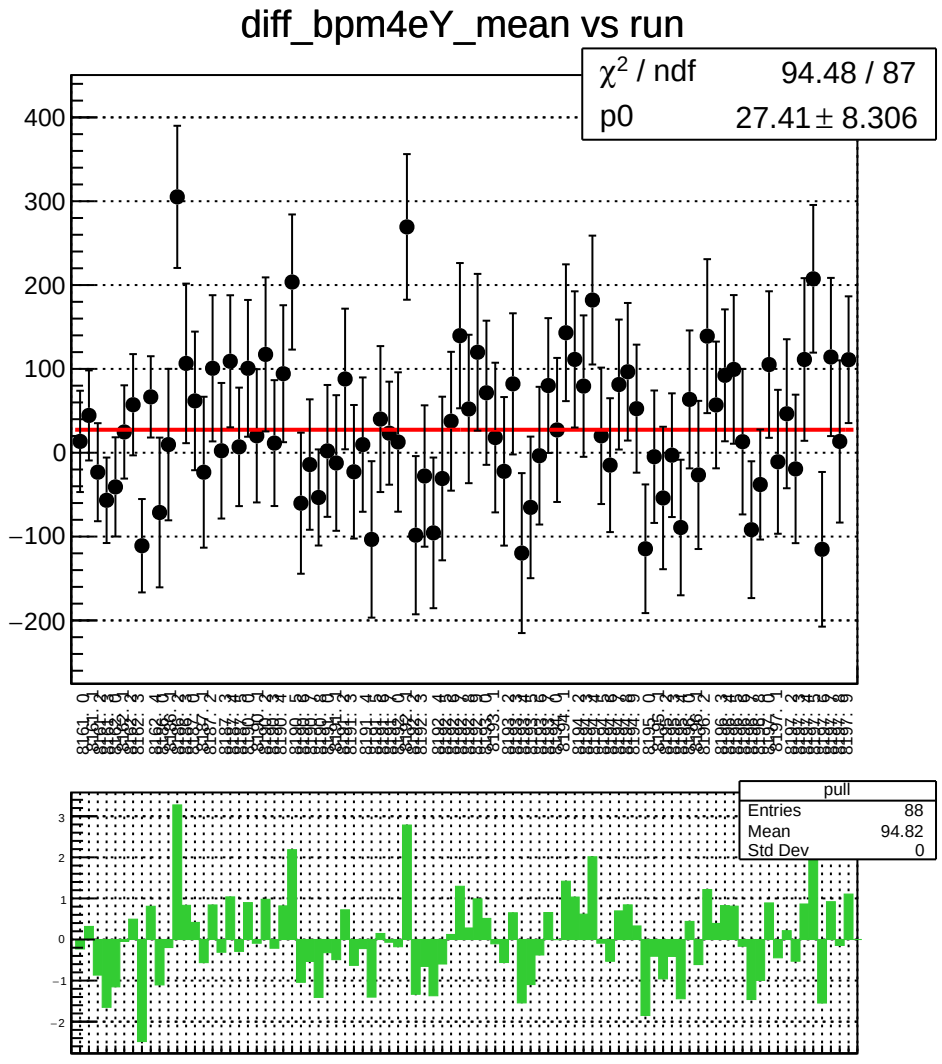

pull1D
Entries 88
Mean 0.0373
Std Dev 1.05

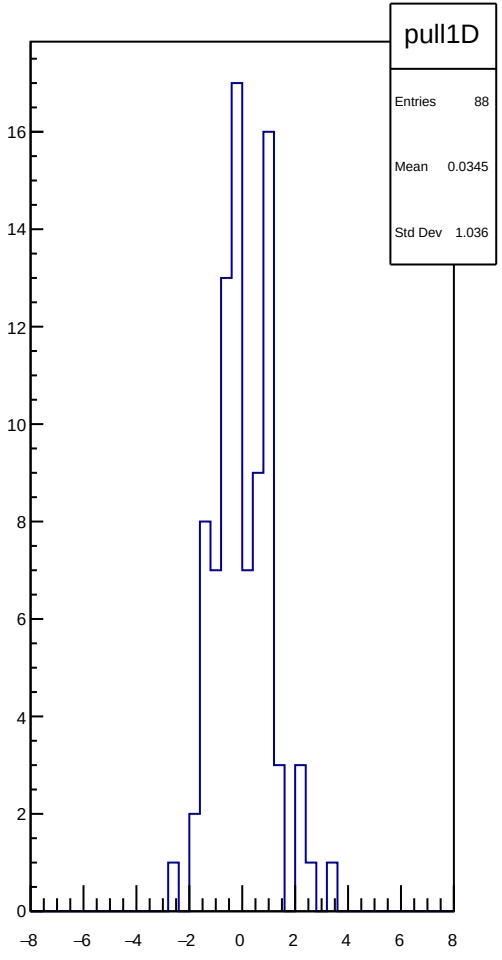

diff_bpm4aY_rms vs run
χ² / ndf 3.332e+04 / 87
p0 7931 ± 6.206
10000
9000
8000
7000
6000
5000

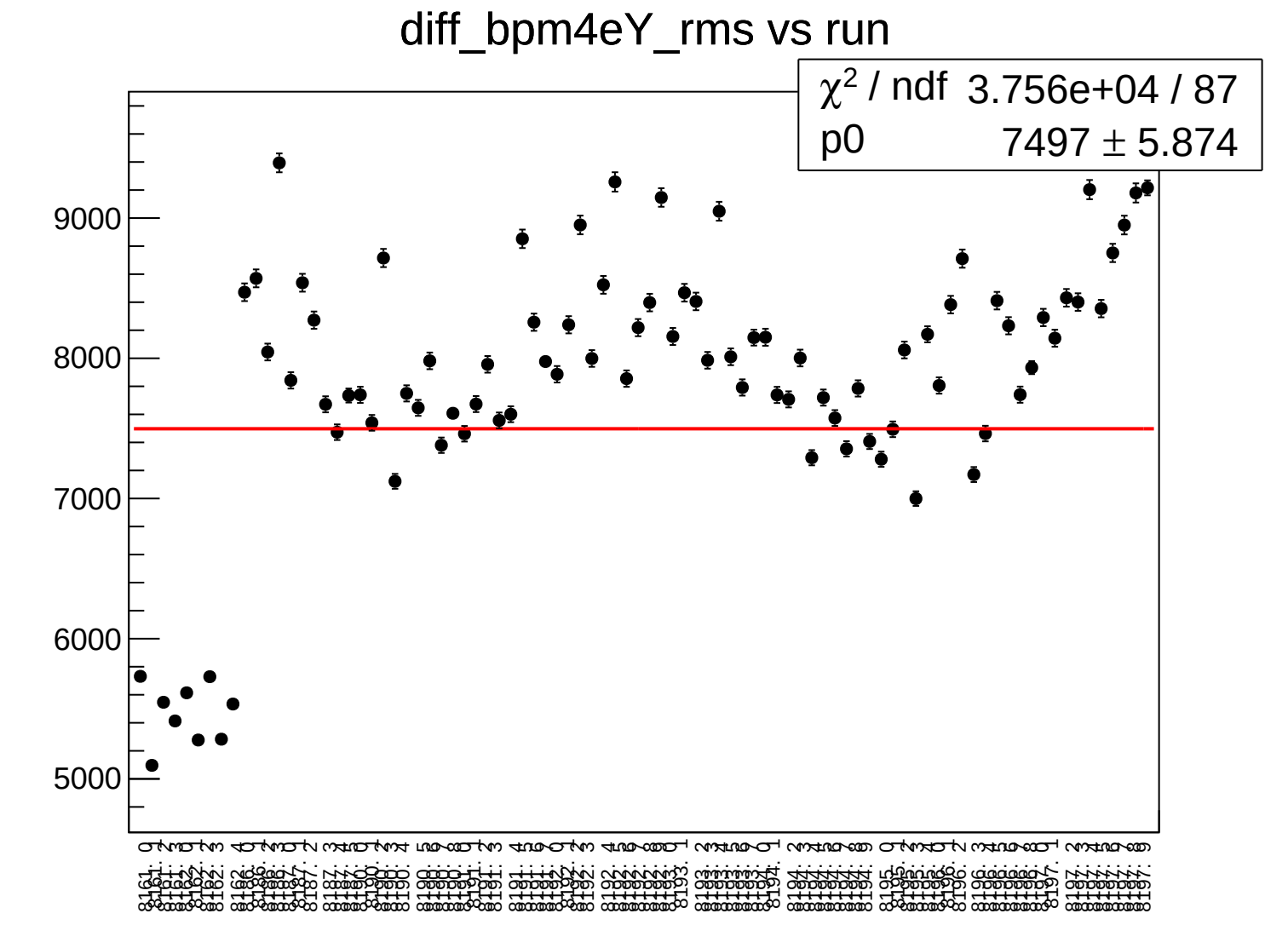

diff_bpm4eX_mean vs run
χ² / ndf 84.07 / 87
p0 −66.55 ± 22.6
pull
Entries 88
Mean 1422
Std Dev 0

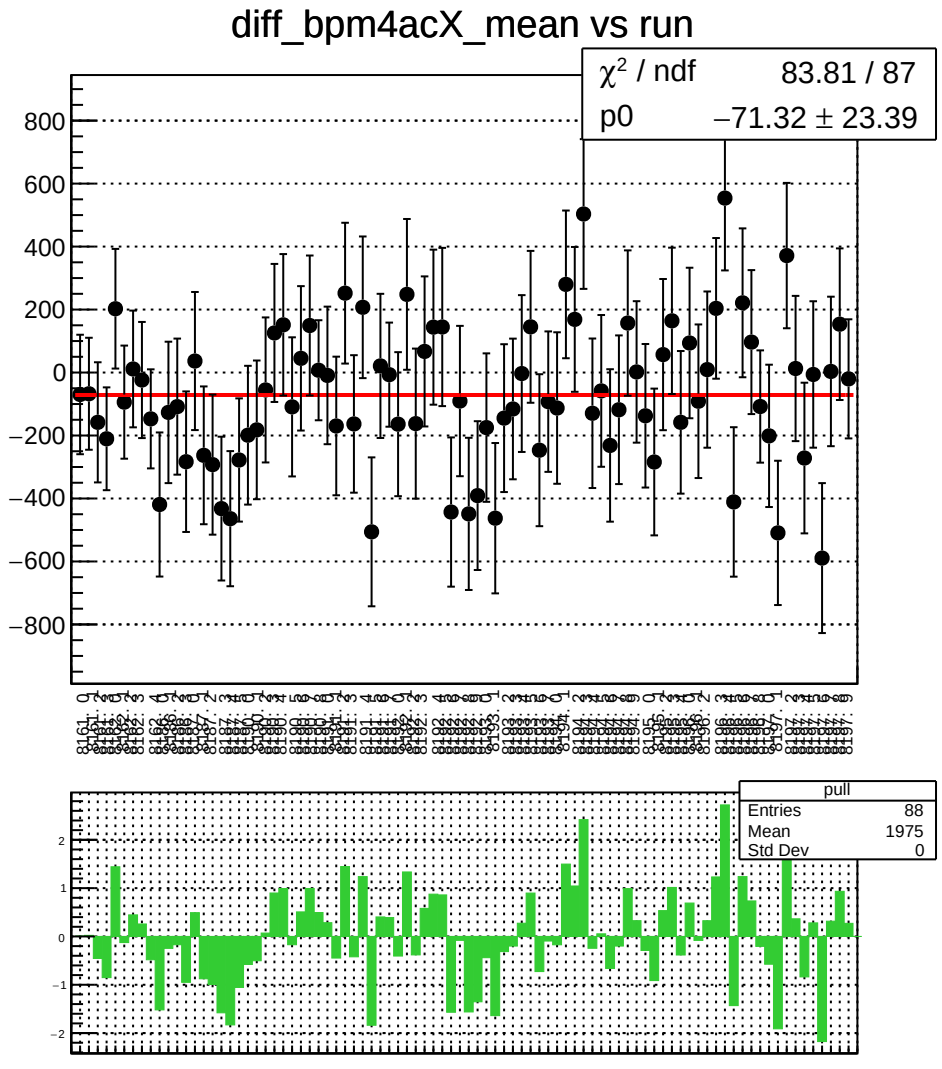

pull1D
Entries 88
Mean 0.002859
Std Dev 0.9774

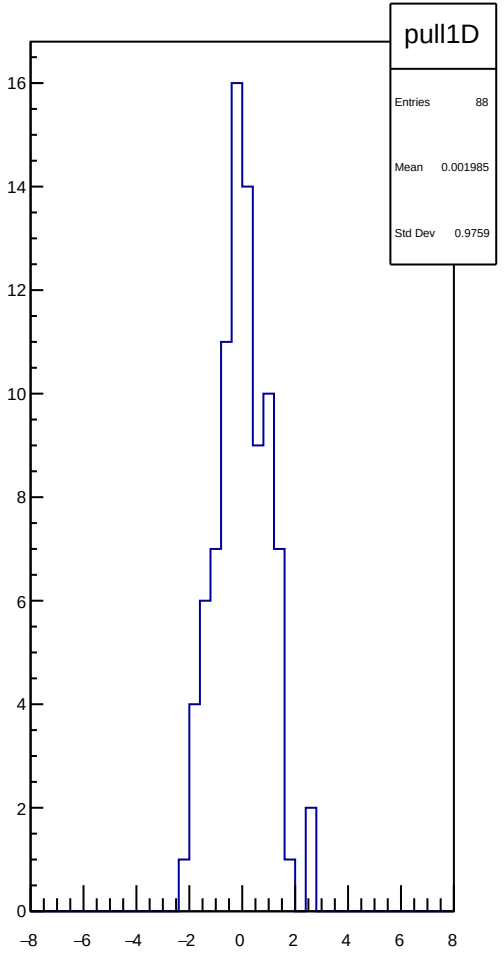

diff_bpm4eX_rms vs run
χ² / ndf 1.159e+04 / 87
p0 2.056e+04 ± 15.98
23000
22000
21000
20000
19000
18000
17000
16000

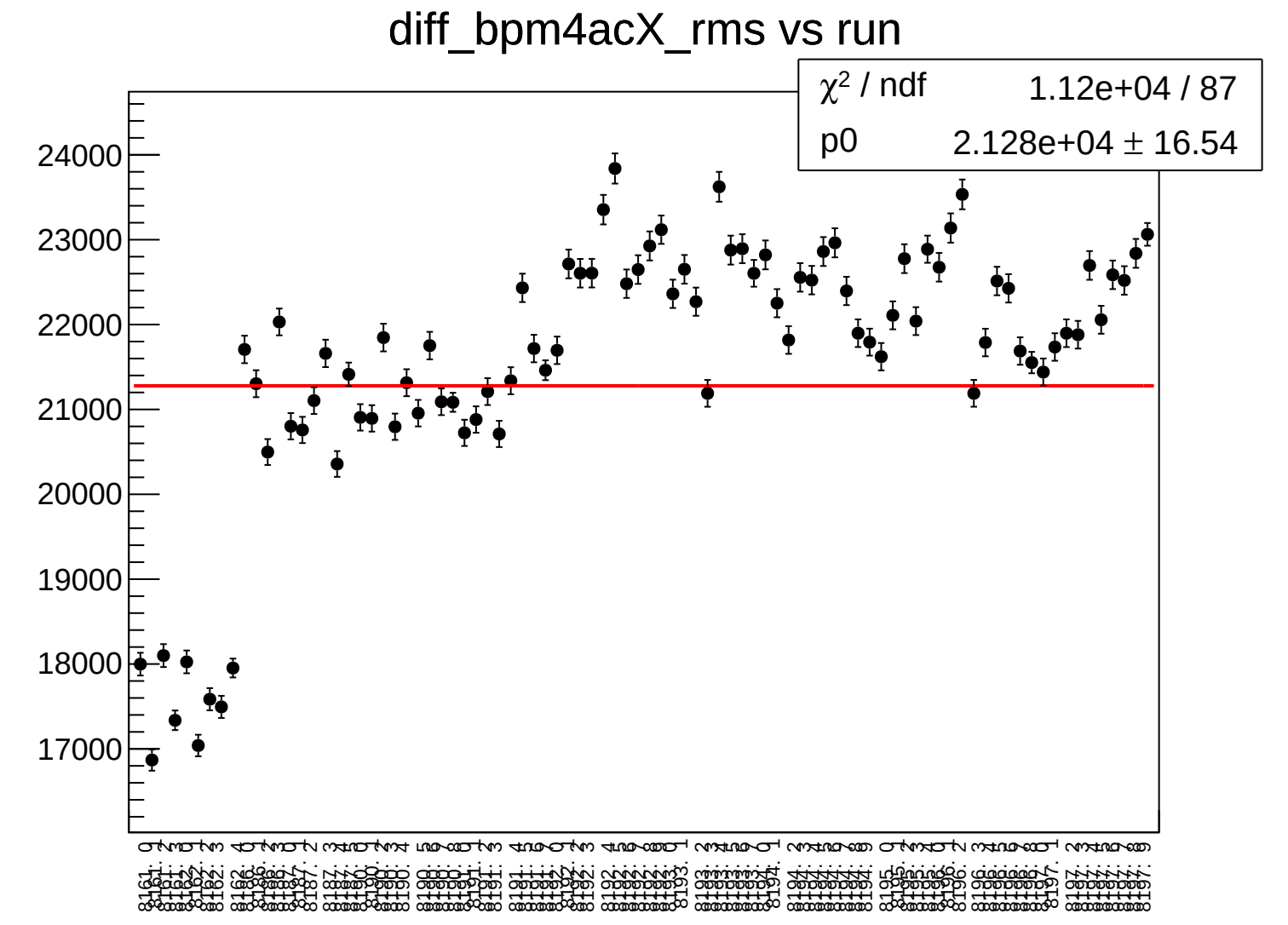

diff_bpm4eY_mean vs run
χ^2 / ndf 94.48 / 87
p0 27.41 ± 8.306
pull
Entries 88
Mean 94.82
Std Dev 0

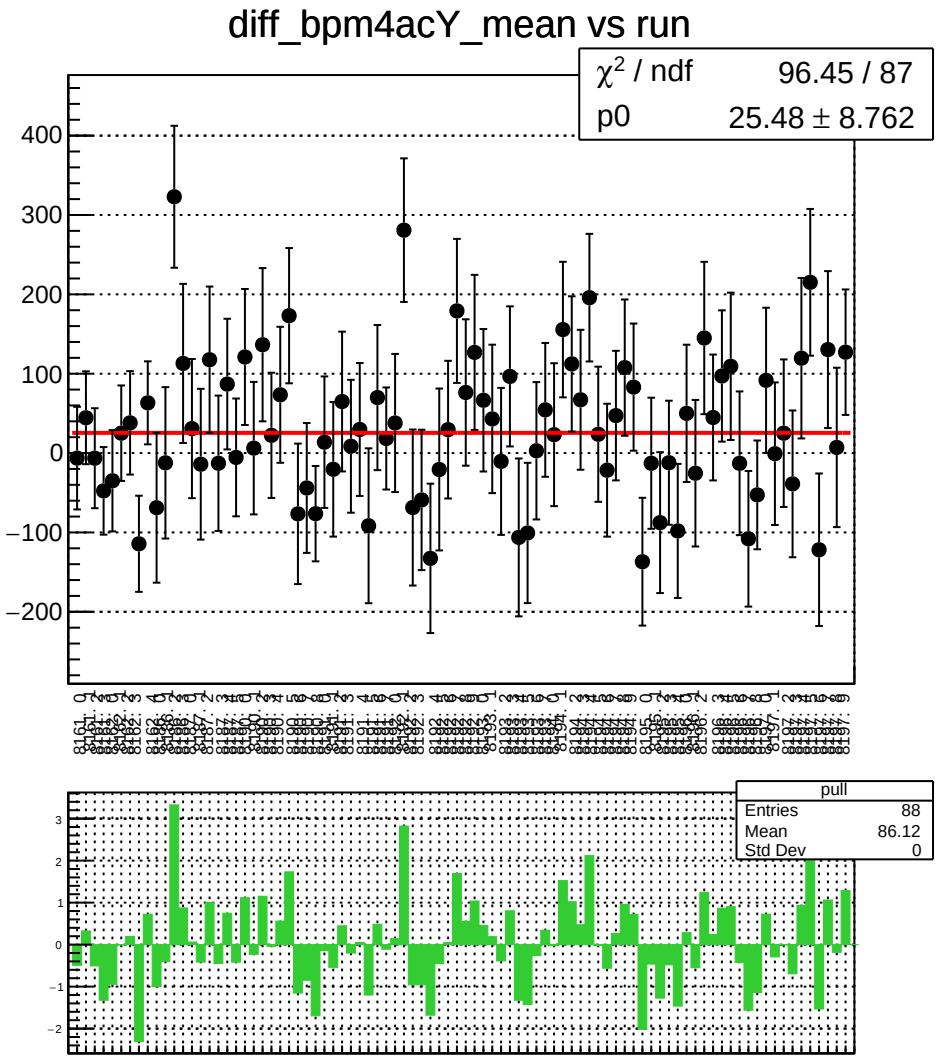

pull1D
Entries 88
Mean 0.0345
Std Dev 1.036

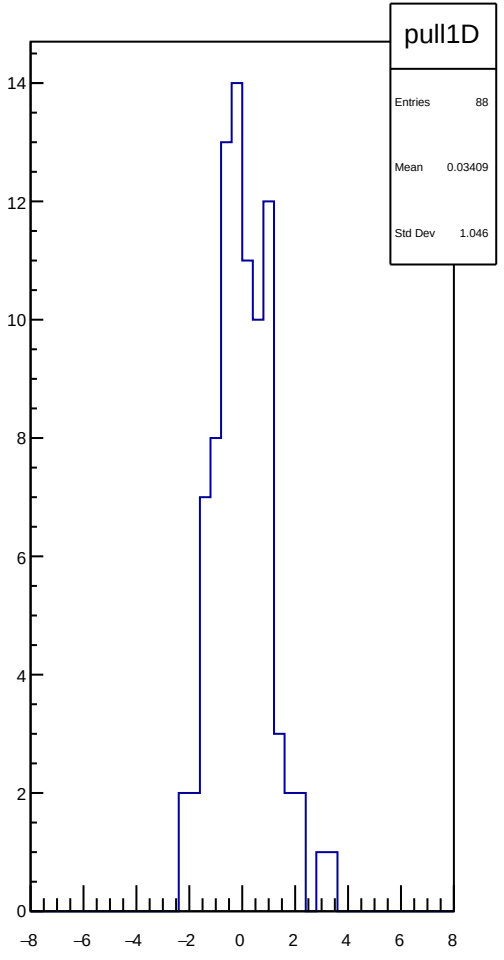

diff_bpm4eY_rms vs run
χ^2 / ndf 3.756e+04 / 87
p0 7497 ± 5.874
9000
8000
7000
6000
5000

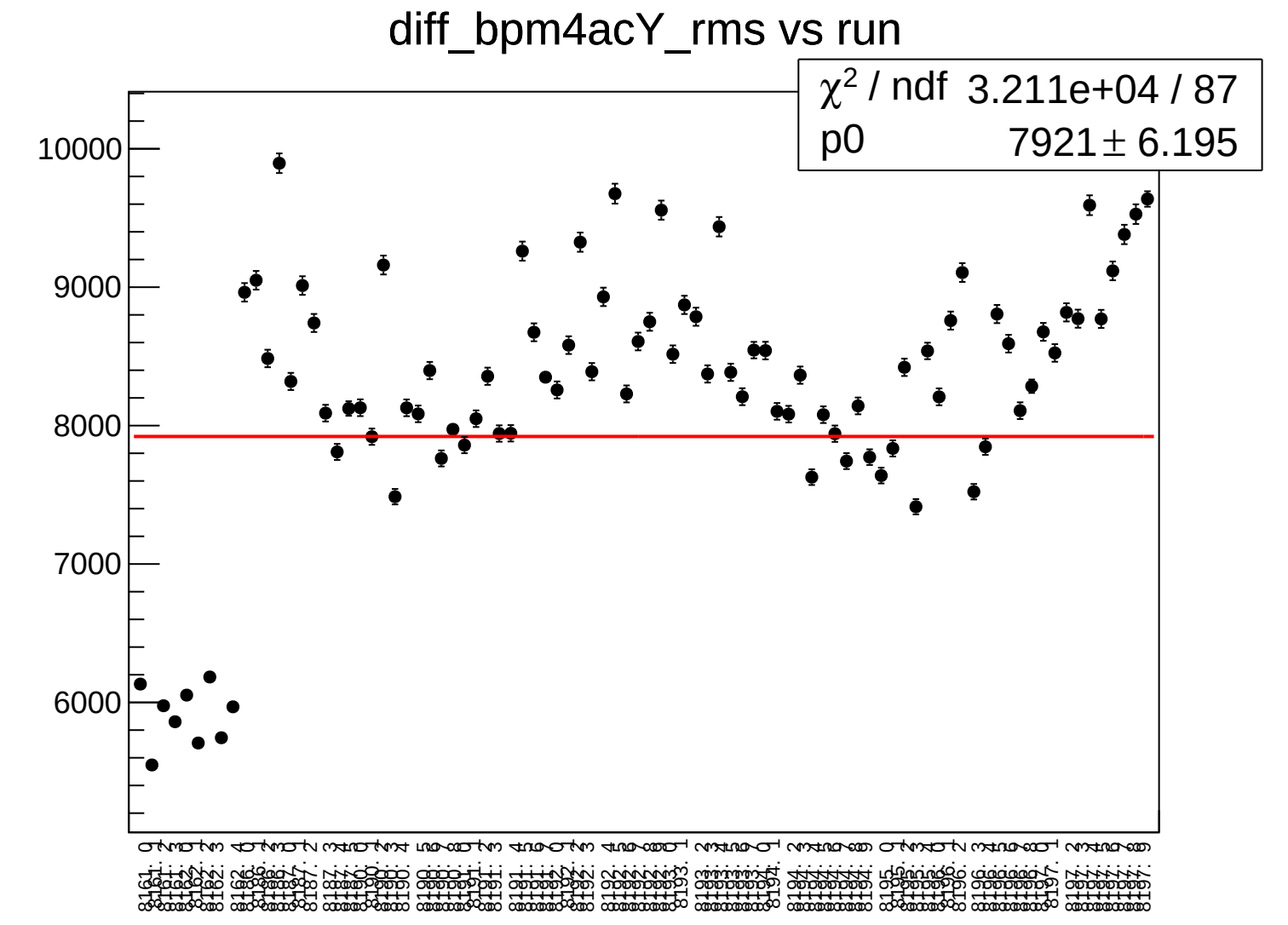

diff_bpm4acX_mean vs run
χ² / ndf 83.81 / 87
p0 −71.32 ± 23.39
pull
Entries 88
Mean 1975
Std Dev 0

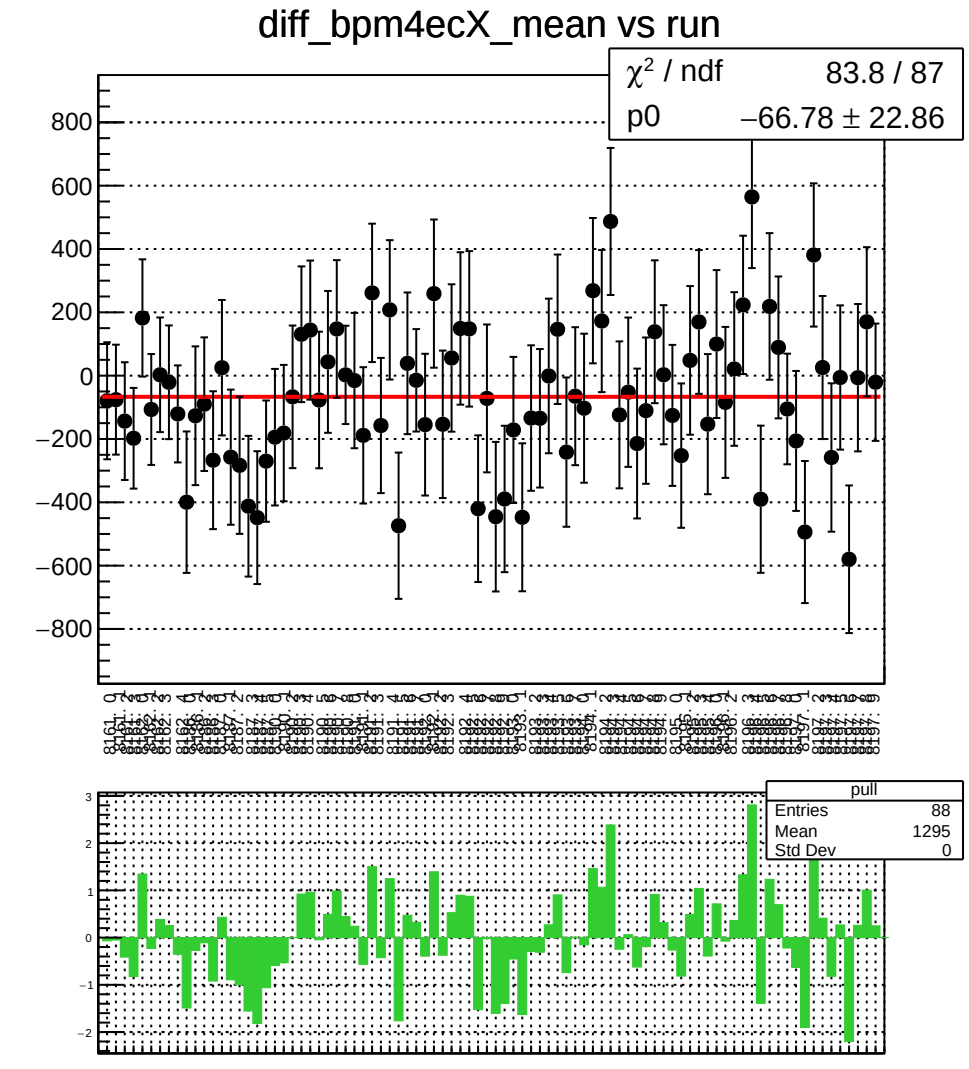

pull1D
Entries 88
Mean 0.001985
Std Dev 0.9759

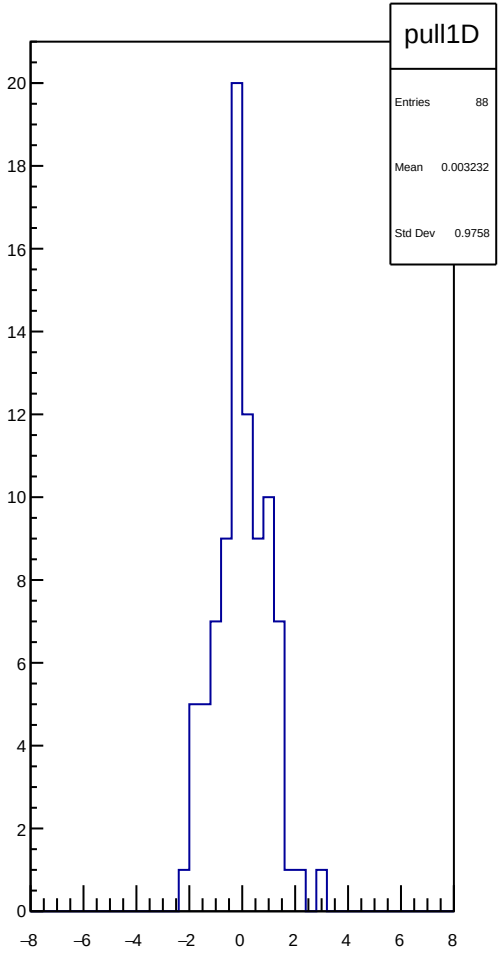

diff_bpm4acX_rms vs run
χ² / ndf 1.12e+04 / 87
p0 2.128e+04 ± 16.54
24000
23000
22000
21000
20000
19000
18000
17000

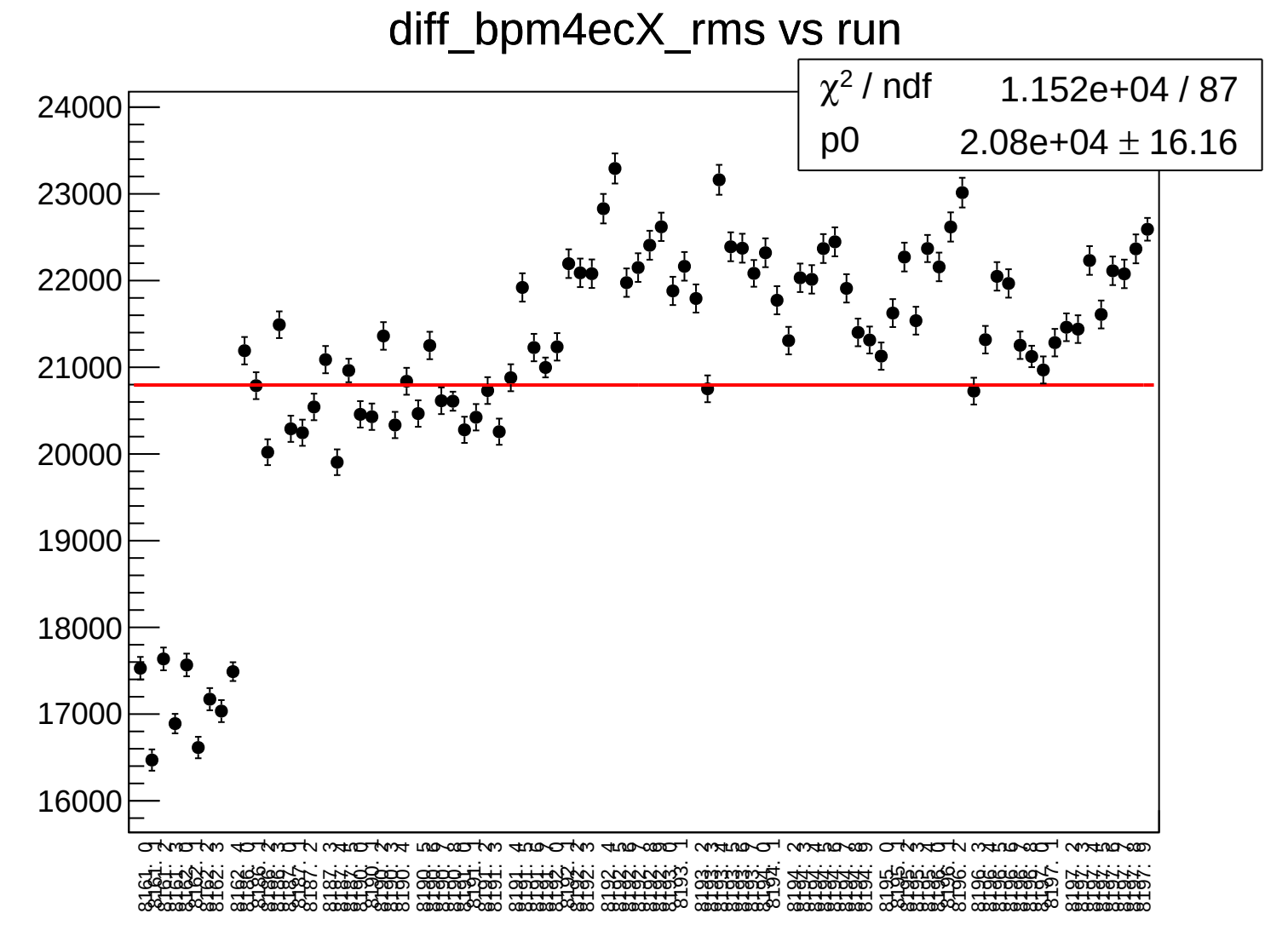

diff_bpm4acY_mean vs run
χ^2 / ndf 96.45 / 87
p0 25.48 ± 8.762
pull
Entries 88
Mean 86.12
Std Dev 0

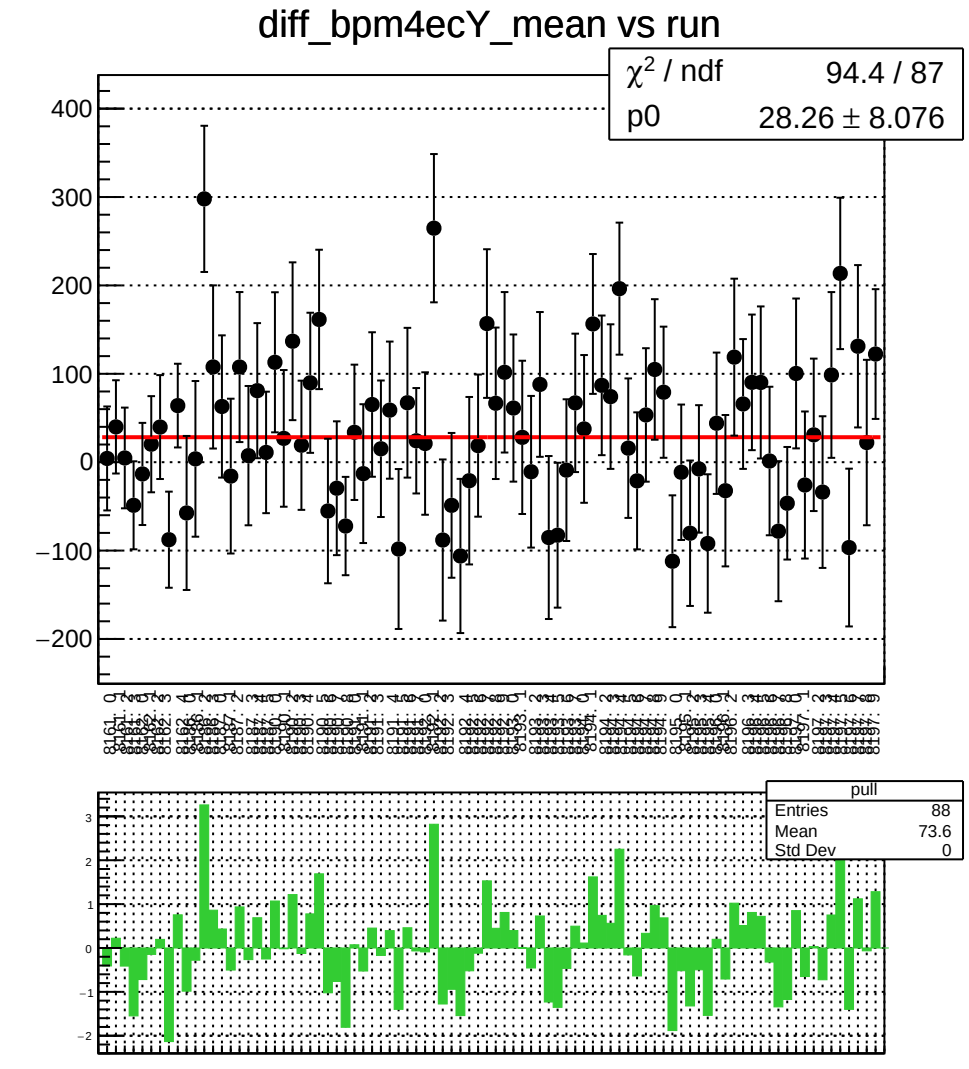

pull1D
Entries 88
Mean 0.03409
Std Dev 1.046

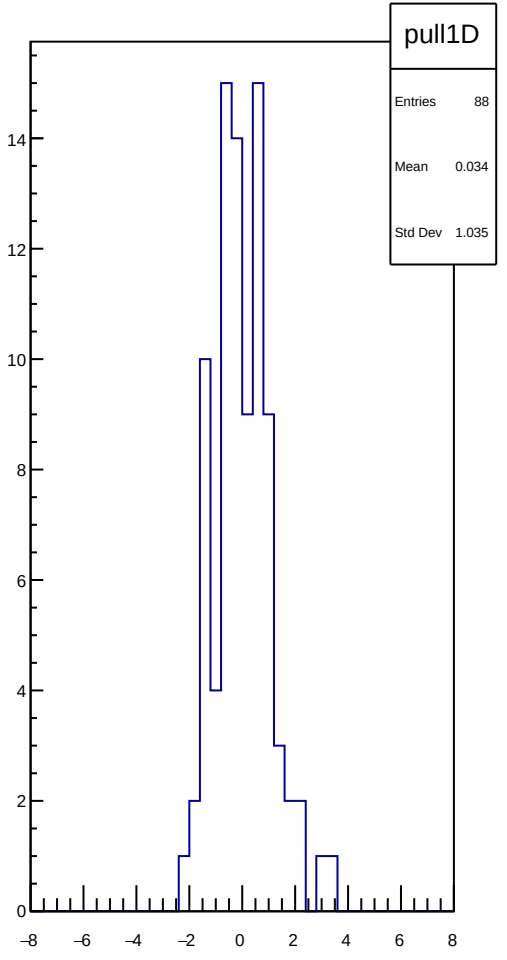

diff_bpm4acY_rms vs run
χ² / ndf 3.211e+04 / 87
p0 7921 ± 6.195
10000
9000
8000
7000
6000

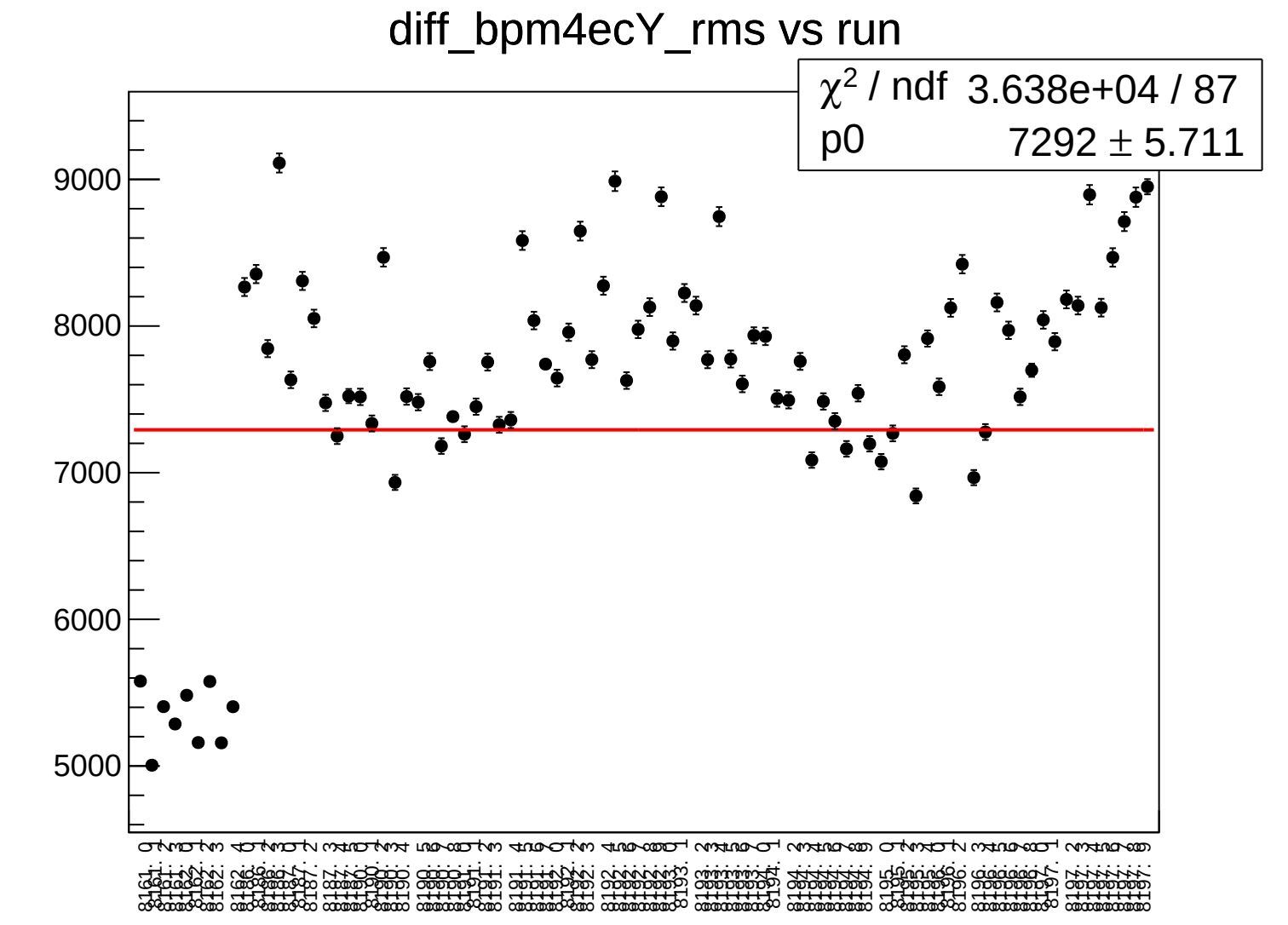

diff_bpm4ecX_mean vs run
χ^2 / ndf 83.8 / 87
p0 −66.78 ± 22.86
pull
Entries 88
Mean 1295
Std Dev 0

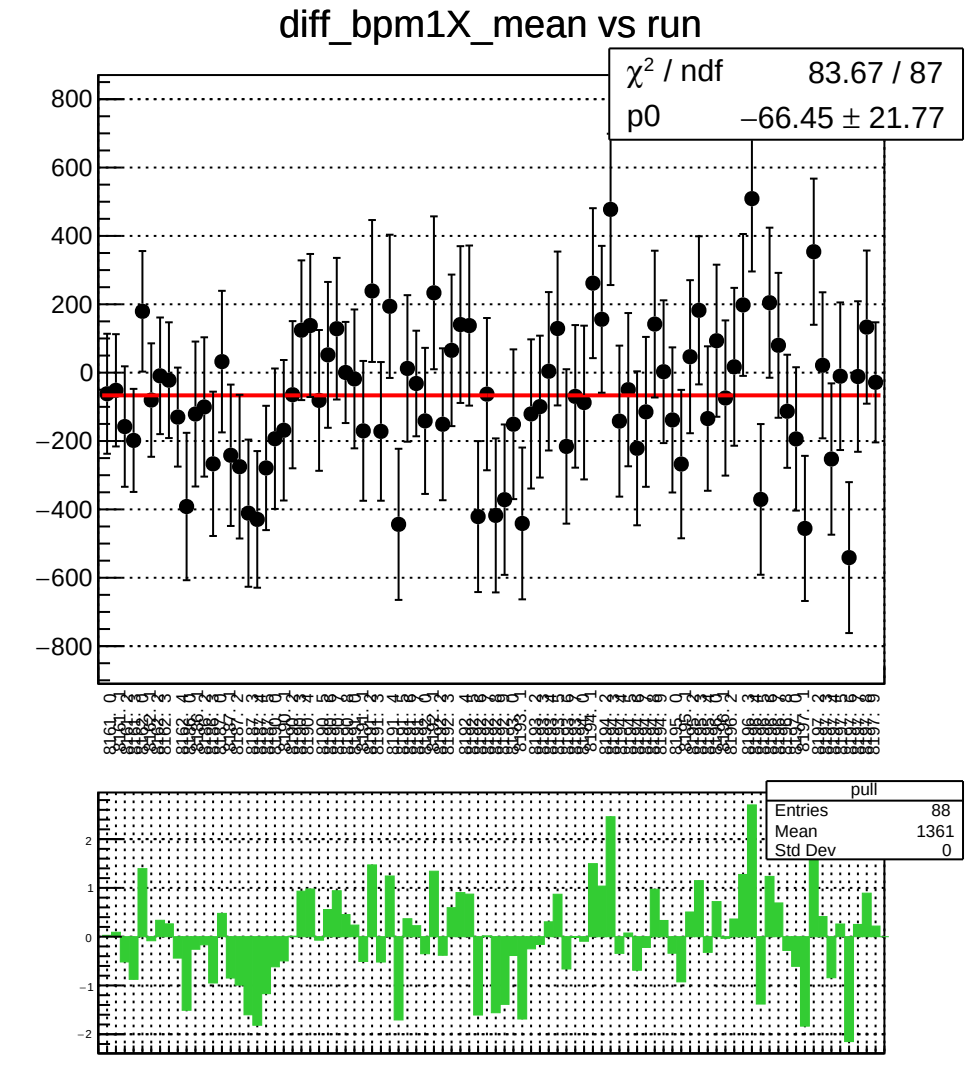

pull1D
Entries 88
Mean 0.003232
Std Dev 0.9758

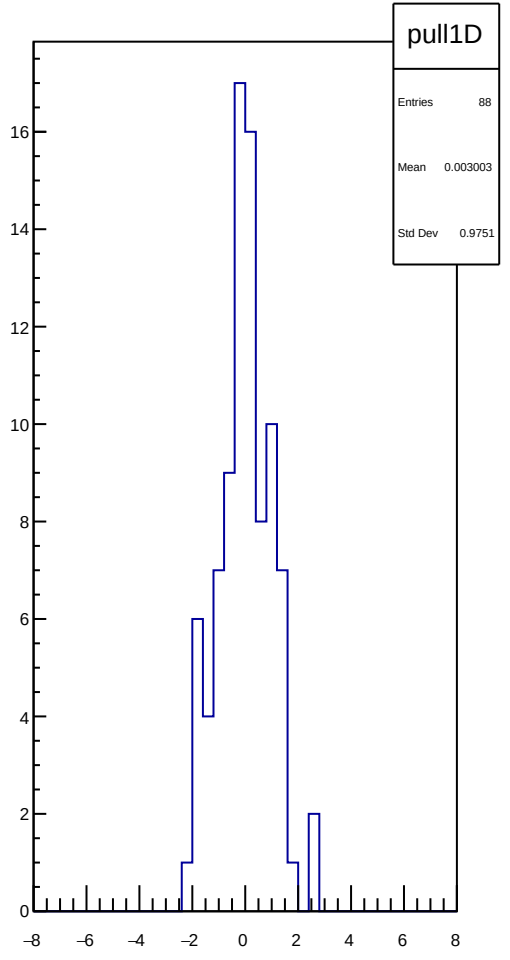

diff_bpm4ecX_rms vs run
χ² / ndf 1.152e+04 / 87
p0 2.08e+04 ± 16.16
24000
23000
22000
21000
20000
19000
18000
17000
16000

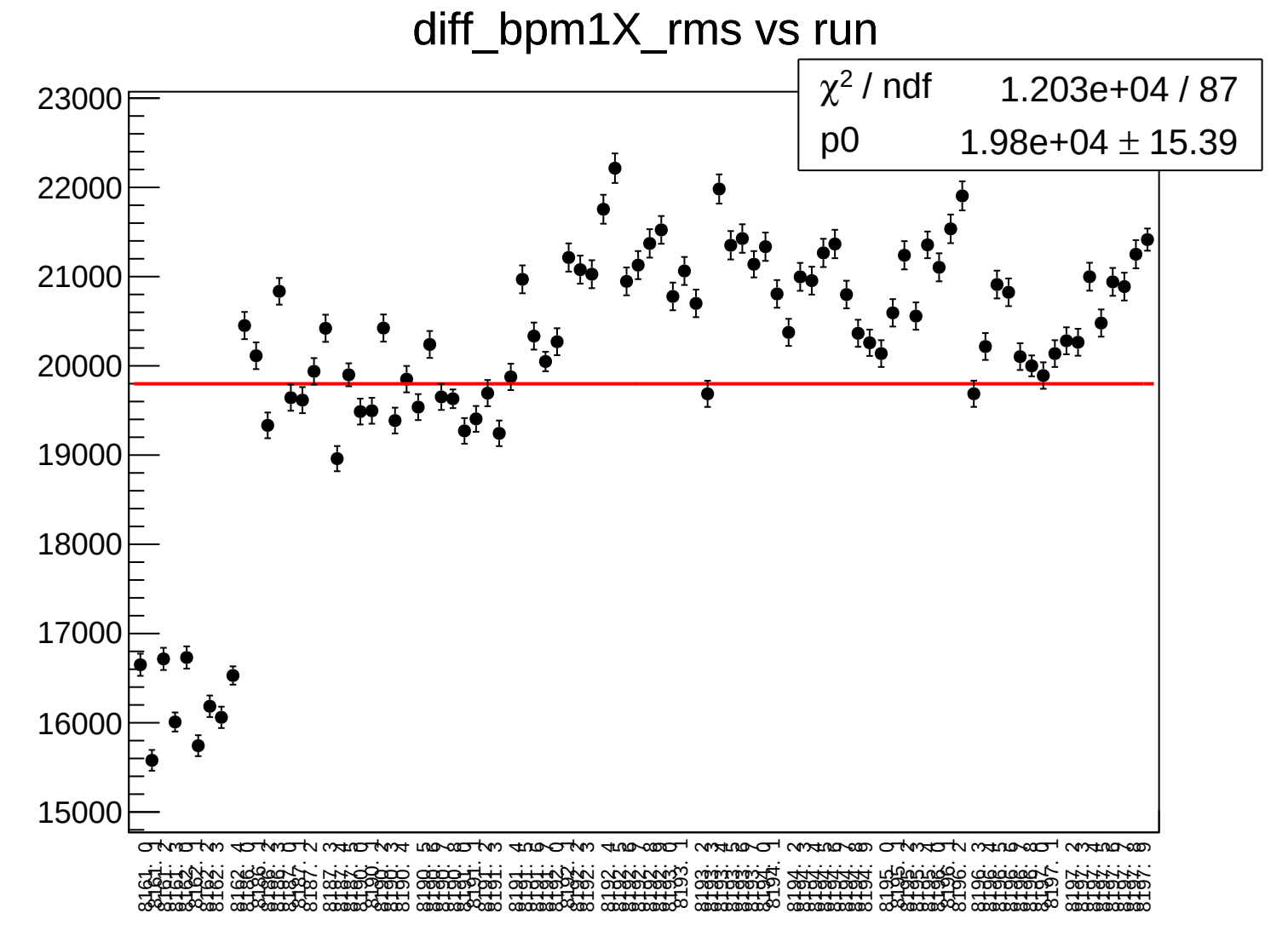

diff_bpm4ecY_mean vs run
χ^2 / ndf 94.4 / 87
p0 28.26 ± 8.076
pull
Entries 88
Mean 73.6
Std Dev 0

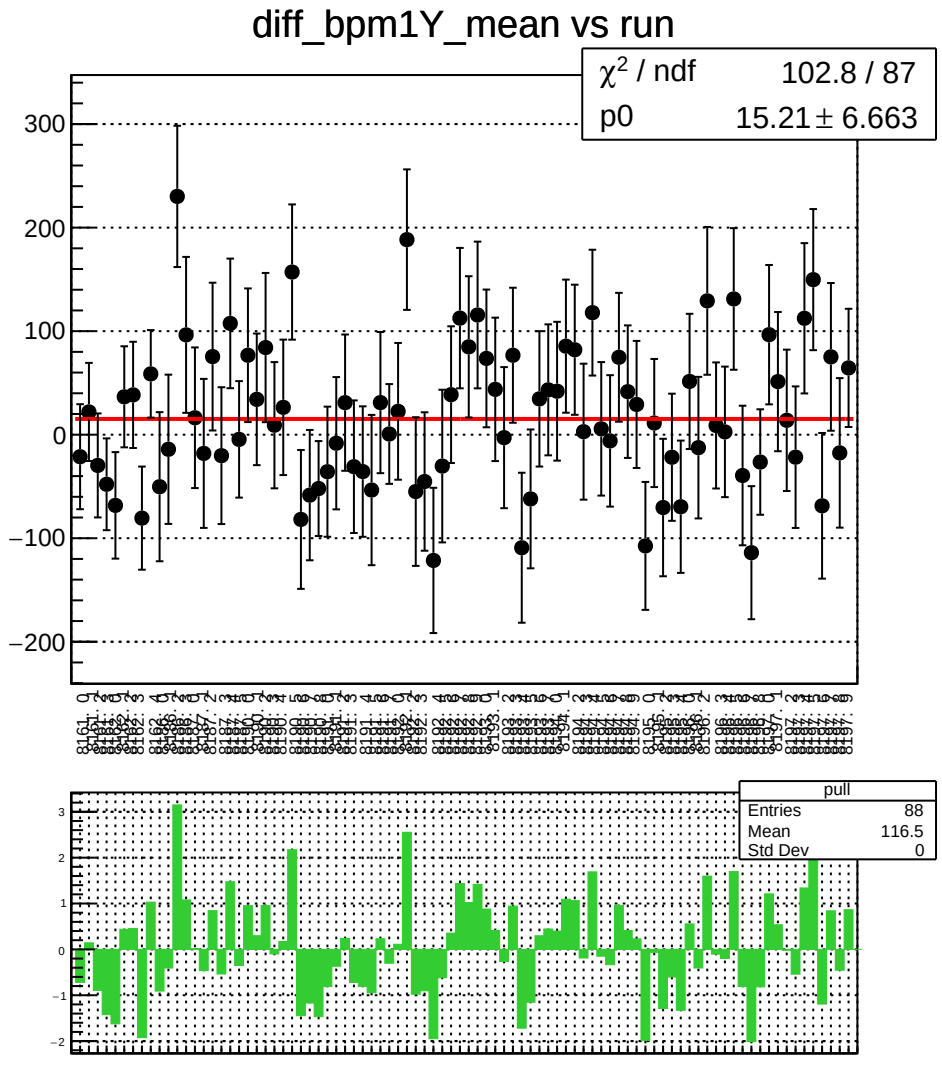

pull1D
Entries 88
Mean 0.034
Std Dev 1.035

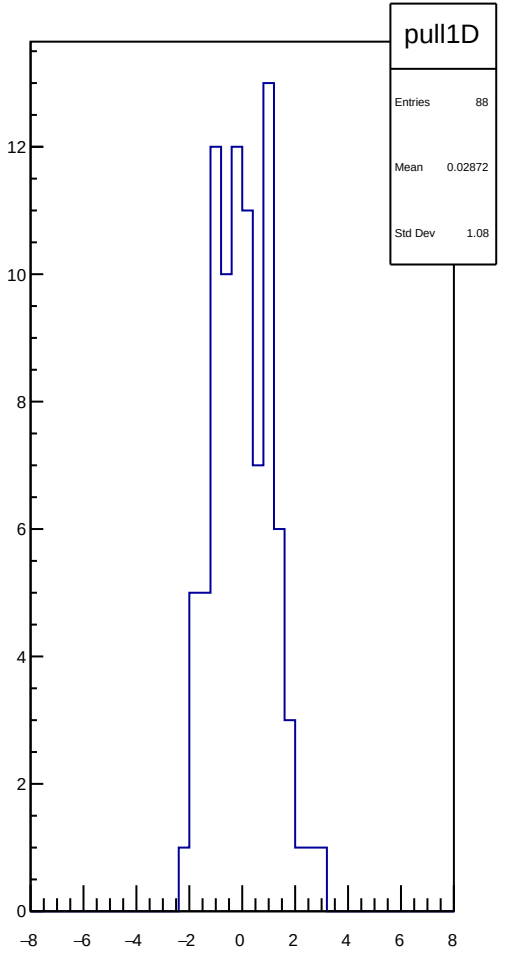

diff_bpm4ecY_rms vs run
χ^2 / ndf 3.638e+04 / 87
p0 7292 ± 5.711
9000
8000
7000
6000
5000

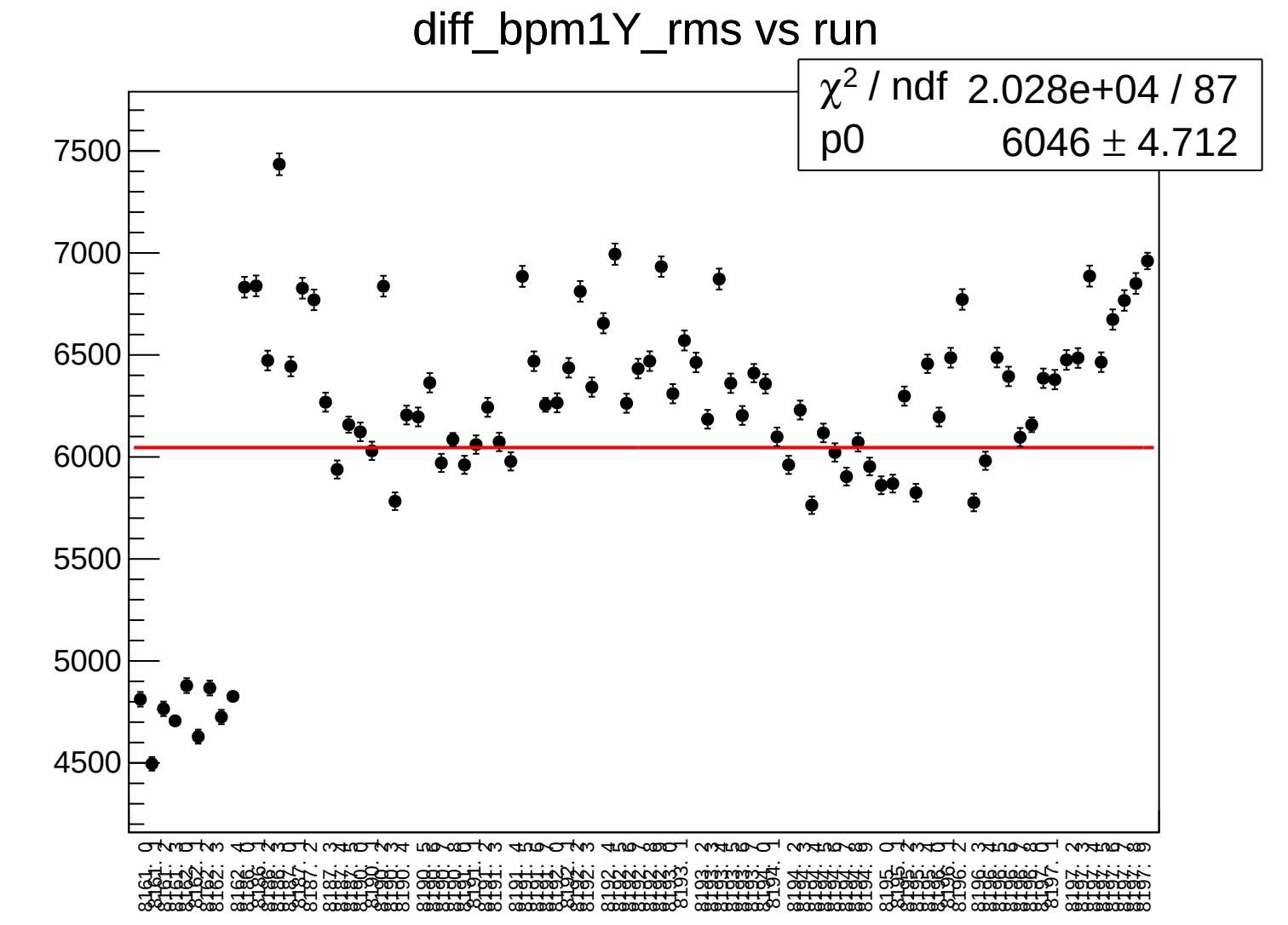

diff_bpm1X_mean vs run
χ² / ndf 83.67 / 87
p0 −66.45 ± 21.77
pull
Entries 88
Mean 1361
Std Dev 0

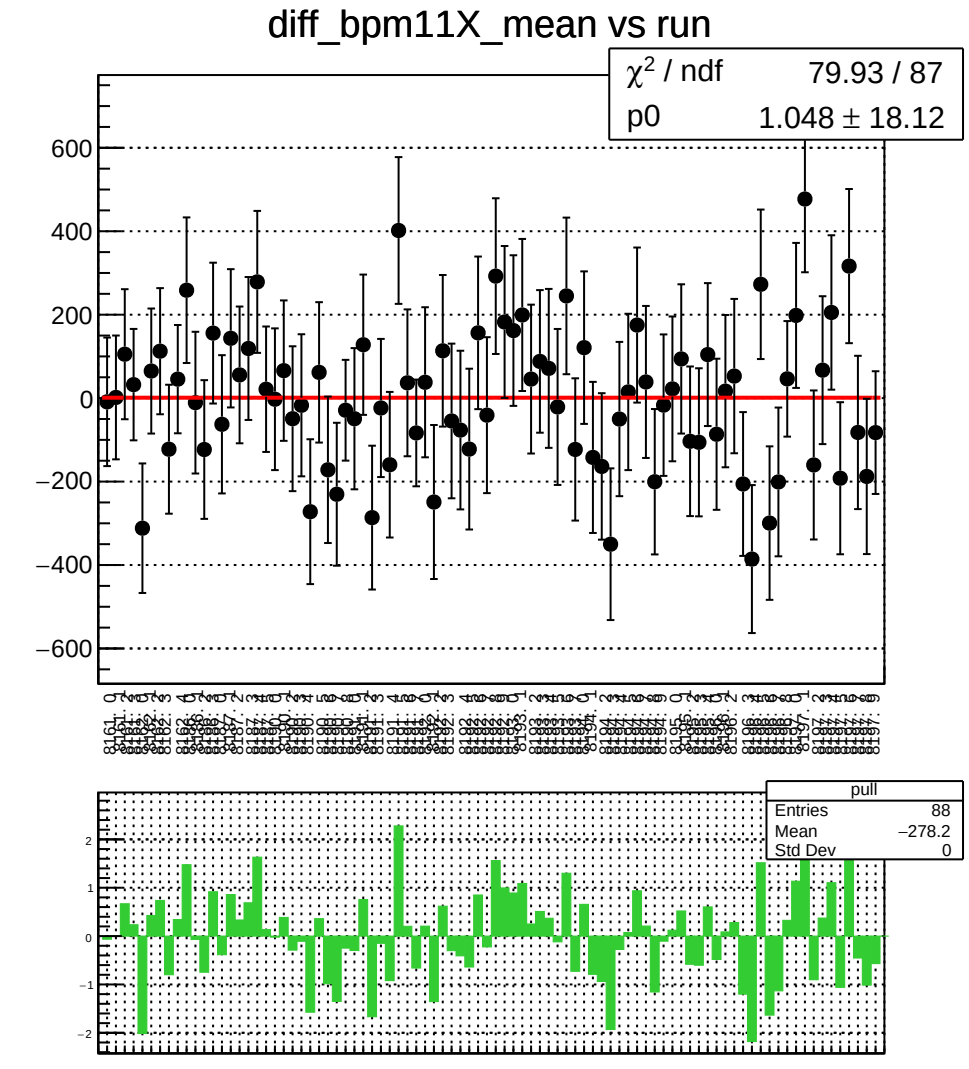

pull1D
Entries 88
Mean 0.003003
Std Dev 0.9751

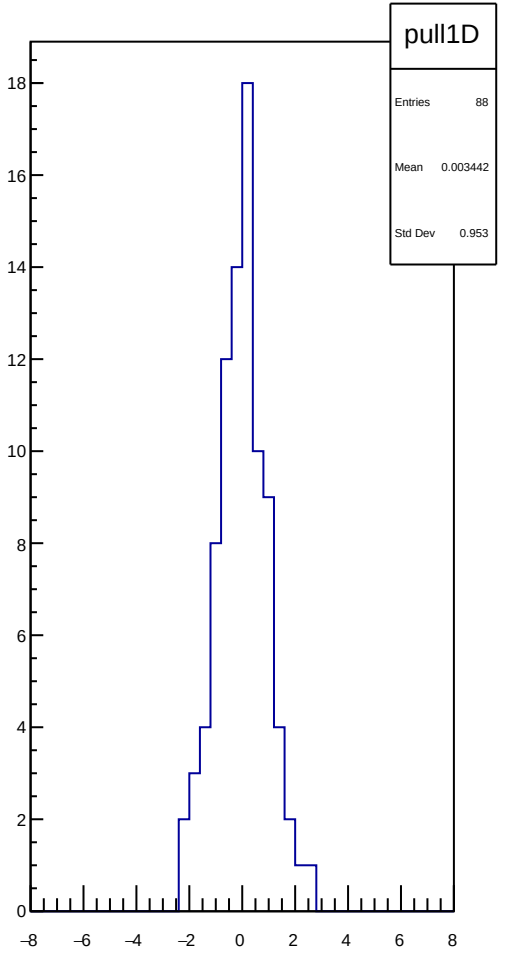

diff_bpm1X_rms vs run
χ² / ndf 1.203e+04 / 87
p0 1.98e+04 ± 15.39
23000
22000
21000
20000
19000
18000
17000
16000
15000

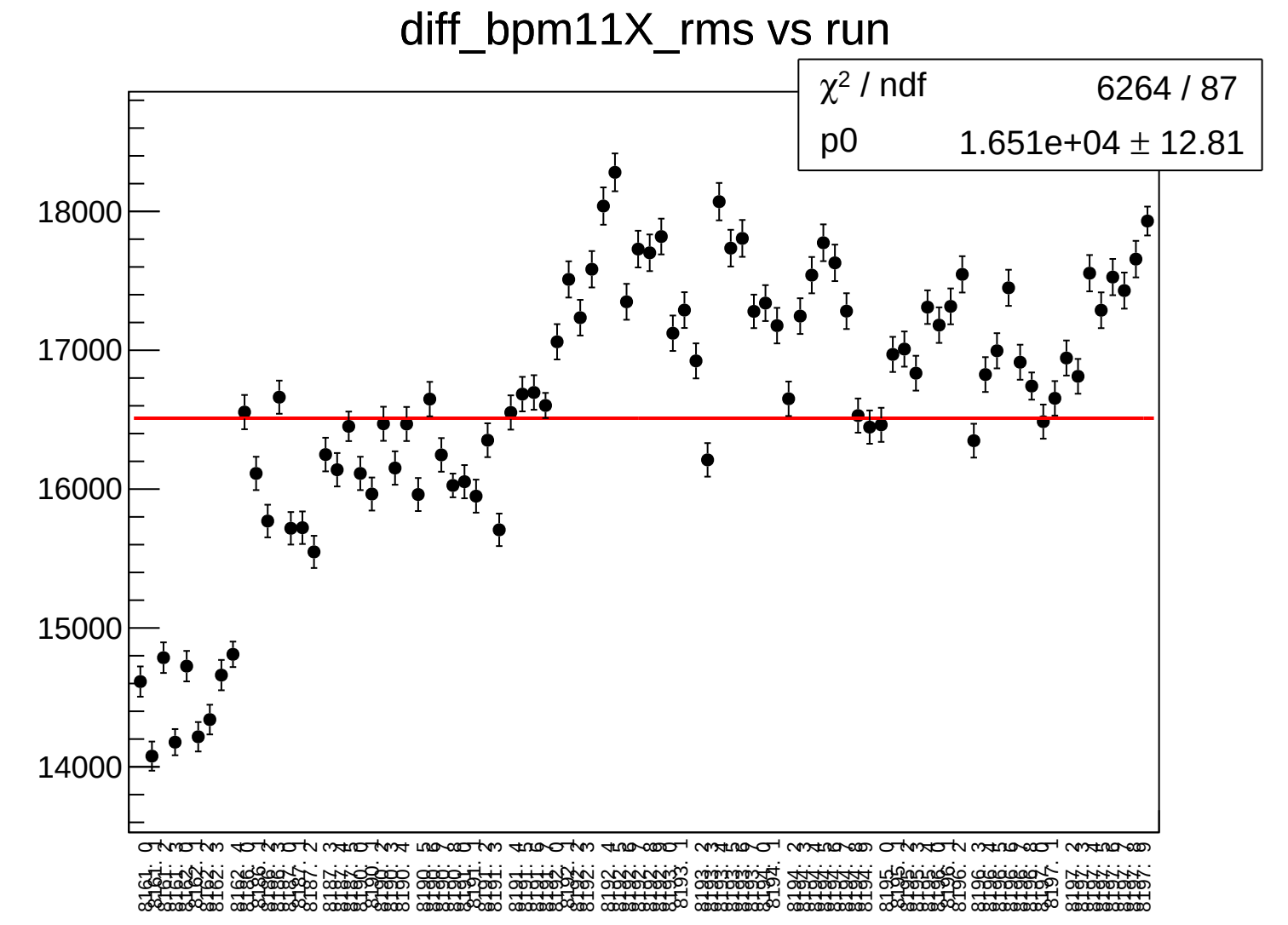

diff_bpm1Y_mean vs run
χ² / ndf 102.8 / 87
p0 15.21 ± 6.663
300
200
100
0
−100
−200
pull
Entries 88
Mean 116.5
Std Dev 0
3
2
1
0
−1
−2

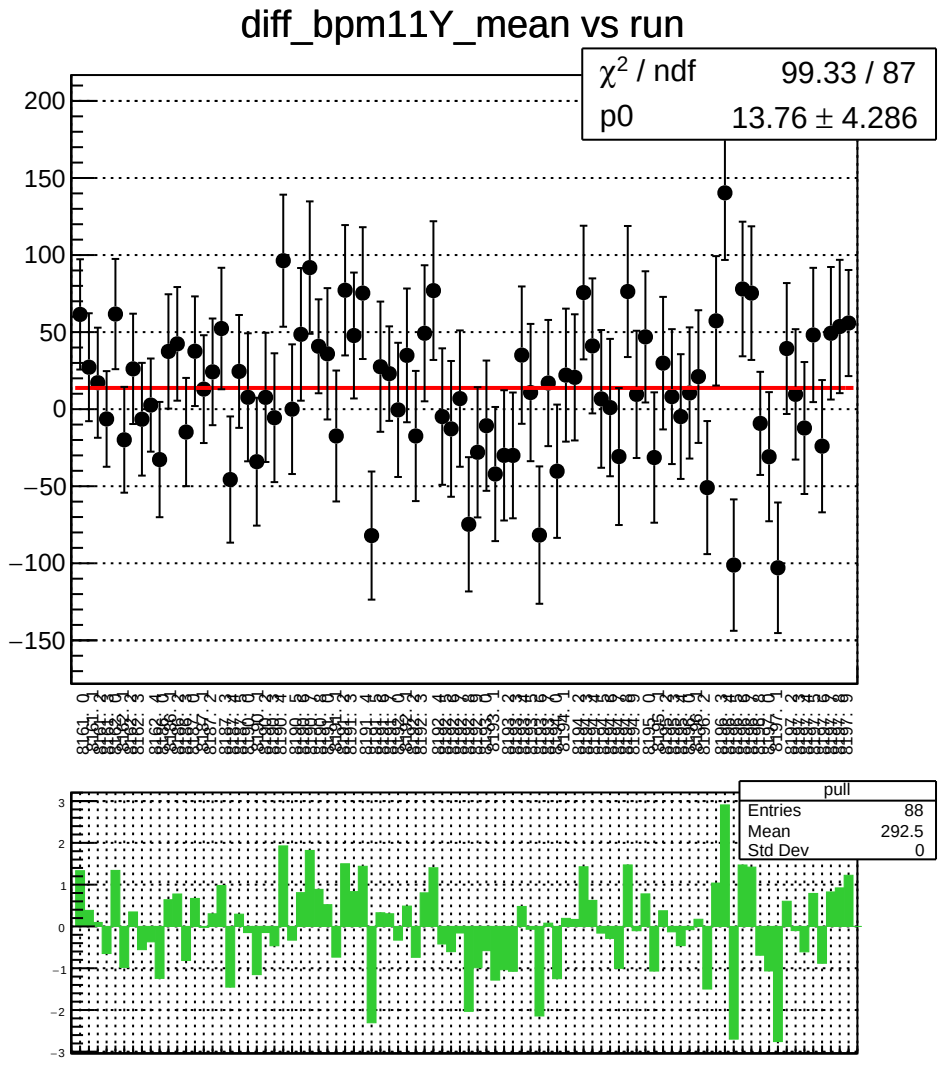

pull1D
Entries 88
Mean 0.02872
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

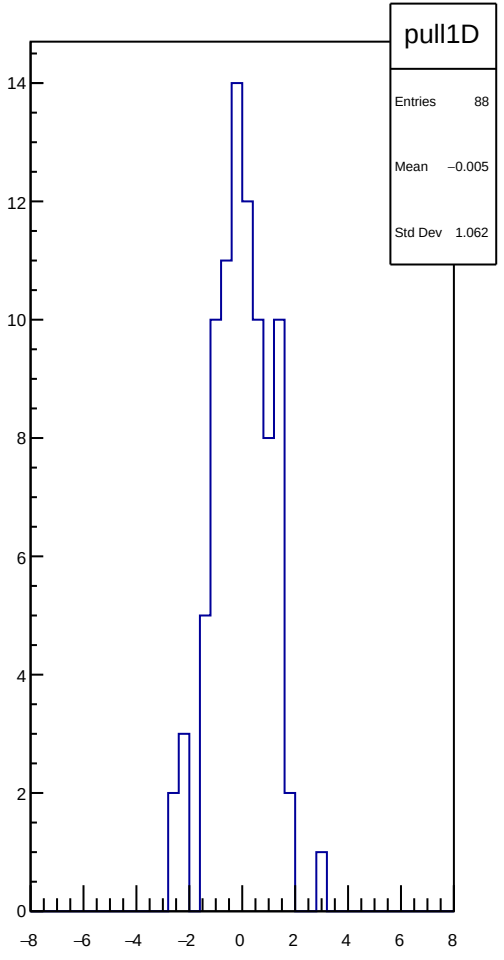

diff_bpm1Y_rms vs run
χ² / ndf 2.028e+04 / 87
p0 6046 ± 4.712
7500
7000
6500
6000
5500
5000
4500

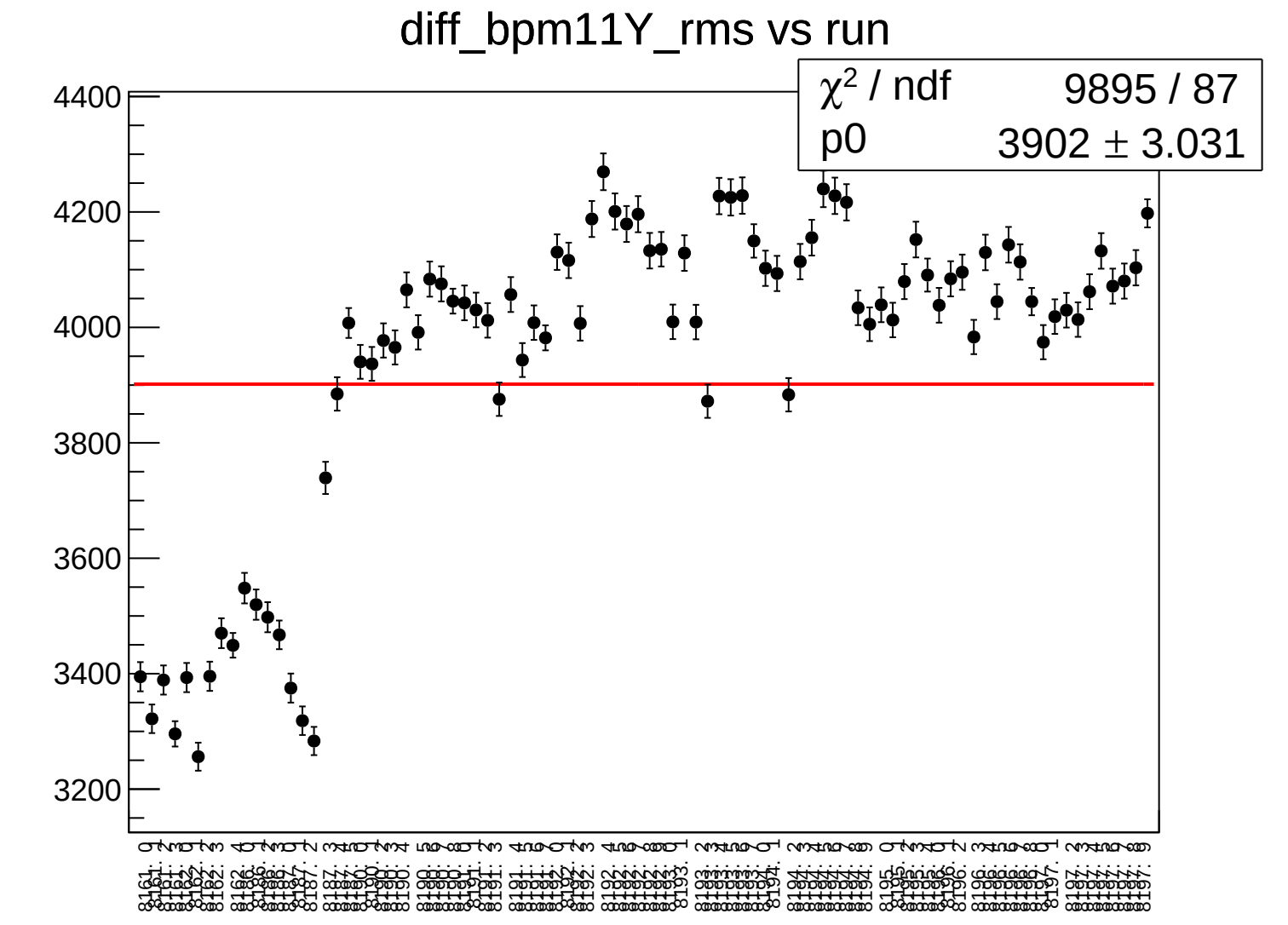

diff_bpm11X_mean vs run
χ² / ndf 79.93 / 87
p0 1.048 ± 18.12
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −278.2
Std Dev 0
2
1
0
−1
−2

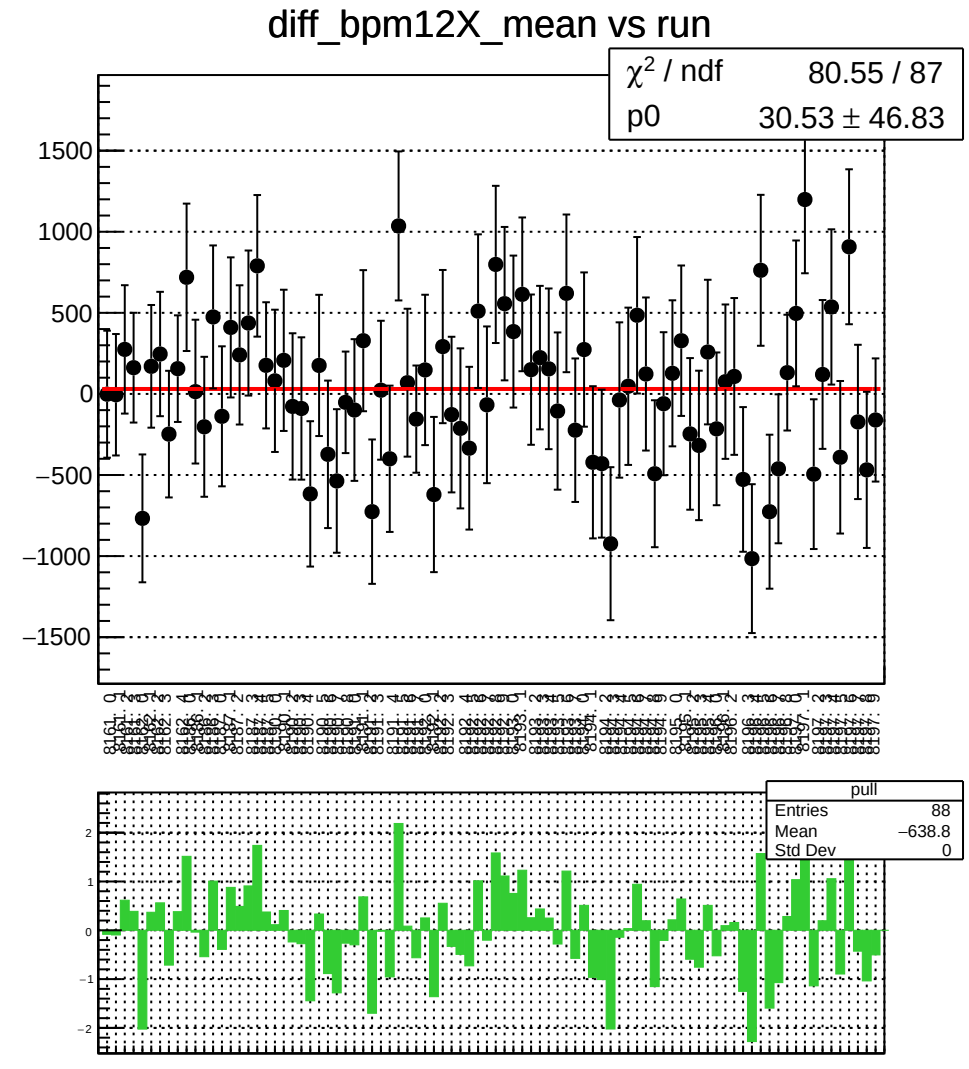

pull1D
Entries 88
Mean 0.003442
Std Dev 0.953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

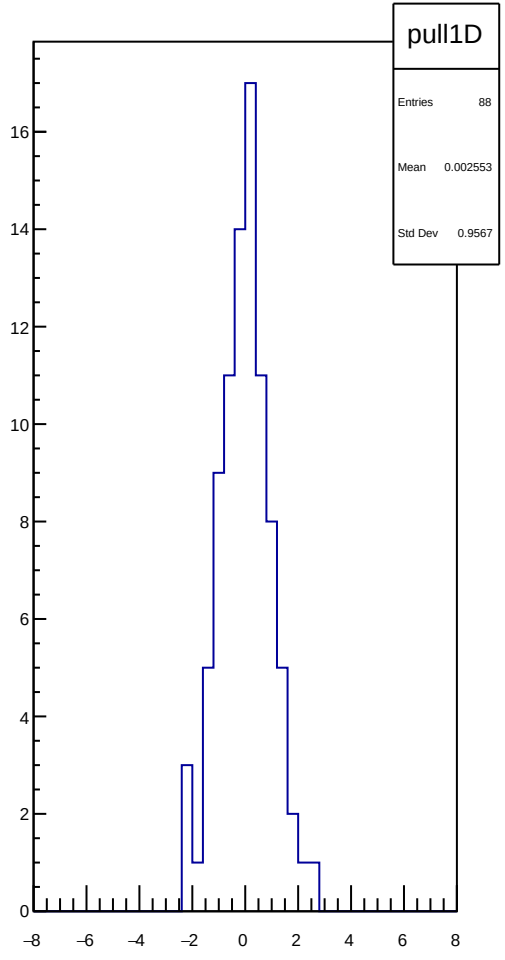

diff_bpm11X_rms vs run
χ² / ndf 6264 / 87
p0 1.651e+04 ± 12.81
18000
17000
16000
15000
14000

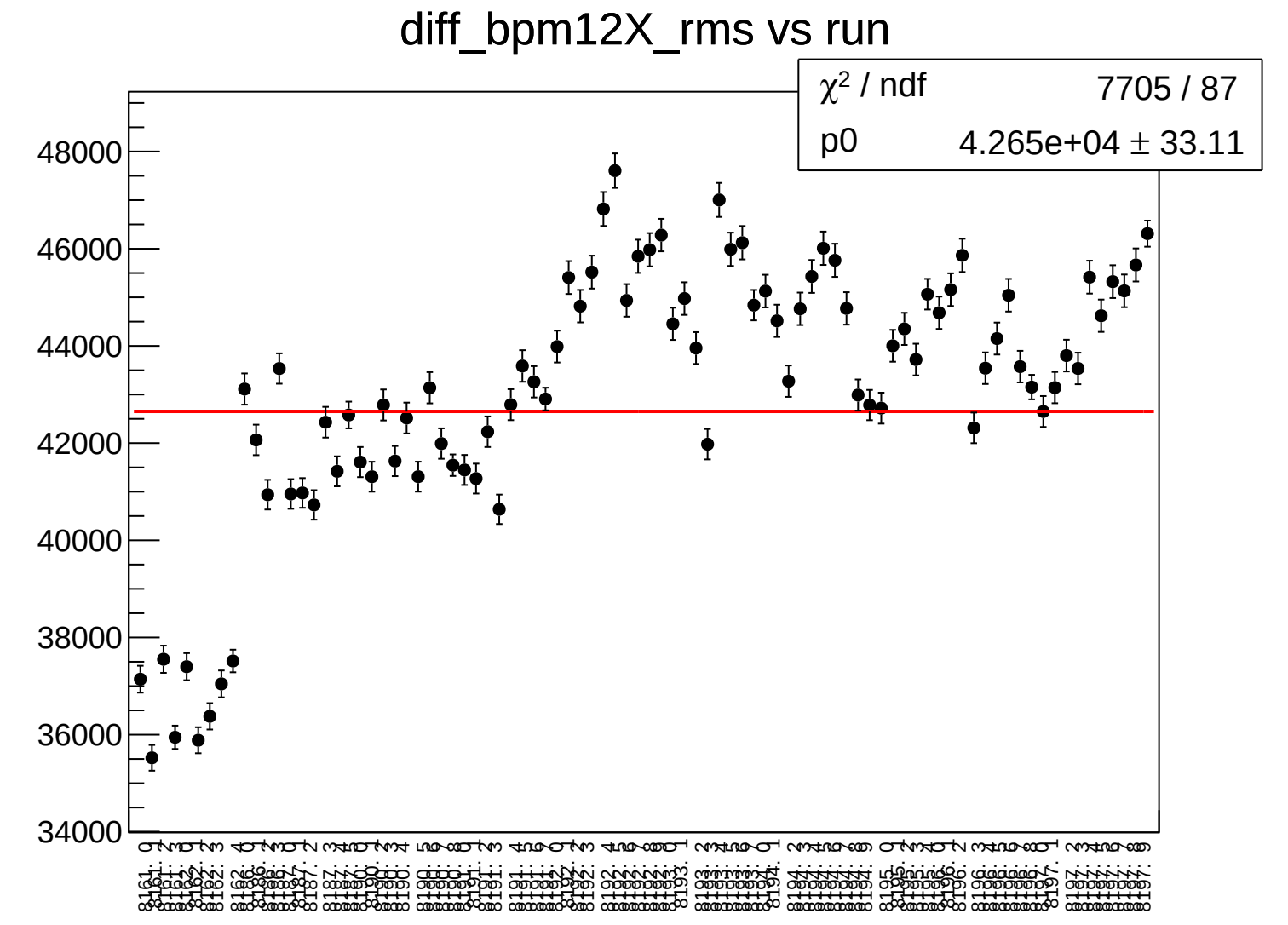

diff_bpm11Y_mean vs run
χ² / ndf 99.33 / 87
p0 13.76 ± 4.286
pull
Entries 88
Mean 292.5
Std Dev 0

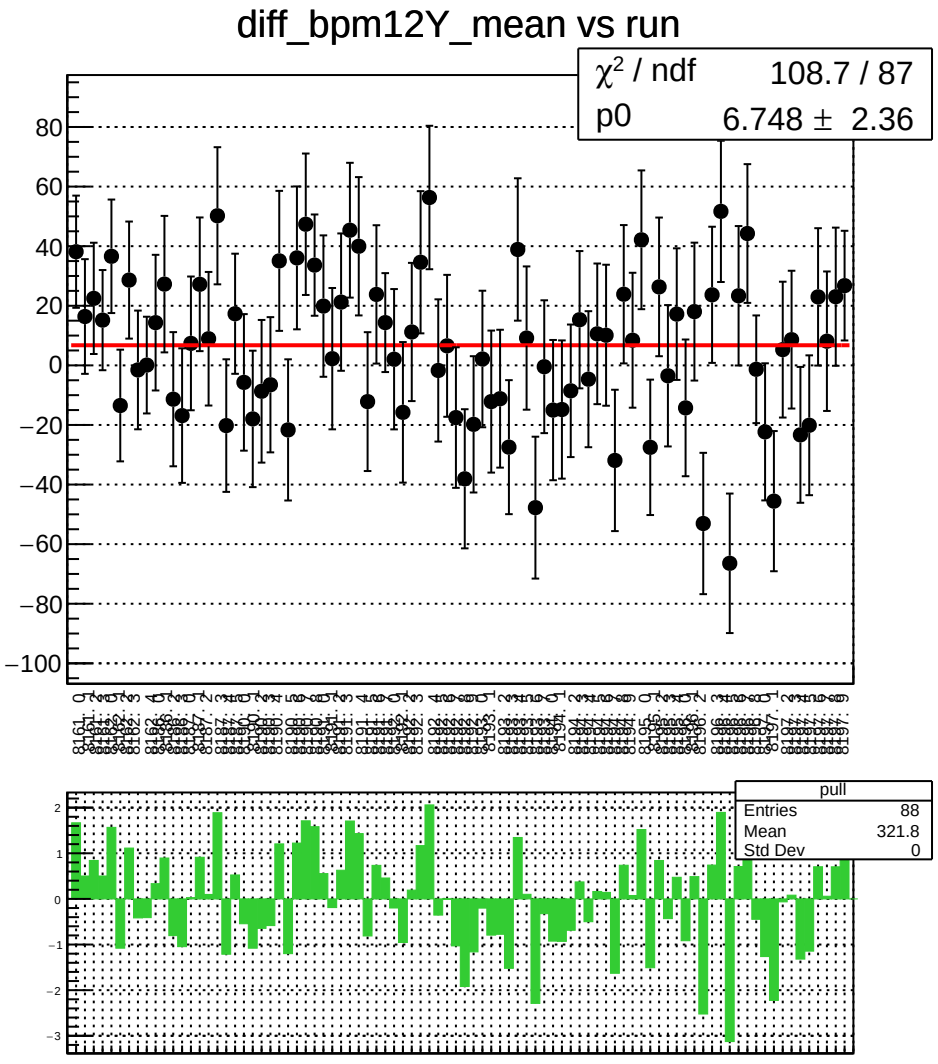

pull1D
Entries 88
Mean −0.005
Std Dev 1.062

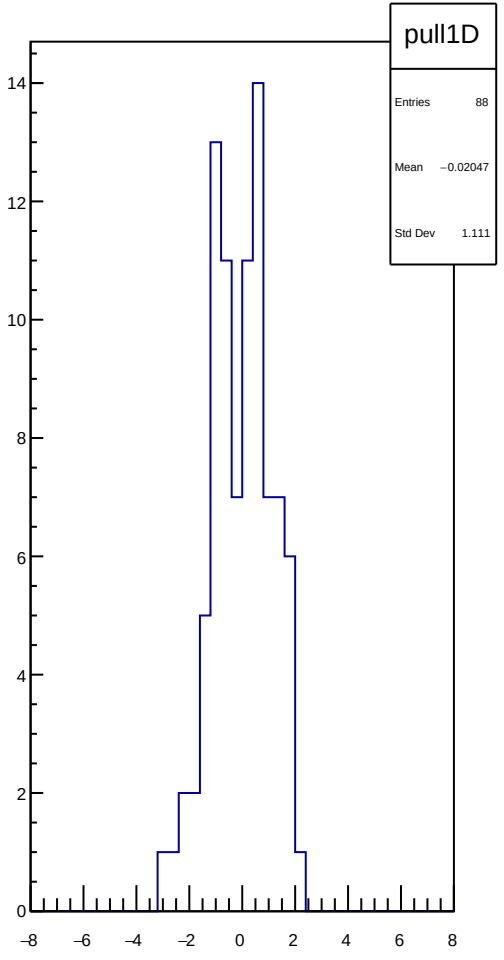

diff_bpm11Y_rms vs run
χ² / ndf 9895 / 87
p0 3902 ± 3.031
4400
4200
4000
3800
3600
3400
3200

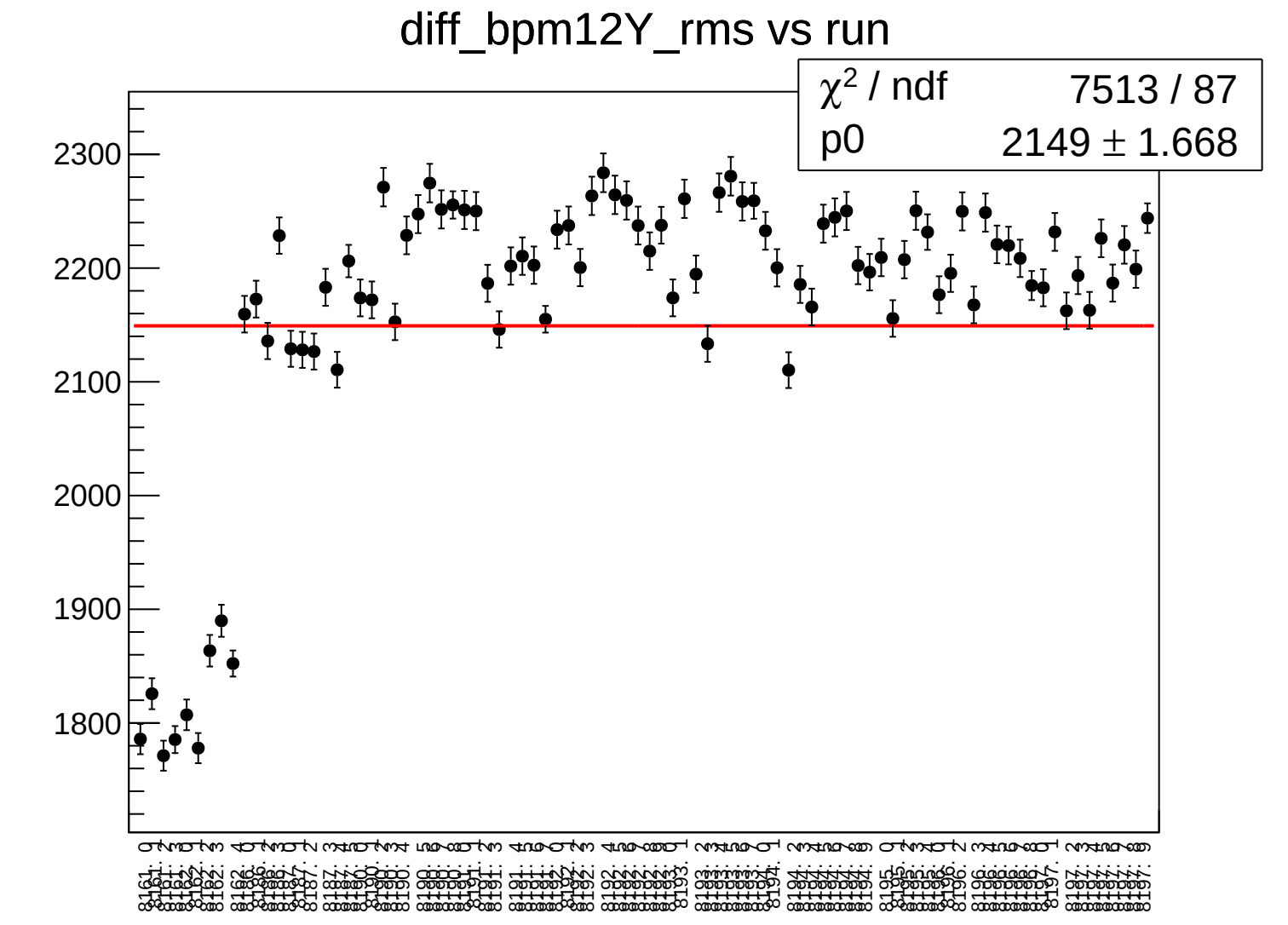

diff_bpm12X_mean vs run
χ² / ndf 80.55 / 87
p0 30.53 ± 46.83
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean −638.8
Std Dev 0
2
1
0
−1
−2

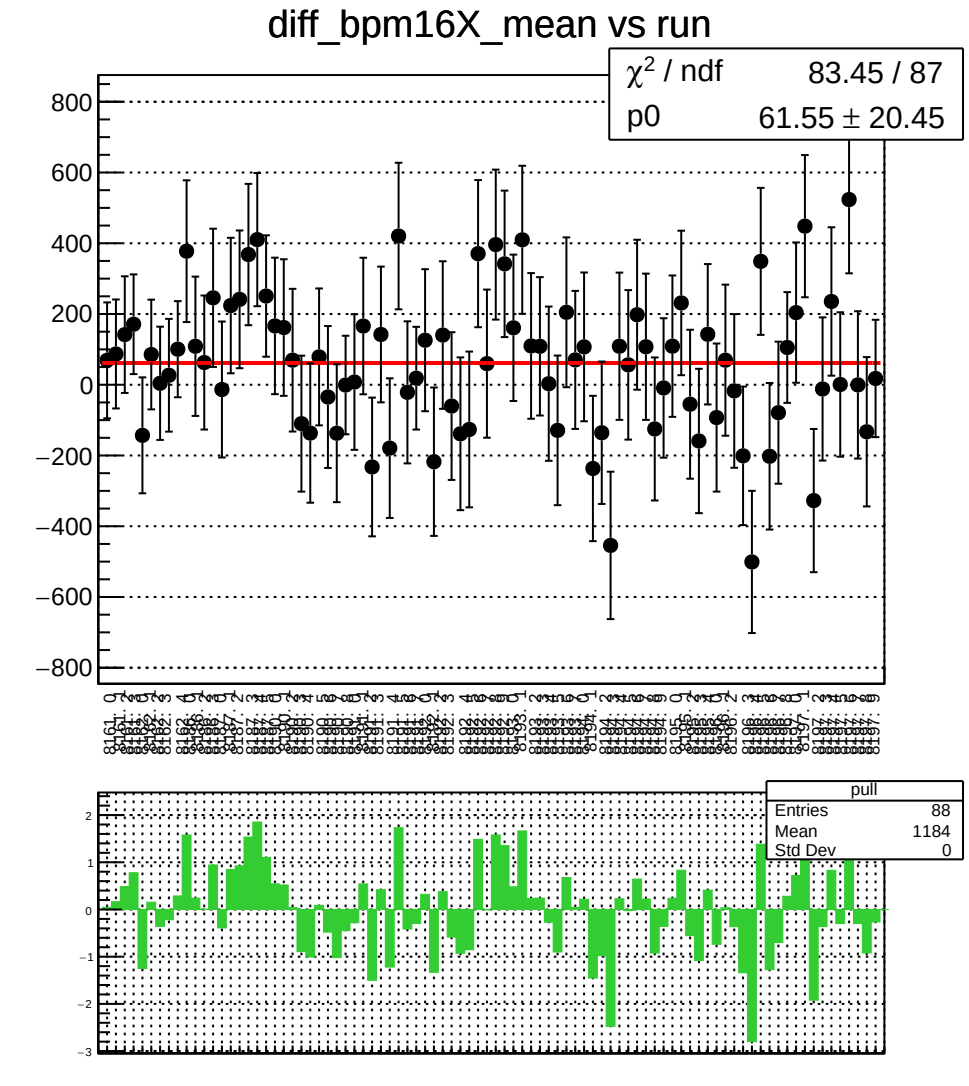

pull1D
Entries 88
Mean 0.002553
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm12X_rms vs run
χ² / ndf 7705 / 87
p0 4.265e+04 ± 33.11
48000
46000
44000
42000
40000
38000
36000
34000

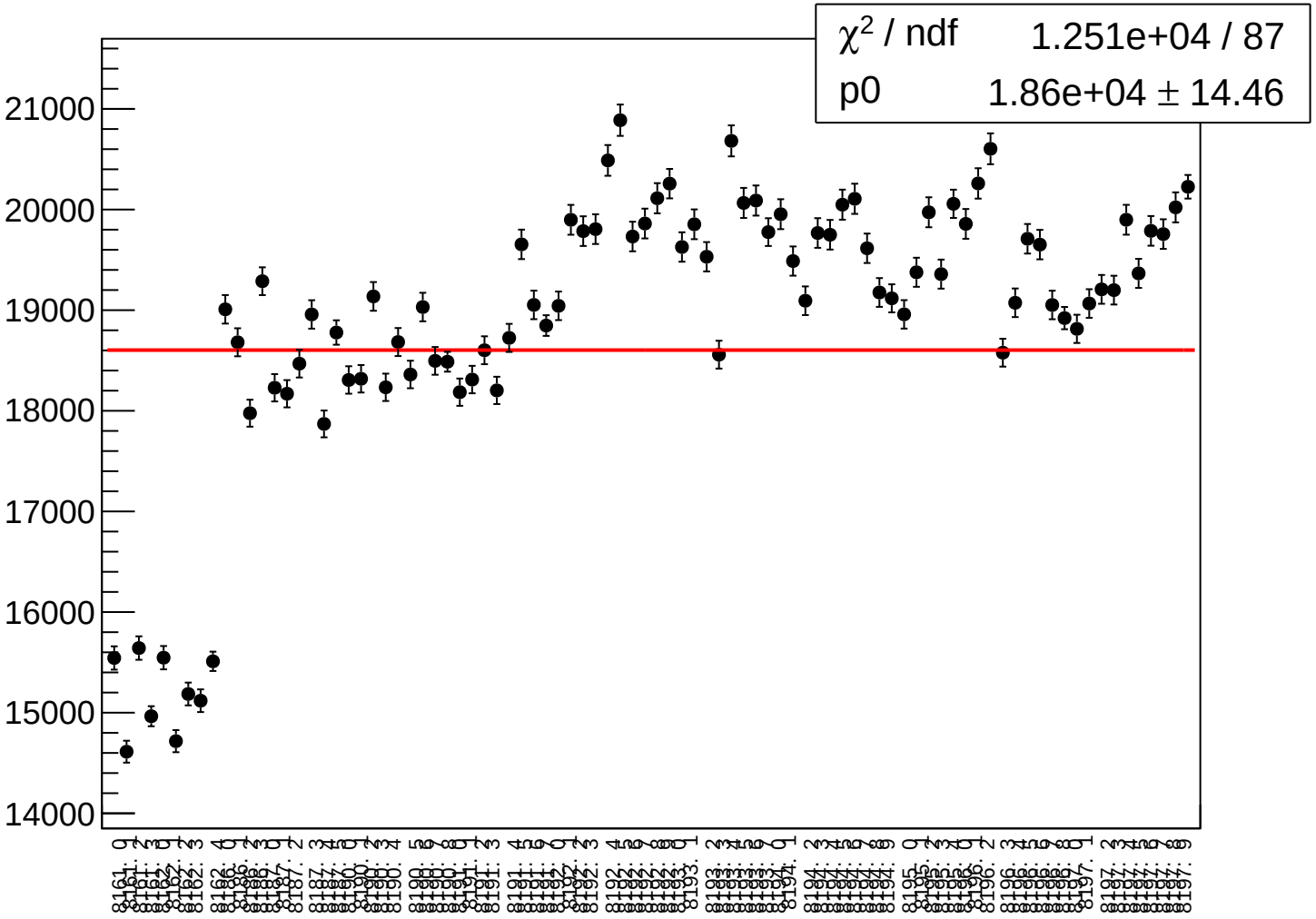

diff_bpm12Y_mean vs run
χ² / ndf 108.7 / 87
p0 6.748 ± 2.36
pull
Entries 88
Mean 321.8
Std Dev 0

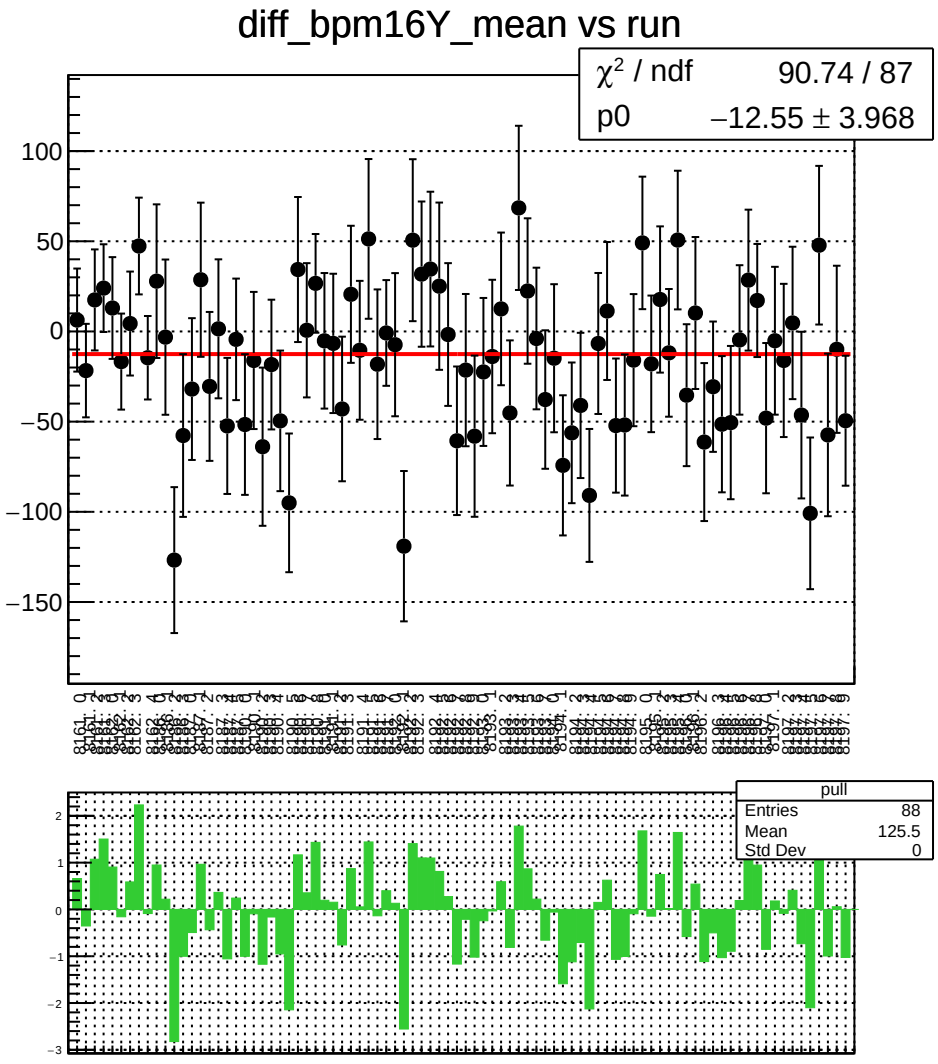

pull1D
Entries 88
Mean −0.02047
Std Dev 1.111

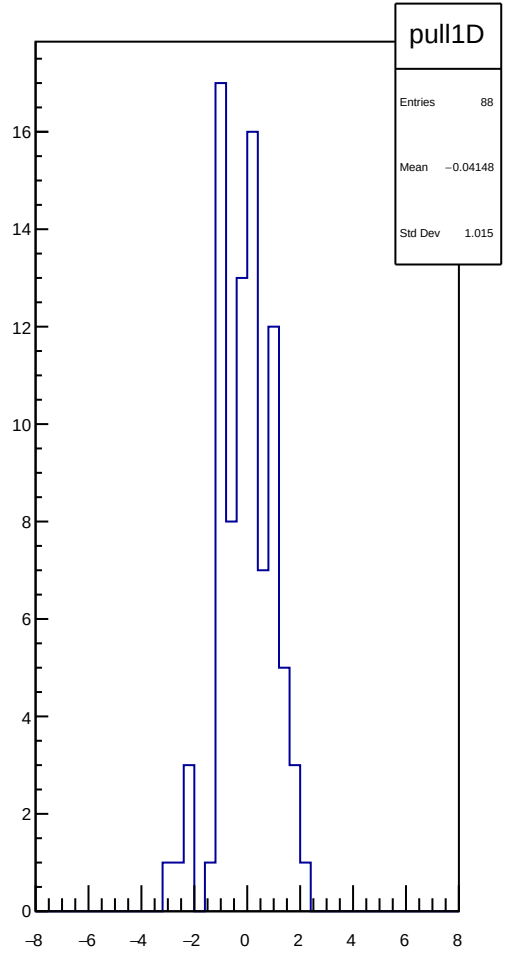

diff_bpm12Y_rms vs run
χ² / ndf 7513 / 87
p0 2149 ± 1.668
2300
2200
2100
2000
1900
1800

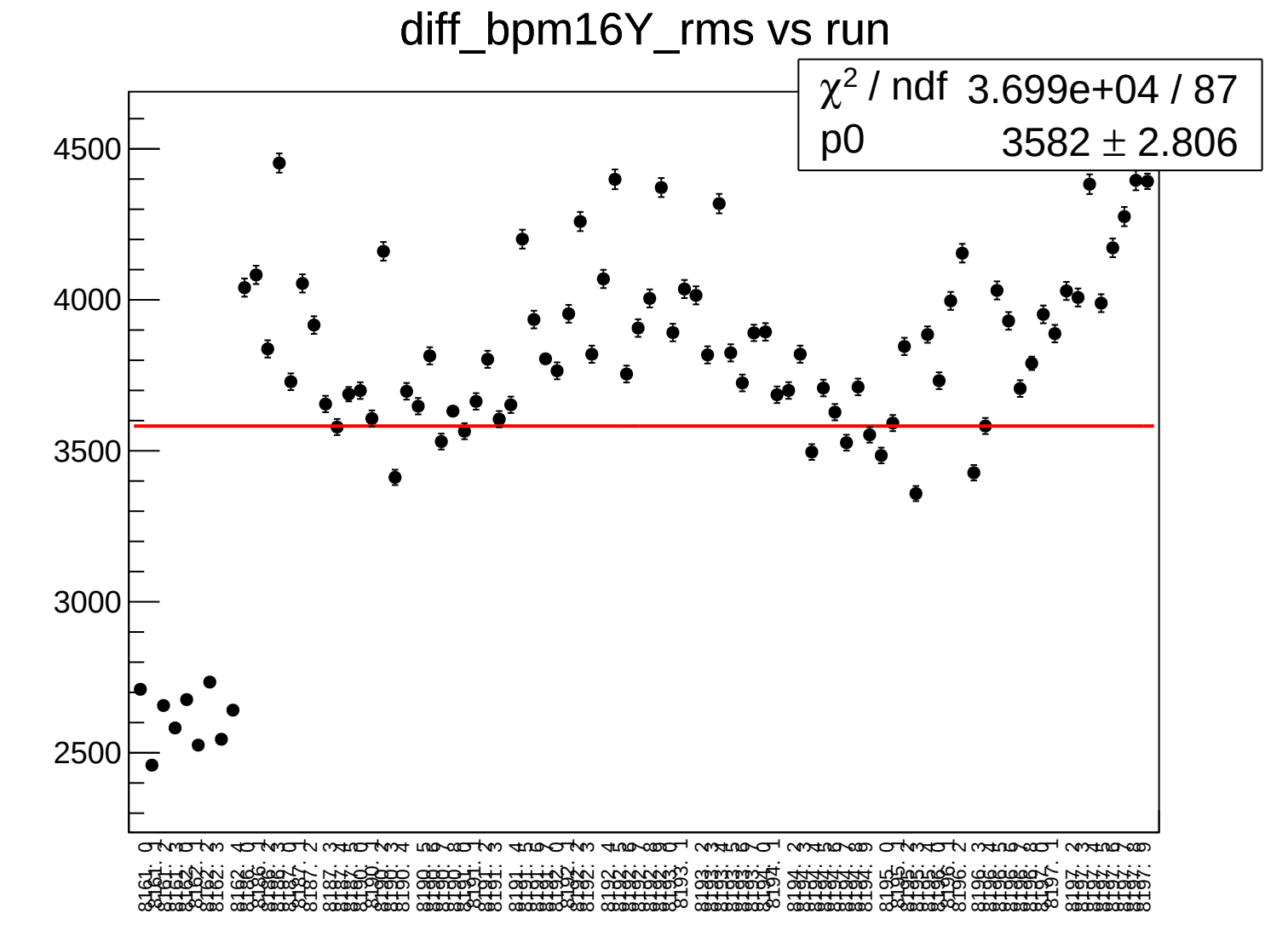

diff_bpm16X_mean vs run
χ² / ndf 83.45 / 87
p0 61.55 ± 20.45
pull
Entries 88
Mean 1184
Std Dev 0
pull1D
Entries 88
Mean −0.003521
Std Dev 0.9738

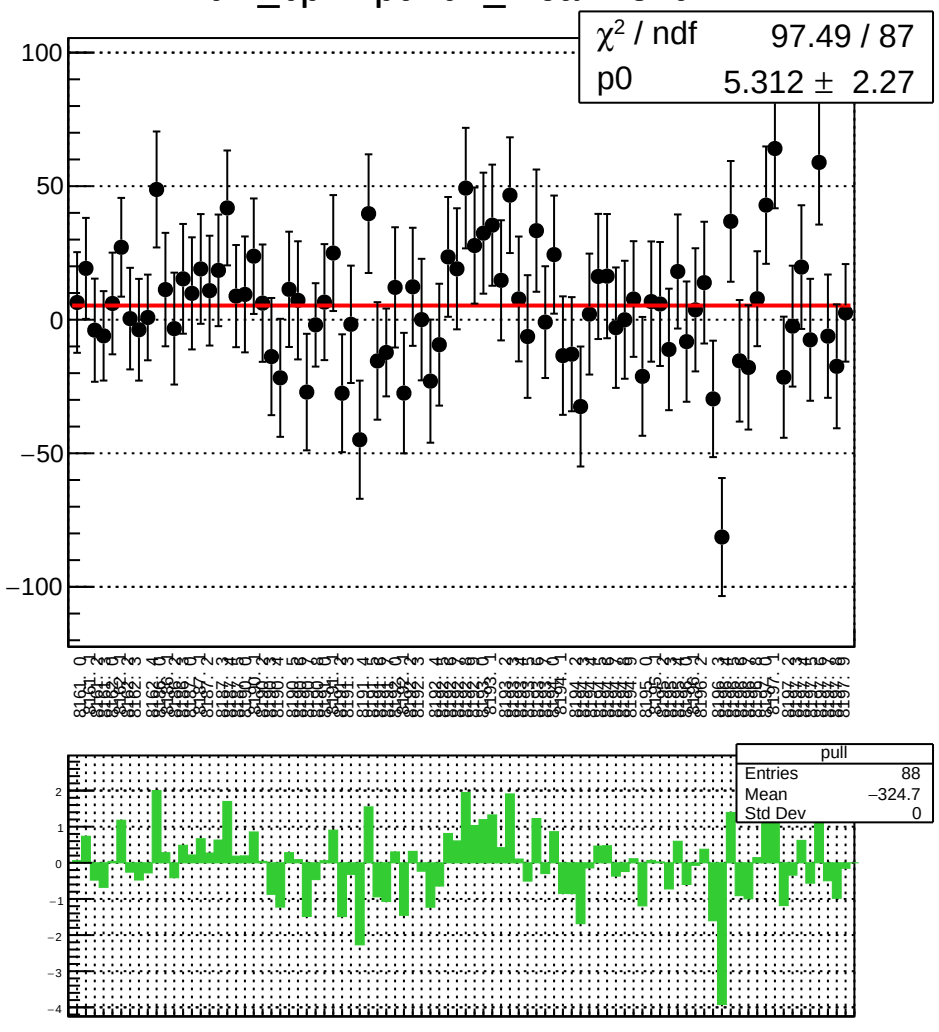
diff_bpm16X_rms vs run

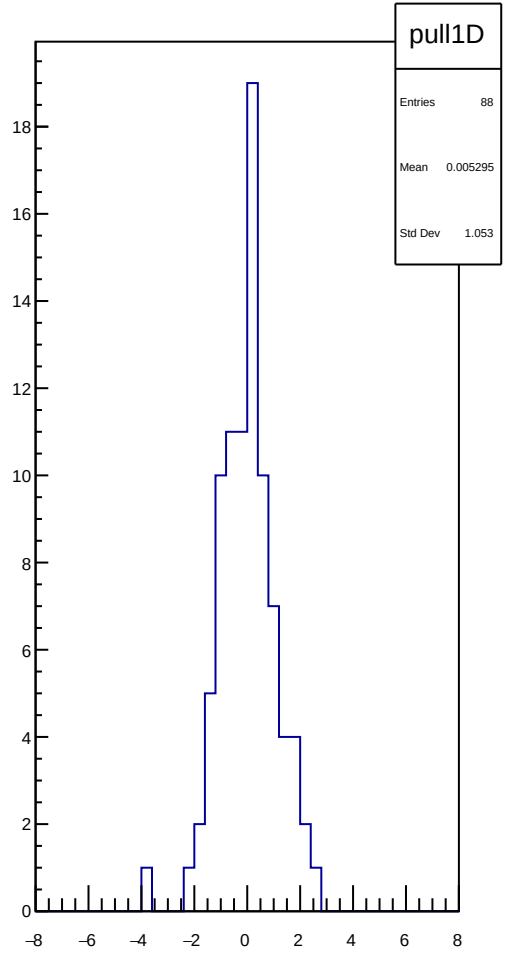


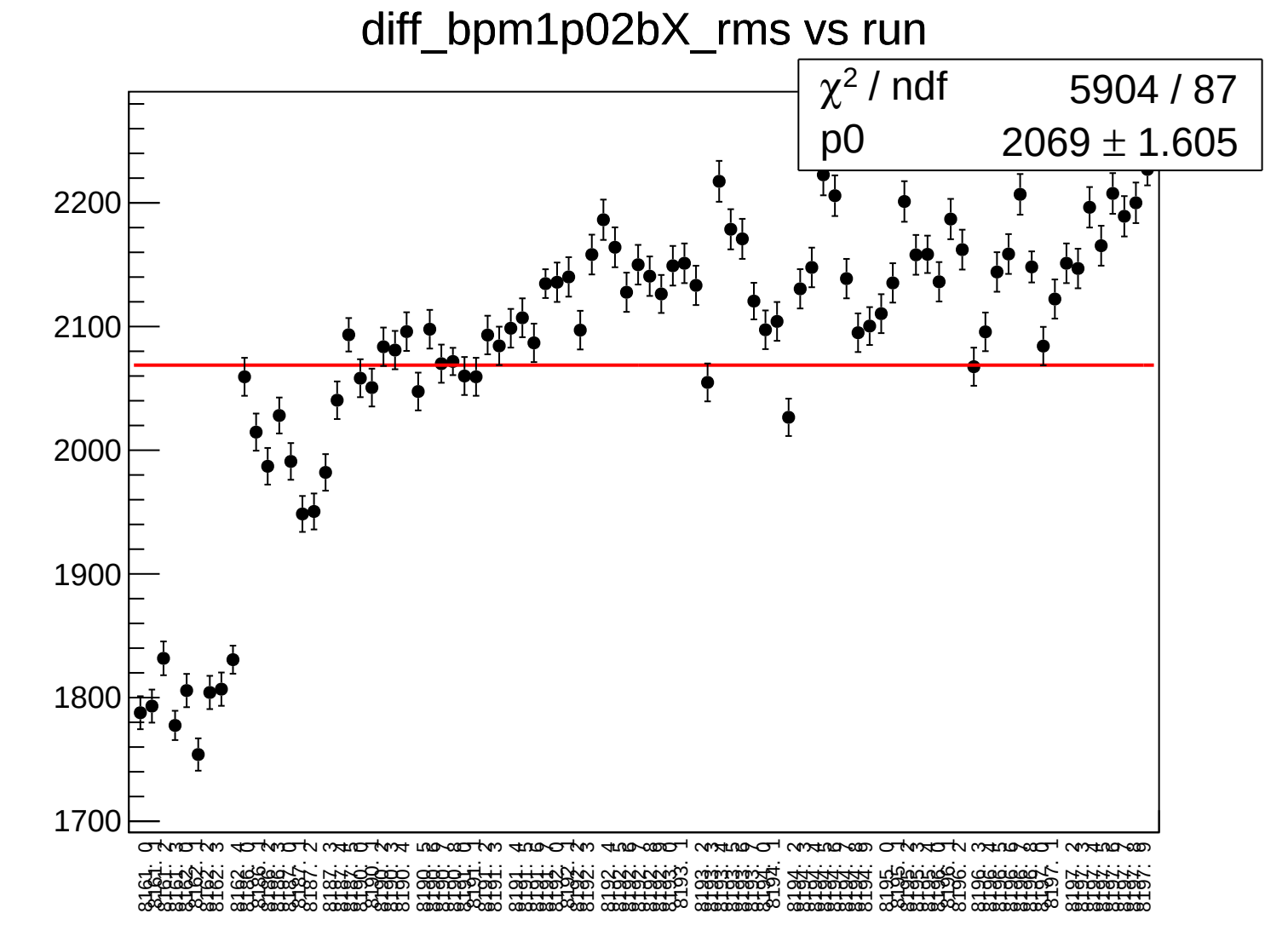

diff_bpm16Y_mean vs run
χ² / ndf 90.74 / 87
p0 −12.55 ± 3.968
100
50
0
−50
−100
−150
pull
Entries 88
Mean 125.5
Std Dev 0
2
1
0
−1
−2
−3

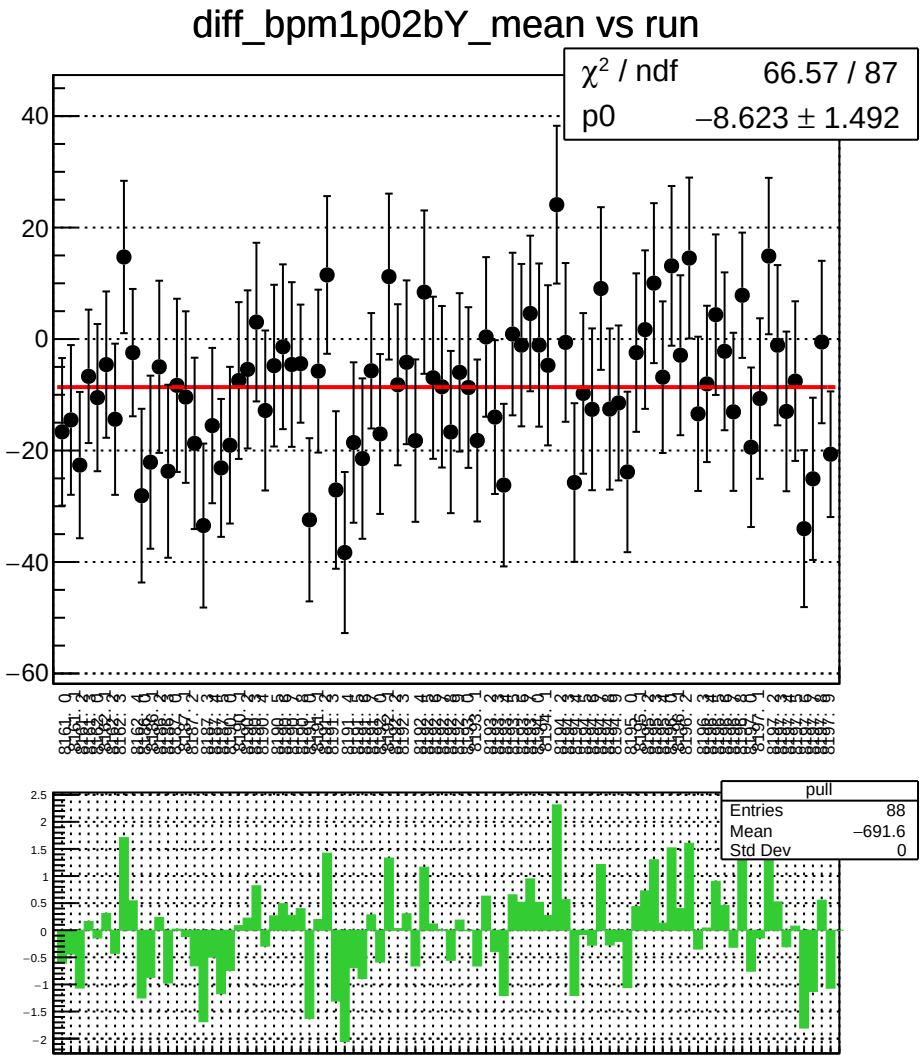

pull1D
Entries 88
Mean −0.04148
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

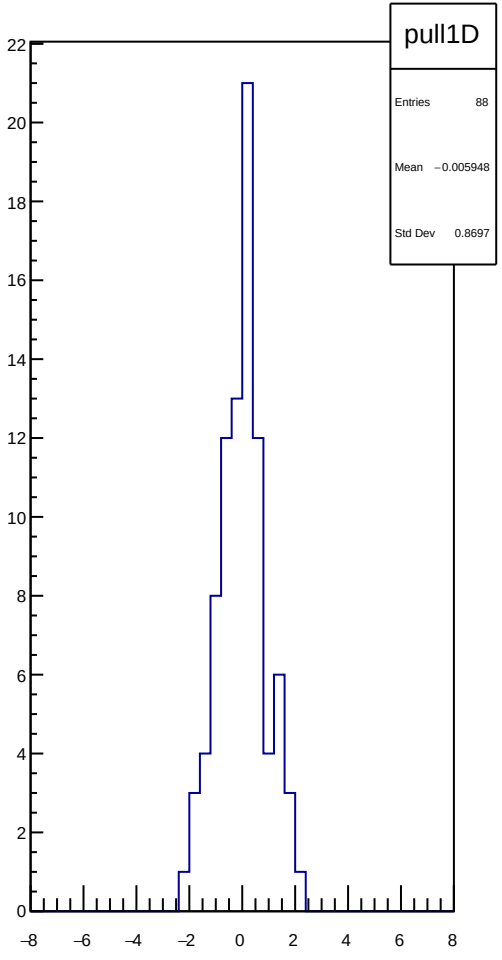

diff_bpm16Y_rms vs run
χ^2 / ndf 3.699e+04 / 87
p0 3582 ± 2.806
4500
4000
3500
3000
2500

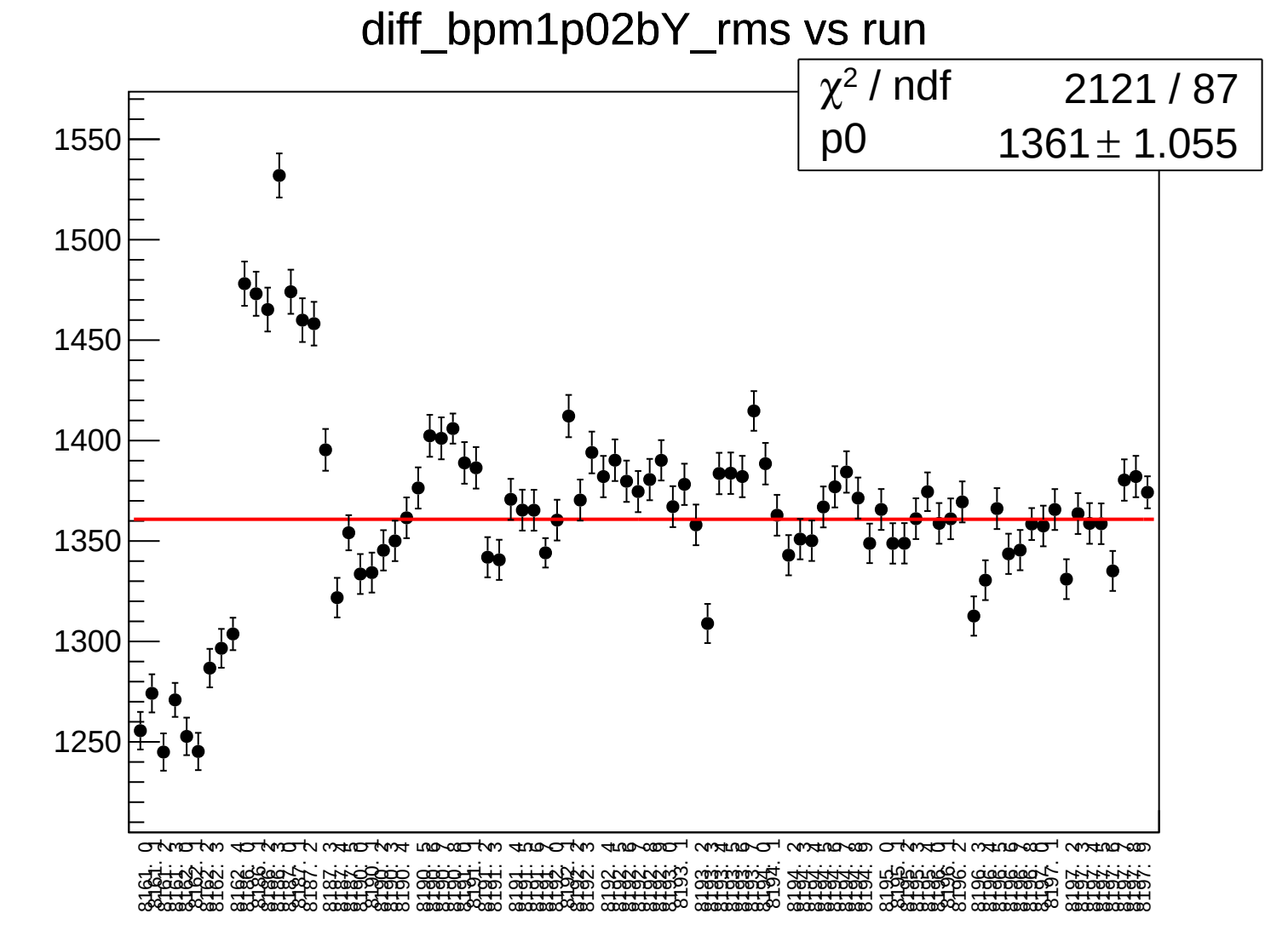

diff_bpm1p02bX_mean vs run
χ² / ndf 97.49 / 87
p0 5.312 ± 2.27
100
50
0
−50
−100
pull
Entries 88
Mean −324.7
Std Dev 0
2
1
0
−1
−2
−3
−4

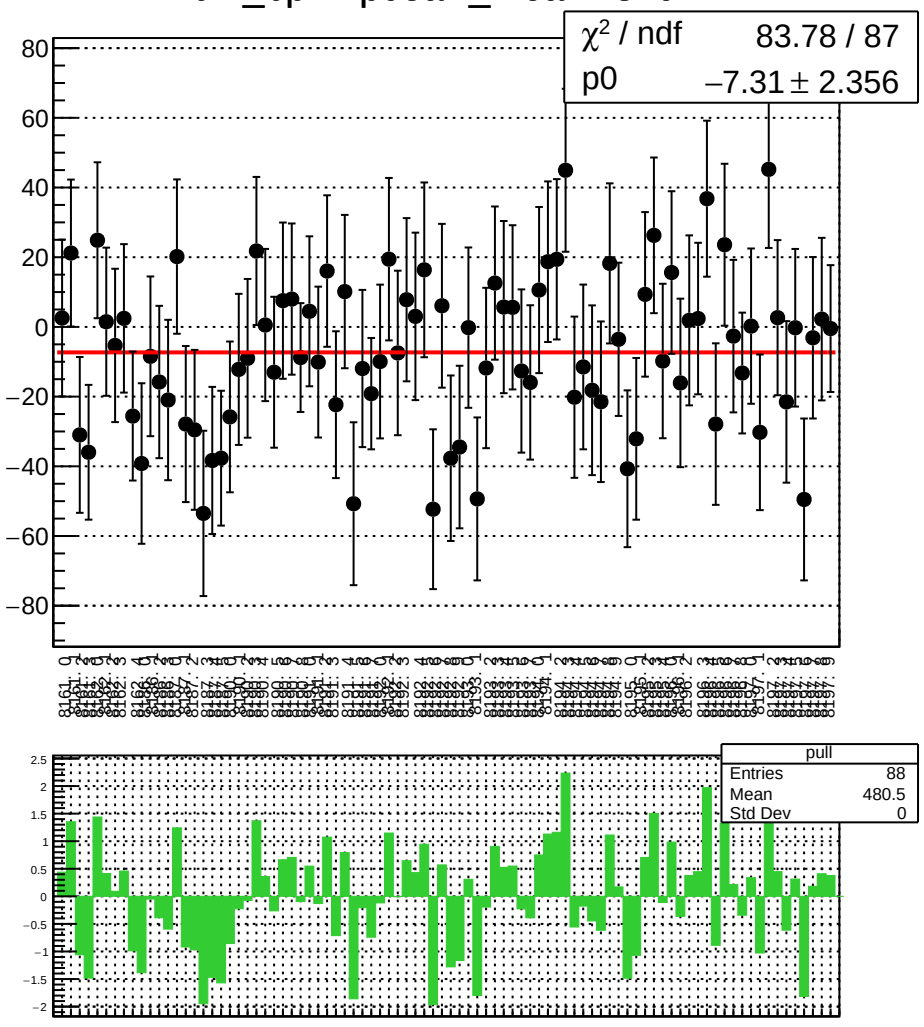

pull1D
Entries 88
Mean 0.005295
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

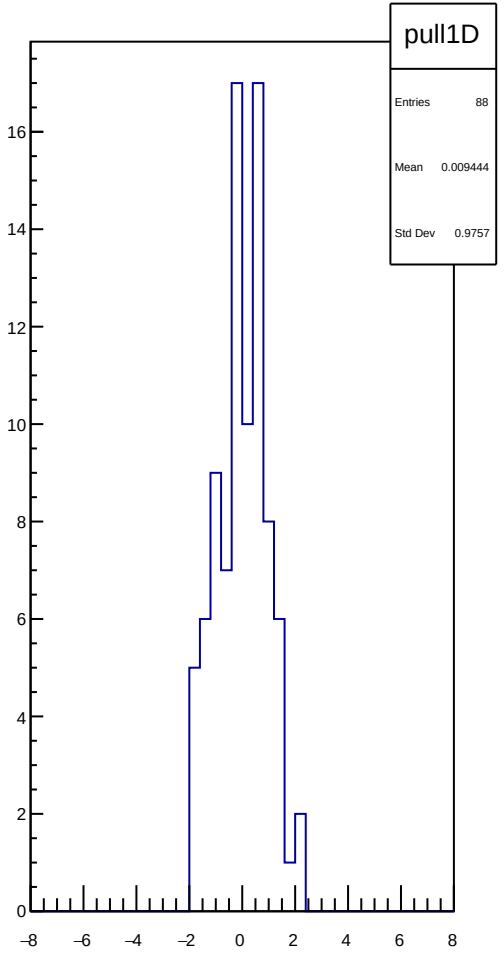

diff_bpm1p02bX_rms vs run
χ² / ndf 5904 / 87
p0 2069 ± 1.605
2200
2100
2000
1900
1800
1700

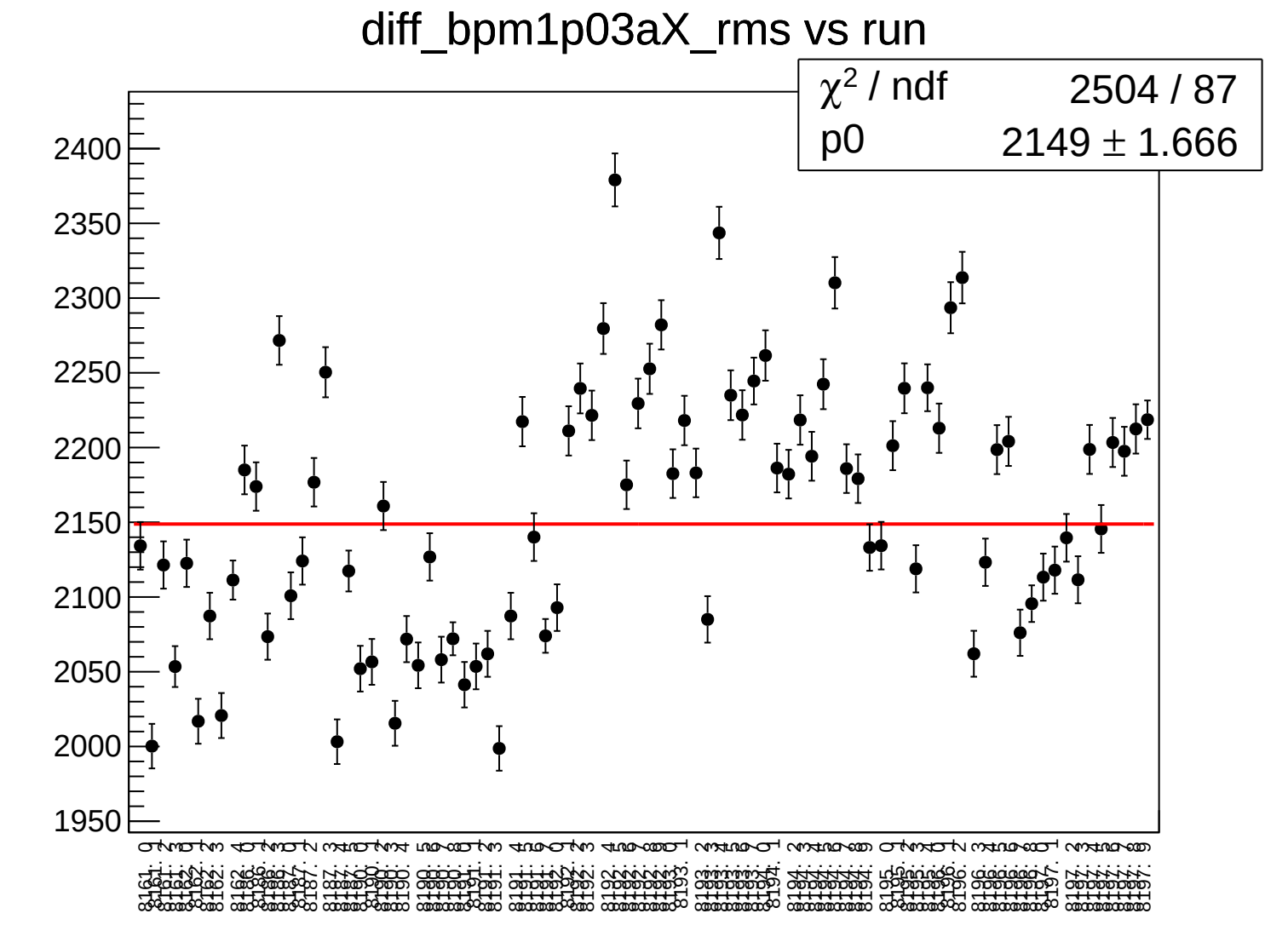

diff_bpm1p02bY_mean vs run
χ² / ndf 66.57 / 87
p0 −8.623 ± 1.492
pull
Entries 88
Mean −691.6
Std Dev 0

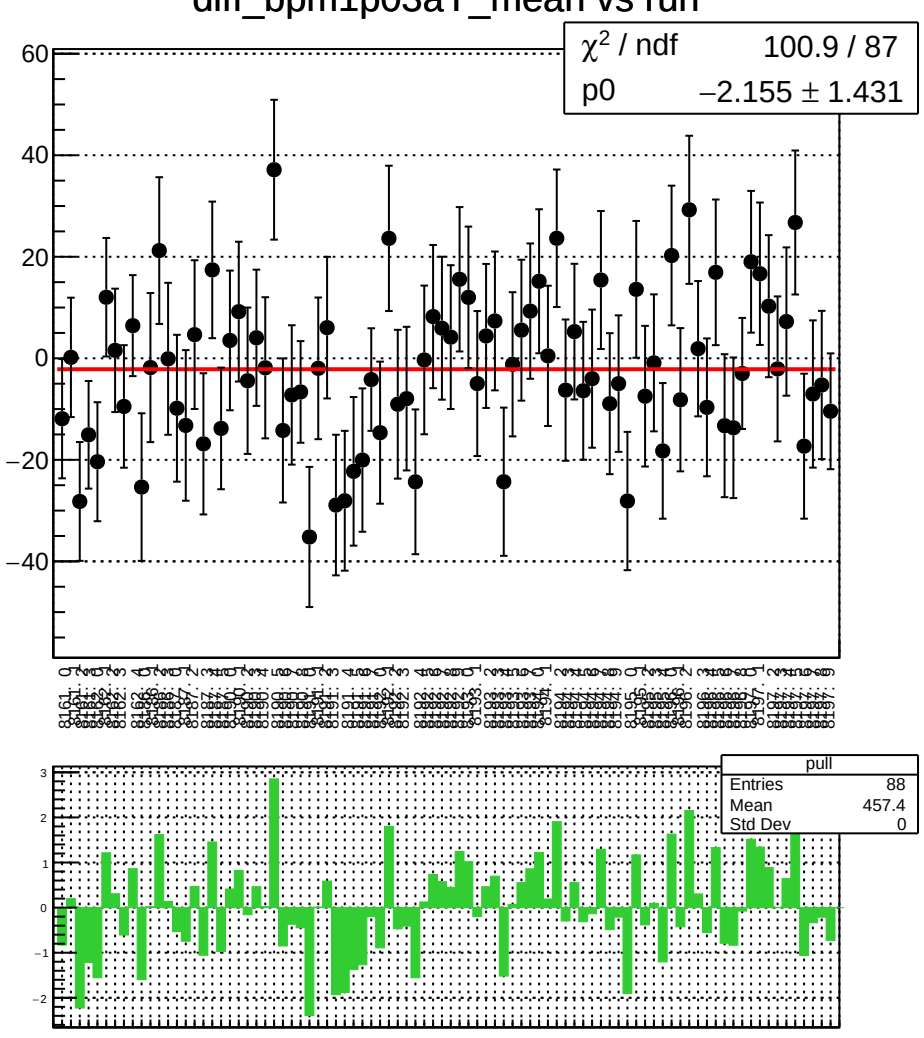

pull1D
Entries 88
Mean −0.005948
Std Dev 0.8697

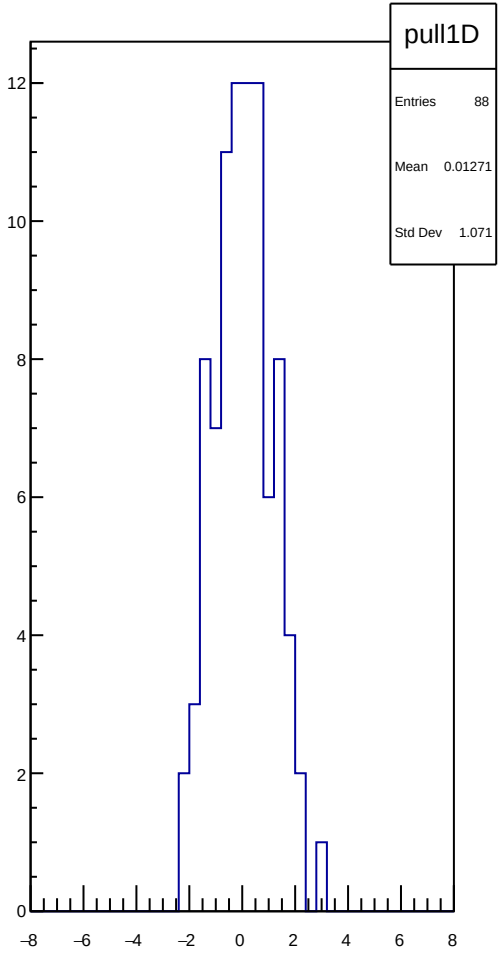

diff_bpm1p02bY_rms vs run
χ² / ndf 2121 / 87
p0 1361 ± 1.055
1550
1500
1450
1400
1350
1300
1250

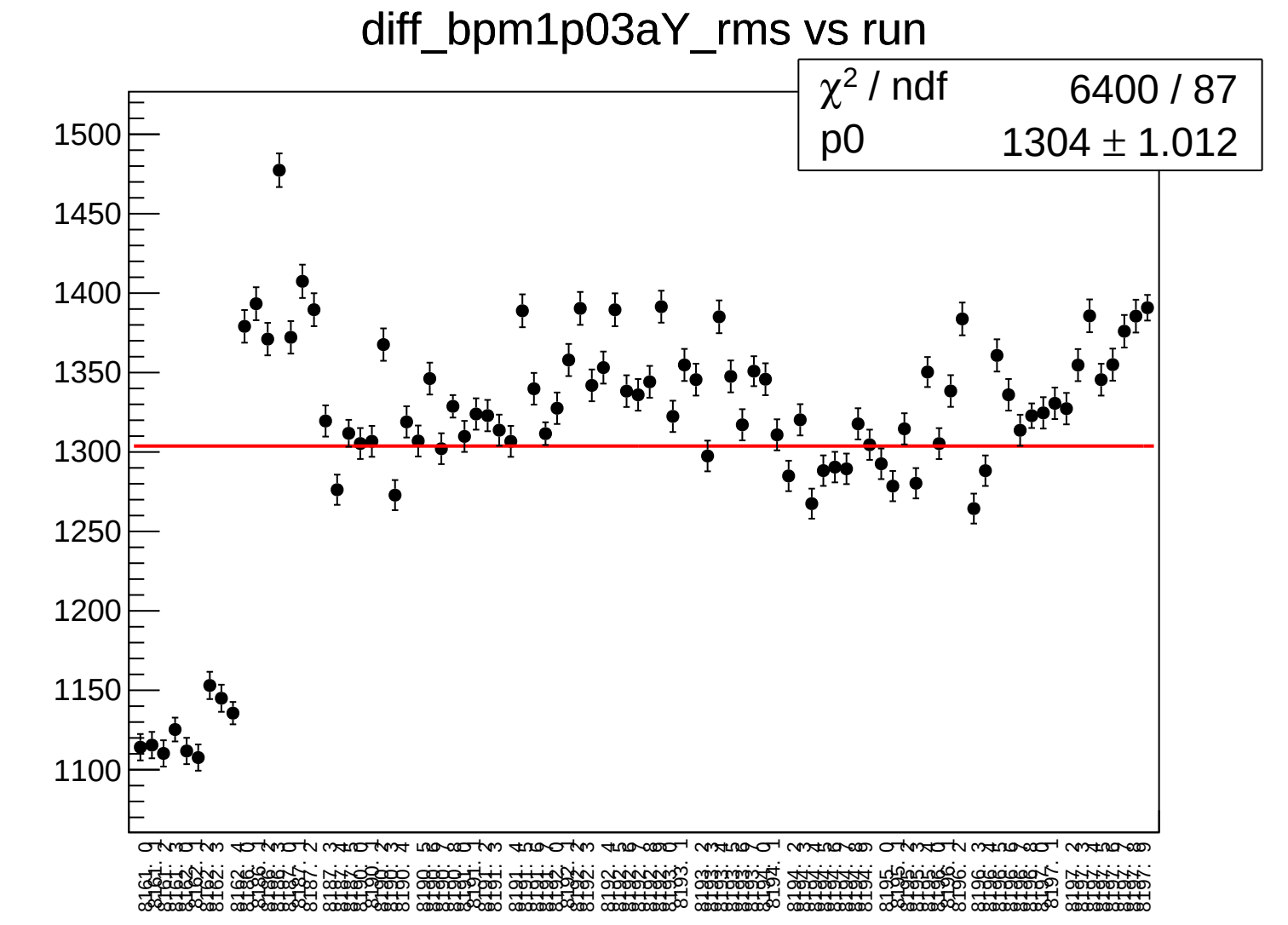

diff_bpm1p03aX_mean vs run
χ² / ndf 83.78 / 87
p0 −7.31 ± 2.356
pull
Entries 88
Mean 480.5
Std Dev 0

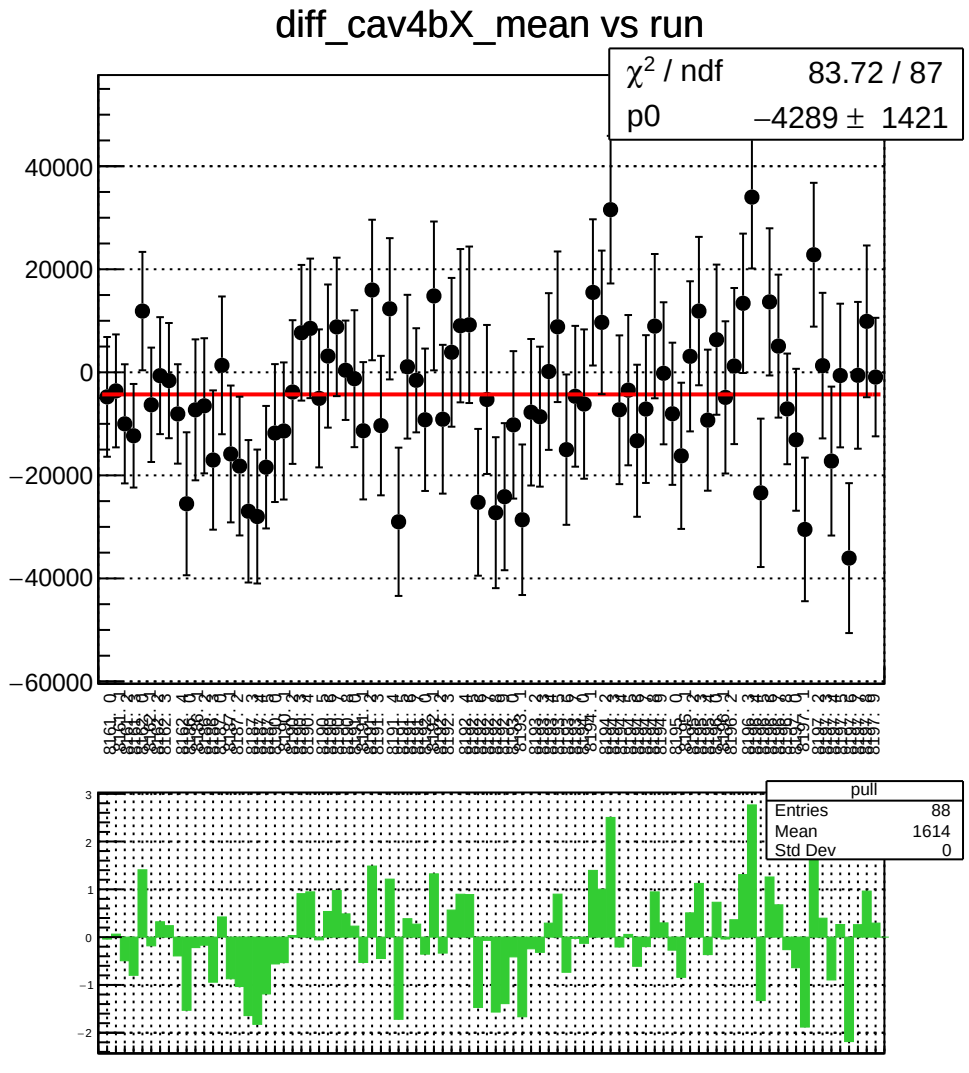

pull1D
Entries 88
Mean 0.009444
Std Dev 0.9757

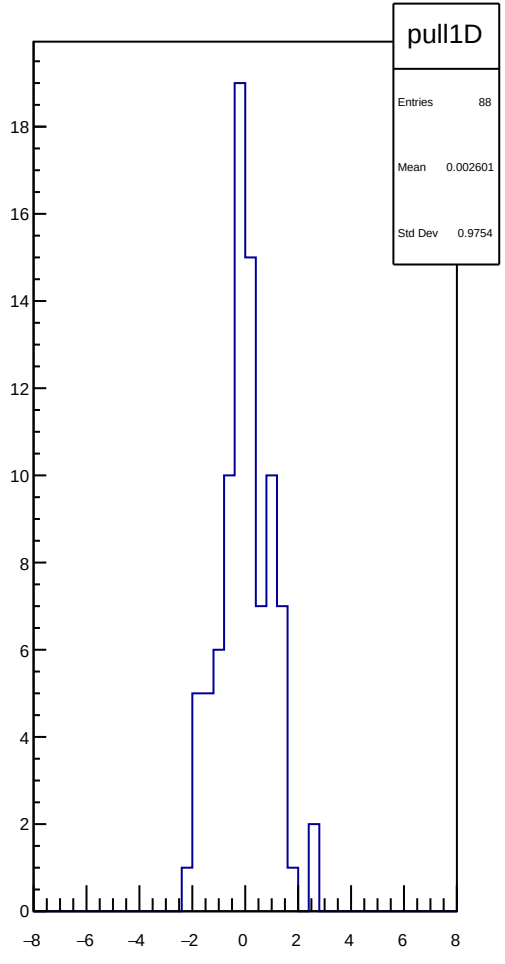

diff_bpm1p03aX_rms vs run
χ² / ndf 2504 / 87
p0 2149 ± 1.666
2400
2350
2300
2250
2200
2150
2100
2050
2000
1950

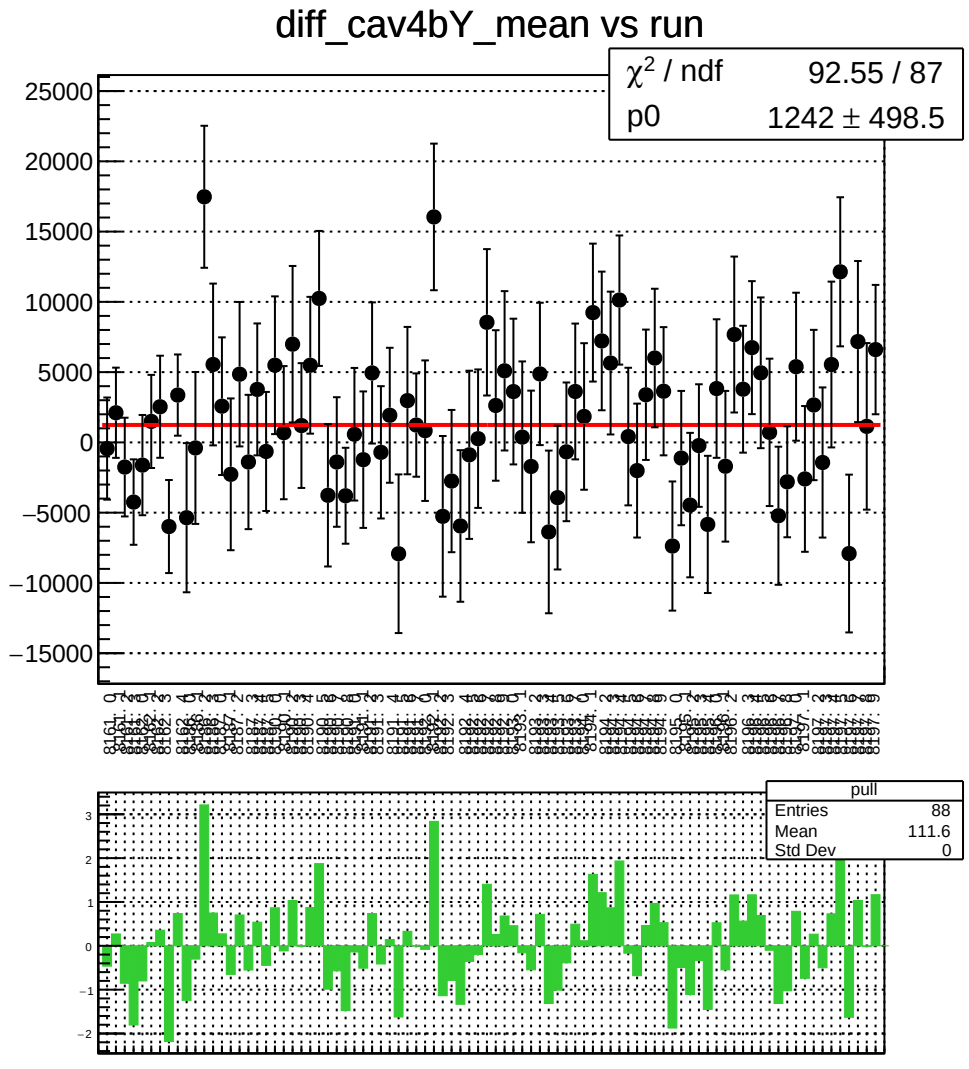

diff_bpm1p03aY_mean vs run
χ² / ndf 100.9 / 87
p0 −2.155 ± 1.431
pull
Entries 88
Mean 457.4
Std Dev 0

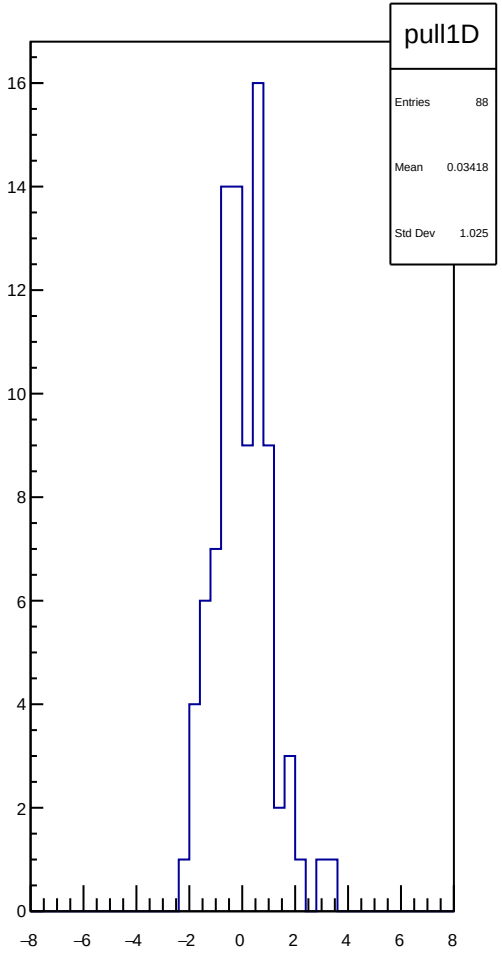

pull1D
Entries 88
Mean 0.01271
Std Dev 1.071

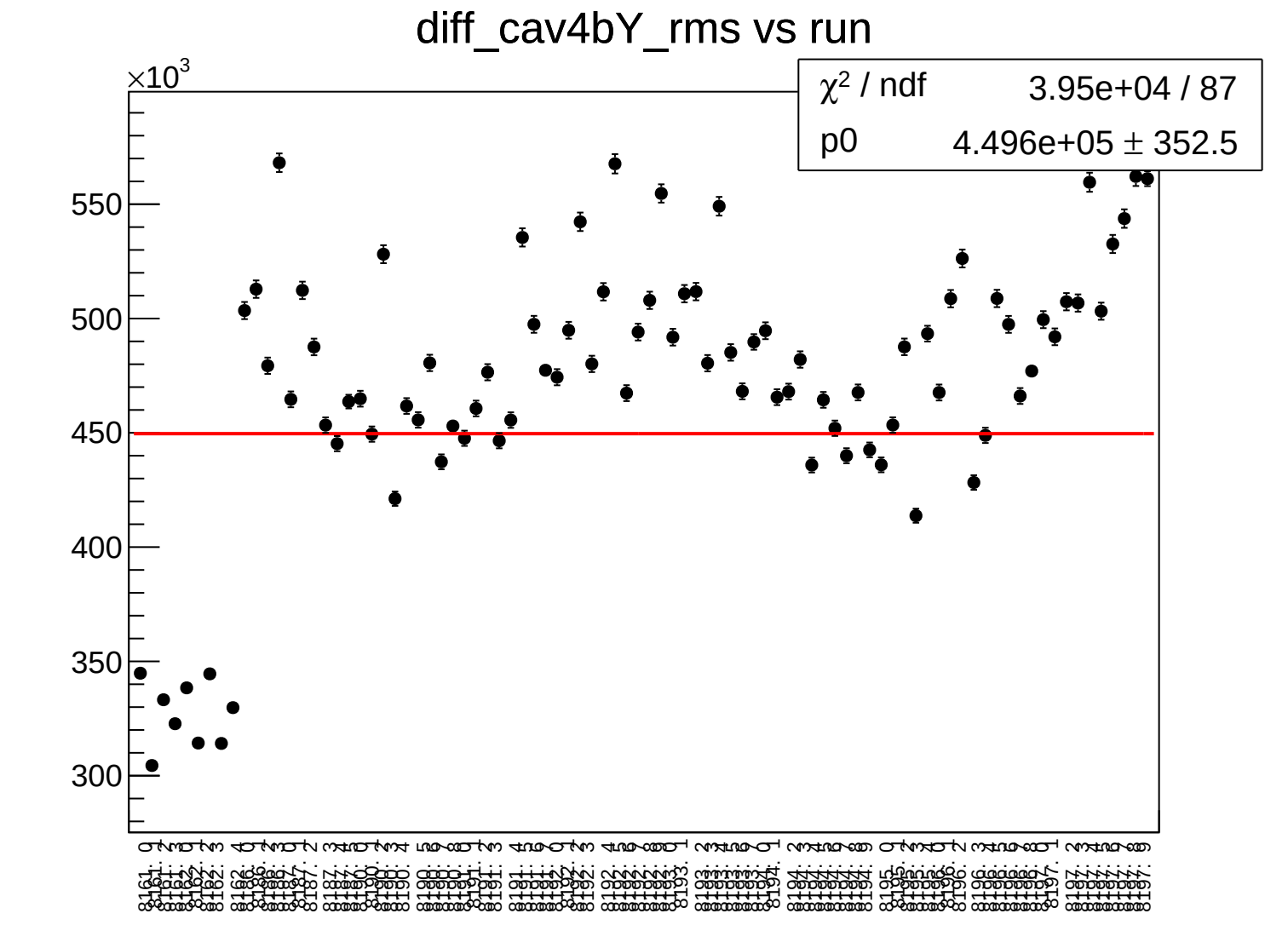

diff_bpm1p03aY_rms vs run
χ² / ndf 6400 / 87
p0 1304 ± 1.012
1500
1450
1400
1350
1300
1250
1200
1150
1100

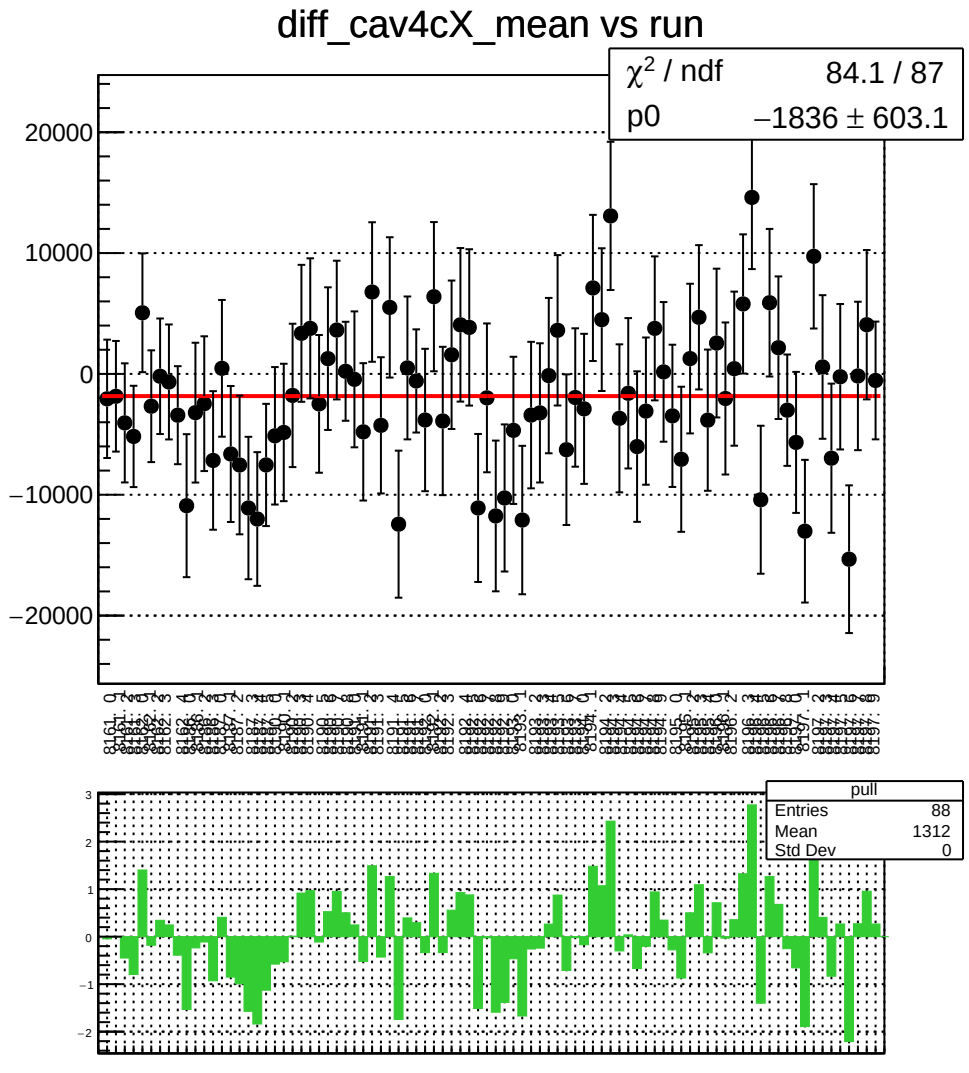

diff_cav4bX_mean vs run
χ² / ndf 83.72 / 87
p0 −4289 ± 1421
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1614
Std Dev 0
3
2
1
0
−1
−2

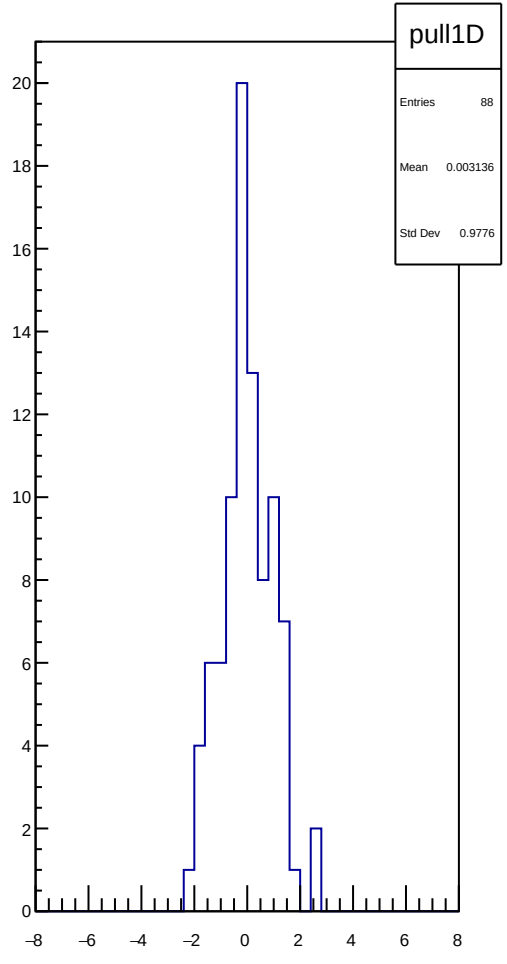

pull1D
Entries 88
Mean 0.002601
Std Dev 0.9754
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

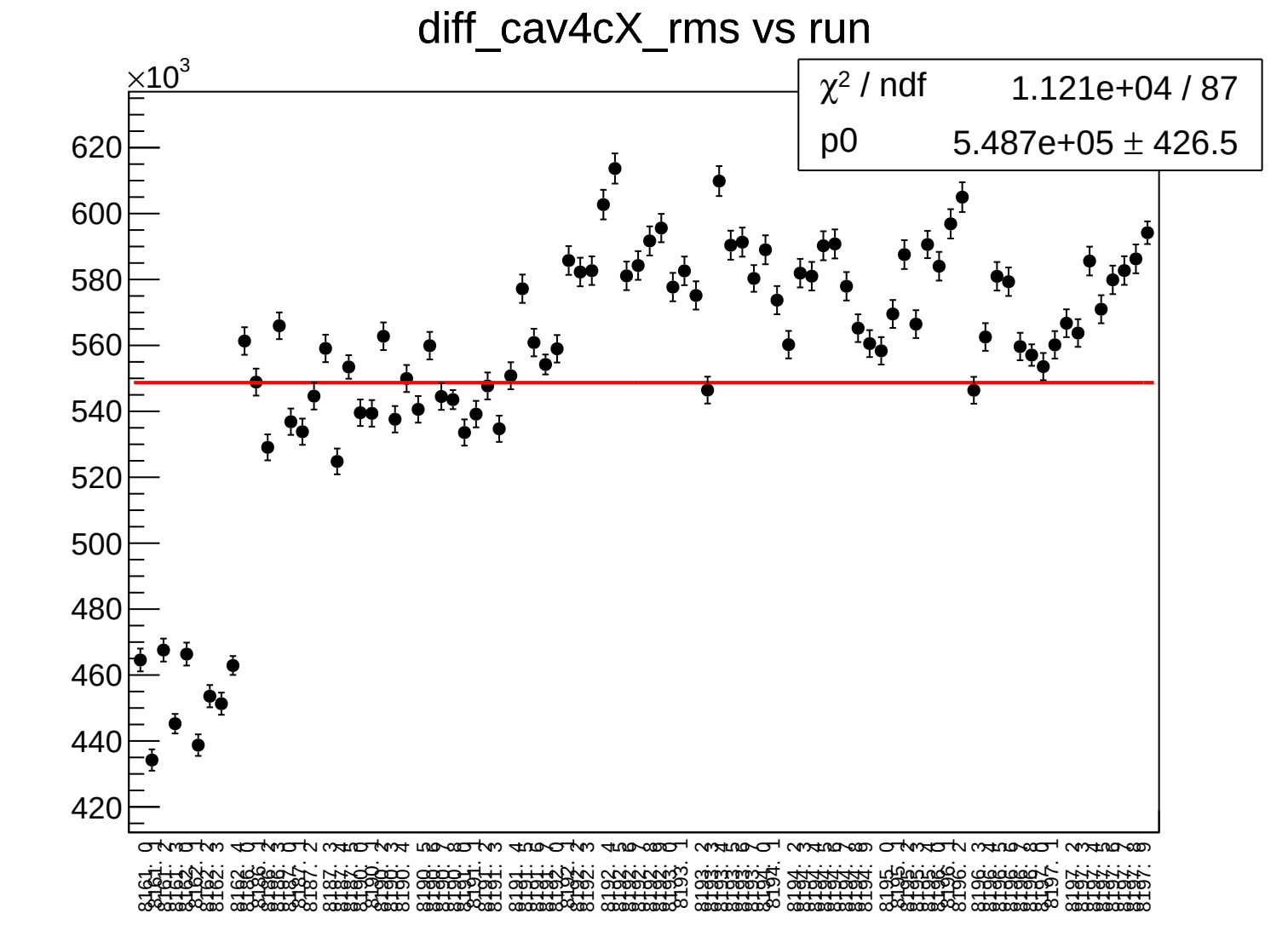

diff_cav4bY_mean vs run
χ² / ndf 92.55 / 87
p0 1242 ± 498.5
pull
Entries 88
Mean 111.6
Std Dev 0

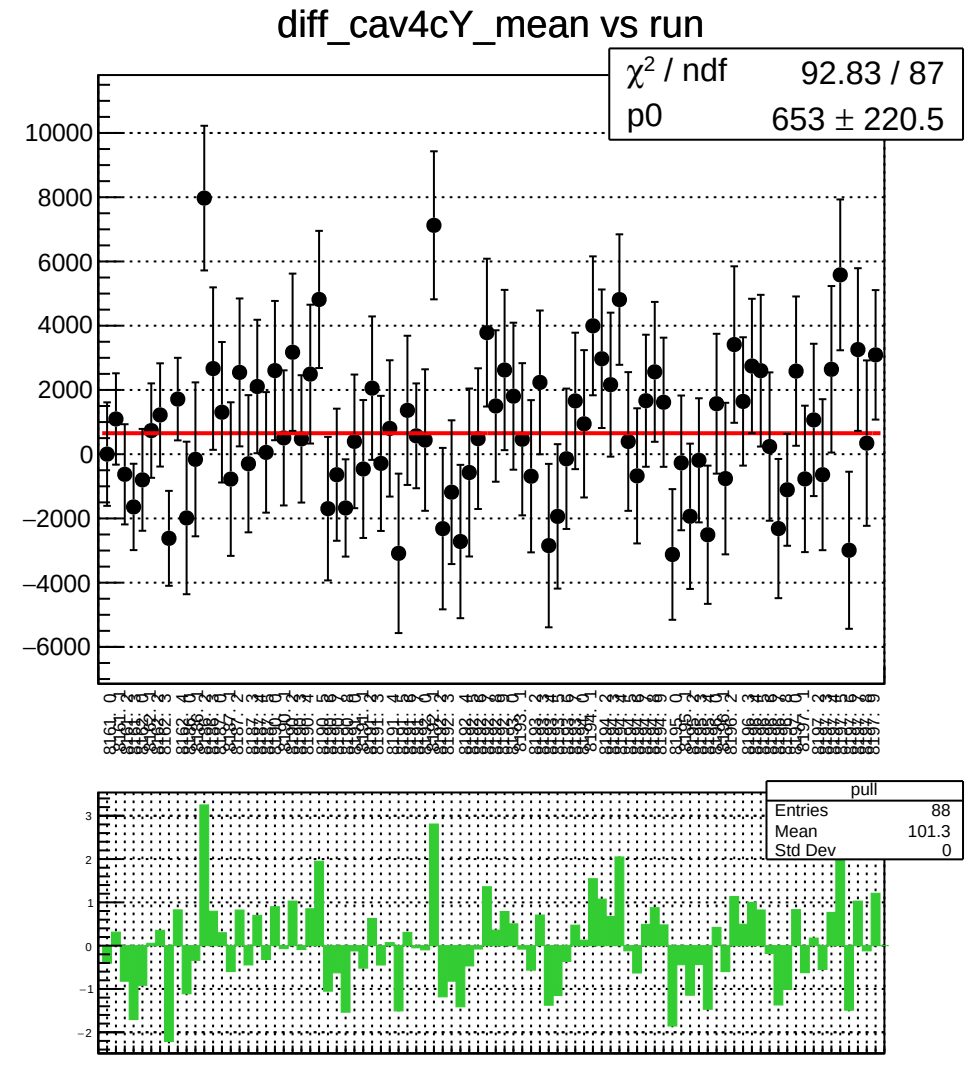

pull1D
Entries 88
Mean 0.03418
Std Dev 1.025

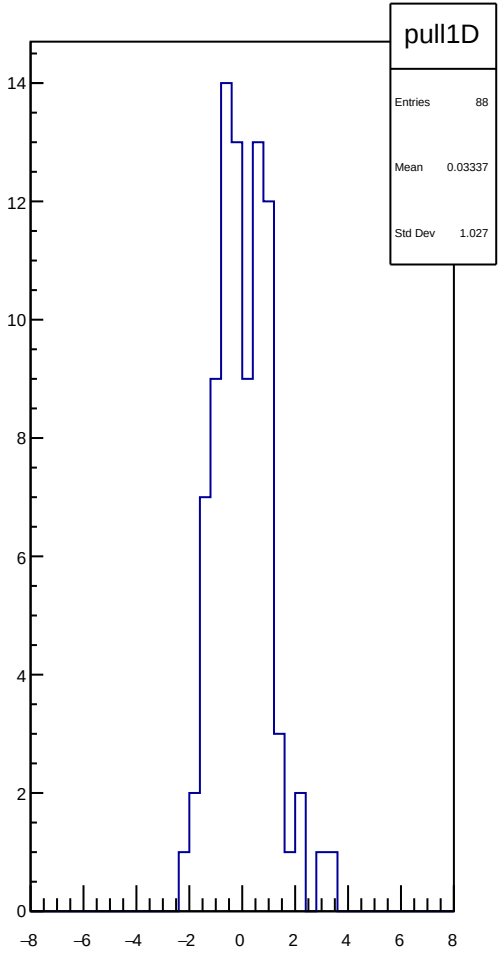

diff_cav4bY_rms vs run
×10^3
χ² / ndf 3.95e+04 / 87
p0 4.496e+05 ± 352.5
550
500
450
400
350
300

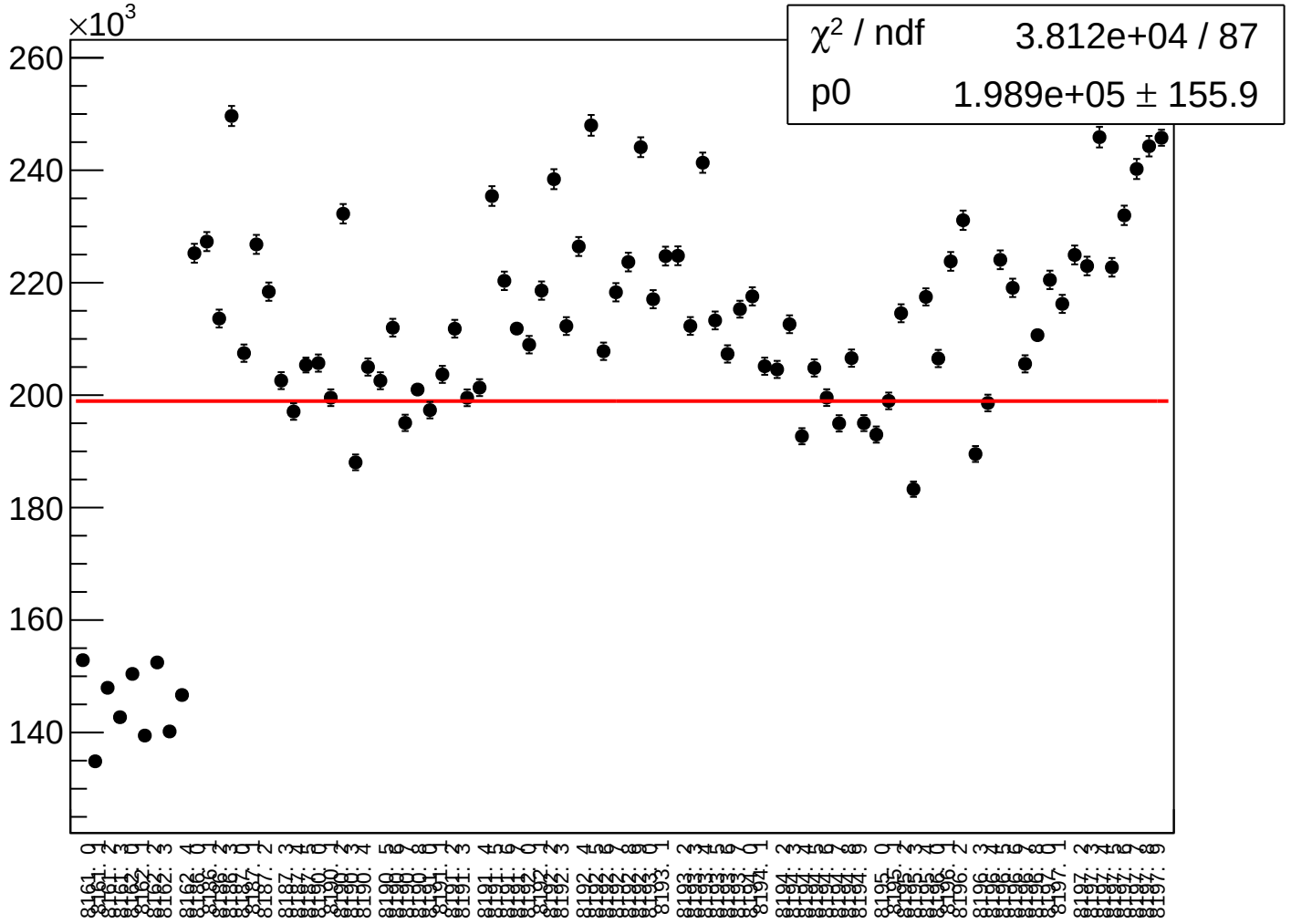

diff_cav4cX_mean vs run
χ² / ndf 84.1 / 87
p0 −1836 ± 603.1
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 1312
Std Dev 0
3
2
1
0
−1
−2

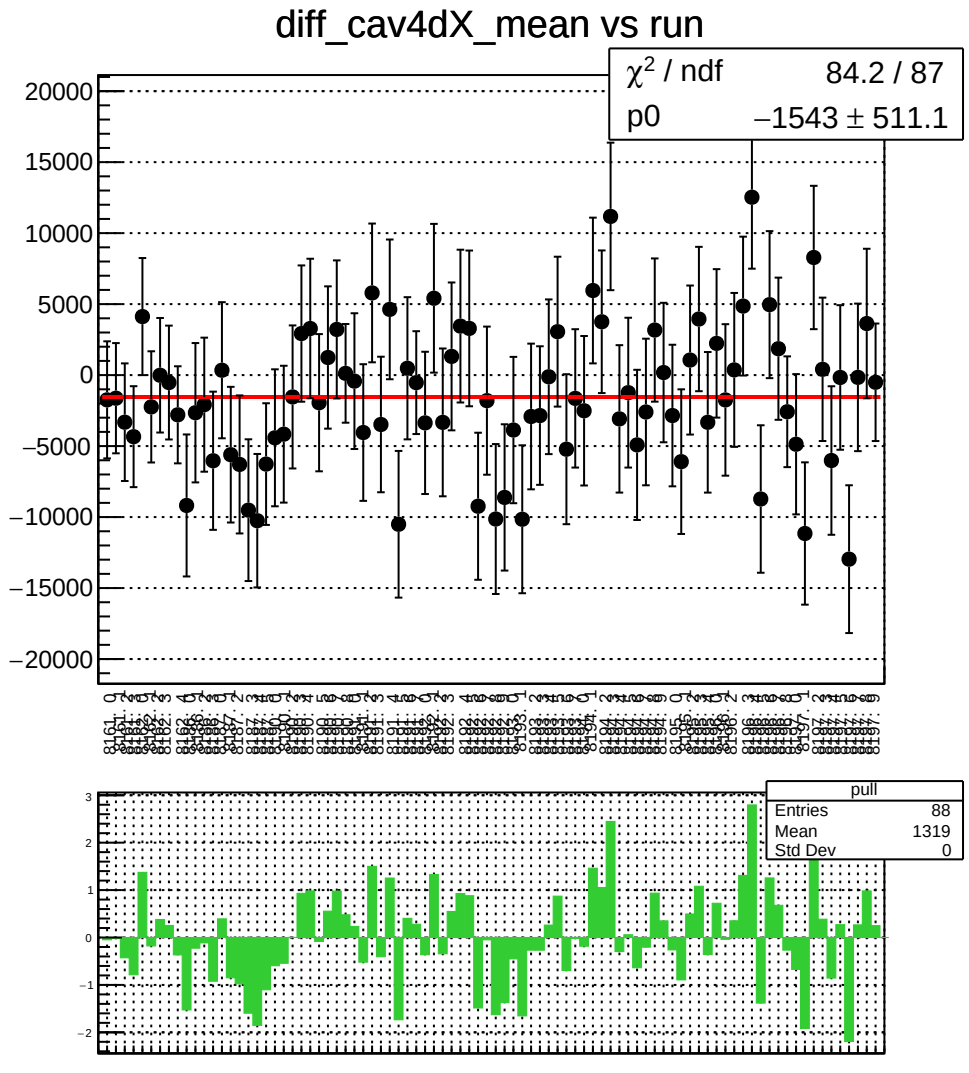

pull1D
Entries 88
Mean 0.003136
Std Dev 0.9776
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

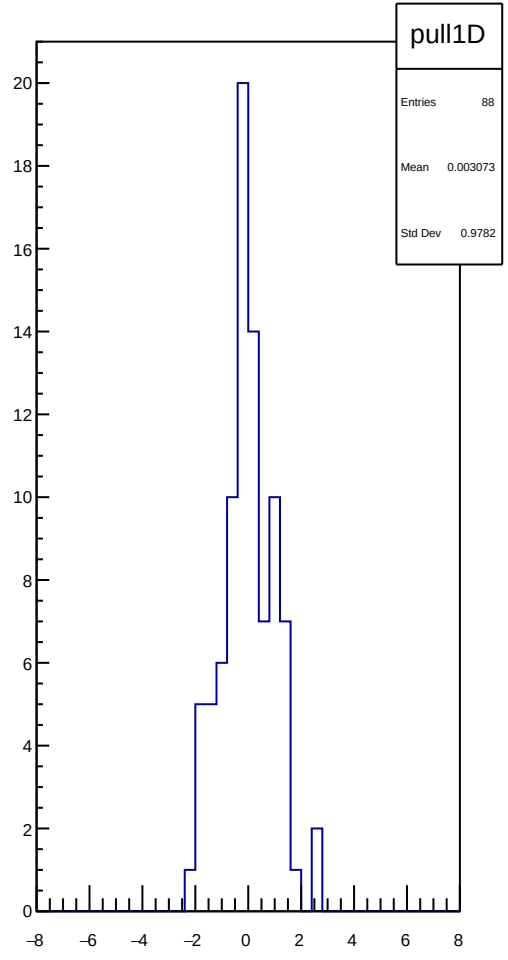

diff_cav4cX_rms vs run
×10^3
620
600
580
560
540
520
500
480
460
440
420
χ² / ndf 1.121e+04 / 87
p0 5.487e+05 ± 426.5

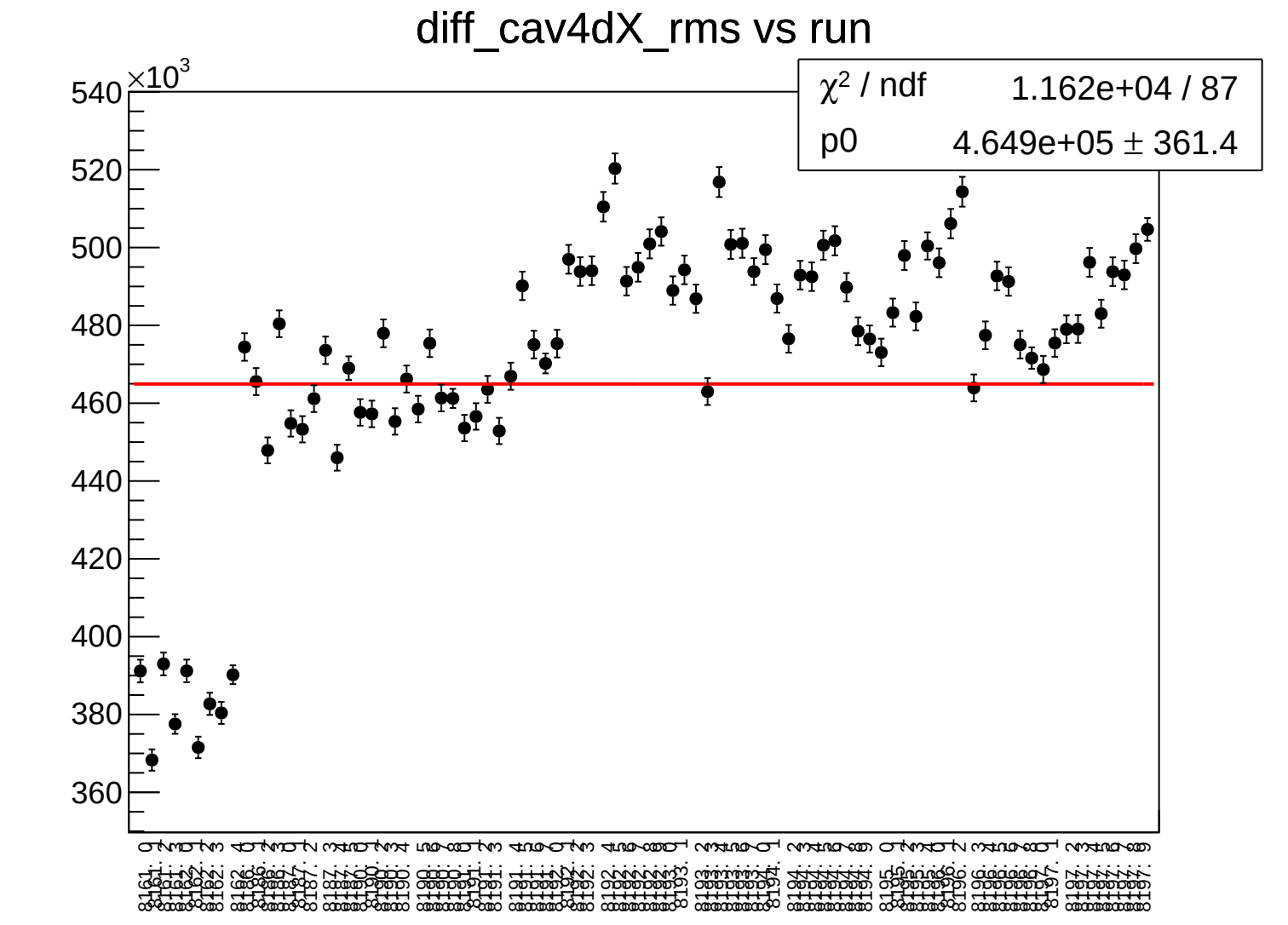

diff_cav4cY_mean vs run
χ² / ndf 92.83 / 87
p0 653 ± 220.5
pull
Entries 88
Mean 101.3
Std Dev 0

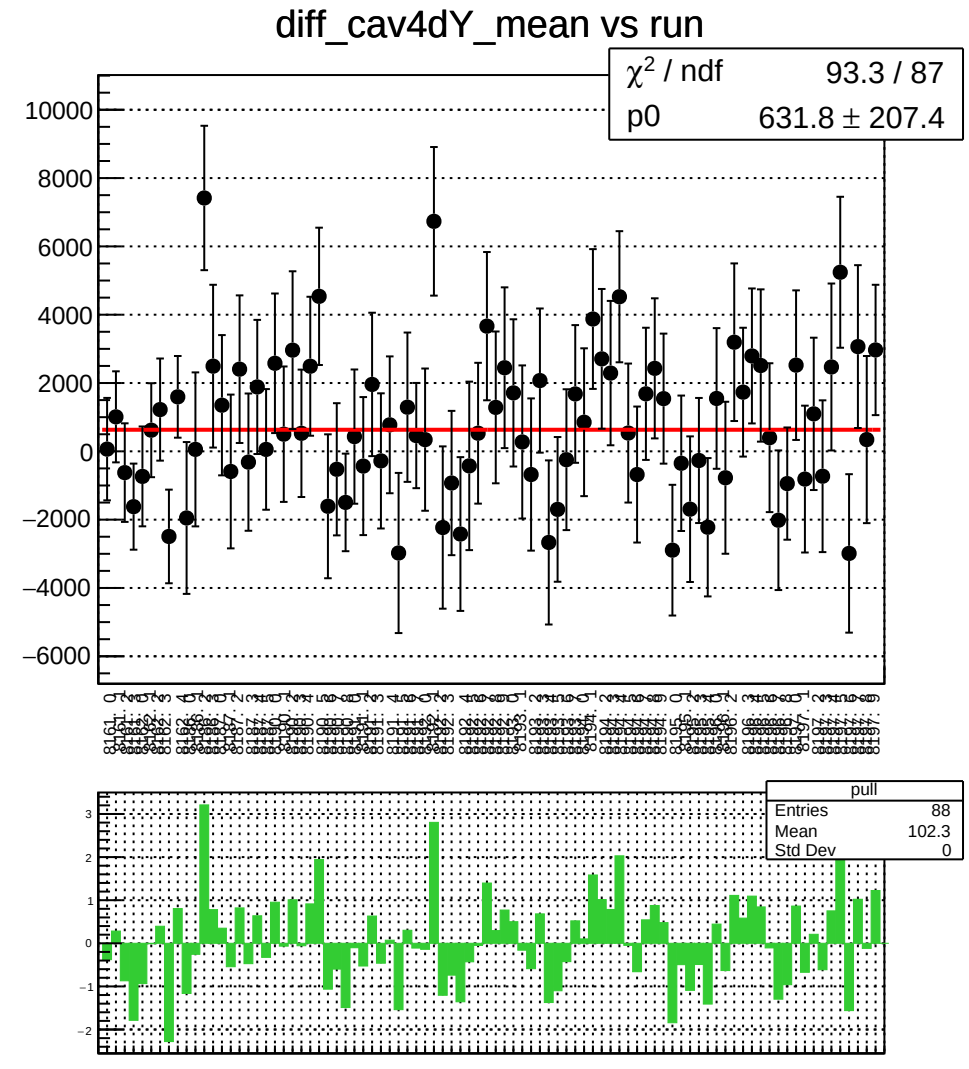

pull1D
Entries 88
Mean 0.03337
Std Dev 1.027

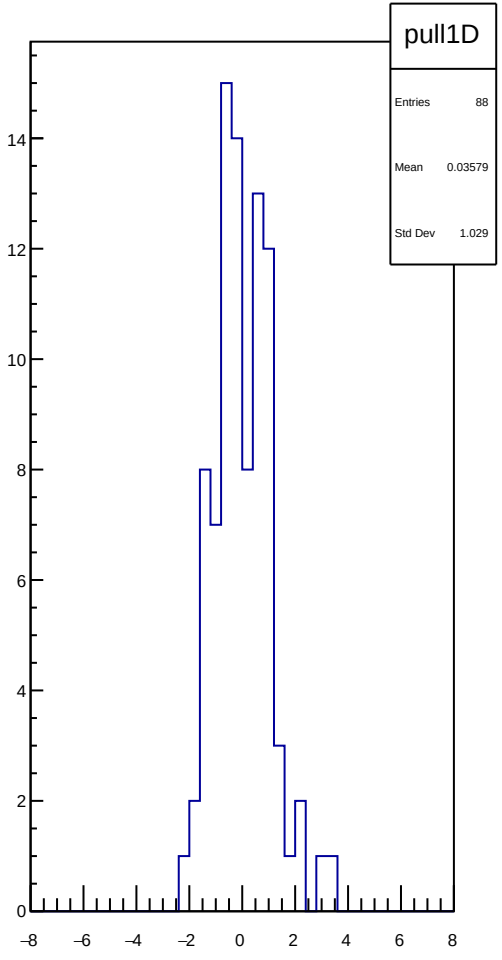

diff_cav4cY_rms vs run
×10^3
260
240
220
200
180
160
140
χ² / ndf 3.812e+04 / 87
p0 1.989e+05 ± 155.9

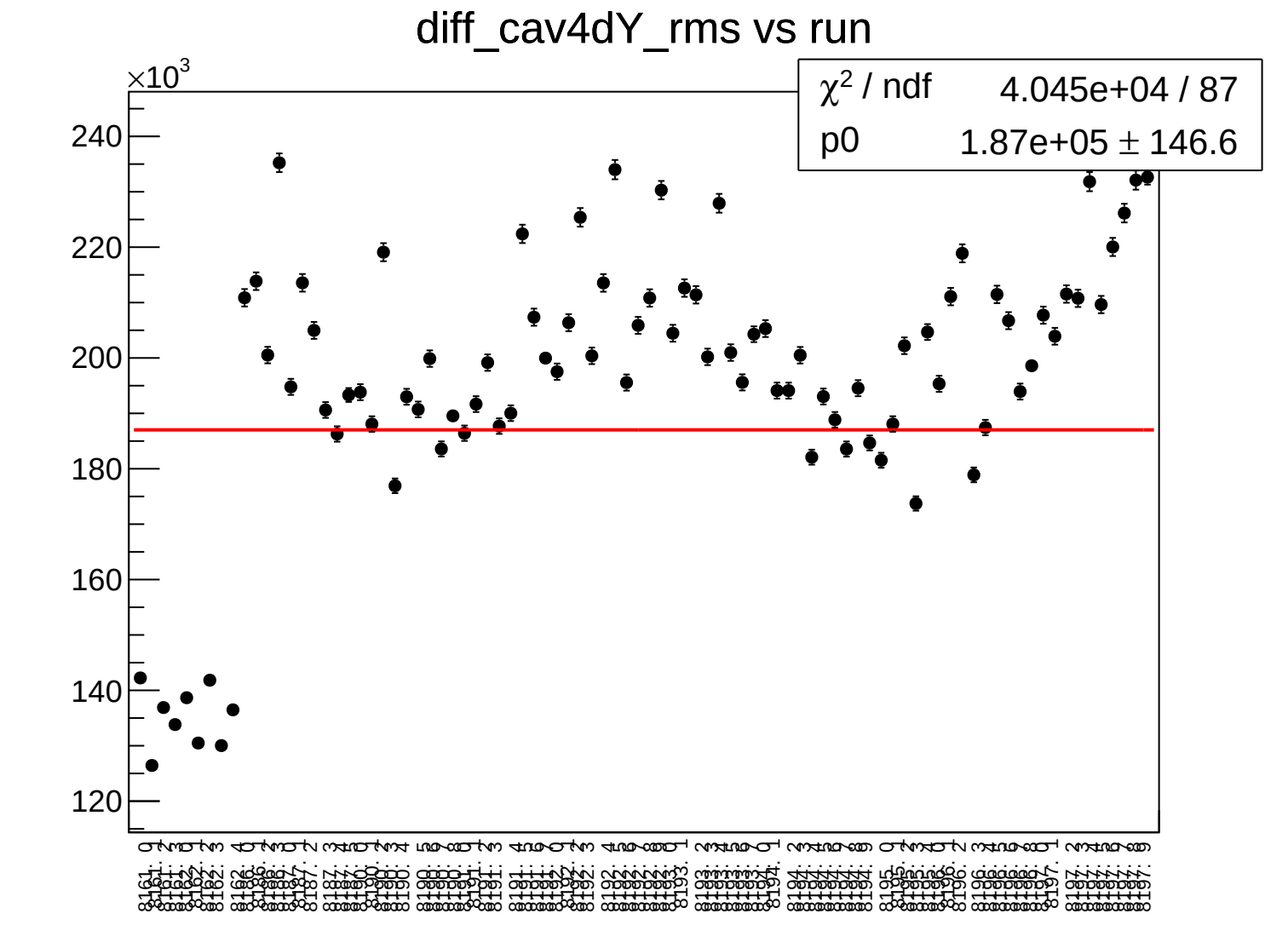

diff_cav4dX_mean vs run
χ² / ndf 84.2 / 87
p0 −1543 ± 511.1
pull
Entries 88
Mean 1319
Std Dev 0

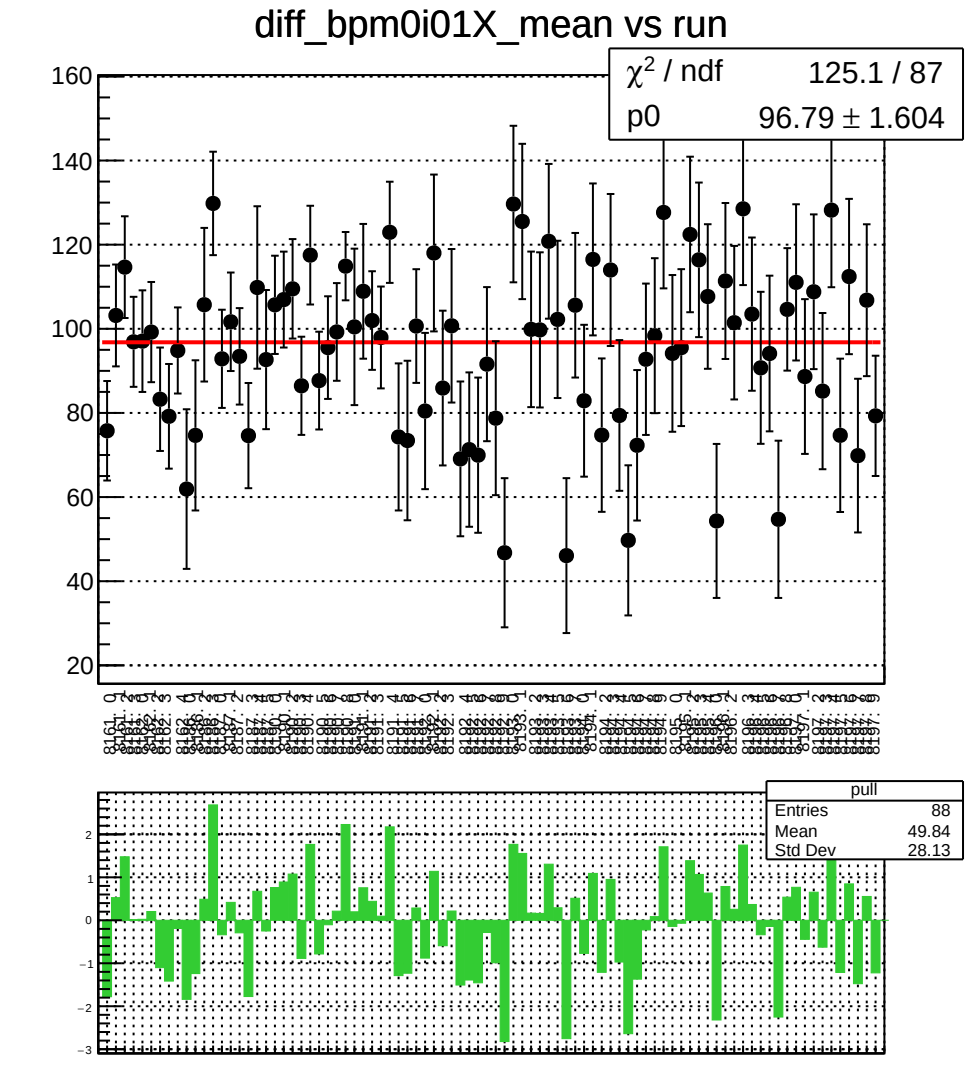

pull1D
Entries 88
Mean 0.003073
Std Dev 0.9782

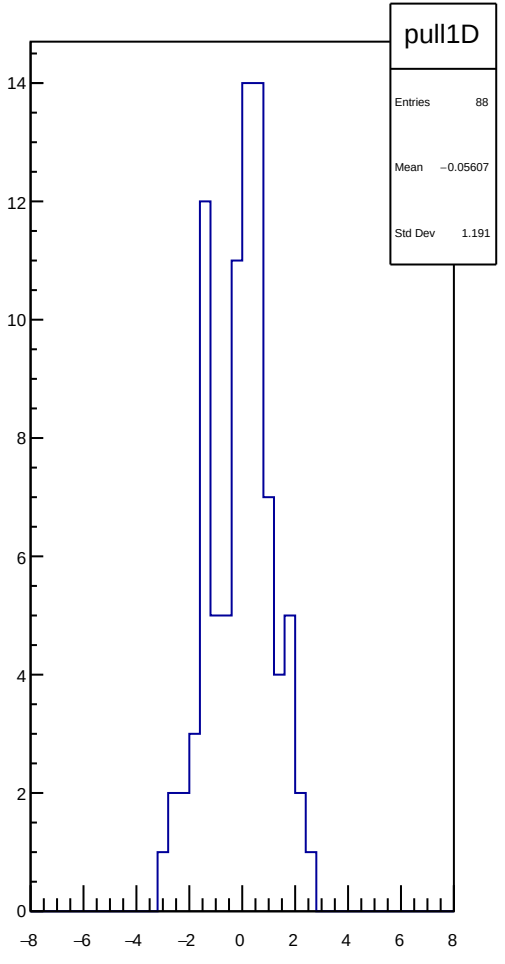

diff_cav4dX_rms vs run
×10^3
540
520
500
480
460
440
420
400
380
360
χ² / ndf 1.162e+04 / 87
p0 4.649e+05 ± 361.4

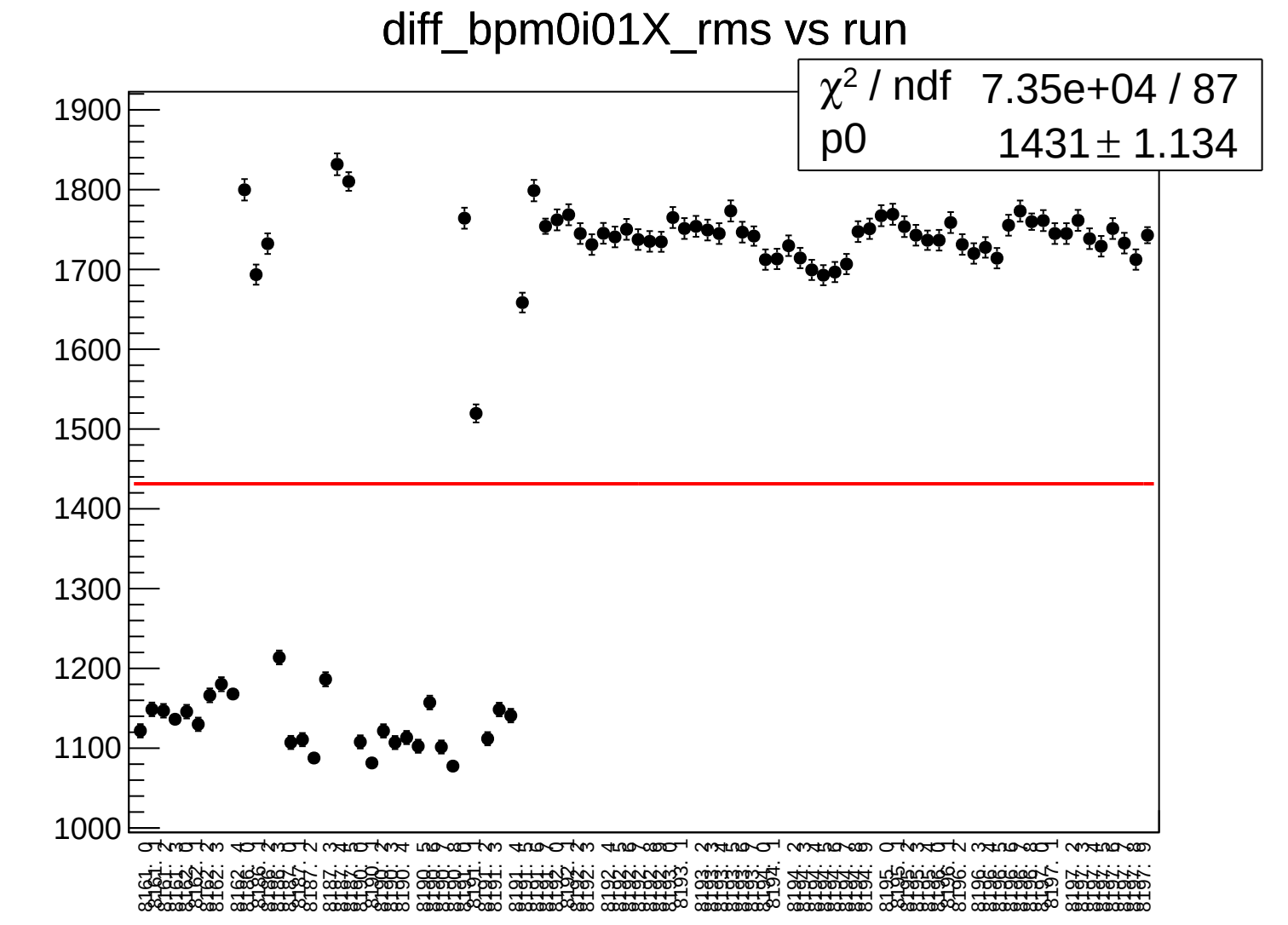

diff_cav4dY_mean vs run
χ² / ndf 93.3 / 87
p0 631.8 ± 207.4
pull
Entries 88
Mean 102.3
Std Dev 0

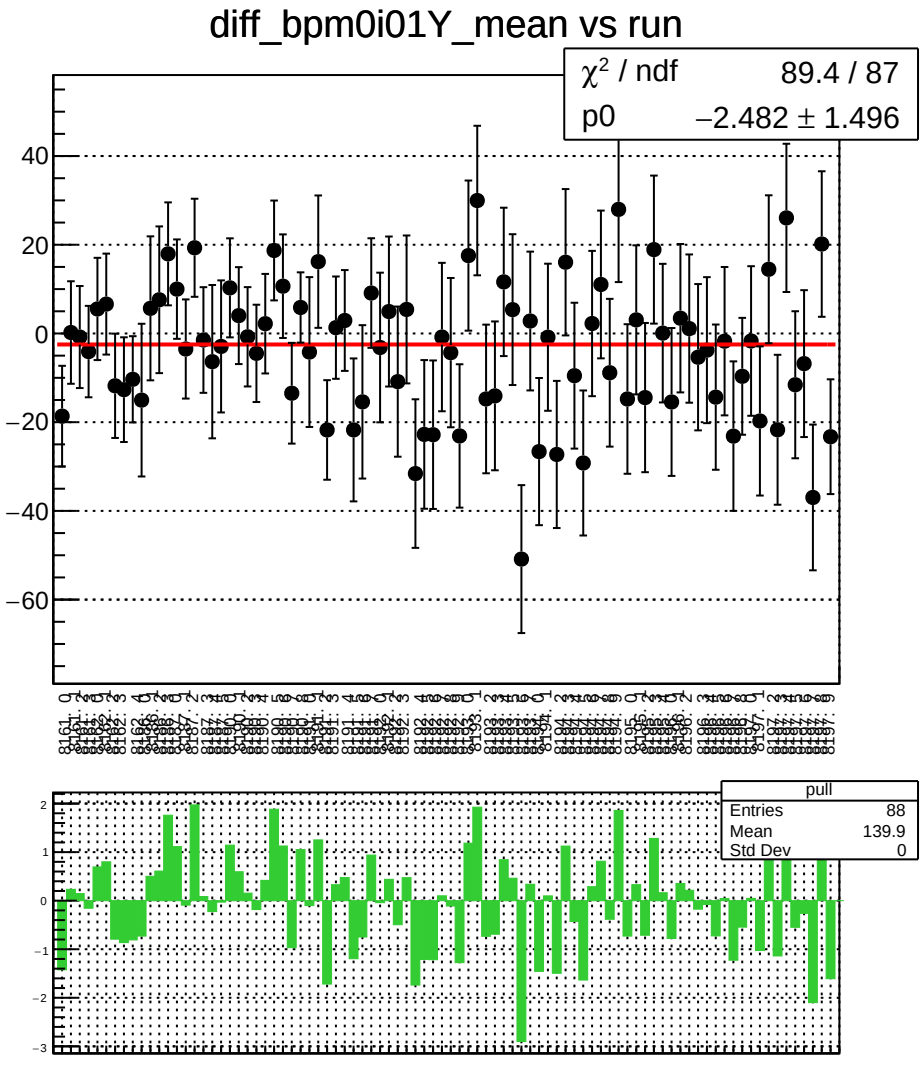

pull1D
Entries 88
Mean 0.03579
Std Dev 1.029

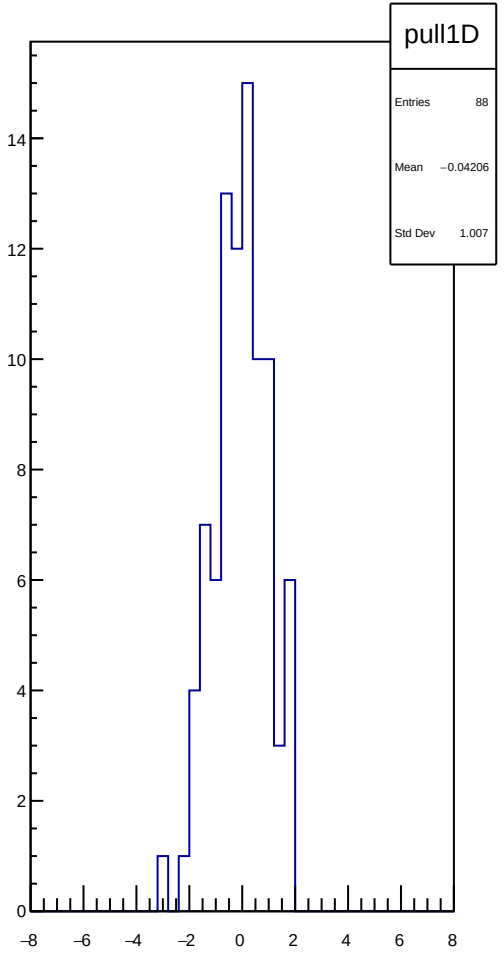

diff_cav4dY_rms vs run
×10^3
χ^2 / ndf 4.045e+04 / 87
p0 1.87e+05 ± 146.6
240
220
200
180
160
140
120

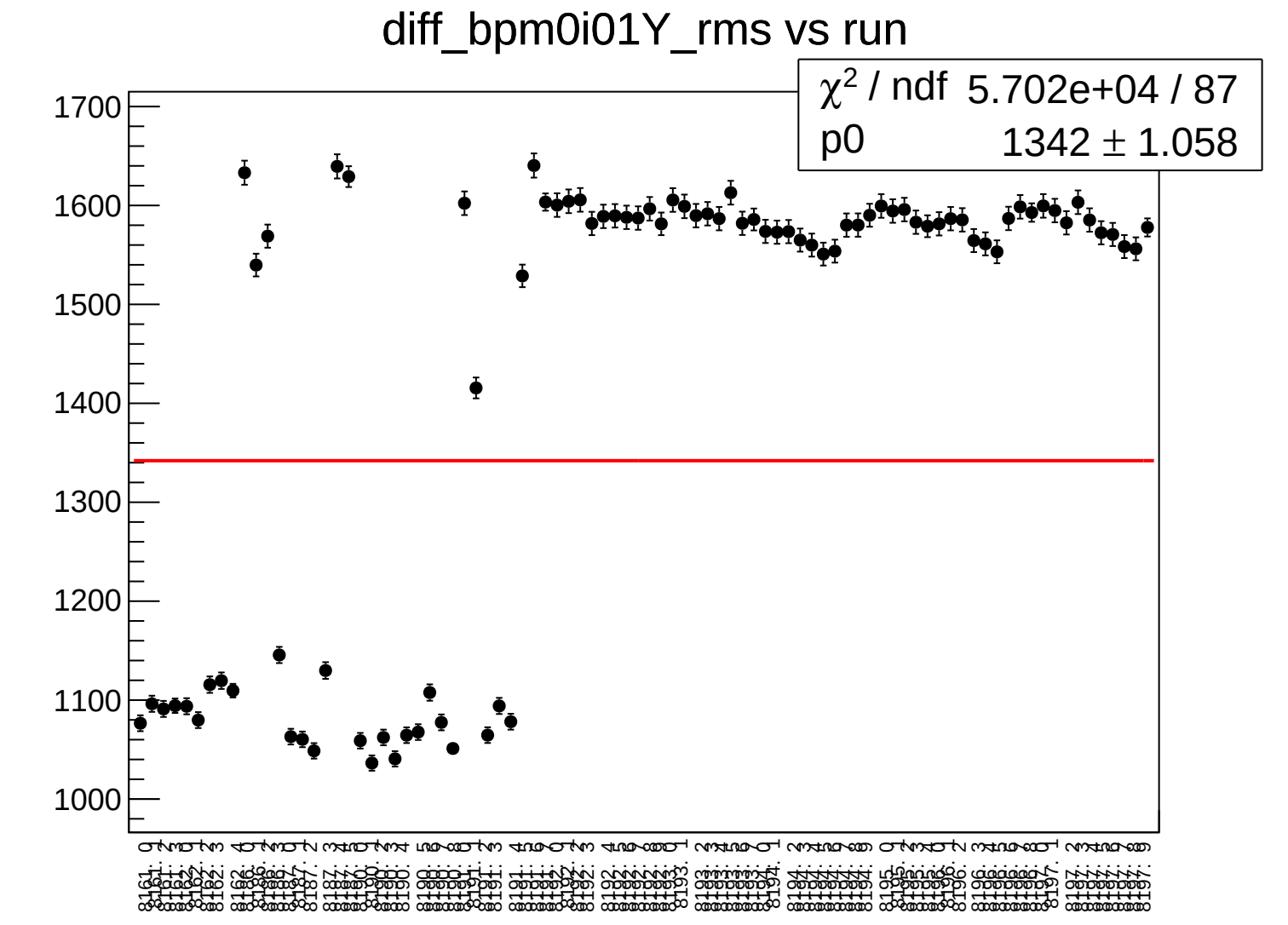

diff_bpm0i01X_mean vs run
χ² / ndf 125.1 / 87
p0 96.79 ± 1.604
pull
Entries 88
Mean 49.84
Std Dev 28.13

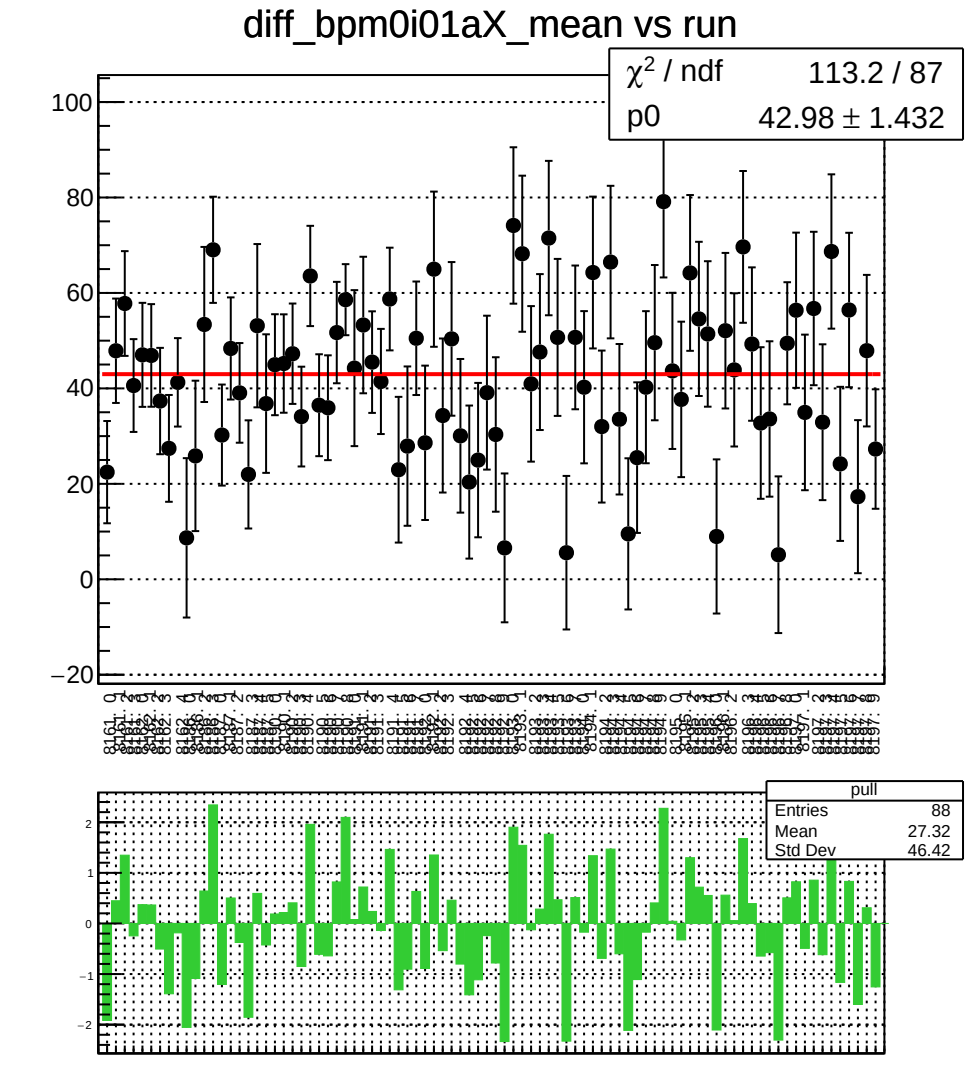

pull1D
Entries 88
Mean −0.05607
Std Dev 1.191

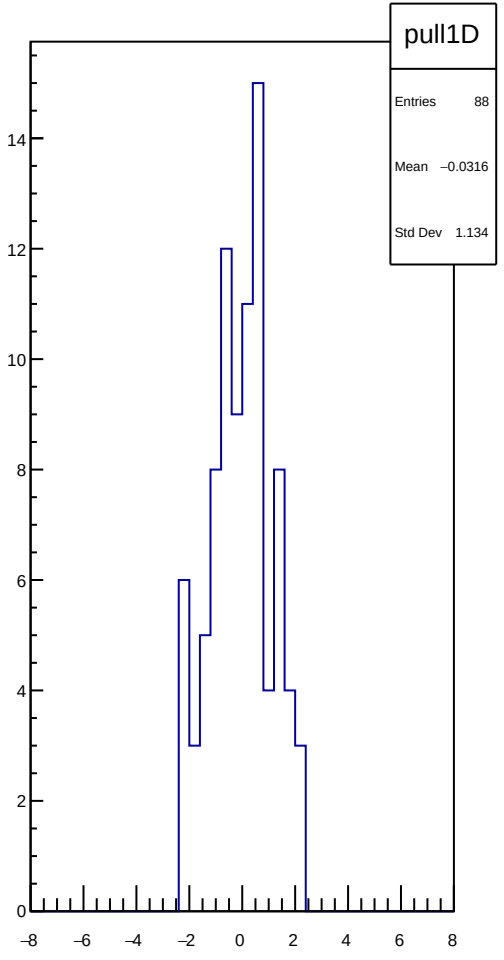

diff_bpm0i01X_rms vs run
χ^2 / ndf 7.35e+04 / 87
p0 1431 ± 1.134
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

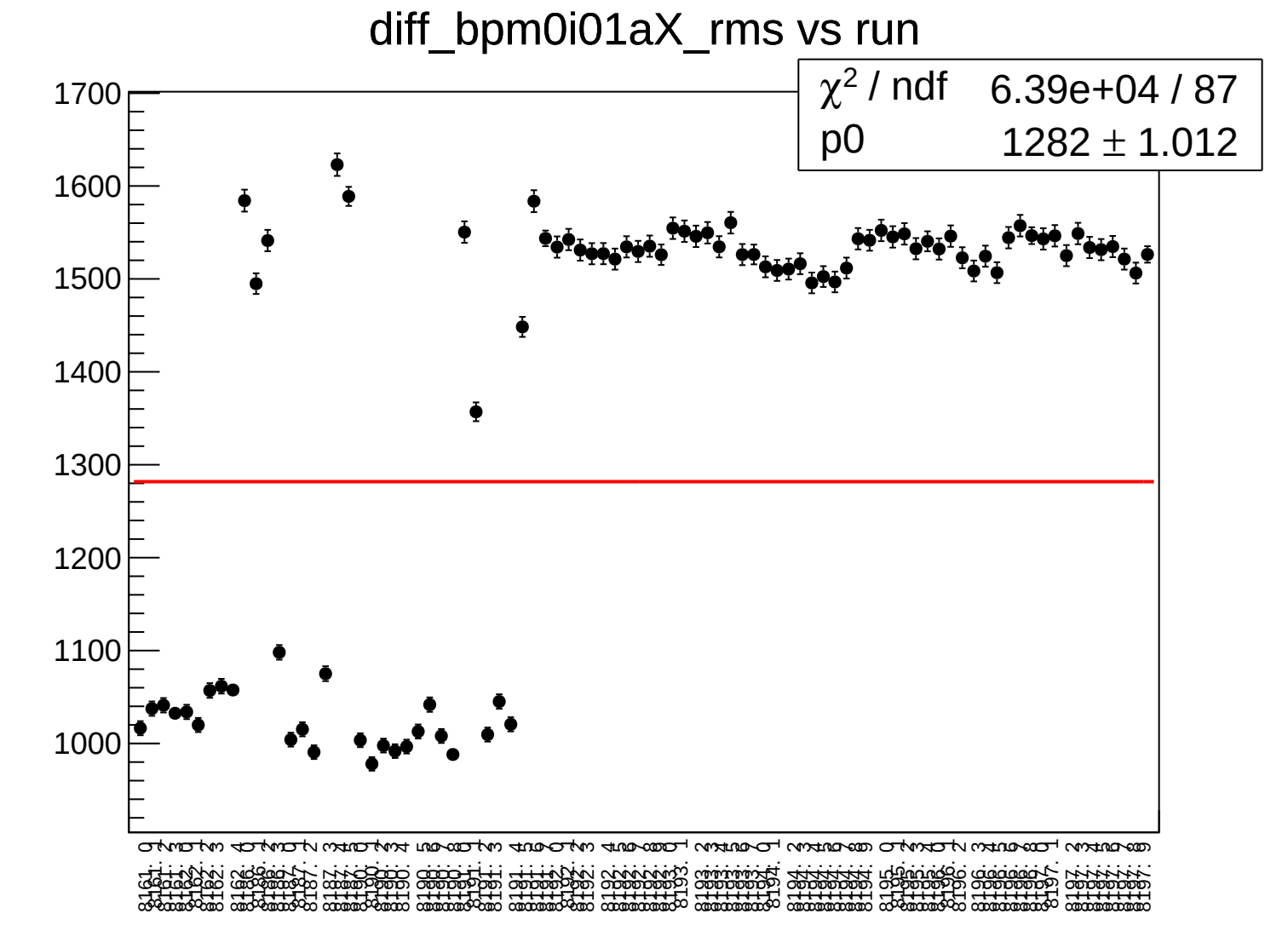

diff_bpm0i01Y_mean vs run
χ² / ndf 89.4 / 87
p0 −2.482 ± 1.496
pull
Entries 88
Mean 139.9
Std Dev 0

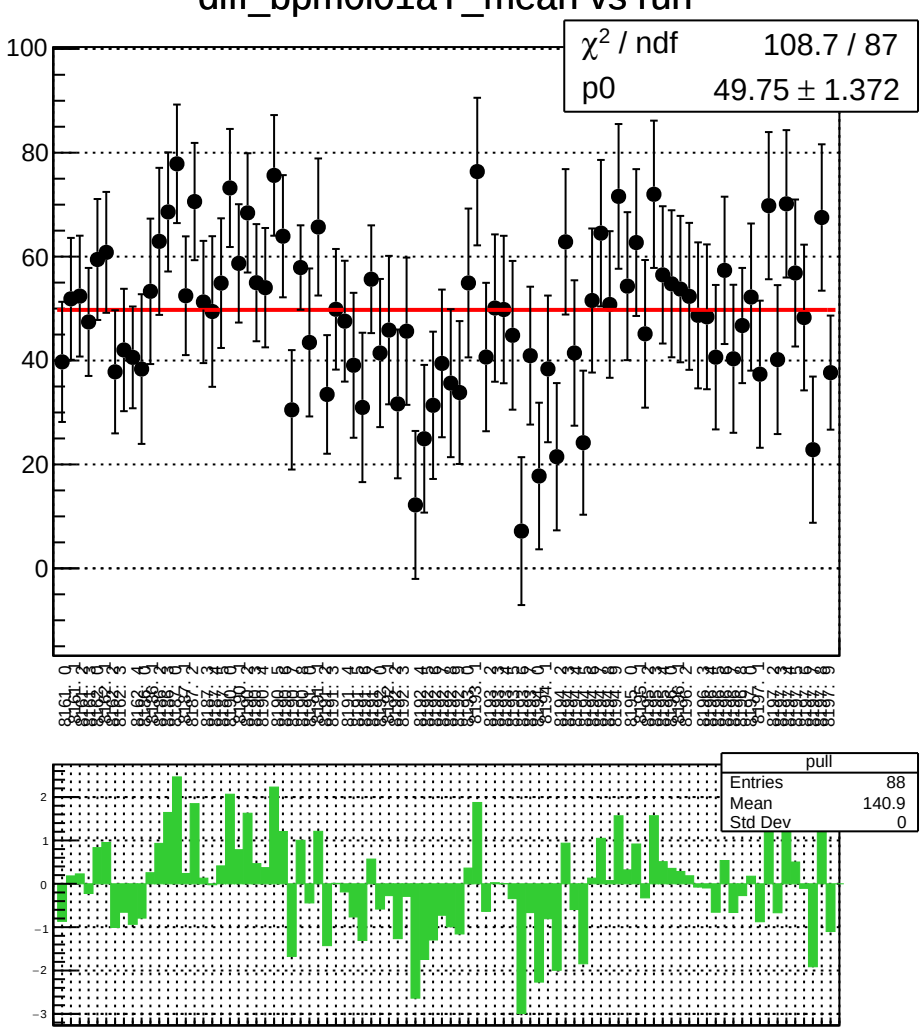

pull1D
Entries 88
Mean −0.04206
Std Dev 1.007

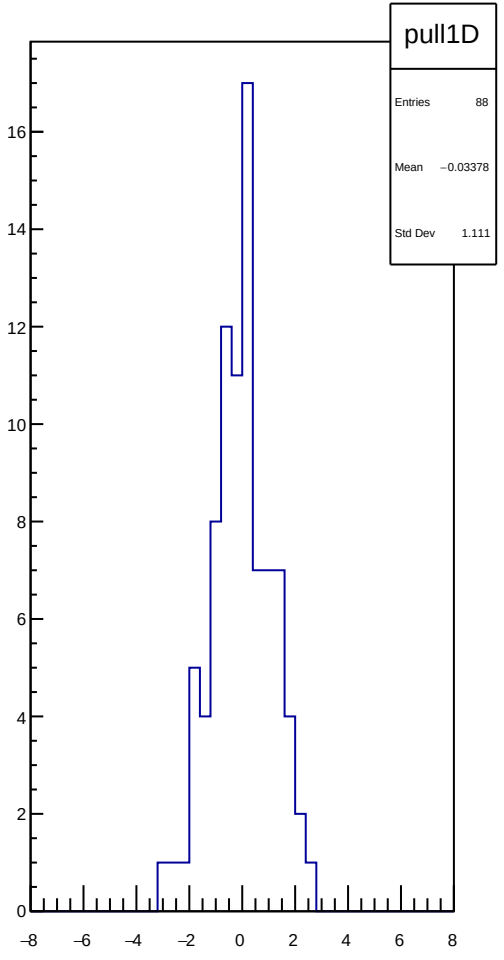

diff_bpm0i01Y_rms vs run
χ² / ndf 5.702e+04 / 87
p0 1342 ± 1.058
1700
1600
1500
1400
1300
1200
1100
1000

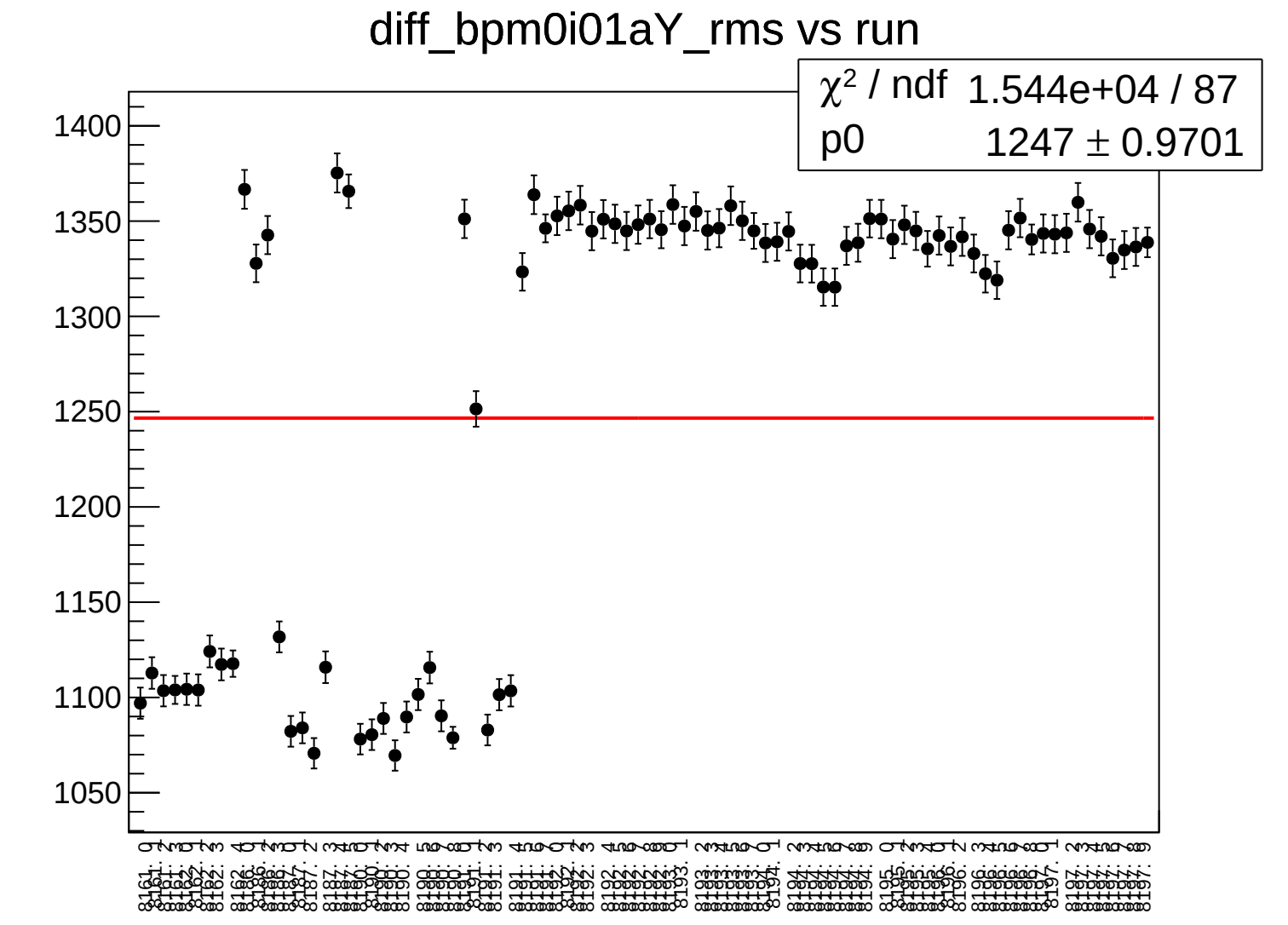

diff_bpm0i01aX_mean vs run
χ² / ndf 113.2 / 87
p0 42.98 ± 1.432
pull
Entries 88
Mean 27.32
Std Dev 46.42

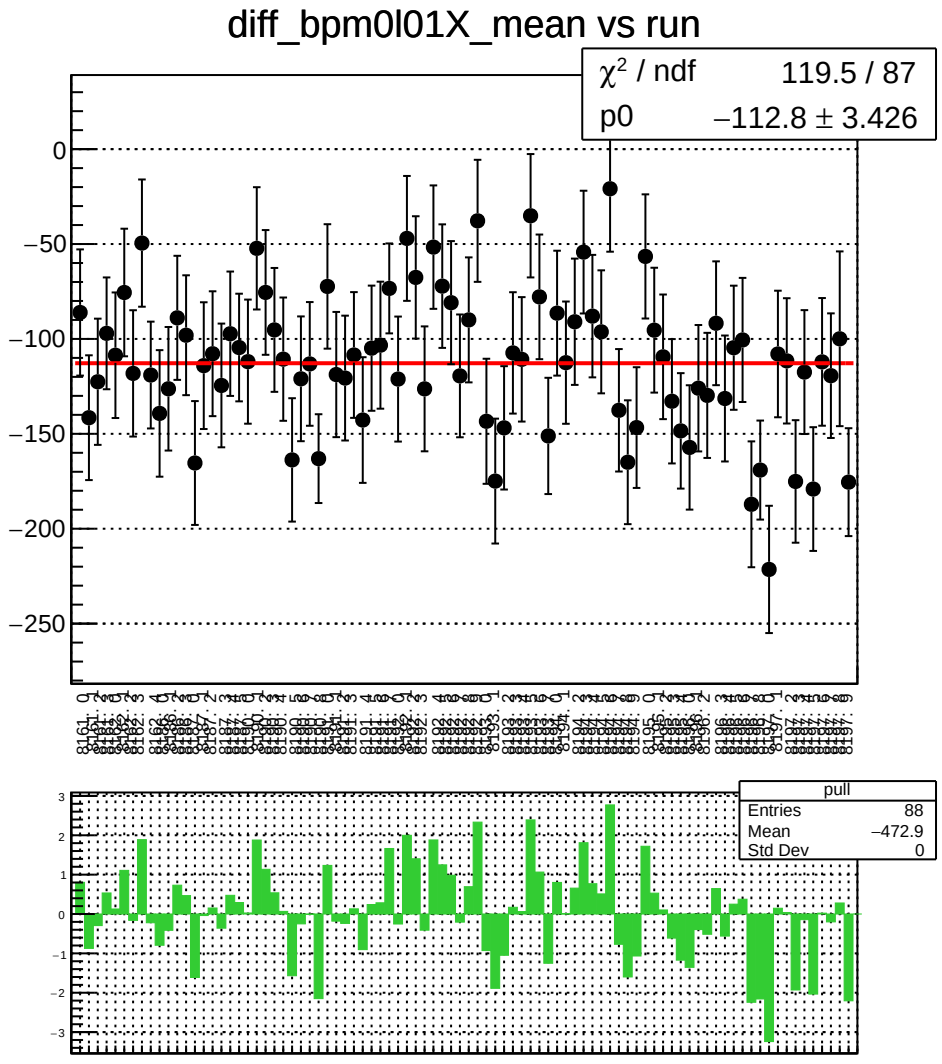

pull1D
Entries 88
Mean −0.0316
Std Dev 1.134

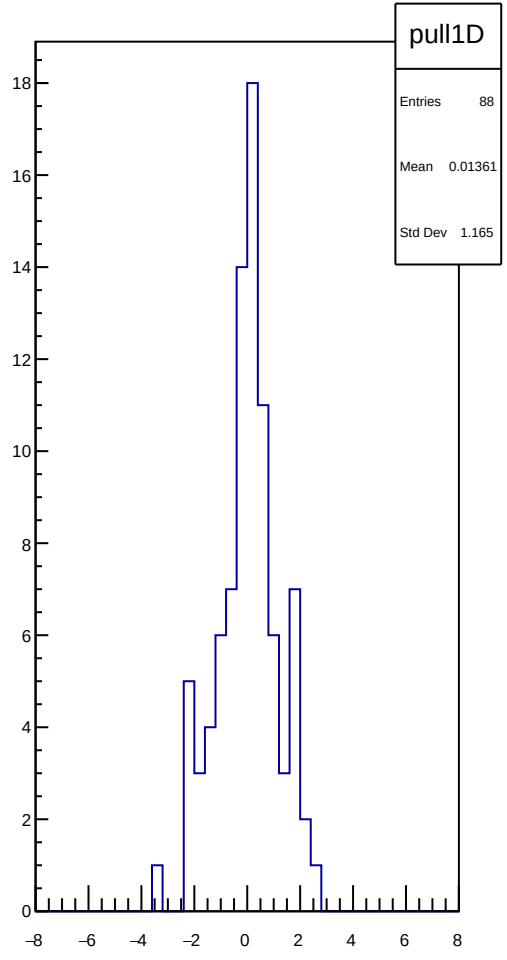

diff_bpm0i01aX_rms vs run
χ² / ndf 6.39e+04 / 87
p0 1282 ± 1.012
1700
1600
1500
1400
1300
1200
1100
1000

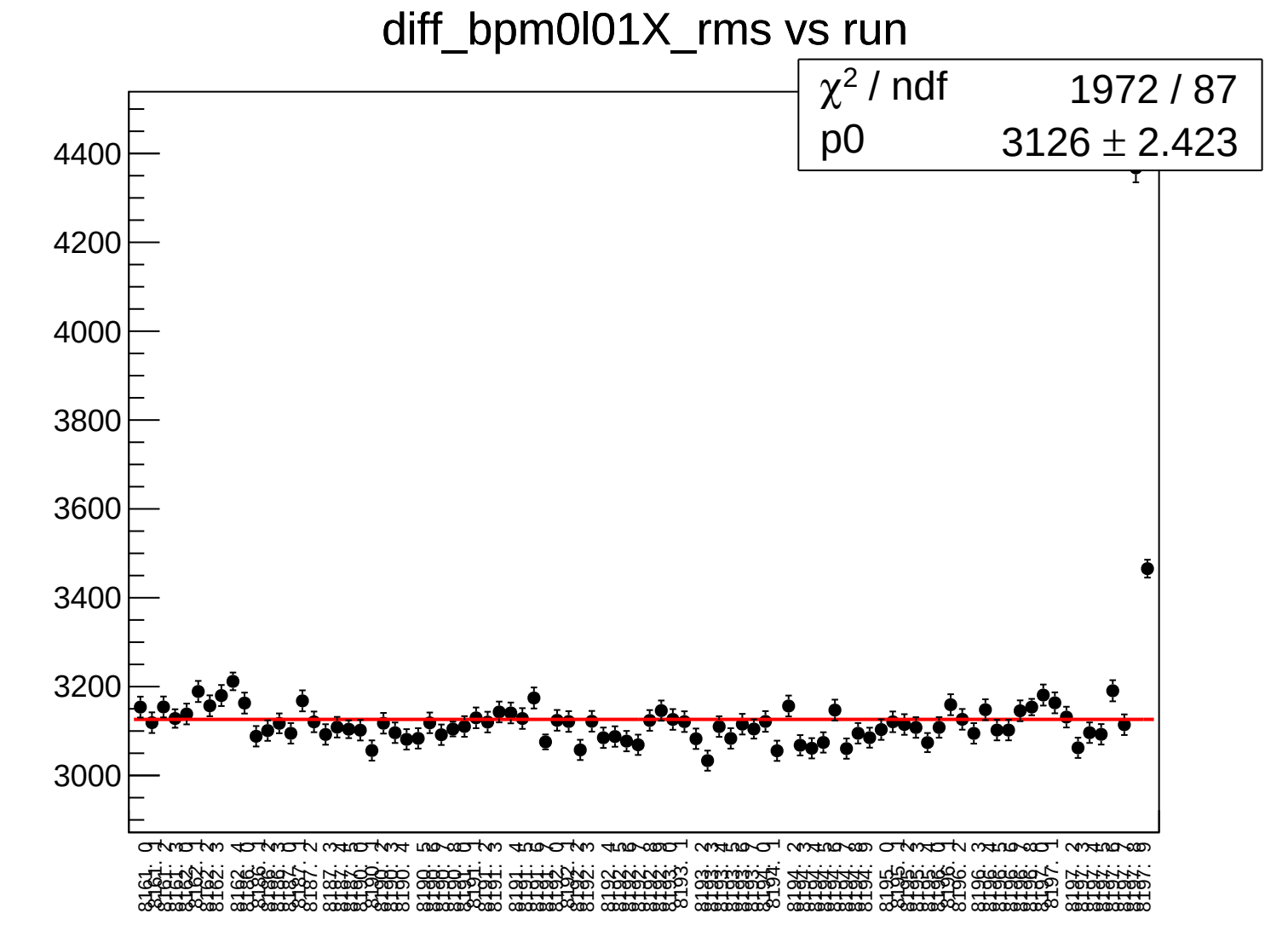

diff_bpm0i01aY_mean vs run
χ^2 / ndf 108.7 / 87
p0 49.75 ± 1.372
pull
Entries 88
Mean 140.9
Std Dev 0

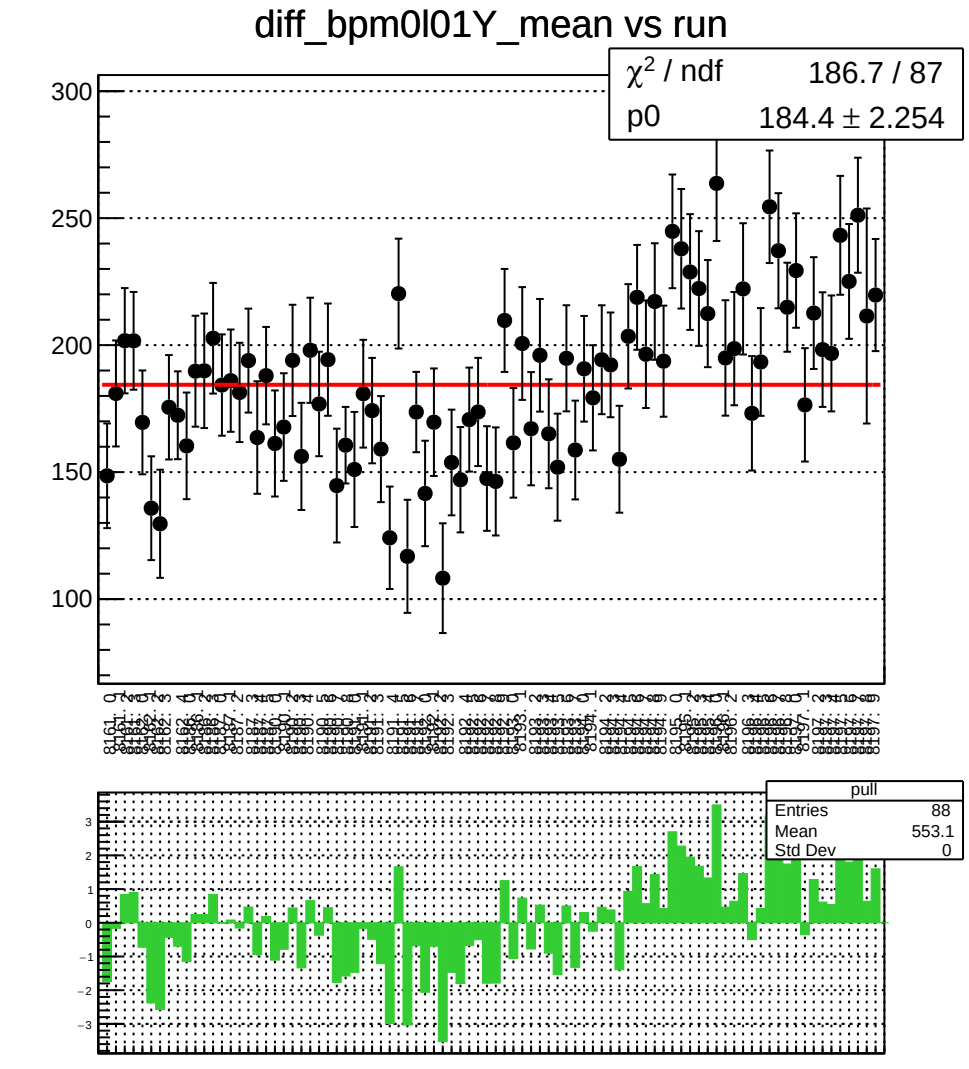

pull1D
Entries 88
Mean −0.03378
Std Dev 1.111

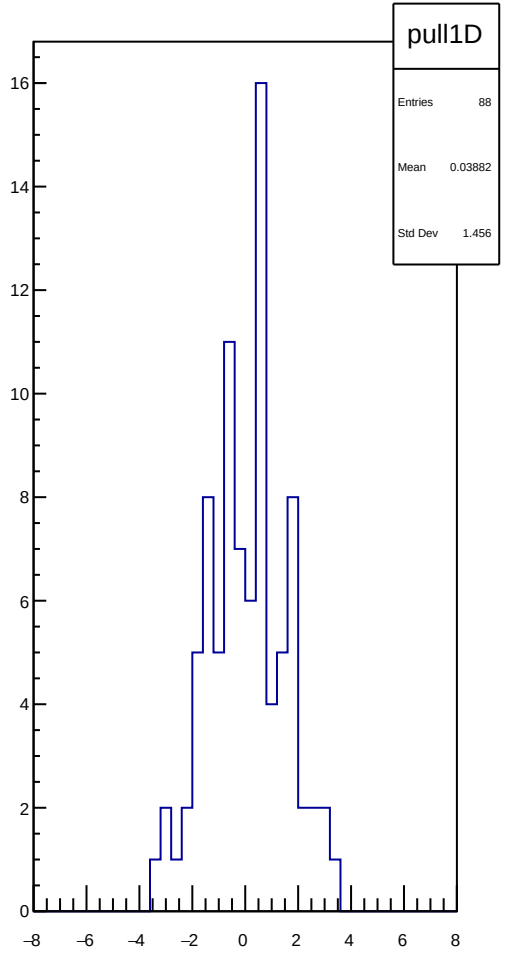

diff_bpm0i01aY_rms vs run
χ² / ndf 1.544e+04 / 87
p0 1247 ± 0.9701
1400
1350
1300
1250
1200
1150
1100
1050

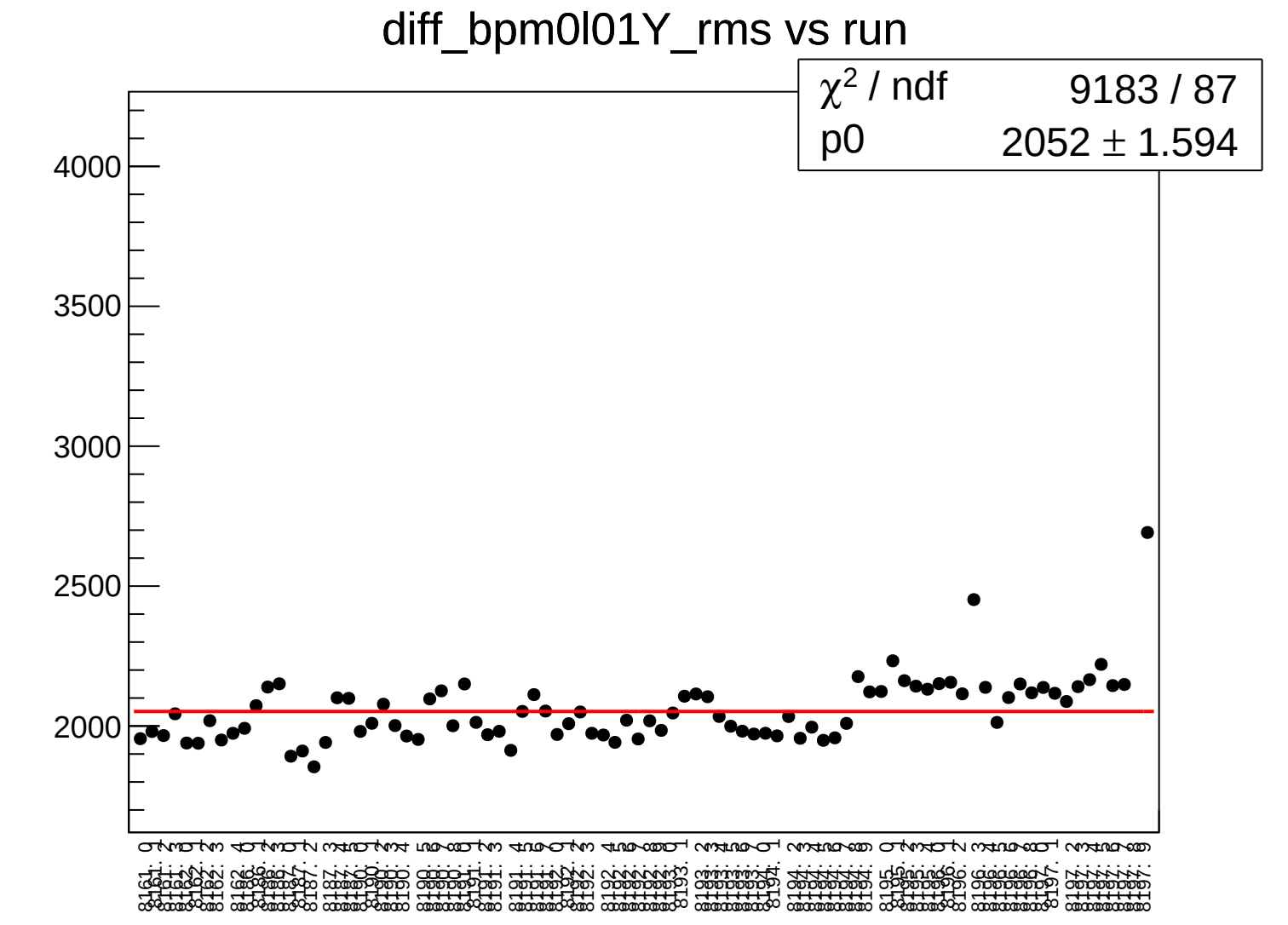

diff_bpm0l01X_mean vs run
χ² / ndf 119.5 / 87
p0 −112.8 ± 3.426
0
−50
−100
−150
−200
−250
pull
Entries 88
Mean −472.9
Std Dev 0
3
2
1
0
−1
−2
−3

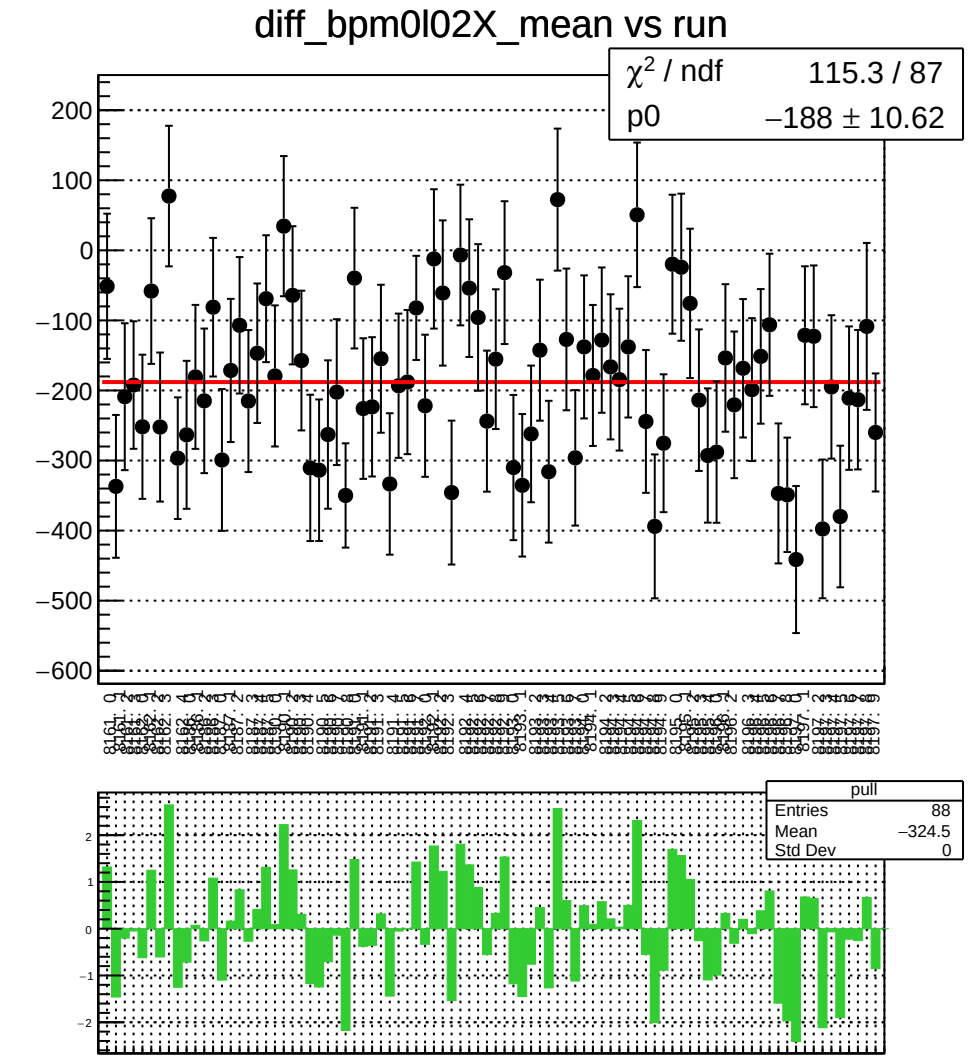

pull1D
Entries 88
Mean 0.01361
Std Dev 1.165
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

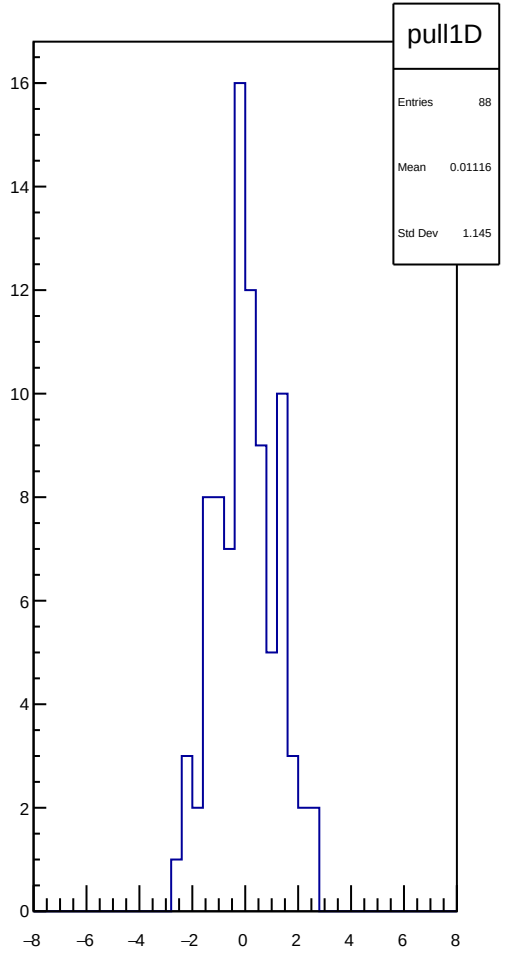

diff_bpm0l01X_rms vs run
χ² / ndf 1972 / 87
p0 3126 ± 2.423
4400
4200
4000
3800
3600
3400
3200
3000

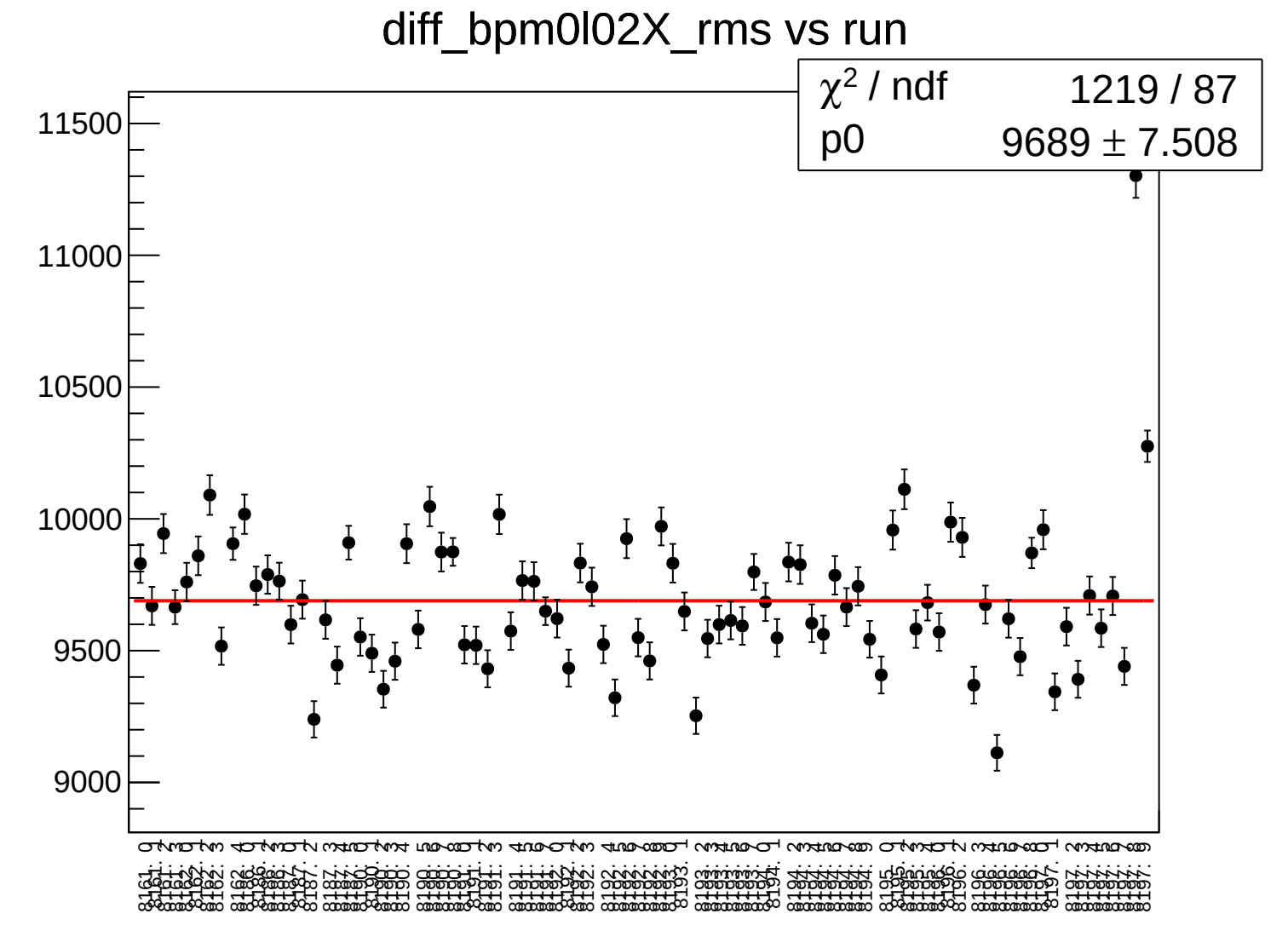

diff_bpm0l01Y_mean vs run
χ^2 / ndf 186.7 / 87
p0 184.4 ± 2.254
300
250
200
150
100
pull
Entries 88
Mean 553.1
Std Dev 0
3
2
1
0
−1
−2
−3

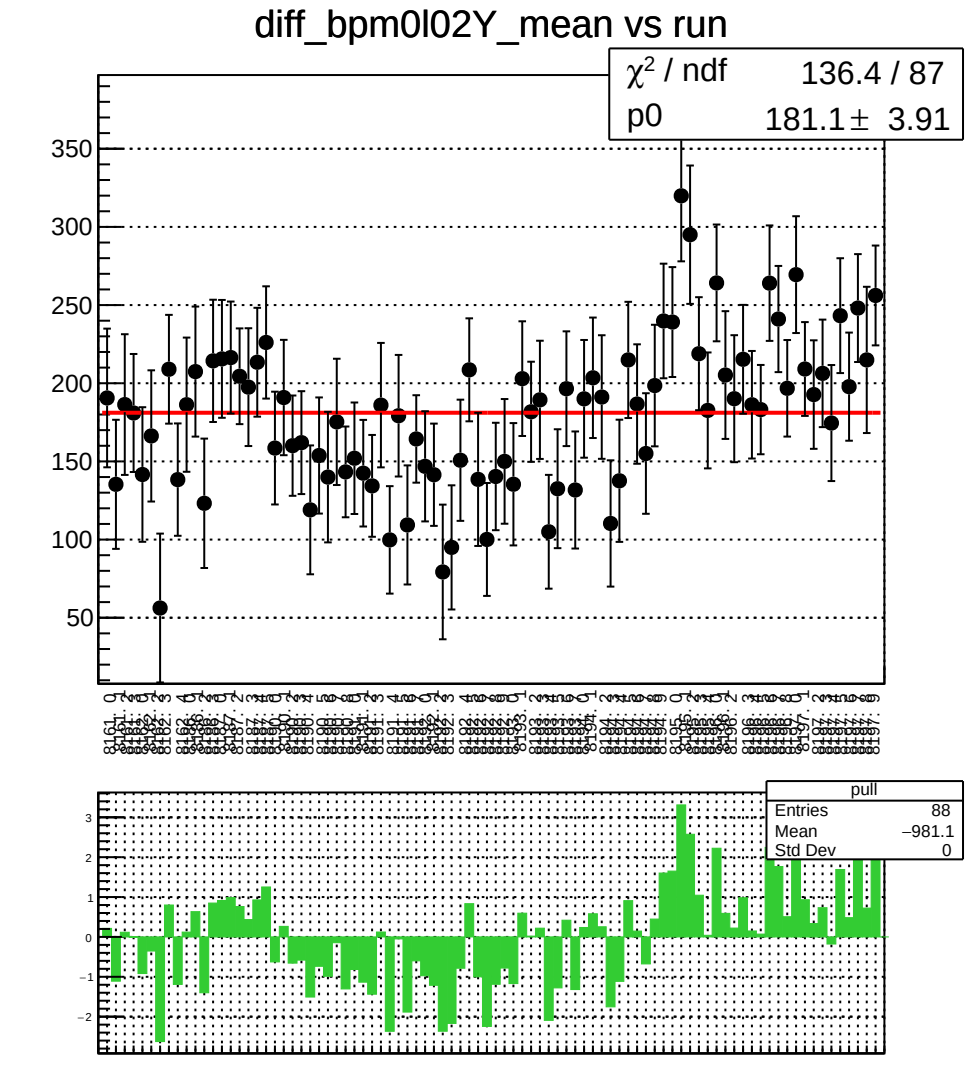

pull1D
Entries 88
Mean 0.03882
Std Dev 1.456
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

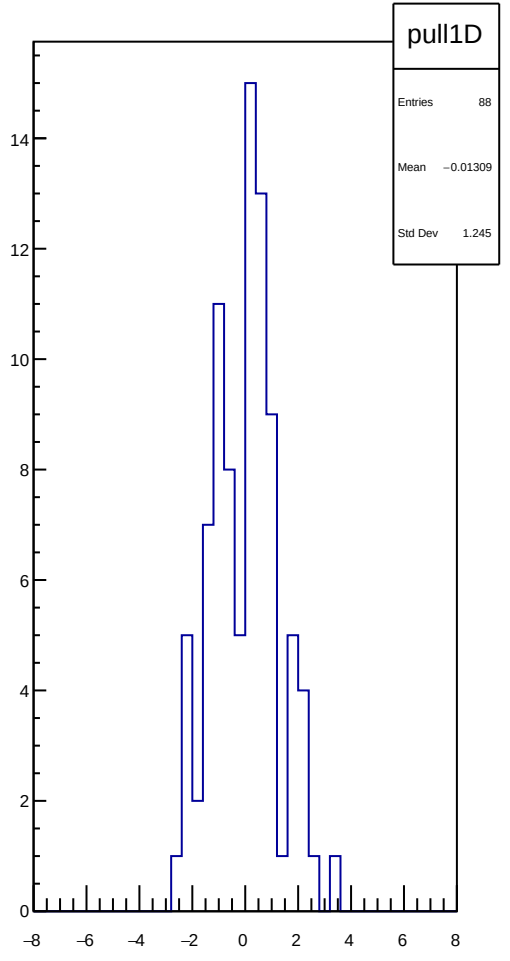

diff_bpm0l01Y_rms vs run
χ² / ndf 9183 / 87
p0 2052 ± 1.594
4000
3500
3000
2500
2000

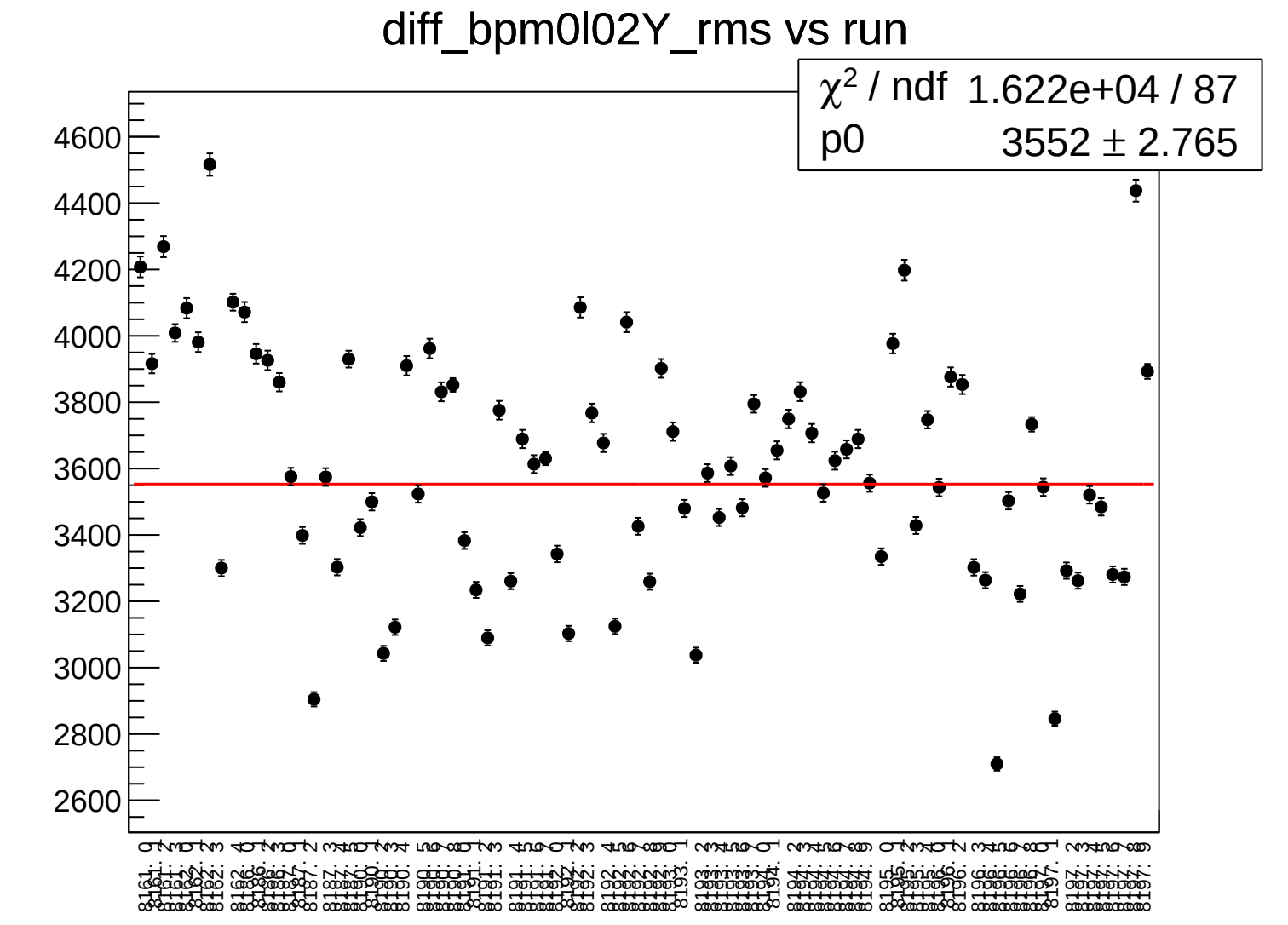

diff_bpm0l02X_mean vs run
χ² / ndf 115.3 / 87
p0 −188 ± 10.62
pull
Entries 88
Mean −324.5
Std Dev 0

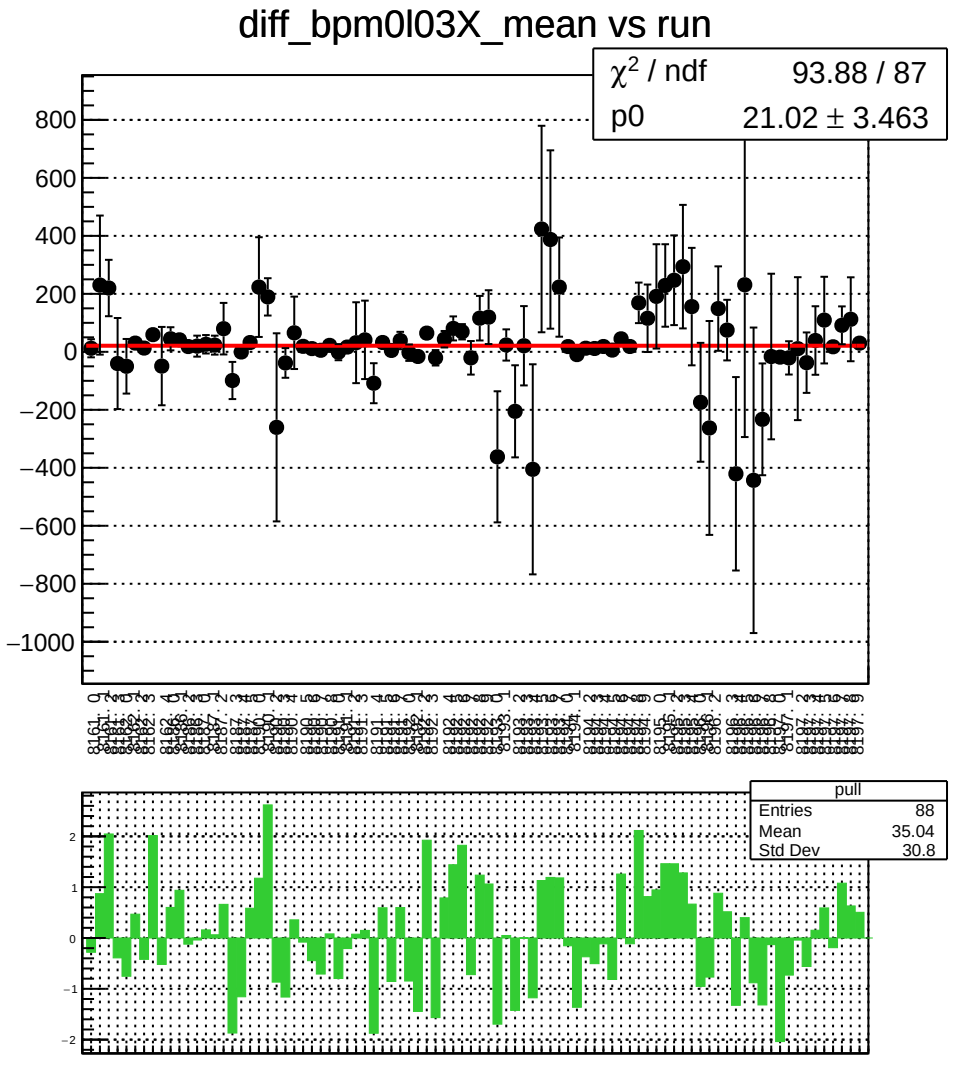

pull1D
Entries 88
Mean 0.01116
Std Dev 1.145

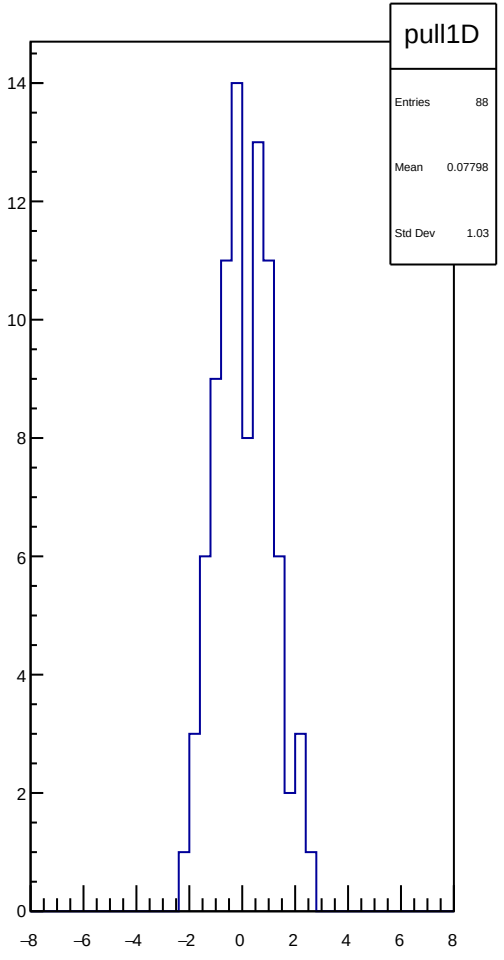

diff_bpm0l02X_rms vs run
χ² / ndf 1219 / 87
p0 9689 ± 7.508
11500
11000
10500
10000
9500
9000

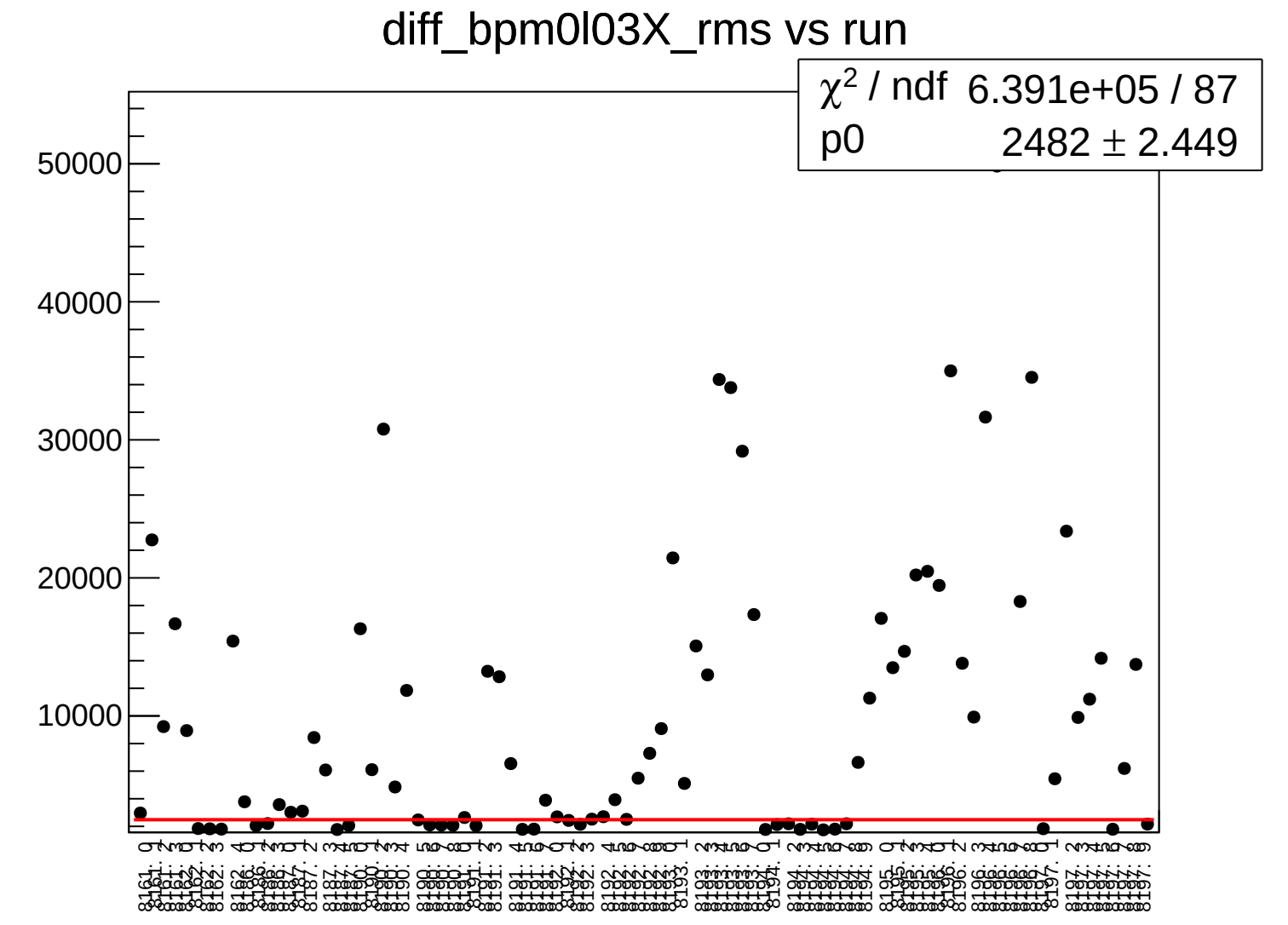

diff_bpm0l02Y_mean vs run
χ² / ndf 136.4 / 87
p0 181.1 ± 3.91
350
300
250
200
150
100
50
pull
Entries 88
Mean −981.1
Std Dev 0
3
2
1
0
−1
−2

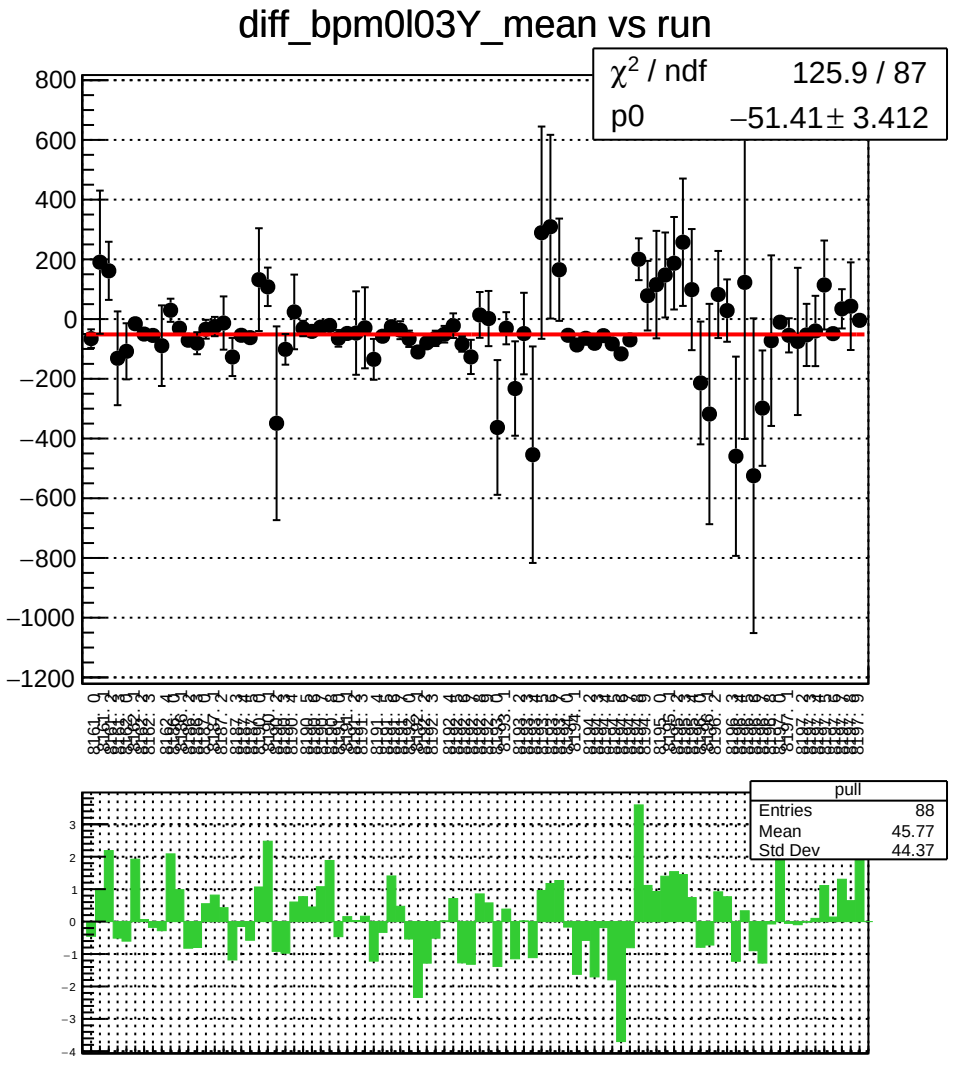

pull1D
Entries 88
Mean −0.01309
Std Dev 1.245
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

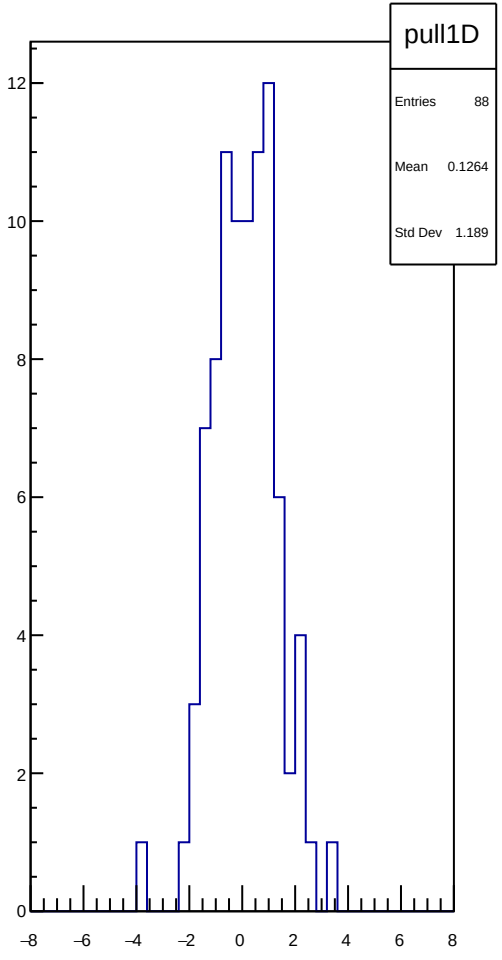

diff_bpm0l02Y_rms vs run
χ² / ndf 1.622e+04 / 87
p0 3552 ± 2.765
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

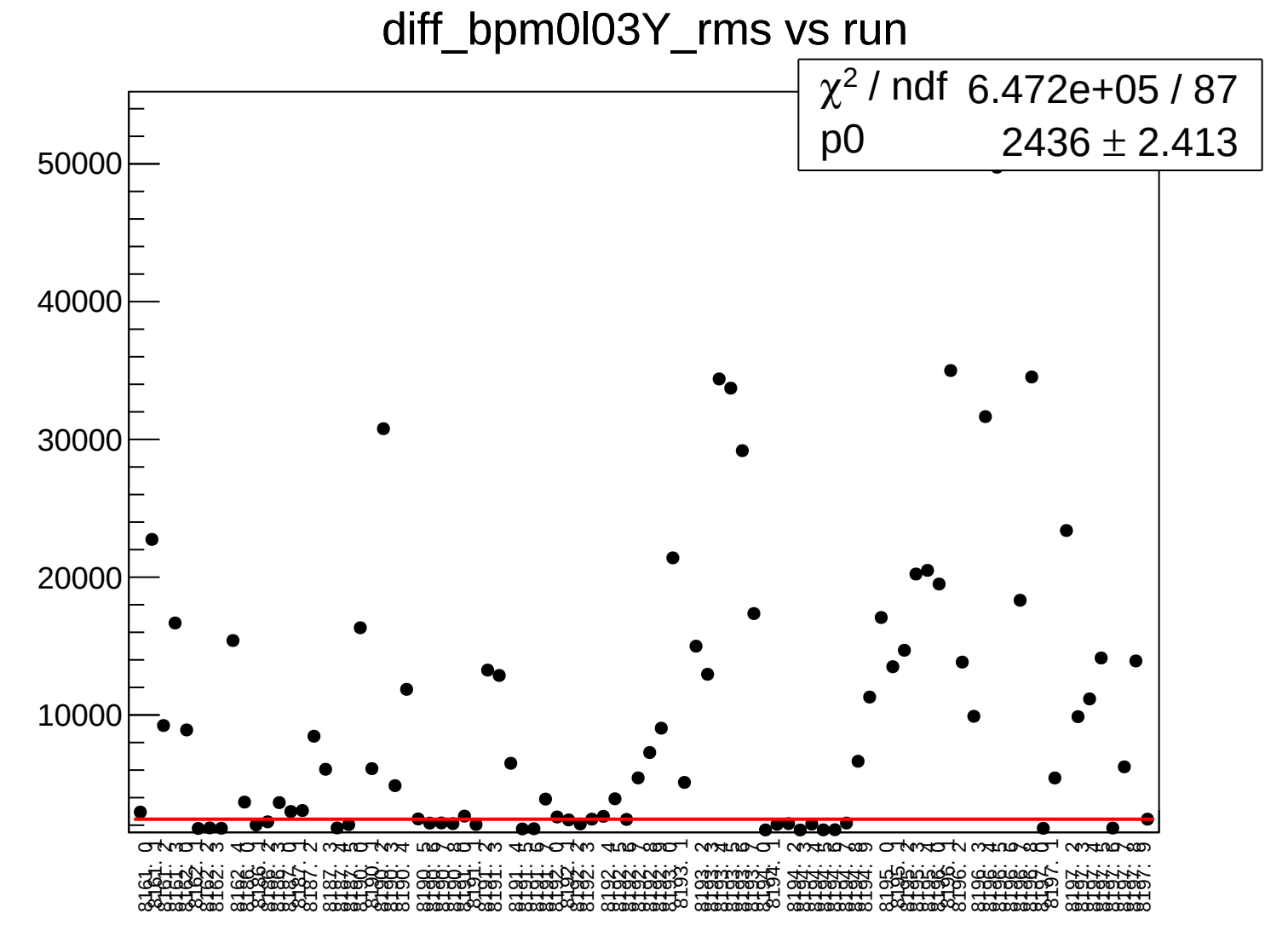

diff_bpm0l03X_mean vs run
χ^2 / ndf 93.88 / 87
p0 21.02 ± 3.463
pull
Entries 88
Mean 35.04
Std Dev 30.8

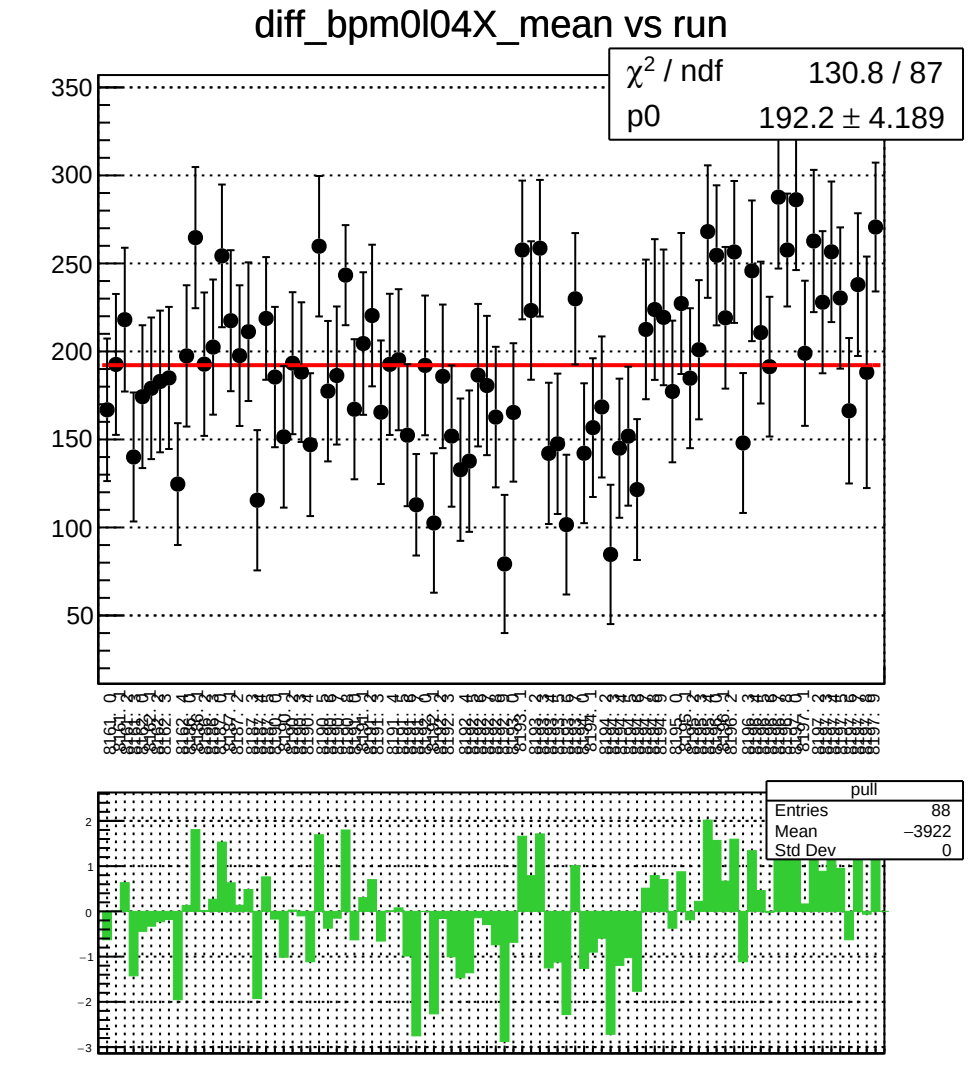

pull1D
Entries 88
Mean 0.07798
Std Dev 1.03

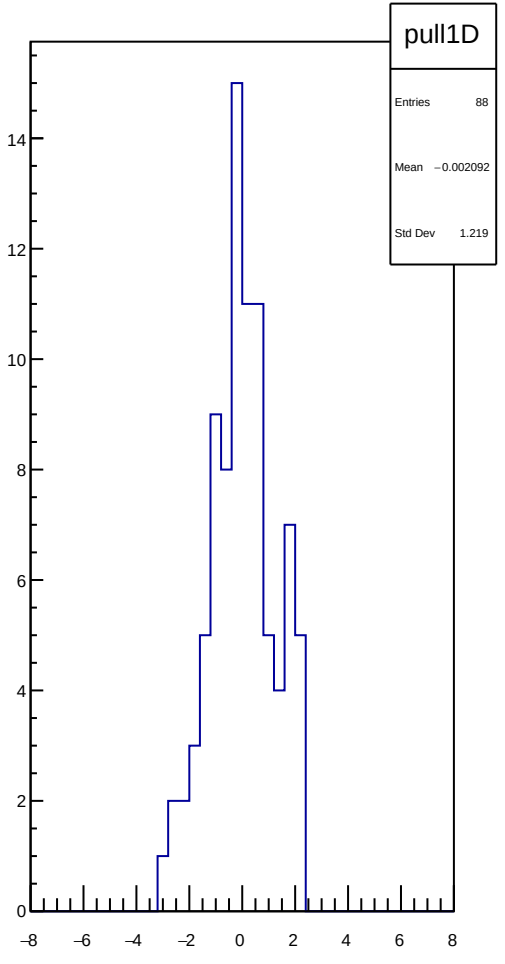

diff_bpm0l03X_rms vs run
χ² / ndf 6.391e+05 / 87
p0 2482 ± 2.449
50000
40000
30000
20000
10000

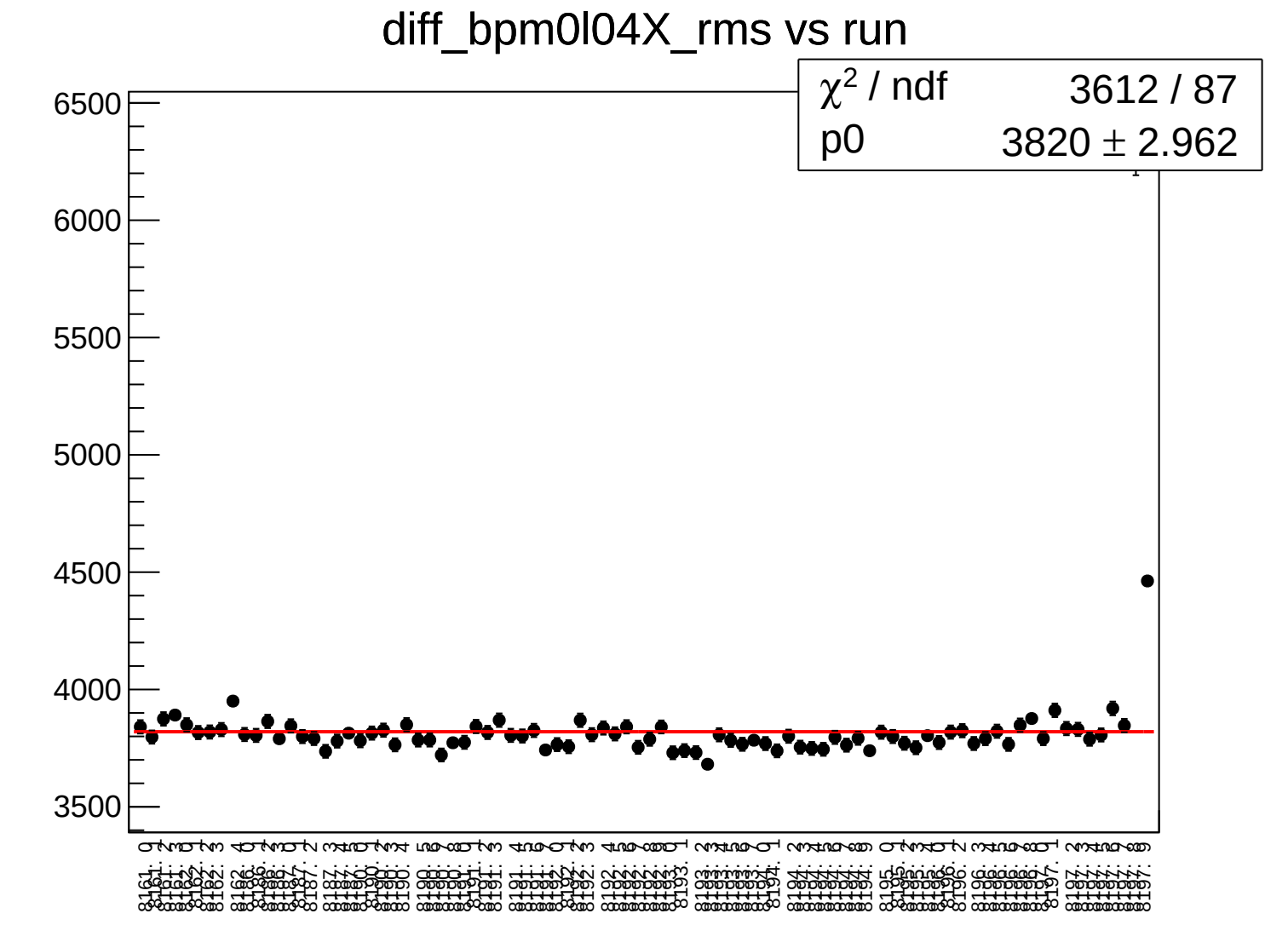

diff_bpm0l03Y_mean vs run
χ^2 / ndf 125.9 / 87
p0 −51.41 ± 3.412
pull
Entries 88
Mean 45.77
Std Dev 44.37

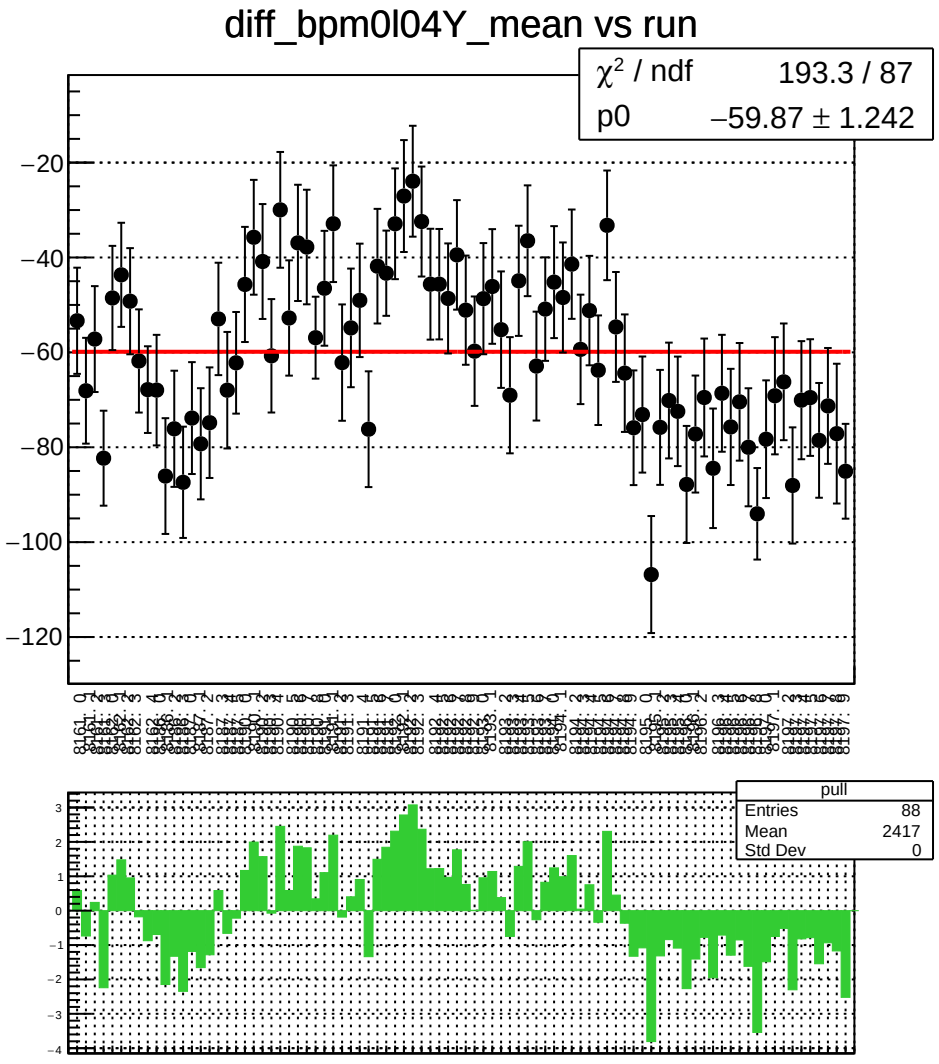

pull1D
Entries 88
Mean 0.1264
Std Dev 1.189

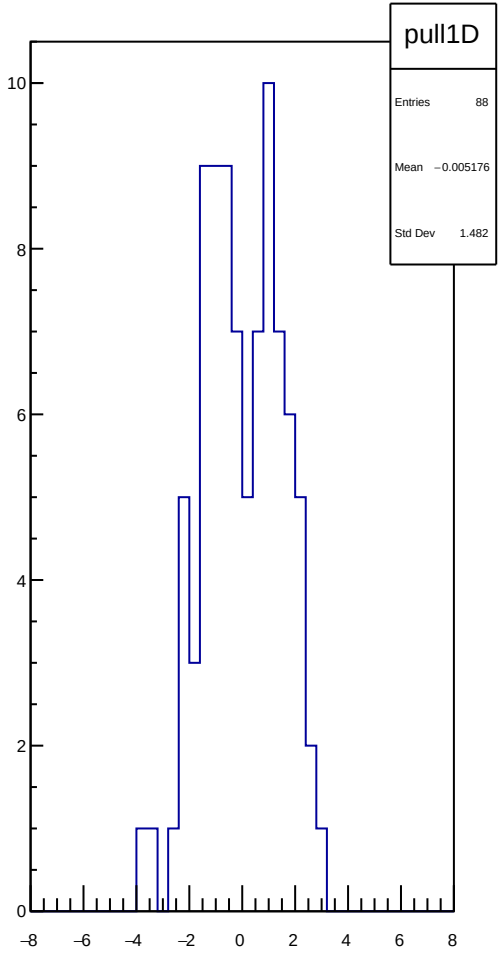

diff_bpm0l03Y_rms vs run
χ² / ndf 6.472e+05 / 87
p0 2436 ± 2.413
50000
40000
30000
20000
10000

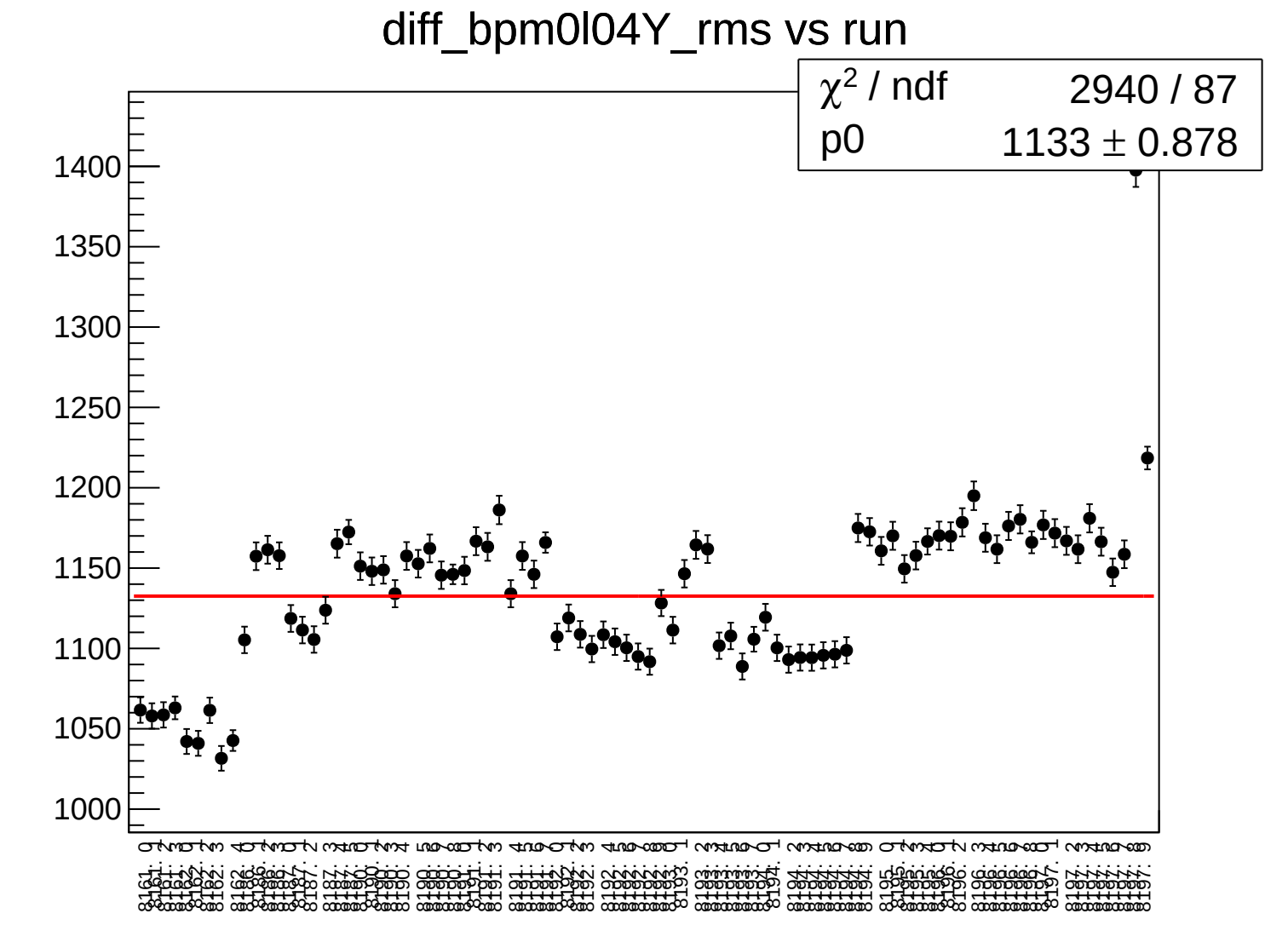

diff_bpm0l04X_mean vs run
χ^2 / ndf 130.8 / 87
p0 192.2 ± 4.189
pull
Entries 88
Mean −3922
Std Dev 0

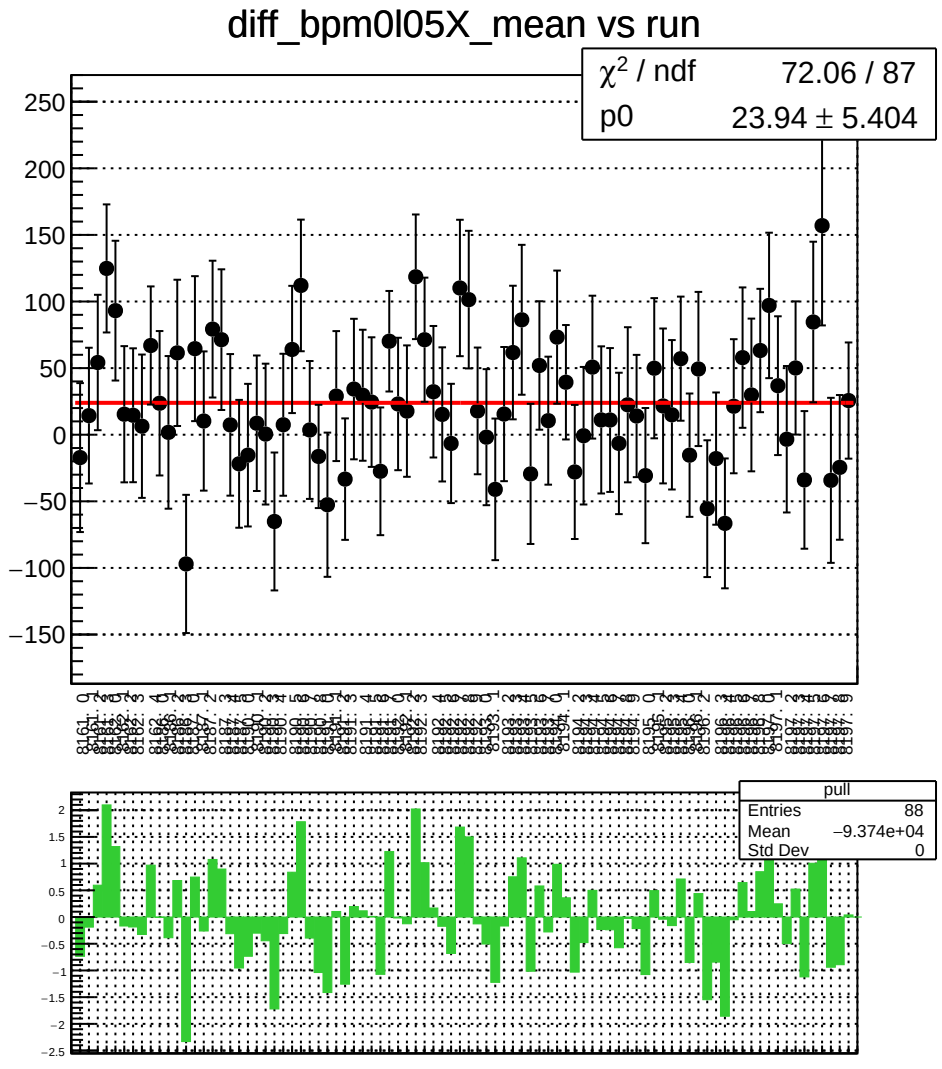

pull1D
Entries 88
Mean −0.002092
Std Dev 1.219

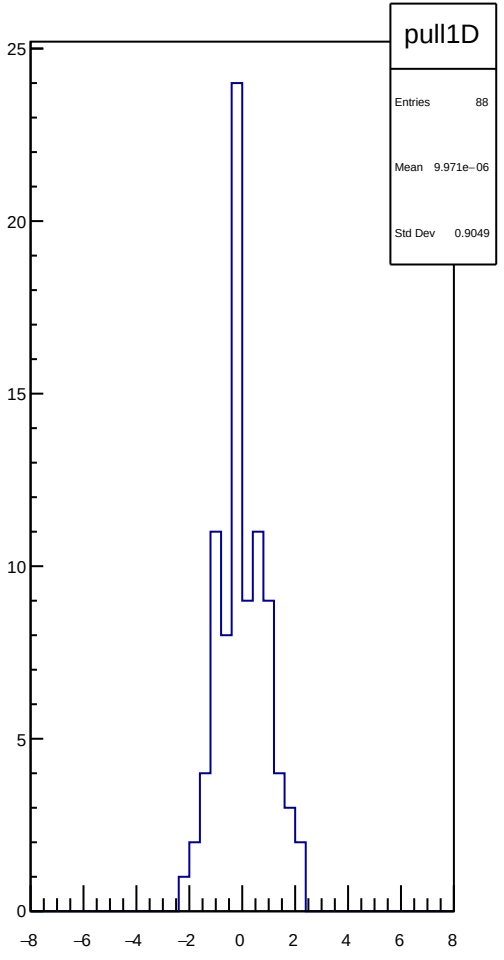

diff_bpm0l04X_rms vs run
χ² / ndf 3612 / 87
p0 3820 ± 2.962
6500
6000
5500
5000
4500
4000
3500

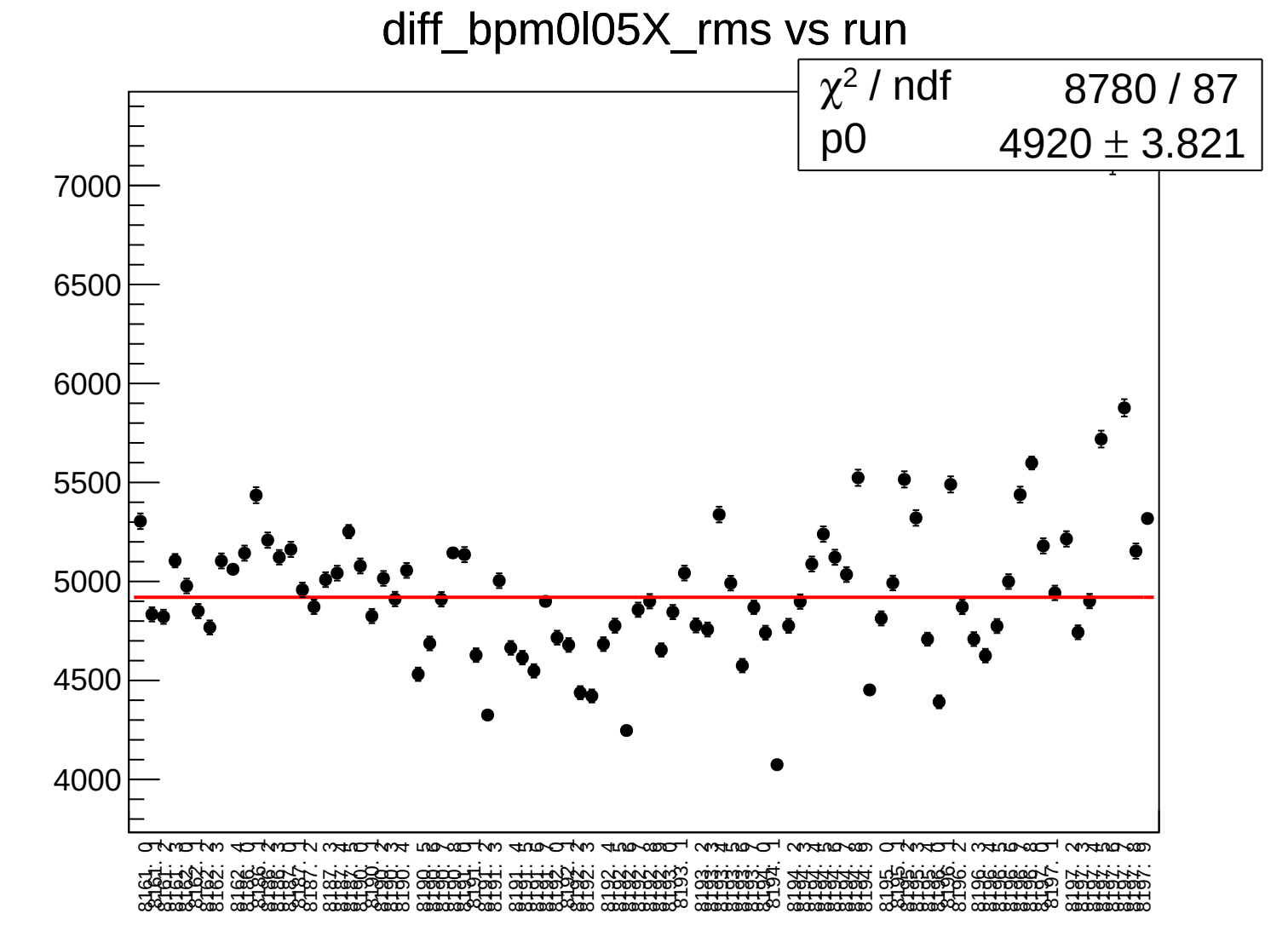

diff_bpm0l04Y_mean vs run
χ² / ndf 193.3 / 87
p0 −59.87 ± 1.242
pull
Entries 88
Mean 2417
Std Dev 0

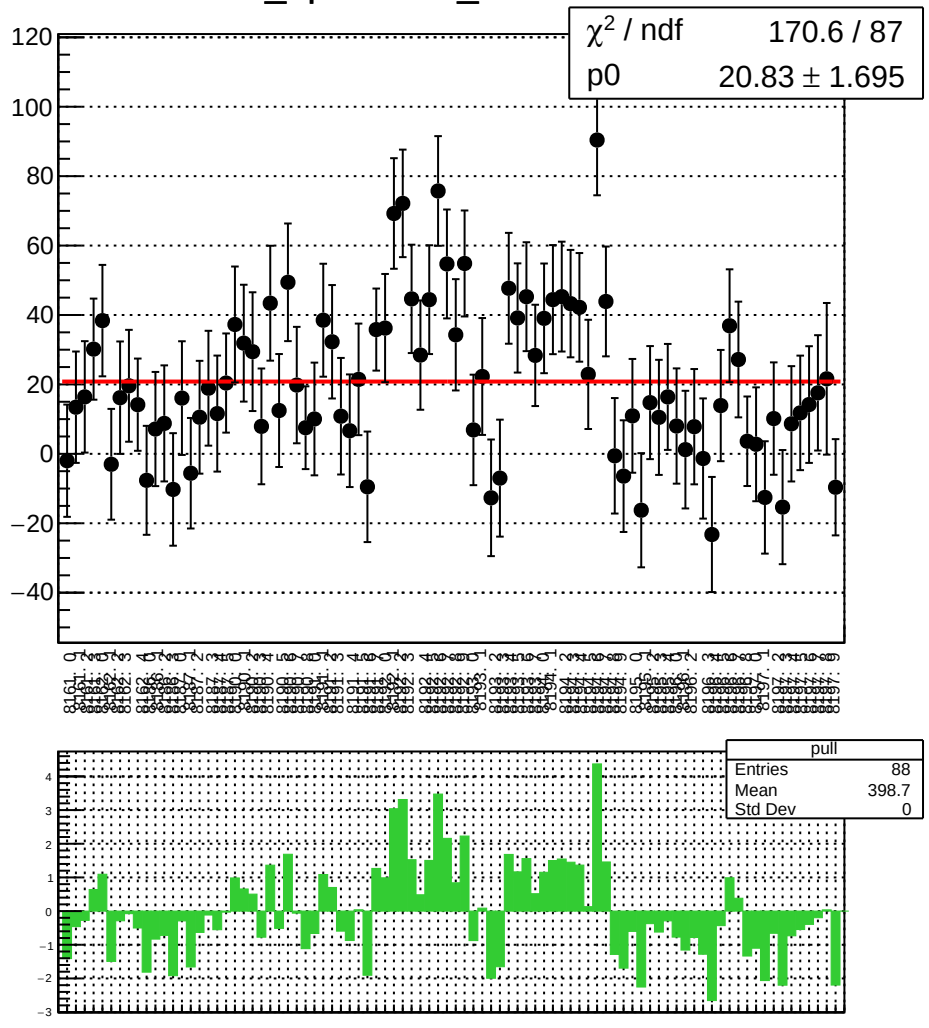

pull1D
Entries 88
Mean −0.005176
Std Dev 1.482

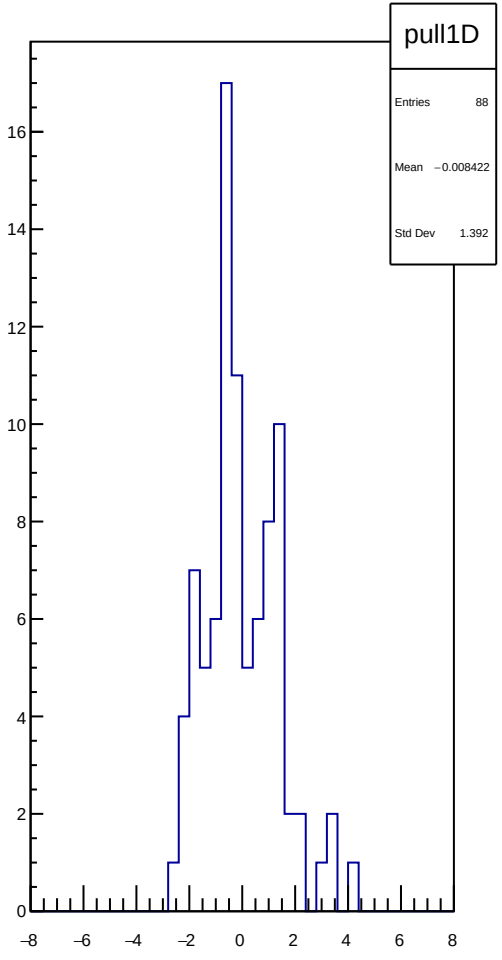

diff_bpm0l04Y_rms vs run
χ² / ndf 2940 / 87
p0 1133 ± 0.878
1400
1350
1300
1250
1200
1150
1100
1050
1000

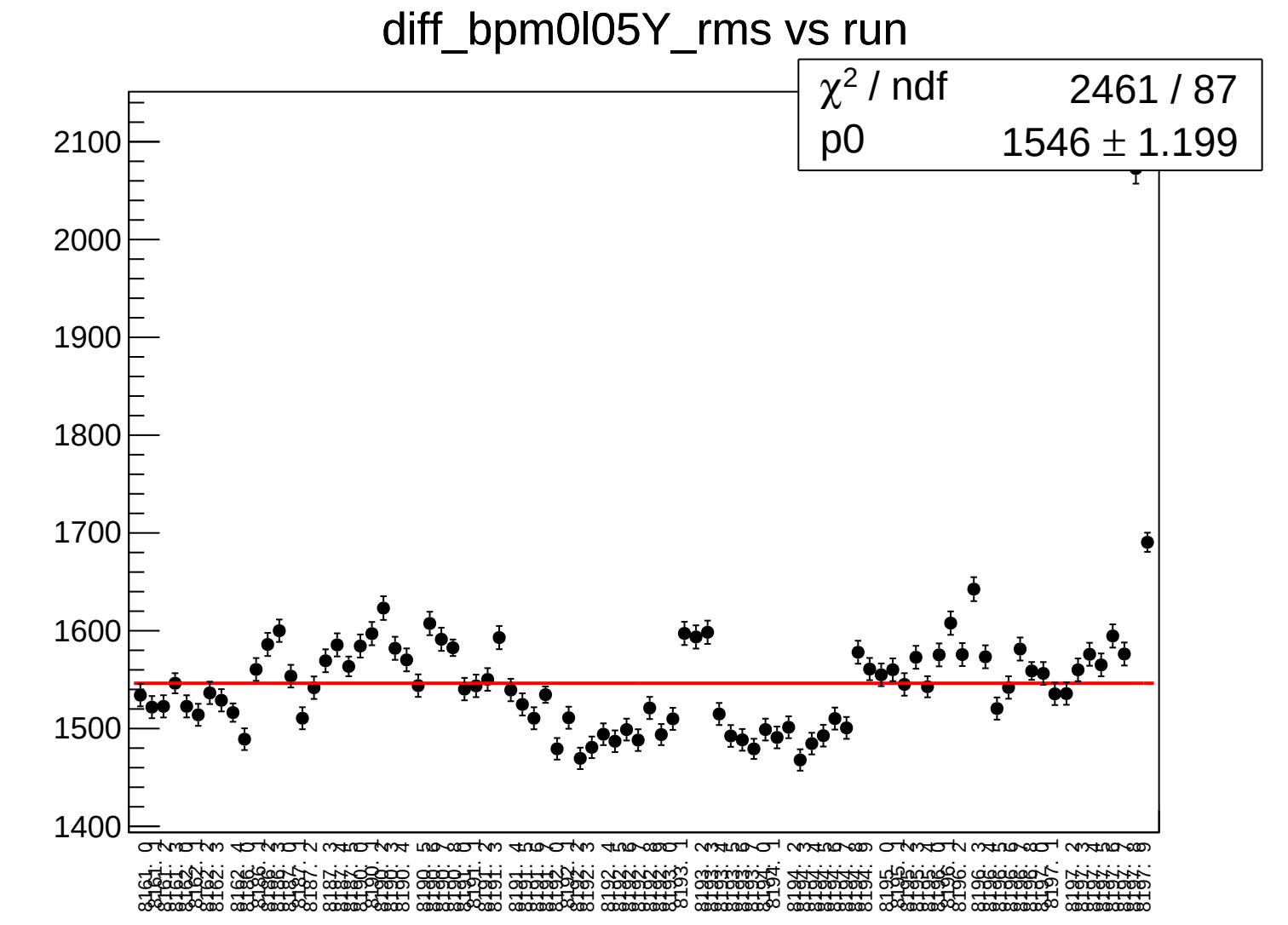

diff_bpm0l05X_mean vs run
χ² / ndf 72.06 / 87
p0 23.94 ± 5.404
pull
Entries 88
Mean −9.374e+04
Std Dev 0

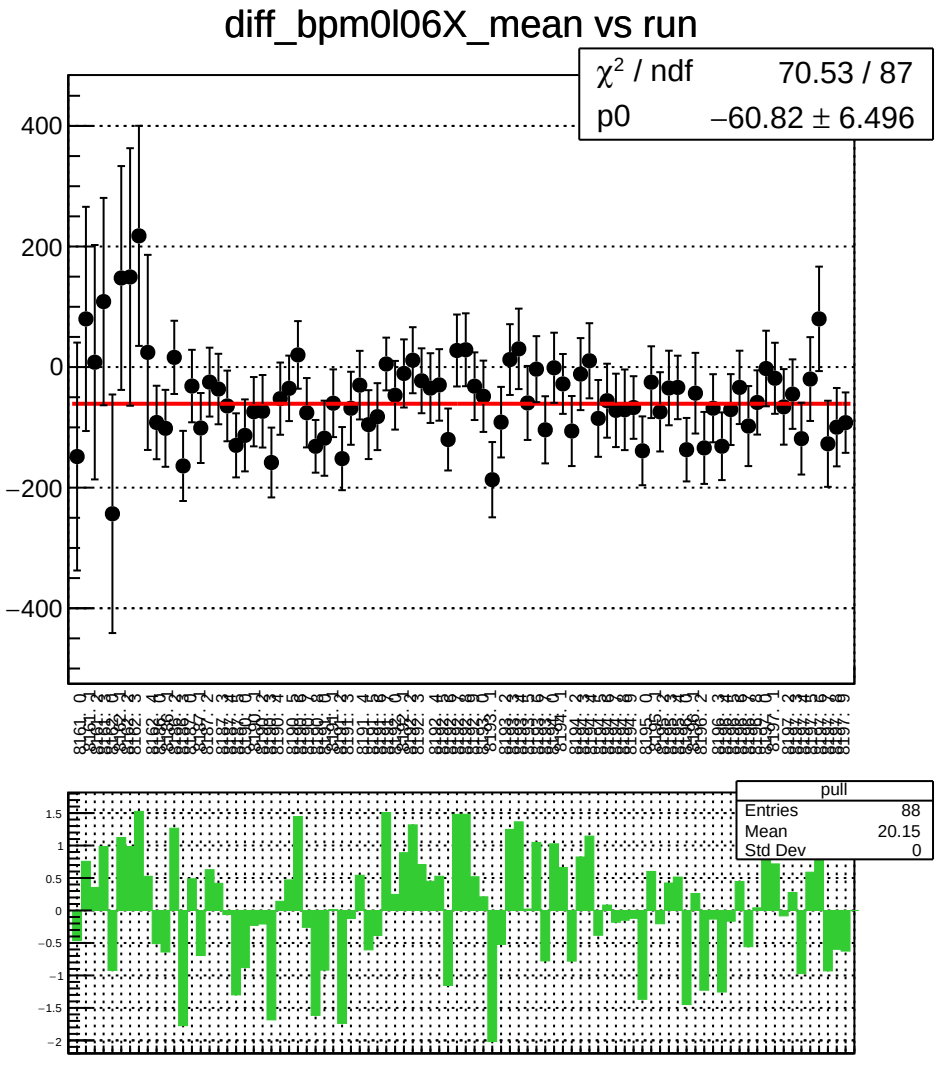

pull1D
Entries 88
Mean 9.971e−06
Std Dev 0.9049

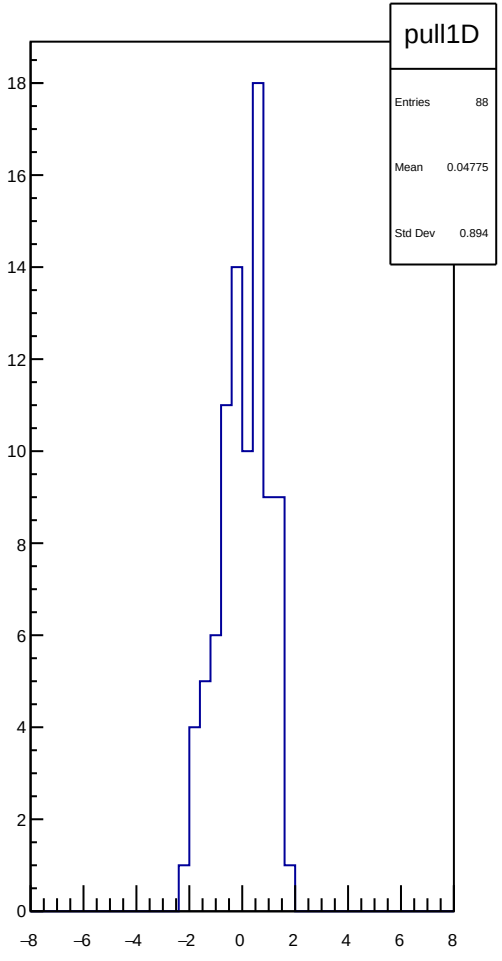

diff_bpm0l05X_rms vs run
χ² / ndf 8780 / 87
p0 4920 ± 3.821
7000
6500
6000
5500
5000
4500
4000

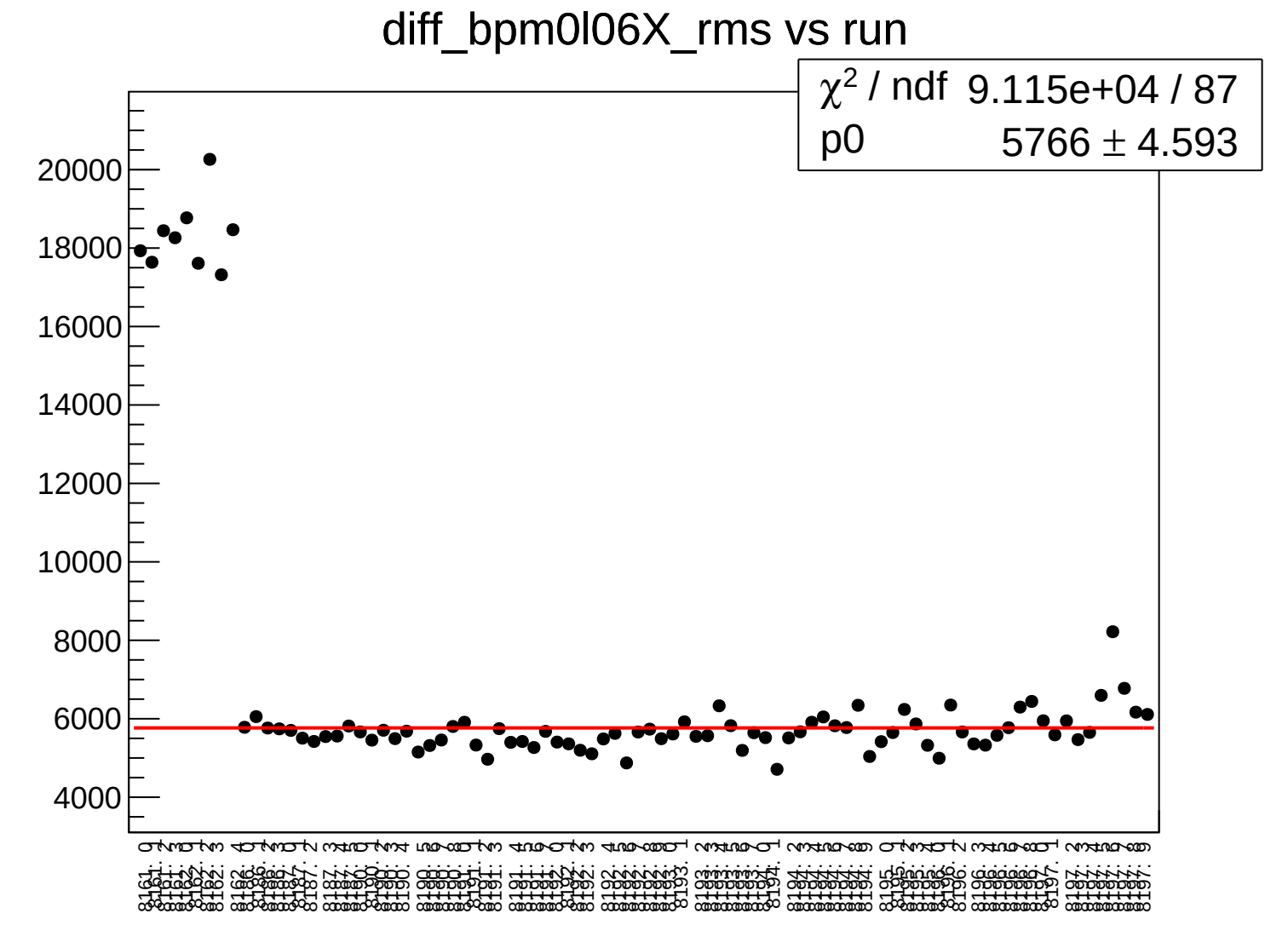

diff_bpm0l05Y_mean vs run
χ² / ndf 170.6 / 87
p0 20.83 ± 1.695
pull
Entries 88
Mean 398.7
Std Dev 0

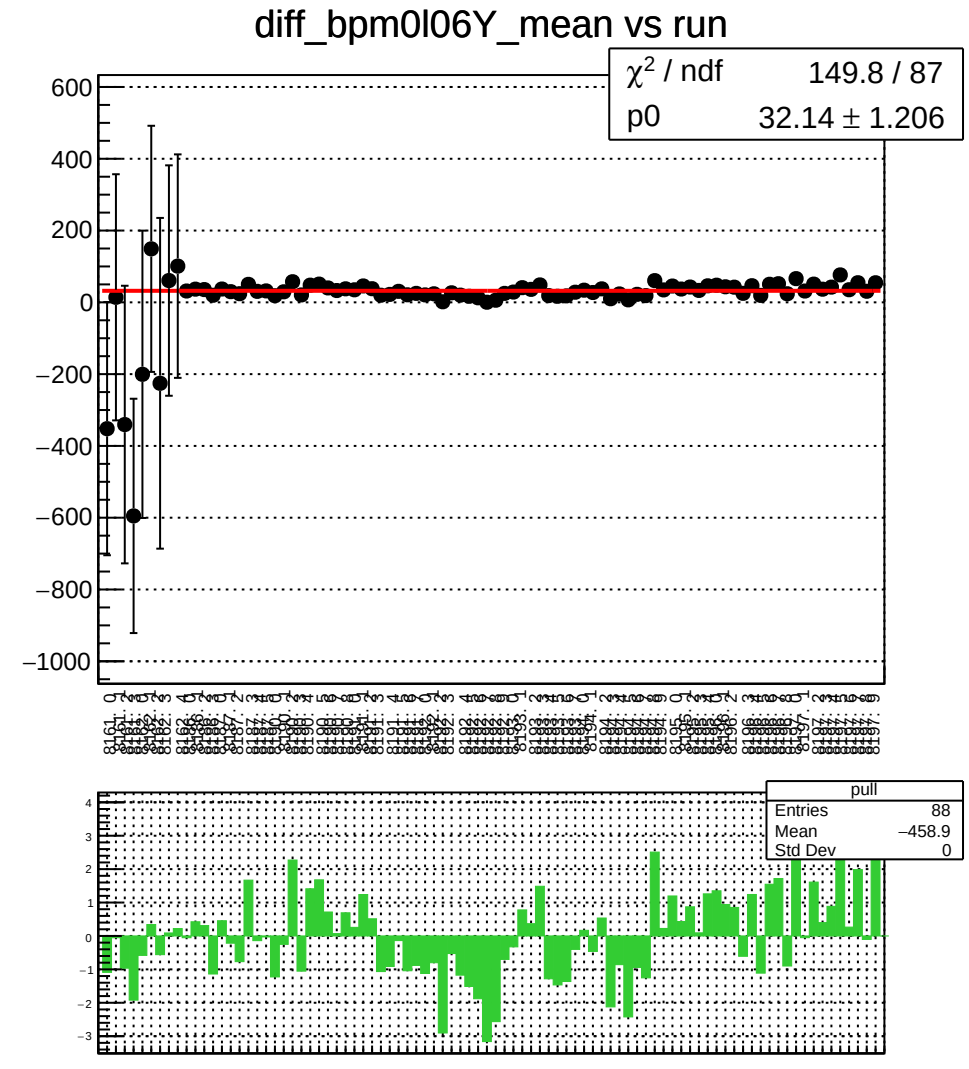

pull1D
Entries 88
Mean −0.008422
Std Dev 1.392

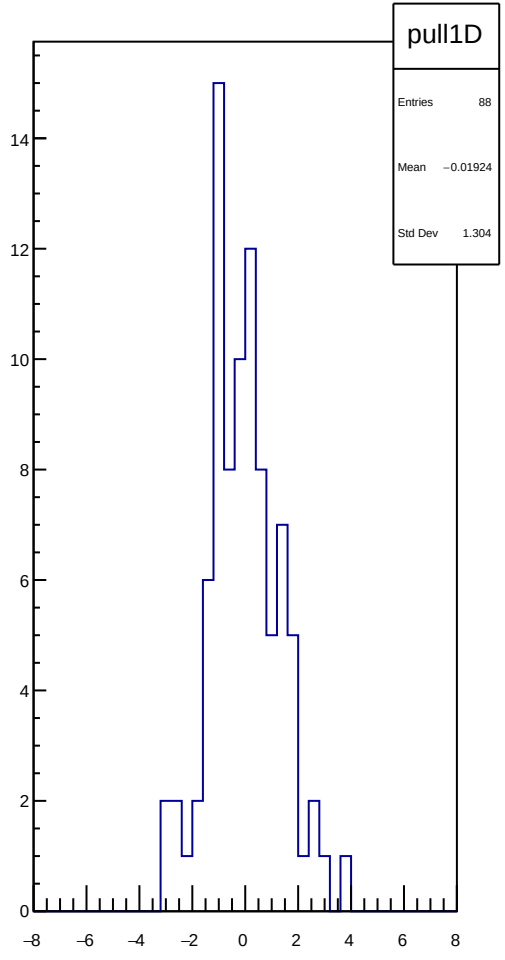

diff_bpm0l05Y_rms vs run
χ² / ndf 2461 / 87
p0 1546 ± 1.199
2100
2000
1900
1800
1700
1600
1500
1400

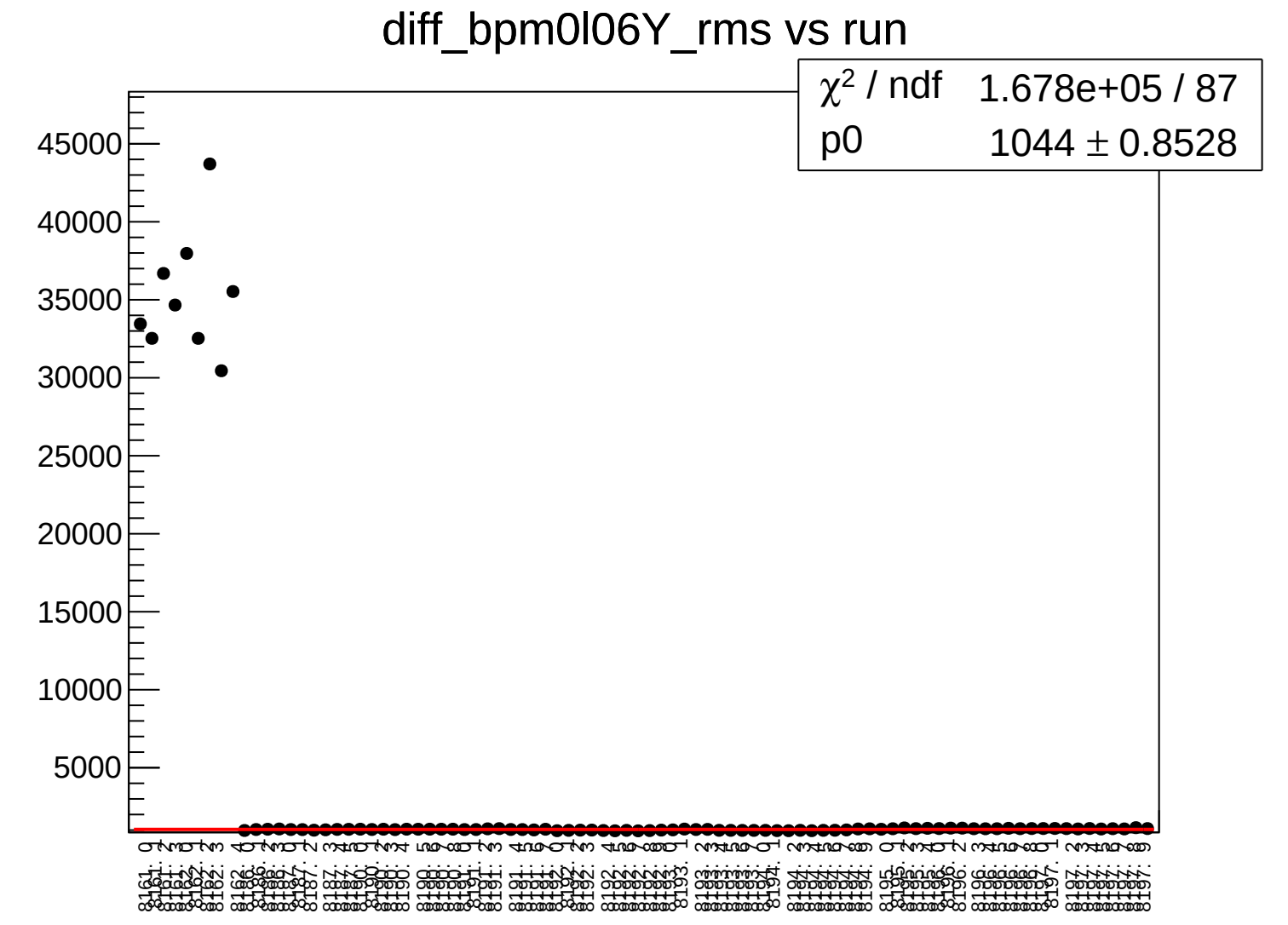

diff_bpm0l06X_mean vs run
χ² / ndf 70.53 / 87
p0 −60.82 ± 6.496
pull
Entries 88
Mean 20.15
Std Dev 0

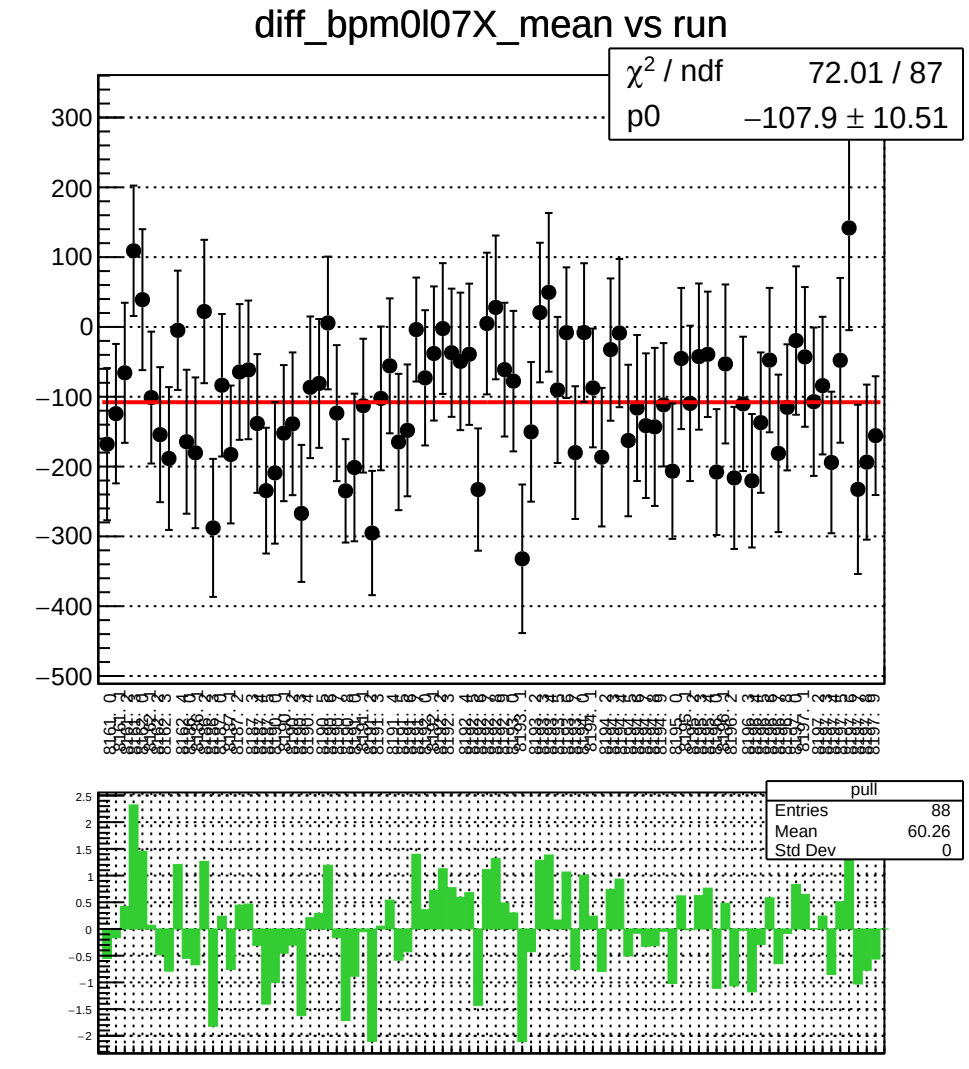

pull1D
Entries 88
Mean 0.04775
Std Dev 0.894

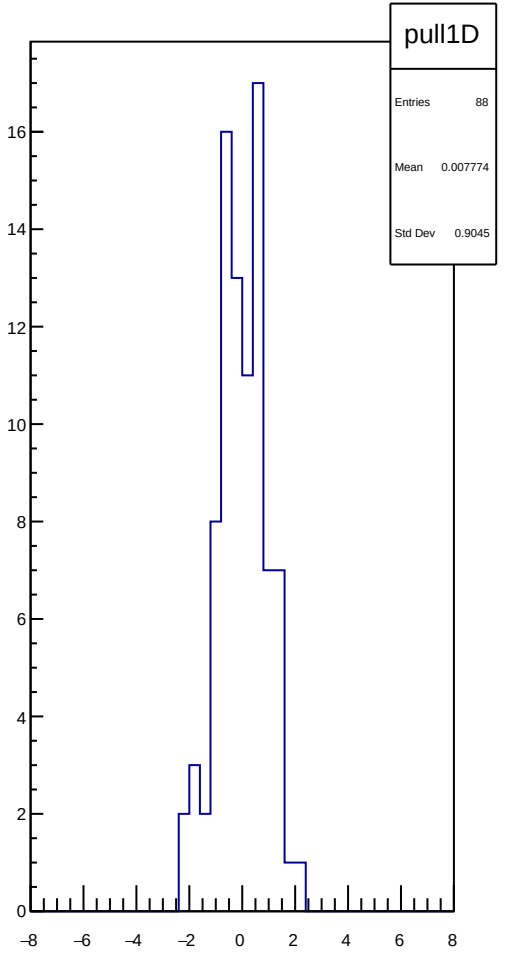

diff_bpm0l06X_rms vs run
χ^2 / ndf 9.115e+04 / 87
p0 5766 ± 4.593
20000
18000
16000
14000
12000
10000
8000
6000
4000

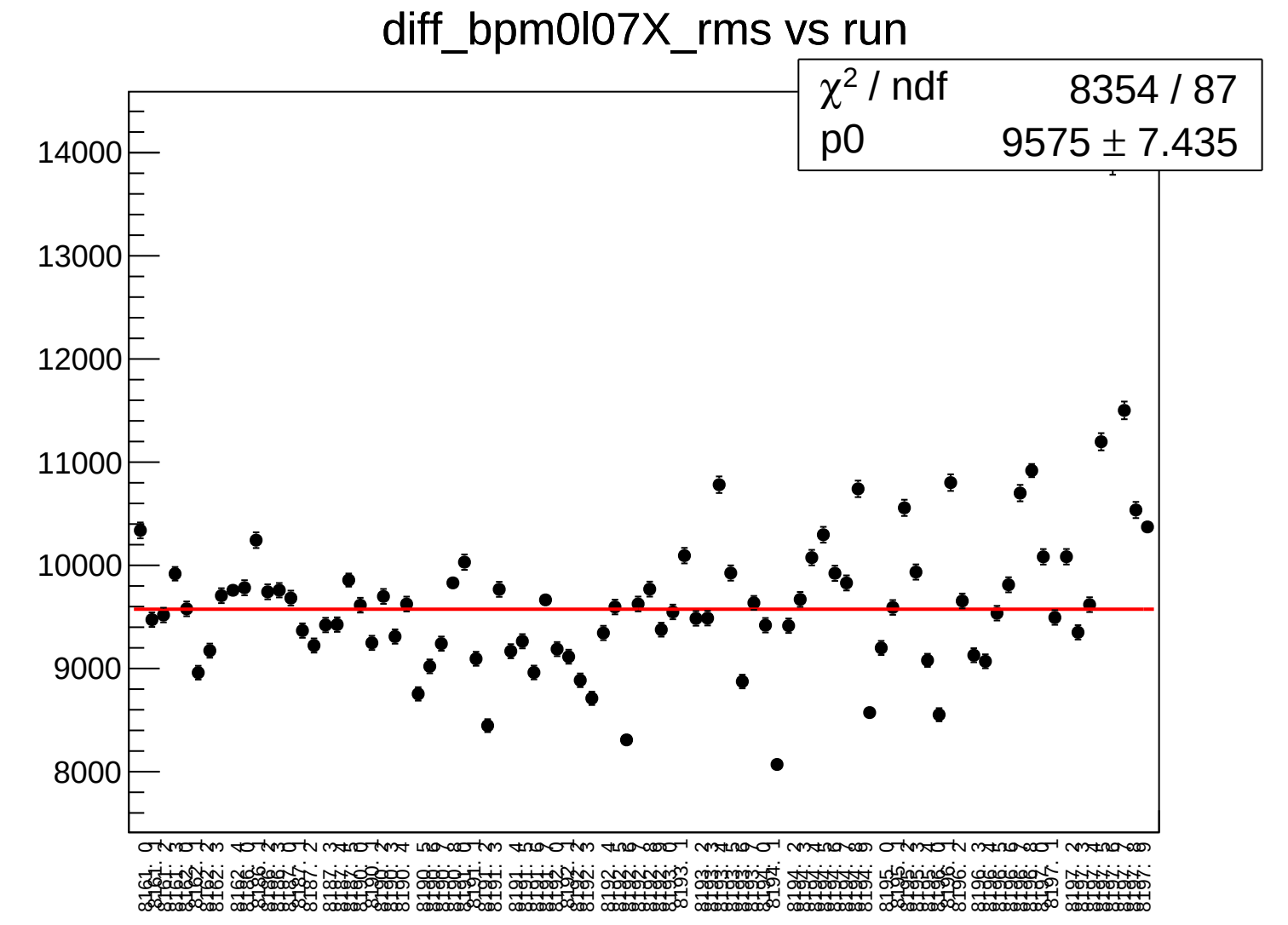

diff_bpm0l06Y_mean vs run
χ² / ndf 149.8 / 87
p0 32.14 ± 1.206
pull
Entries 88
Mean −458.9
Std Dev 0

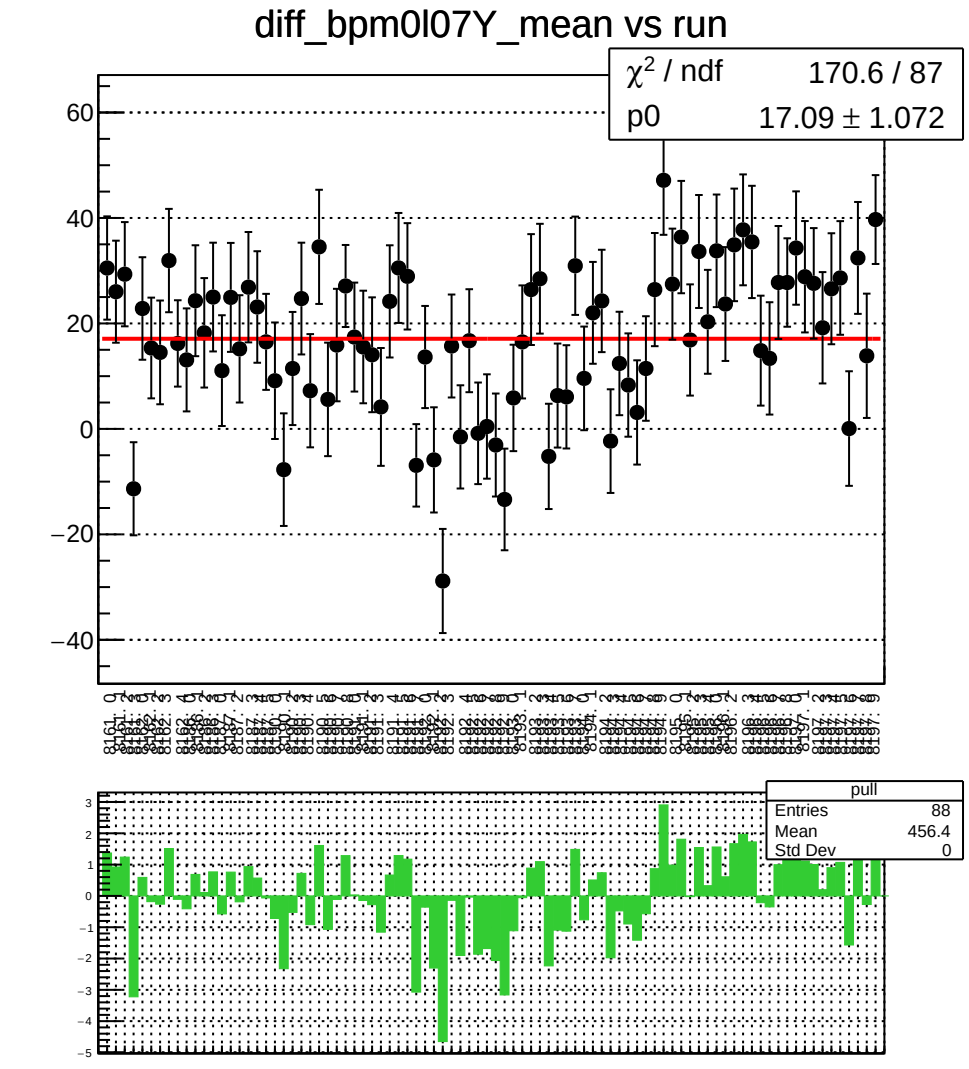

pull1D
Entries 88
Mean −0.01924
Std Dev 1.304

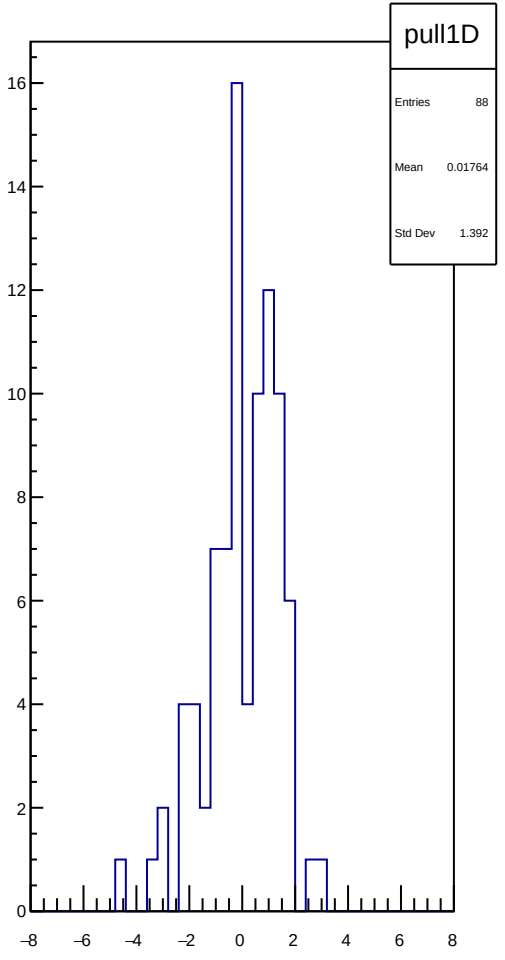

diff_bpm0l06Y_rms vs run
χ² / ndf 1.678e+05 / 87
p0 1044 ± 0.8528
45000
40000
35000
30000
25000
20000
15000
10000
5000

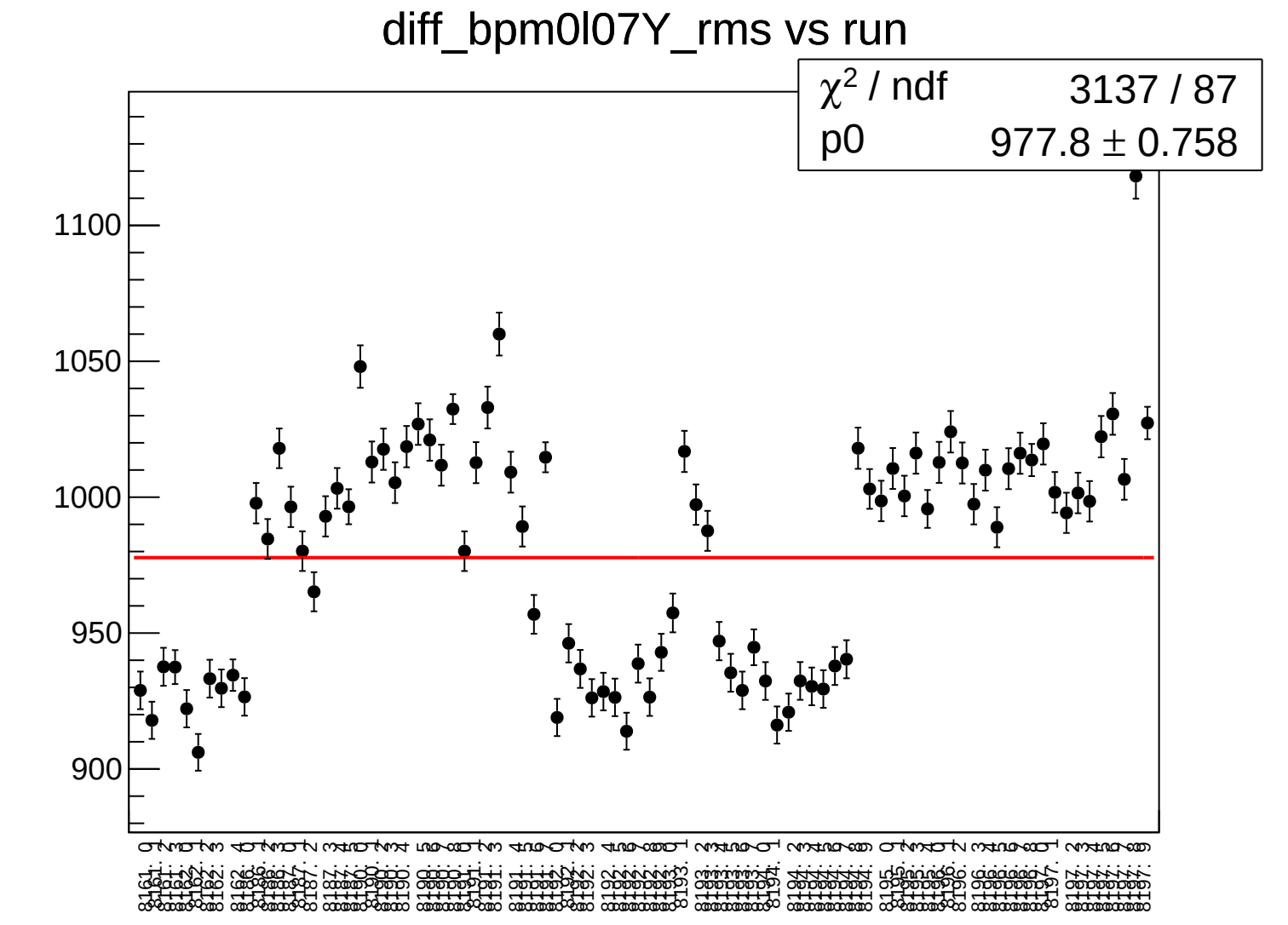

diff_bpm0l07X_mean vs run
χ² / ndf 72.01 / 87
p0 −107.9 ± 10.51
pull
Entries 88
Mean 60.26
Std Dev 0

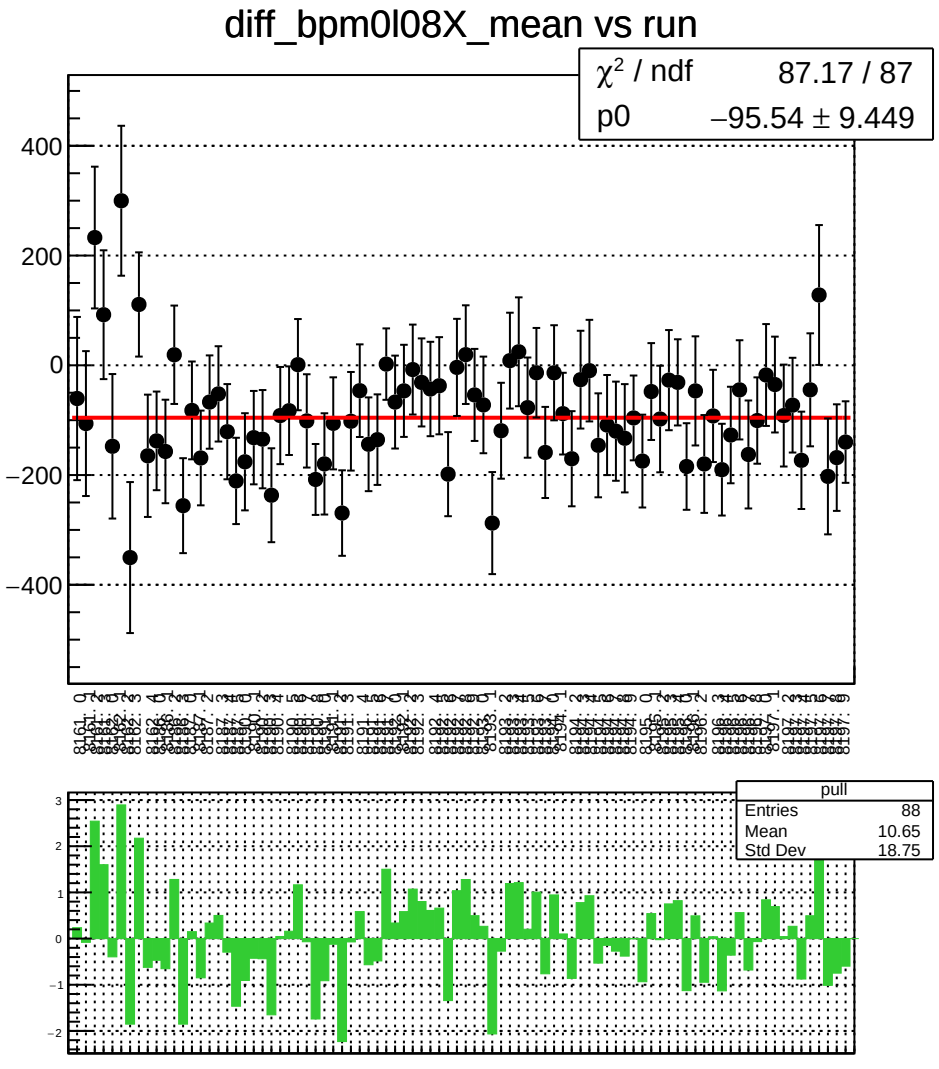

pull1D
Entries 88
Mean 0.007774
Std Dev 0.9045

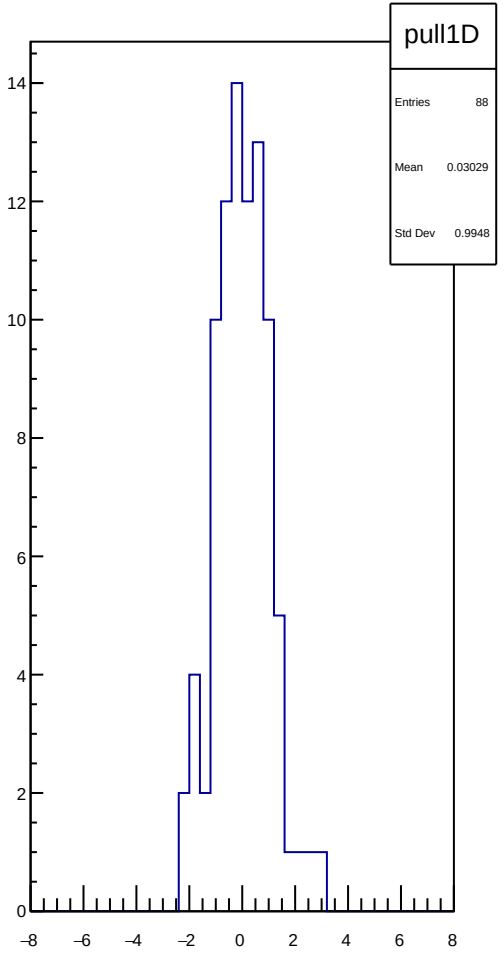

diff_bpm0l07X_rms vs run
χ² / ndf 8354 / 87
p0 9575 ± 7.435
14000
13000
12000
11000
10000
9000
8000

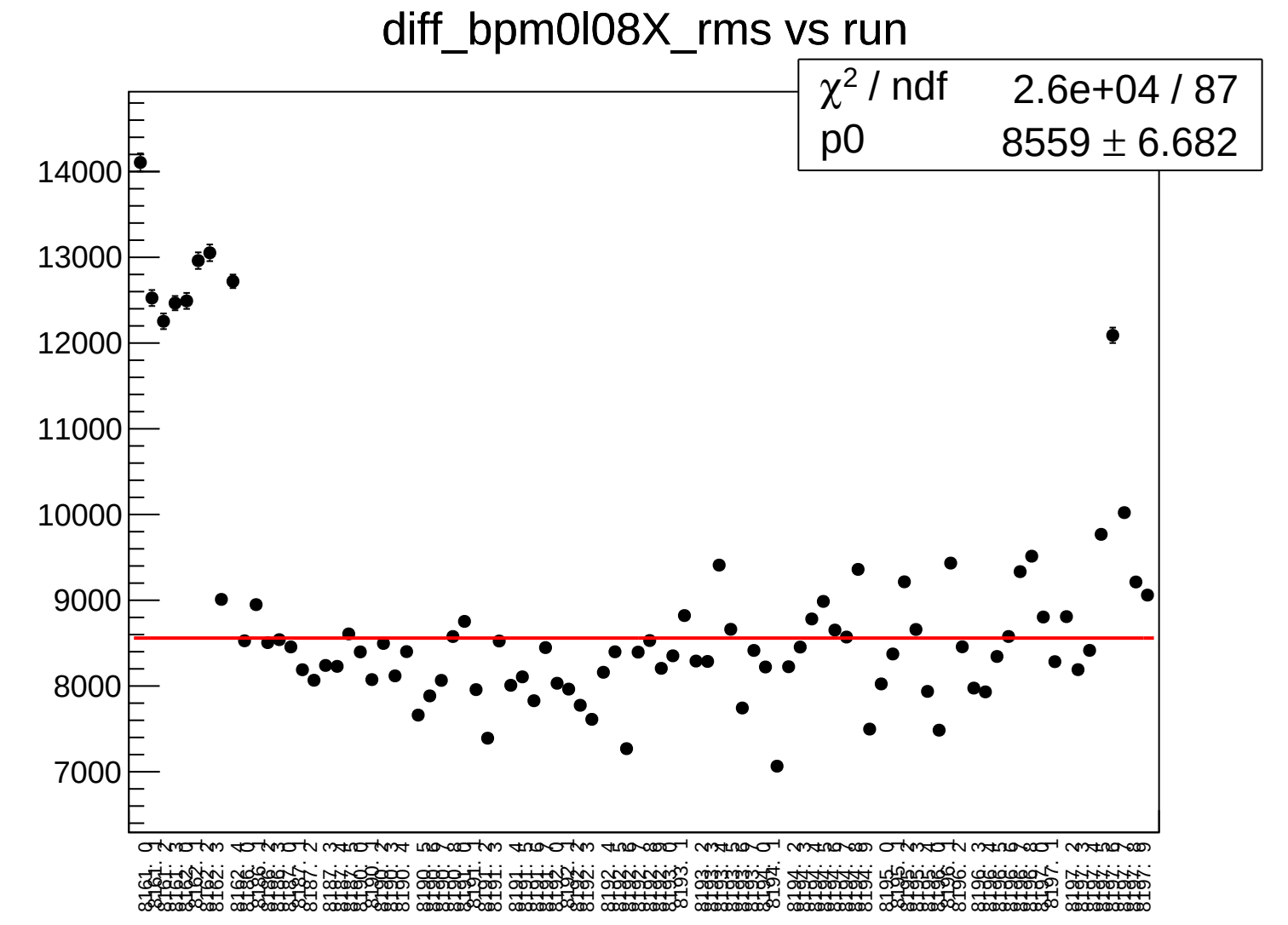

diff_bpm0l07Y_mean vs run
χ² / ndf 170.6 / 87
p0 17.09 ± 1.072
pull
Entries 88
Mean 456.4
Std Dev 0

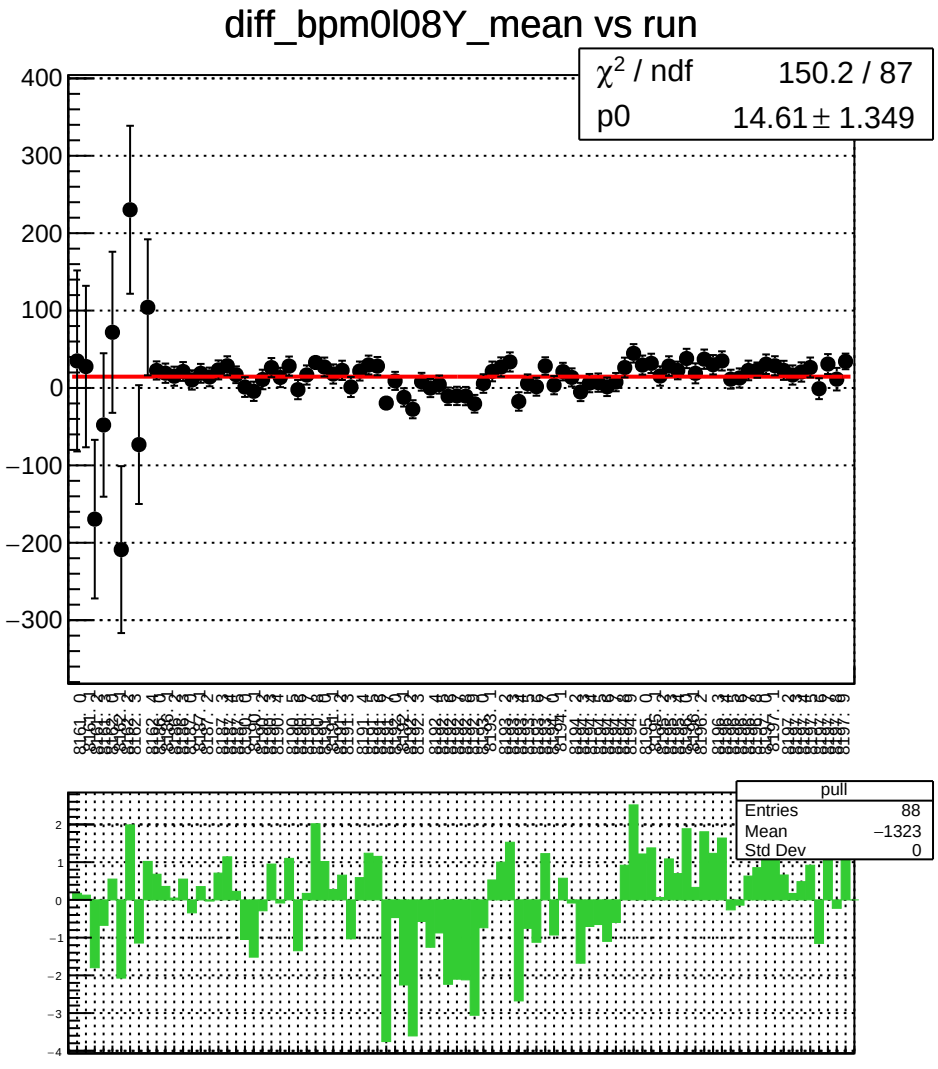

pull1D
Entries 88
Mean 0.01764
Std Dev 1.392

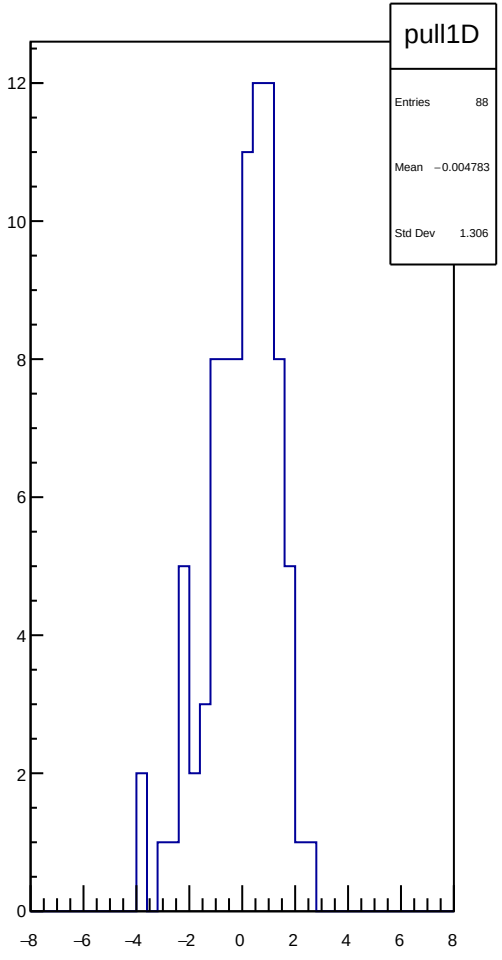

diff_bpm0l07Y_rms vs run
χ² / ndf 3137 / 87
p0 977.8 ± 0.758
1100
1050
1000
950
900

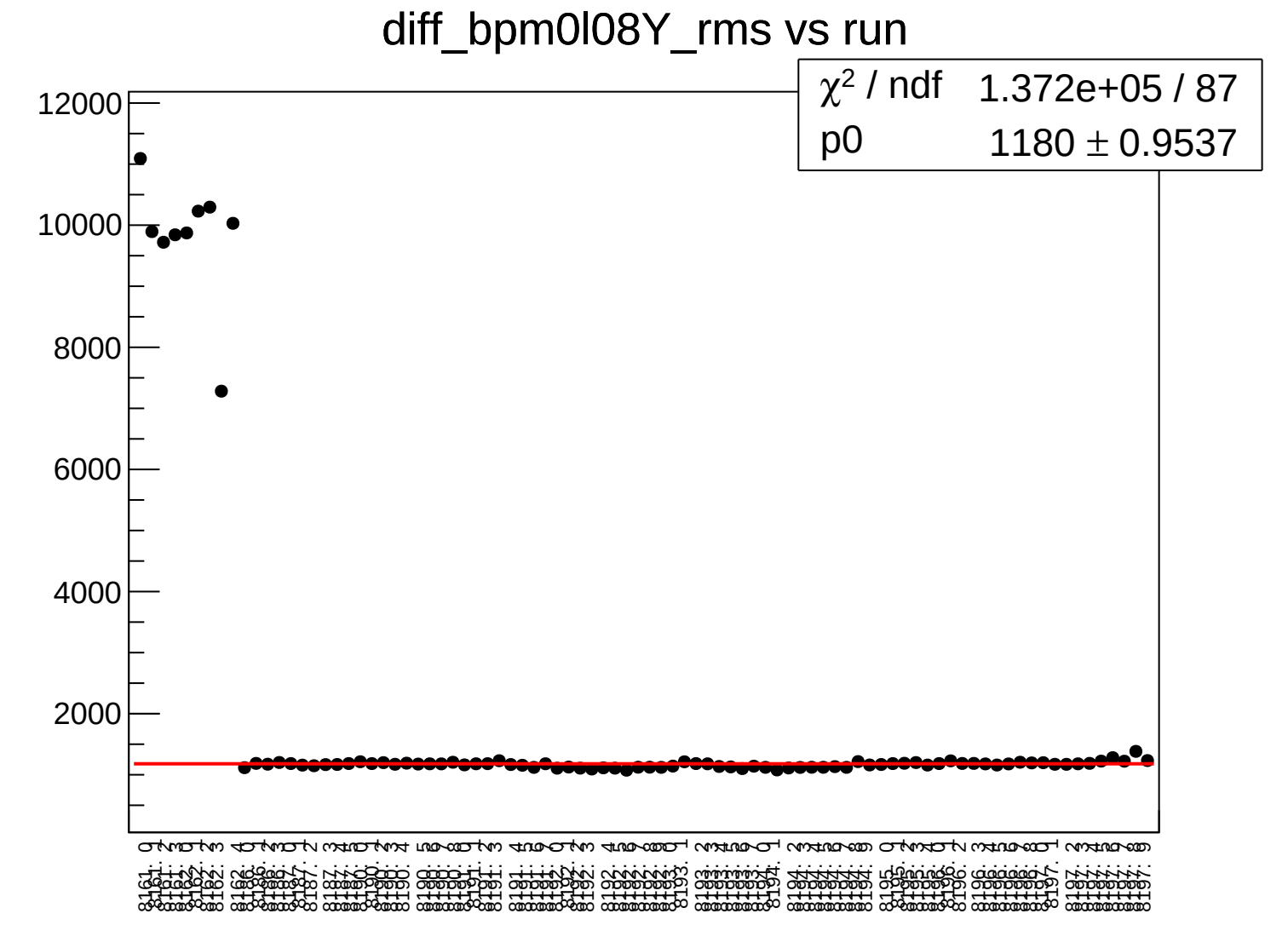

diff_bpm0l08X_mean vs run
χ² / ndf 87.17 / 87
p0 −95.54 ± 9.449
400
200
0
−200
−400
pull
Entries 88
Mean 10.65
Std Dev 18.75
3
2
1
0
−1
−2

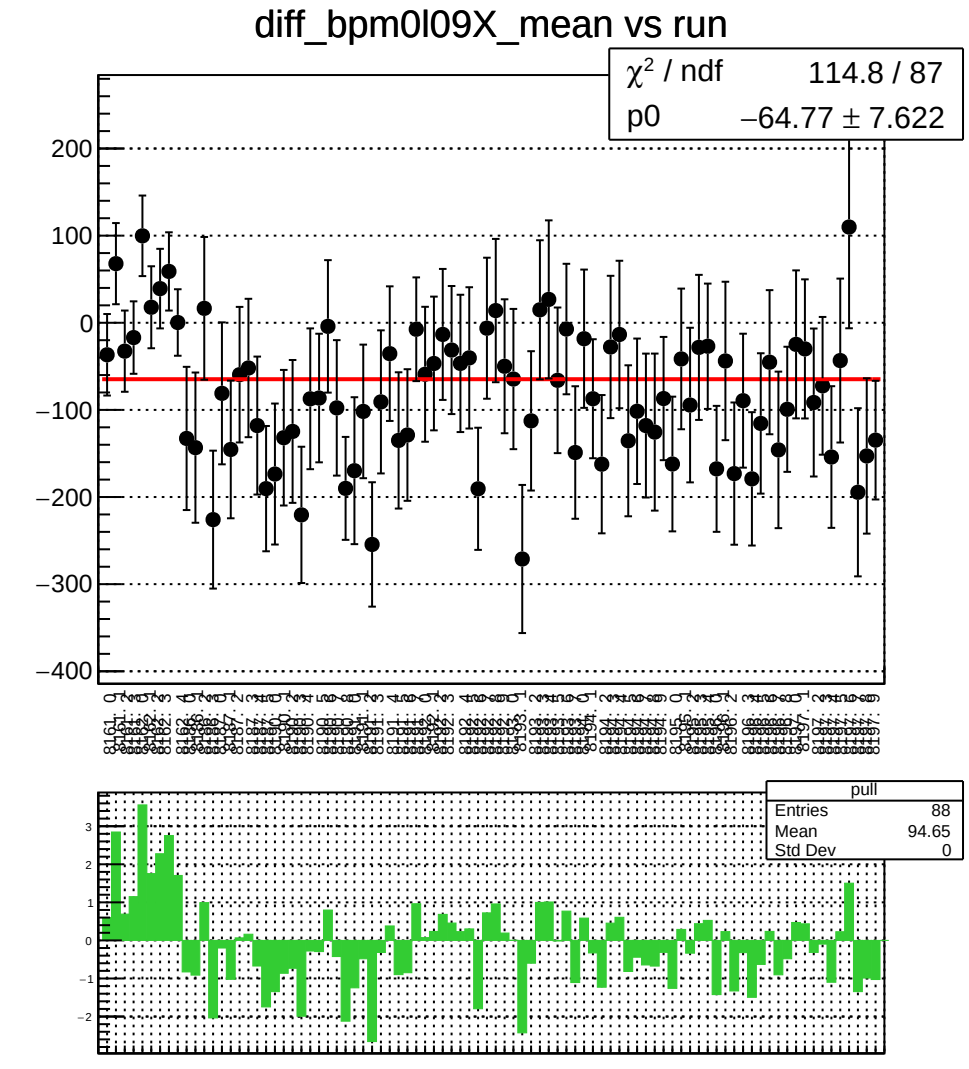

pull1D
Entries 88
Mean 0.03029
Std Dev 0.9948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

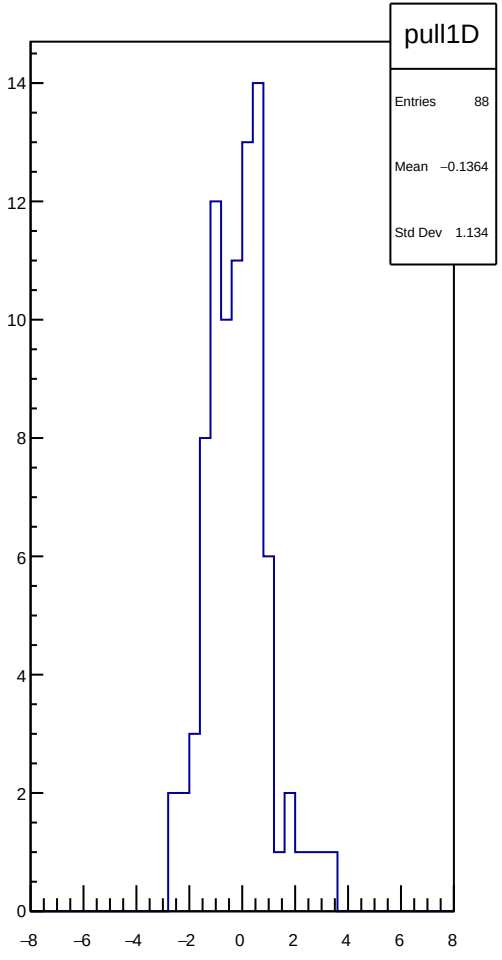

diff_bpm0l08X_rms vs run
χ² / ndf 2.6e+04 / 87
p0 8559 ± 6.682
14000
13000
12000
11000
10000
9000
8000
7000

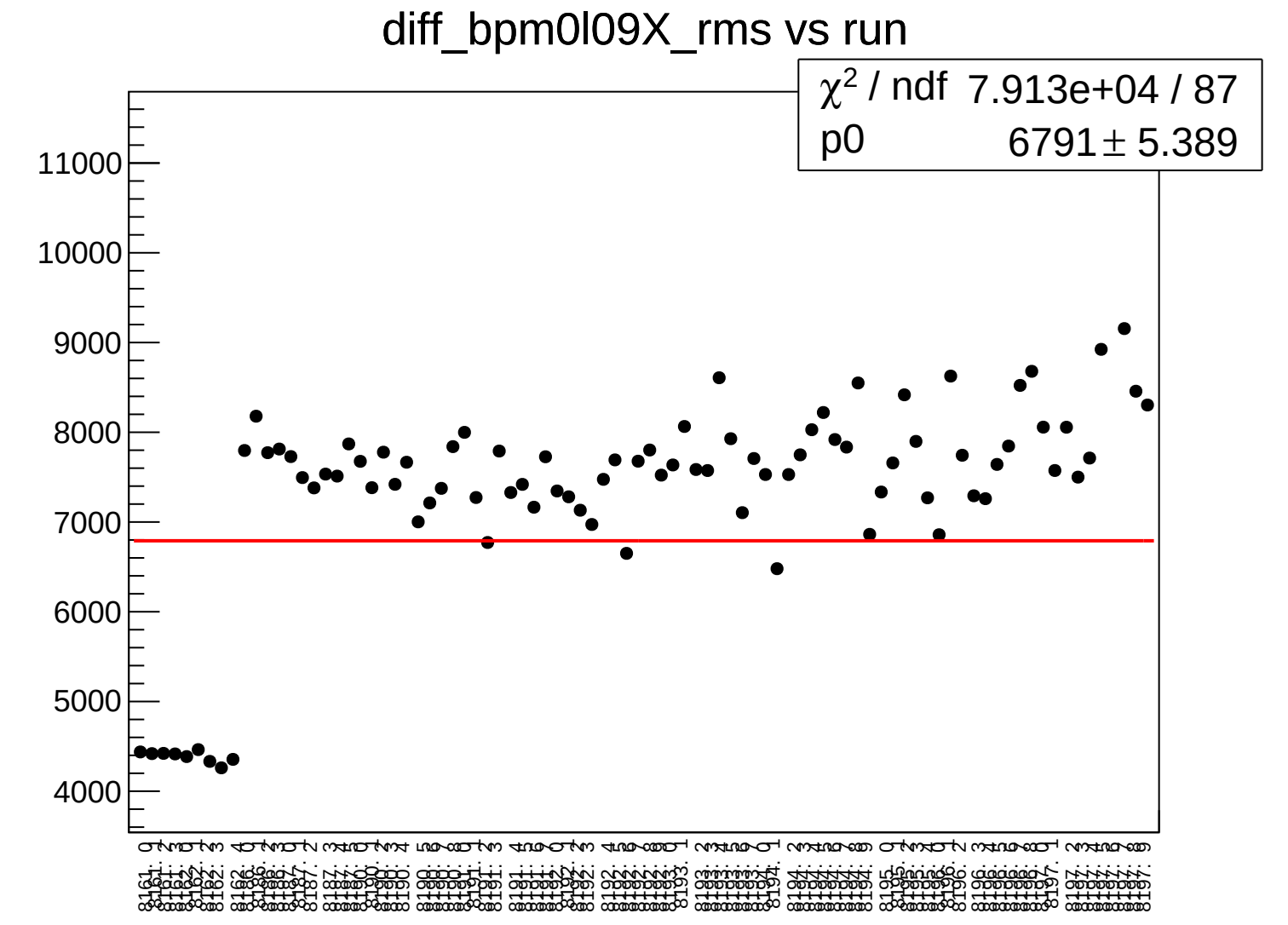

diff_bpm0l08Y_mean vs run
χ² / ndf 150.2 / 87
p0 14.61 ± 1.349
pull
Entries 88
Mean −1323
Std Dev 0

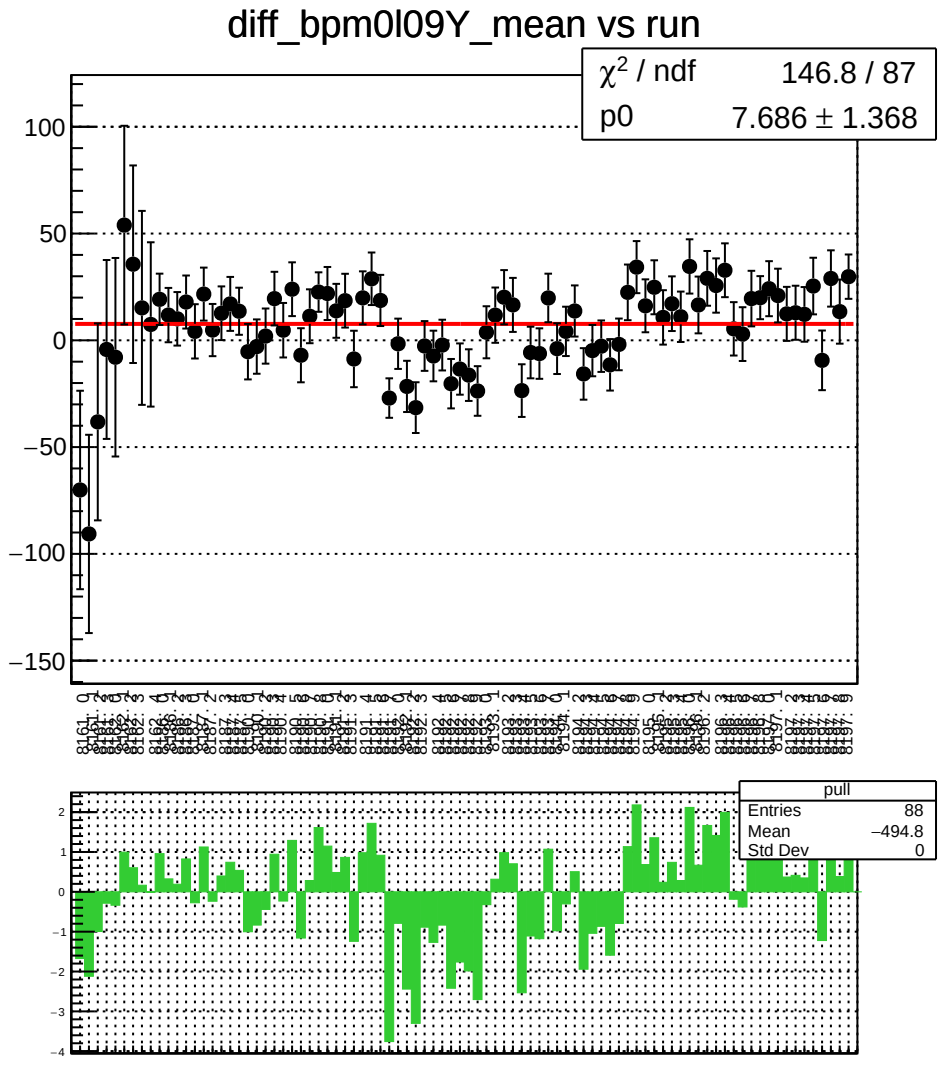

pull1D
Entries 88
Mean −0.004783
Std Dev 1.306

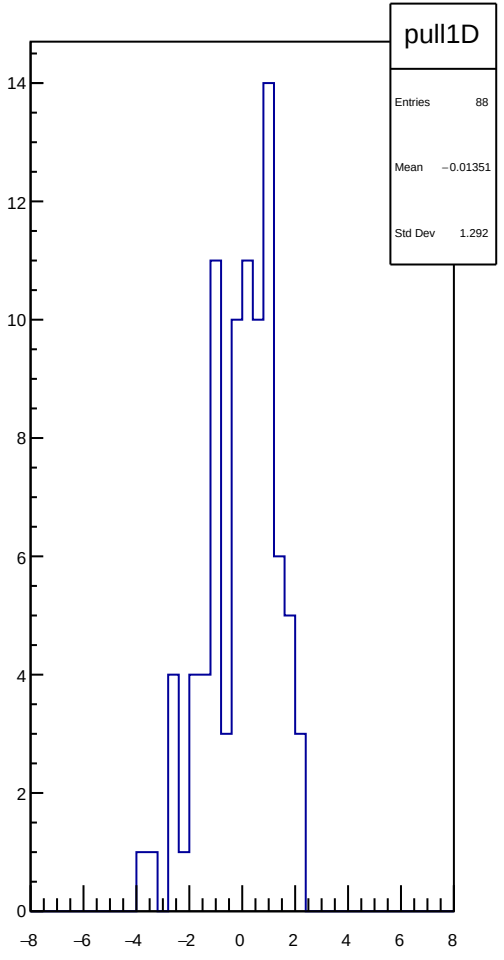

diff_bpm0l08Y_rms vs run
χ² / ndf 1.372e+05 / 87
p0 1180 ± 0.9537
12000
10000
8000
6000
4000
2000

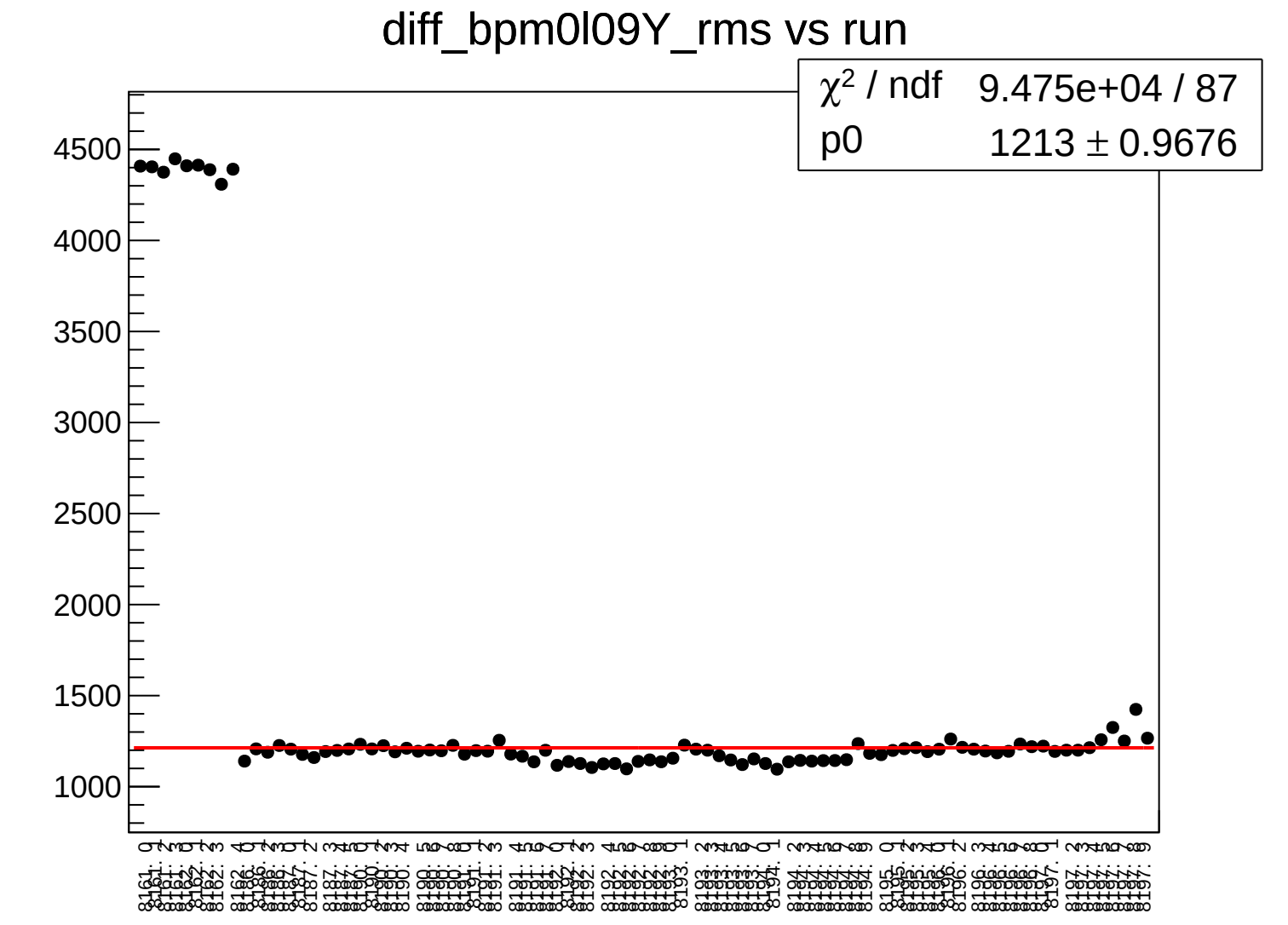

diff_bpm0l09X_mean vs run
χ² / ndf 114.8 / 87
p0 −64.77 ± 7.622
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 94.65
Std Dev 0
3
2
1
0
−1
−2

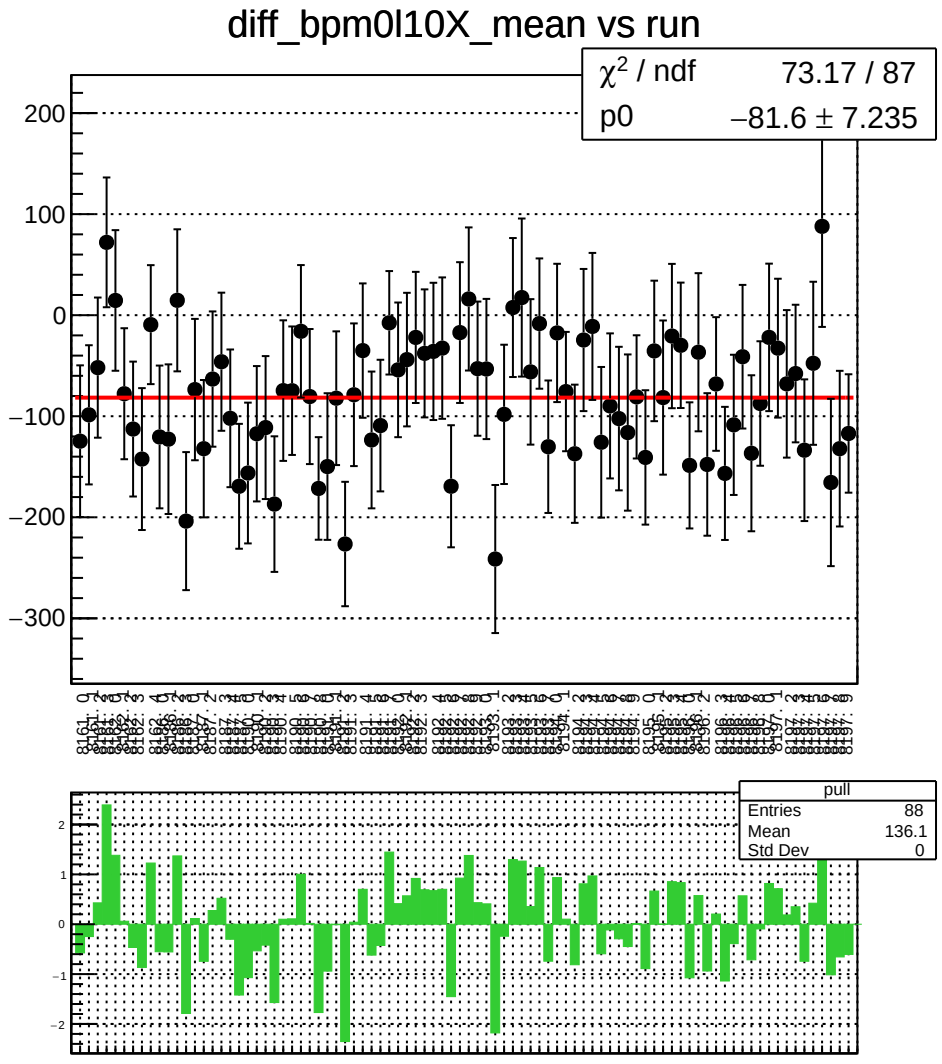

pull1D
Entries 88
Mean −0.1364
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

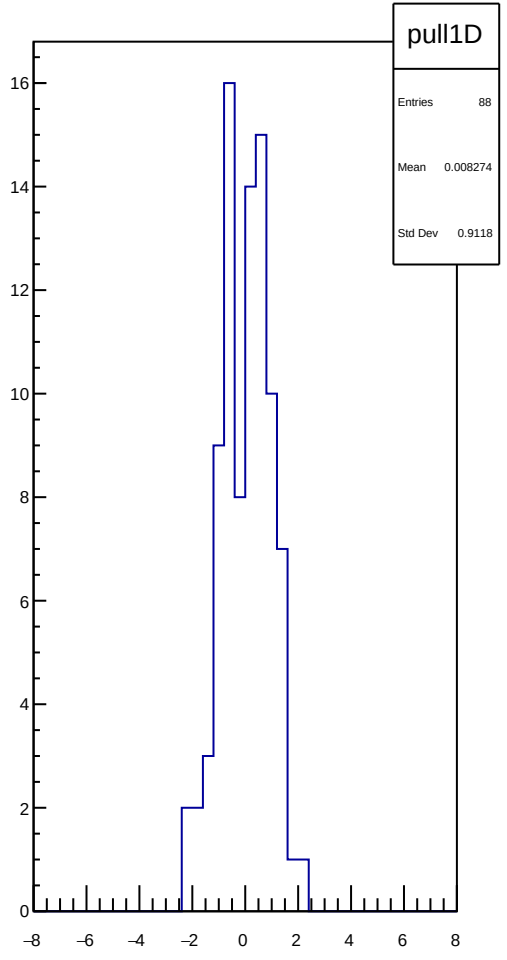

diff_bpm0l09X_rms vs run
χ² / ndf 7.913e+04 / 87
p0 6791 ± 5.389
11000
10000
9000
8000
7000
6000
5000
4000

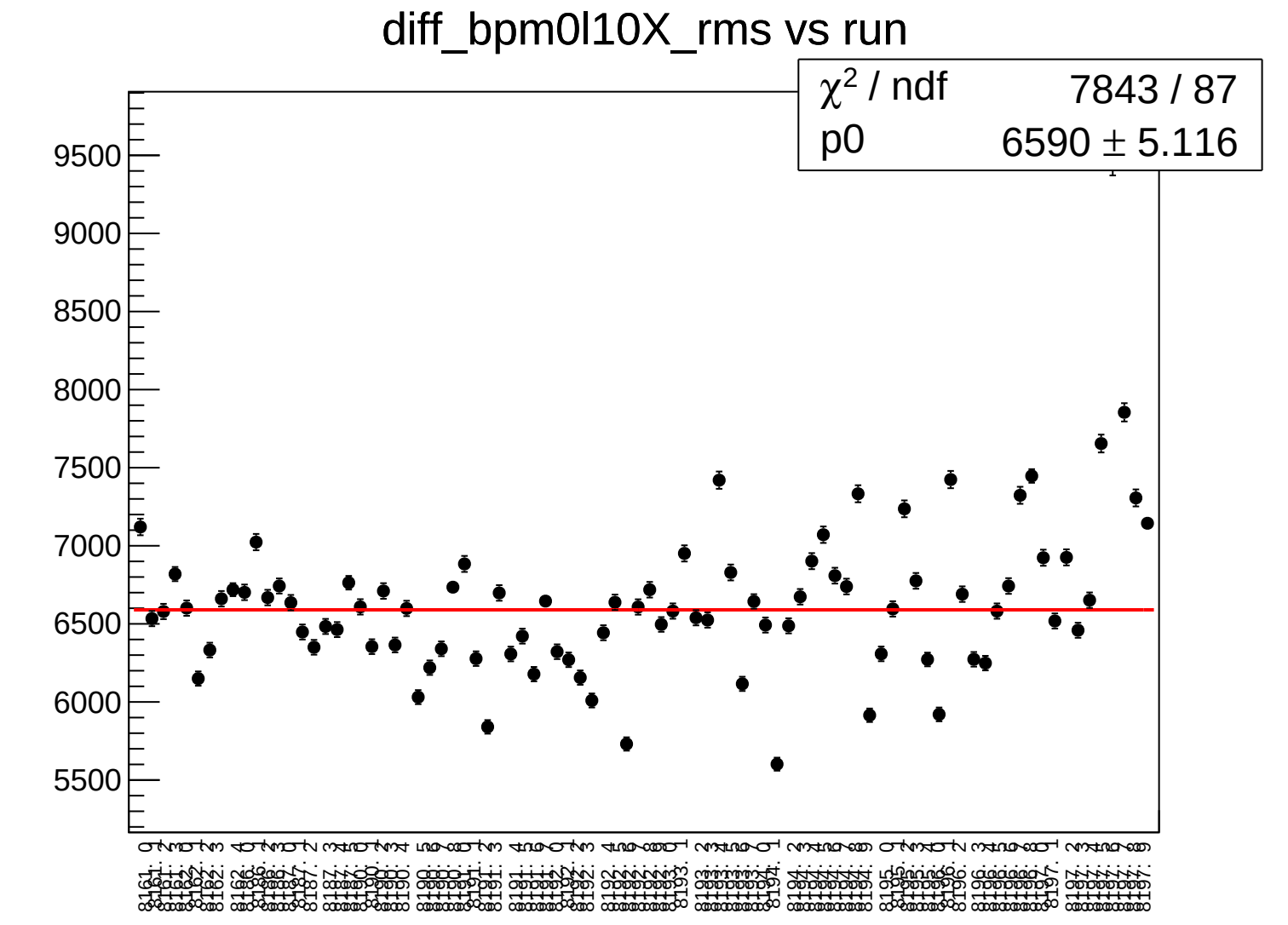

diff_bpm0l09Y_mean vs run
χ² / ndf 146.8 / 87
p0 7.686 ± 1.368
pull
Entries 88
Mean −494.8
Std Dev 0

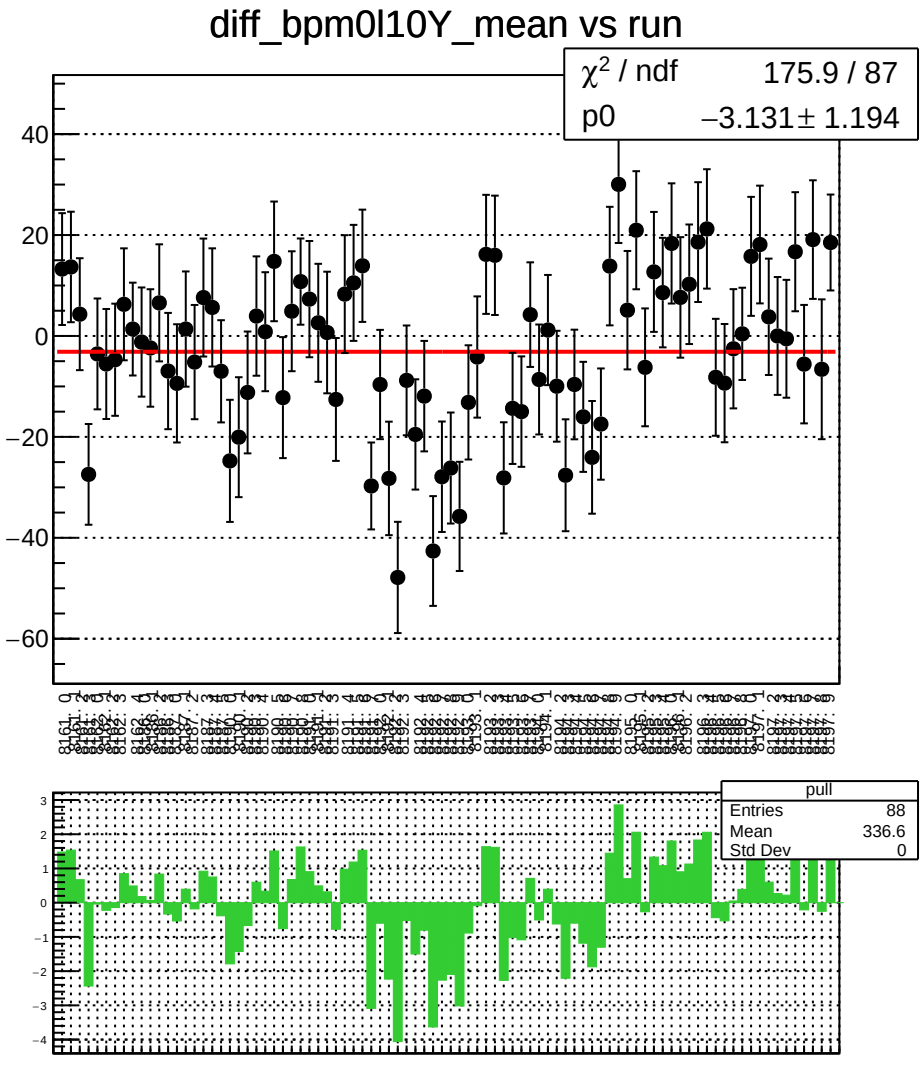

pull1D
Entries 88
Mean −0.01351
Std Dev 1.292

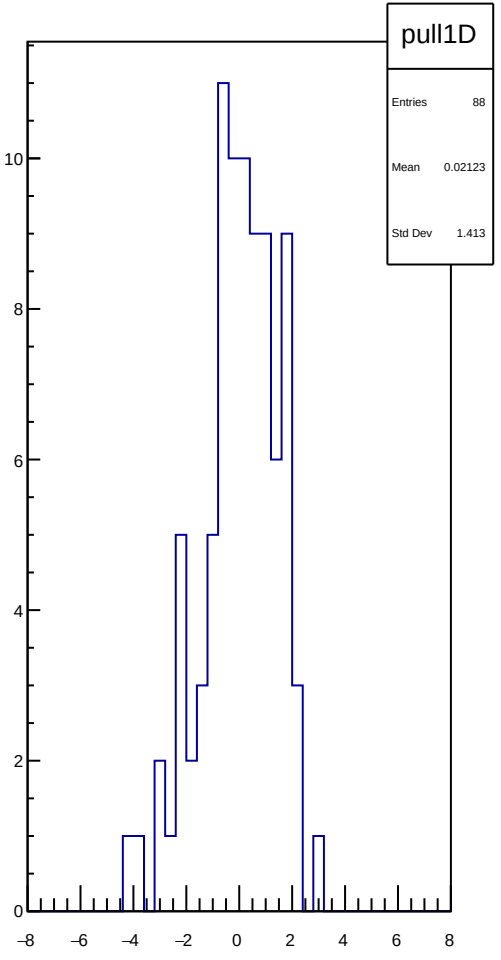

diff_bpm0l09Y_rms vs run
χ² / ndf 9.475e+04 / 87
p0 1213 ± 0.9676
4500
4000
3500
3000
2500
2000
1500
1000

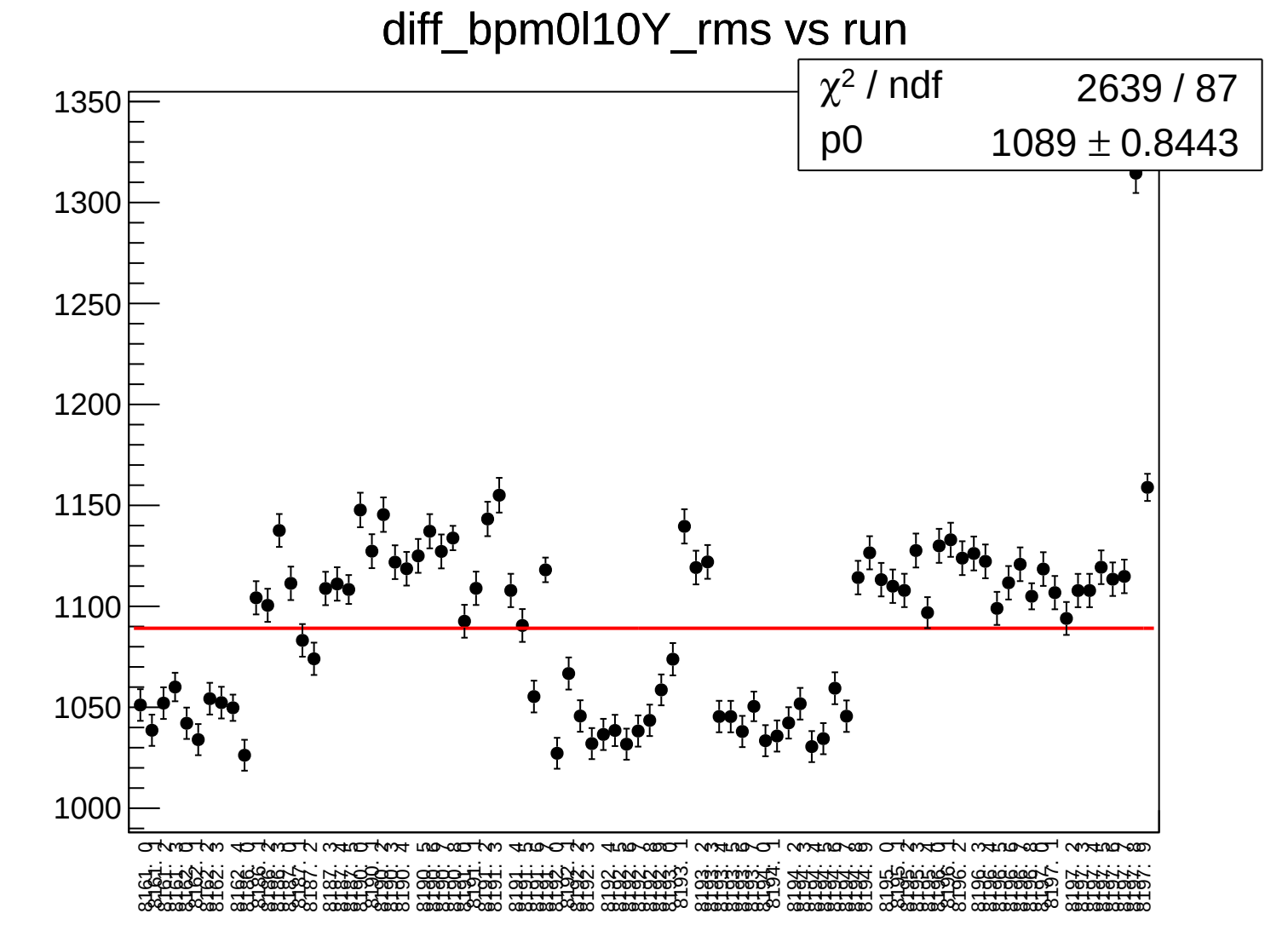

diff_bpm0l10X_mean vs run
χ² / ndf 73.17 / 87
p0 −81.6 ± 7.235
200
100
0
−100
−200
−300
pull
Entries 88
Mean 136.1
Std Dev 0
2
1
0
−1
−2

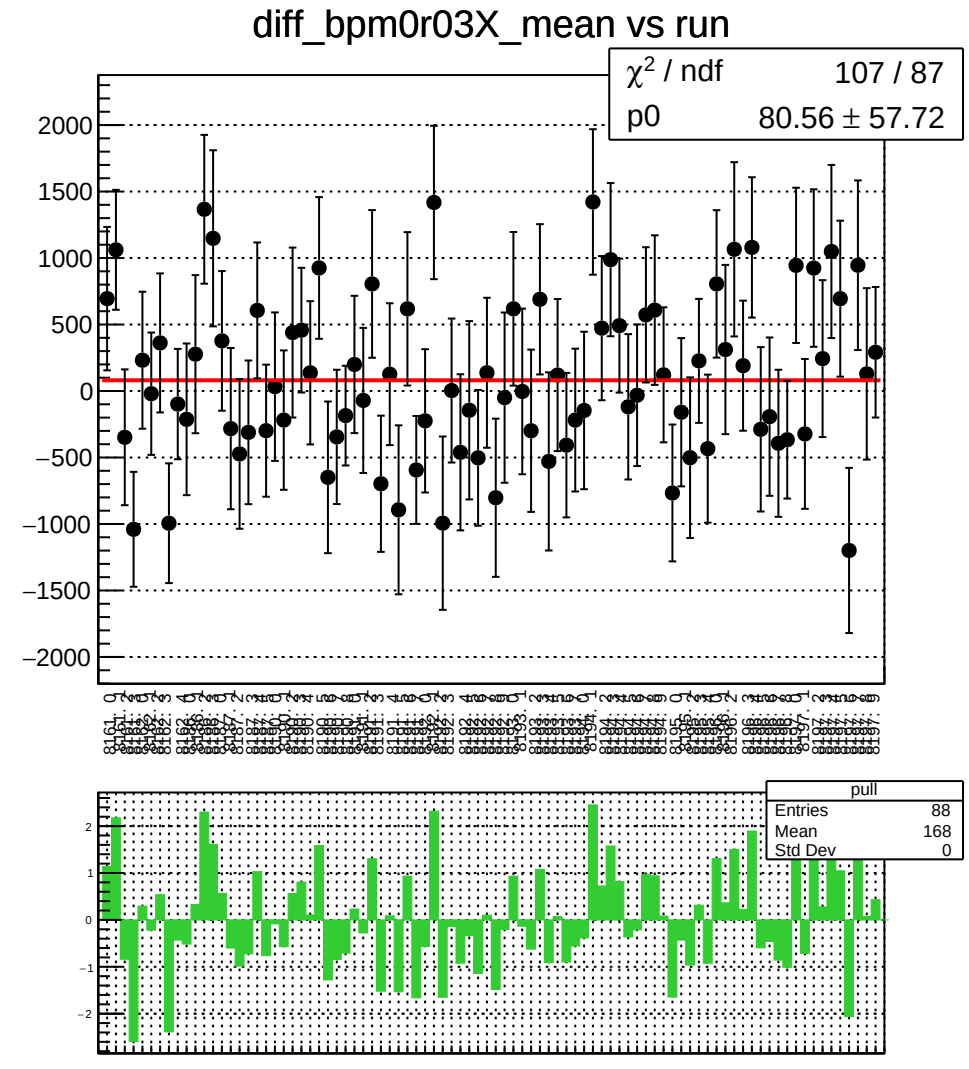

pull1D
Entries 88
Mean 0.008274
Std Dev 0.9118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

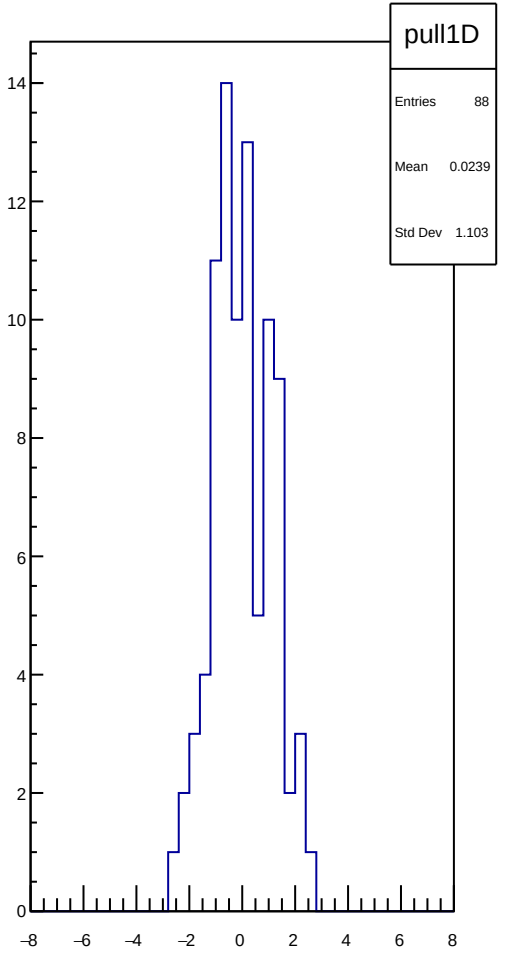

diff_bpm0l10X_rms vs run
χ^2 / ndf 7843 / 87
p0 6590 ± 5.116
9500
9000
8500
8000
7500
7000
6500
6000
5500


diff_bpm0l10Y_mean vs run
χ^2 / ndf 175.9 / 87
p0 −3.131± 1.194
pull
Entries 88
Mean 336.6
Std Dev 0

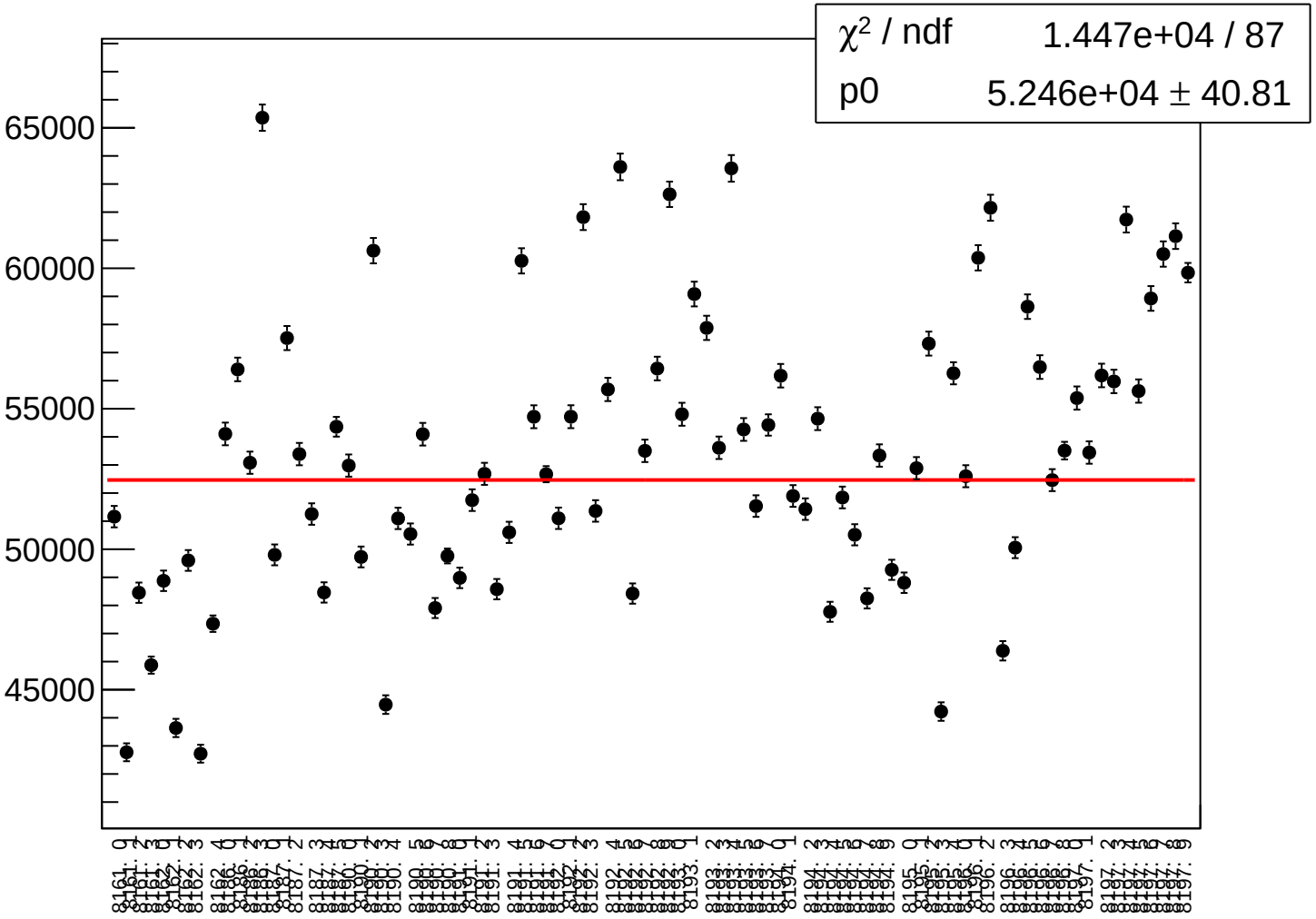

pull1D
Entries 88
Mean 0.02123
Std Dev 1.413

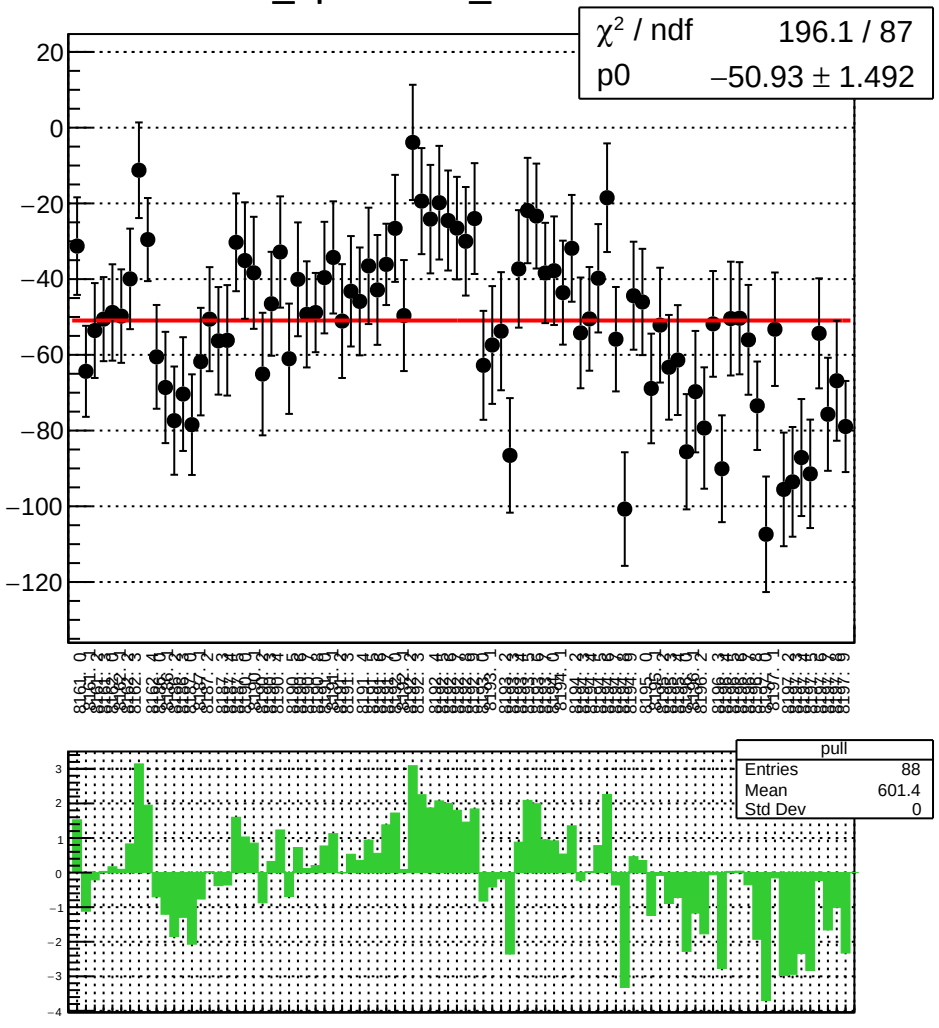

diff_bpm0l10Y_rms vs run
χ² / ndf 2639 / 87
p0 1089 ± 0.8443
1350
1300
1250
1200
1150
1100
1050
1000

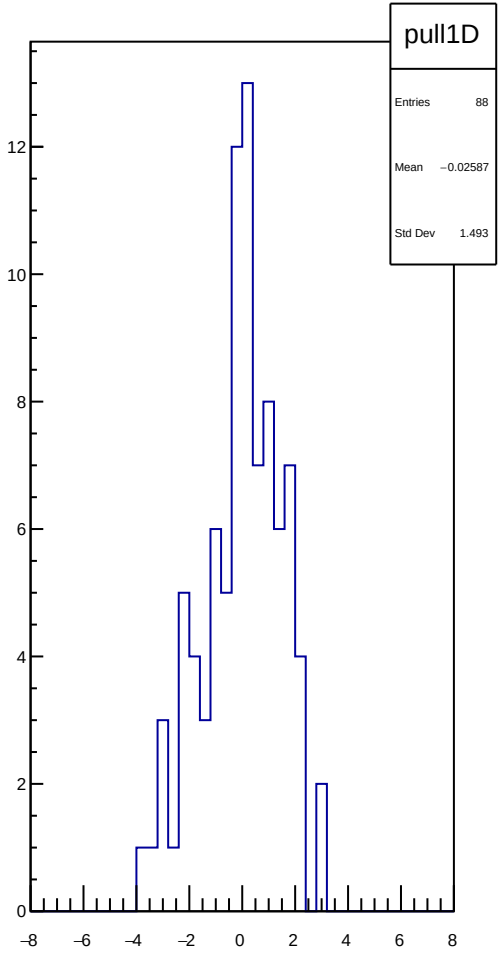

diff_bpm0r03X_mean vs run
χ² / ndf 107 / 87
p0 80.56 ± 57.72
pull
Entries 88
Mean 168
Std Dev 0

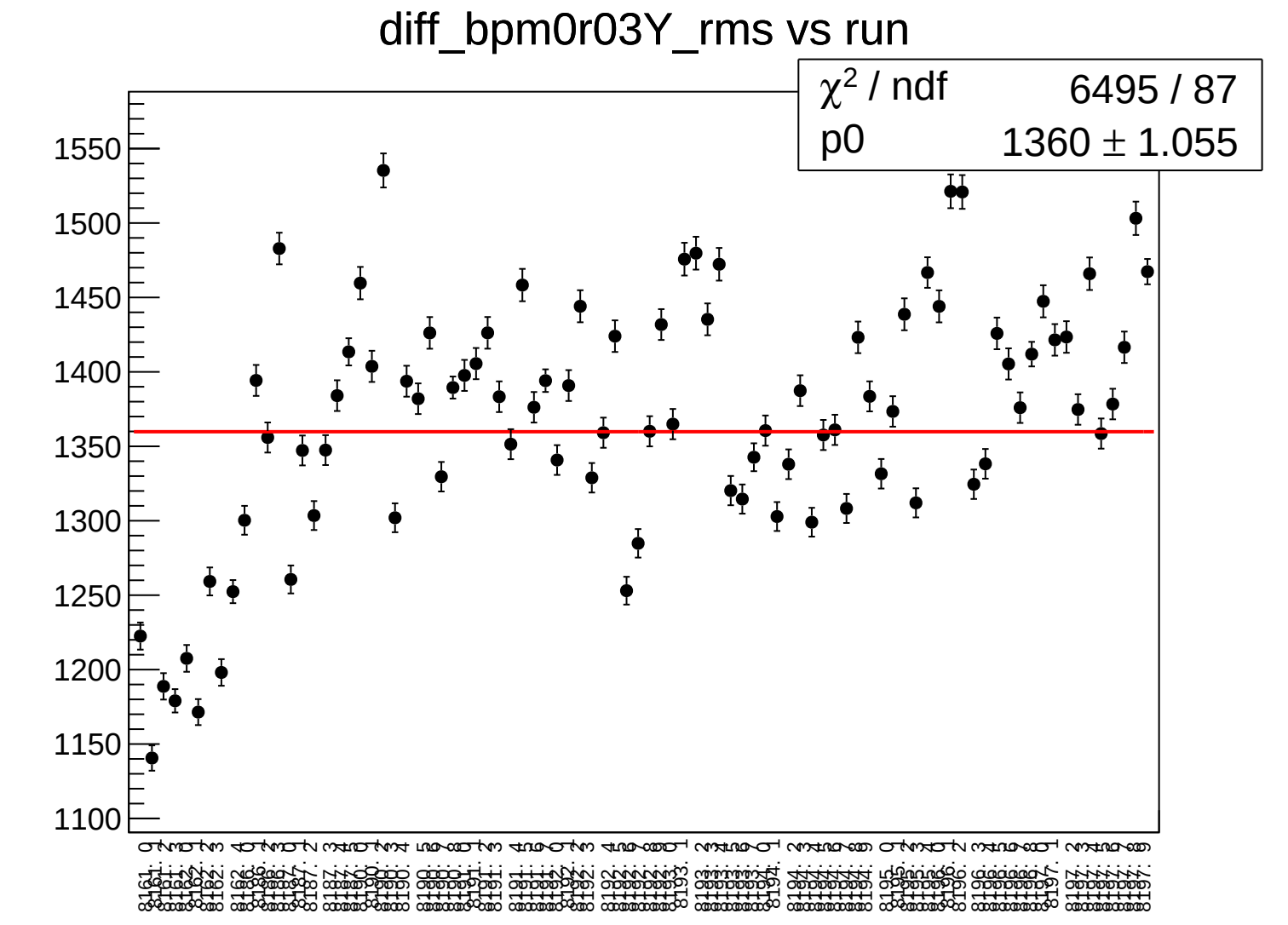

pull1D
Entries 88
Mean 0.0239
Std Dev 1.103

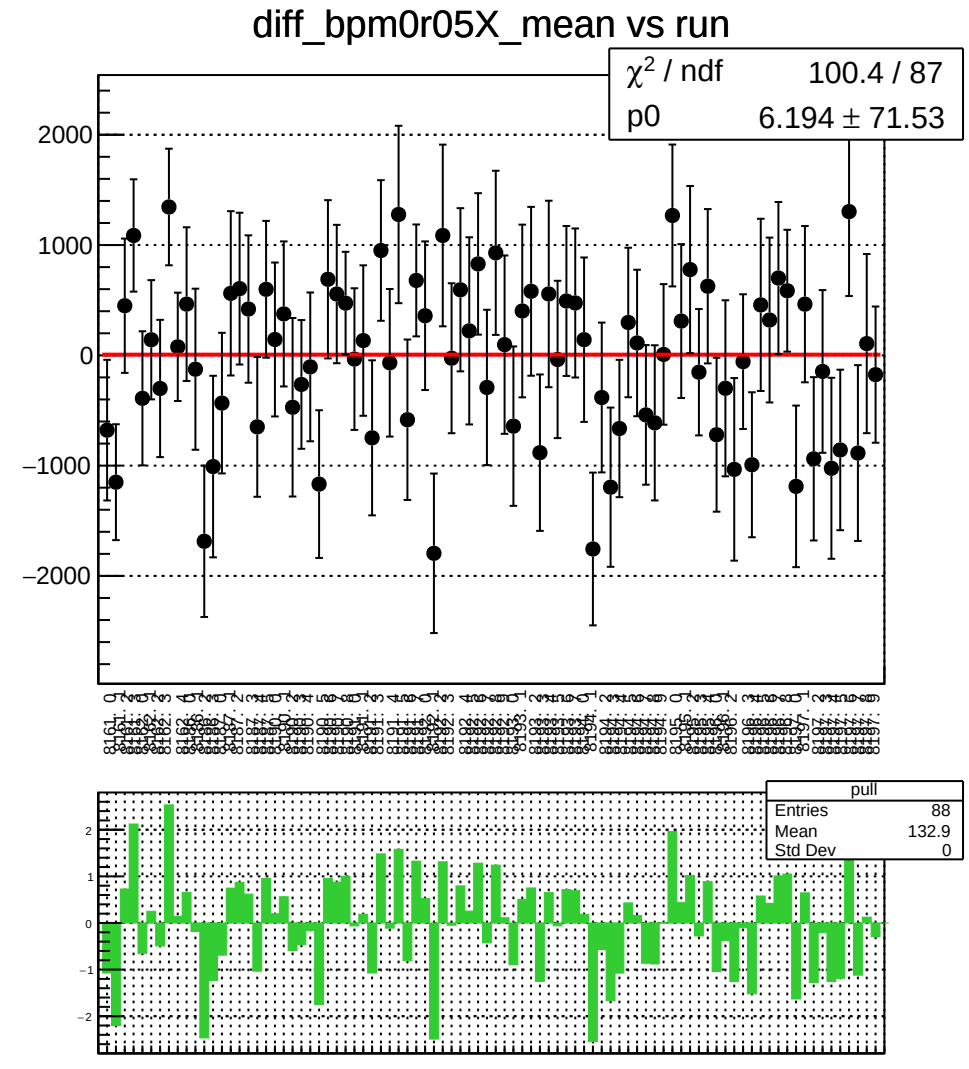
diff_bpm0r03X_rms vs run

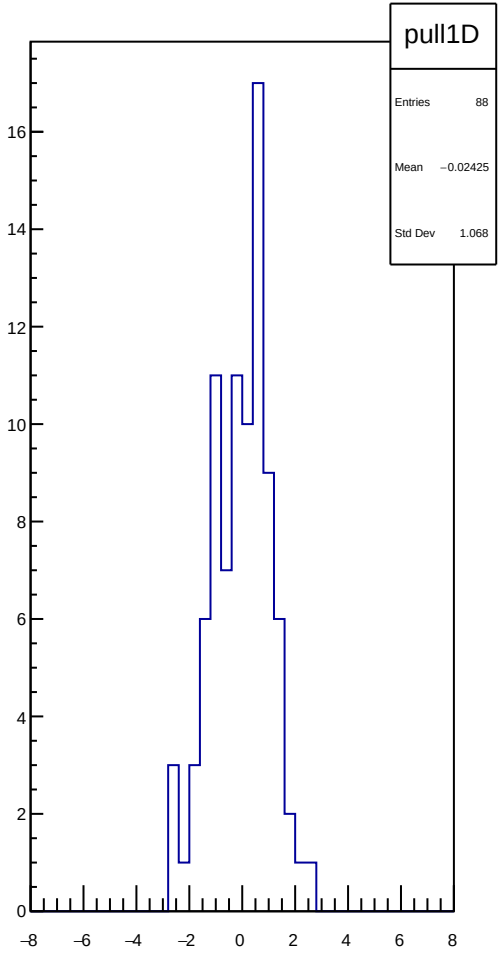


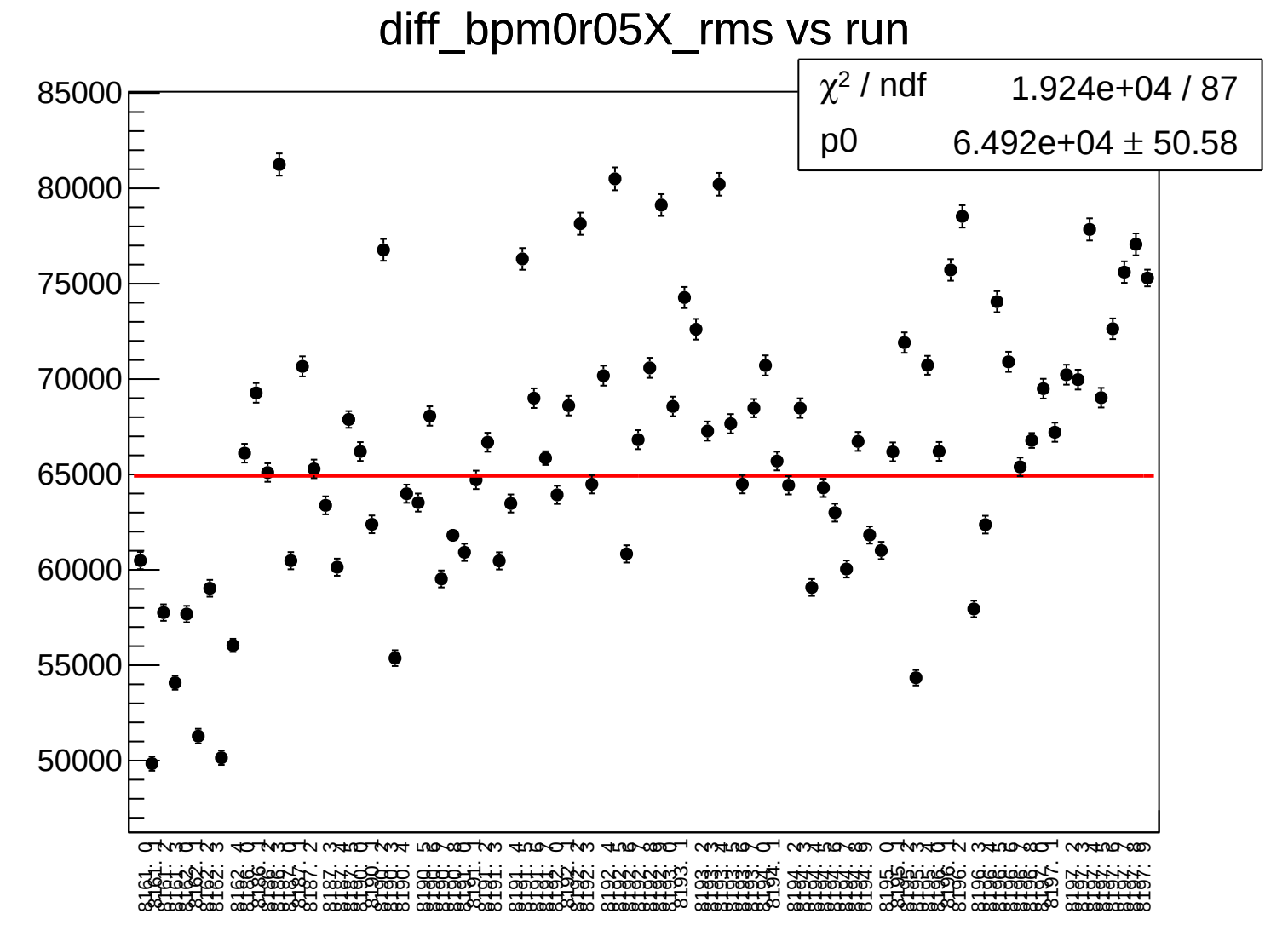

diff_bpm0r03Y_mean vs run
χ² / ndf 196.1 / 87
p0 −50.93 ± 1.492
pull
Entries 88
Mean 601.4
Std Dev 0

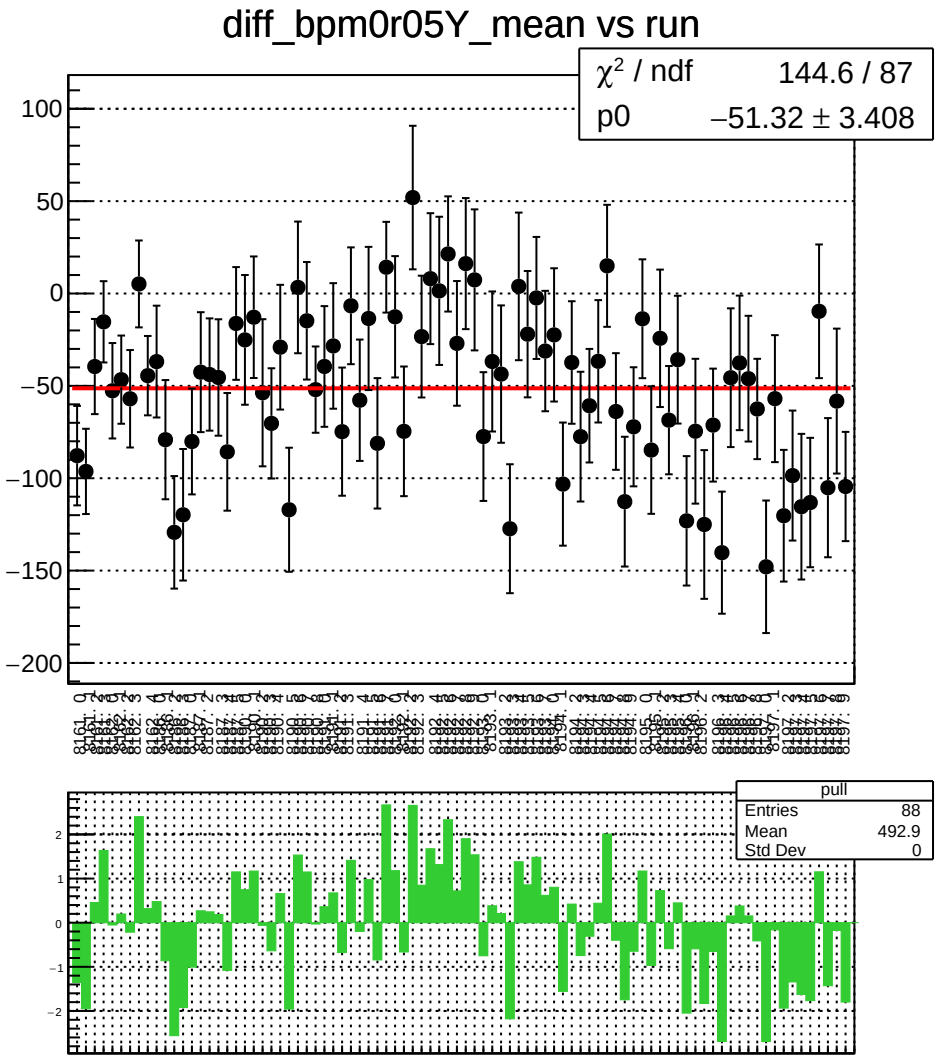

pull1D
Entries 88
Mean −0.02587
Std Dev 1.493

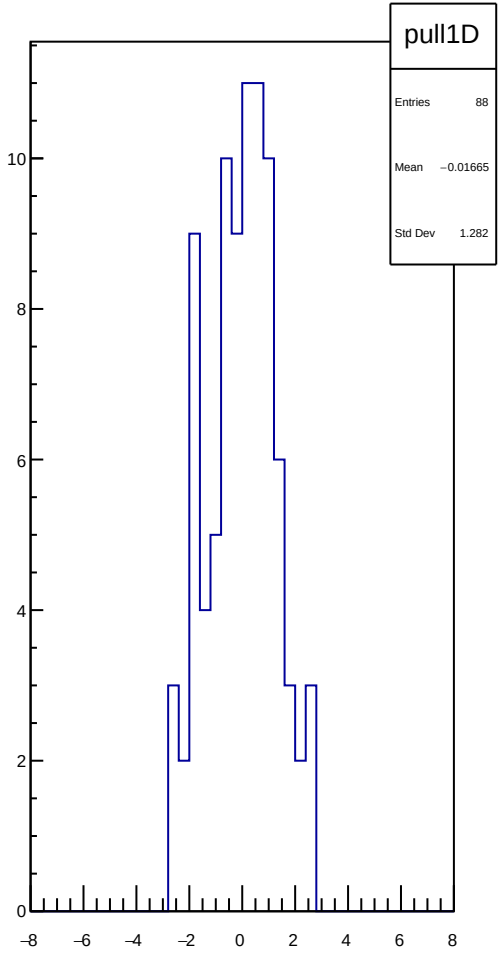

diff_bpm0r03Y_rms vs run
χ² / ndf 6495 / 87
p0 1360 ± 1.055
1550
1500
1450
1400
1350
1300
1250
1200
1150
1100

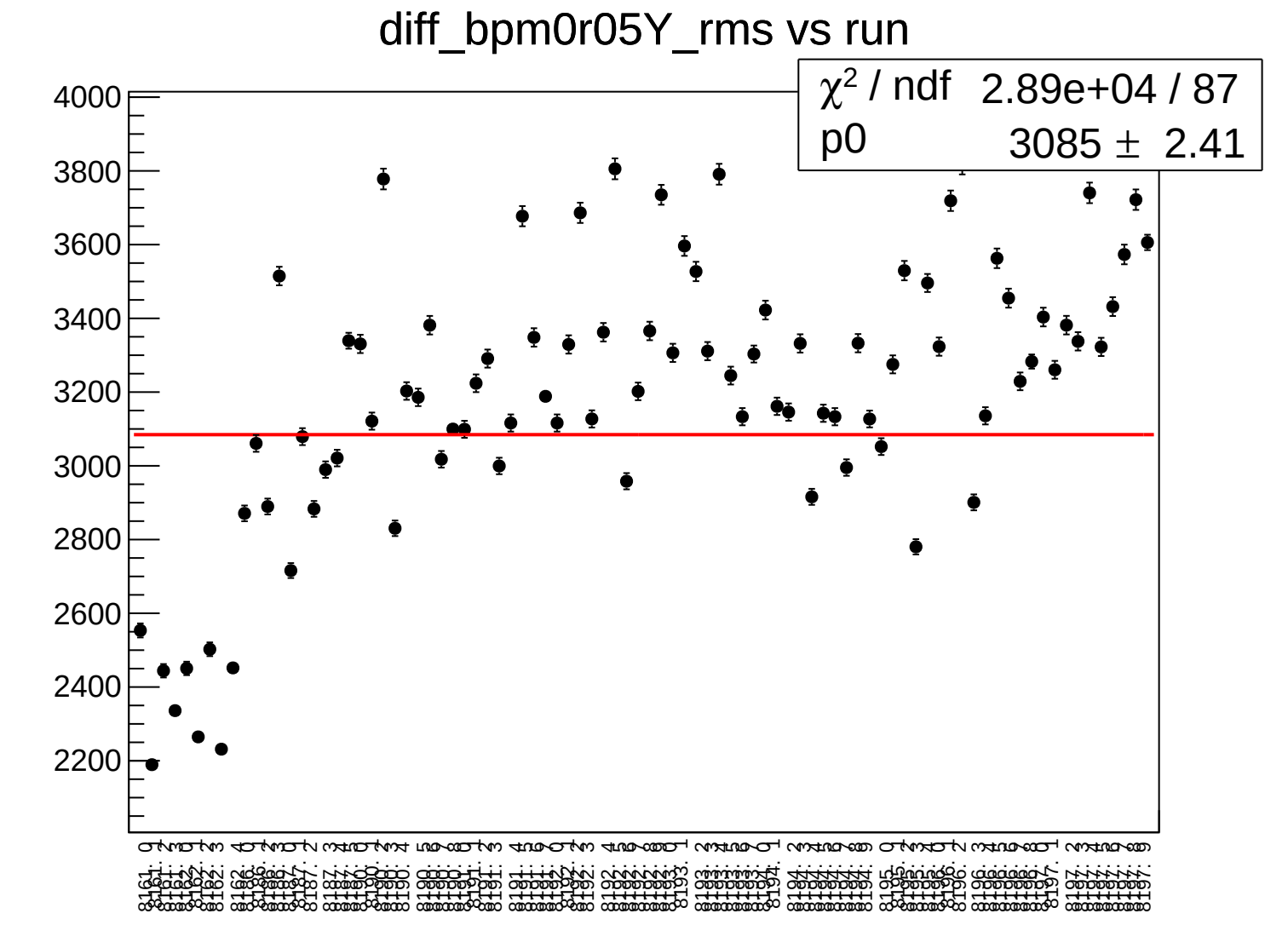

diff_bpm0r05X_mean vs run
χ^2 / ndf 100.4 / 87
p0 6.194 ± 71.53
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 132.9
Std Dev 0
2
1
0
−1
−2

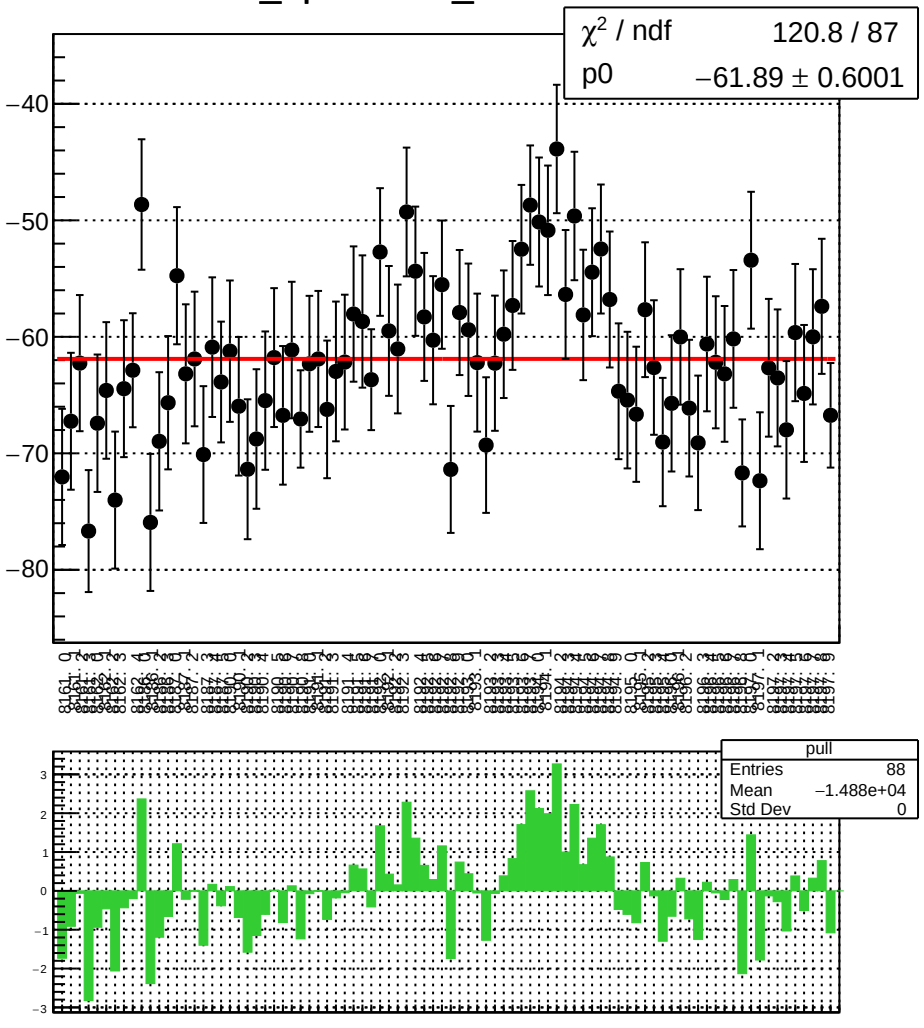

pull1D
Entries 88
Mean −0.02425
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

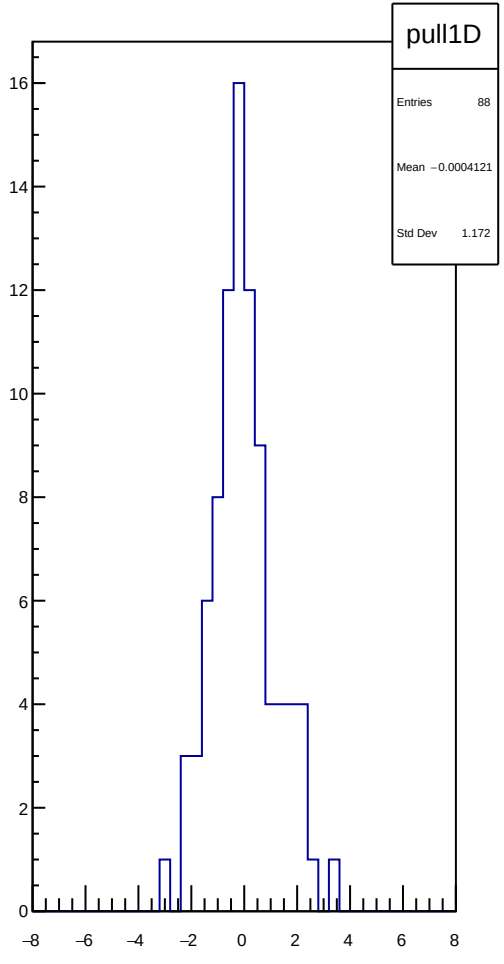

diff_bpm0r05X_rms vs run
χ² / ndf 1.924e+04 / 87
p0 6.492e+04 ± 50.58
85000
80000
75000
70000
65000
60000
55000
50000

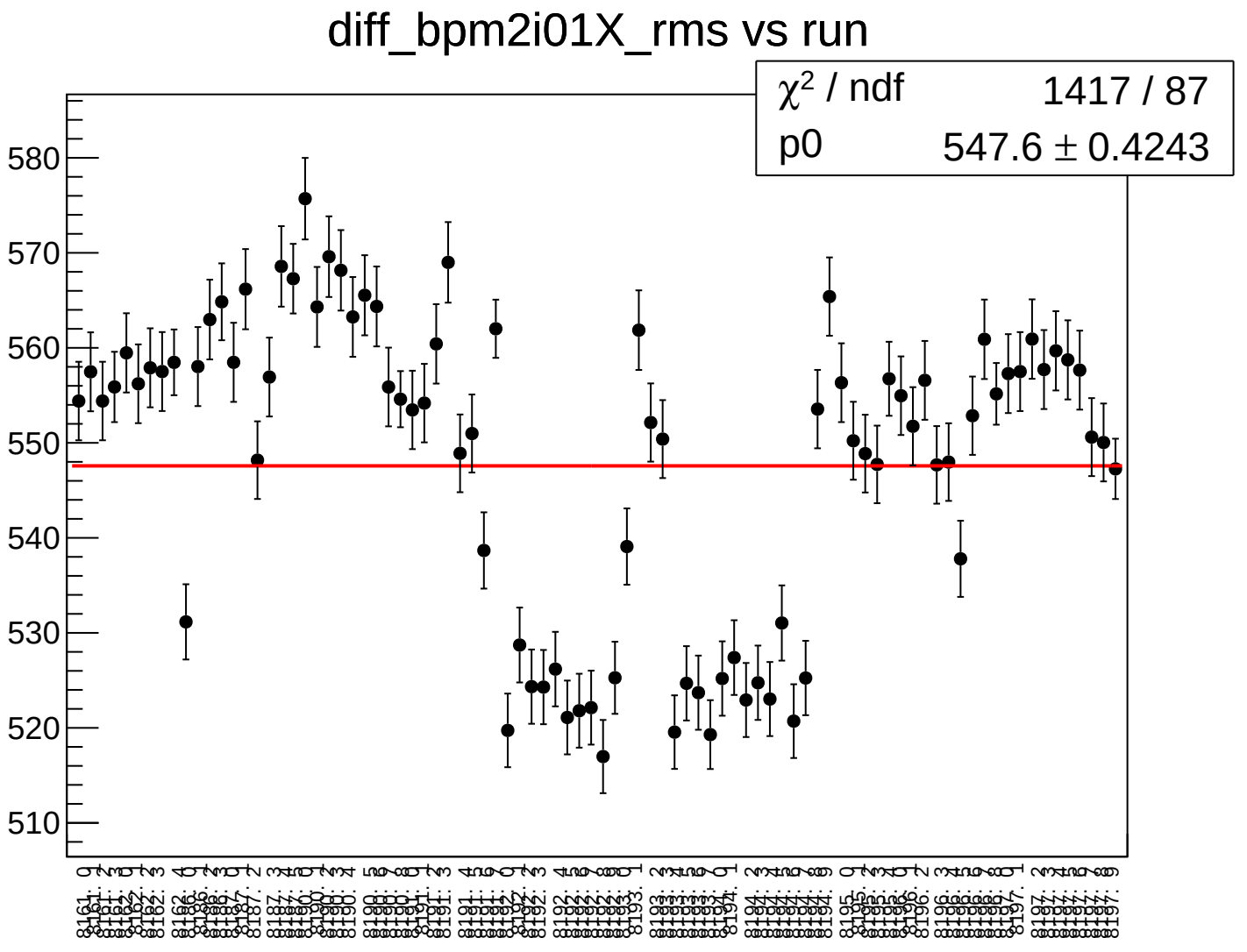

diff_bpm0r05Y_mean vs run
χ² / ndf 144.6 / 87
p0 −51.32 ± 3.408
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 492.9
Std Dev 0
2
1
0
−1
−2

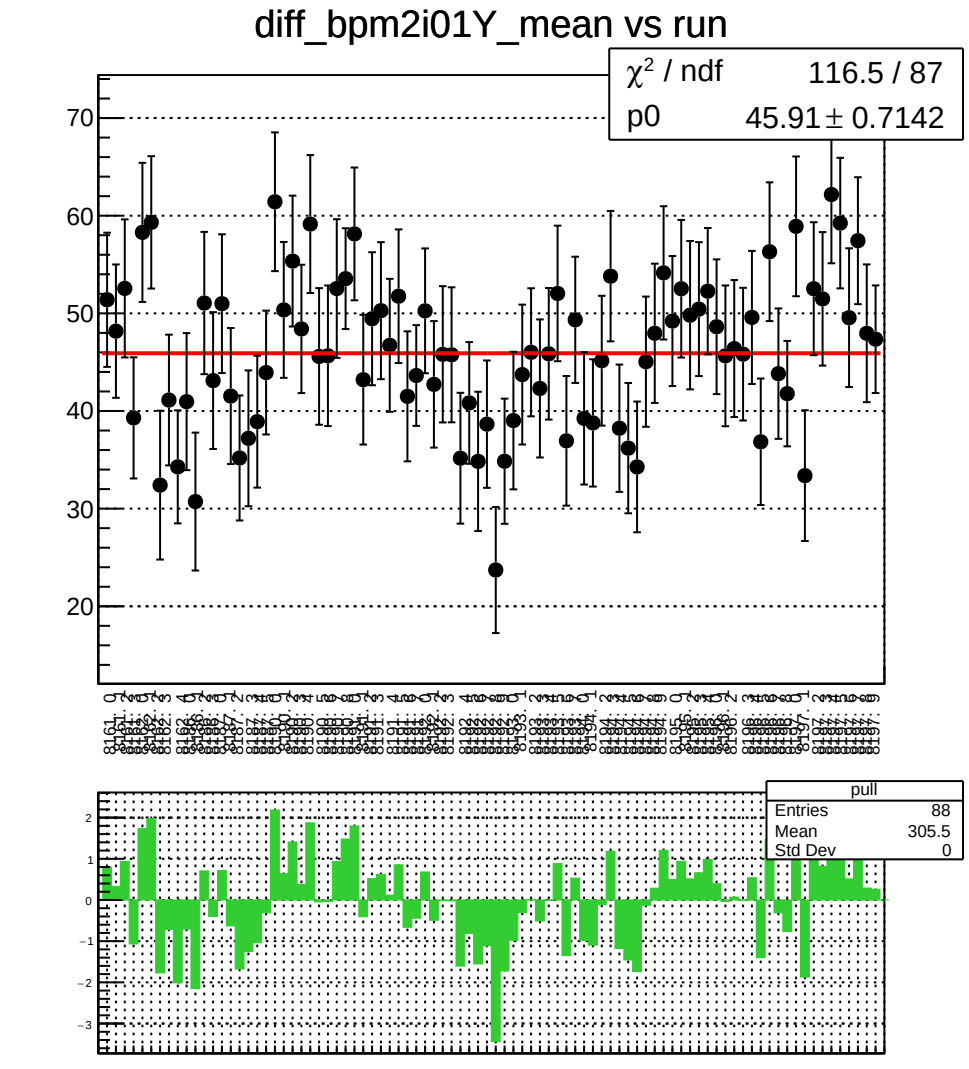

pull1D
Entries 88
Mean −0.01665
Std Dev 1.282
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

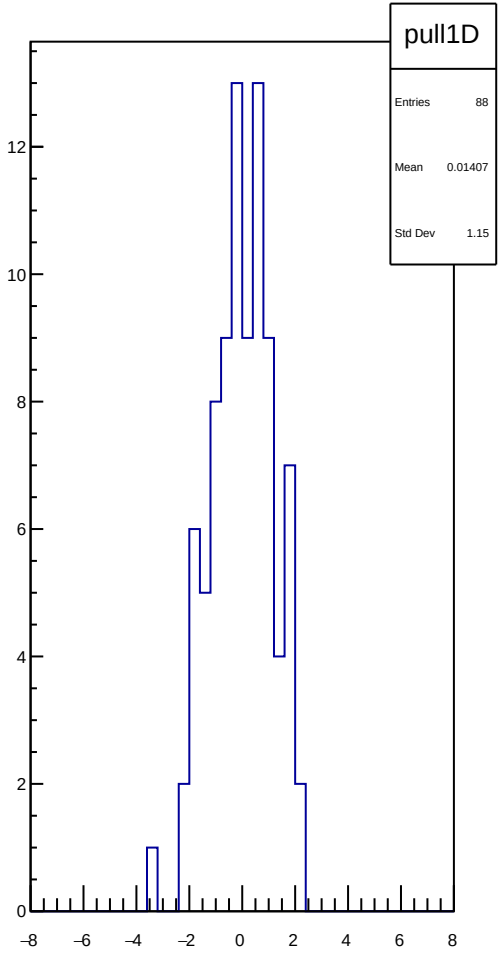

diff_bpm0r05Y_rms vs run
χ² / ndf 2.89e+04 / 87
p0 3085 ± 2.41
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

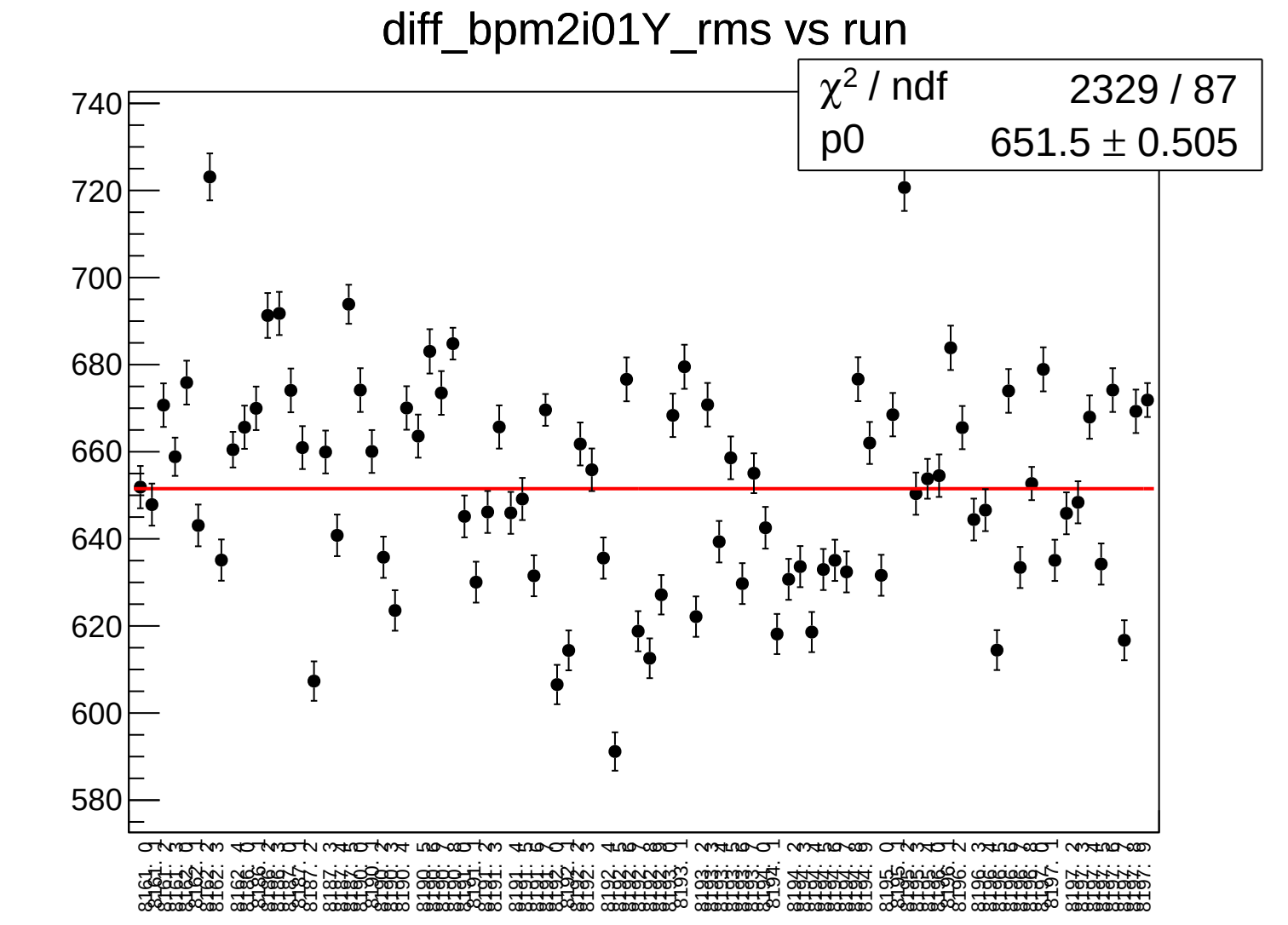

diff_bpm2i01X_mean vs run
χ² / ndf 120.8 / 87
p0 −61.89 ± 0.6001
−40
−50
−60
−70
−80
pull
Entries 88
Mean −1.488e+04
Std Dev 0
3
2
1
0
−1
−2
−3

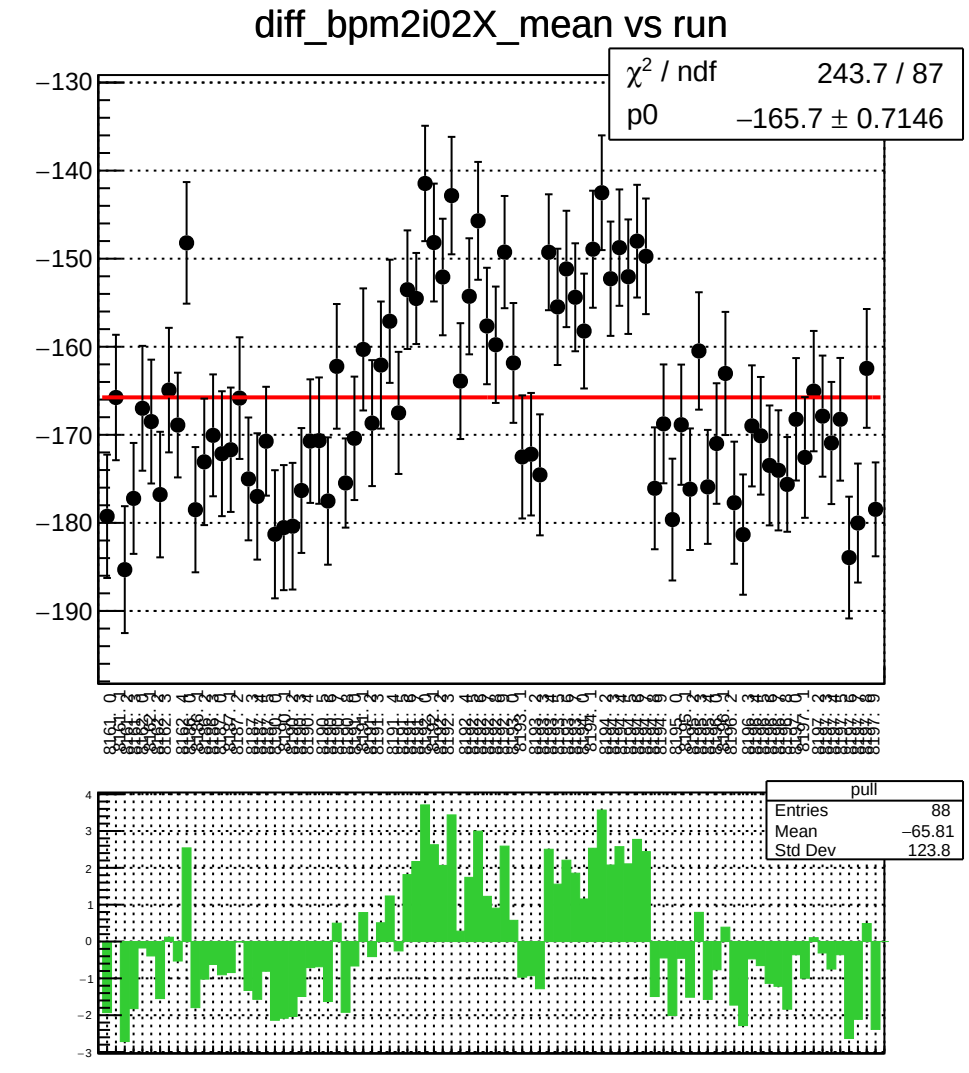

pull1D
Entries 88
Mean −0.0004121
Std Dev 1.172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

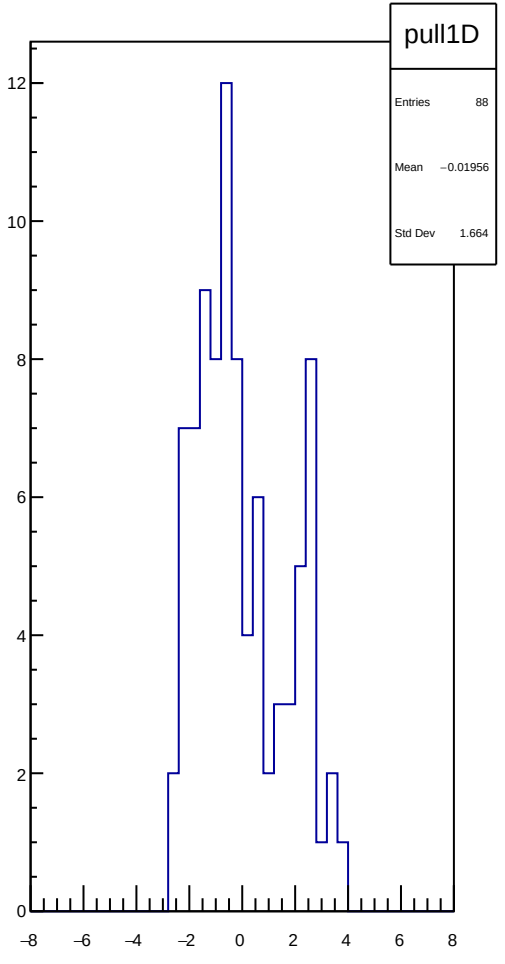

diff_bpm2i01X_rms vs run
χ² / ndf 1417 / 87
p0 547.6 ± 0.4243
580
570
560
550
540
530
520
510

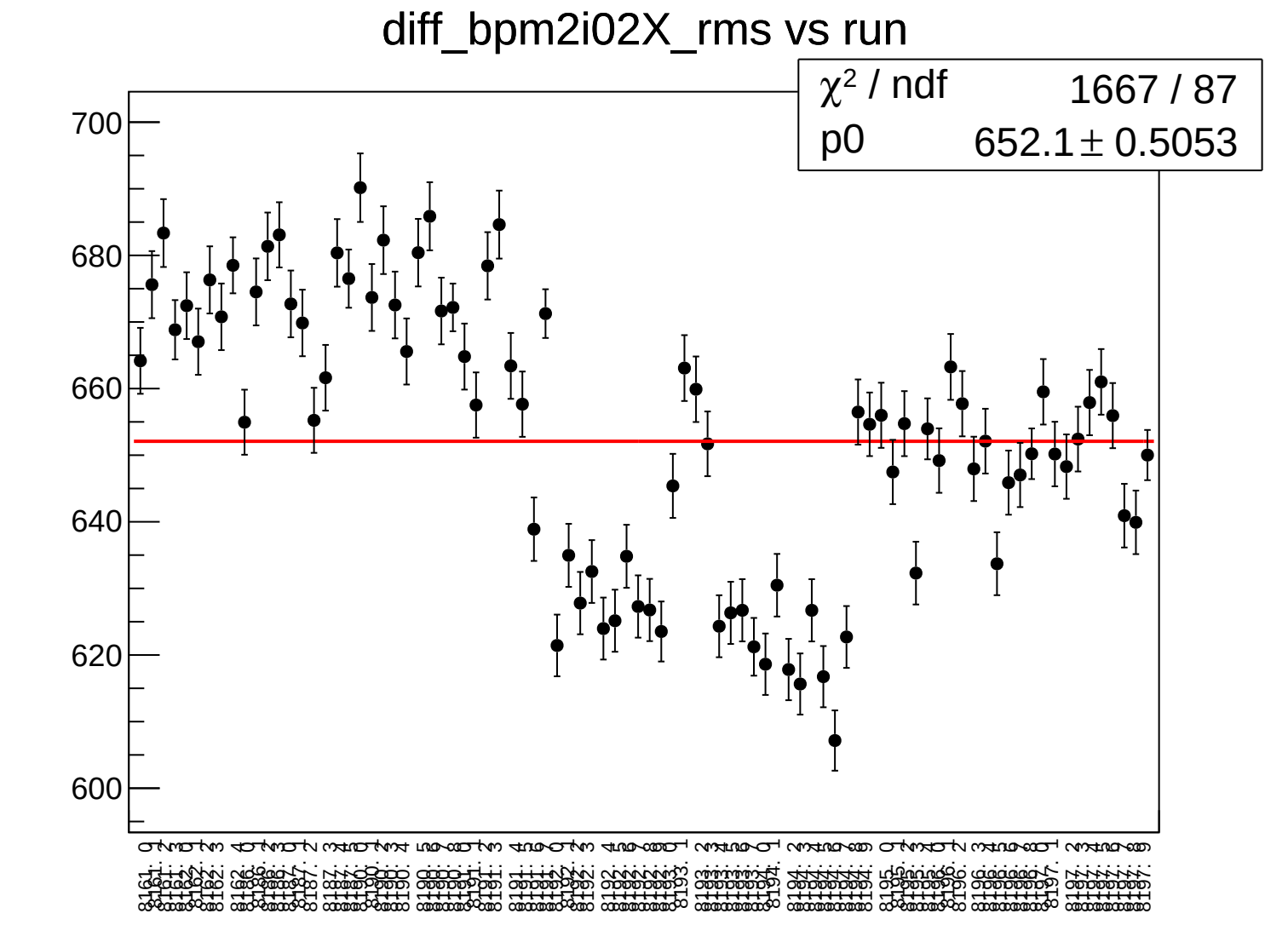

diff_bpm2i01Y_mean vs run
χ^2 / ndf 116.5 / 87
p0 45.91 ± 0.7142
pull
Entries 88
Mean 305.5
Std Dev 0

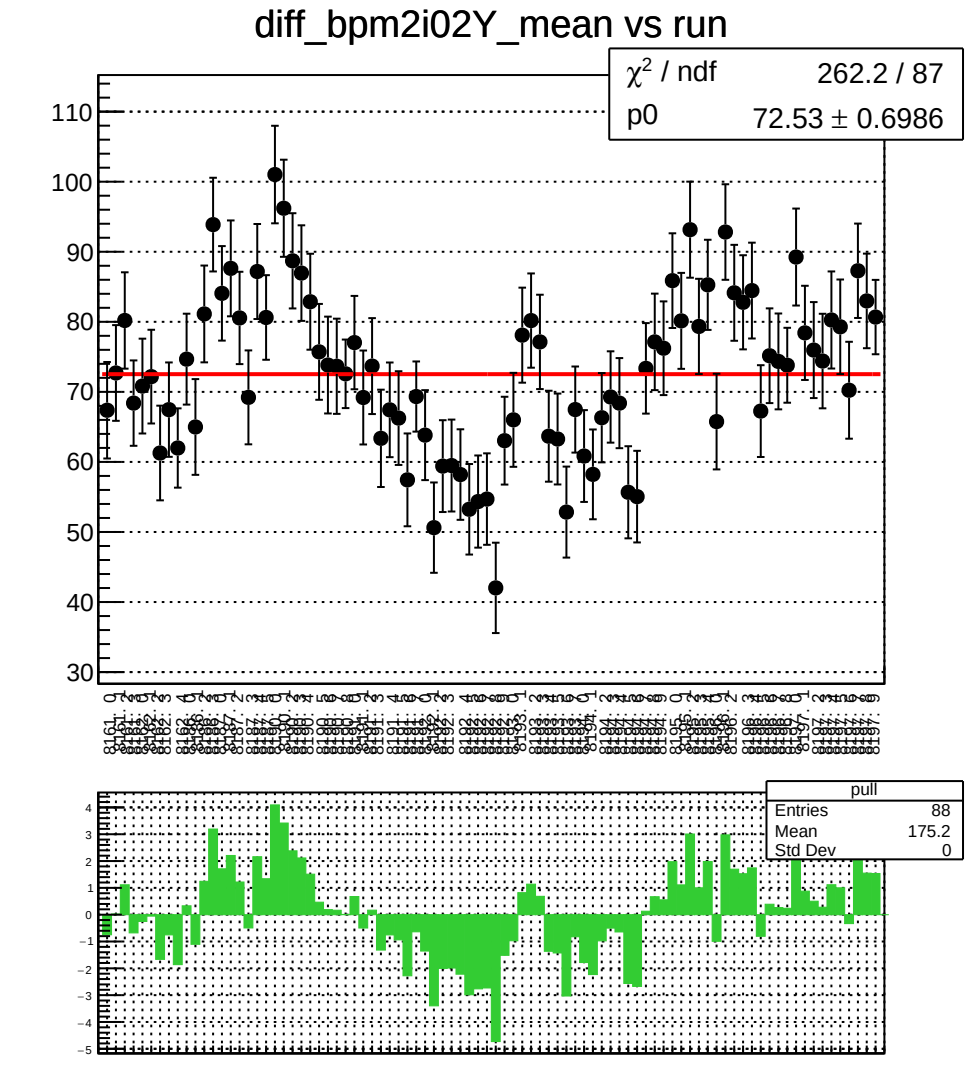

pull1D
Entries 88
Mean 0.01407
Std Dev 1.15

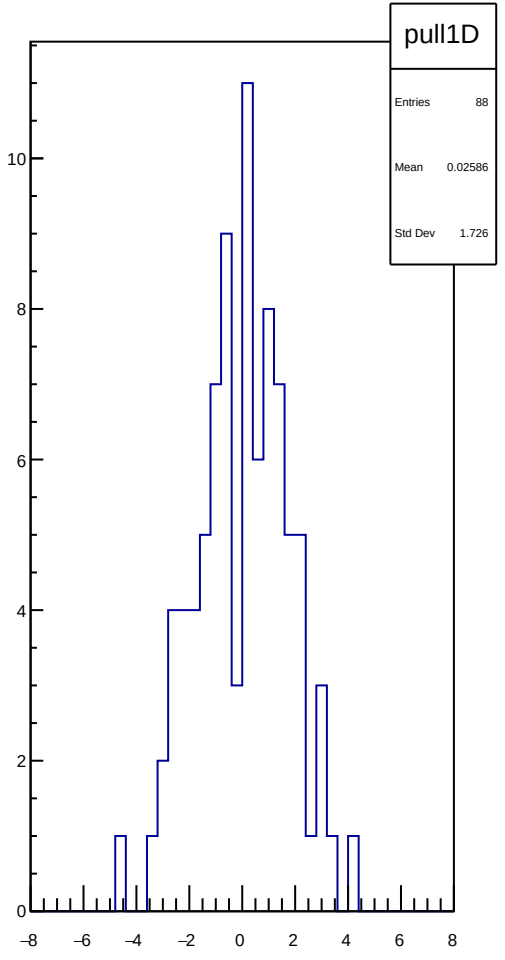

diff_bpm2i01Y_rms vs run
χ² / ndf 2329 / 87
p0 651.5 ± 0.505
740
720
700
680
660
640
620
600
580

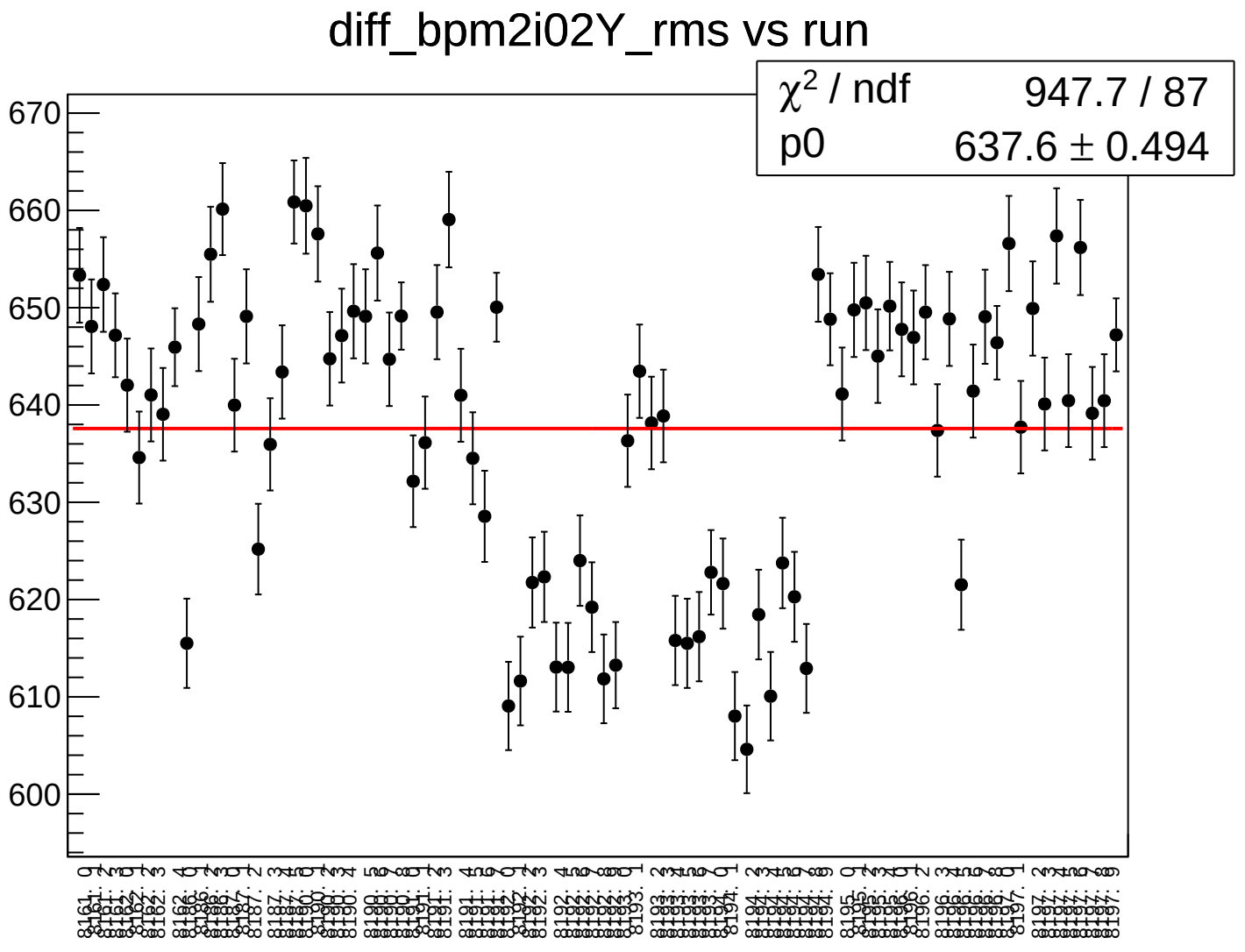

diff_bpm2i02X_mean vs run
χ² / ndf 243.7 / 87
p0 −165.7 ± 0.7146
pull
Entries 88
Mean −65.81
Std Dev 123.8

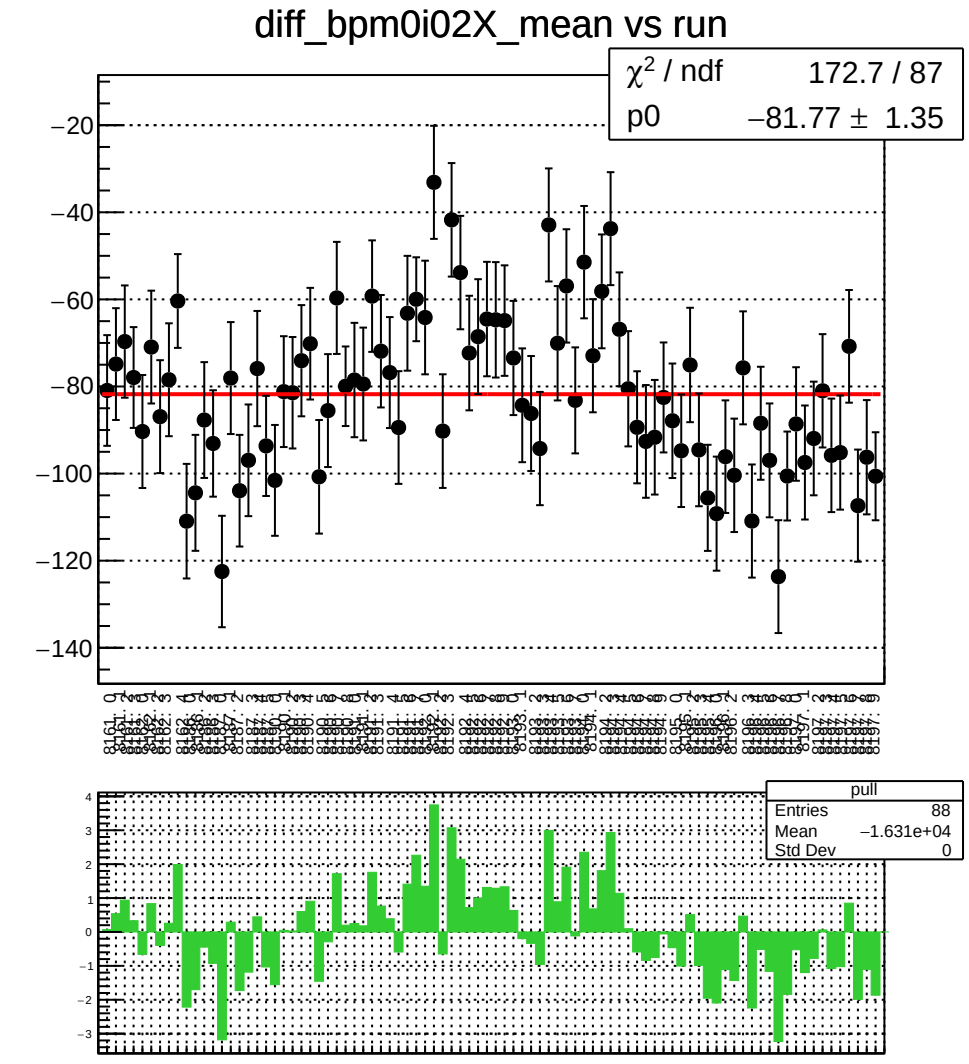

pull1D
Entries 88
Mean −0.01956
Std Dev 1.664

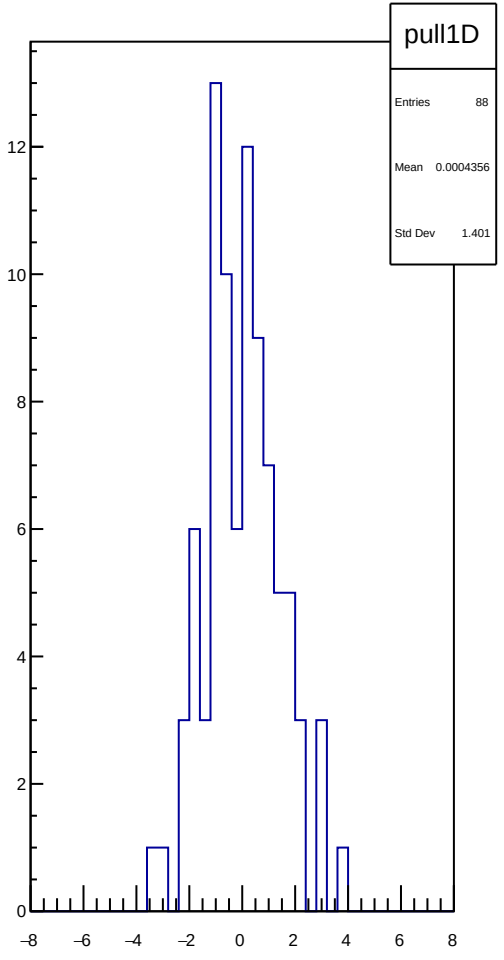

diff_bpm2i02X_rms vs run
χ² / ndf 1667 / 87
p0 652.1 ± 0.5053
700
680
660
640
620
600


diff_bpm2i02Y_mean vs run
χ² / ndf 262.2 / 87
p0 72.53 ± 0.6986
pull
Entries 88
Mean 175.2
Std Dev 0

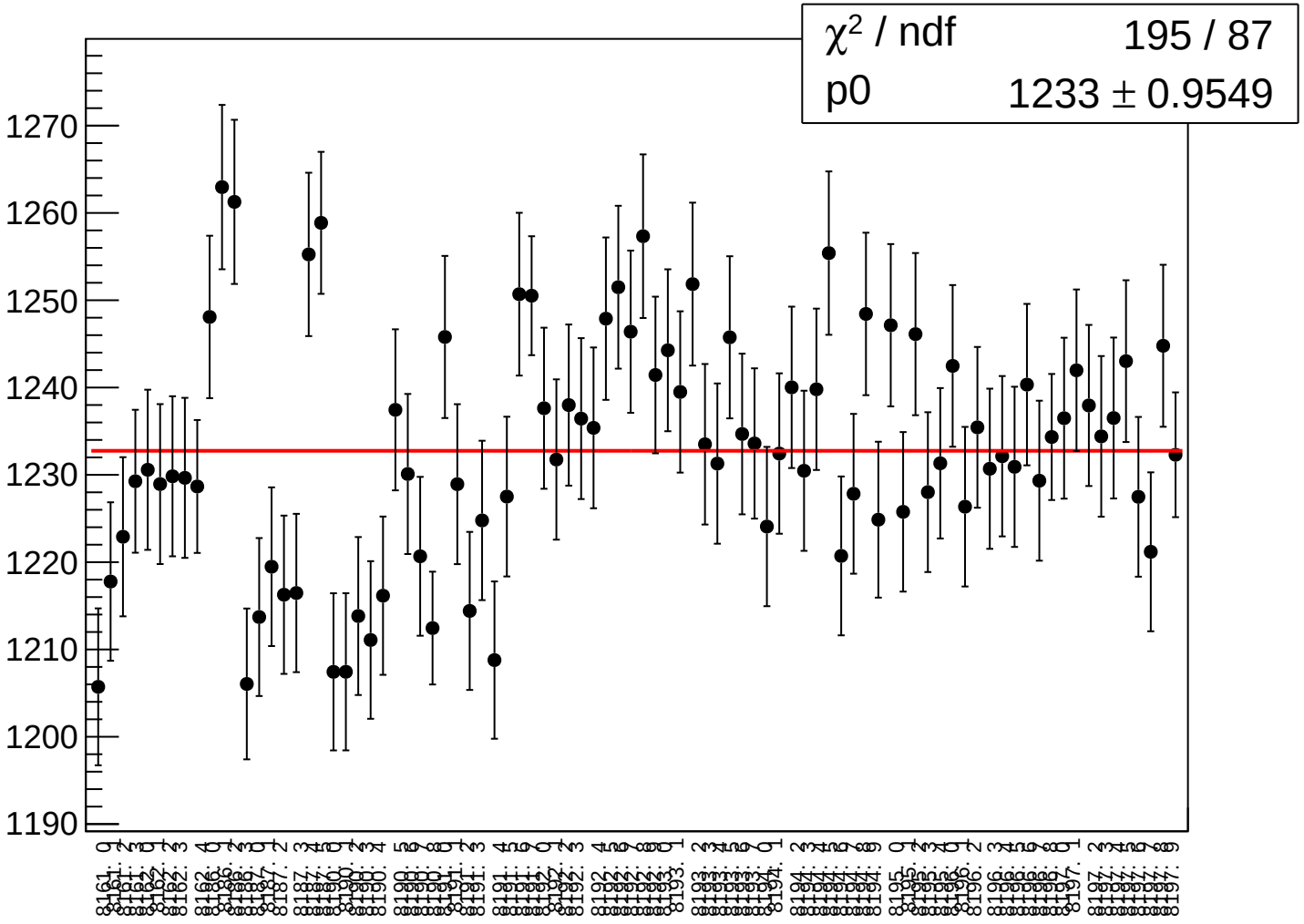

pull1D
Entries 88
Mean 0.02586
Std Dev 1.726

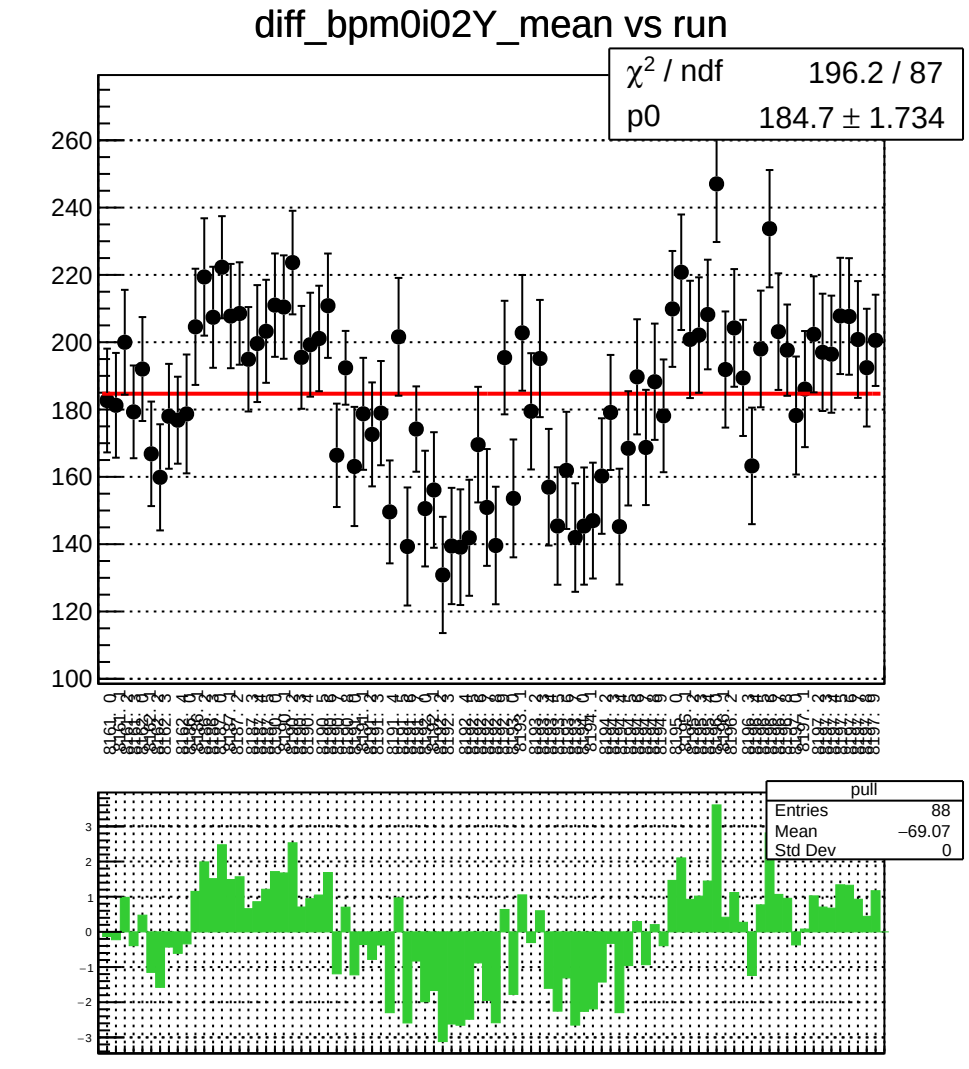

diff_bpm2i02Y_rms vs run
χ^2 / ndf 947.7 / 87
p0 637.6 ± 0.494
670
660
650
640
630
620
610
600

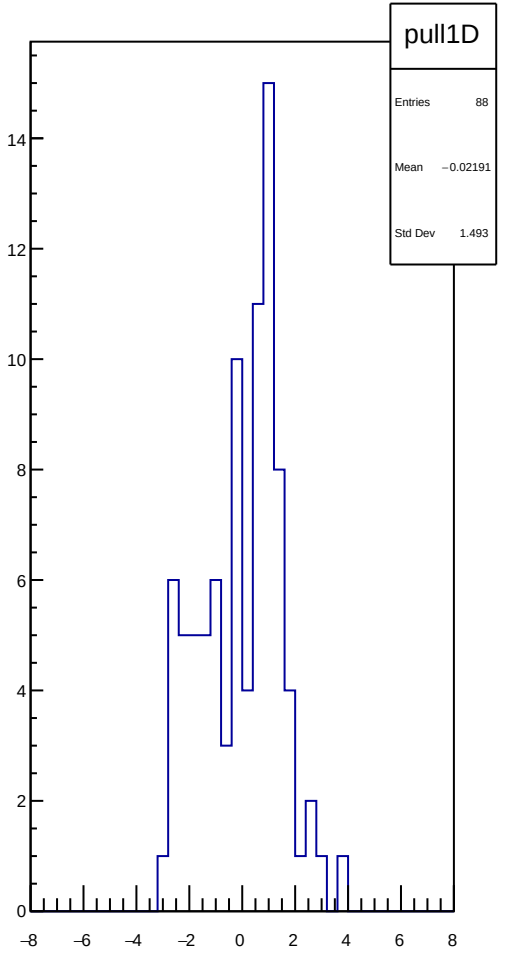

diff_bpm0i02X_mean vs run
χ² / ndf 172.7 / 87
p0 −81.77 ± 1.35
pull
Entries 88
Mean −1.631e+04
Std Dev 0

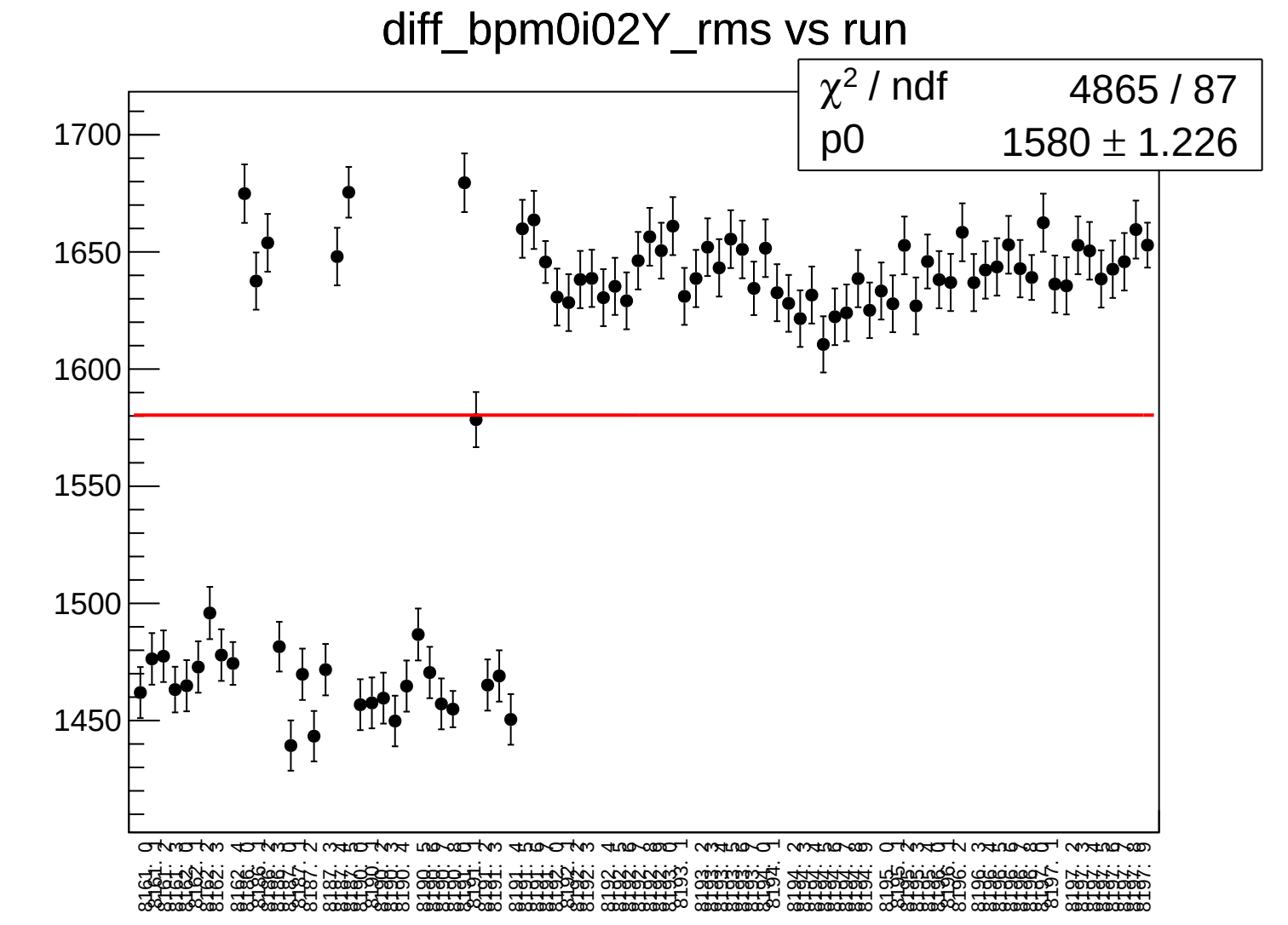

pull1D
Entries 88
Mean 0.0004356
Std Dev 1.401

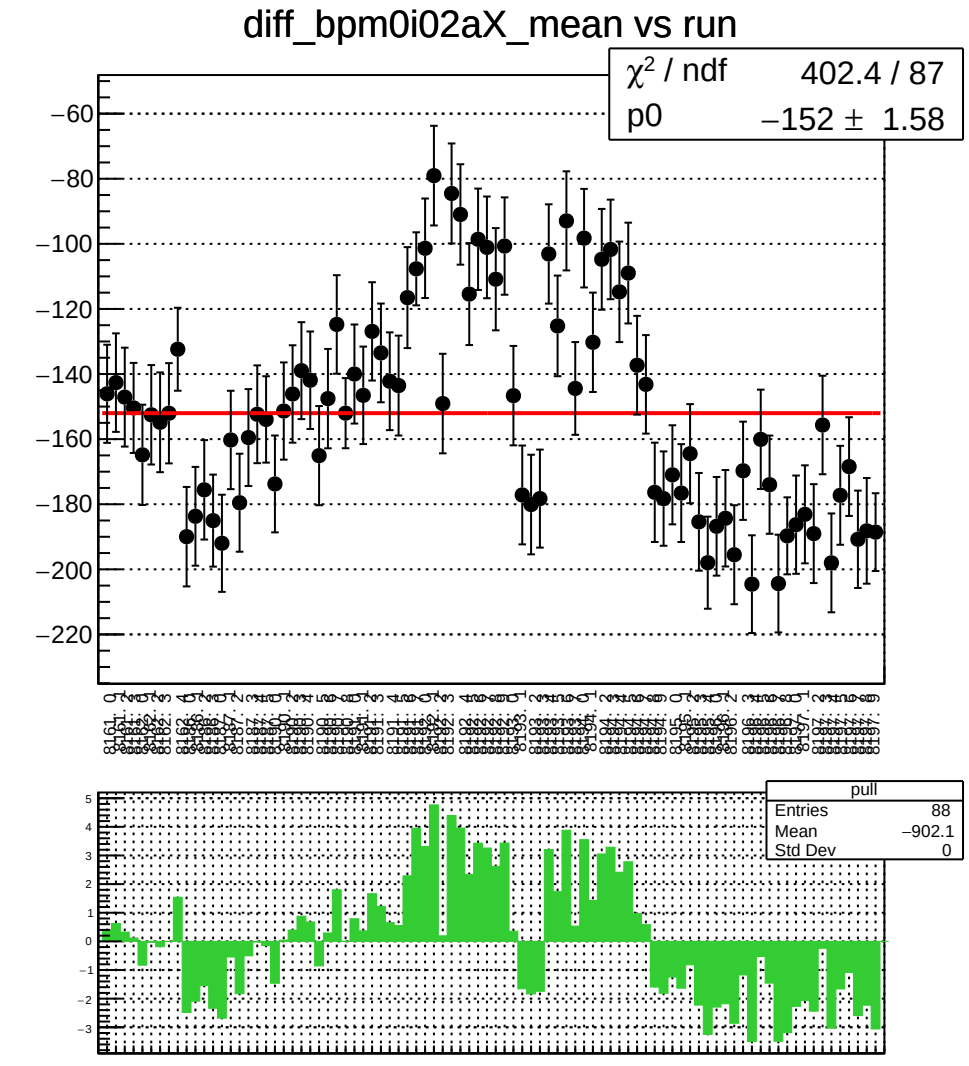
diff_bpm0i02X_rms vs run

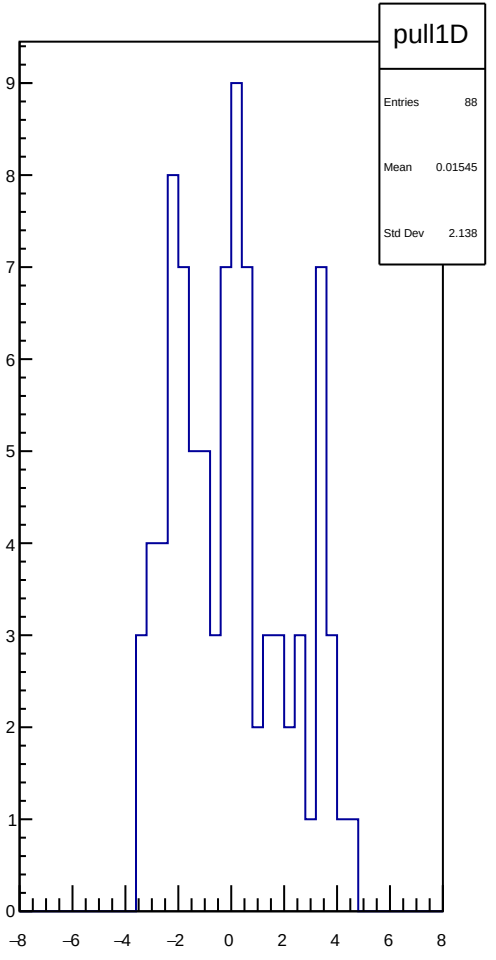


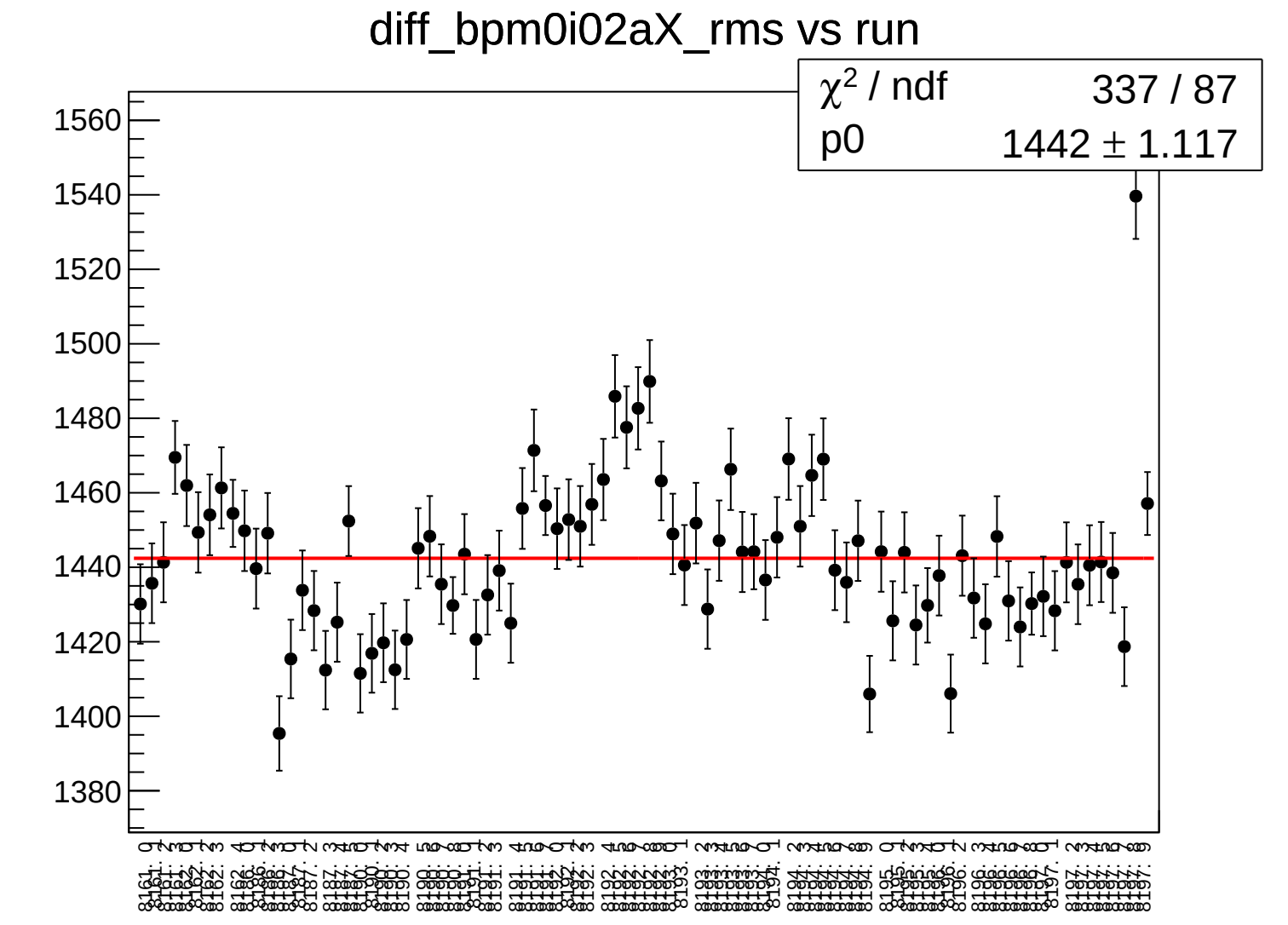

diff_bpm0i02Y_mean vs run
χ² / ndf 196.2 / 87
p0 184.7 ± 1.734
pull
Entries 88
Mean −69.07
Std Dev 0

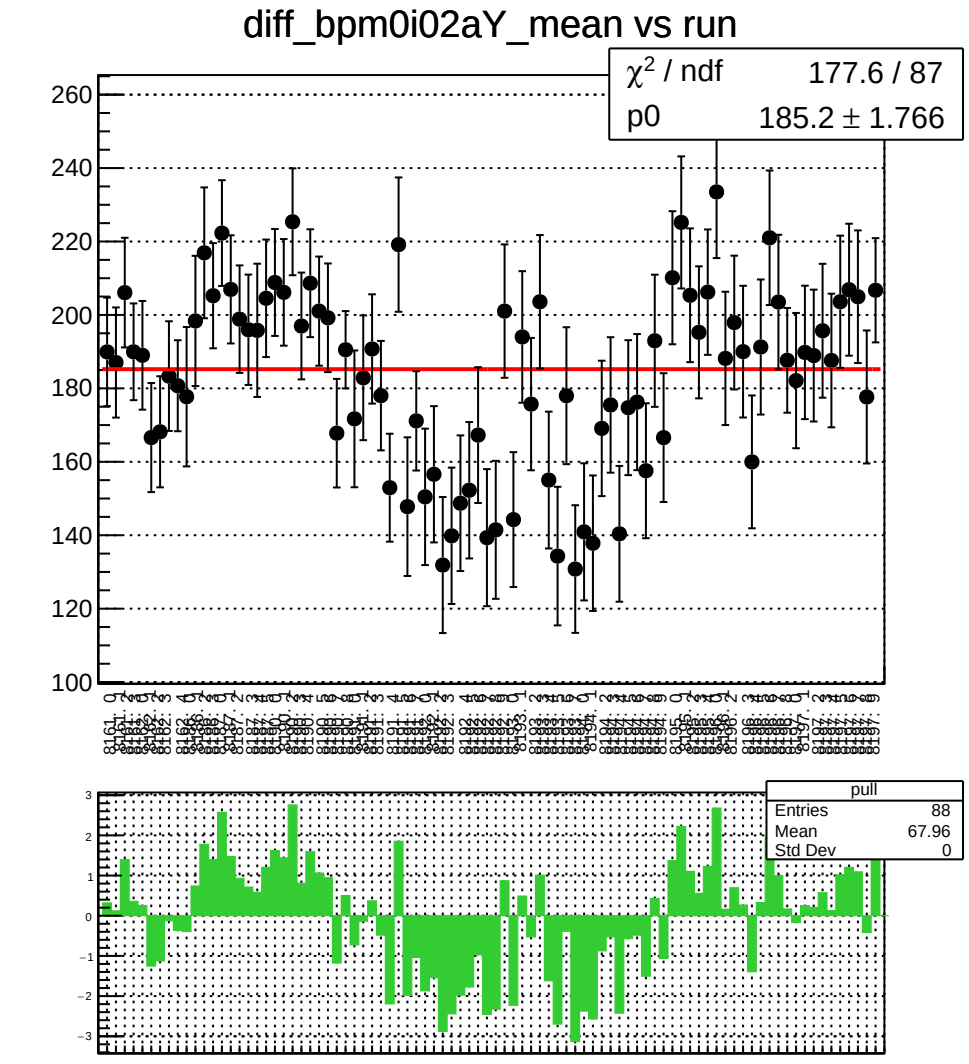

pull1D
Entries 88
Mean −0.02191
Std Dev 1.493

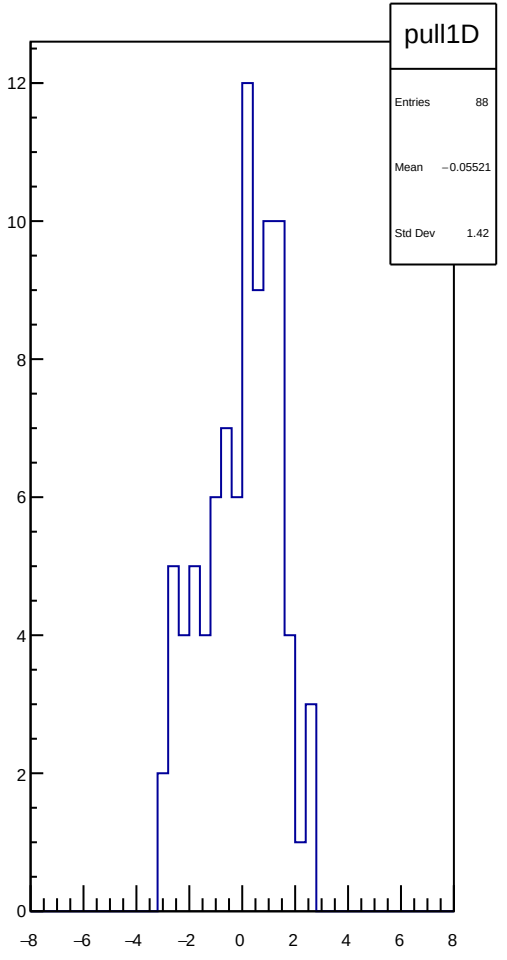

diff_bpm0i02Y_rms vs run
χ² / ndf 4865 / 87
p0 1580 ± 1.226
1700
1650
1600
1550
1500
1450

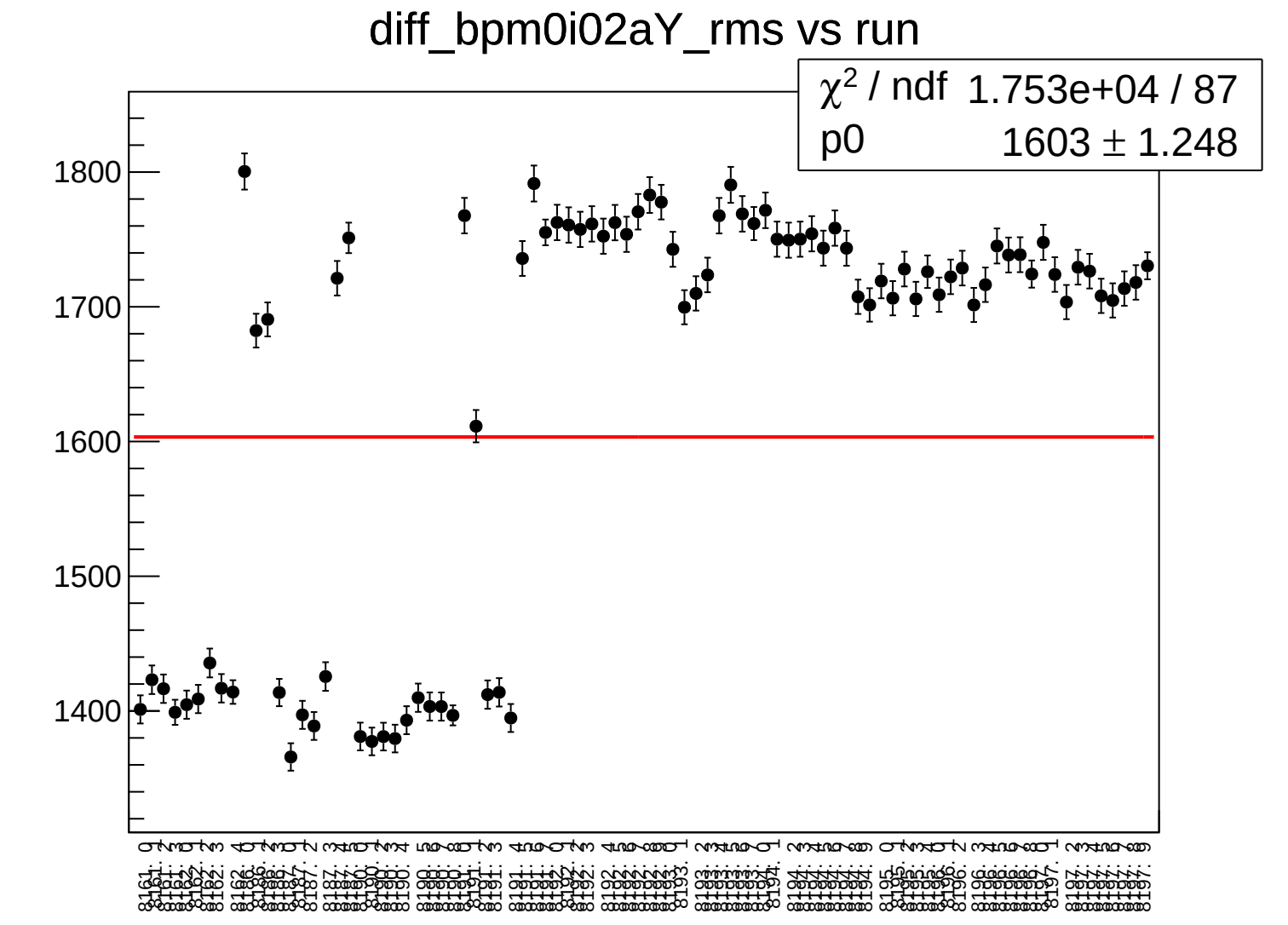

diff_bpm0i02aX_mean vs run
χ² / ndf 402.4 / 87
p0 −152 ± 1.58
pull
Entries 88
Mean −902.1
Std Dev 0

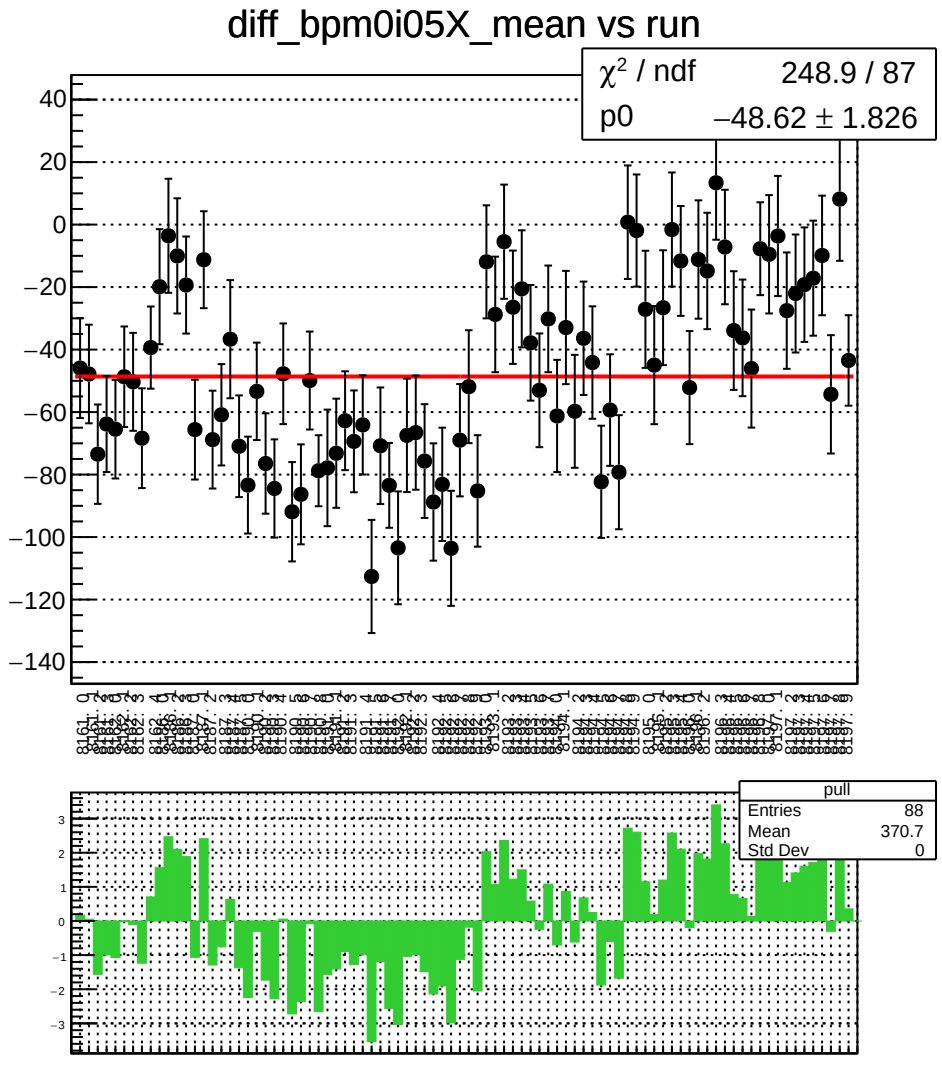

pull1D
Entries 88
Mean 0.01545
Std Dev 2.138

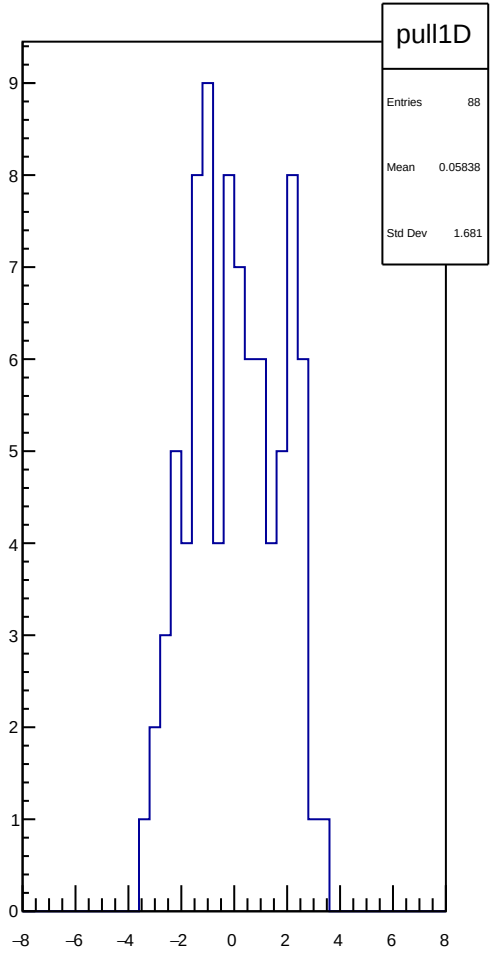

diff_bpm0i02aX_rms vs run
χ² / ndf 337 / 87
p0 1442 ± 1.117
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380

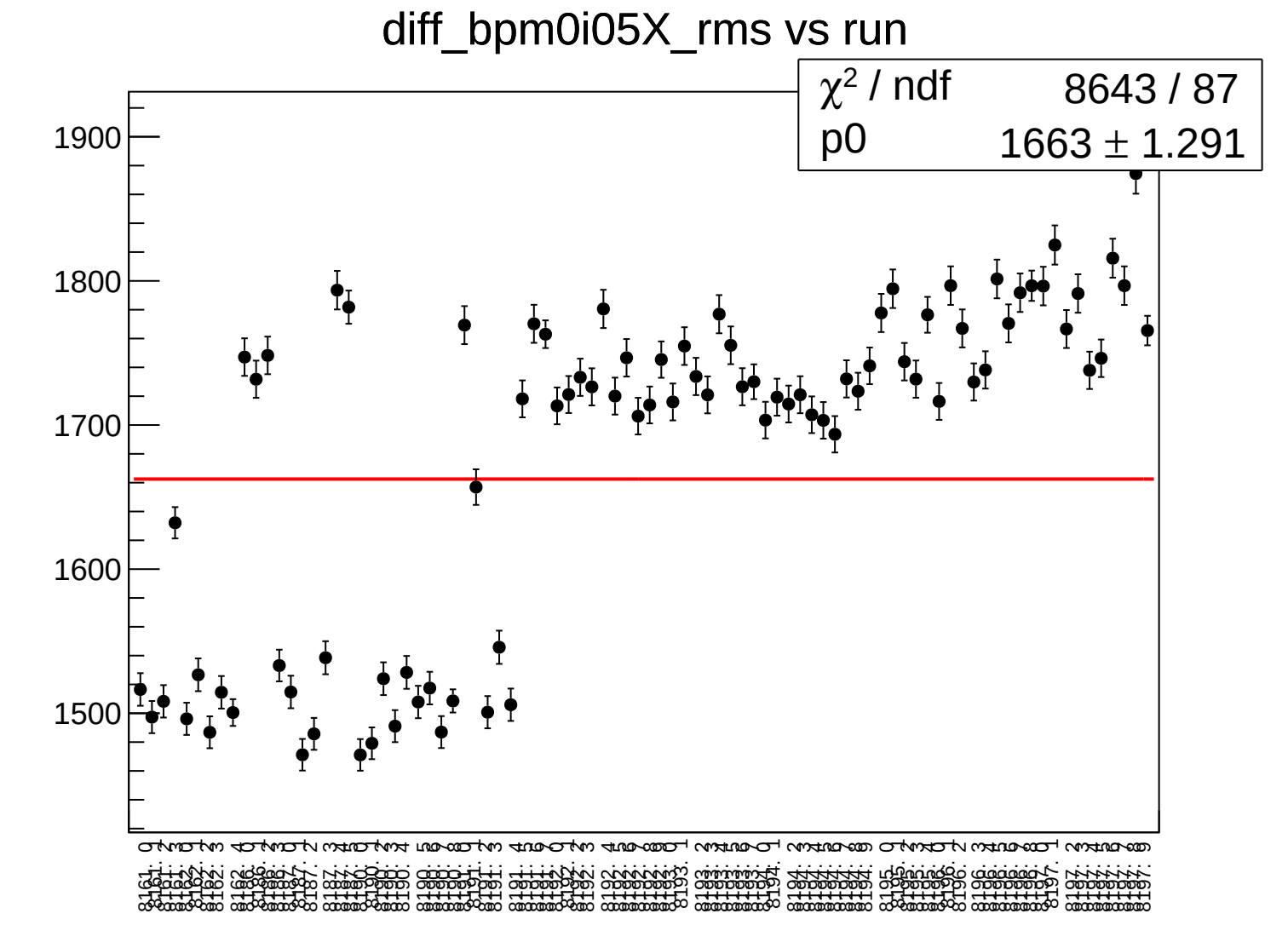

diff_bpm0i02aY_mean vs run
χ² / ndf 177.6 / 87
p0 185.2 ± 1.766
260
240
220
200
180
160
140
120
100
pull
Entries 88
Mean 67.96
Std Dev 0
3
2
1
0
−1
−2
−3

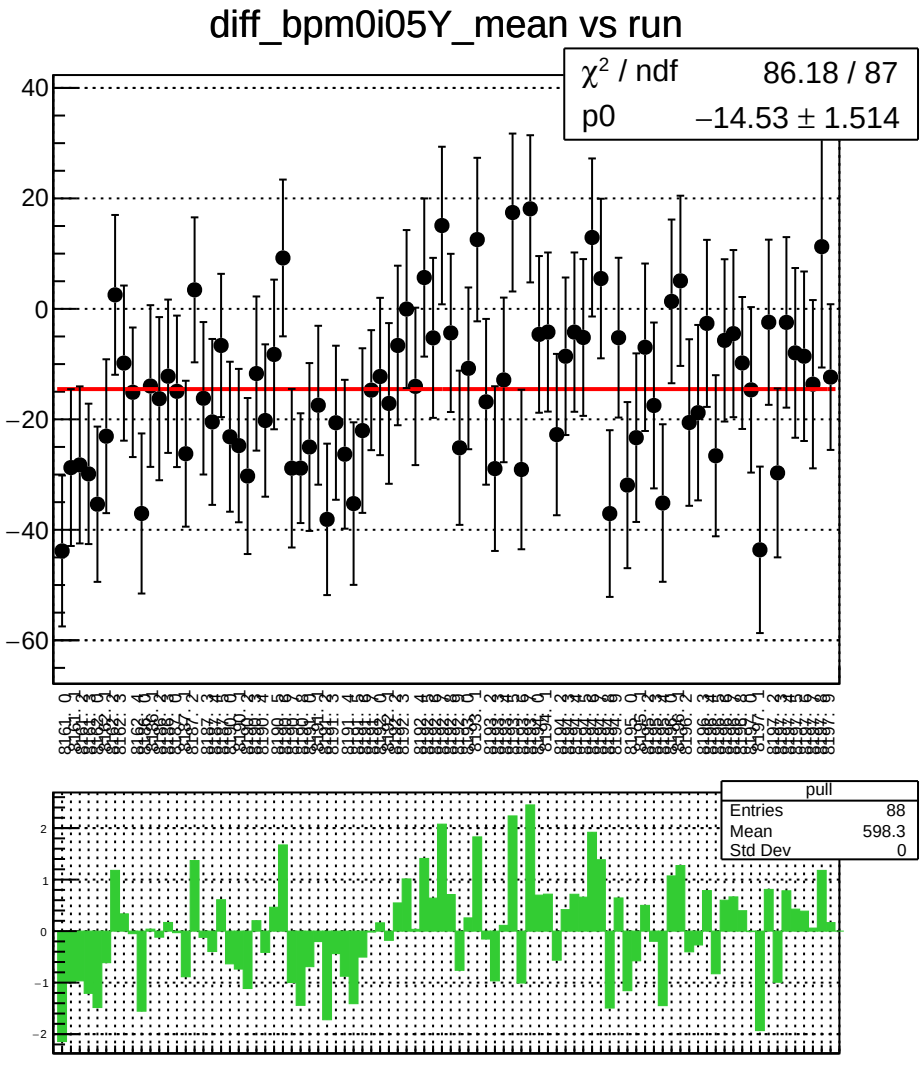

pull1D
Entries 88
Mean −0.05521
Std Dev 1.42
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

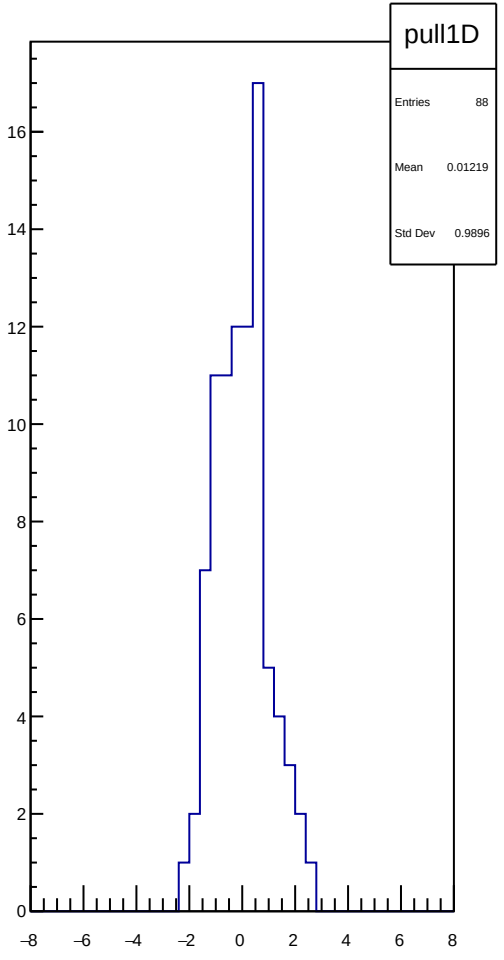

diff_bpm0i02aY_rms vs run
χ² / ndf 1.753e+04 / 87
p0 1603 ± 1.248
1800
1700
1600
1500
1400

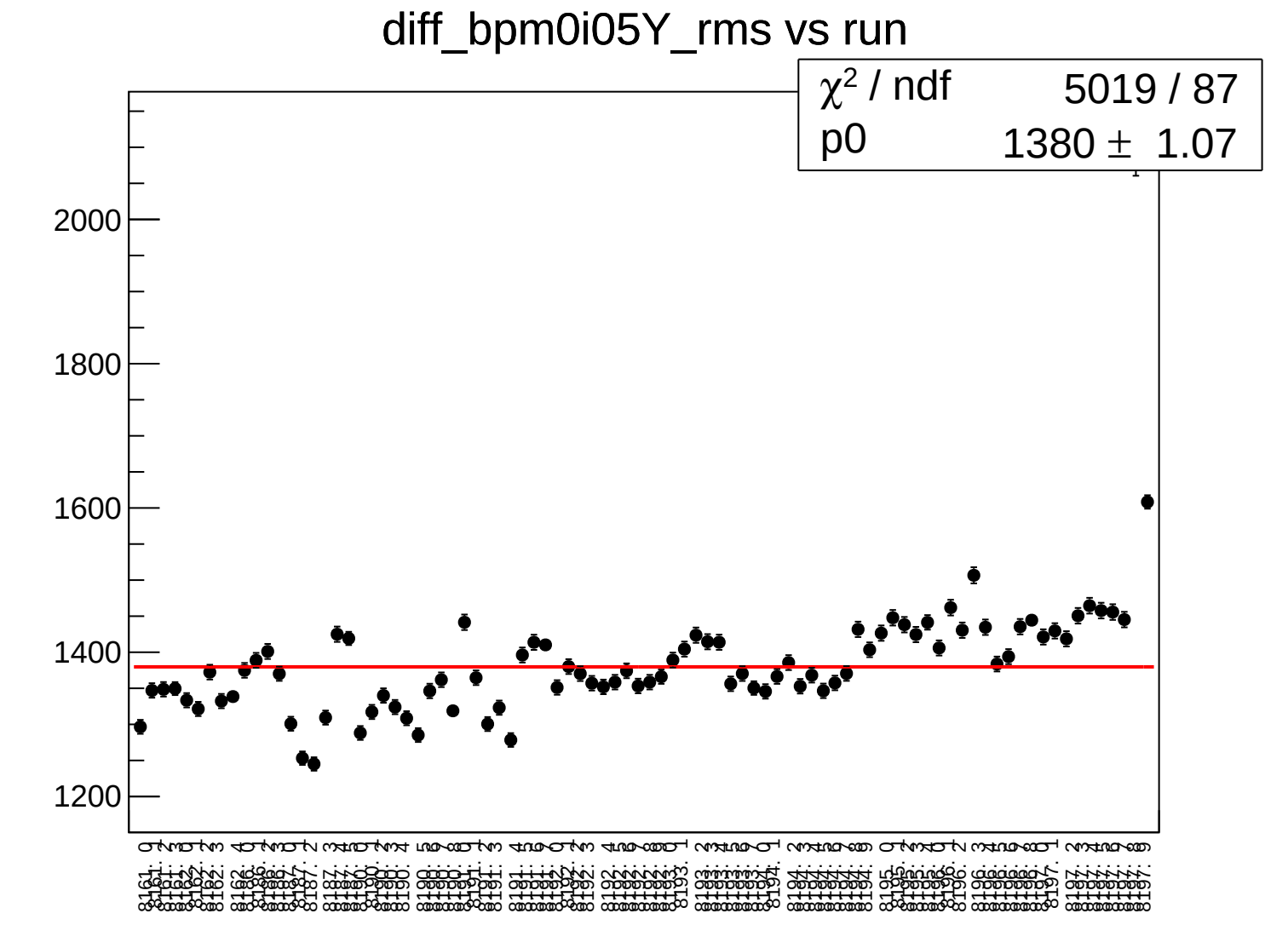

diff_bpm0i05X_mean vs run
χ² / ndf 248.9 / 87
p0 −48.62 ± 1.826
pull
Entries 88
Mean 370.7
Std Dev 0

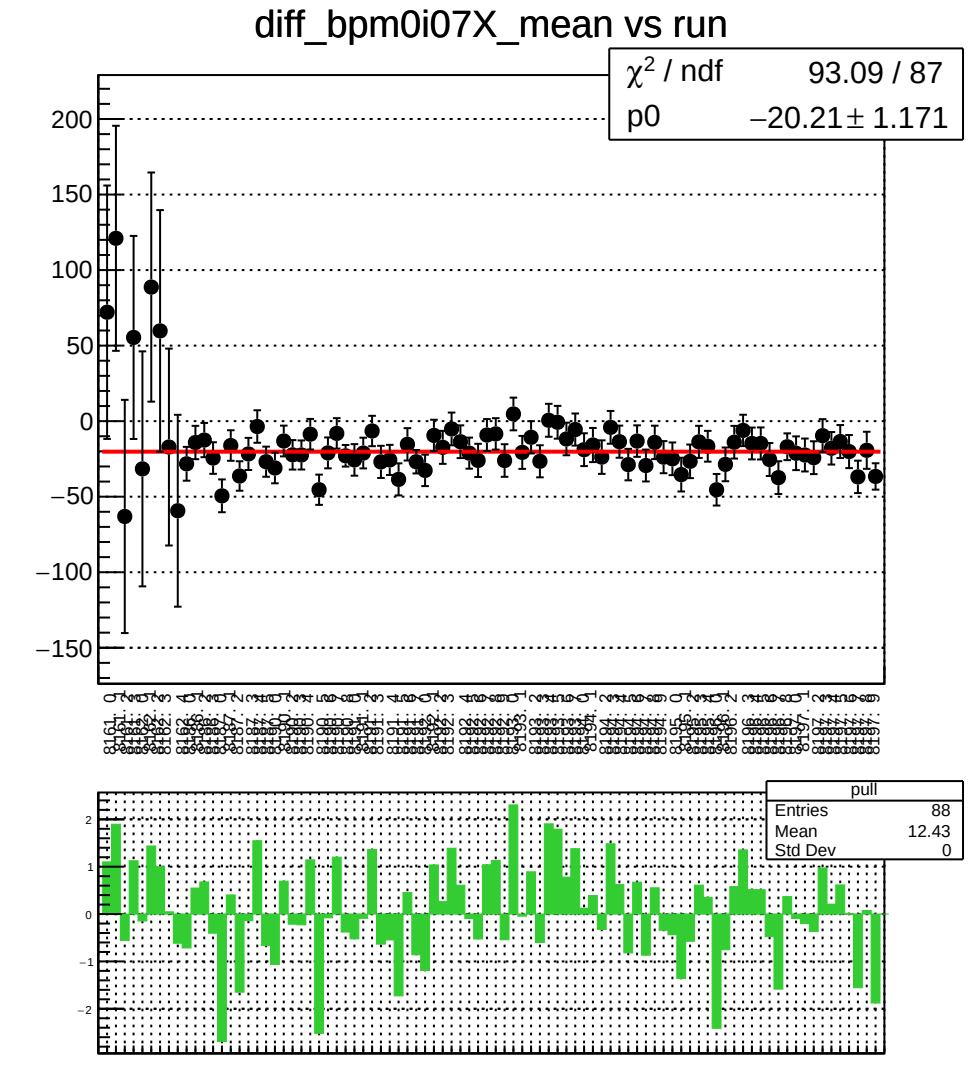

pull1D
Entries 88
Mean 0.05838
Std Dev 1.681

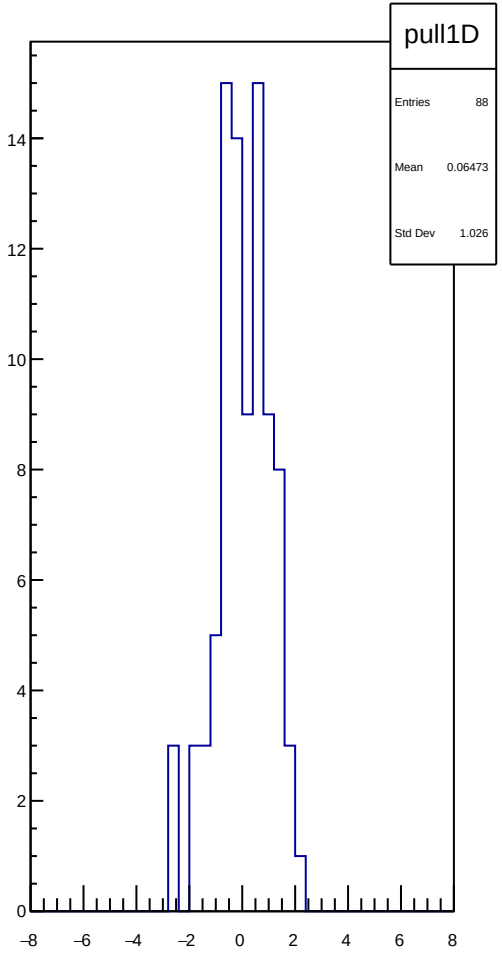

diff_bpm0i05X_rms vs run
χ² / ndf 8643 / 87
p0 1663 ± 1.291
1900
1800
1700
1600
1500

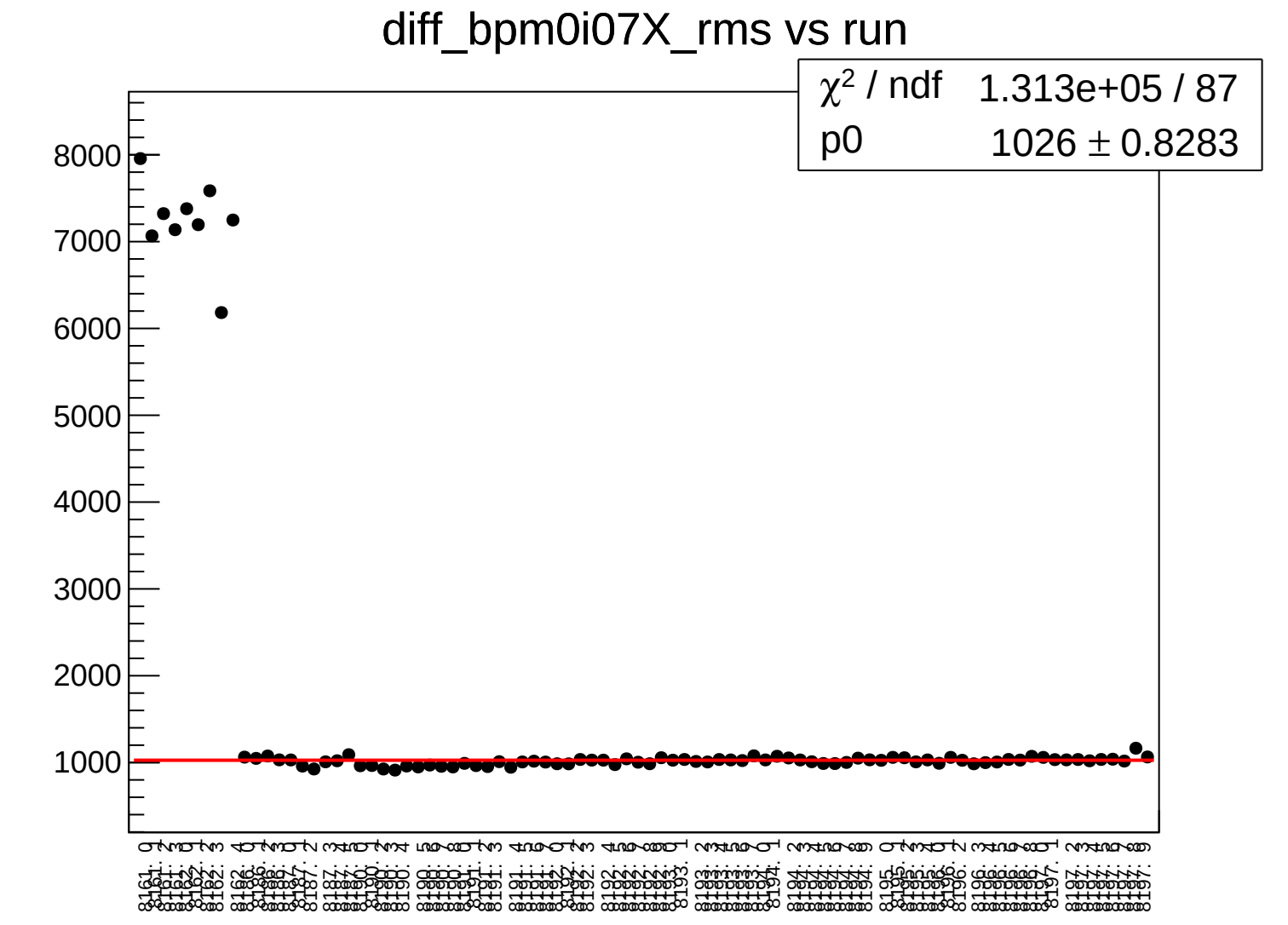

diff_bpm0i05Y_mean vs run
χ² / ndf 86.18 / 87
p0 −14.53 ± 1.514
pull
Entries 88
Mean 598.3
Std Dev 0

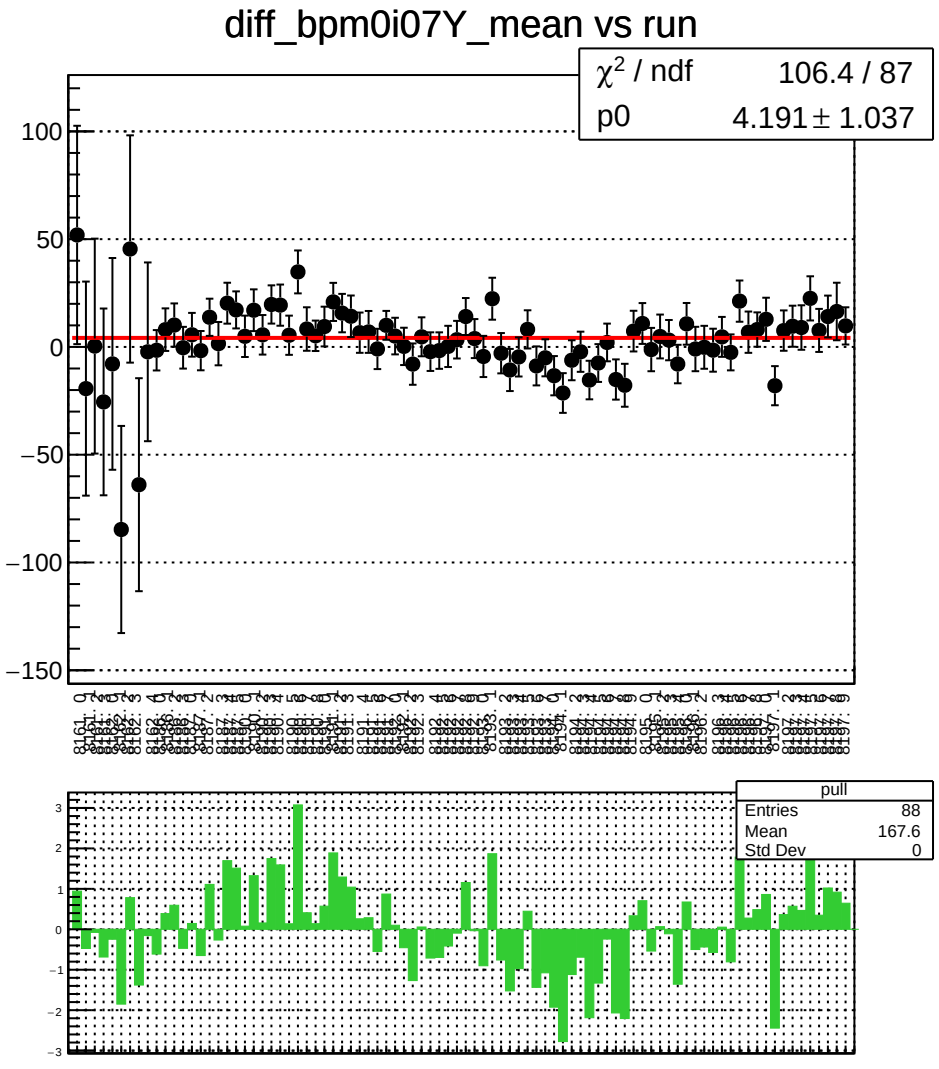

pull1D
Entries 88
Mean 0.01219
Std Dev 0.9896

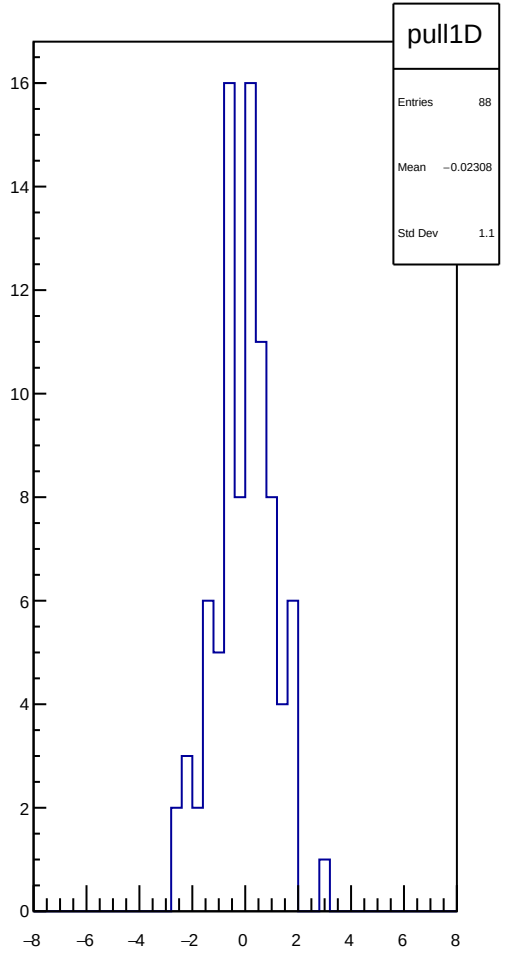

diff_bpm0i05Y_rms vs run
χ² / ndf 5019 / 87
p0 1380 ± 1.07
2000
1800
1600
1400
1200

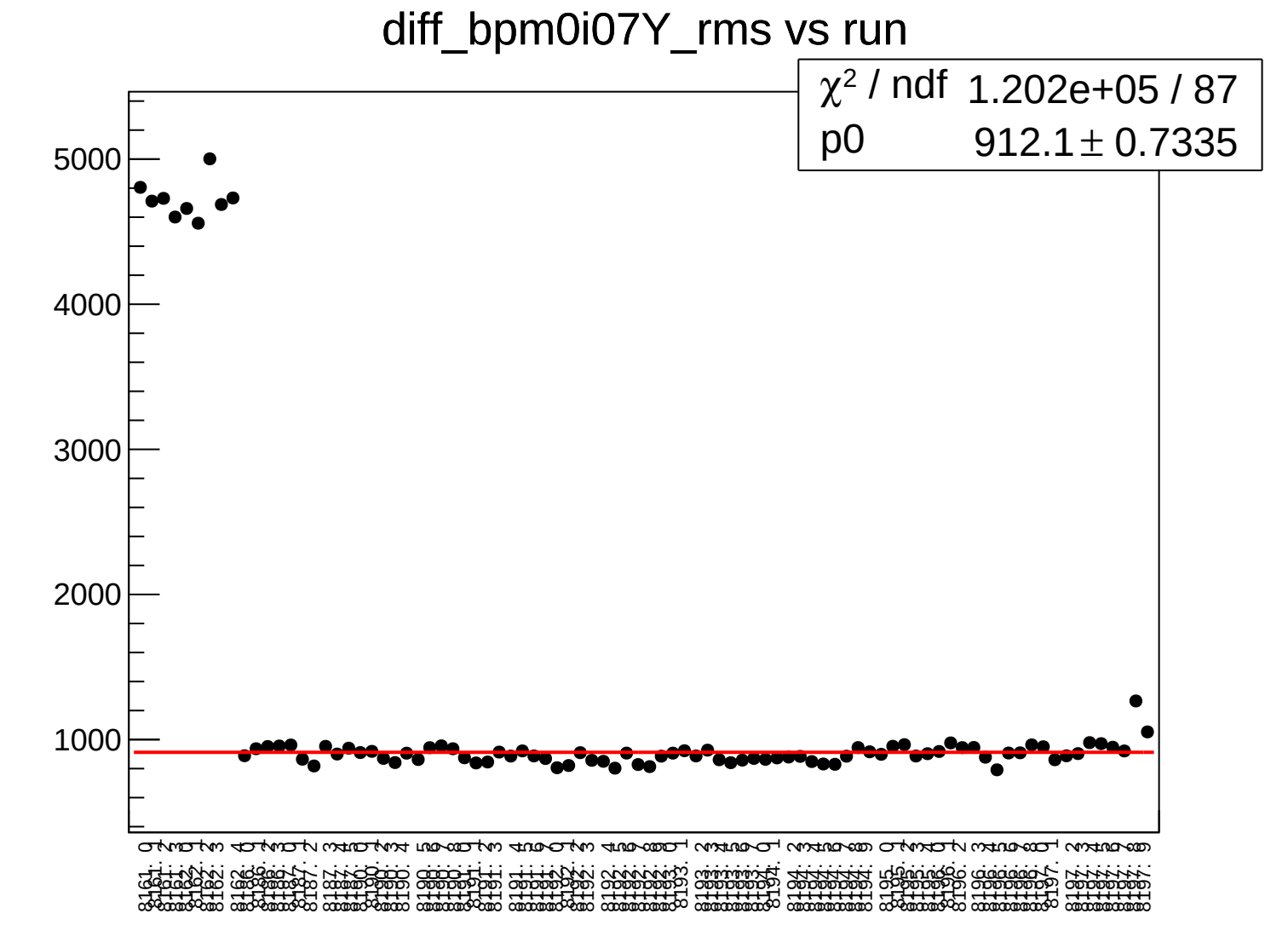

diff_bpm0i07X_mean vs run
χ^2 / ndf 93.09 / 87
p0 −20.21 ± 1.171
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 12.43
Std Dev 0
2
1
0
−1
−2

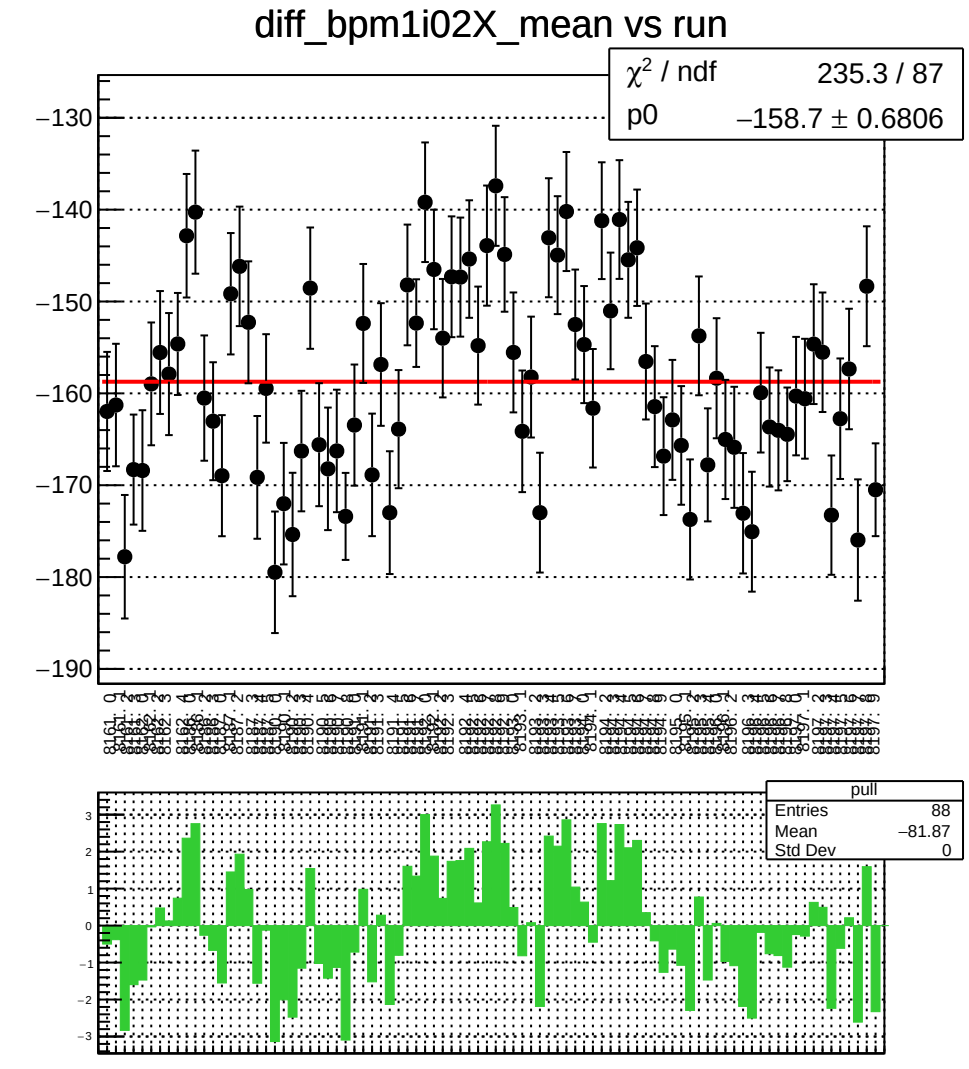

pull1D
Entries 88
Mean 0.06473
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

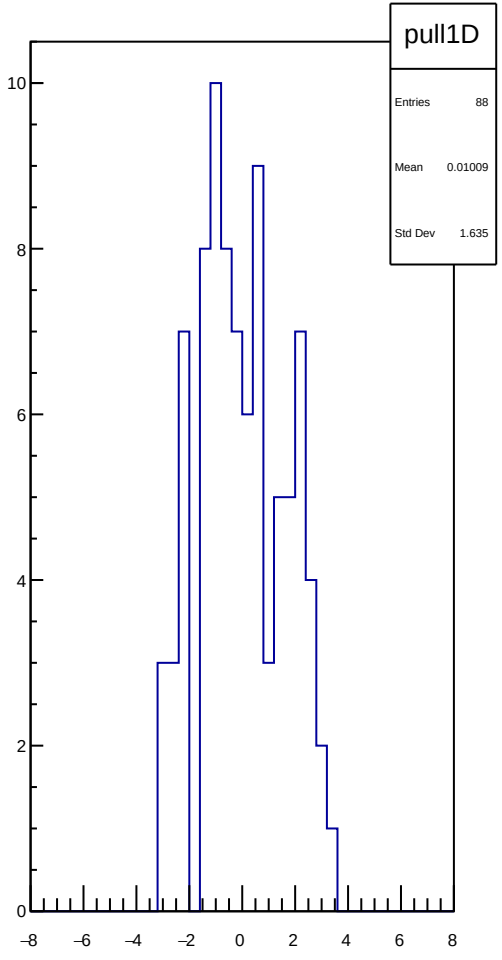

diff_bpm0i07X_rms vs run
χ² / ndf 1.313e+05 / 87
p0 1026 ± 0.8283
8000
7000
6000
5000
4000
3000
2000
1000

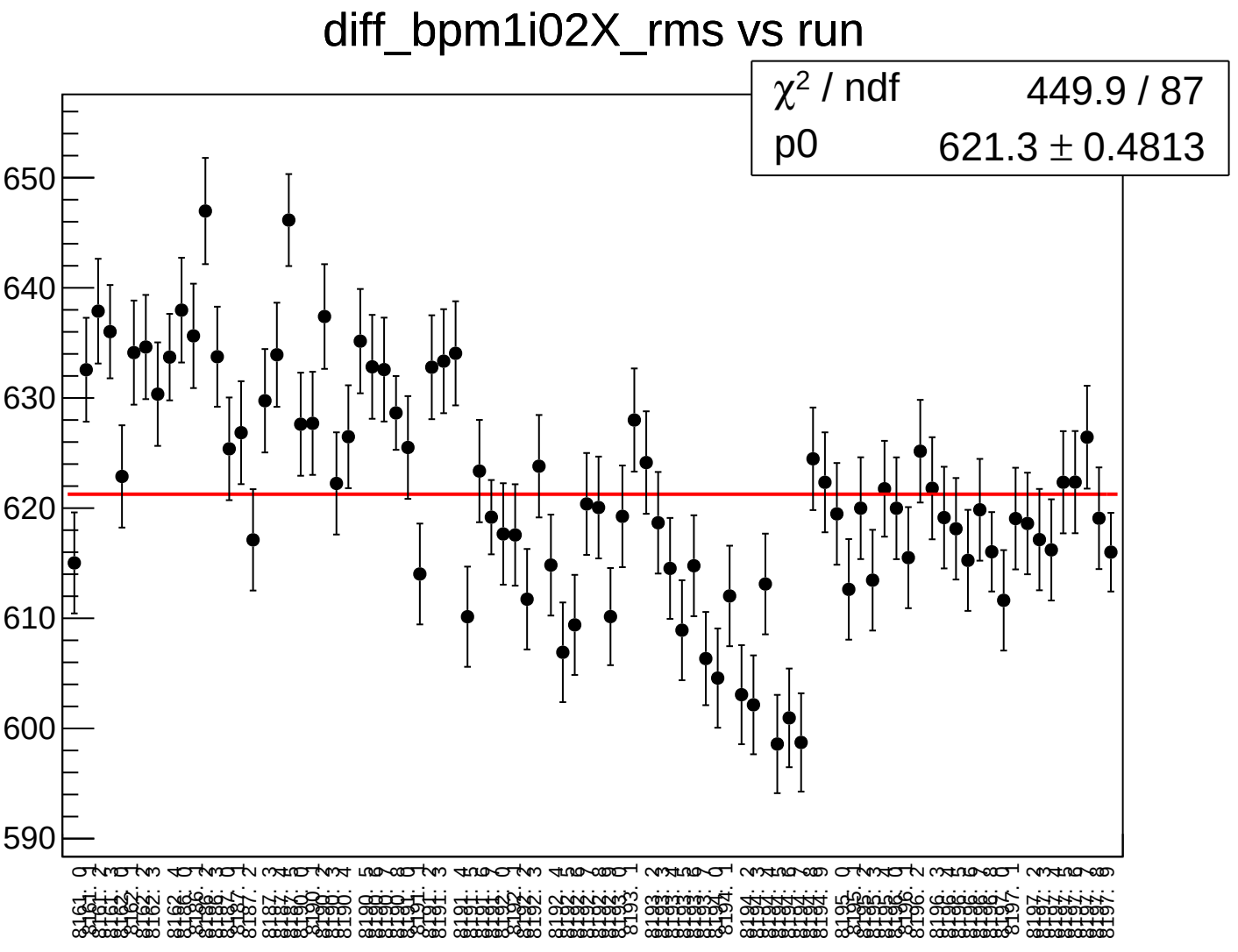

diff_bpm0i07Y_mean vs run
χ² / ndf 106.4 / 87
p0 4.191 ± 1.037
100
50
0
−50
−100
−150
pull
Entries 88
Mean 167.6
Std Dev 0
3
2
1
0
−1
−2
−3

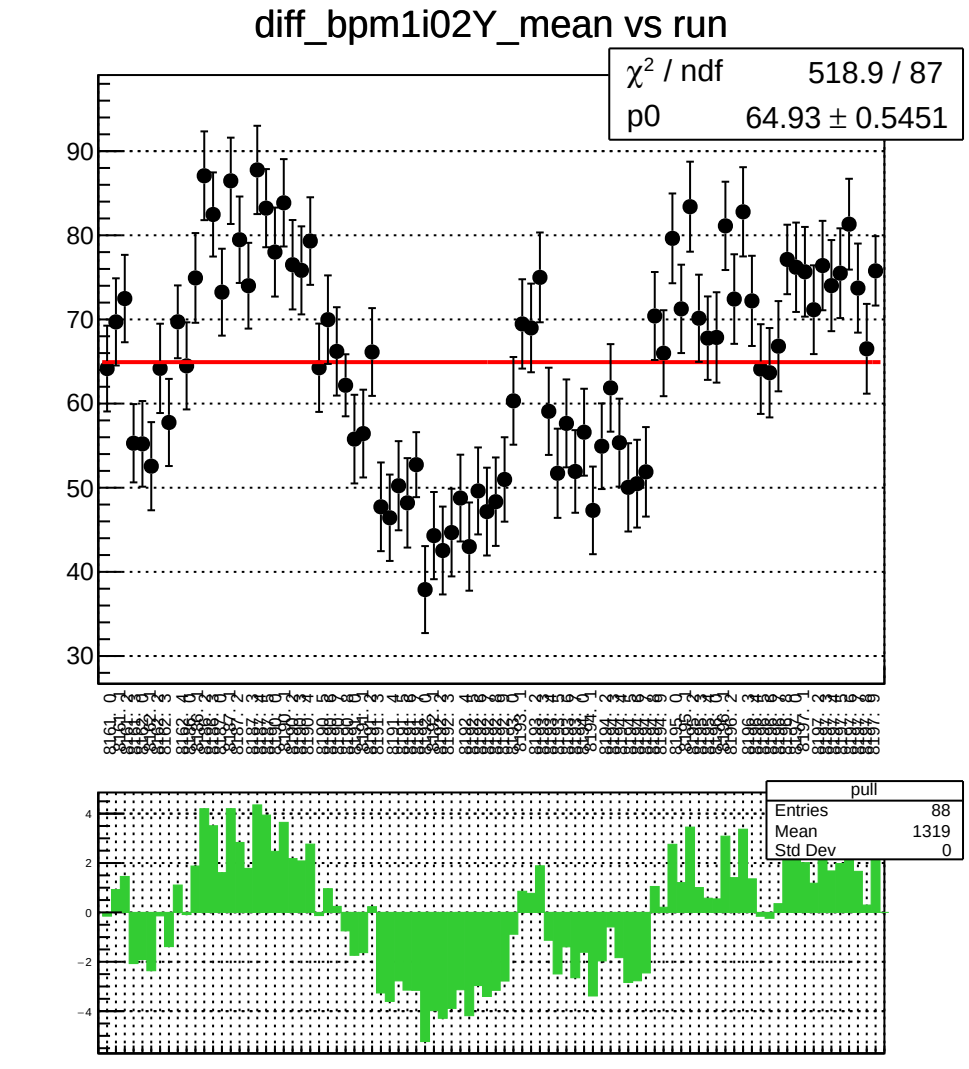

pull1D
Entries 88
Mean −0.02308
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

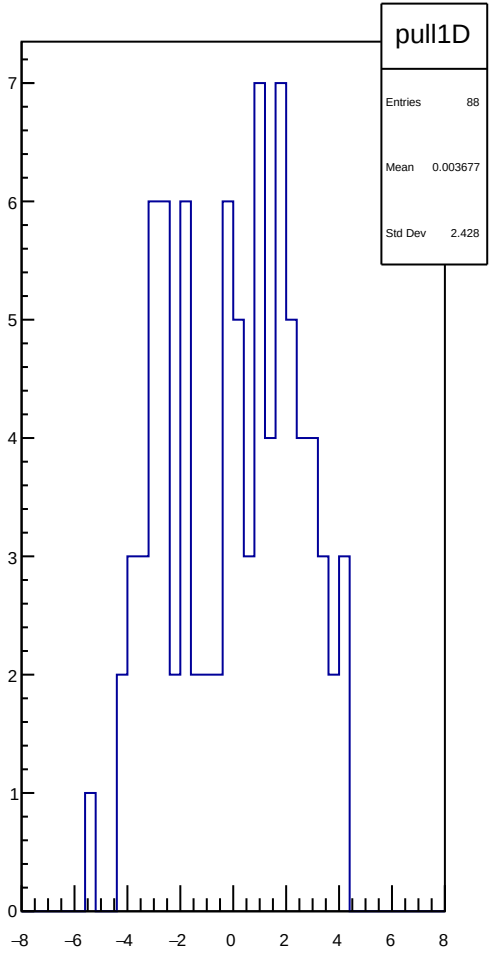

diff_bpm0i07Y_rms vs run
χ² / ndf 1.202e+05 / 87
p0 912.1 ± 0.7335
5000
4000
3000
2000
1000

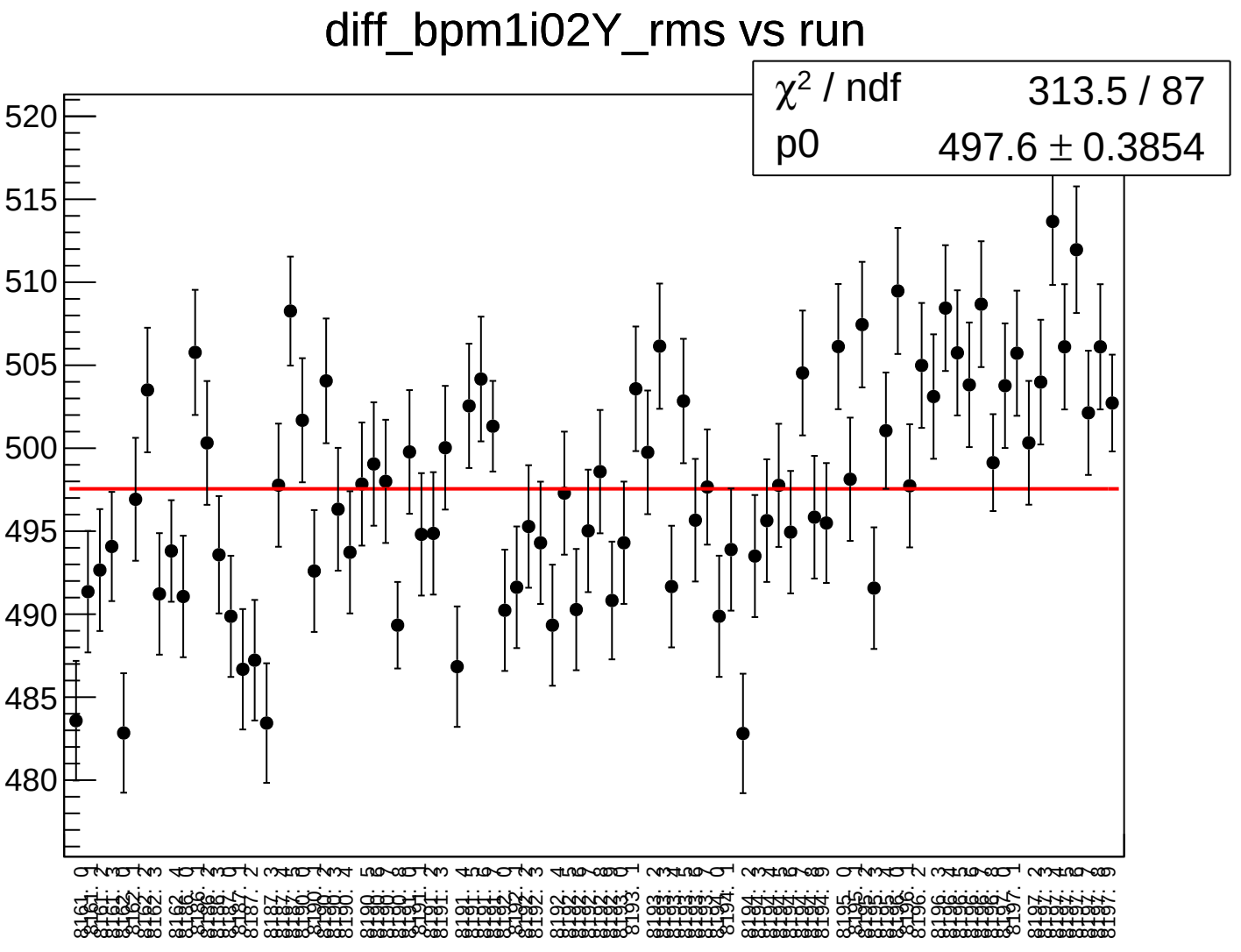

diff_bpm1i02X_mean vs run
χ^2 / ndf 235.3 / 87
p0 −158.7 ± 0.6806
pull
Entries 88
Mean −81.87
Std Dev 0

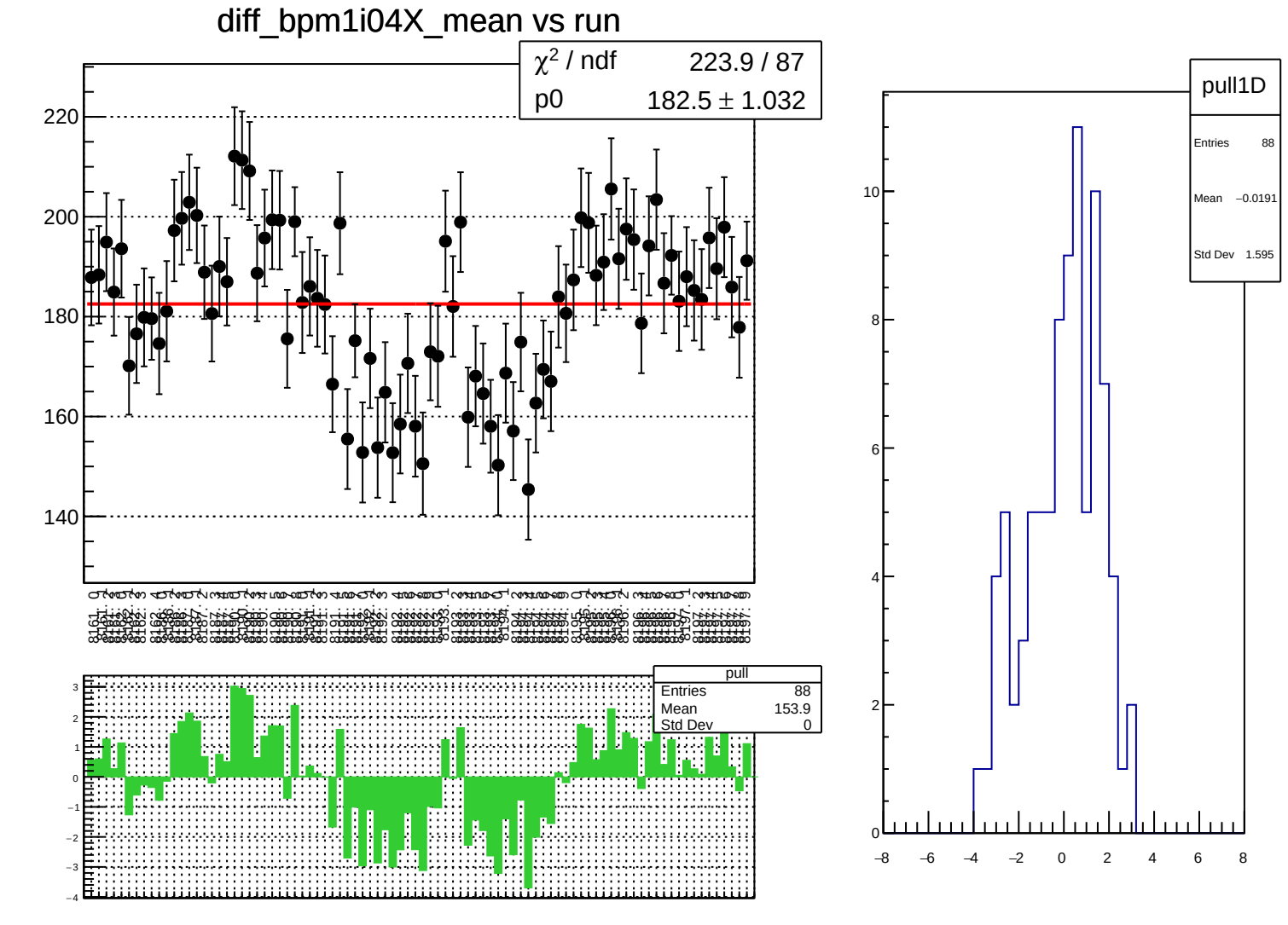

pull1D
Entries 88
Mean 0.01009
Std Dev 1.635

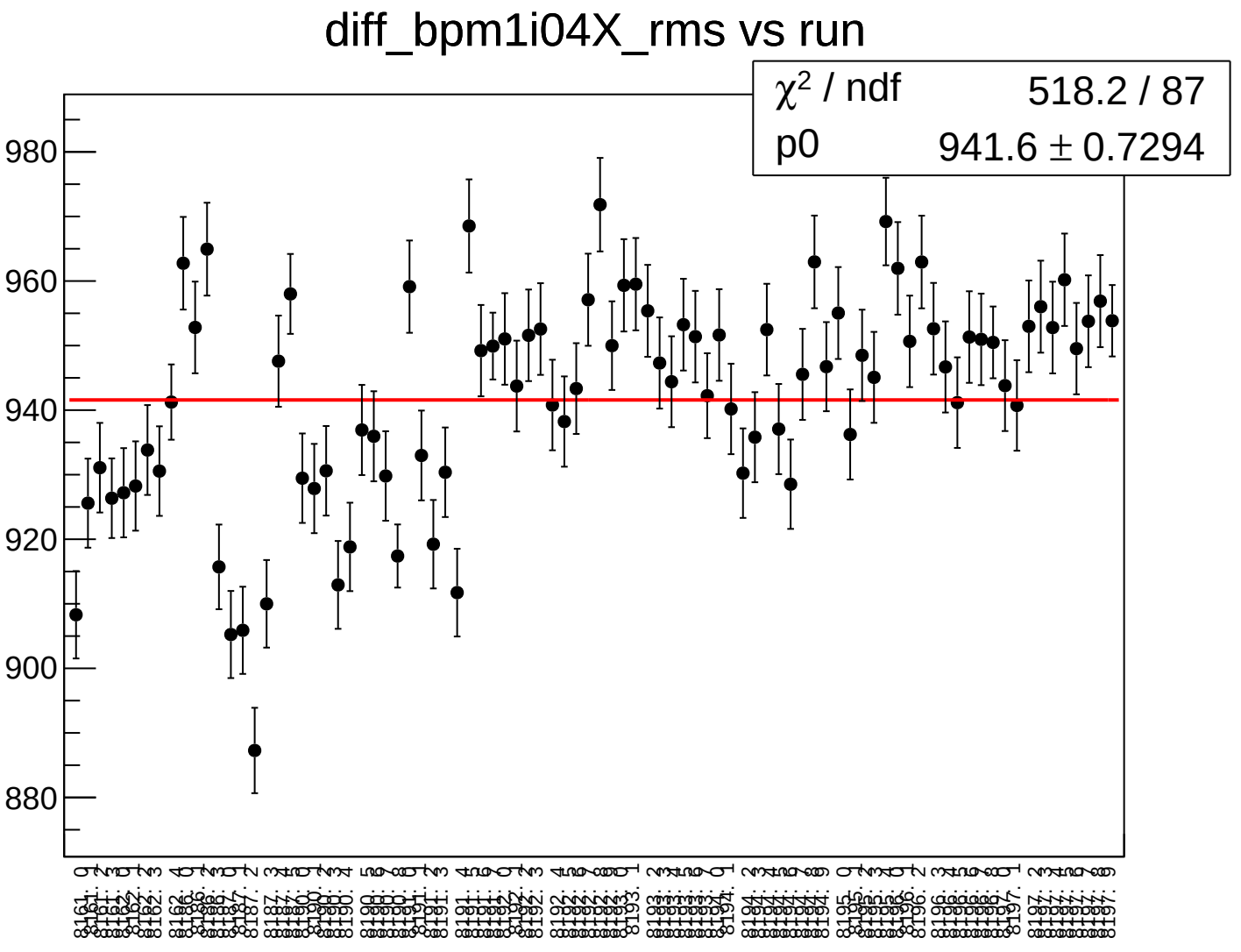

diff_bpm1i02X_rms vs run
χ² / ndf 449.9 / 87
p0 621.3 ± 0.4813
650
640
630
620
610
600
590

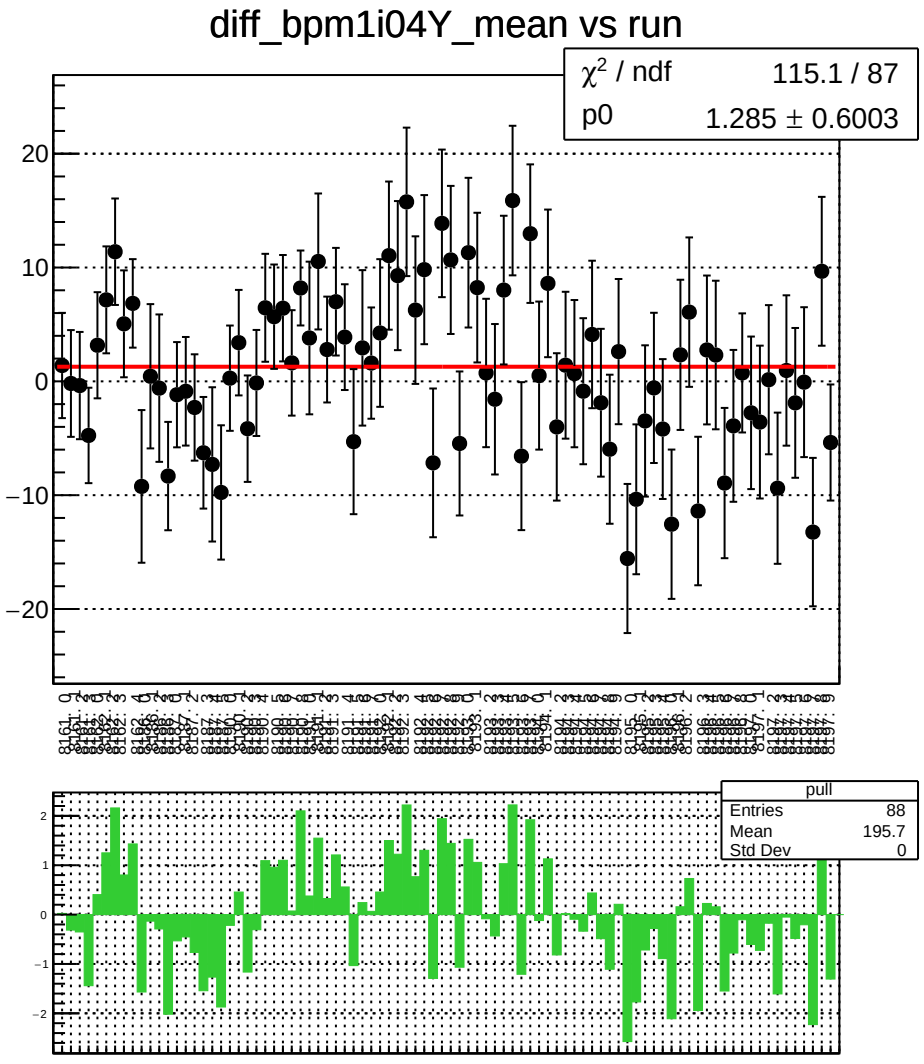

diff_bpm1i02Y_mean vs run
χ² / ndf 518.9 / 87
p0 64.93 ± 0.5451
pull
Entries 88
Mean 1319
Std Dev 0

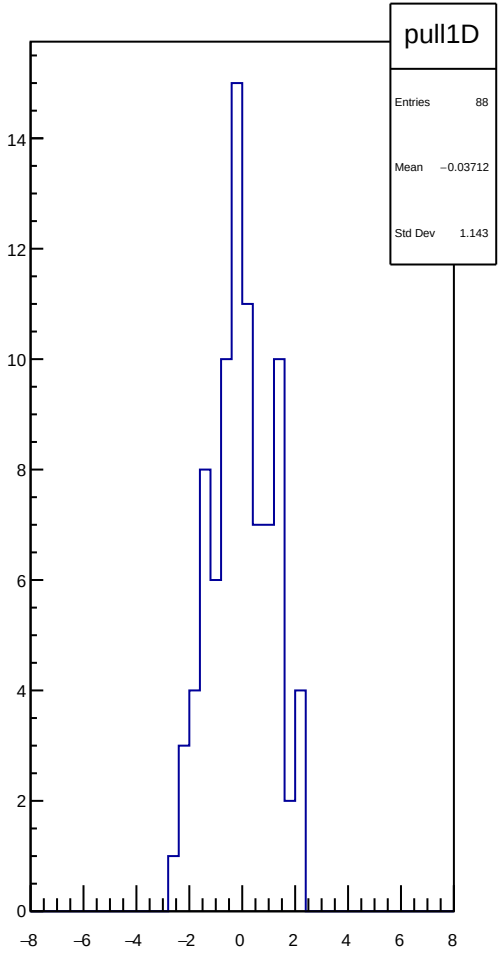

pull1D
Entries 88
Mean 0.003677
Std Dev 2.428

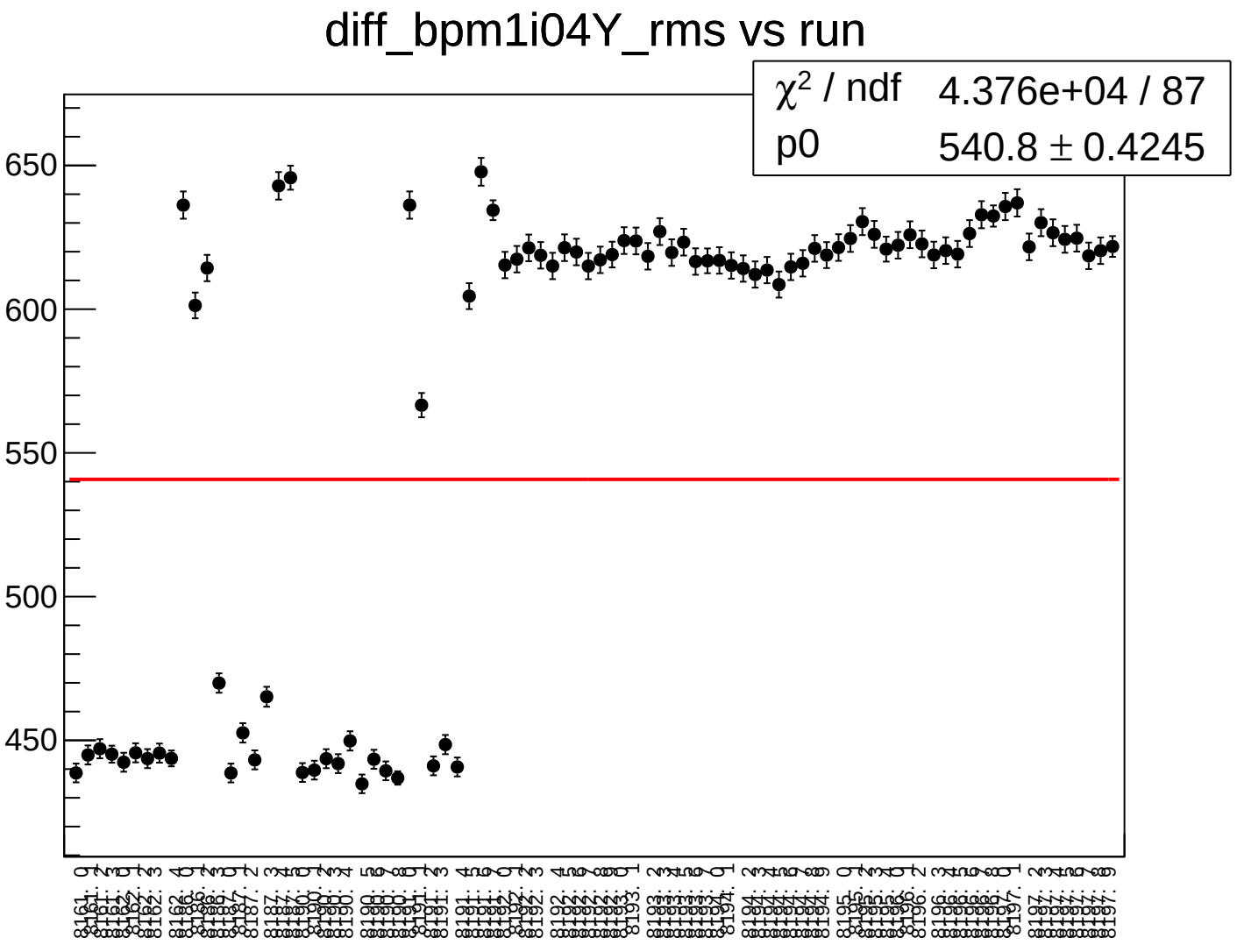

diff_bpm1i02Y_rms vs run
χ² / ndf 313.5 / 87
p0 497.6 ± 0.3854
520
515
510
505
500
495
490
485
480

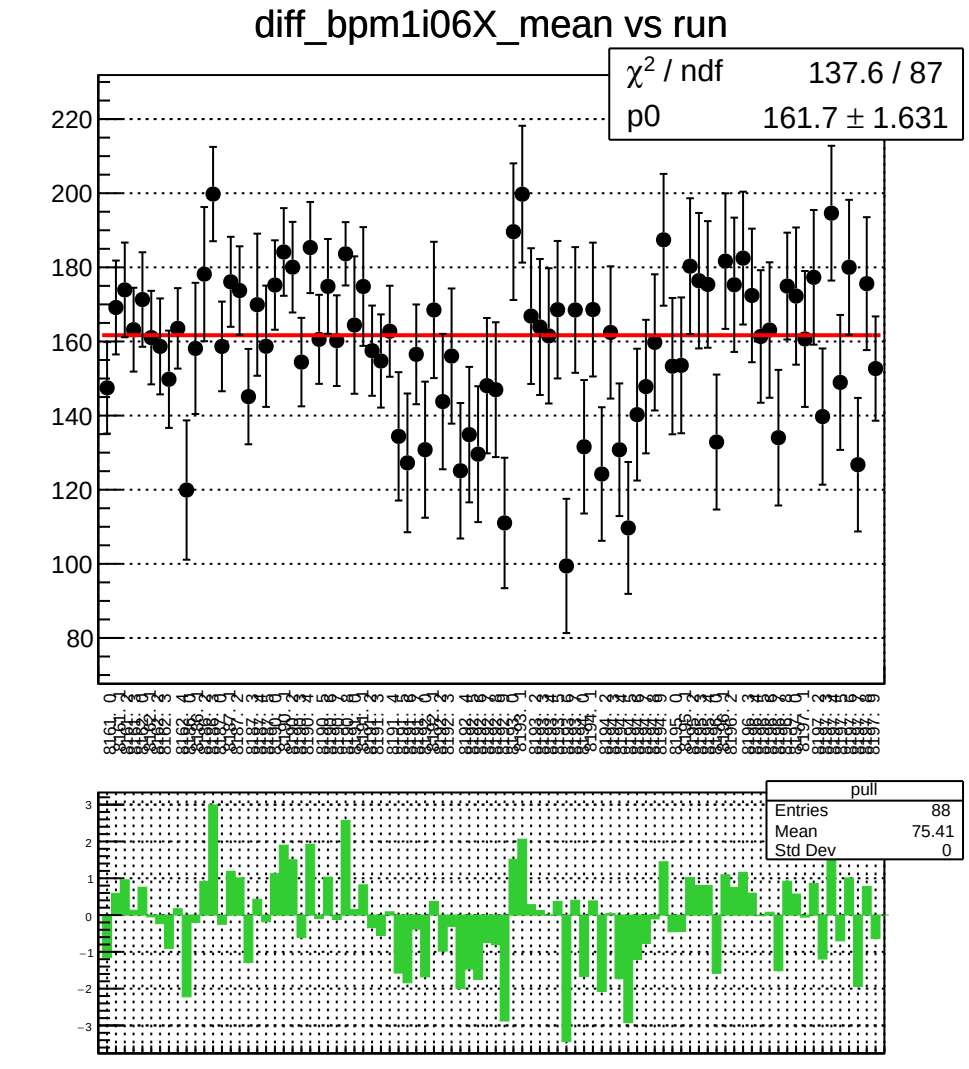

diff_bpm1i04X_mean vs run
χ^2 / ndf 223.9 / 87
p0 182.5 ± 1.032
220
200
180
160
140
pull
Entries 88
Mean 153.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean −0.0191
Std Dev 1.595
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

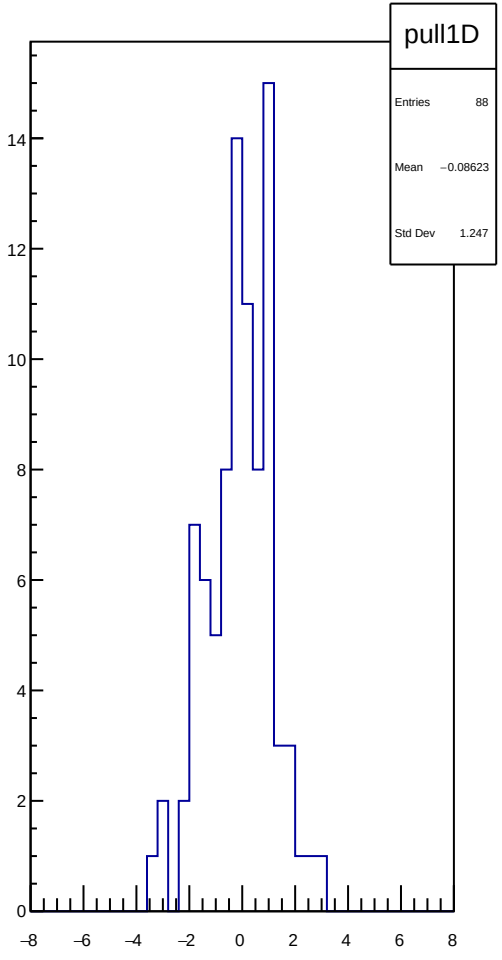

diff_bpm1i04X_rms vs run
χ² / ndf 518.2 / 87
p0 941.6 ± 0.7294
980
960
940
920
900
880

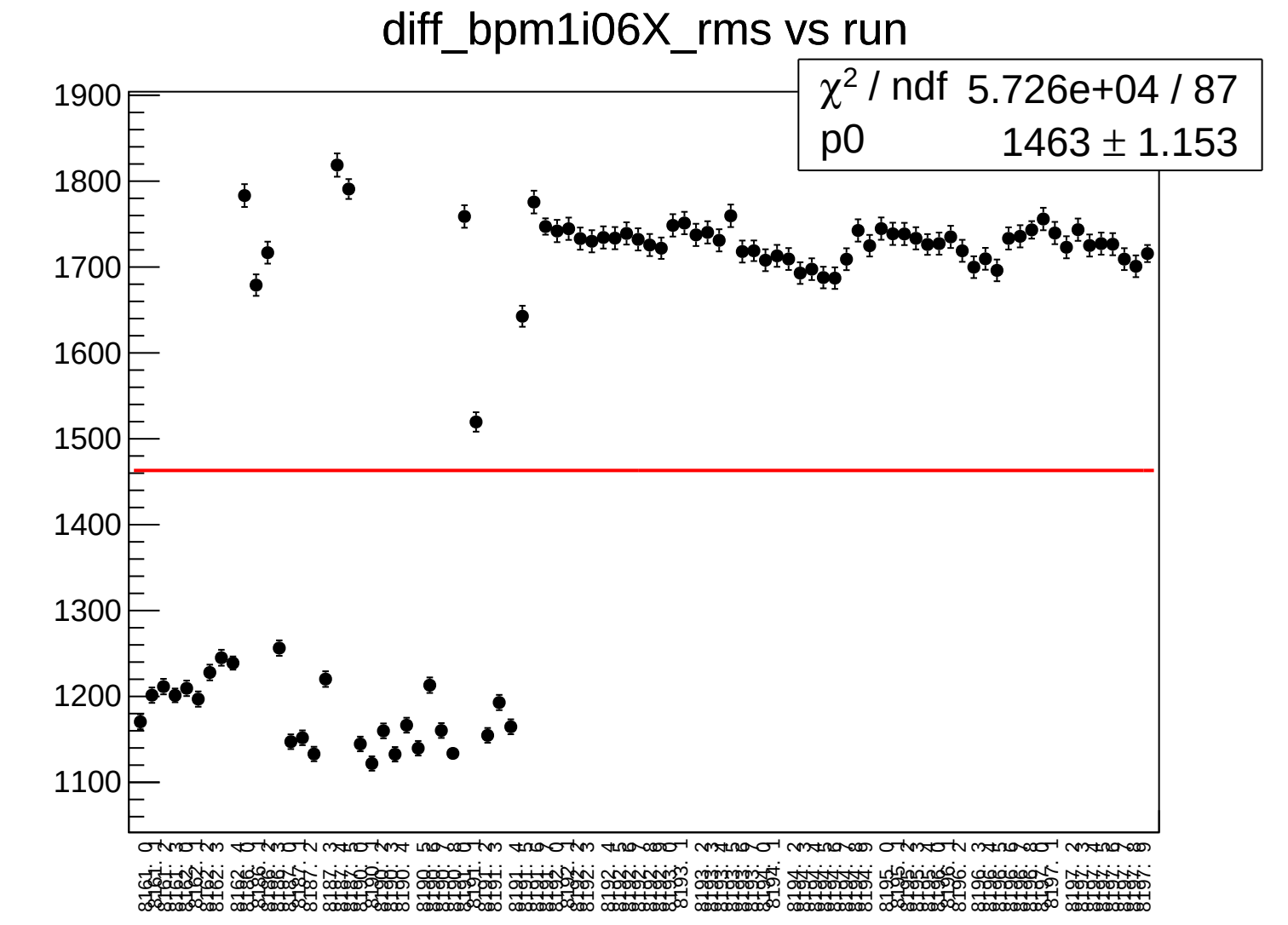

diff_bpm1i04Y_mean vs run
χ² / ndf 115.1 / 87
p0 1.285 ± 0.6003
pull
Entries 88
Mean 195.7
Std Dev 0

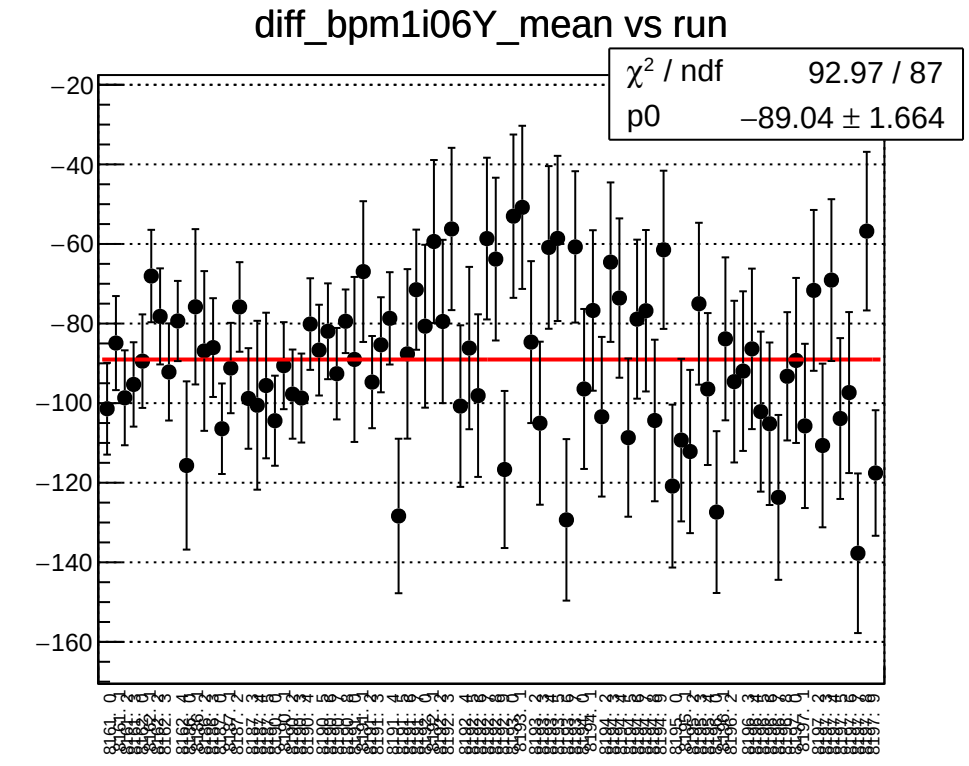

pull1D
Entries 88
Mean −0.03712
Std Dev 1.143

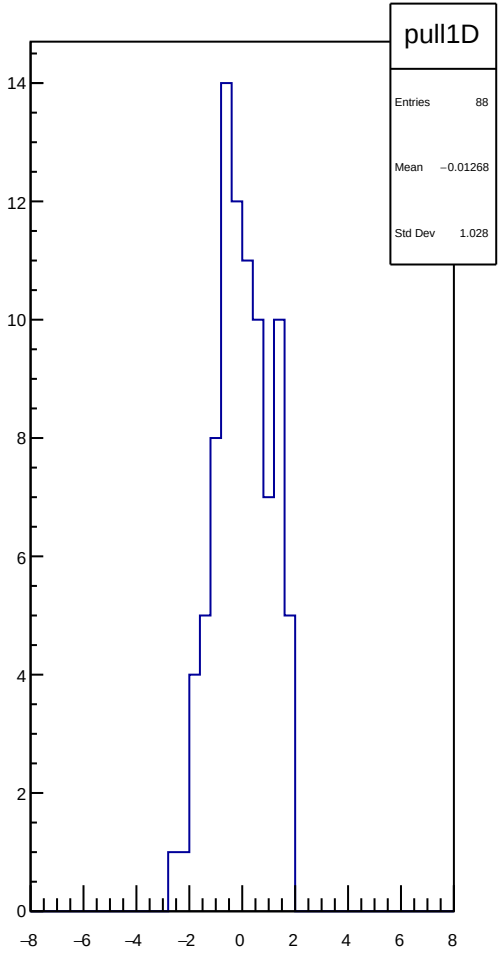

diff_bpm1i04Y_rms vs run
χ² / ndf 4.376e+04 / 87
p0 540.8 ± 0.4245
650
600
550
500
450

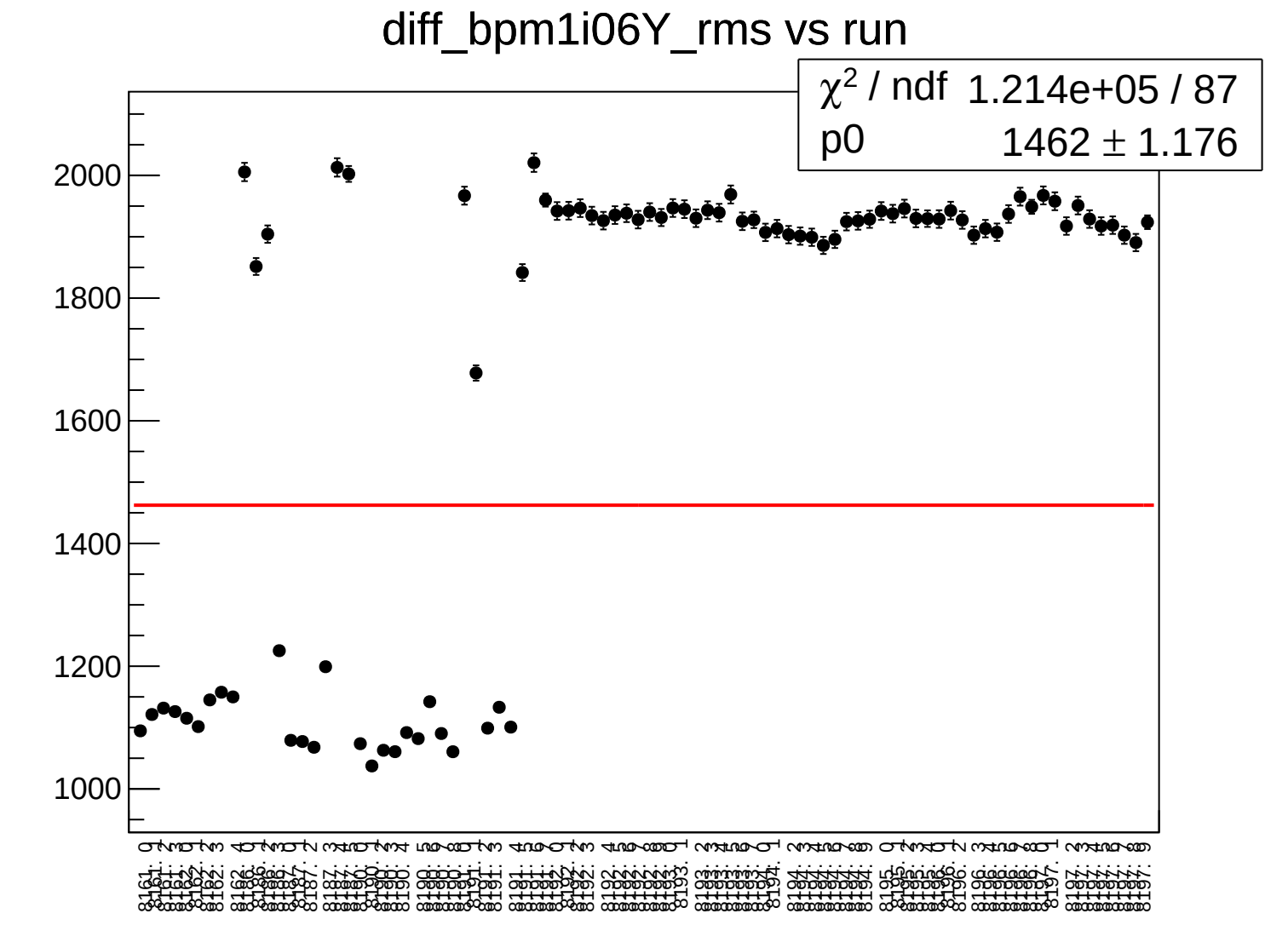

diff_bpm1i06X_mean vs run
χ^2 / ndf 137.6 / 87
p0 161.7 ± 1.631
pull
Entries 88
Mean 75.41
Std Dev 0

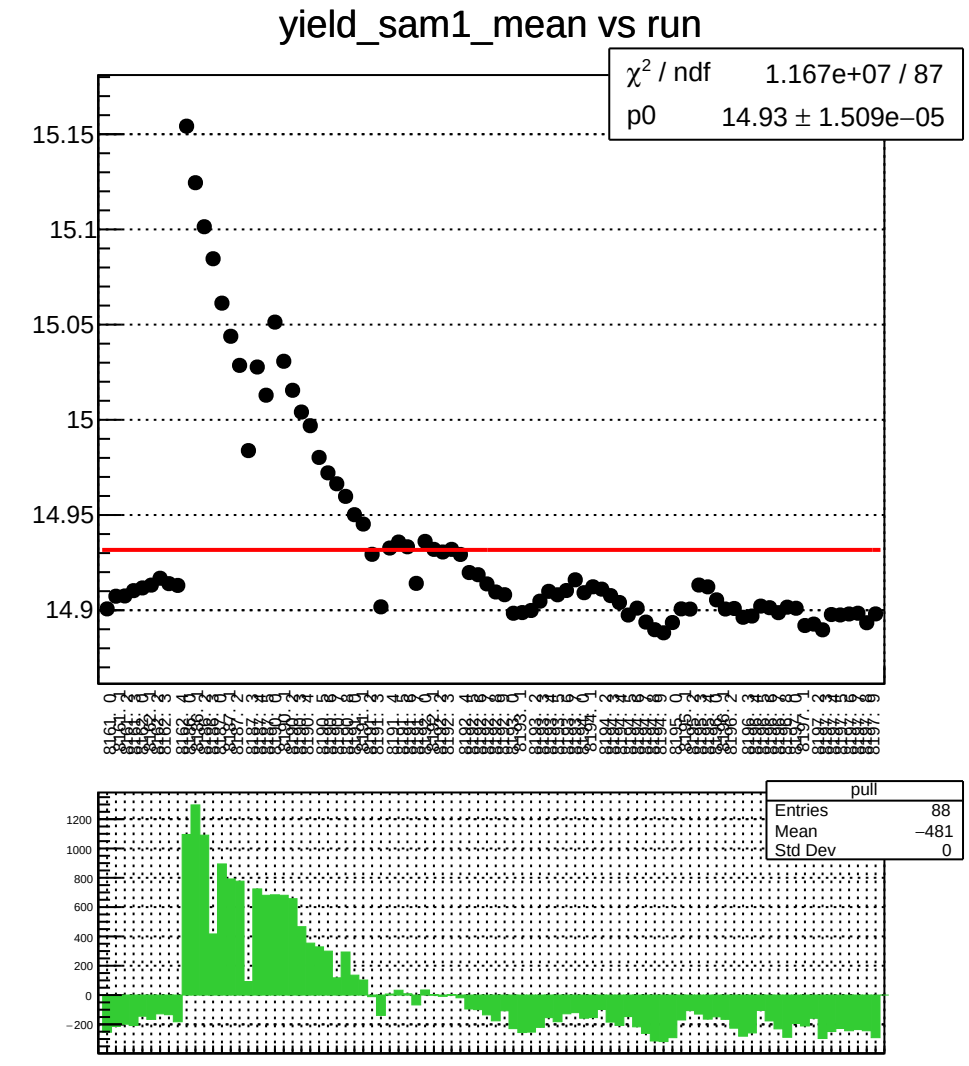

pull1D
Entries 88
Mean −0.08623
Std Dev 1.247

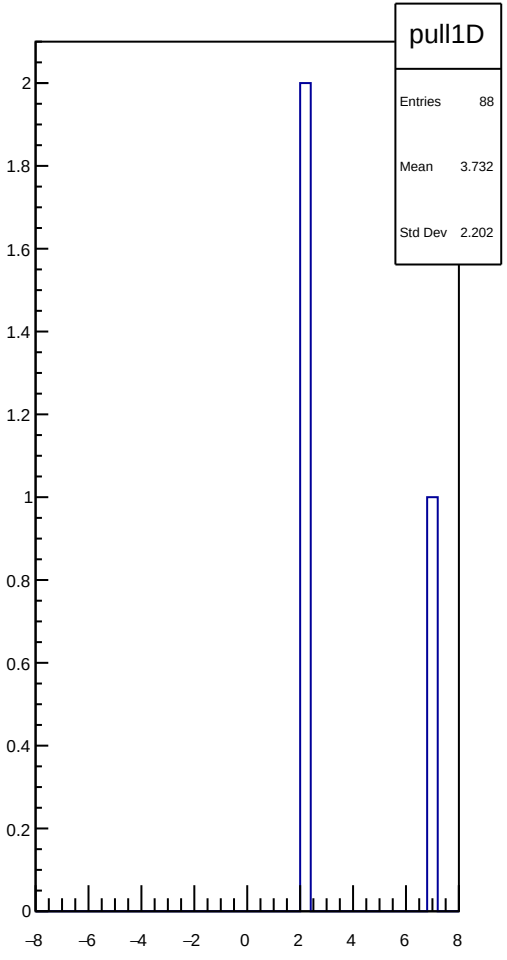

diff_bpm1i06X_rms vs run
χ^2 / ndf 5.726e+04 / 87
p0 1463 ± 1.153
1900
1800
1700
1600
1500
1400
1300
1200
1100

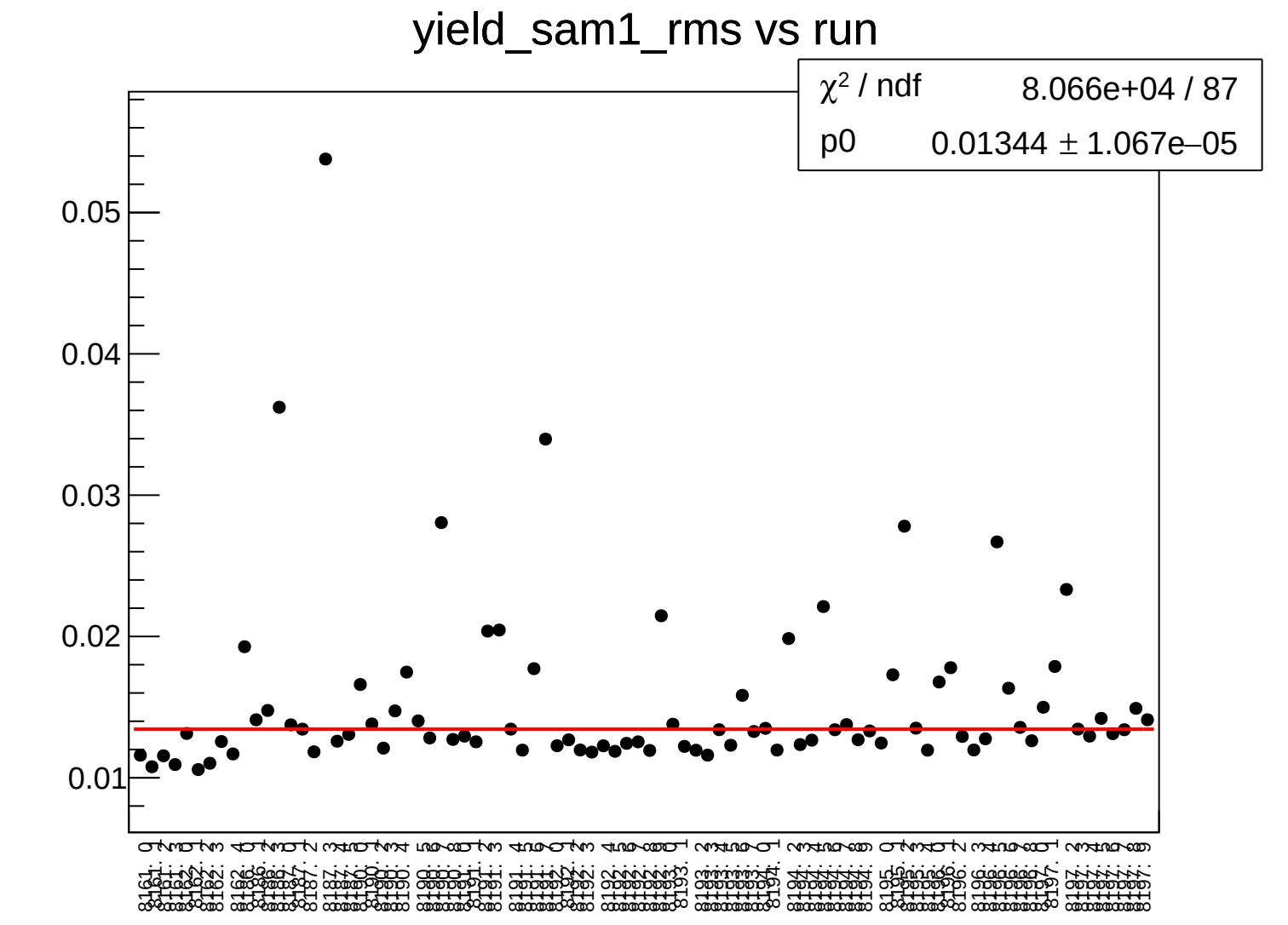

diff_bpm1i06Y_mean vs run
χ² / ndf 92.97 / 87
p0 −89.04 ± 1.664
pull
Entries 88
Mean 308.1
Std Dev 0

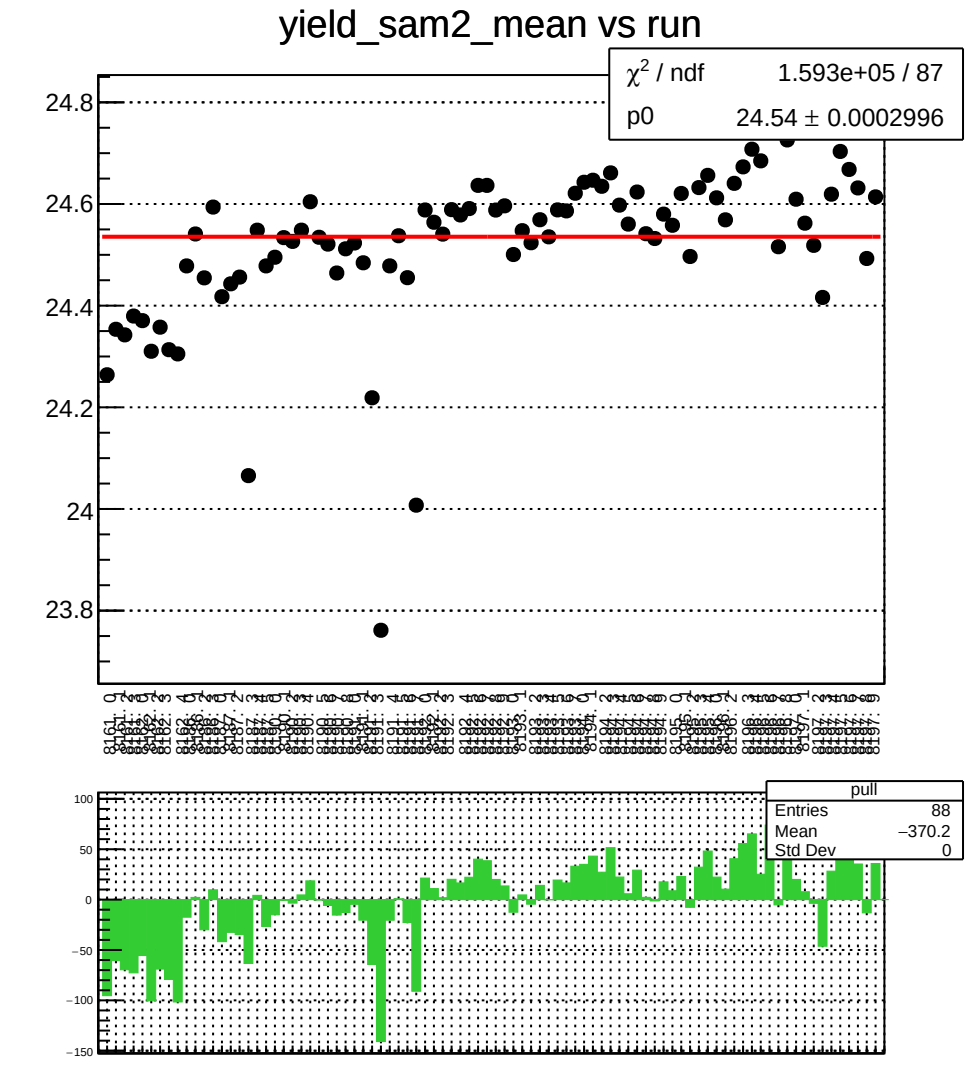

pull1D
Entries 88
Mean −0.01268
Std Dev 1.028

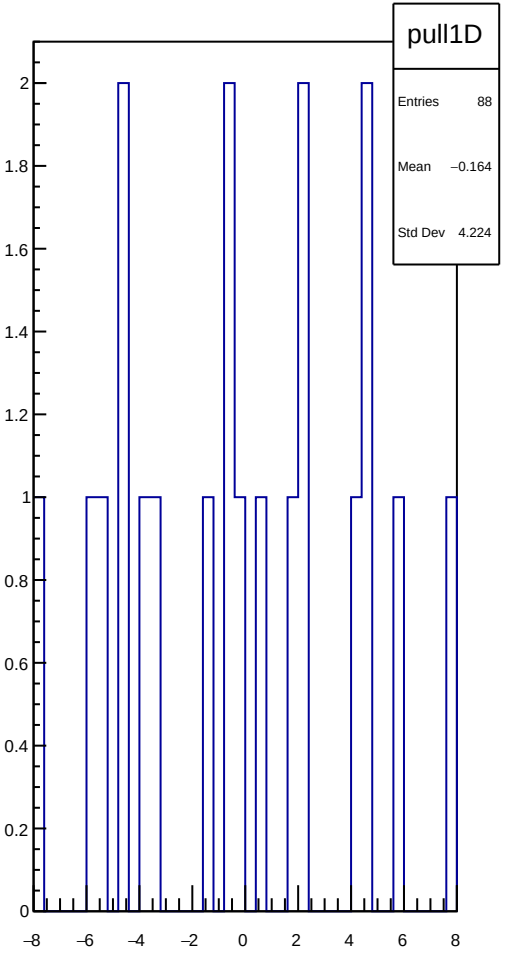

diff_bpm1i06Y_rms vs run
χ² / ndf 1.214e+05 / 87
p0 1462 ± 1.176
2000
1800
1600
1400
1200
1000

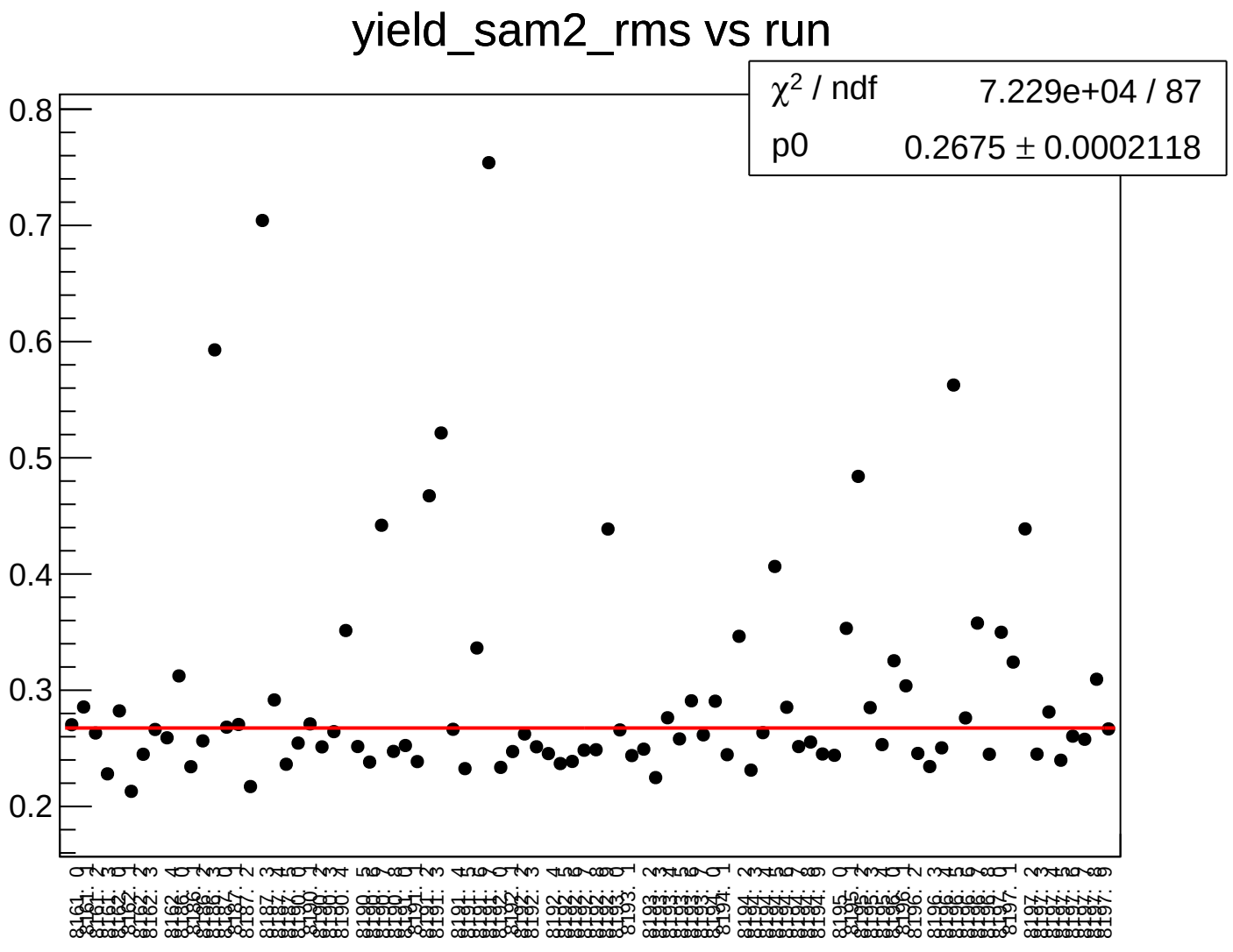

yield_sam1_mean vs run
χ² / ndf 1.167e+07 / 87
p0 14.93 ± 1.509e−05
15.15
15.1
15.05
15
14.95
14.9
pull
Entries 88
Mean −481
Std Dev 0
1200
1000
800
600
400
200
0
−200

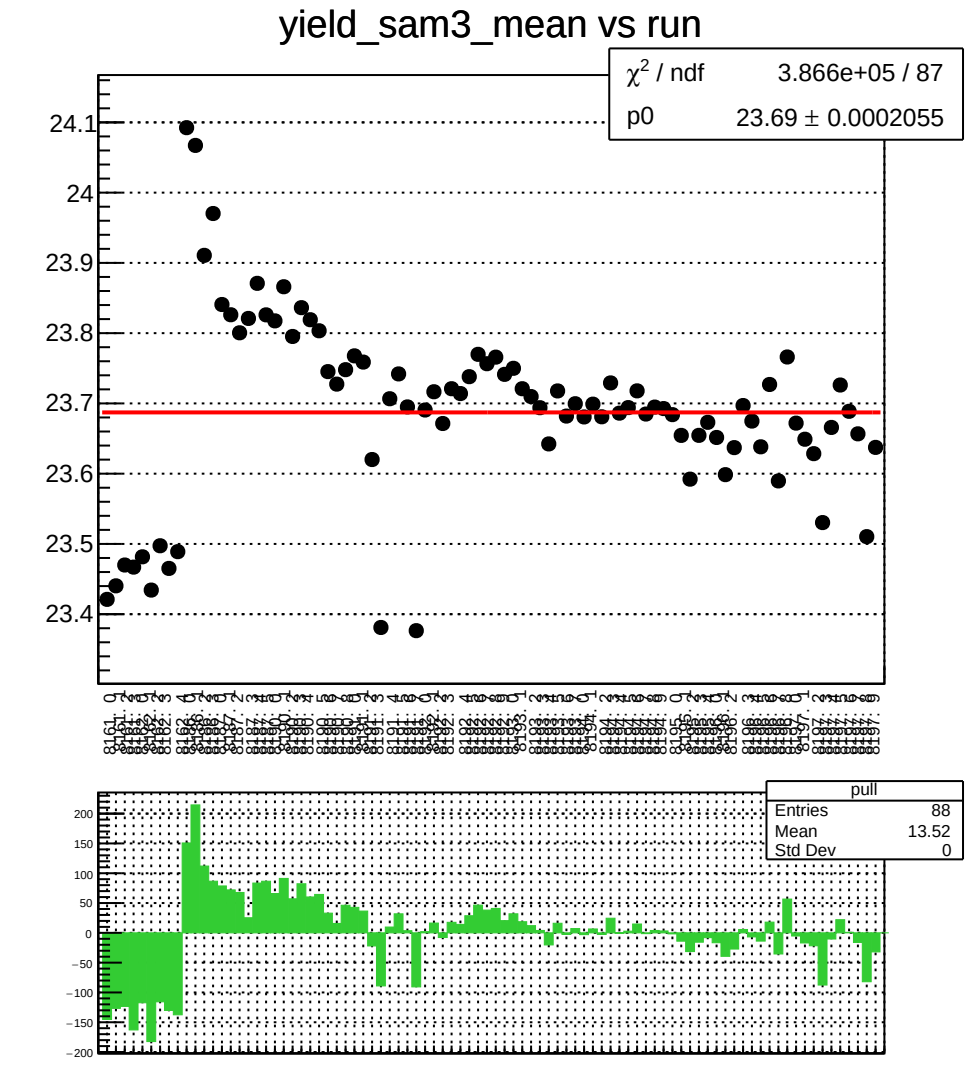

pull1D
Entries 88
Mean 3.732
Std Dev 2.202
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

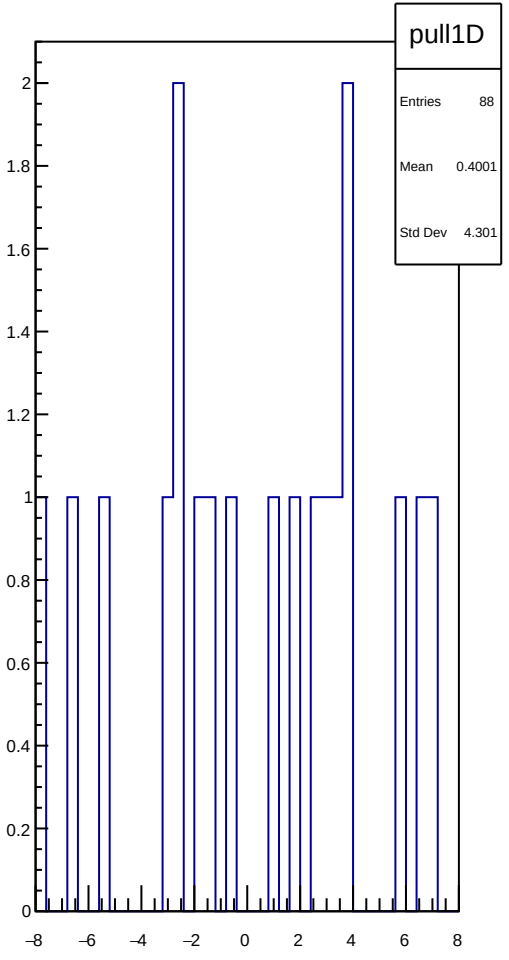

yield_sam1_rms vs run
χ² / ndf 8.066e+04 / 87
p0 0.01344 ± 1.067e−05
0.05
0.04
0.03
0.02
0.01

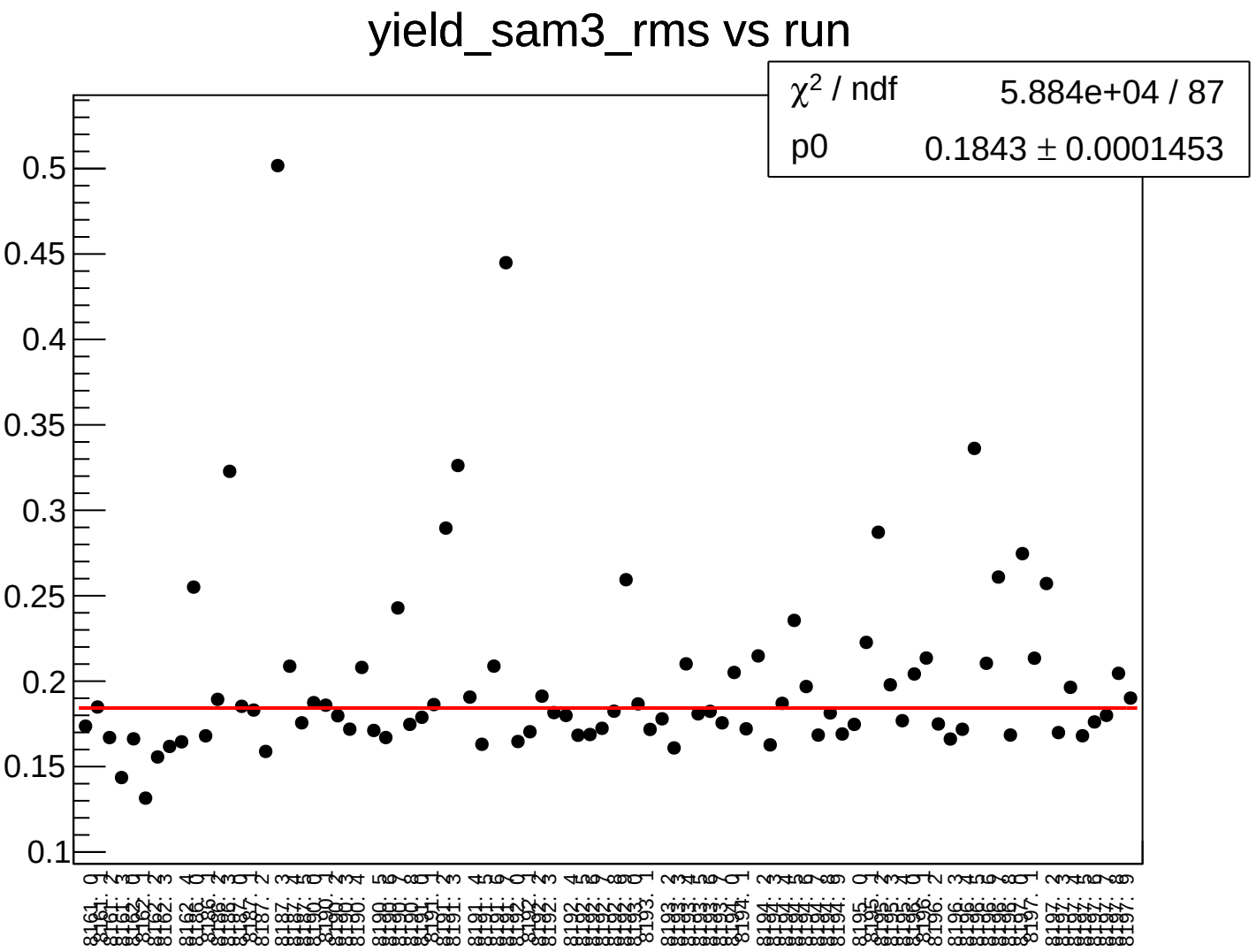

yield_sam2_mean vs run
χ² / ndf 1.593e+05 / 87
p0 24.54 ± 0.0002996
24.8
24.6
24.4
24.2
24
23.8
pull
Entries 88
Mean −370.2
Std Dev 0
100
50
0
−50
−100
−150

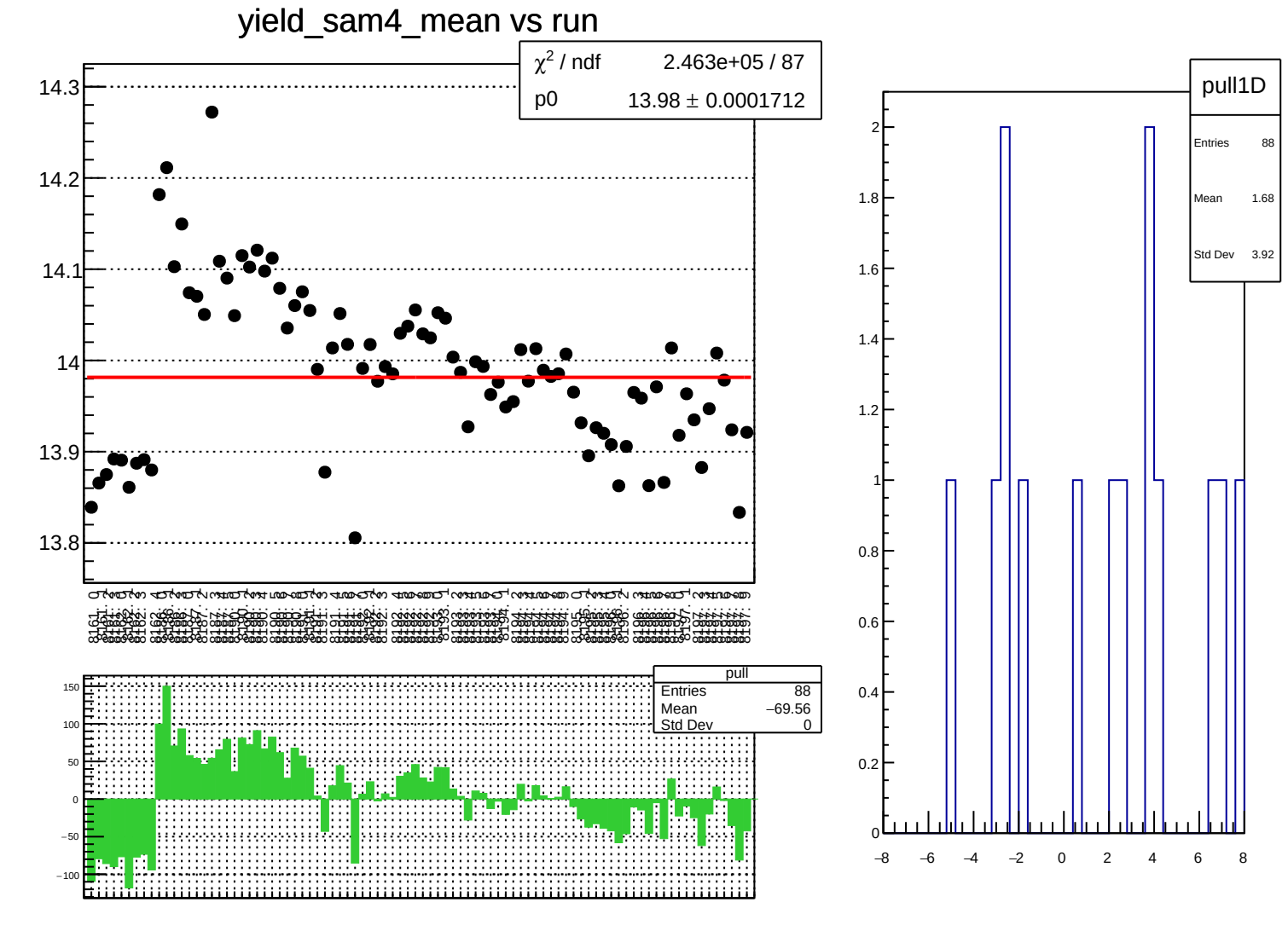

pull1D
Entries 88
Mean −0.164
Std Dev 4.224
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

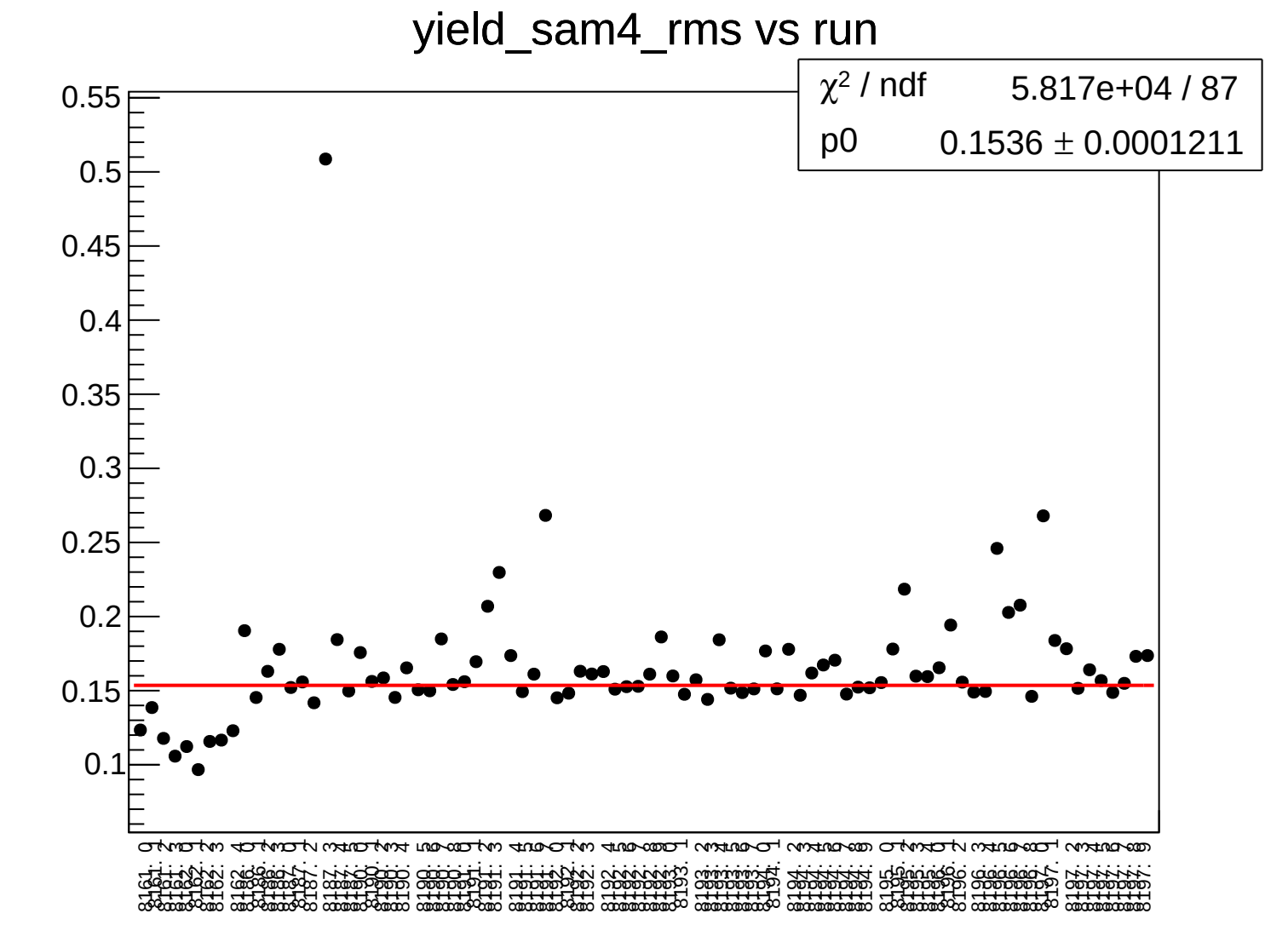

yield_sam2_rms vs run
χ^2 / ndf 7.229e+04 / 87
p0 0.2675 ± 0.0002118
0.8
0.7
0.6
0.5
0.4
0.3
0.2

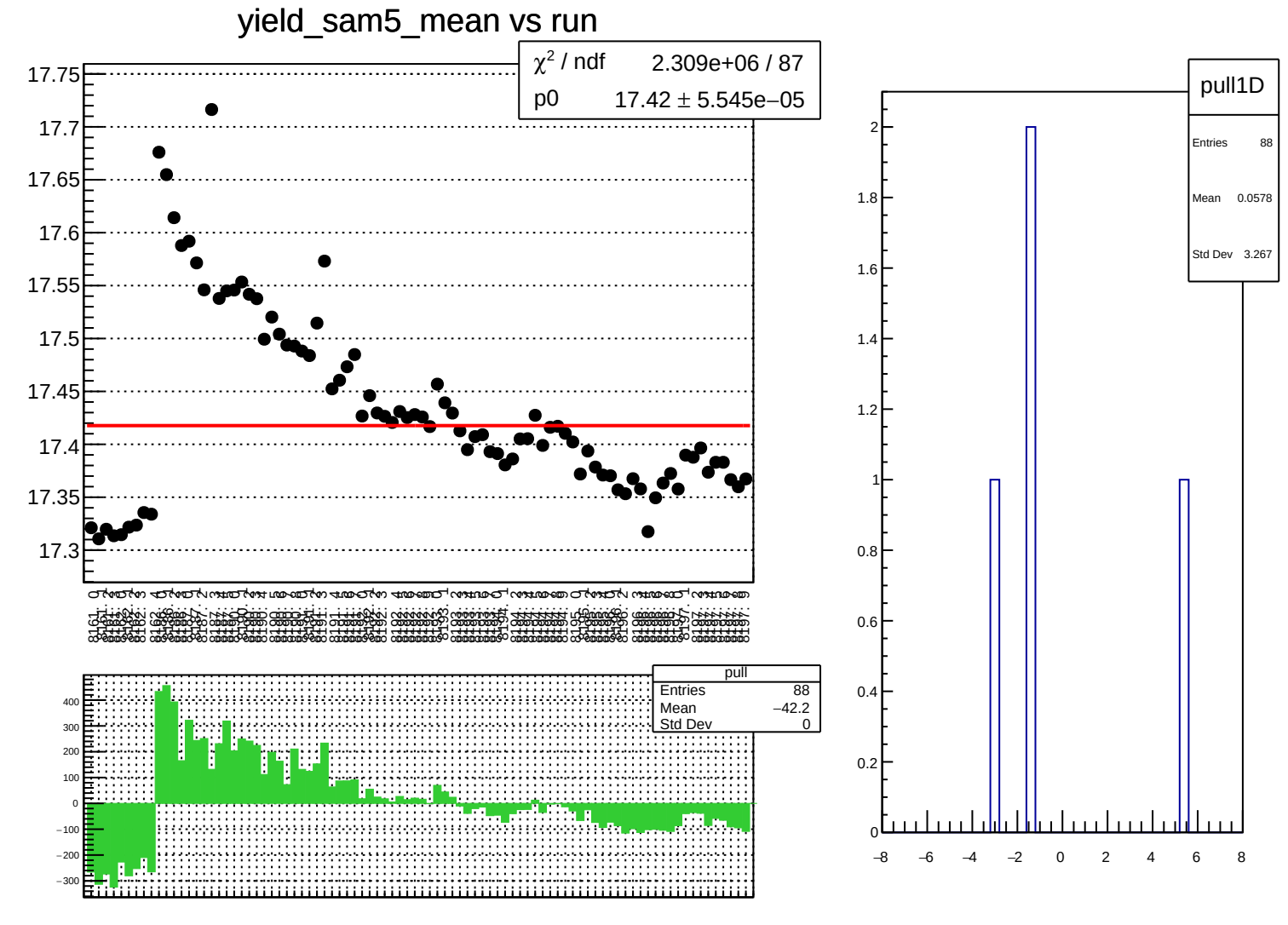

yield_sam3_mean vs run
χ² / ndf 3.866e+05 / 87
p0 23.69 ± 0.0002055
24.1
24
23.9
23.8
23.7
23.6
23.5
23.4
pull
Entries 88
Mean 13.52
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

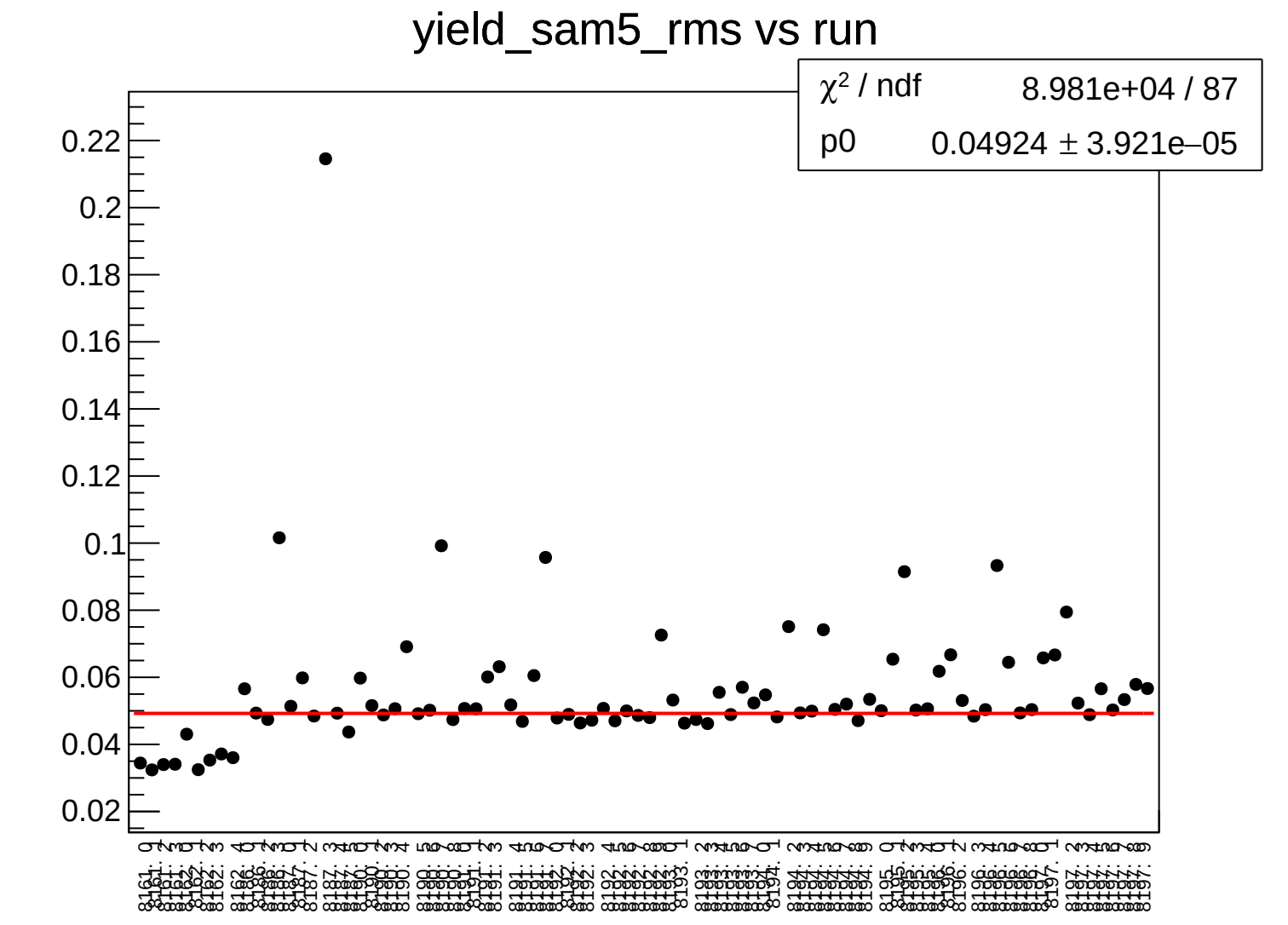

pull1D
Entries 88
Mean 0.4001
Std Dev 4.301
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

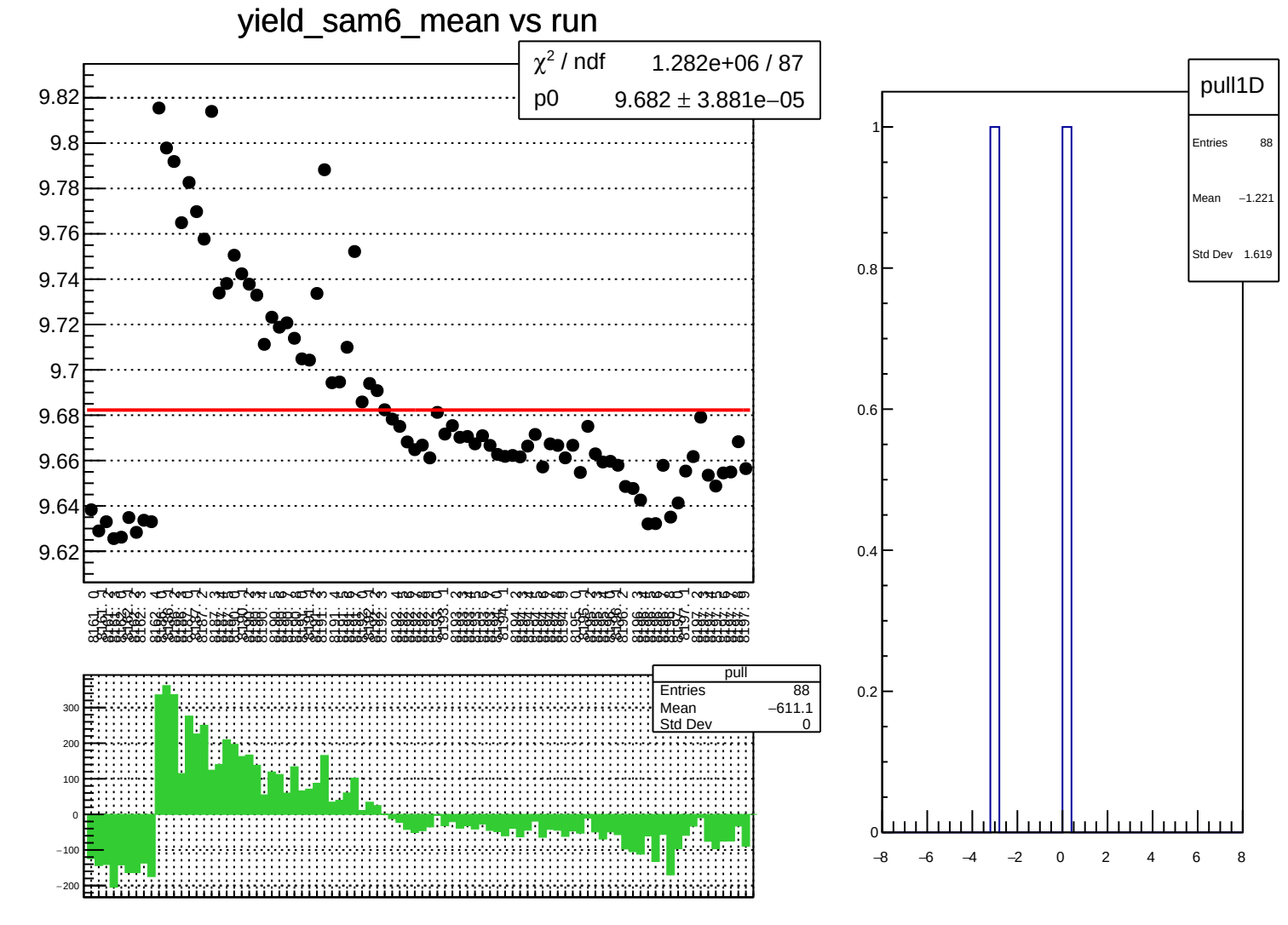

yield_sam3_rms vs run
χ² / ndf 5.884e+04 / 87
p0 0.1843 ± 0.0001453
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

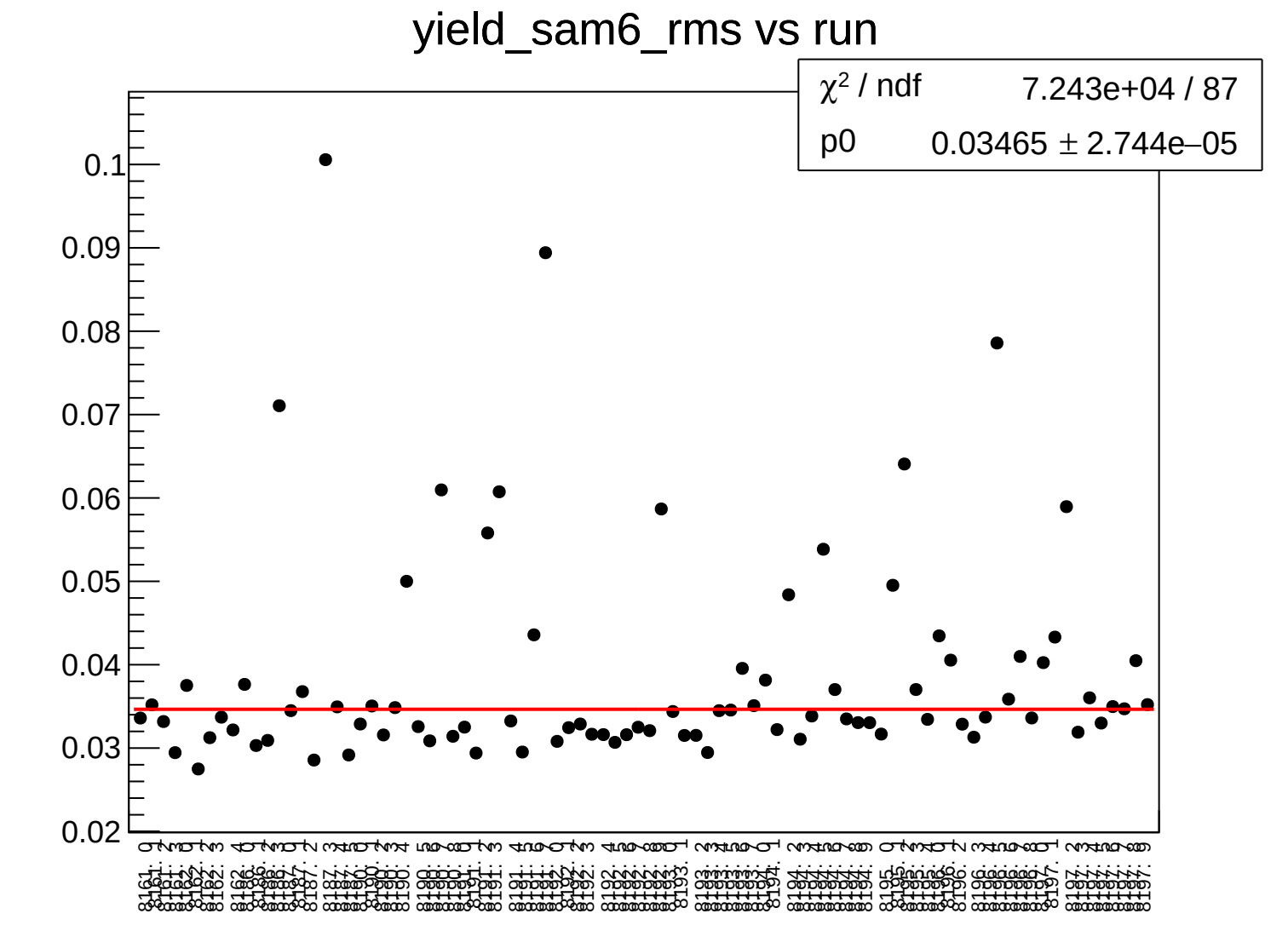

yield_sam4_mean vs run
χ² / ndf 2.463e+05 / 87
p0 13.98 ± 0.0001712
14.3
14.2
14.1
14
13.9
13.8
pull
Entries 88
Mean −69.56
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 88
Mean 1.68
Std Dev 3.92
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

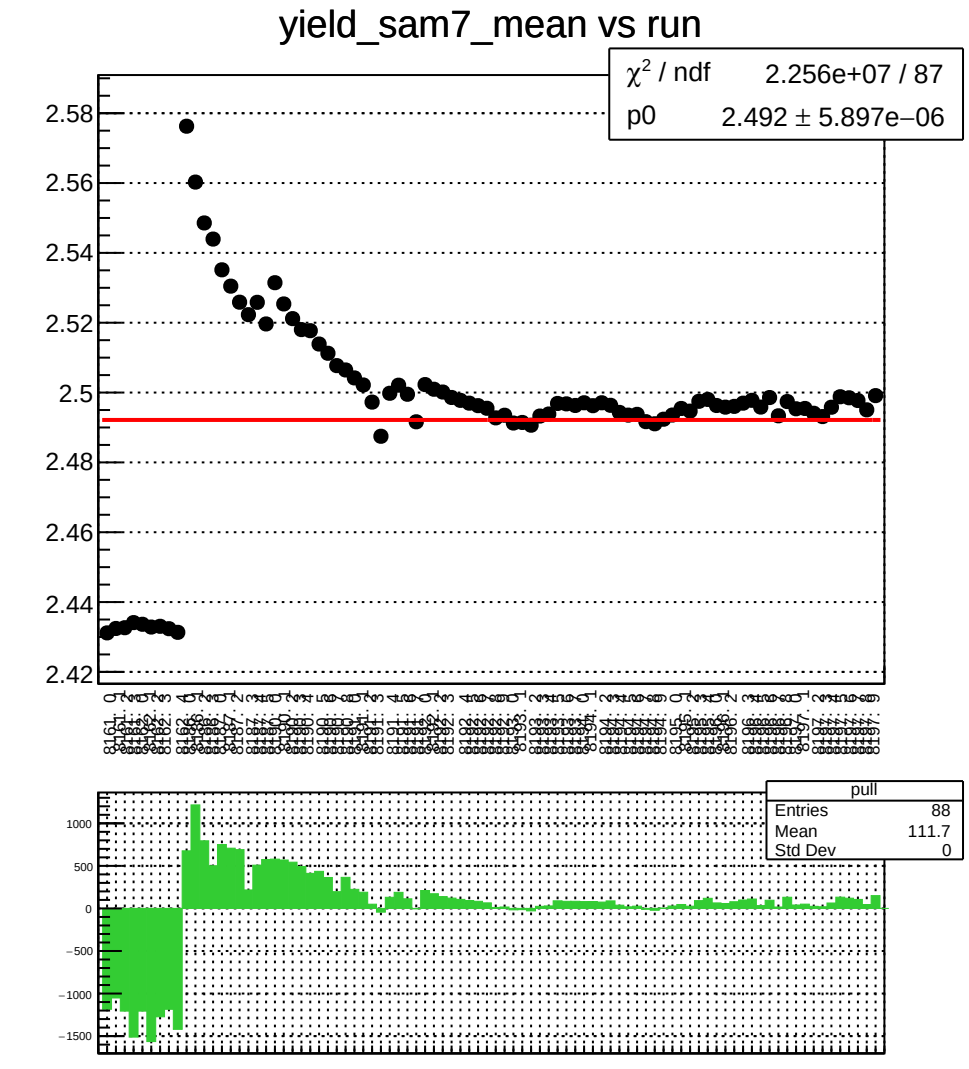

yield_sam4_rms vs run
χ² / ndf 5.817e+04 / 87
p0 0.1536 ± 0.0001211
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

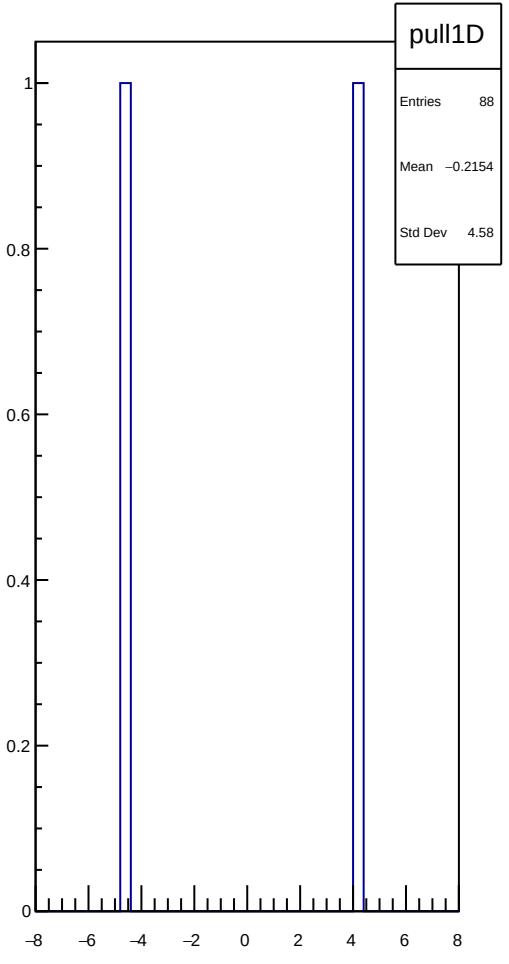

yield_sam5_mean vs run
χ² / ndf 2.309e+06 / 87
p0 17.42 ± 5.545e−05
17.75
17.7
17.65
17.6
17.55
17.5
17.45
17.4
17.35
17.3
pull
Entries 88
Mean −42.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean 0.0578
Std Dev 3.267
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

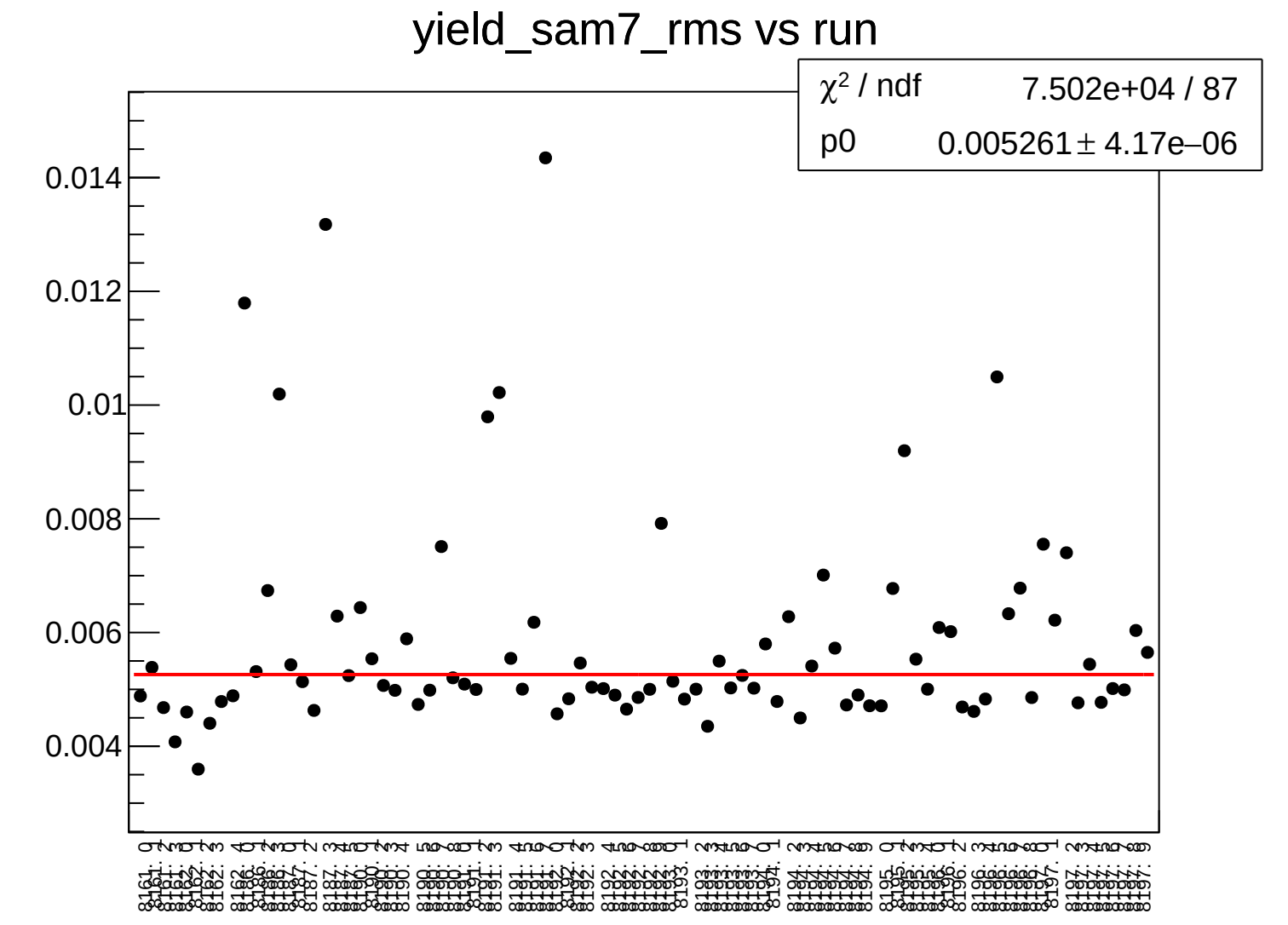

yield_sam5_rms vs run
χ² / ndf 8.981e+04 / 87
p0 0.04924 ± 3.921e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

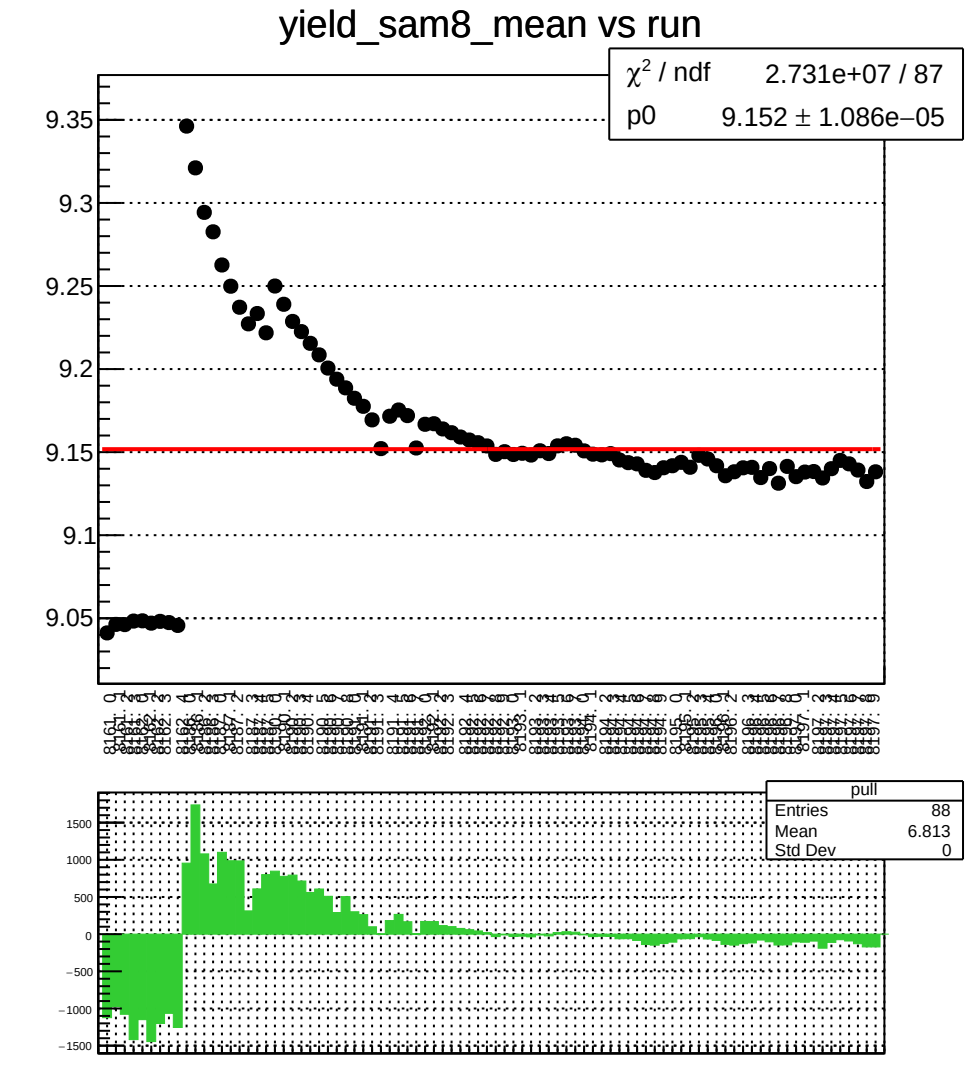

yield_sam6_mean vs run
χ^2 / ndf 1.282e+06 / 87
p0 9.682 ± 3.881e−05
9.82
9.8
9.78
9.76
9.74
9.72
9.7
9.68
9.66
9.64
9.62
pull
Entries 88
Mean −611.1
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 88
Mean −1.221
Std Dev 1.619
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

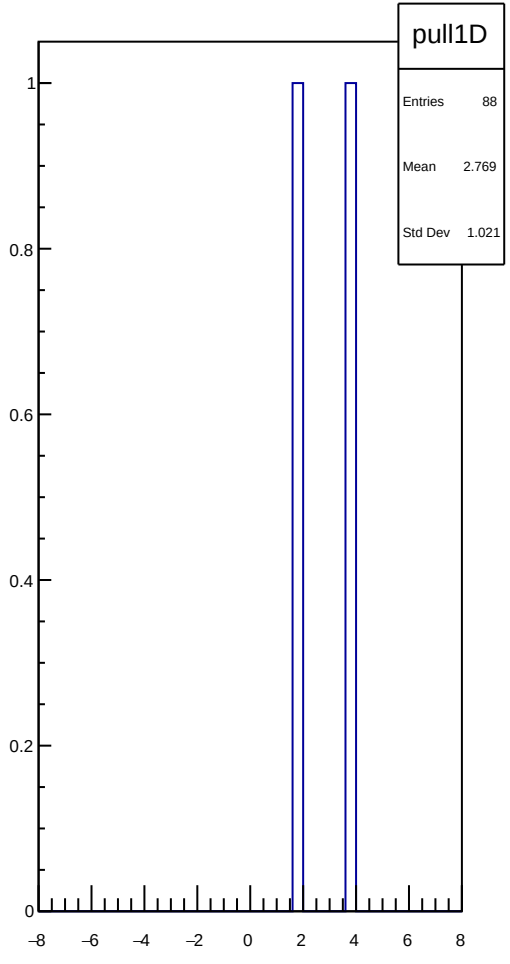

yield_sam6_rms vs run
χ² / ndf 7.243e+04 / 87
p0 0.03465 ± 2.744e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

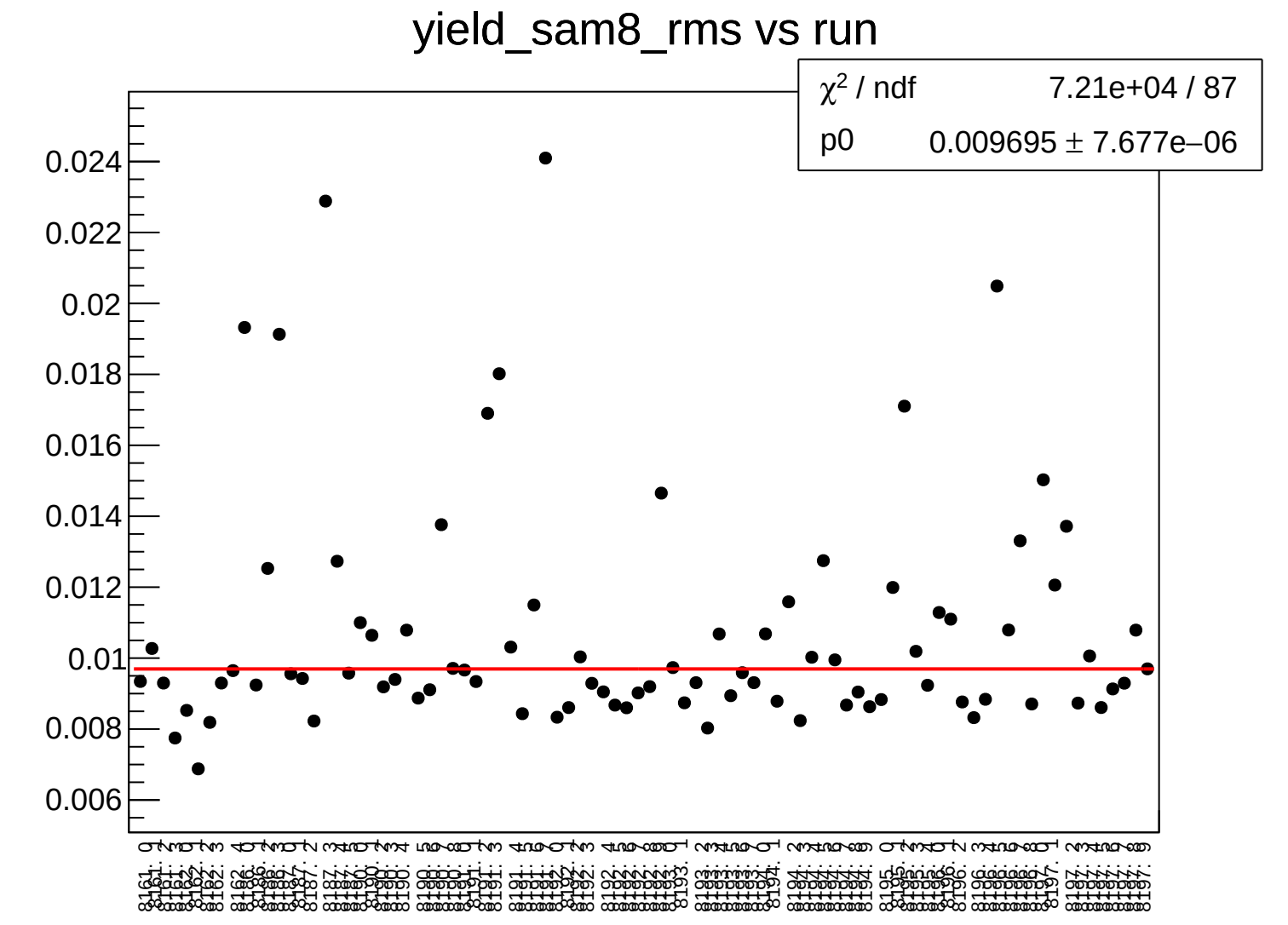

yield_sam7_mean vs run
χ² / ndf 2.256e+07 / 87
p0 2.492 ± 5.897e−06
2.58
2.56
2.54
2.52
2.5
2.48
2.46
2.44
2.42
pull
Entries 88
Mean 111.7
Std Dev 0
1000
500
0
−500
−1000
−1500

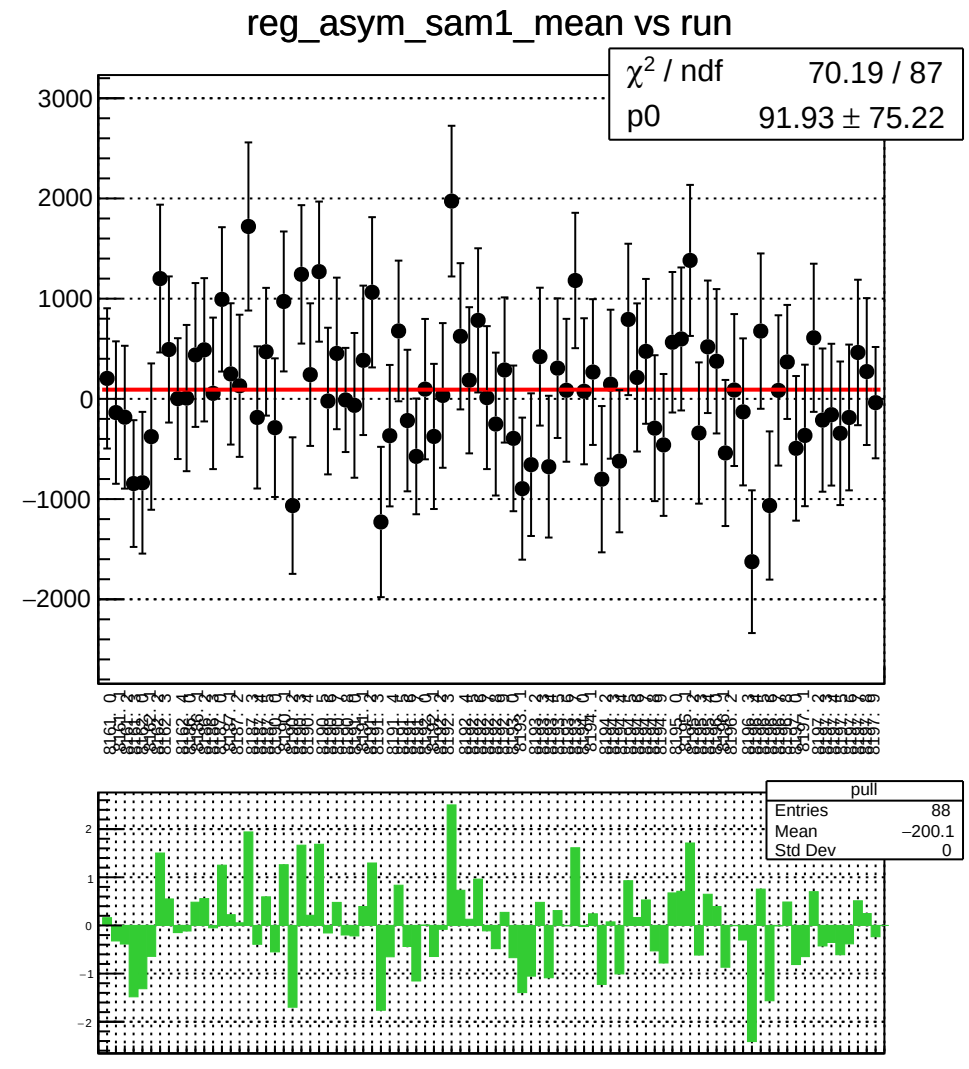

pull1D
Entries 88
Mean −0.2154
Std Dev 4.58
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

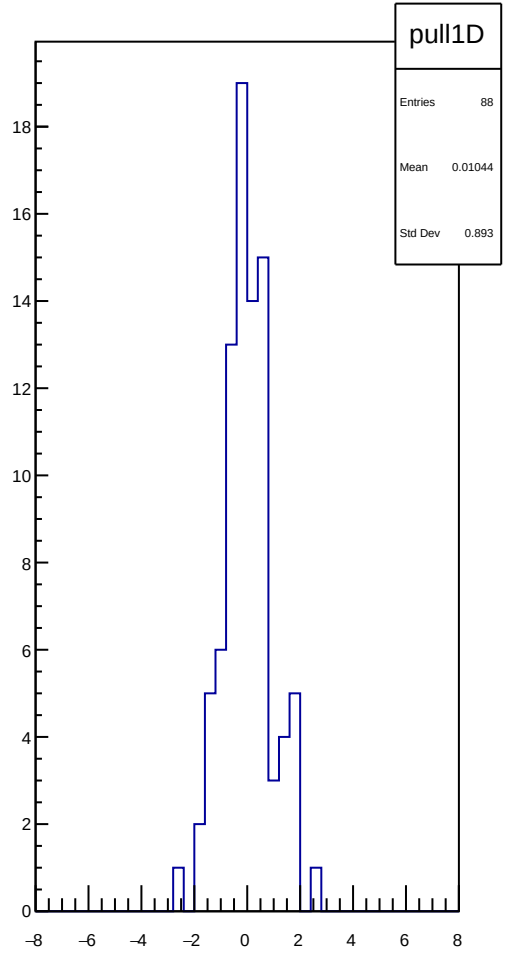

yield_sam7_rms vs run
χ² / ndf 7.502e+04 / 87
p0 0.005261 ± 4.17e–06
0.014
0.012
0.01
0.008
0.006
0.004

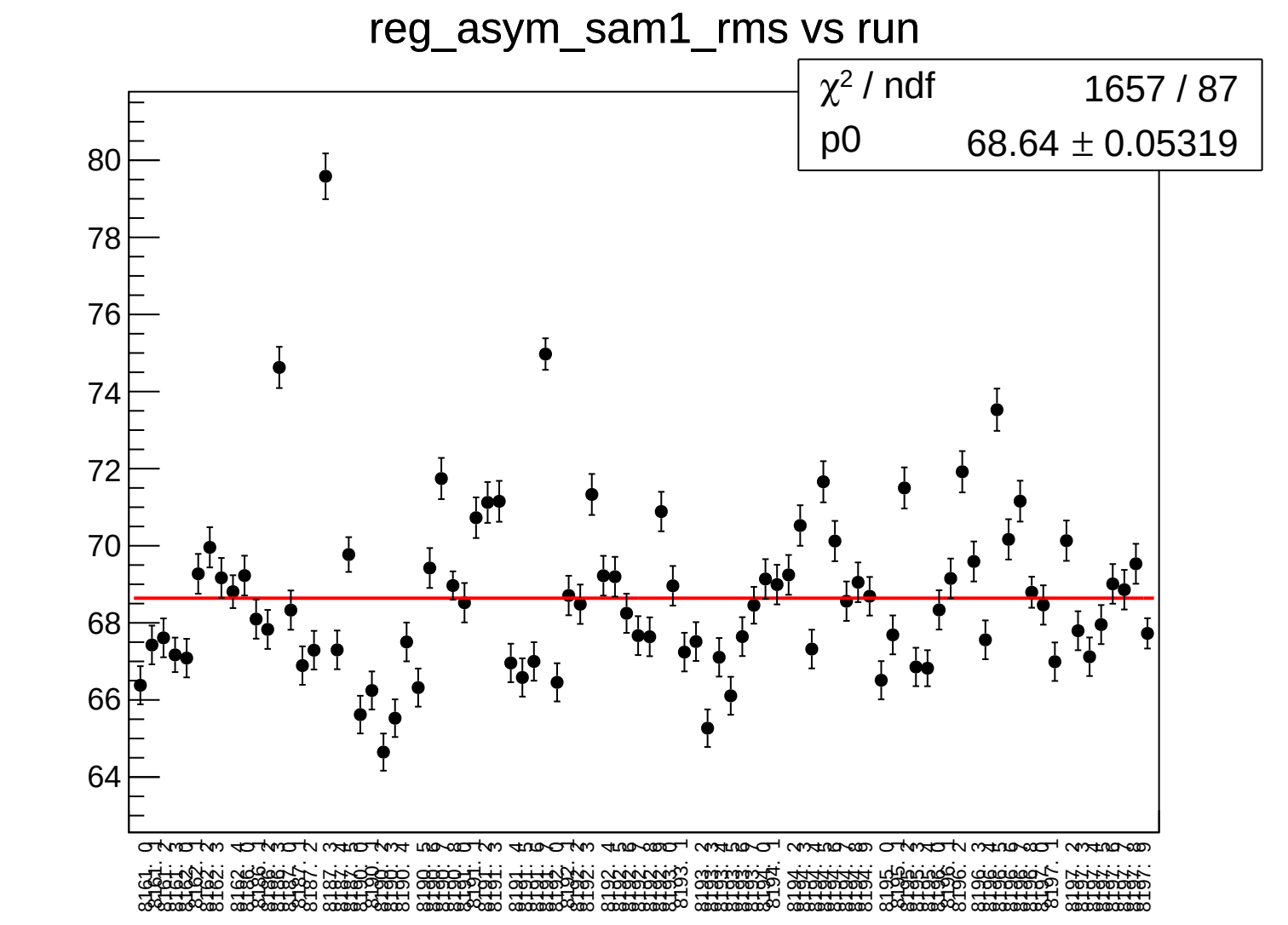

yield_sam8_mean vs run
χ² / ndf 2.731e+07 / 87
p0 9.152 ± 1.086e−05
9.35
9.3
9.25
9.2
9.15
9.1
9.05
pull
Entries 88
Mean 6.813
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

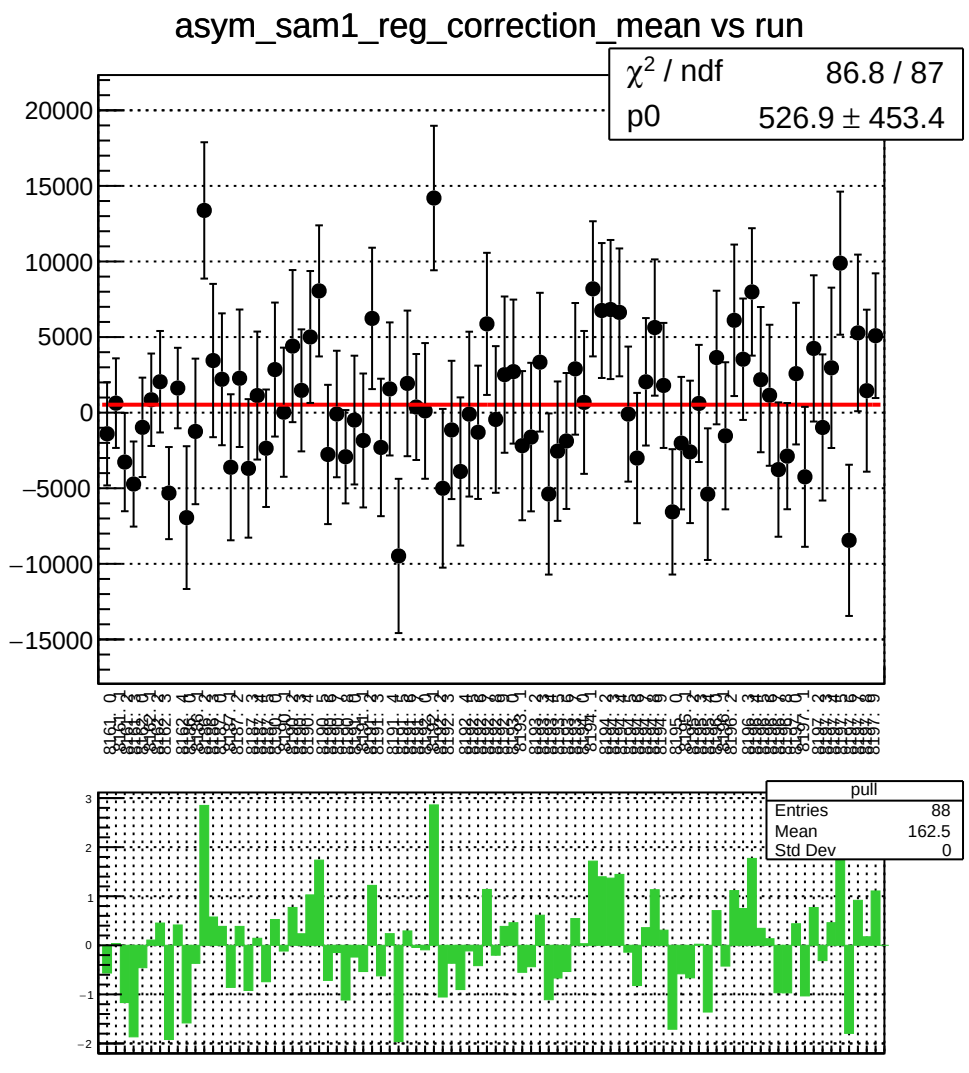

pull1D
Entries 88
Mean 2.769
Std Dev 1.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

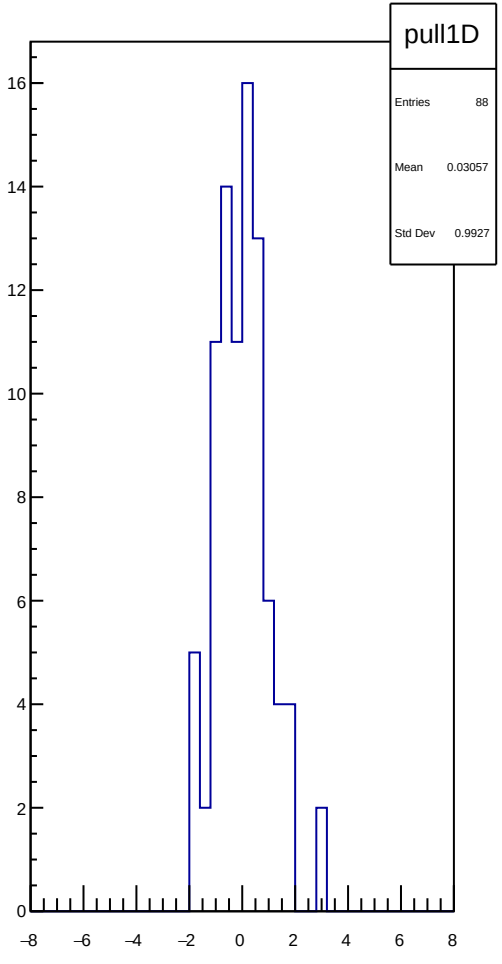

yield_sam8_rms vs run
χ^2 / ndf 7.21e+04 / 87
p0 0.009695 ± 7.677e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

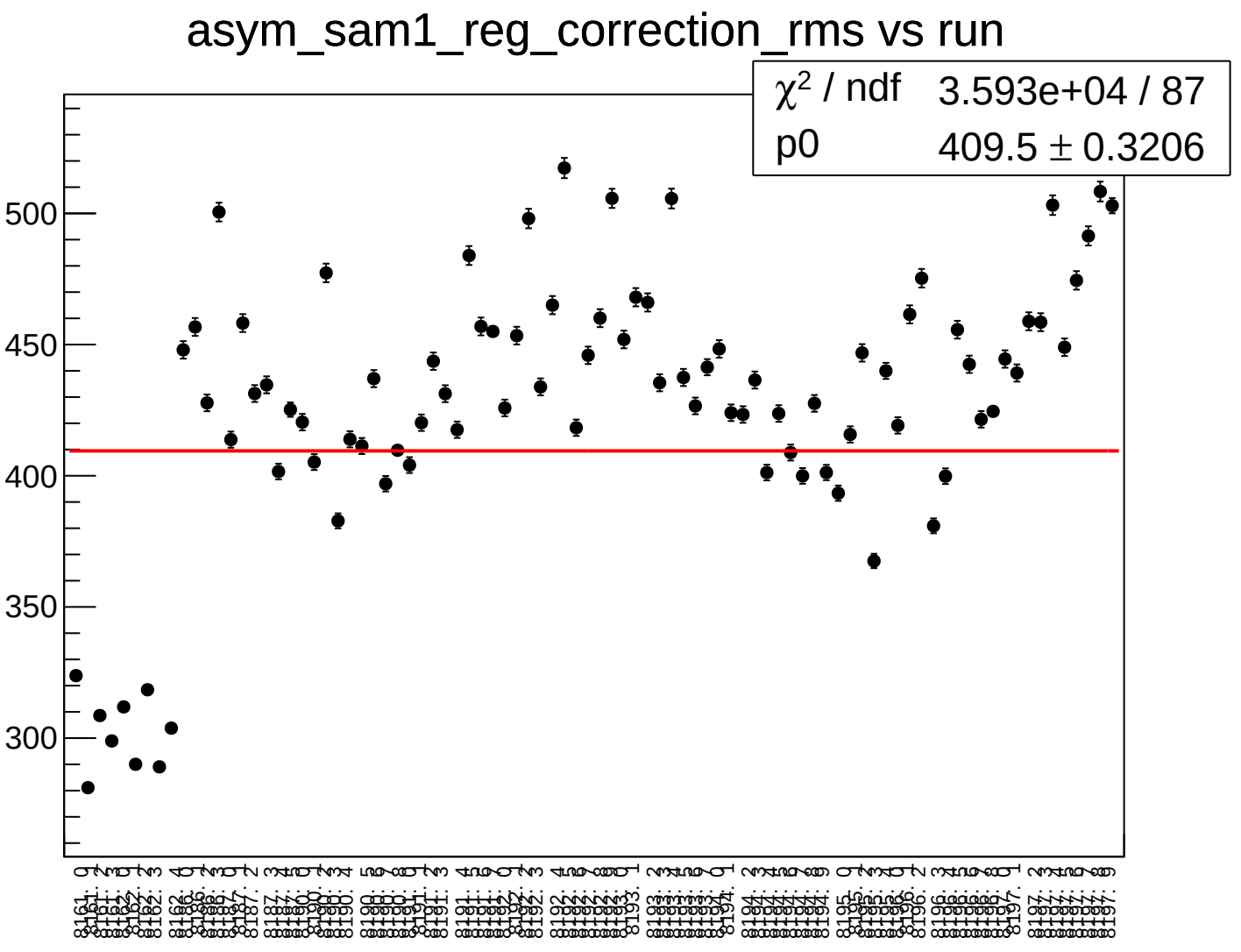

reg_asym_sam1_mean vs run
χ^2 / ndf 70.19 / 87
p0 91.93 ± 75.22
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −200.1
Std Dev 0
2
1
0
−1
−2

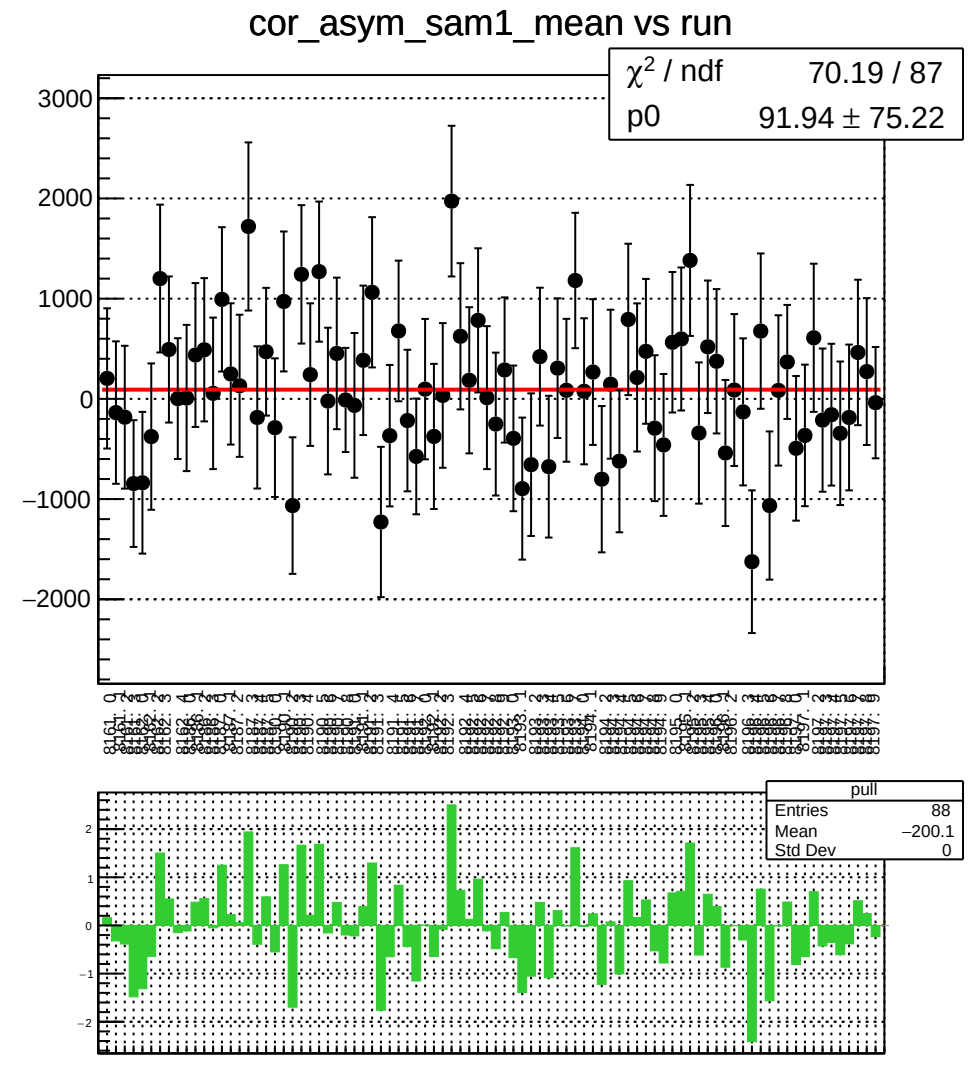

pull1D
Entries 88
Mean 0.01044
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

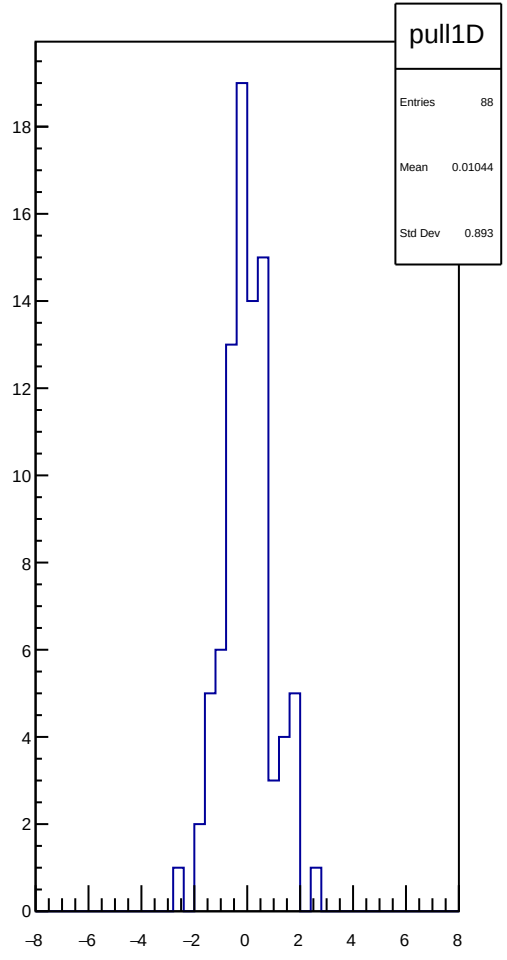

reg_asym_sam1_rms vs run
χ² / ndf 1657 / 87
p0 68.64 ± 0.05319
80
78
76
74
72
70
68
66
64

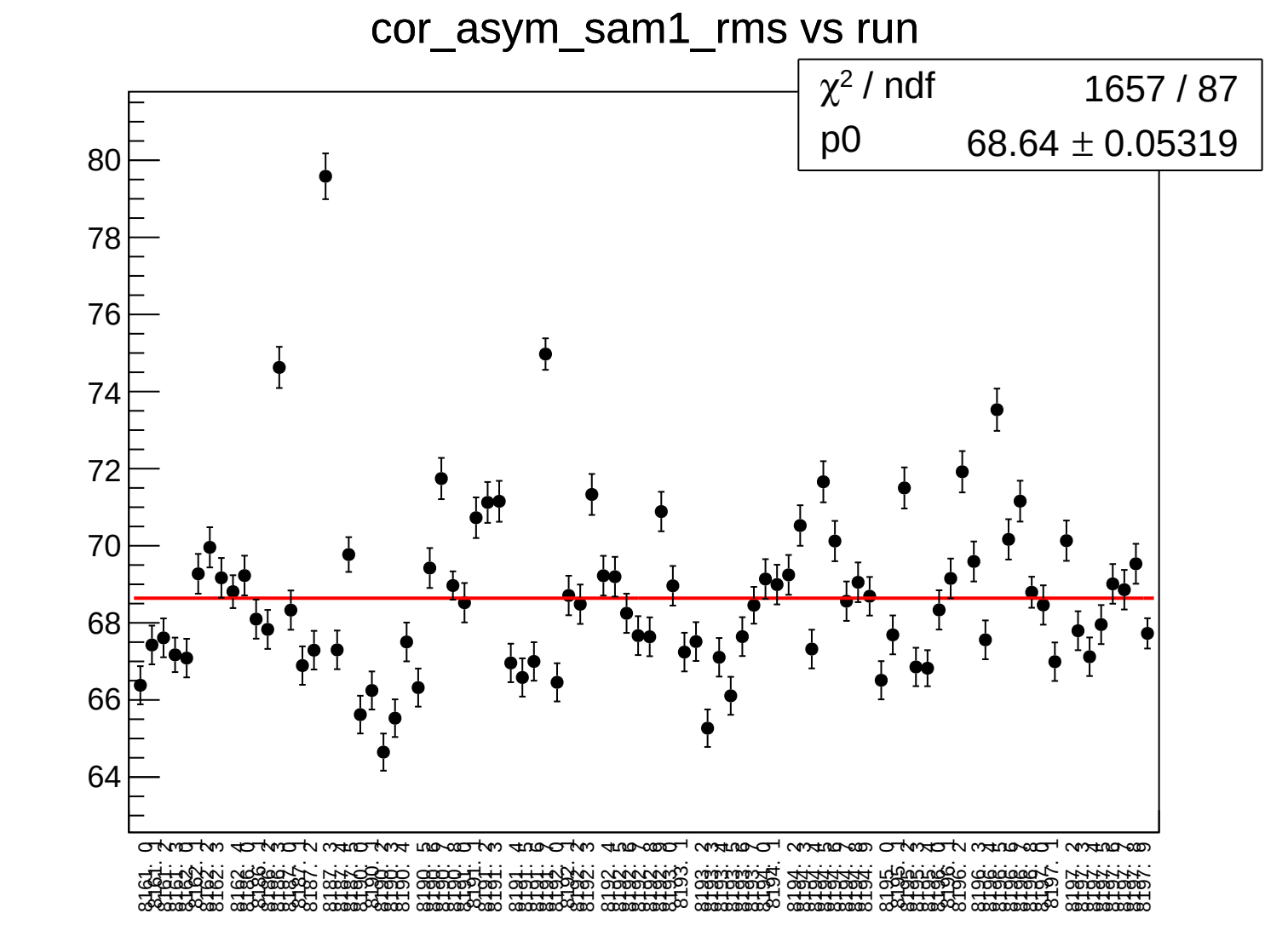

asym_sam1_reg_correction_mean vs run
χ² / ndf 86.8 / 87
p0 526.9 ± 453.4
pull
Entries 88
Mean 162.5
Std Dev 0

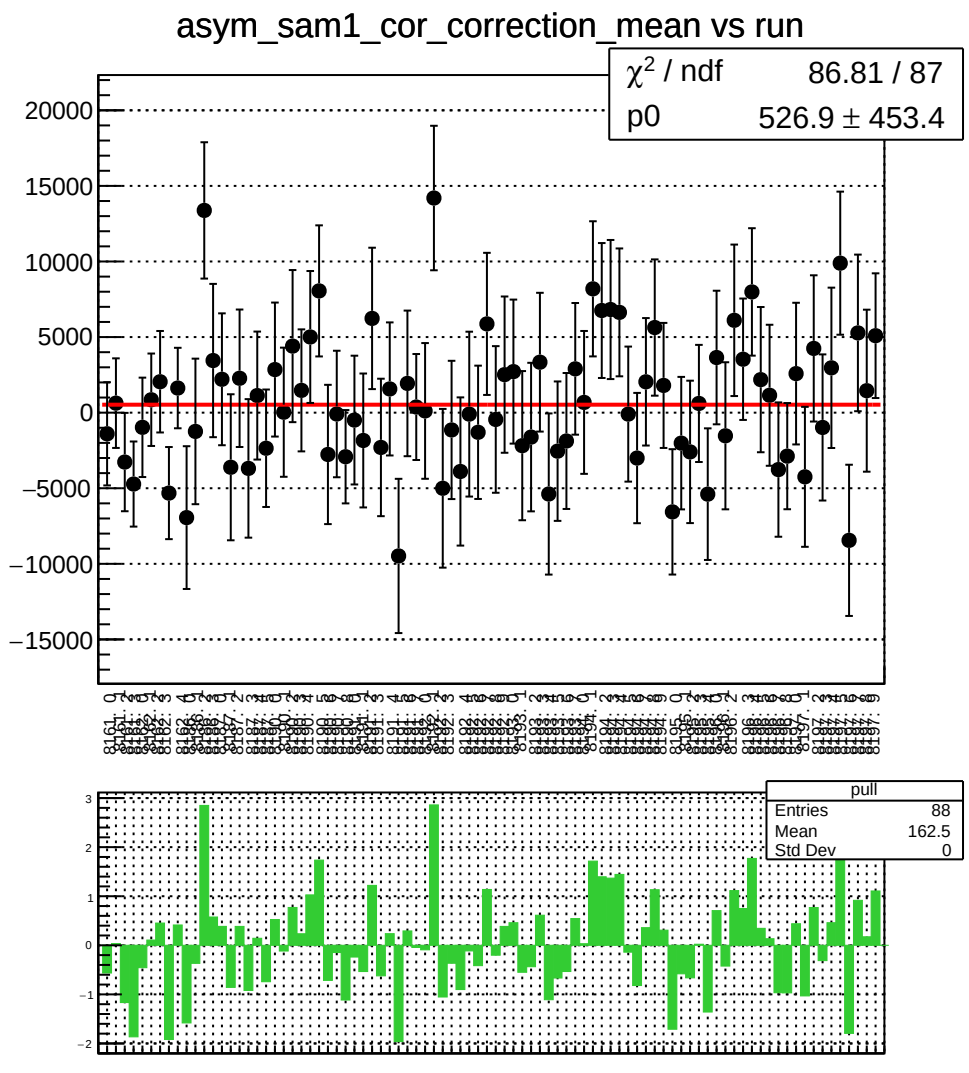

pull1D
Entries 88
Mean 0.03057
Std Dev 0.9927

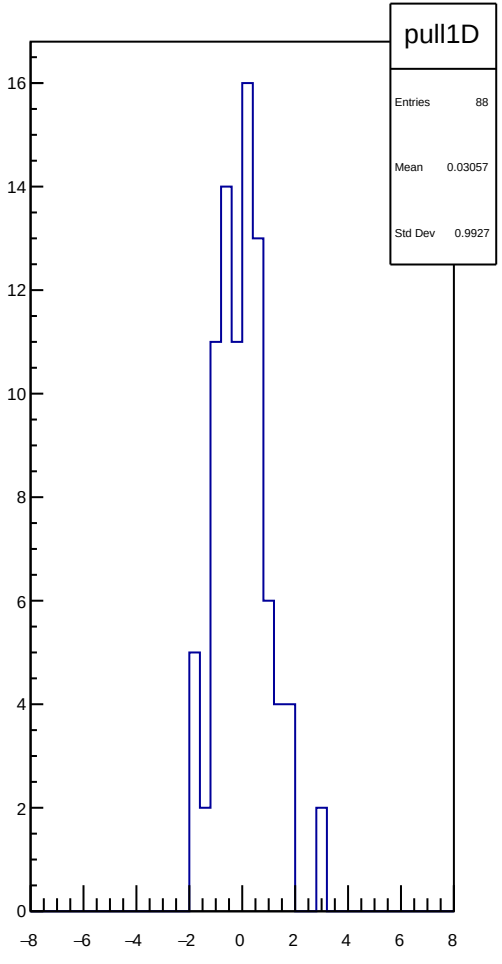

asym_sam1_reg_correction_rms vs run
χ² / ndf 3.593e+04 / 87
p0 409.5 ± 0.3206
500
450
400
350
300

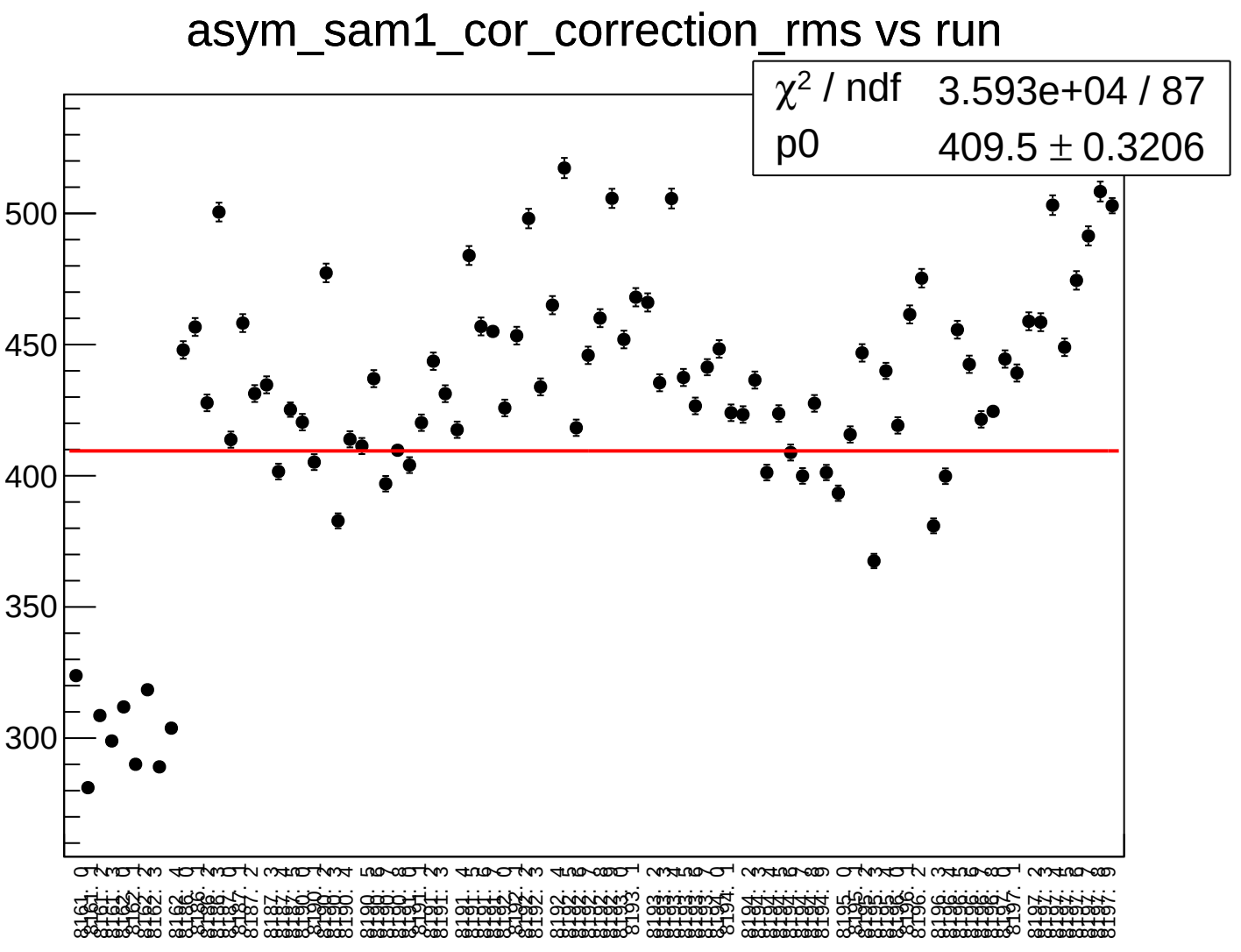

cor_asym_sam1_mean vs run
χ² / ndf 70.19 / 87
p0 91.94 ± 75.22
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −200.1
Std Dev 0
2
1
0
−1
−2

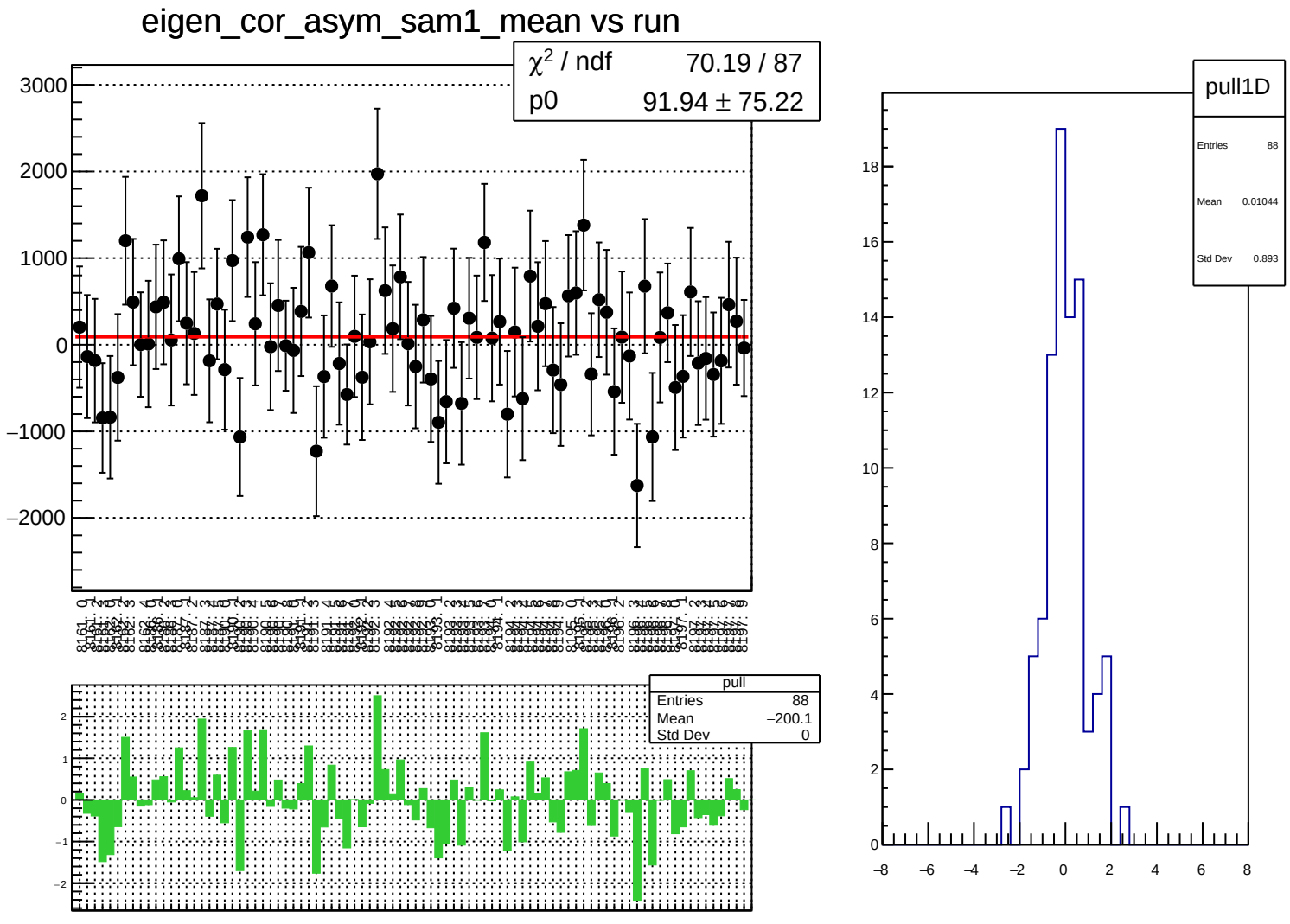

pull1D
Entries 88
Mean 0.01044
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

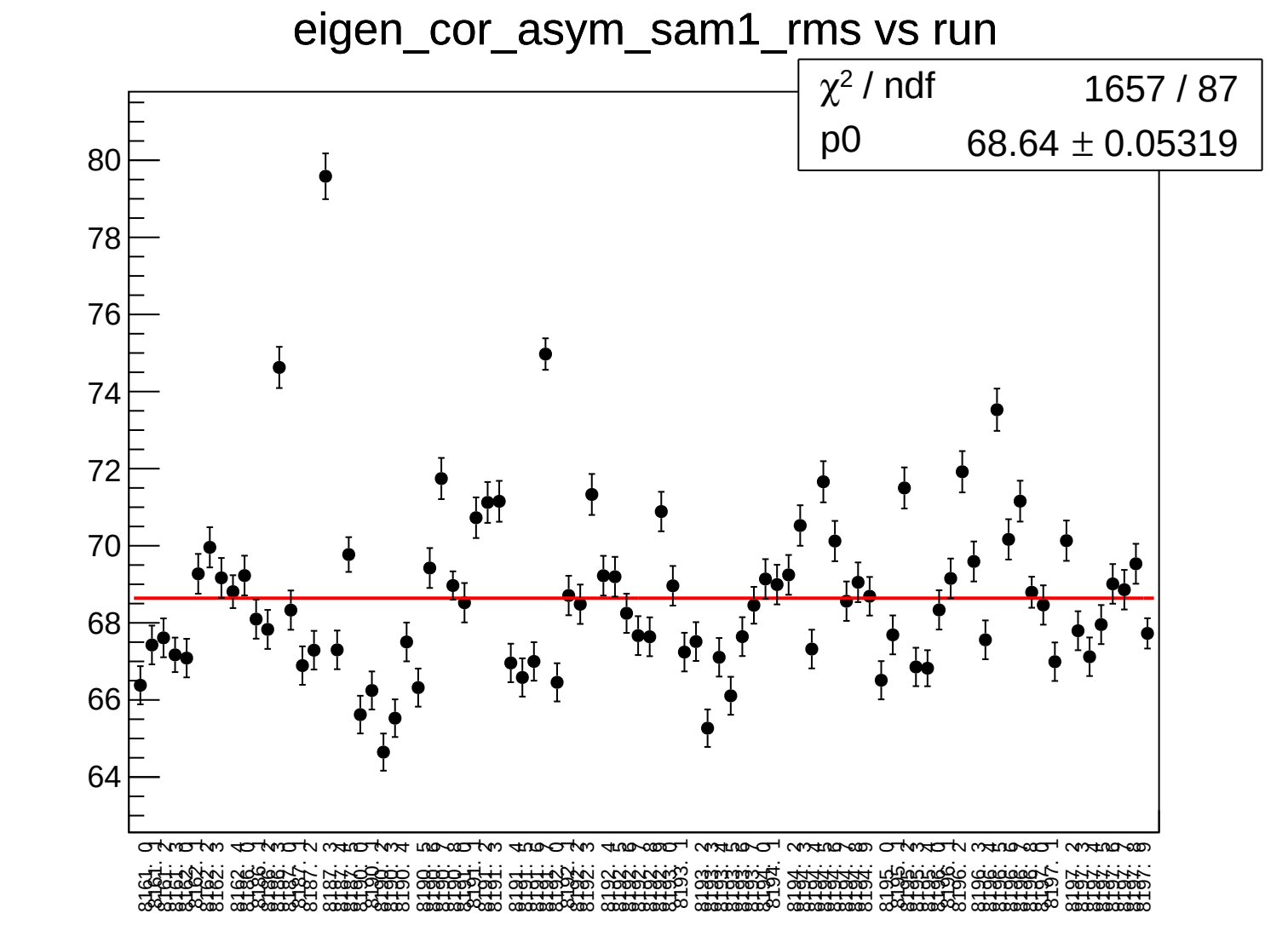

cor_asym_sam1_rms vs run
χ^2 / ndf 1657 / 87
p0 68.64 ± 0.05319
80
78
76
74
72
70
68
66
64

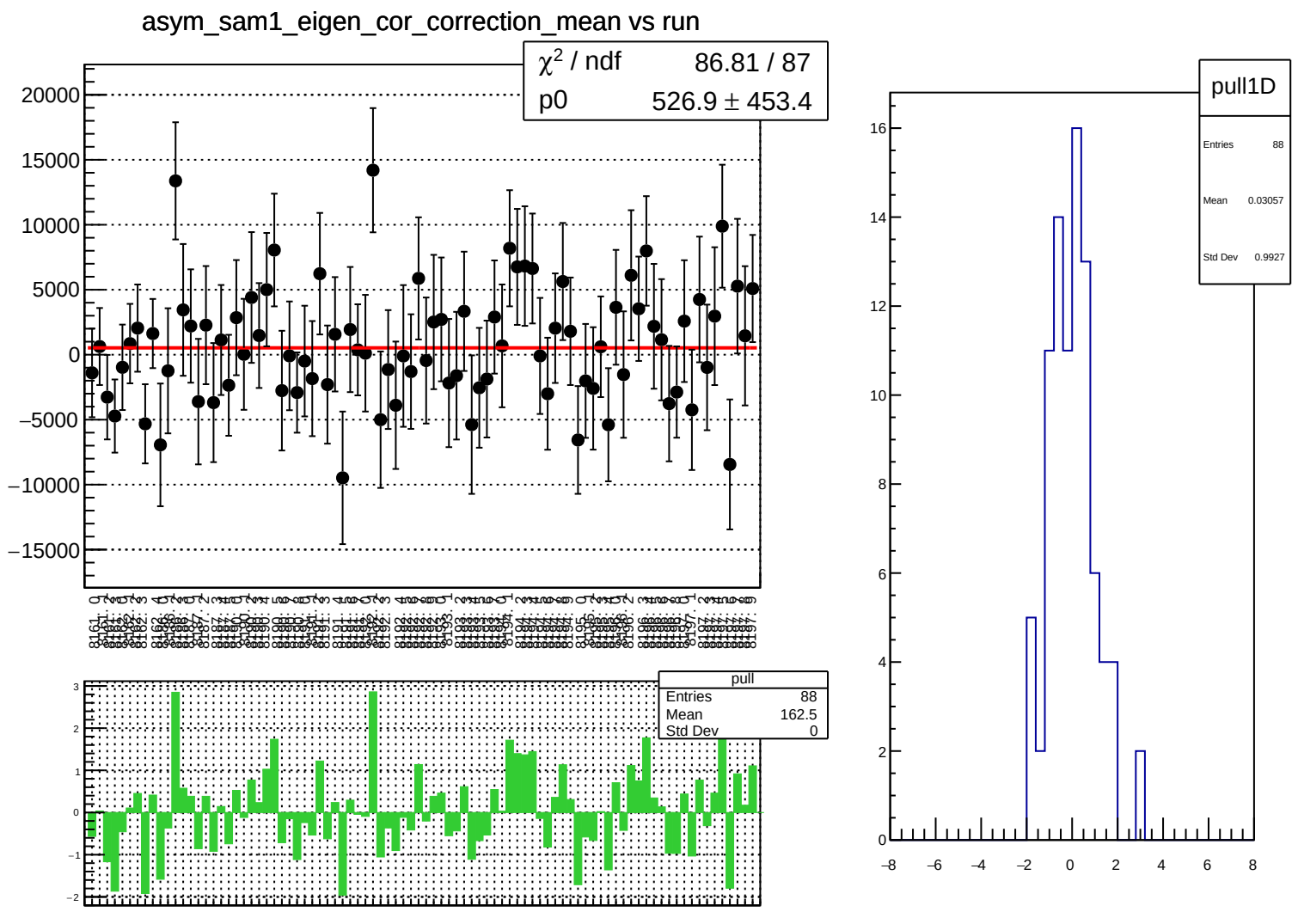

asym_sam1_cor_correction_mean vs run
χ² / ndf 86.81 / 87
p0 526.9 ± 453.4
pull
Entries 88
Mean 162.5
Std Dev 0

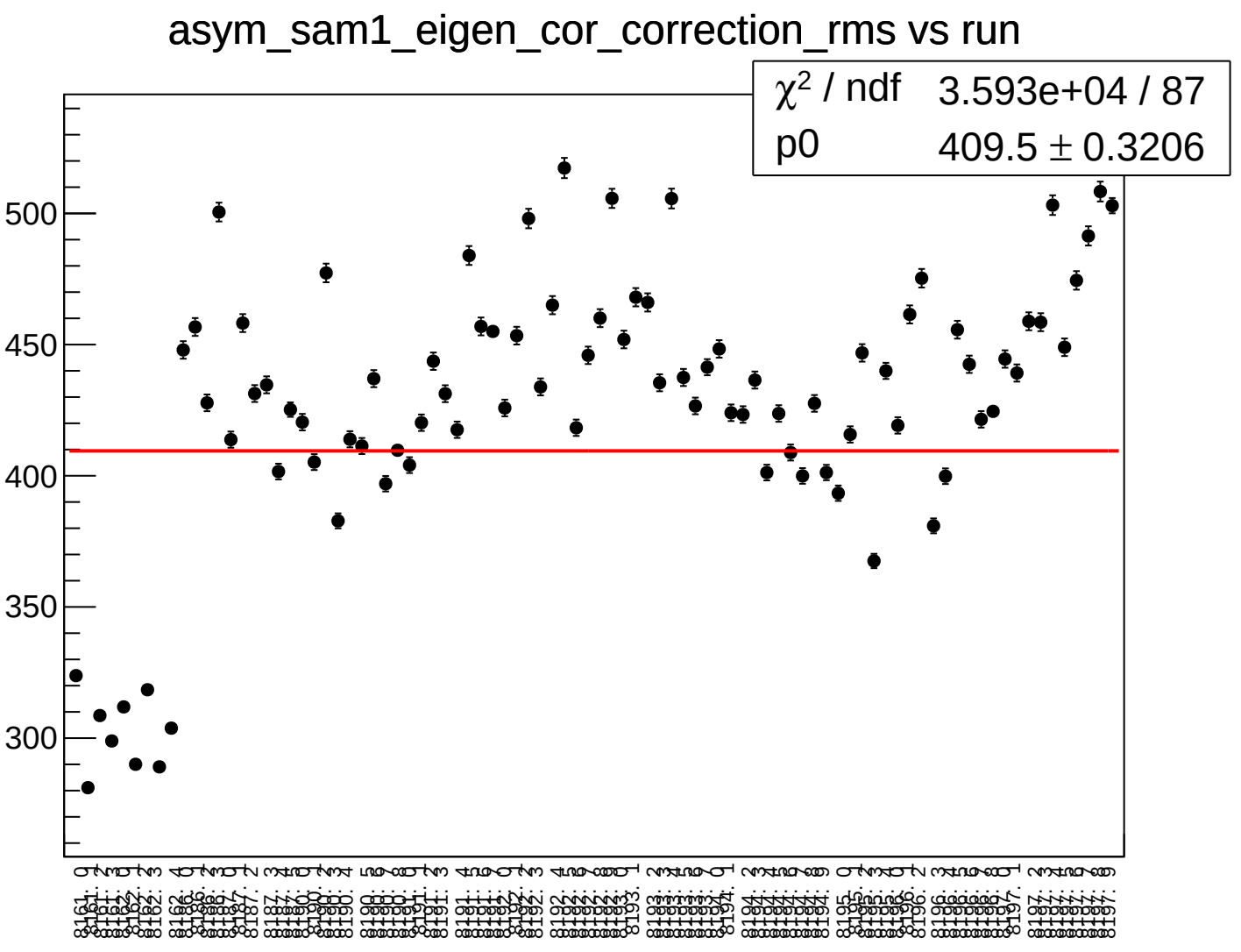

pull1D
Entries 88
Mean 0.03057
Std Dev 0.9927

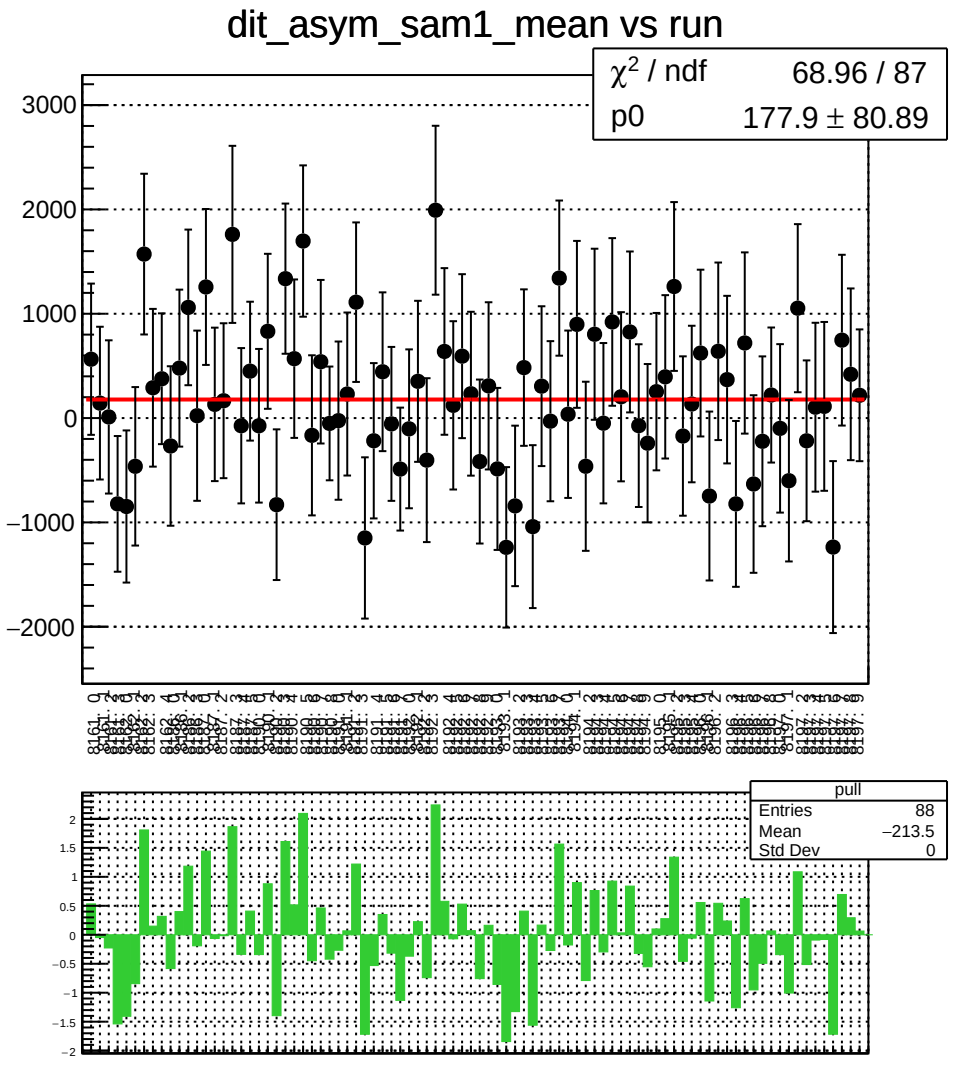

asym_sam1_cor_correction_rms vs run
χ² / ndf 3.593e+04 / 87
p0 409.5 ± 0.3206
500
450
400
350
300

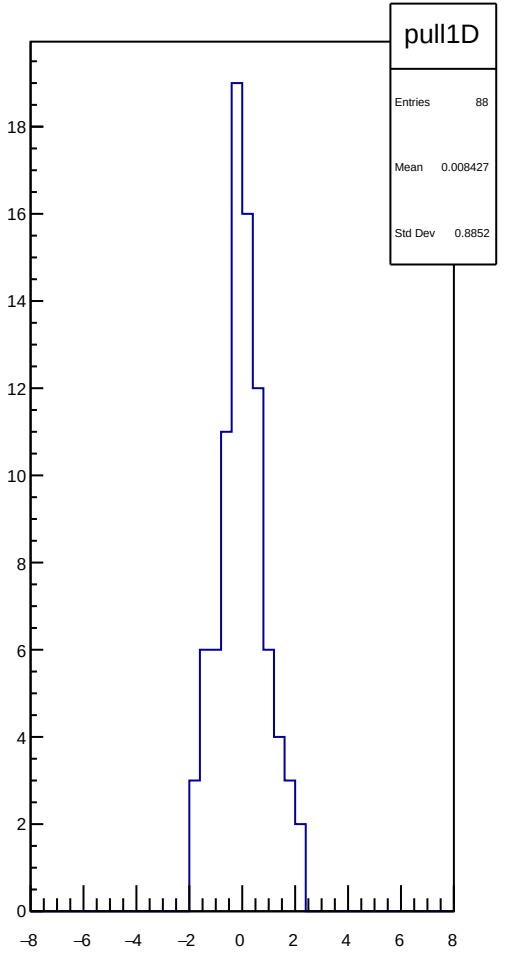

eigen_cor_asym_sam1_mean vs run
χ² / ndf 70.19 / 87
p0 91.94 ± 75.22
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −200.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01044
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

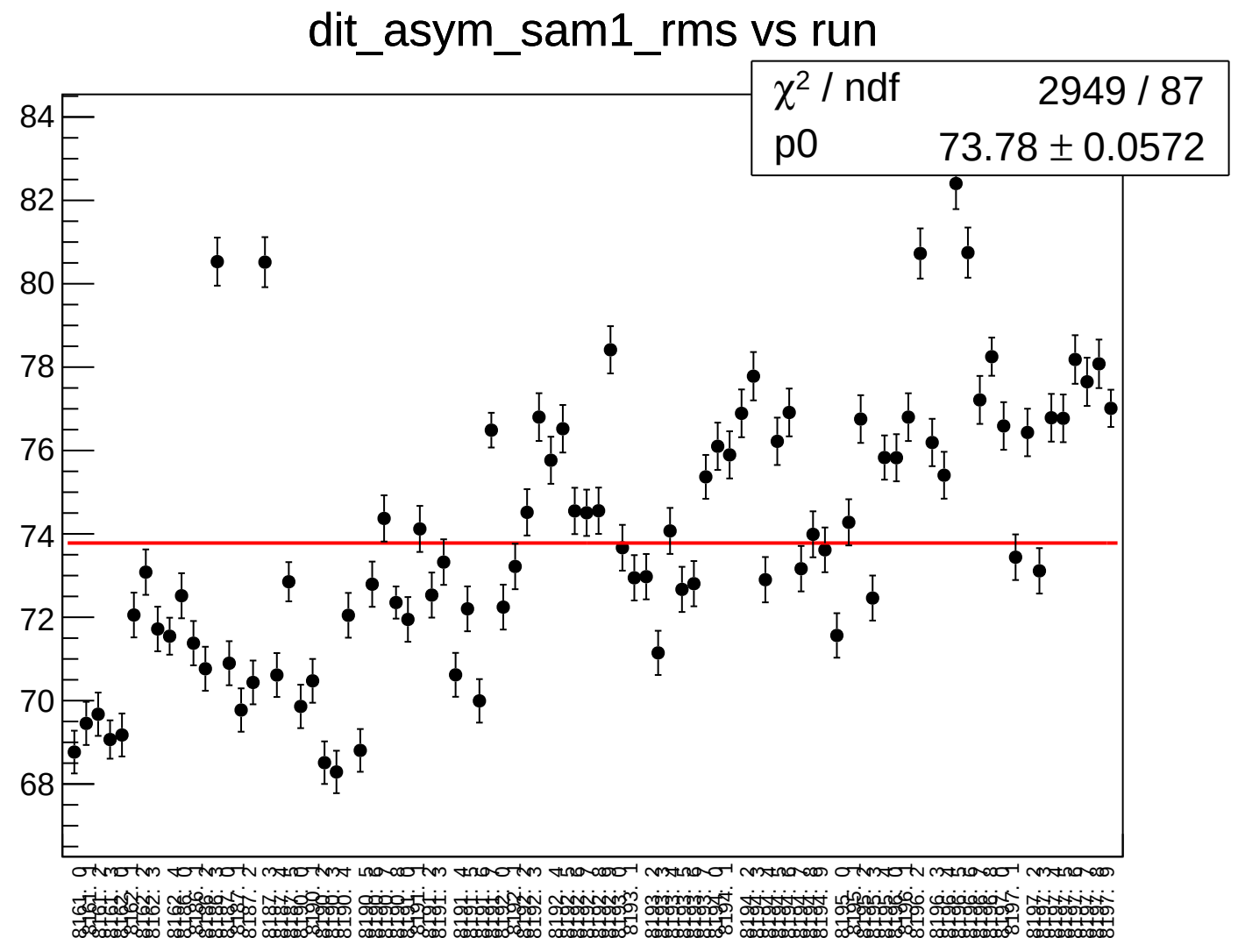

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1657 / 87
p0 68.64 ± 0.05319
80
78
76
74
72
70
68
66
64

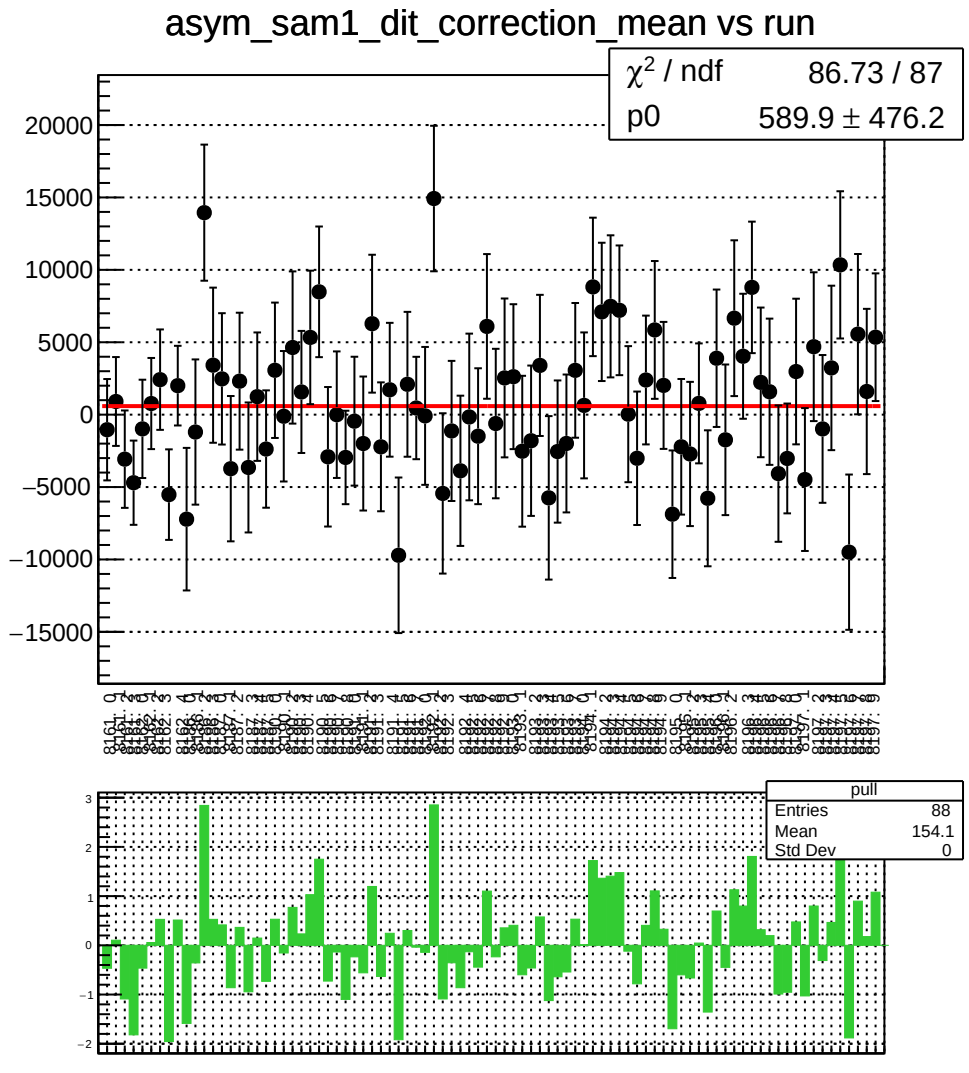

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 86.81 / 87
p0 526.9 ± 453.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 162.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.03057
Std Dev 0.9927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

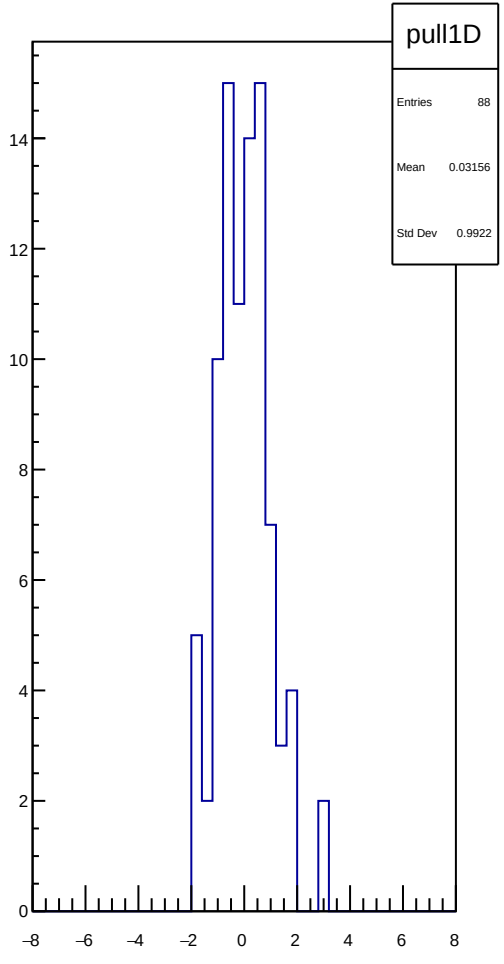

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 3.593e+04 / 87
p0 409.5 ± 0.3206
500
450
400
350
300

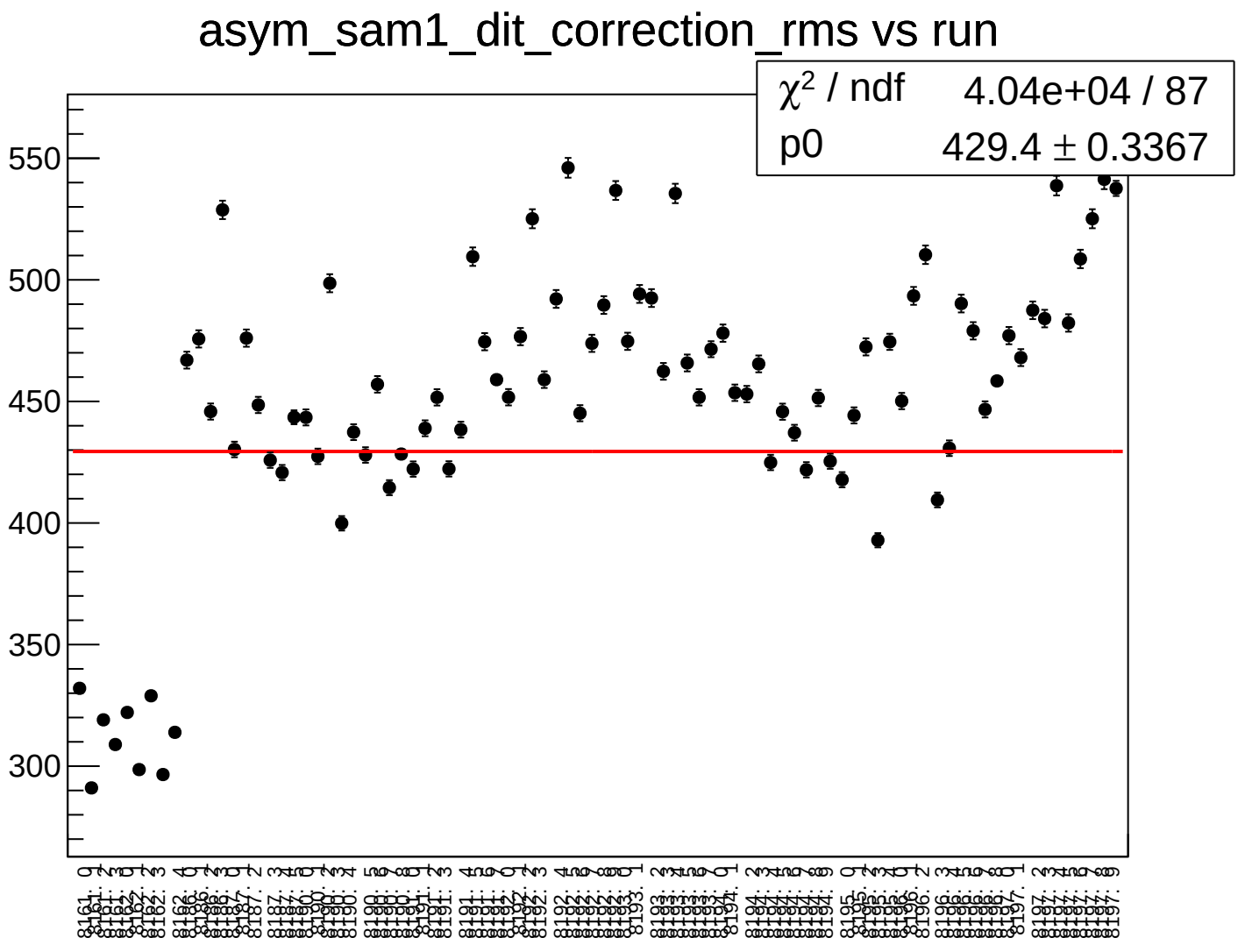

dit_asym_sam1_mean vs run
χ² / ndf 68.96 / 87
p0 177.9 ± 80.89
pull
Entries 88
Mean −213.5
Std Dev 0

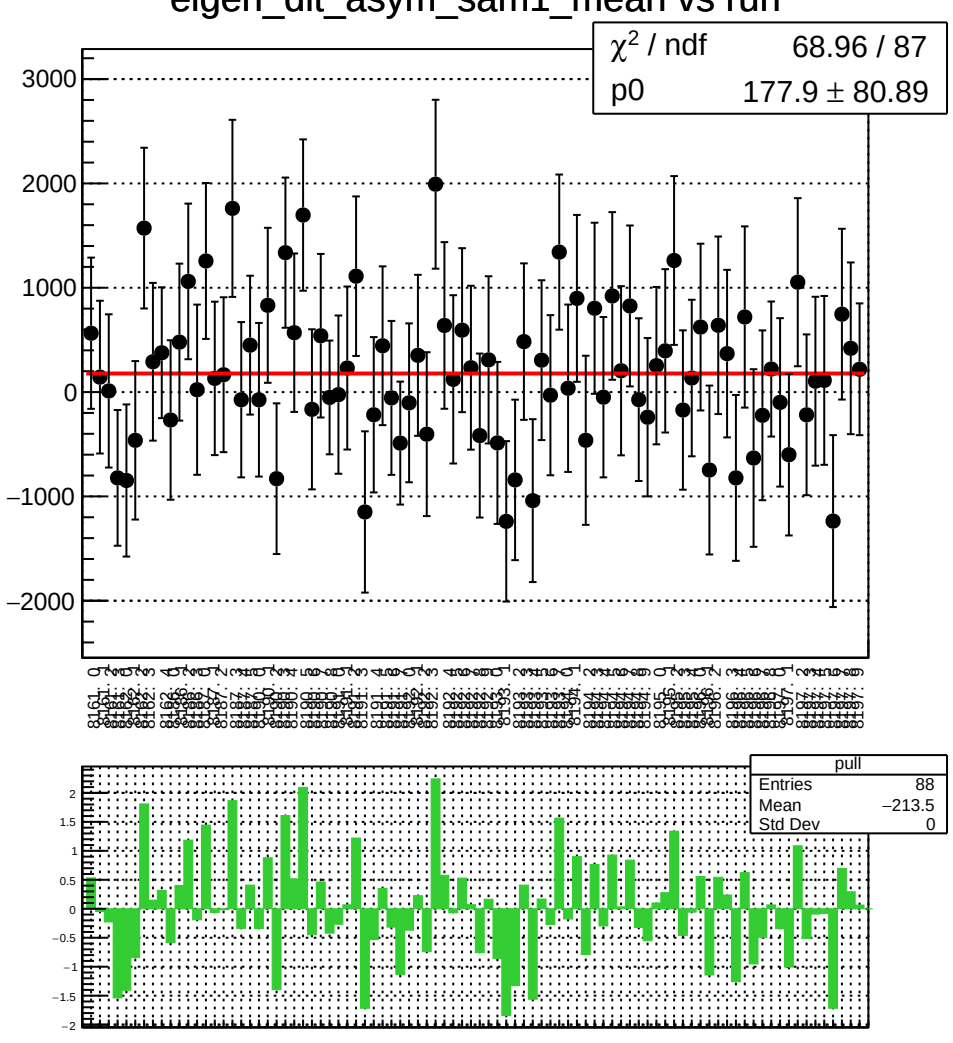

pull1D
Entries 88
Mean 0.008427
Std Dev 0.8852

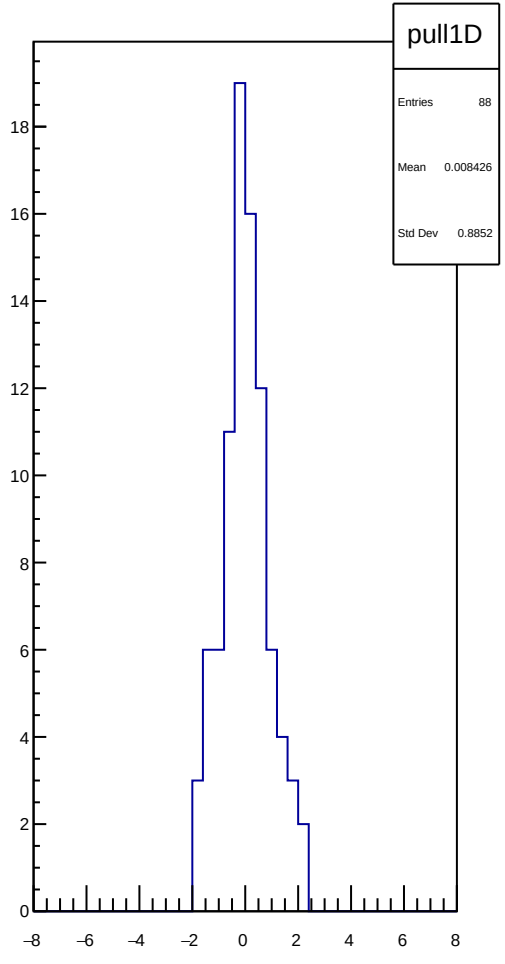

dit_asym_sam1_rms vs run
χ² / ndf 2949 / 87
p0 73.78 ± 0.0572
84
82
80
78
76
74
72
70
68

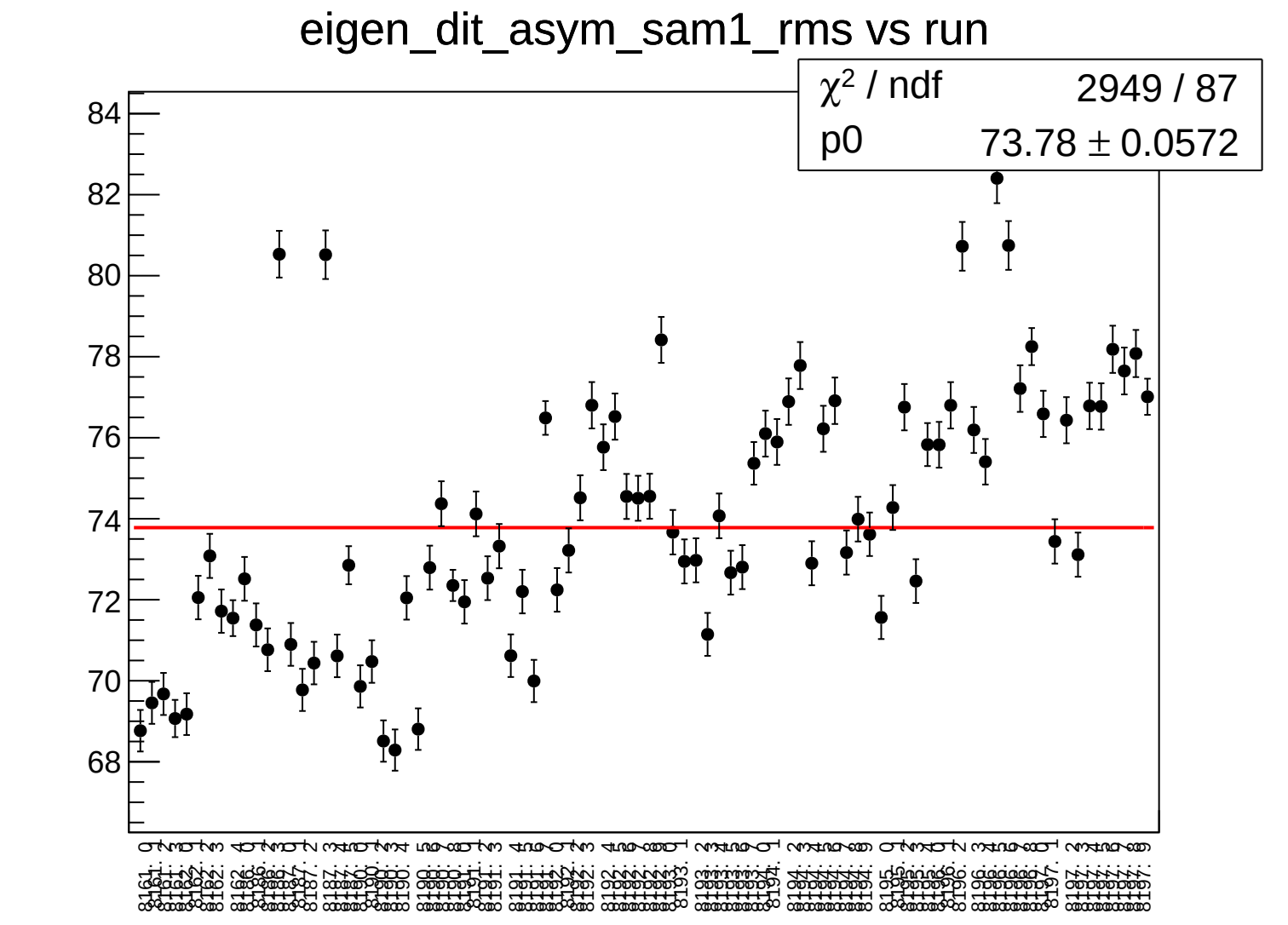

asym_sam1_dit_correction_mean vs run
χ² / ndf 86.73 / 87
p0 589.9 ± 476.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 154.1
Std Dev 0
3
2
1
0
−1
−2

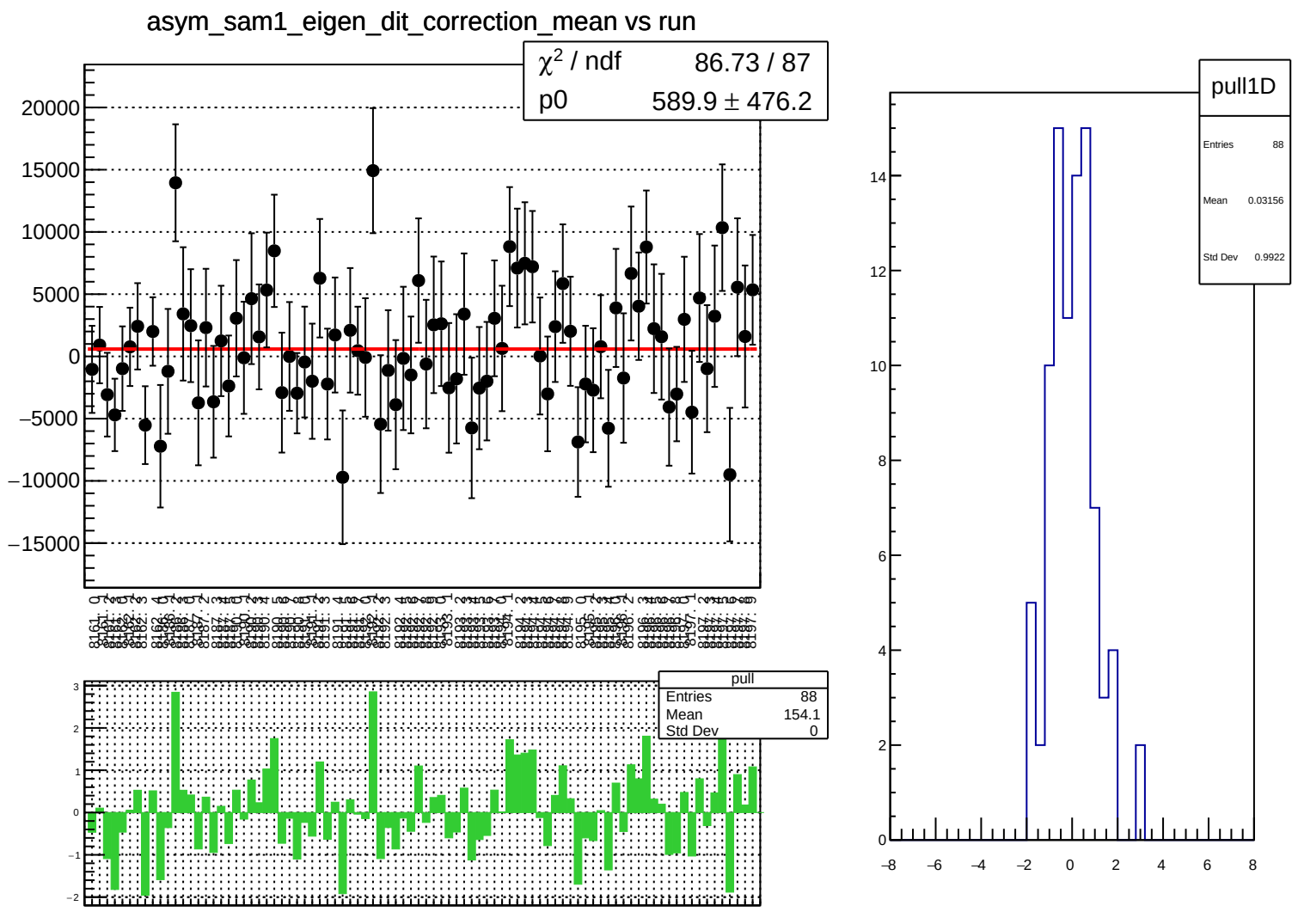

pull1D
Entries 88
Mean 0.03156
Std Dev 0.9922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

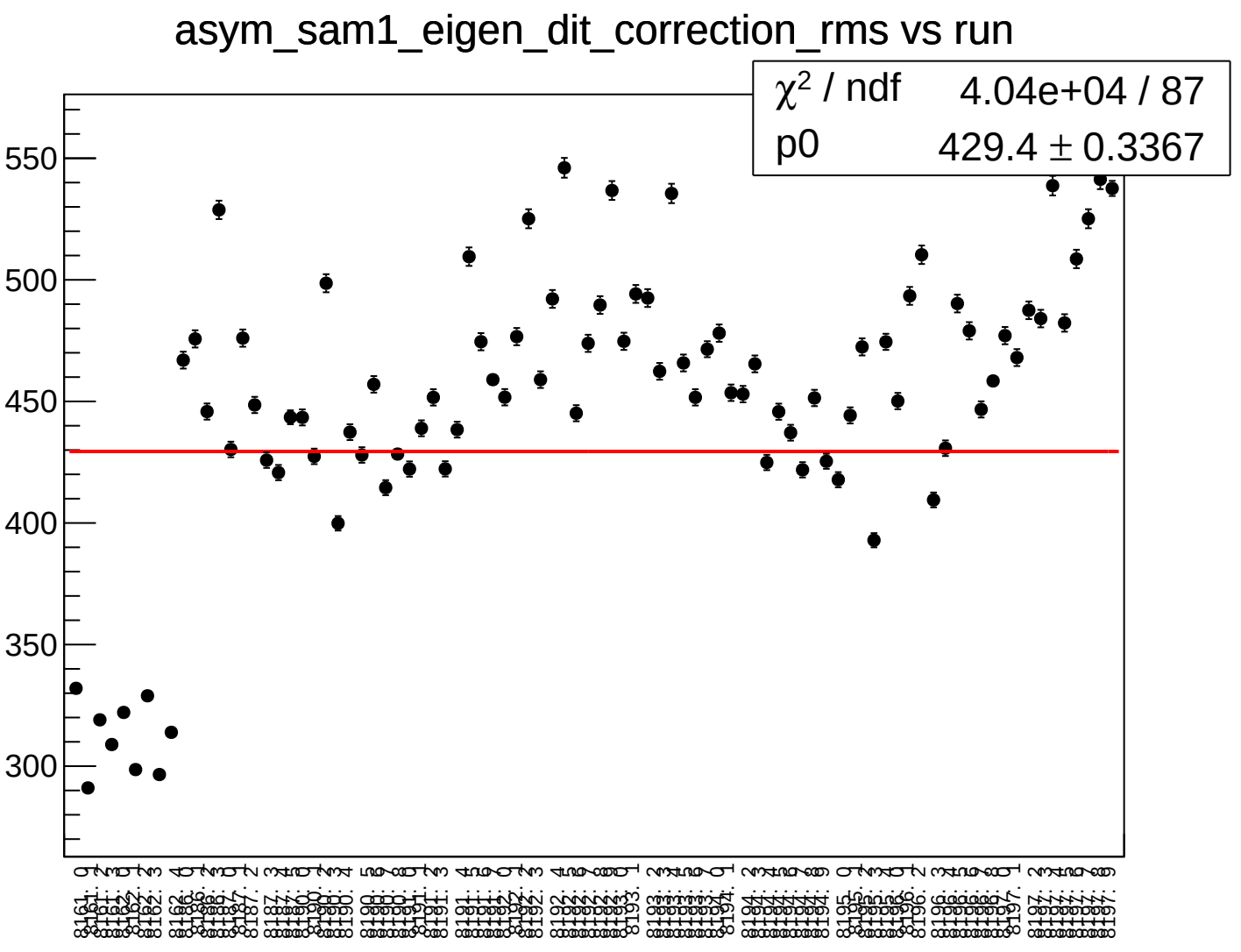

asym_sam1_dit_correction_rms vs run
χ² / ndf 4.04e+04 / 87
p0 429.4 ± 0.3367
550
500
450
400
350
300

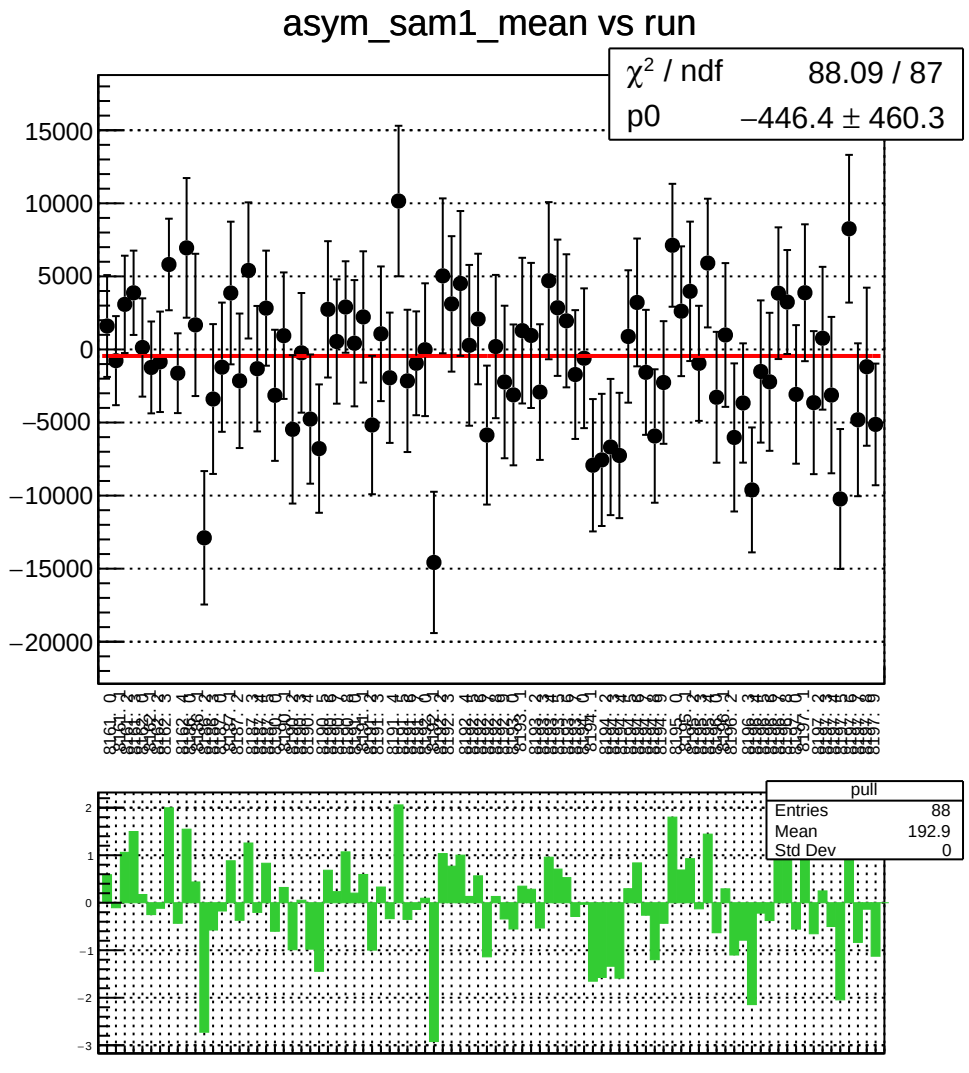

eigen_dit_asym_sam1_mean vs run
χ² / ndf 68.96 / 87
p0 177.9 ± 80.89
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −213.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

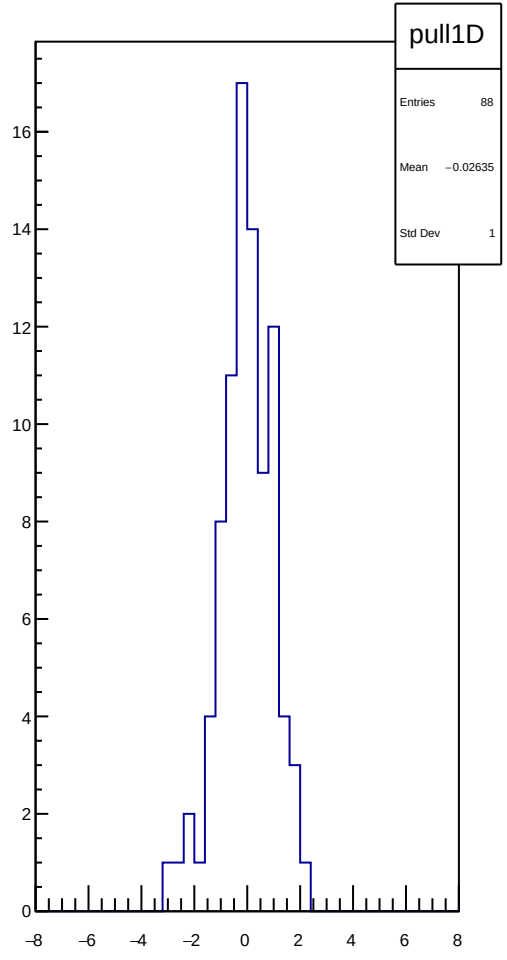

pull1D
Entries 88
Mean 0.008426
Std Dev 0.8852
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

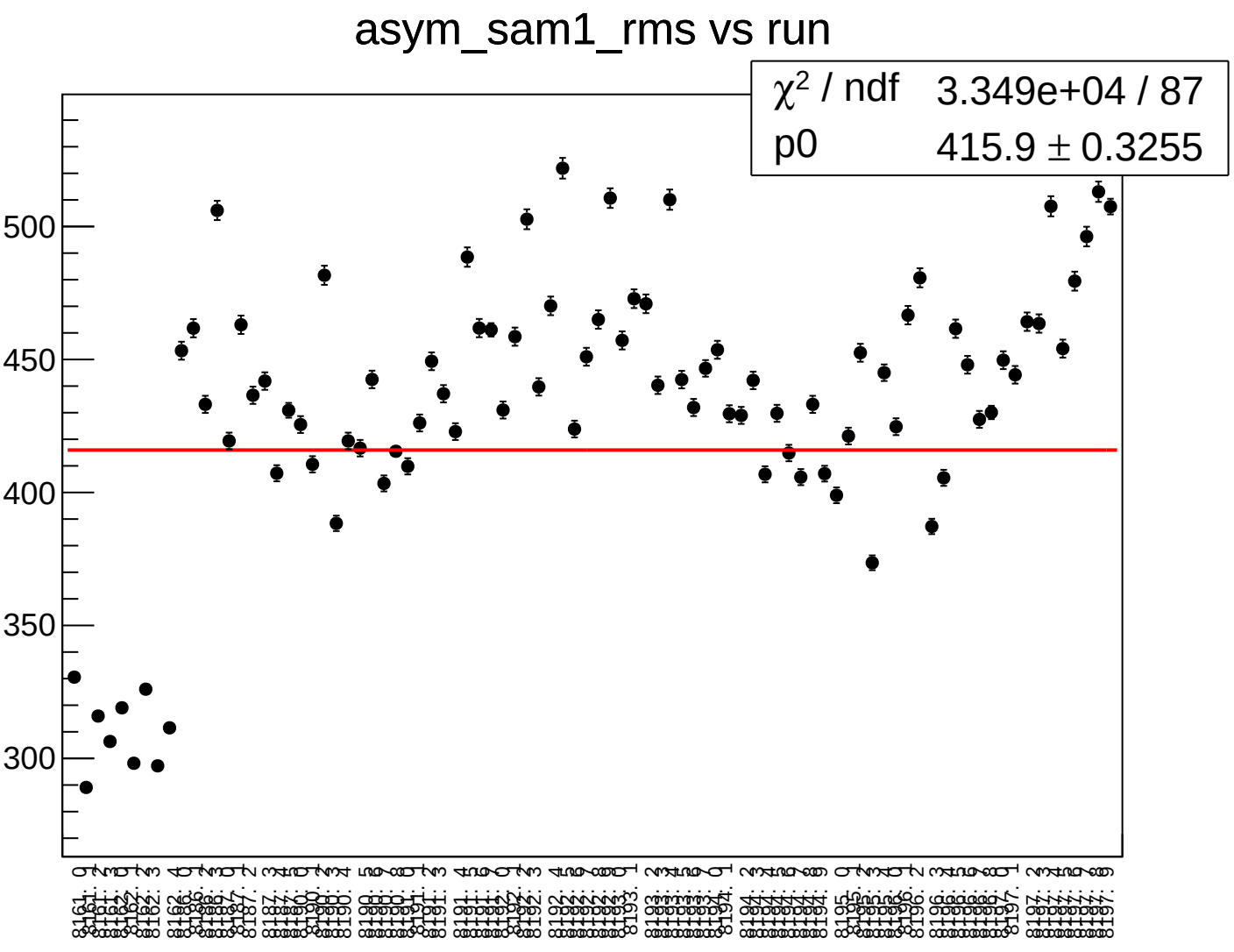

eigen_dit_asym_sam1_rms vs run
χ² / ndf 2949 / 87
p0 73.78 ± 0.0572
84
82
80
78
76
74
72
70
68

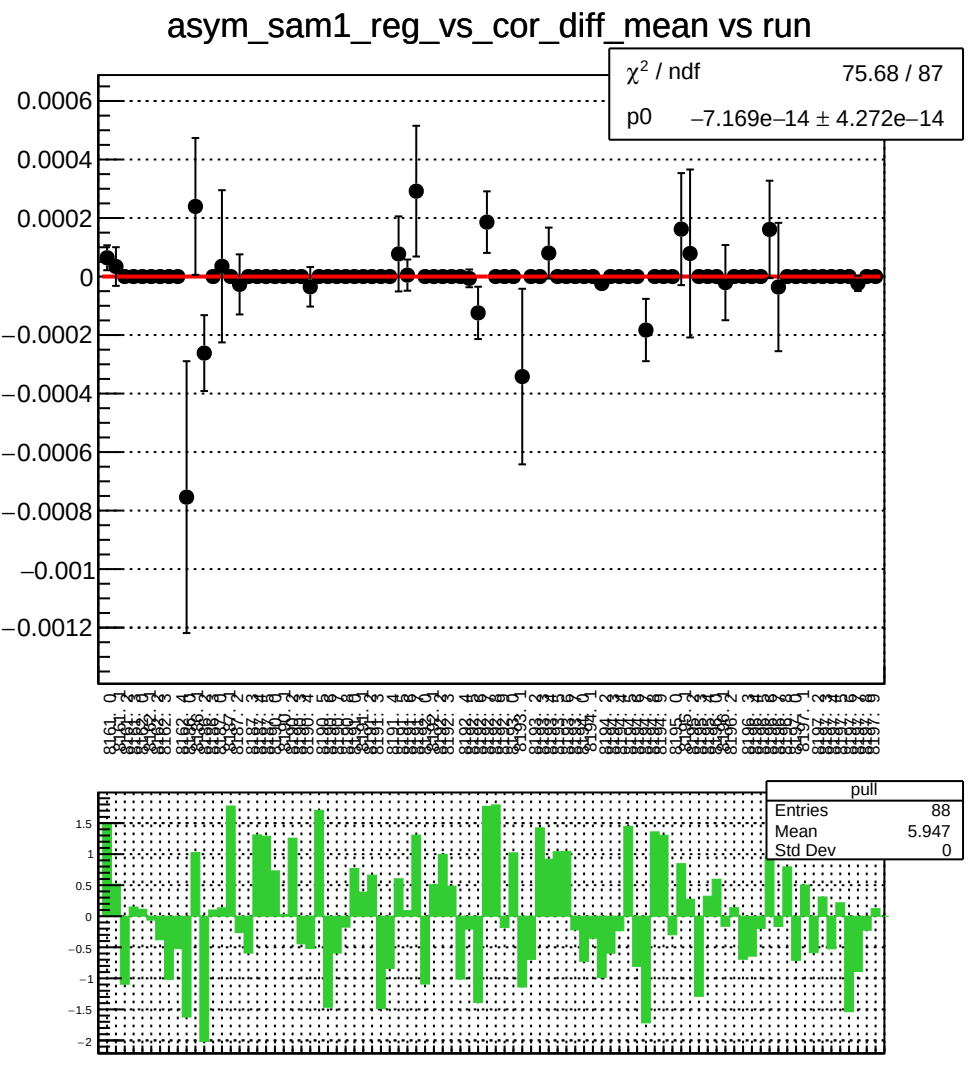

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 86.73 / 87
p0 589.9 ± 476.2
pull
Entries 88
Mean 154.1
Std Dev 0
pull1D
Entries 88
Mean 0.03156
Std Dev 0.9922

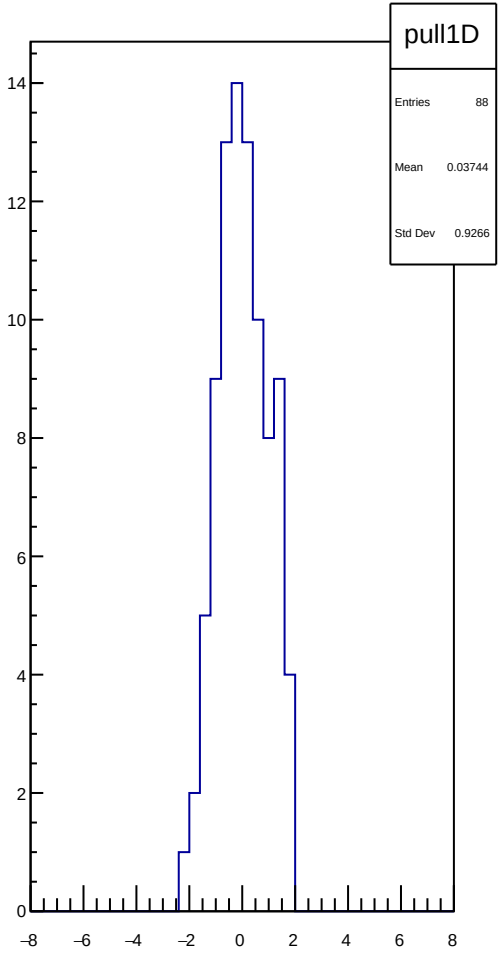

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 4.04e+04 / 87
p0 429.4 ± 0.3367
550
500
450
400
350
300

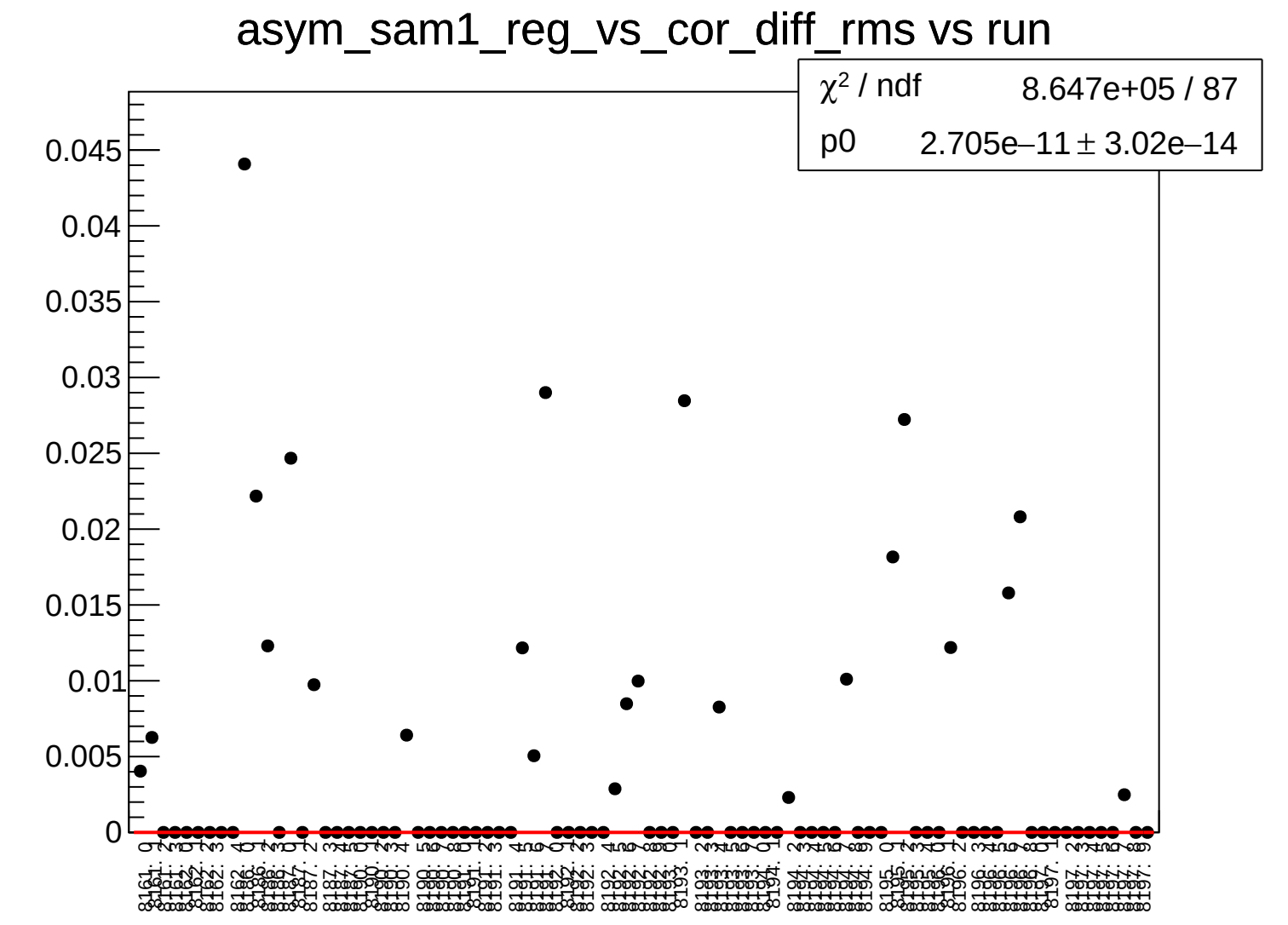

asym_sam1_mean vs run
χ² / ndf 88.09 / 87
p0 −446.4 ± 460.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 192.9
Std Dev 0
2
1
0
−1
−2
−3

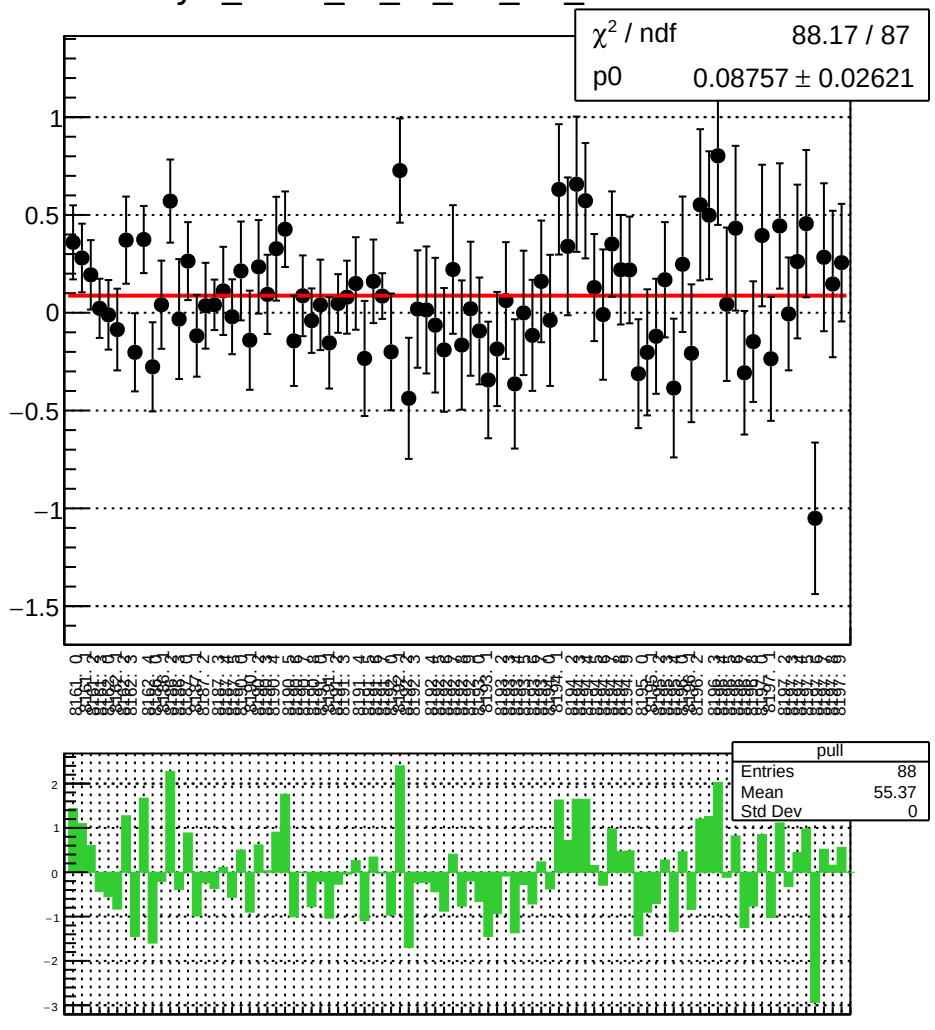

pull1D
Entries 88
Mean −0.02635
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

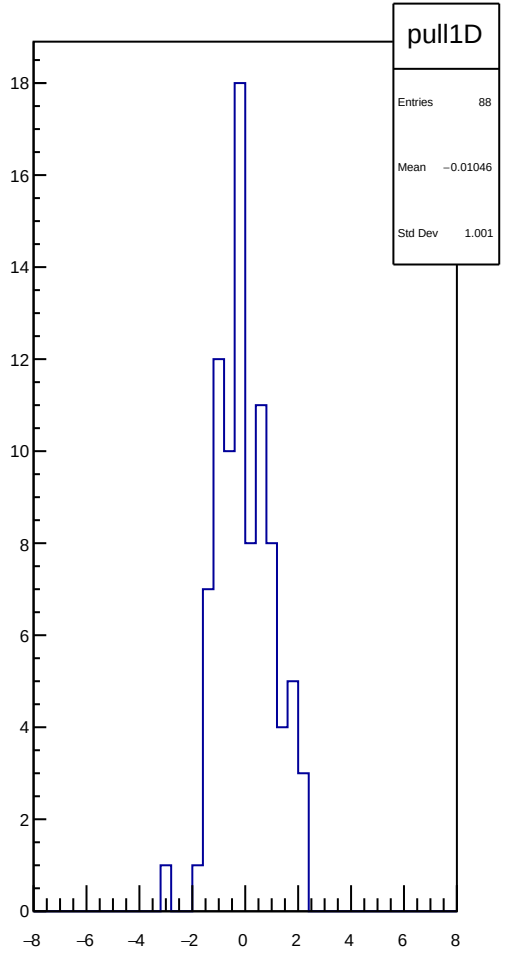

asym_sam1_rms vs run
χ² / ndf 3.349e+04 / 87
p0 415.9 ± 0.3255
500
450
400
350
300

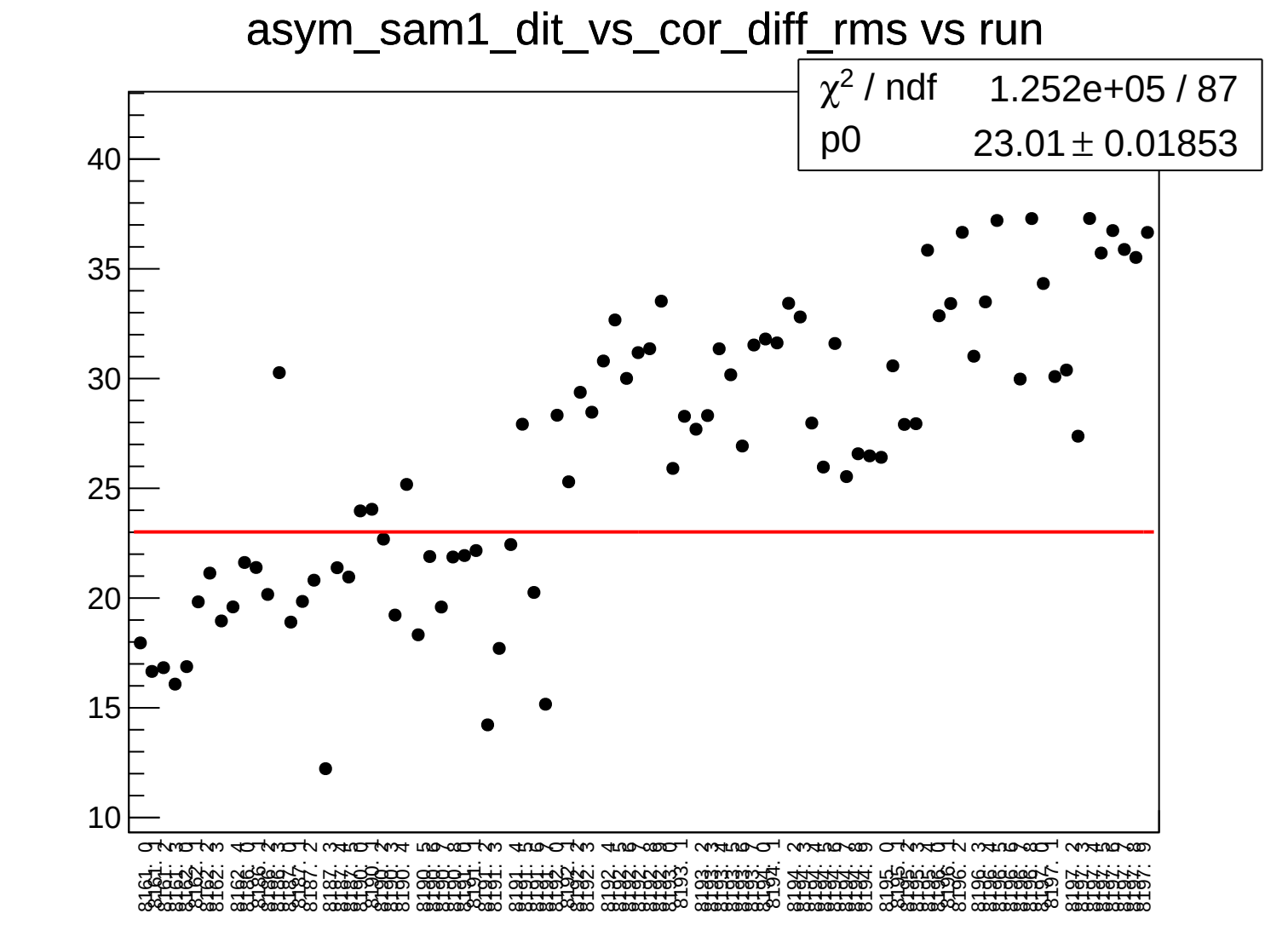

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 75.68 / 87
p0 −7.169e−14 ± 4.272e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 88
Mean 5.947
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

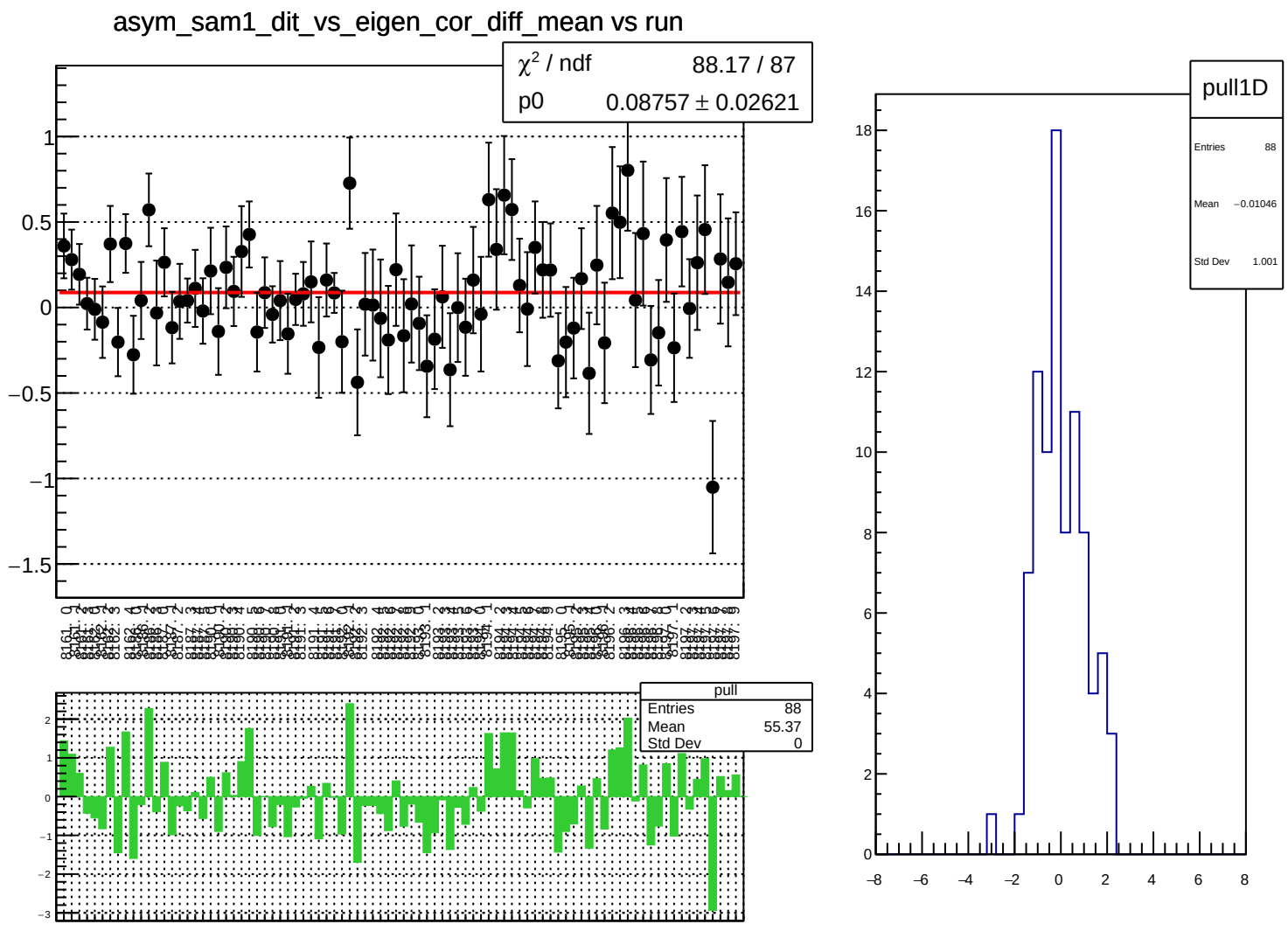

pull1D
Entries 88
Mean 0.03744
Std Dev 0.9266
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

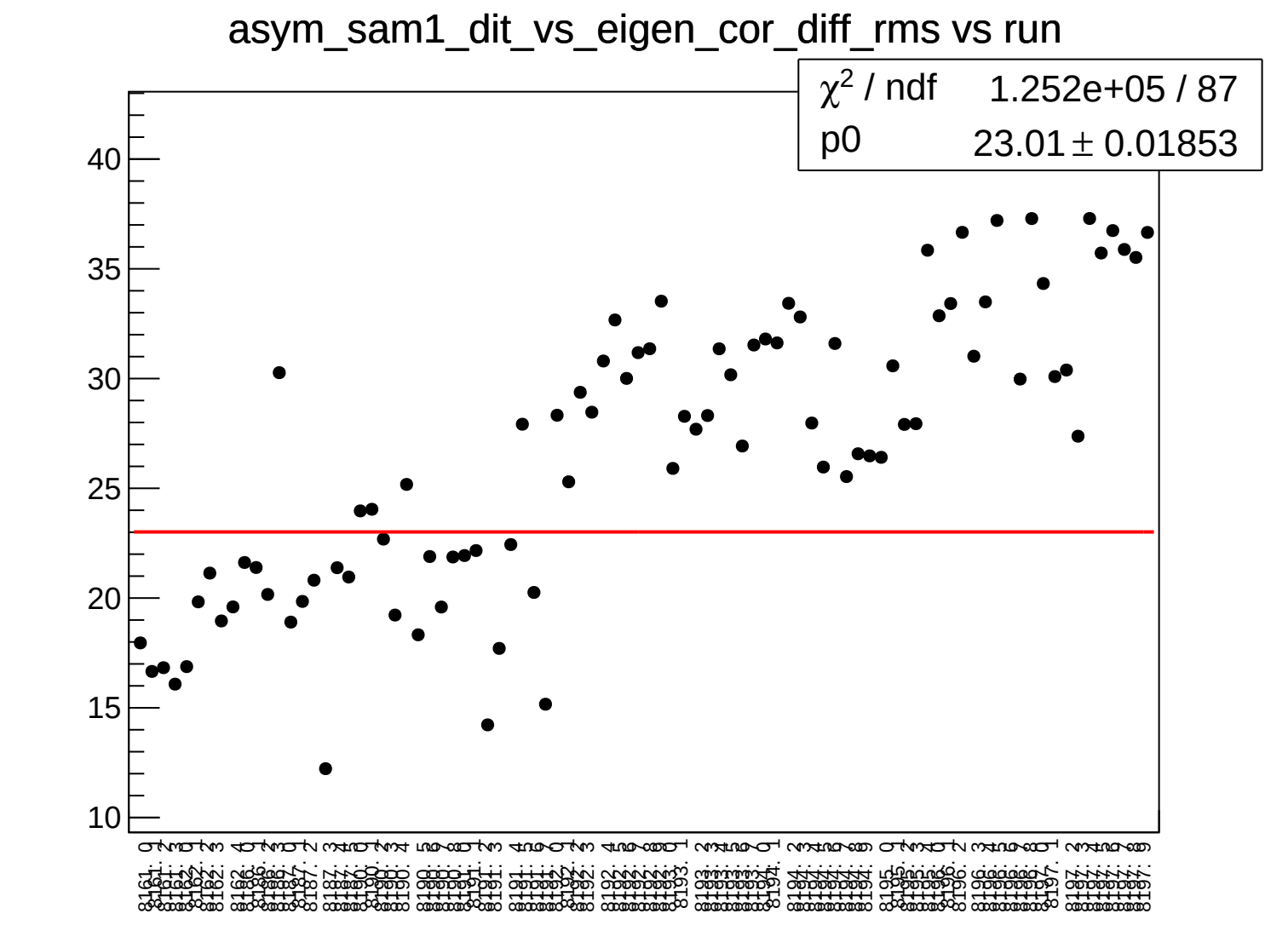

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.647e+05 / 87
p0 2.705e−11 ± 3.02e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

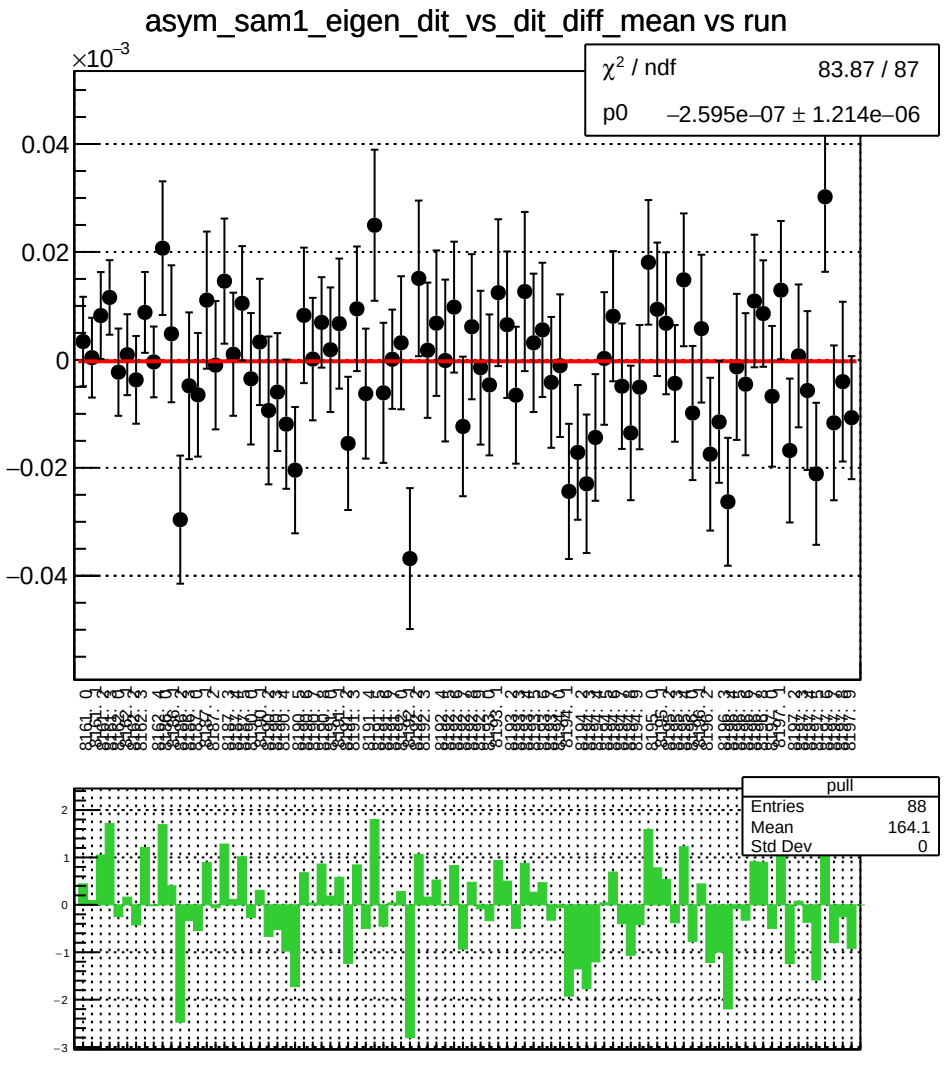

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 88.17 / 87
p0 0.08757 ± 0.02621
pull
Entries 88
Mean 55.37
Std Dev 0

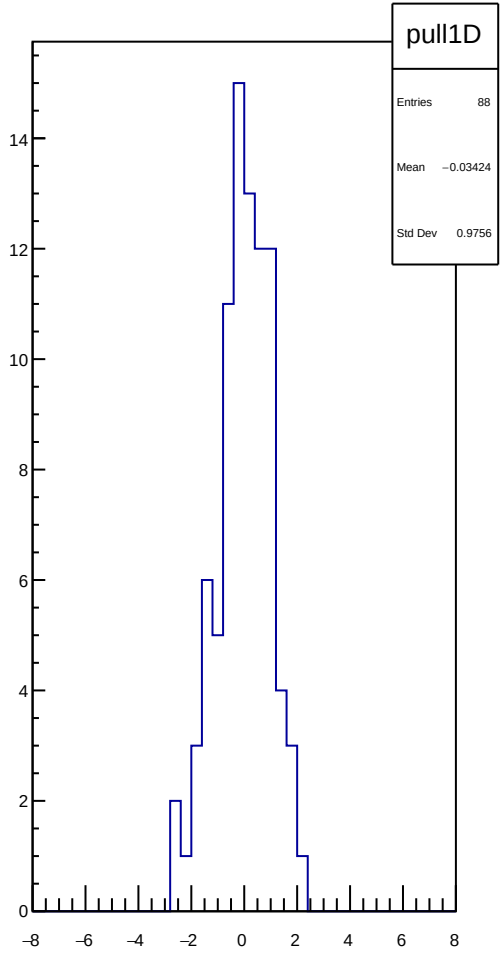

pull1D
Entries 88
Mean −0.01046
Std Dev 1.001

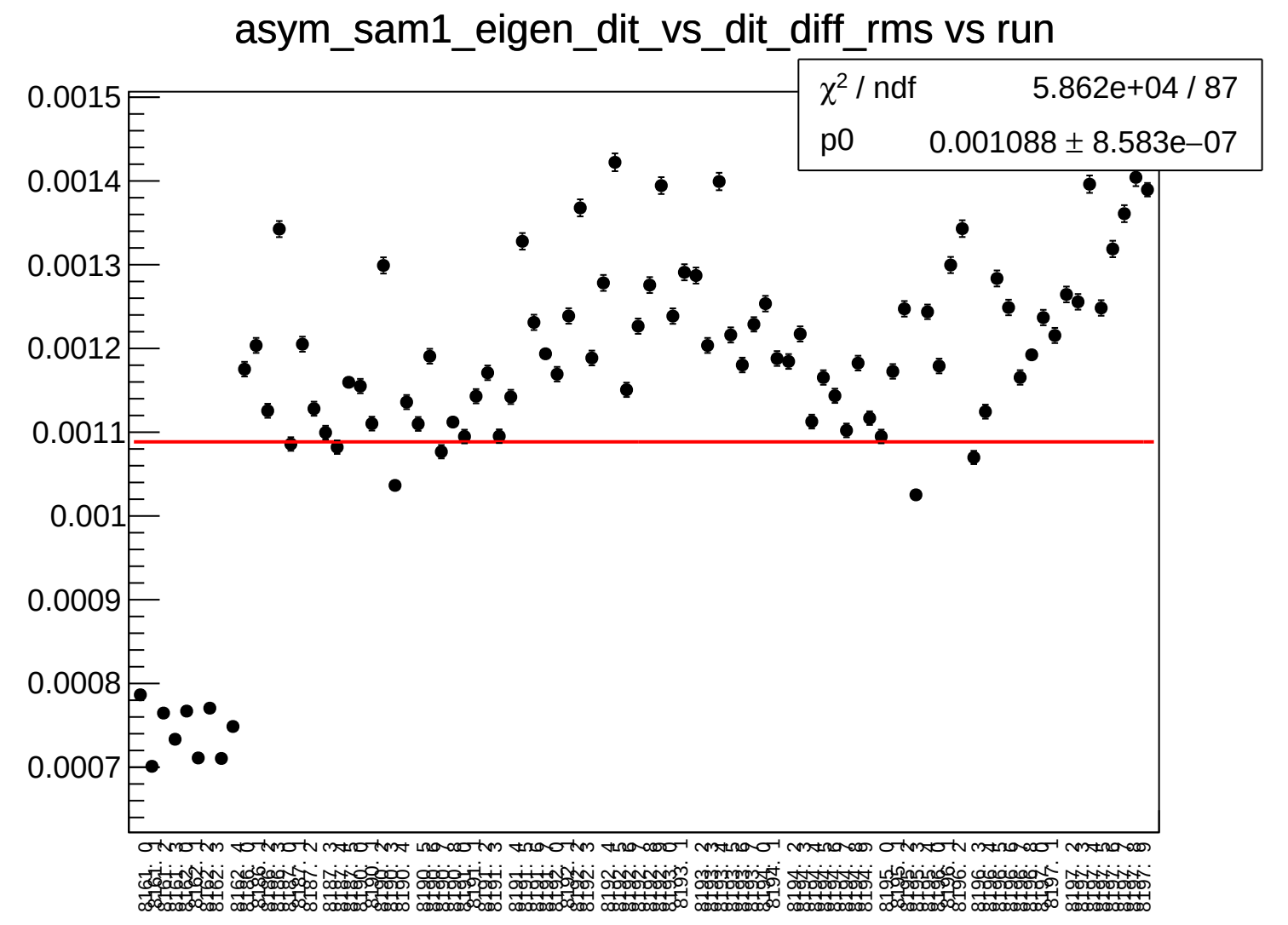

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.252e+05 / 87
p0 23.01 ± 0.01853
40
35
30
25
20
15
10

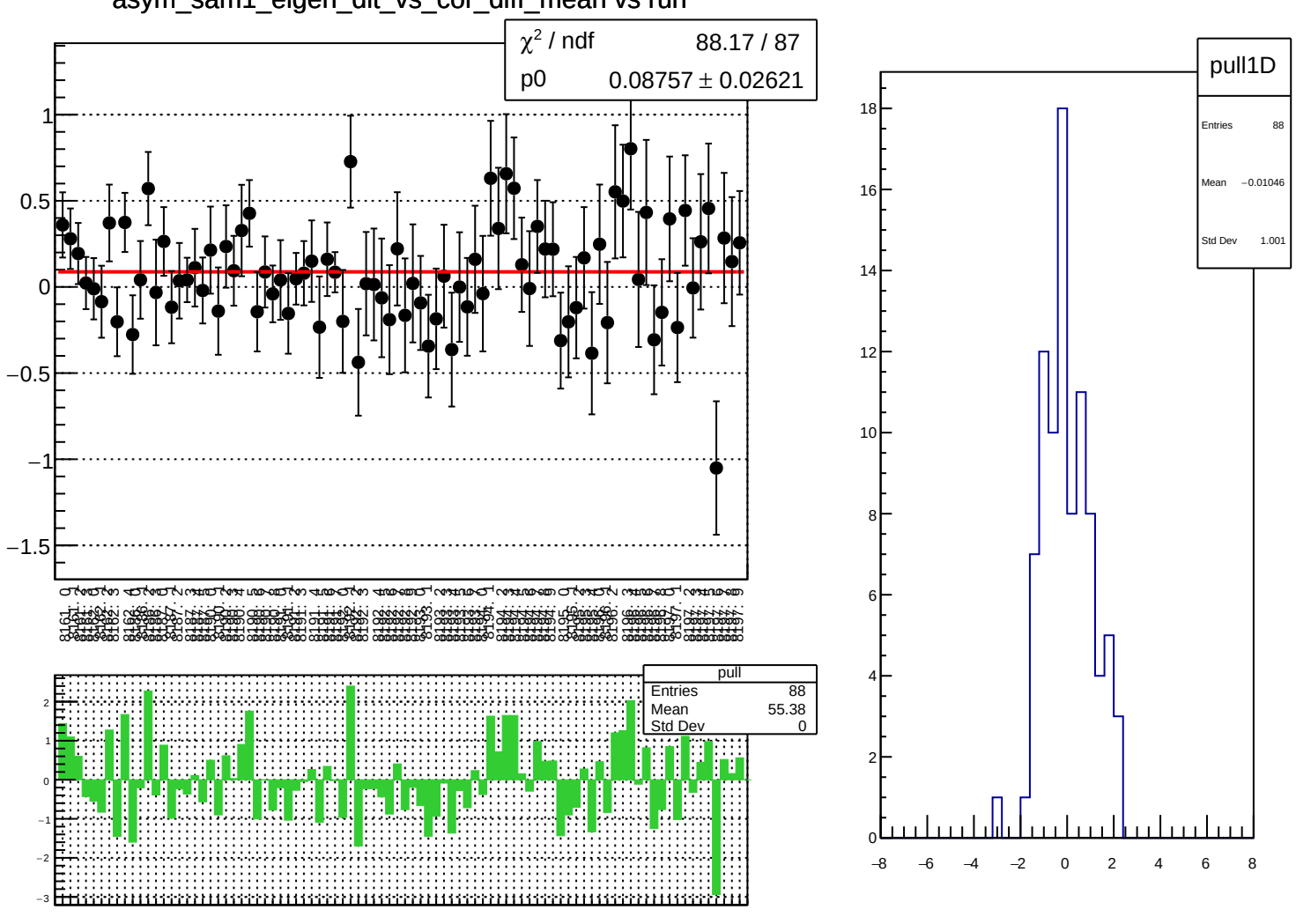

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.17 / 87
p0 0.08757 ± 0.02621
pull
Entries 88
Mean 55.37
Std Dev 0
pull1D
Entries 88
Mean −0.01046
Std Dev 1.001

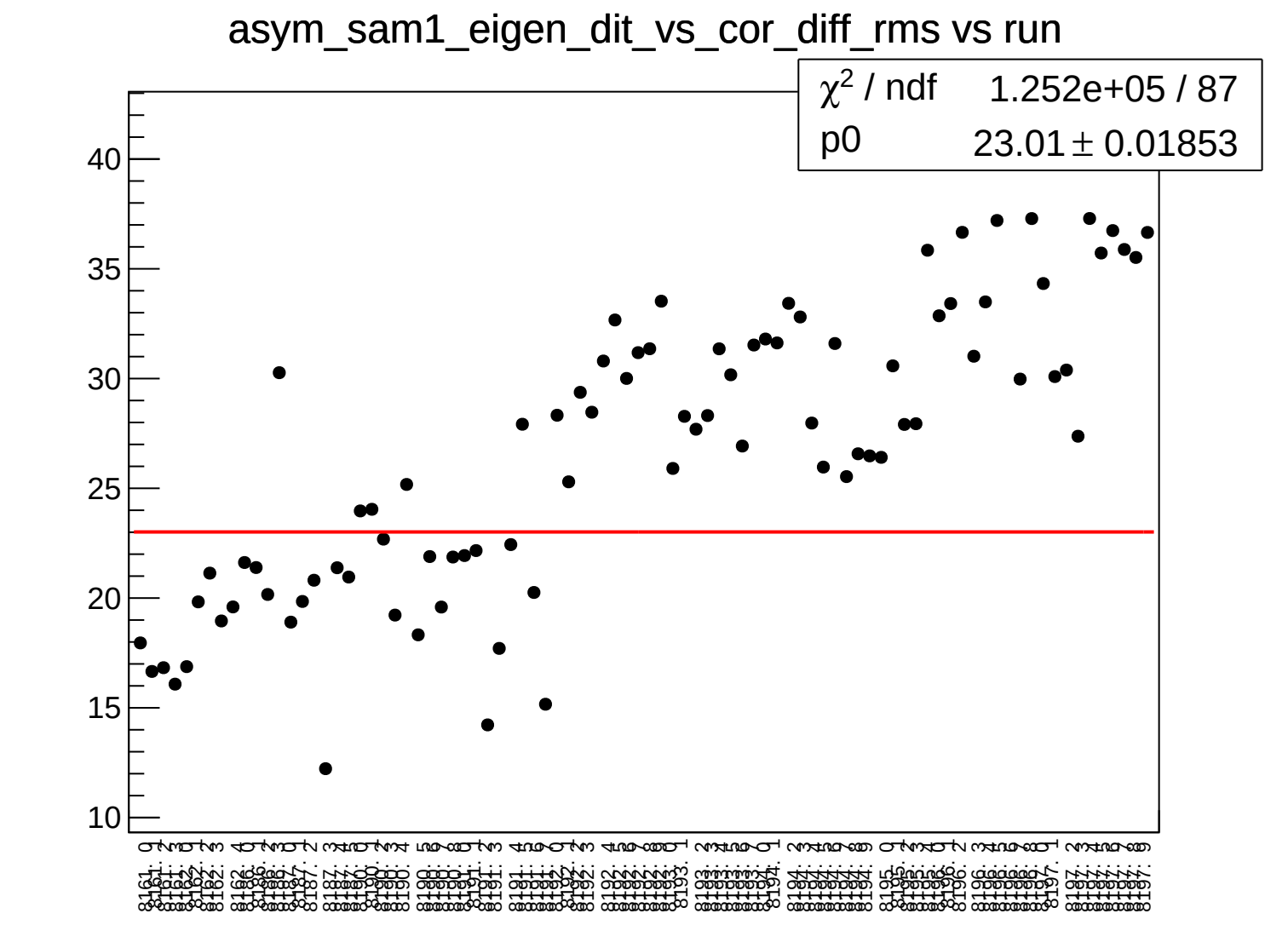

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.252e+05 / 87
p0 23.01 ± 0.01853
40
35
30
25
20
15
10

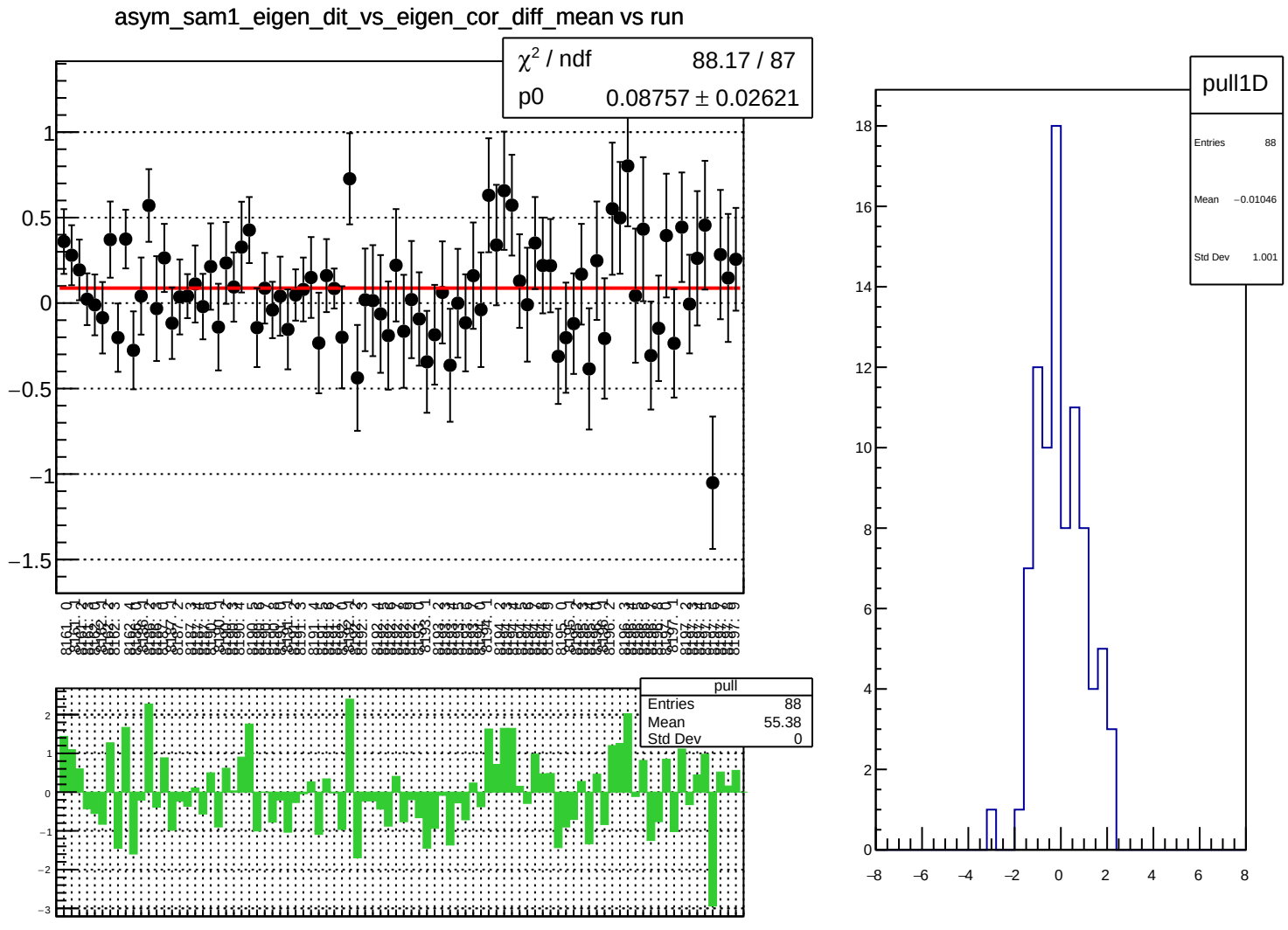

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.87 / 87
p0 −2.595e−07 ± 1.214e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 164.1
Std Dev 0
2
1
0
−1
−2
−3

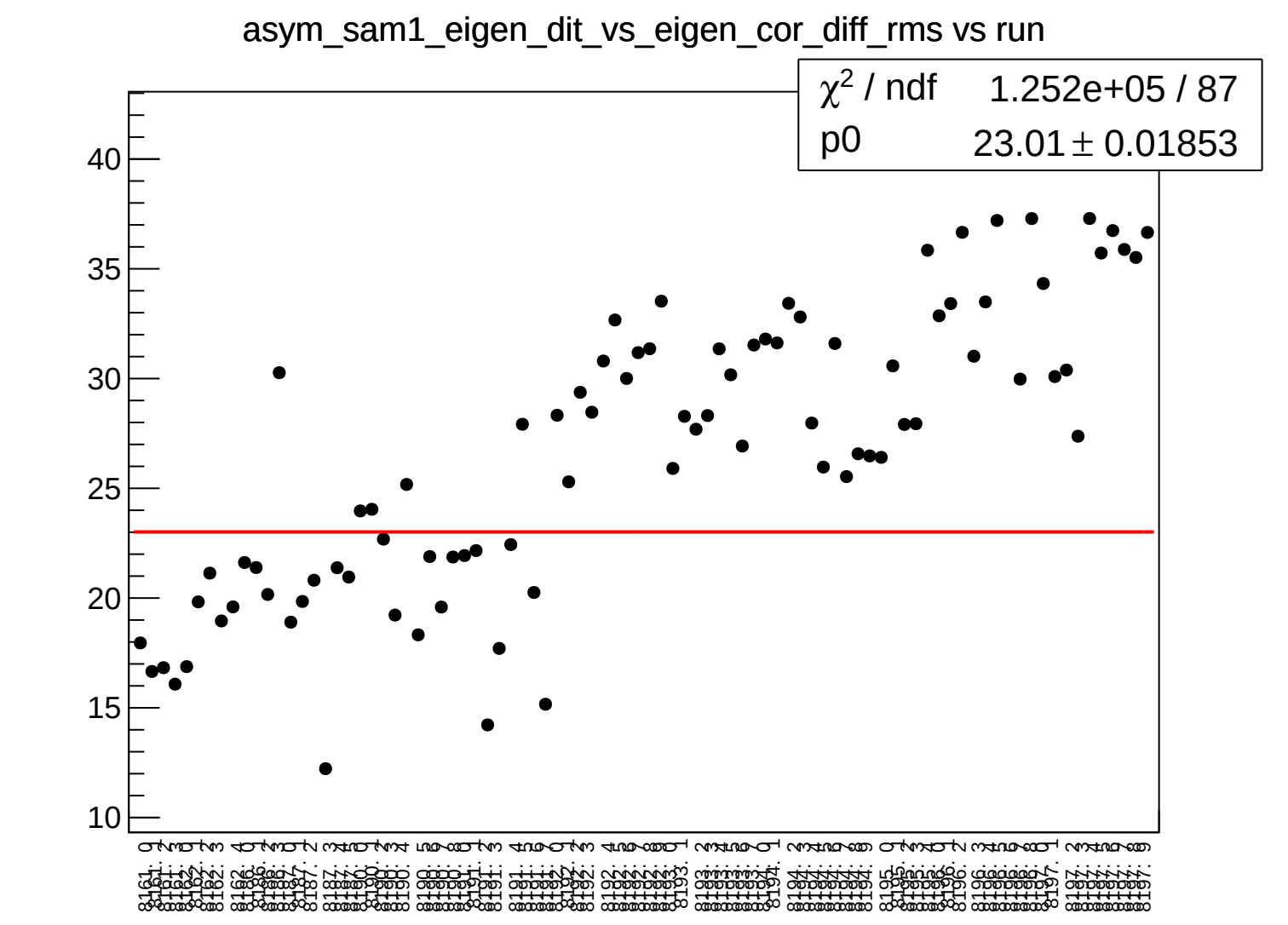

pull1D
Entries 88
Mean −0.03424
Std Dev 0.9756
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

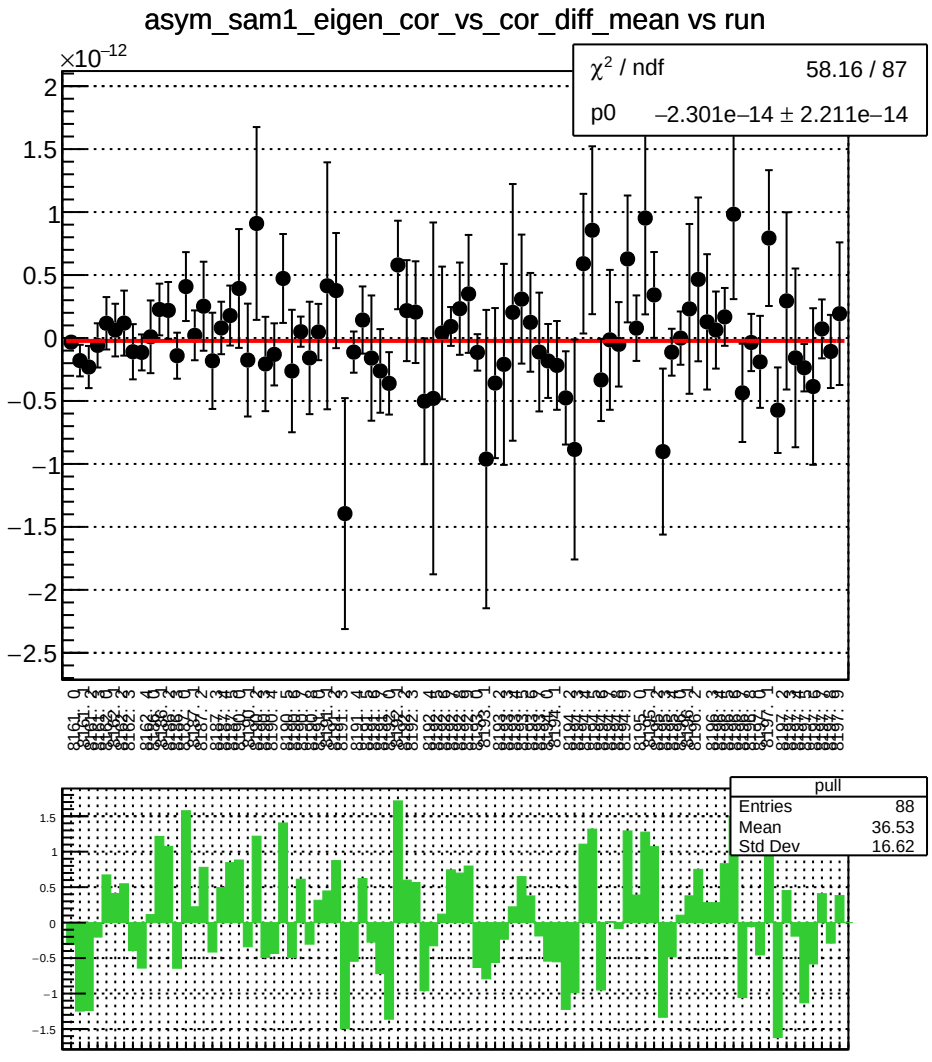

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.862e+04 / 87
p0 0.001088 ± 8.583e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007

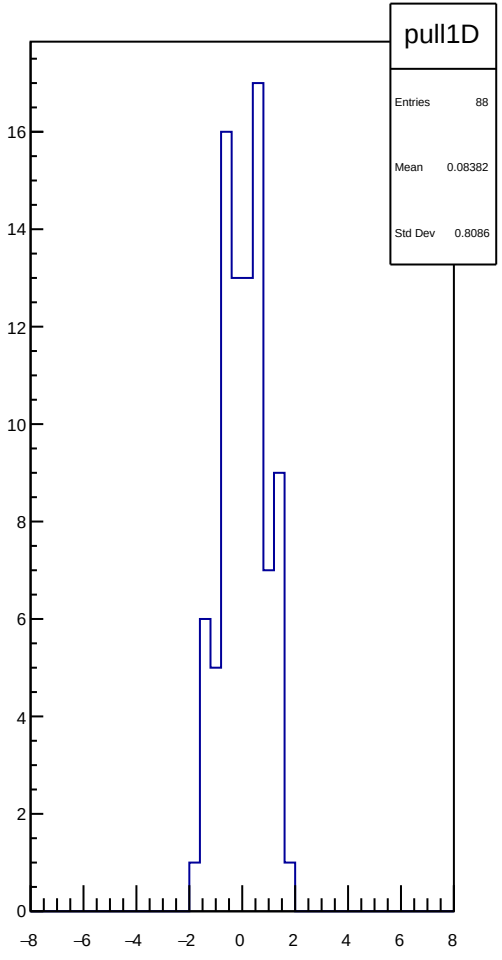

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.17 / 87
p0 0.08757 ± 0.02621
pull
Entries 88
Mean 55.38
Std Dev 0
pull1D
Entries 88
Mean −0.01046
Std Dev 1.001

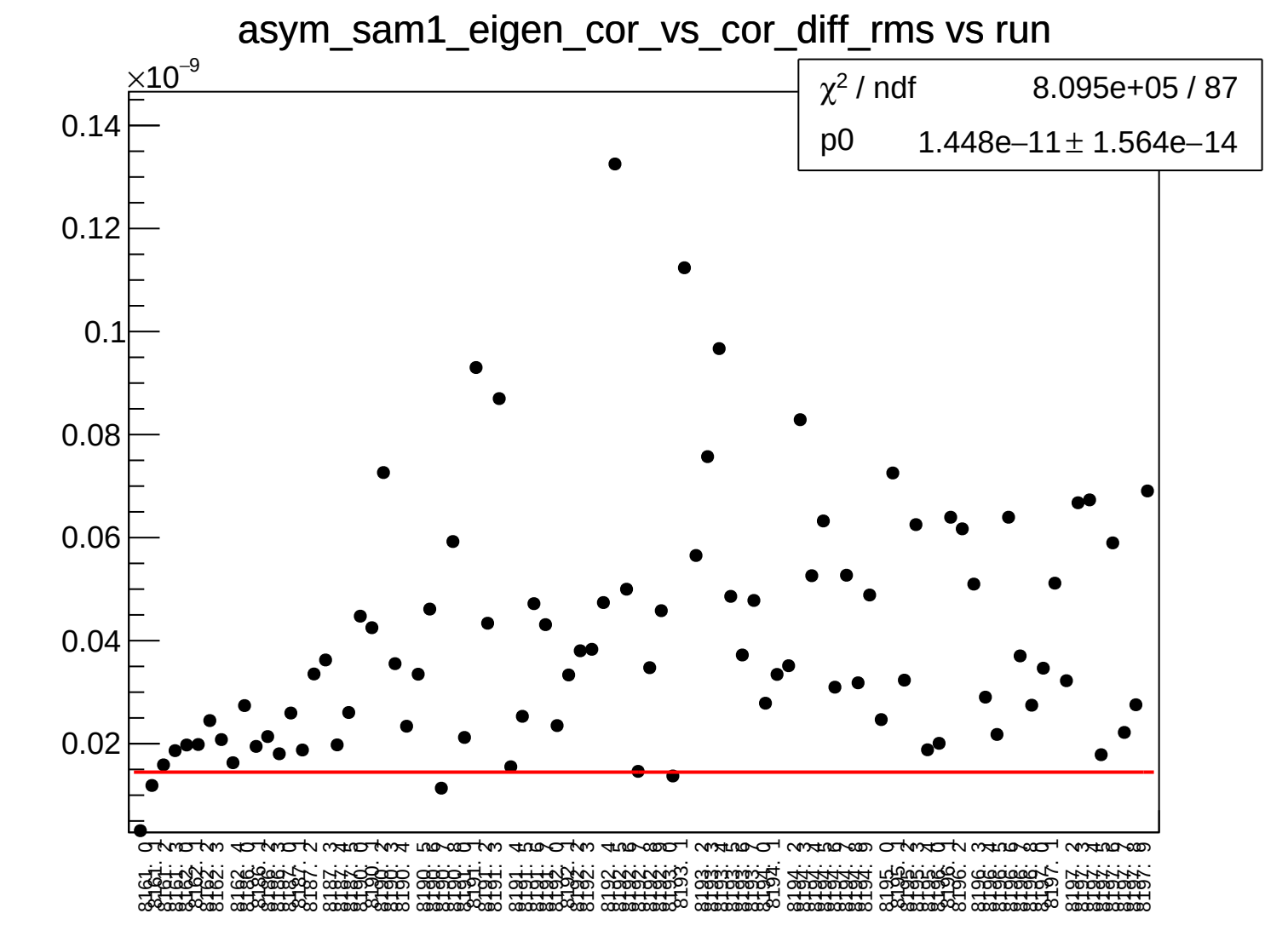

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.252e+05 / 87
p0 23.01 ± 0.01853
40
35
30
25
20
15
10

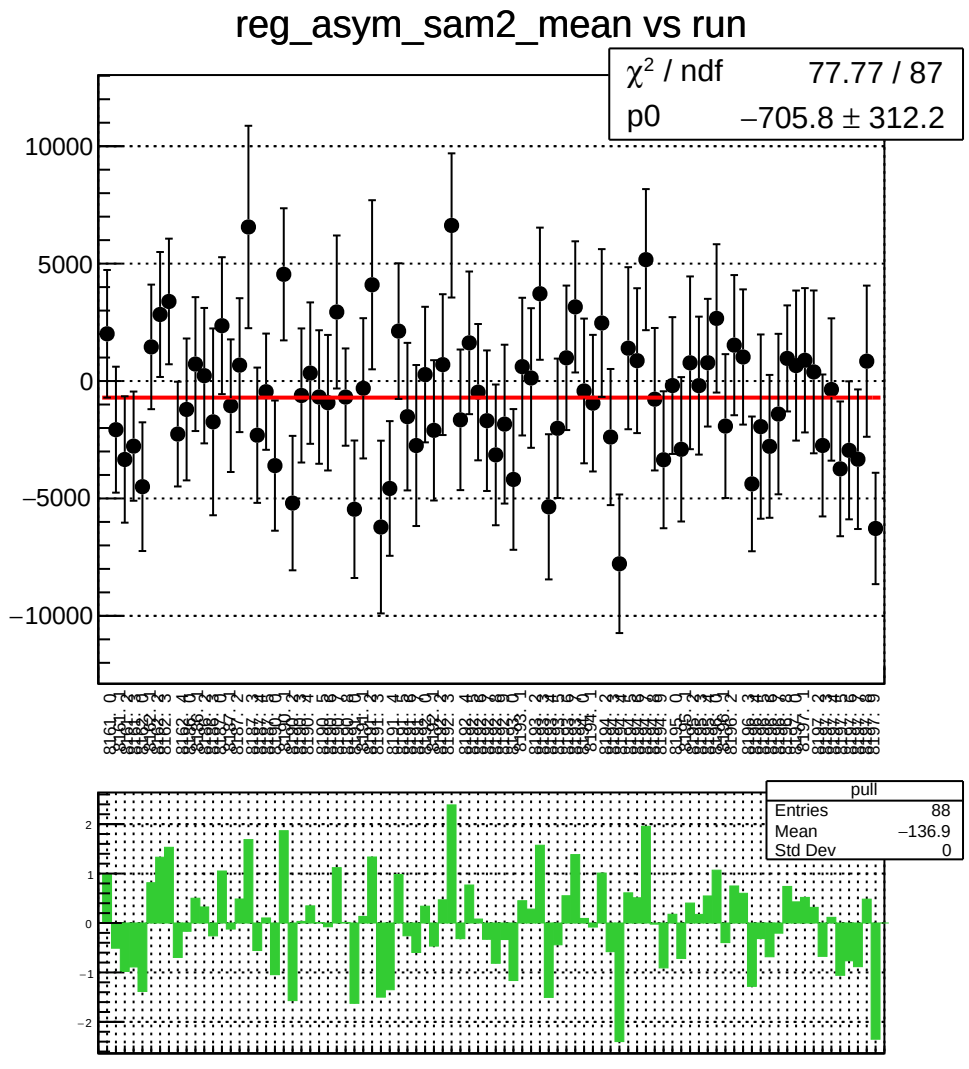

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.17 / 87
p0 0.08757 ± 0.02621
pull
Entries 88
Mean 55.38
Std Dev 0
pull1D
Entries 88
Mean −0.01046
Std Dev 1.001

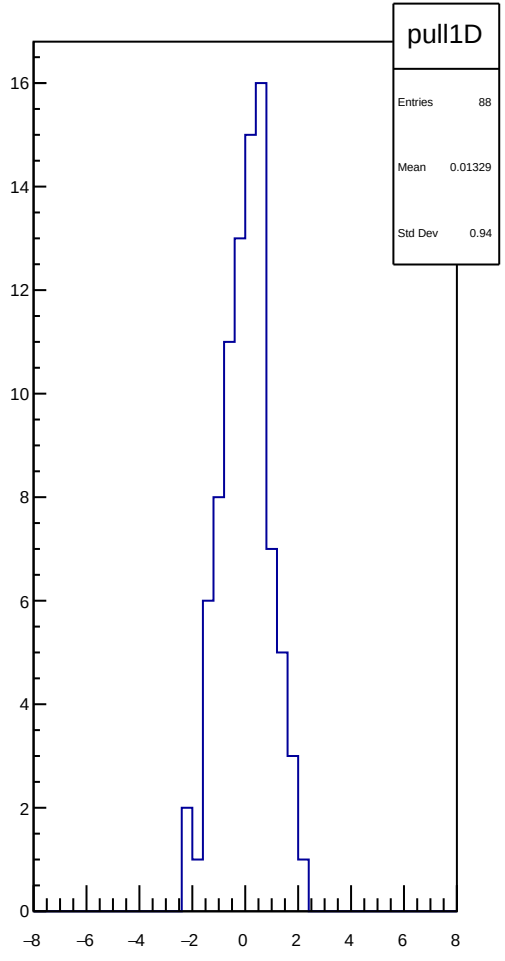

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.252e+05 / 87
p0 23.01 ± 0.01853
40
35
30
25
20
15
10

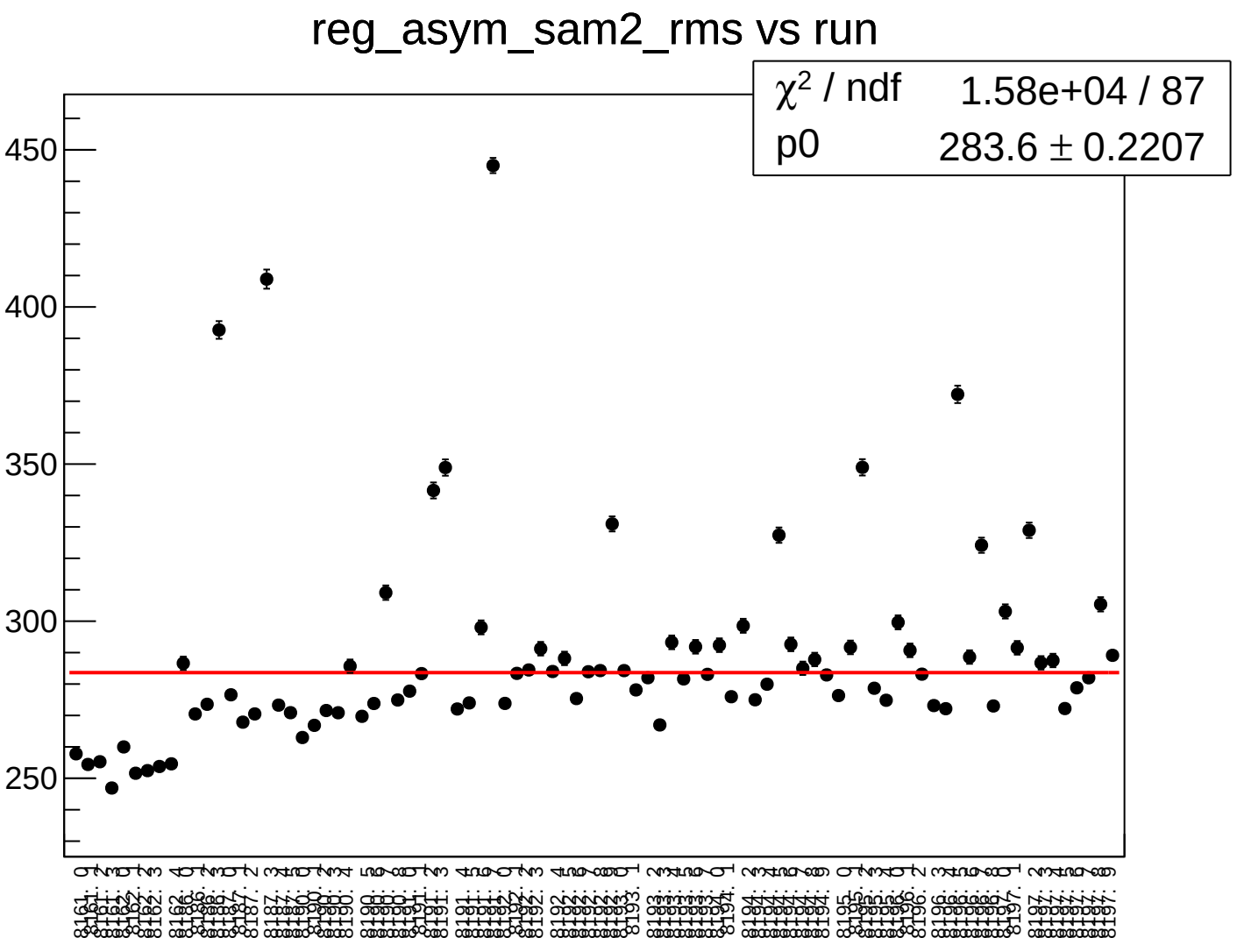

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.16 / 87
p0 −2.301e−14 ± 2.211e−14
pull
Entries 88
Mean 36.53
Std Dev 16.62

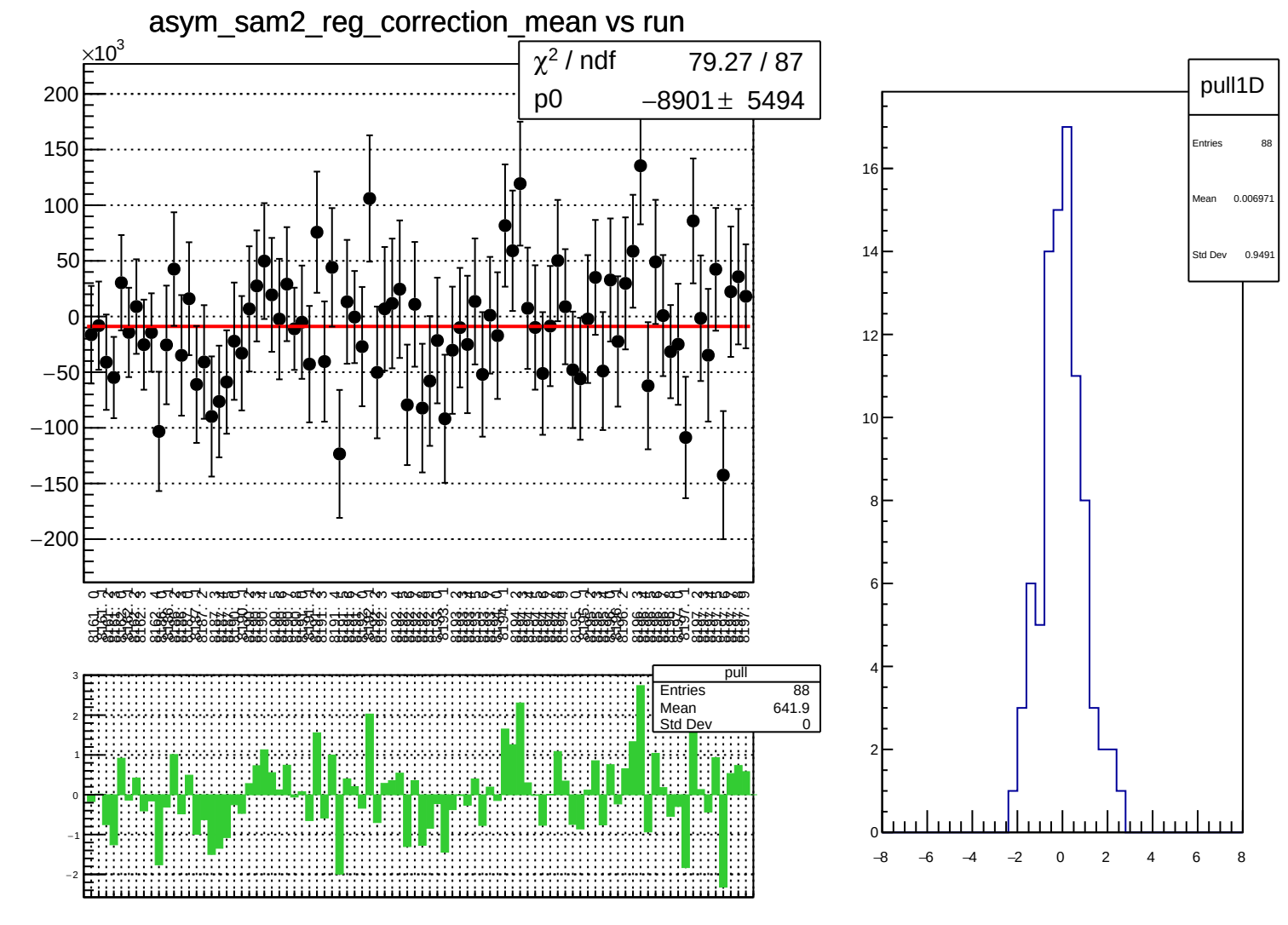

pull1D
Entries 88
Mean 0.08382
Std Dev 0.8086

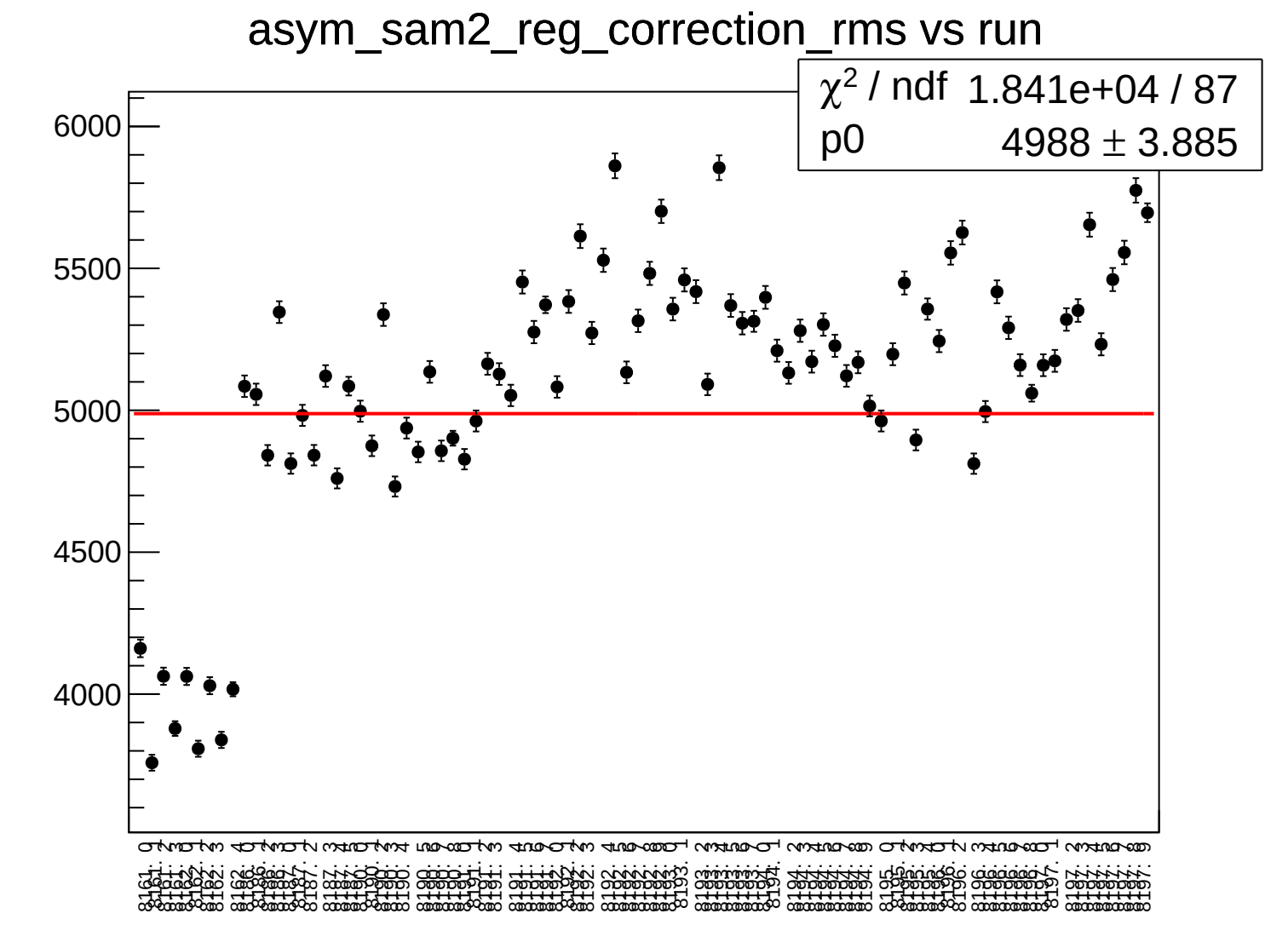

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.095e+05 / 87
p0 1.448e−11 ± 1.564e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

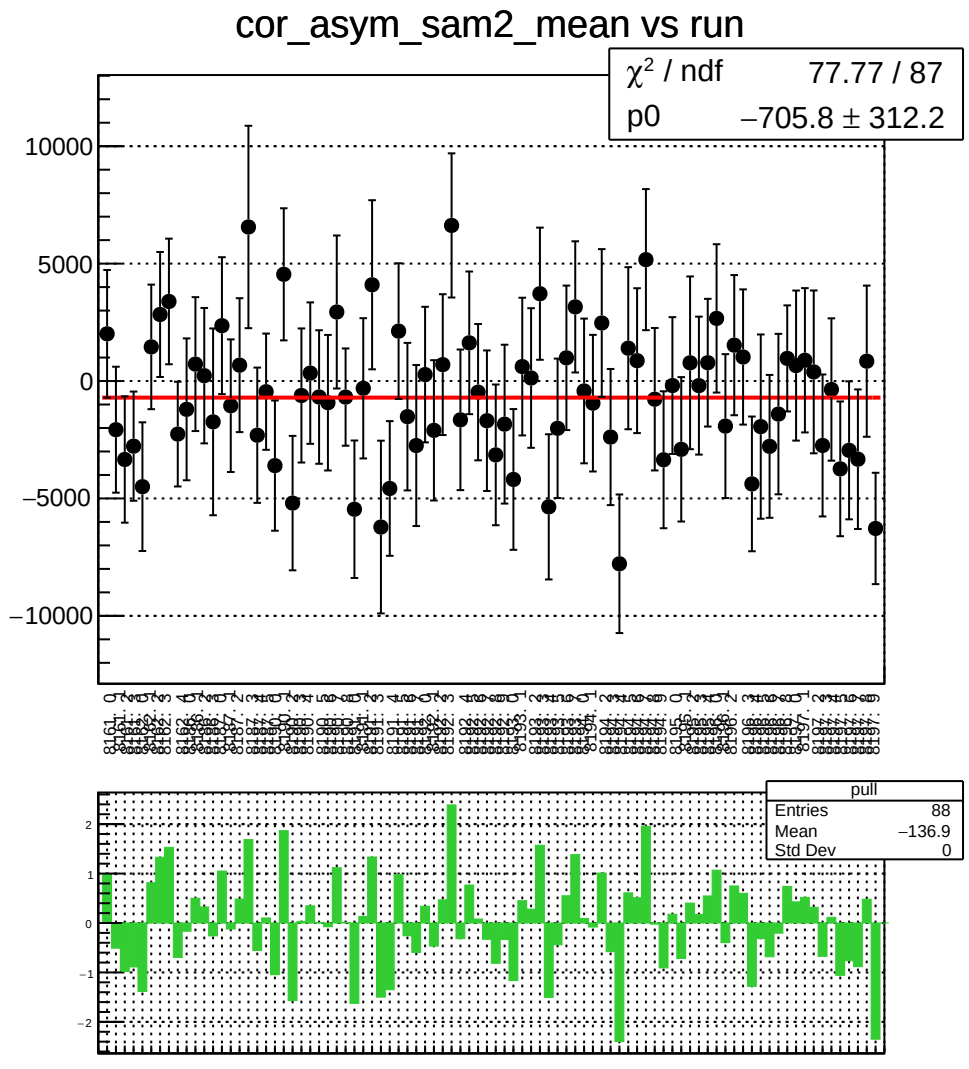

reg_asym_sam2_mean vs run
χ² / ndf 77.77 / 87
p0 −705.8 ± 312.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −136.9
Std Dev 0
2
1
0
−1
−2

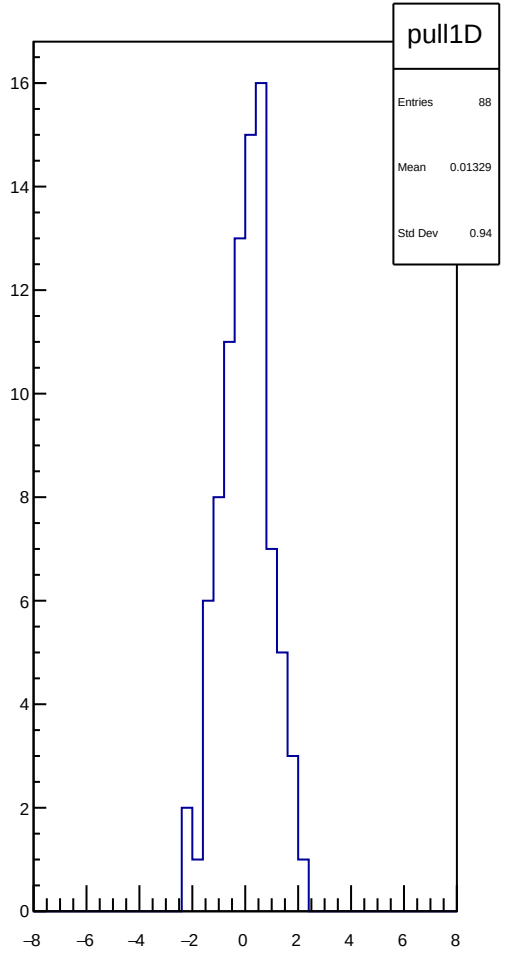

pull1D
Entries 88
Mean 0.01329
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

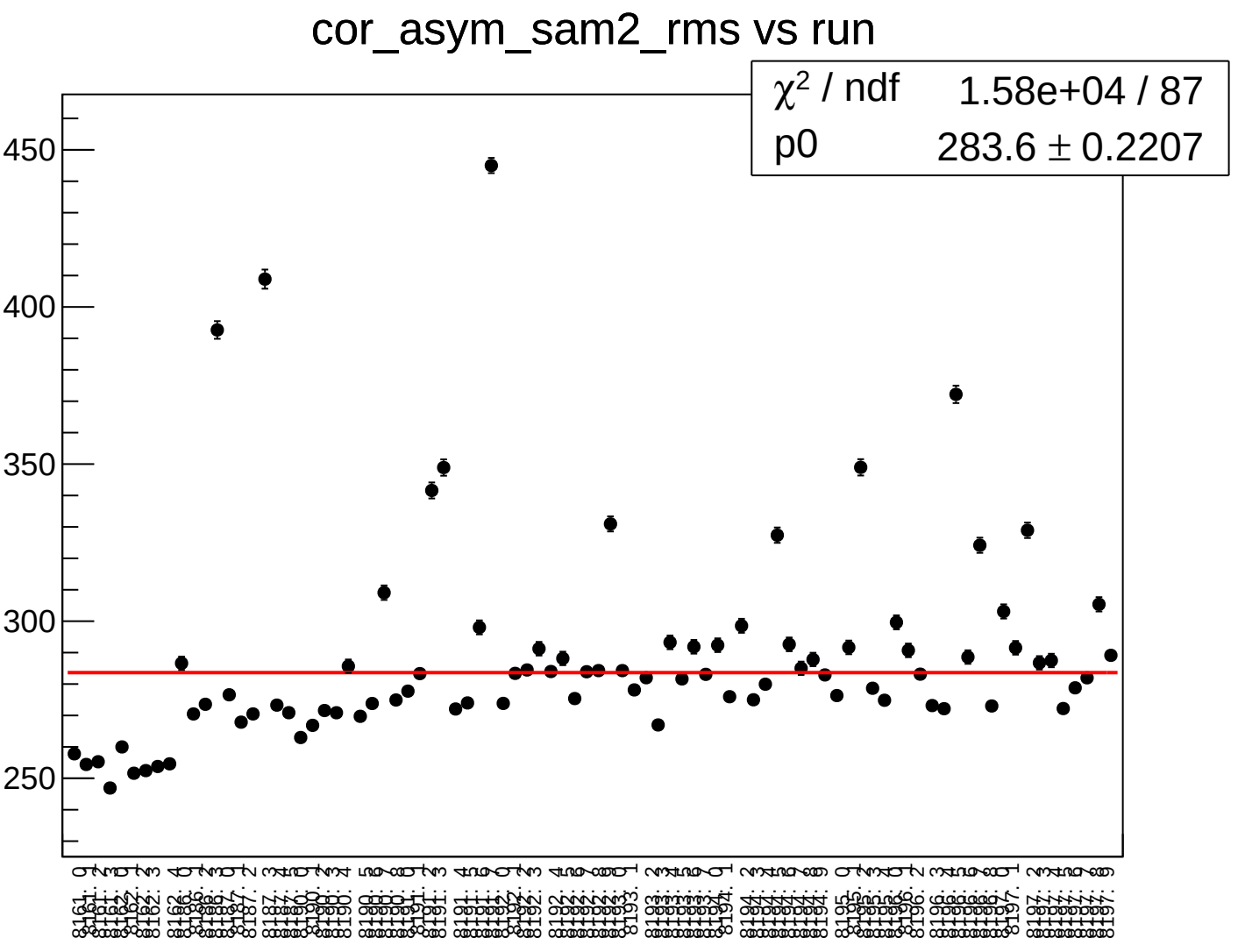

reg_asym_sam2_rms vs run
χ² / ndf 1.58e+04 / 87
p0 283.6 ± 0.2207
450
400
350
300
250

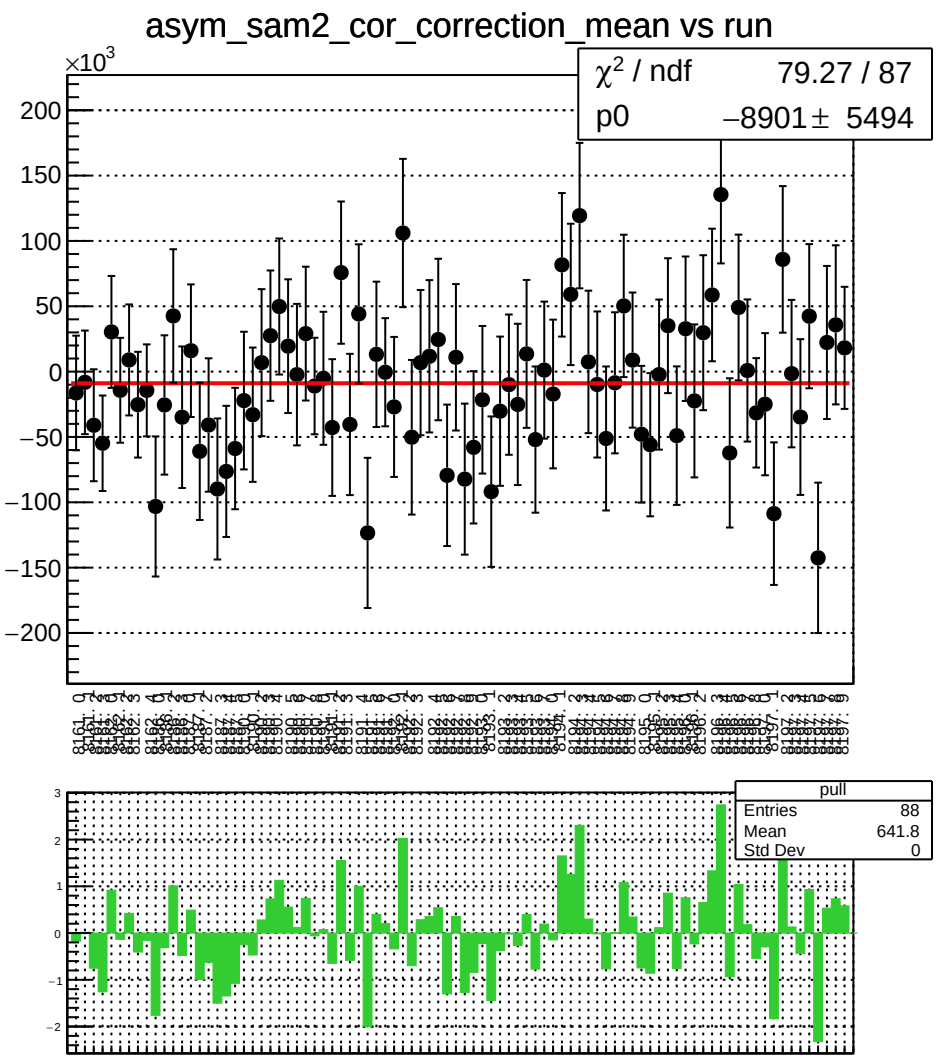

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 79.27 / 87
p0 −8901 ± 5494
pull
Entries 88
Mean 641.9
Std Dev 0
pull1D
Entries 88
Mean 0.006971
Std Dev 0.9491

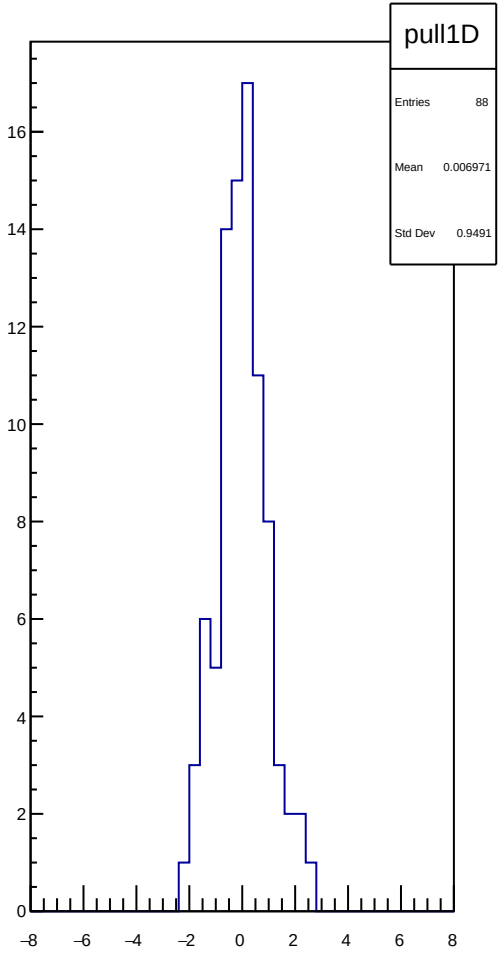

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.841e+04 / 87
p0 4988 ± 3.885
6000
5500
5000
4500
4000

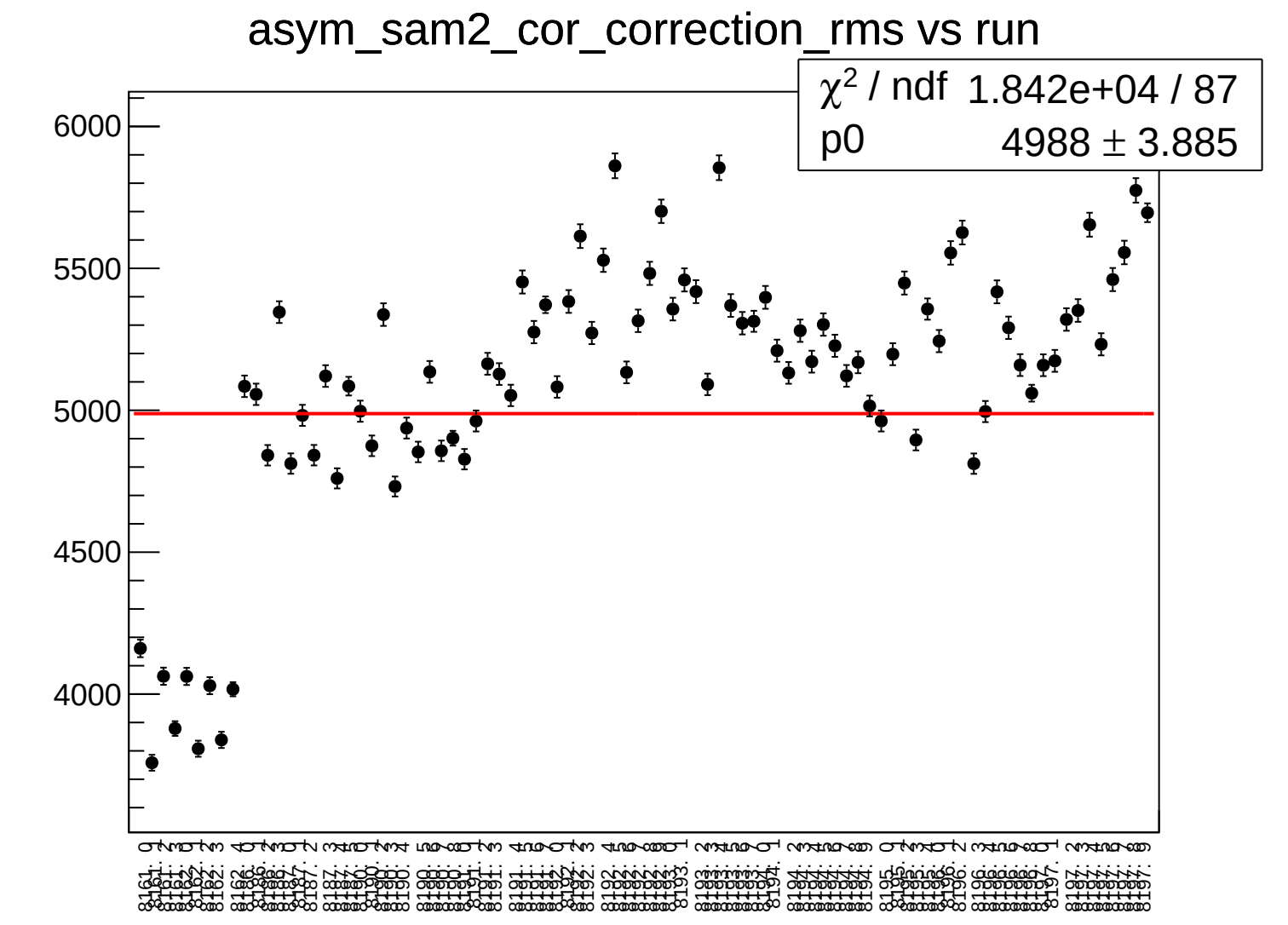

cor_asym_sam2_mean vs run
χ² / ndf 77.77 / 87
p0 −705.8 ± 312.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −136.9
Std Dev 0
2
1
0
−1
−2

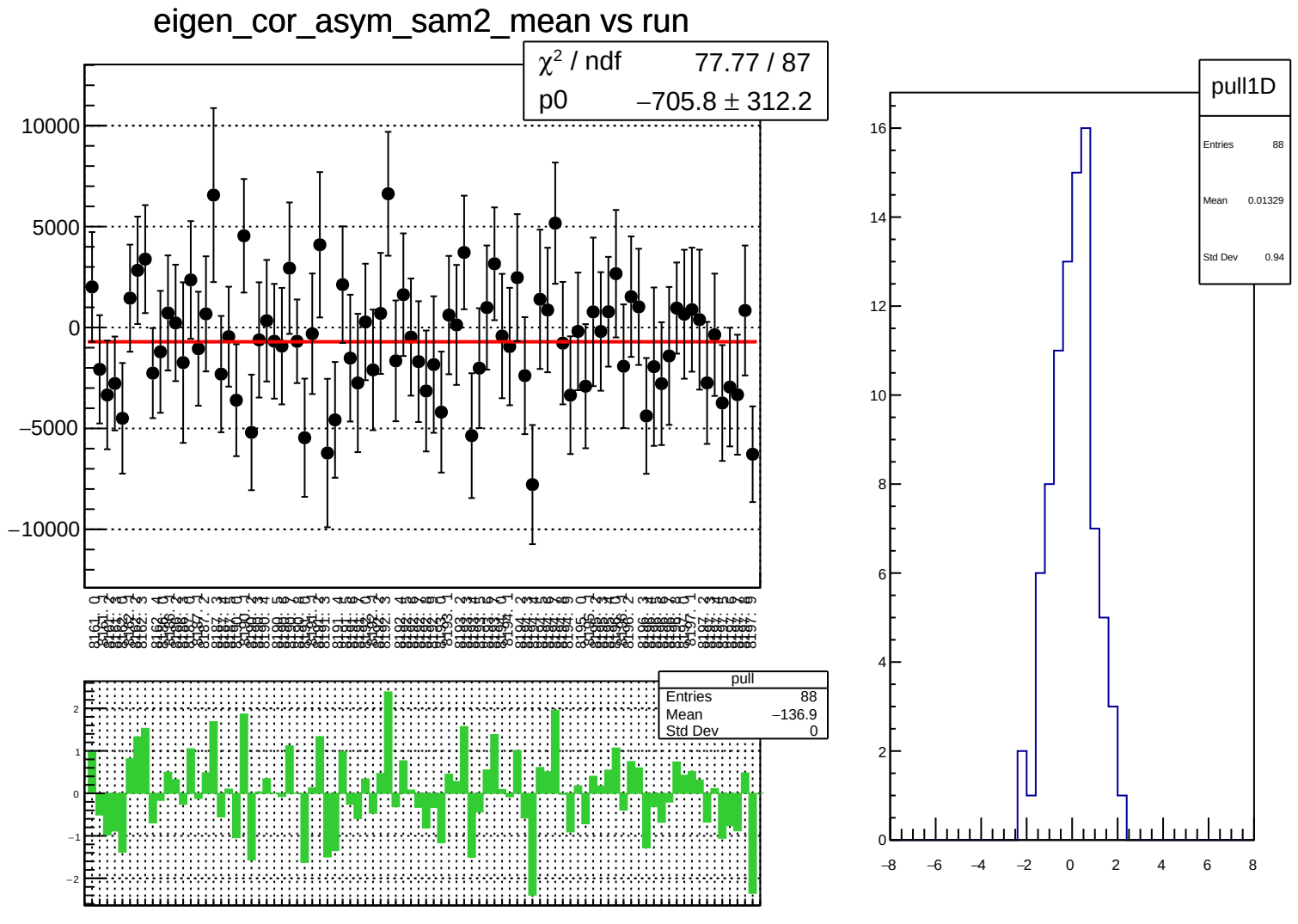

pull1D
Entries 88
Mean 0.01329
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

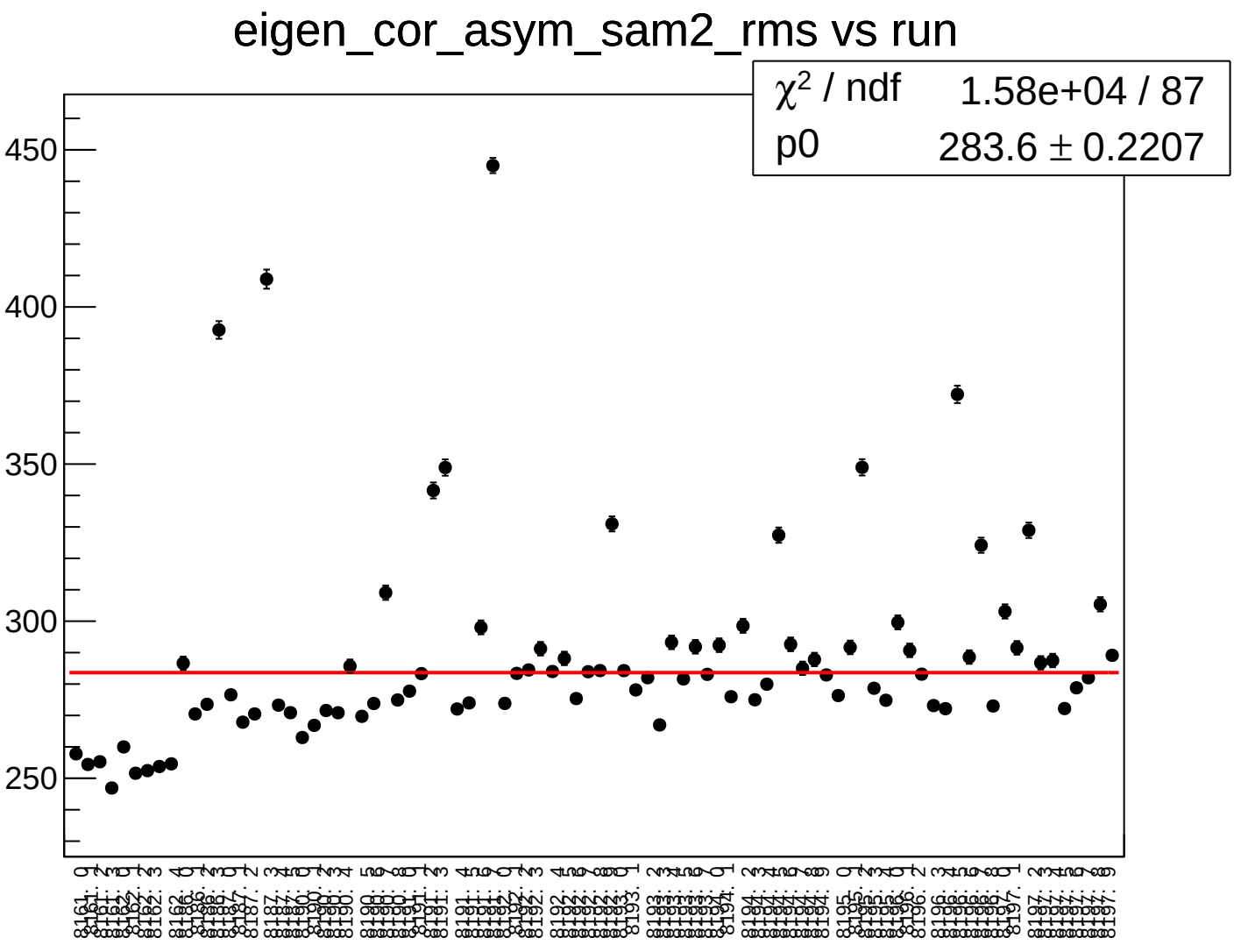

cor_asym_sam2_rms vs run
χ² / ndf 1.58e+04 / 87
p0 283.6 ± 0.2207
450
400
350
300
250

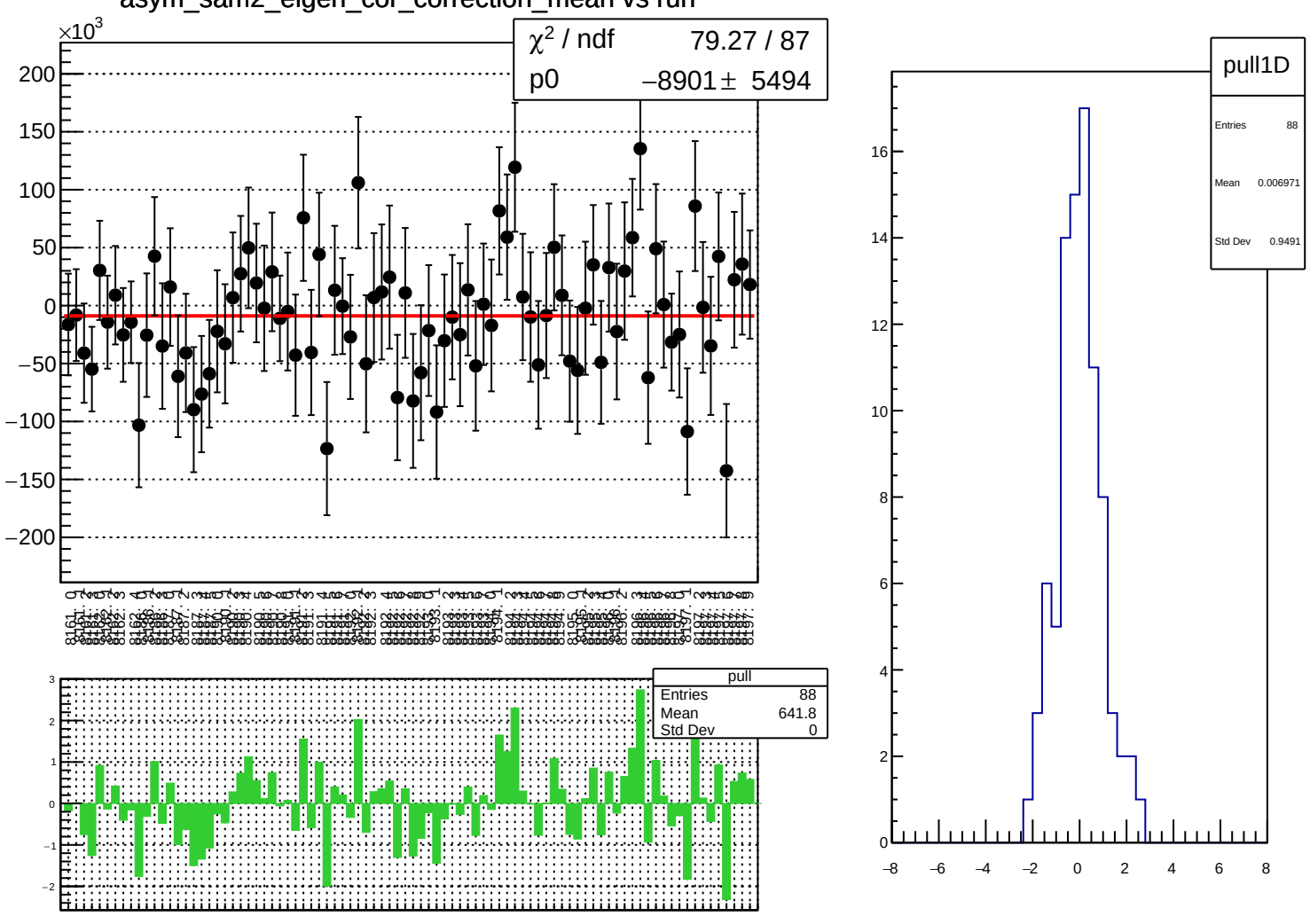

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 79.27 / 87
p0 −8901 ± 5494
pull
Entries 88
Mean 641.8
Std Dev 0

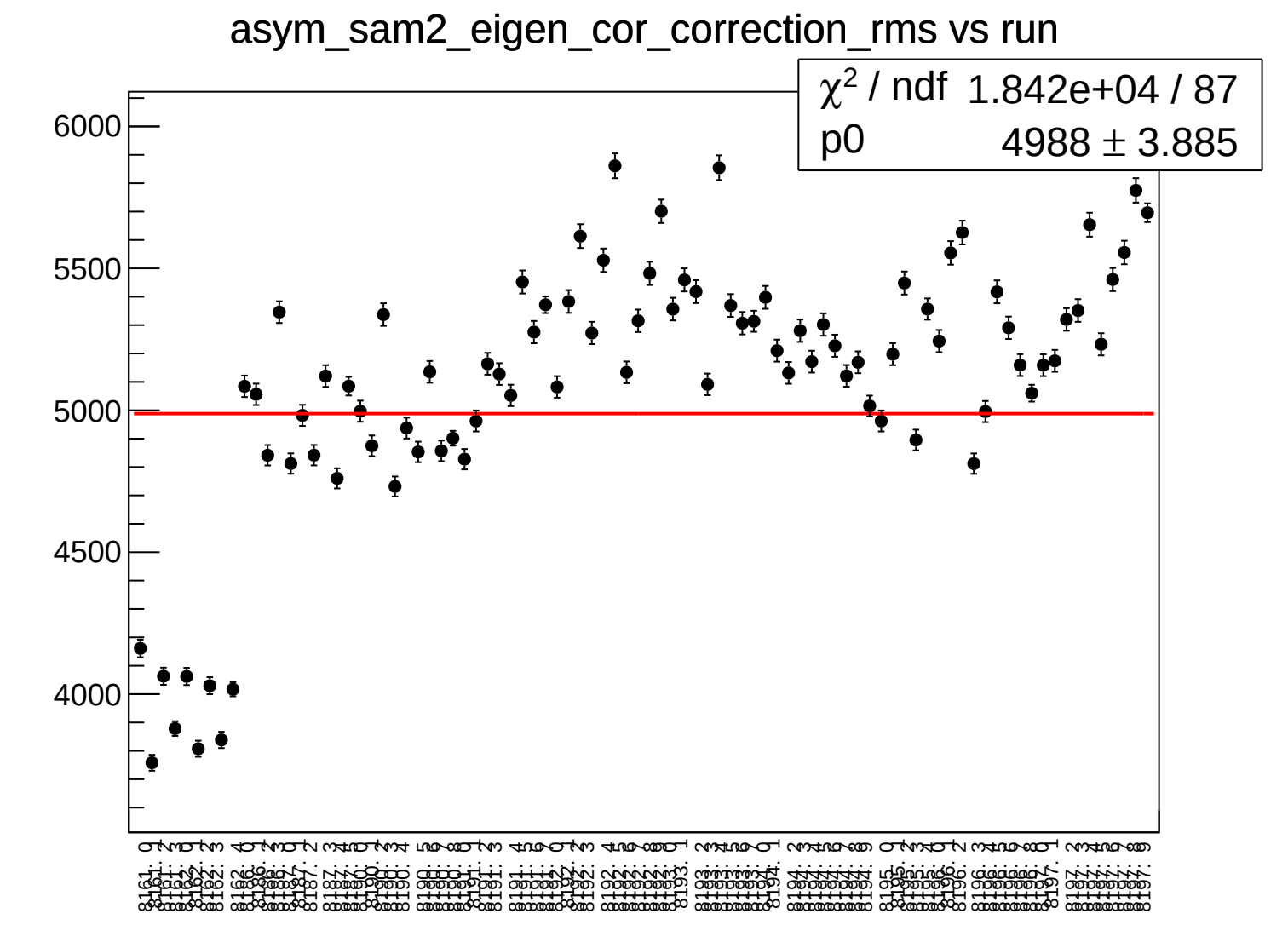

pull1D
Entries 88
Mean 0.006971
Std Dev 0.9491

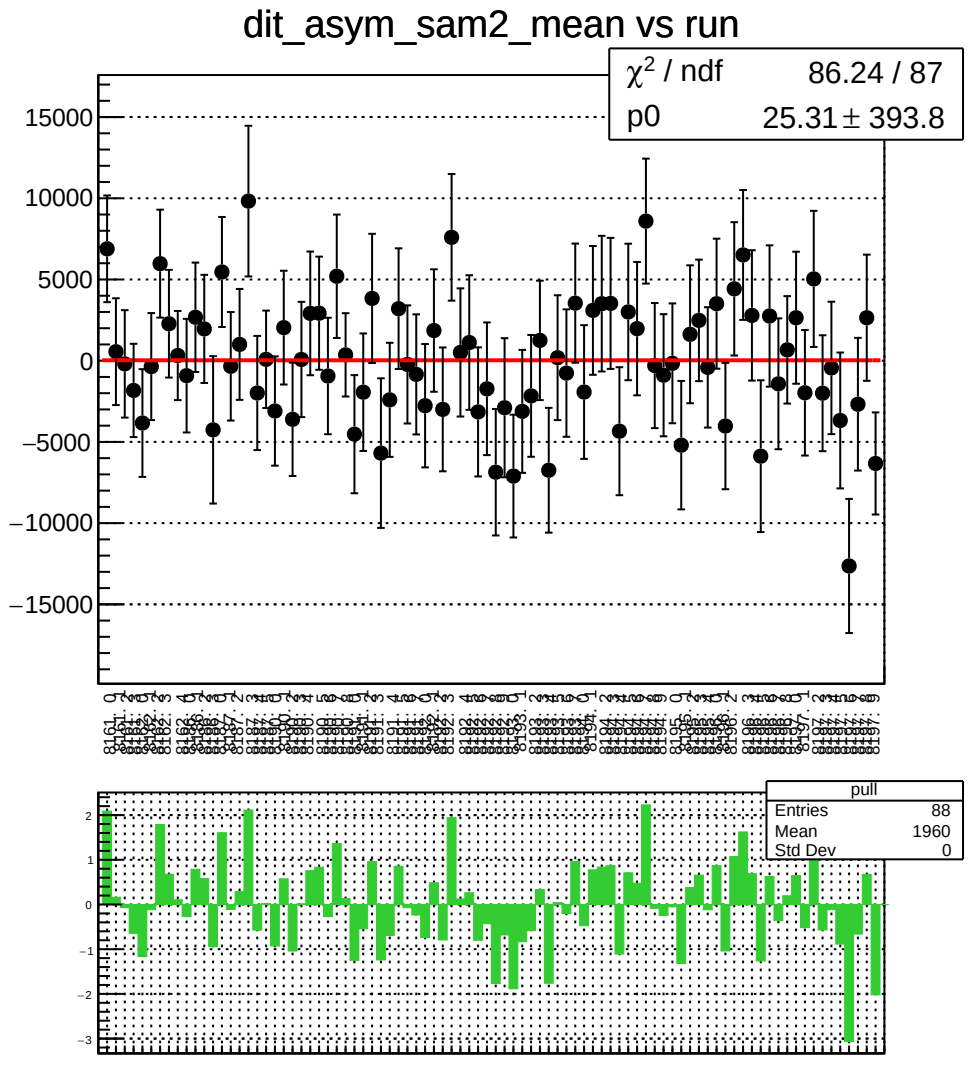

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.842e+04 / 87
p0 4988 ± 3.885
6000
5500
5000
4500
4000

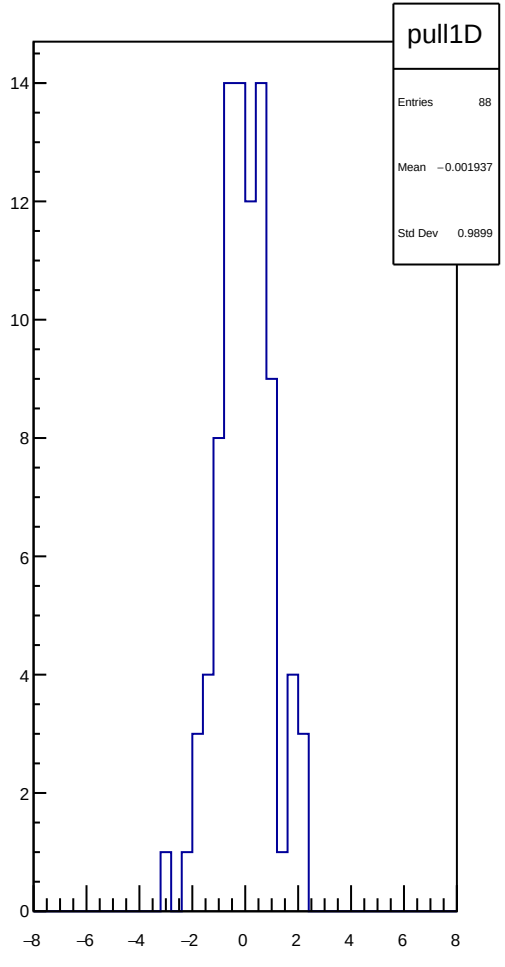

eigen_cor_asym_sam2_mean vs run
χ² / ndf 77.77 / 87
p0 −705.8 ± 312.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −136.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01329
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam2_rms vs run
χ² / ndf 1.58e+04 / 87
p0 283.6 ± 0.2207
450
400
350
300
250

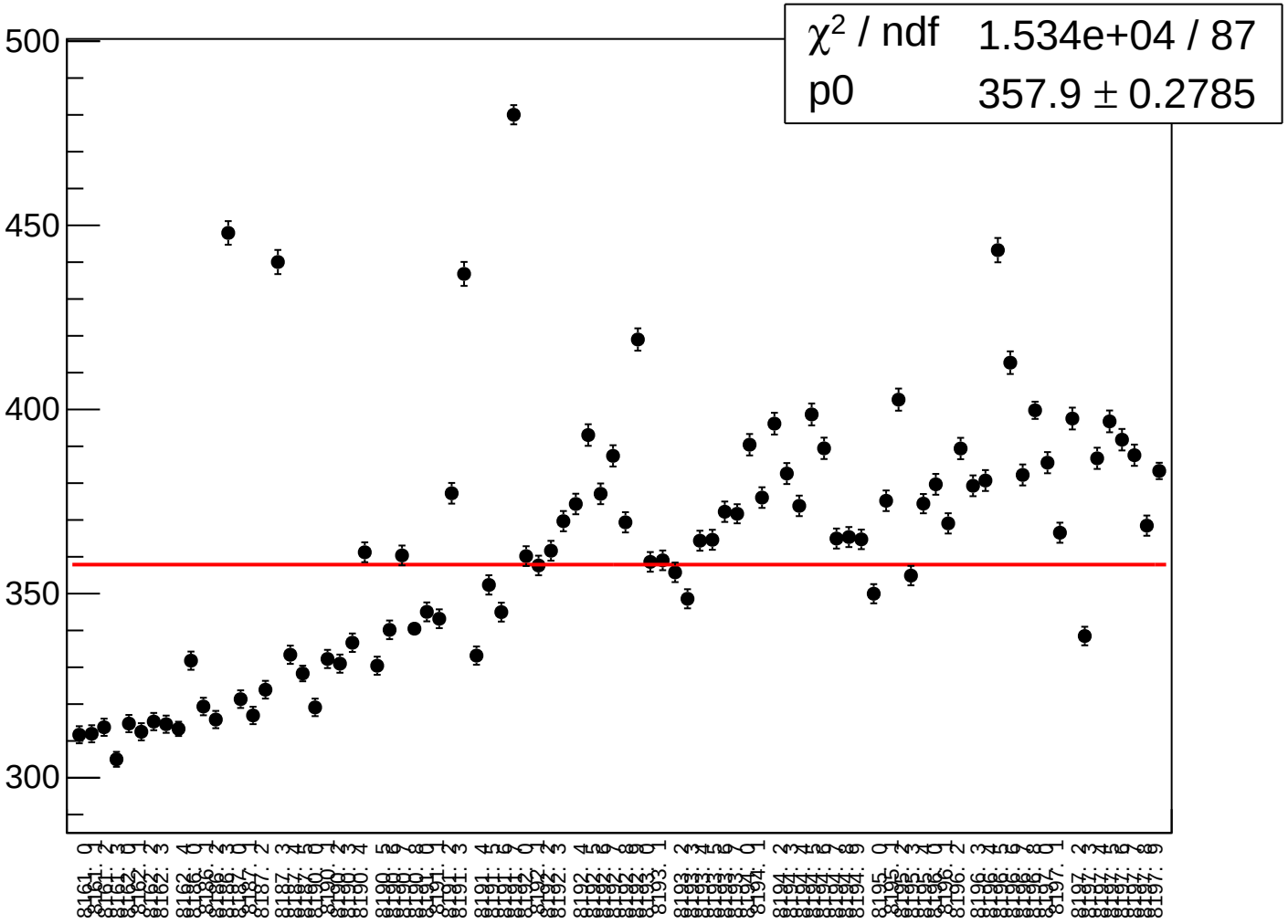

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.27 / 87
p0 −8901 ± 5494
pull
Entries 88
Mean 641.8
Std Dev 0
pull1D
Entries 88
Mean 0.006971
Std Dev 0.9491

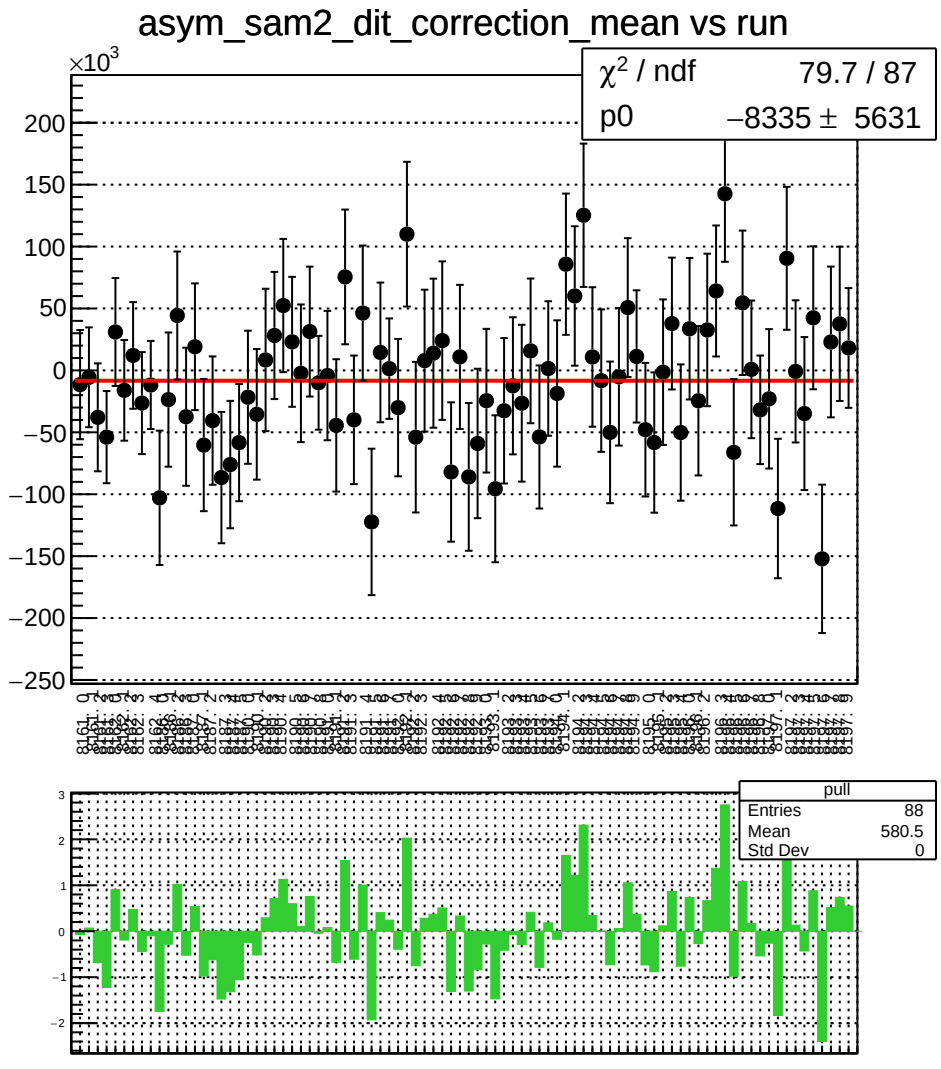

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.842e+04 / 87
p0 4988 ± 3.885
6000
5500
5000
4500
4000

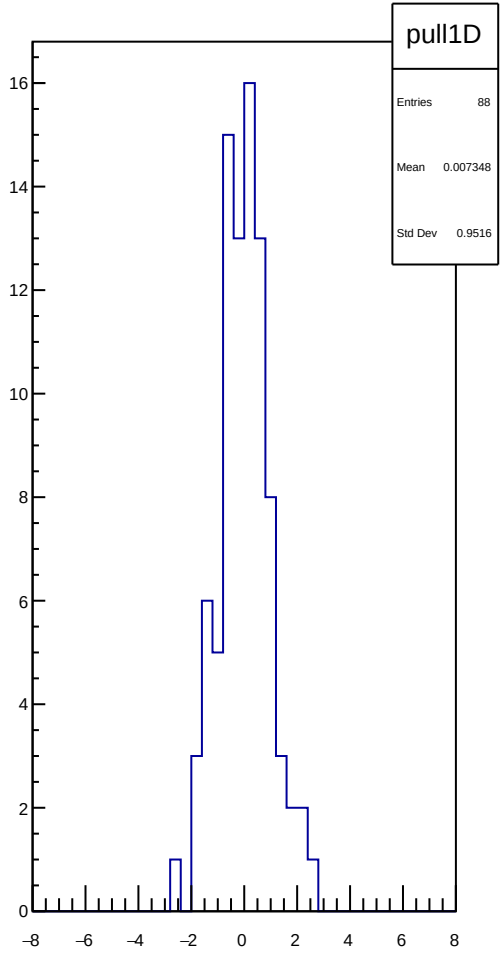

dit_asym_sam2_mean vs run
χ² / ndf 86.24 / 87
p0 25.31 ± 393.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 1960
Std Dev 0
2
1
0
−1
−2
−3

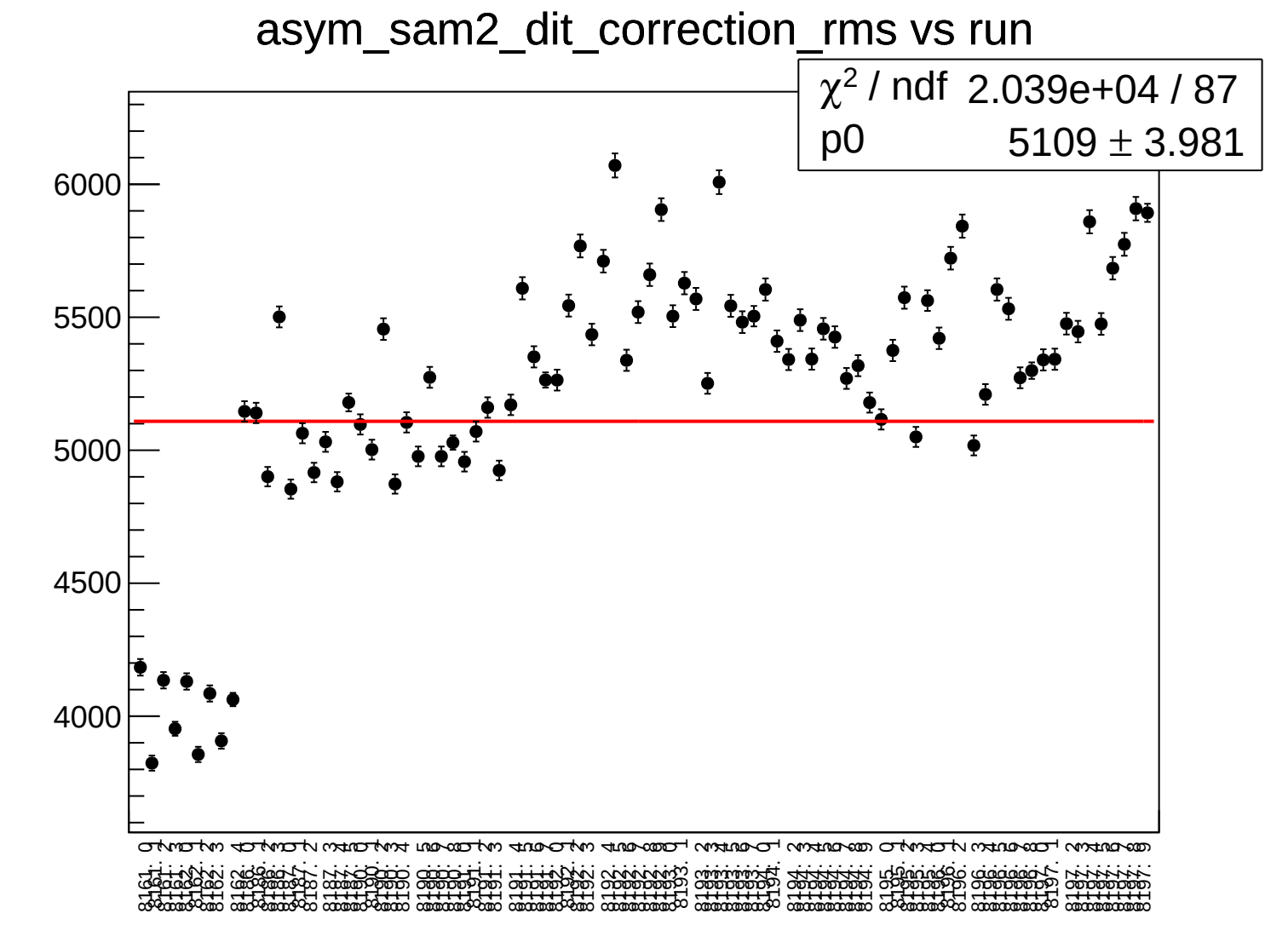

pull1D
Entries 88
Mean −0.001937
Std Dev 0.9899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

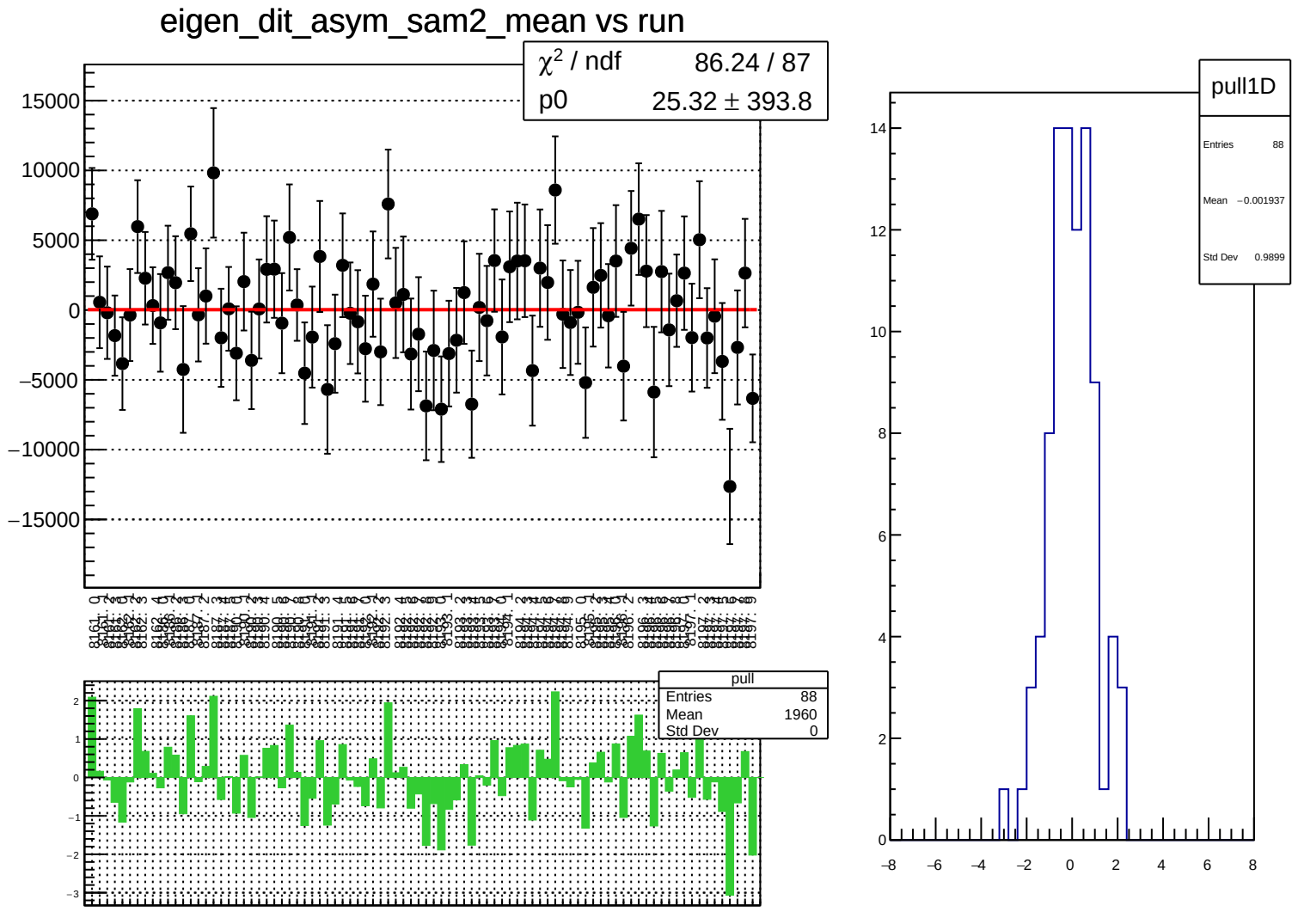
dit_asym_sam2_rms vs run

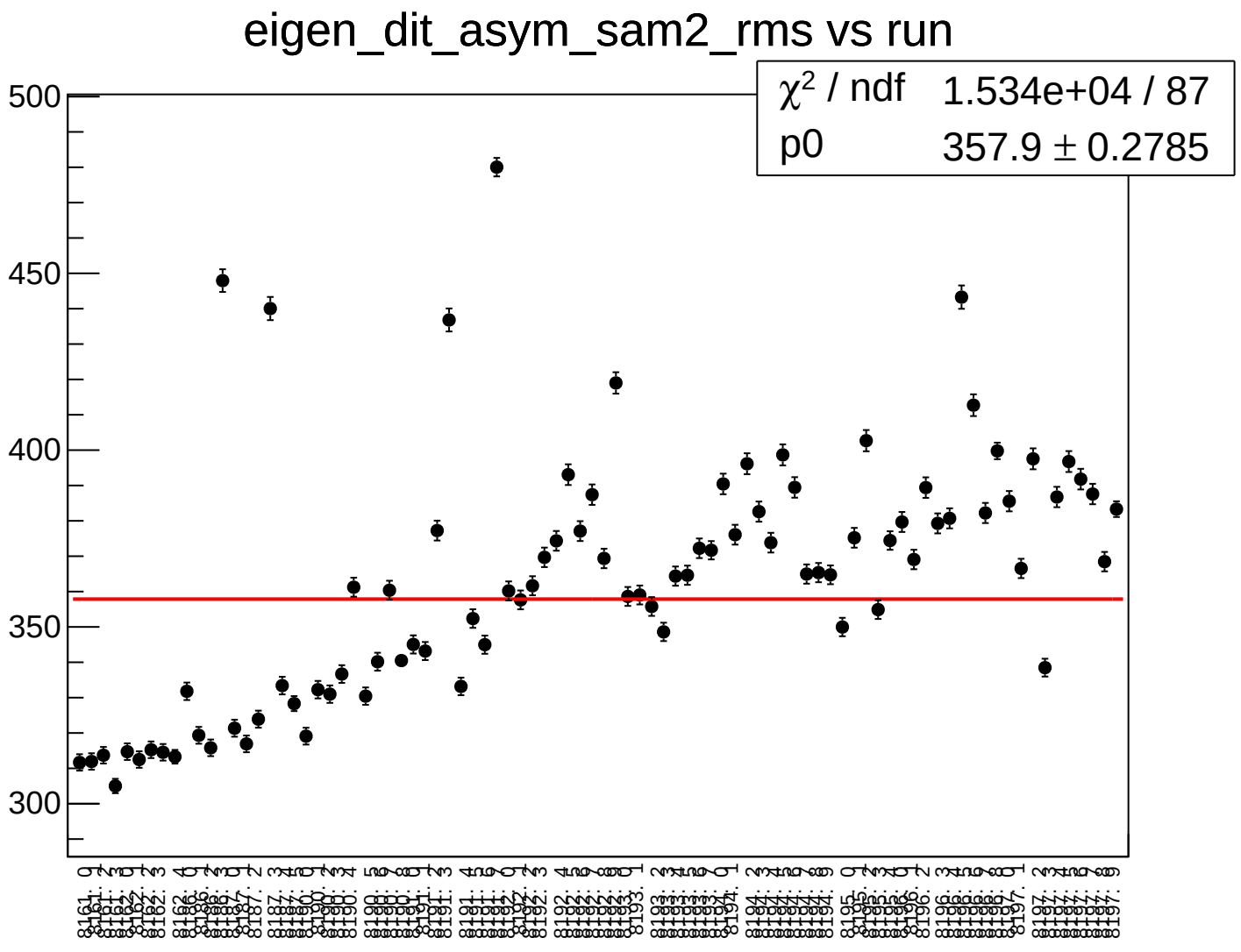


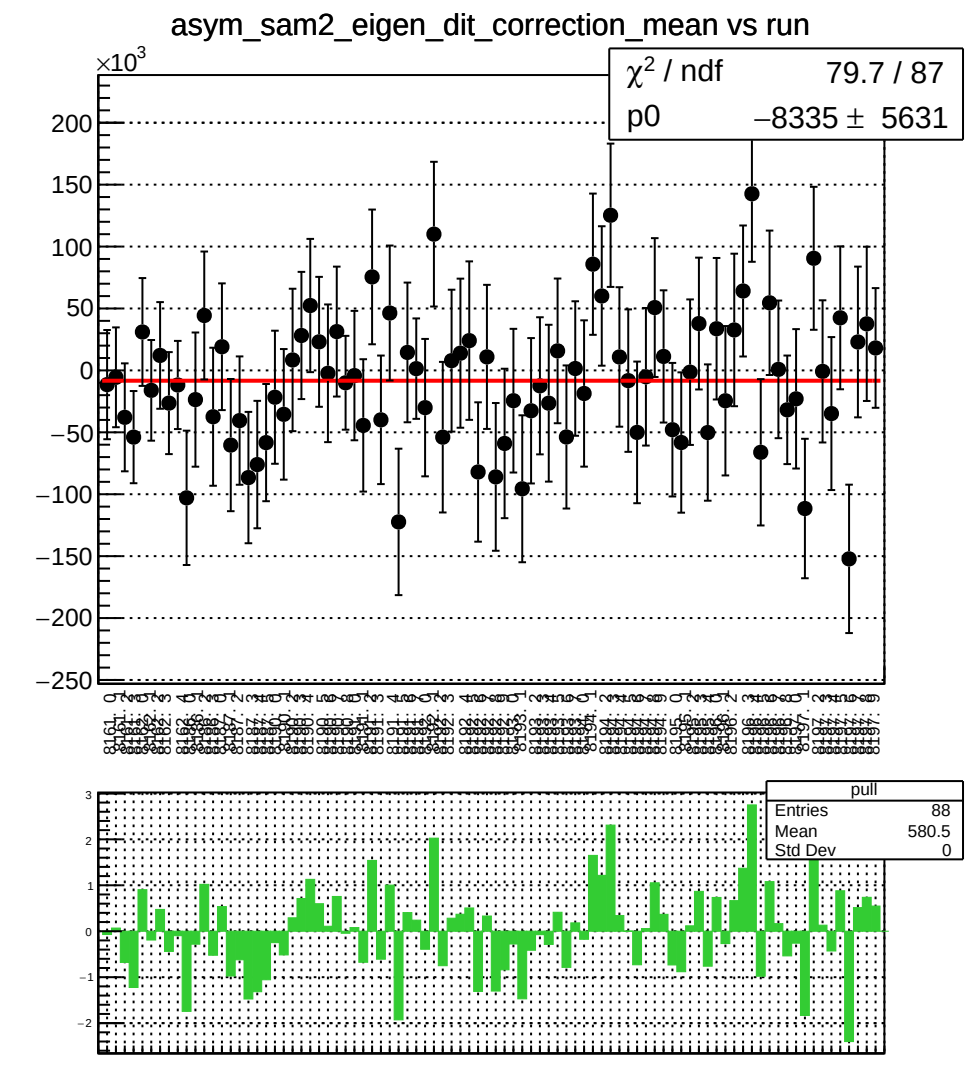

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 79.7 / 87
p0 −8335 ± 5631
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 88
Mean 580.5
Std Dev 0
3
2
1
0
−1
−2

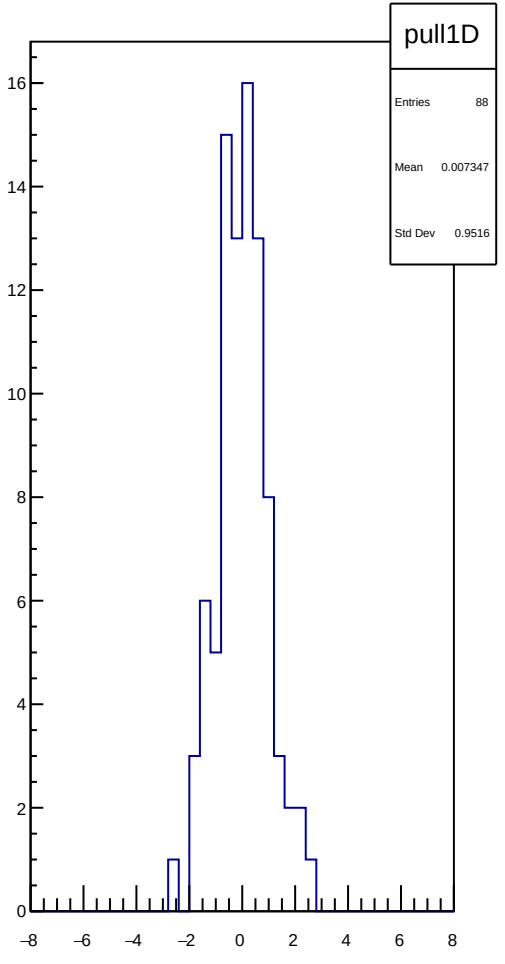

pull1D
Entries 88
Mean 0.007348
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

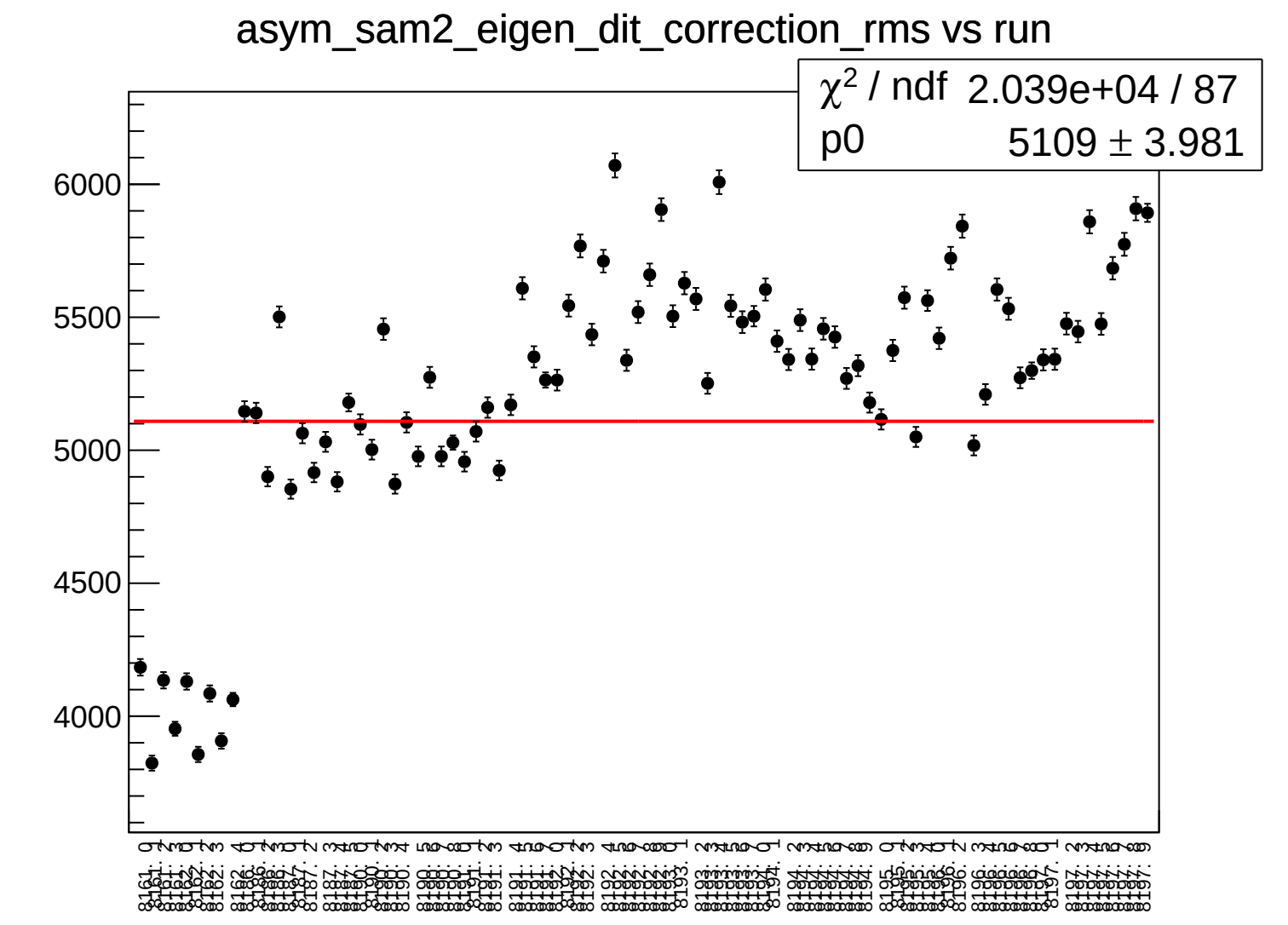

asym_sam2_dit_correction_rms vs run
χ² / ndf 2.039e+04 / 87
p0 5109 ± 3.981
6000
5500
5000
4500
4000

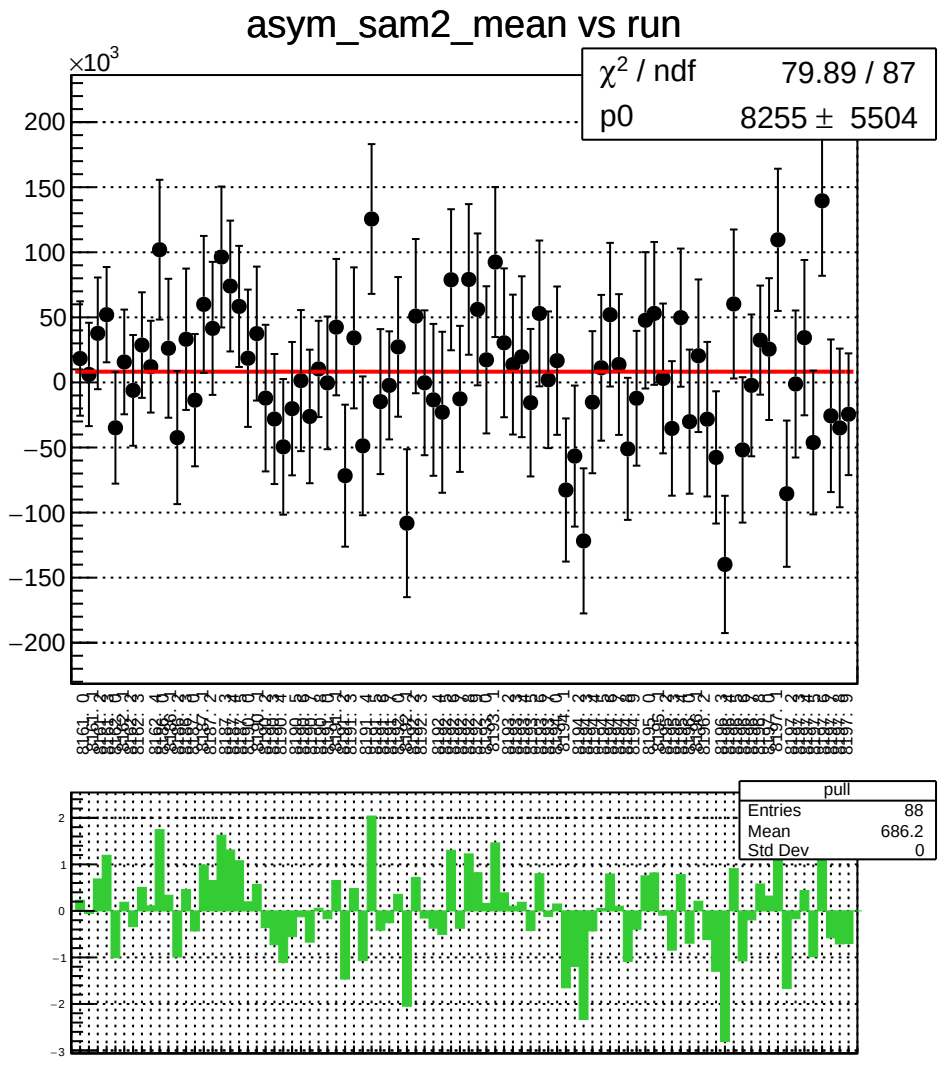

eigen_dit_asym_sam2_mean vs run
χ² / ndf 86.24 / 87
p0 25.32 ± 393.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 1960
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.001937
Std Dev 0.9899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

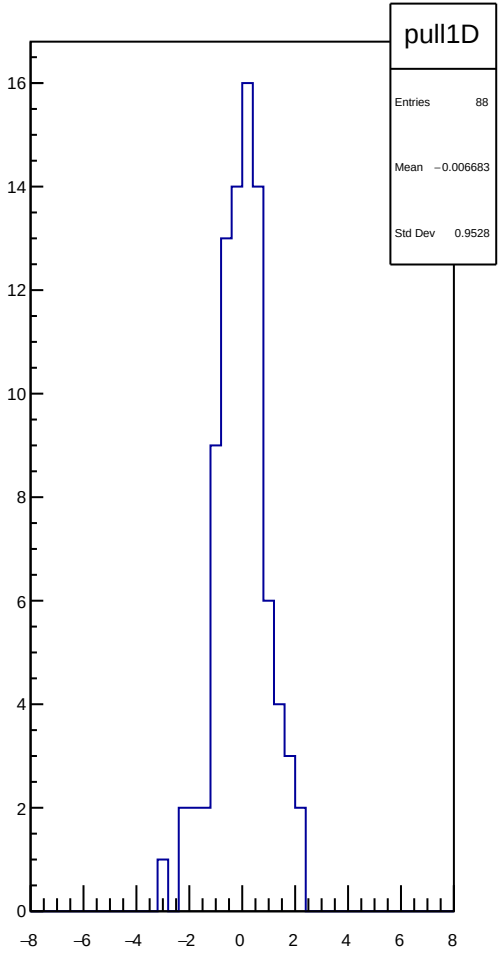

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1.534e+04 / 87
p0 357.9 ± 0.2785
500
450
400
350
300

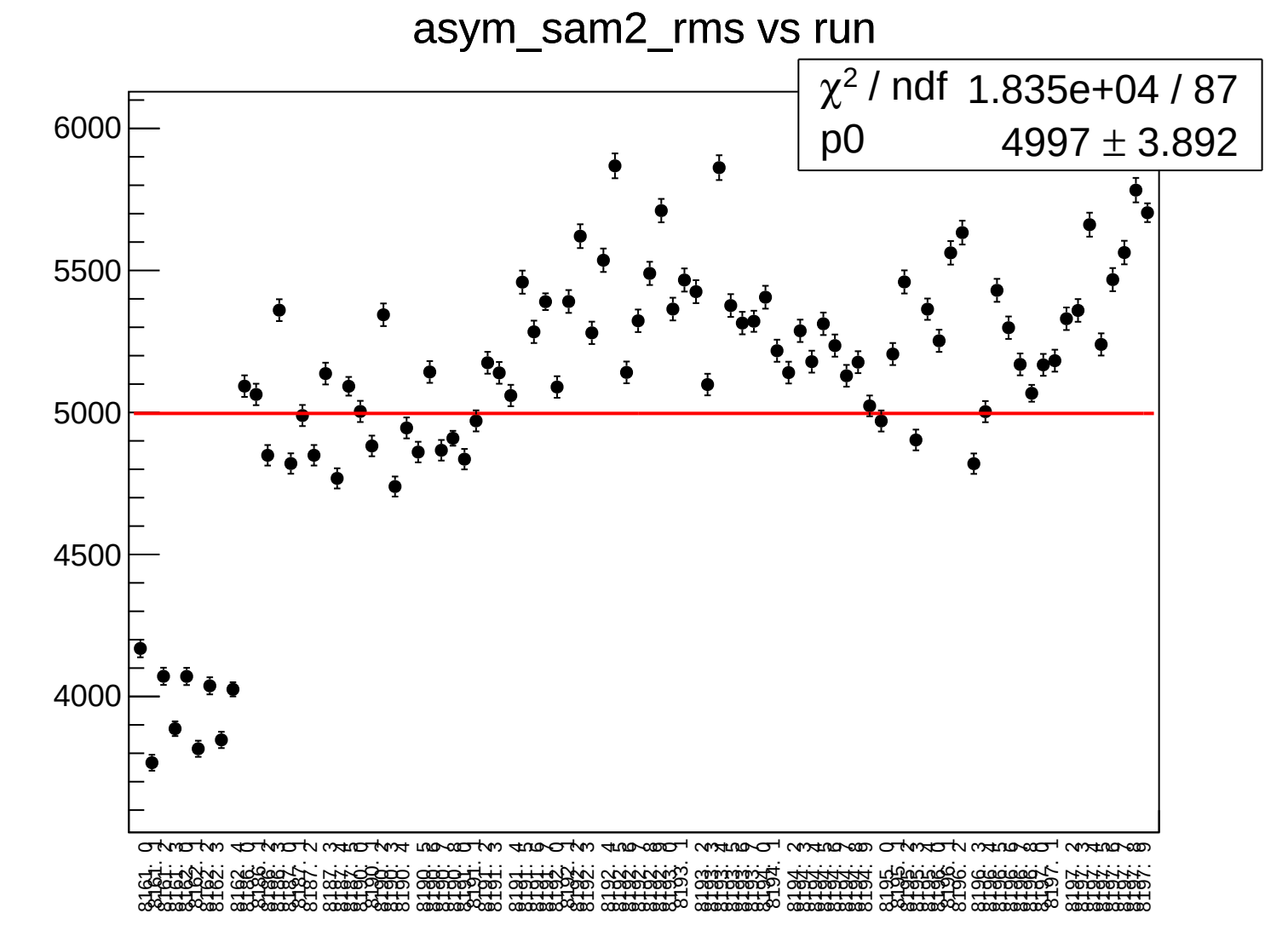

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.7 / 87
p0 −8335 ± 5631
pull
Entries 88
Mean 580.5
Std Dev 0

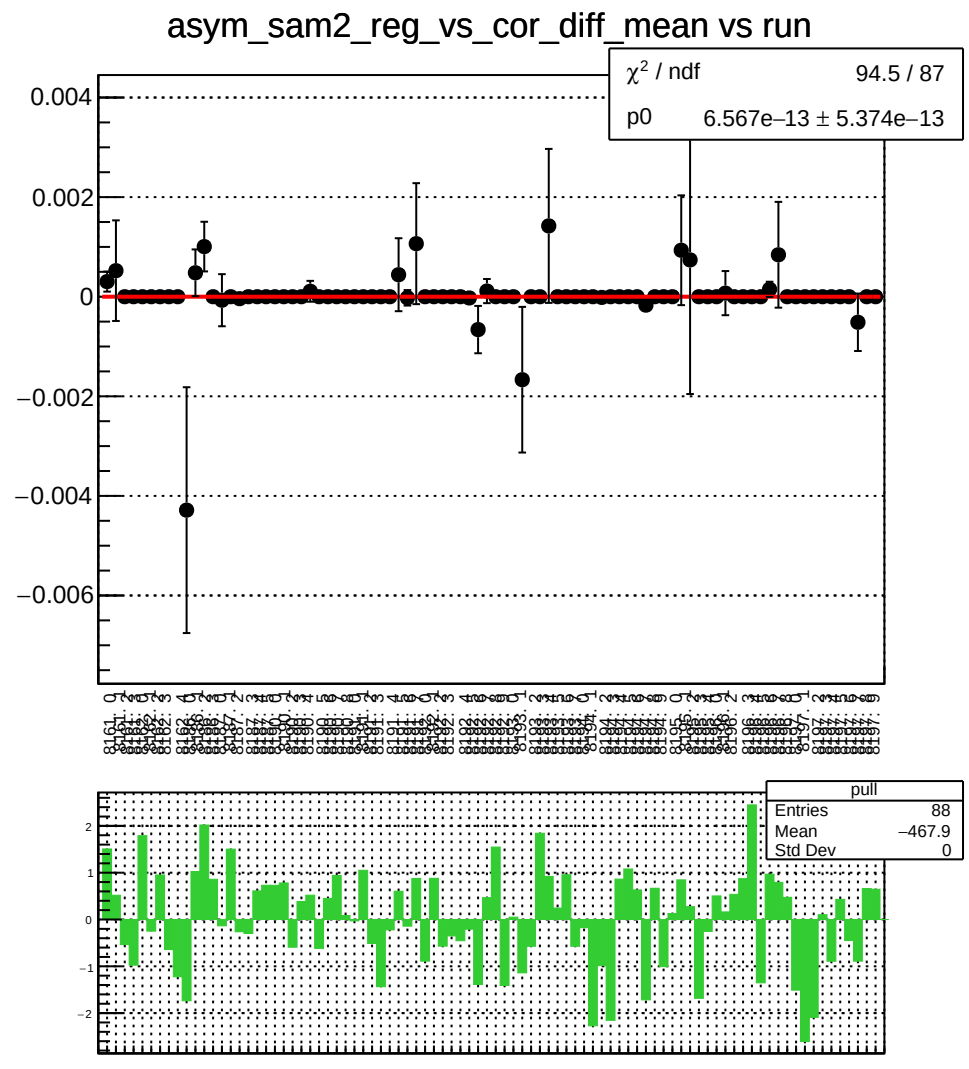

pull1D
Entries 88
Mean 0.007347
Std Dev 0.9516

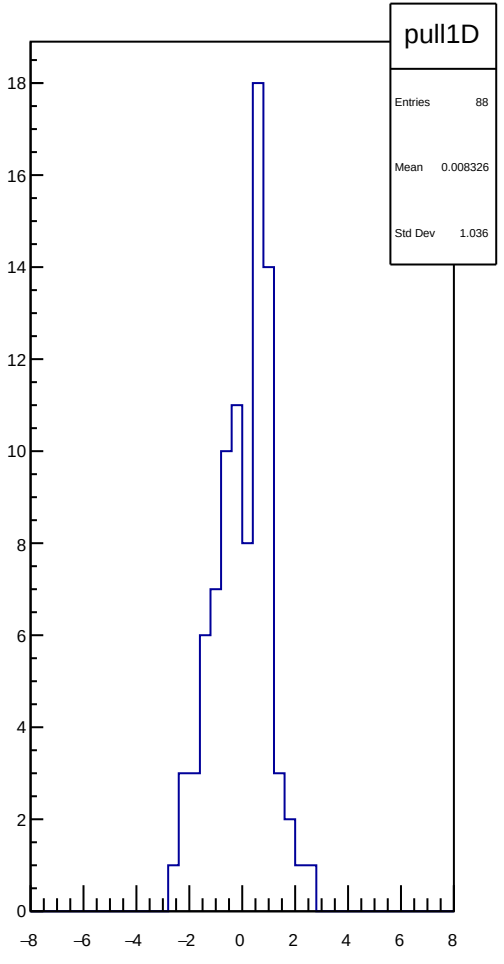

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2.039e+04 / 87
p0 5109 ± 3.981
6000
5500
5000
4500
4000

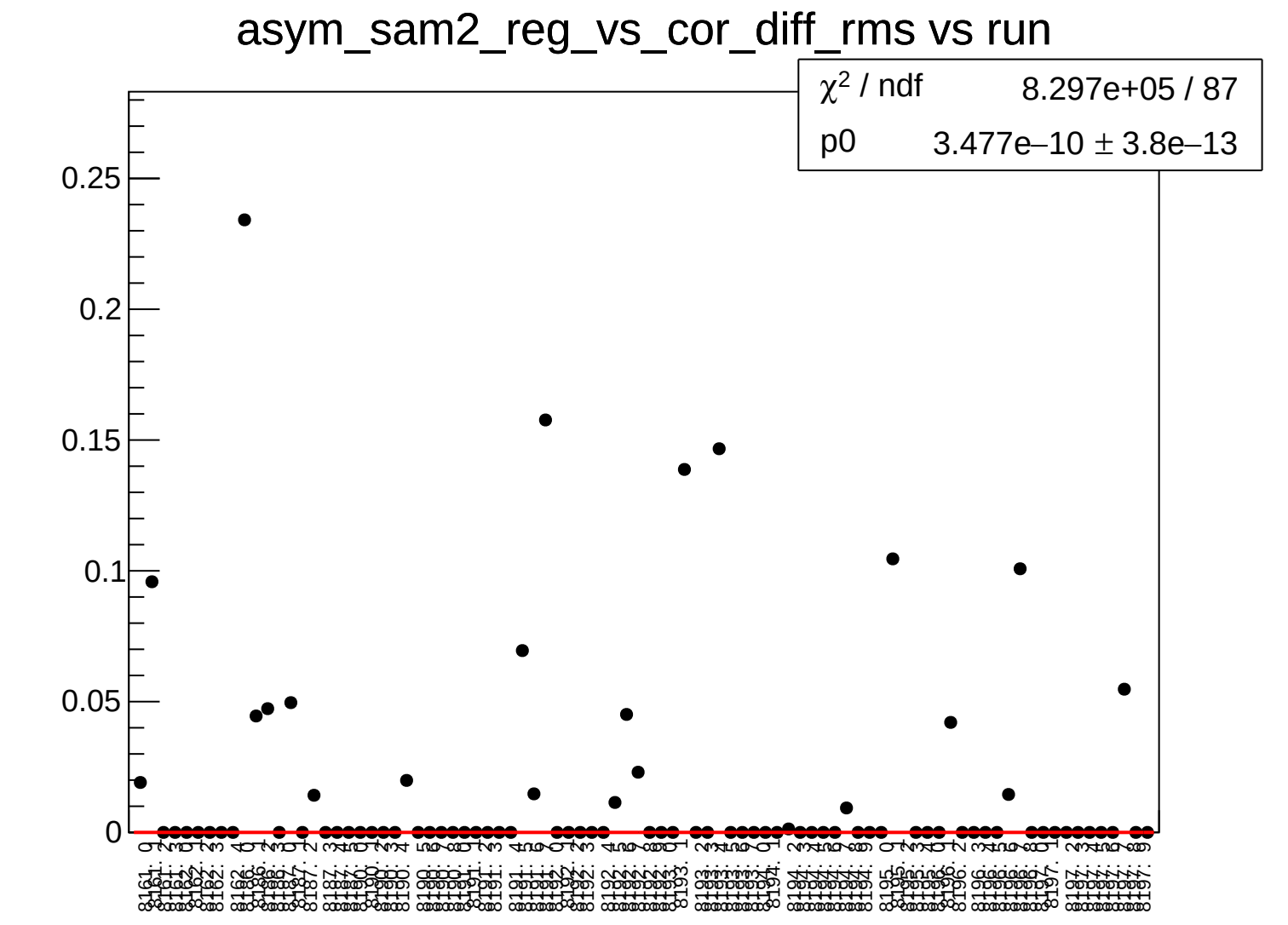

asym_sam2_mean vs run
×10^3
χ^2 / ndf 79.89 / 87
p0 8255 ± 5504
pull
Entries 88
Mean 686.2
Std Dev 0

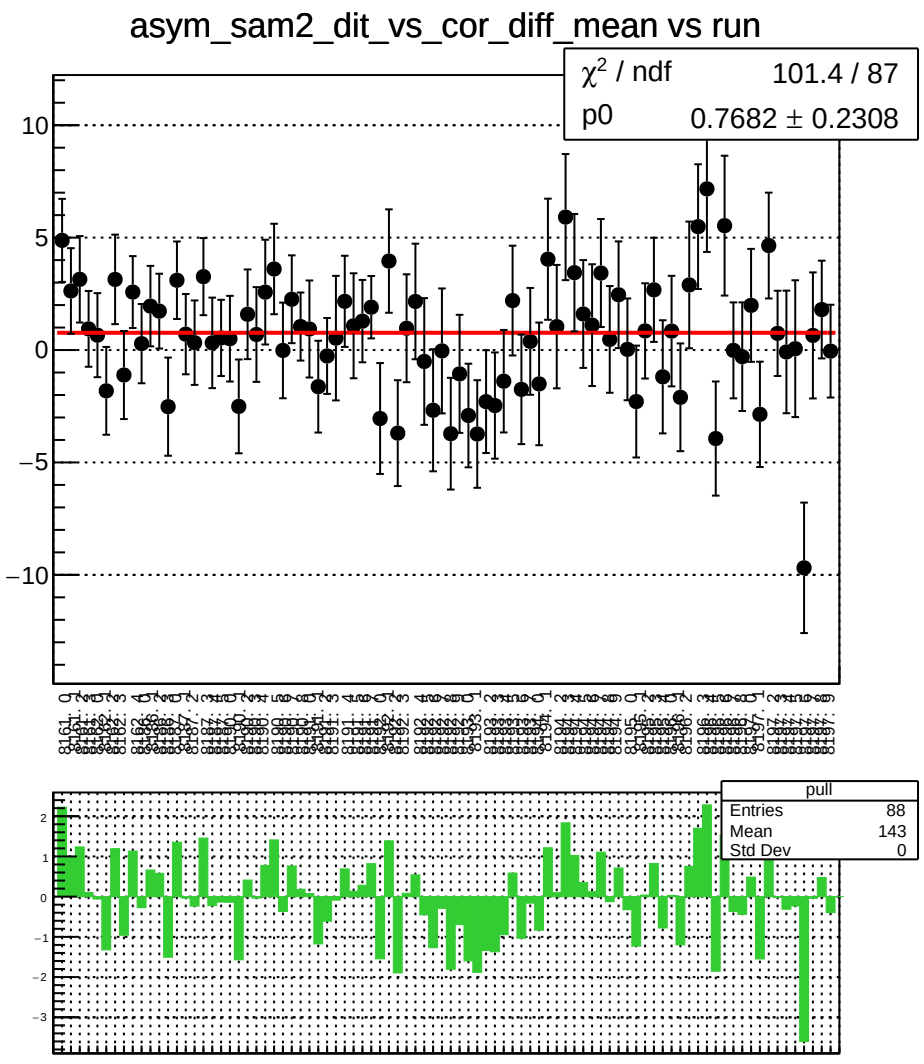

pull1D
Entries 88
Mean −0.006683
Std Dev 0.9528

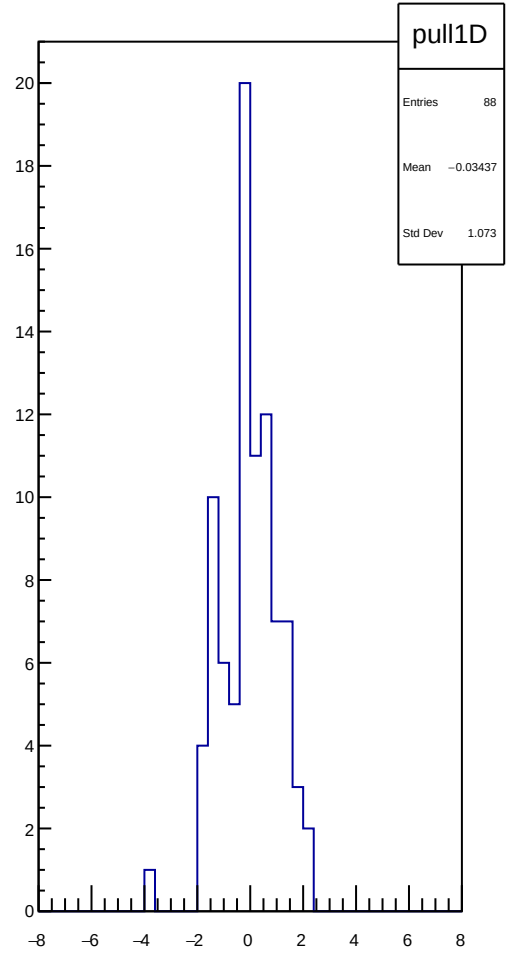

asym_sam2_rms vs run
χ² / ndf 1.835e+04 / 87
p0 4997 ± 3.892
6000
5500
5000
4500
4000

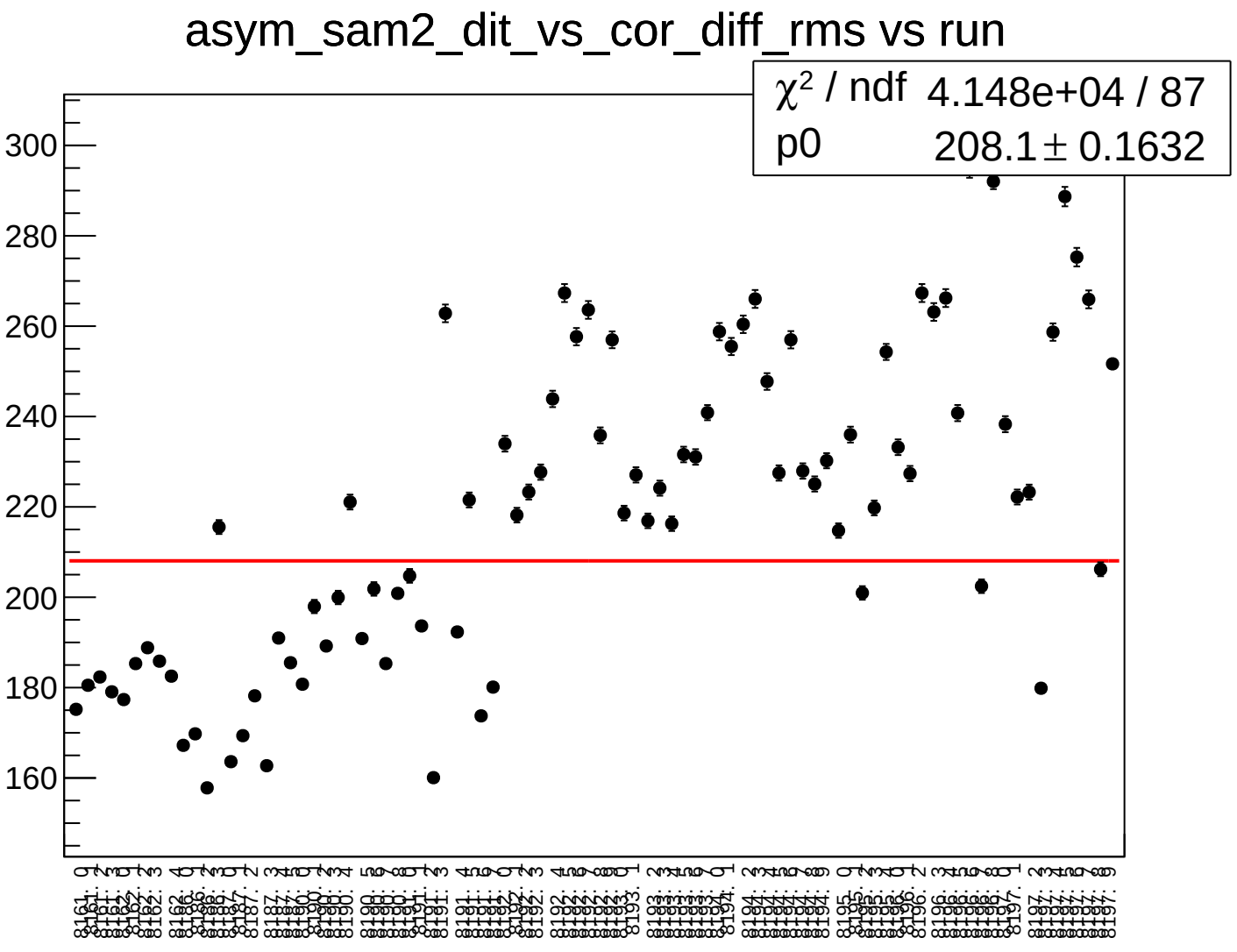

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 94.5 / 87
p0 6.567e−13 ± 5.374e−13
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 88
Mean −467.9
Std Dev 0
2
1
0
−1
−2

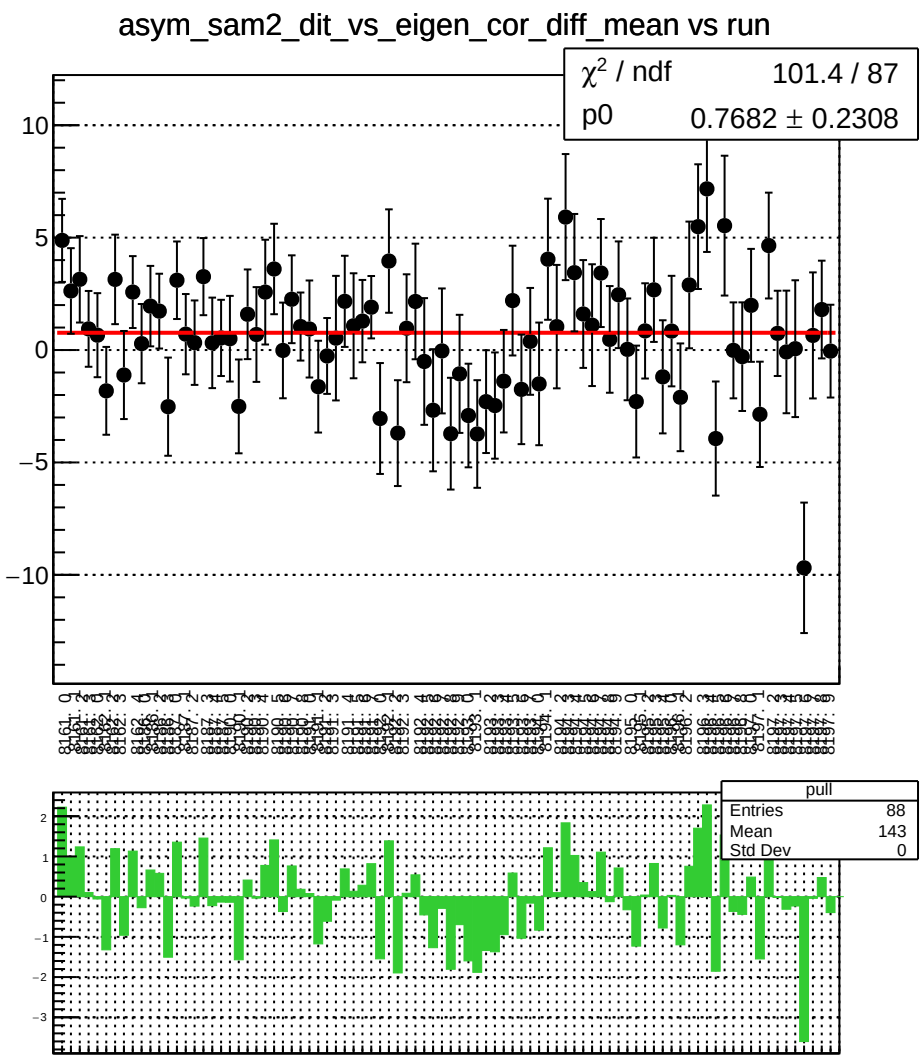

pull1D
Entries 88
Mean 0.008326
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

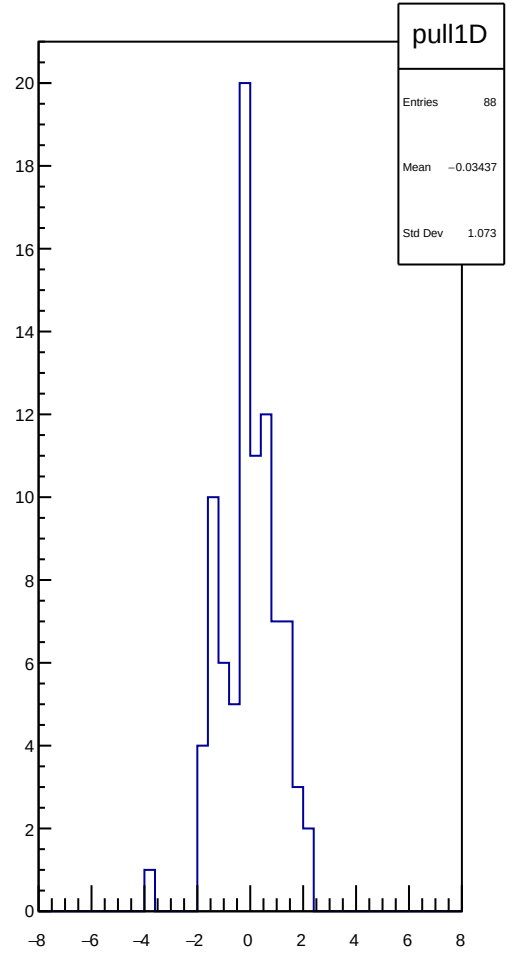

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.297e+05 / 87
p0 3.477e−10 ± 3.8e−13
0.25
0.2
0.15
0.1
0.05
0

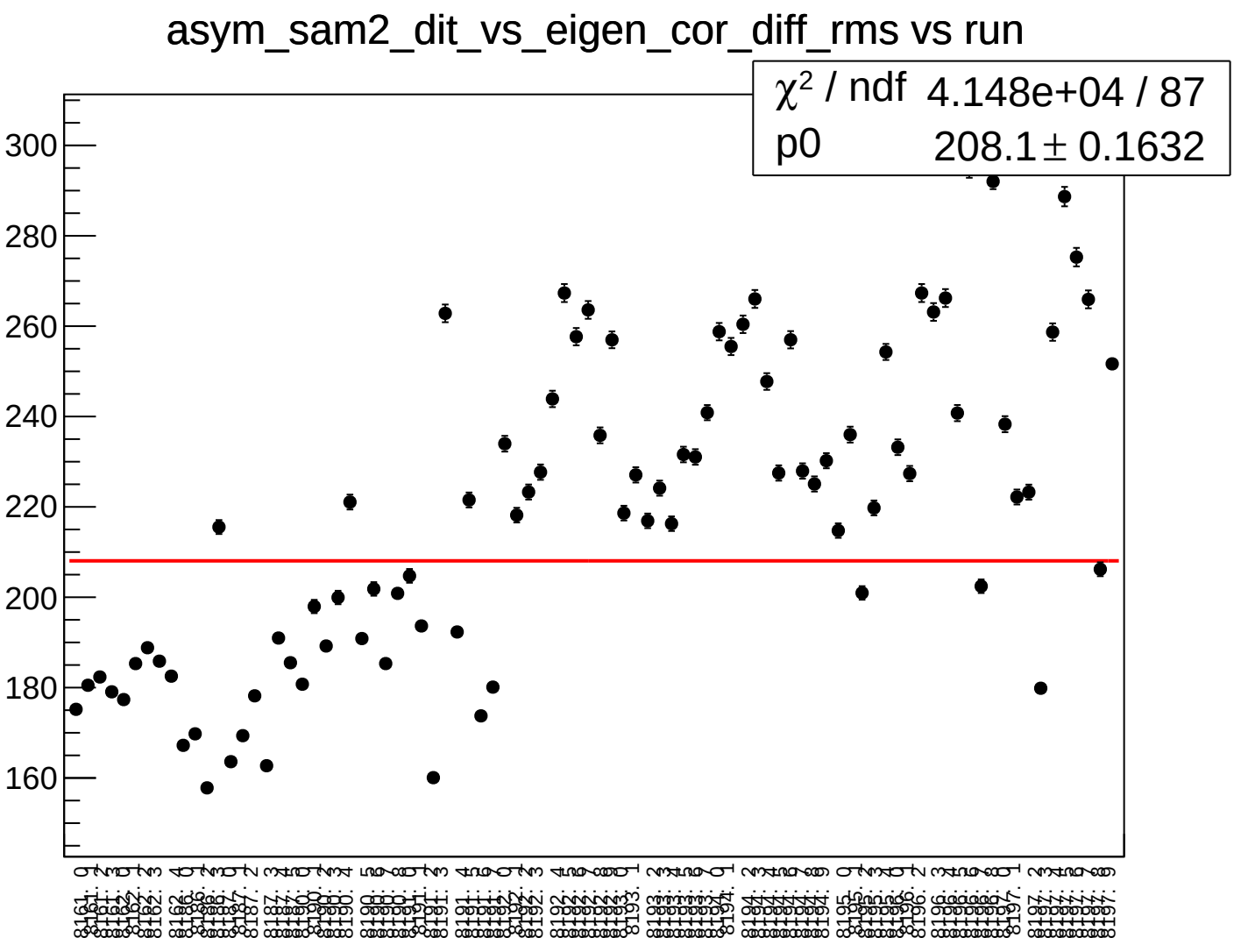

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 101.4 / 87
p0 0.7682 ± 0.2308
pull
Entries 88
Mean 143
Std Dev 0

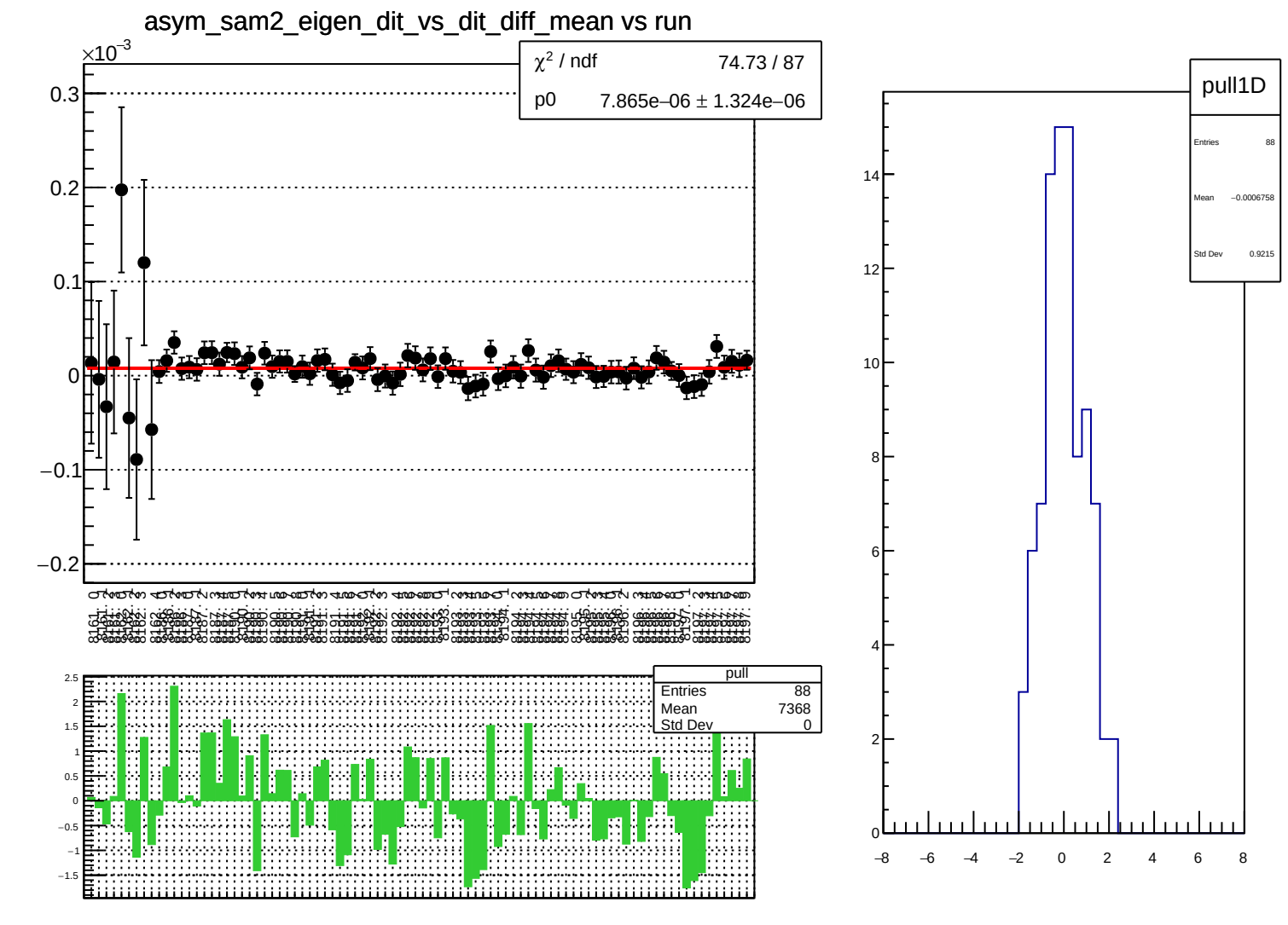

pull1D
Entries 88
Mean −0.03437
Std Dev 1.073

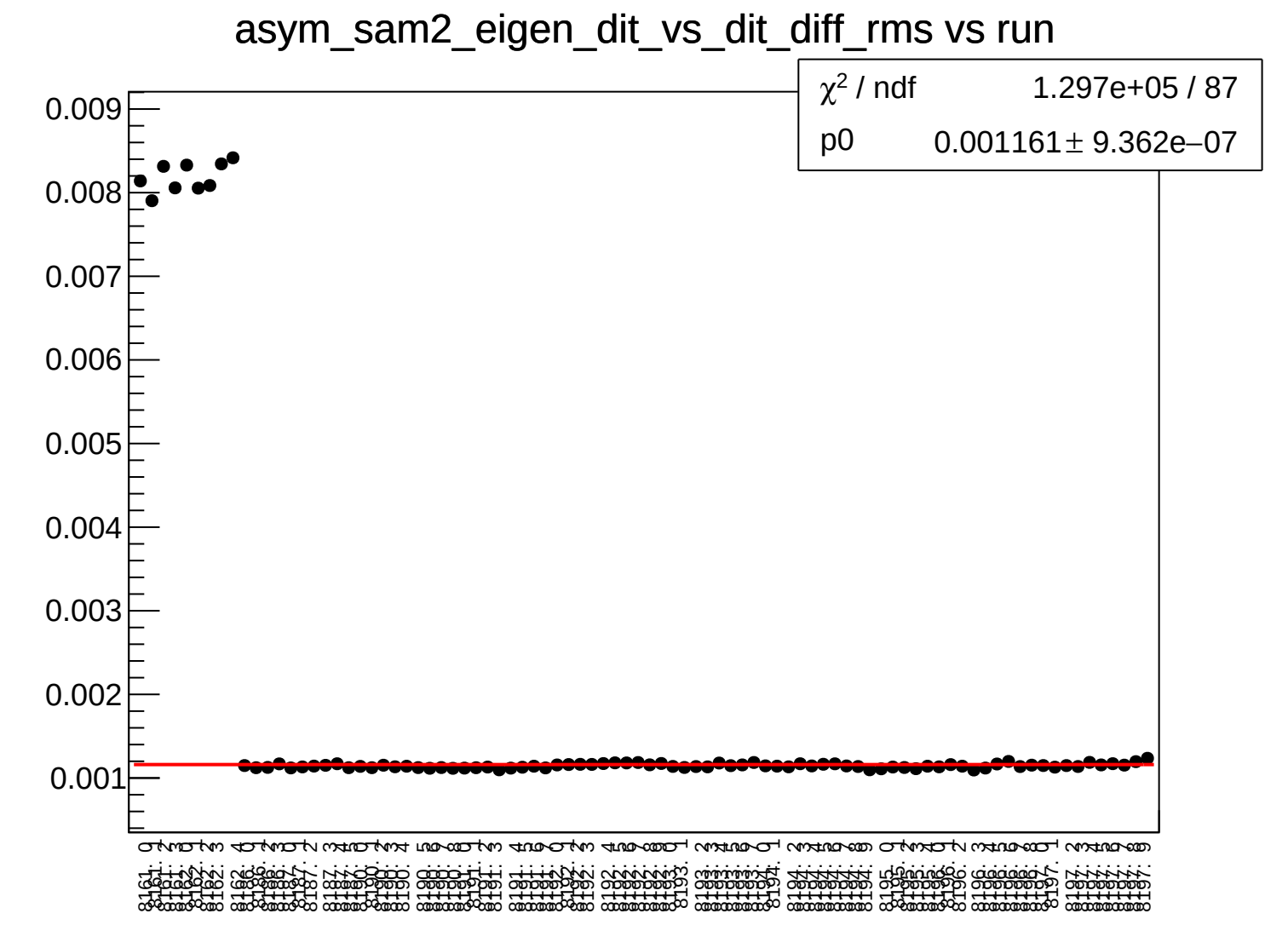

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.148e+04 / 87
p0 208.1 ± 0.1632
300
280
260
240
220
200
180
160

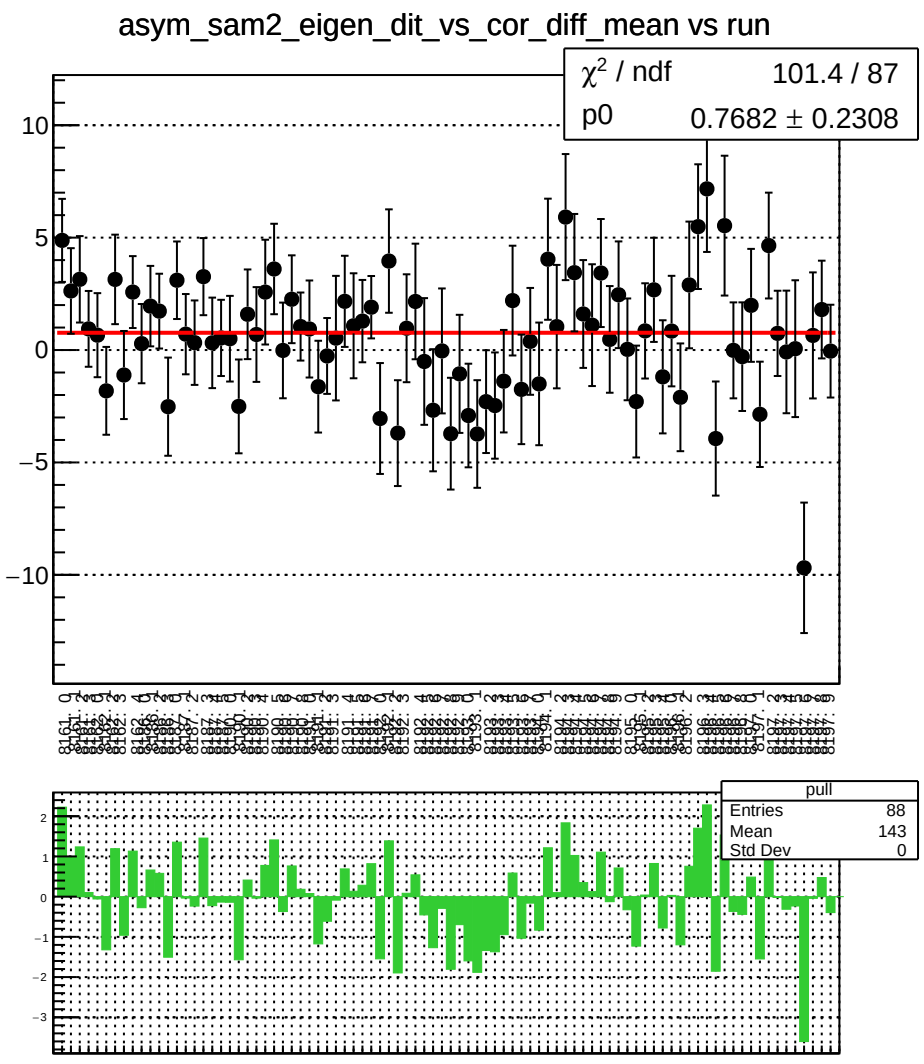

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.4 / 87
p0 0.7682 ± 0.2308
pull
Entries 88
Mean 143
Std Dev 0

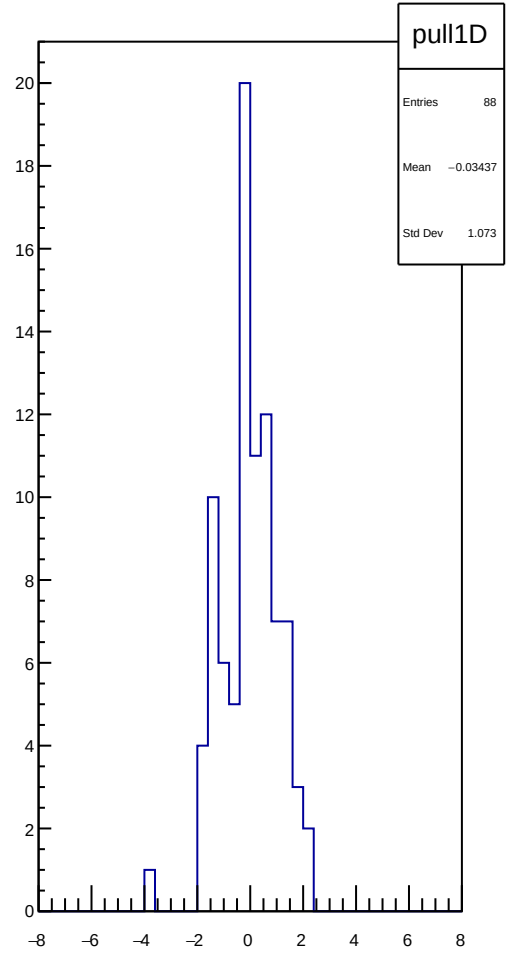

pull1D
Entries 88
Mean −0.03437
Std Dev 1.073

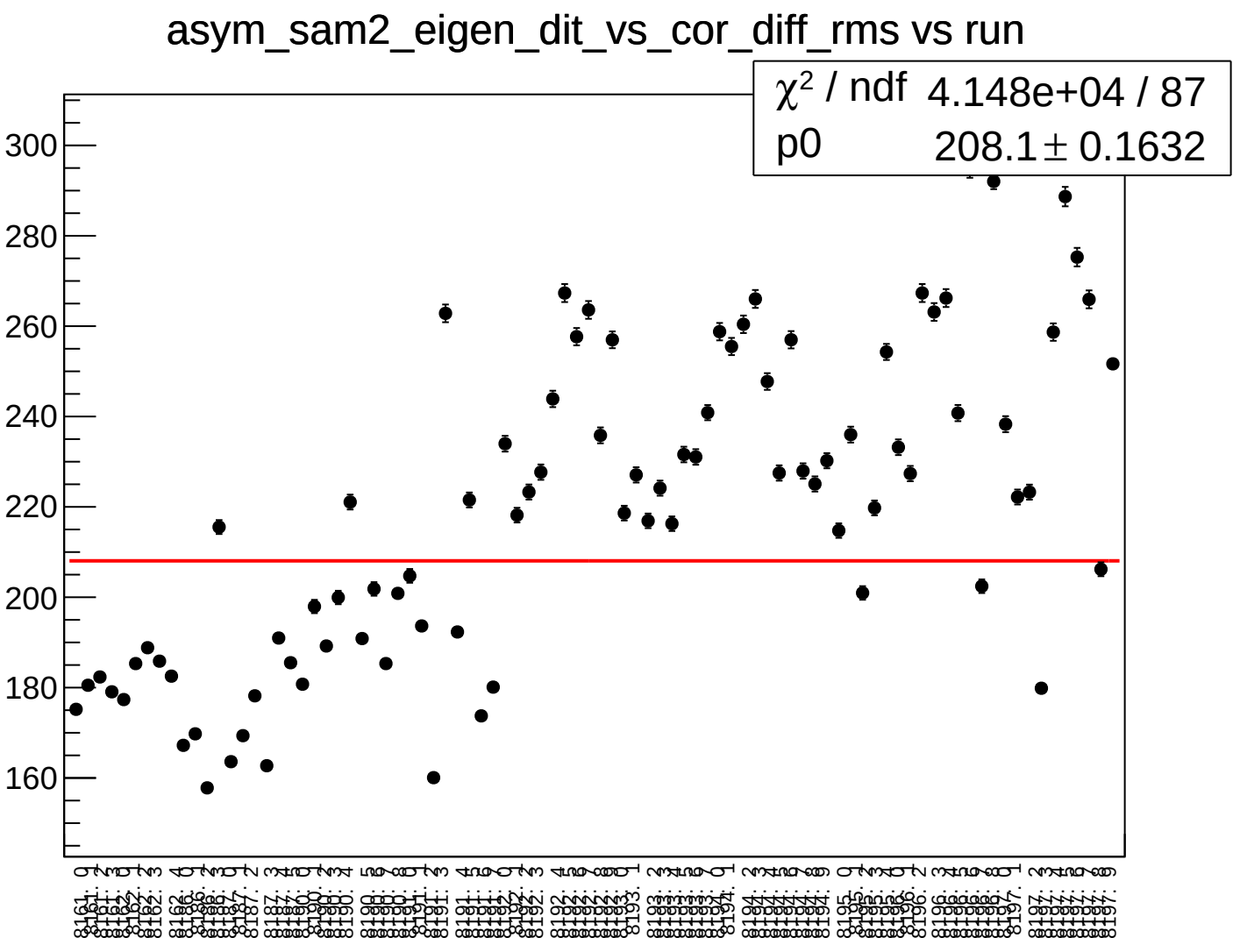

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.148e+04 / 87
p0 208.1 ± 0.1632
300
280
260
240
220
200
180
160

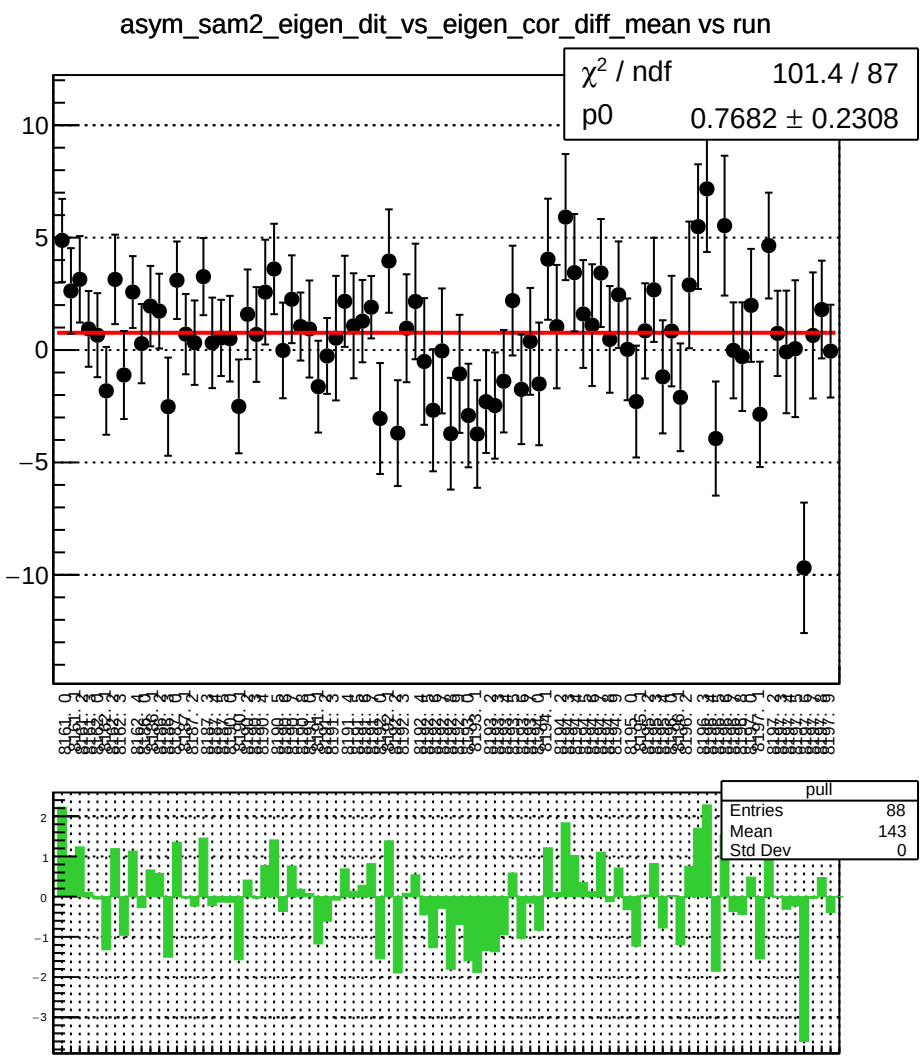

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 74.73 / 87
p0 7.865e−06 ± 1.324e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 7368
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.0006758
Std Dev 0.9215
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

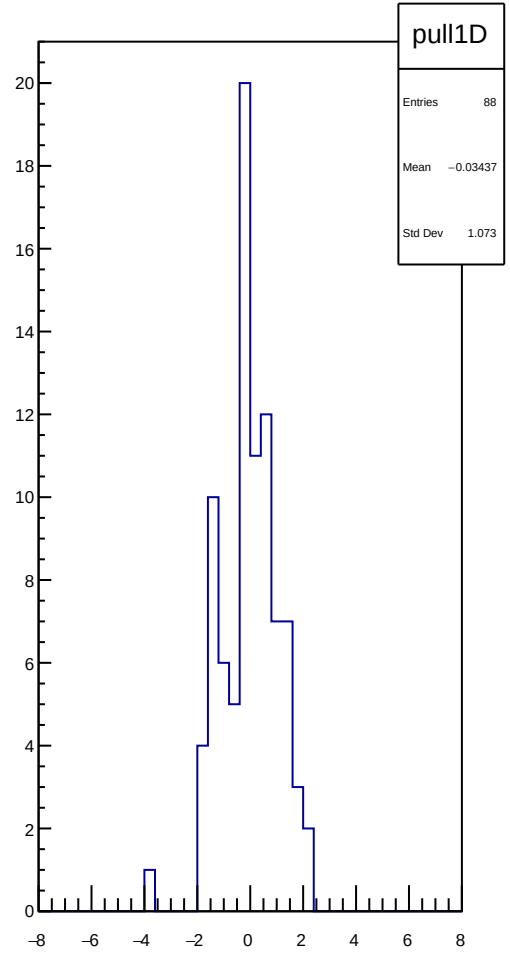

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.297e+05 / 87
p0 0.001161 ± 9.362e−07
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

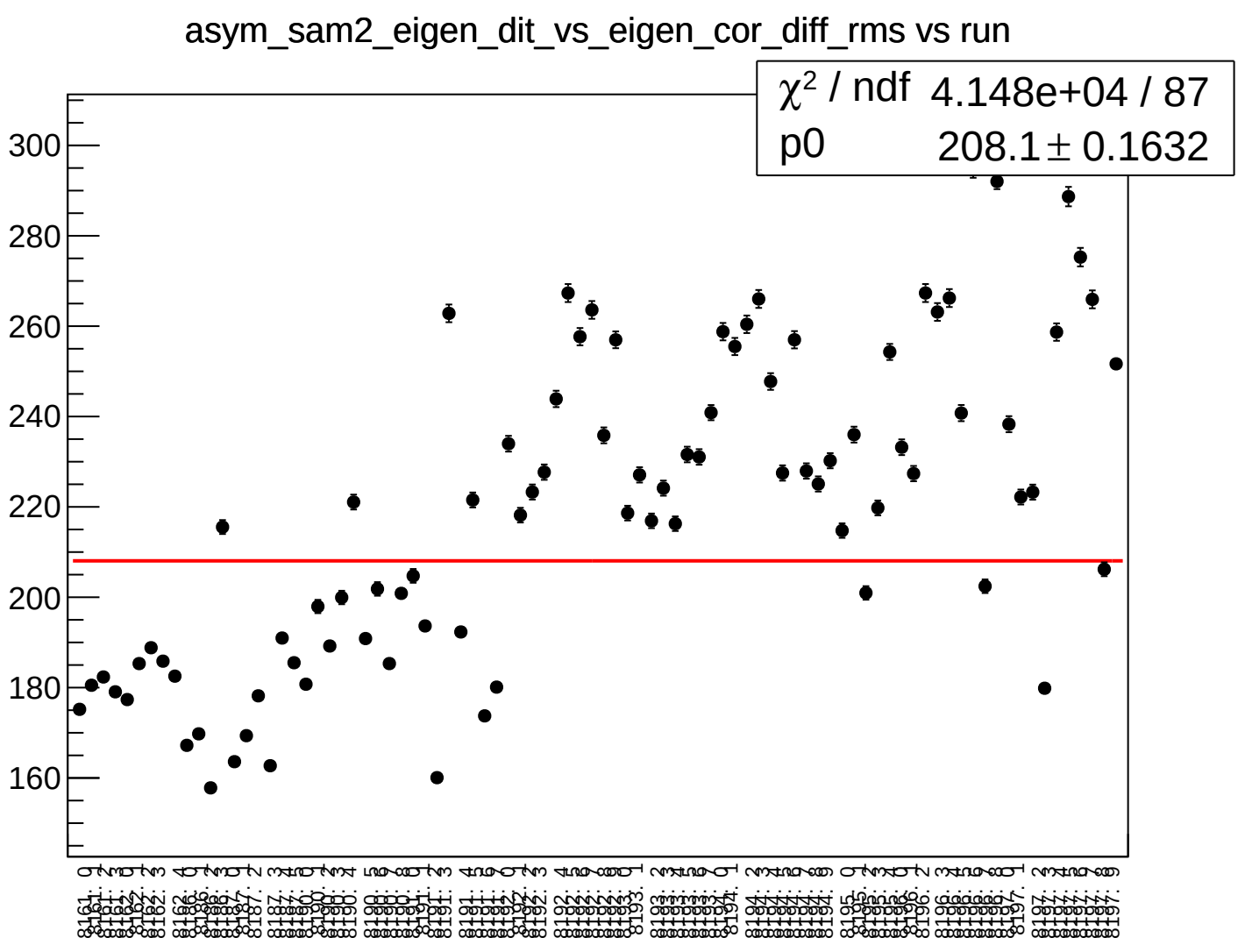

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.4 / 87
p0 0.7682 ± 0.2308
pull
Entries 88
Mean 143
Std Dev 0

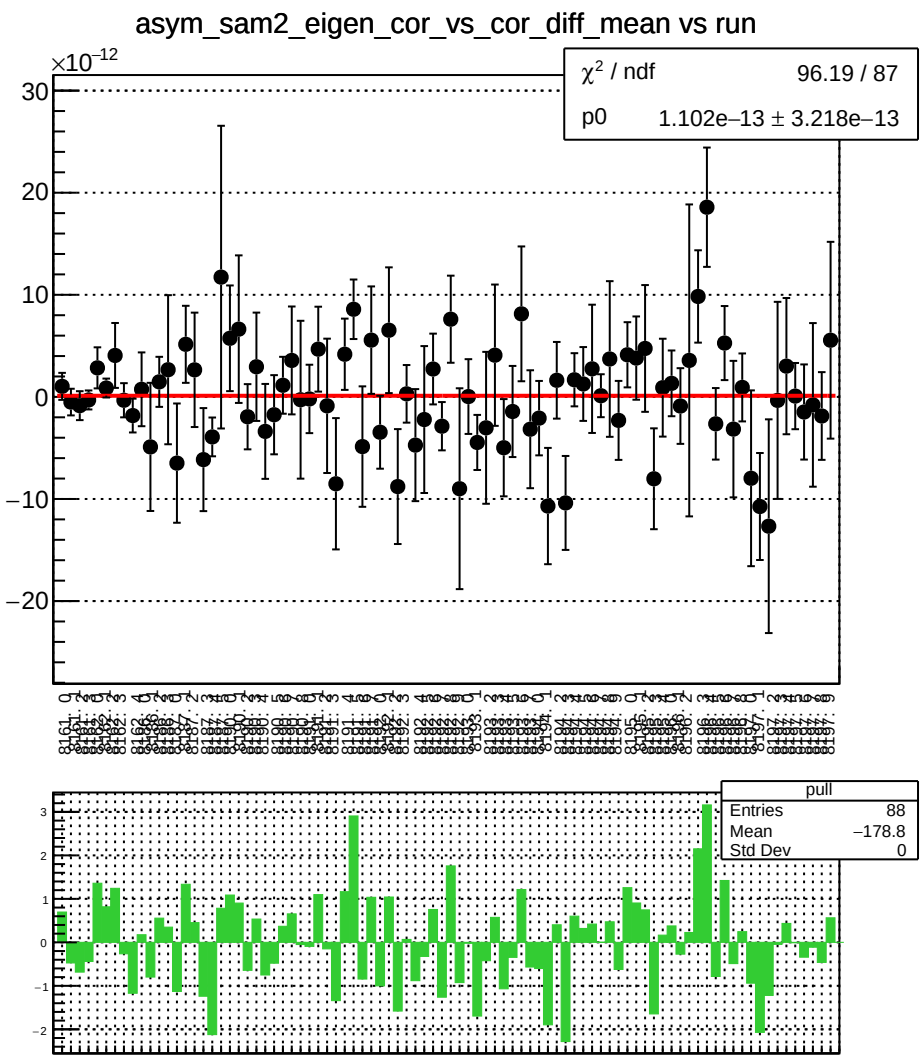

pull1D
Entries 88
Mean −0.03437
Std Dev 1.073

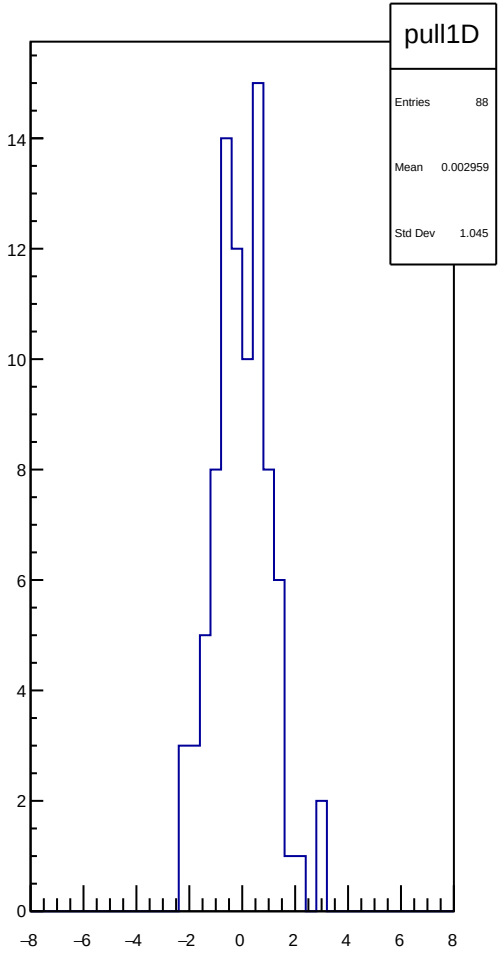

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.148e+04 / 87
p0 208.1 ± 0.1632
300
280
260
240
220
200
180
160

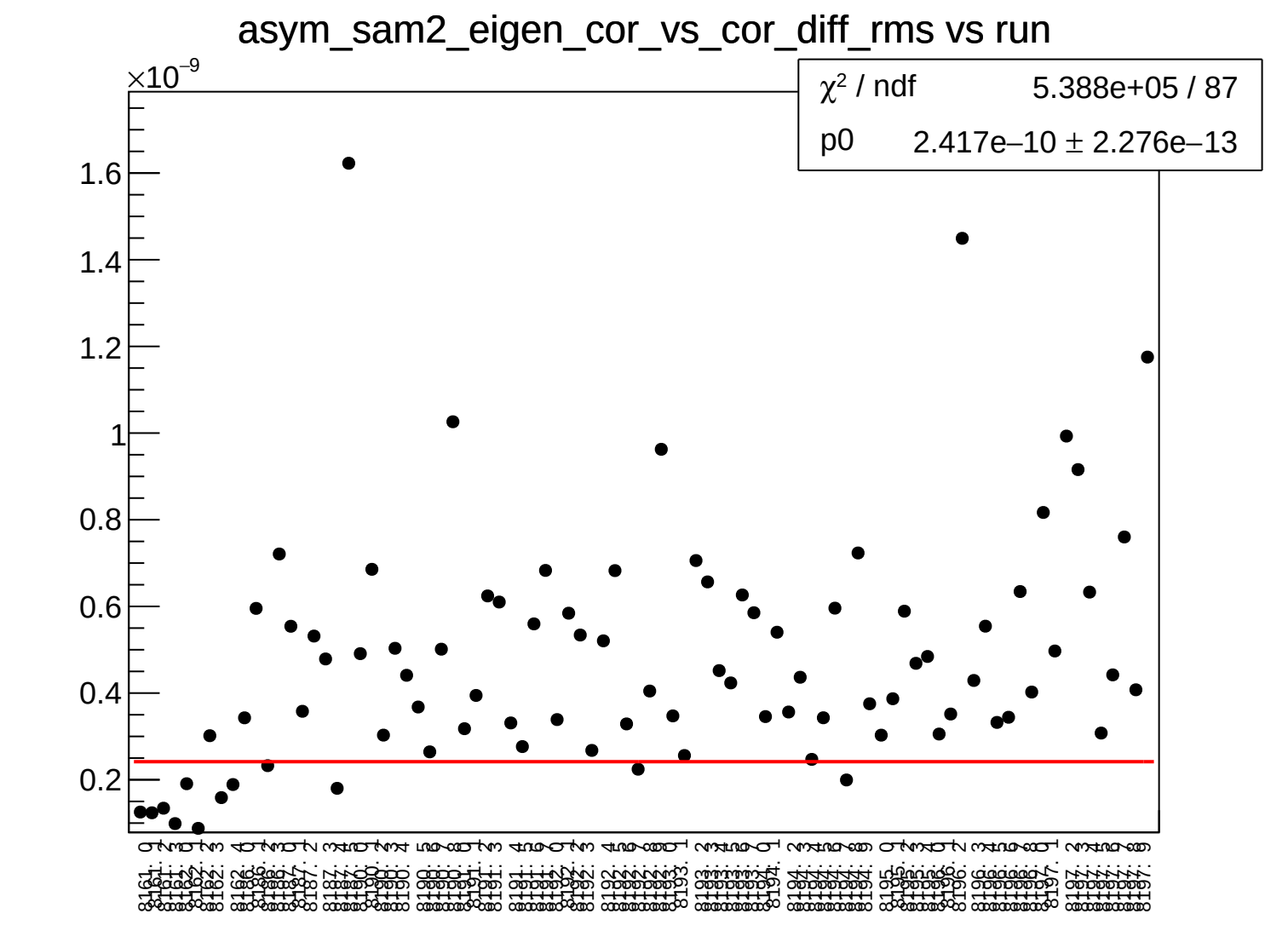

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.4 / 87
p0 0.7682 ± 0.2308
pull
Entries 88
Mean 143
Std Dev 0

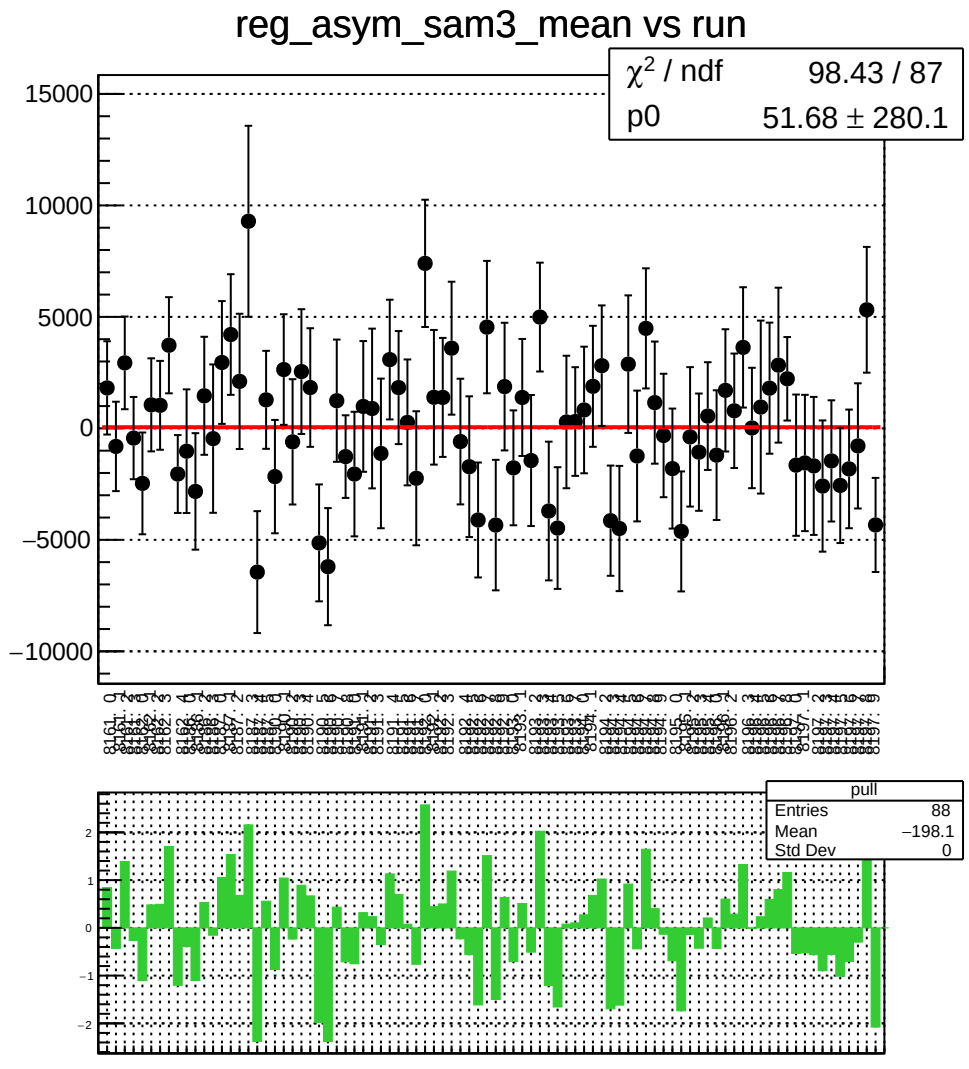

pull1D
Entries 88
Mean −0.03437
Std Dev 1.073

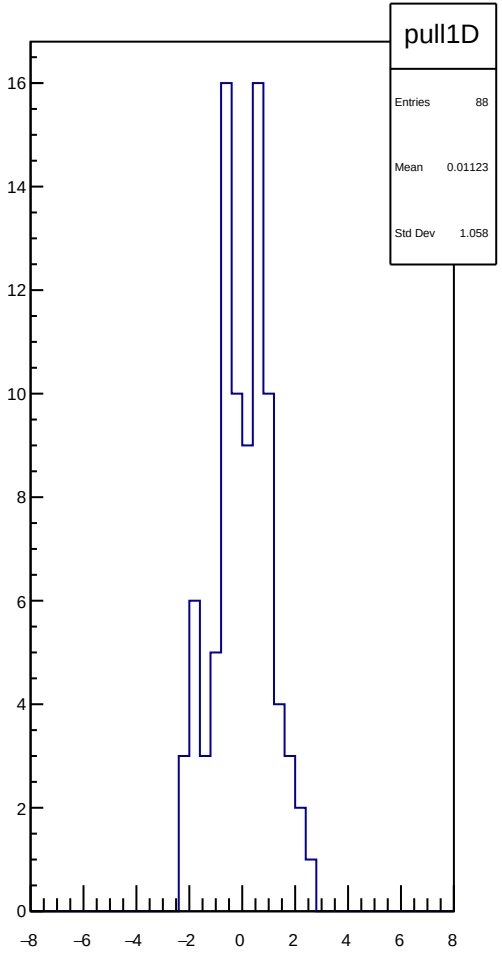

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.148e+04 / 87
p0 208.1 ± 0.1632
300
280
260
240
220
200
180
160

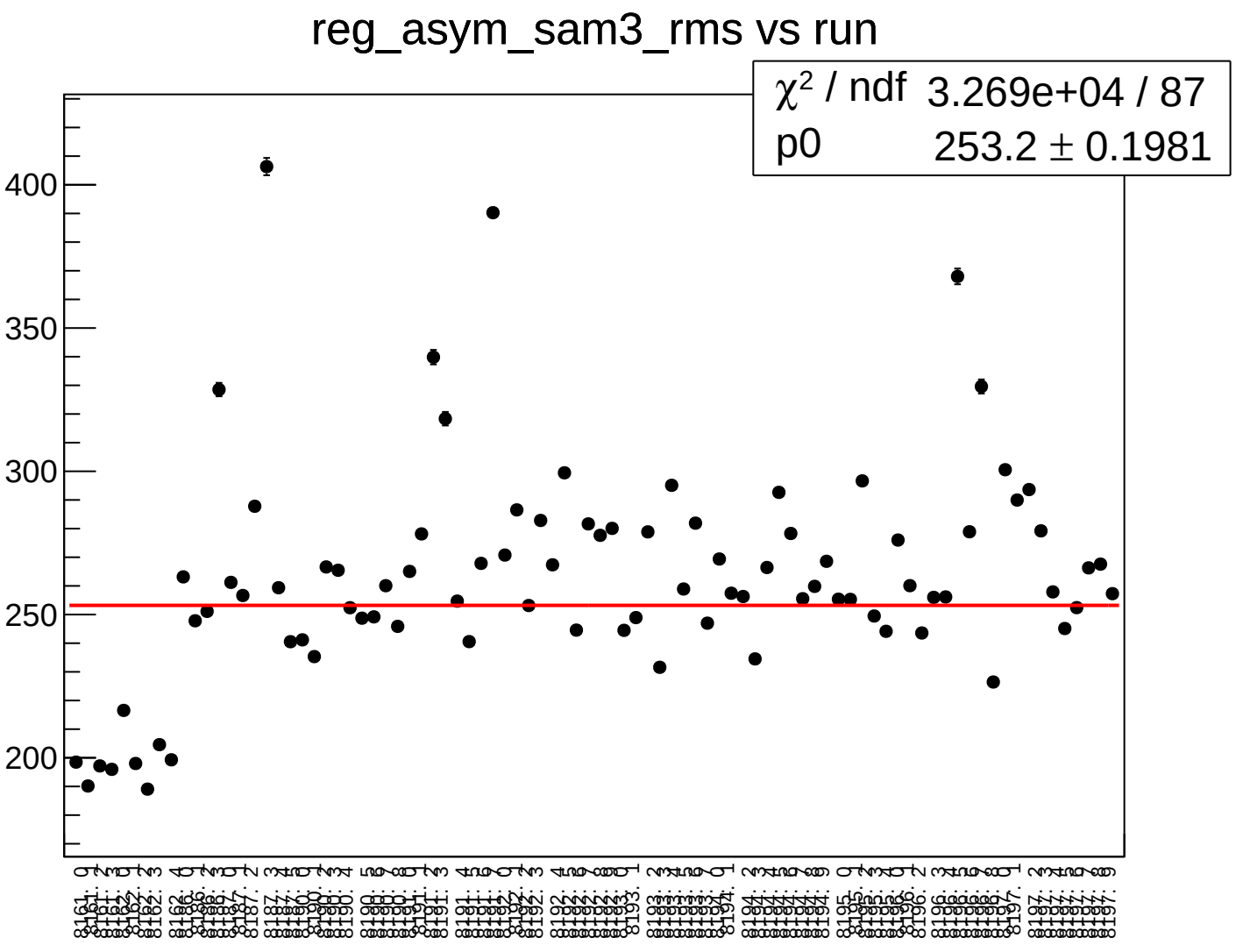

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.19 / 87
p0 1.102e−13 ± 3.218e−13
pull
Entries 88
Mean −178.8
Std Dev 0

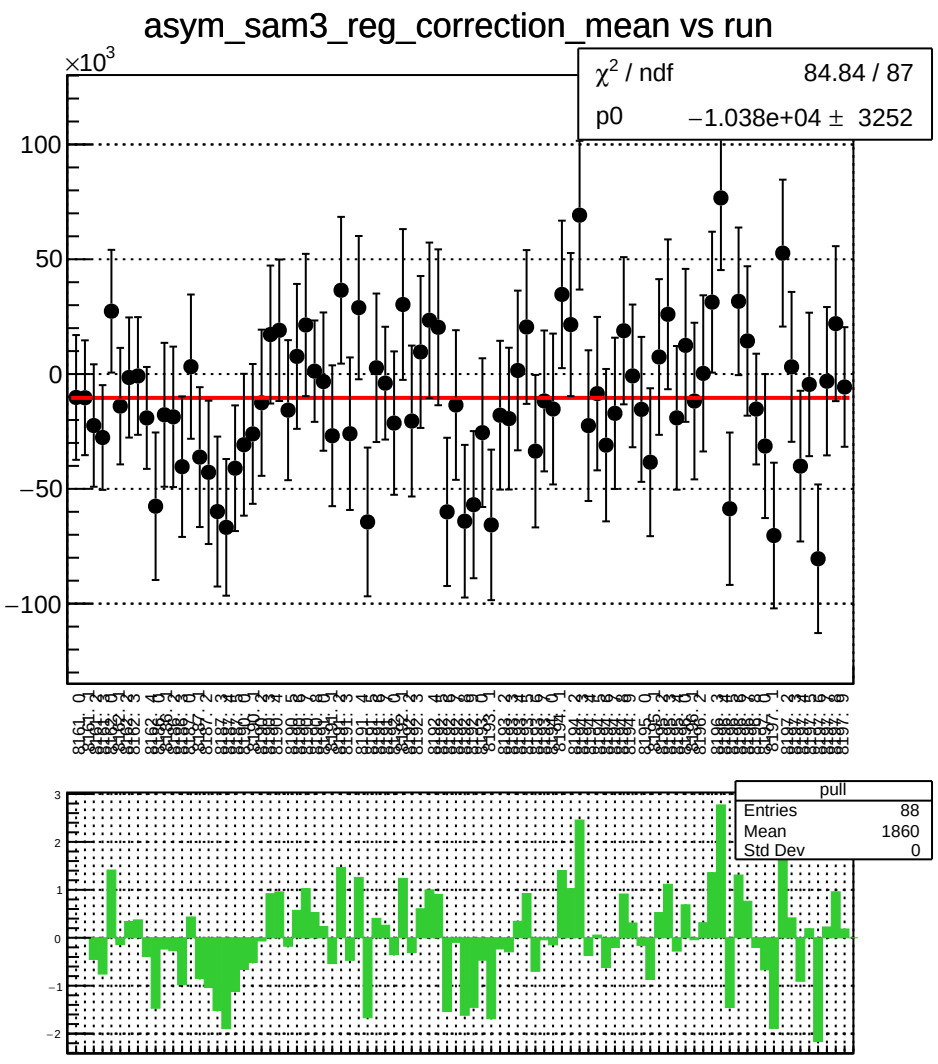

pull1D
Entries 88
Mean 0.002959
Std Dev 1.045

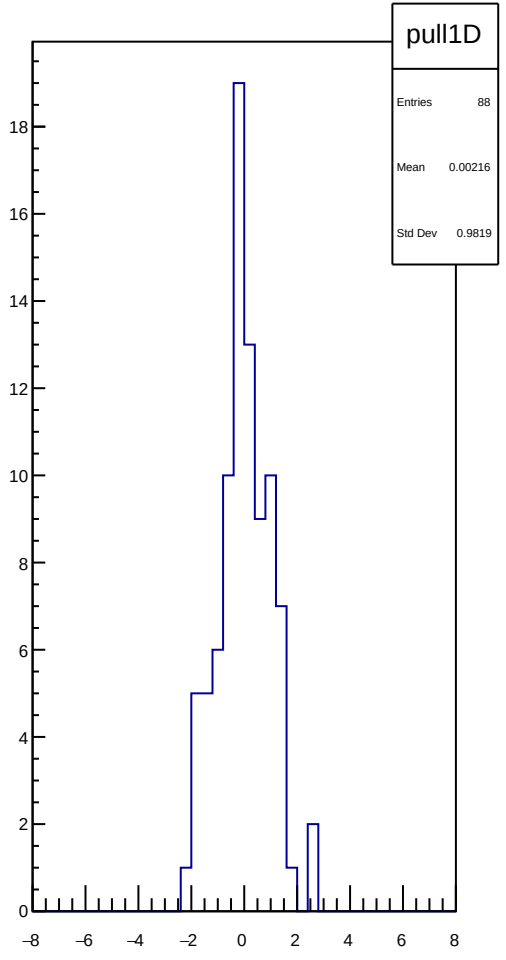

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.388e+05 / 87
p0 2.417e−10 ± 2.276e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

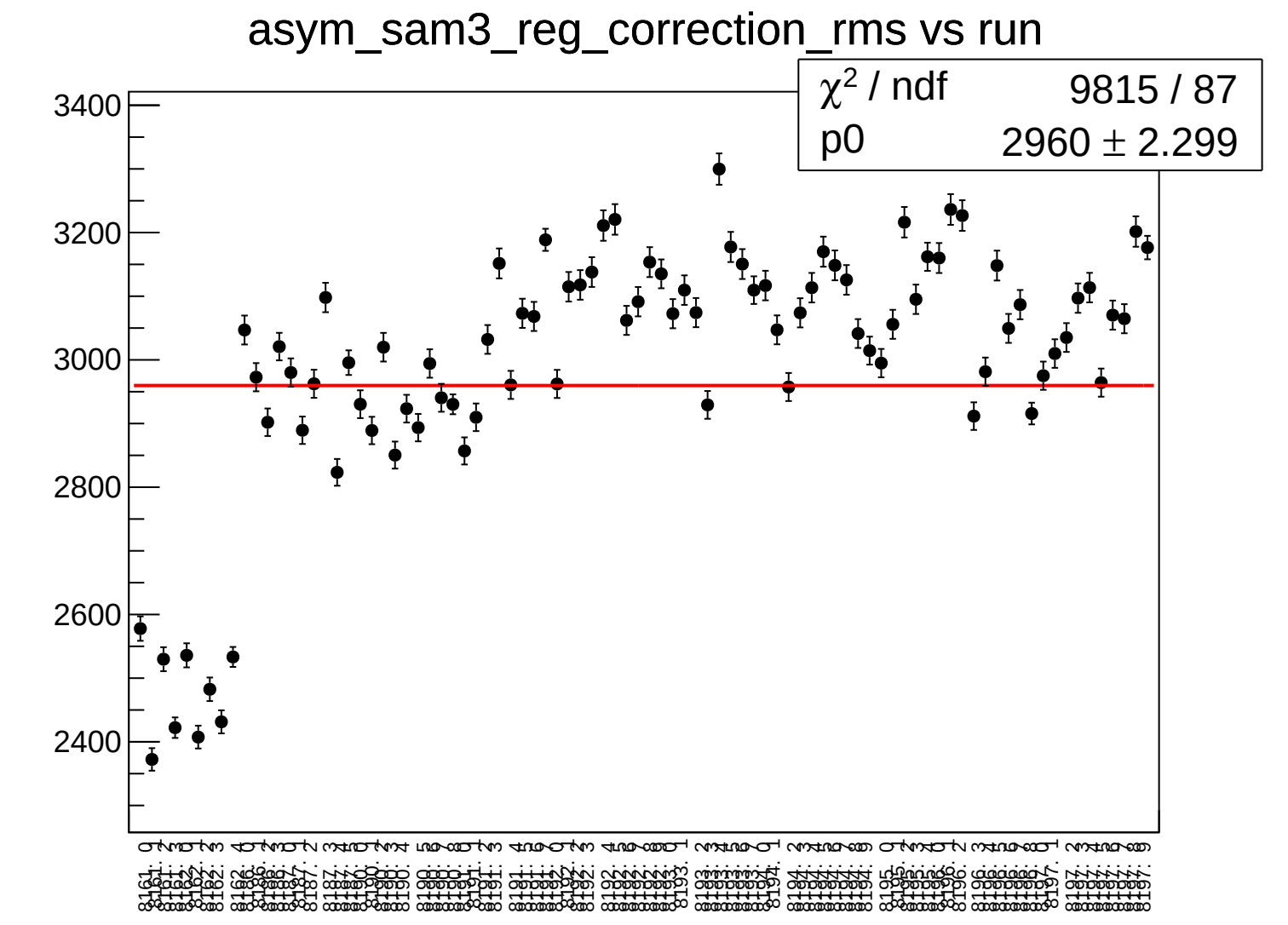

reg_asym_sam3_mean vs run
χ² / ndf 98.43 / 87
p0 51.68 ± 280.1
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −198.1
Std Dev 0
2
1
0
−1
−2

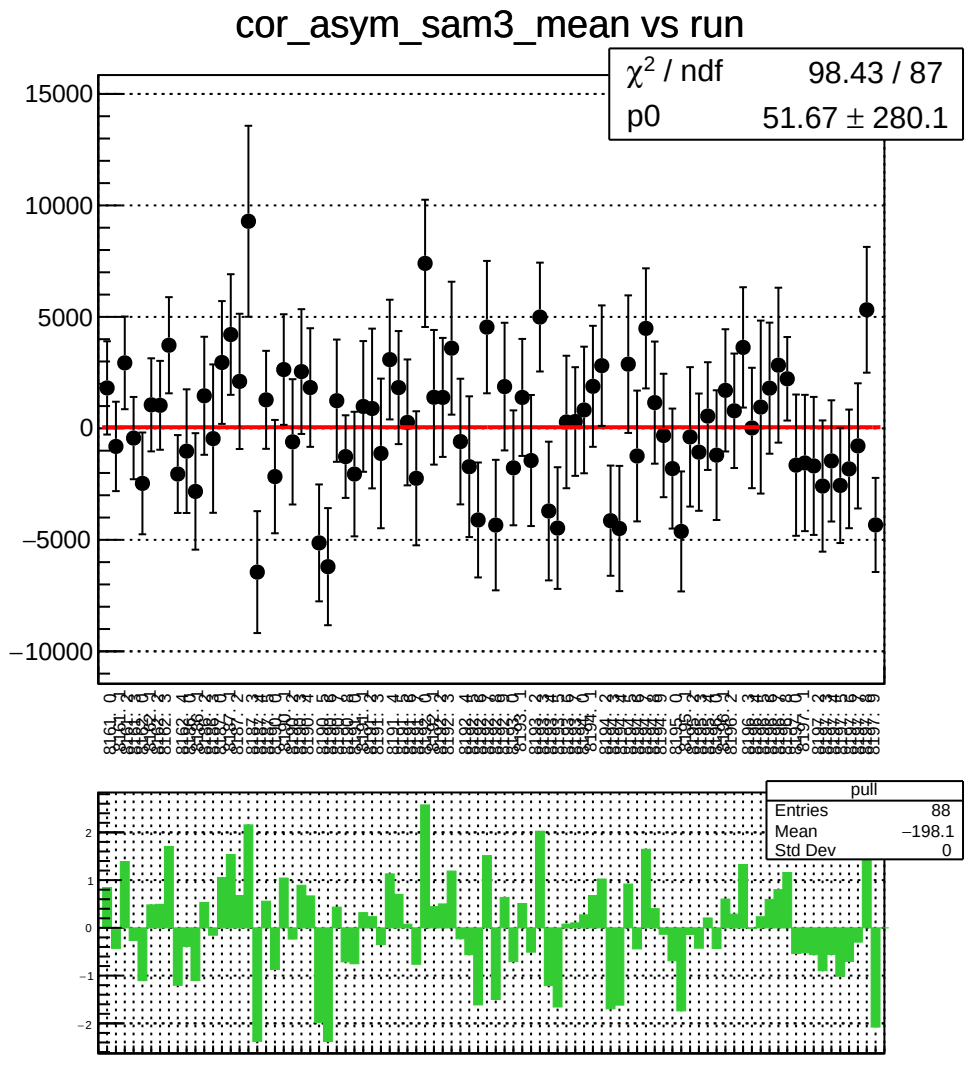

pull1D
Entries 88
Mean 0.01123
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

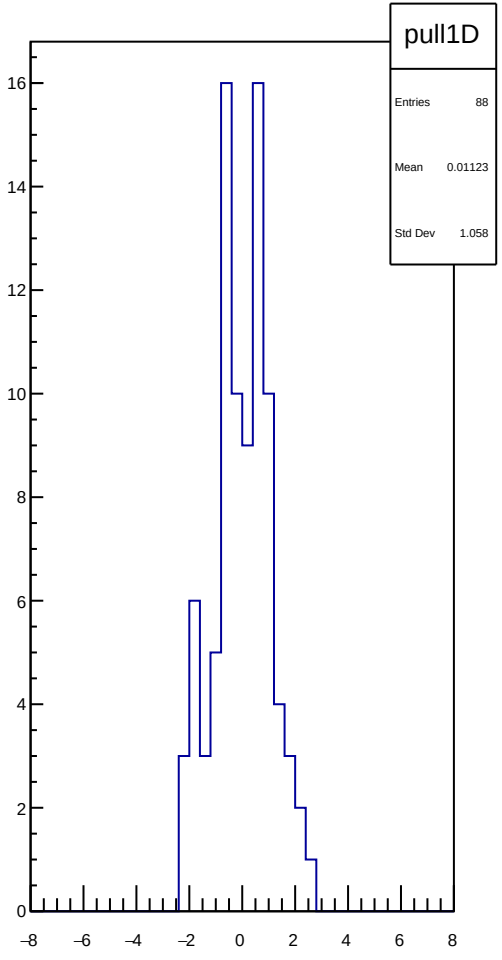

reg_asym_sam3_rms vs run
χ² / ndf 3.269e+04 / 87
p0 253.2 ± 0.1981
400
350
300
250
200

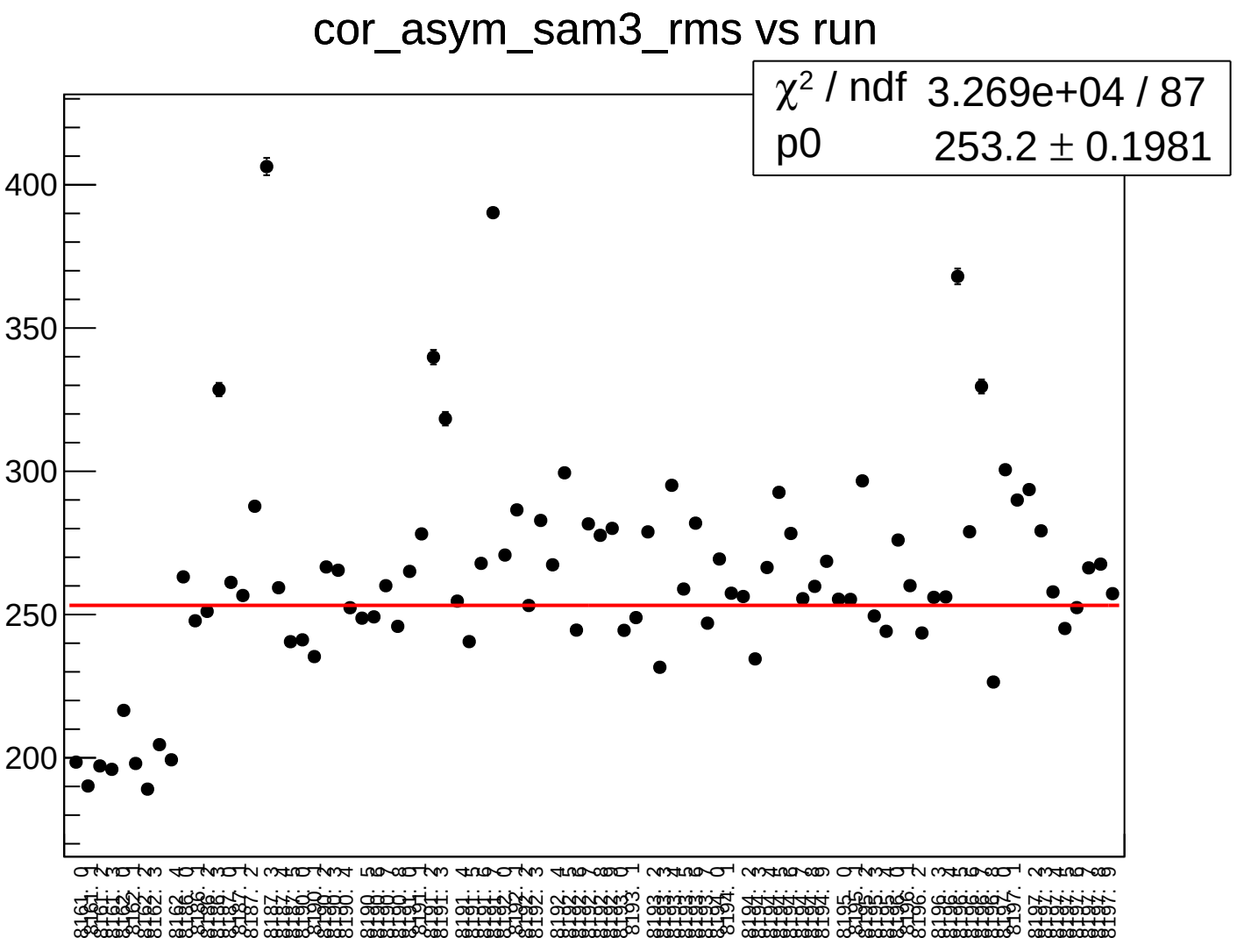

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 84.84 / 87
p0 −1.038e+04 ± 3252
100
50
0
−50
−100
pull
Entries 88
Mean 1860
Std Dev 0
3
2
1
0
−1
−2

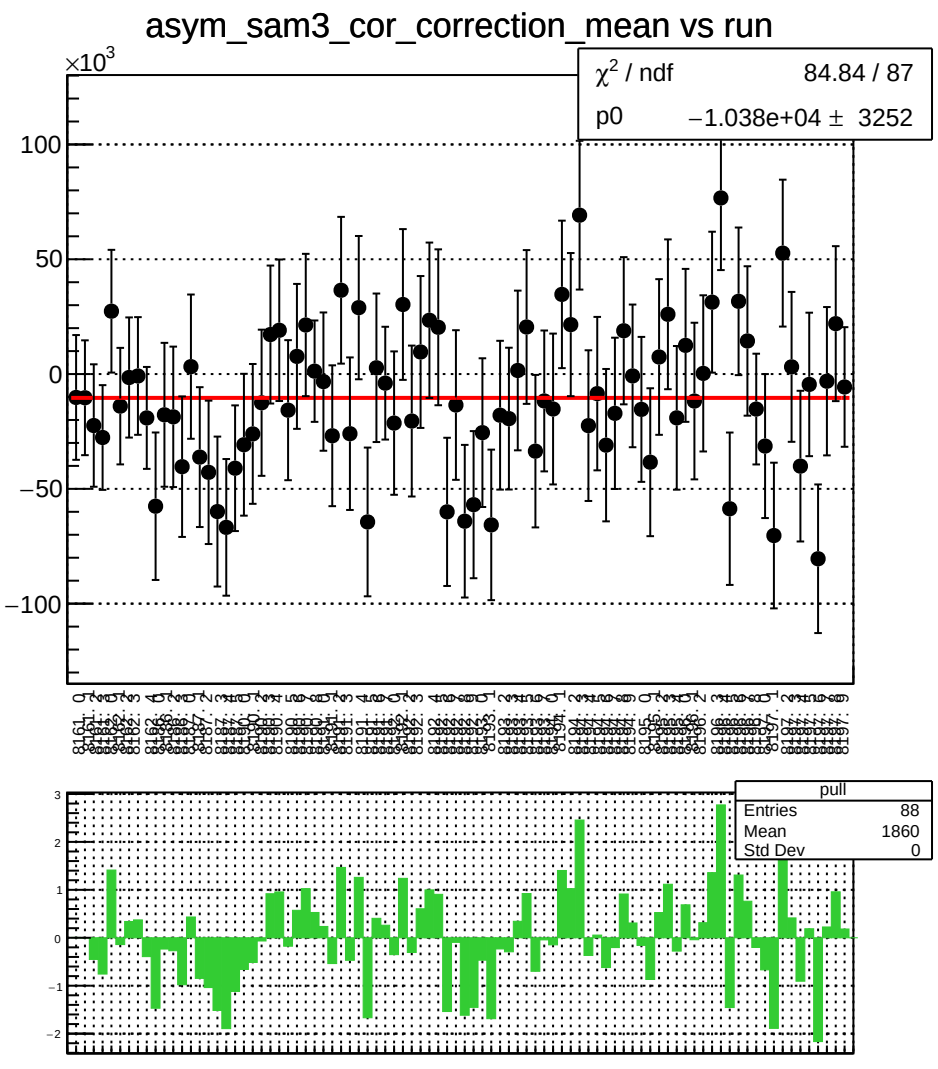

pull1D
Entries 88
Mean 0.00216
Std Dev 0.9819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

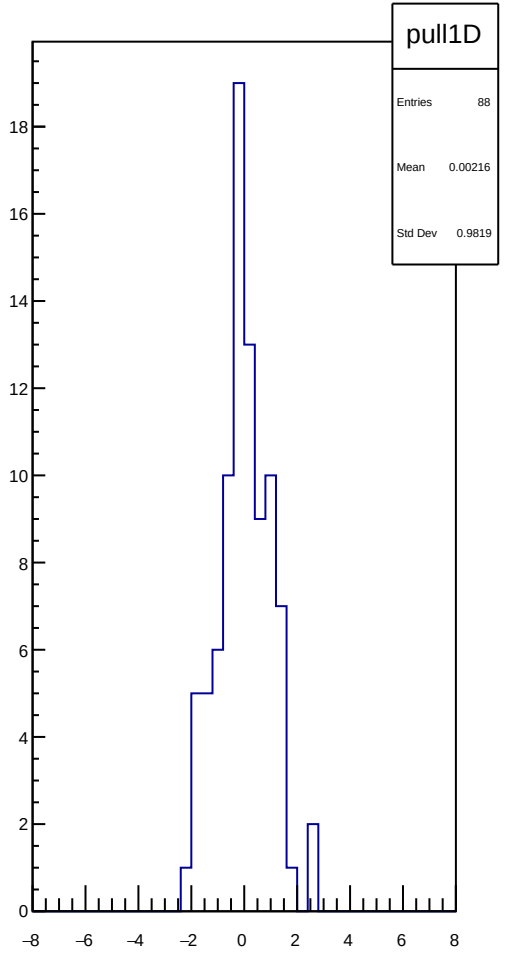

asym_sam3_reg_correction_rms vs run
χ² / ndf 9815 / 87
p0 2960 ± 2.299
3400
3200
3000
2800
2600
2400

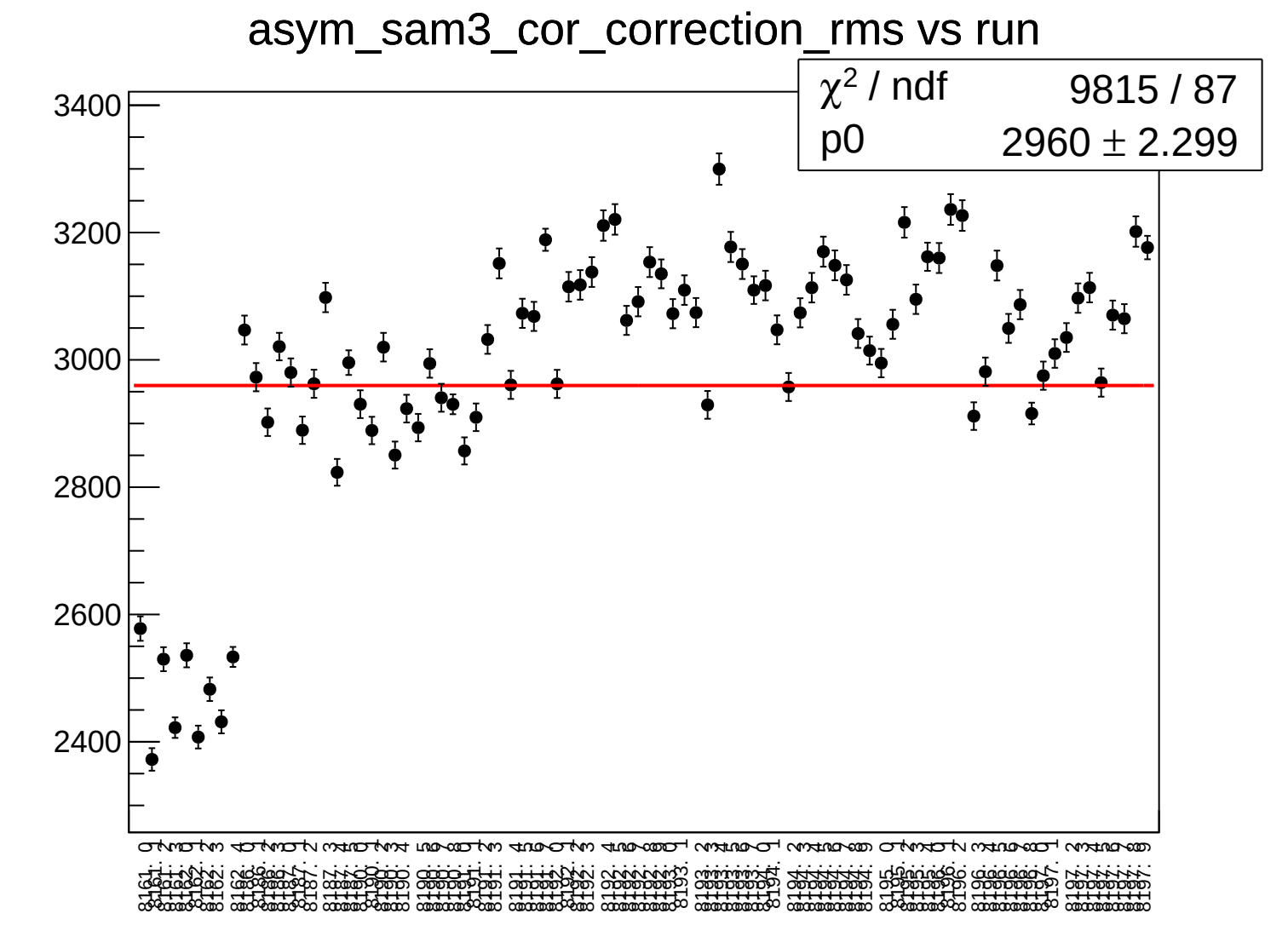

cor_asym_sam3_mean vs run
χ² / ndf 98.43 / 87
p0 51.67 ± 280.1
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −198.1
Std Dev 0
2
1
0
−1
−2

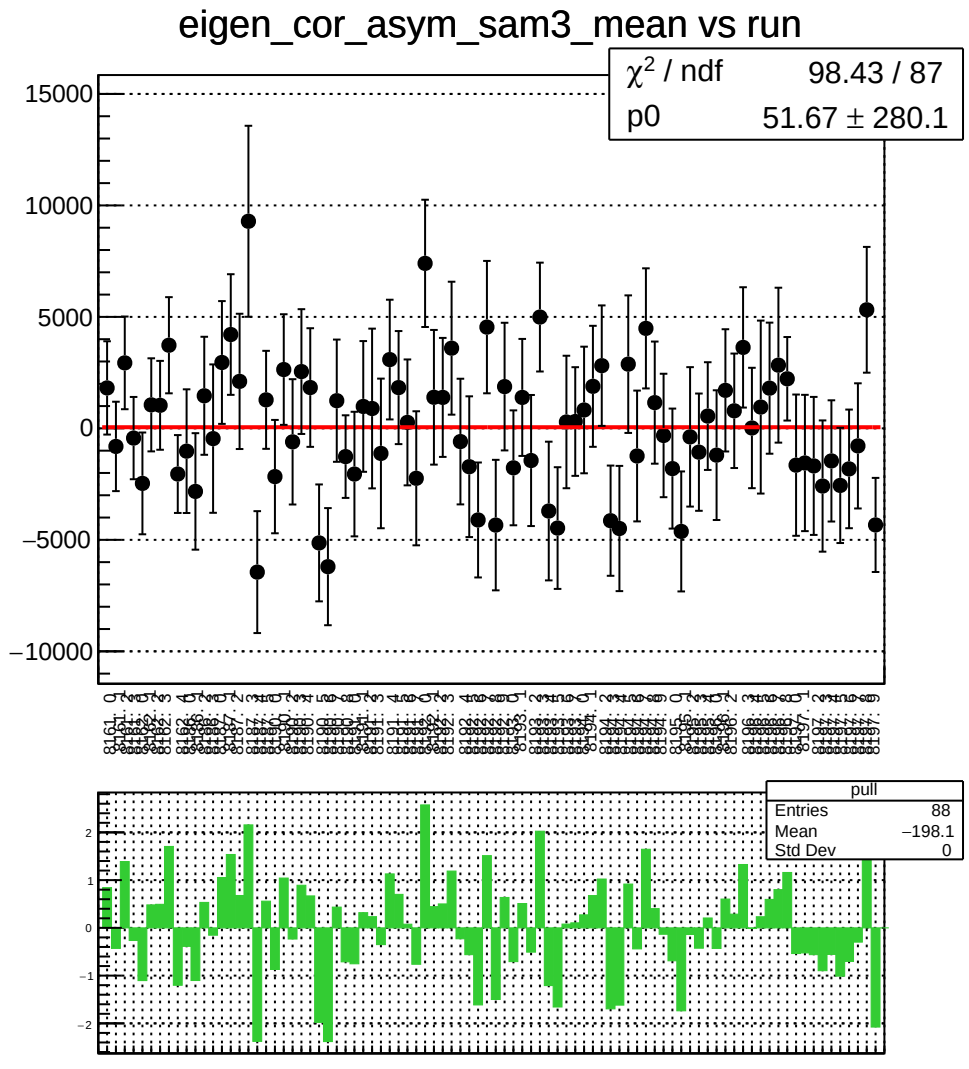

pull1D
Entries 88
Mean 0.01123
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

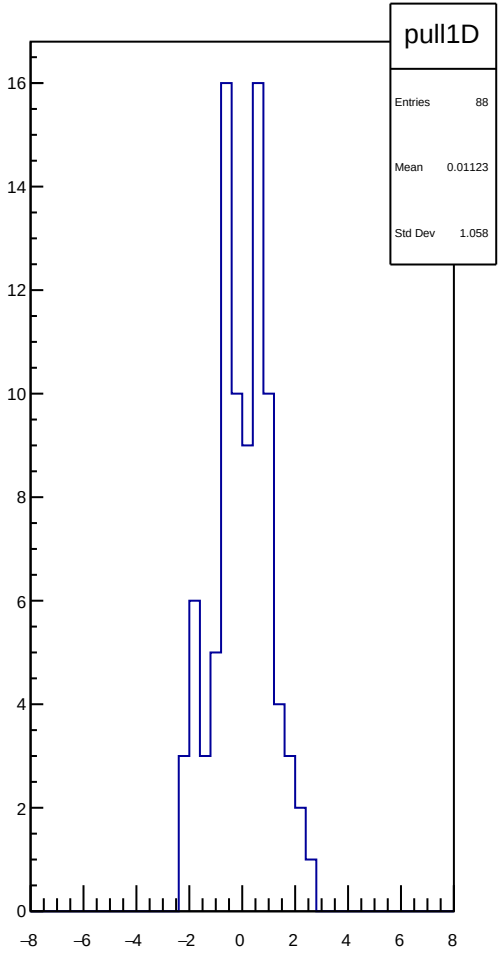

cor_asym_sam3_rms vs run
χ² / ndf 3.269e+04 / 87
p0 253.2 ± 0.1981
400
350
300
250
200

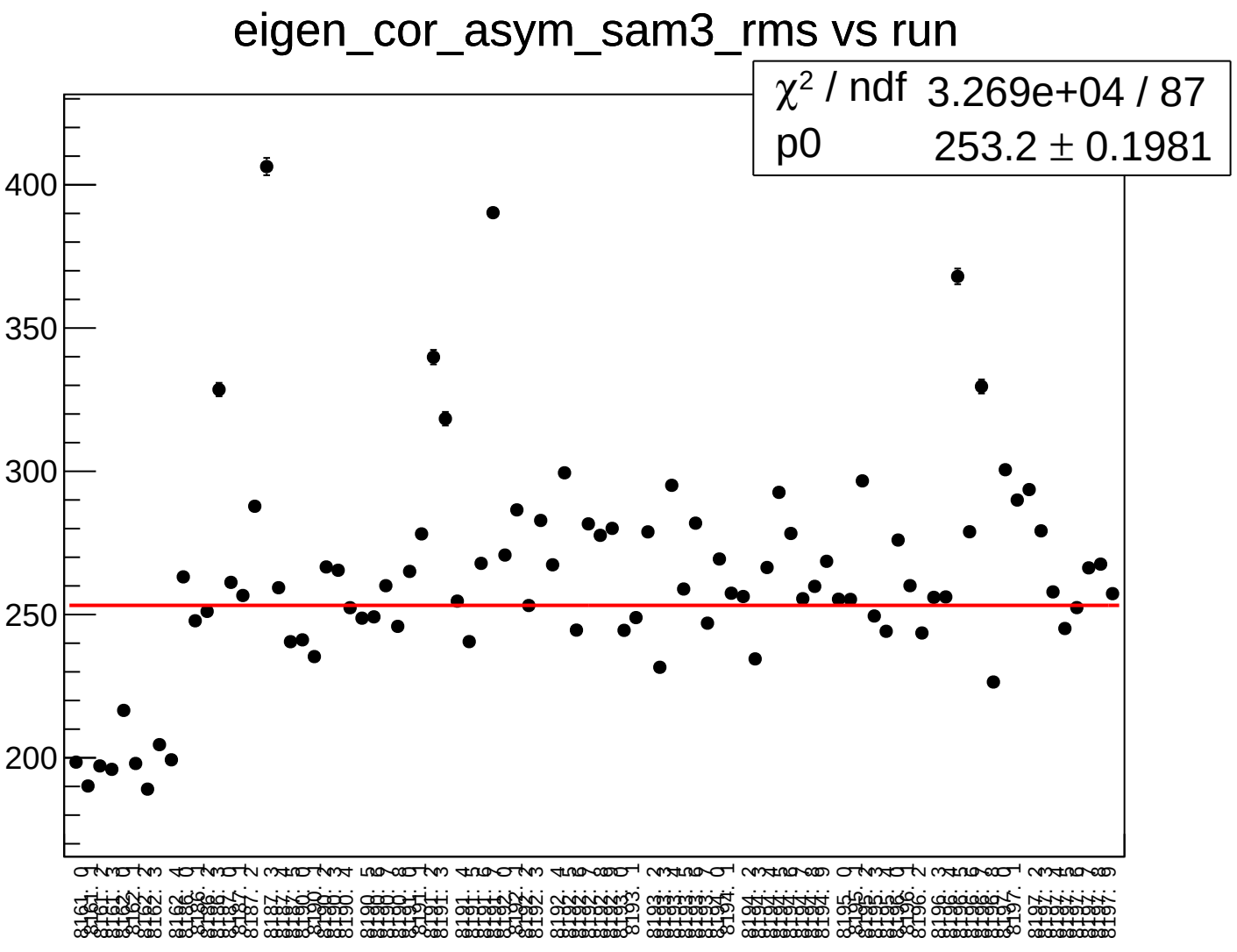

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 84.84 / 87
p0 −1.038e+04 ± 3252
100
50
0
−50
−100
pull
Entries 88
Mean 1860
Std Dev 0
3
2
1
0
−1
−2

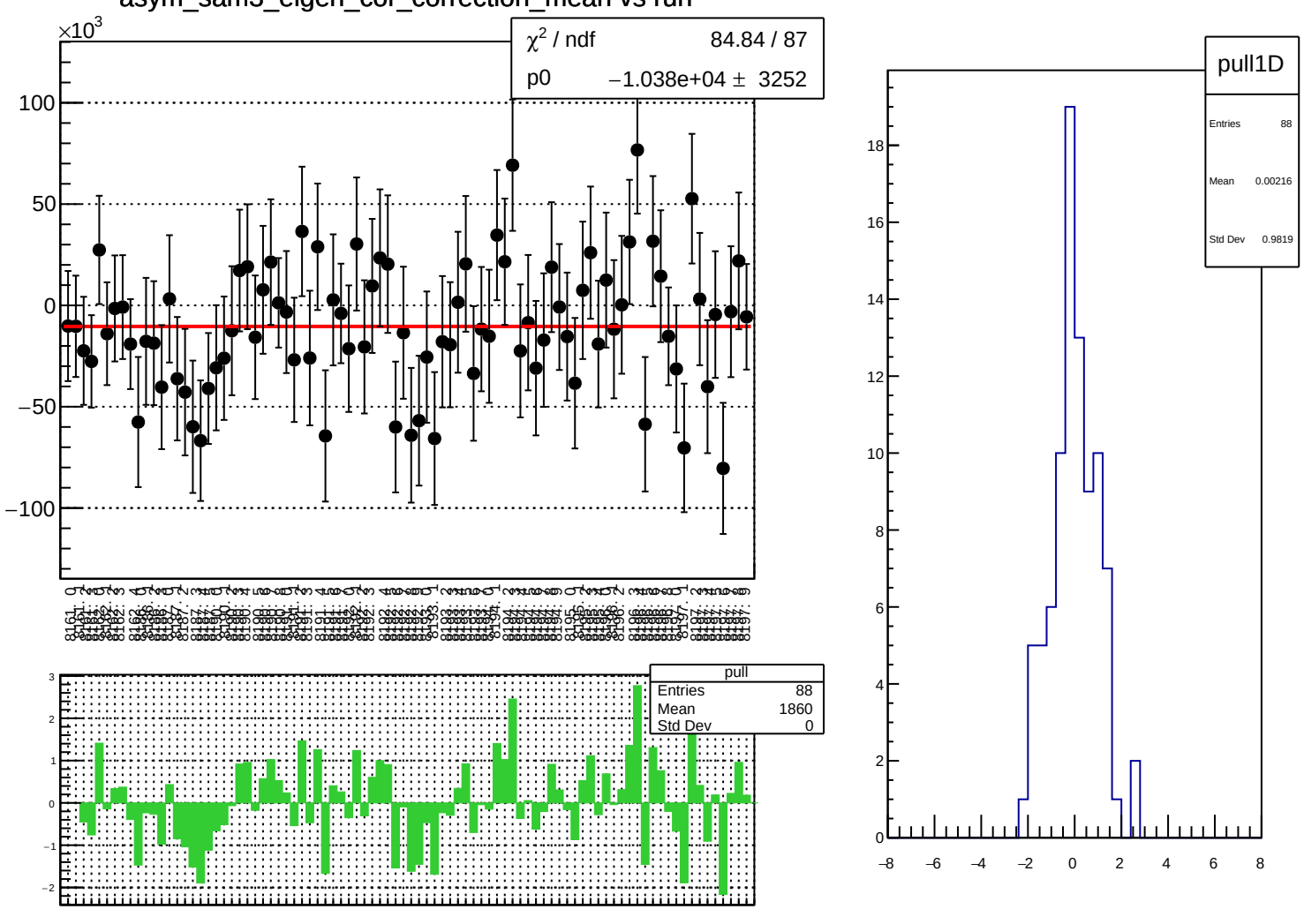

pull1D
Entries 88
Mean 0.00216
Std Dev 0.9819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

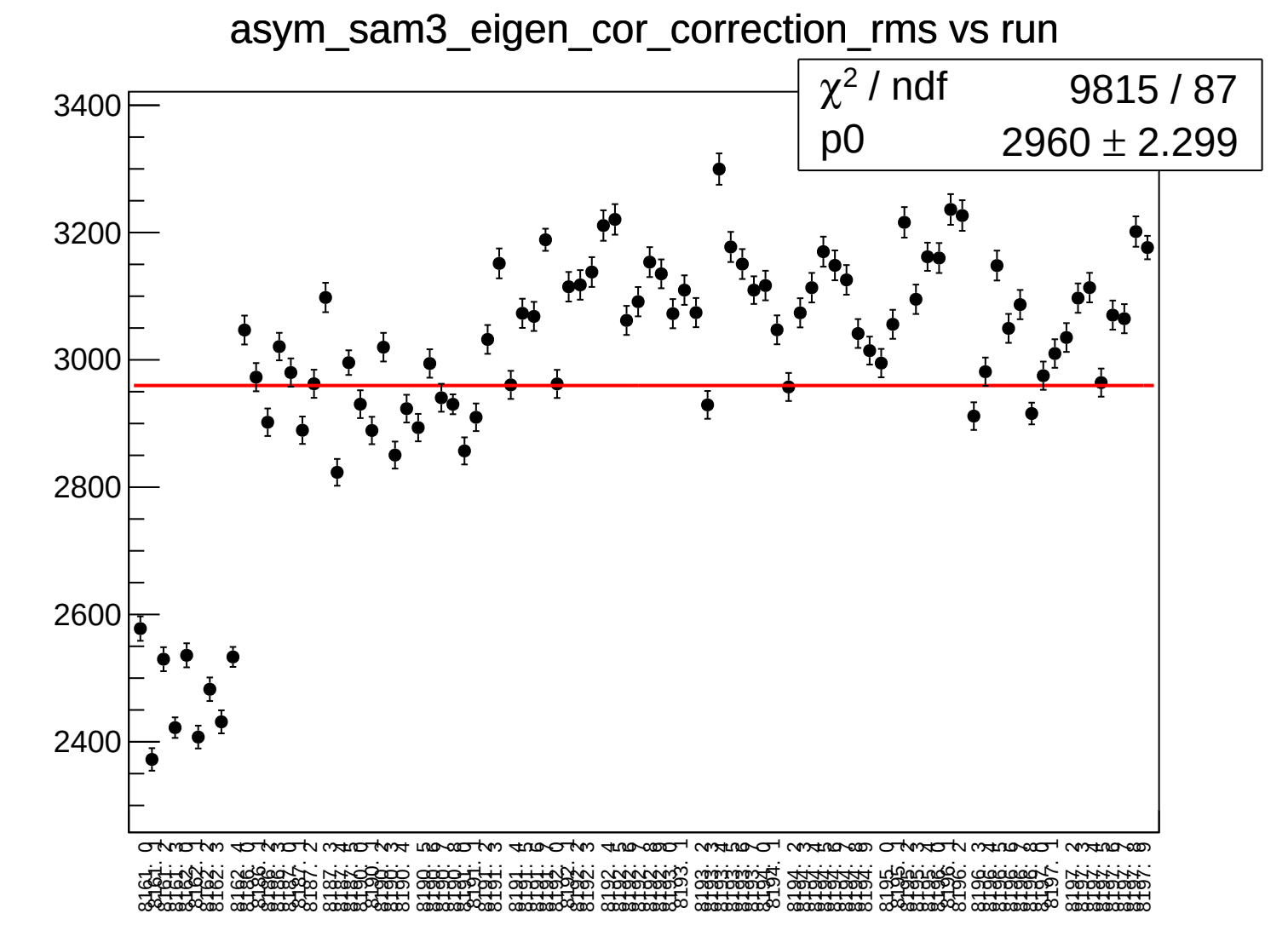

asym_sam3_cor_correction_rms vs run
χ² / ndf 9815 / 87
p0 2960 ± 2.299
3400
3200
3000
2800
2600
2400

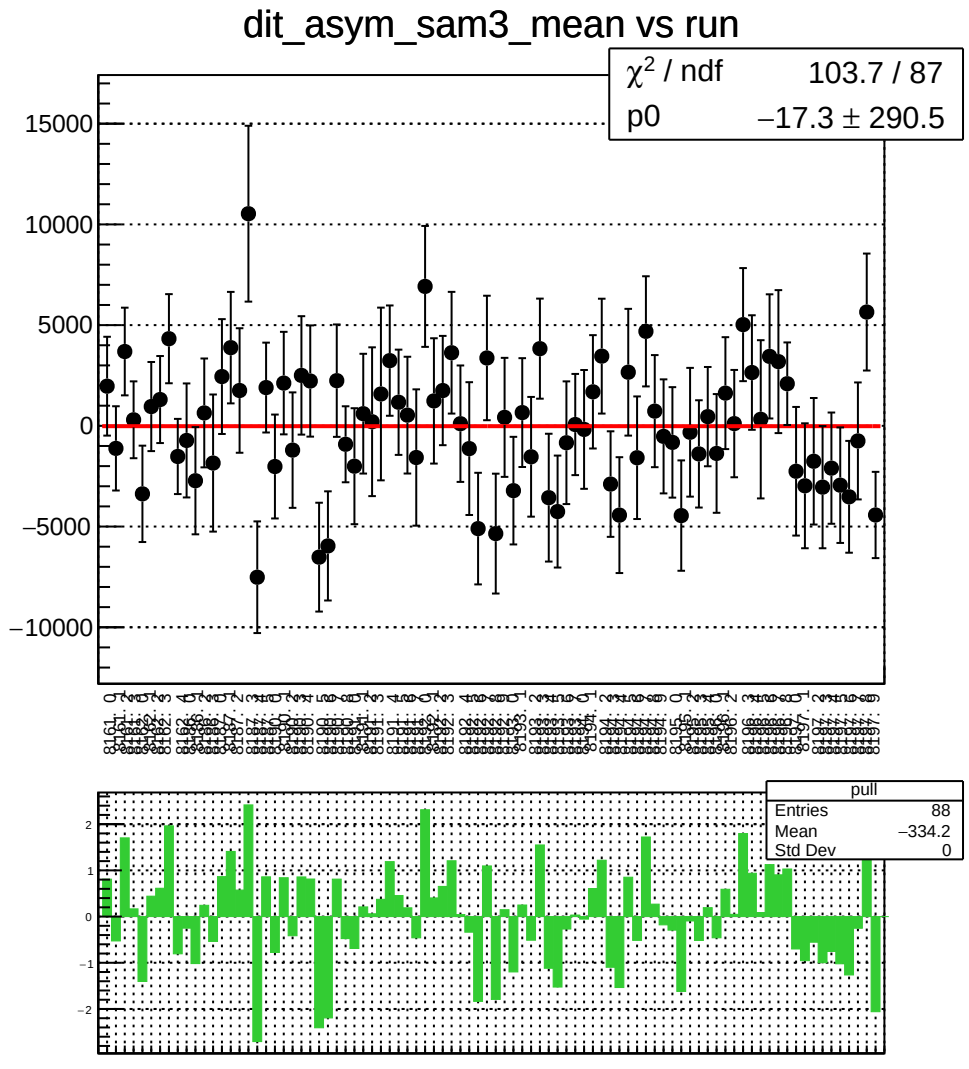

eigen_cor_asym_sam3_mean vs run
χ² / ndf 98.43 / 87
p0 51.67 ± 280.1
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −198.1
Std Dev 0
2
1
0
−1
−2

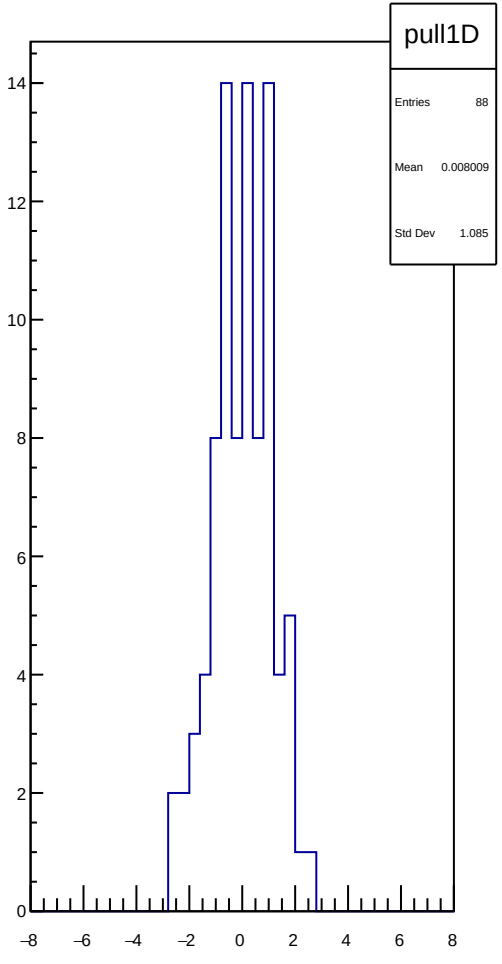

pull1D
Entries 88
Mean 0.01123
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

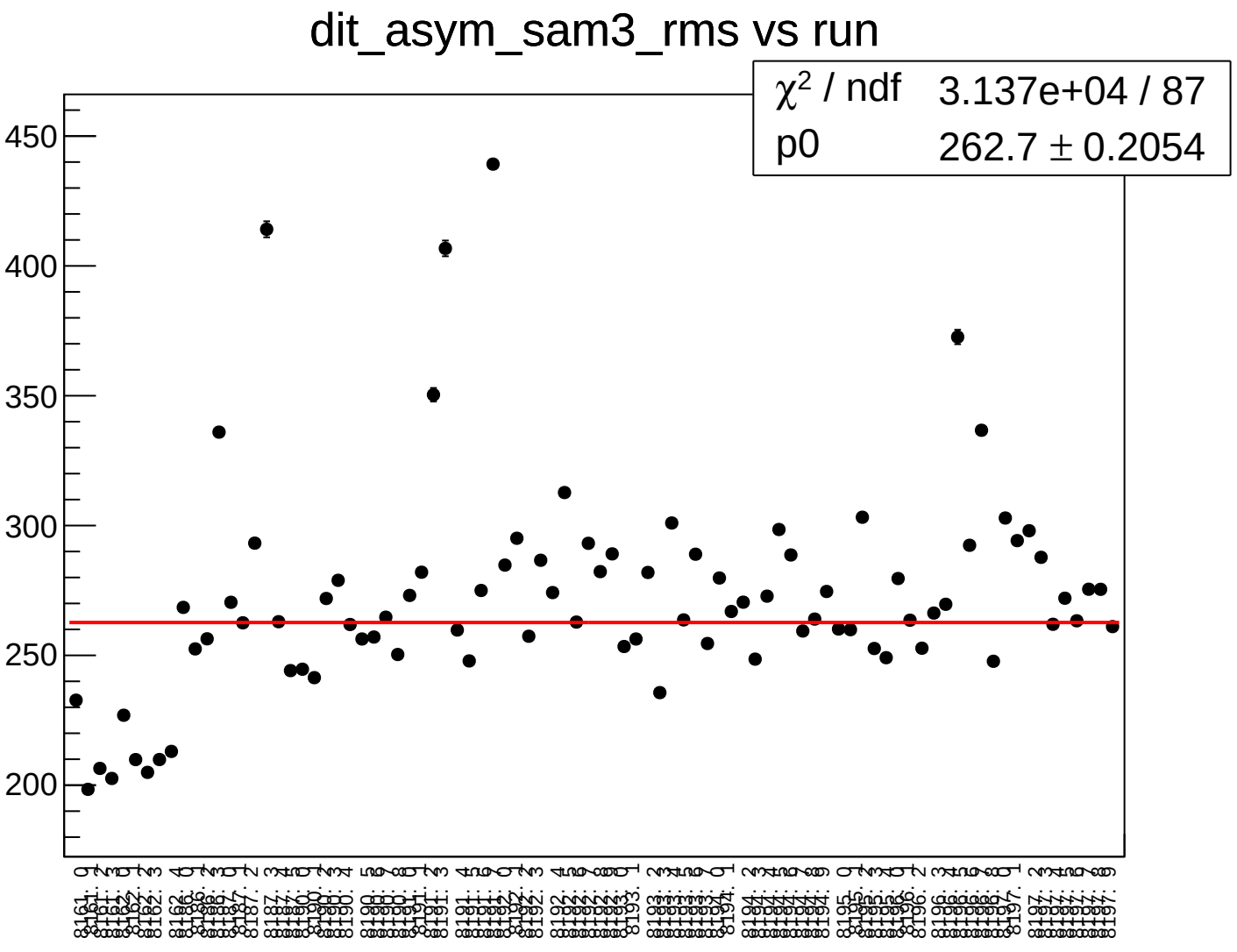

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.269e+04 / 87
p0 253.2 ± 0.1981
400
350
300
250
200

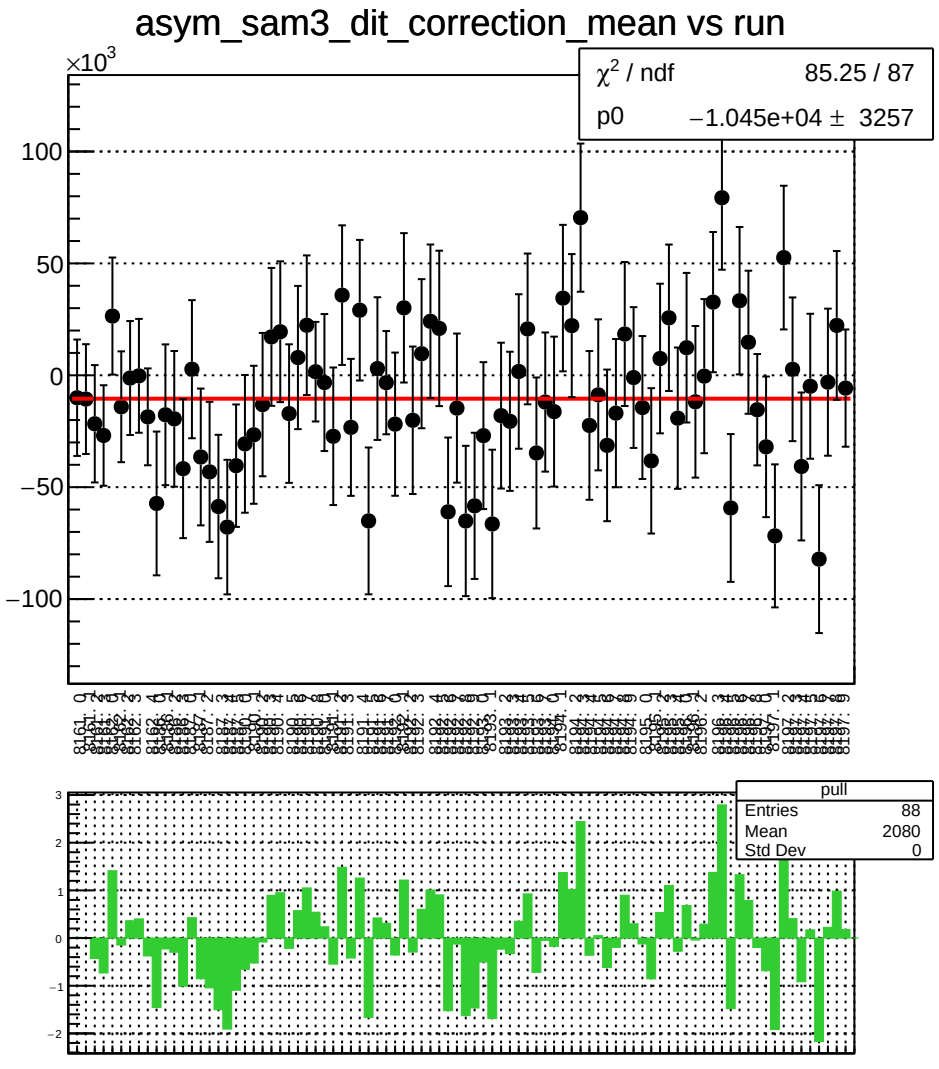

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.84 / 87
p0 −1.038e+04 ± 3252
100
50
0
−50
−100
pull
Entries 88
Mean 1860
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.00216
Std Dev 0.9819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

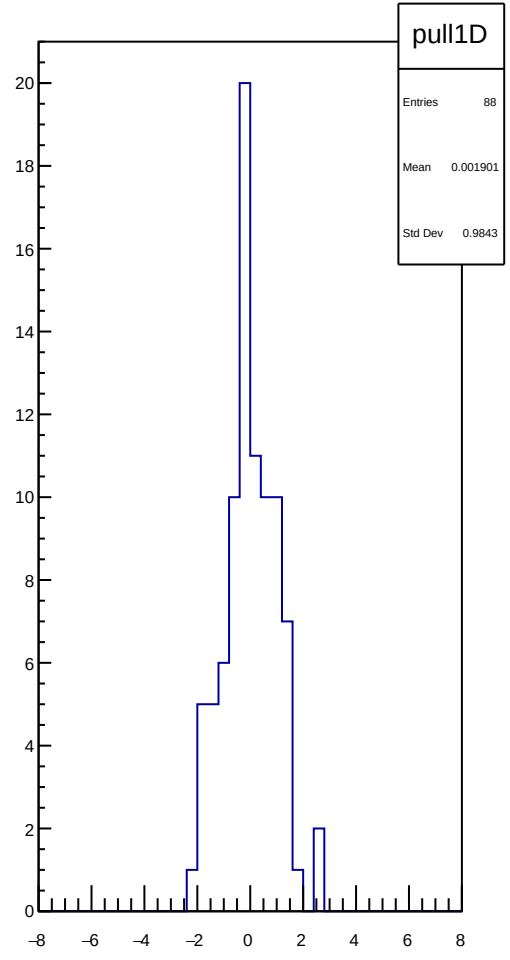

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 9815 / 87
p0 2960 ± 2.299
3400
3200
3000
2800
2600
2400

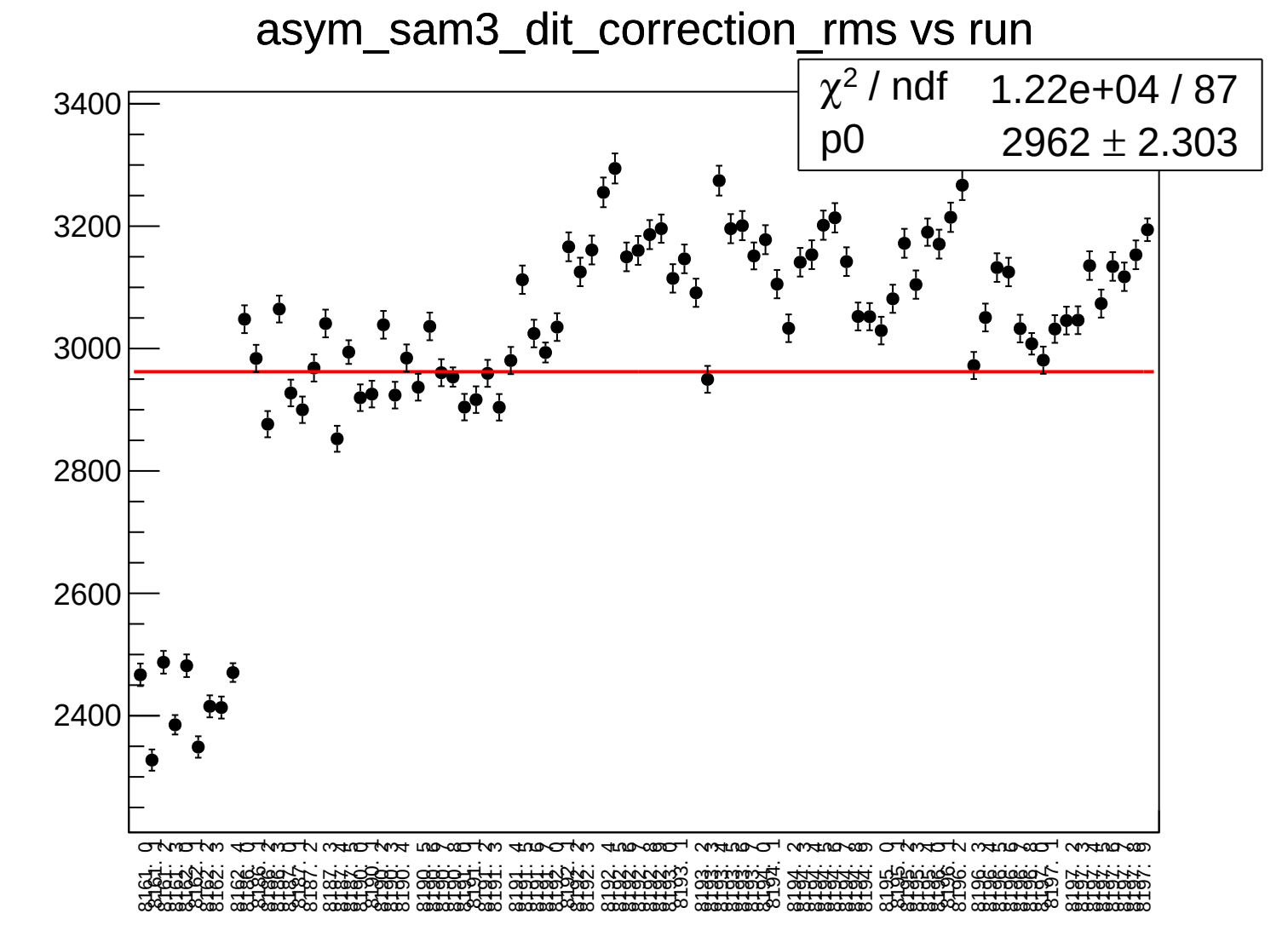

dit_asym_sam3_mean vs run
χ² / ndf 103.7 / 87
p0 −17.3 ± 290.5
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −334.2
Std Dev 0
2
1
0
−1
−2

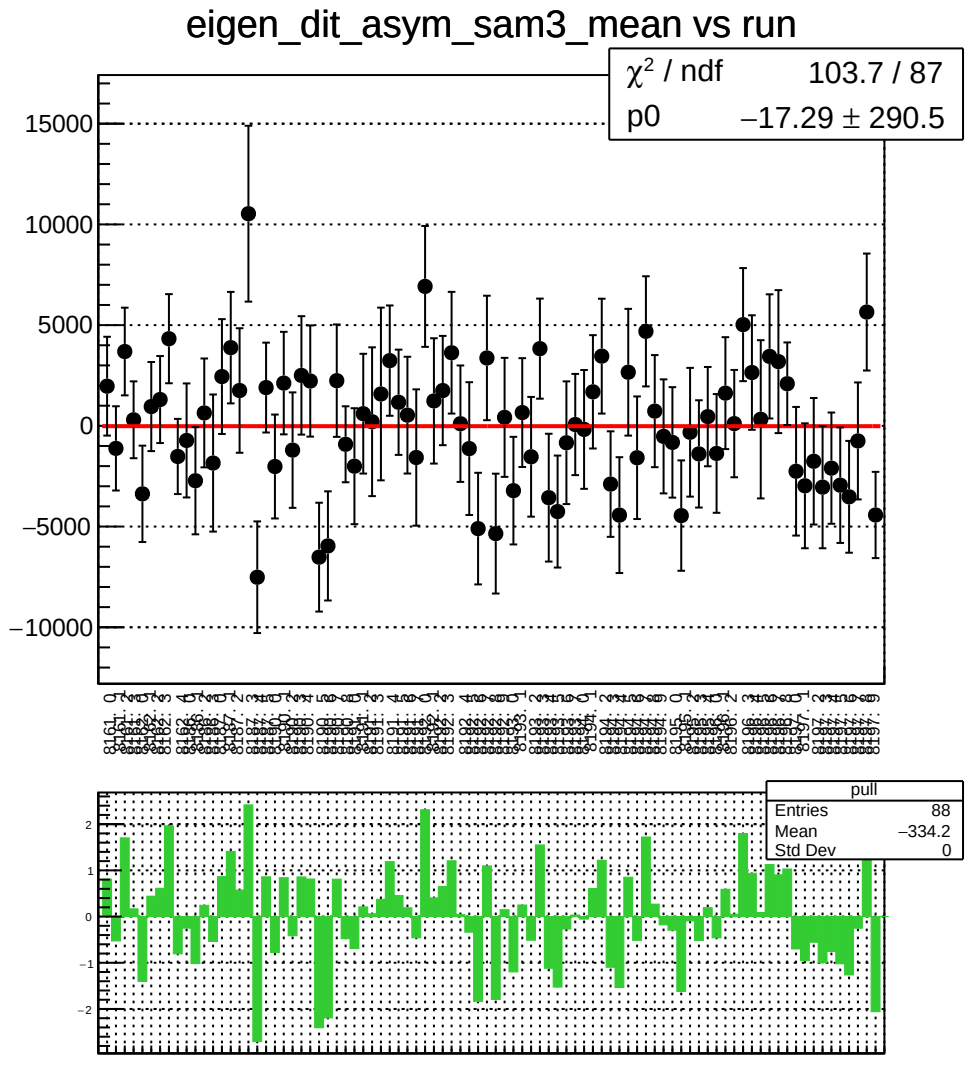

pull1D
Entries 88
Mean 0.008009
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

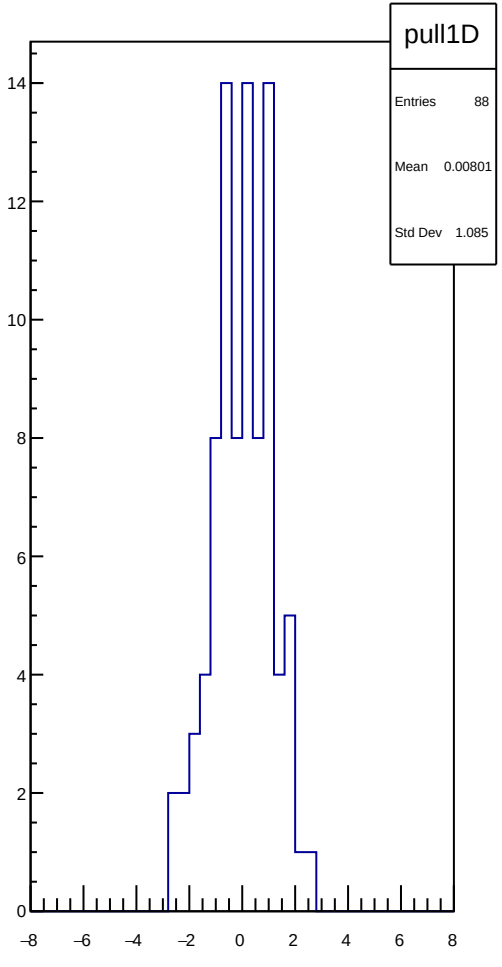

dit_asym_sam3_rms vs run
χ^2 / ndf 3.137e+04 / 87
p0 262.7 ± 0.2054
450
400
350
300
250
200

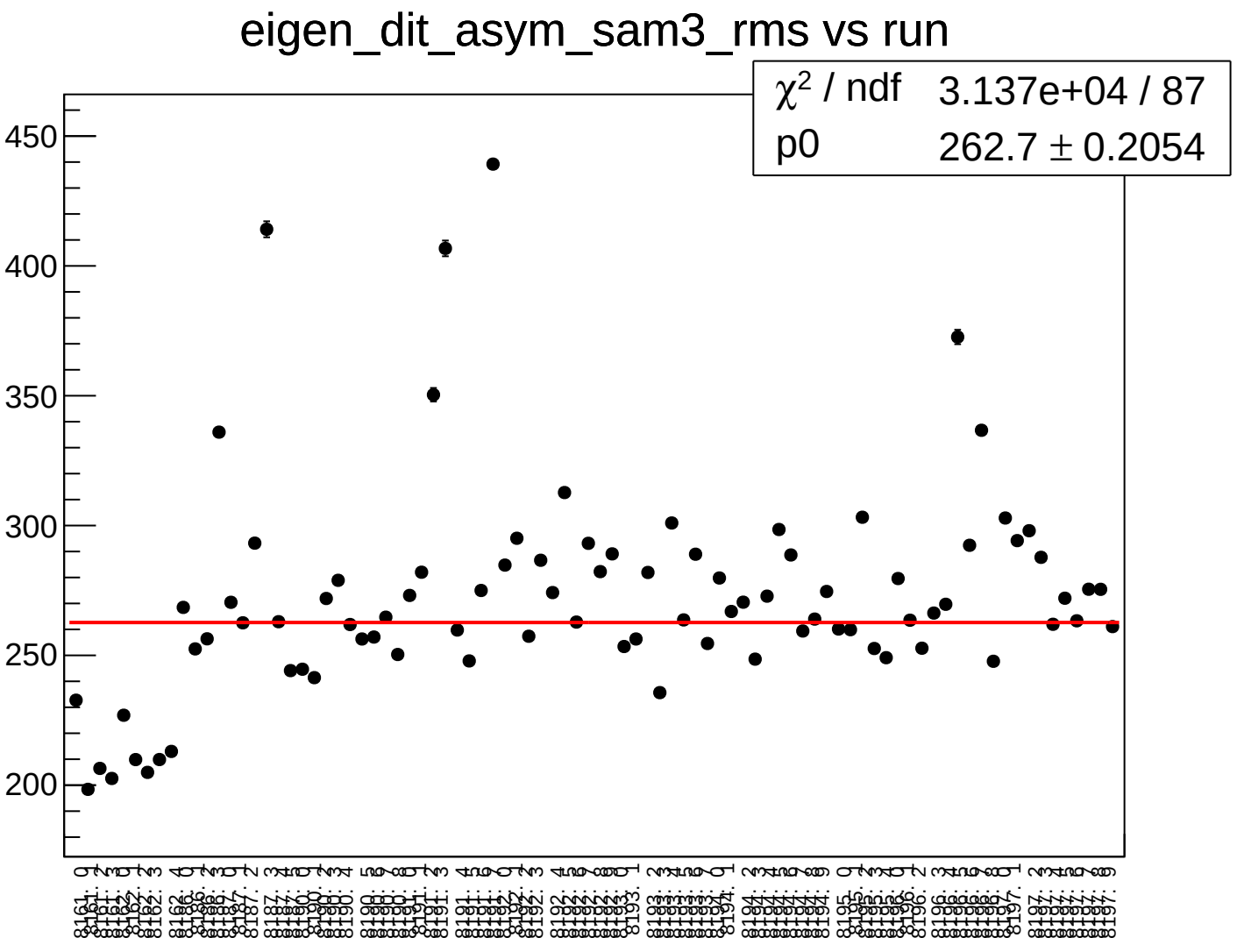

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 85.25 / 87
p0 −1.045e+04 ± 3257
100
50
0
−50
−100
pull
Entries 88
Mean 2080
Std Dev 0
3
2
1
0
−1
−2

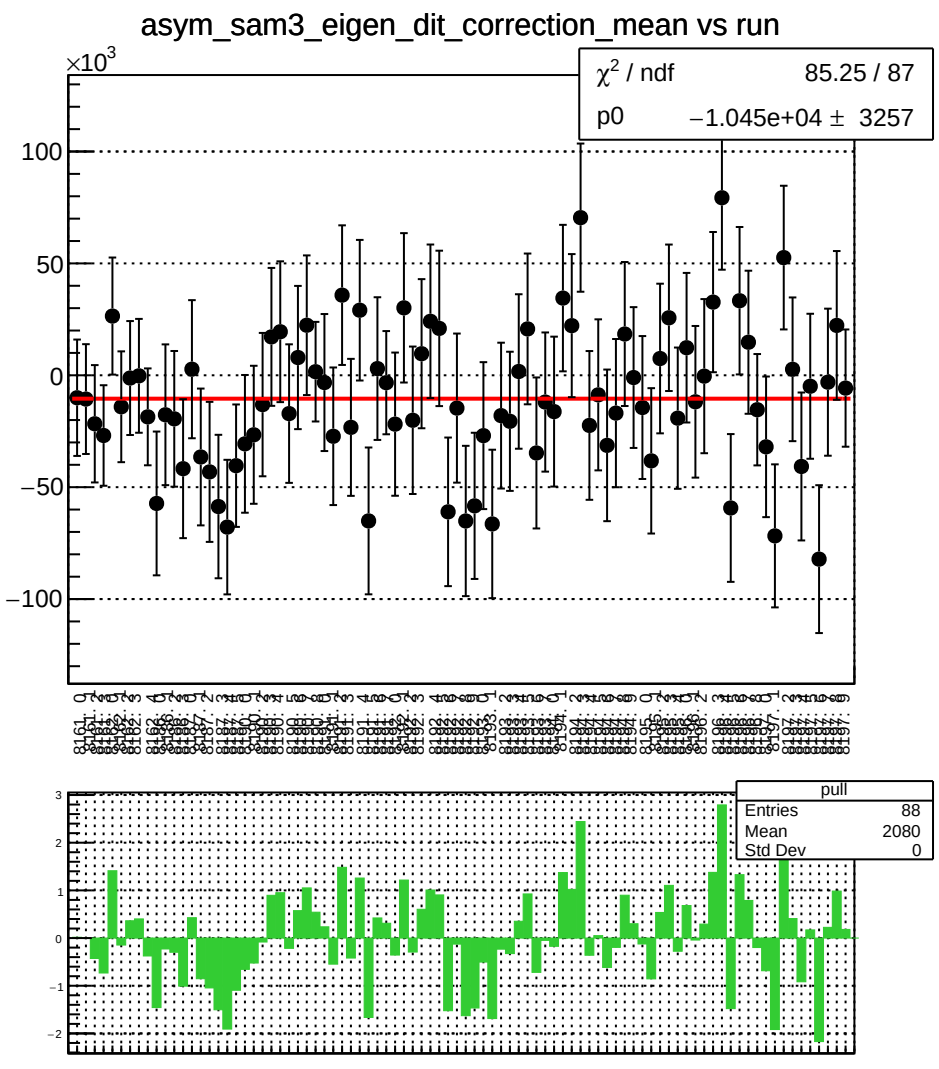

pull1D
Entries 88
Mean 0.001901
Std Dev 0.9843
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

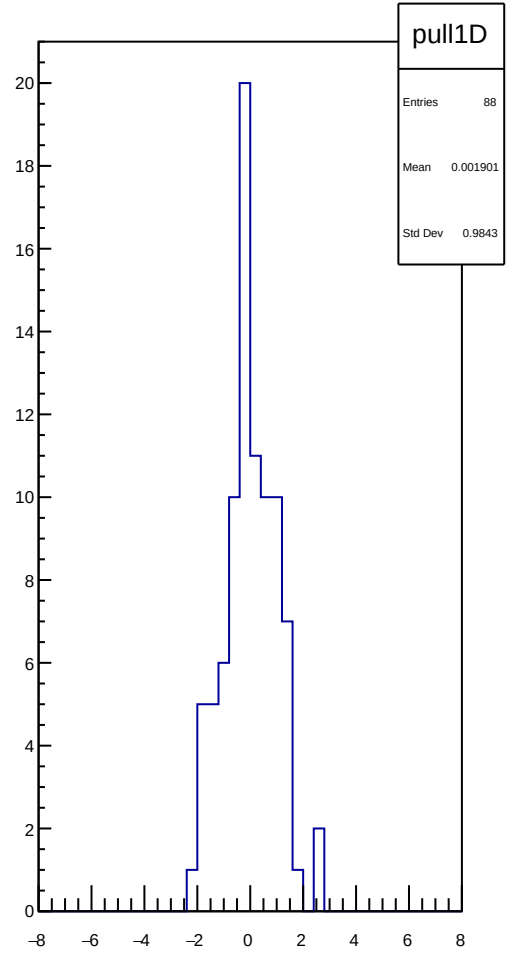

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.22e+04 / 87
p0 2962 ± 2.303
3400
3200
3000
2800
2600
2400

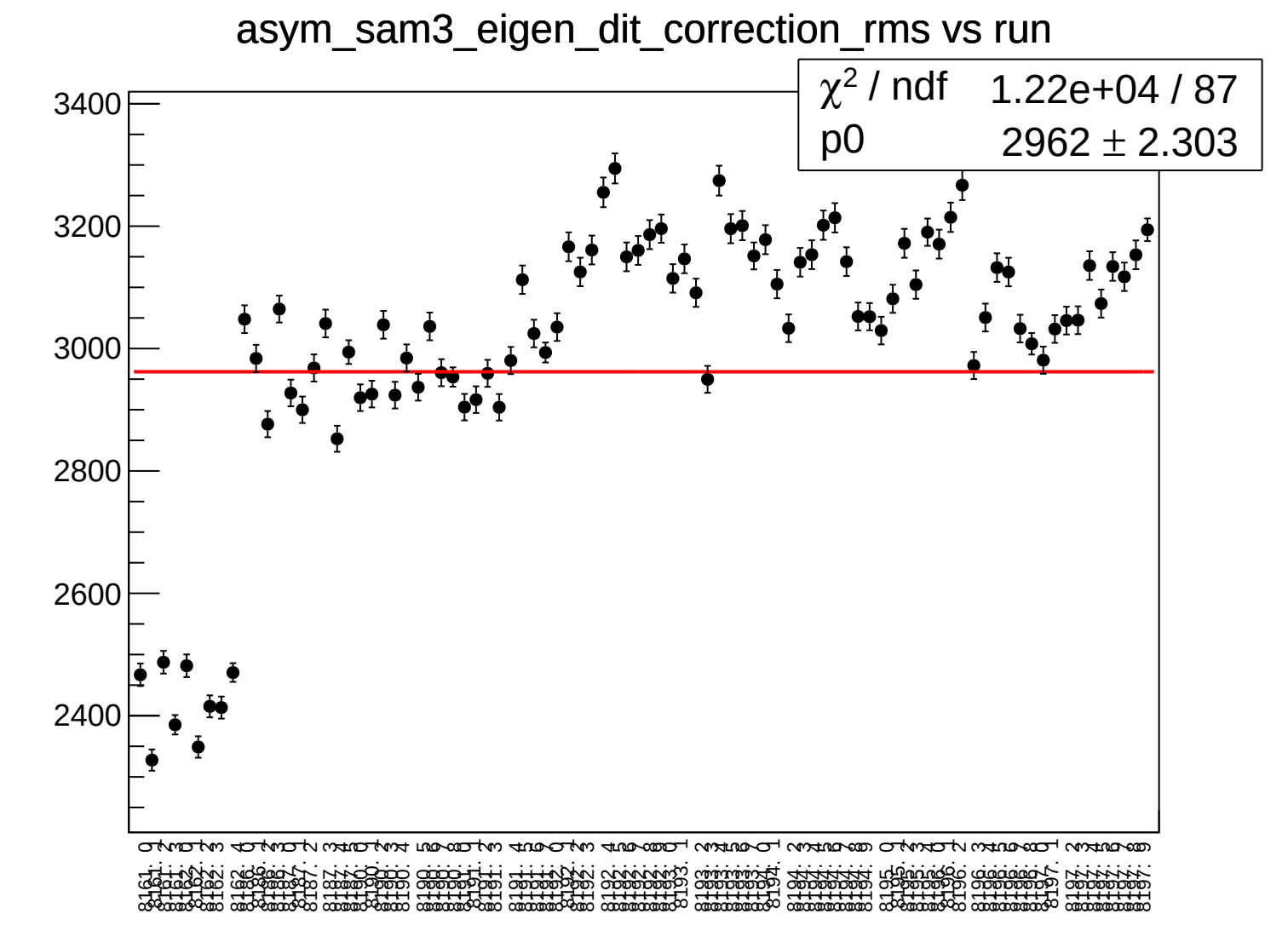

eigen_dit_asym_sam3_mean vs run
χ² / ndf 103.7 / 87
p0 −17.29 ± 290.5
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −334.2
Std Dev 0
2
1
0
−1
−2

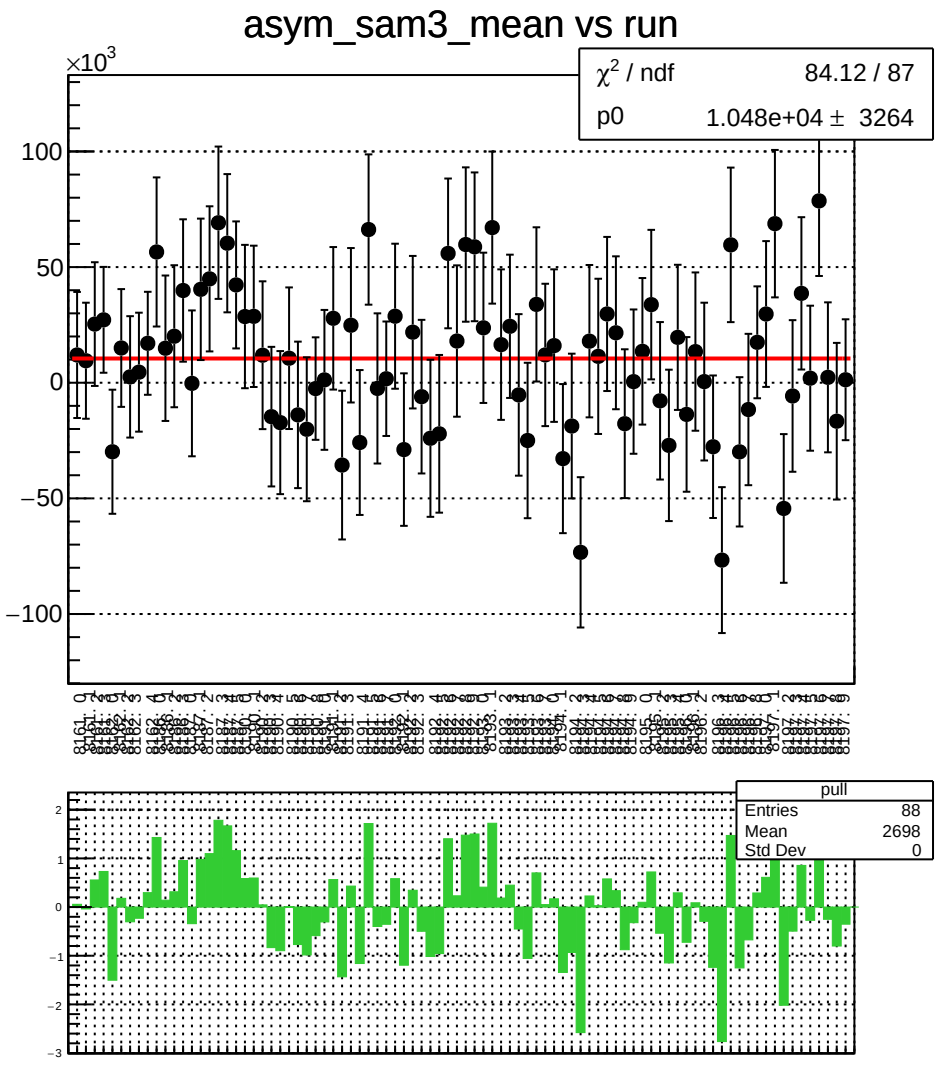

pull1D
Entries 88
Mean 0.00801
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

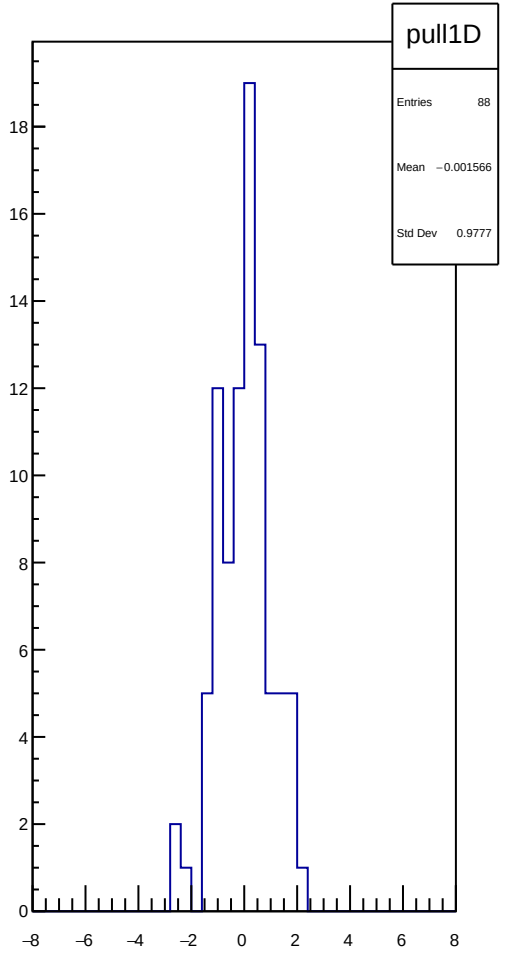

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 3.137e+04 / 87
p0 262.7 ± 0.2054
450
400
350
300
250
200

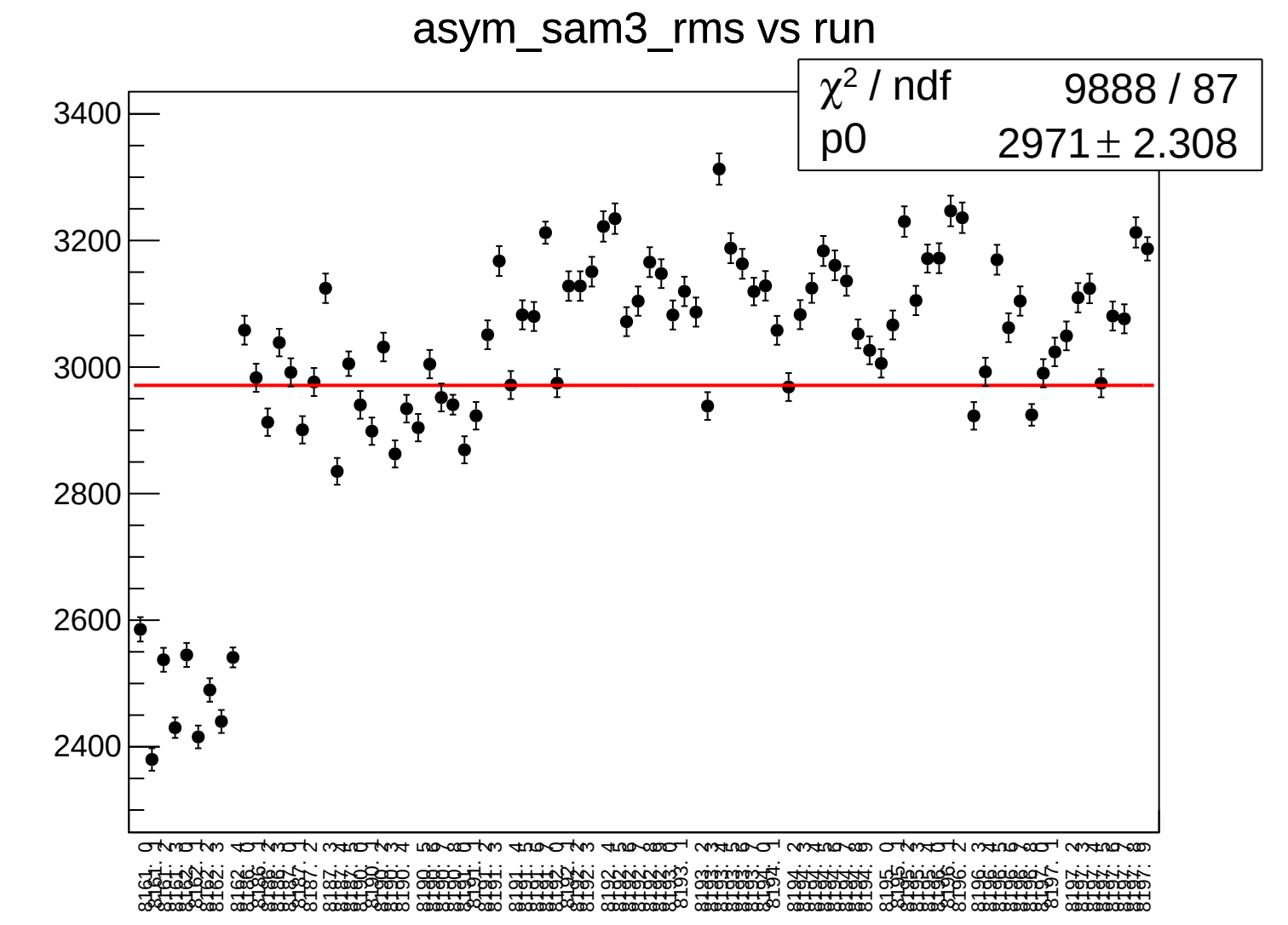

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.25 / 87
p0 −1.045e+04 ± 3257
100
50
0
−50
−100
pull
Entries 88
Mean 2080
Std Dev 0
3
2
1
0
−1
−2

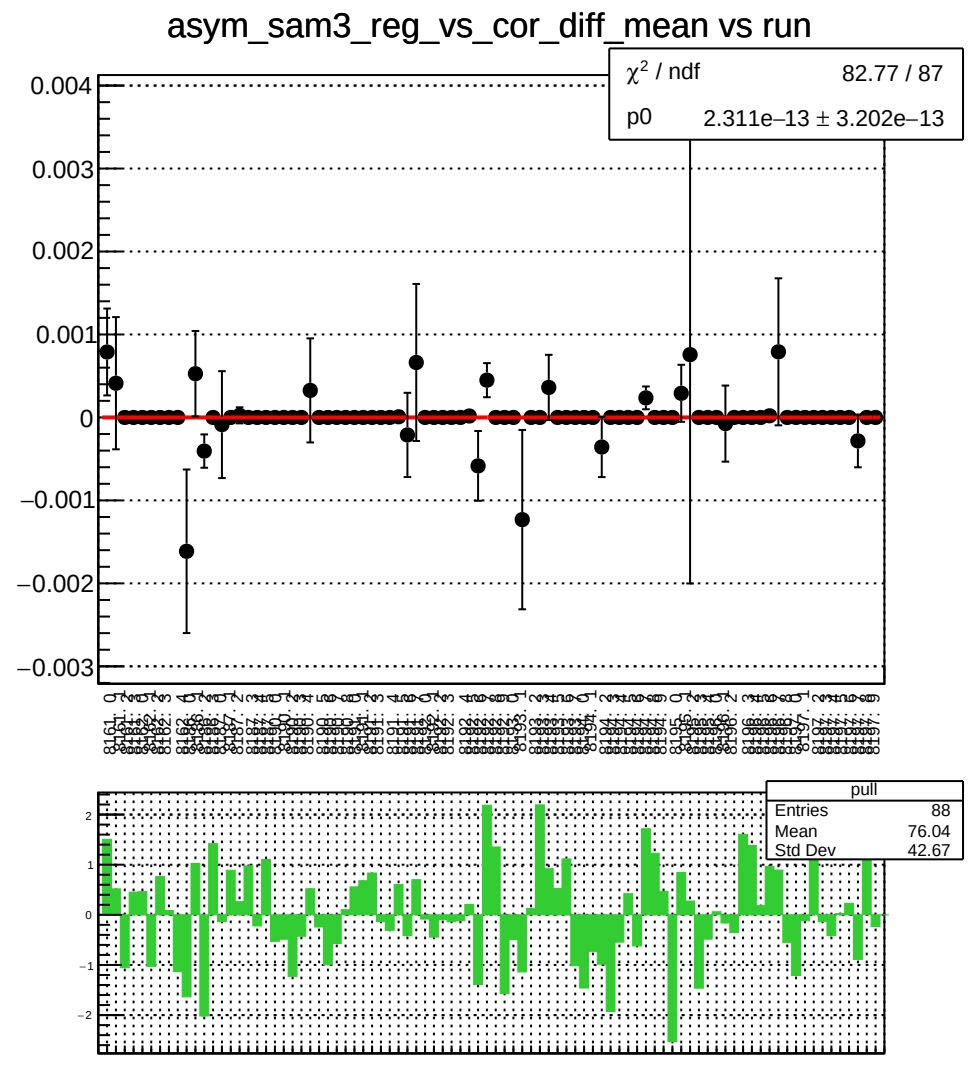

pull1D
Entries 88
Mean 0.001901
Std Dev 0.9843
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

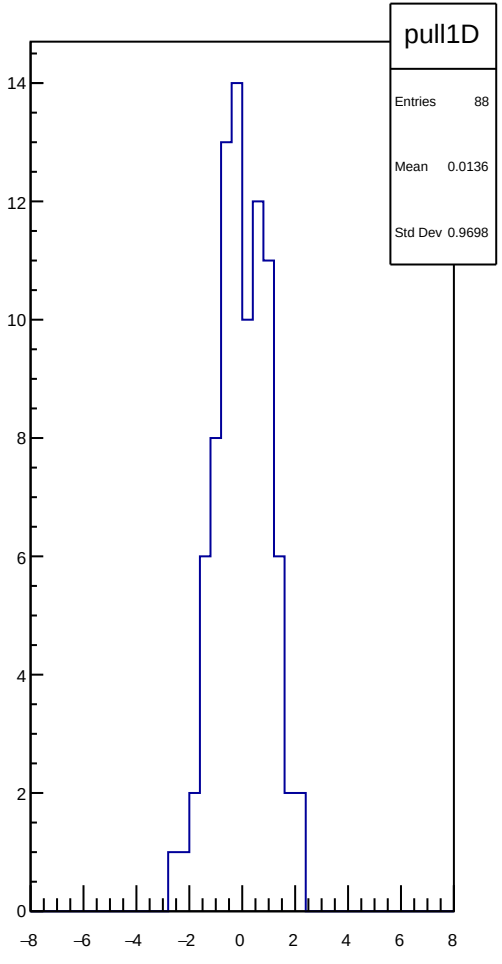

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.22e+04 / 87
p0 2962 ± 2.303
3400
3200
3000
2800
2600
2400

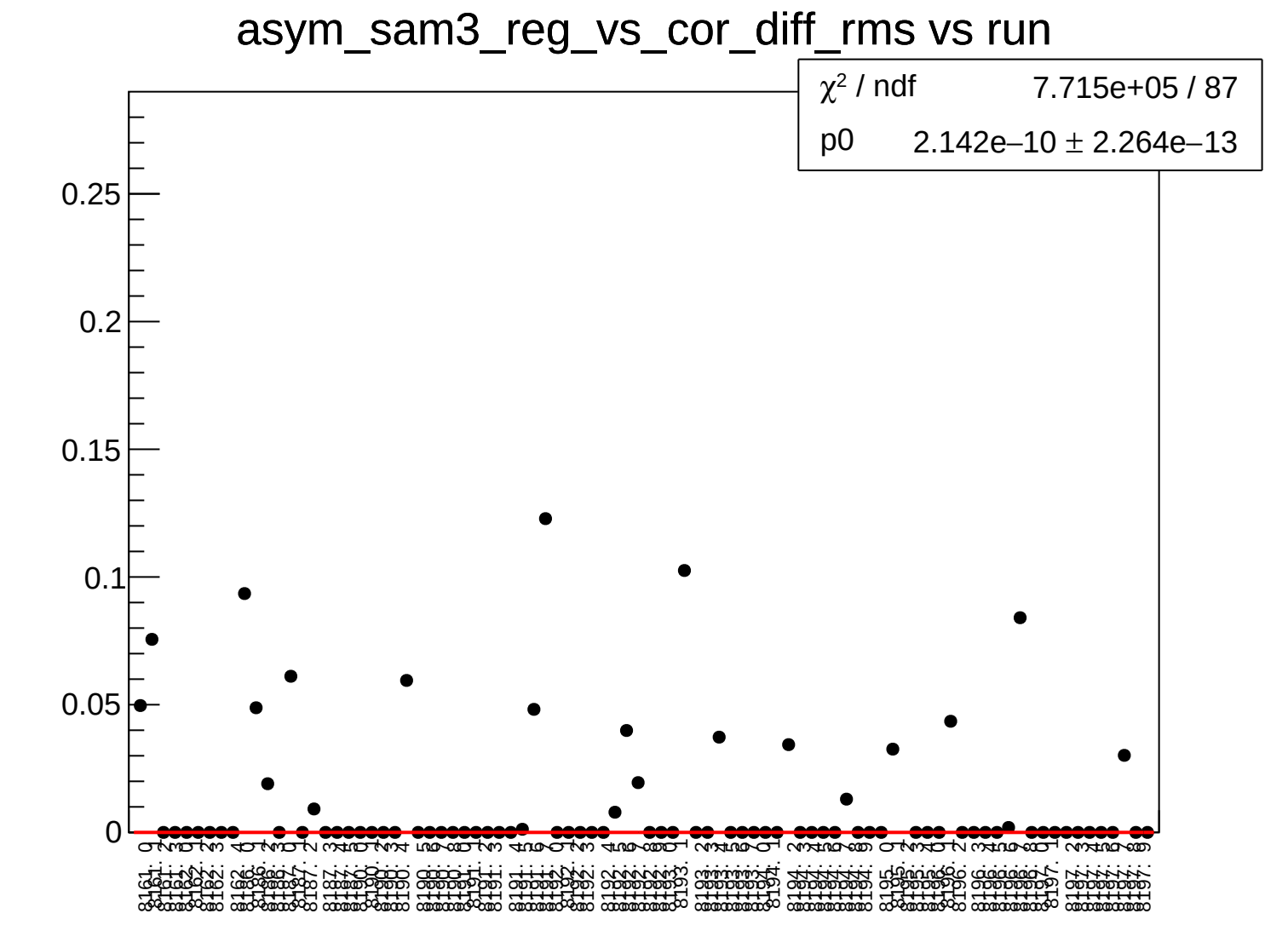

asym_sam3_mean vs run
×10^3
χ² / ndf 84.12 / 87
p0 1.048e+04 ± 3264
100
50
0
−50
−100
pull
Entries 88
Mean 2698
Std Dev 0
2
1
0
−1
−2
−3

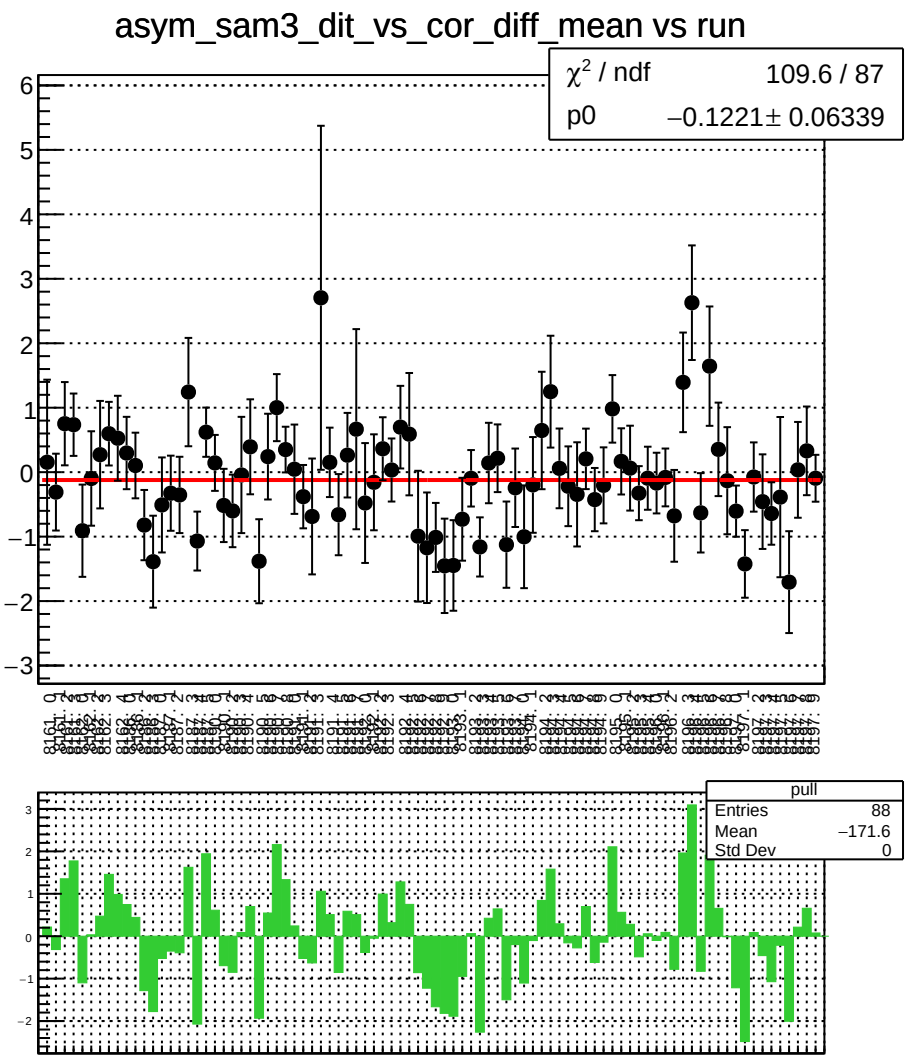

pull1D
Entries 88
Mean −0.001566
Std Dev 0.9777
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

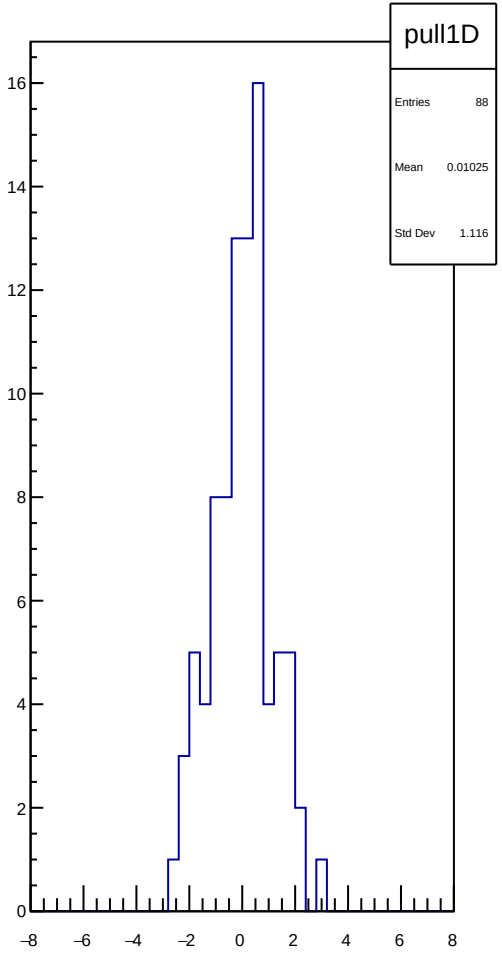

asym_sam3_rms vs run
χ^2 / ndf 9888 / 87
p0 2971 ± 2.308
3400
3200
3000
2800
2600
2400

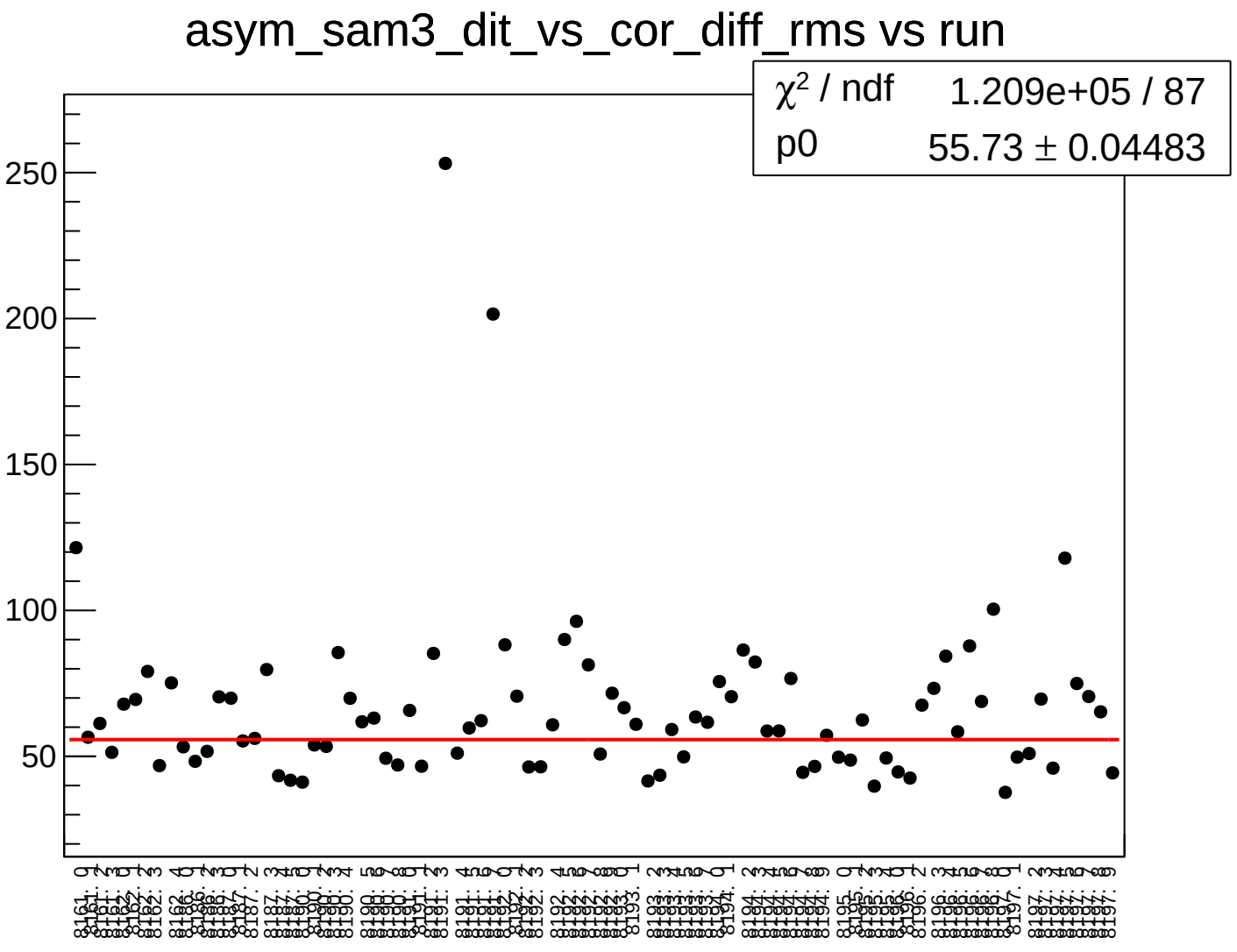

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 82.77 / 87
p0 2.311e−13 ± 3.202e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 88
Mean 76.04
Std Dev 42.67
2
1
0
−1
−2

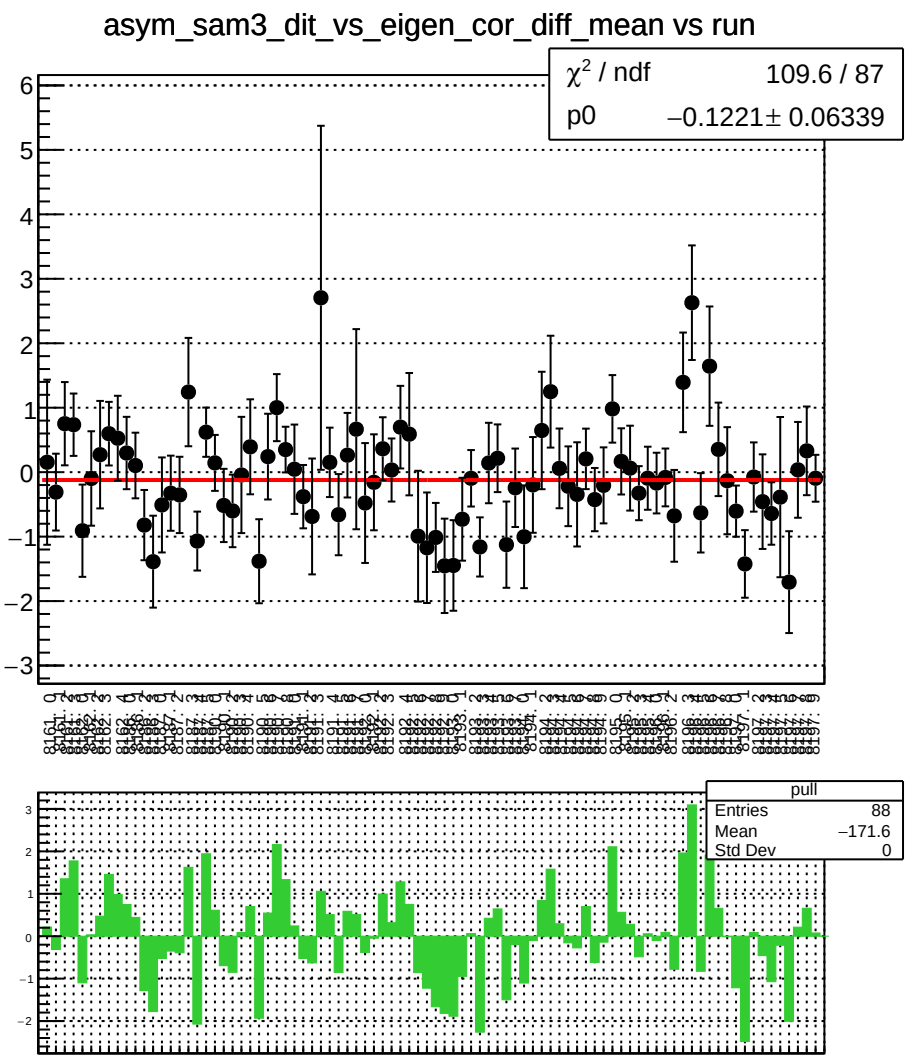

pull1D
Entries 88
Mean 0.0136
Std Dev 0.9698
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

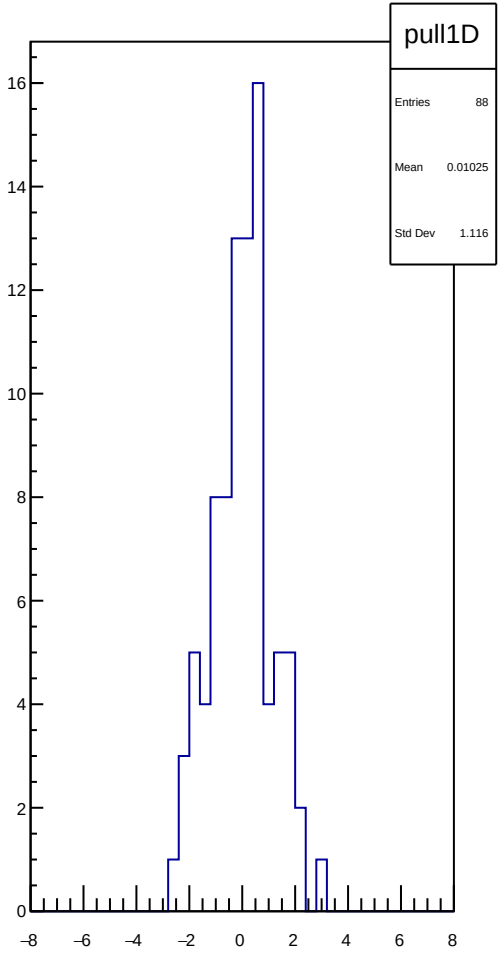

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 7.715e+05 / 87
p0 2.142e−10 ± 2.264e−13
0.25
0.2
0.15
0.1
0.05
0

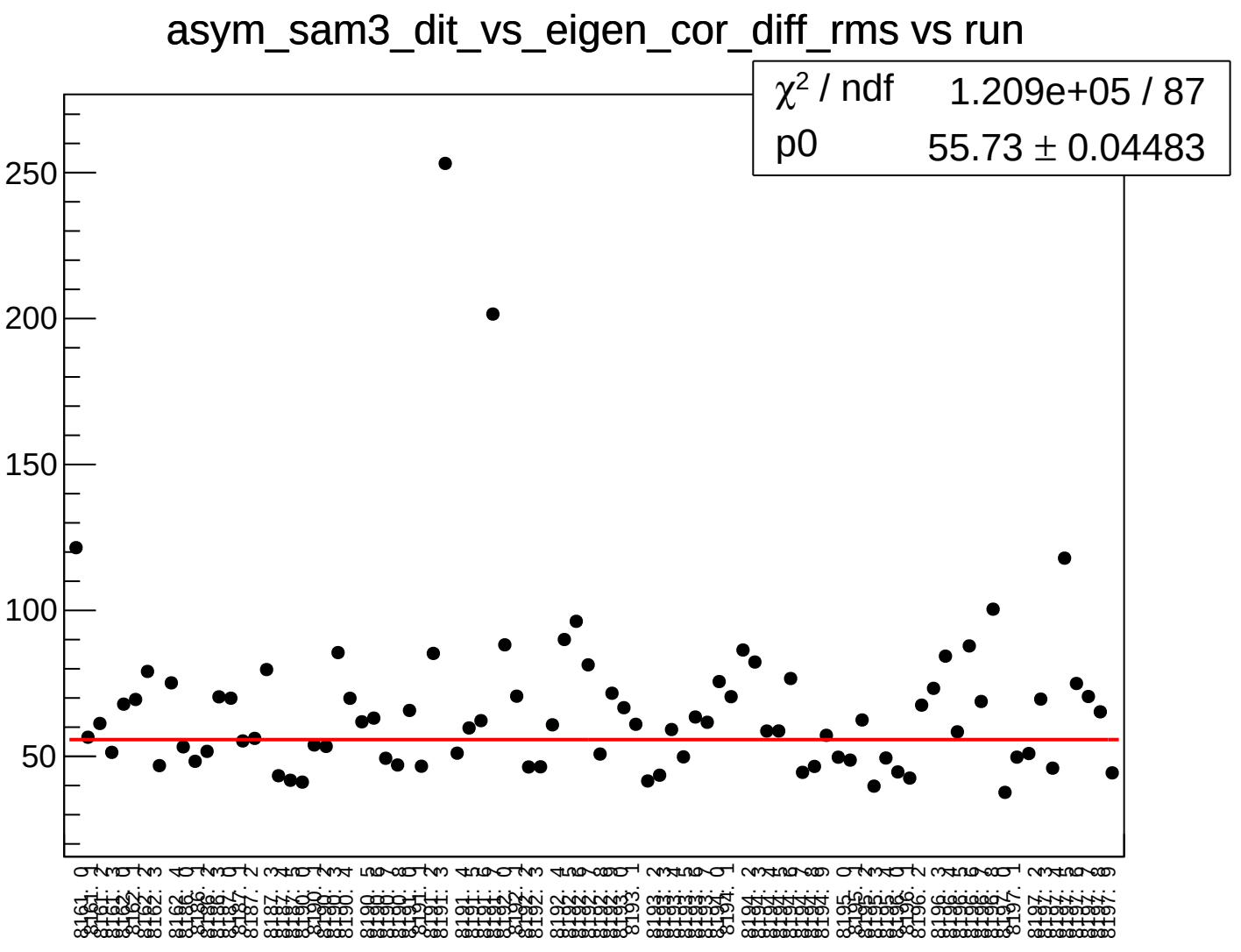

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 87
p0 −0.1221± 0.06339
pull
Entries 88
Mean −171.6
Std Dev 0

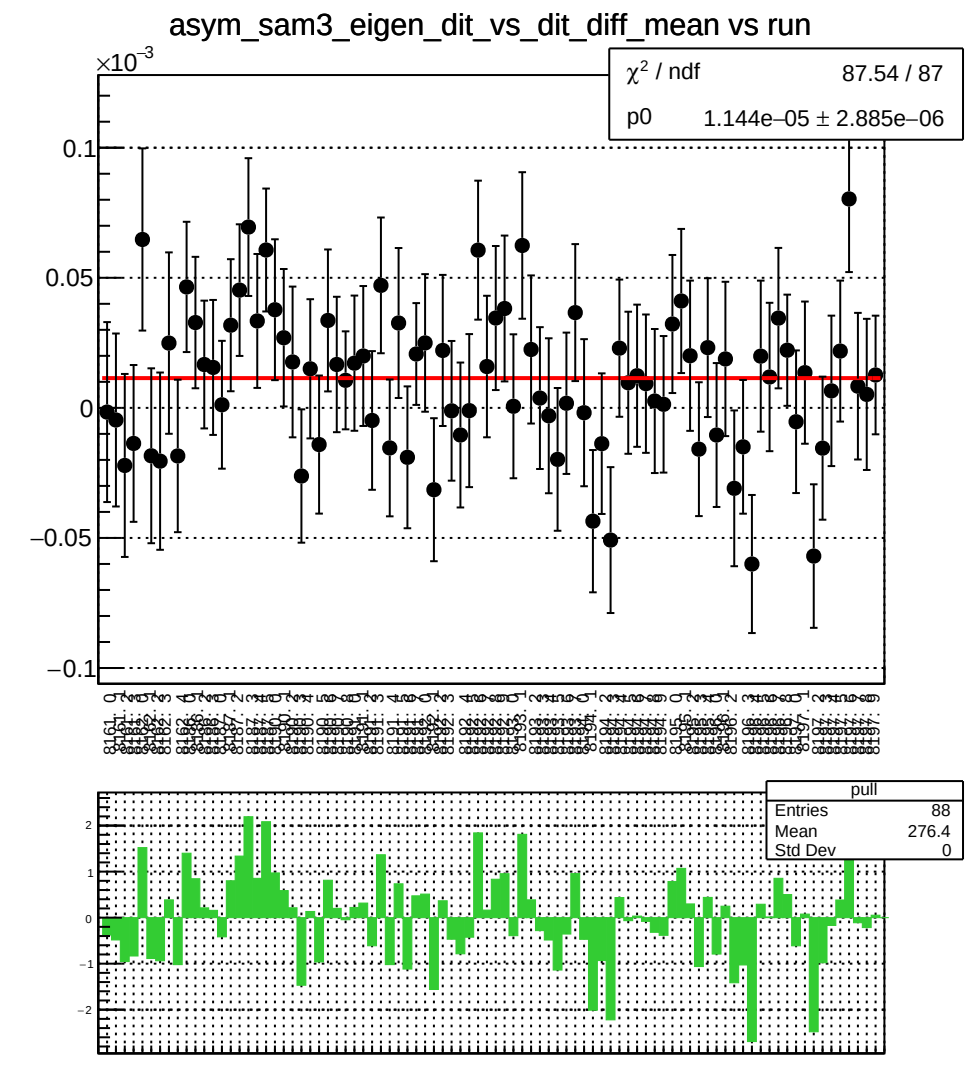

pull1D
Entries 88
Mean 0.01025
Std Dev 1.116

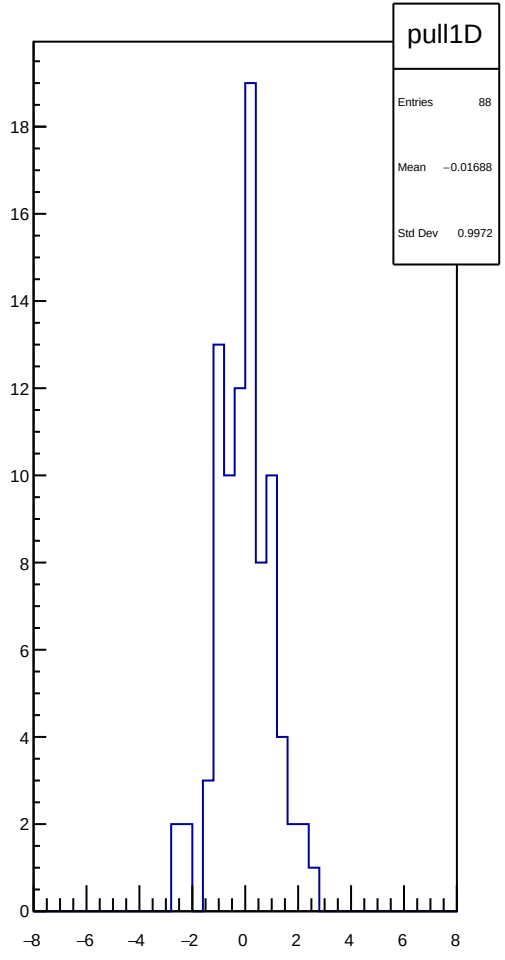

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 87
p0 55.73 ± 0.04483
250
200
150
100
50

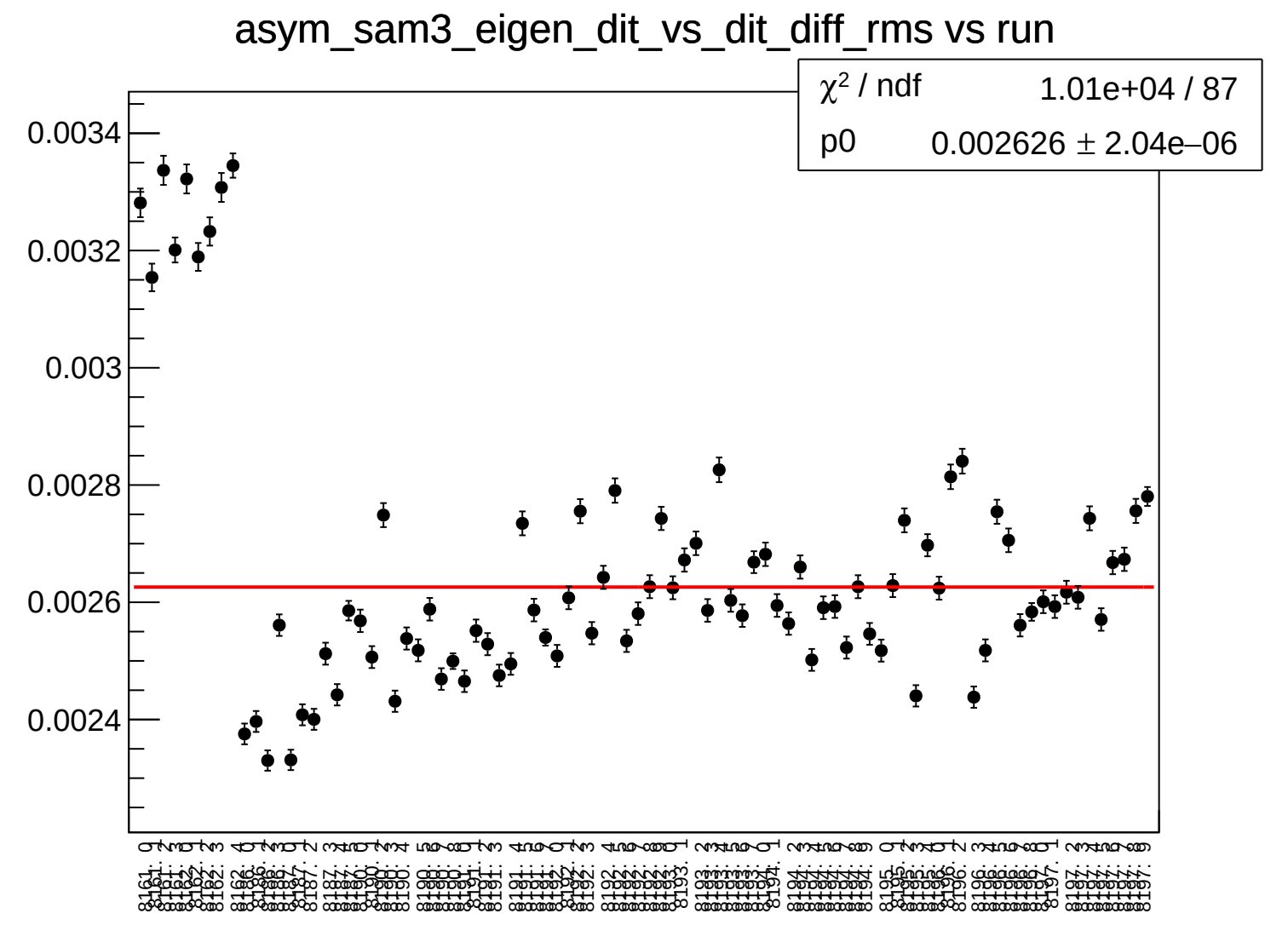

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 87
p0 −0.1221± 0.06339
pull
Entries 88
Mean −171.6
Std Dev 0

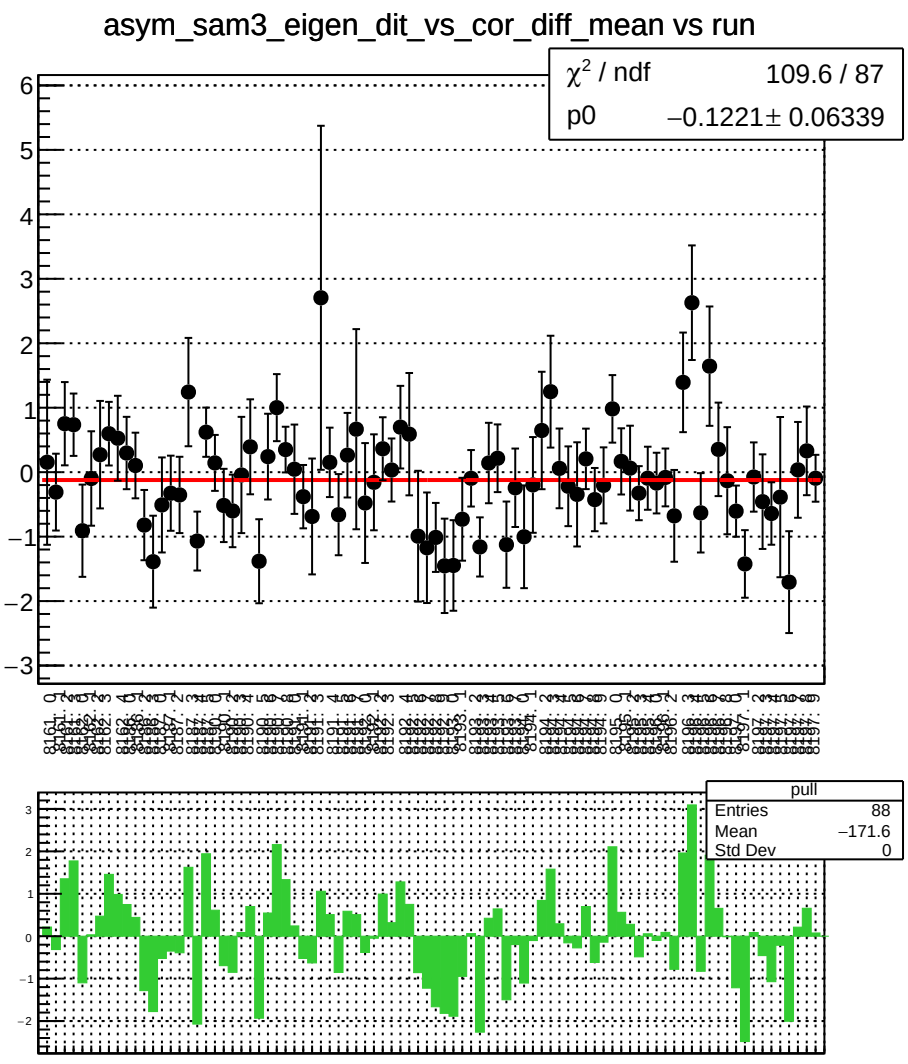

pull1D
Entries 88
Mean 0.01025
Std Dev 1.116

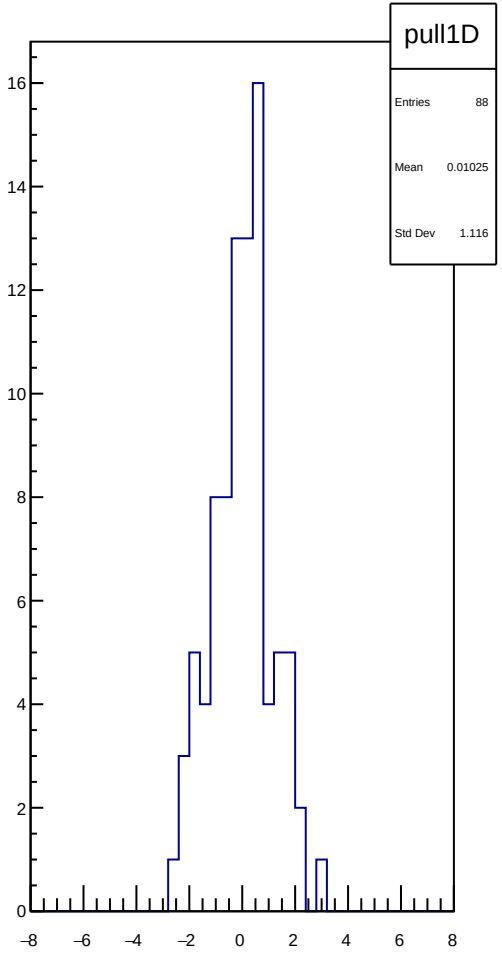

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 87
p0 55.73 ± 0.04483
250
200
150
100
50

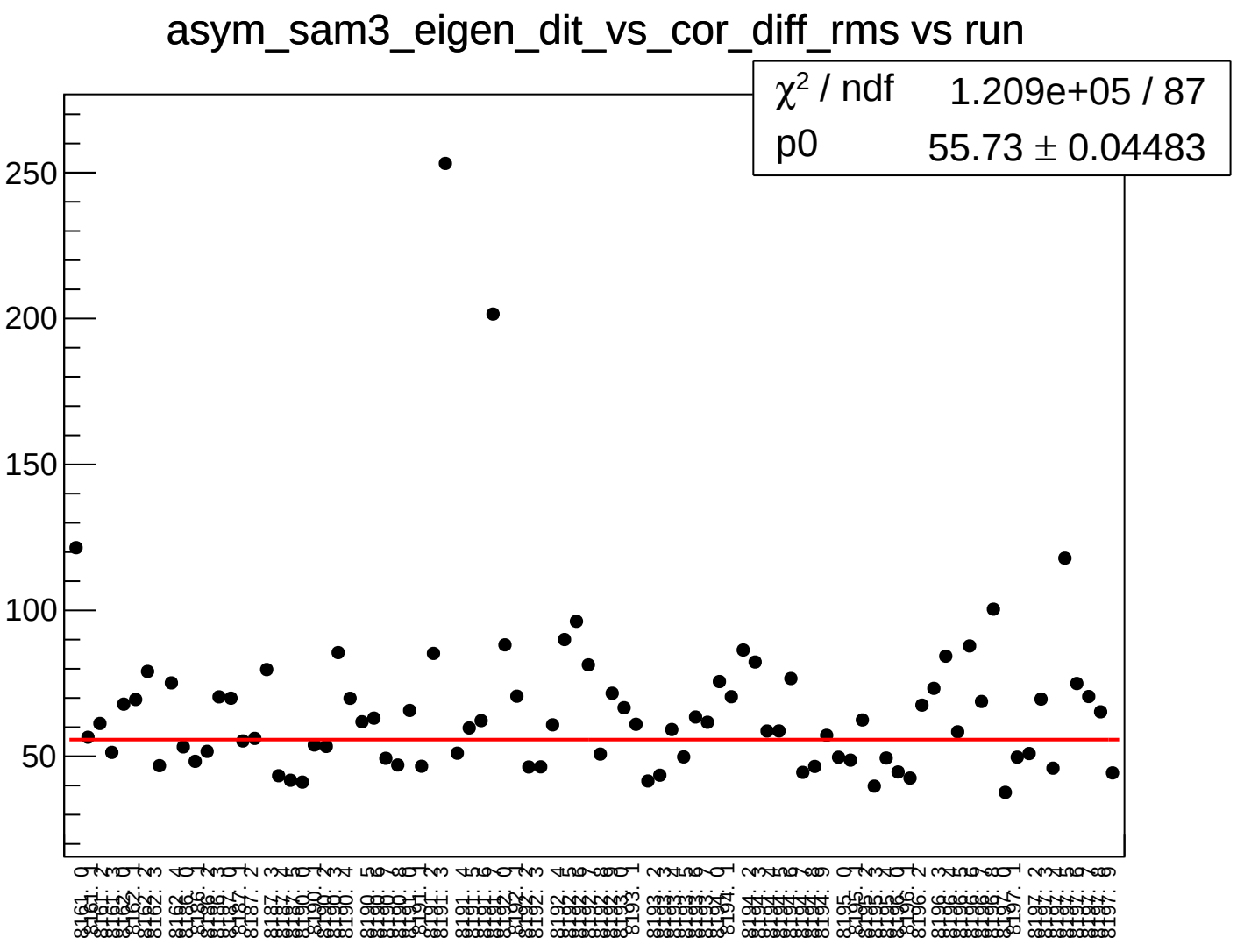

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.54 / 87
p0 1.144e−05 ± 2.885e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 276.4
Std Dev 0
2
1
0
−1
−2

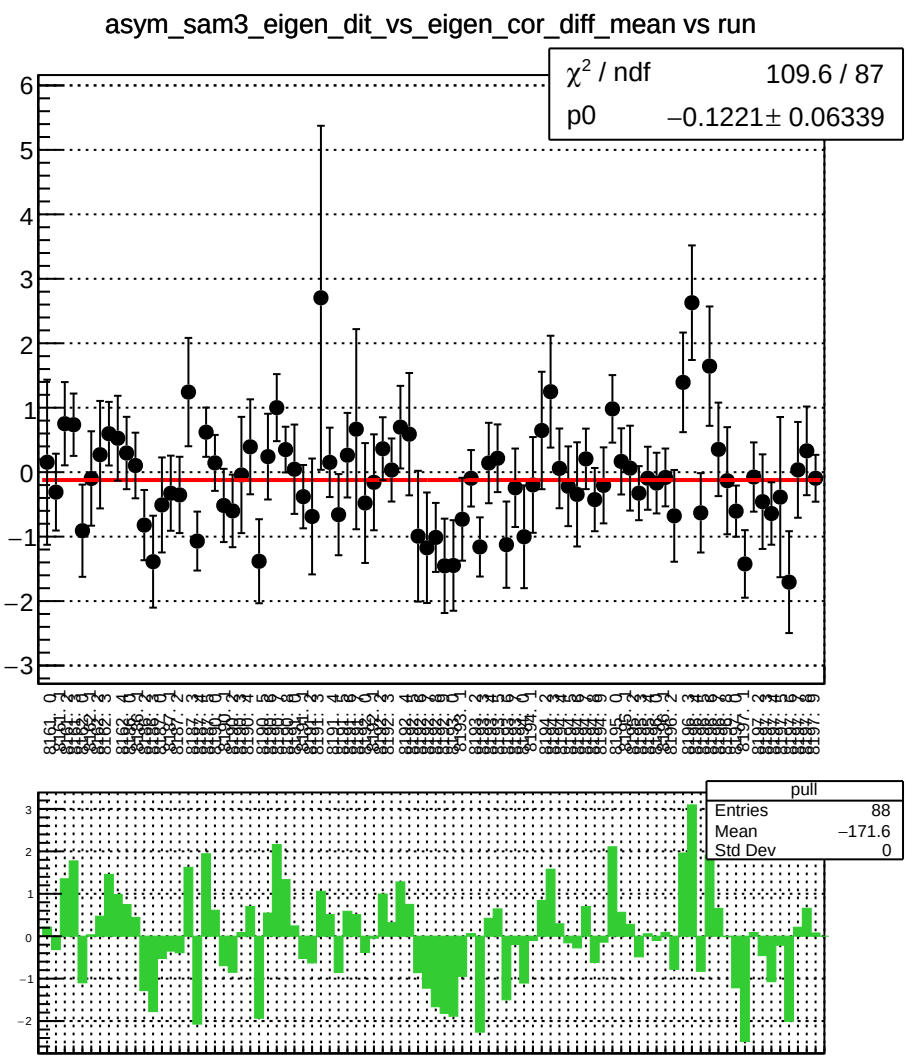

pull1D
Entries 88
Mean −0.01688
Std Dev 0.9972
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

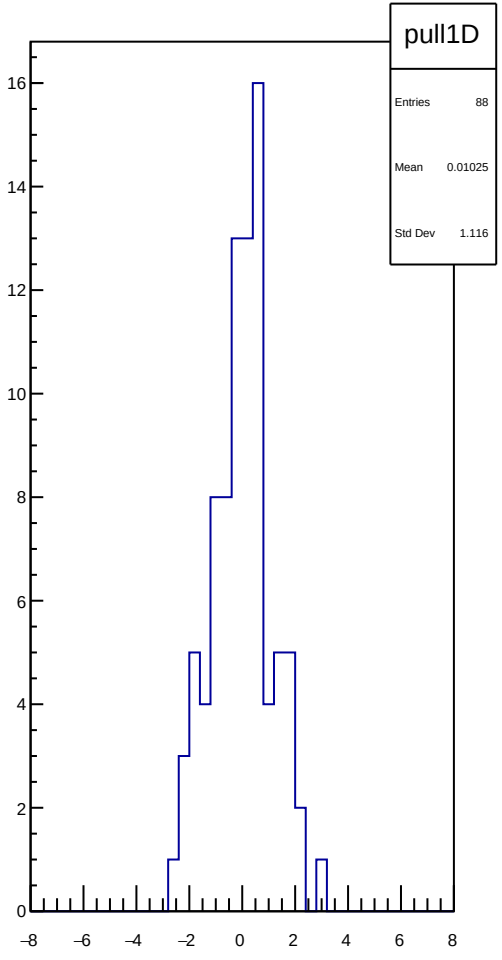

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.01e+04 / 87
p0 0.002626 ± 2.04e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

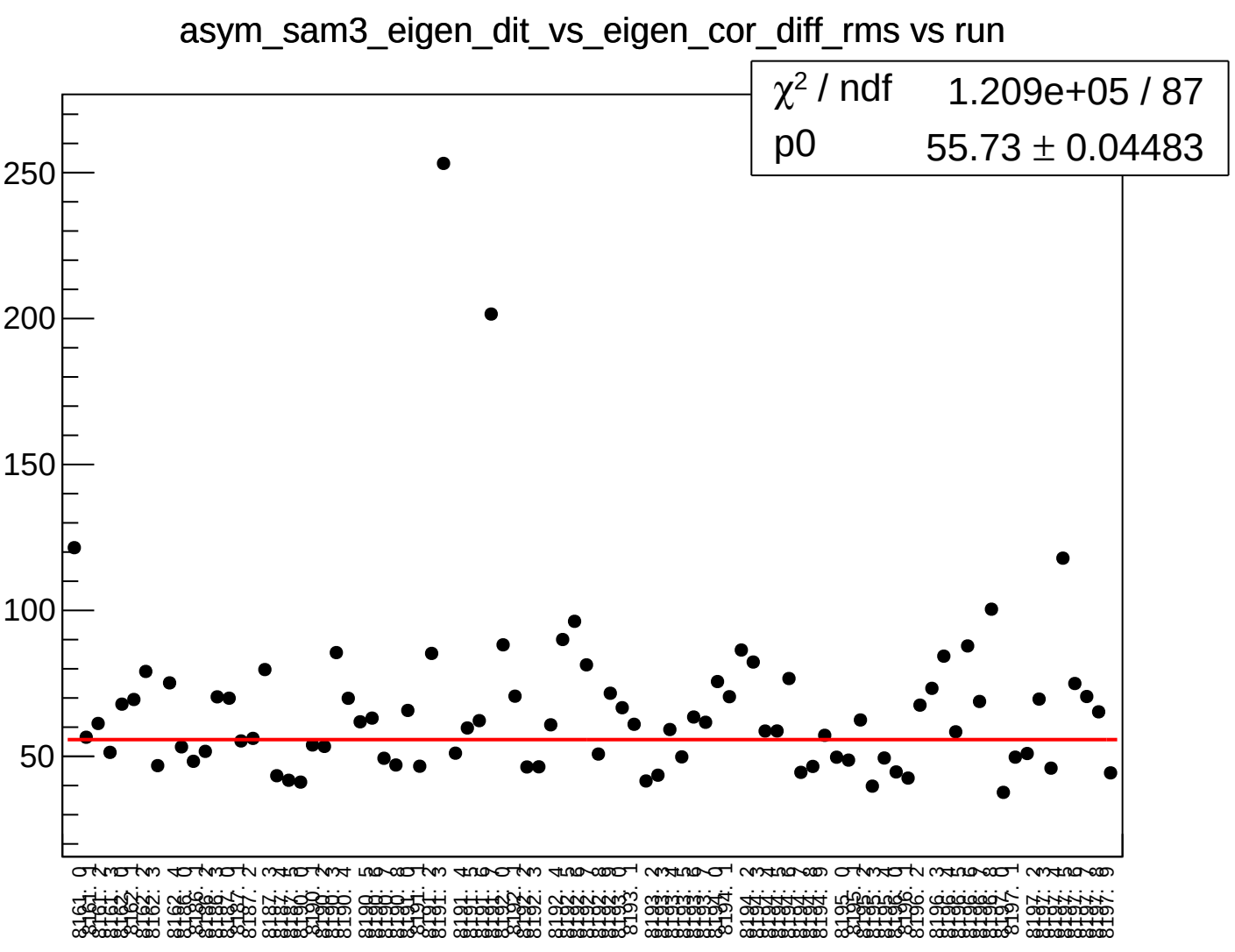

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 87
p0 −0.1221± 0.06339
pull
Entries 88
Mean −171.6
Std Dev 0

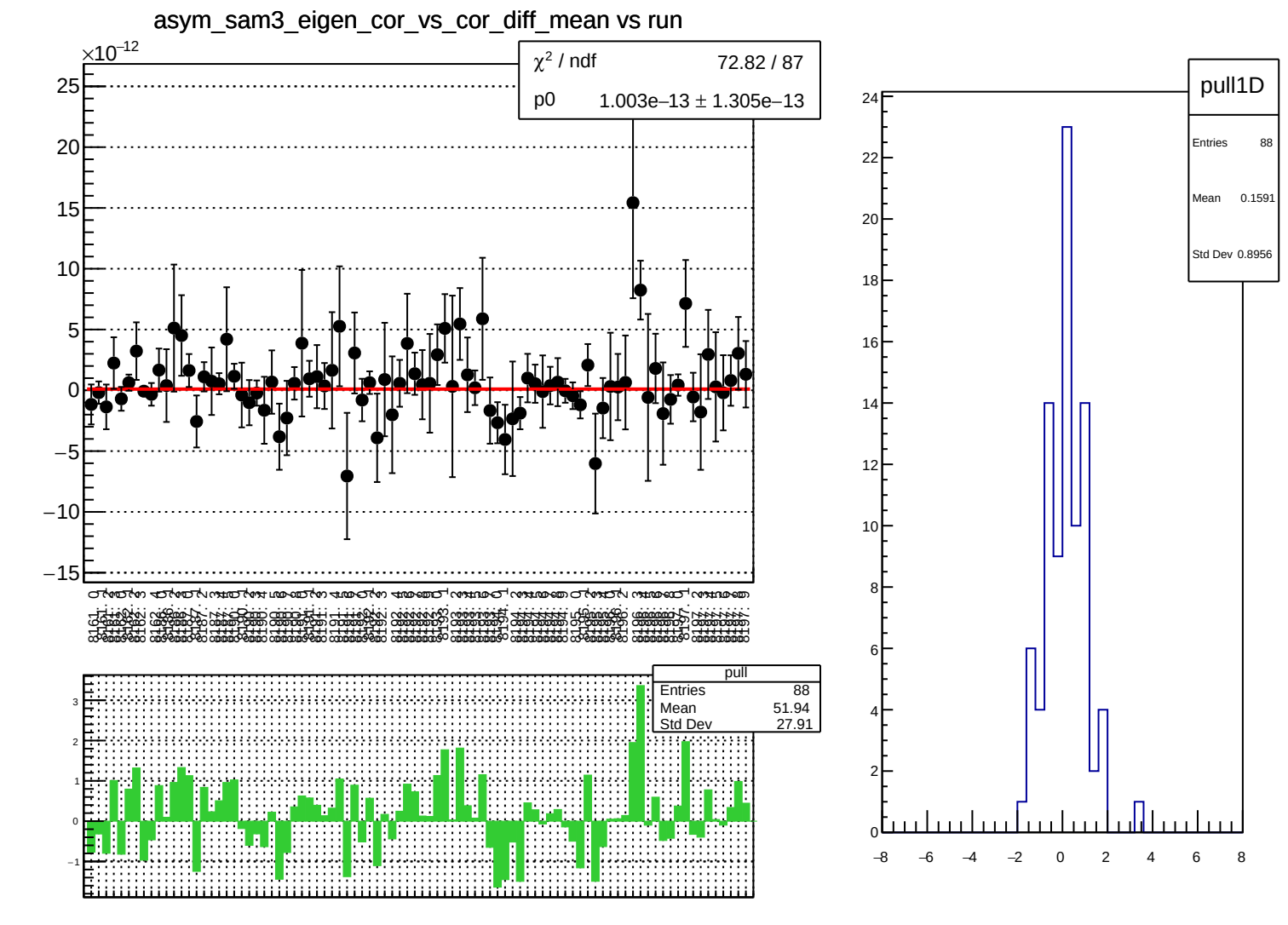

pull1D
Entries 88
Mean 0.01025
Std Dev 1.116

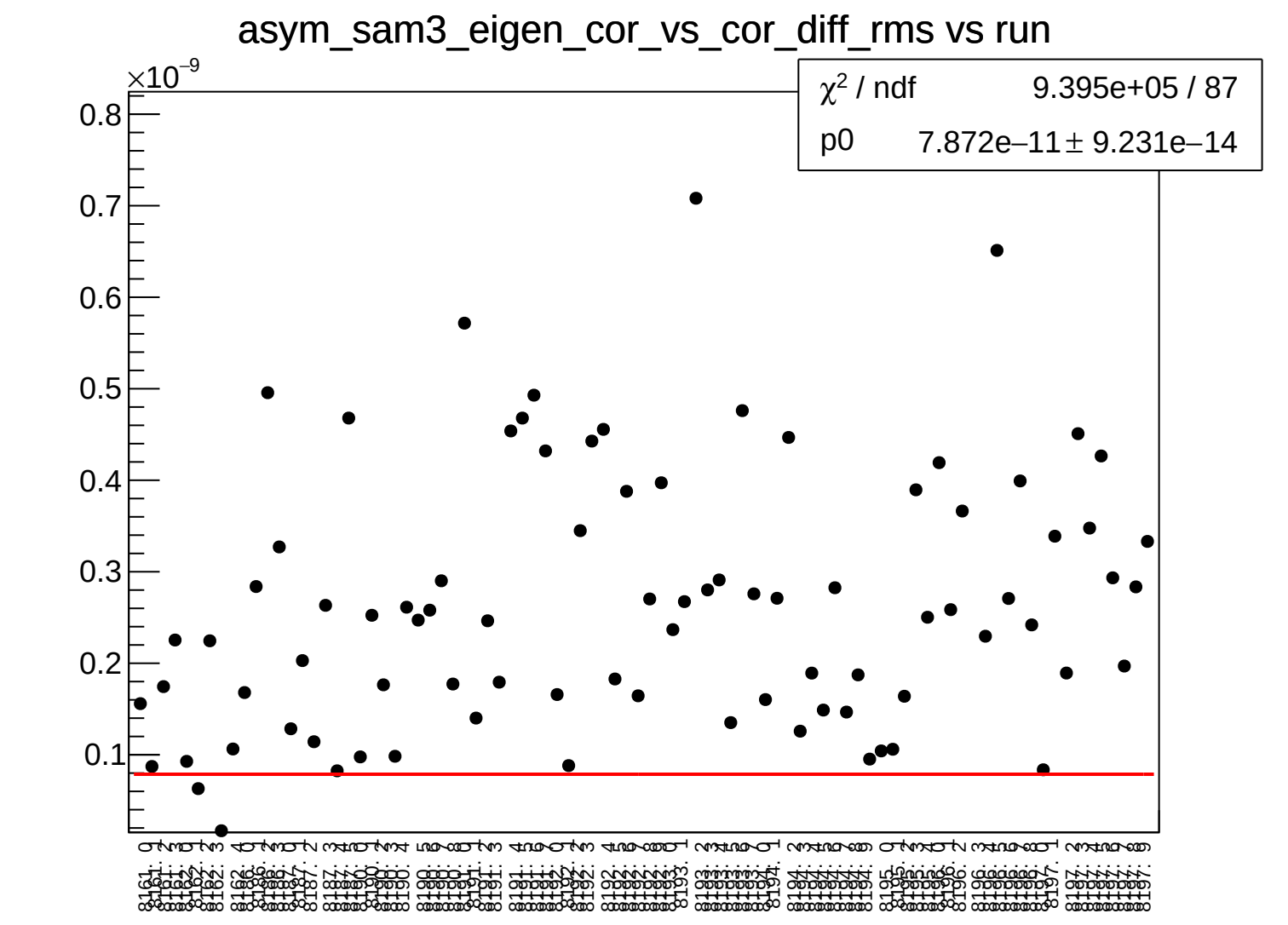

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 87
p0 55.73 ± 0.04483
250
200
150
100
50

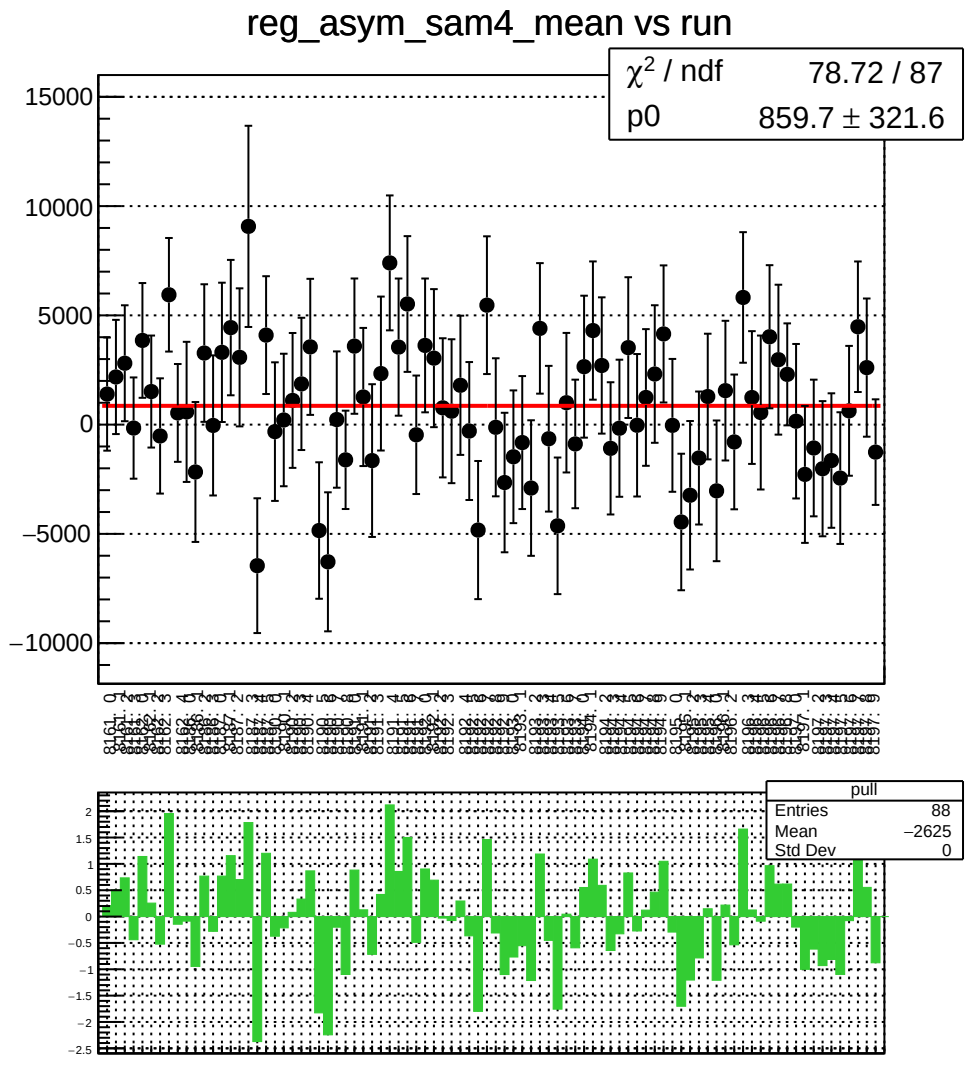

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 87
p0 −0.1221± 0.06339
pull
Entries 88
Mean −171.6
Std Dev 0

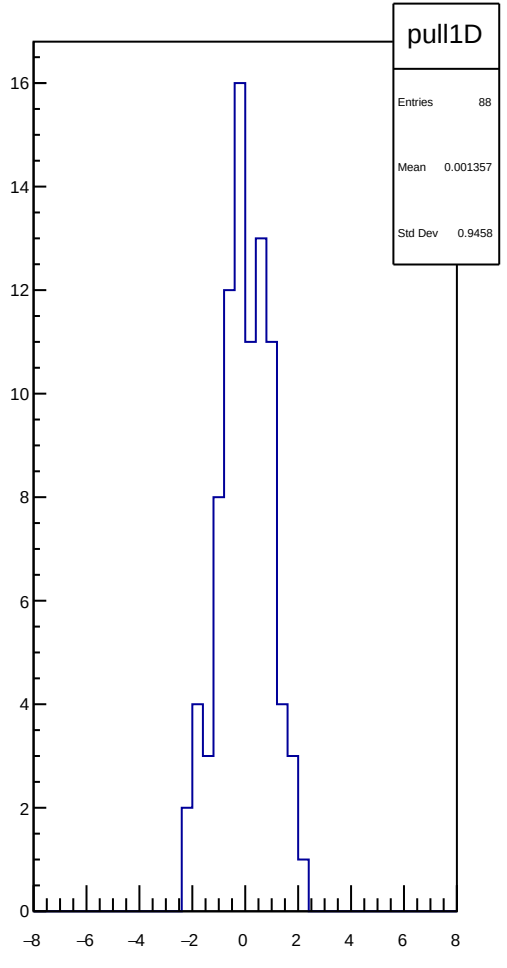

pull1D
Entries 88
Mean 0.01025
Std Dev 1.116

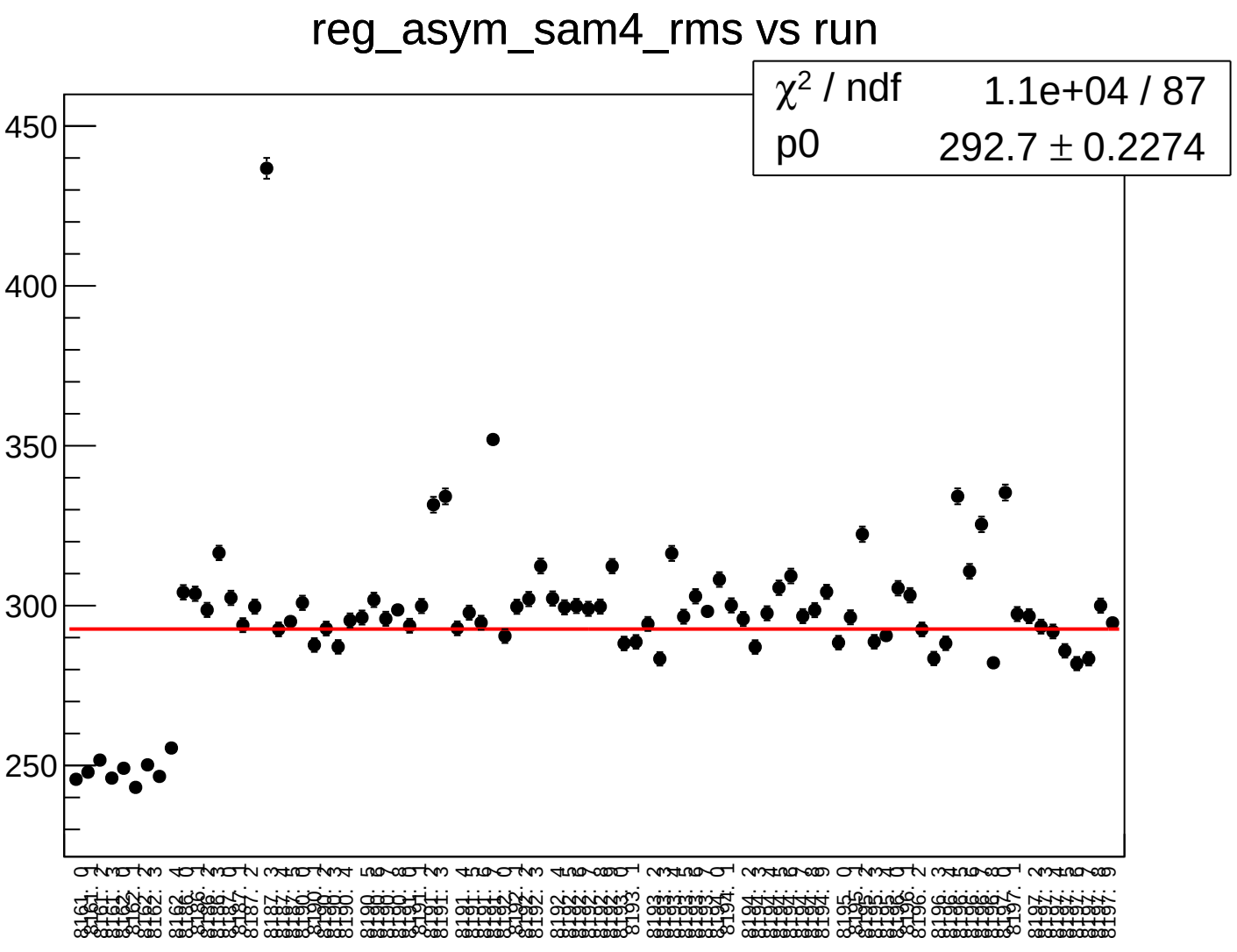

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 87
p0 55.73 ± 0.04483
250
200
150
100
50

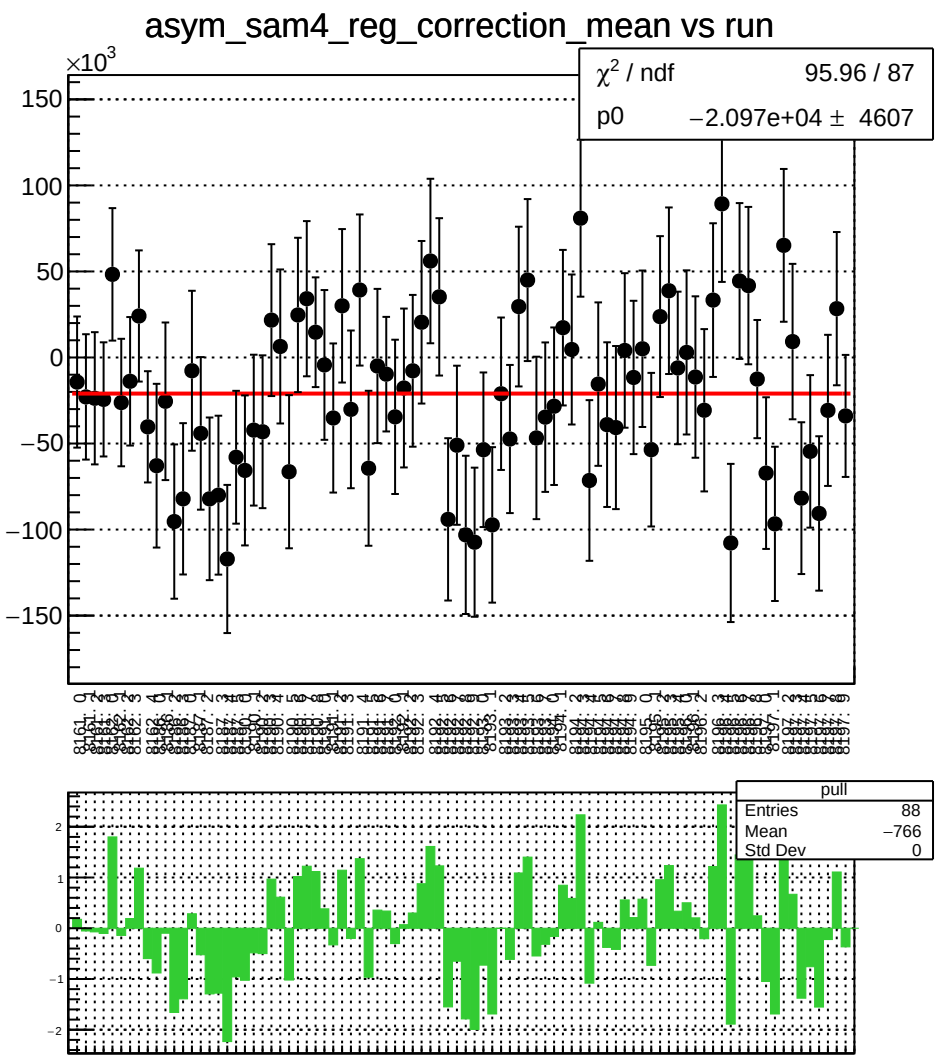

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.82 / 87
p0 1.003e−13 ± 1.305e−13
pull
Entries 88
Mean 51.94
Std Dev 27.91
pull1D
Entries 88
Mean 0.1591
Std Dev 0.8956

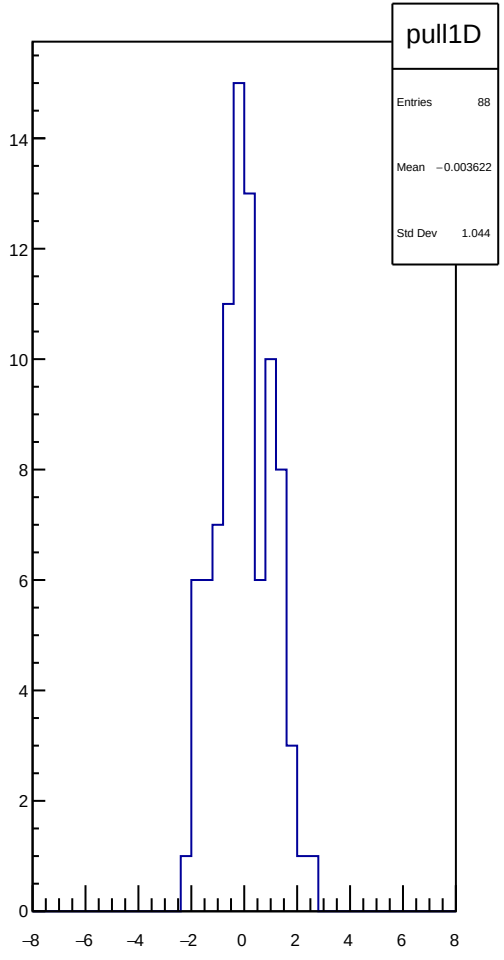

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.395e+05 / 87
p0 7.872e−11 ± 9.231e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

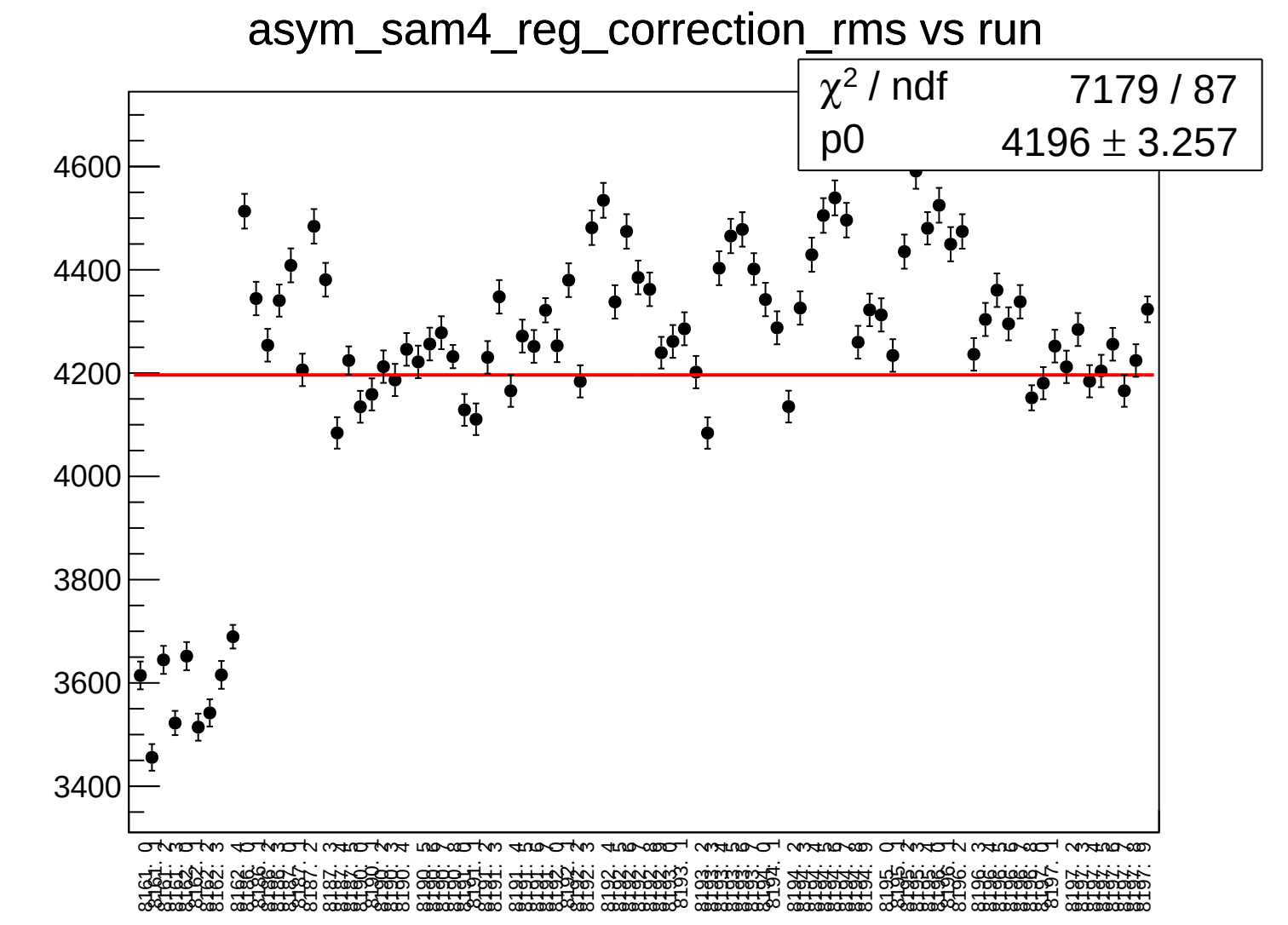

reg_asym_sam4_mean vs run
χ² / ndf 78.72 / 87
p0 859.7 ± 321.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −2625
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

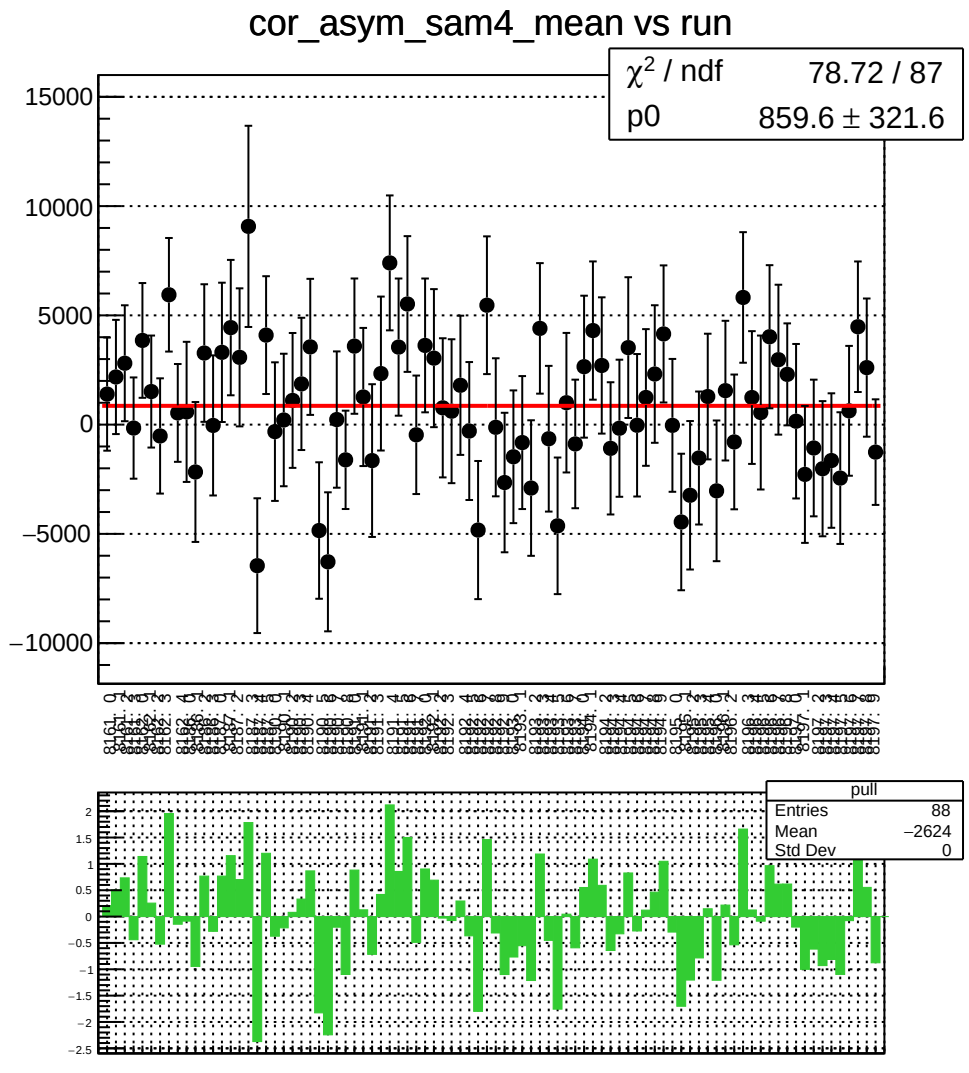

pull1D
Entries 88
Mean 0.001357
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

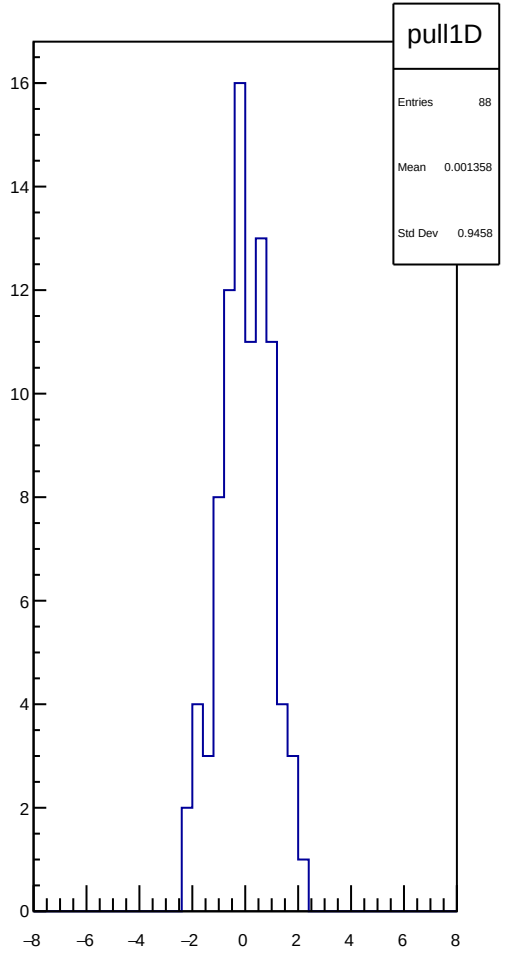

reg_asym_sam4_rms vs run
χ² / ndf 1.1e+04 / 87
p0 292.7 ± 0.2274
450
400
350
300
250

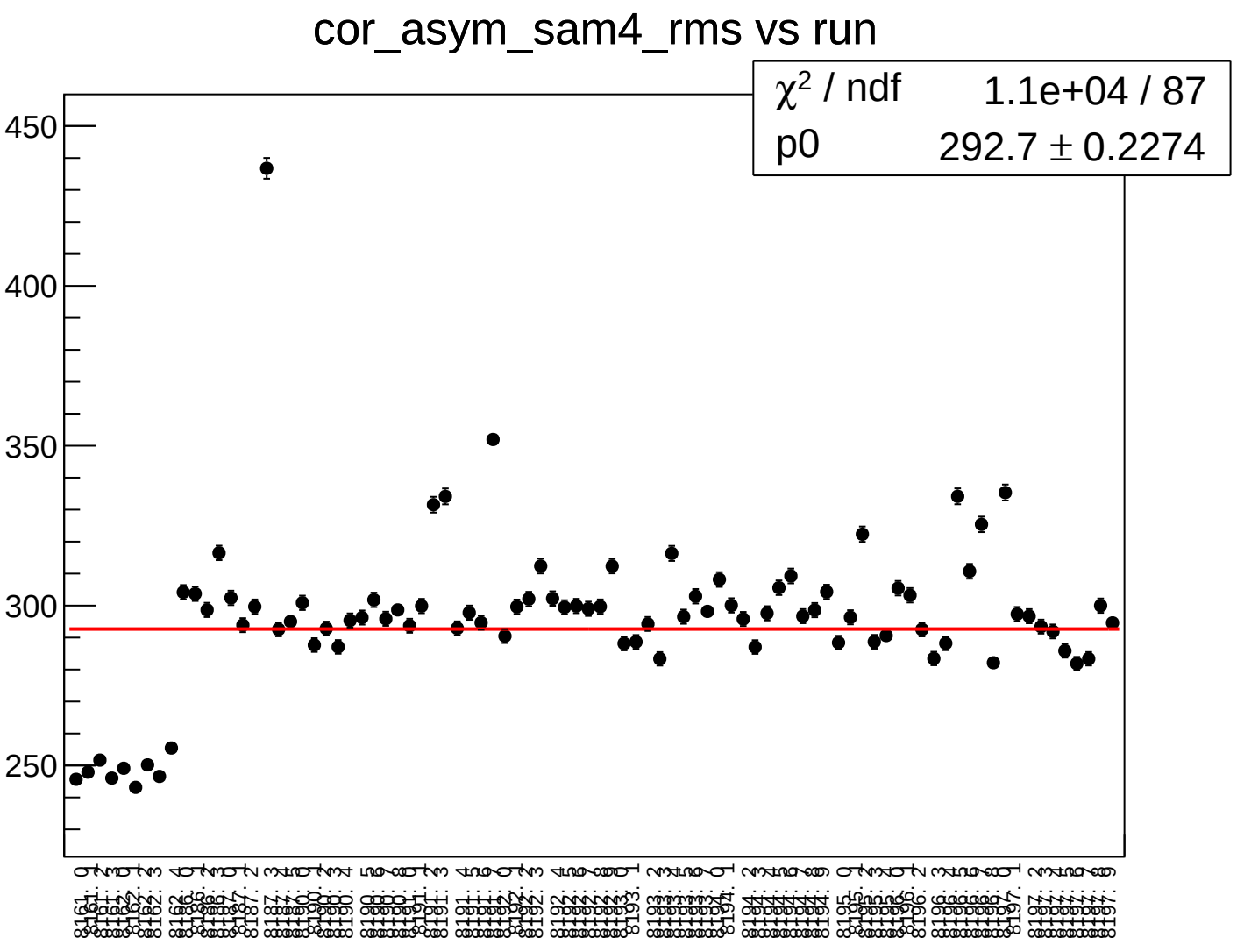

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 95.96 / 87
p0 −2.097e+04 ± 4607
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −766
Std Dev 0
2
1
0
−1
−2

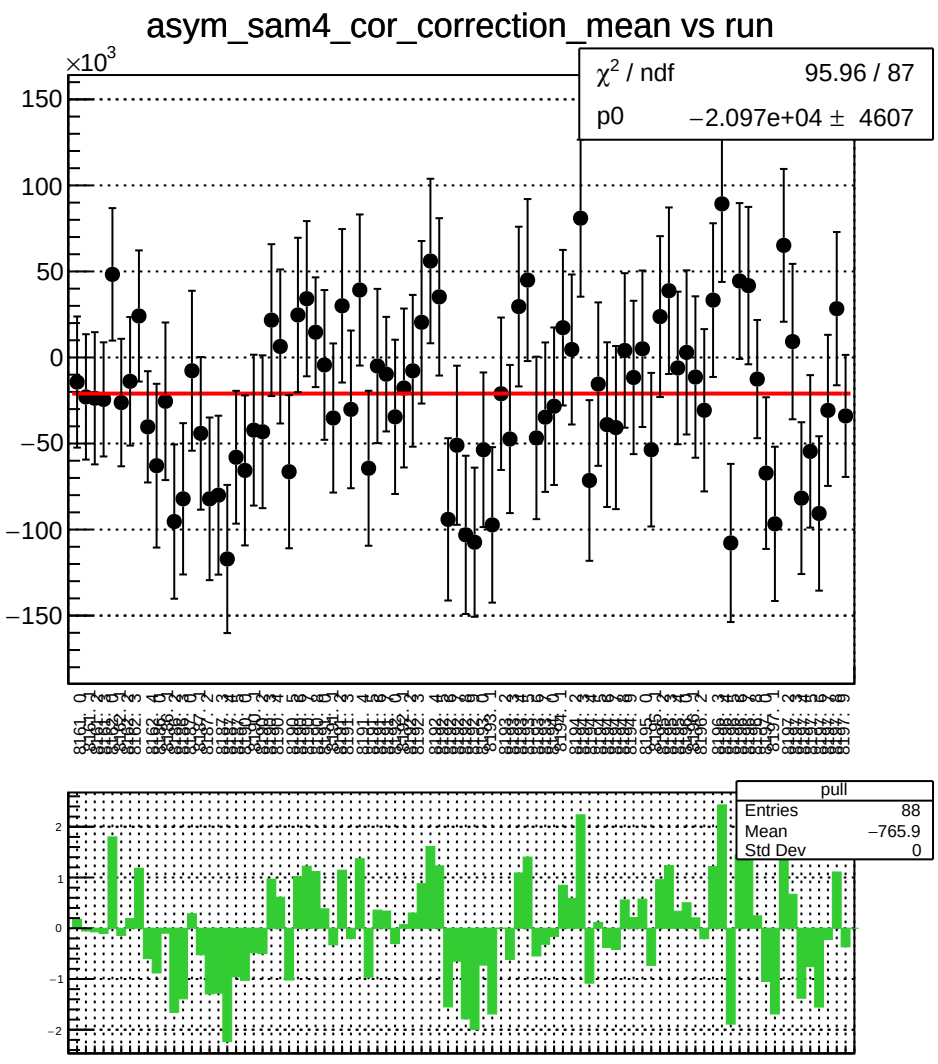

pull1D
Entries 88
Mean −0.003622
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

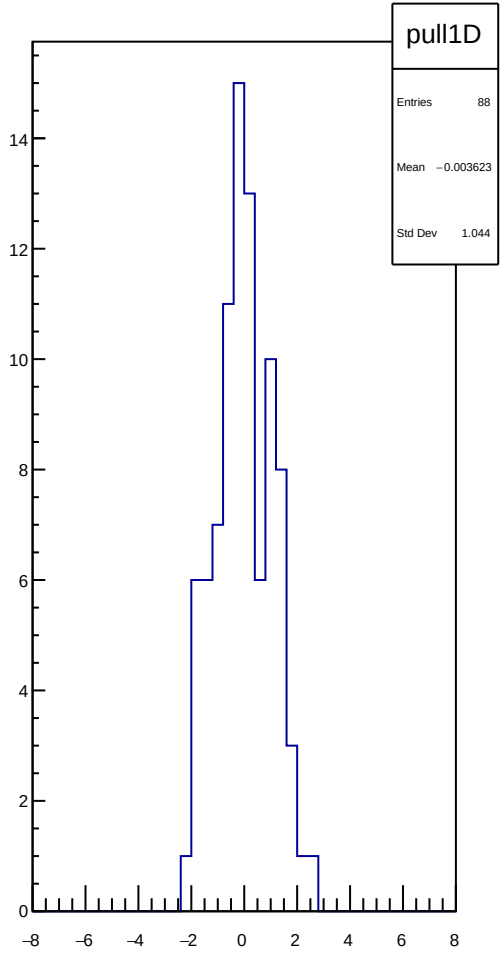

asym_sam4_reg_correction_rms vs run
χ² / ndf 7179 / 87
p0 4196 ± 3.257
4600
4400
4200
4000
3800
3600
3400

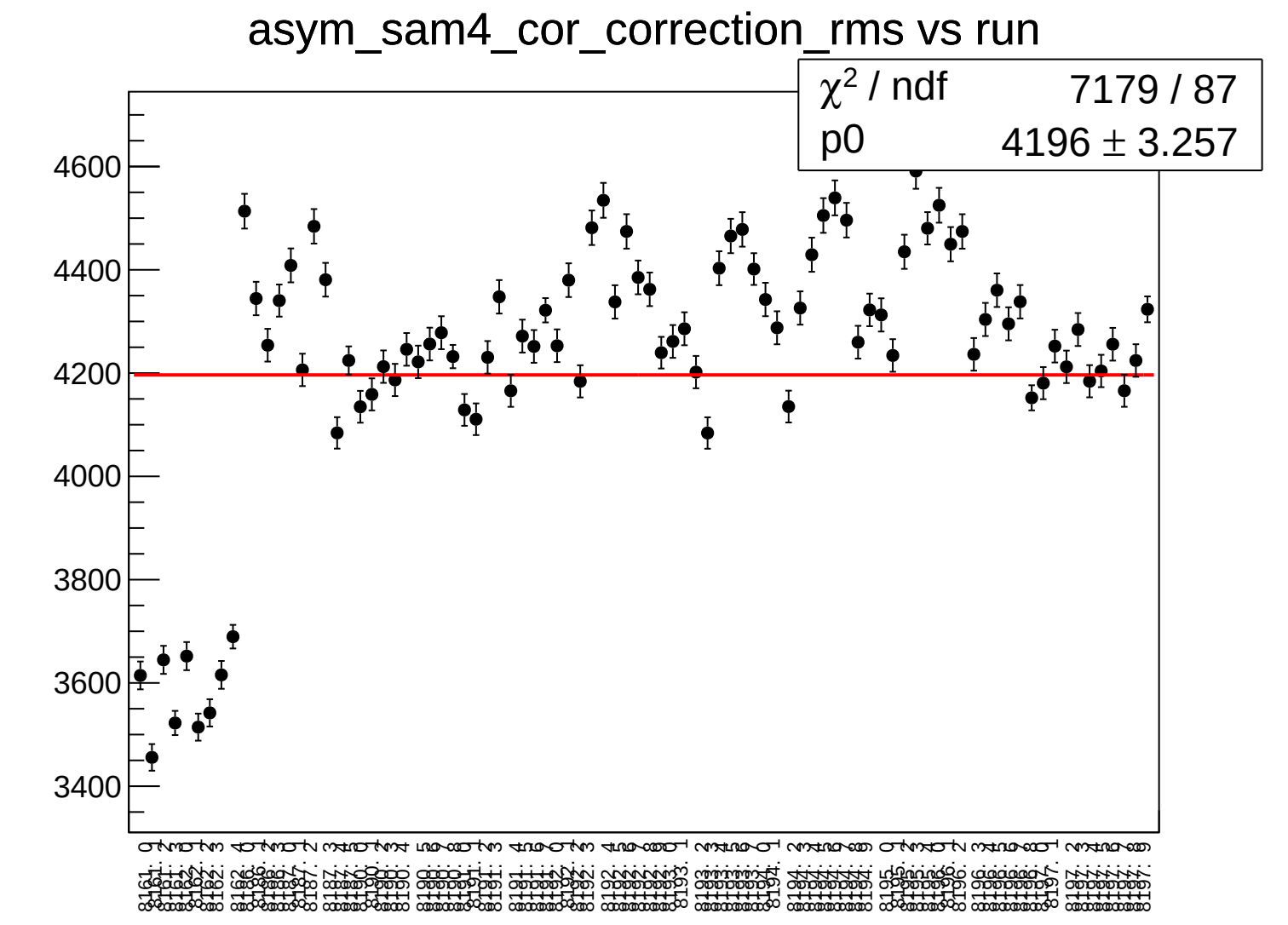

cor_asym_sam4_mean vs run
χ² / ndf 78.72 / 87
p0 859.6 ± 321.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −2624
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

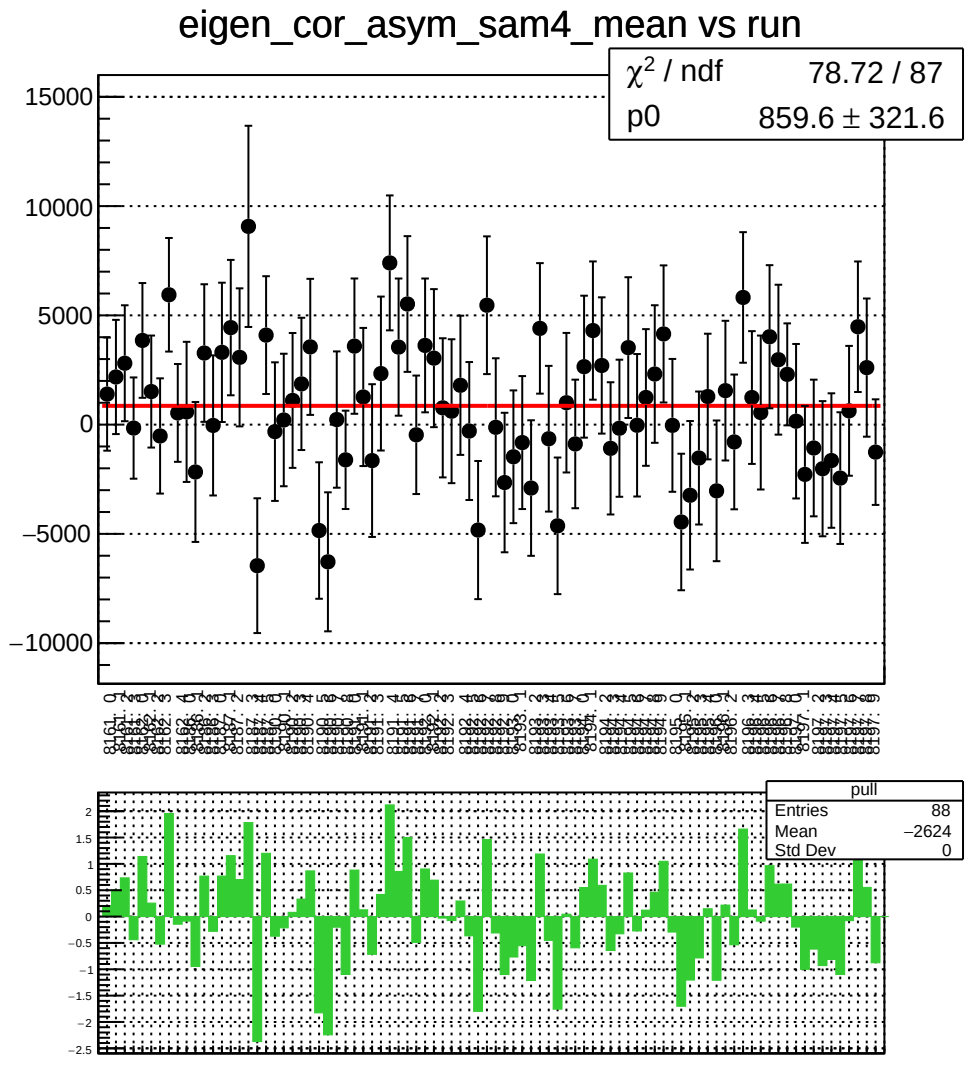

pull1D
Entries 88
Mean 0.001358
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

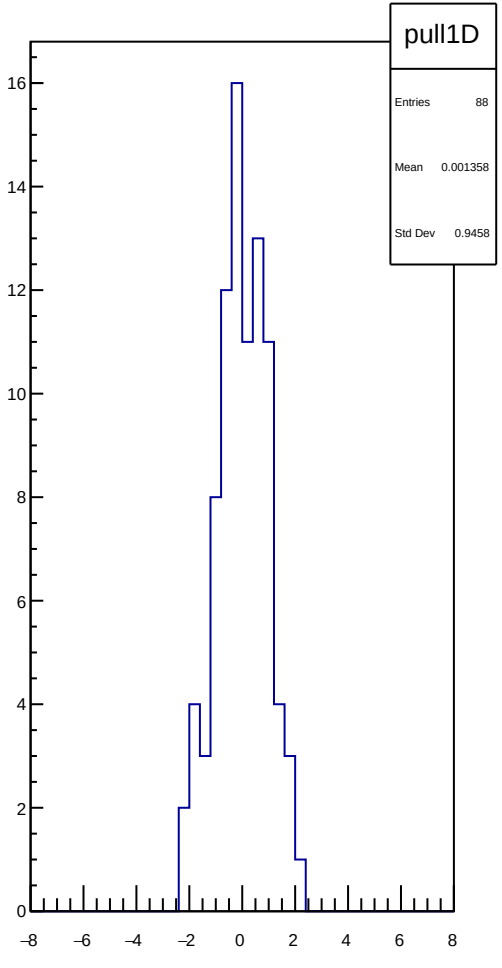

cor_asym_sam4_rms vs run
χ² / ndf 1.1e+04 / 87
p0 292.7 ± 0.2274
450
400
350
300
250

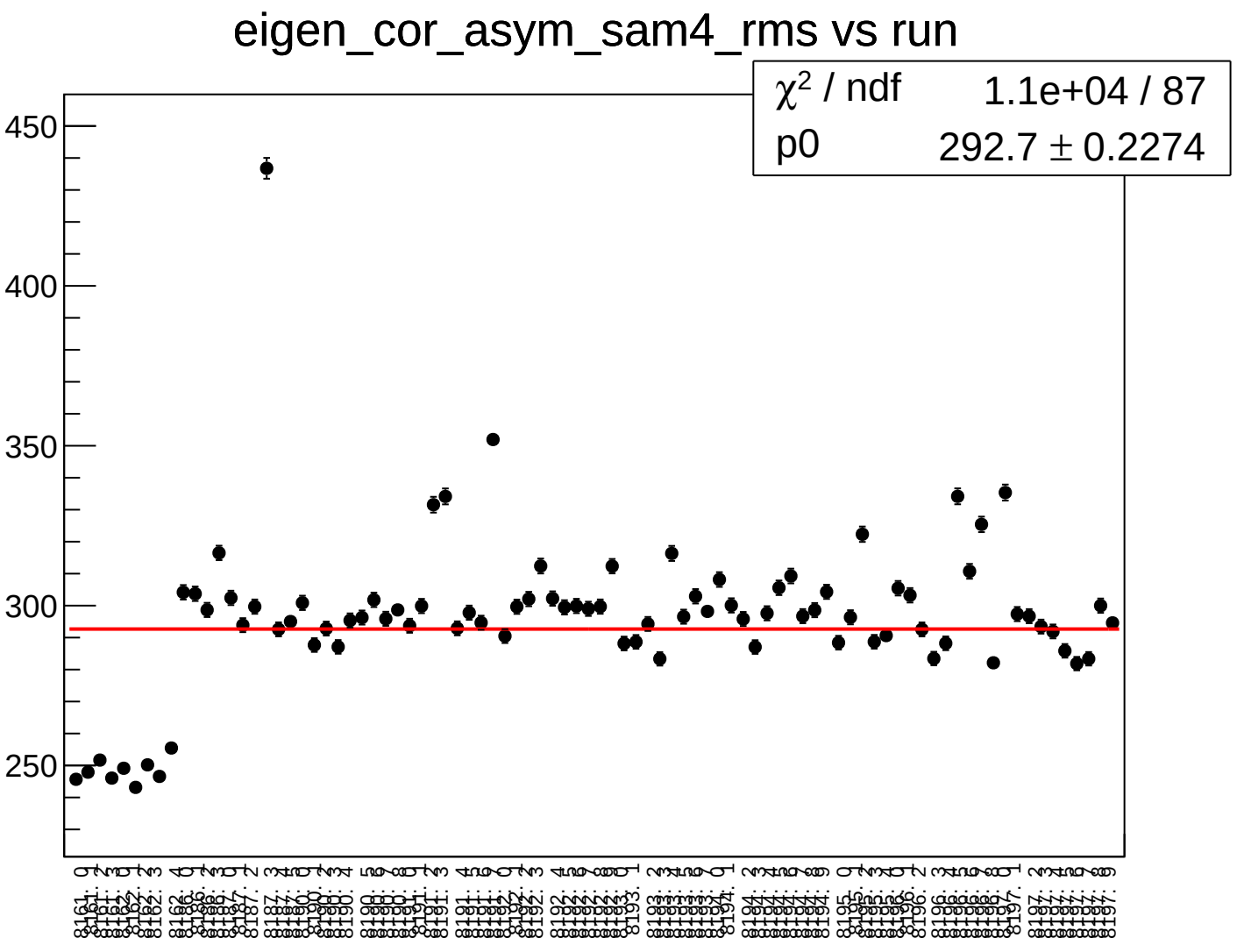

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 95.96 / 87
p0 −2.097e+04 ± 4607
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −765.9
Std Dev 0
2
1
0
−1
−2

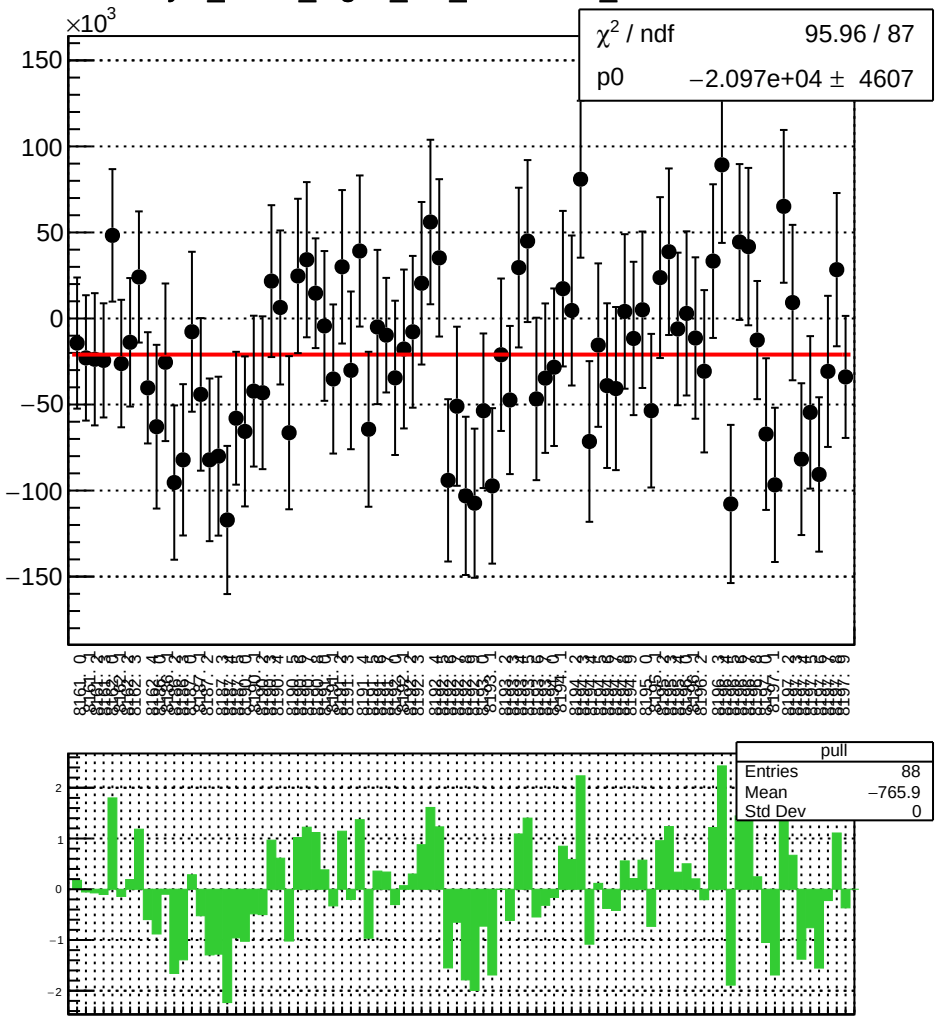

pull1D
Entries 88
Mean −0.003623
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

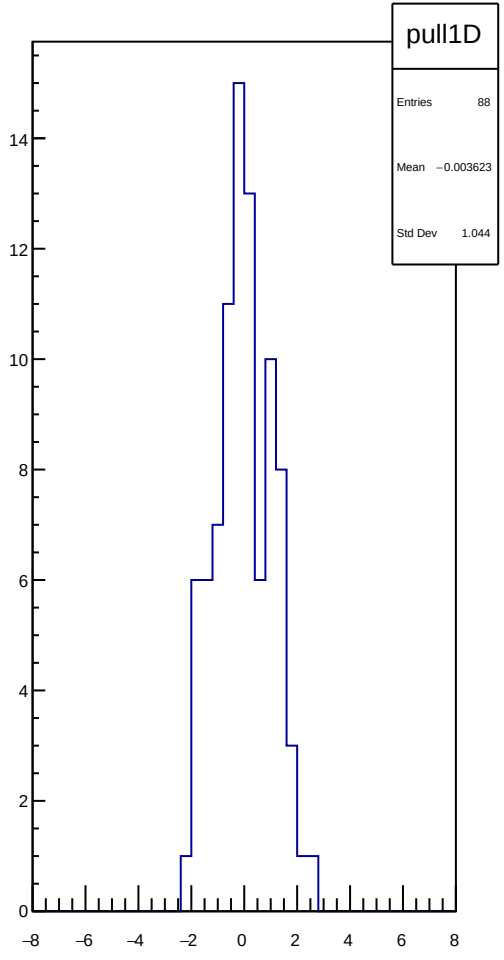

asym_sam4_cor_correction_rms vs run
χ² / ndf 7179 / 87
p0 4196 ± 3.257
4600
4400
4200
4000
3800
3600
3400

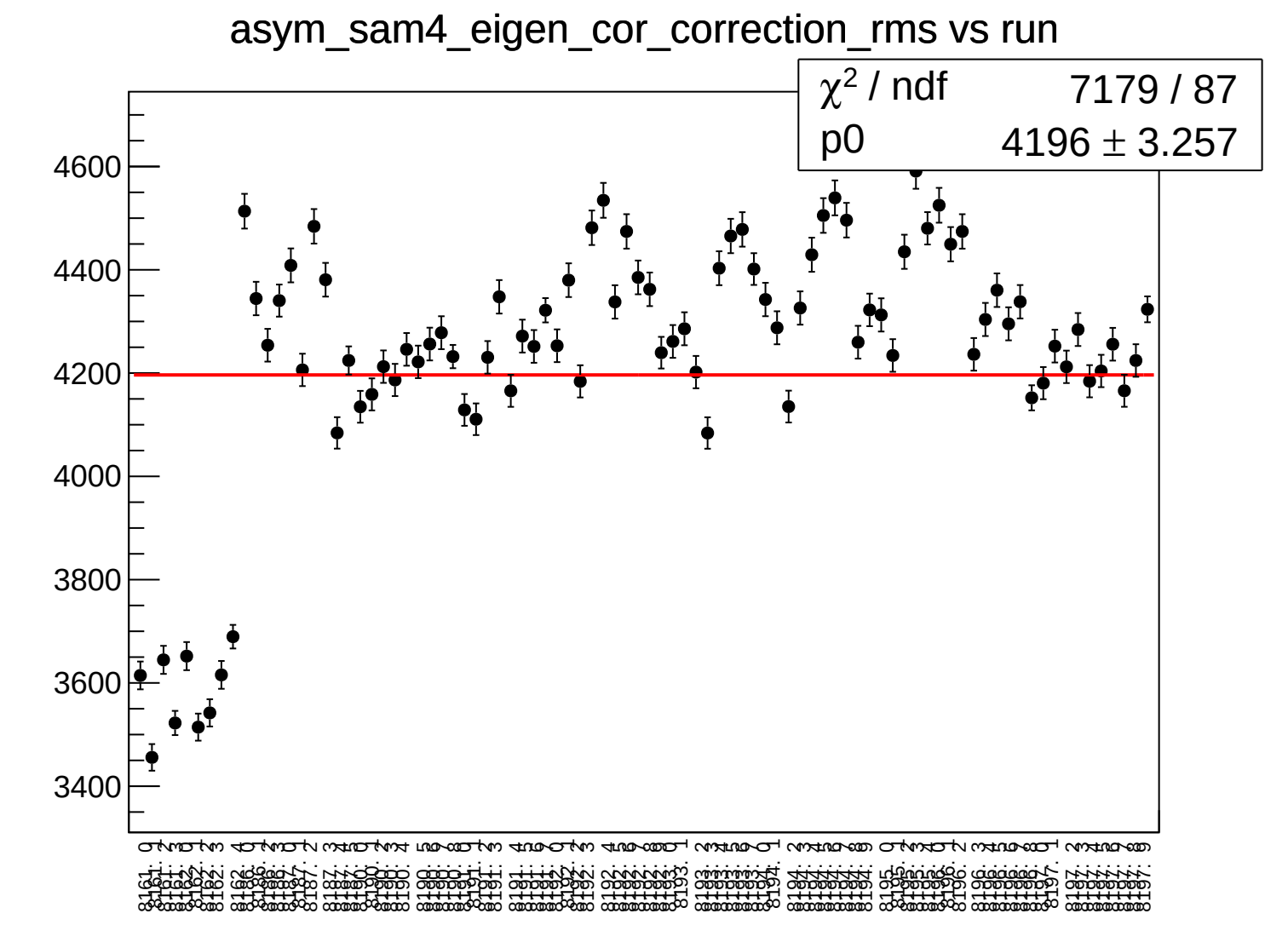

eigen_cor_asym_sam4_mean vs run
χ² / ndf 78.72 / 87
p0 859.6 ± 321.6
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −2624
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

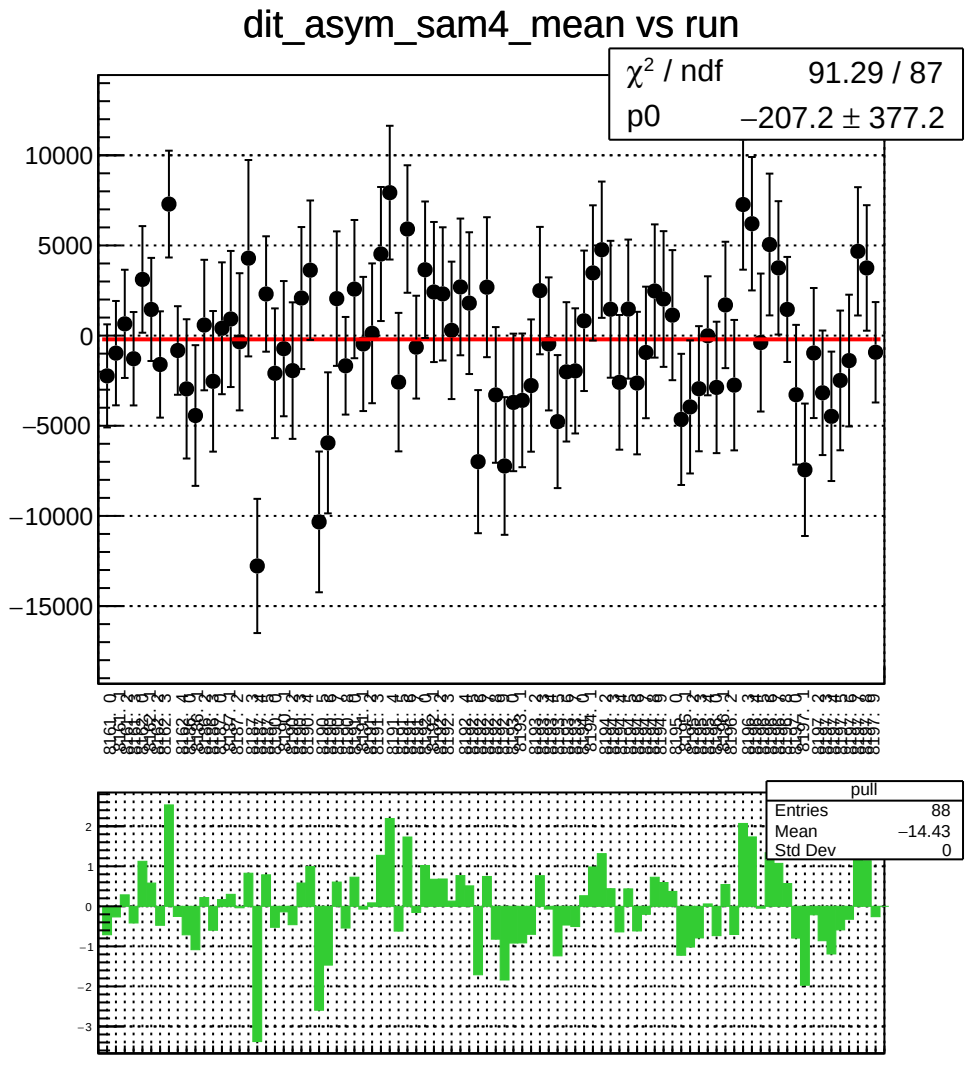

pull1D
Entries 88
Mean 0.001358
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

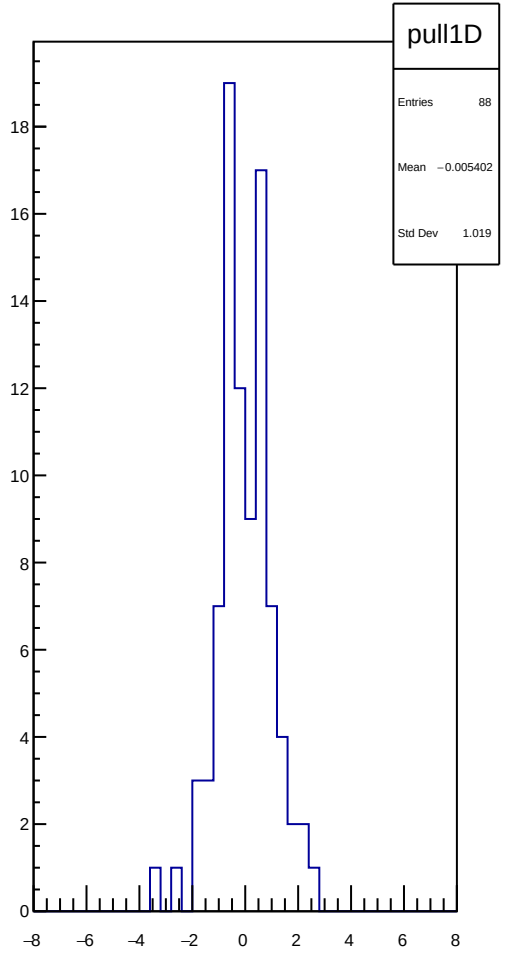

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1.1e+04 / 87
p0 292.7 ± 0.2274
450
400
350
300
250

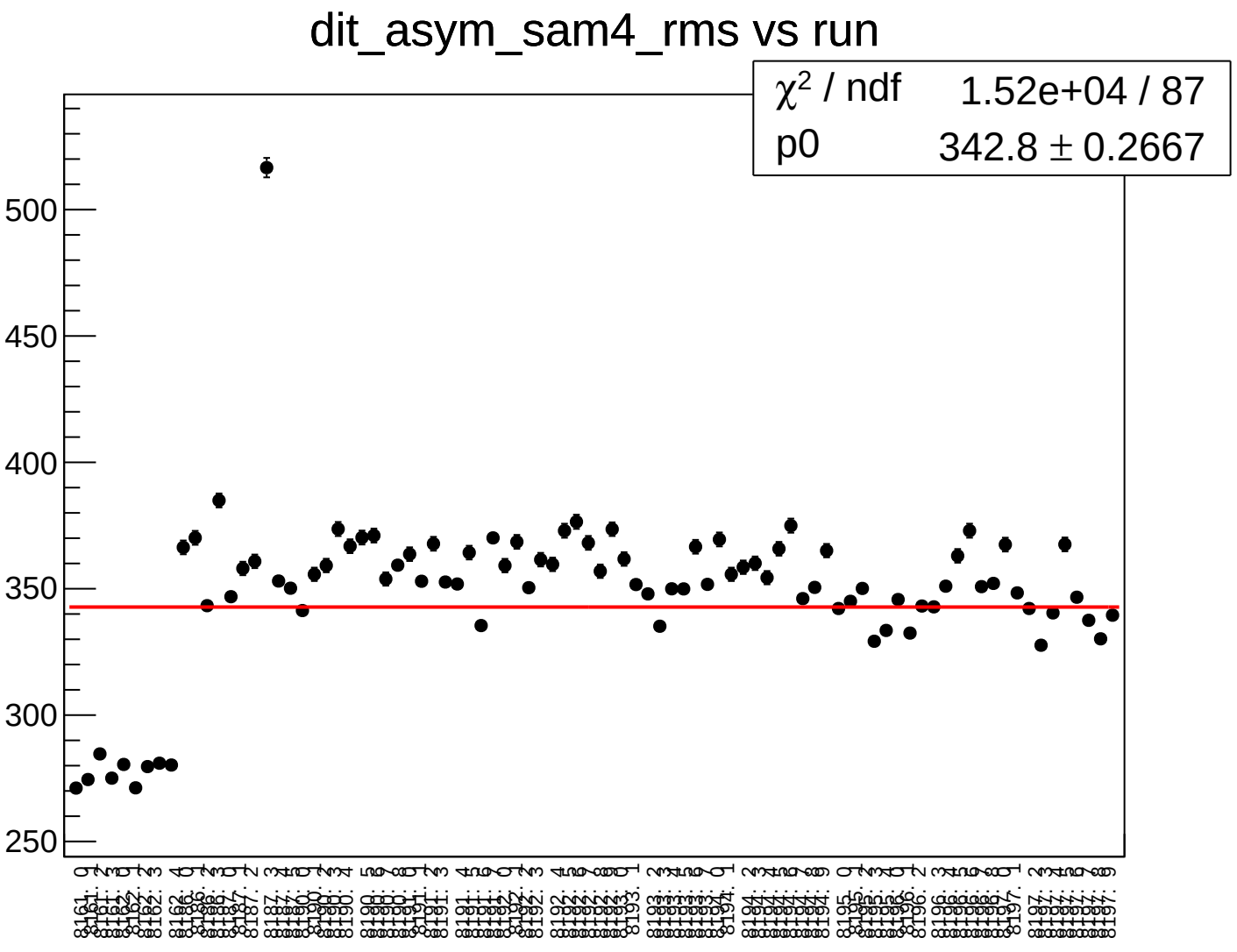

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.96 / 87
p0 −2.097e+04 ± 4607
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −765.9
Std Dev 0
2
1
0
−1
−2

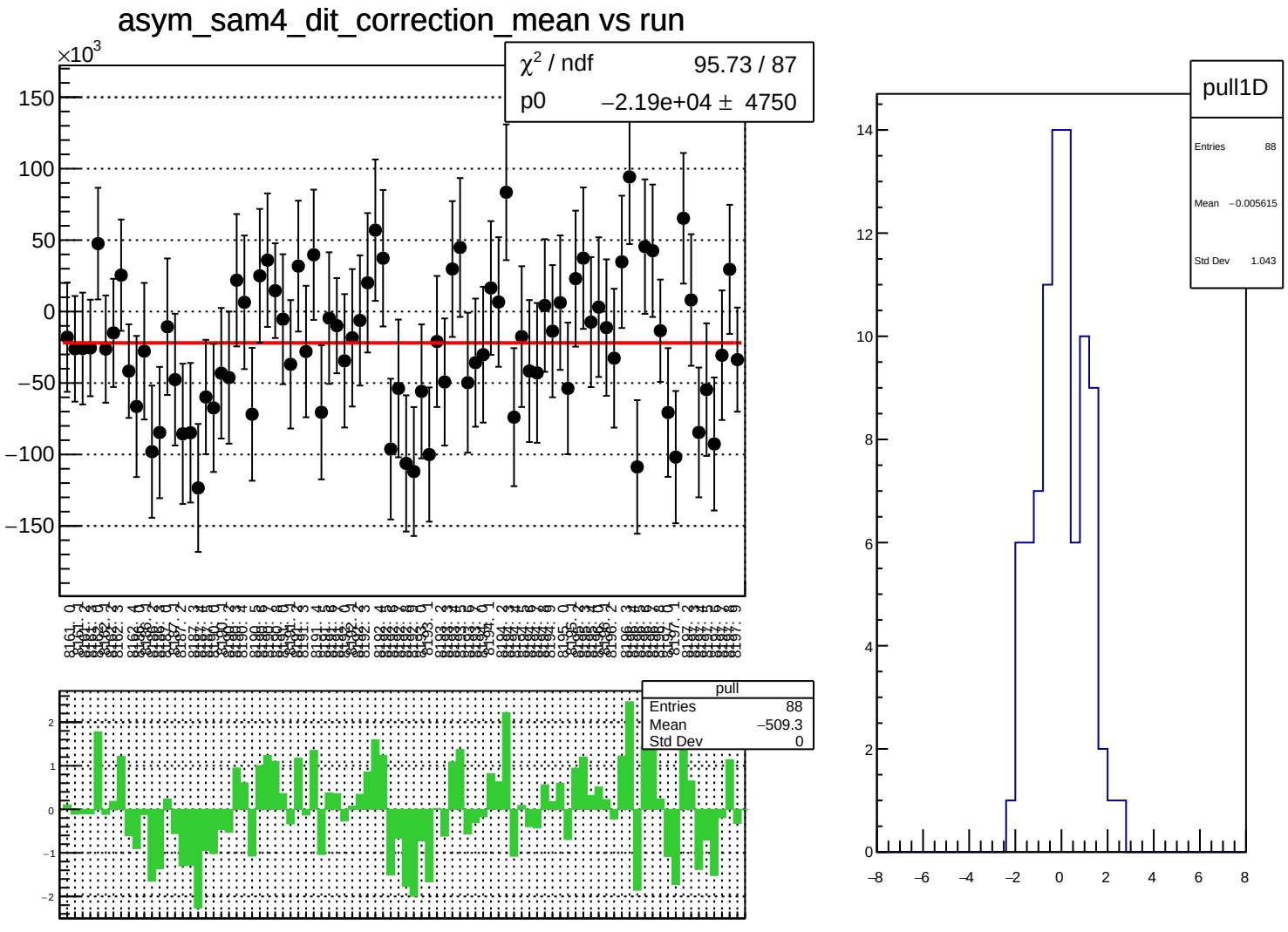

pull1D
Entries 88
Mean −0.003623
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

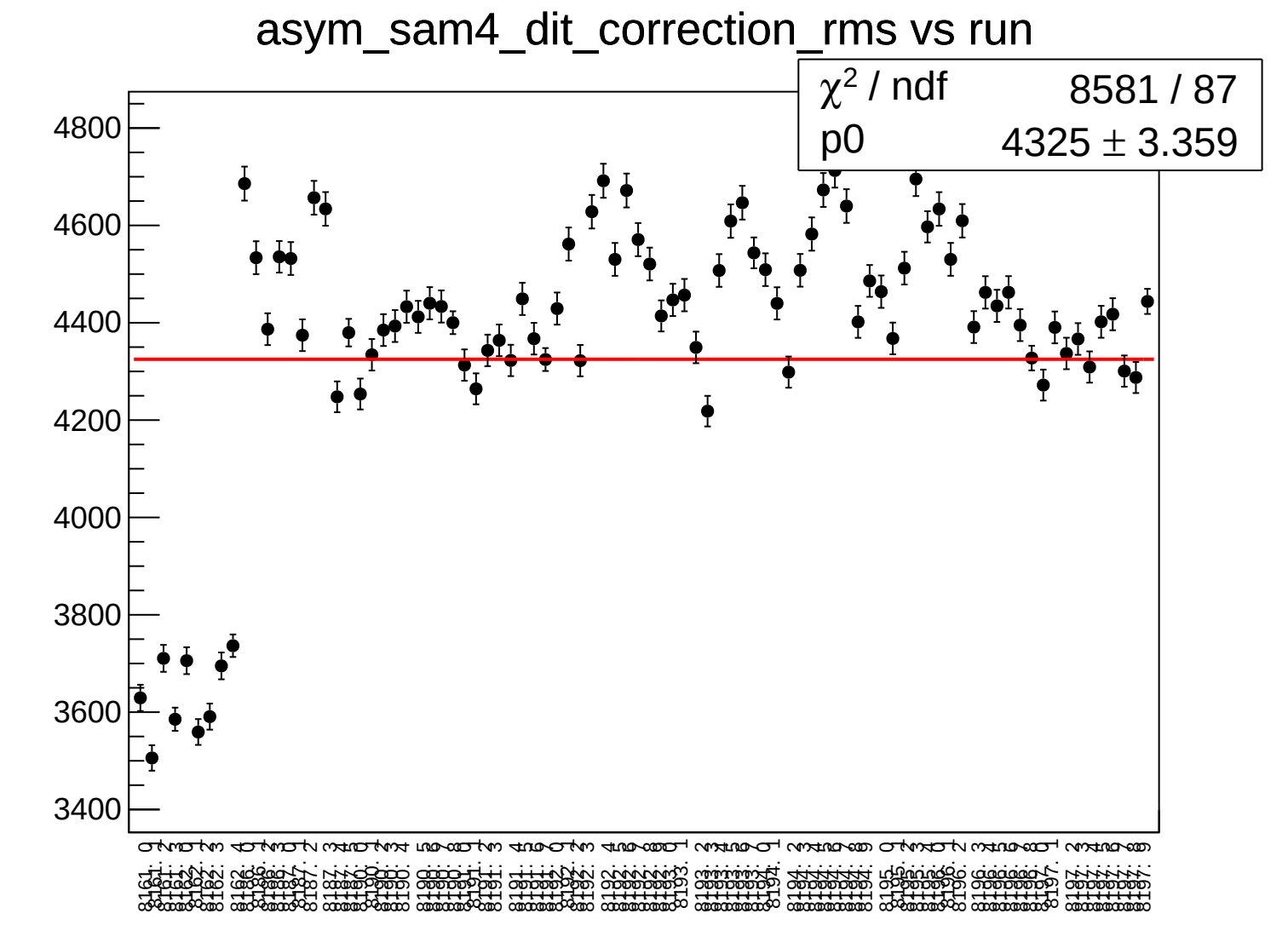

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 7179 / 87
p0 4196 ± 3.257
4600
4400
4200
4000
3800
3600
3400

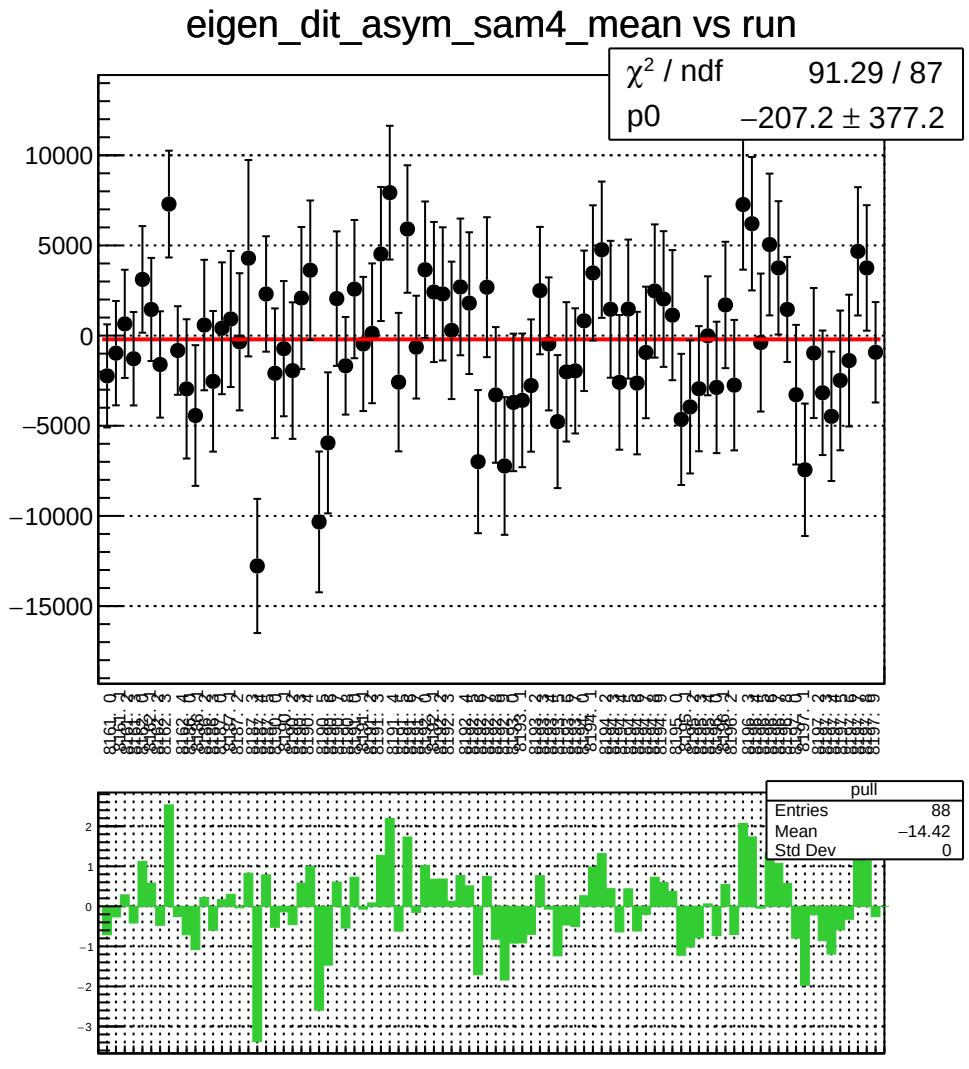

dit_asym_sam4_mean vs run
χ² / ndf 91.29 / 87
p0 −207.2 ± 377.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −14.43
Std Dev 0
2
1
0
−1
−2
−3

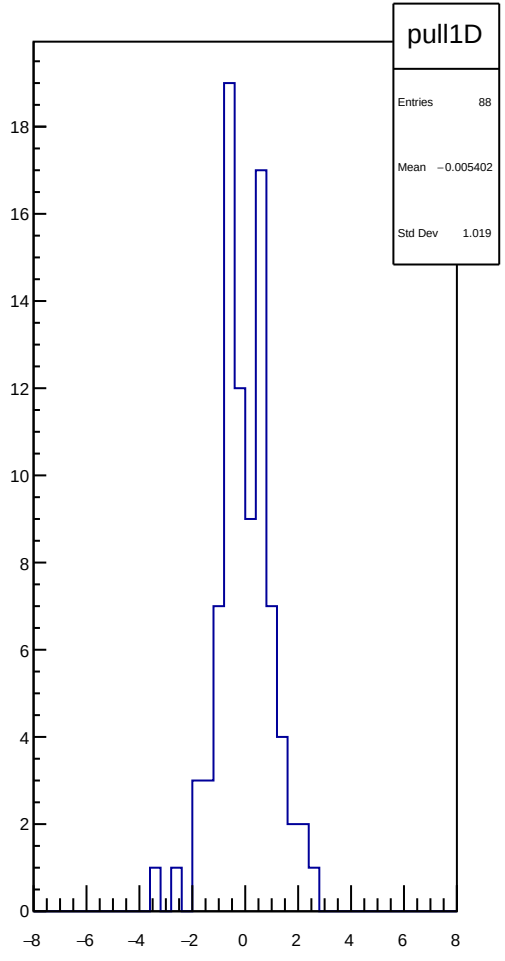

pull1D
Entries 88
Mean −0.005402
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

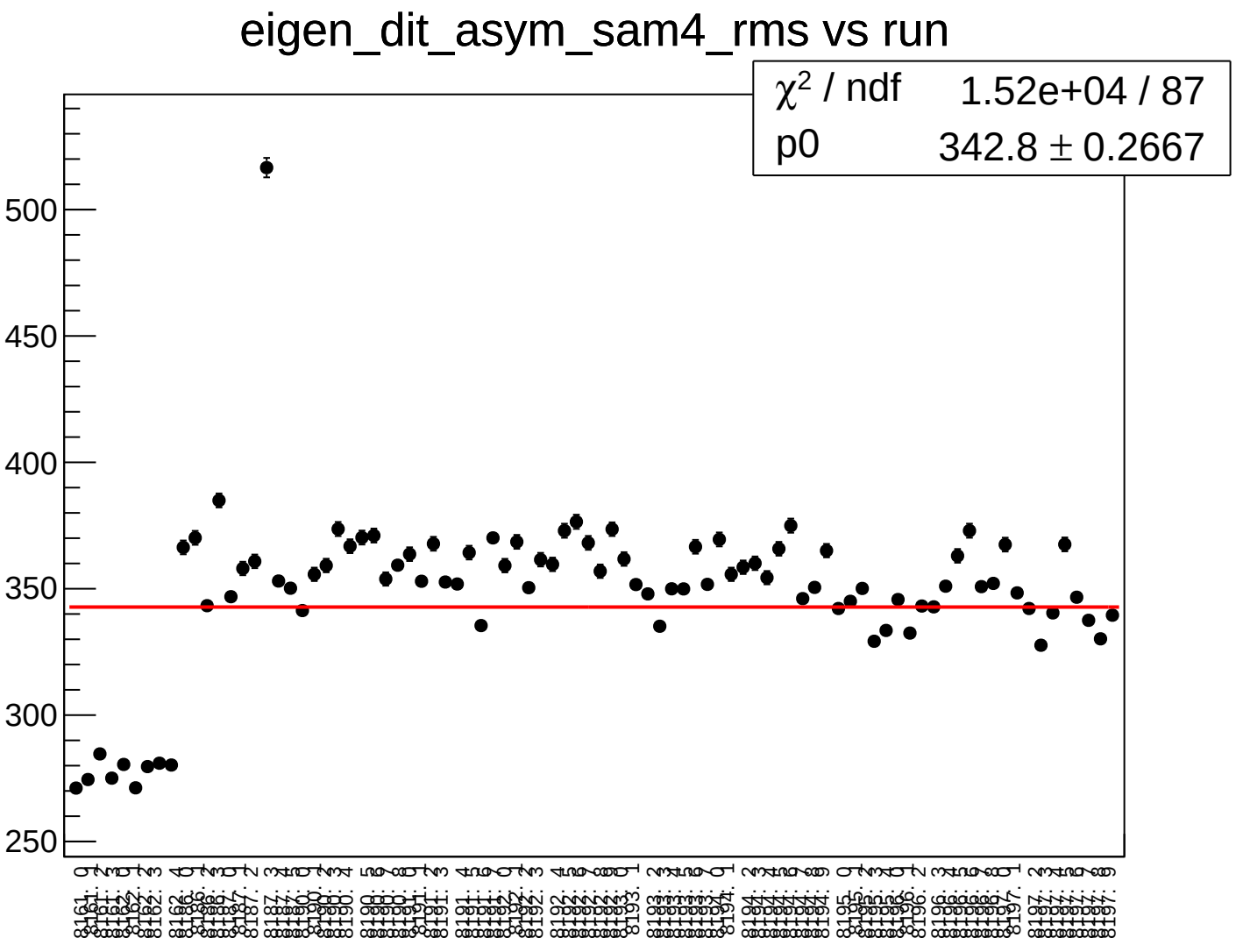

dit_asym_sam4_rms vs run
χ² / ndf 1.52e+04 / 87
p0 342.8 ± 0.2667
500
450
400
350
300
250

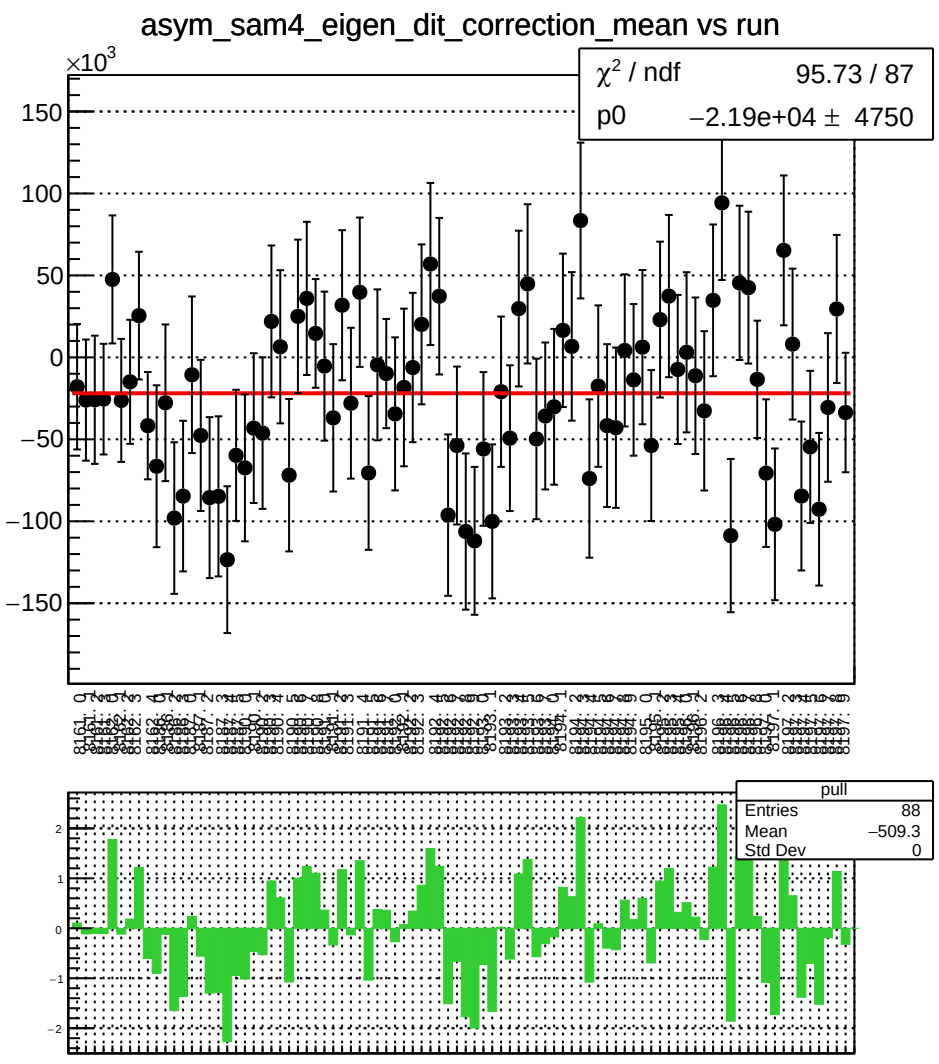

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 95.73 / 87
p0 −2.19e+04 ± 4750
pull
Entries 88
Mean −509.3
Std Dev 0
pull1D
Entries 88
Mean −0.005615
Std Dev 1.043

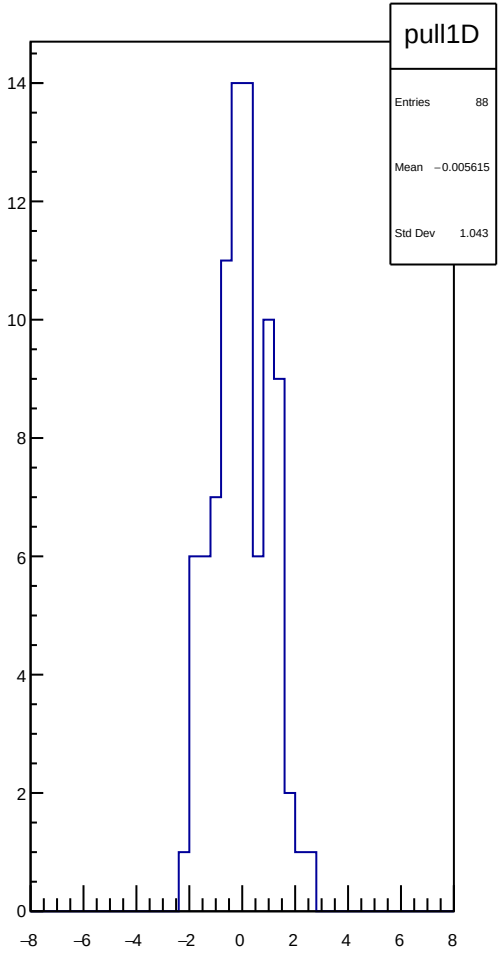

asym_sam4_dit_correction_rms vs run
χ² / ndf 8581 / 87
p0 4325 ± 3.359
4800
4600
4400
4200
4000
3800
3600
3400

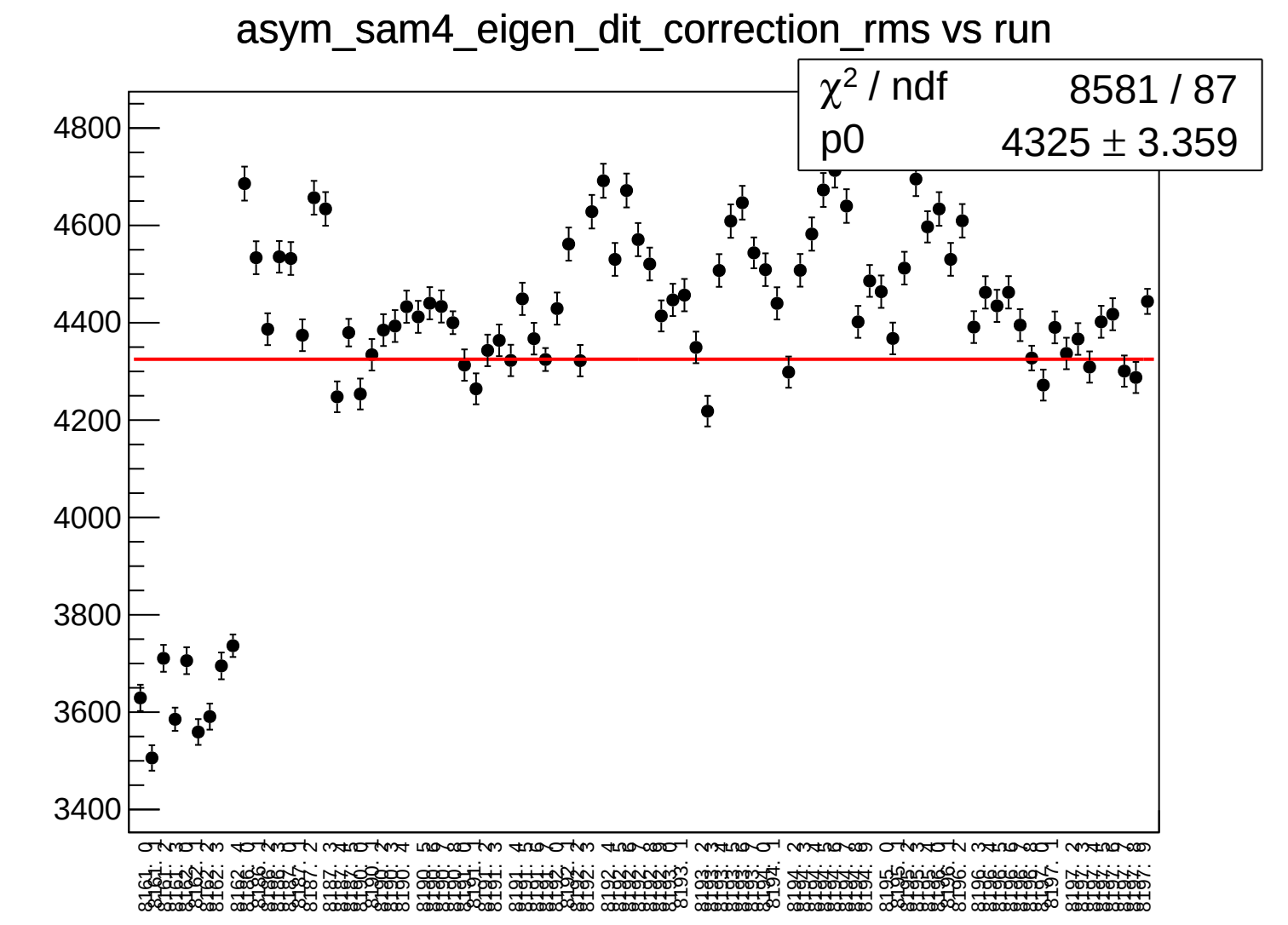

eigen_dit_asym_sam4_mean vs run
χ² / ndf 91.29 / 87
p0 −207.2 ± 377.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −14.42
Std Dev 0
2
1
0
−1
−2
−3

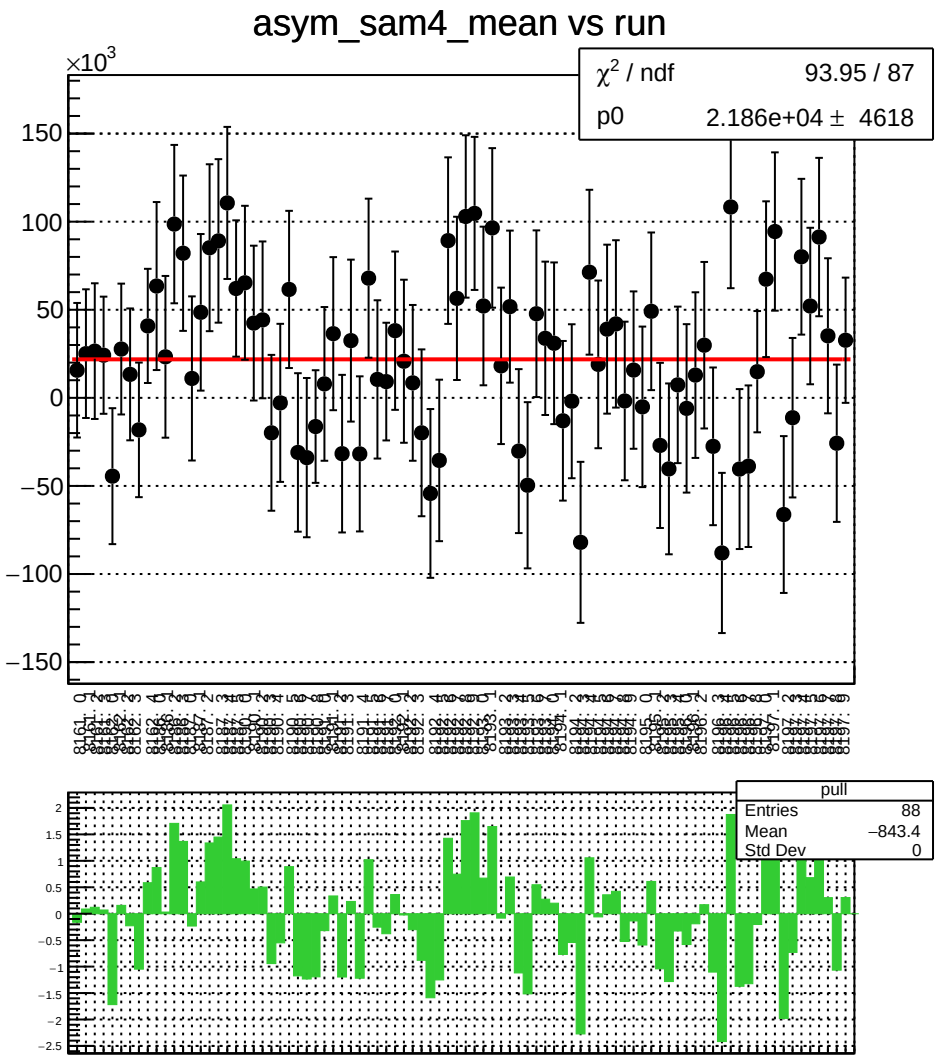

pull1D
Entries 88
Mean −0.005402
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

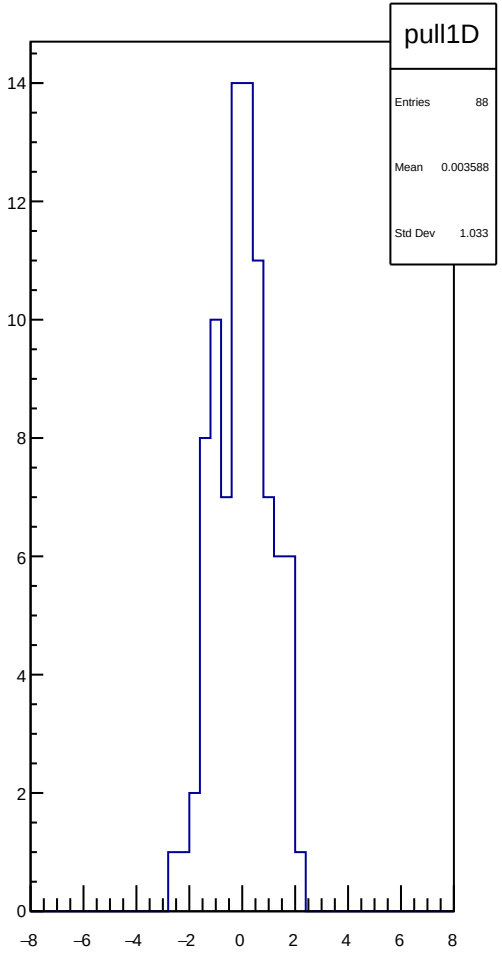

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1.52e+04 / 87
p0 342.8 ± 0.2667
500
450
400
350
300
250

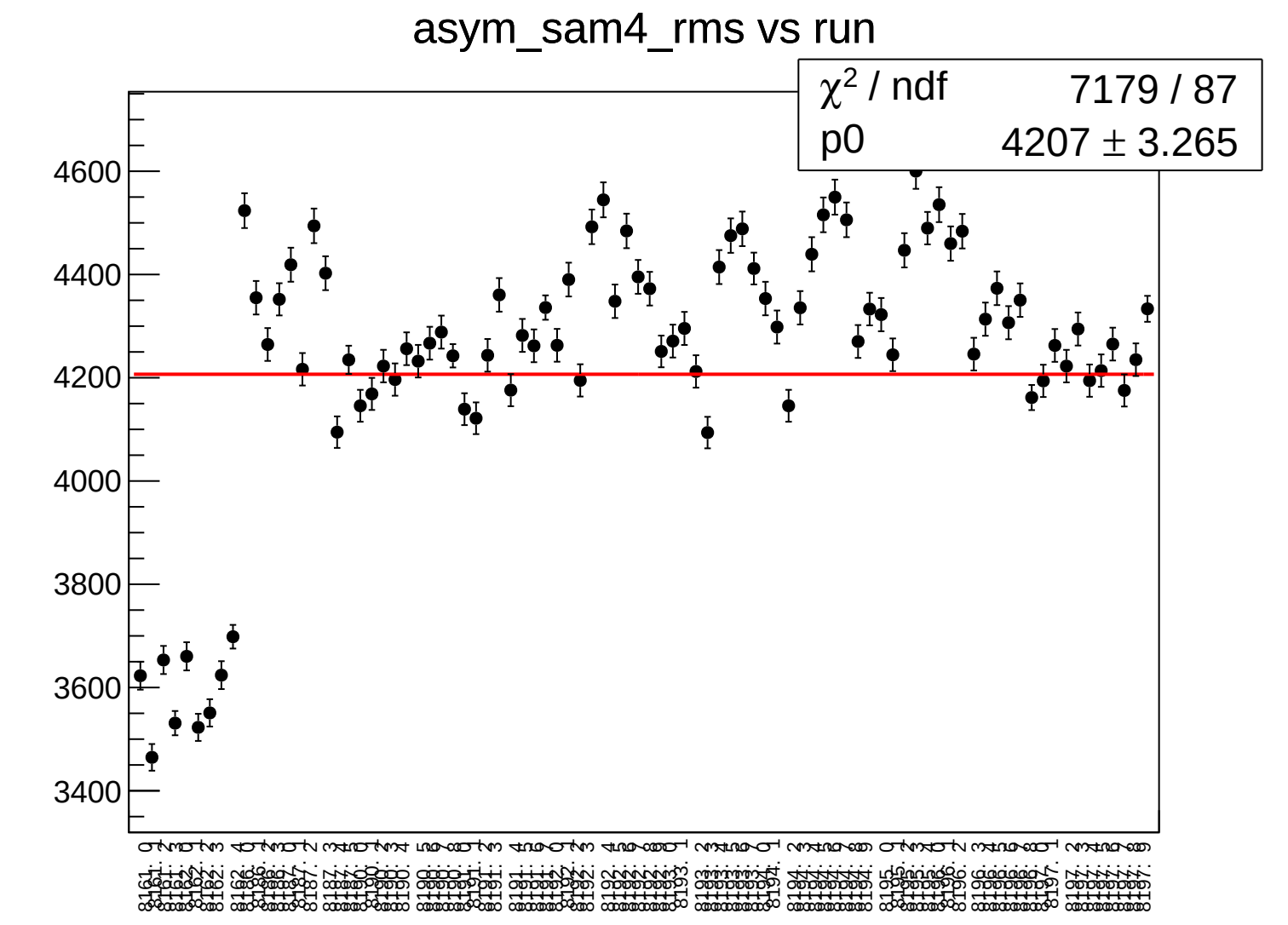

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.73 / 87
p0 −2.19e+04 ± 4750
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −509.3
Std Dev 0
2
1
0
−1
−2

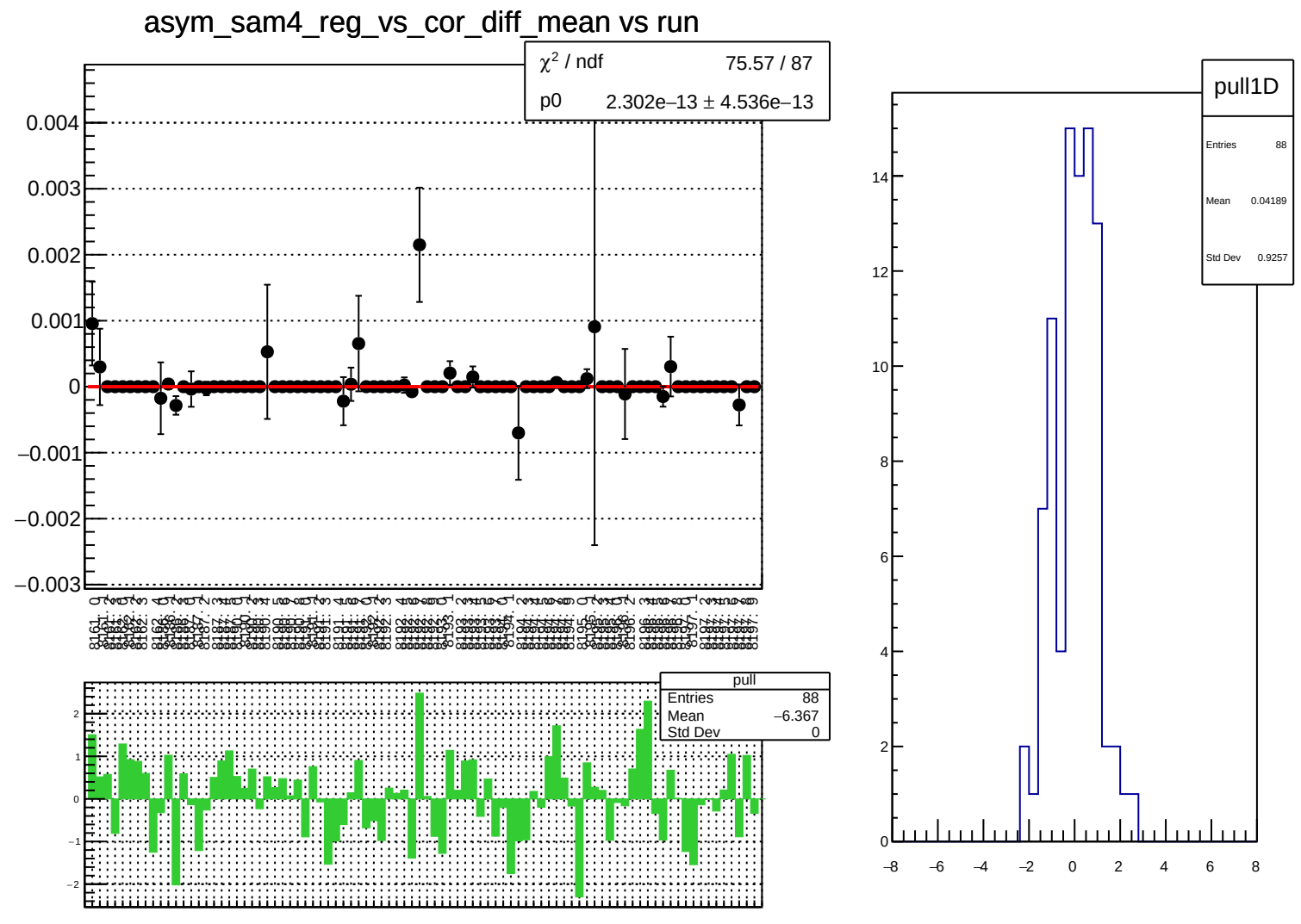

pull1D
Entries 88
Mean −0.005615
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

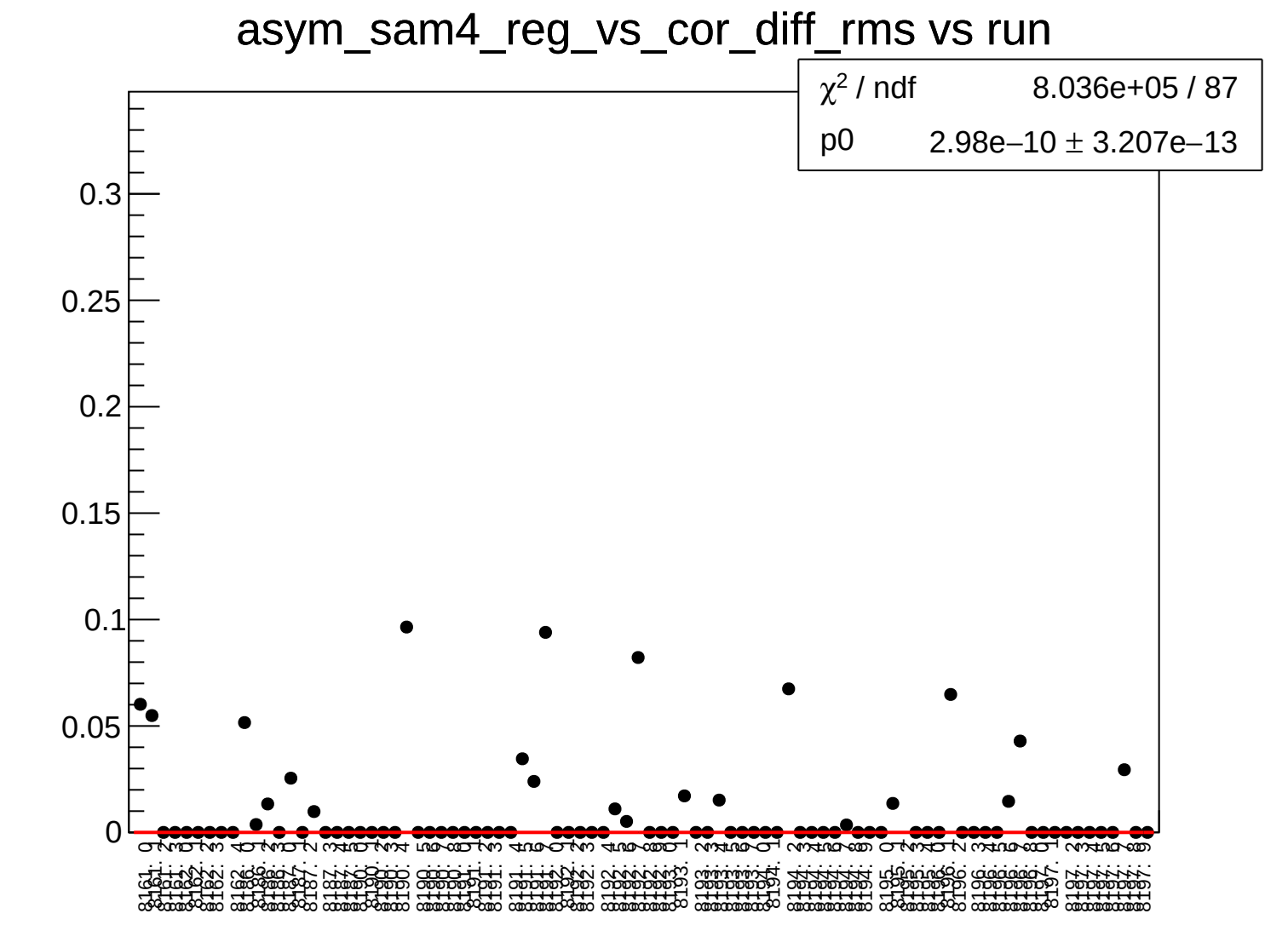

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 8581 / 87
p0 4325 ± 3.359
4800
4600
4400
4200
4000
3800
3600
3400

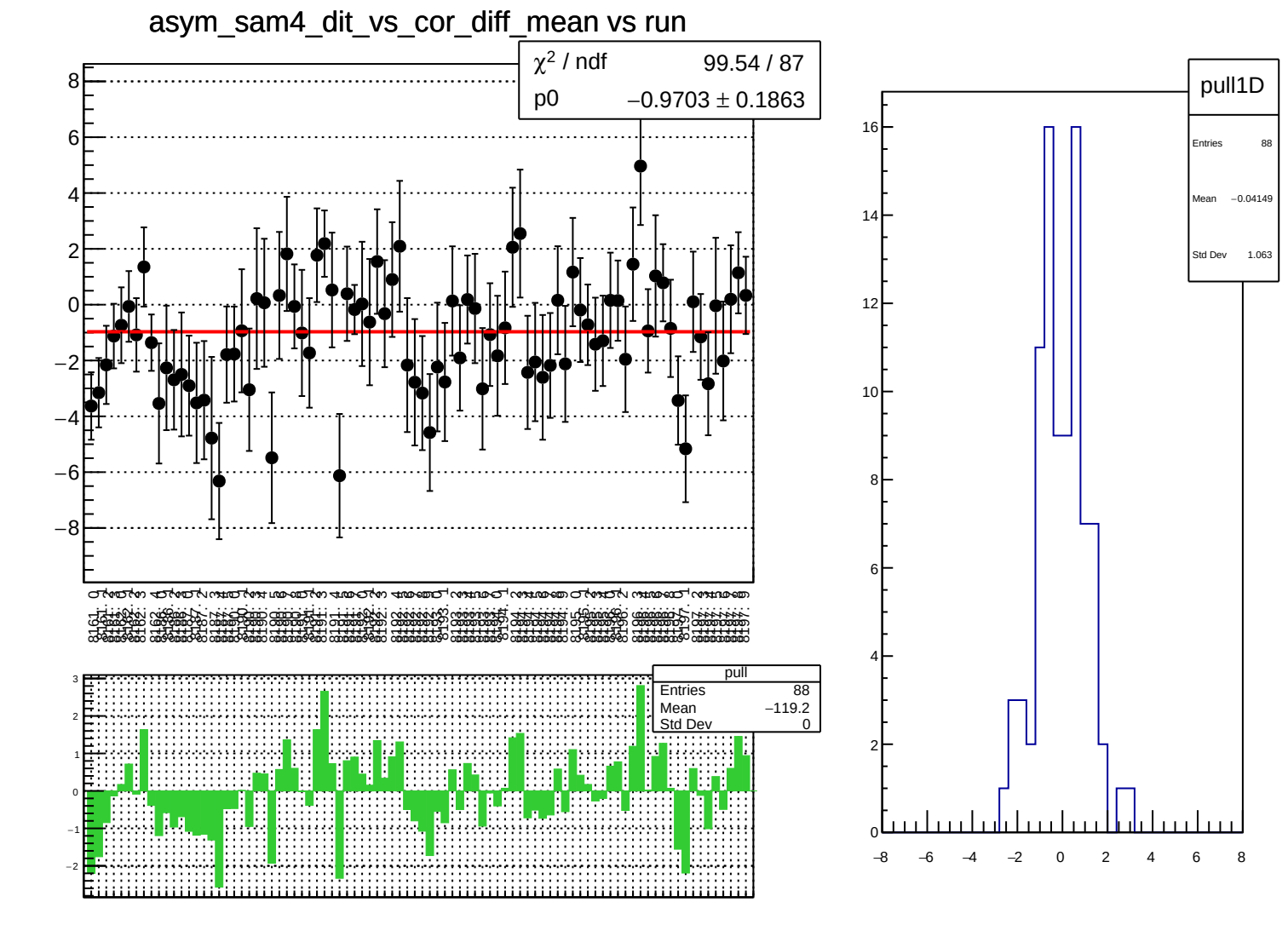

asym_sam4_mean vs run
×10^3
χ² / ndf 93.95 / 87
p0 2.186e+04 ± 4618
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −843.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

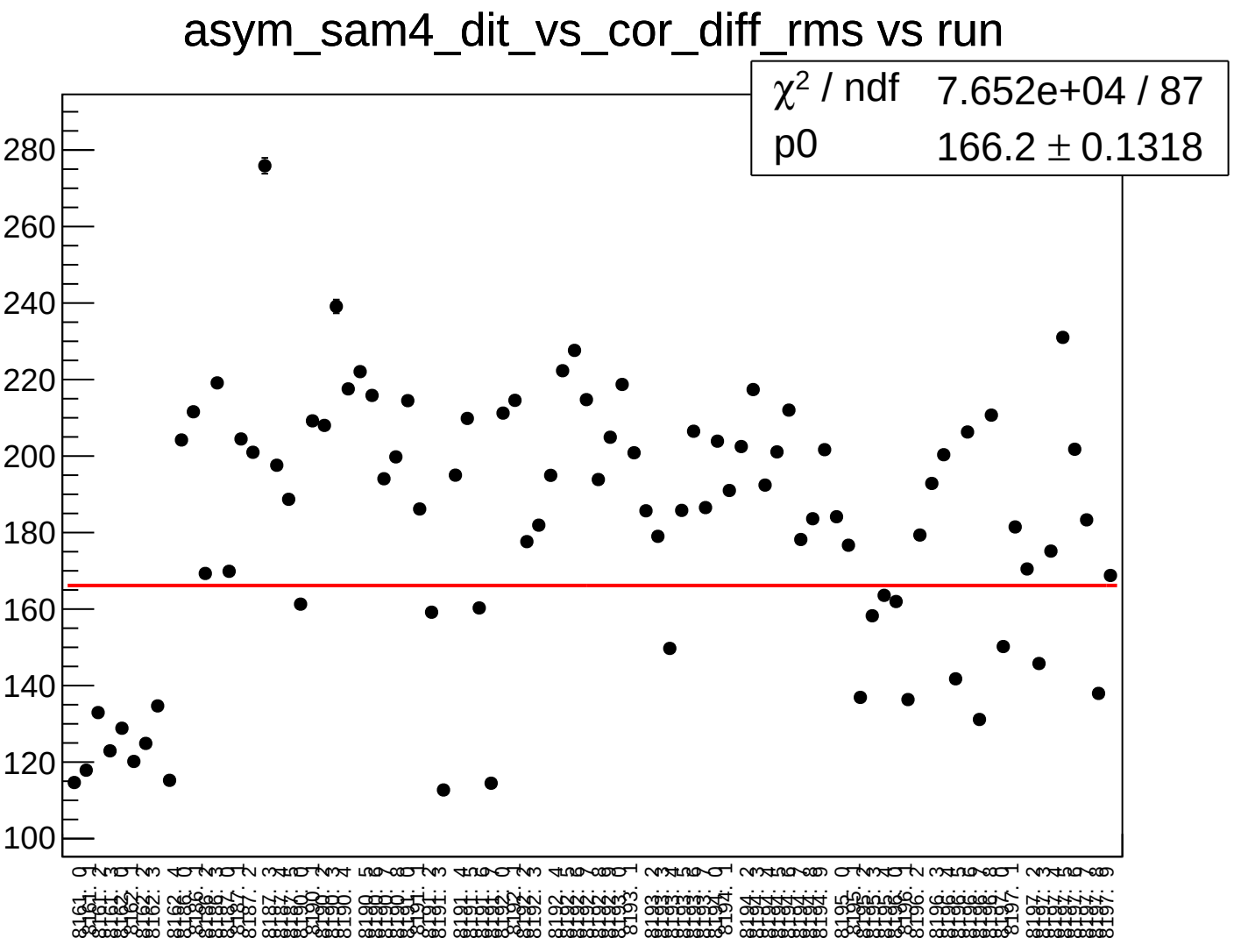

pull1D
Entries 88
Mean 0.003588
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

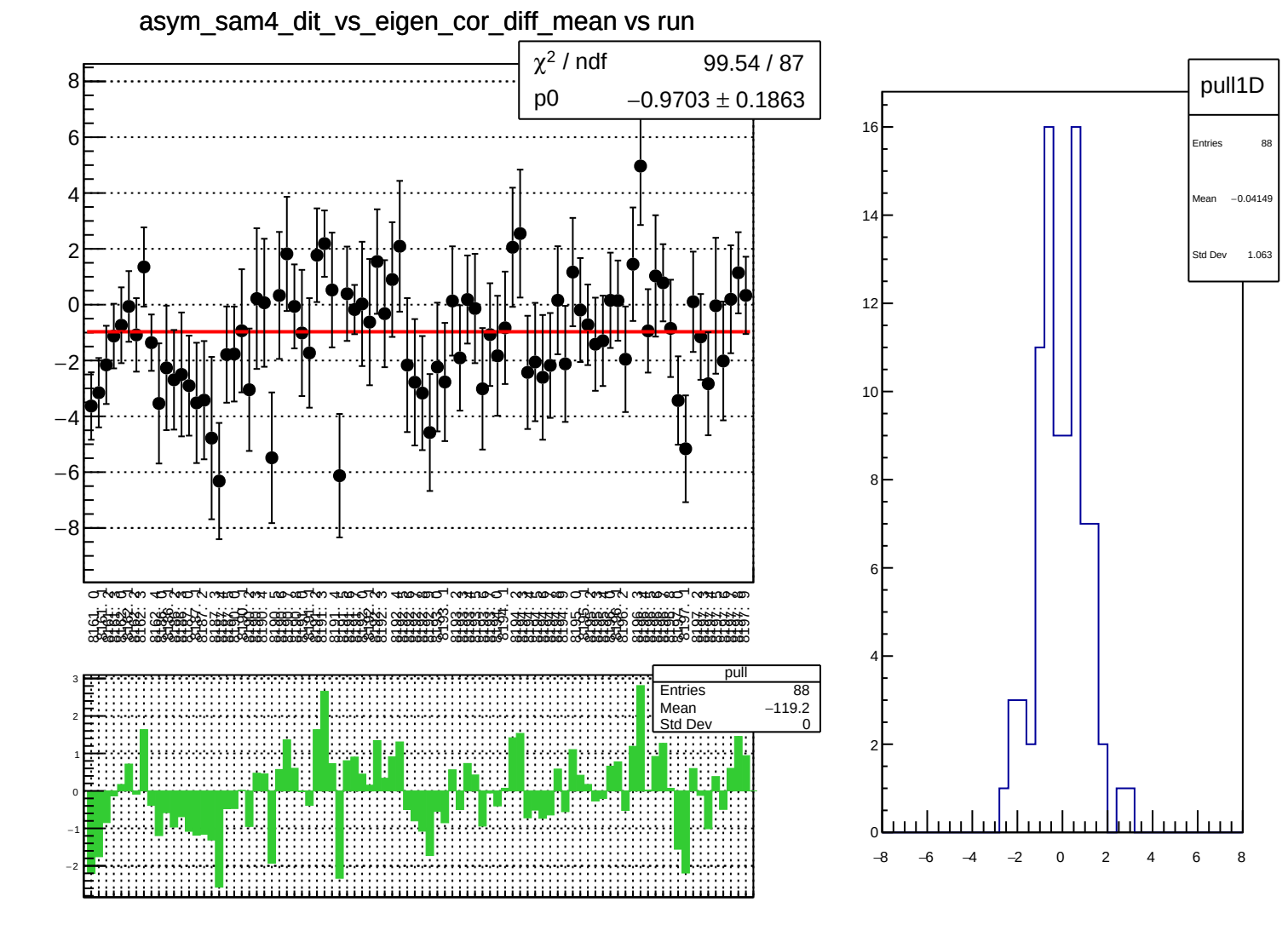

asym_sam4_rms vs run
χ² / ndf 7179 / 87
p0 4207 ± 3.265
4600
4400
4200
4000
3800
3600
3400

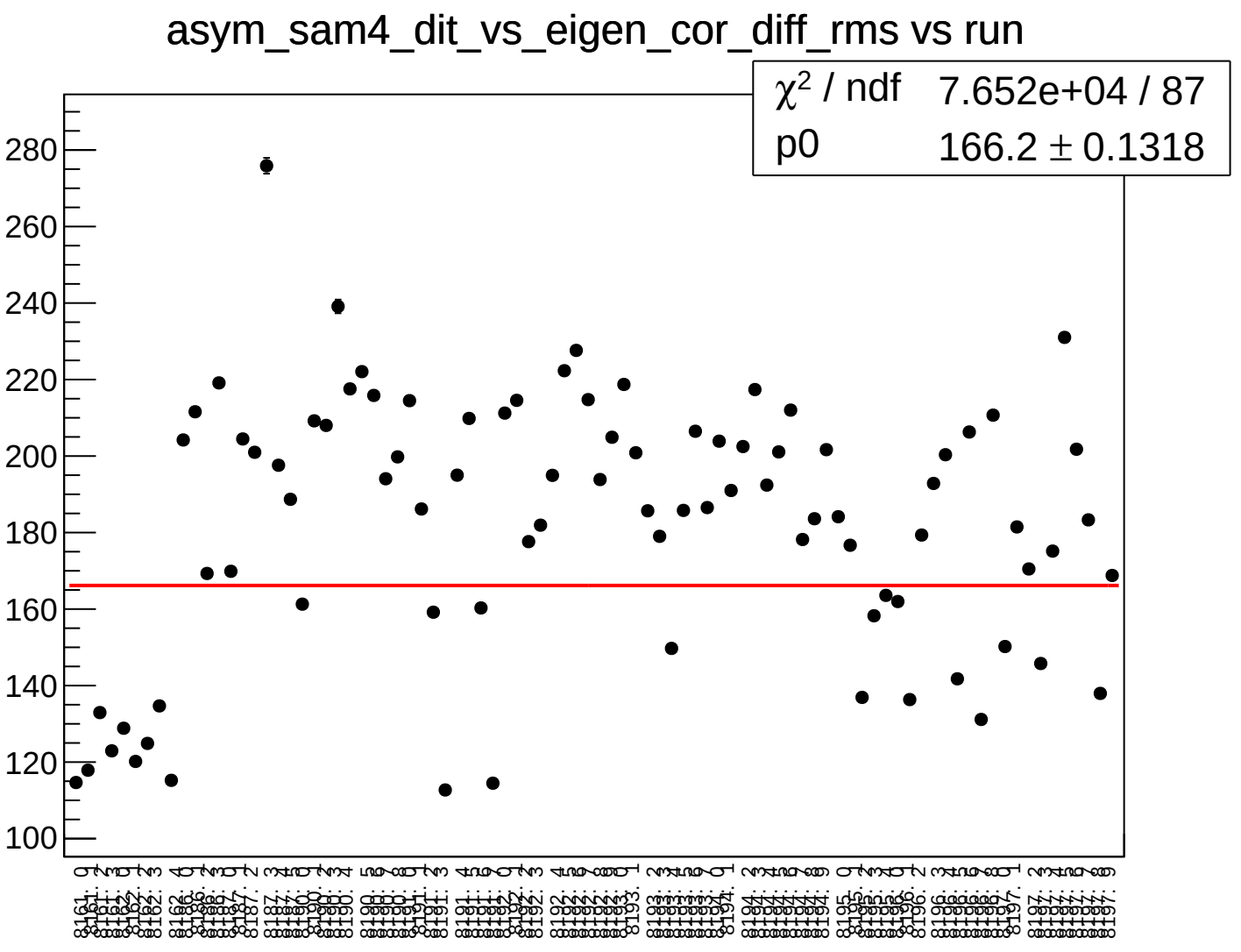

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 75.57 / 87
p0 2.302e−13 ± 4.536e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 88
Mean −6.367
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.04189
Std Dev 0.9257
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

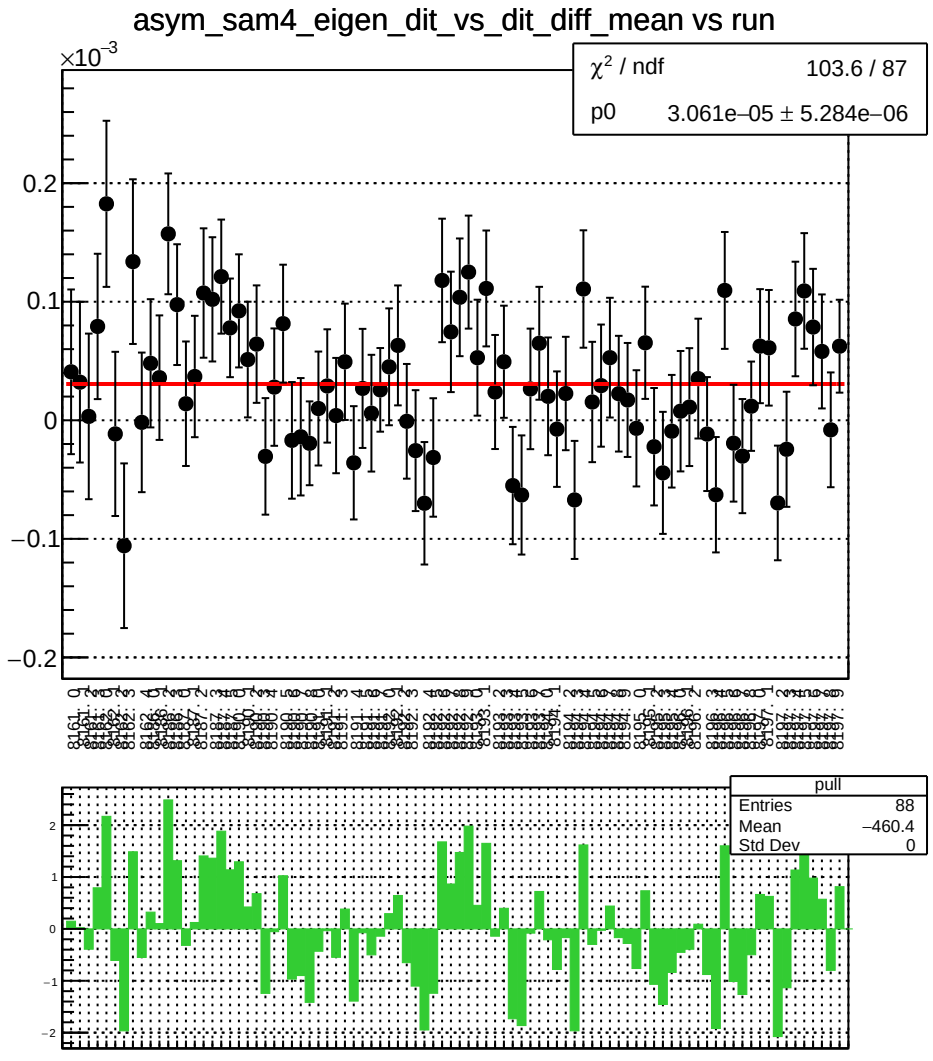

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 8.036e+05 / 87
p0 2.98e−10 ± 3.207e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

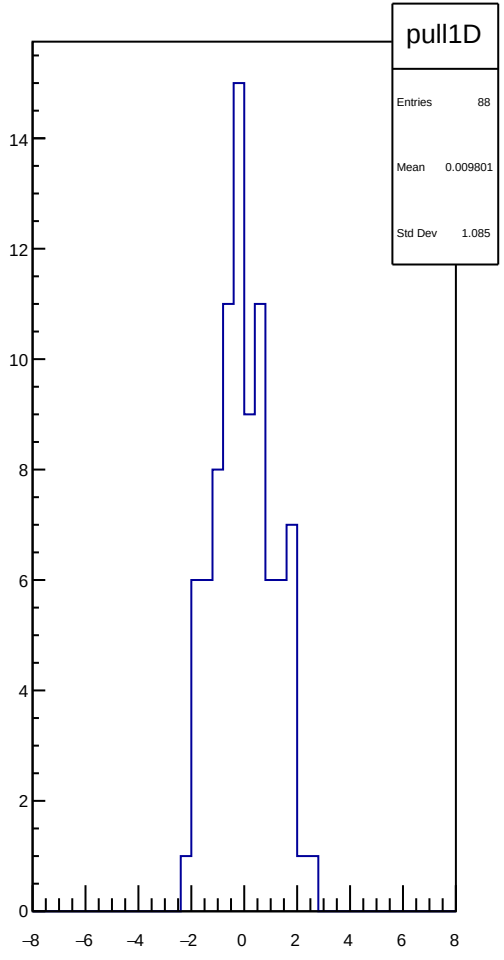

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 99.54 / 87
p0 −0.9703 ± 0.1863
pull
Entries 88
Mean −119.2
Std Dev 0
pull1D
Entries 88
Mean −0.04149
Std Dev 1.063


asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 7.652e+04 / 87
p0 166.2 ± 0.1318
280
260
240
220
200
180
160
140
120
100

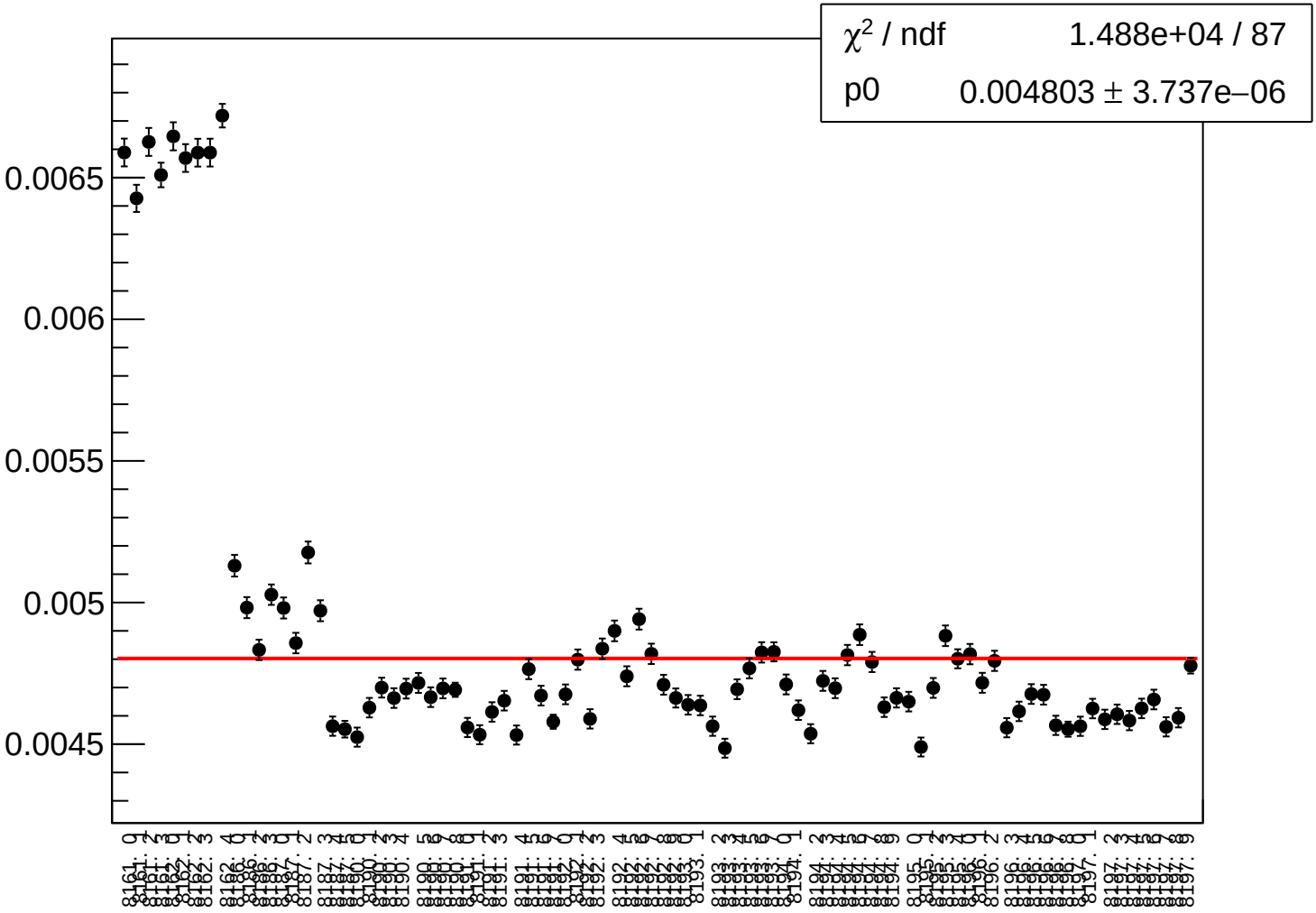

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.54 / 87
p0 −0.9703 ± 0.1863
pull
Entries 88
Mean −119.2
Std Dev 0
pull1D
Entries 88
Mean −0.04149
Std Dev 1.063

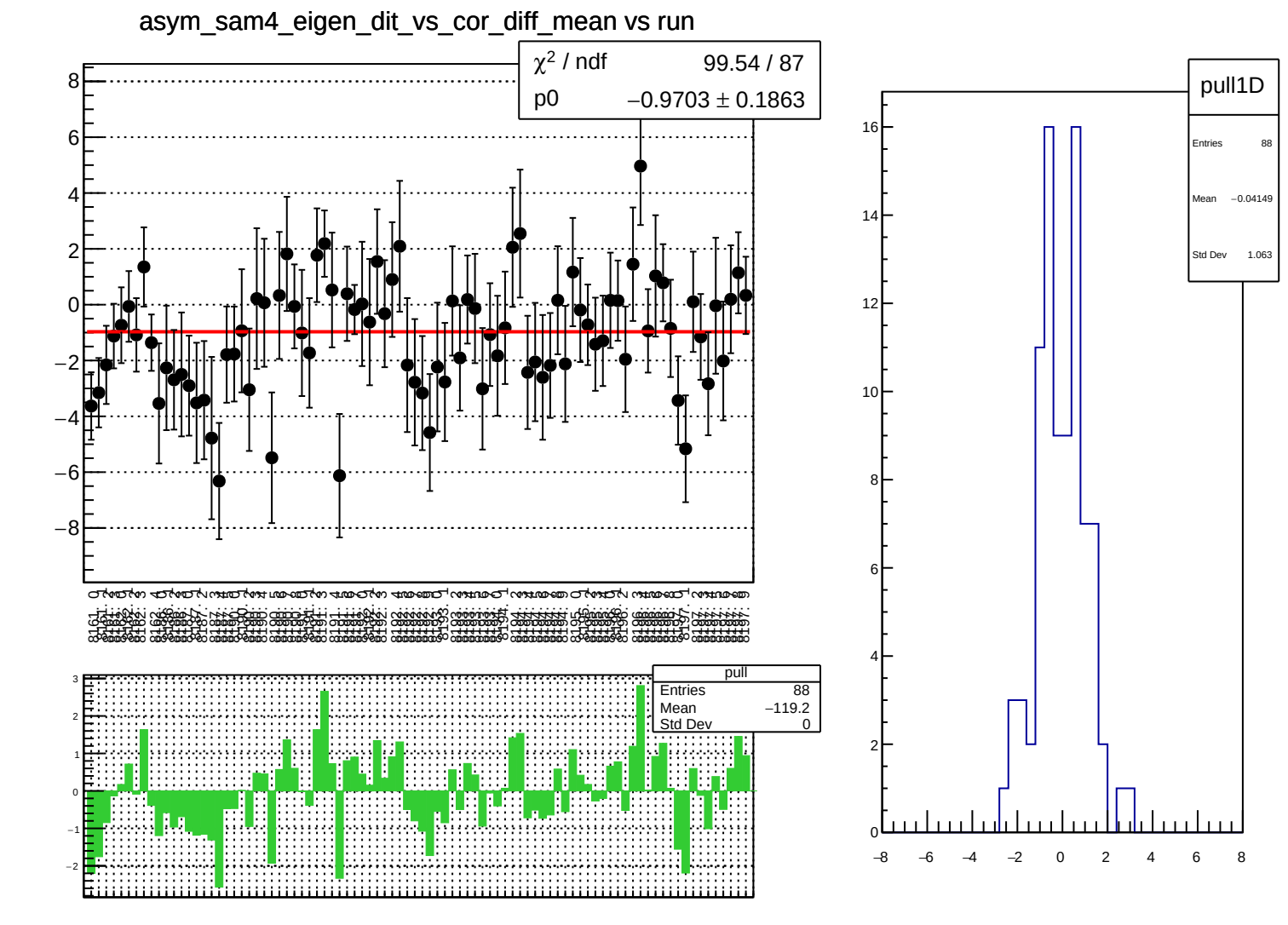

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.652e+04 / 87
p0 166.2 ± 0.1318
280
260
240
220
200
180
160
140
120
100

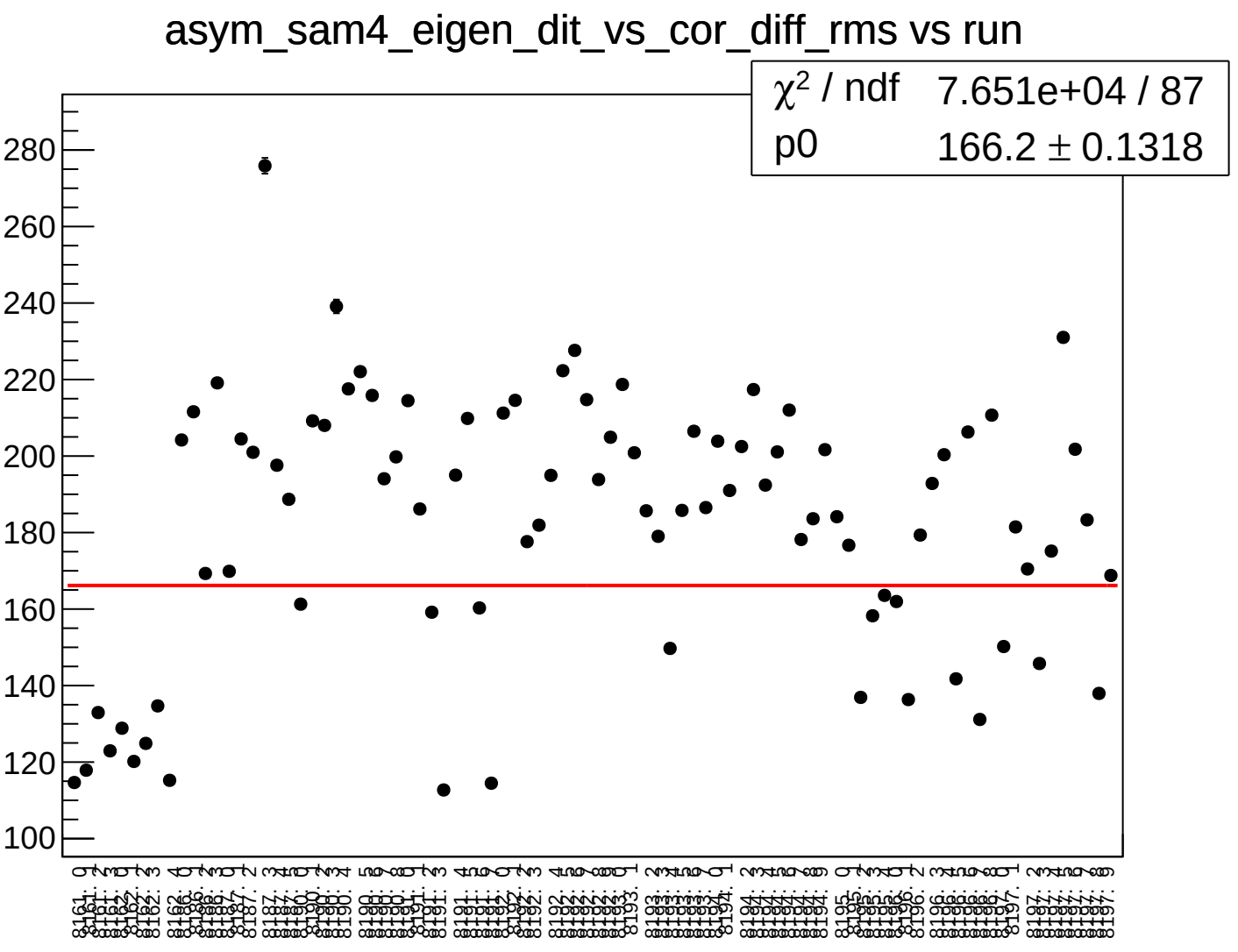

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.6 / 87
p0 3.061e−05 ± 5.284e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −460.4
Std Dev 0
2
1
0
−1
−2

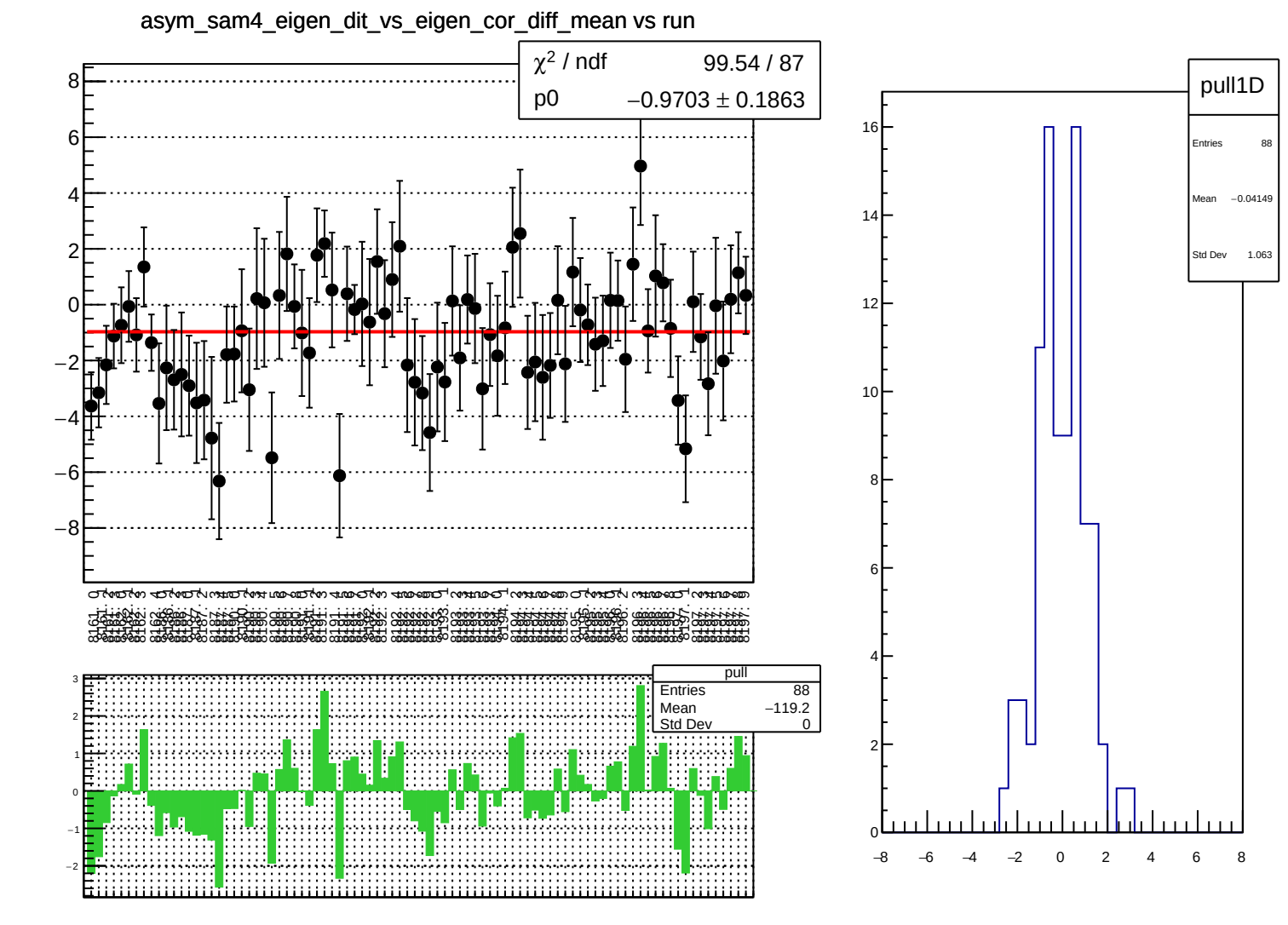

pull1D
Entries 88
Mean 0.009801
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

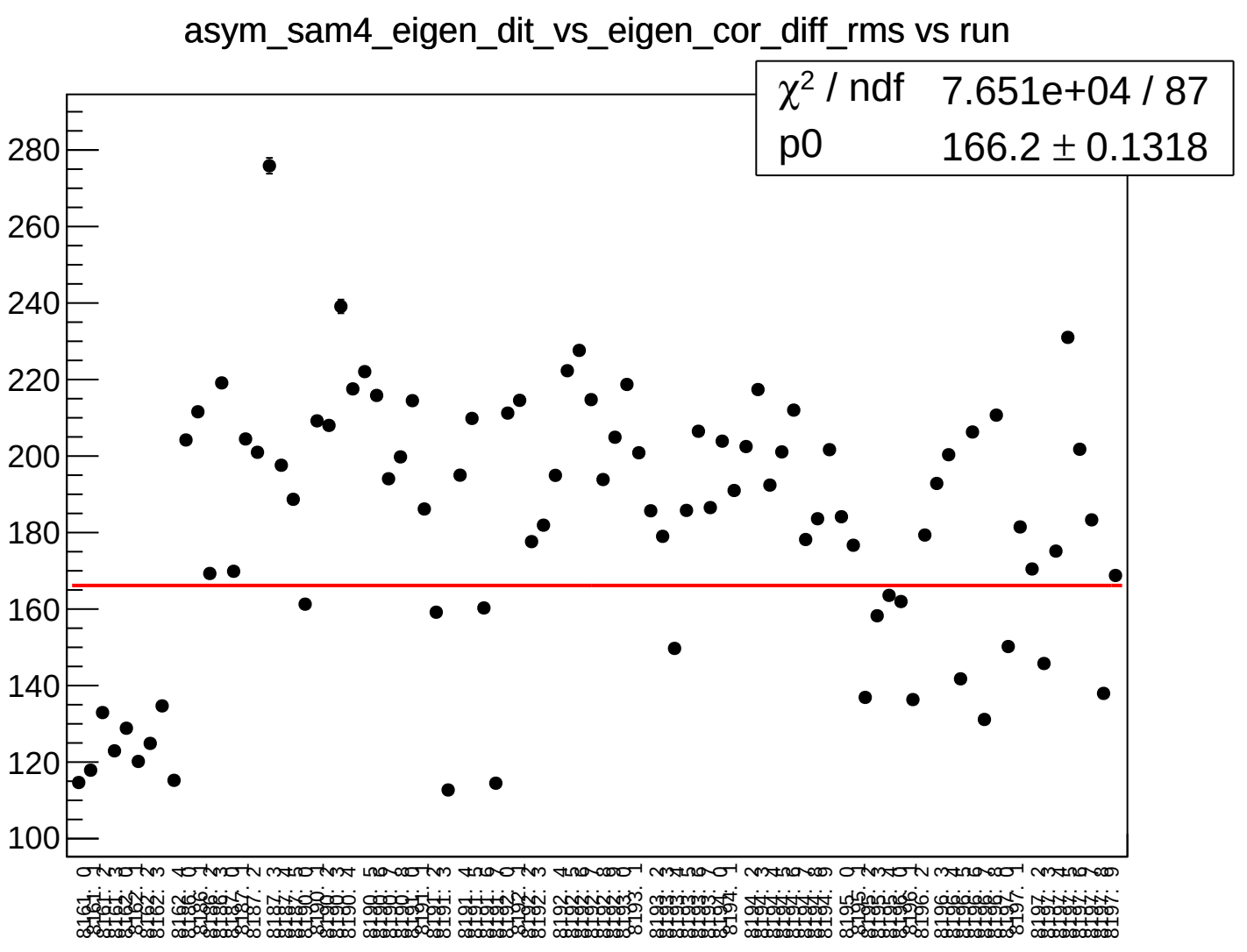
asym_sam4_eigen_dit_vs_dit_diff_rms vs run

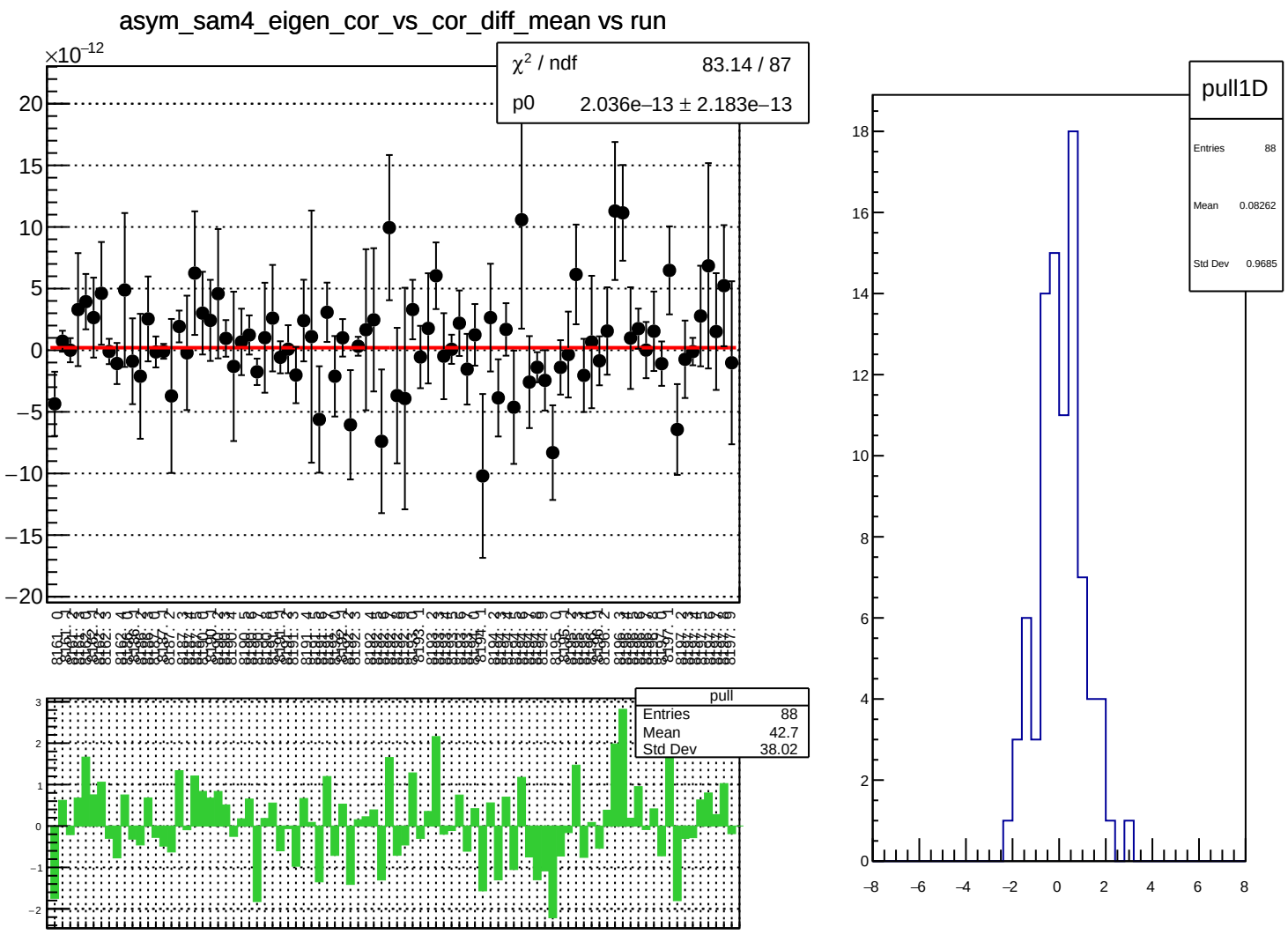


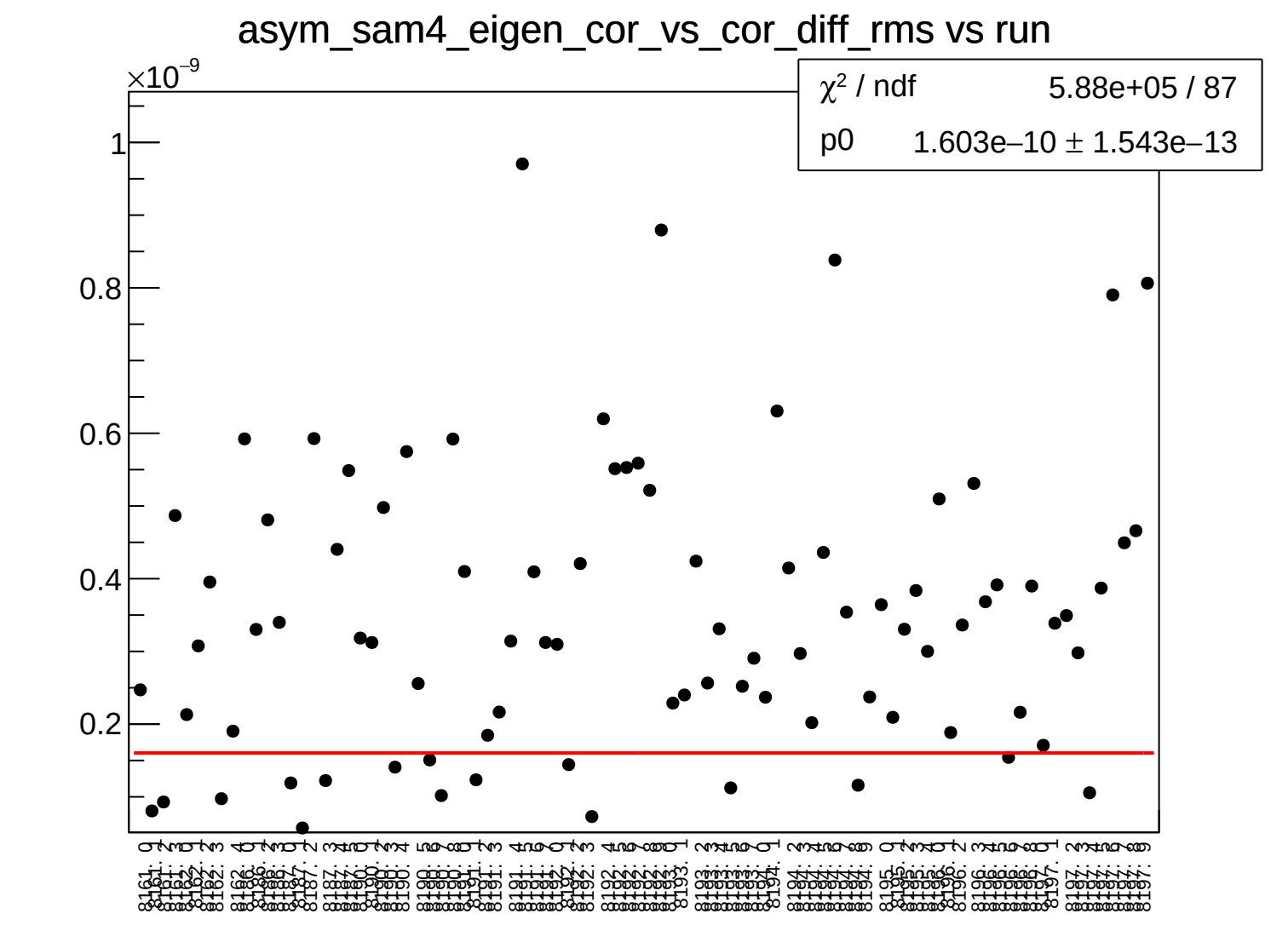

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.54 / 87
p0 −0.9703 ± 0.1863
pull
Entries 88
Mean −119.2
Std Dev 0
pull1D
Entries 88
Mean −0.04149
Std Dev 1.063

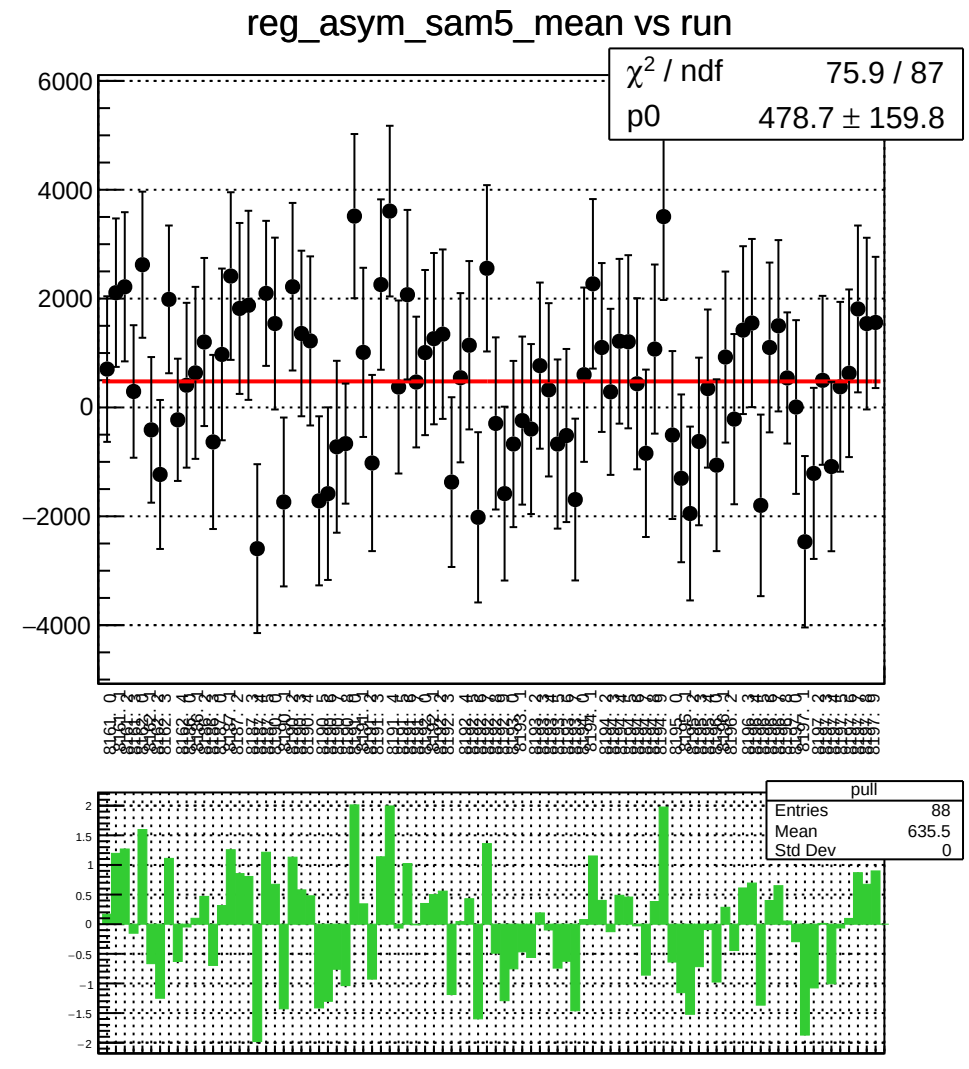

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.651e+04 / 87
p0 166.2 ± 0.1318
280
260
240
220
200
180
160
140
120
100

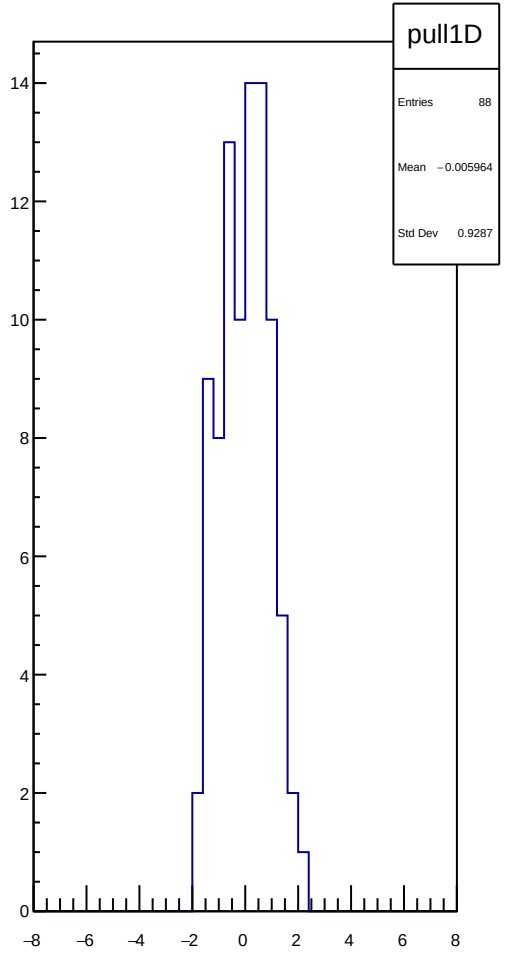

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.54 / 87
p0 −0.9703 ± 0.1863
pull
Entries 88
Mean −119.2
Std Dev 0
pull1D
Entries 88
Mean −0.04149
Std Dev 1.063

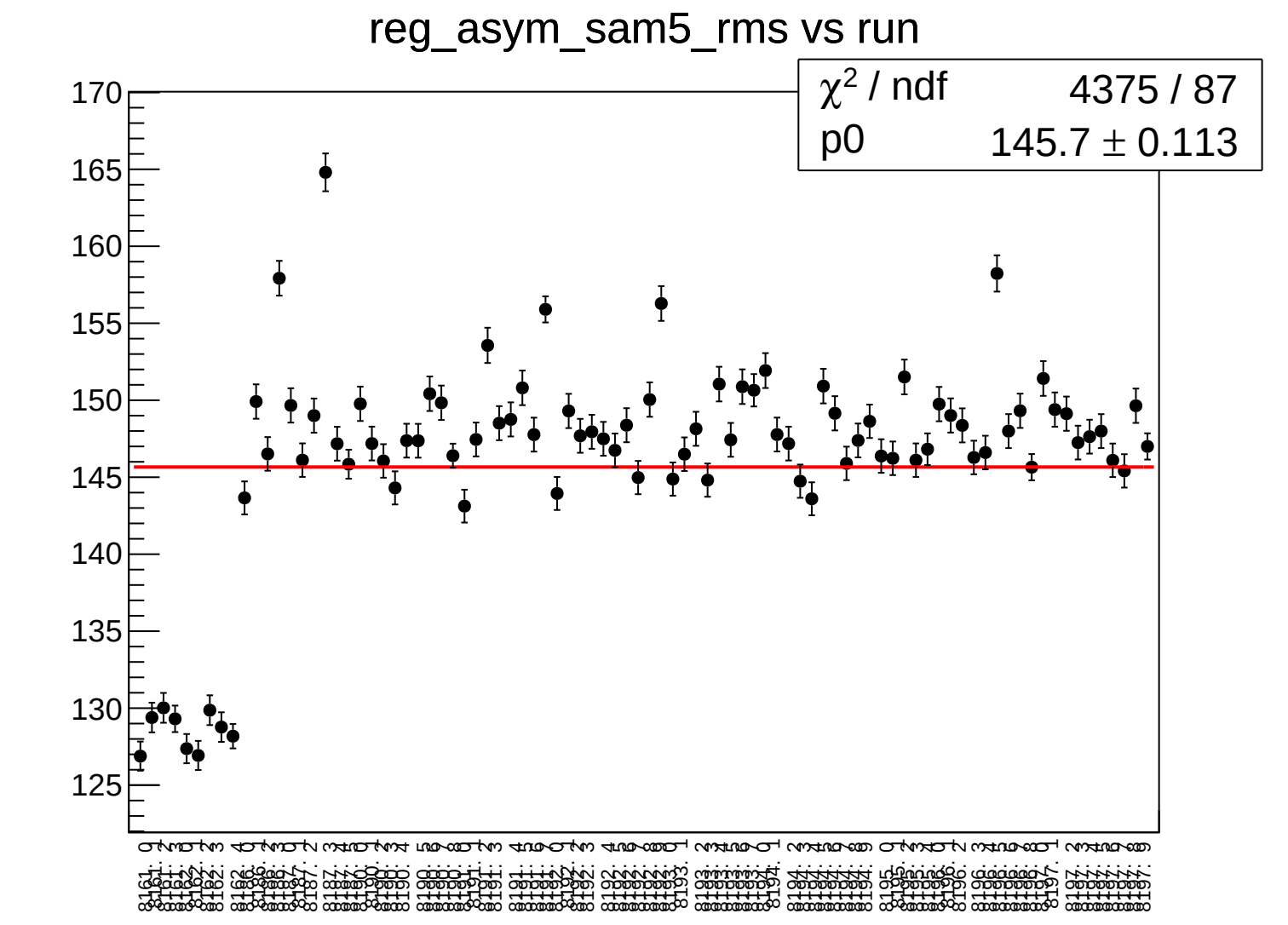

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.651e+04 / 87
p0 166.2 ± 0.1318
280
260
240
220
200
180
160
140
120
100

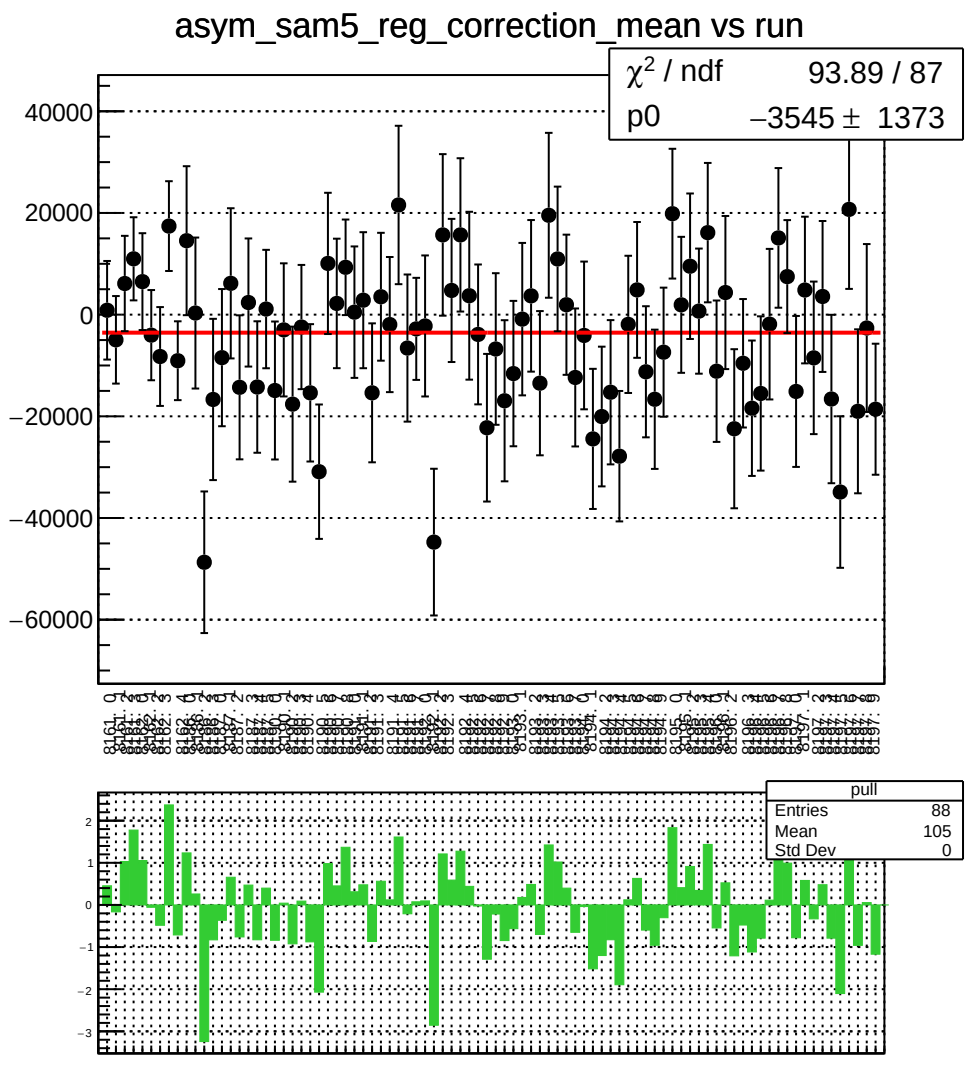

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.14 / 87
p0 2.036e−13 ± 2.183e−13
pull
Entries 88
Mean 42.7
Std Dev 38.02
pull1D
Entries 88
Mean 0.08262
Std Dev 0.9685

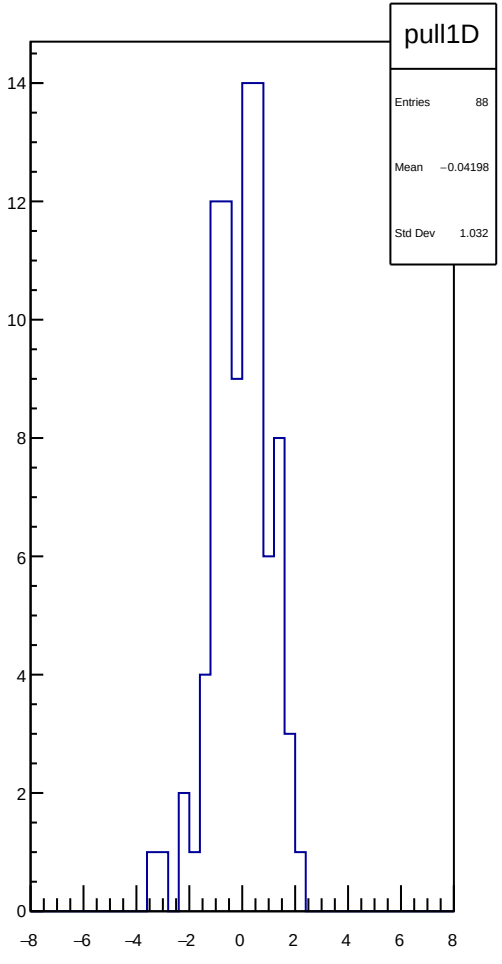

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.88e+05 / 87
p0 1.603e−10 ± 1.543e−13
1
0.8
0.6
0.4
0.2

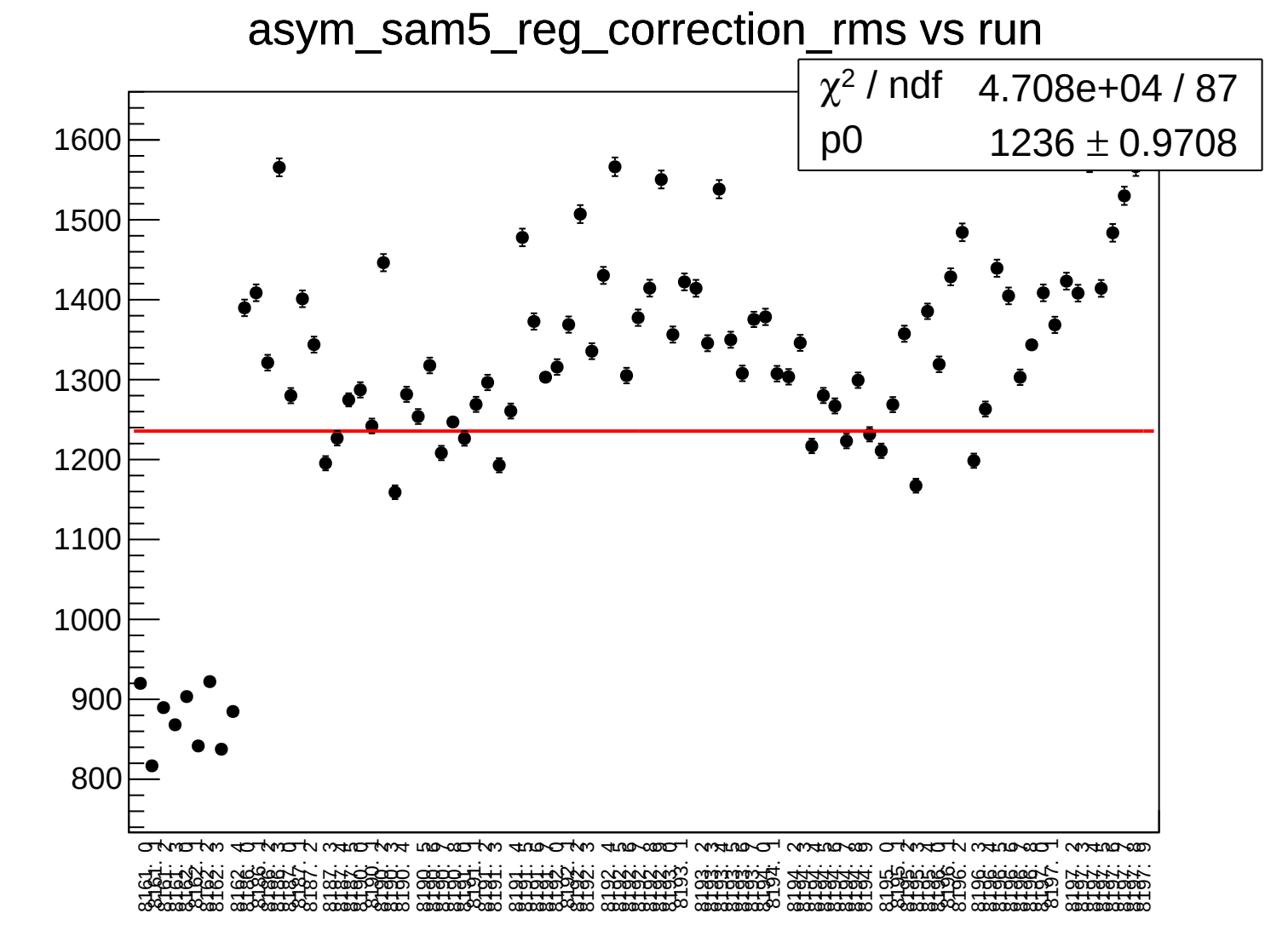

reg_asym_sam5_mean vs run
χ² / ndf 75.9 / 87
p0 478.7 ± 159.8
pull
Entries 88
Mean 635.5
Std Dev 0

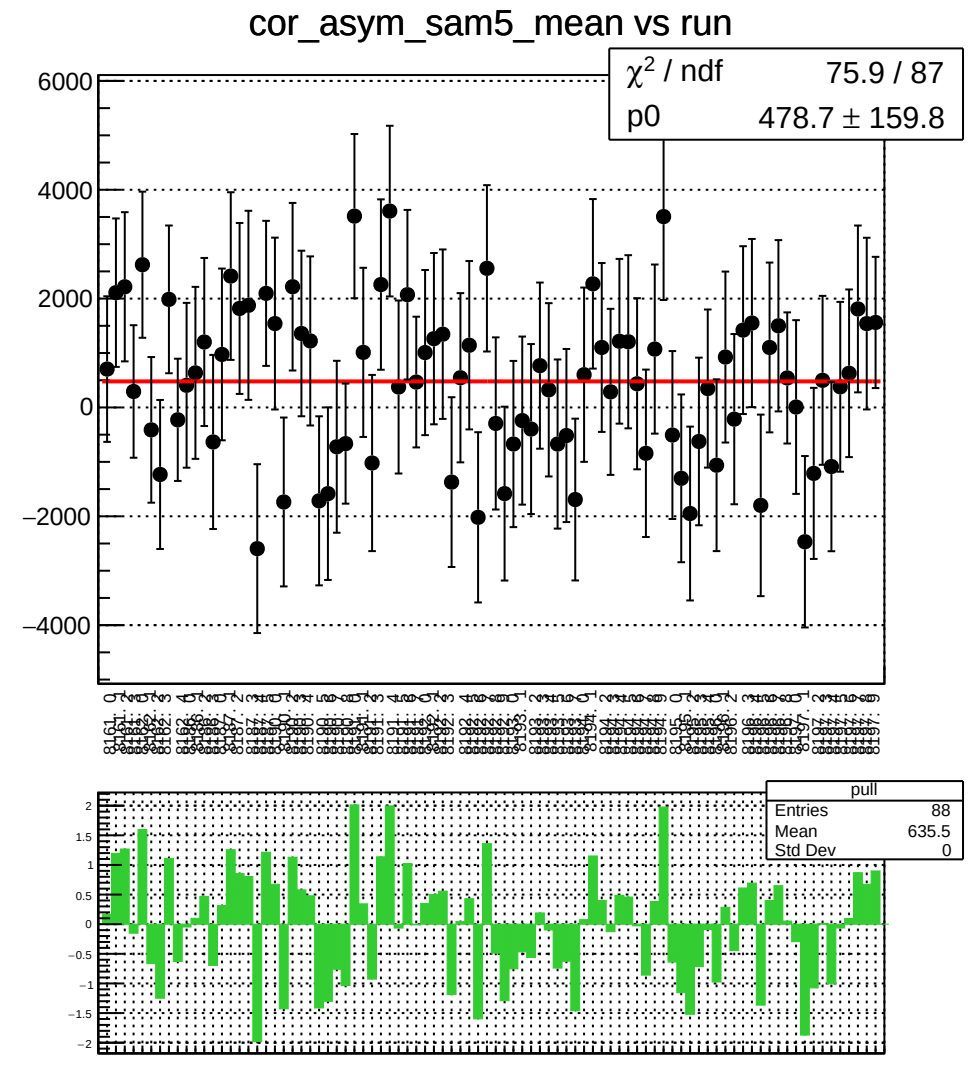

pull1D
Entries 88
Mean −0.005964
Std Dev 0.9287

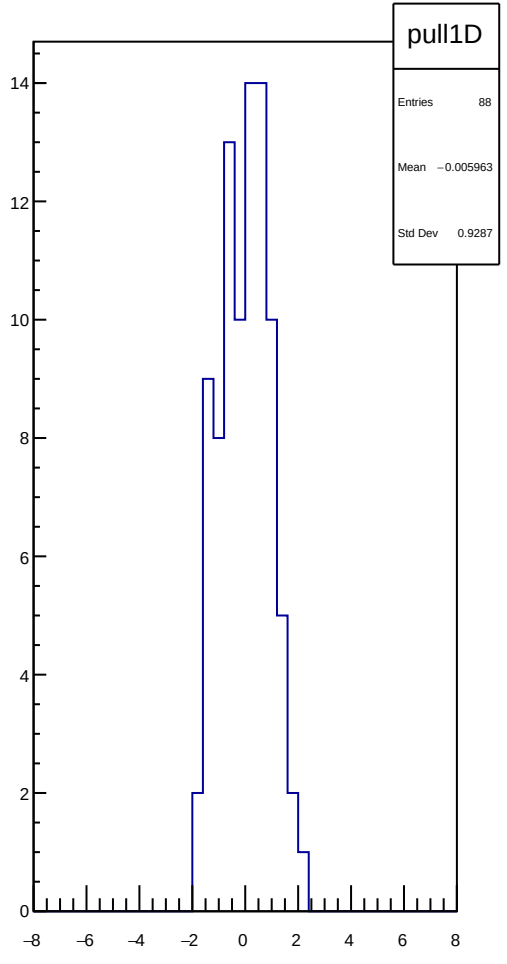

reg_asym_sam5_rms vs run
χ² / ndf 4375 / 87
p0 145.7 ± 0.113
170
165
160
155
150
145
140
135
130
125

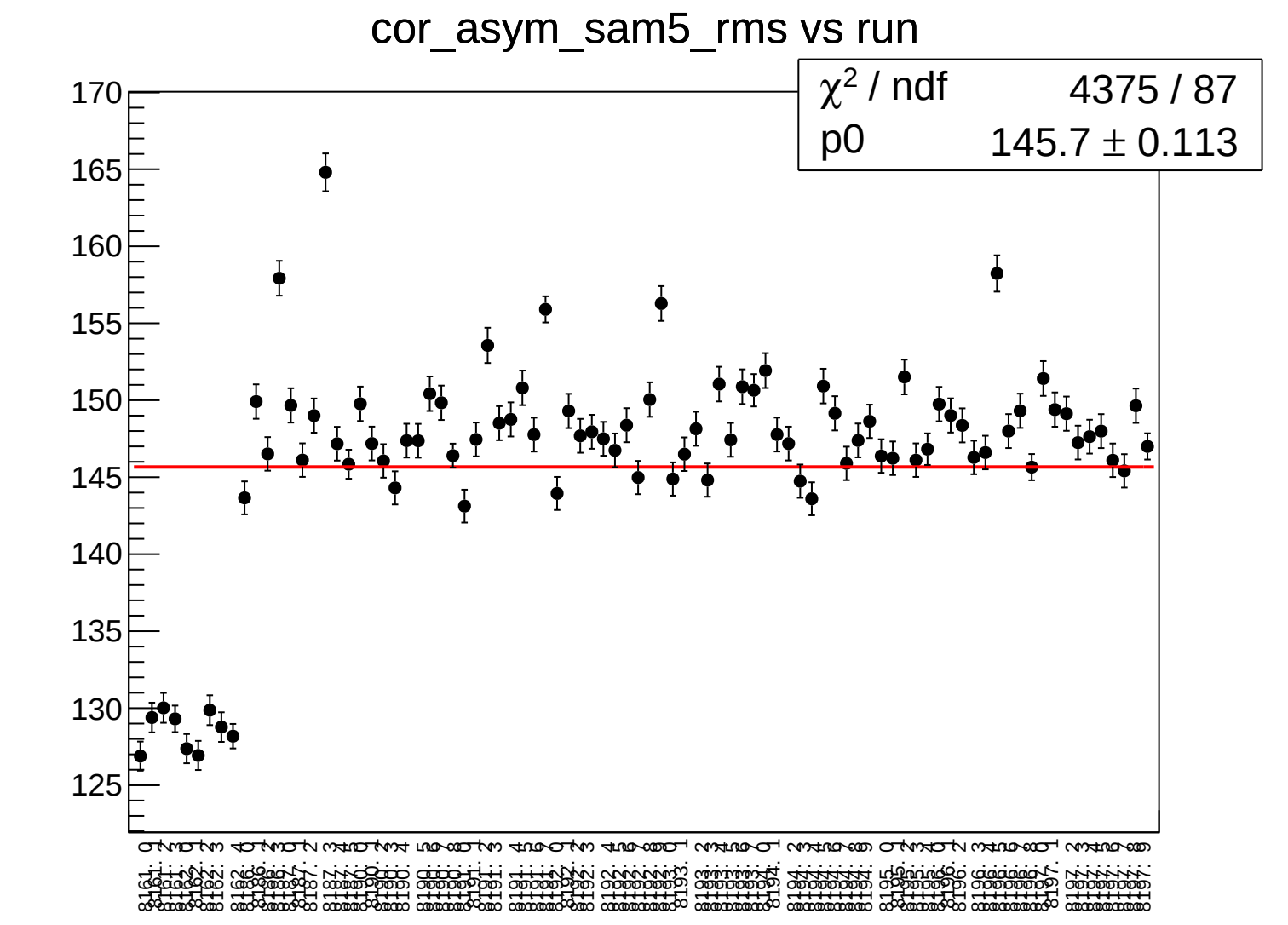

asym_sam5_reg_correction_mean vs run
χ² / ndf 93.89 / 87
p0 −3545 ± 1373
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 105
Std Dev 0
2
1
0
−1
−2
−3

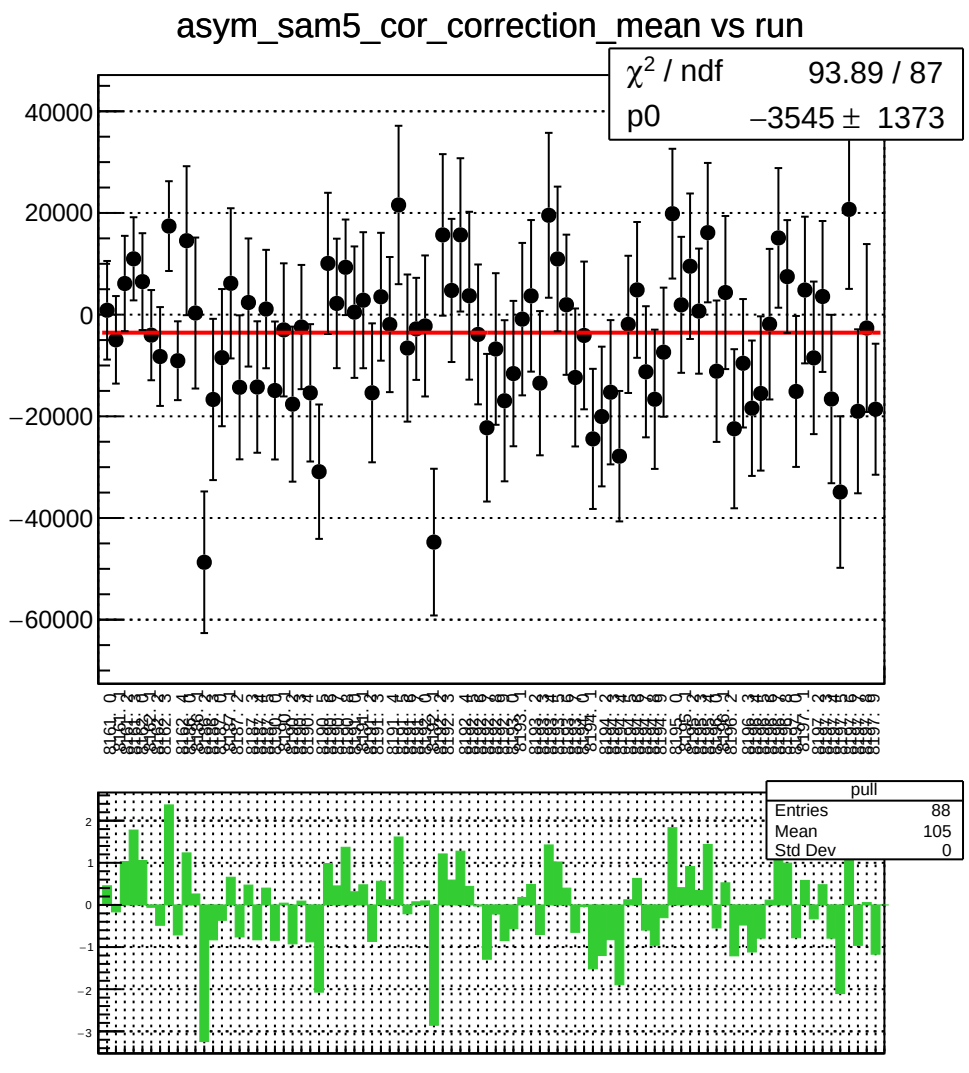

pull1D
Entries 88
Mean −0.04198
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

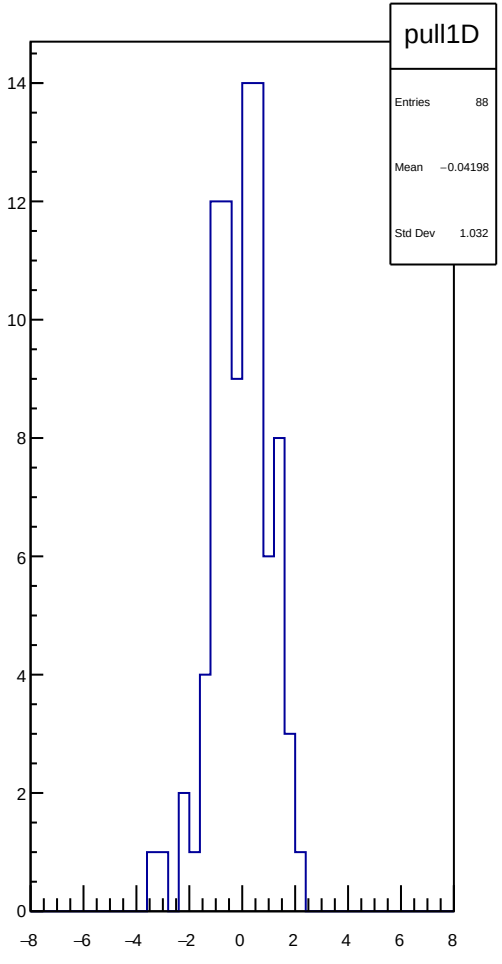

asym_sam5_reg_correction_rms vs run
χ² / ndf 4.708e+04 / 87
p0 1236 ± 0.9708
1600
1500
1400
1300
1200
1100
1000
900
800

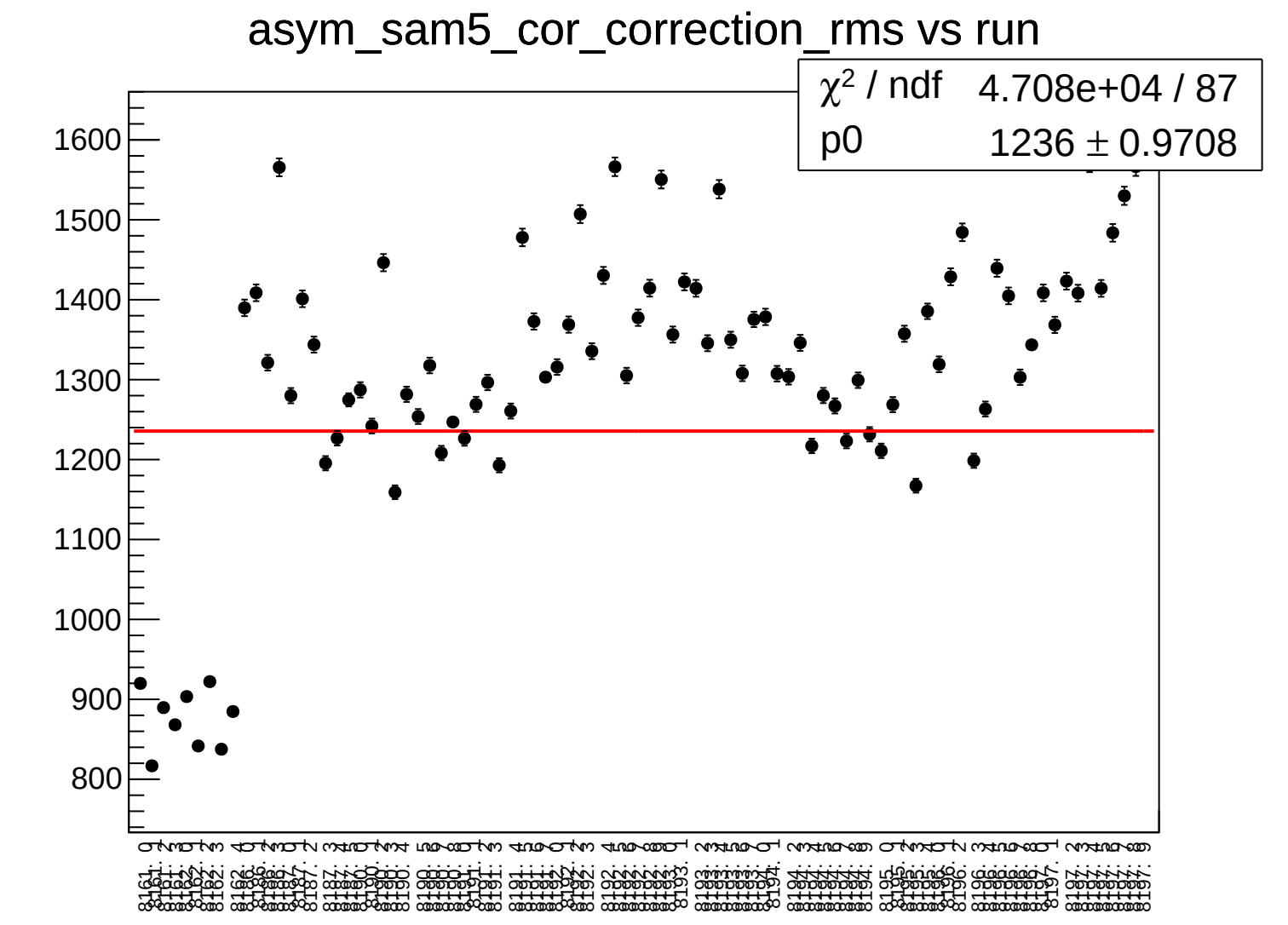

cor_asym_sam5_mean vs run
χ² / ndf 75.9 / 87
p0 478.7 ± 159.8
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 635.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

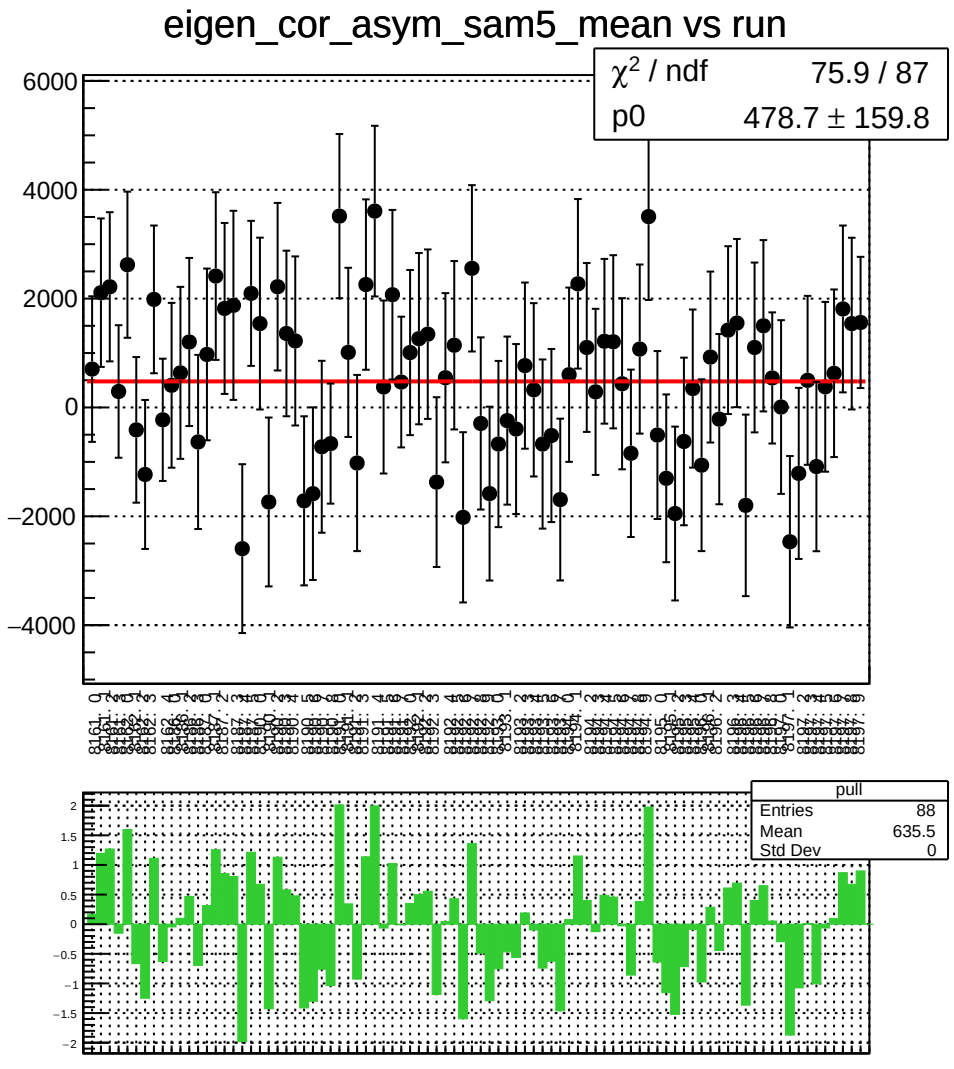

pull1D
Entries 88
Mean −0.005963
Std Dev 0.9287
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

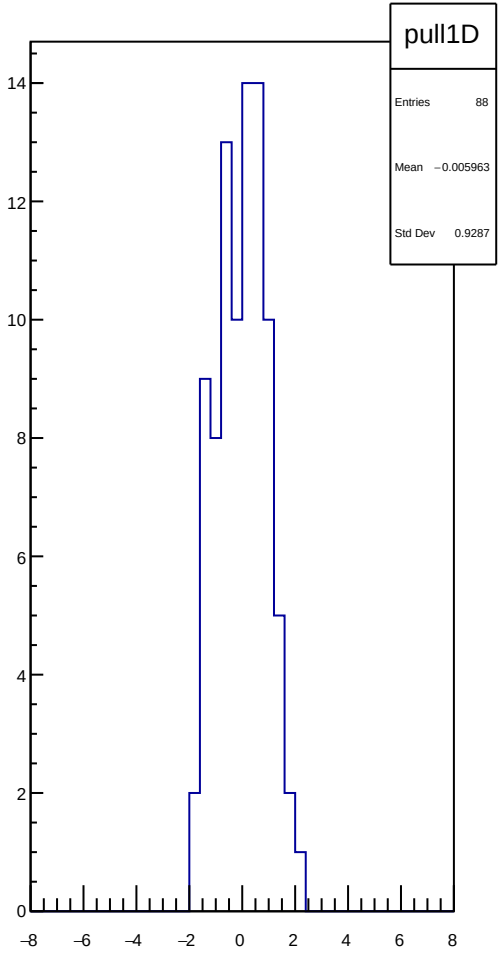

cor_asym_sam5_rms vs run
χ² / ndf 4375 / 87
p0 145.7 ± 0.113
170
165
160
155
150
145
140
135
130
125

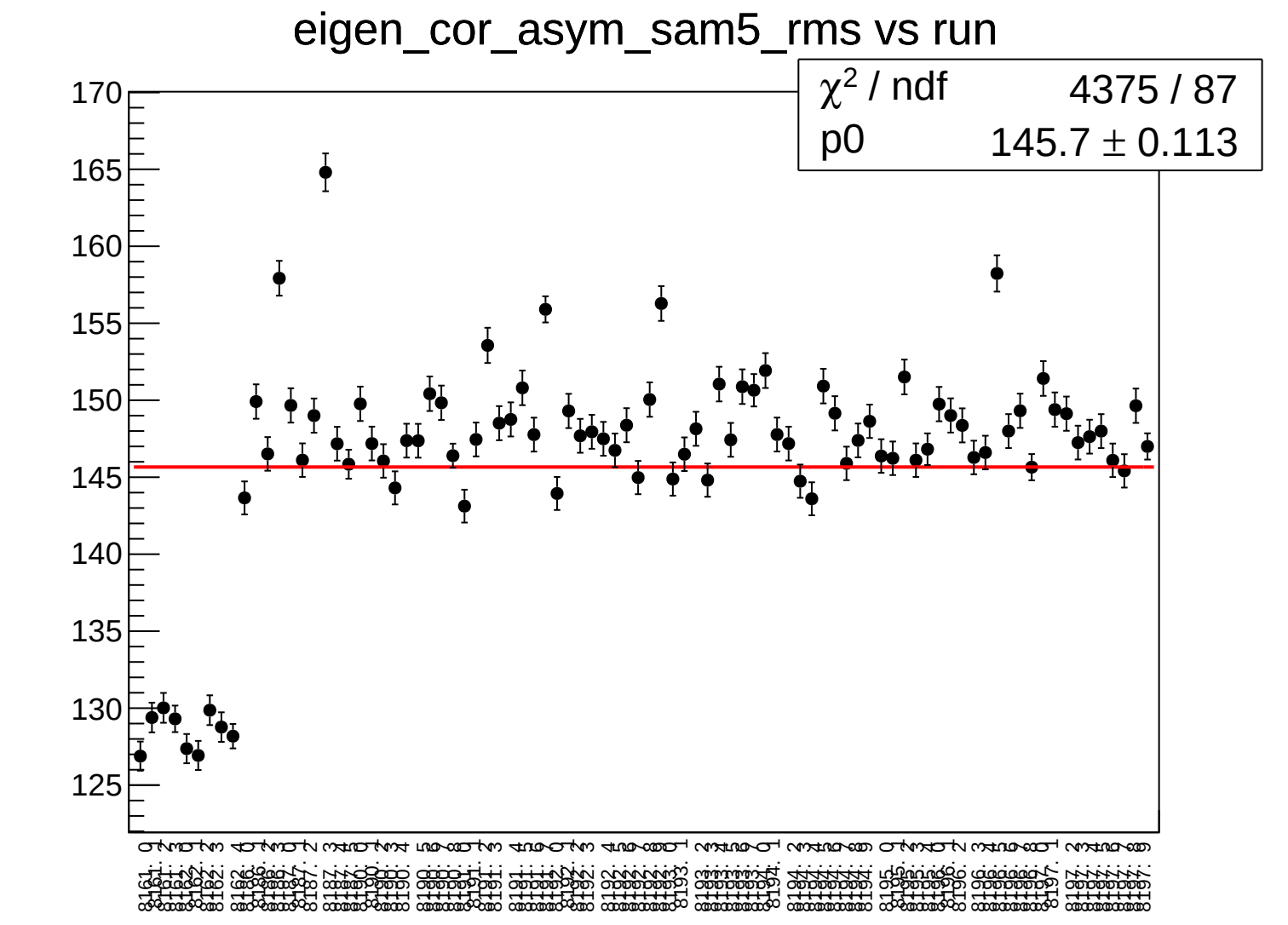

asym_sam5_cor_correction_mean vs run
χ² / ndf 93.89 / 87
p0 −3545 ± 1373
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 105
Std Dev 0
2
1
0
−1
−2
−3

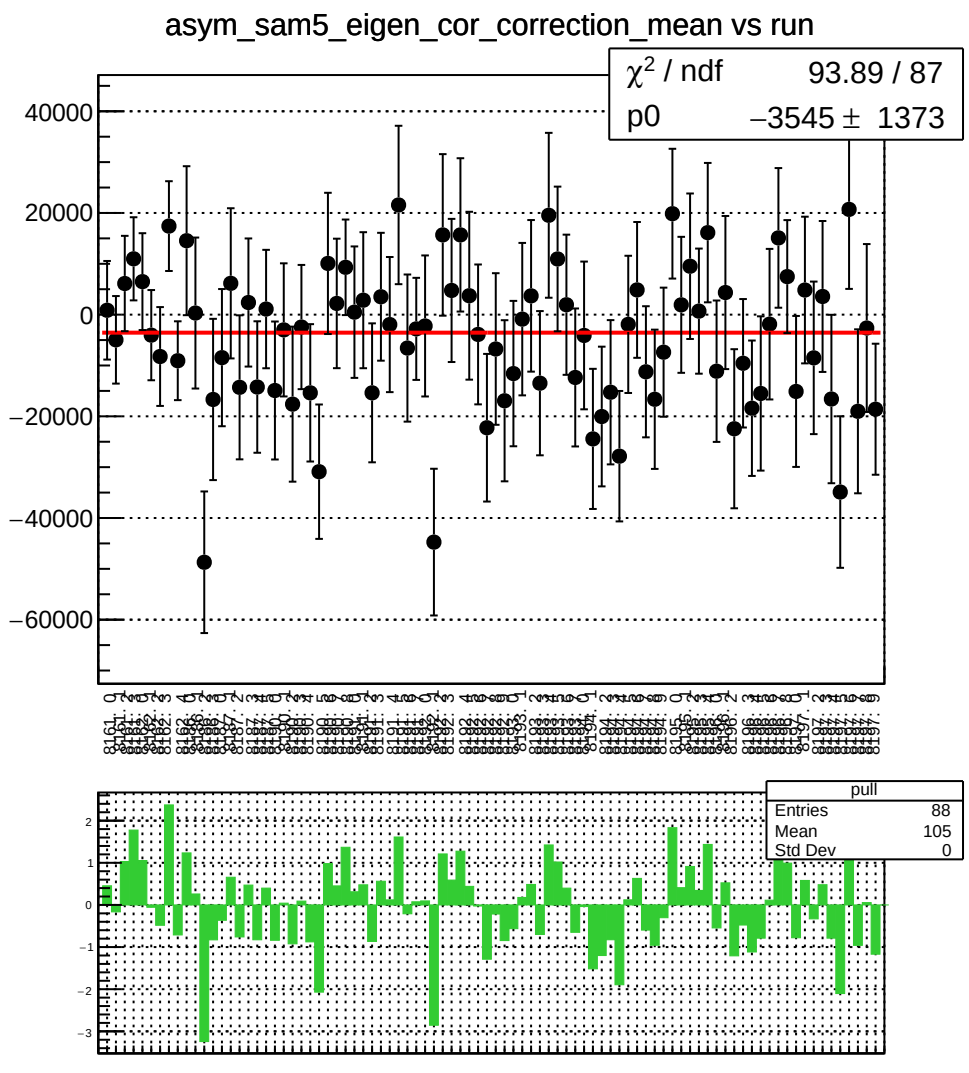

pull1D
Entries 88
Mean −0.04198
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

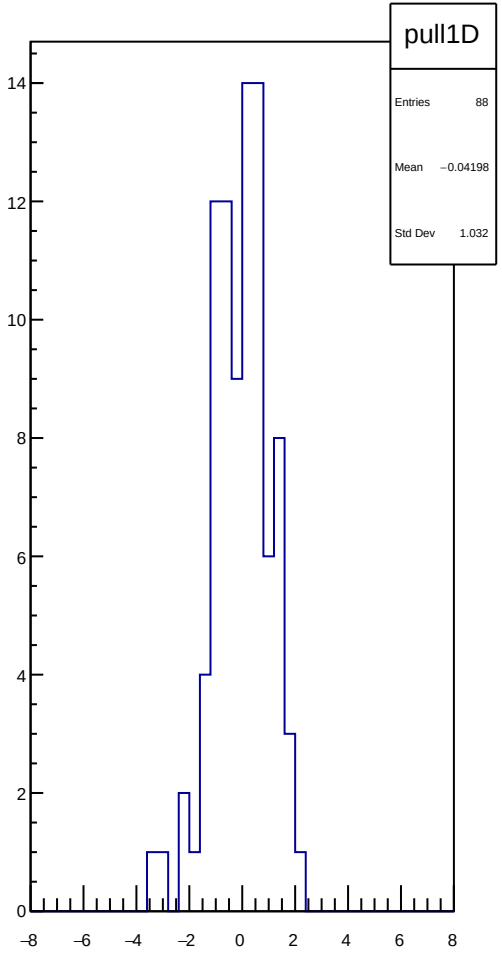

asym_sam5_cor_correction_rms vs run
χ² / ndf 4.708e+04 / 87
p0 1236 ± 0.9708
1600
1500
1400
1300
1200
1100
1000
900
800

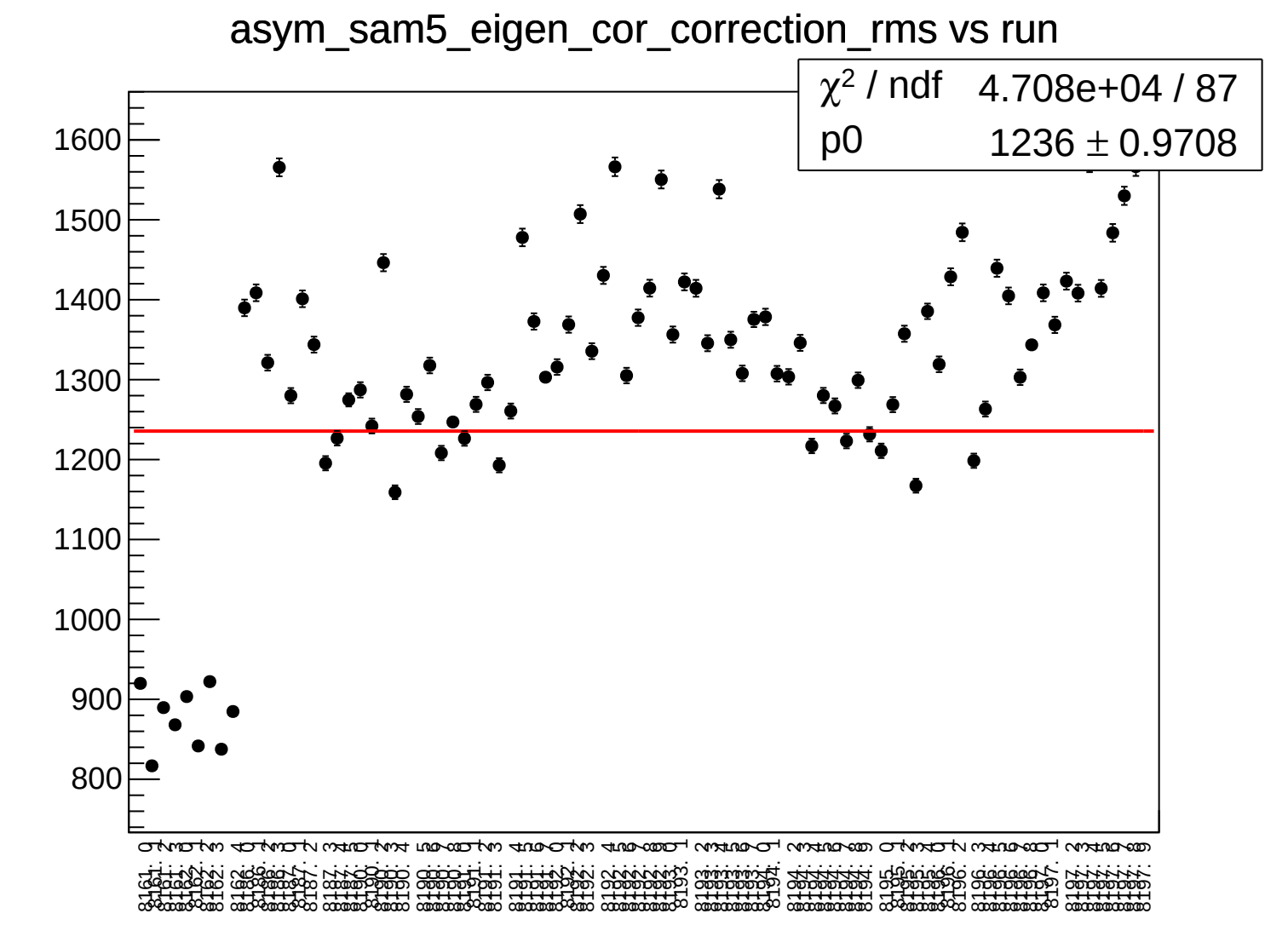

eigen_cor_asym_sam5_mean vs run
χ^2 / ndf 75.9 / 87
p0 478.7 ± 159.8
pull
Entries 88
Mean 635.5
Std Dev 0

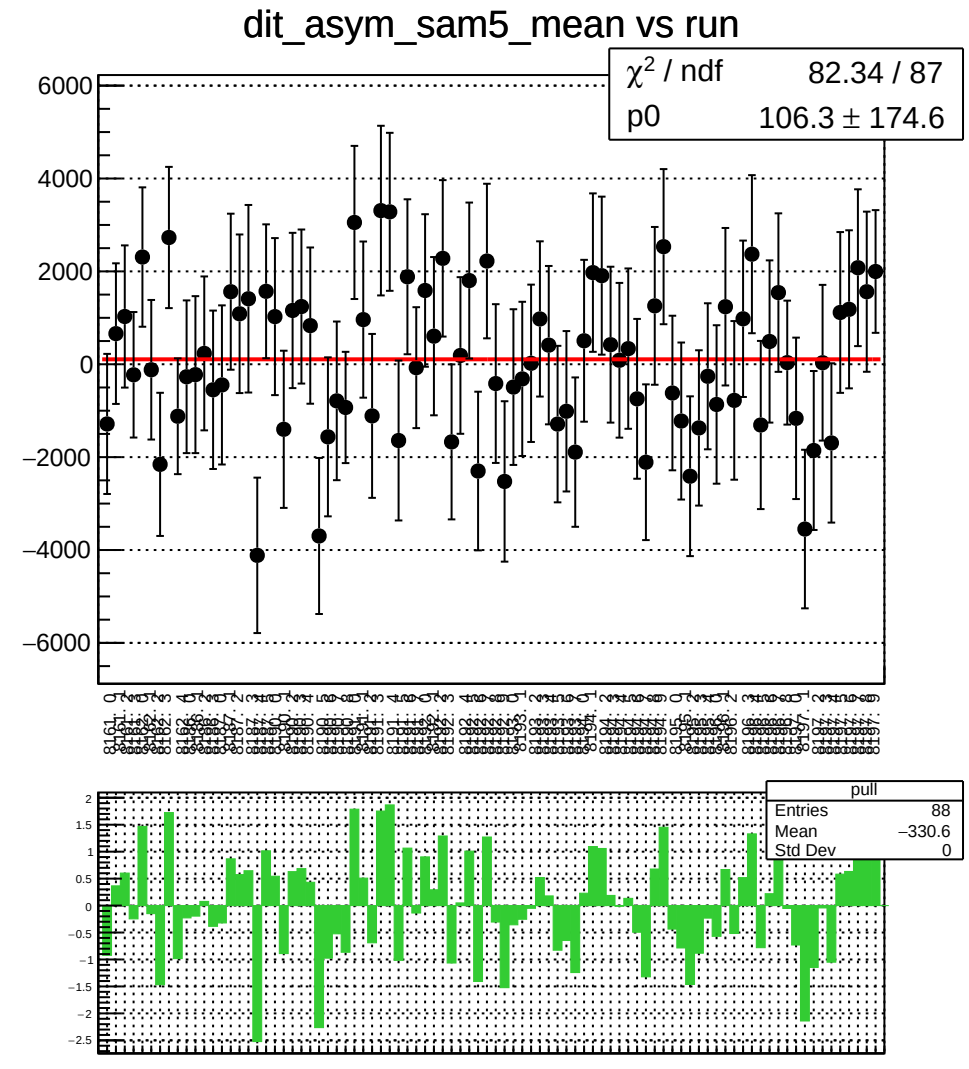

pull1D
Entries 88
Mean −0.005963
Std Dev 0.9287

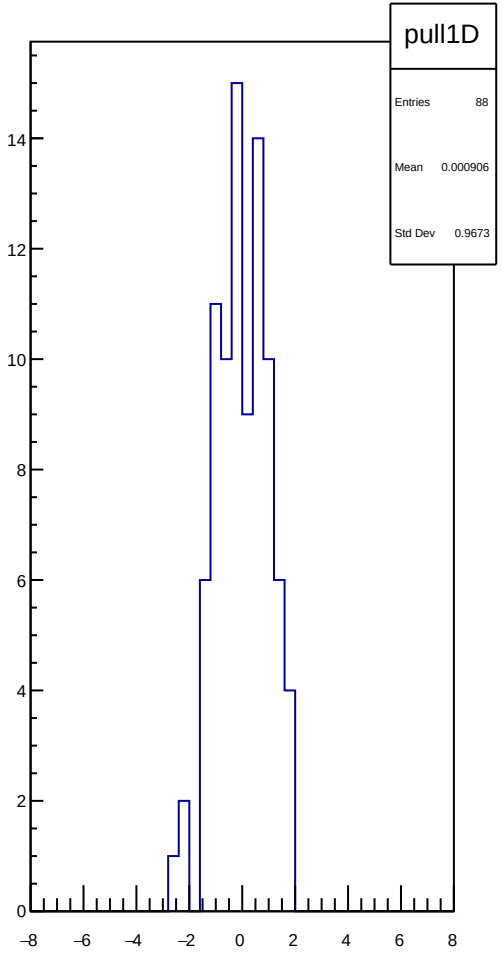

eigen_cor_asym_sam5_rms vs run
χ² / ndf 4375 / 87
p0 145.7 ± 0.113
170
165
160
155
150
145
140
135
130
125

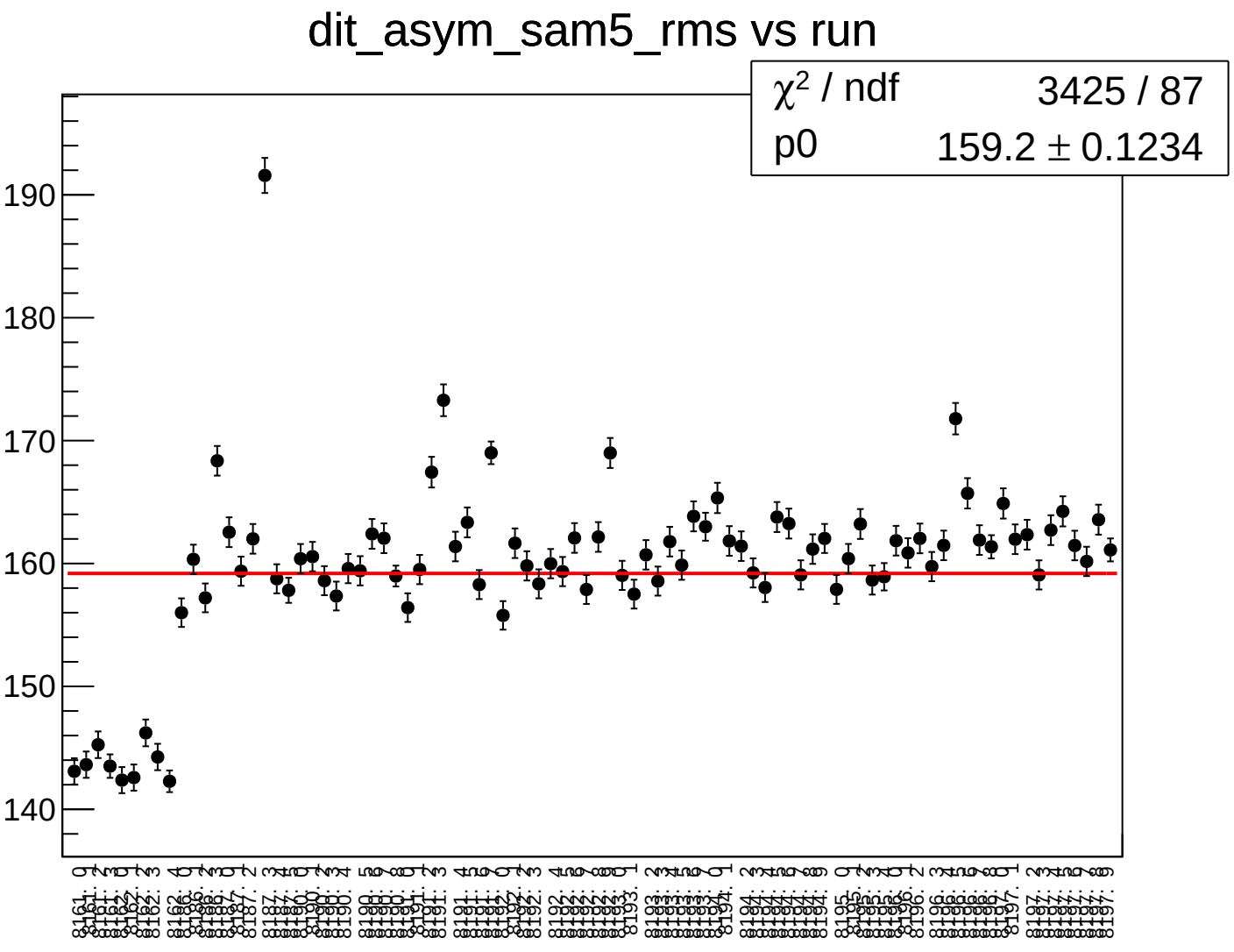

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 93.89 / 87
p0 −3545 ± 1373
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 105
Std Dev 0
2
1
0
−1
−2
−3

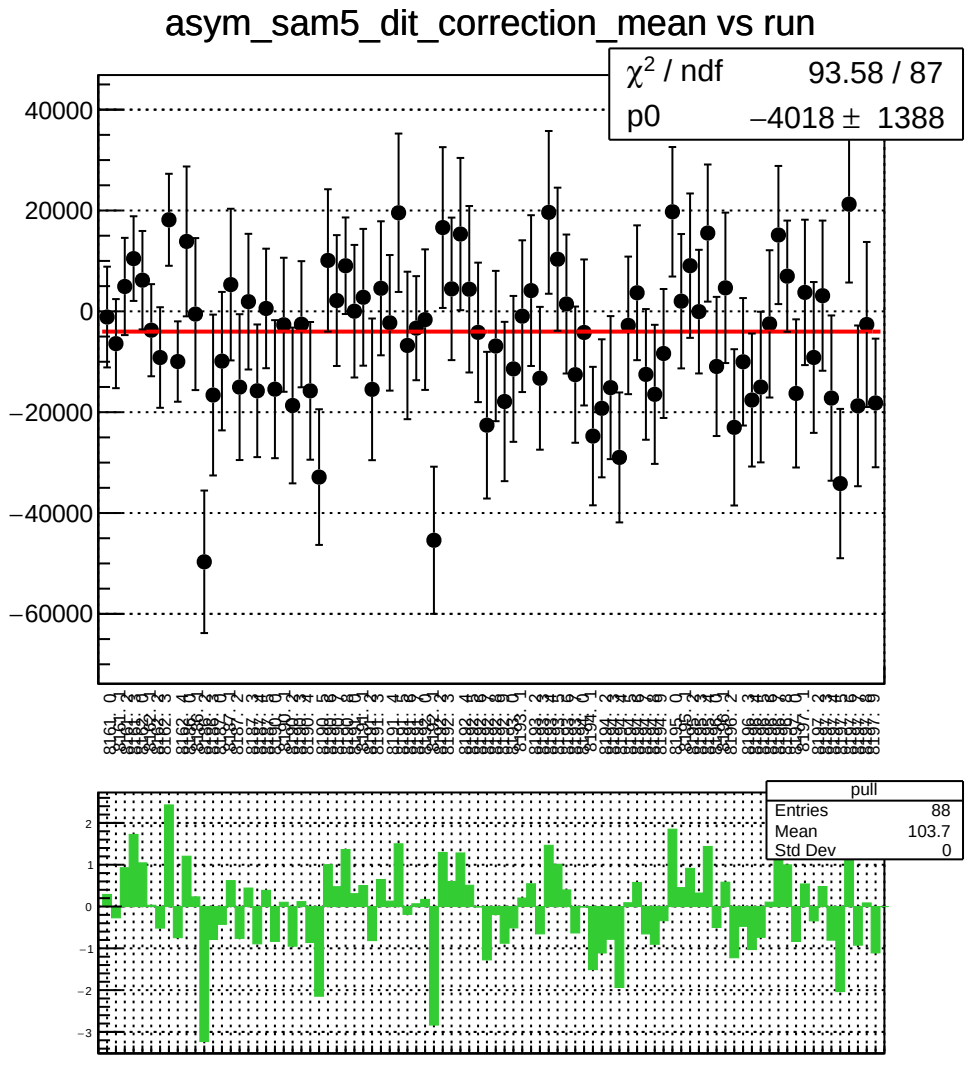

pull1D
Entries 88
Mean −0.04198
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

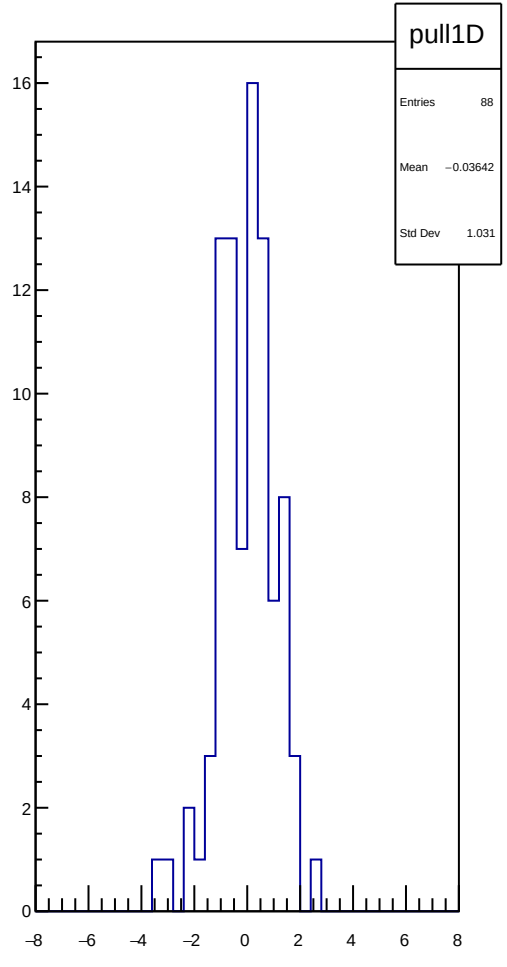

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 4.708e+04 / 87
p0 1236 ± 0.9708
1600
1500
1400
1300
1200
1100
1000
900
800

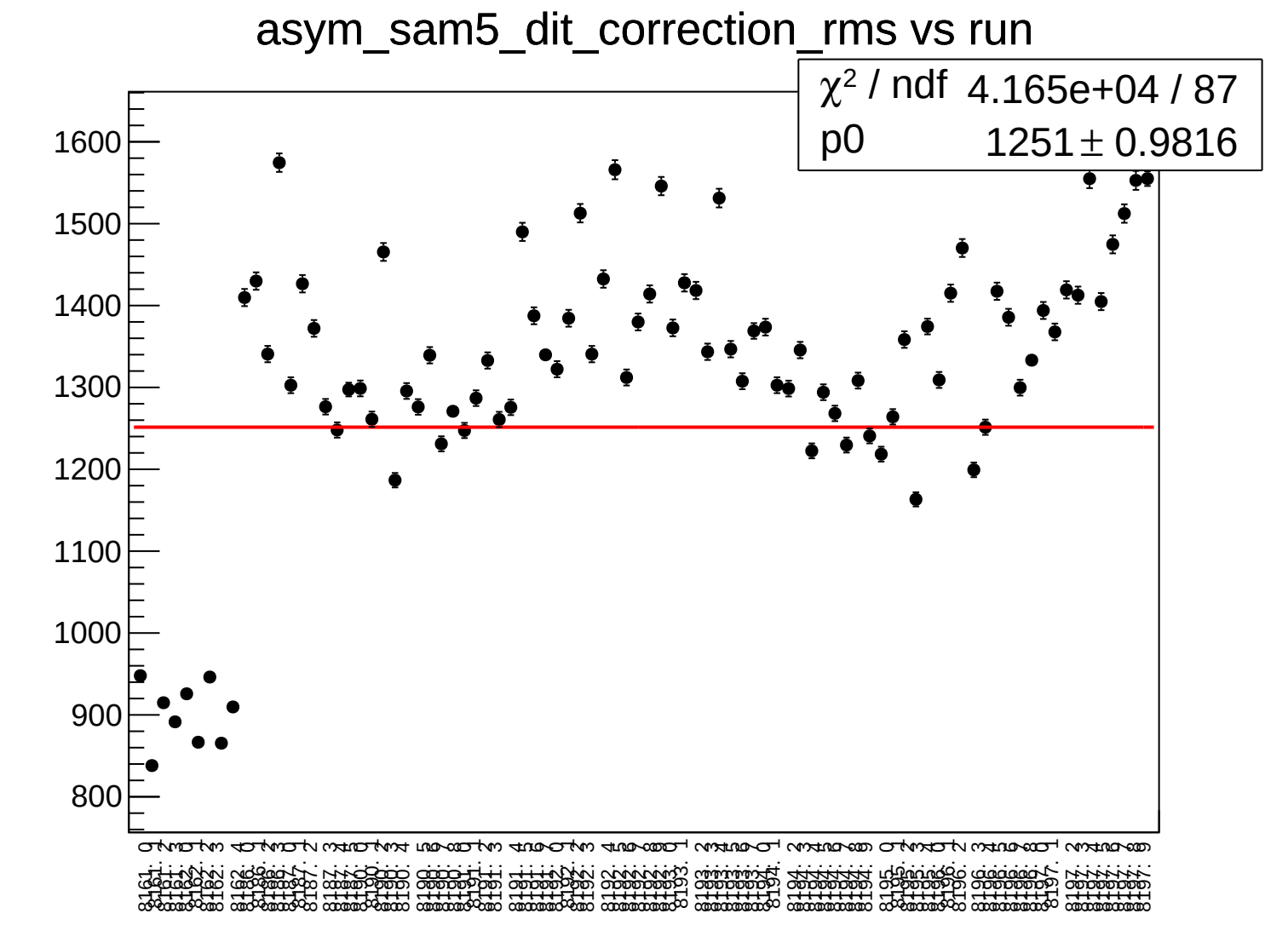

dit_asym_sam5_mean vs run
χ^2 / ndf 82.34 / 87
p0 106.3 ± 174.6
pull
Entries 88
Mean −330.6
Std Dev 0

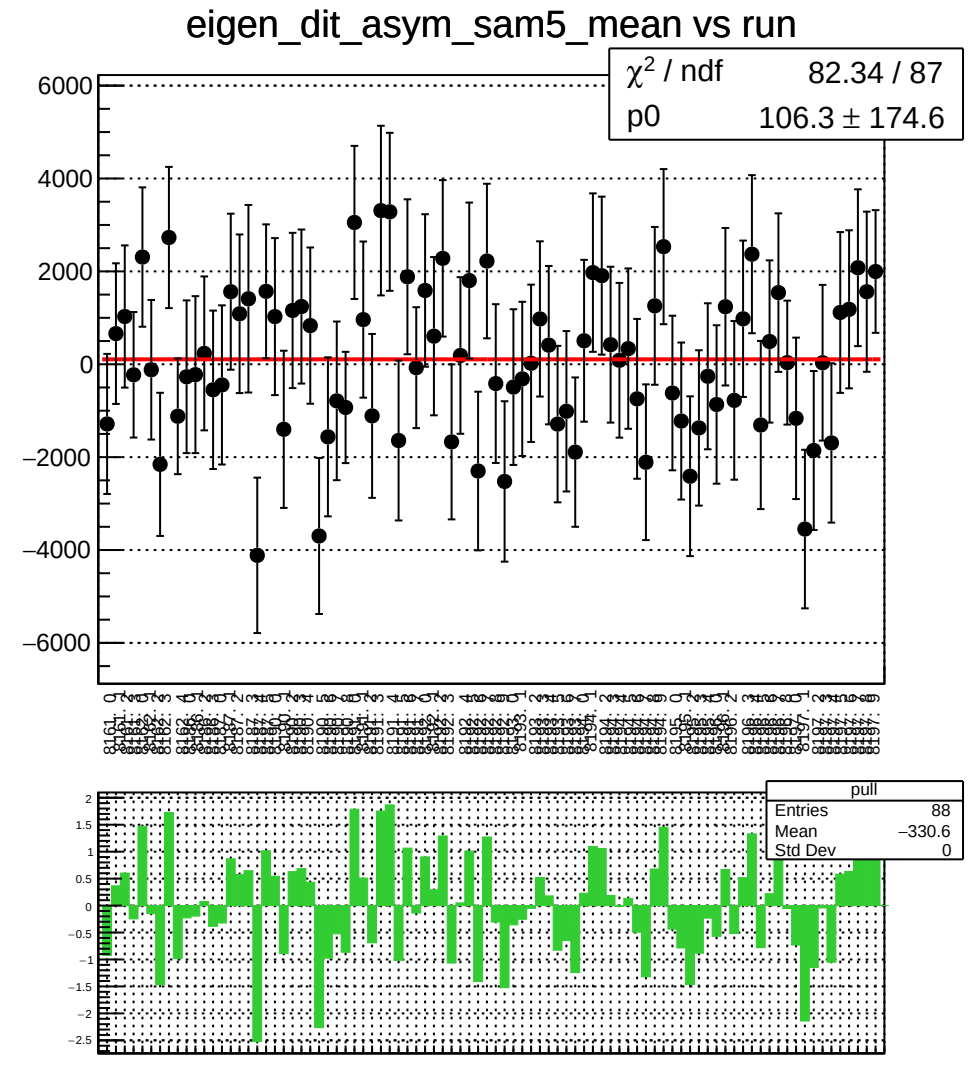

pull1D
Entries 88
Mean 0.000906
Std Dev 0.9673

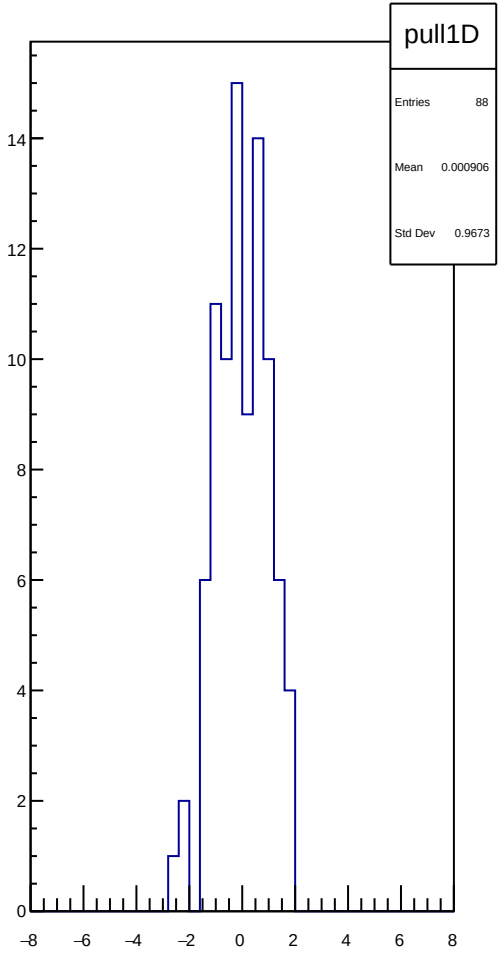

dit_asym_sam5_rms vs run
χ^2 / ndf 3425 / 87
p0 159.2 ± 0.1234
190
180
170
160
150
140

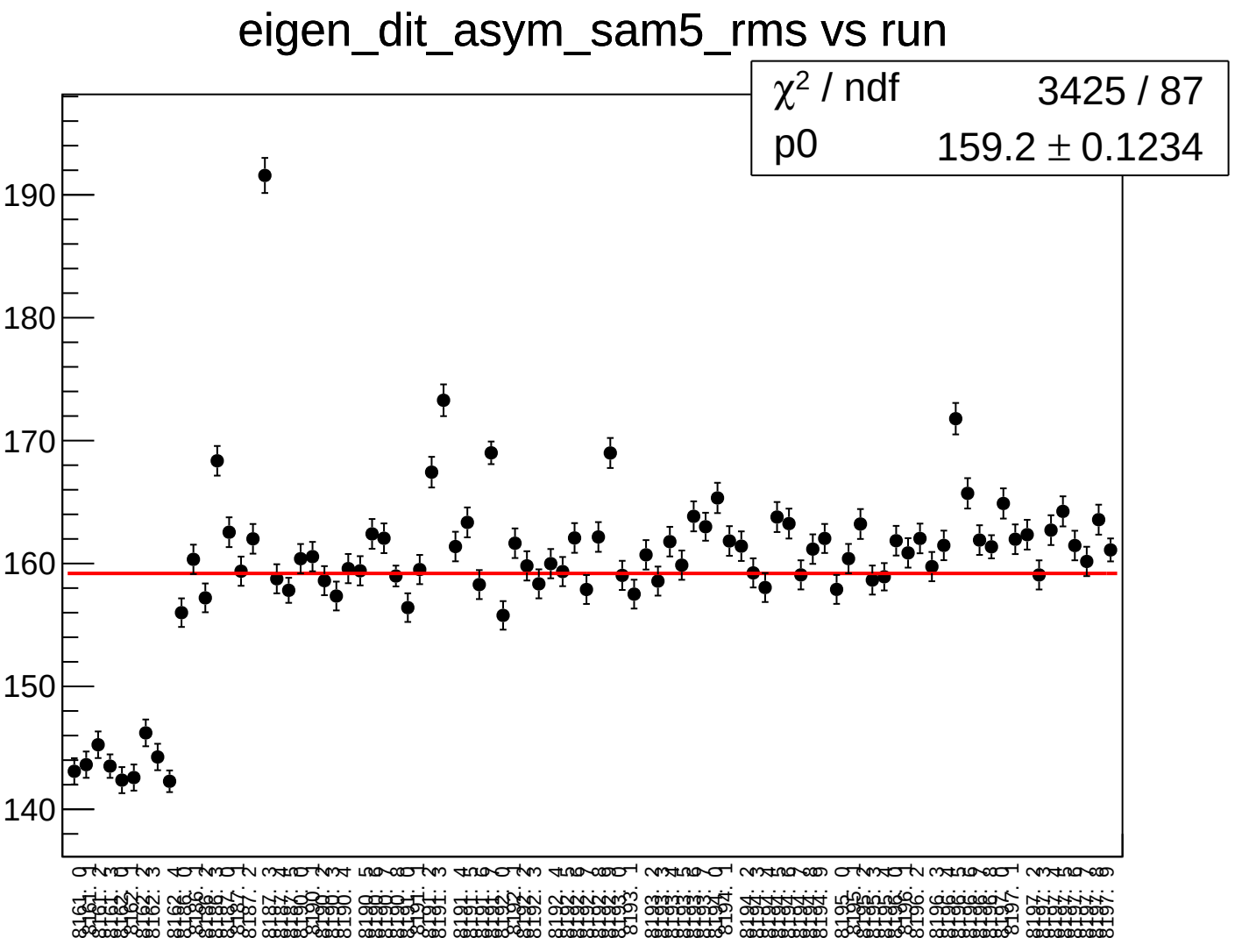

asym_sam5_dit_correction_mean vs run
χ² / ndf 93.58 / 87
p0 −4018 ± 1388
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 103.7
Std Dev 0
2
1
0
−1
−2
−3

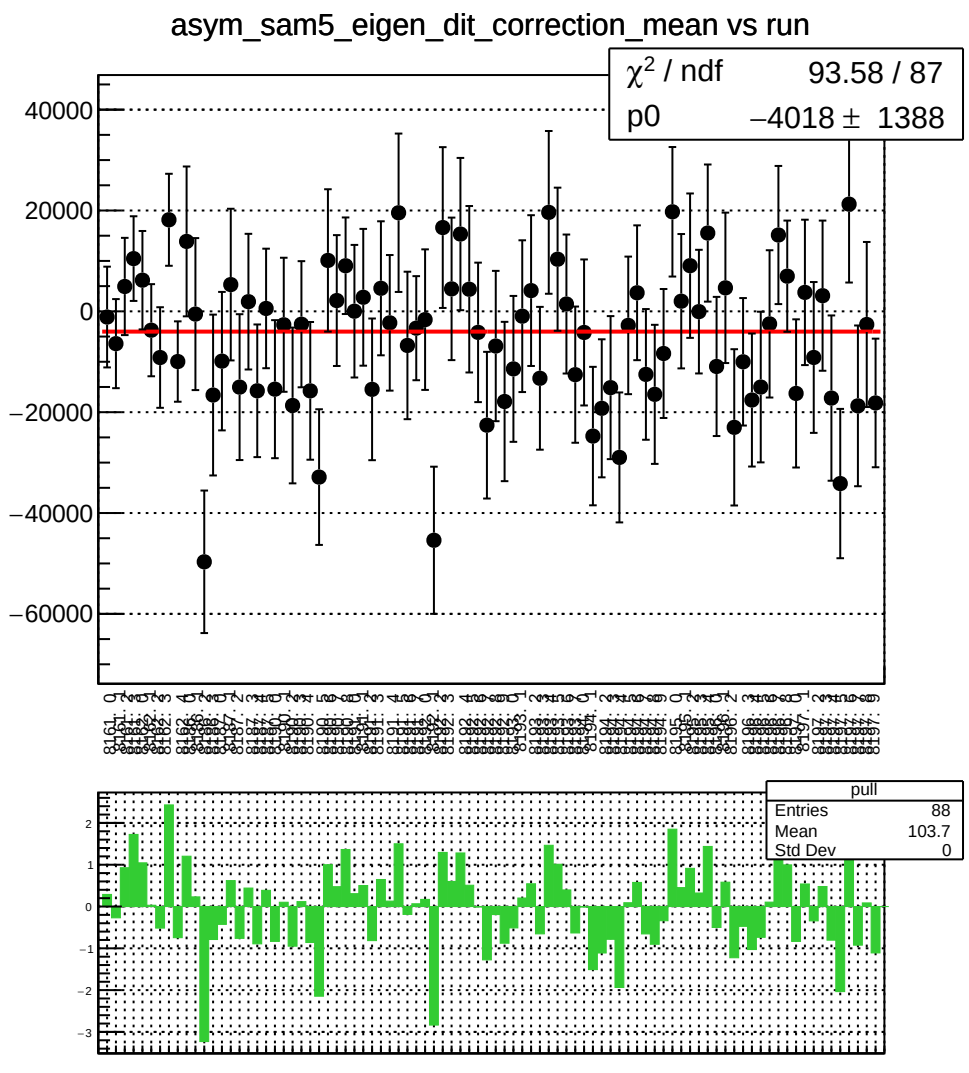

pull1D
Entries 88
Mean −0.03642
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

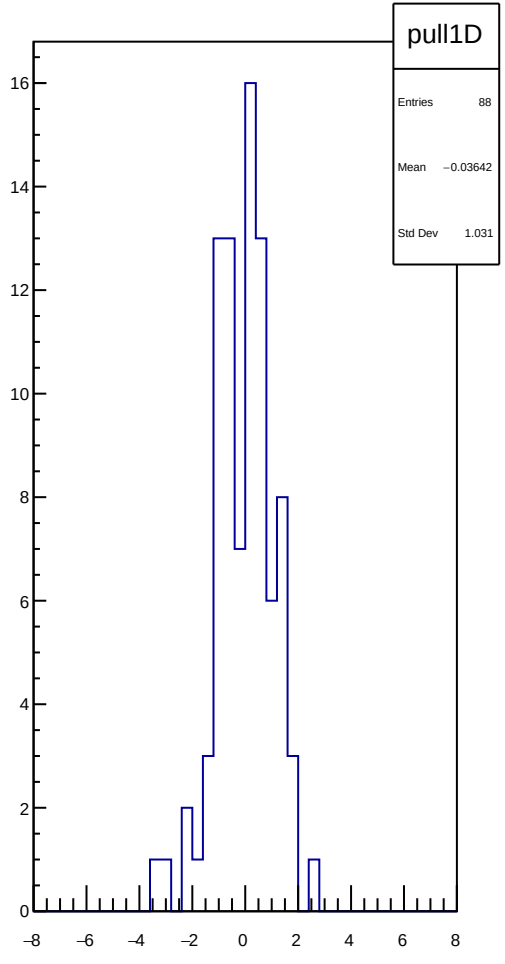

asym_sam5_dit_correction_rms vs run
χ² / ndf 4.165e+04 / 87
p0 1251 ± 0.9816
1600
1500
1400
1300
1200
1100
1000
900
800

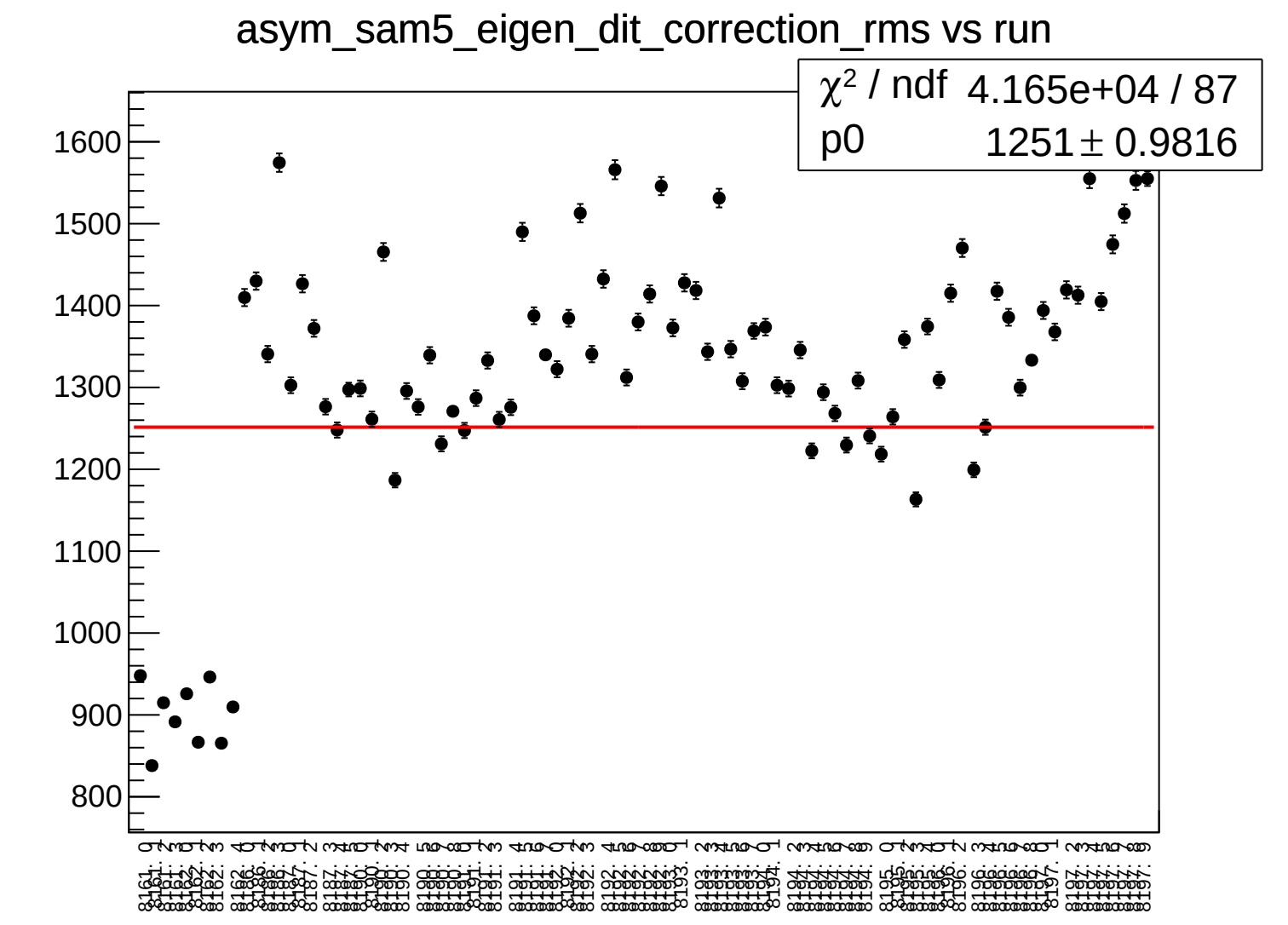

eigen_dit_asym_sam5_mean vs run
χ² / ndf 82.34 / 87
p0 106.3 ± 174.6
pull
Entries 88
Mean −330.6
Std Dev 0

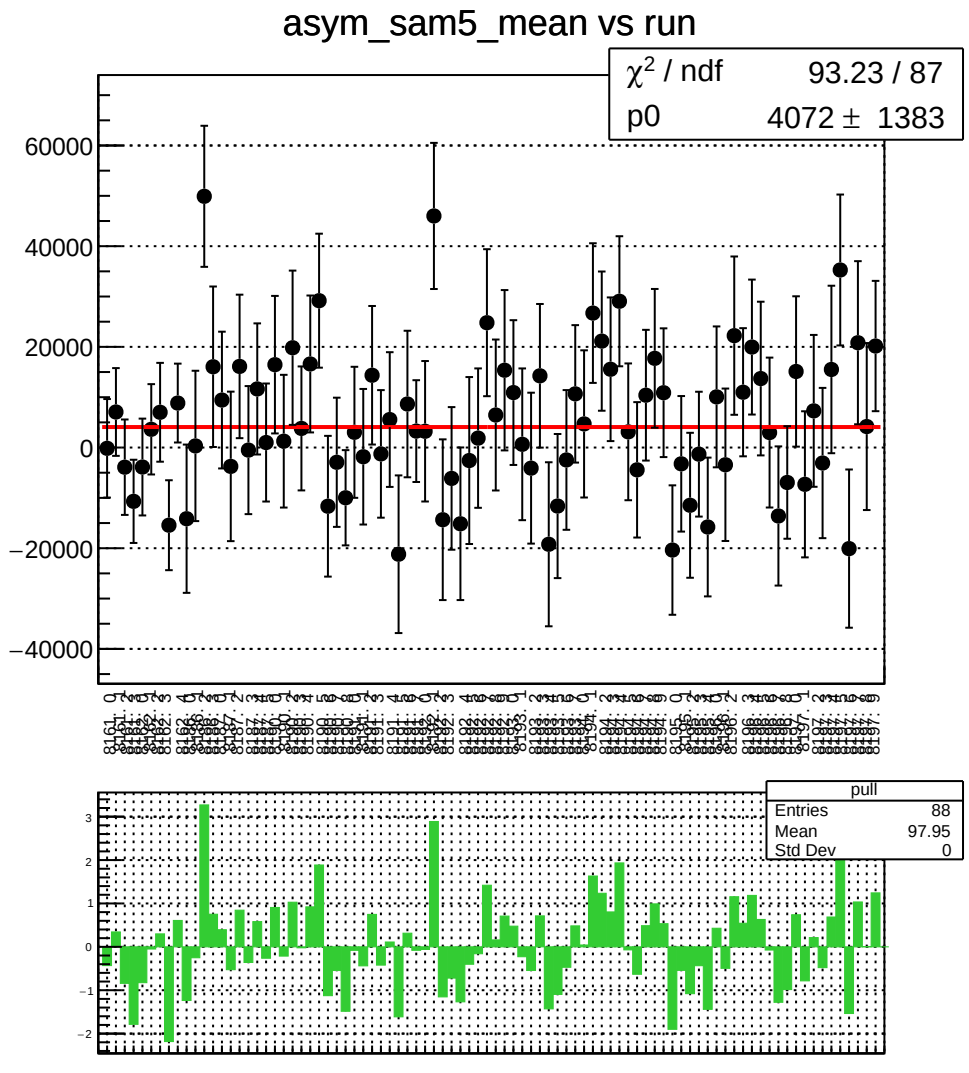

pull1D
Entries 88
Mean 0.000906
Std Dev 0.9673

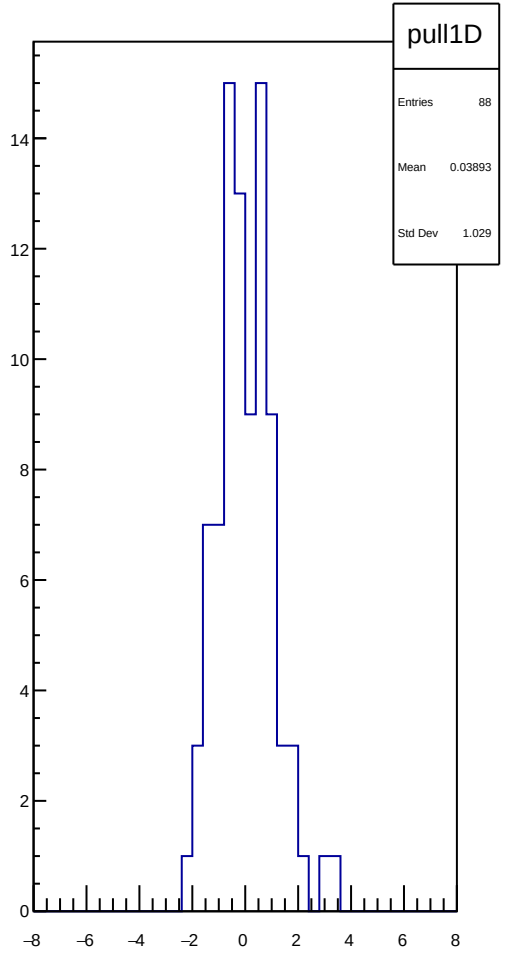

eigen_dit_asym_sam5_rms vs run
χ² / ndf 3425 / 87
p0 159.2 ± 0.1234
190
180
170
160
150
140

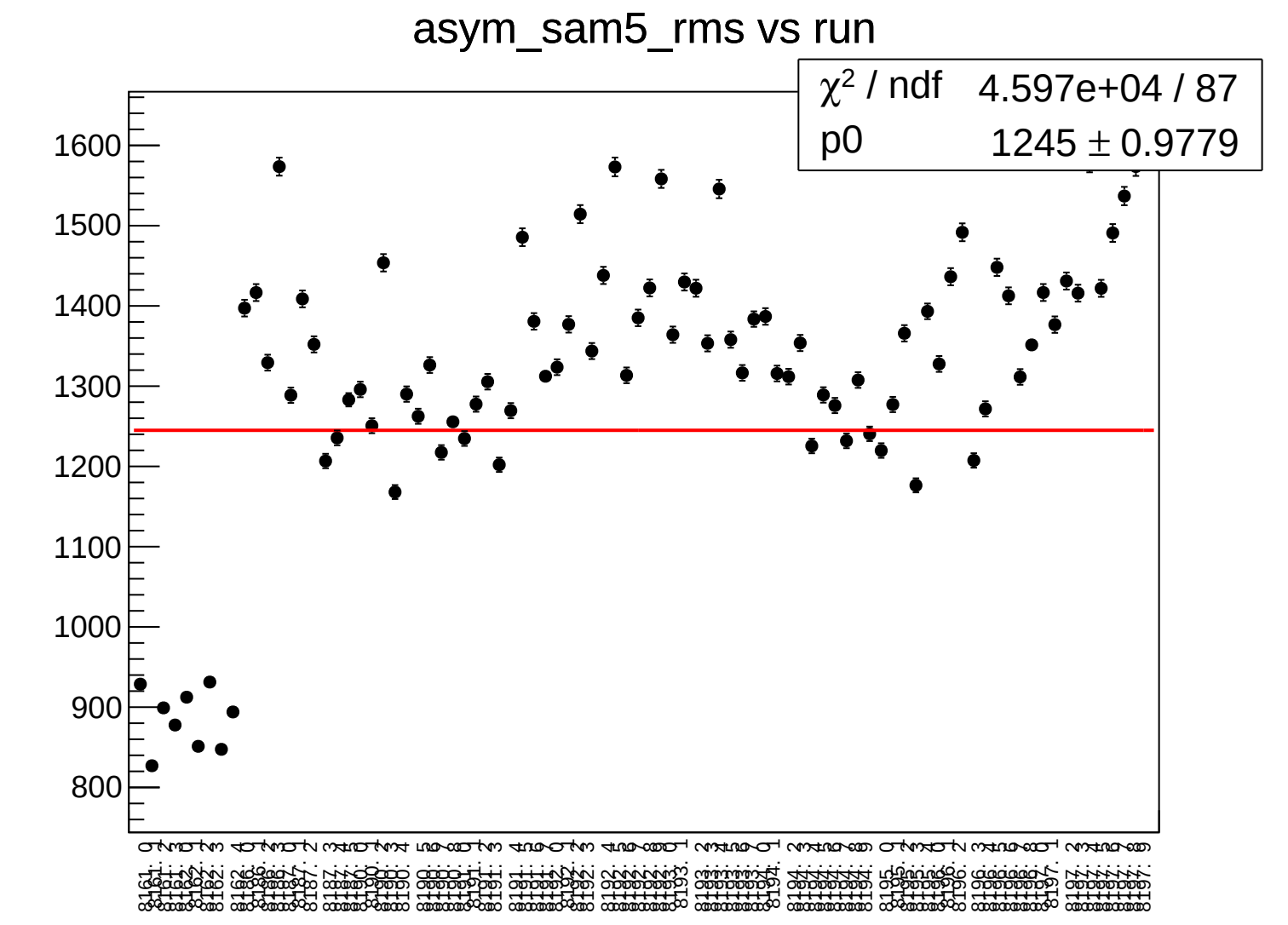

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 93.58 / 87
p0 −4018 ± 1388
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 103.7
Std Dev 0
2
1
0
−1
−2
−3

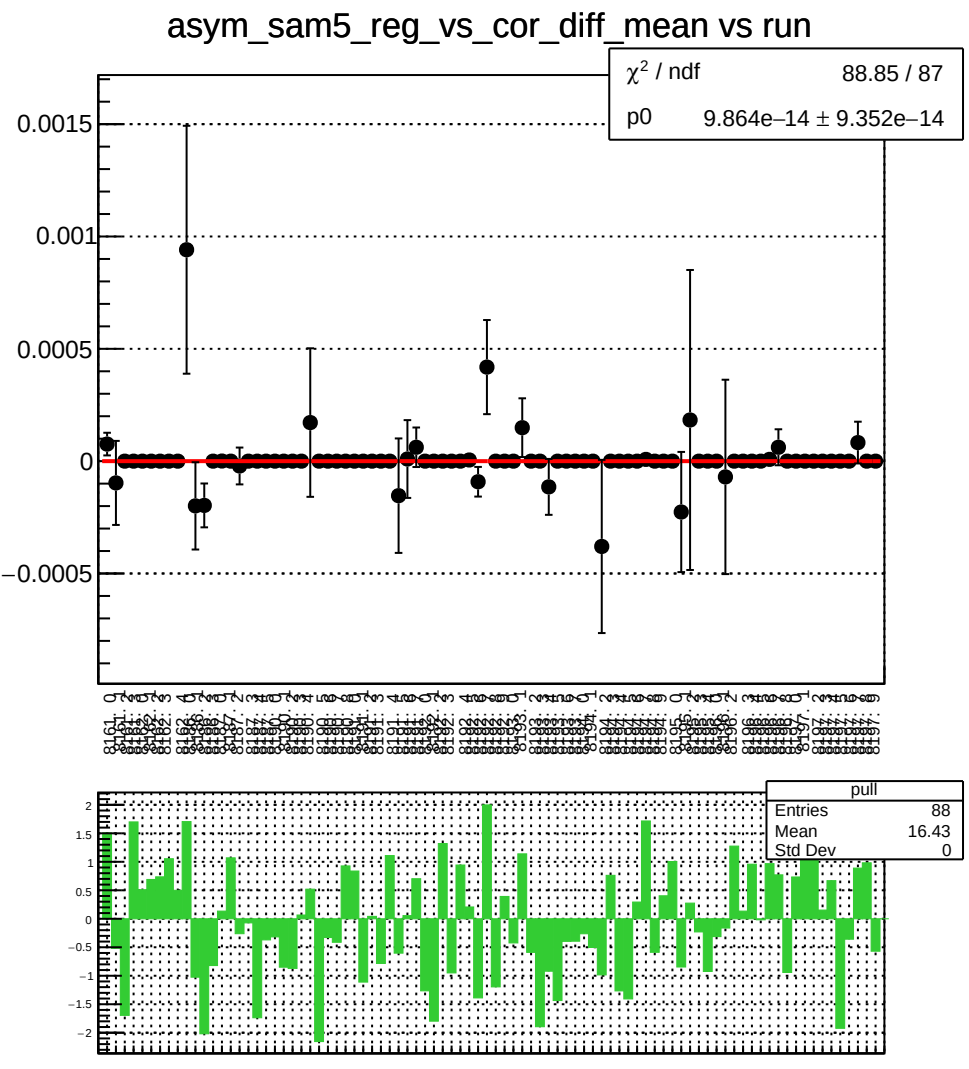

pull1D
Entries 88
Mean −0.03642
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

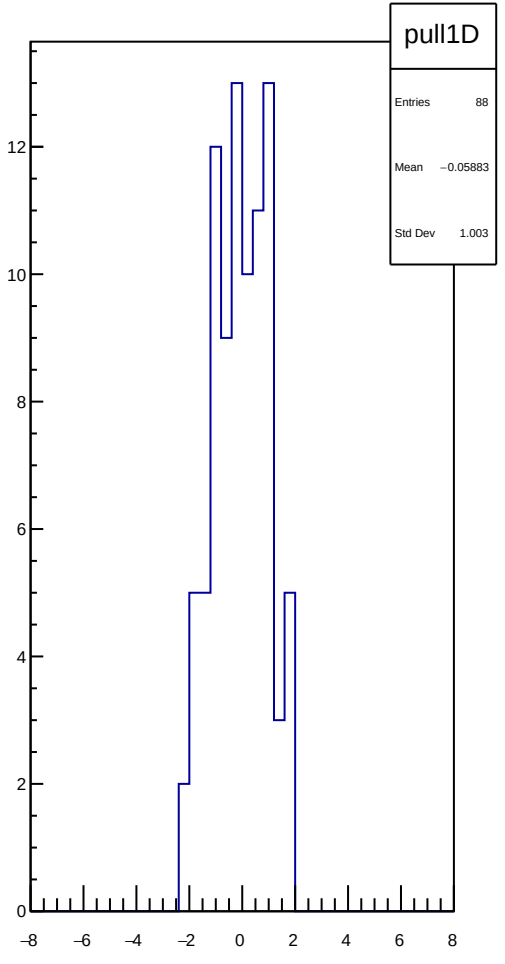

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 4.165e+04 / 87
p0 1251 ± 0.9816
1600
1500
1400
1300
1200
1100
1000
900
800

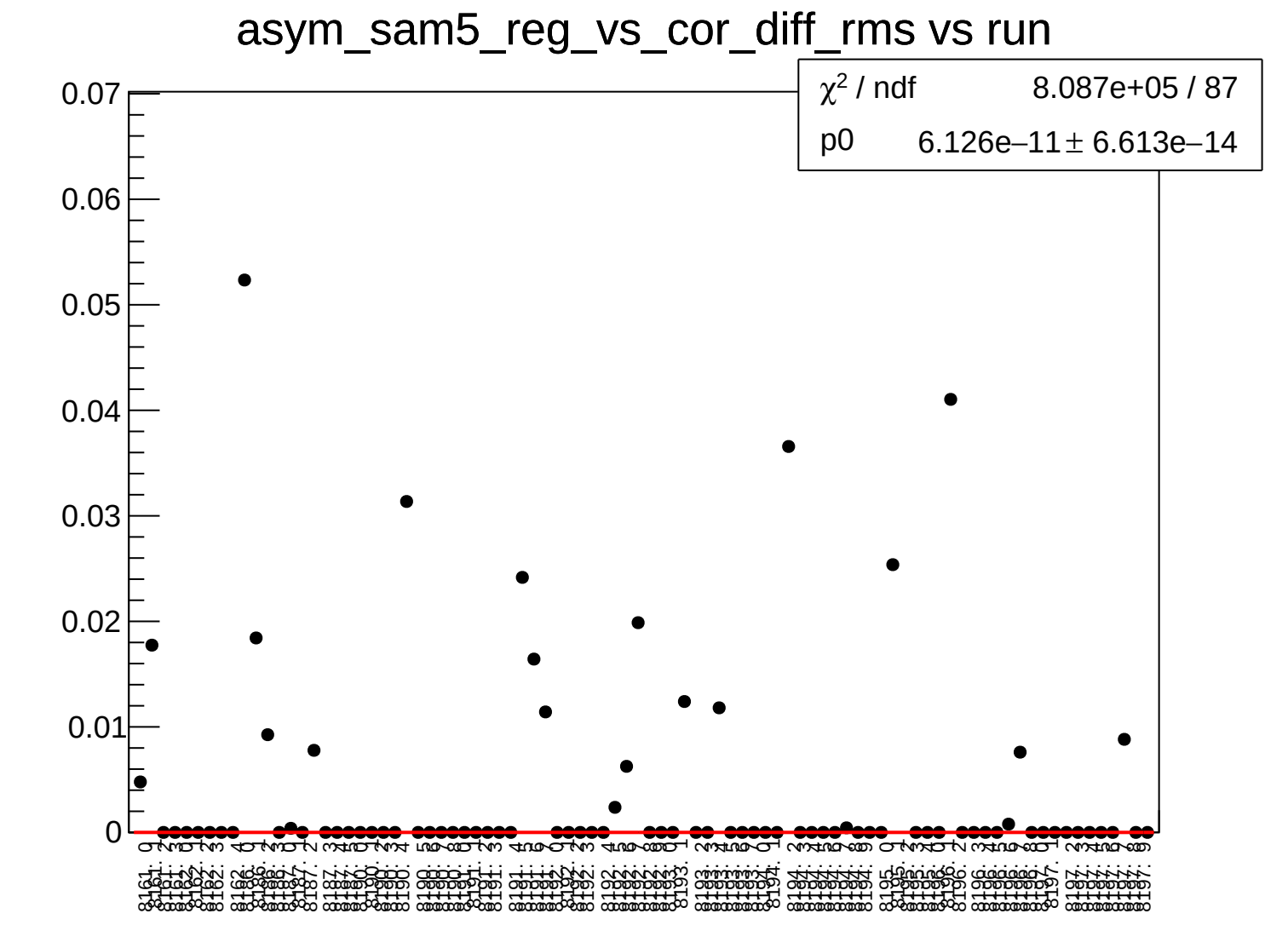

asym_sam5_mean vs run
χ² / ndf 93.23 / 87
p0 4072 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 97.95
Std Dev 0
3
2
1
0
−1
−2

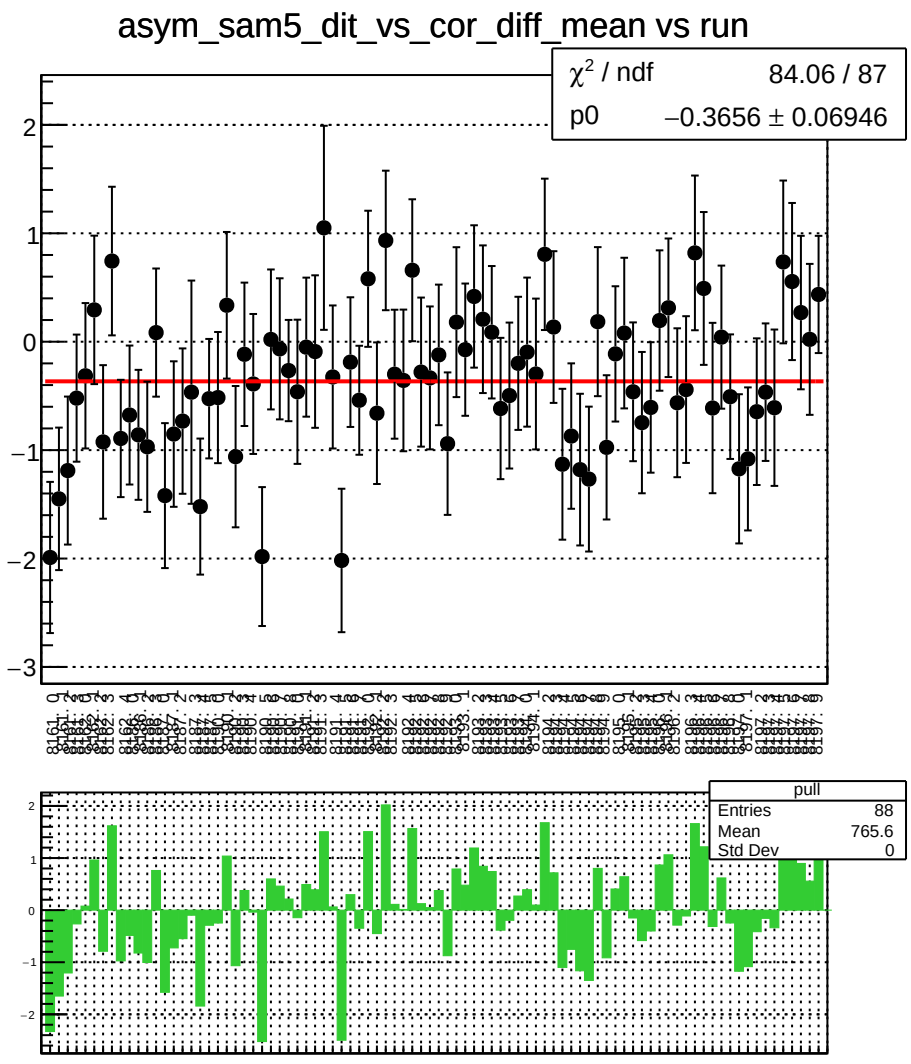

pull1D
Entries 88
Mean 0.03893
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

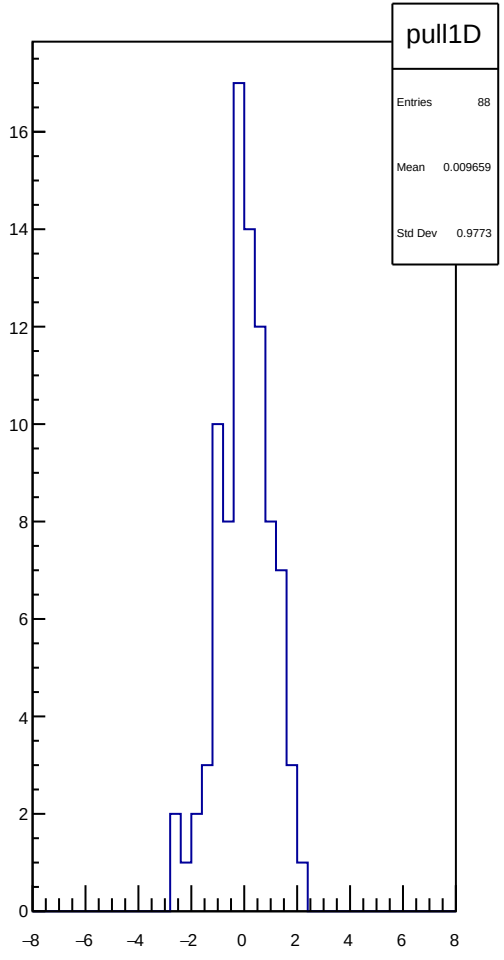

asym_sam5_rms vs run
χ² / ndf 4.597e+04 / 87
p0 1245 ± 0.9779
1600
1500
1400
1300
1200
1100
1000
900
800

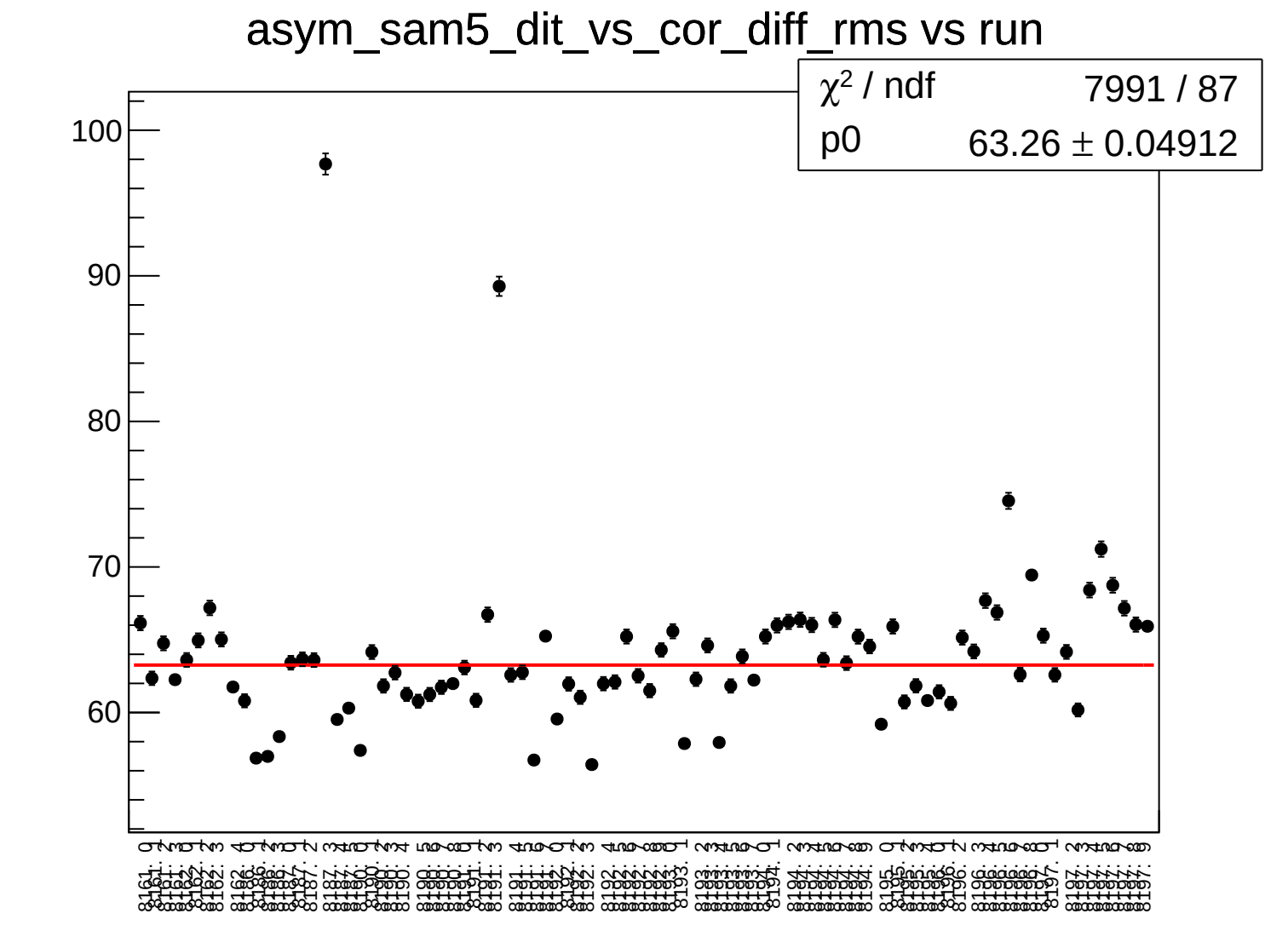

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 88.85 / 87
p0 9.864e−14 ± 9.352e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 88
Mean 16.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

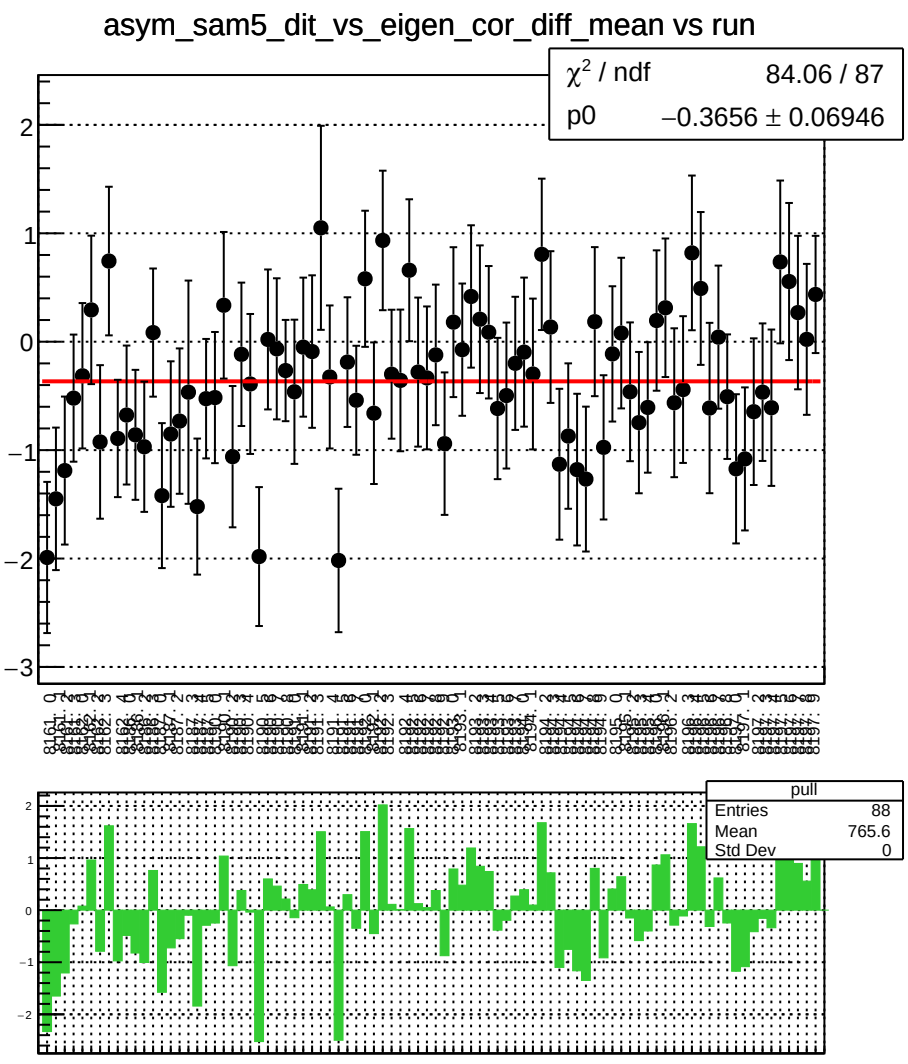

pull1D
Entries 88
Mean −0.05883
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

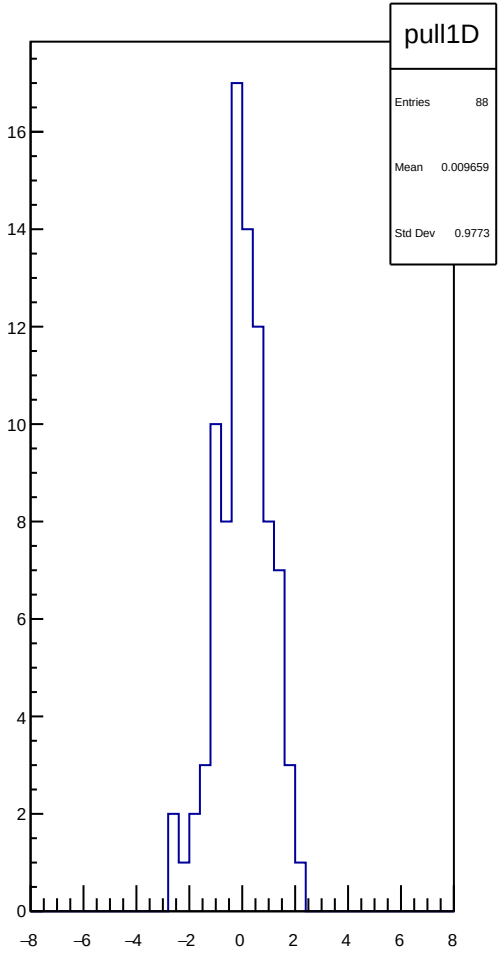

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 8.087e+05 / 87
p0 6.126e−11 ± 6.613e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

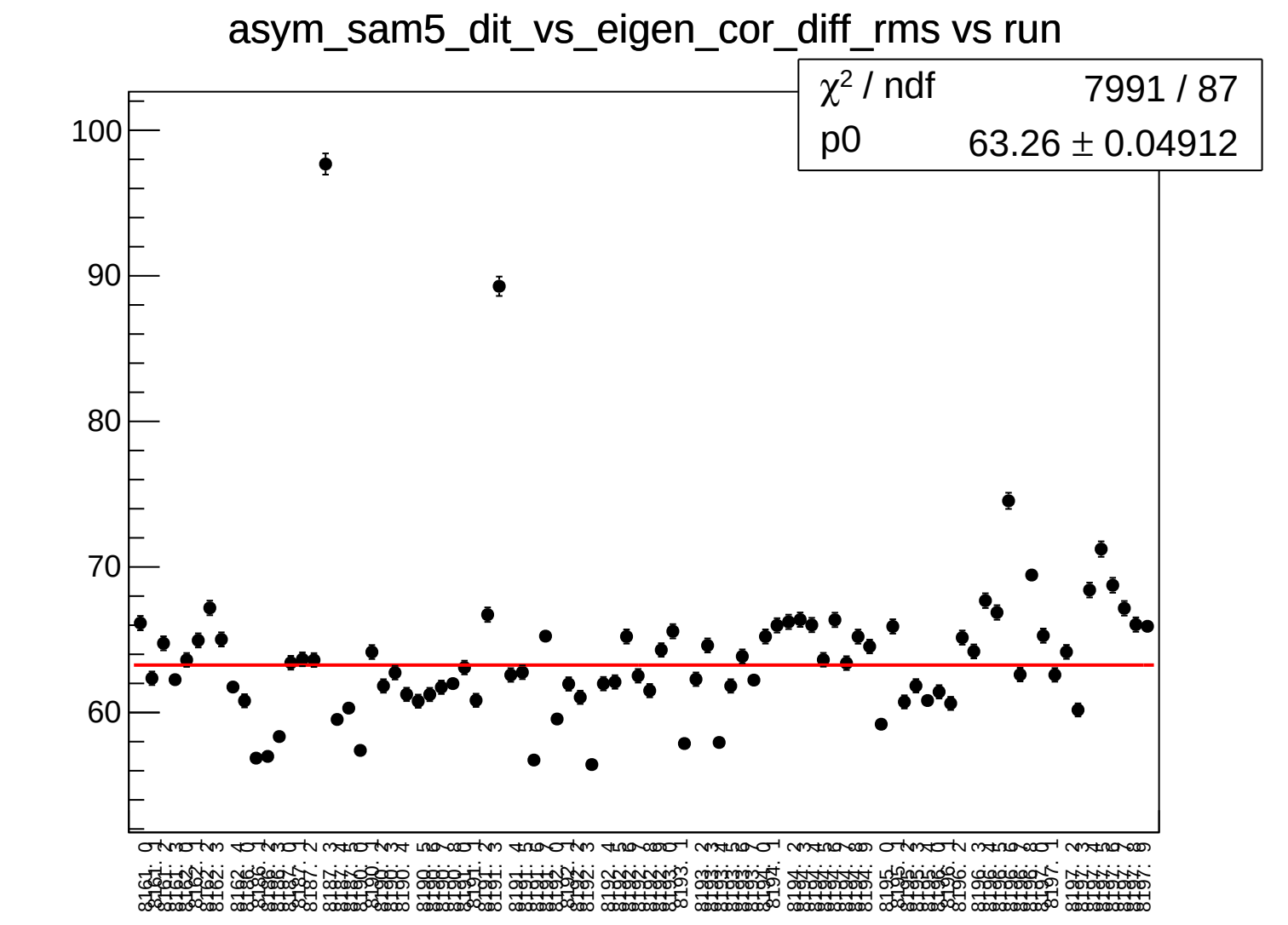

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 84.06 / 87
p0 −0.3656 ± 0.06946
pull
Entries 88
Mean 765.6
Std Dev 0

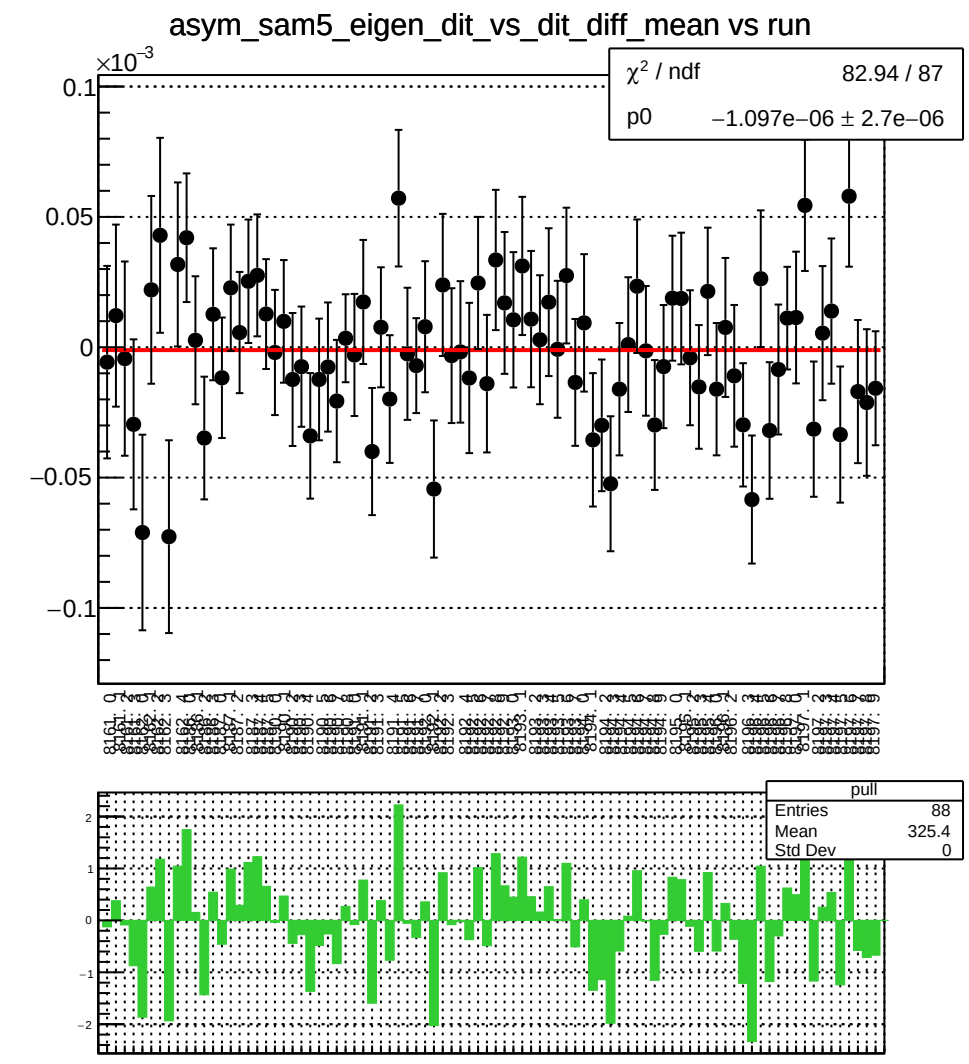

pull1D
Entries 88
Mean 0.009659
Std Dev 0.9773

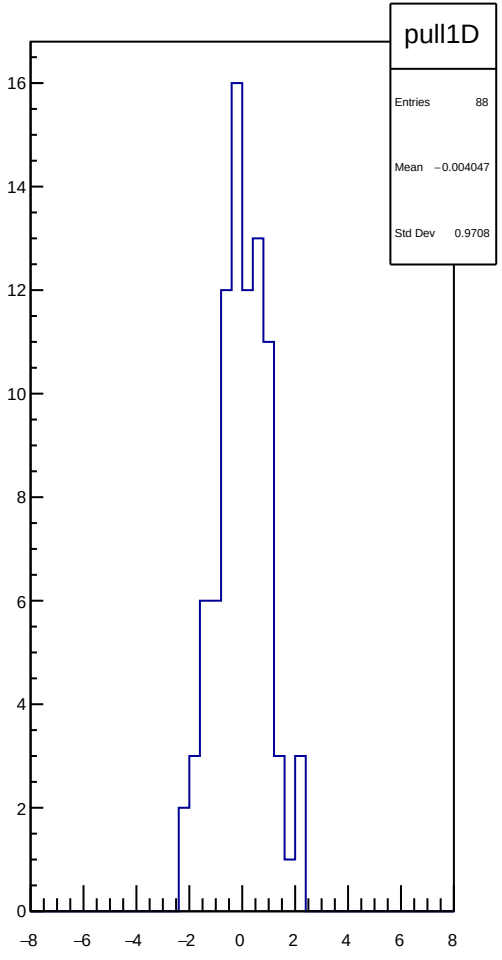

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 7991 / 87
p0 63.26 ± 0.04912
100
90
80
70
60

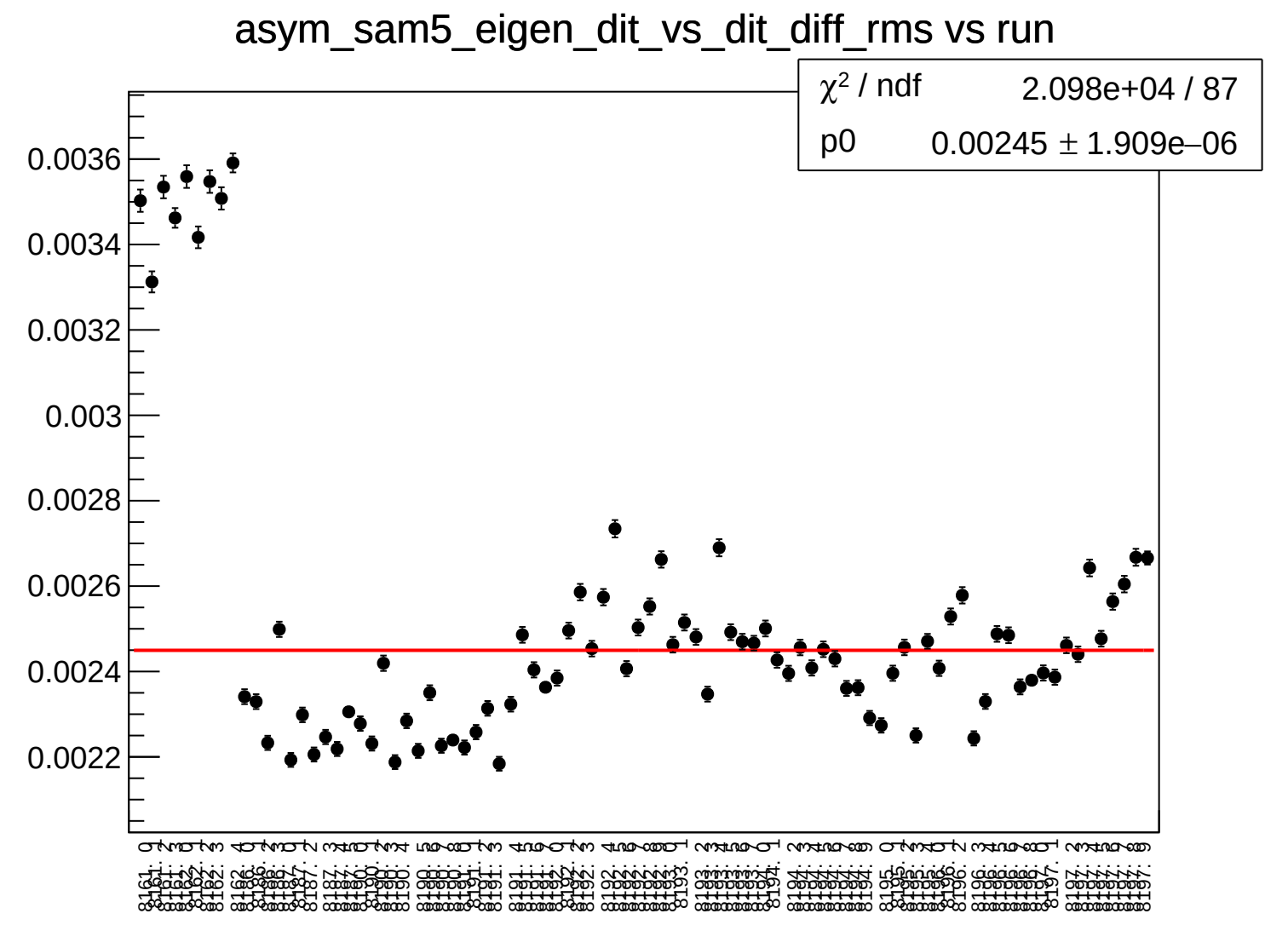

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.06 / 87
p0 −0.3656 ± 0.06946
pull
Entries 88
Mean 765.6
Std Dev 0

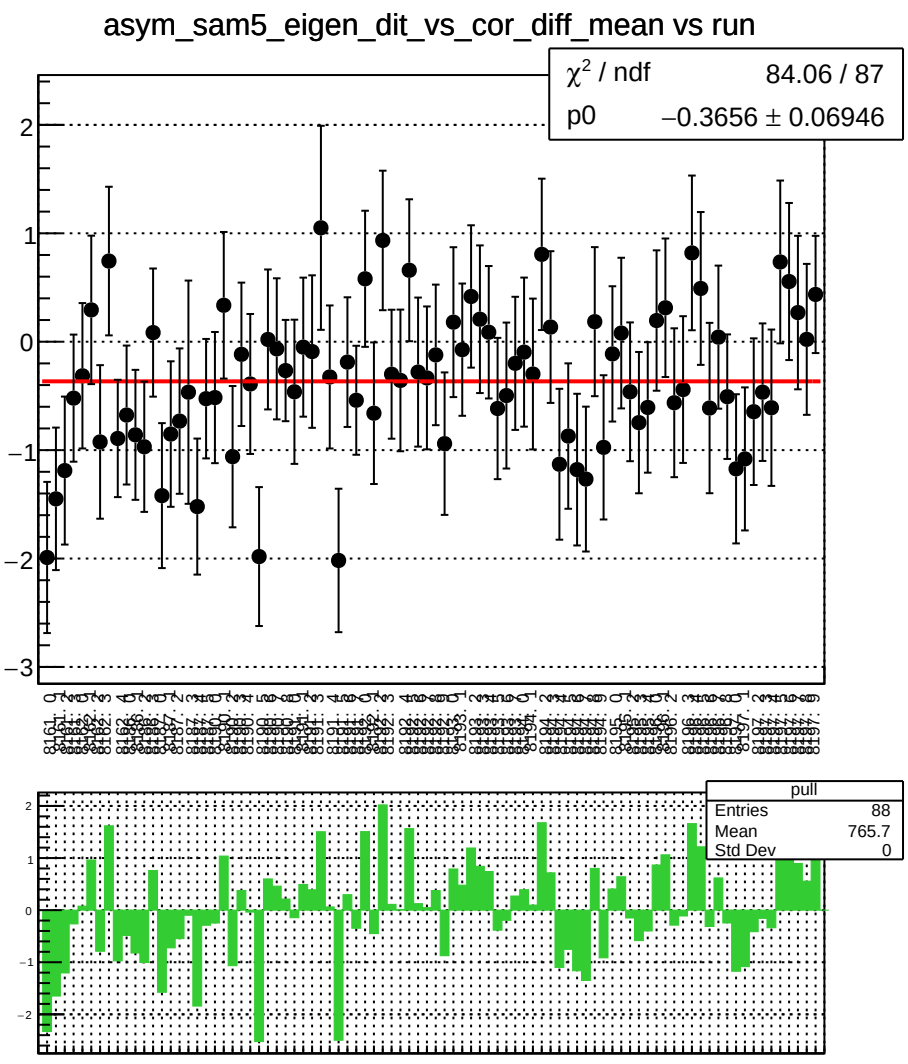

pull1D
Entries 88
Mean 0.009659
Std Dev 0.9773

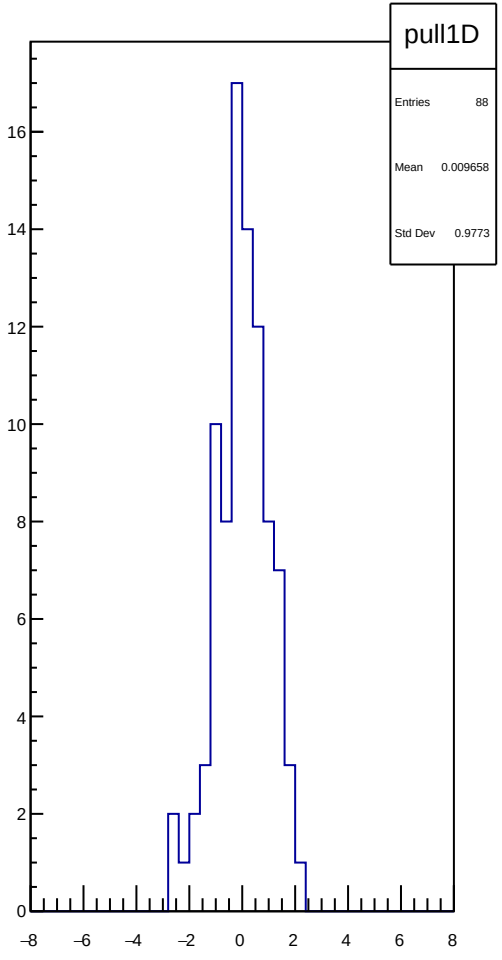

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7991 / 87
p0 63.26 ± 0.04912
100
90
80
70
60

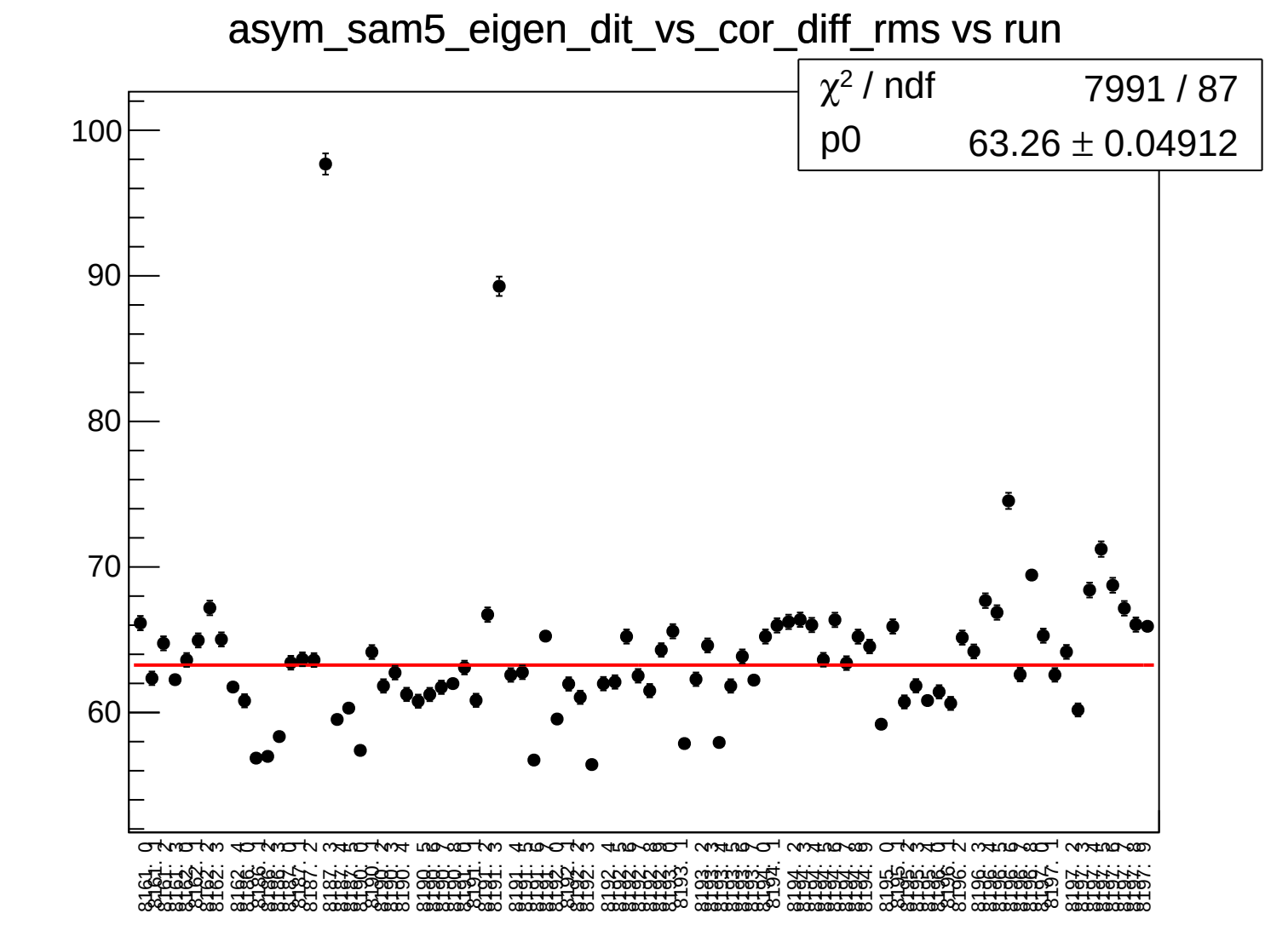

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.94 / 87
p0 −1.097e−06 ± 2.7e−06
pull
Entries 88
Mean 325.4
Std Dev 0

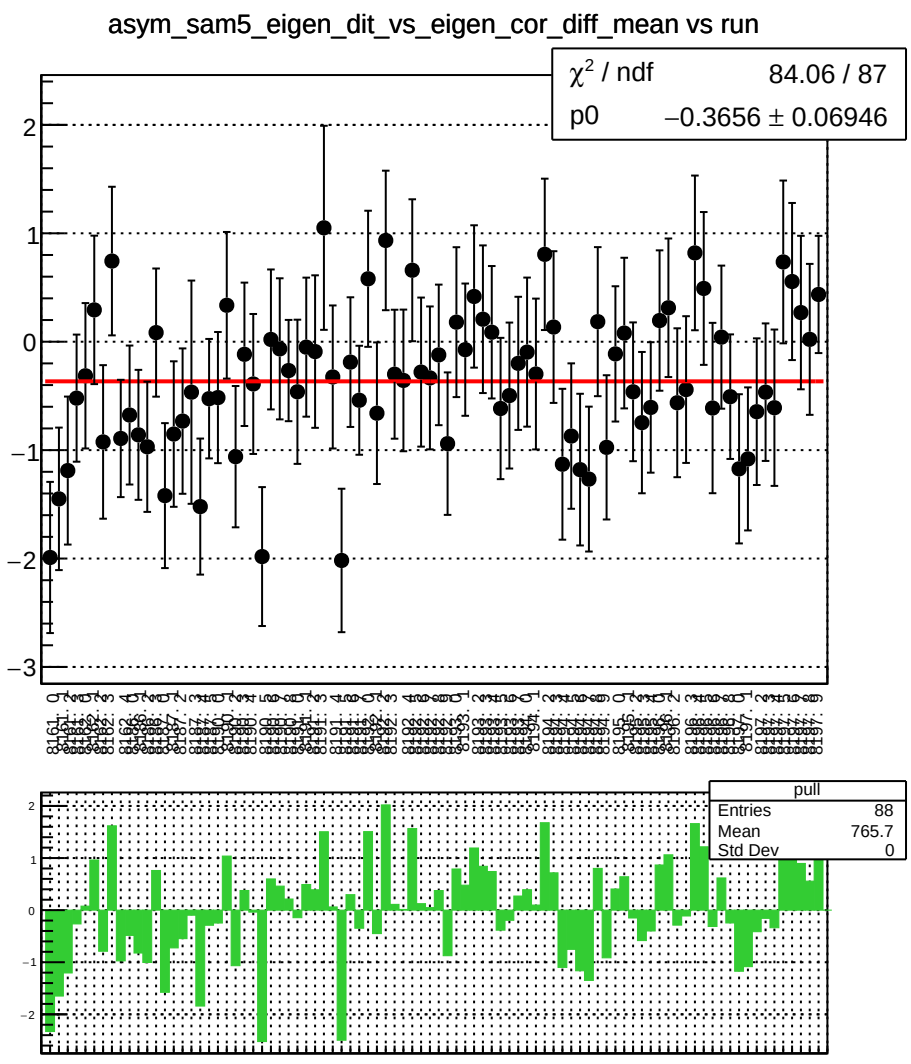

pull1D
Entries 88
Mean −0.004047
Std Dev 0.9708

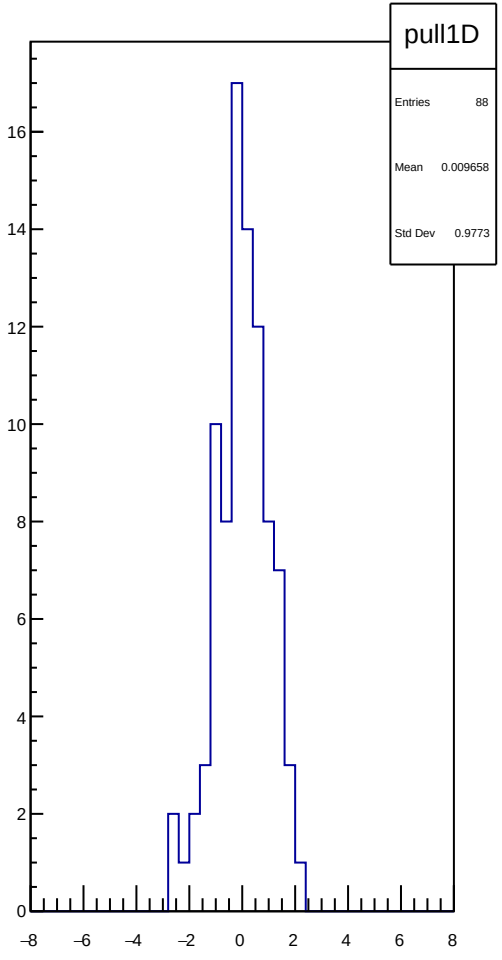

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.098e+04 / 87
p0 0.00245 ± 1.909e–06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

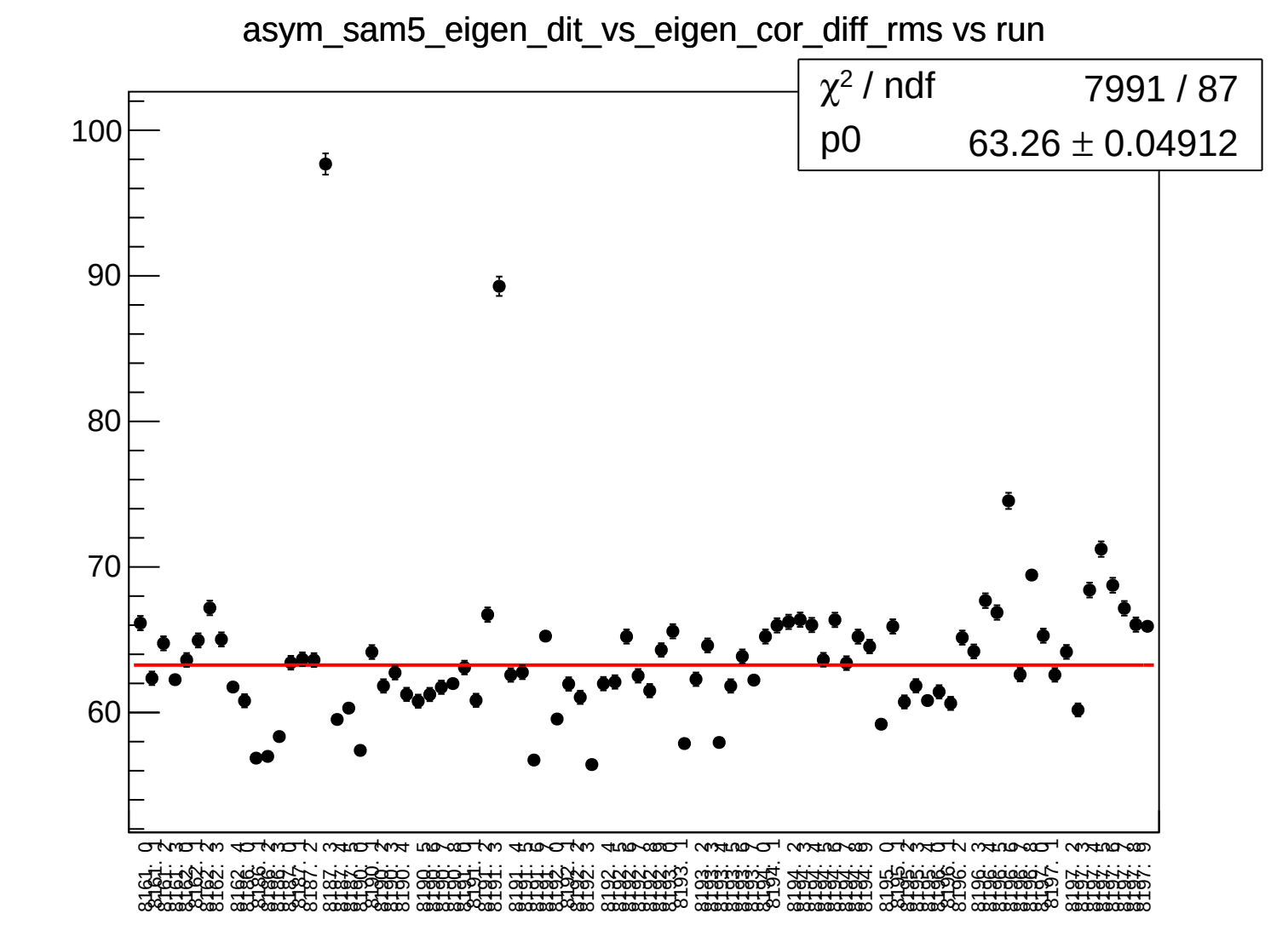

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.06 / 87
p0 −0.3656 ± 0.06946
pull
Entries 88
Mean 765.7
Std Dev 0

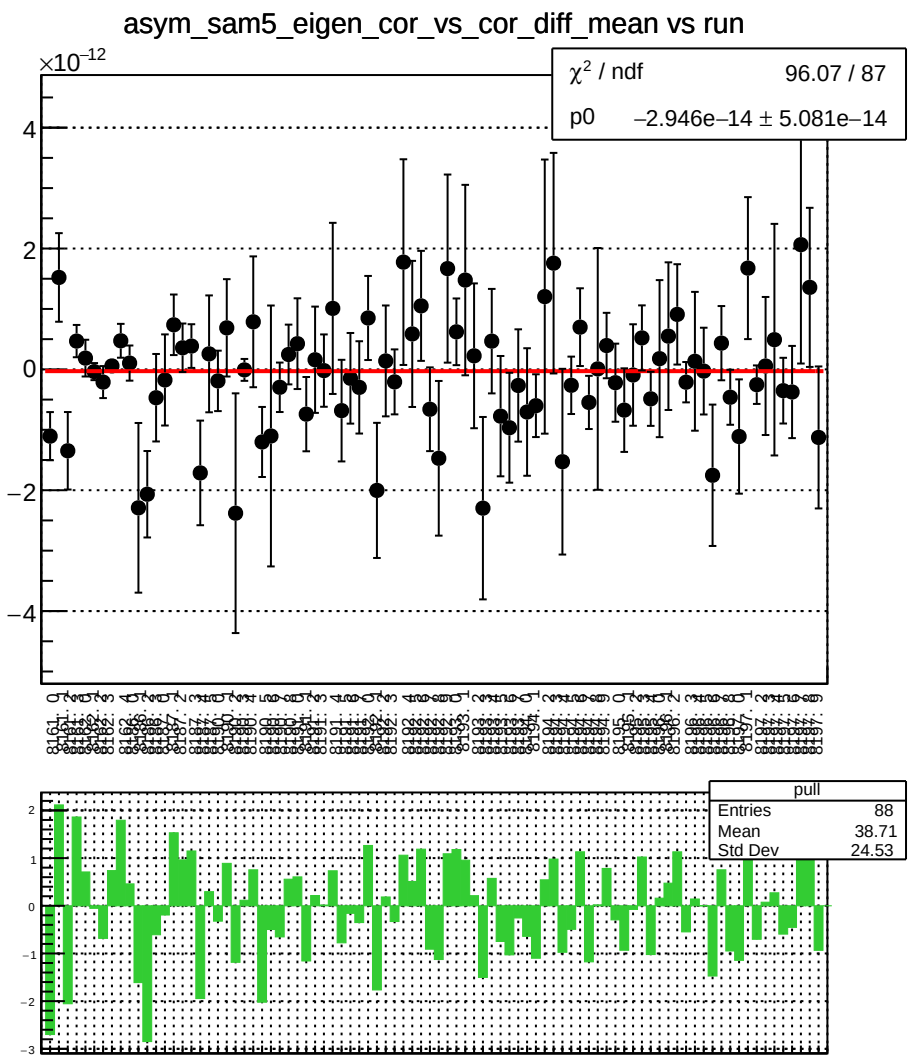

pull1D
Entries 88
Mean 0.009658
Std Dev 0.9773

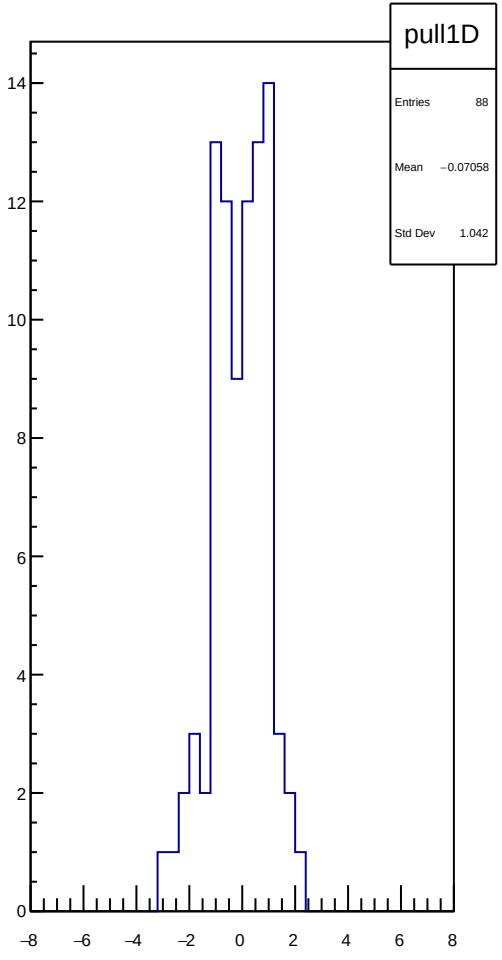

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7991 / 87
p0 63.26 ± 0.04912
100
90
80
70
60

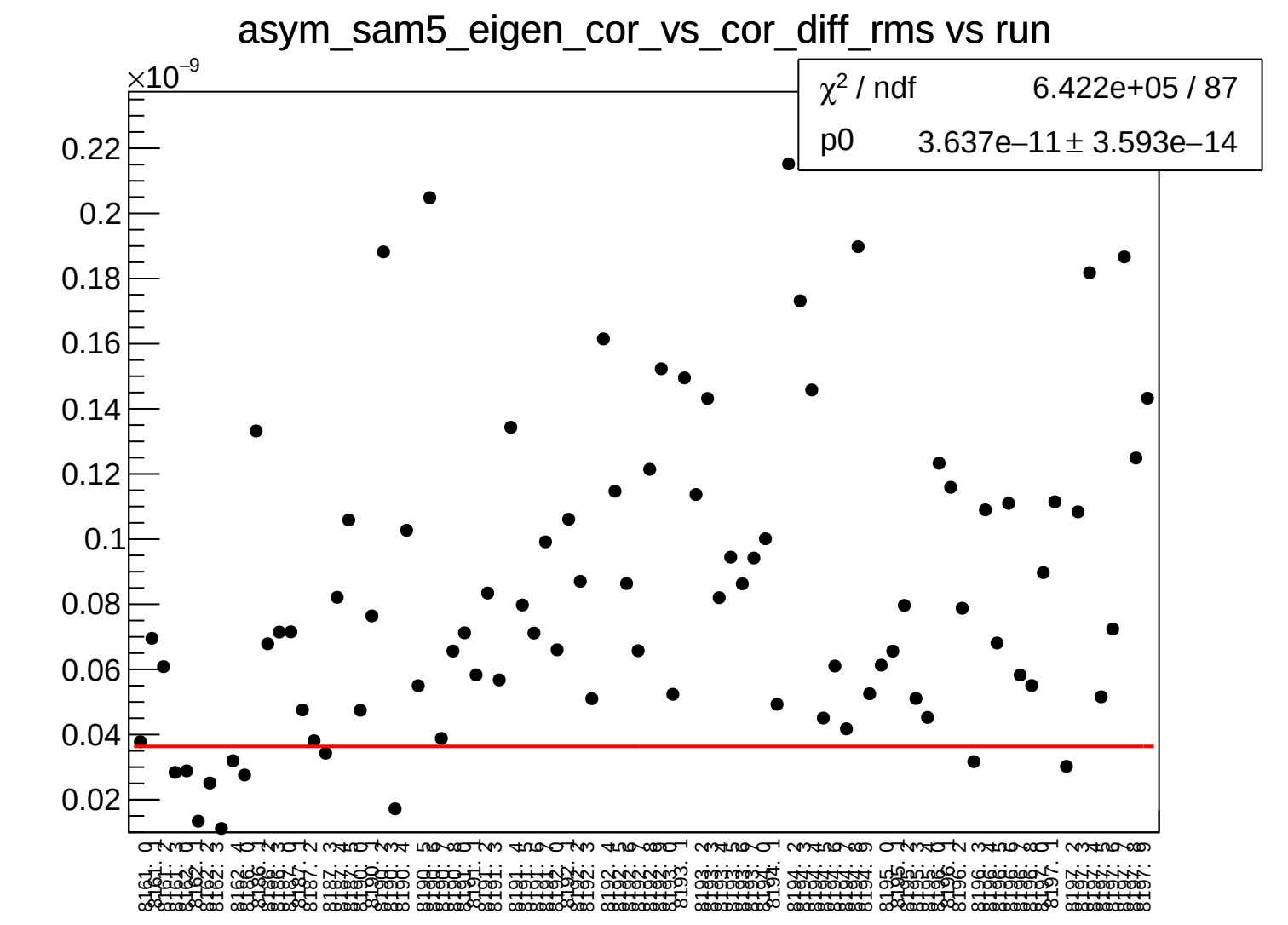

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.06 / 87
p0 −0.3656 ± 0.06946
pull
Entries 88
Mean 765.7
Std Dev 0

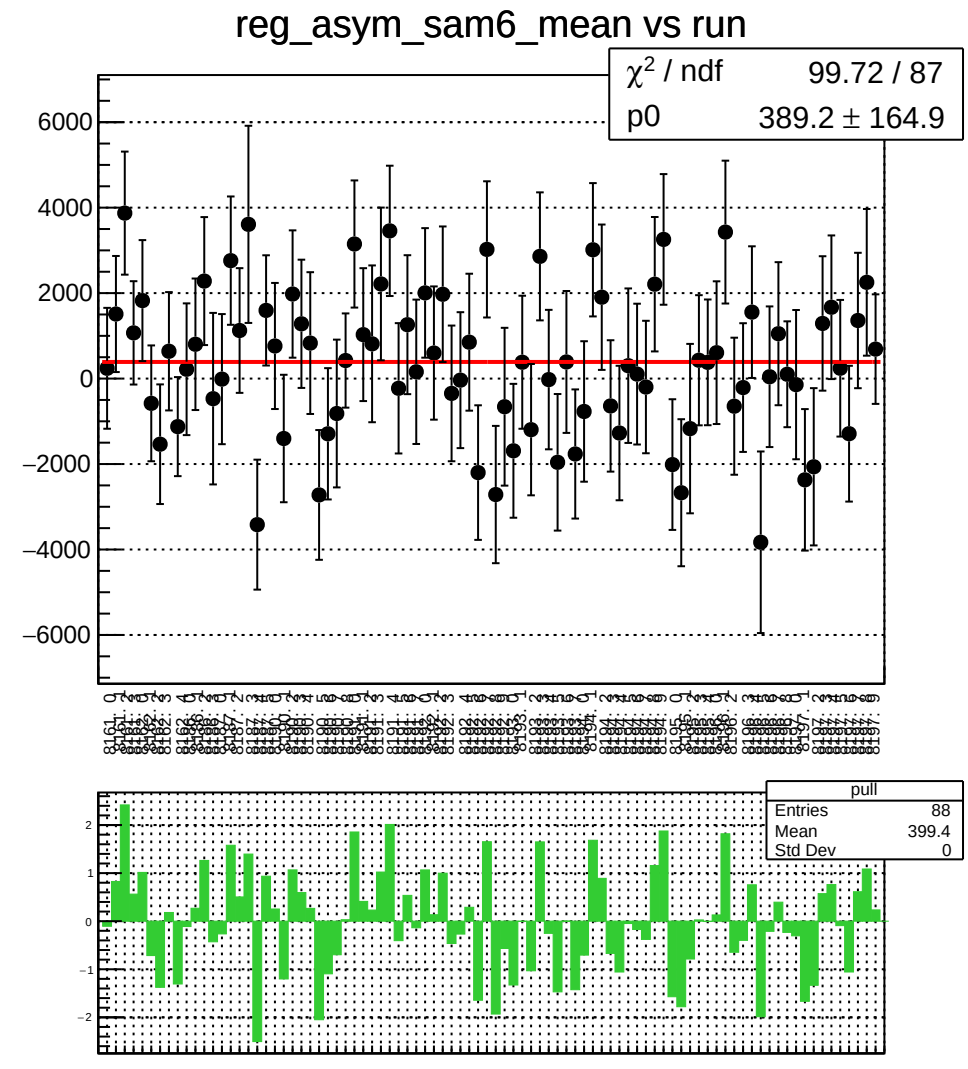

pull1D
Entries 88
Mean 0.009658
Std Dev 0.9773

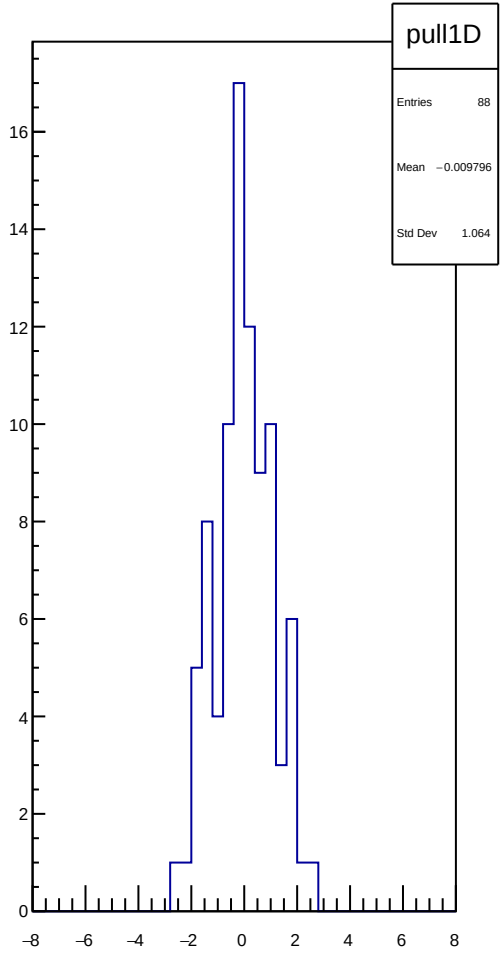

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7991 / 87
p0 63.26 ± 0.04912
100
90
80
70
60

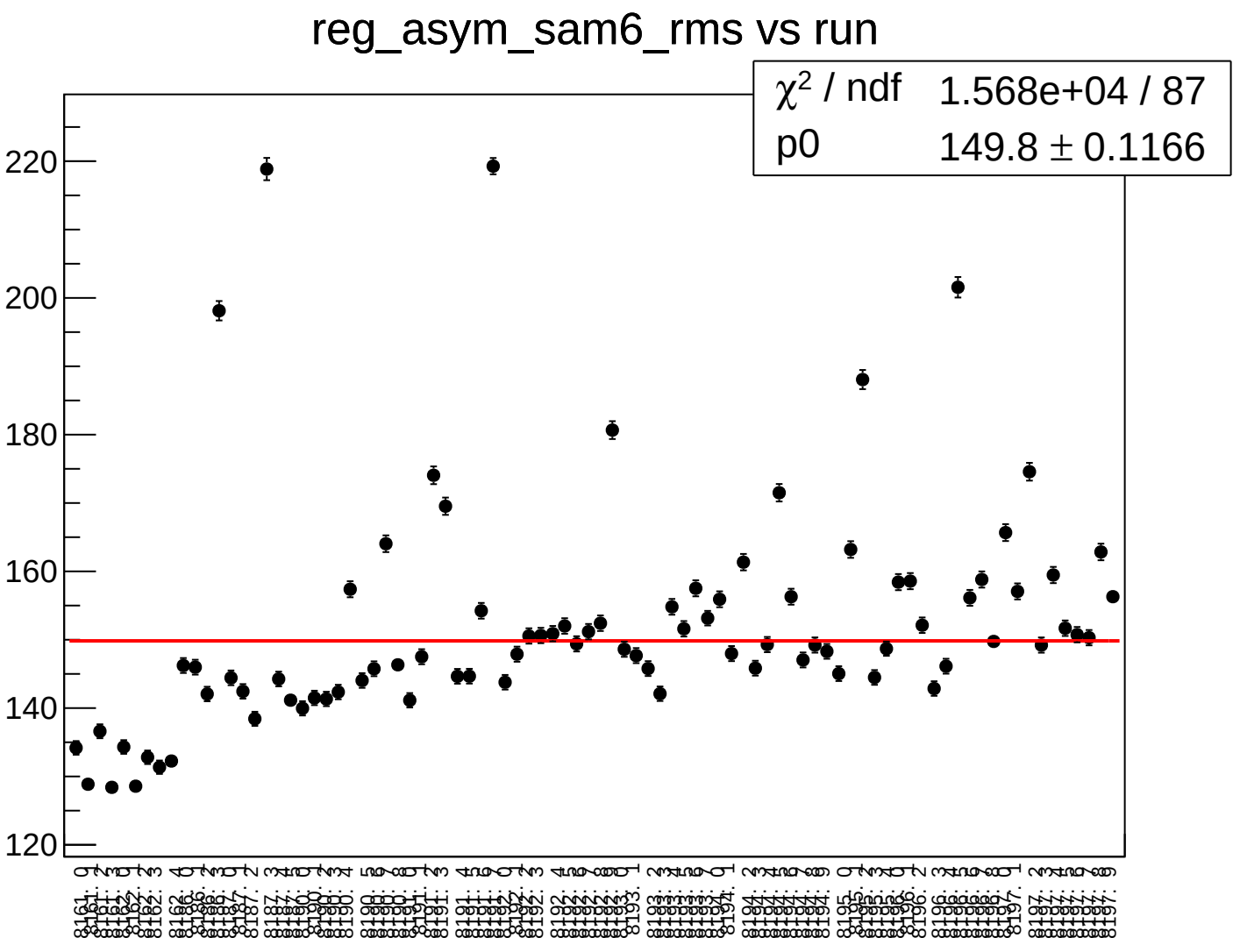

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.07 / 87
p0 −2.946e−14 ± 5.081e−14
pull
Entries 88
Mean 38.71
Std Dev 24.53

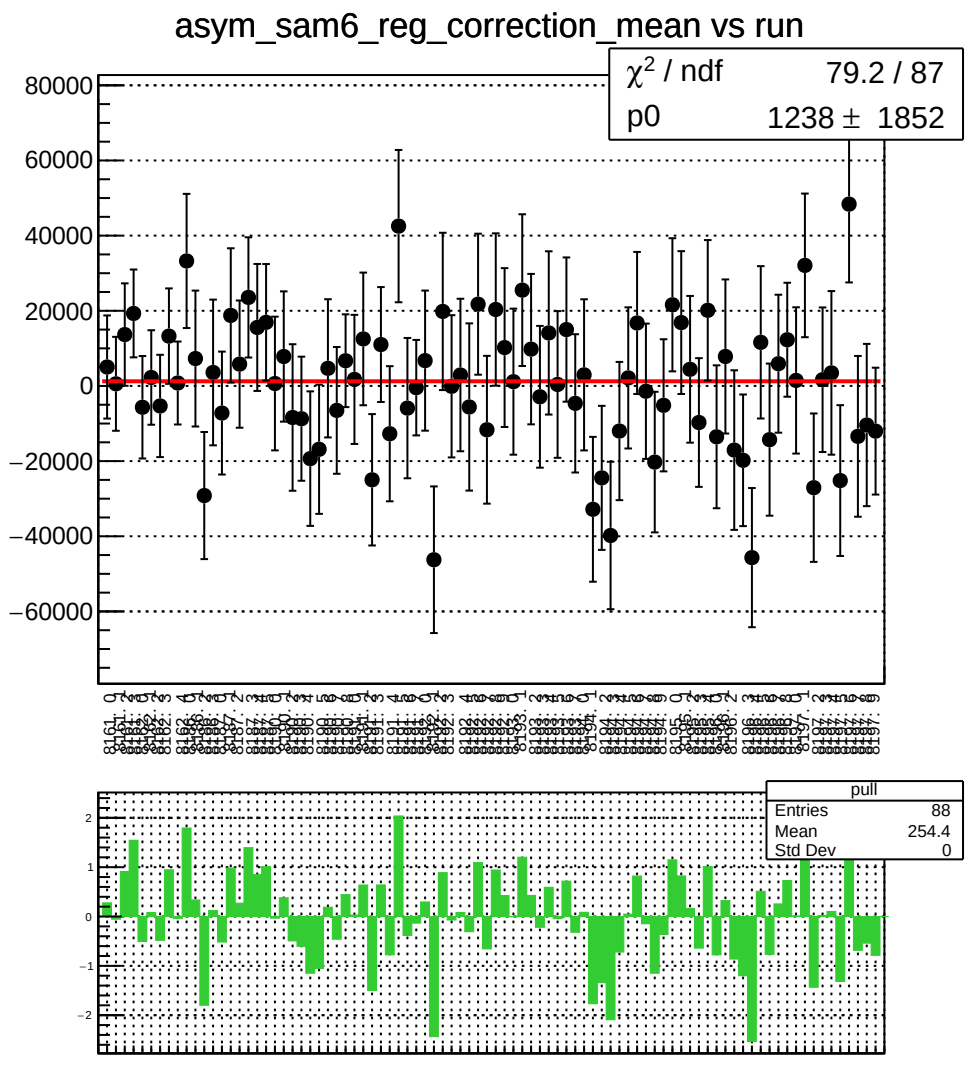

pull1D
Entries 88
Mean −0.07058
Std Dev 1.042

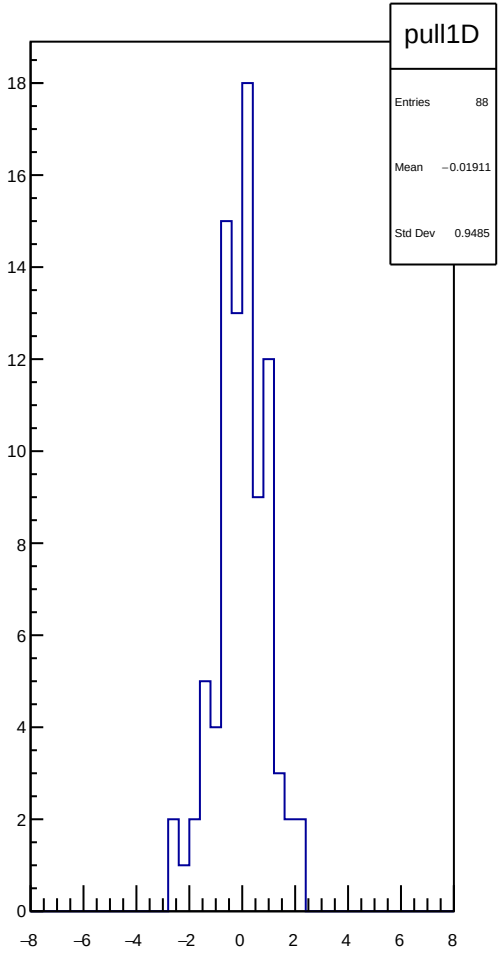

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.422e+05 / 87
p0 3.637e−11 ± 3.593e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

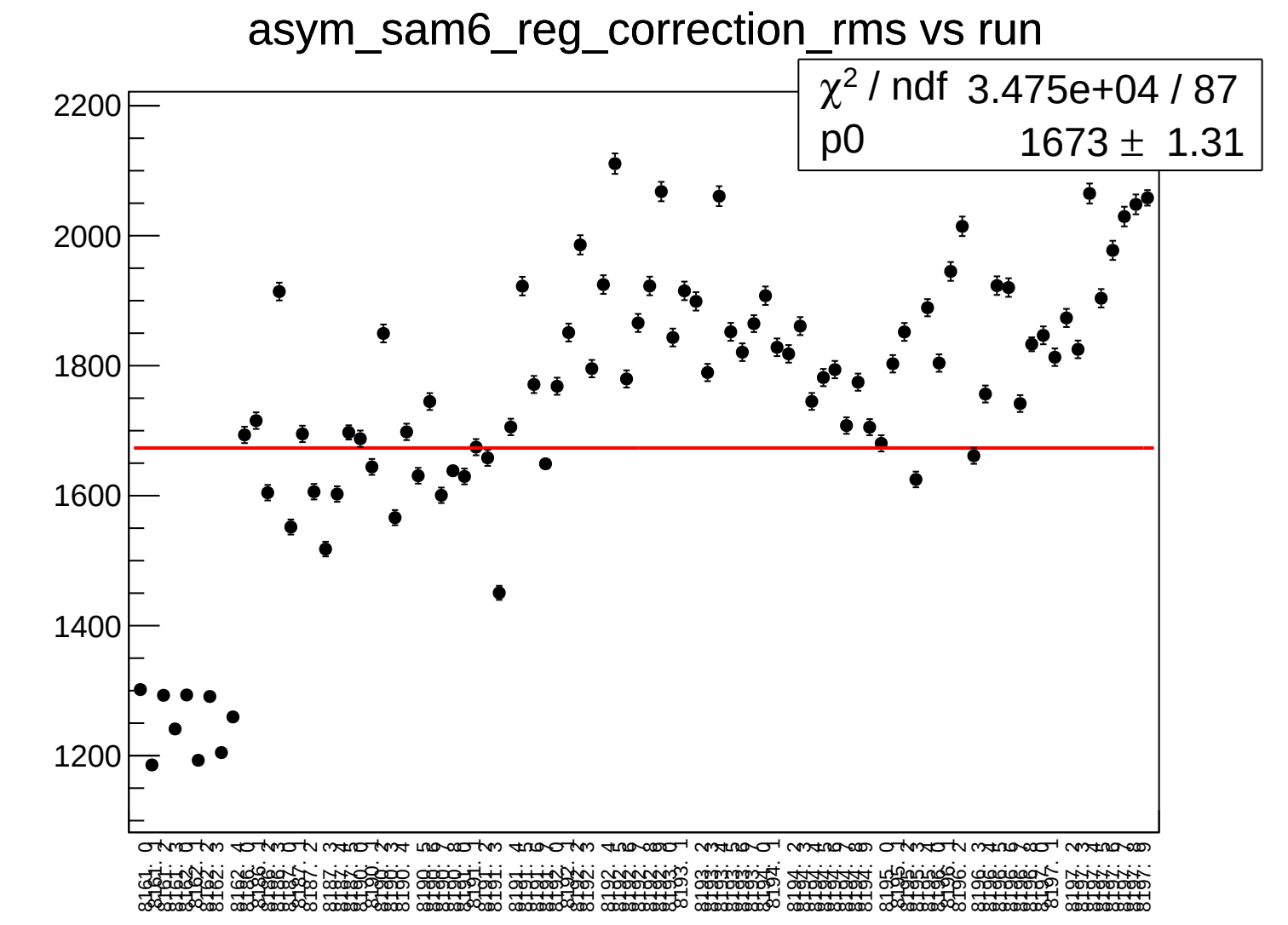

reg_asym_sam6_mean vs run
χ² / ndf 99.72 / 87
p0 389.2 ± 164.9
pull
Entries 88
Mean 399.4
Std Dev 0

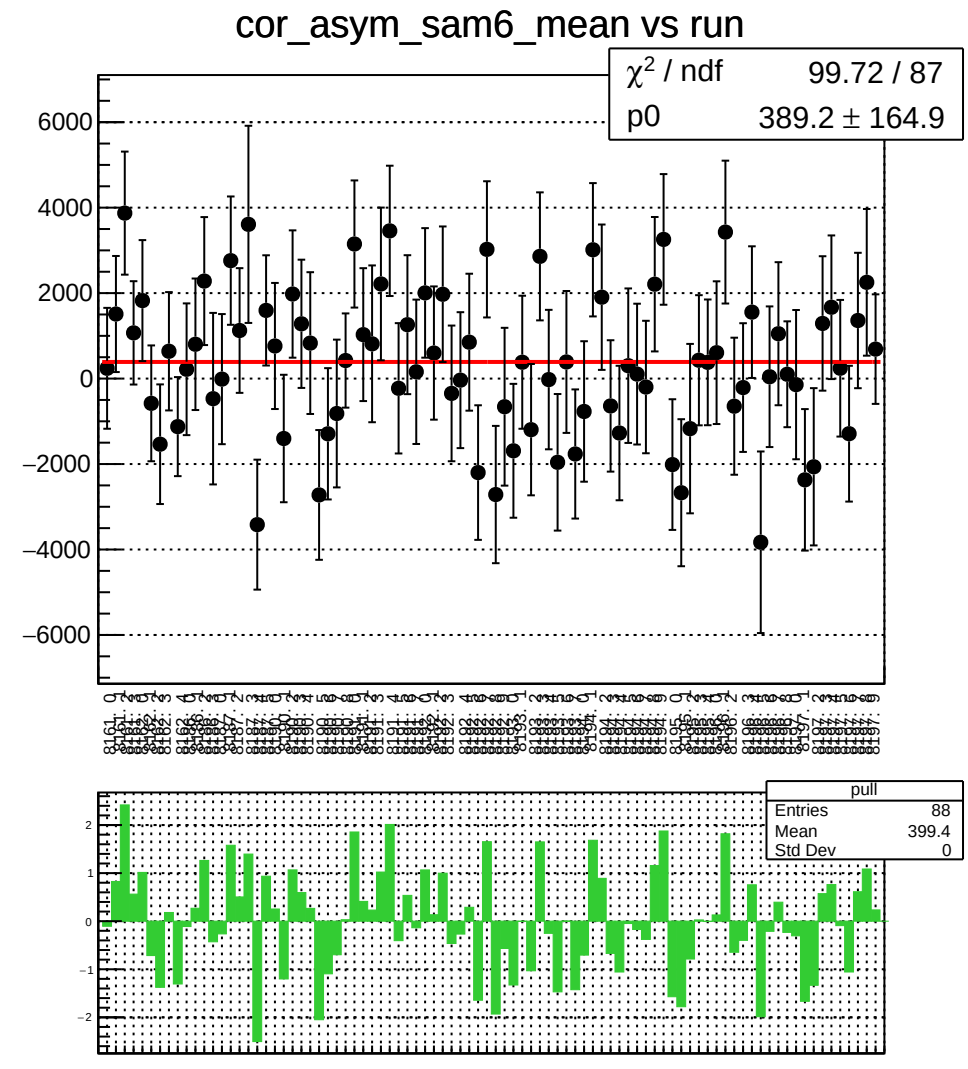

pull1D
Entries 88
Mean −0.009796
Std Dev 1.064

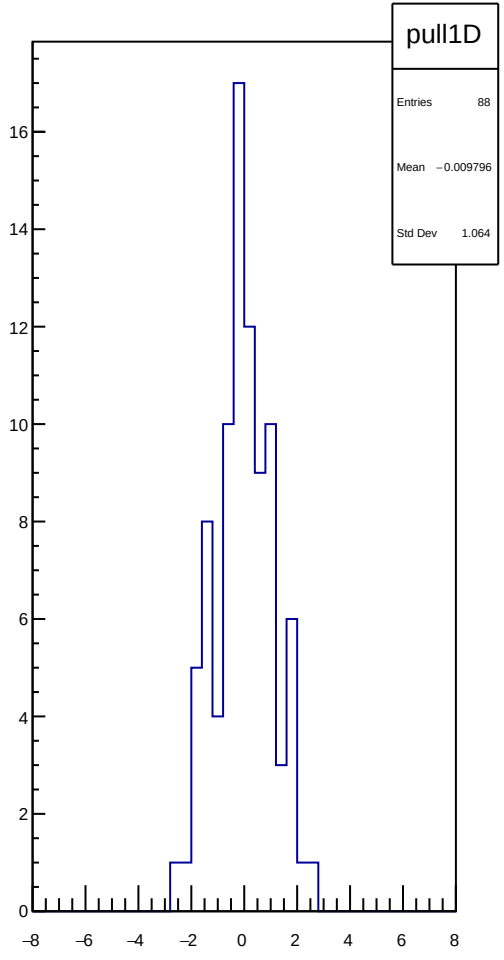

reg_asym_sam6_rms vs run
χ² / ndf 1.568e+04 / 87
p0 149.8 ± 0.1166
220
200
180
160
140
120

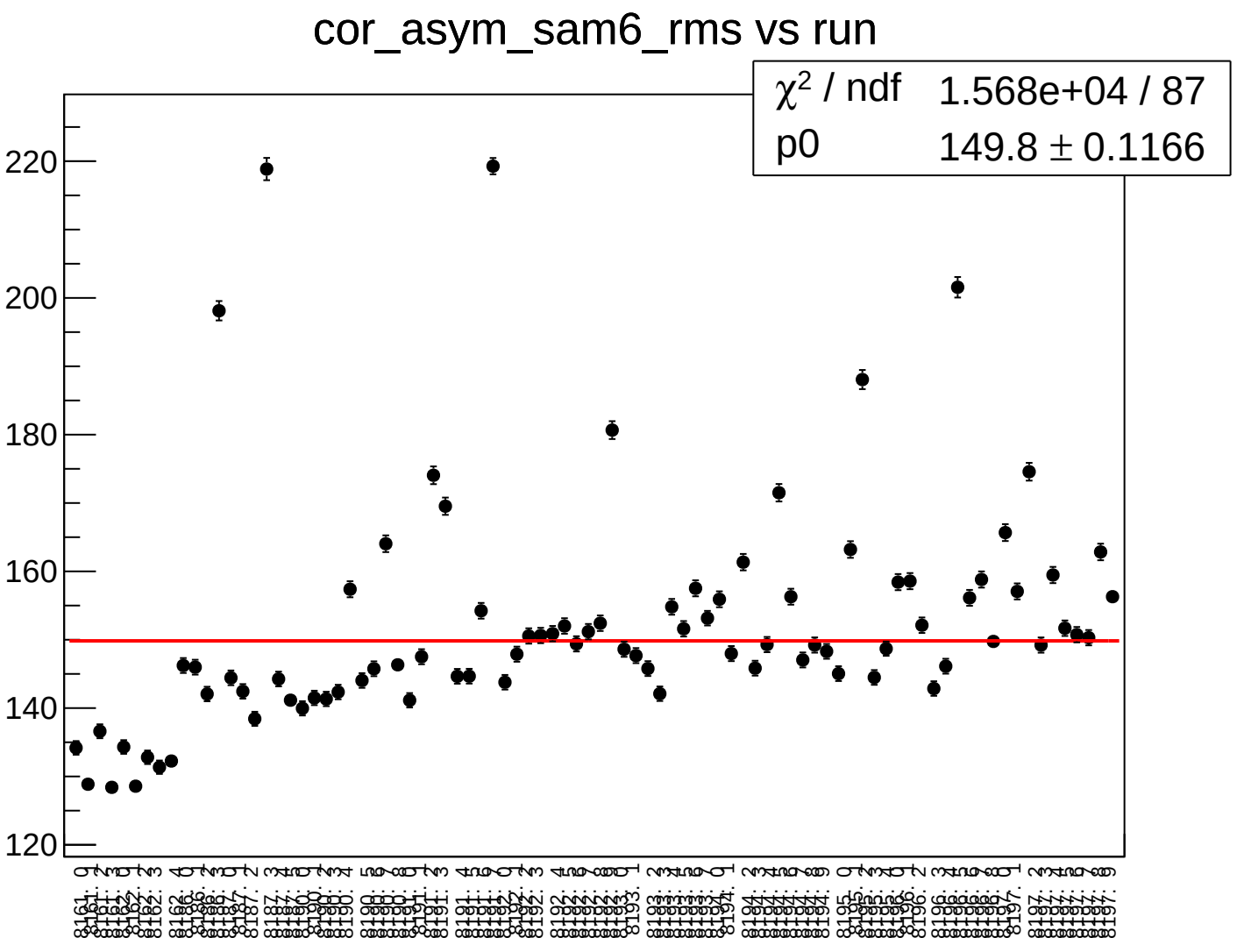

asym_sam6_reg_correction_mean vs run
χ² / ndf 79.2 / 87
p0 1238 ± 1852
pull
Entries 88
Mean 254.4
Std Dev 0

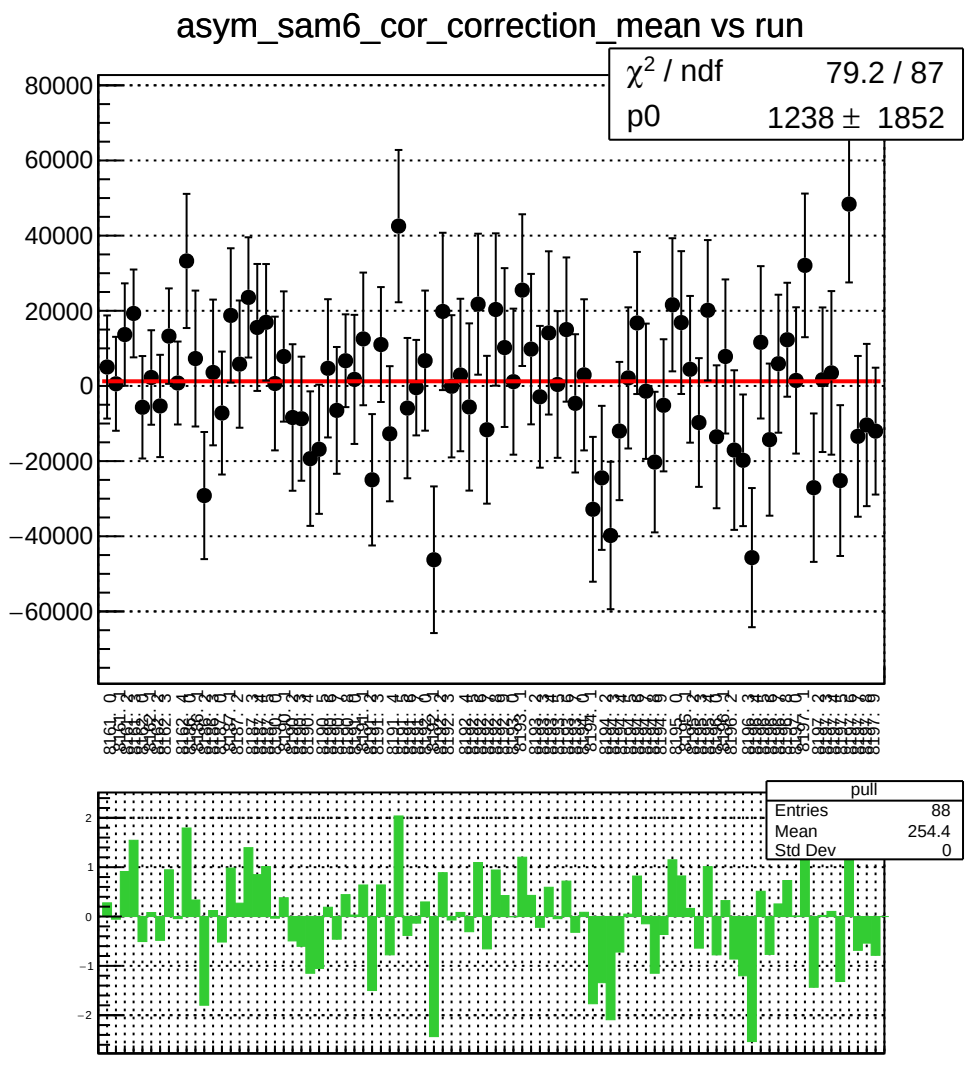

pull1D
Entries 88
Mean −0.01911
Std Dev 0.9485

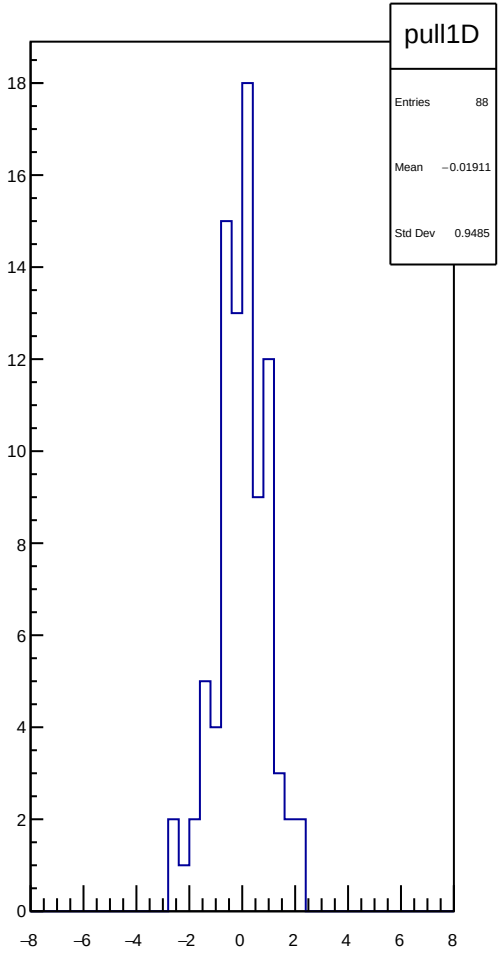

asym_sam6_reg_correction_rms vs run
χ² / ndf 3.475e+04 / 87
p0 1673 ± 1.31
2200
2000
1800
1600
1400
1200

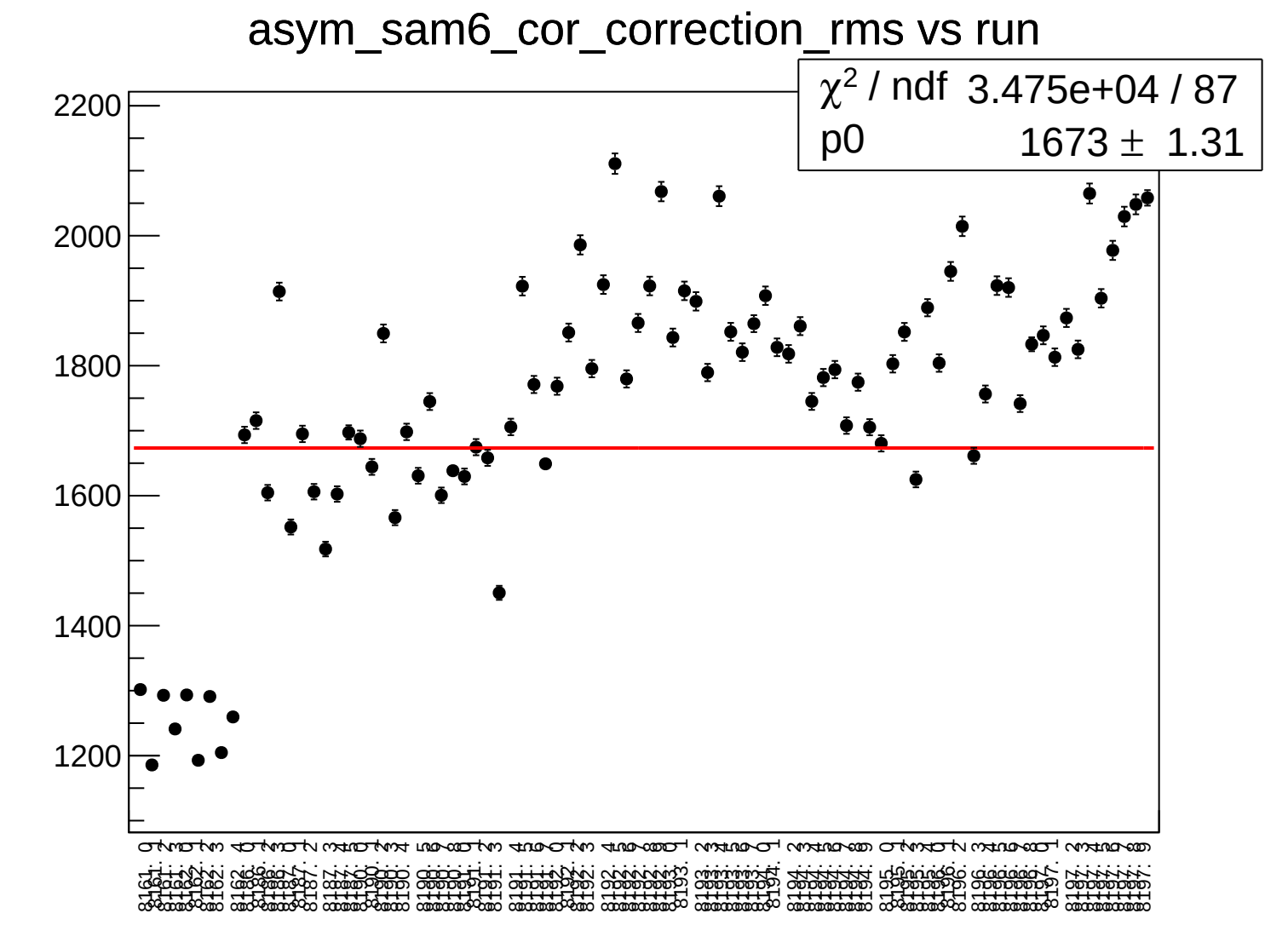

cor_asym_sam6_mean vs run
χ² / ndf 99.72 / 87
p0 389.2 ± 164.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 399.4
Std Dev 0
2
1
0
−1
−2

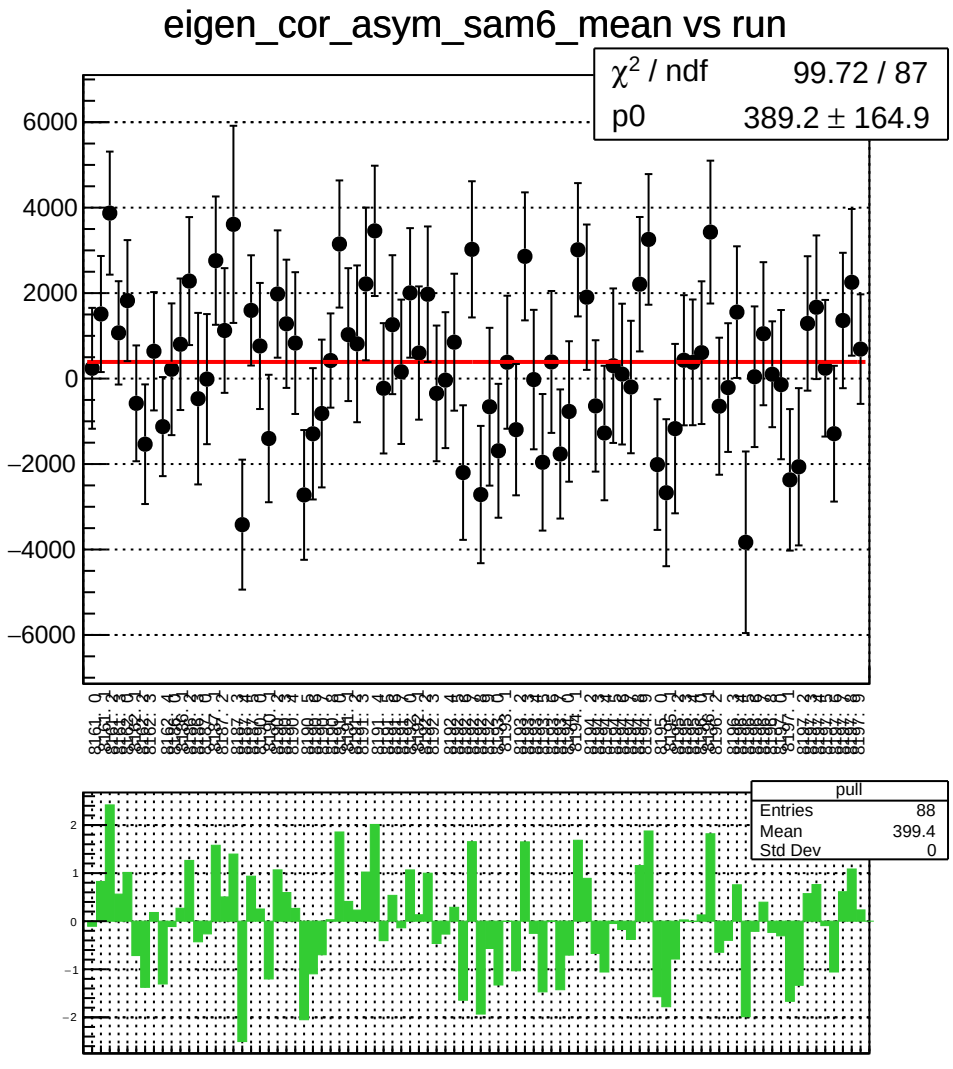

pull1D
Entries 88
Mean −0.009796
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

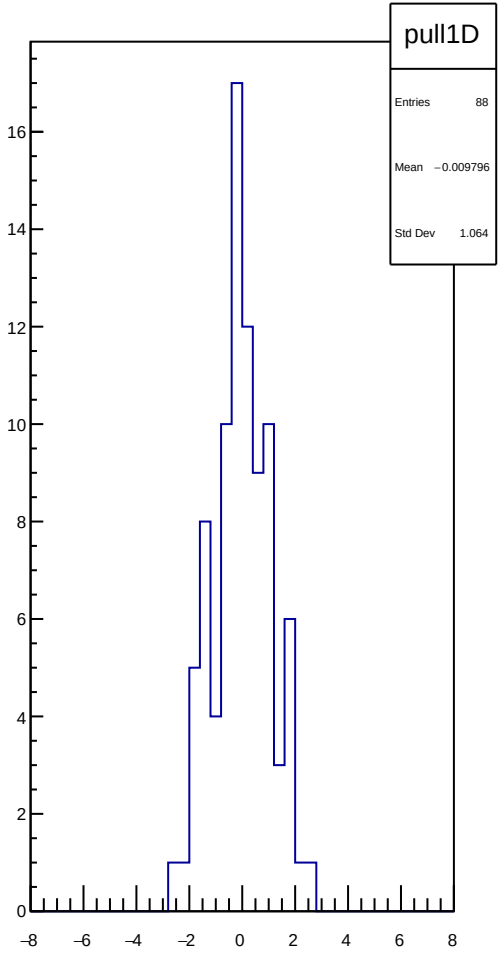

cor_asym_sam6_rms vs run
χ² / ndf 1.568e+04 / 87
p0 149.8 ± 0.1166
220
200
180
160
140
120

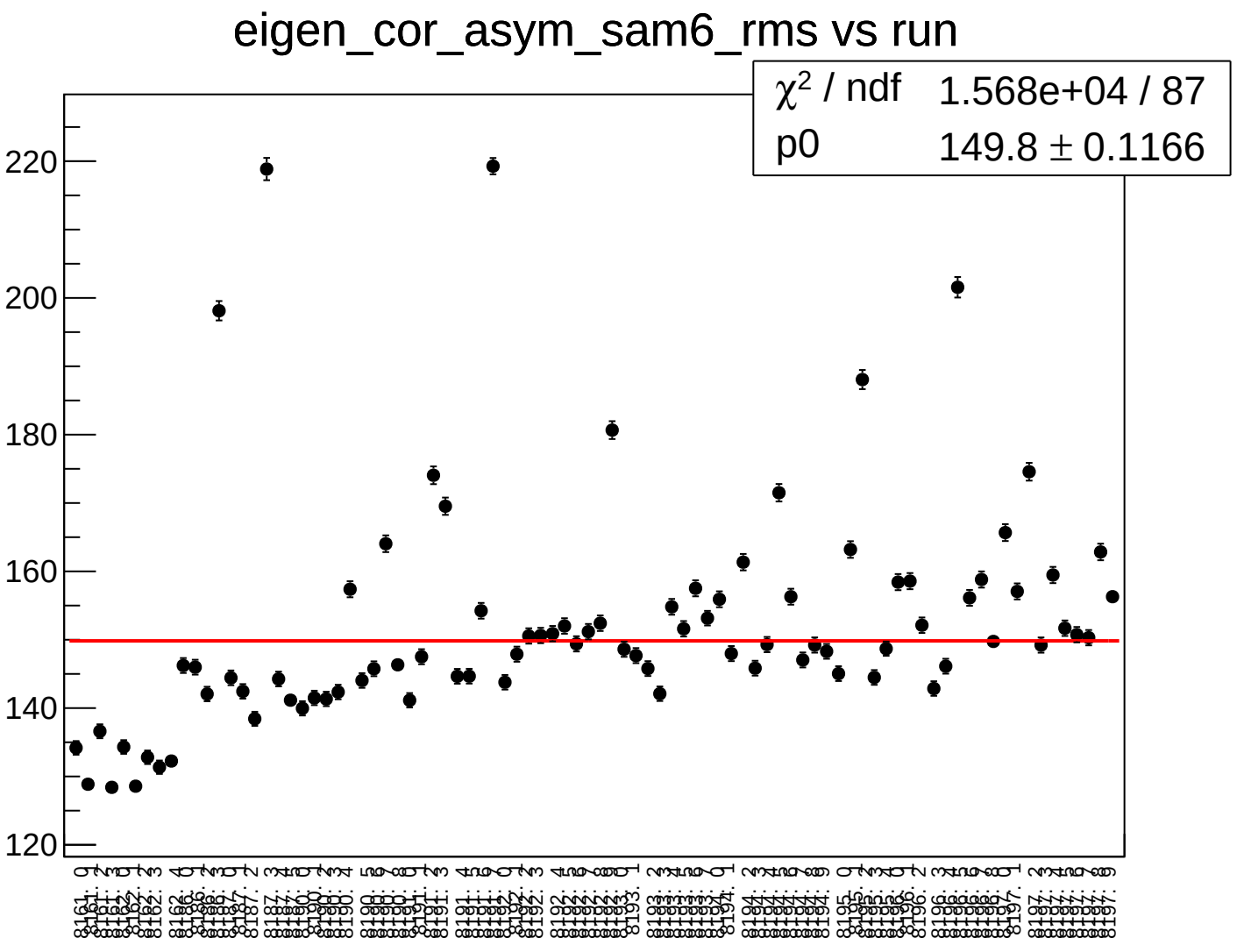

asym_sam6_cor_correction_mean vs run
χ² / ndf 79.2 / 87
p0 1238 ± 1852
pull
Entries 88
Mean 254.4
Std Dev 0

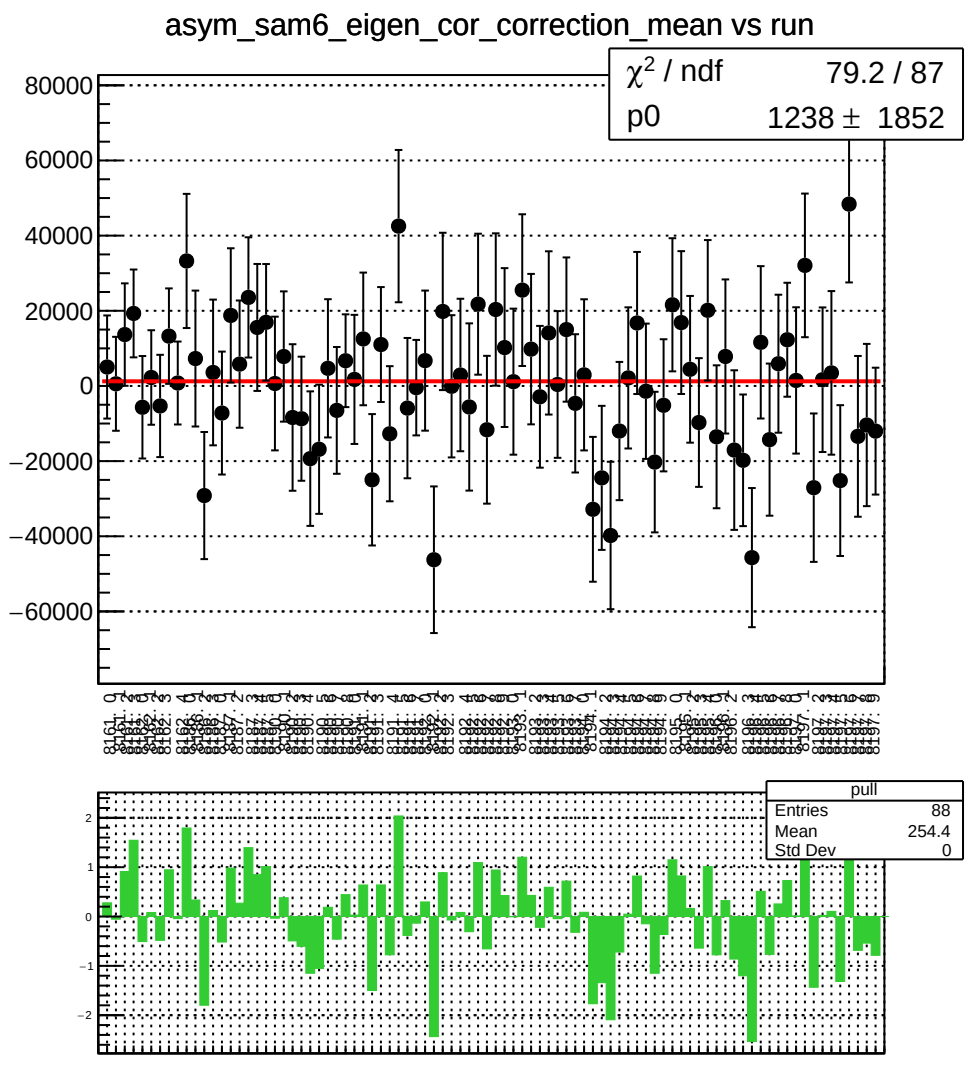

pull1D
Entries 88
Mean −0.01911
Std Dev 0.9485

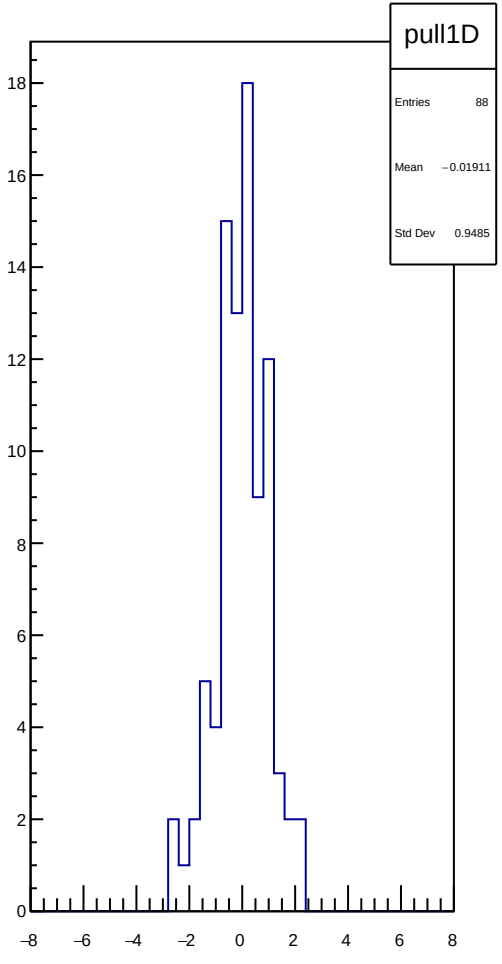

asym_sam6_cor_correction_rms vs run
χ² / ndf 3.475e+04 / 87
p0 1673 ± 1.31
2200
2000
1800
1600
1400
1200

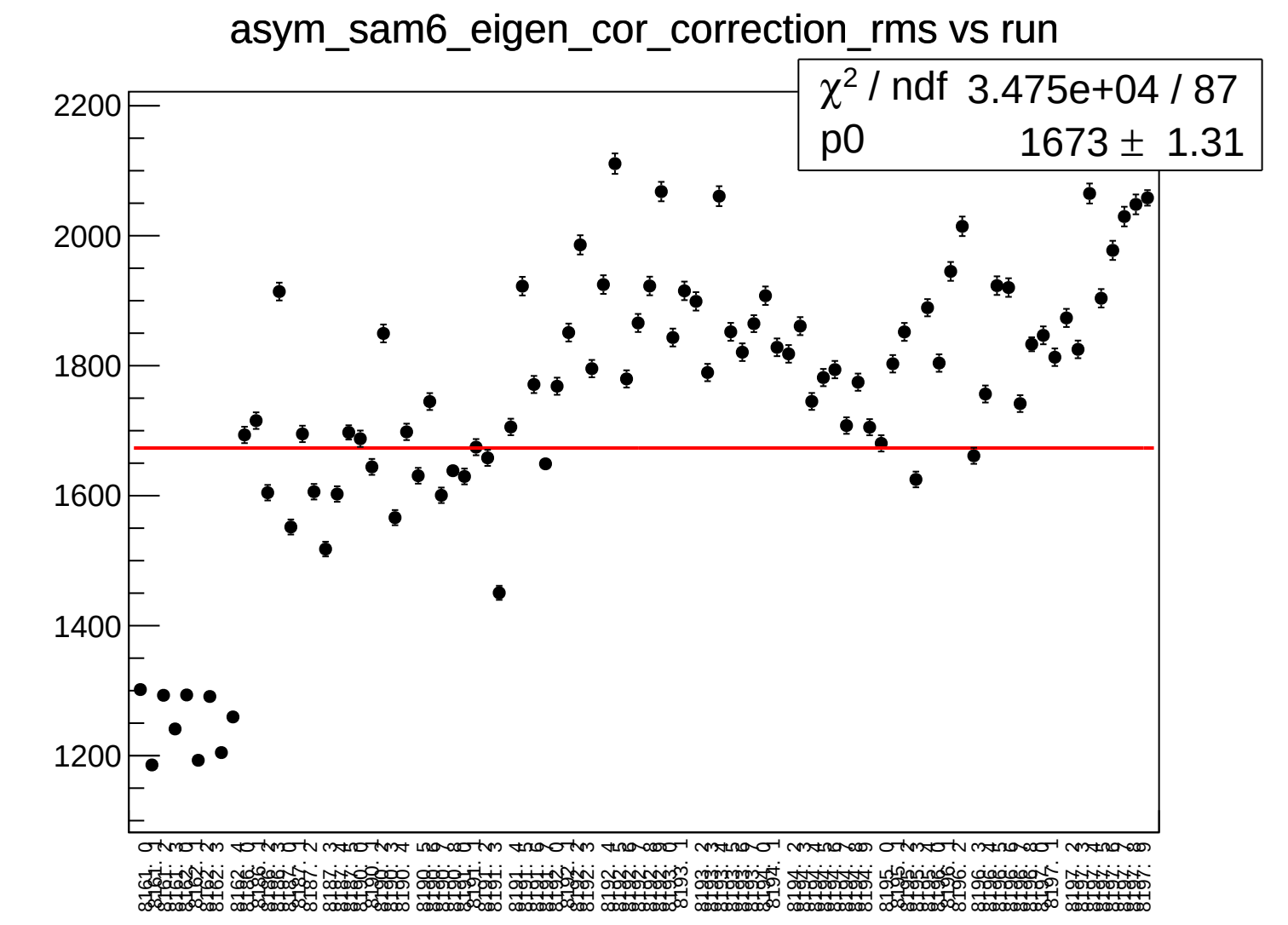

eigen_cor_asym_sam6_mean vs run
χ² / ndf 99.72 / 87
p0 389.2 ± 164.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 399.4
Std Dev 0
2
1
0
−1
−2

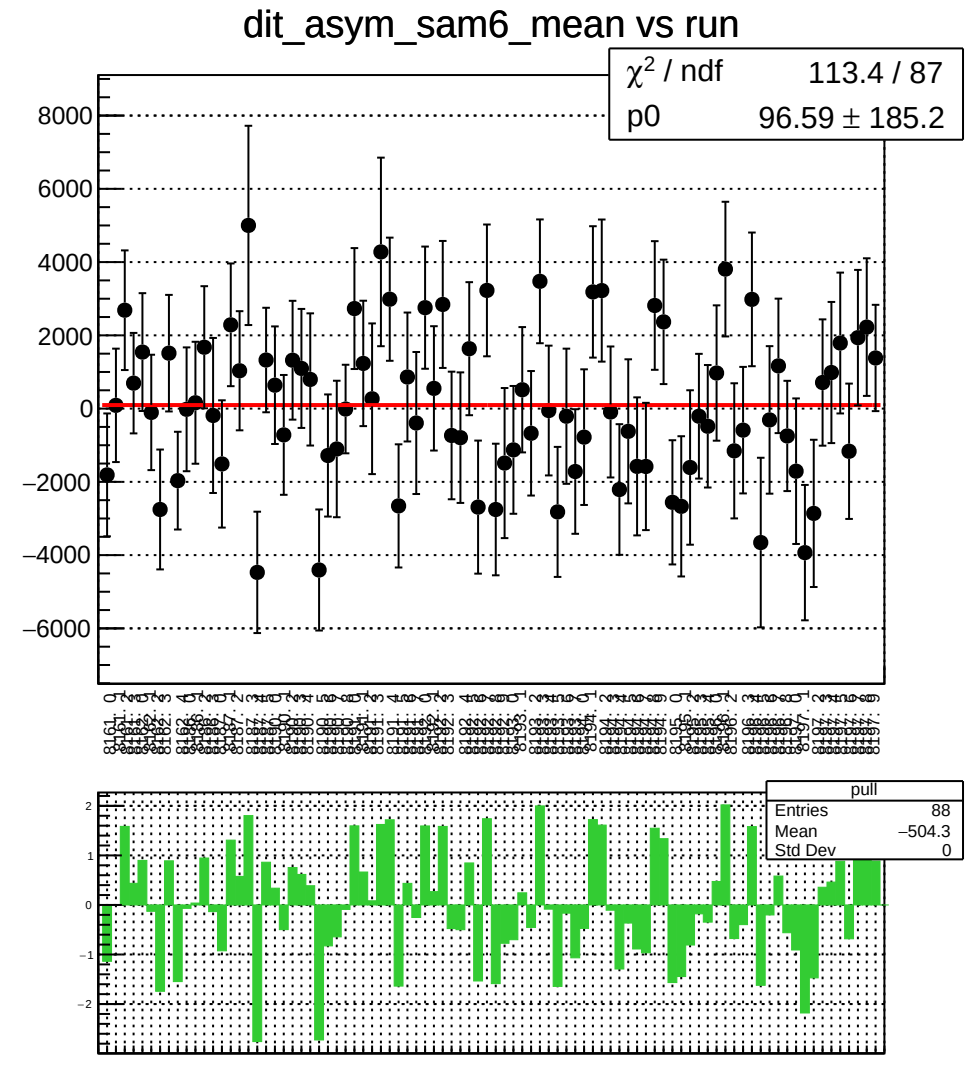

pull1D
Entries 88
Mean −0.009796
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

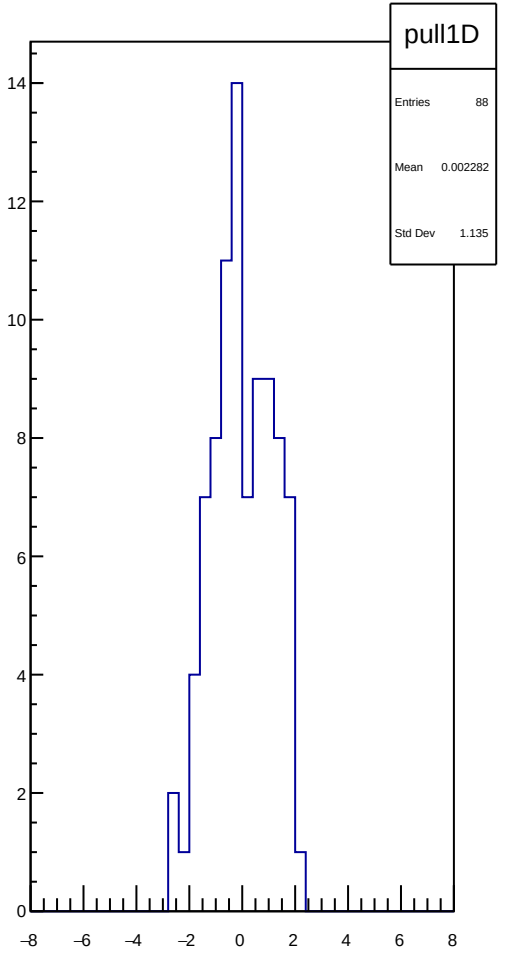

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.568e+04 / 87
p0 149.8 ± 0.1166
220
200
180
160
140
120

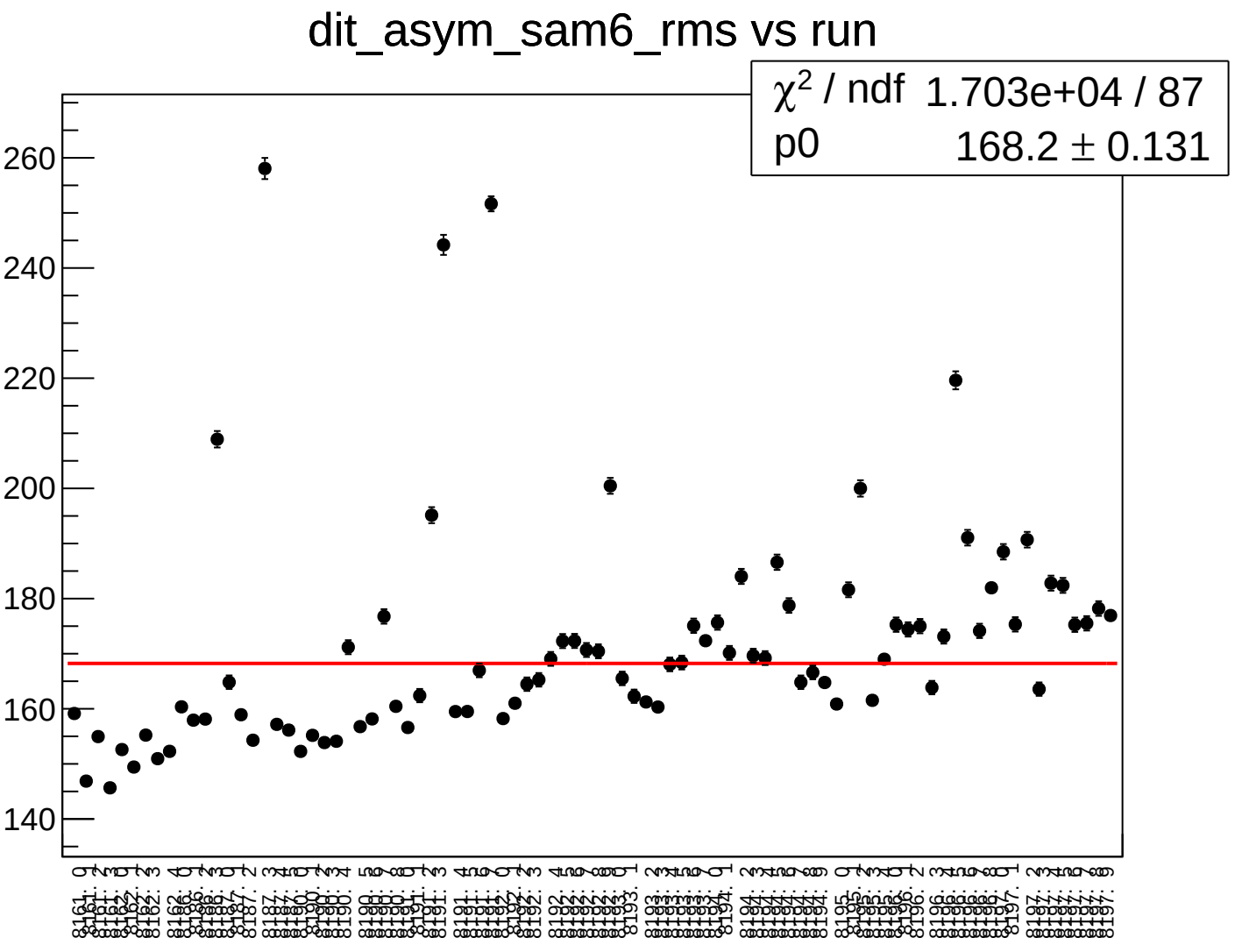

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 79.2 / 87
p0 1238 ± 1852
pull
Entries 88
Mean 254.4
Std Dev 0

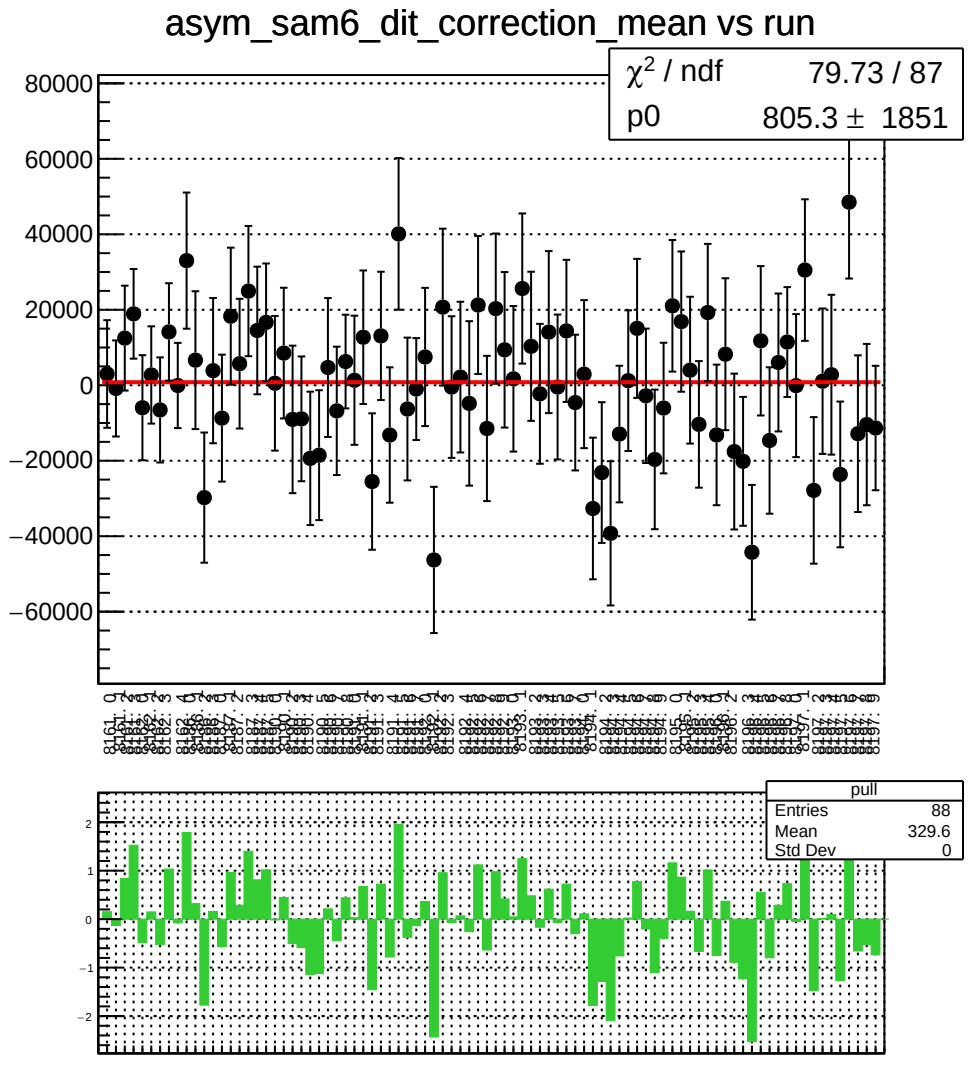

pull1D
Entries 88
Mean −0.01911
Std Dev 0.9485

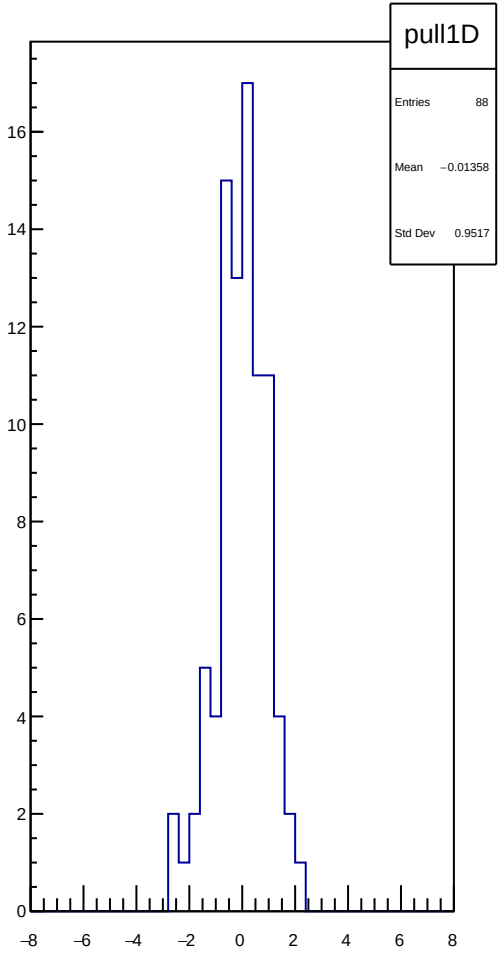

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 3.475e+04 / 87
p0 1673 ± 1.31
2200
2000
1800
1600
1400
1200

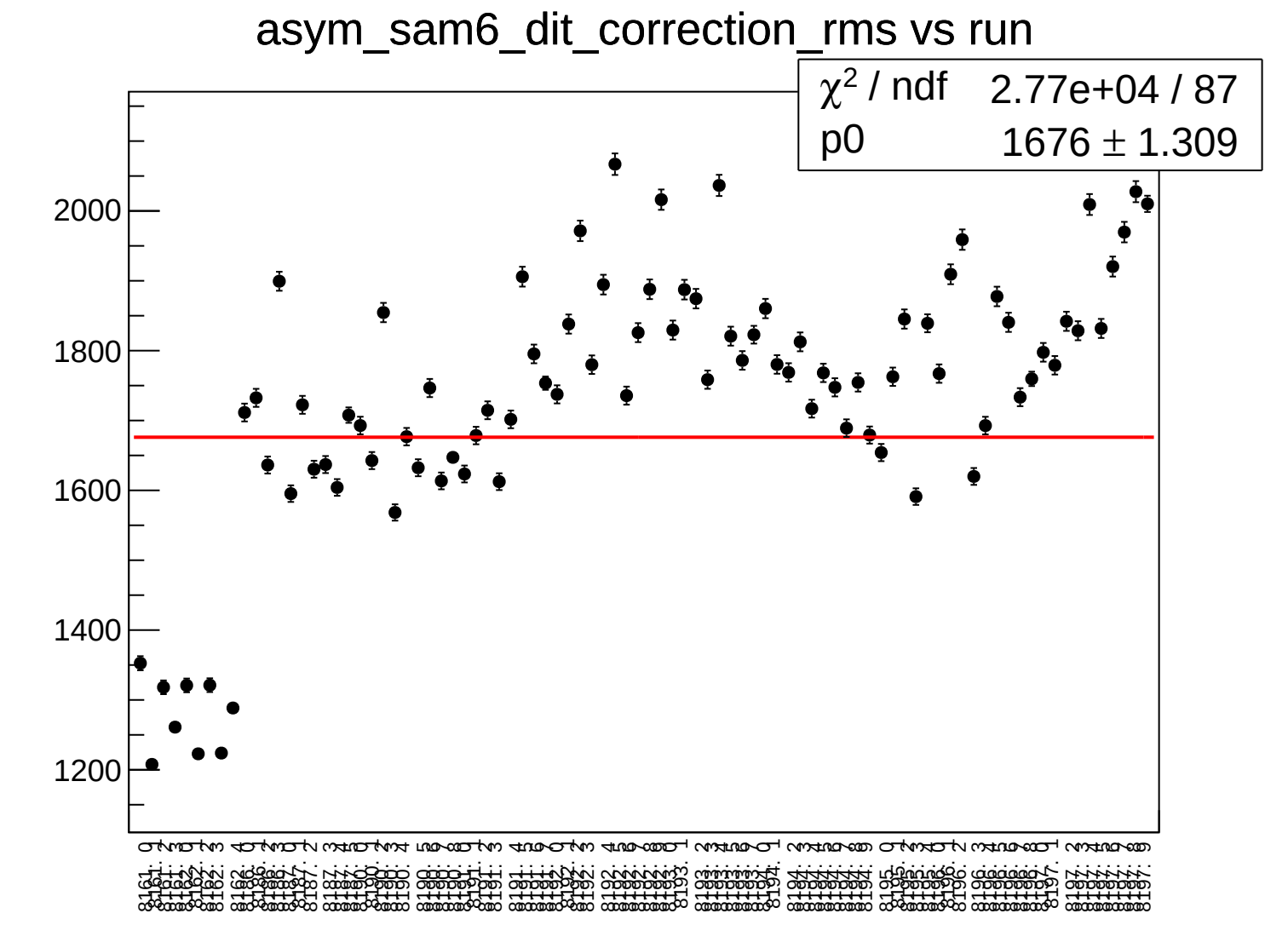

dit_asym_sam6_mean vs run
χ² / ndf 113.4 / 87
p0 96.59 ± 185.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −504.3
Std Dev 0
2
1
0
−1
−2

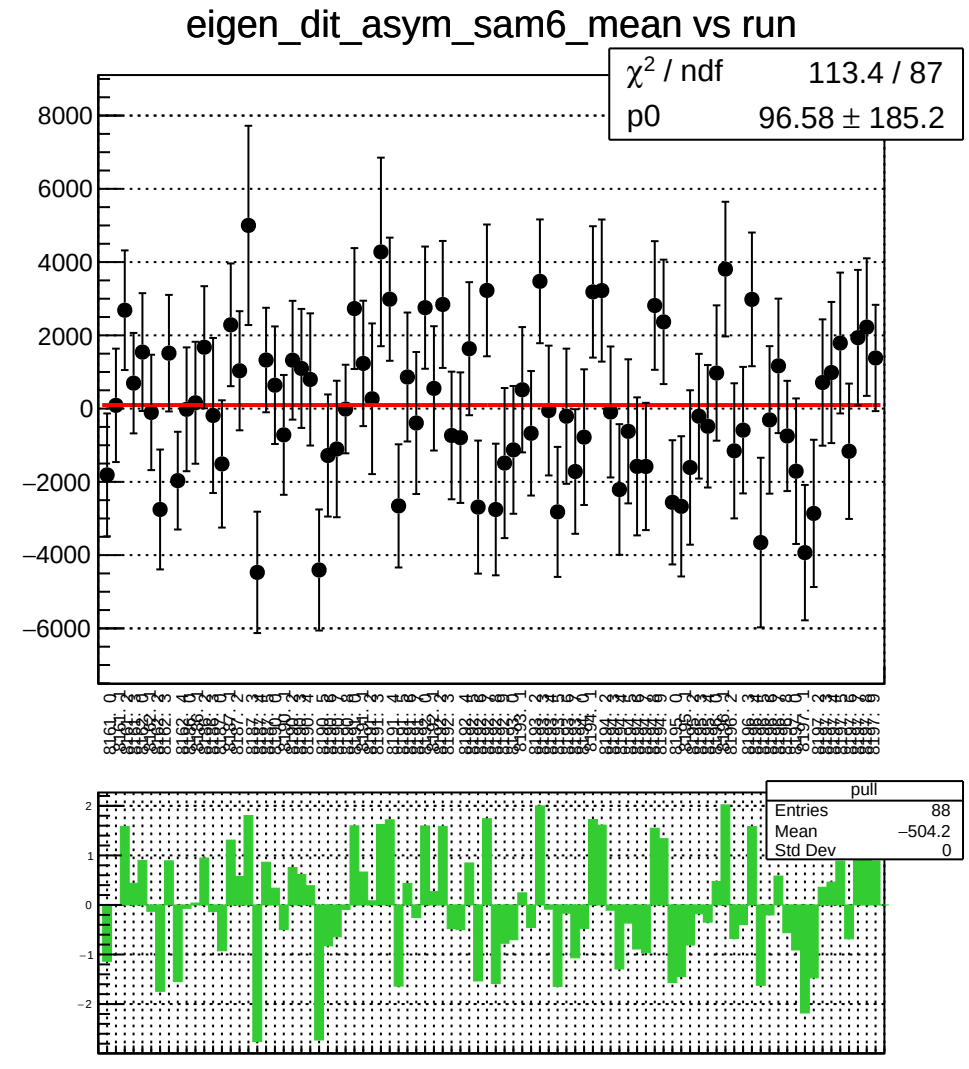

pull1D
Entries 88
Mean 0.002282
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

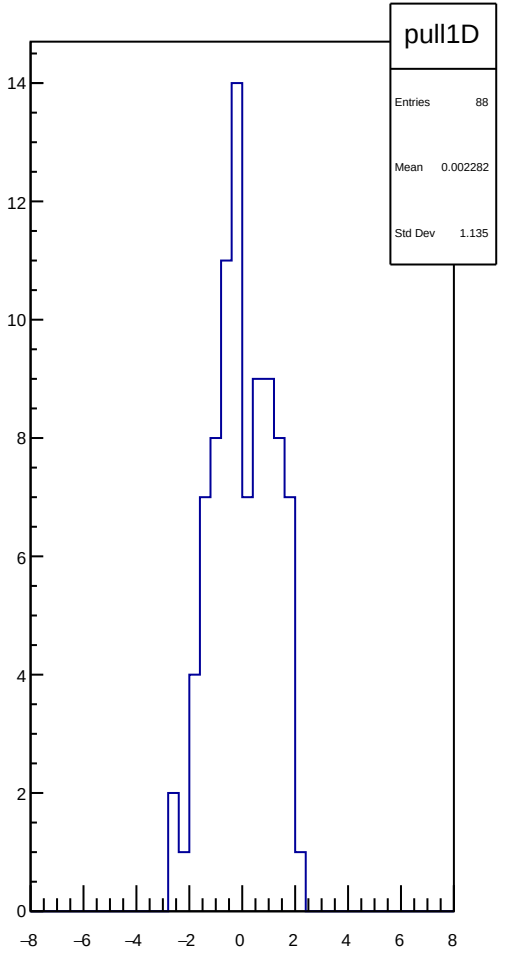

dit_asym_sam6_rms vs run
χ² / ndf 1.703e+04 / 87
p0 168.2 ± 0.131
260
240
220
200
180
160
140

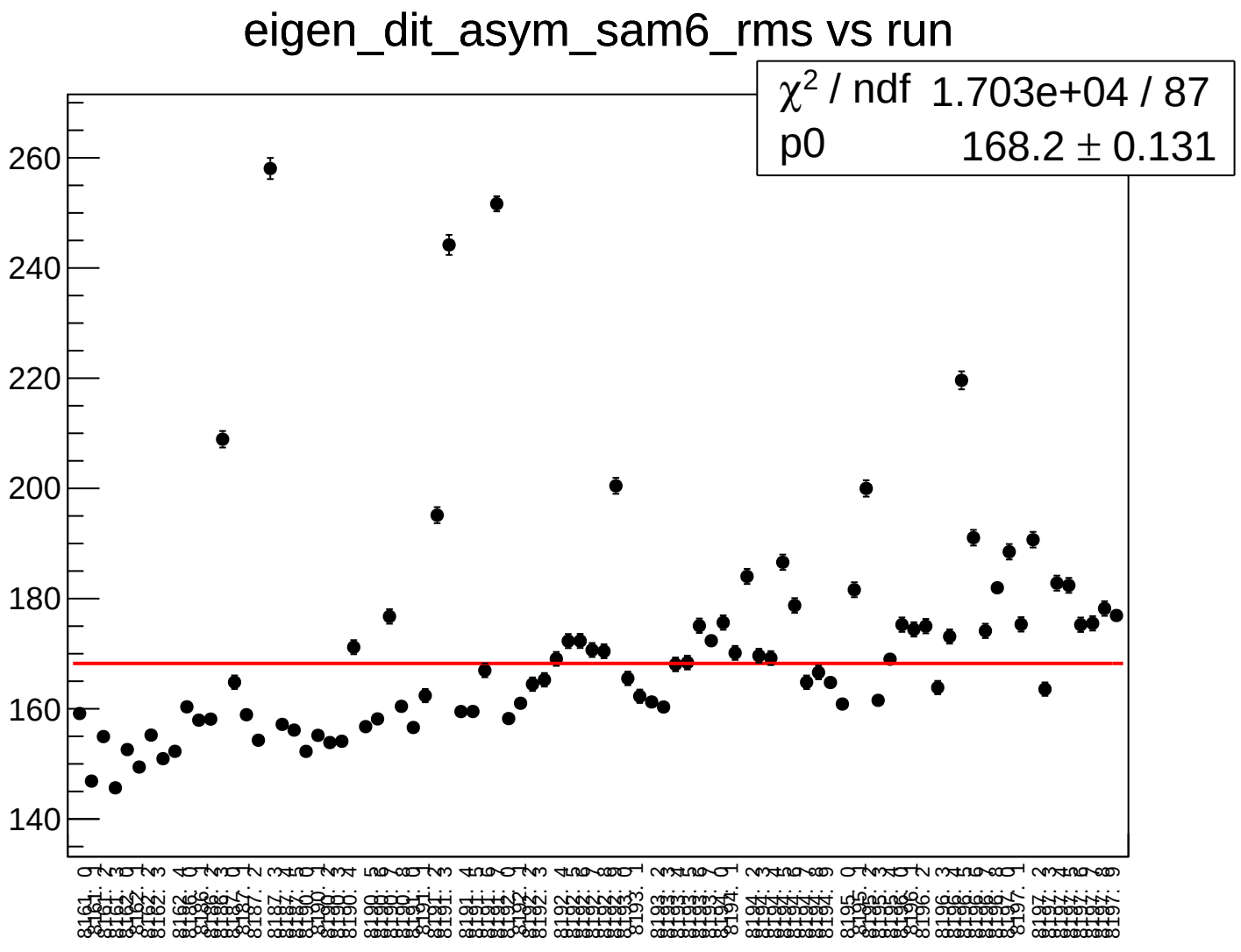

asym_sam6_dit_correction_mean vs run
χ² / ndf 79.73 / 87
p0 805.3 ± 1851
pull
Entries 88
Mean 329.6
Std Dev 0

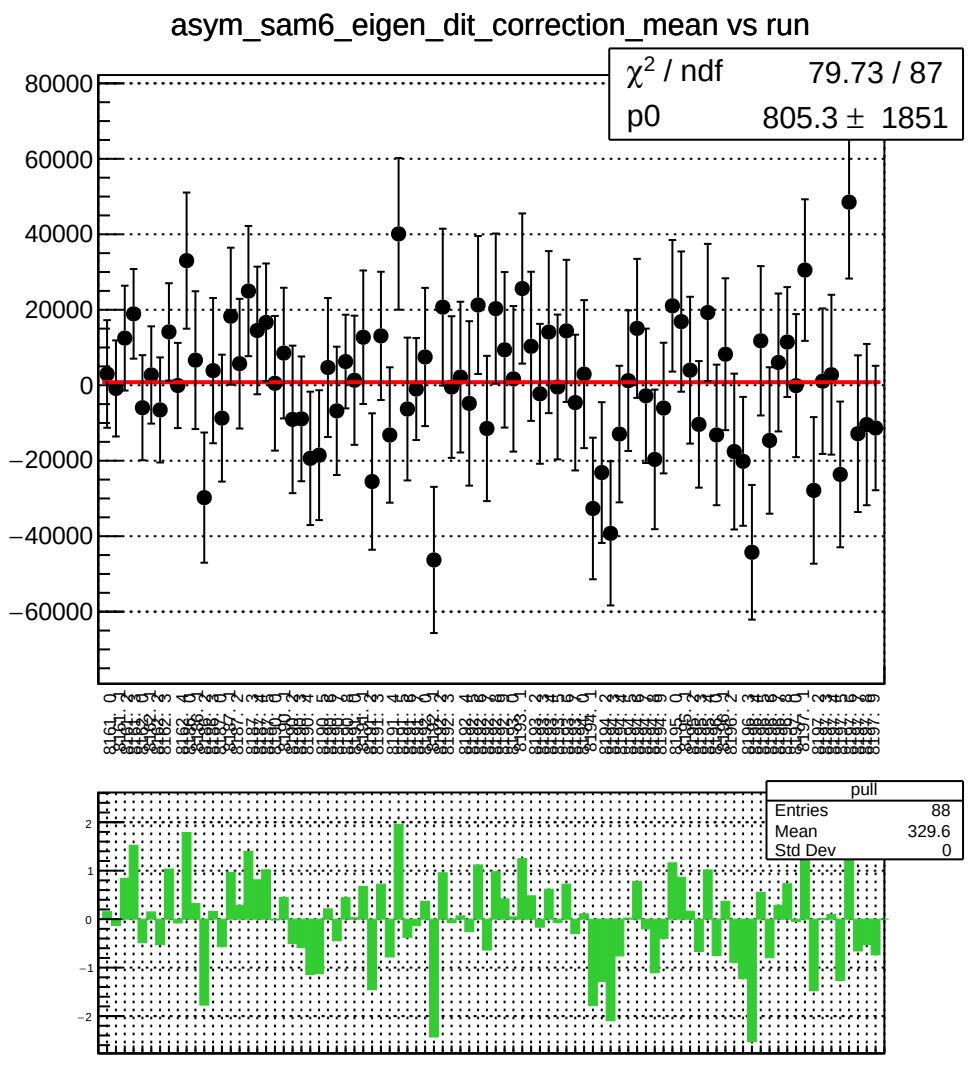

pull1D
Entries 88
Mean −0.01358
Std Dev 0.9517

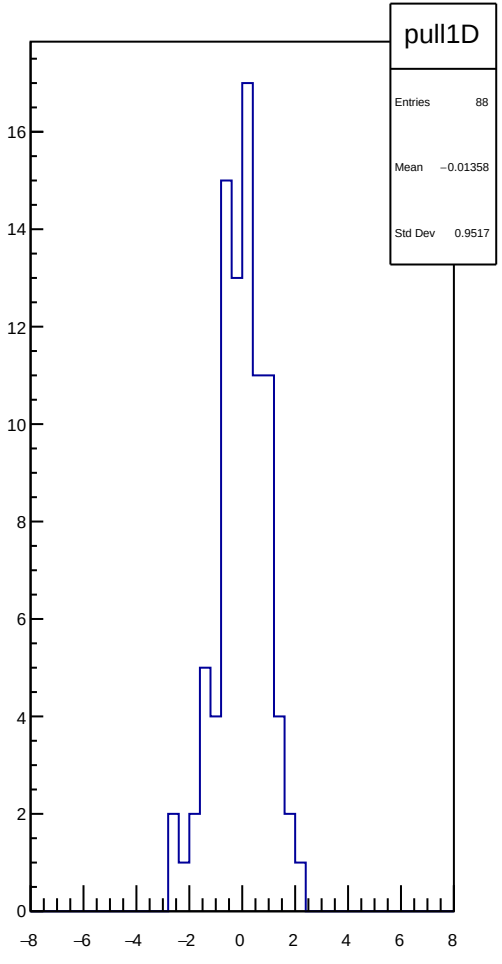

asym_sam6_dit_correction_rms vs run
χ² / ndf 2.77e+04 / 87
p0 1676 ± 1.309
2000
1800
1600
1400
1200

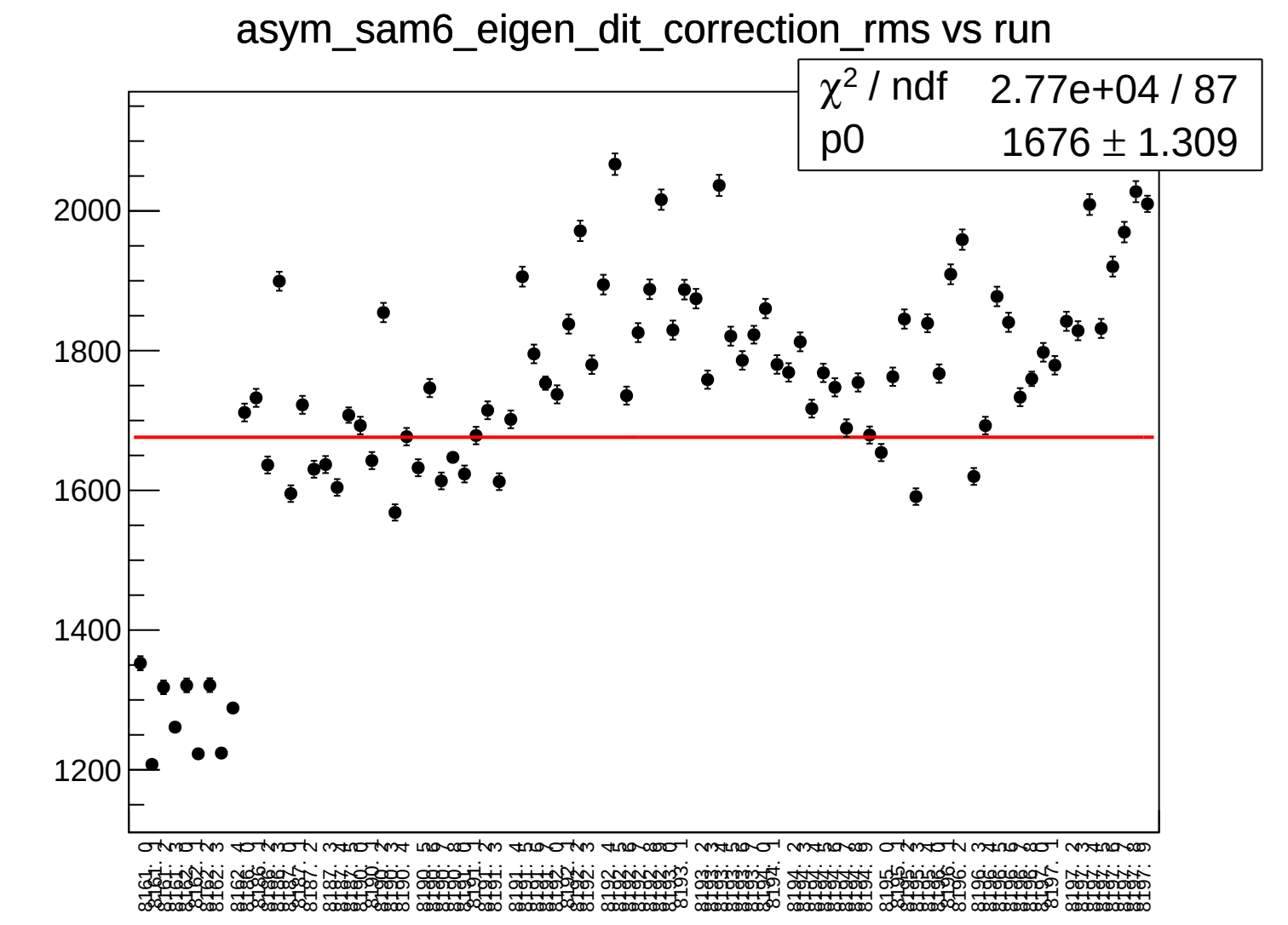

eigen_dit_asym_sam6_mean vs run
χ² / ndf 113.4 / 87
p0 96.58 ± 185.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −504.2
Std Dev 0
2
1
0
−1
−2

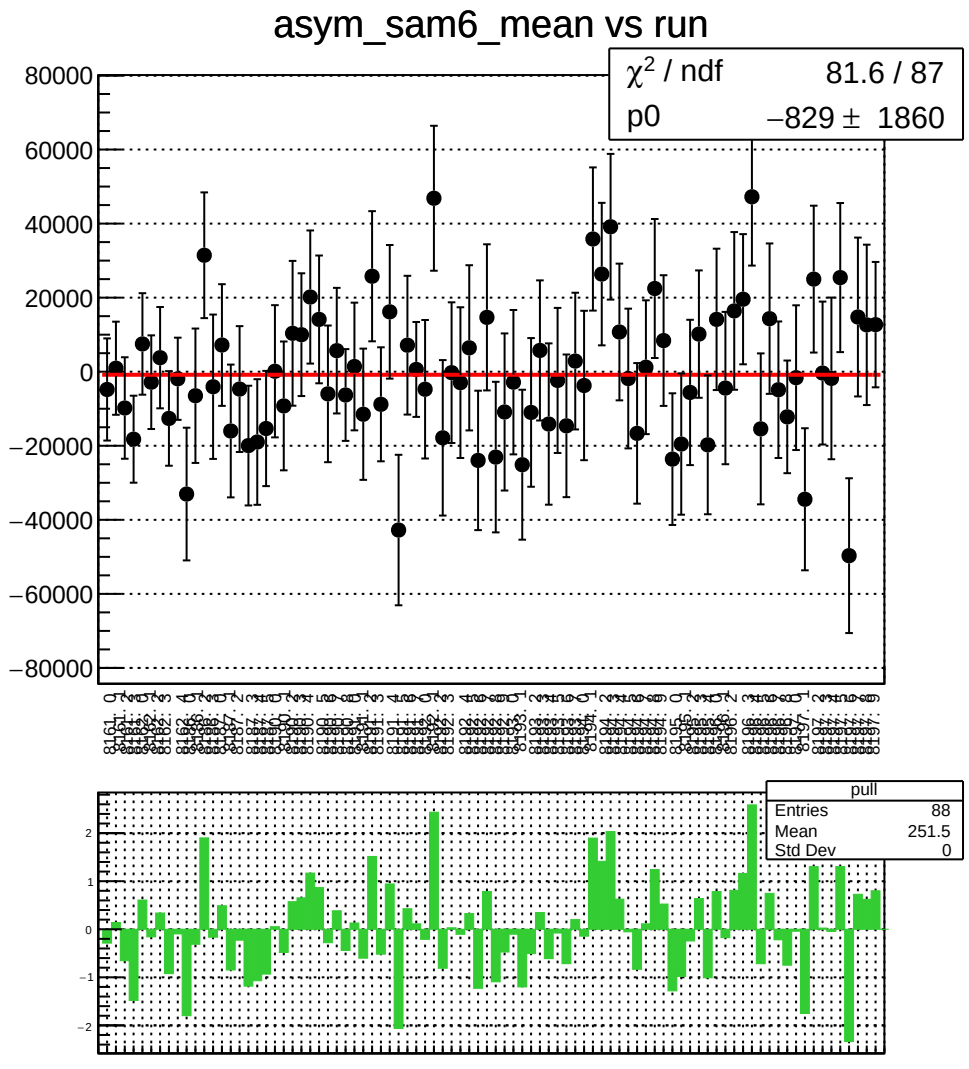

pull1D
Entries 88
Mean 0.002282
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

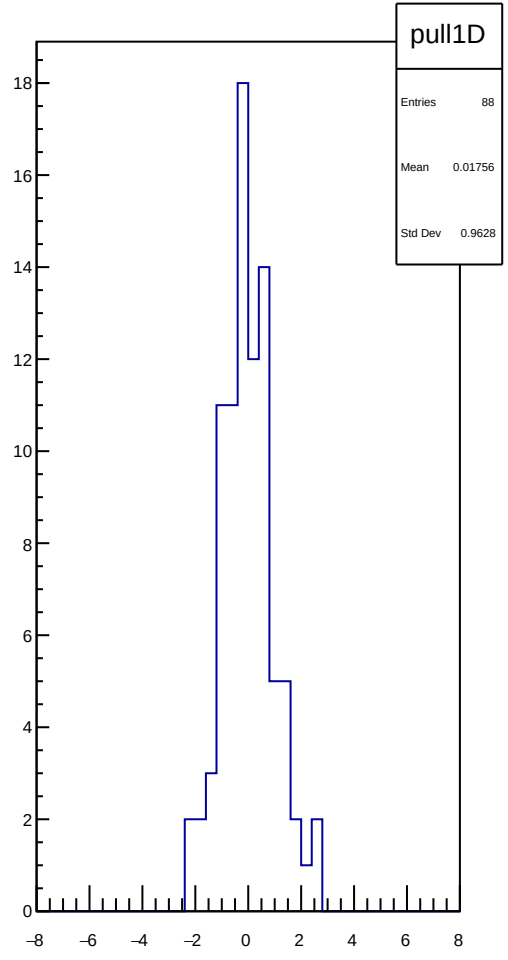

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1.703e+04 / 87
p0 168.2 ± 0.131
260
240
220
200
180
160
140

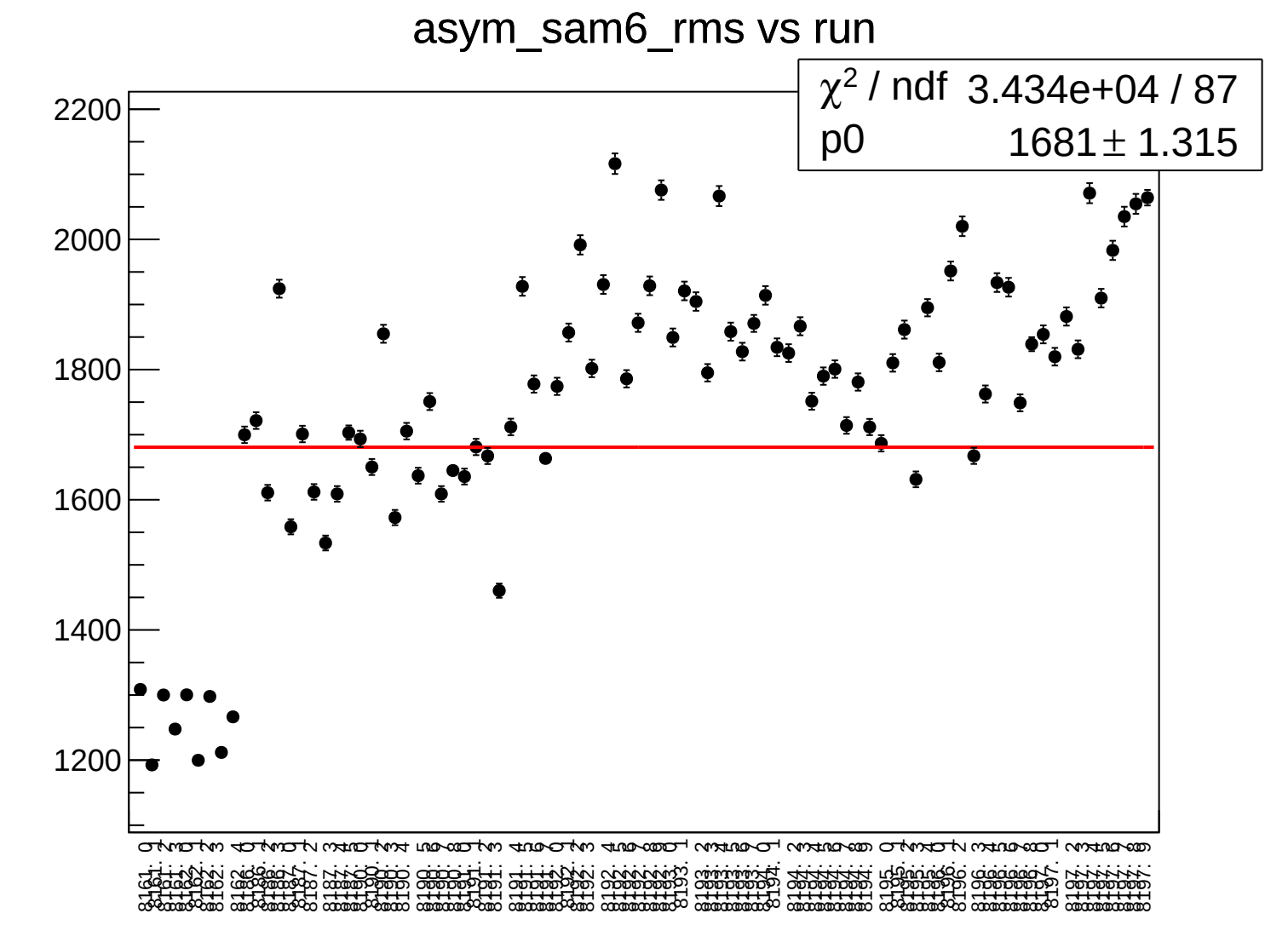

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 79.73 / 87
p0 805.3 ± 1851
pull
Entries 88
Mean 329.6
Std Dev 0

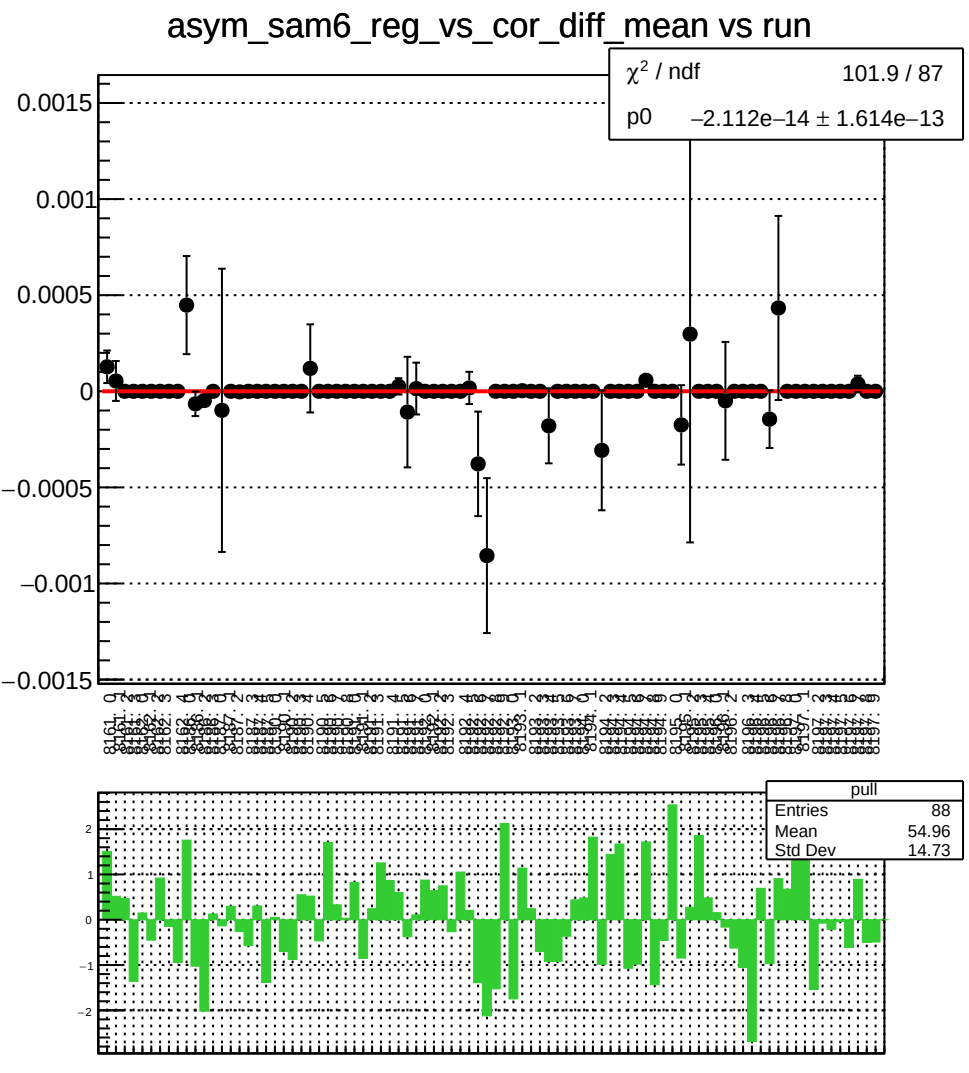

pull1D
Entries 88
Mean −0.01358
Std Dev 0.9517

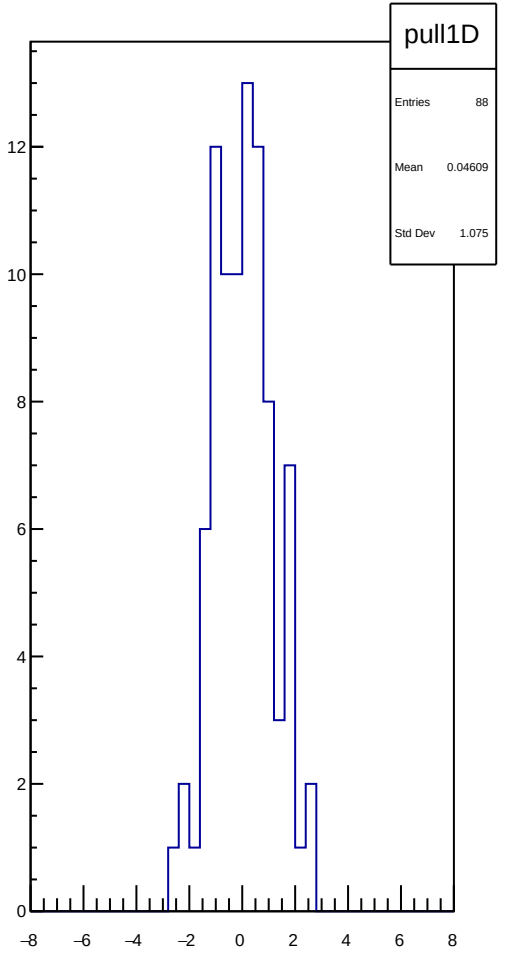

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2.77e+04 / 87
p0 1676 ± 1.309
2000
1800
1600
1400
1200

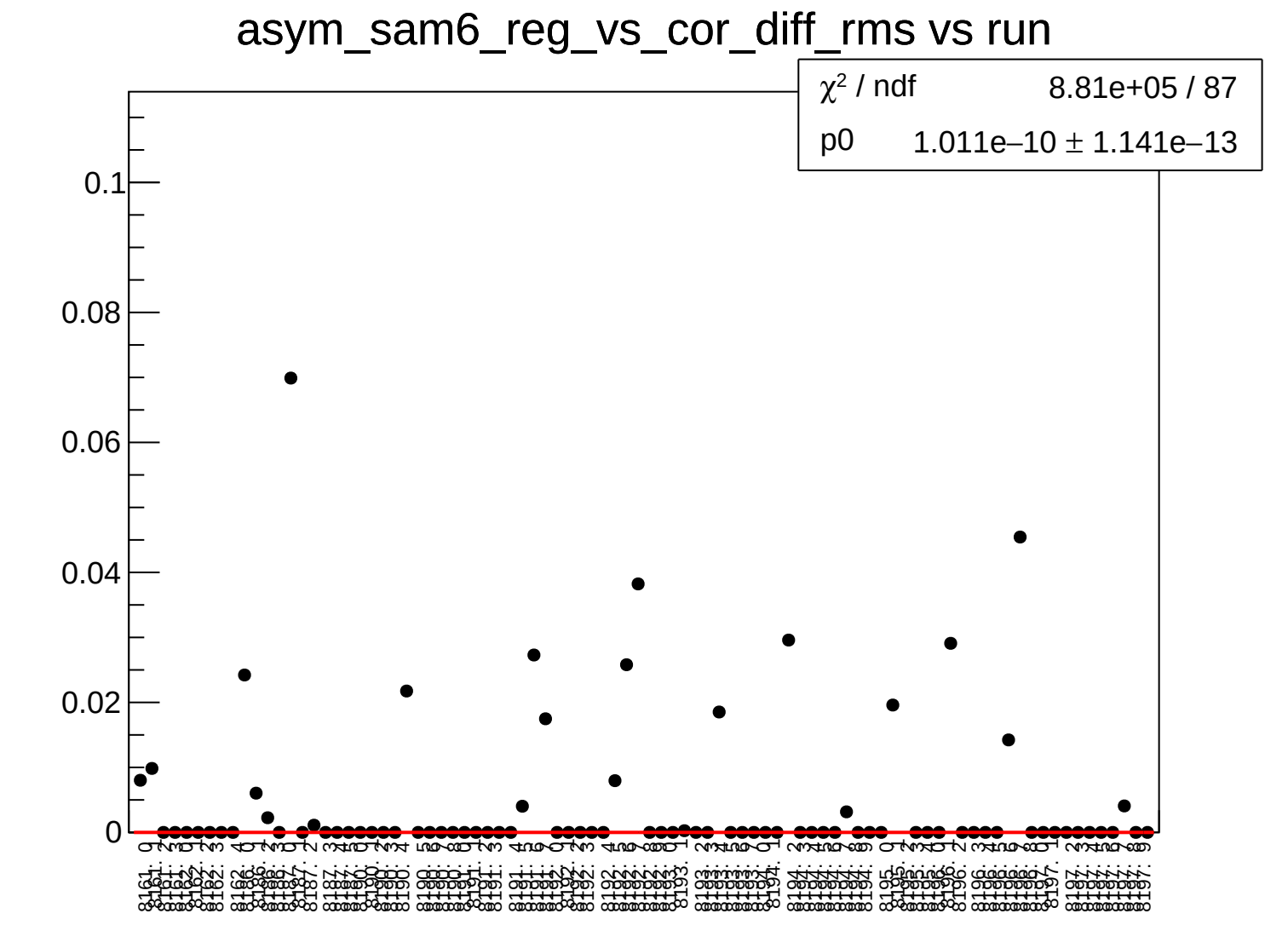

asym_sam6_mean vs run
χ² / ndf 81.6 / 87
p0 −829 ± 1860
pull
Entries 88
Mean 251.5
Std Dev 0

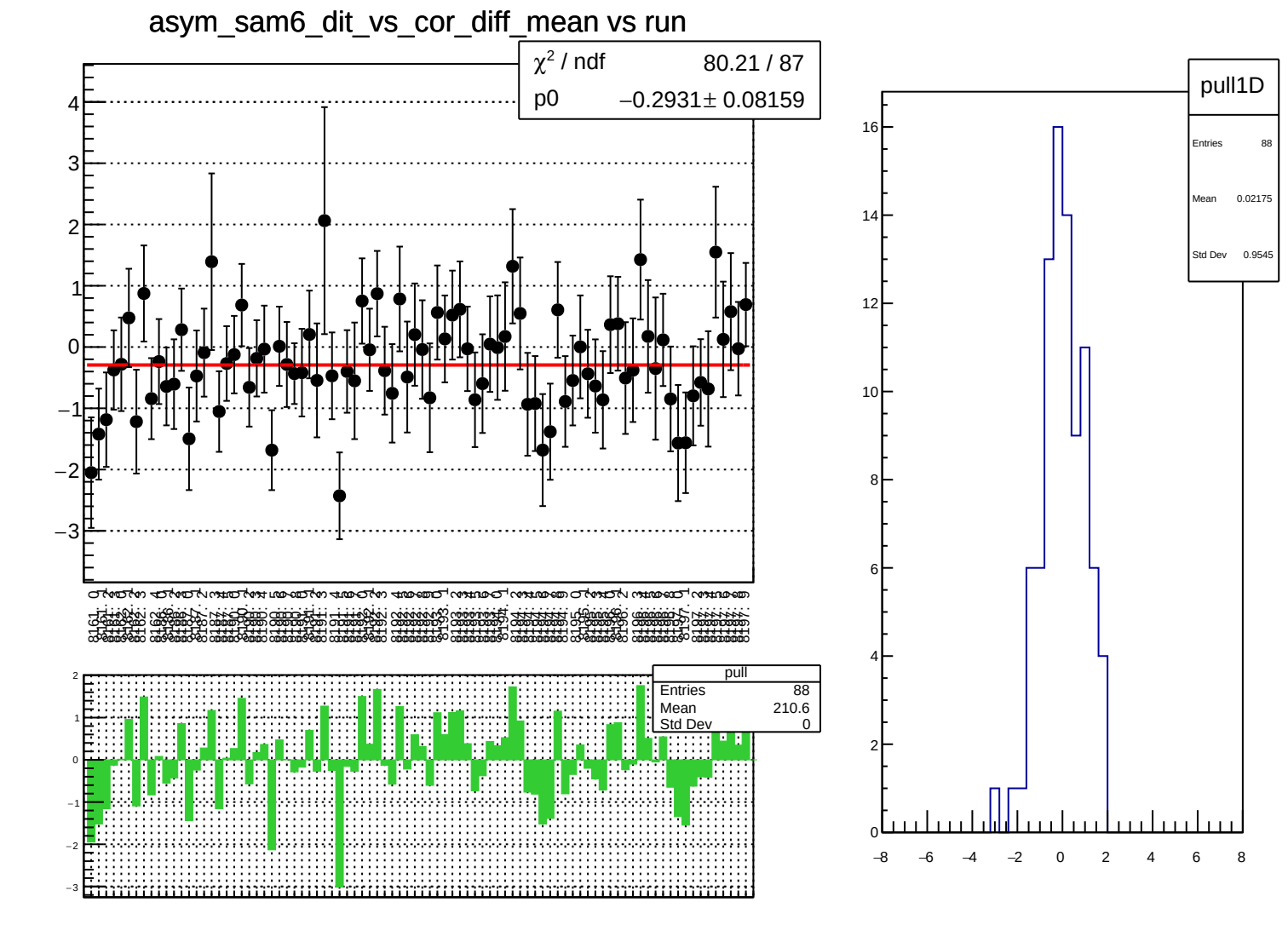

pull1D
Entries 88
Mean 0.01756
Std Dev 0.9628

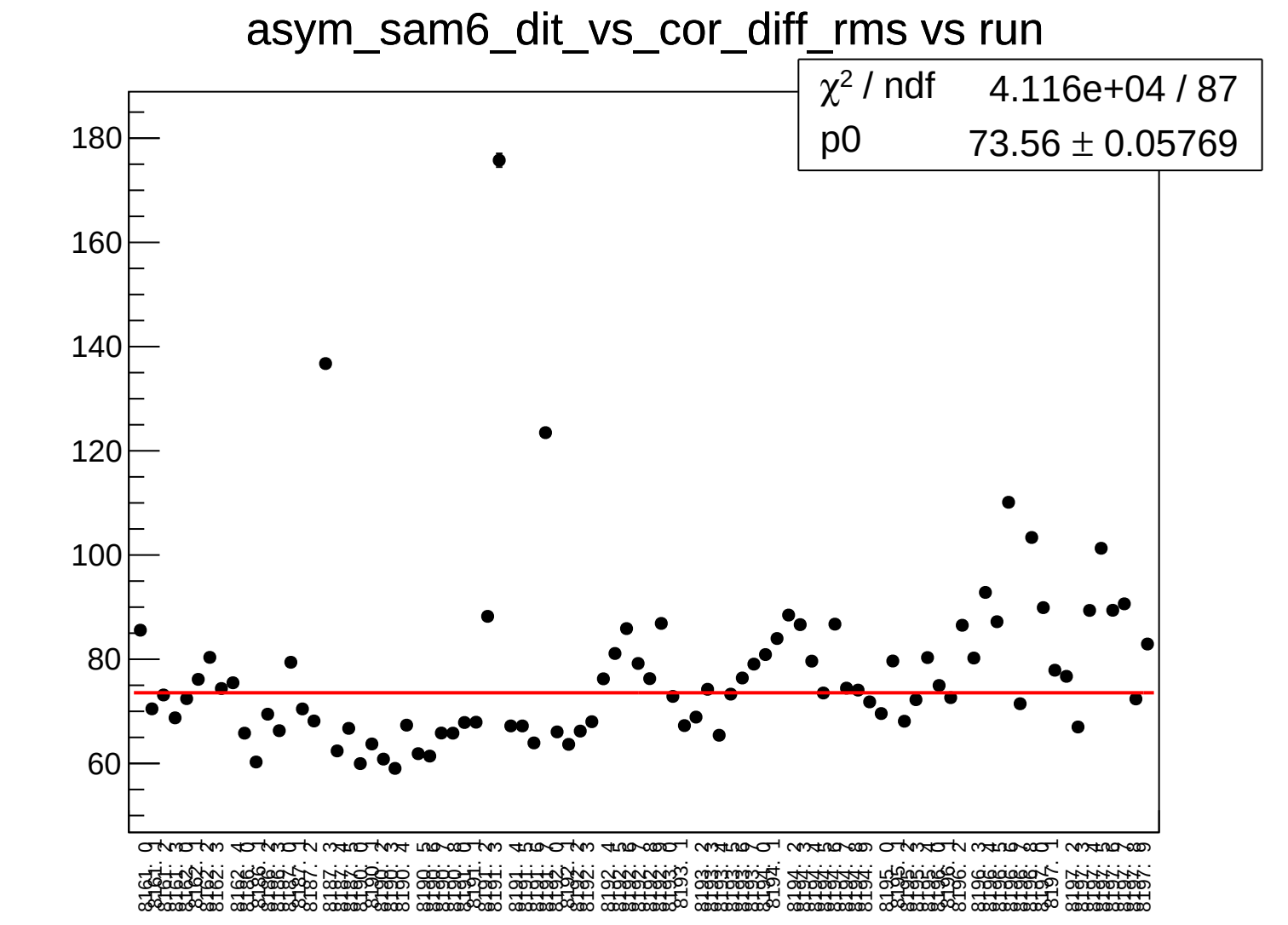

asym_sam6_rms vs run
χ² / ndf 3.434e+04 / 87
p0 1681 ± 1.315
2200
2000
1800
1600
1400
1200

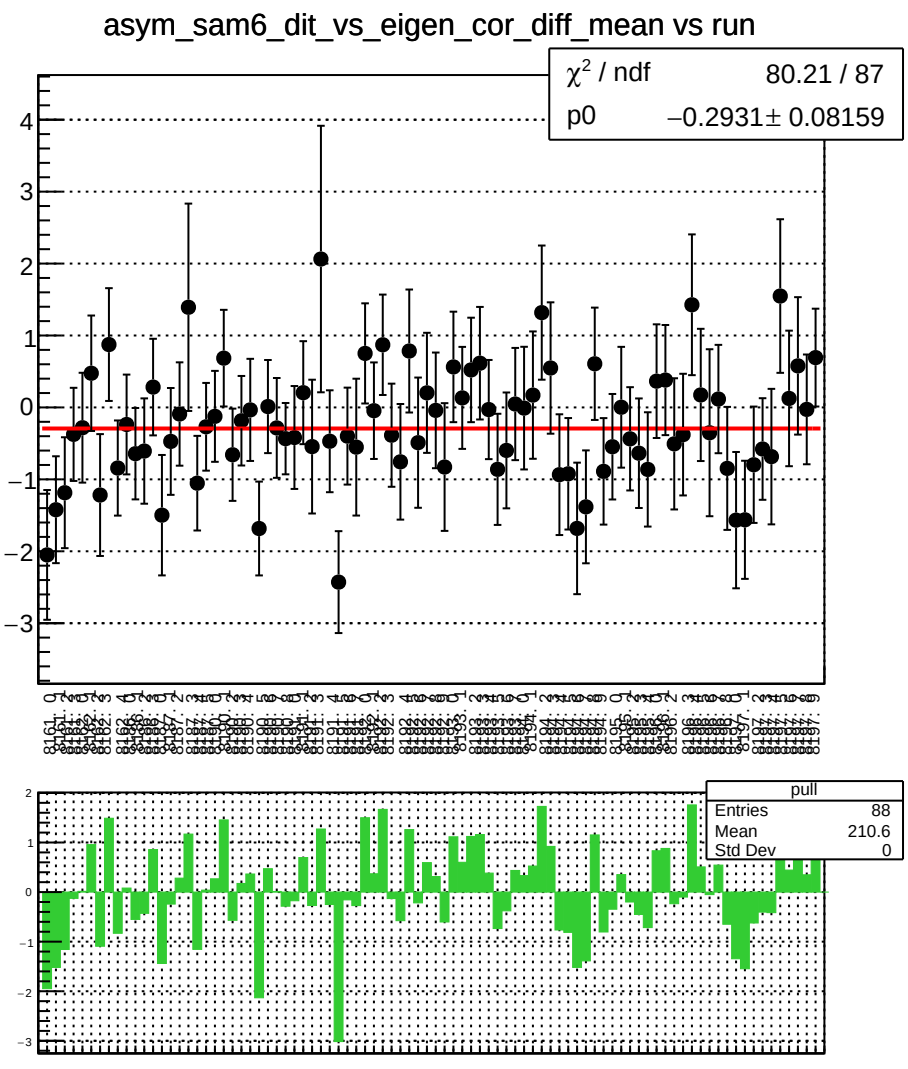

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 101.9 / 87
p0 −2.112e−14 ± 1.614e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 54.96
Std Dev 14.73
2
1
0
−1
−2

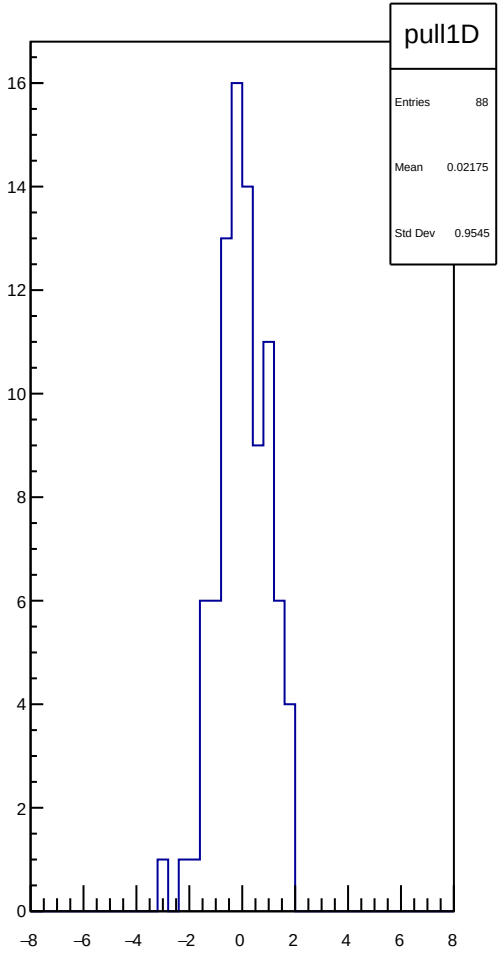

pull1D
Entries 88
Mean 0.04609
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

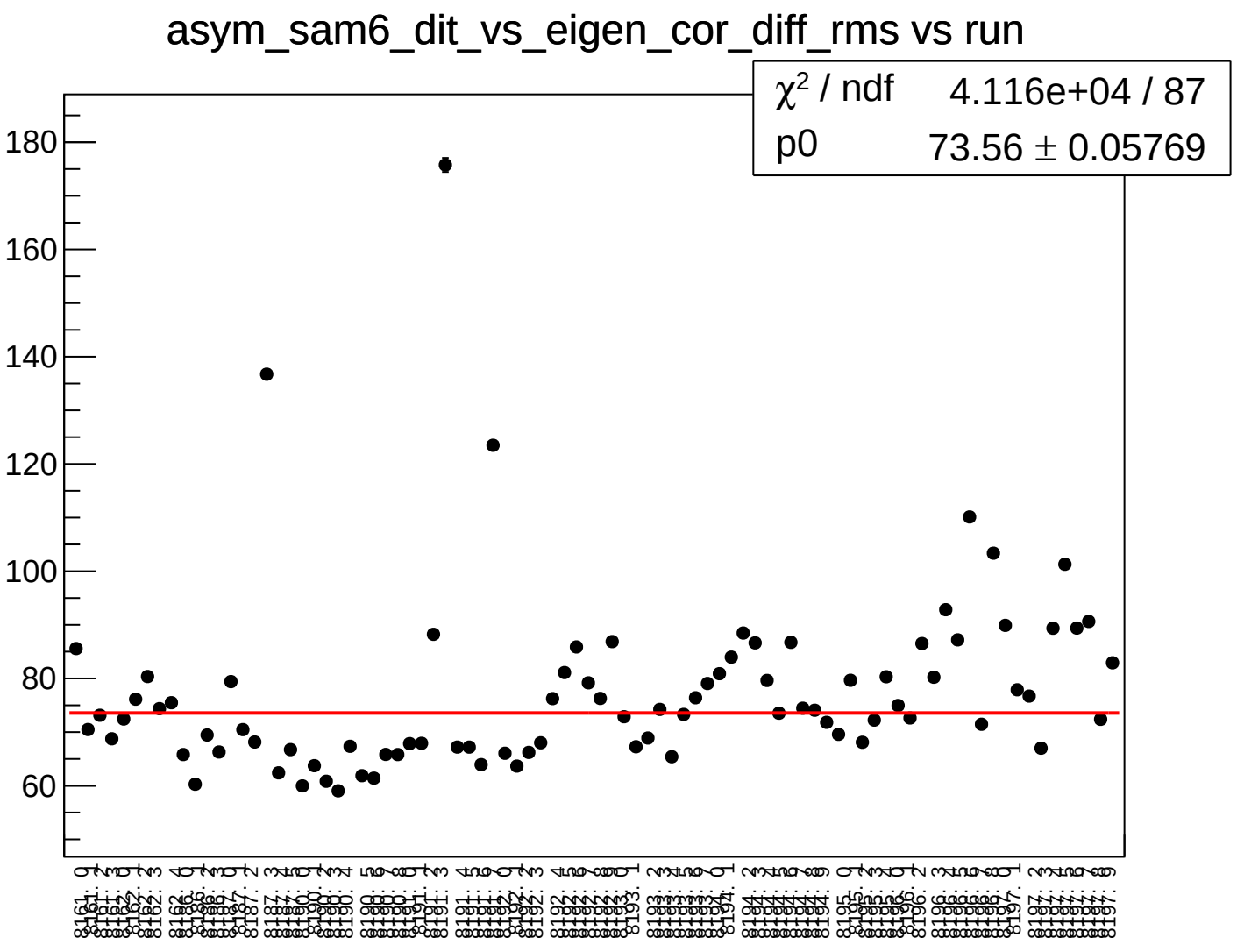

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 8.81e+05 / 87
p0 1.011e−10 ± 1.141e−13
0.1
0.08
0.06
0.04
0.02
0

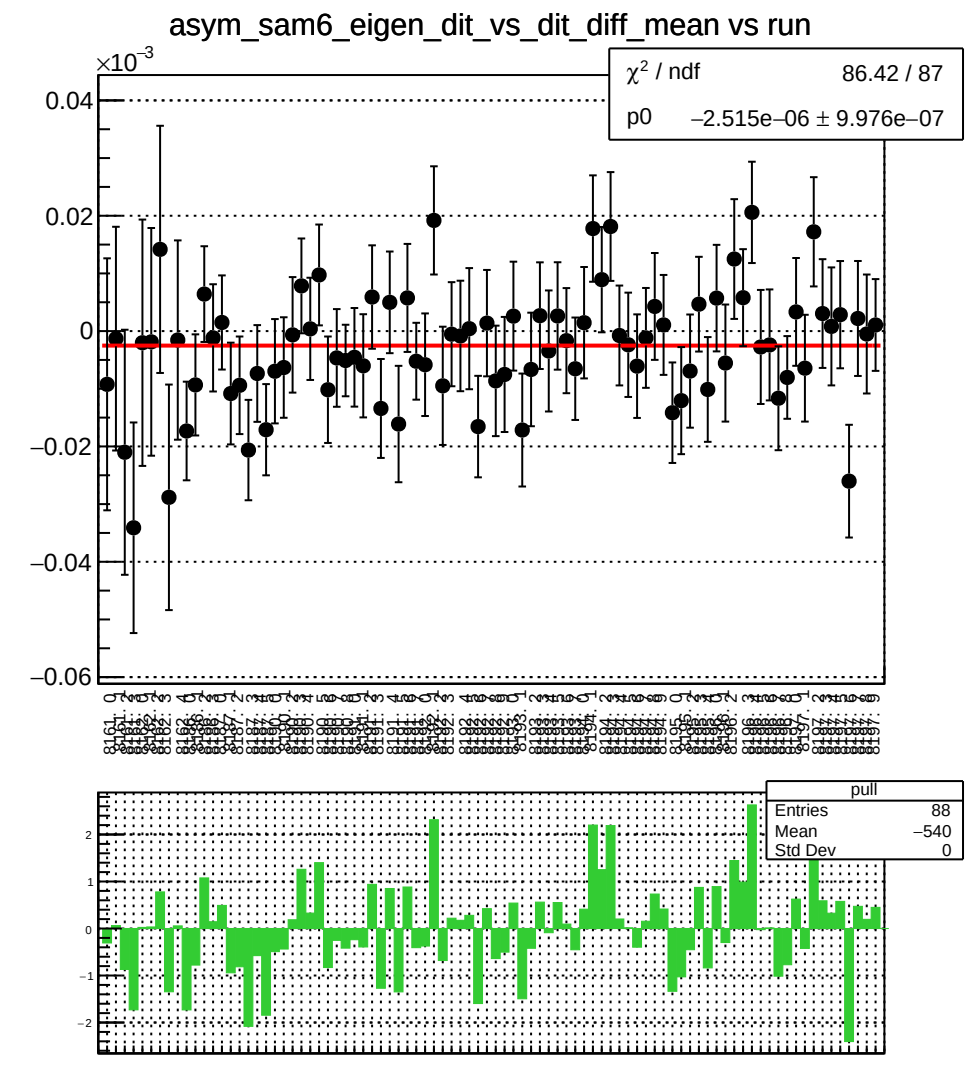

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 80.21 / 87
p0 −0.2931± 0.08159
pull
Entries 88
Mean 210.6
Std Dev 0
pull1D
Entries 88
Mean 0.02175
Std Dev 0.9545

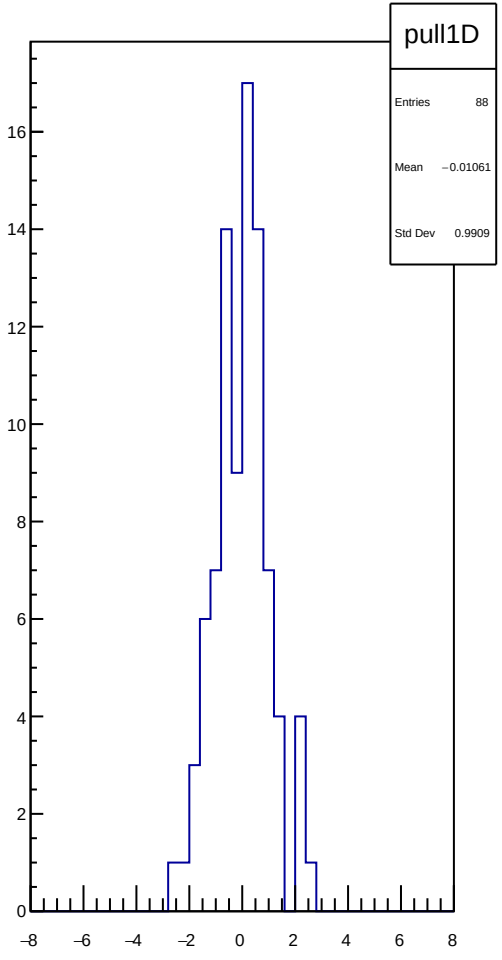

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 4.116e+04 / 87
p0 73.56 ± 0.05769
180
160
140
120
100
80
60


asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.21 / 87
p0 −0.2931± 0.08159
pull
Entries 88
Mean 210.6
Std Dev 0

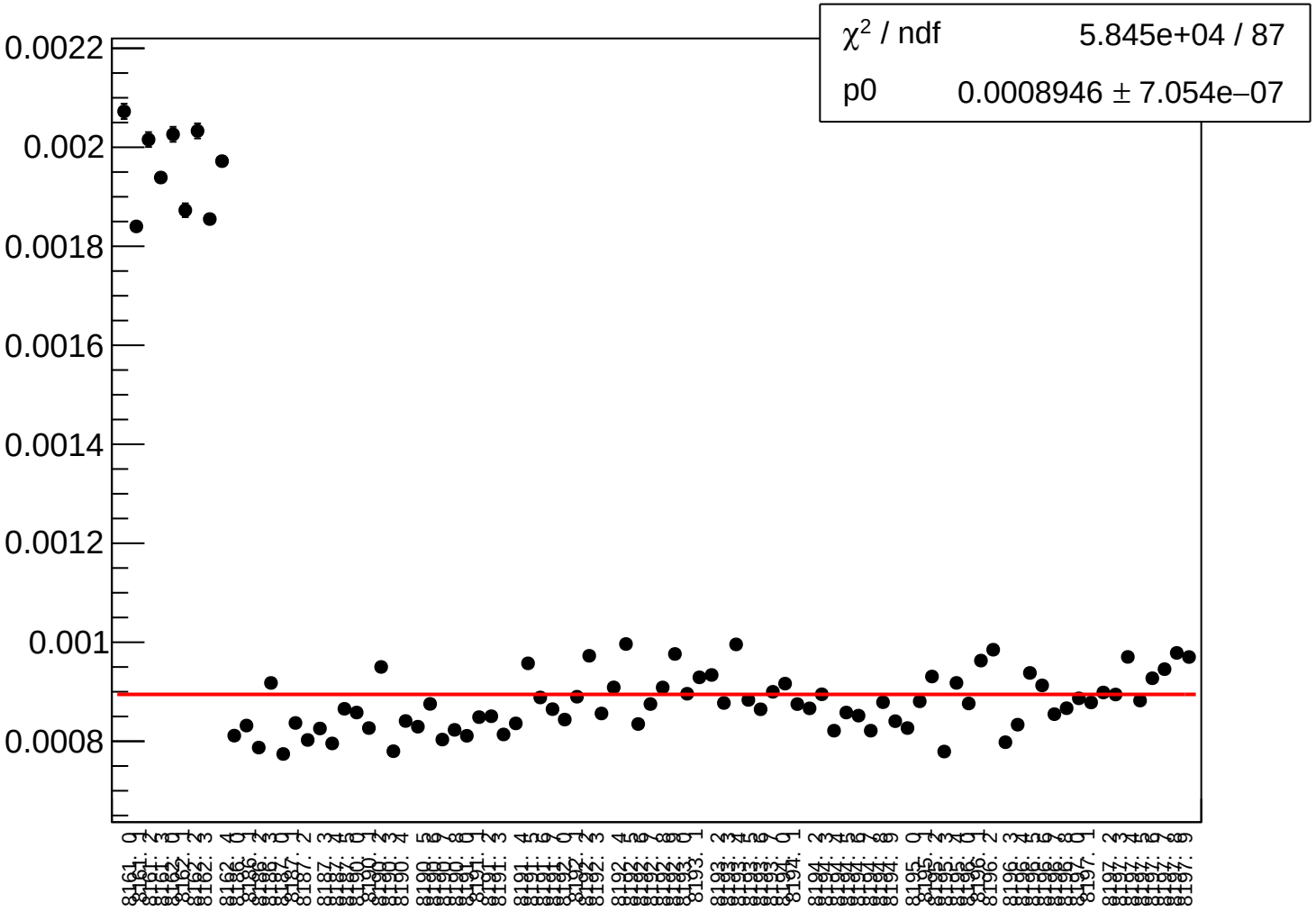

pull1D
Entries 88
Mean 0.02175
Std Dev 0.9545

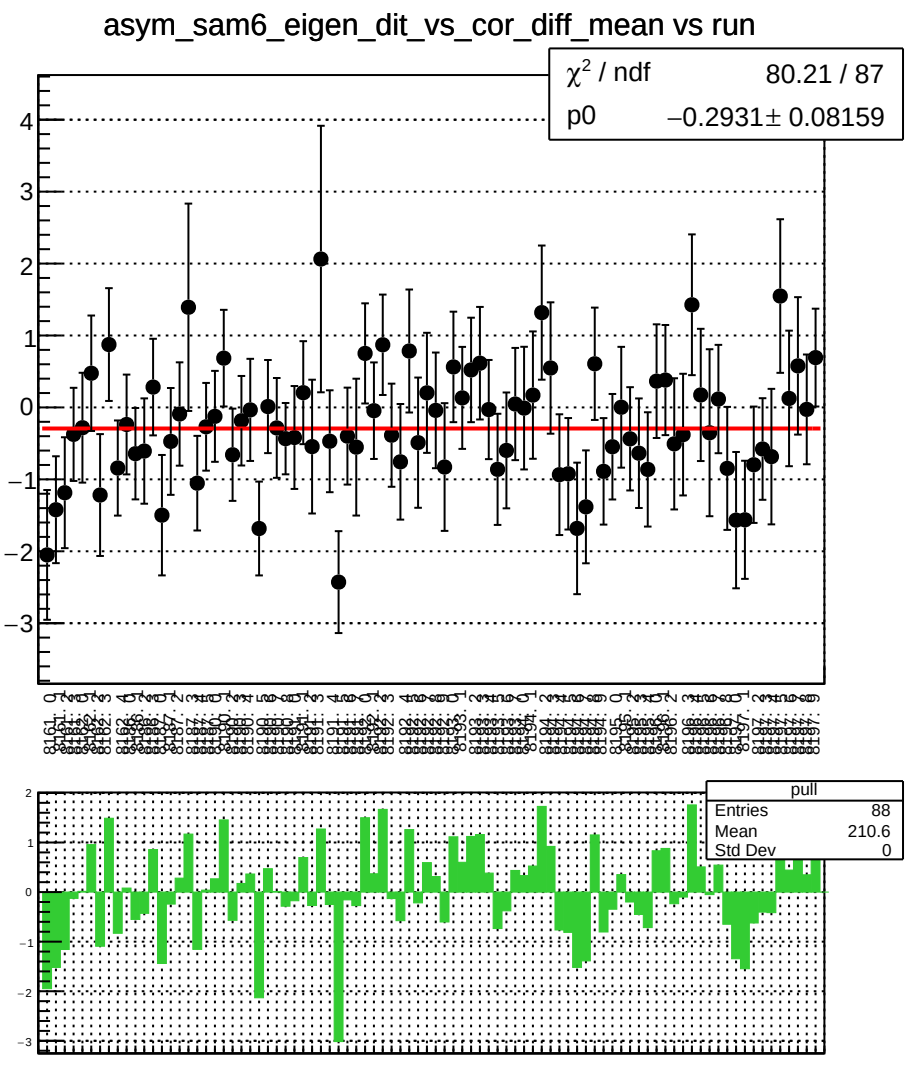

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.116e+04 / 87
p0 73.56 ± 0.05769
180
160
140
120
100
80
60

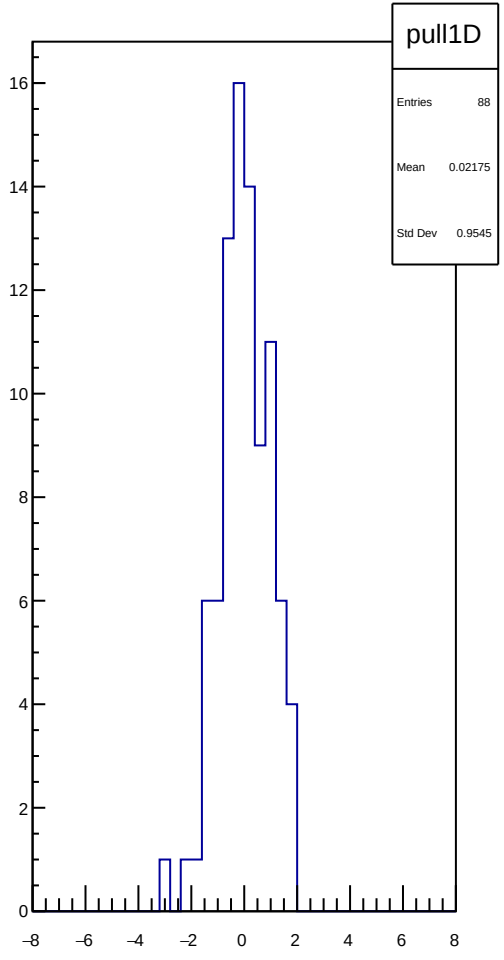

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.42 / 87
p0 −2.515e−06 ± 9.976e−07
pull
Entries 88
Mean −540
Std Dev 0

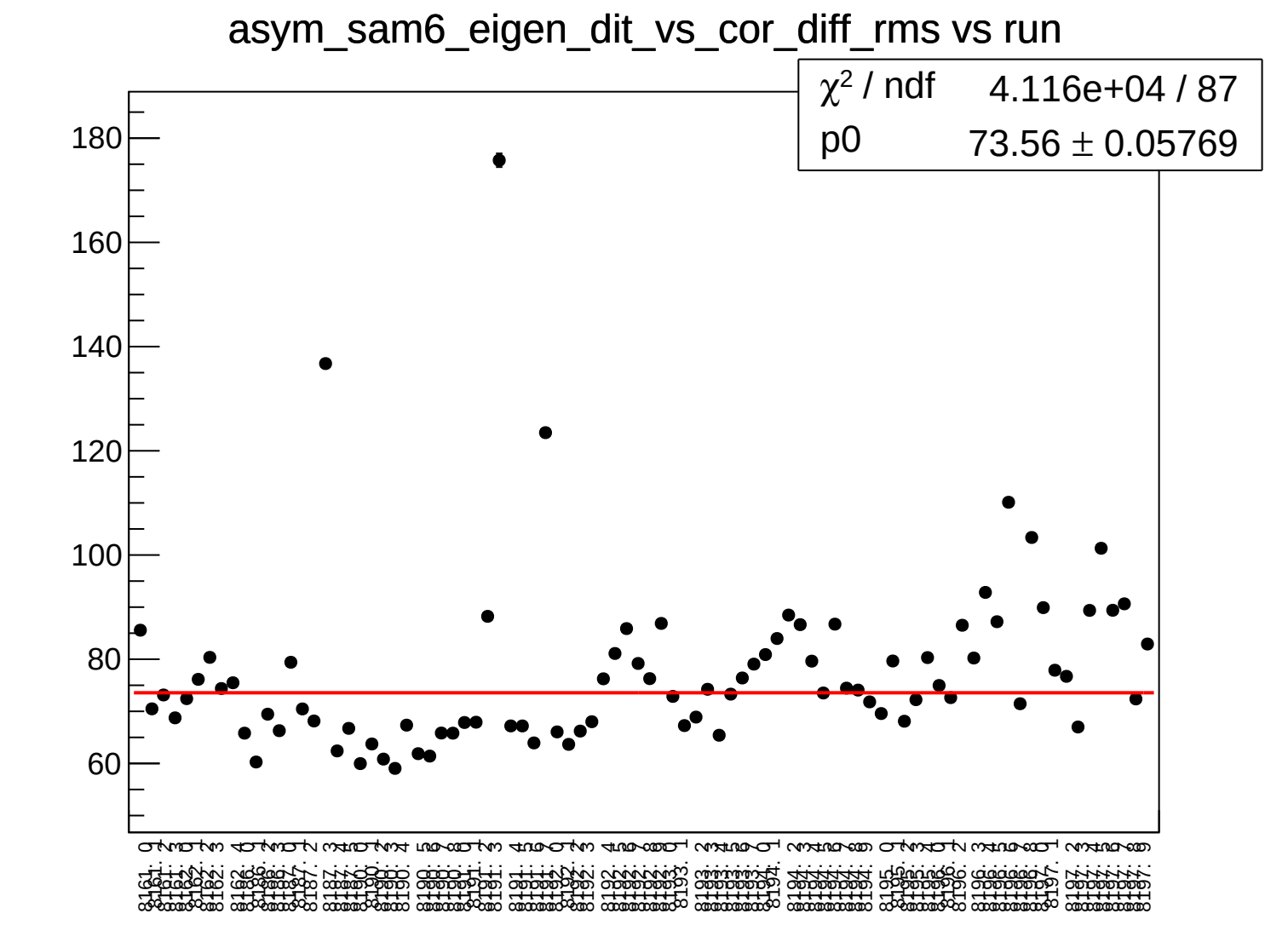

pull1D
Entries 88
Mean −0.01061
Std Dev 0.9909

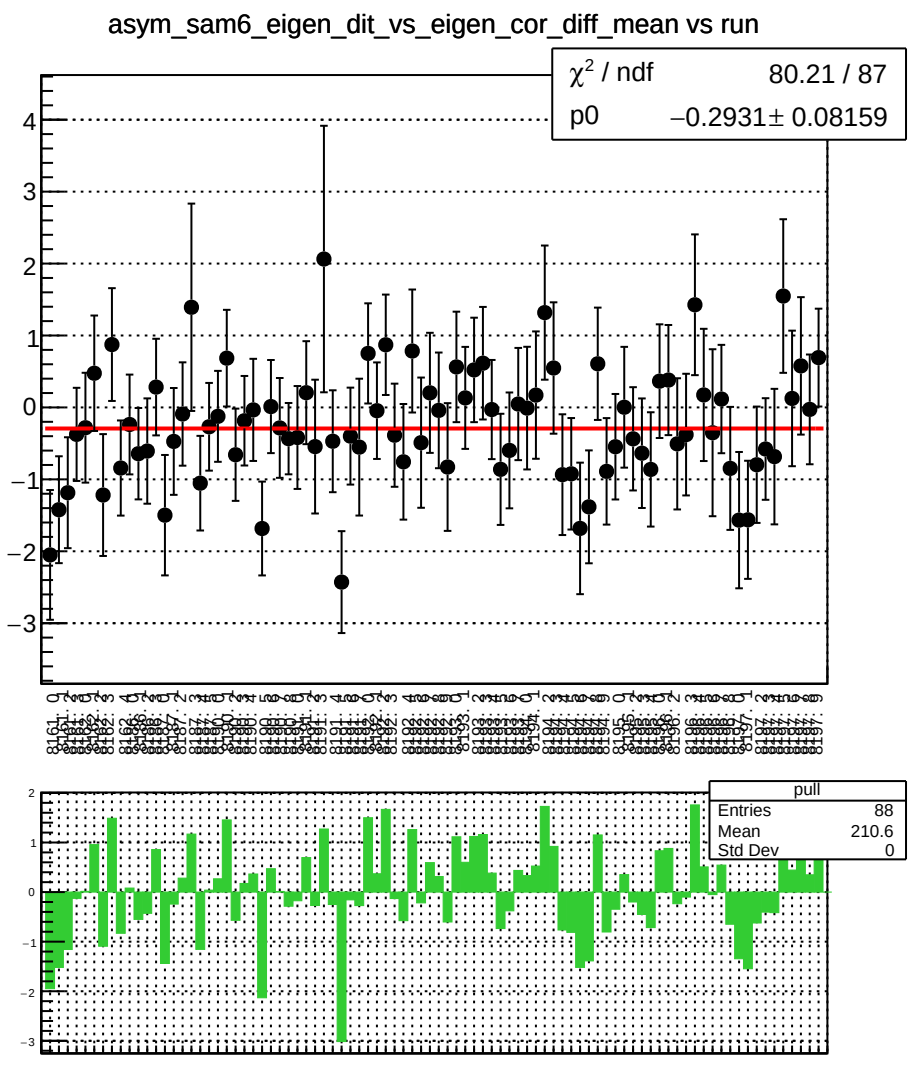
asym_sam6_eigen_dit_vs_dit_diff_rms vs run

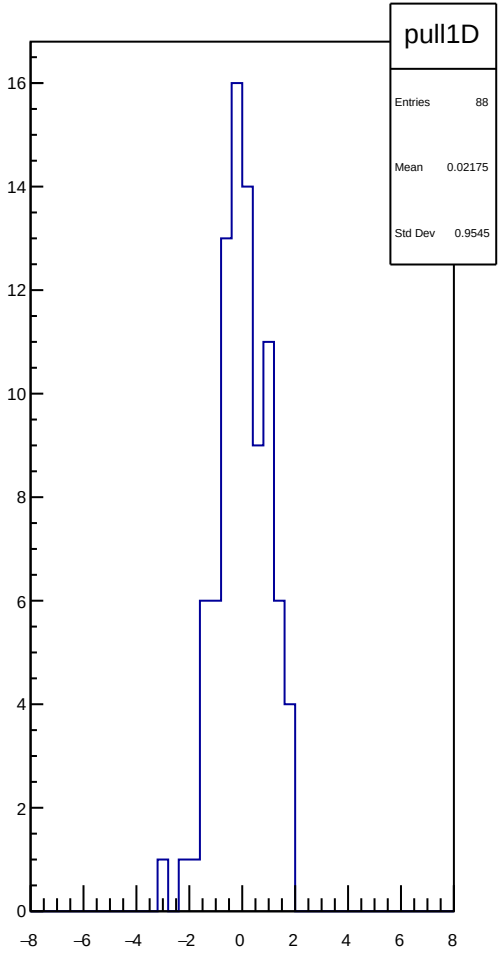


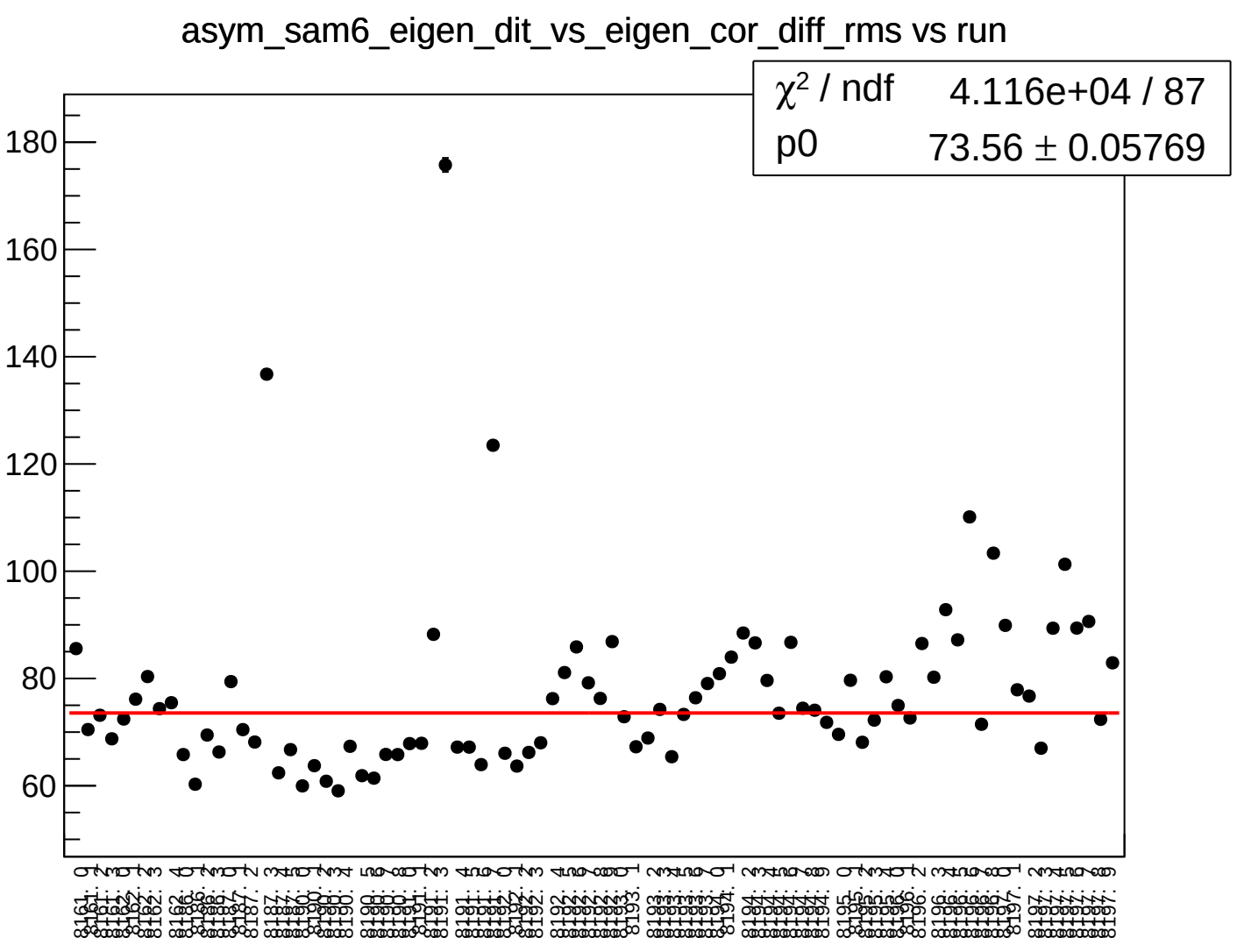

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.21 / 87
p0 −0.2931± 0.08159
pull
Entries 88
Mean 210.6
Std Dev 0

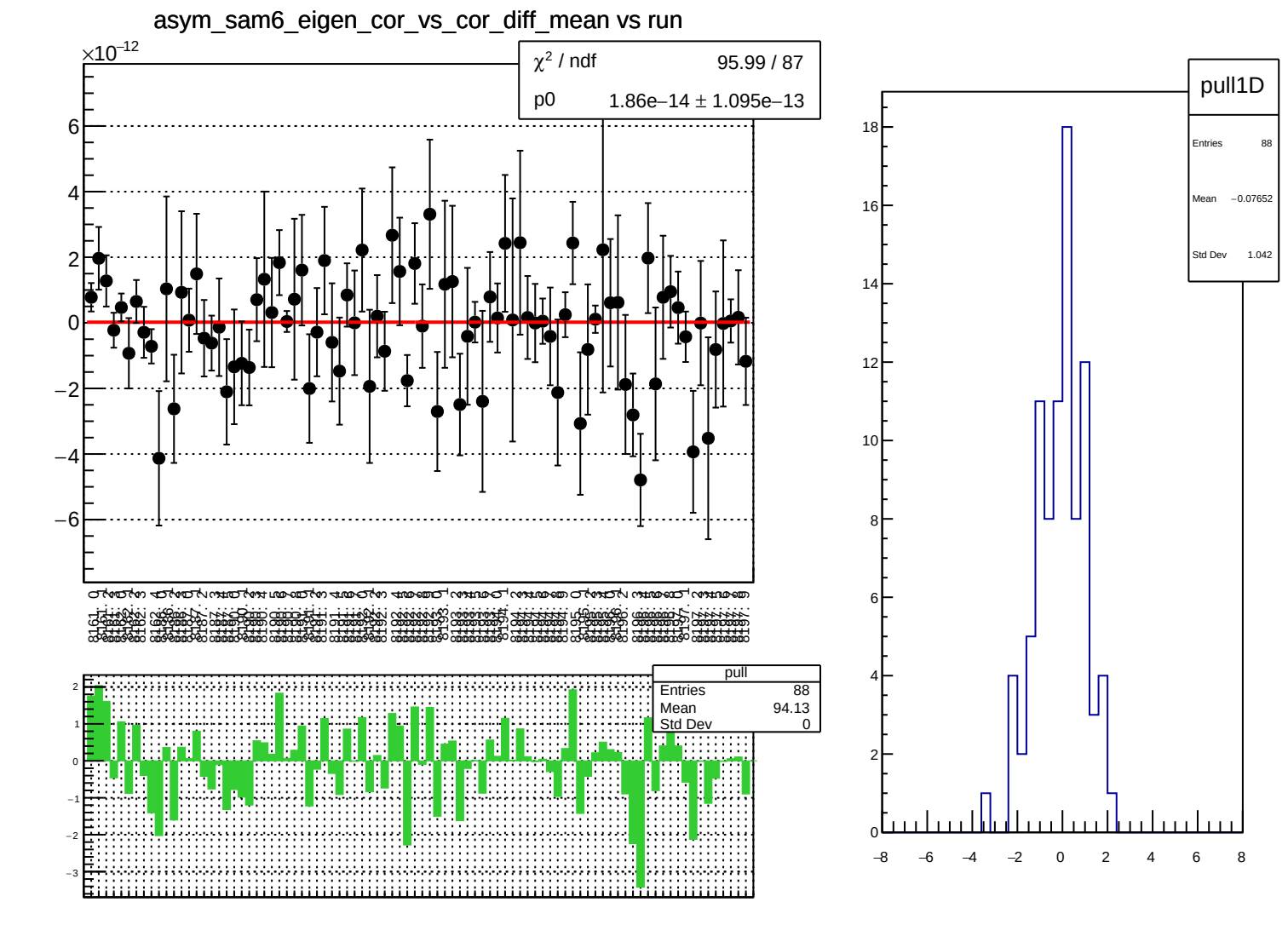

pull1D
Entries 88
Mean 0.02175
Std Dev 0.9545

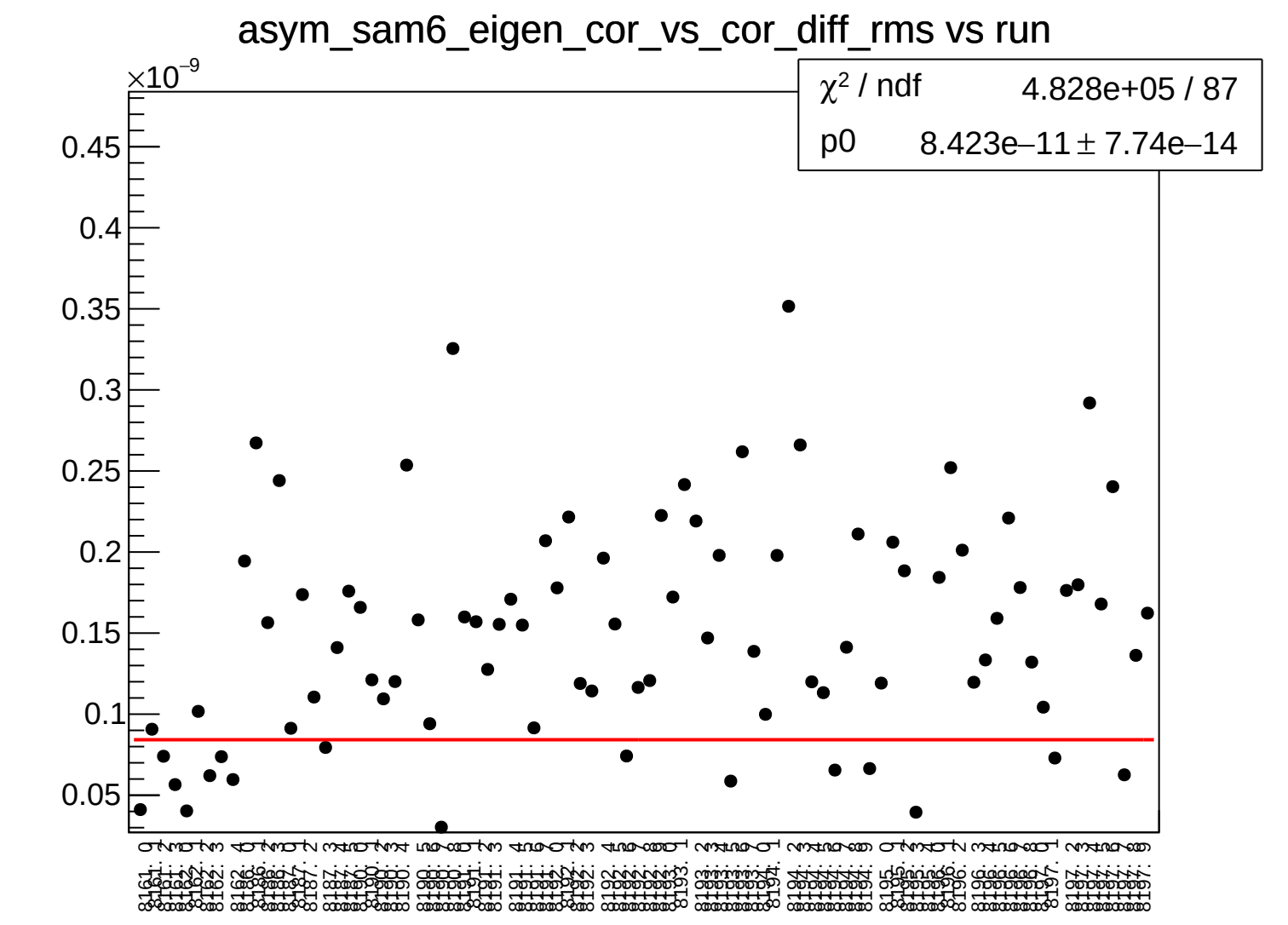

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.116e+04 / 87
p0 73.56 ± 0.05769
180
160
140
120
100
80
60

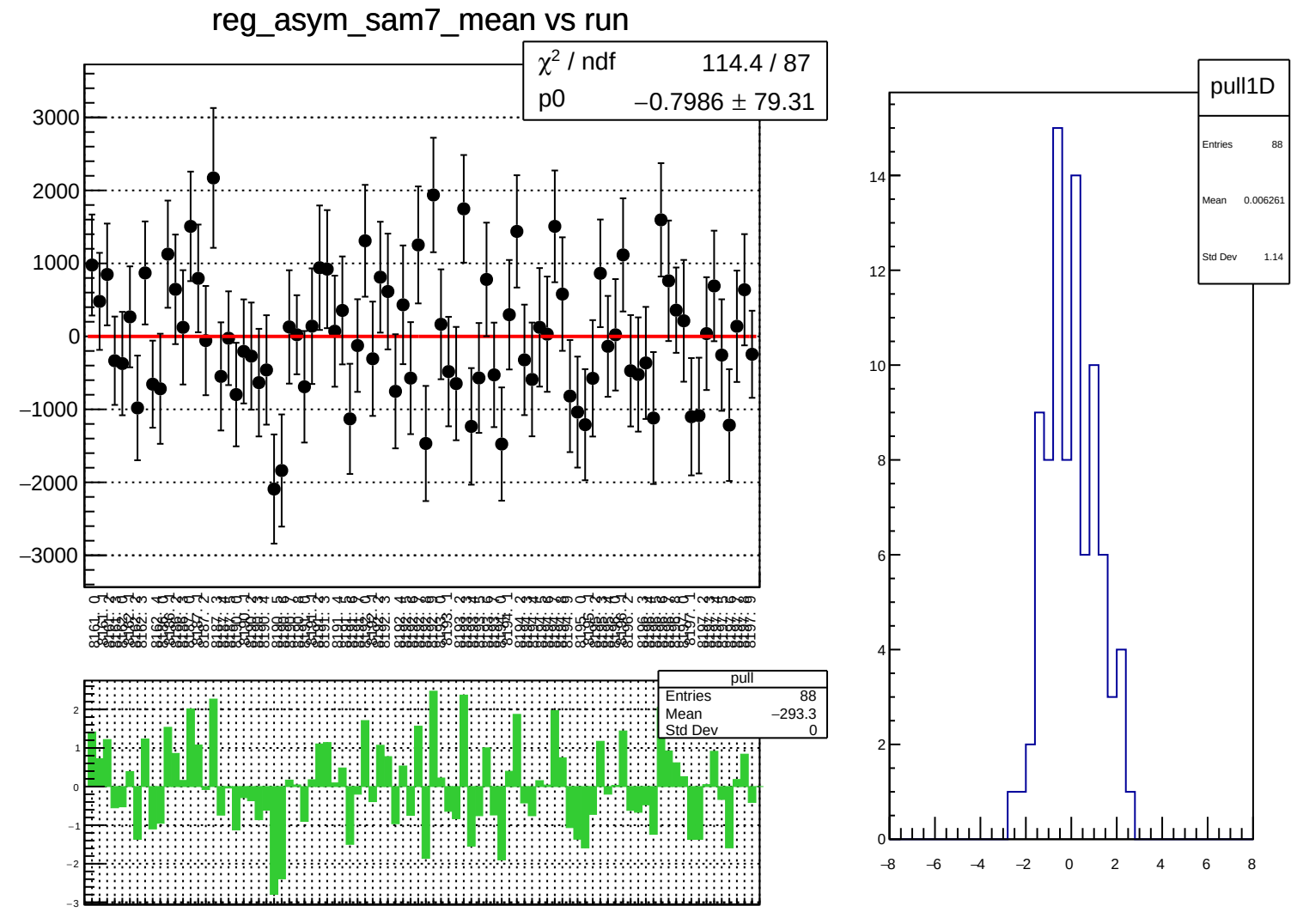

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.21 / 87
p0 −0.2931± 0.08159
pull
Entries 88
Mean 210.6
Std Dev 0

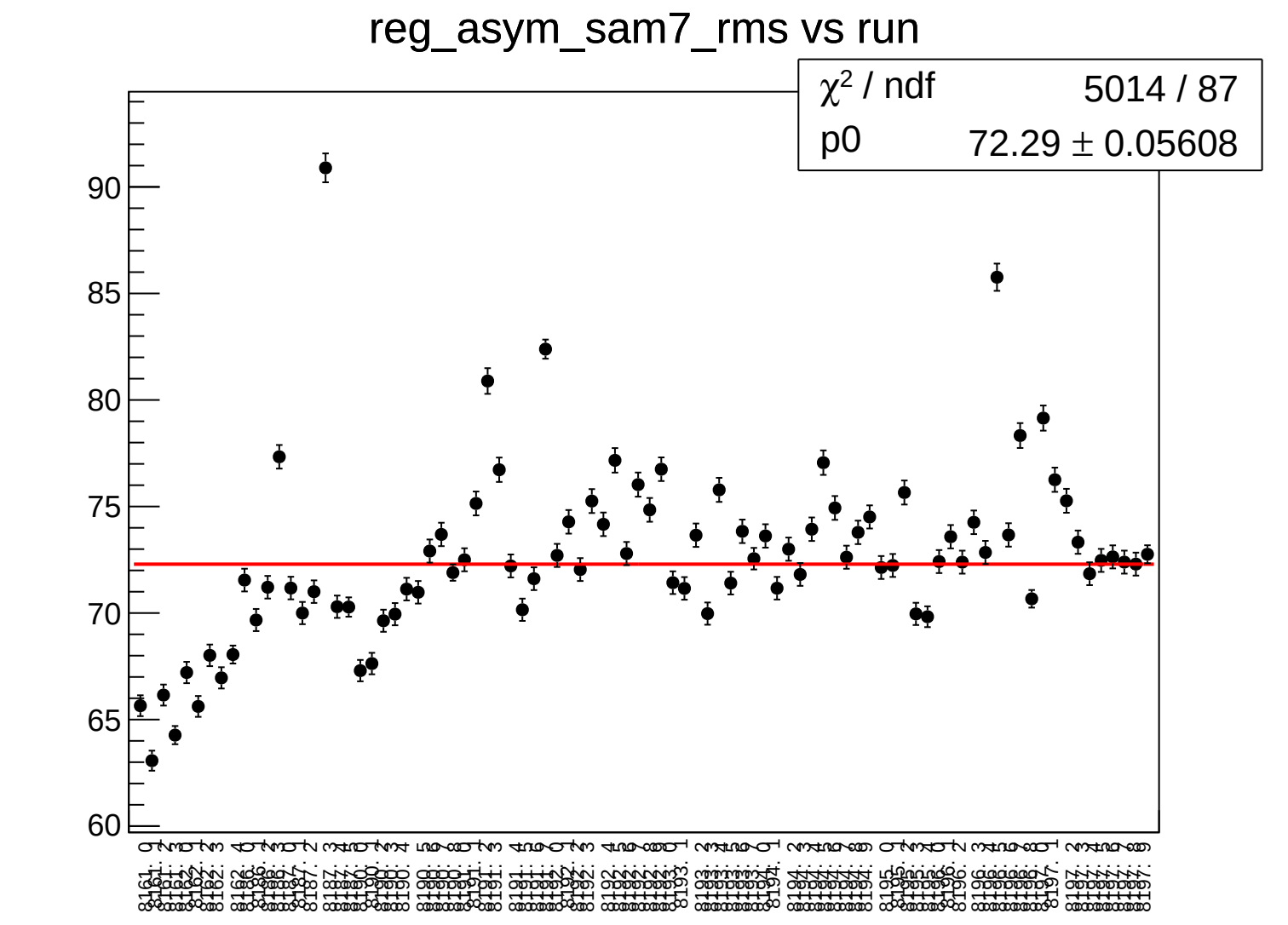

pull1D
Entries 88
Mean 0.02175
Std Dev 0.9545

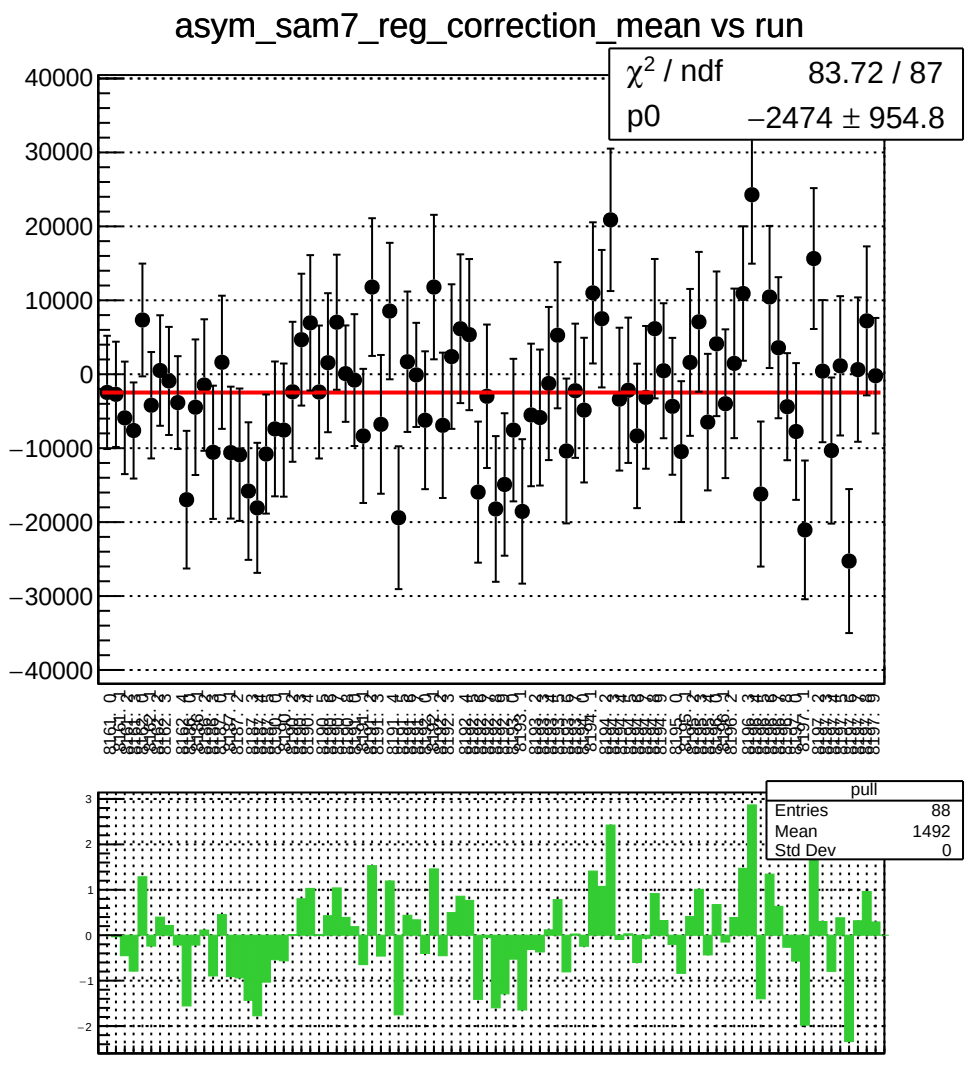

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.116e+04 / 87
p0 73.56 ± 0.05769
180
160
140
120
100
80
60

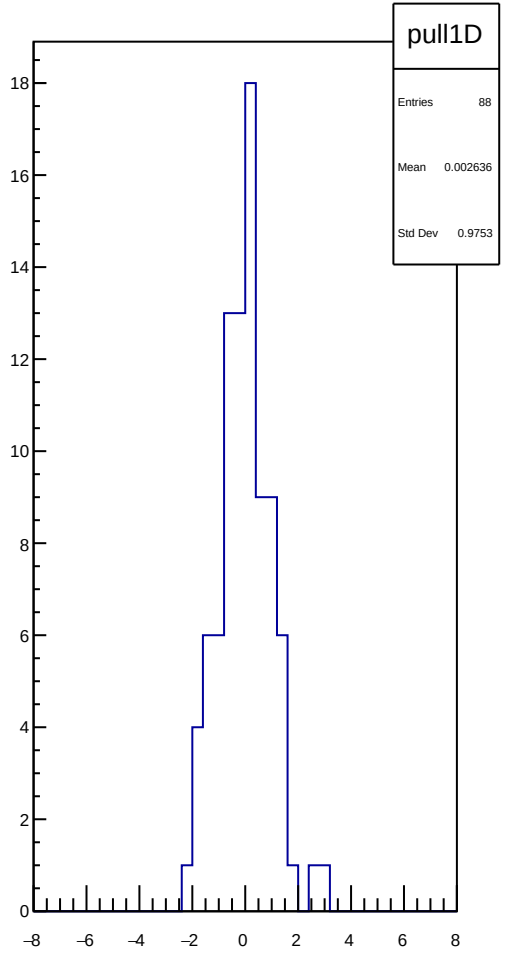

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 95.99 / 87
p0 1.86e−14 ± 1.095e−13
pull
Entries 88
Mean 94.13
Std Dev 0
pull1D
Entries 88
Mean −0.07652
Std Dev 1.042

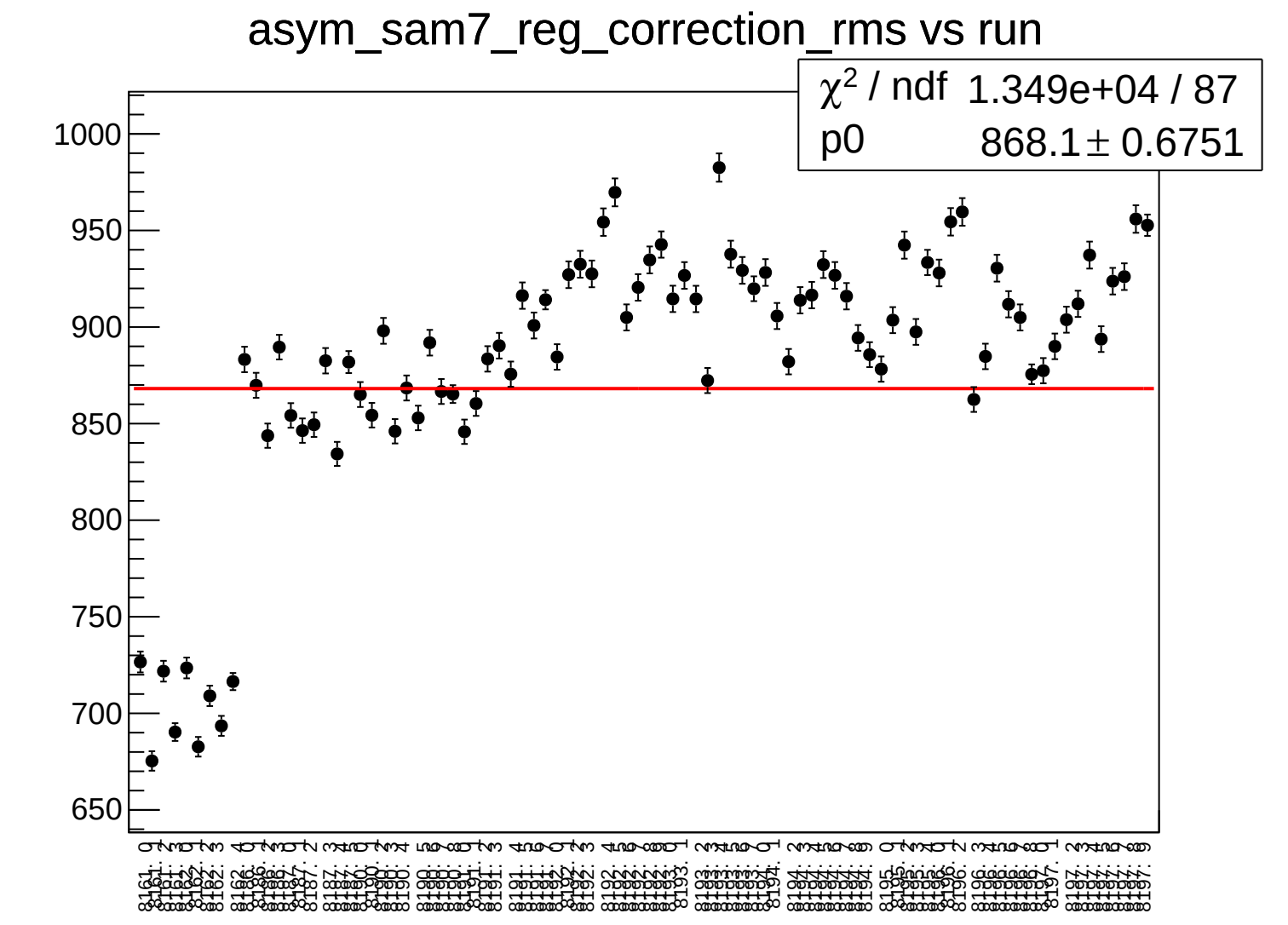

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.828e+05 / 87
p0 8.423e−11 ± 7.74e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

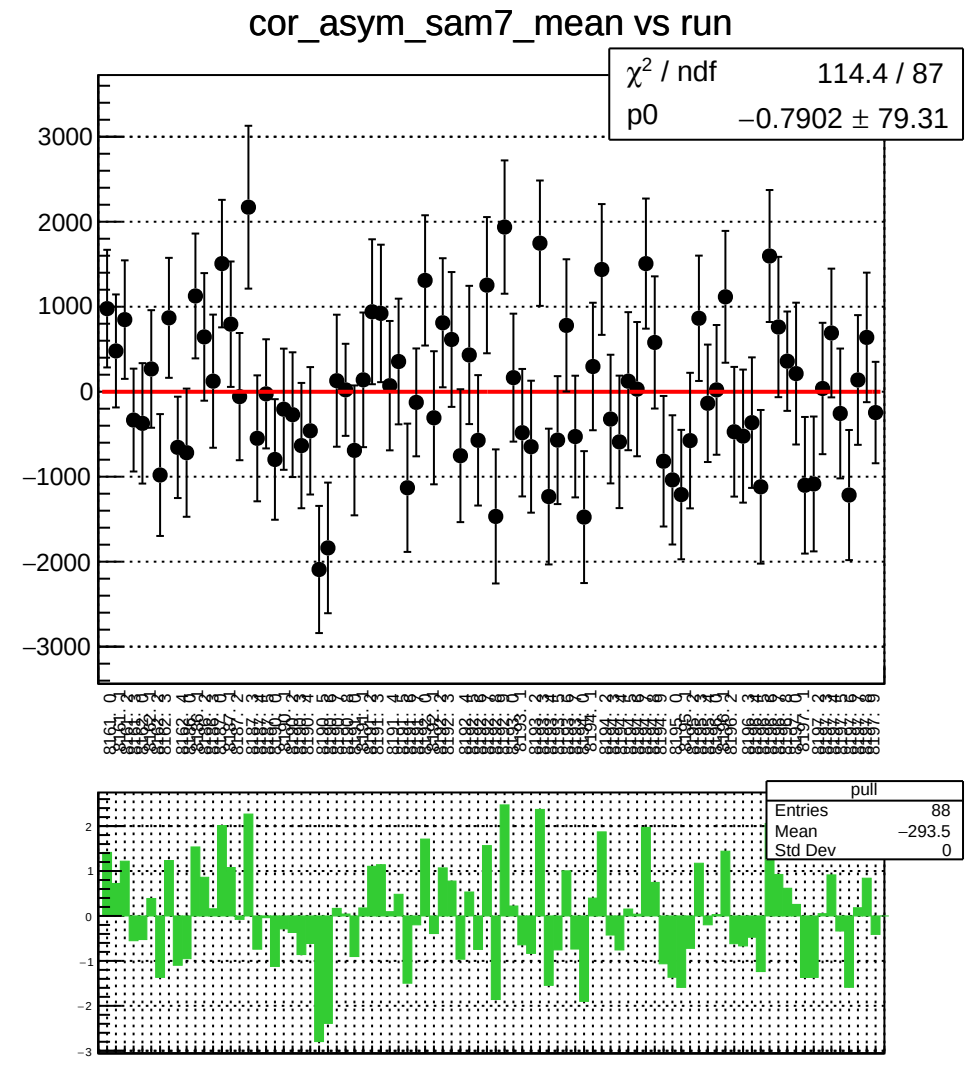

reg_asym_sam7_mean vs run
χ² / ndf 114.4 / 87
p0 −0.7986 ± 79.31
pull
Entries 88
Mean −293.3
Std Dev 0
pull1D
Entries 88
Mean 0.006261
Std Dev 1.14

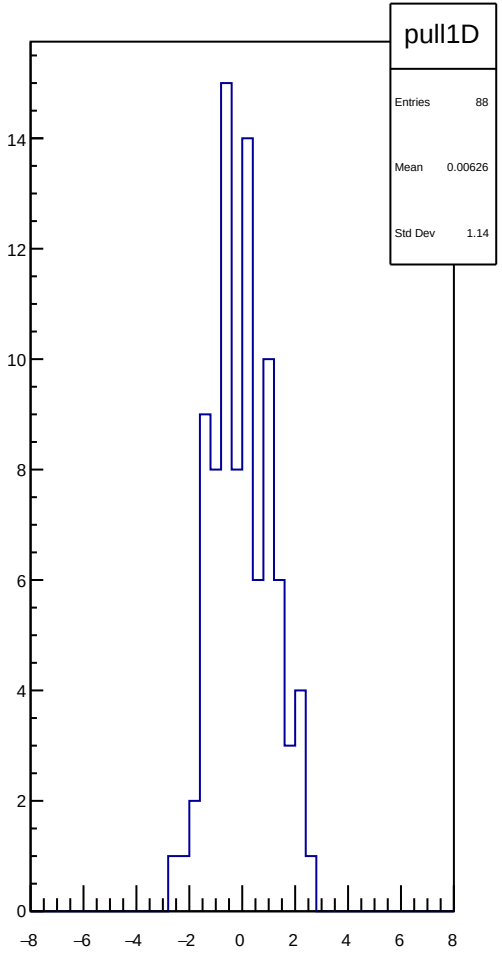

reg_asym_sam7_rms vs run
χ² / ndf 5014 / 87
p0 72.29 ± 0.05608
90
85
80
75
70
65
60

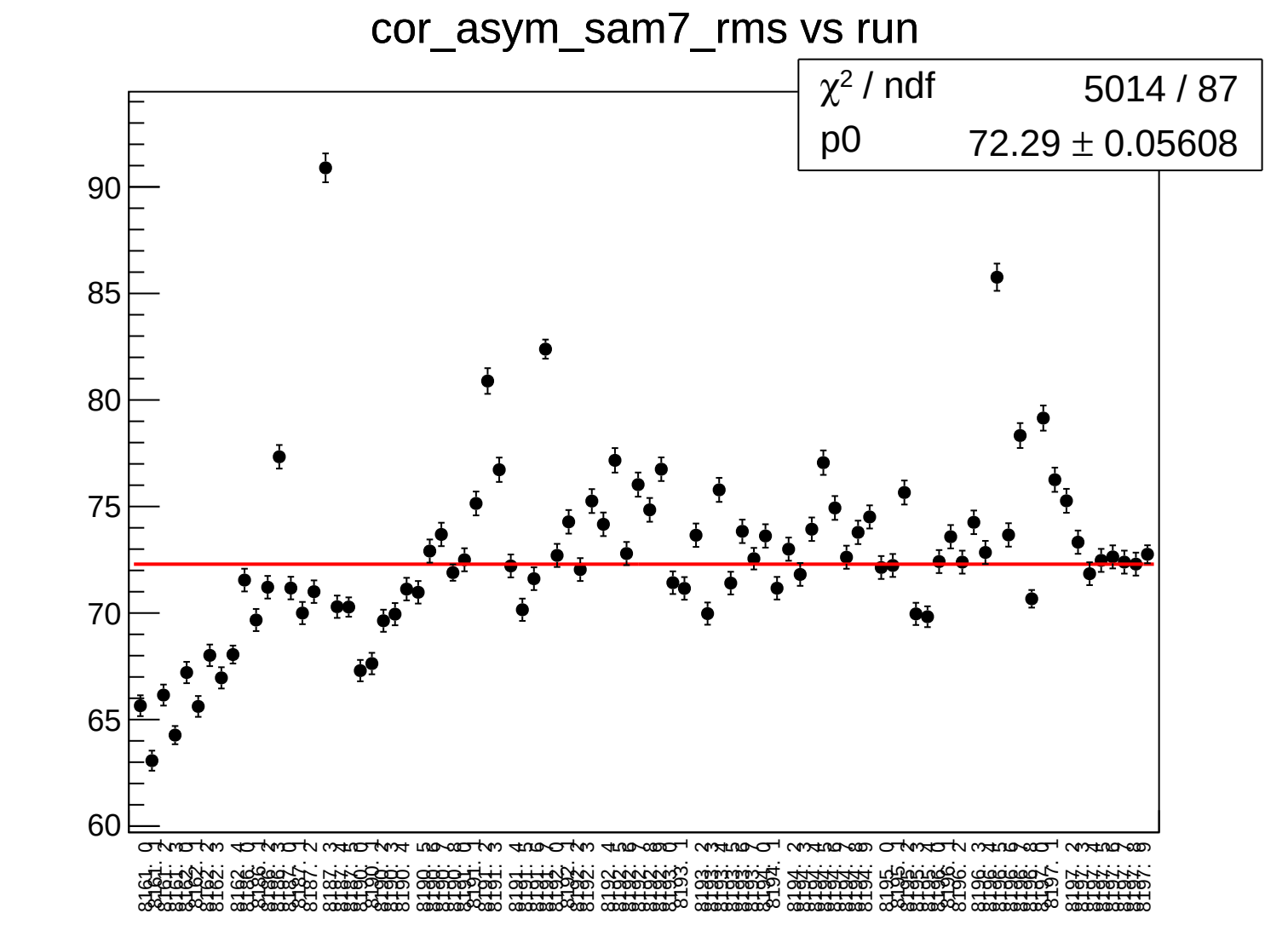

asym_sam7_reg_correction_mean vs run
χ² / ndf 83.72 / 87
p0 −2474 ± 954.8
pull
Entries 88
Mean 1492
Std Dev 0

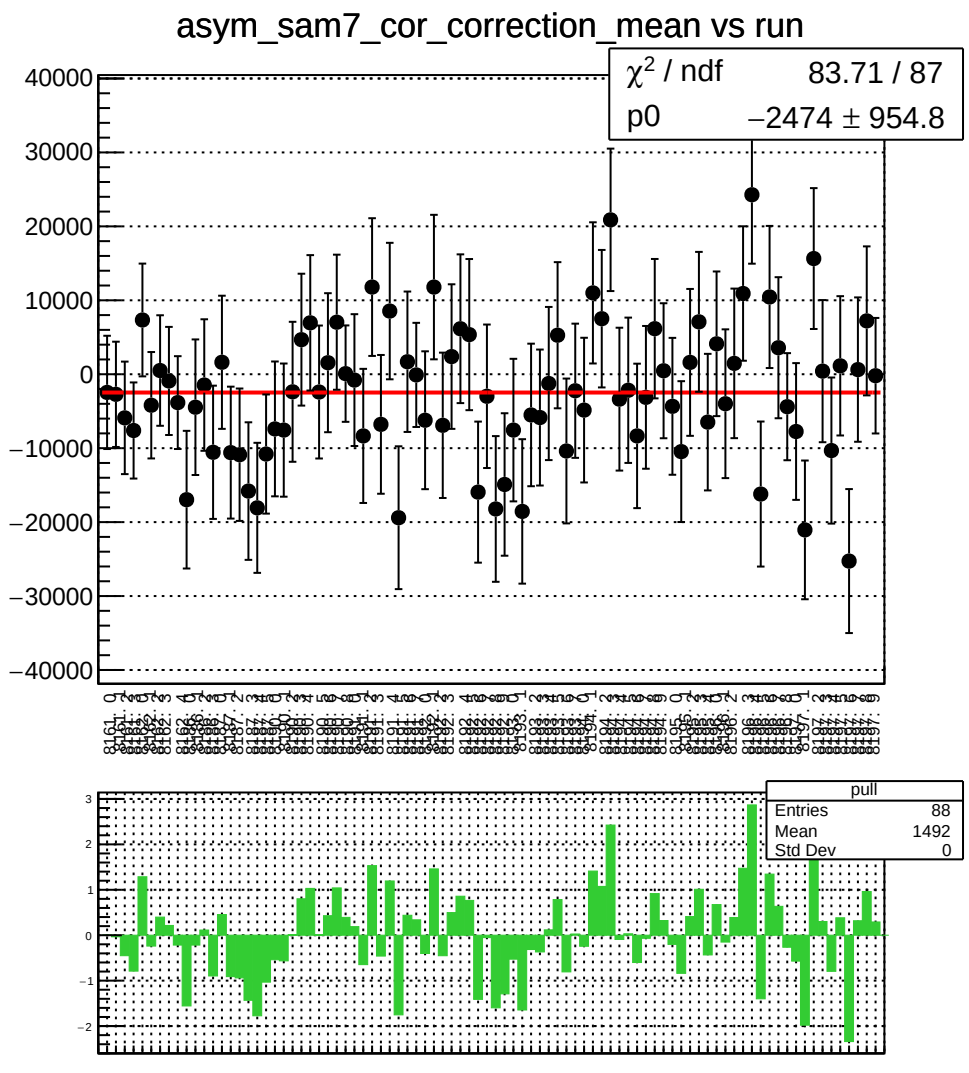

pull1D
Entries 88
Mean 0.002636
Std Dev 0.9753

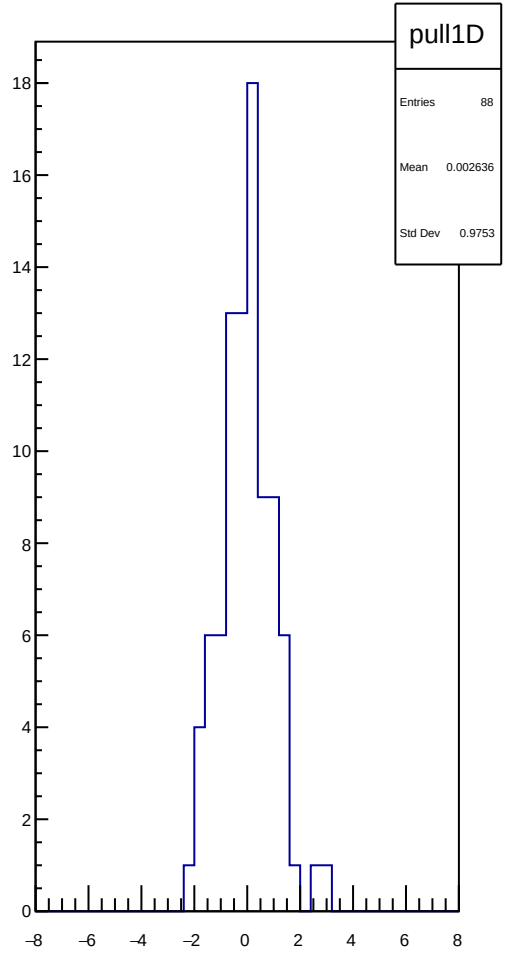

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.349e+04 / 87
p0 868.1 ± 0.6751
1000
950
900
850
800
750
700
650

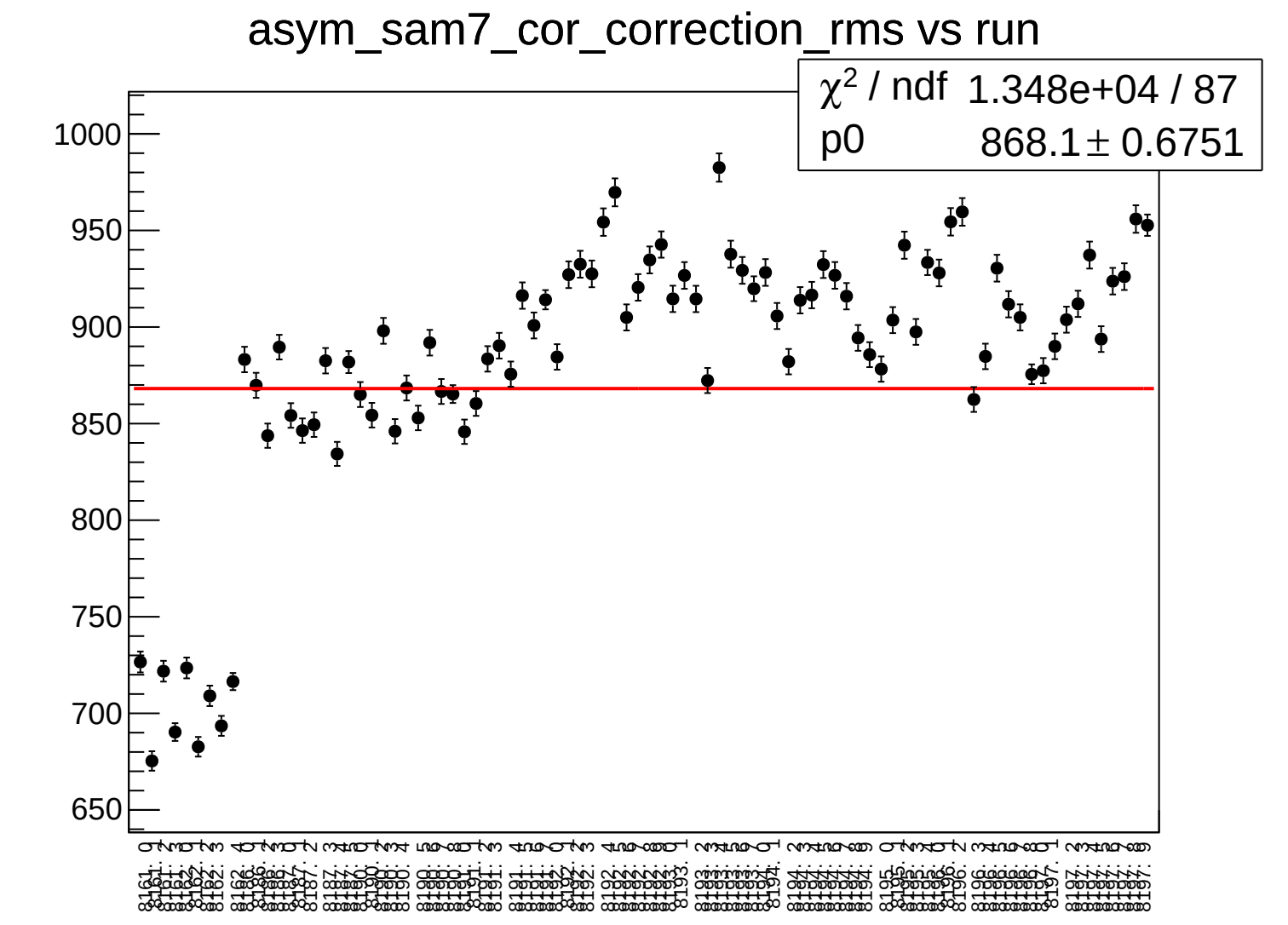

cor_asym_sam7_mean vs run
χ² / ndf 114.4 / 87
p0 −0.7902 ± 79.31
pull
Entries 88
Mean −293.5
Std Dev 0

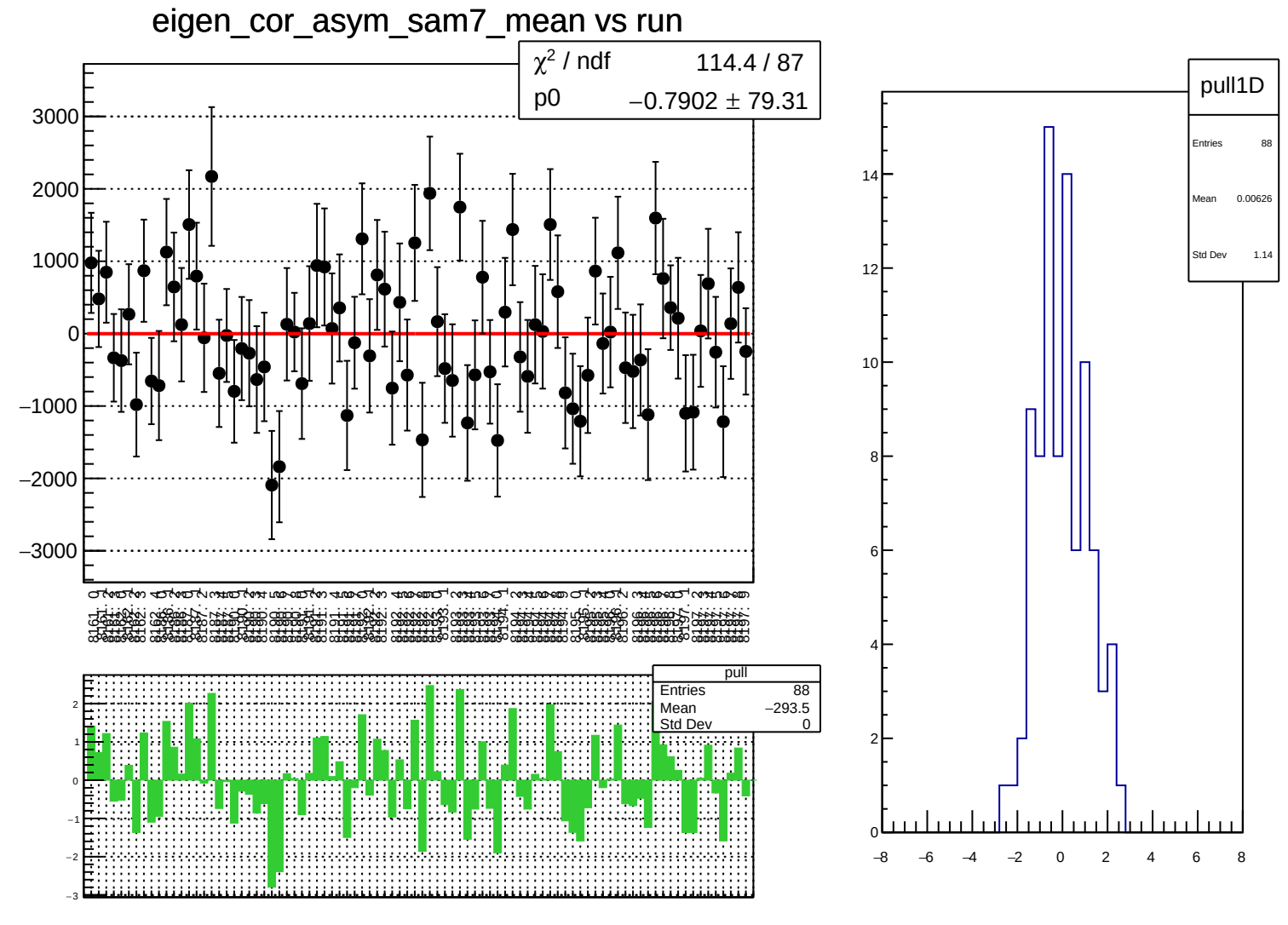

pull1D
Entries 88
Mean 0.00626
Std Dev 1.14

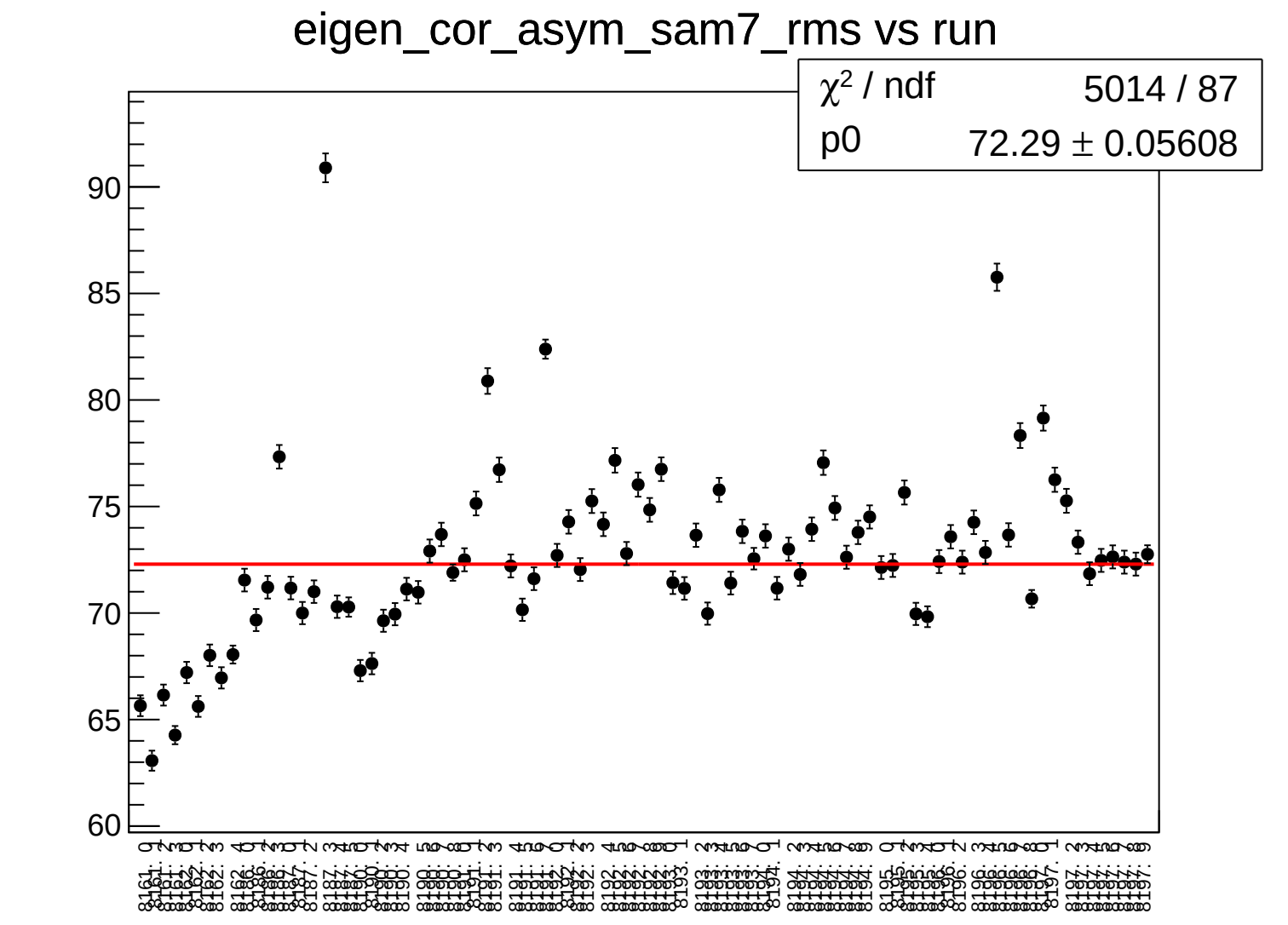

cor_asym_sam7_rms vs run
χ² / ndf 5014 / 87
p0 72.29 ± 0.05608
90
85
80
75
70
65
60

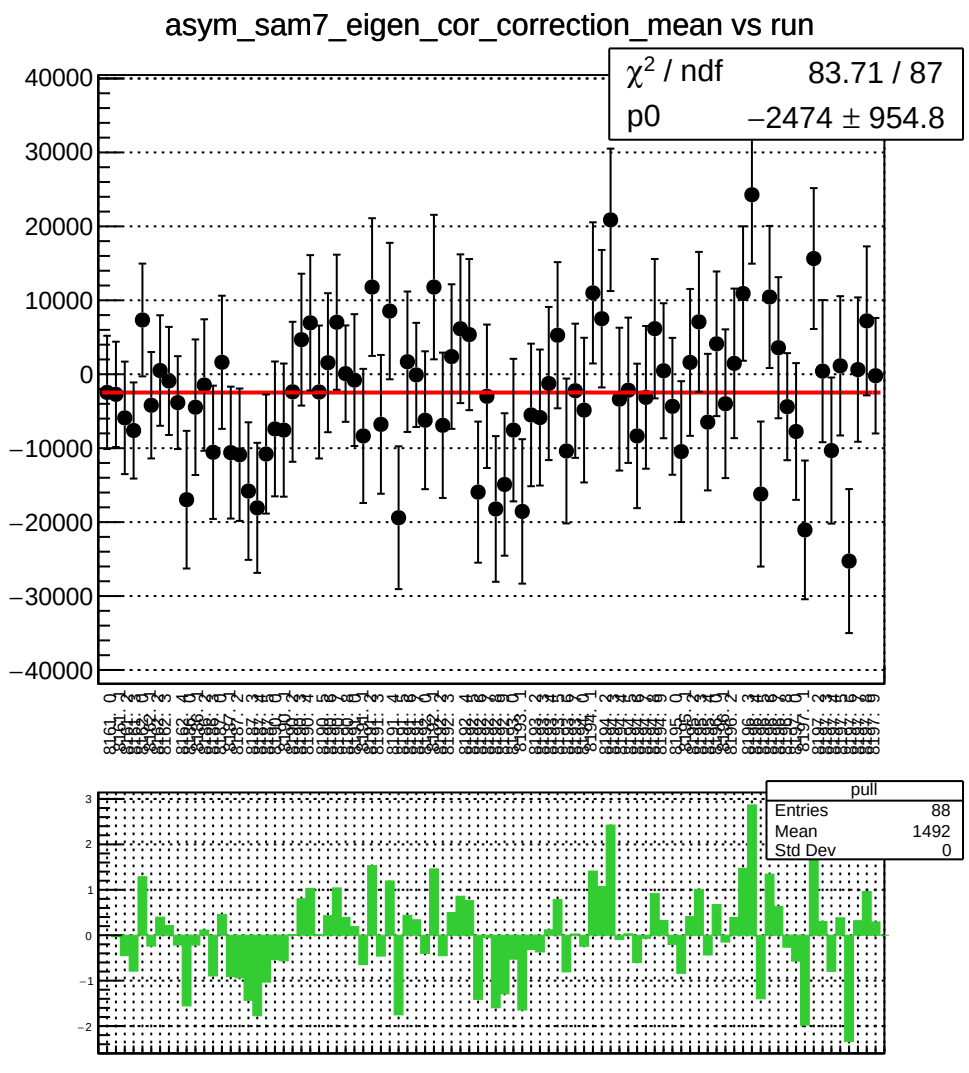

asym_sam7_cor_correction_mean vs run
χ² / ndf 83.71 / 87
p0 −2474 ± 954.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 1492
Std Dev 0
3
2
1
0
−1
−2

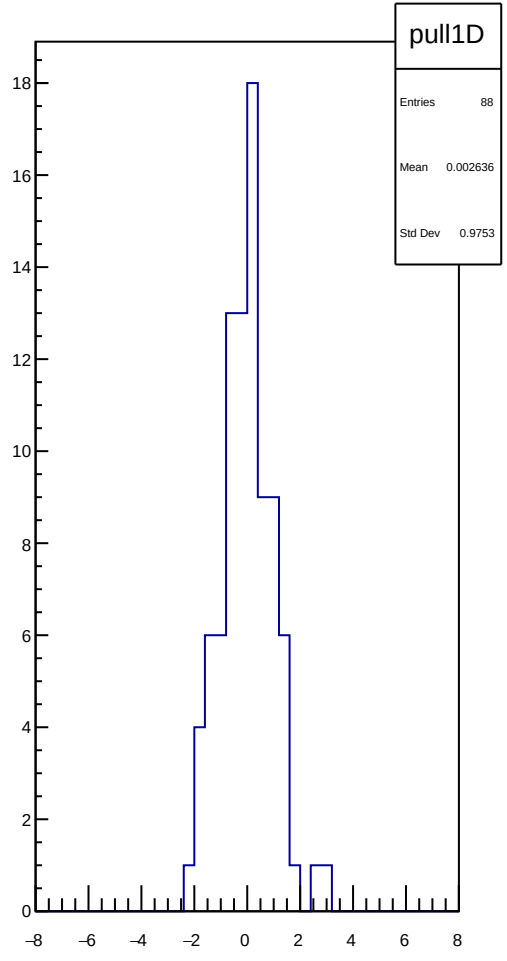

pull1D
Entries 88
Mean 0.002636
Std Dev 0.9753
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

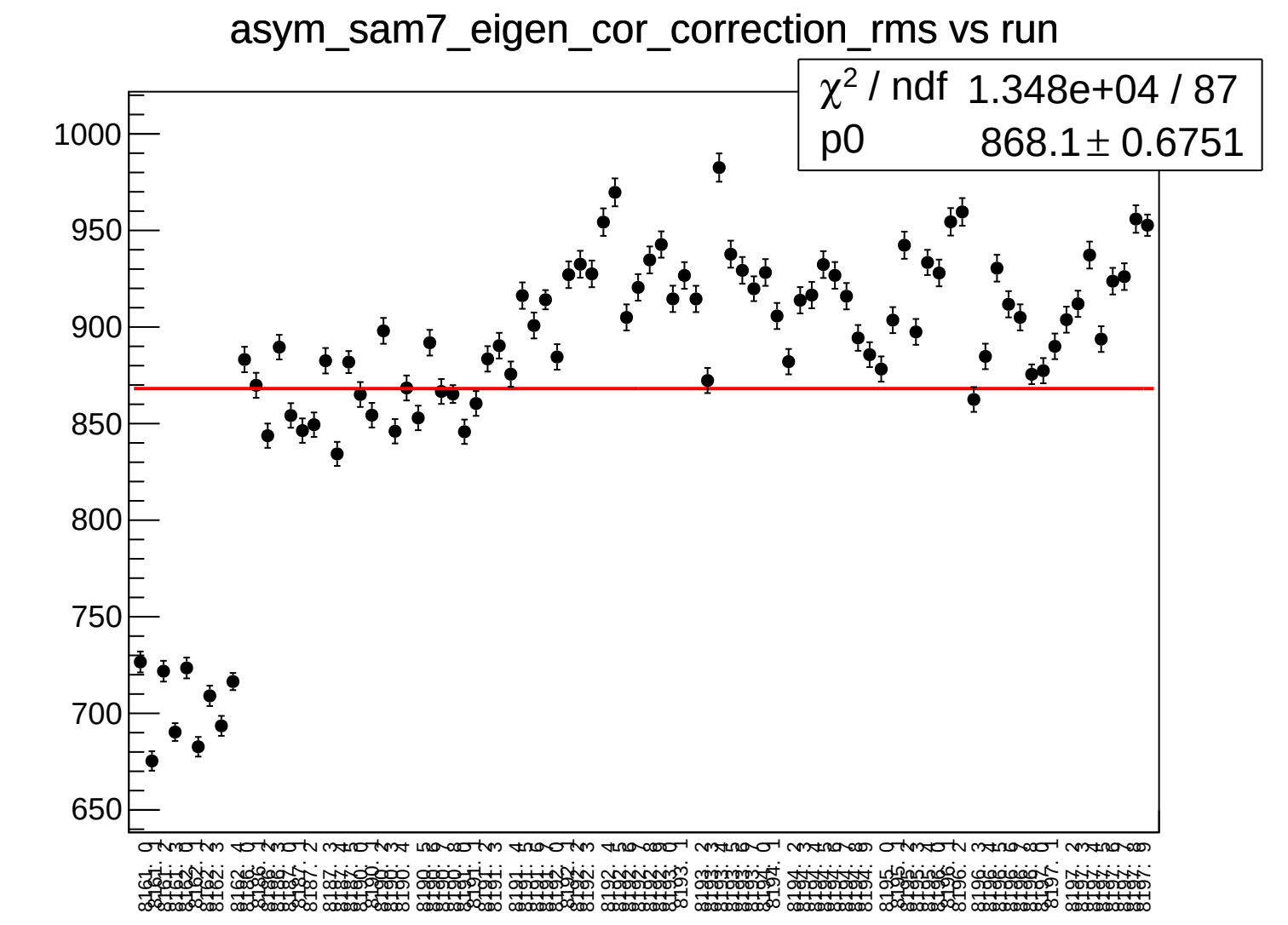

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.348e+04 / 87
p0 868.1 ± 0.6751
1000
950
900
850
800
750
700
650

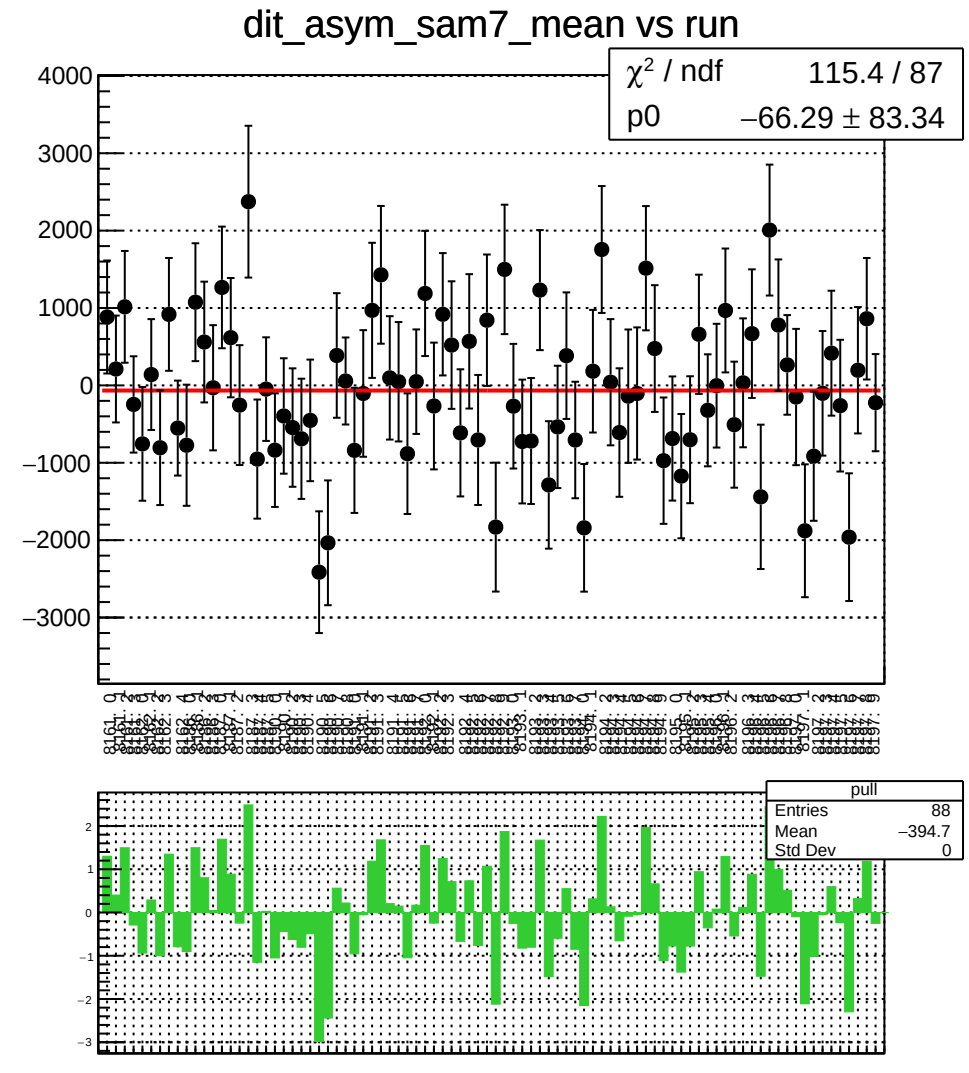

eigen_cor_asym_sam7_mean vs run
χ² / ndf 114.4 / 87
p0 −0.7902 ± 79.31
pull
Entries 88
Mean −293.5
Std Dev 0
pull1D
Entries 88
Mean 0.00626
Std Dev 1.14

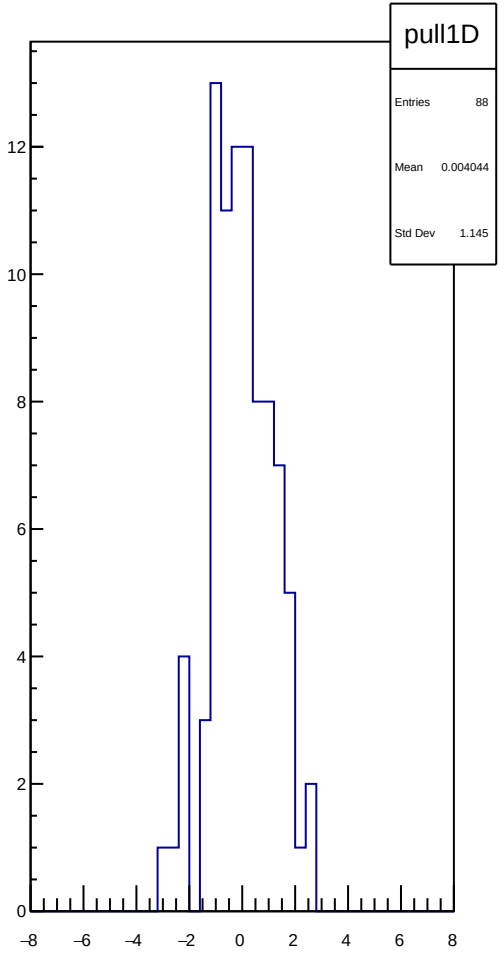

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 5014 / 87
p0 72.29 ± 0.05608
90
85
80
75
70
65
60

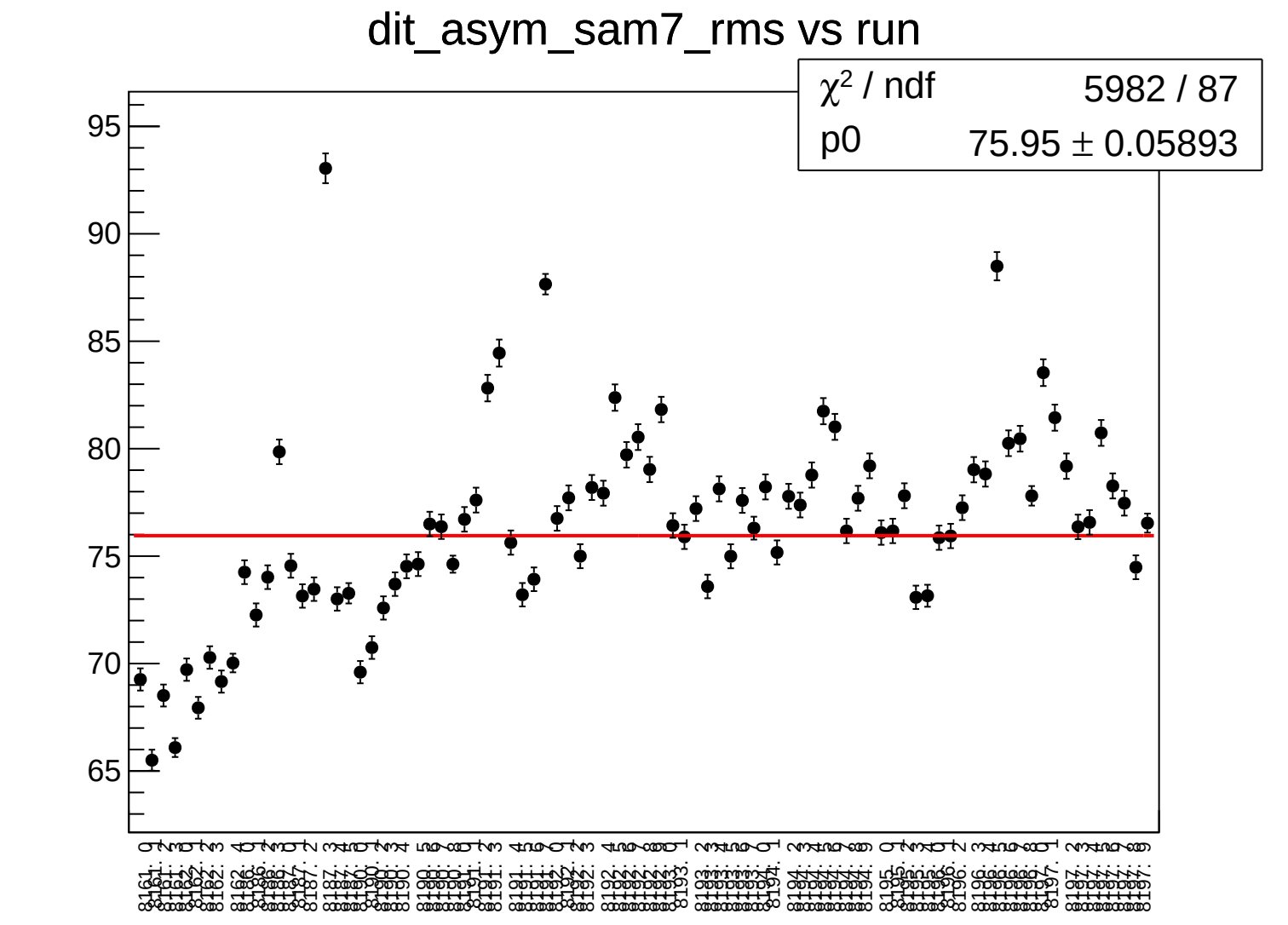

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 83.71 / 87
p0 −2474 ± 954.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 1492
Std Dev 0
3
2
1
0
−1
−2

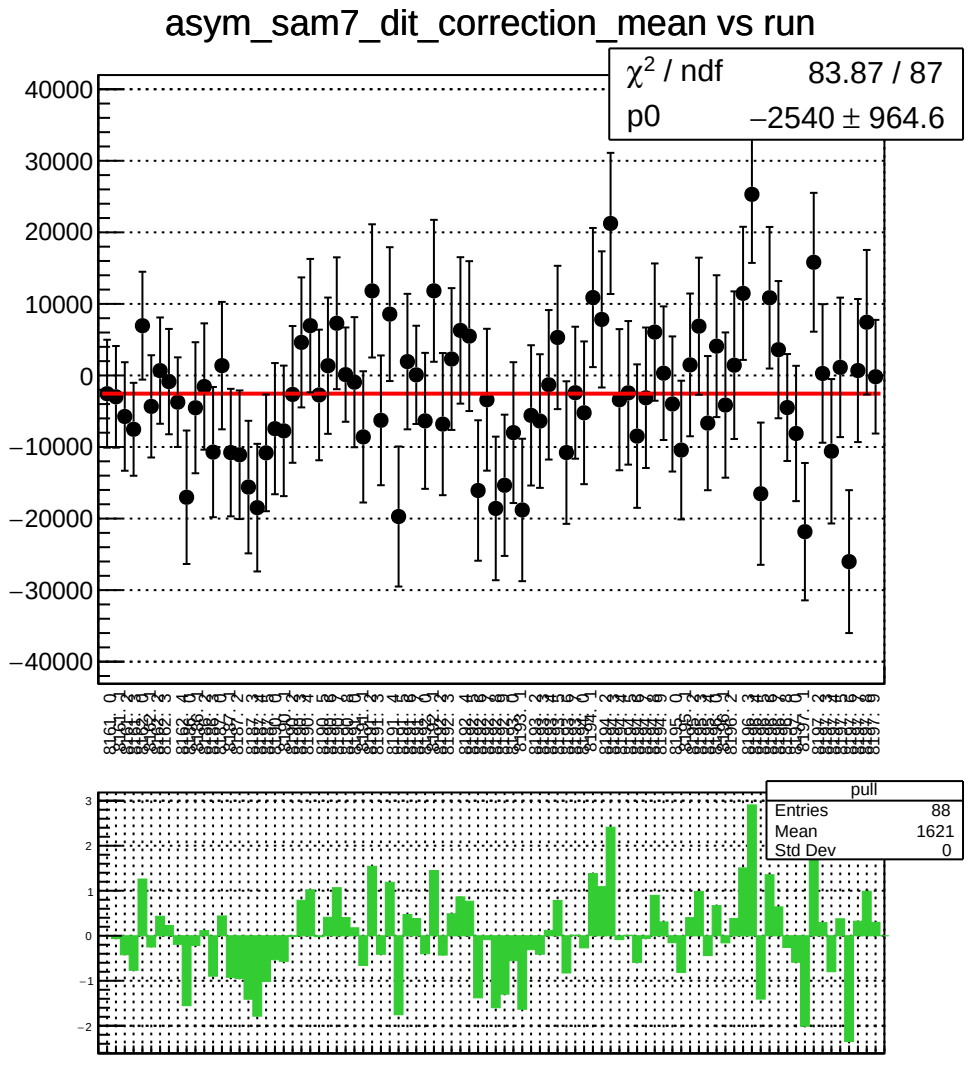

pull1D
Entries 88
Mean 0.002636
Std Dev 0.9753
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

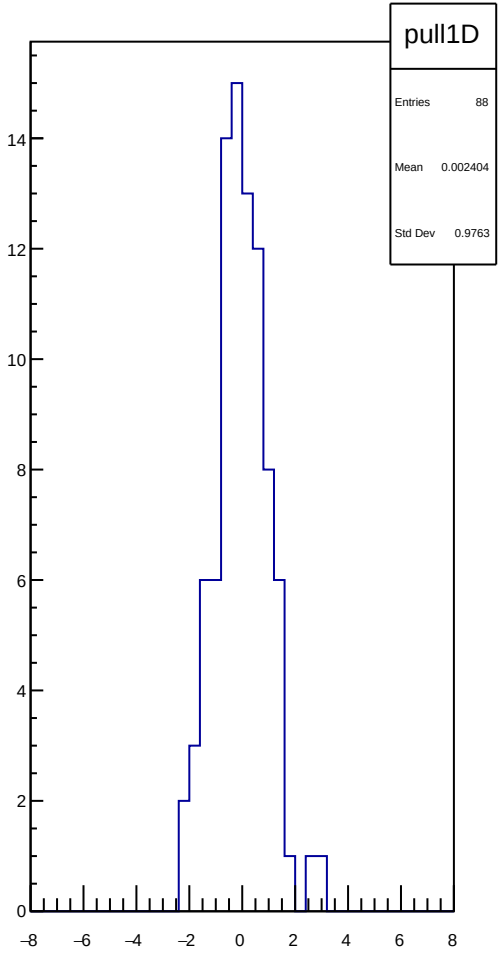

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.348e+04 / 87
p0 868.1 ± 0.6751
1000
950
900
850
800
750
700
650

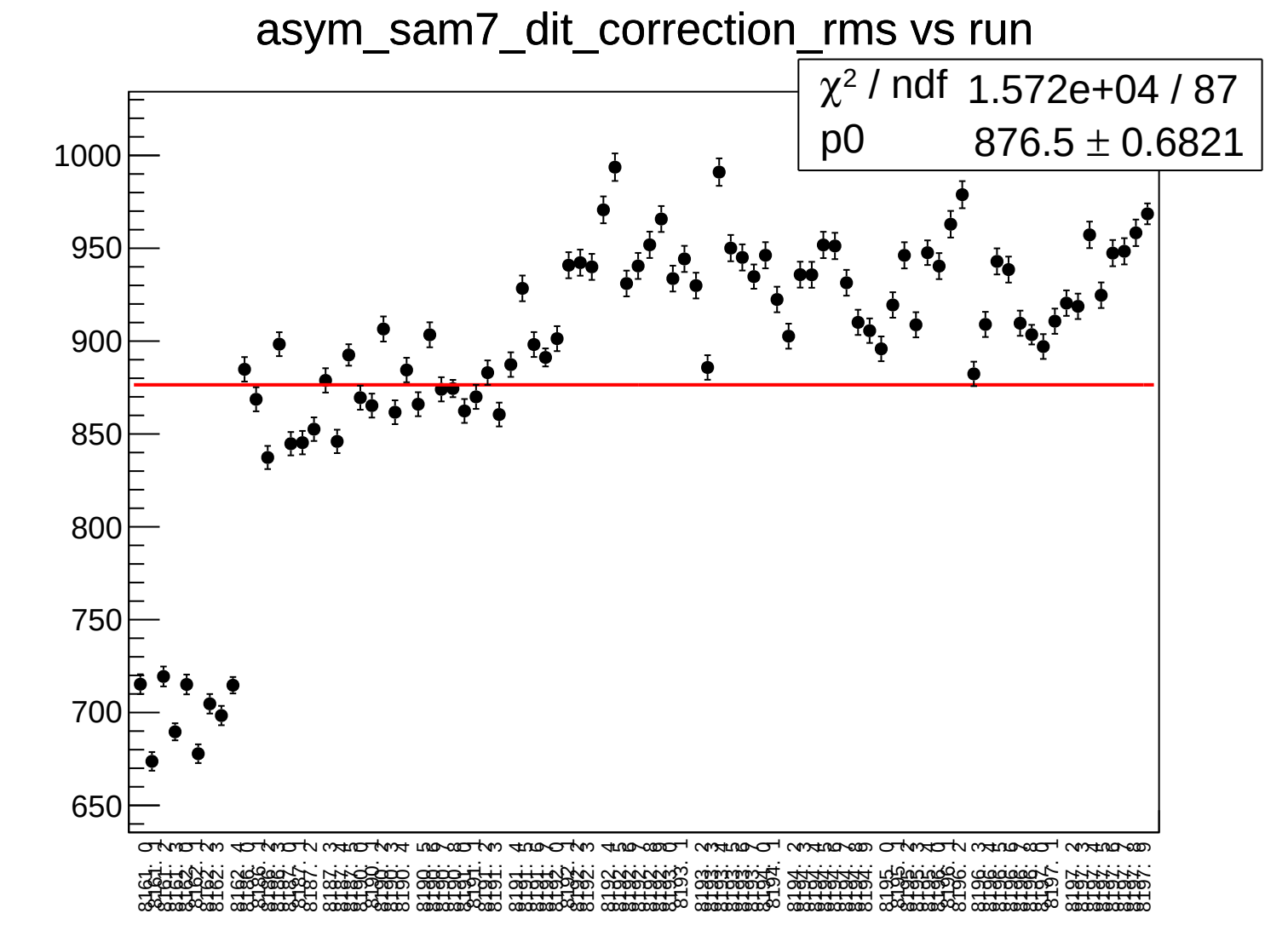

dit_asym_sam7_mean vs run
χ² / ndf 115.4 / 87
p0 −66.29 ± 83.34
pull
Entries 88
Mean −394.7
Std Dev 0

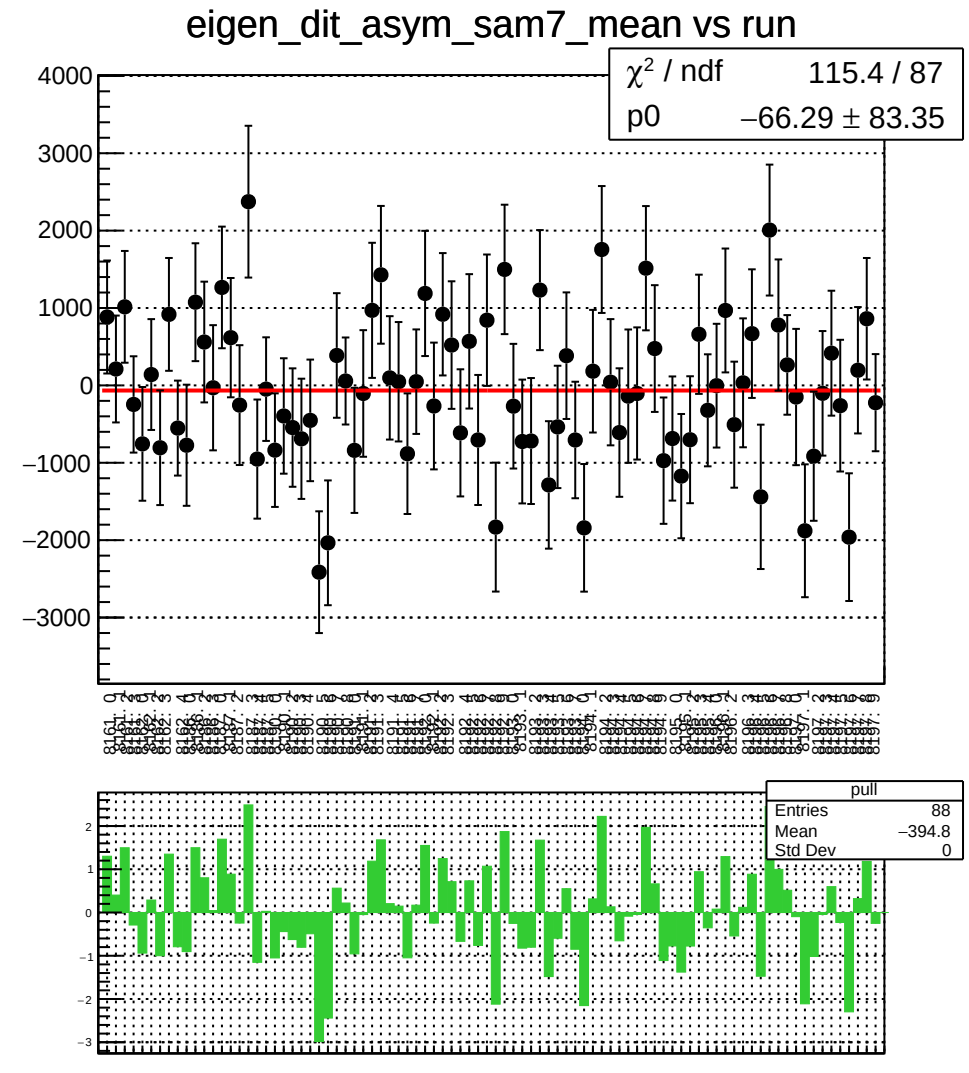

pull1D
Entries 88
Mean 0.004044
Std Dev 1.145

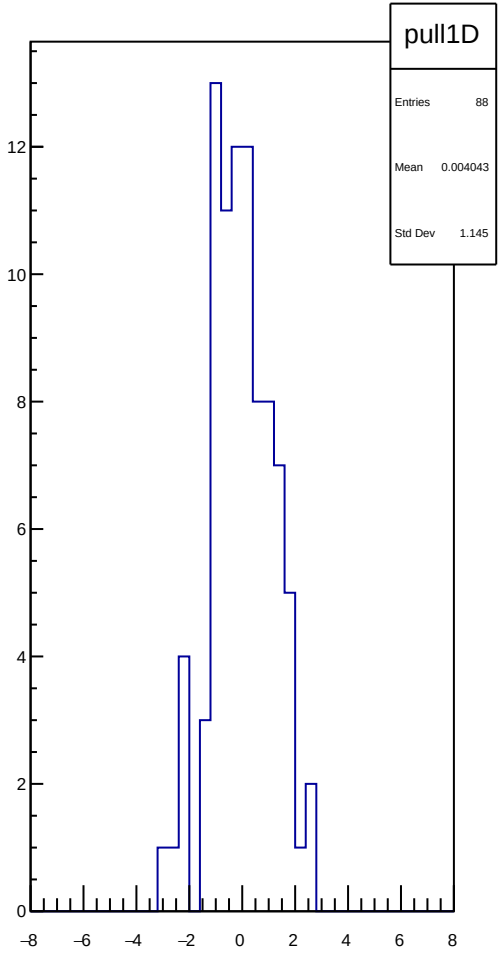

dit_asym_sam7_rms vs run
χ² / ndf 5982 / 87
p0 75.95 ± 0.05893
95
90
85
80
75
70
65

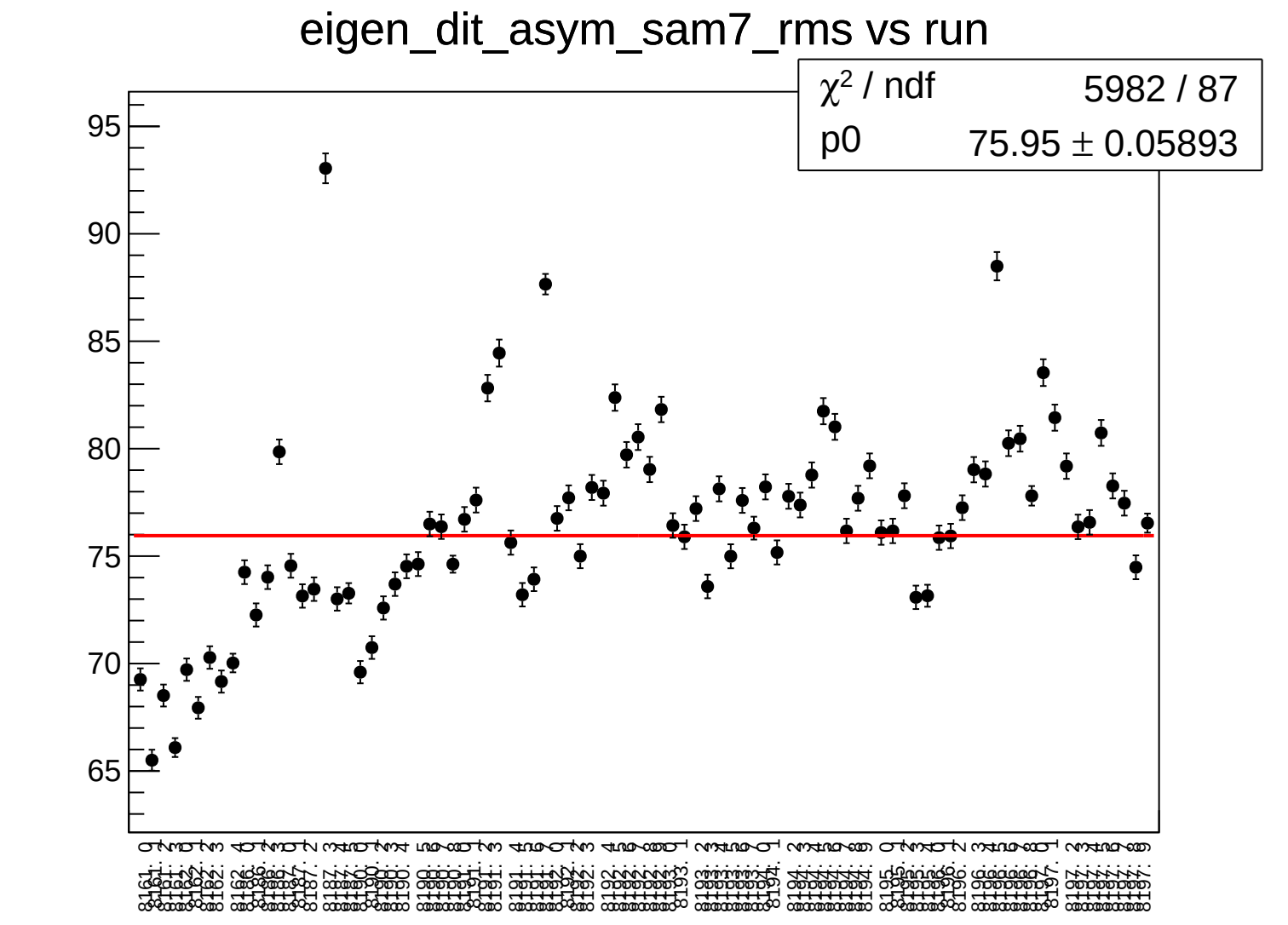

asym_sam7_dit_correction_mean vs run
χ² / ndf 83.87 / 87
p0 −2540 ± 964.6
pull
Entries 88
Mean 1621
Std Dev 0

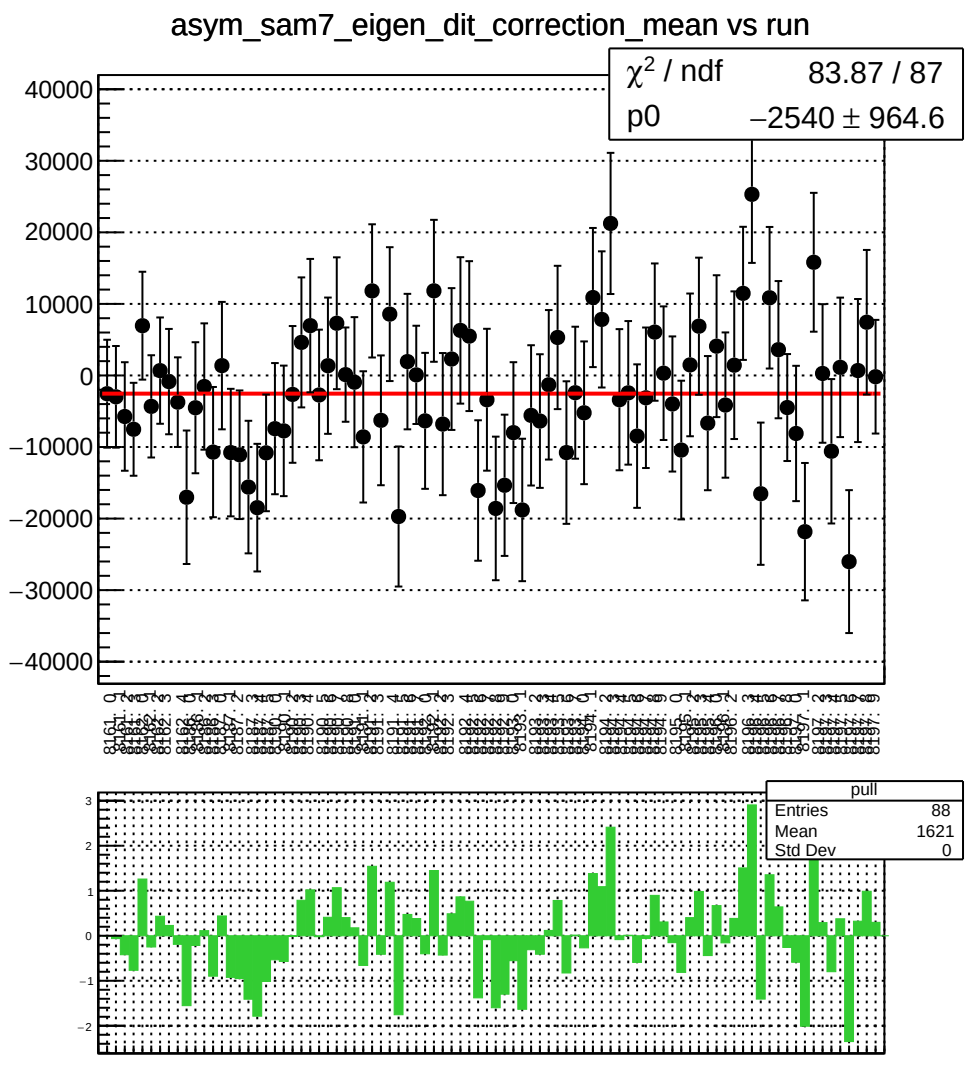

pull1D
Entries 88
Mean 0.002404
Std Dev 0.9763

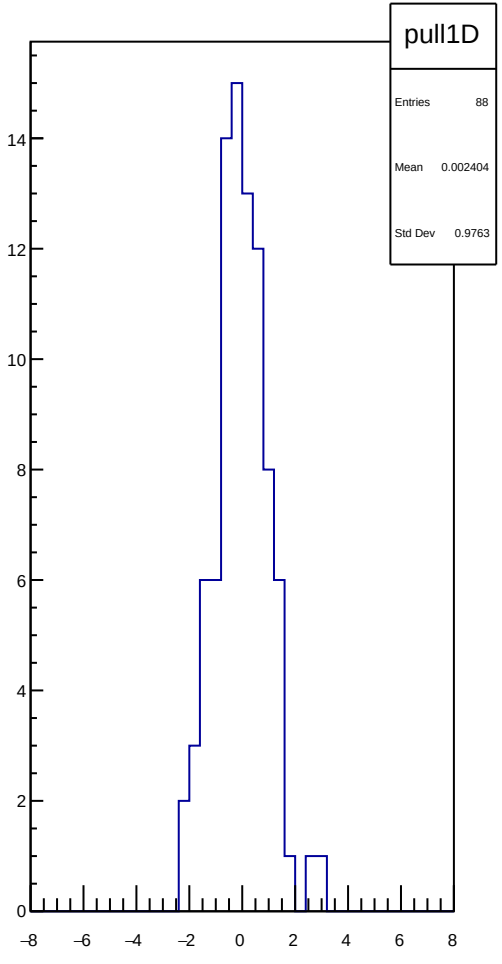

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 87
p0 876.5 ± 0.6821
1000
950
900
850
800
750
700
650

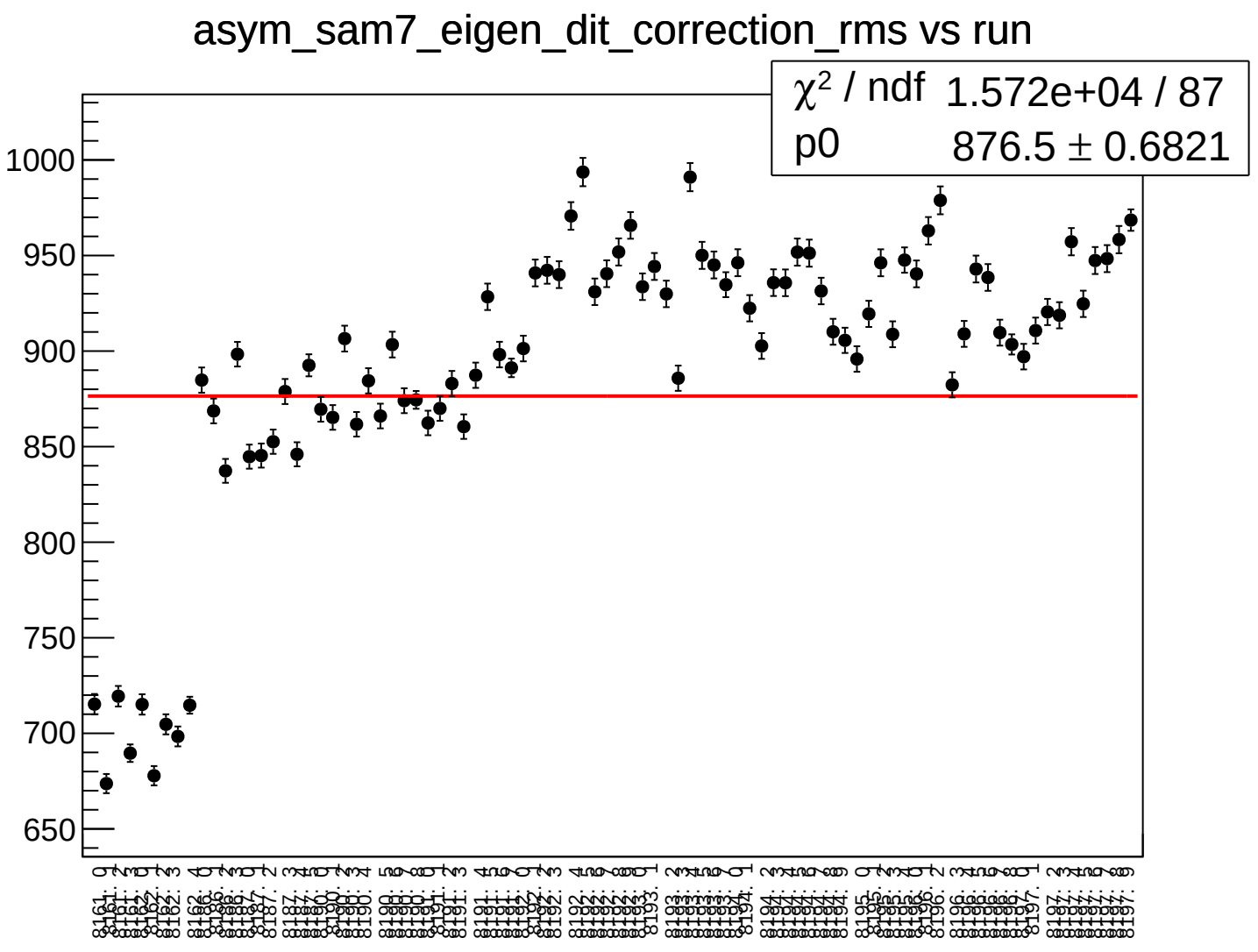

eigen_dit_asym_sam7_mean vs run
χ² / ndf 115.4 / 87
p0 −66.29 ± 83.35
pull
Entries 88
Mean −394.8
Std Dev 0

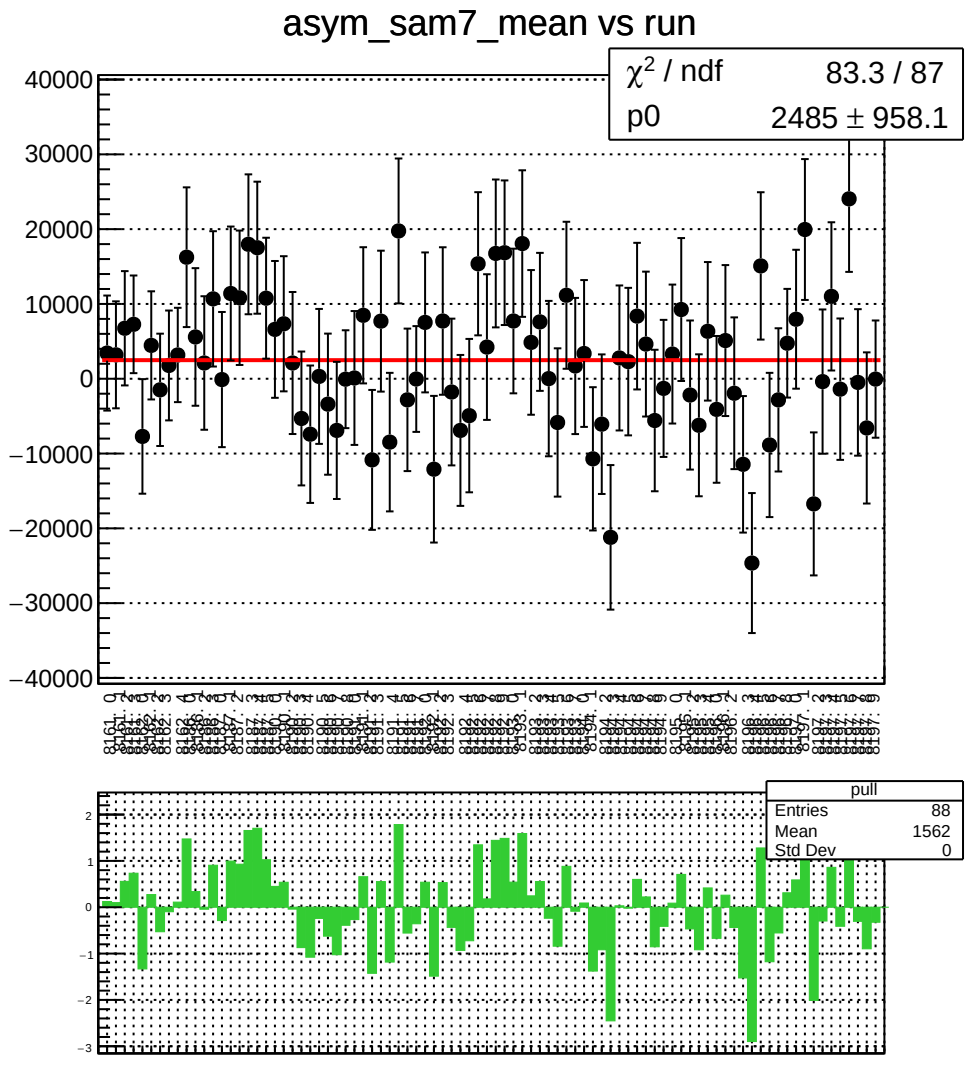

pull1D
Entries 88
Mean 0.004043
Std Dev 1.145

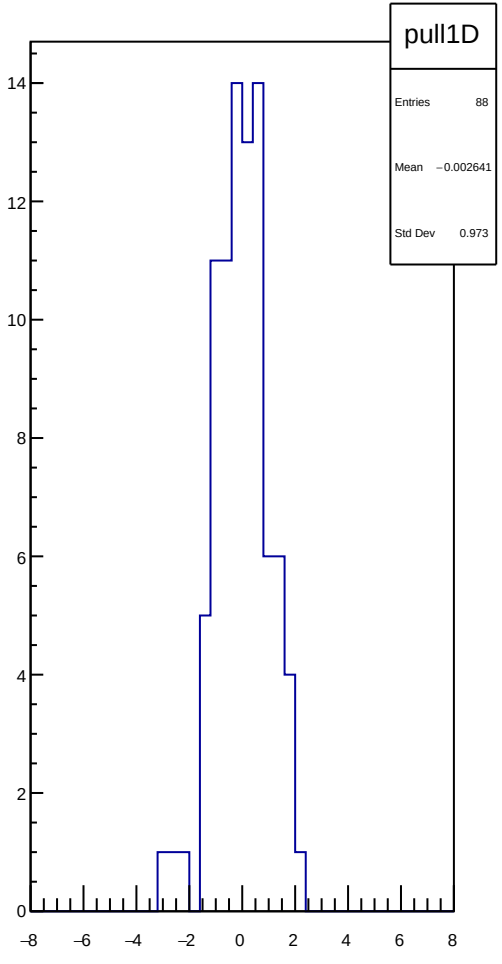

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 5982 / 87
p0 75.95 ± 0.05893
95
90
85
80
75
70
65

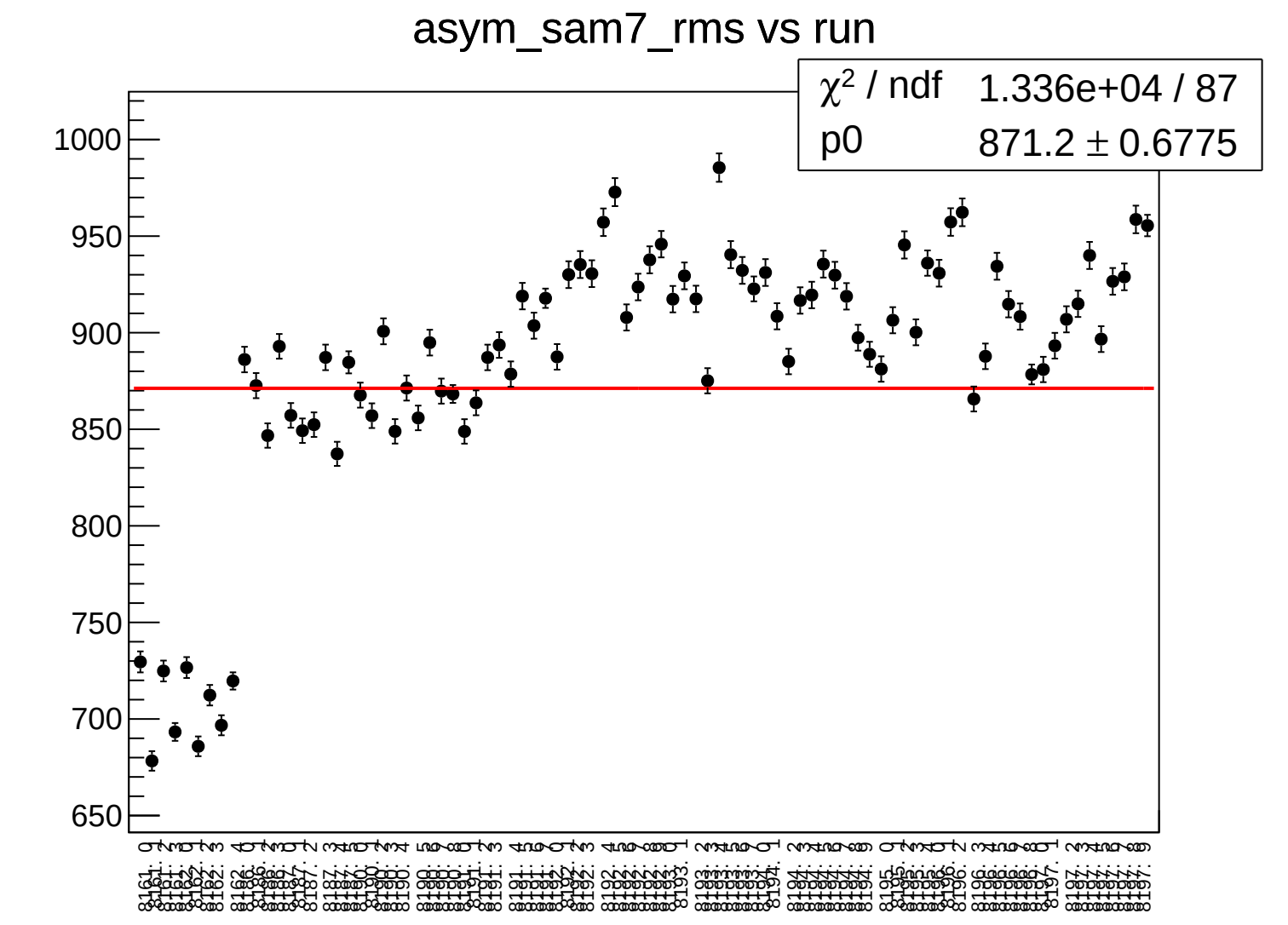

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 83.87 / 87
p0 −2540 ± 964.6
pull
Entries 88
Mean 1621
Std Dev 0

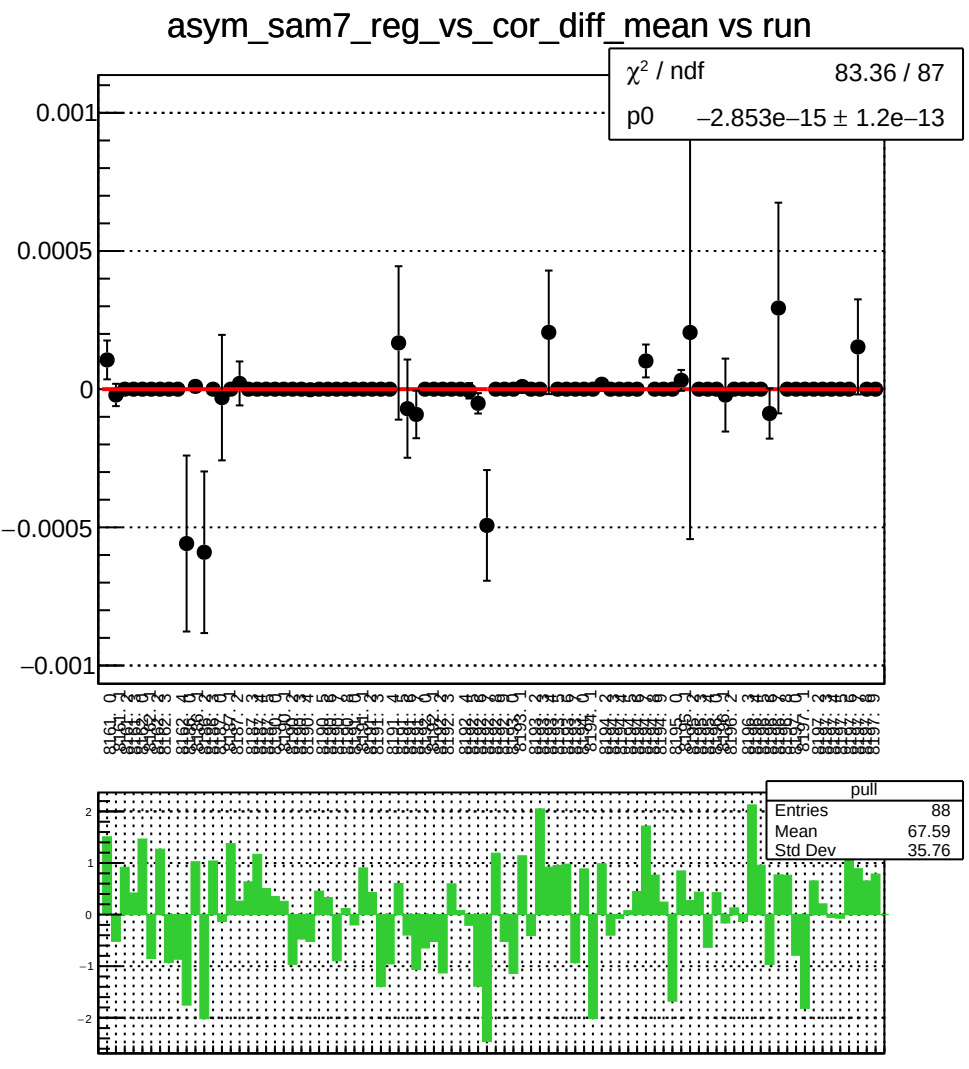

pull1D
Entries 88
Mean 0.002404
Std Dev 0.9763

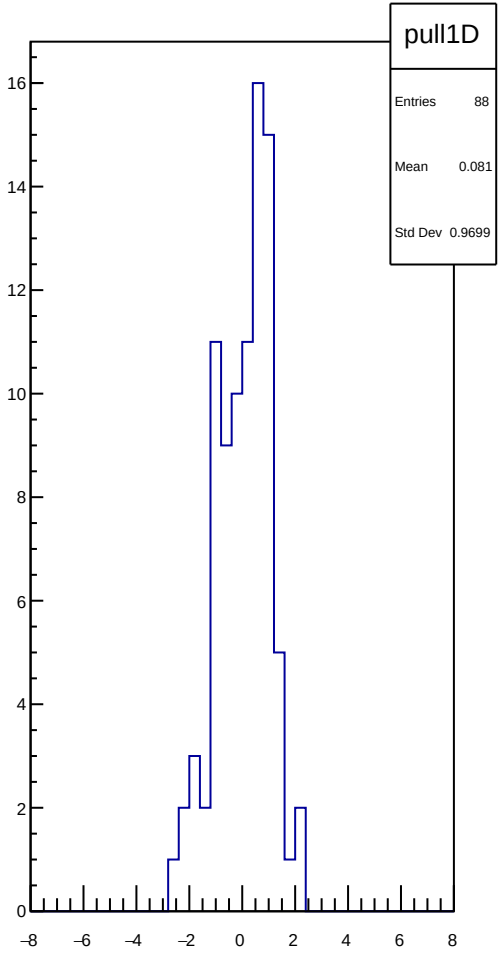

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 87
p0 876.5 ± 0.6821
1000
950
900
850
800
750
700
650

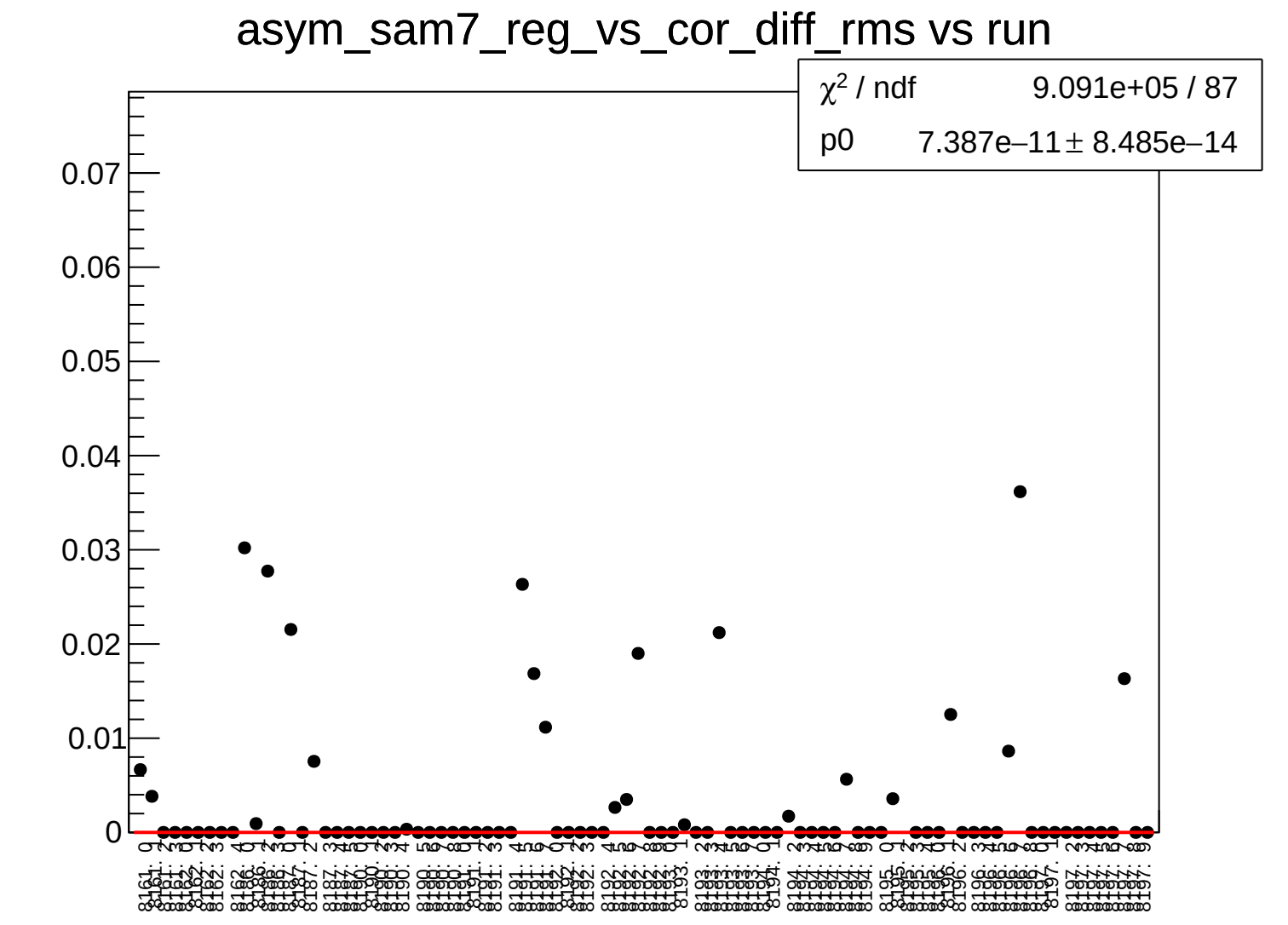

asym_sam7_mean vs run
χ² / ndf 83.3 / 87
p0 2485 ± 958.1
pull
Entries 88
Mean 1562
Std Dev 0

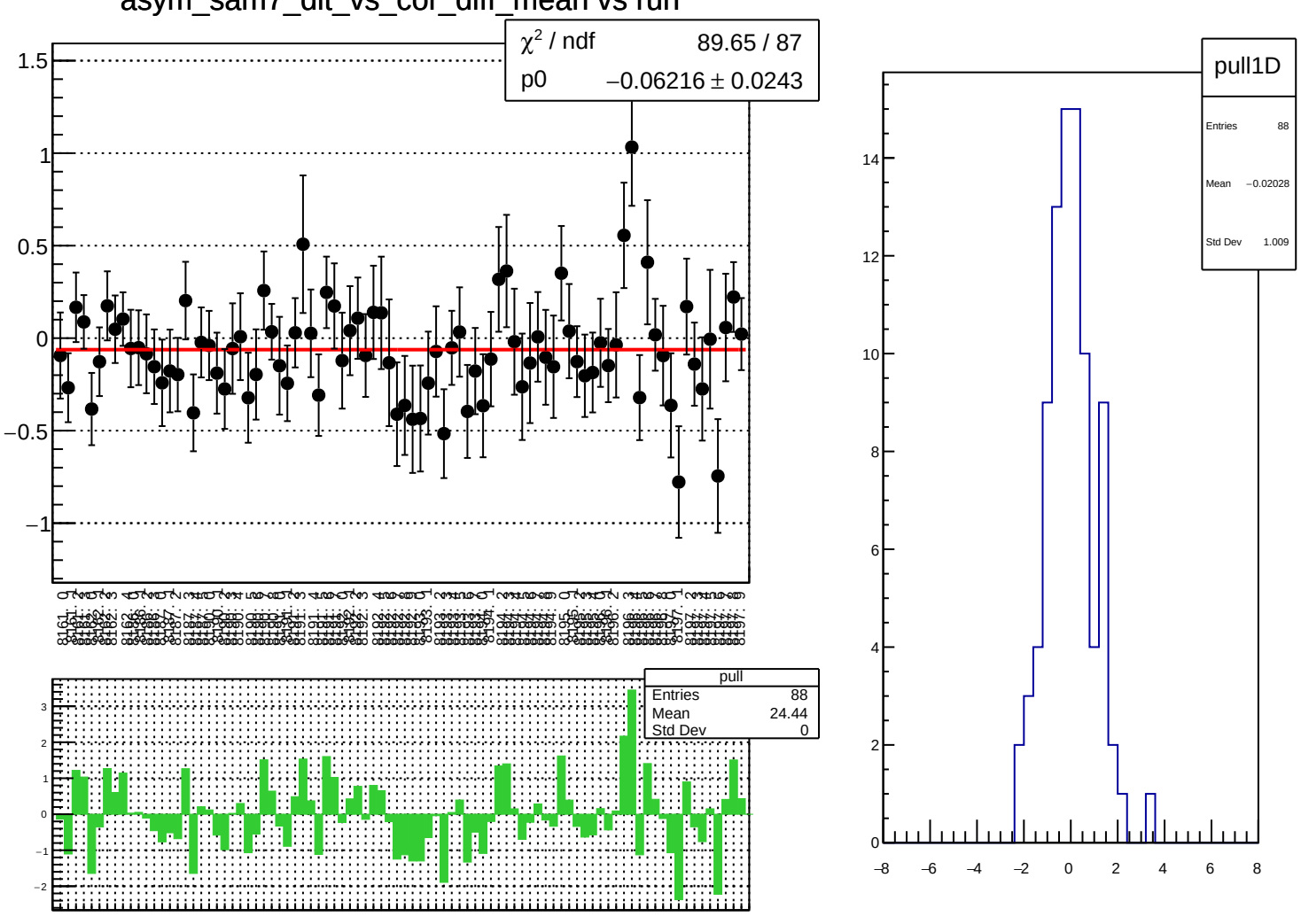

pull1D
Entries 88
Mean −0.002641
Std Dev 0.973

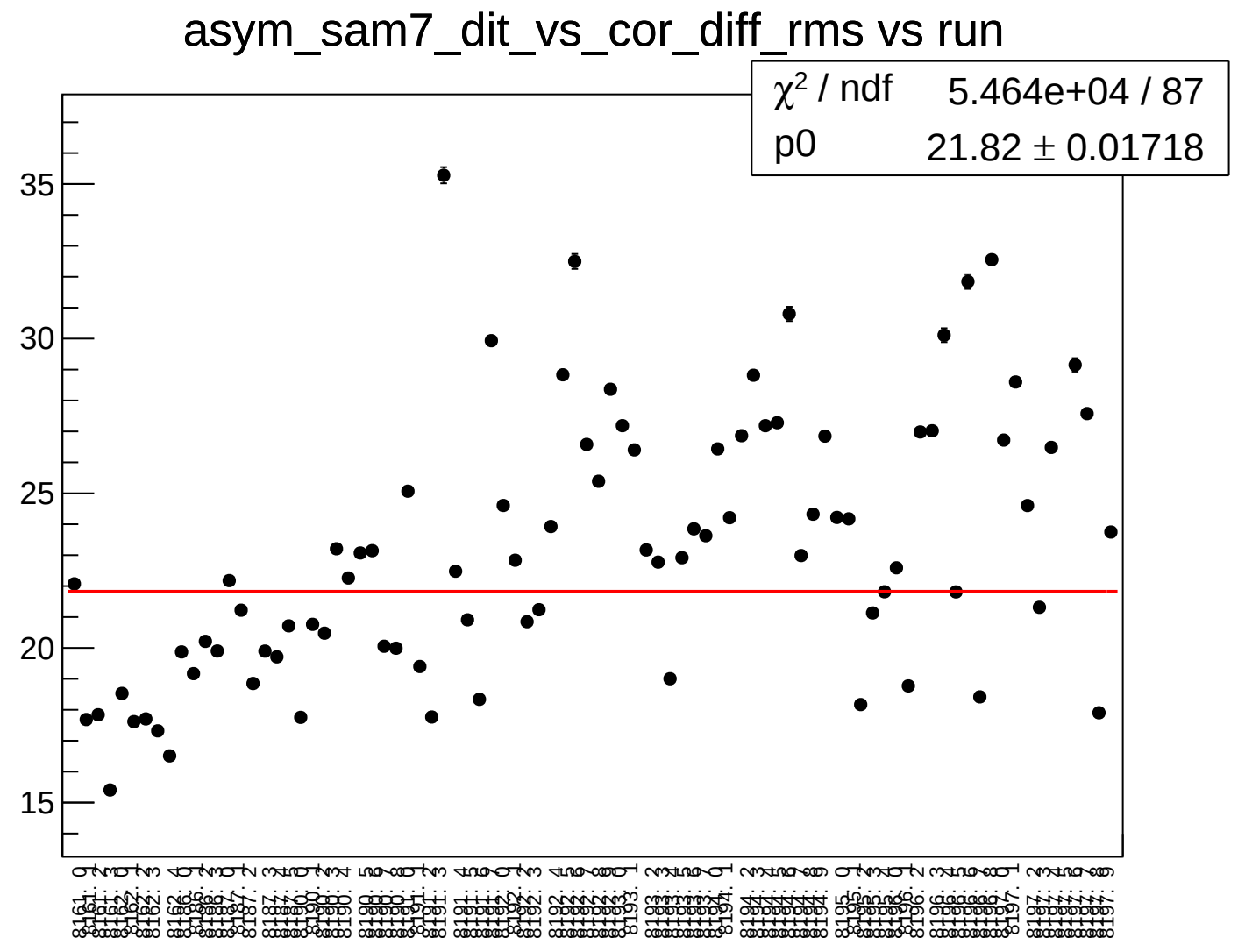

asym_sam7_rms vs run
χ² / ndf 1.336e+04 / 87
p0 871.2 ± 0.6775
1000
950
900
850
800
750
700
650

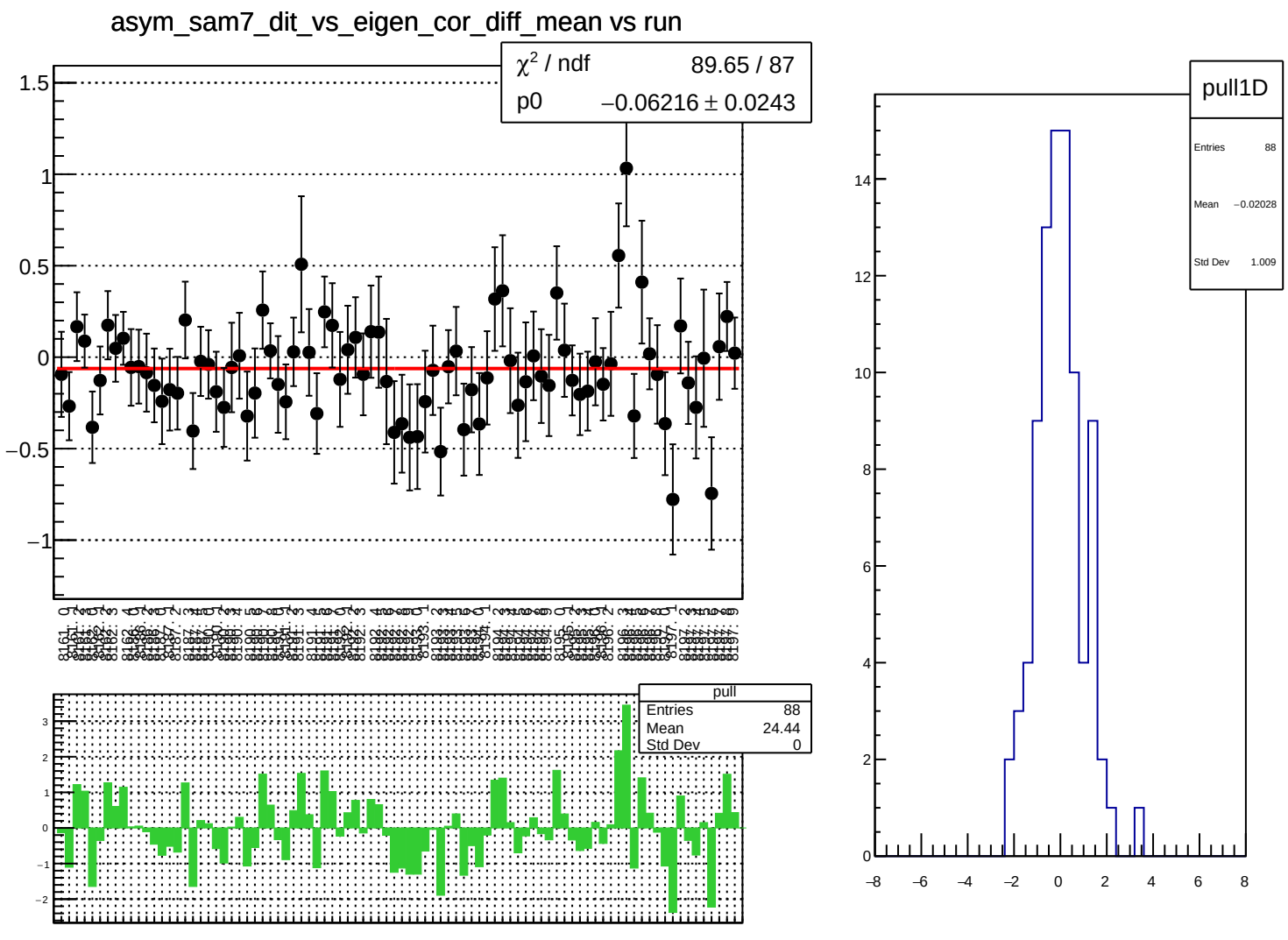

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 83.36 / 87
p0 −2.853e−15 ± 1.2e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 67.59
Std Dev 35.76
2
1
0
−1
−2

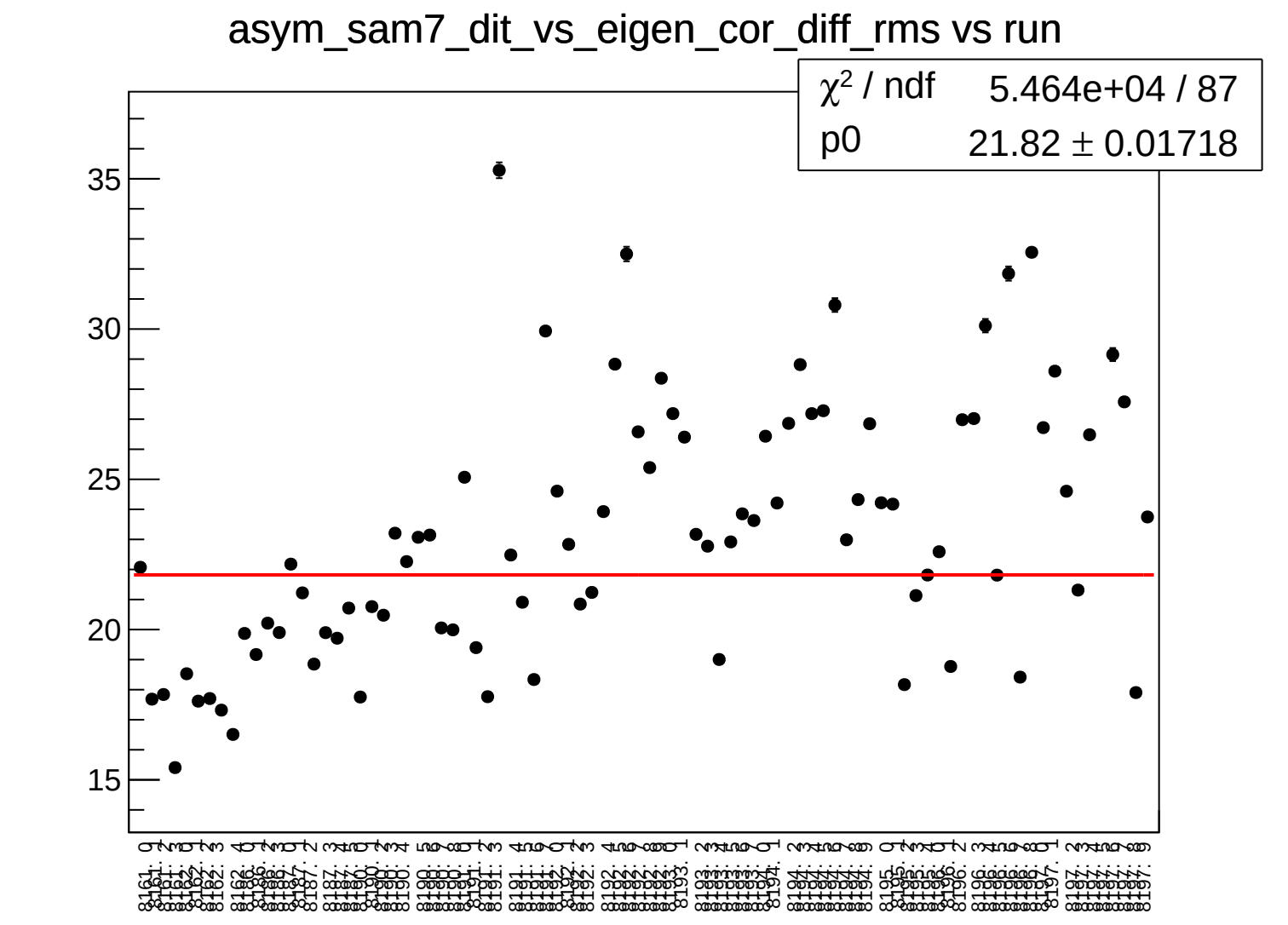

pull1D
Entries 88
Mean 0.081
Std Dev 0.9699
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

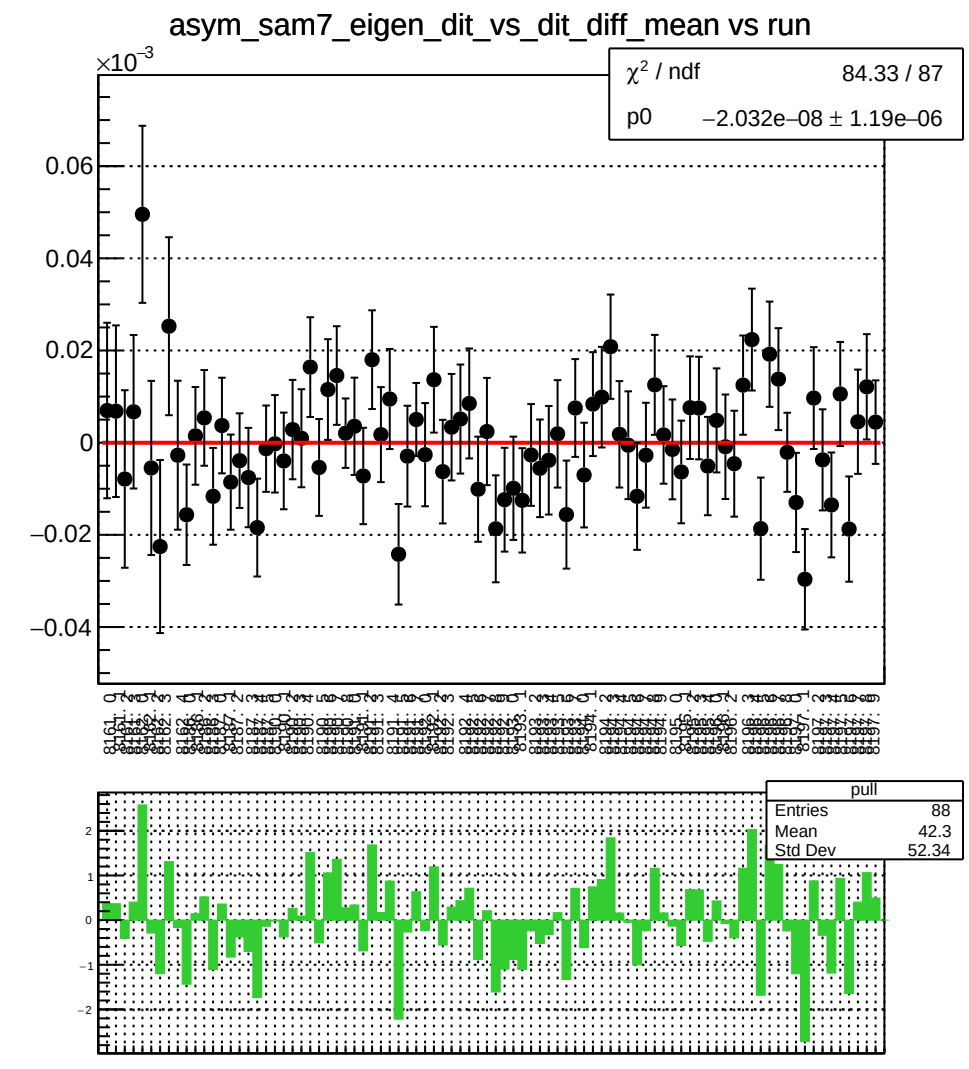

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 9.091e+05 / 87
p0 7.387e−11 ± 8.485e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

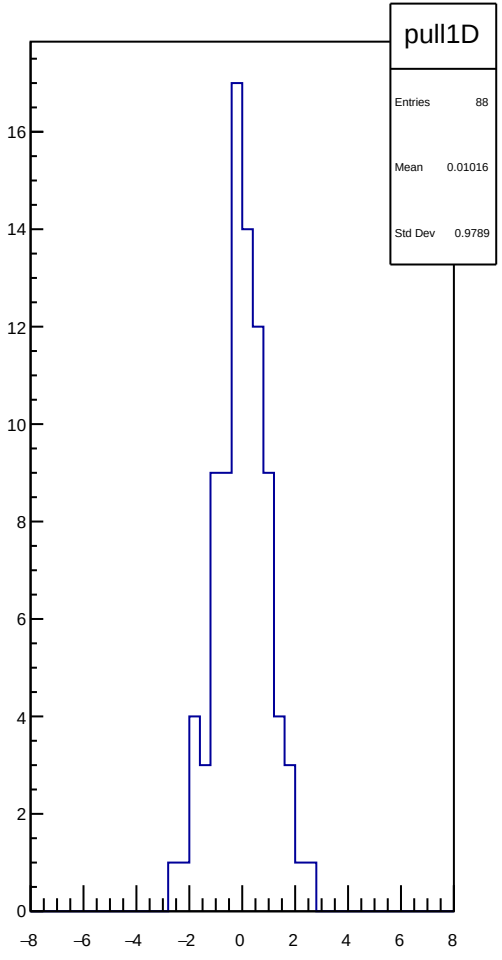

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 89.65 / 87
p0 −0.06216 ± 0.0243
pull
Entries 88
Mean 24.44
Std Dev 0
pull1D
Entries 88
Mean −0.02028
Std Dev 1.009

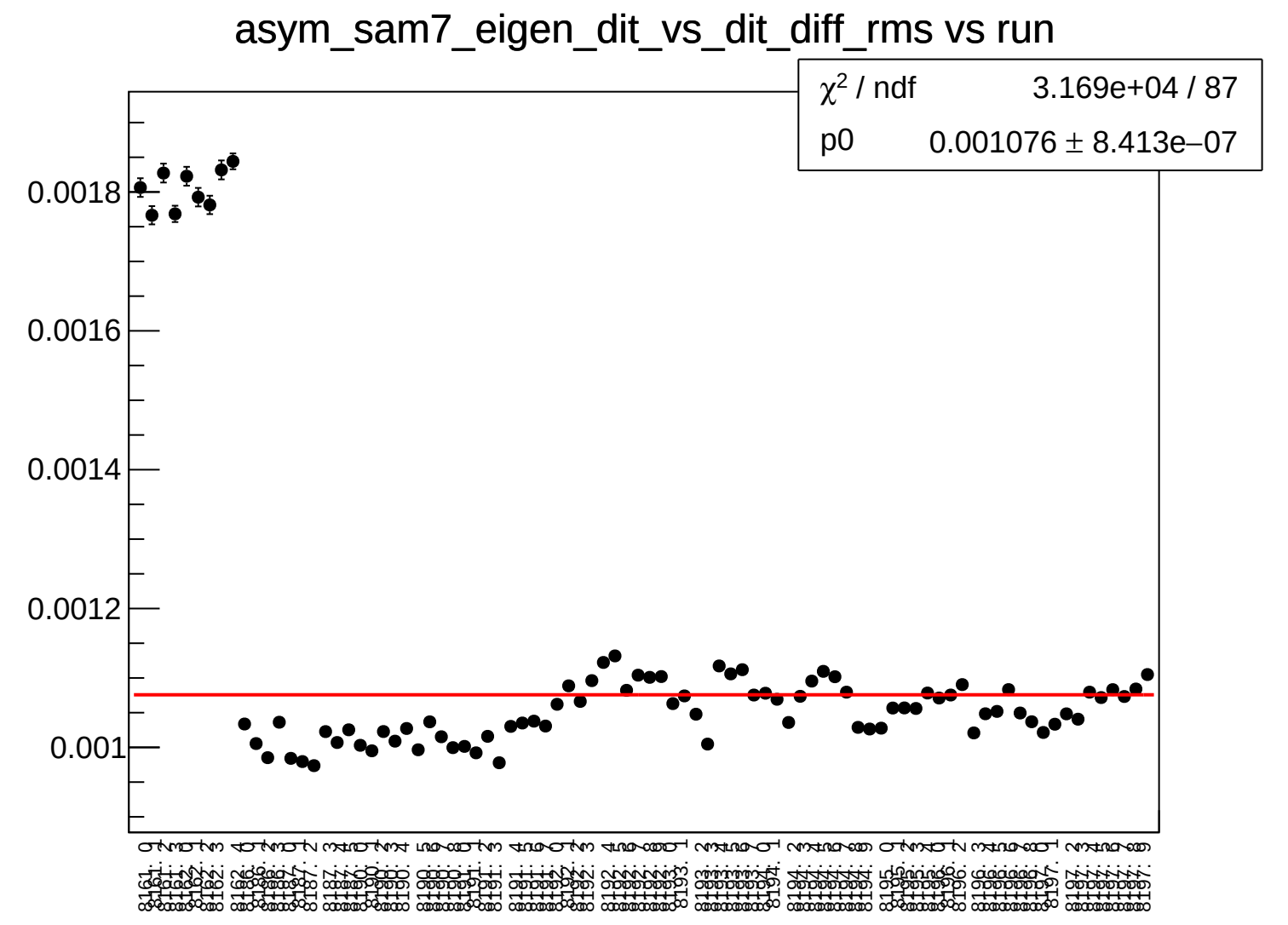

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 5.464e+04 / 87
p0 21.82 ± 0.01718
35
30
25
20
15

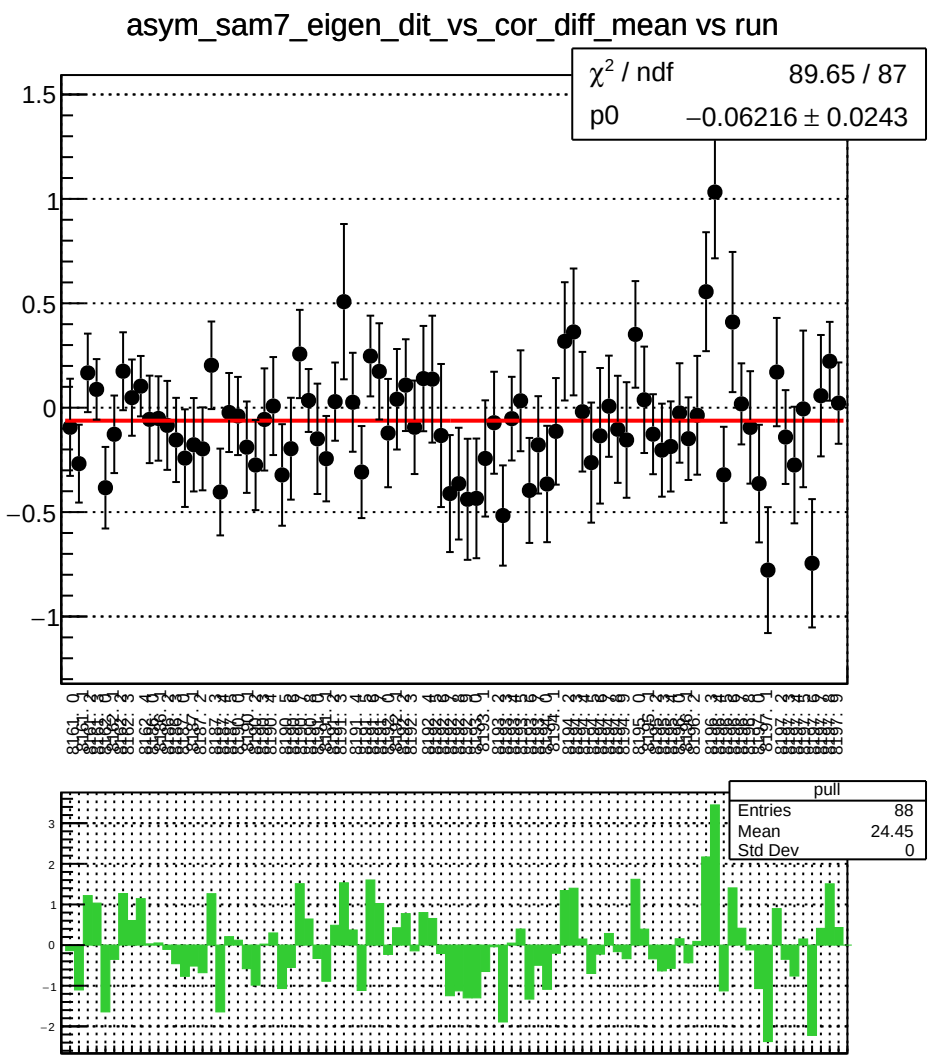

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.65 / 87
p0 −0.06216 ± 0.0243
pull
Entries 88
Mean 24.44
Std Dev 0
pull1D
Entries 88
Mean −0.02028
Std Dev 1.009

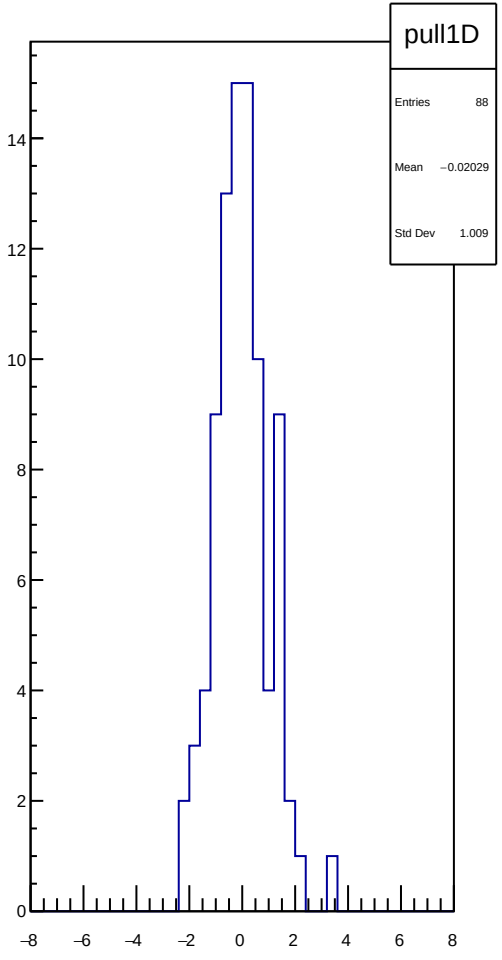

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.464e+04 / 87
p0 21.82 ± 0.01718
35
30
25
20
15

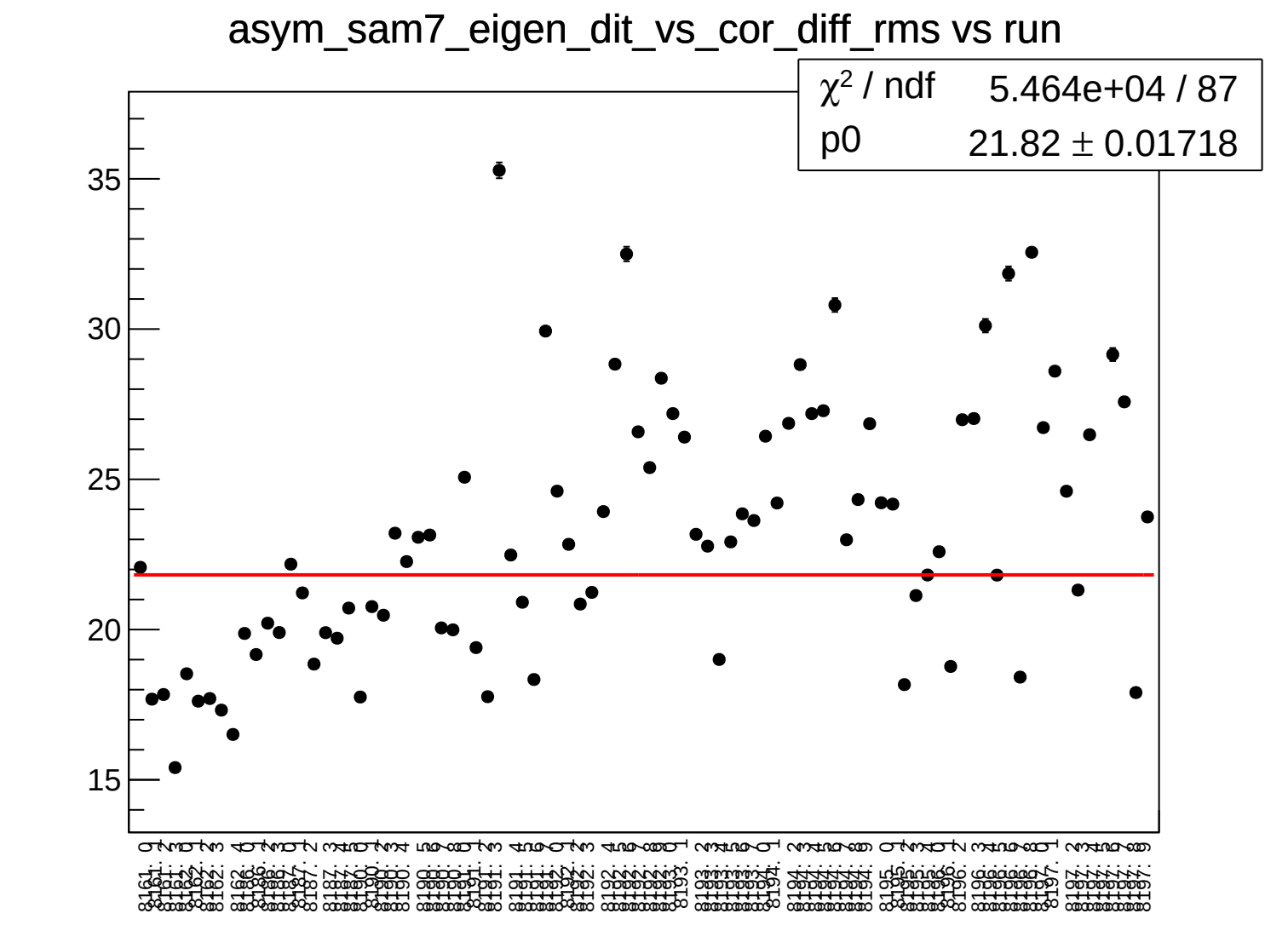

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.33 / 87
p0 −2.032e−08 ± 1.19e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 42.3
Std Dev 52.34
2
1
0
−1
−2

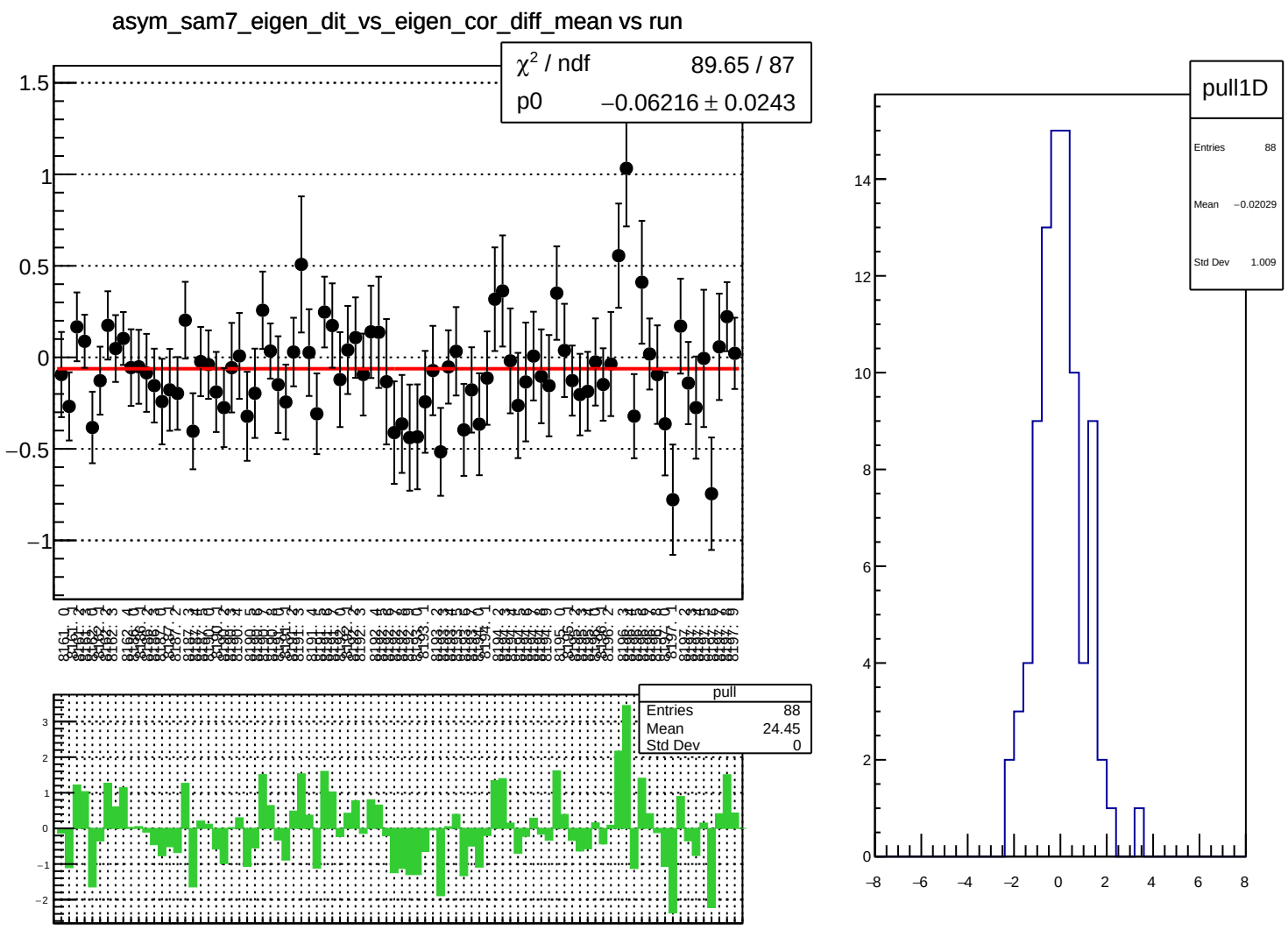

pull1D
Entries 88
Mean 0.01016
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

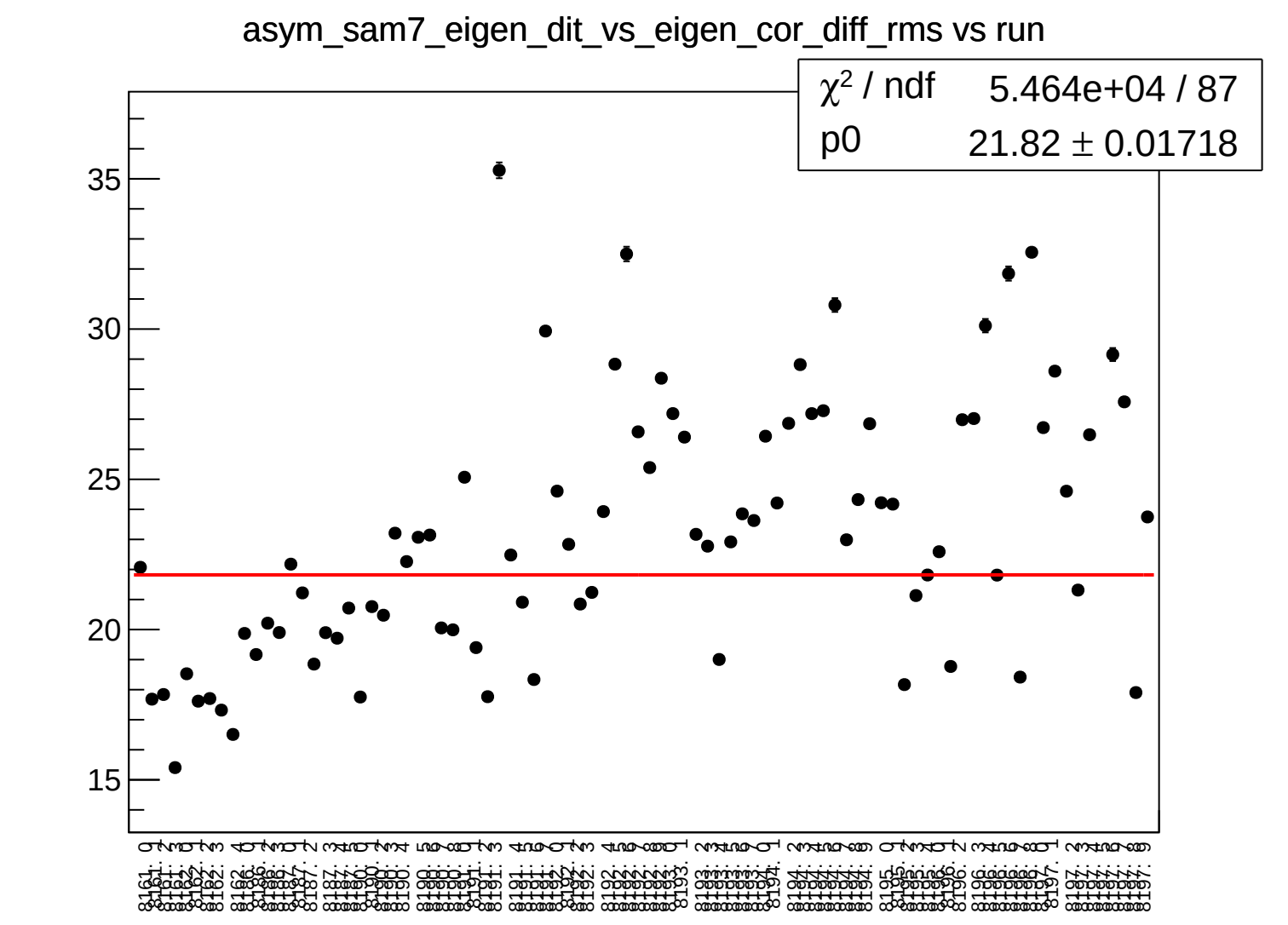

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.169e+04 / 87
p0 0.001076 ± 8.413e−07
0.0018
0.0016
0.0014
0.0012
0.001

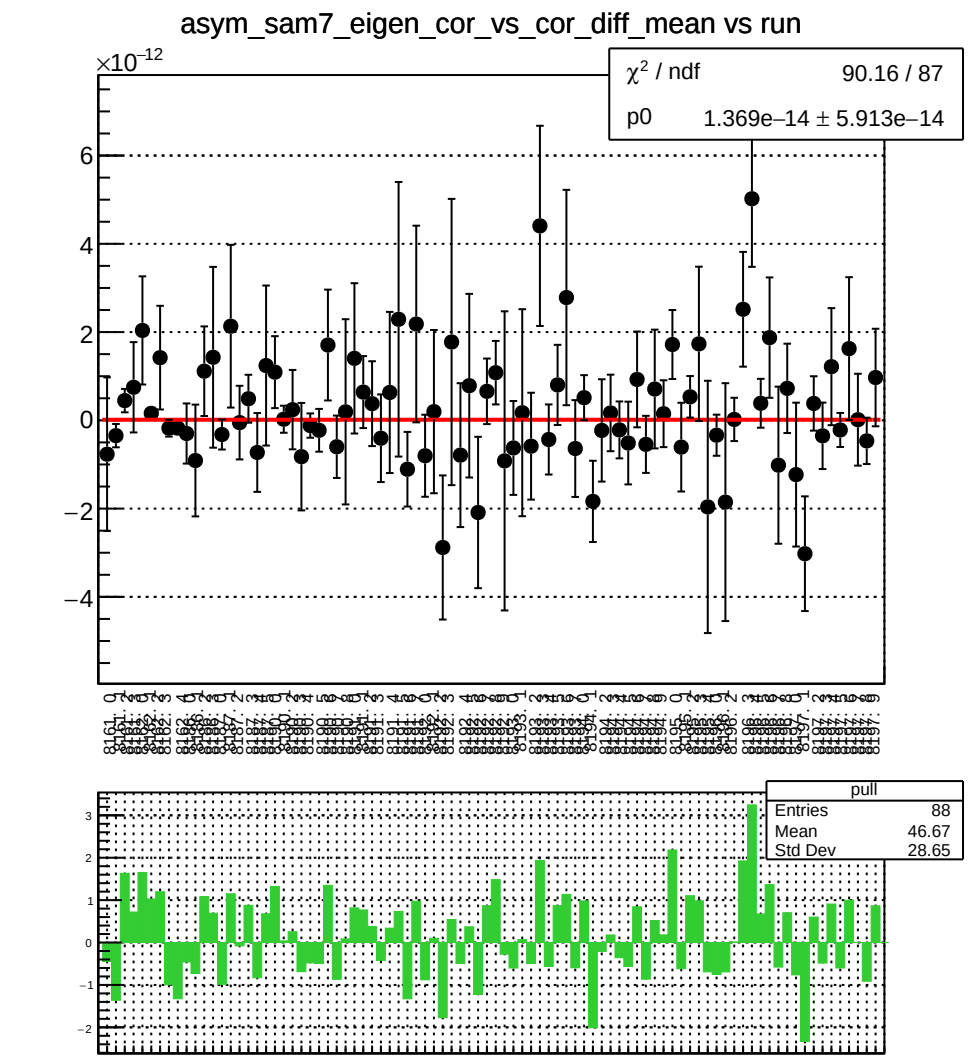

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.65 / 87
p0 −0.06216 ± 0.0243
pull
Entries 88
Mean 24.45
Std Dev 0

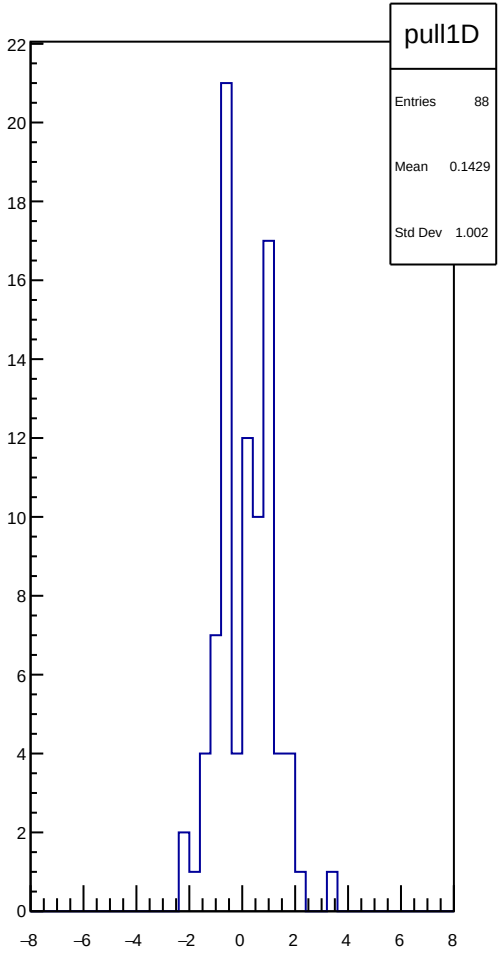

pull1D
Entries 88
Mean −0.02029
Std Dev 1.009

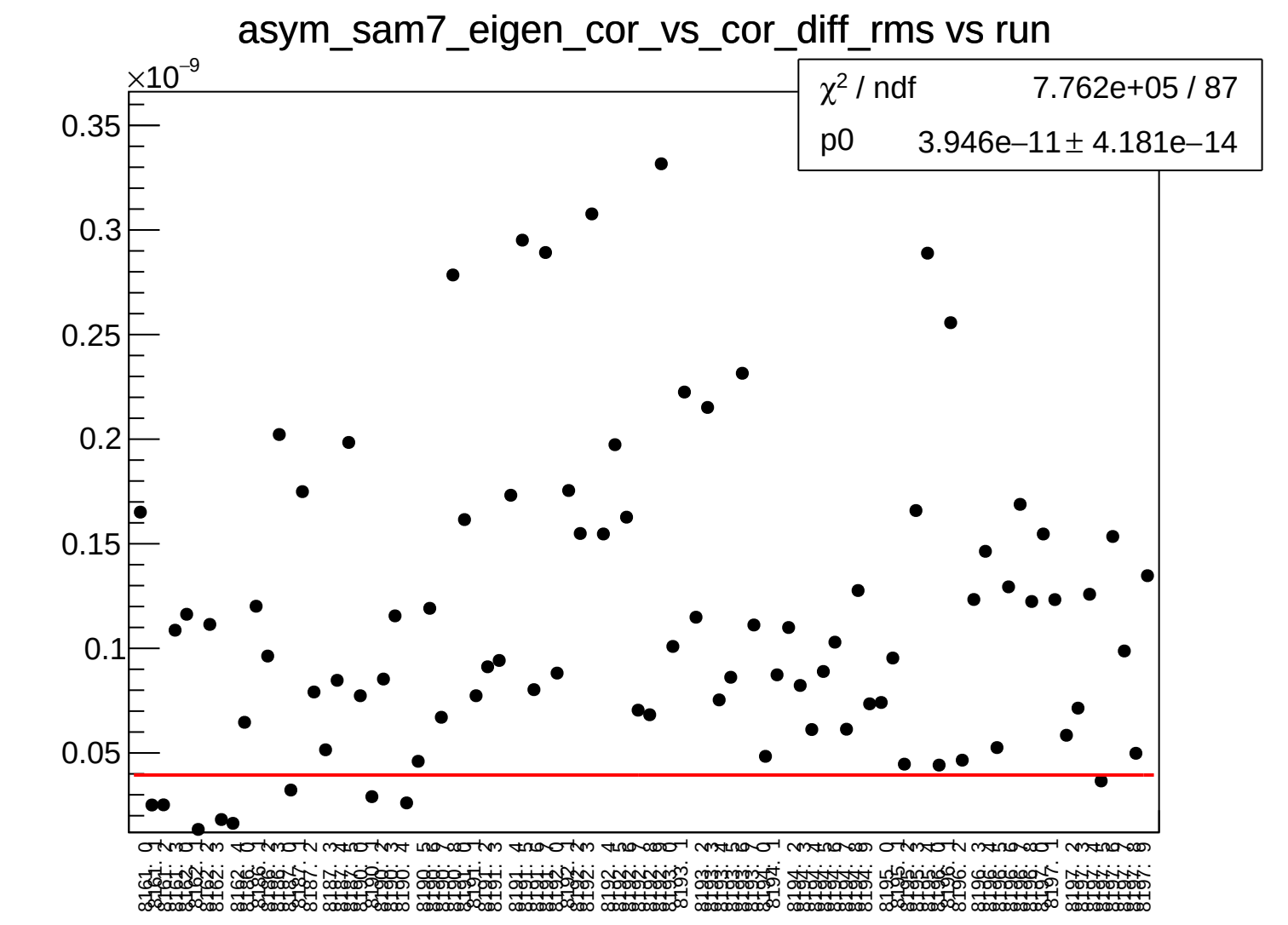

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.464e+04 / 87
p0 21.82 ± 0.01718
35
30
25
20
15

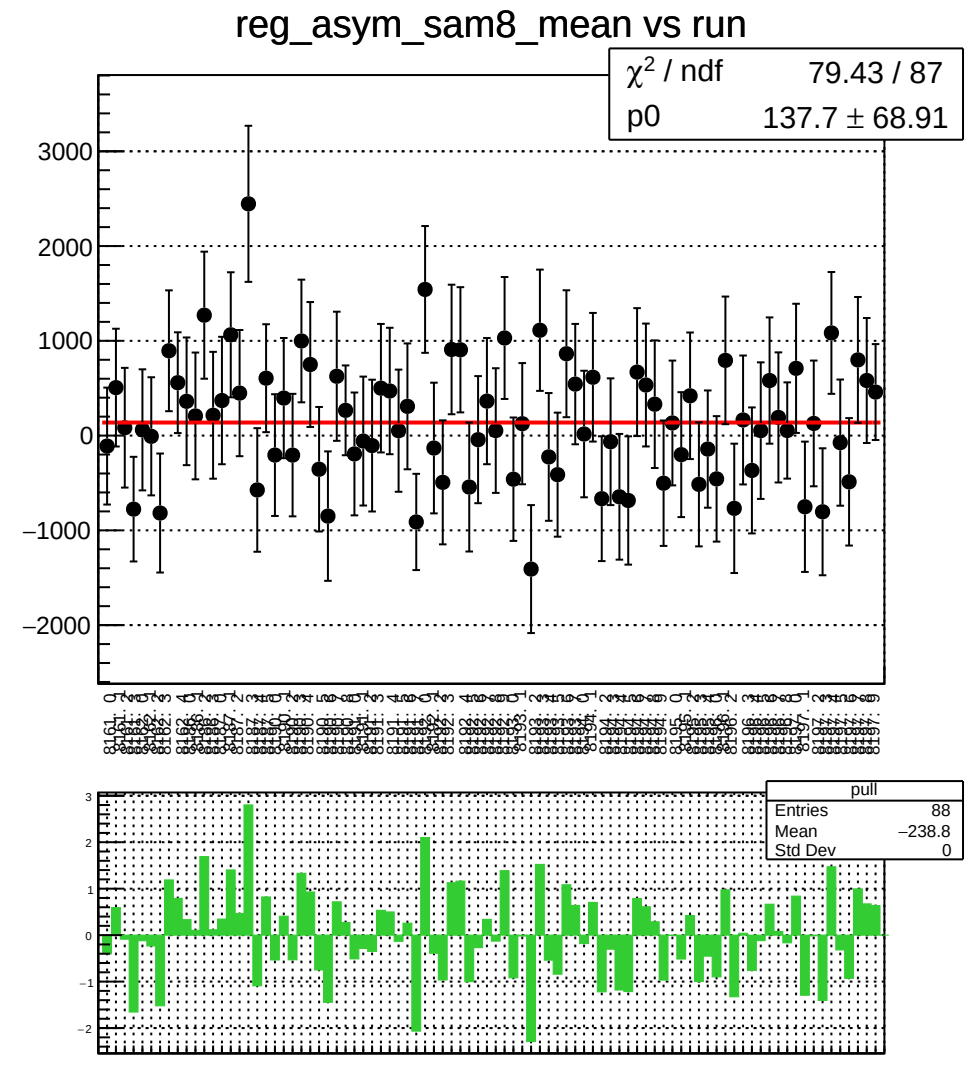

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.65 / 87
p0 −0.06216 ± 0.0243
pull
Entries 88
Mean 24.45
Std Dev 0
pull1D
Entries 88
Mean −0.02029
Std Dev 1.009

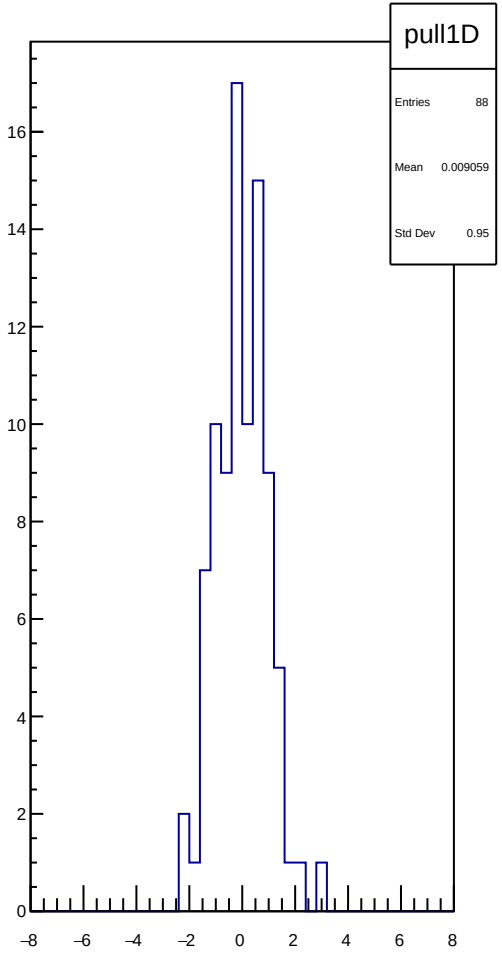

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.464e+04 / 87
p0 21.82 ± 0.01718
35
30
25
20
15

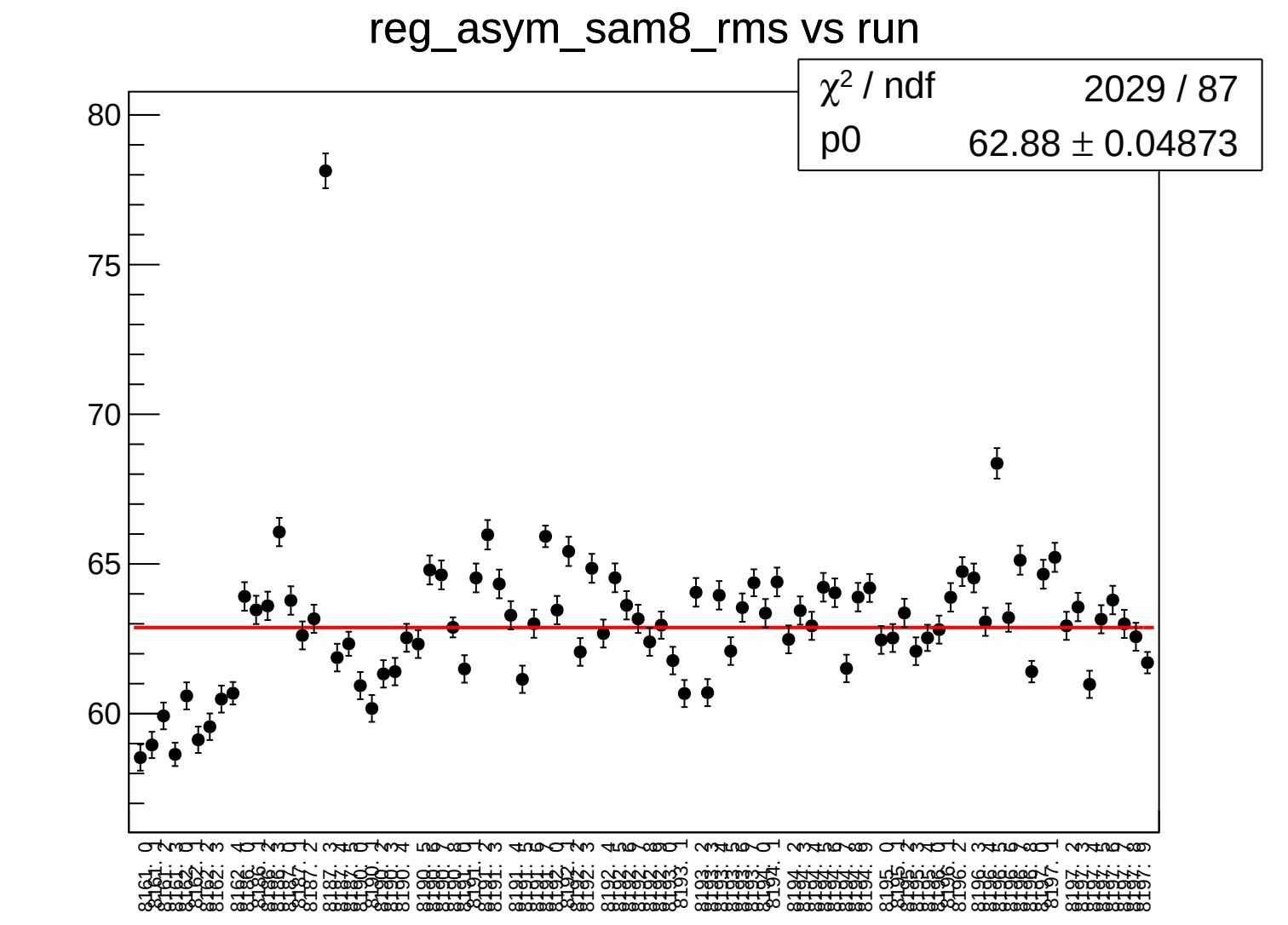

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.16 / 87
p0 1.369e−14 ± 5.913e−14
pull
Entries 88
Mean 46.67
Std Dev 28.65

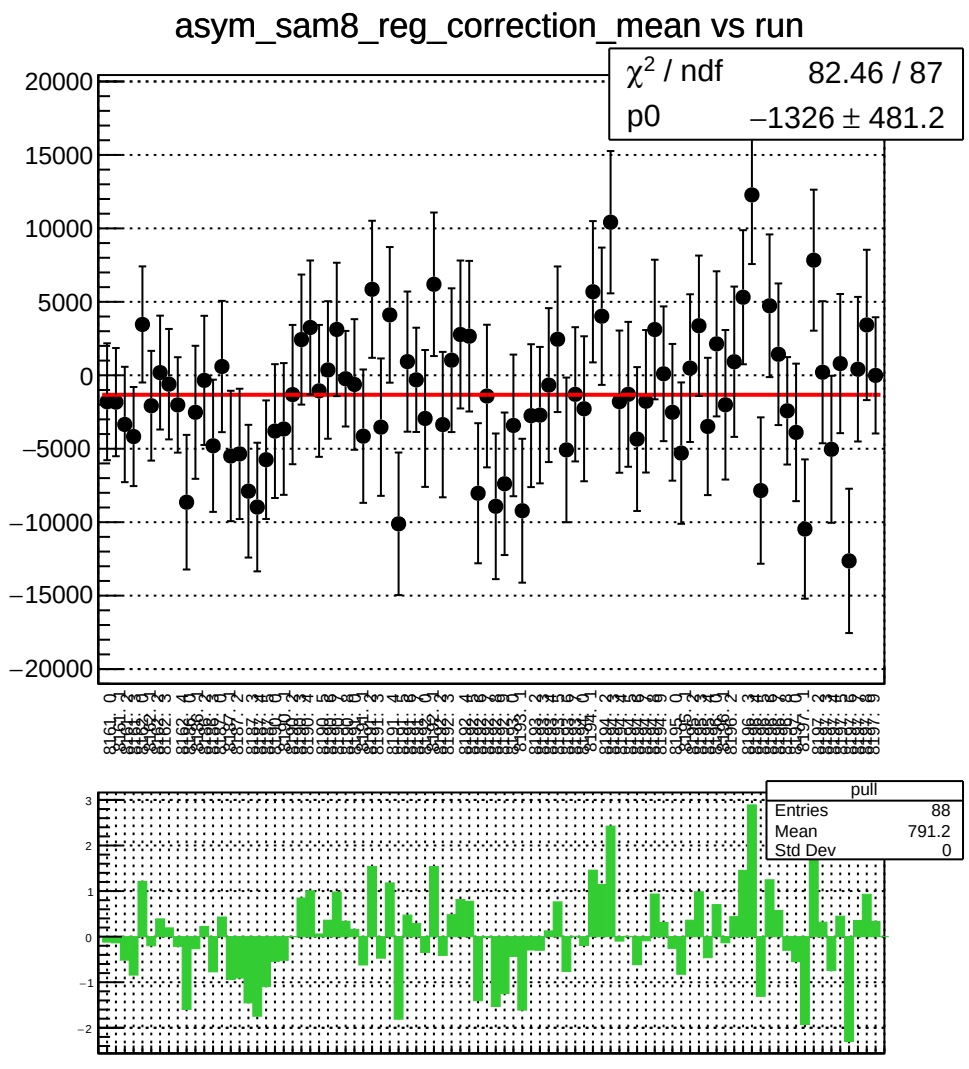

pull1D
Entries 88
Mean 0.1429
Std Dev 1.002

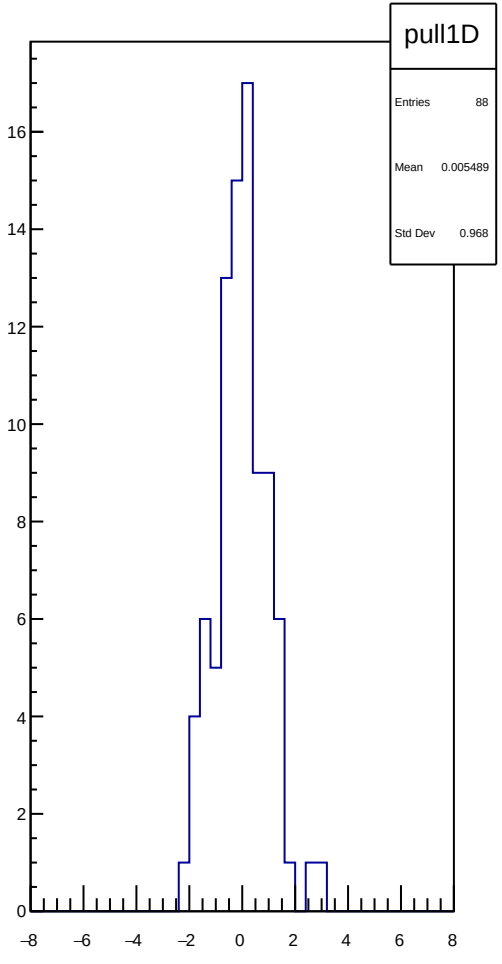

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.762e+05 / 87
p0 3.946e−11 ± 4.181e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

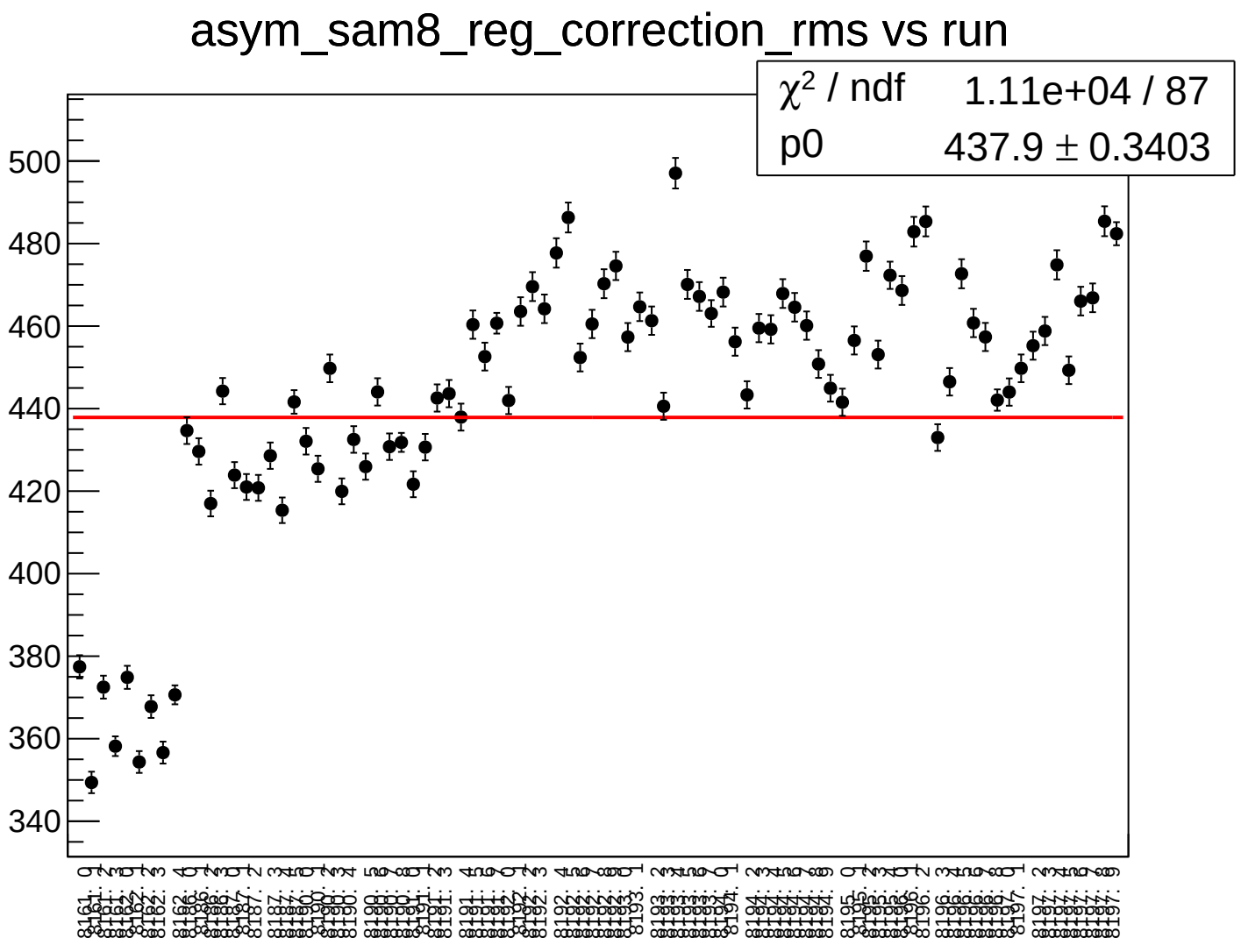

reg_asym_sam8_mean vs run
χ^2 / ndf 79.43 / 87
p0 137.7 ± 68.91
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −238.8
Std Dev 0
3
2
1
0
−1
−2

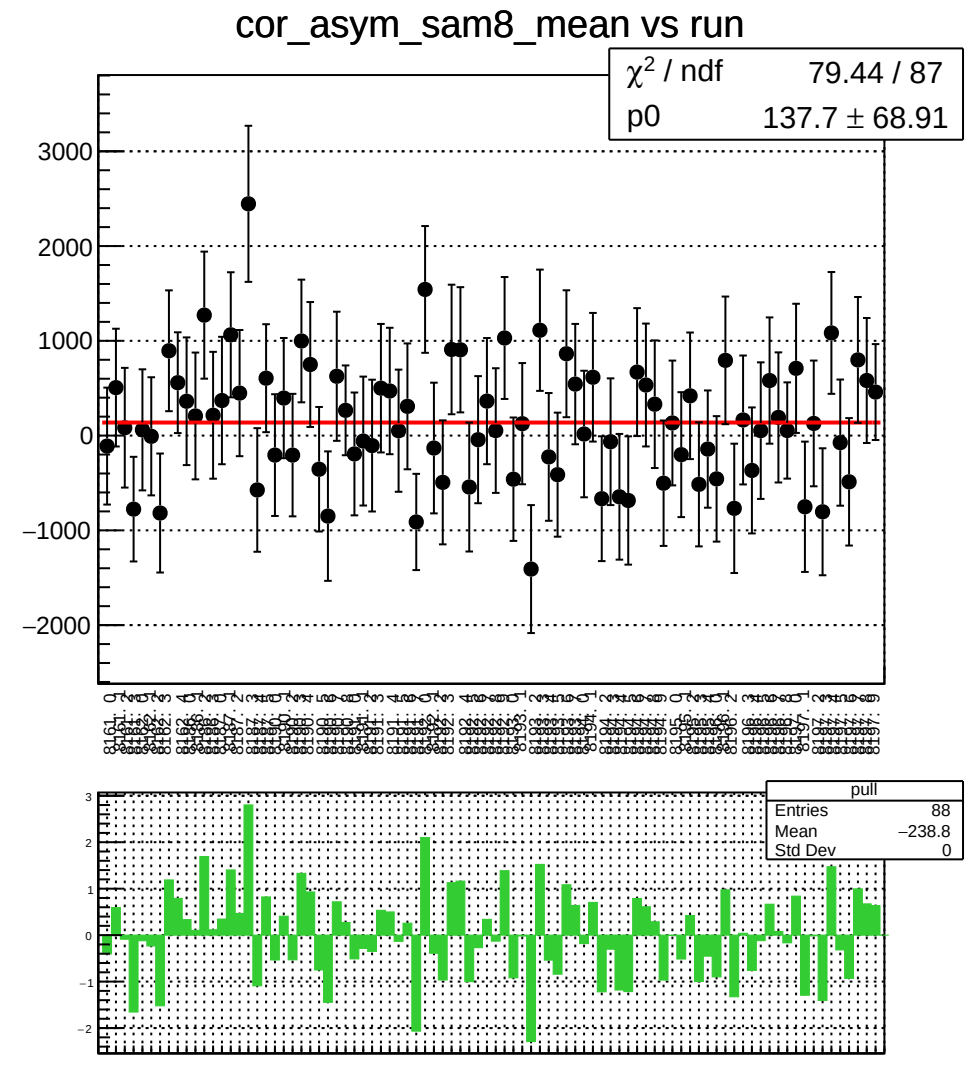

pull1D
Entries 88
Mean 0.009059
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

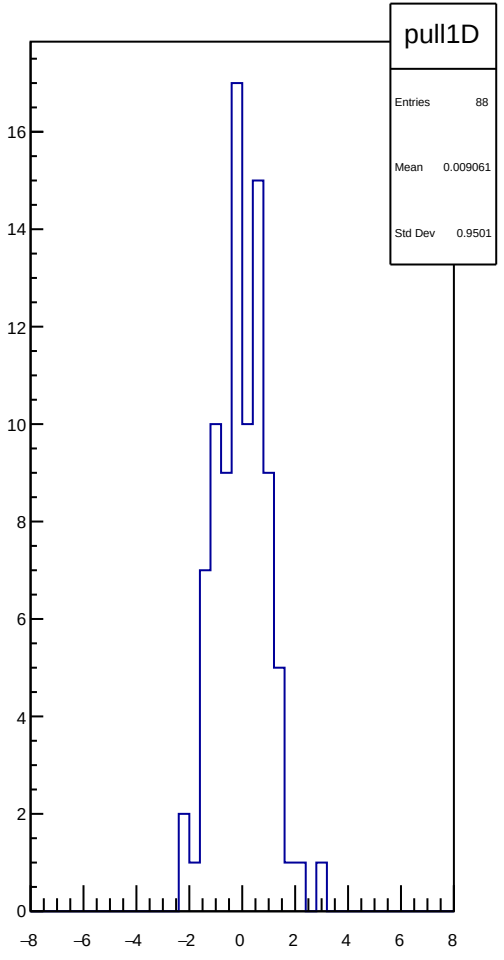

reg_asym_sam8_rms vs run
χ² / ndf 2029 / 87
p0 62.88 ± 0.04873
80
75
70
65
60

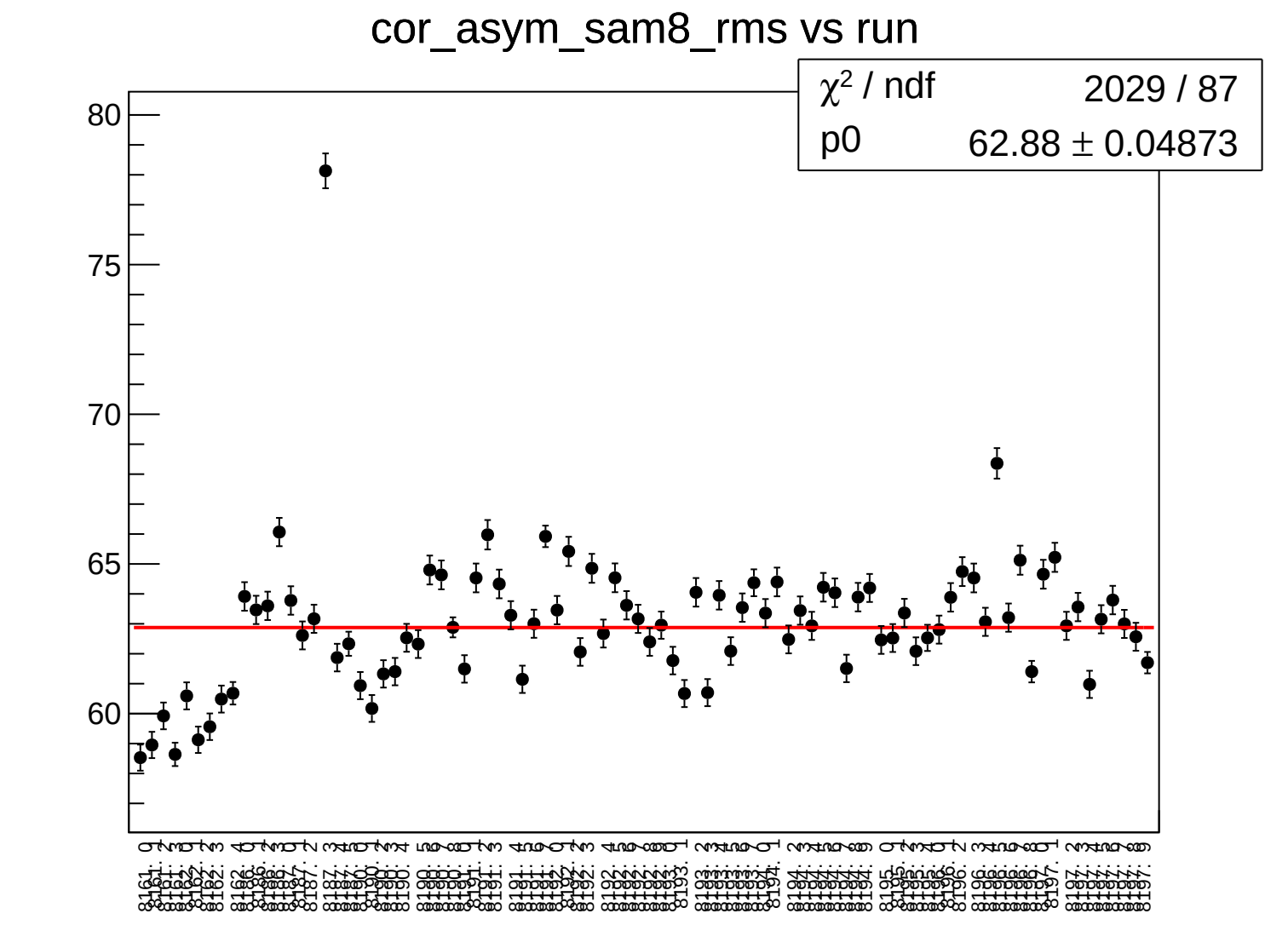

asym_sam8_reg_correction_mean vs run
χ² / ndf 82.46 / 87
p0 −1326 ± 481.2
pull
Entries 88
Mean 791.2
Std Dev 0

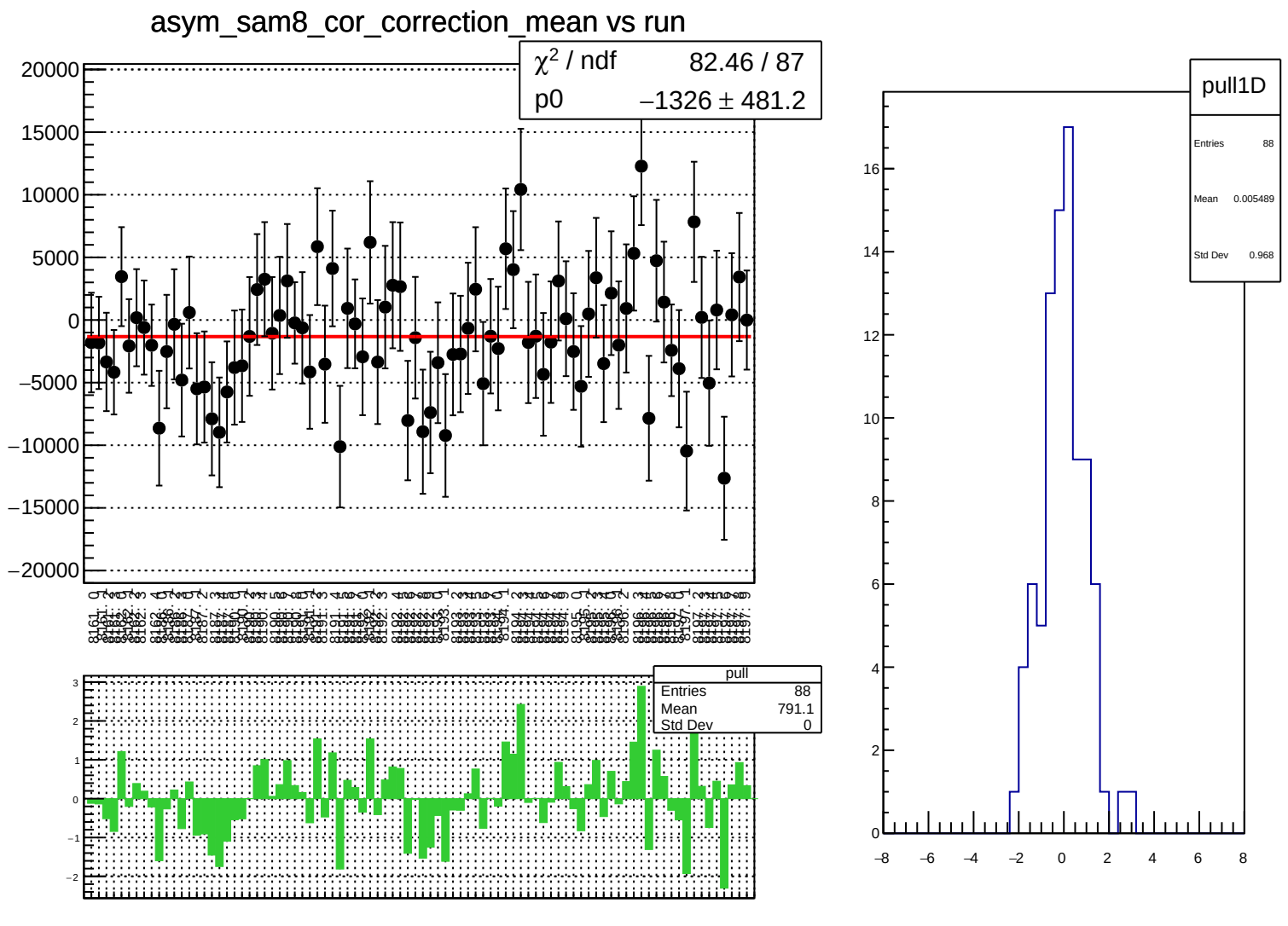

pull1D
Entries 88
Mean 0.005489
Std Dev 0.968

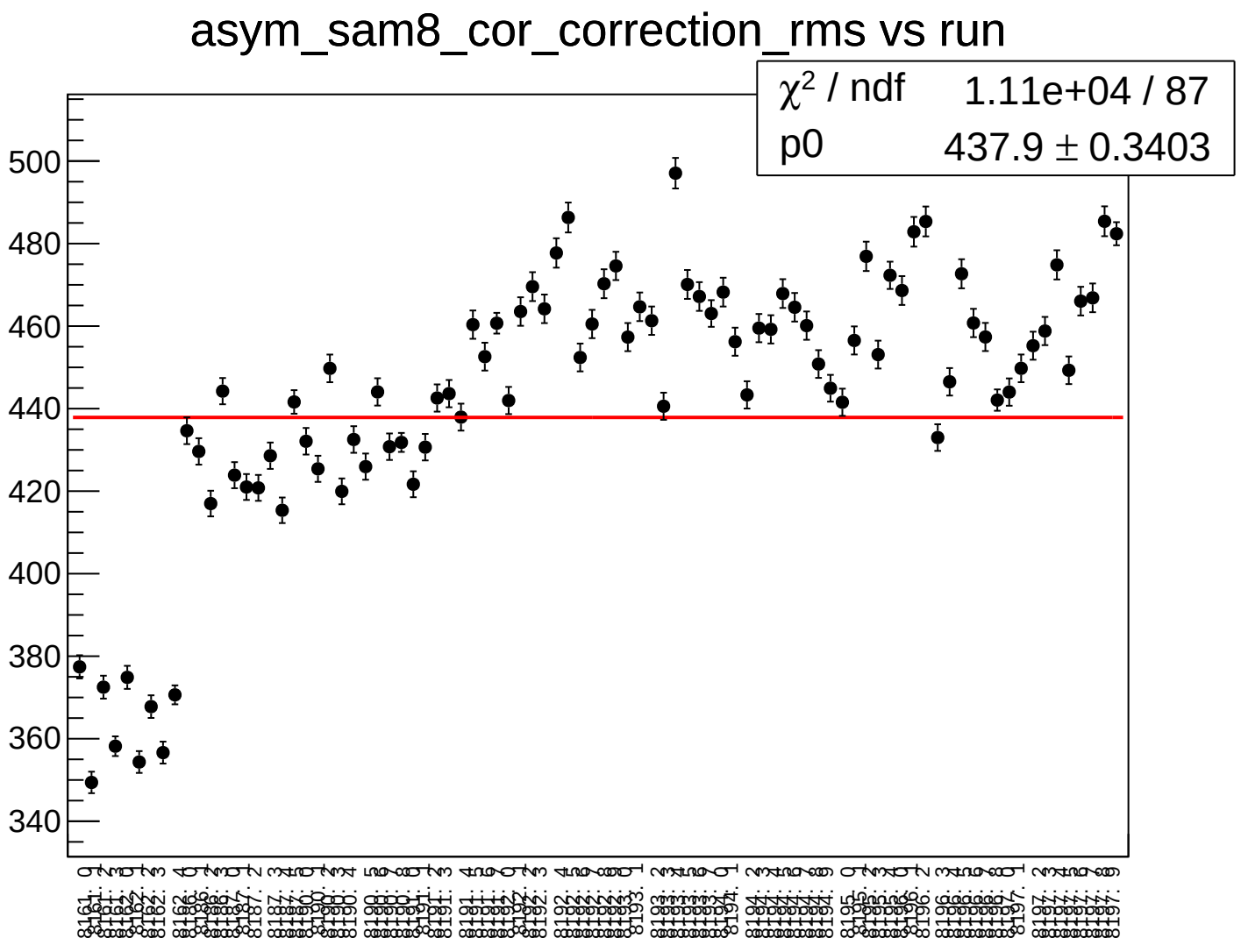

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.11e+04 / 87
p0 437.9 ± 0.3403
500
480
460
440
420
400
380
360
340

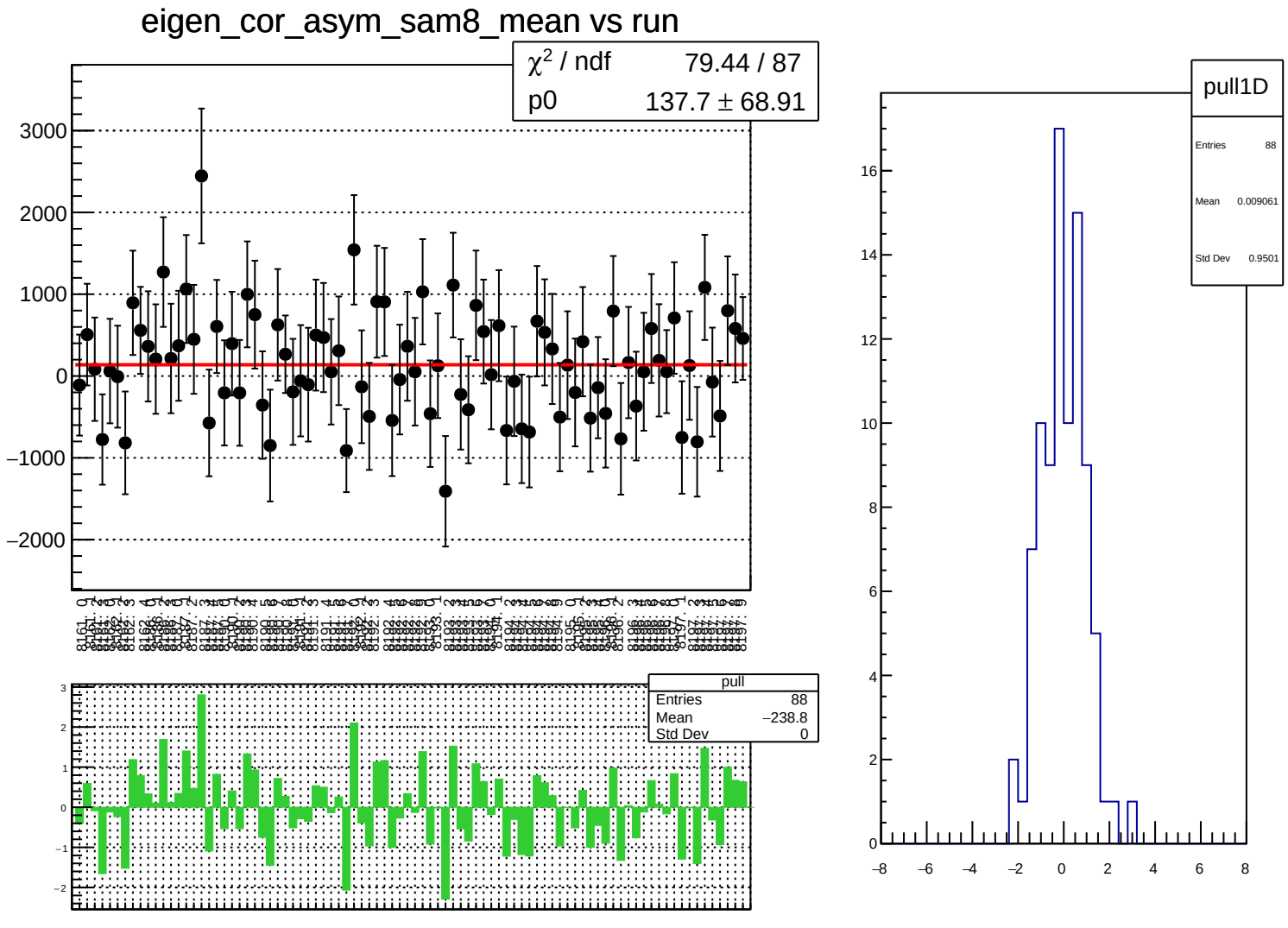

cor_asym_sam8_mean vs run
χ² / ndf 79.44 / 87
p0 137.7 ± 68.91
pull
Entries 88
Mean −238.8
Std Dev 0

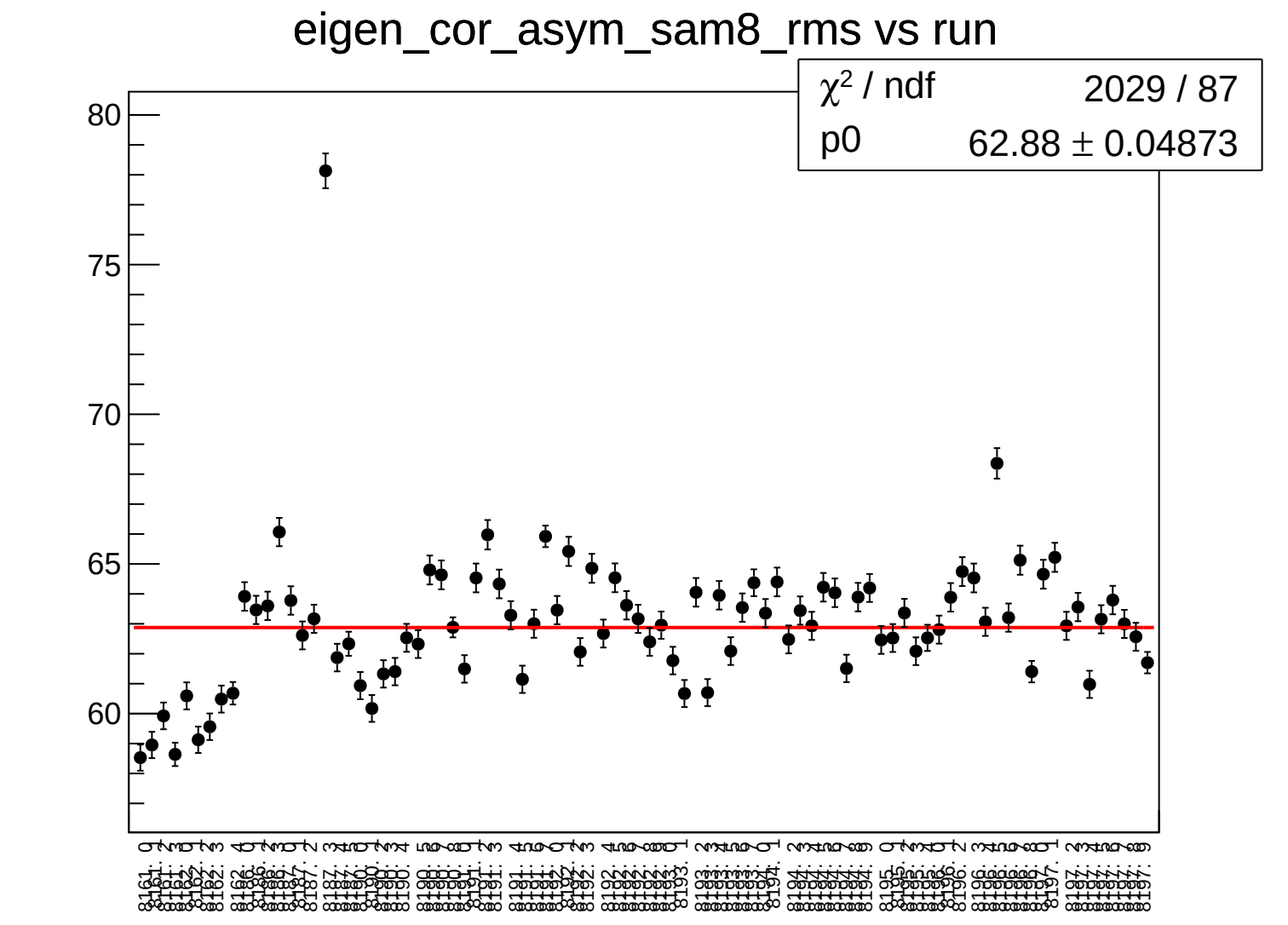

pull1D
Entries 88
Mean 0.009061
Std Dev 0.9501

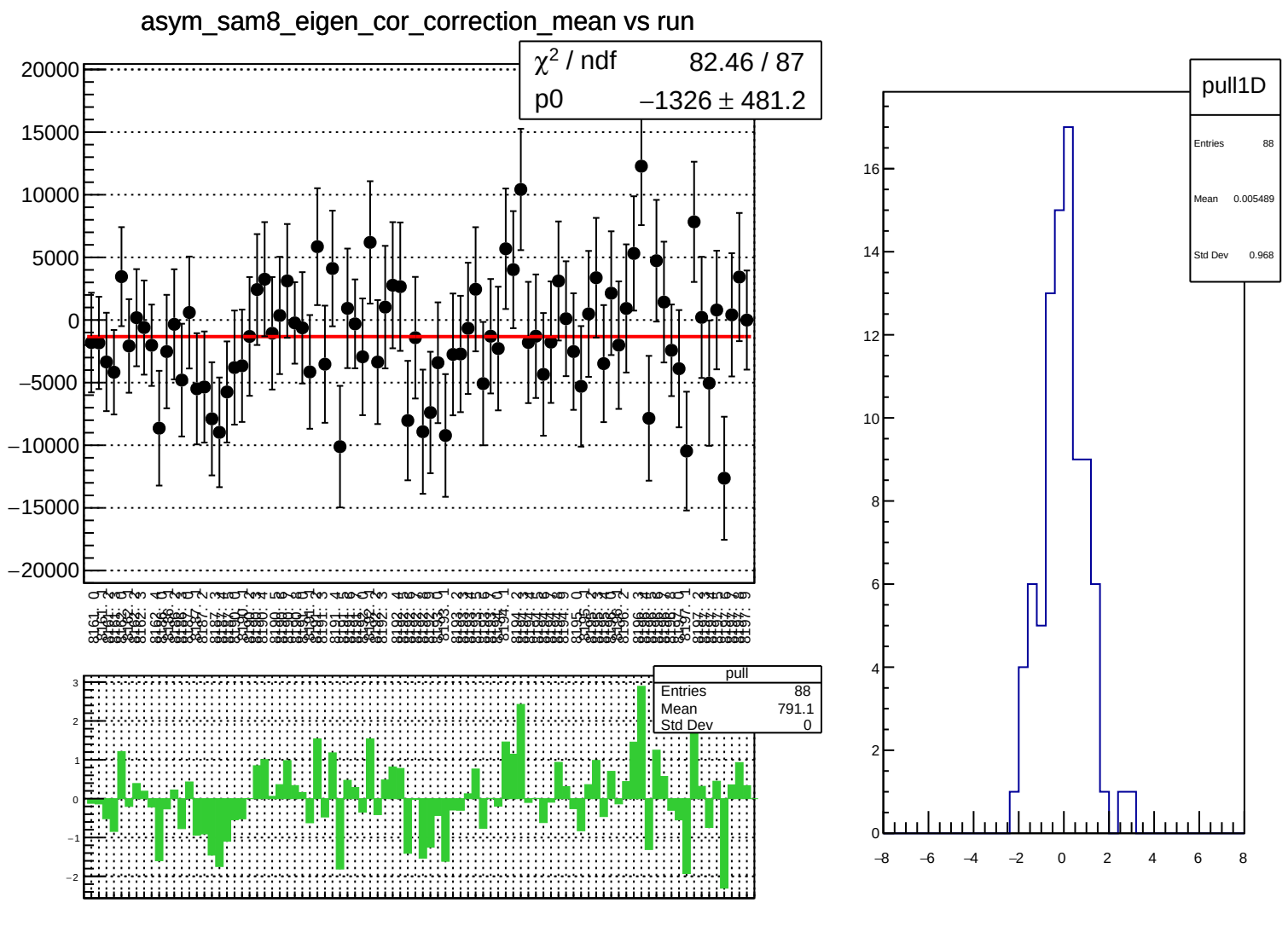

cor_asym_sam8_rms vs run
χ² / ndf 2029 / 87
p0 62.88 ± 0.04873
80
75
70
65
60

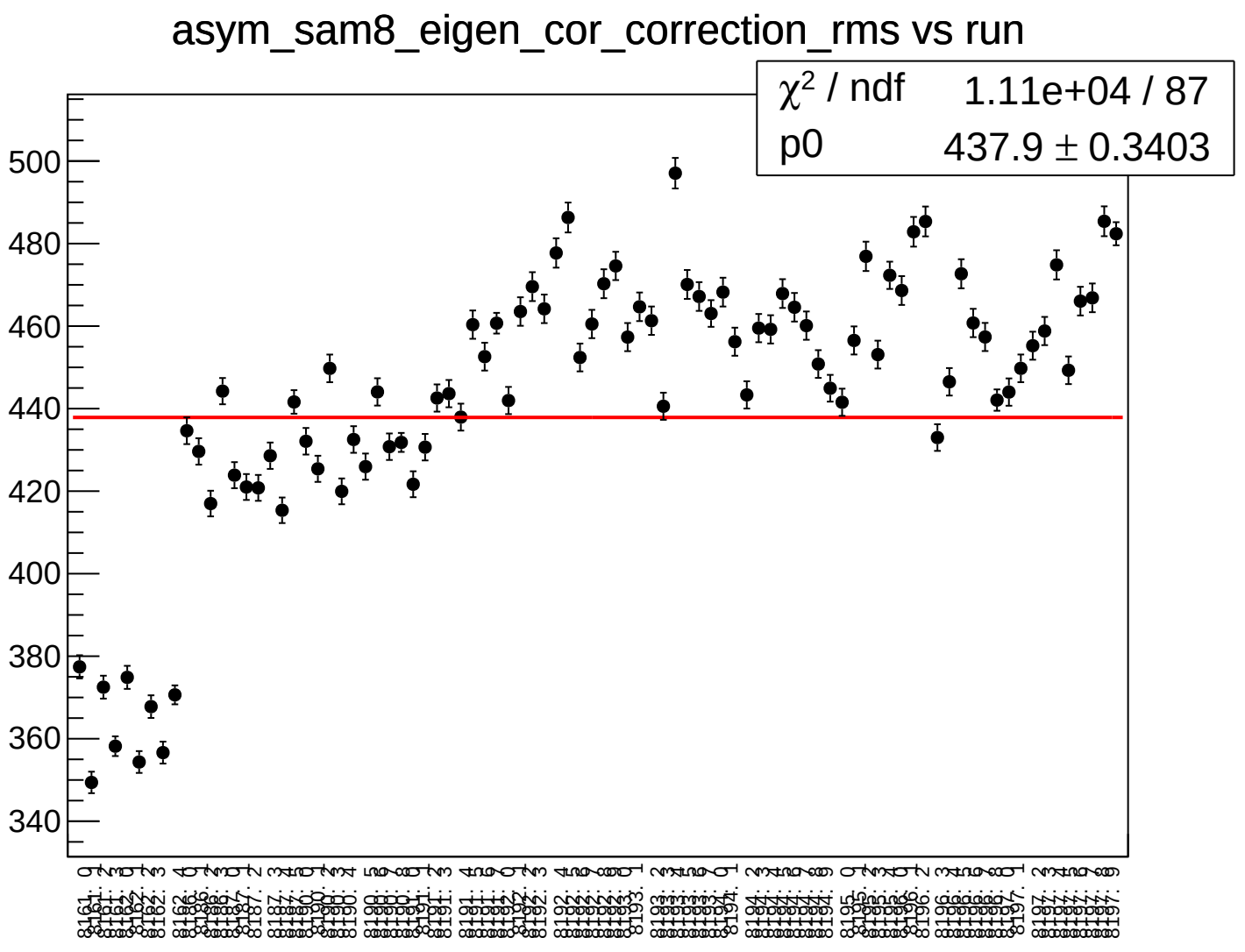

asym_sam8_cor_correction_mean vs run
χ² / ndf 82.46 / 87
p0 −1326 ± 481.2
pull
Entries 88
Mean 791.1
Std Dev 0
pull1D
Entries 88
Mean 0.005489
Std Dev 0.968

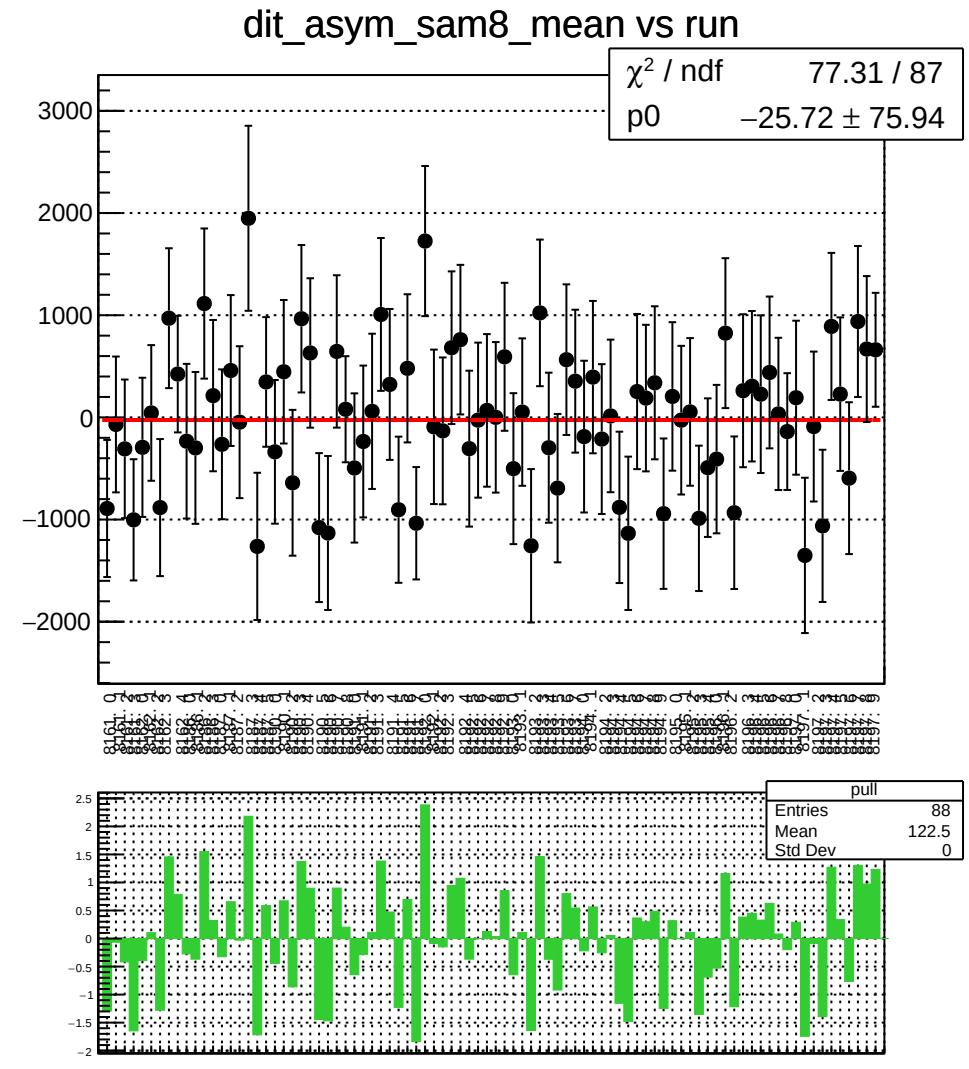

asym_sam8_cor_correction_rms vs run
χ² / ndf 1.11e+04 / 87
p0 437.9 ± 0.3403
500
480
460
440
420
400
380
360
340

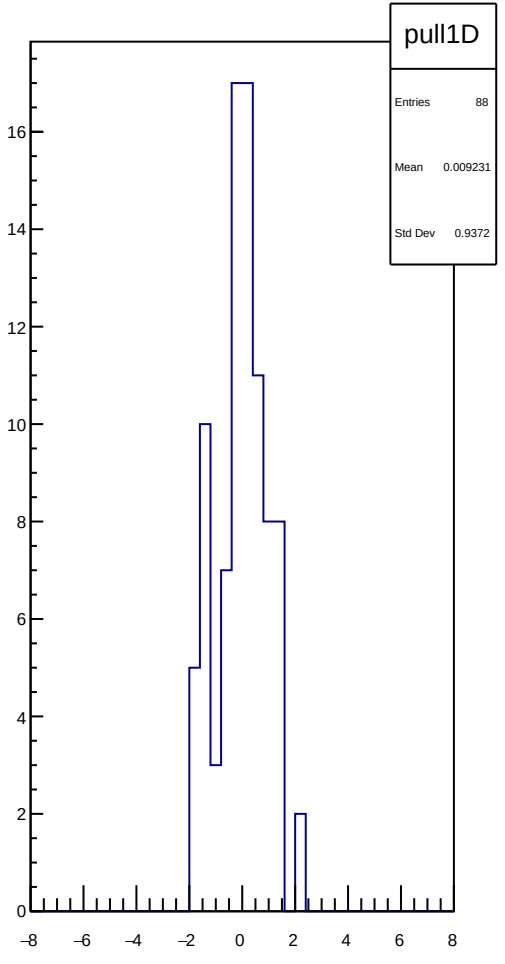

eigen_cor_asym_sam8_mean vs run
χ² / ndf 79.44 / 87
p0 137.7 ± 68.91
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −238.8
Std Dev 0
pull1D
Entries 88
Mean 0.009061
Std Dev 0.9501
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

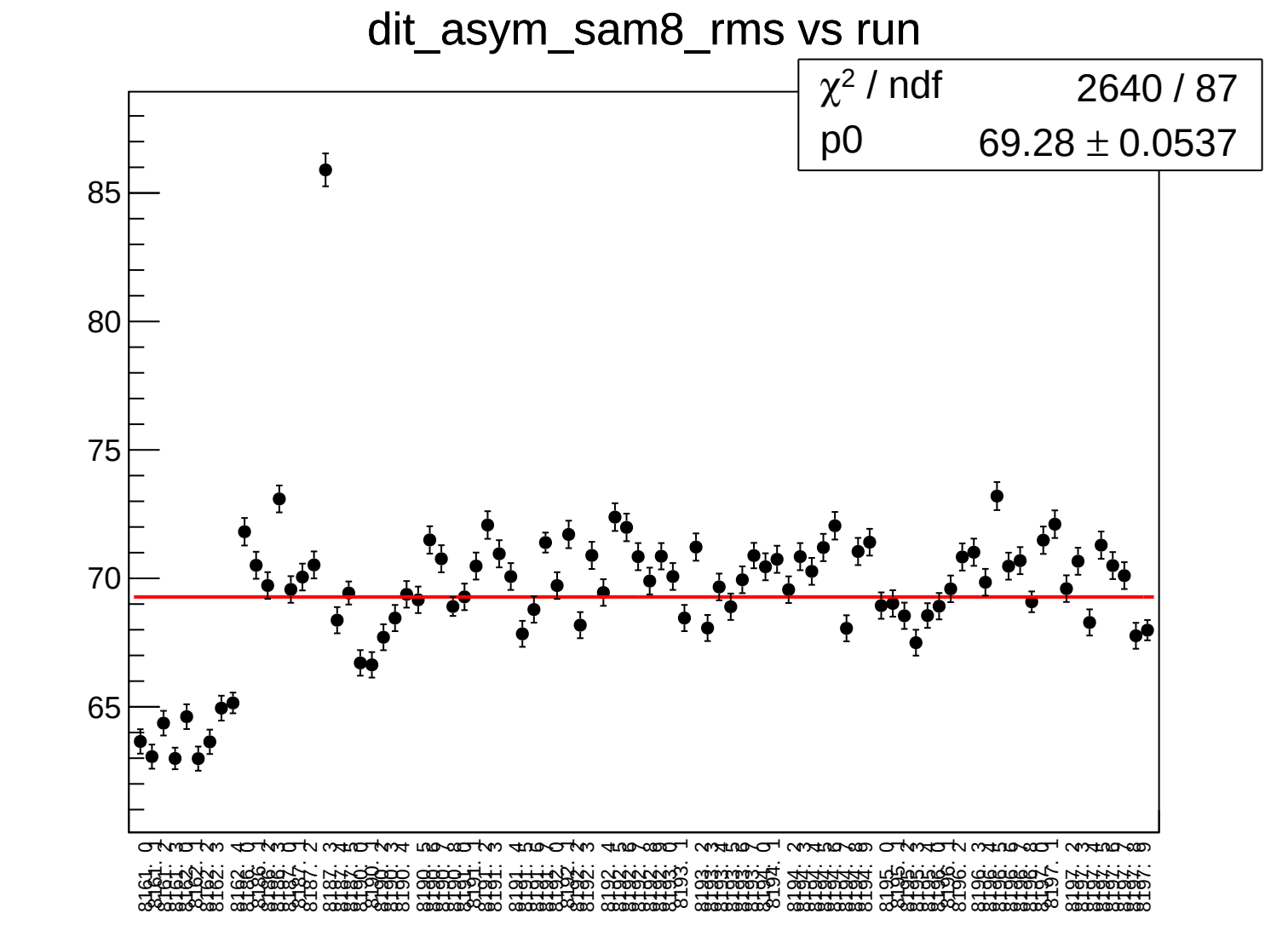

eigen_cor_asym_sam8_rms vs run
χ² / ndf 2029 / 87
p0 62.88 ± 0.04873
80
75
70
65
60

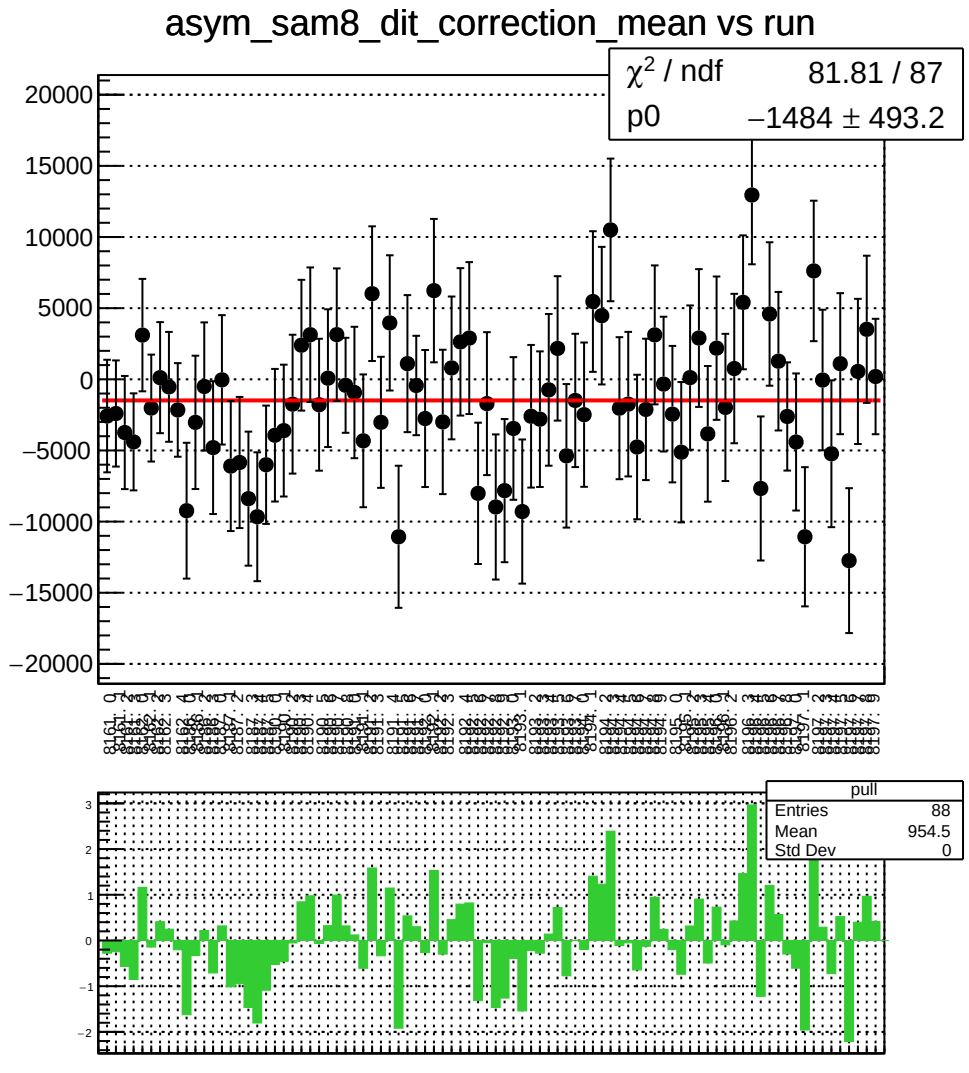

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 82.46 / 87
p0 −1326 ± 481.2
pull
Entries 88
Mean 791.1
Std Dev 0
pull1D
Entries 88
Mean 0.005489
Std Dev 0.968

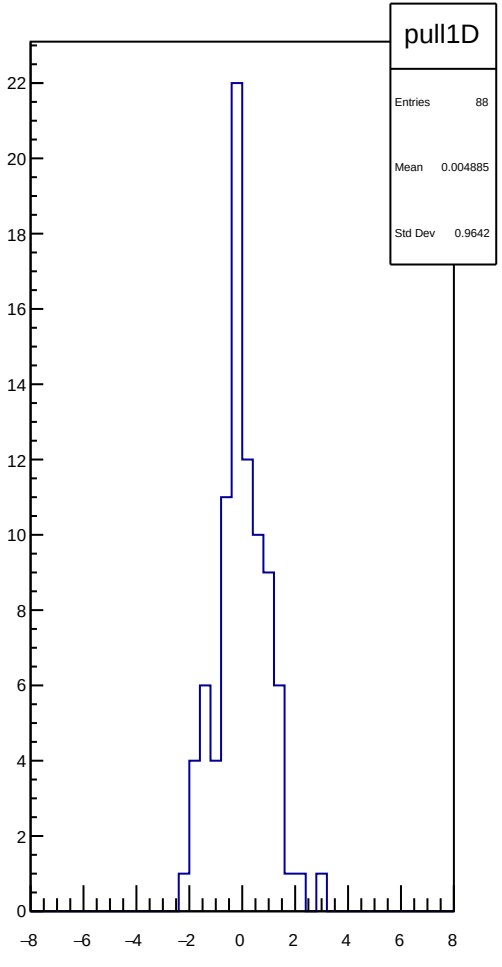

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1.11e+04 / 87
p0 437.9 ± 0.3403
500
480
460
440
420
400
380
360
340


dit_asym_sam8_mean vs run
χ² / ndf 77.31 / 87
p0 −25.72 ± 75.94
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 122.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

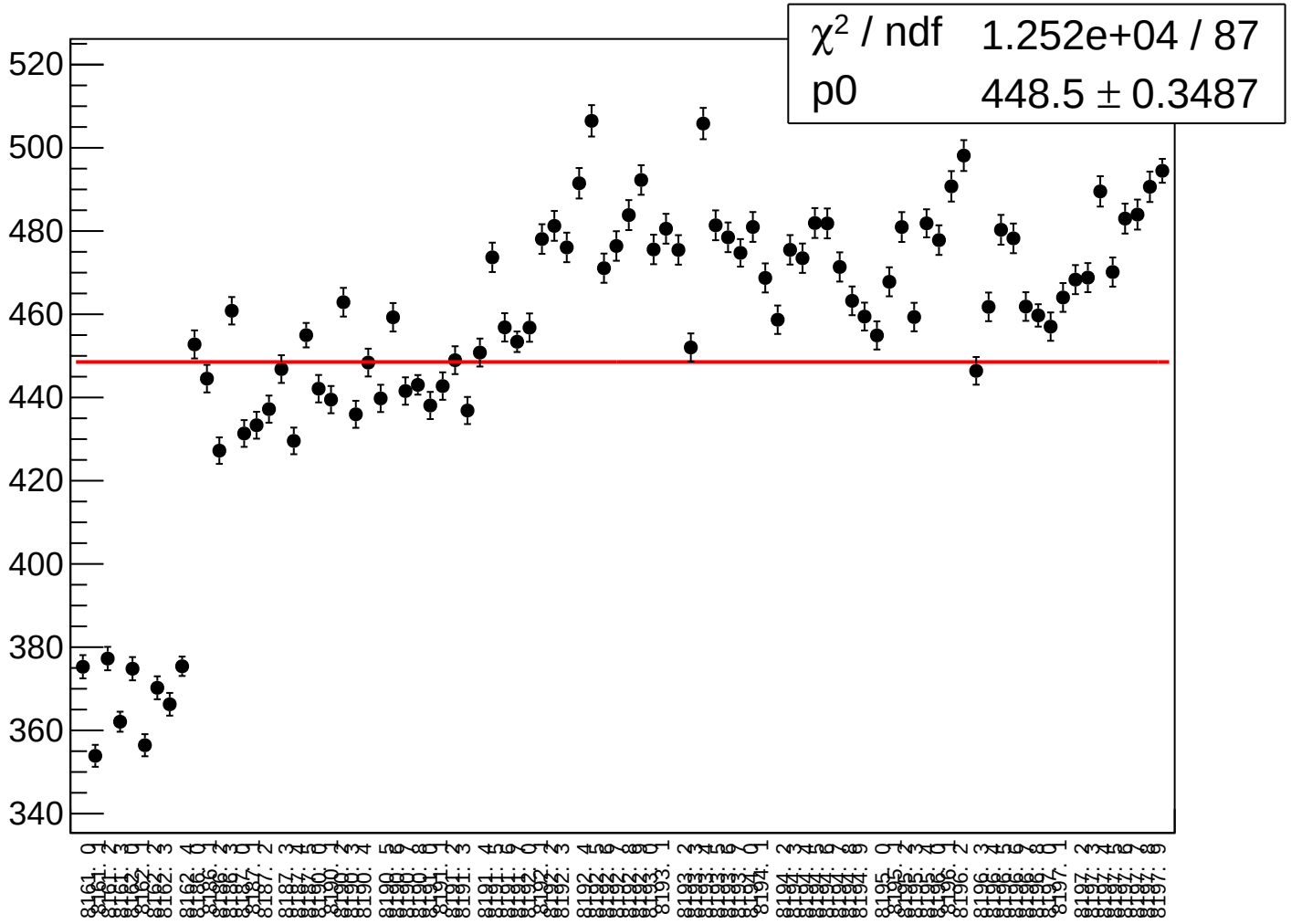

pull1D
Entries 88
Mean 0.009231
Std Dev 0.9372
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

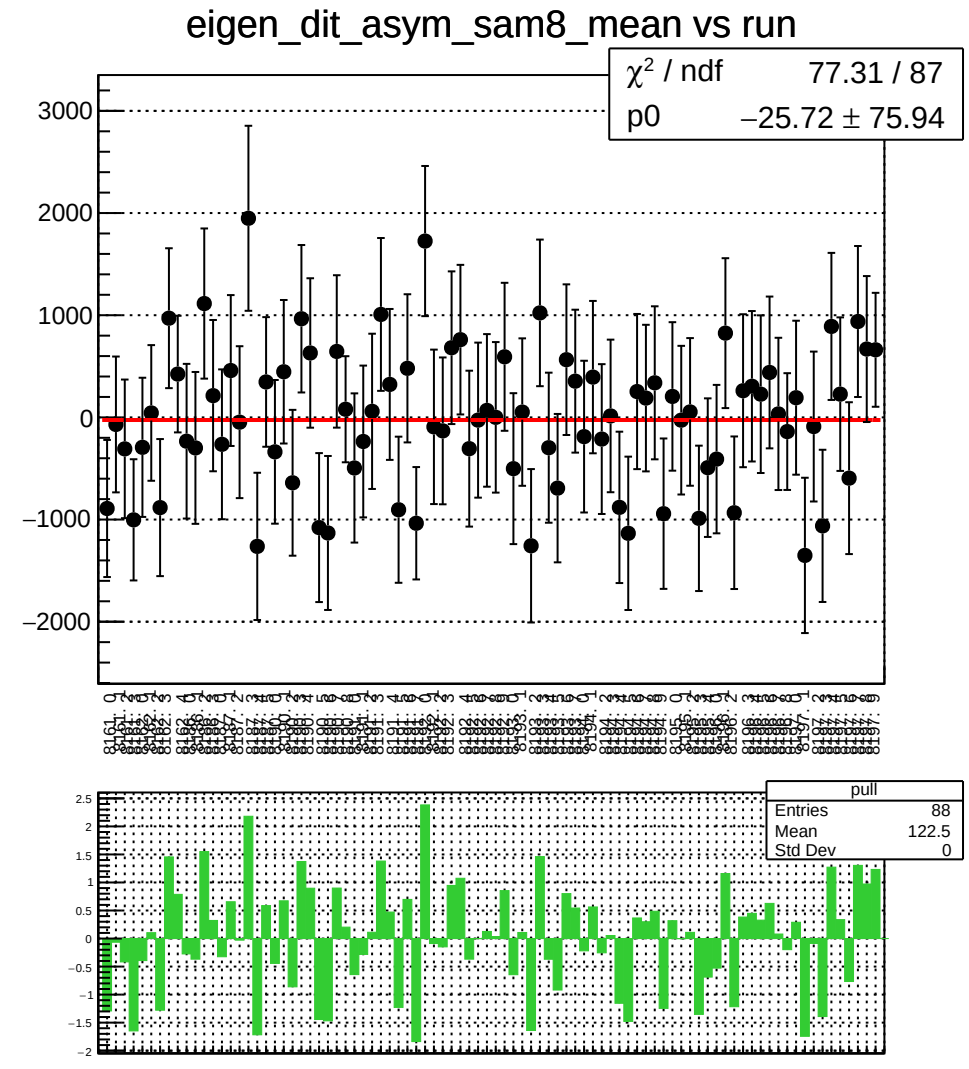

dit_asym_sam8_rms vs run
χ² / ndf 2640 / 87
p0 69.28 ± 0.0537
85
80
75
70
65

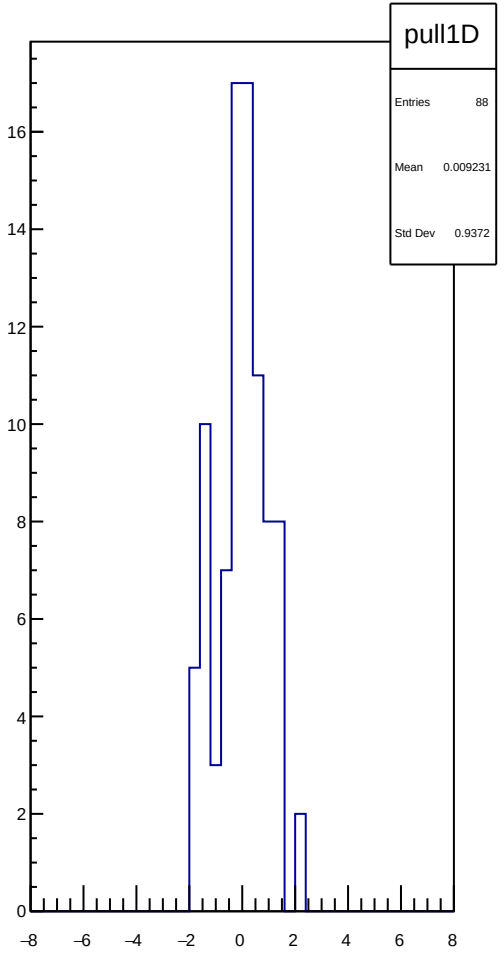

asym_sam8_dit_correction_mean vs run
χ² / ndf 81.81 / 87
p0 −1484 ± 493.2
pull
Entries 88
Mean 954.5
Std Dev 0

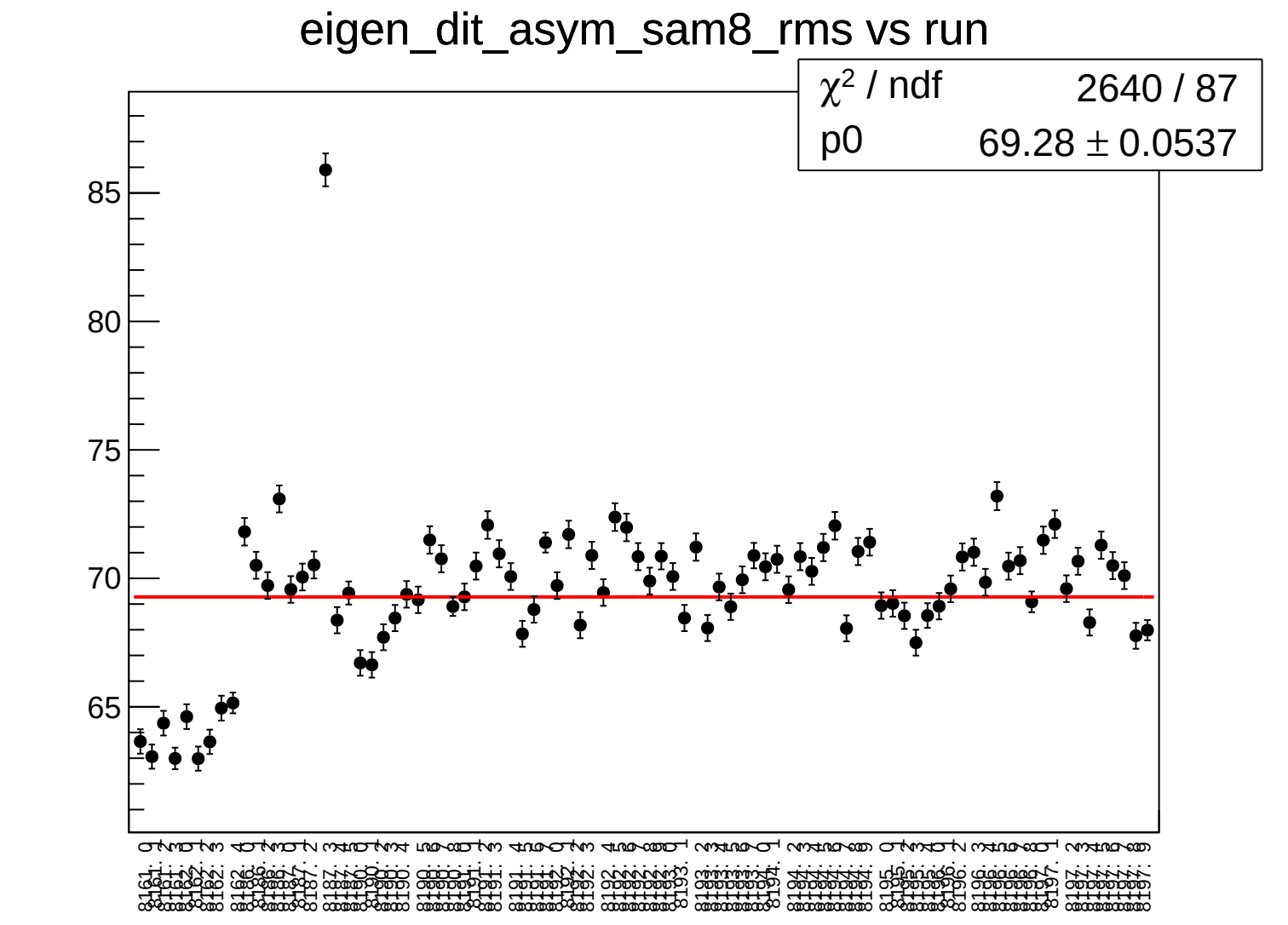

pull1D
Entries 88
Mean 0.004885
Std Dev 0.9642

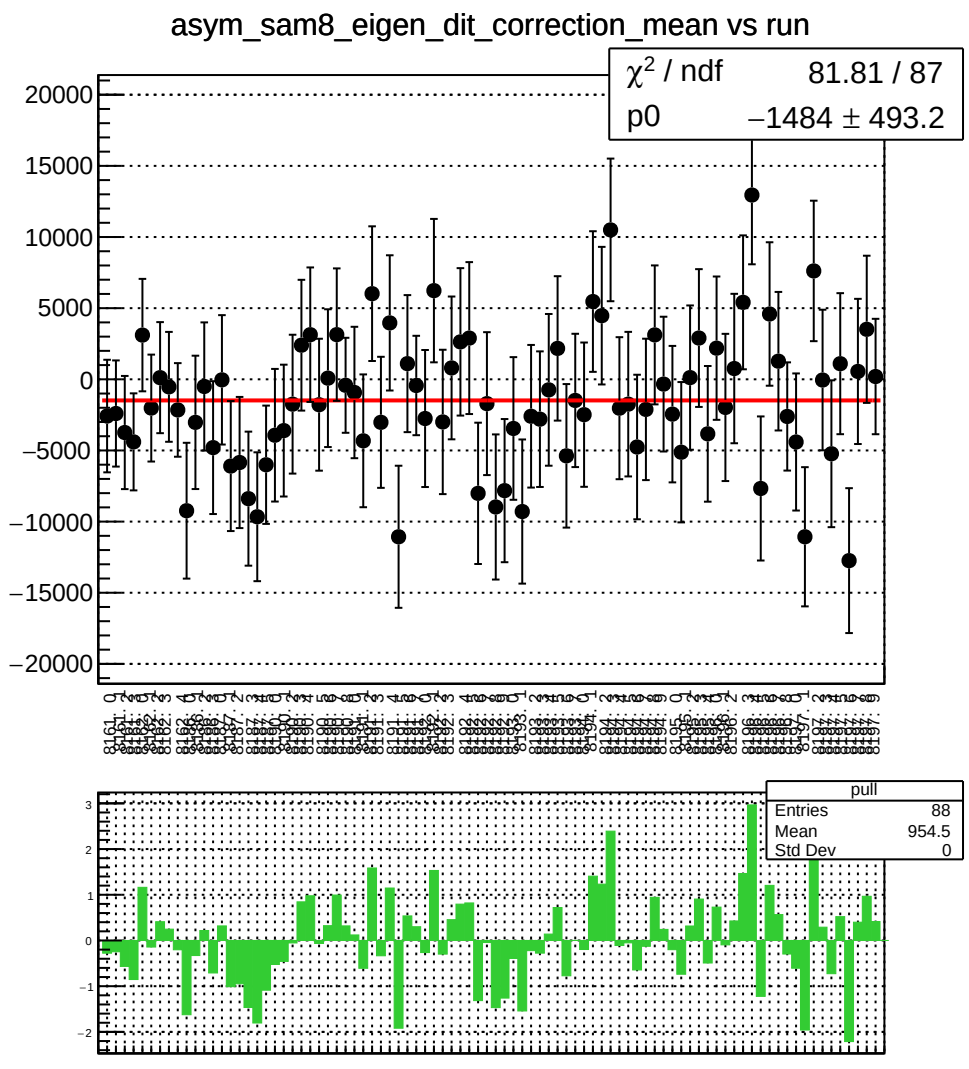
asym_sam8_dit_correction_rms vs run

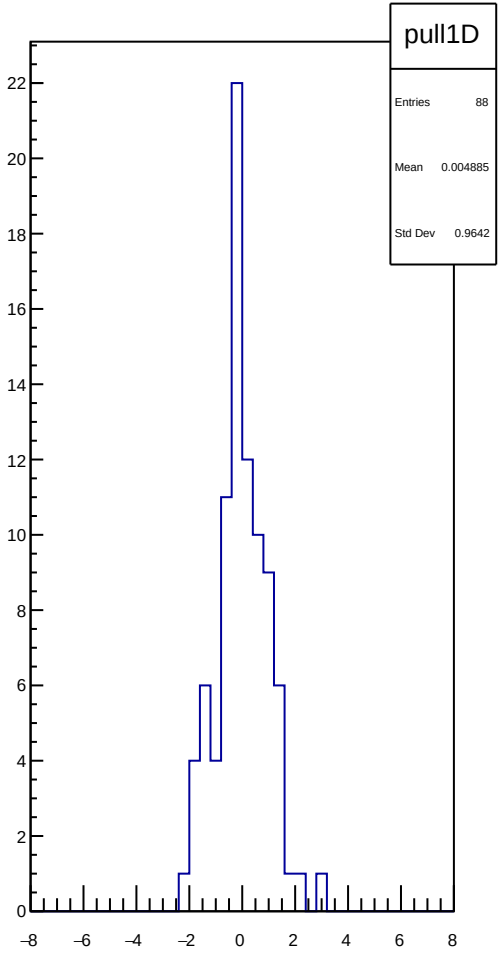


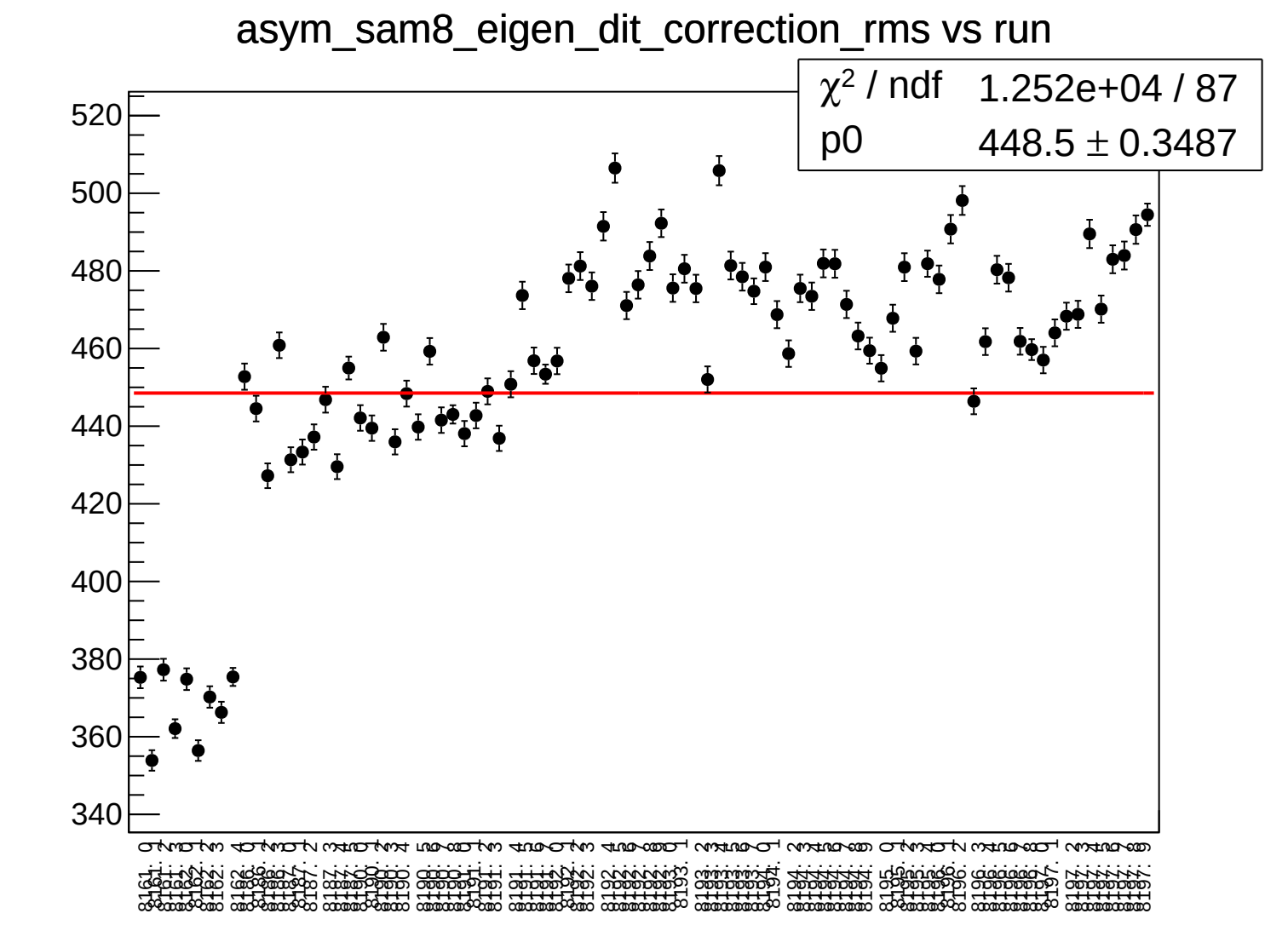

eigen_dit_asym_sam8_mean vs run
χ² / ndf 77.31 / 87
p0 −25.72 ± 75.94
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 122.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

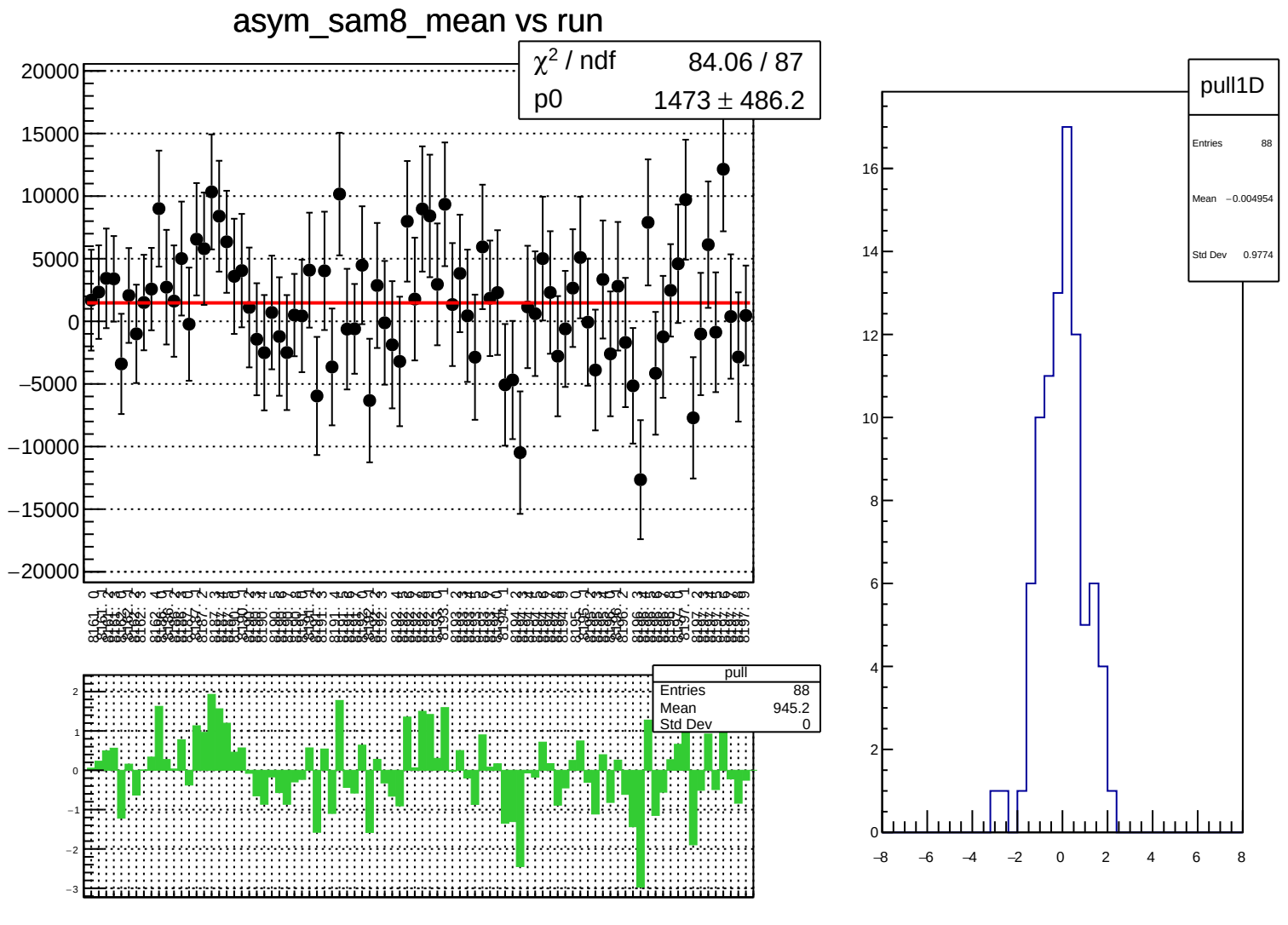

pull1D
Entries 88
Mean 0.009231
Std Dev 0.9372
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

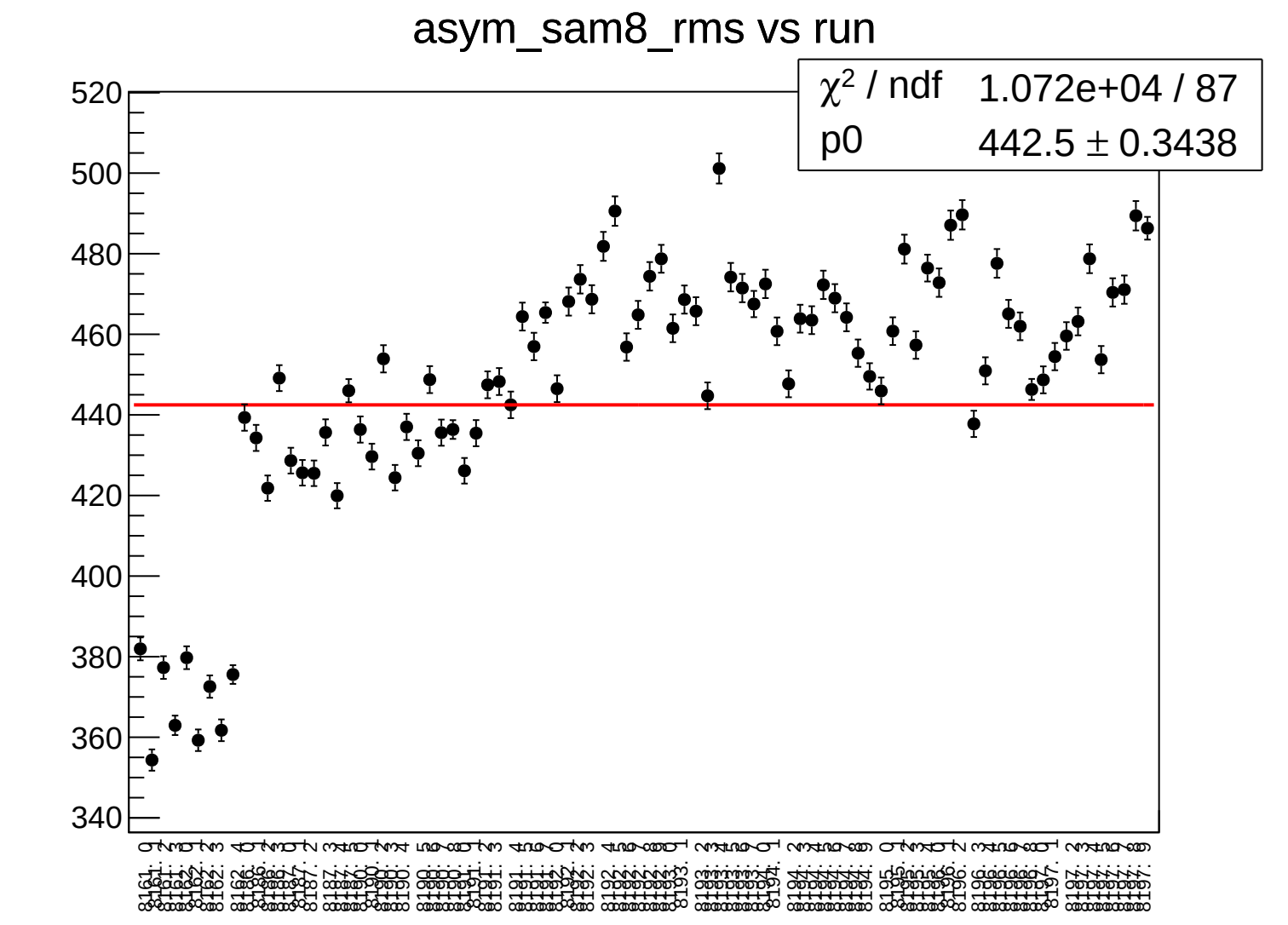

eigen_dit_asym_sam8_rms vs run
χ² / ndf 2640 / 87
p0 69.28 ± 0.0537
85
80
75
70
65

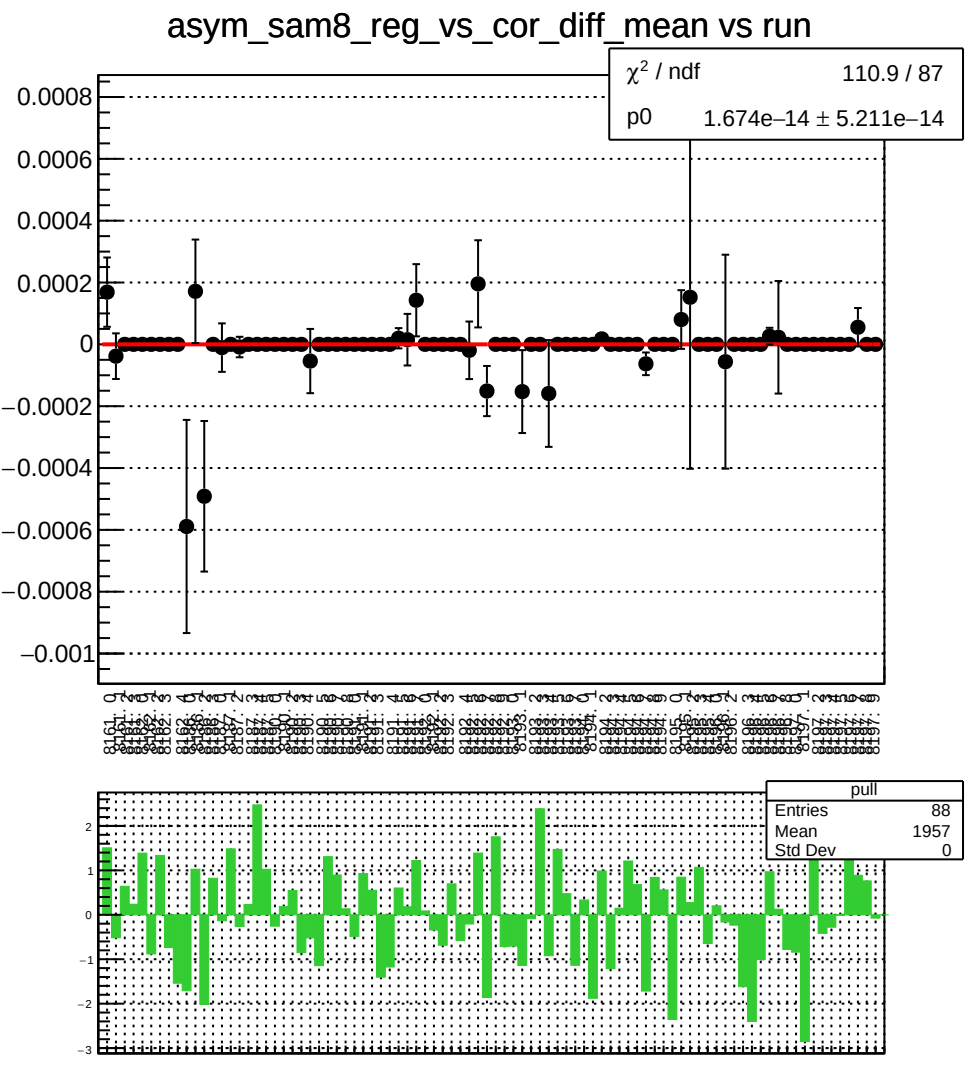

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 81.81 / 87
p0 −1484 ± 493.2
pull
Entries 88
Mean 954.5
Std Dev 0

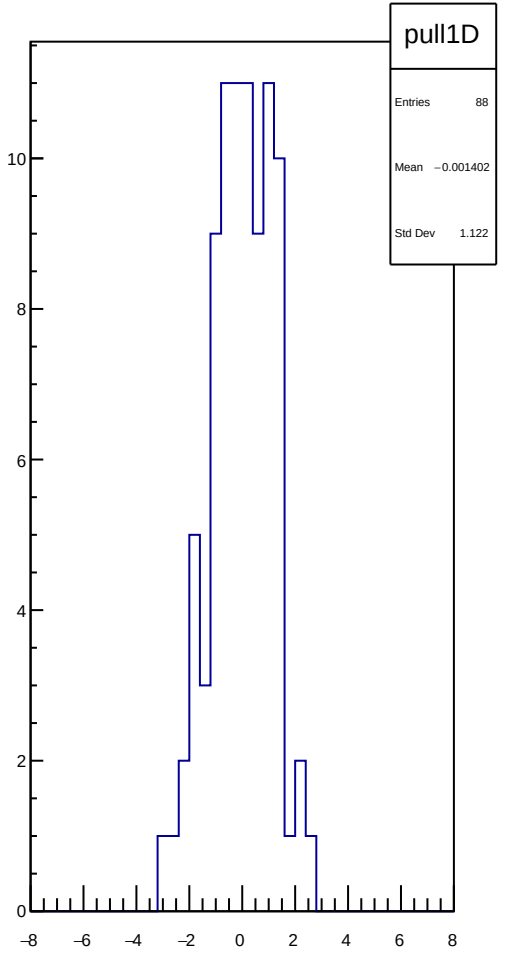

pull1D
Entries 88
Mean 0.004885
Std Dev 0.9642

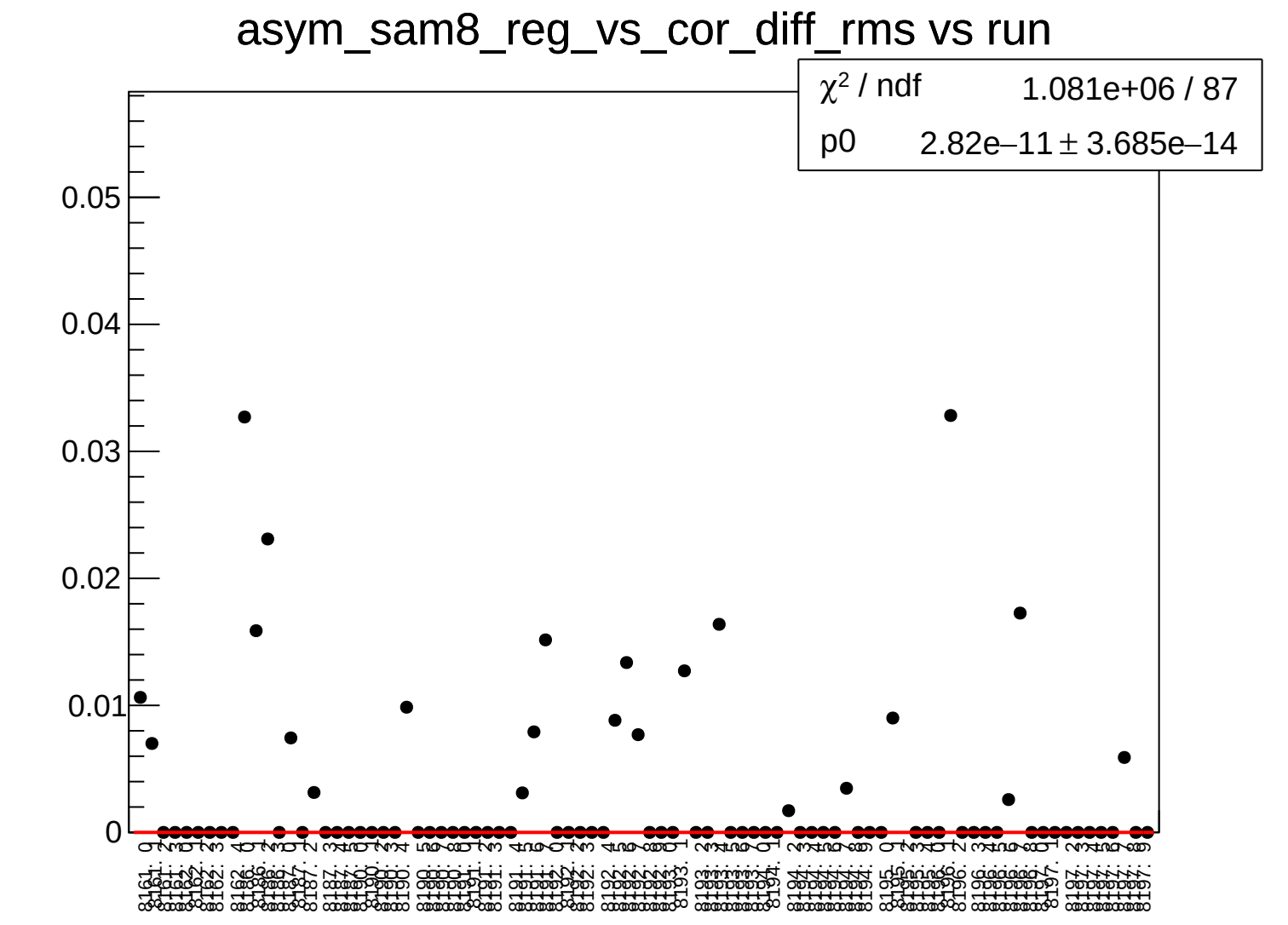

asym_sam8_eigen_dit_correction_rms vs run
χ^2 / ndf 1.252e+04 / 87
p0 448.5 ± 0.3487
520
500
480
460
440
420
400
380
360
340

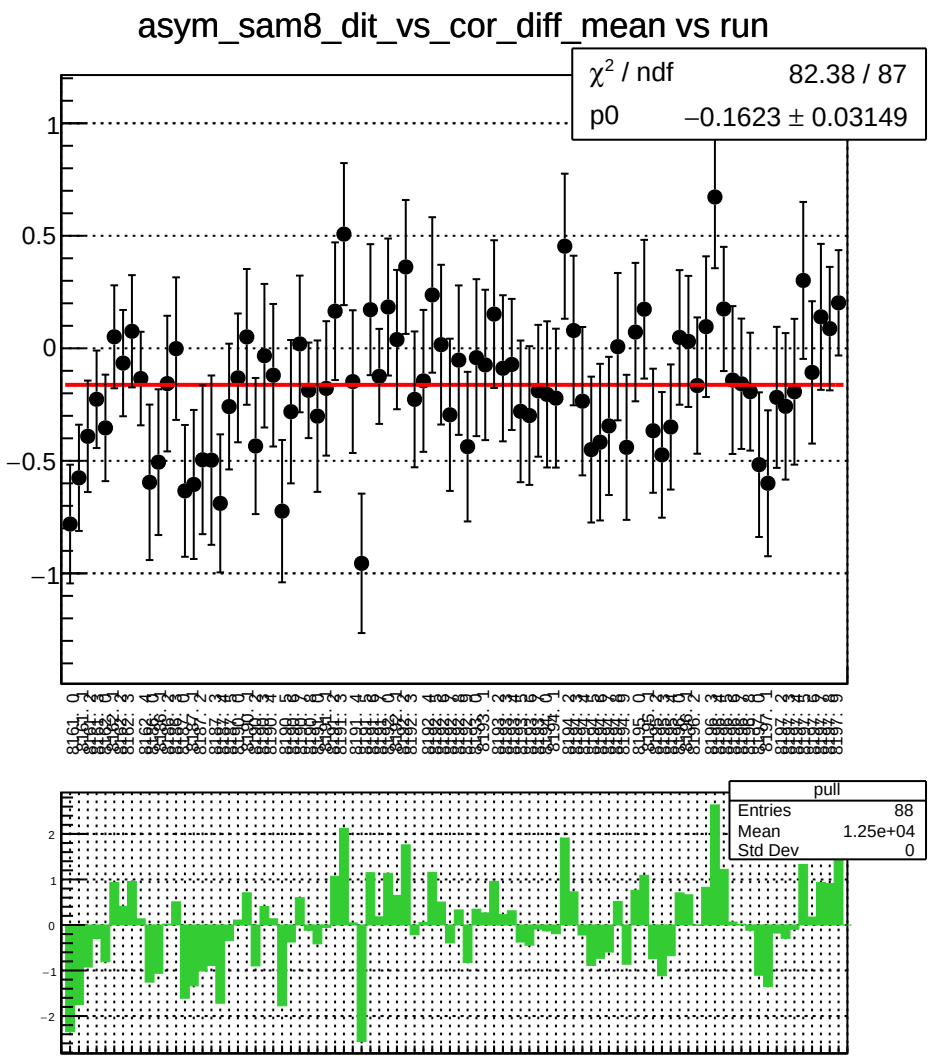

asym_sam8_mean vs run
χ² / ndf 84.06 / 87
p0 1473 ± 486.2
pull
Entries 88
Mean 945.2
Std Dev 0
pull1D
Entries 88
Mean −0.004954
Std Dev 0.9774

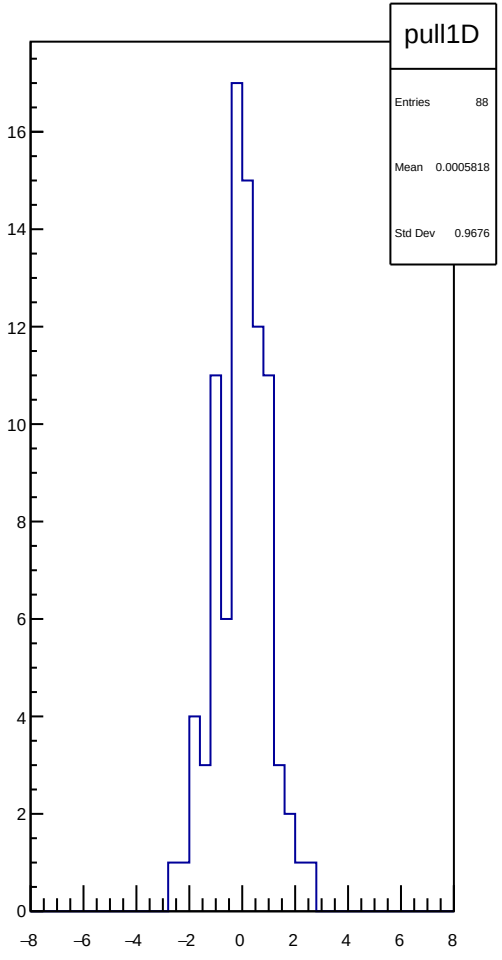

asym_sam8_rms vs run
χ^2 / ndf 1.072e+04 / 87
p0 442.5 ± 0.3438
520
500
480
460
440
420
400
380
360
340

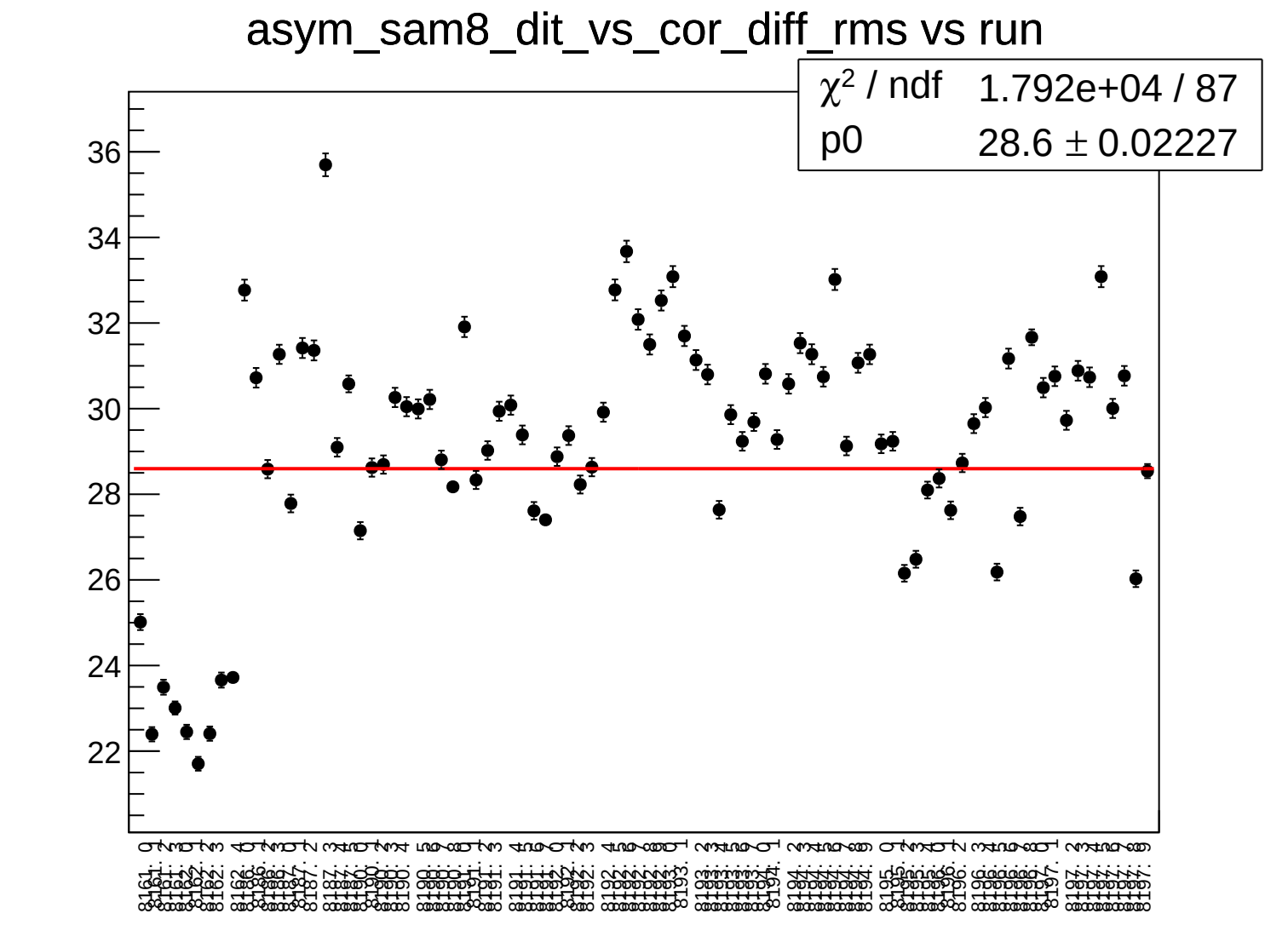

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 87
p0 1.674e−14 ± 5.211e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 1957
Std Dev 0
2
1
0
−1
−2
−3

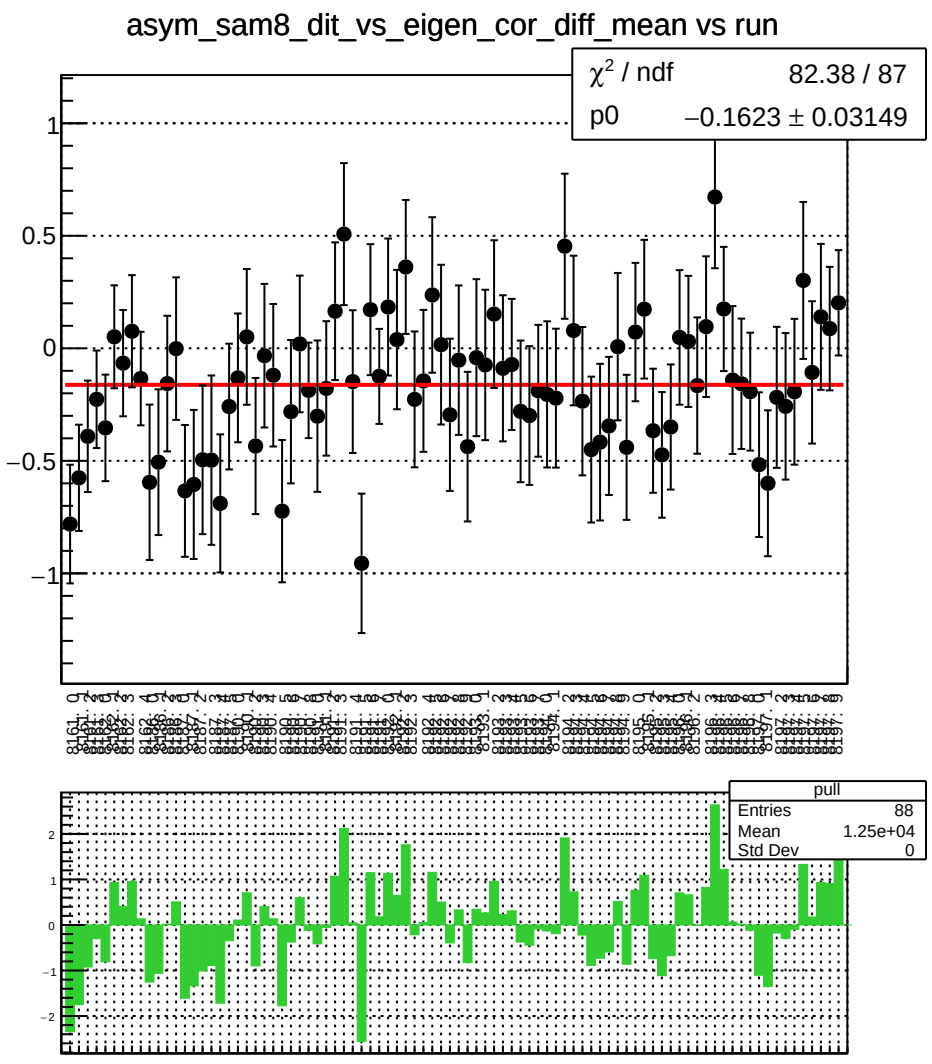

pull1D
Entries 88
Mean −0.001402
Std Dev 1.122
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

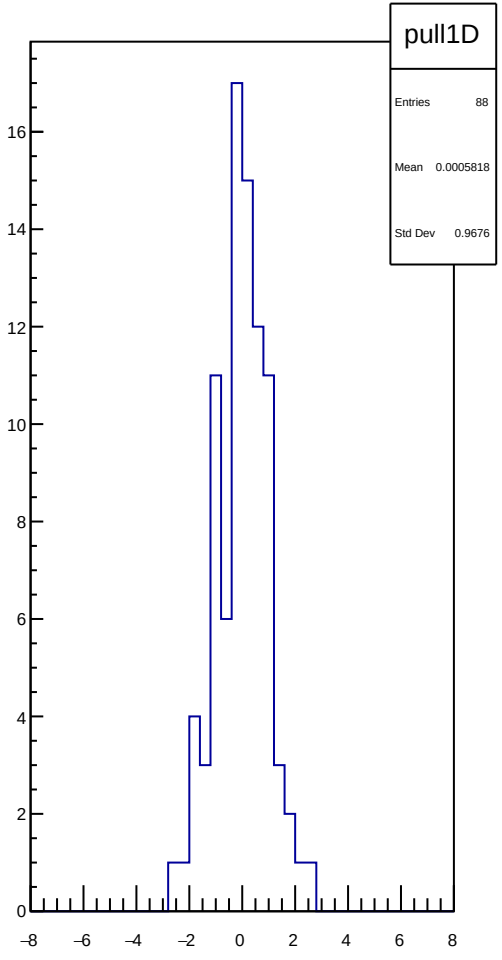

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.081e+06 / 87
p0 2.82e−11 ± 3.685e−14
0.05
0.04
0.03
0.02
0.01
0

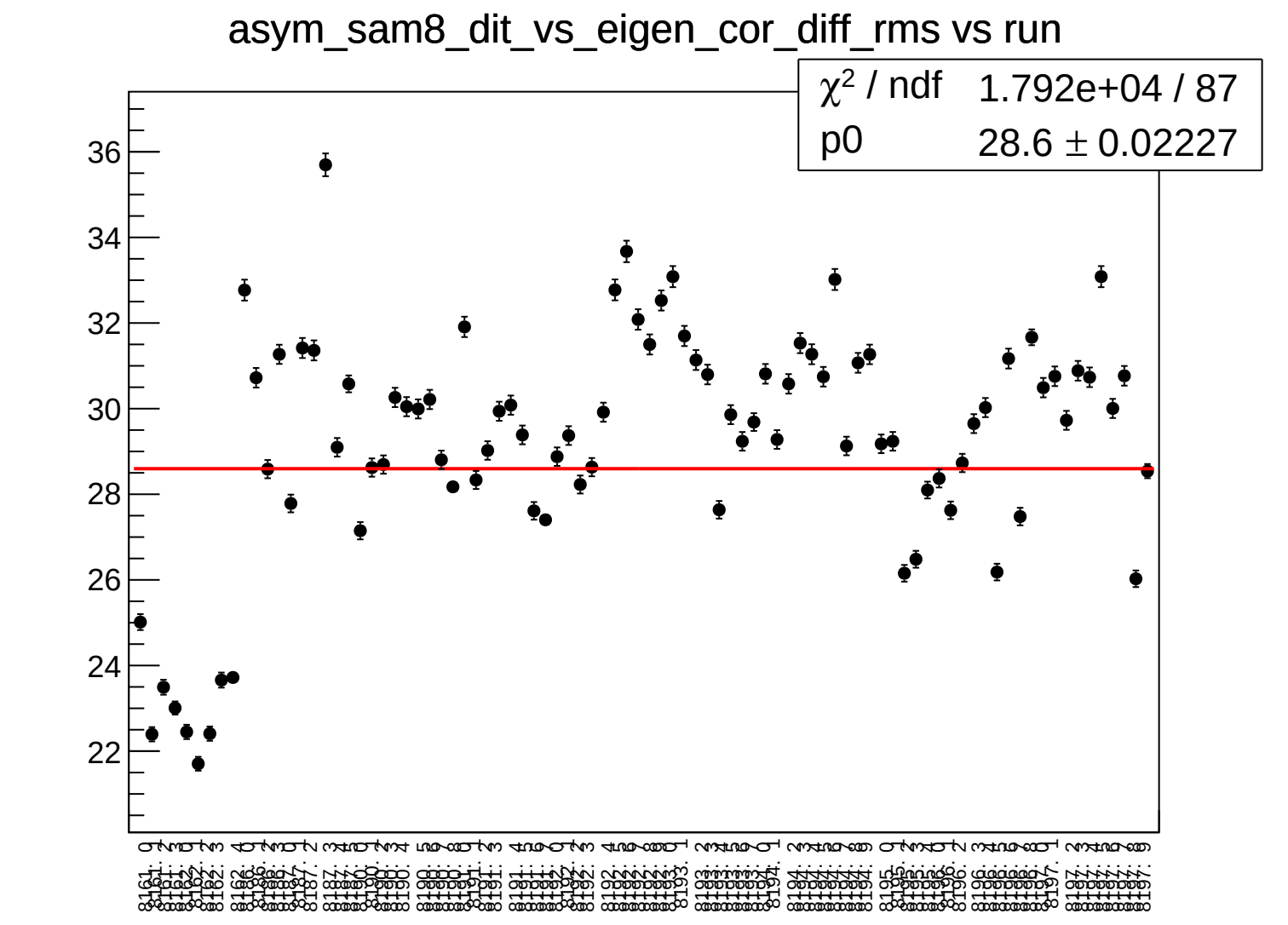

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 82.38 / 87
p0 −0.1623 ± 0.03149
pull
Entries 88
Mean 1.25e+04
Std Dev 0

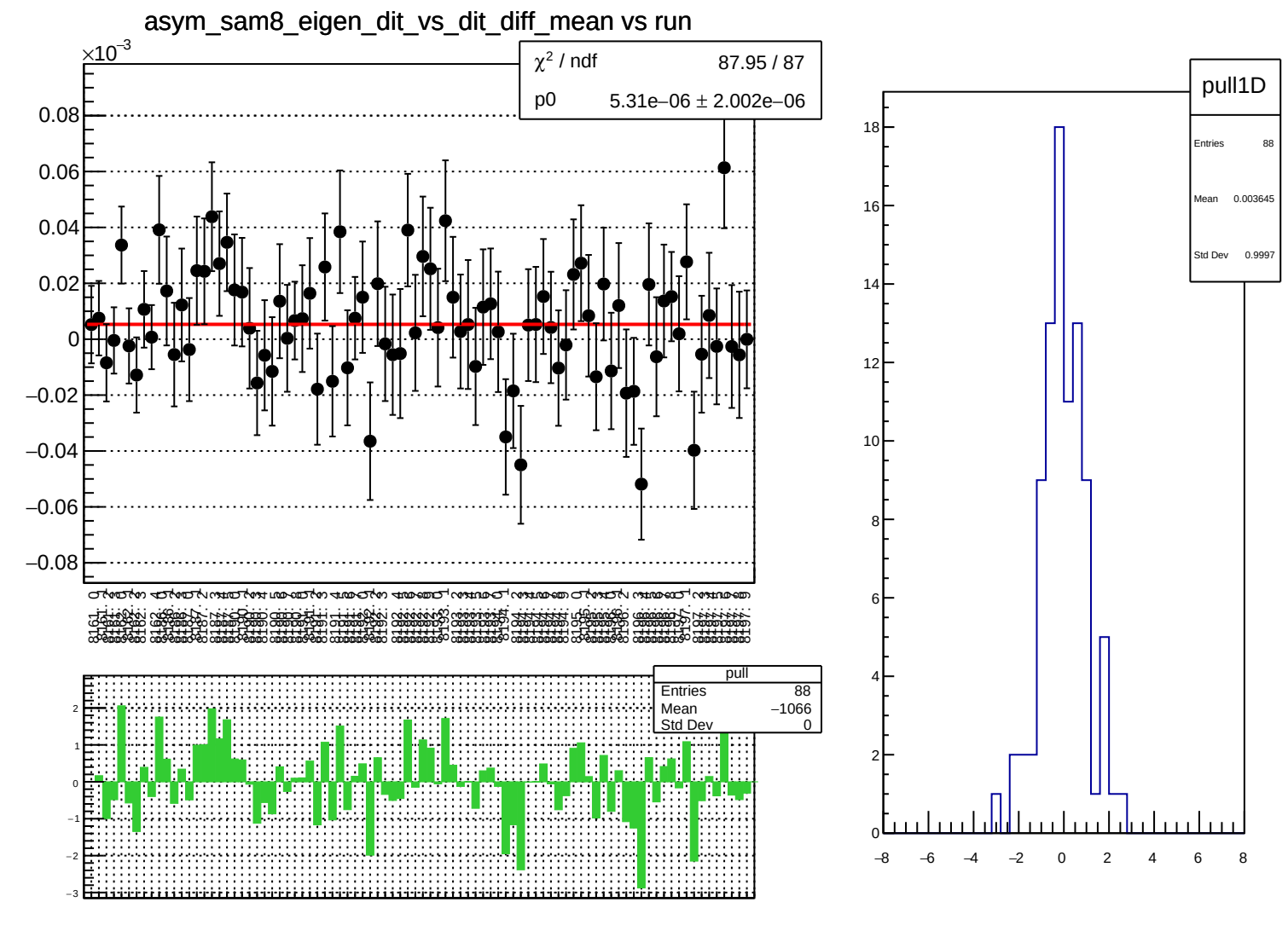

pull1D
Entries 88
Mean 0.0005818
Std Dev 0.9676

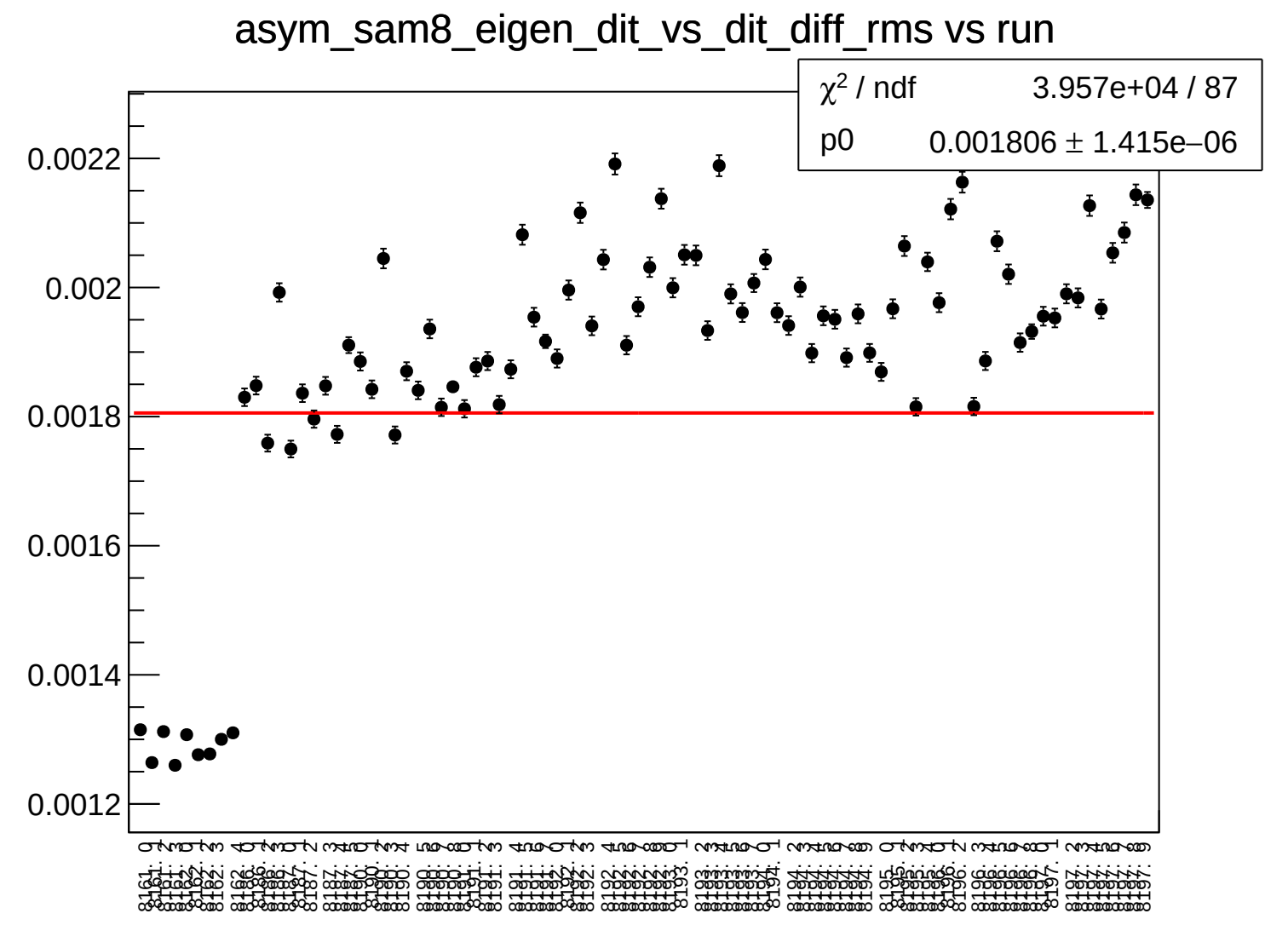

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.792e+04 / 87
p0 28.6 ± 0.02227
36
34
32
30
28
26
24
22

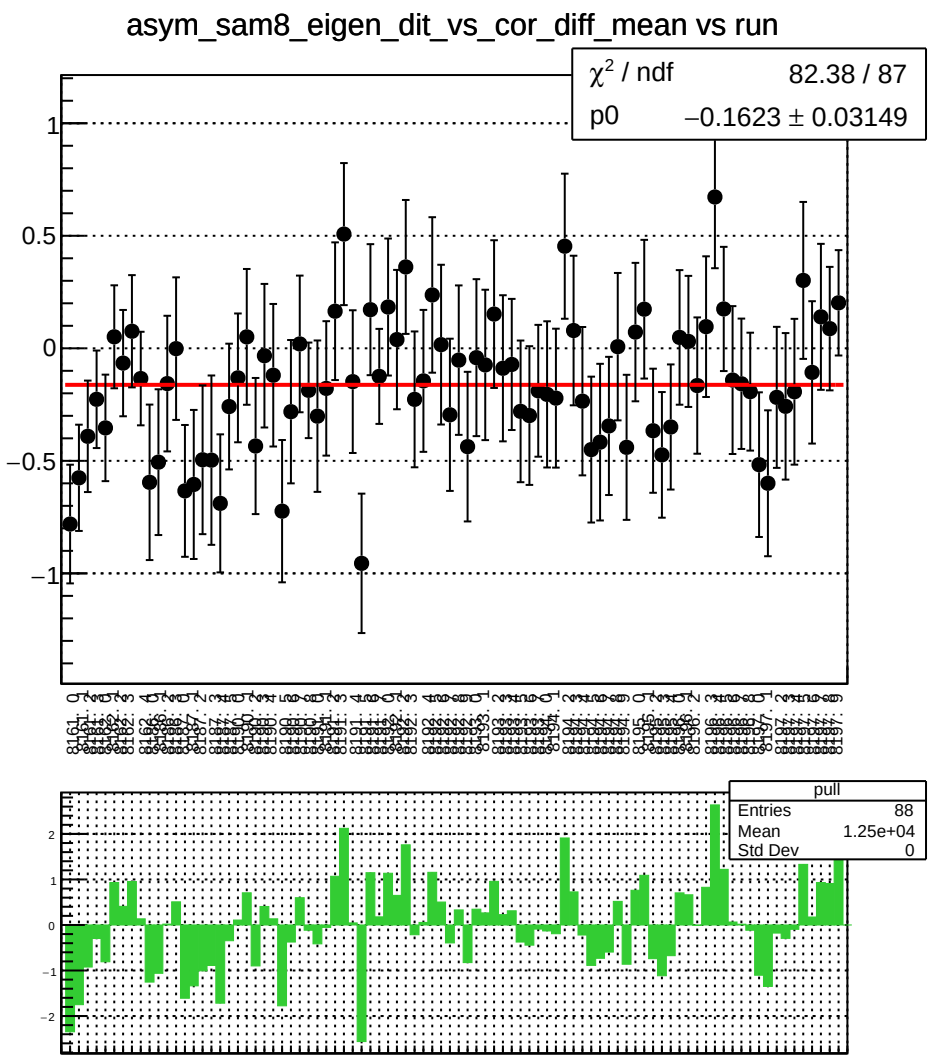

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.38 / 87
p0 −0.1623 ± 0.03149
pull
Entries 88
Mean 1.25e+04
Std Dev 0

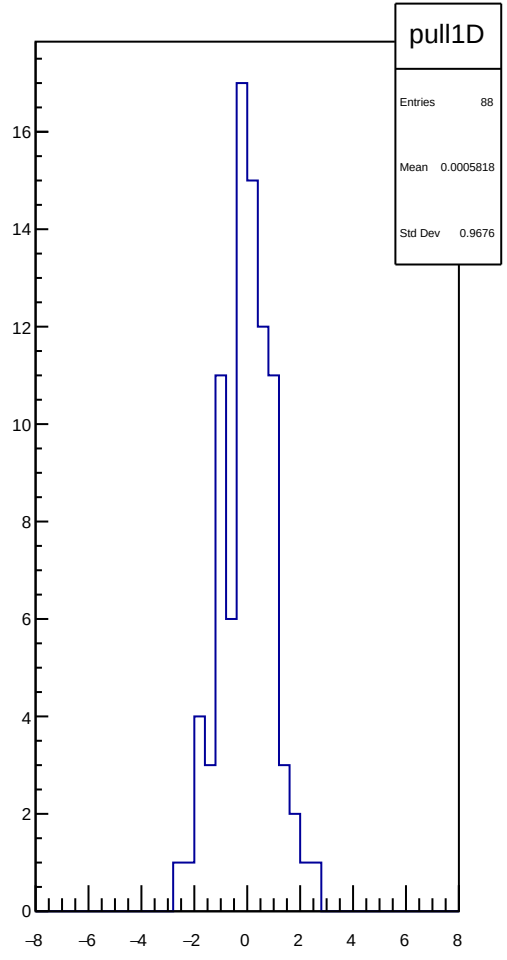

pull1D
Entries 88
Mean 0.0005818
Std Dev 0.9676

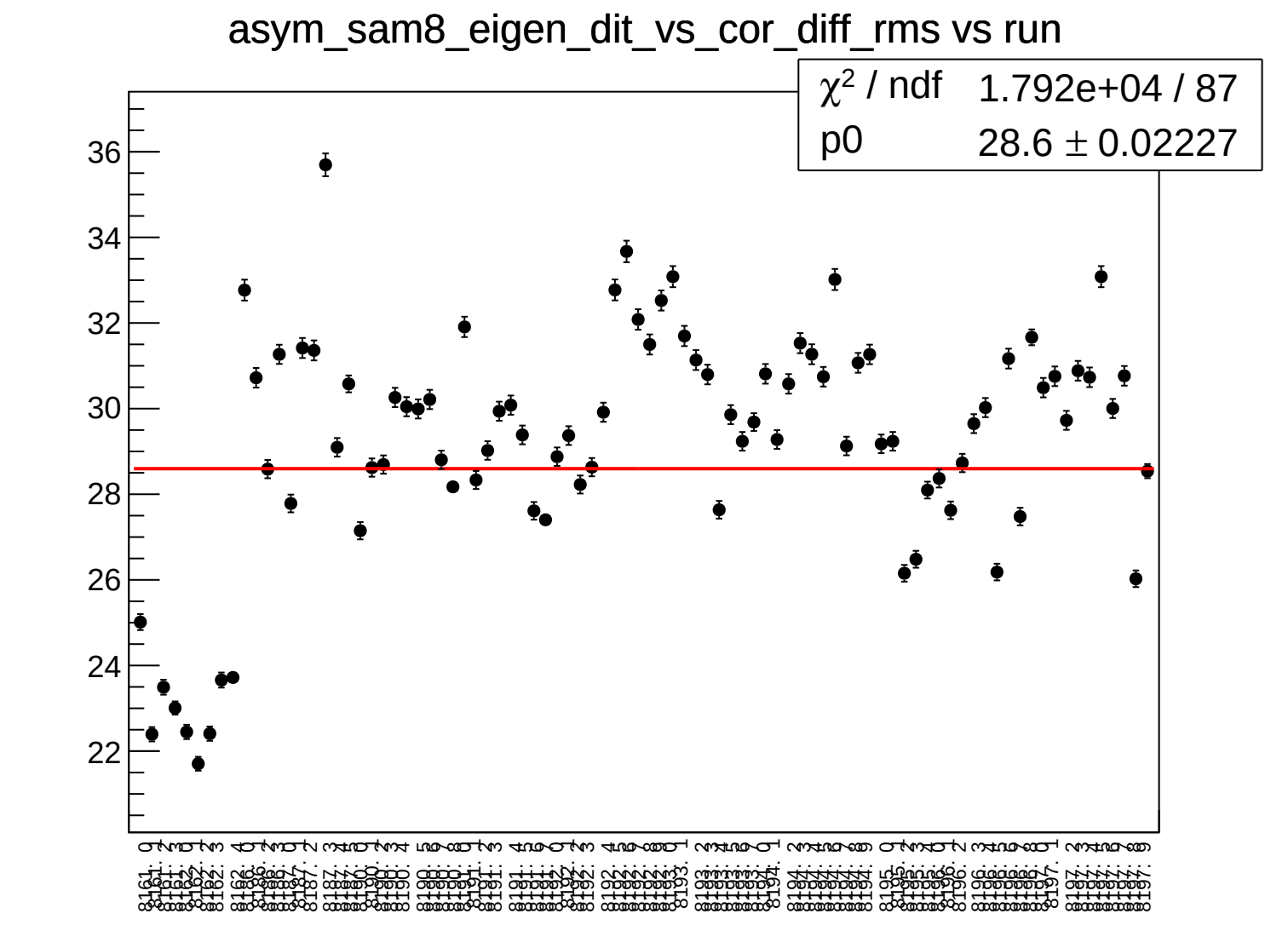

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.792e+04 / 87
p0 28.6 ± 0.02227
36
34
32
30
28
26
24
22

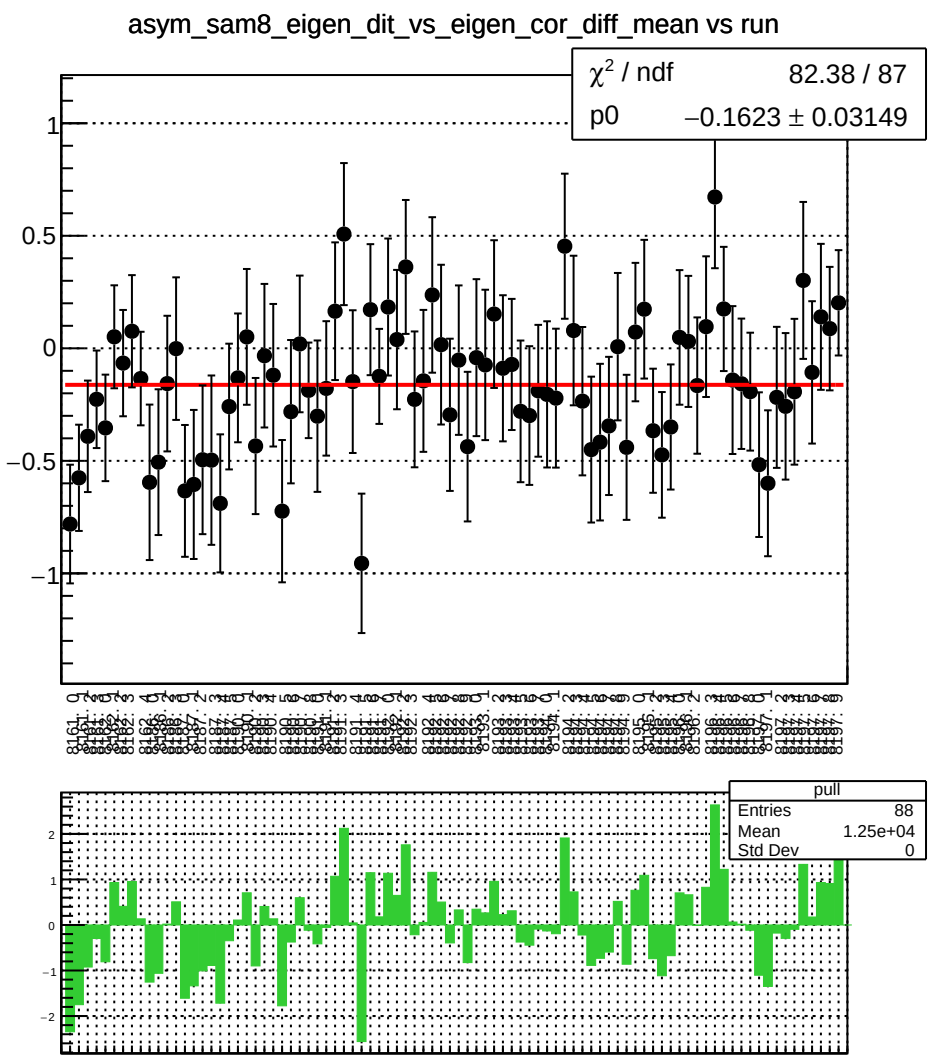

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.95 / 87
p0 5.31e−06 ± 2.002e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean −1066
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.003645
Std Dev 0.9997
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

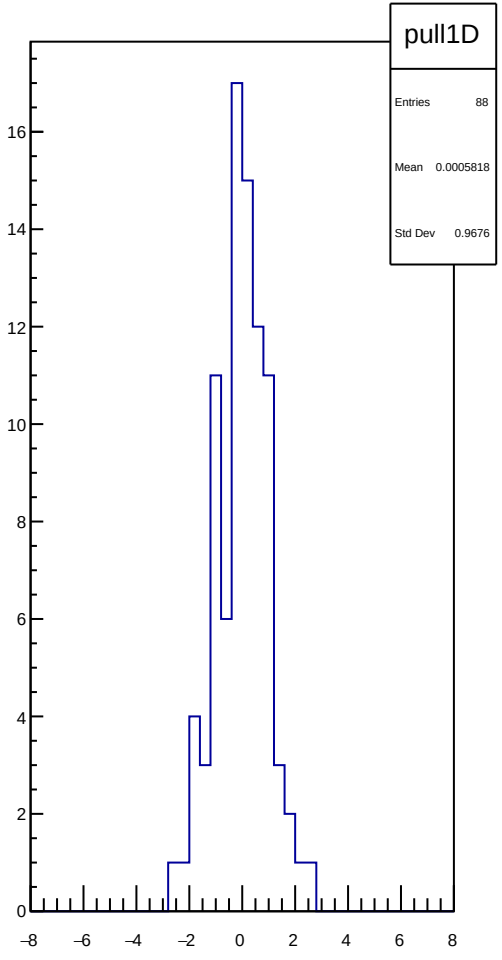

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.957e+04 / 87
p0 0.001806 ± 1.415e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

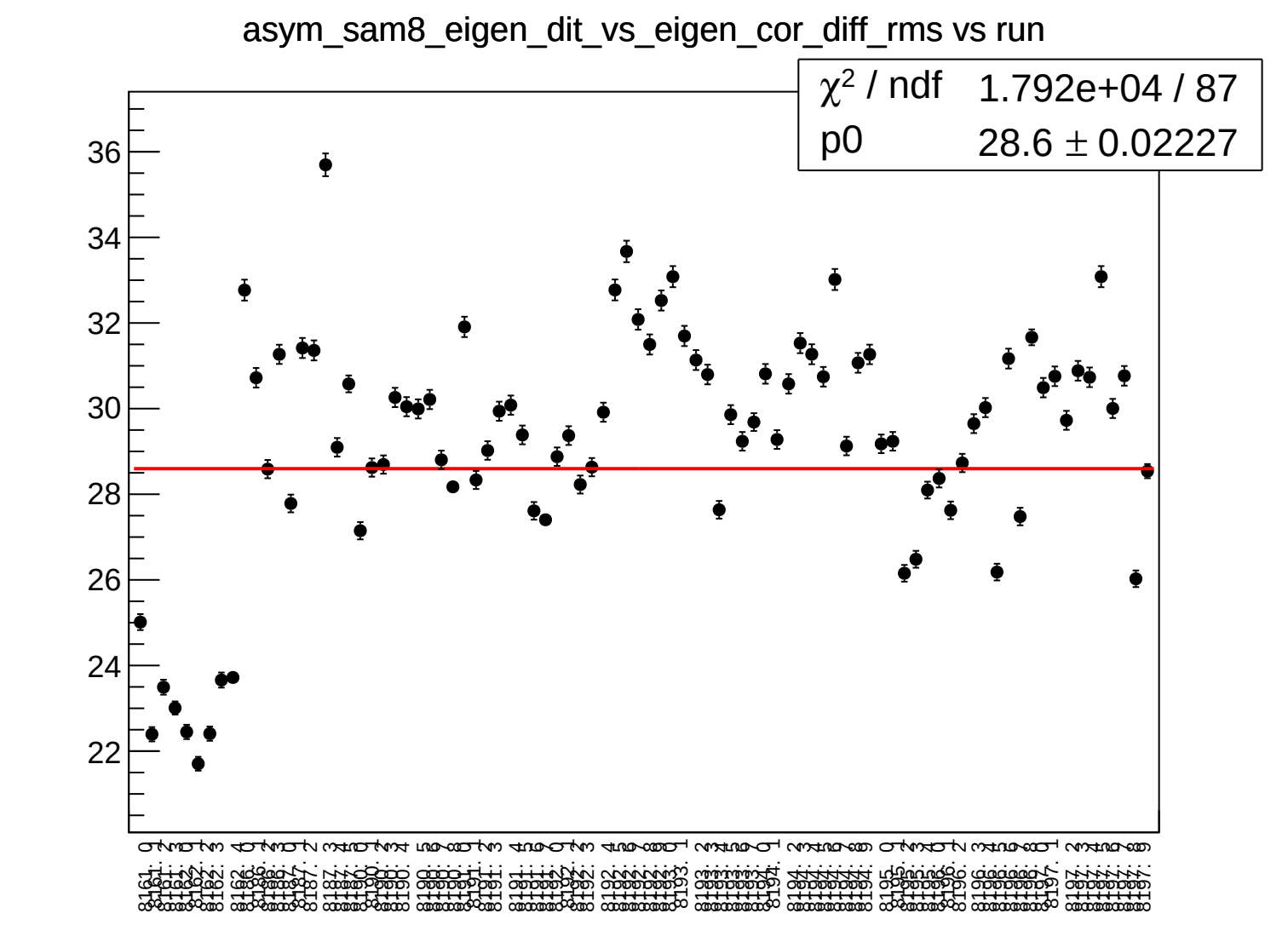

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.38 / 87
p0 −0.1623 ± 0.03149
pull
Entries 88
Mean 1.25e+04
Std Dev 0

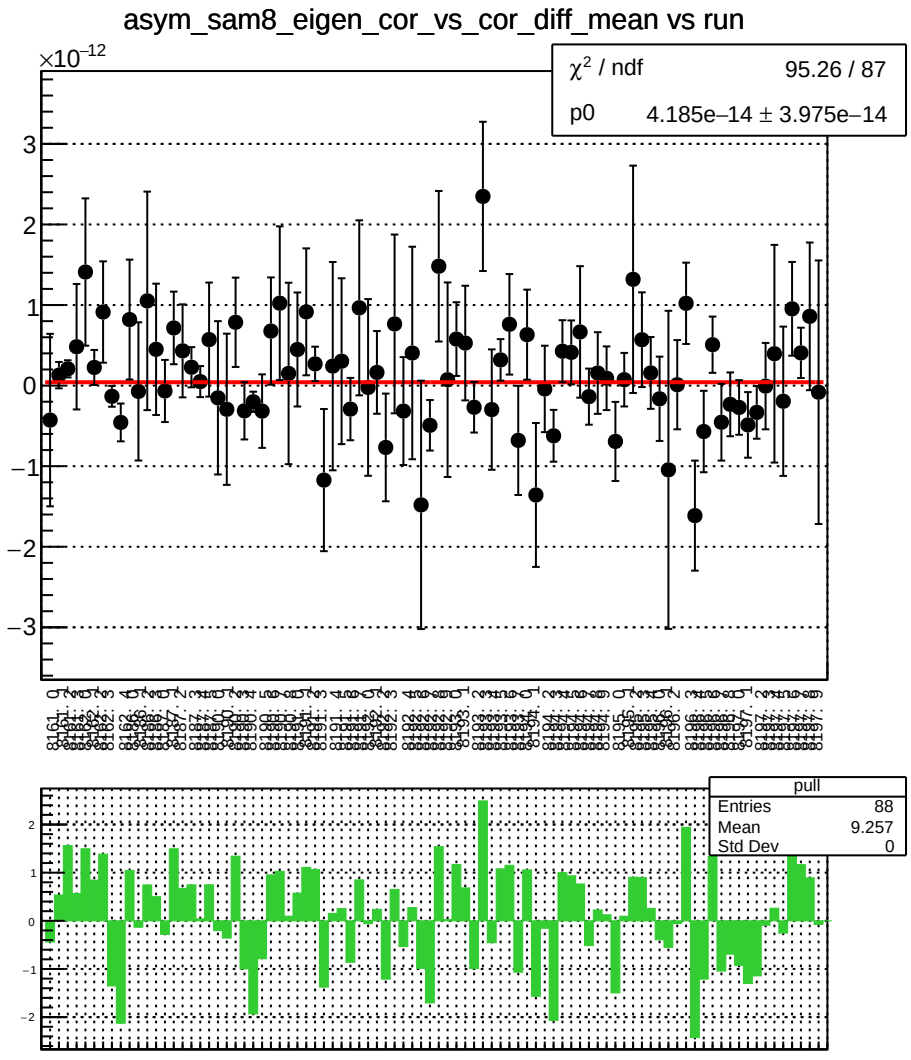

pull1D
Entries 88
Mean 0.0005818
Std Dev 0.9676

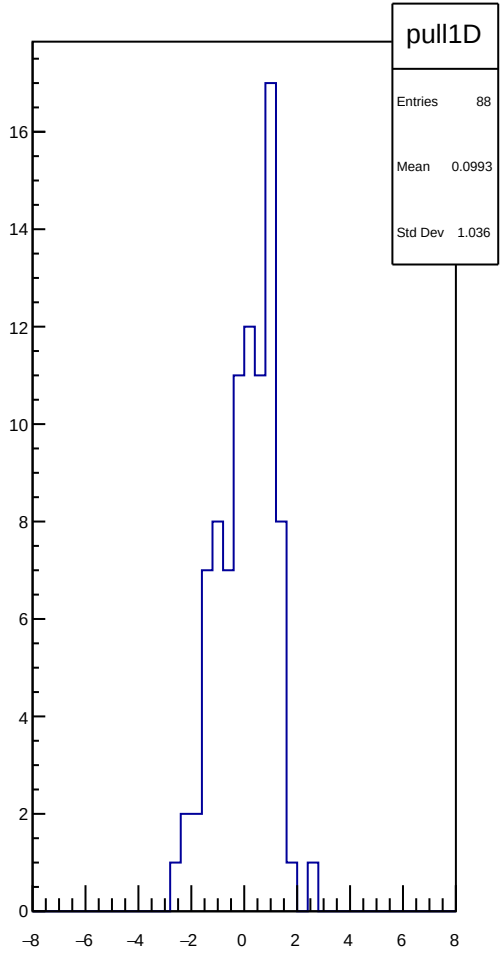

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.792e+04 / 87
p0 28.6 ± 0.02227
36
34
32
30
28
26
24
22

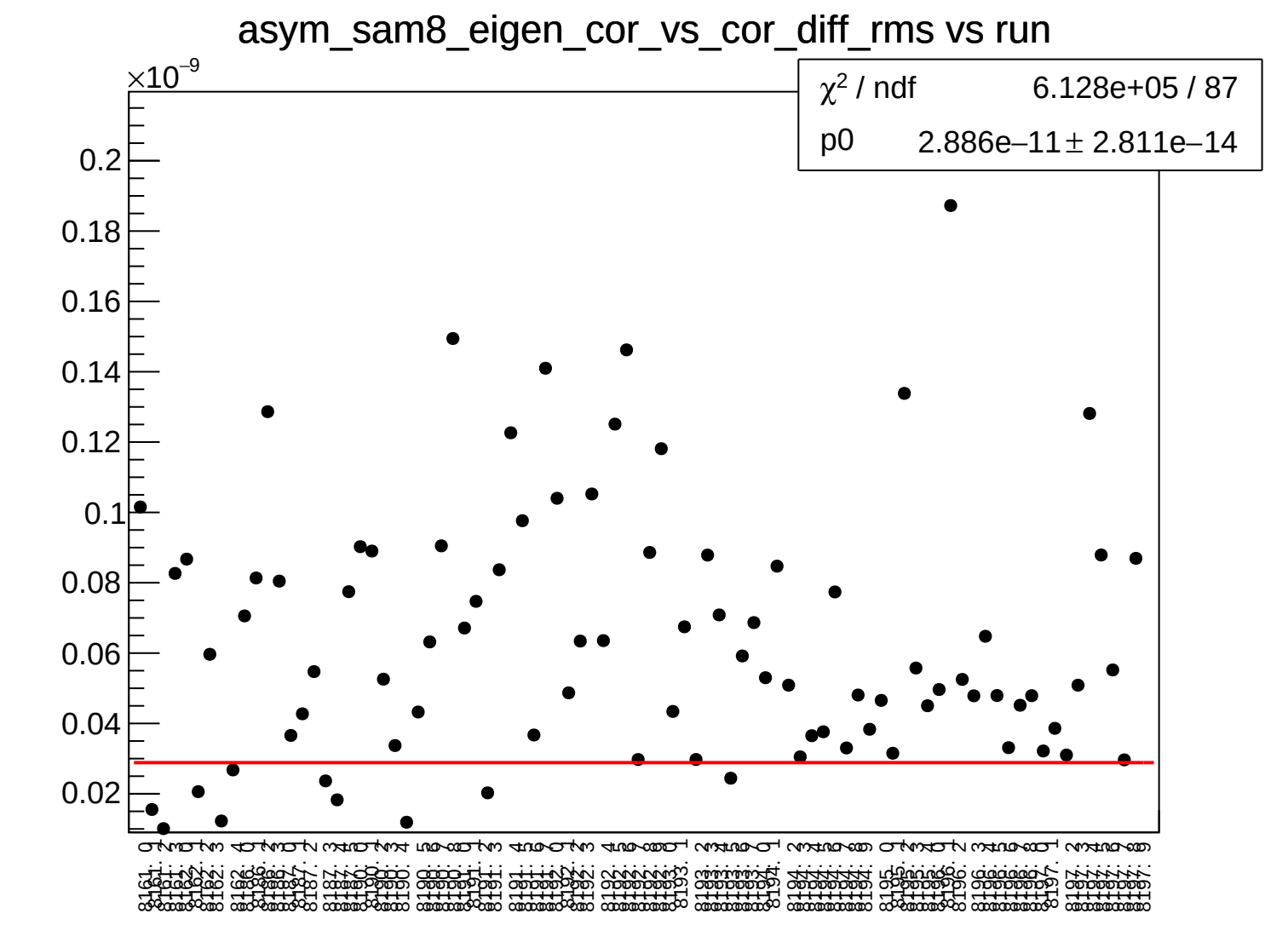

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.38 / 87
p0 −0.1623 ± 0.03149
pull
Entries 88
Mean 1.25e+04
Std Dev 0

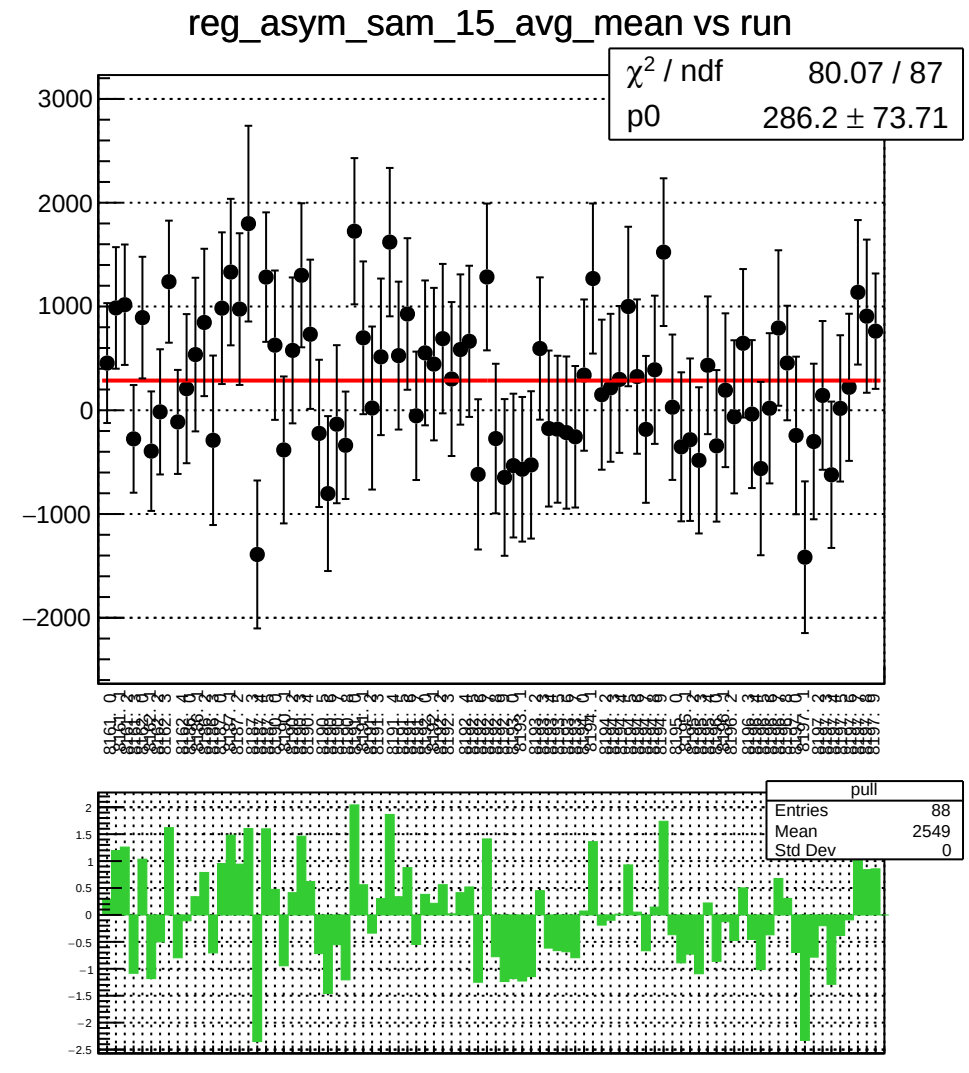

pull1D
Entries 88
Mean 0.0005818
Std Dev 0.9676

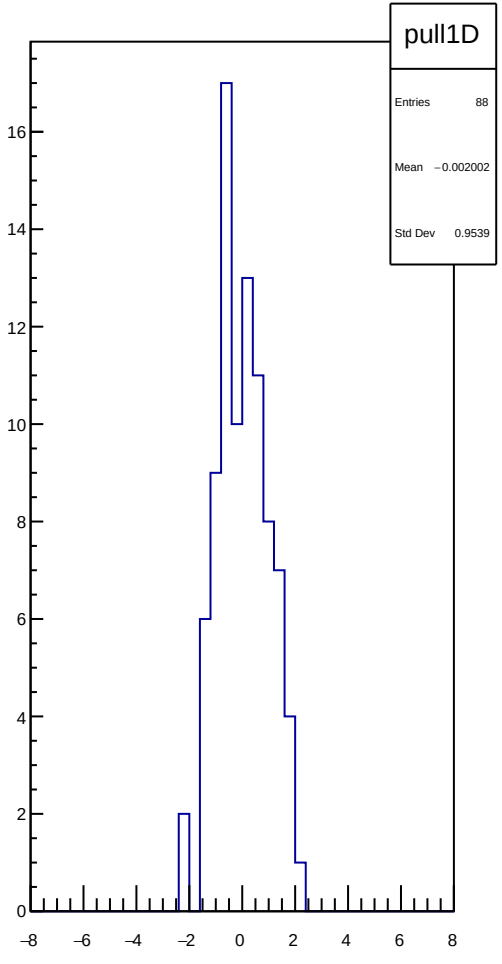

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.792e+04 / 87
p0 28.6 ± 0.02227
36
34
32
30
28
26
24
22

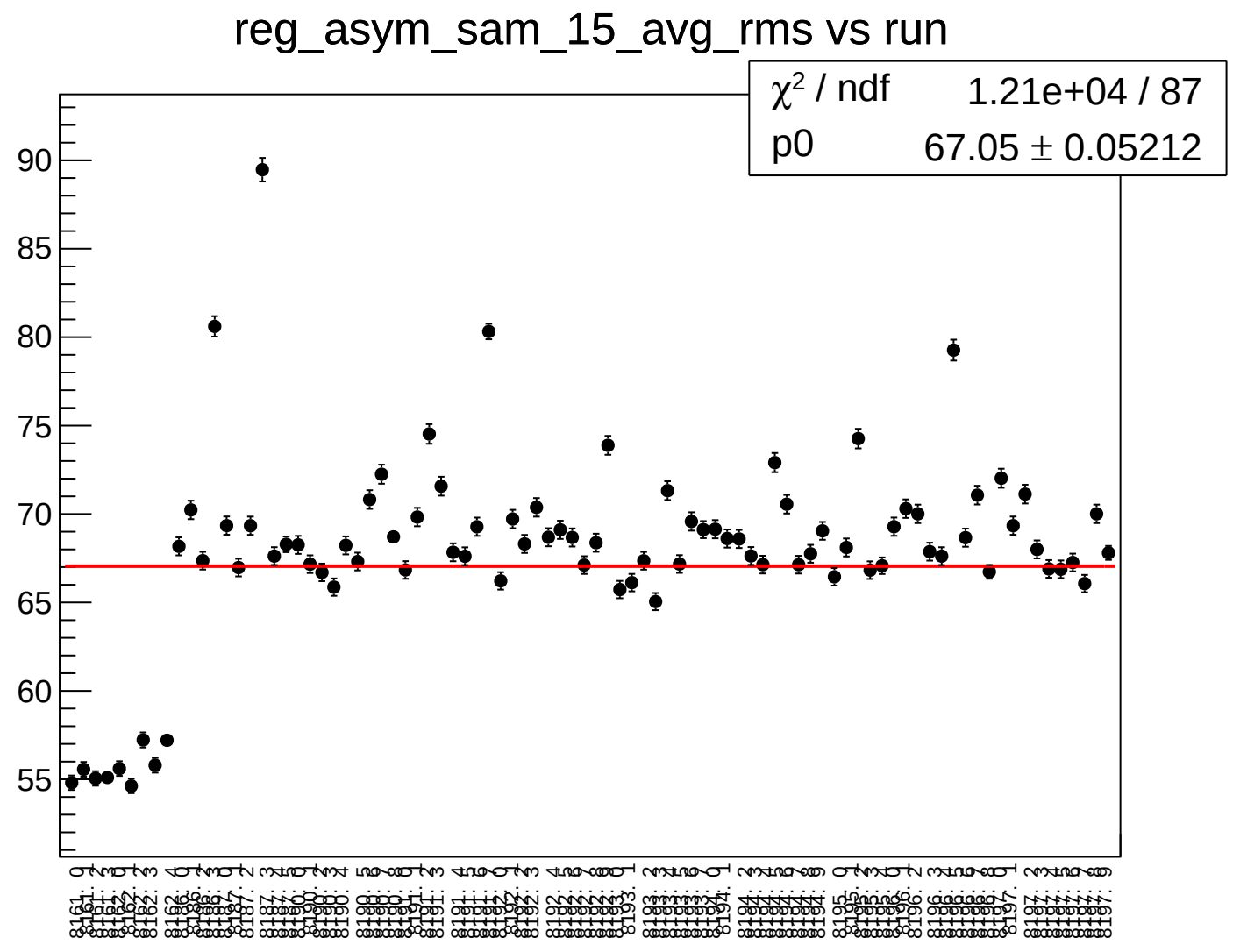

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.26 / 87
p0 4.185e−14 ± 3.975e−14
pull
Entries 88
Mean 9.257
Std Dev 0

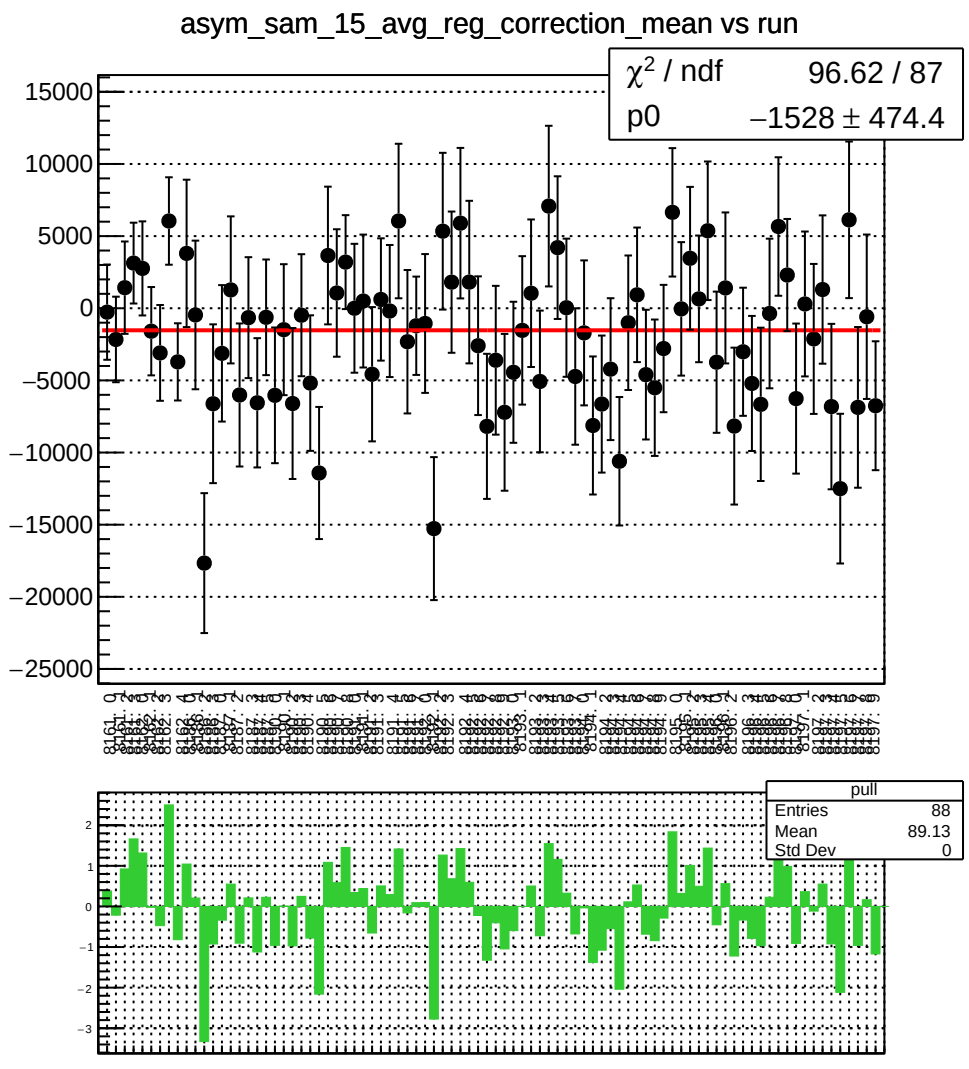

pull1D
Entries 88
Mean 0.0993
Std Dev 1.036

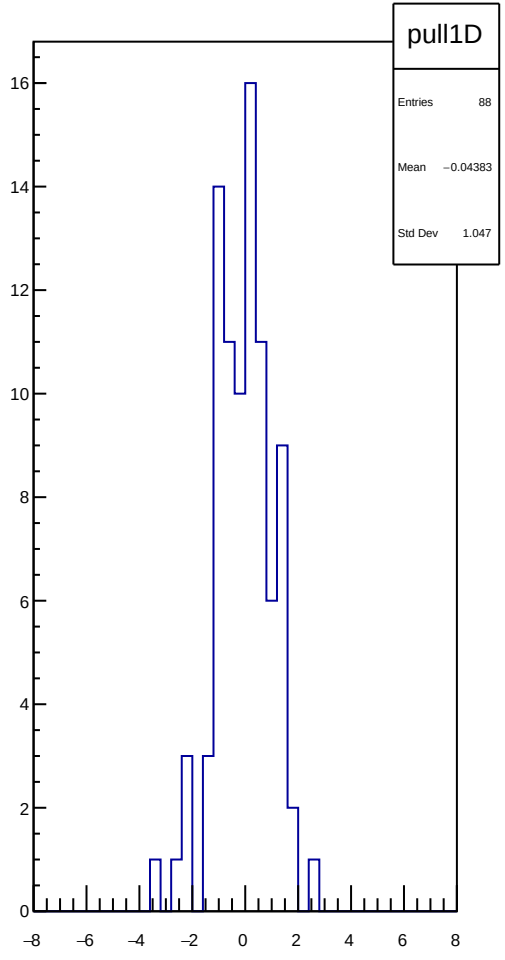

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.128e+05 / 87
p0 2.886e−11 ± 2.811e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

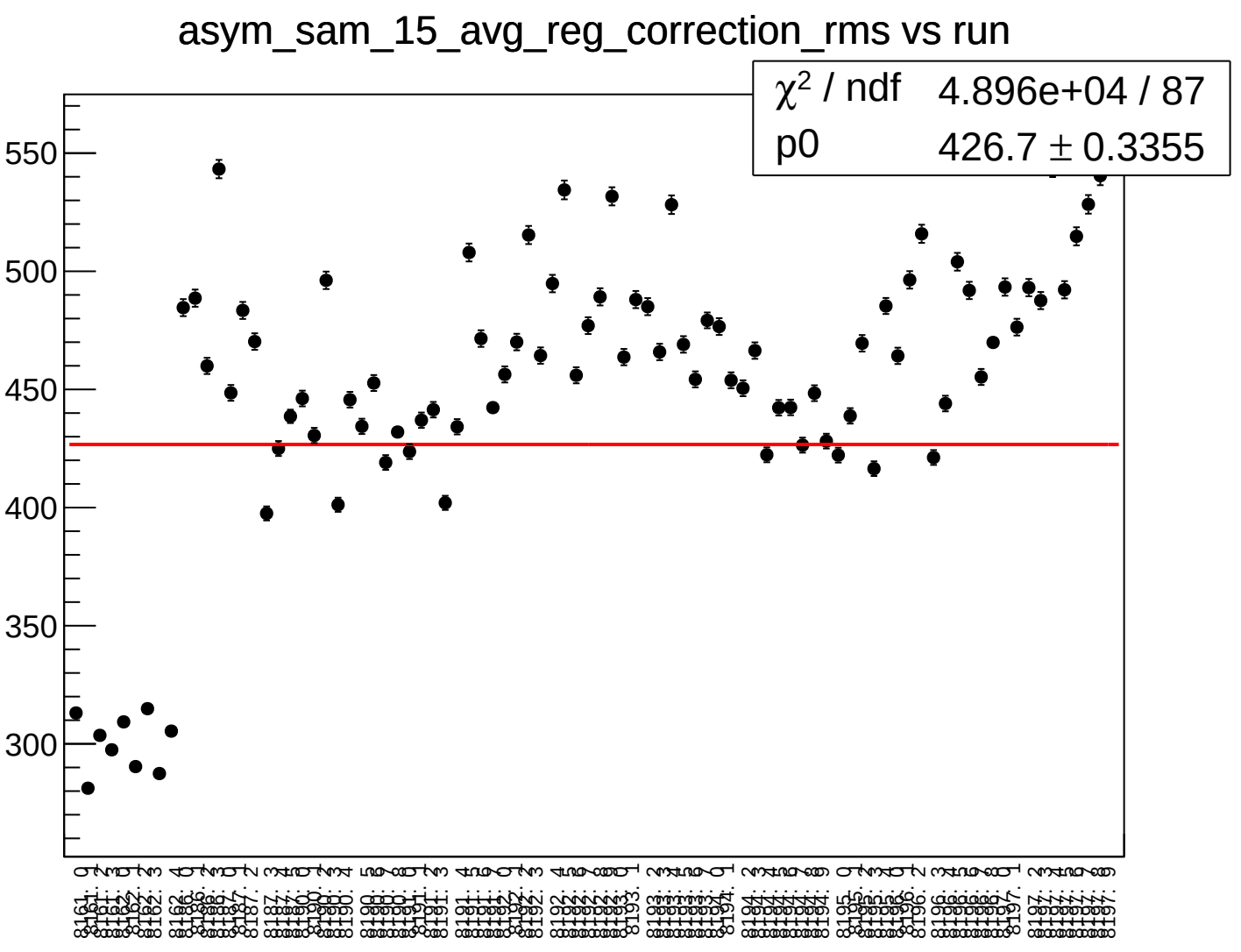

reg_asym_sam_15_avg_mean vs run
χ² / ndf 80.07 / 87
p0 286.2 ± 73.71
pull
Entries 88
Mean 2549
Std Dev 0

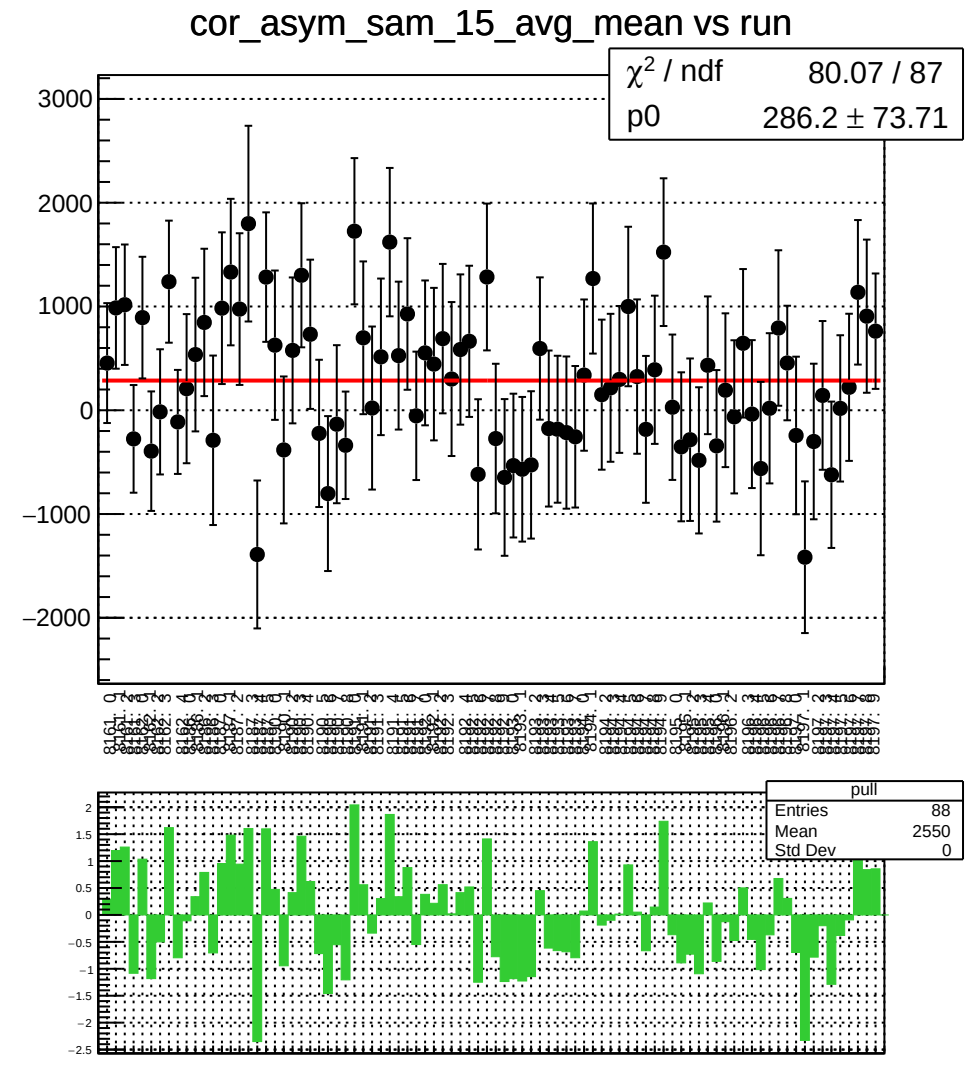

pull1D
Entries 88
Mean −0.002002
Std Dev 0.9539

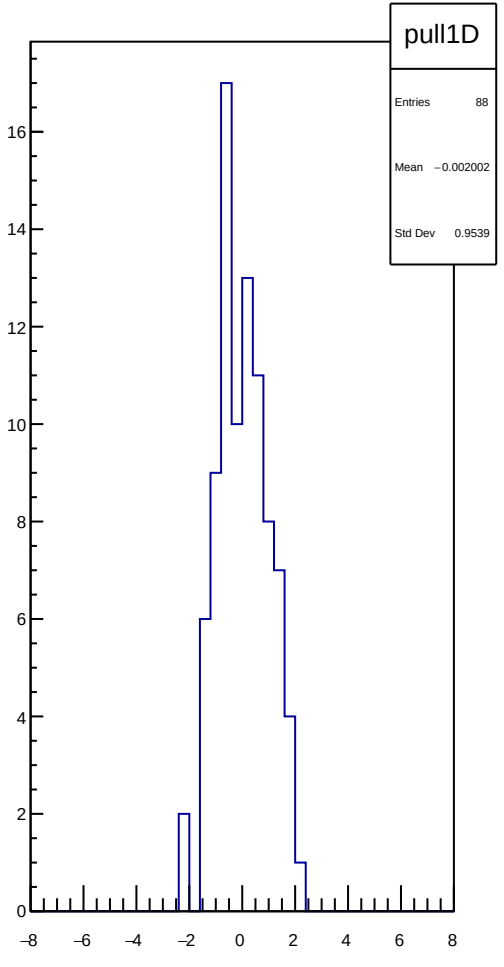

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.21e+04 / 87
p0 67.05 ± 0.05212
90
85
80
75
70
65
60
55

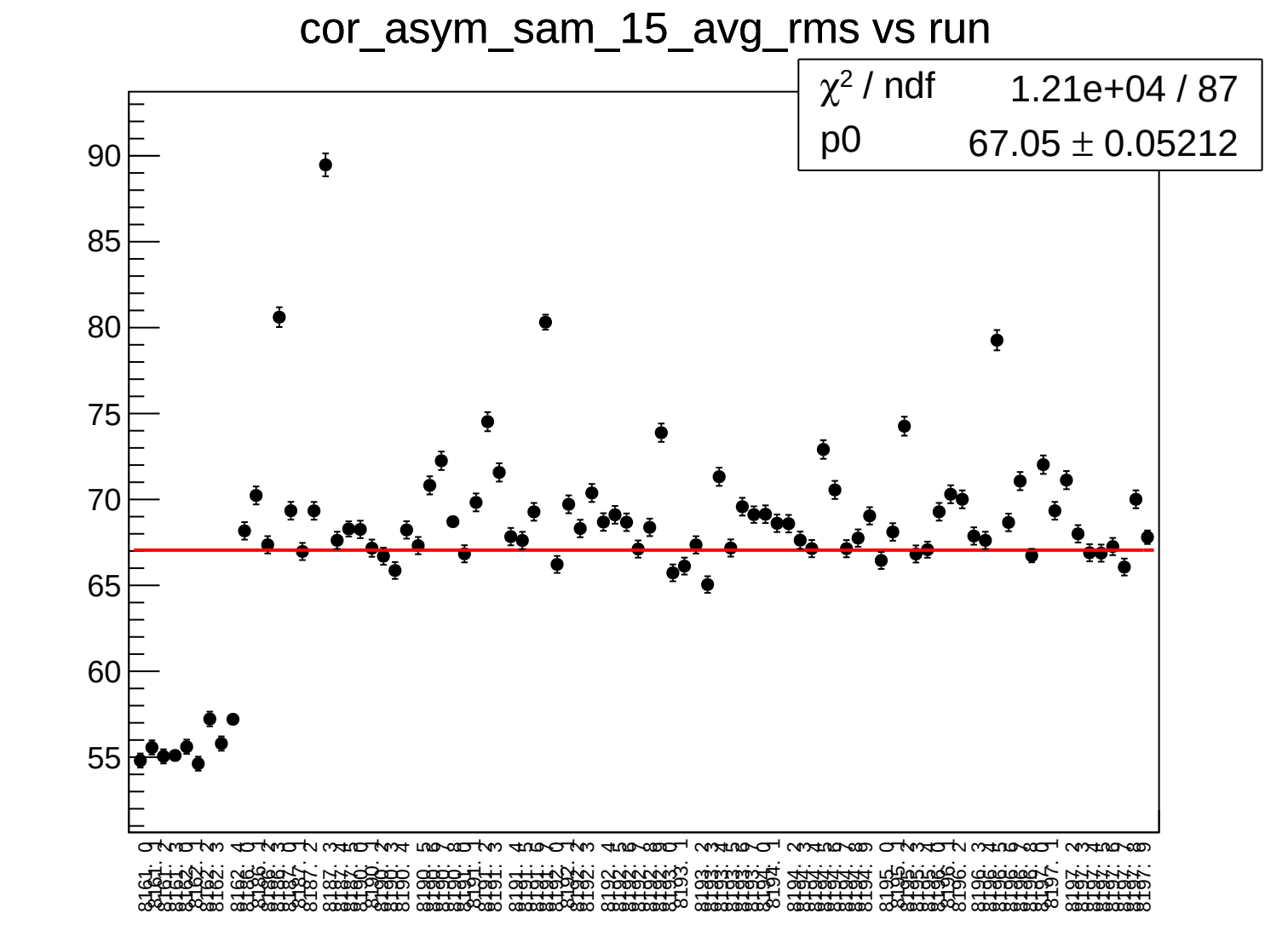

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 96.62 / 87
p0 −1528 ± 474.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 89.13
Std Dev 0
2
1
0
−1
−2
−3

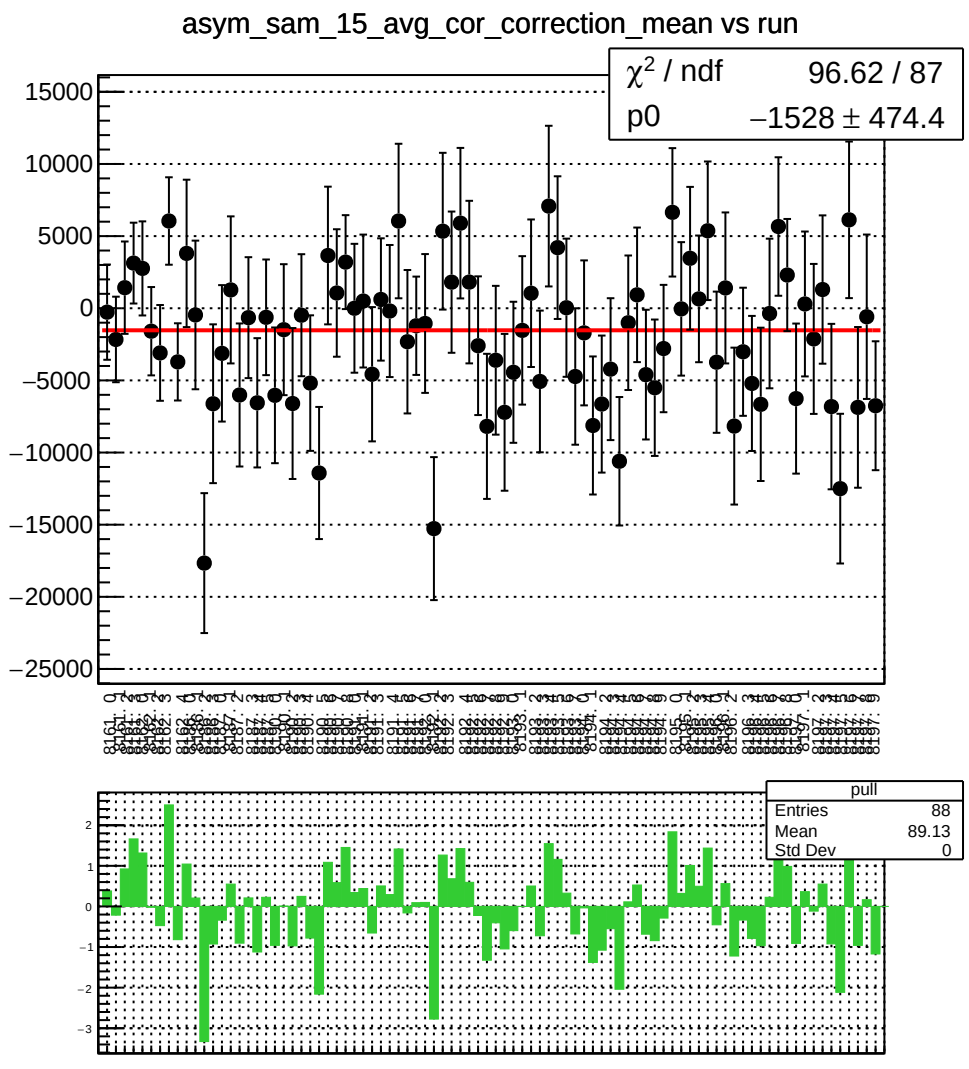

pull1D
Entries 88
Mean −0.04383
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

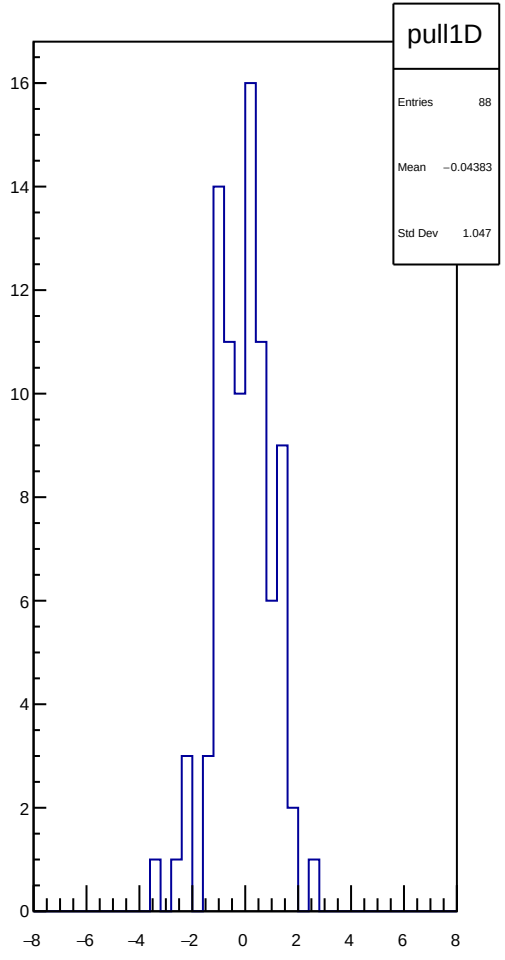

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 4.896e+04 / 87
p0 426.7 ± 0.3355
550
500
450
400
350
300

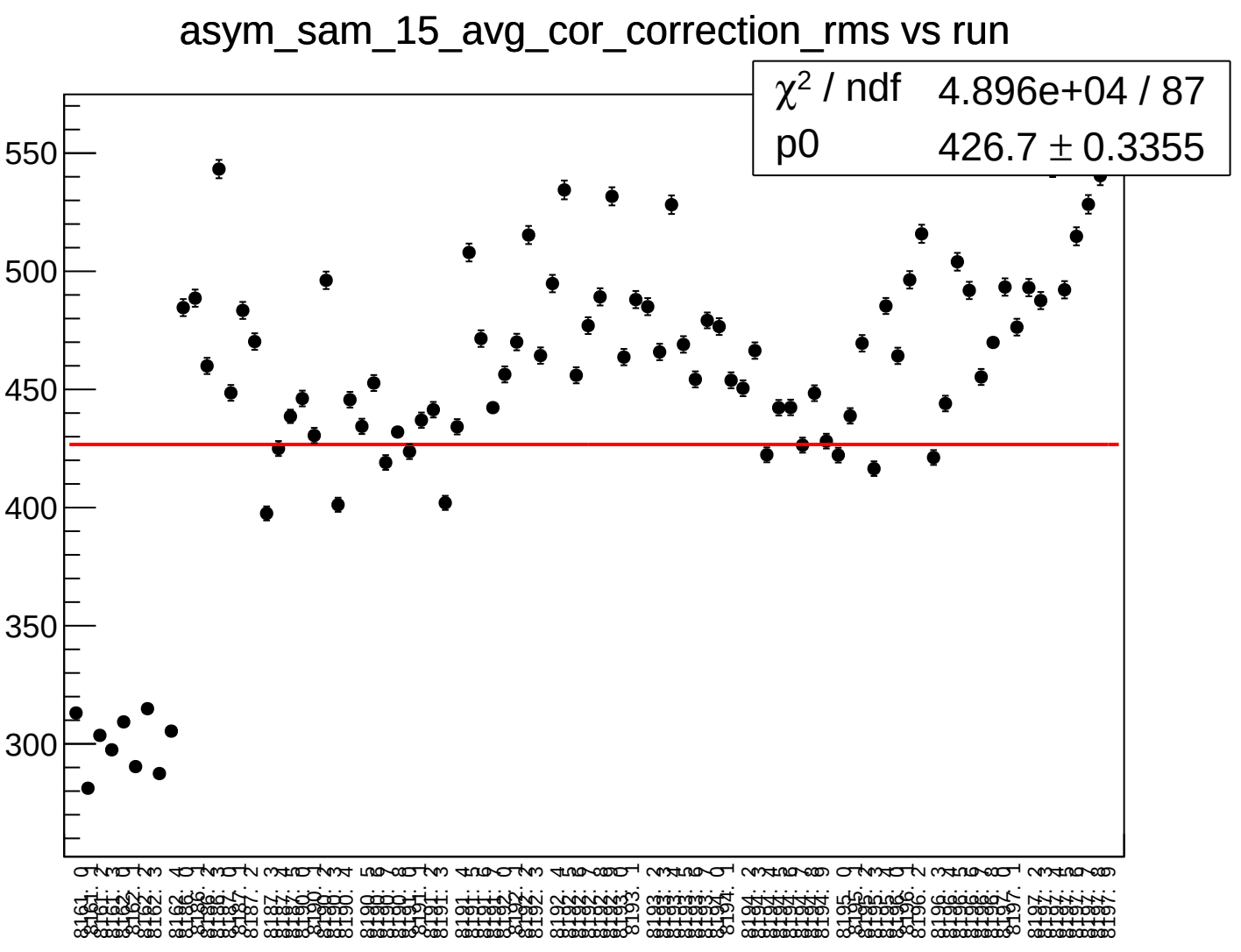

cor_asym_sam_15_avg_mean vs run
χ² / ndf 80.07 / 87
p0 286.2 ± 73.71
pull
Entries 88
Mean 2550
Std Dev 0

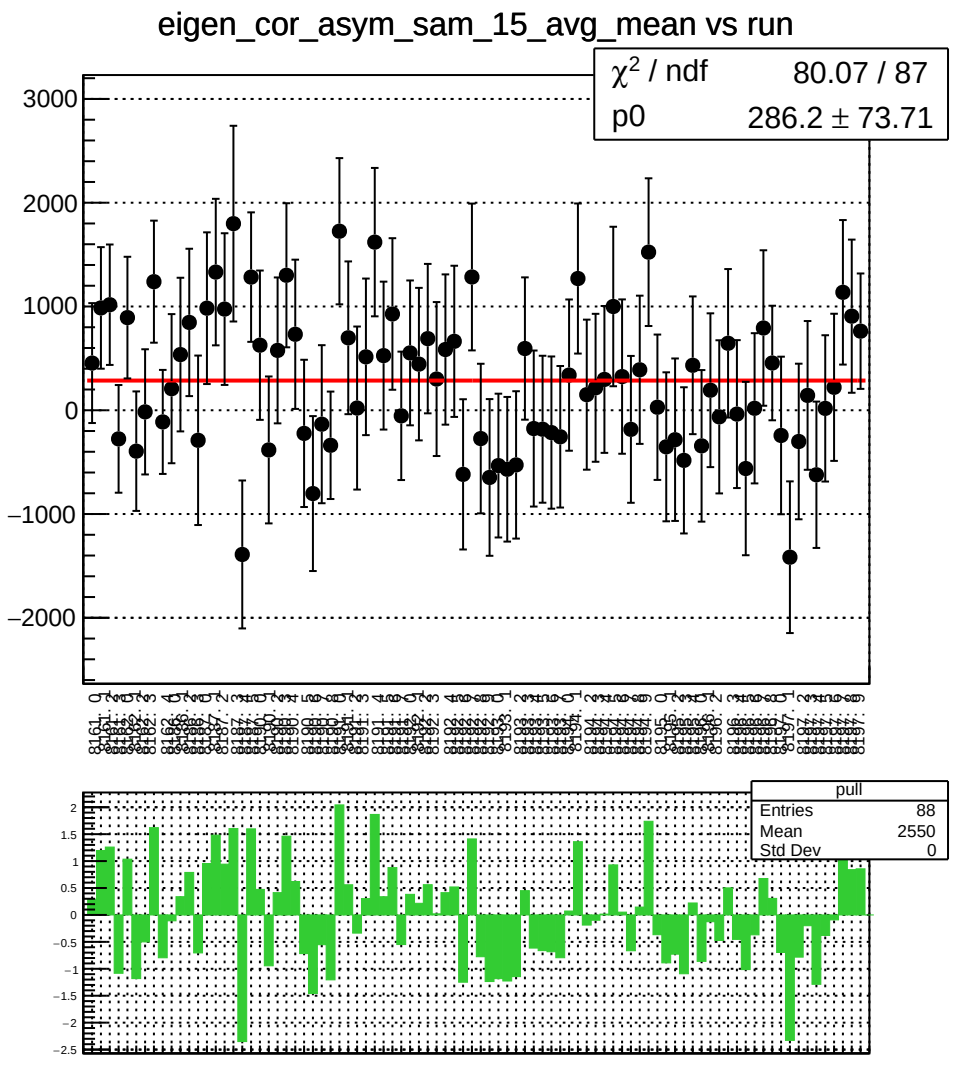

pull1D
Entries 88
Mean −0.002002
Std Dev 0.9539

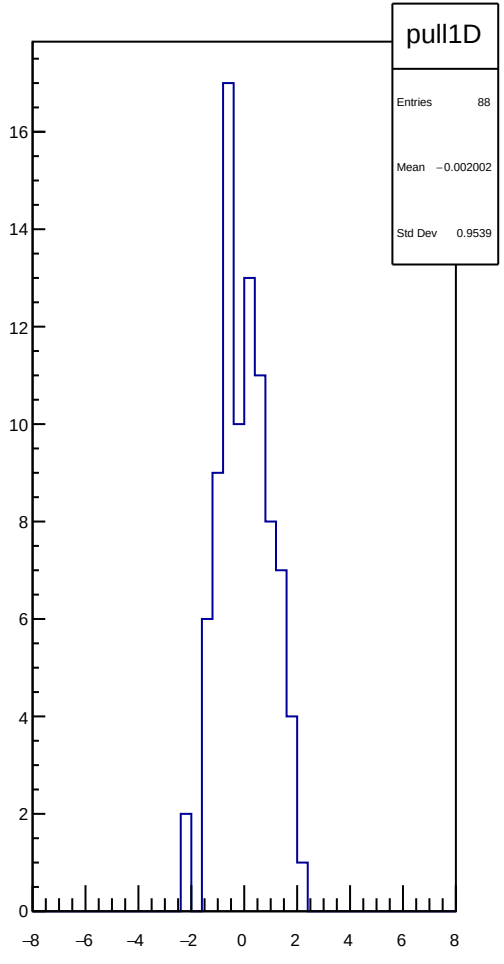

cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.21e+04 / 87
p0 67.05 ± 0.05212
90
85
80
75
70
65
60
55


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 96.62 / 87
p0 −1528 ± 474.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 89.13
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean −0.04383
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 4.896e+04 / 87
p0 426.7 ± 0.3355
550
500
450
400
350
300


eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 80.07 / 87
p0 286.2 ± 73.71
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 2550
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean −0.002002
Std Dev 0.9539
16
14
12
10
8
6
4
2
0
−8
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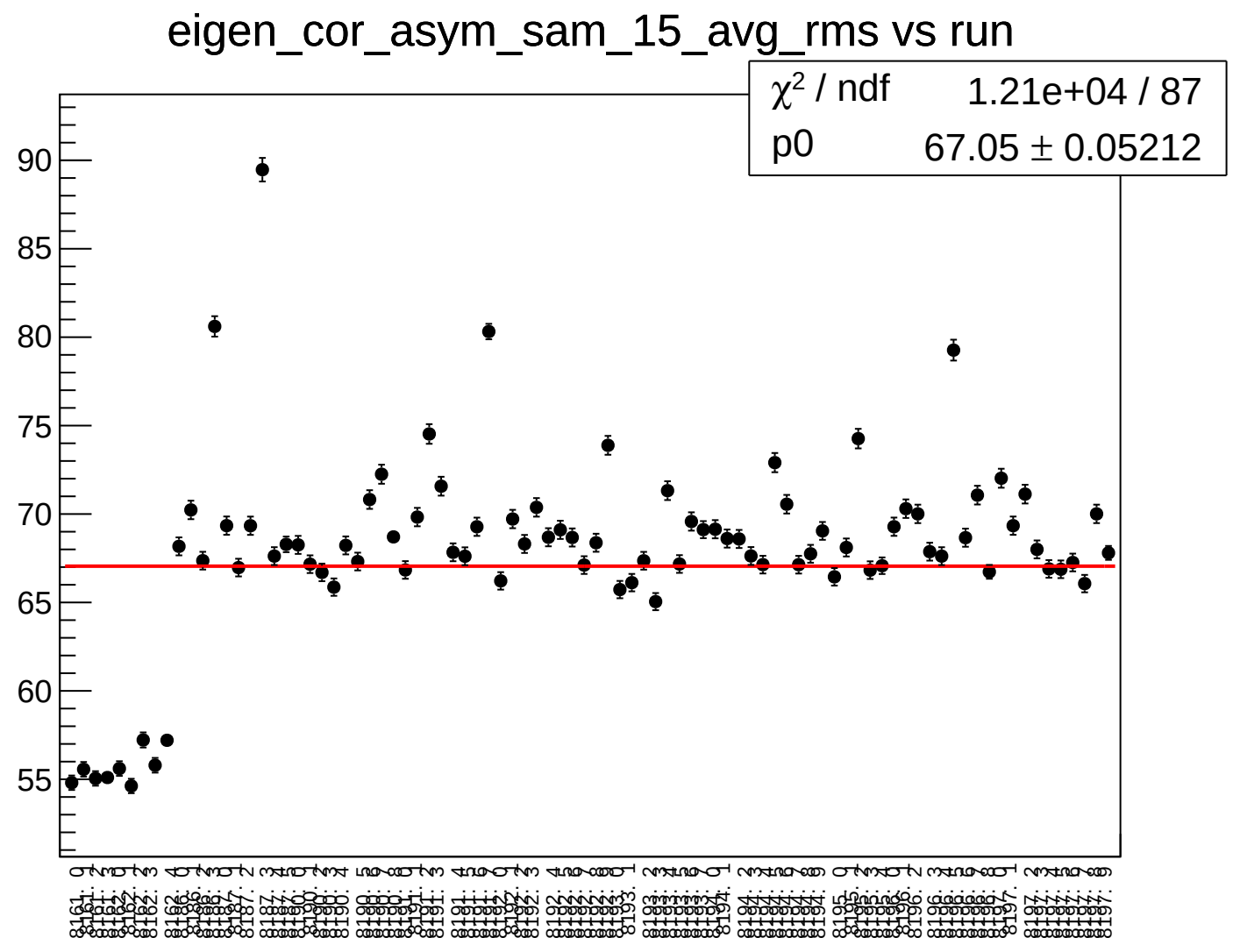
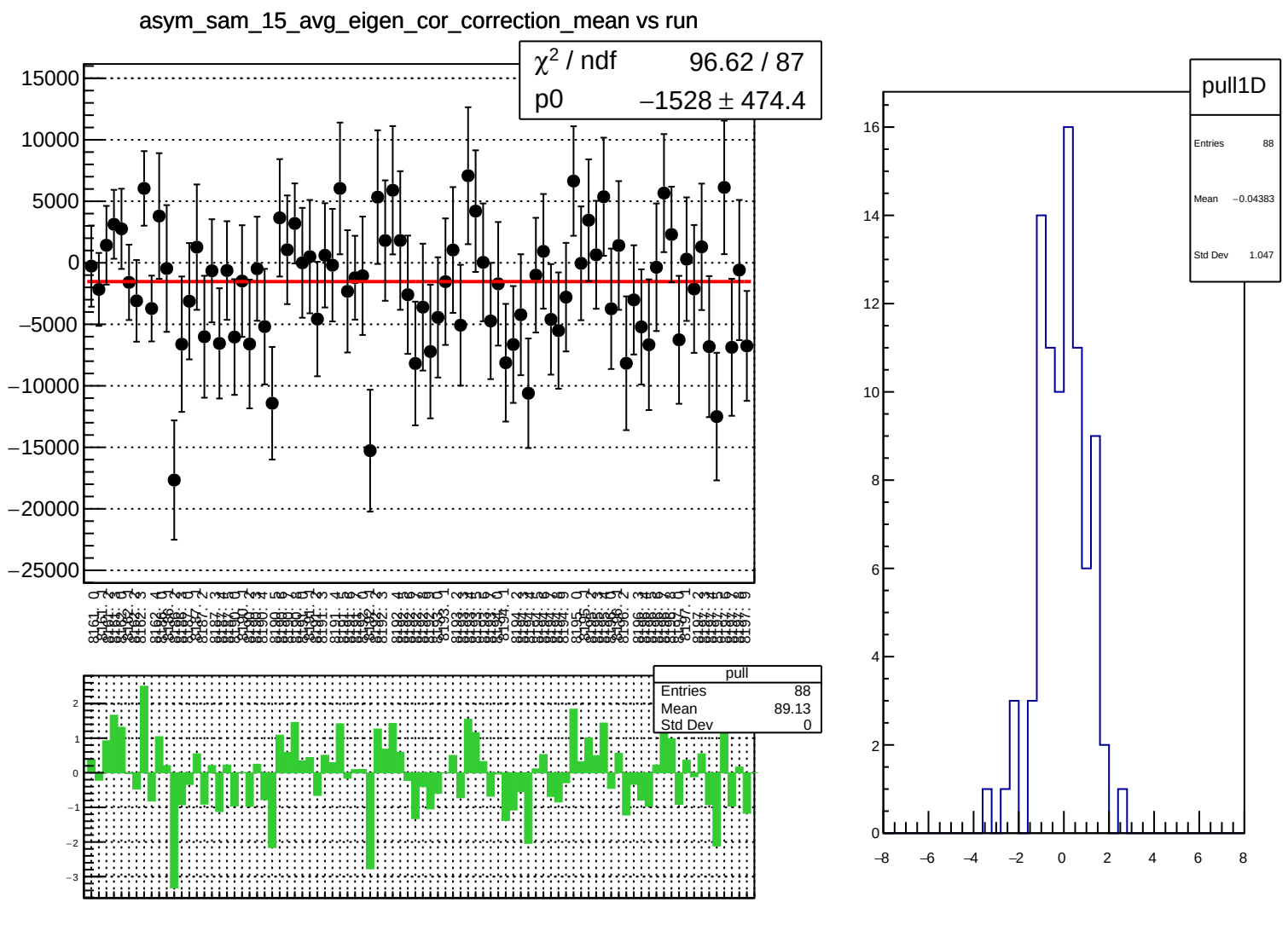
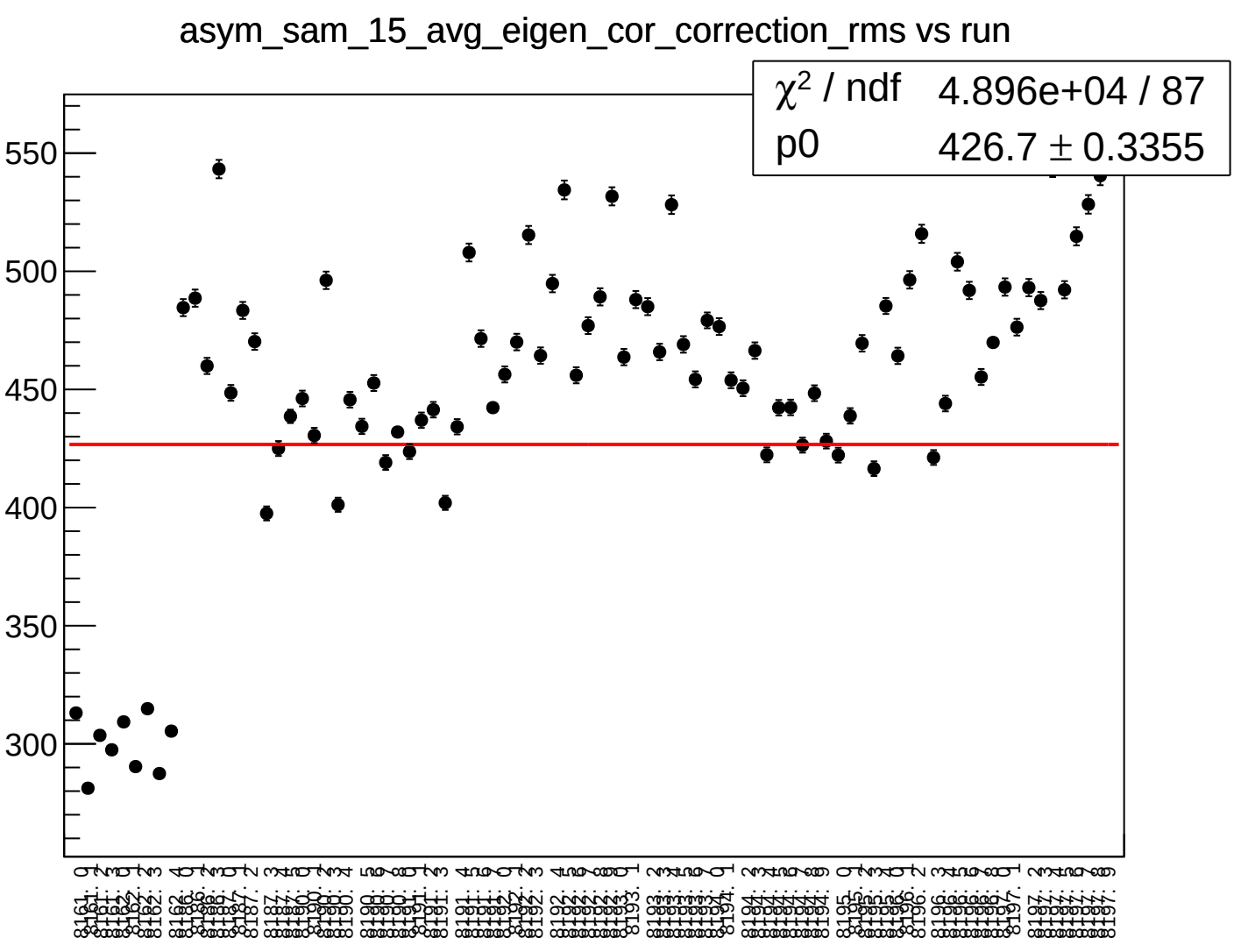
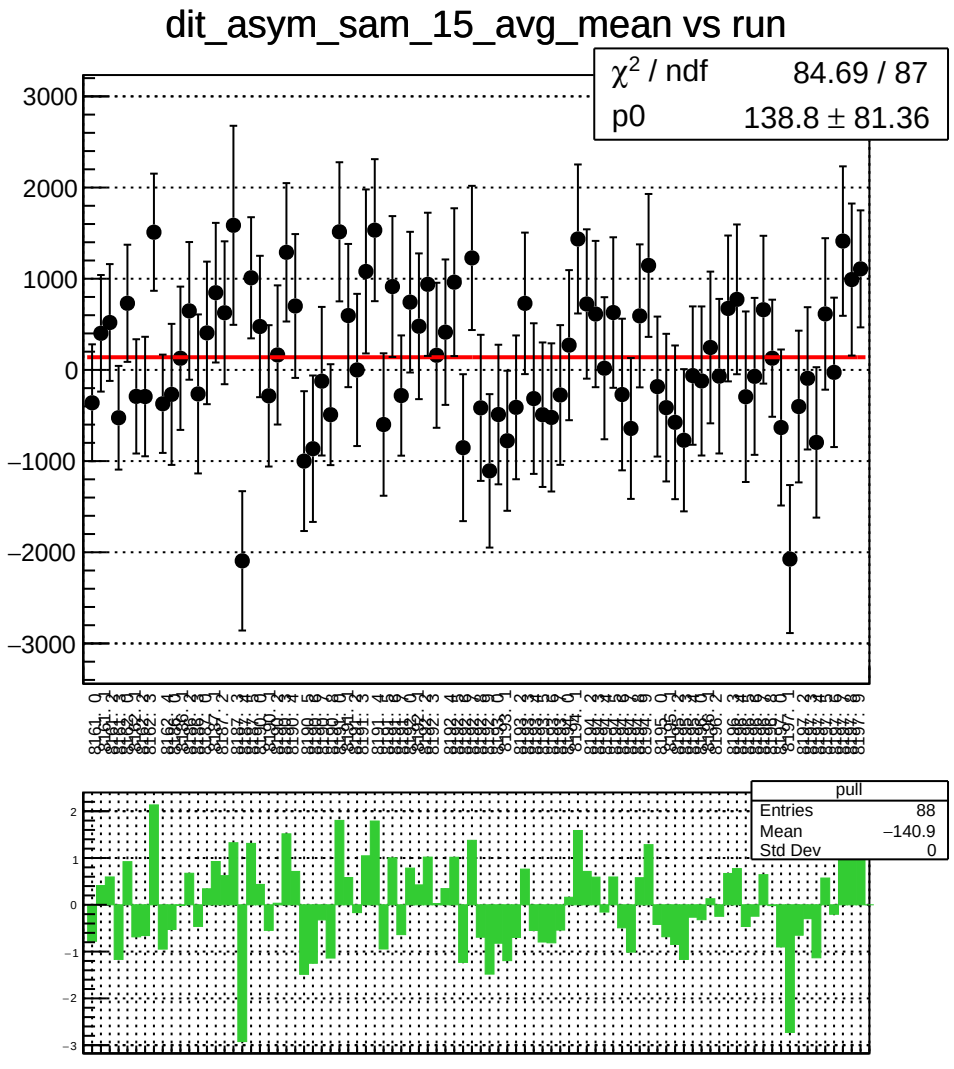
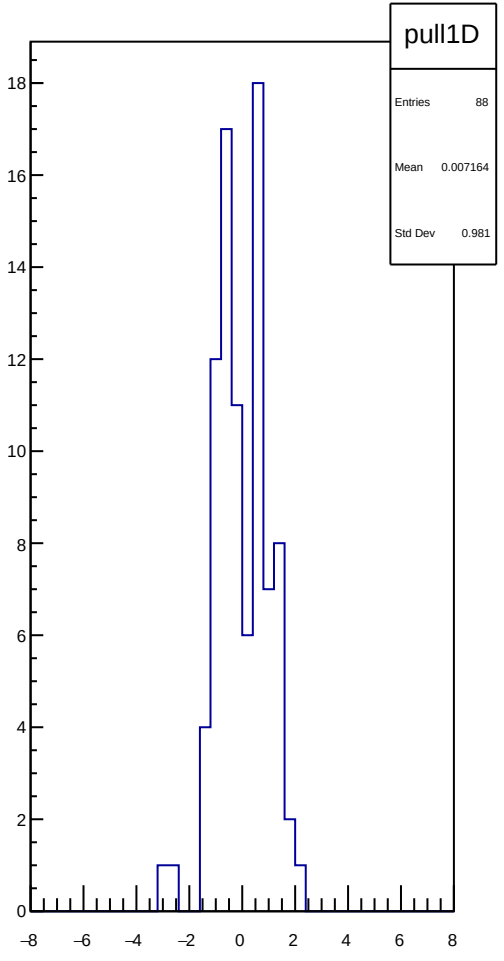
2
4
6
8

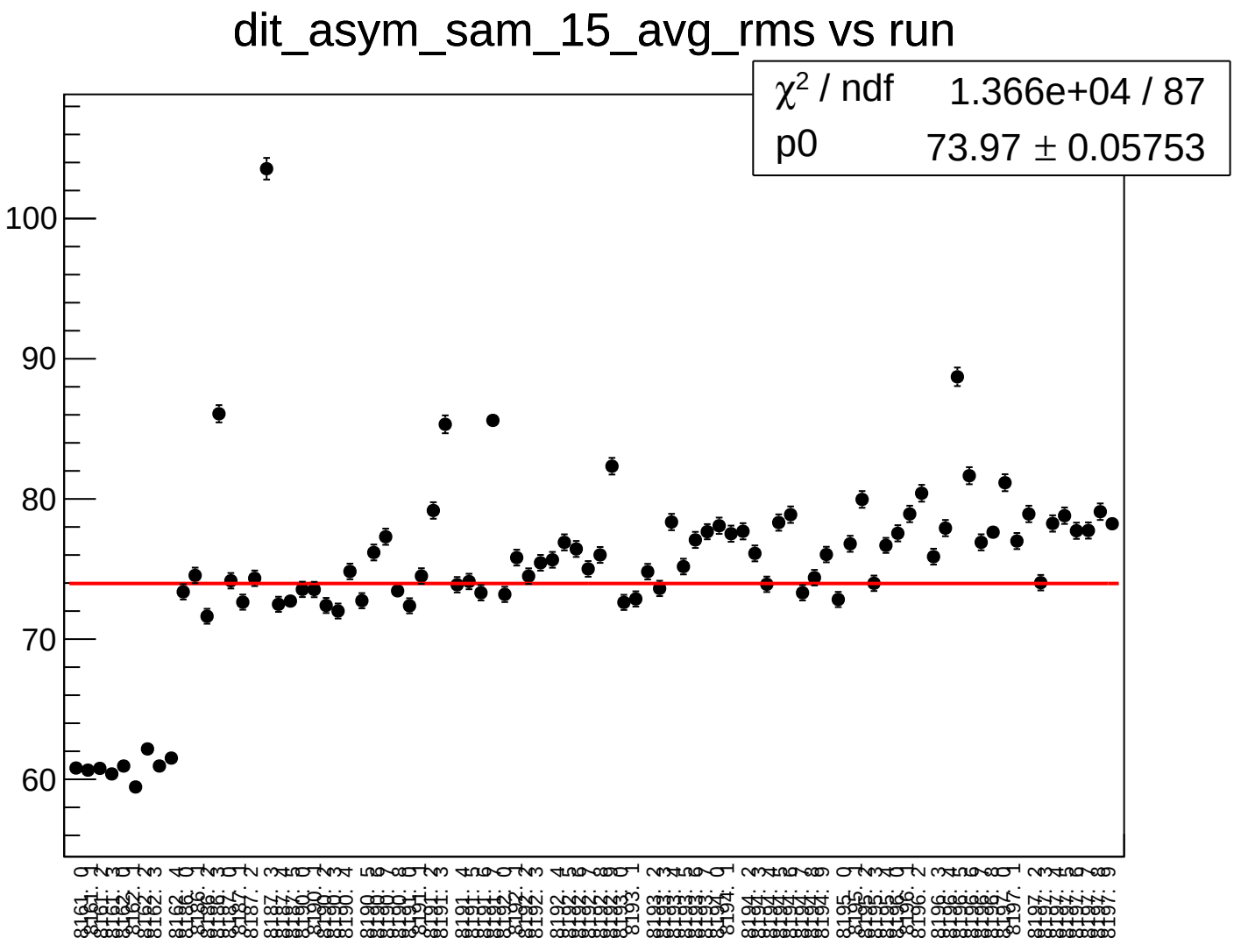

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.21e+04 / 87
p0 67.05 ± 0.05212
90
85
80
75
70
65
60
55

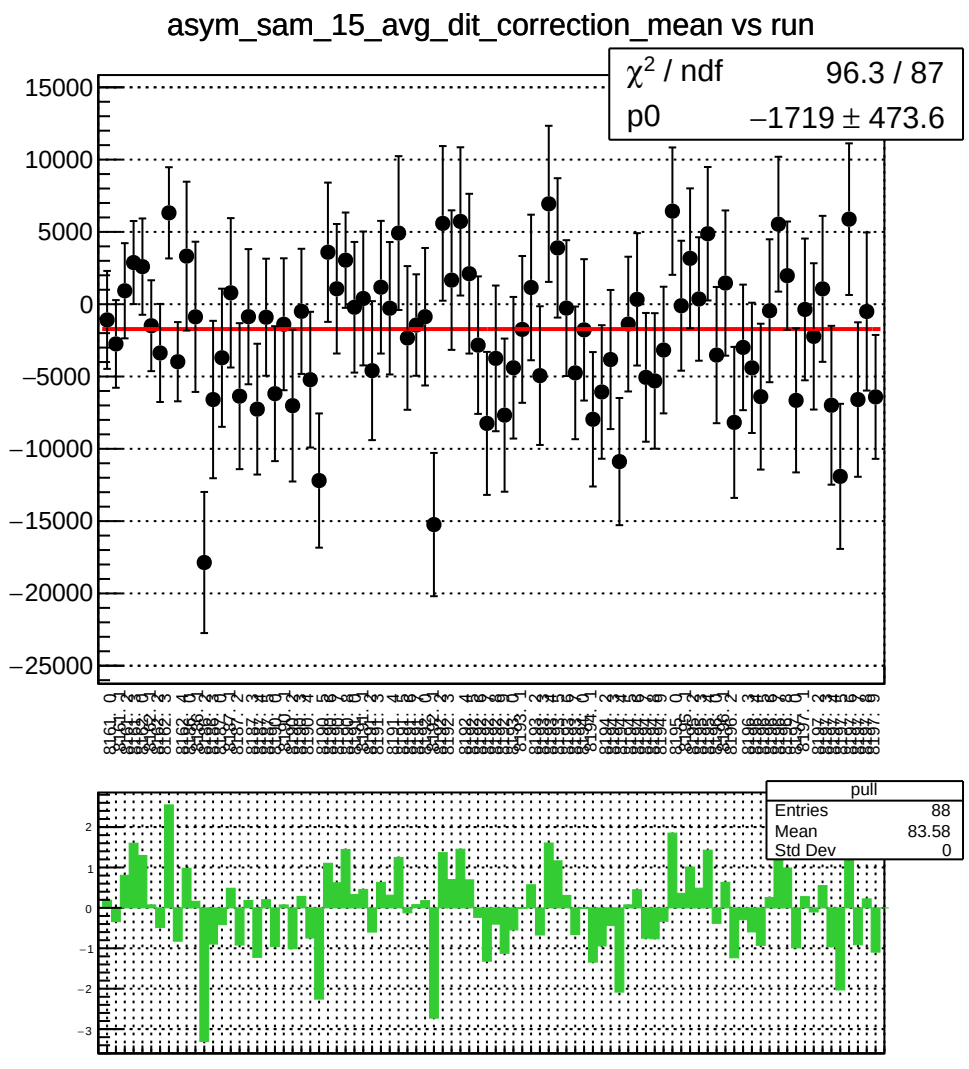

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.62 / 87
p0 −1528 ± 474.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 89.13
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.04383
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

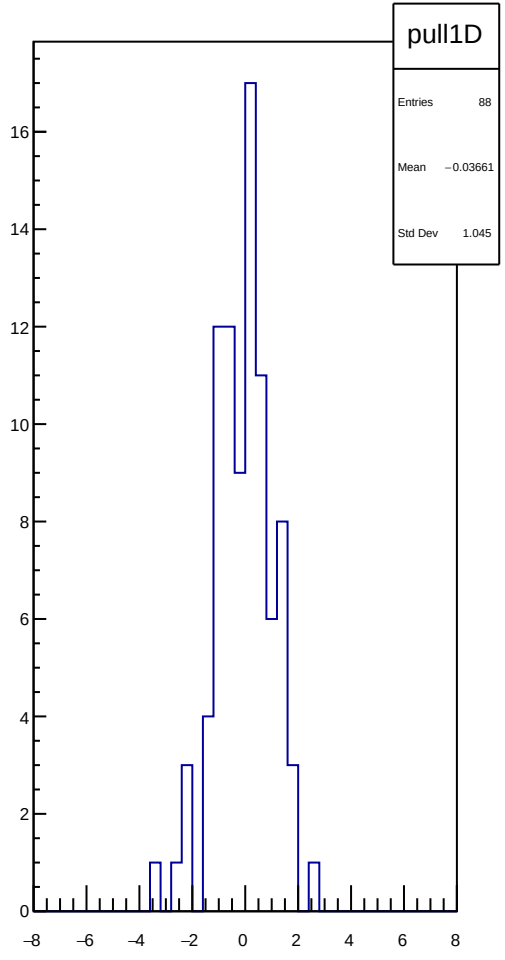

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.896e+04 / 87
p0 426.7 ± 0.3355
550
500
450
400
350
300

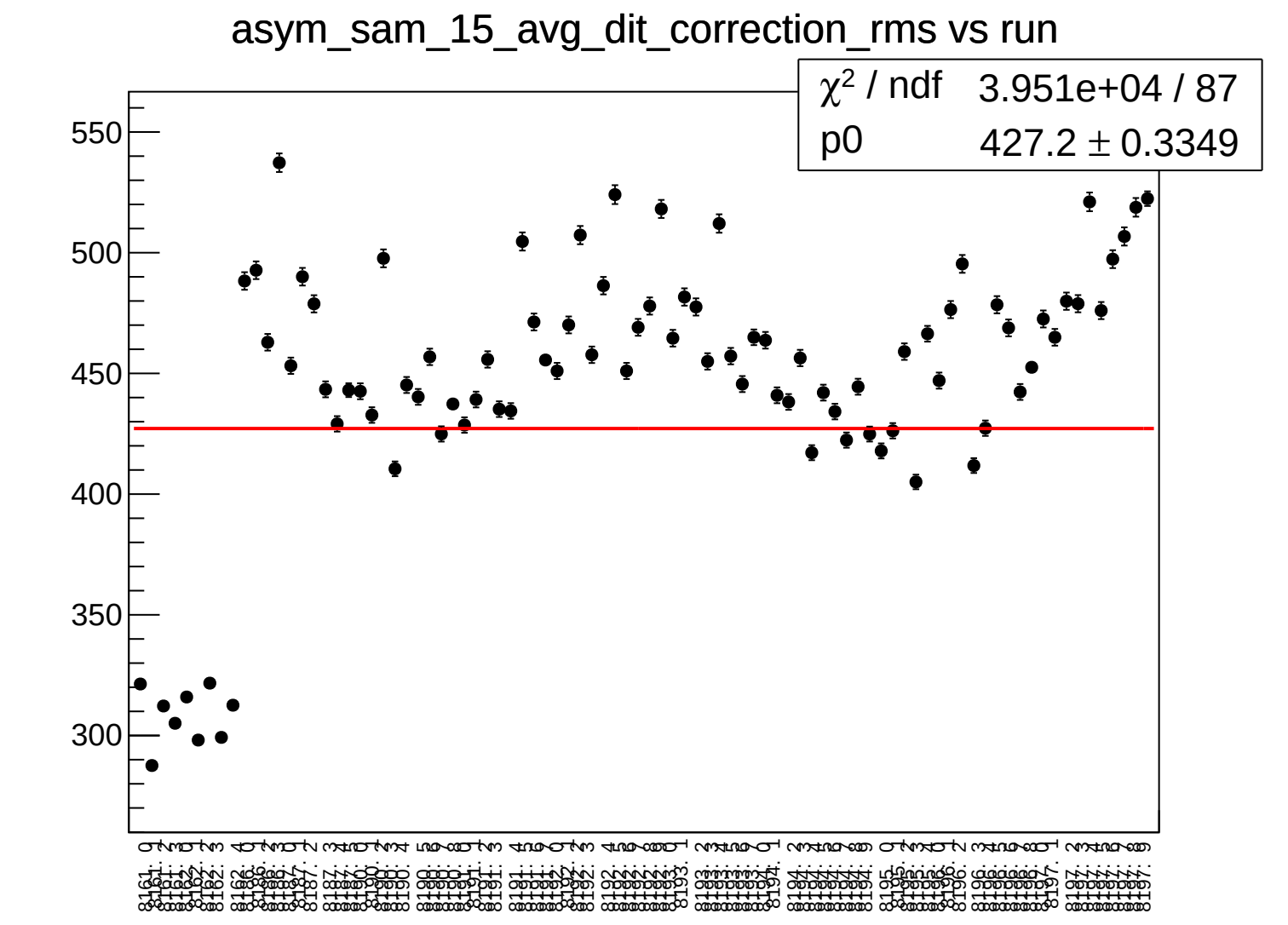

dit_asym_sam_15_avg_mean vs run
χ² / ndf 84.69 / 87
p0 138.8 ± 81.36
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −140.9
Std Dev 0
2
1
0
−1
−2
−3

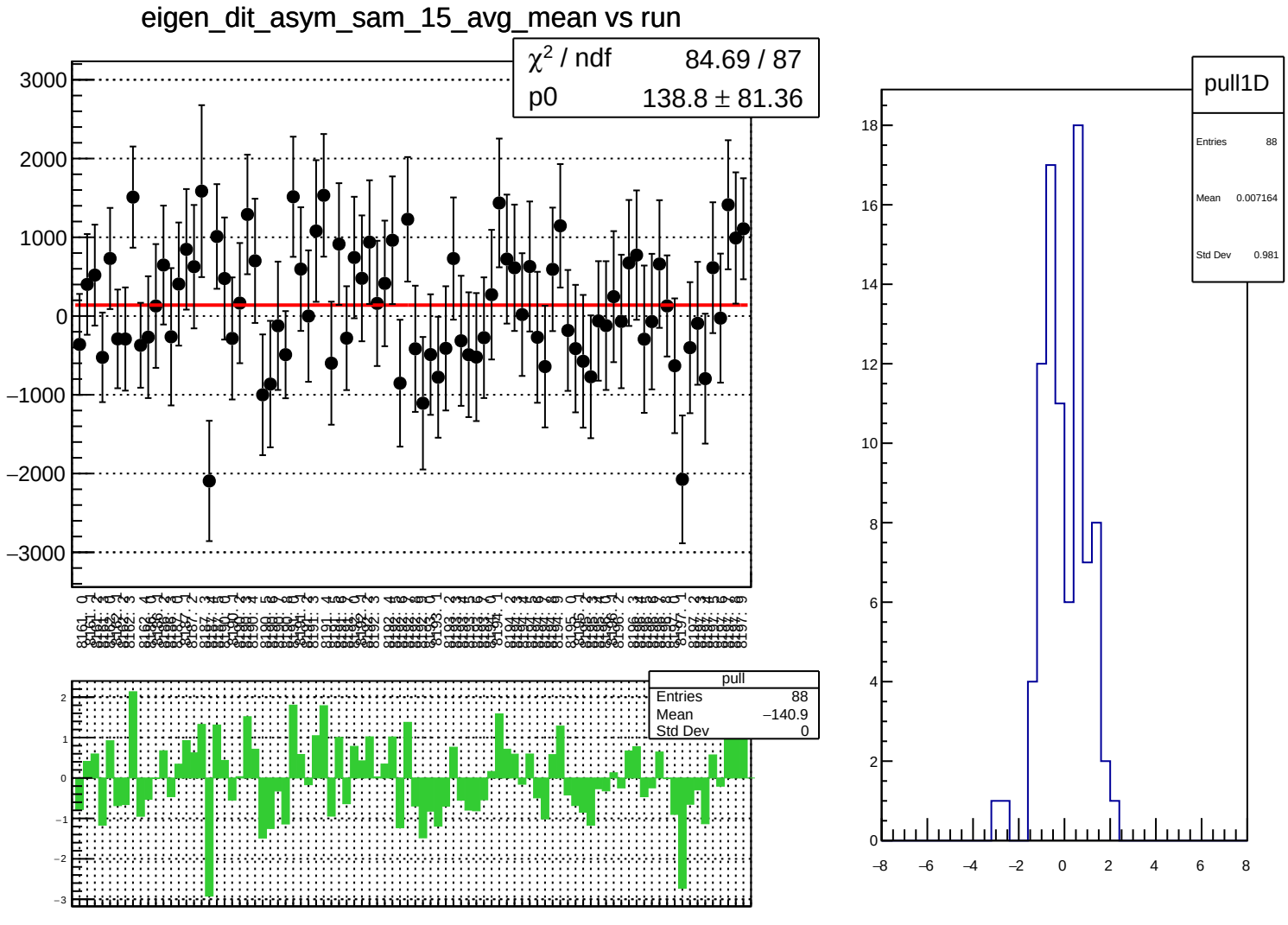

pull1D
Entries 88
Mean 0.007164
Std Dev 0.981
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

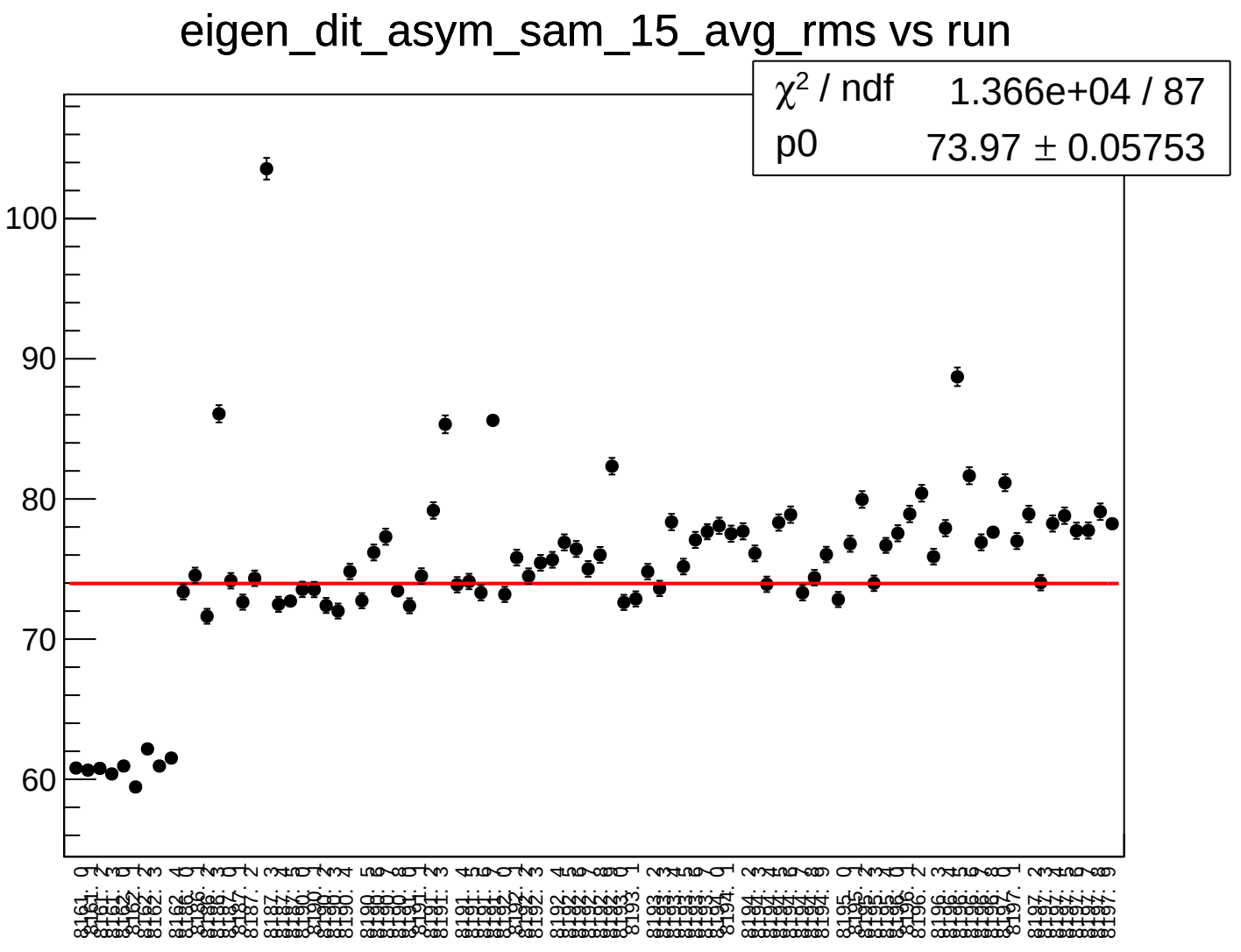

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.366e+04 / 87
p0 73.97 ± 0.05753
100
90
80
70
60

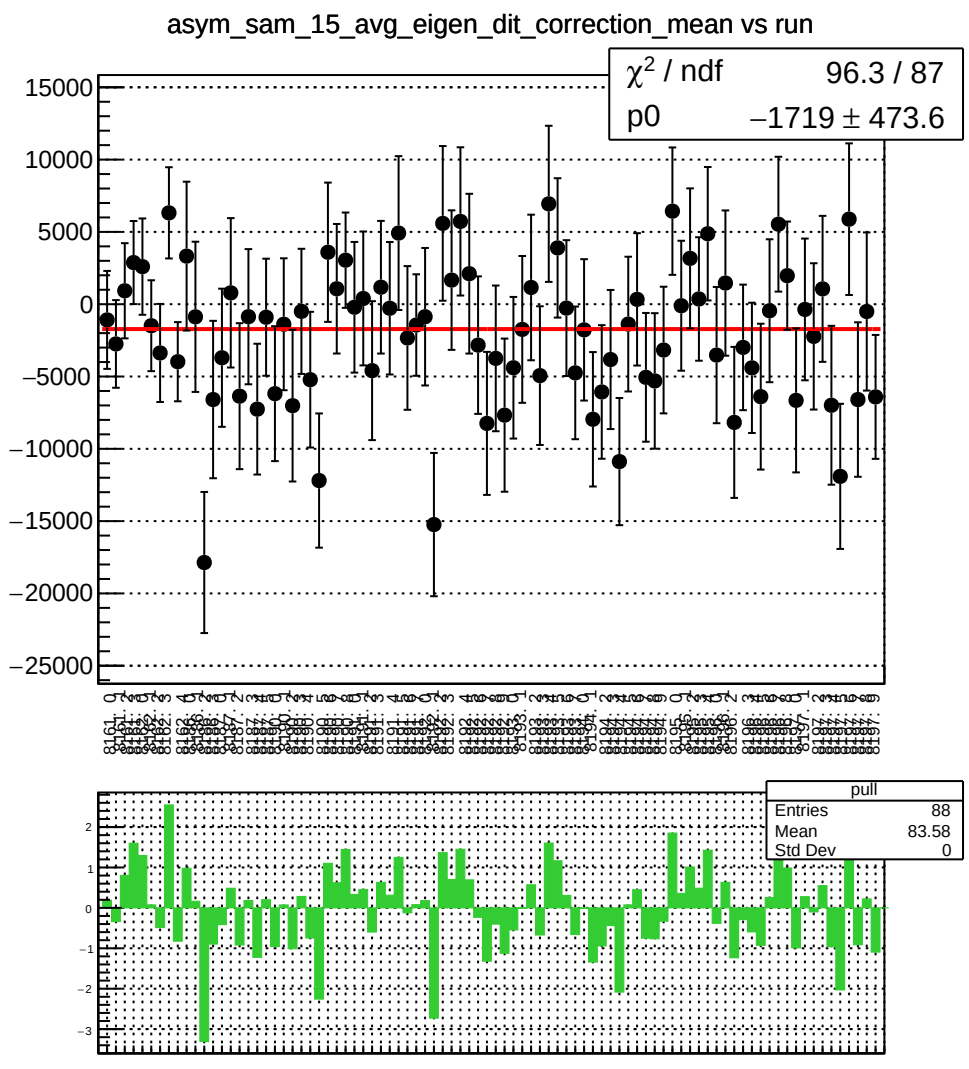

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 96.3 / 87
p0 −1719 ± 473.6
pull
Entries 88
Mean 83.58
Std Dev 0

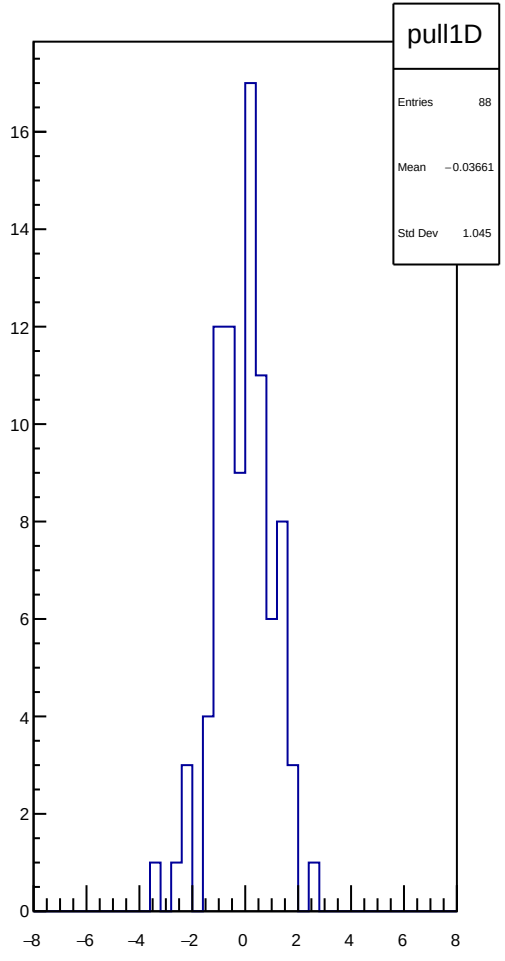

pull1D
Entries 88
Mean −0.03661
Std Dev 1.045

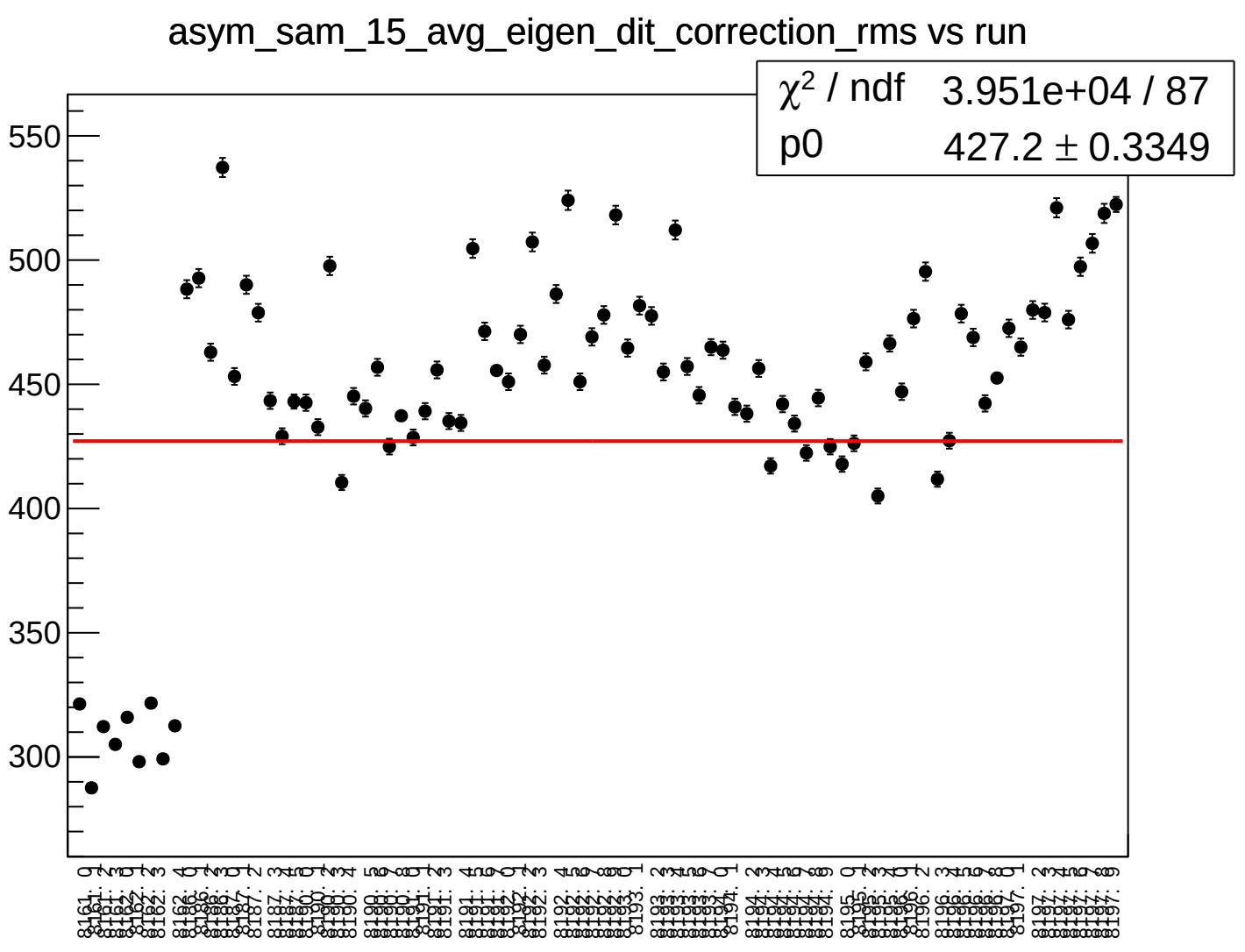

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3.951e+04 / 87
p0 427.2 ± 0.3349
550
500
450
400
350
300

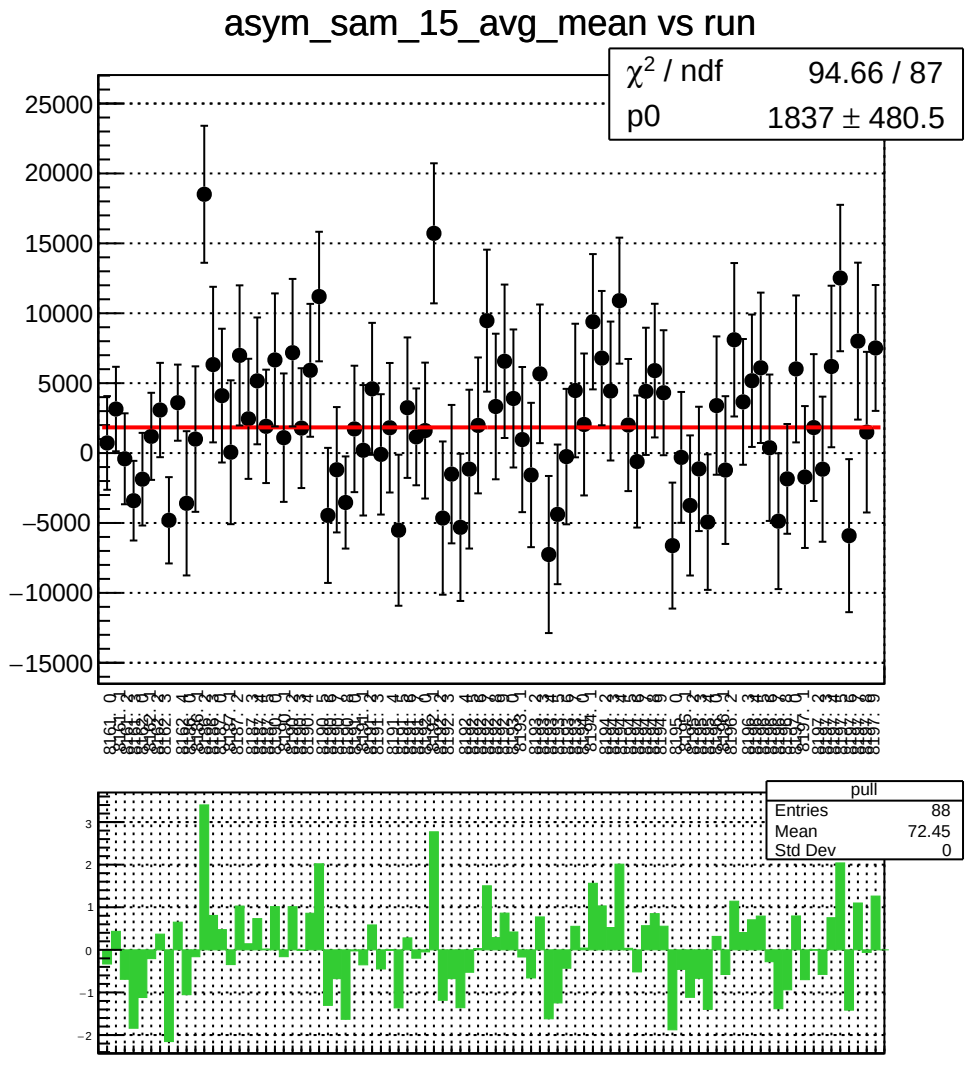

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 84.69 / 87
p0 138.8 ± 81.36
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −140.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.007164
Std Dev 0.981
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

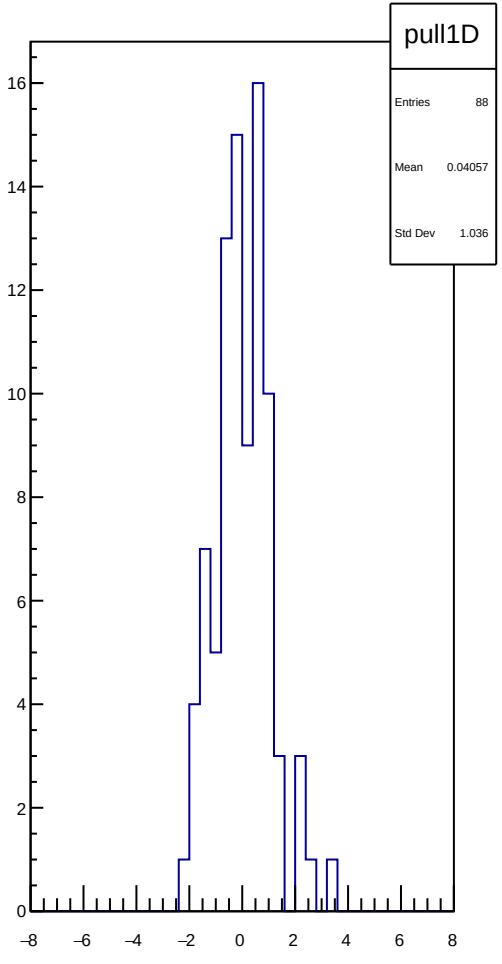

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1.366e+04 / 87
p0 73.97 ± 0.05753
100
90
80
70
60

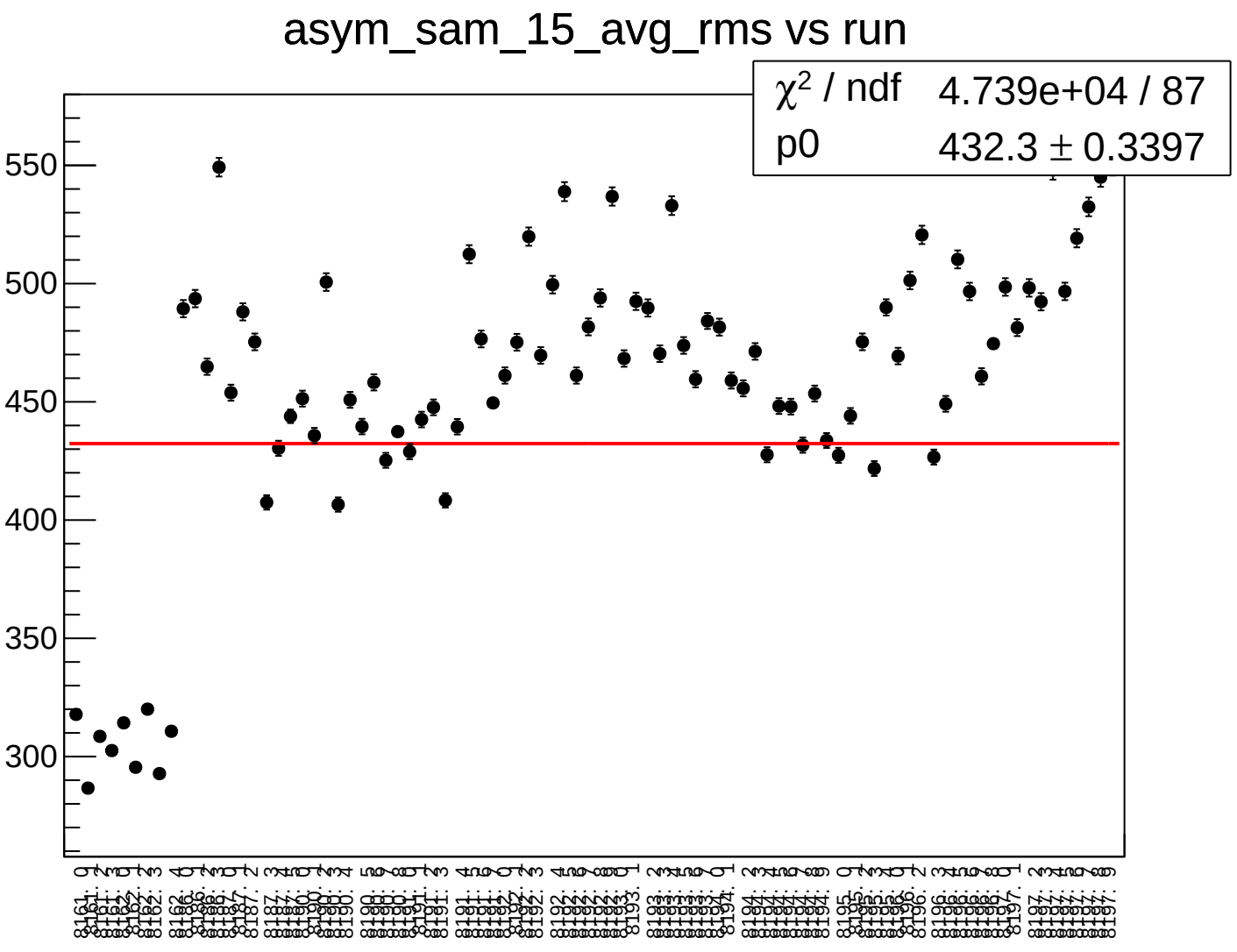

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.3 / 87
p0 −1719 ± 473.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 83.58
Std Dev 0
2
1
0
−1
−2
−3

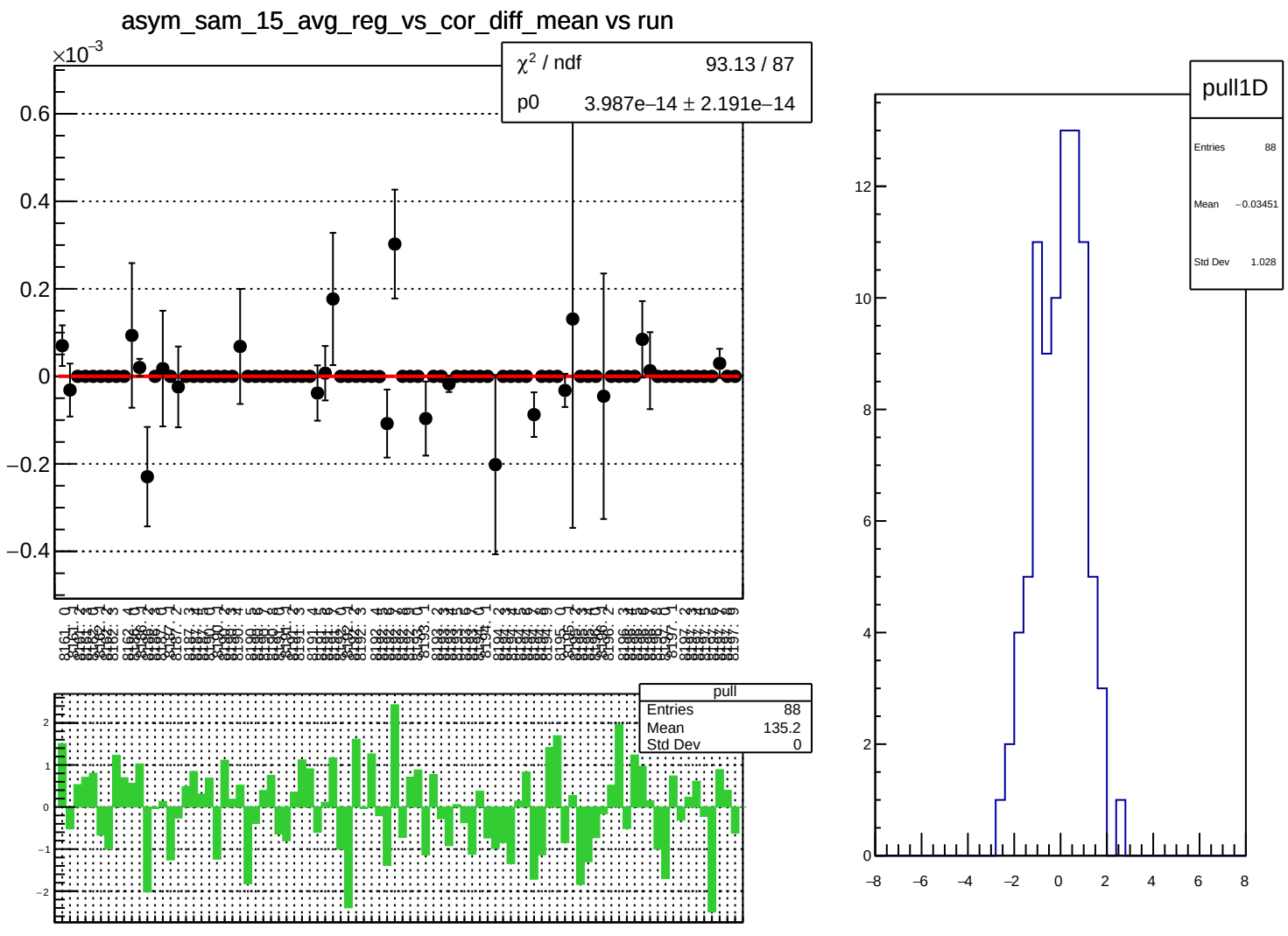

pull1D
Entries 88
Mean −0.03661
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

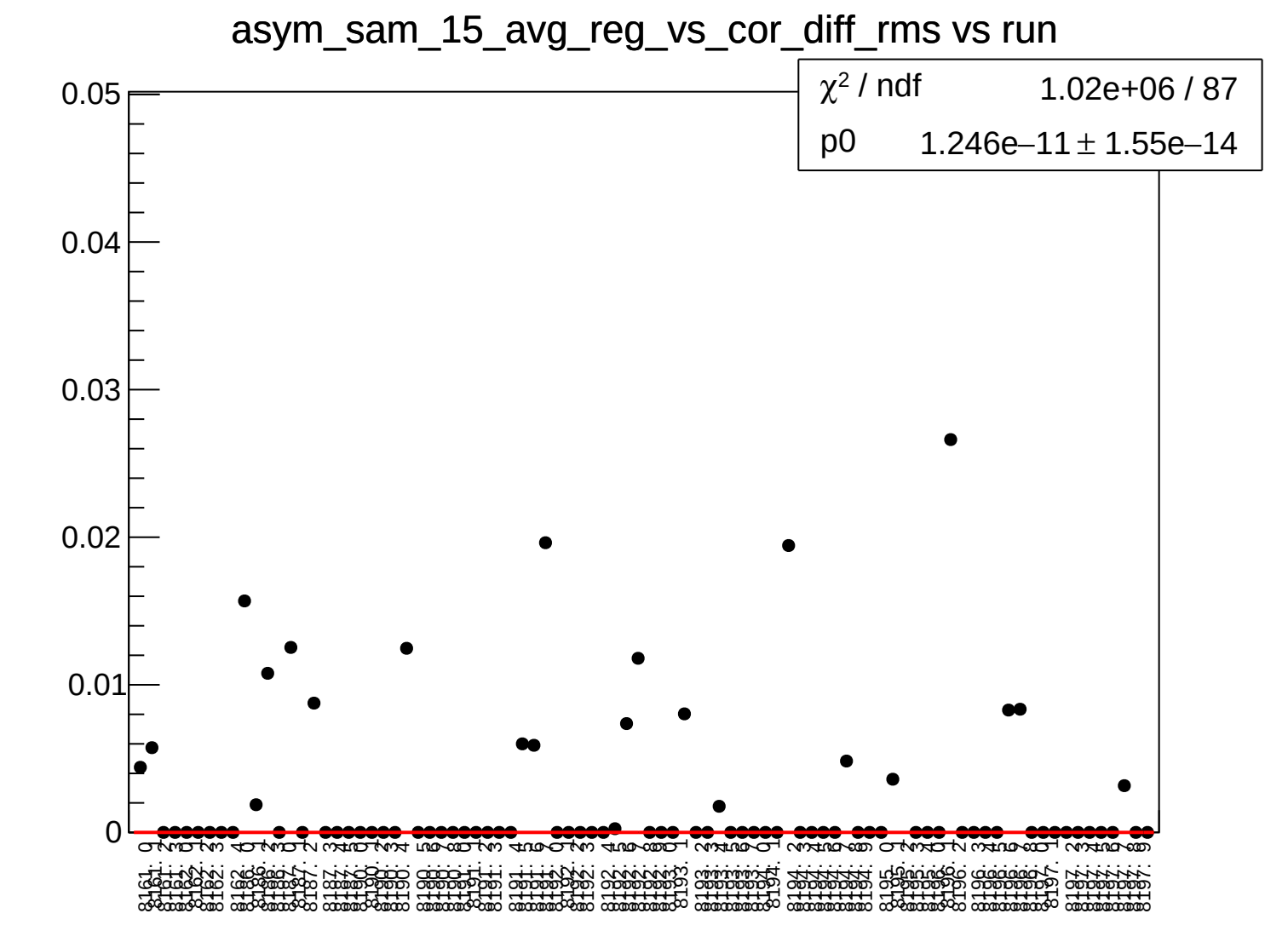

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.951e+04 / 87
p0 427.2 ± 0.3349
550
500
450
400
350
300

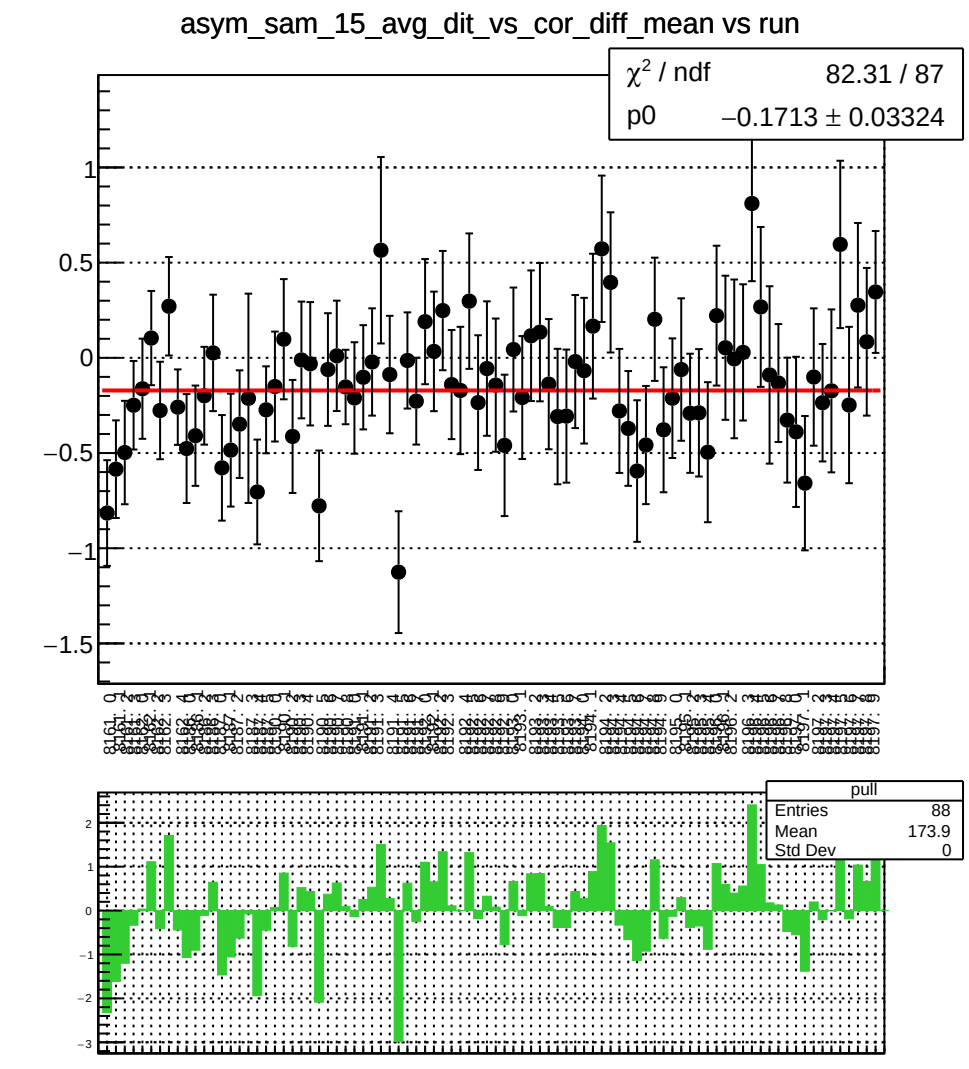

asym_sam_15_avg_mean vs run
χ² / ndf 94.66 / 87
p0 1837 ± 480.5
pull
Entries 88
Mean 72.45
Std Dev 0

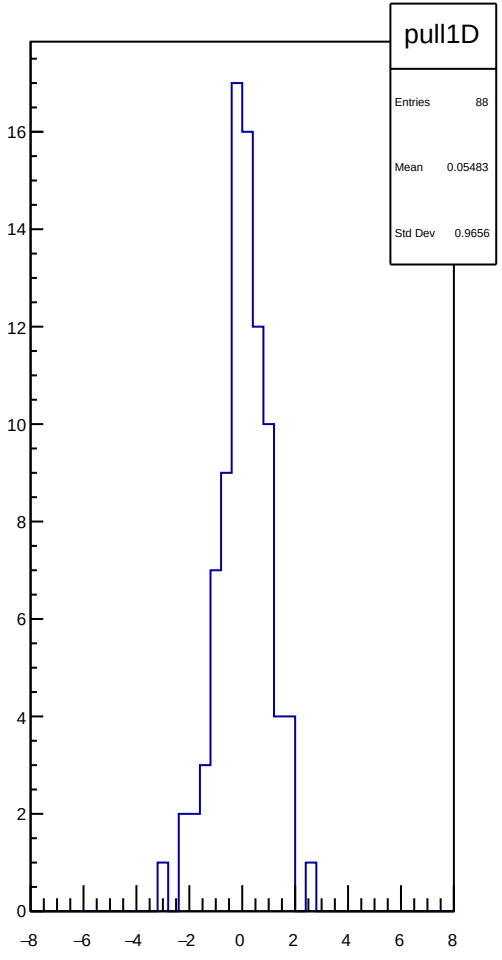

pull1D
Entries 88
Mean 0.04057
Std Dev 1.036

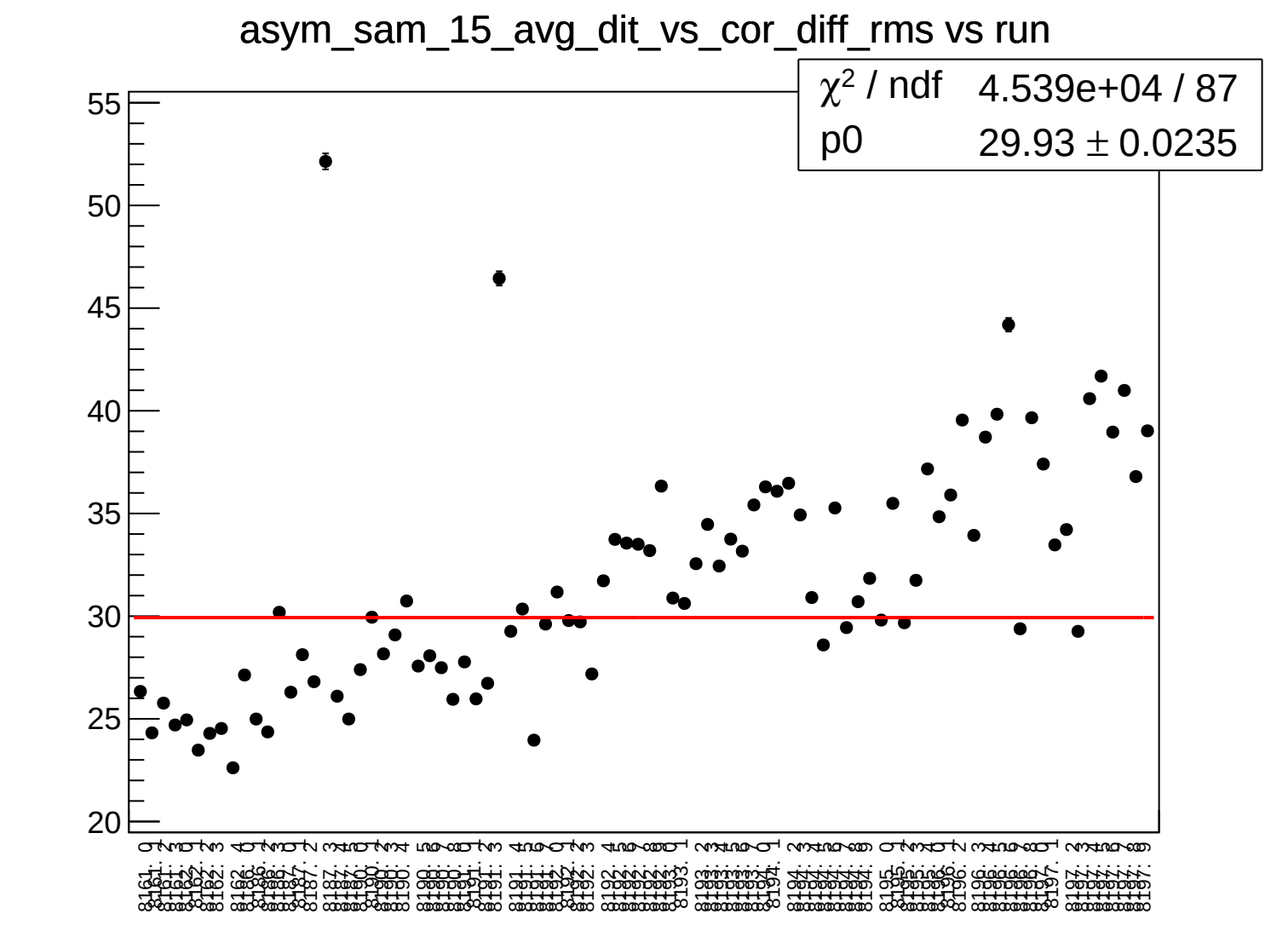

asym_sam_15_avg_rms vs run
χ² / ndf 4.739e+04 / 87
p0 432.3 ± 0.3397
550
500
450
400
350
300

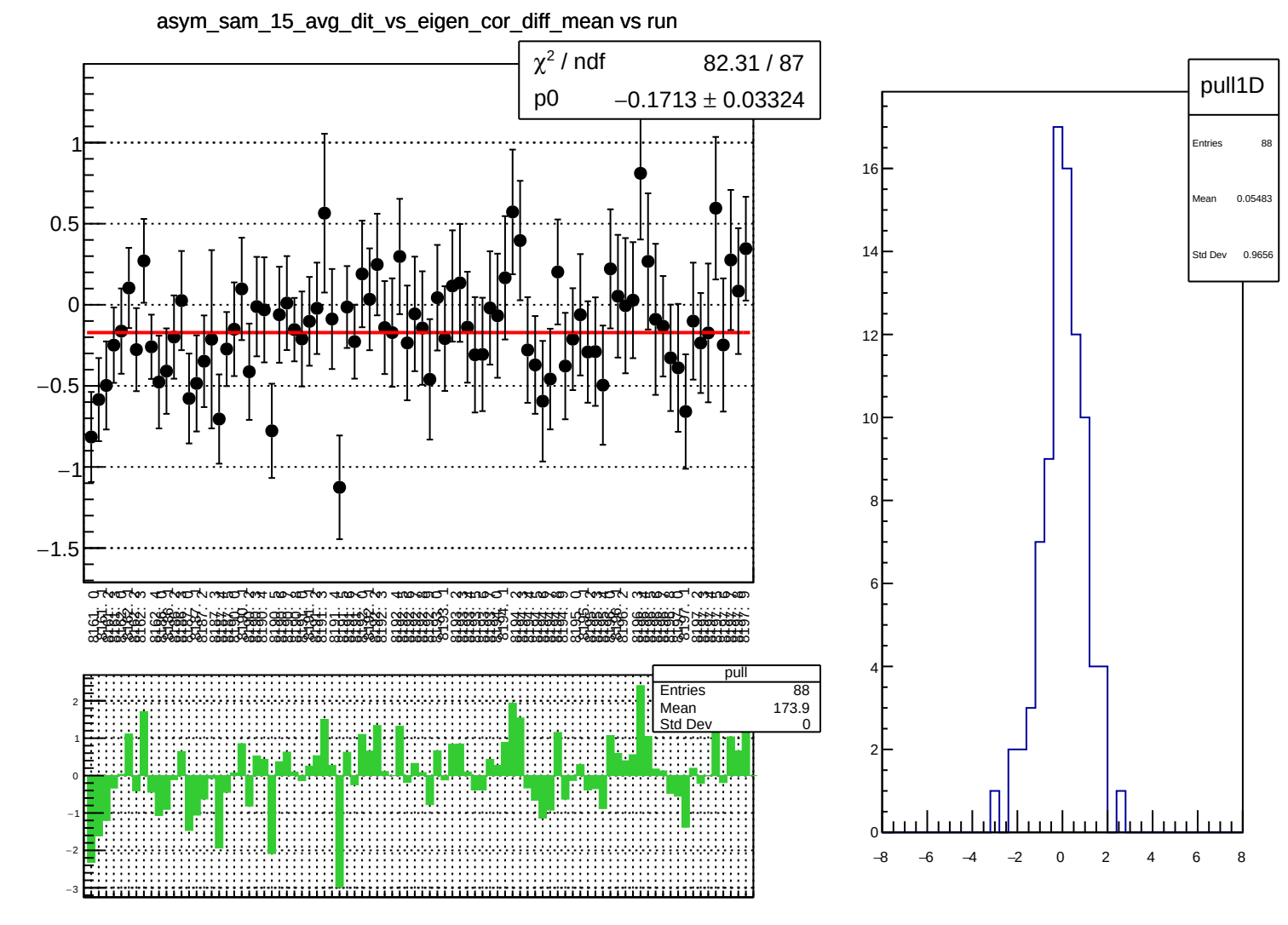

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 93.13 / 87
p0 3.987e−14 ± 2.191e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 135.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.03451
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

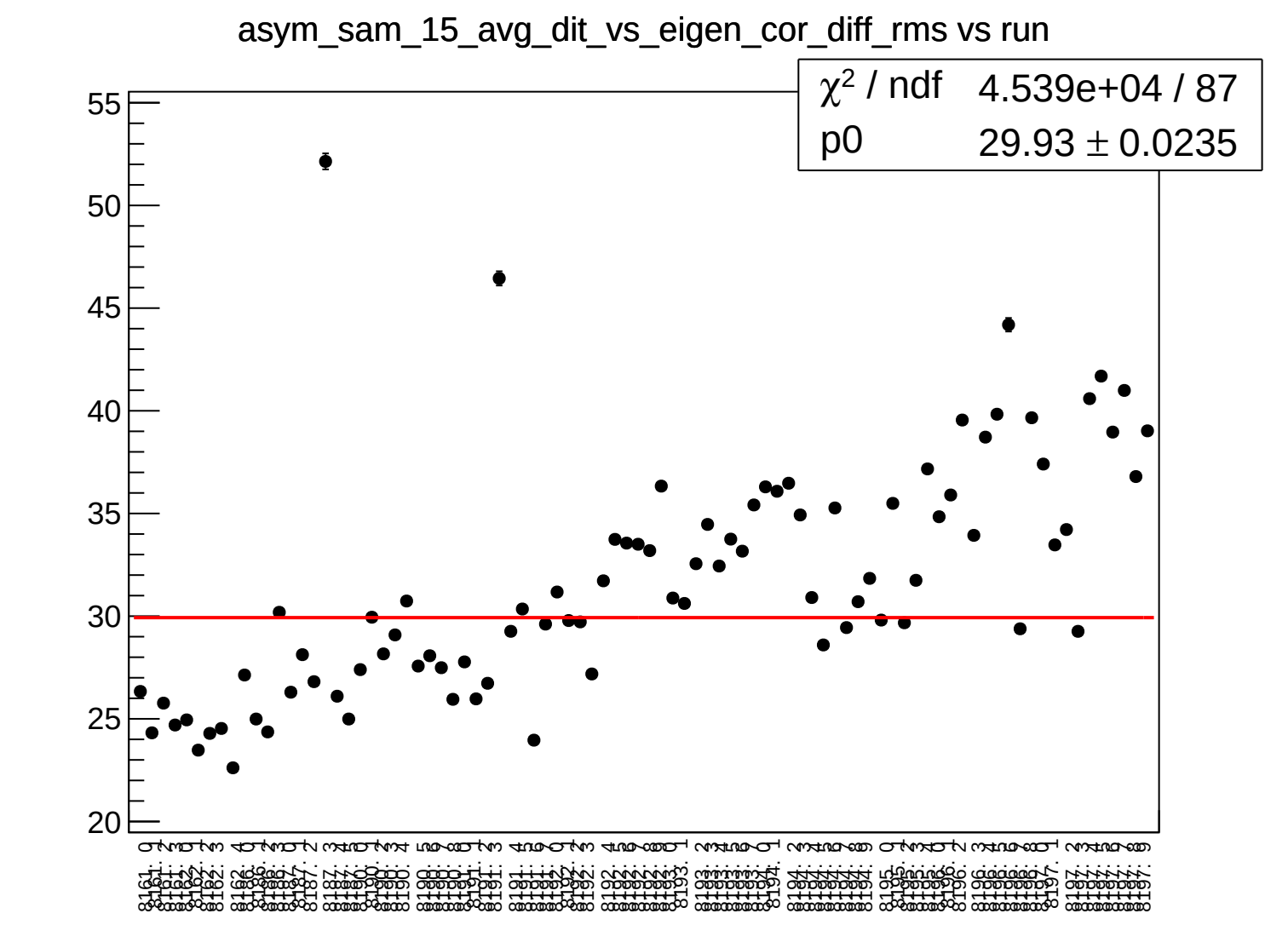

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.02e+06 / 87
p0 1.246e−11 ± 1.55e−14
0.05
0.04
0.03
0.02
0.01
0

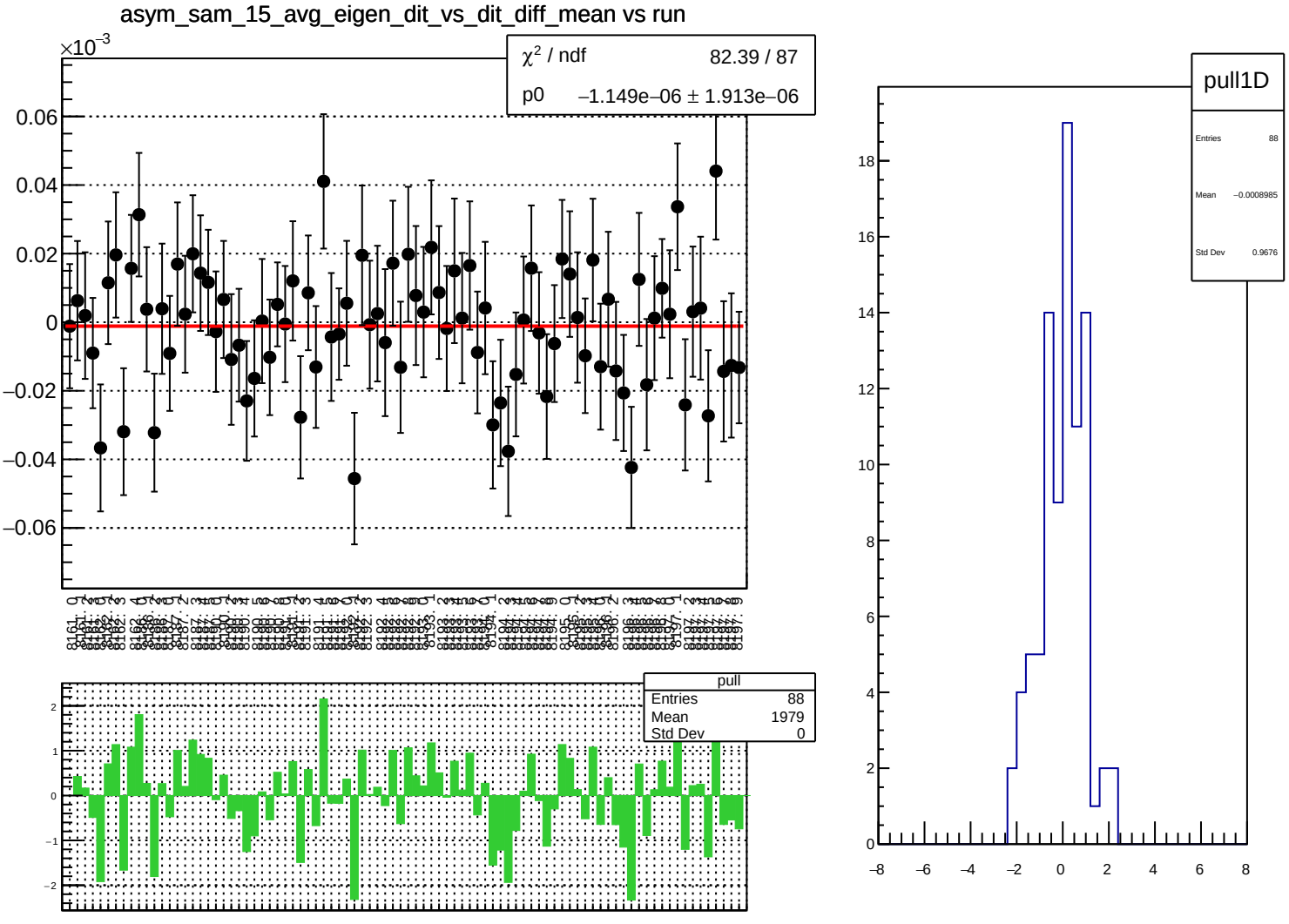

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.31 / 87
p0 −0.1713 ± 0.03324
pull
Entries 88
Mean 173.9
Std Dev 0

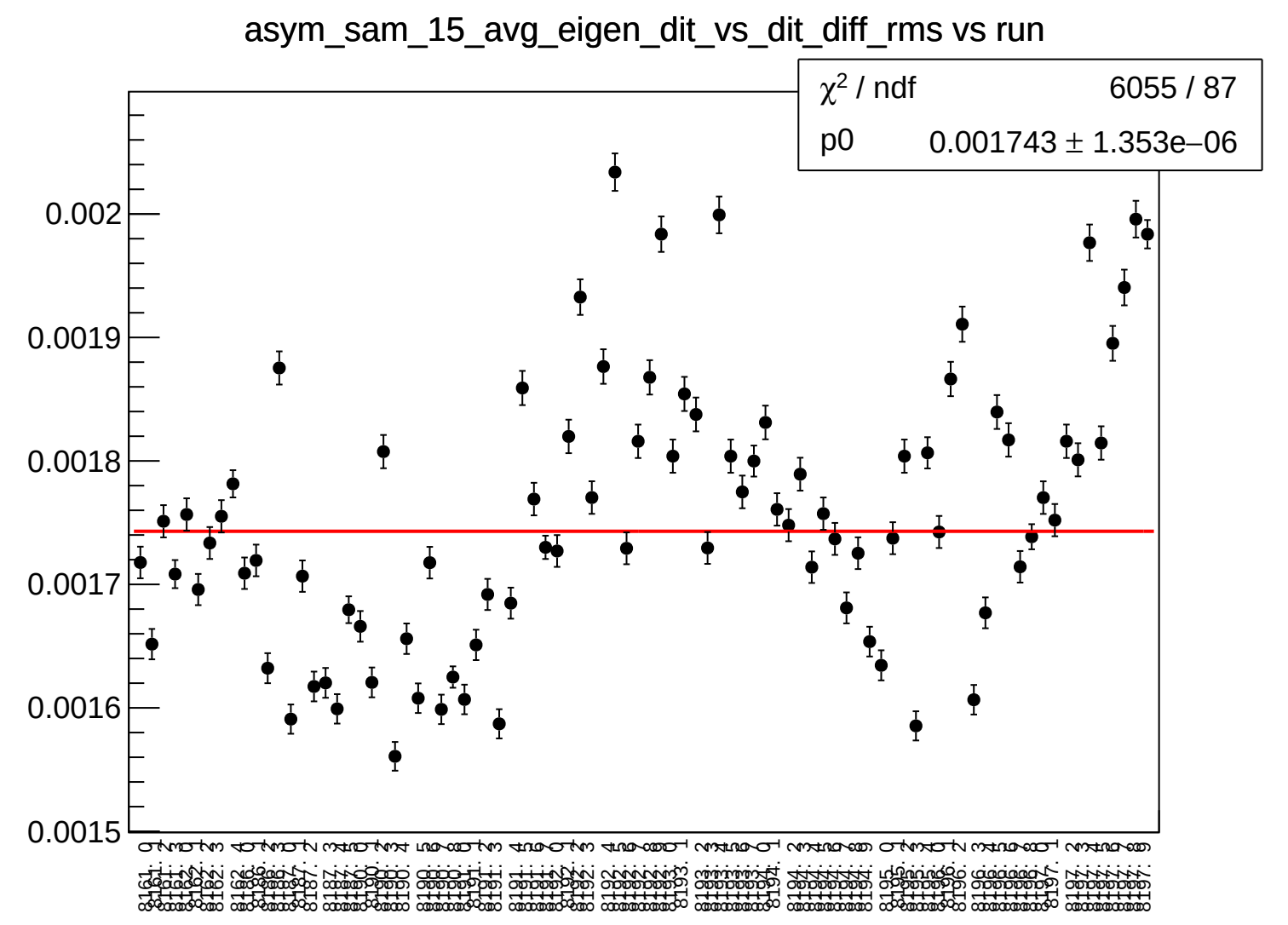

pull1D
Entries 88
Mean 0.05483
Std Dev 0.9656

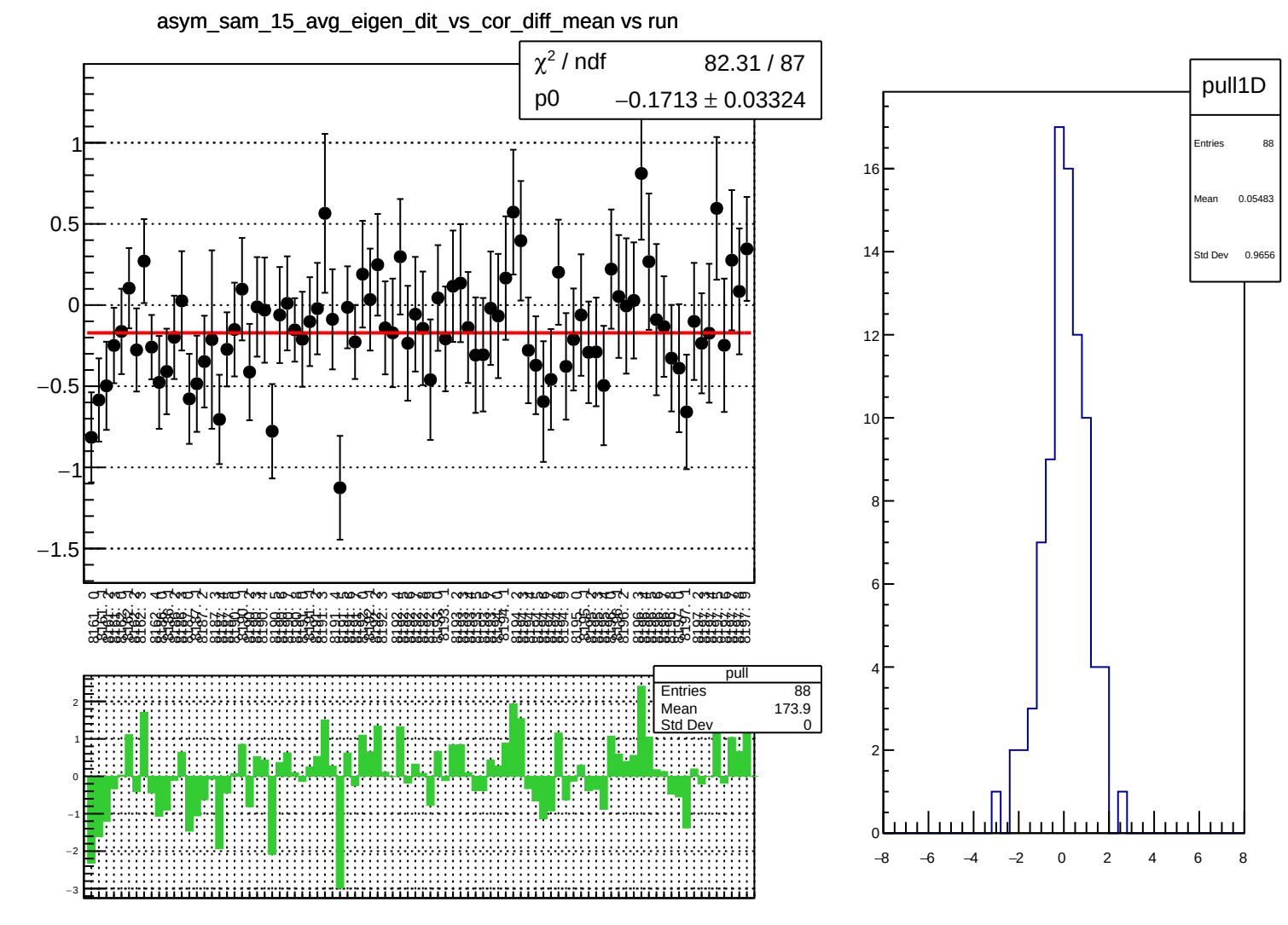

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.539e+04 / 87
p0 29.93 ± 0.0235
55
50
45
40
35
30
25
20

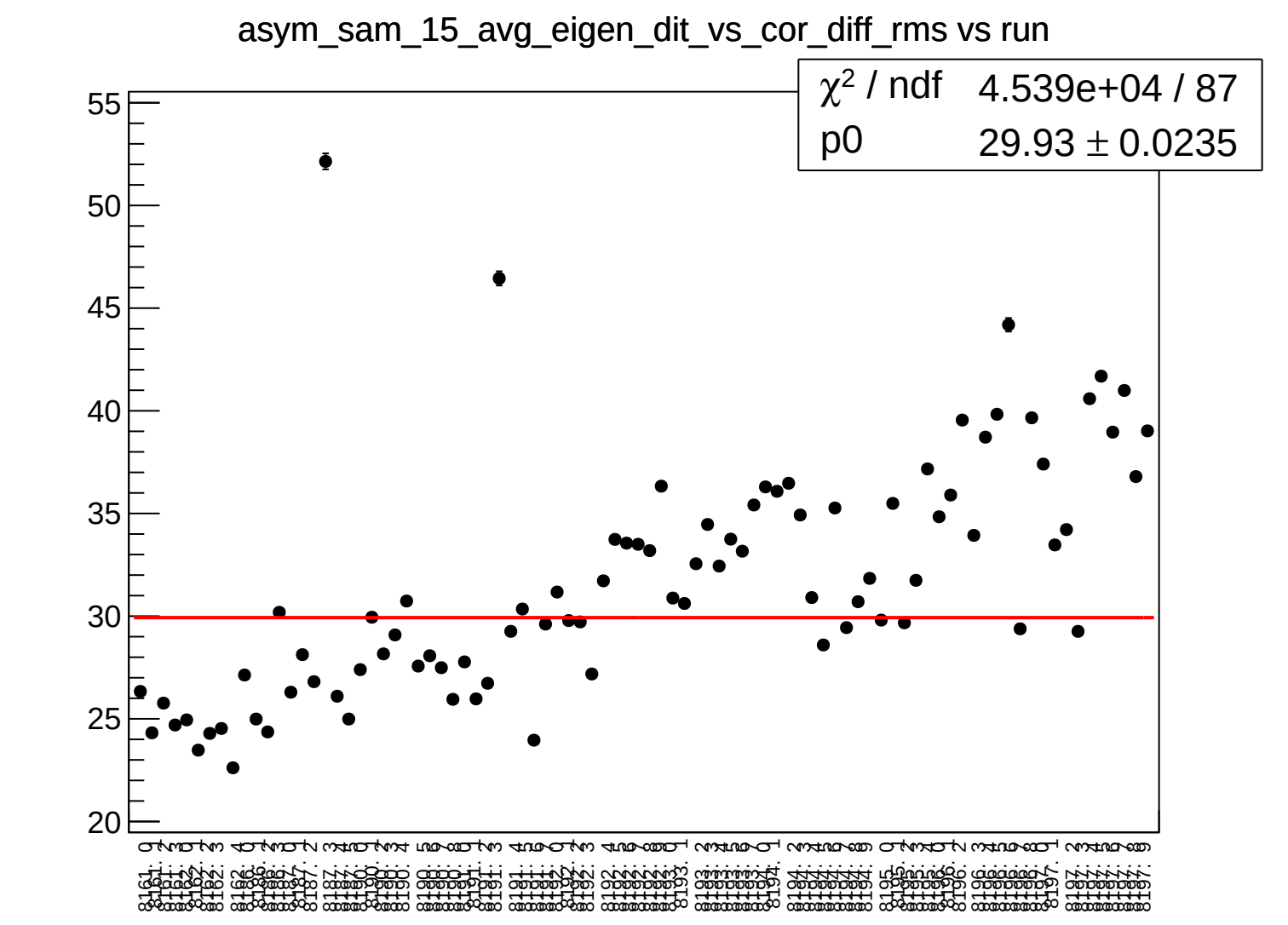

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.31 / 87
p0 −0.1713 ± 0.03324
pull
Entries 88
Mean 173.9
Std Dev 0
pull1D
Entries 88
Mean 0.05483
Std Dev 0.9656

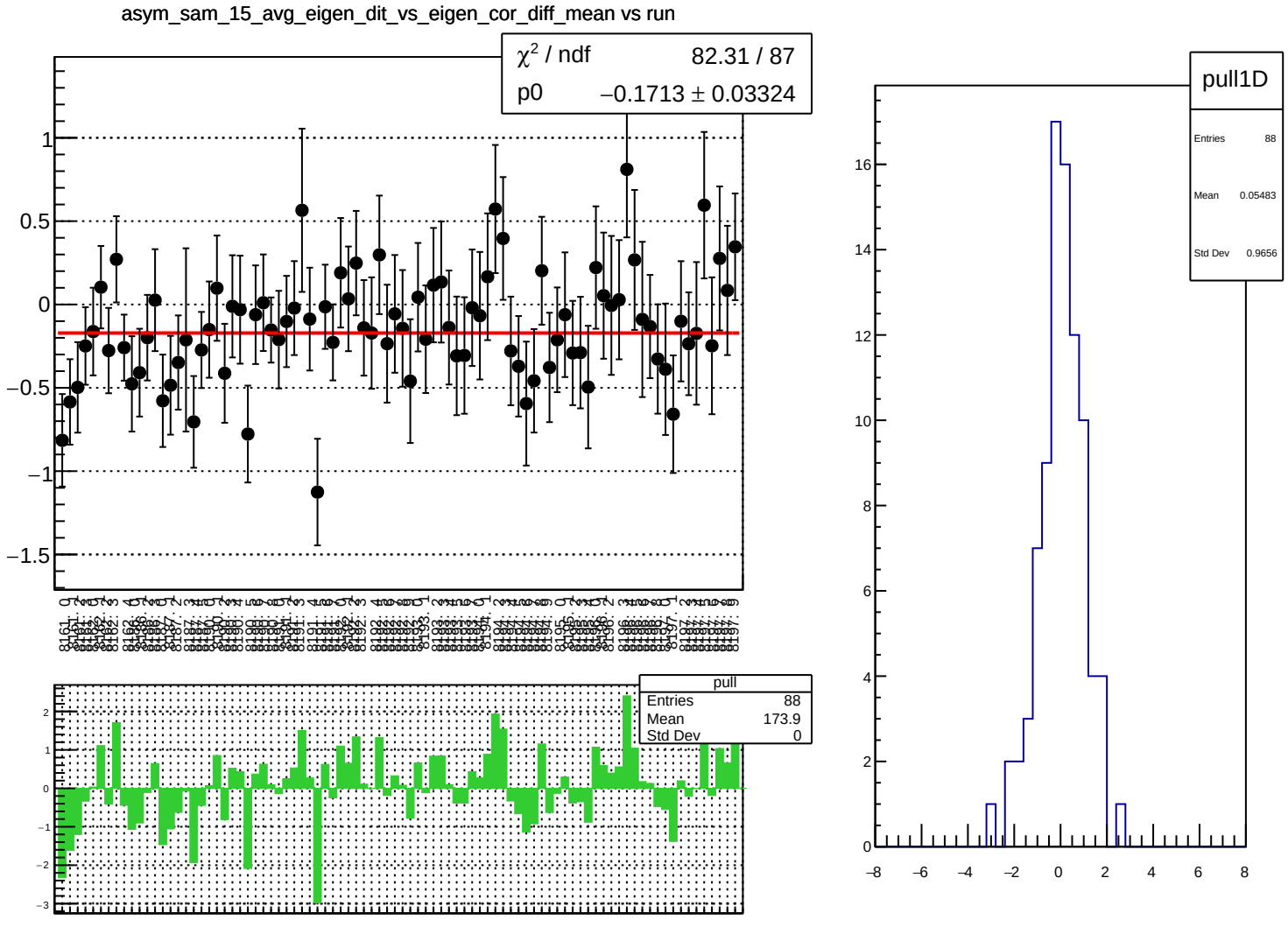

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.539e+04 / 87
p0 29.93 ± 0.0235
55
50
45
40
35
30
25
20

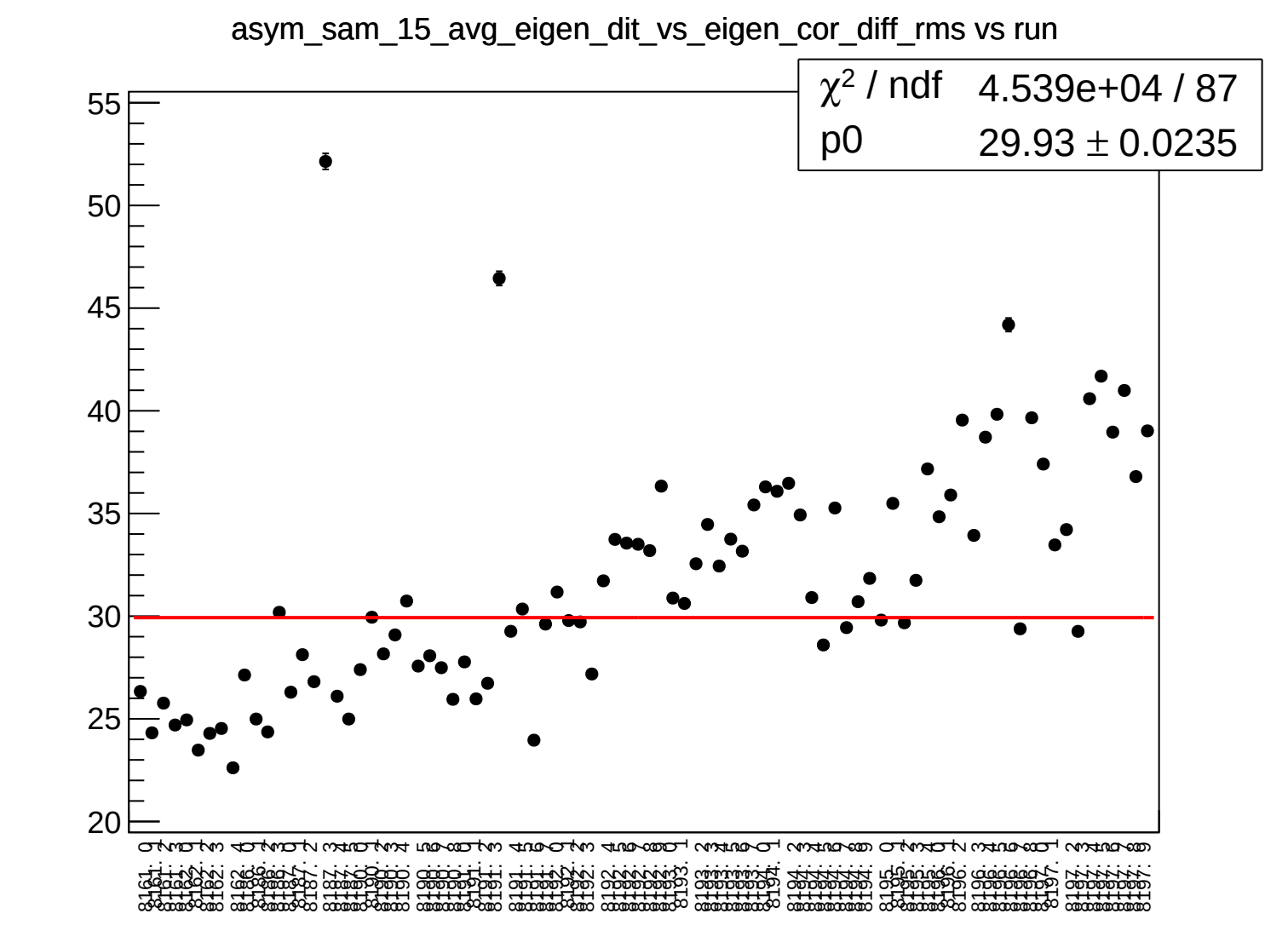

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.39 / 87
p0 −1.149e−06 ± 1.913e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 1979
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0008985
Std Dev 0.9676
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

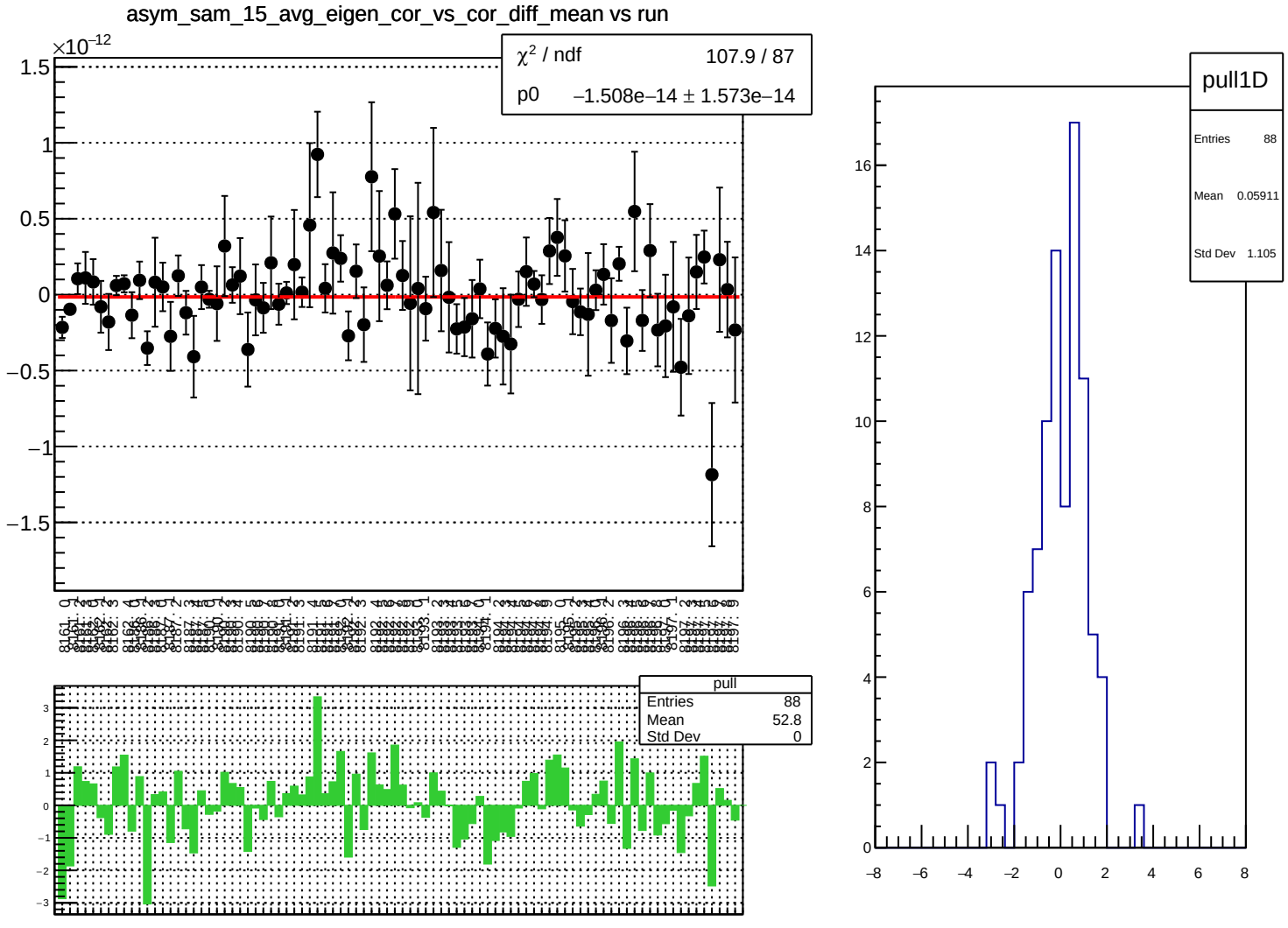

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6055 / 87
p0 0.001743 ± 1.353e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

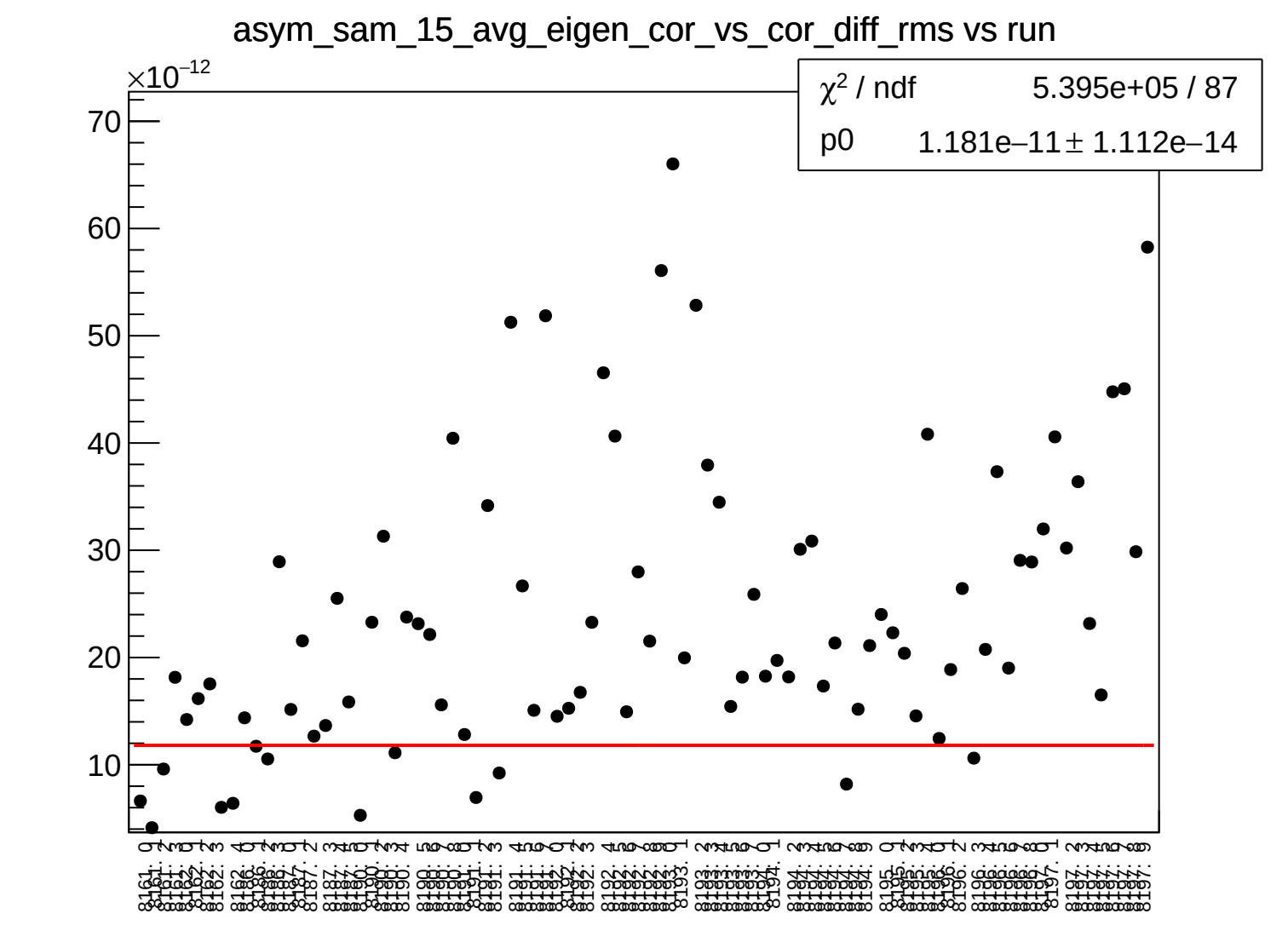

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.31 / 87
p0 −0.1713 ± 0.03324
pull
Entries 88
Mean 173.9
Std Dev 0
pull1D
Entries 88
Mean 0.05483
Std Dev 0.9656

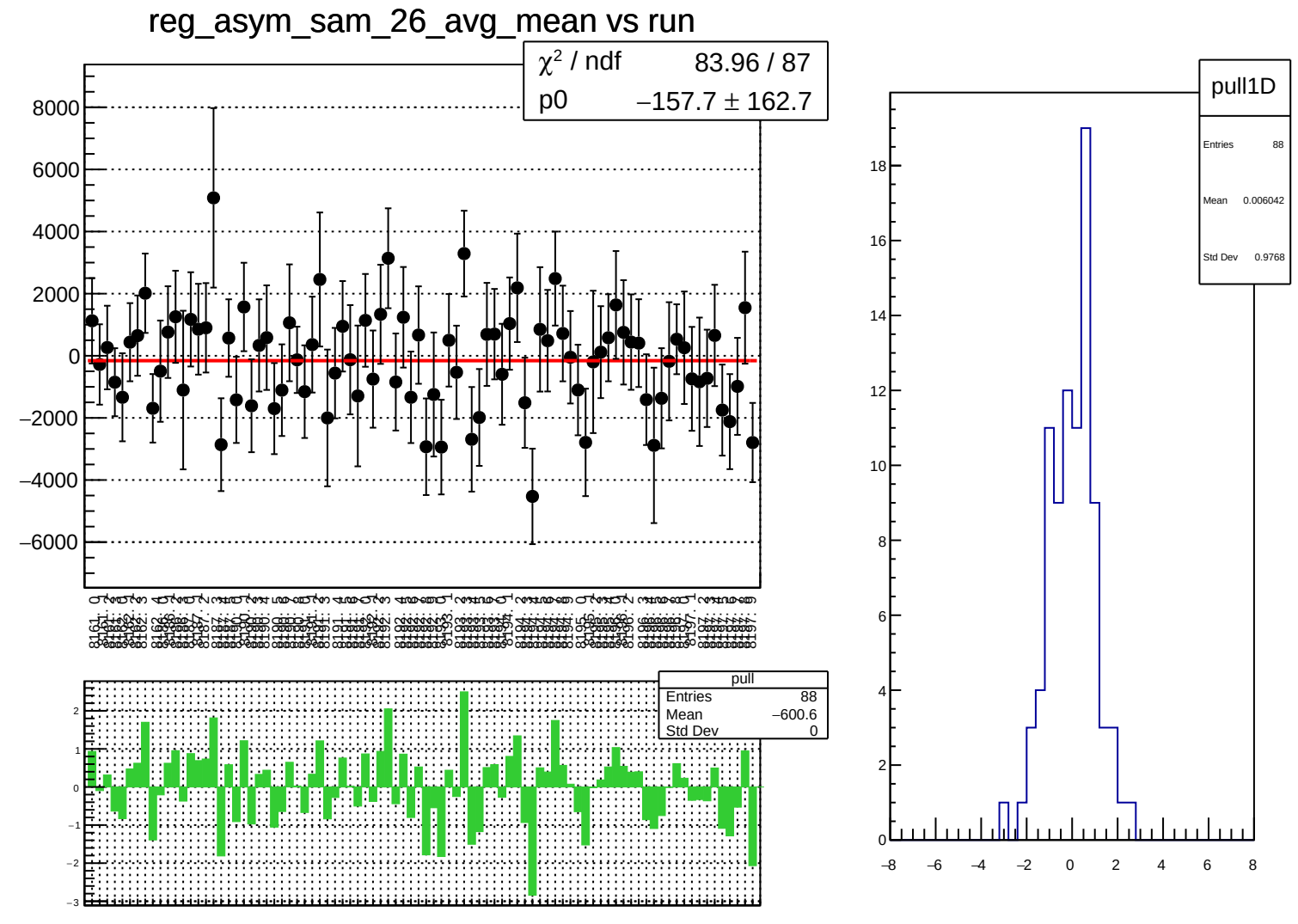

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.539e+04 / 87
p0 29.93 ± 0.0235
55
50
45
40
35
30
25
20

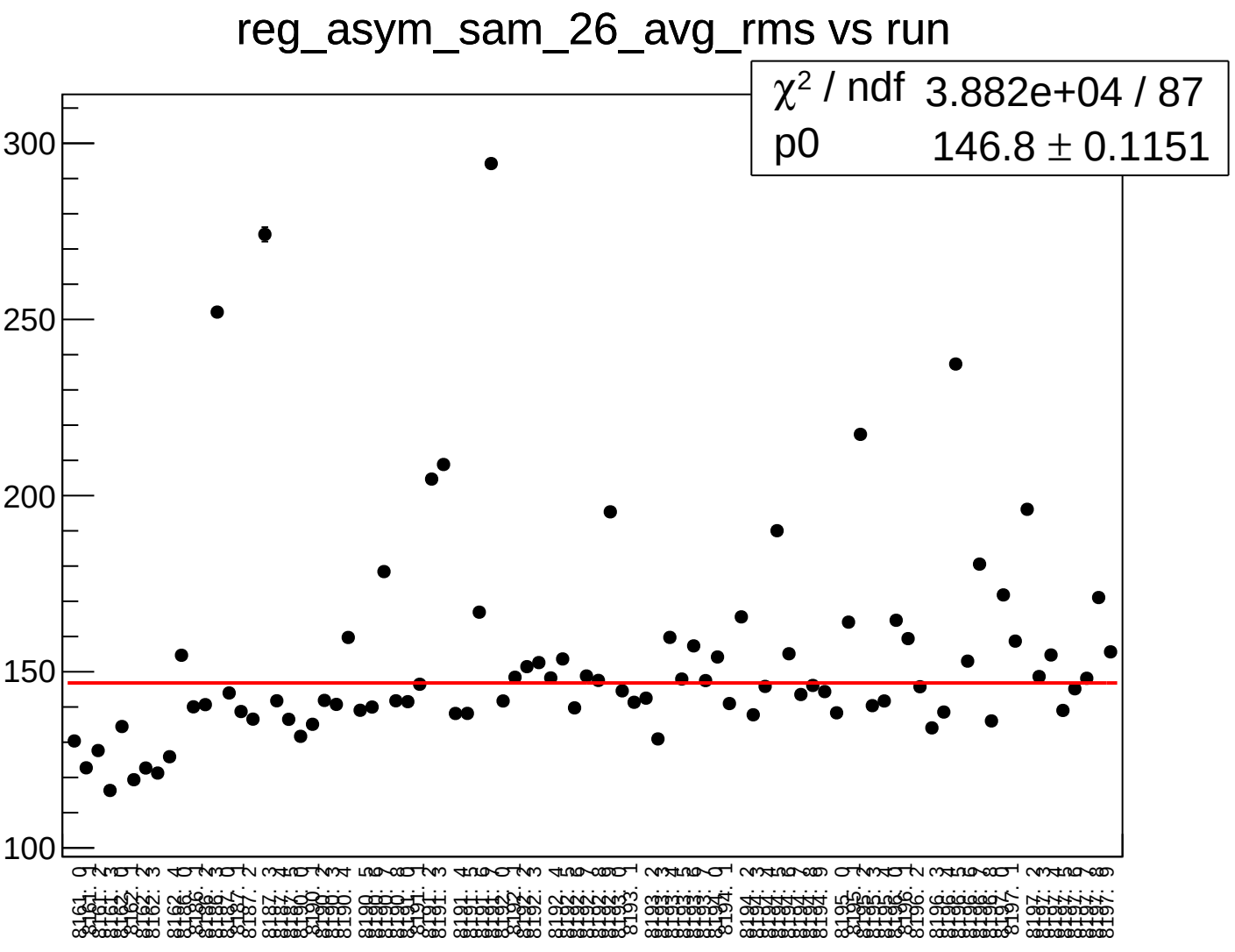

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.31 / 87
p0 −0.1713 ± 0.03324
pull
Entries 88
Mean 173.9
Std Dev 0
pull1D
Entries 88
Mean 0.05483
Std Dev 0.9656

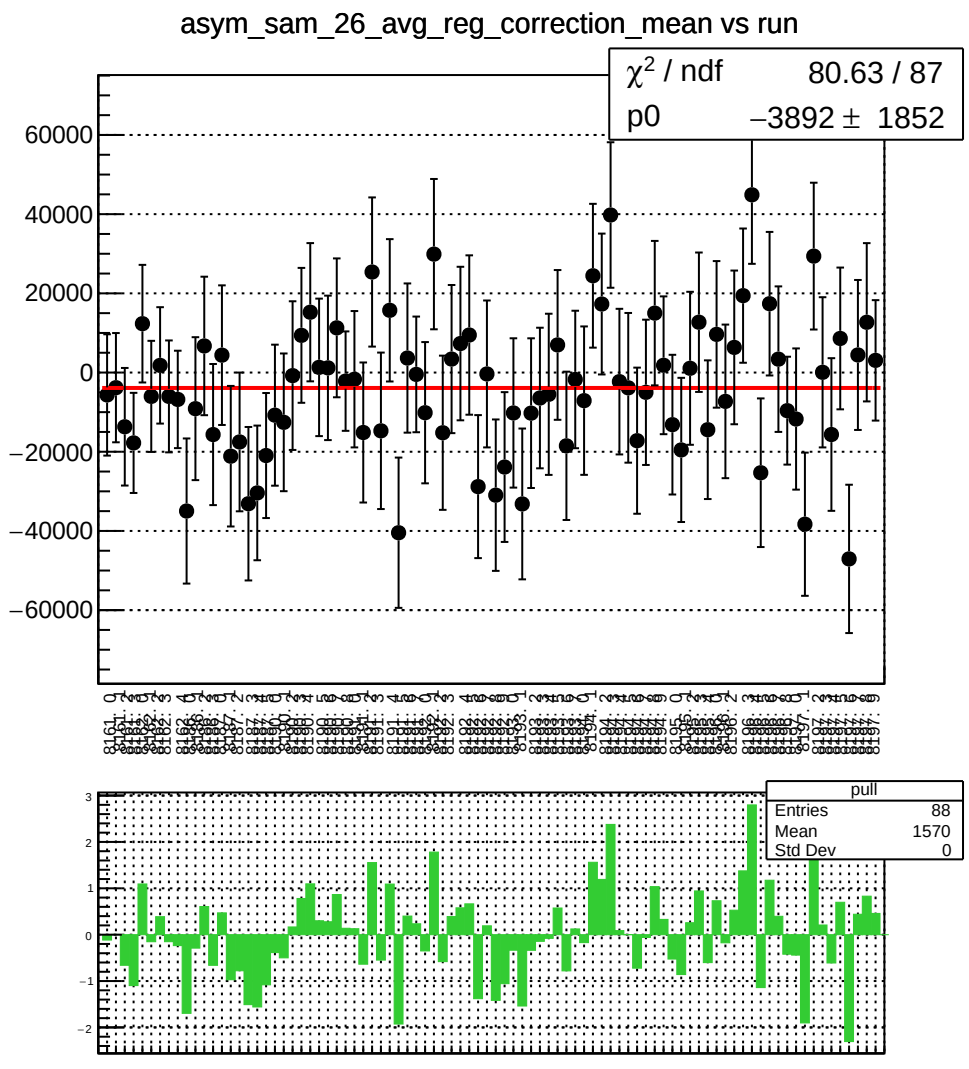

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.539e+04 / 87
p0 29.93 ± 0.0235
55
50
45
40
35
30
25
20

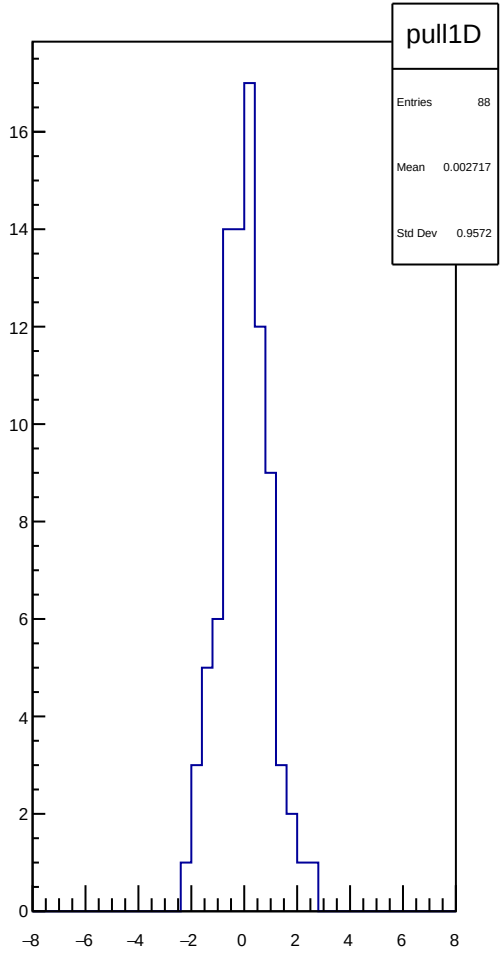

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 107.9 / 87
p0 −1.508e−14 ± 1.573e−14
pull
Entries 88
Mean 52.8
Std Dev 0
pull1D
Entries 88
Mean 0.05911
Std Dev 1.105

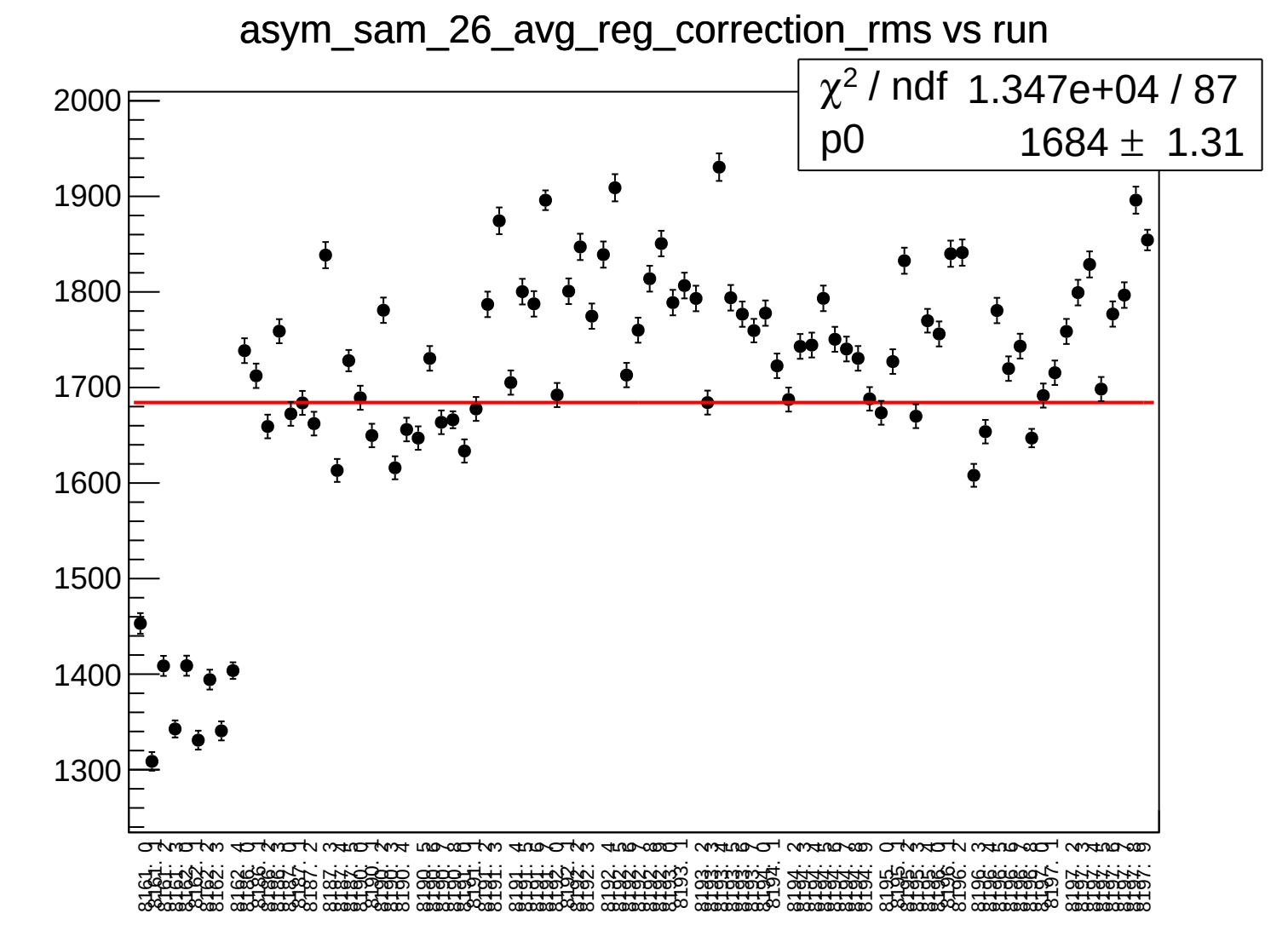

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 5.395e+05 / 87
p0 1.181e−11 ± 1.112e−14

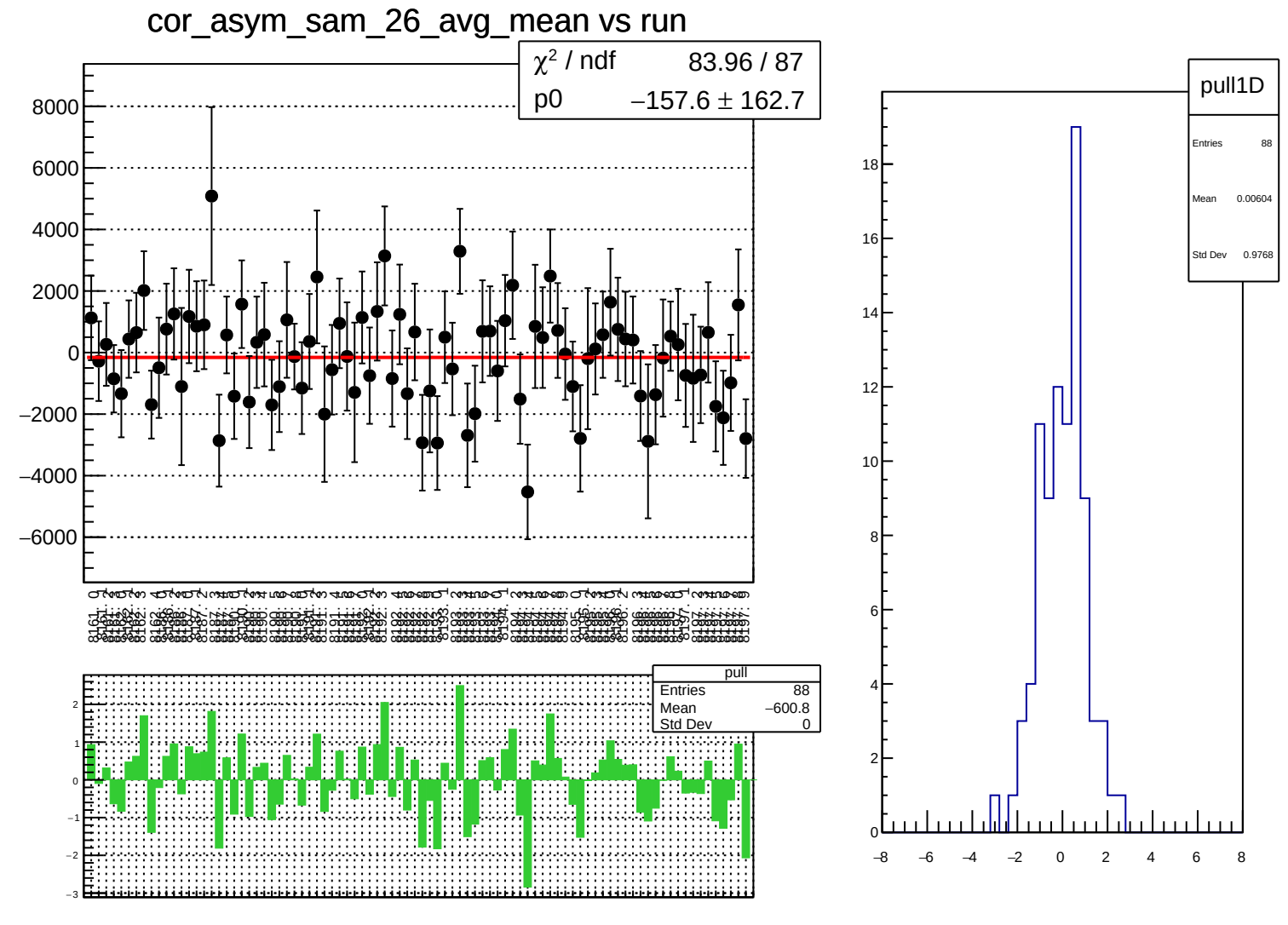

reg_asym_sam_26_avg_mean vs run
χ² / ndf 83.96 / 87
p0 −157.7 ± 162.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −600.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.006042
Std Dev 0.9768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

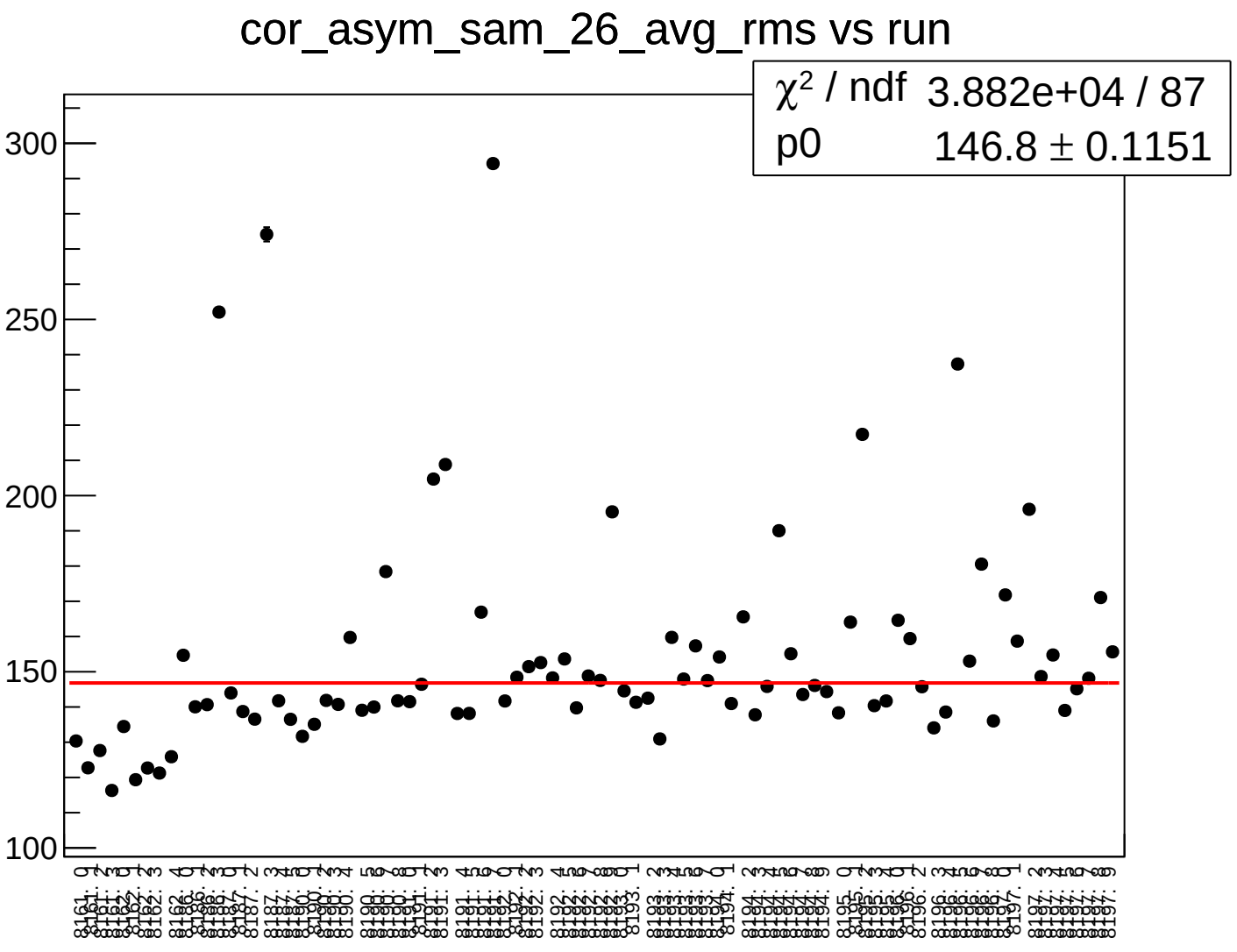

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3.882e+04 / 87
p0 146.8 ± 0.1151
300
250
200
150
100

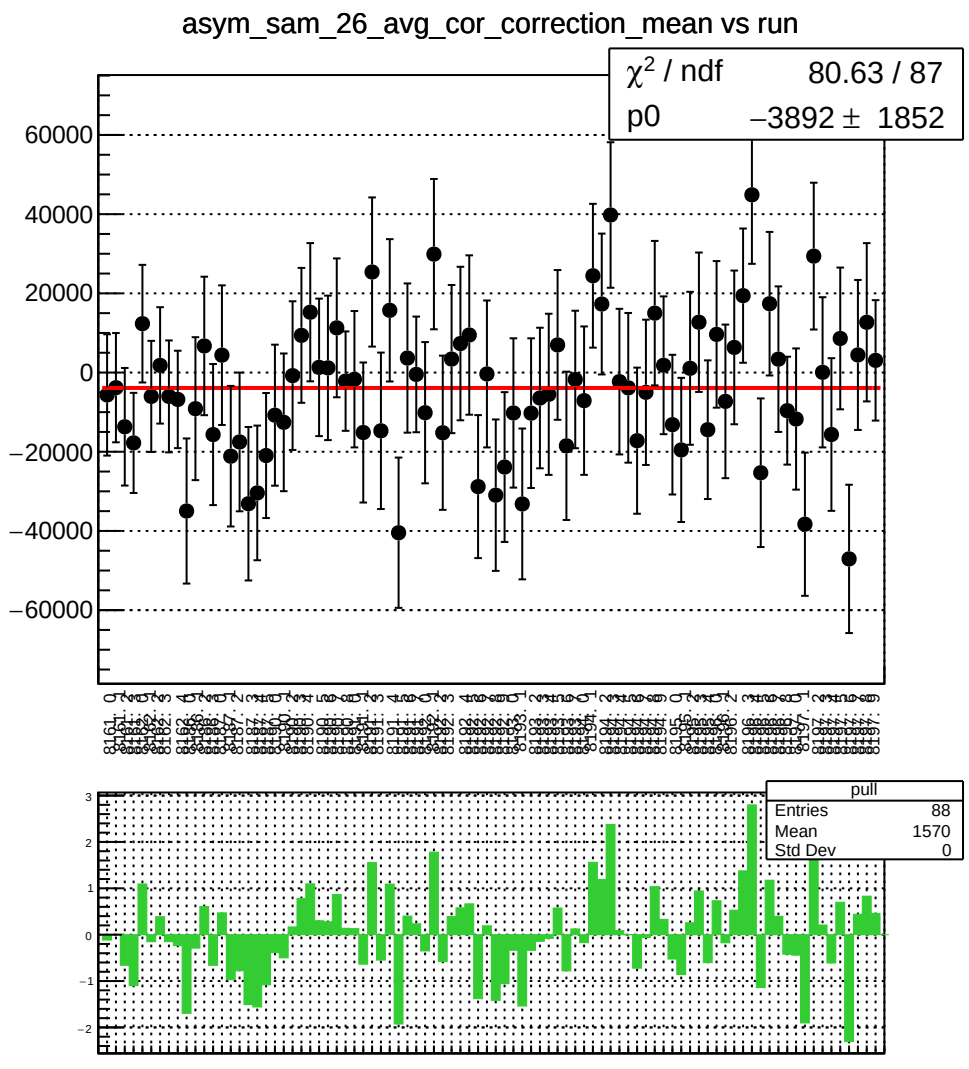

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 80.63 / 87
p0 −3892 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1570
Std Dev 0
3
2
1
0
−1
−2

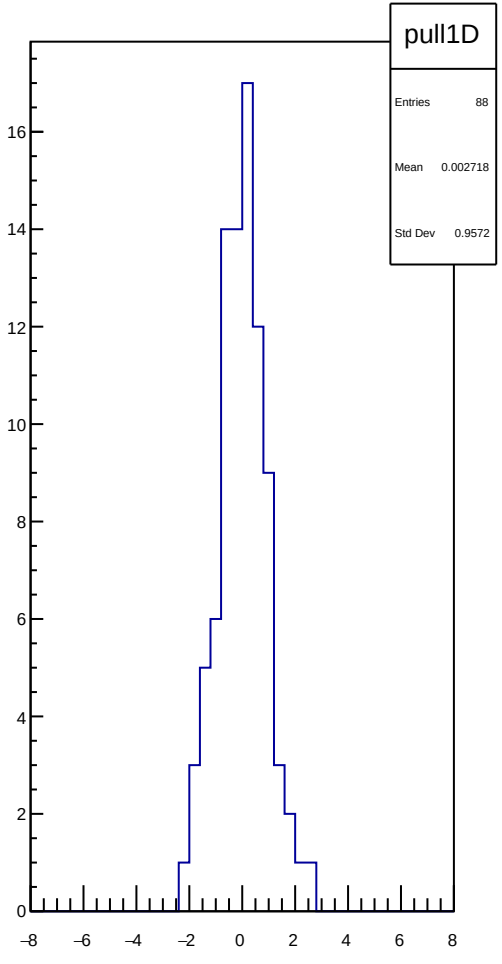

pull1D
Entries 88
Mean 0.002717
Std Dev 0.9572
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.347e+04 / 87
p0 1684 ± 1.31
2000
1900
1800
1700
1600
1500
1400
1300


cor_asym_sam_26_avg_mean vs run
χ² / ndf 83.96 / 87
p0 −157.6 ± 162.7
pull
Entries 88
Mean −600.8
Std Dev 0
pull1D
Entries 88
Mean 0.00604
Std Dev 0.9768


cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.882e+04 / 87
p0 146.8 ± 0.1151
300
250
200
150
100


asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 80.63 / 87
p0 −3892 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1570
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.002718
Std Dev 0.9572
16
14
12
10
8
6
4
2
0
−8
−6
−4
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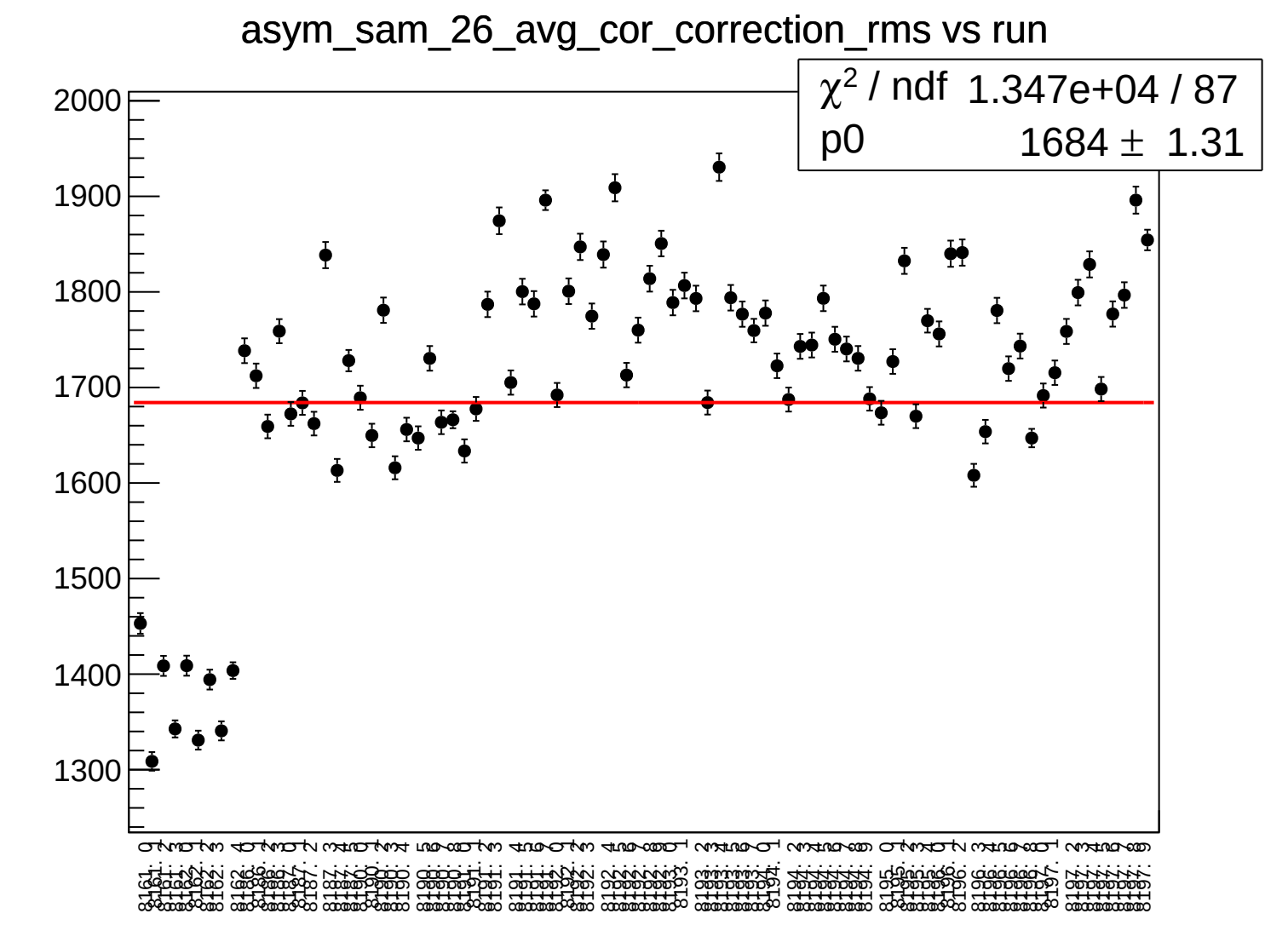
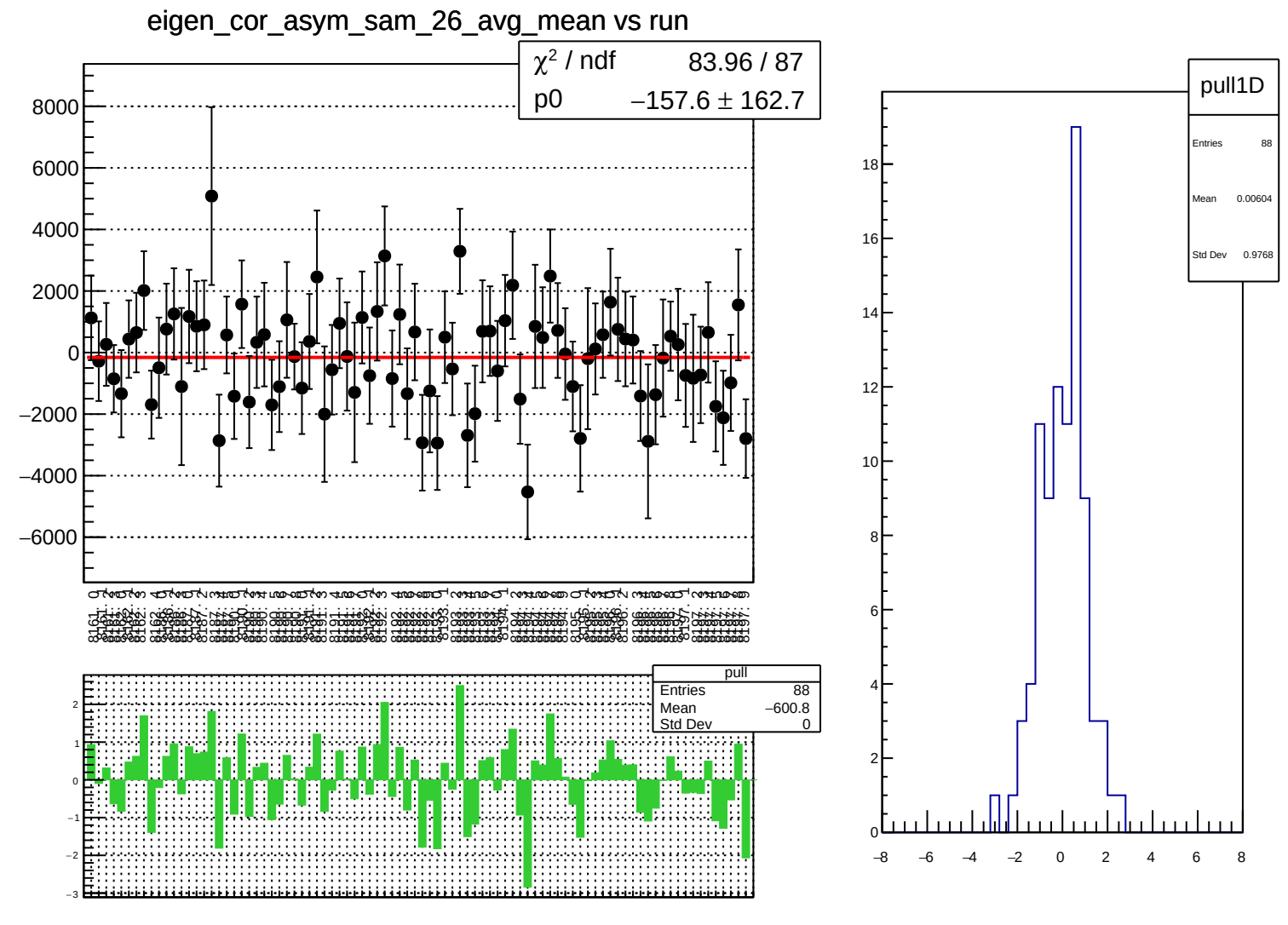
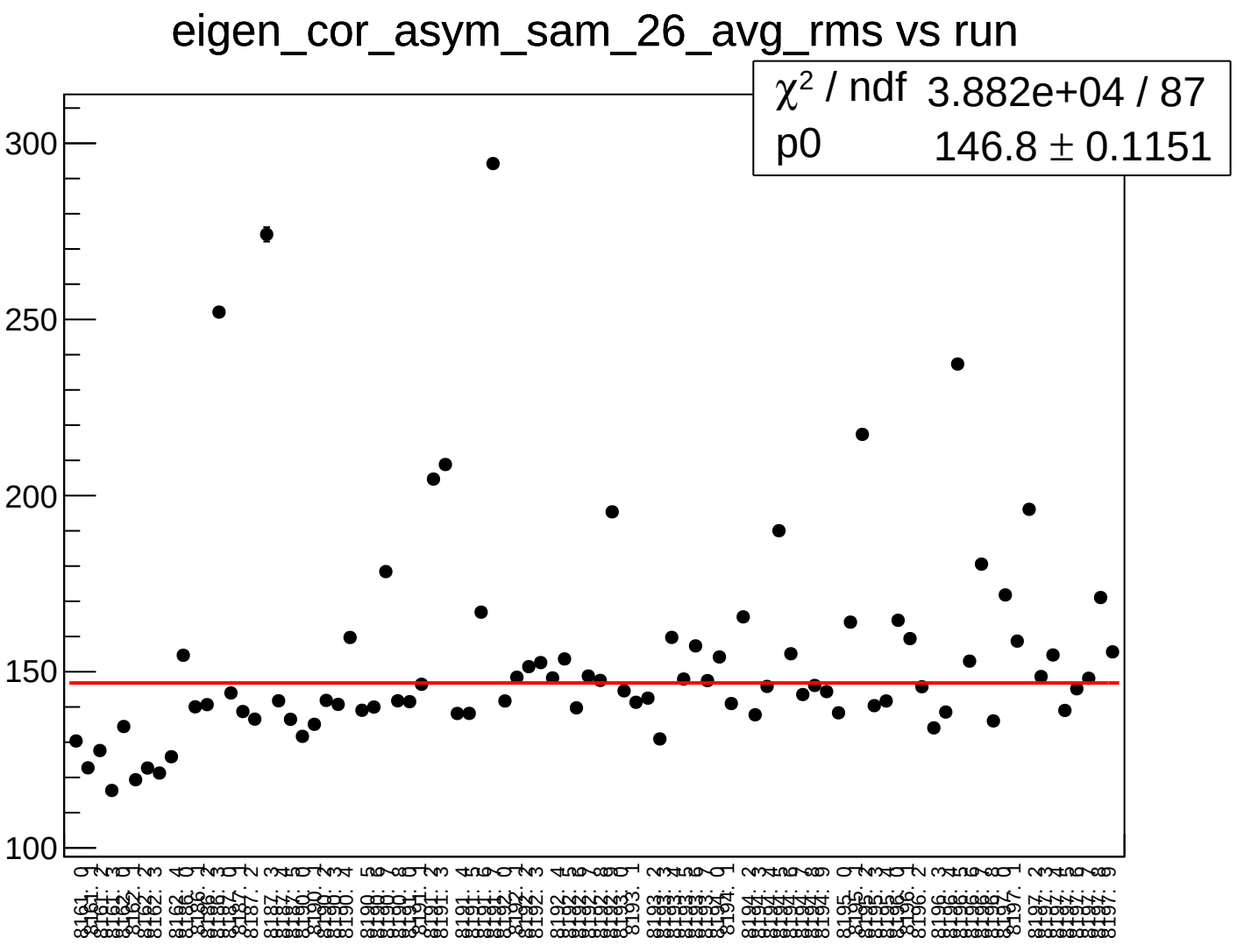
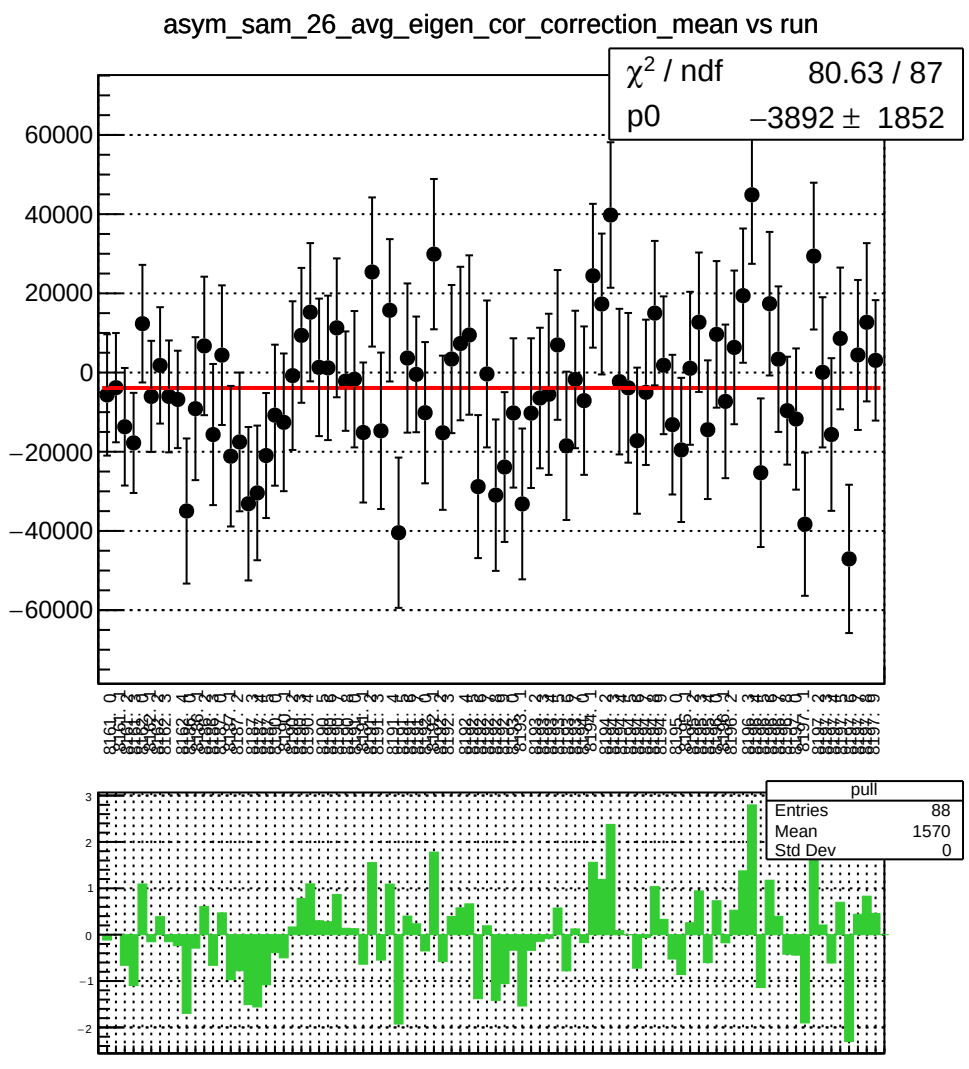
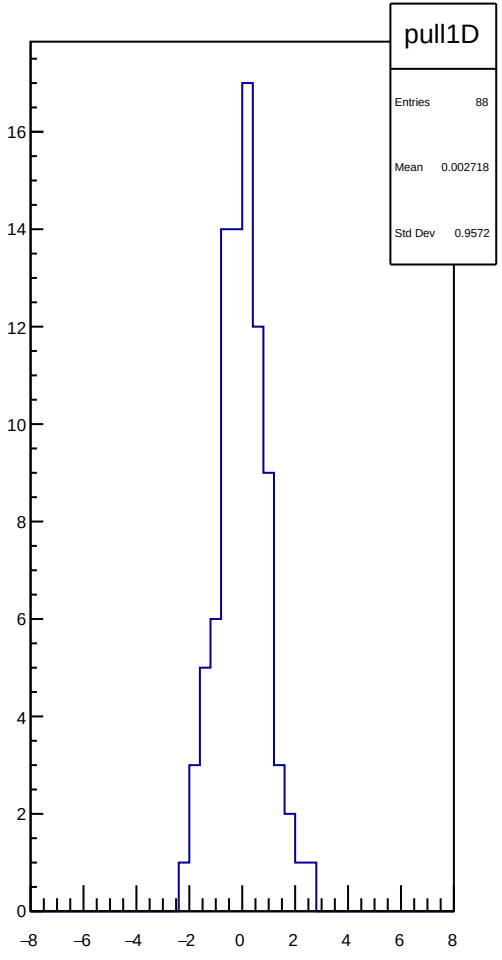
0
2
4
6
8

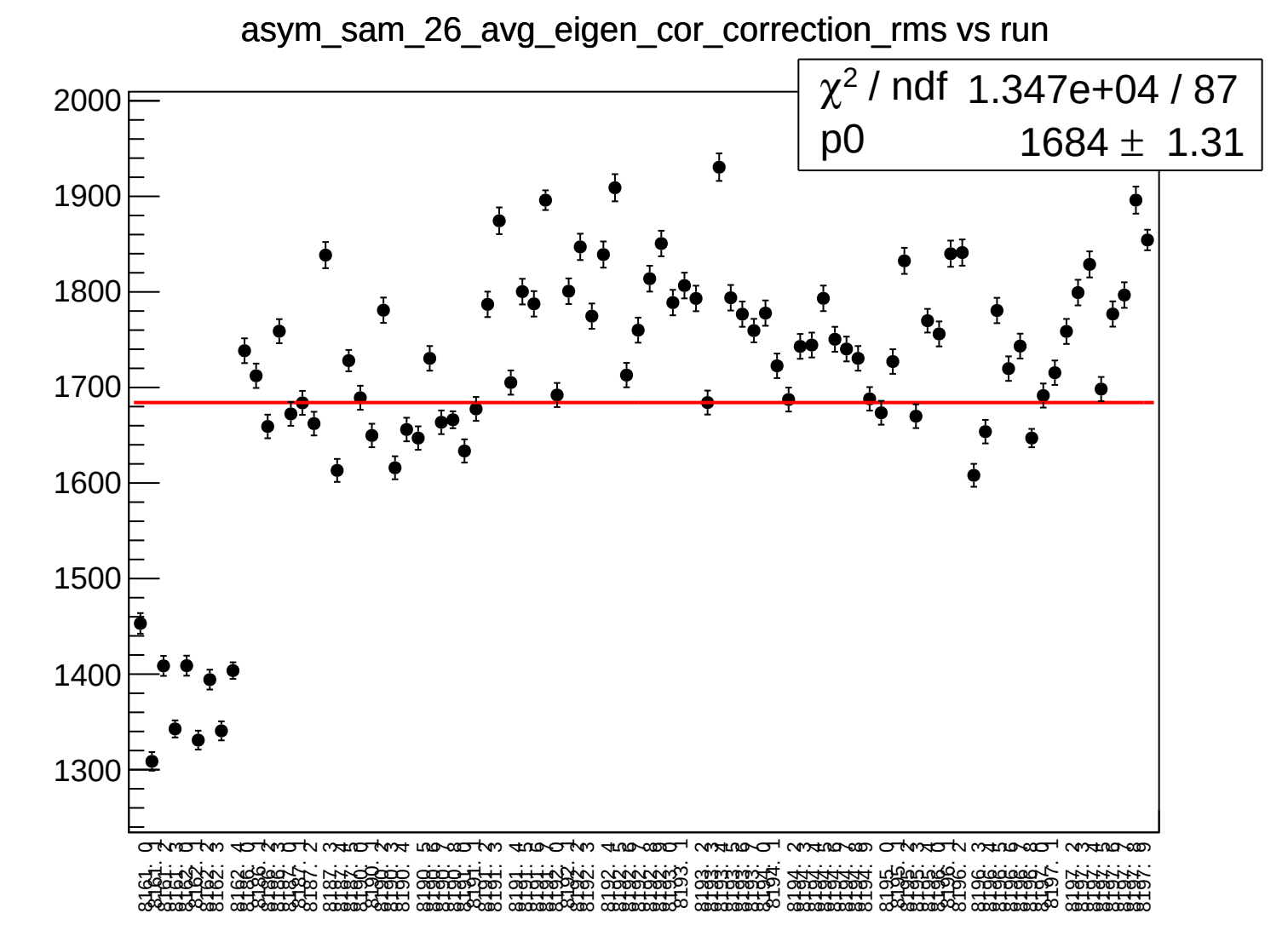

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.347e+04 / 87
p0 1684 ± 1.31
2000
1900
1800
1700
1600
1500
1400
1300

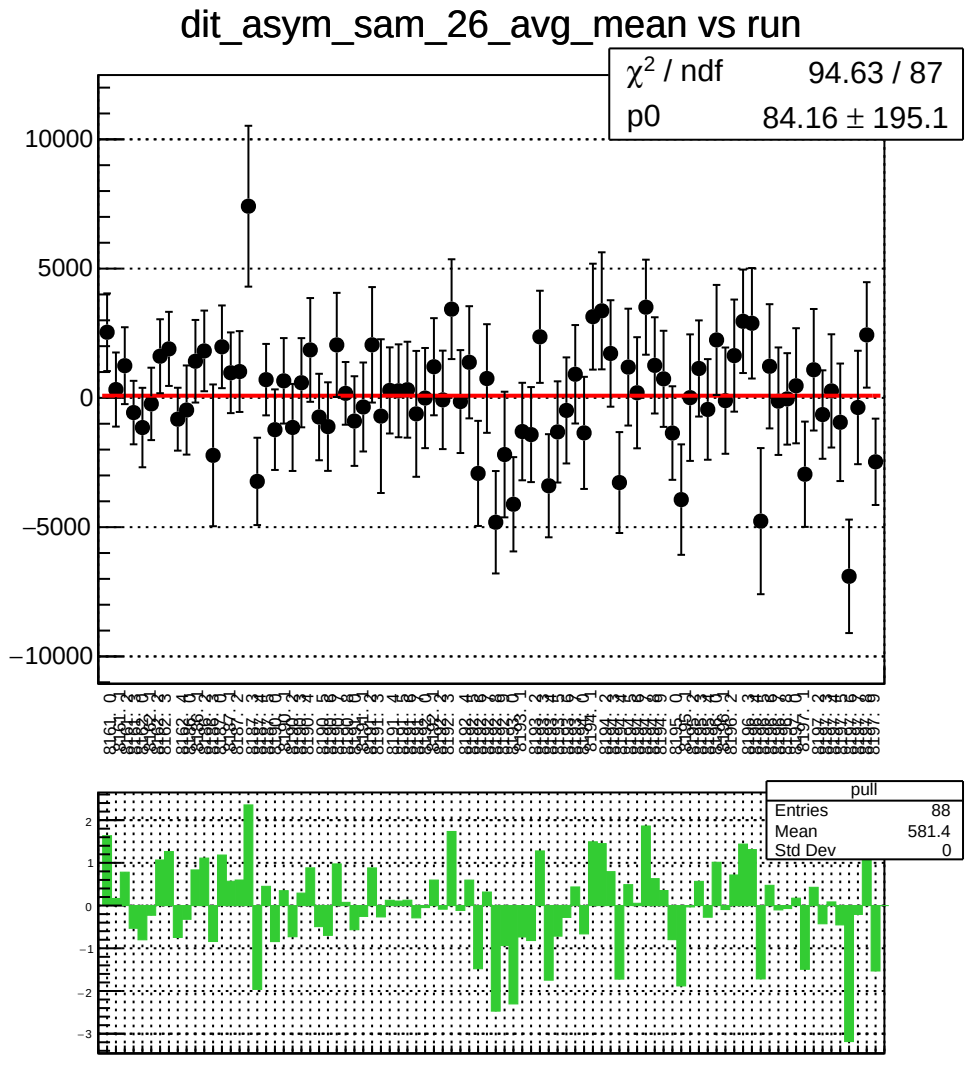

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 83.96 / 87
p0 −157.6 ± 162.7
pull
Entries 88
Mean −600.8
Std Dev 0
pull1D
Entries 88
Mean 0.00604
Std Dev 0.9768

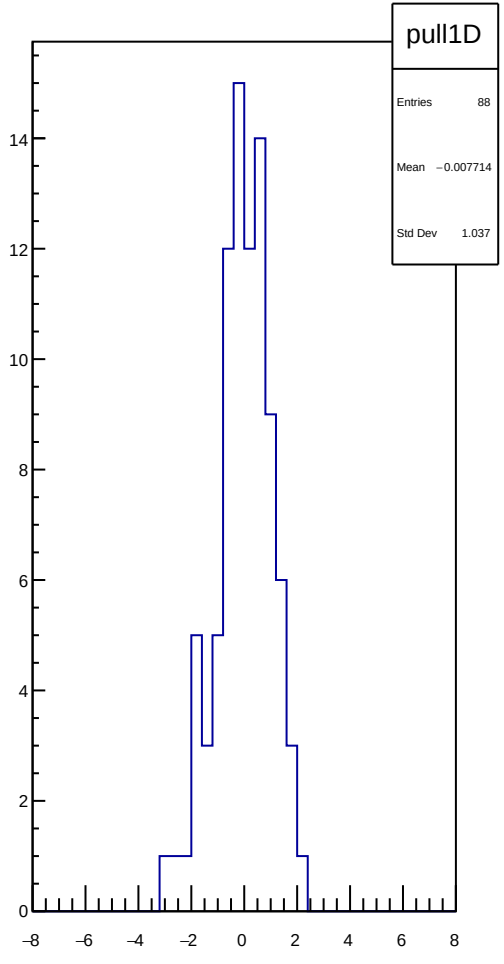

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.882e+04 / 87
p0 146.8 ± 0.1151
300
250
200
150
100

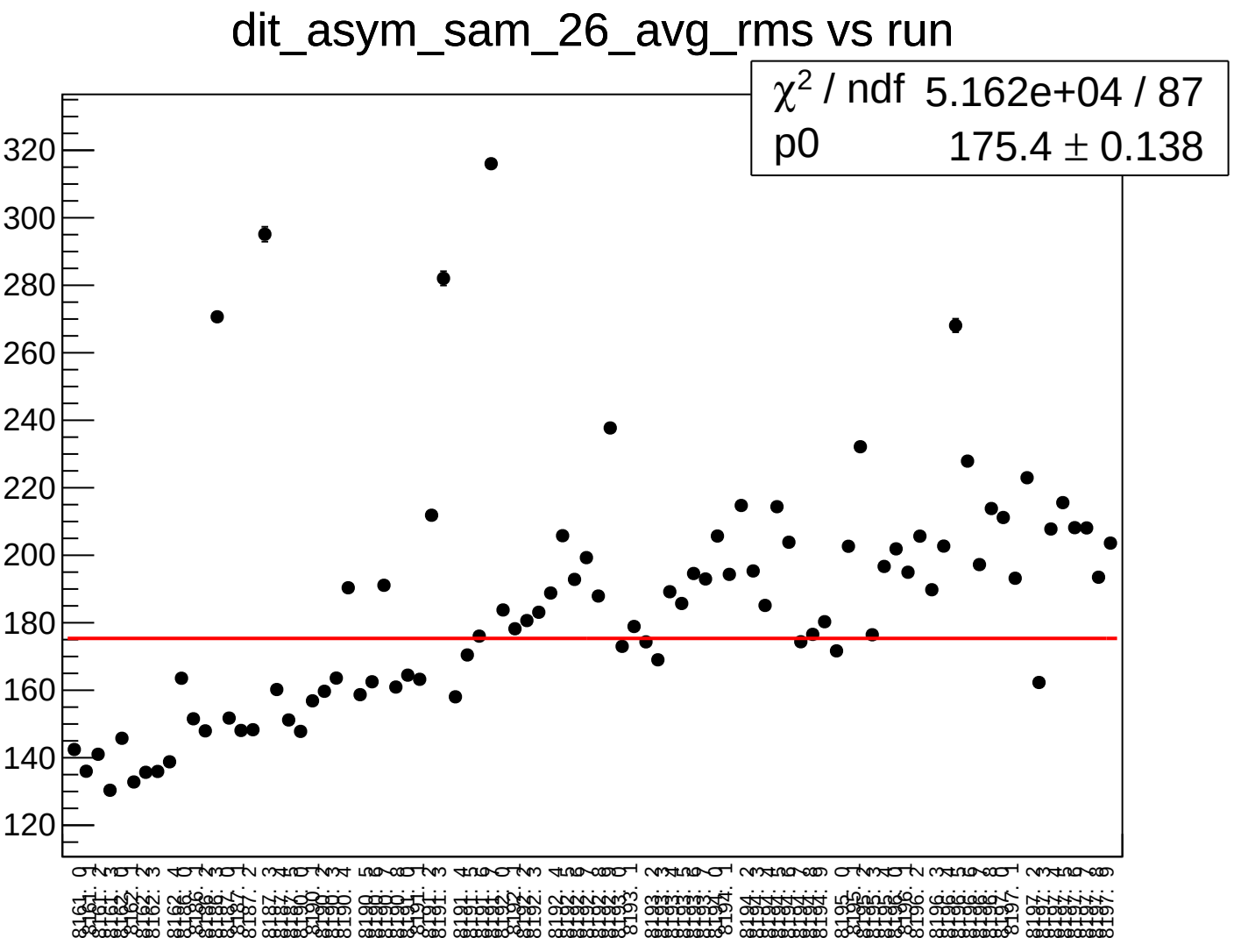

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.63 / 87
p0 −3892 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1570
Std Dev 0
3
2
1
0
−1
−2

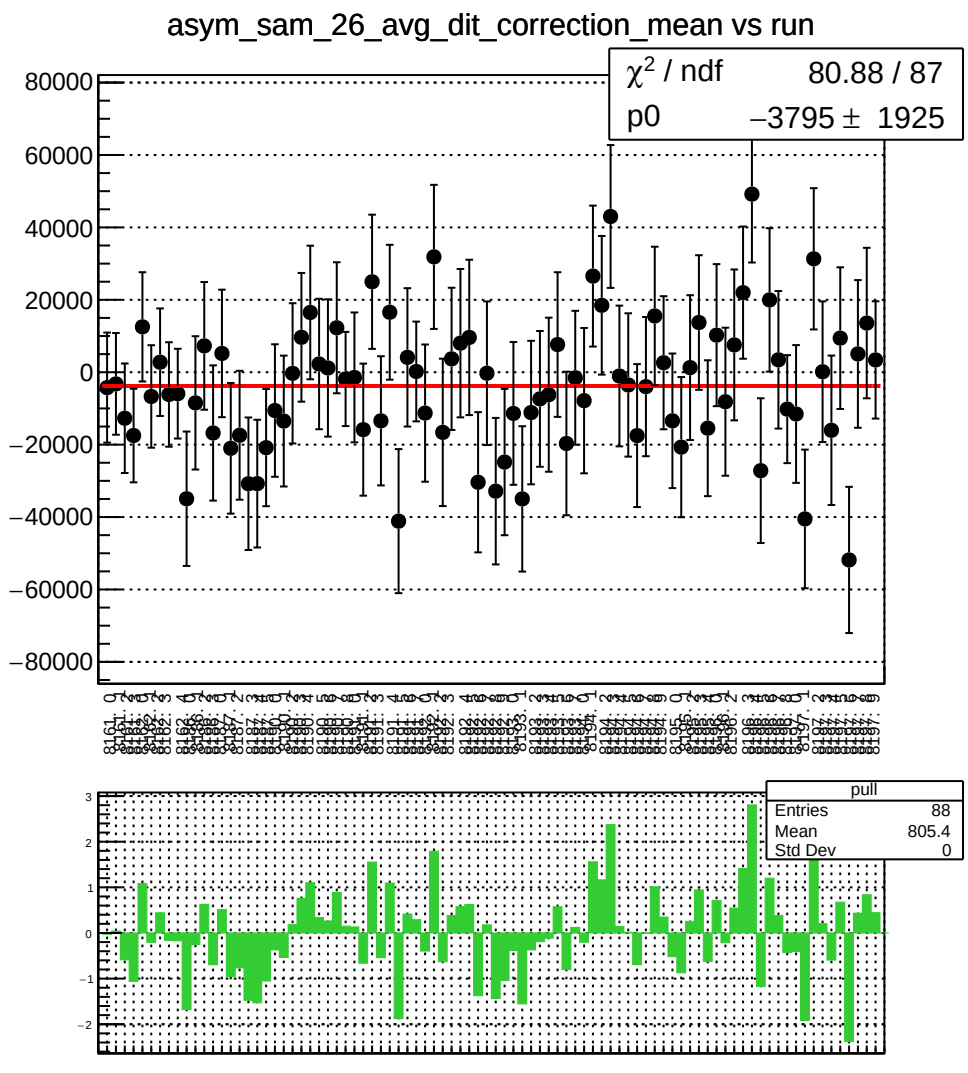

pull1D
Entries 88
Mean 0.002718
Std Dev 0.9572
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

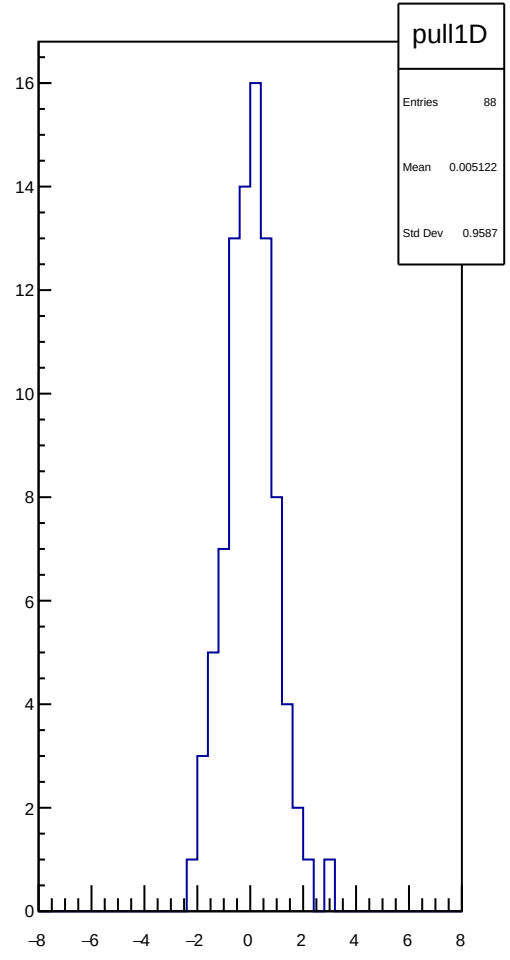

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.347e+04 / 87
p0 1684 ± 1.31
2000
1900
1800
1700
1600
1500
1400
1300

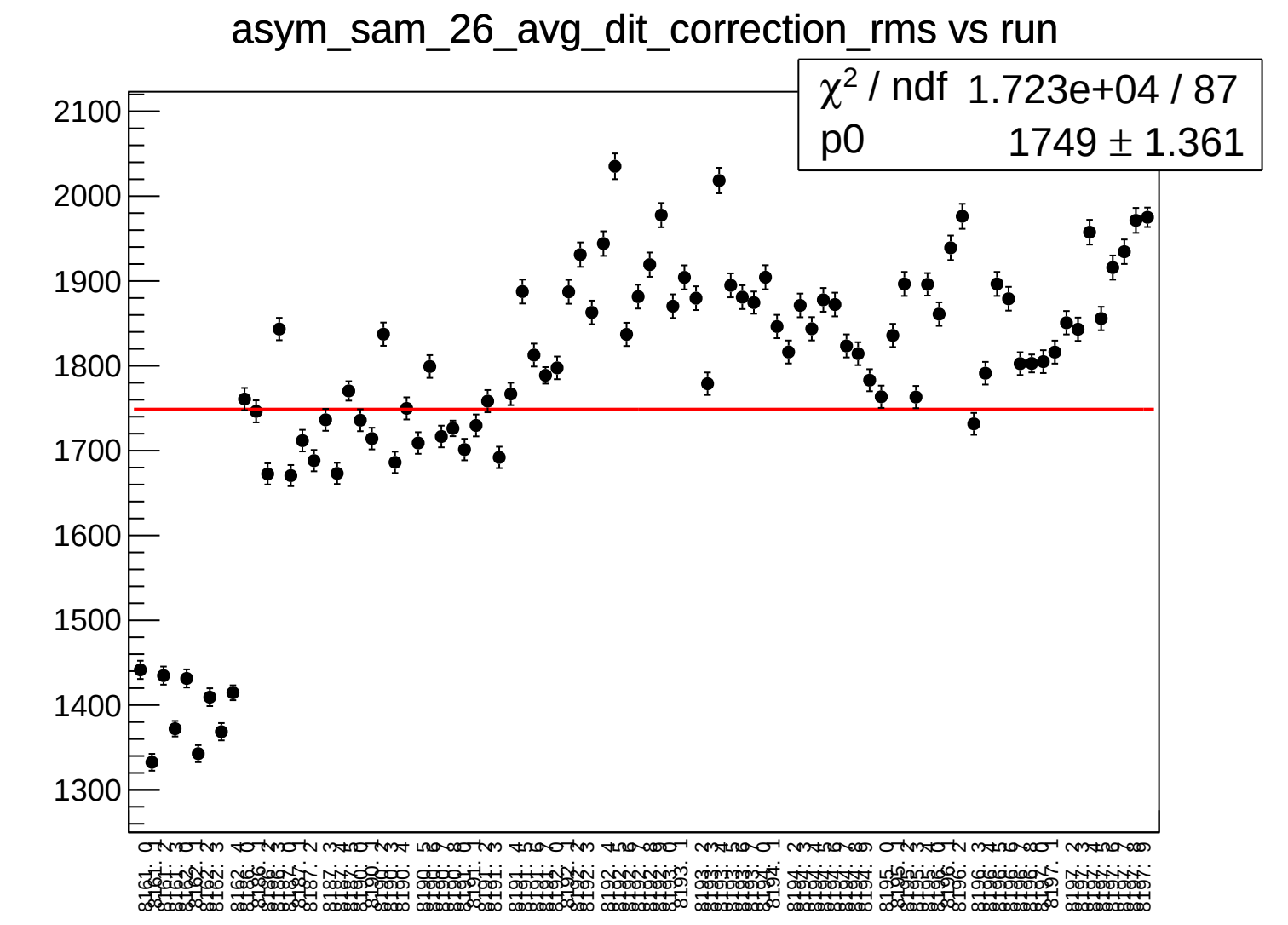

dit_asym_sam_26_avg_mean vs run
χ² / ndf 94.63 / 87
p0 84.16 ± 195.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 581.4
Std Dev 0
2
1
0
−1
−2
−3

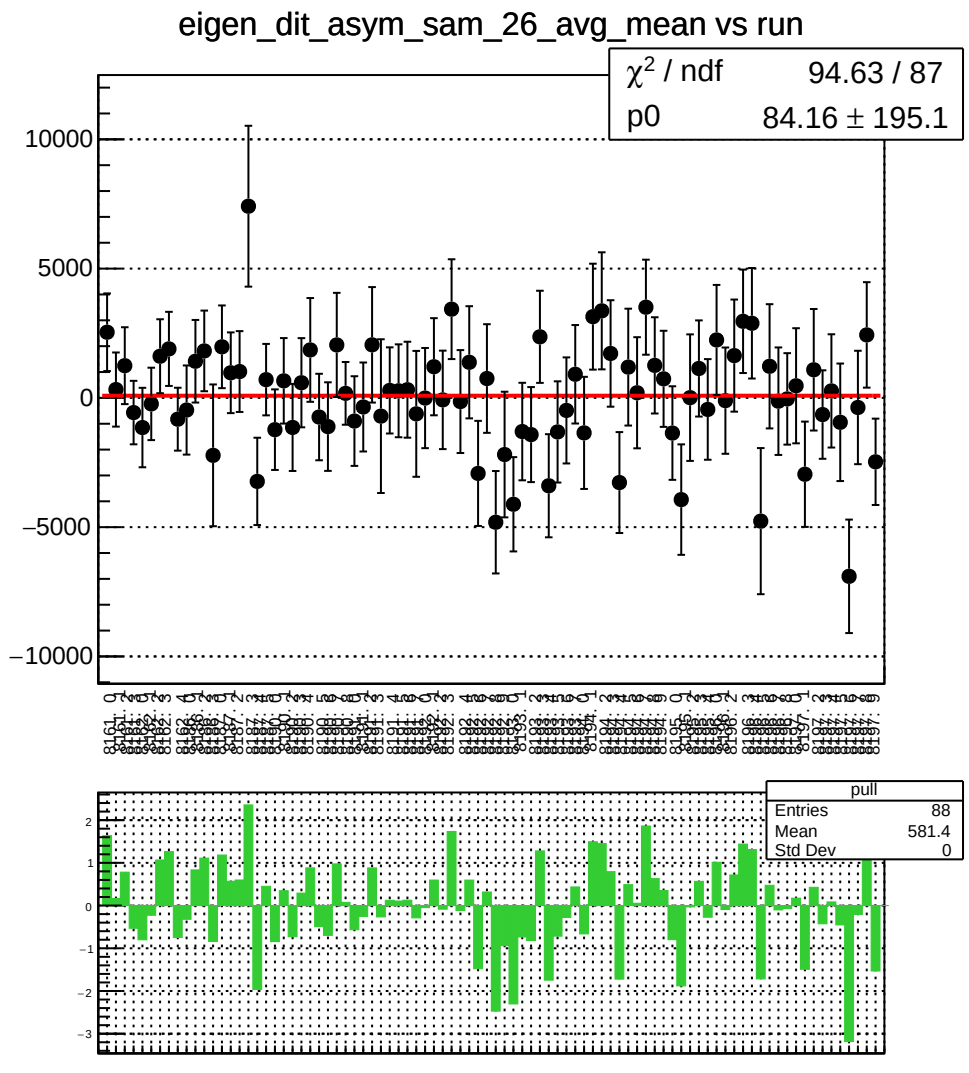

pull1D
Entries 88
Mean −0.007714
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

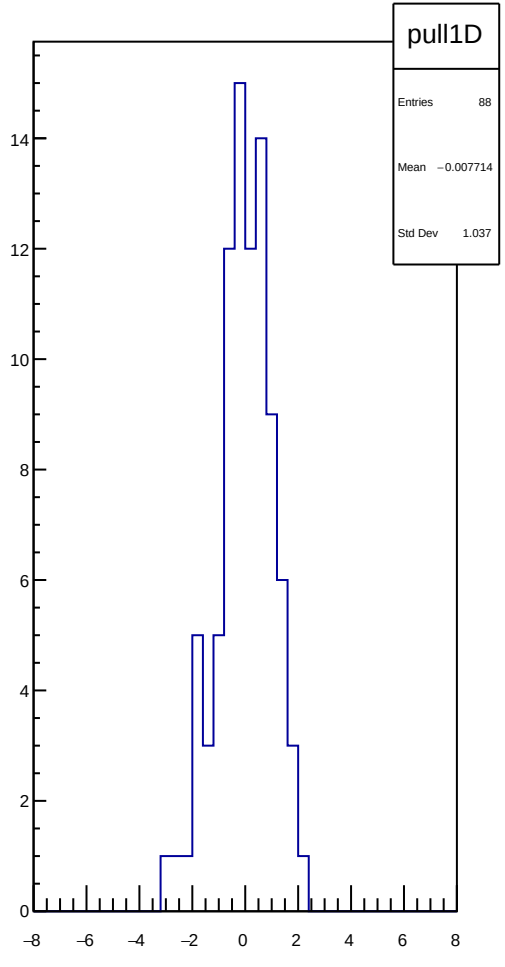

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 5.162e+04 / 87
p0 175.4 ± 0.138
320
300
280
260
240
220
200
180
160
140
120

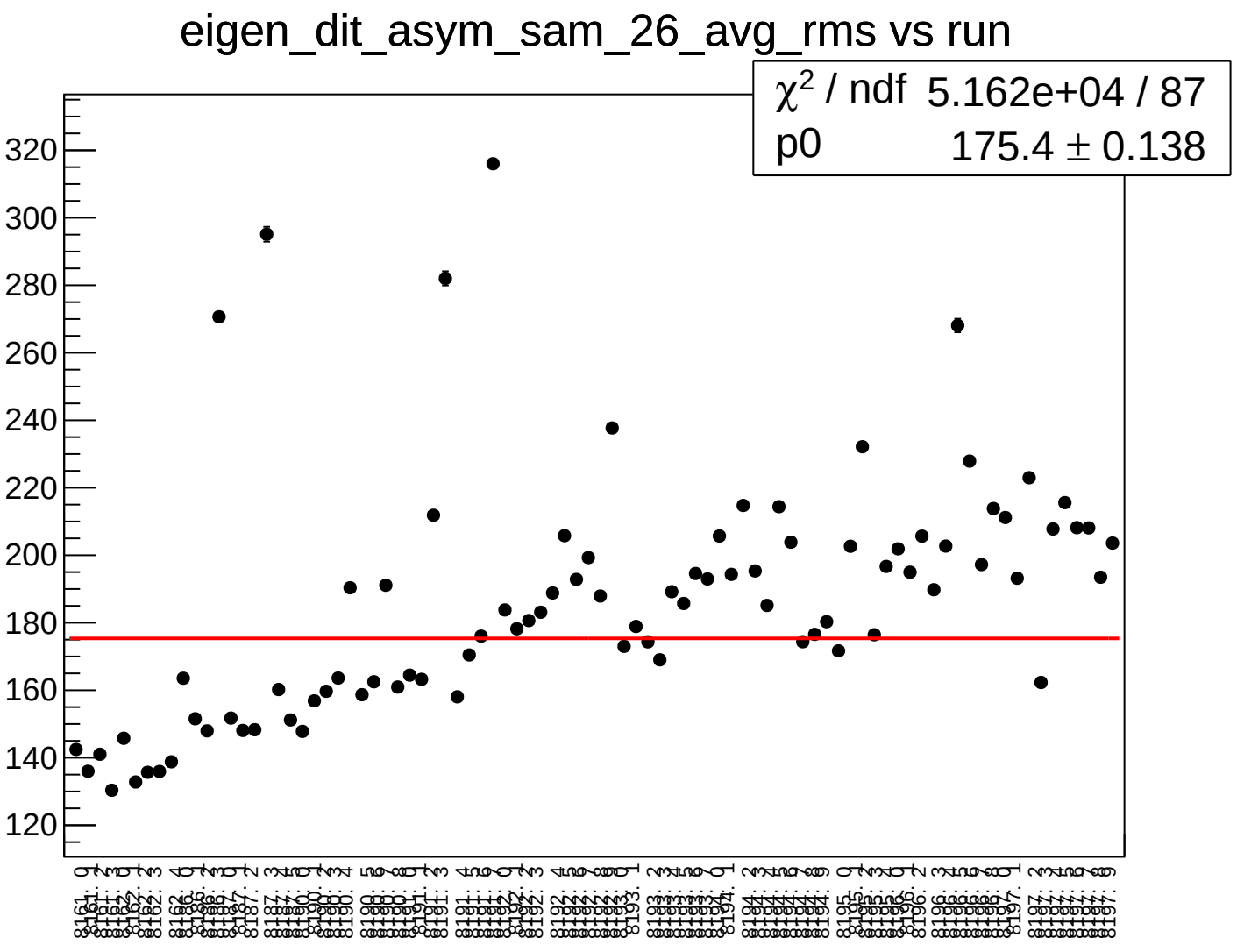

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 80.88 / 87
p0 −3795 ± 1925
pull
Entries 88
Mean 805.4
Std Dev 0

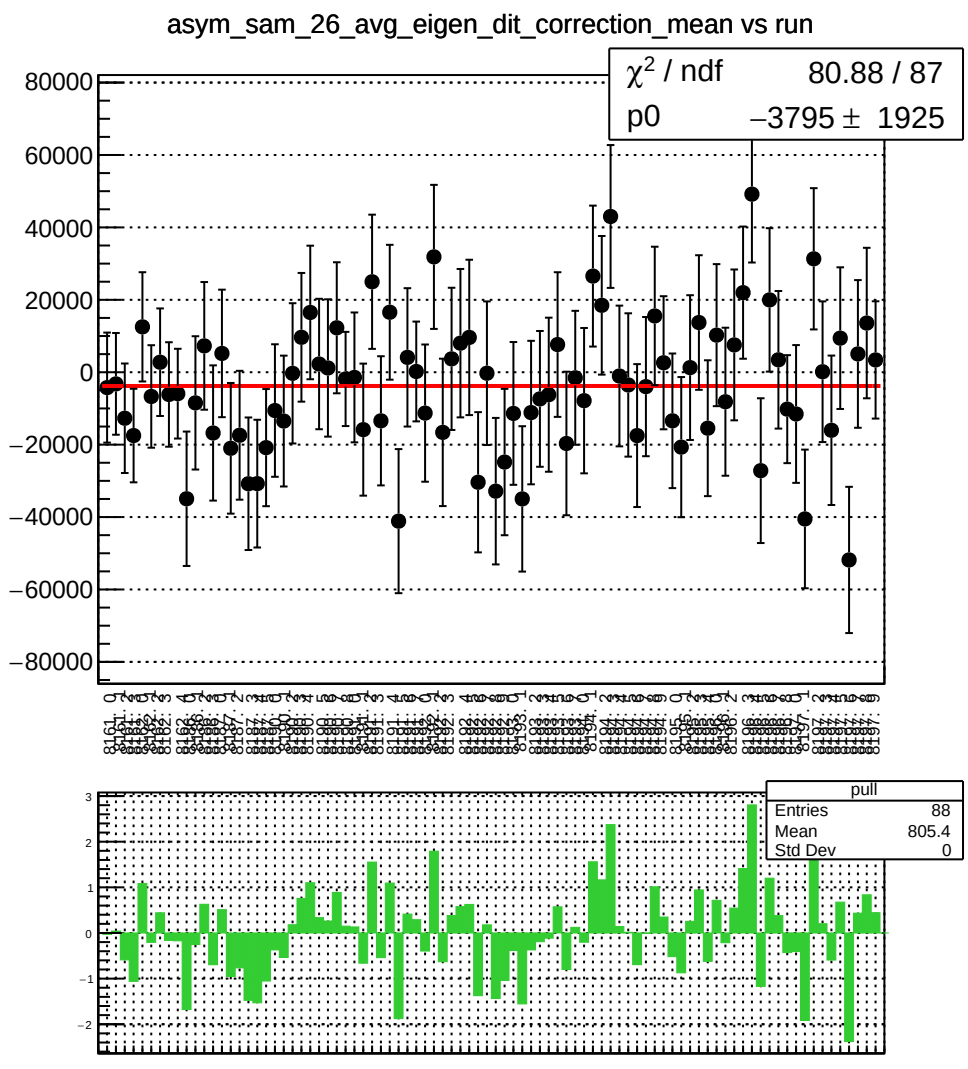

pull1D
Entries 88
Mean 0.005122
Std Dev 0.9587

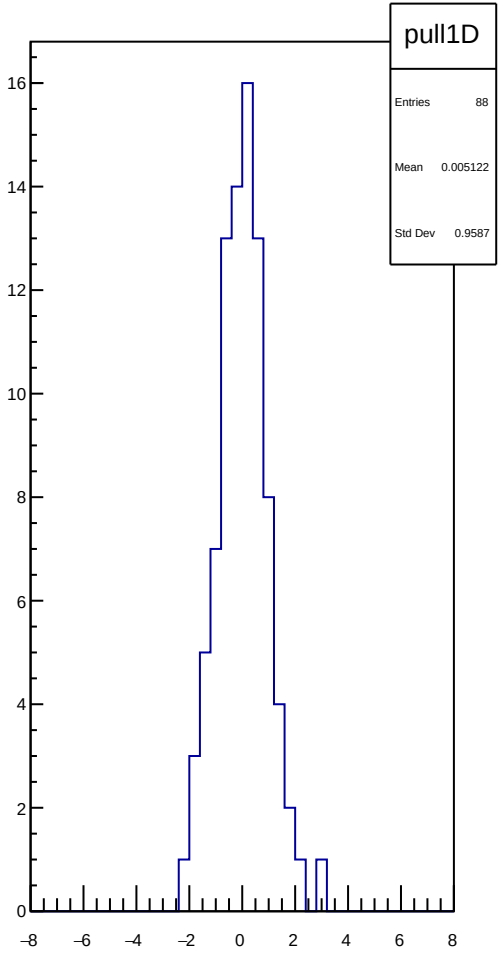

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.723e+04 / 87
p0 1749 ± 1.361
2100
2000
1900
1800
1700
1600
1500
1400
1300

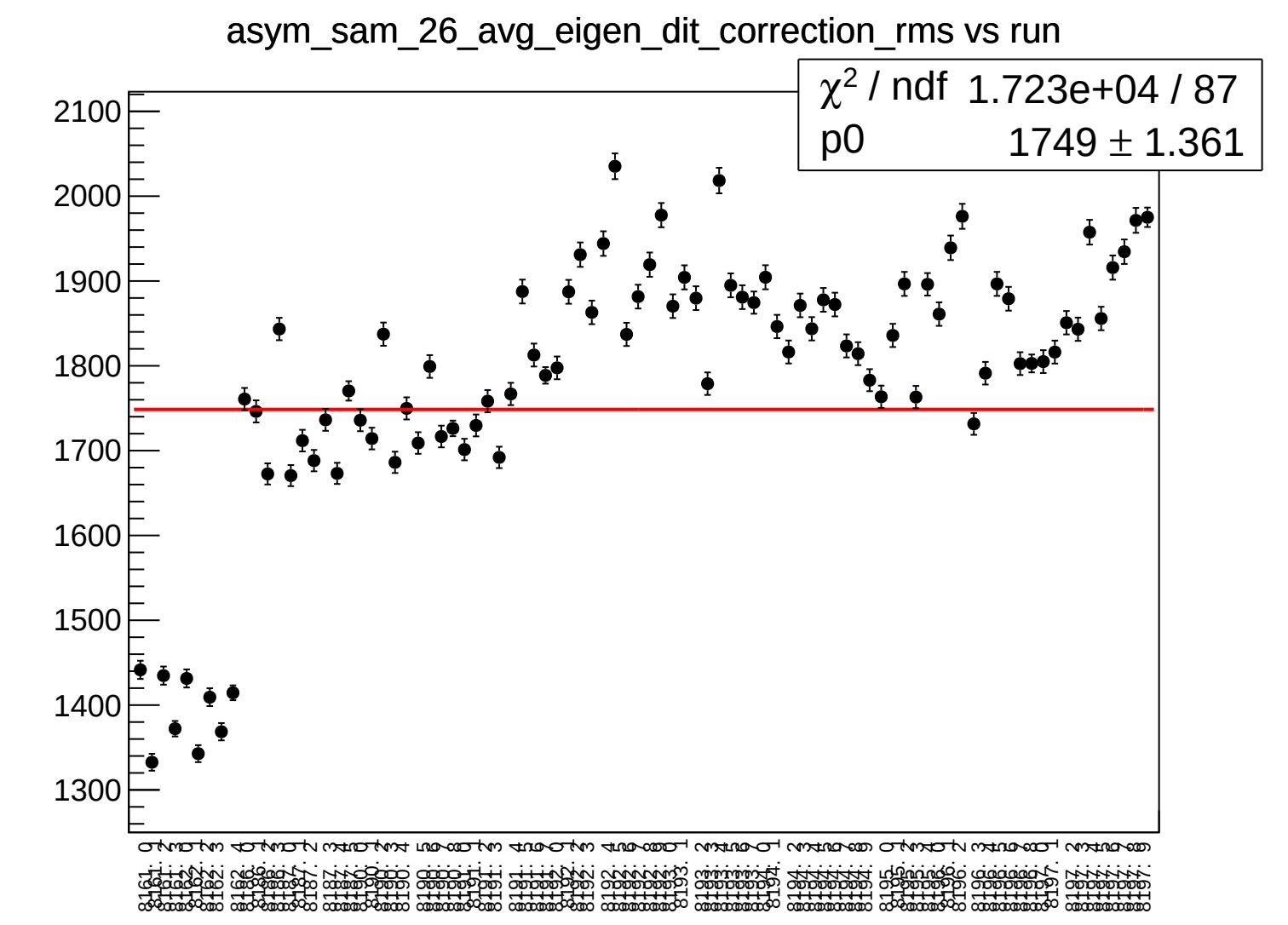

eigen_dit_asym_sam_26_avg_mean vs run
χ^2 / ndf 94.63 / 87
p0 84.16 ± 195.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 581.4
Std Dev 0
2
1
0
−1
−2
−3

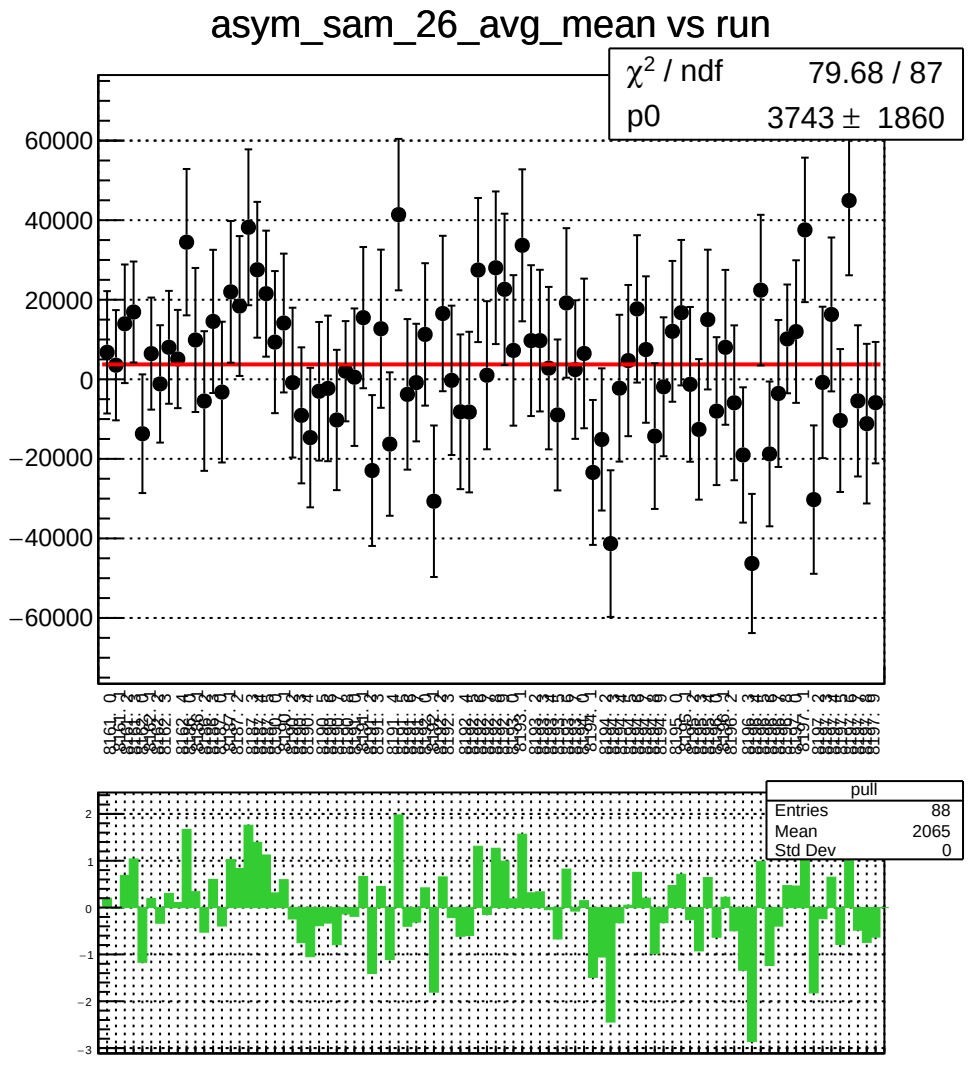

pull1D
Entries 88
Mean −0.007714
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

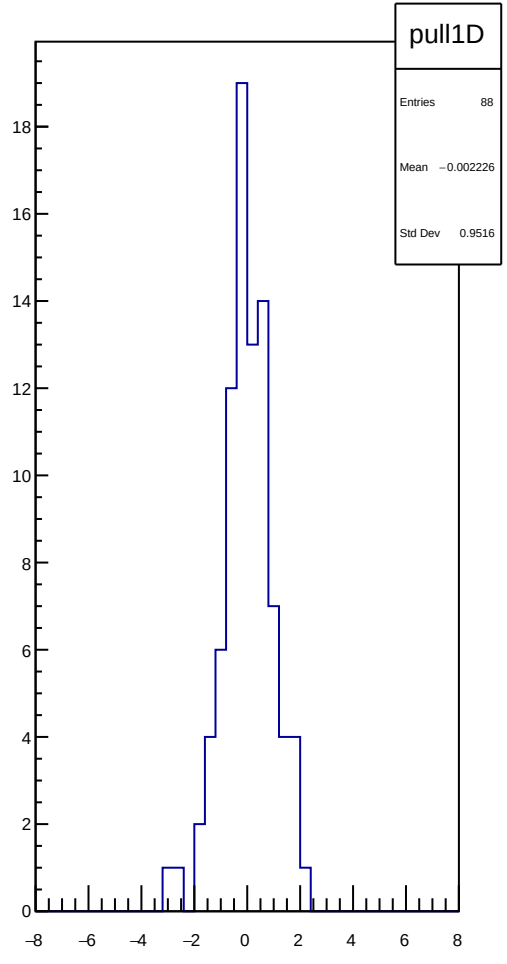

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 5.162e+04 / 87
p0 175.4 ± 0.138
320
300
280
260
240
220
200
180
160
140
120

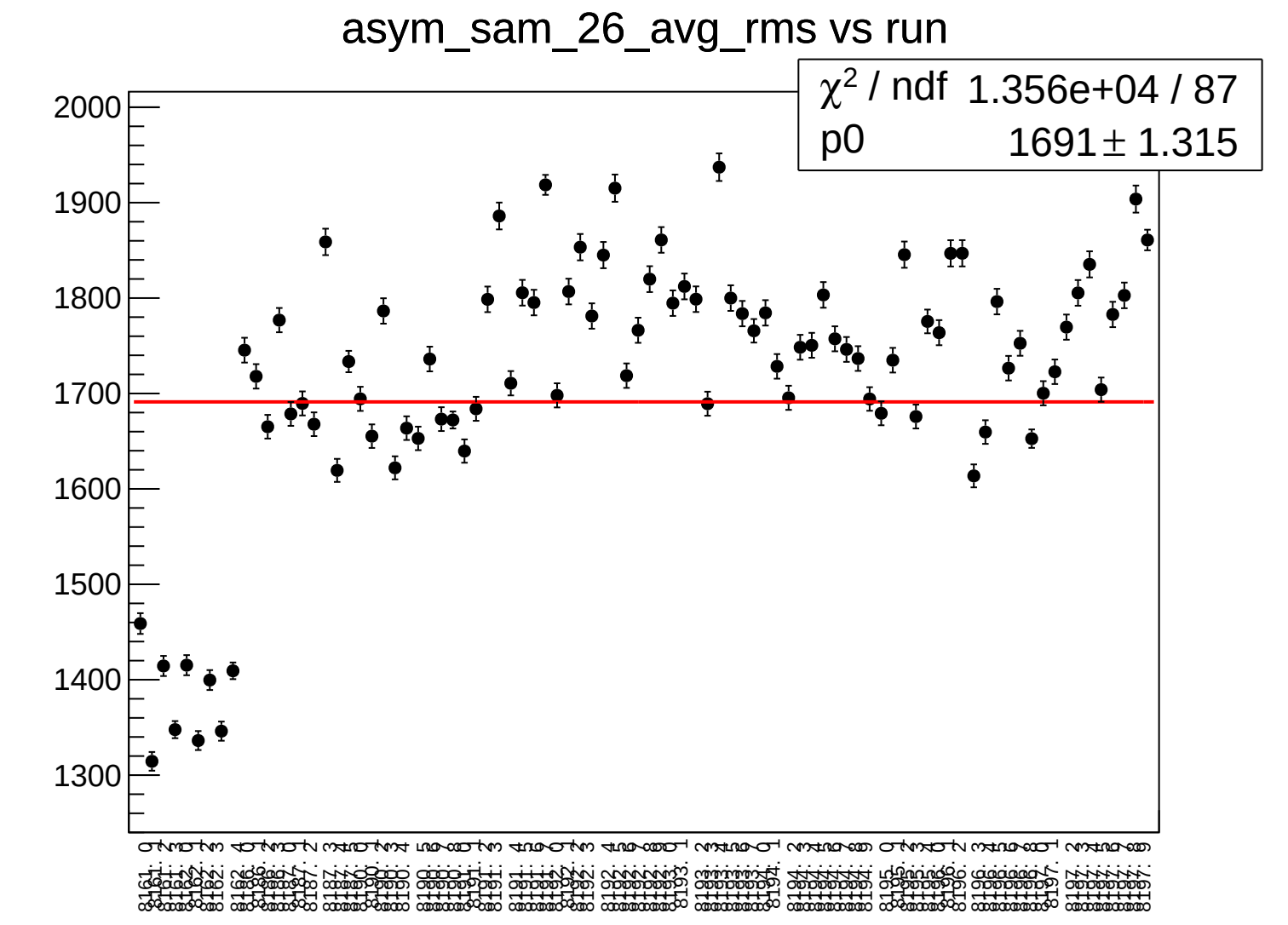

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.88 / 87
p0 −3795 ± 1925
pull
Entries 88
Mean 805.4
Std Dev 0

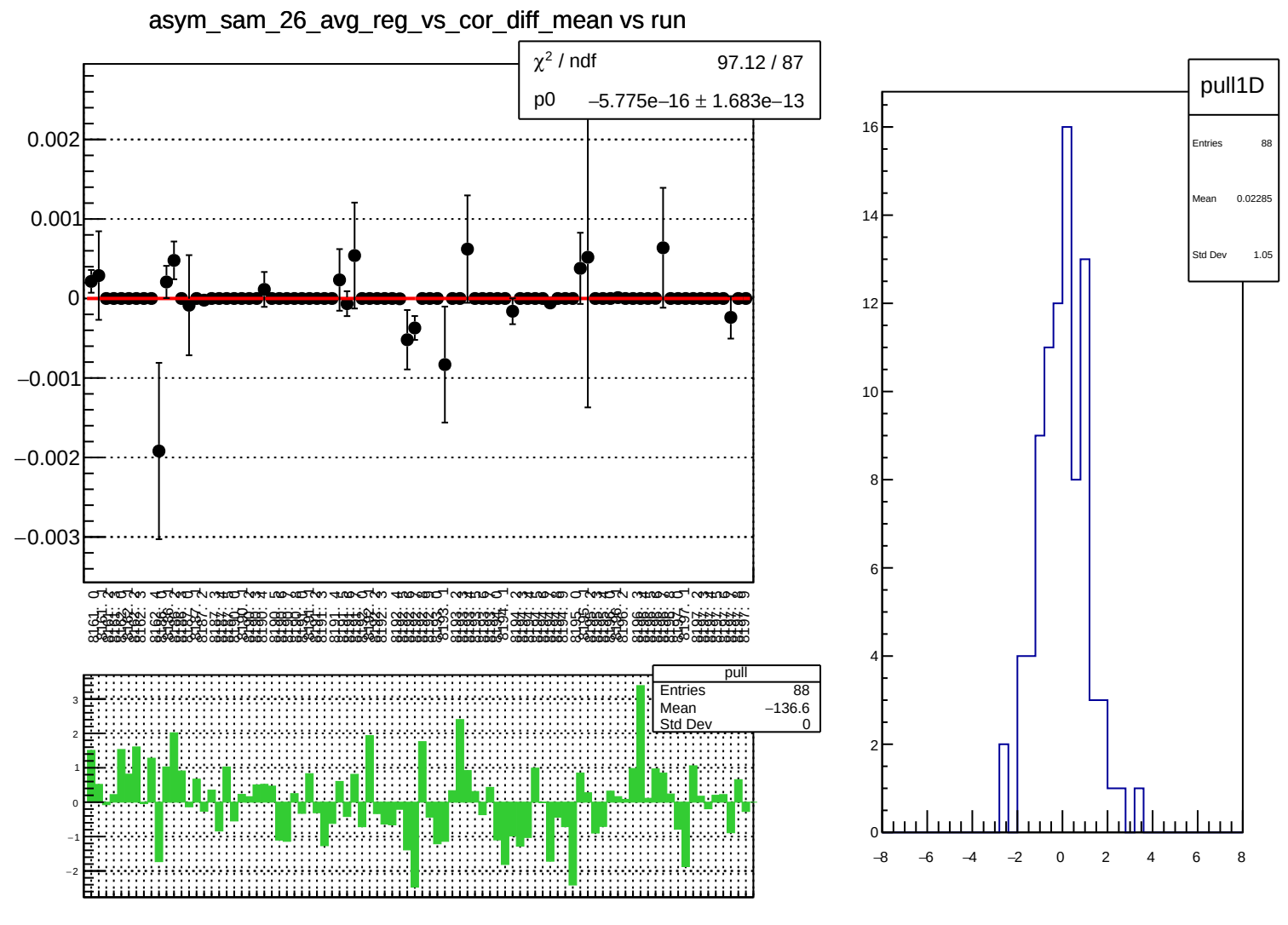

pull1D
Entries 88
Mean 0.005122
Std Dev 0.9587

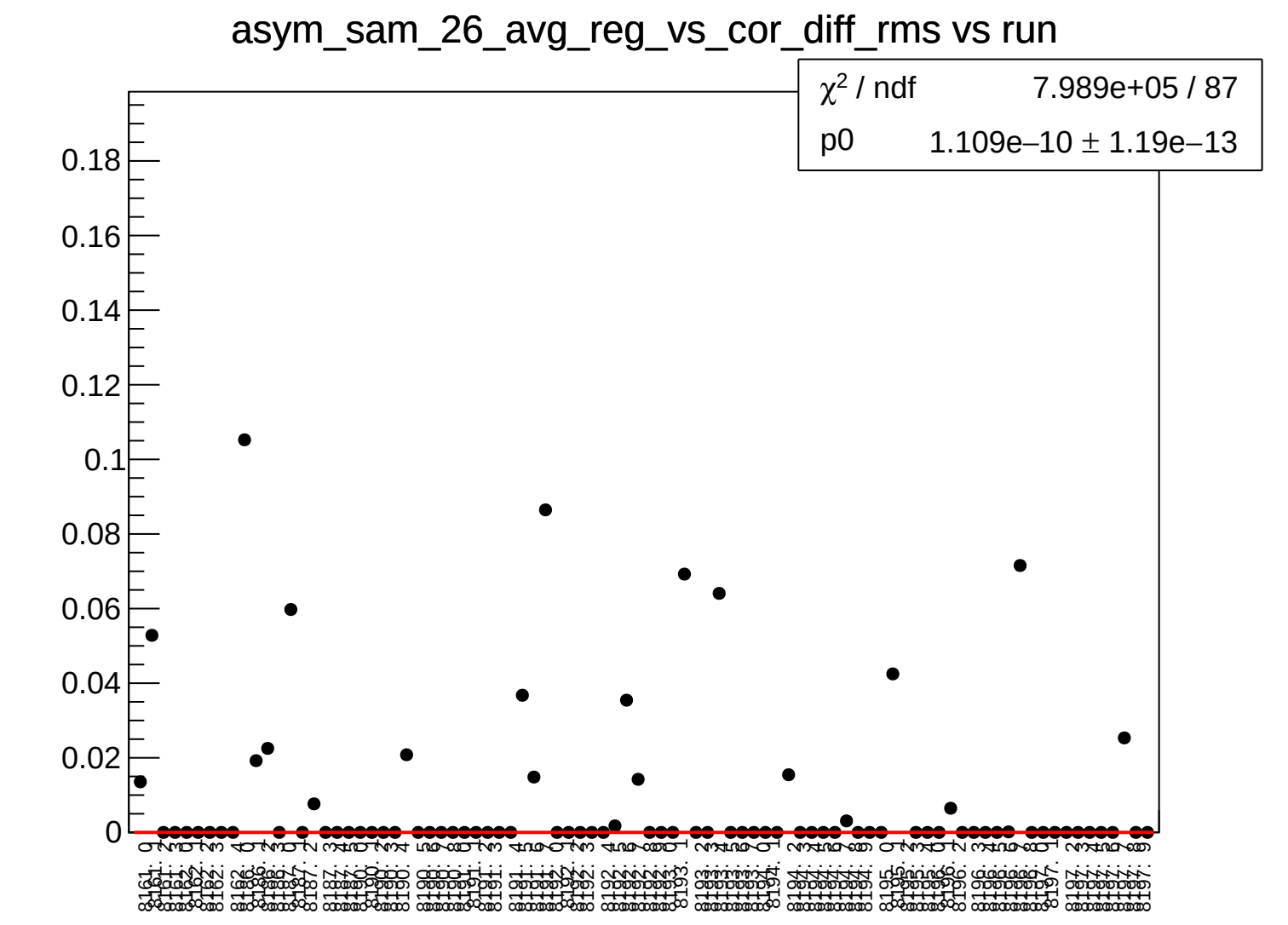

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.723e+04 / 87
p0 1749 ± 1.361
2100
2000
1900
1800
1700
1600
1500
1400
1300

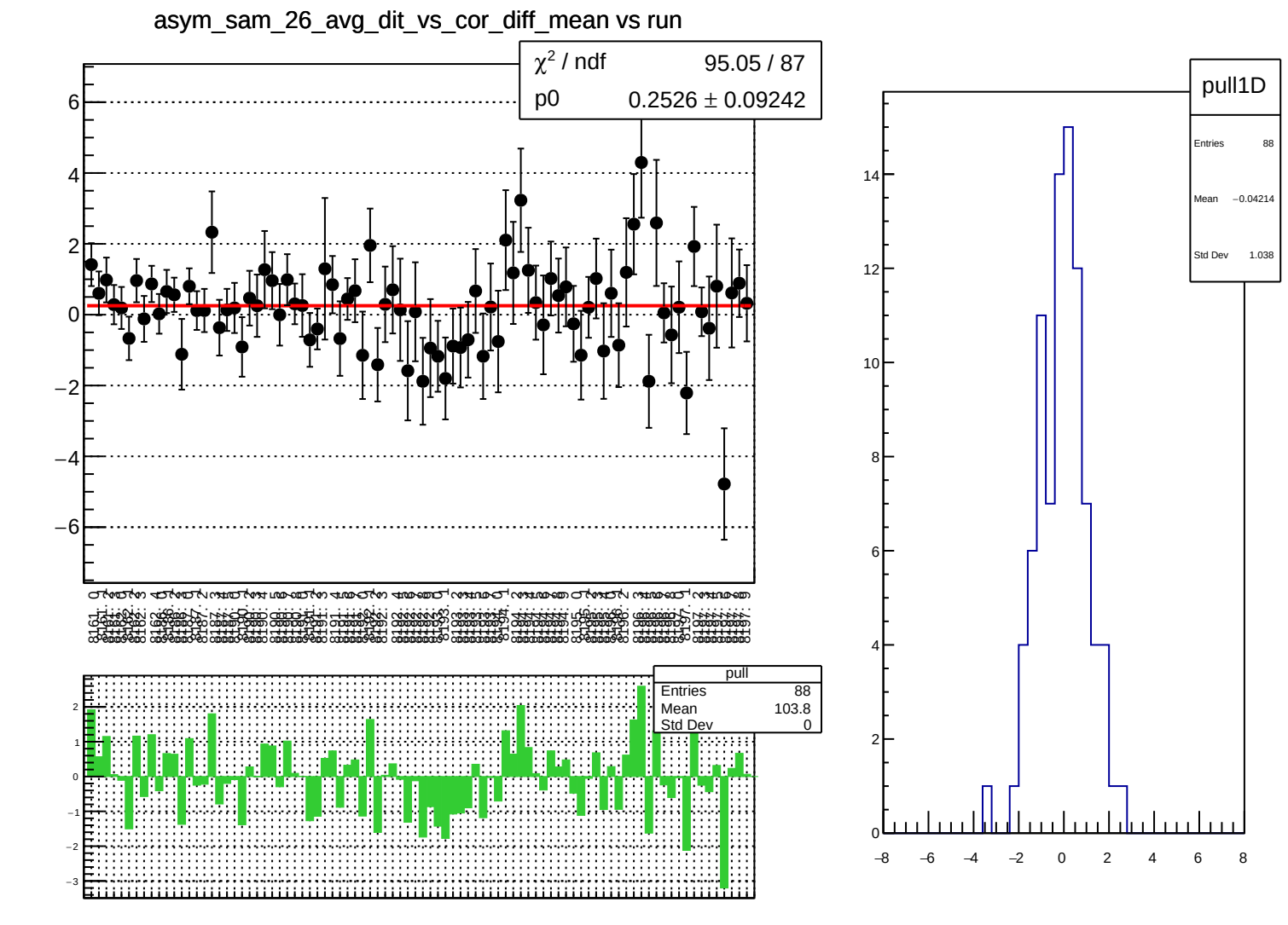

asym_sam_26_avg_mean vs run
χ² / ndf 79.68 / 87
p0 3743 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 2065
Std Dev 0
2
1
0
−1
−2
−3

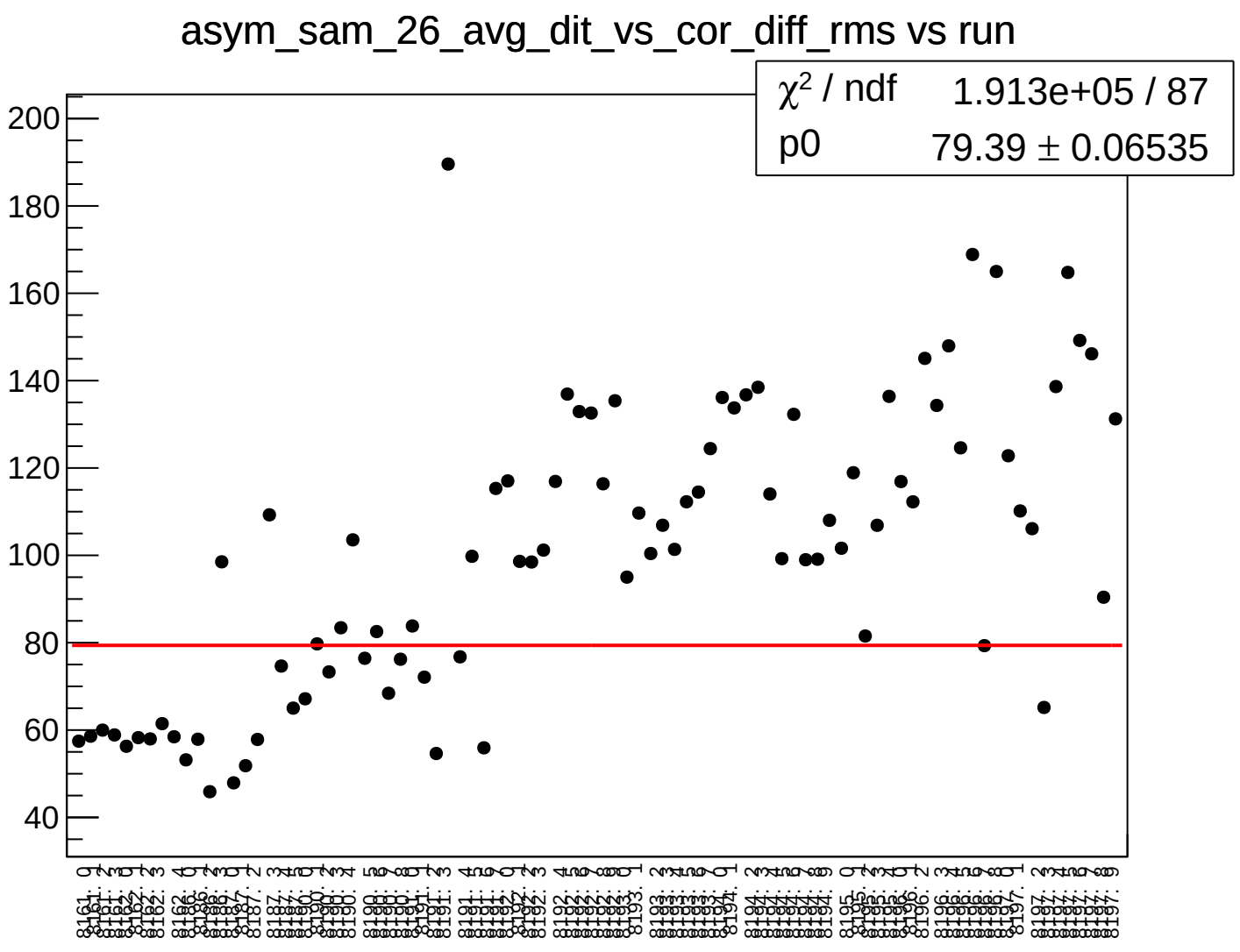

pull1D
Entries 88
Mean −0.002226
Std Dev 0.9516
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

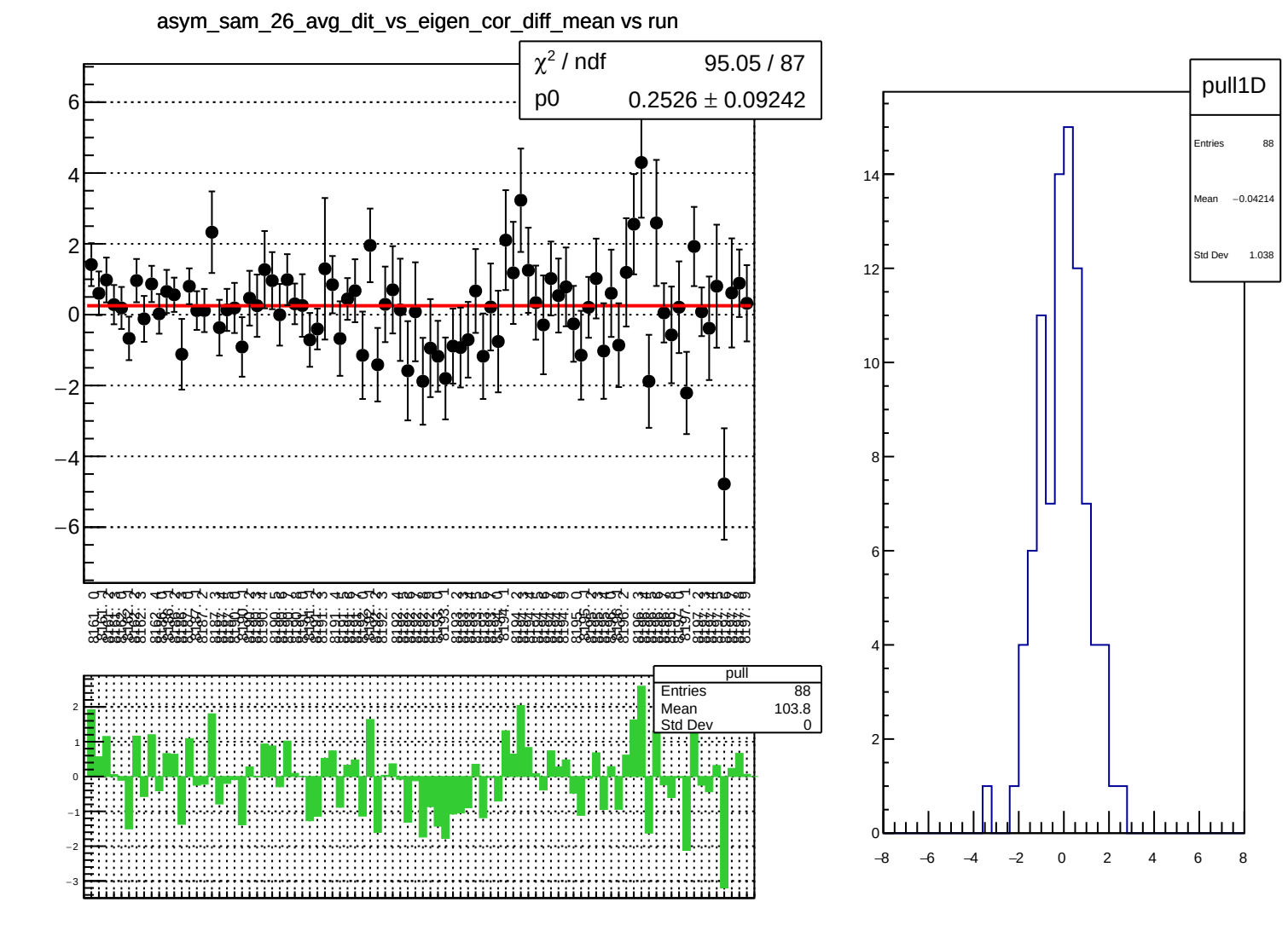

asym_sam_26_avg_rms vs run
χ² / ndf 1.356e+04 / 87
p0 1691 ± 1.315
2000
1900
1800
1700
1600
1500
1400
1300

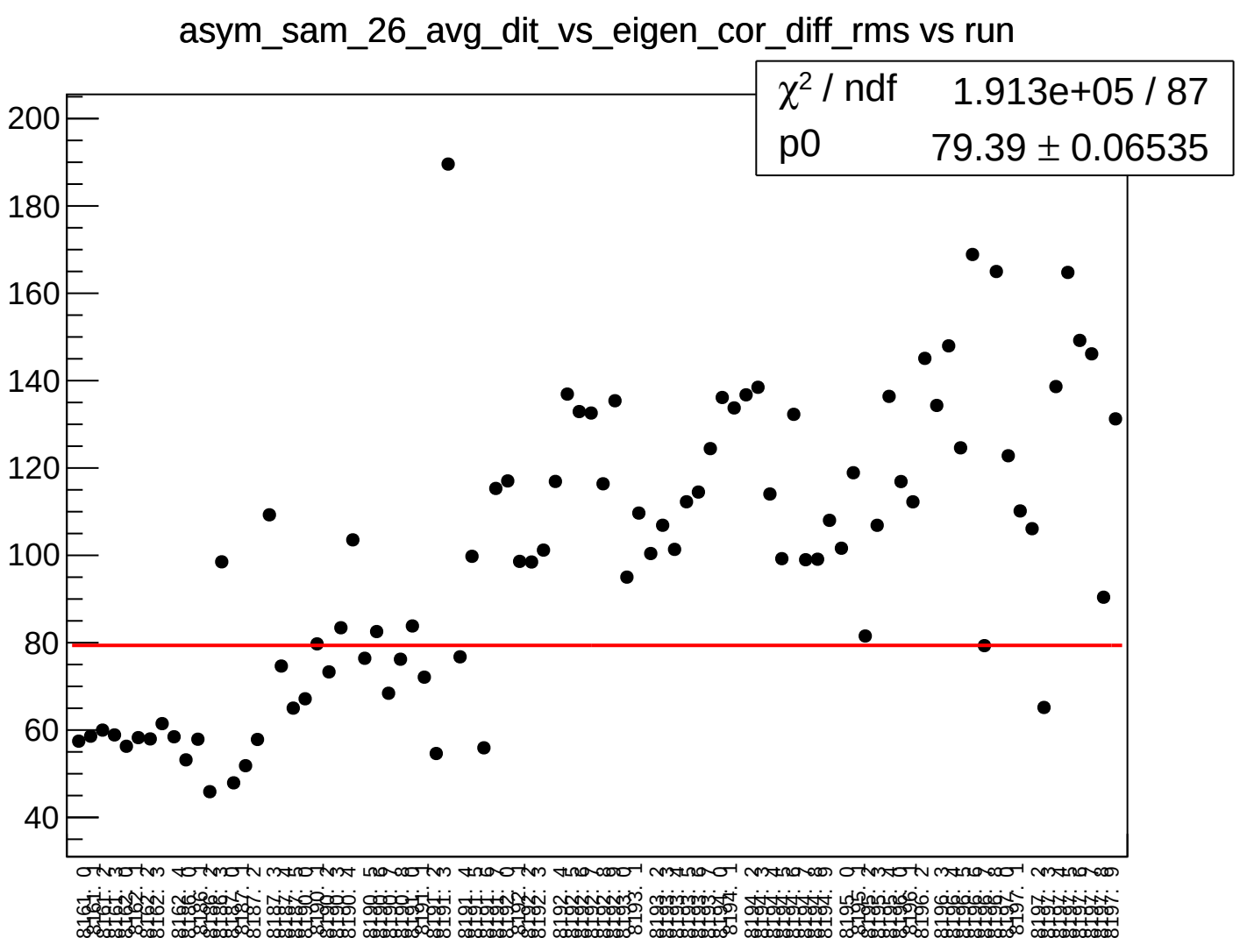

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.12 / 87
p0 −5.775e−16 ± 1.683e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 88
Mean −136.6
Std Dev 0
pull1D
Entries 88
Mean 0.02285
Std Dev 1.05

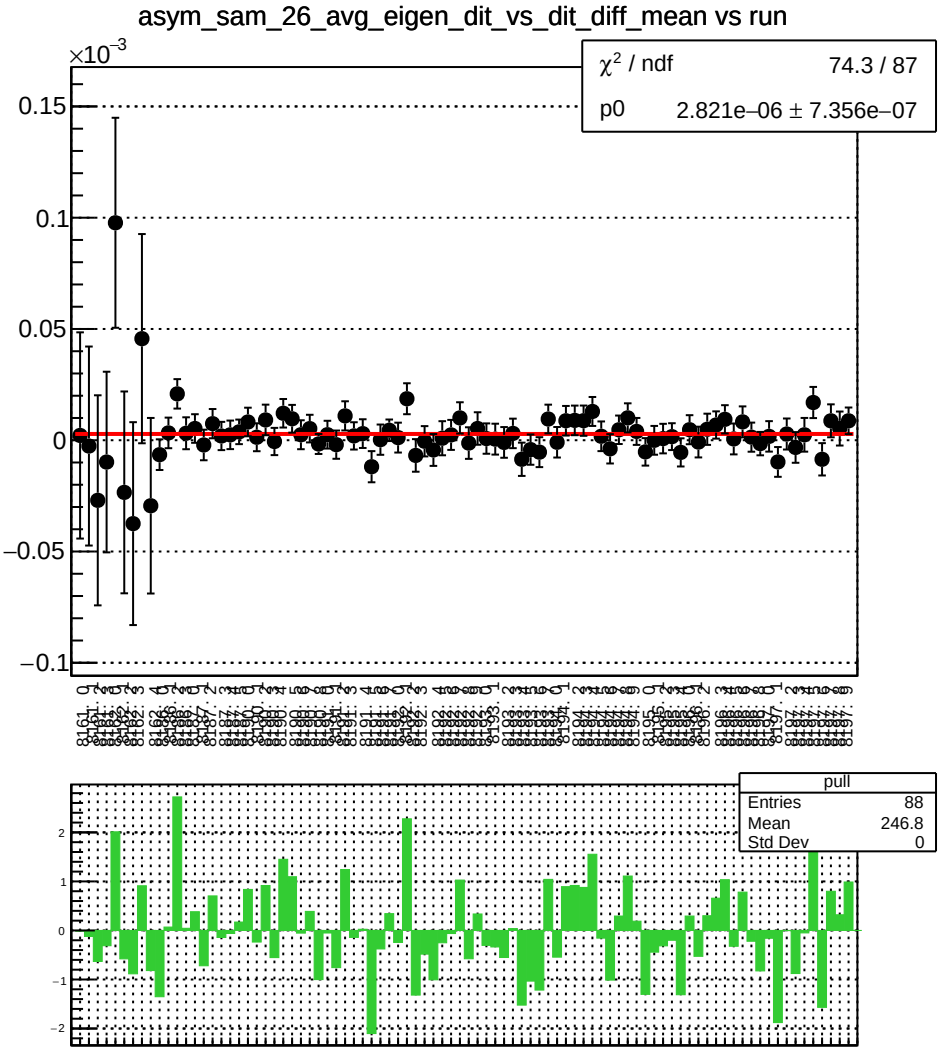

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.989e+05 / 87
p0 1.109e−10 ± 1.19e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

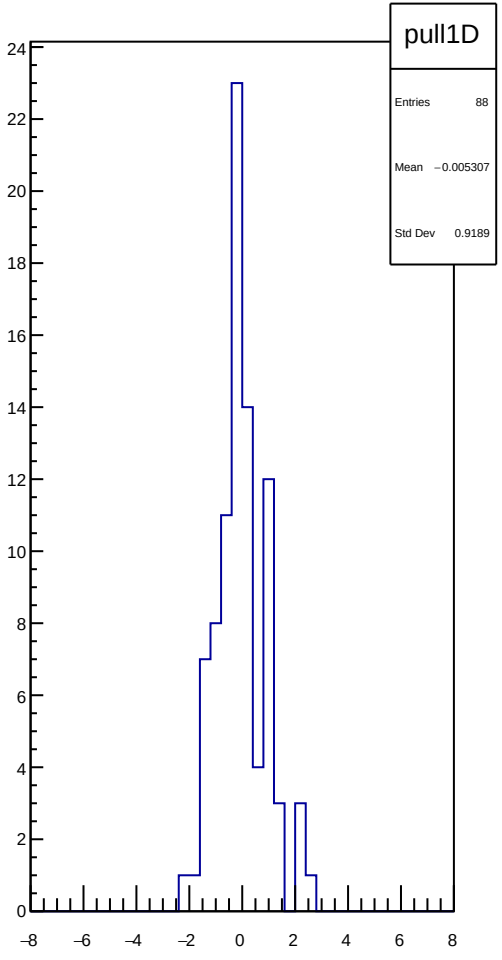

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.05 / 87
p0 0.2526 ± 0.09242
pull
Entries 88
Mean 103.8
Std Dev 0
pull1D
Entries 88
Mean −0.04214
Std Dev 1.038

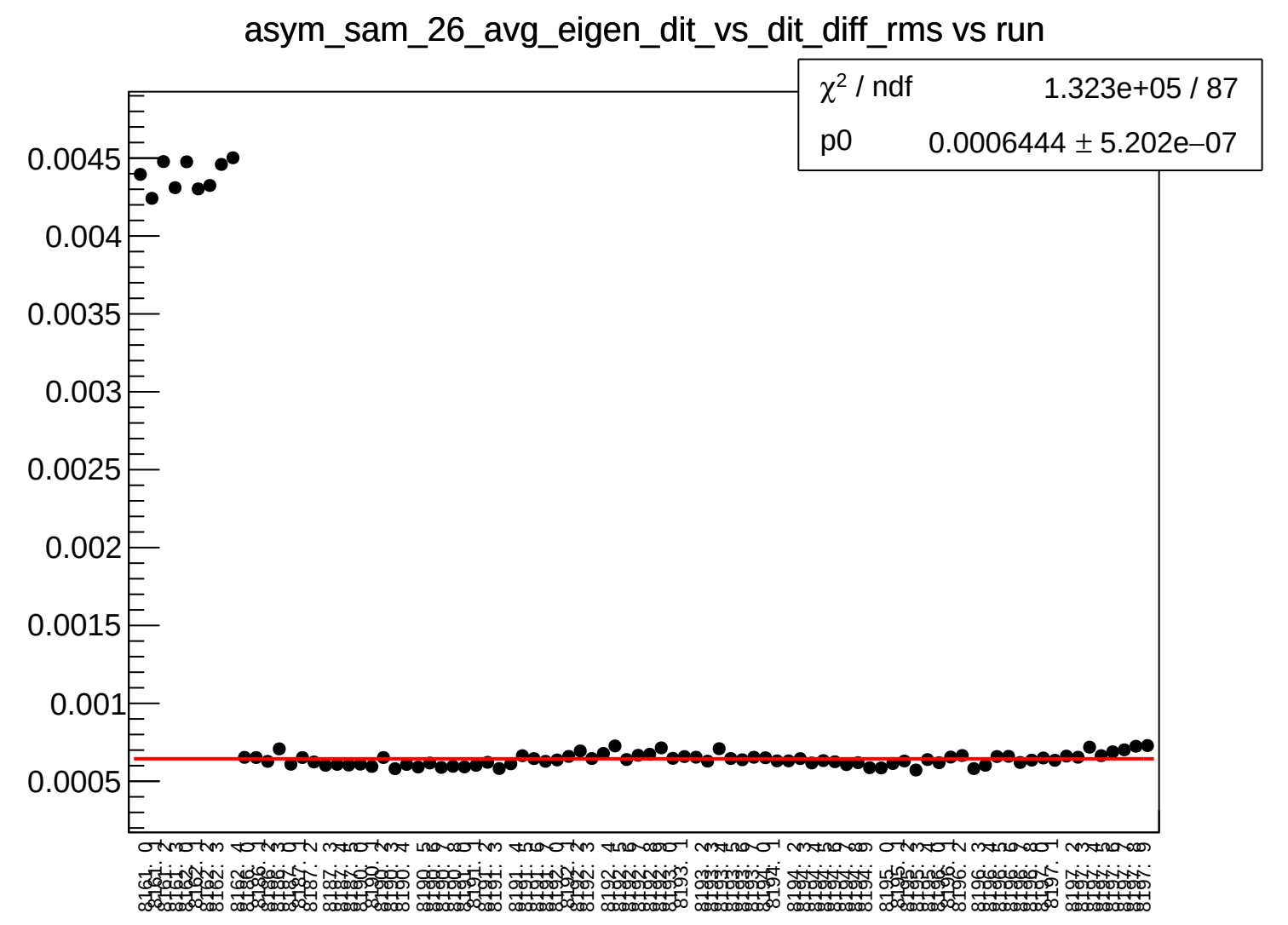

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.913e+05 / 87
p0 79.39 ± 0.06535
200
180
160
140
120
100
80
60
40

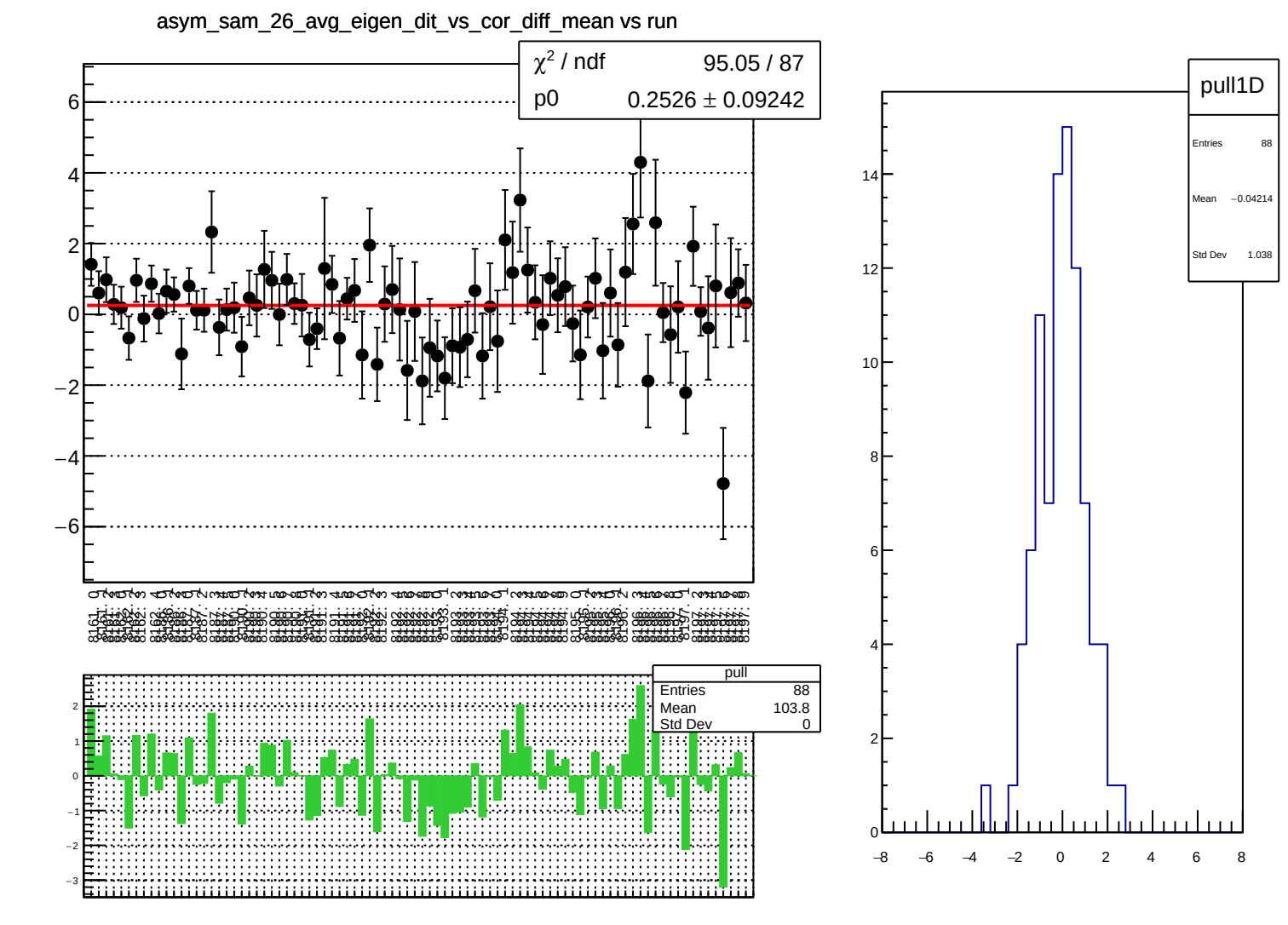

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.05 / 87
p0 0.2526 ± 0.09242
pull
Entries 88
Mean 103.8
Std Dev 0
pull1D
Entries 88
Mean −0.04214
Std Dev 1.038

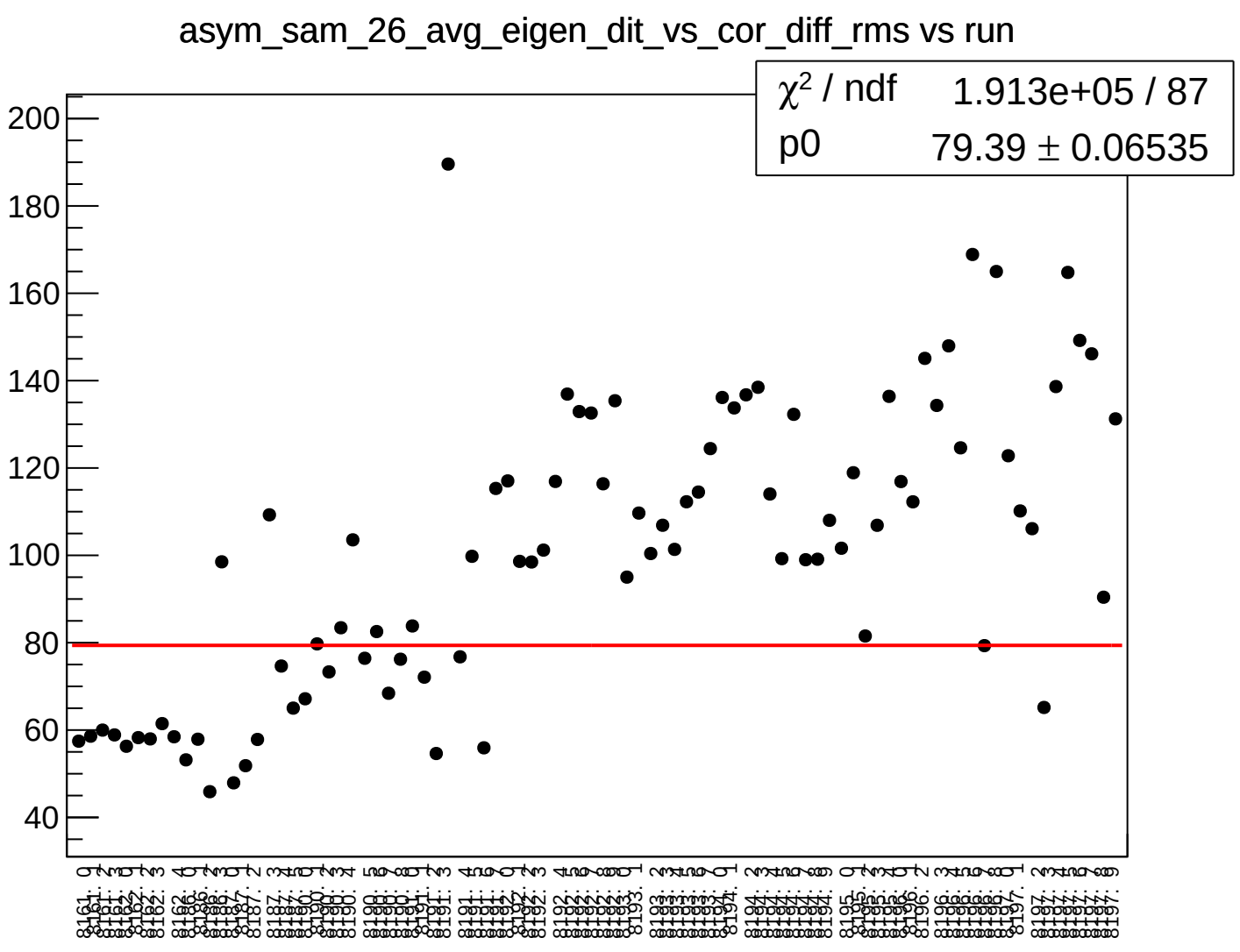

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.913e+05 / 87
p0 79.39 ± 0.06535
200
180
160
140
120
100
80
60
40

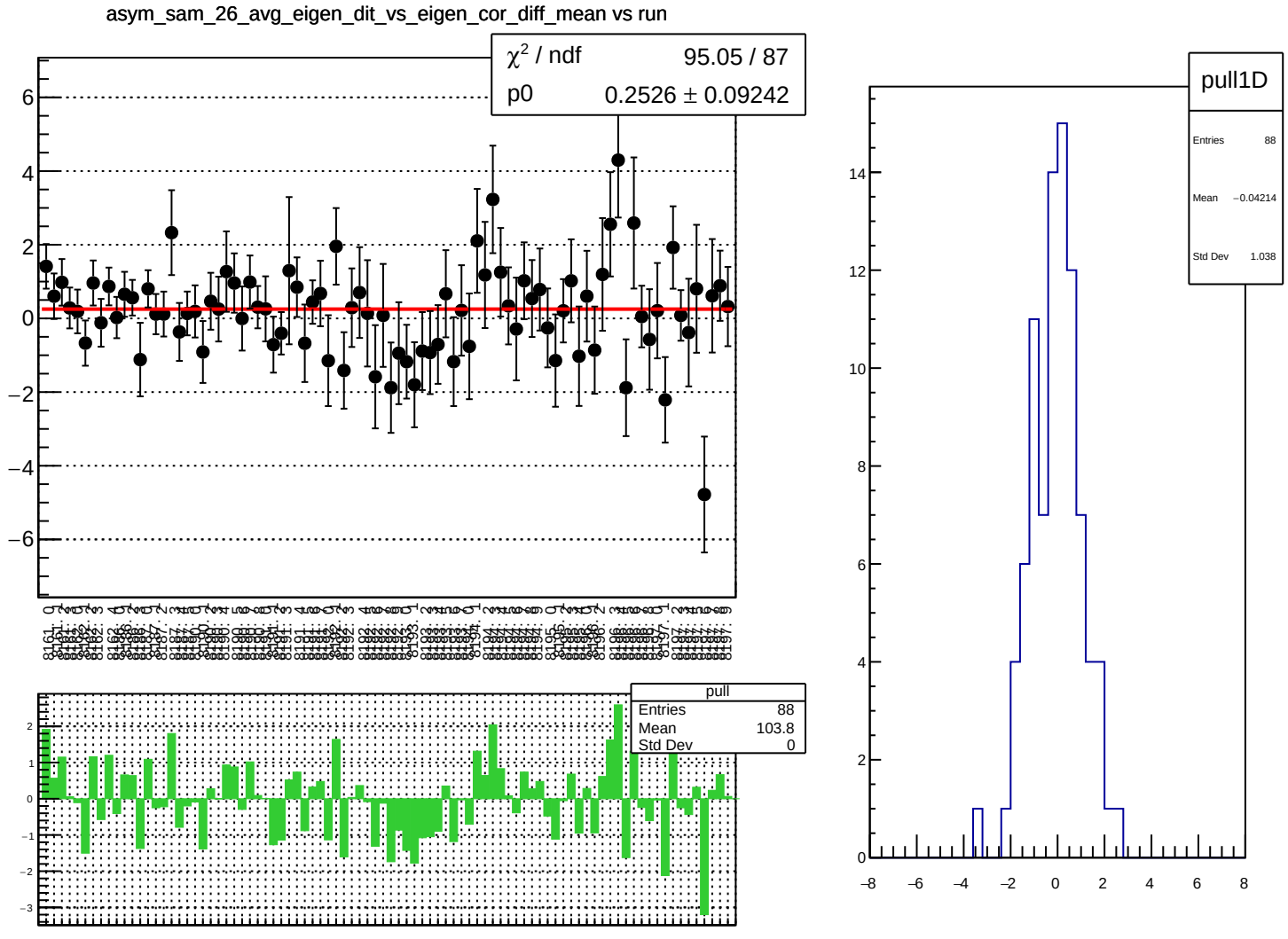

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.3 / 87
p0 2.821e−06 ± 7.356e−07
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 246.8
Std Dev 0
2
1
0
−1
−2

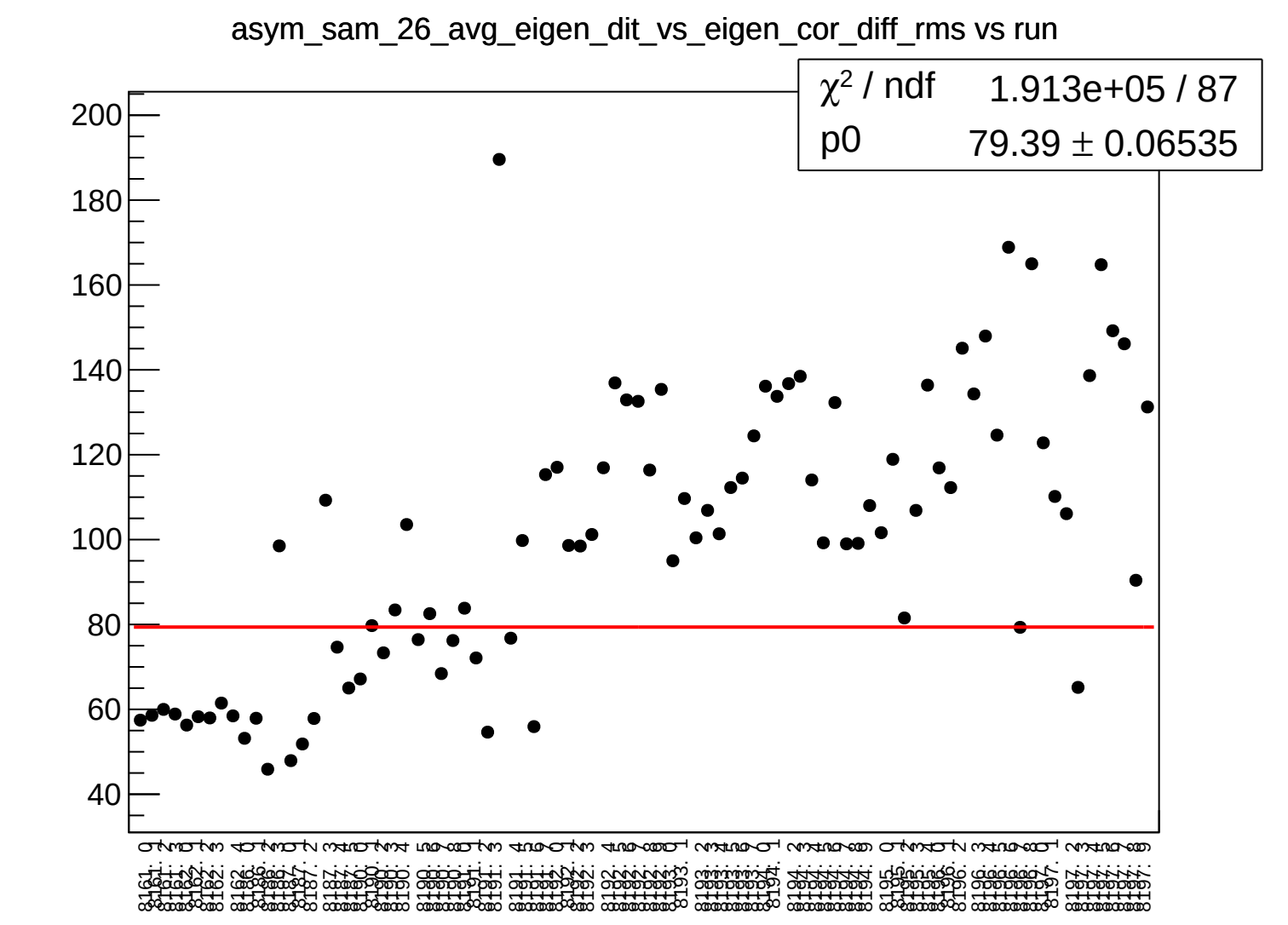

pull1D
Entries 88
Mean −0.005307
Std Dev 0.9189
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

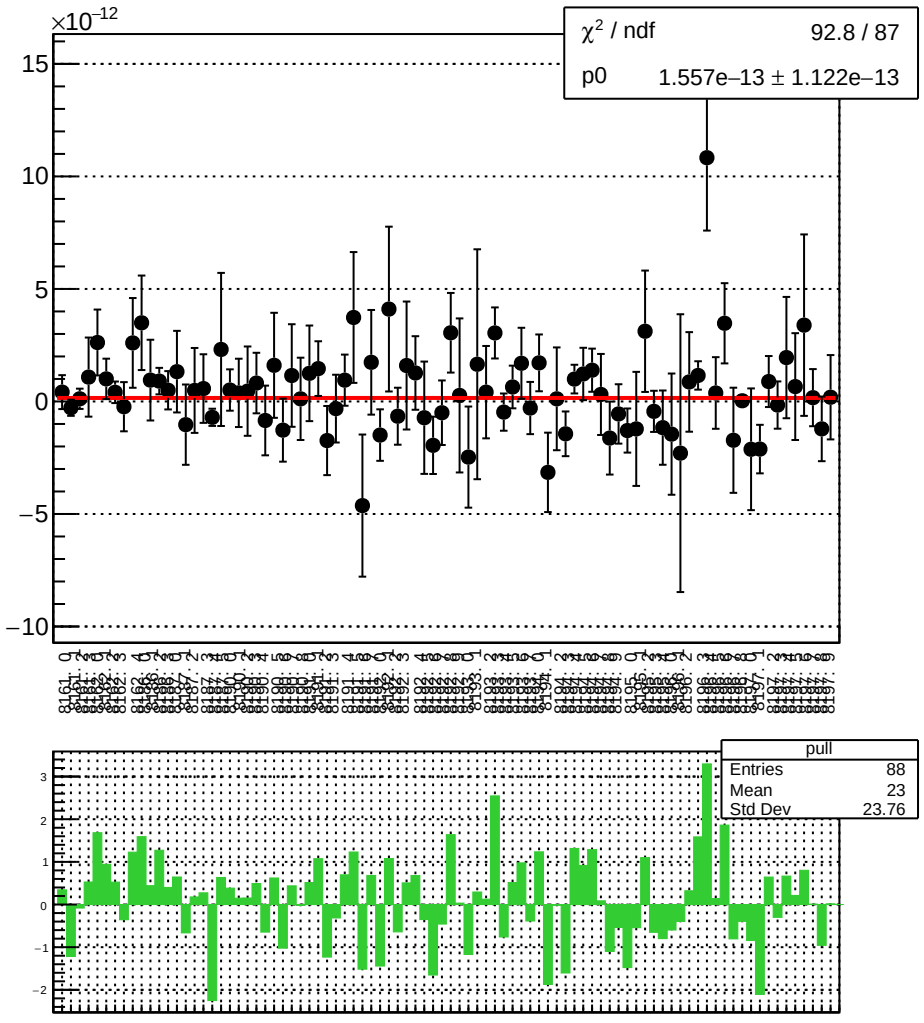

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.323e+05 / 87
p0 0.0006444 ± 5.202e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

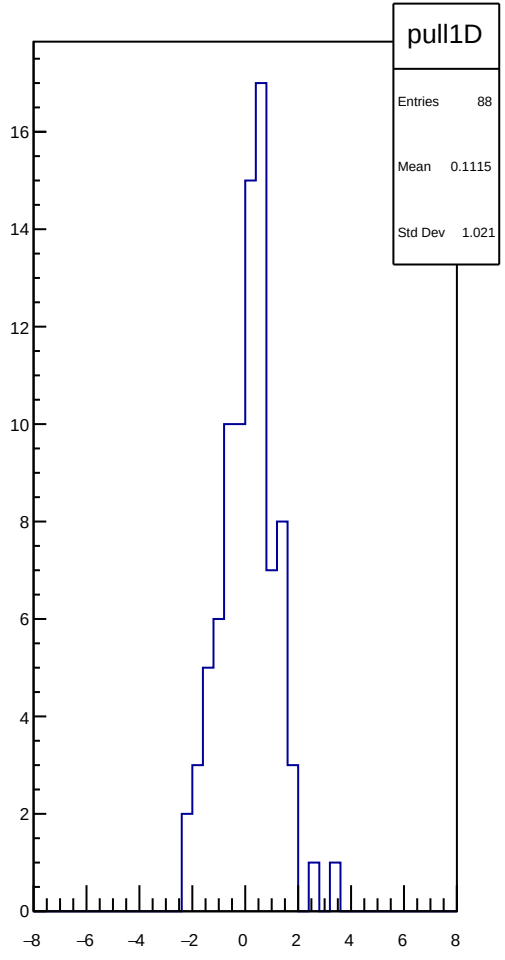

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.05 / 87
p0 0.2526 ± 0.09242
pull
Entries 88
Mean 103.8
Std Dev 0
pull1D
Entries 88
Mean −0.04214
Std Dev 1.038

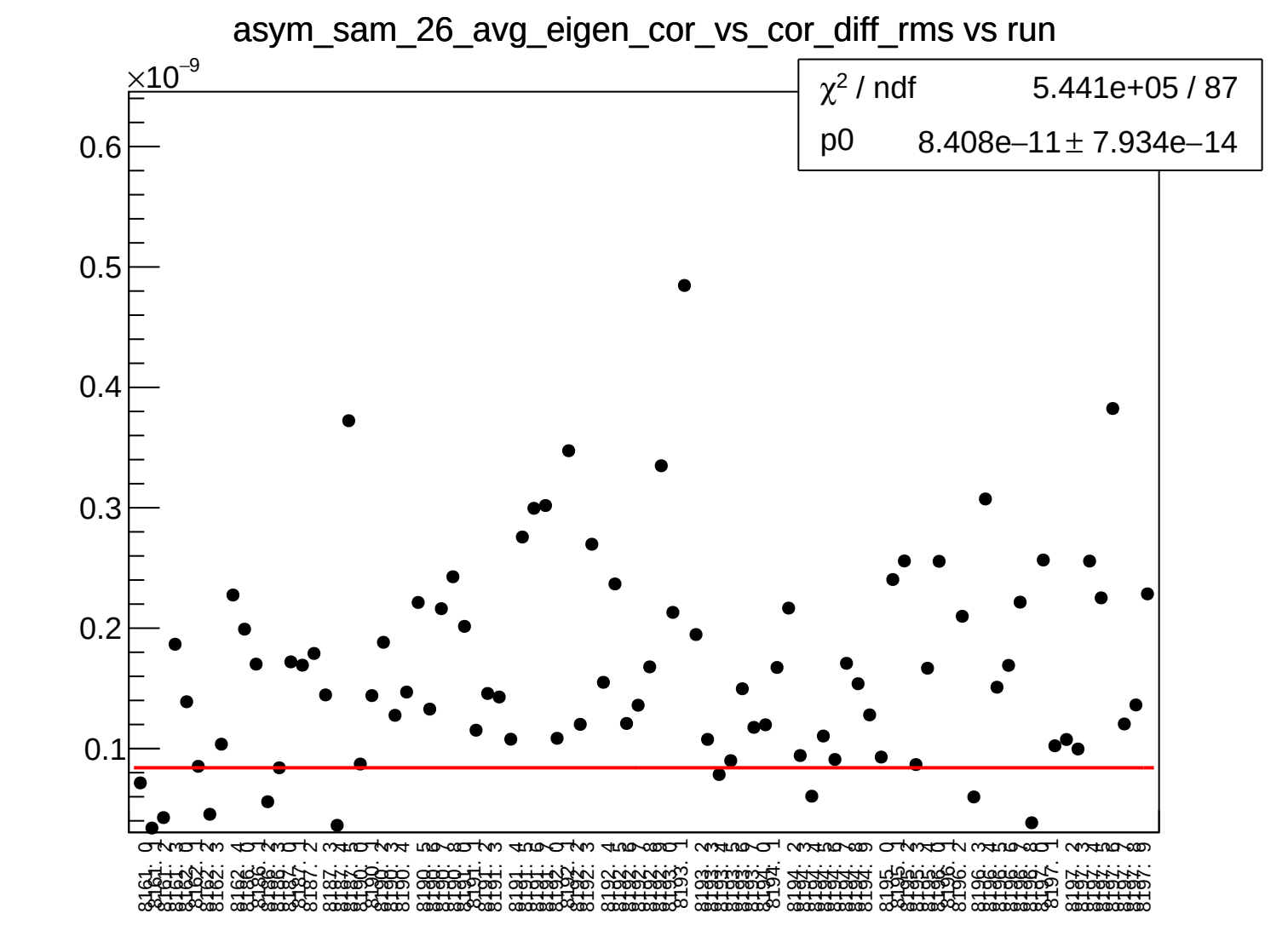

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.913e+05 / 87
p0 79.39 ± 0.06535
200
180
160
140
120
100
80
60
40

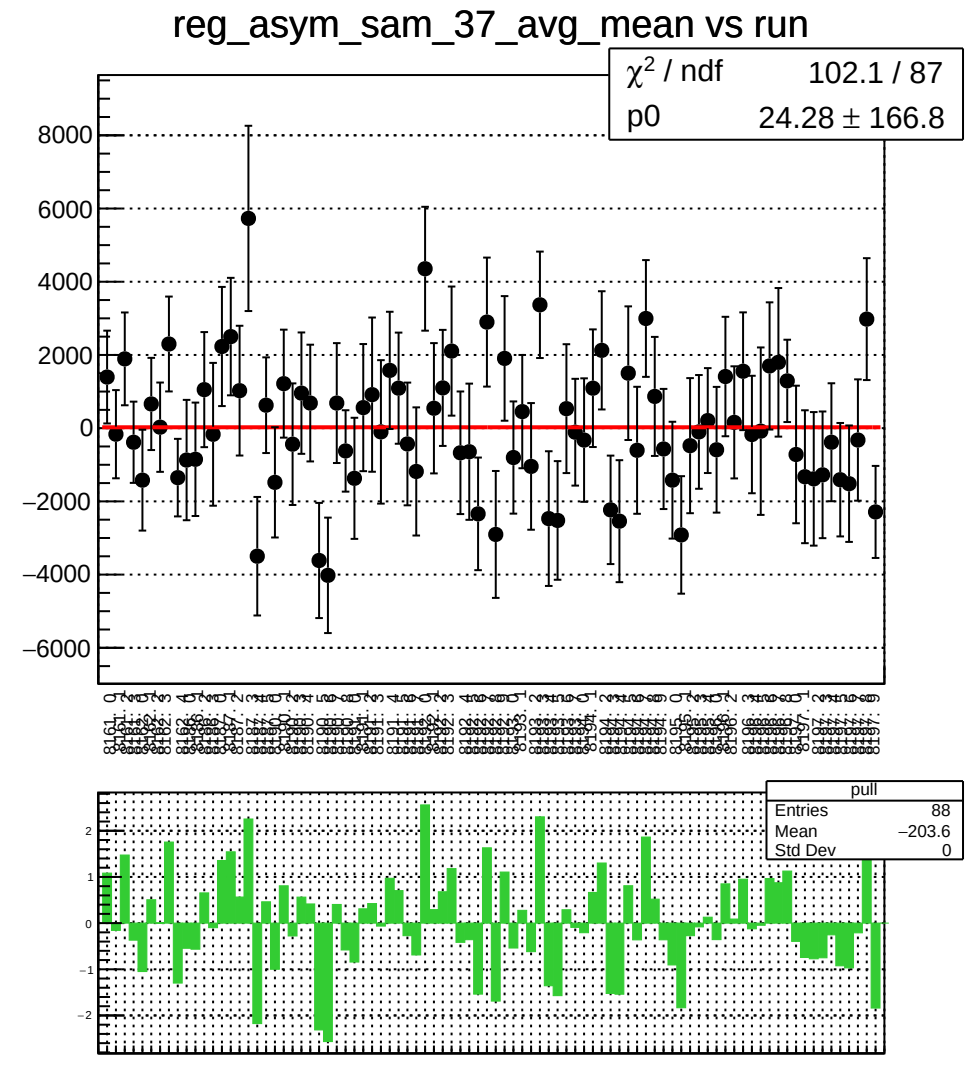

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.05 / 87
p0 0.2526 ± 0.09242
pull
Entries 88
Mean 103.8
Std Dev 0
pull1D
Entries 88
Mean −0.04214
Std Dev 1.038

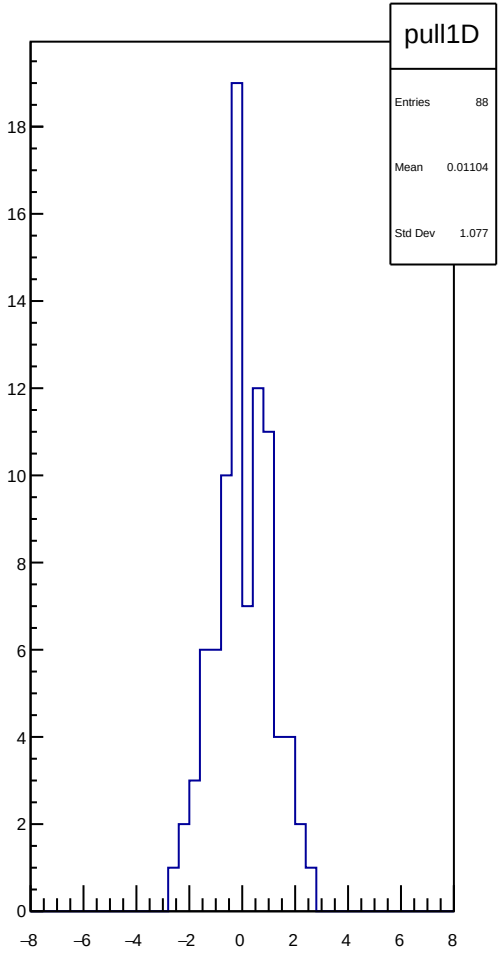

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.913e+05 / 87
p0 79.39 ± 0.06535
200
180
160
140
120
100
80
60
40

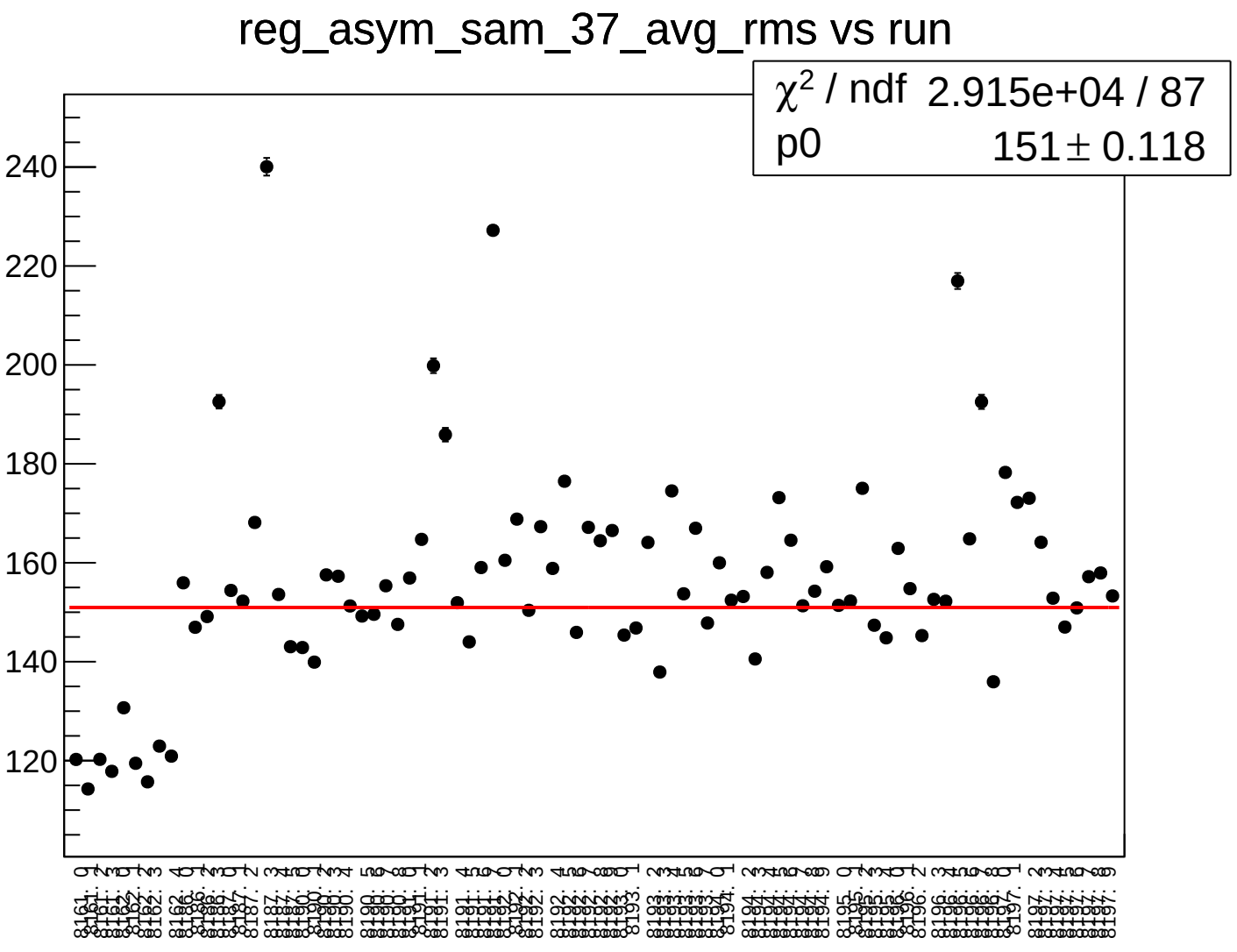

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.8 / 87
p0 1.557e−13 ± 1.122e−13
15
10
5
0
−5
−10
pull
Entries 88
Mean 23
Std Dev 23.76
3
2
1
0
−1
−2

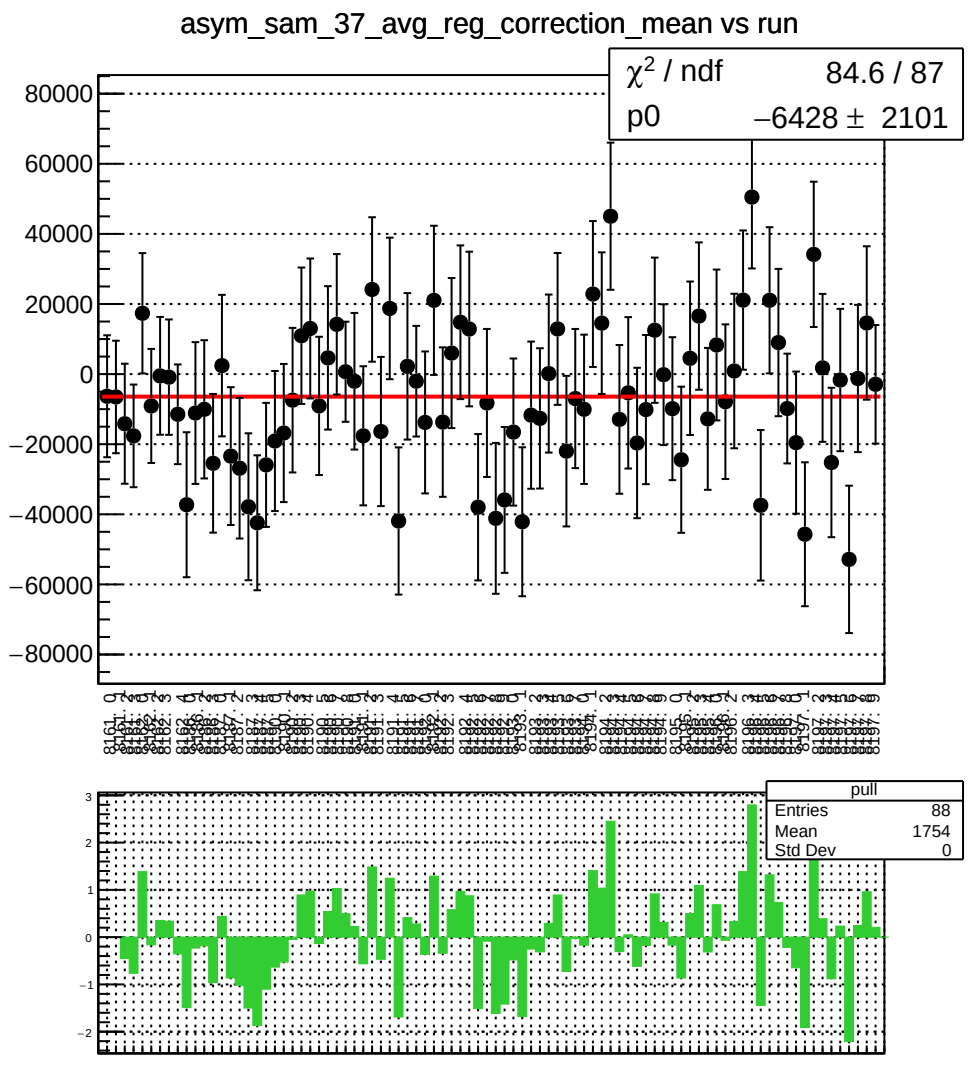

pull1D
Entries 88
Mean 0.1115
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

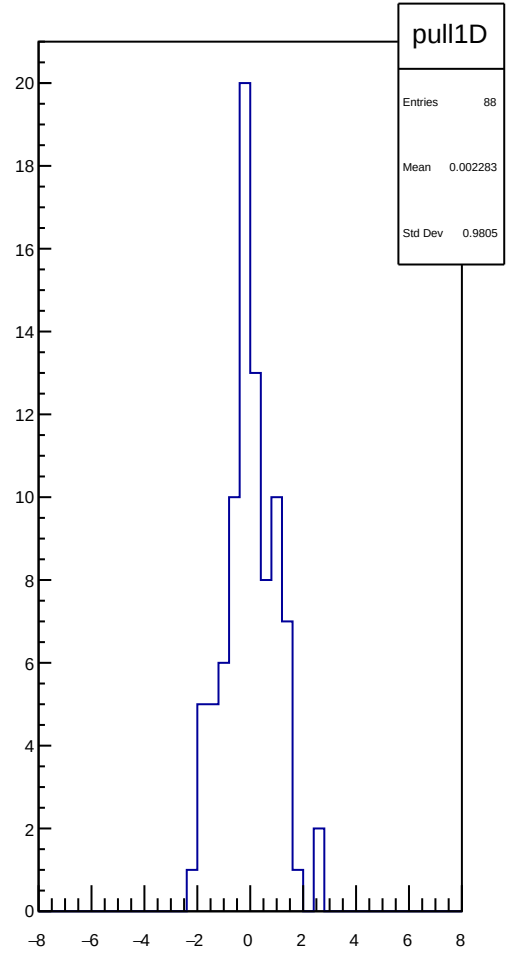

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.441e+05 / 87
p0 8.408e−11 ± 7.934e−14
0.6
0.5
0.4
0.3
0.2
0.1

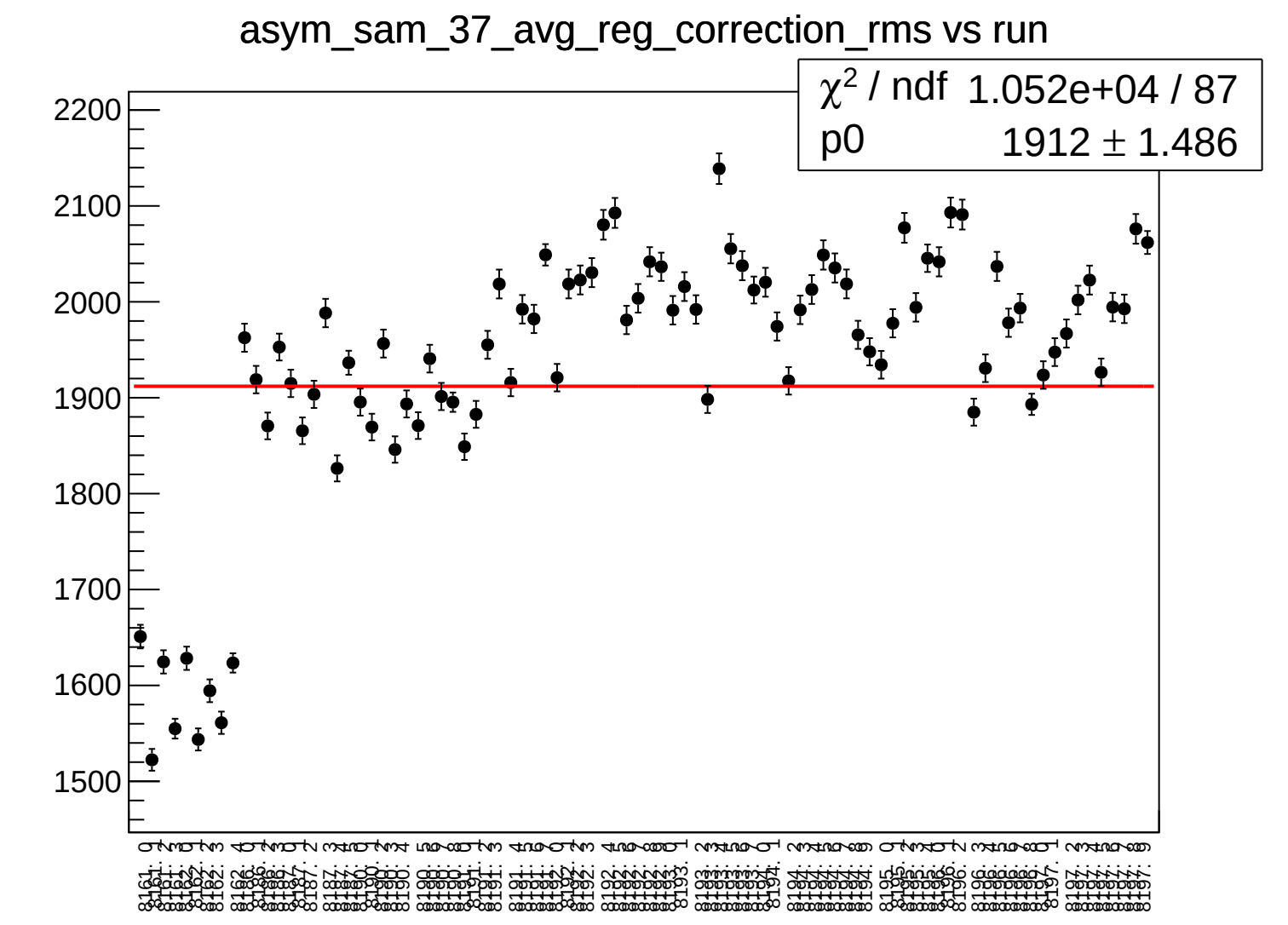

reg_asym_sam_37_avg_mean vs run
χ² / ndf 102.1 / 87
p0 24.28 ± 166.8
pull
Entries 88
Mean −203.6
Std Dev 0

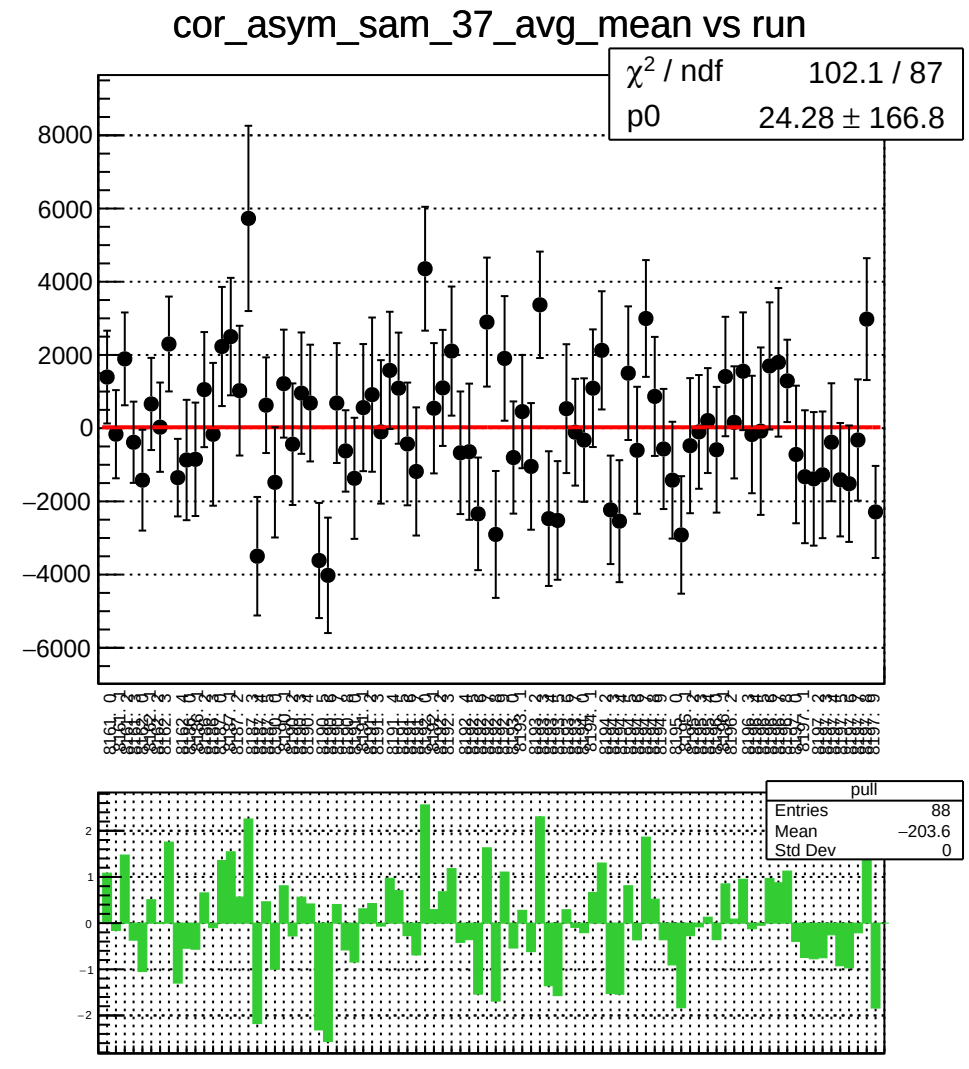

pull1D
Entries 88
Mean 0.01104
Std Dev 1.077

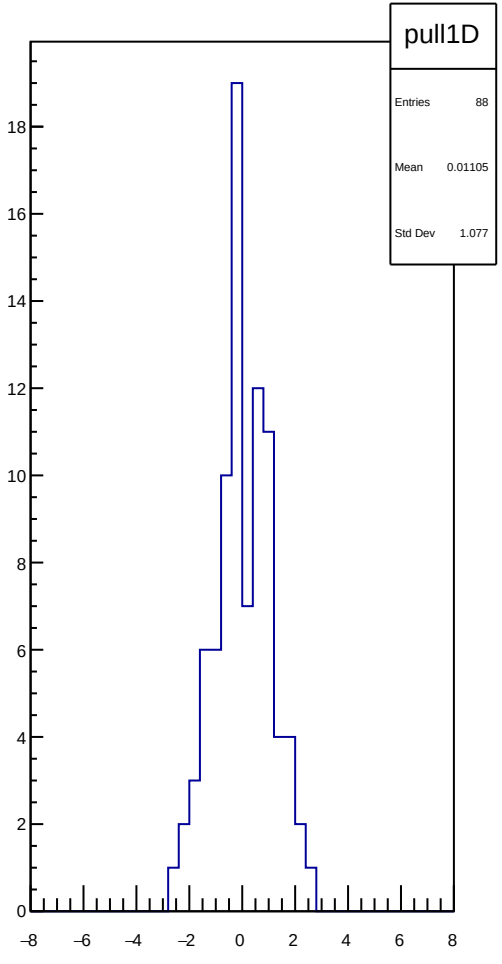

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.915e+04 / 87
p0 151 ± 0.118
240
220
200
180
160
140
120

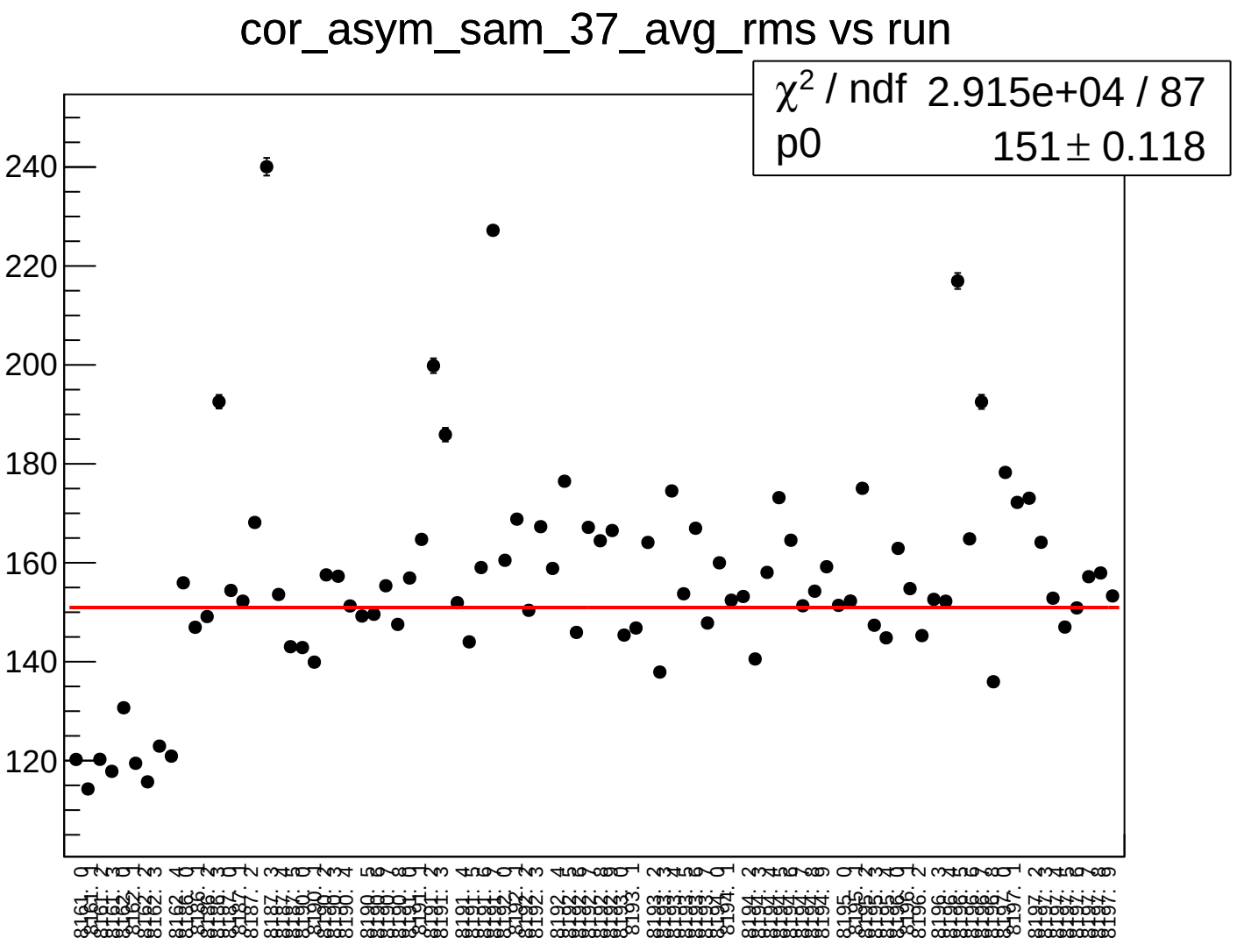

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 84.6 / 87
p0 −6428 ± 2101
pull
Entries 88
Mean 1754
Std Dev 0

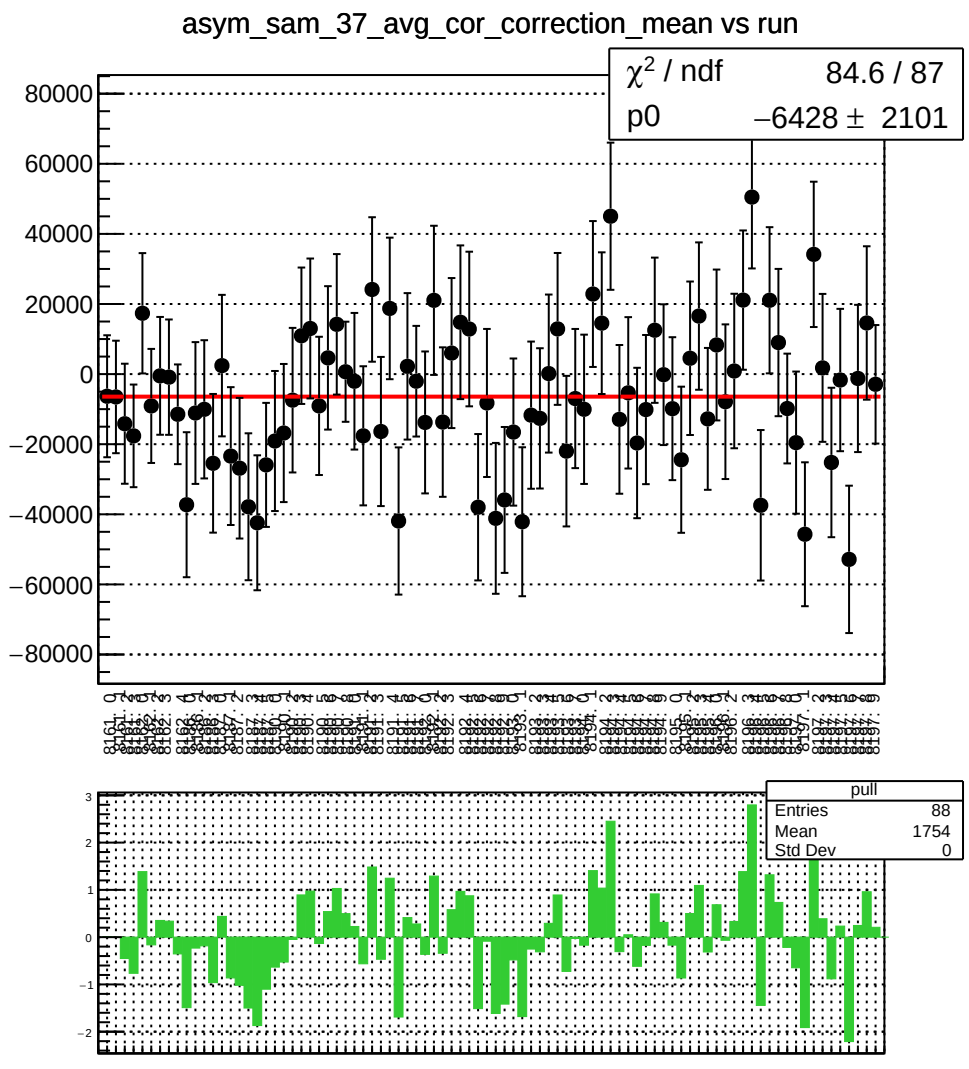

pull1D
Entries 88
Mean 0.002283
Std Dev 0.9805

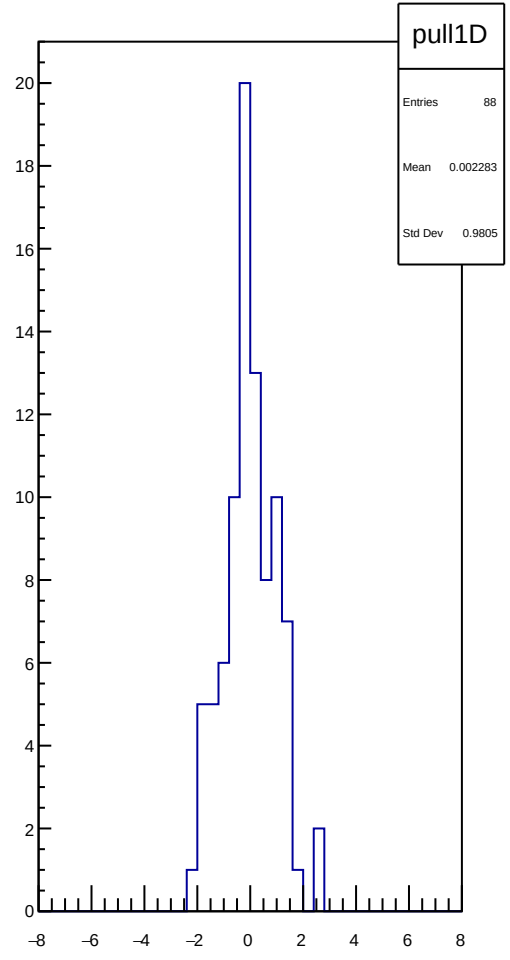

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.052e+04 / 87
p0 1912 ± 1.486
2200
2100
2000
1900
1800
1700
1600
1500

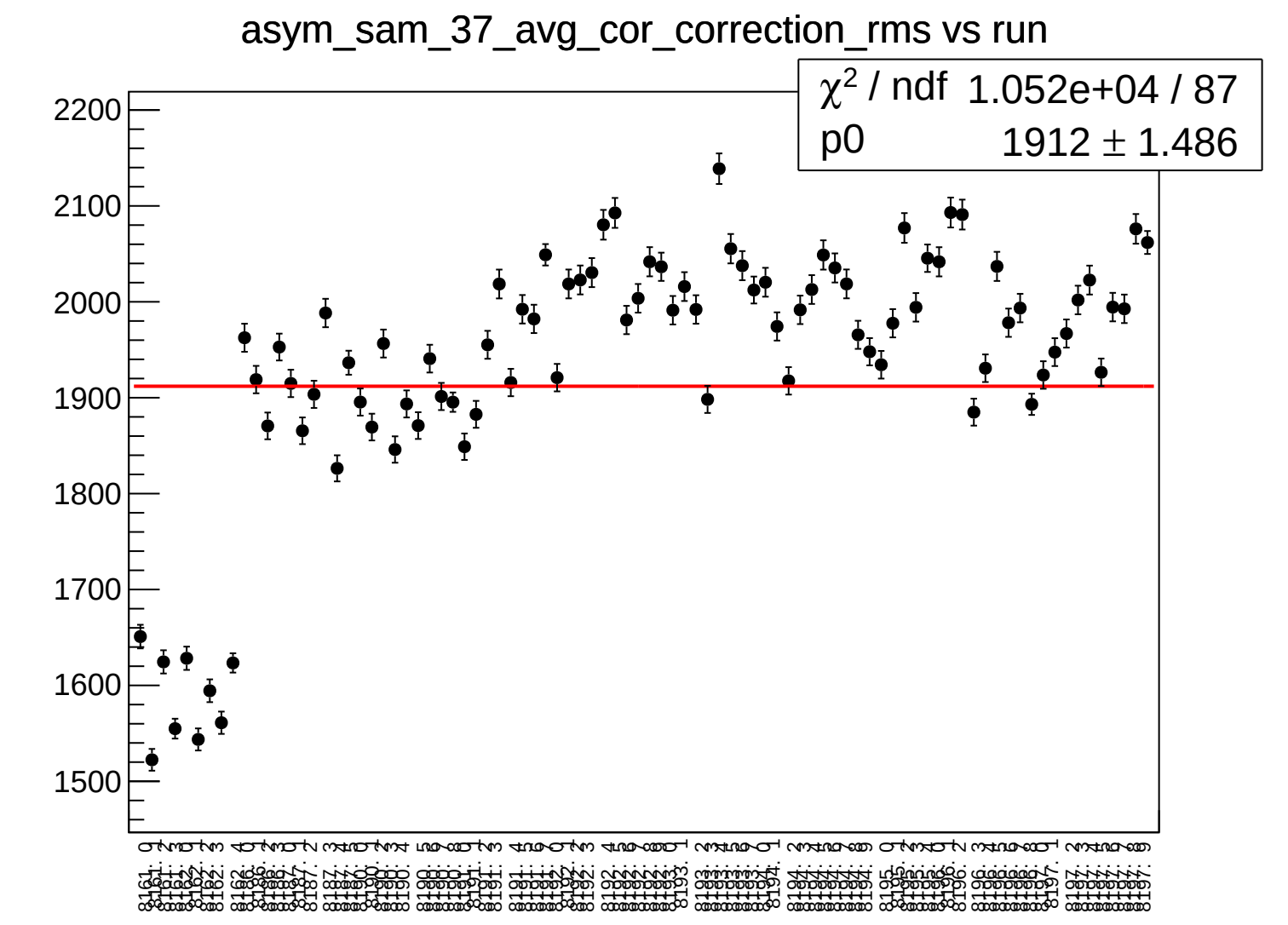

cor_asym_sam_37_avg_mean vs run
χ² / ndf 102.1 / 87
p0 24.28 ± 166.8
pull
Entries 88
Mean −203.6
Std Dev 0

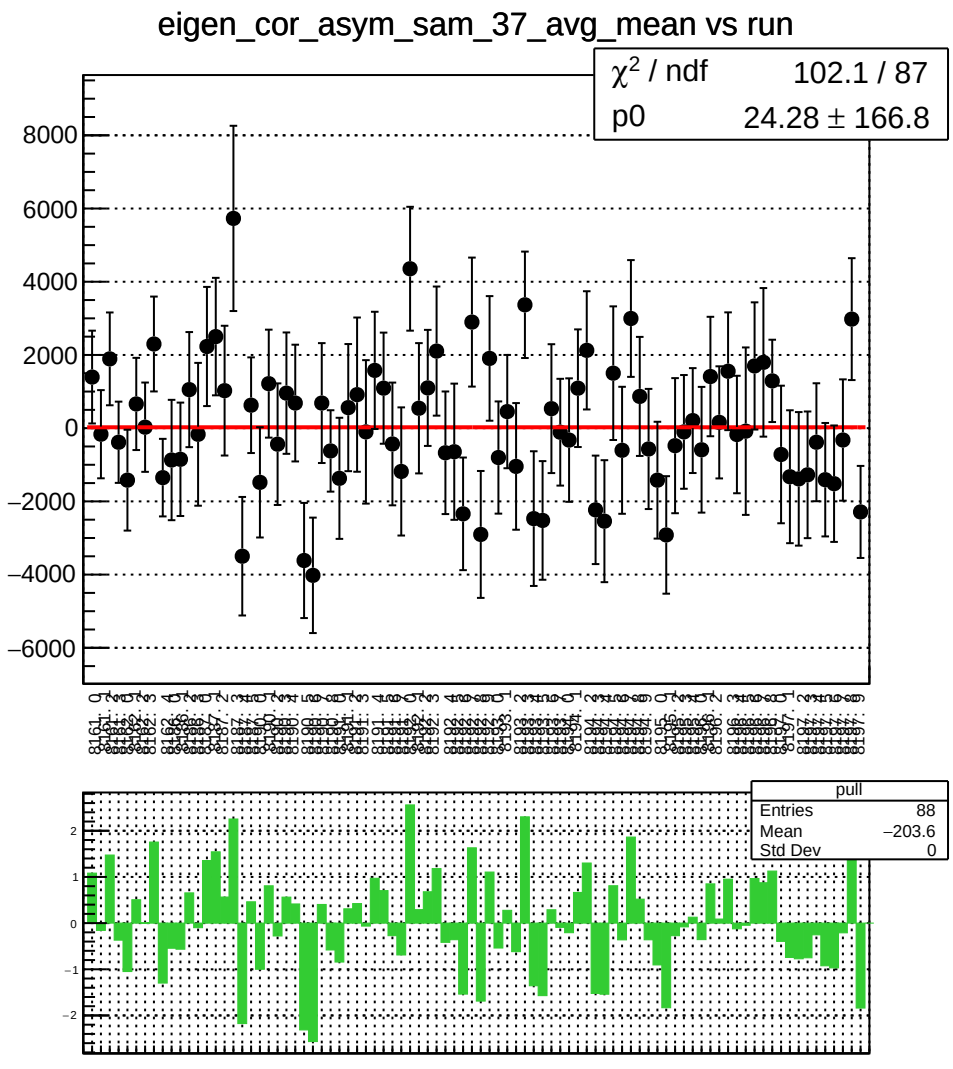

pull1D
Entries 88
Mean 0.01105
Std Dev 1.077

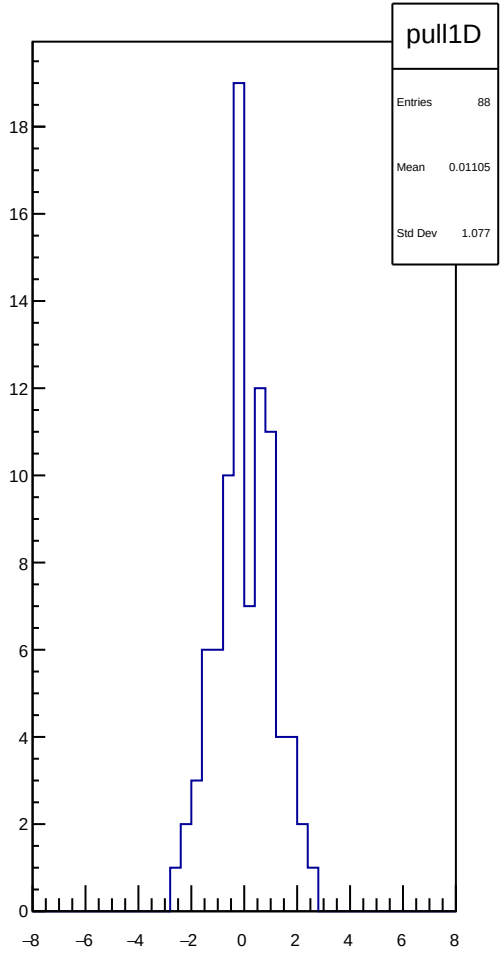

cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.915e+04 / 87
p0 151 ± 0.118
240
220
200
180
160
140
120

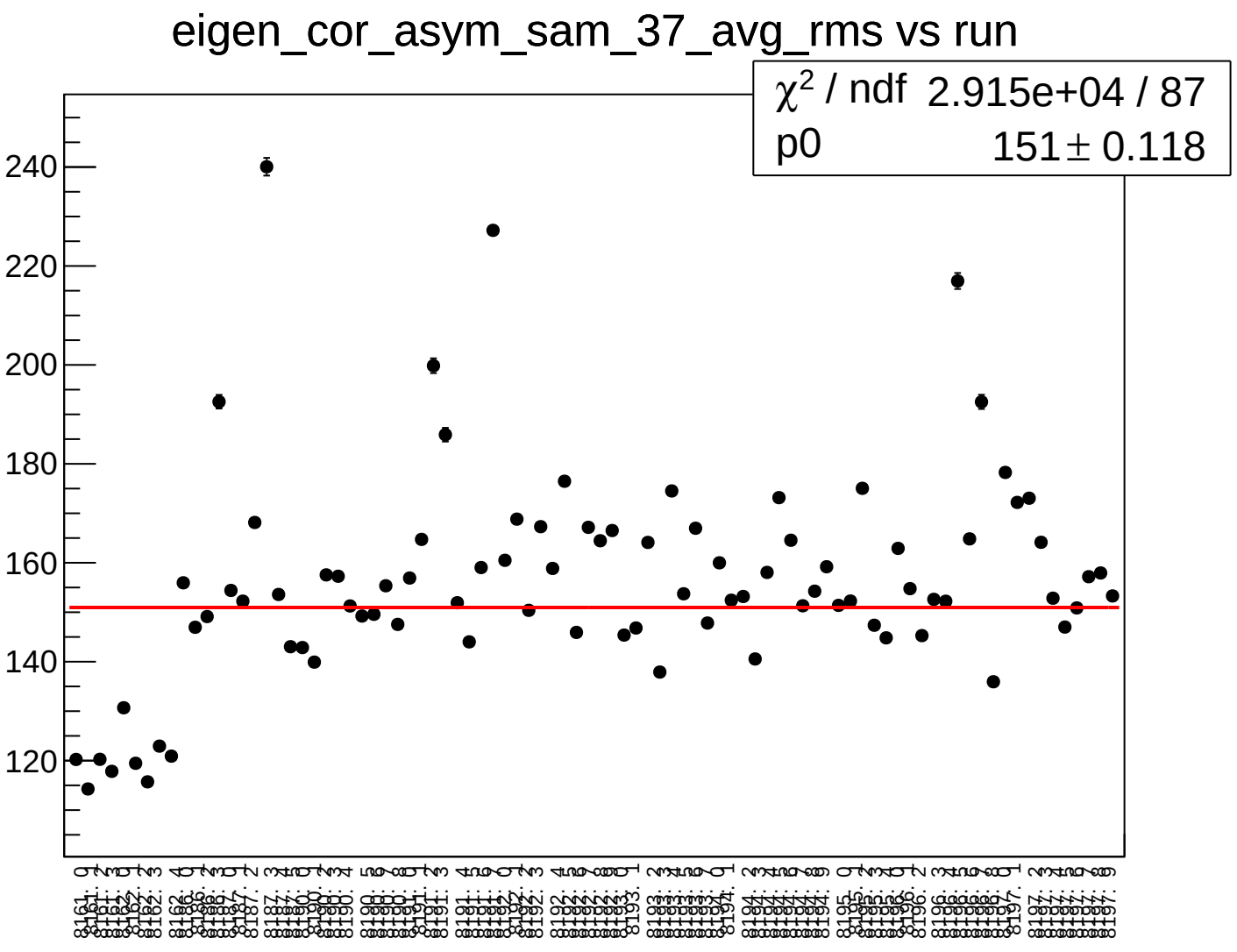

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 84.6 / 87
p0 −6428 ± 2101
pull
Entries 88
Mean 1754
Std Dev 0

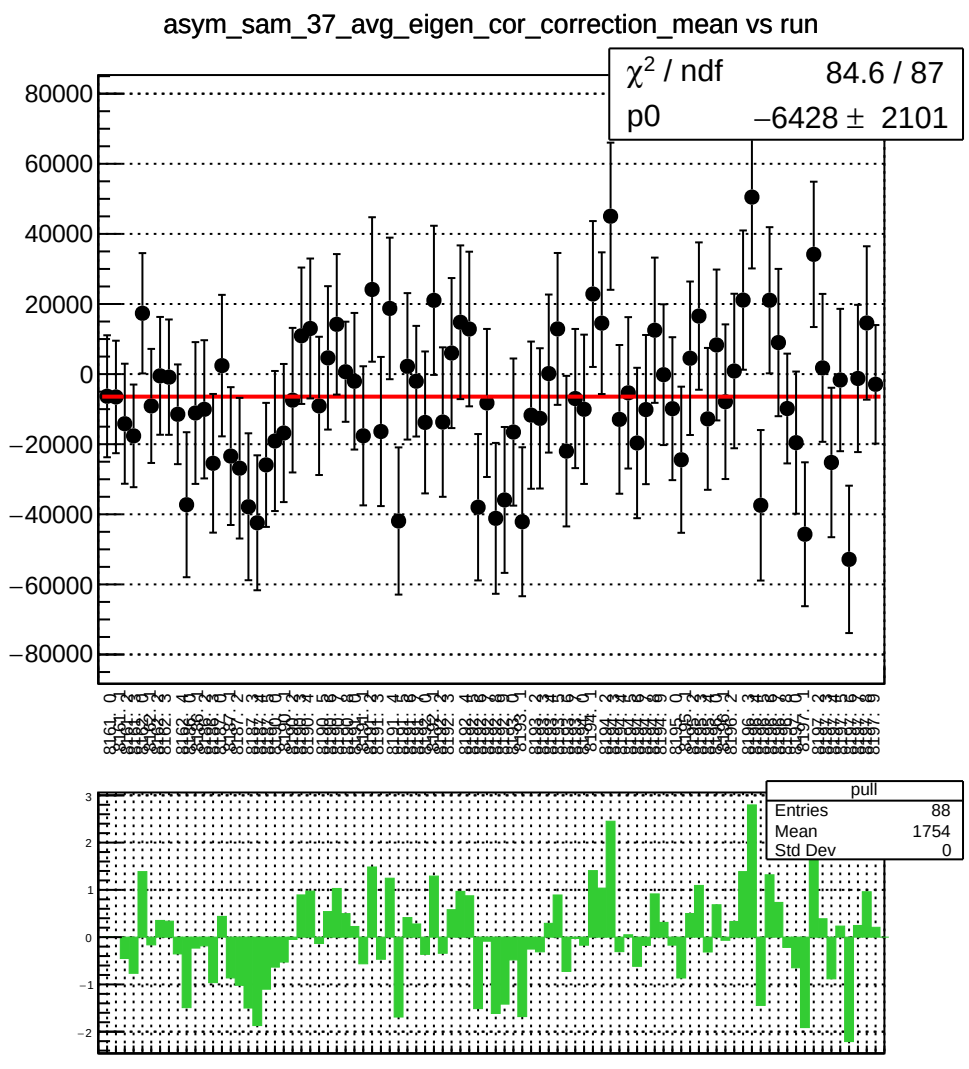

pull1D
Entries 88
Mean 0.002283
Std Dev 0.9805

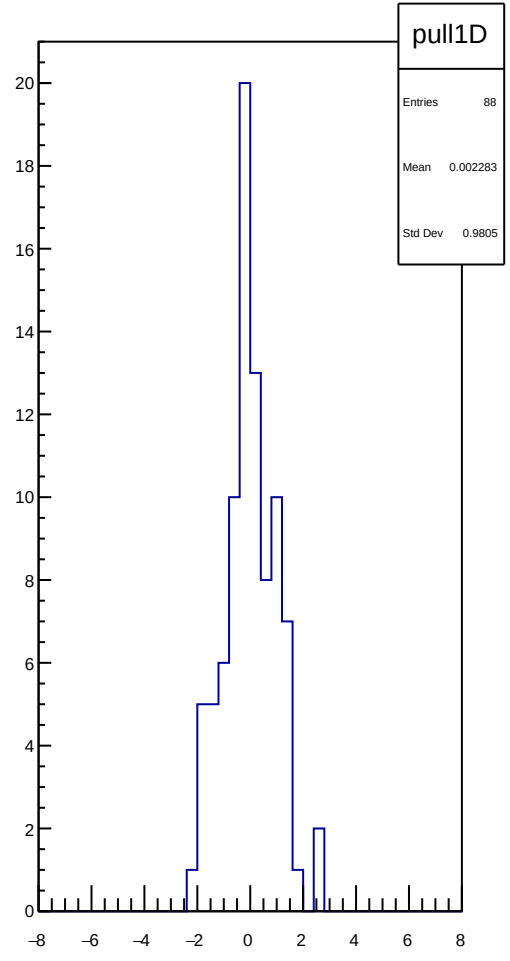

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.052e+04 / 87
p0 1912 ± 1.486
2200
2100
2000
1900
1800
1700
1600
1500

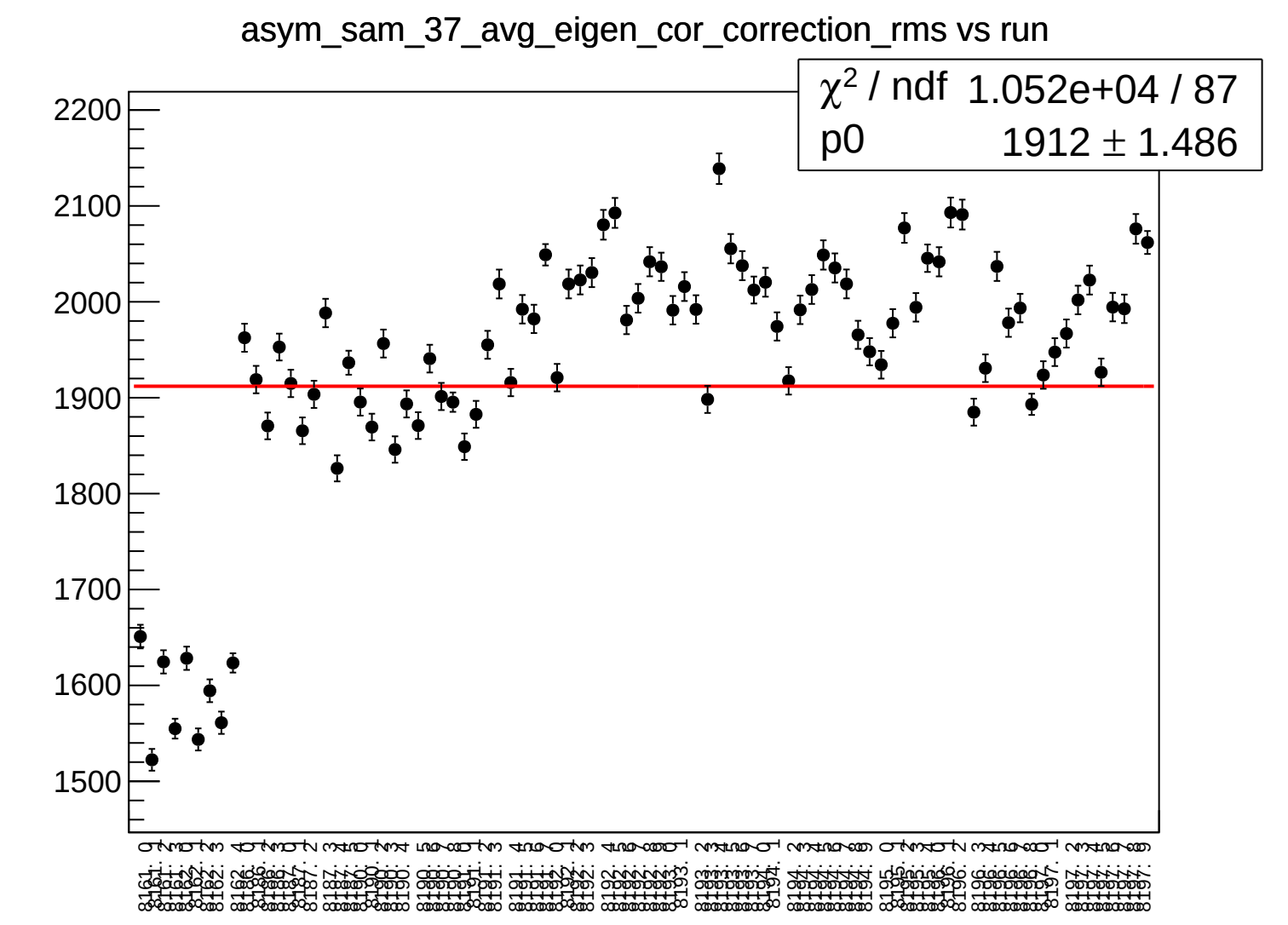

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 102.1 / 87
p0 24.28 ± 166.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −203.6
Std Dev 0
2
1
0
−1
−2

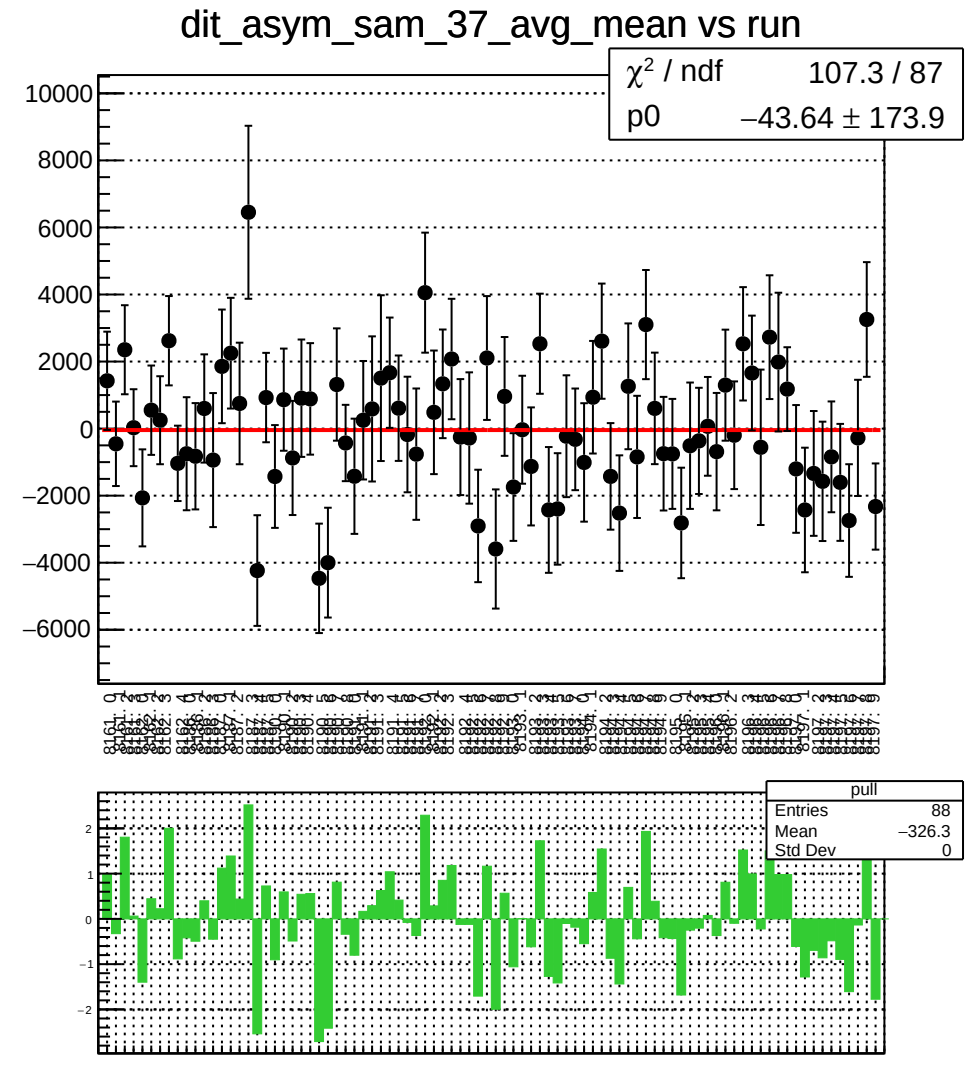

pull1D
Entries 88
Mean 0.01105
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

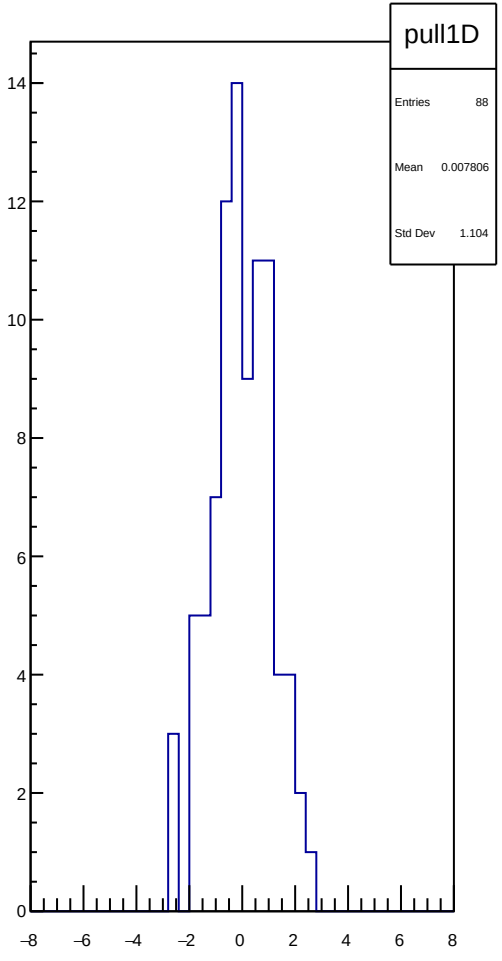

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.915e+04 / 87
p0 151 ± 0.118
240
220
200
180
160
140
120

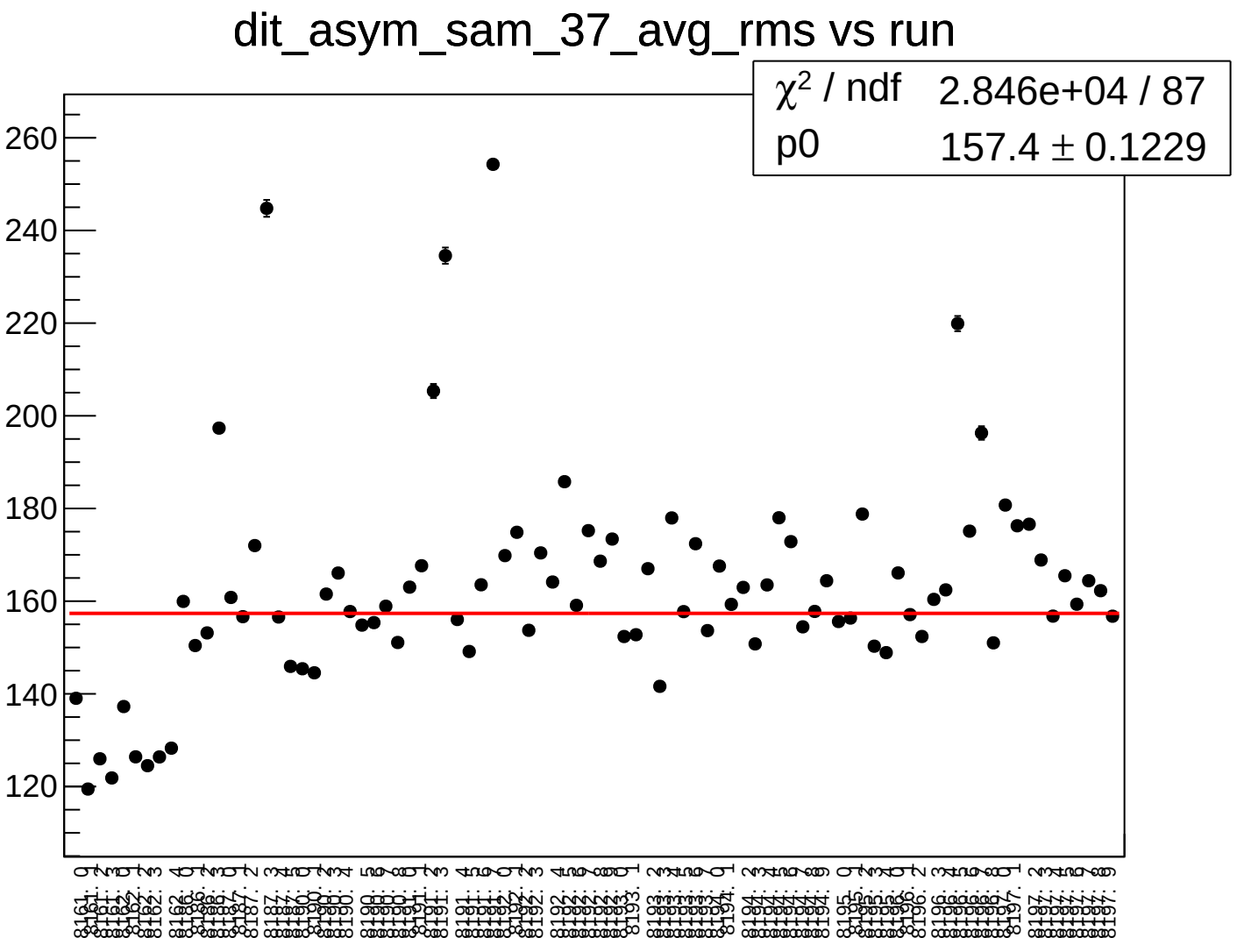

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.6 / 87
p0 −6428 ± 2101
pull
Entries 88
Mean 1754
Std Dev 0

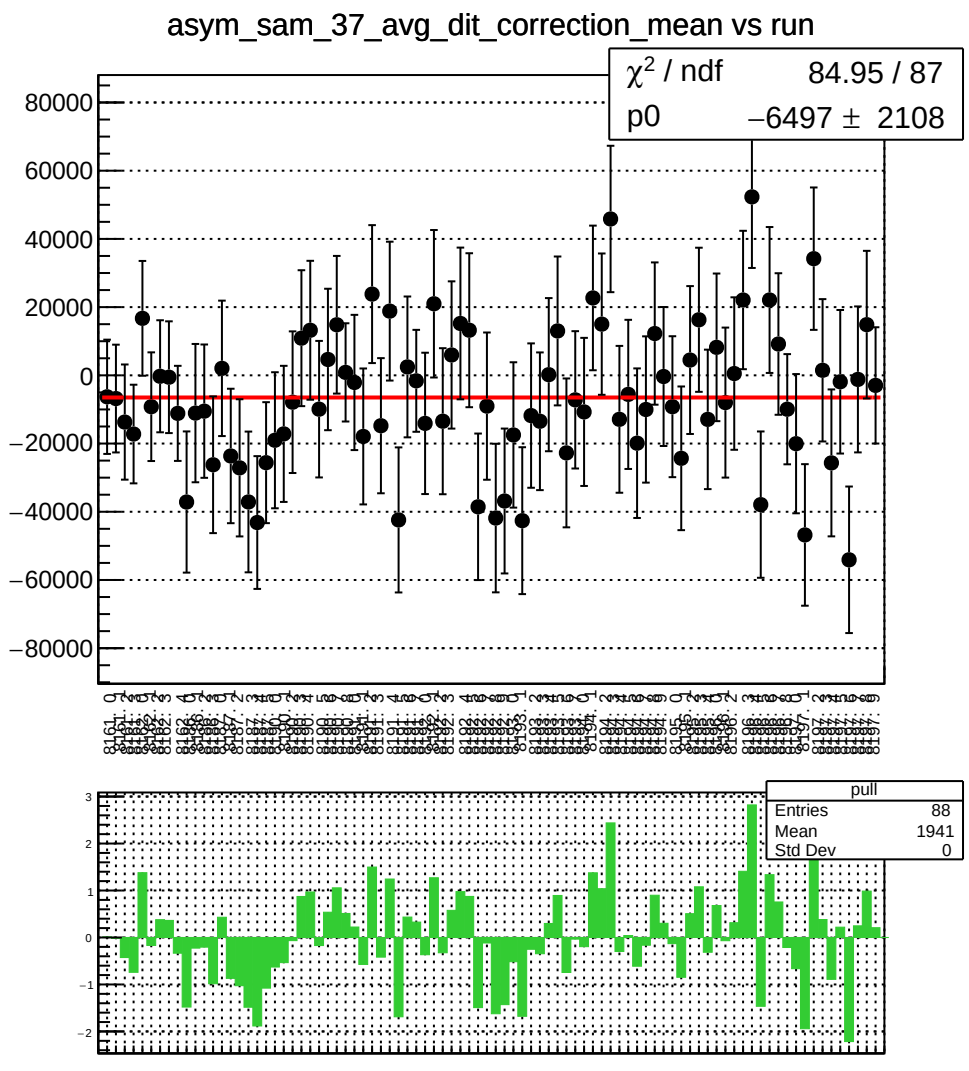

pull1D
Entries 88
Mean 0.002283
Std Dev 0.9805

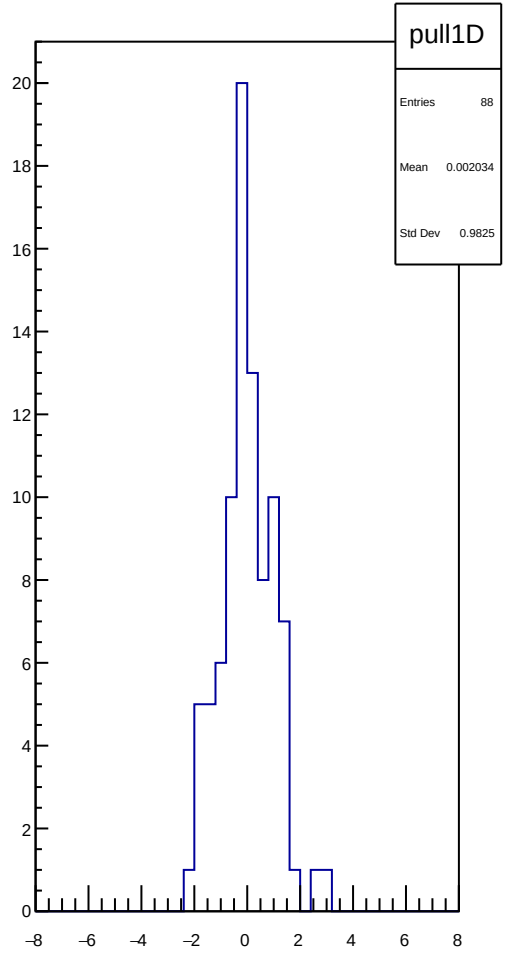

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.052e+04 / 87
p0 1912 ± 1.486
2200
2100
2000
1900
1800
1700
1600
1500

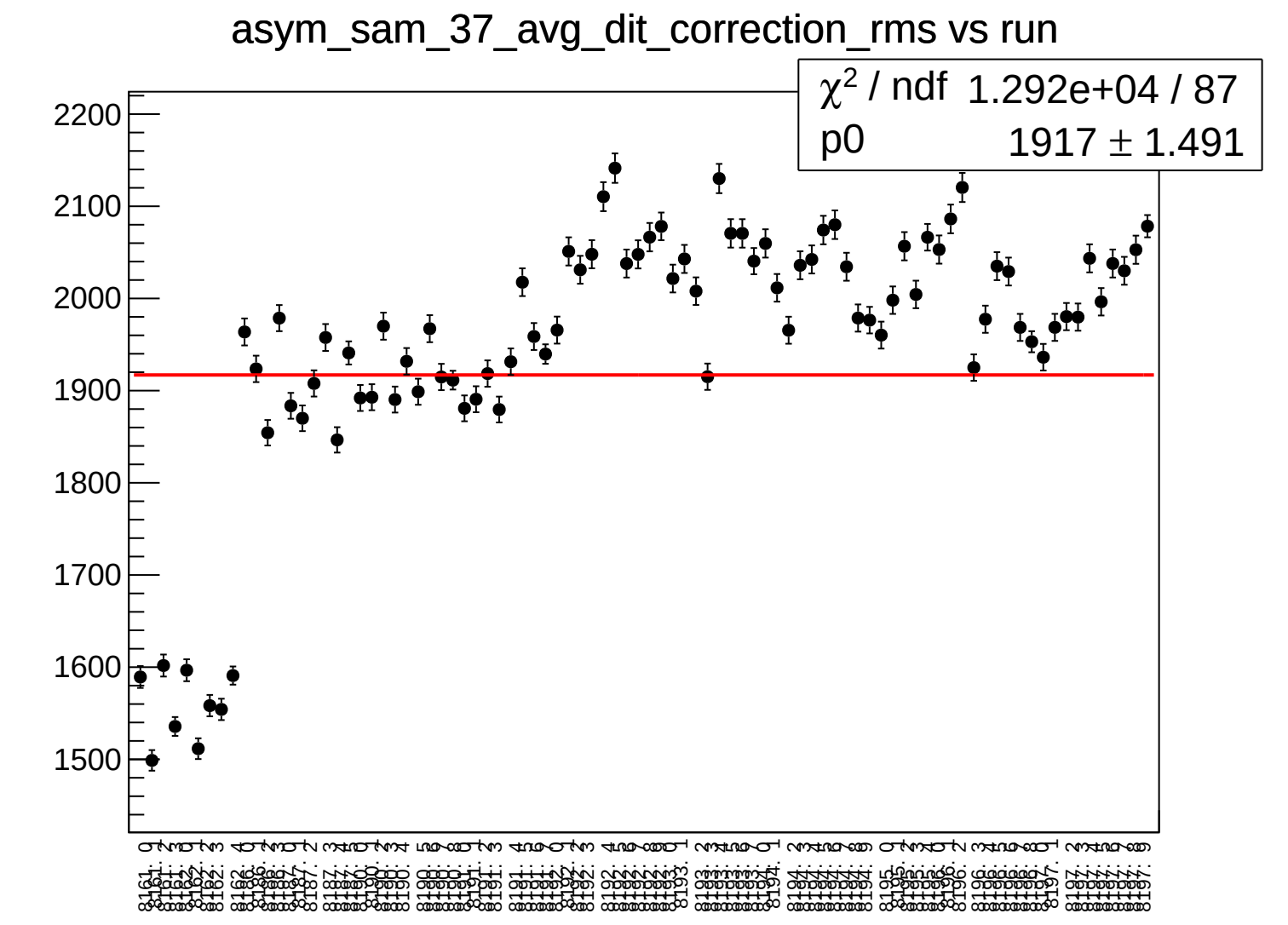

dit_asym_sam_37_avg_mean vs run
χ² / ndf 107.3 / 87
p0 −43.64 ± 173.9
pull
Entries 88
Mean −326.3
Std Dev 0

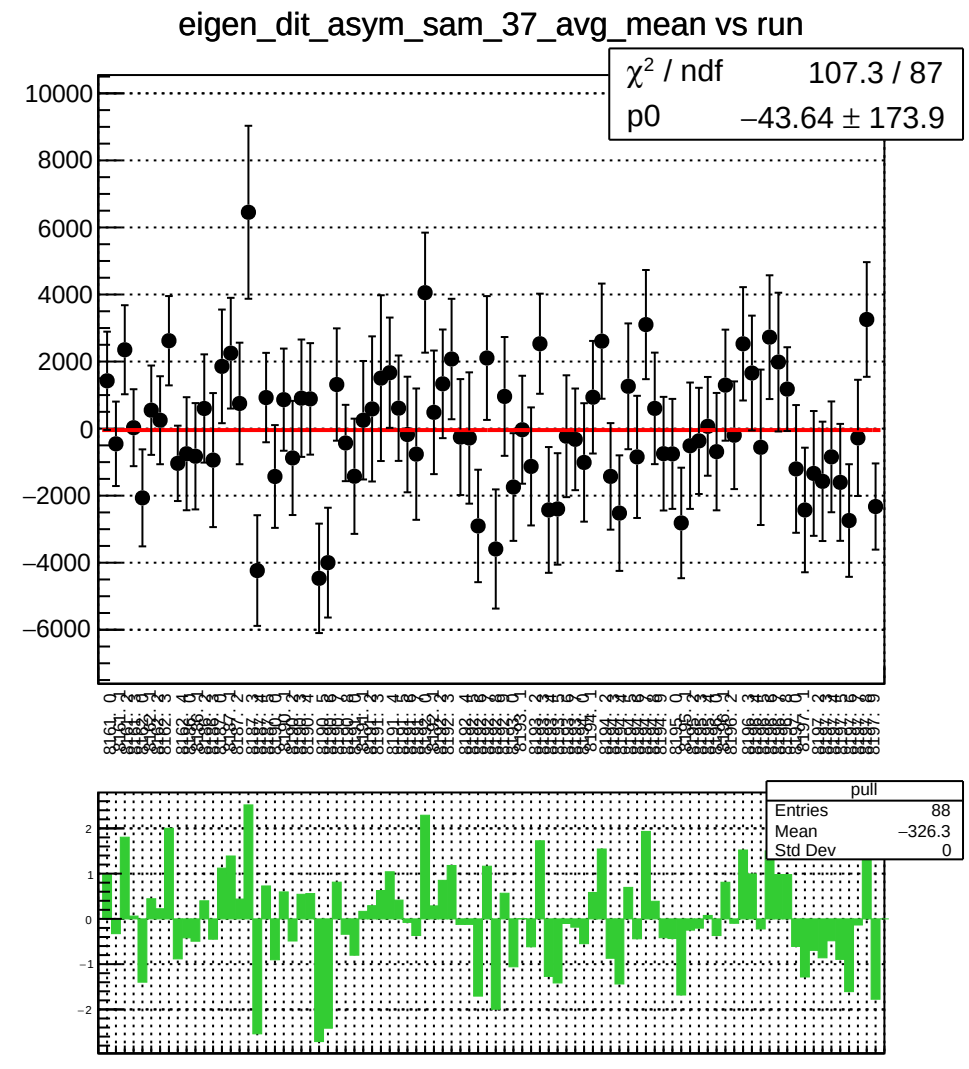

pull1D
Entries 88
Mean 0.007806
Std Dev 1.104

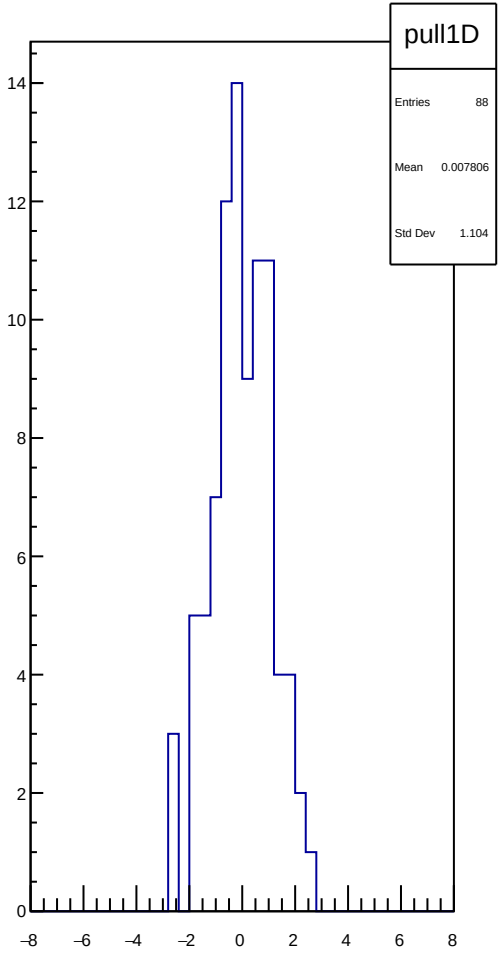

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.846e+04 / 87
p0 157.4 ± 0.1229
260
240
220
200
180
160
140
120

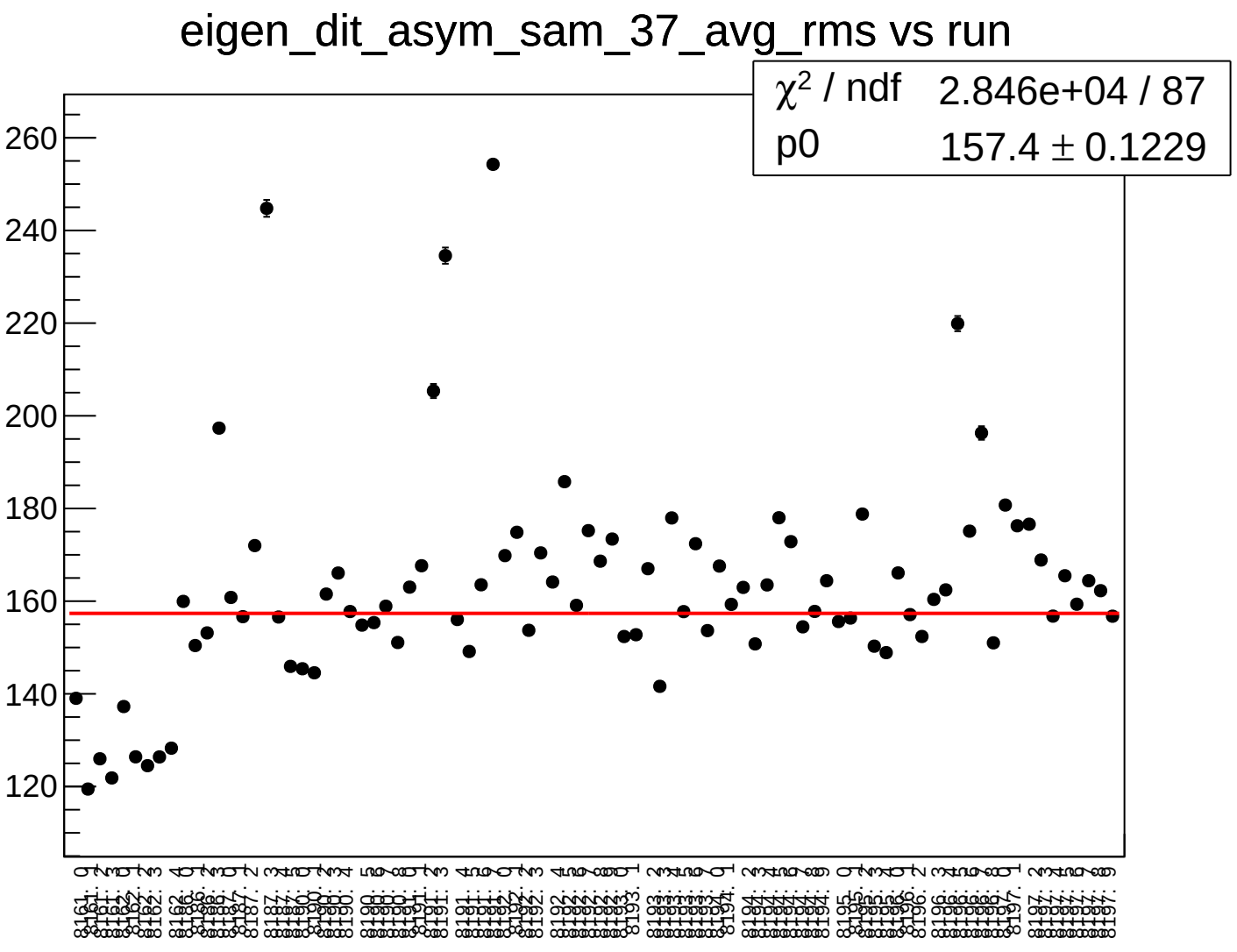

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 84.95 / 87
p0 −6497 ± 2108
pull
Entries 88
Mean 1941
Std Dev 0

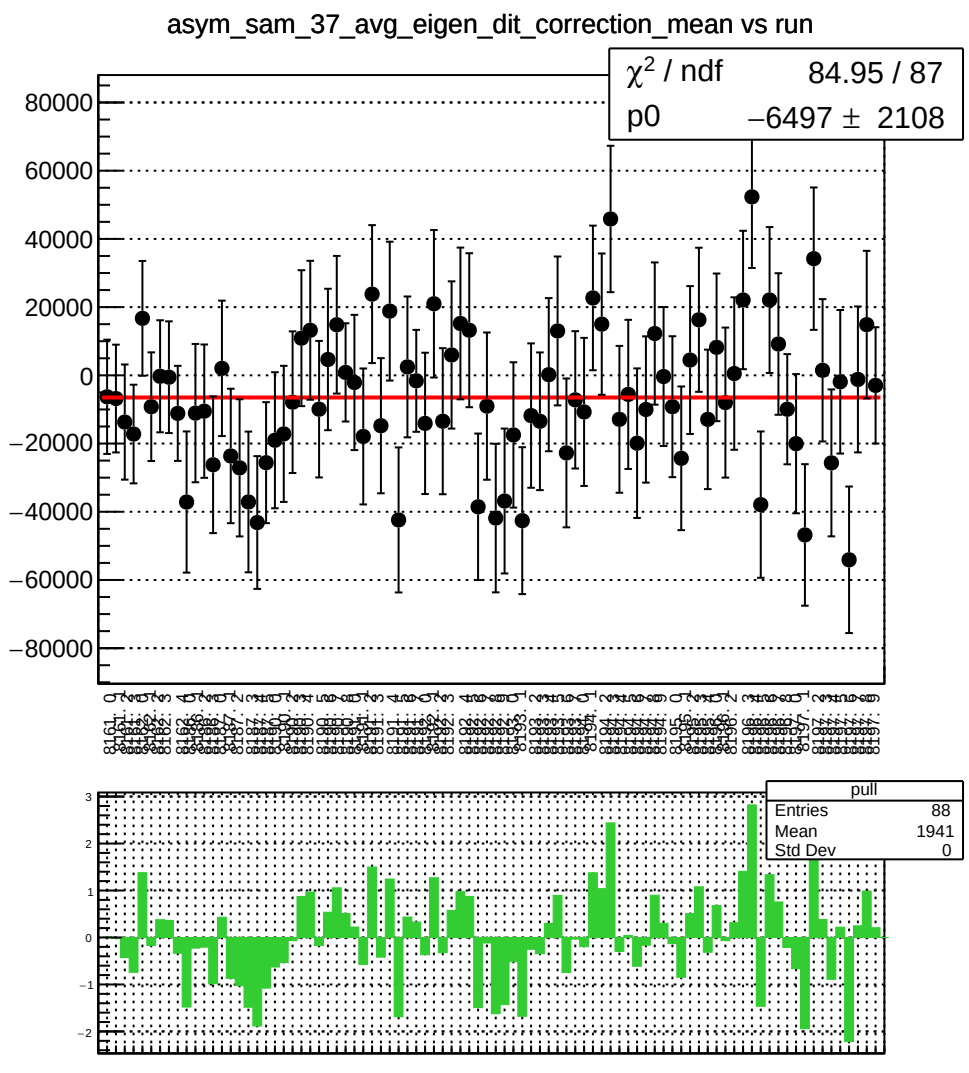

pull1D
Entries 88
Mean 0.002034
Std Dev 0.9825

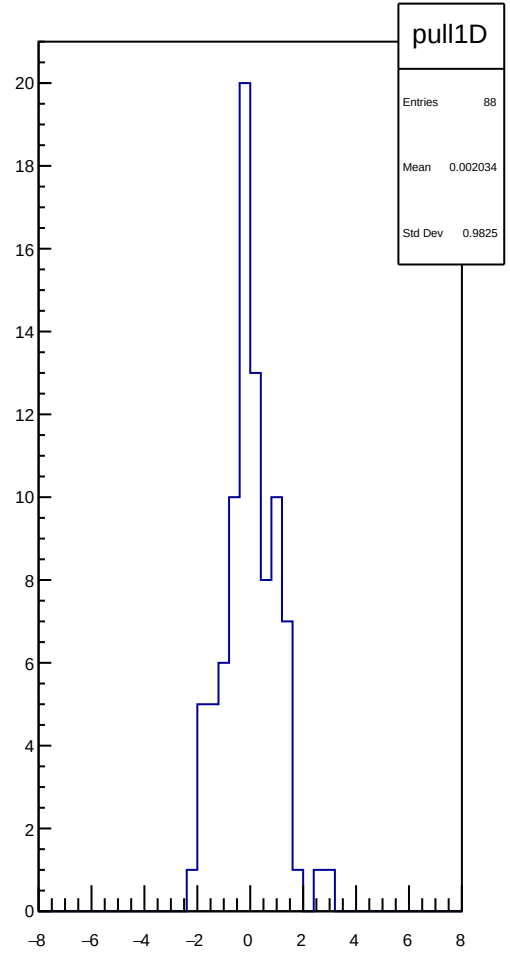

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.292e+04 / 87
p0 1917 ± 1.491
2200
2100
2000
1900
1800
1700
1600
1500

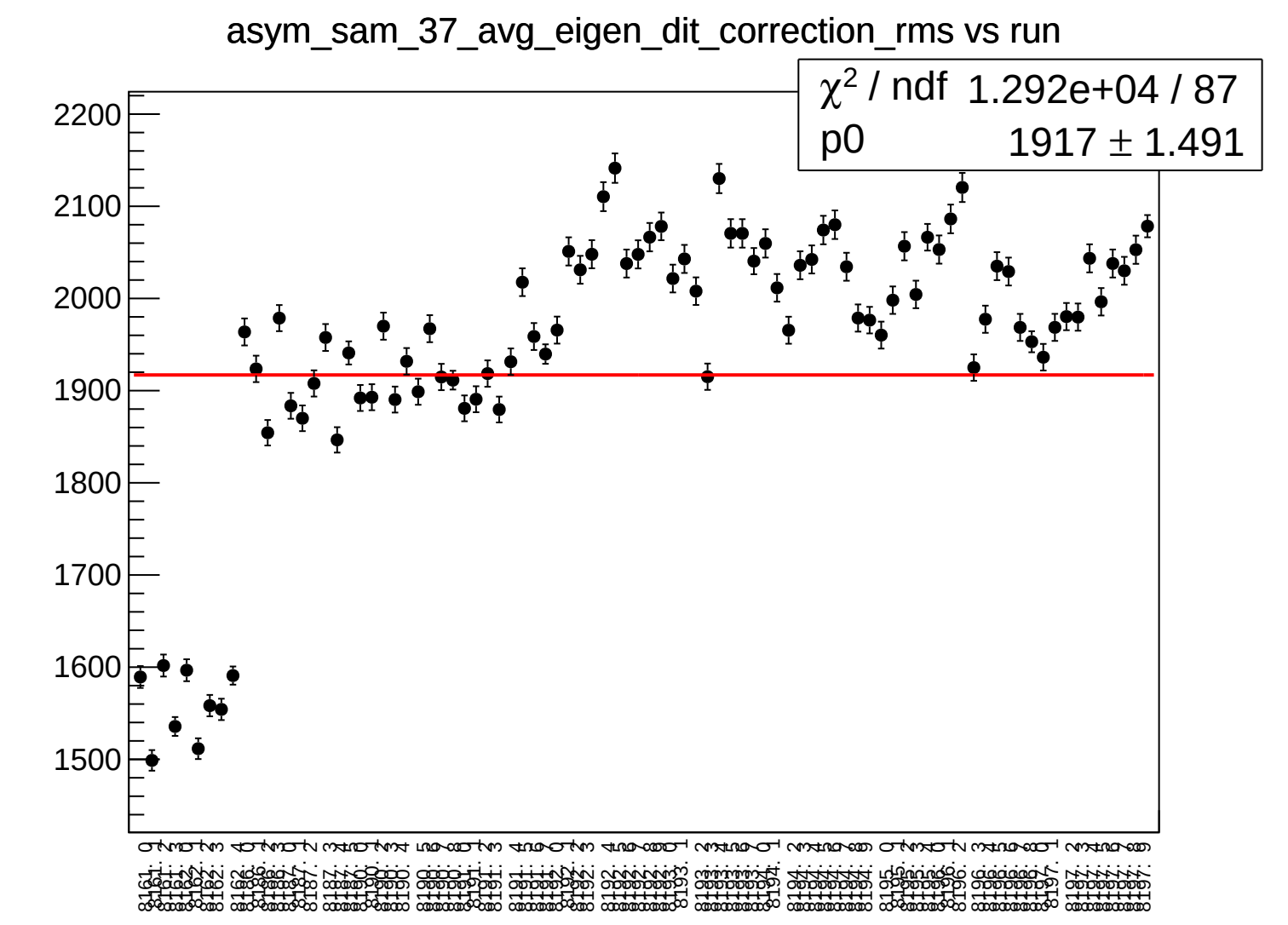

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 107.3 / 87
p0 −43.64 ± 173.9
pull
Entries 88
Mean −326.3
Std Dev 0

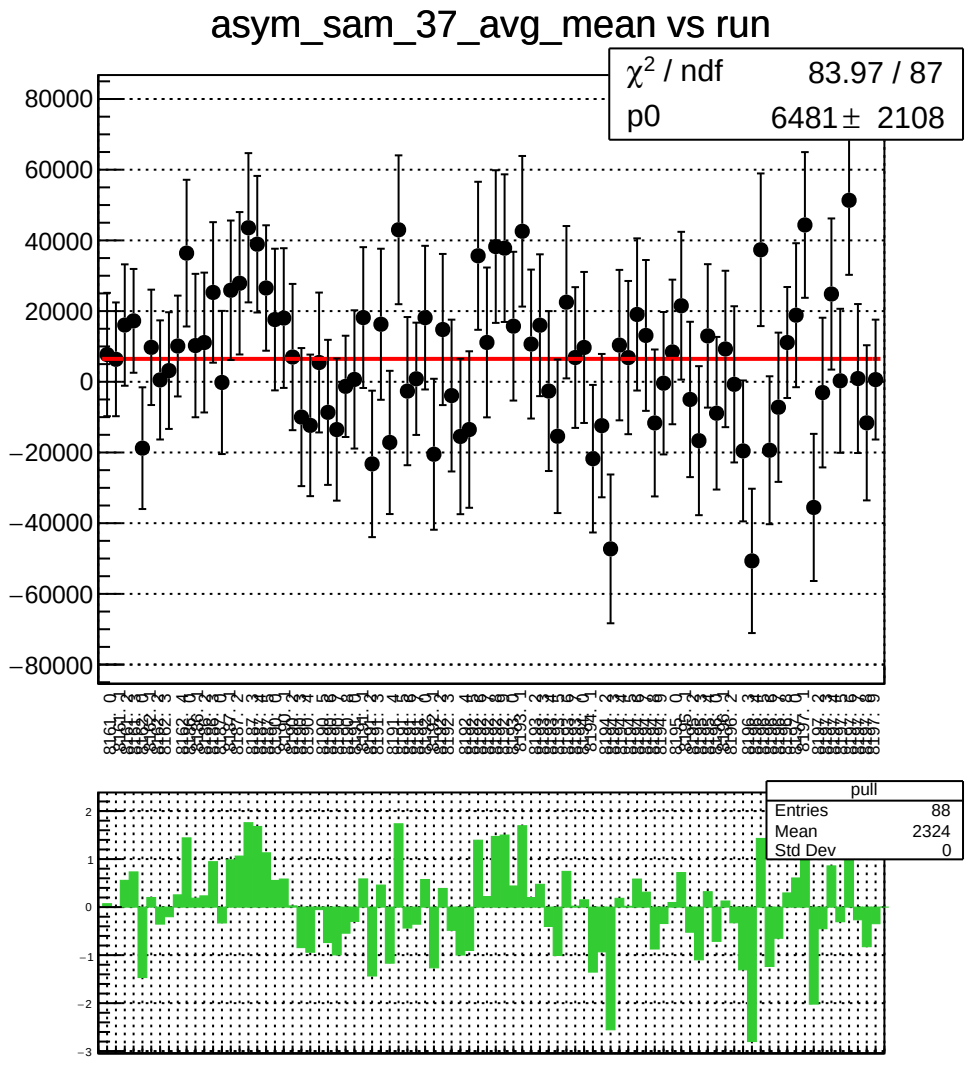

pull1D
Entries 88
Mean 0.007806
Std Dev 1.104

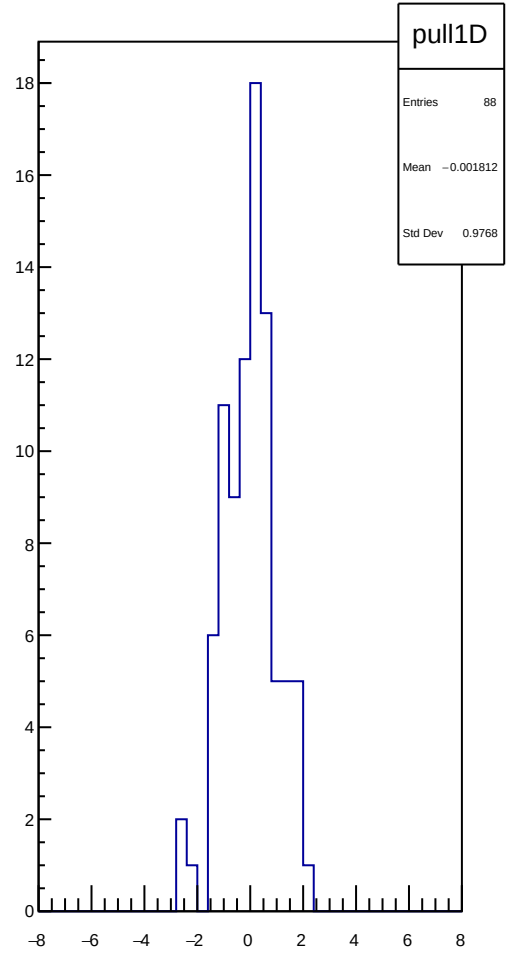

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.846e+04 / 87
p0 157.4 ± 0.1229
260
240
220
200
180
160
140
120

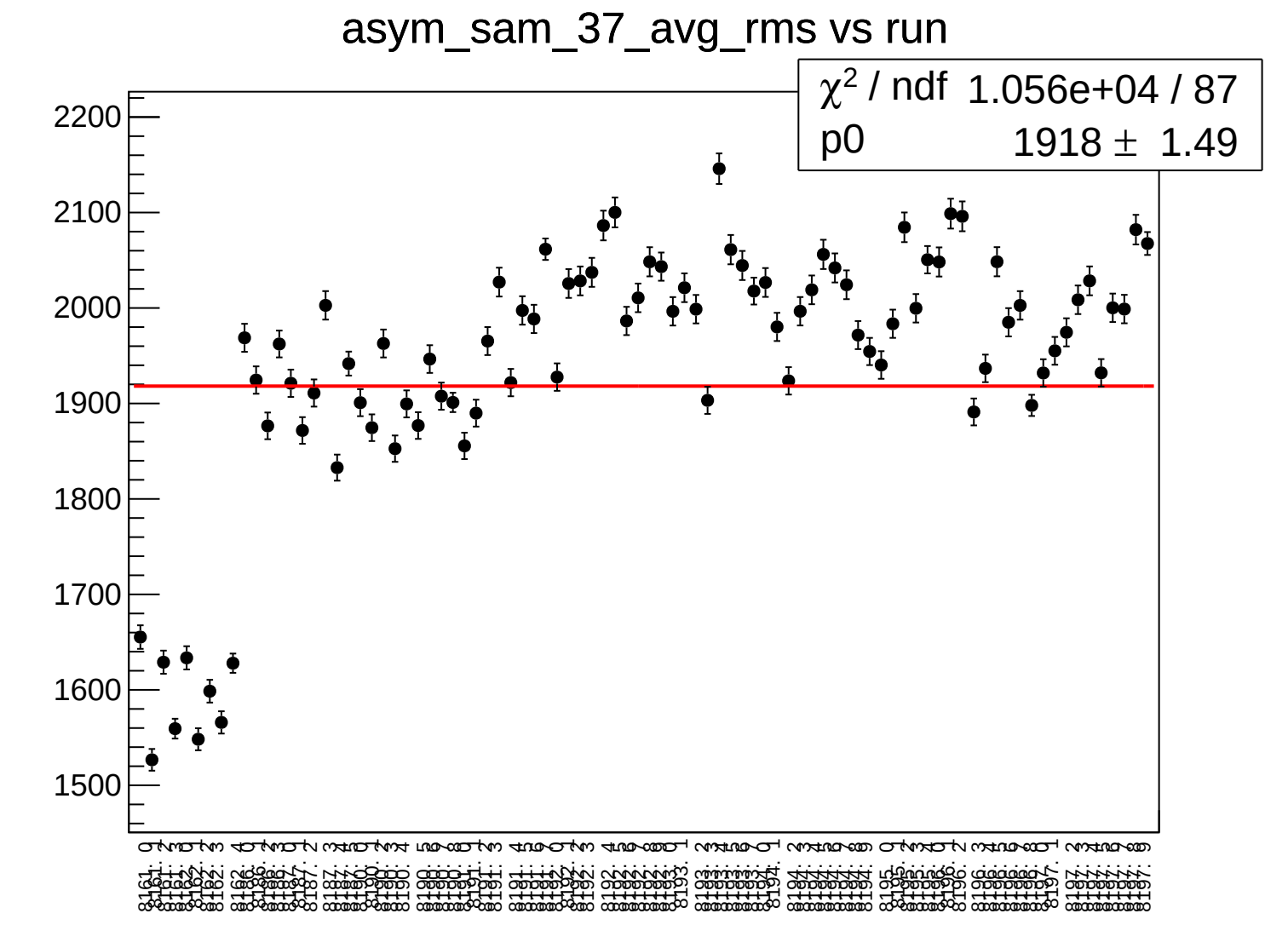

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.95 / 87
p0 −6497 ± 2108
pull
Entries 88
Mean 1941
Std Dev 0

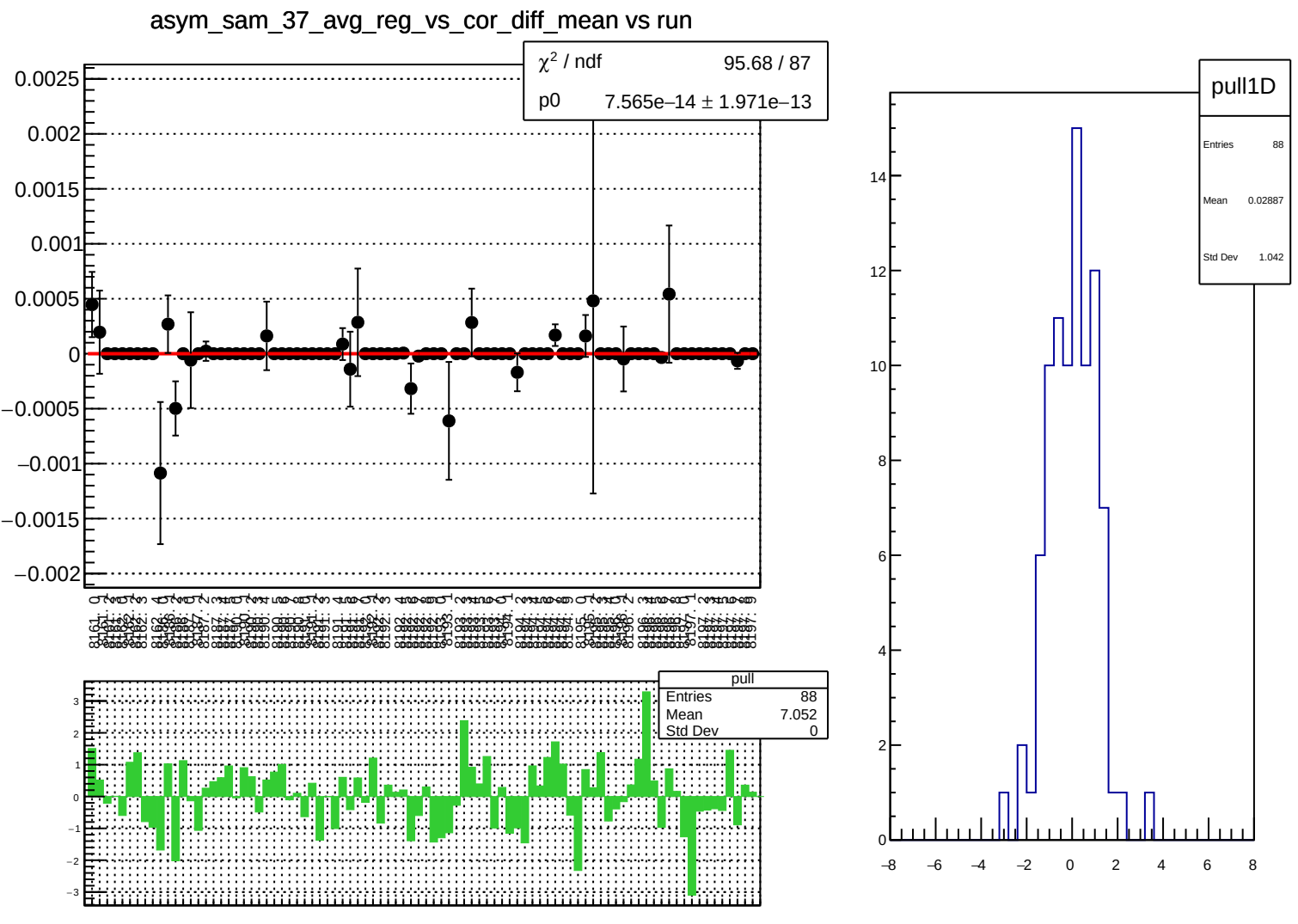

pull1D
Entries 88
Mean 0.002034
Std Dev 0.9825

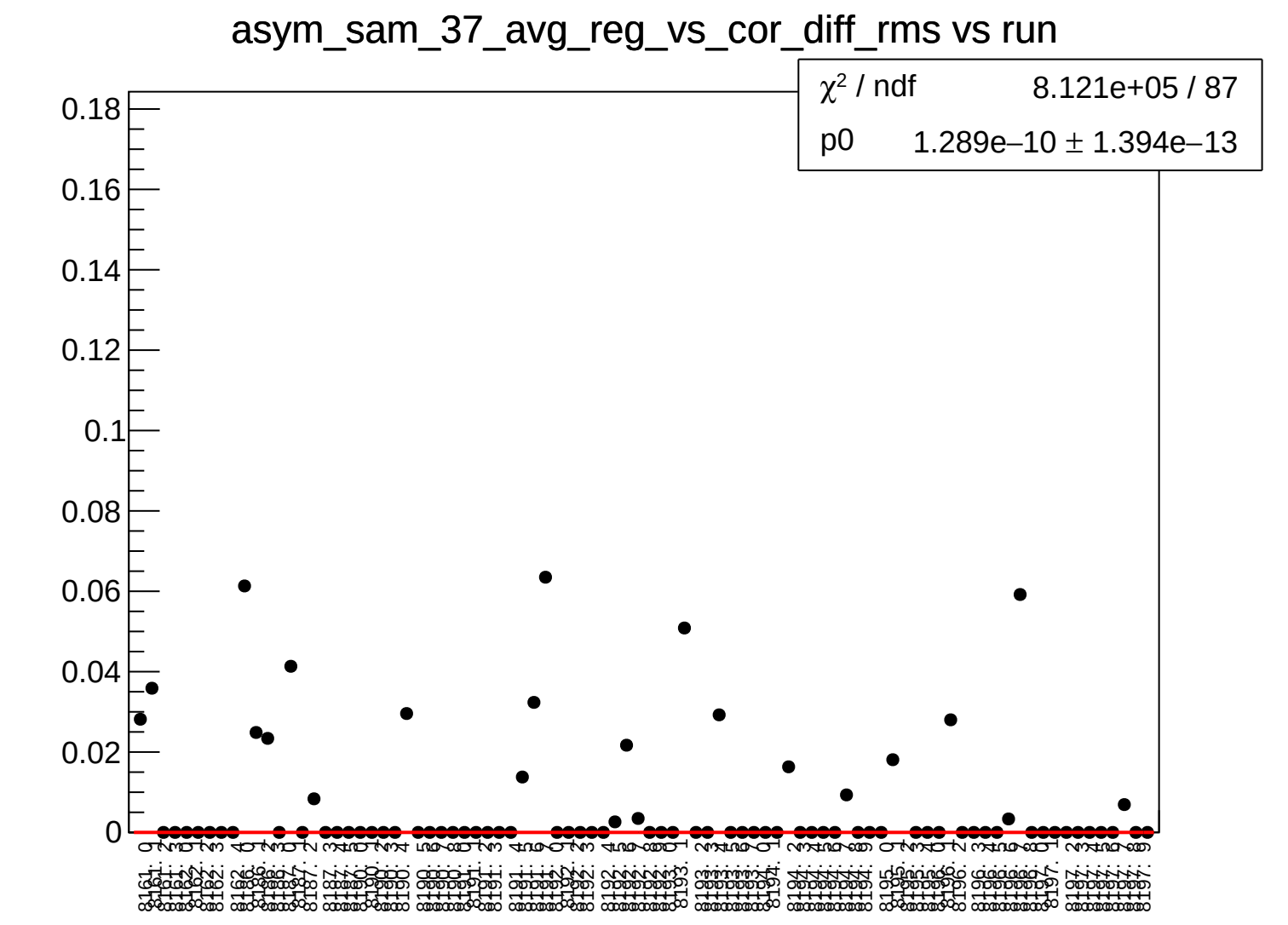

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.292e+04 / 87
p0 1917 ± 1.491
2200
2100
2000
1900
1800
1700
1600
1500

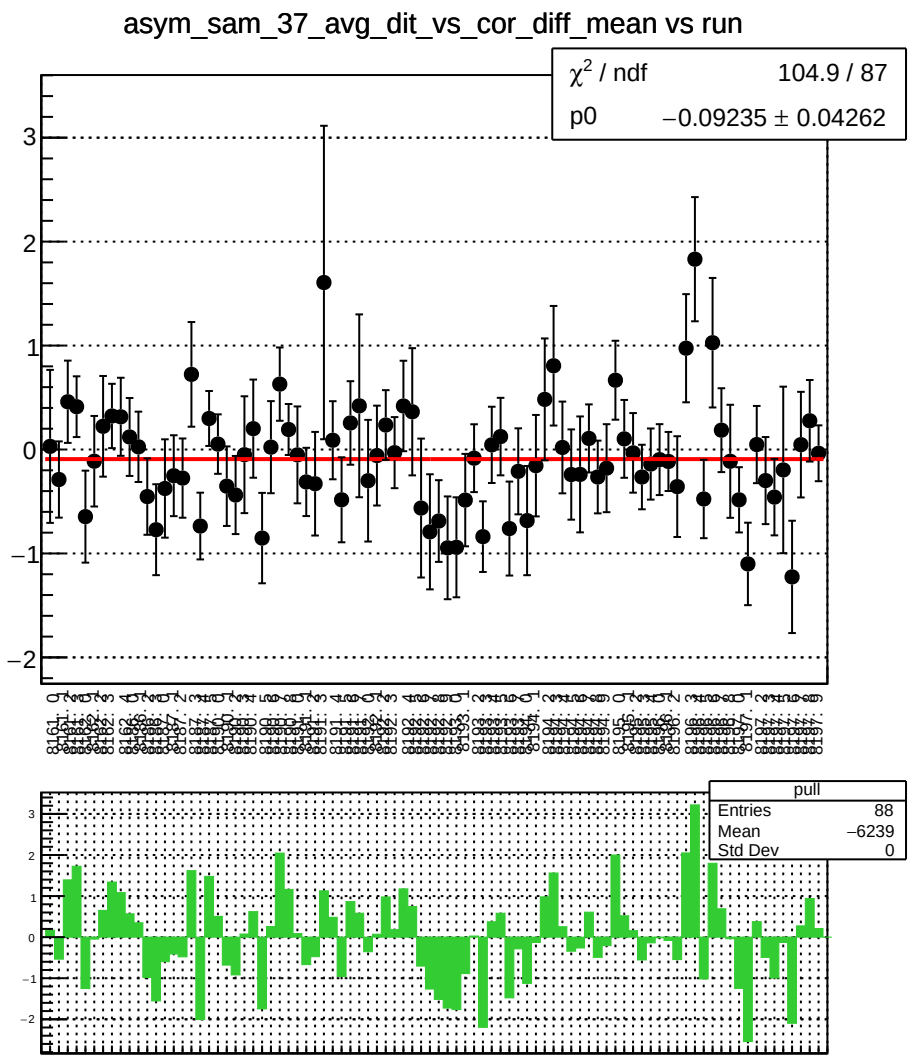

asym_sam_37_avg_mean vs run
χ² / ndf 83.97 / 87
p0 6481 ± 2108
pull
Entries 88
Mean 2324
Std Dev 0

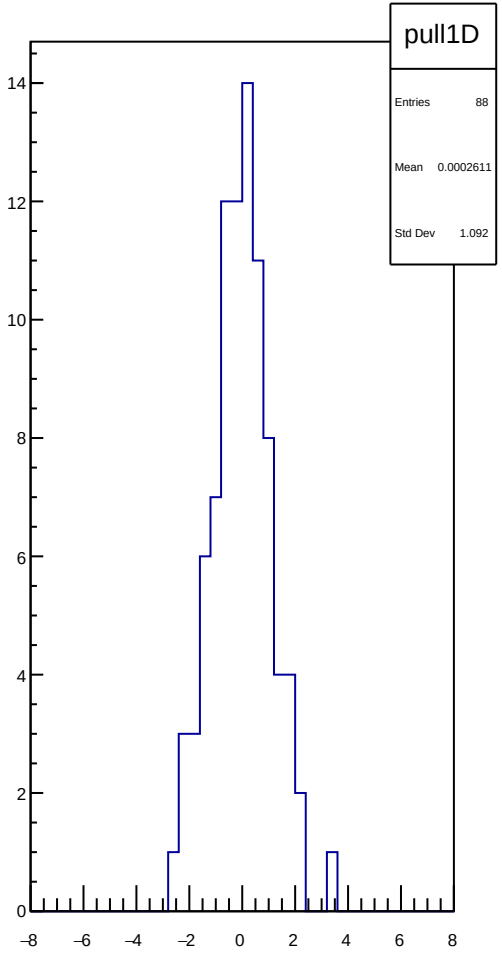

pull1D
Entries 88
Mean −0.001812
Std Dev 0.9768

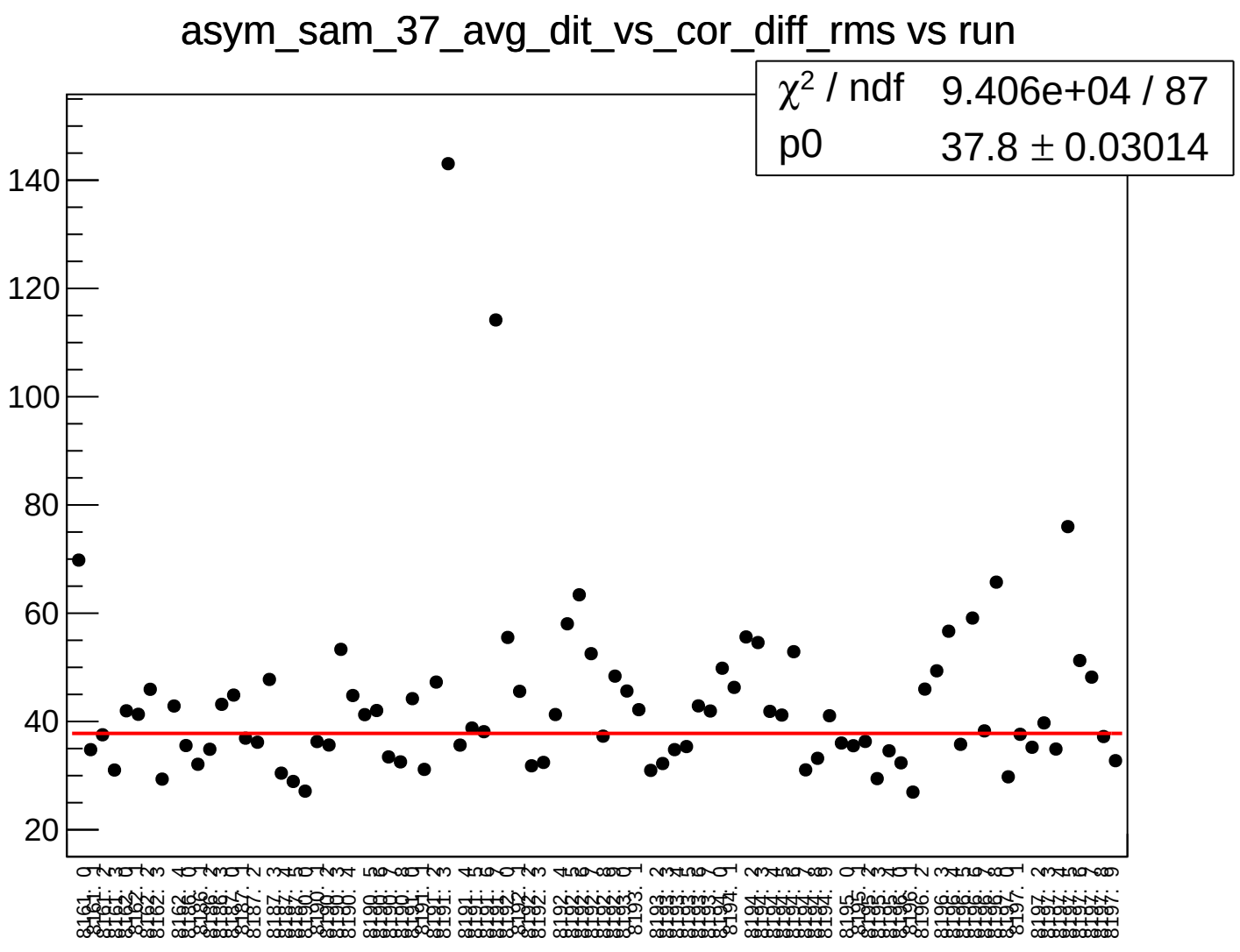

asym_sam_37_avg_rms vs run
χ² / ndf 1.056e+04 / 87
p0 1918 ± 1.49
2200
2100
2000
1900
1800
1700
1600
1500

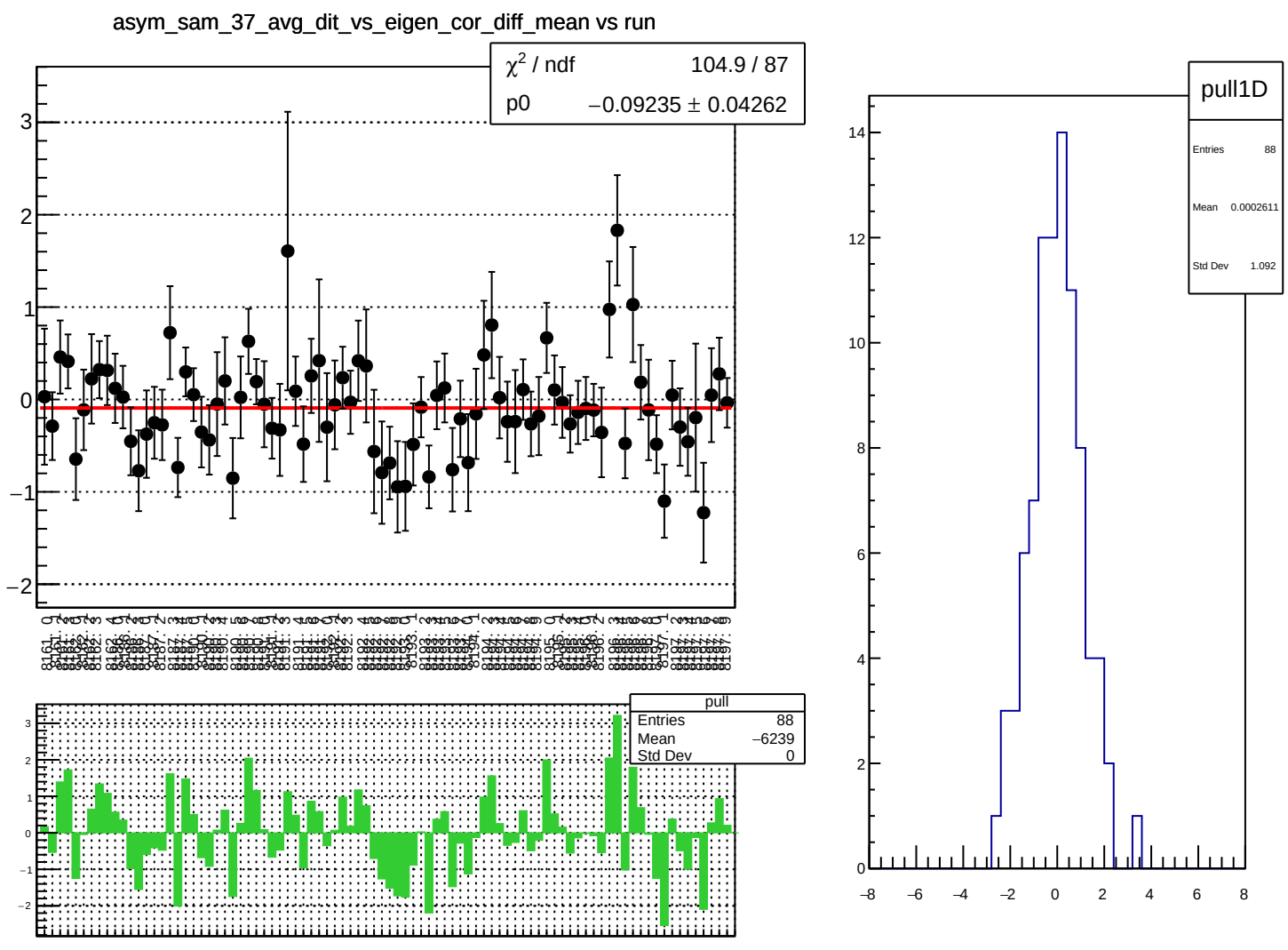

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.68 / 87
p0 7.565e−14 ± 1.971e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 88
Mean 7.052
Std Dev 0
pull1D
Entries 88
Mean 0.02887
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

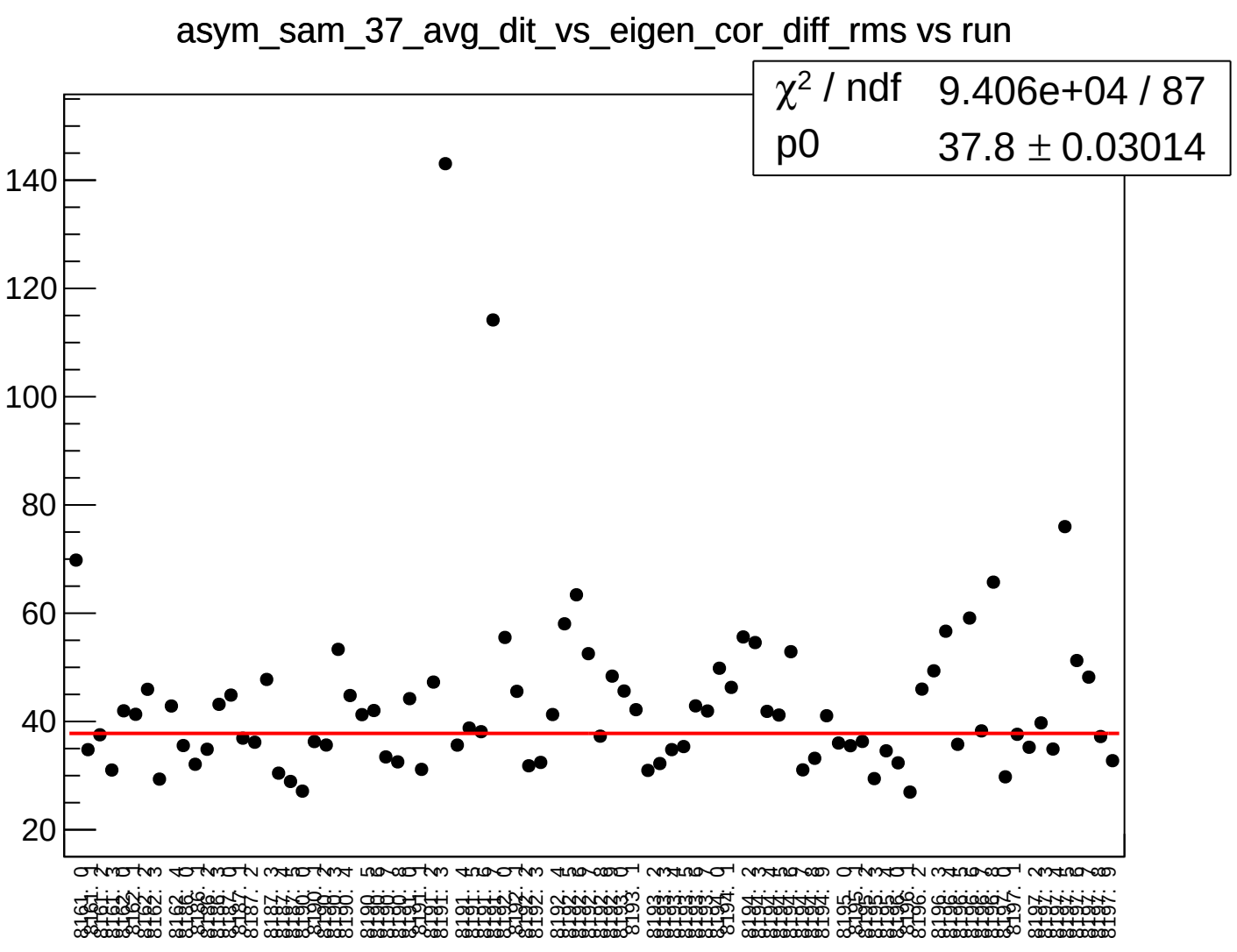

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.121e+05 / 87
p0 1.289e−10 ± 1.394e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

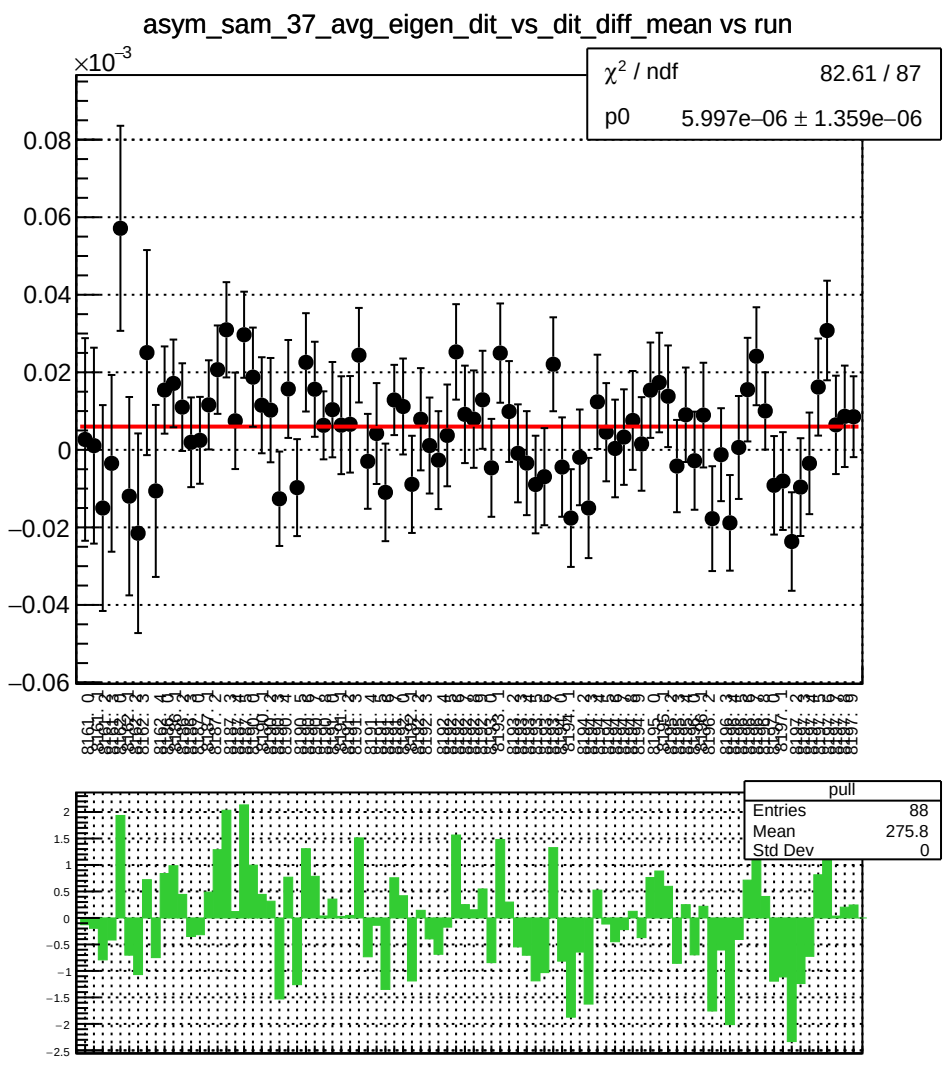

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 87
p0 −0.09235 ± 0.04262
pull
Entries 88
Mean −6239
Std Dev 0

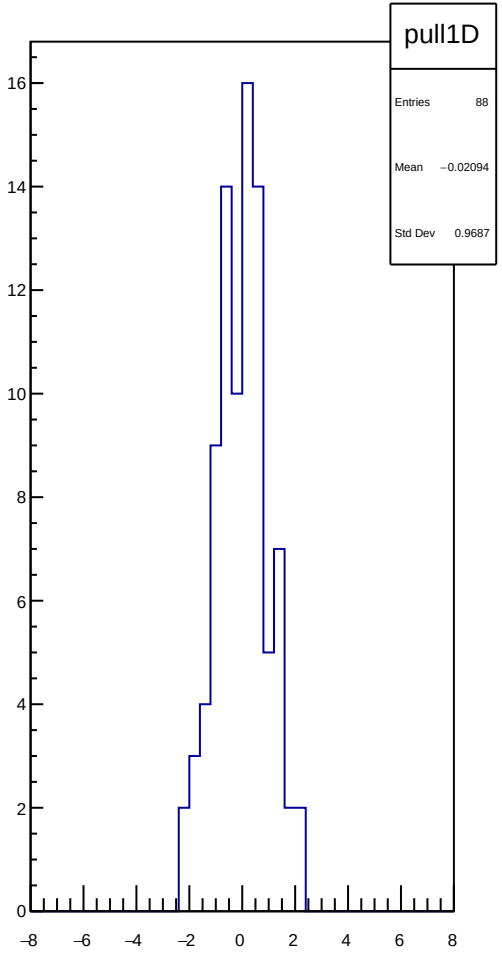

pull1D
Entries 88
Mean 0.0002611
Std Dev 1.092

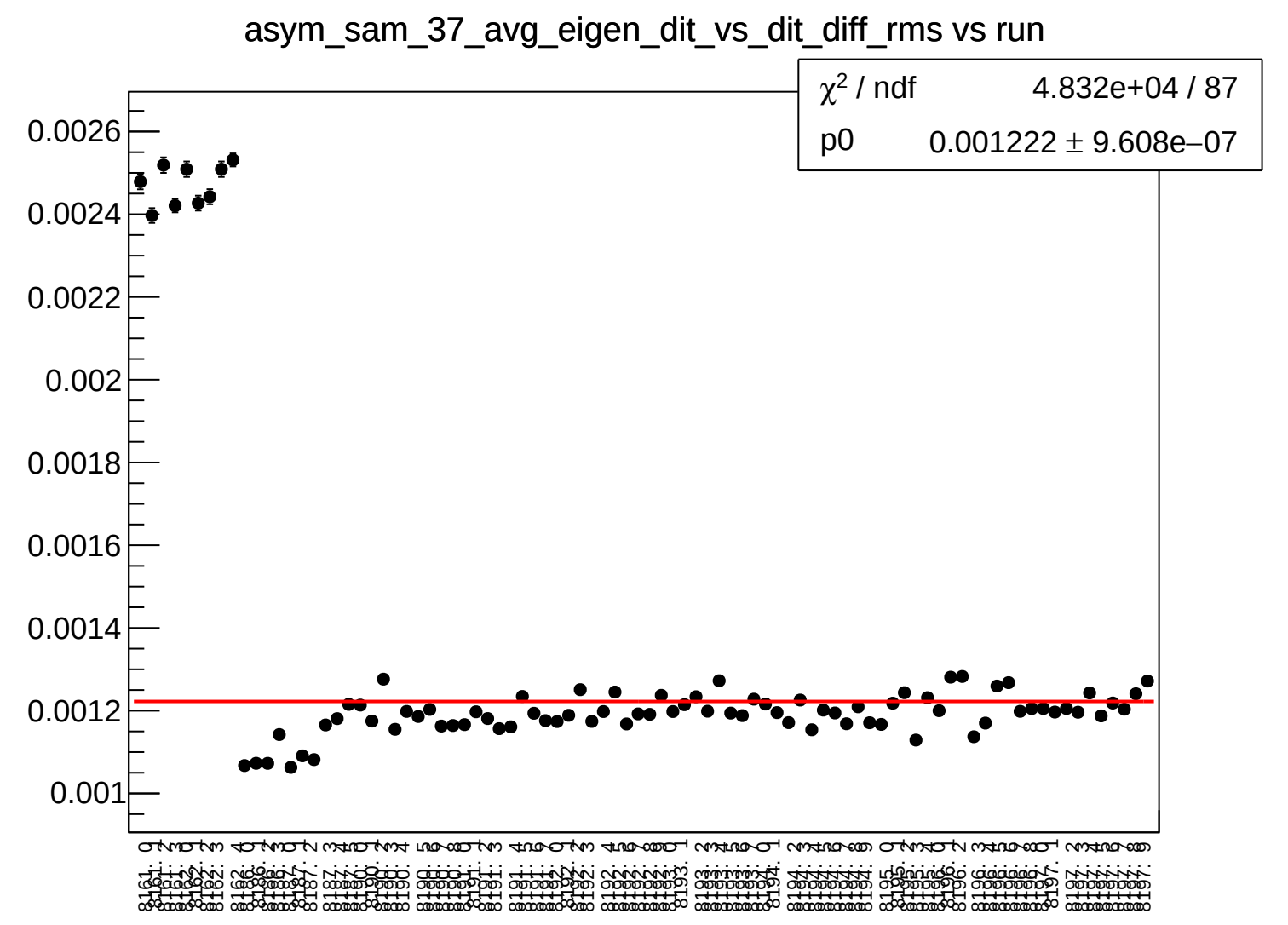

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.406e+04 / 87
p0 37.8 ± 0.03014
140
120
100
80
60
40
20

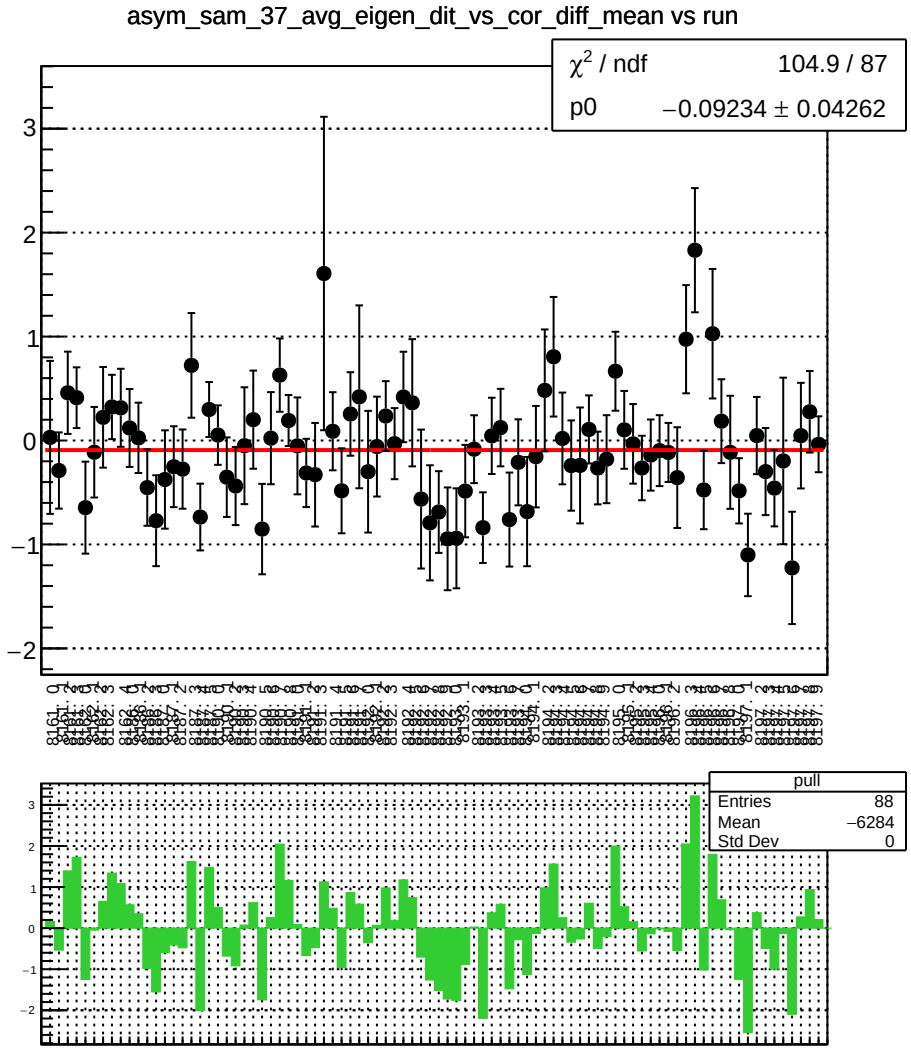

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 87
p0 −0.09235 ± 0.04262
pull
Entries 88
Mean −6239
Std Dev 0
pull1D
Entries 88
Mean 0.0002611
Std Dev 1.092

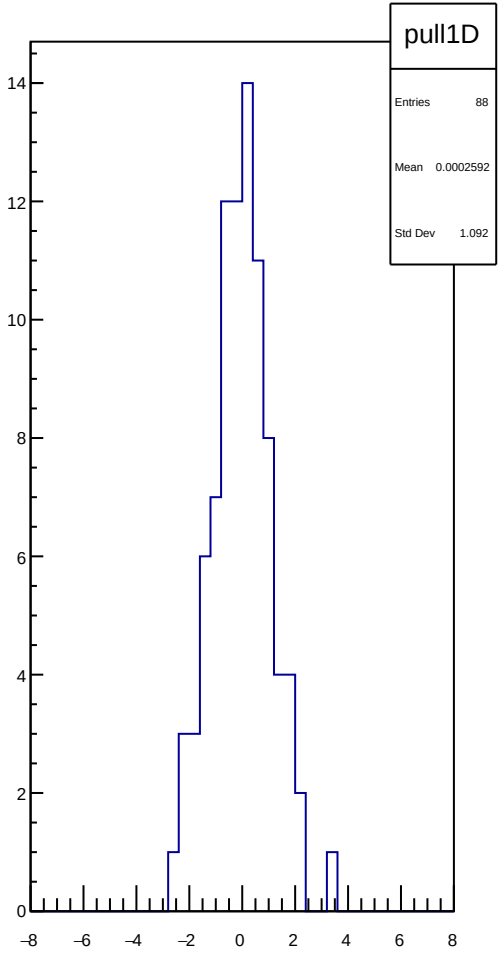

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.406e+04 / 87
p0 37.8 ± 0.03014
140
120
100
80
60
40
20

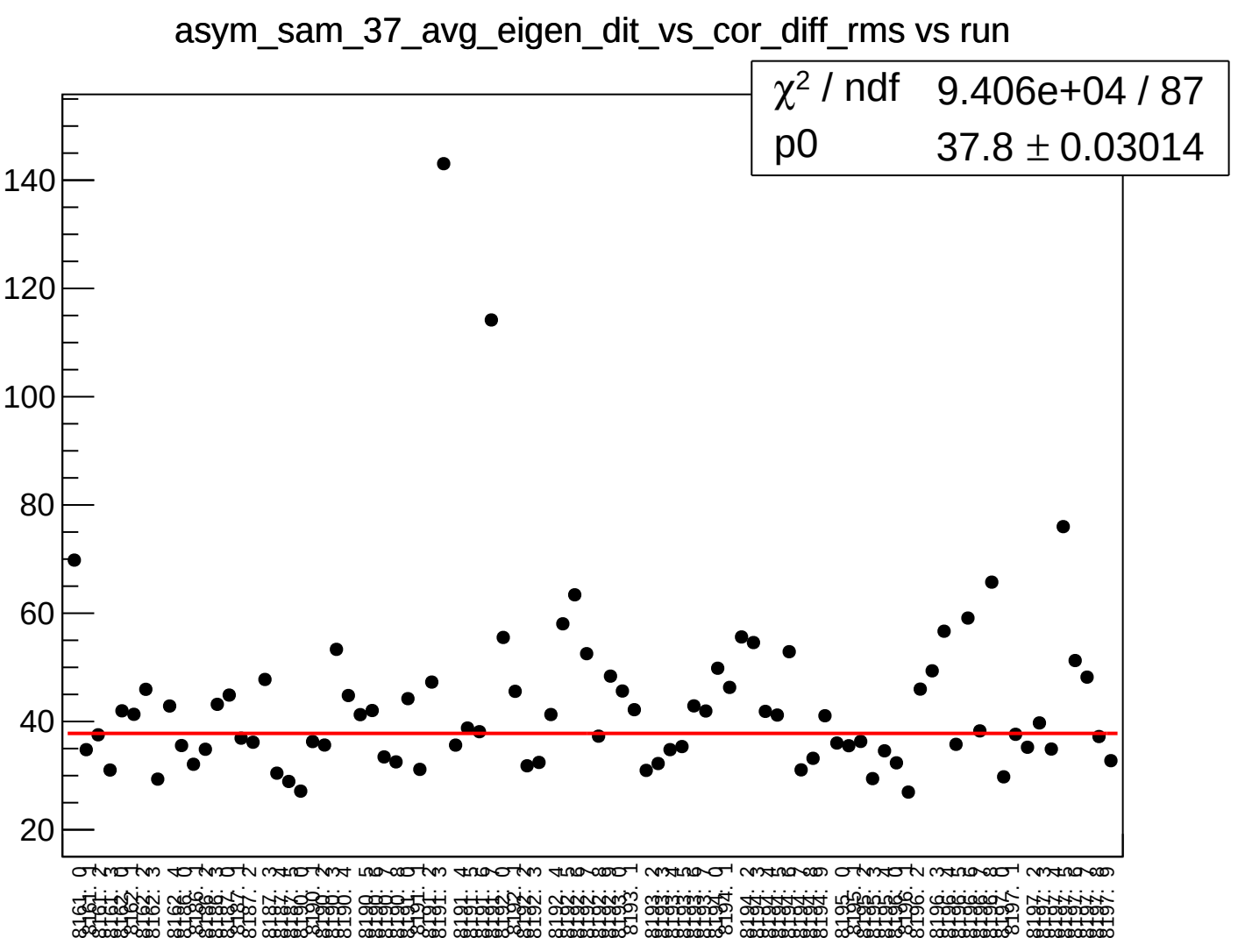

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.61 / 87
p0 5.997e−06 ± 1.359e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 275.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

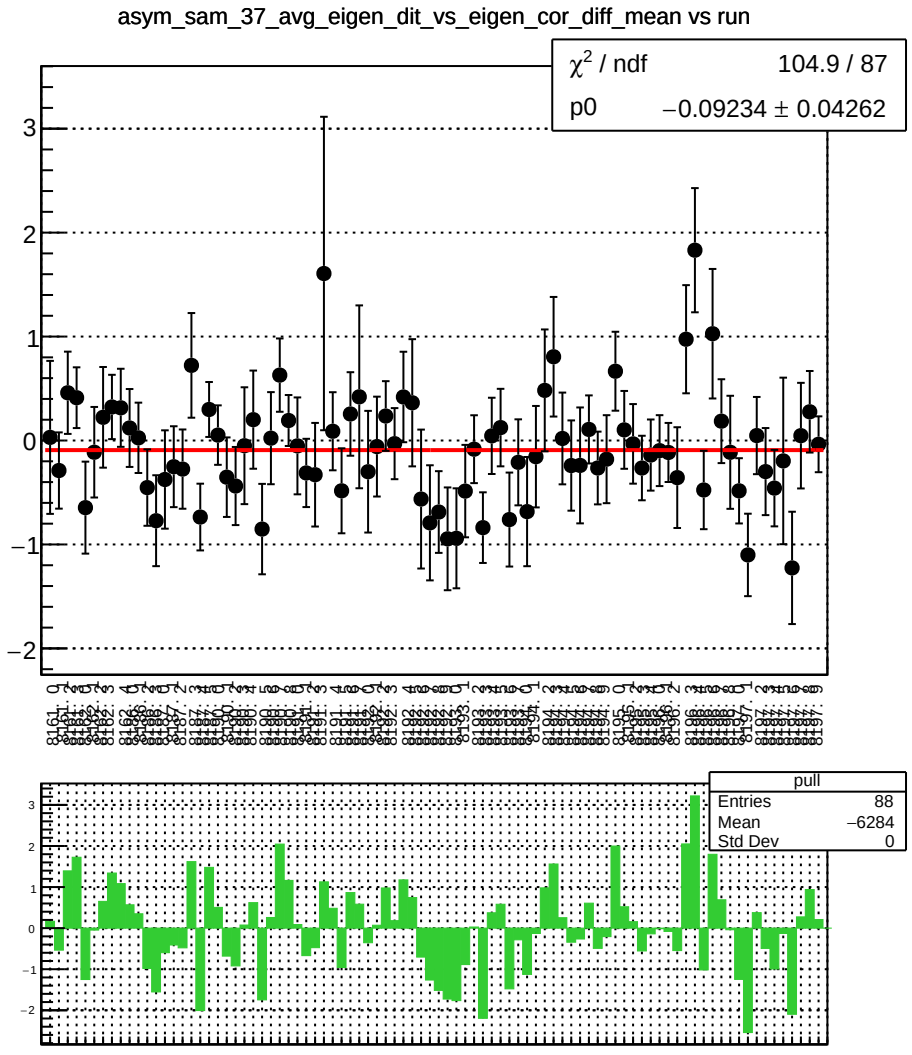

pull1D
Entries 88
Mean −0.02094
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

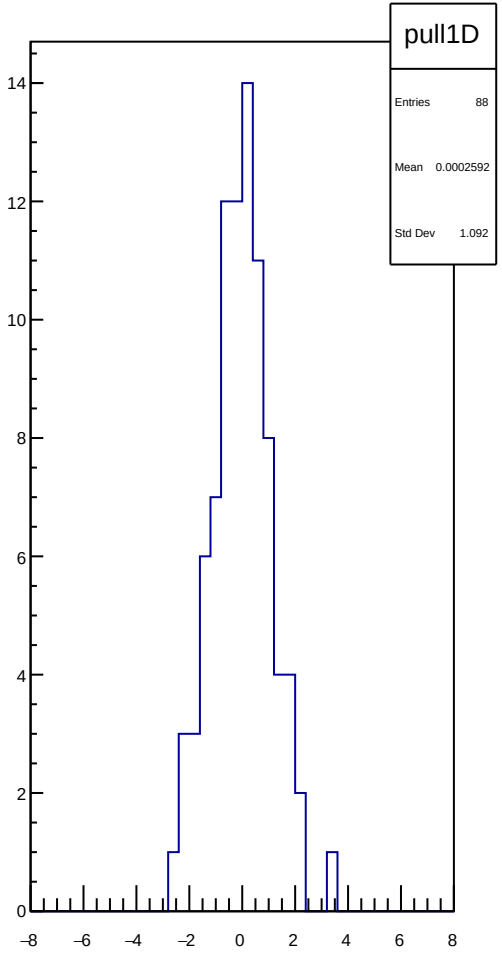

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.832e+04 / 87
p0 0.001222 ± 9.608e−07
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

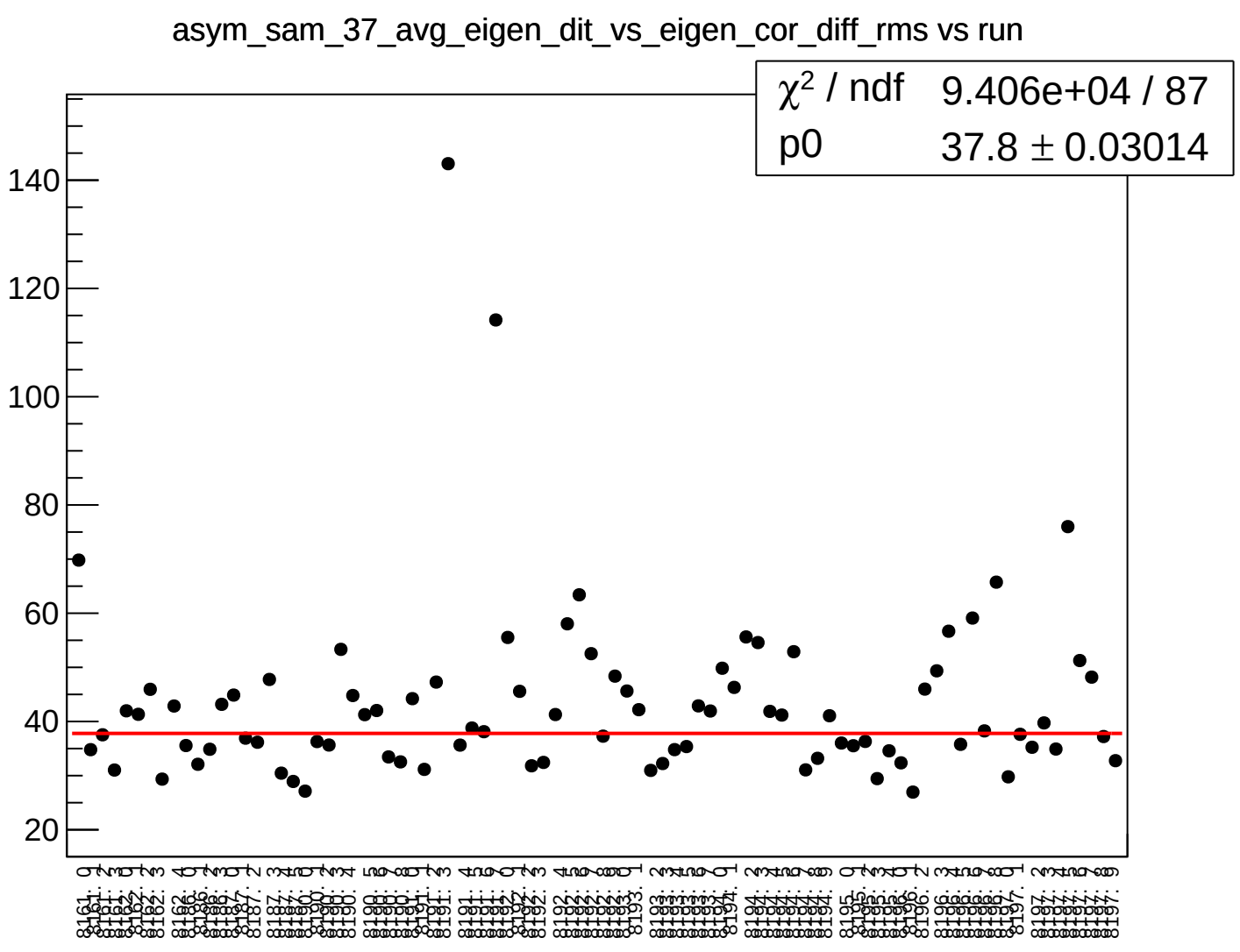

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 87
p0 −0.09234 ± 0.04262
pull
Entries 88
Mean −6284
Std Dev 0

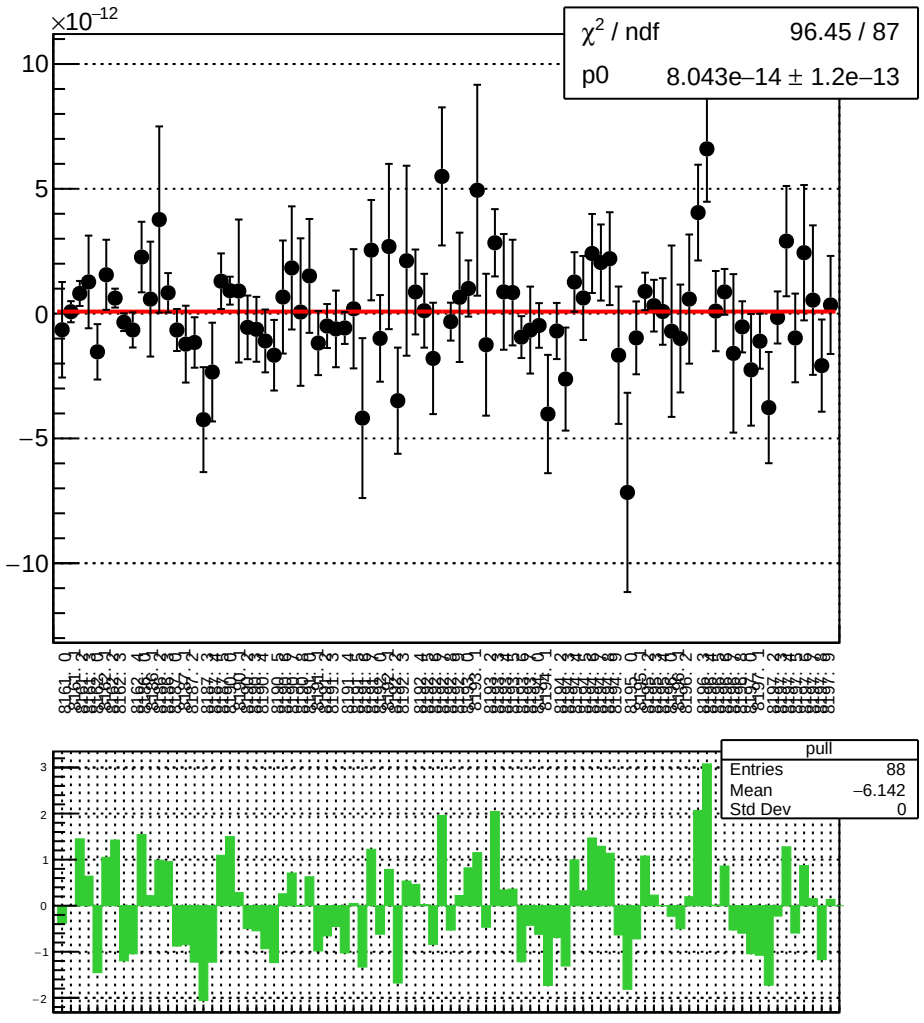

pull1D
Entries 88
Mean 0.0002592
Std Dev 1.092

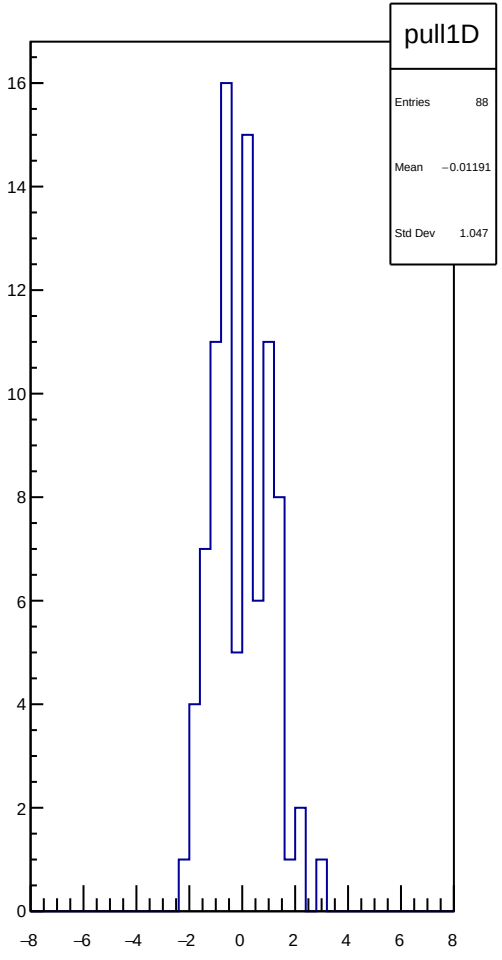

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.406e+04 / 87
p0 37.8 ± 0.03014
140
120
100
80
60
40
20

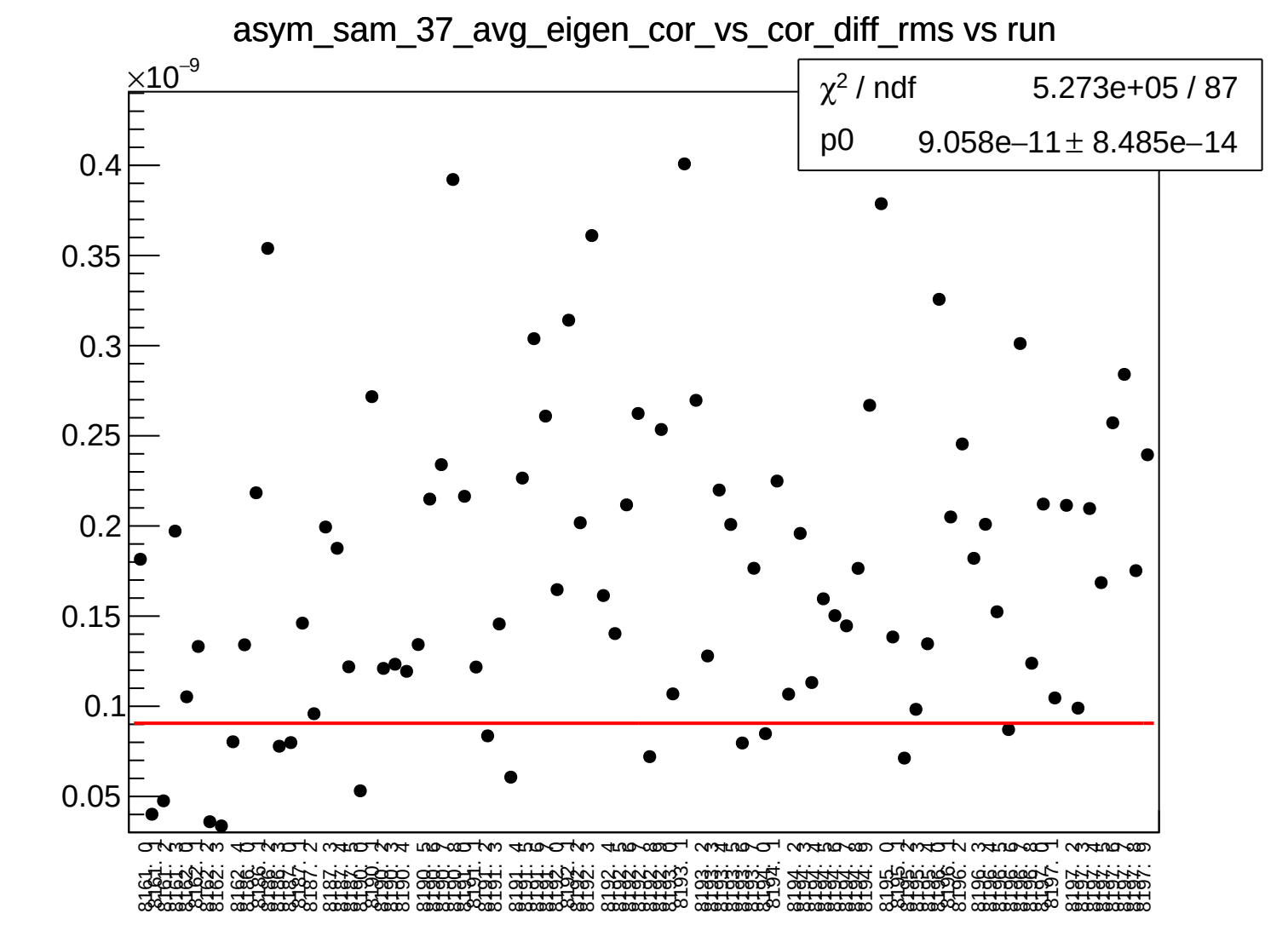

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 87
p0 −0.09234 ± 0.04262
pull
Entries 88
Mean −6284
Std Dev 0

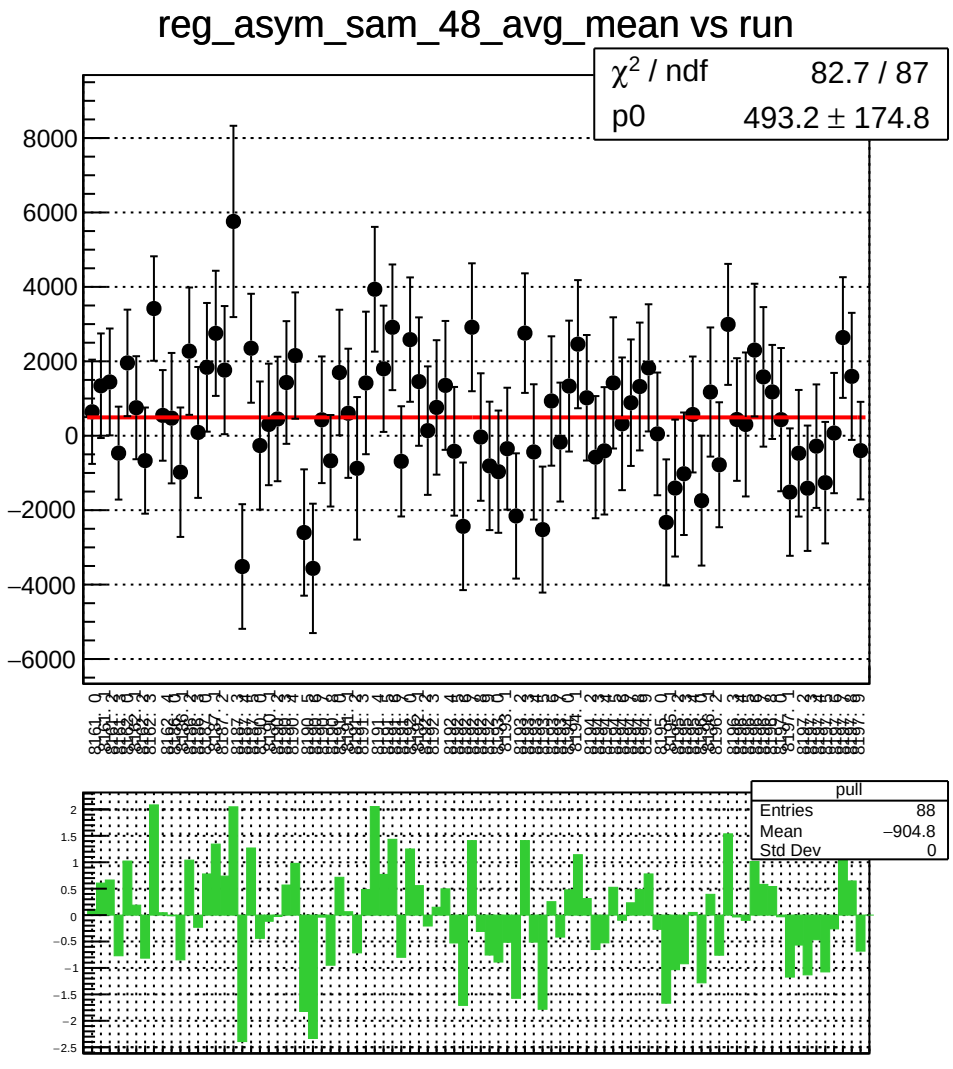

pull1D
Entries 88
Mean 0.0002592
Std Dev 1.092

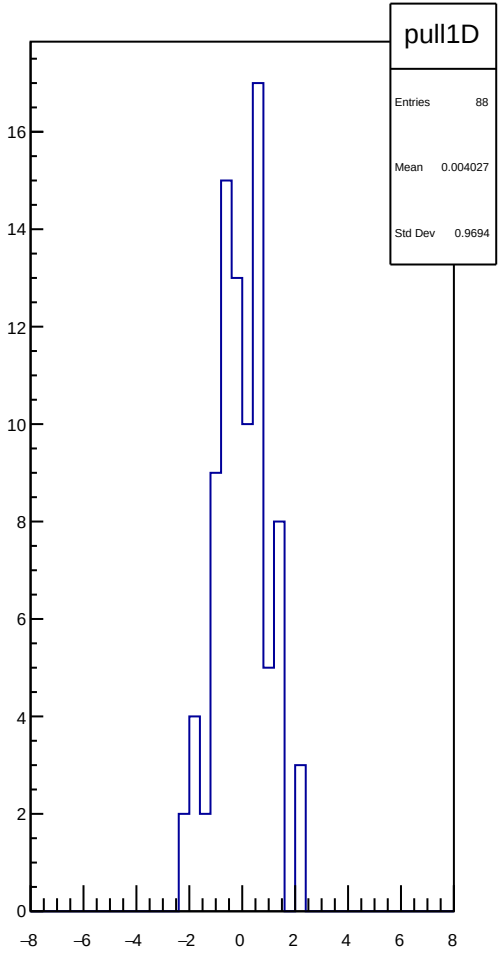

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.406e+04 / 87
p0 37.8 ± 0.03014
140
120
100
80
60
40
20

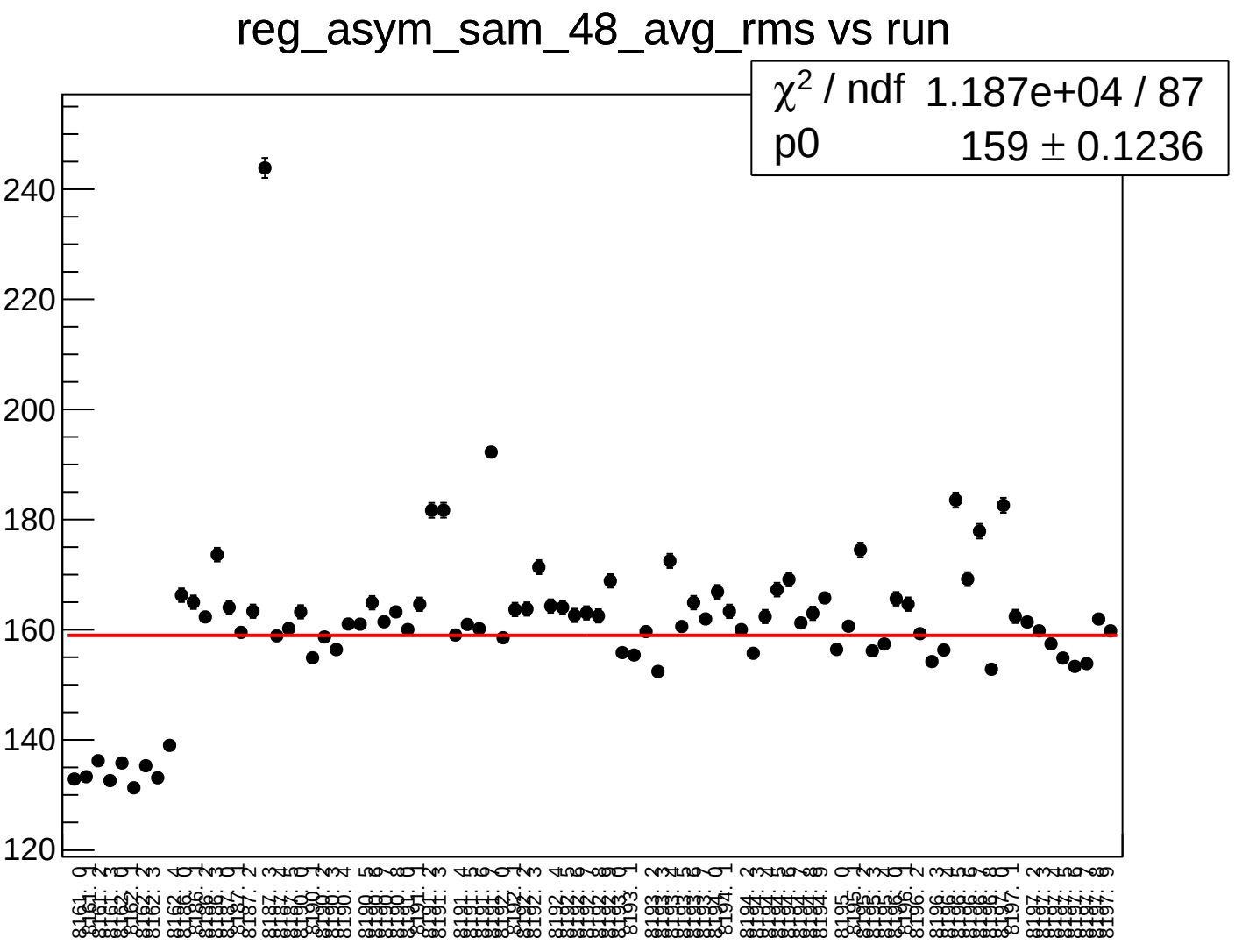

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.45 / 87
p0 8.043e−14 ± 1.2e−13
pull
Entries 88
Mean −6.142
Std Dev 0

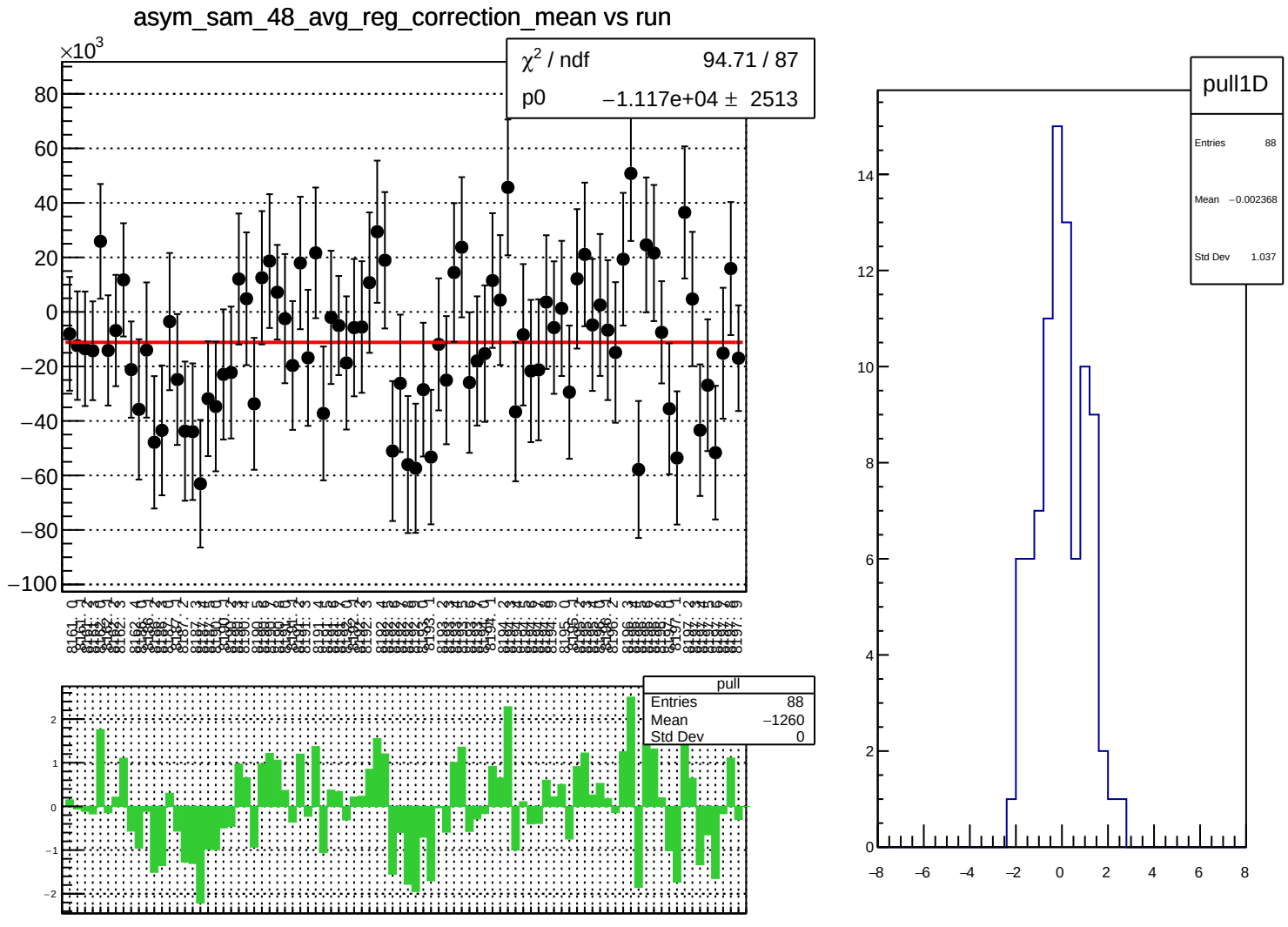

pull1D
Entries 88
Mean −0.01191
Std Dev 1.047

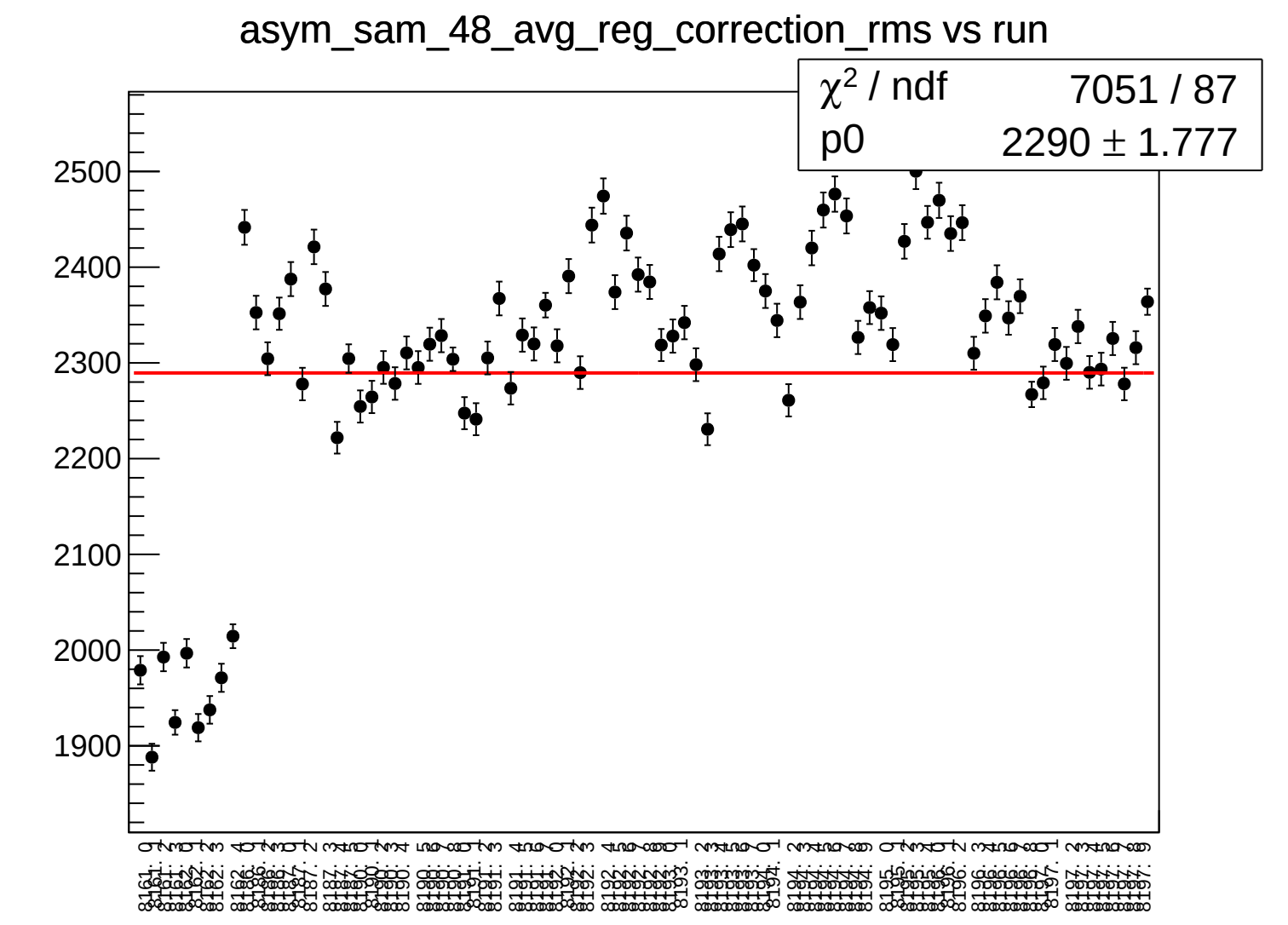

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.273e+05 / 87
p0 9.058e−11 ± 8.485e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

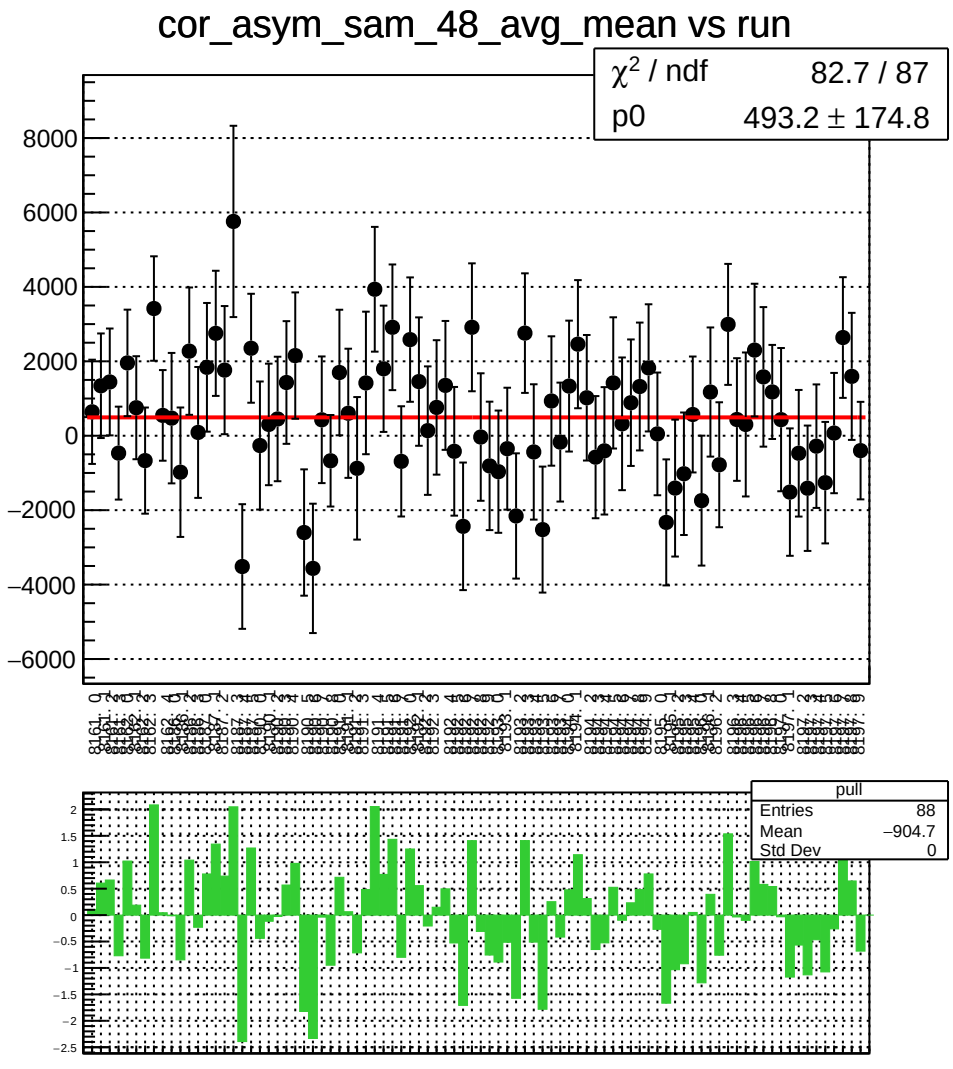

reg_asym_sam_48_avg_mean vs run
χ² / ndf 82.7 / 87
p0 493.2 ± 174.8
pull
Entries 88
Mean −904.8
Std Dev 0

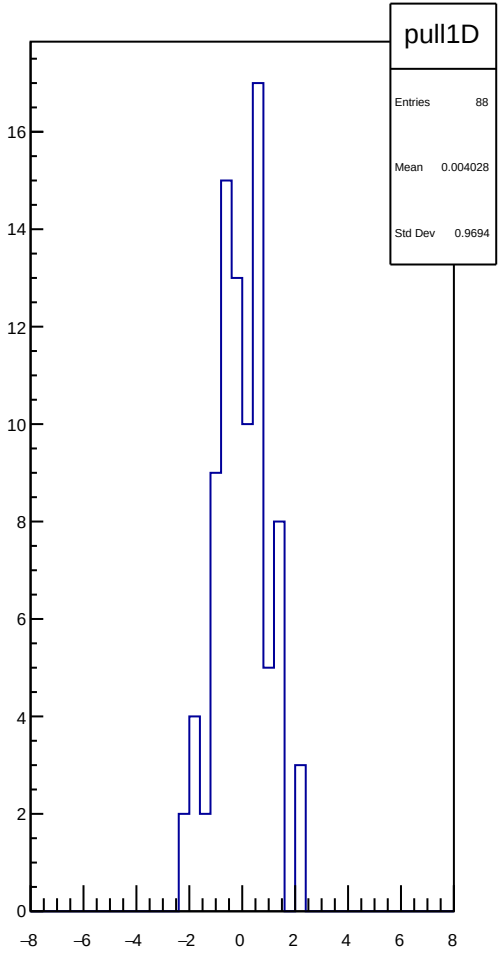

pull1D
Entries 88
Mean 0.004027
Std Dev 0.9694

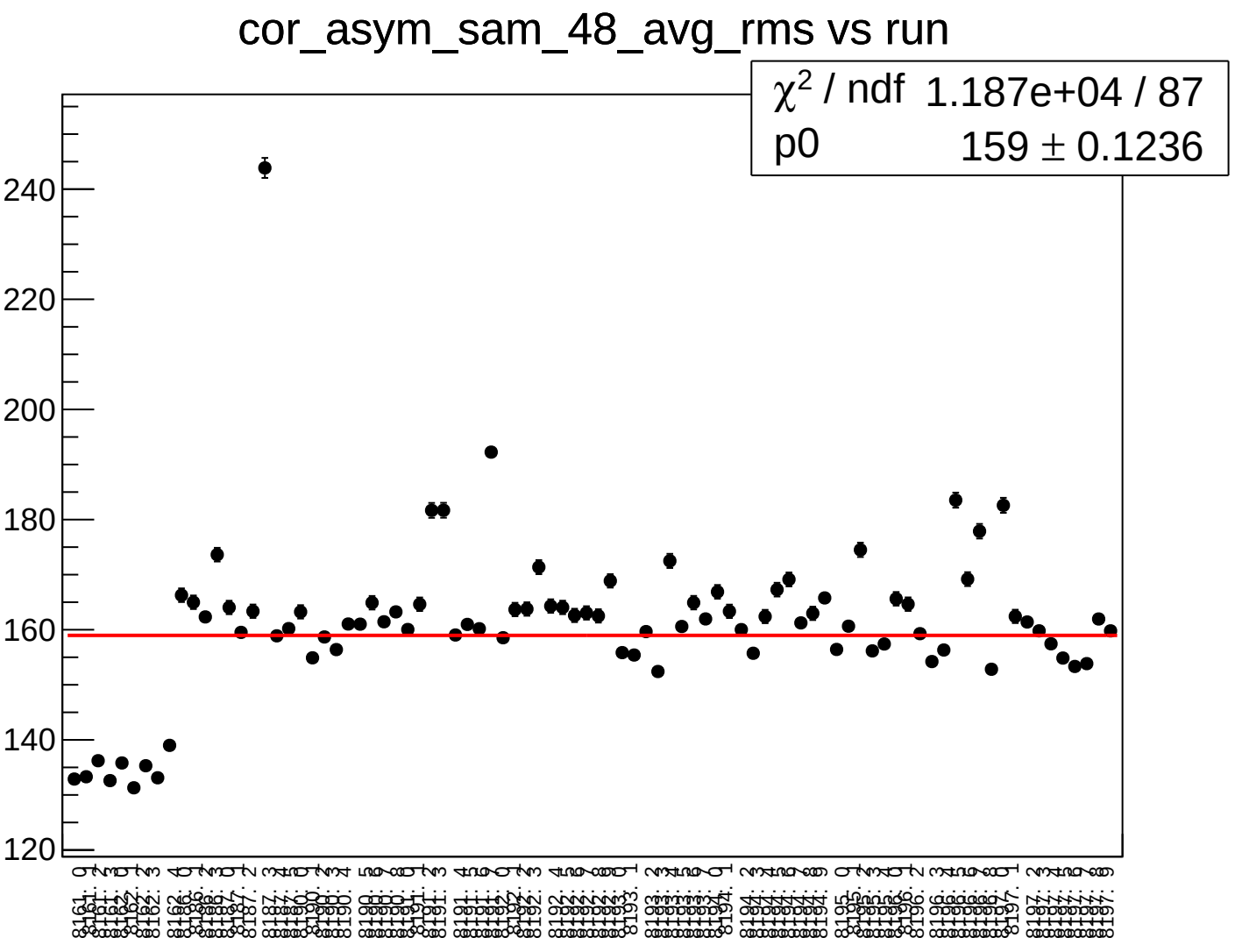

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.187e+04 / 87
p0 159 ± 0.1236
240
220
200
180
160
140
120

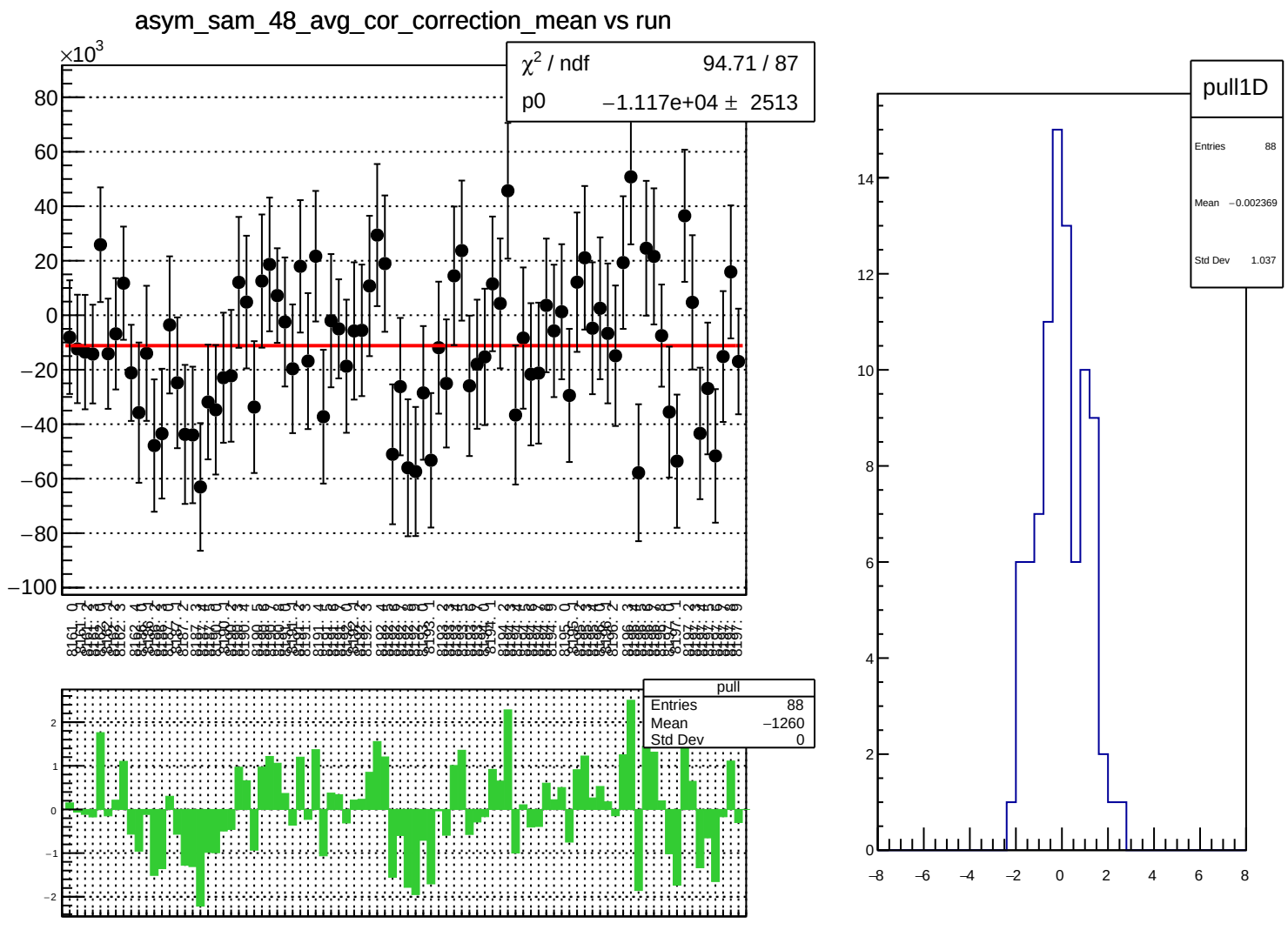

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.71 / 87
p0 −1.117e+04 ± 2513
pull
Entries 88
Mean −1260
Std Dev 0
pull1D
Entries 88
Mean −0.002368
Std Dev 1.037

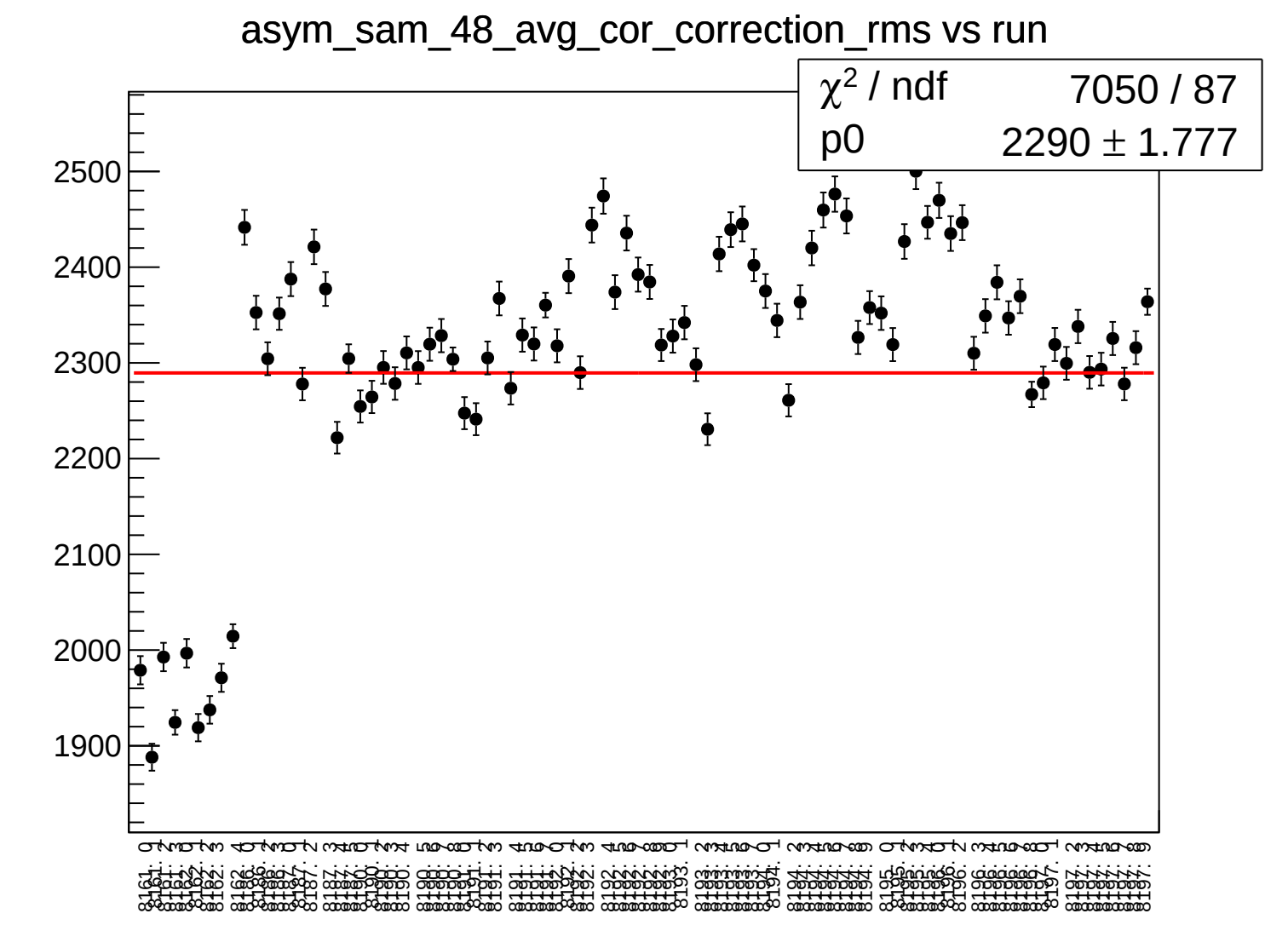

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 7051 / 87
p0 2290 ± 1.777
2500
2400
2300
2200
2100
2000
1900

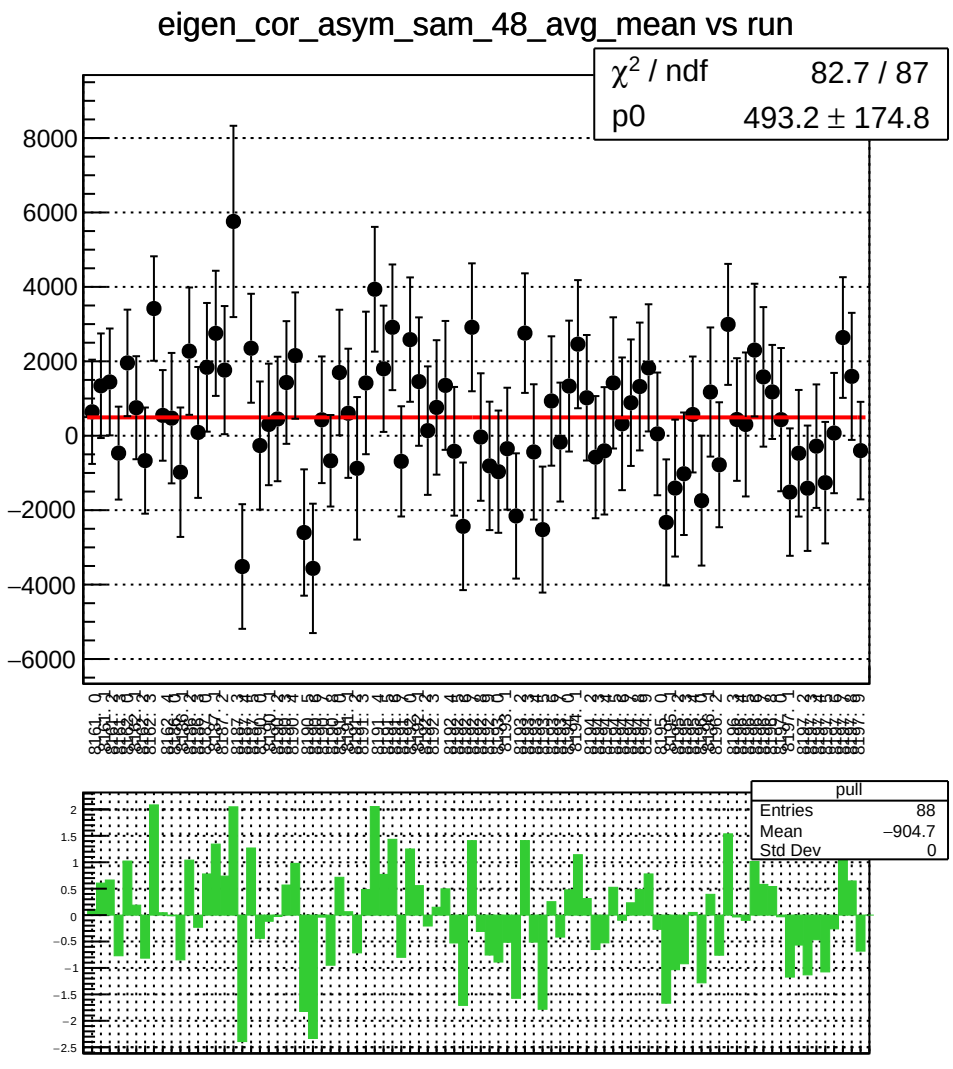

cor_asym_sam_48_avg_mean vs run
χ² / ndf 82.7 / 87
p0 493.2 ± 174.8
pull
Entries 88
Mean −904.7
Std Dev 0

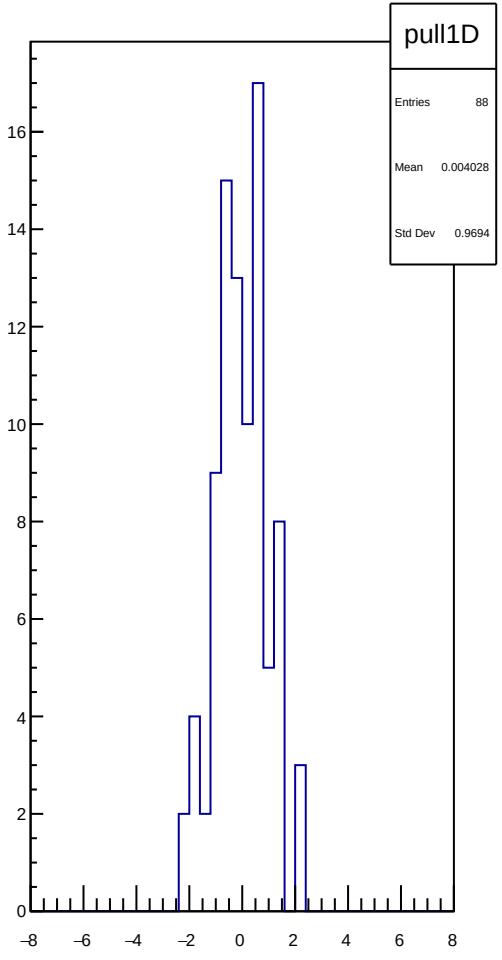

pull1D
Entries 88
Mean 0.004028
Std Dev 0.9694

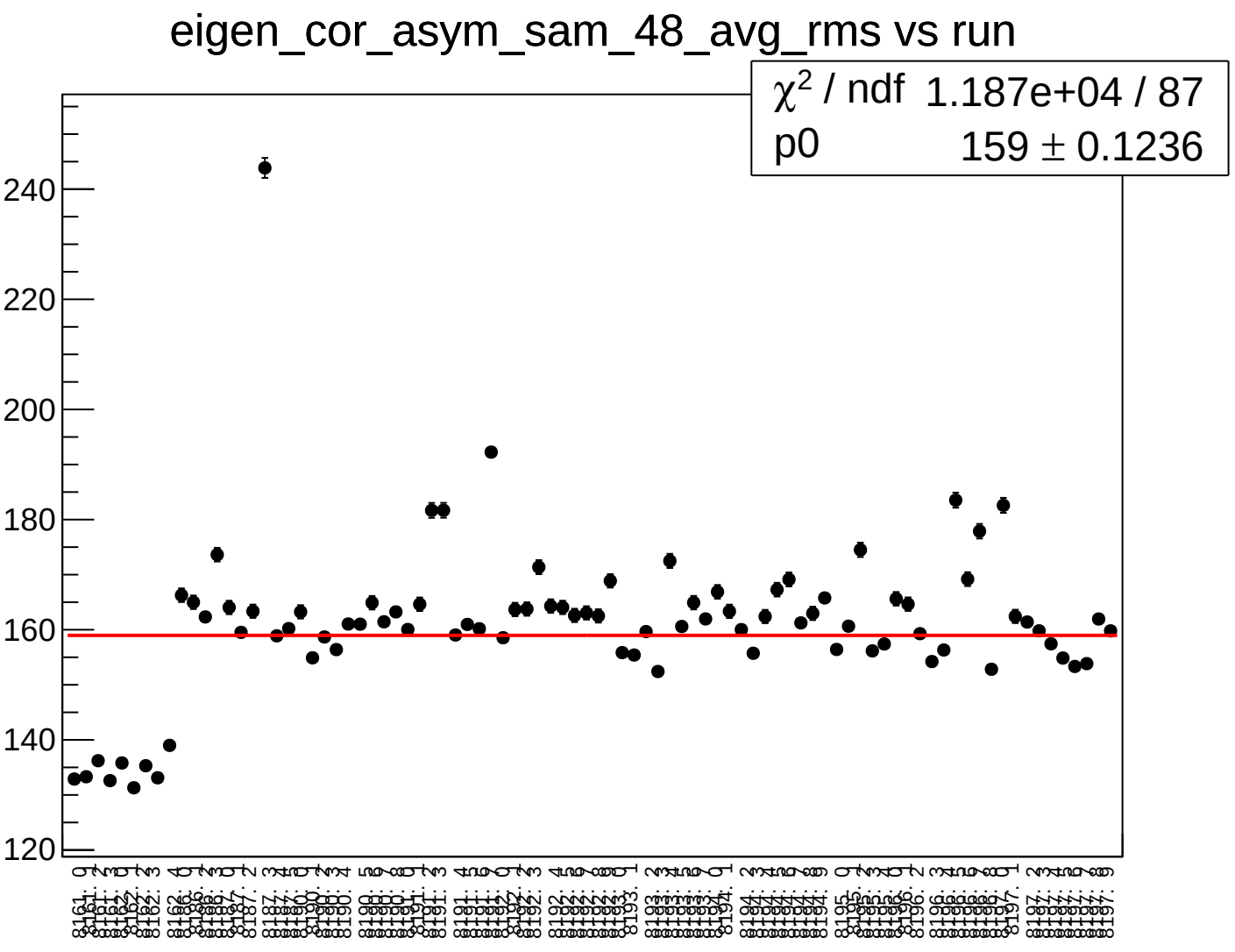

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.187e+04 / 87
p0 159 ± 0.1236
240
220
200
180
160
140
120

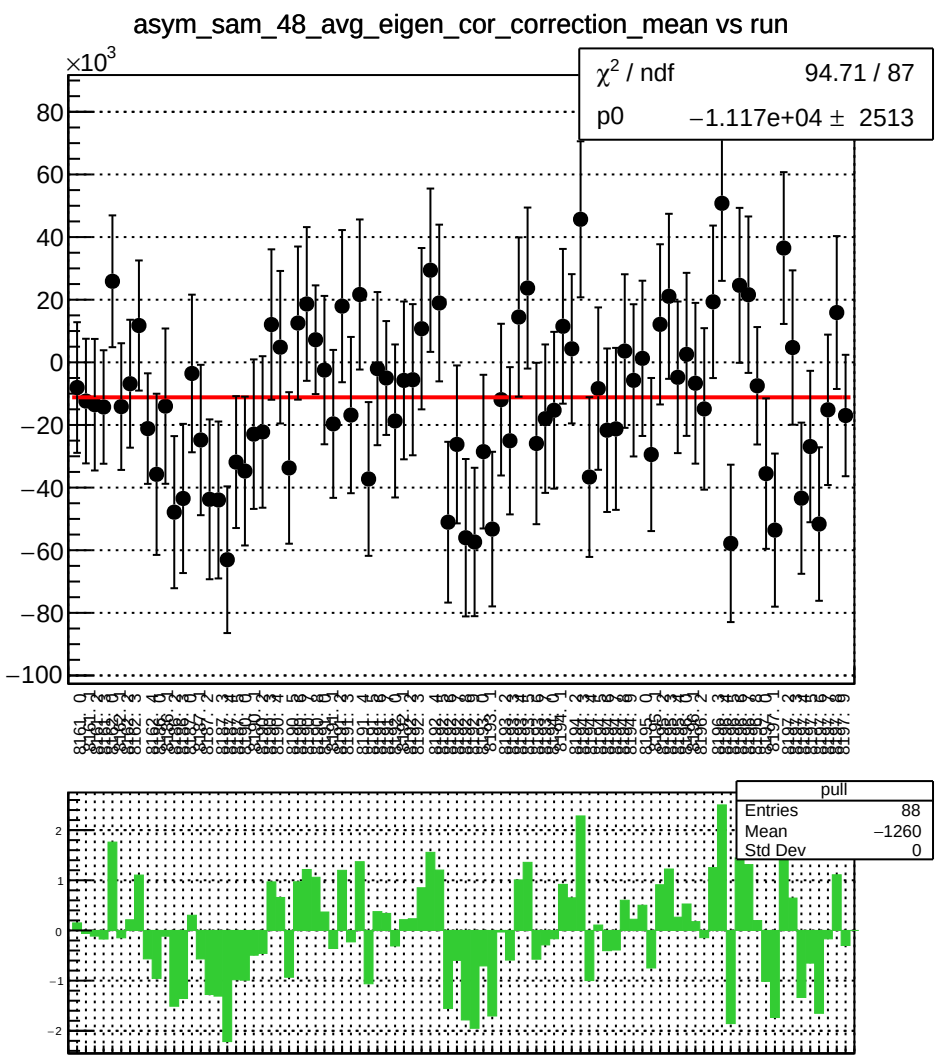

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.71 / 87
p0 −1.117e+04 ± 2513
pull
Entries 88
Mean −1260
Std Dev 0
pull1D
Entries 88
Mean −0.002369
Std Dev 1.037

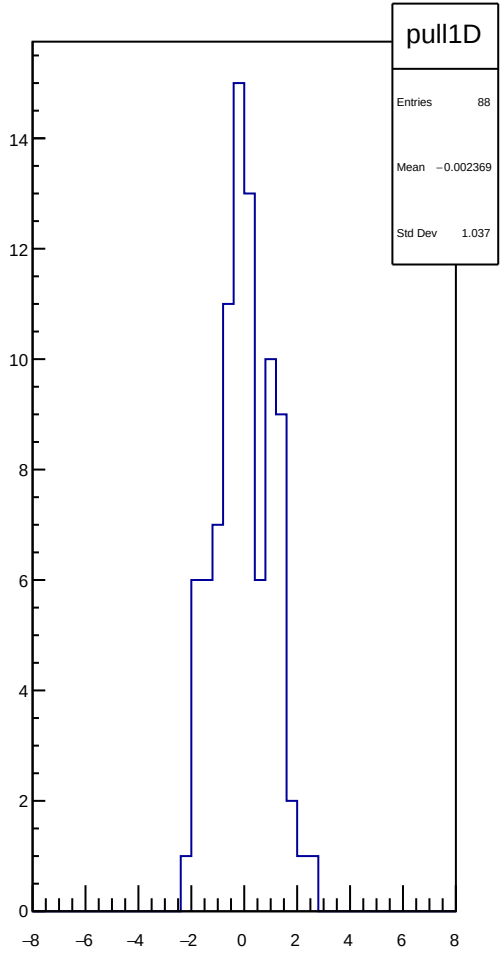

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 7050 / 87
p0 2290 ± 1.777
2500
2400
2300
2200
2100
2000
1900

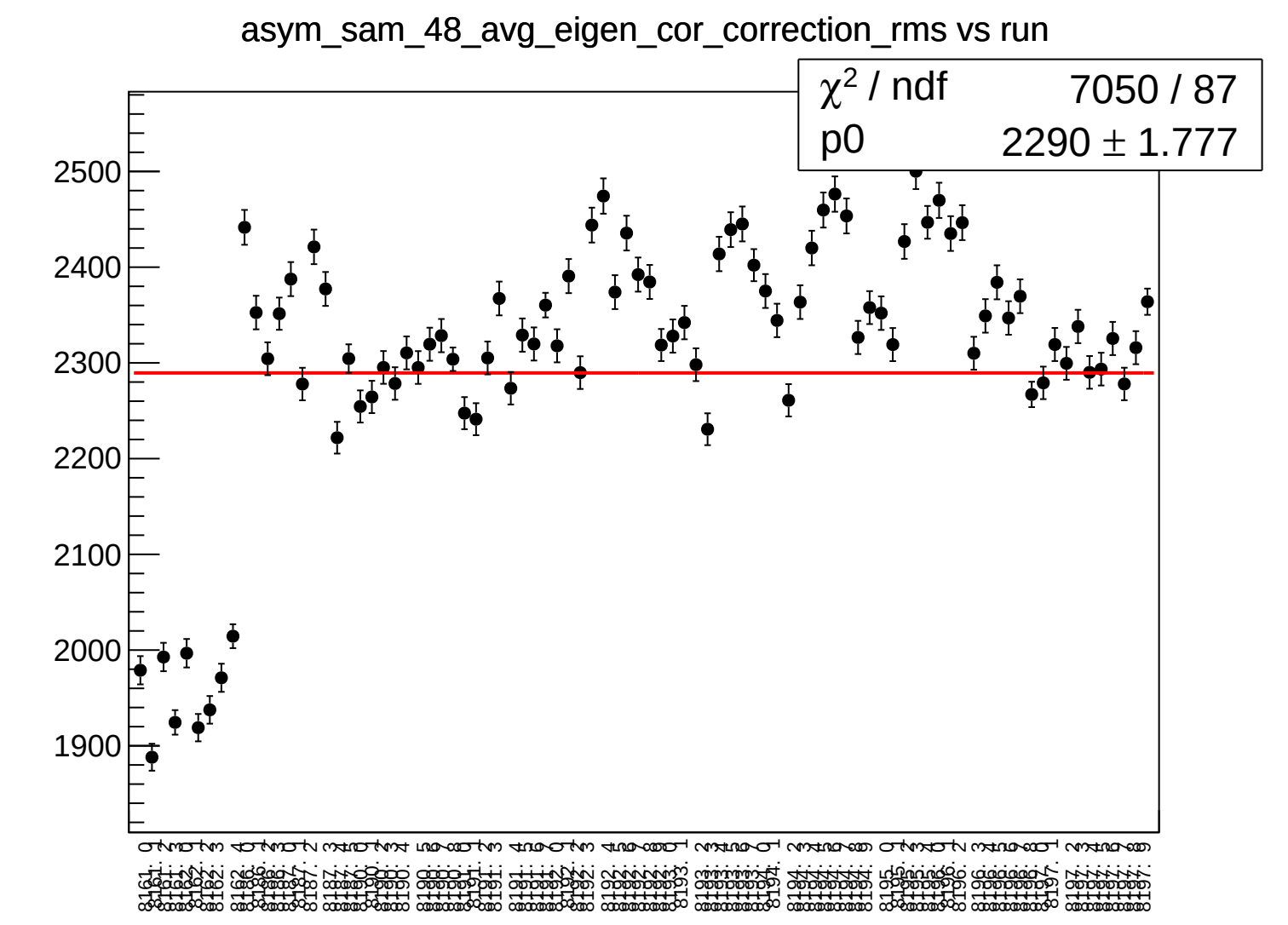

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 82.7 / 87
p0 493.2 ± 174.8
pull
Entries 88
Mean −904.7
Std Dev 0

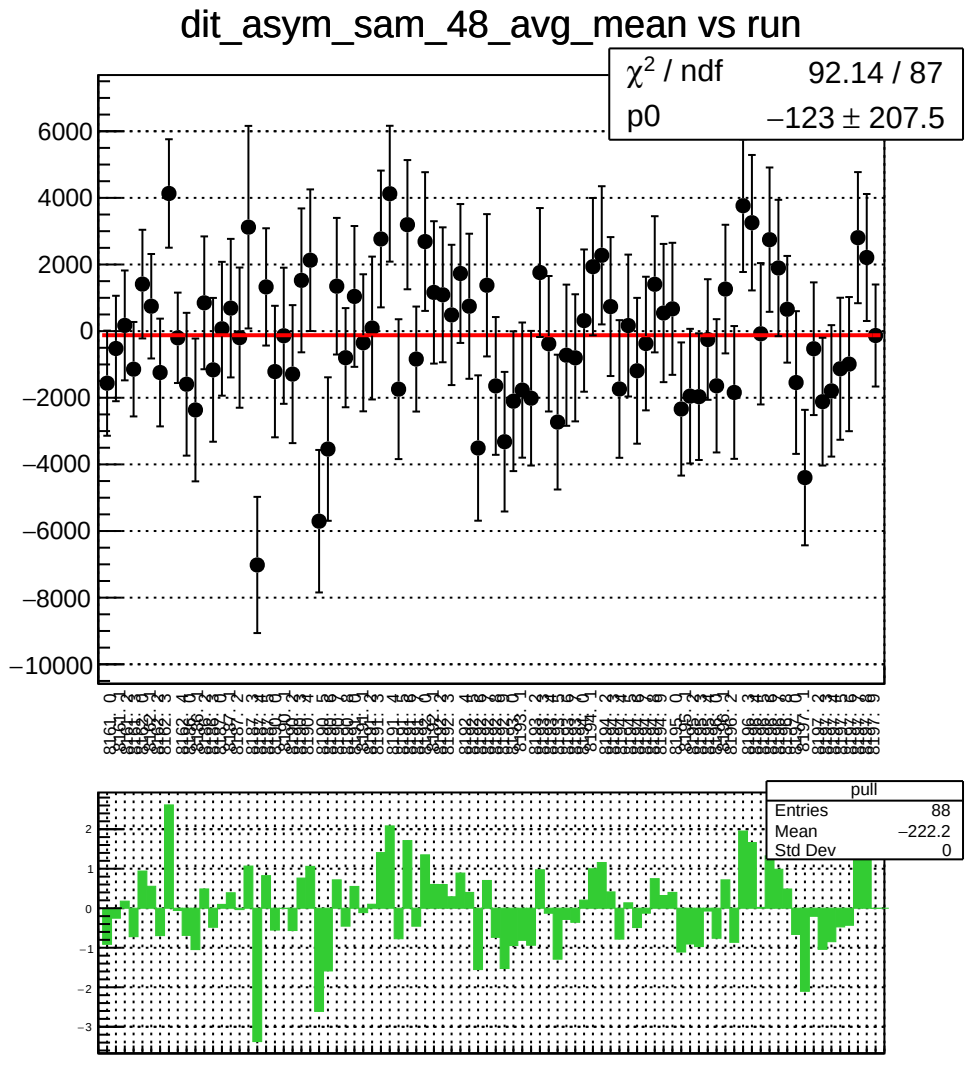

pull1D
Entries 88
Mean 0.004028
Std Dev 0.9694

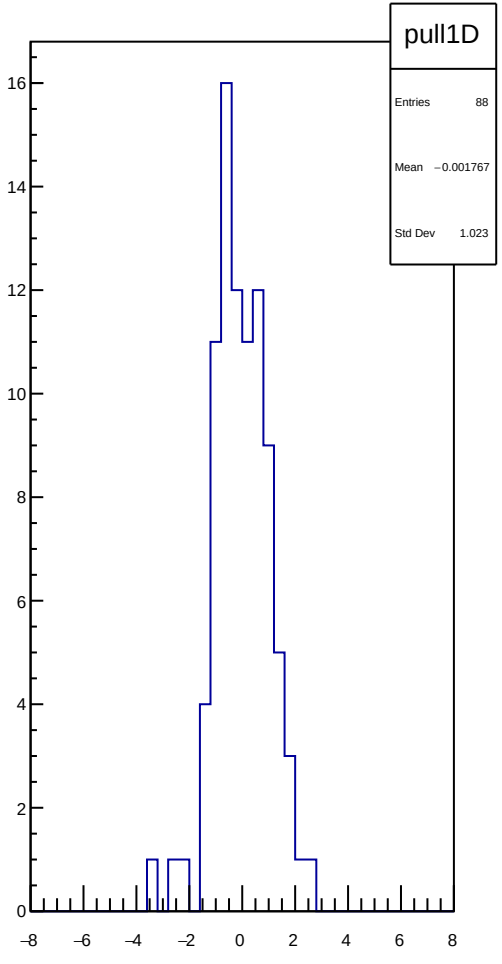

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.187e+04 / 87
p0 159 ± 0.1236
240
220
200
180
160
140
120

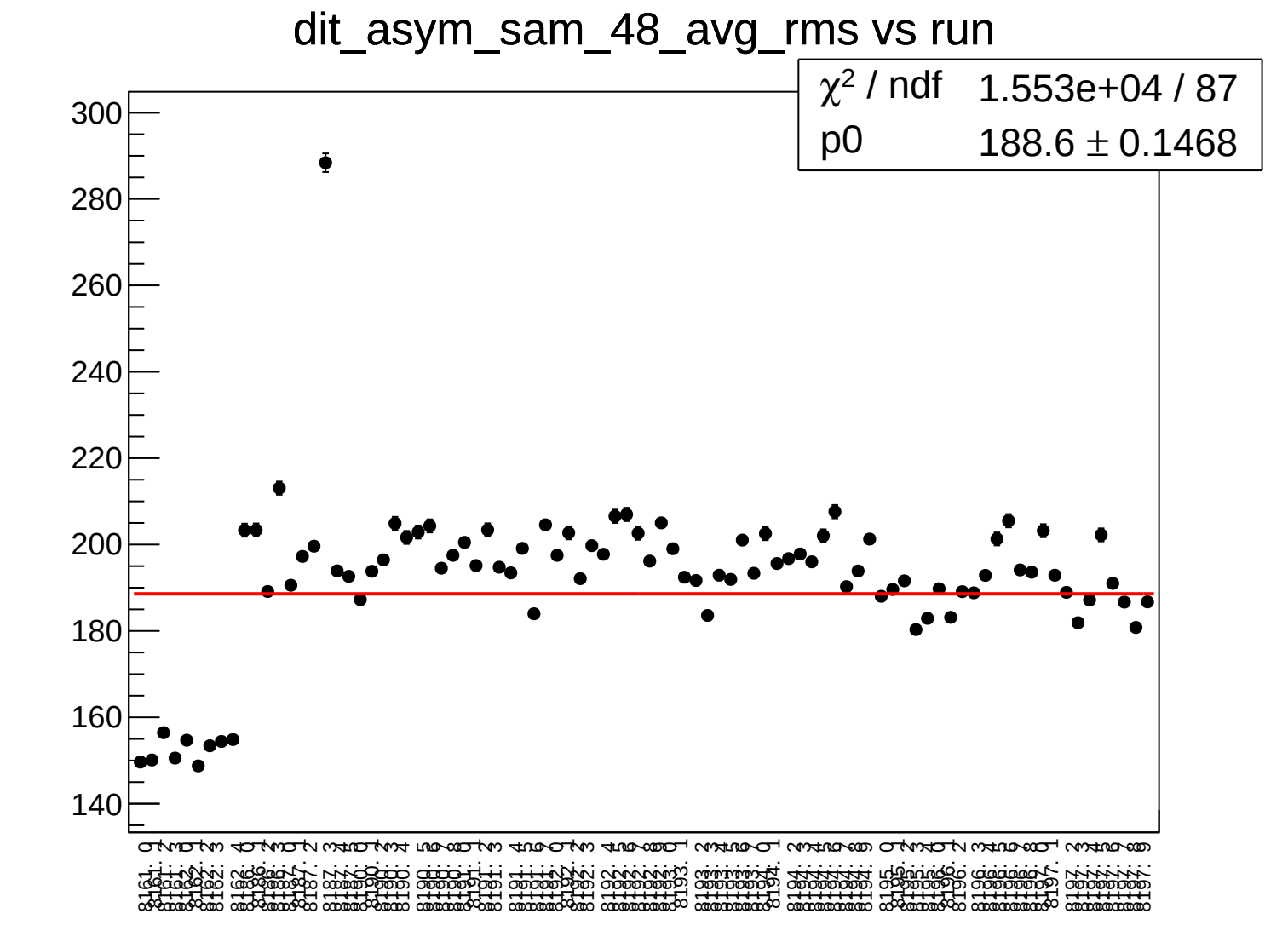

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.71 / 87
p0 −1.117e+04 ± 2513
pull
Entries 88
Mean −1260
Std Dev 0

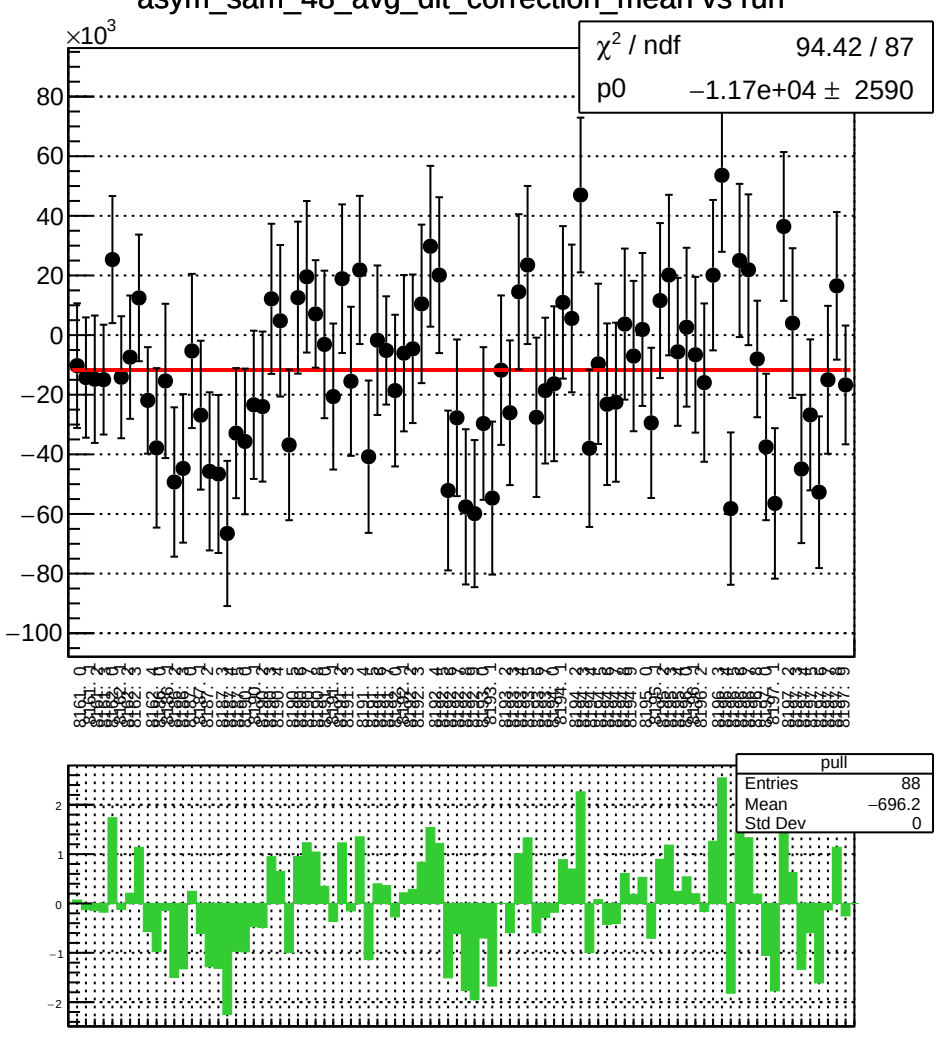

pull1D
Entries 88
Mean −0.002369
Std Dev 1.037

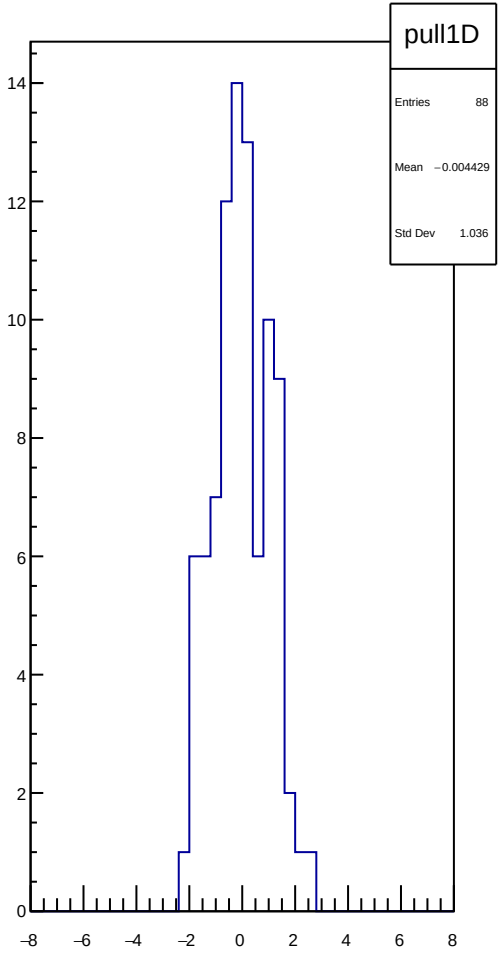

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 7050 / 87
p0 2290 ± 1.777
2500
2400
2300
2200
2100
2000
1900

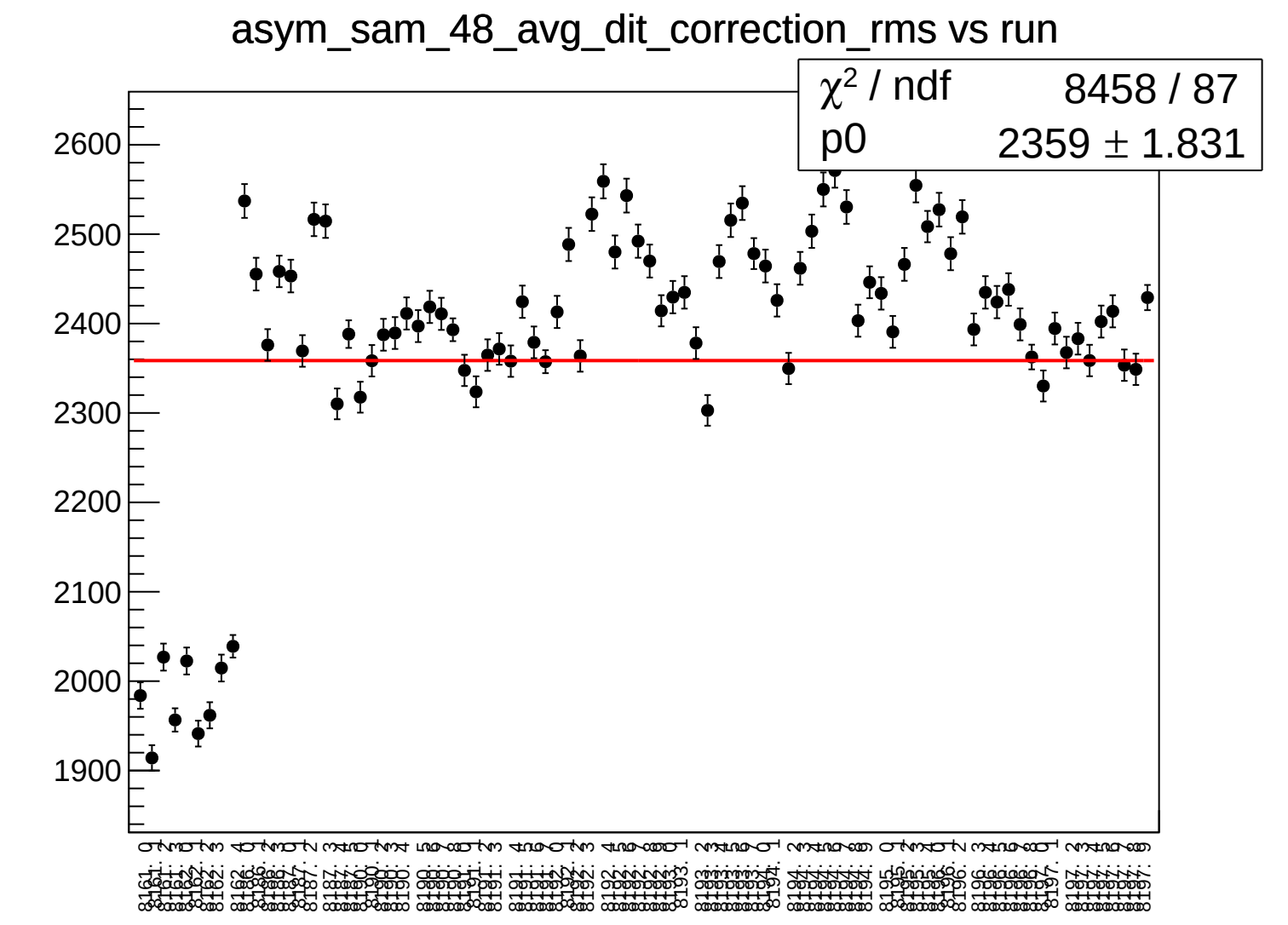

dit_asym_sam_48_avg_mean vs run
χ² / ndf 92.14 / 87
p0 −123 ± 207.5
pull
Entries 88
Mean −222.2
Std Dev 0

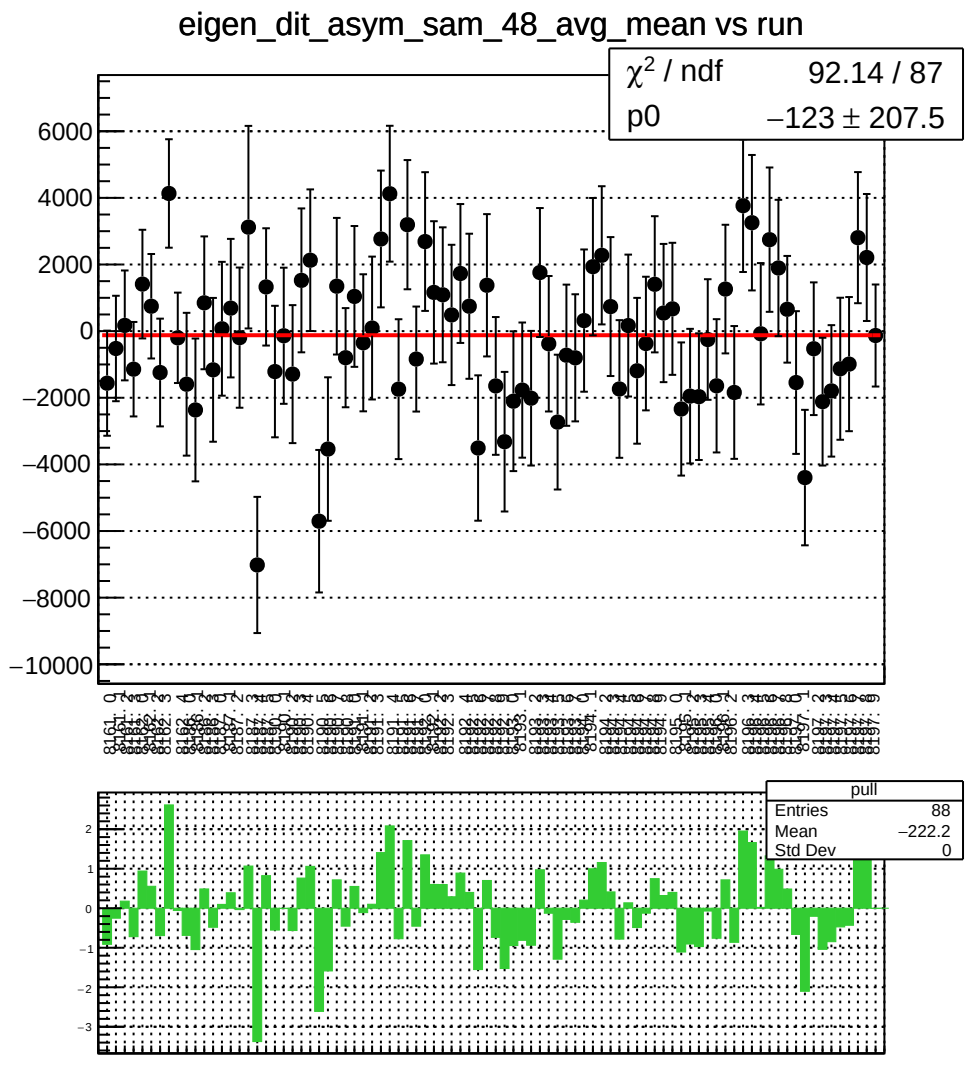

pull1D
Entries 88
Mean −0.001767
Std Dev 1.023

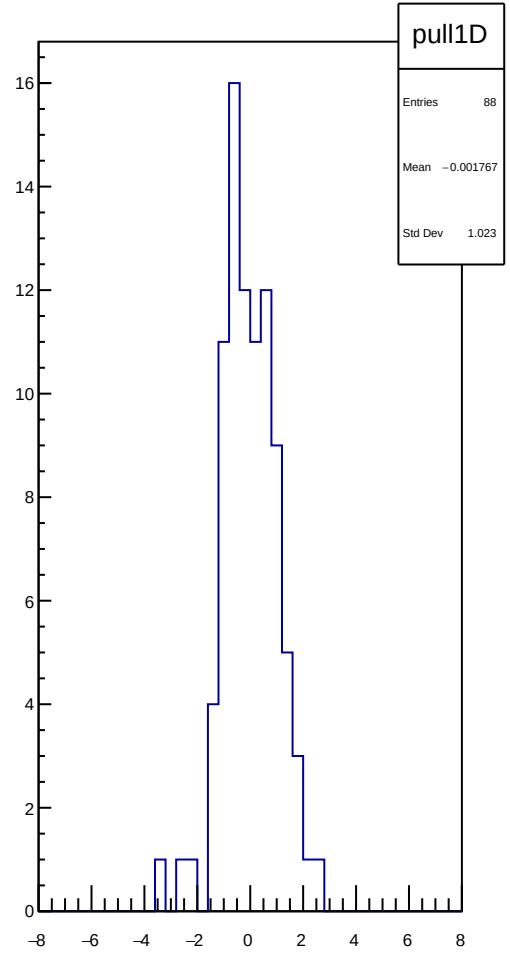

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.553e+04 / 87
p0 188.6 ± 0.1468
300
280
260
240
220
200
180
160
140

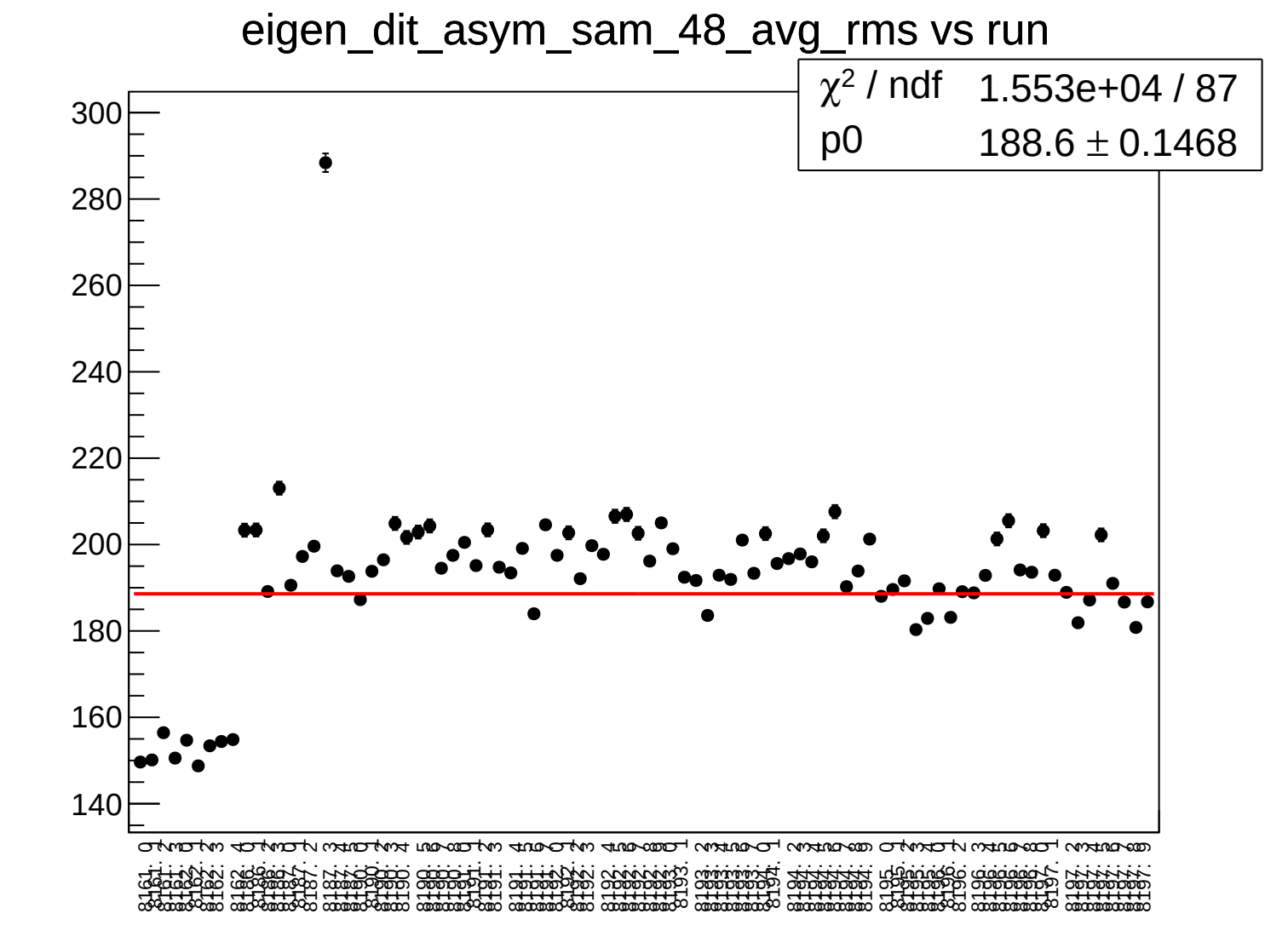

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.42 / 87
p0 −1.17e+04 ± 2590
pull
Entries 88
Mean −696.2
Std Dev 0

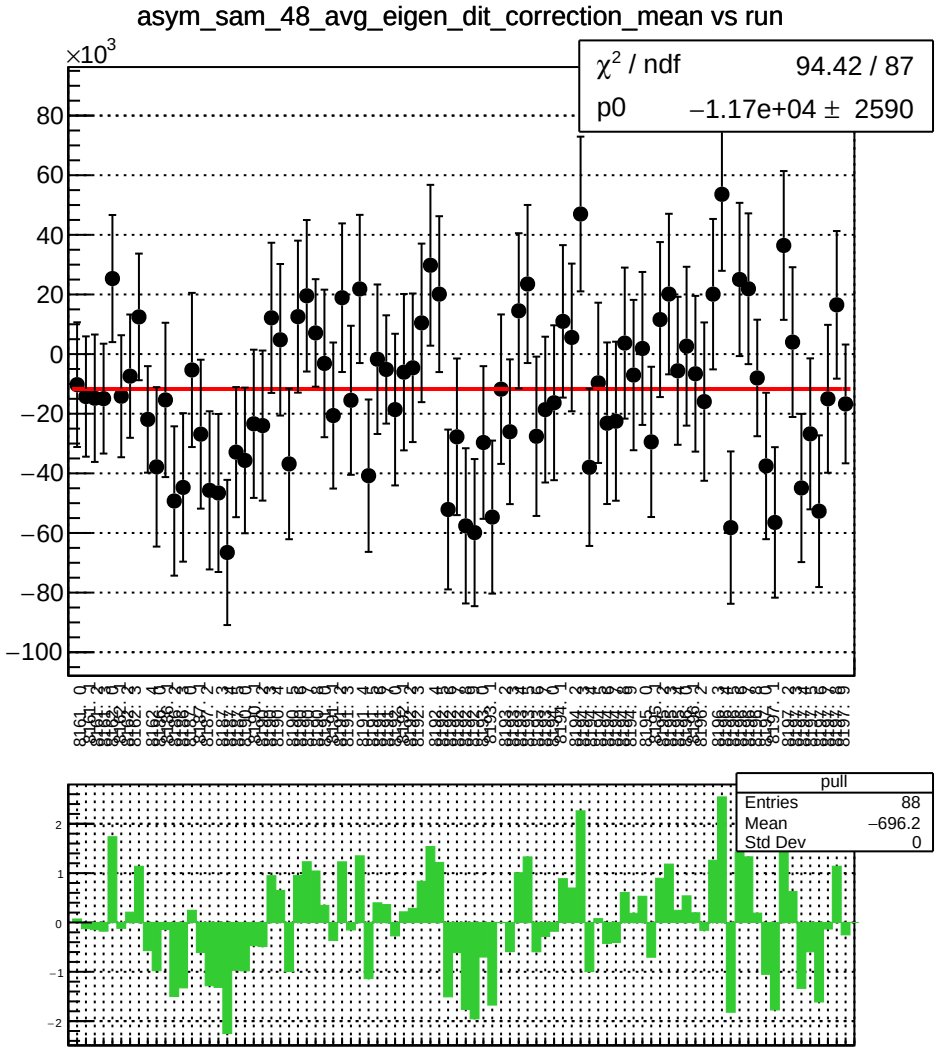

pull1D
Entries 88
Mean −0.004429
Std Dev 1.036

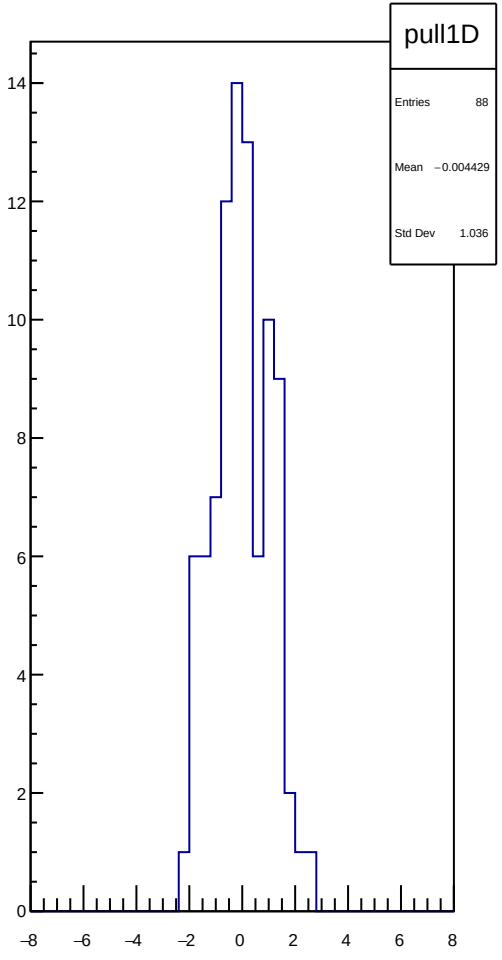

asym_sam_48_avg_dit_correction_rms vs run
χ^2 / ndf 8458 / 87
p0 2359 ± 1.831
2600
2500
2400
2300
2200
2100
2000
1900

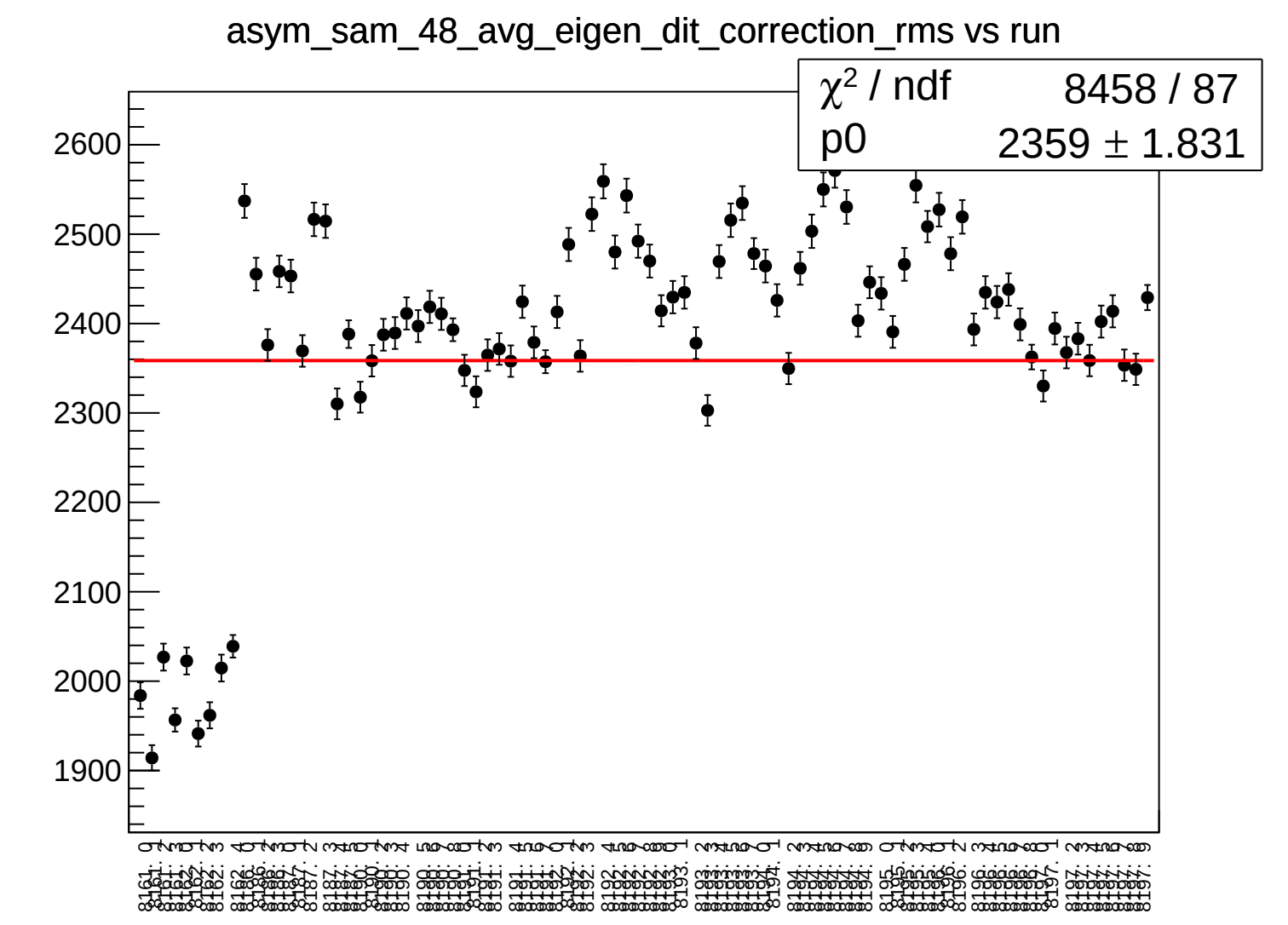

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 92.14 / 87
p0 −123 ± 207.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 88
Mean −222.2
Std Dev 0
2
1
0
−1
−2
−3

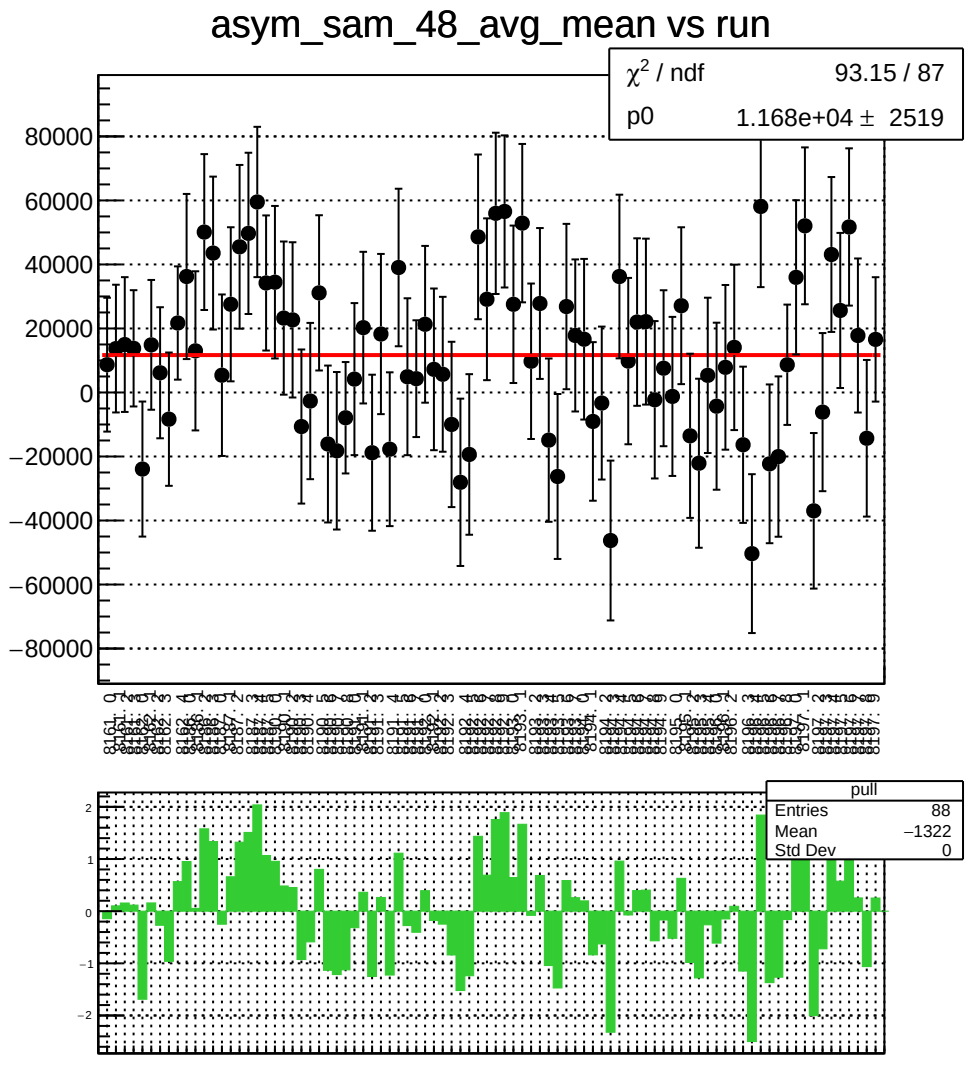

pull1D
Entries 88
Mean −0.001767
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

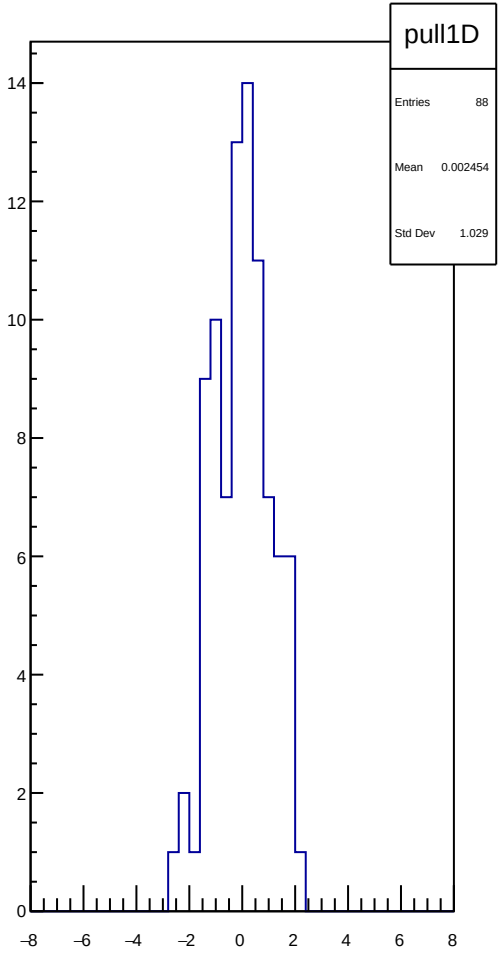

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.553e+04 / 87
p0 188.6 ± 0.1468
300
280
260
240
220
200
180
160
140

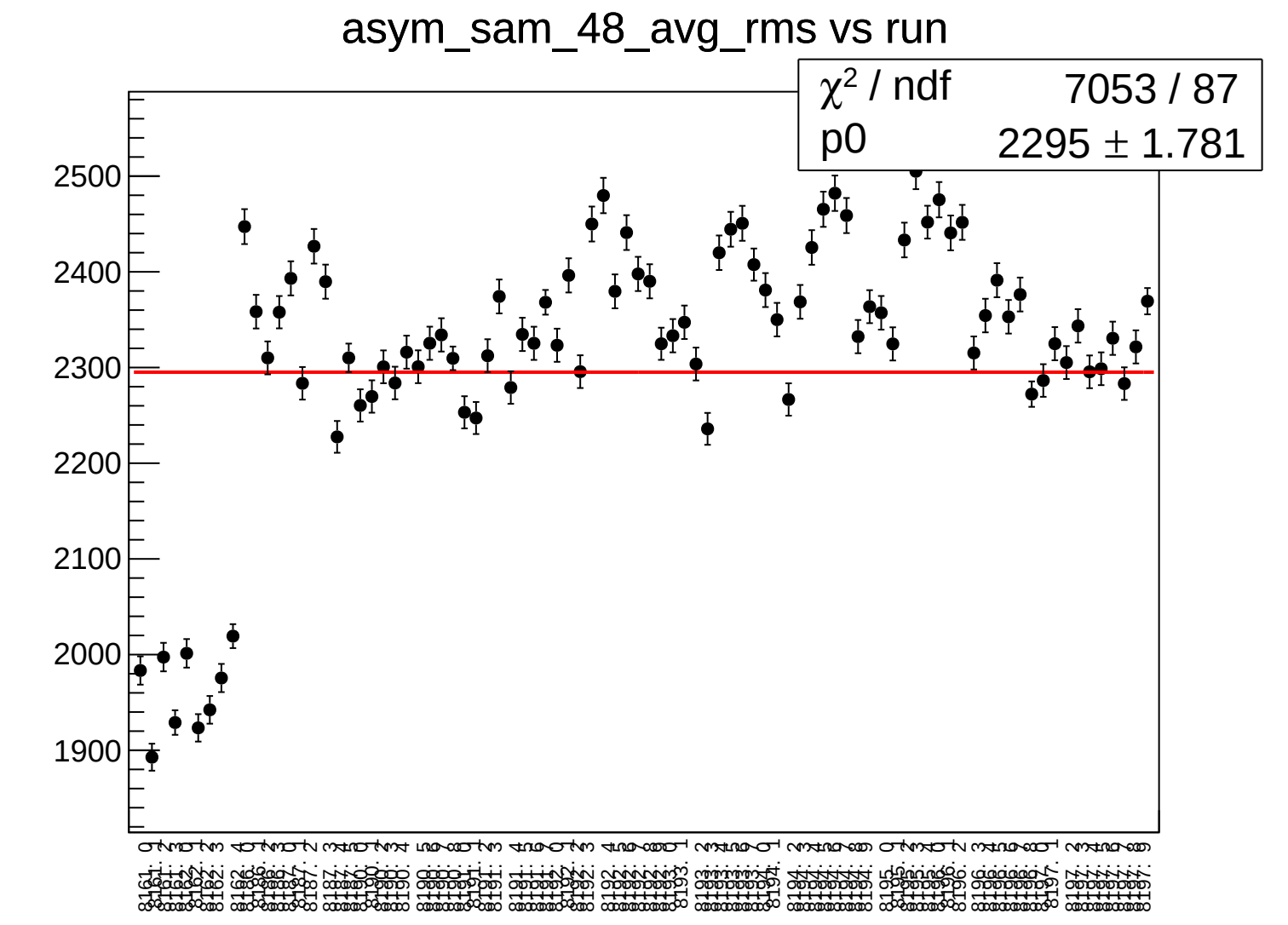

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.42 / 87
p0 −1.17e+04 ± 2590
pull
Entries 88
Mean −696.2
Std Dev 0

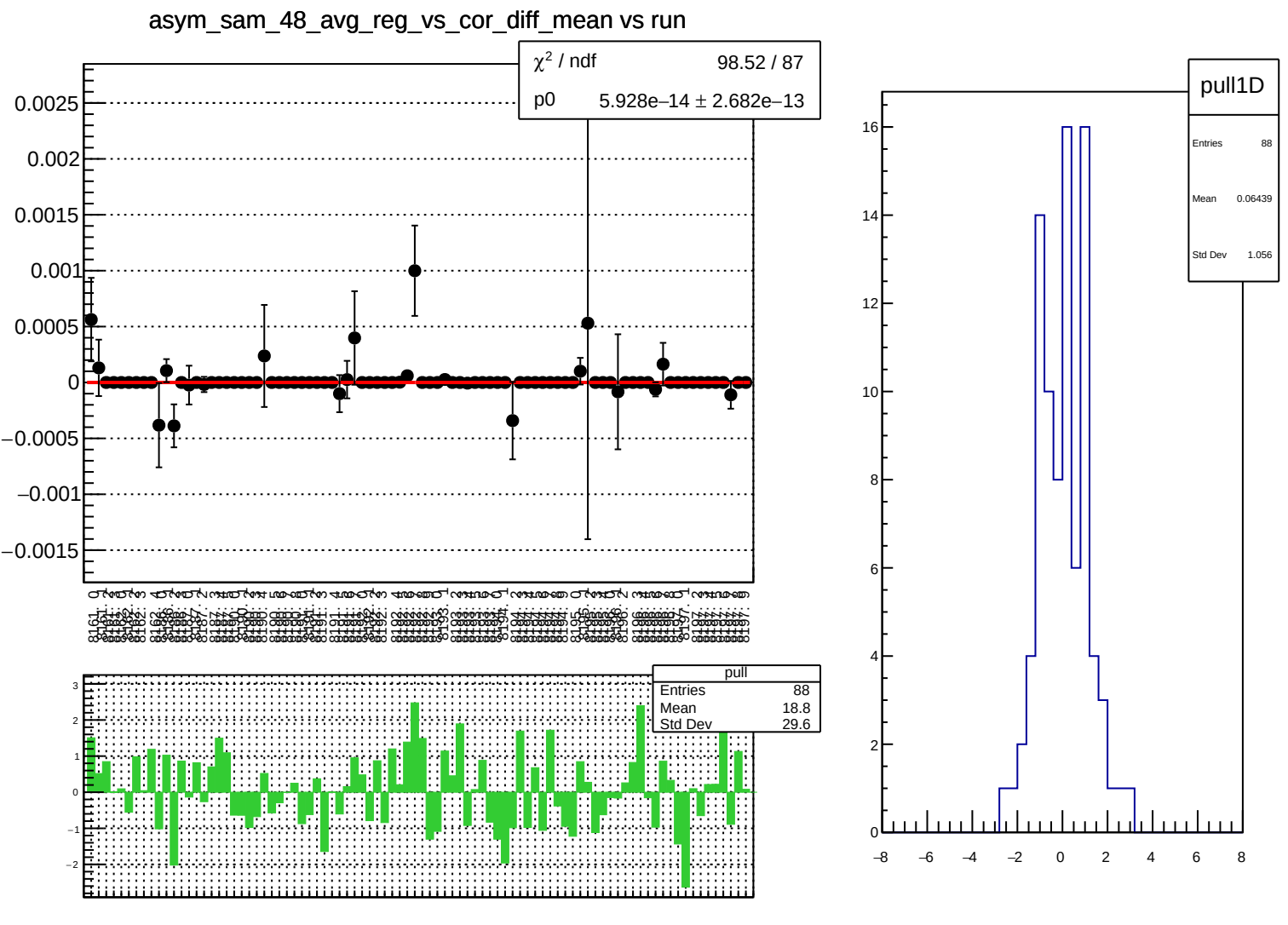

pull1D
Entries 88
Mean −0.004429
Std Dev 1.036

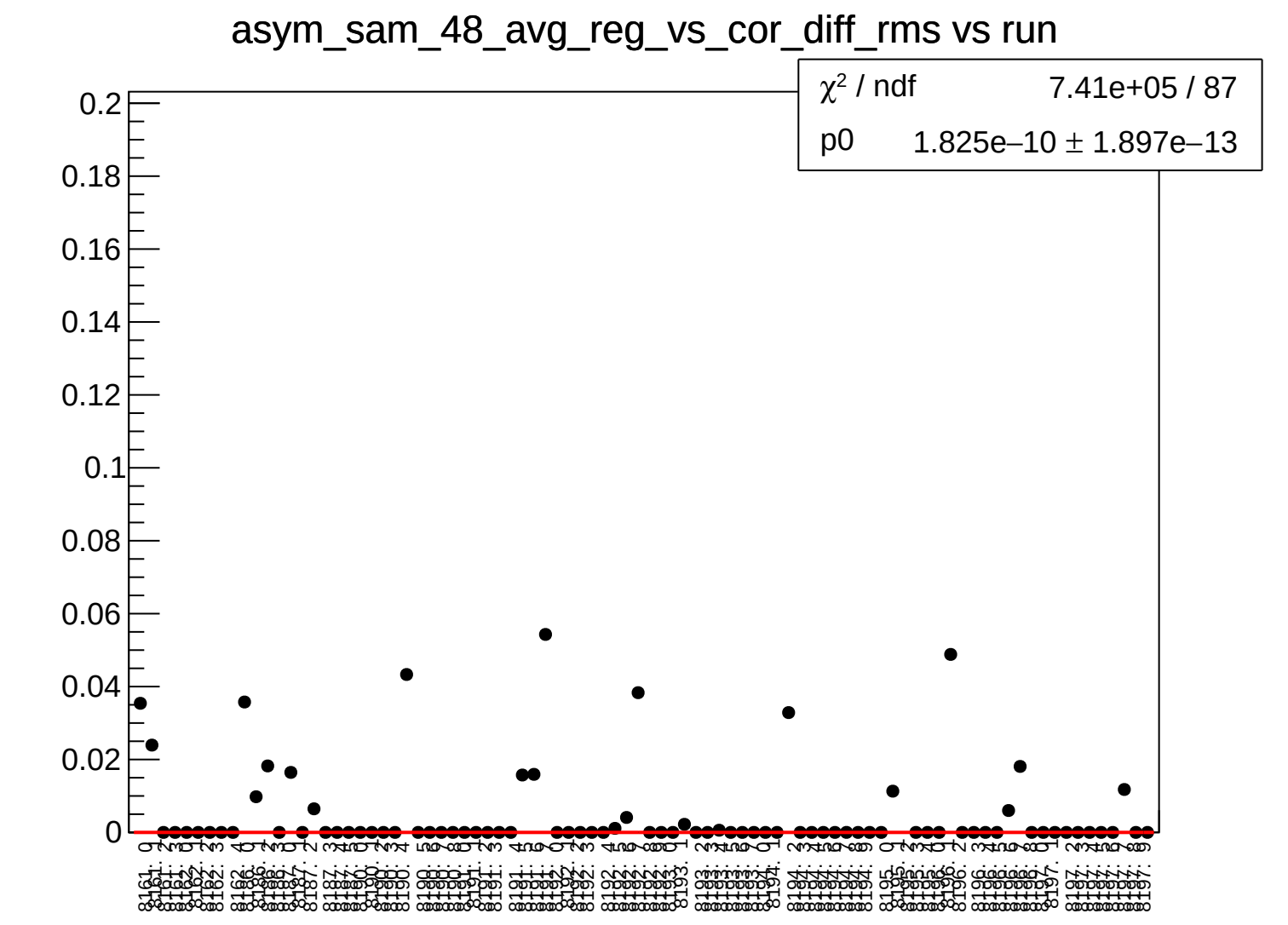

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 8458 / 87
p0 2359 ± 1.831
2600
2500
2400
2300
2200
2100
2000
1900

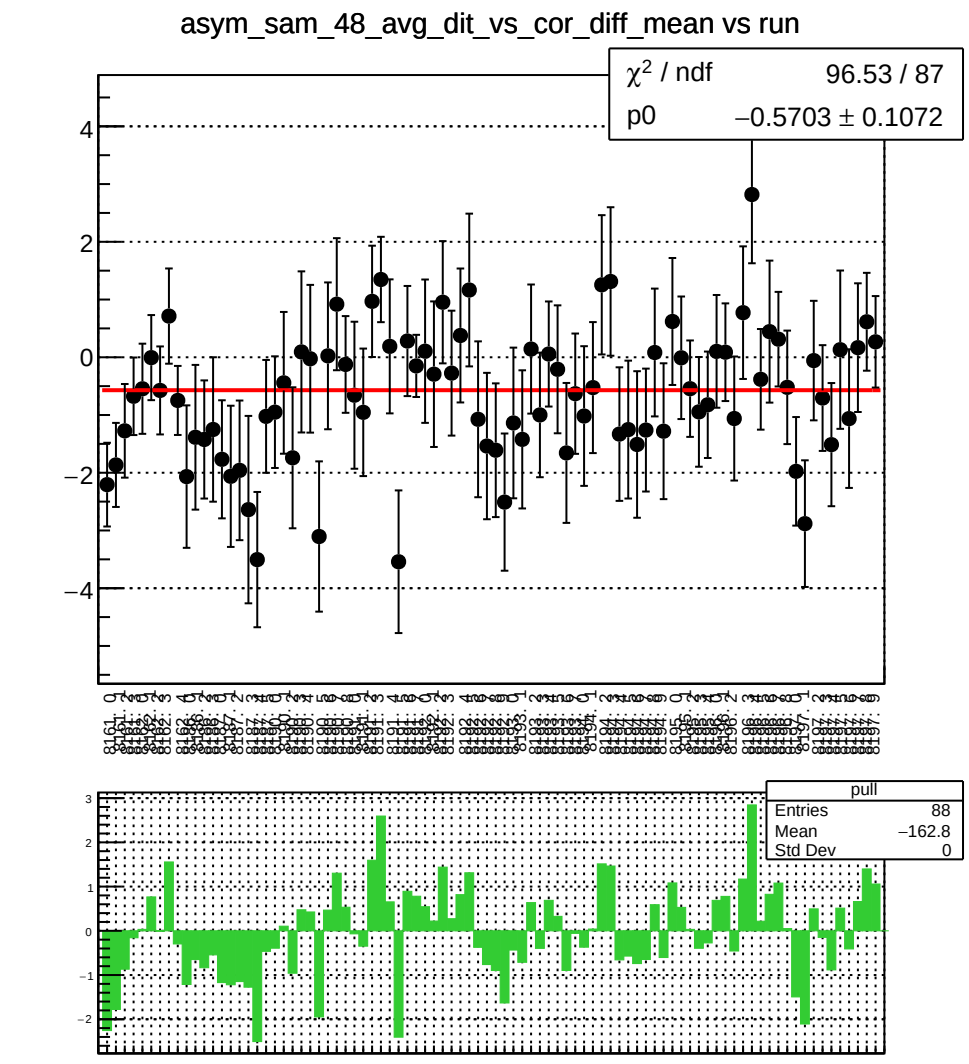

asym_sam_48_avg_mean vs run
χ² / ndf 93.15 / 87
p0 1.168e+04 ± 2519
pull
Entries 88
Mean −1322
Std Dev 0

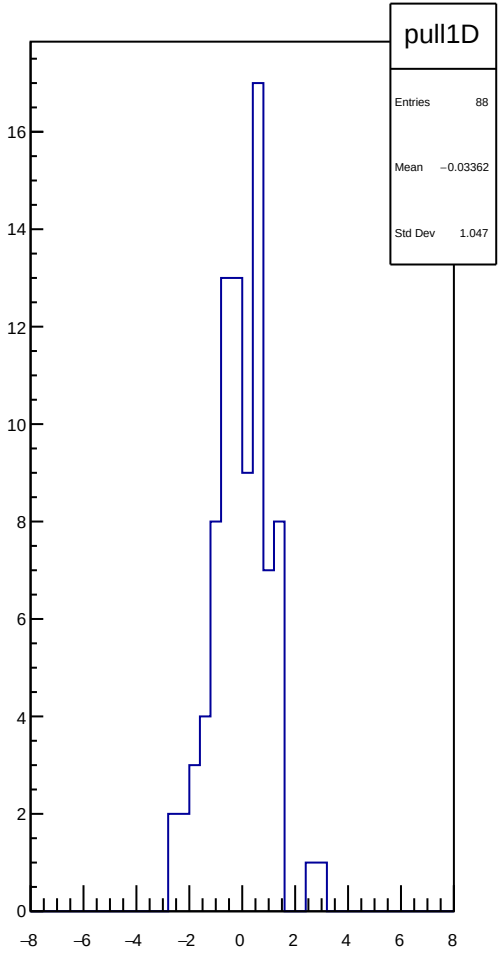

pull1D
Entries 88
Mean 0.002454
Std Dev 1.029

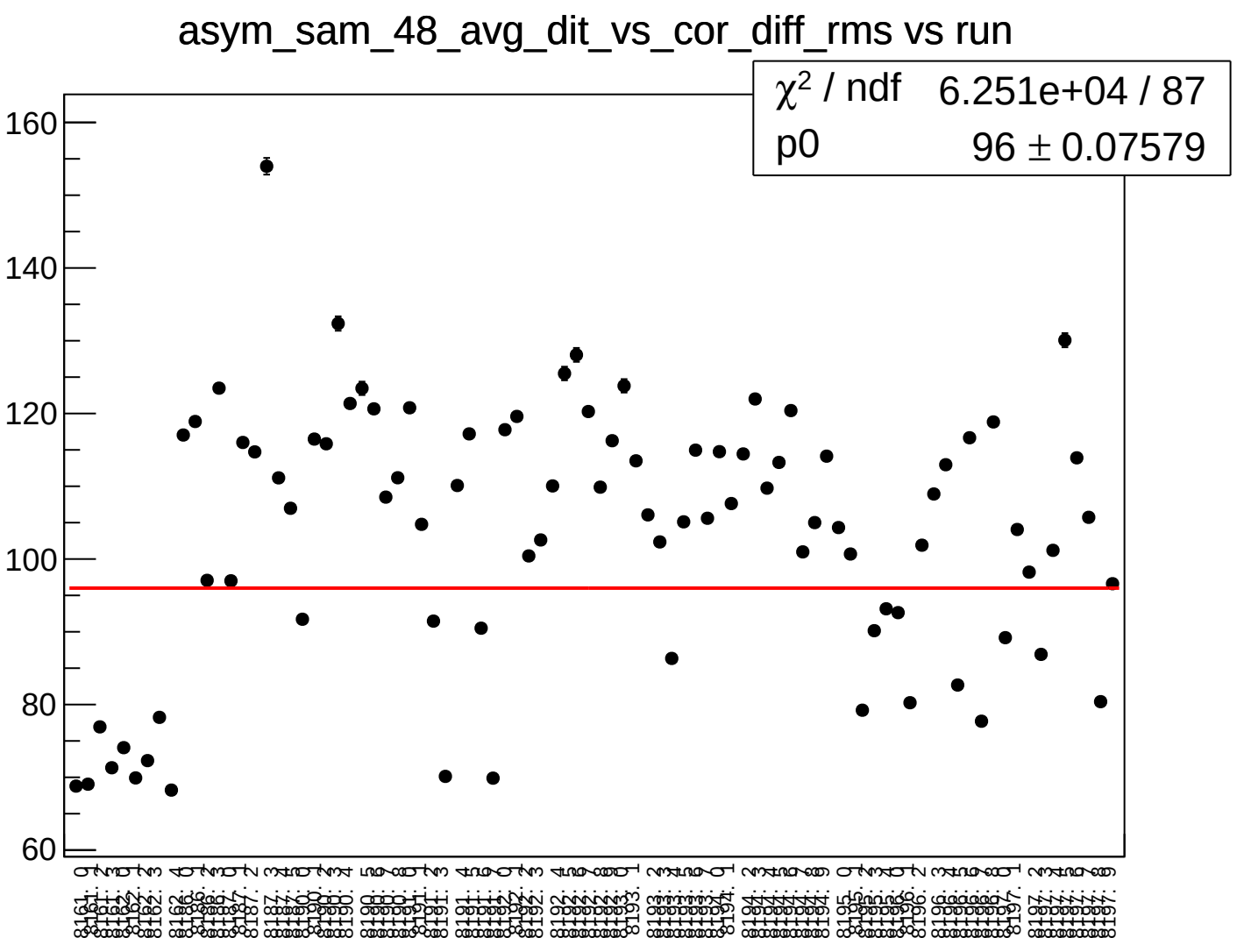

asym_sam_48_avg_rms vs run
χ² / ndf 7053 / 87
p0 2295 ± 1.781
2500
2400
2300
2200
2100
2000
1900

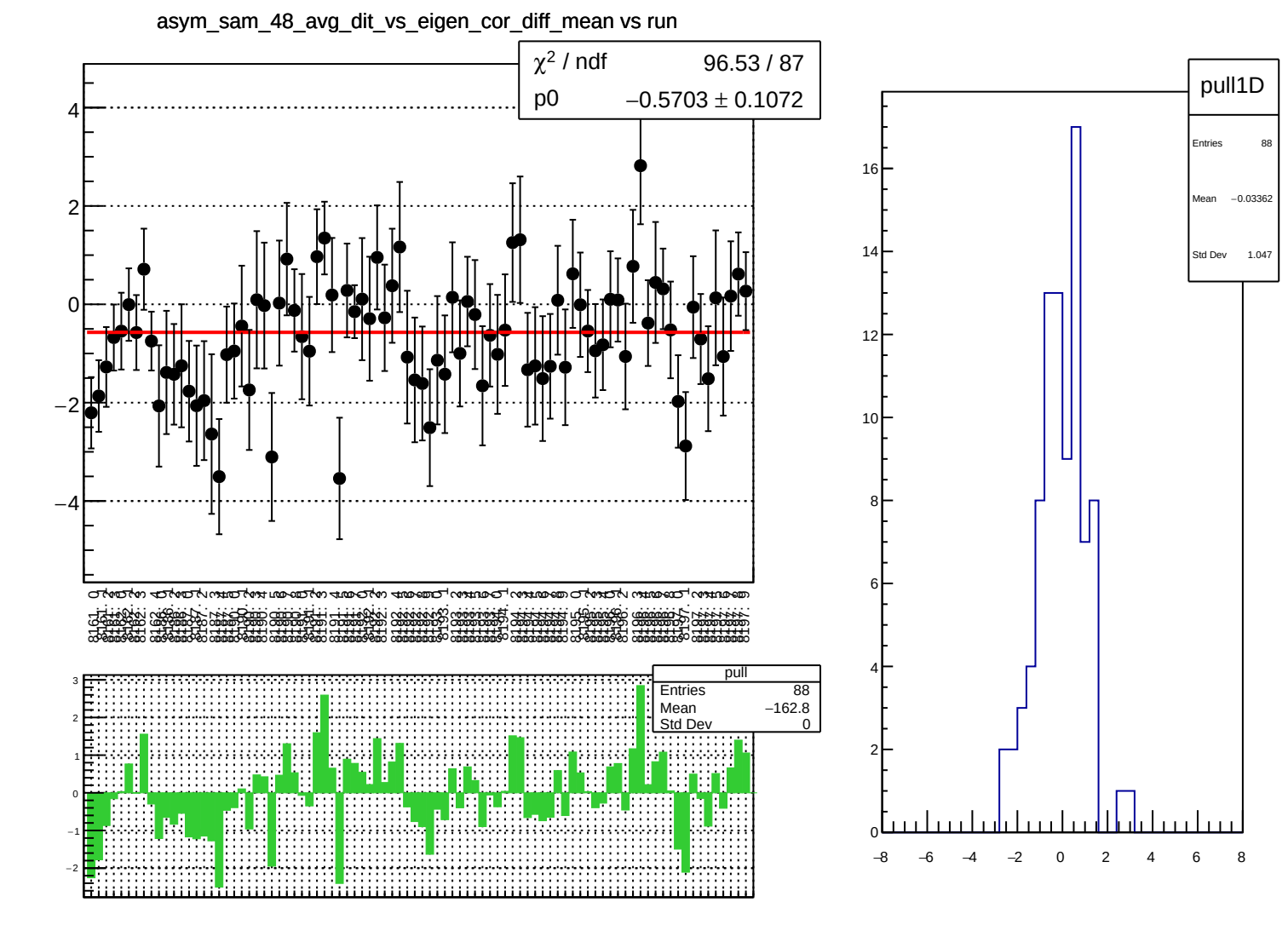

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.52 / 87
p0 5.928e−14 ± 2.682e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 18.8
Std Dev 29.6
pull1D
Entries 88
Mean 0.06439
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

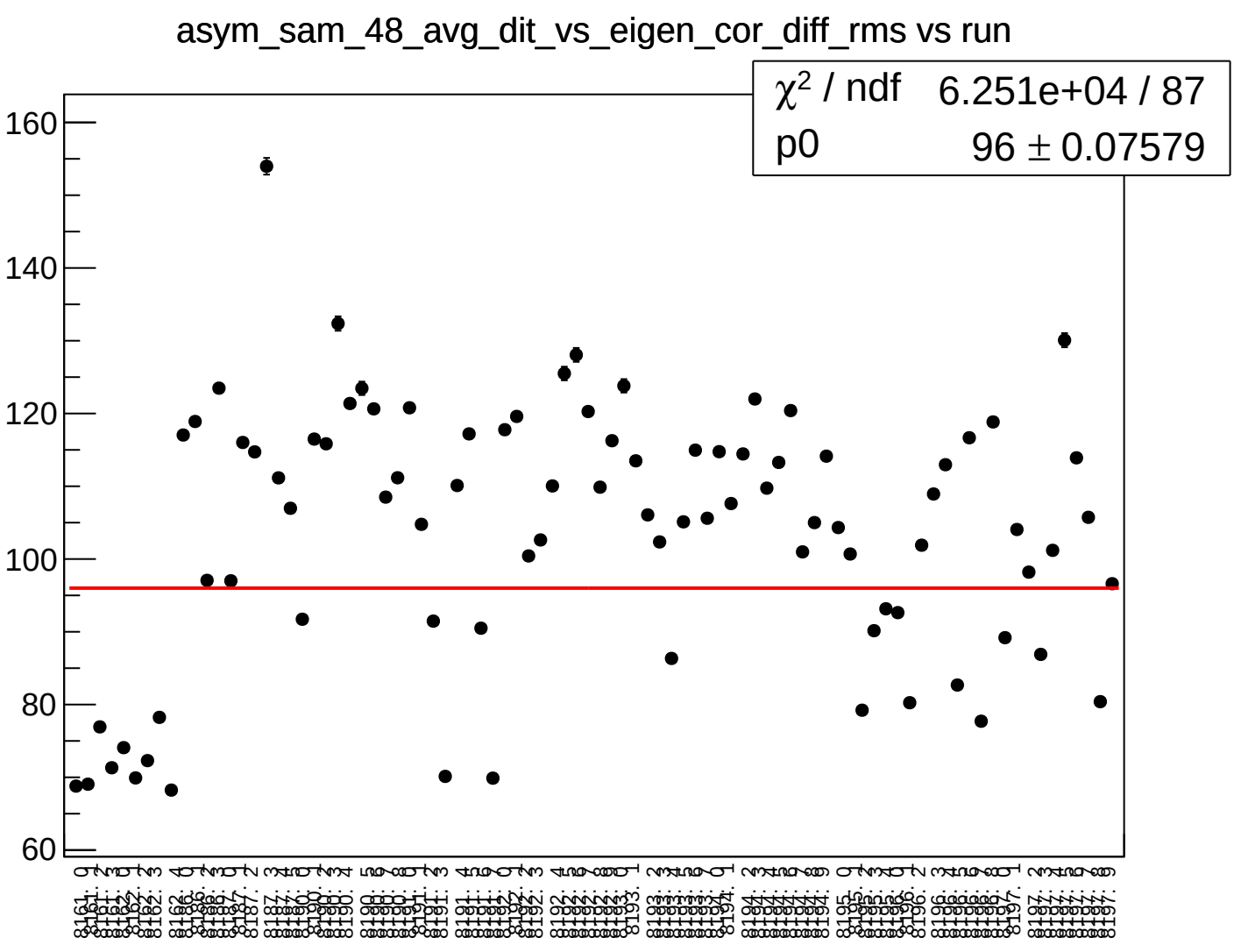

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.41e+05 / 87
p0 1.825e−10 ± 1.897e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

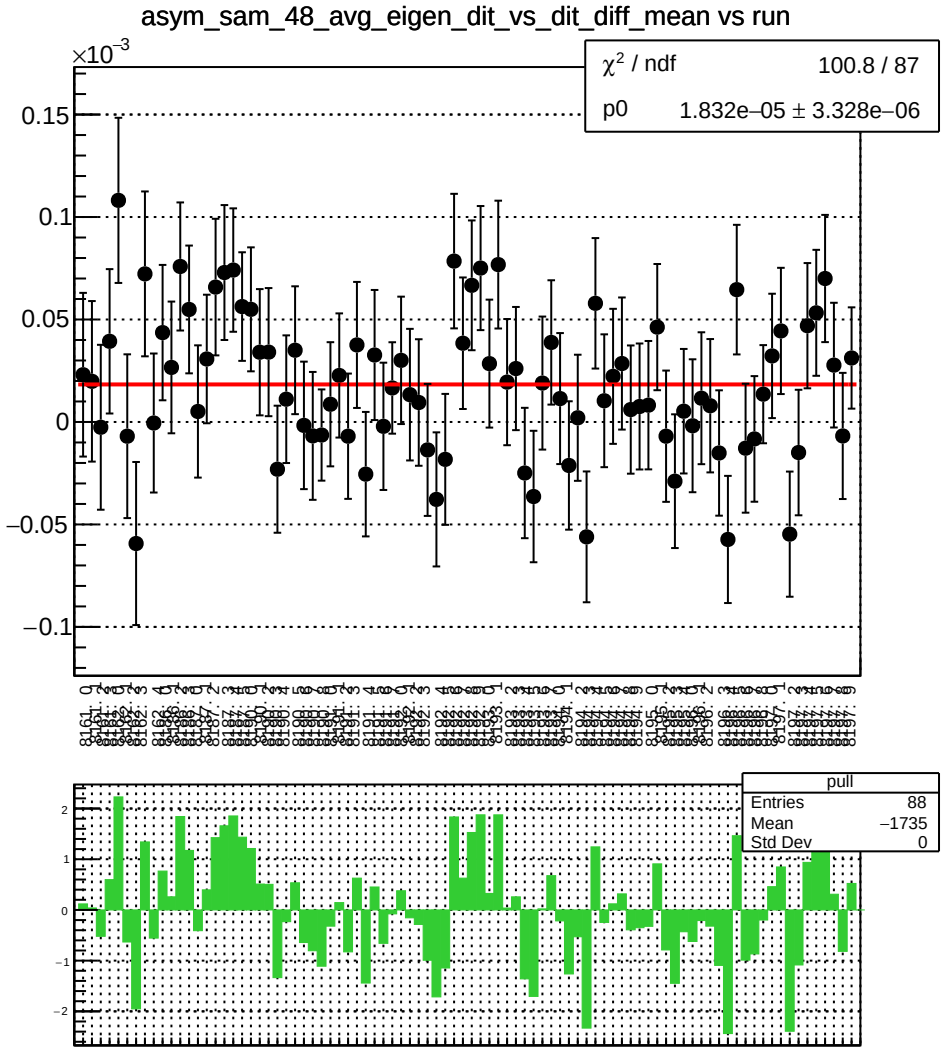

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.53 / 87
p0 −0.5703 ± 0.1072
pull
Entries 88
Mean −162.8
Std Dev 0

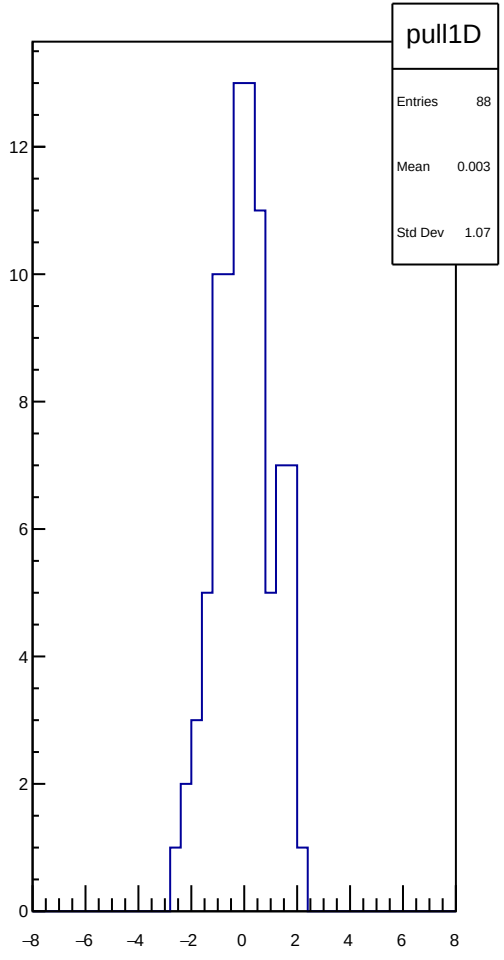

pull1D
Entries 88
Mean −0.03362
Std Dev 1.047

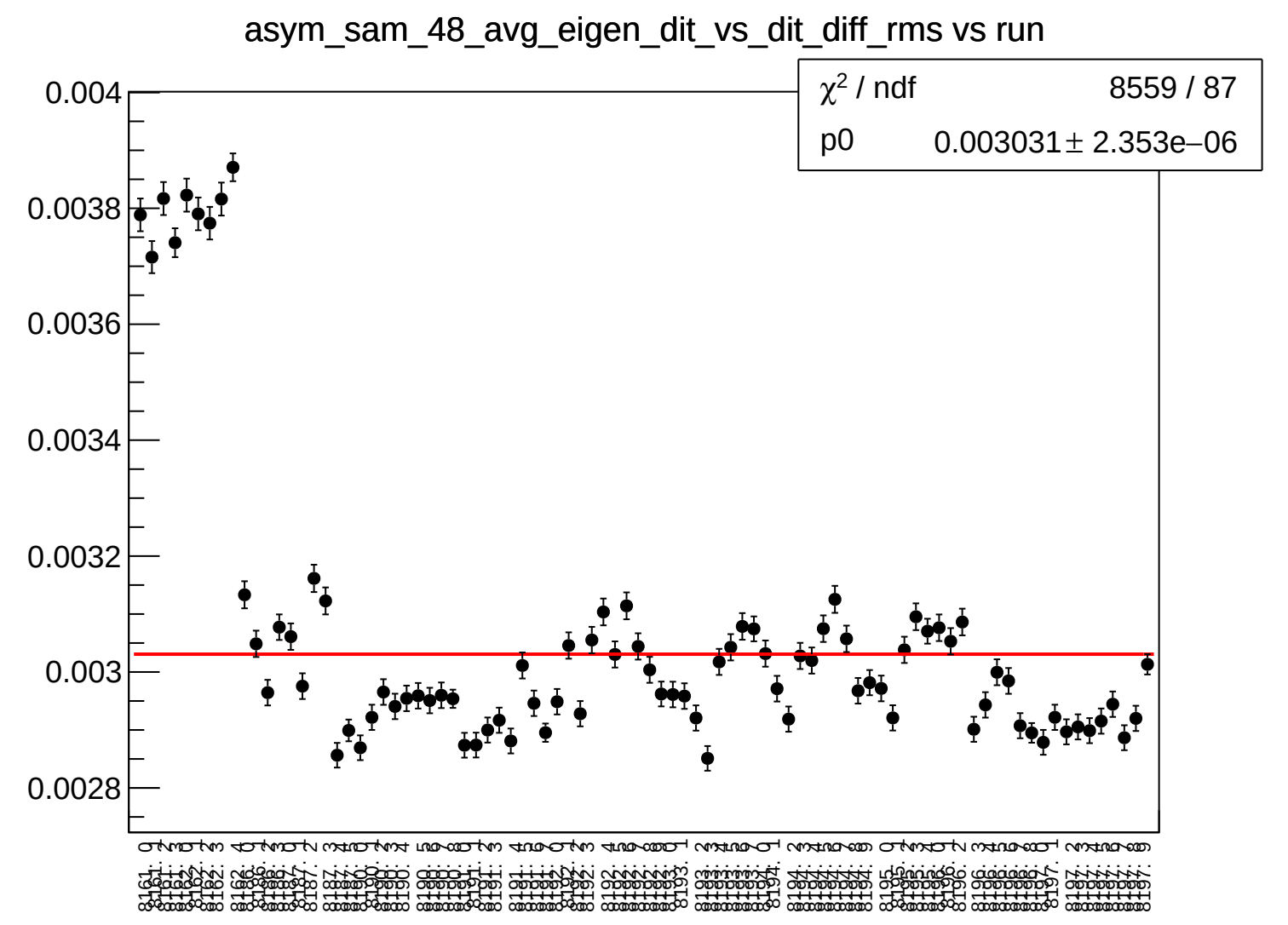

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.251e+04 / 87
p0 96 ± 0.07579
160
140
120
100
80
60

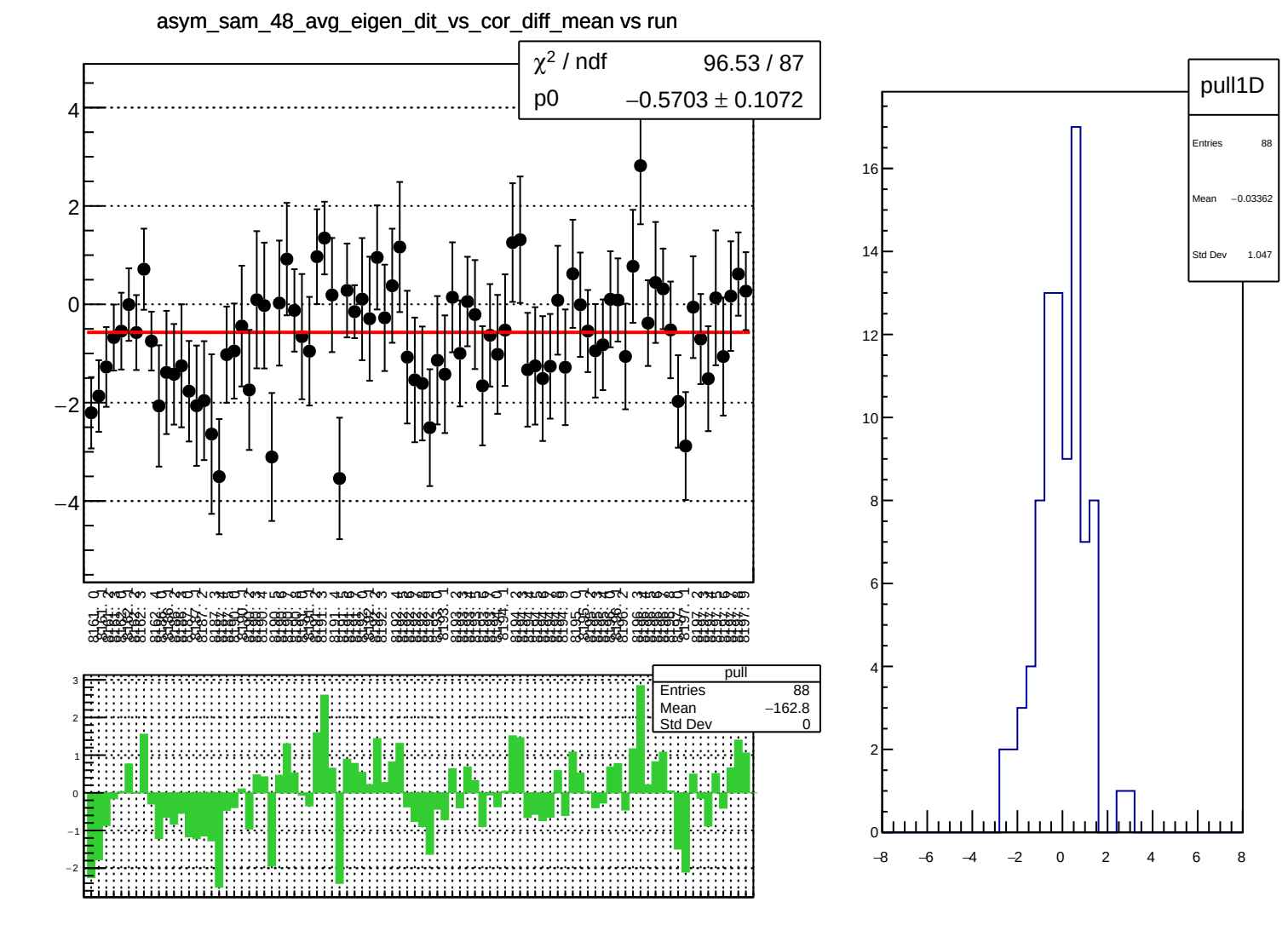

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.53 / 87
p0 −0.5703 ± 0.1072
pull
Entries 88
Mean −162.8
Std Dev 0
pull1D
Entries 88
Mean −0.03362
Std Dev 1.047

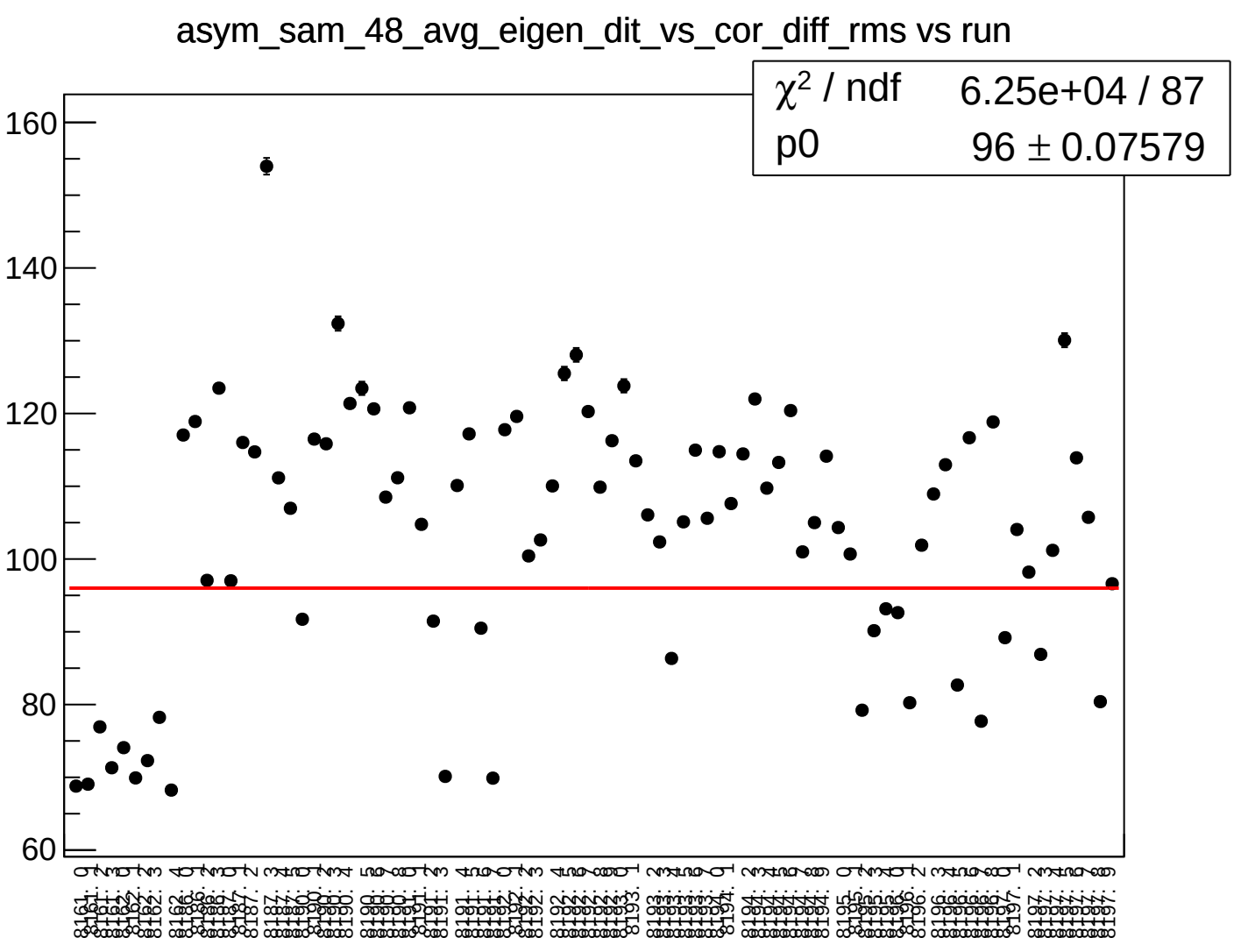

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.251e+04 / 87
p0 96 ± 0.07579
160
140
120
100
80
60

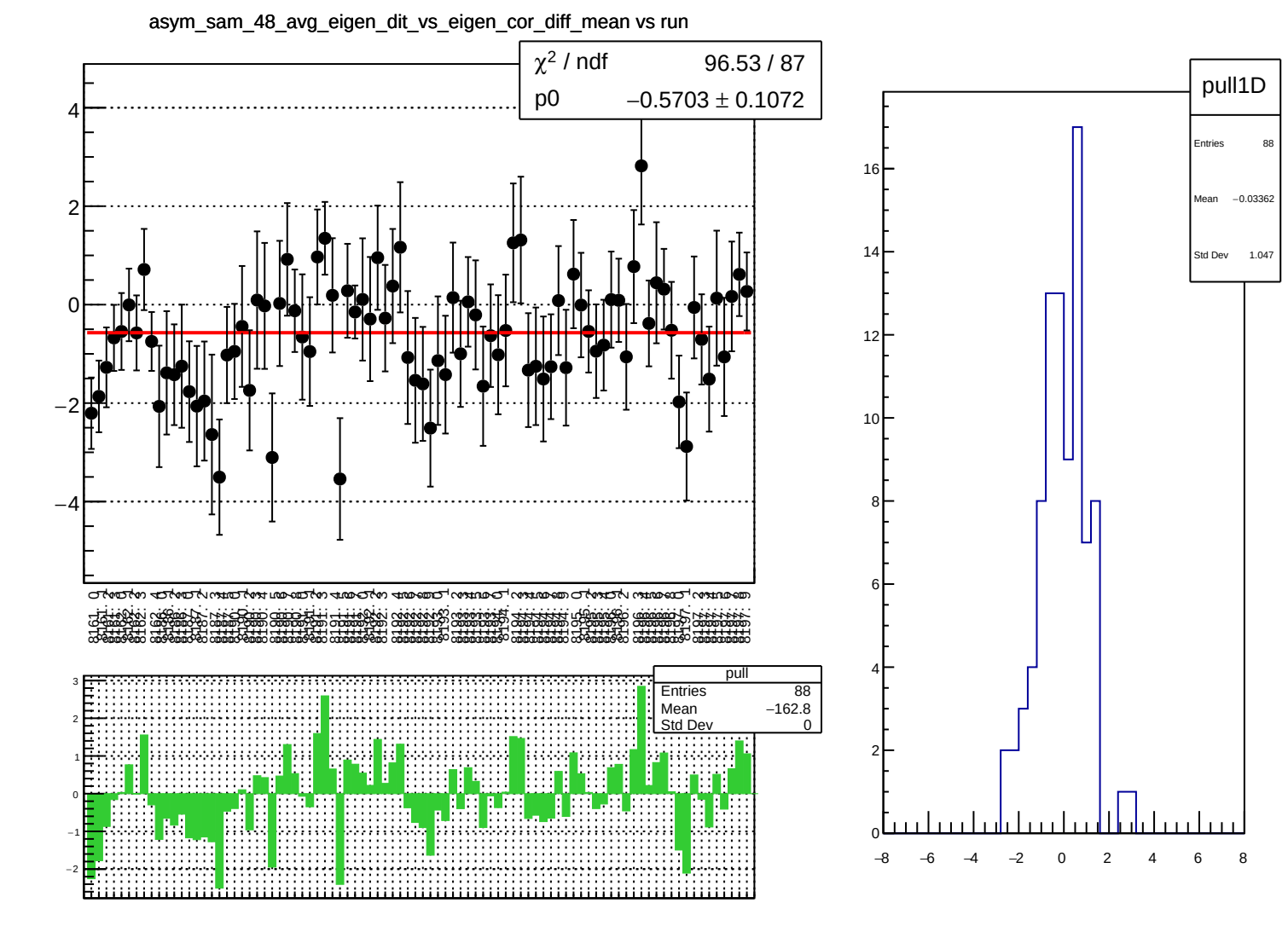

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 100.8 / 87
p0 1.832e−05 ± 3.328e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −1735
Std Dev 0
2
1
0
−1
−2

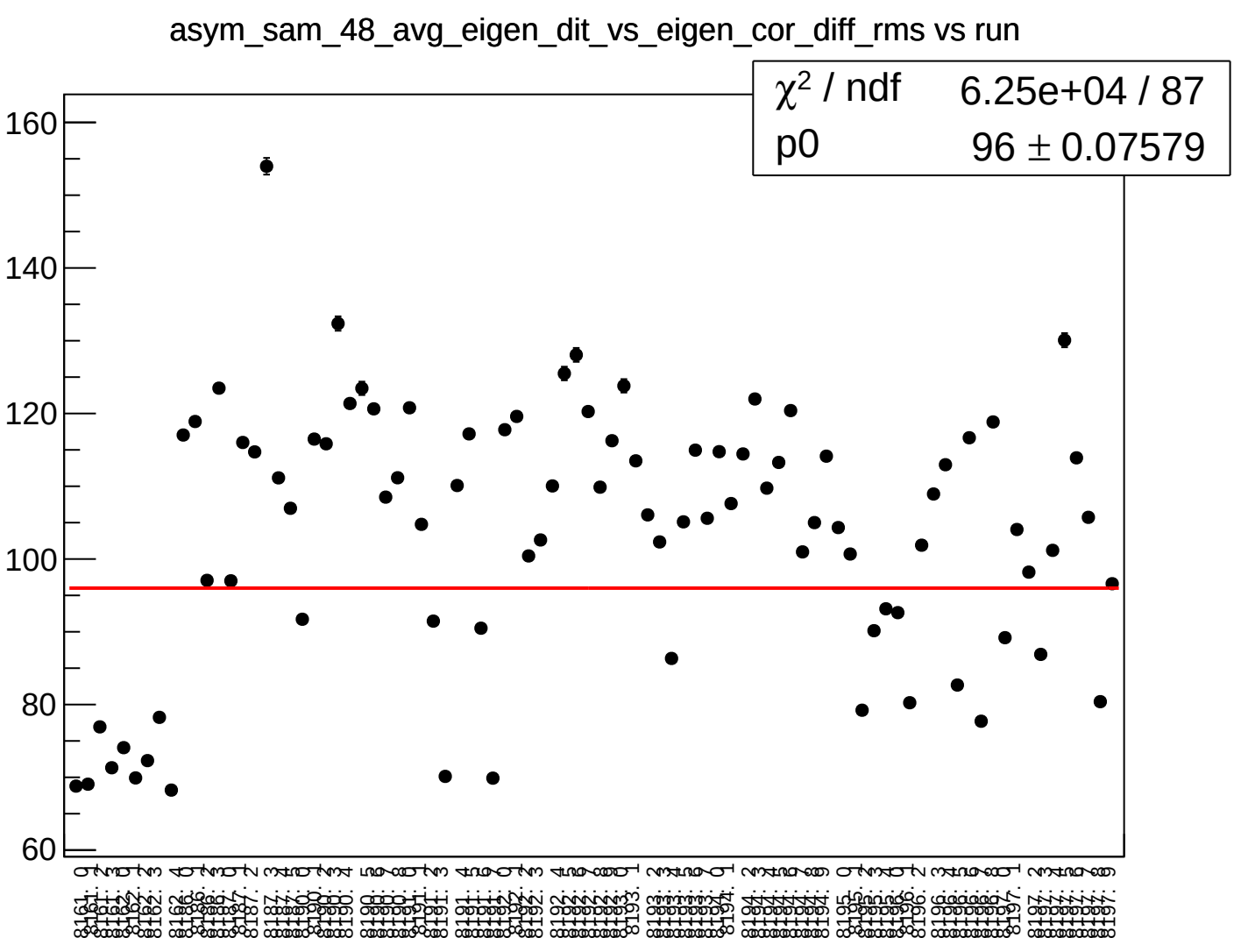

pull1D
Entries 88
Mean 0.003
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

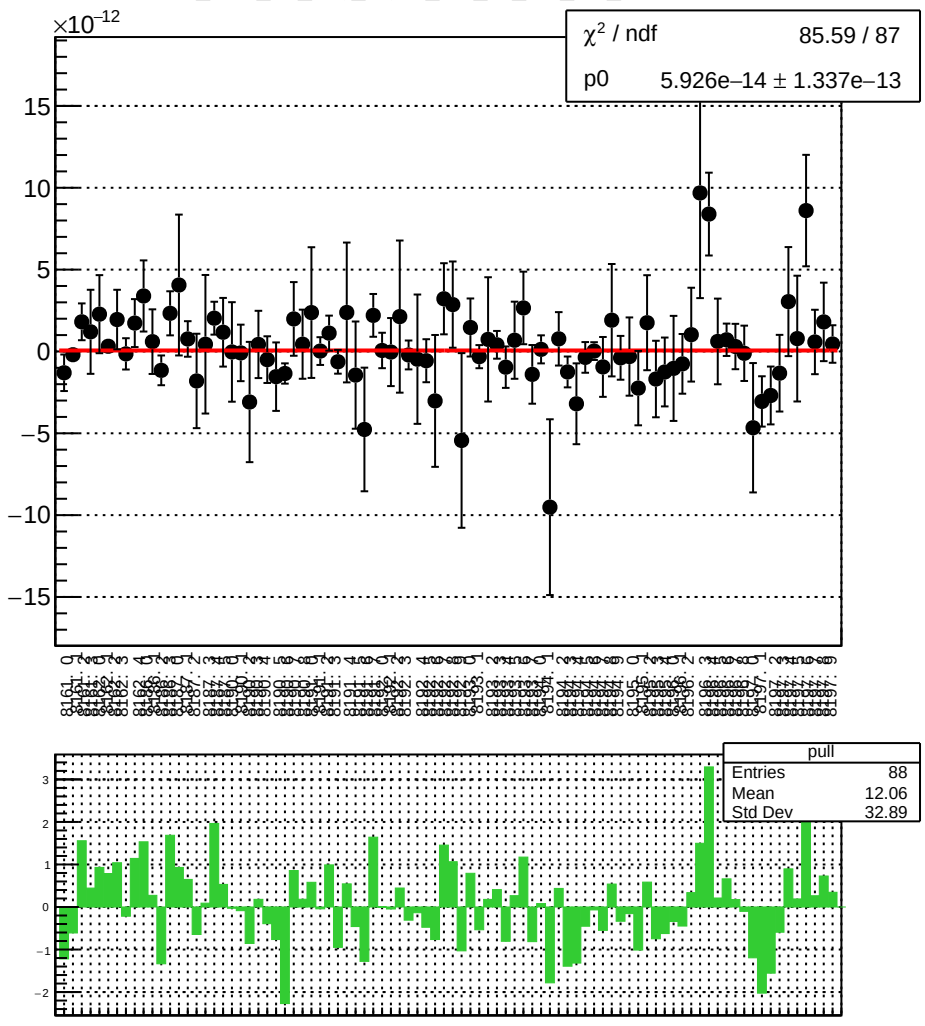

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8559 / 87
p0 0.003031 ± 2.353e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

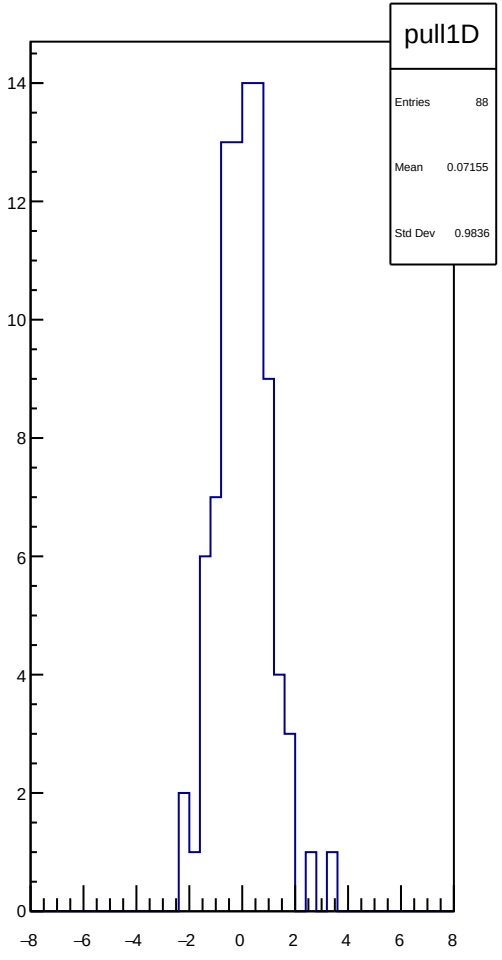

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.53 / 87
p0 −0.5703 ± 0.1072
pull
Entries 88
Mean −162.8
Std Dev 0
pull1D
Entries 88
Mean −0.03362
Std Dev 1.047

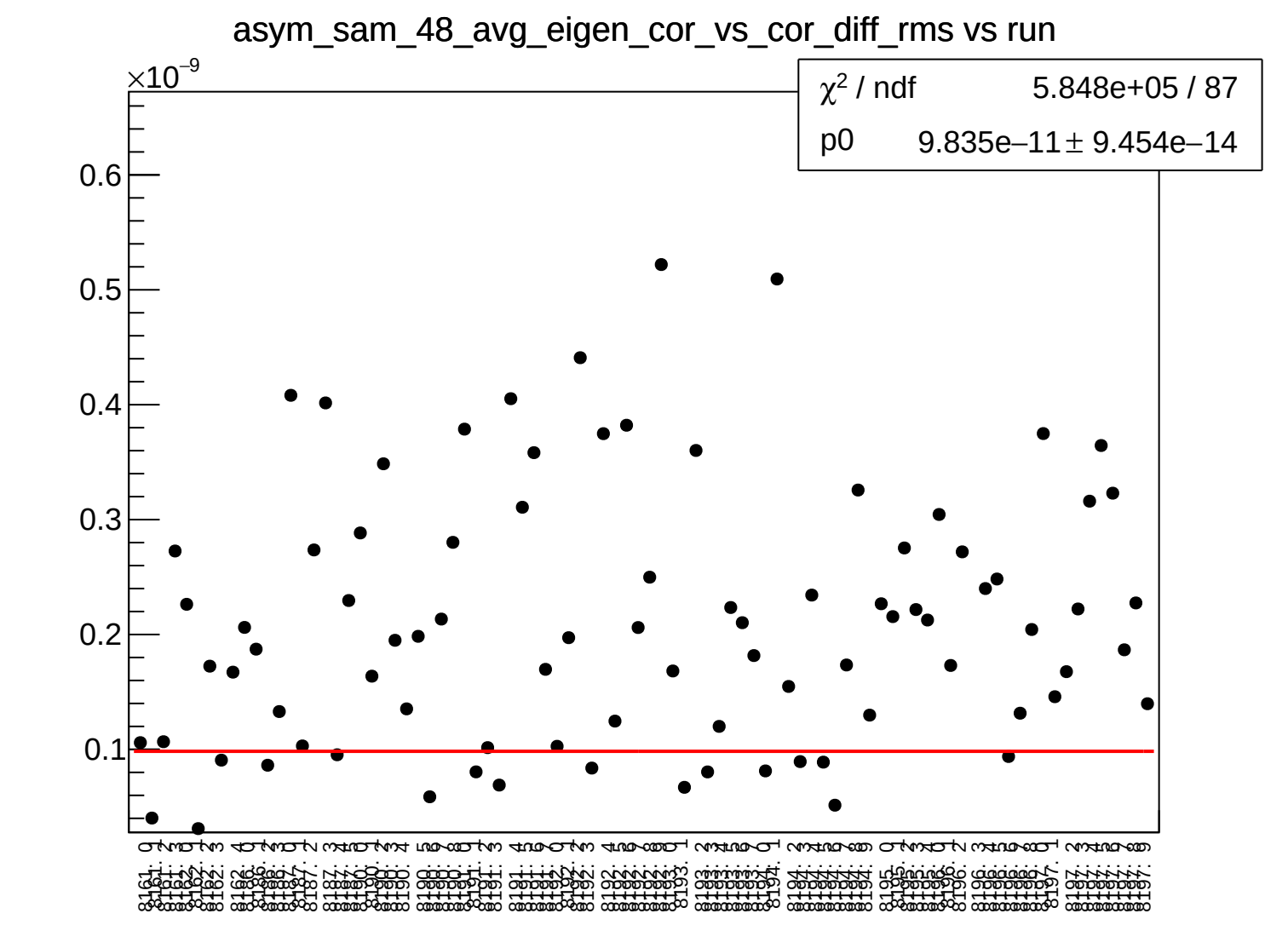

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.25e+04 / 87
p0 96 ± 0.07579
160
140
120
100
80
60

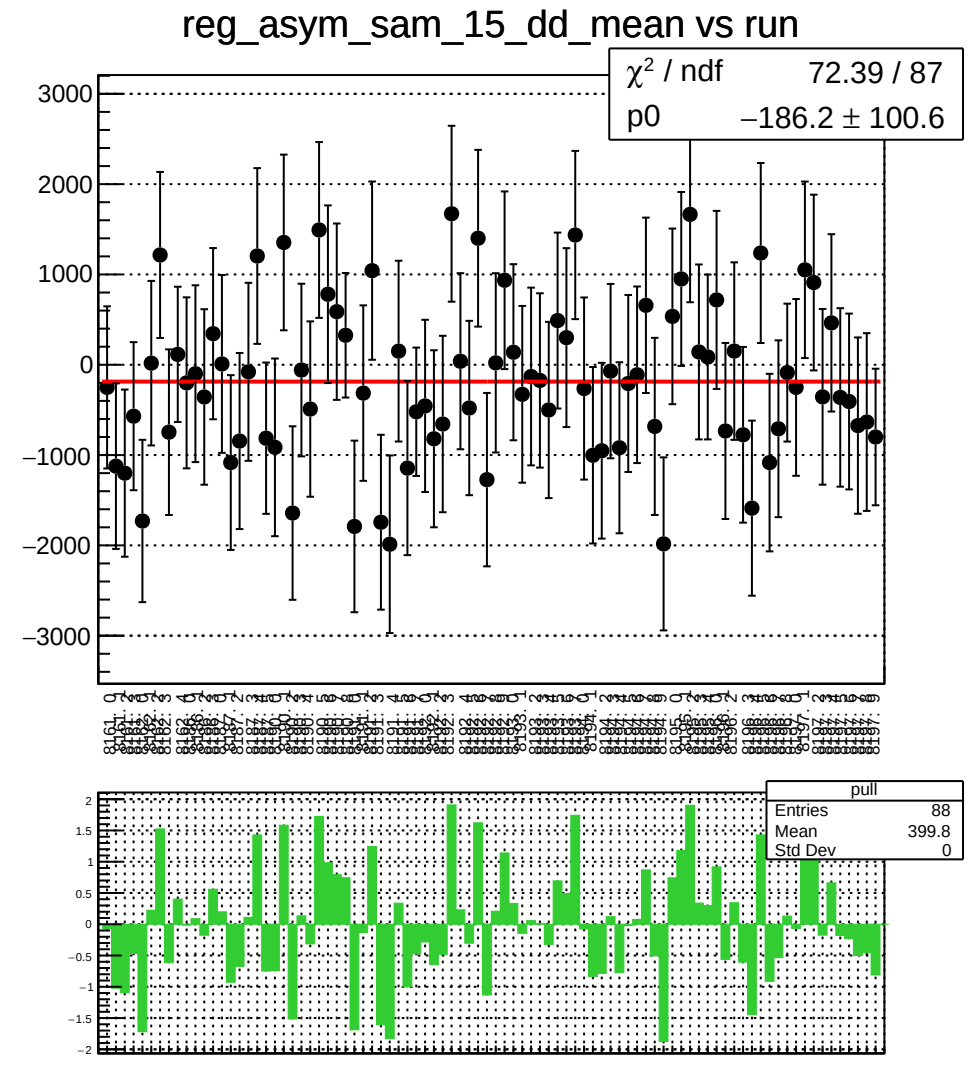

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.53 / 87
p0 −0.5703 ± 0.1072
pull
Entries 88
Mean −162.8
Std Dev 0
pull1D
Entries 88
Mean −0.03362
Std Dev 1.047

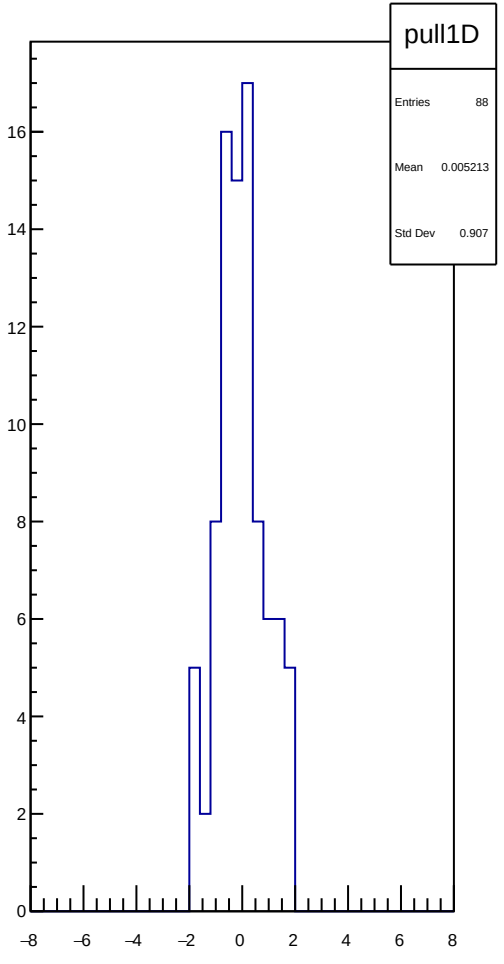

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.25e+04 / 87
p0 96 ± 0.07579
160
140
120
100
80
60

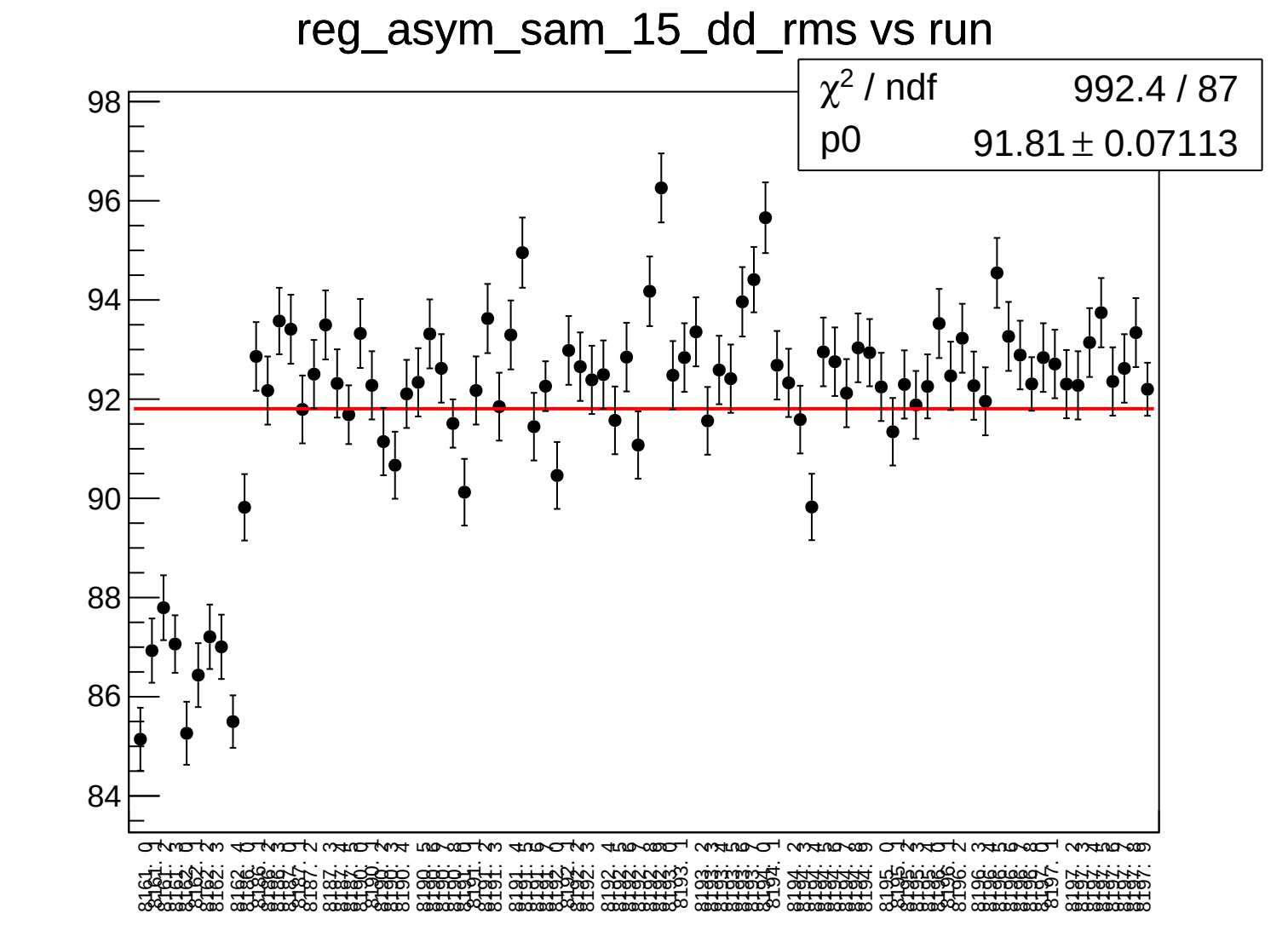

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.59 / 87
p0 5.926e−14 ± 1.337e−13
pull
Entries 88
Mean 12.06
Std Dev 32.89

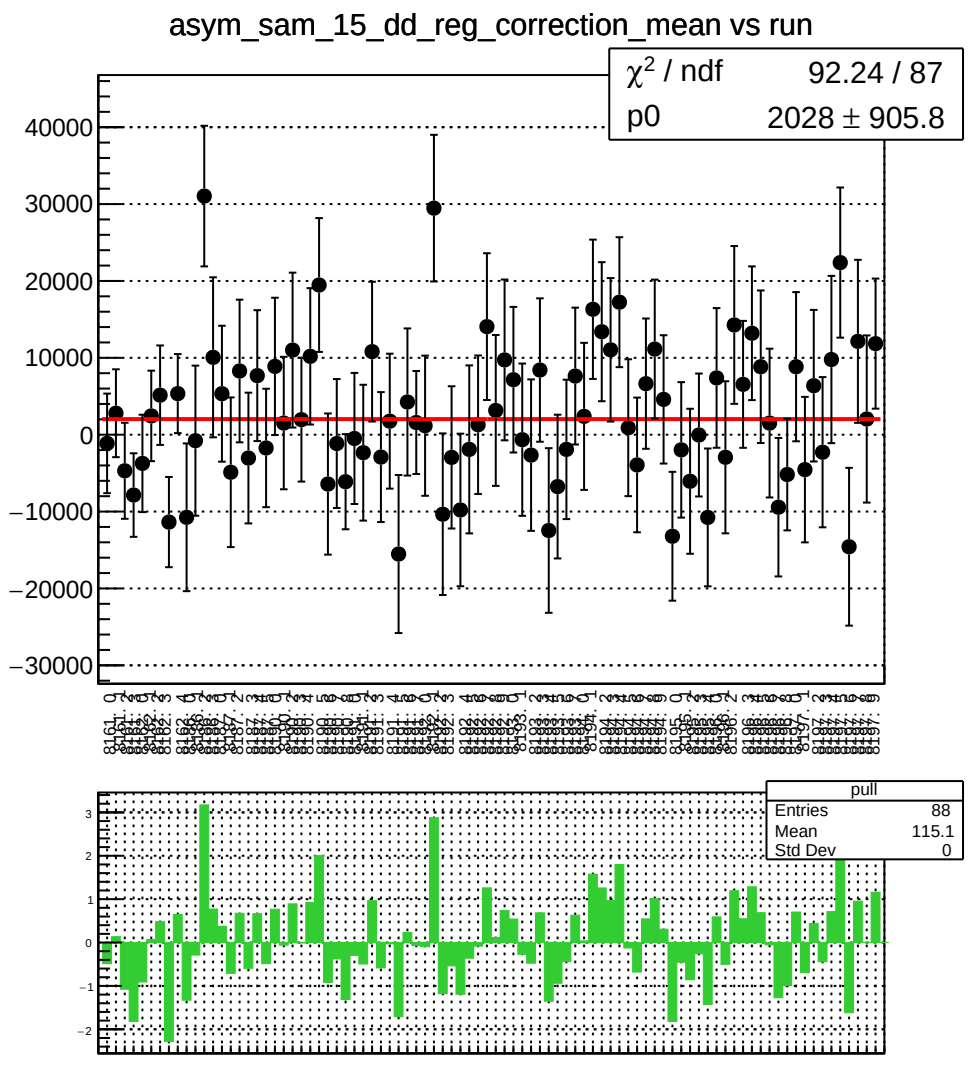

pull1D
Entries 88
Mean 0.07155
Std Dev 0.9836

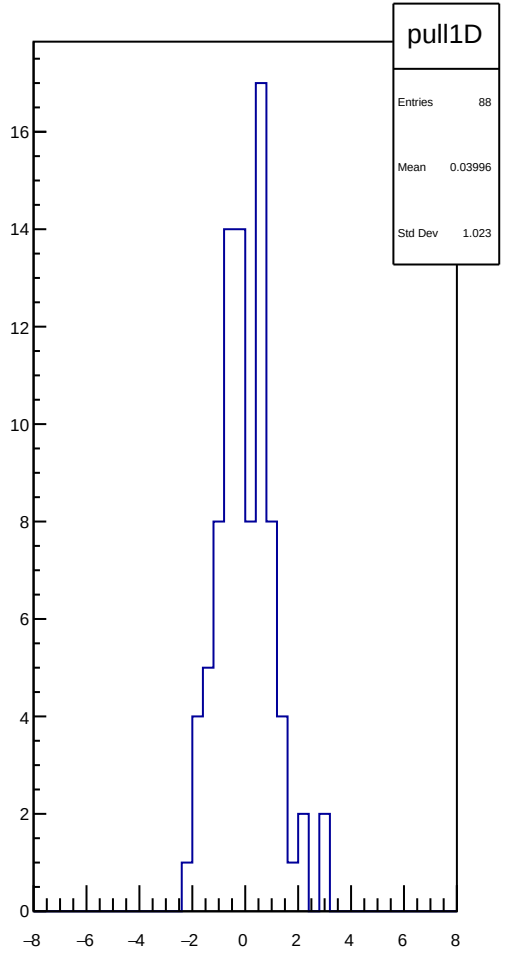

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.848e+05 / 87
p0 9.835e−11 ± 9.454e−14
0.6
0.5
0.4
0.3
0.2
0.1

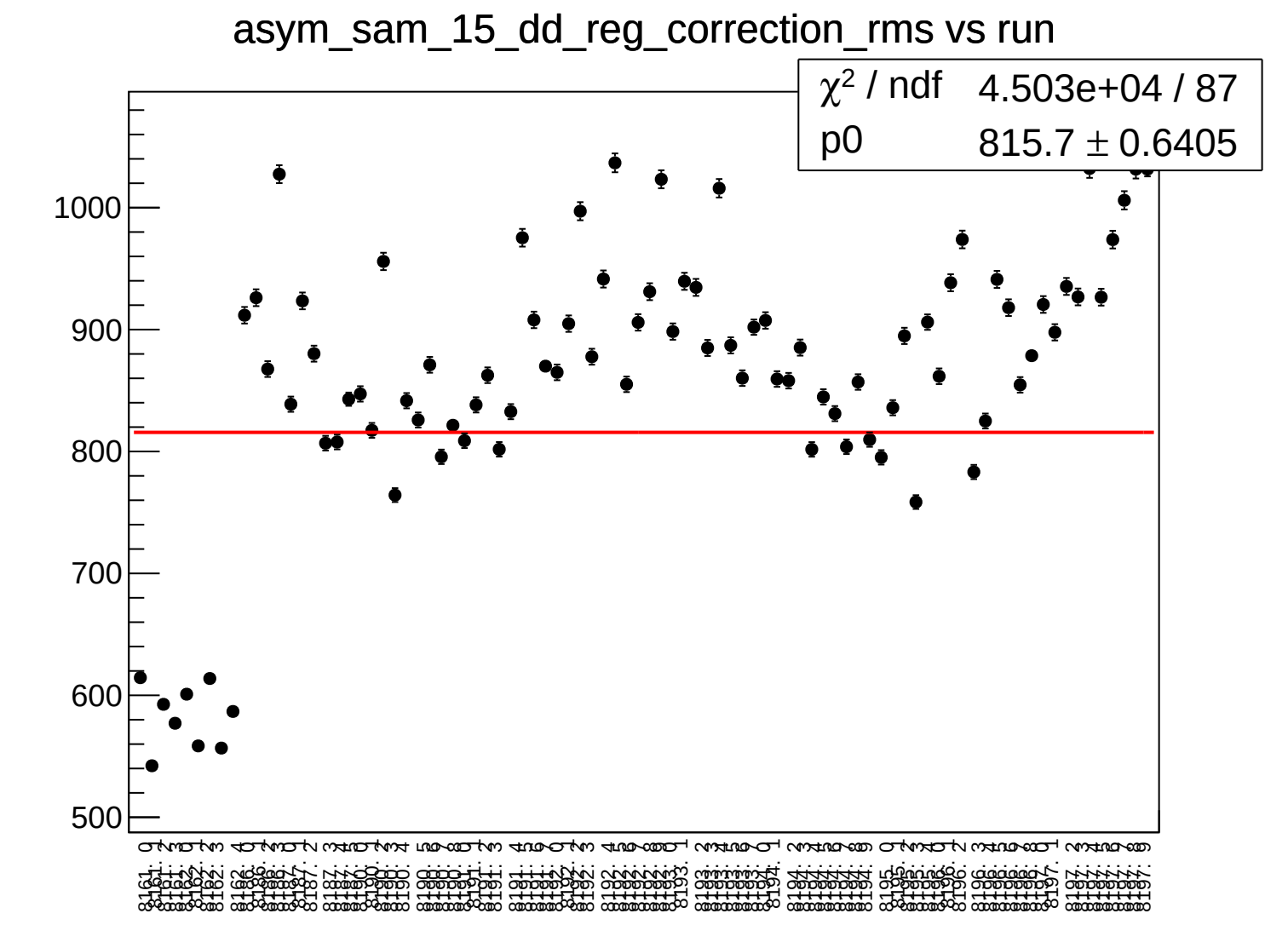

reg_asym_sam_15_dd_mean vs run
χ² / ndf 72.39 / 87
p0 −186.2 ± 100.6
pull
Entries 88
Mean 399.8
Std Dev 0

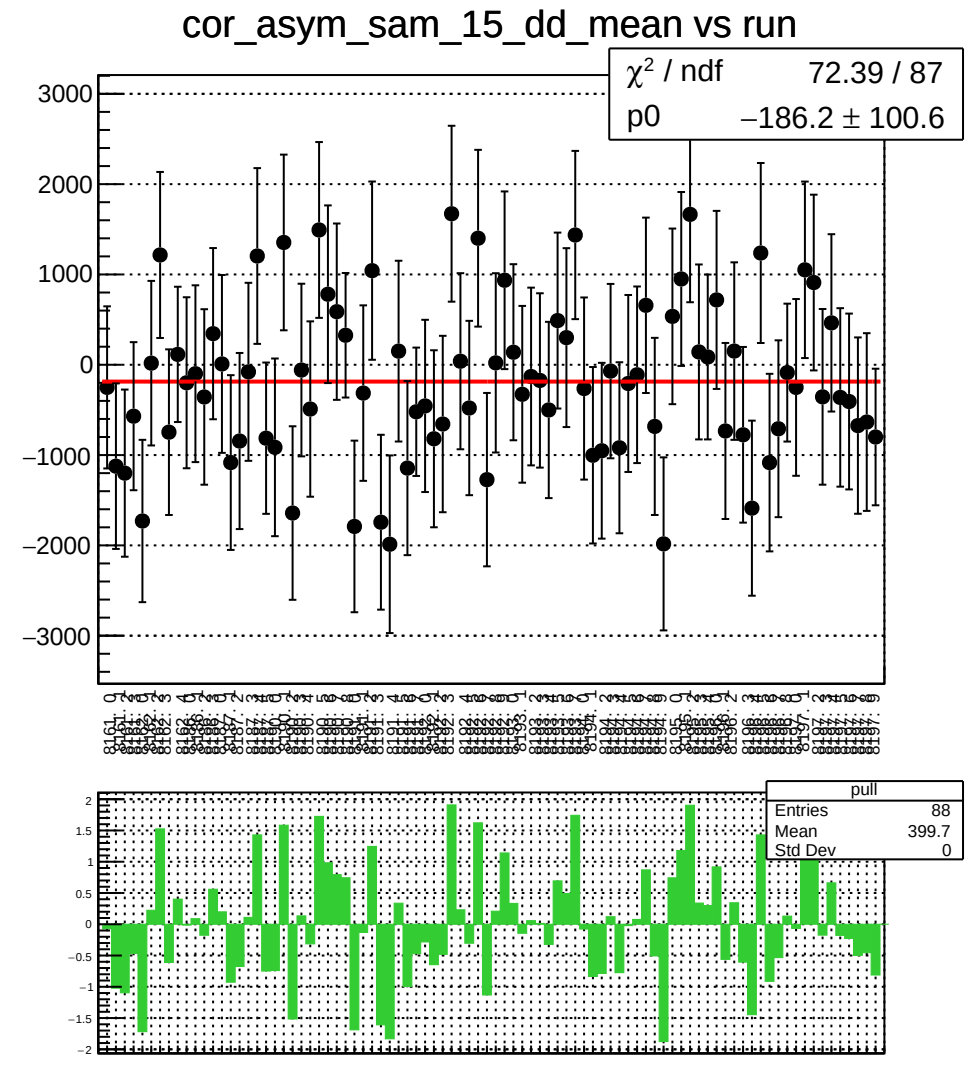

pull1D
Entries 88
Mean 0.005213
Std Dev 0.907

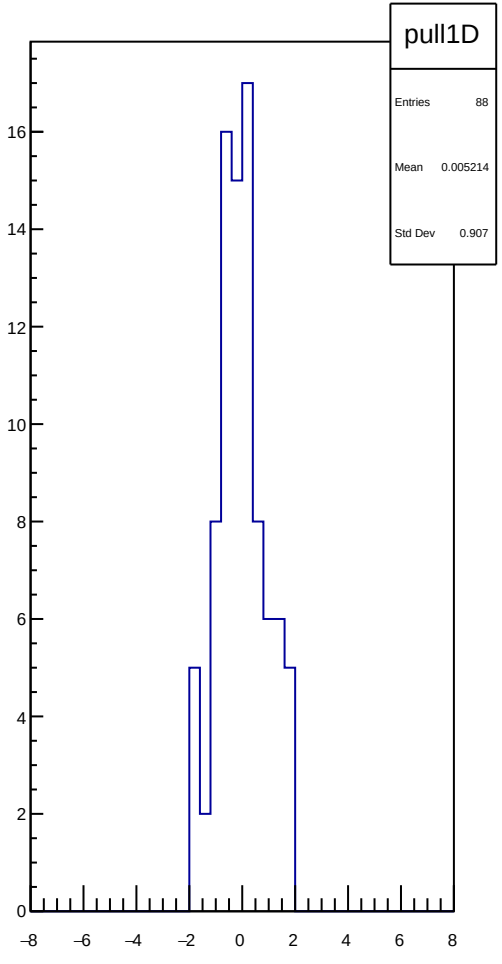

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 992.4 / 87
p0 91.81 ± 0.07113
98
96
94
92
90
88
86
84

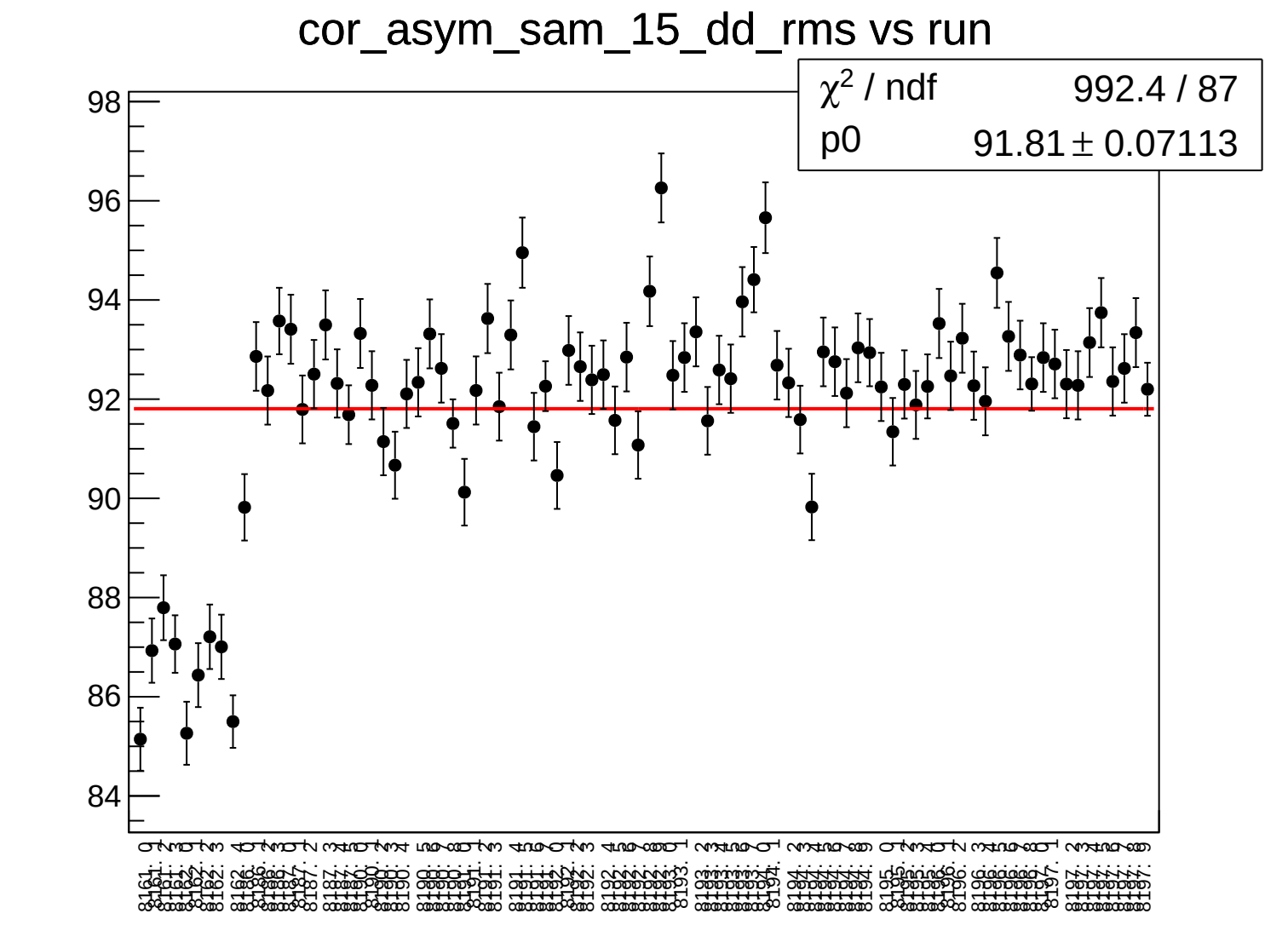

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 92.24 / 87
p0 2028 ± 905.8
pull
Entries 88
Mean 115.1
Std Dev 0

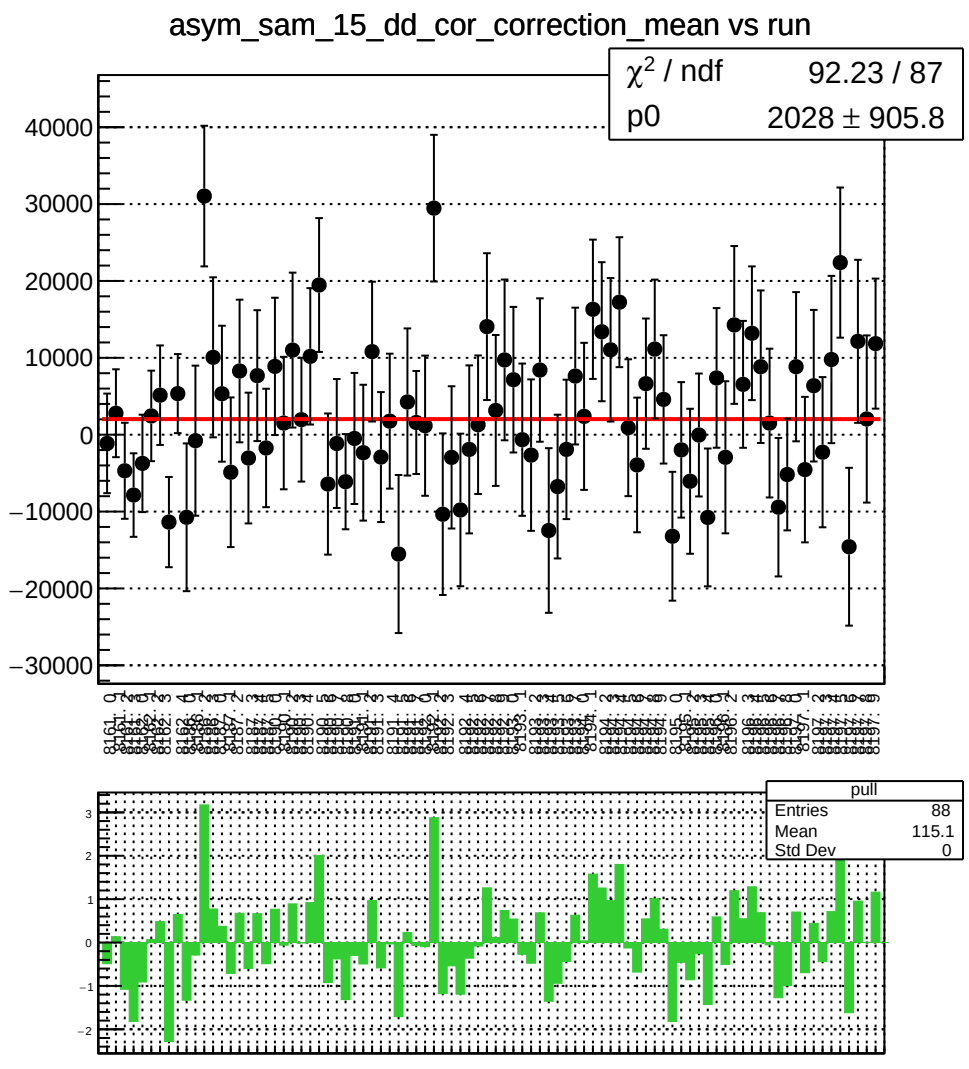

pull1D
Entries 88
Mean 0.03996
Std Dev 1.023

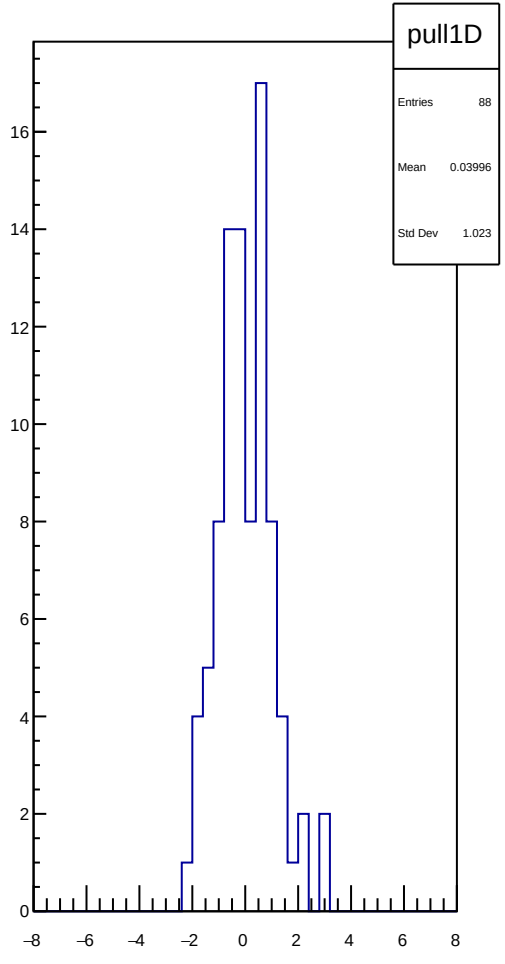

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 4.503e+04 / 87
p0 815.7 ± 0.6405
1000
900
800
700
600
500

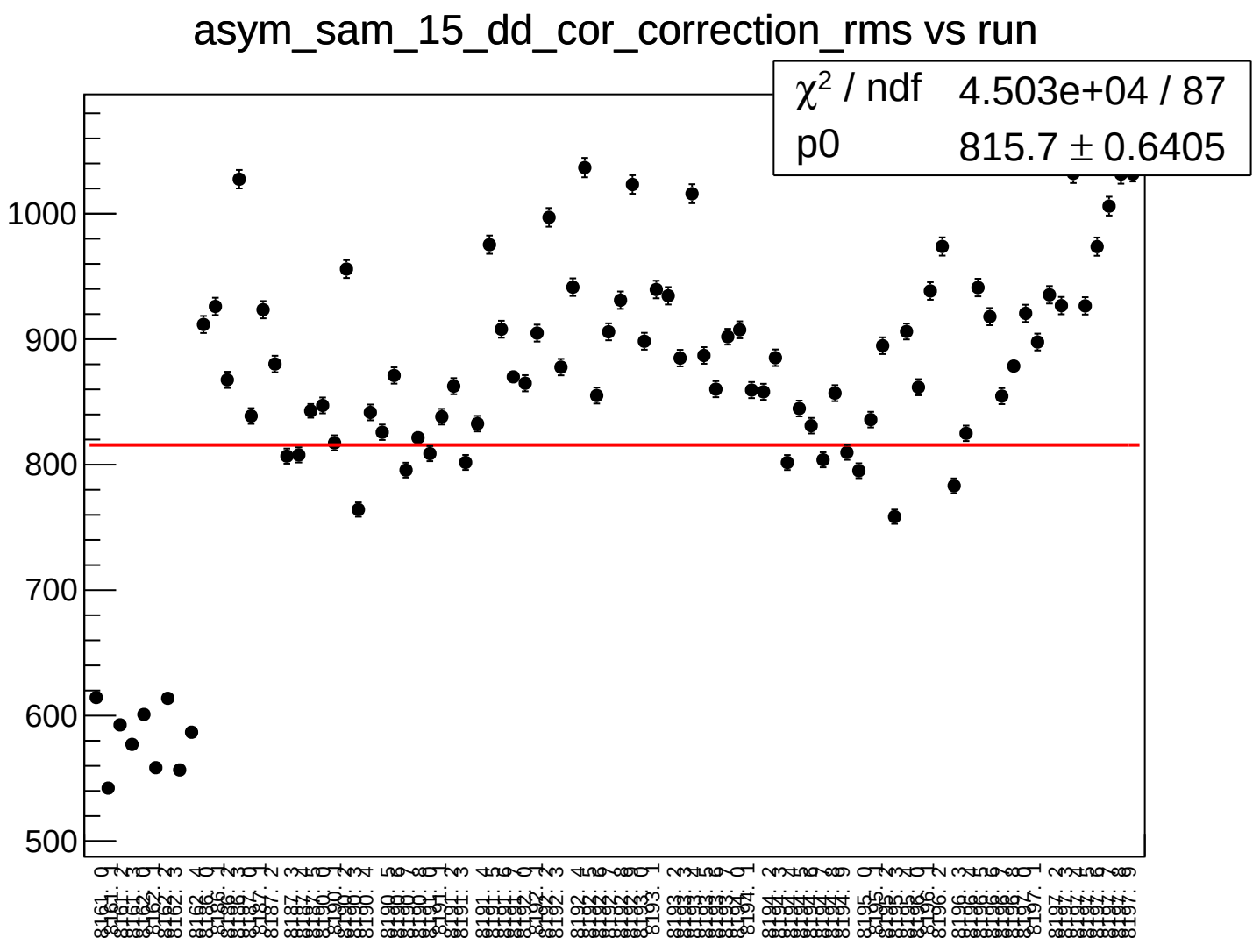

cor_asym_sam_15_dd_mean vs run
χ² / ndf 72.39 / 87
p0 −186.2 ± 100.6
pull
Entries 88
Mean 399.7
Std Dev 0

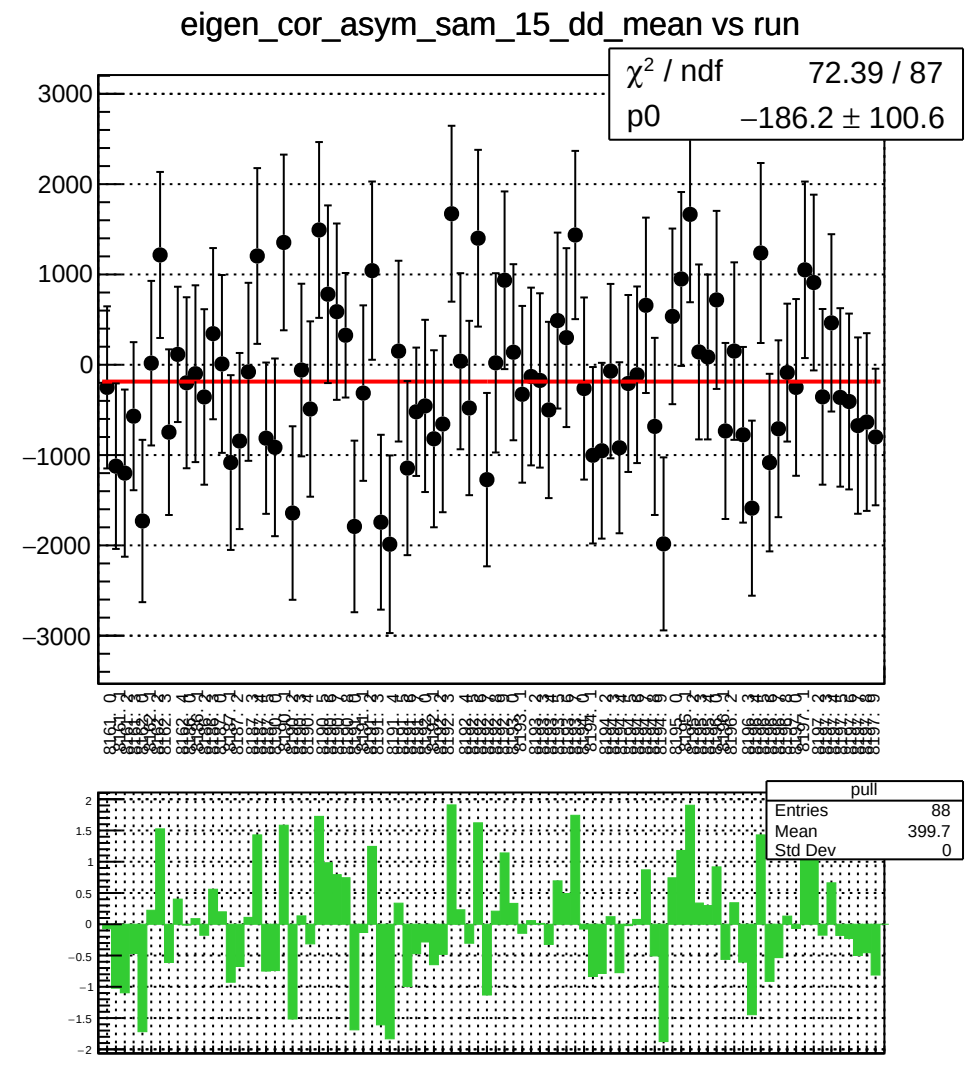

pull1D
Entries 88
Mean 0.005214
Std Dev 0.907

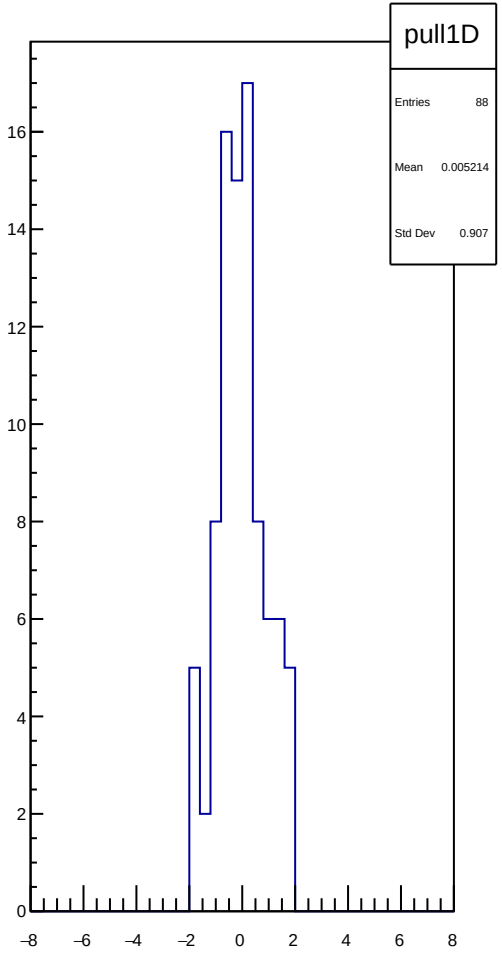

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 992.4 / 87
p0 91.81 ± 0.07113
98
96
94
92
90
88
86
84

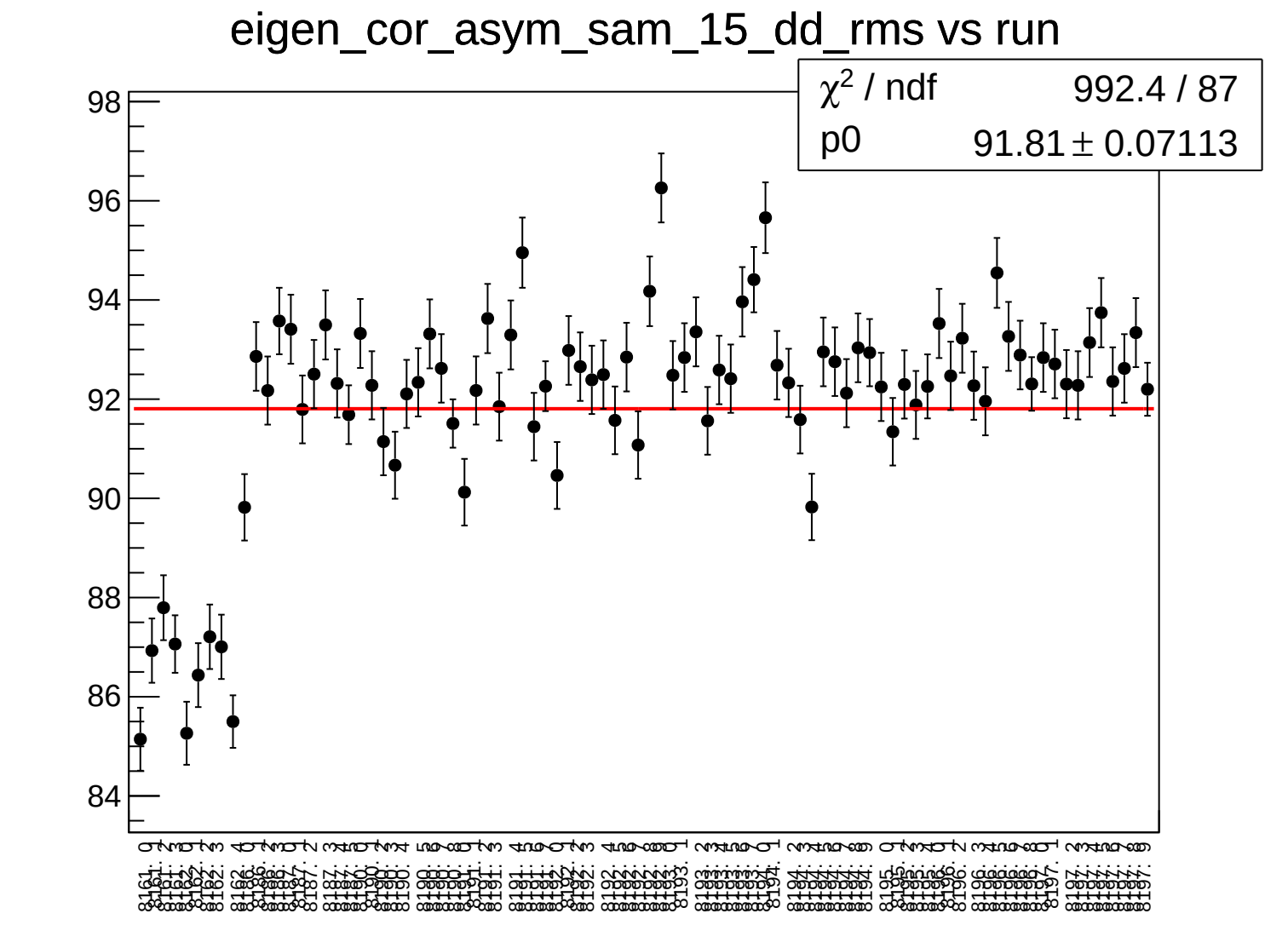

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 92.23 / 87
p0 2028 ± 905.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 115.1
Std Dev 0
3
2
1
0
−1
−2

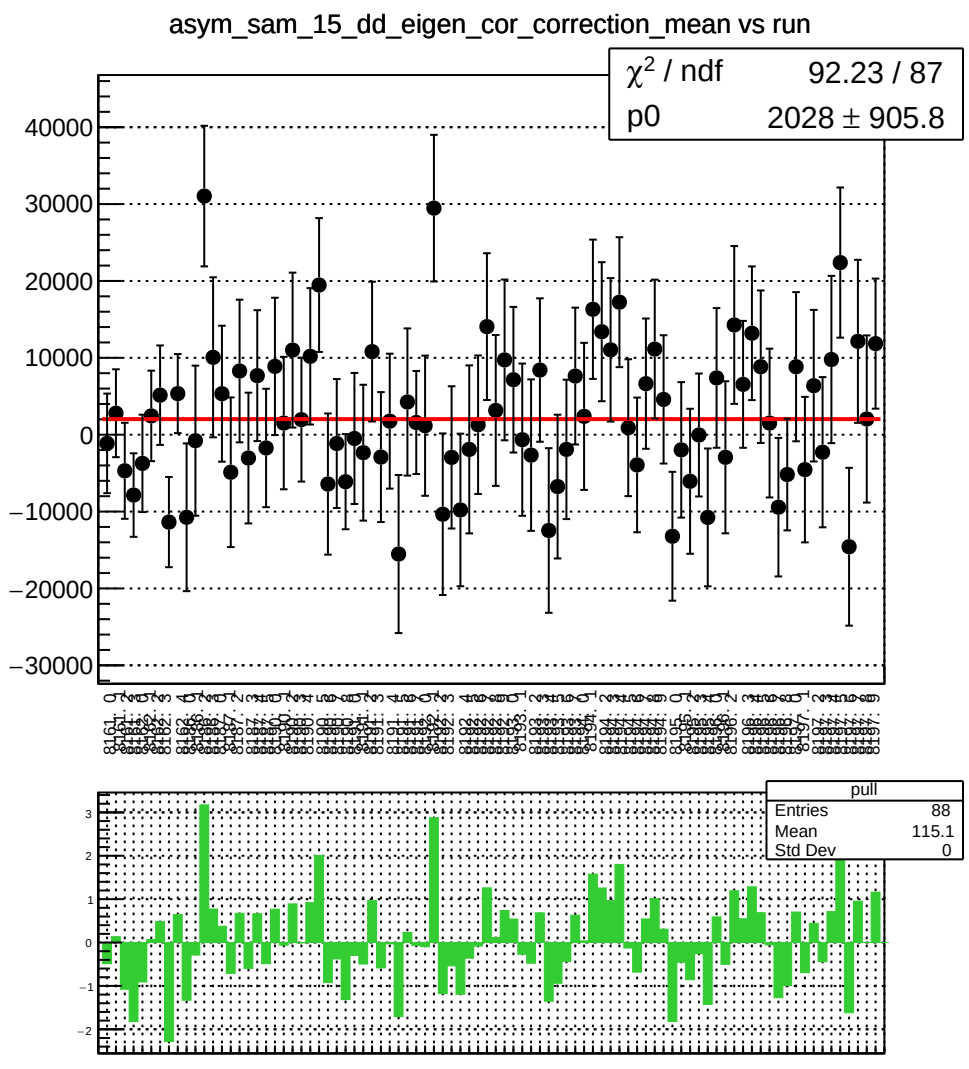

pull1D
Entries 88
Mean 0.03996
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

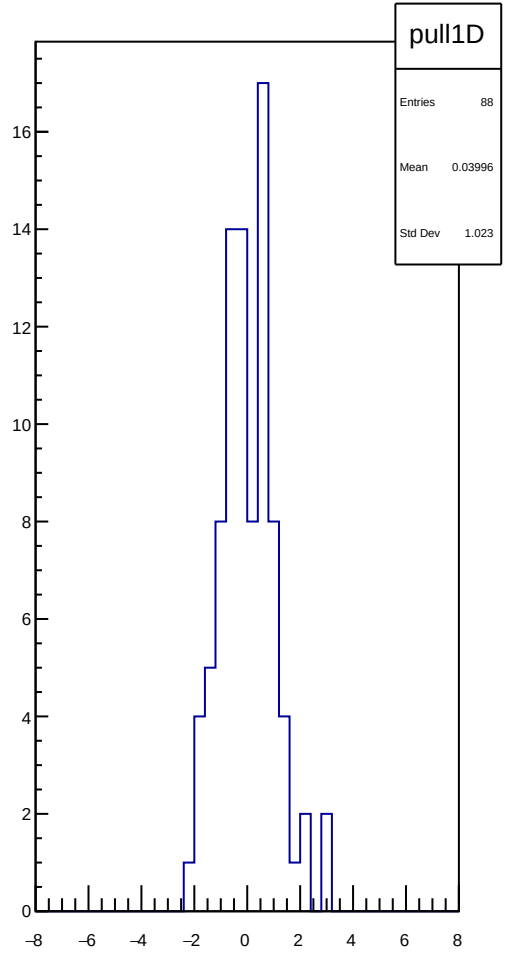

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 4.503e+04 / 87
p0 815.7 ± 0.6405
1000
900
800
700
600
500


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 72.39 / 87
p0 −186.2 ± 100.6
pull
Entries 88
Mean 399.7
Std Dev 0


pull1D
Entries 88
Mean 0.005214
Std Dev 0.907


eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 992.4 / 87
p0 91.81 ± 0.07113
98
96
94
92
90
88
86
84


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.23 / 87
p0 2028 ± 905.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 115.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.03996
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
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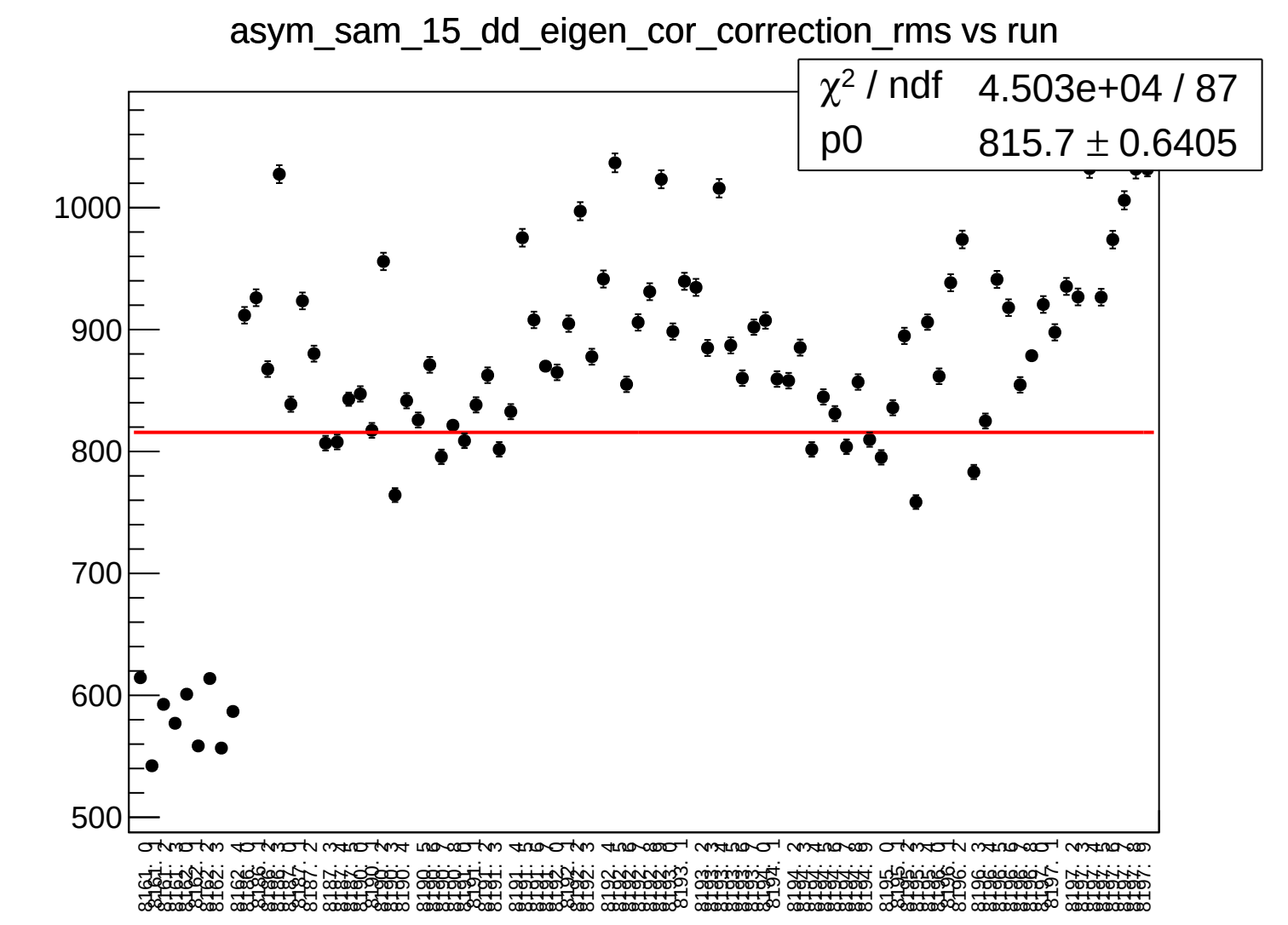
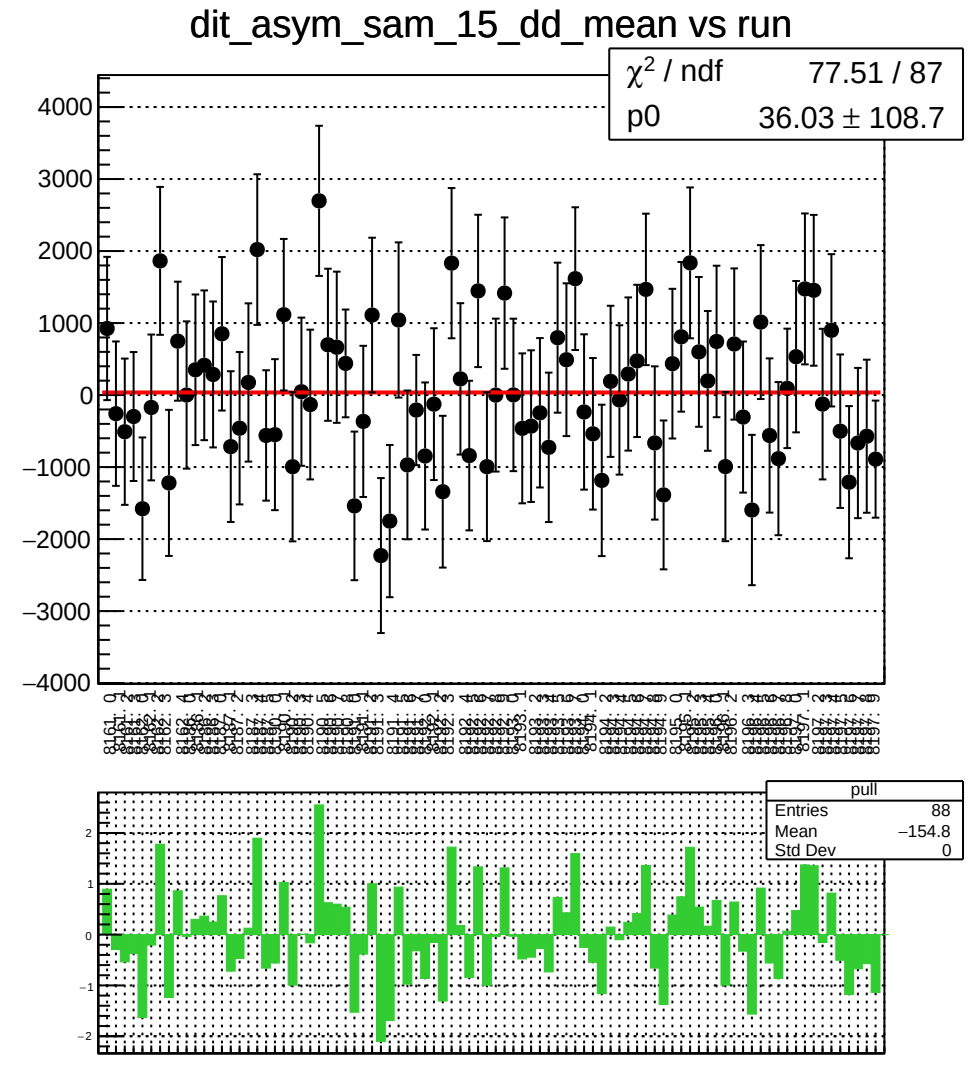
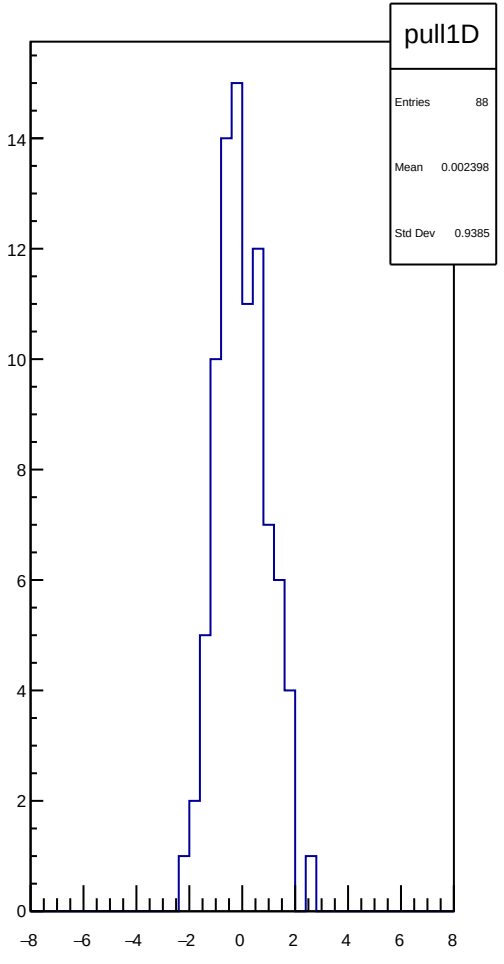
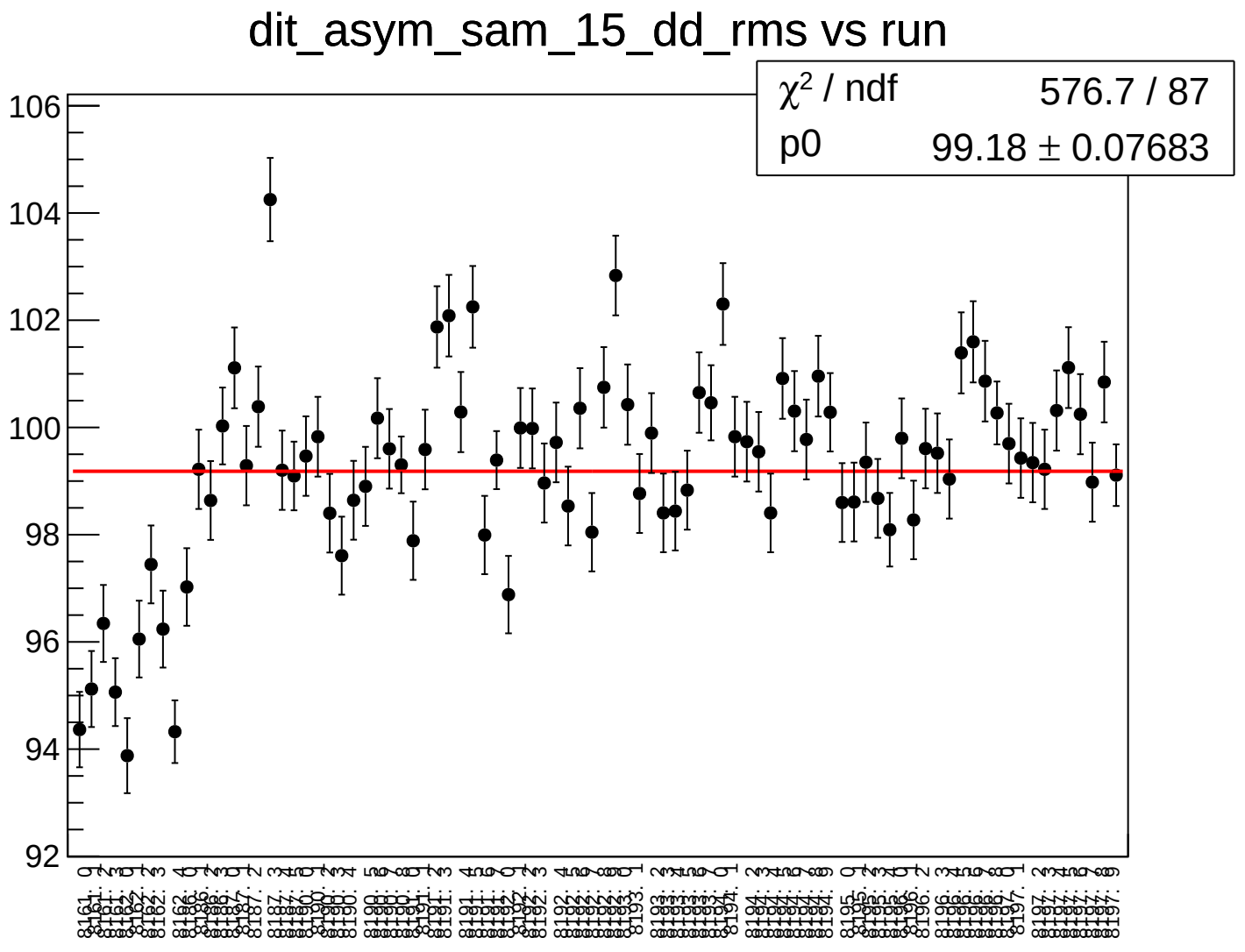
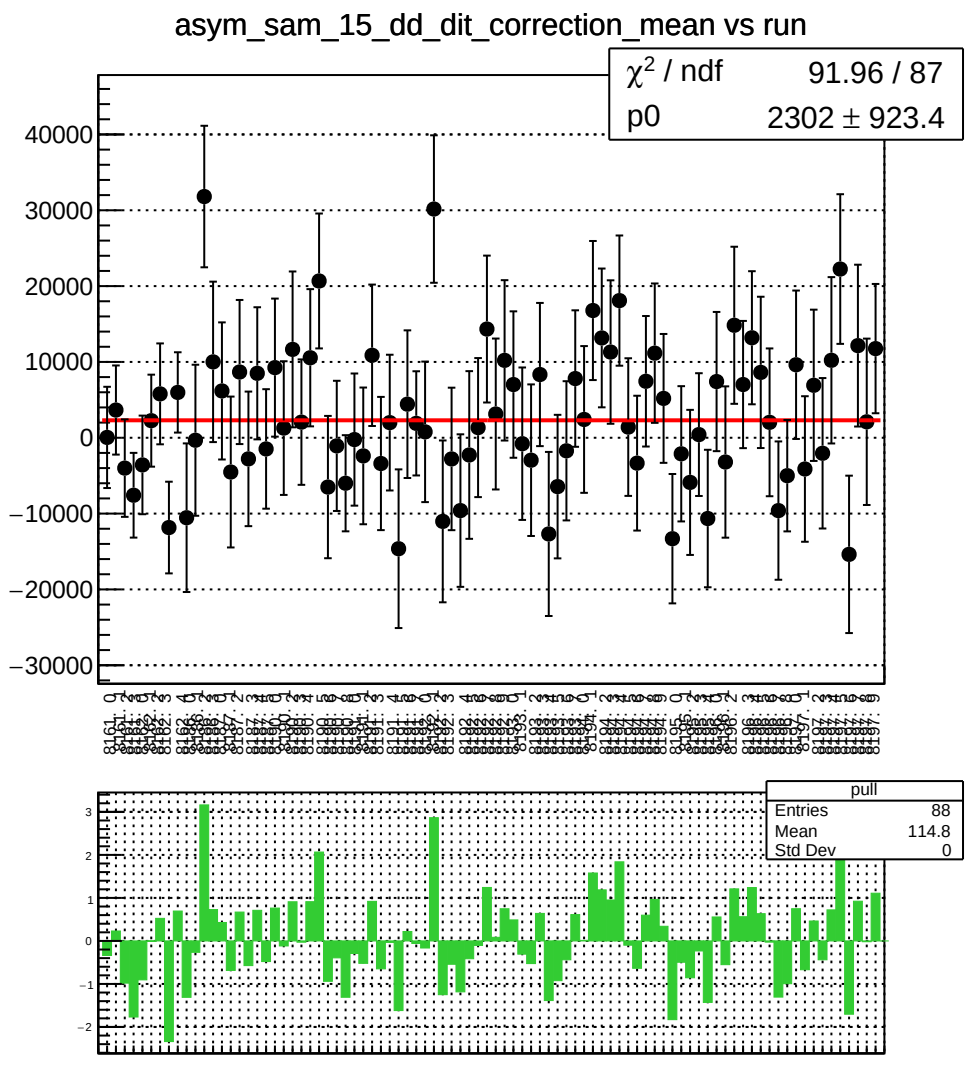
0
2
4
6
8

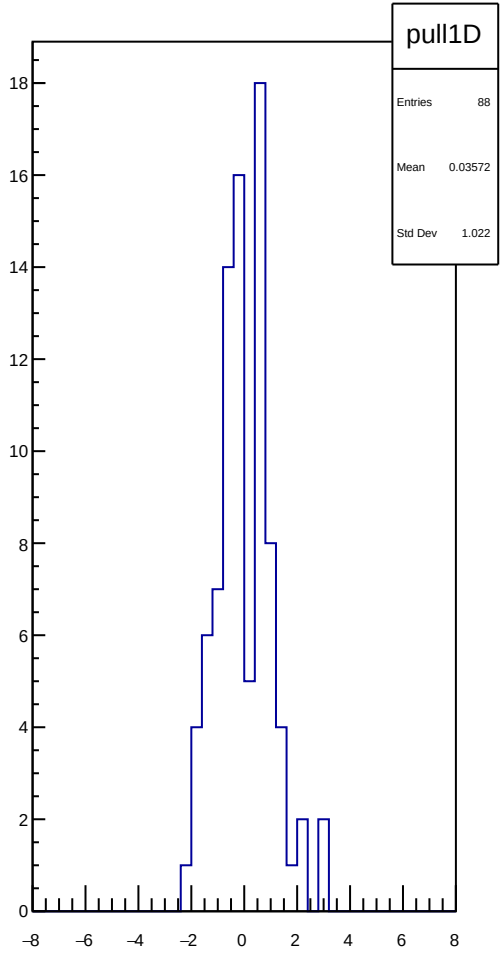

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.503e+04 / 87
p0 815.7 ± 0.6405
1000
900
800
700
600
500

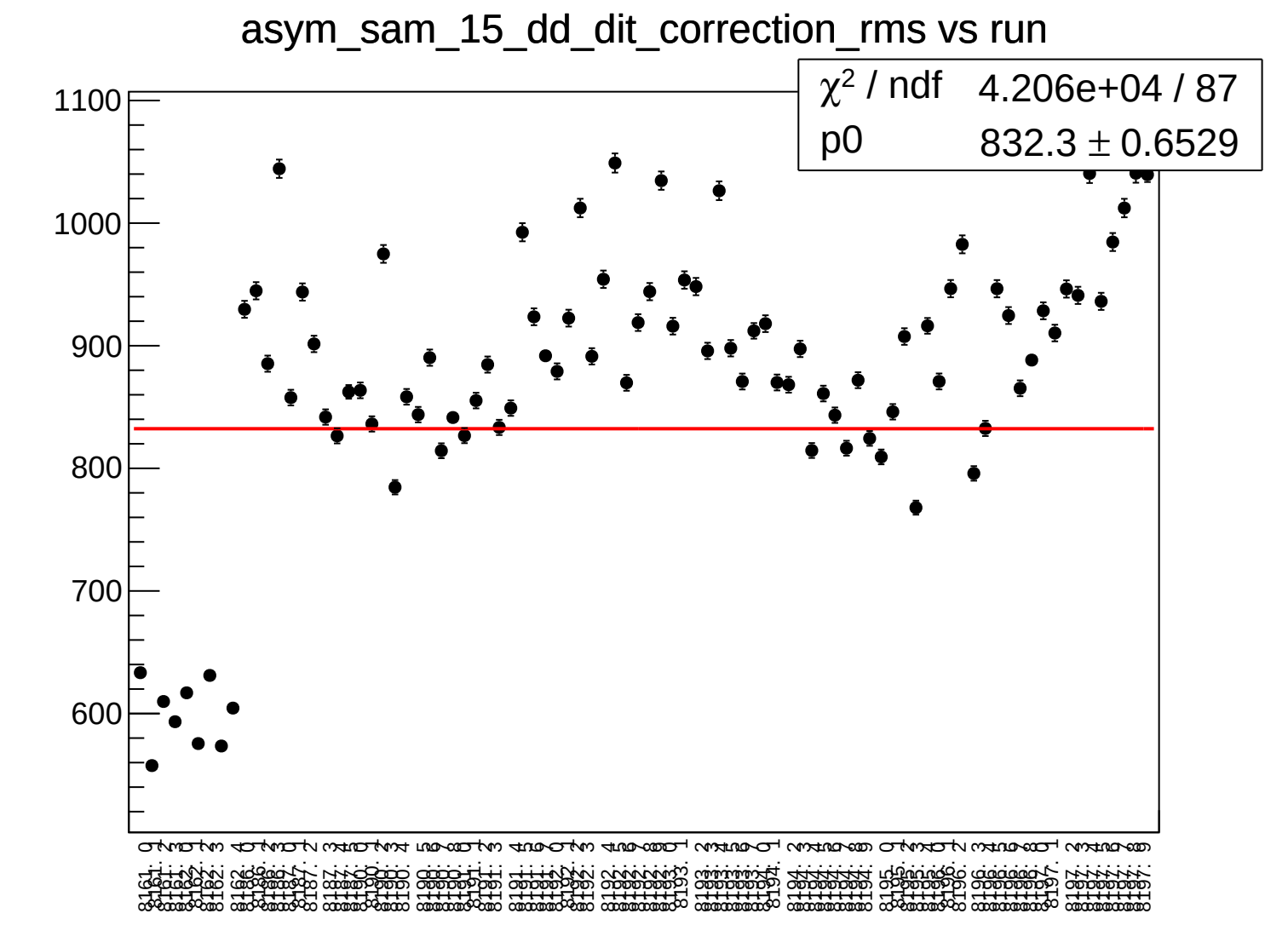

dit_asym_sam_15_dd_mean vs run
χ² / ndf 77.51 / 87
p0 36.03 ± 108.7
pull
Entries 88
Mean −154.8
Std Dev 0

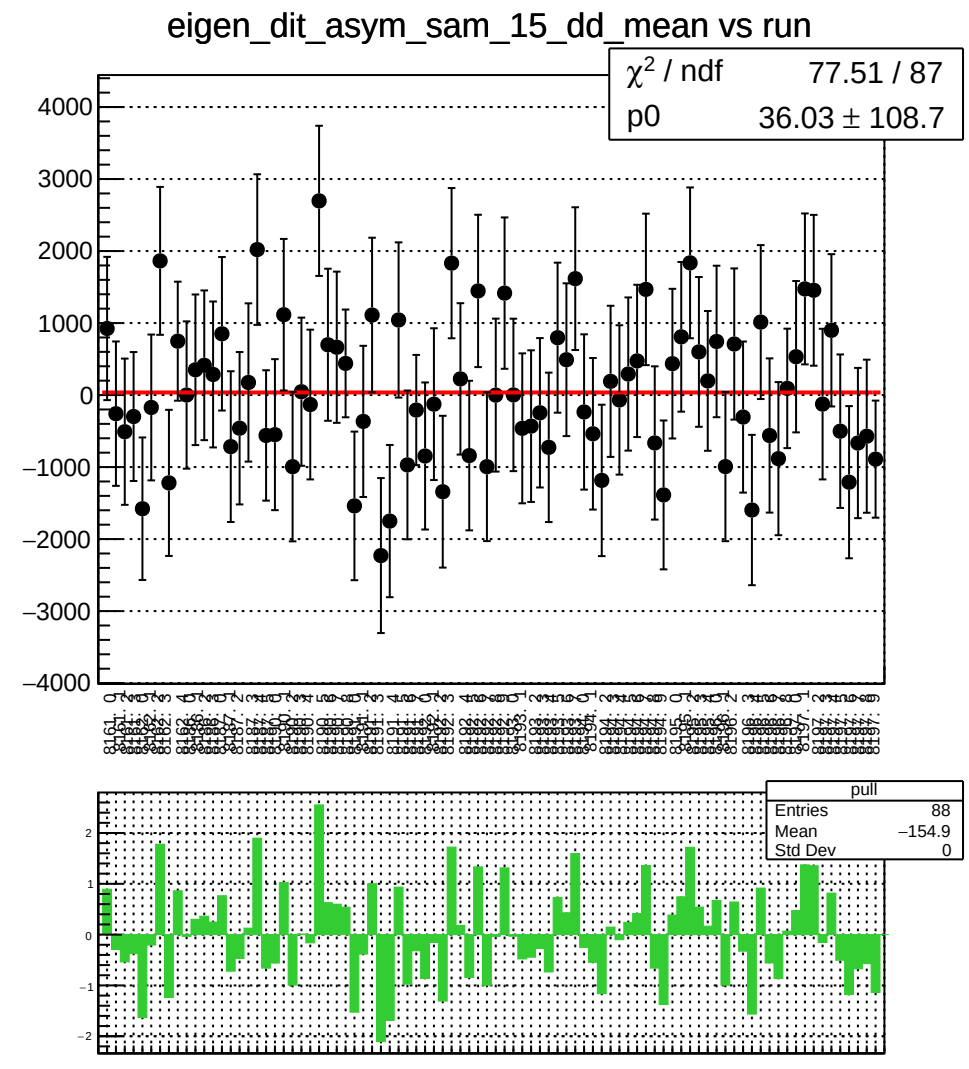

pull1D
Entries 88
Mean 0.002398
Std Dev 0.9385

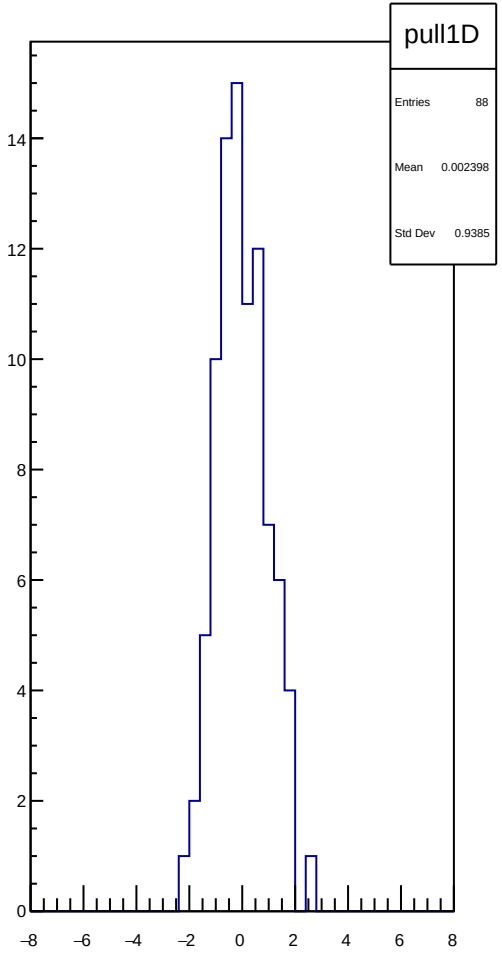

dit_asym_sam_15_dd_rms vs run
χ² / ndf 576.7 / 87
p0 99.18 ± 0.07683
106
104
102
100
98
96
94
92

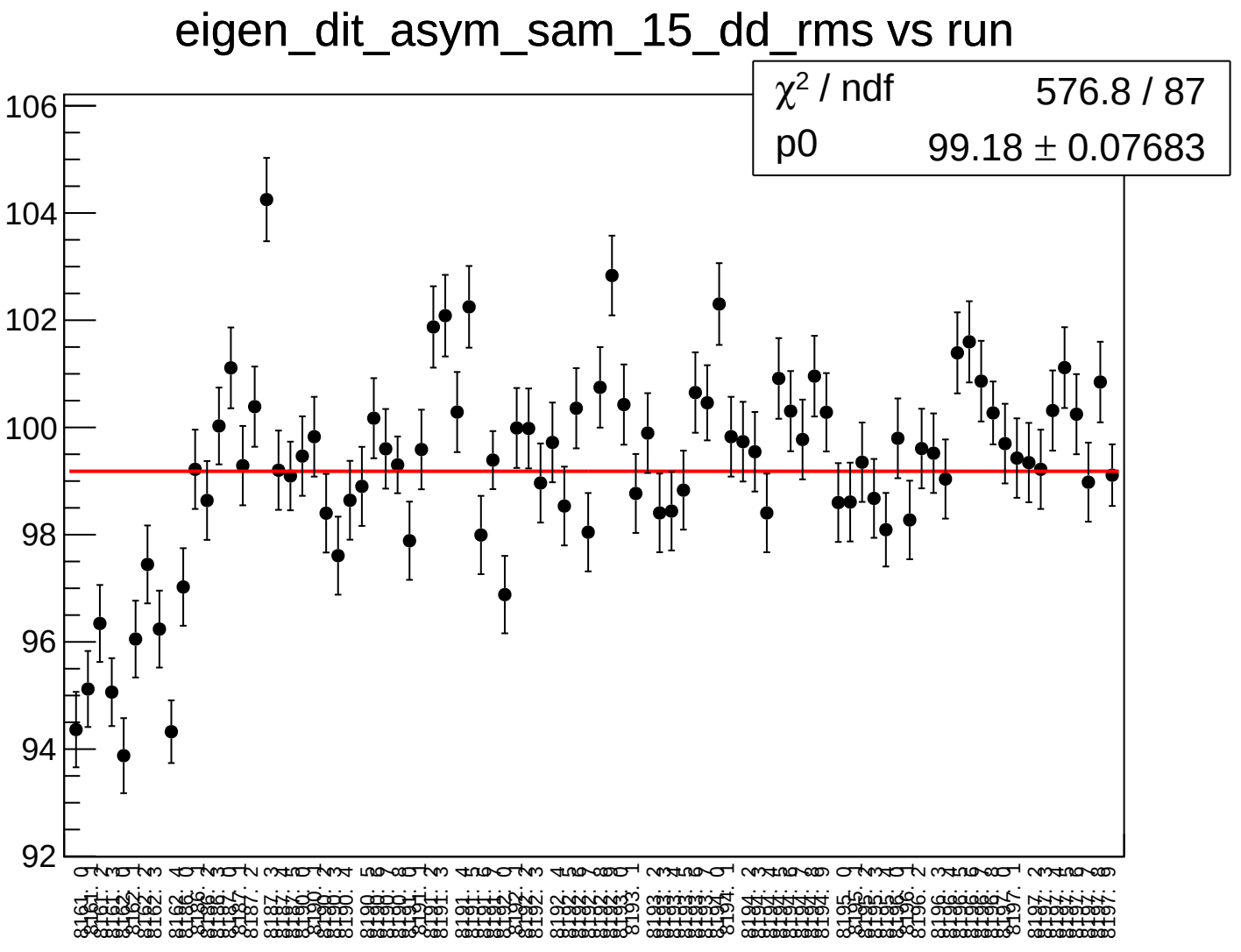

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 91.96 / 87
p0 2302 ± 923.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 114.8
Std Dev 0
3
2
1
0
−1
−2

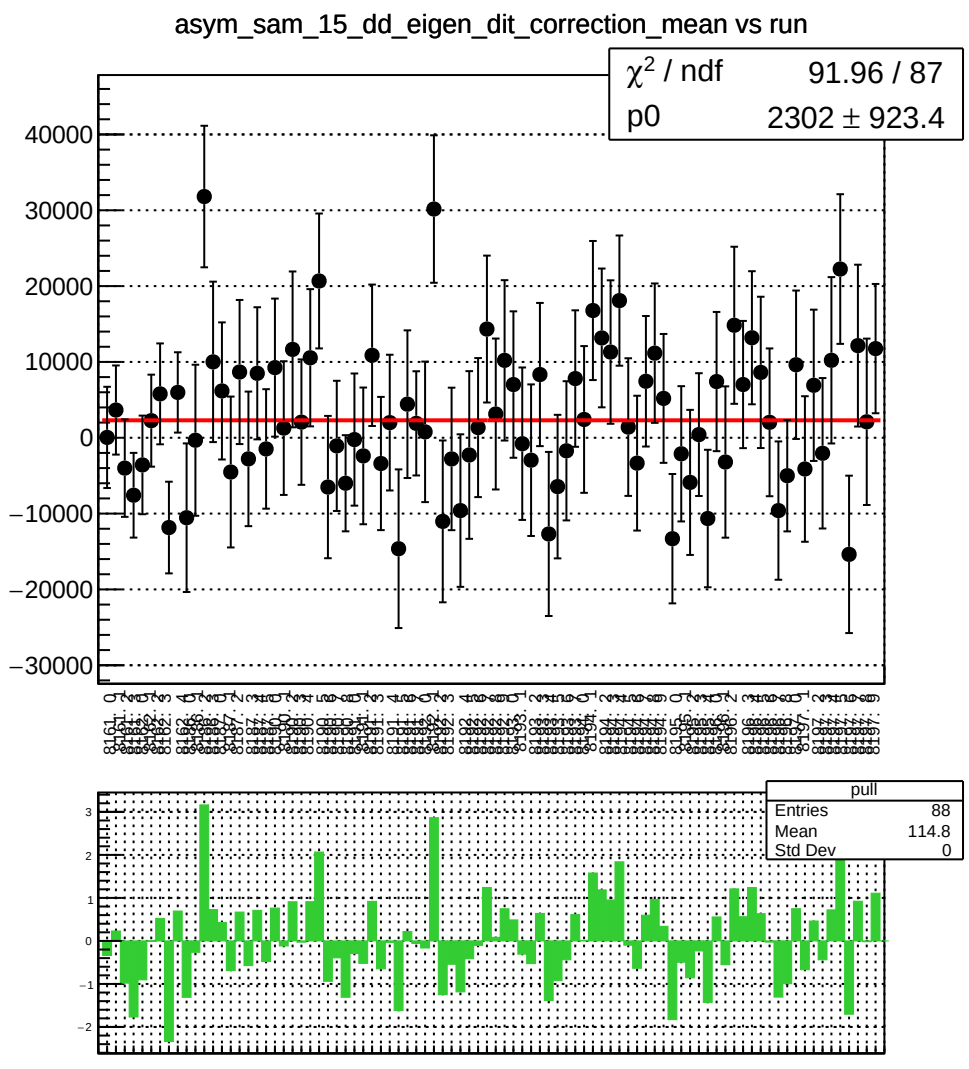

pull1D
Entries 88
Mean 0.03572
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

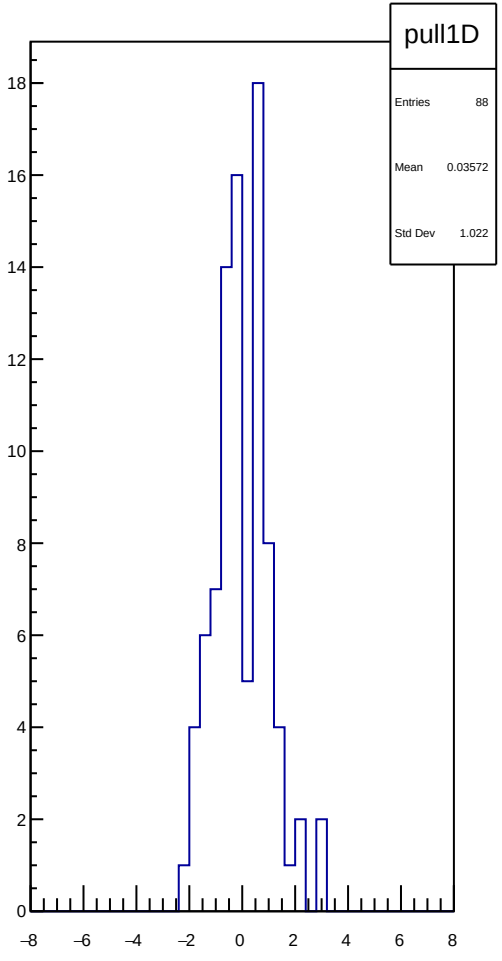

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 4.206e+04 / 87
p0 832.3 ± 0.6529
1100
1000
900
800
700
600

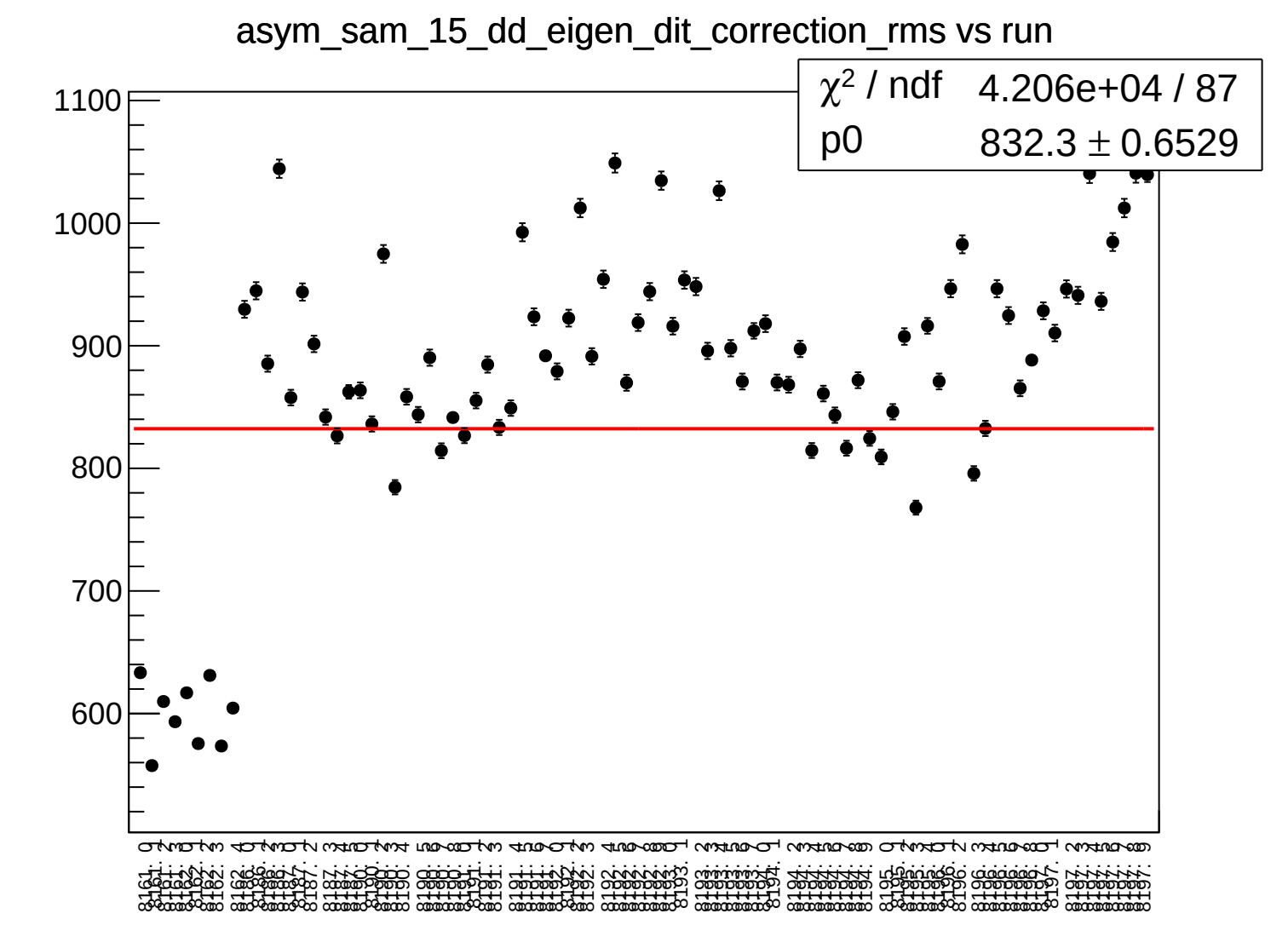

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 77.51 / 87
p0 36.03 ± 108.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −154.9
Std Dev 0
2
1
0
−1
−2

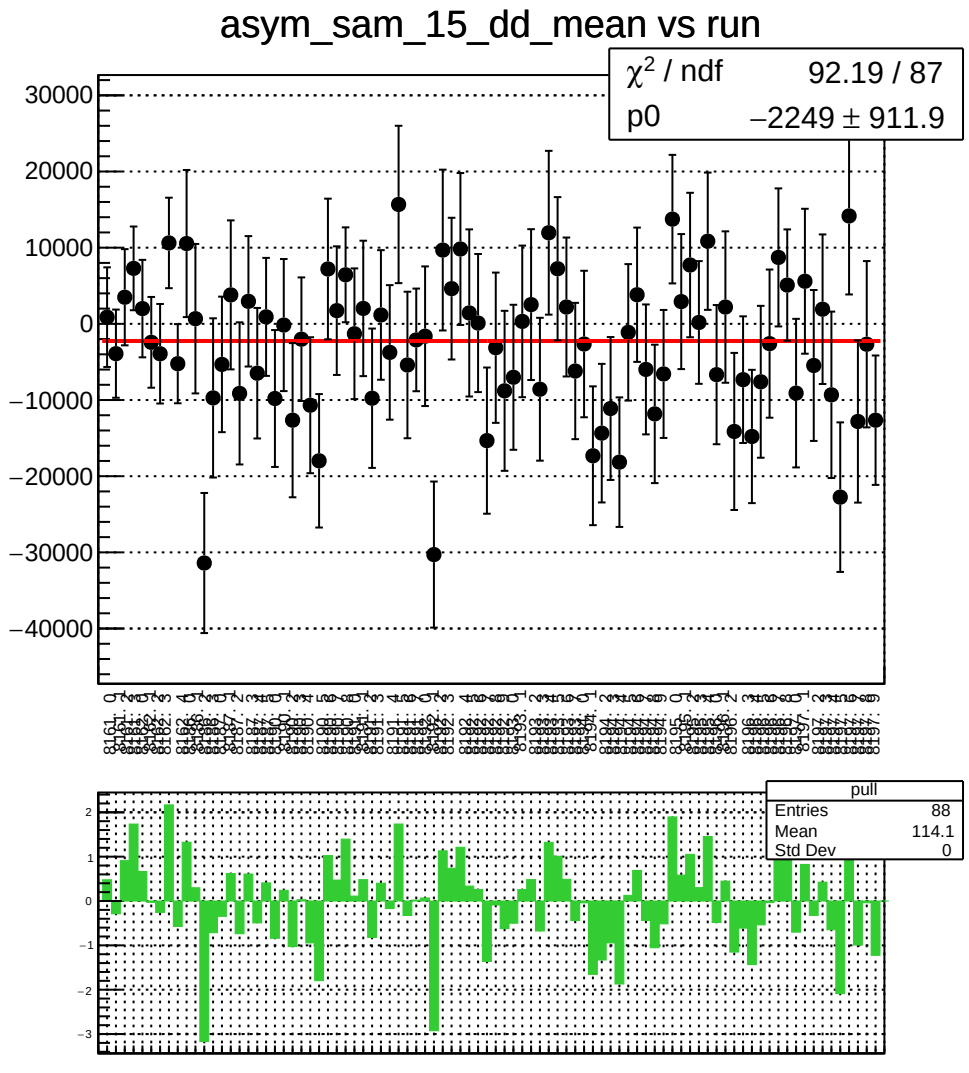

pull1D
Entries 88
Mean 0.002398
Std Dev 0.9385
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

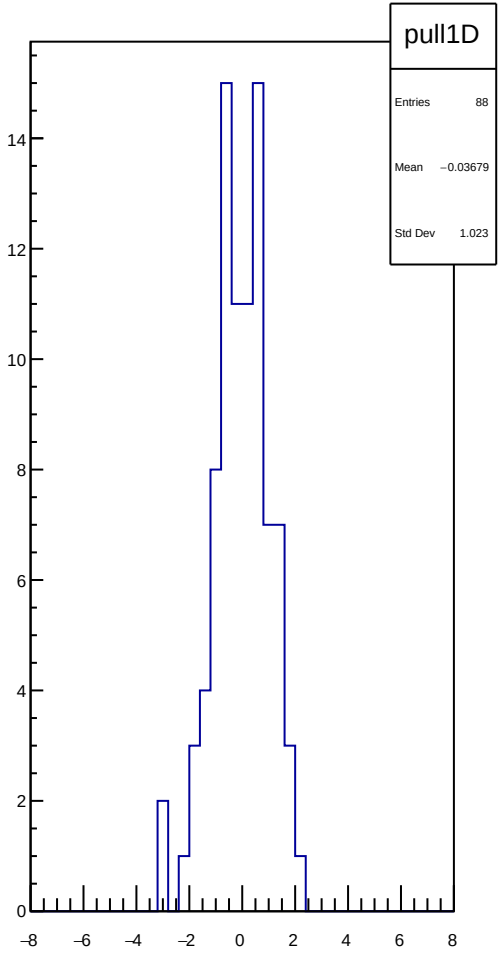

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 576.8 / 87
p0 99.18 ± 0.07683
106
104
102
100
98
96
94
92

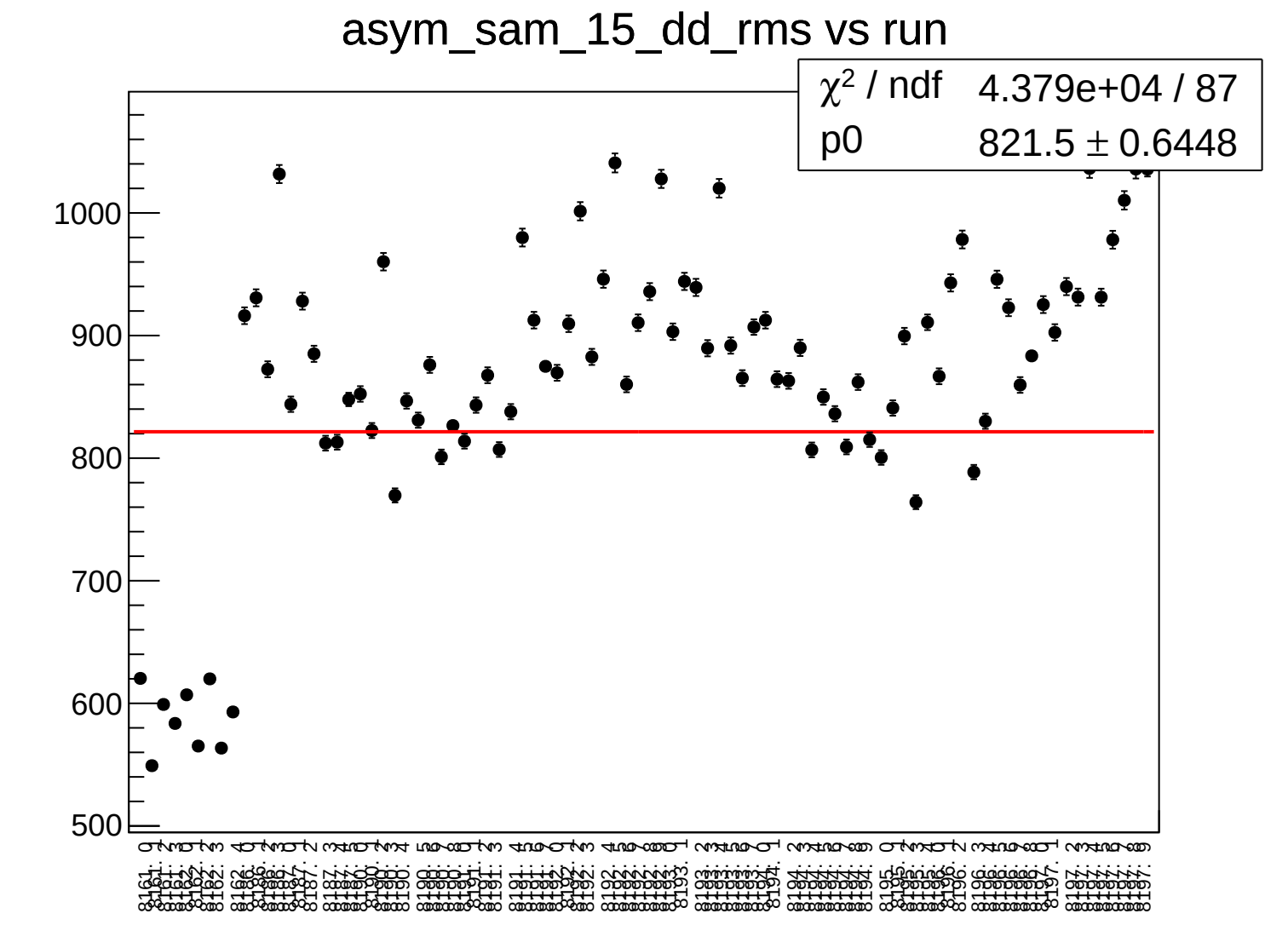

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 91.96 / 87
p0 2302 ± 923.4
pull
Entries 88
Mean 114.8
Std Dev 0

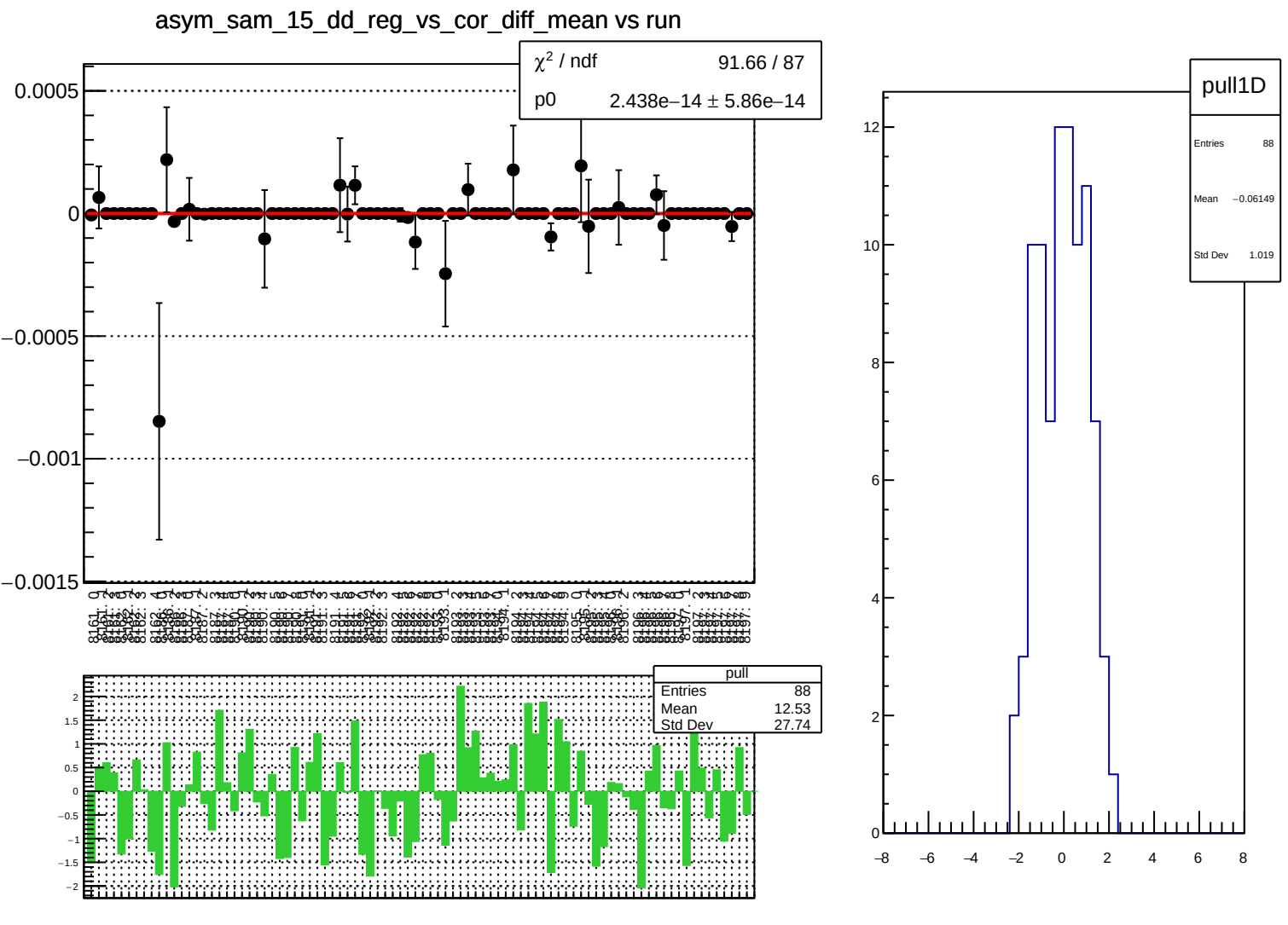

pull1D
Entries 88
Mean 0.03572
Std Dev 1.022

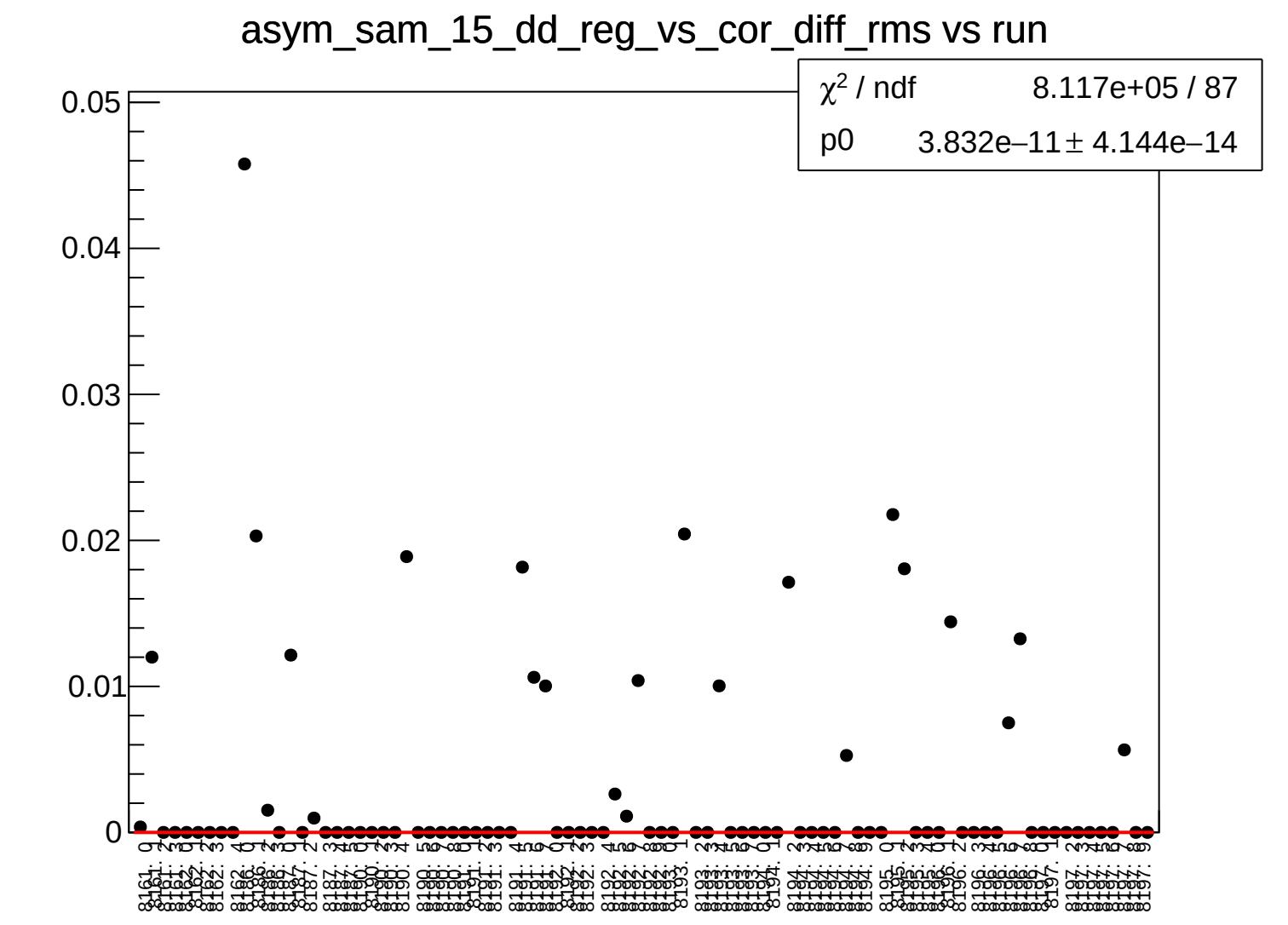

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.206e+04 / 87
p0 832.3 ± 0.6529
1100
1000
900
800
700
600

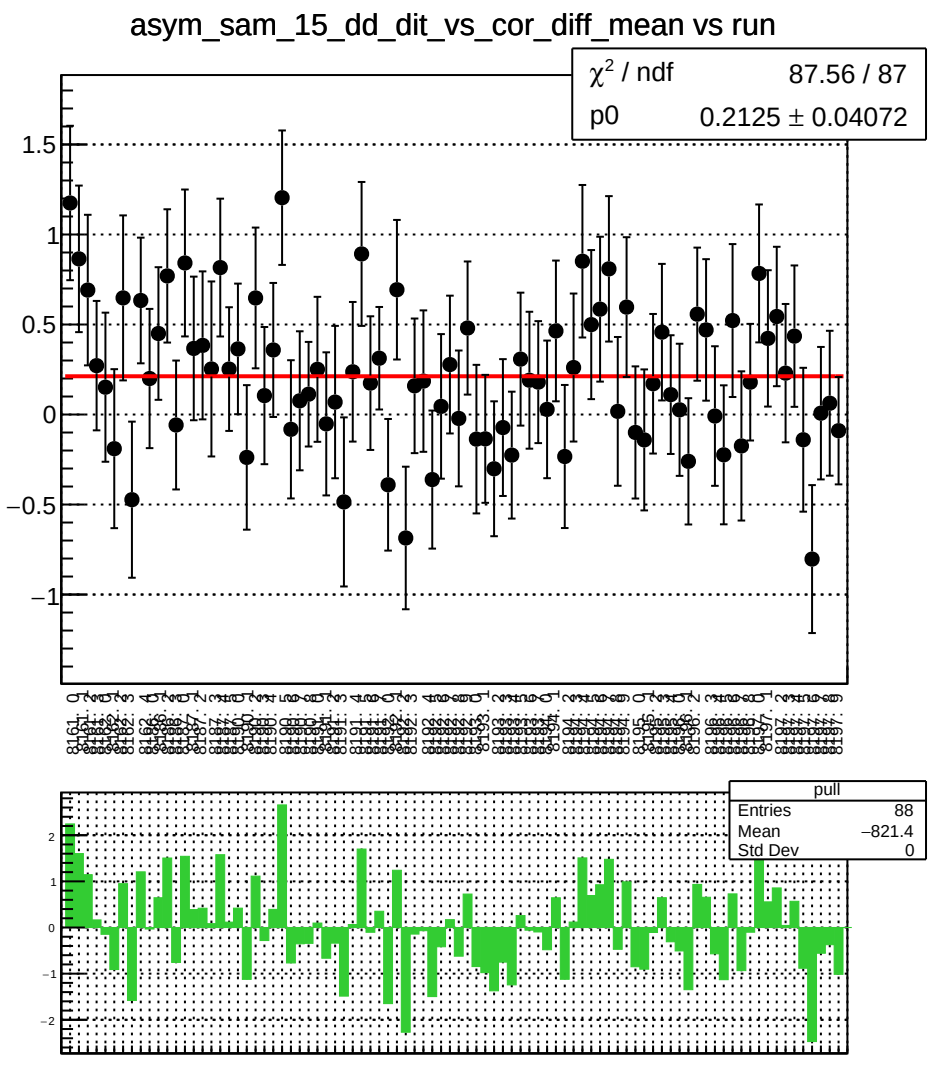

asym_sam_15_dd_mean vs run
χ² / ndf 92.19 / 87
p0 −2249 ± 911.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 114.1
Std Dev 0
2
1
0
−1
−2
−3

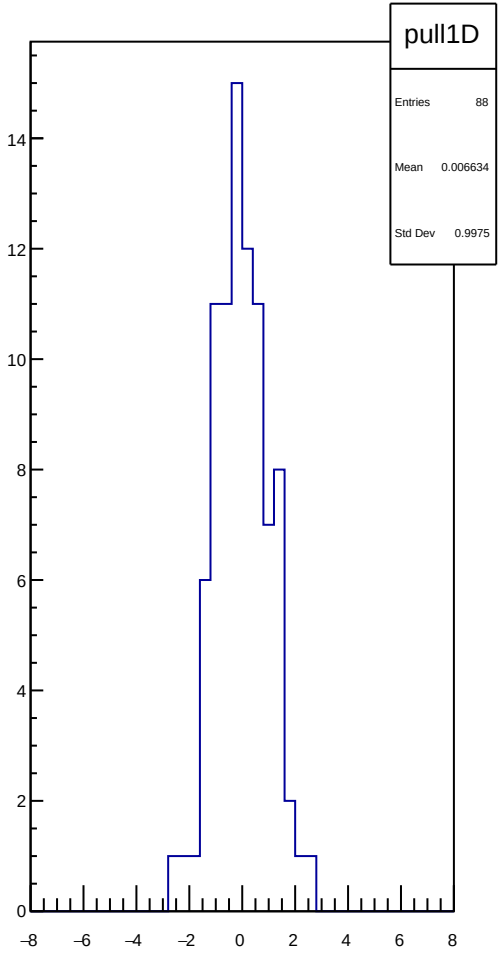

pull1D
Entries 88
Mean −0.03679
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

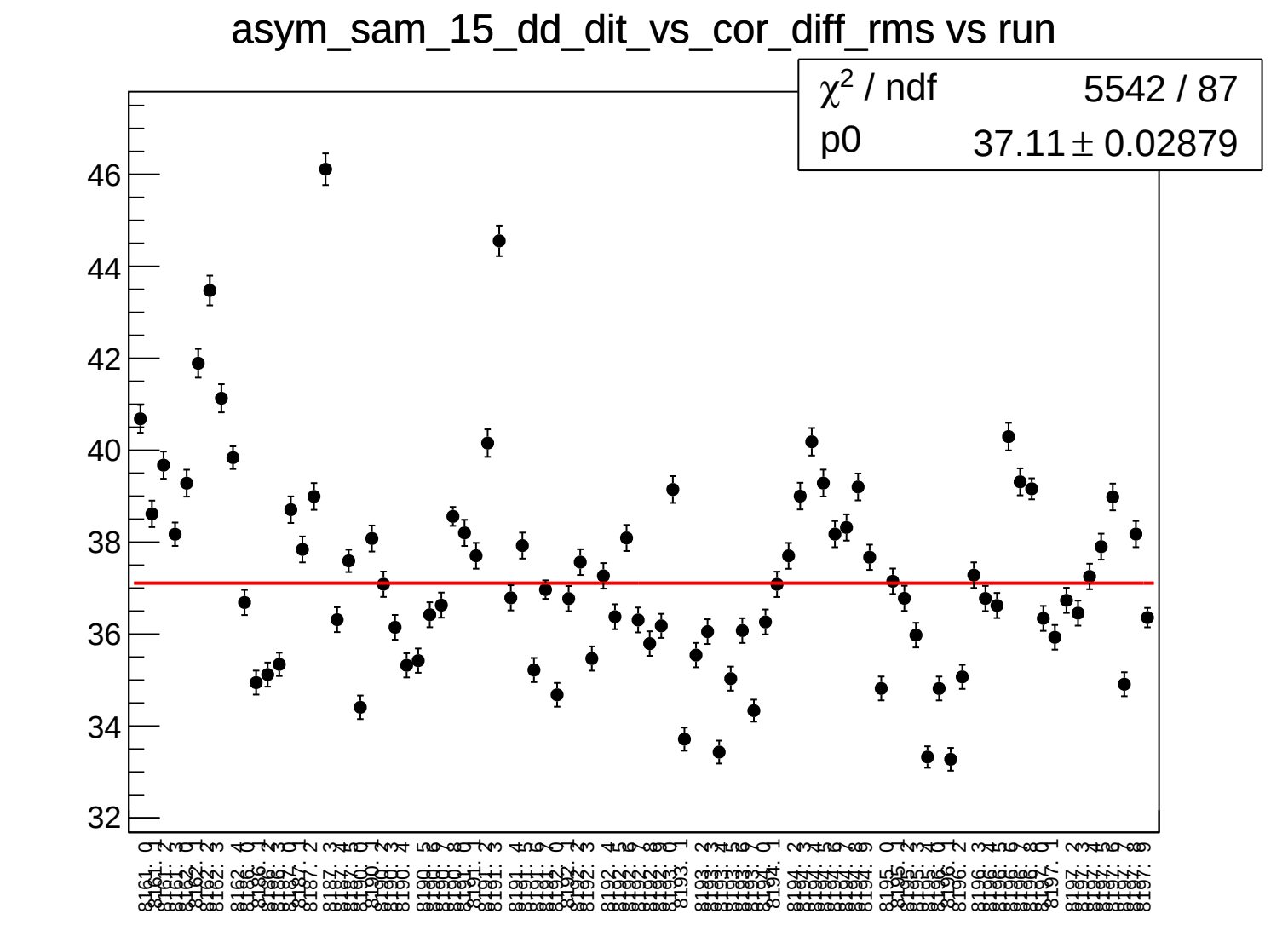

asym_sam_15_dd_rms vs run
χ² / ndf 4.379e+04 / 87
p0 821.5 ± 0.6448
1000
900
800
700
600
500

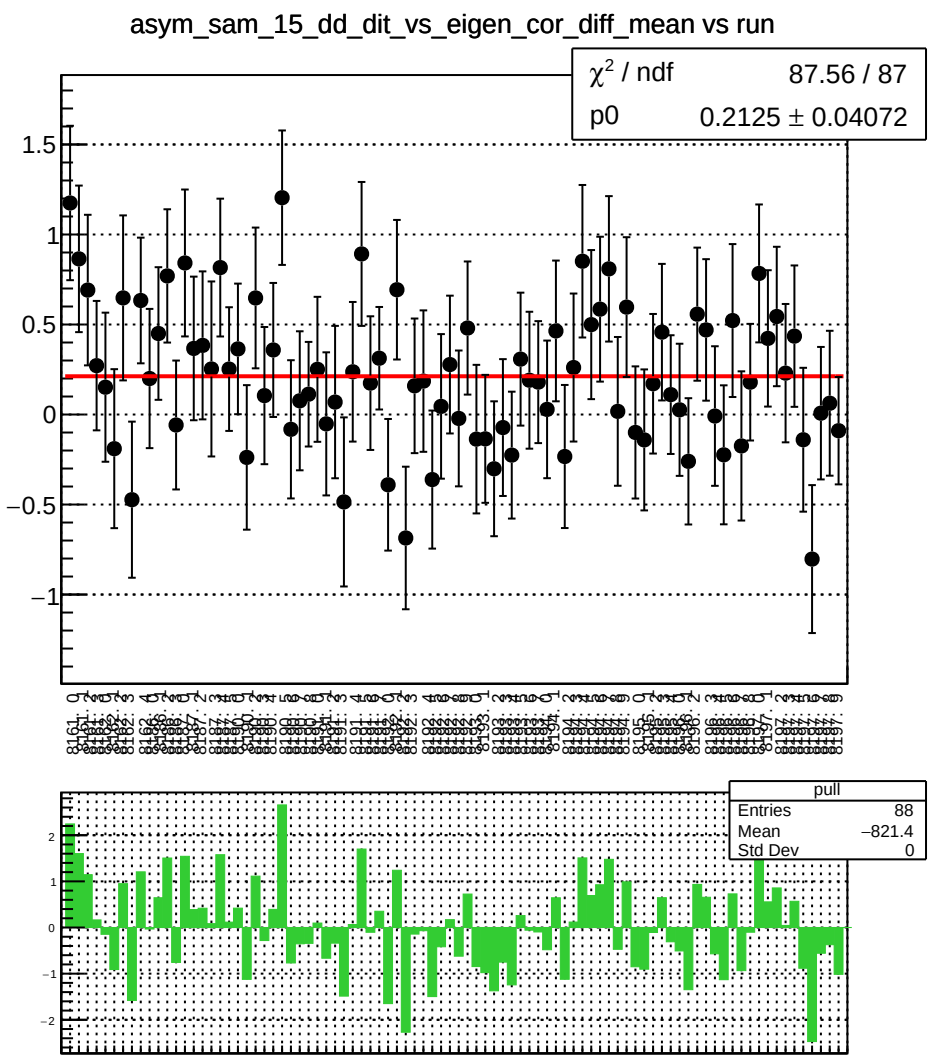

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.66 / 87
p0 2.438e−14 ± 5.86e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 12.53
Std Dev 27.74
pull1D
Entries 88
Mean −0.06149
Std Dev 1.019

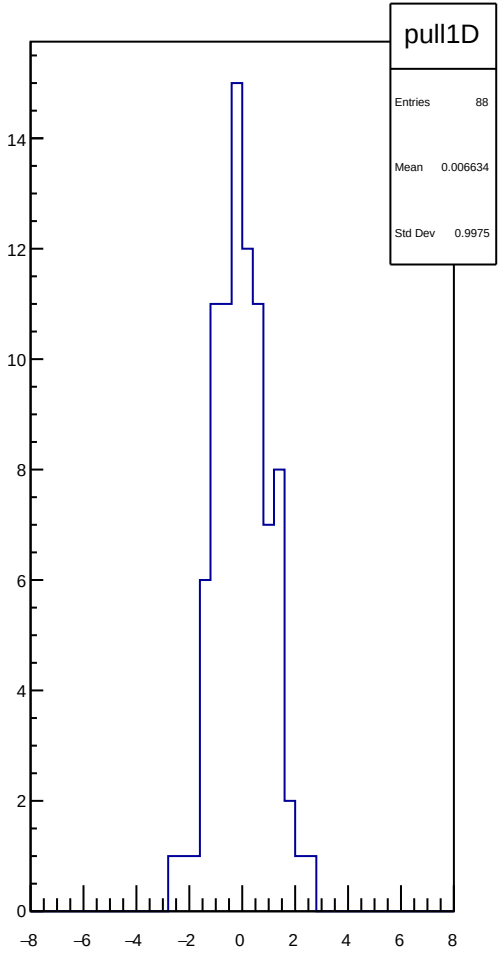

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.117e+05 / 87
p0 3.832e−11 ± 4.144e−14
0.05
0.04
0.03
0.02
0.01
0

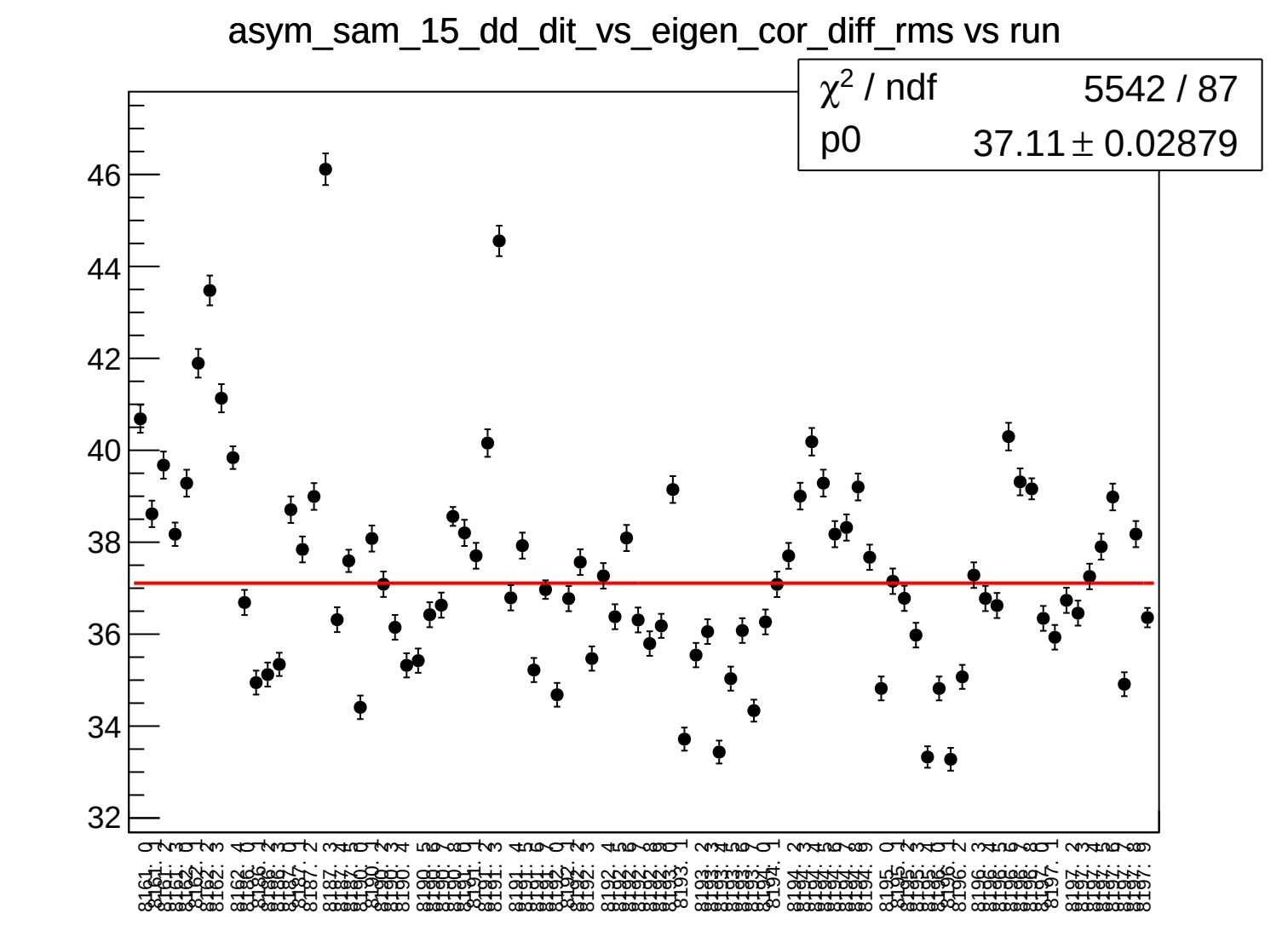

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.56 / 87
p0 0.2125 ± 0.04072
pull
Entries 88
Mean −821.4
Std Dev 0

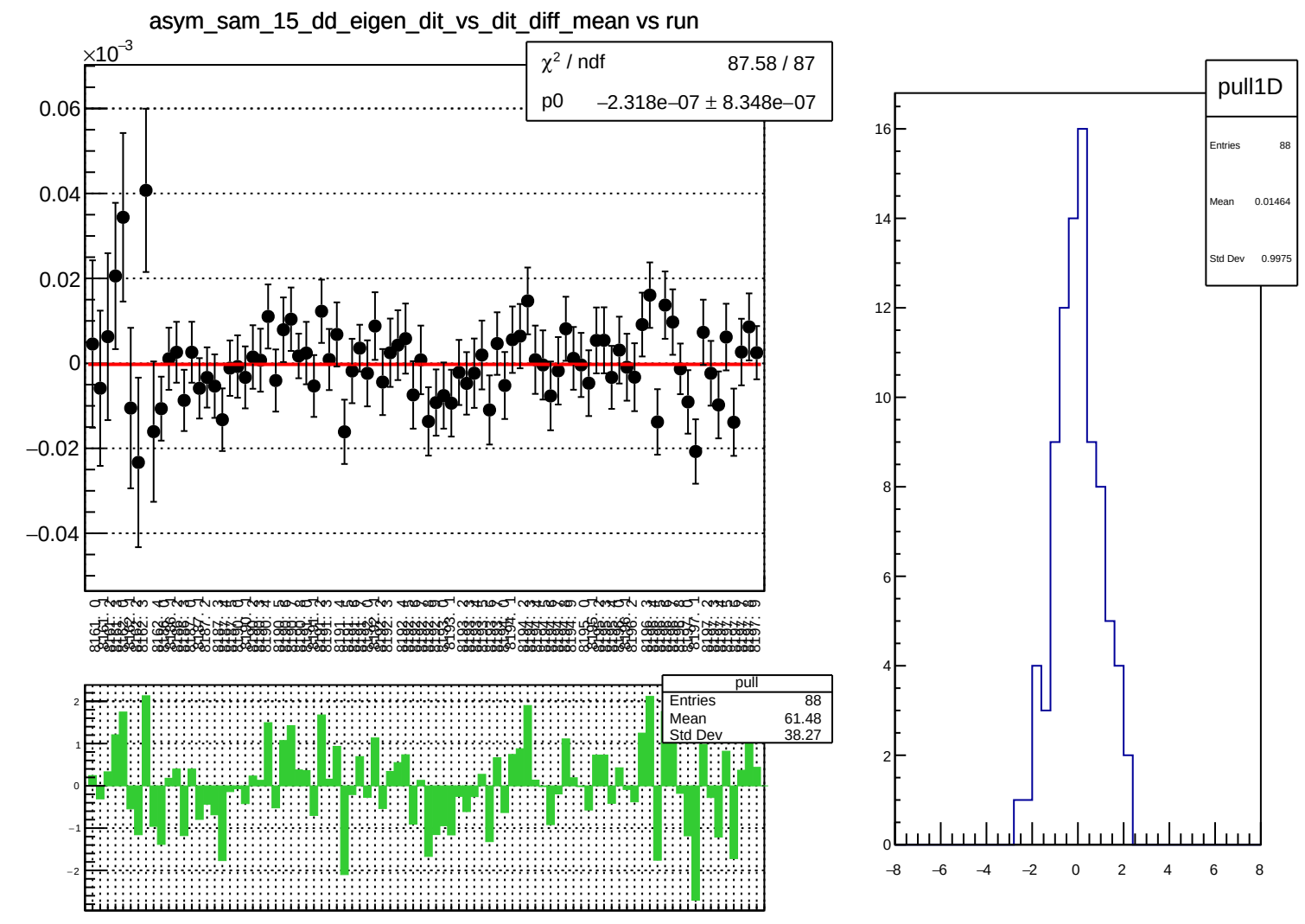

pull1D
Entries 88
Mean 0.006634
Std Dev 0.9975

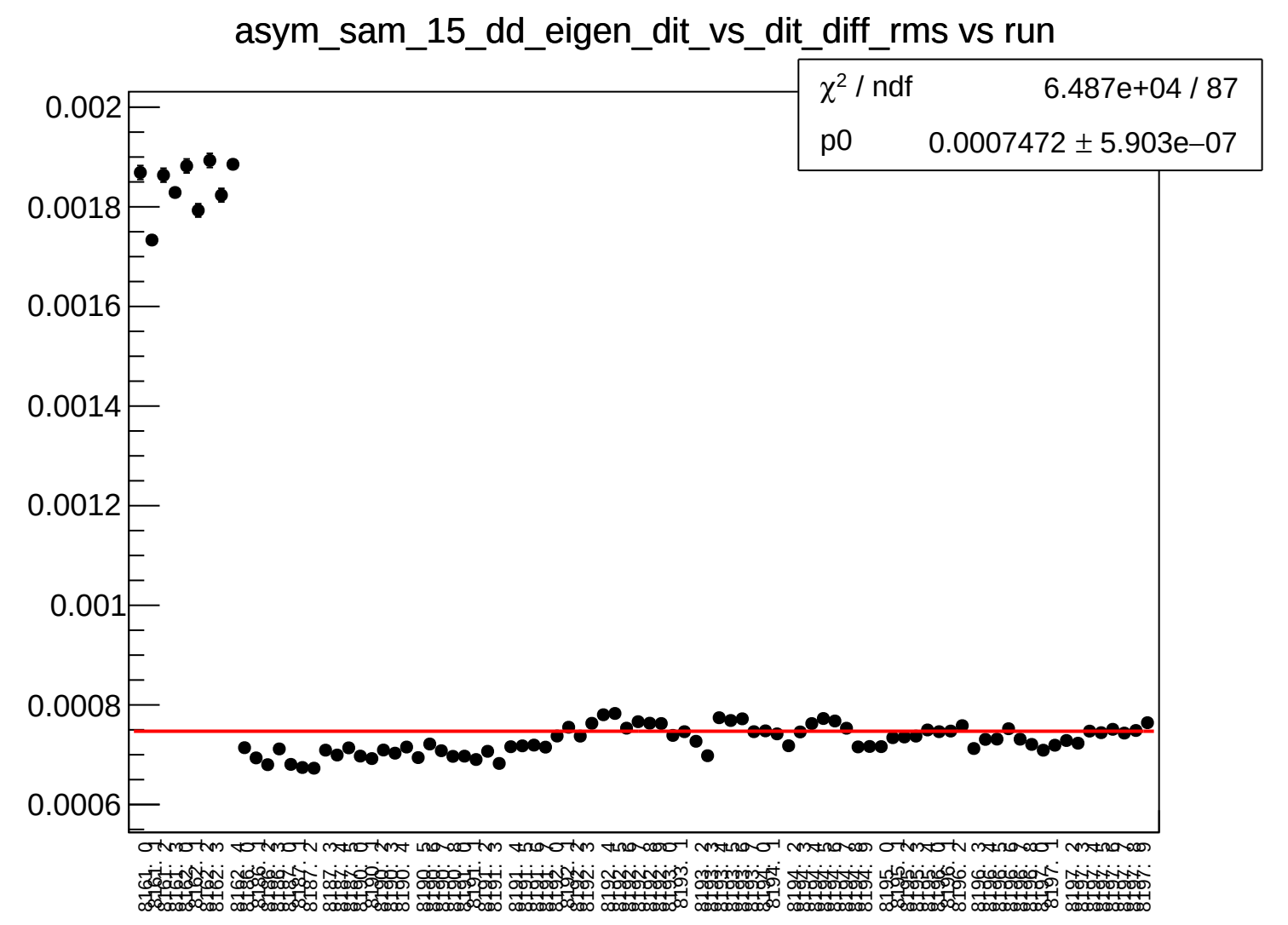

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5542 / 87
p0 37.11 ± 0.02879
46
44
42
40
38
36
34
32

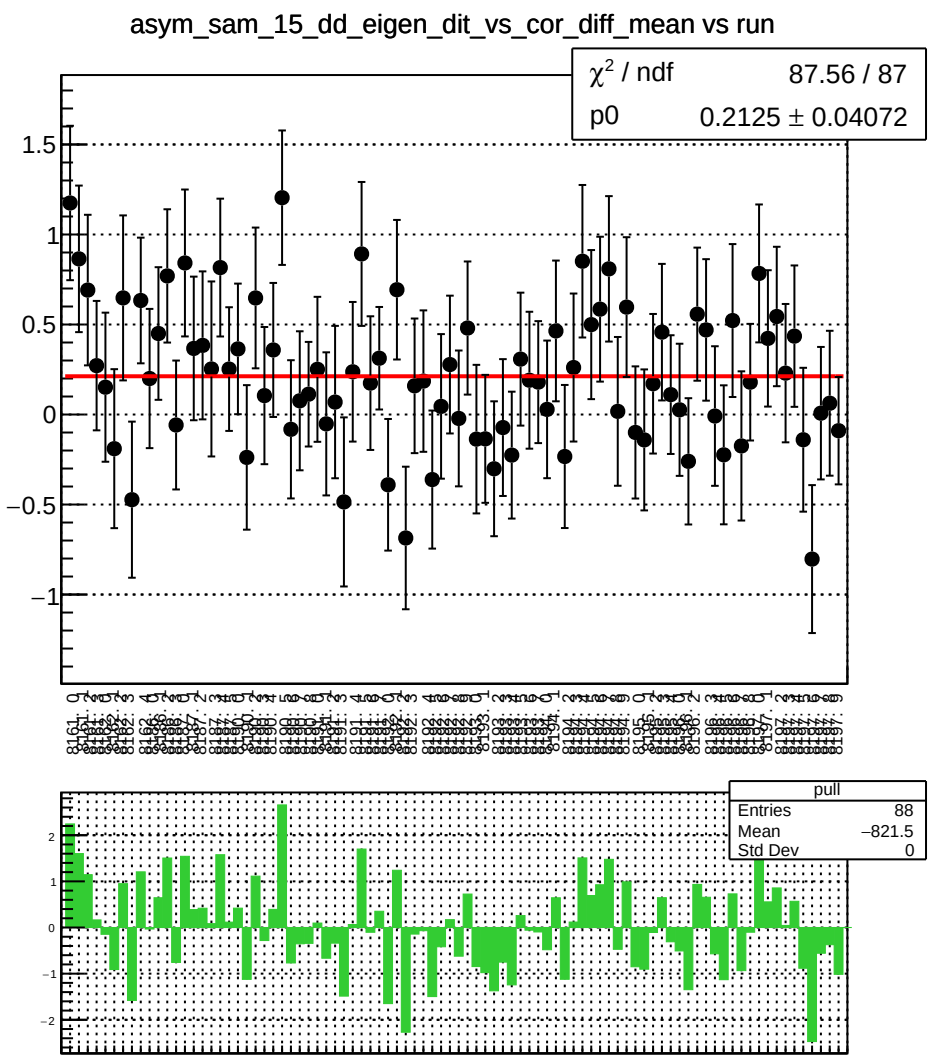

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.56 / 87
p0 0.2125 ± 0.04072
pull
Entries 88
Mean −821.4
Std Dev 0

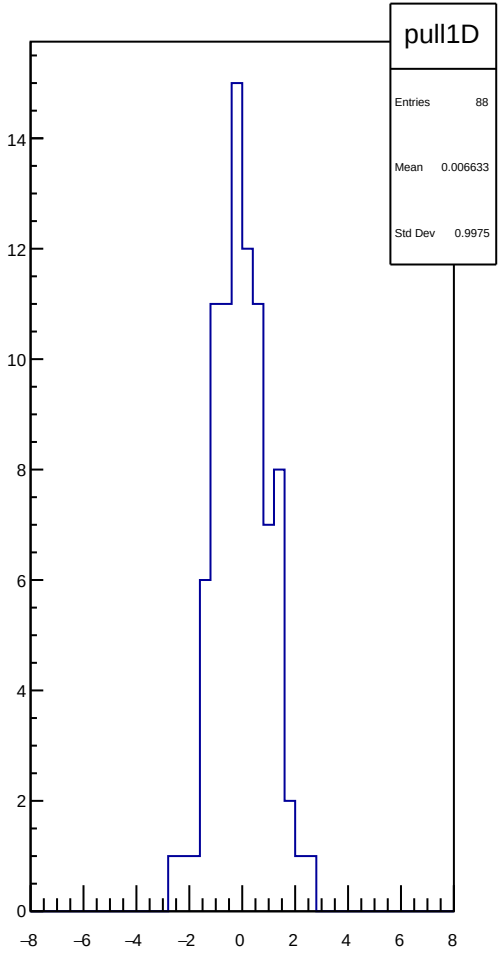

pull1D
Entries 88
Mean 0.006634
Std Dev 0.9975

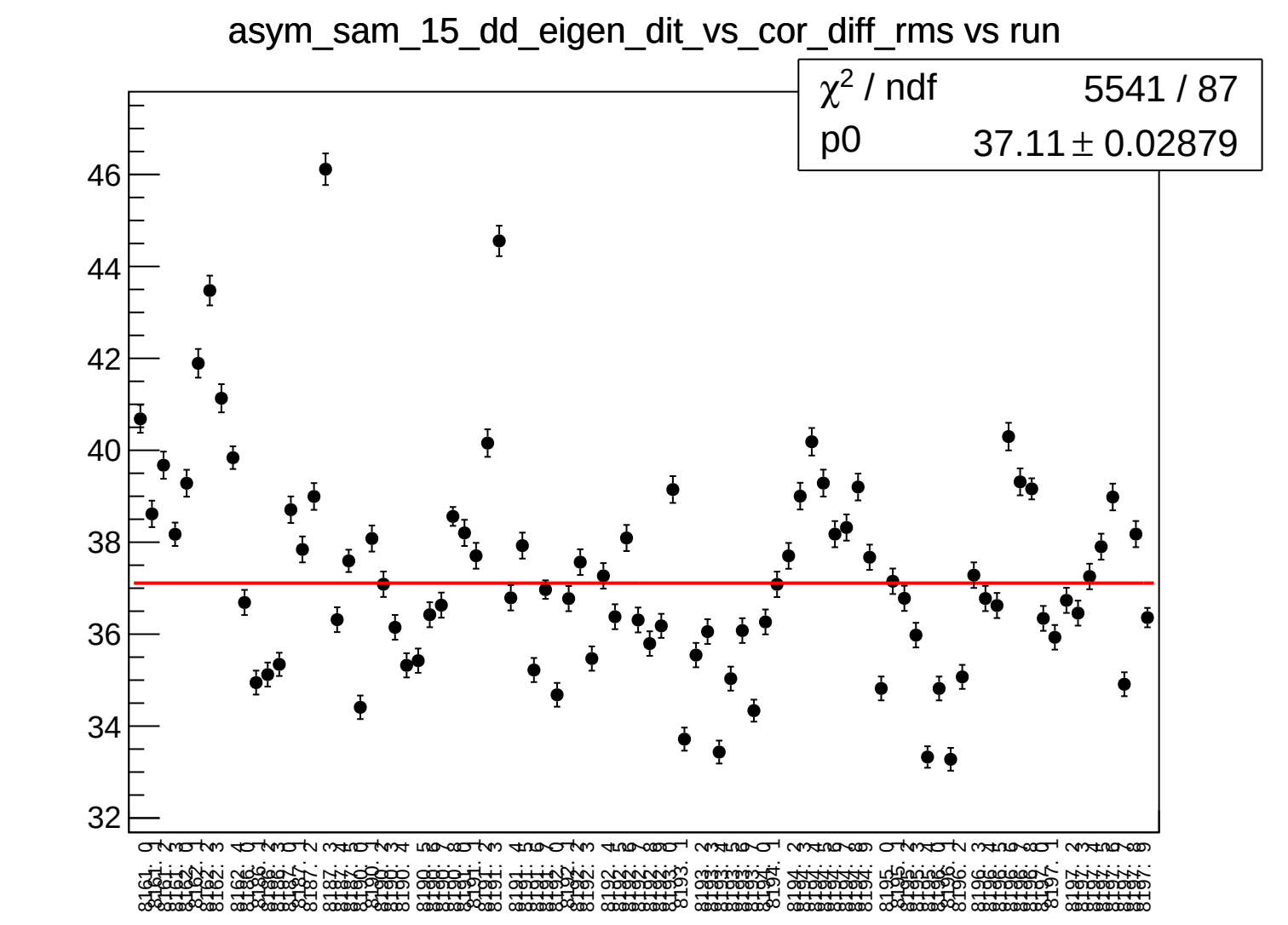

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5542 / 87
p0 37.11 ± 0.02879
46
44
42
40
38
36
34
32

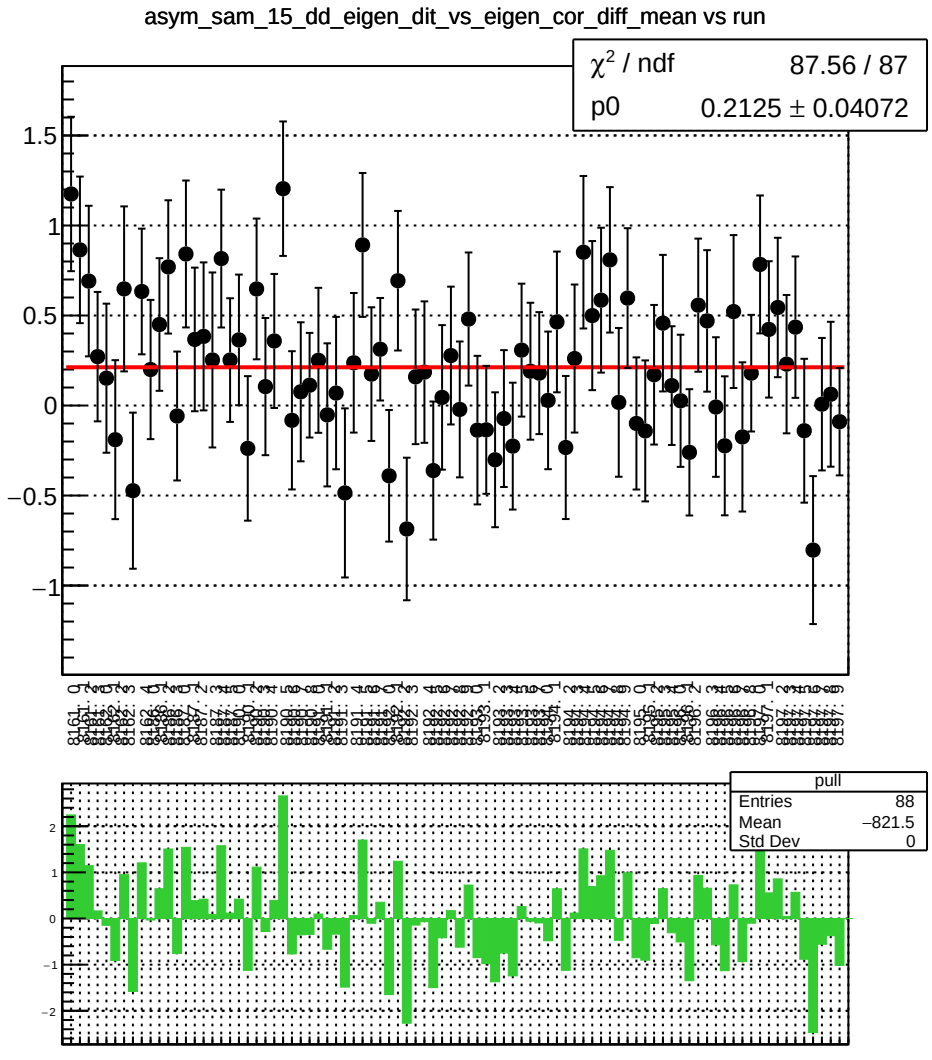

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.58 / 87
p0 −2.318e−07 ± 8.348e−07
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 61.48
Std Dev 38.27
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01464
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

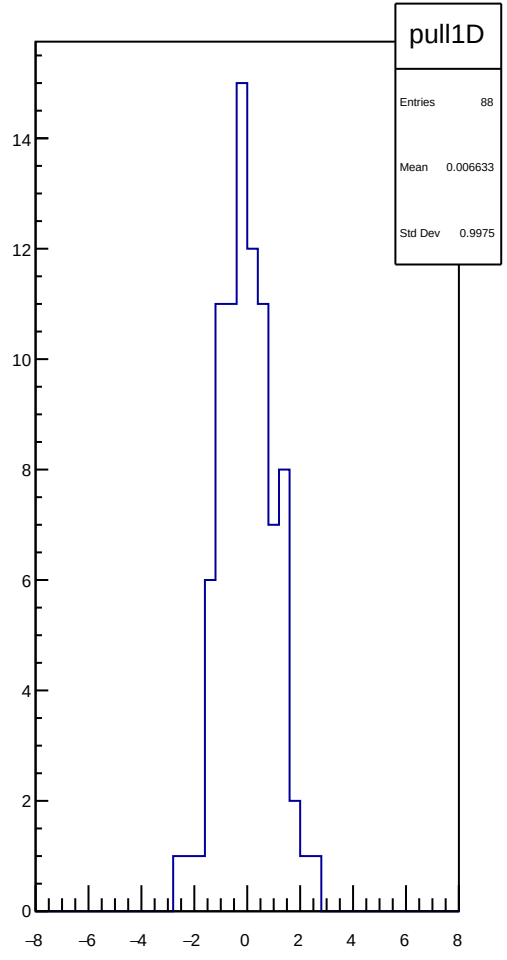

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.487e+04 / 87
p0 0.0007472 ± 5.903e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

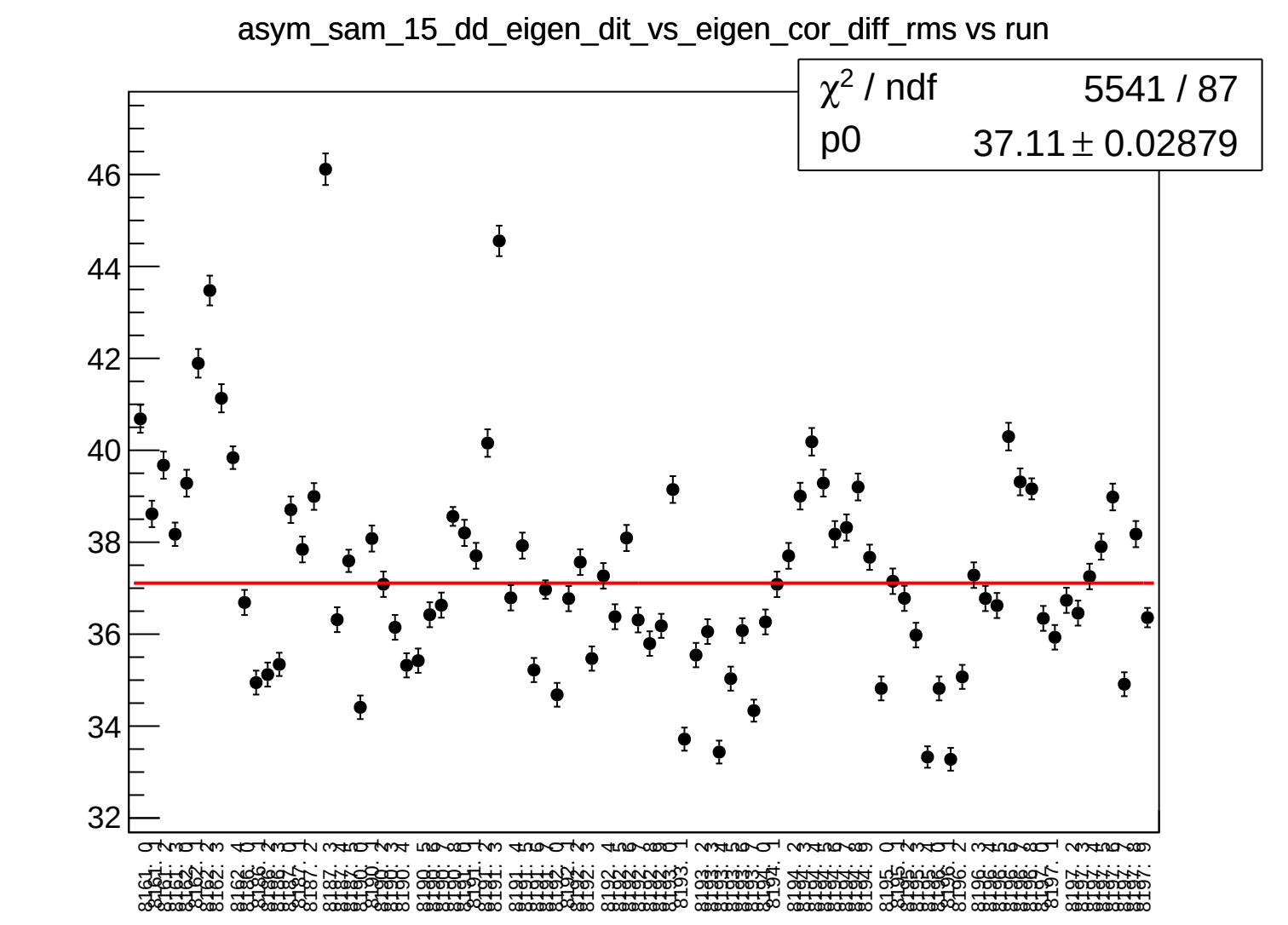

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.56 / 87
p0 0.2125 ± 0.04072
pull
Entries 88
Mean −821.5
Std Dev 0

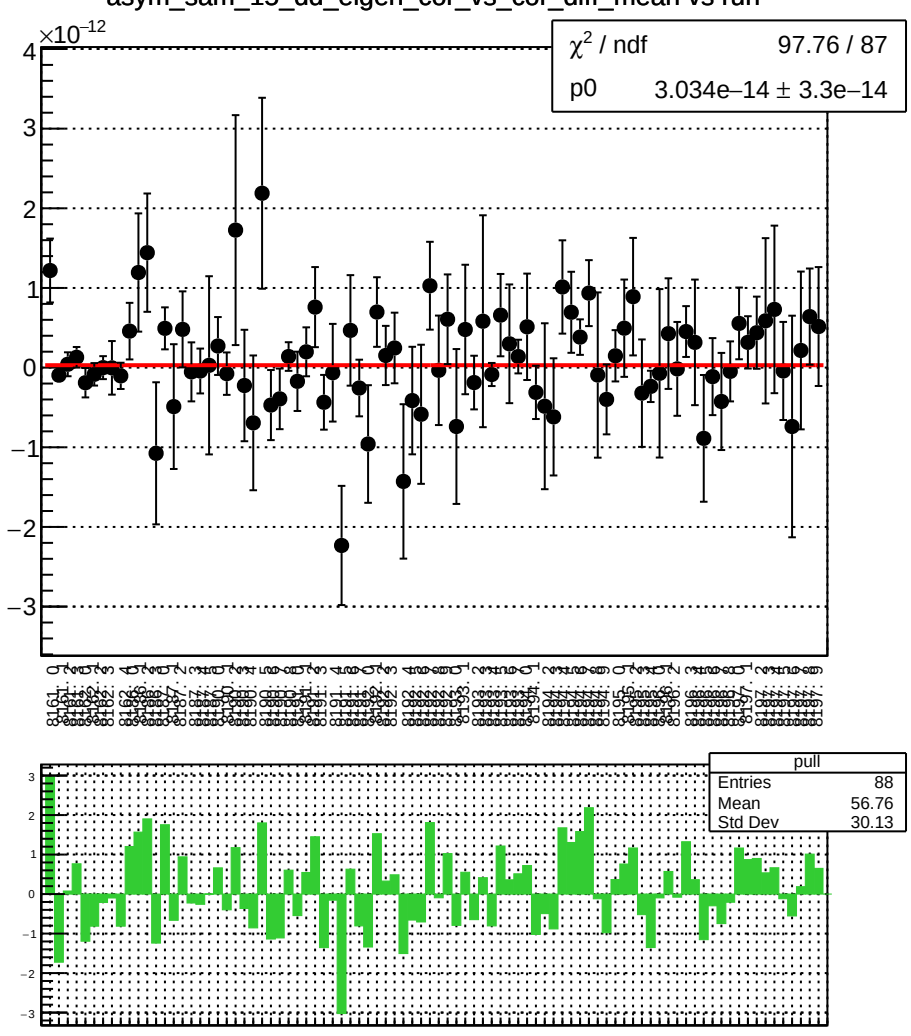

pull1D
Entries 88
Mean 0.006633
Std Dev 0.9975

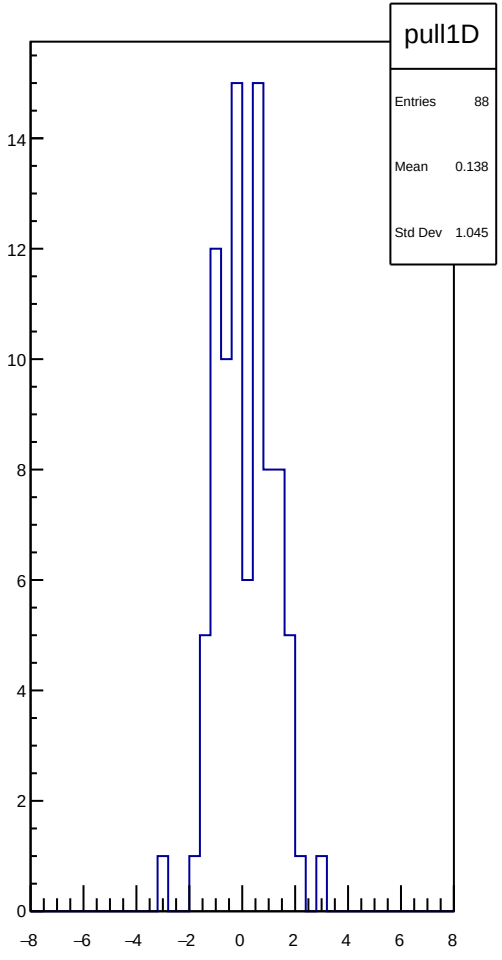

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5541 / 87
p0 37.11 ± 0.02879
46
44
42
40
38
36
34
32

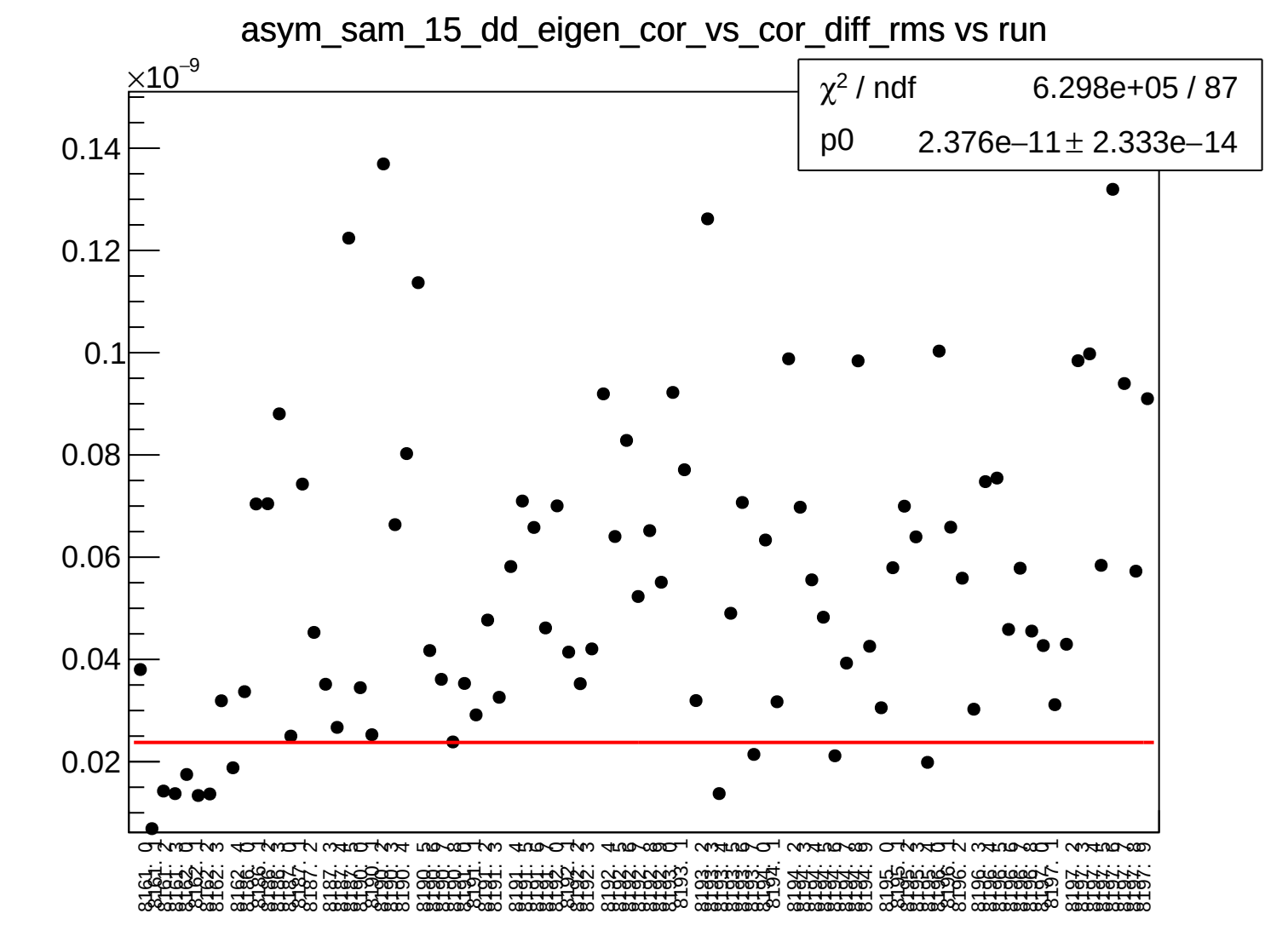

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.56 / 87
p0 0.2125 ± 0.04072
pull
Entries 88
Mean −821.5
Std Dev 0

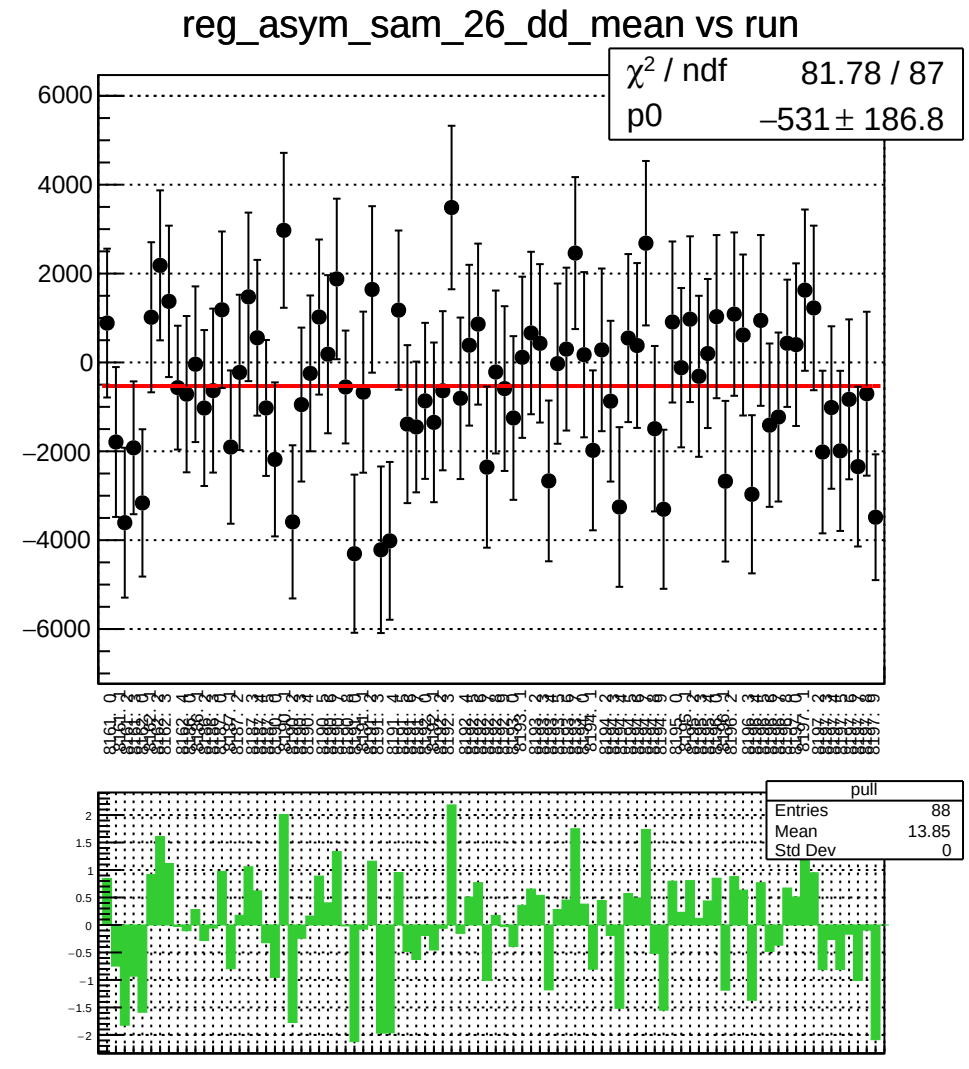

pull1D
Entries 88
Mean 0.006633
Std Dev 0.9975

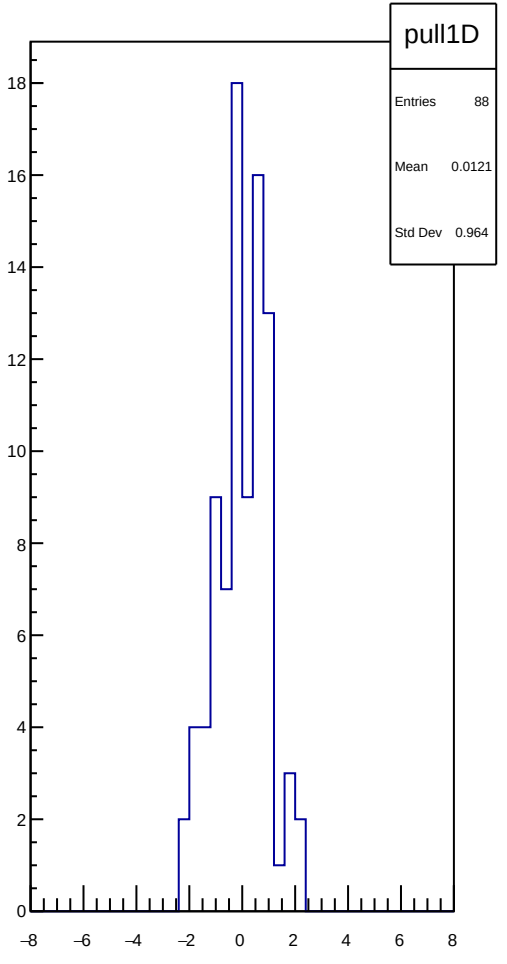

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5541 / 87
p0 37.11 ± 0.02879
46
44
42
40
38
36
34
32

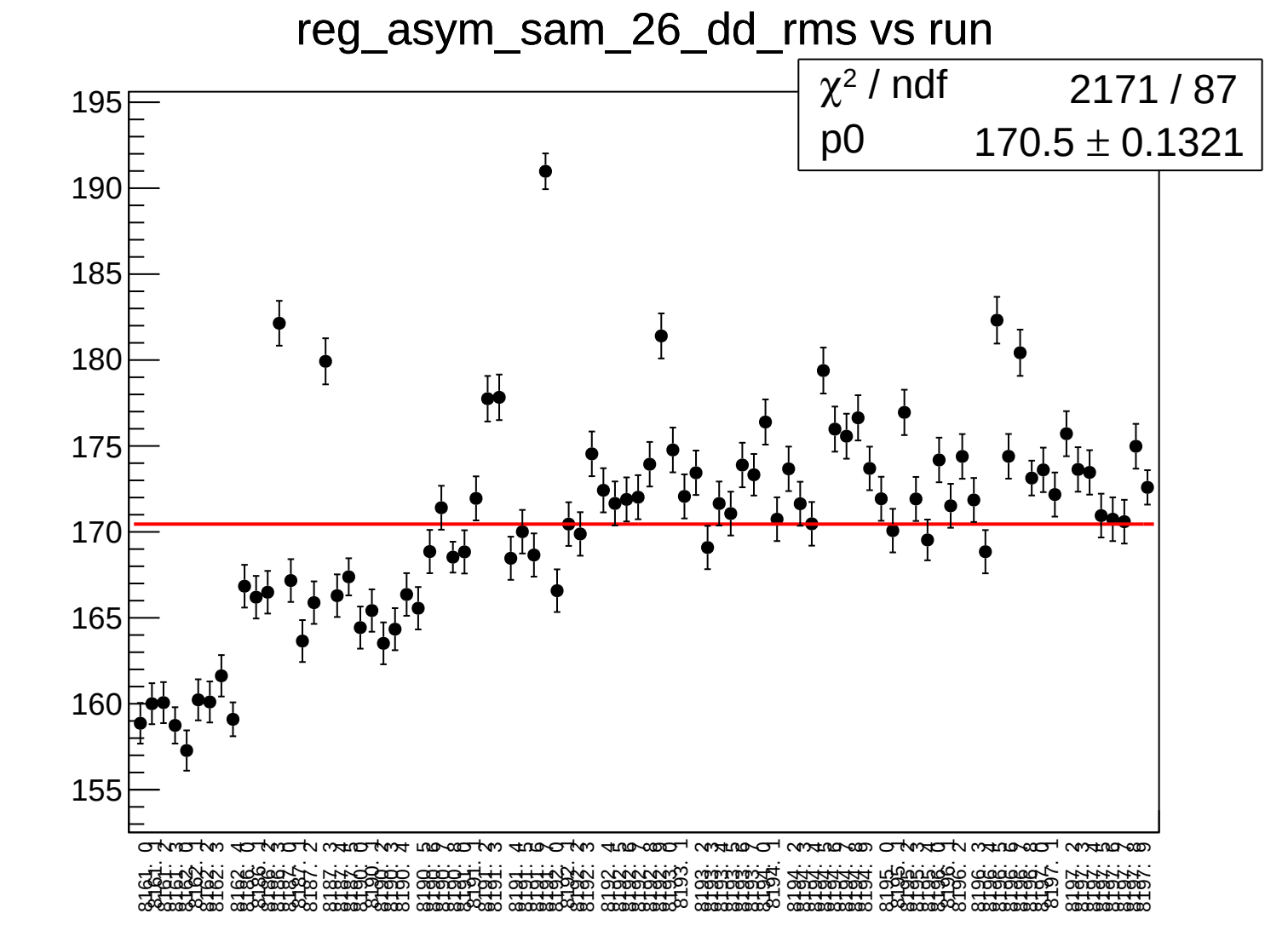

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.76 / 87
p0 3.034e−14 ± 3.3e−14
pull
Entries 88
Mean 56.76
Std Dev 30.13

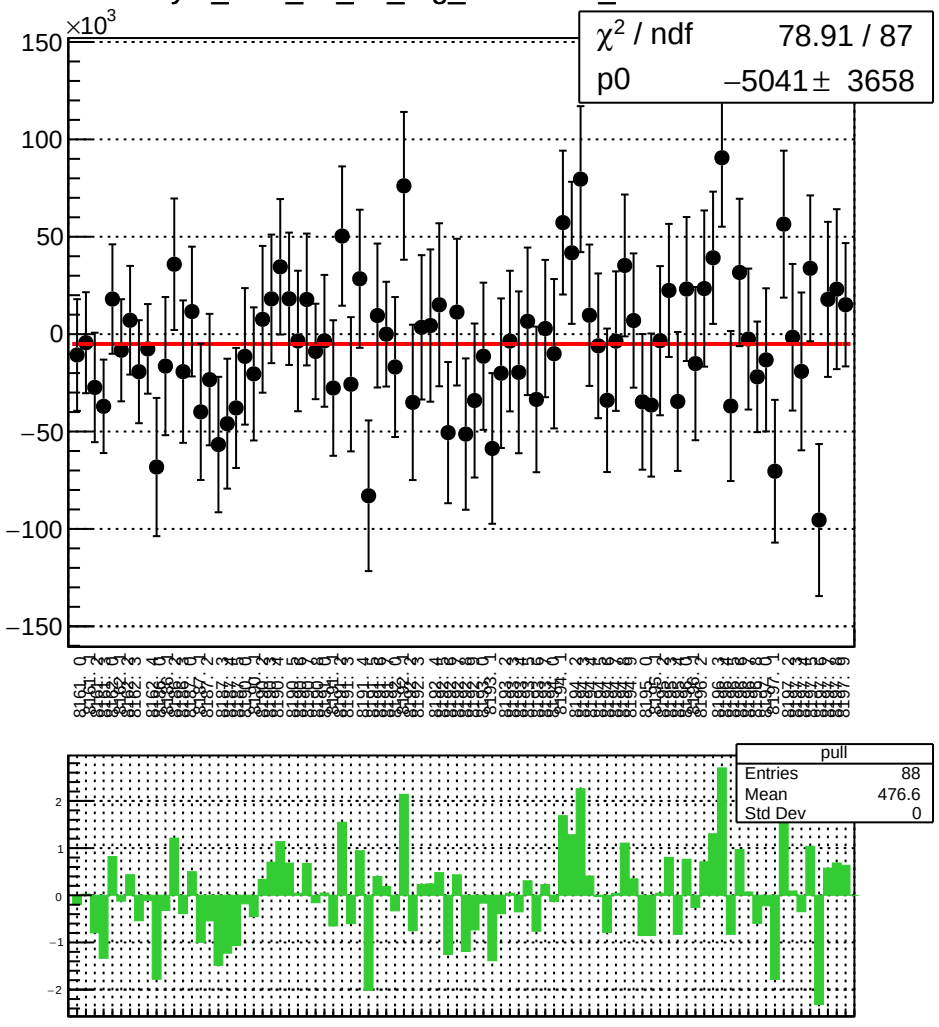

pull1D
Entries 88
Mean 0.138
Std Dev 1.045

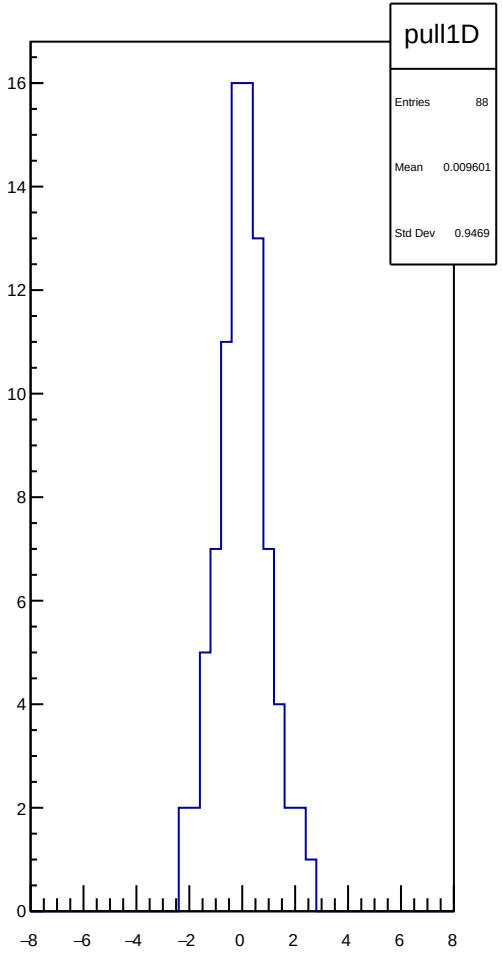

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.298e+05 / 87
p0 2.376e−11 ± 2.333e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

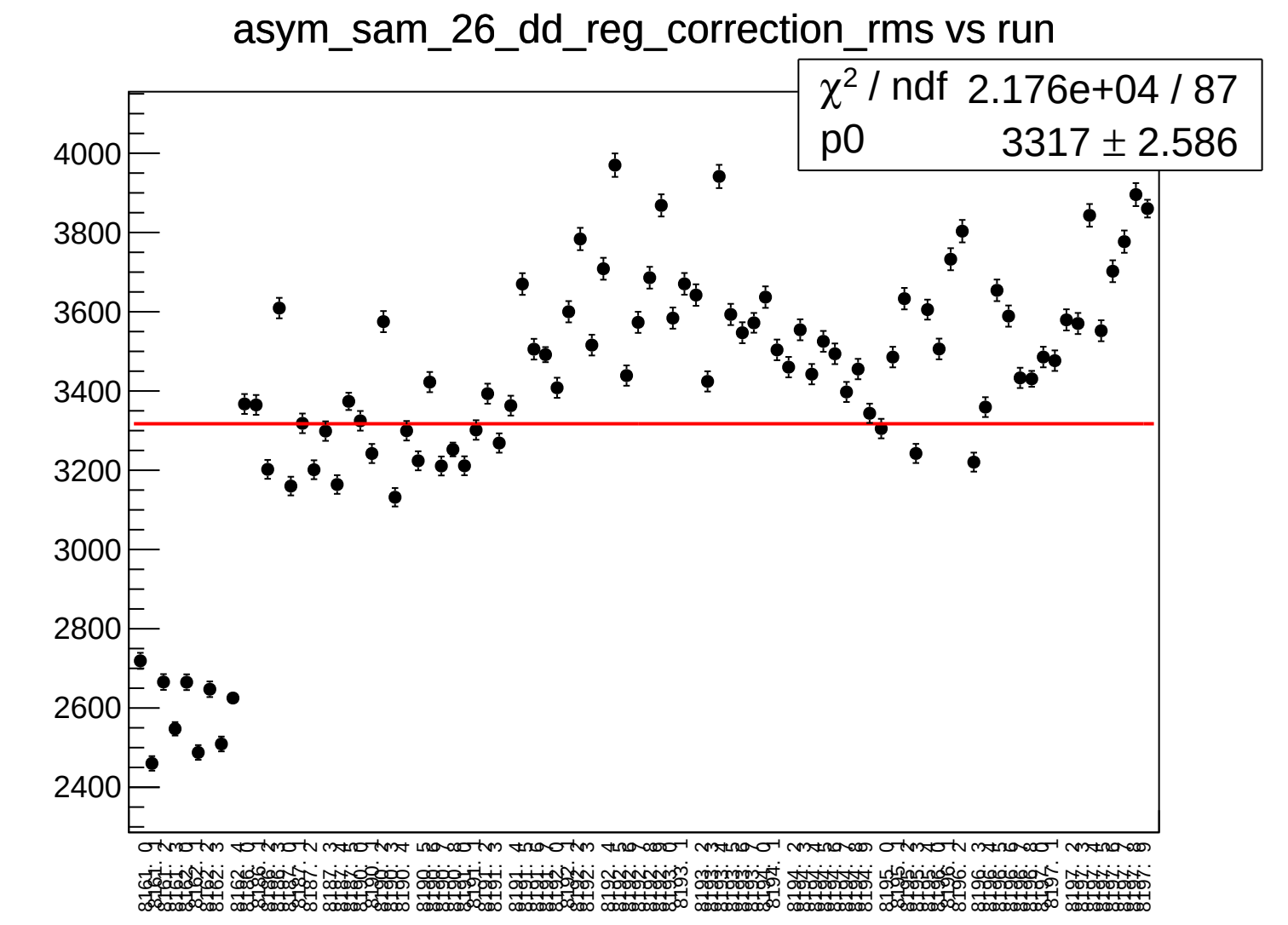

reg_asym_sam_26_dd_mean vs run
χ² / ndf 81.78 / 87
p0 −531 ± 186.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 13.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

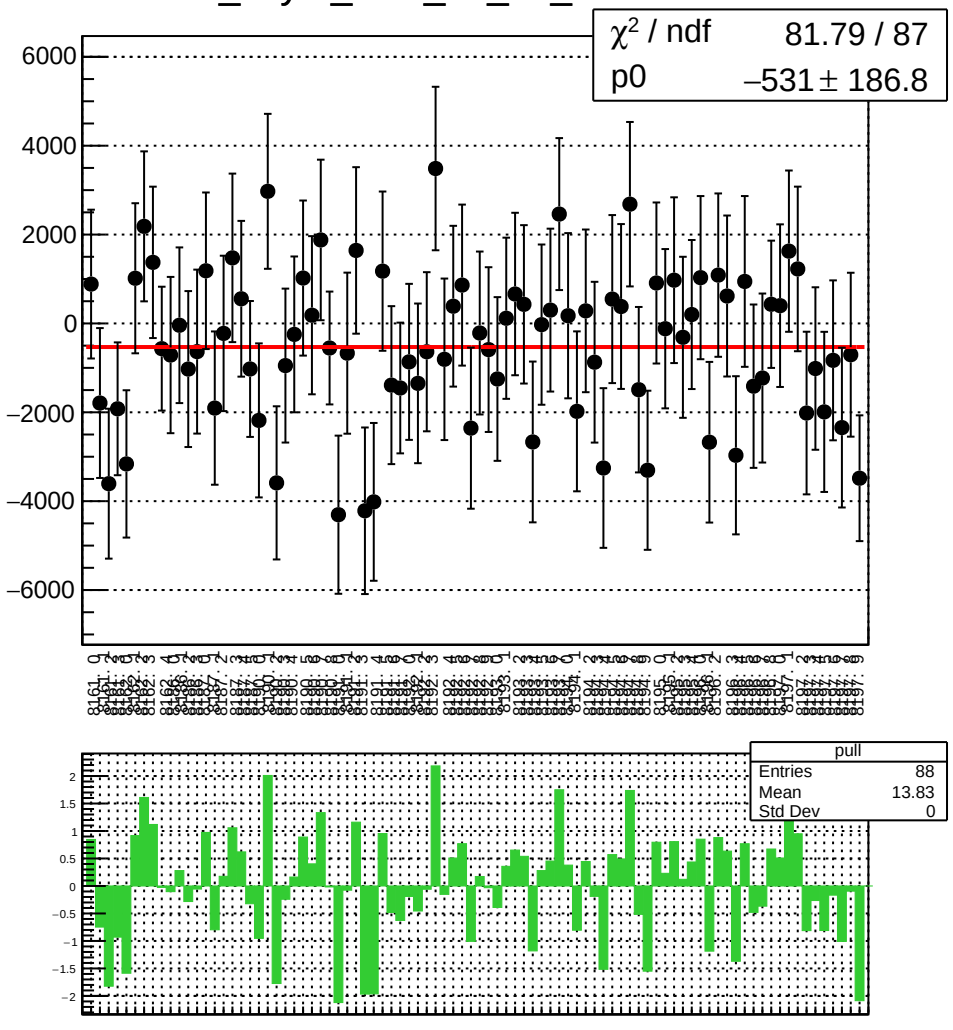

pull1D
Entries 88
Mean 0.0121
Std Dev 0.964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

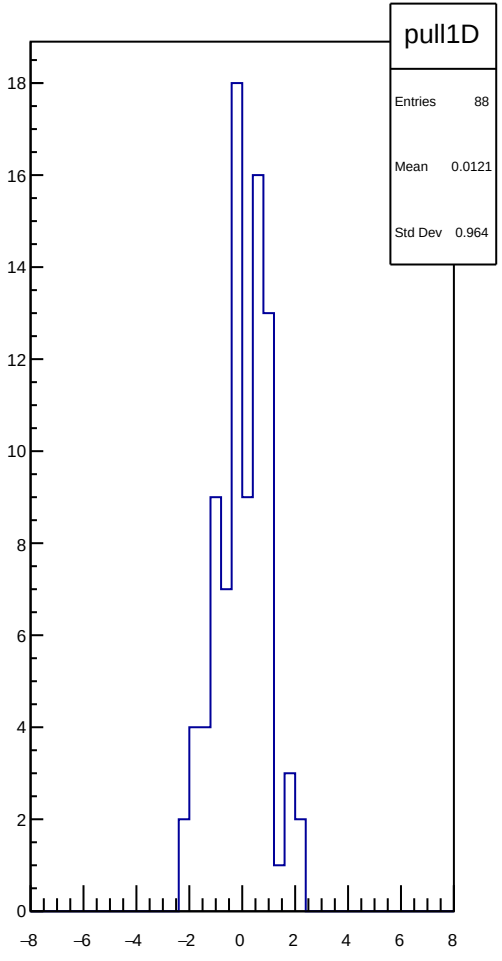

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2171 / 87
p0 170.5 ± 0.1321
195
190
185
180
175
170
165
160
155

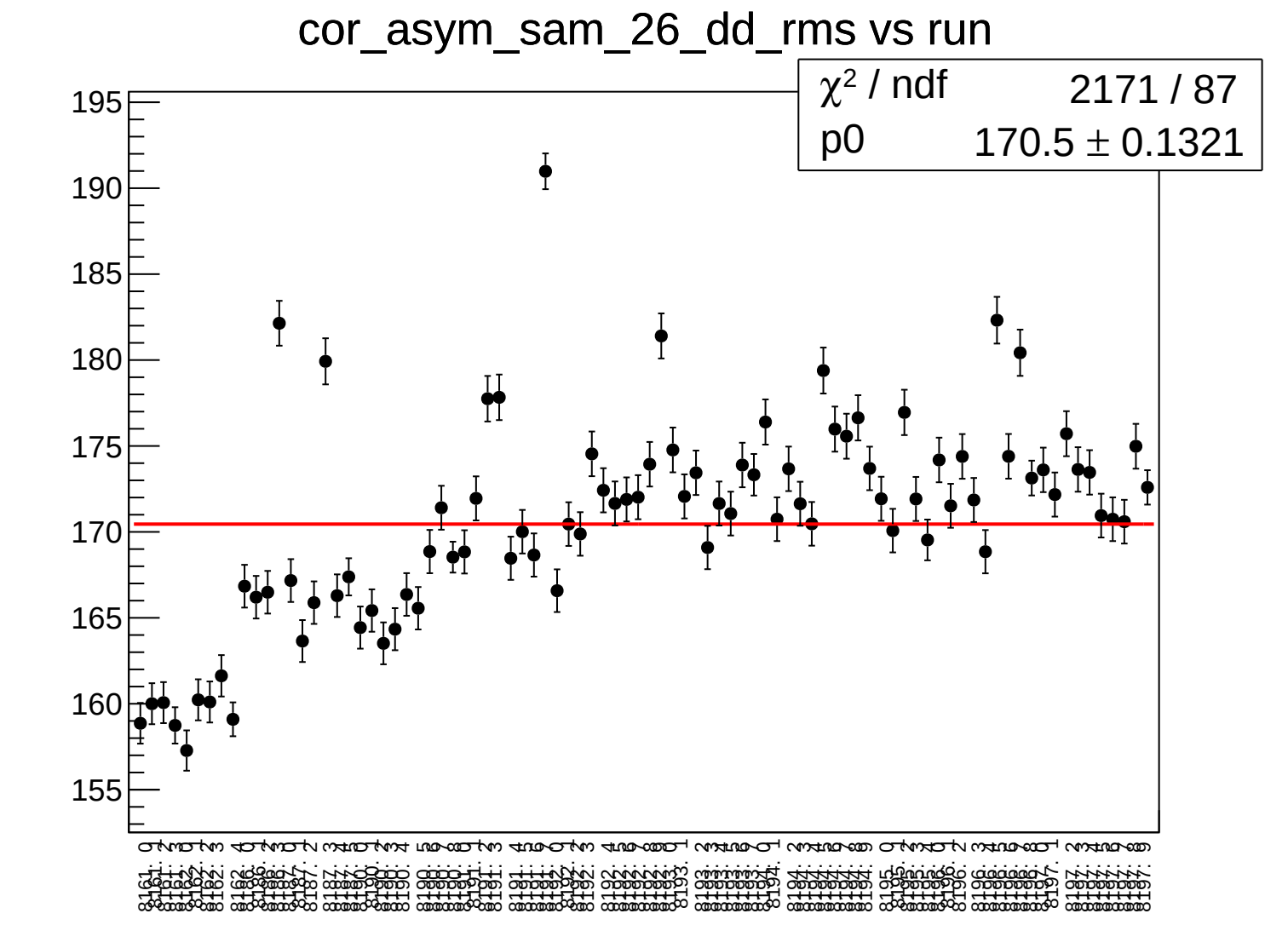

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 78.91 / 87
p0 −5041 ± 3658
pull
Entries 88
Mean 476.6
Std Dev 0

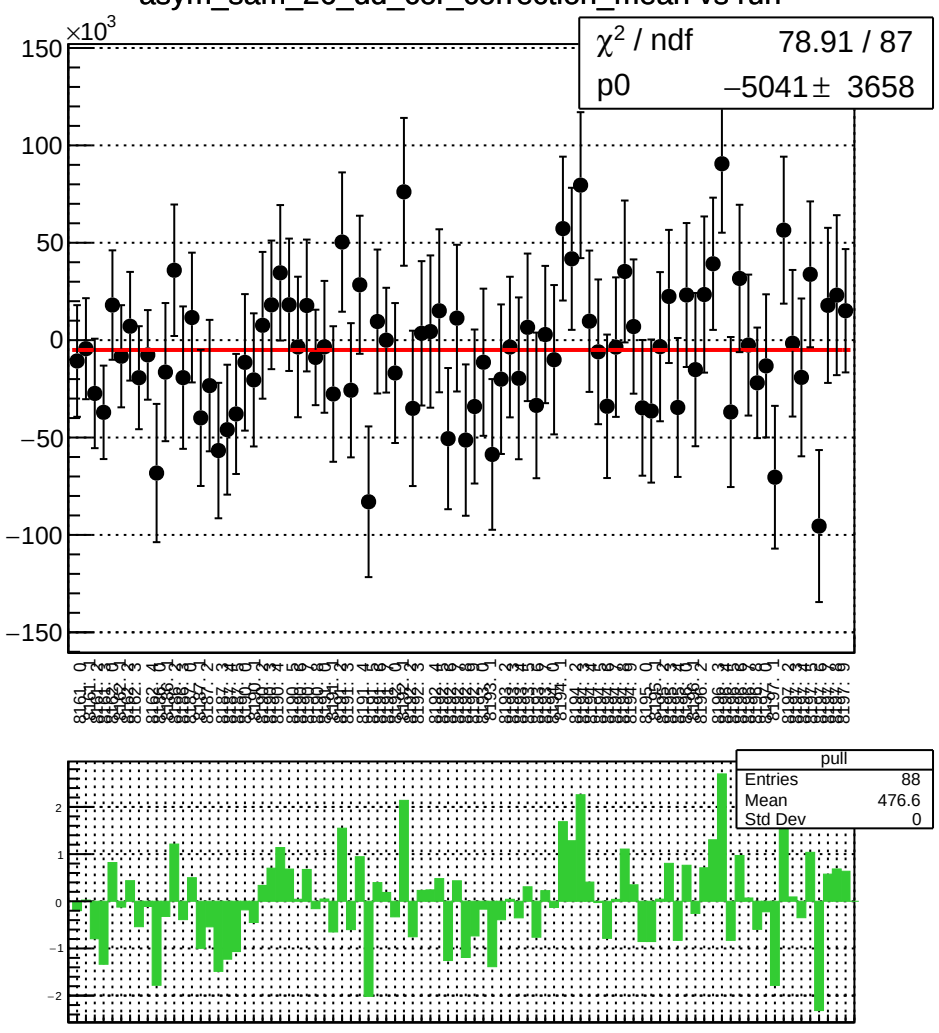

pull1D
Entries 88
Mean 0.009601
Std Dev 0.9469

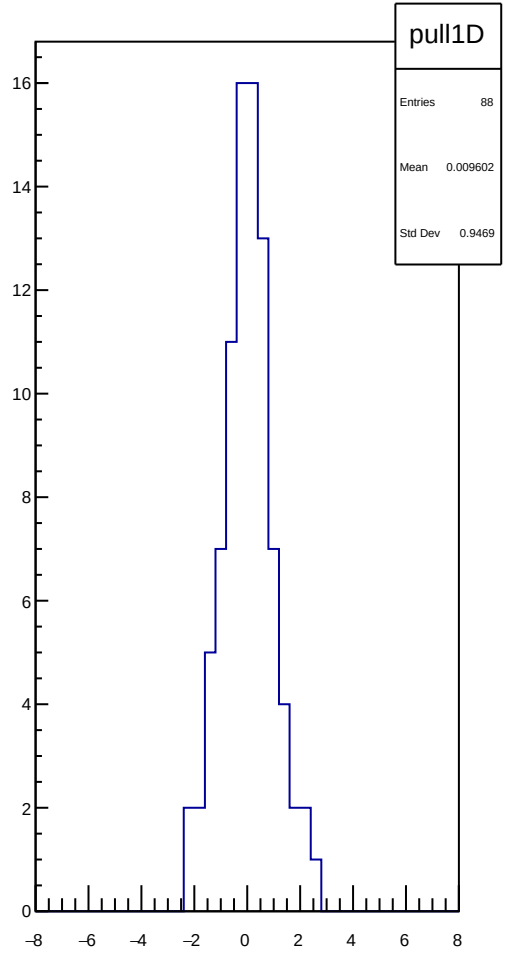

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2.176e+04 / 87
p0 3317 ± 2.586
4000
3800
3600
3400
3200
3000
2800
2600
2400

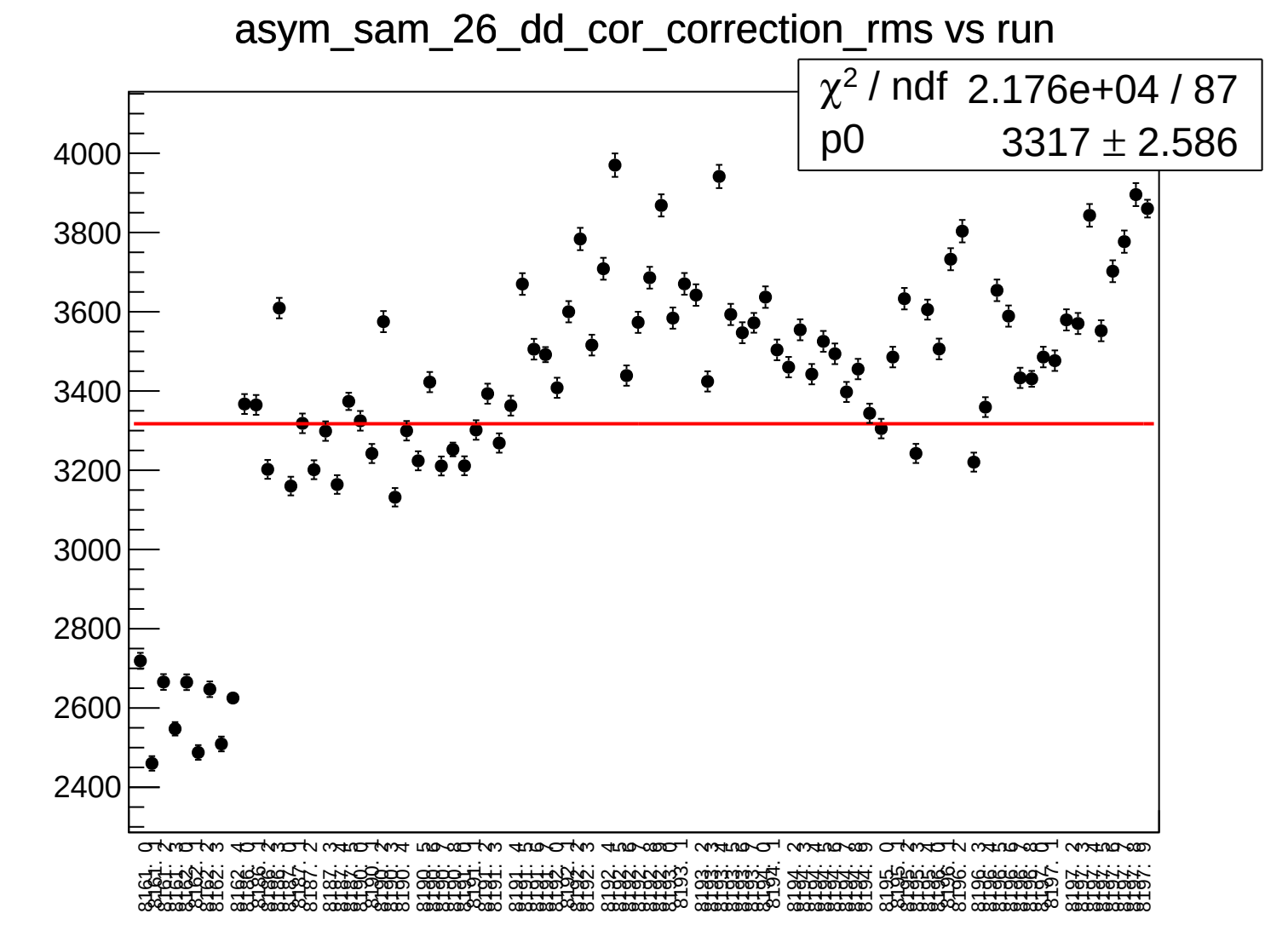

cor_asym_sam_26_dd_mean vs run
χ² / ndf 81.79 / 87
p0 −531 ± 186.8
pull
Entries 88
Mean 13.83
Std Dev 0

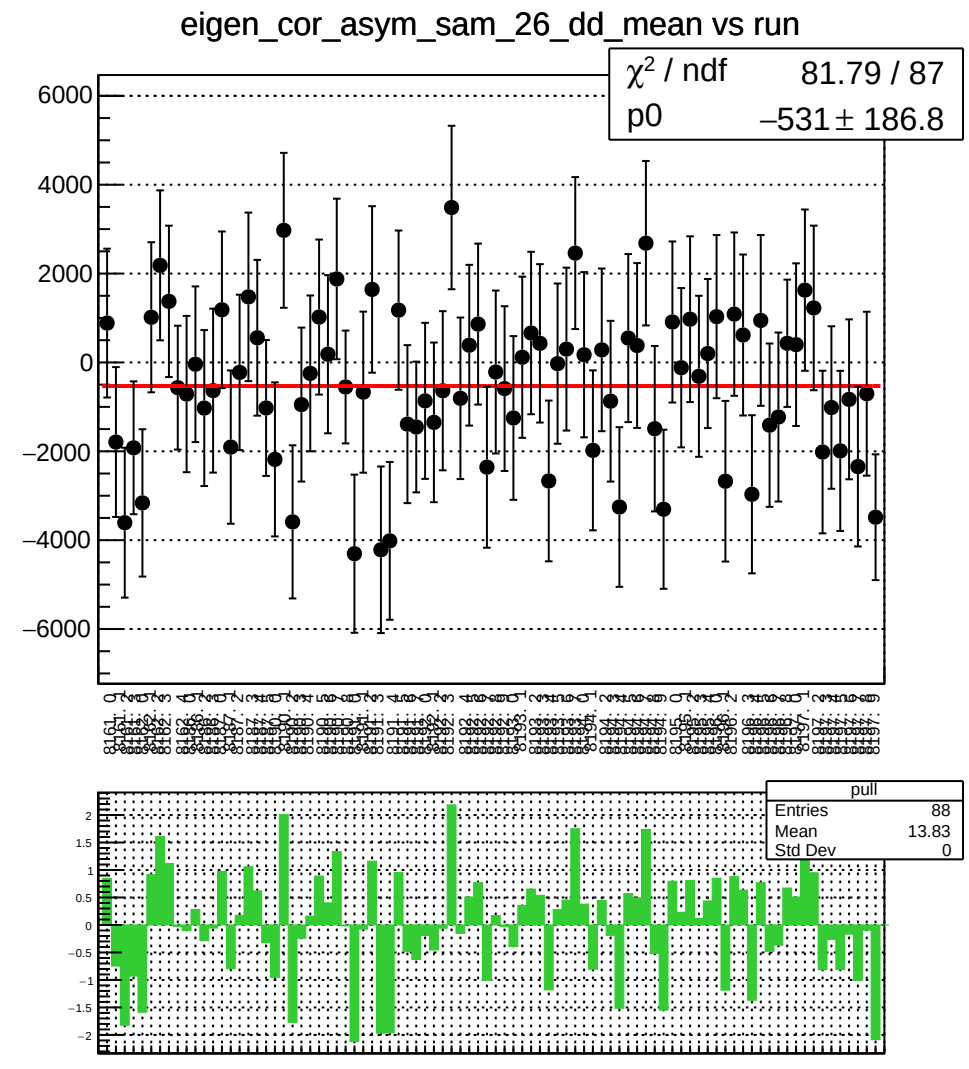

pull1D
Entries 88
Mean 0.0121
Std Dev 0.964

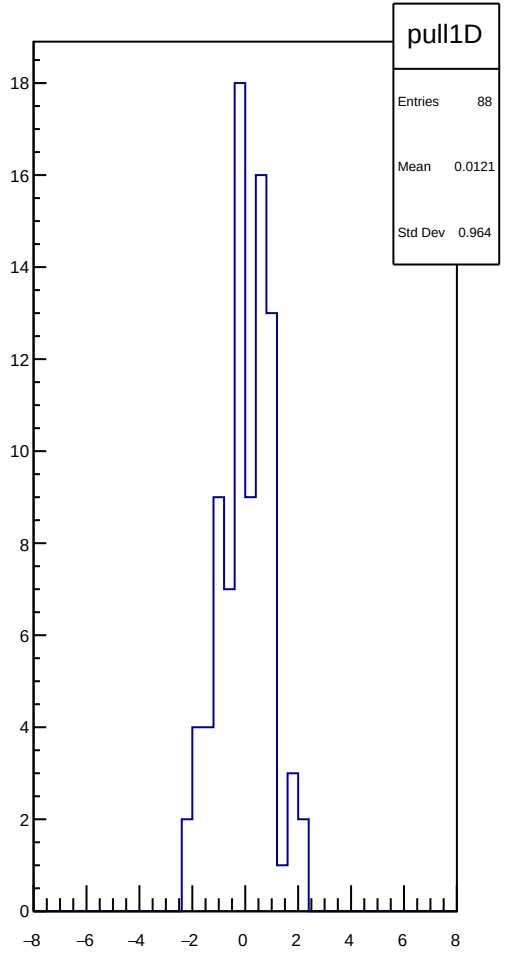

cor_asym_sam_26_dd_rms vs run
χ² / ndf 2171 / 87
p0 170.5 ± 0.1321
195
190
185
180
175
170
165
160
155

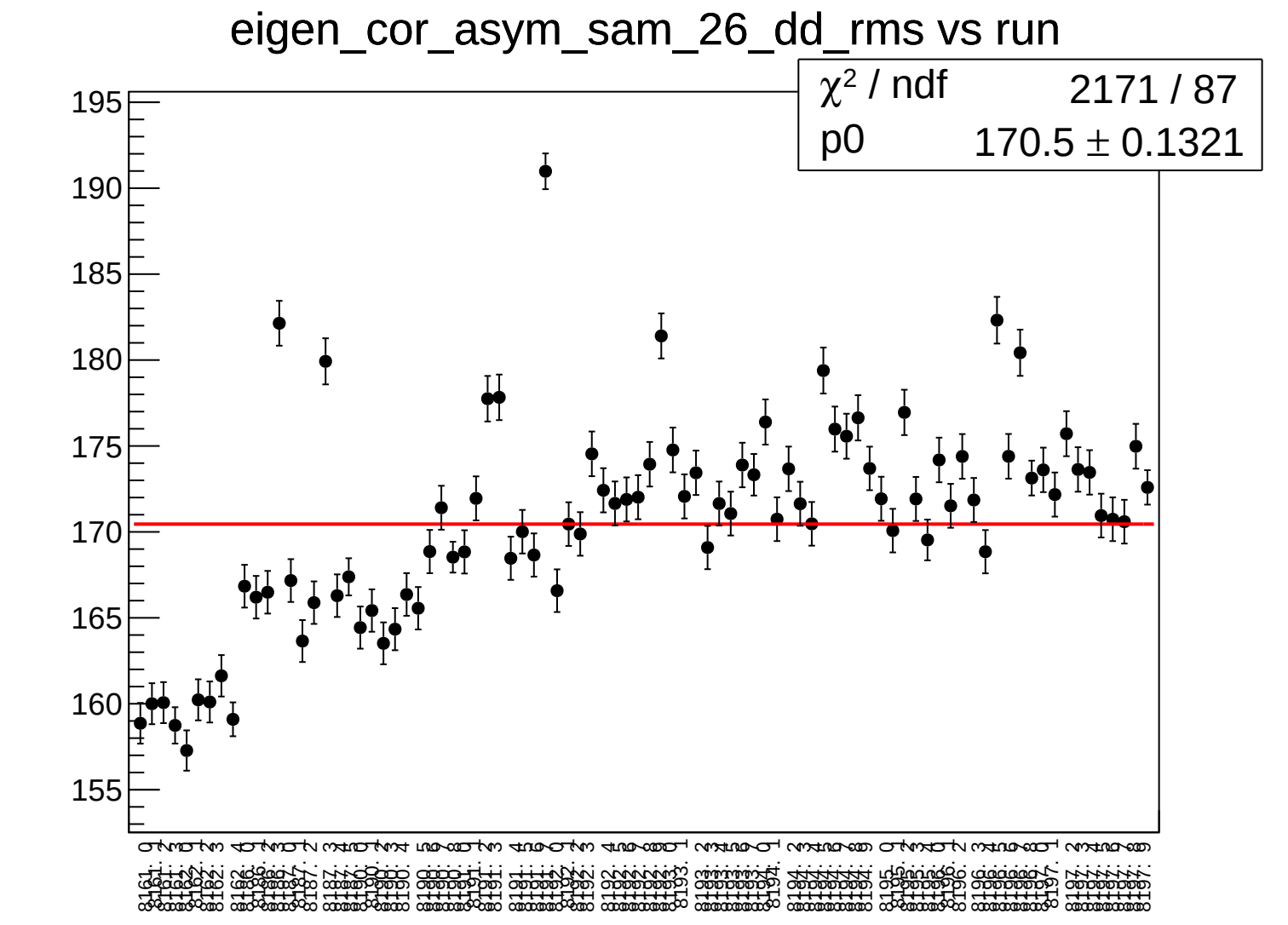

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 78.91 / 87
p0 −5041 ± 3658
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 476.6
Std Dev 0
2
1
0
−1
−2

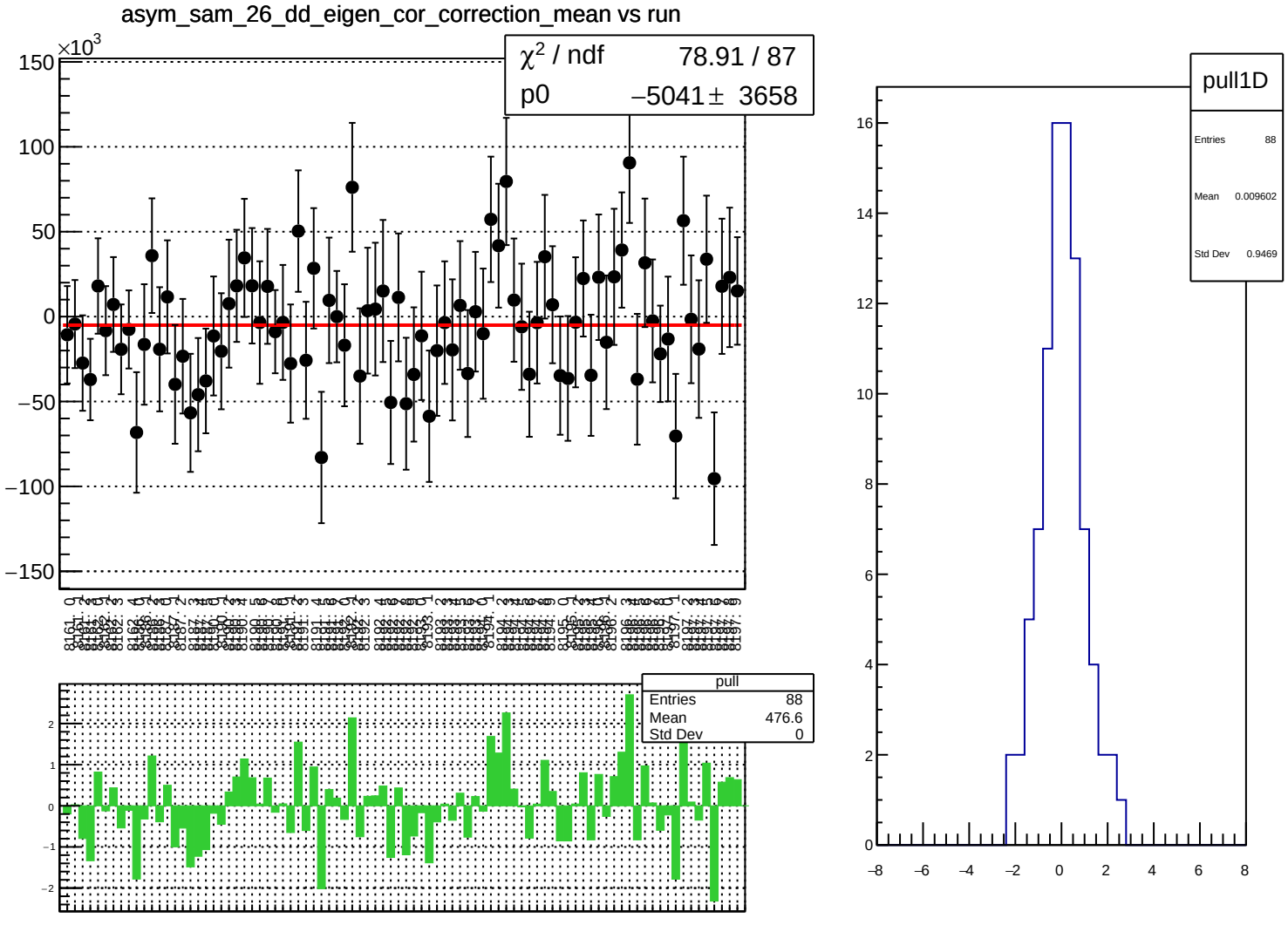

pull1D
Entries 88
Mean 0.009602
Std Dev 0.9469
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

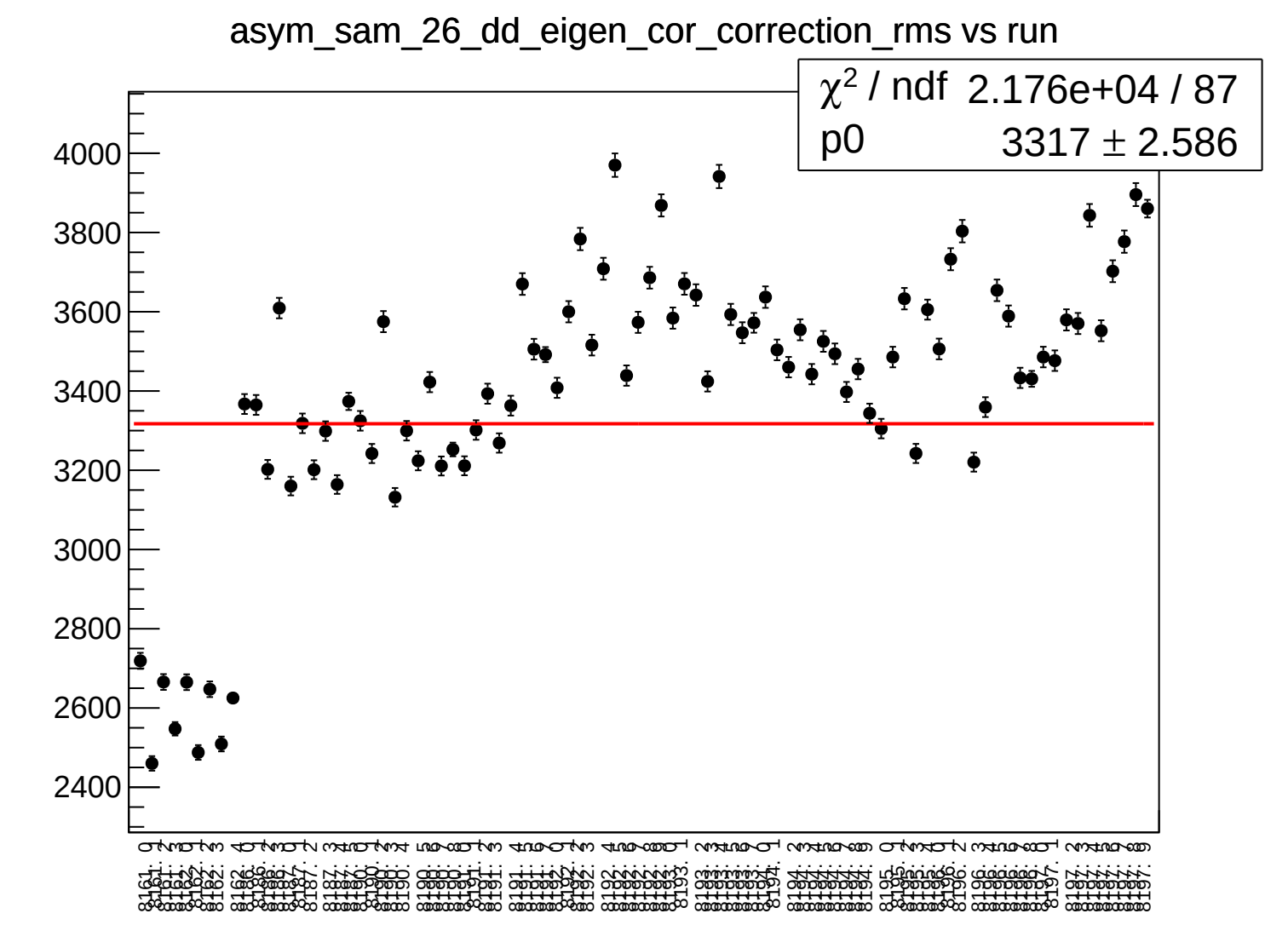

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2.176e+04 / 87
p0 3317 ± 2.586
4000
3800
3600
3400
3200
3000
2800
2600
2400

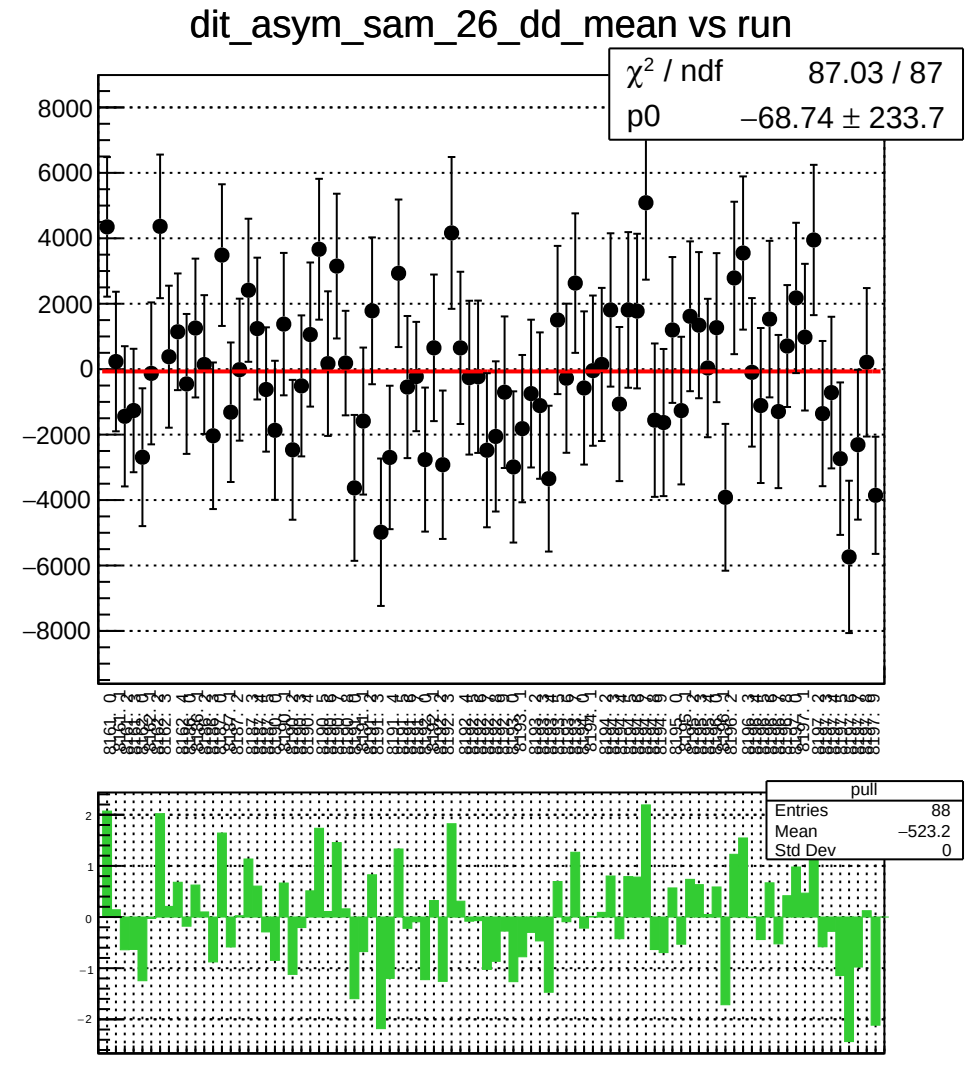

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 81.79 / 87
p0 −531 ± 186.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 13.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

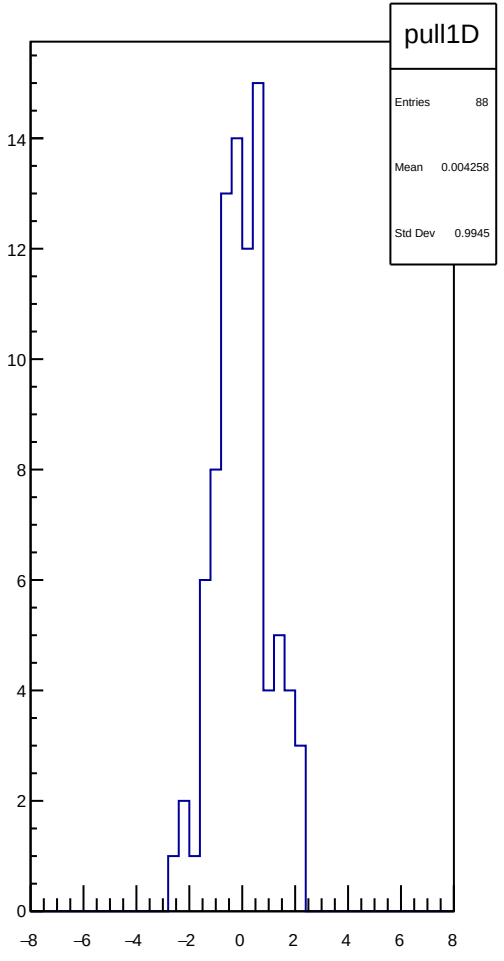

pull1D
Entries 88
Mean 0.0121
Std Dev 0.964
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 2171 / 87
p0 170.5 ± 0.1321
195
190
185
180
175
170
165
160
155

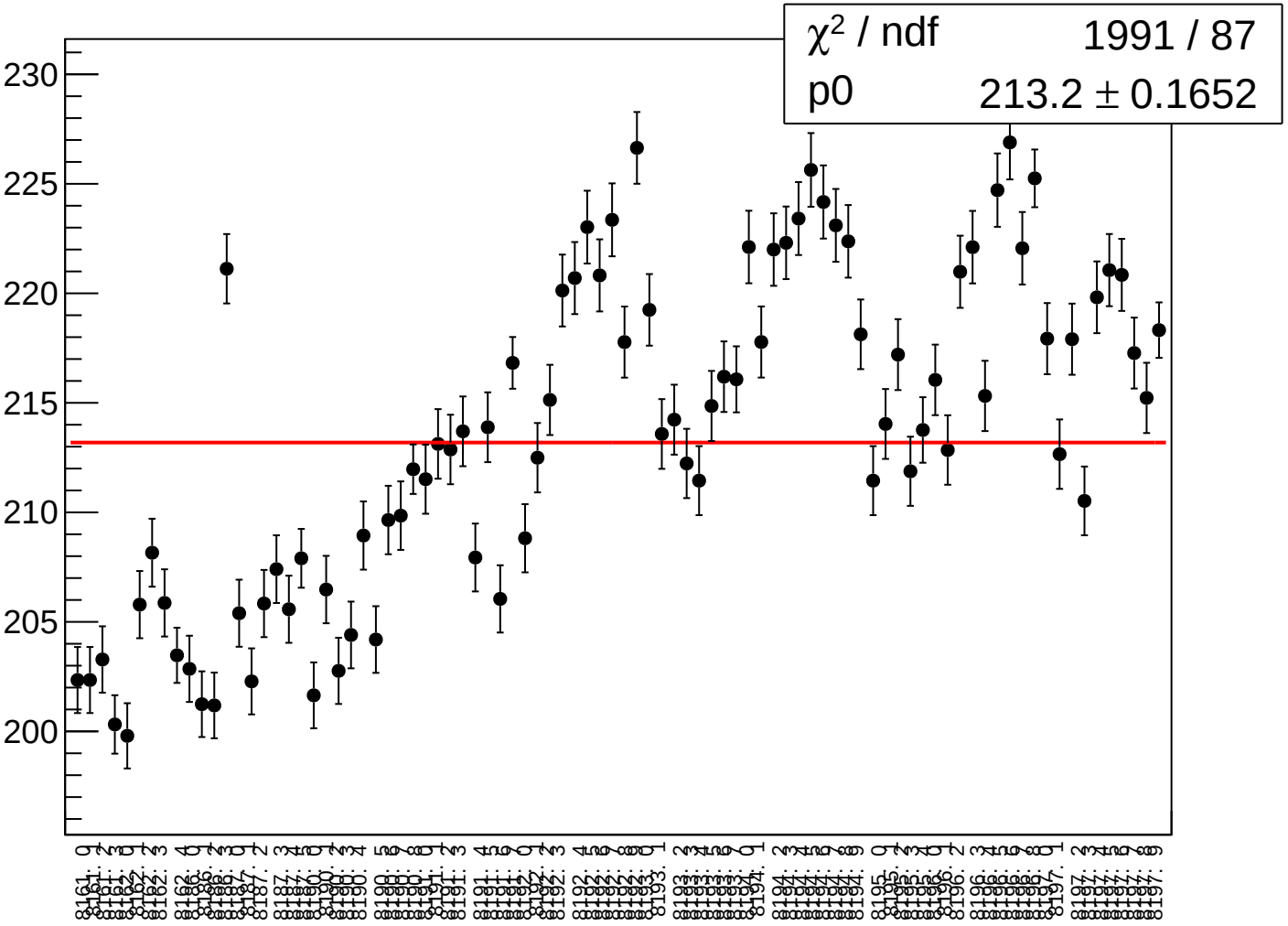

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 78.91 / 87
p0 −5041 ± 3658
pull
Entries 88
Mean 476.6
Std Dev 0
pull1D
Entries 88
Mean 0.009602
Std Dev 0.9469

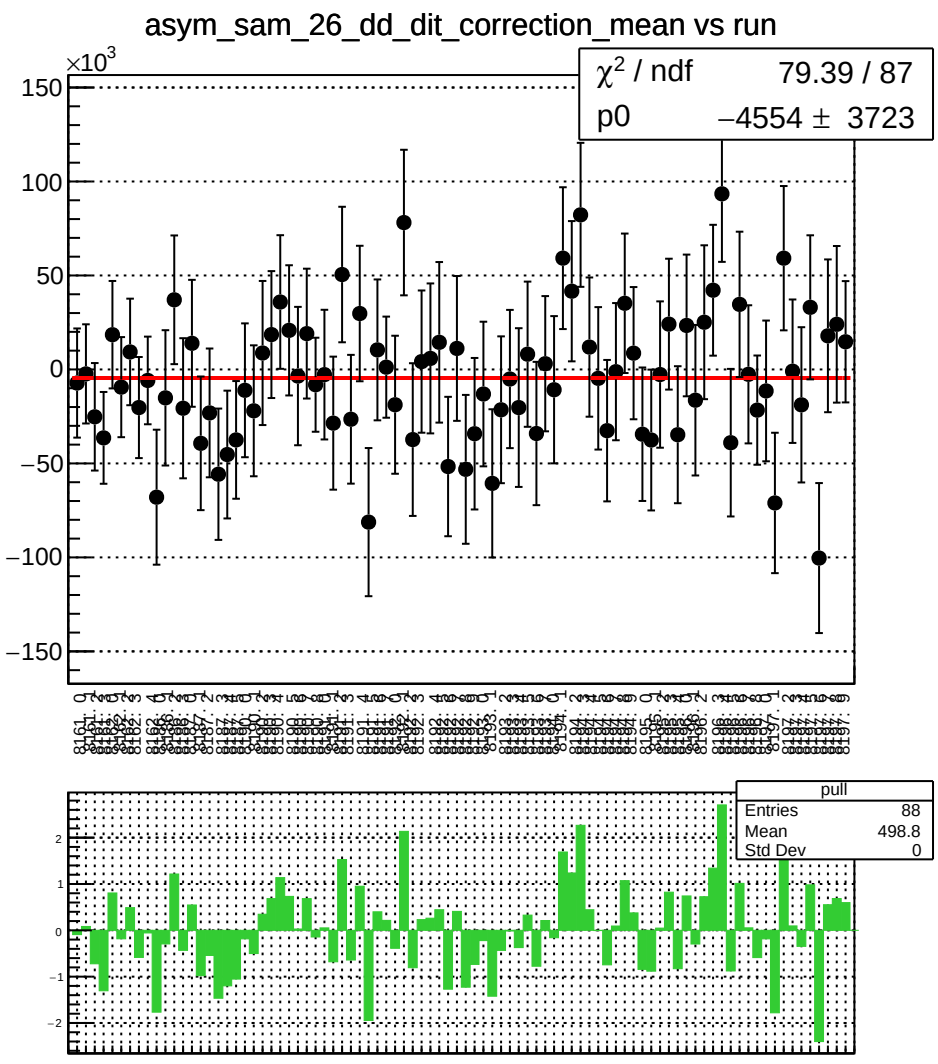

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.176e+04 / 87
p0 3317 ± 2.586
4000
3800
3600
3400
3200
3000
2800
2600
2400

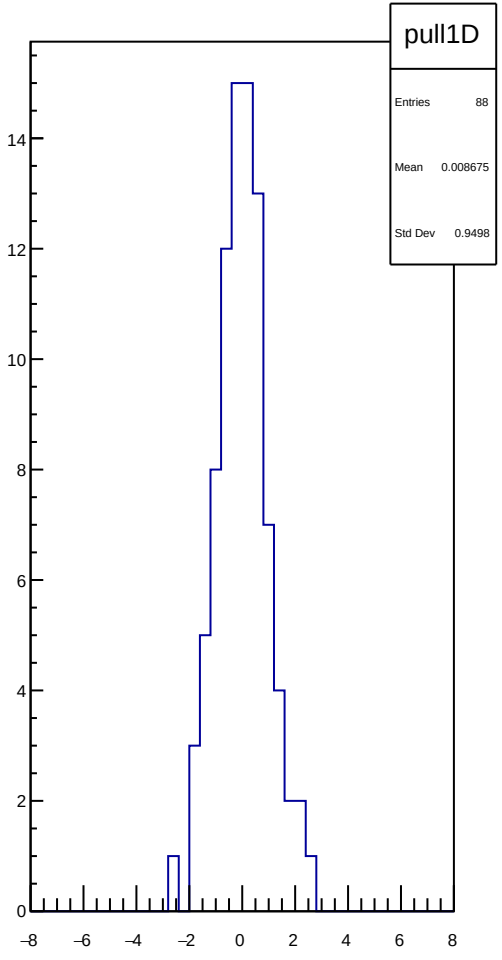

dit_asym_sam_26_dd_mean vs run
χ² / ndf 87.03 / 87
p0 −68.74 ± 233.7
pull
Entries 88
Mean −523.2
Std Dev 0

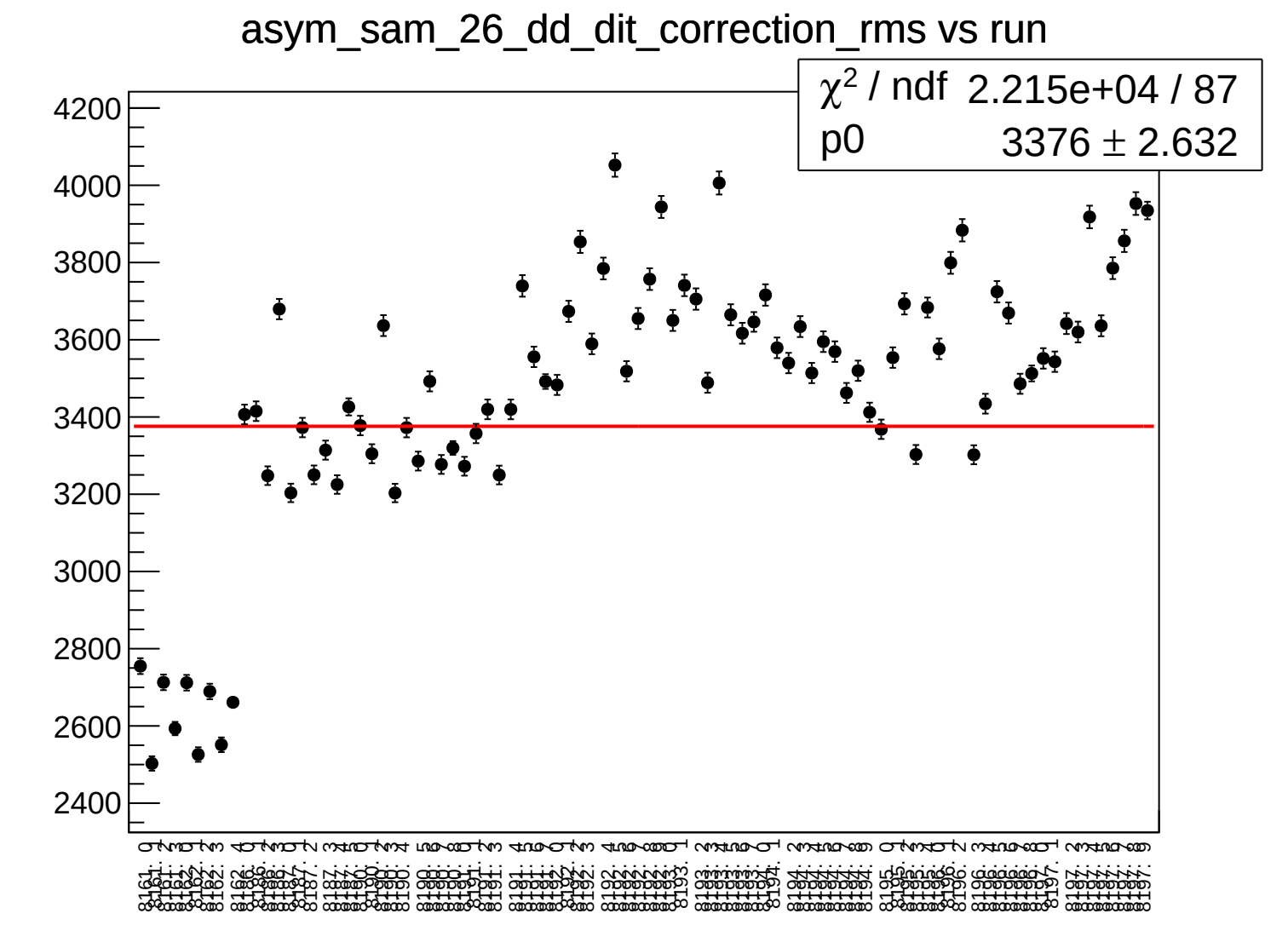

pull1D
Entries 88
Mean 0.004258
Std Dev 0.9945

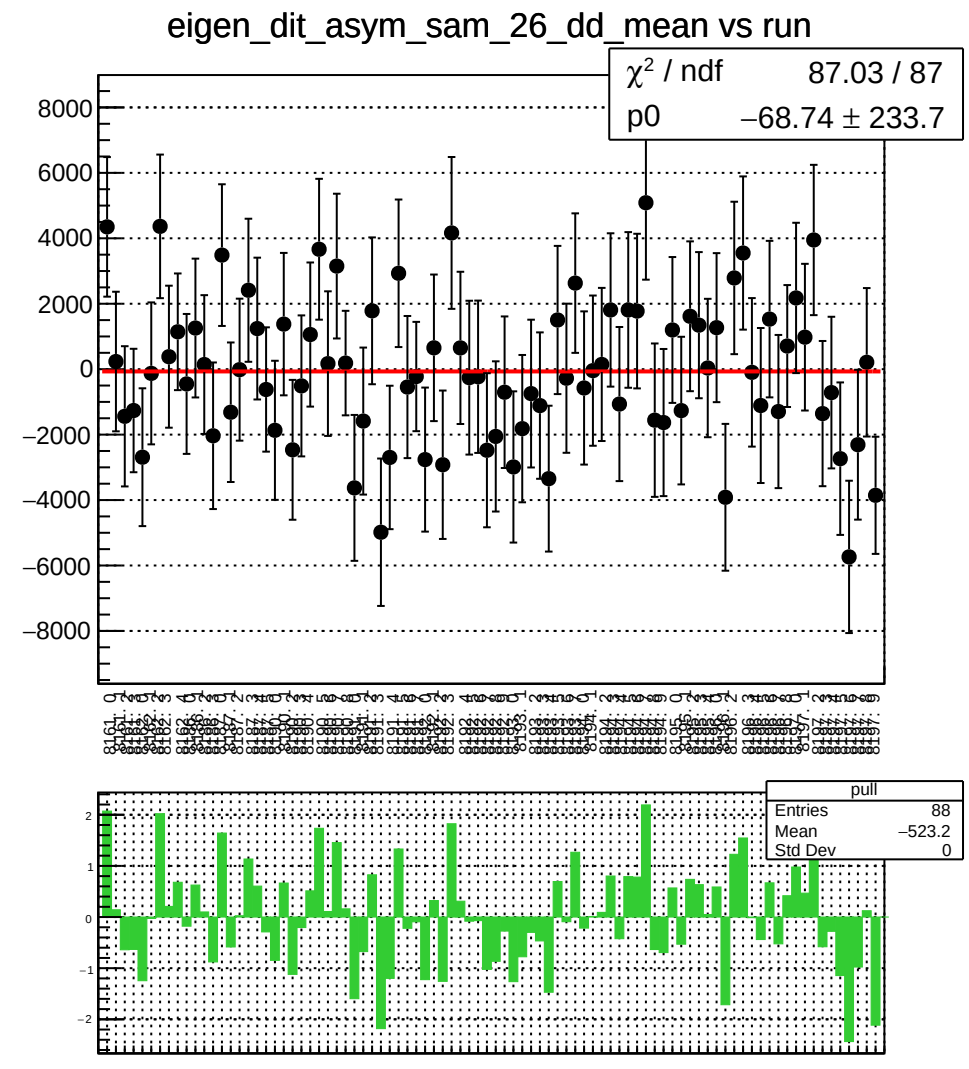
dit_asym_sam_26_dd_rms vs run

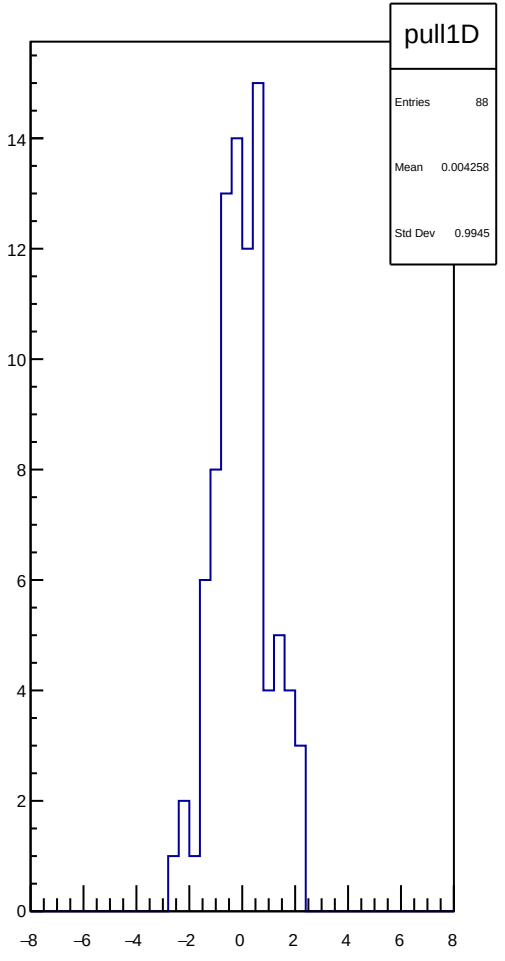


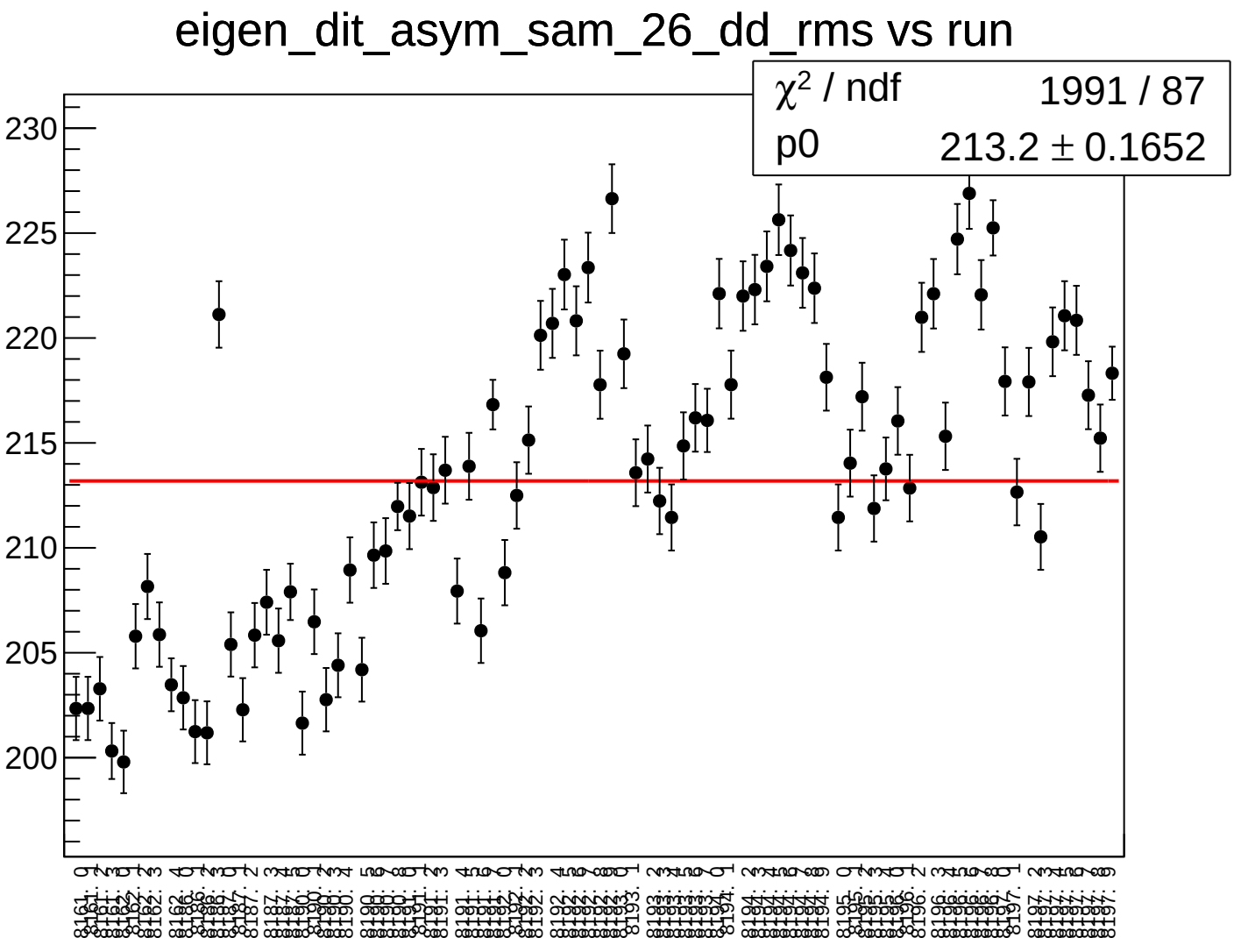

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 79.39 / 87
p0 −4554 ± 3723
pull
Entries 88
Mean 498.8
Std Dev 0

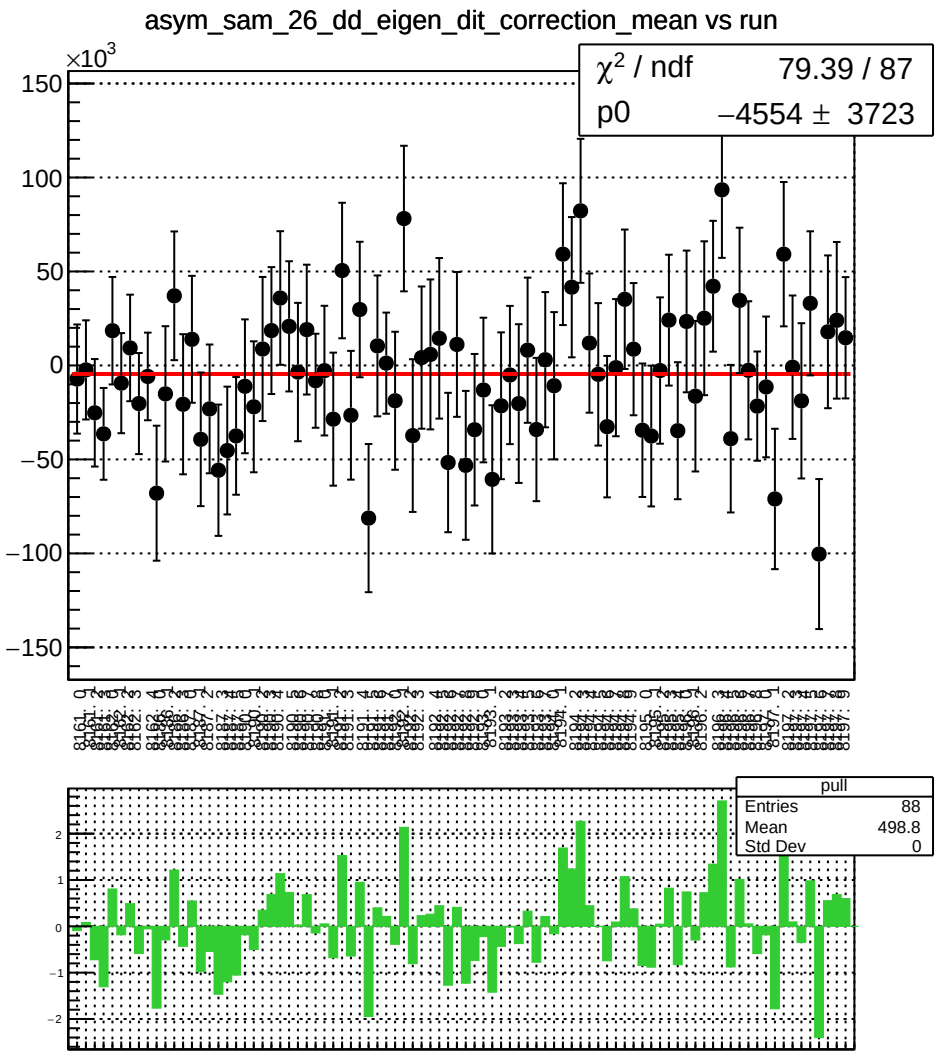

pull1D
Entries 88
Mean 0.008675
Std Dev 0.9498

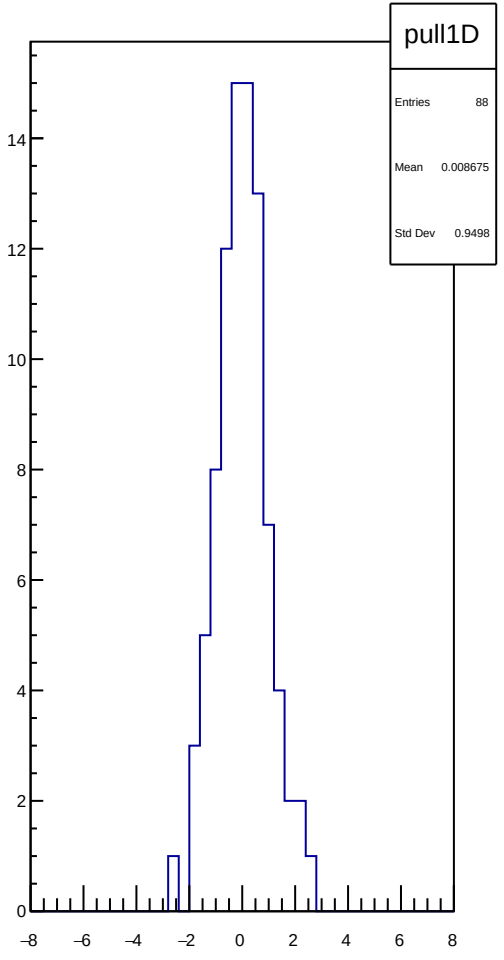

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2.215e+04 / 87
p0 3376 ± 2.632
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

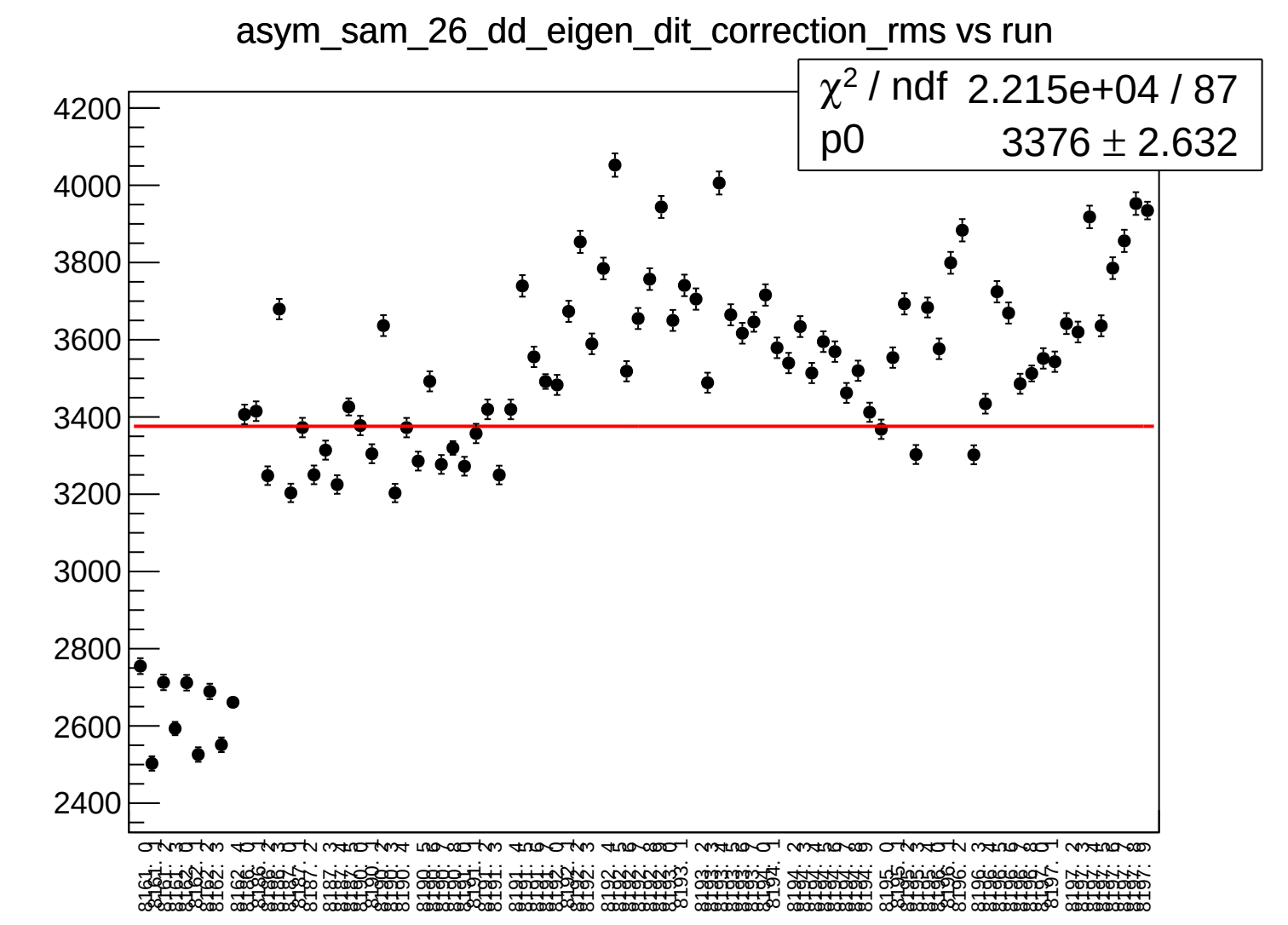

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 87.03 / 87
p0 −68.74 ± 233.7
pull
Entries 88
Mean −523.2
Std Dev 0

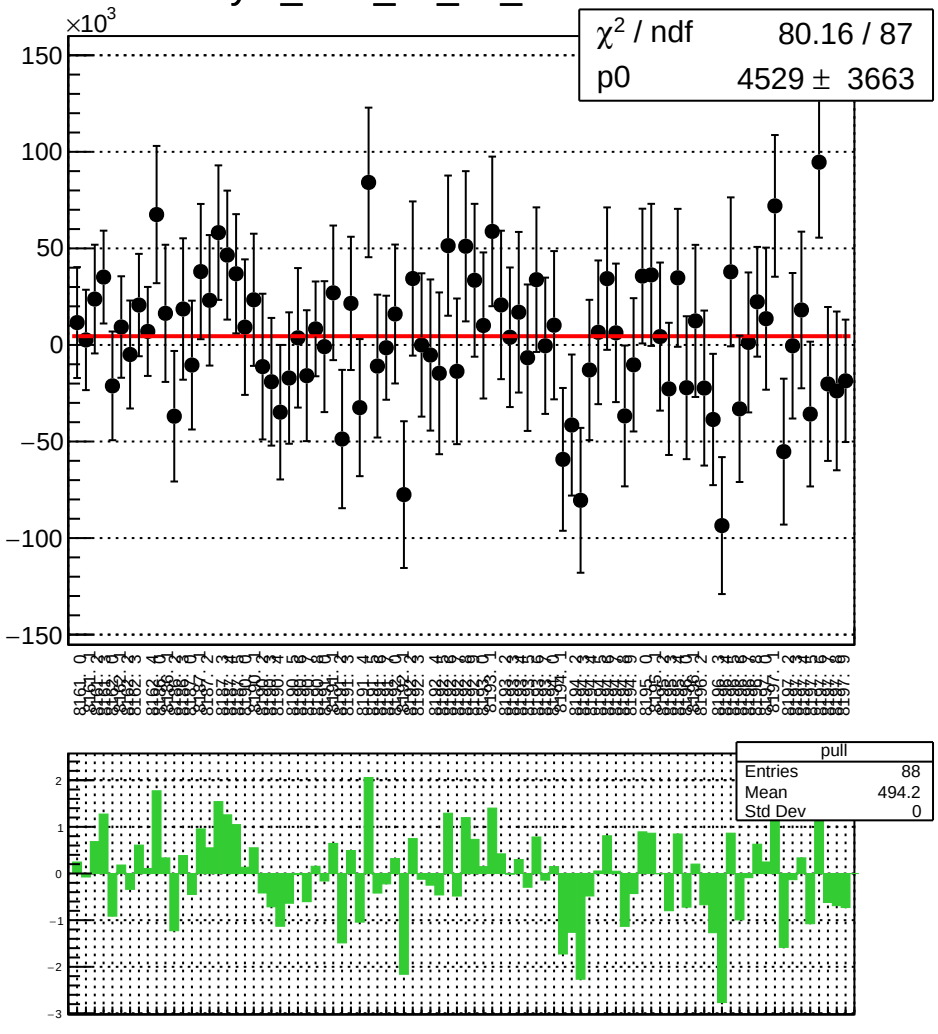

pull1D
Entries 88
Mean 0.004258
Std Dev 0.9945

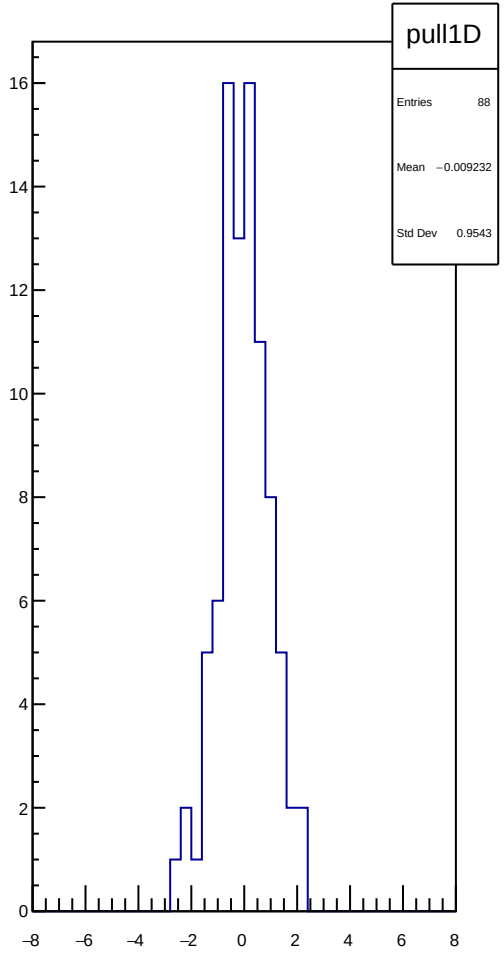

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1991 / 87
p0 213.2 ± 0.1652
230
225
220
215
210
205
200

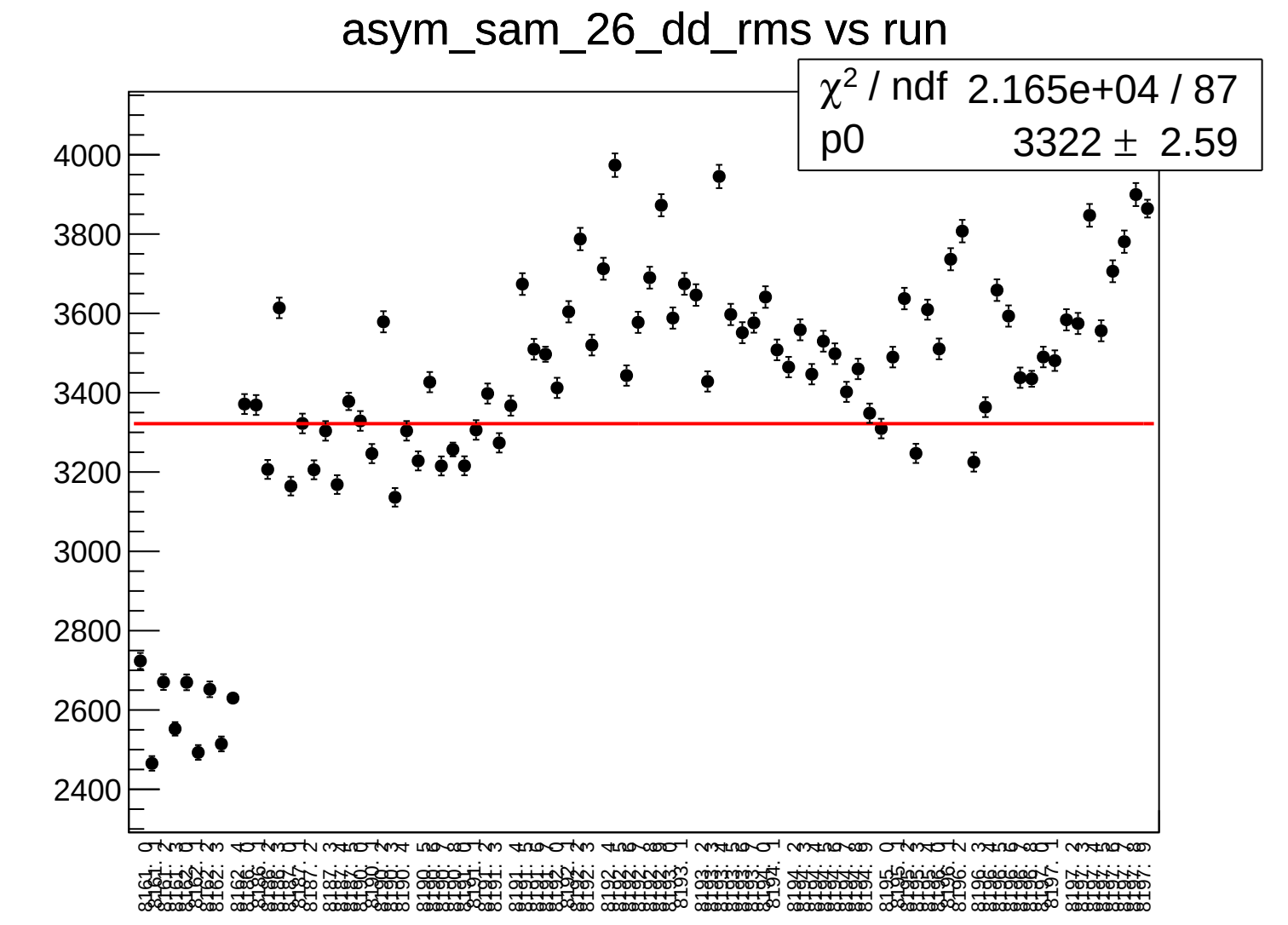

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.39 / 87
p0 −4554 ± 3723
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 498.8
Std Dev 0
2
1
0
−1
−2

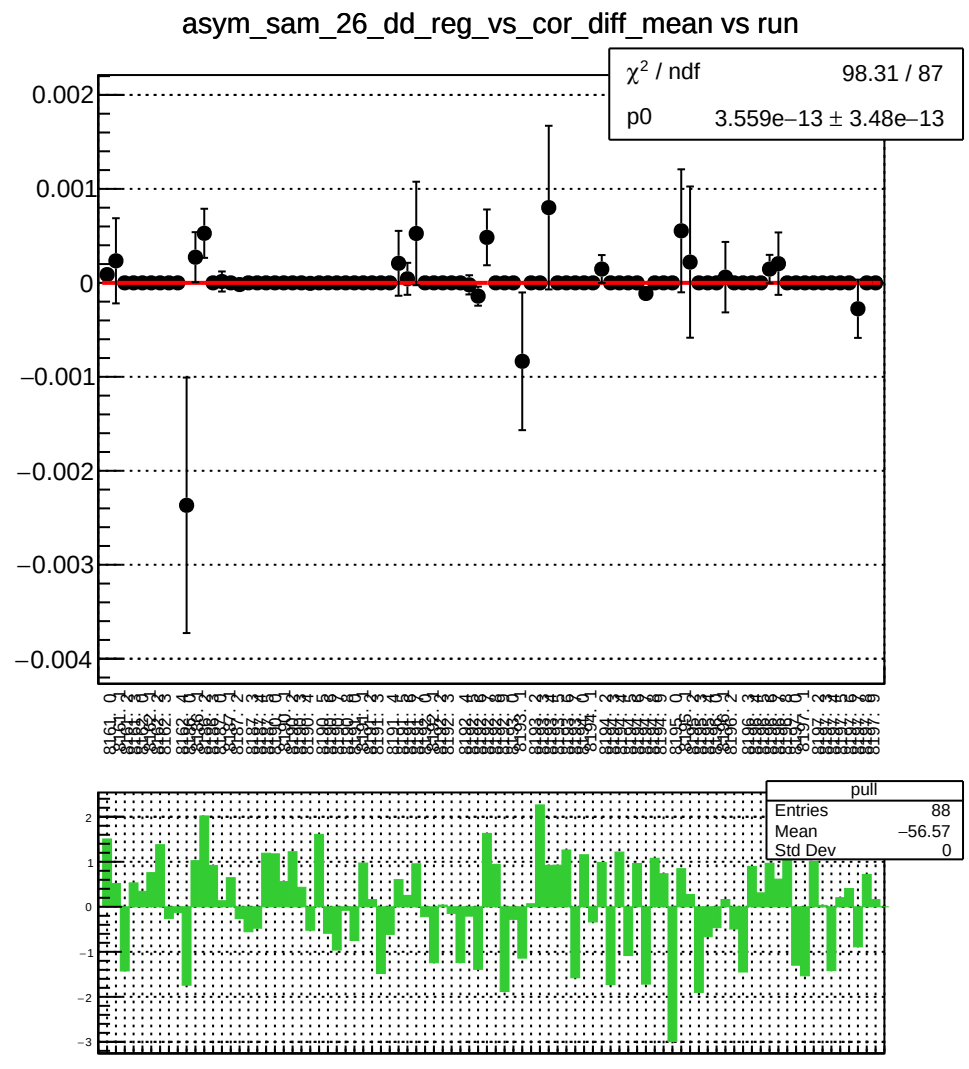

pull1D
Entries 88
Mean 0.008675
Std Dev 0.9498
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

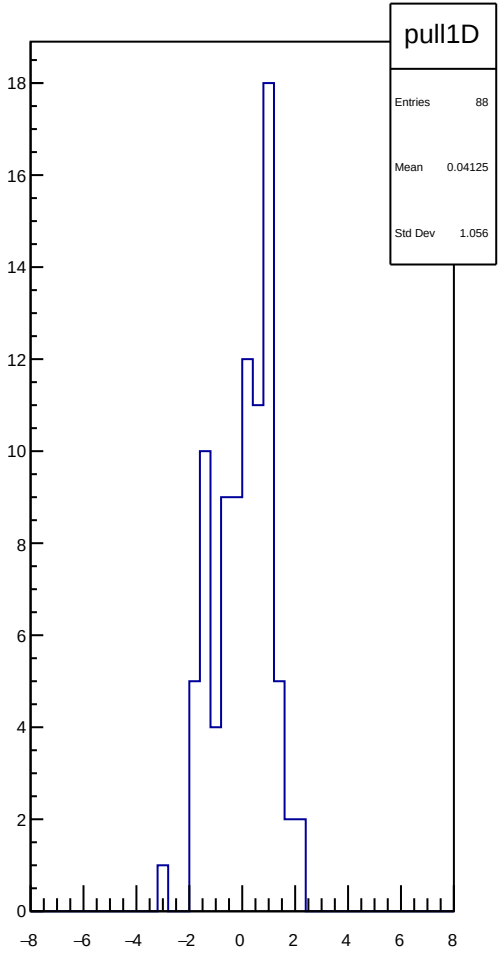

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.215e+04 / 87
p0 3376 ± 2.632
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400

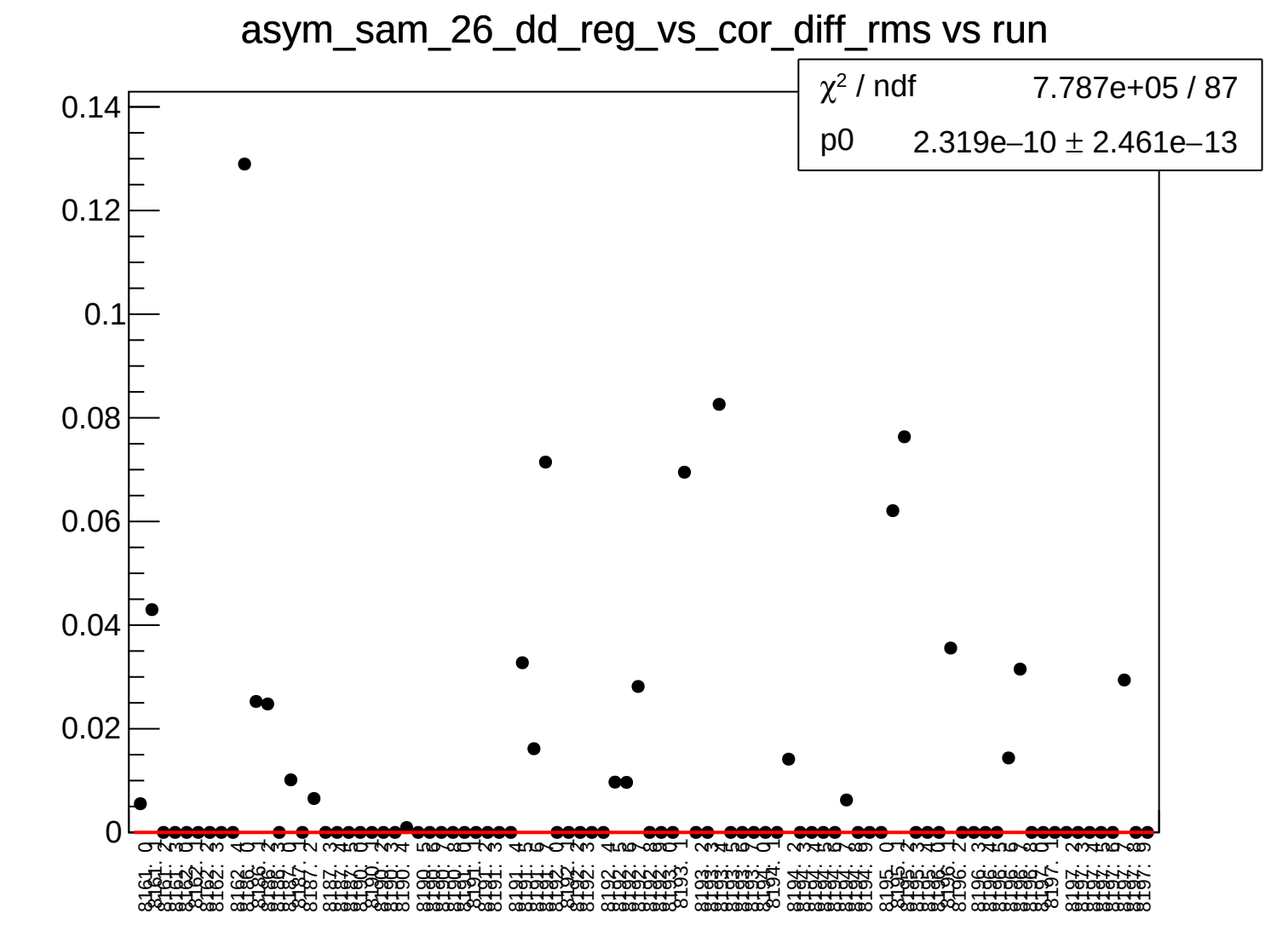

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 80.16 / 87
p0 4529 ± 3663
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 494.2
Std Dev 0
2
1
0
−1
−2
−3

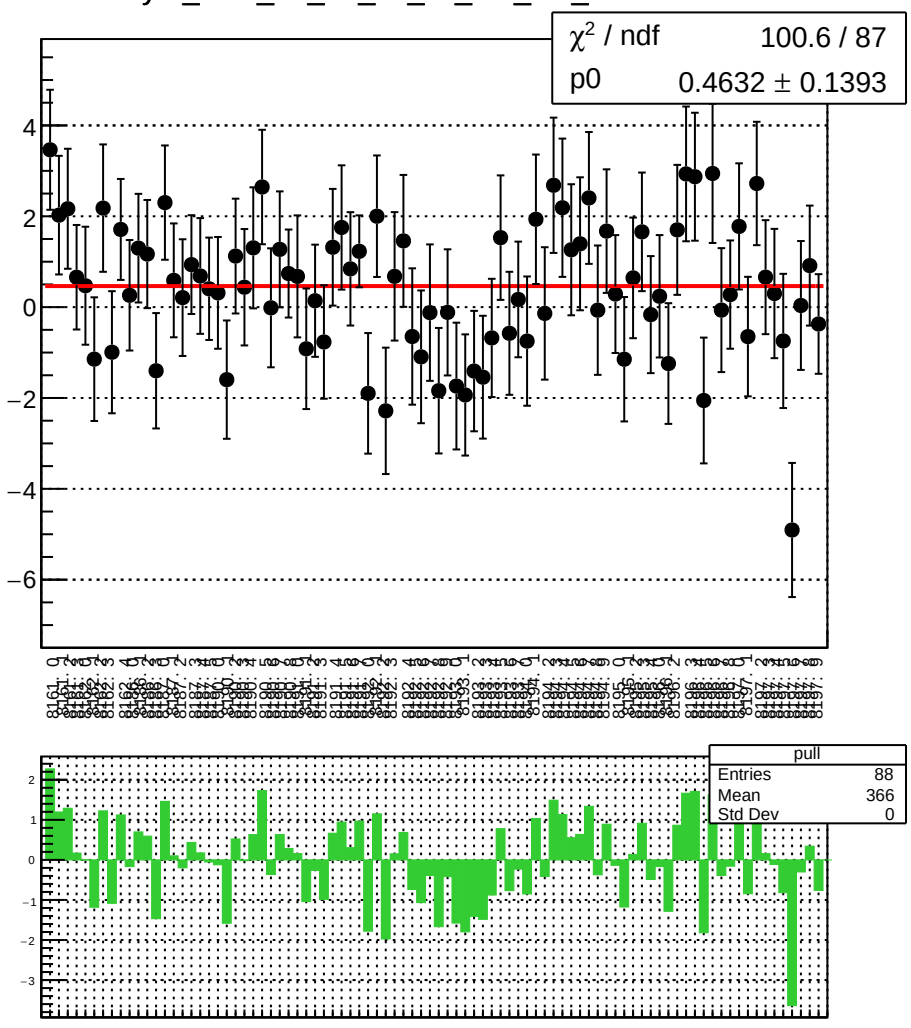

pull1D
Entries 88
Mean −0.009232
Std Dev 0.9543
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

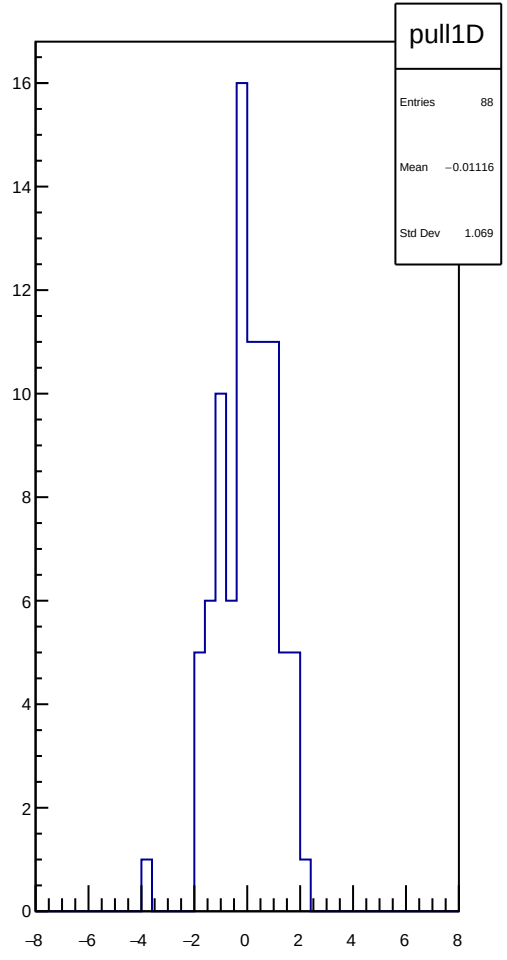

asym_sam_26_dd_rms vs run
χ^2 / ndf 2.165e+04 / 87
p0 3322 ± 2.59
4000
3800
3600
3400
3200
3000
2800
2600
2400

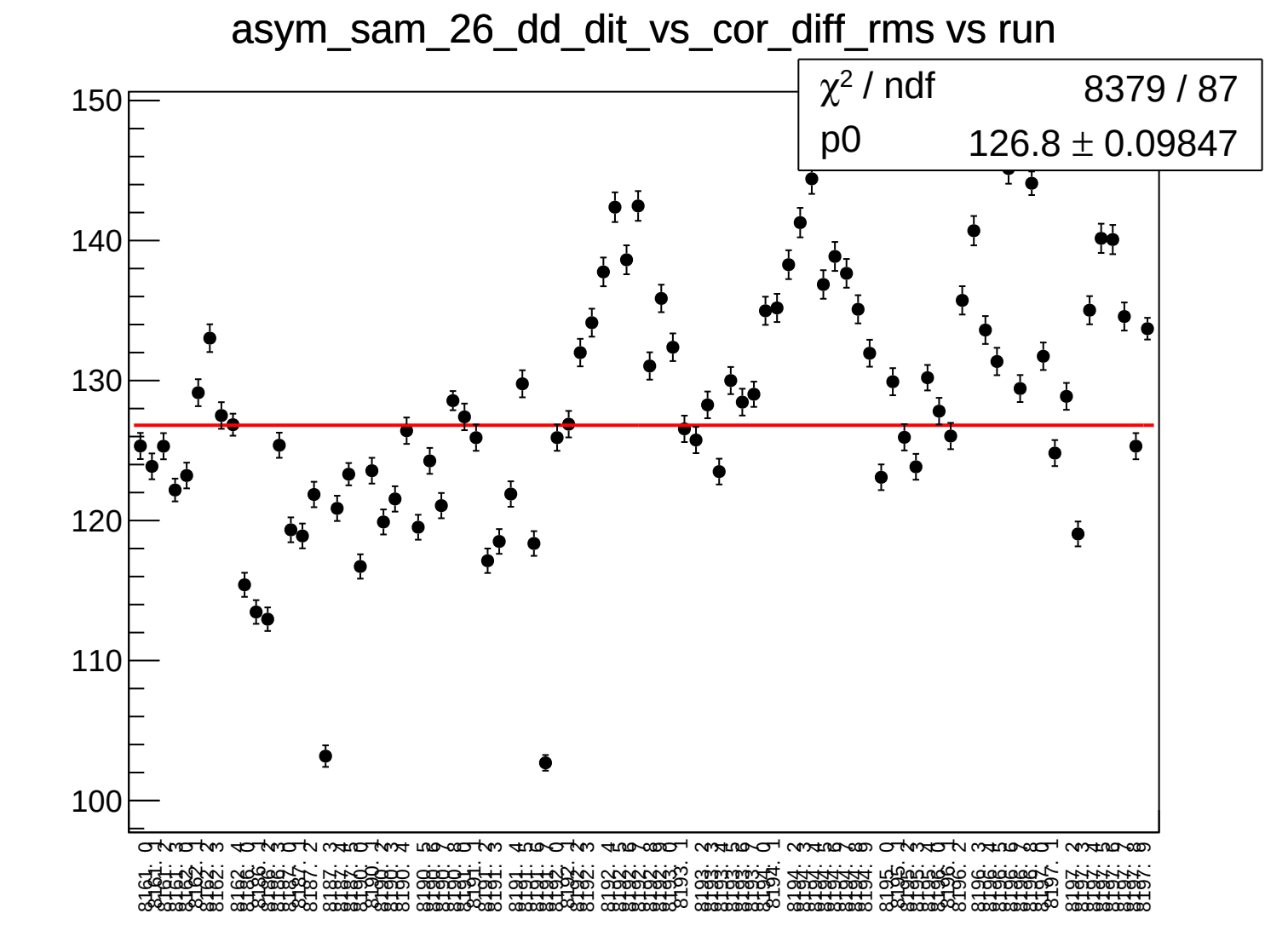

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.31 / 87
p0 3.559e−13 ± 3.48e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 88
Mean −56.57
Std Dev 0
2
1
0
−1
−2
−3

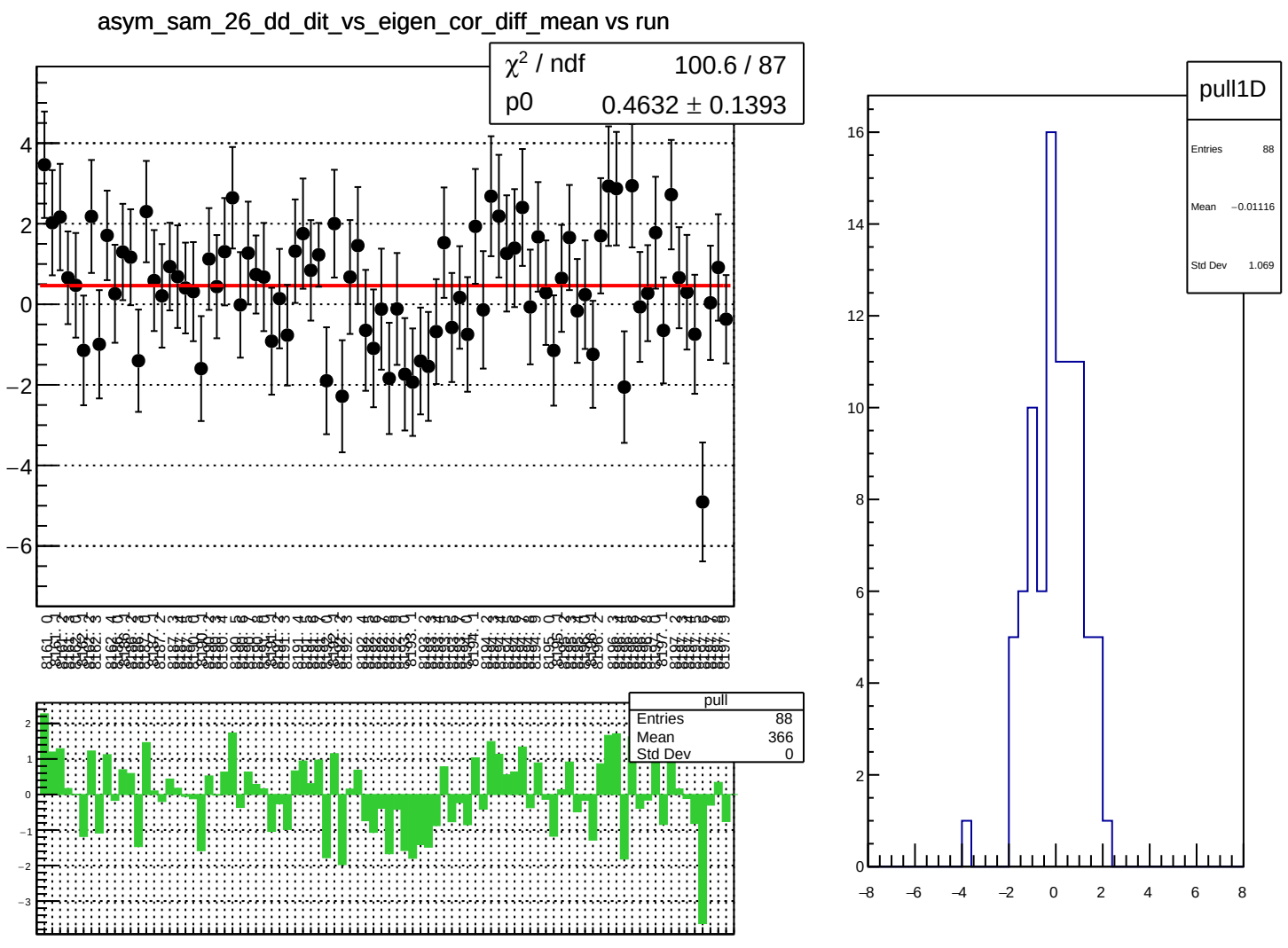

pull1D
Entries 88
Mean 0.04125
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

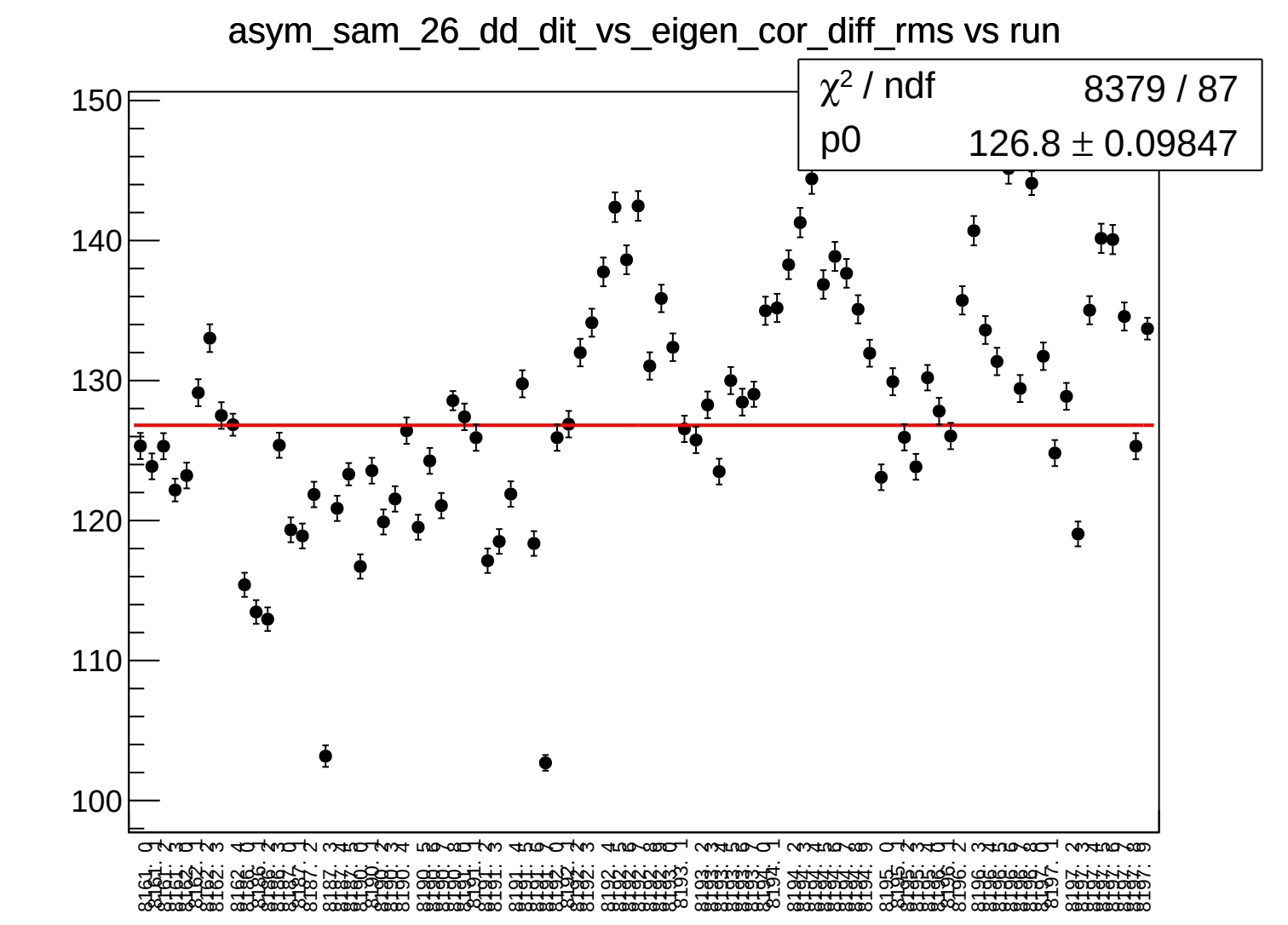

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.787e+05 / 87
p0 2.319e−10 ± 2.461e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

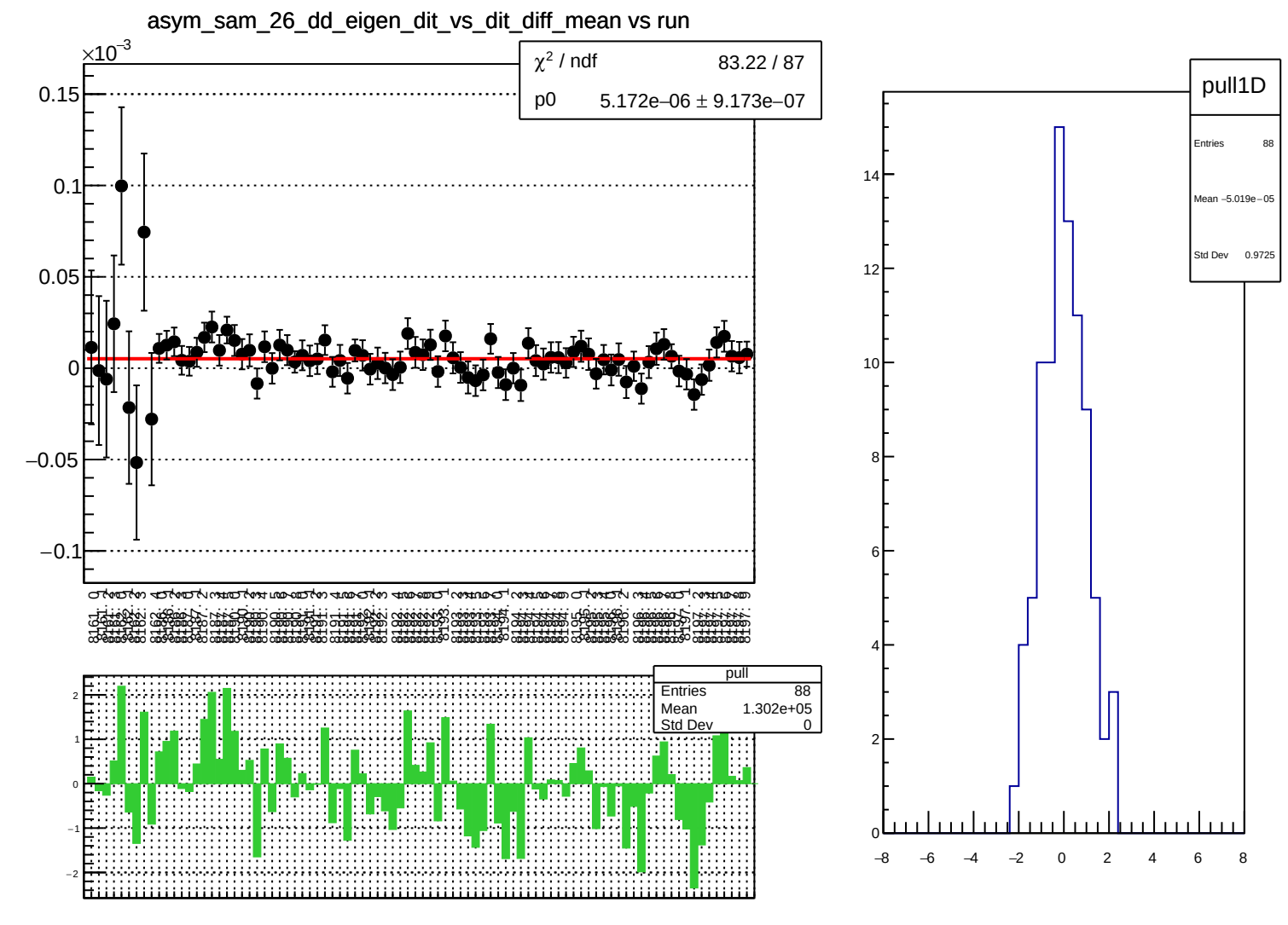

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 87
p0 0.4632 ± 0.1393
pull
Entries 88
Mean 366
Std Dev 0

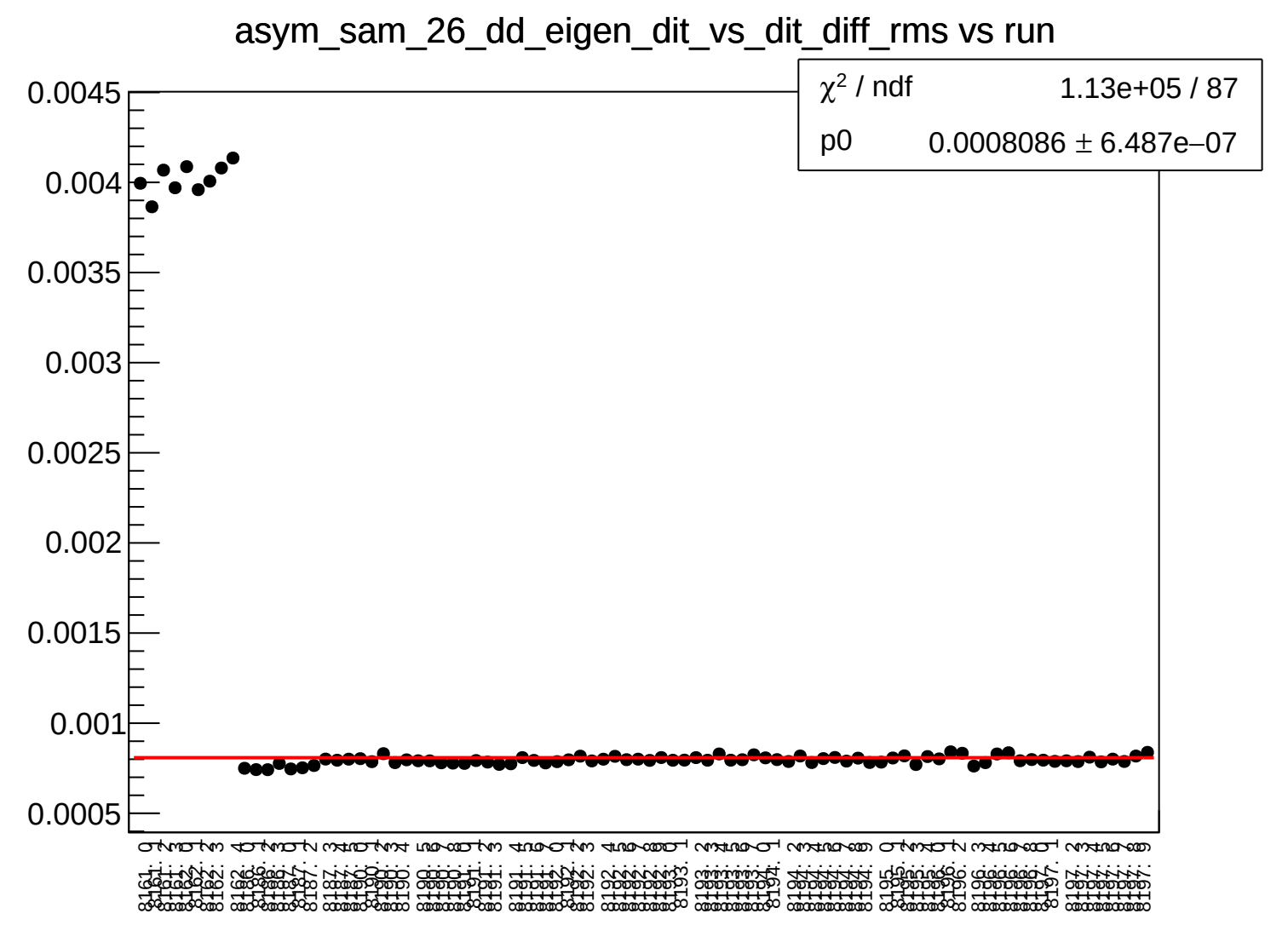

pull1D
Entries 88
Mean −0.01116
Std Dev 1.069

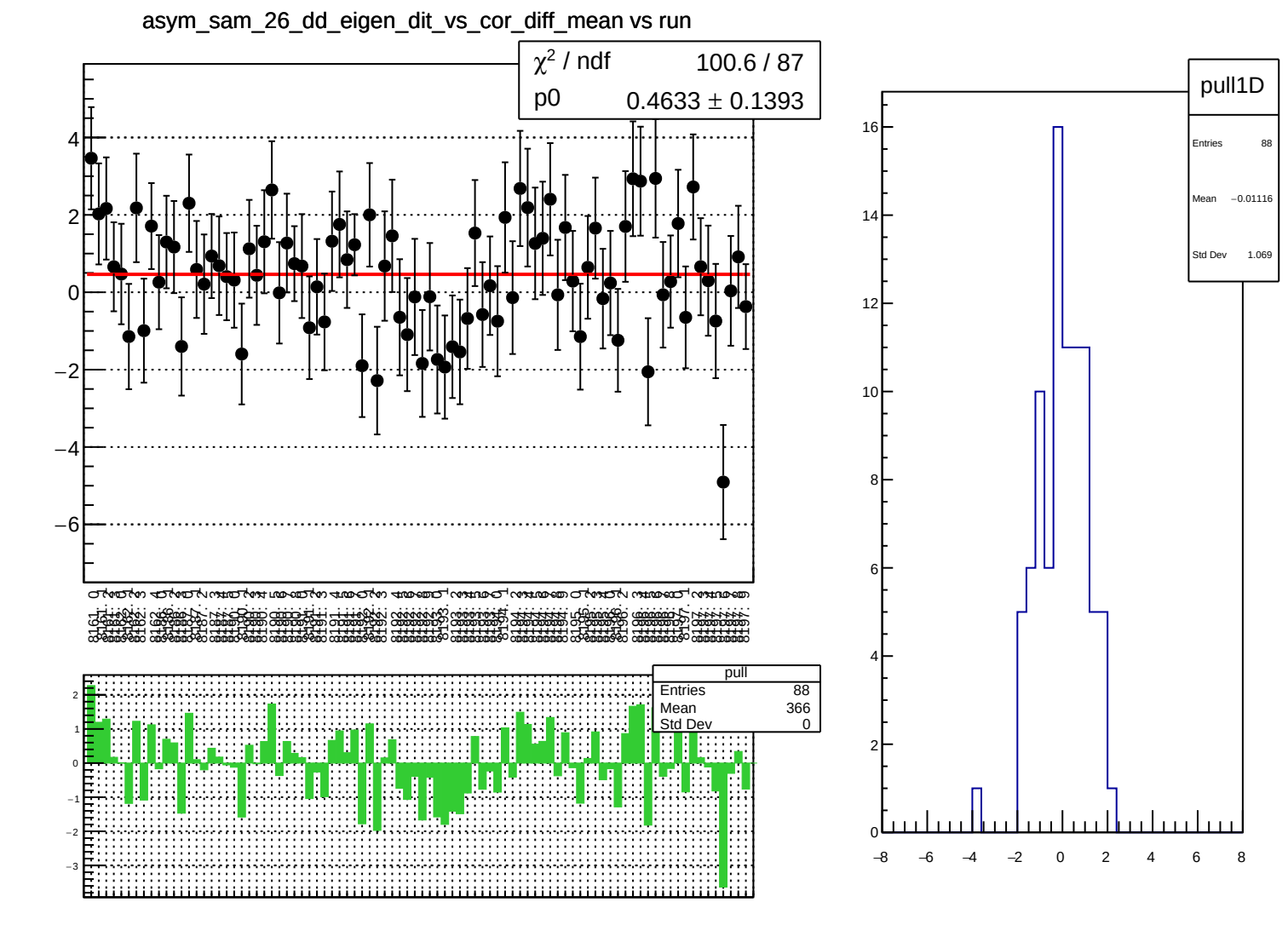

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8379 / 87
p0 126.8 ± 0.09847
150
140
130
120
110
100

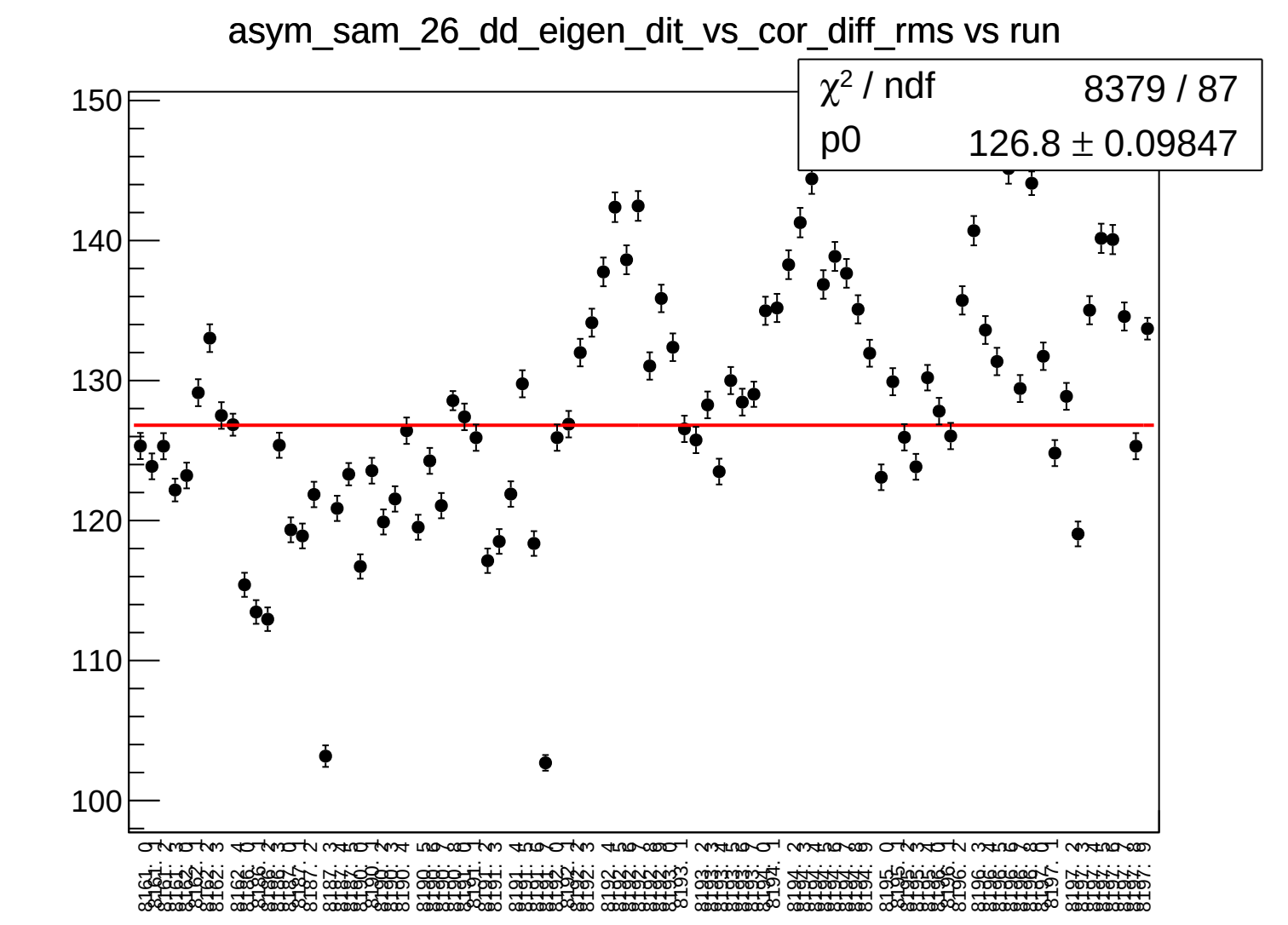

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.6 / 87
p0 0.4632 ± 0.1393
pull
Entries 88
Mean 366
Std Dev 0
pull1D
Entries 88
Mean −0.01116
Std Dev 1.069

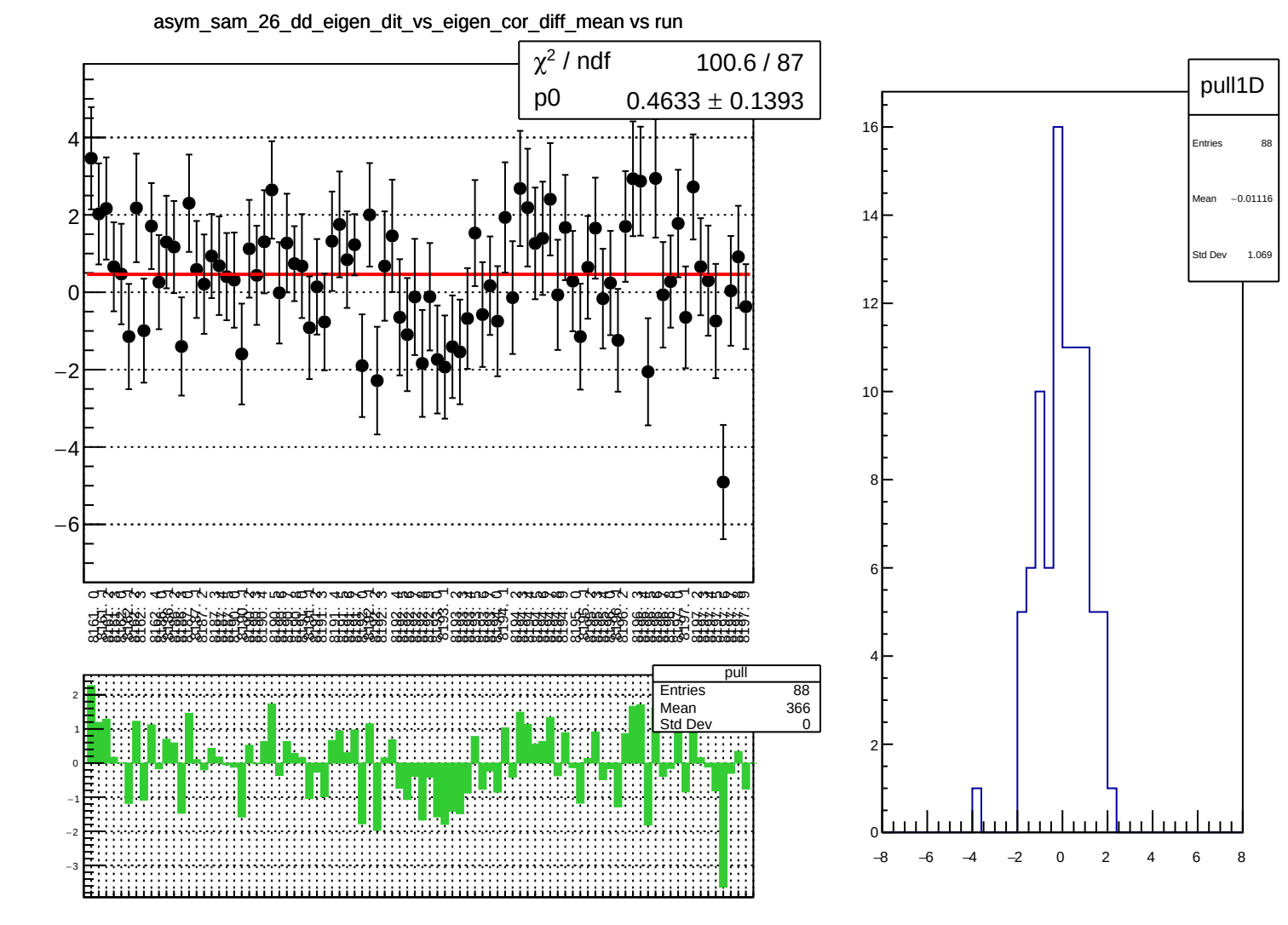

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8379 / 87
p0 126.8 ± 0.09847
150
140
130
120
110
100

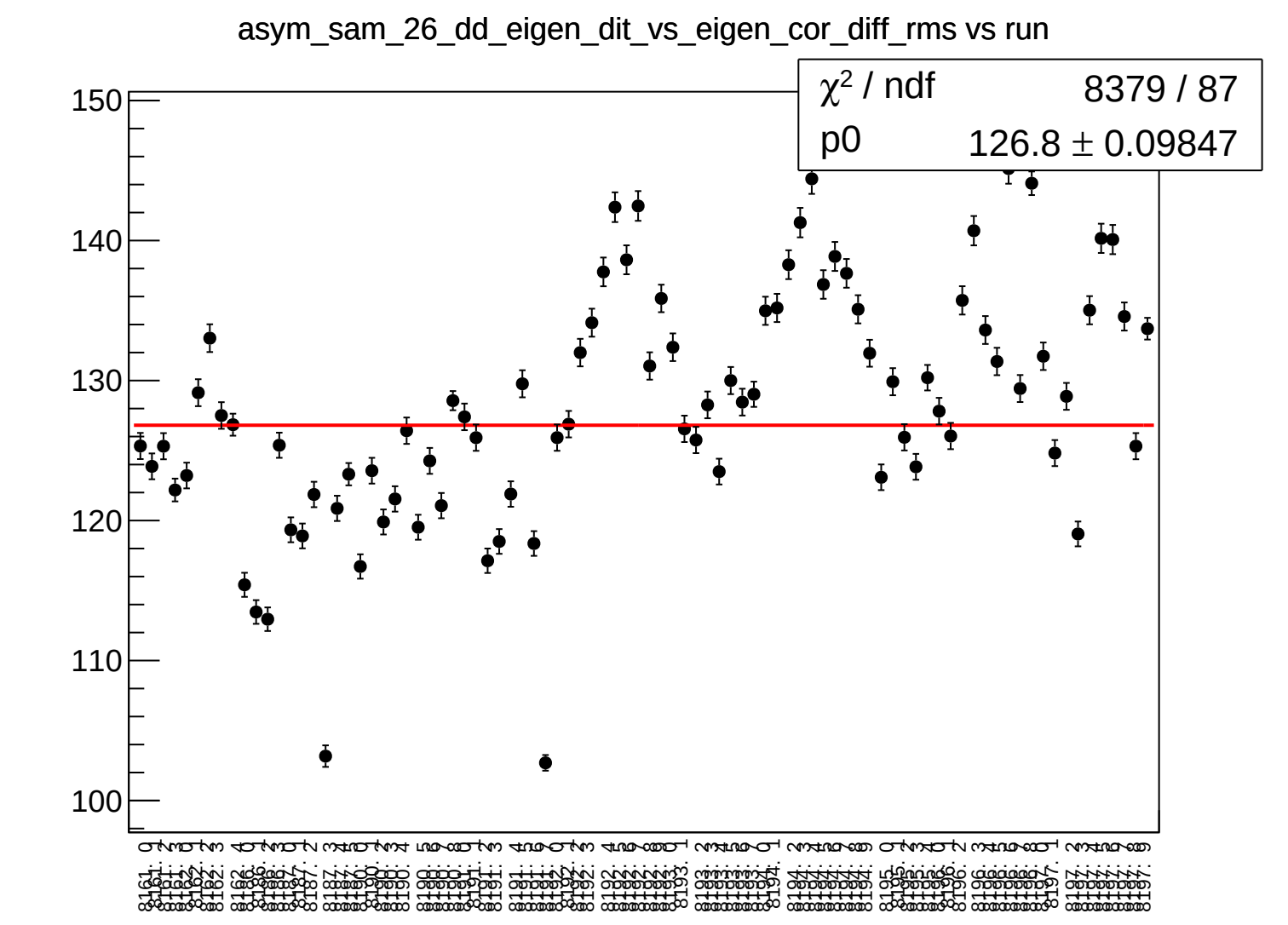

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83.22 / 87
p0 5.172e−06 ± 9.173e−07
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 1.302e+05
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −5.019e−05
Std Dev 0.9725
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

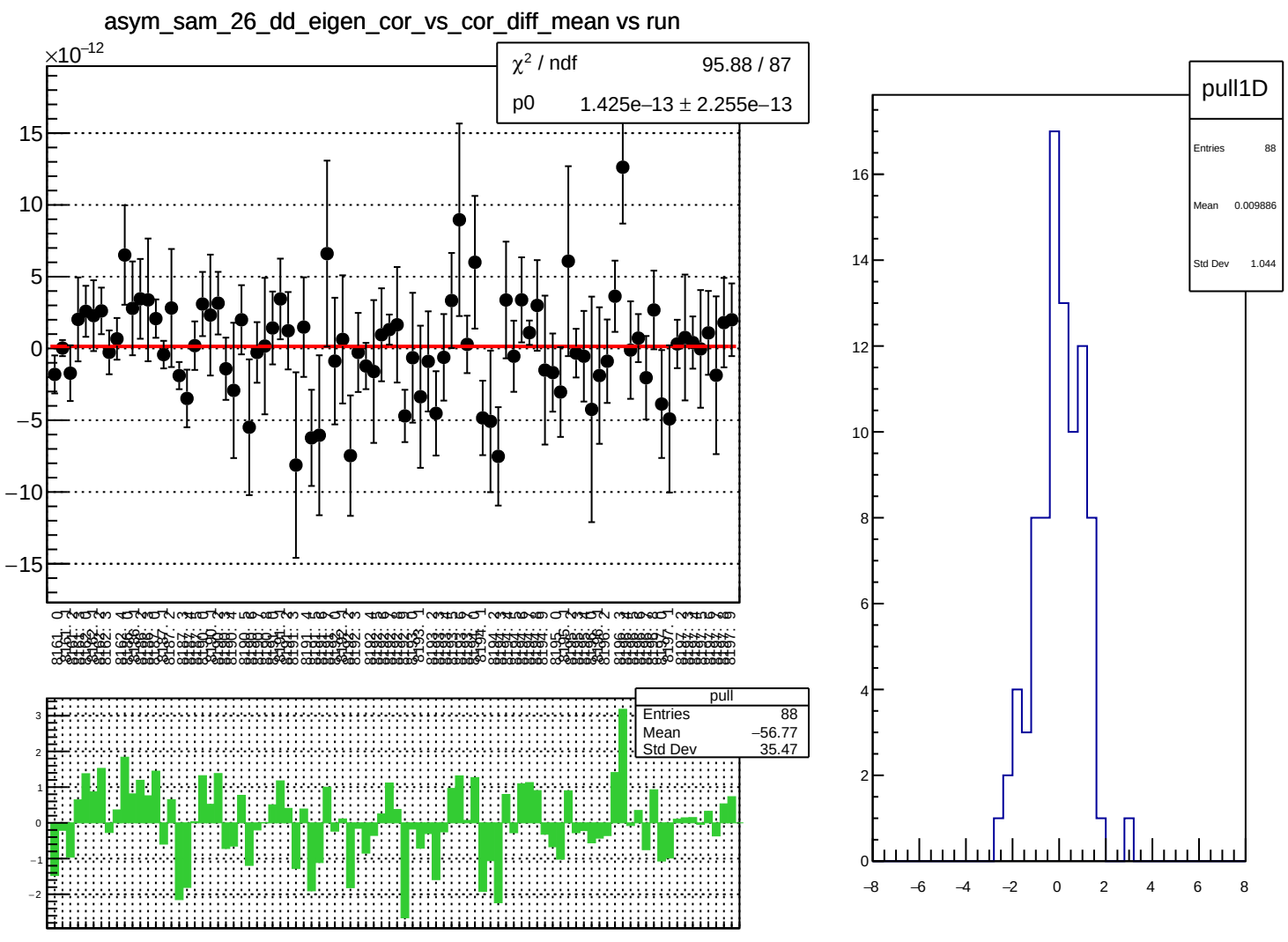

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.13e+05 / 87
p0 0.0008086 ± 6.487e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

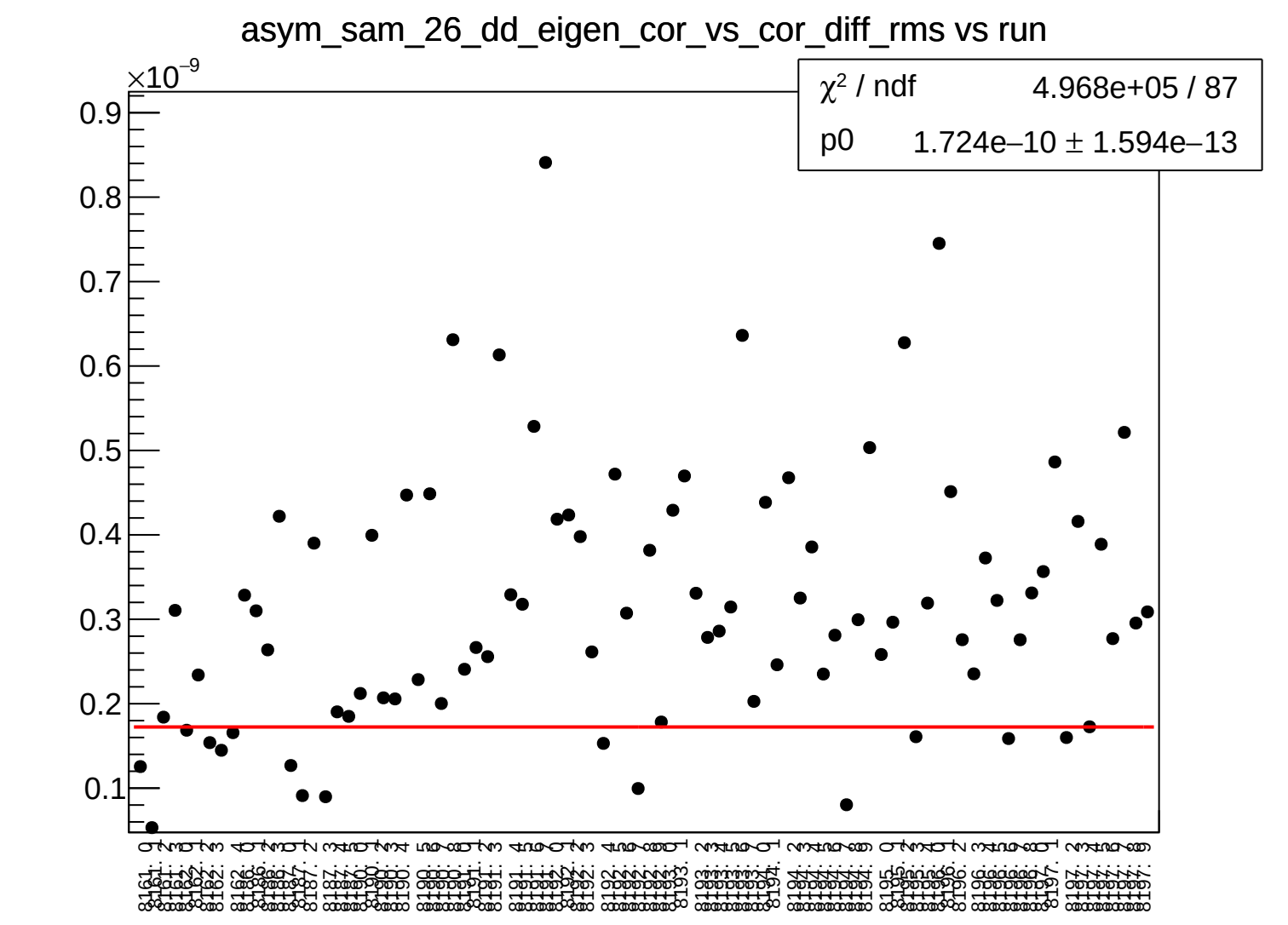

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 87
p0 0.4633 ± 0.1393
pull
Entries 88
Mean 366
Std Dev 0
pull1D
Entries 88
Mean −0.01116
Std Dev 1.069

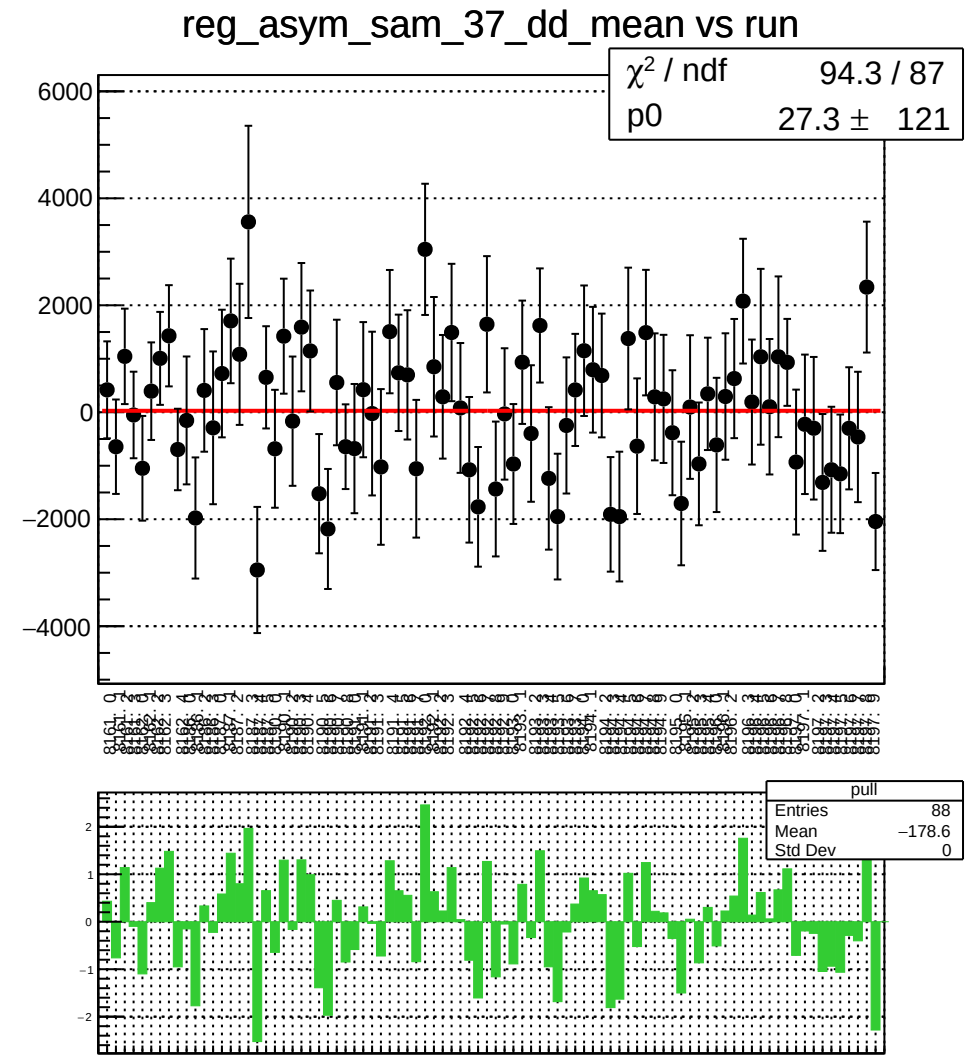

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8379 / 87
p0 126.8 ± 0.09847
150
140
130
120
110
100

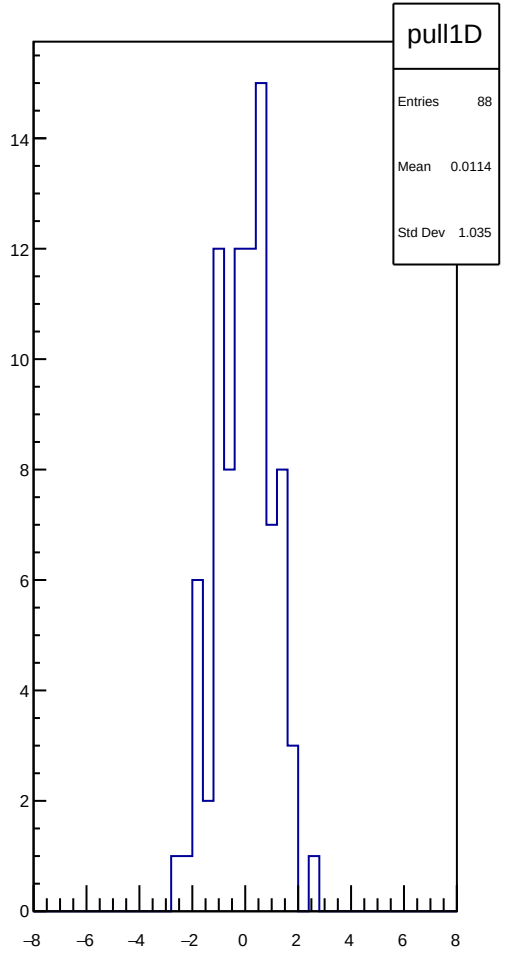

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.6 / 87
p0 0.4633 ± 0.1393
pull
Entries 88
Mean 366
Std Dev 0
pull1D
Entries 88
Mean −0.01116
Std Dev 1.069

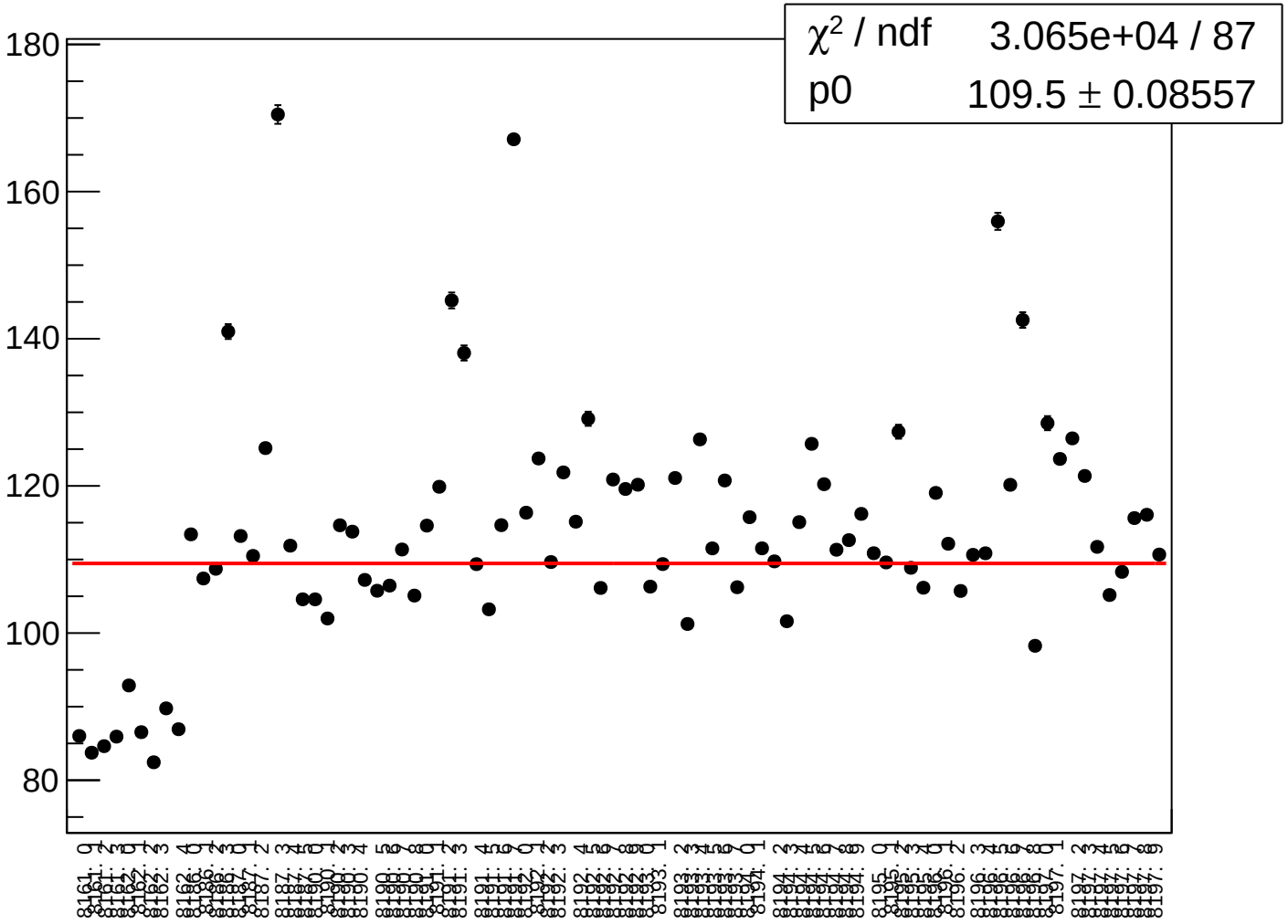

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8379 / 87
p0 126.8 ± 0.09847
150
140
130
120
110
100

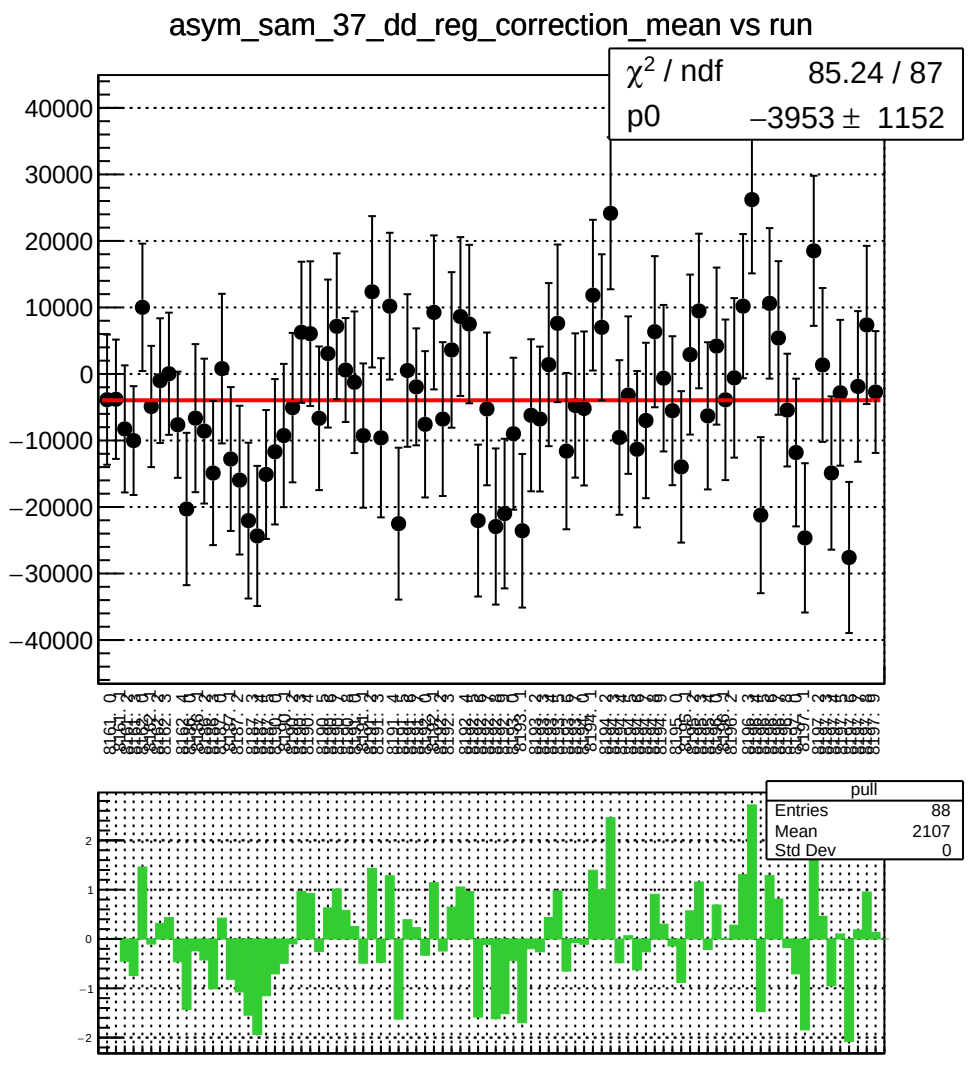

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.88 / 87
p0 1.425e−13 ± 2.255e−13
15
10
5
0
−5
−10
−15
pull
Entries 88
Mean −56.77
Std Dev 35.47
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.009886
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

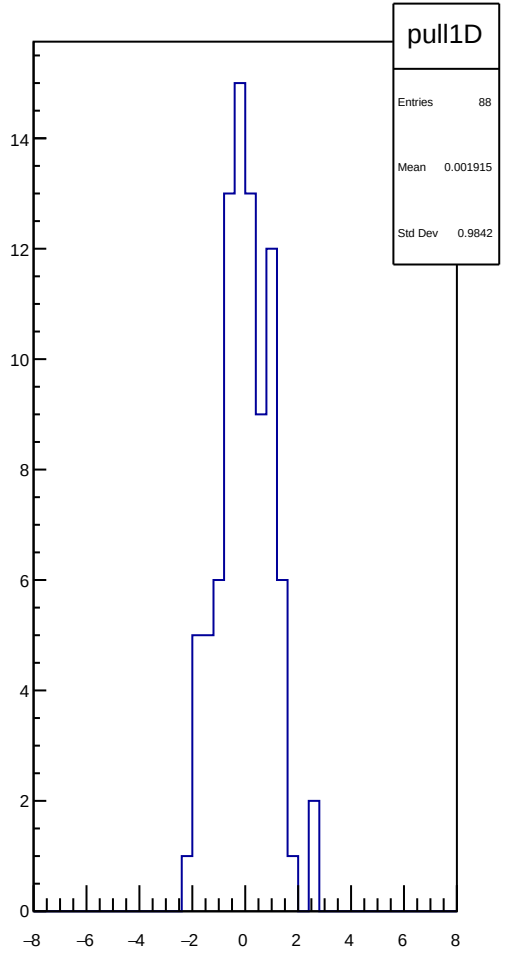

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.968e+05 / 87
p0 1.724e−10 ± 1.594e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

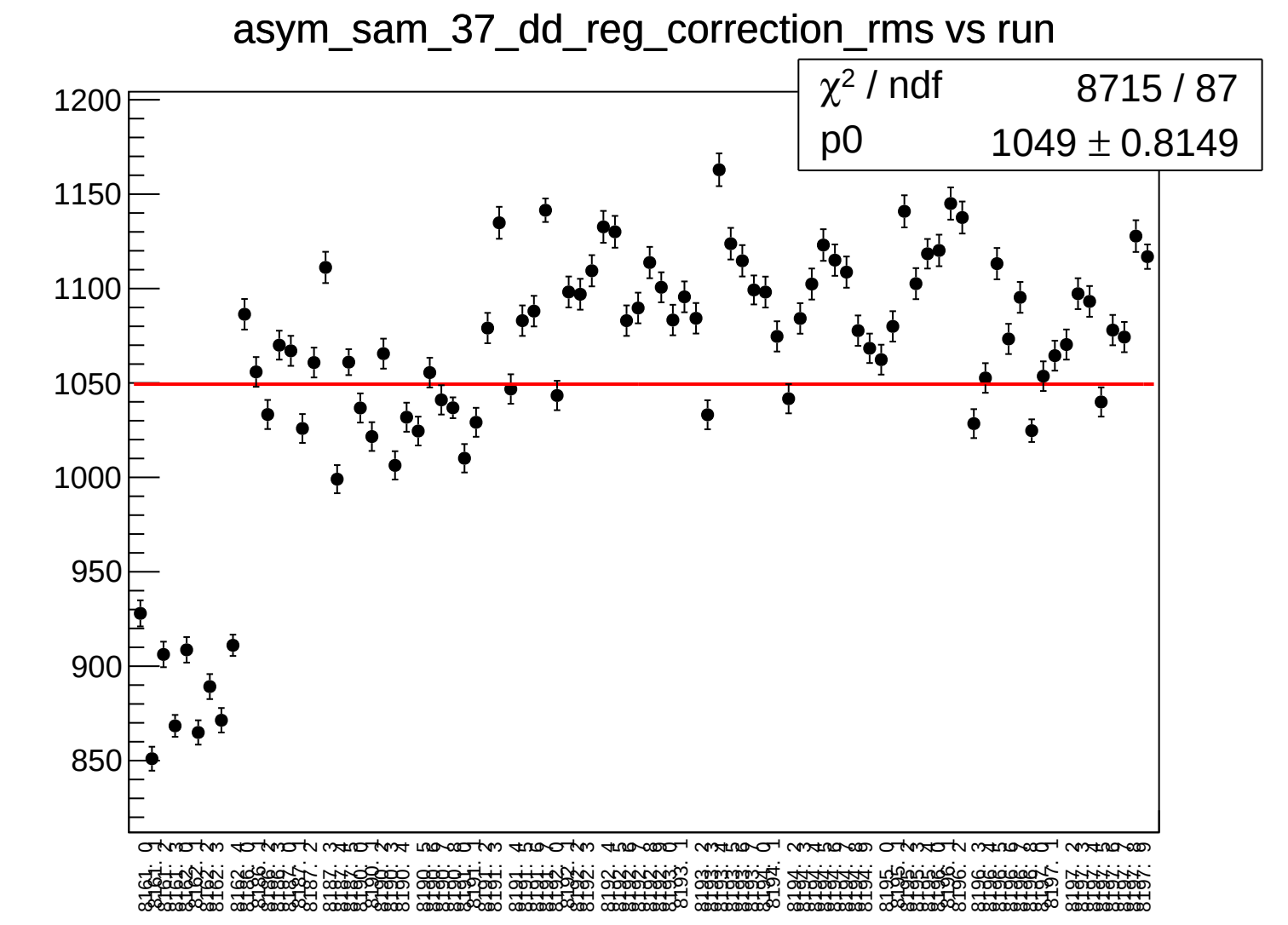

reg_asym_sam_37_dd_mean vs run
χ² / ndf 94.3 / 87
p0 27.3 ± 121
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −178.6
Std Dev 0
2
1
0
−1
−2

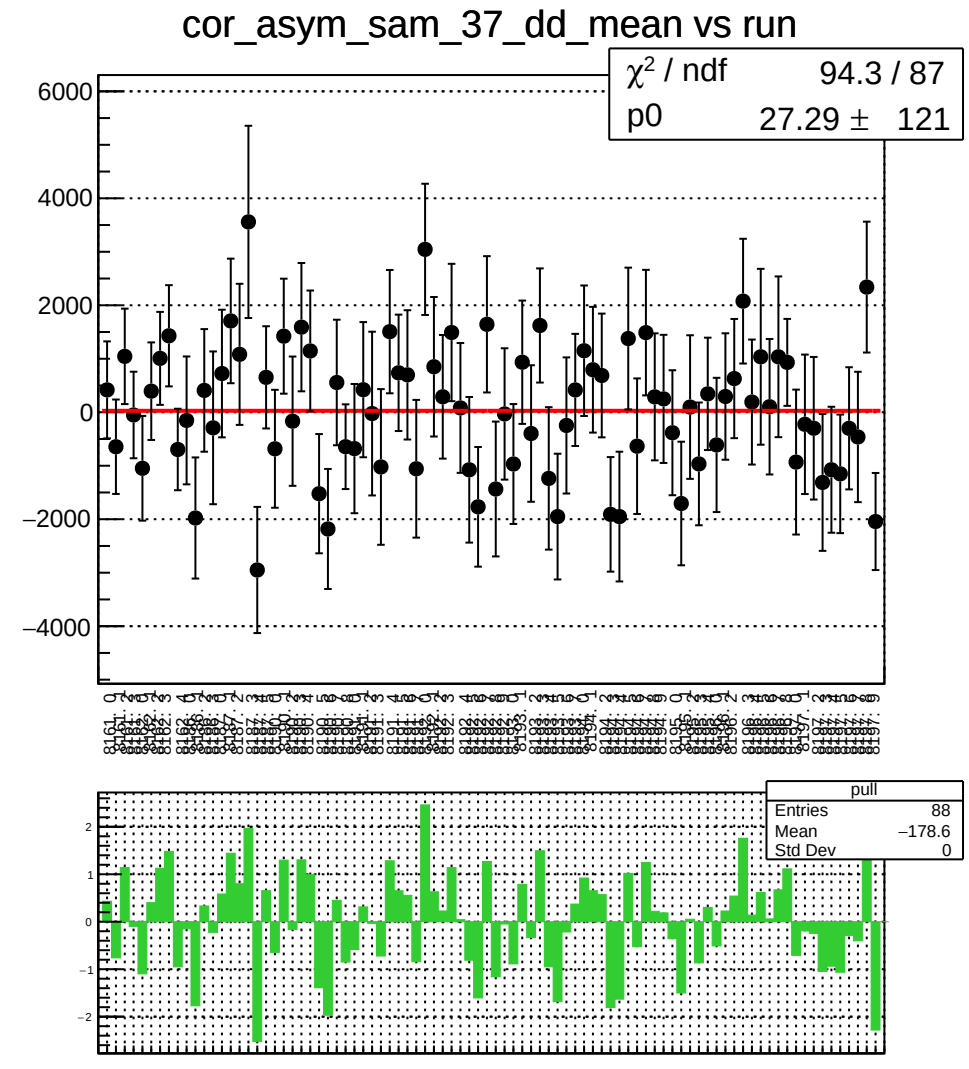

pull1D
Entries 88
Mean 0.0114
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

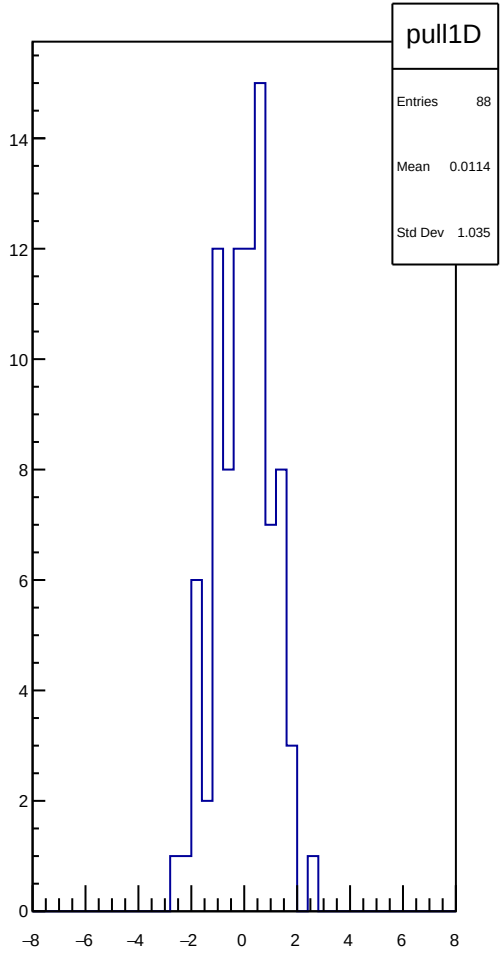

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3.065e+04 / 87
p0 109.5 ± 0.08557
180
160
140
120
100
80

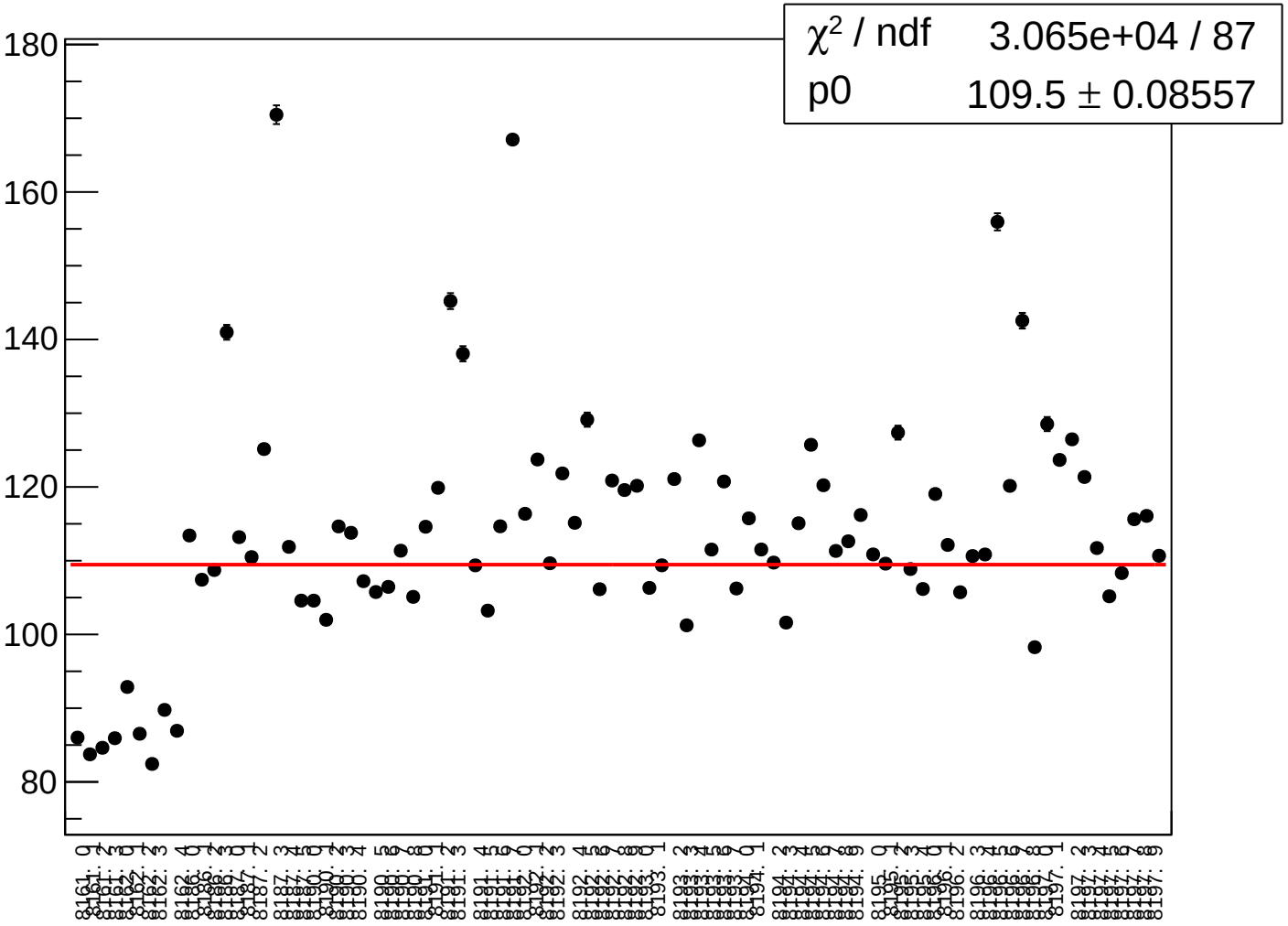

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 85.24 / 87
p0 −3953 ± 1152
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 2107
Std Dev 0
2
1
0
−1
−2

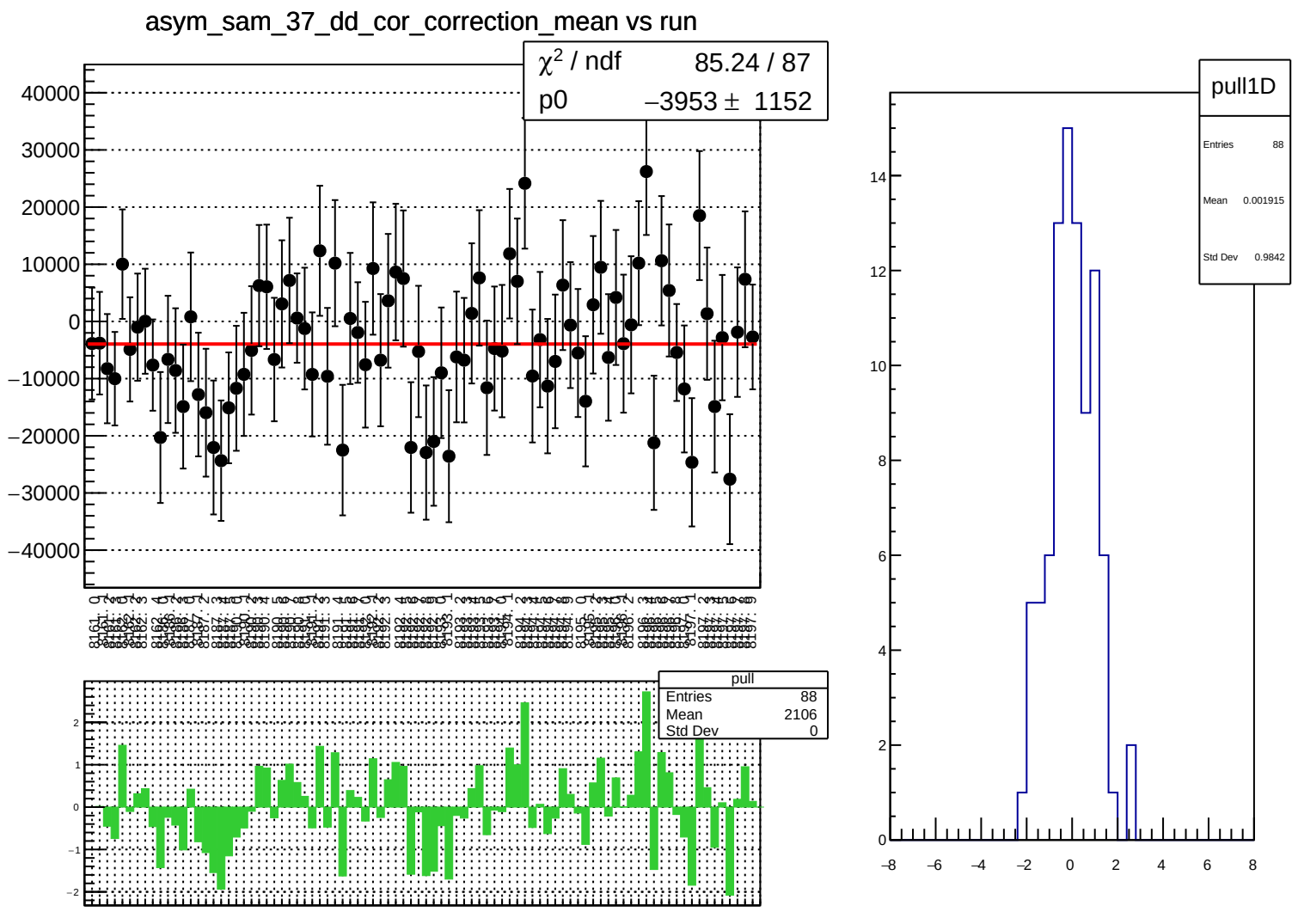

pull1D
Entries 88
Mean 0.001915
Std Dev 0.9842
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

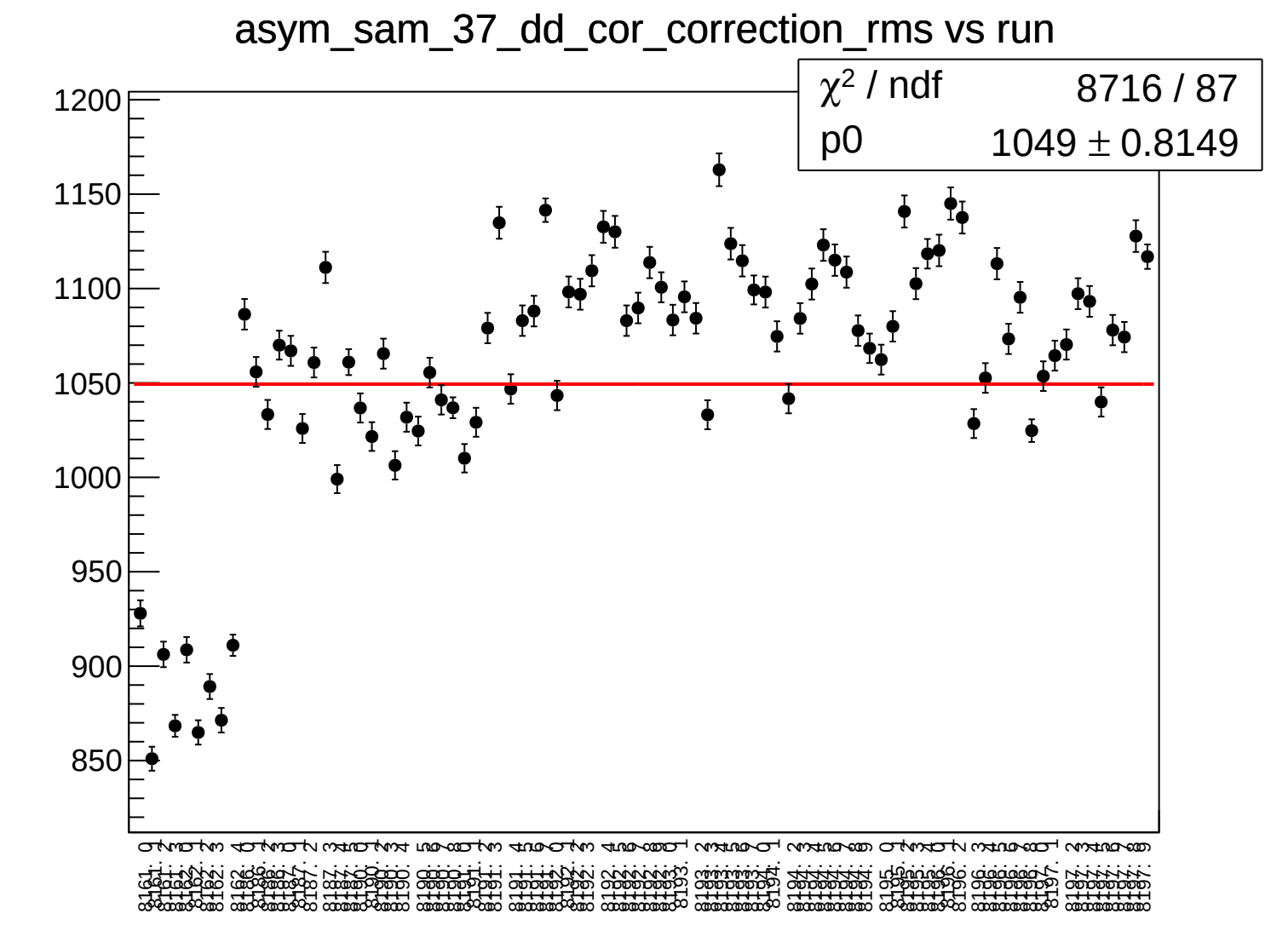

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 8715 / 87
p0 1049 ± 0.8149
1200
1150
1100
1050
1000
950
900
850

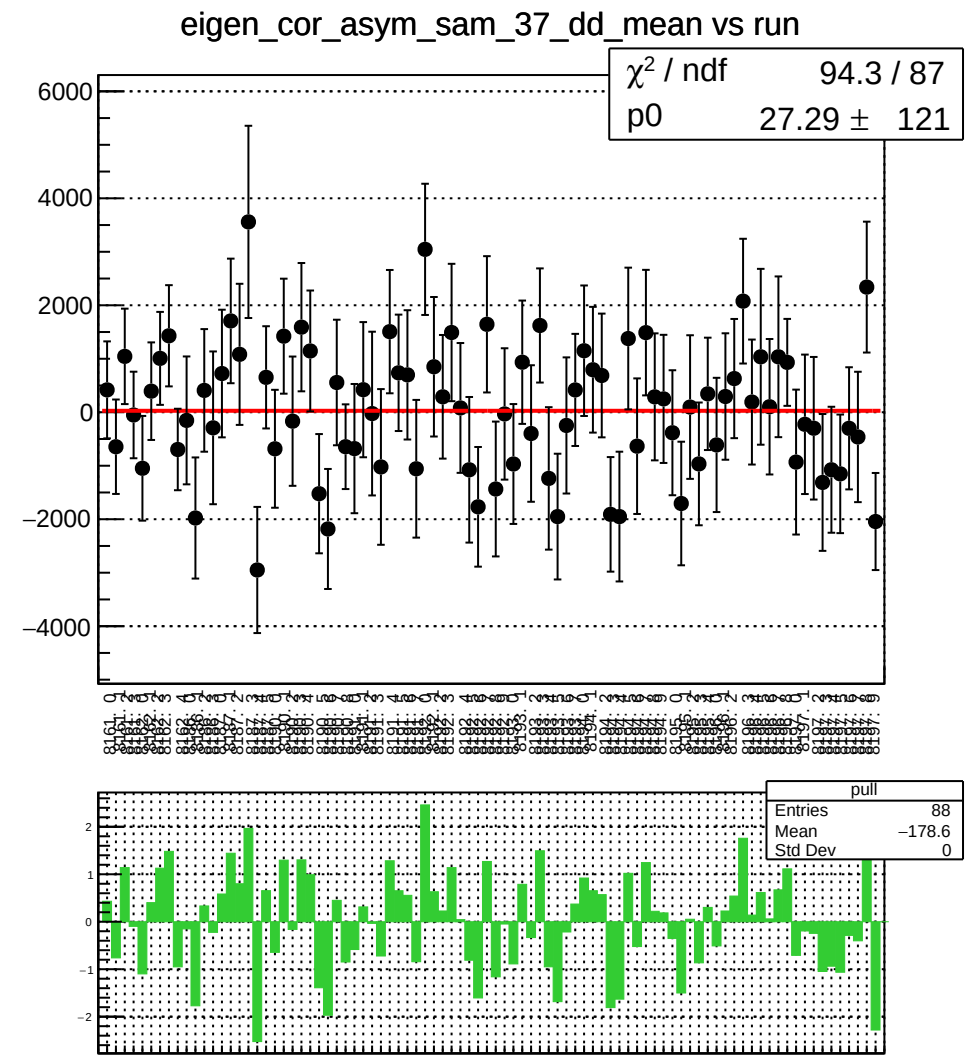

cor_asym_sam_37_dd_mean vs run
χ² / ndf 94.3 / 87
p0 27.29 ± 121
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −178.6
Std Dev 0
2
1
0
−1
−2

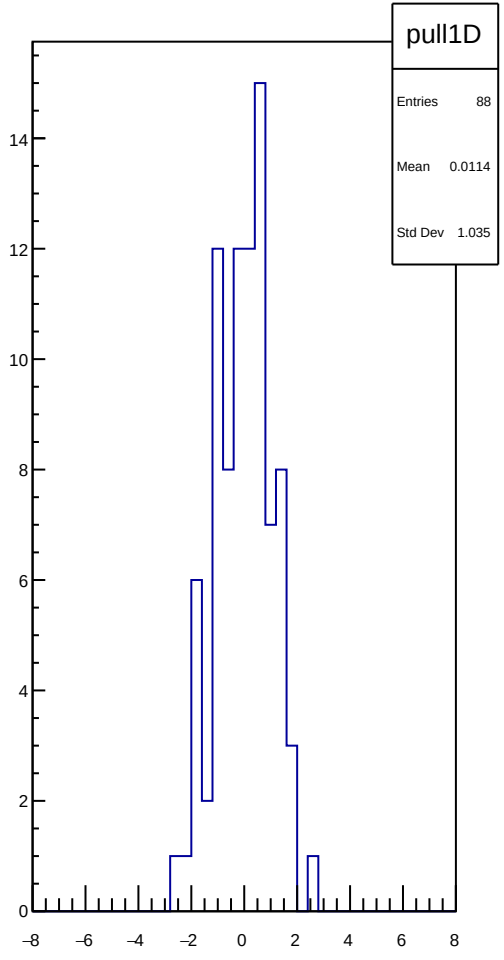

pull1D
Entries 88
Mean 0.0114
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

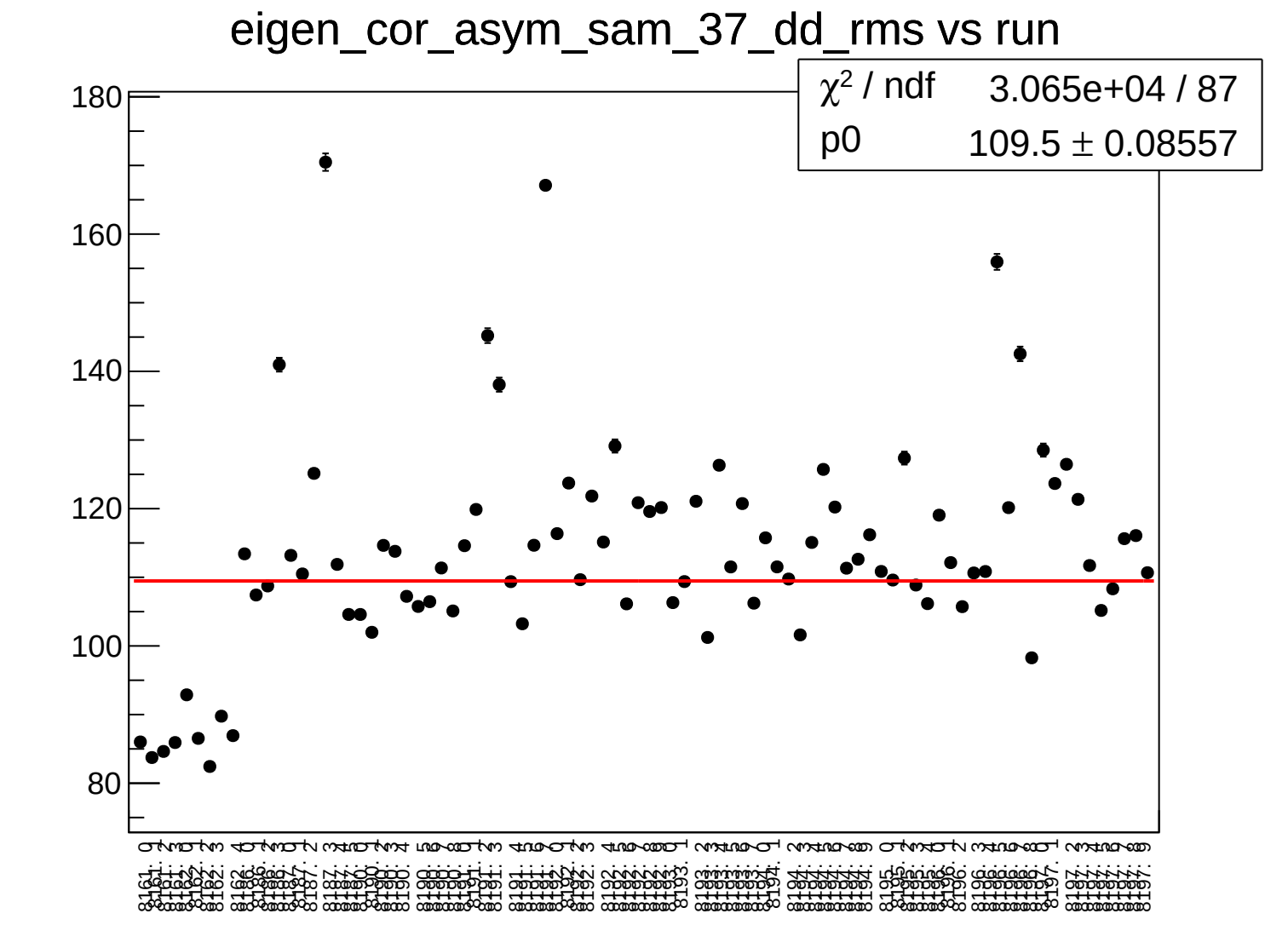

cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.065e+04 / 87
p0 109.5 ± 0.08557
180
160
140
120
100
80

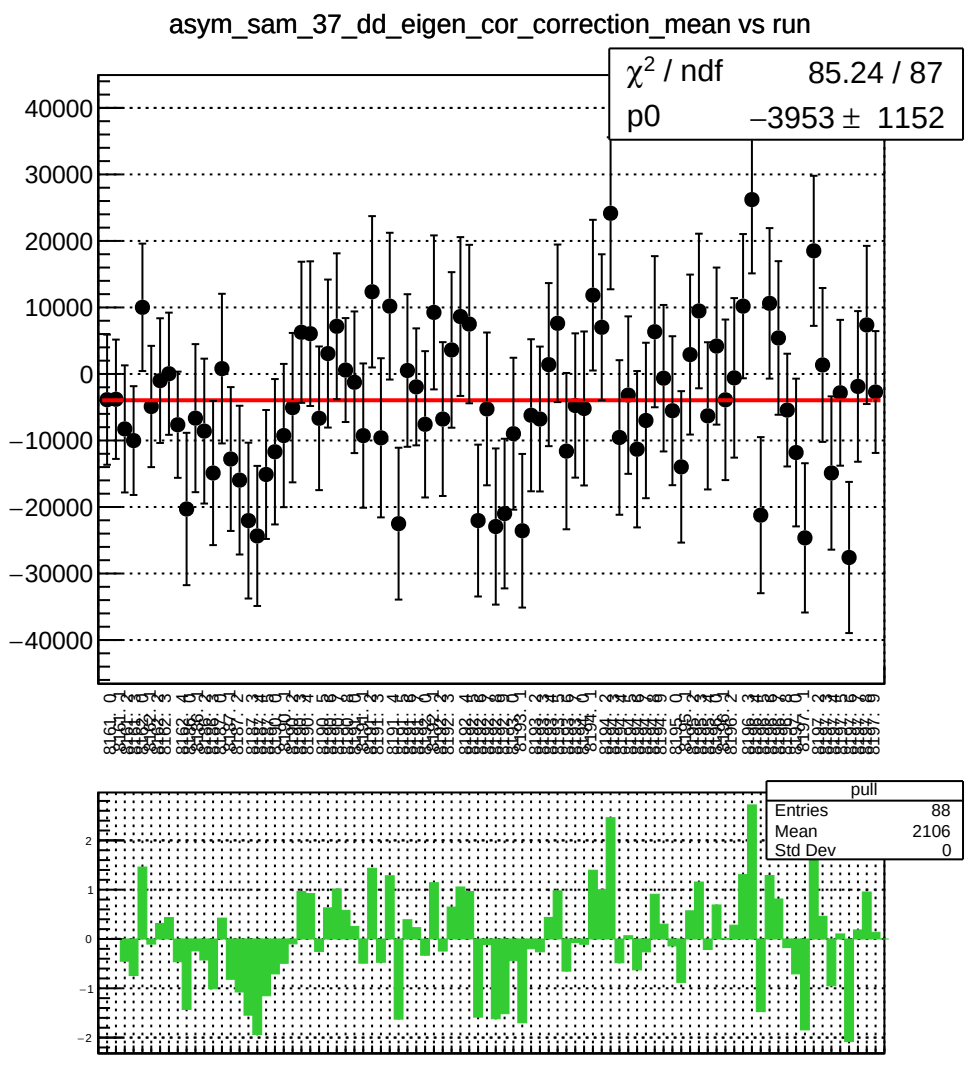

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 85.24 / 87
p0 −3953 ± 1152
pull
Entries 88
Mean 2106
Std Dev 0
pull1D
Entries 88
Mean 0.001915
Std Dev 0.9842

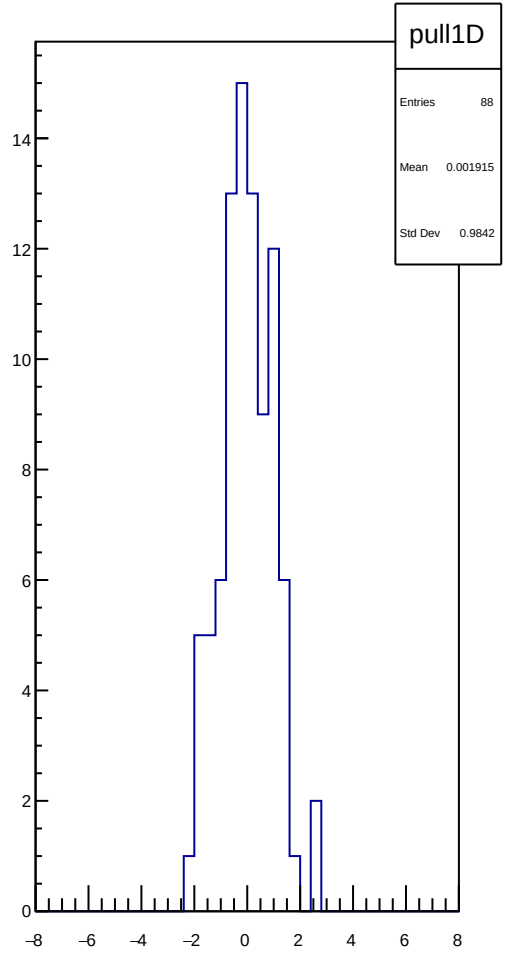

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 8716 / 87
p0 1049 ± 0.8149
1200
1150
1100
1050
1000
950
900
850

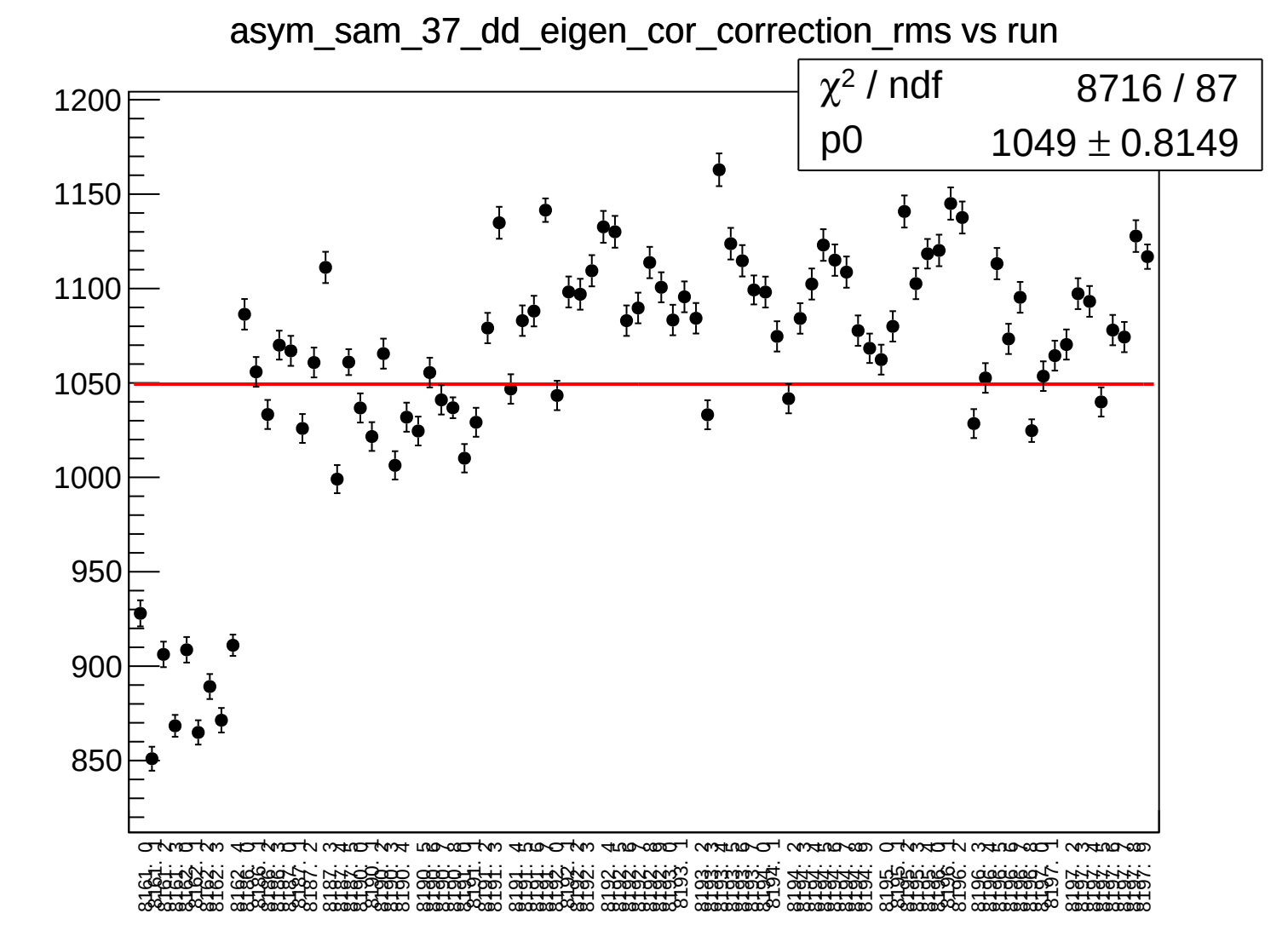

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 94.3 / 87
p0 27.29 ± 121
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −178.6
Std Dev 0
2
1
0
−1
−2

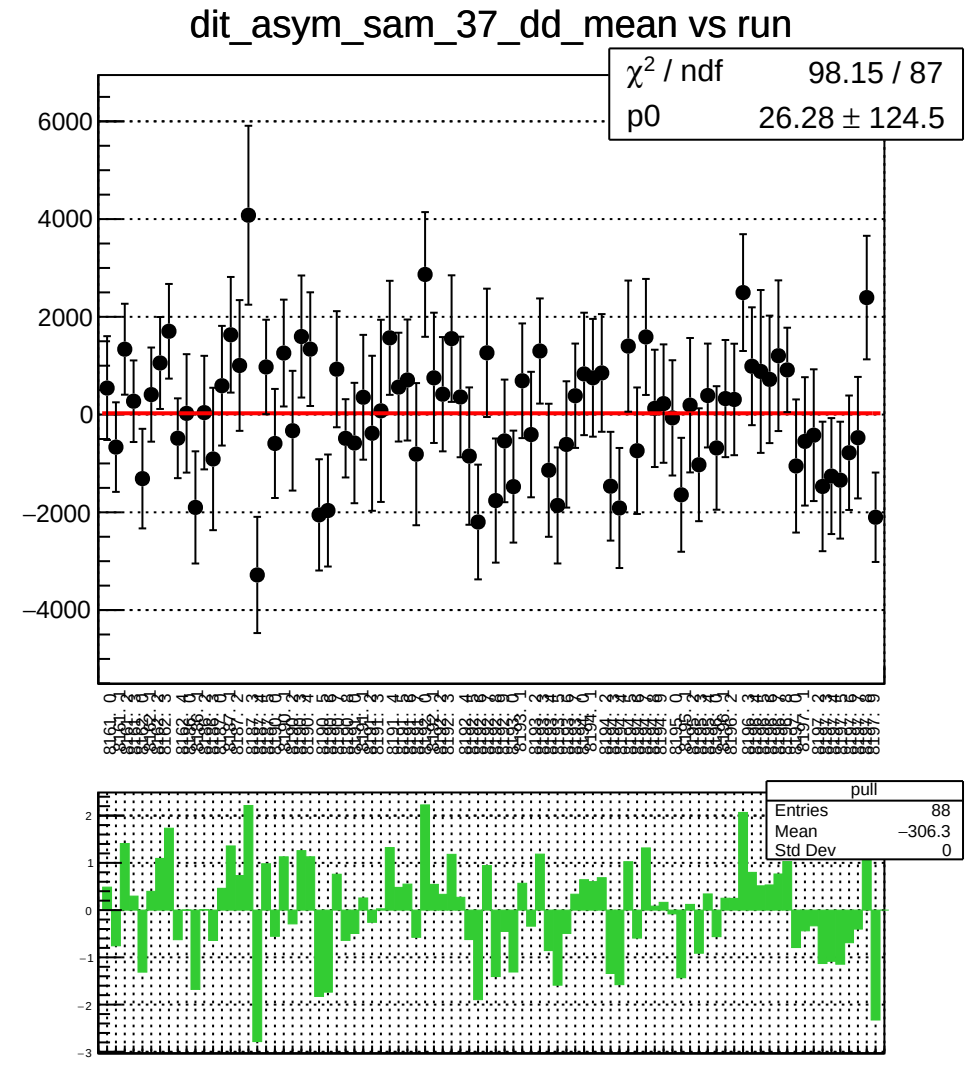

pull1D
Entries 88
Mean 0.0114
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

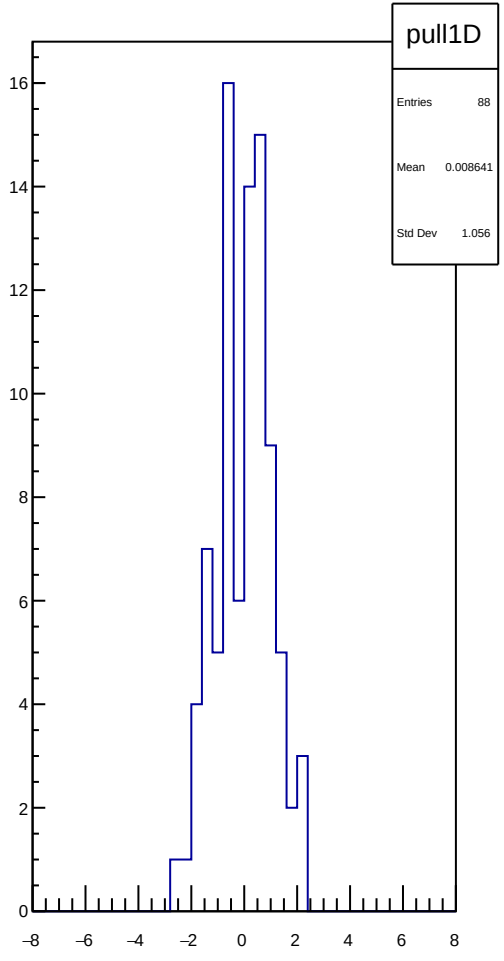

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.065e+04 / 87
p0 109.5 ± 0.08557
180
160
140
120
100
80

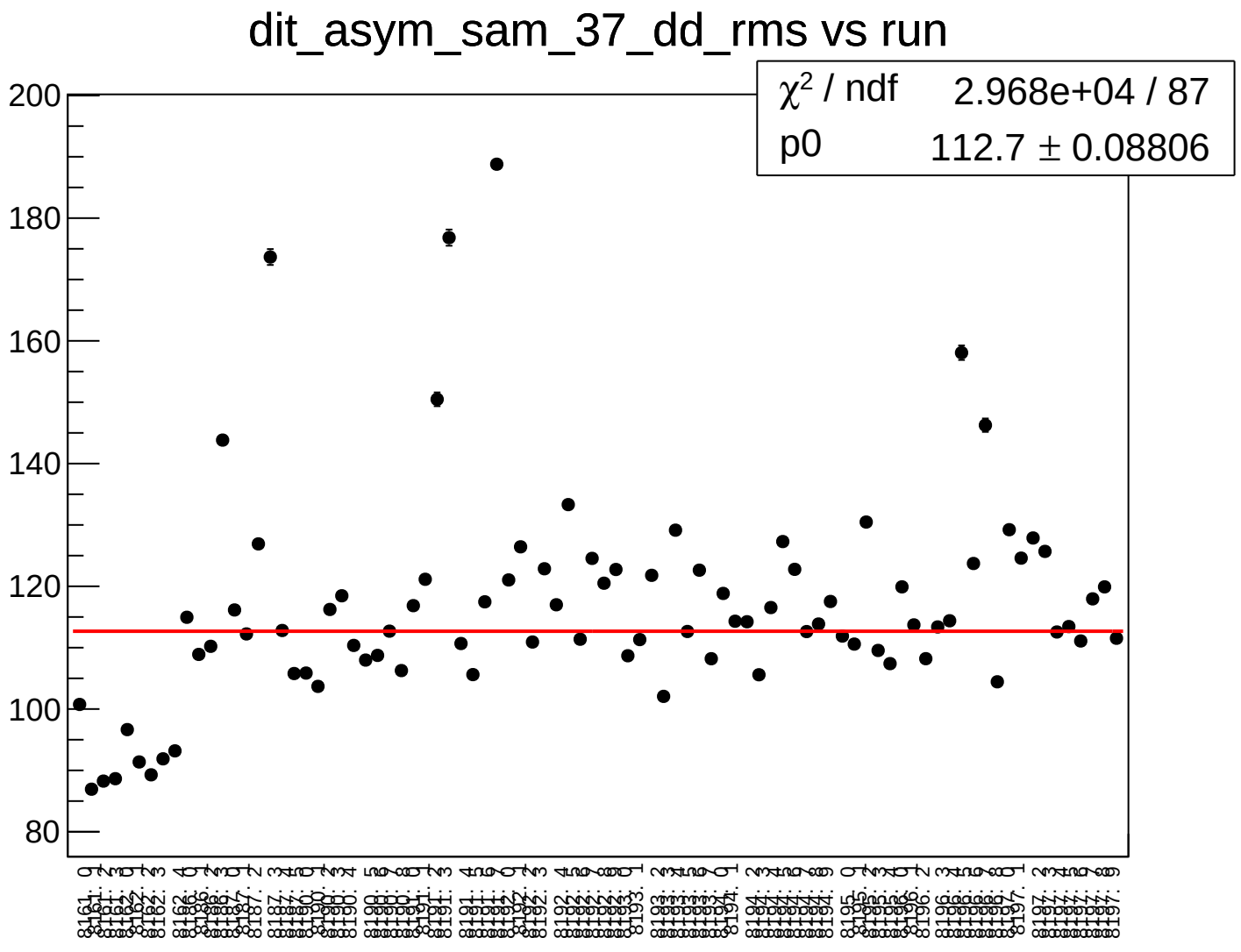

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.24 / 87
p0 −3953 ± 1152
pull
Entries 88
Mean 2106
Std Dev 0

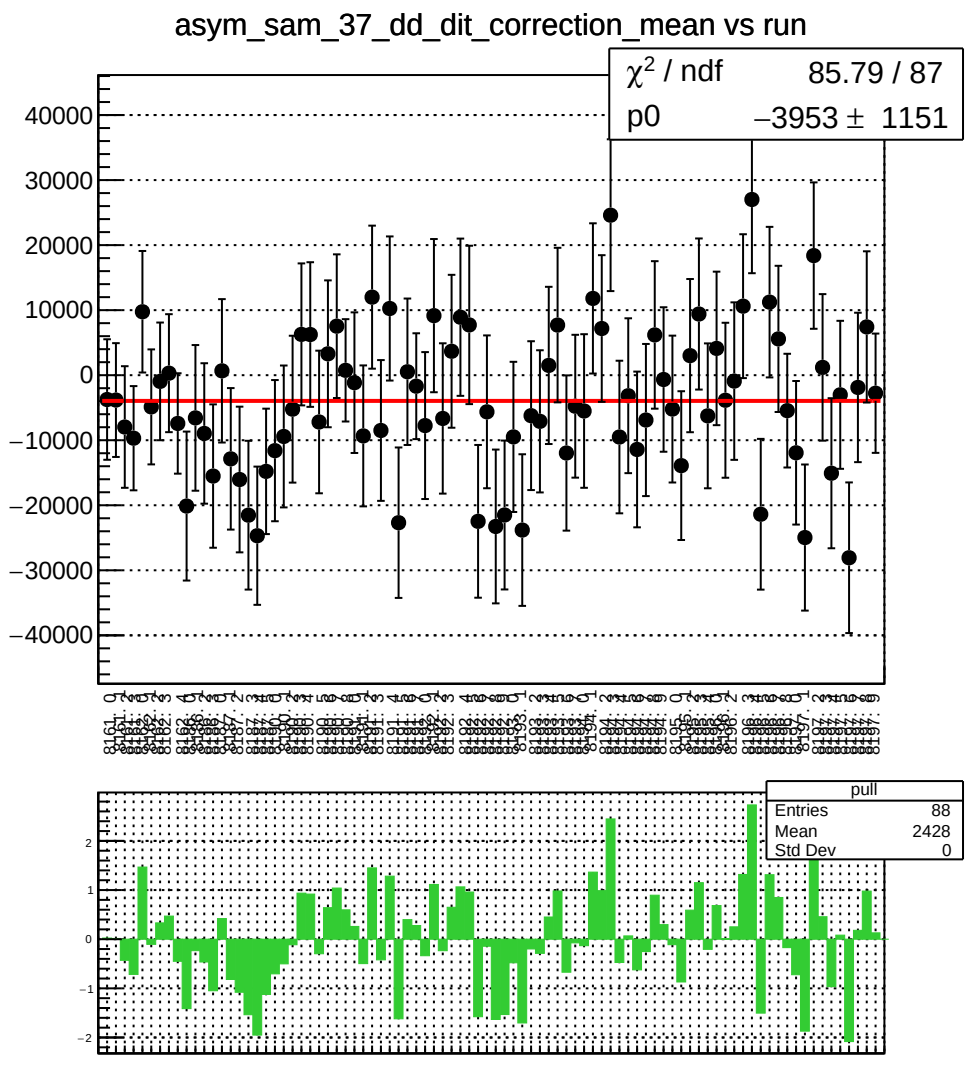

pull1D
Entries 88
Mean 0.001915
Std Dev 0.9842

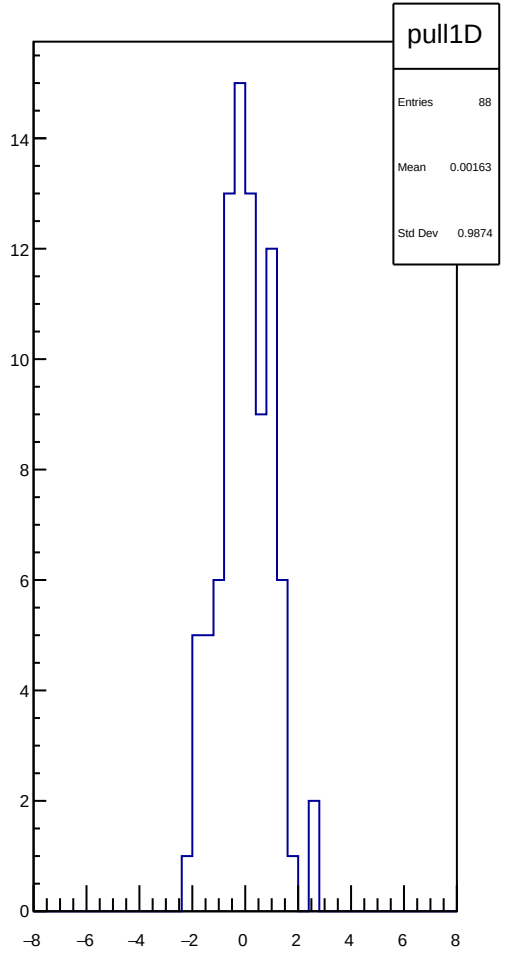

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 8716 / 87
p0 1049 ± 0.8149
1200
1150
1100
1050
1000
950
900
850

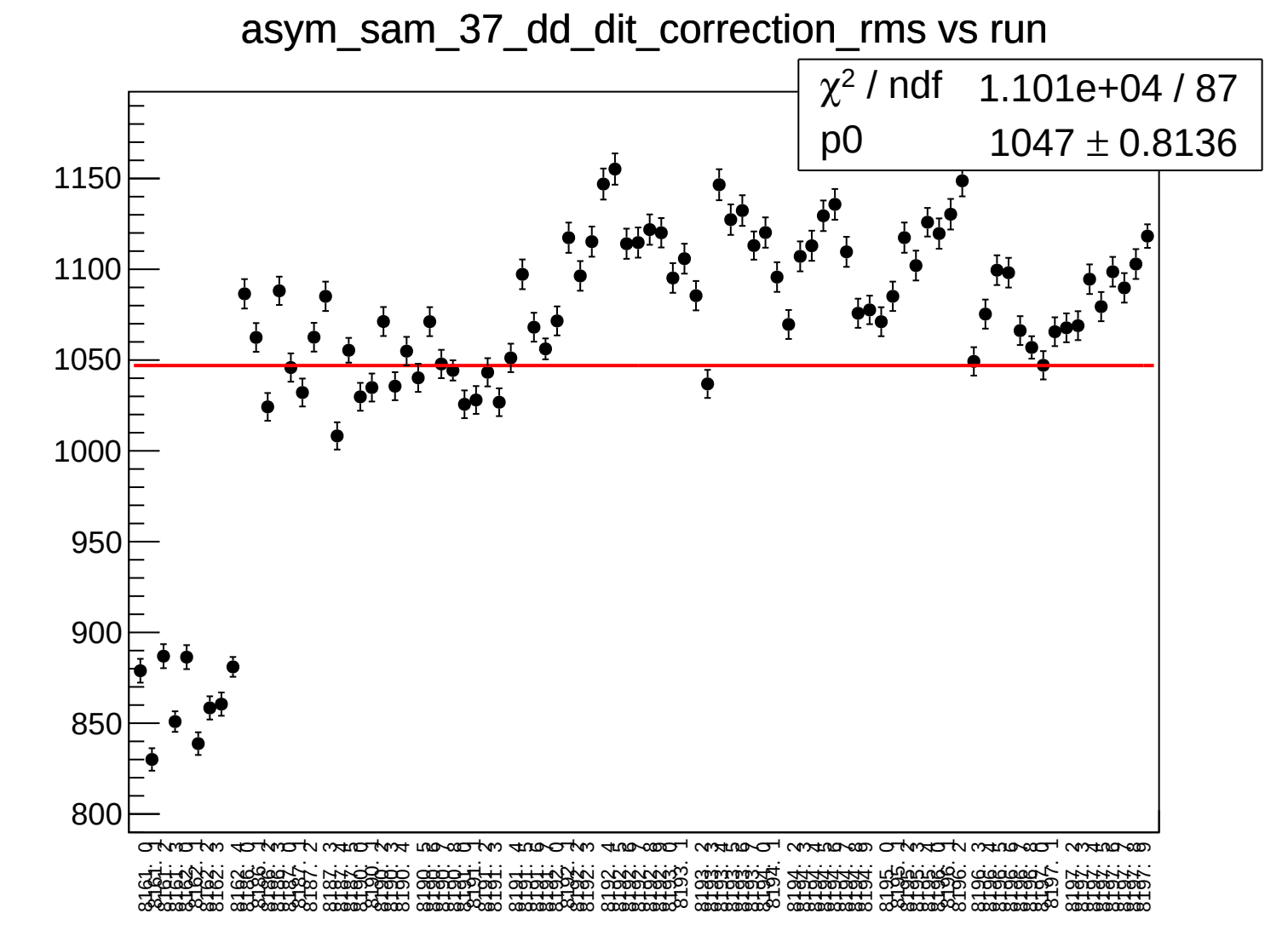

dit_asym_sam_37_dd_mean vs run
χ² / ndf 98.15 / 87
p0 26.28 ± 124.5
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −306.3
Std Dev 0
2
1
0
−1
−2
−3

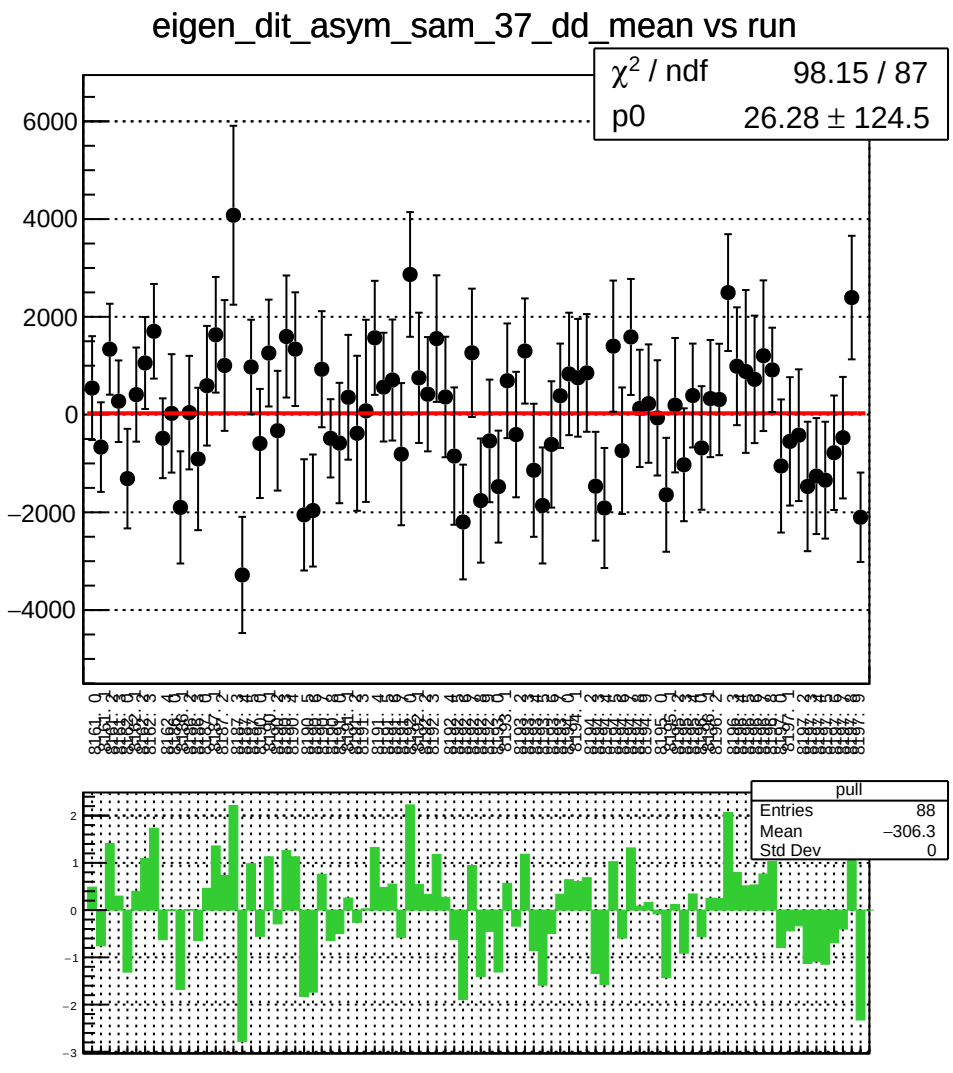

pull1D
Entries 88
Mean 0.008641
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

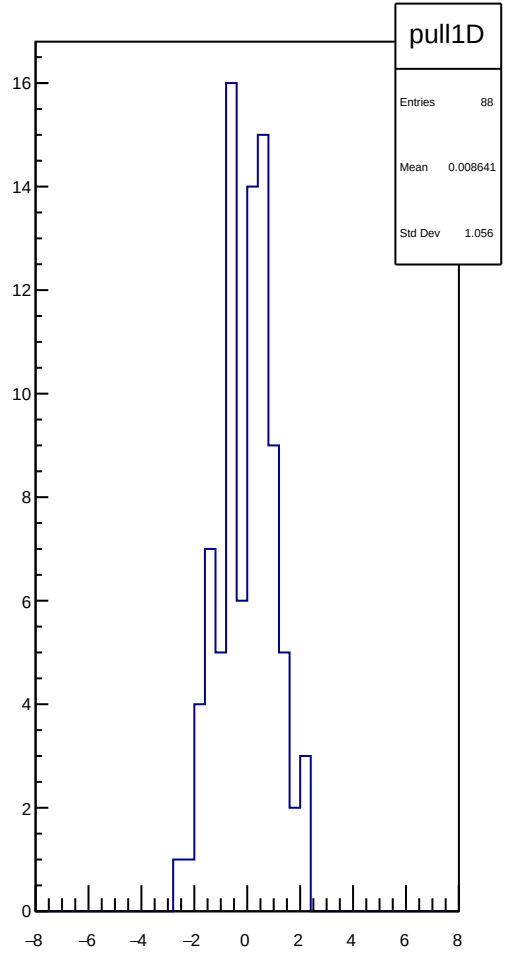

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.968e+04 / 87
p0 112.7 ± 0.08806
200
180
160
140
120
100
80

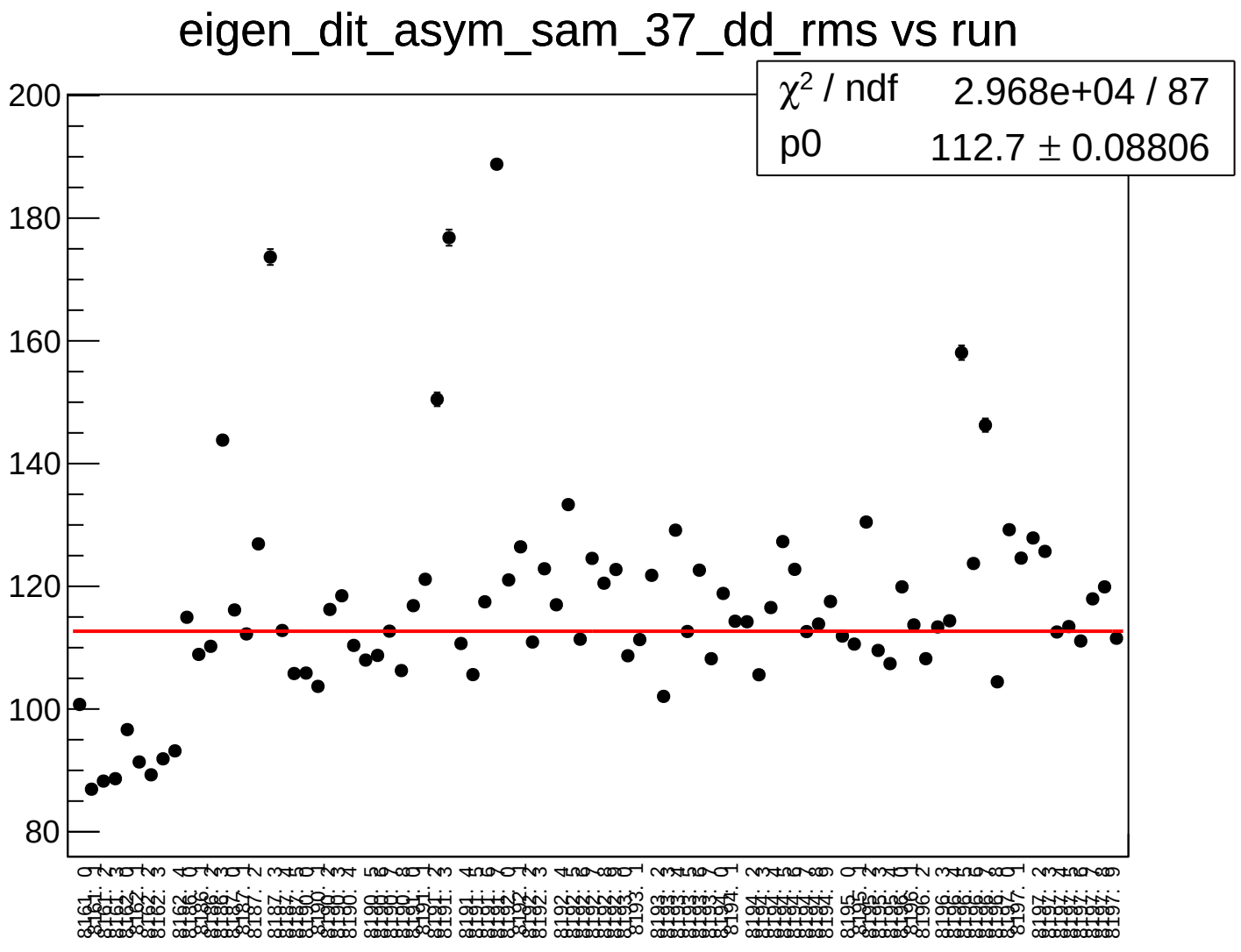

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 85.79 / 87
p0 −3953 ± 1151
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 2428
Std Dev 0
2
1
0
−1
−2

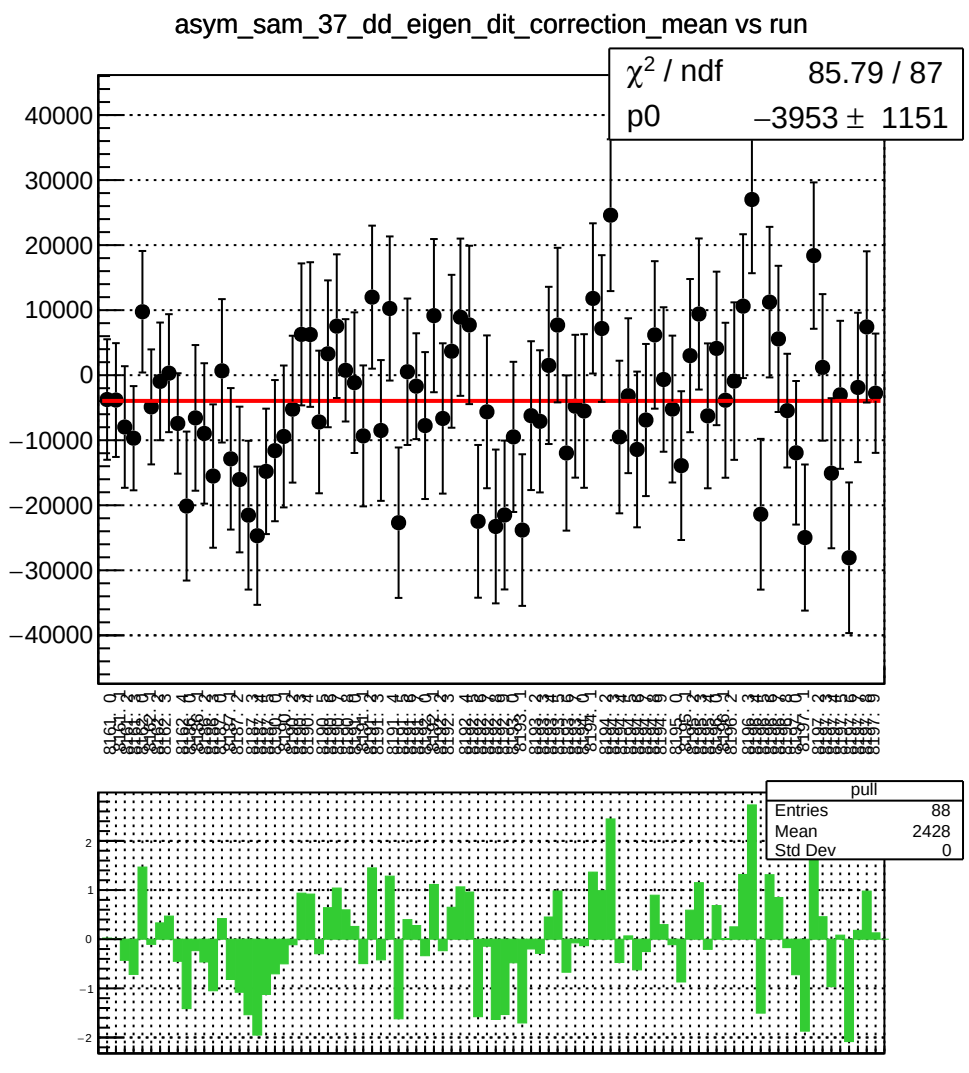

pull1D
Entries 88
Mean 0.00163
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

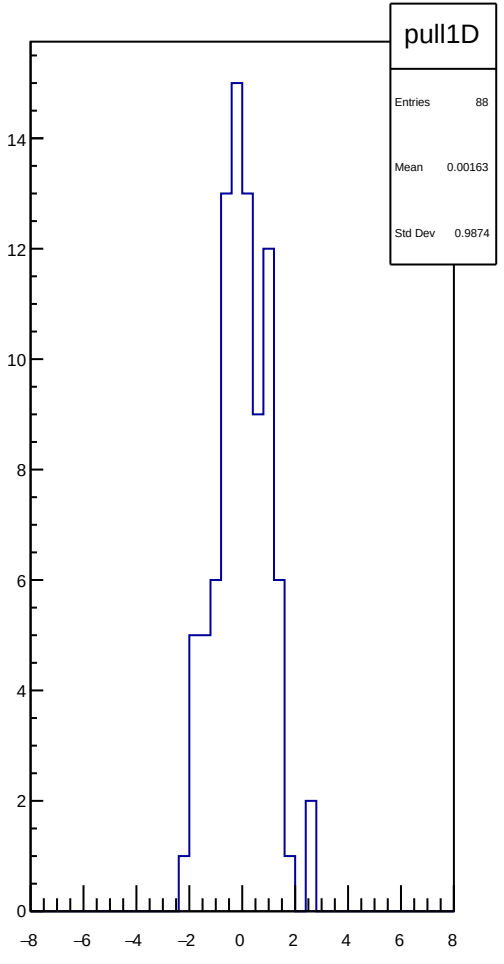

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.101e+04 / 87
p0 1047 ± 0.8136
1150
1100
1050
1000
950
900
850
800

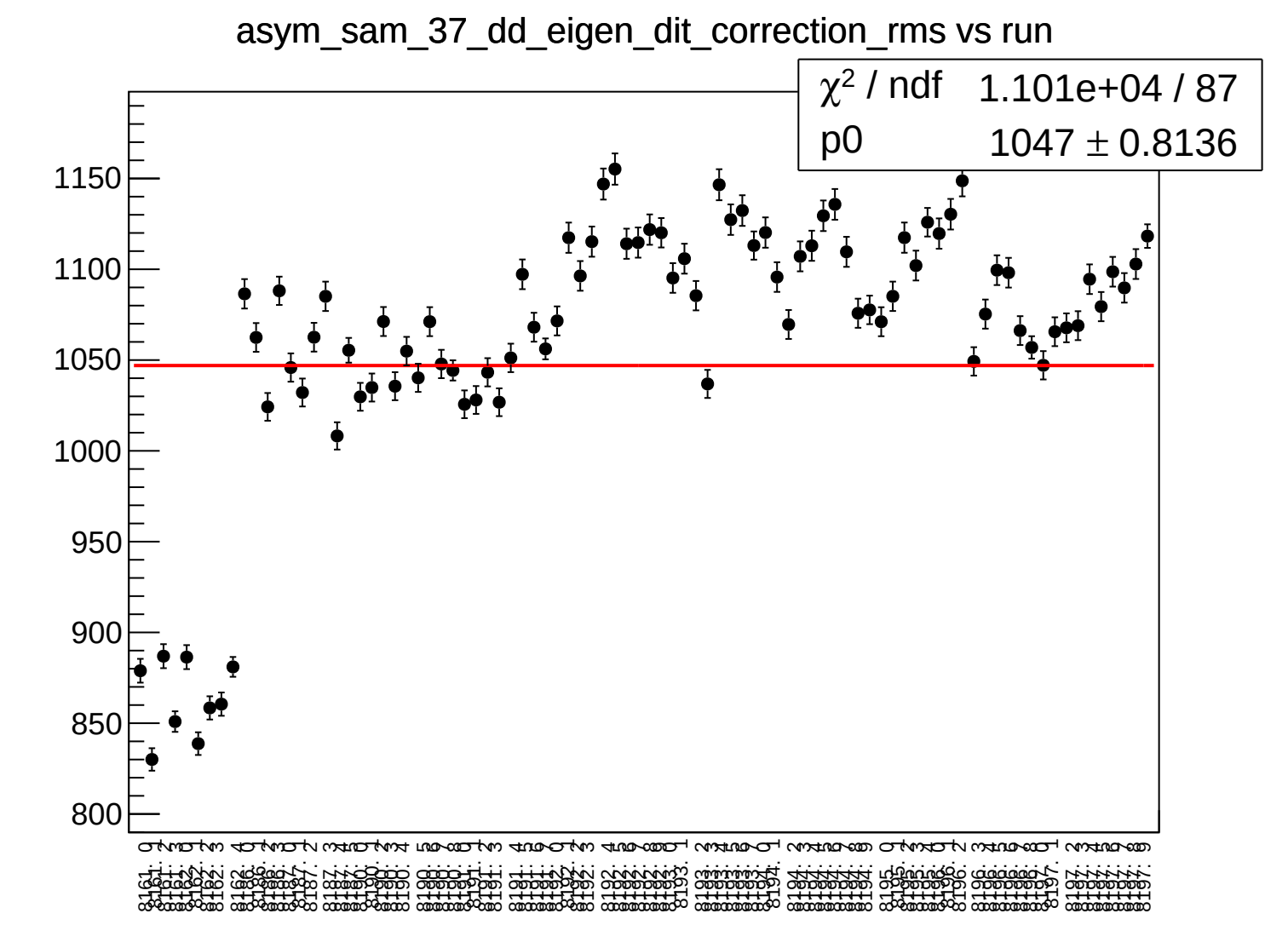

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 98.15 / 87
p0 26.28 ± 124.5
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −306.3
Std Dev 0
2
1
0
−1
−2
−3

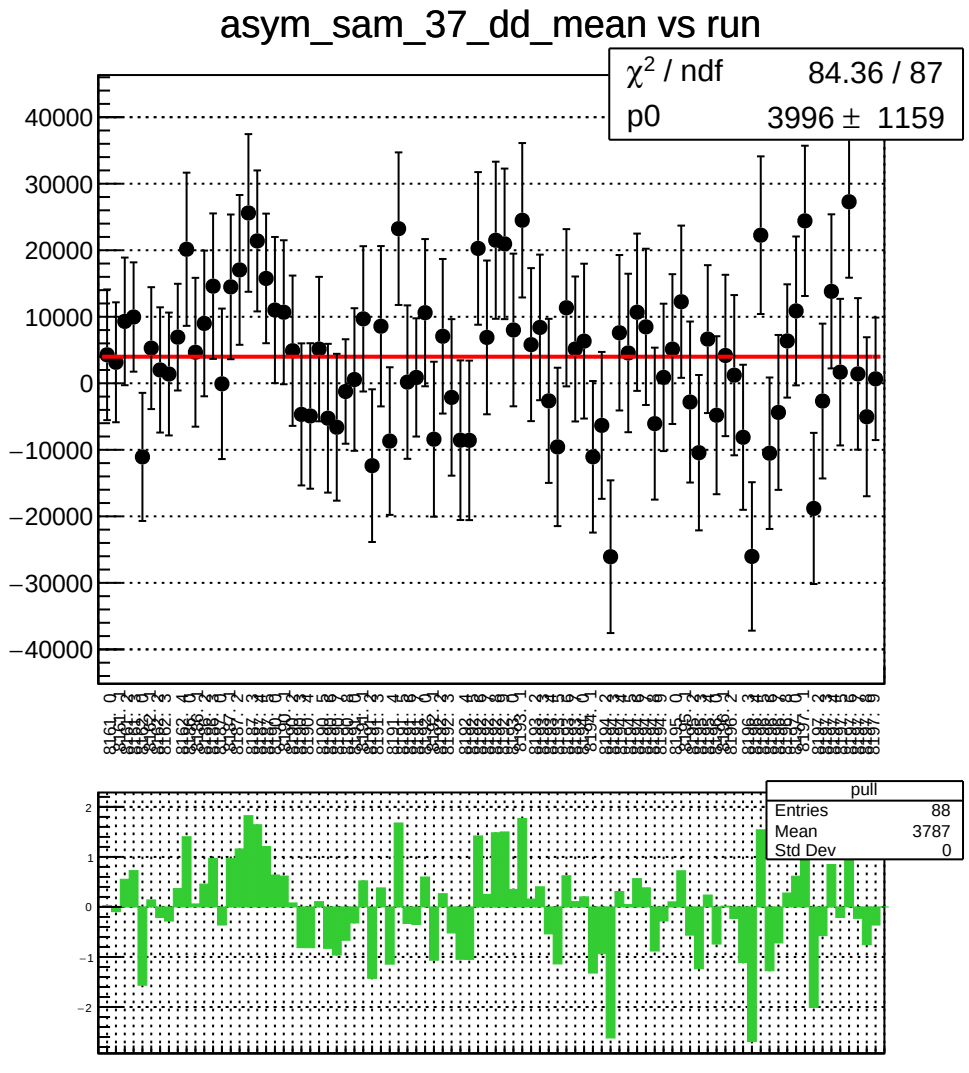

pull1D
Entries 88
Mean 0.008641
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

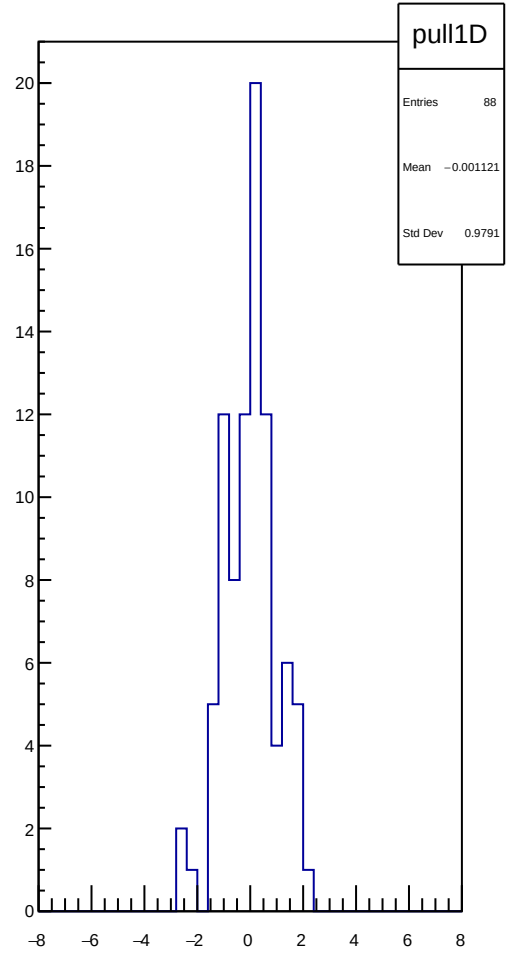

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.968e+04 / 87
p0 112.7 ± 0.08806
200
180
160
140
120
100
80

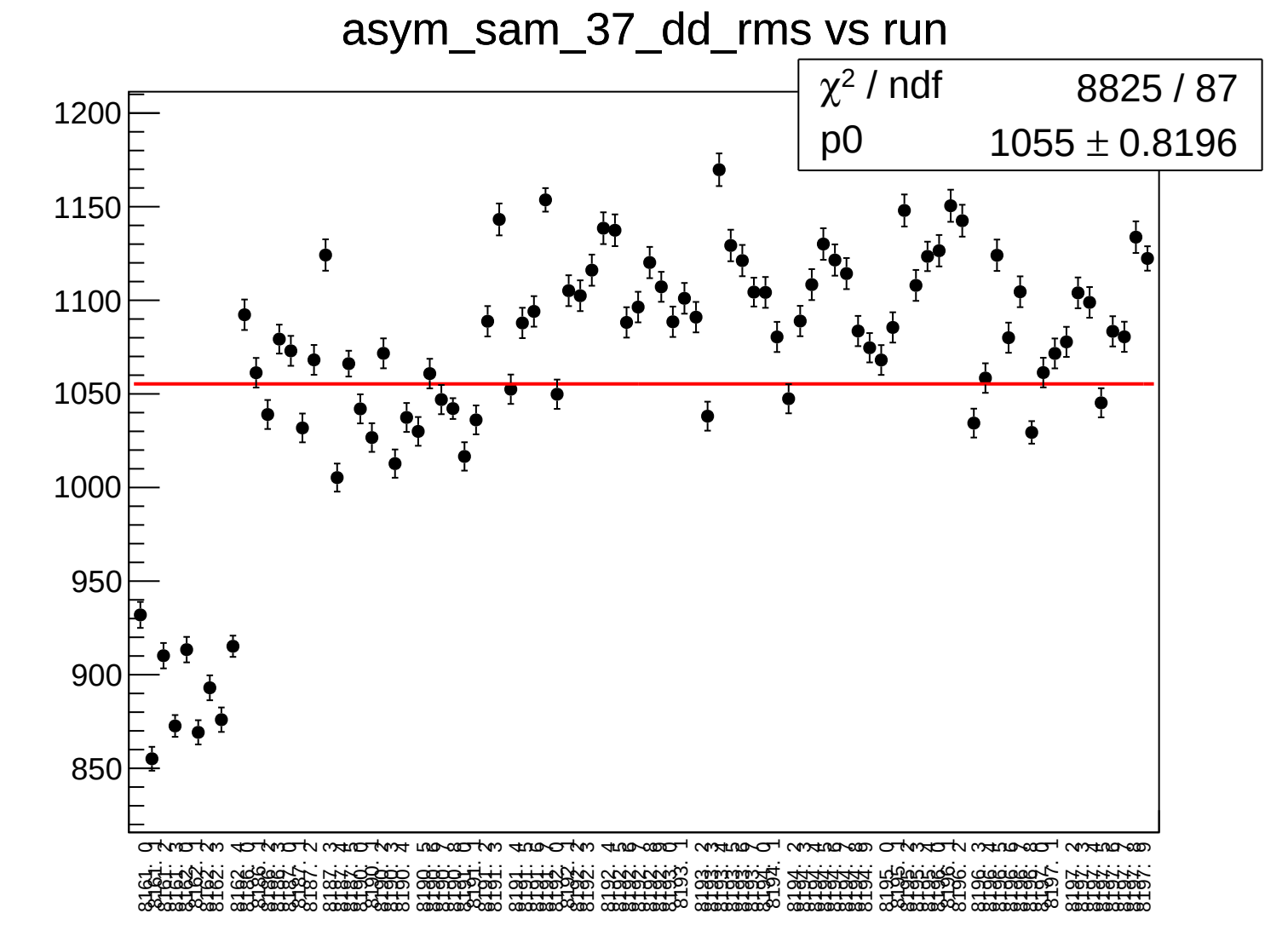

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.79 / 87
p0 −3953 ± 1151
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 2428
Std Dev 0
2
1
0
−1
−2

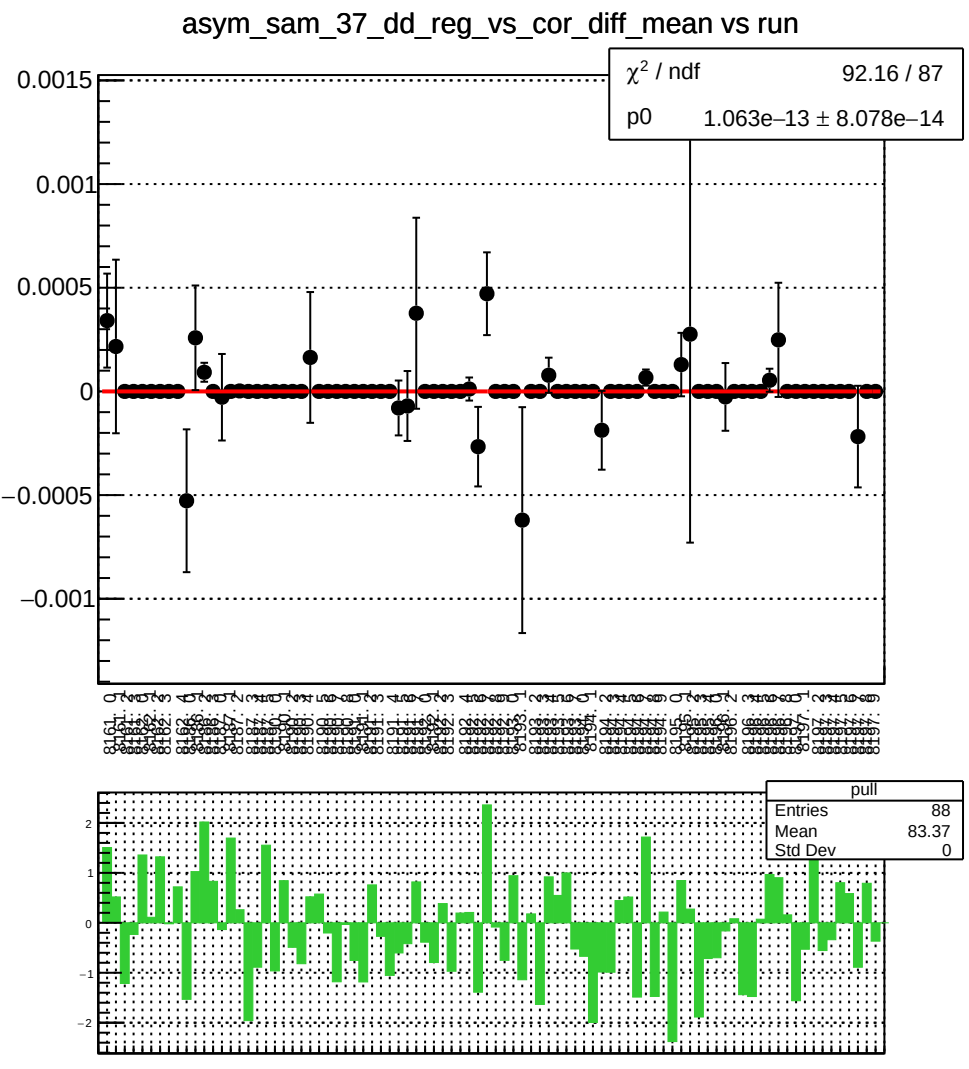

pull1D
Entries 88
Mean 0.00163
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

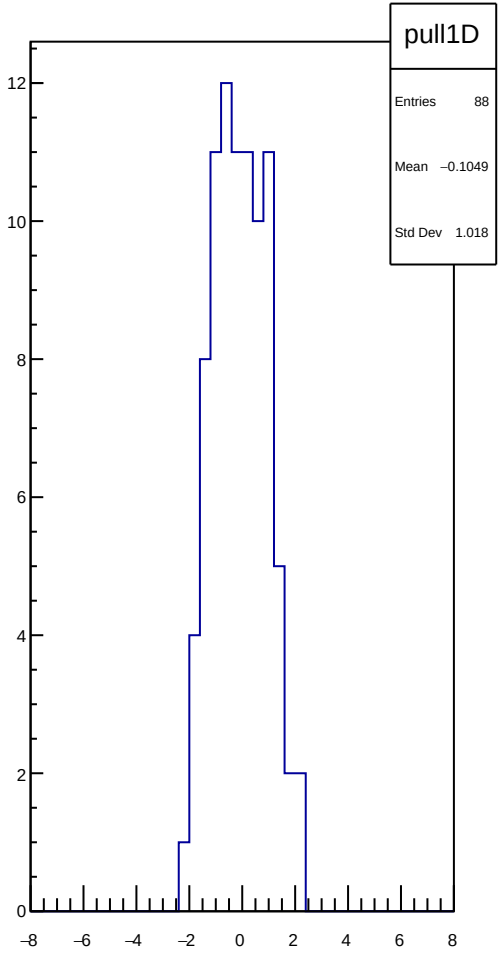

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.101e+04 / 87
p0 1047 ± 0.8136
1150
1100
1050
1000
950
900
850
800

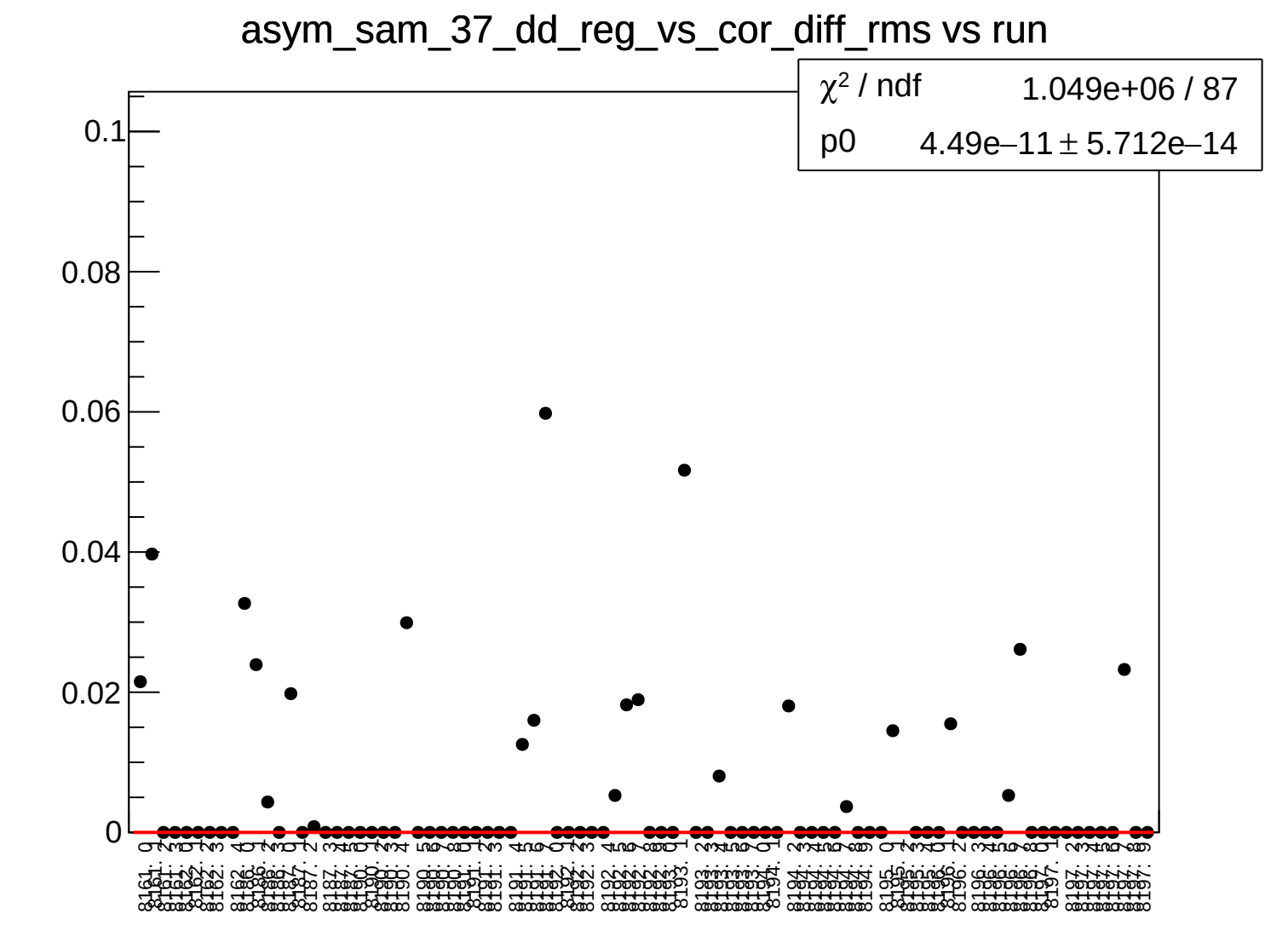

asym_sam_37_dd_mean vs run
χ² / ndf 84.36 / 87
p0 3996 ± 1159
pull
Entries 88
Mean 3787
Std Dev 0

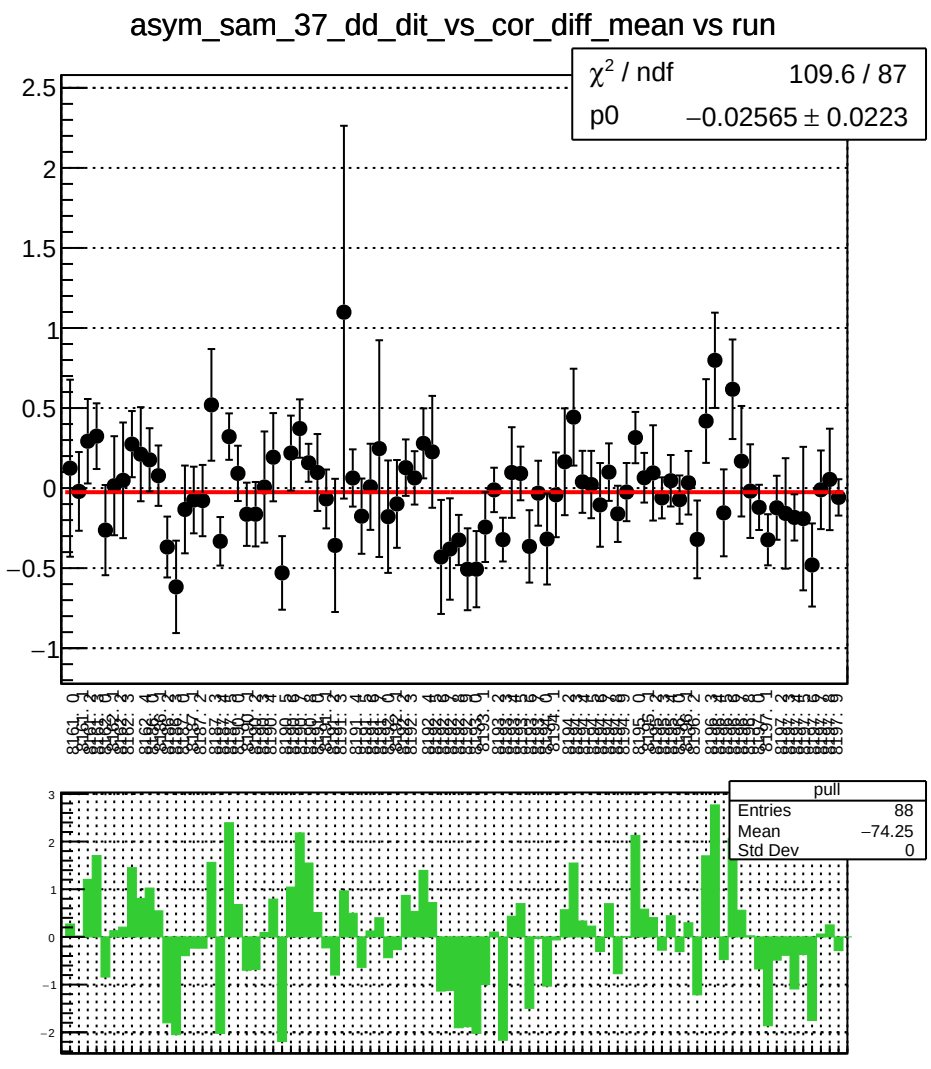

pull1D
Entries 88
Mean −0.001121
Std Dev 0.9791

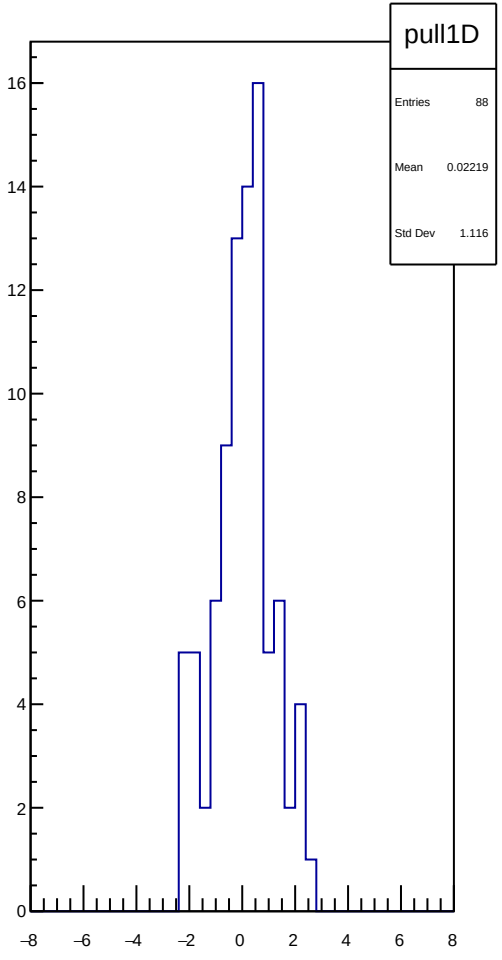

asym_sam_37_dd_rms vs run
χ² / ndf 8825 / 87
p0 1055 ± 0.8196
1200
1150
1100
1050
1000
950
900
850

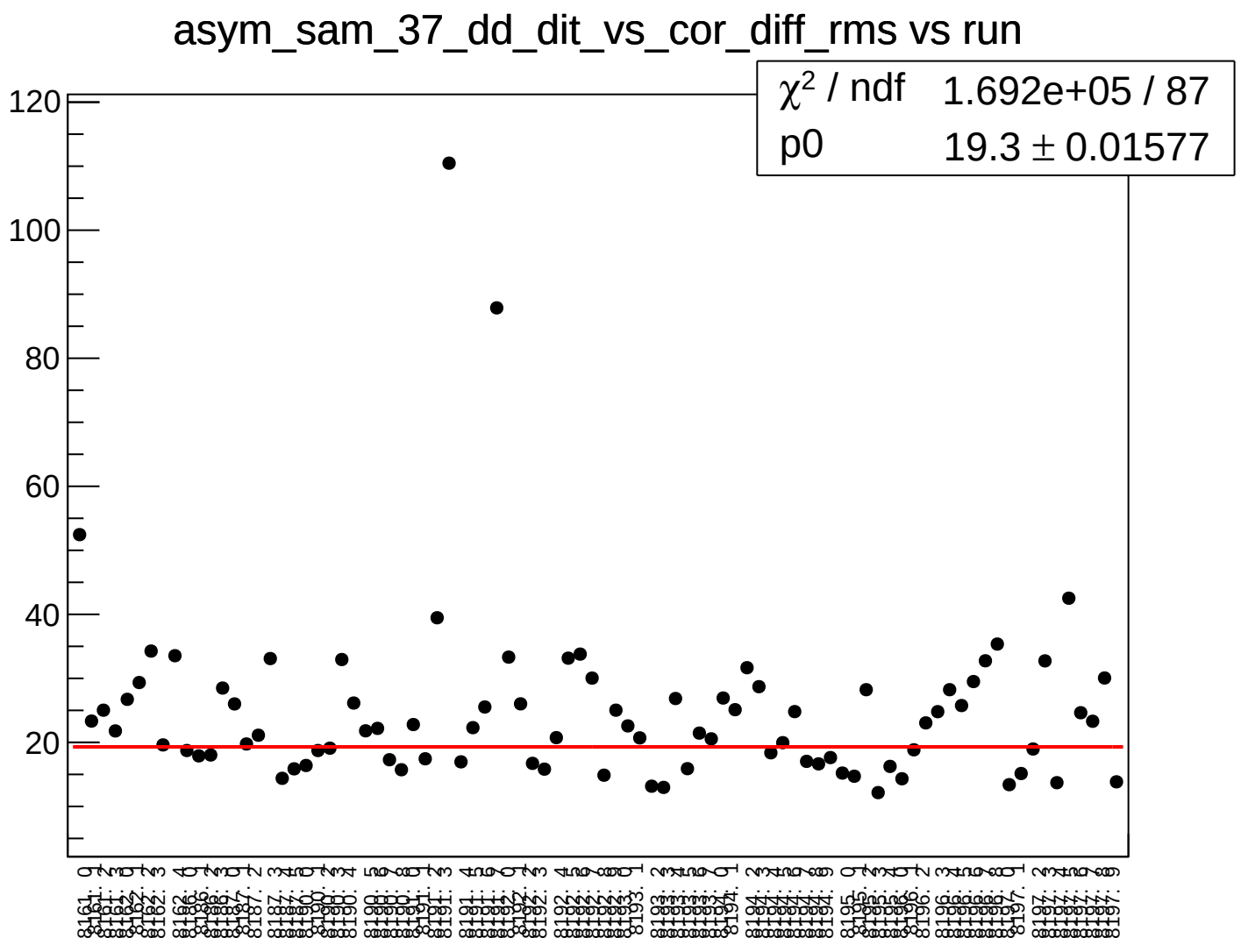

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.16 / 87
p0 1.063e−13 ± 8.078e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 83.37
Std Dev 0
2
1
0
−1
−2

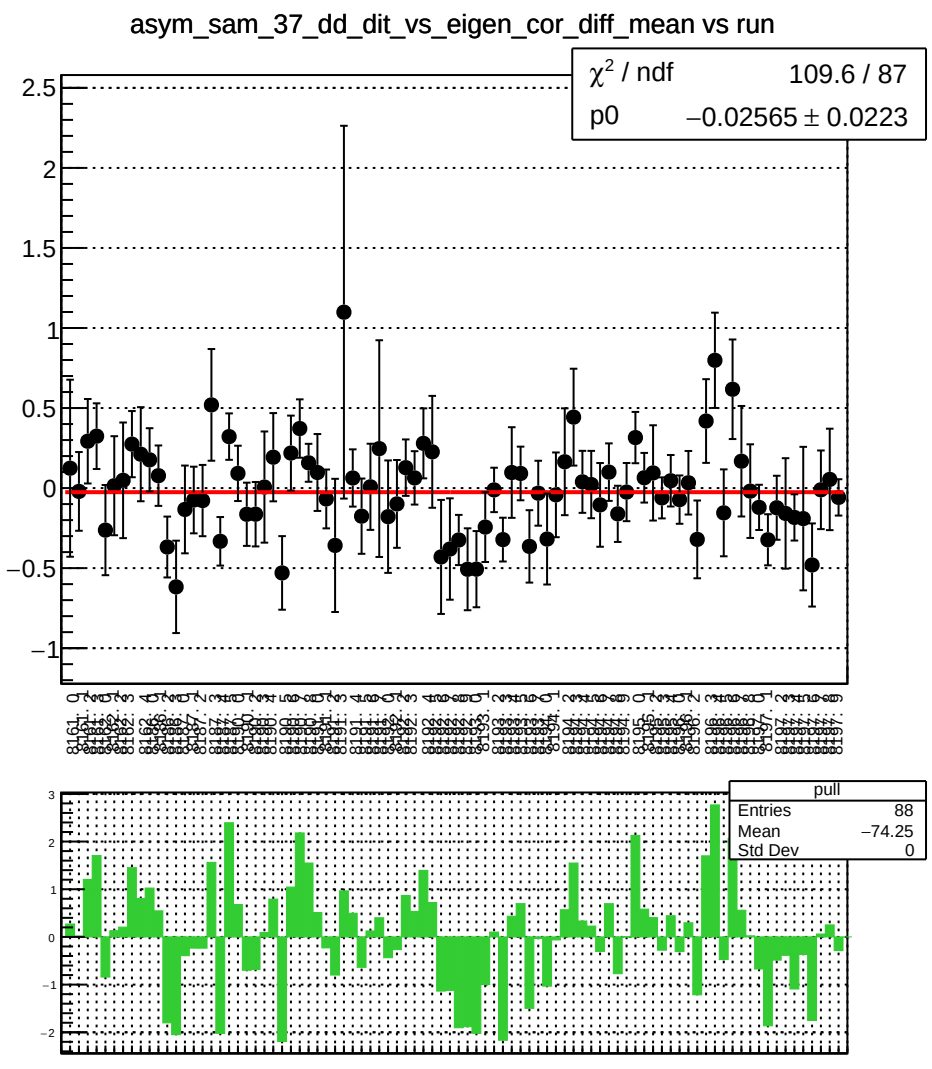

pull1D
Entries 88
Mean −0.1049
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

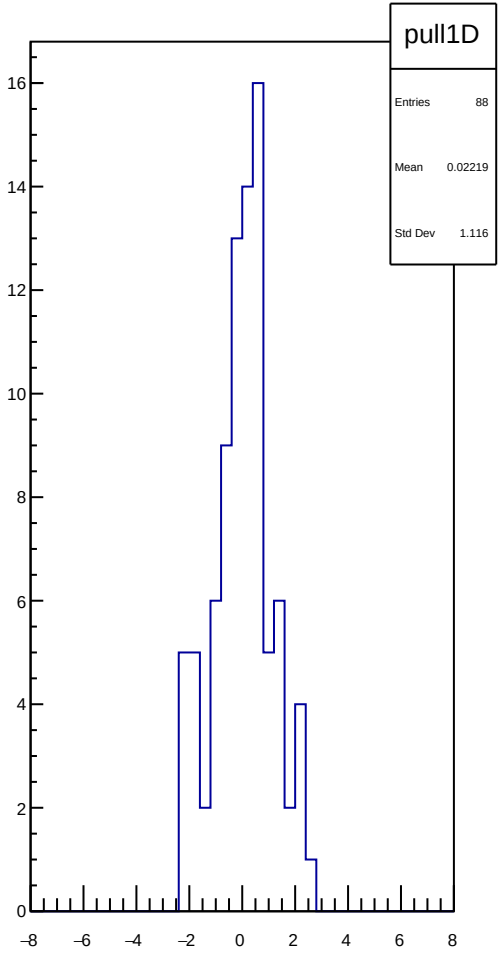

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 87
p0 4.49e−11 ± 5.712e−14
0.1
0.08
0.06
0.04
0.02
0

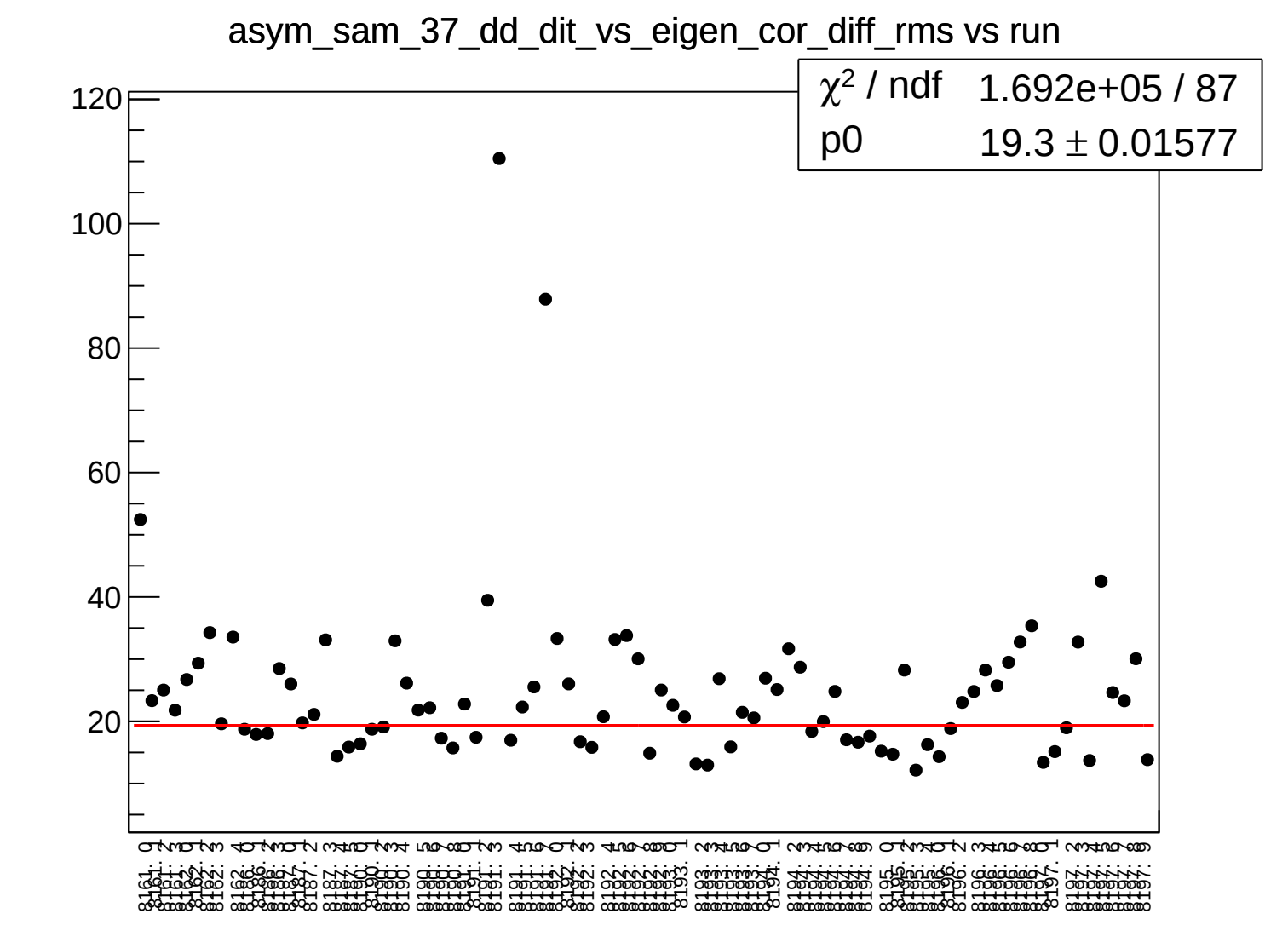

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 87
p0 −0.02565 ± 0.0223
pull
Entries 88
Mean −74.25
Std Dev 0

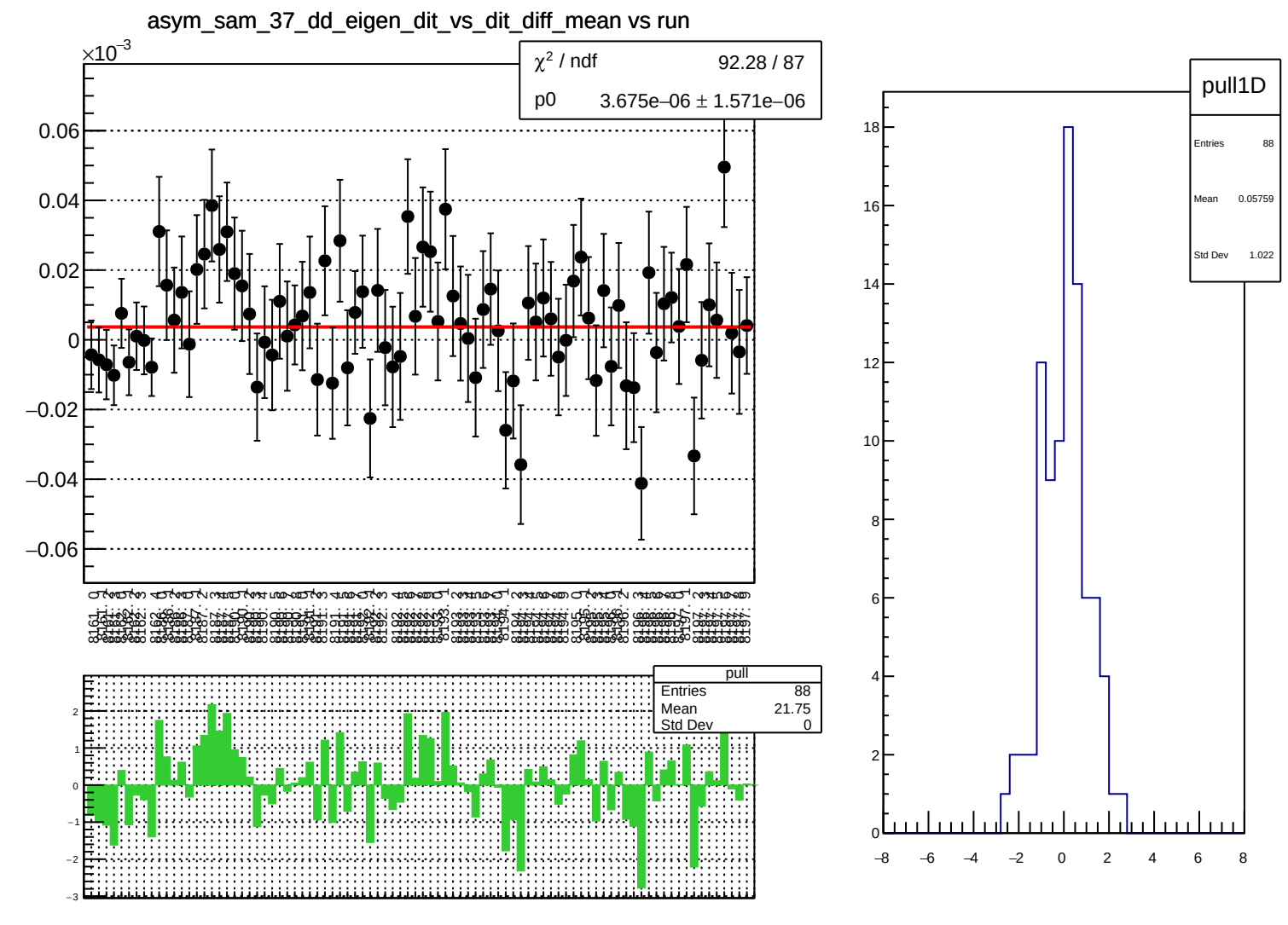

pull1D
Entries 88
Mean 0.02219
Std Dev 1.116

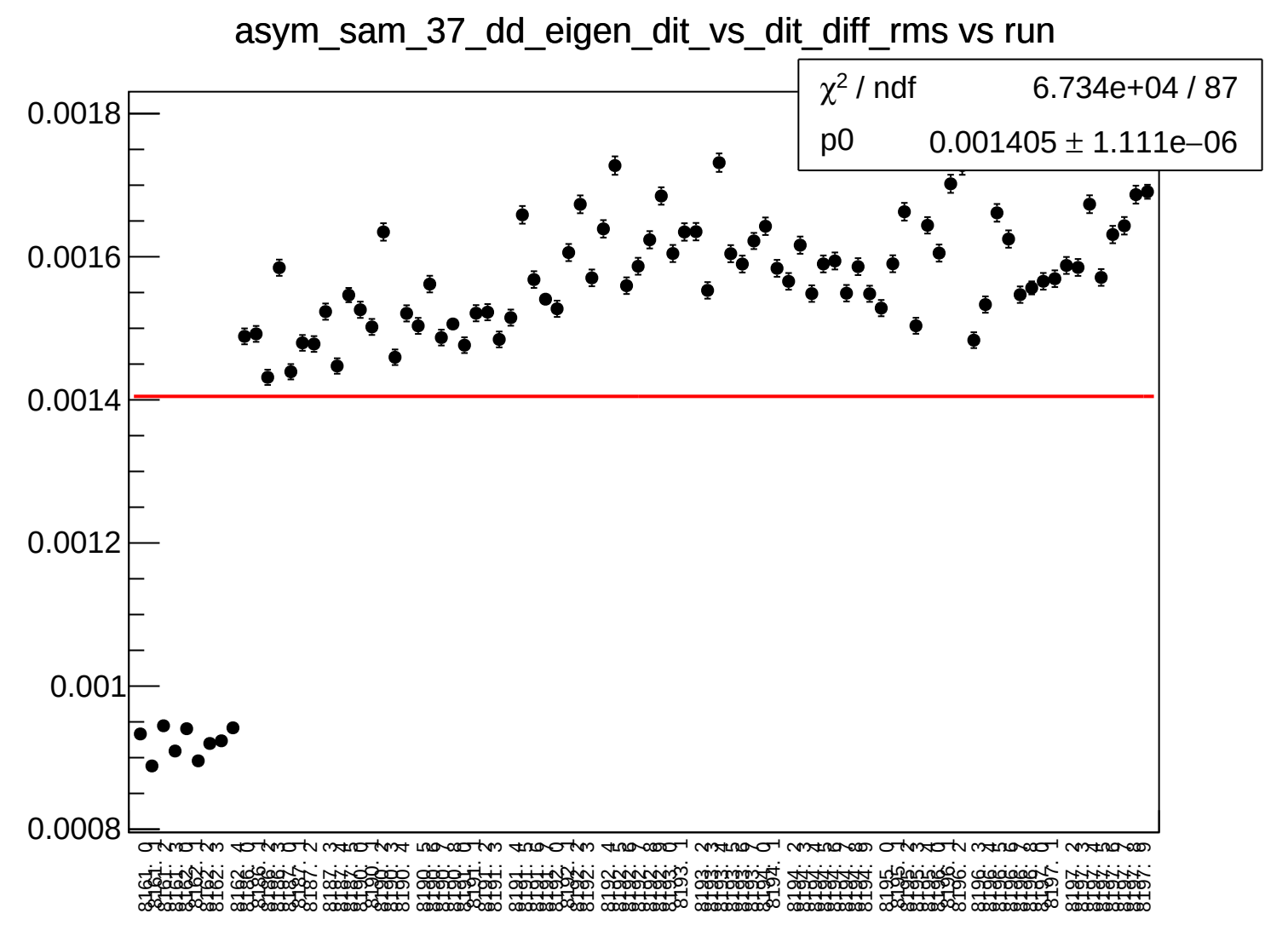

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 87
p0 19.3 ± 0.01577
120
100
80
60
40
20

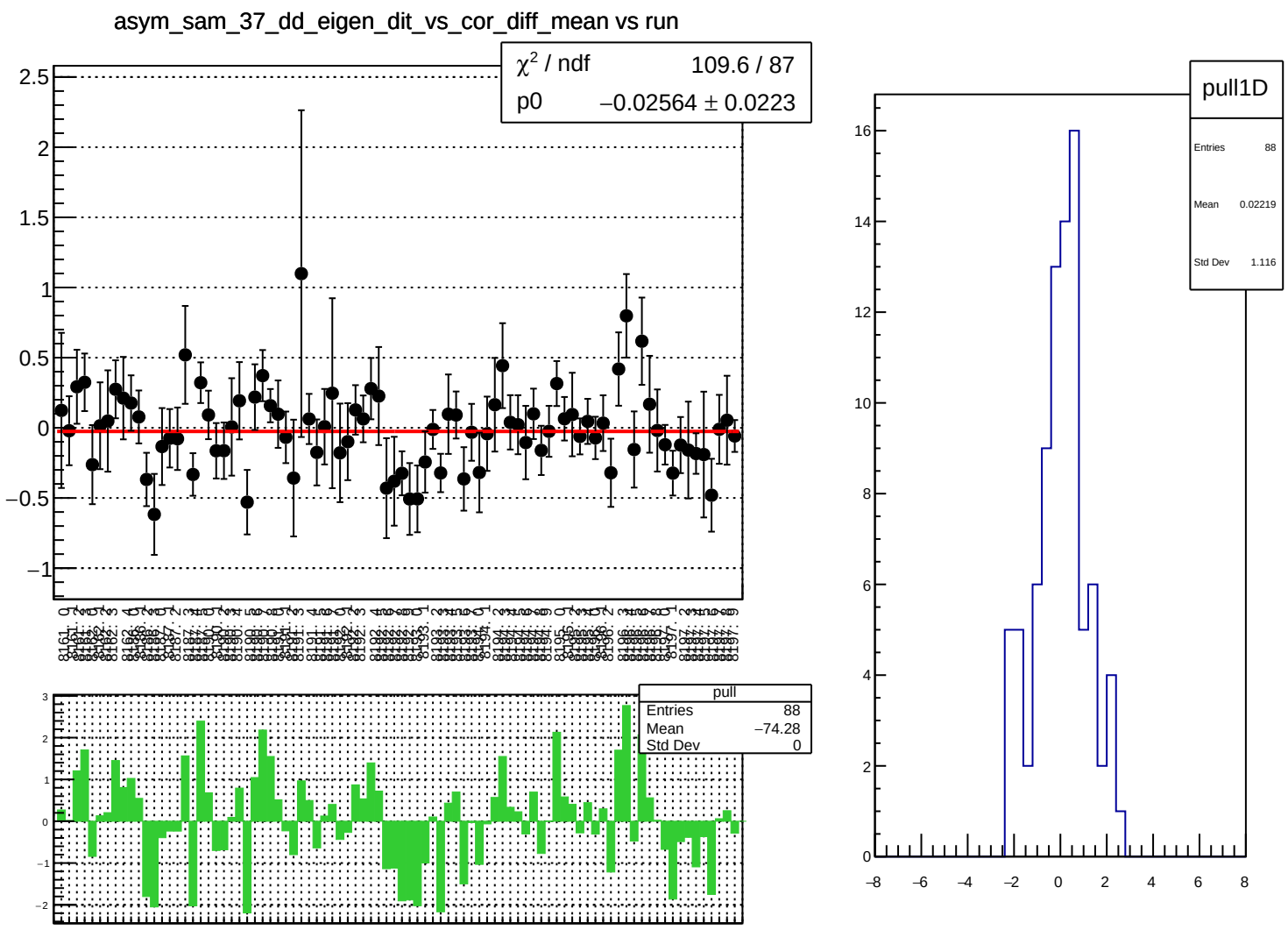

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 87
p0 −0.02565 ± 0.0223
pull
Entries 88
Mean −74.25
Std Dev 0

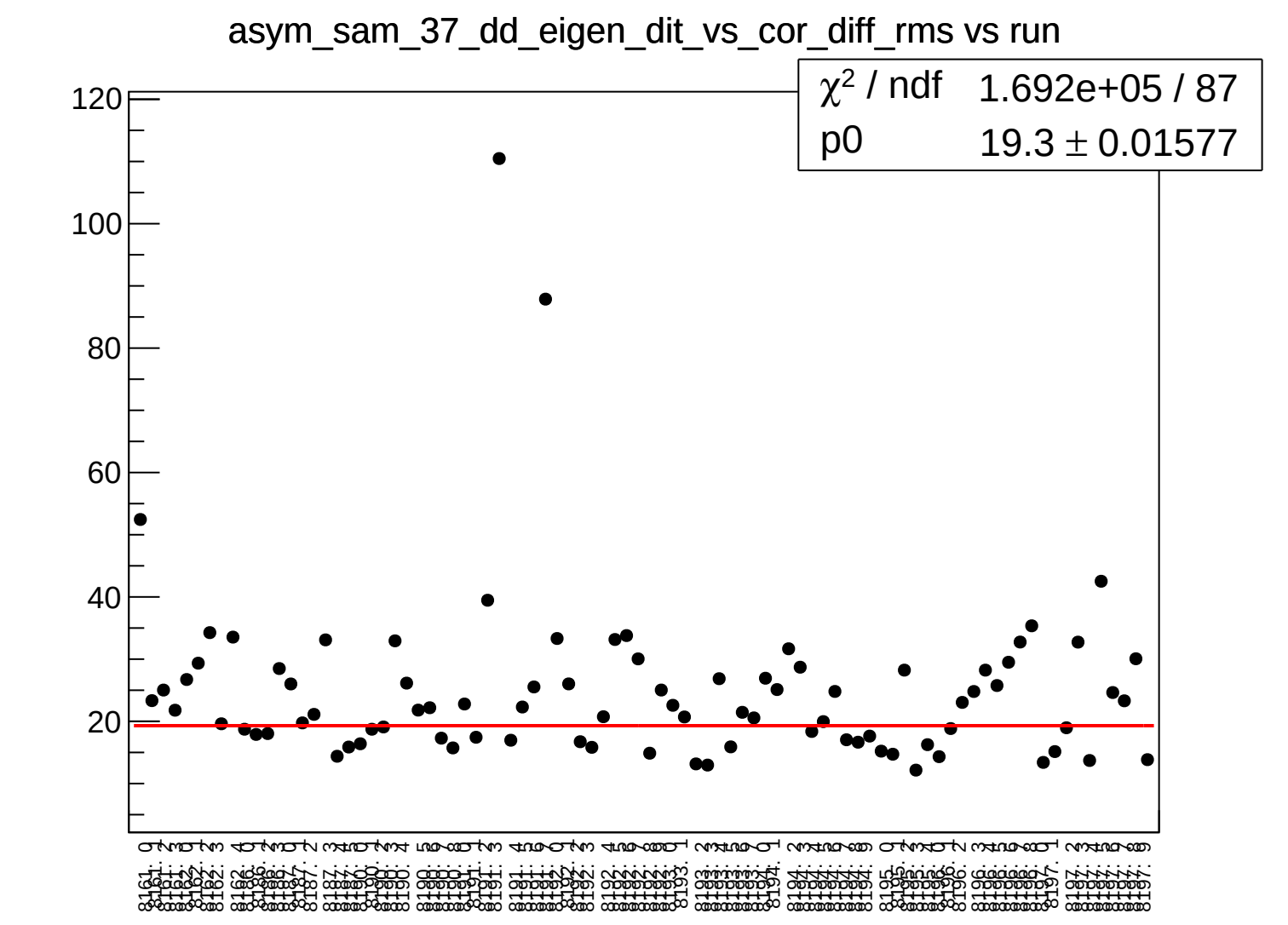

pull1D
Entries 88
Mean 0.02219
Std Dev 1.116

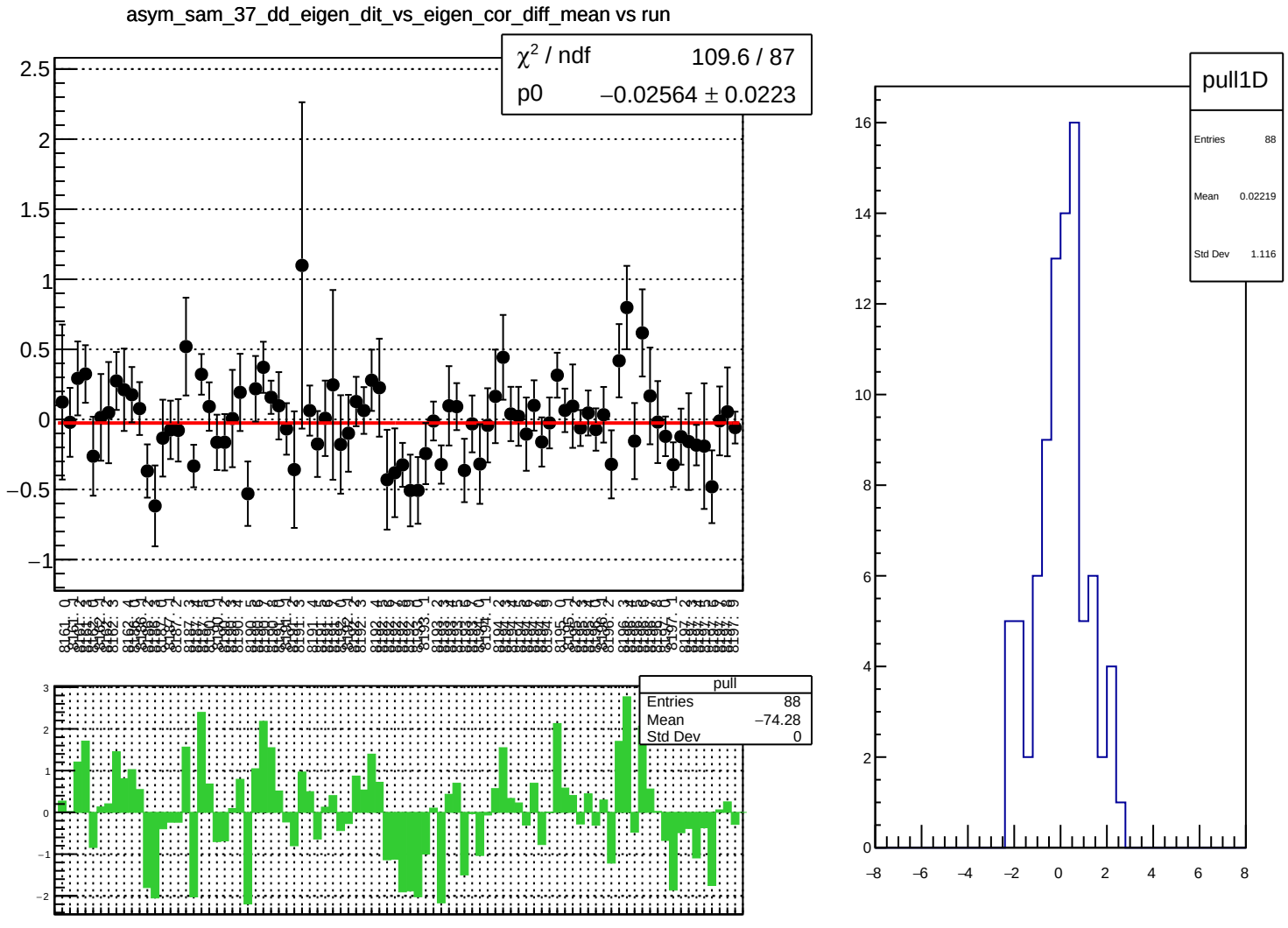

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 87
p0 19.3 ± 0.01577
120
100
80
60
40
20

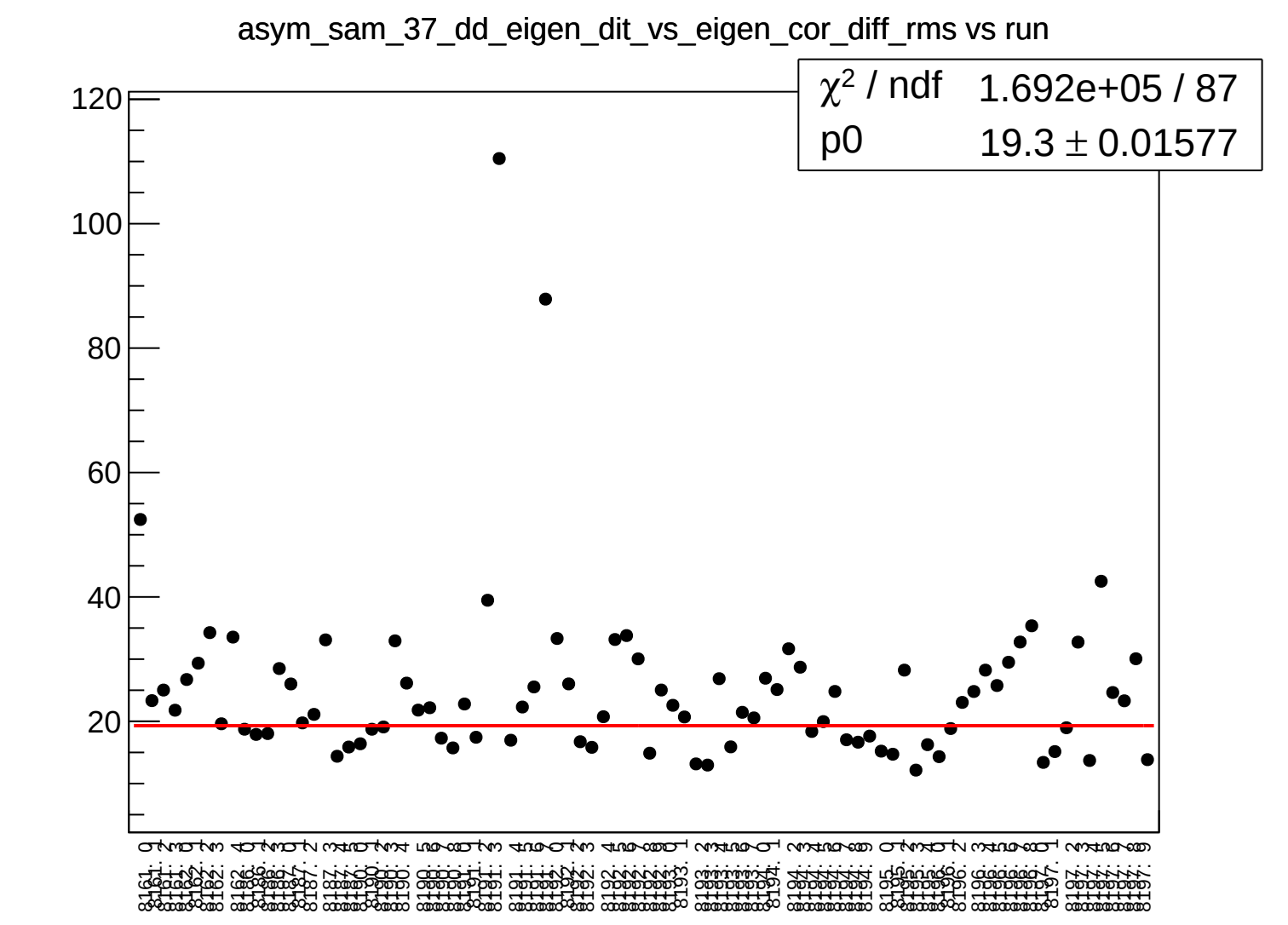

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.28 / 87
p0 3.675e−06 ± 1.571e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 21.75
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.05759
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

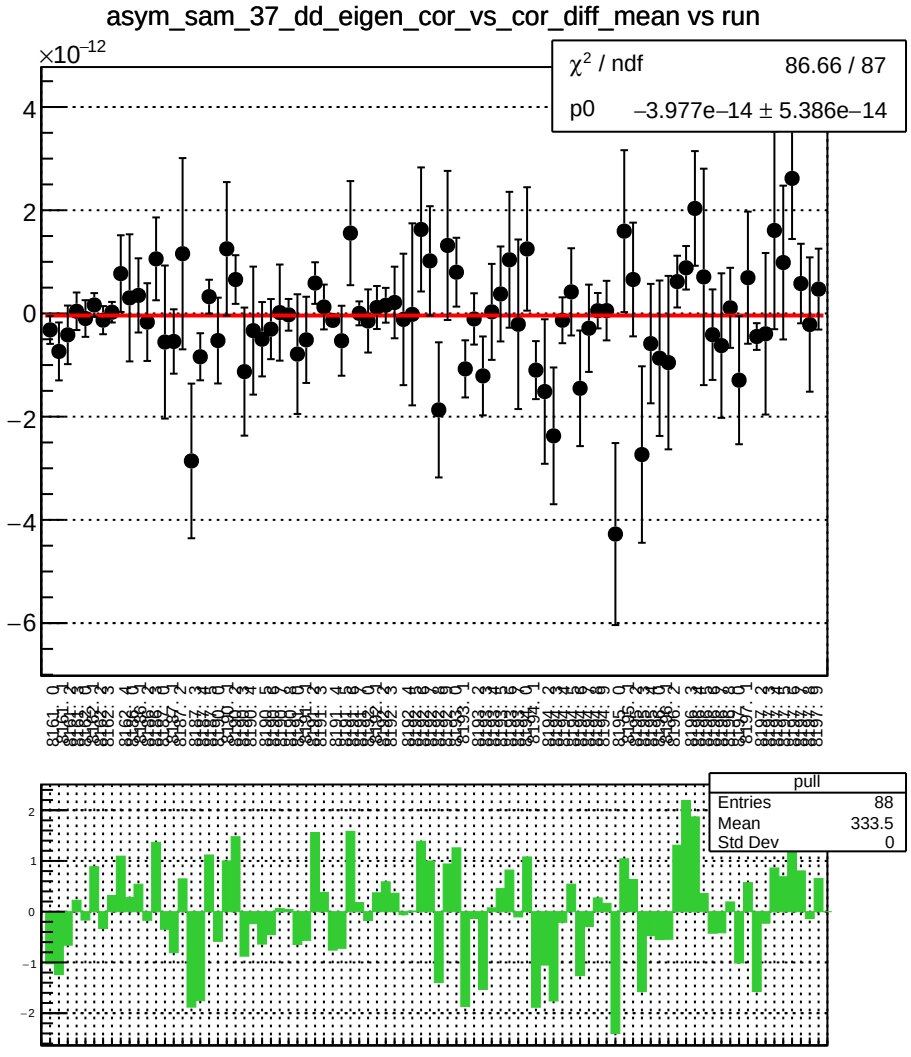

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.734e+04 / 87
p0 0.001405 ± 1.111e−06
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

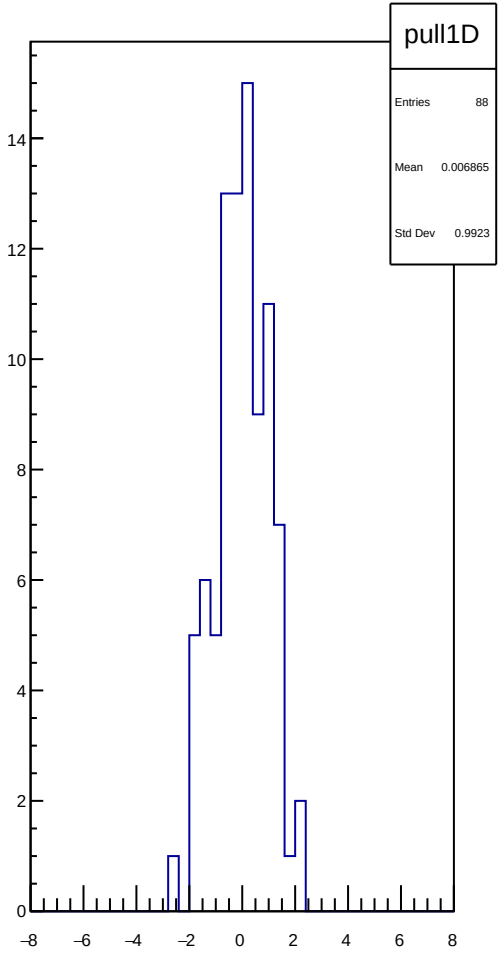

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 87
p0 −0.02564 ± 0.0223
pull
Entries 88
Mean −74.28
Std Dev 0
pull1D
Entries 88
Mean 0.02219
Std Dev 1.116

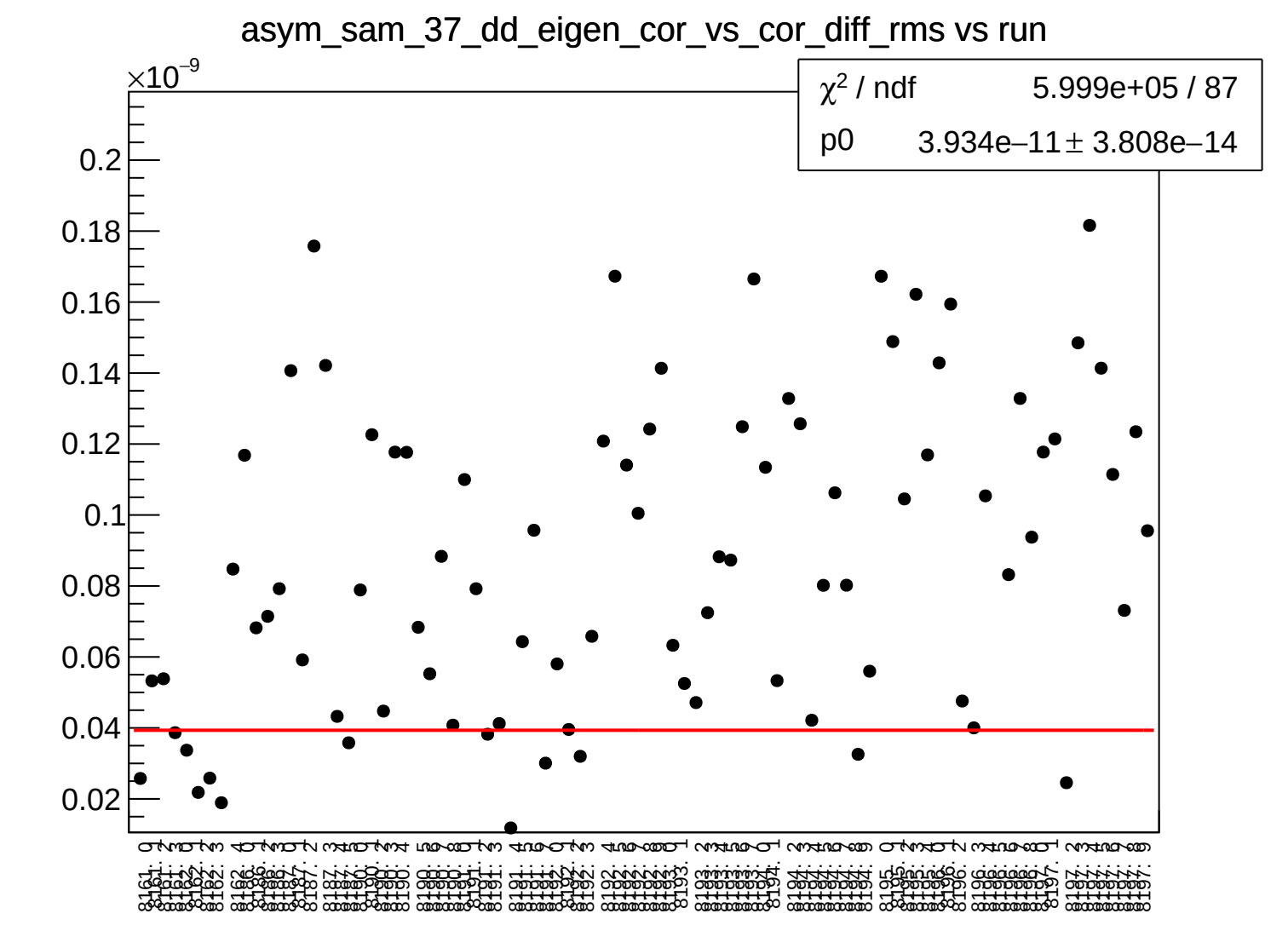

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 87
p0 19.3 ± 0.01577
120
100
80
60
40
20

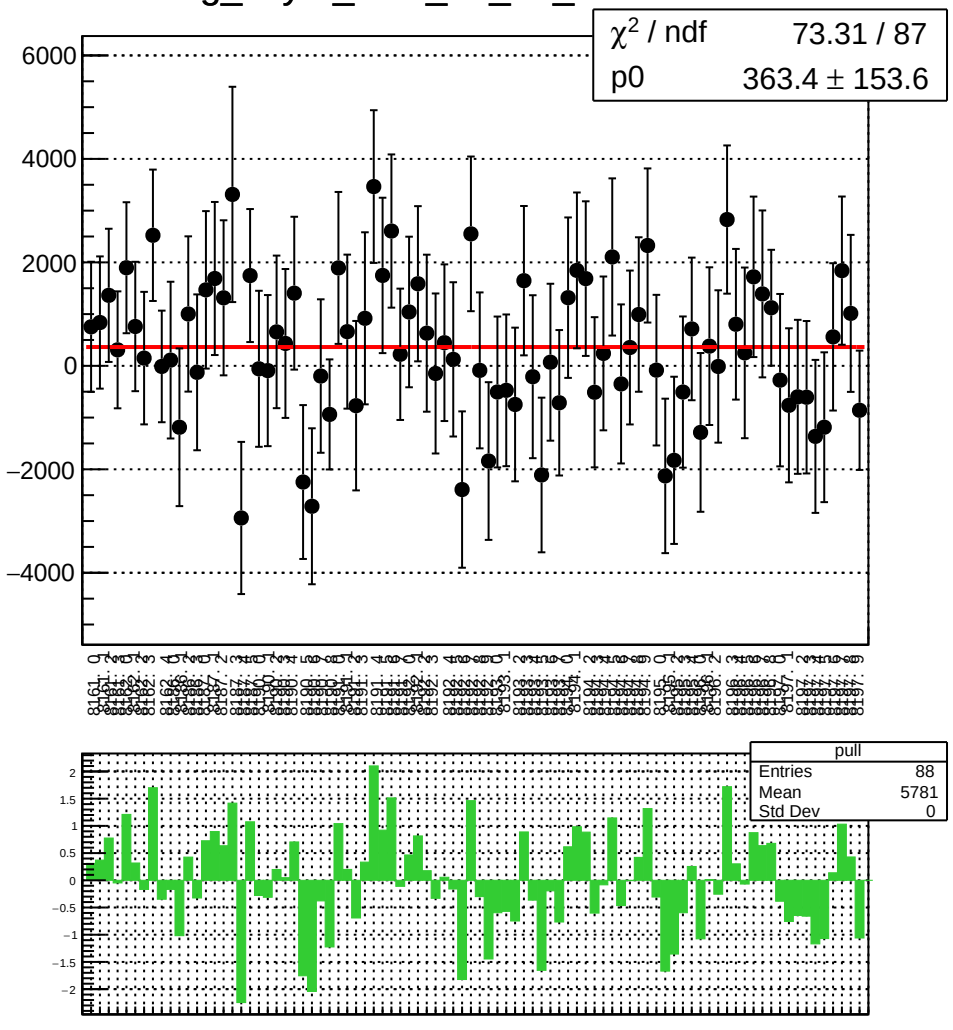

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 87
p0 −0.02564 ± 0.0223
pull
Entries 88
Mean −74.28
Std Dev 0
pull1D
Entries 88
Mean 0.02219
Std Dev 1.116

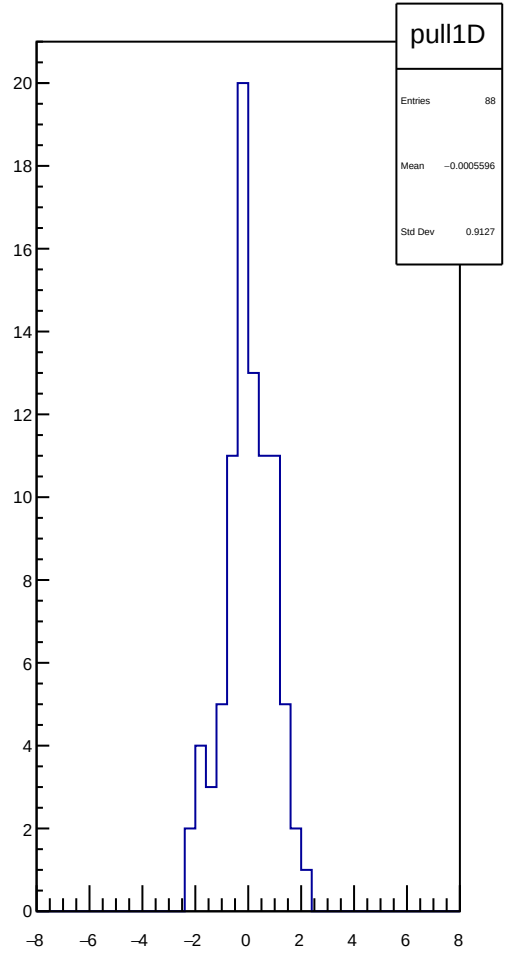

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.692e+05 / 87
p0 19.3 ± 0.01577
120
100
80
60
40
20

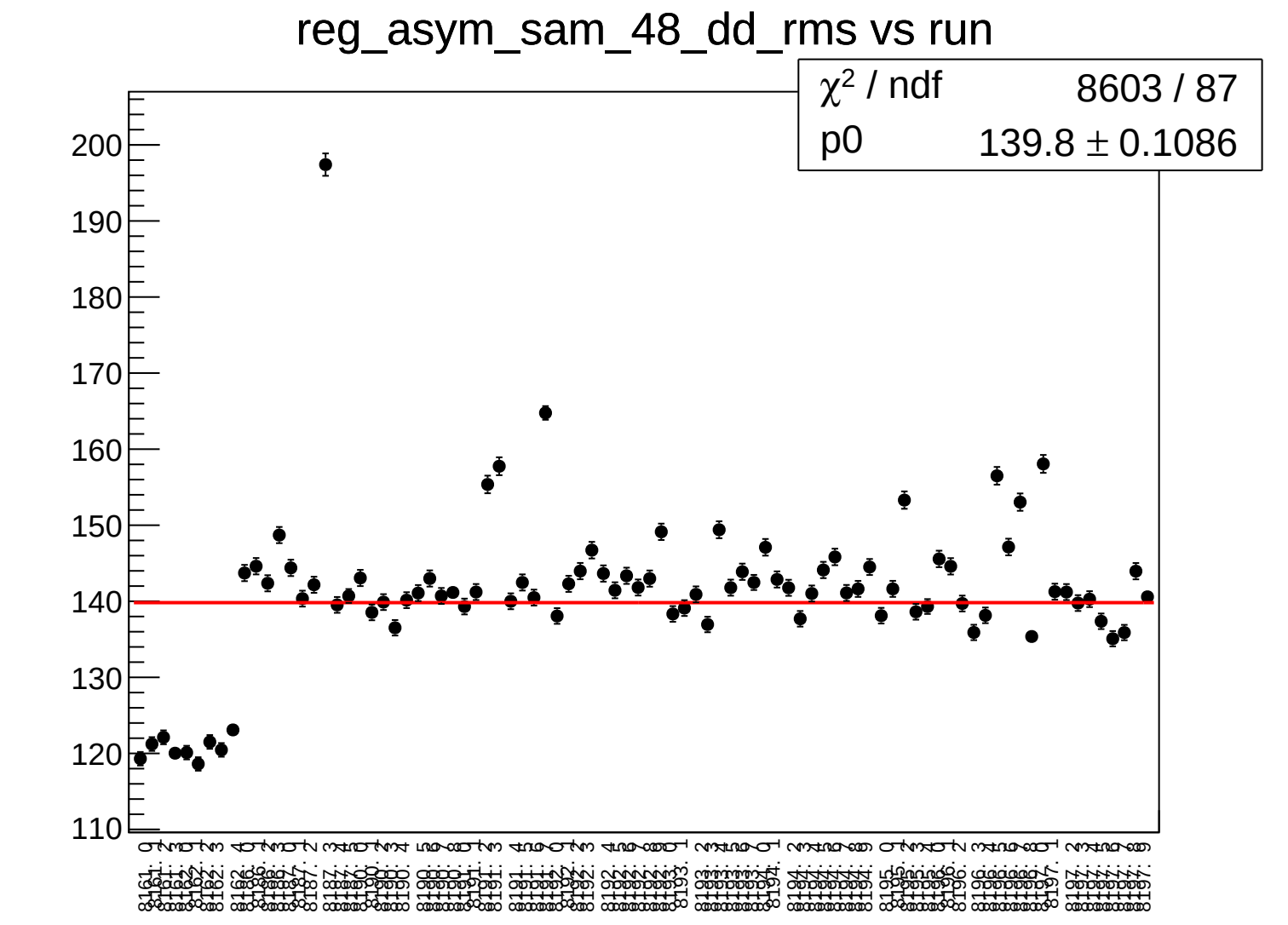

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.66 / 87
p0 −3.977e−14 ± 5.386e−14
pull
Entries 88
Mean 333.5
Std Dev 0

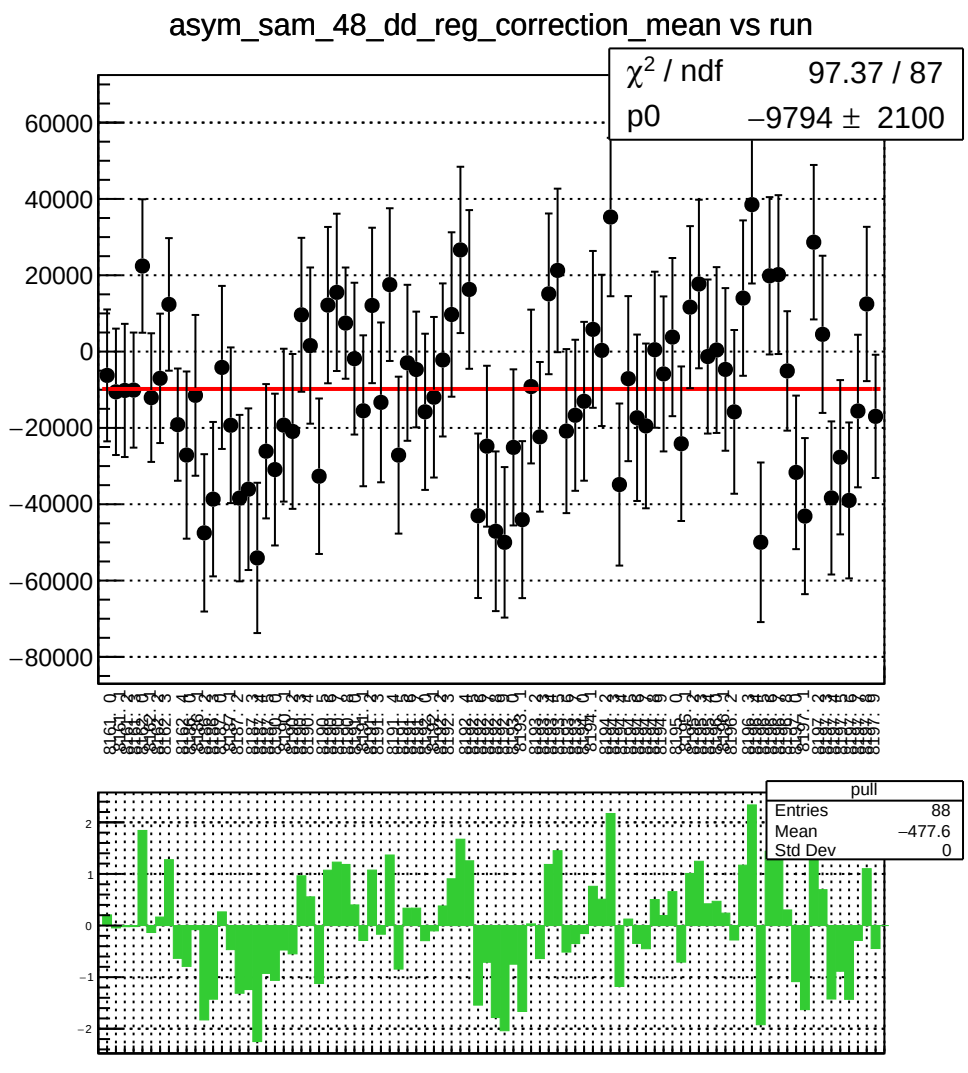

pull1D
Entries 88
Mean 0.006865
Std Dev 0.9923

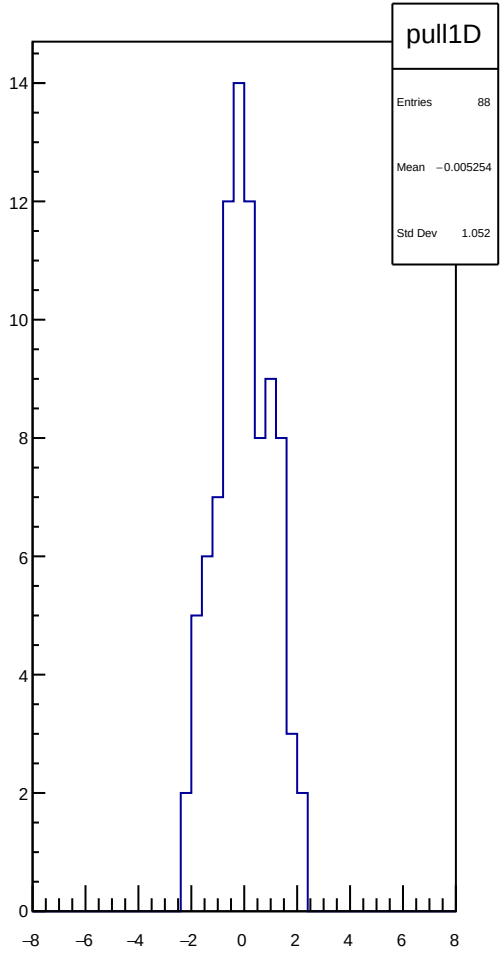

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.999e+05 / 87
p0 3.934e−11 ± 3.808e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

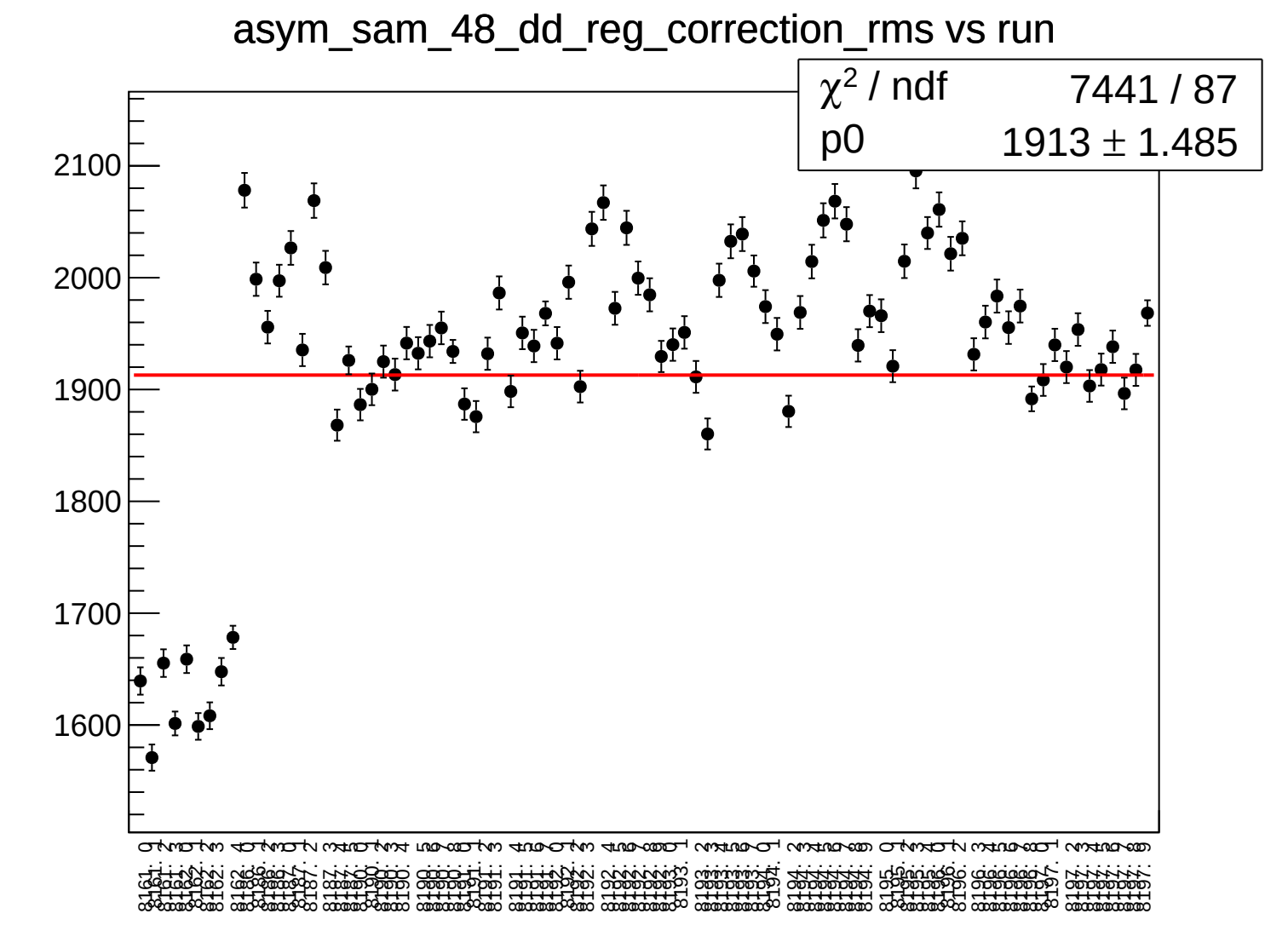

reg_asym_sam_48_dd_mean vs run
χ² / ndf 73.31 / 87
p0 363.4 ± 153.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 5781
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

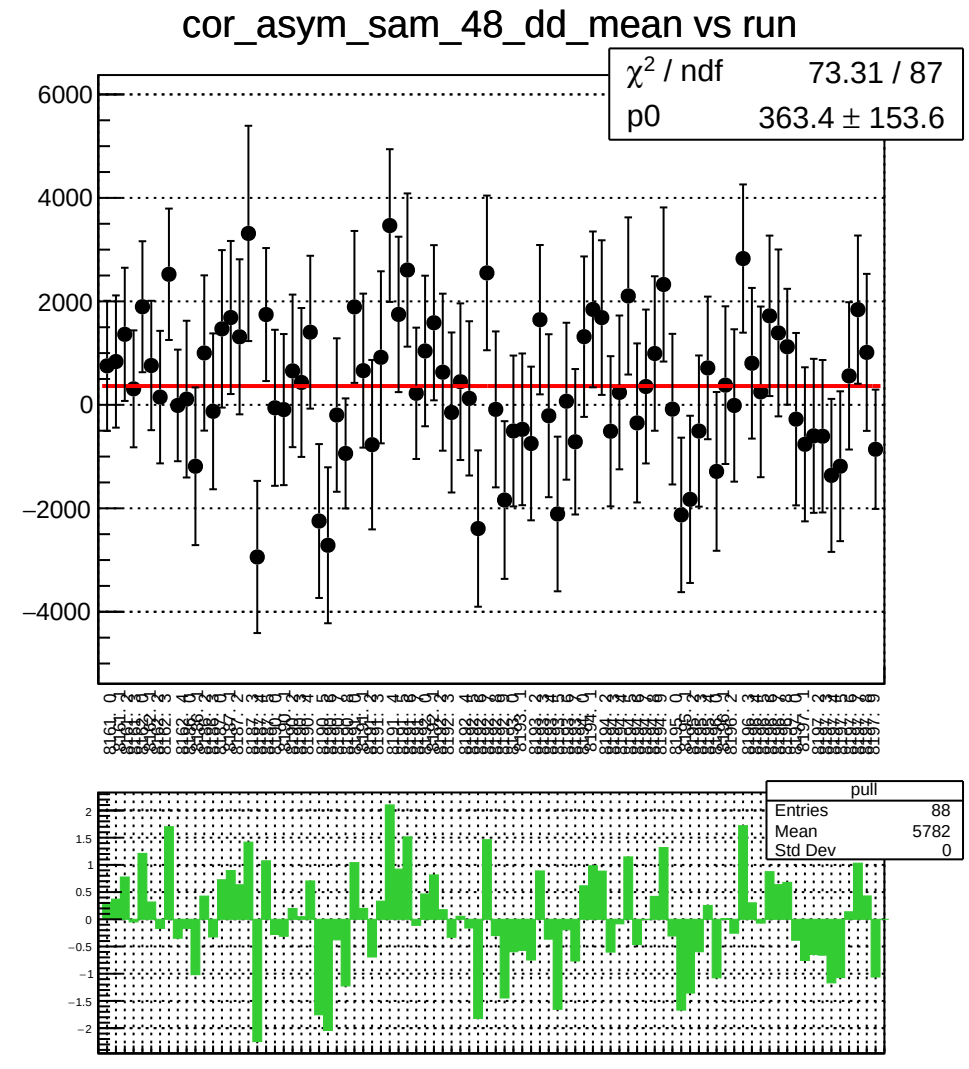

pull1D
Entries 88
Mean −0.0005596
Std Dev 0.9127
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

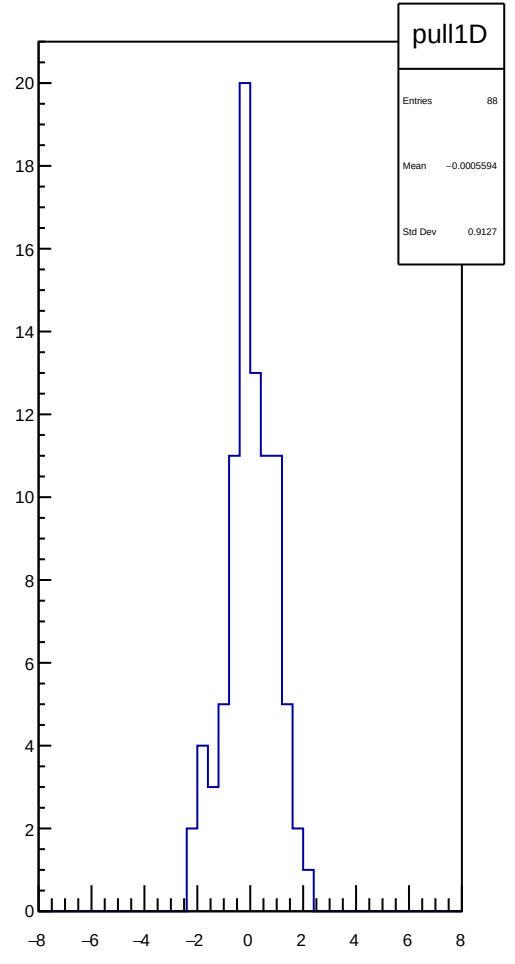

reg_asym_sam_48_dd_rms vs run
χ² / ndf 8603 / 87
p0 139.8 ± 0.1086
200
190
180
170
160
150
140
130
120
110

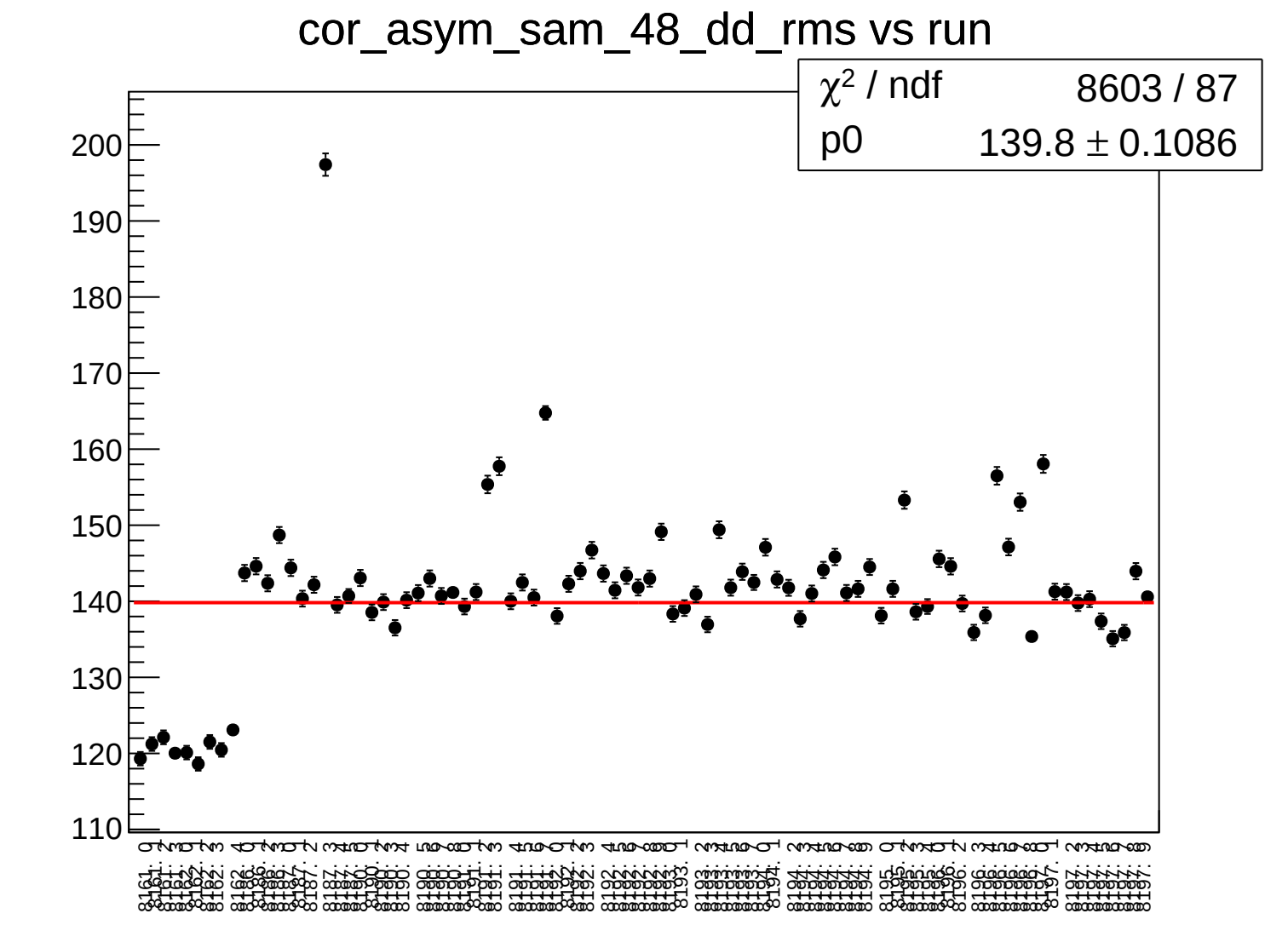

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 97.37 / 87
p0 −9794 ± 2100
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −477.6
Std Dev 0
2
1
0
−1
−2

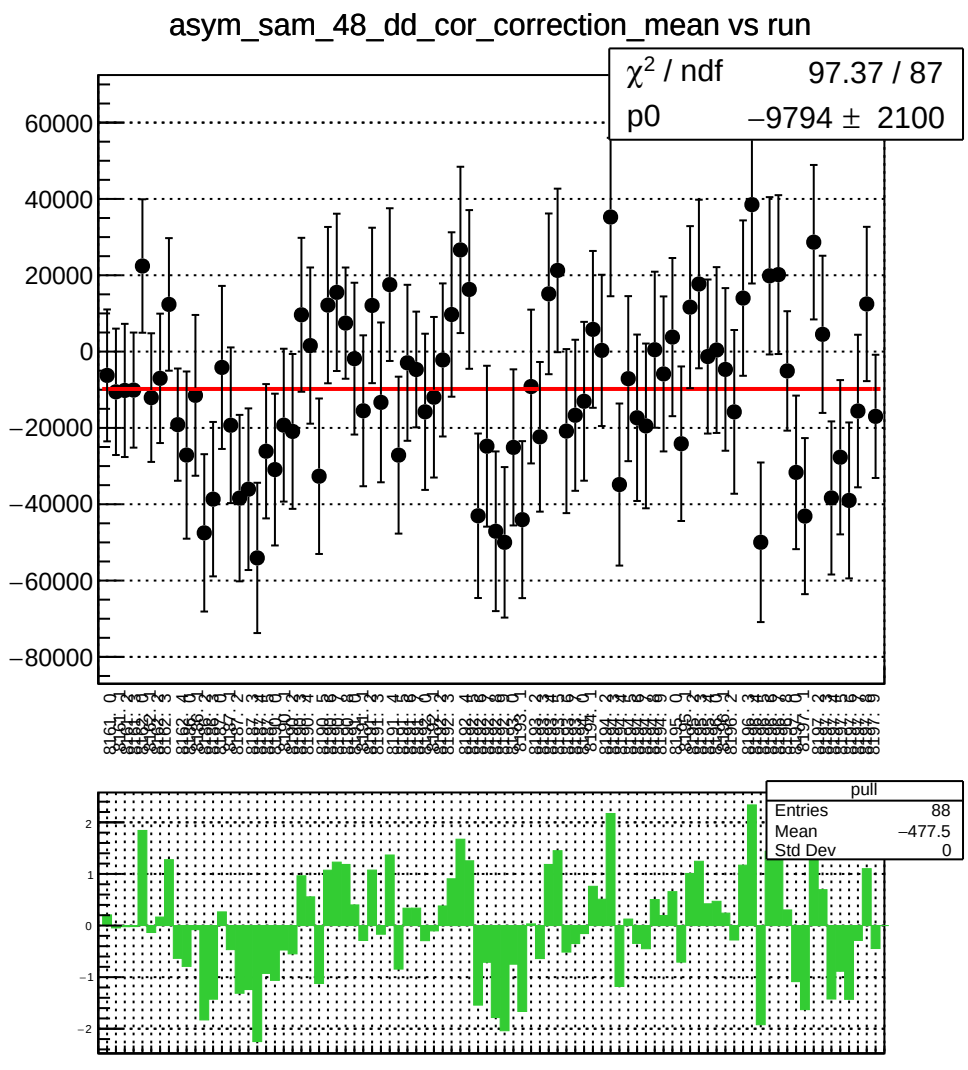

pull1D
Entries 88
Mean −0.005254
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

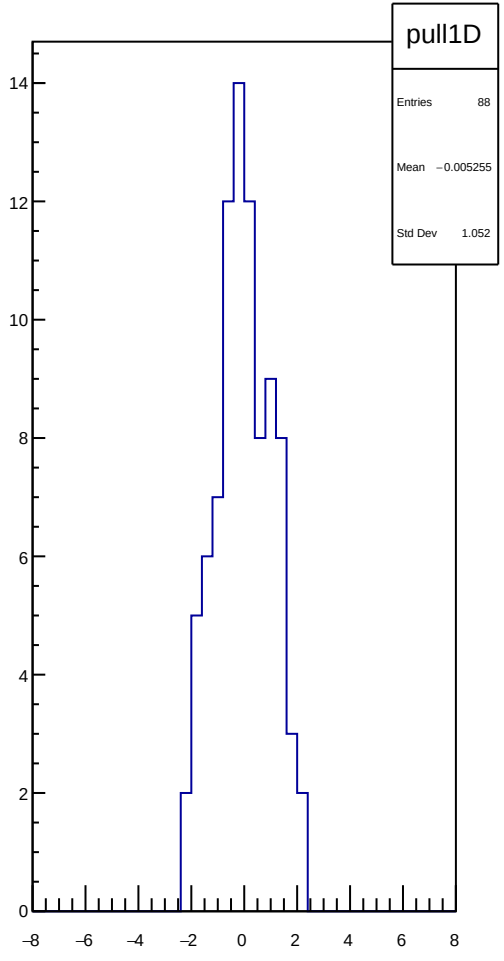

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 7441 / 87
p0 1913 ± 1.485
2100
2000
1900
1800
1700
1600

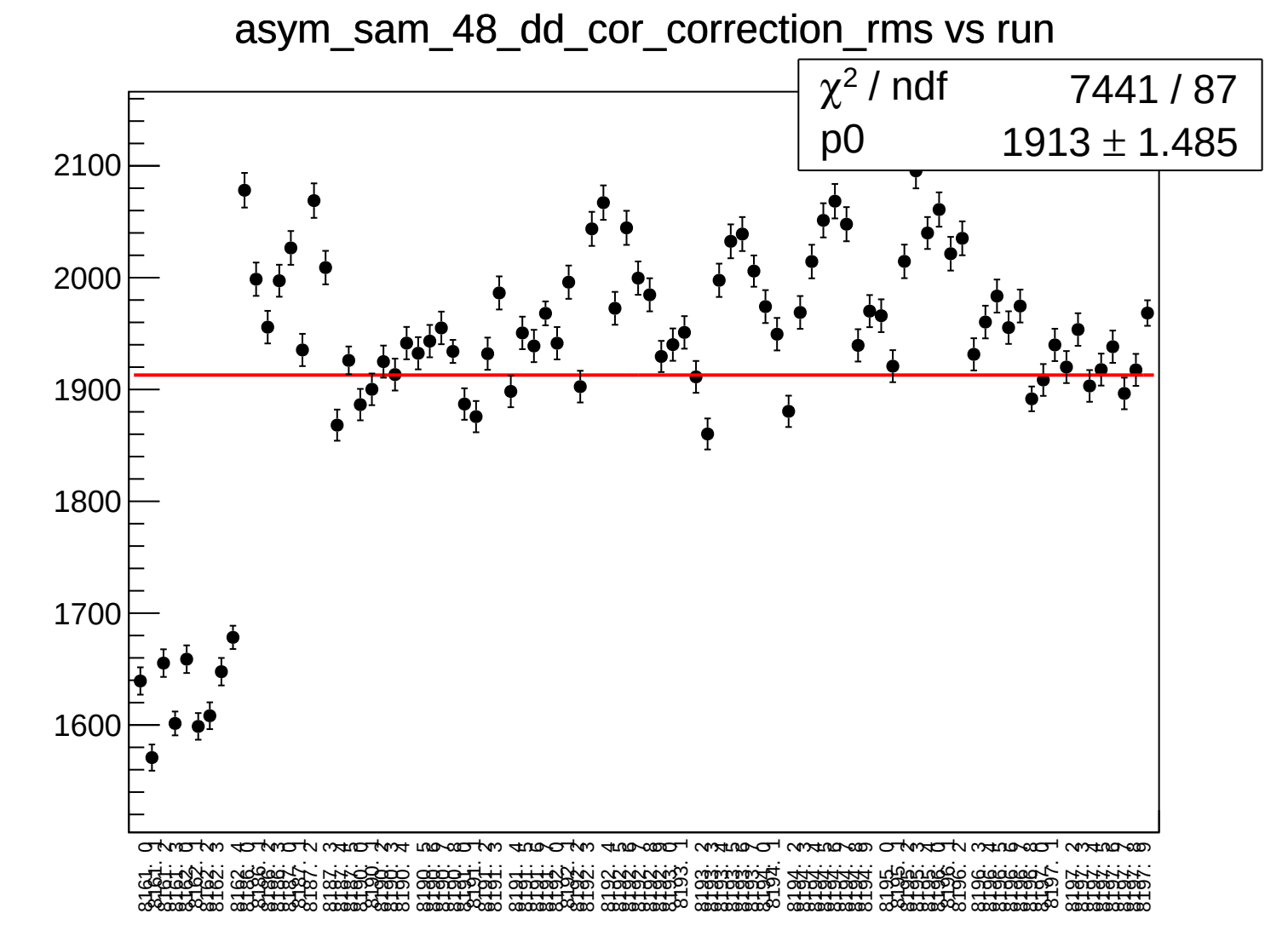

cor_asym_sam_48_dd_mean vs run
χ² / ndf 73.31 / 87
p0 363.4 ± 153.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 5782
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

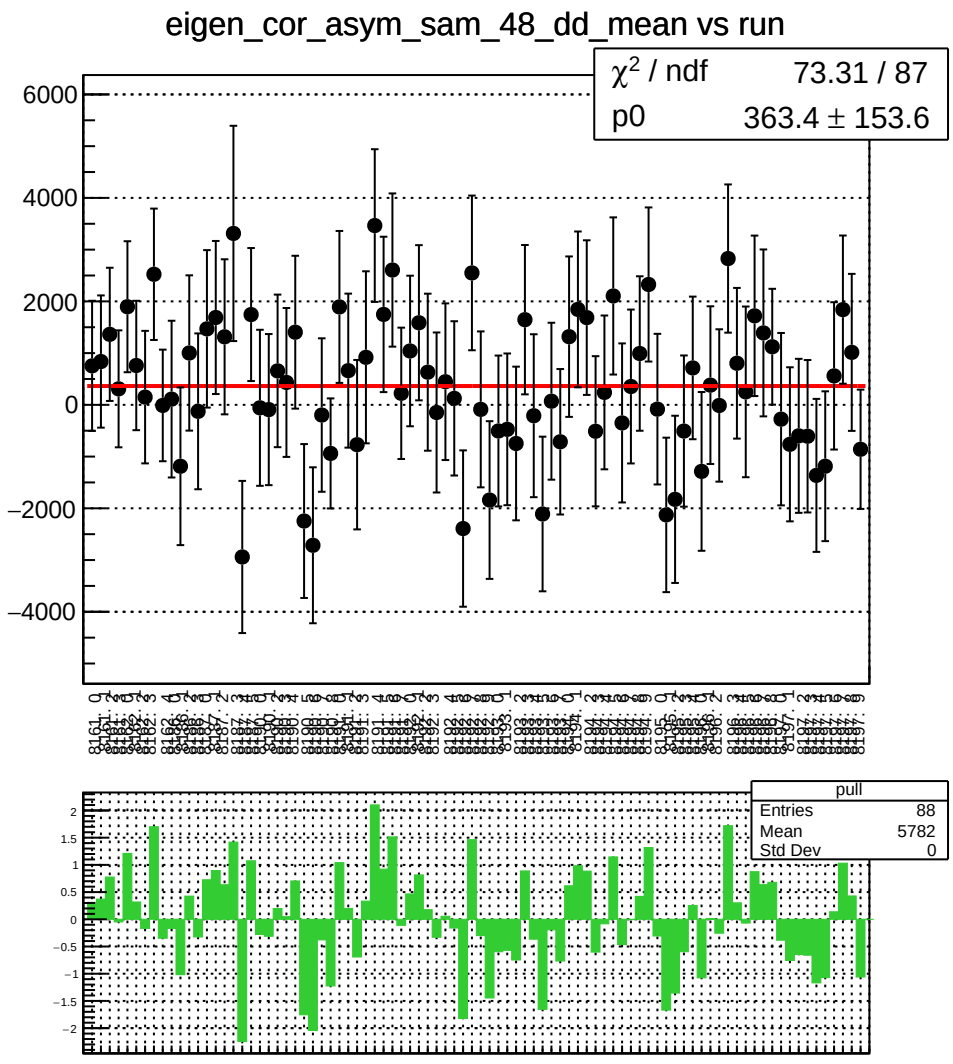

pull1D
Entries 88
Mean −0.0005594
Std Dev 0.9127
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

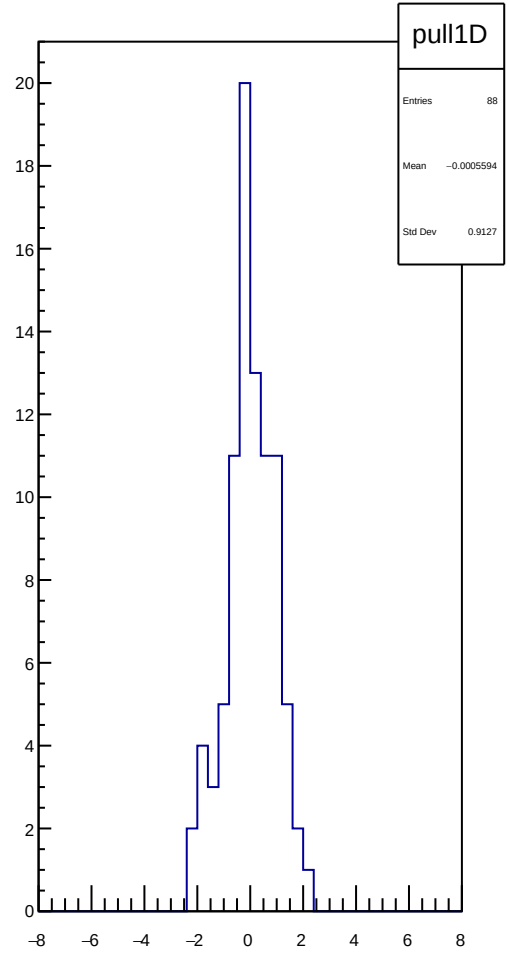

cor_asym_sam_48_dd_rms vs run
χ² / ndf 8603 / 87
p0 139.8 ± 0.1086
200
190
180
170
160
150
140
130
120
110

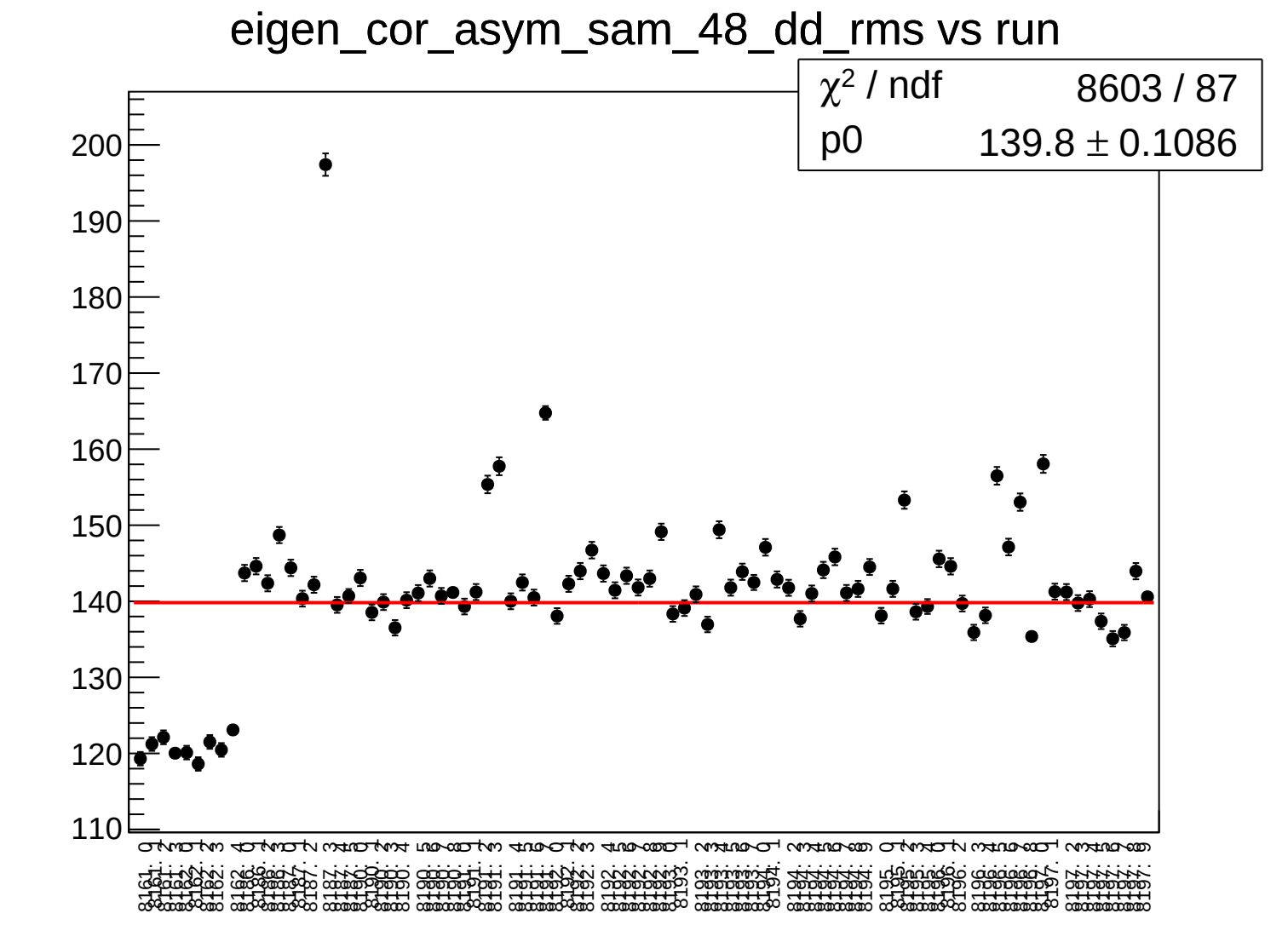

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 97.37 / 87
p0 −9794 ± 2100
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −477.5
Std Dev 0
2
1
0
−1
−2

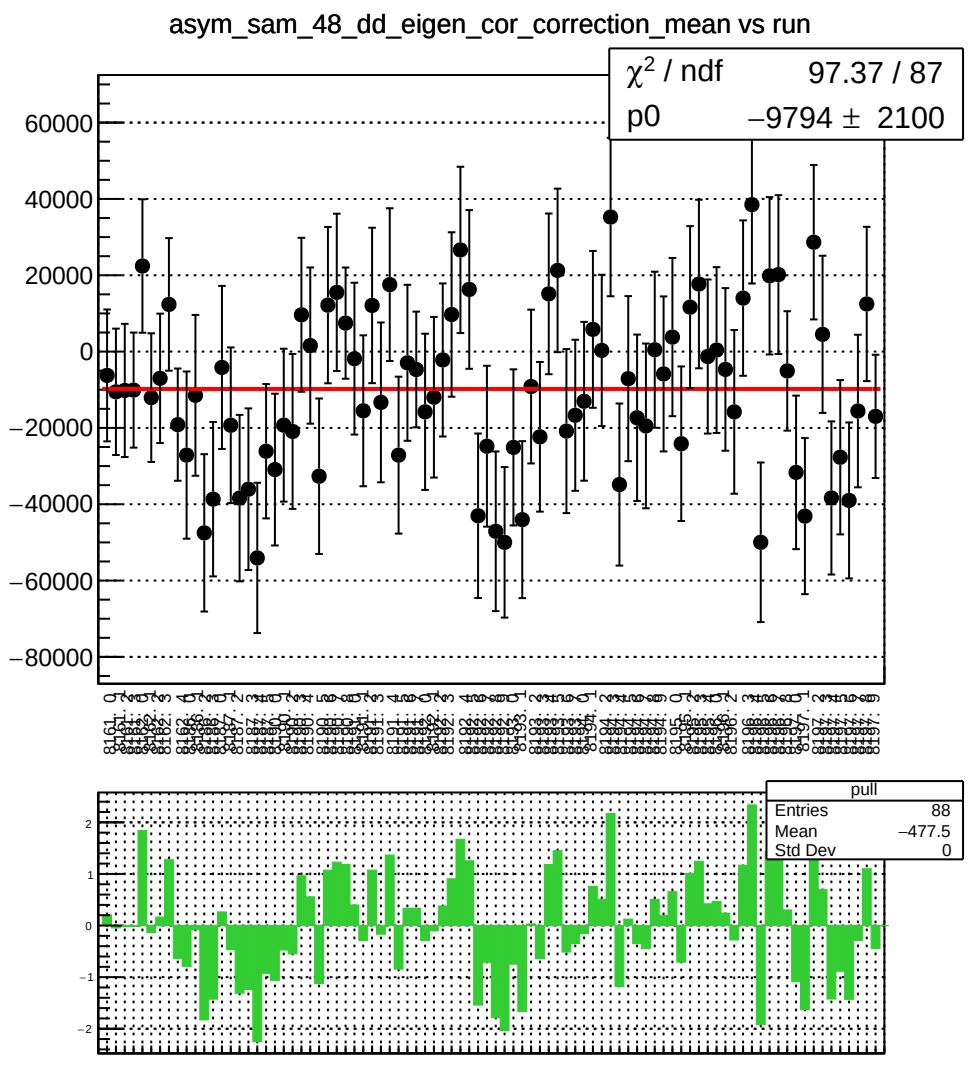

pull1D
Entries 88
Mean −0.005255
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

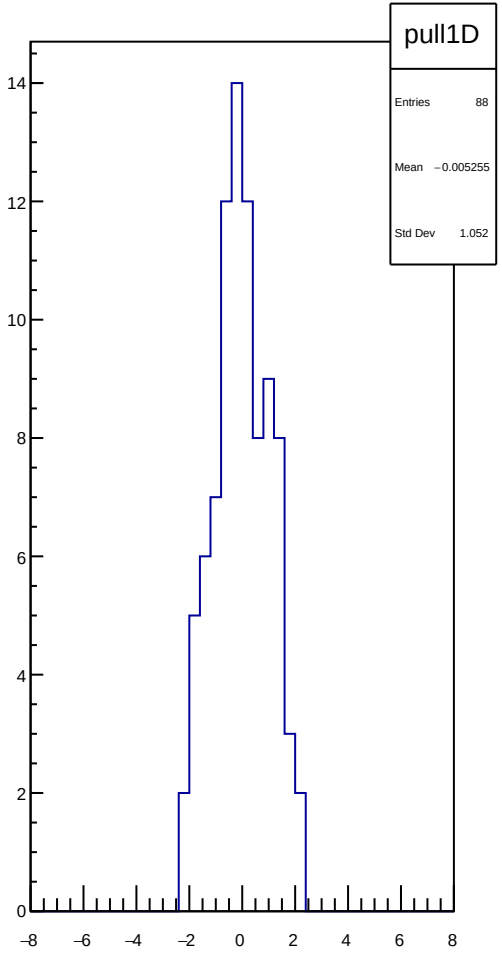

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 7441 / 87
p0 1913 ± 1.485
2100
2000
1900
1800
1700
1600

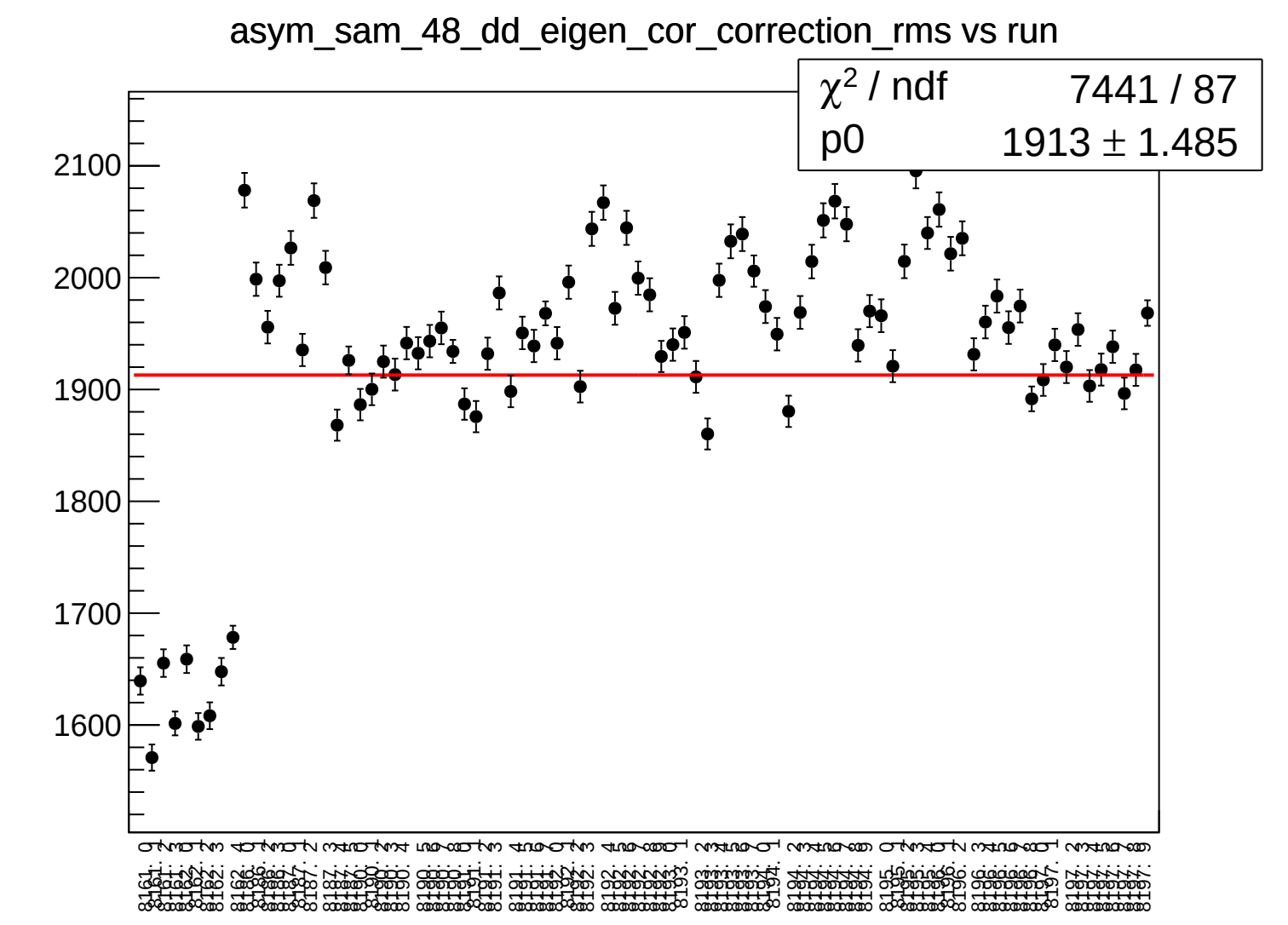

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 73.31 / 87
p0 363.4 ± 153.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 5782
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

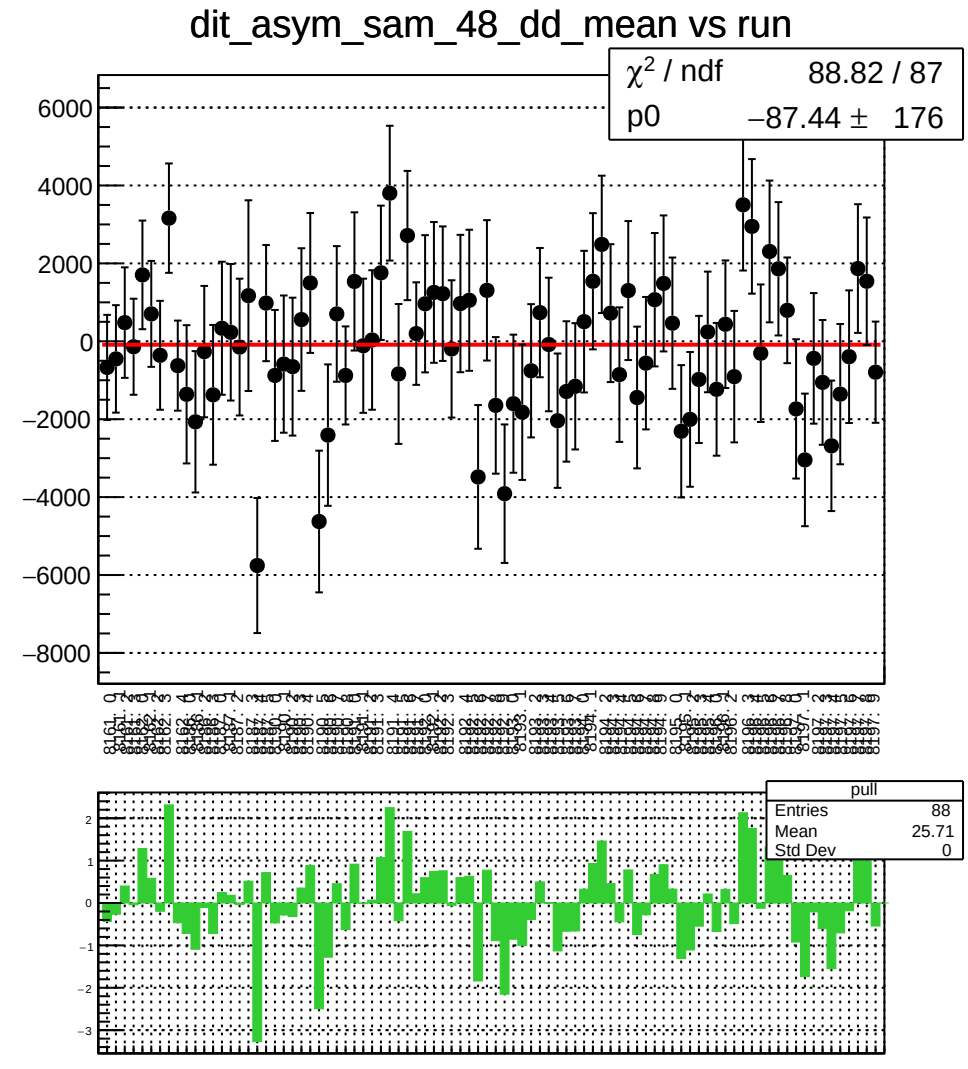

pull1D
Entries 88
Mean −0.0005594
Std Dev 0.9127
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

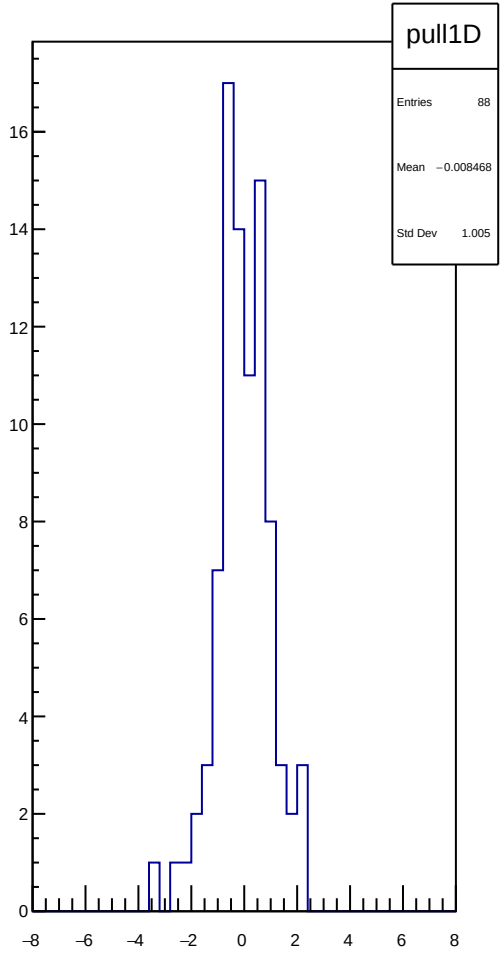

eigen_cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 8603 / 87
p0 139.8 ± 0.1086
200
190
180
170
160
150
140
130
120
110

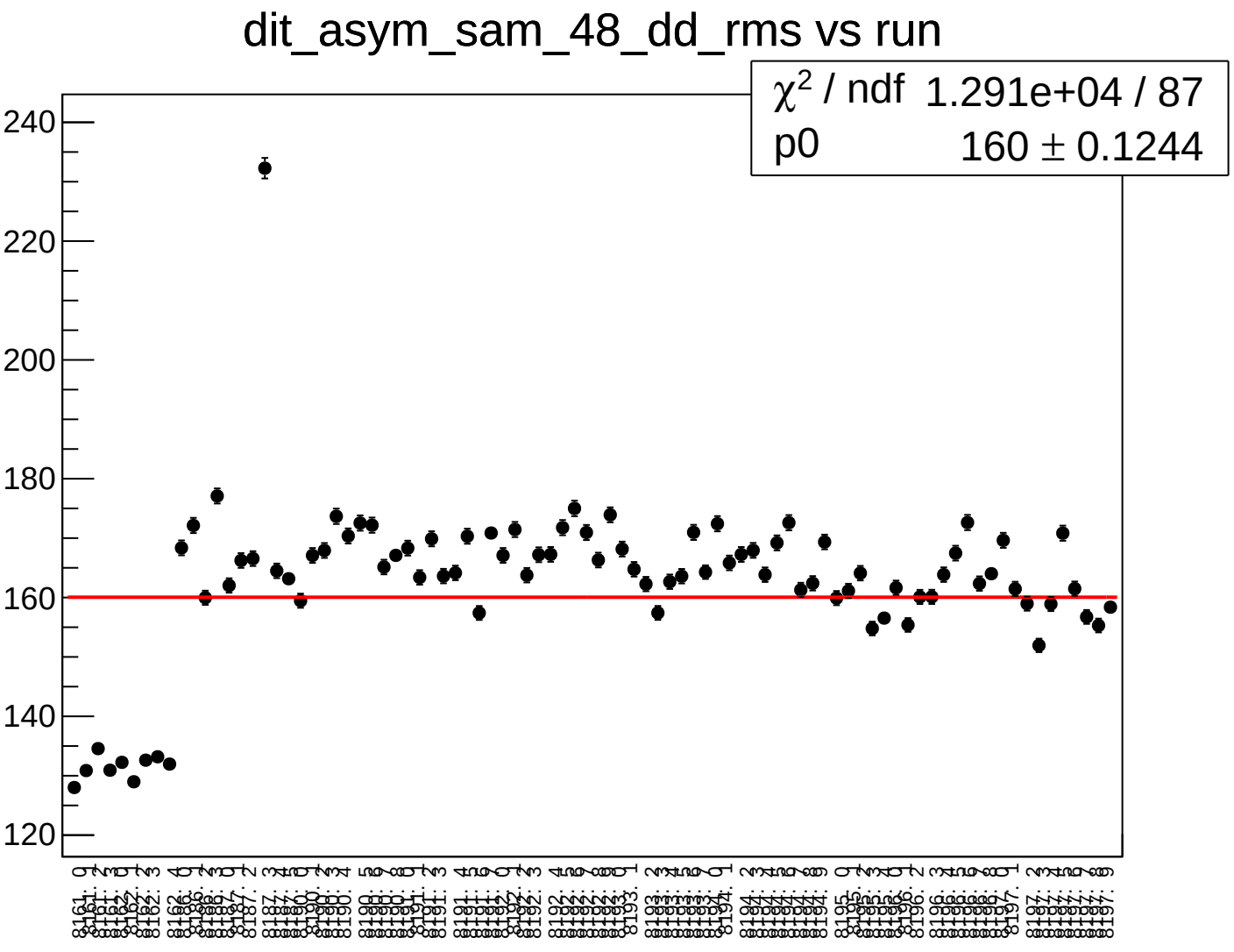

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.37 / 87
p0 −9794 ± 2100
pull
Entries 88
Mean −477.5
Std Dev 0

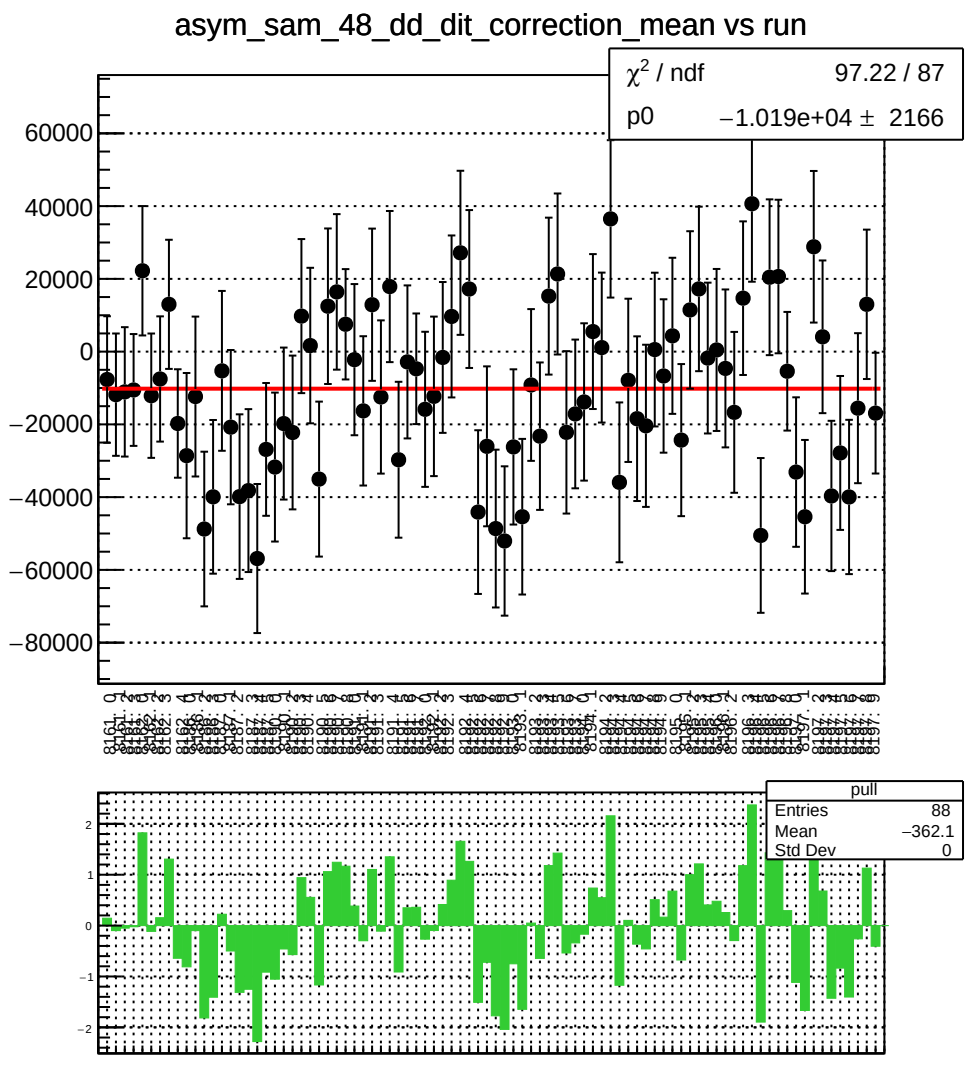

pull1D
Entries 88
Mean −0.005255
Std Dev 1.052

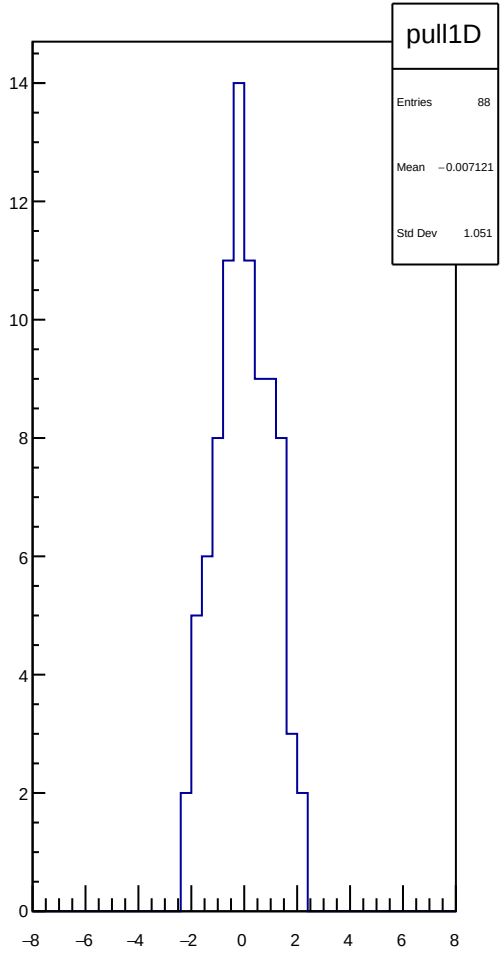

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7441 / 87
p0 1913 ± 1.485
2100
2000
1900
1800
1700
1600

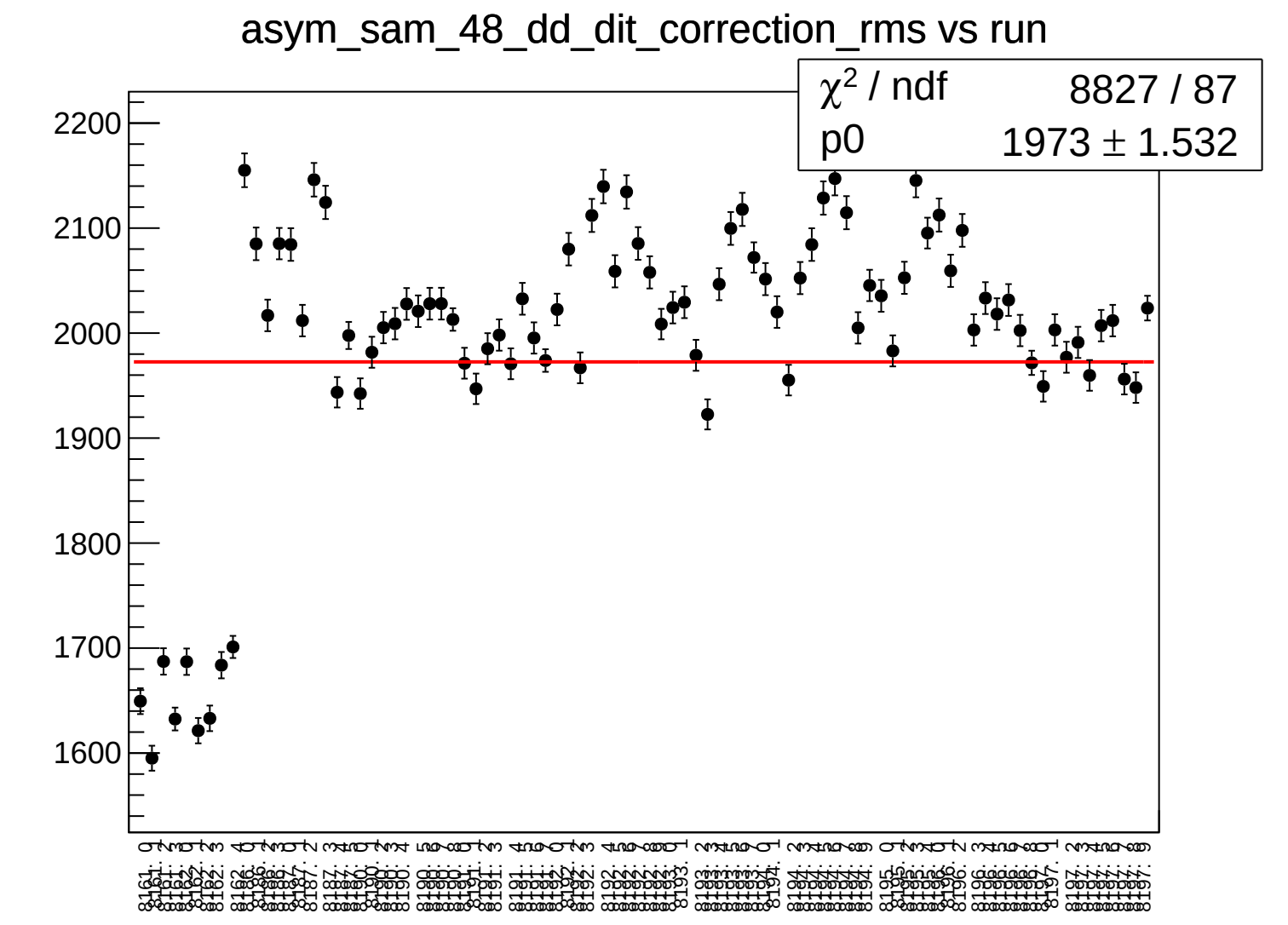

dit_asym_sam_48_dd_mean vs run
χ² / ndf 88.82 / 87
p0 −87.44 ± 176
pull
Entries 88
Mean 25.71
Std Dev 0

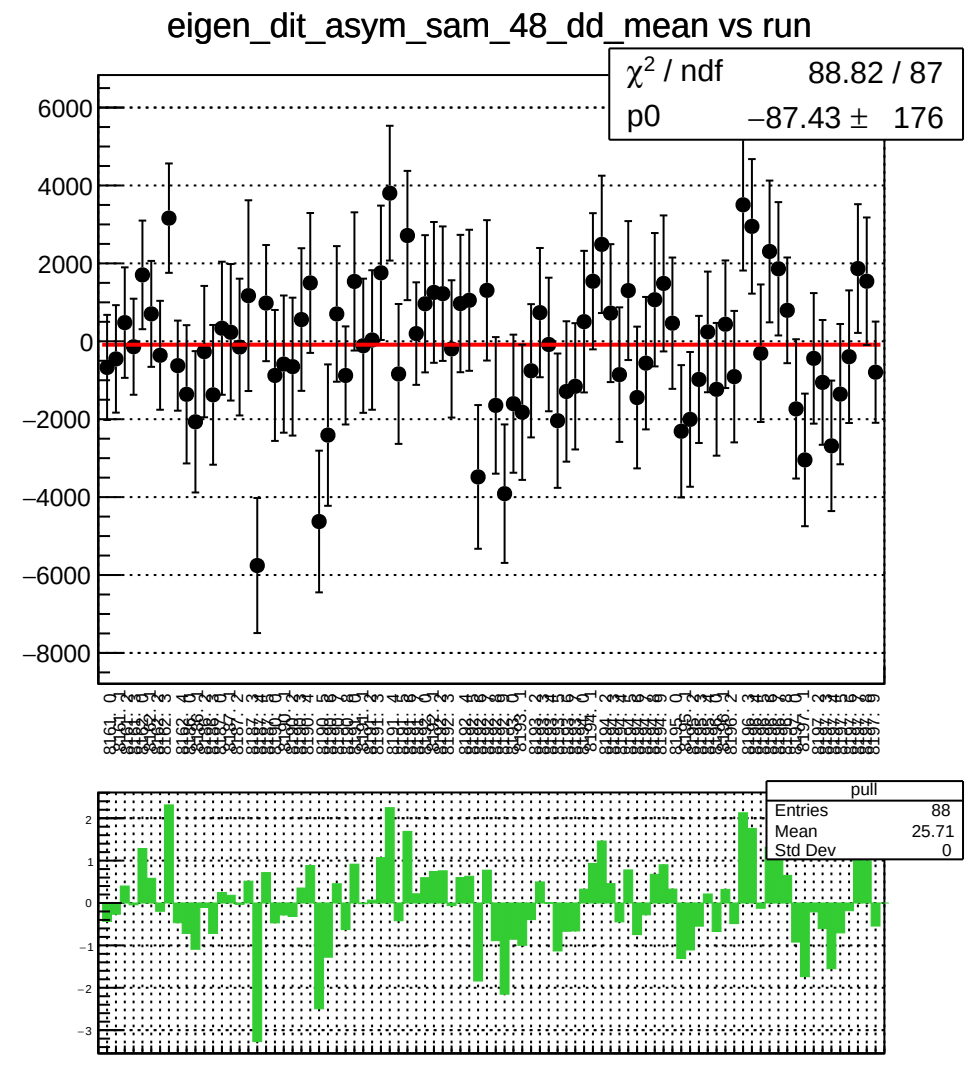

pull1D
Entries 88
Mean −0.008468
Std Dev 1.005

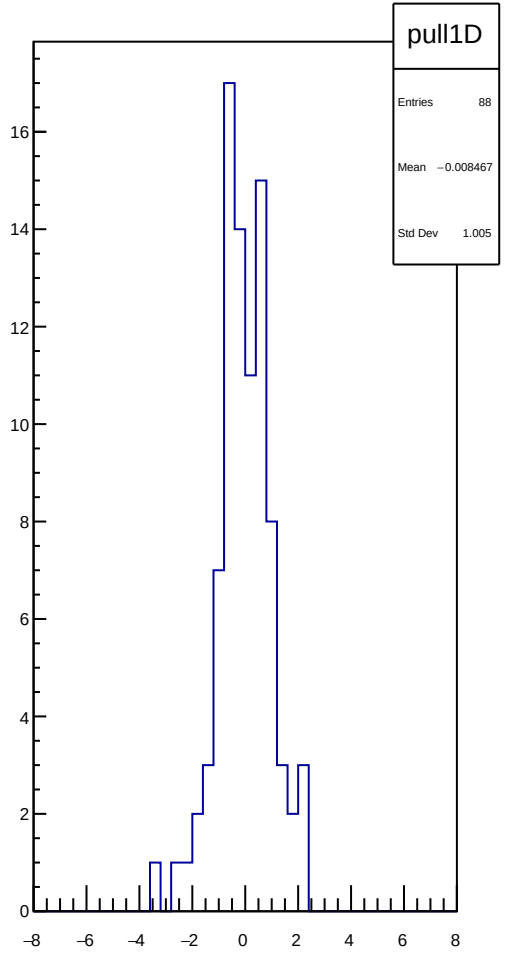

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.291e+04 / 87
p0 160 ± 0.1244
240
220
200
180
160
140
120

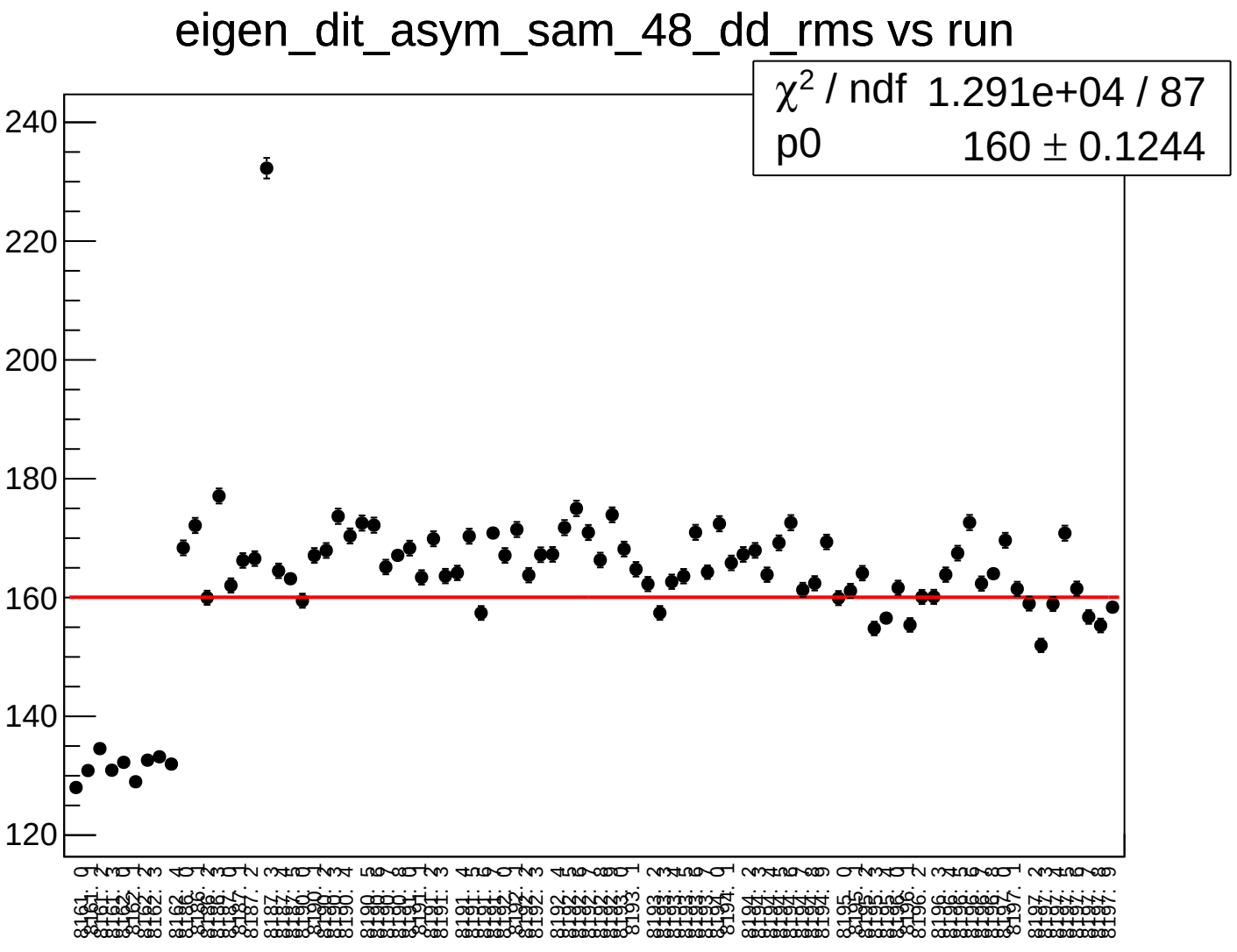

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 97.22 / 87
p0 −1.019e+04 ± 2166
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −362.1
Std Dev 0
2
1
0
−1
−2

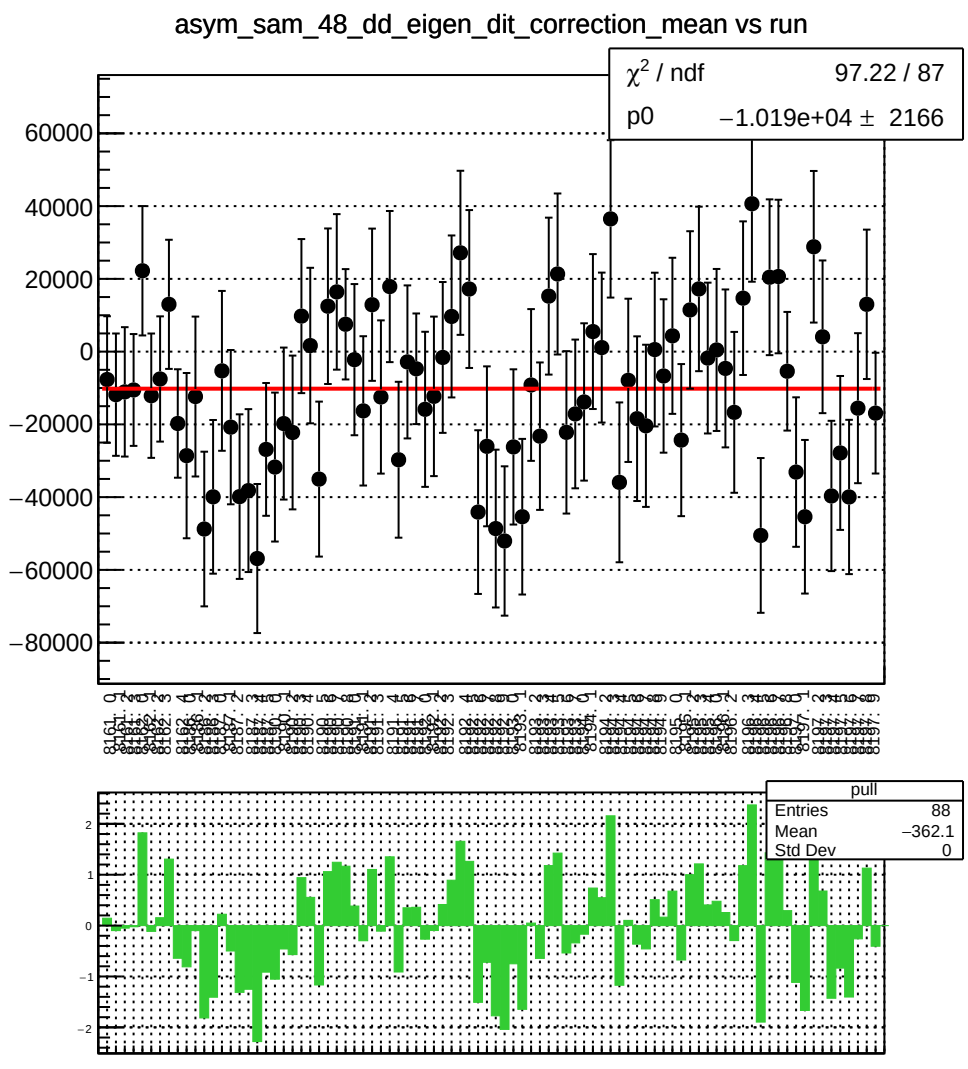

pull1D
Entries 88
Mean −0.007121
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

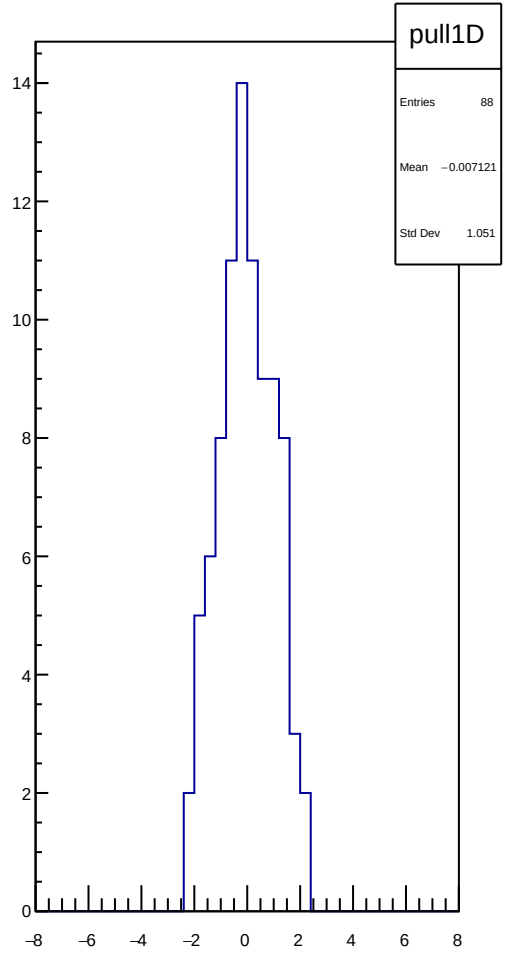

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 8827 / 87
p0 1973 ± 1.532
2200
2100
2000
1900
1800
1700
1600

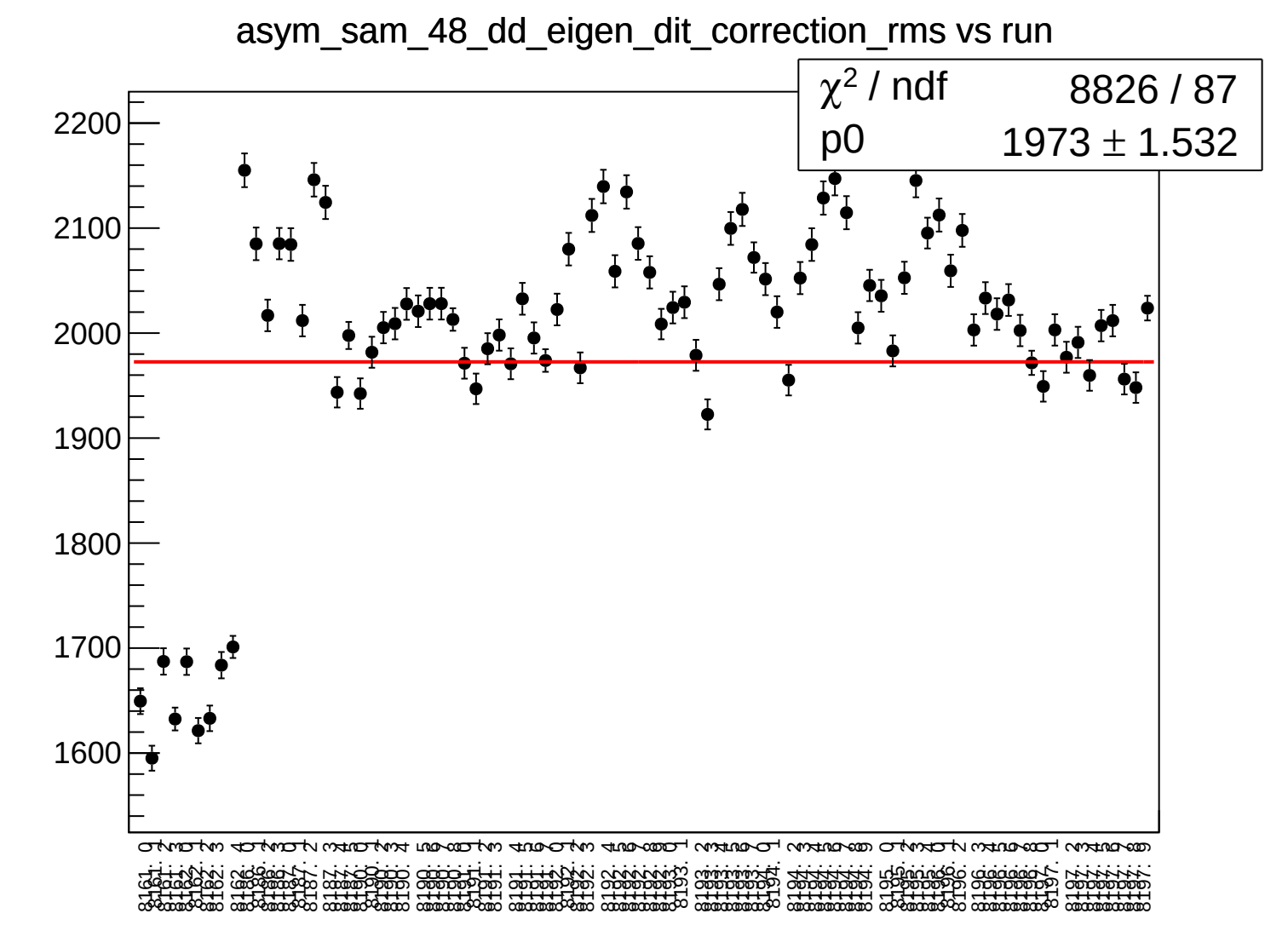

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 88.82 / 87
p0 −87.43 ± 176
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 25.71
Std Dev 0
2
1
0
−1
−2
−3

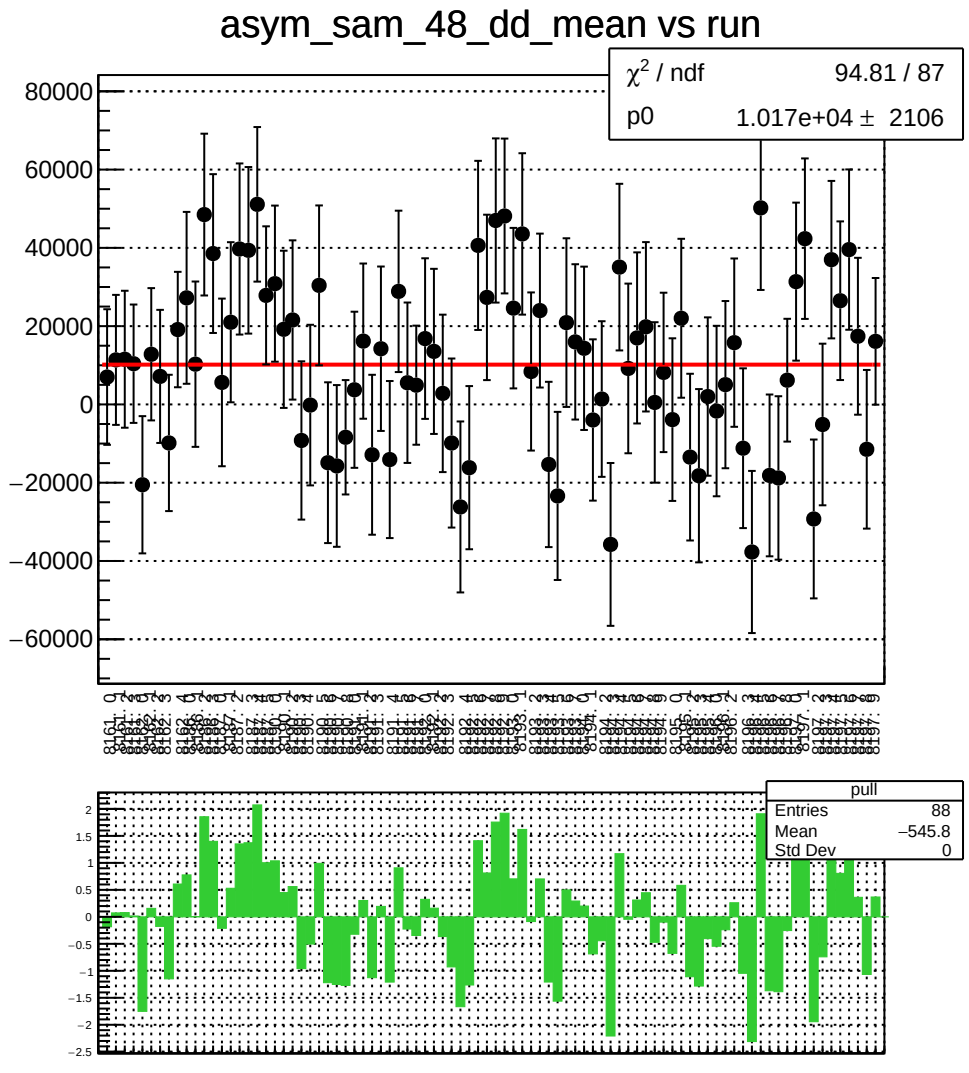

pull1D
Entries 88
Mean −0.008467
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

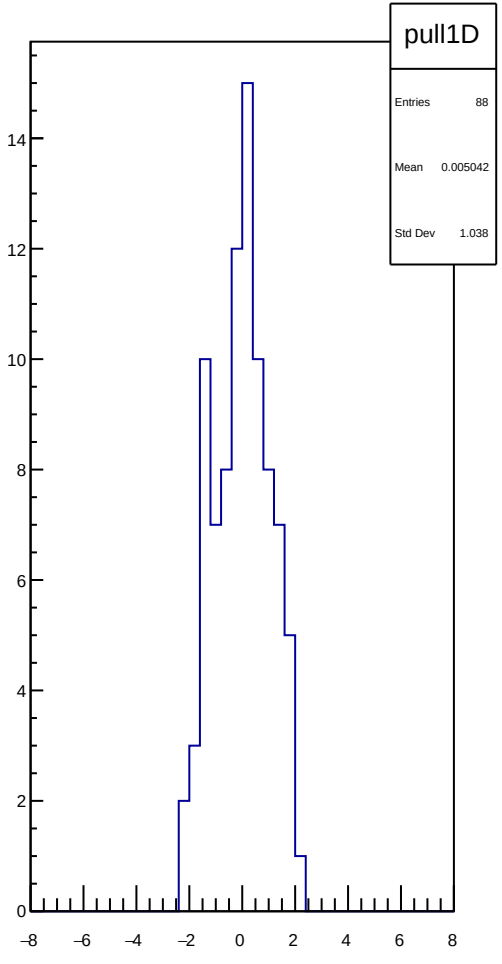

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.291e+04 / 87
p0 160 ± 0.1244
240
220
200
180
160
140
120

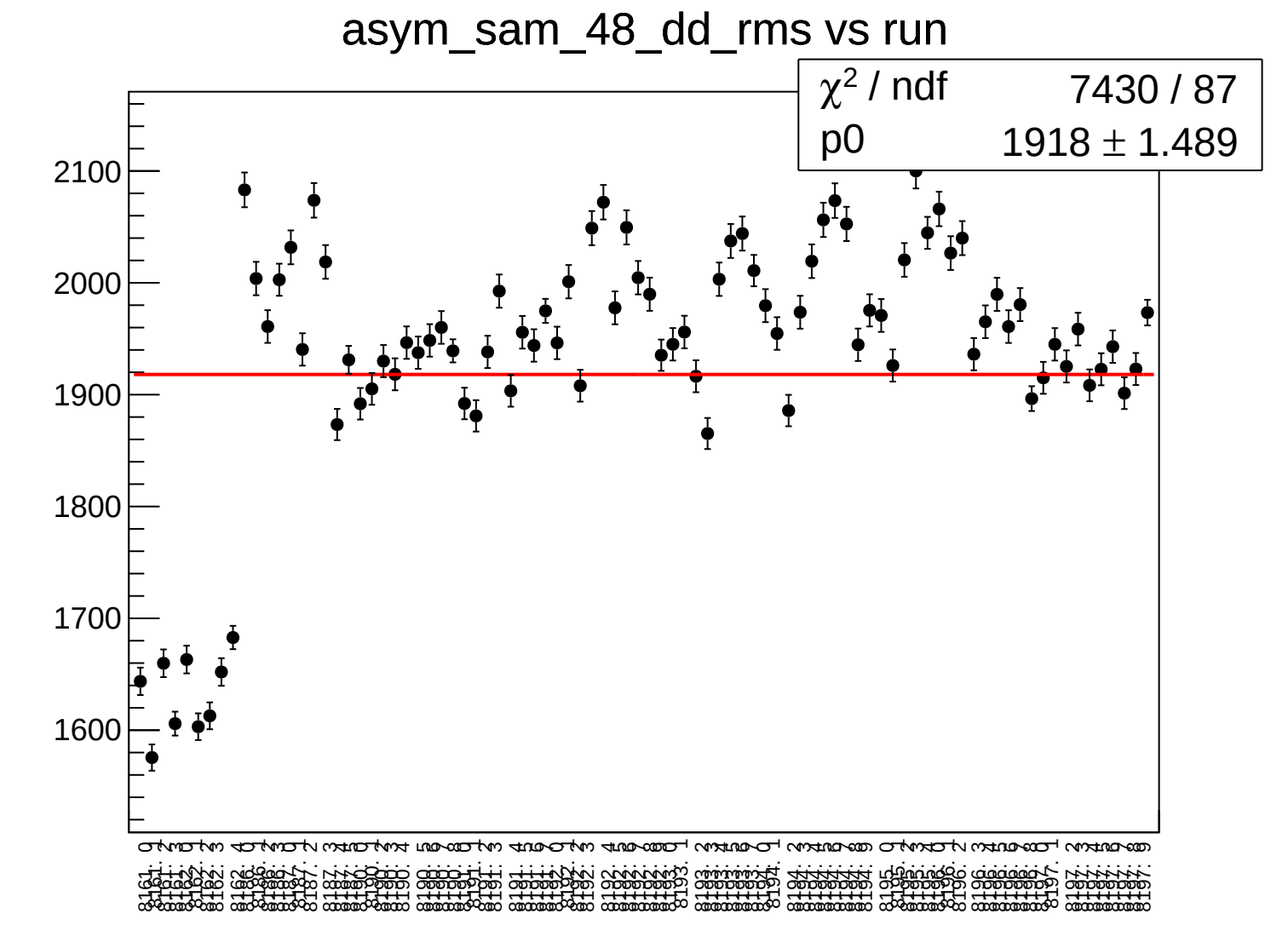

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.22 / 87
p0 −1.019e+04 ± 2166
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −362.1
Std Dev 0
2
1
0
−1
−2

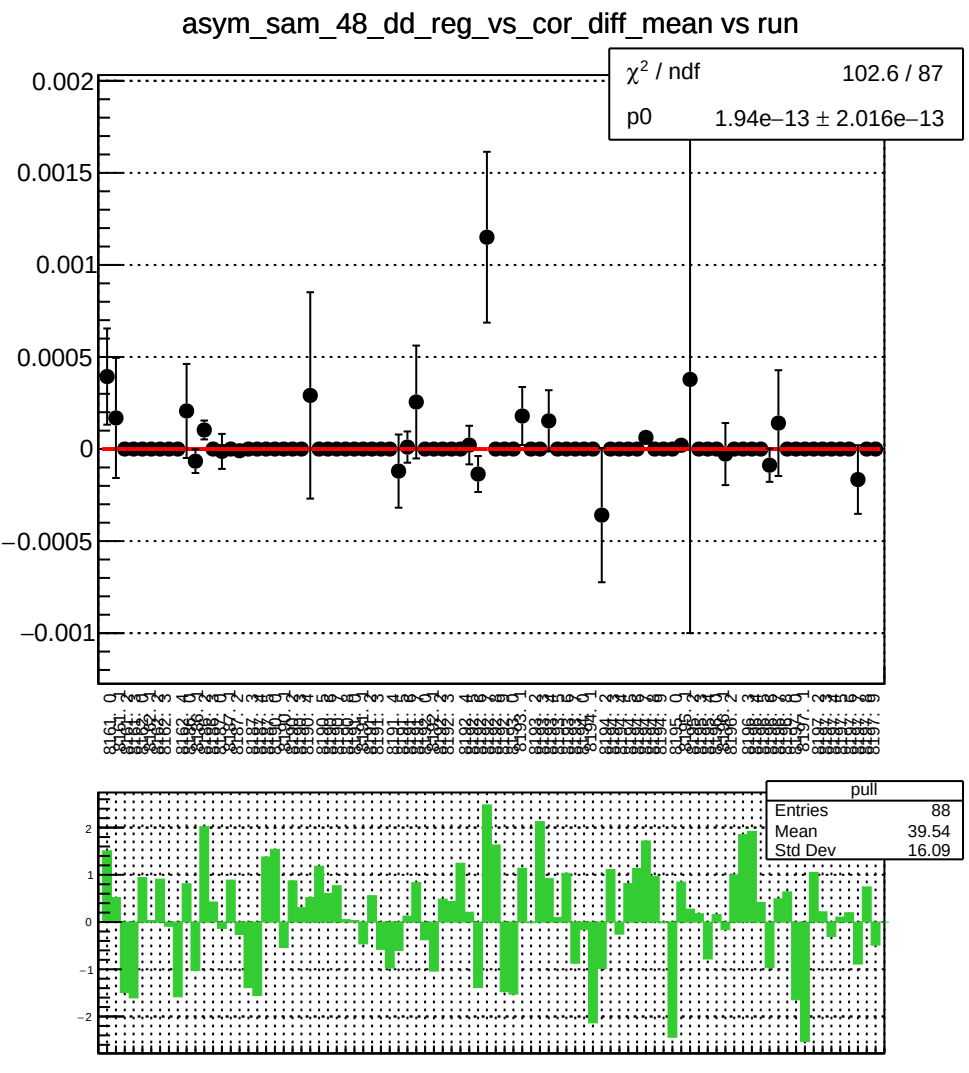

pull1D
Entries 88
Mean −0.007121
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

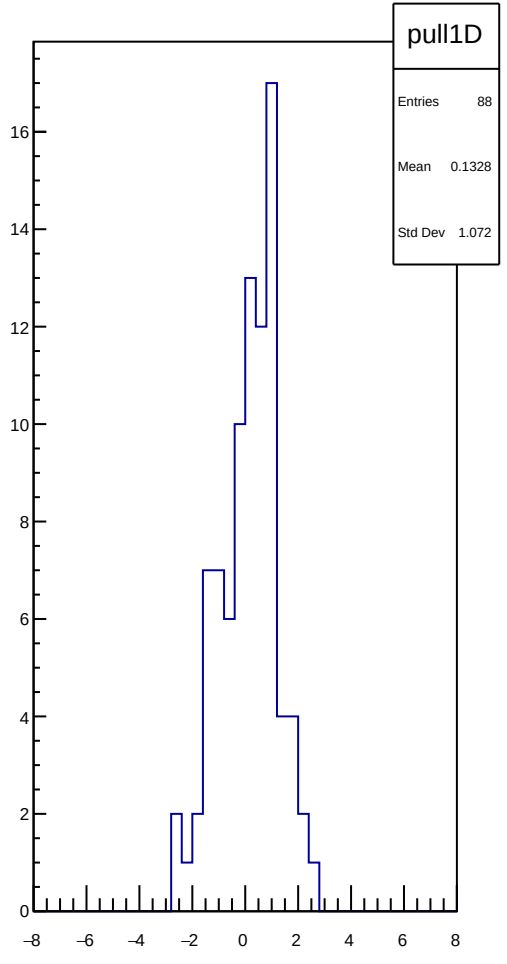

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8826 / 87
p0 1973 ± 1.532
2200
2100
2000
1900
1800
1700
1600

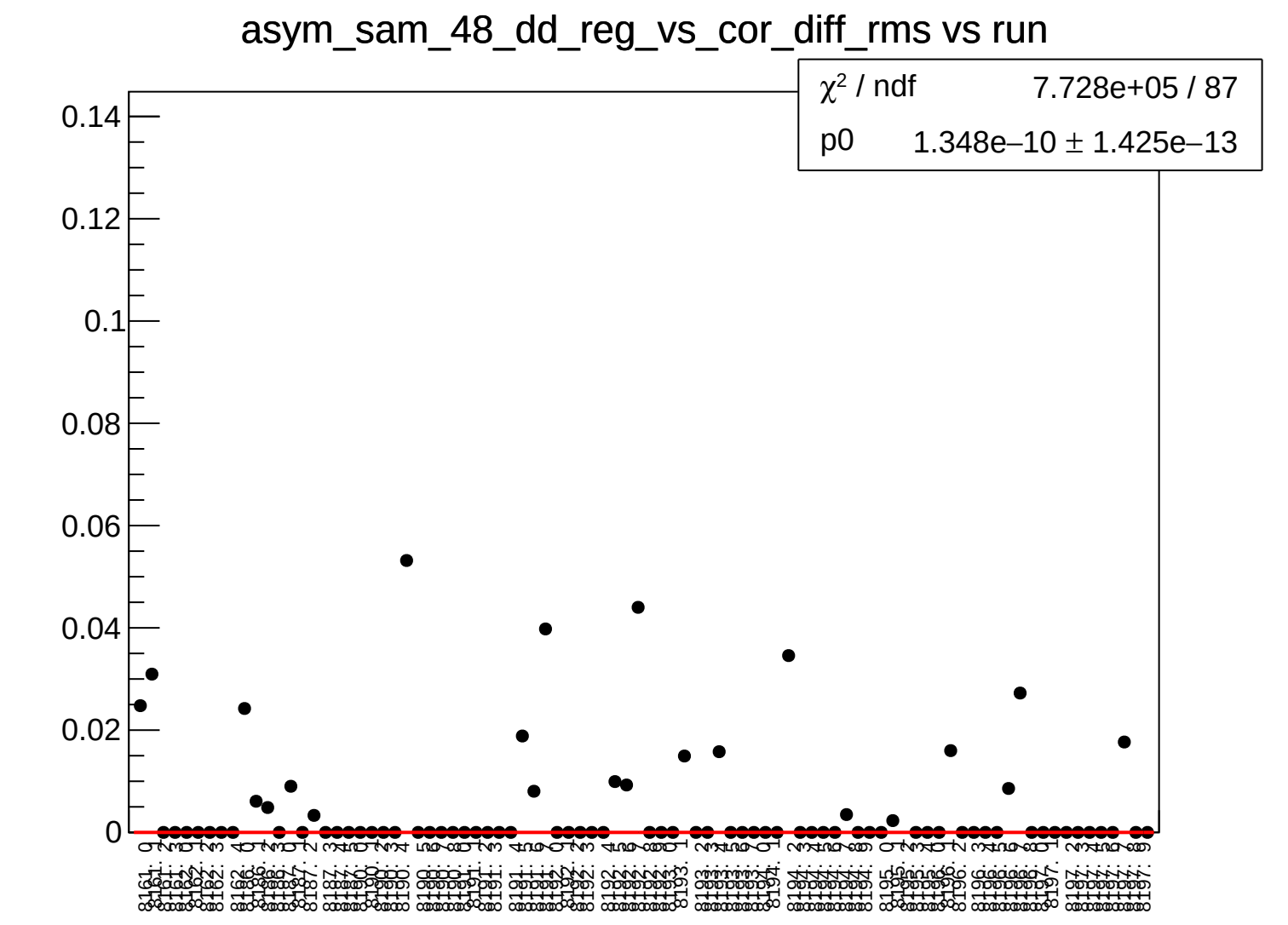

asym_sam_48_dd_mean vs run
χ² / ndf 94.81 / 87
p0 1.017e+04 ± 2106
pull
Entries 88
Mean −545.8
Std Dev 0

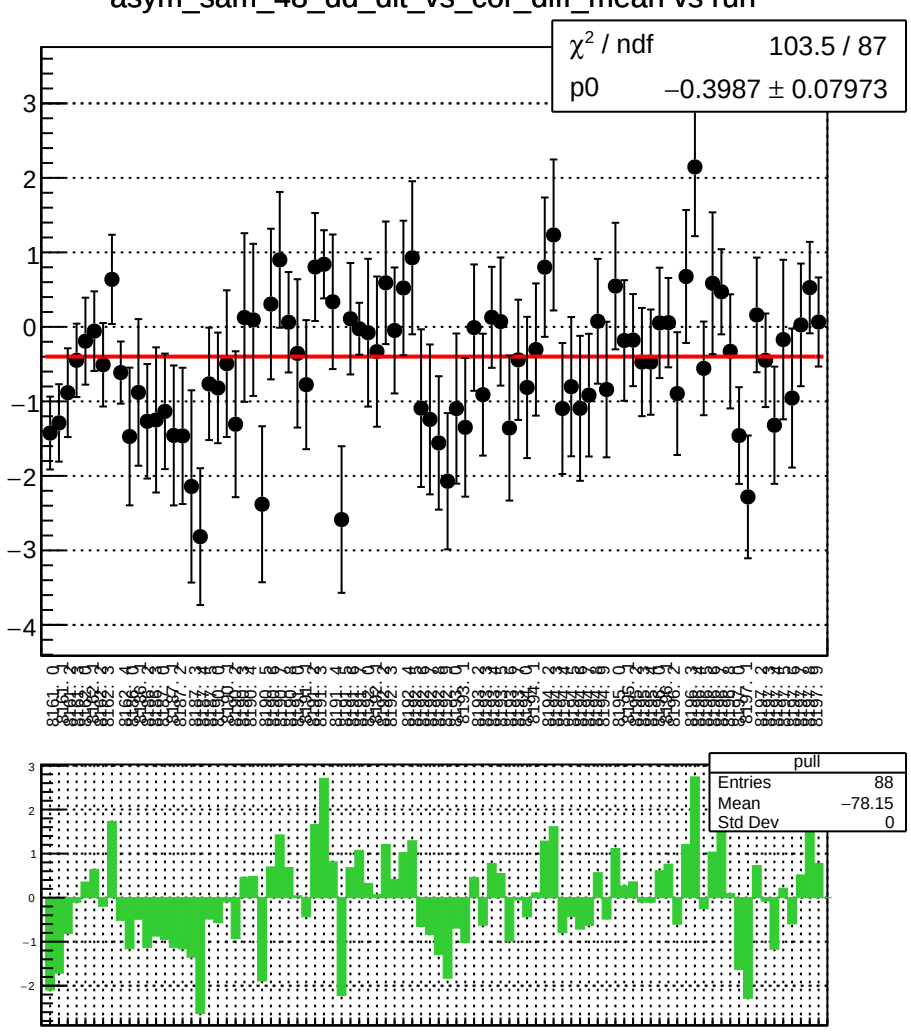

pull1D
Entries 88
Mean 0.005042
Std Dev 1.038

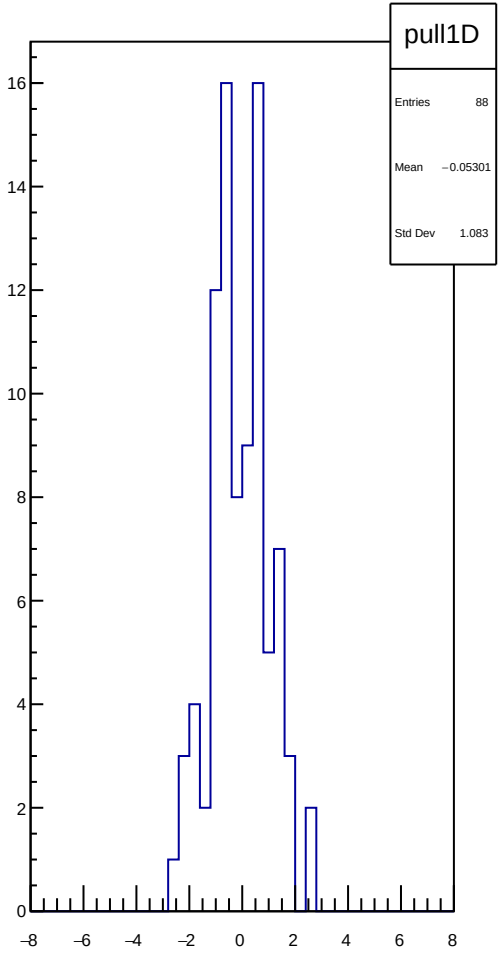

asym_sam_48_dd_rms vs run
χ² / ndf 7430 / 87
p0 1918 ± 1.489
2100
2000
1900
1800
1700
1600

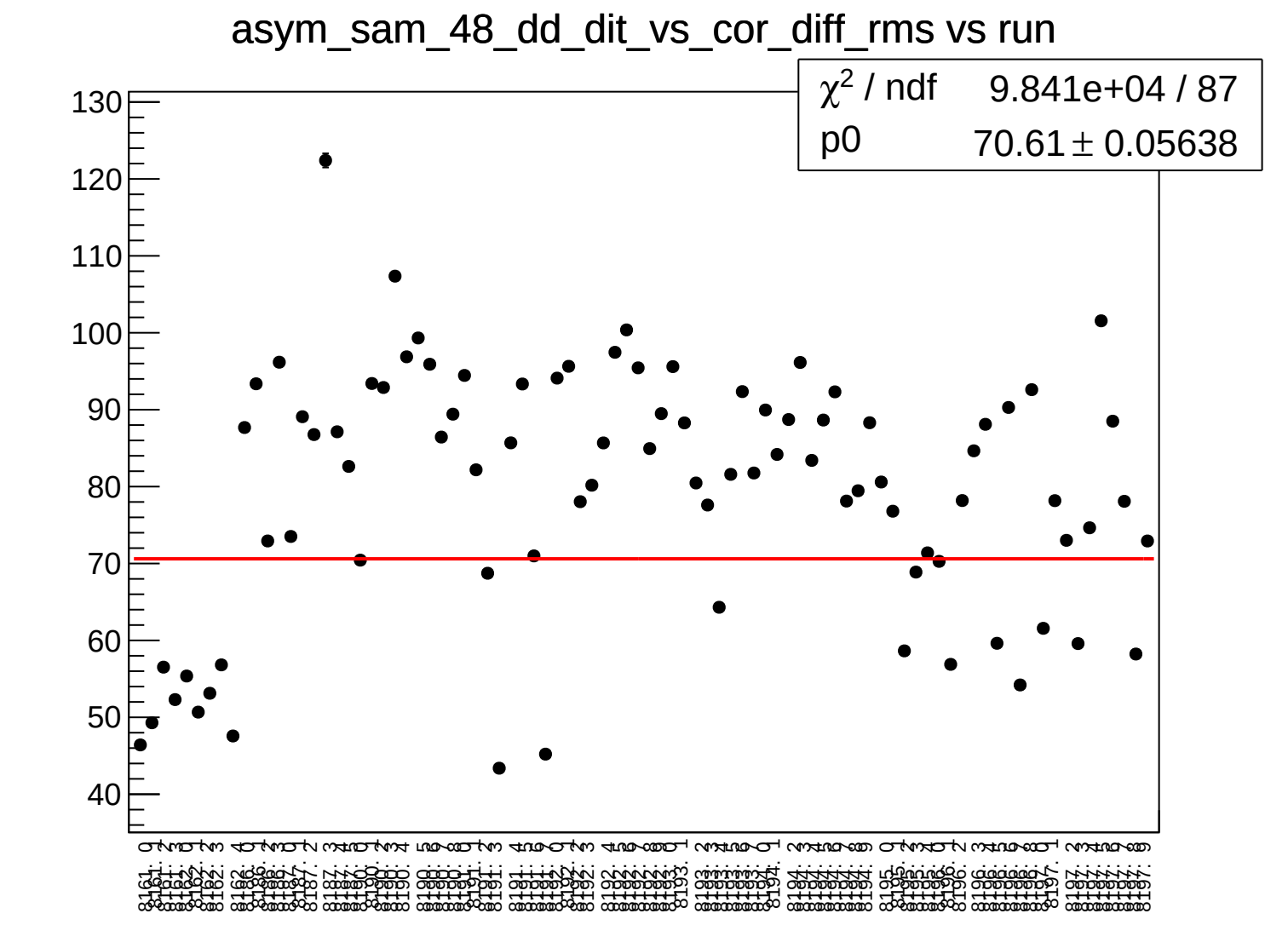

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 87
p0 1.94e−13 ± 2.016e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 39.54
Std Dev 16.09
2
1
0
−1
−2

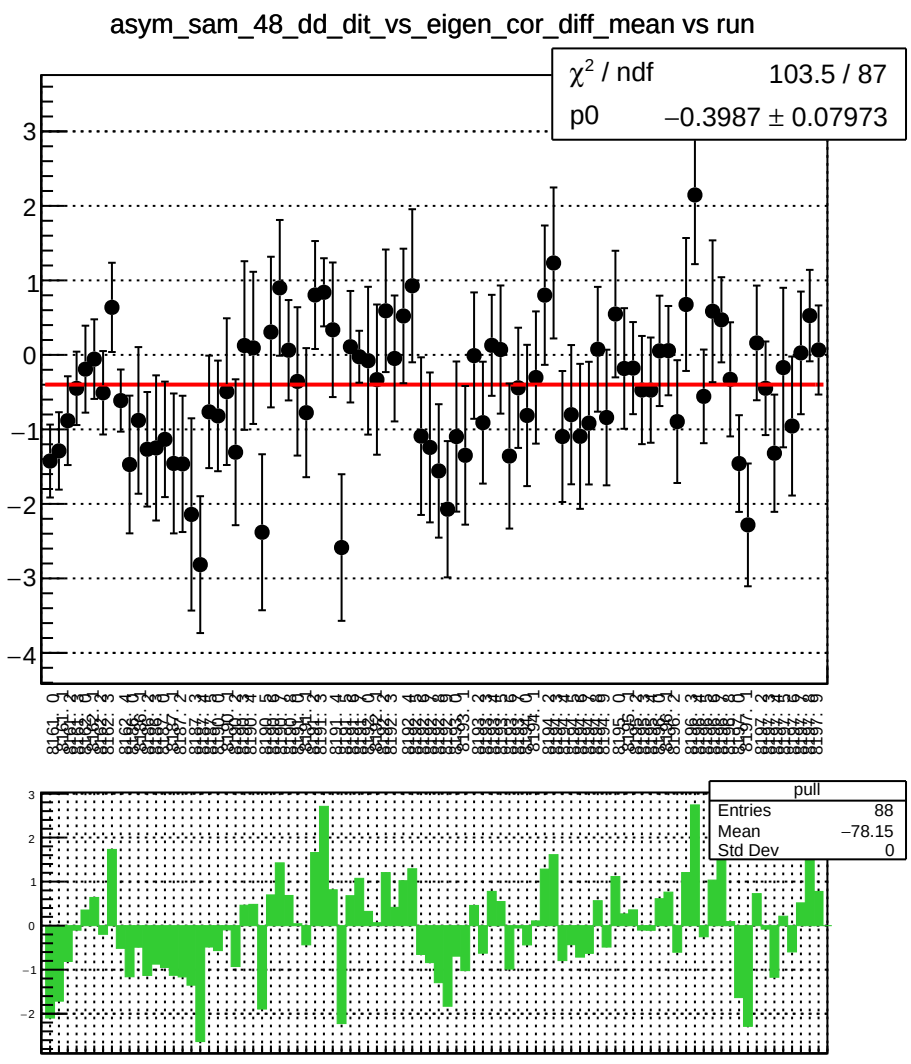

pull1D
Entries 88
Mean 0.1328
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

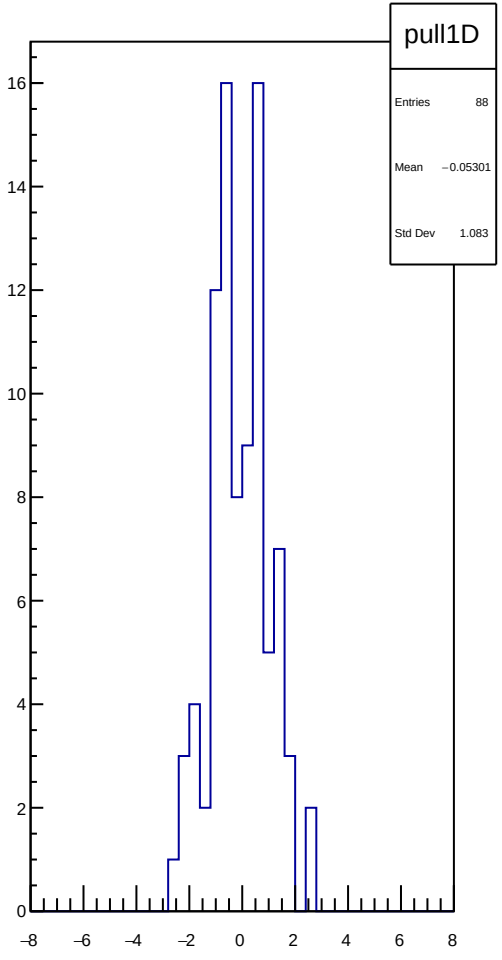

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.728e+05 / 87
p0 1.348e−10 ± 1.425e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

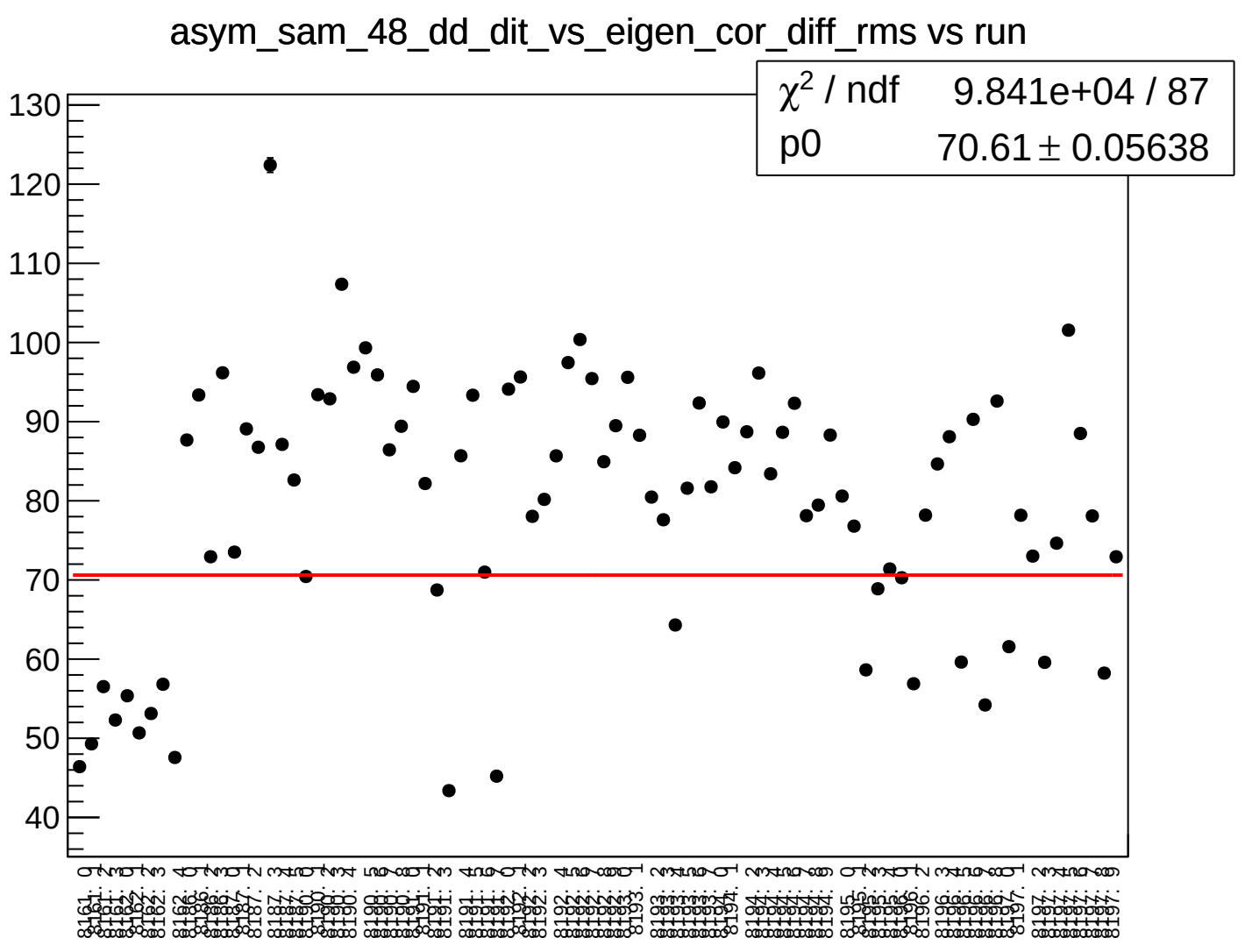

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 87
p0 −0.3987 ± 0.07973
pull
Entries 88
Mean −78.15
Std Dev 0

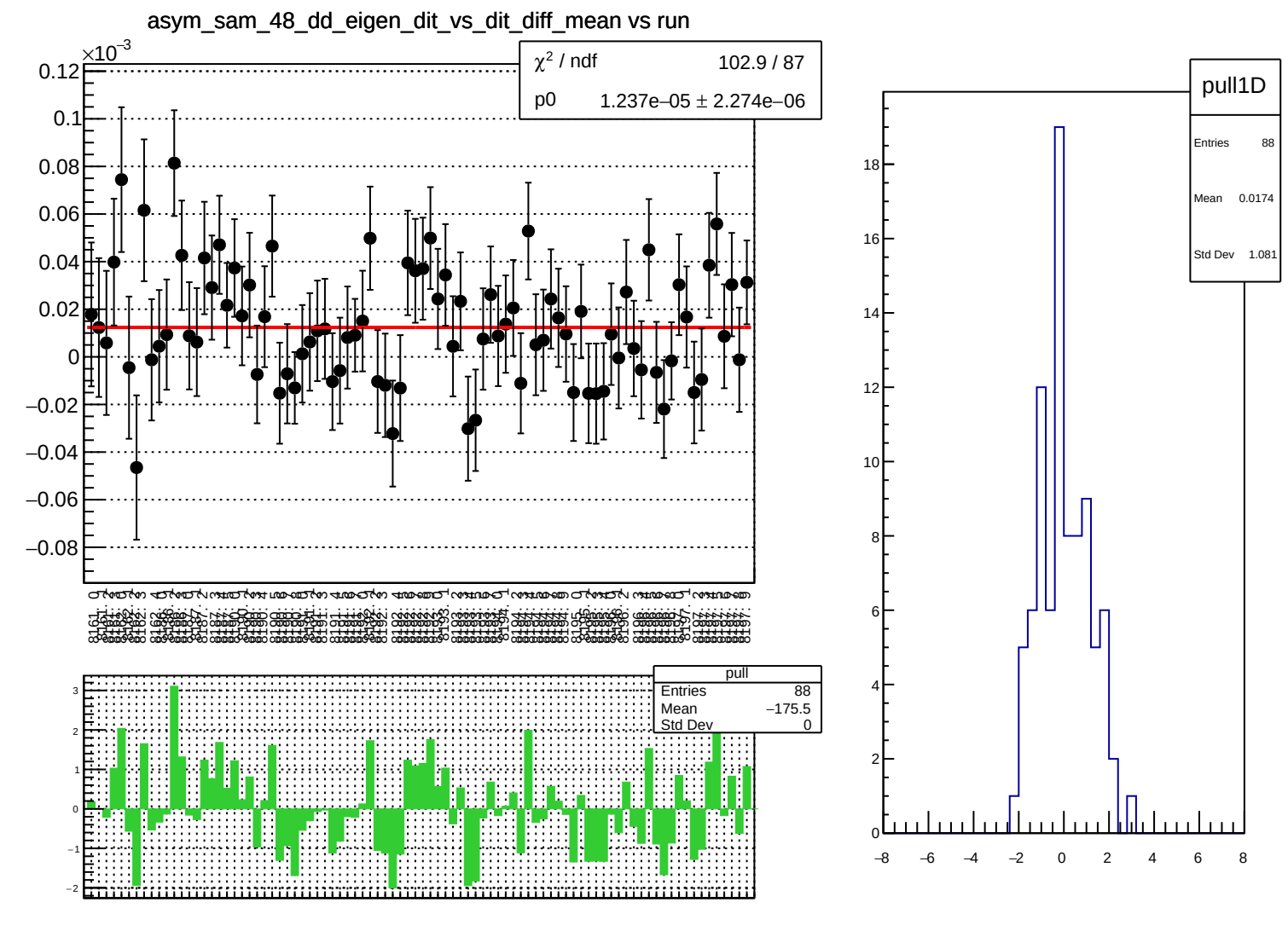

pull1D
Entries 88
Mean −0.05301
Std Dev 1.083

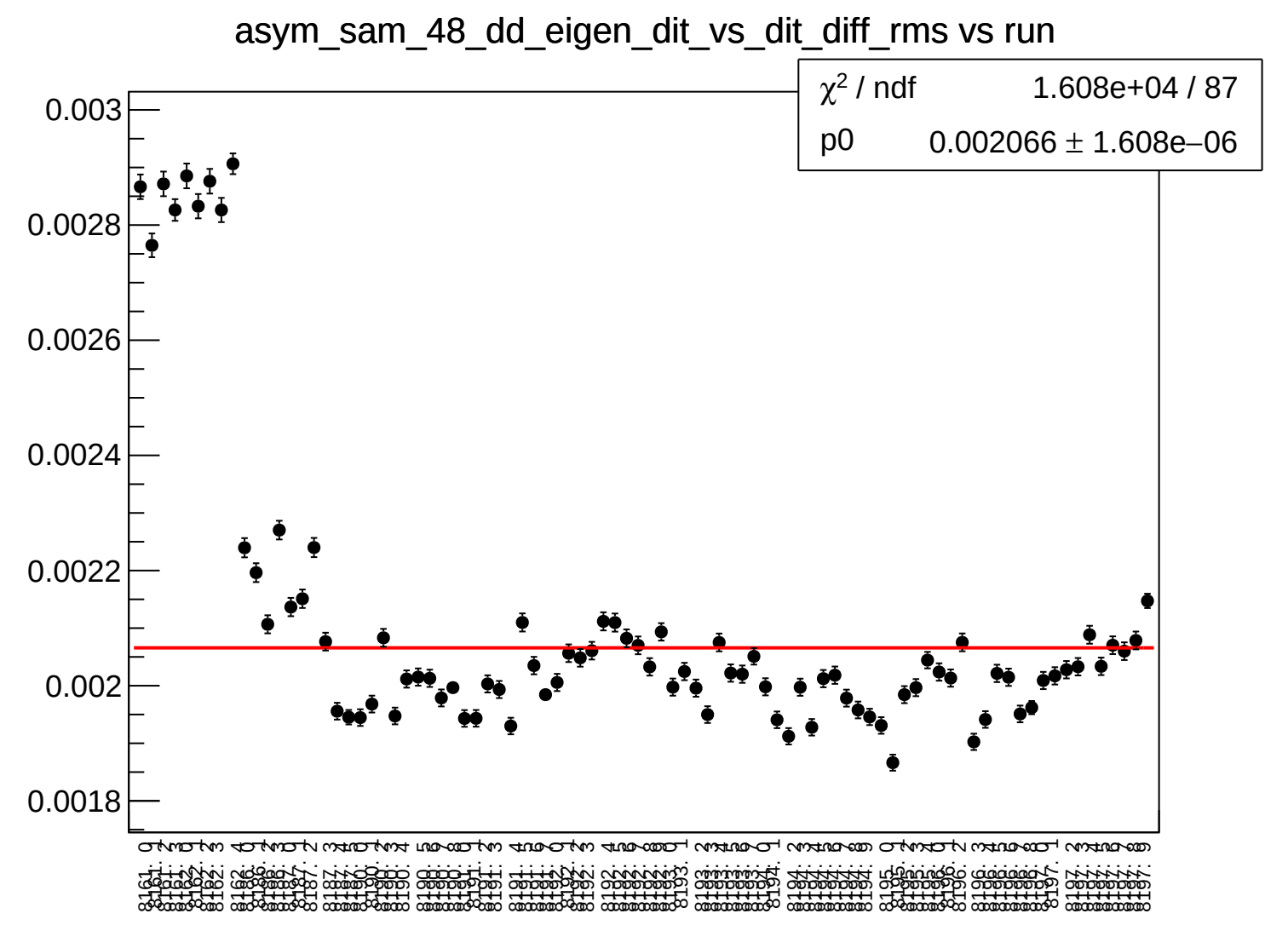

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.841e+04 / 87
p0 70.61 ± 0.05638
130
120
110
100
90
80
70
60
50
40

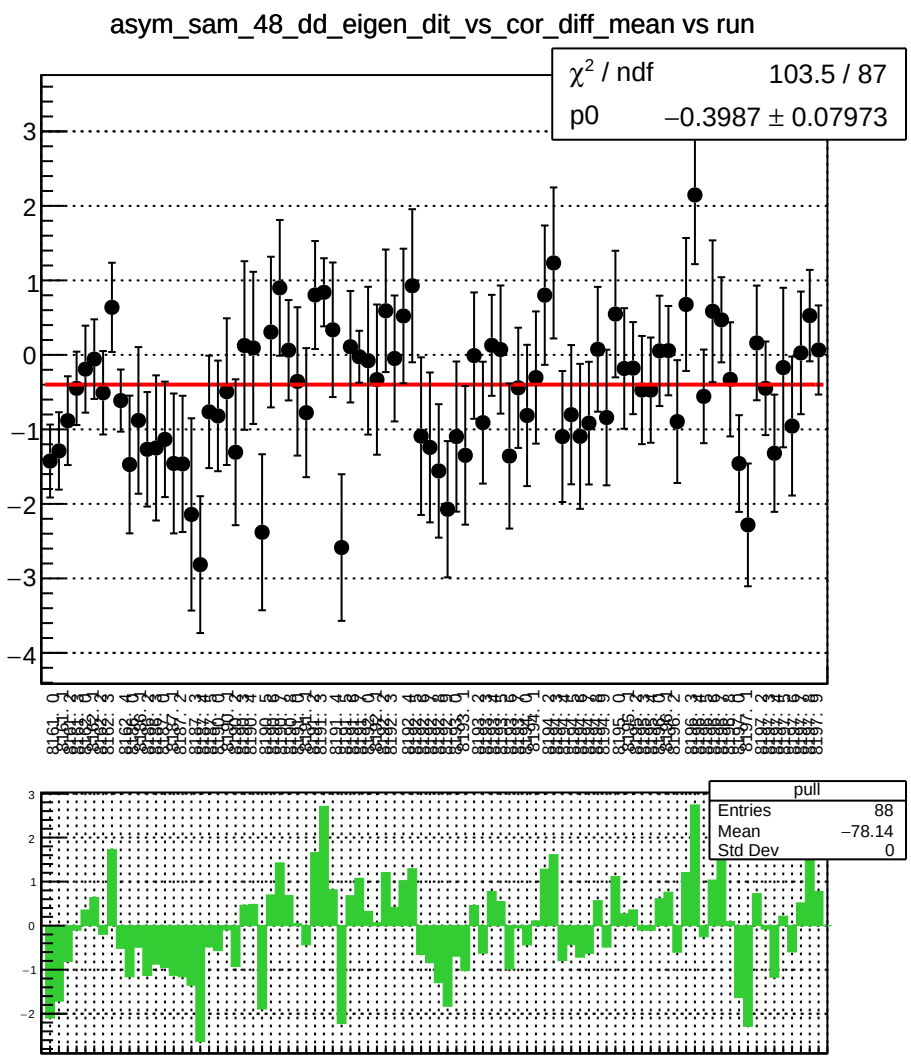

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 87
p0 −0.3987 ± 0.07973
pull
Entries 88
Mean −78.15
Std Dev 0

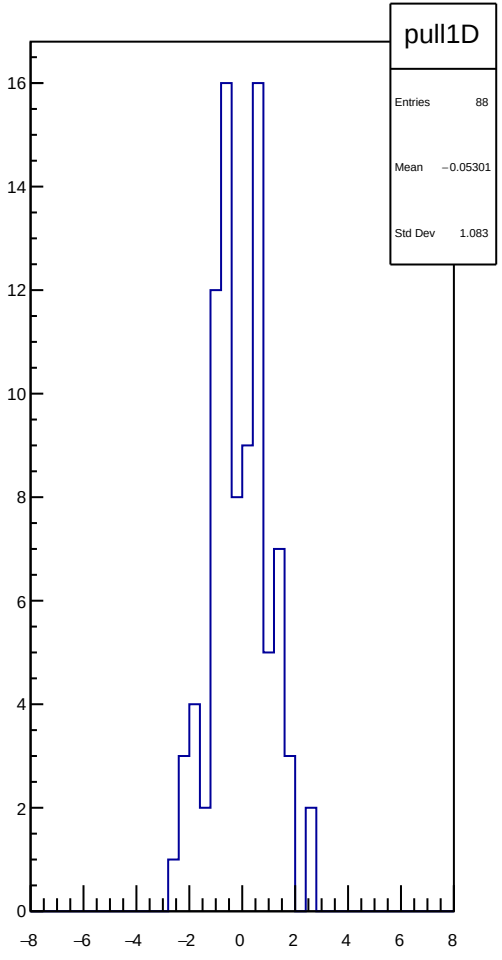

pull1D
Entries 88
Mean −0.05301
Std Dev 1.083

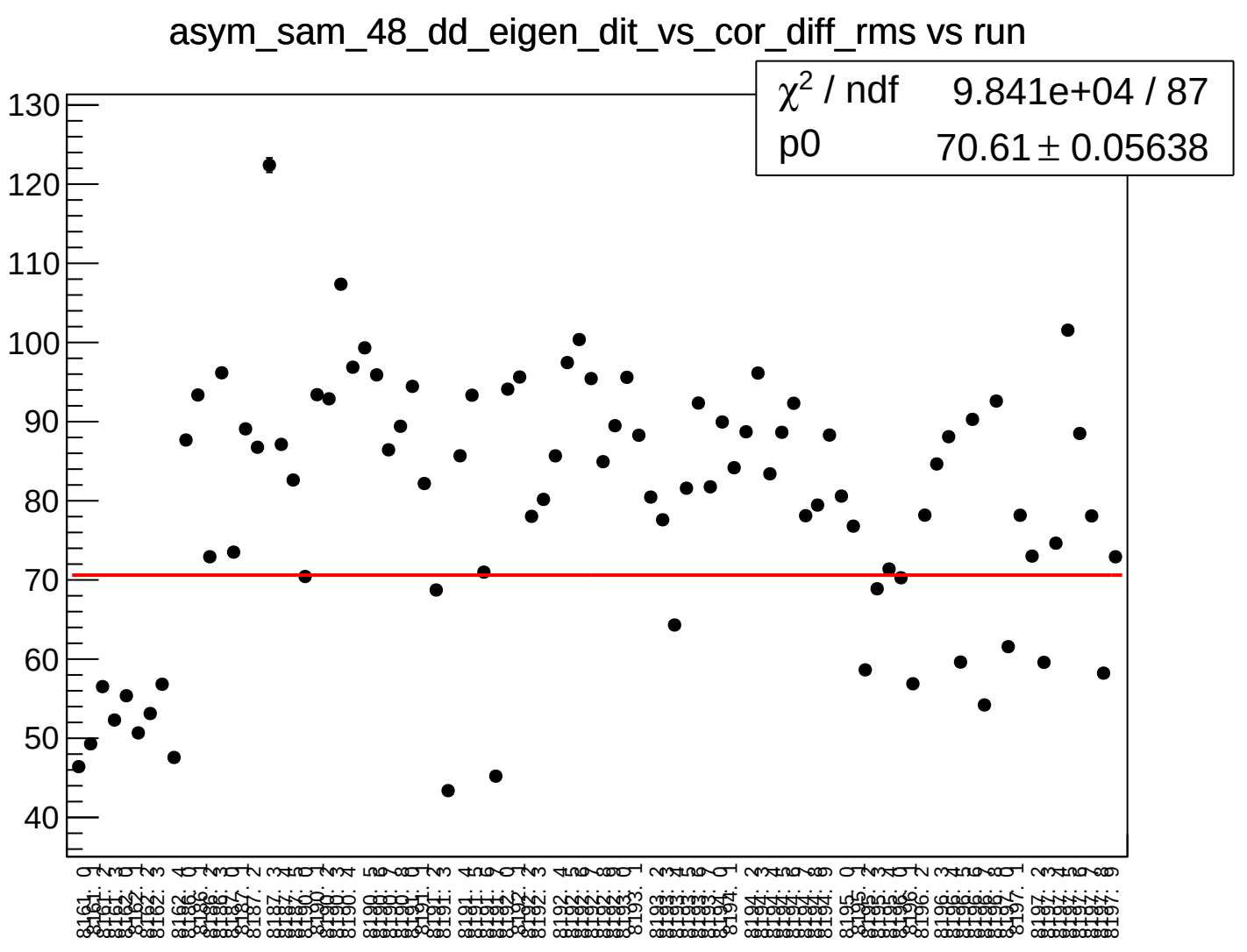

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.841e+04 / 87
p0 70.61 ± 0.05638
130
120
110
100
90
80
70
60
50
40

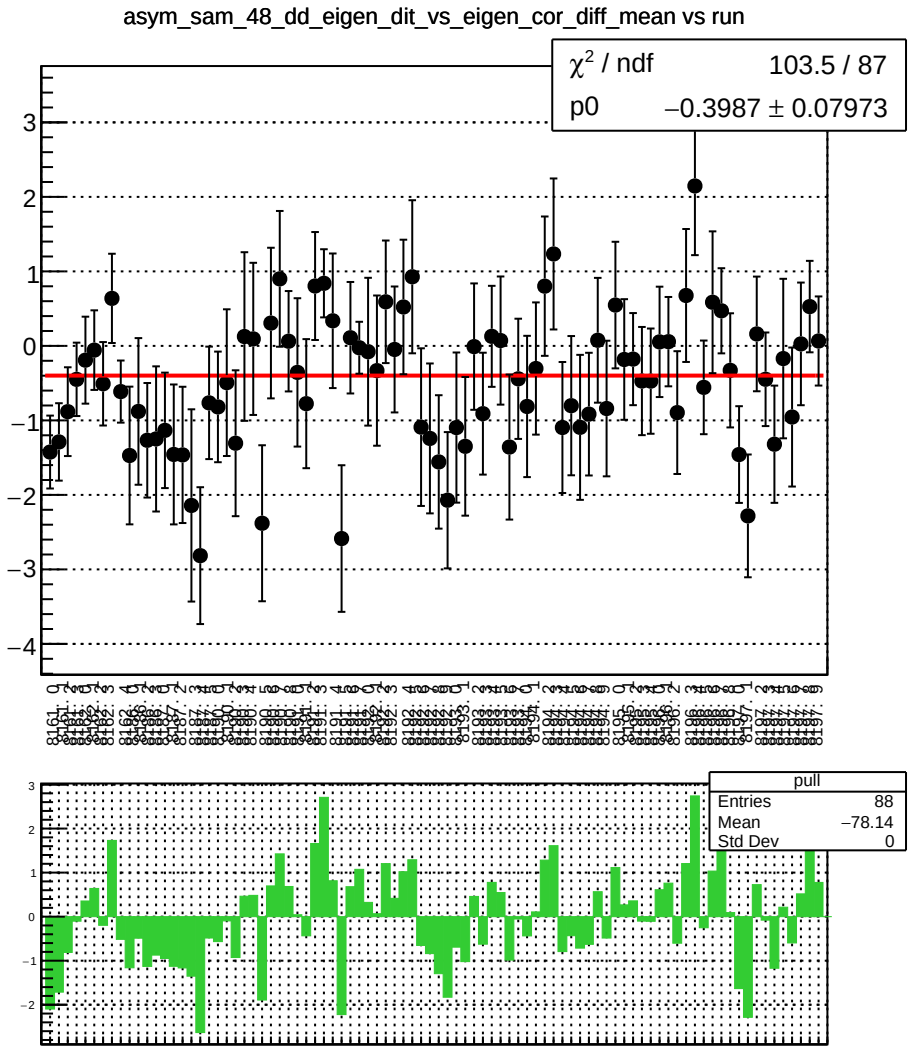

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 87
p0 1.237e−05 ± 2.274e−06
pull
Entries 88
Mean −175.5
Std Dev 0
pull1D
Entries 88
Mean 0.0174
Std Dev 1.081

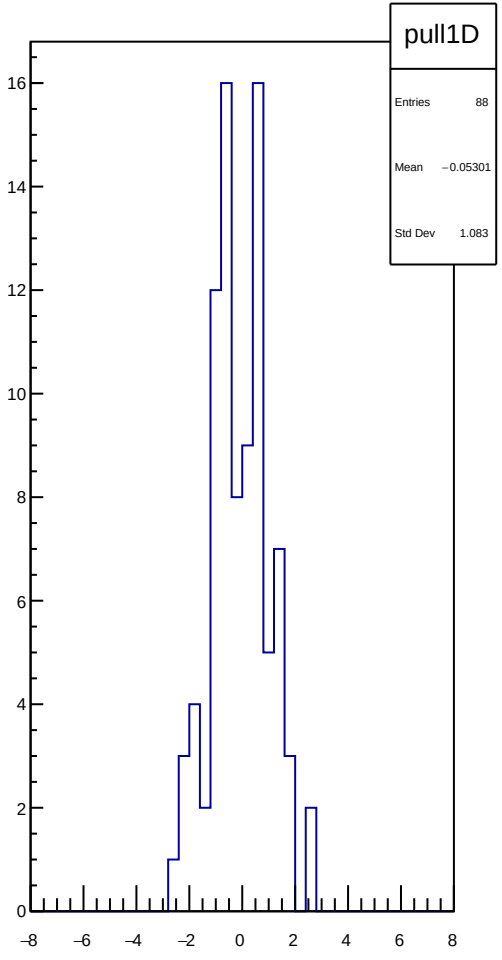

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.608e+04 / 87
p0 0.002066 ± 1.608e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

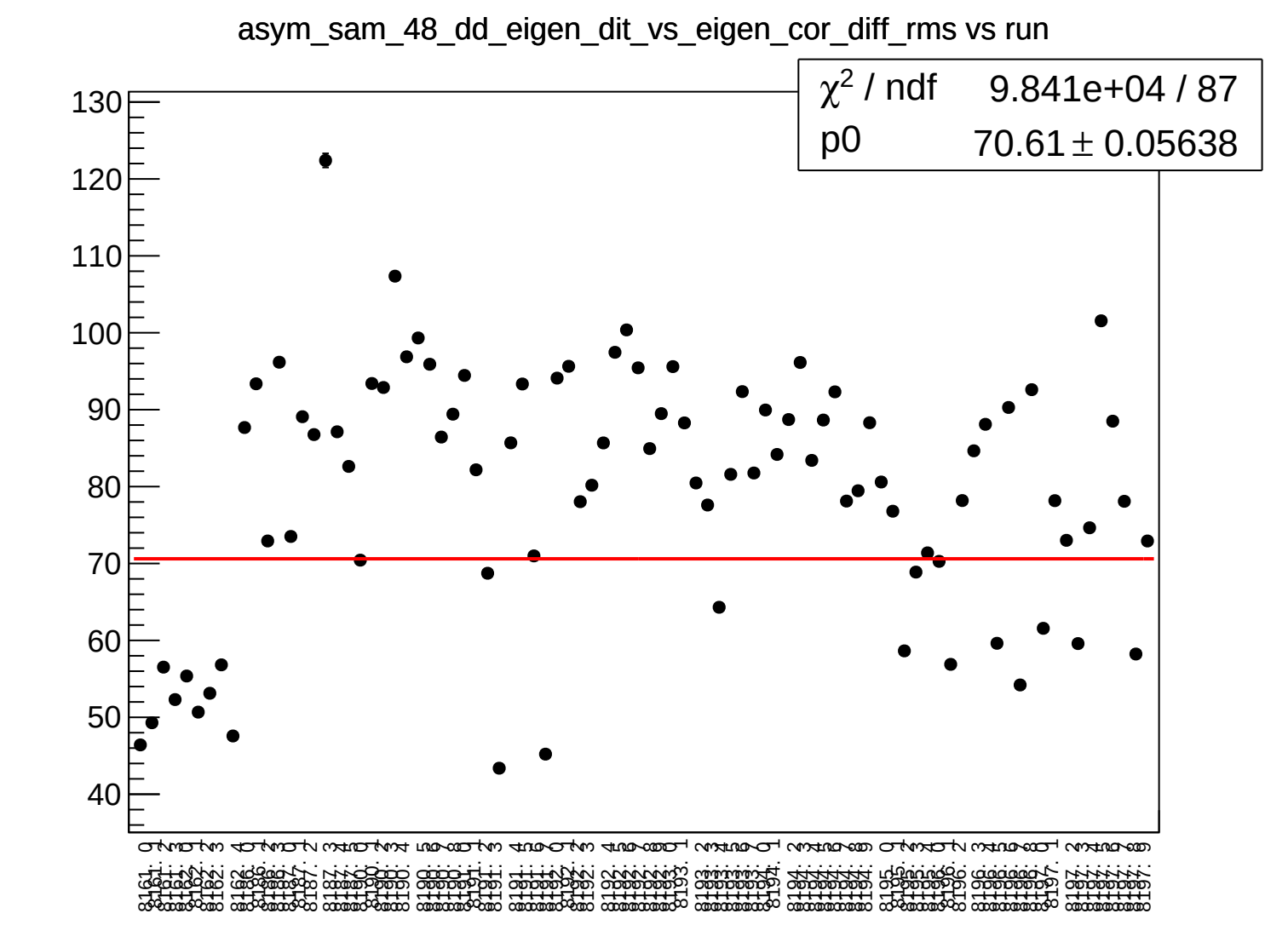

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 87
p0 −0.3987 ± 0.07973
pull
Entries 88
Mean −78.14
Std Dev 0

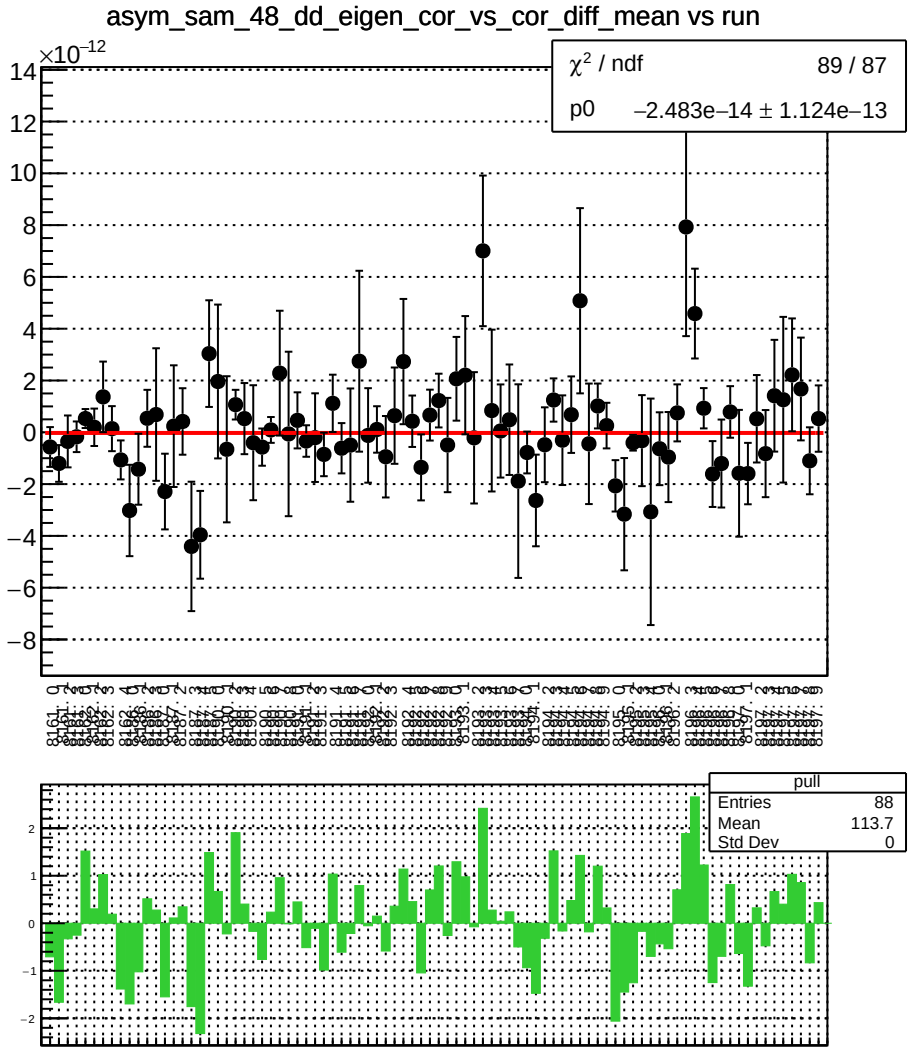

pull1D
Entries 88
Mean −0.05301
Std Dev 1.083

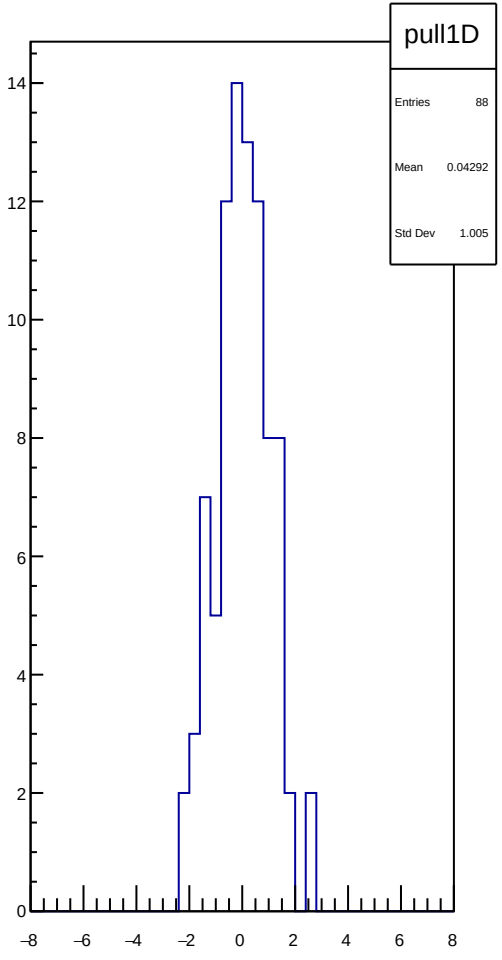

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.841e+04 / 87
p0 70.61 ± 0.05638
130
120
110
100
90
80
70
60
50
40

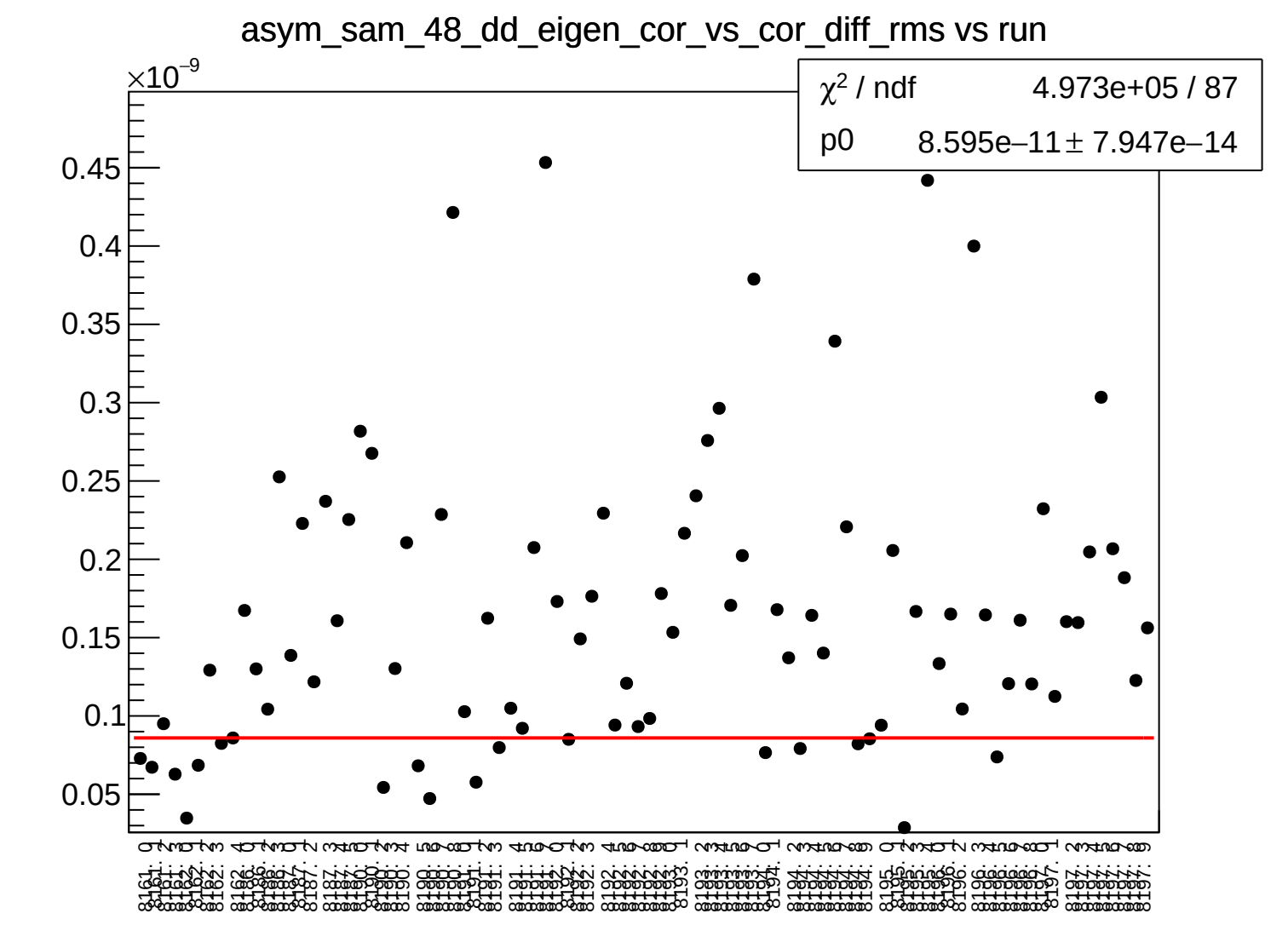

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 87
p0 −0.3987 ± 0.07973
pull
Entries 88
Mean −78.14
Std Dev 0

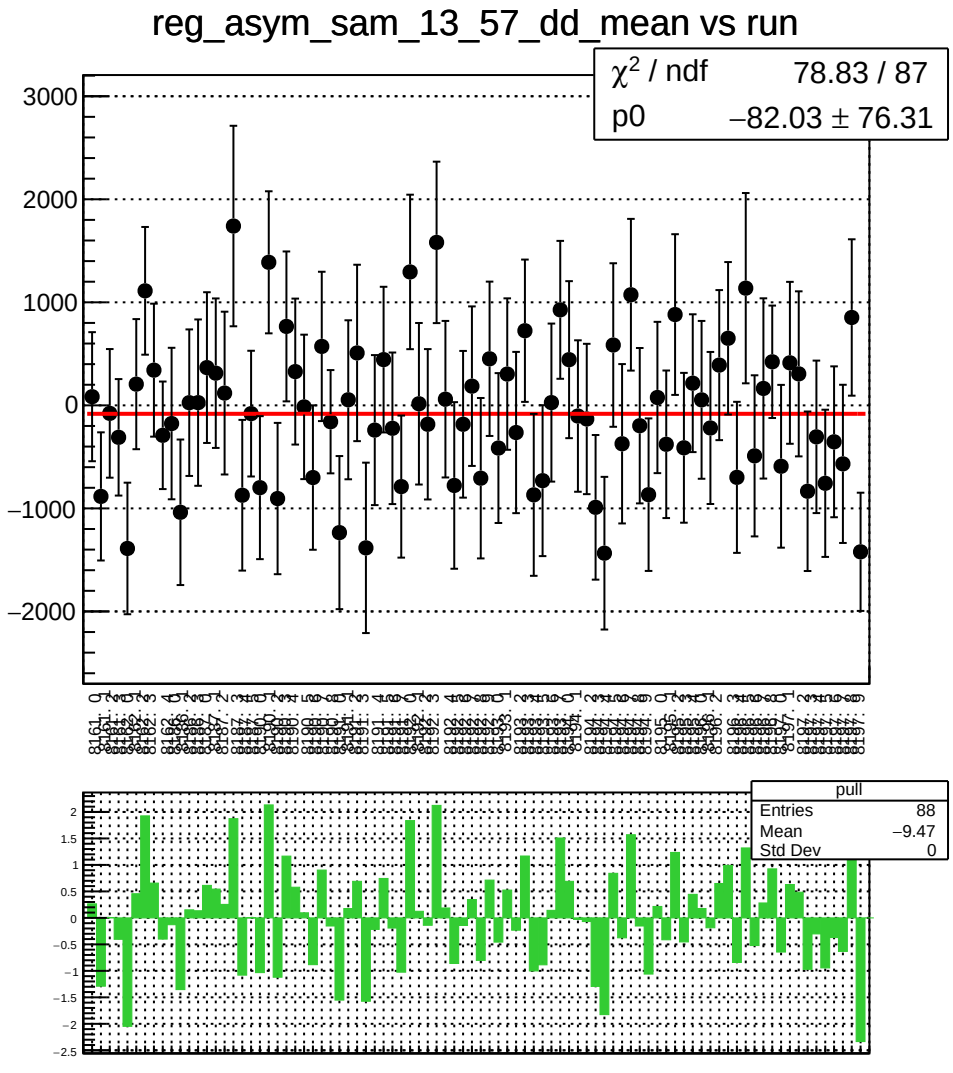

pull1D
Entries 88
Mean −0.05301
Std Dev 1.083

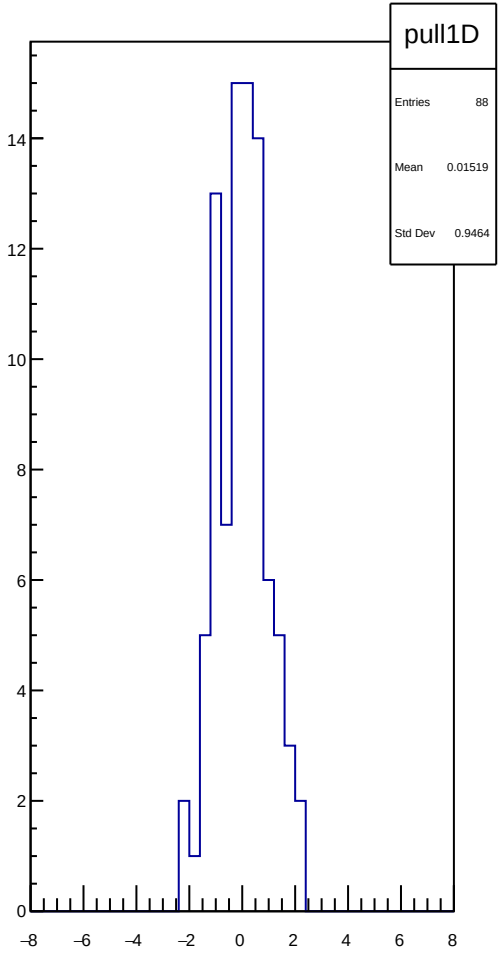

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.841e+04 / 87
p0 70.61 ± 0.05638
130
120
110
100
90
80
70
60
50
40

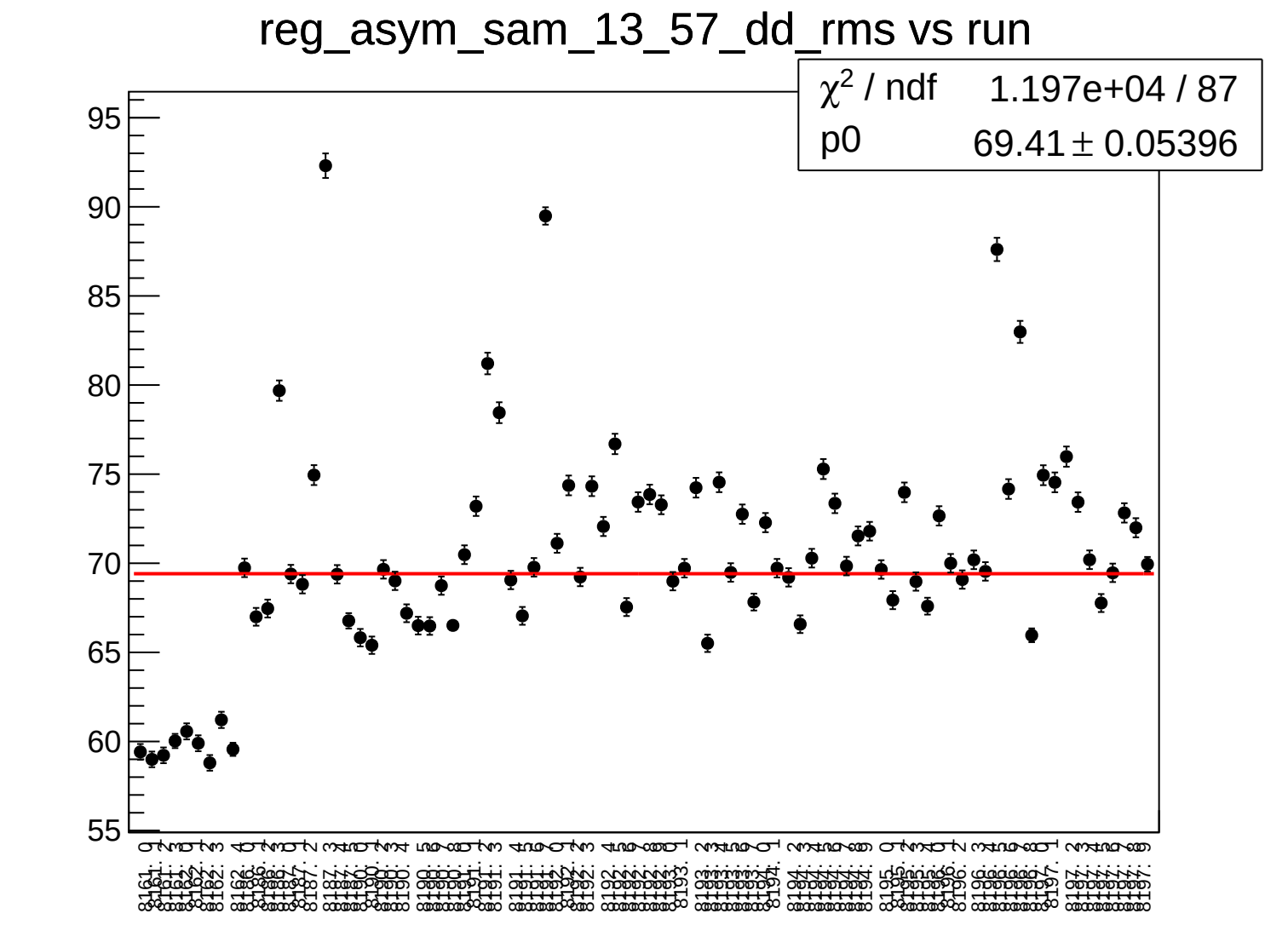

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89 / 87
p0 −2.483e−14 ± 1.124e−13
pull
Entries 88
Mean 113.7
Std Dev 0

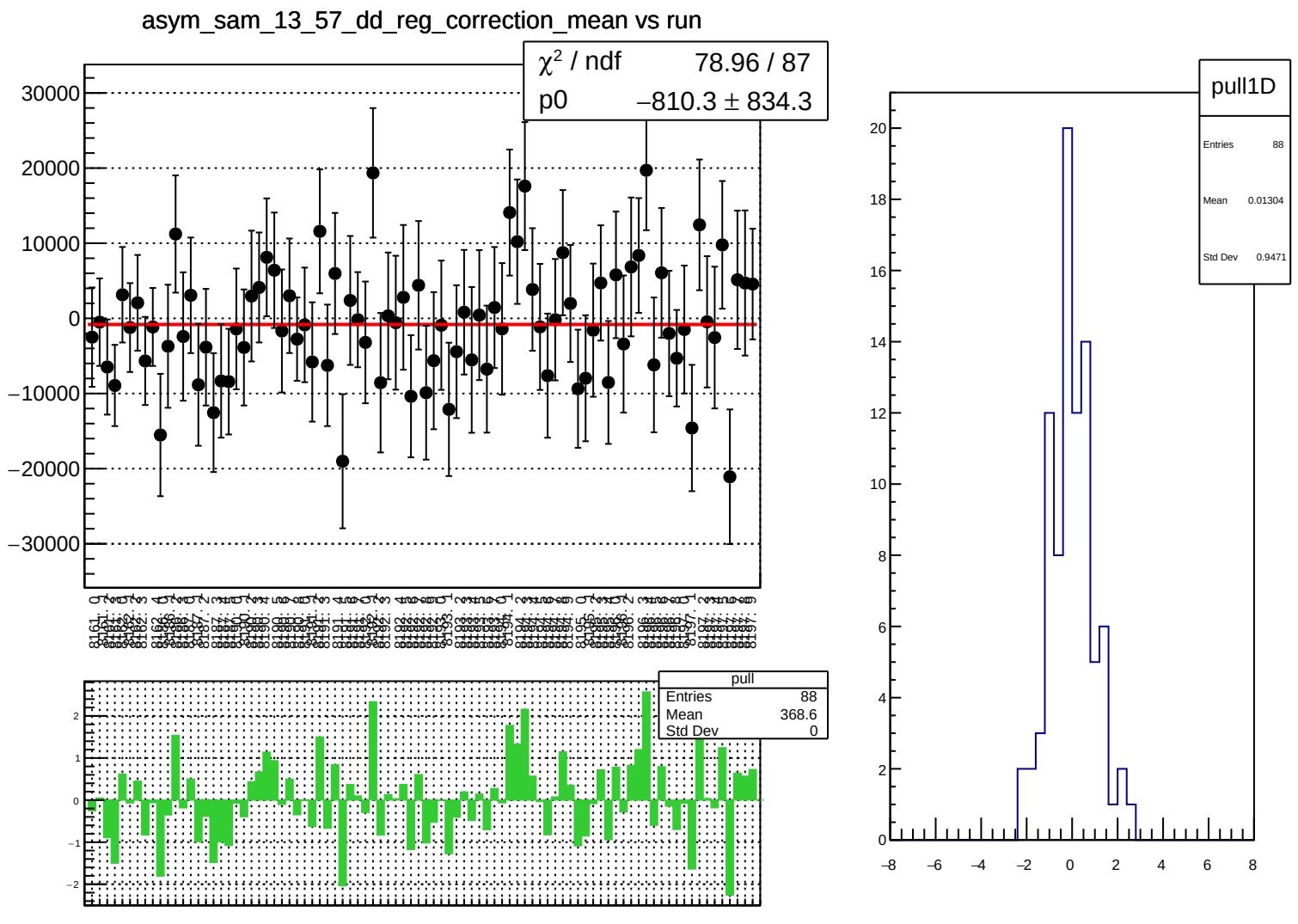

pull1D
Entries 88
Mean 0.04292
Std Dev 1.005

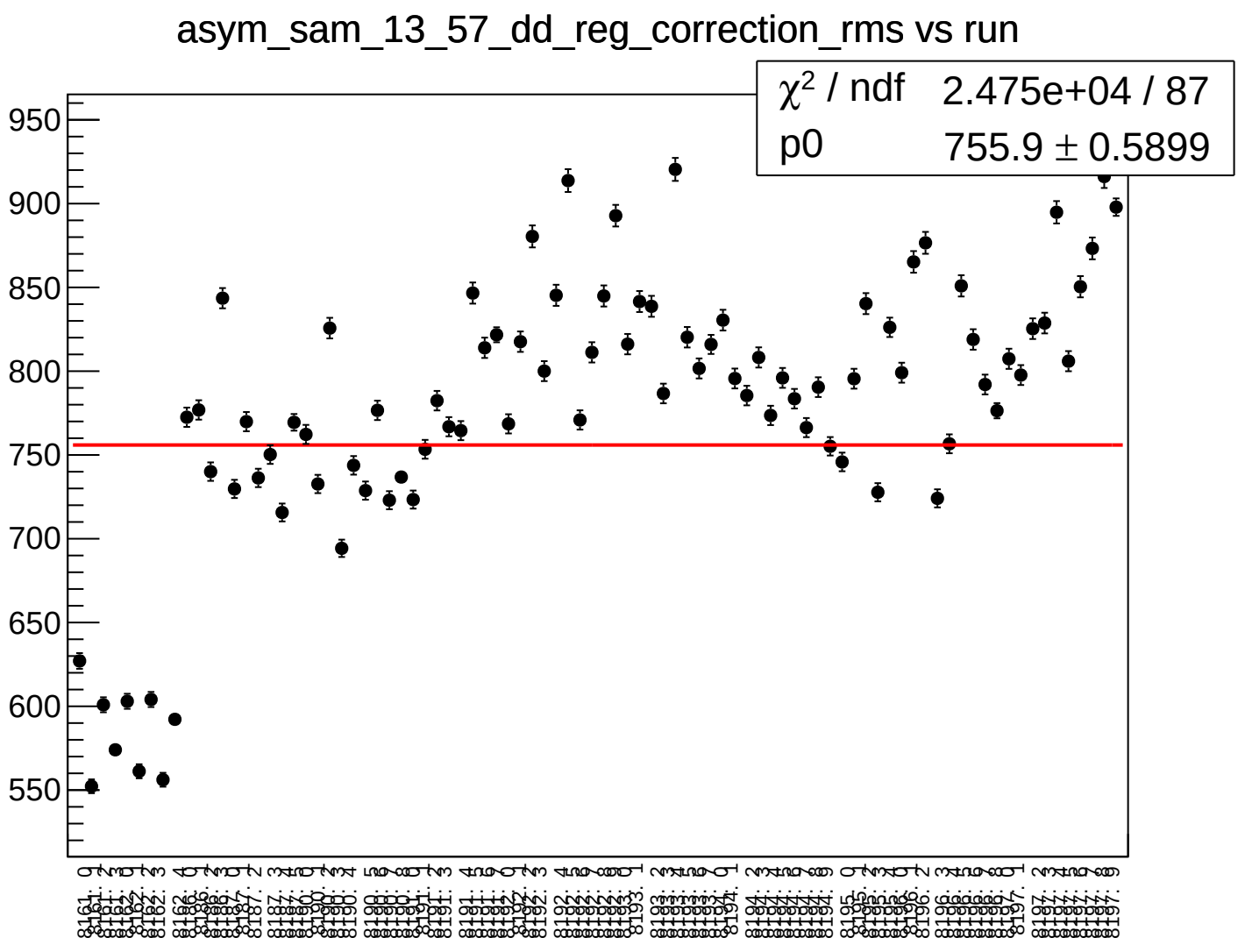

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.973e+05 / 87
p0 8.595e−11 ± 7.947e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

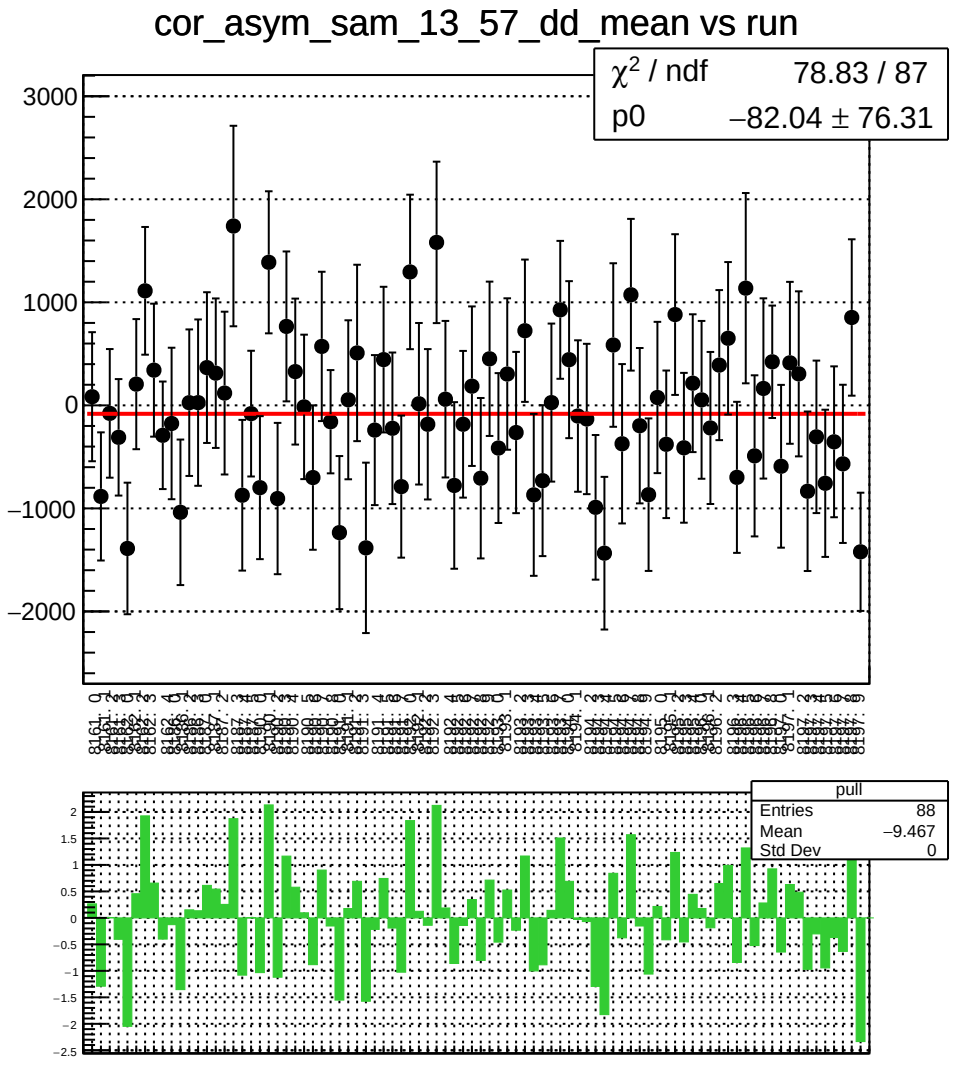

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 78.83 / 87
p0 −82.03 ± 76.31
pull
Entries 88
Mean −9.47
Std Dev 0

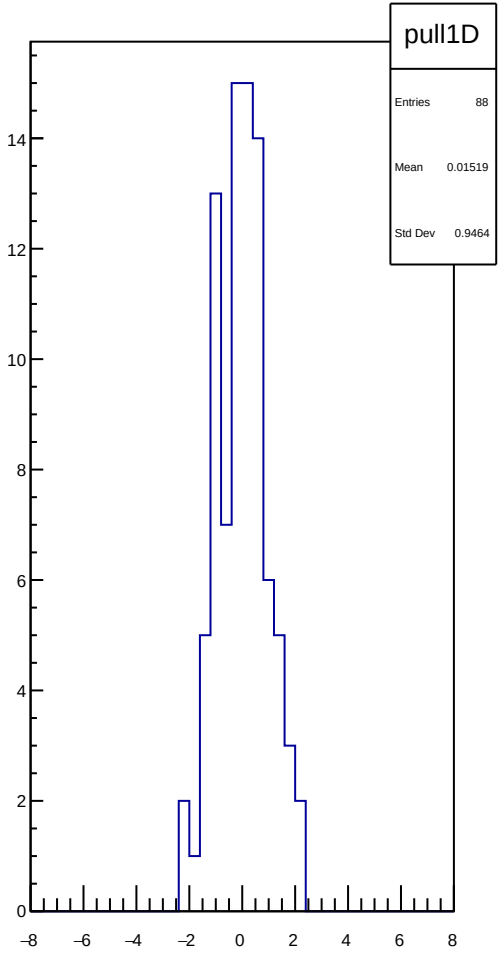

pull1D
Entries 88
Mean 0.01519
Std Dev 0.9464

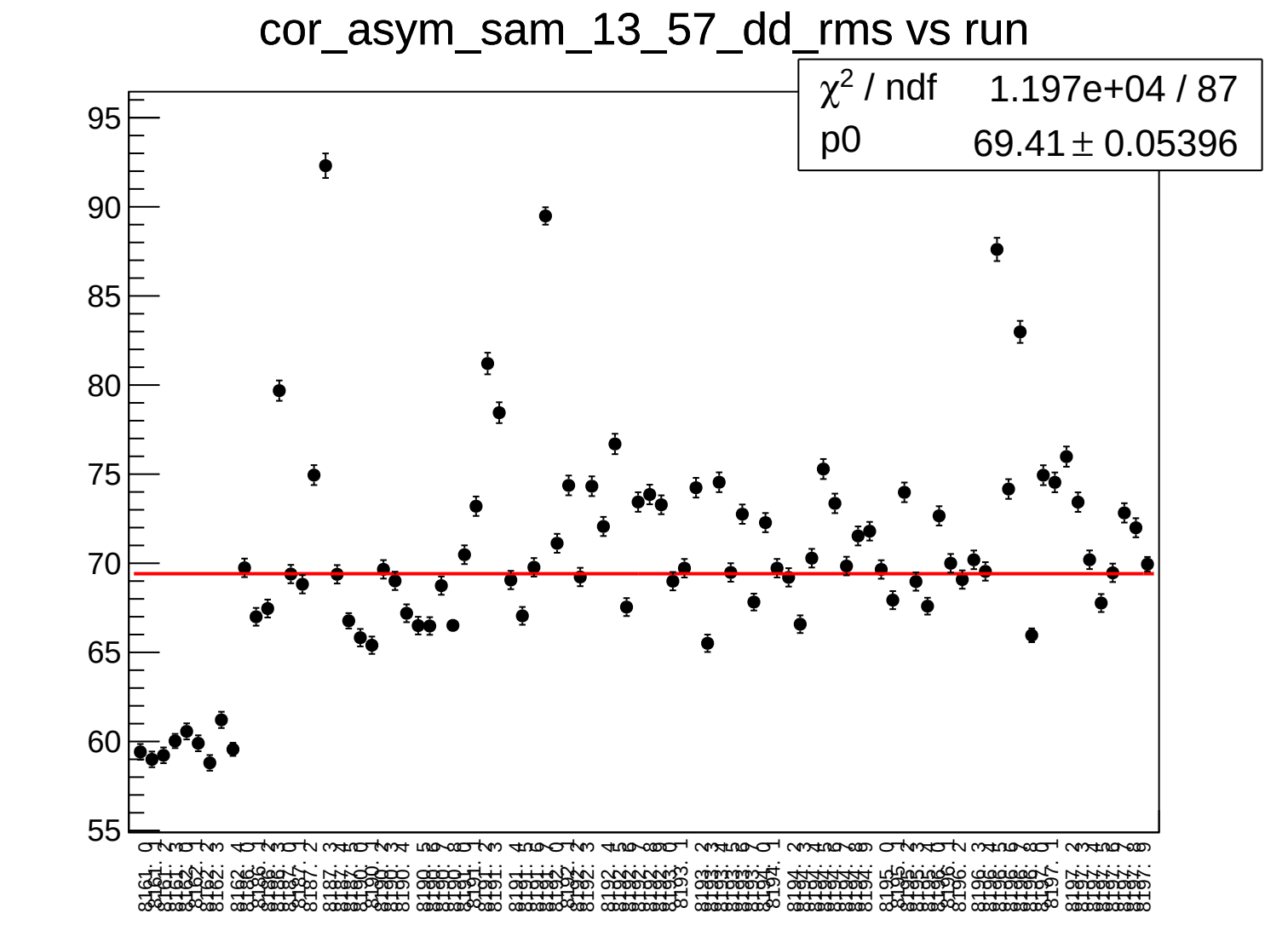

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.197e+04 / 87
p0 69.41 ± 0.05396
95
90
85
80
75
70
65
60
55

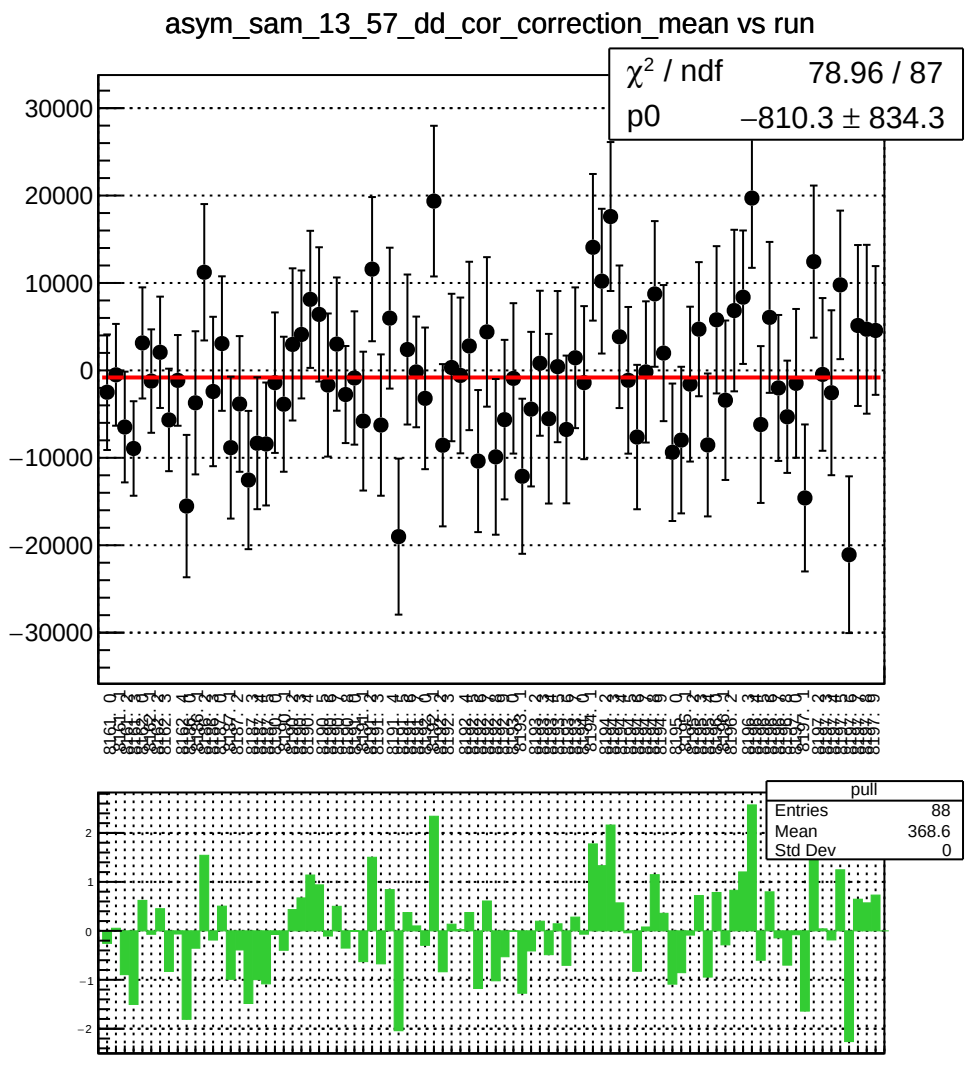

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 78.96 / 87
p0 −810.3 ± 834.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 368.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01304
Std Dev 0.9471
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

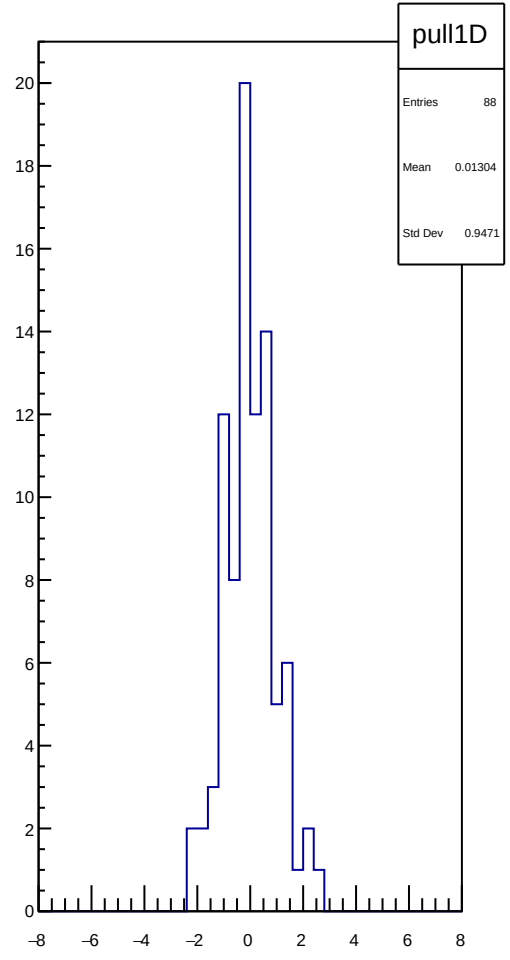

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2.475e+04 / 87
p0 755.9 ± 0.5899
950
900
850
800
750
700
650
600
550

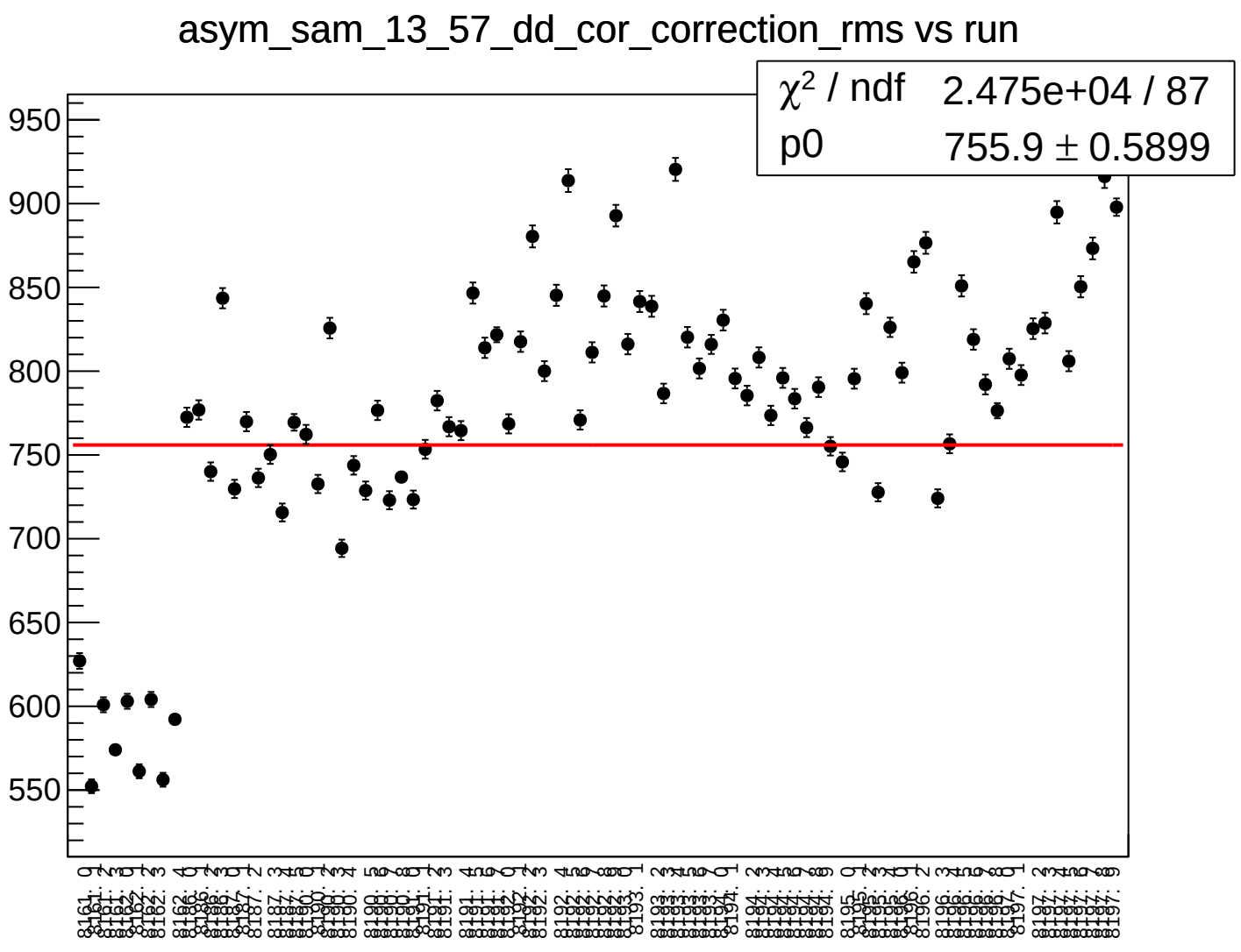

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 78.83 / 87
p0 –82.04 ± 76.31
3000
2000
1000
0
–1000
–2000
pull
Entries 88
Mean –9.467
Std Dev 0
2
1.5
1
0.5
0
–0.5
–1
–1.5
–2
–2.5

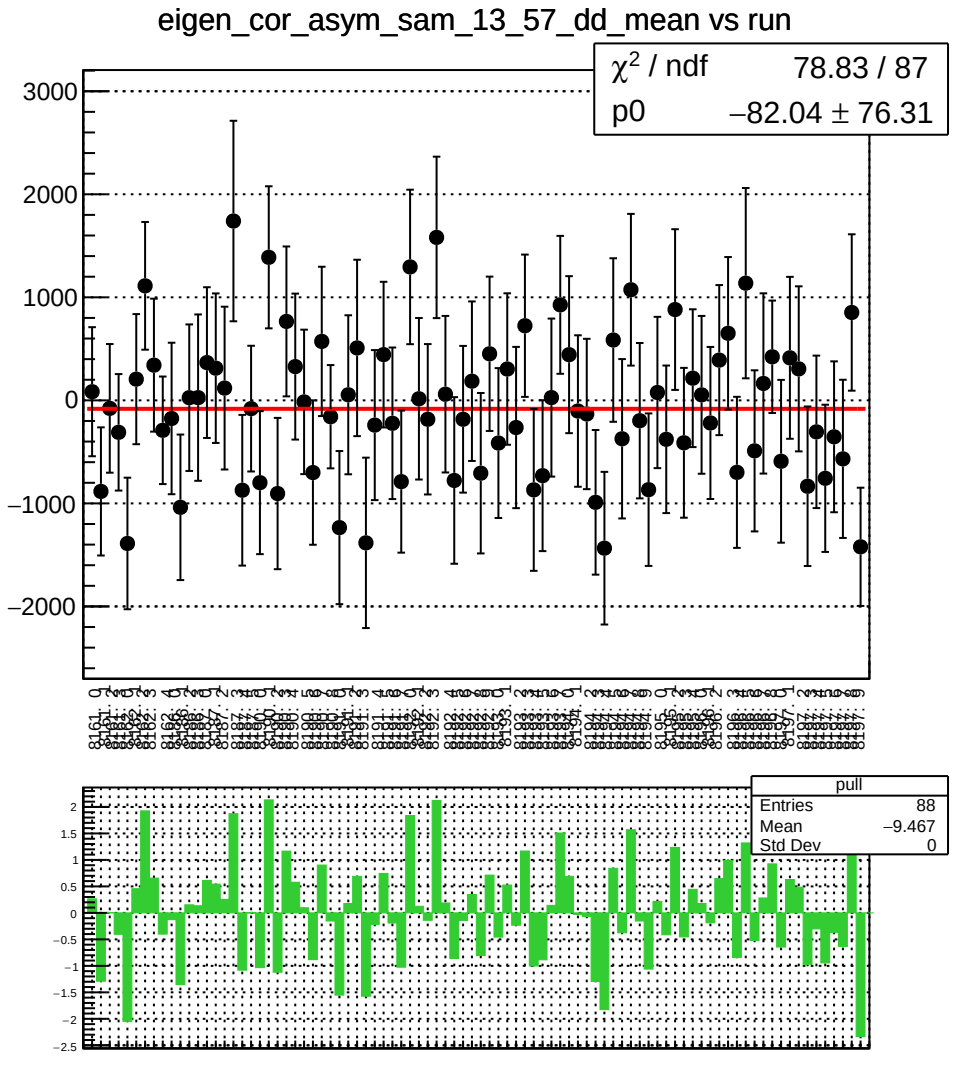

pull1D
Entries 88
Mean 0.01519
Std Dev 0.9464
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

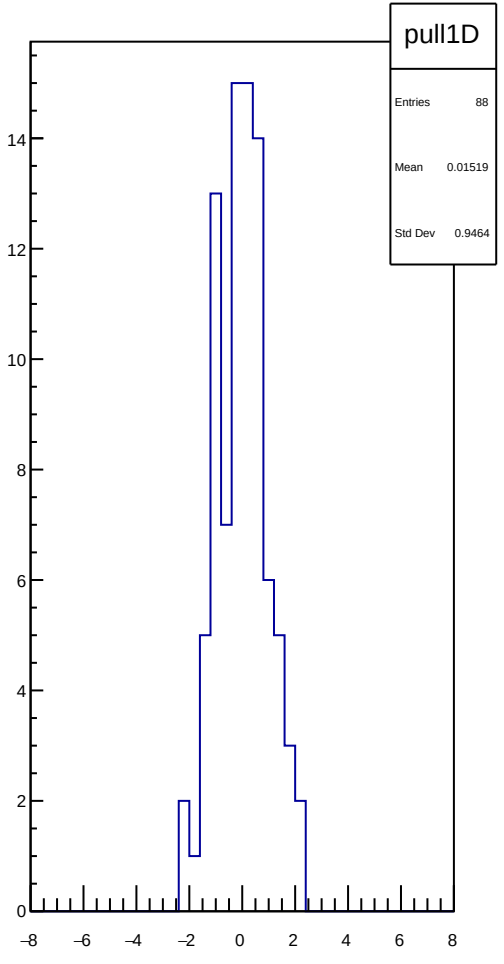

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.197e+04 / 87
p0 69.41 ± 0.05396
95
90
85
80
75
70
65
60
55

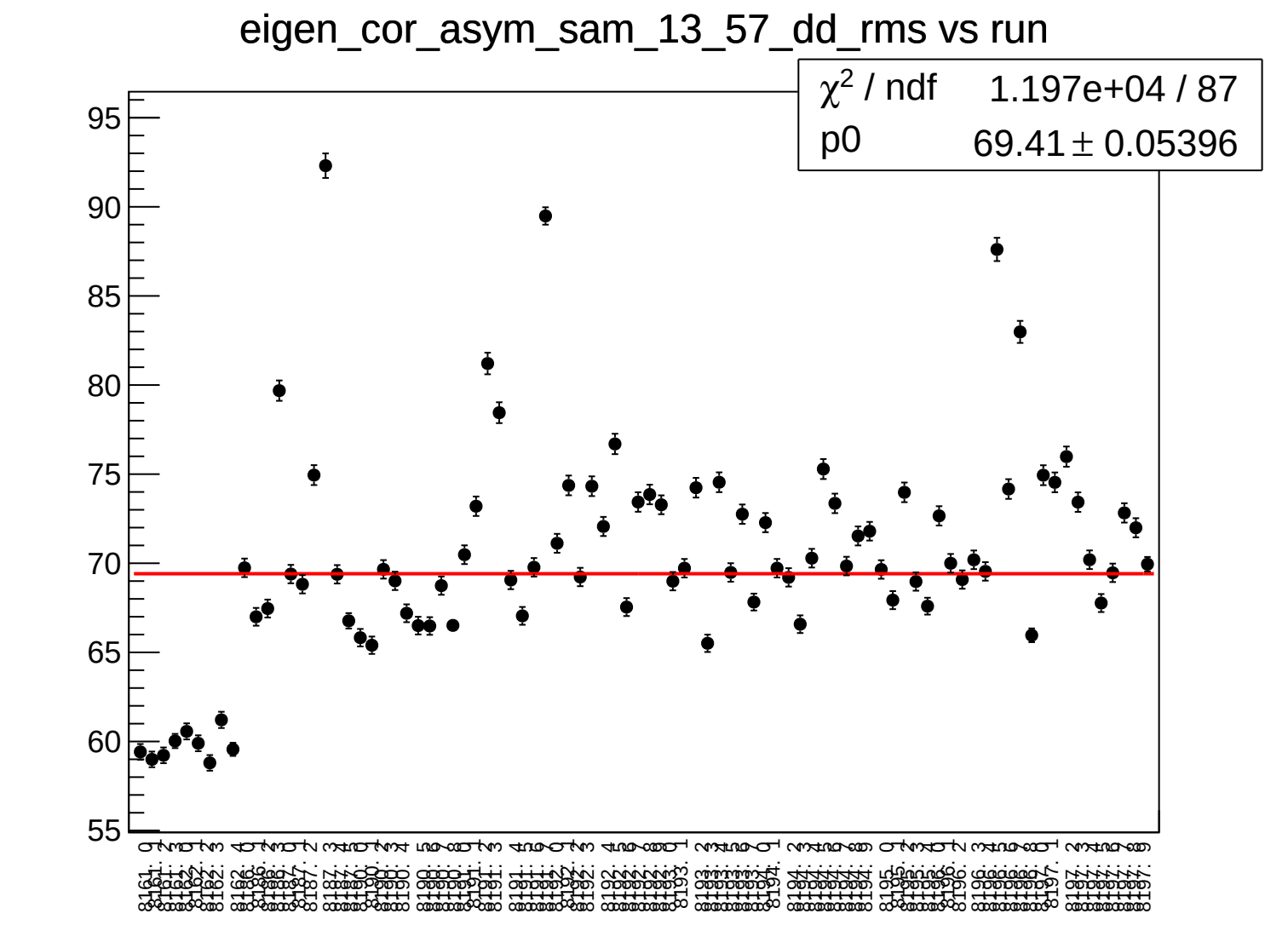

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 78.96 / 87
p0 −810.3 ± 834.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 368.6
Std Dev 0
2
1
0
−1
−2

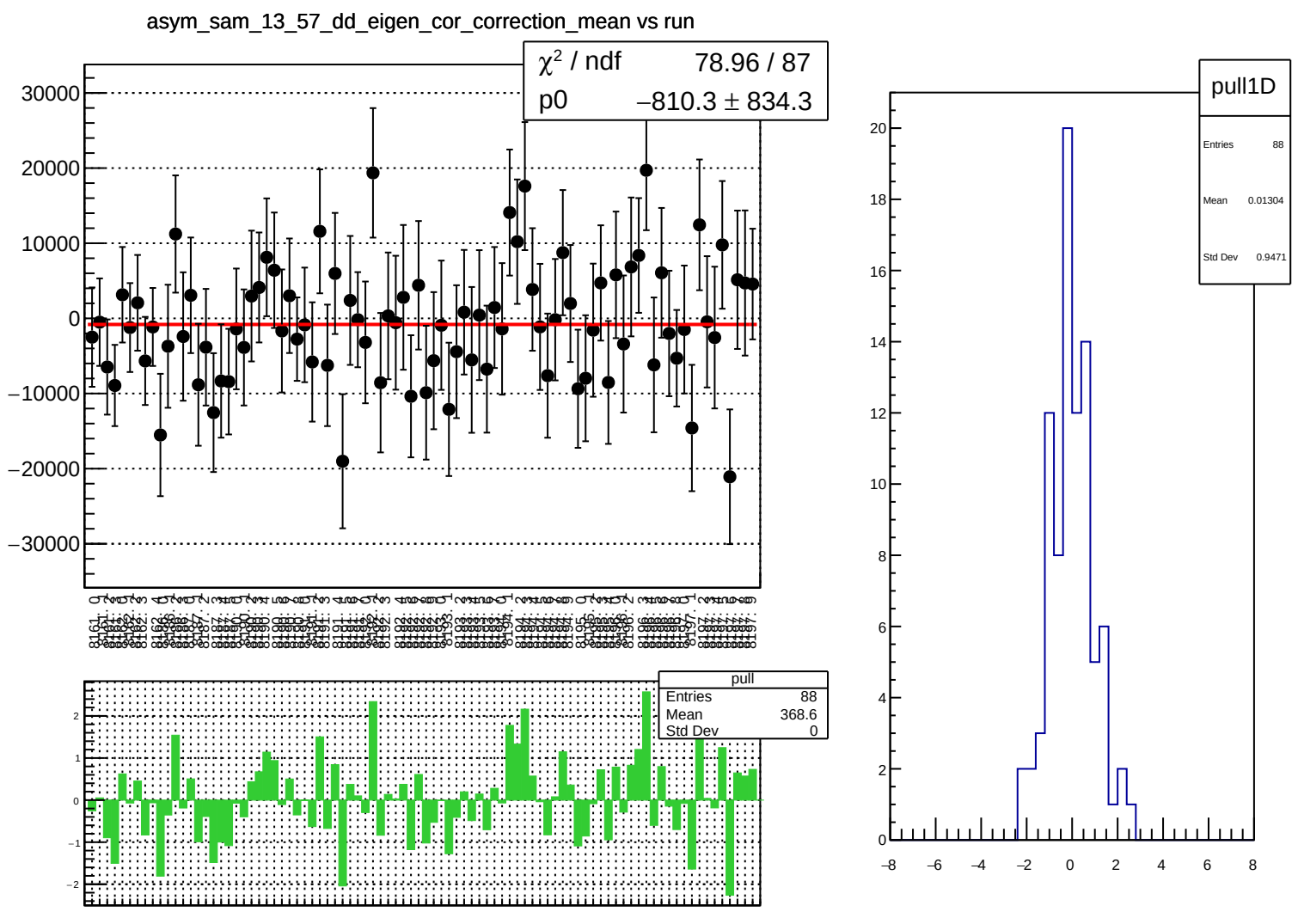

pull1D
Entries 88
Mean 0.01304
Std Dev 0.9471
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

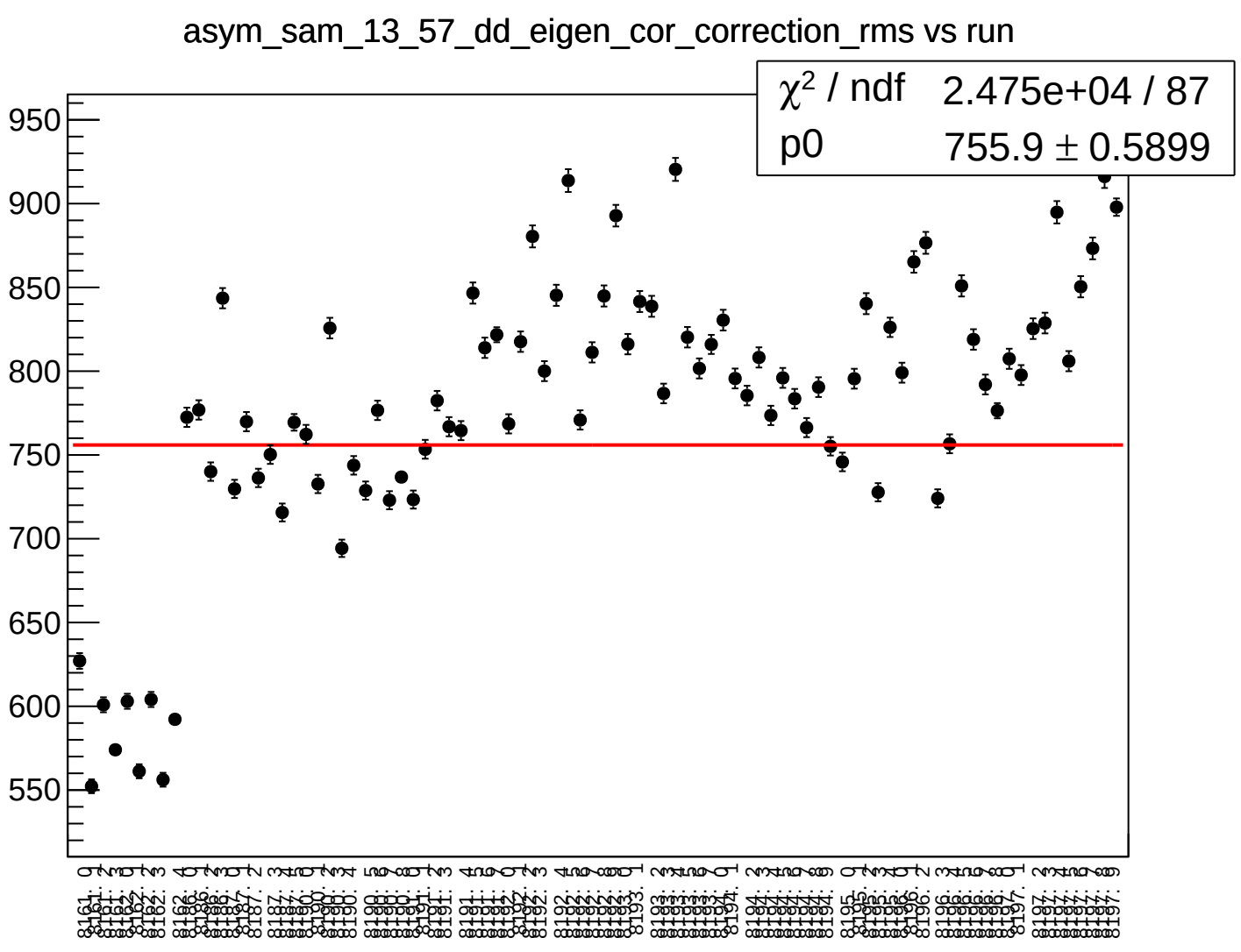

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2.475e+04 / 87
p0 755.9 ± 0.5899
950
900
850
800
750
700
650
600
550

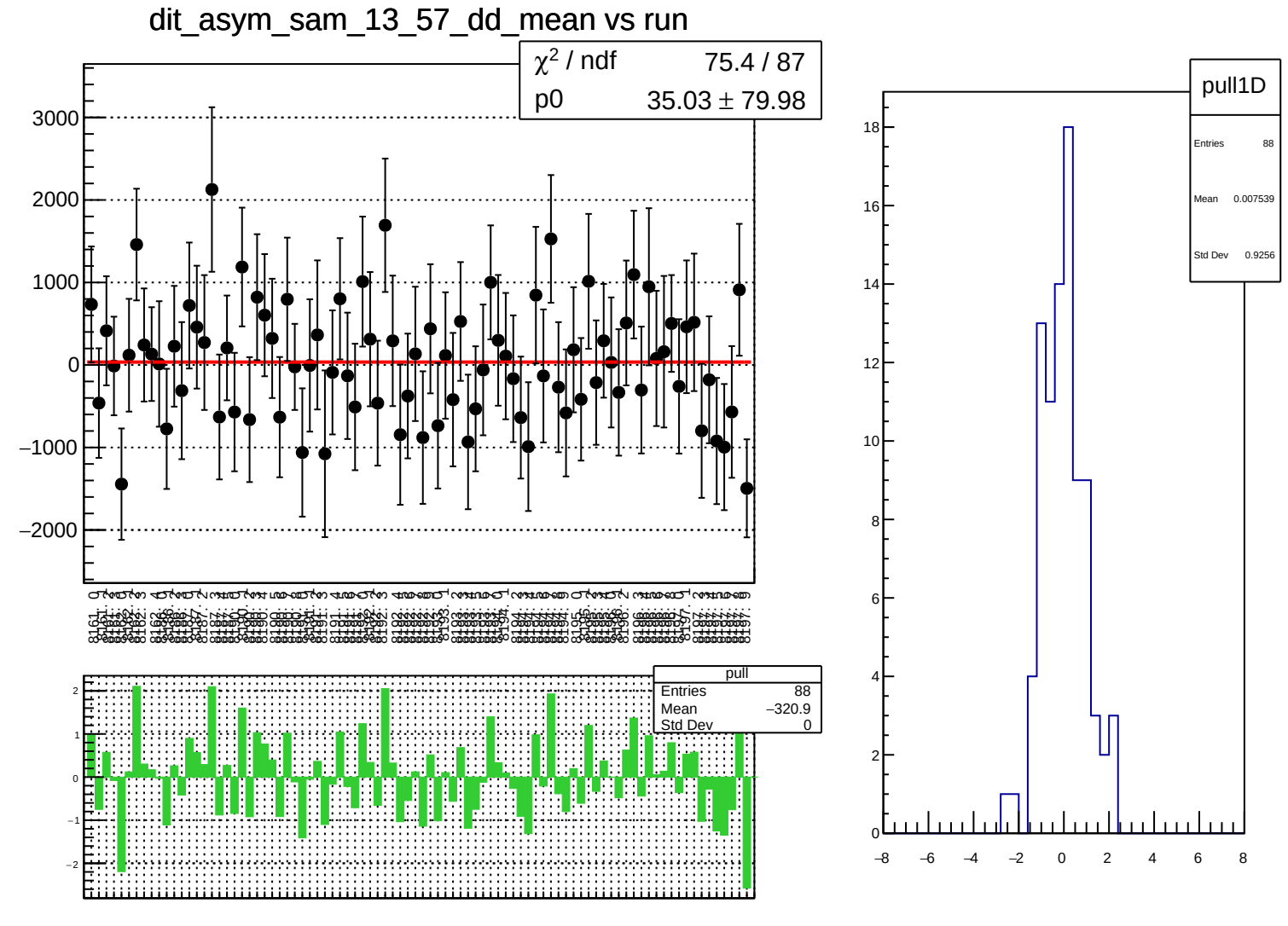

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 78.83 / 87
p0 −82.04 ± 76.31
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −9.467
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

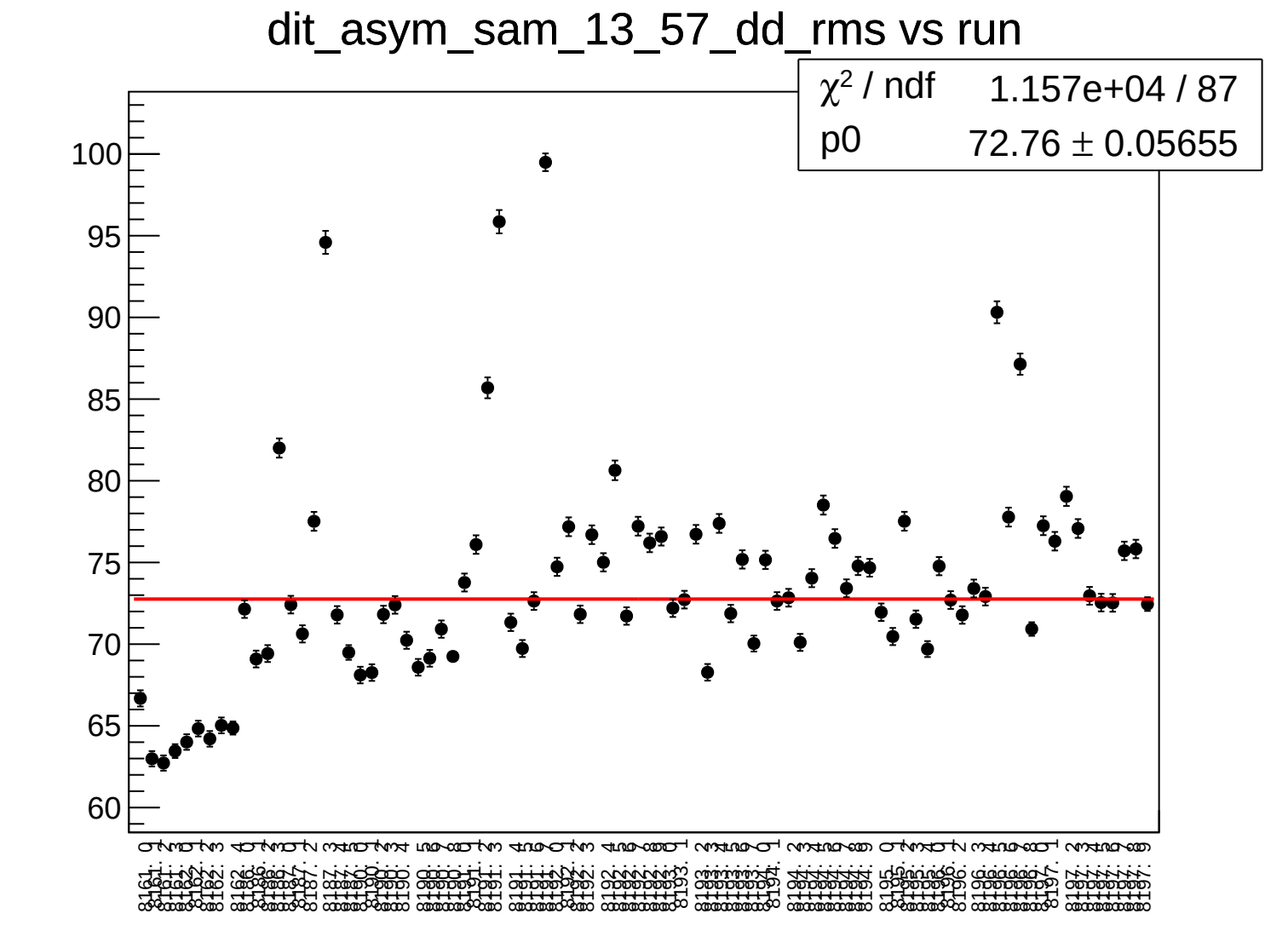

pull1D
Entries 88
Mean 0.01519
Std Dev 0.9464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

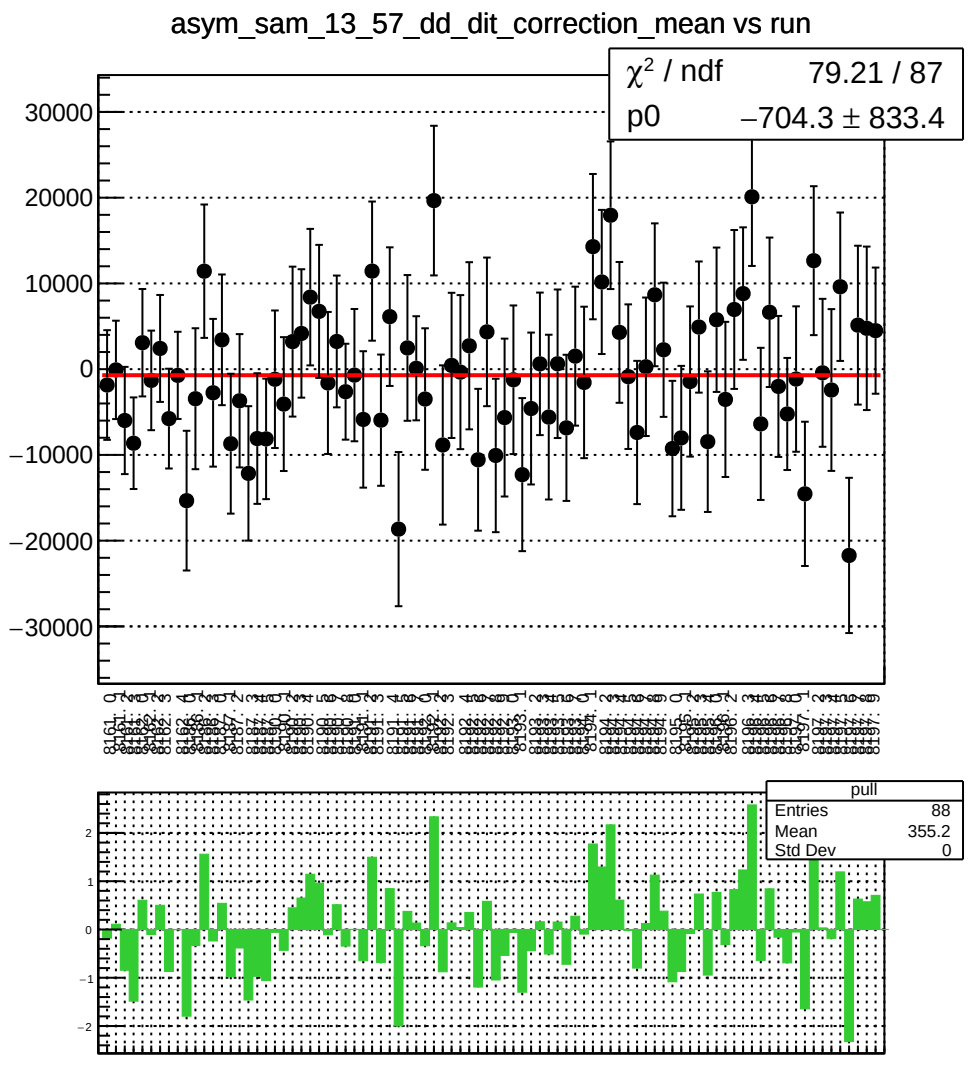

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.197e+04 / 87
p0 69.41 ± 0.05396
95
90
85
80
75
70
65
60
55

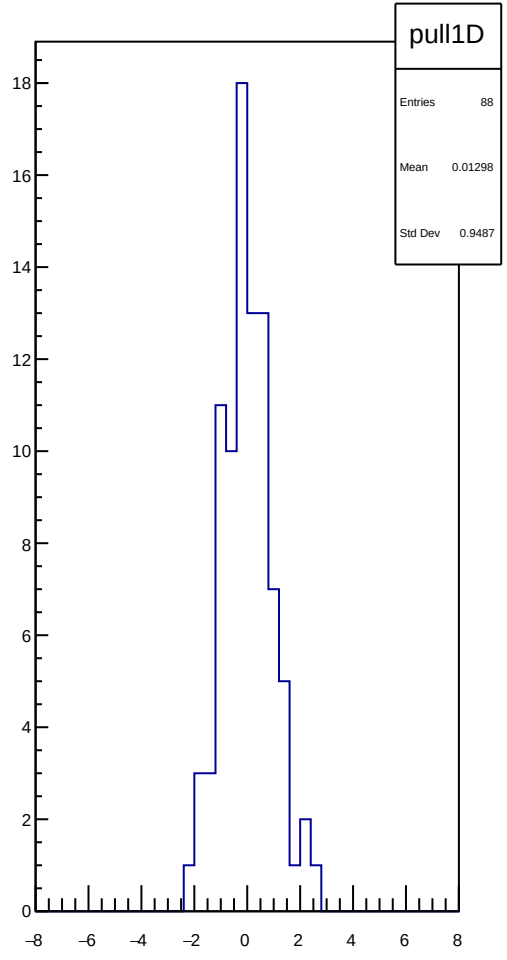

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.96 / 87
p0 −810.3 ± 834.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 368.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01304
Std Dev 0.9471
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

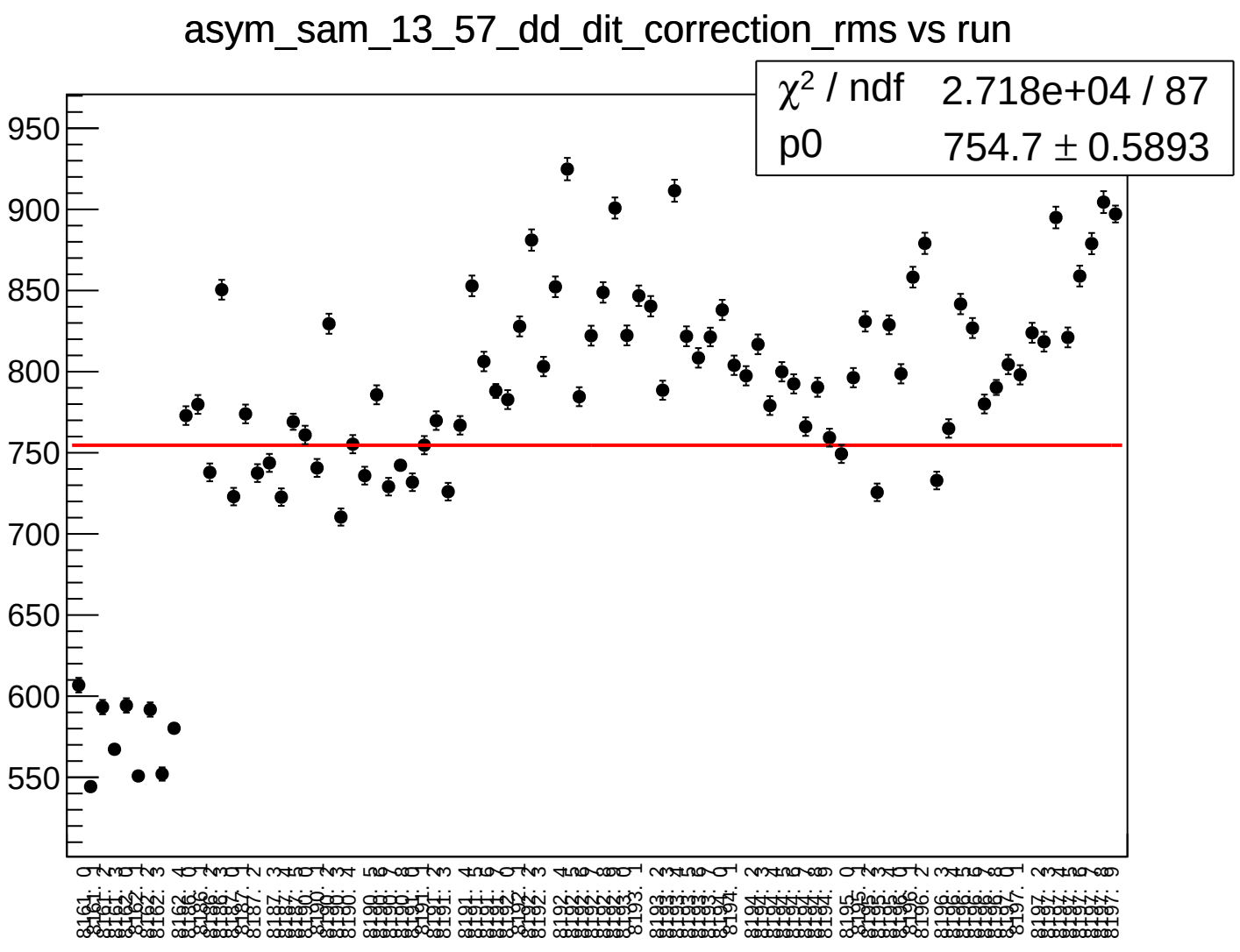

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.475e+04 / 87
p0 755.9 ± 0.5899
950
900
850
800
750
700
650
600
550

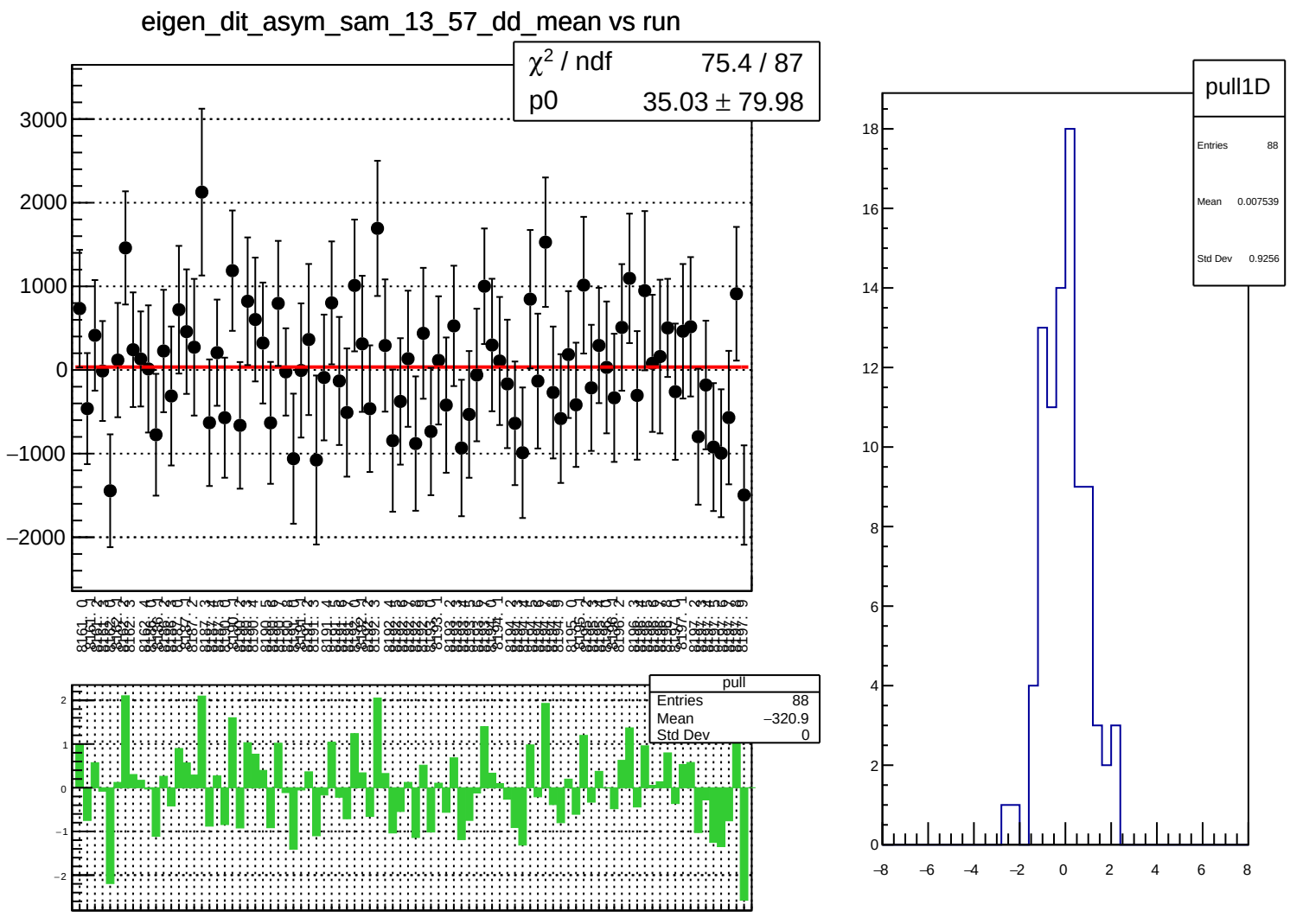

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 75.4 / 87
p0 35.03 ± 79.98
pull
Entries 88
Mean −320.9
Std Dev 0
pull1D
Entries 88
Mean 0.007539
Std Dev 0.9256

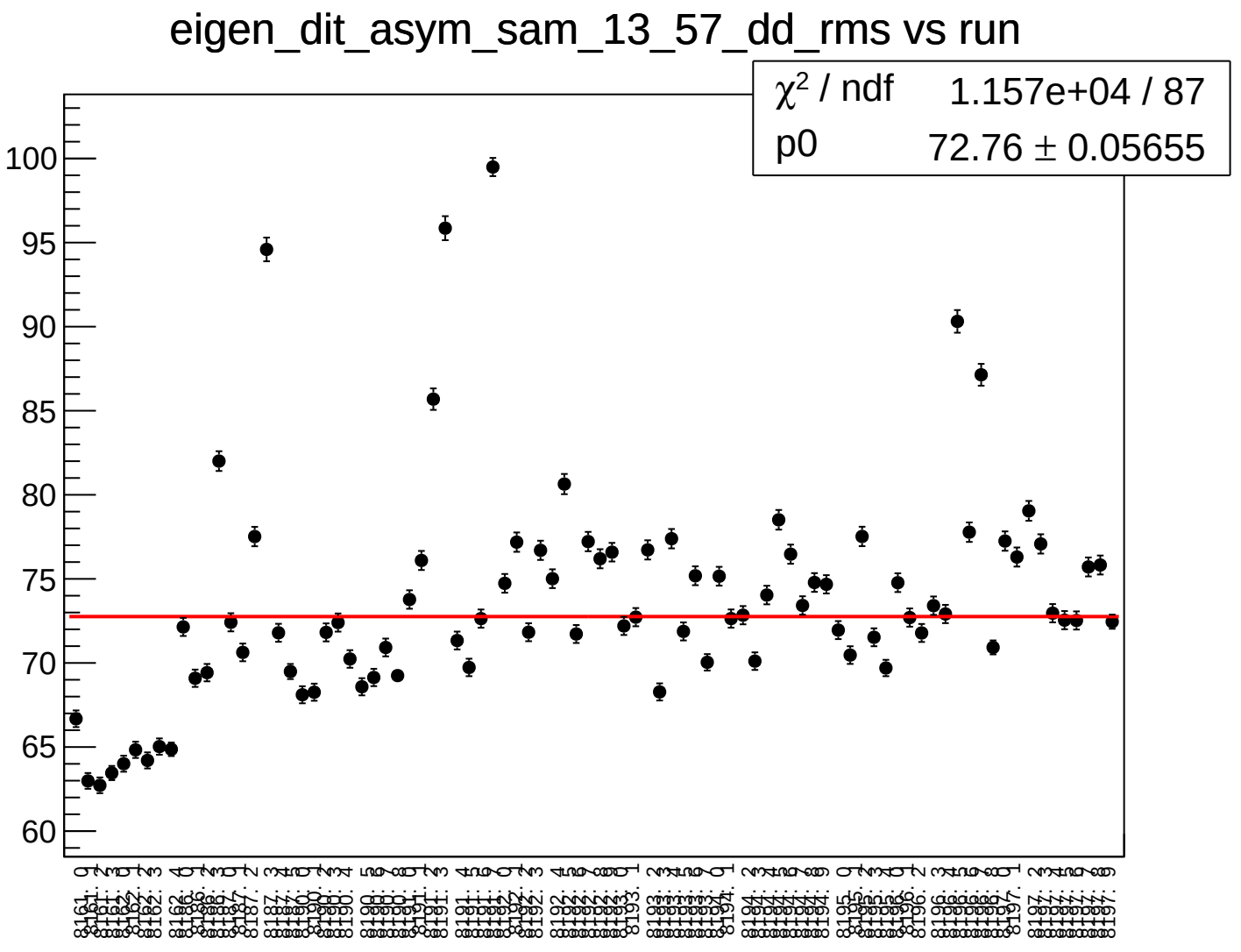

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.157e+04 / 87
p0 72.76 ± 0.05655
100
95
90
85
80
75
70
65
60

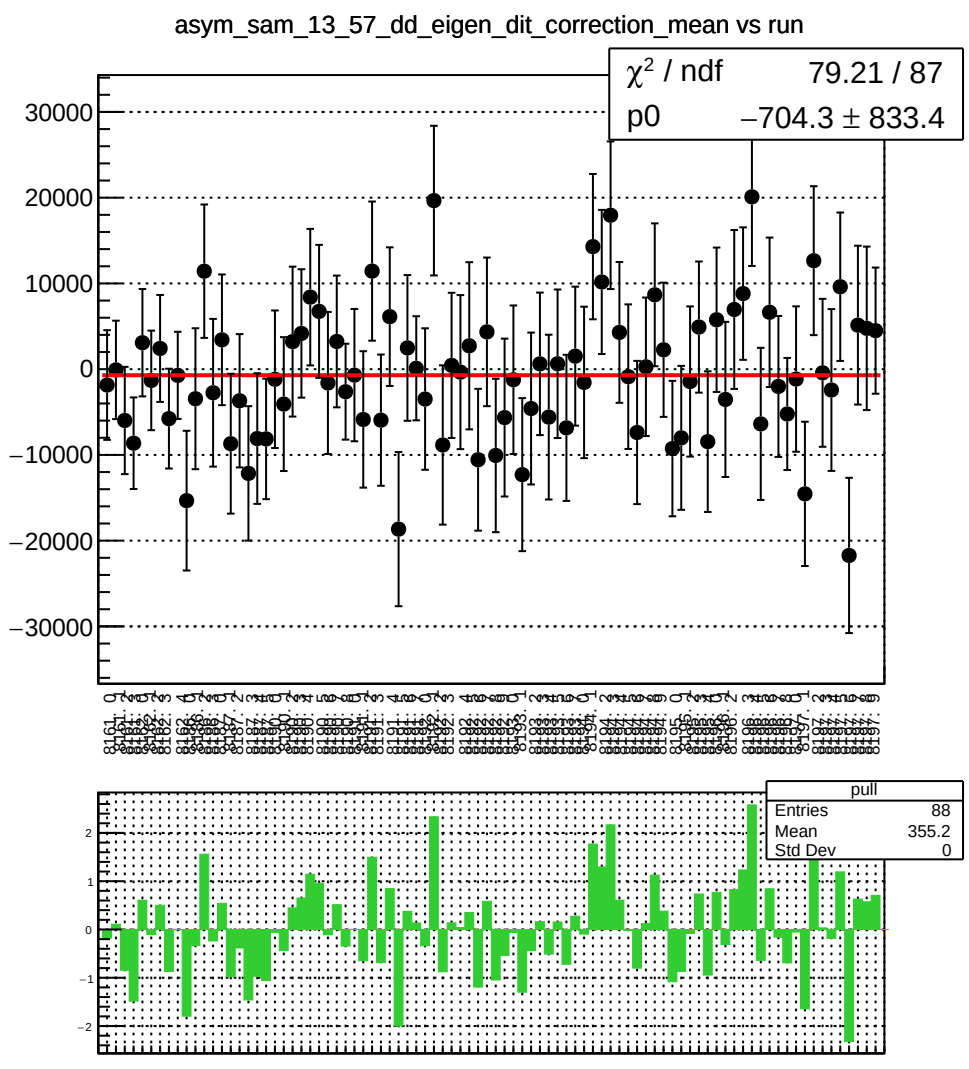

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 79.21 / 87
p0 −704.3 ± 833.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 355.2
Std Dev 0
2
1
0
−1
−2

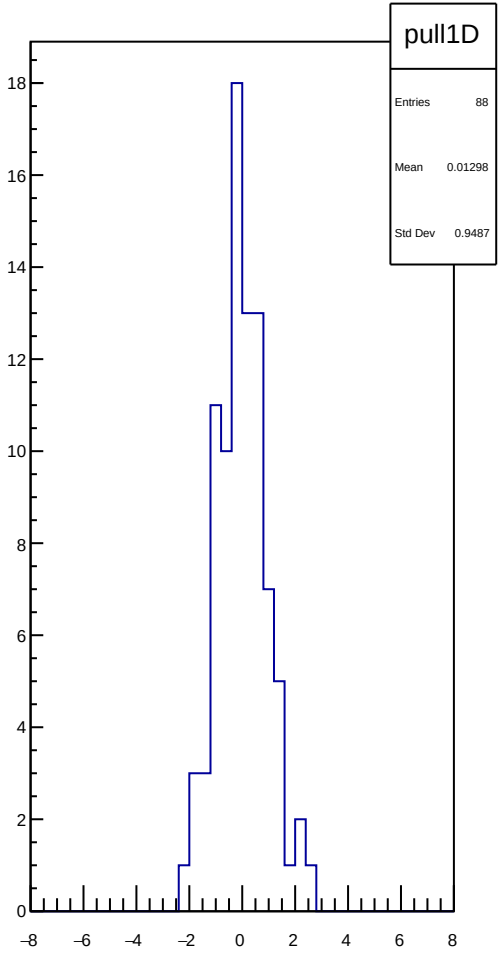

pull1D
Entries 88
Mean 0.01298
Std Dev 0.9487
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

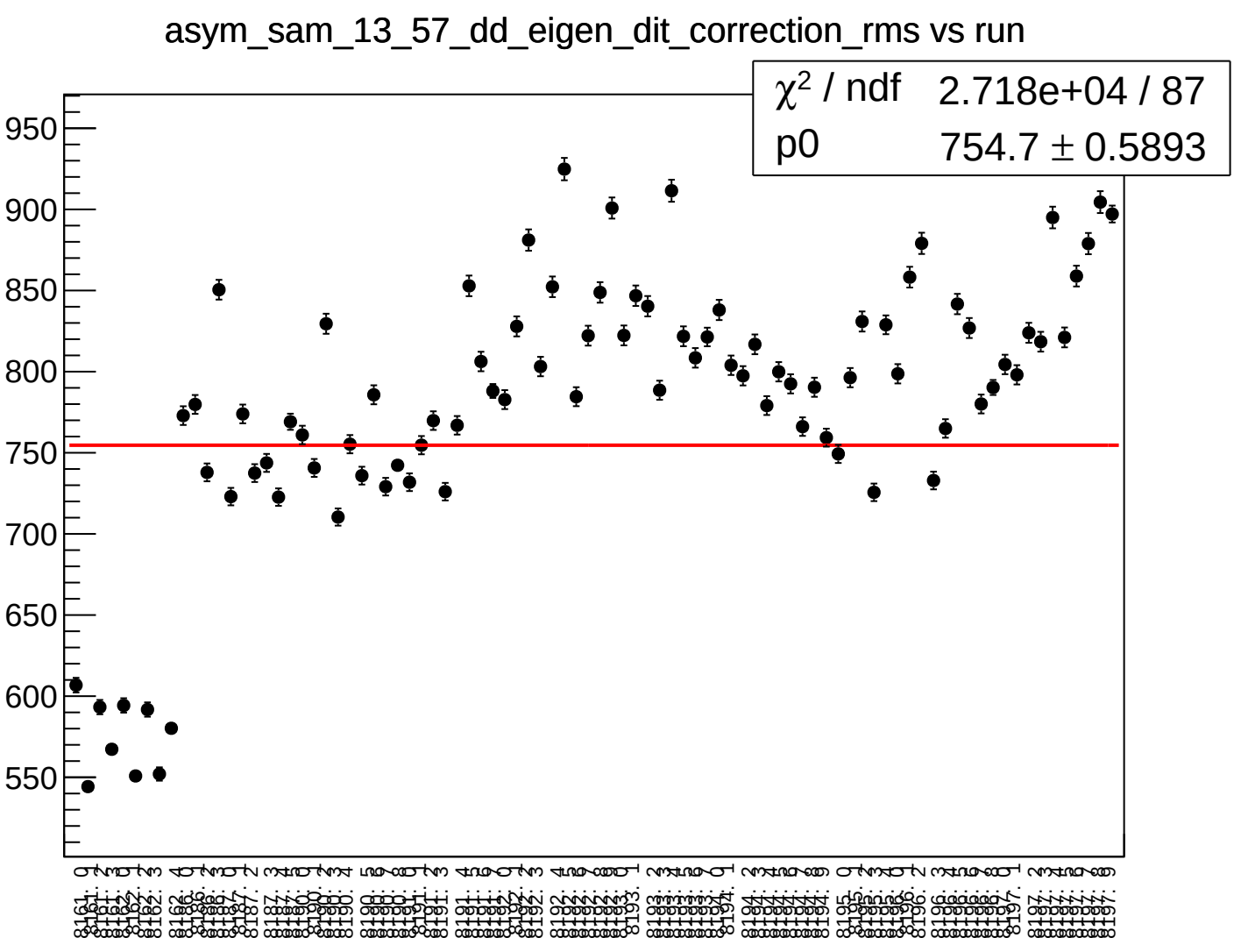

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2.718e+04 / 87
p0 754.7 ± 0.5893
950
900
850
800
750
700
650
600
550

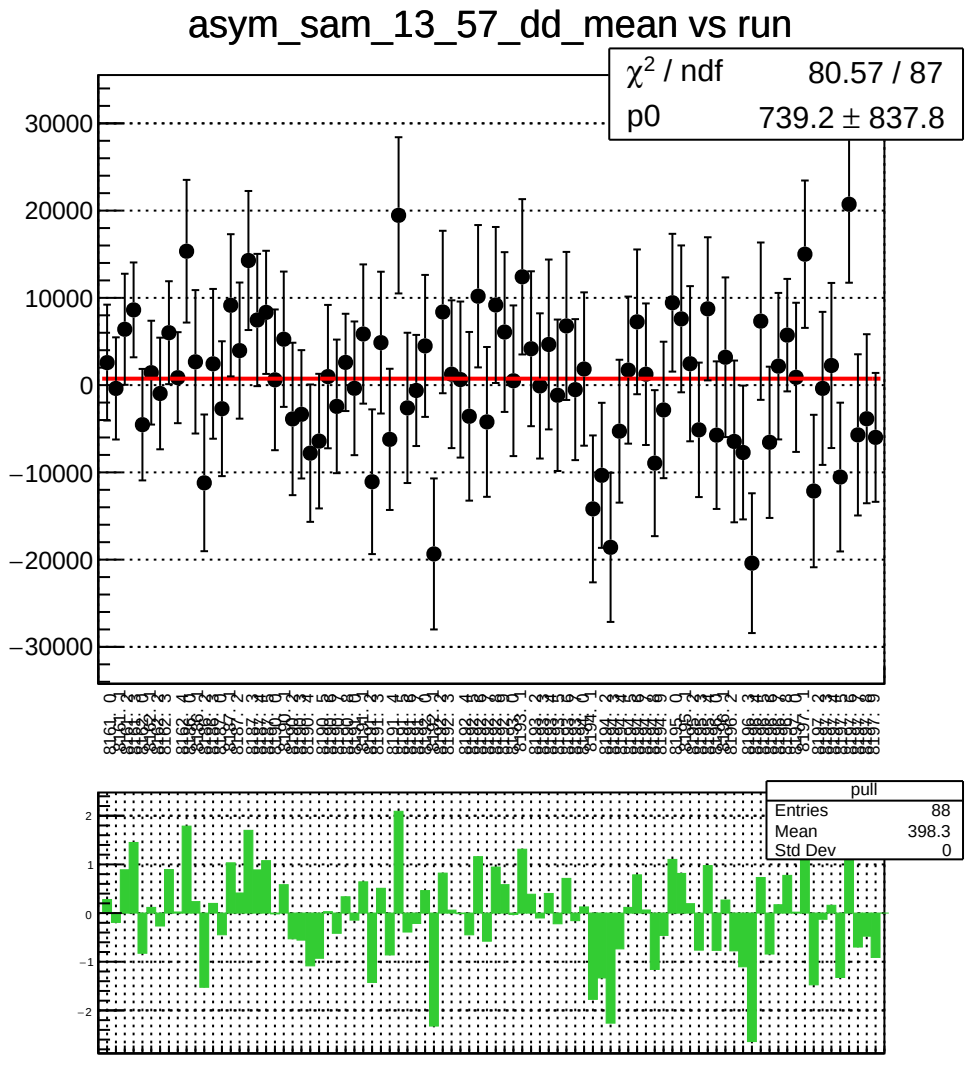

eigen_dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 75.4 / 87
p0 35.03 ± 79.98
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −320.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007539
Std Dev 0.9256
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

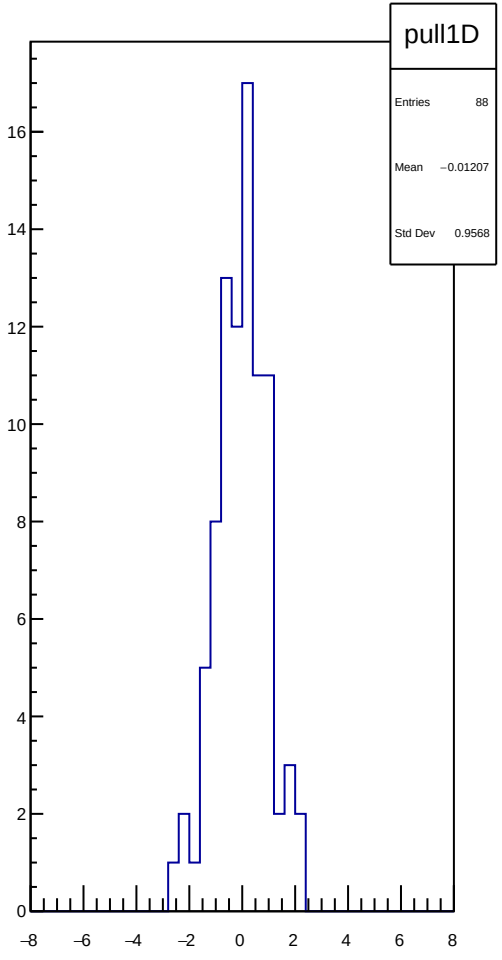

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.157e+04 / 87
p0 72.76 ± 0.05655
100
95
90
85
80
75
70
65
60

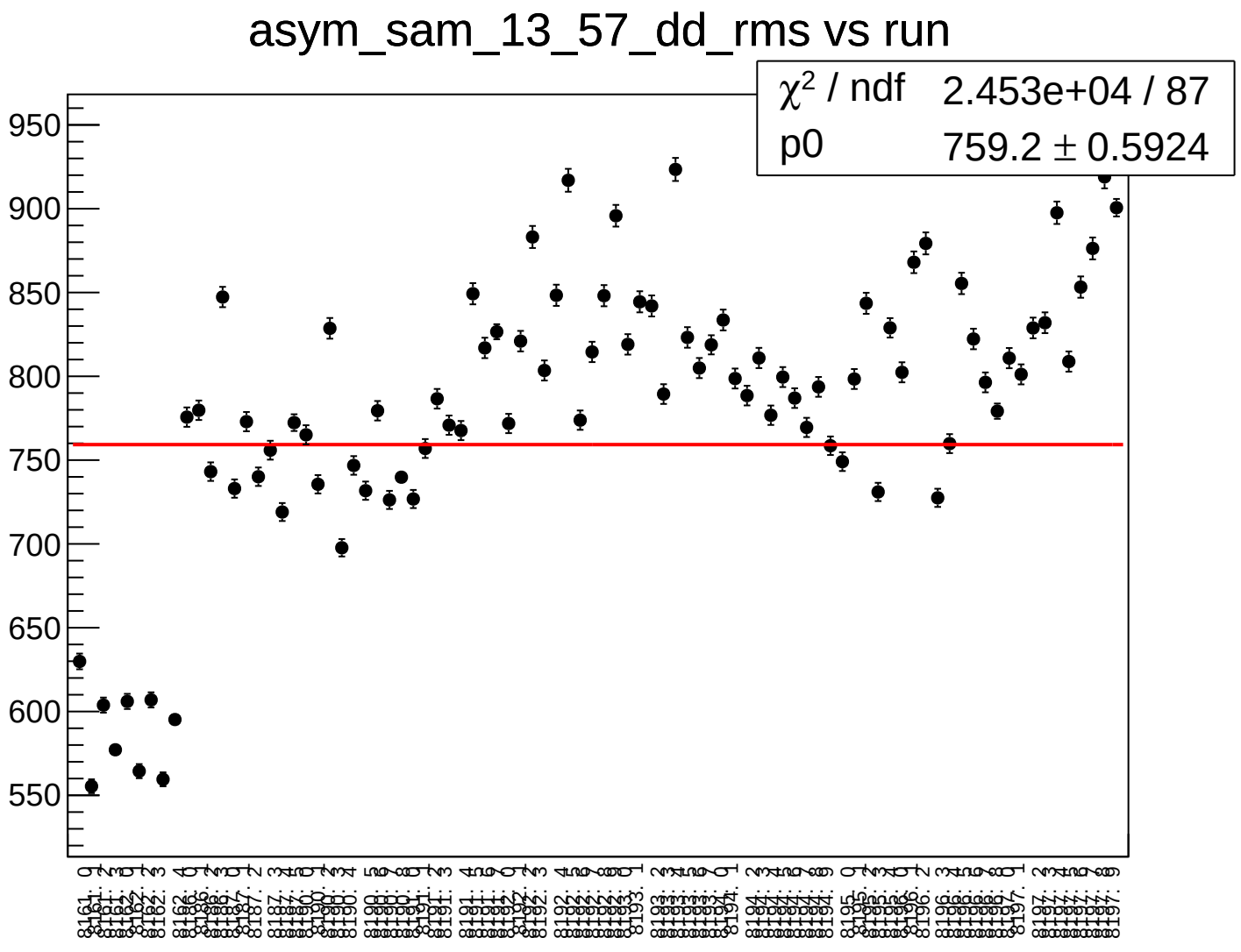

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.21 / 87
p0 −704.3 ± 833.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 355.2
Std Dev 0
2
1
0
−1
−2

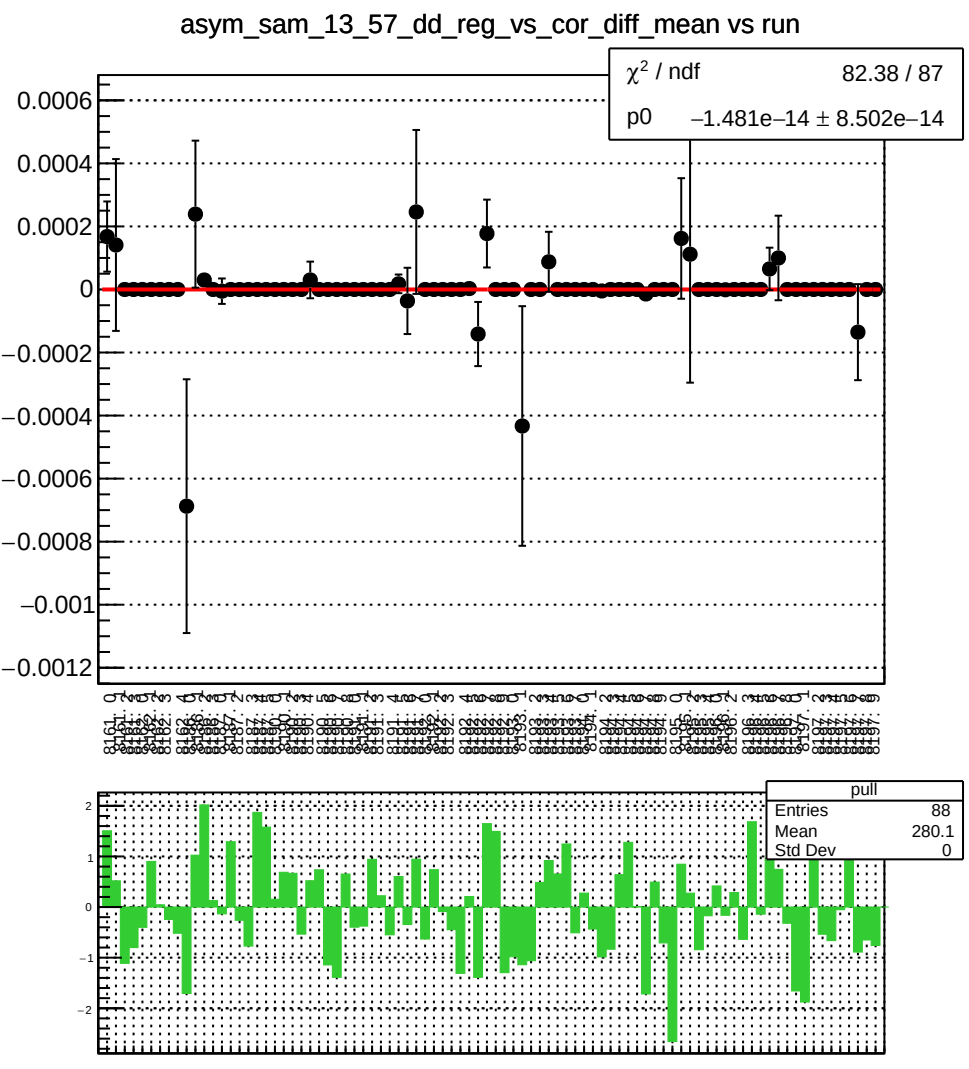

pull1D
Entries 88
Mean 0.01298
Std Dev 0.9487
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

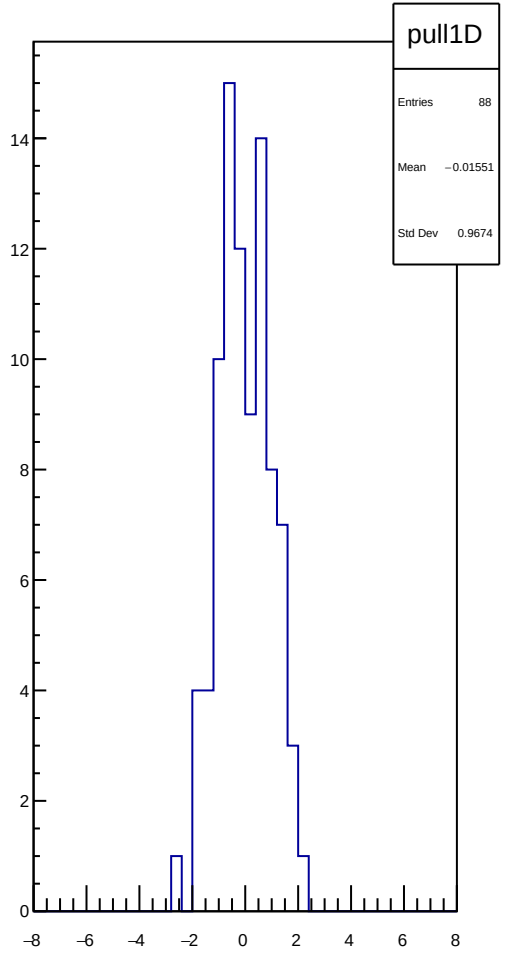

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.718e+04 / 87
p0 754.7 ± 0.5893
950
900
850
800
750
700
650
600
550

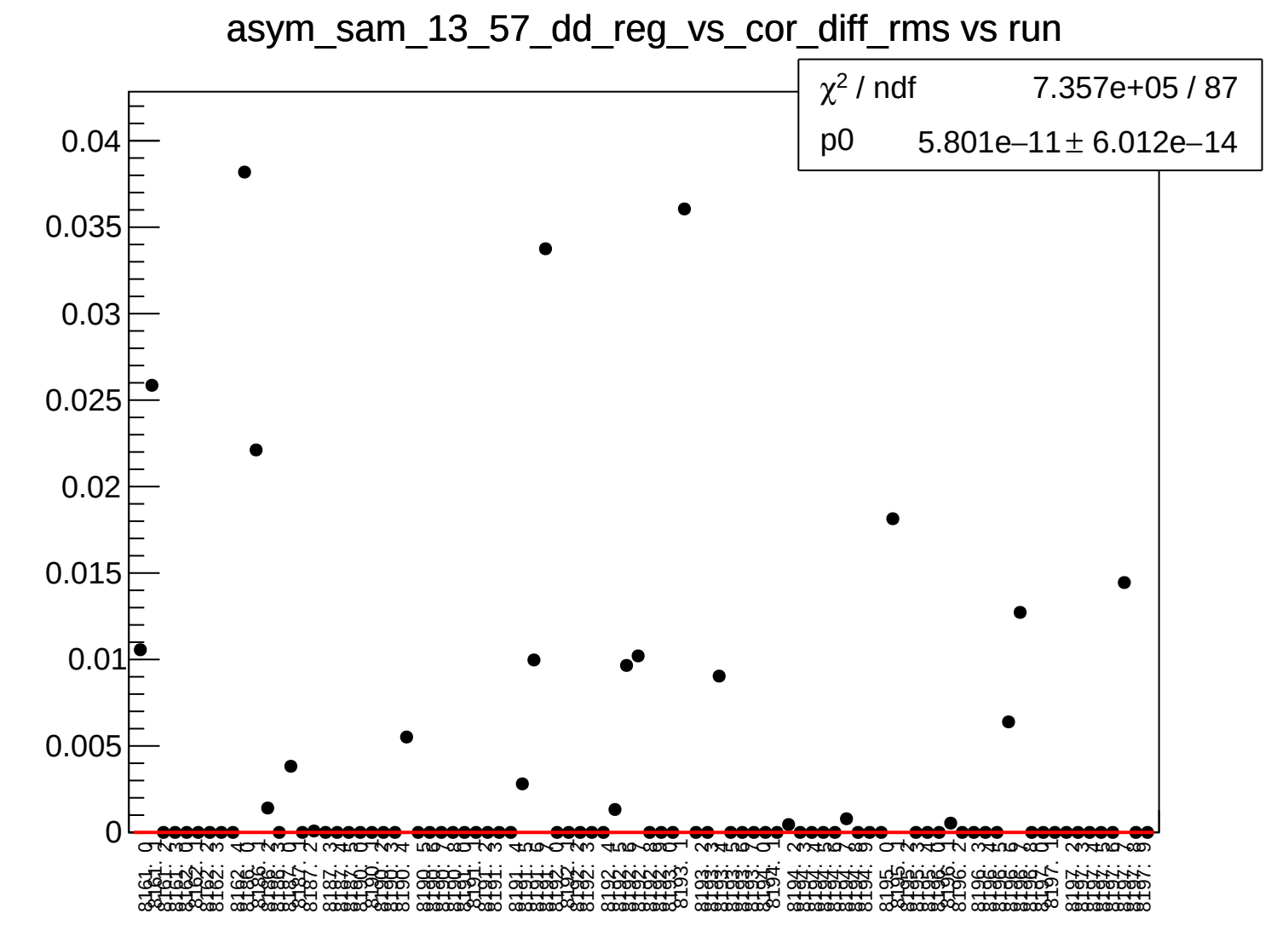

asym_sam_13_57_dd_mean vs run
χ² / ndf 80.57 / 87
p0 739.2 ± 837.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 398.3
Std Dev 0
2
1
0
−1
−2

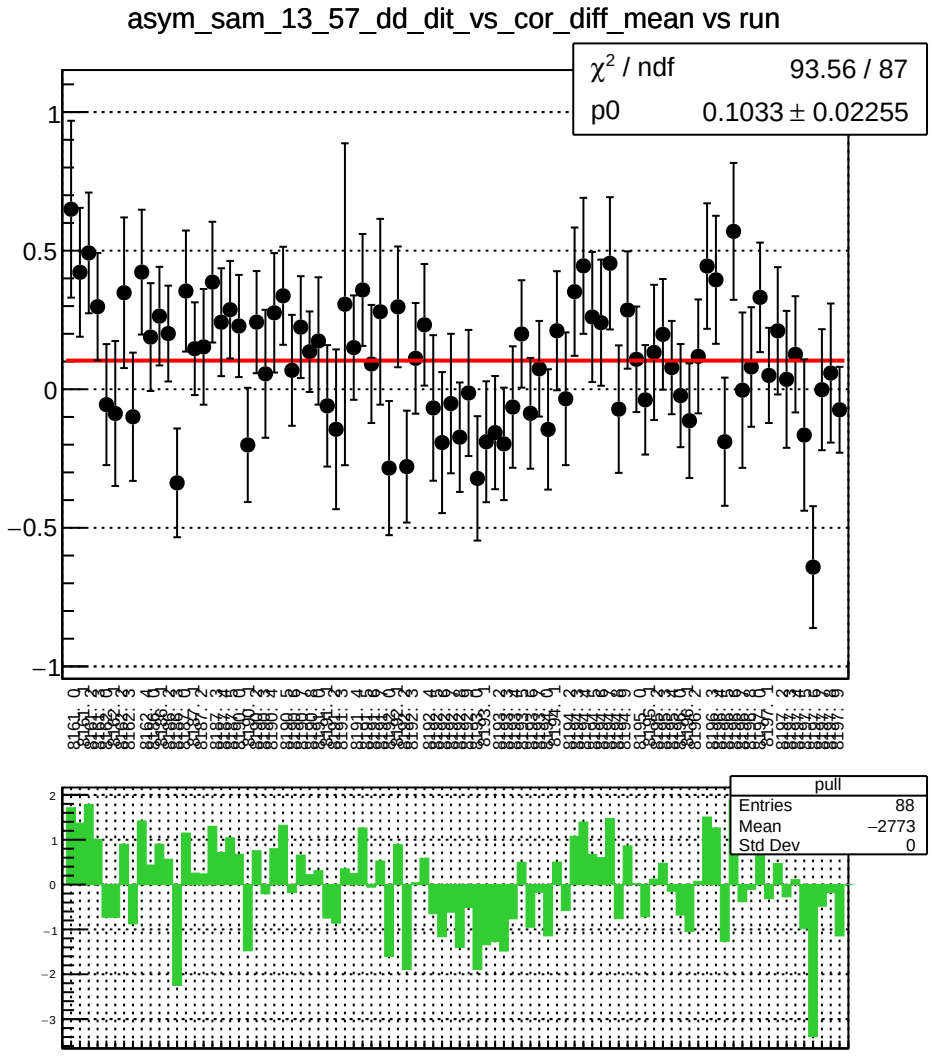

pull1D
Entries 88
Mean −0.01207
Std Dev 0.9568
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

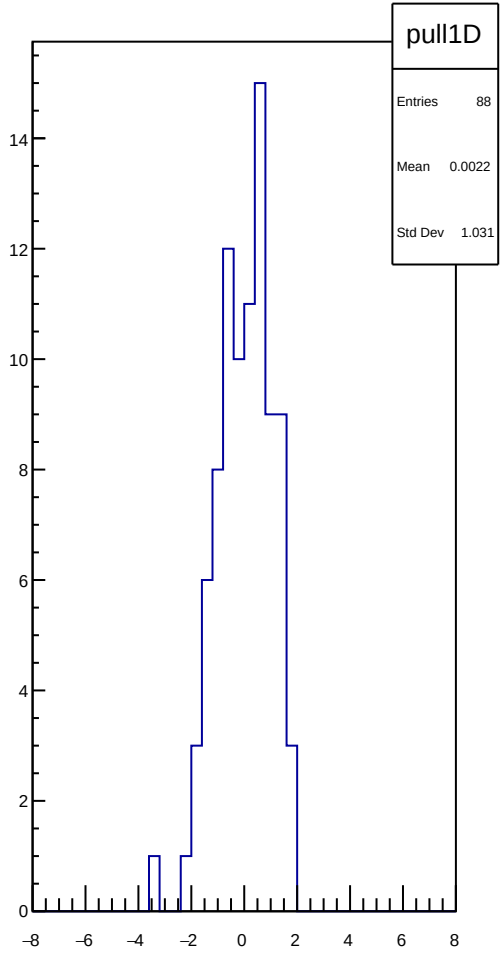

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.453e+04 / 87
p0 759.2 ± 0.5924
950
900
850
800
750
700
650
600
550

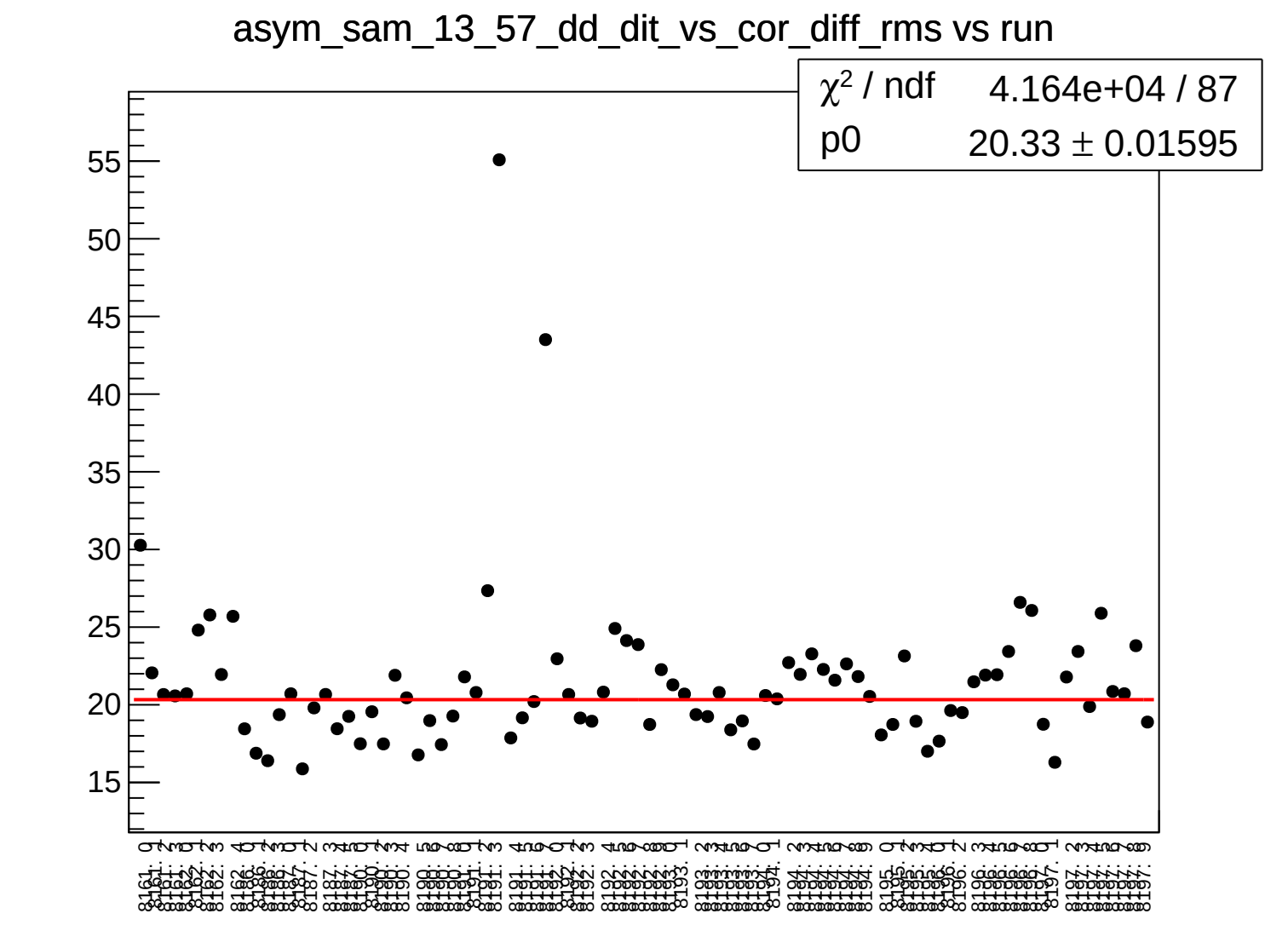

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.38 / 87
p0 −1.481e−14 ± 8.502e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 88
Mean 280.1
Std Dev 0
2
1
0
−1
−2

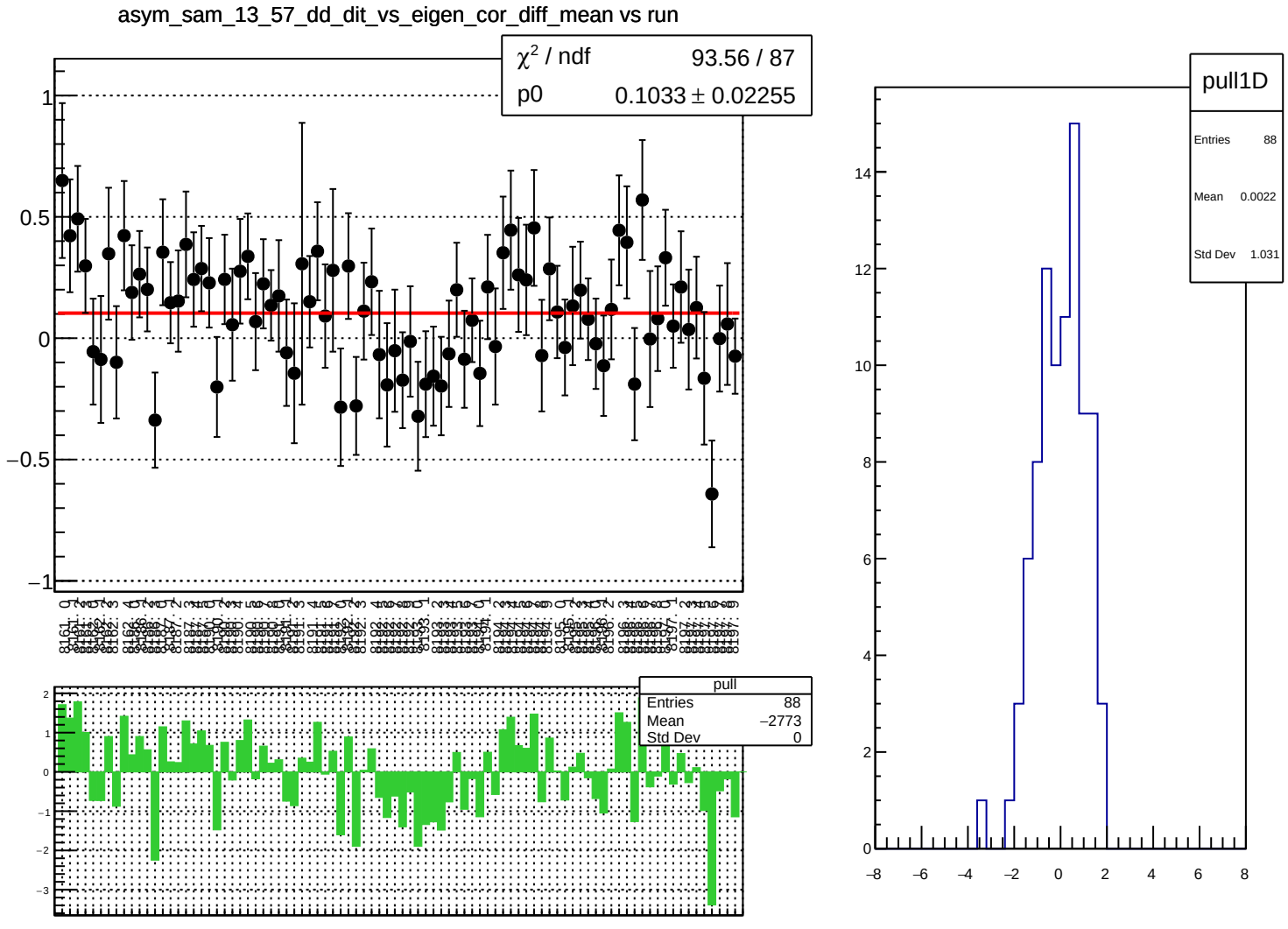

pull1D
Entries 88
Mean −0.01551
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

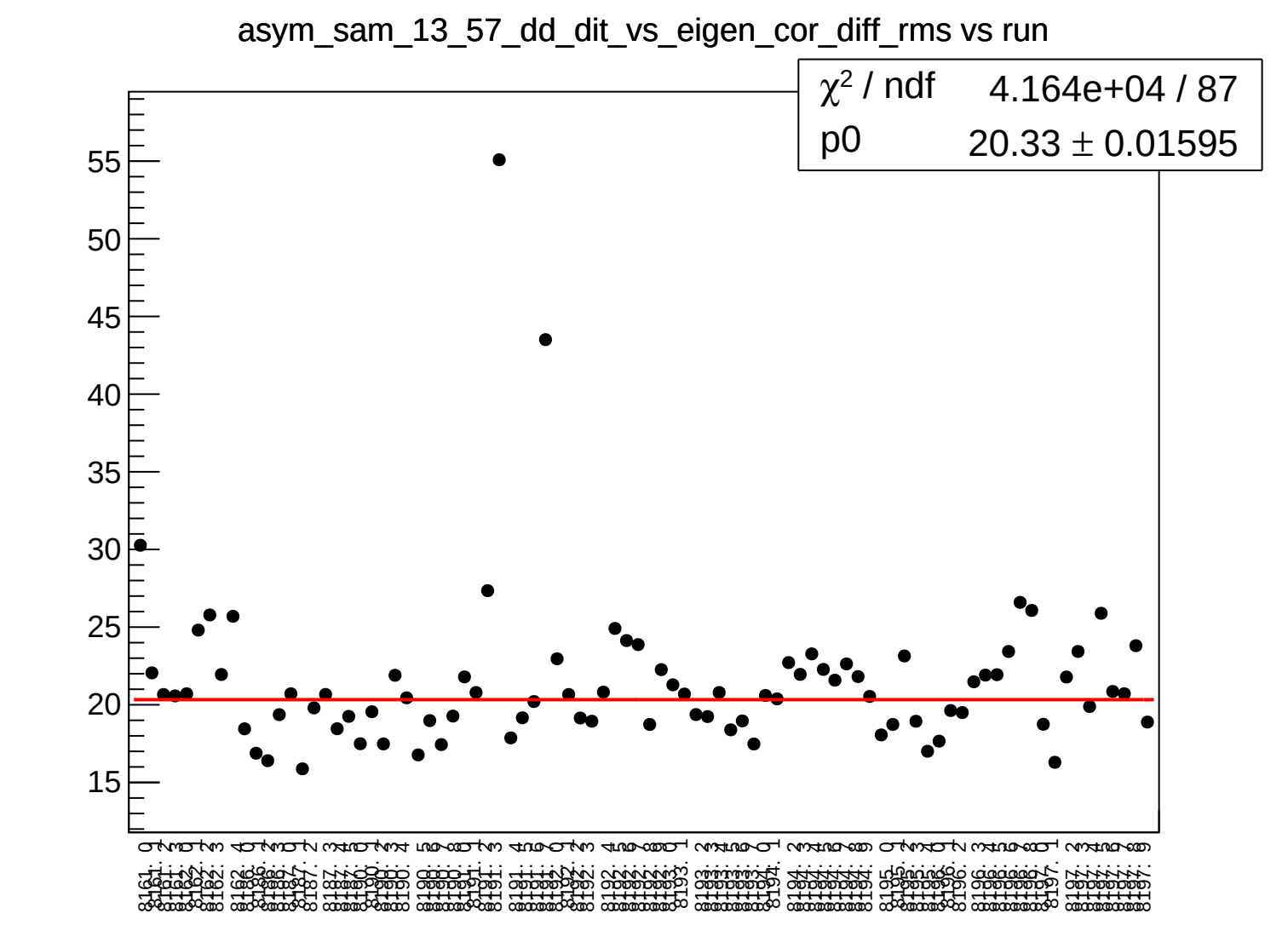

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.357e+05 / 87
p0 5.801e−11 ± 6.012e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

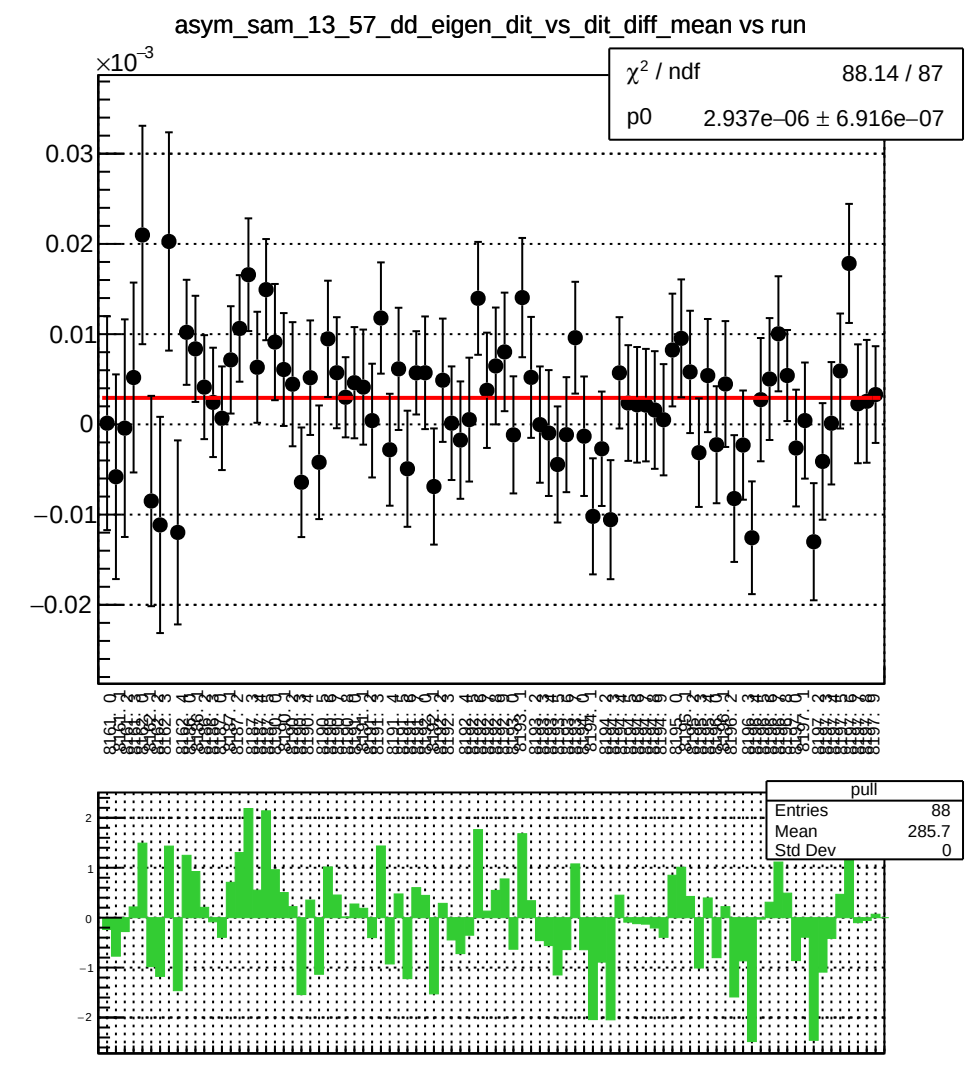

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.56 / 87
p0 0.1033 ± 0.02255
pull
Entries 88
Mean −2773
Std Dev 0

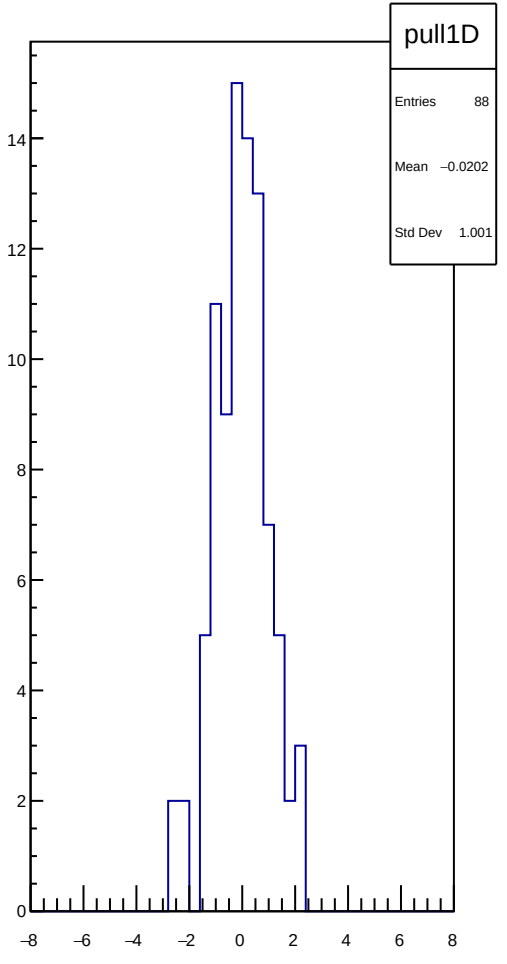

pull1D
Entries 88
Mean 0.0022
Std Dev 1.031

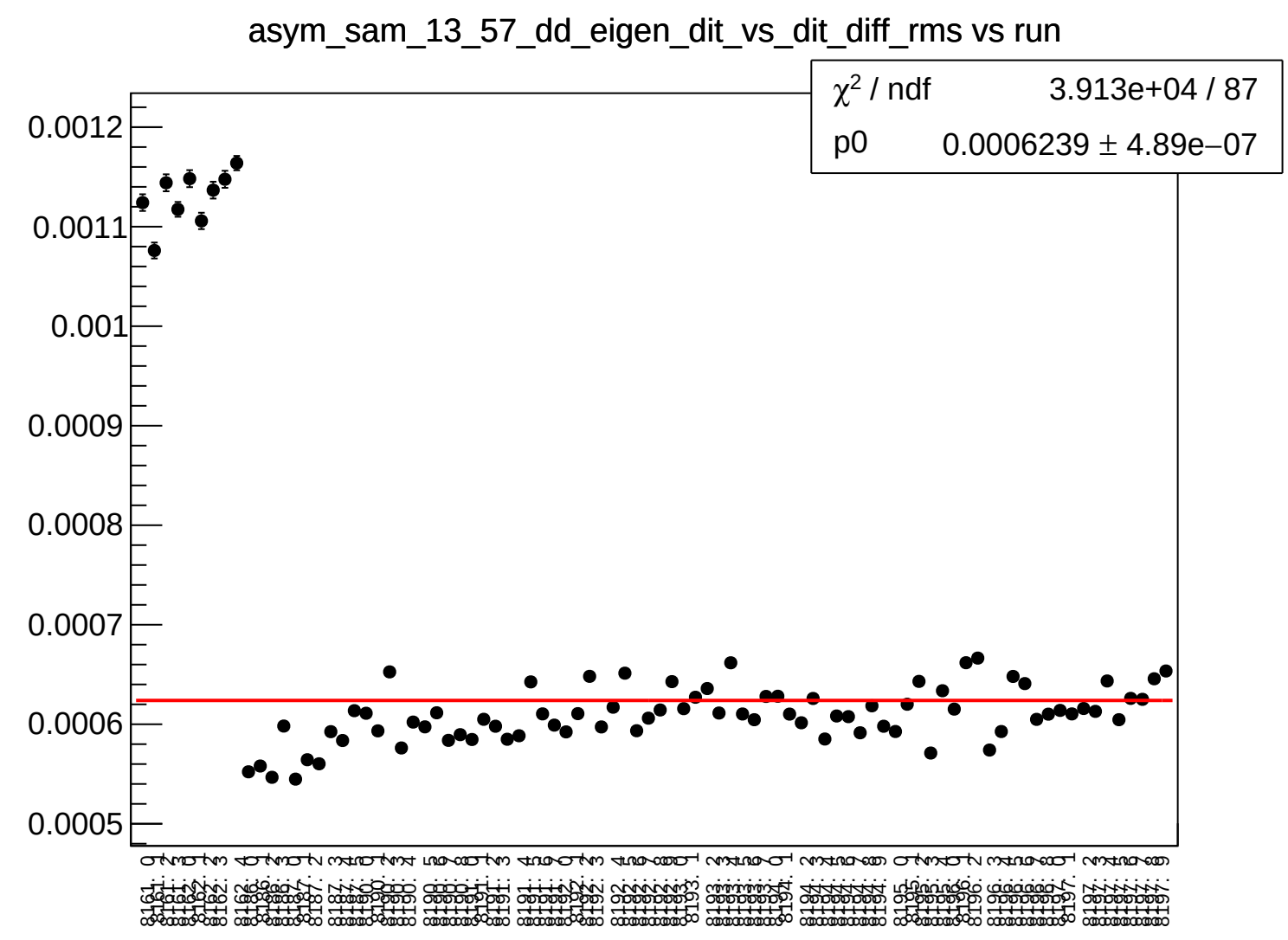

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.164e+04 / 87
p0 20.33 ± 0.01595
55
50
45
40
35
30
25
20
15

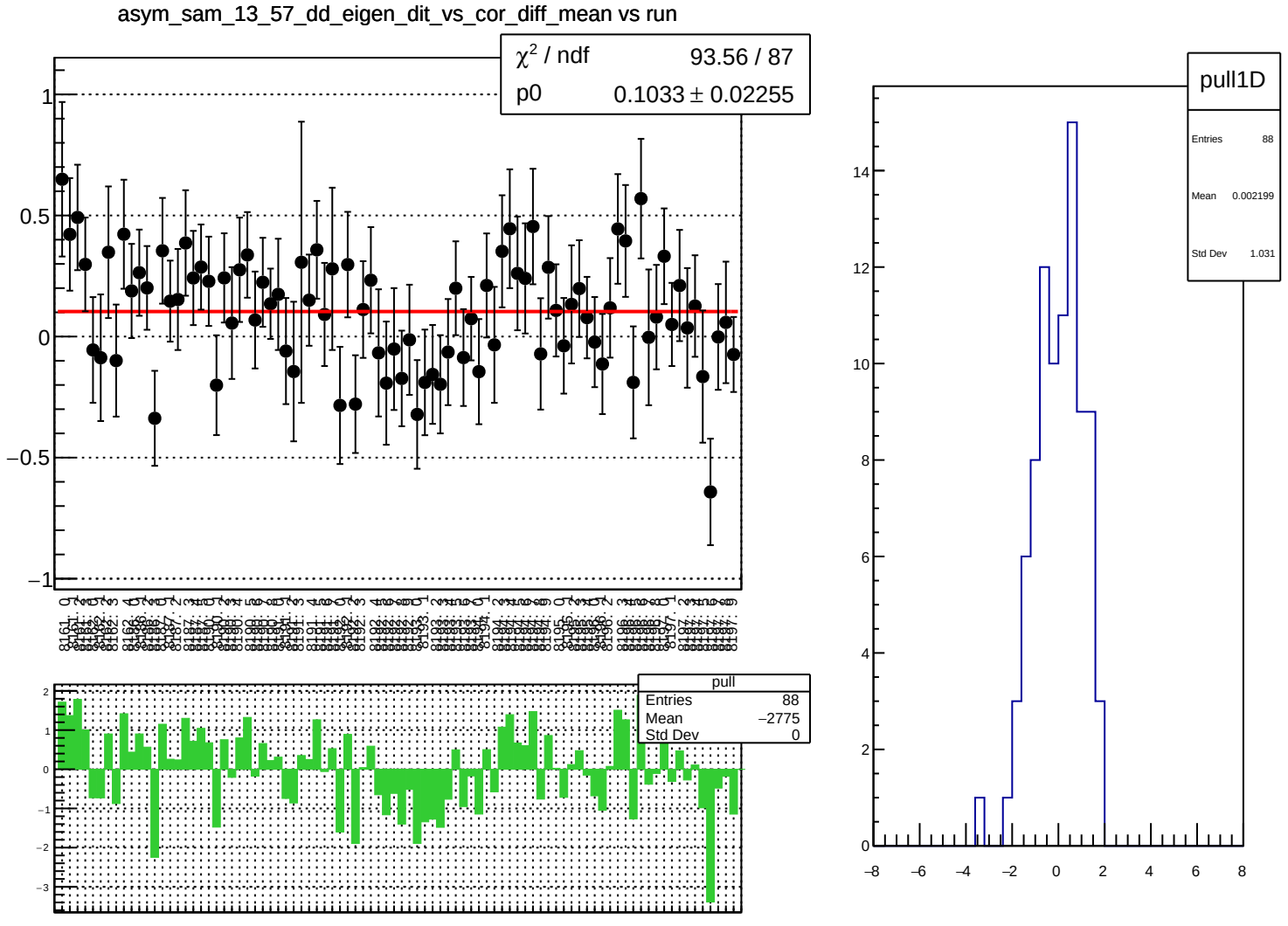

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.56 / 87
p0 0.1033 ± 0.02255
pull
Entries 88
Mean −2773
Std Dev 0
pull1D
Entries 88
Mean 0.0022
Std Dev 1.031

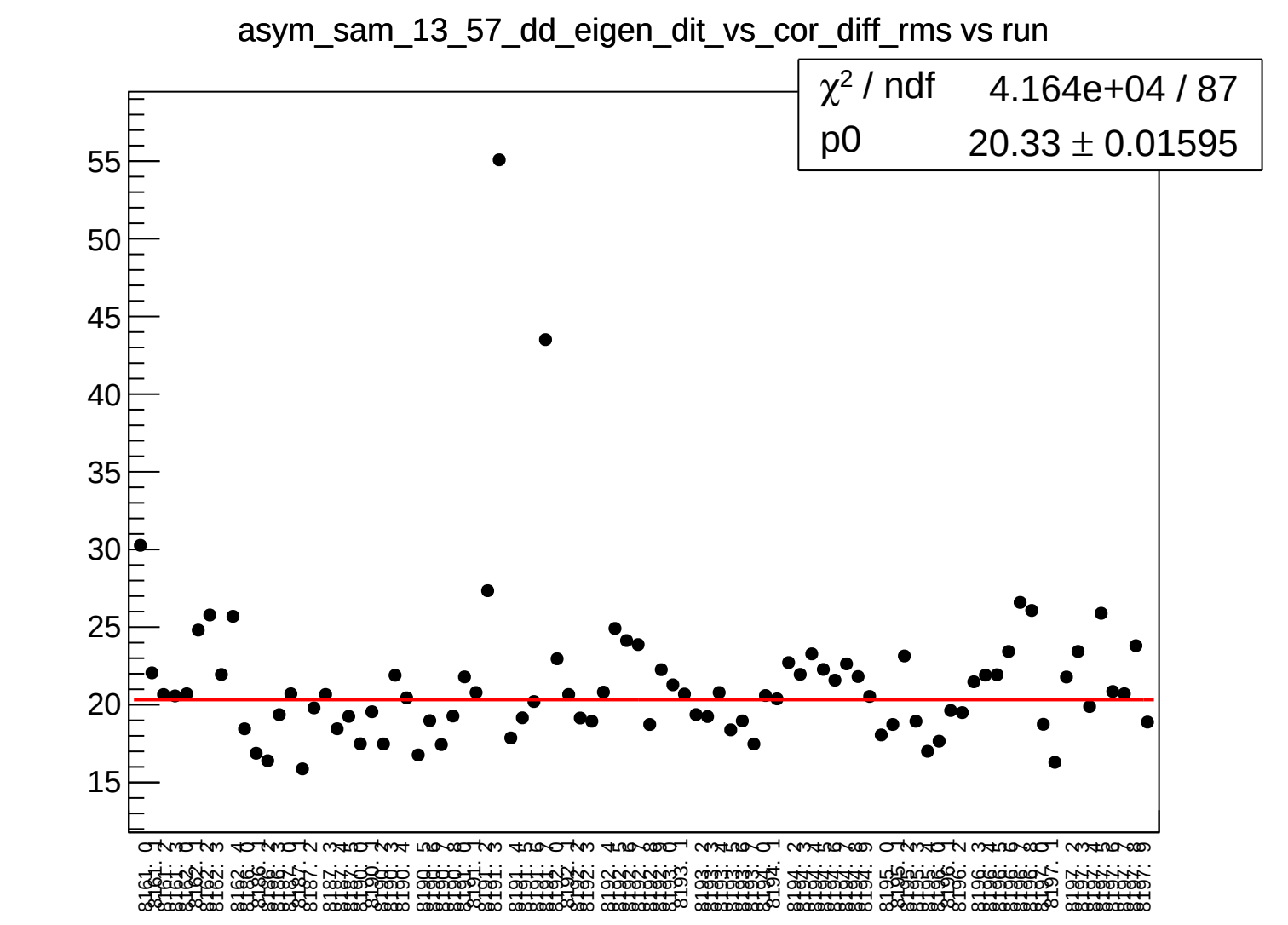

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.164e+04 / 87
p0 20.33 ± 0.01595
55
50
45
40
35
30
25
20
15

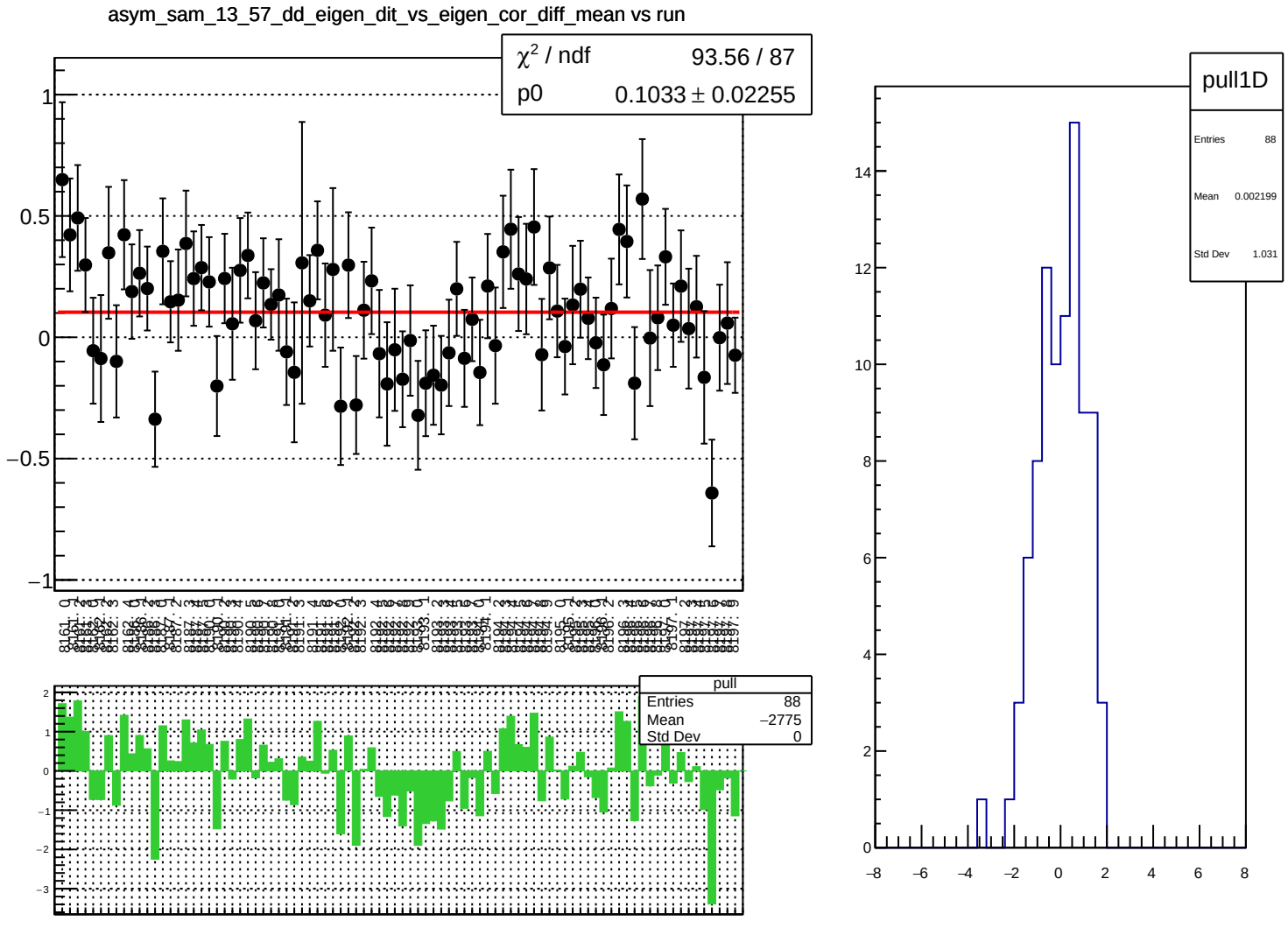

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.14 / 87
p0 2.937e−06 ± 6.916e−07
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 285.7
Std Dev 0
2
1
0
−1
−2

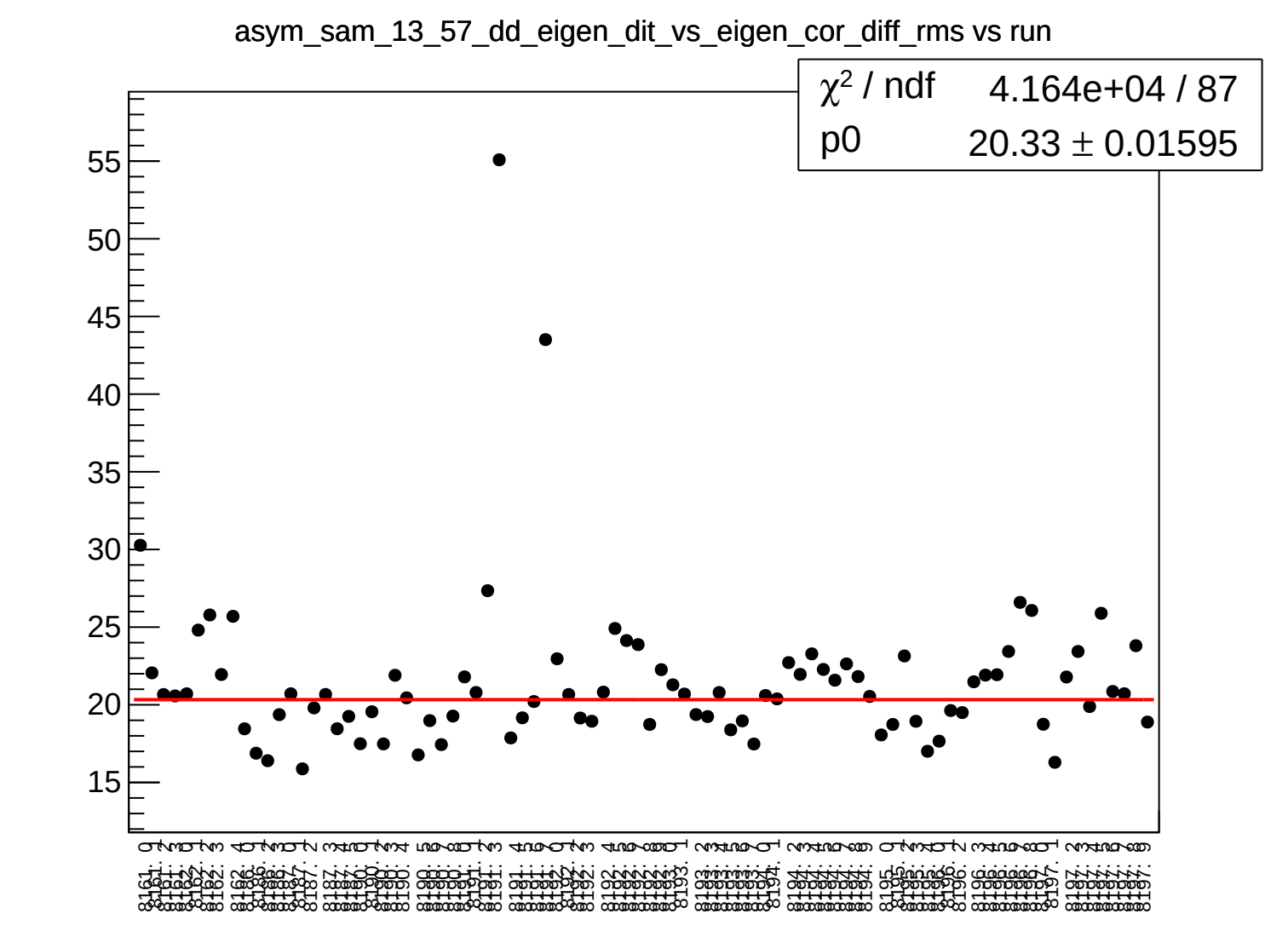

pull1D
Entries 88
Mean −0.0202
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

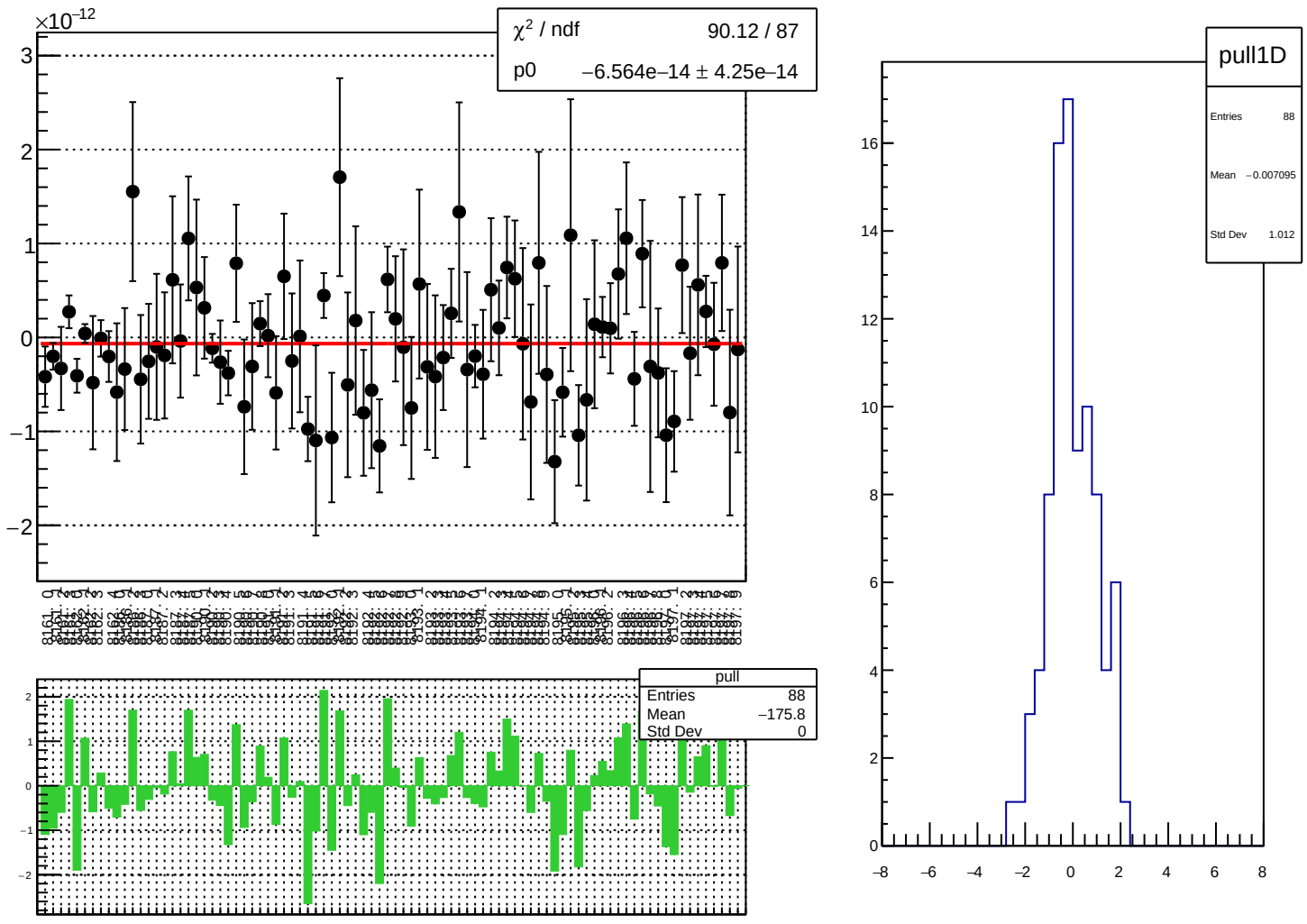

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.913e+04 / 87
p0 0.0006239 ± 4.89e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

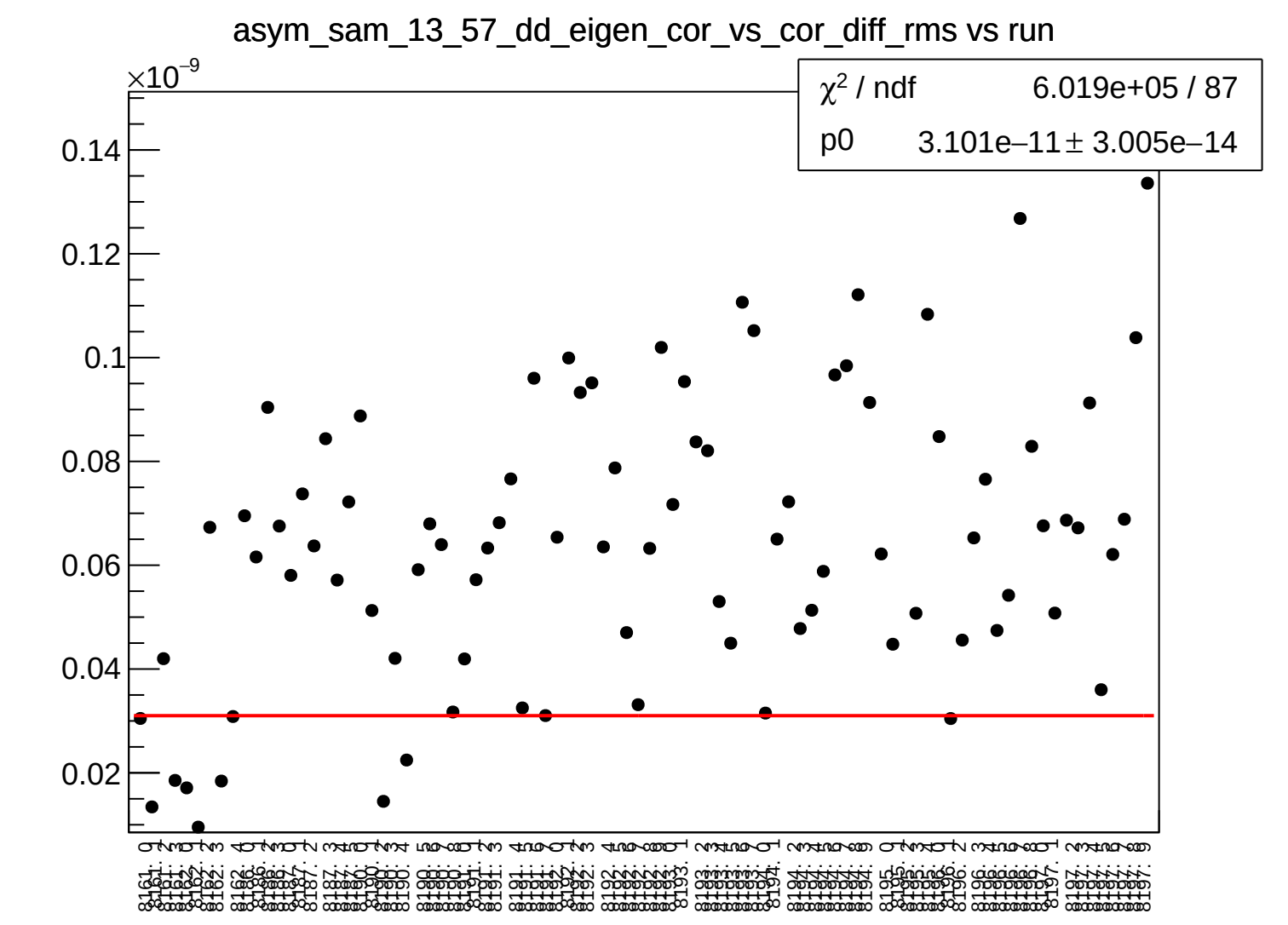

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.56 / 87
p0 0.1033 ± 0.02255
pull
Entries 88
Mean −2775
Std Dev 0
pull1D
Entries 88
Mean 0.002199
Std Dev 1.031

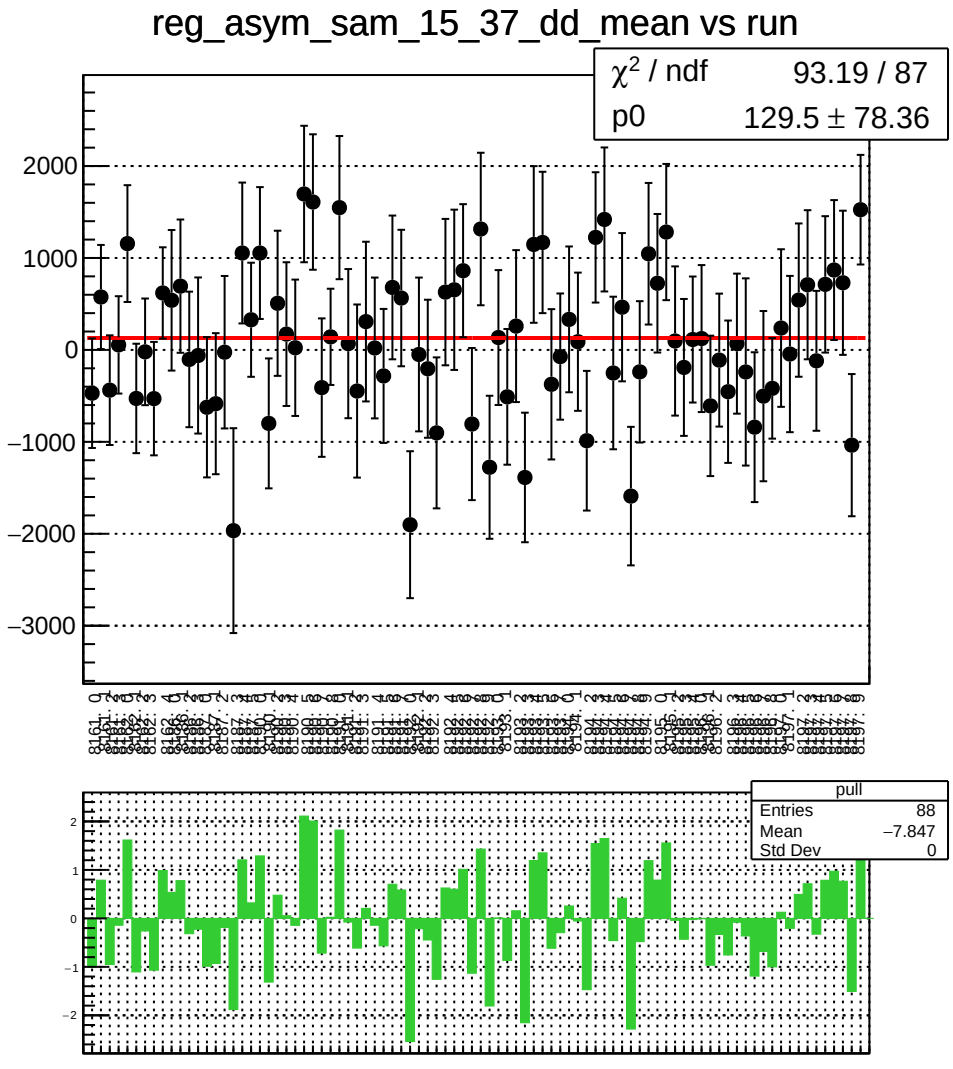

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.164e+04 / 87
p0 20.33 ± 0.01595
55
50
45
40
35
30
25
20
15

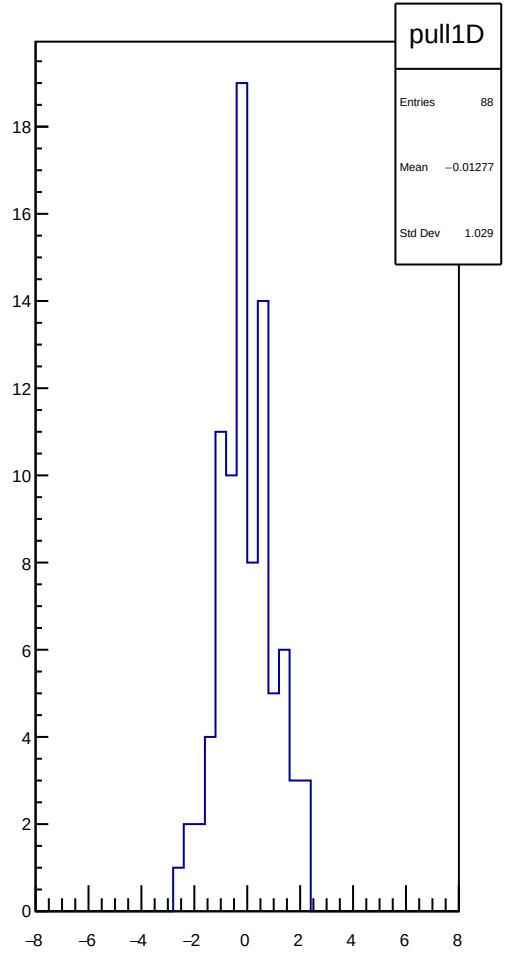

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.56 / 87
p0 0.1033 ± 0.02255
pull
Entries 88
Mean −2775
Std Dev 0
pull1D
Entries 88
Mean 0.002199
Std Dev 1.031

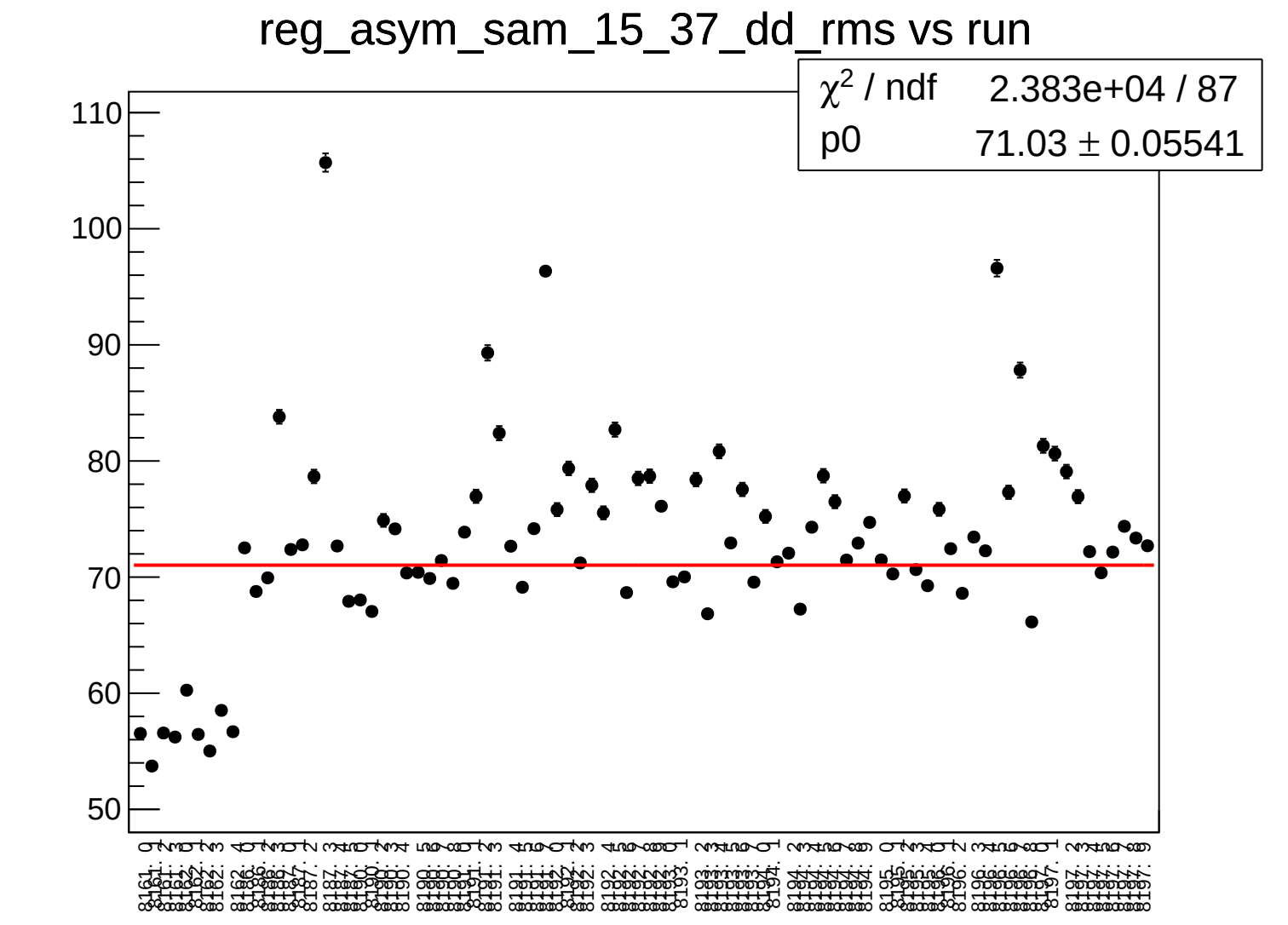

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.164e+04 / 87
p0 20.33 ± 0.01595
55
50
45
40
35
30
25
20
15

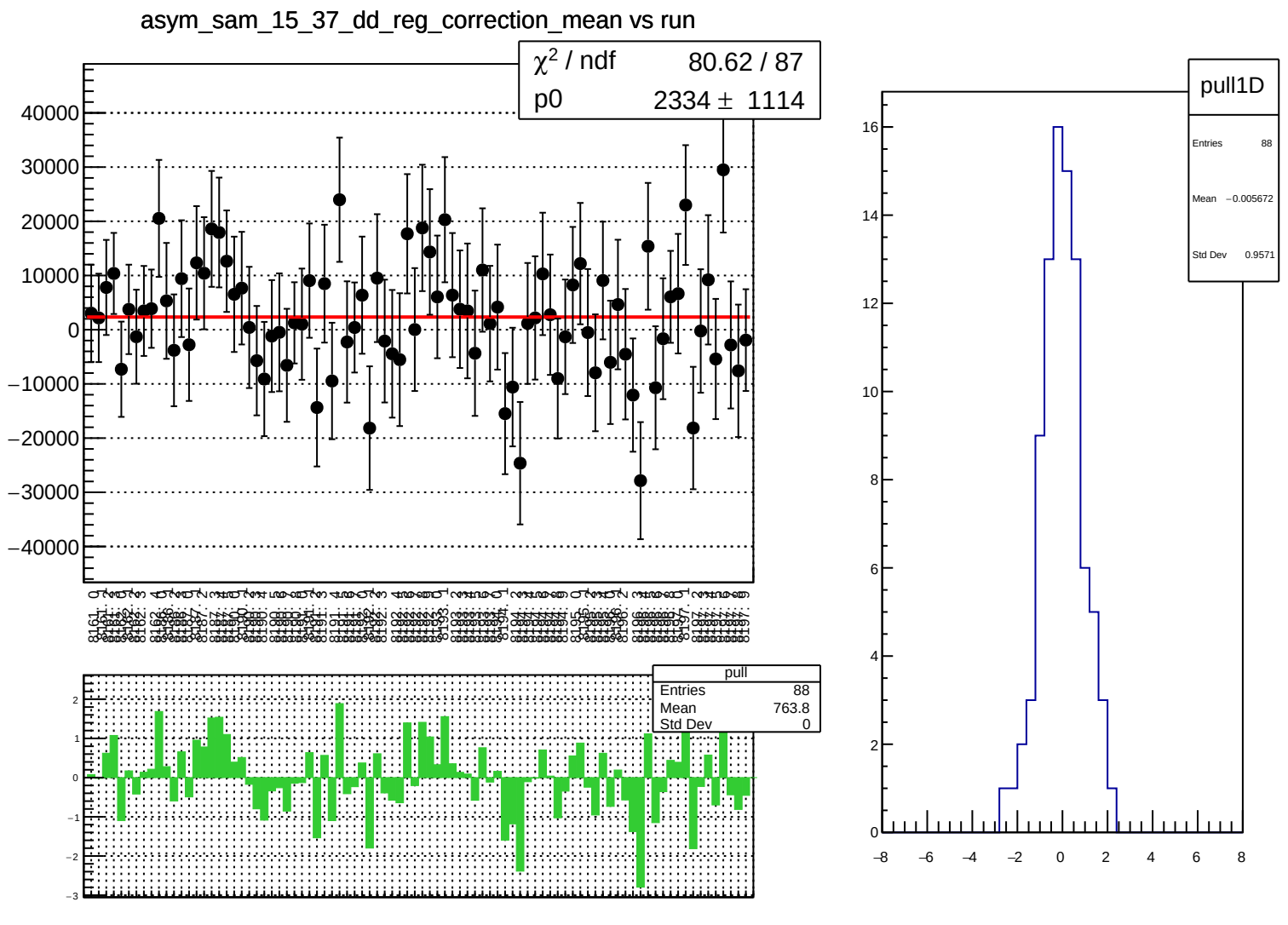

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.12 / 87
p0 −6.564e−14 ± 4.25e−14
pull
Entries 88
Mean −175.8
Std Dev 0
pull1D
Entries 88
Mean −0.007095
Std Dev 1.012

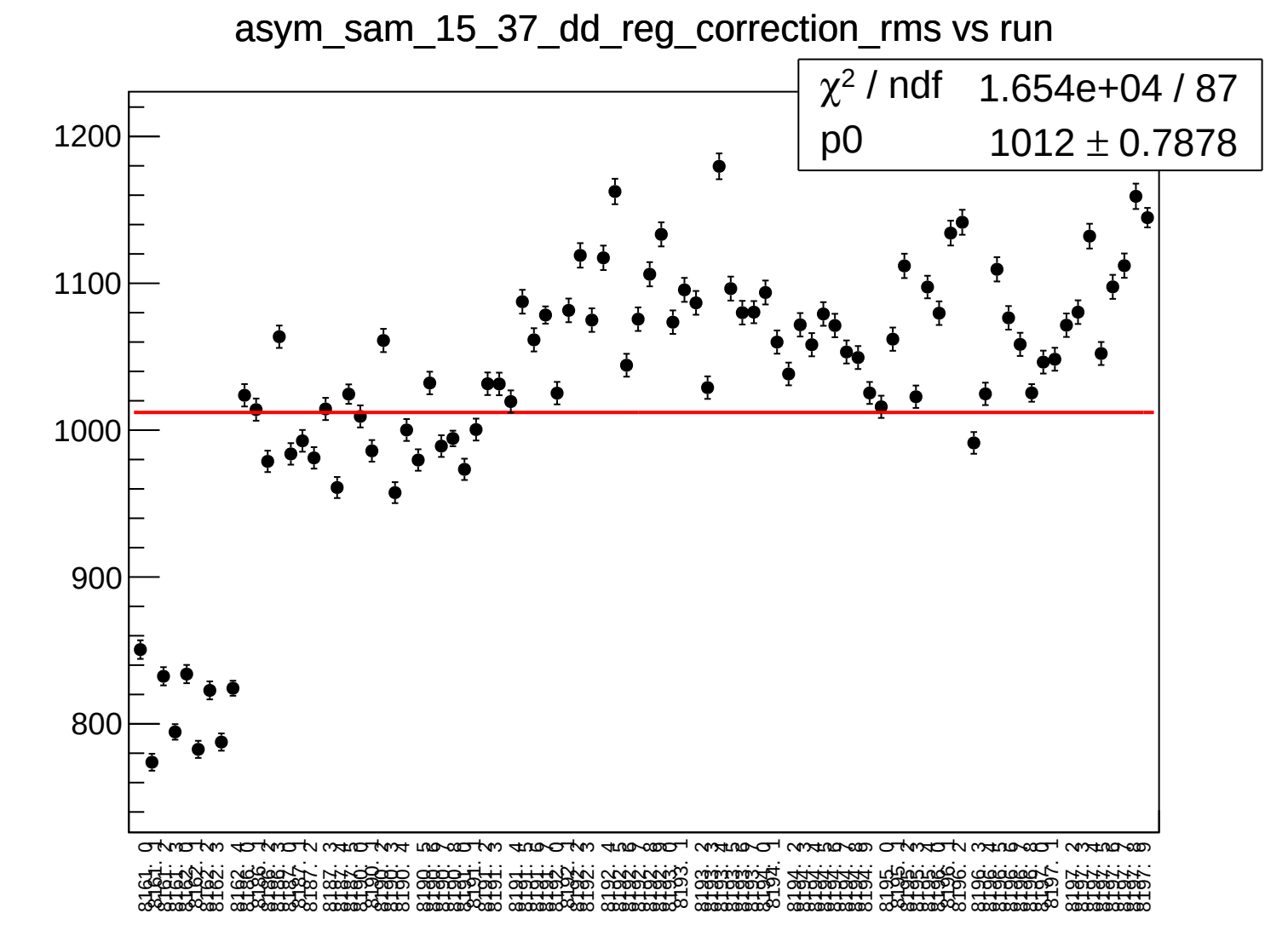

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.019e+05 / 87
p0 3.101e−11 ± 3.005e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

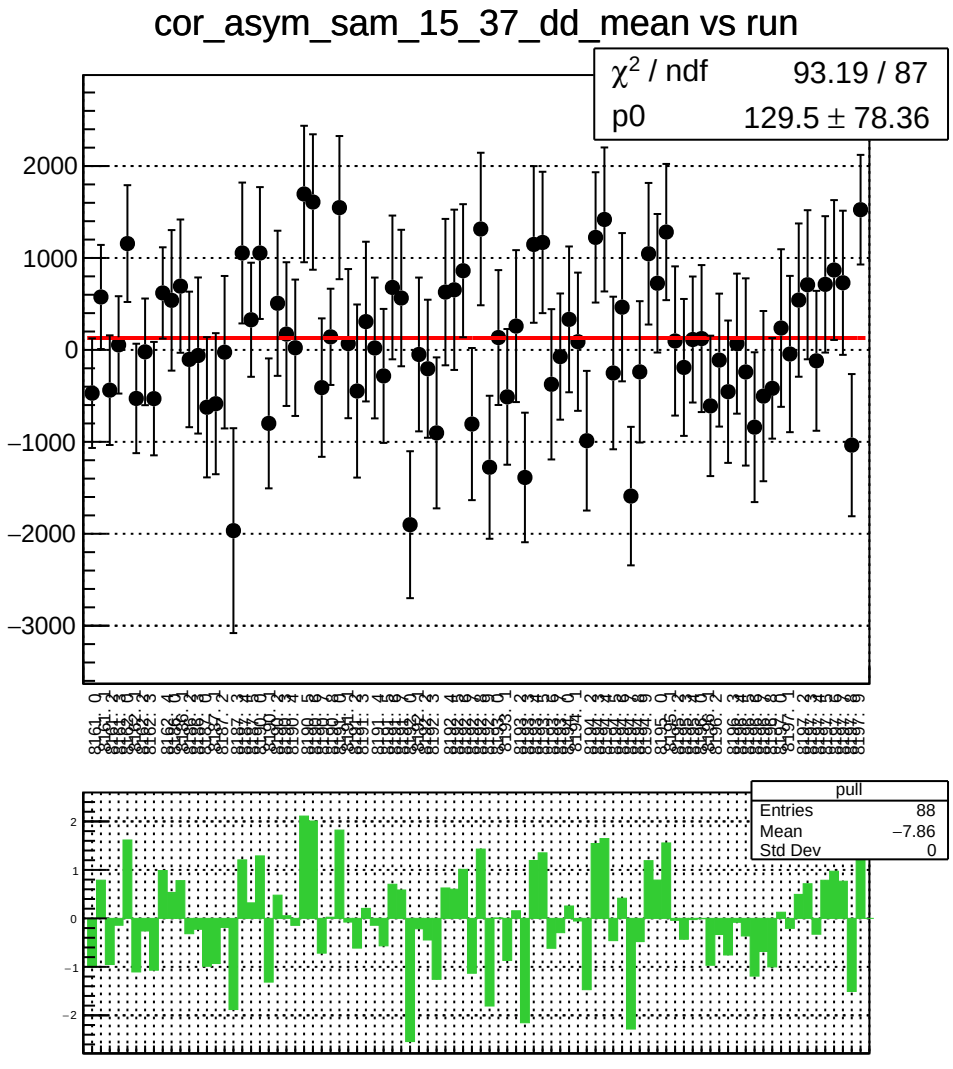

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.19 / 87
p0 129.5 ± 78.36
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −7.847
Std Dev 0
2
1
0
−1
−2

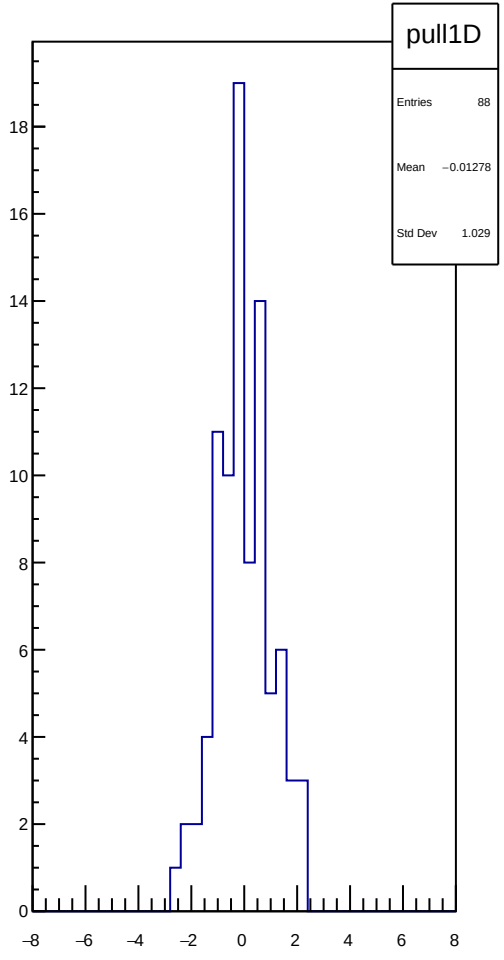

pull1D
Entries 88
Mean −0.01277
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

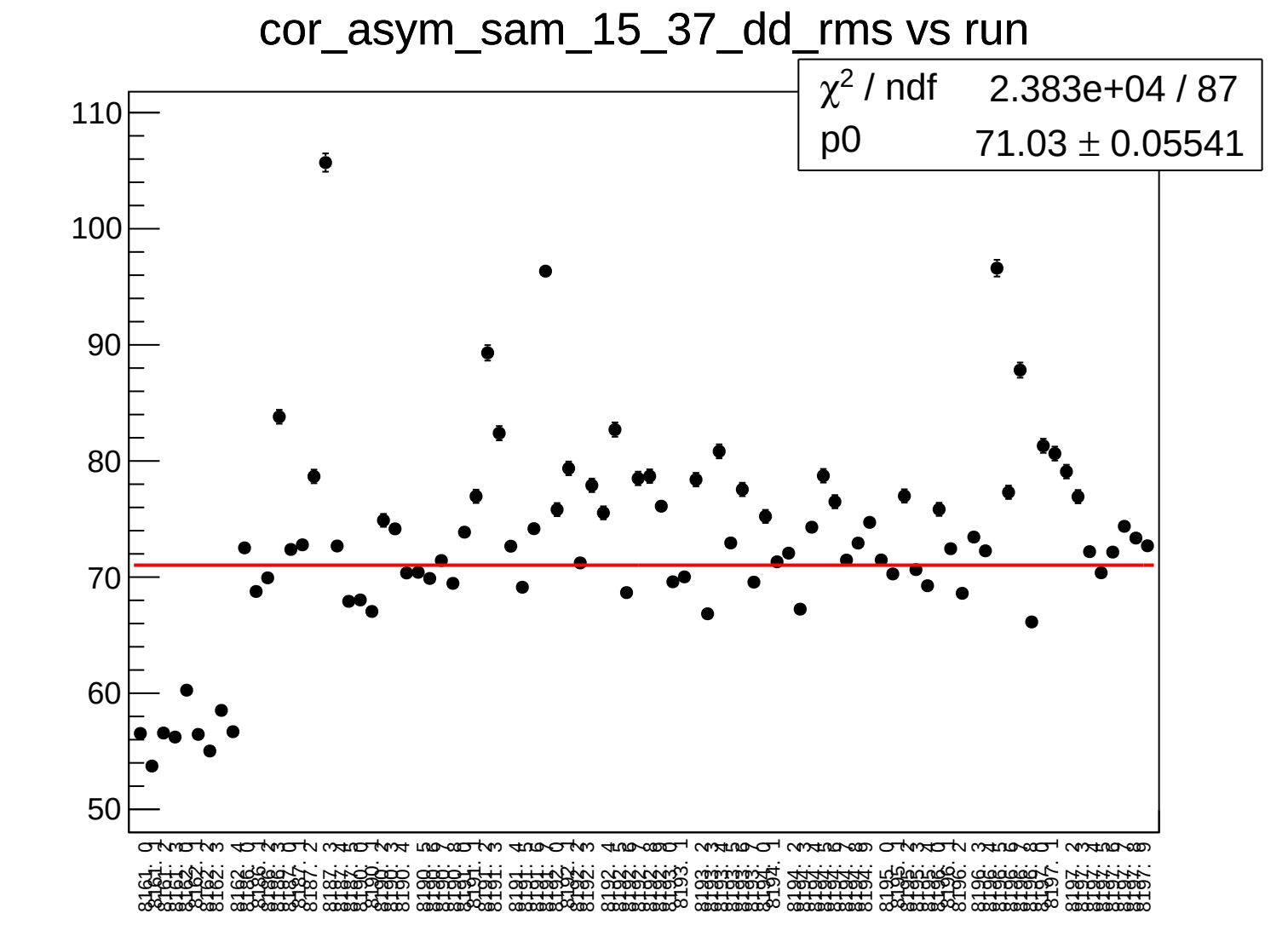

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.383e+04 / 87
p0 71.03 ± 0.05541
110
100
90
80
70
60
50

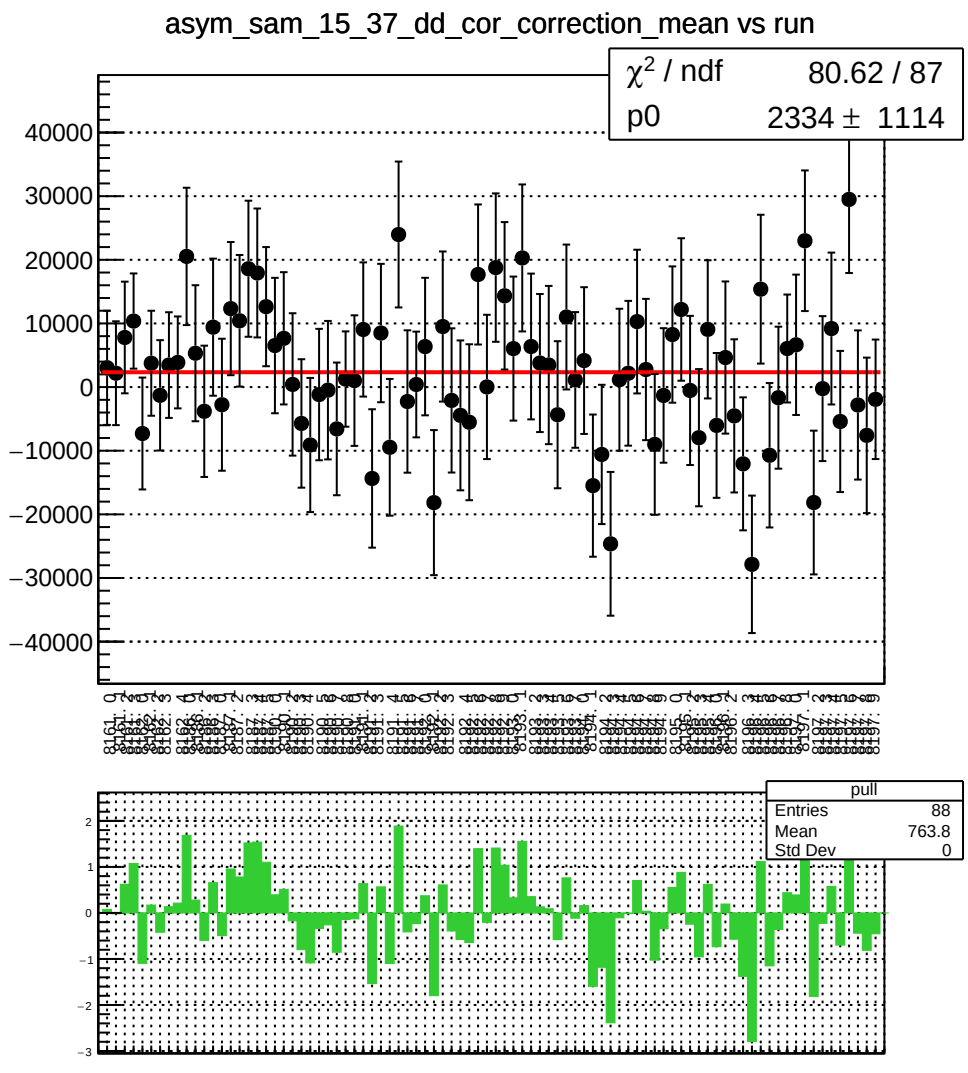

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 80.62 / 87
p0 2334 ± 1114
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 763.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.005672
Std Dev 0.9571
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

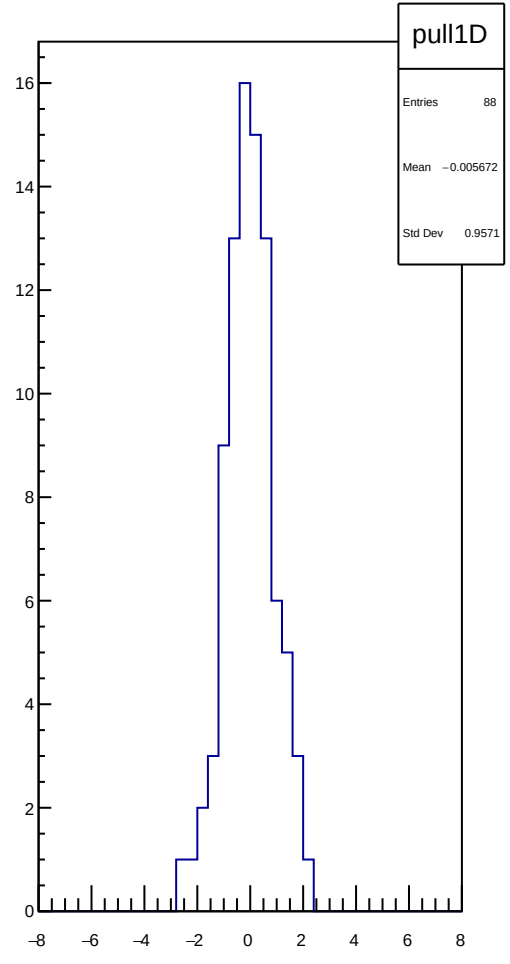

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.654e+04 / 87
p0 1012 ± 0.7878
1200
1100
1000
900
800

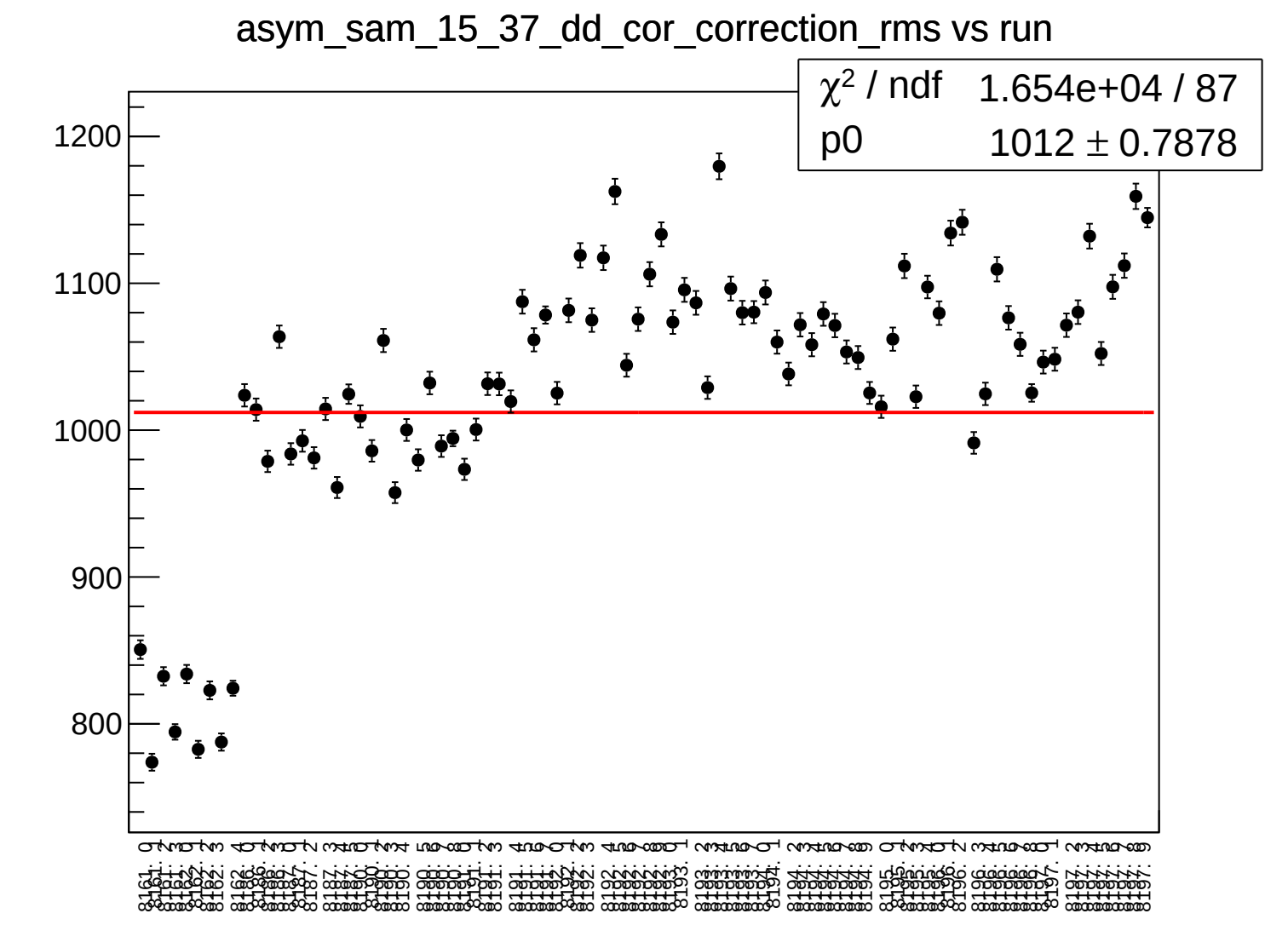

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.19 / 87
p0 129.5 ± 78.36
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −7.86
Std Dev 0
2
1
0
−1
−2

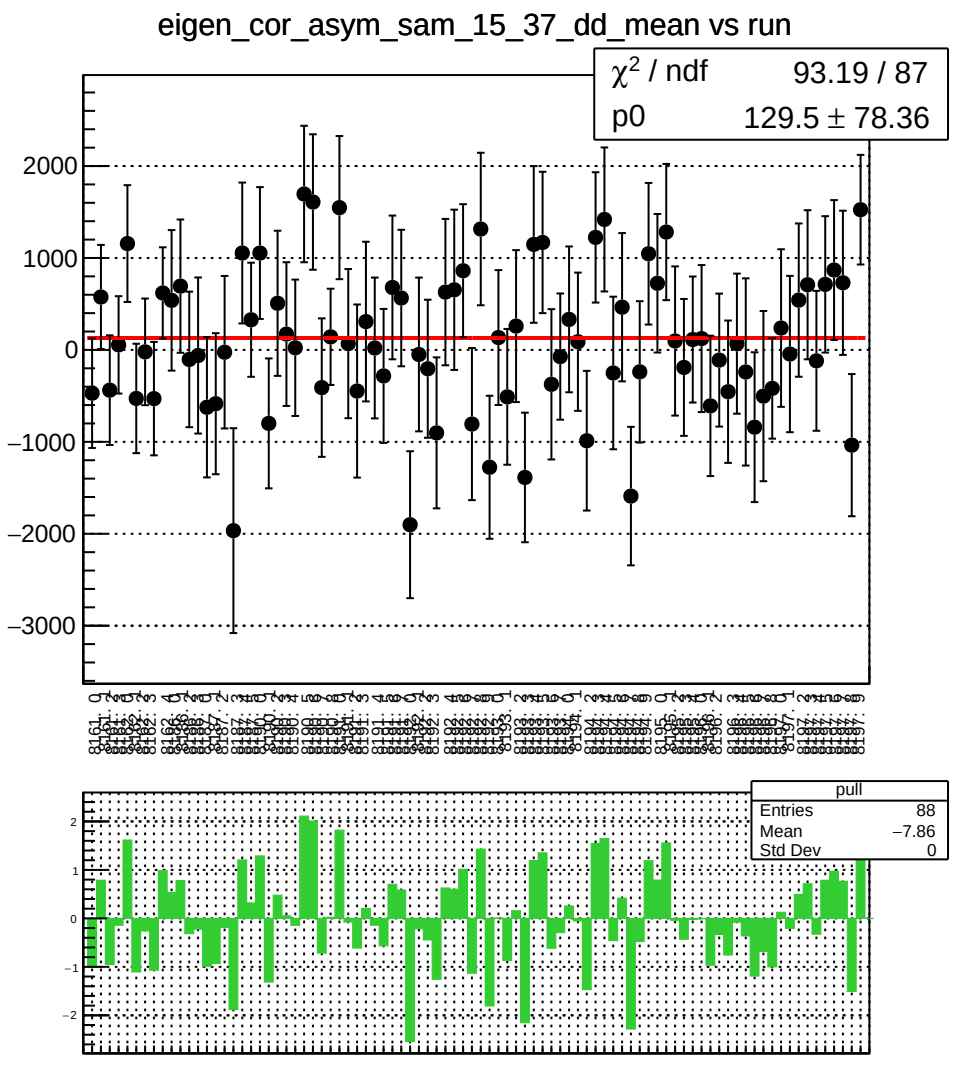

pull1D
Entries 88
Mean −0.01278
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

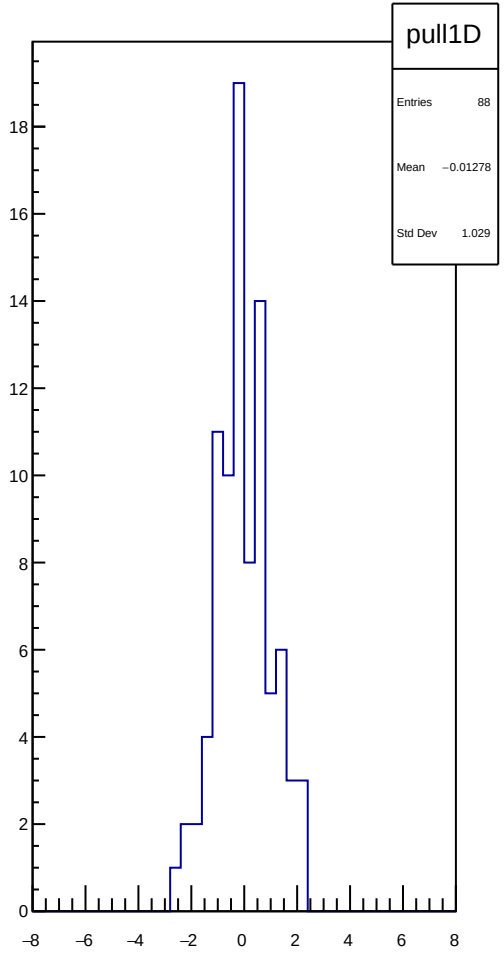

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.383e+04 / 87
p0 71.03 ± 0.05541
110
100
90
80
70
60
50

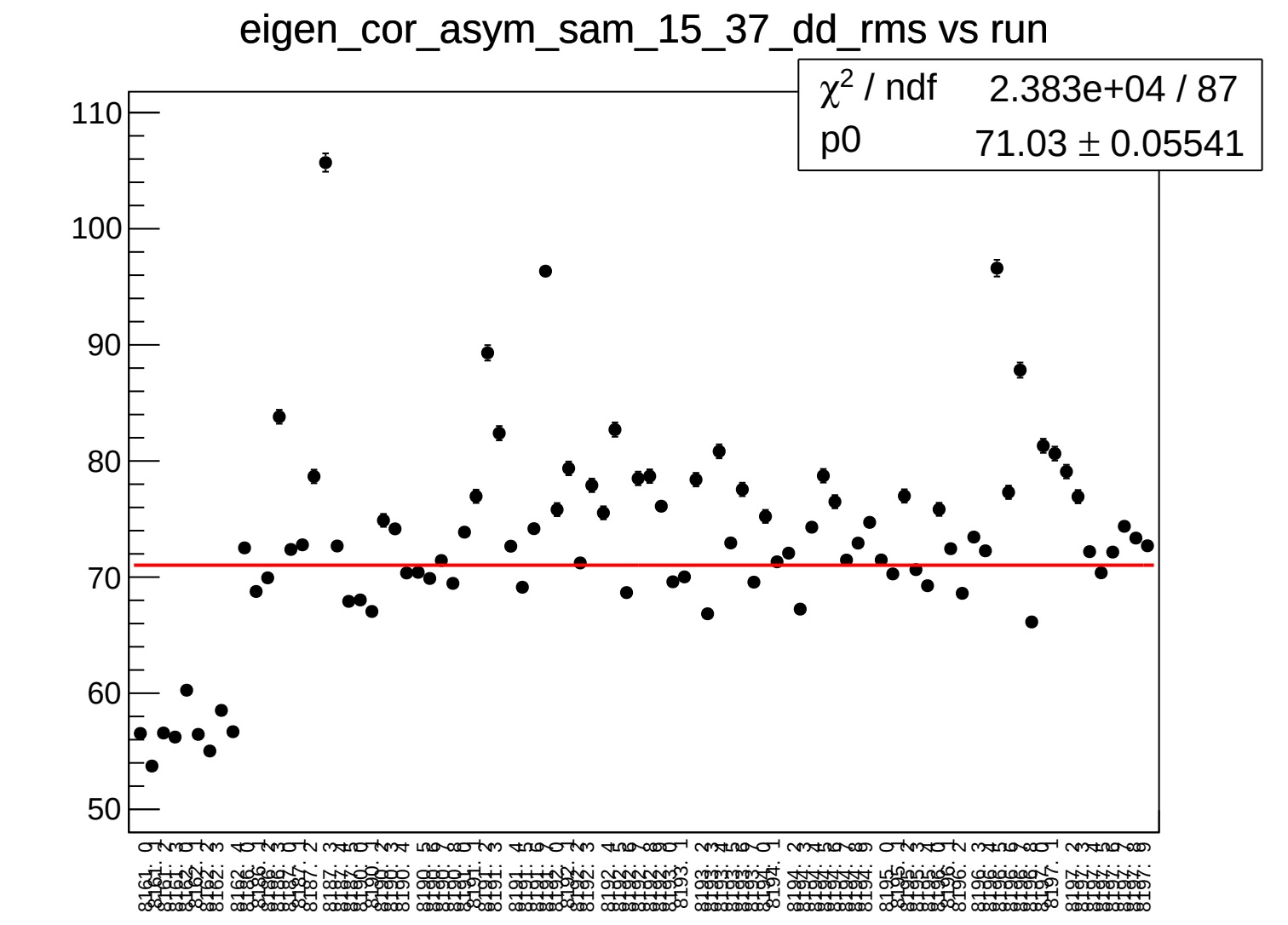

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 80.62 / 87
p0 2334 ± 1114
pull
Entries 88
Mean 763.8
Std Dev 0

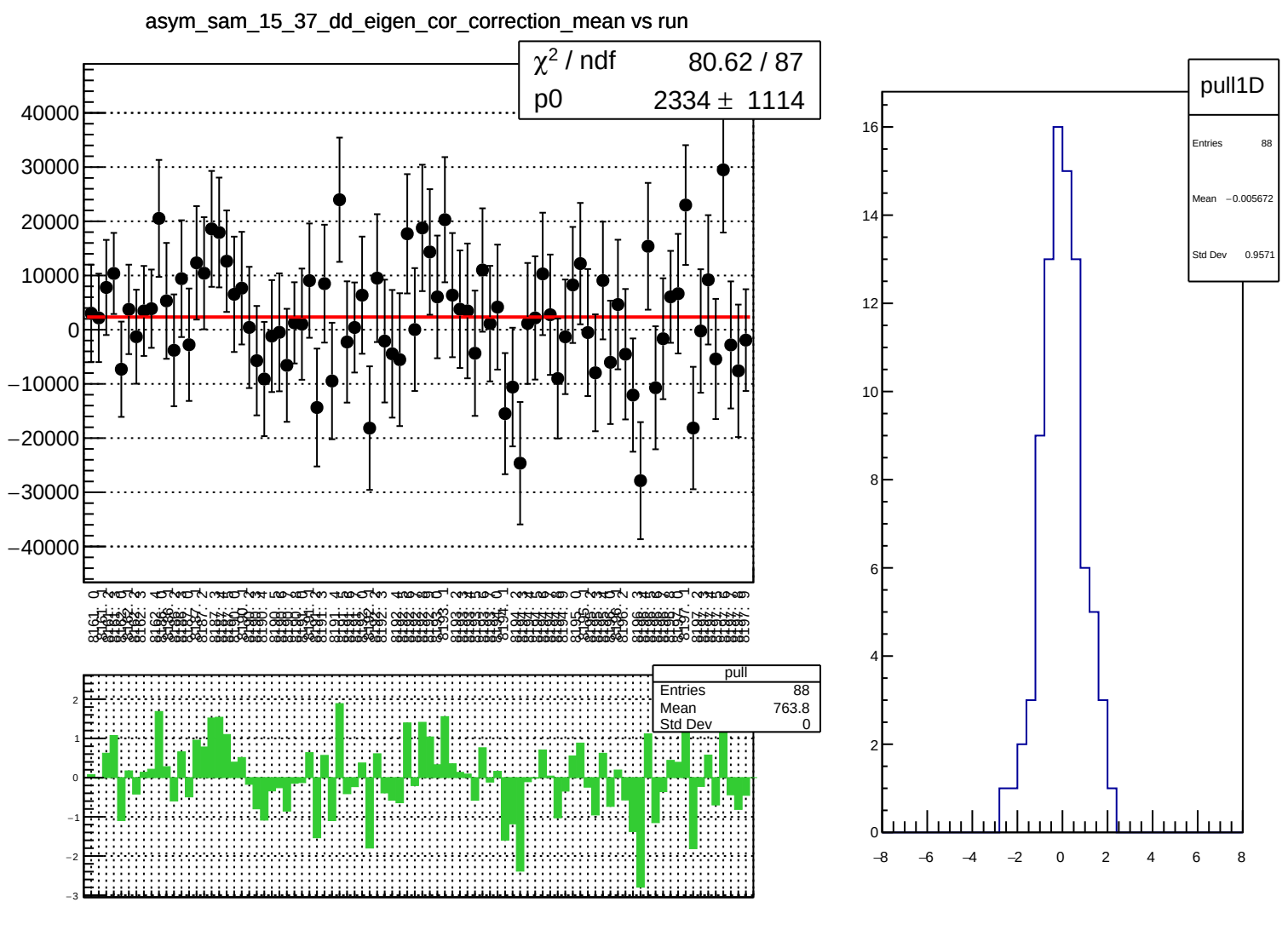

pull1D
Entries 88
Mean −0.005672
Std Dev 0.9571

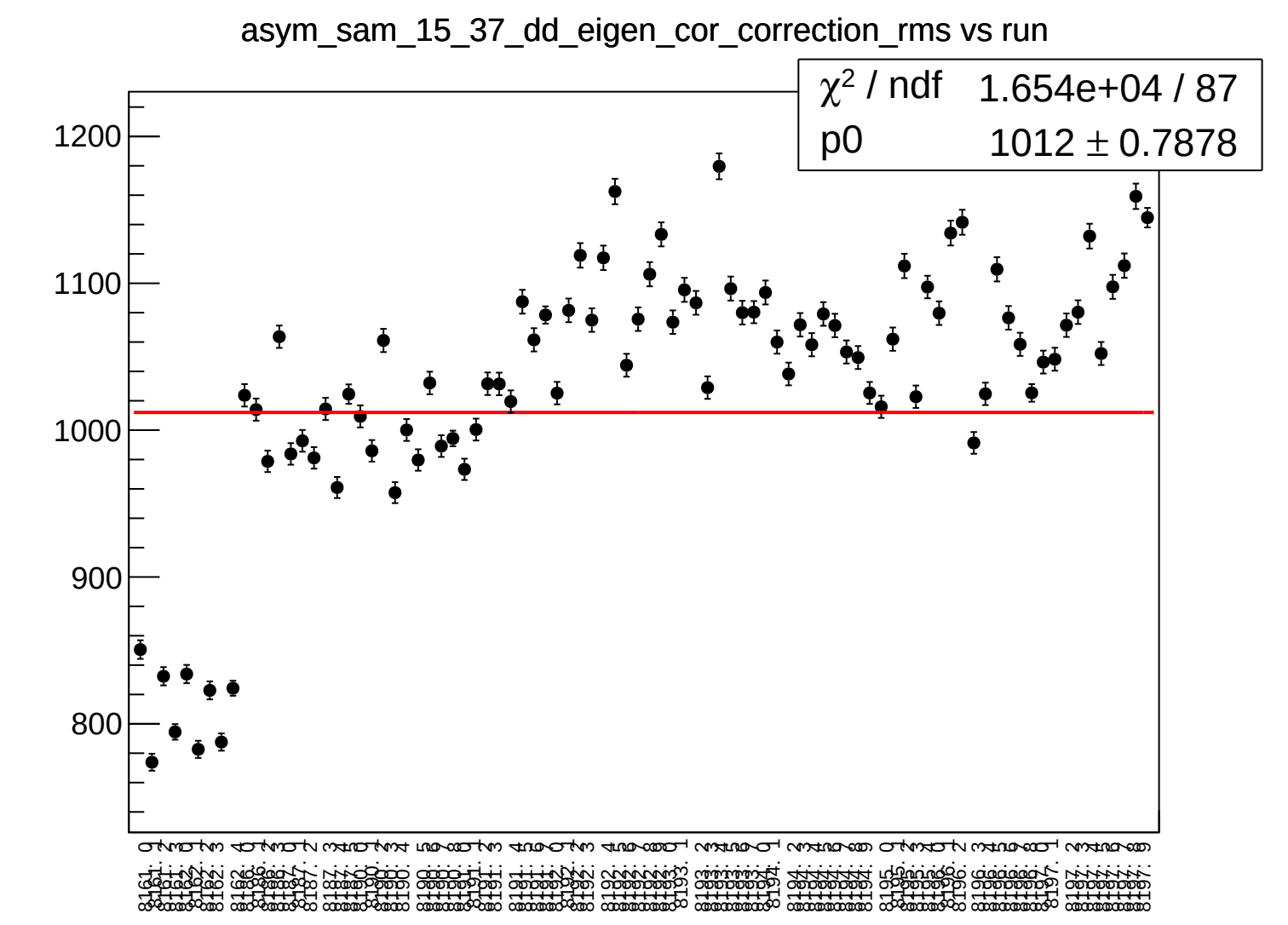

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.654e+04 / 87
p0 1012 ± 0.7878
1200
1100
1000
900
800

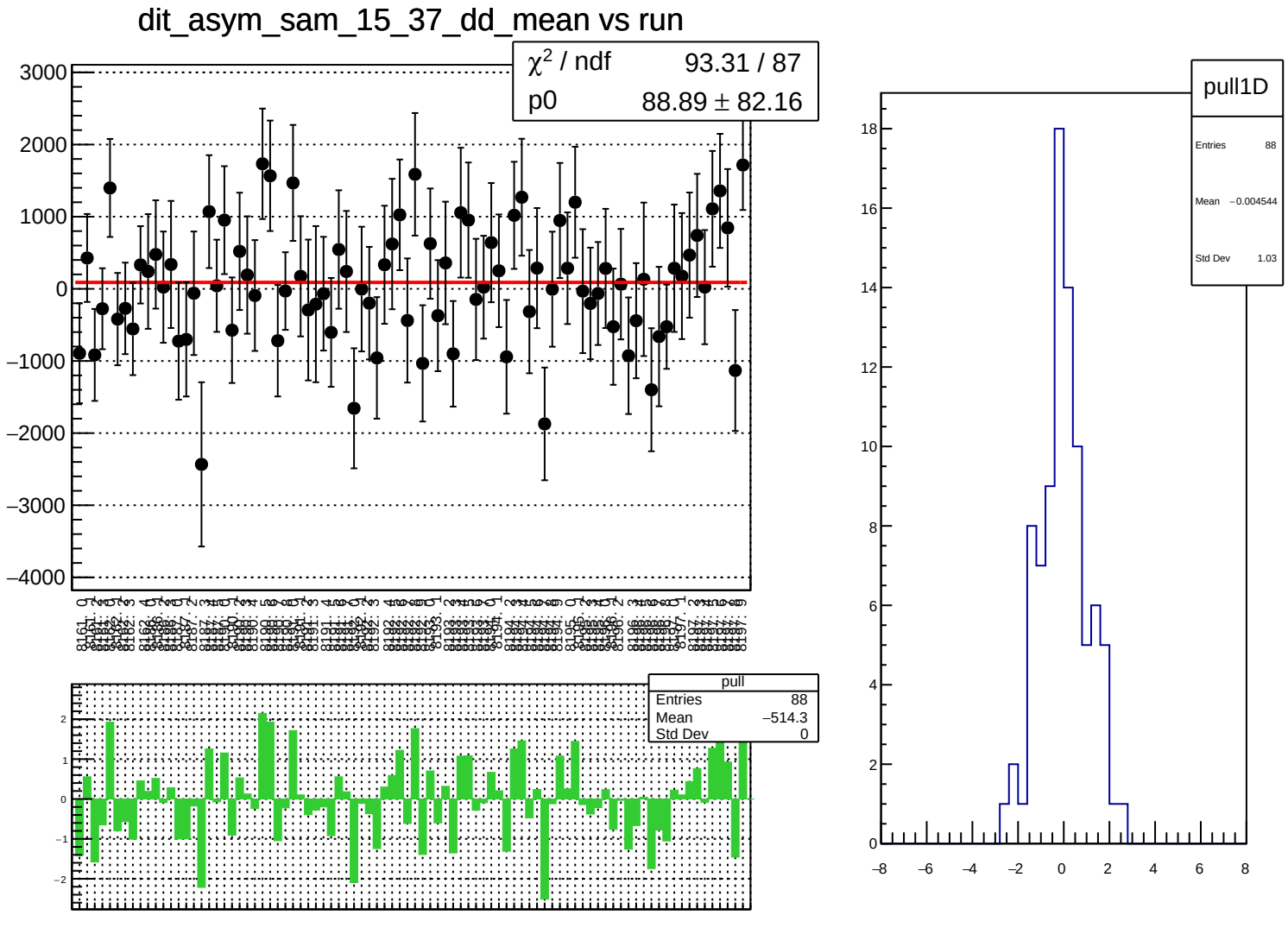

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.19 / 87
p0 129.5 ± 78.36
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −7.86
Std Dev 0
2
1
0
−1
−2

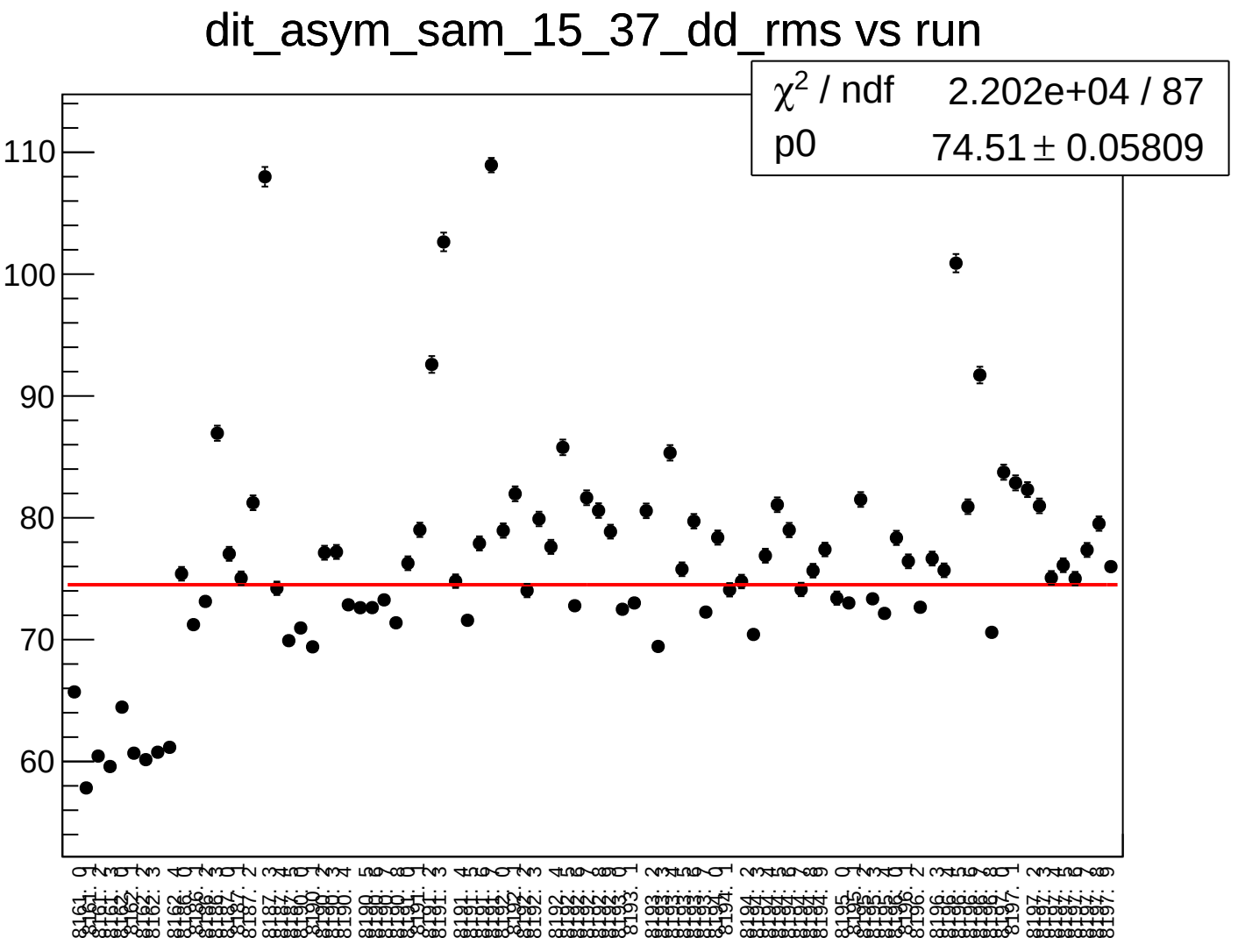

pull1D
Entries 88
Mean −0.01278
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

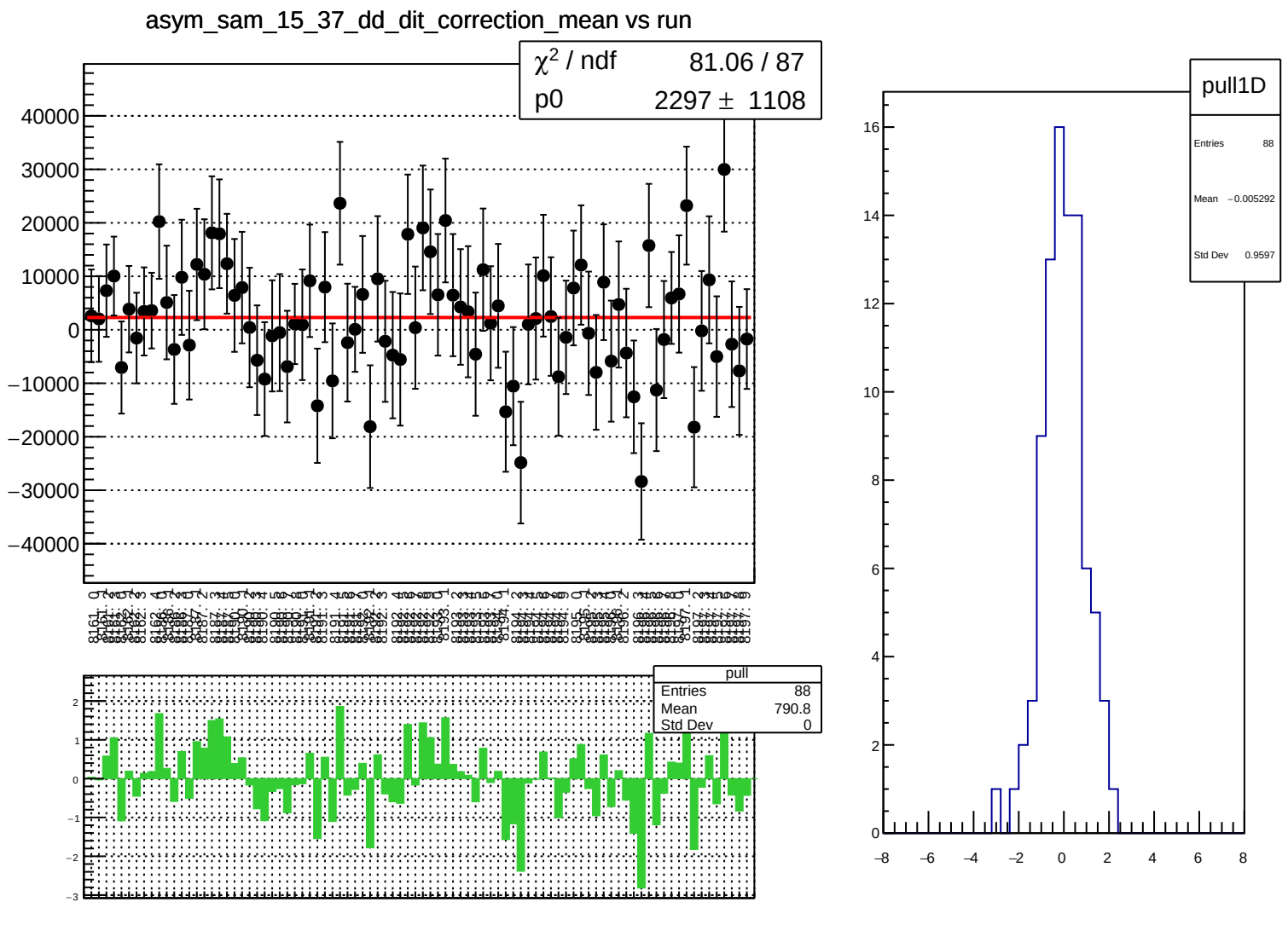

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.383e+04 / 87
p0 71.03 ± 0.05541
110
100
90
80
70
60
50

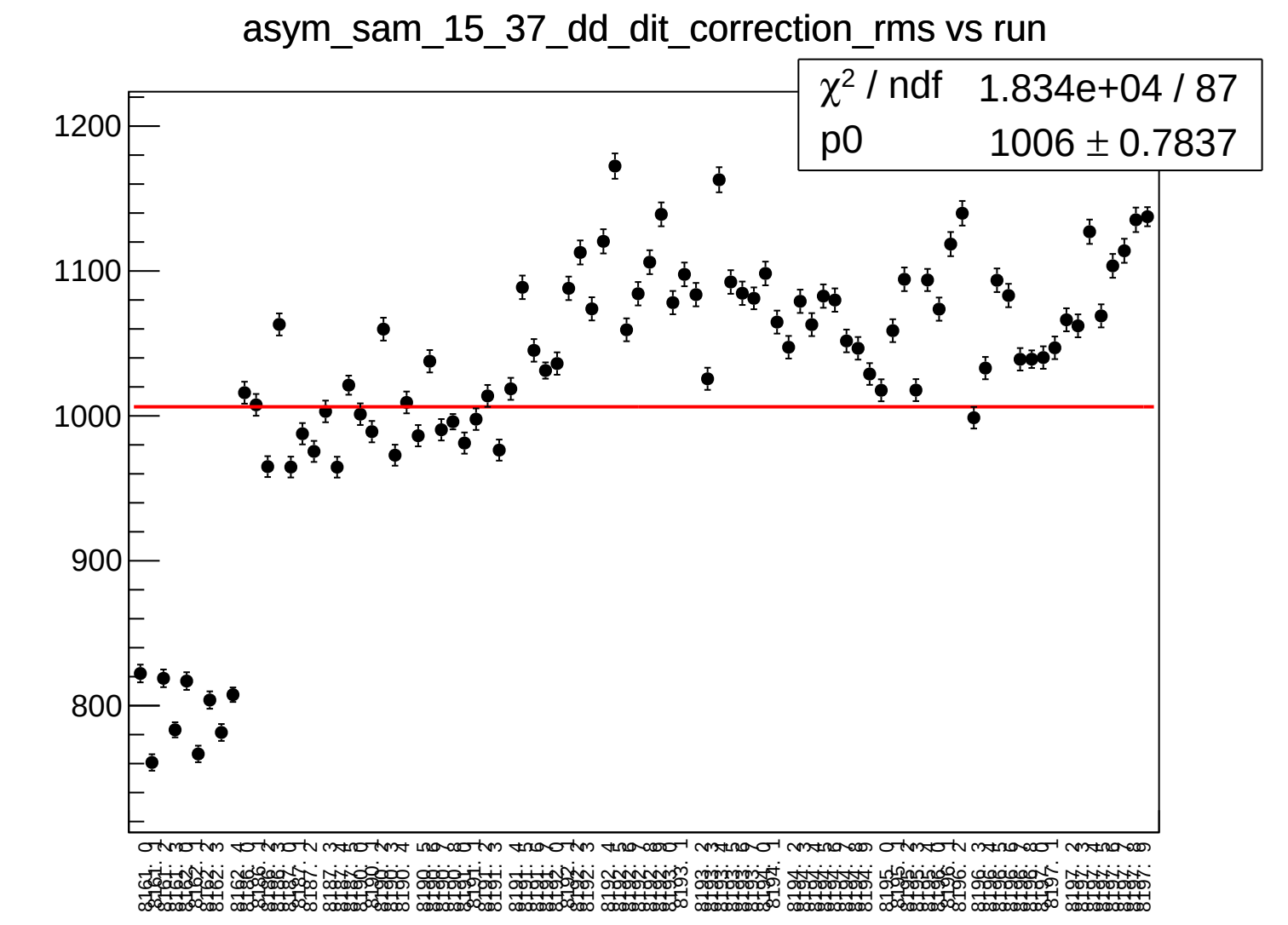

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.62 / 87
p0 2334 ± 1114
pull
Entries 88
Mean 763.8
Std Dev 0
pull1D
Entries 88
Mean −0.005672
Std Dev 0.9571

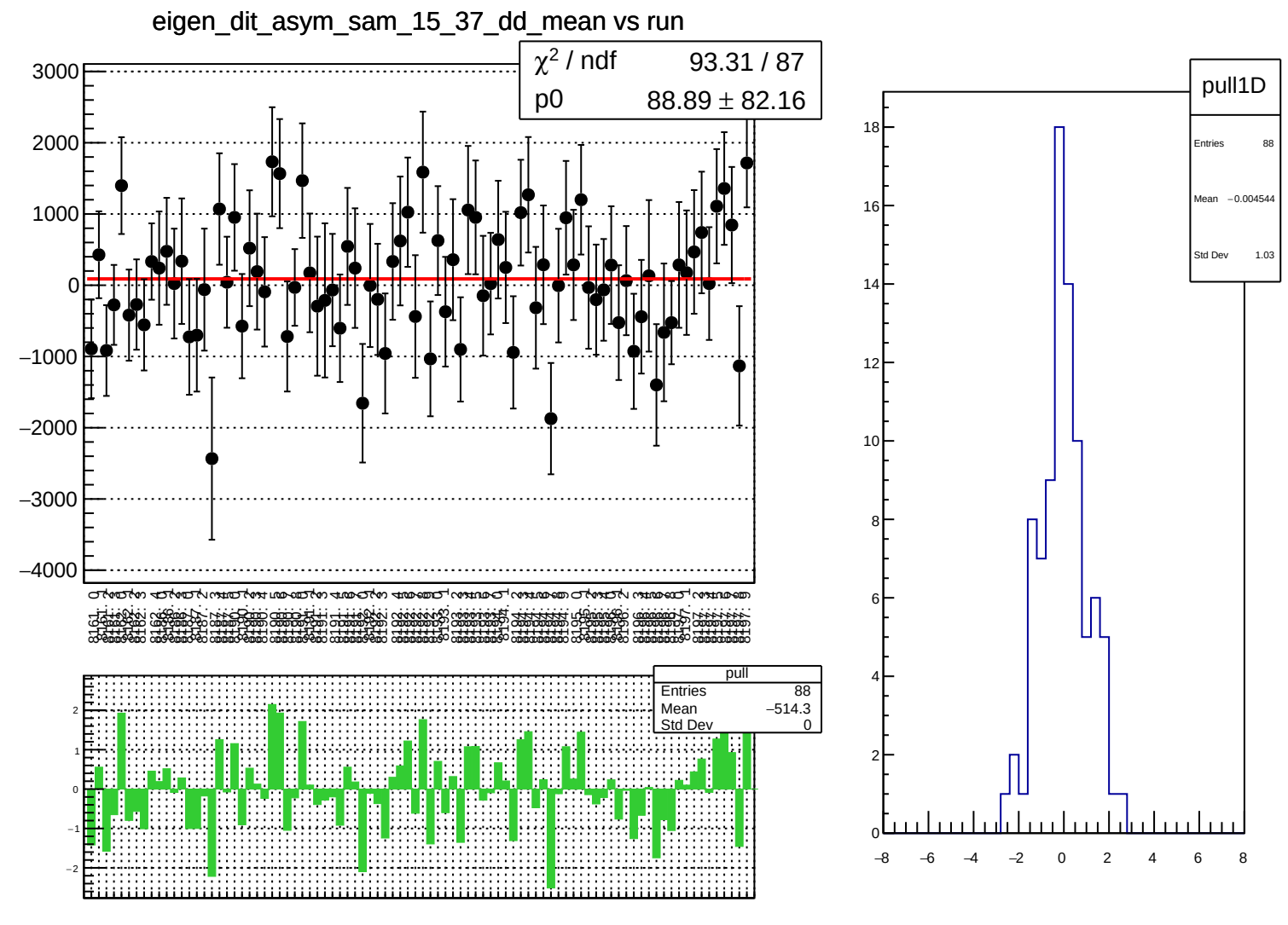

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.654e+04 / 87
p0 1012 ± 0.7878
1200
1100
1000
900
800

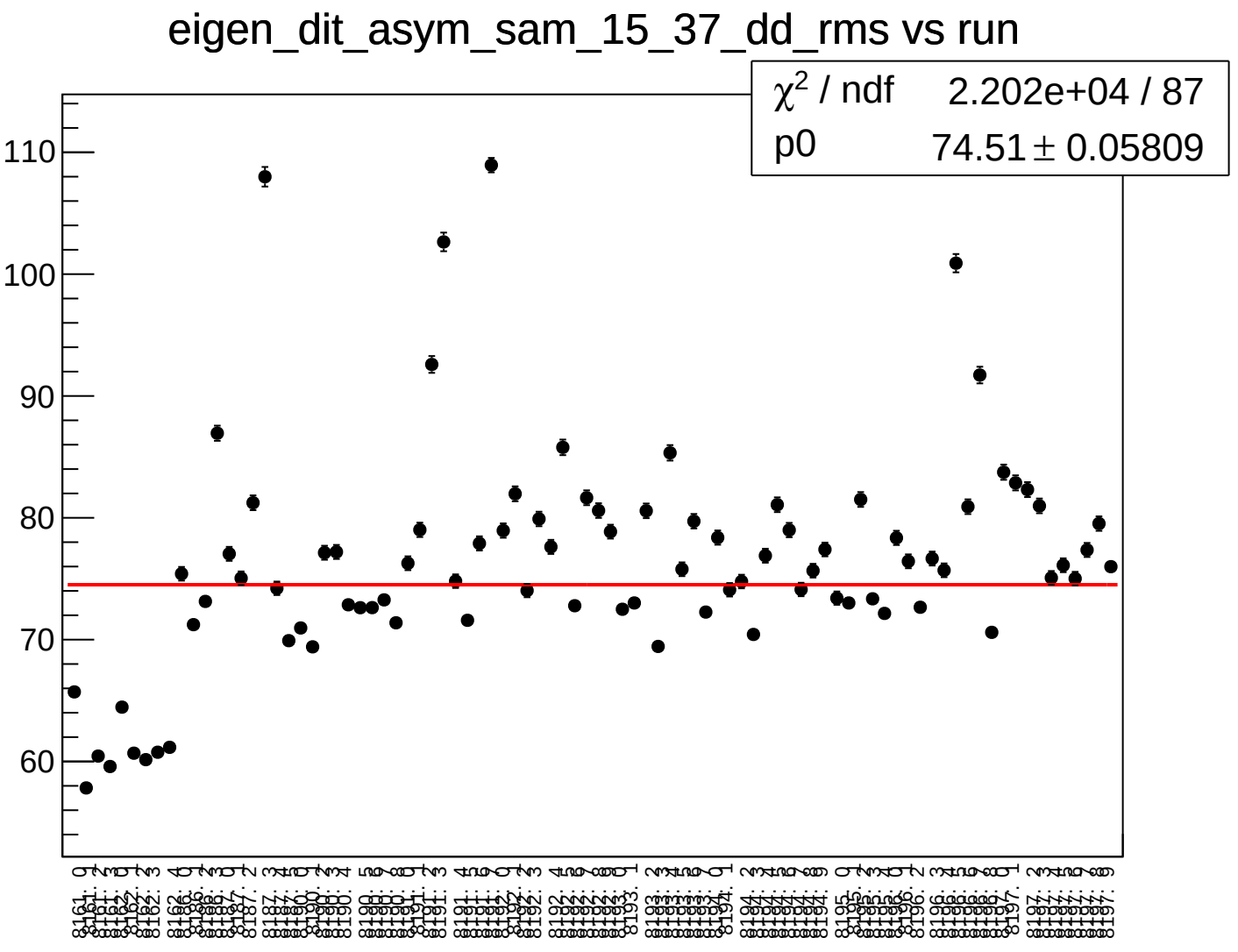

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.31 / 87
p0 88.89 ± 82.16
pull
Entries 88
Mean −514.3
Std Dev 0
pull1D
Entries 88
Mean −0.004544
Std Dev 1.03

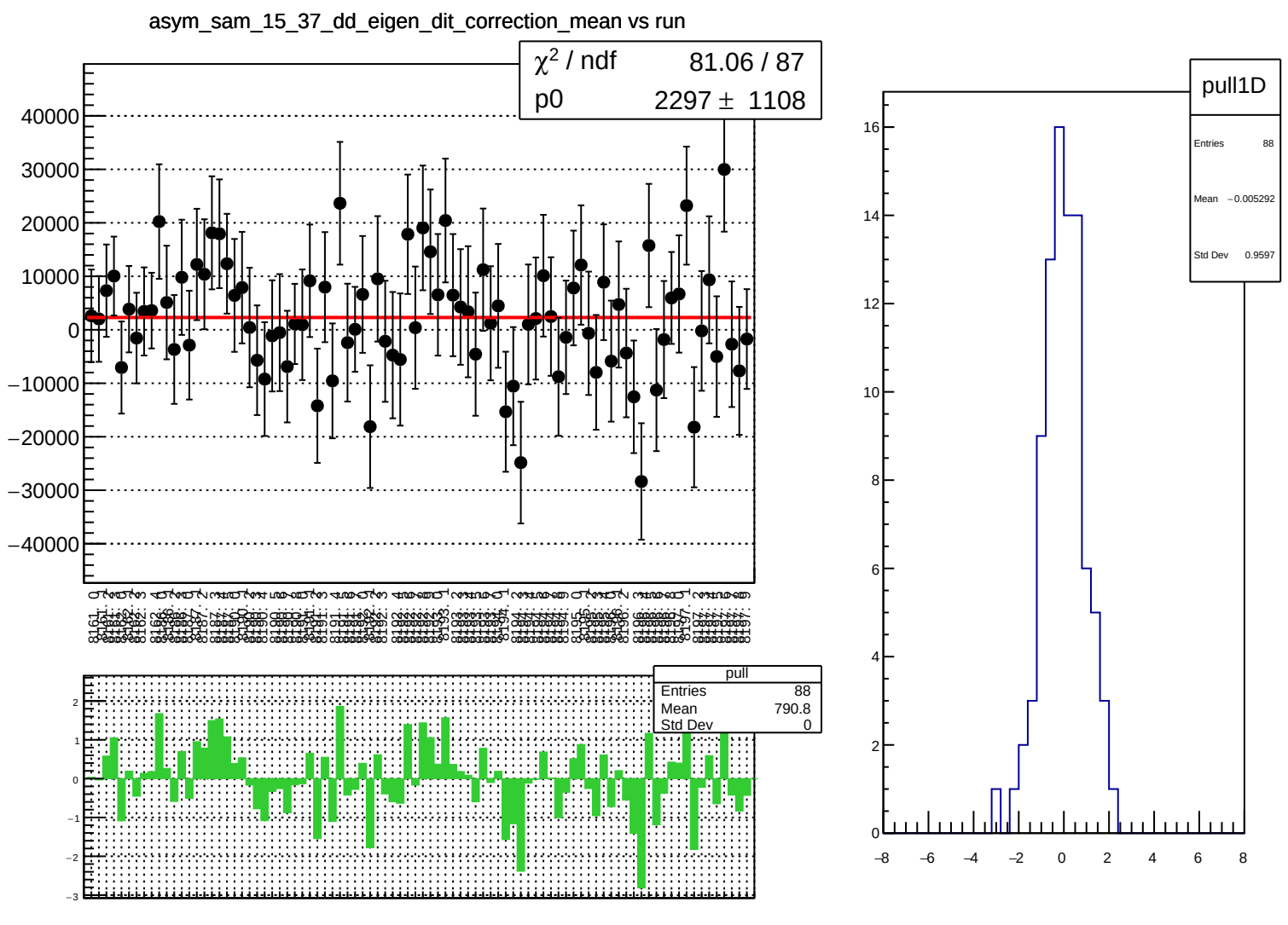

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.202e+04 / 87
p0 74.51 ± 0.05809
110
100
90
80
70
60

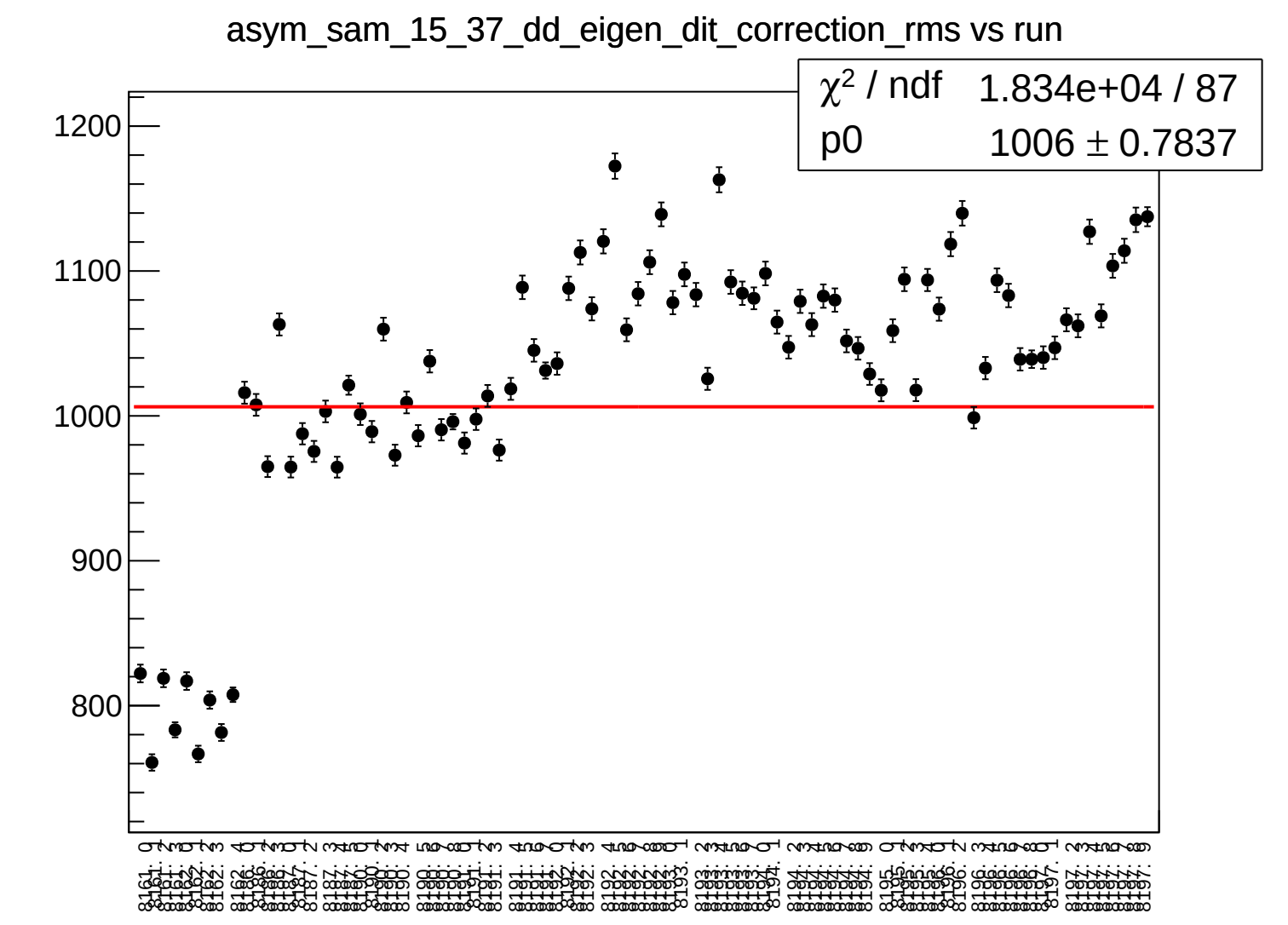

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 81.06 / 87
p0 2297 ± 1108
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 790.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.005292
Std Dev 0.9597
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

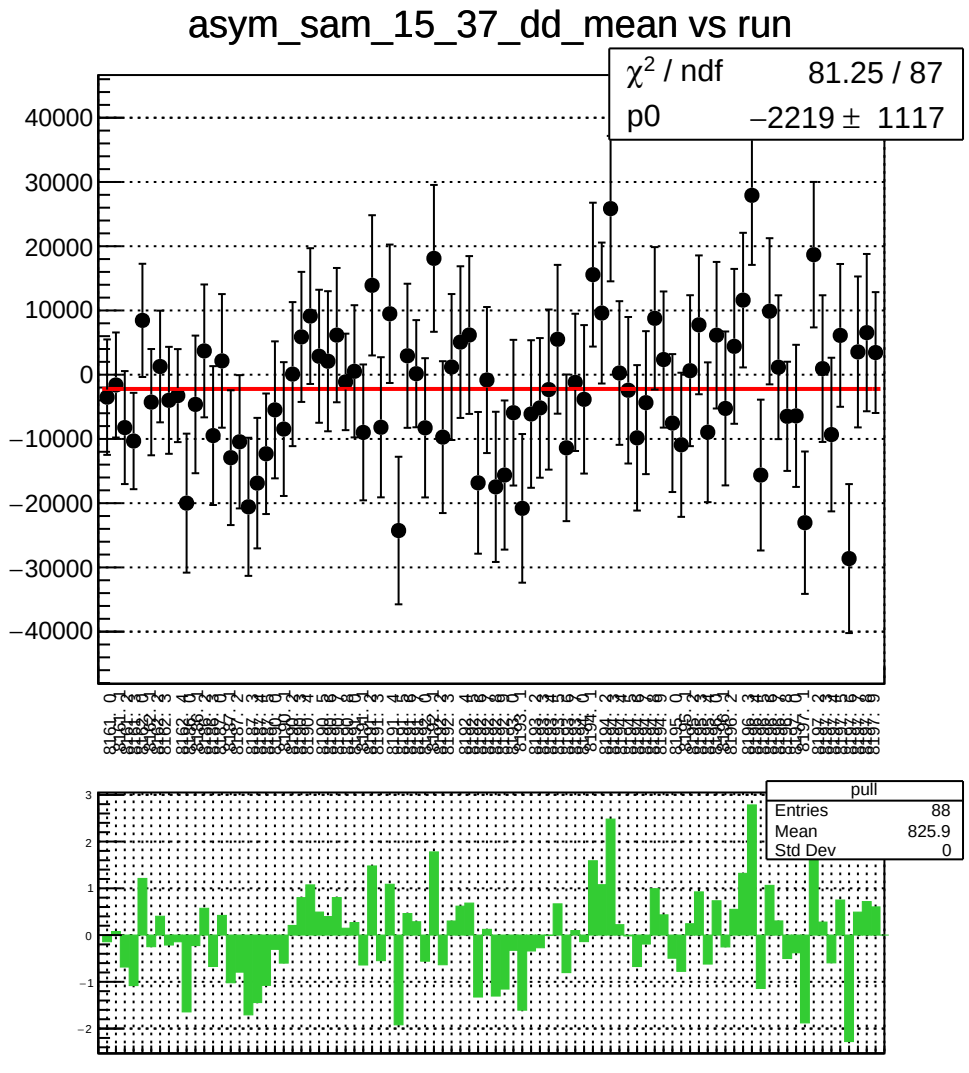

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.834e+04 / 87
p0 1006 ± 0.7837
1200
1100
1000
900
800

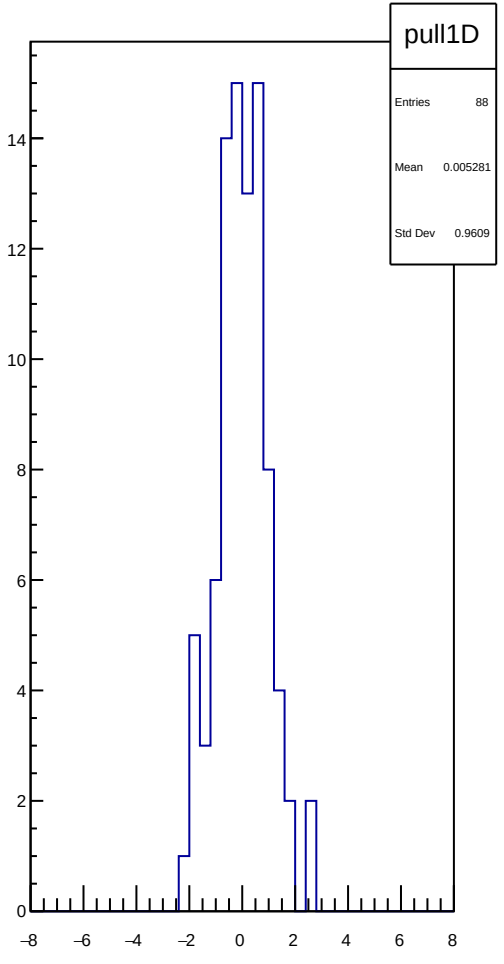

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.31 / 87
p0 88.89 ± 82.16
pull
Entries 88
Mean −514.3
Std Dev 0
pull1D
Entries 88
Mean −0.004544
Std Dev 1.03

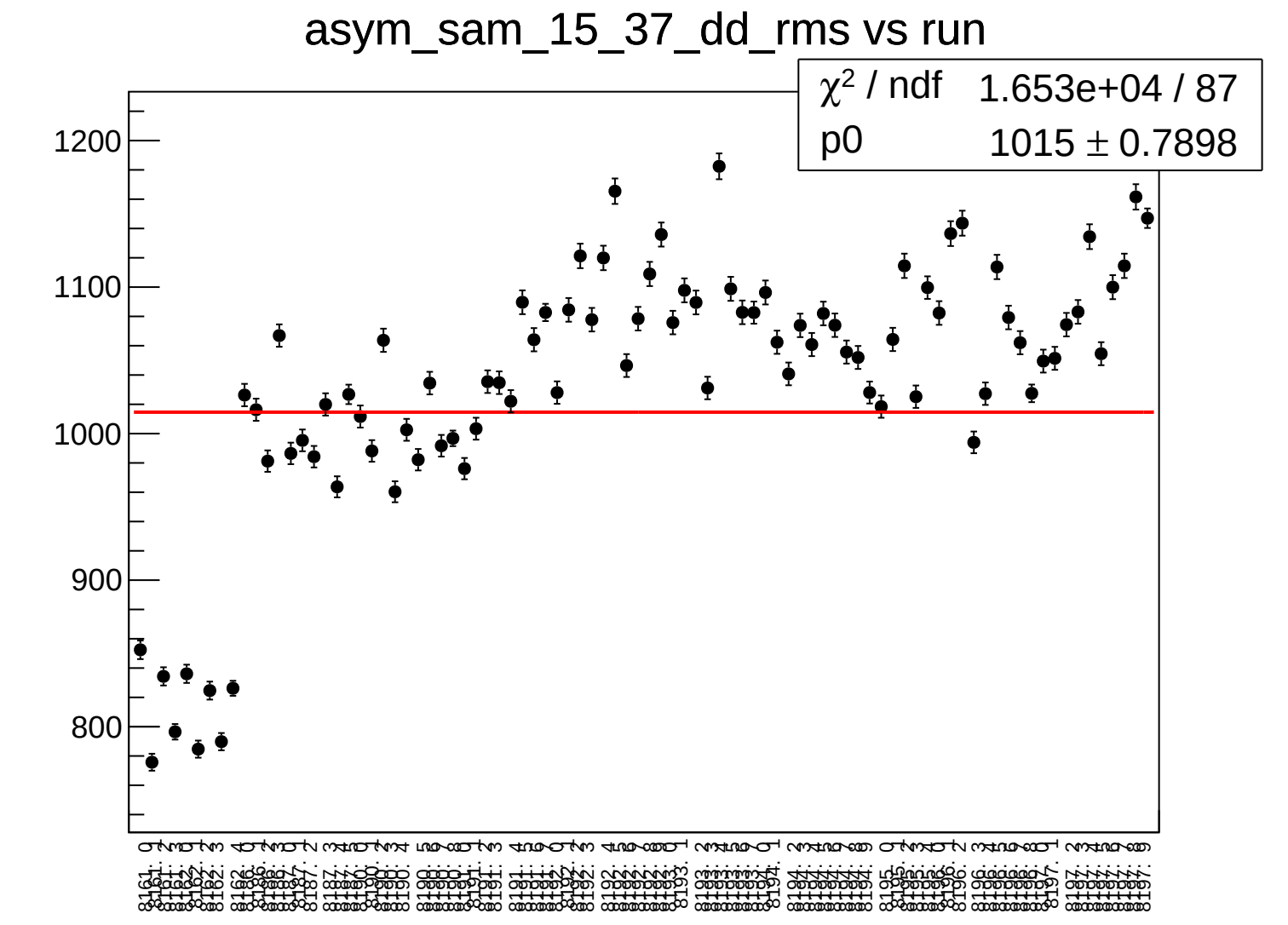

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.202e+04 / 87
p0 74.51 ± 0.05809
110
100
90
80
70
60

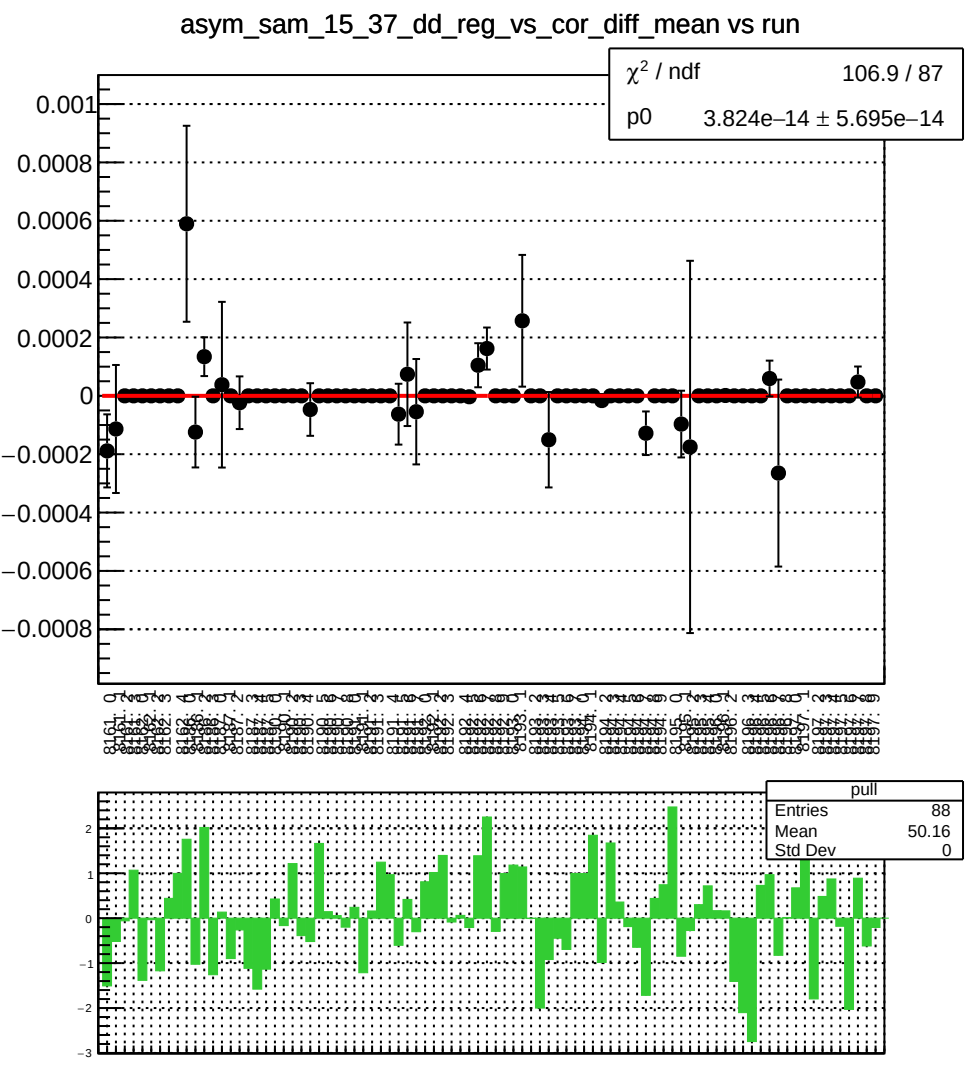

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.06 / 87
p0 2297 ± 1108
pull
Entries 88
Mean 790.8
Std Dev 0
pull1D
Entries 88
Mean −0.005292
Std Dev 0.9597

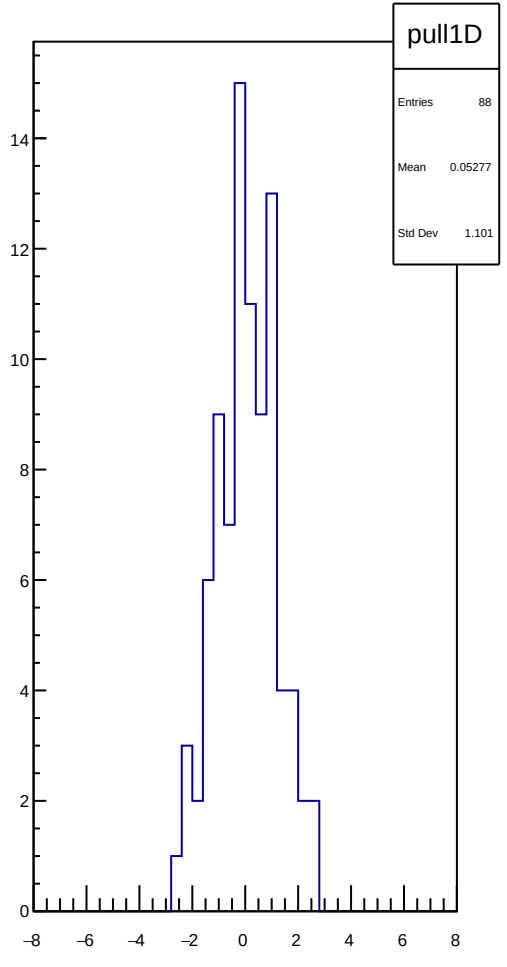

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.834e+04 / 87
p0 1006 ± 0.7837
1200
1100
1000
900
800

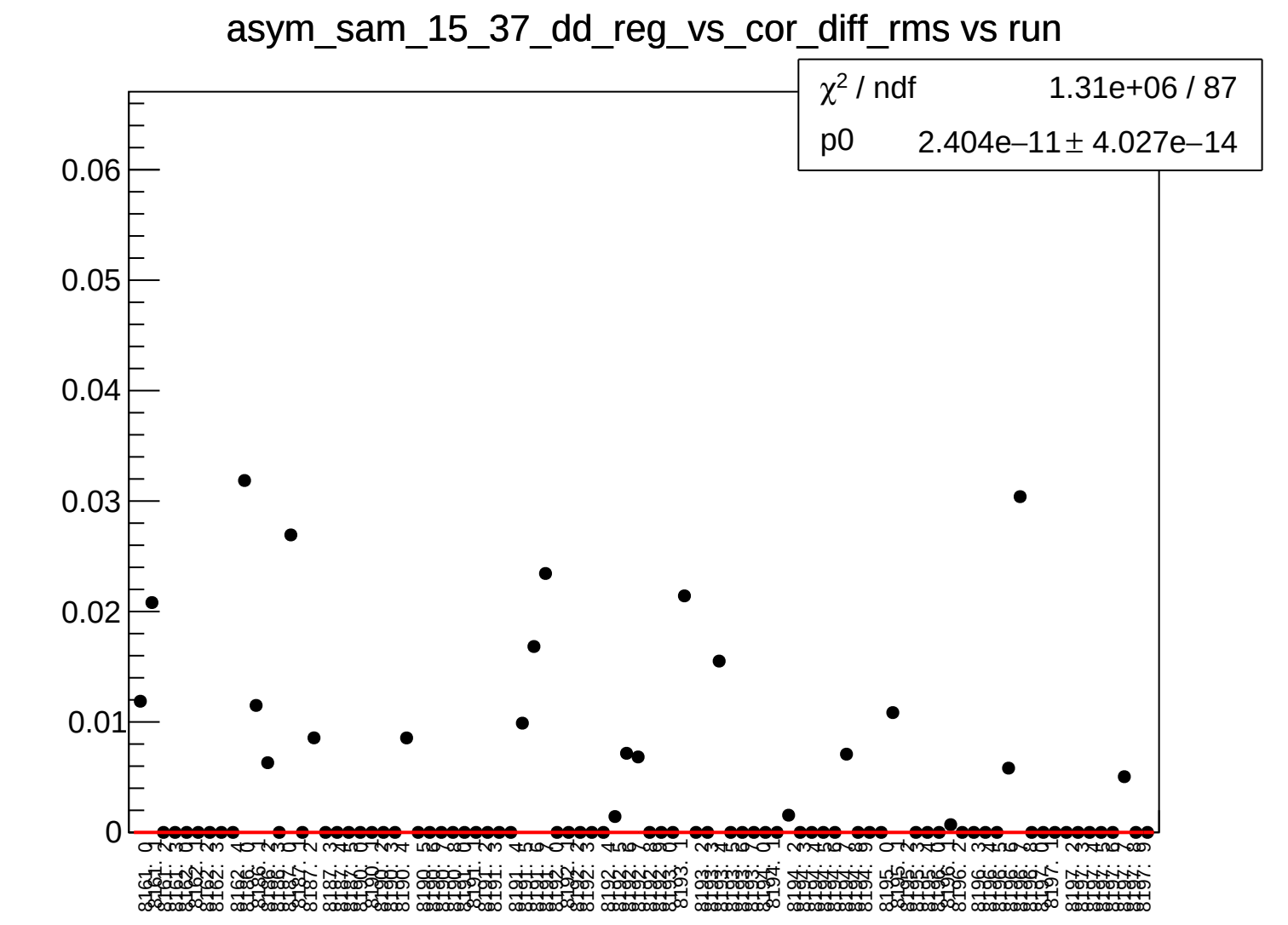

asym_sam_15_37_dd_mean vs run
χ² / ndf 81.25 / 87
p0 −2219 ± 1117
pull
Entries 88
Mean 825.9
Std Dev 0

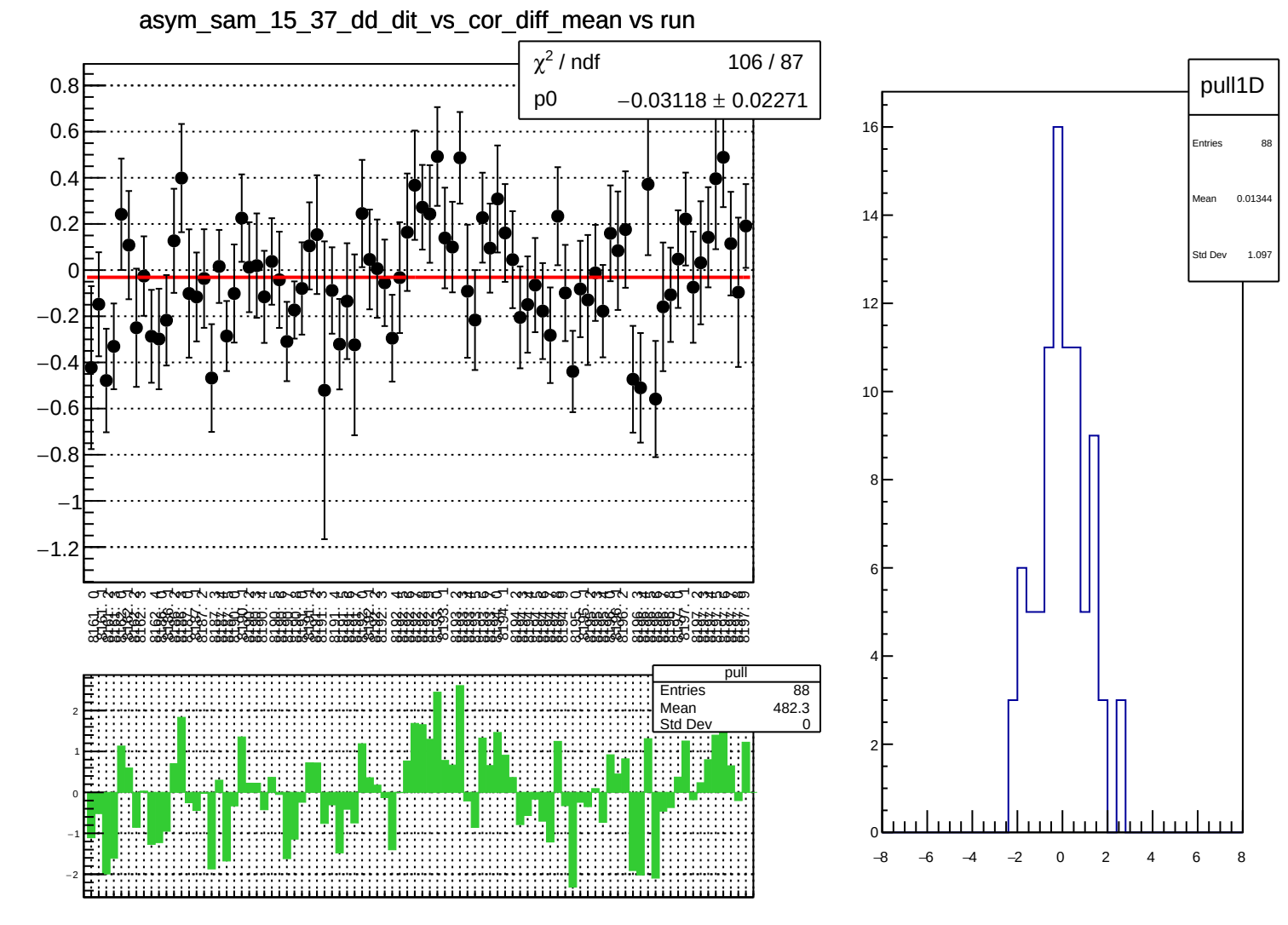

pull1D
Entries 88
Mean 0.005281
Std Dev 0.9609

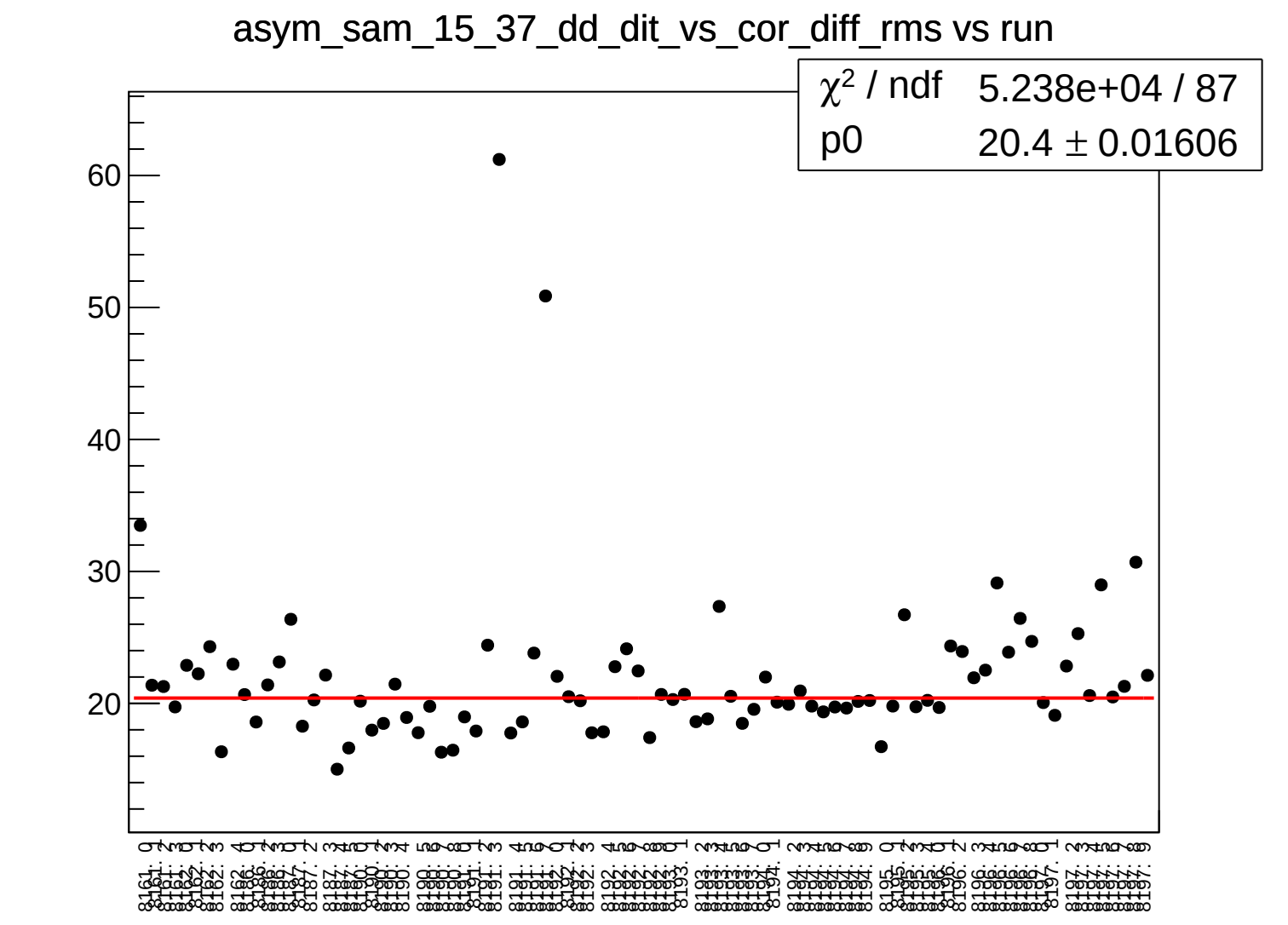

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.653e+04 / 87
p0 1015 ± 0.7898
1200
1100
1000
900
800

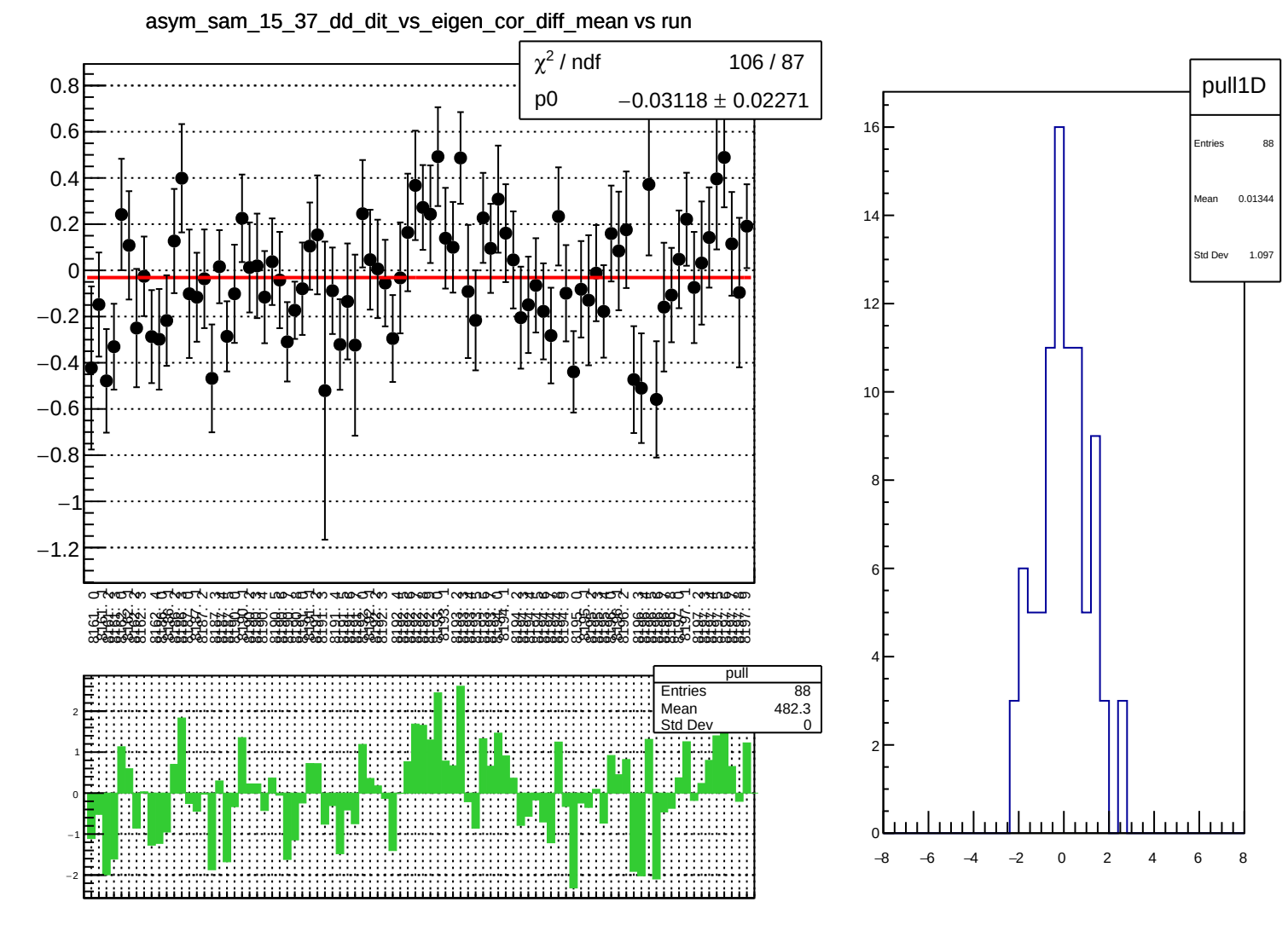

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 87
p0 3.824e−14 ± 5.695e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 88
Mean 50.16
Std Dev 0
2
1
0
−1
−2
−3

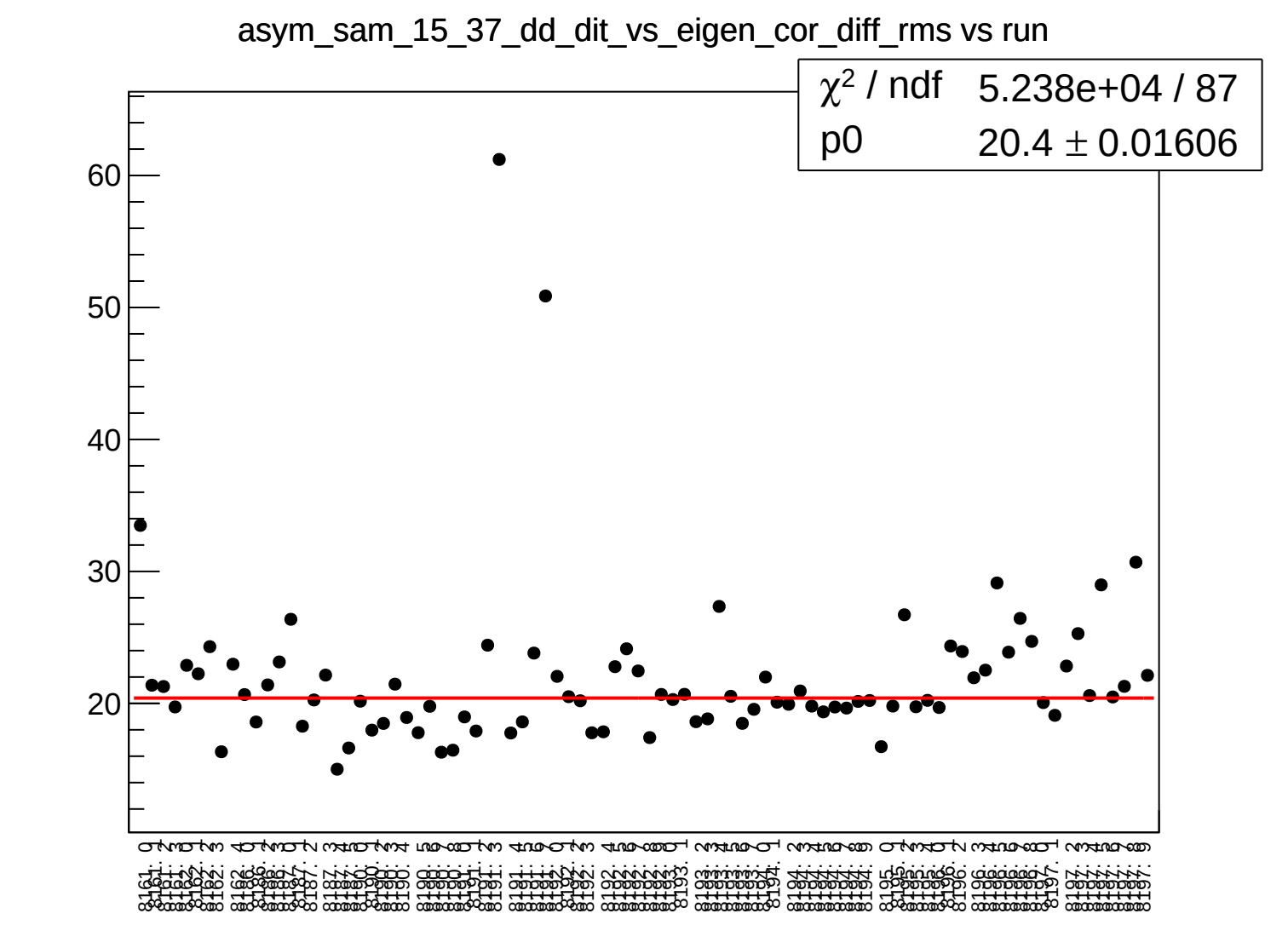

pull1D
Entries 88
Mean 0.05277
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

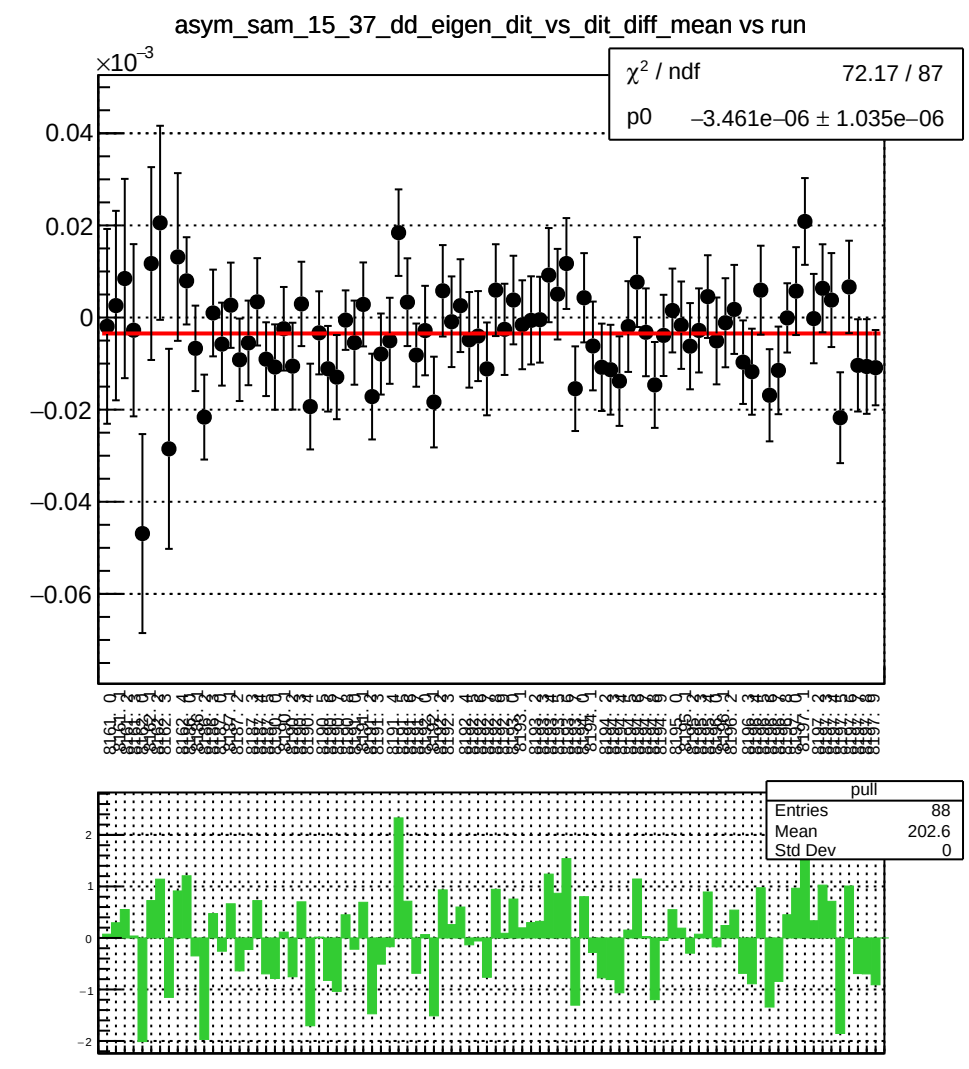

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.31e+06 / 87
p0 2.404e−11 ± 4.027e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

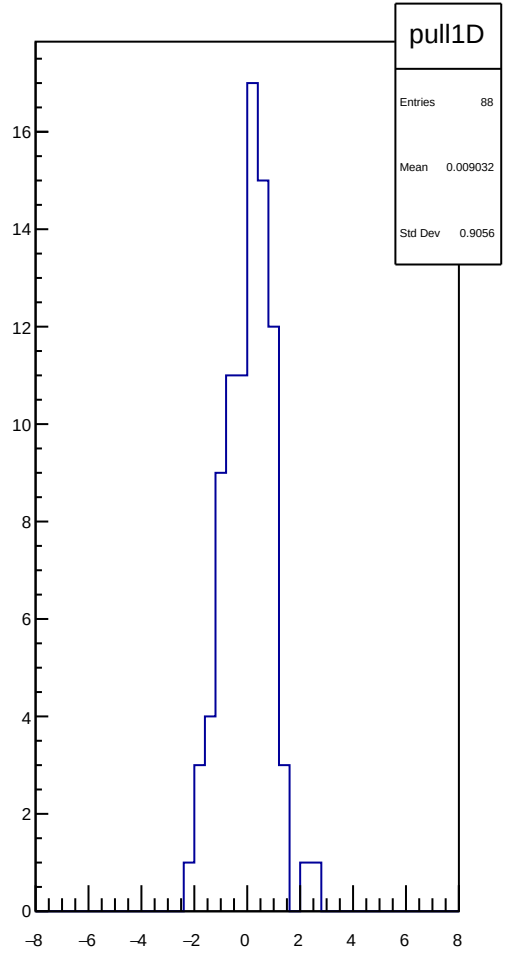

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.03118 ± 0.02271
pull
Entries 88
Mean 482.3
Std Dev 0
pull1D
Entries 88
Mean 0.01344
Std Dev 1.097

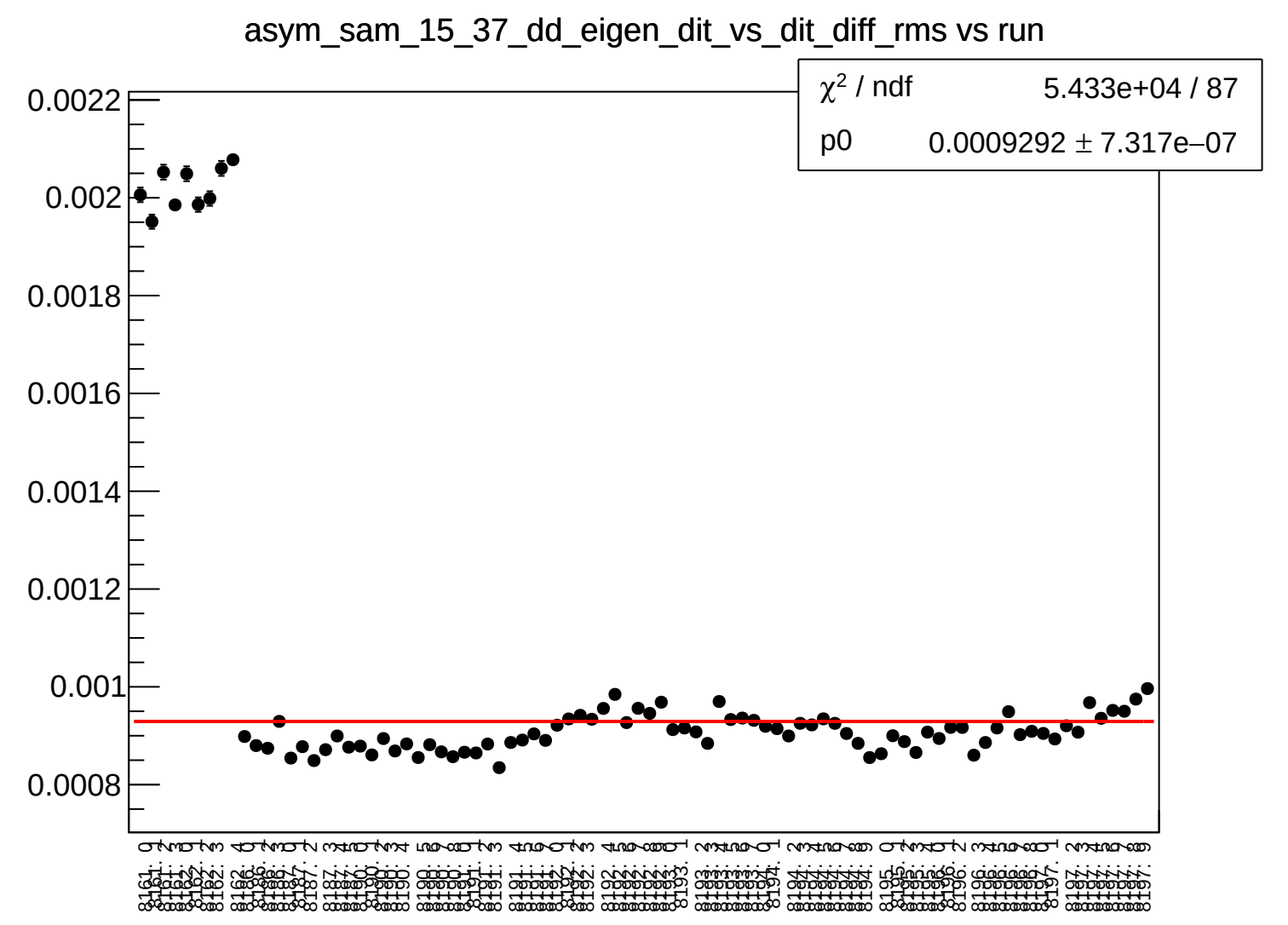

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.238e+04 / 87
p0 20.4 ± 0.01606
60
50
40
30
20

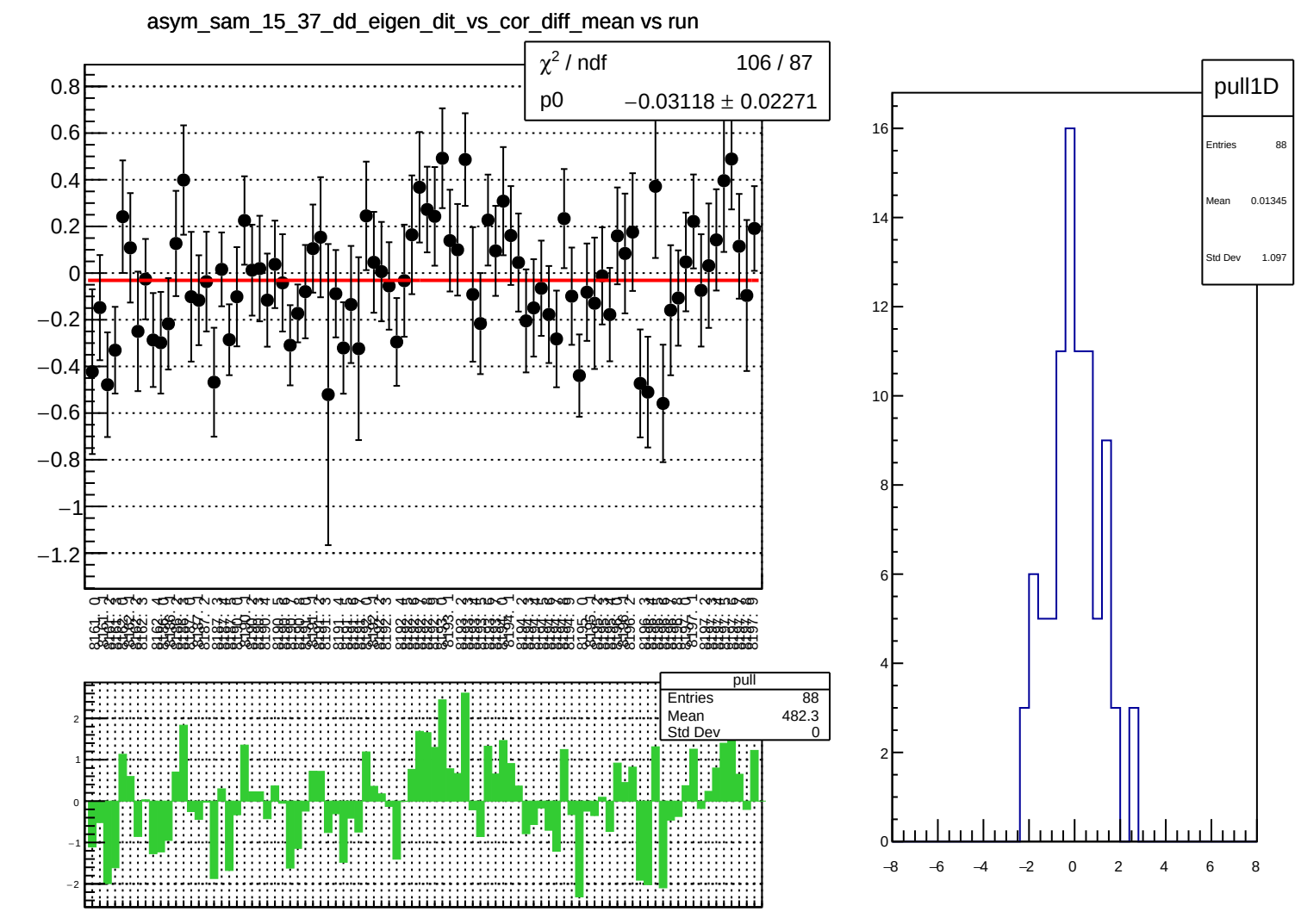

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.03118 ± 0.02271
pull
Entries 88
Mean 482.3
Std Dev 0
pull1D
Entries 88
Mean 0.01344
Std Dev 1.097

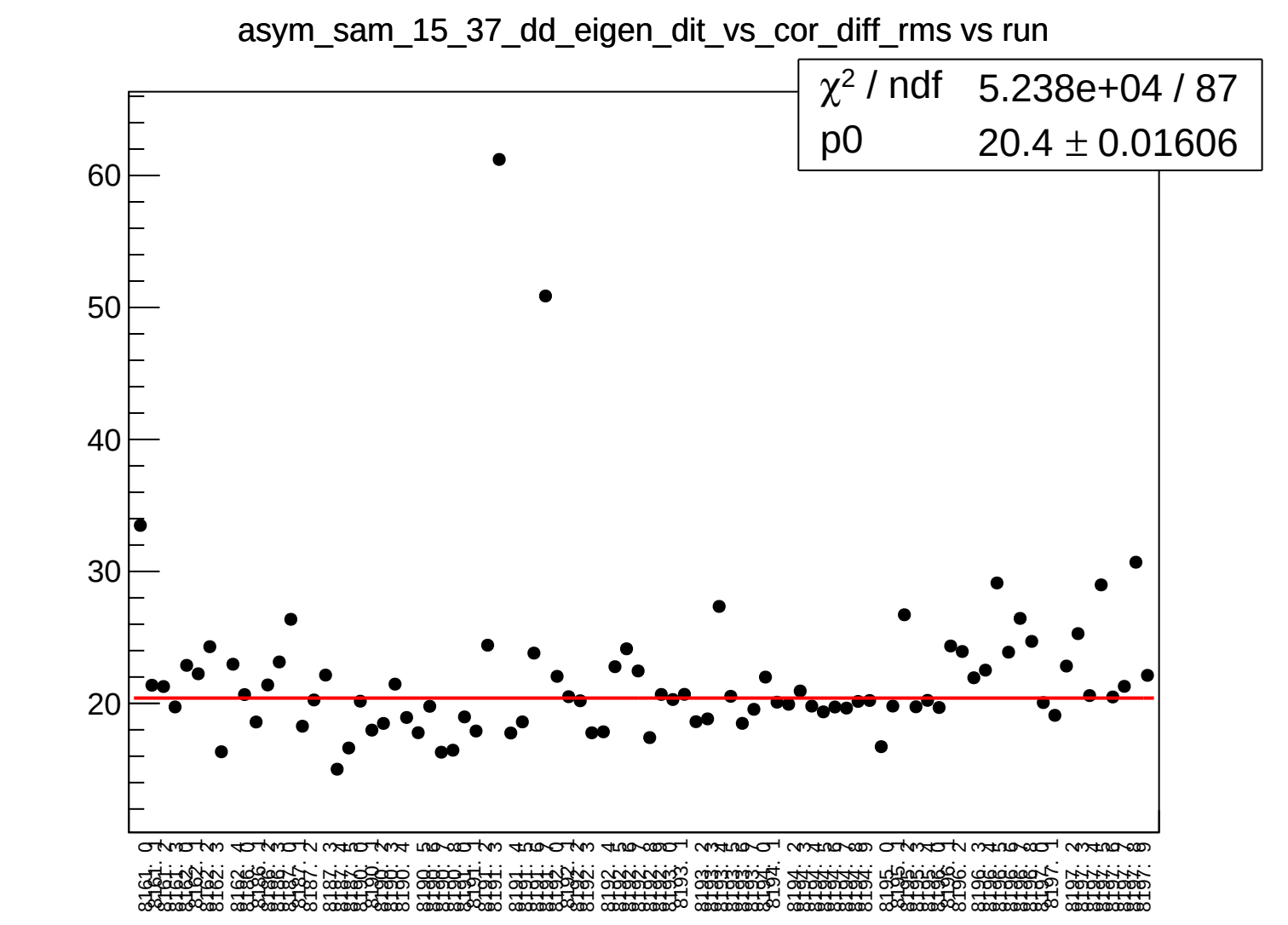

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.238e+04 / 87
p0 20.4 ± 0.01606
60
50
40
30
20

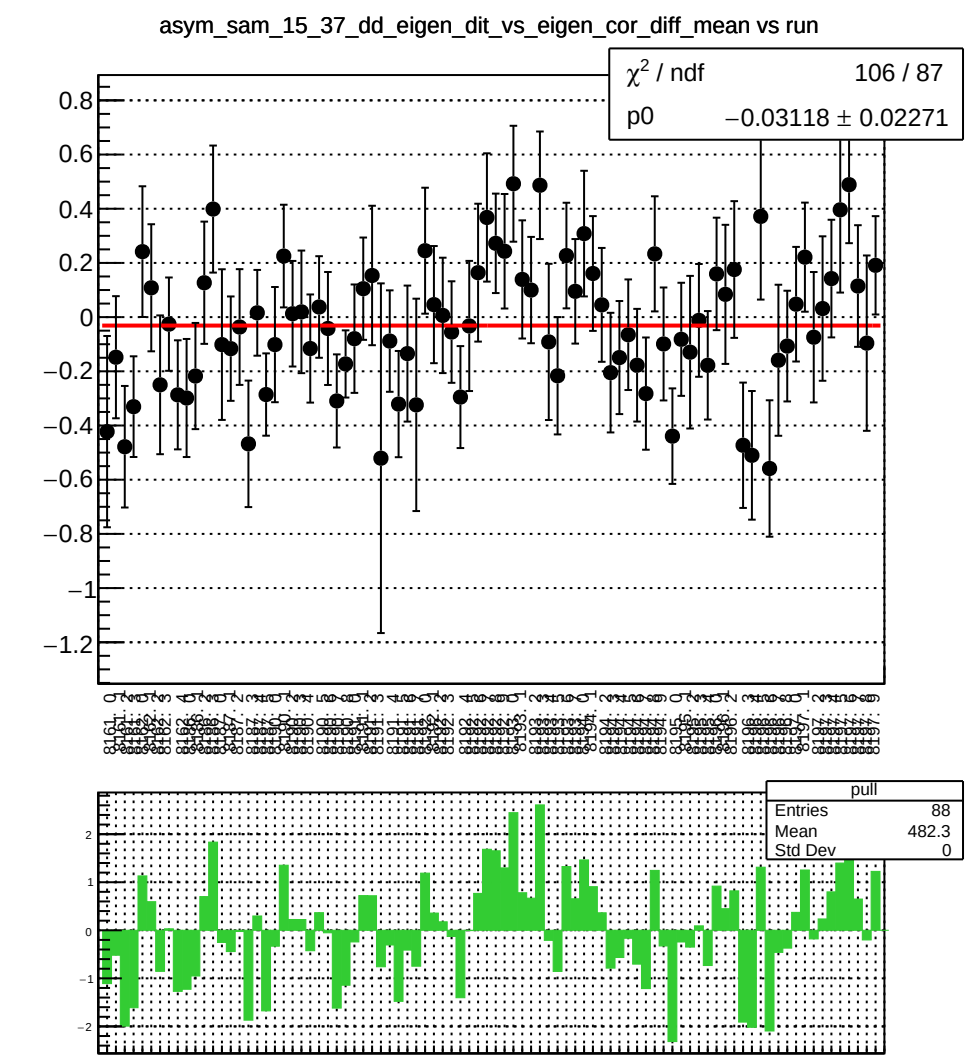

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.17 / 87
p0 −3.461e−06 ± 1.035e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 202.6
Std Dev 0
2
1
0
−1
−2

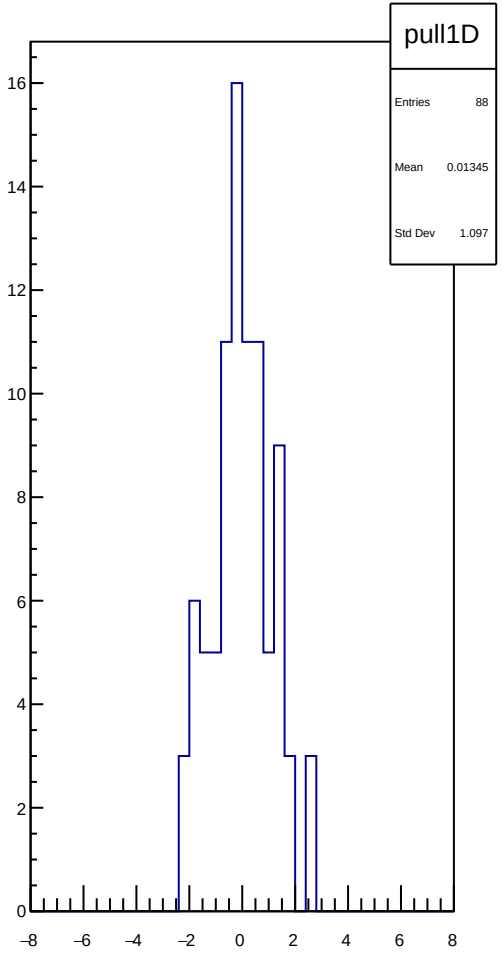

pull1D
Entries 88
Mean 0.009032
Std Dev 0.9056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

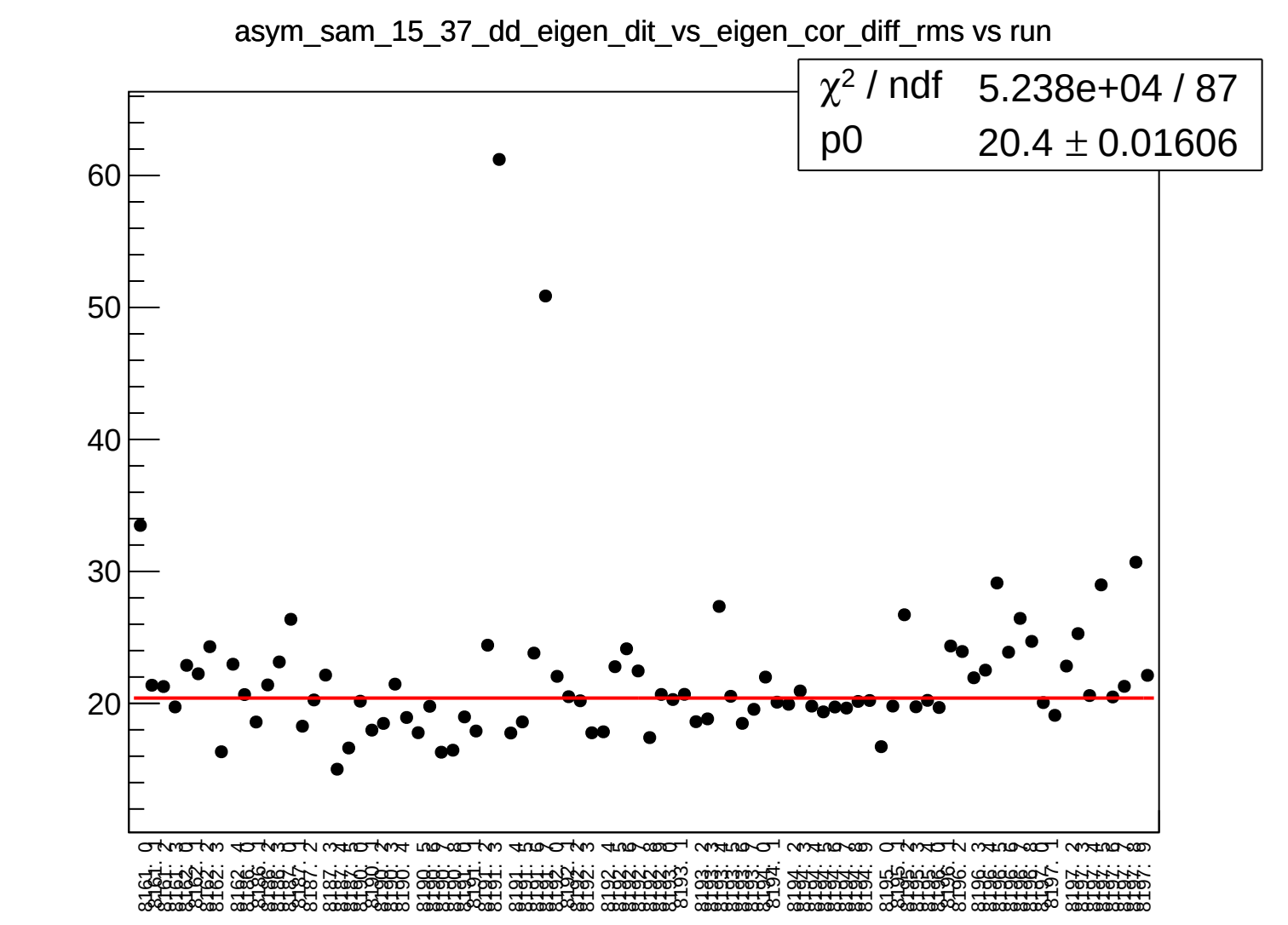

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.433e+04 / 87
p0 0.0009292 ± 7.317e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

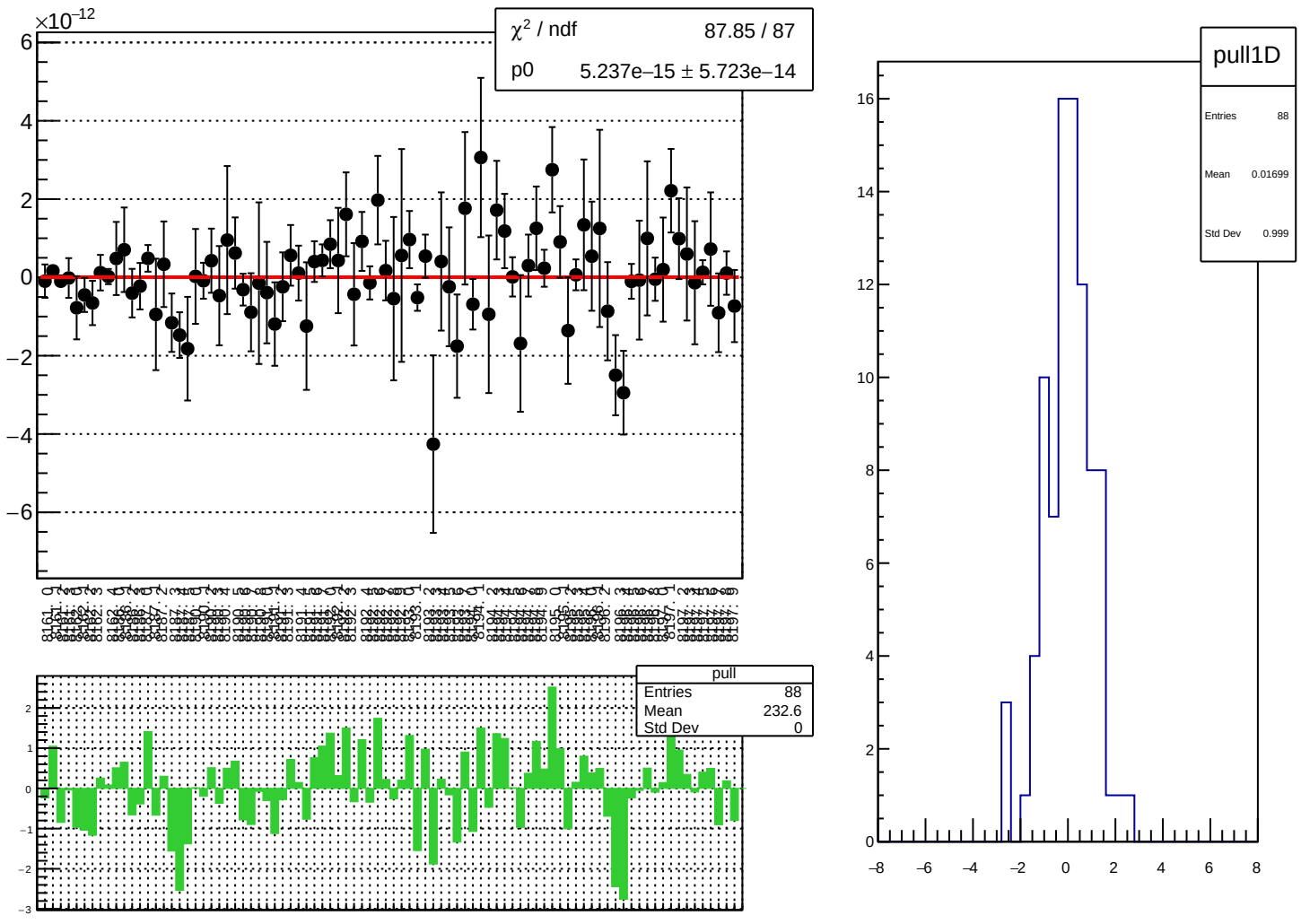

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.03118 ± 0.02271
pull
Entries 88
Mean 482.3
Std Dev 0
pull1D
Entries 88
Mean 0.01345
Std Dev 1.097

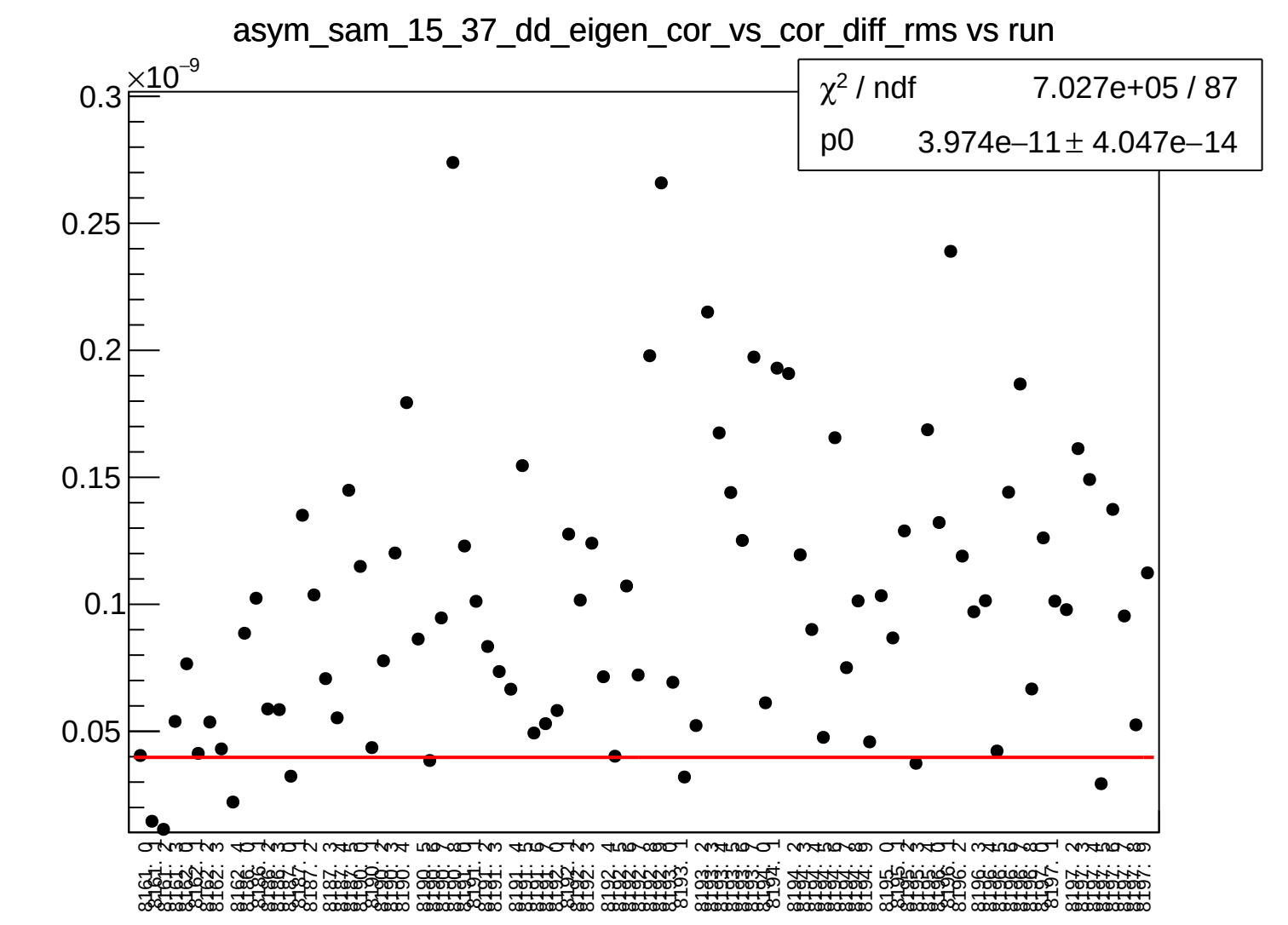

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.238e+04 / 87
p0 20.4 ± 0.01606
60
50
40
30
20

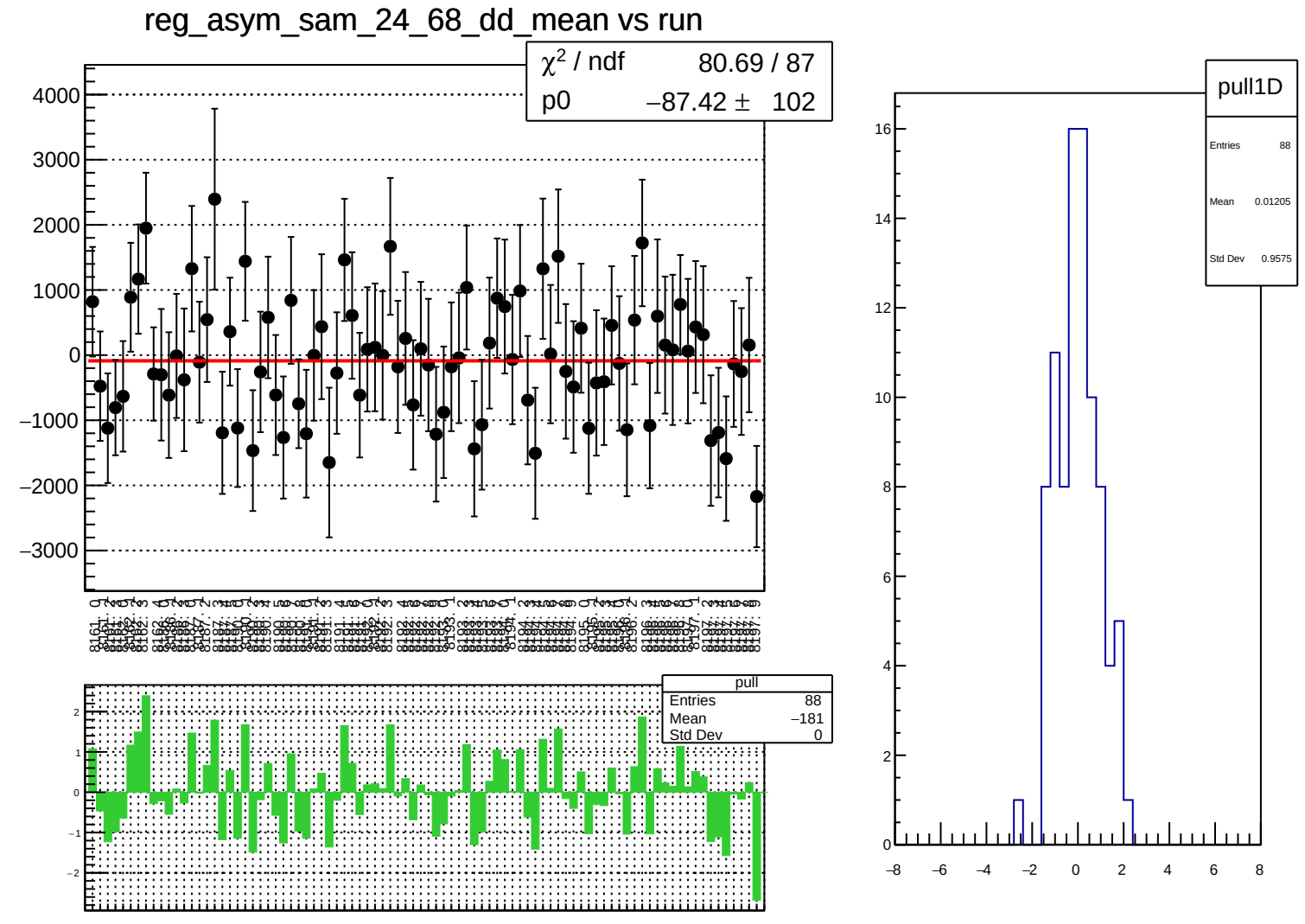

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.03118 ± 0.02271
pull
Entries 88
Mean 482.3
Std Dev 0

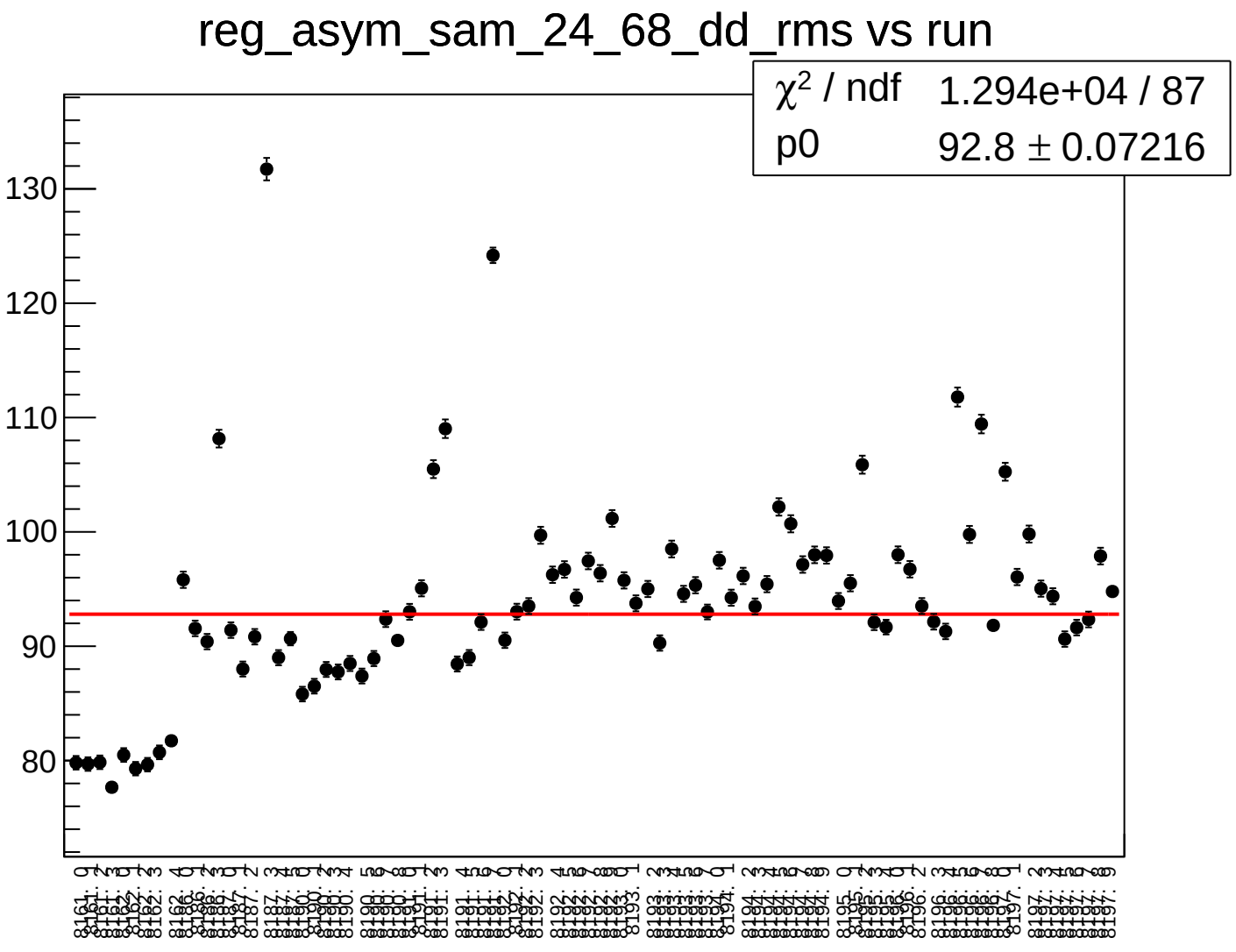

pull1D
Entries 88
Mean 0.01345
Std Dev 1.097

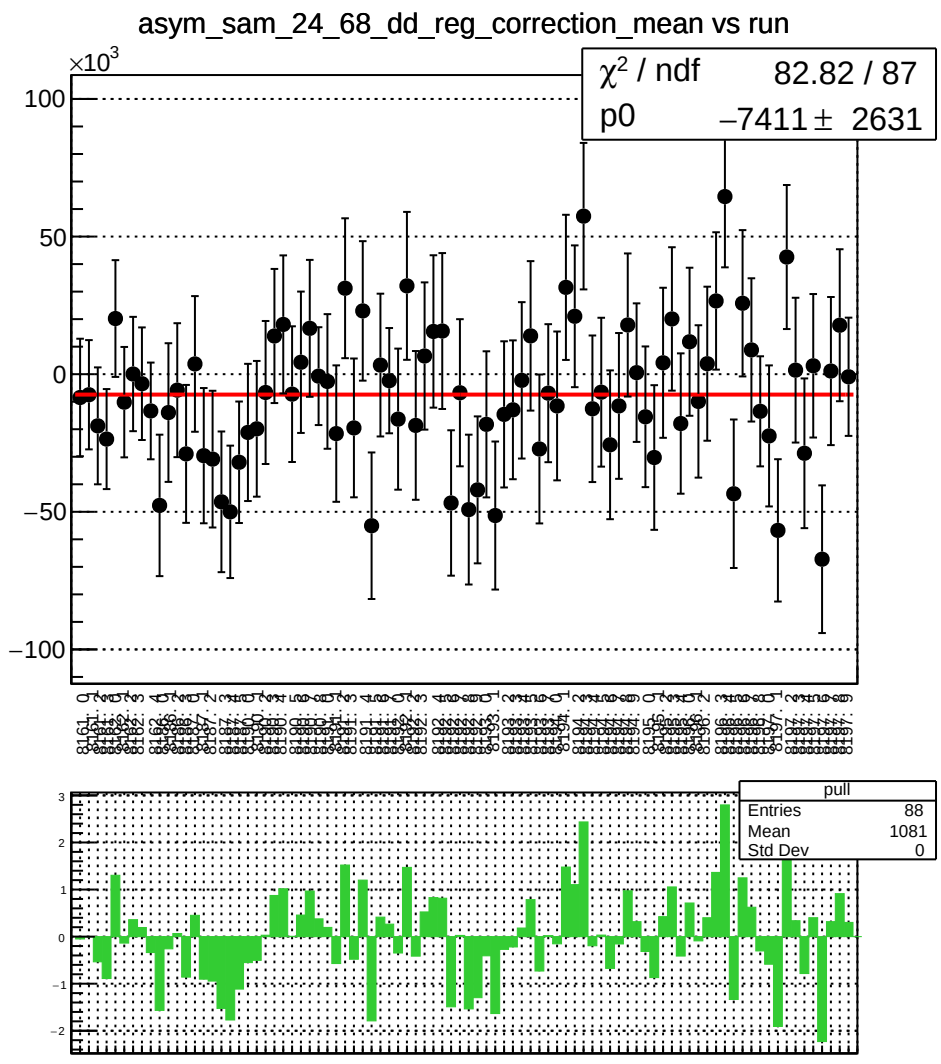

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.238e+04 / 87
p0 20.4 ± 0.01606
60
50
40
30
20

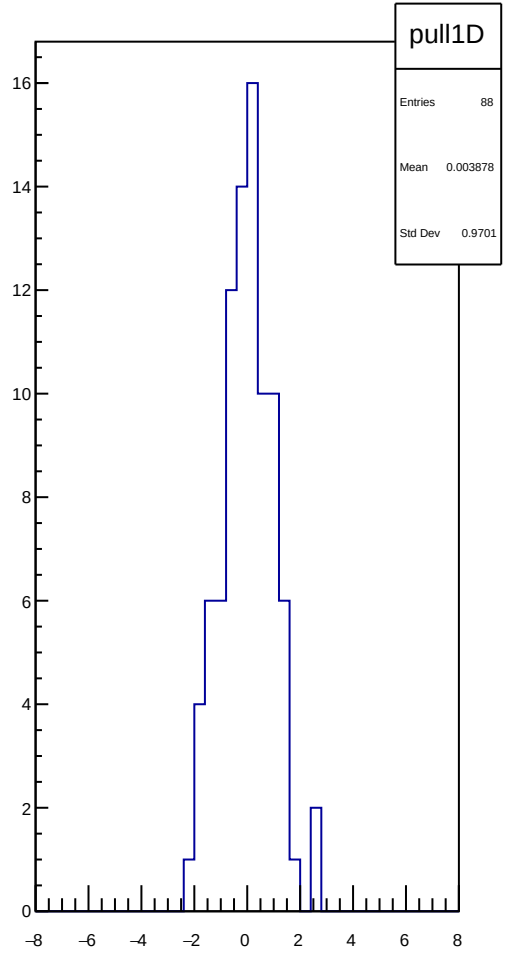

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.85 / 87
p0 5.237e−15 ± 5.723e−14
pull
Entries 88
Mean 232.6
Std Dev 0
pull1D
Entries 88
Mean 0.01699
Std Dev 0.999

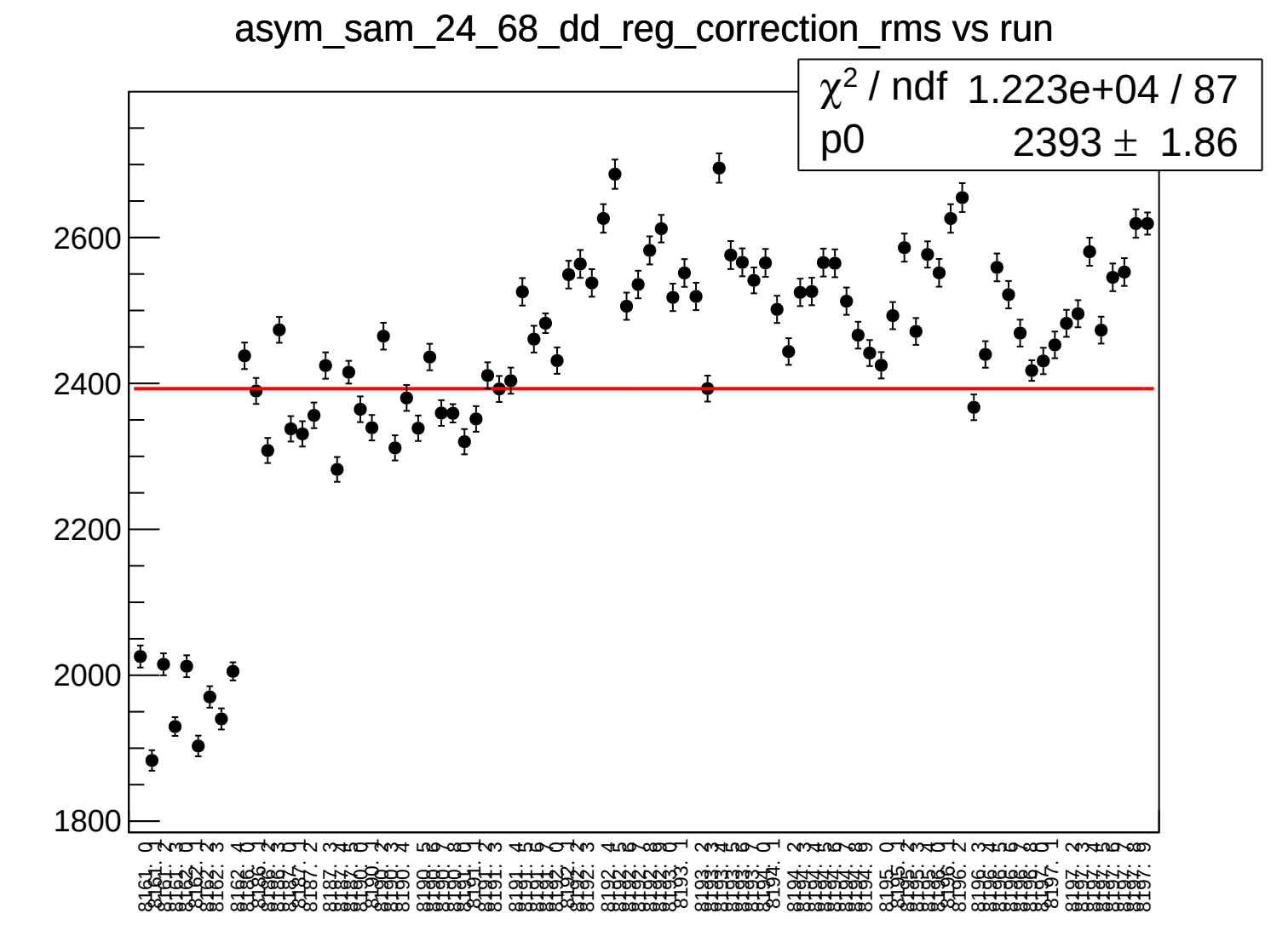

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.027e+05 / 87
p0 3.974e−11 ± 4.047e−14

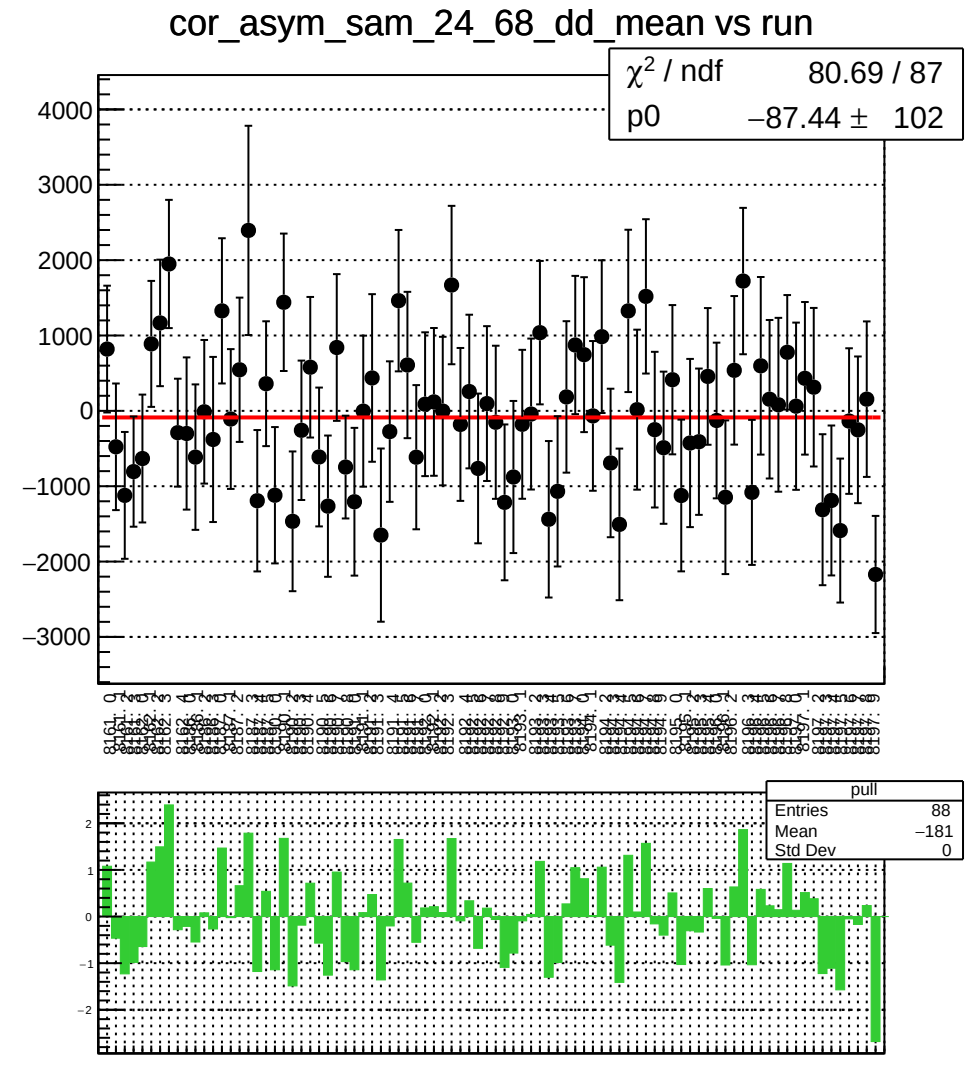

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.69 / 87
p0 −87.42 ± 102
pull
Entries 88
Mean −181
Std Dev 0
pull1D
Entries 88
Mean 0.01205
Std Dev 0.9575

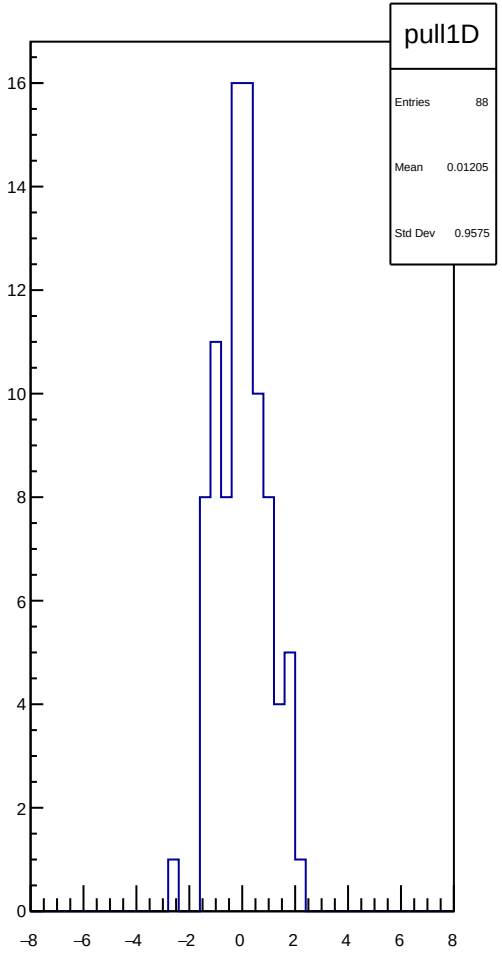

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.294e+04 / 87
p0 92.8 ± 0.07216
130
120
110
100
90
80

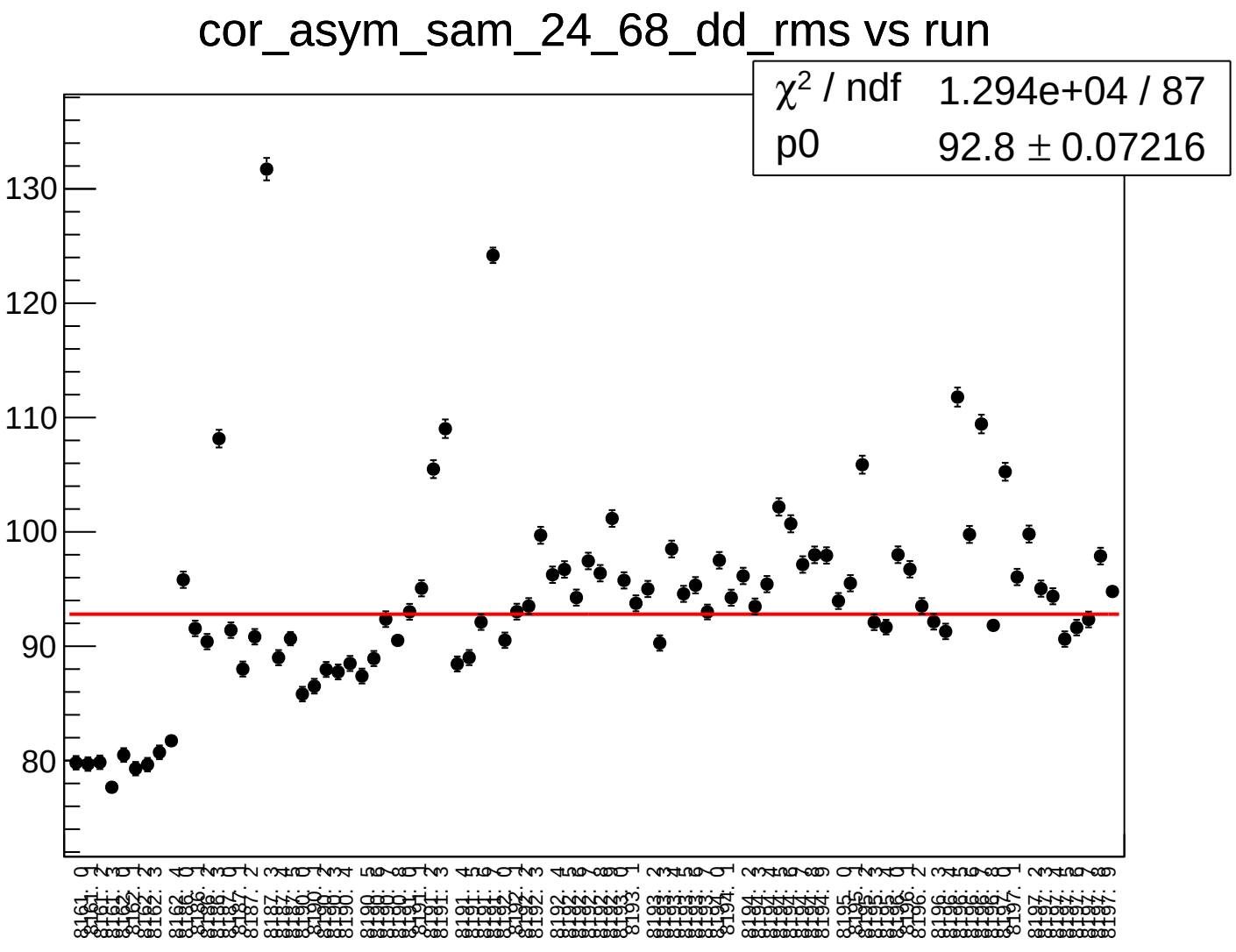

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.82 / 87
p0 −7411 ± 2631
100
50
0
−50
−100
pull
Entries 88
Mean 1081
Std Dev 0
3
2
1
0
−1
−2

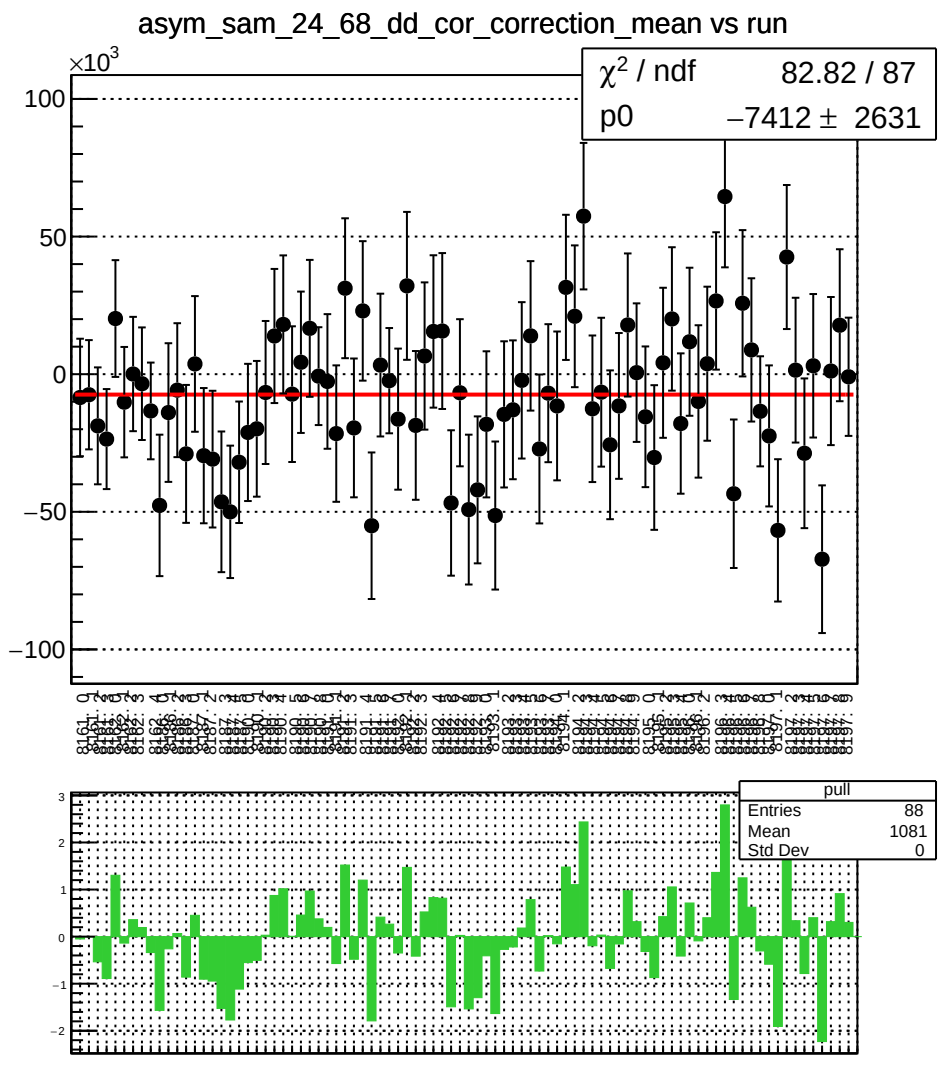

pull1D
Entries 88
Mean 0.003878
Std Dev 0.9701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

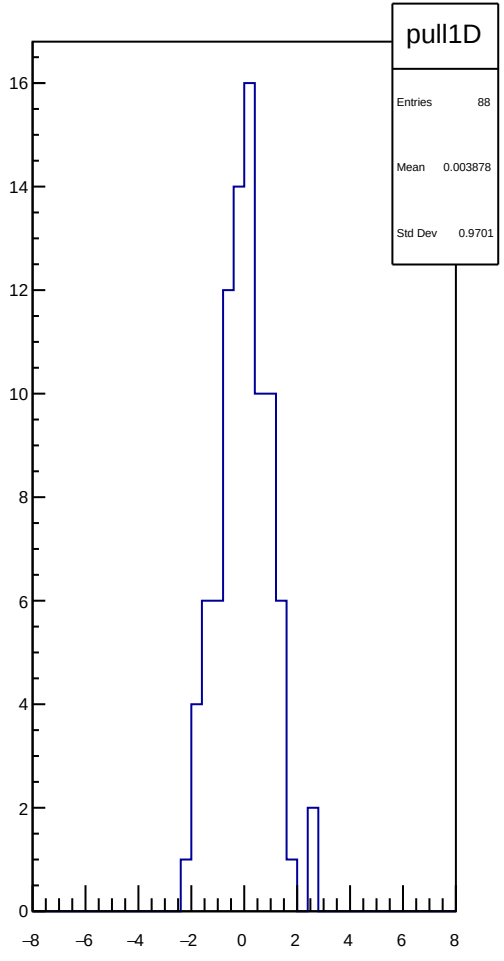

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.223e+04 / 87
p0 2393 ± 1.86
2600
2400
2200
2000
1800

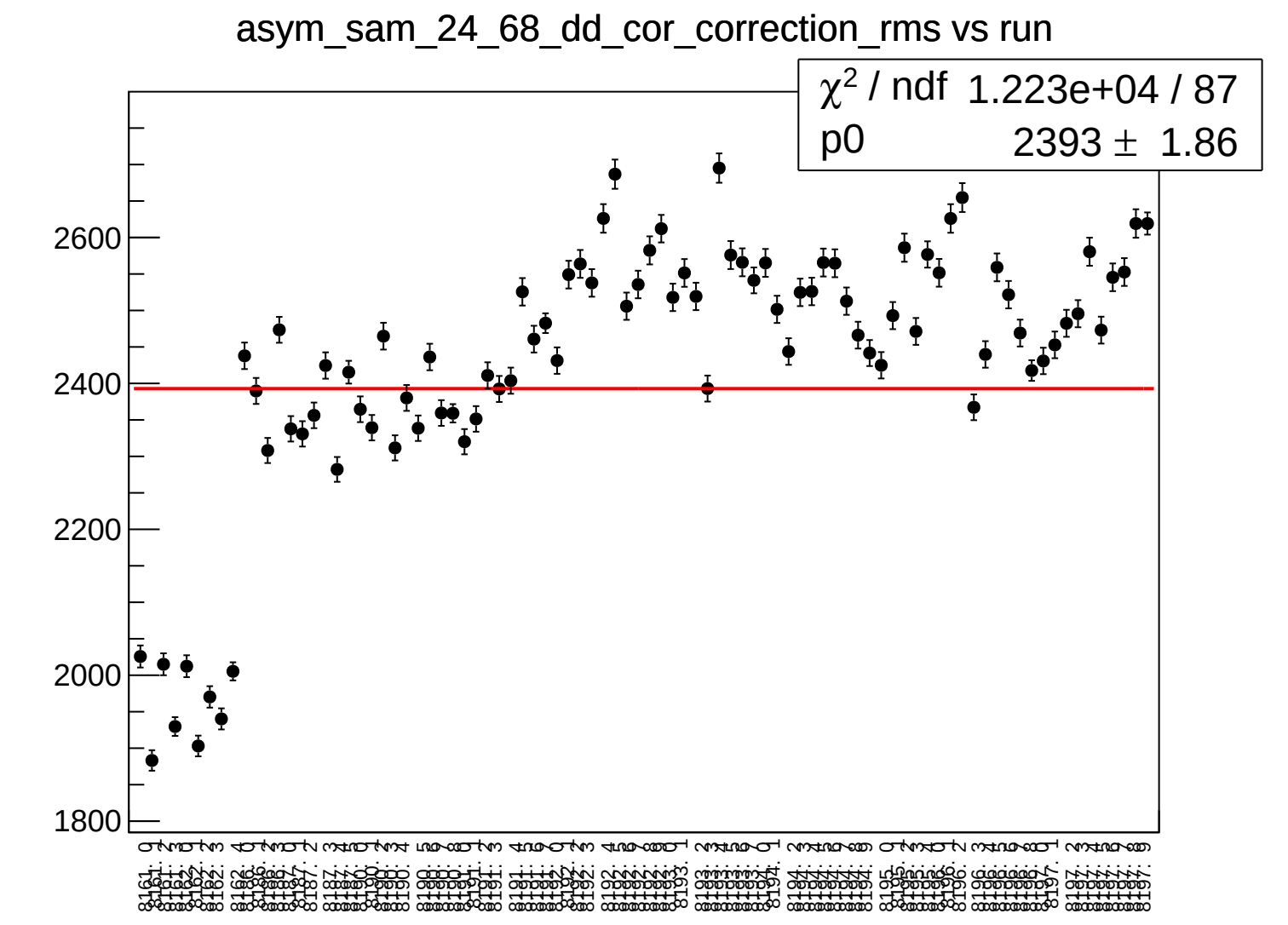

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.69 / 87
p0 −87.44 ± 102
pull
Entries 88
Mean −181
Std Dev 0

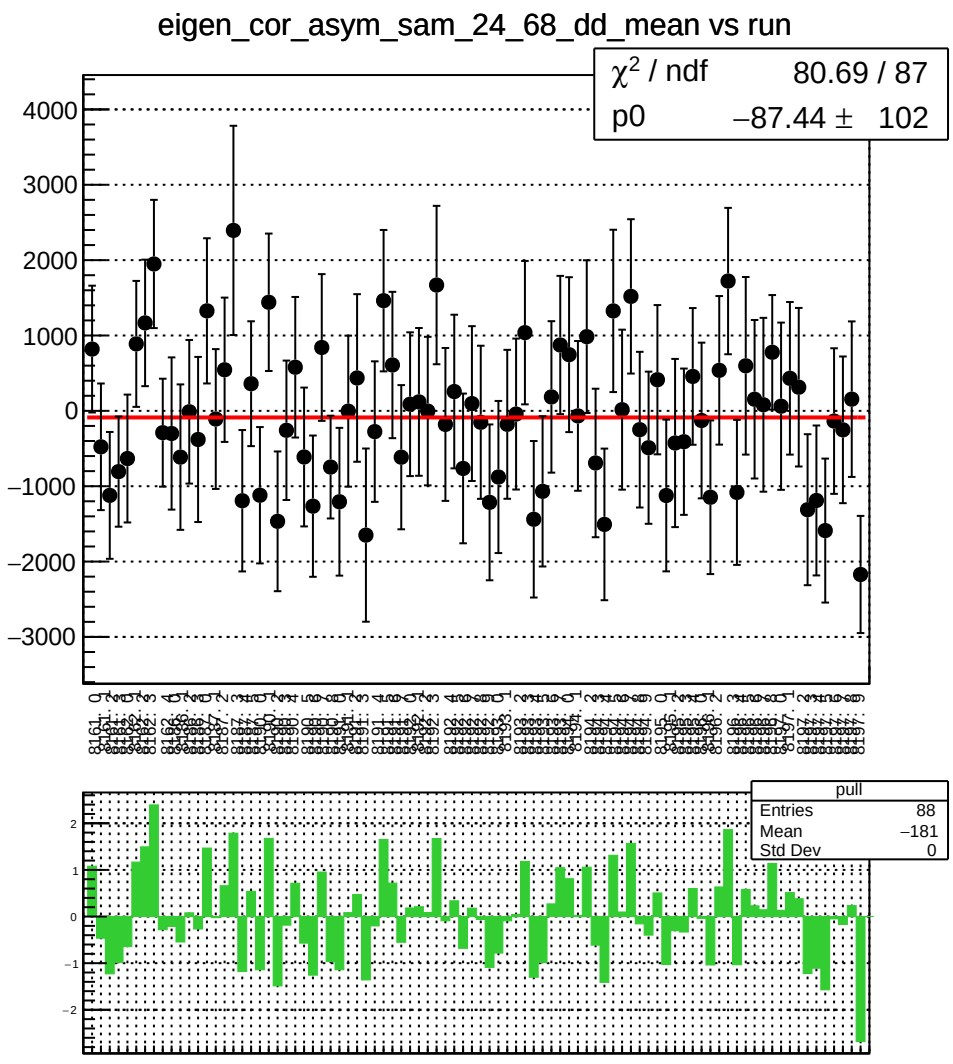

pull1D
Entries 88
Mean 0.01205
Std Dev 0.9575

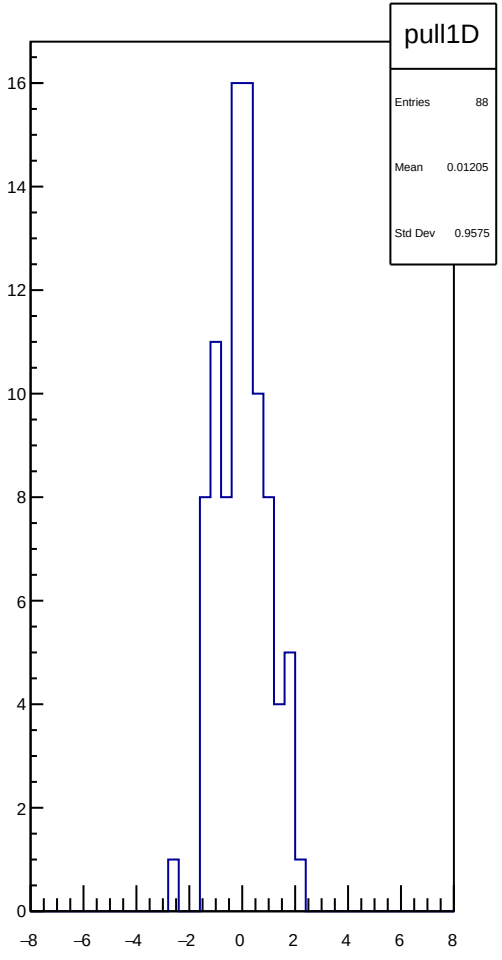

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.294e+04 / 87
p0 92.8 ± 0.07216
130
120
110
100
90
80

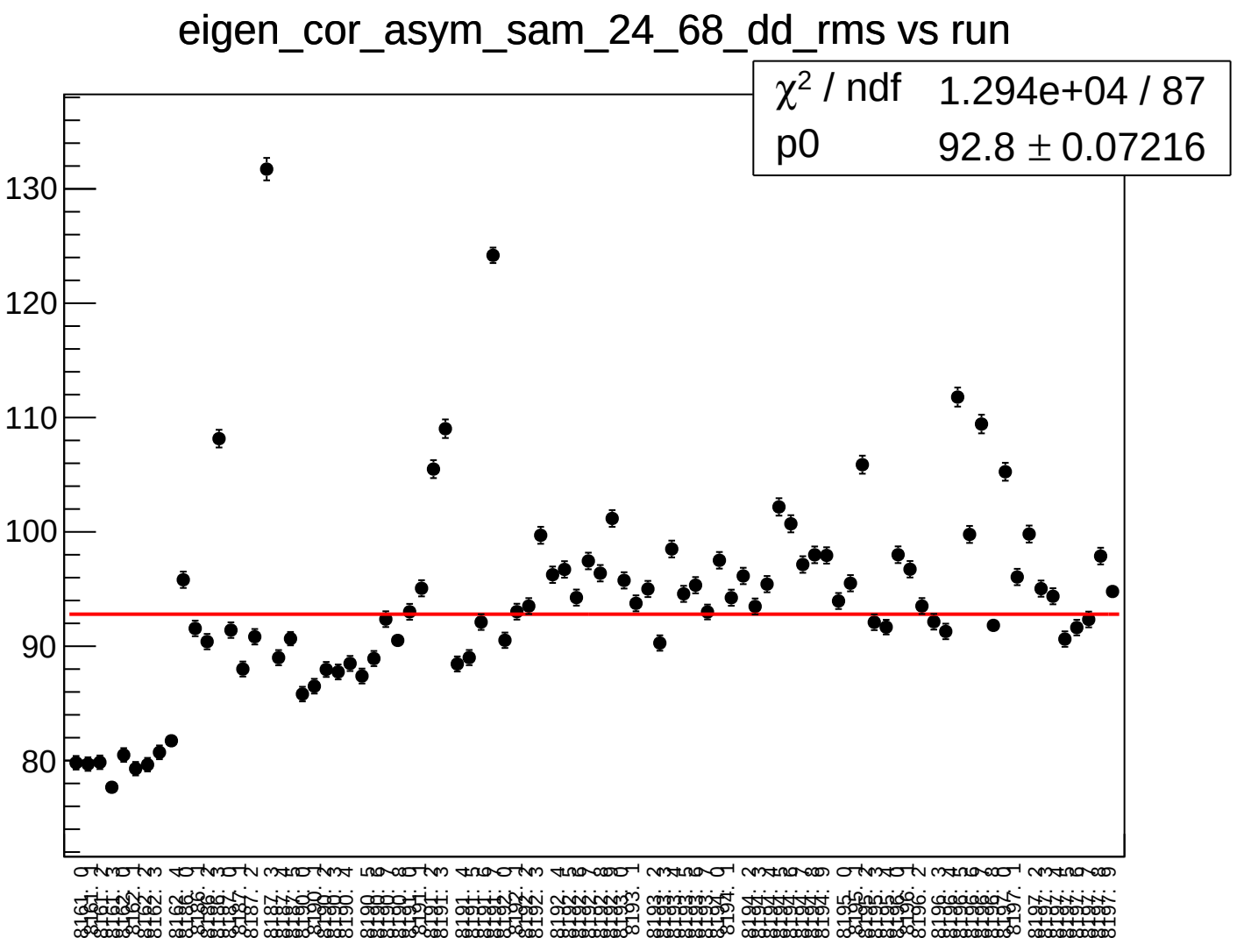

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.82 / 87
p0 −7412 ± 2631
100
50
0
−50
−100
pull
Entries 88
Mean 1081
Std Dev 0
3
2
1
0
−1
−2

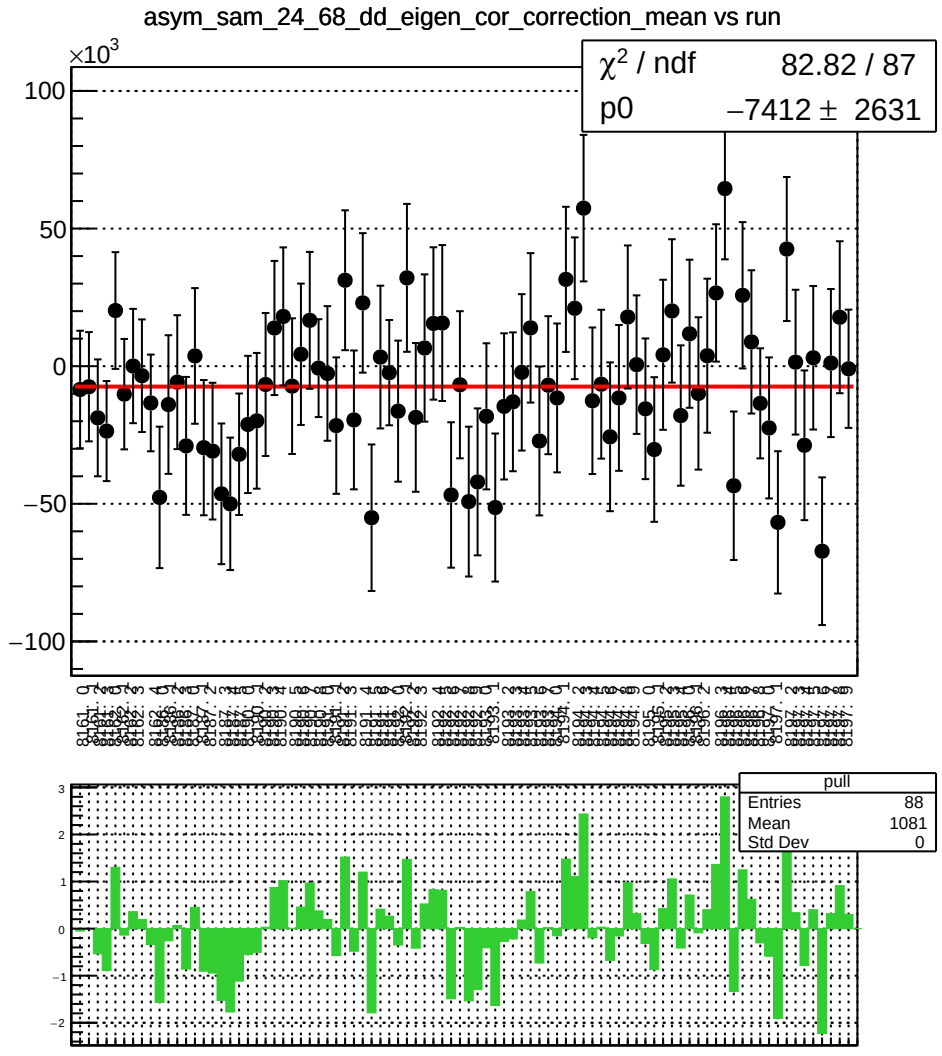

pull1D
Entries 88
Mean 0.003878
Std Dev 0.9701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

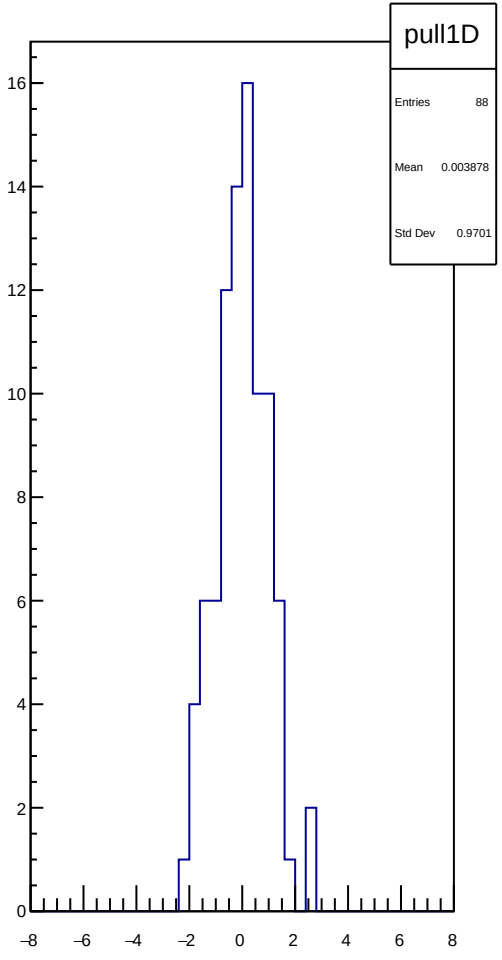

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.223e+04 / 87
p0 2393 ± 1.86
2600
2400
2200
2000
1800

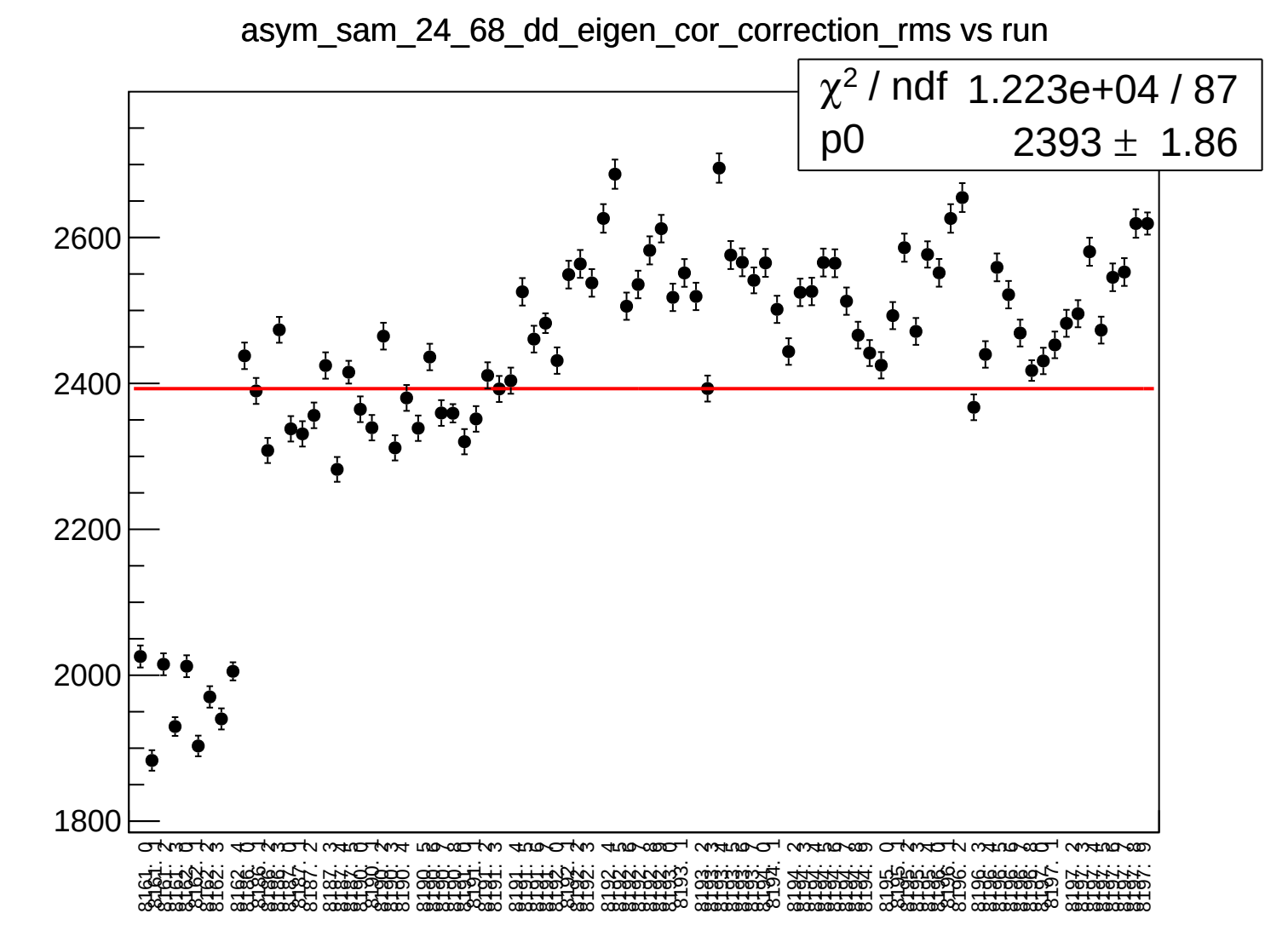

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.69 / 87
p0 −87.44 ± 102
pull
Entries 88
Mean −181
Std Dev 0

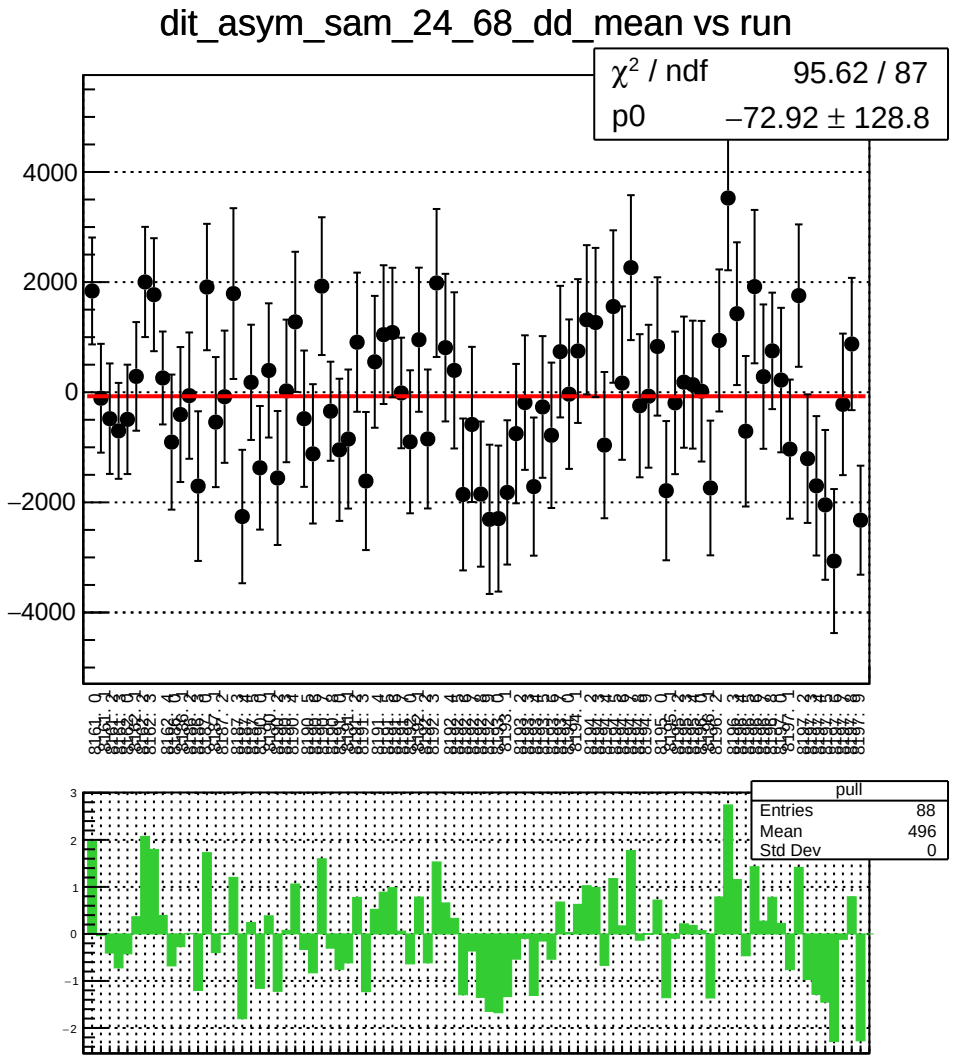

pull1D
Entries 88
Mean 0.01205
Std Dev 0.9575

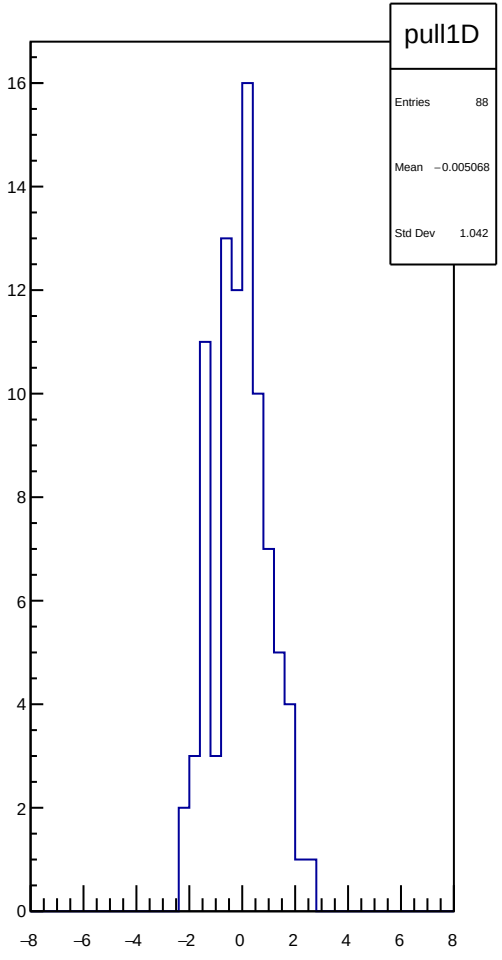

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.294e+04 / 87
p0 92.8 ± 0.07216
130
120
110
100
90
80

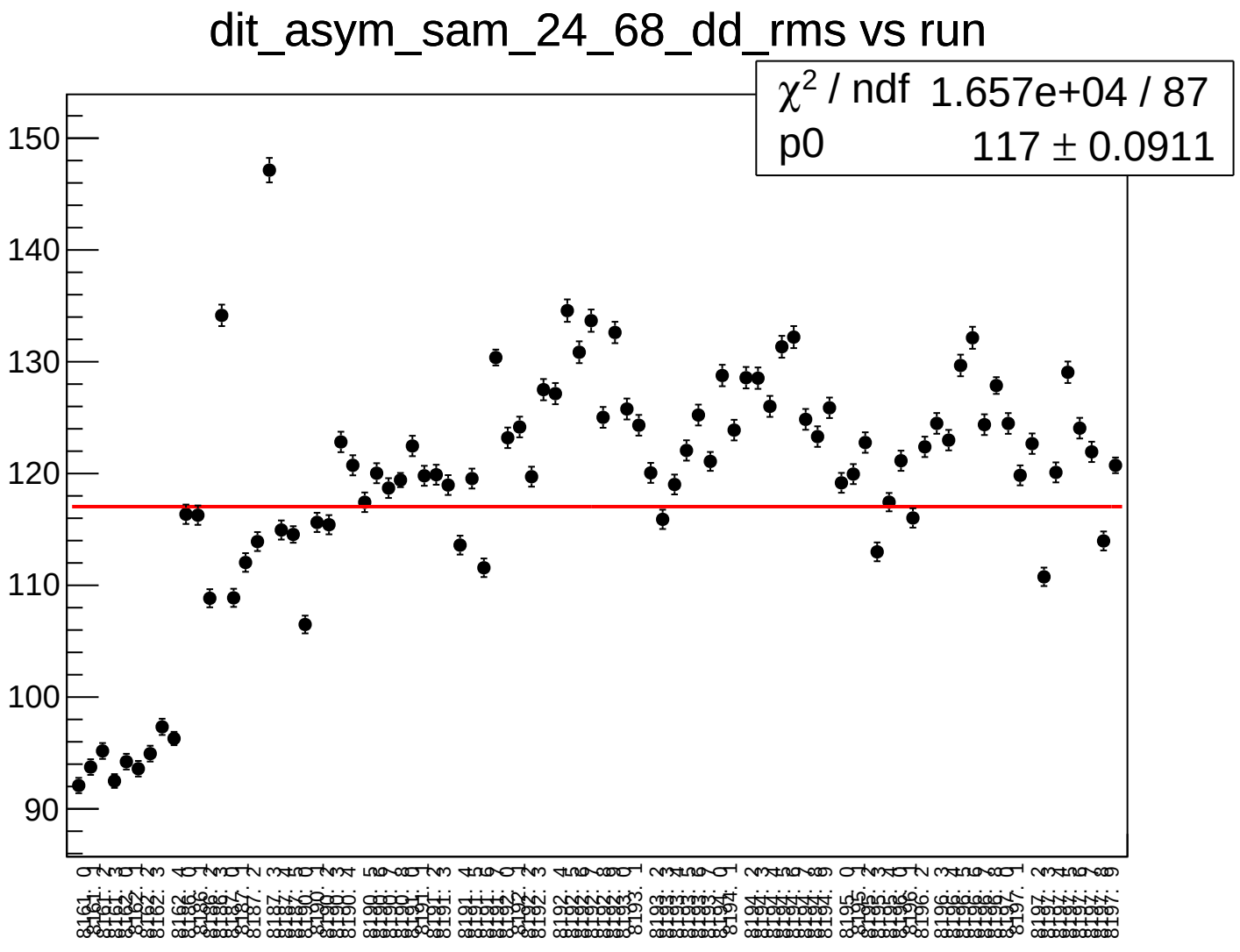

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.82 / 87
p0 −7412 ± 2631
100
50
0
−50
−100
pull
Entries 88
Mean 1081
Std Dev 0
3
2
1
0
−1
−2

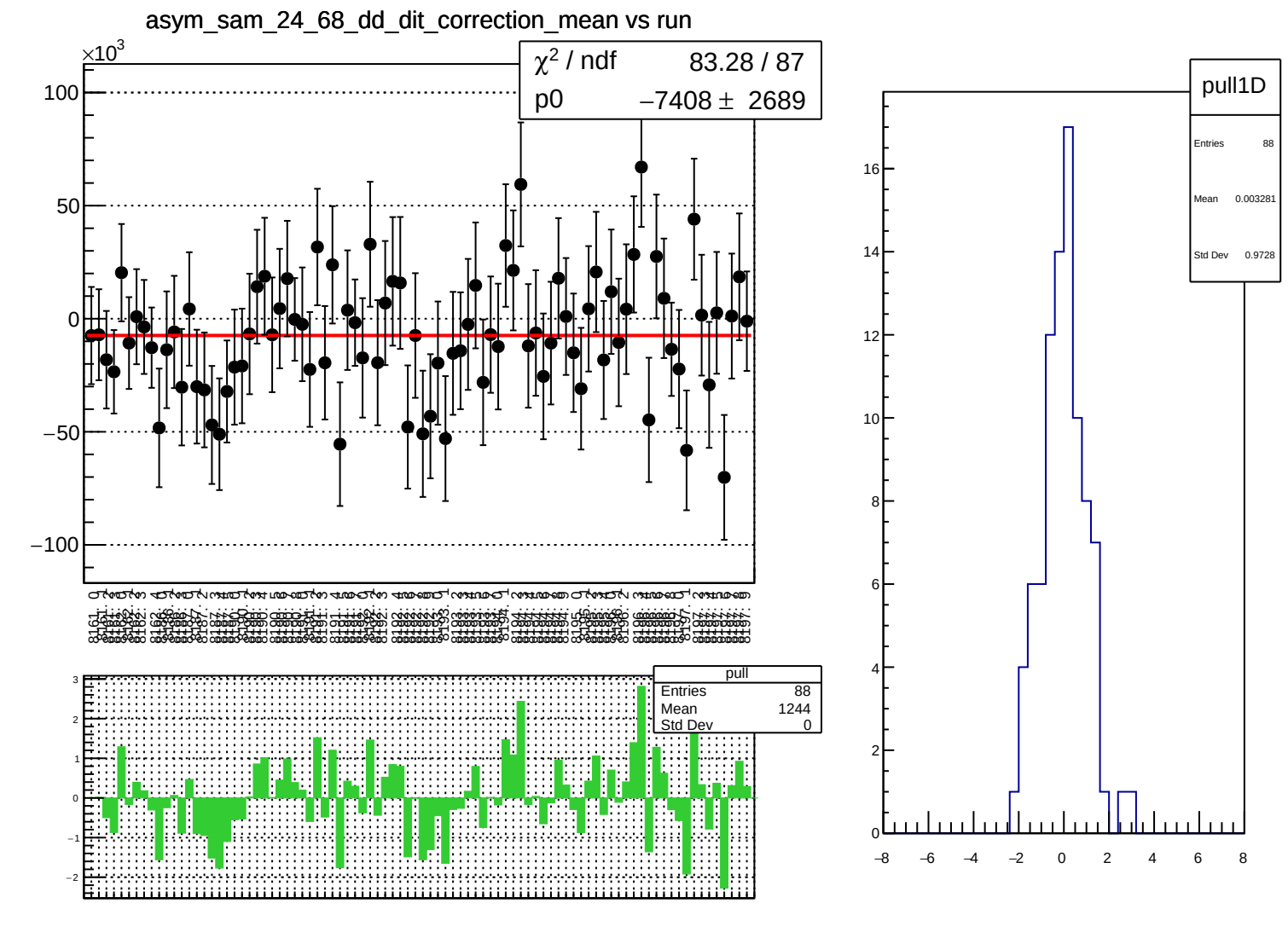

pull1D
Entries 88
Mean 0.003878
Std Dev 0.9701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

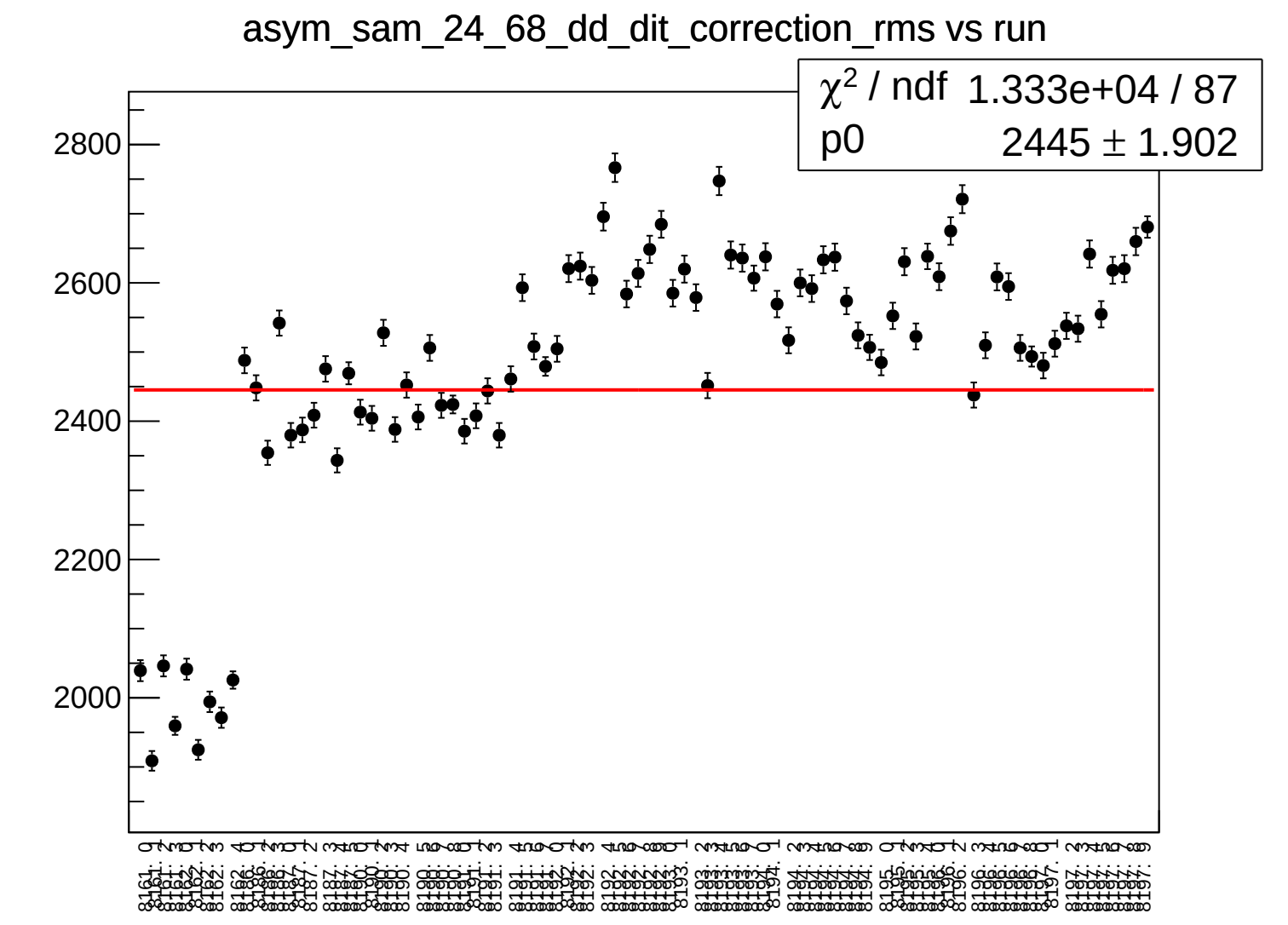

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.223e+04 / 87
p0 2393 ± 1.86
2600
2400
2200
2000
1800

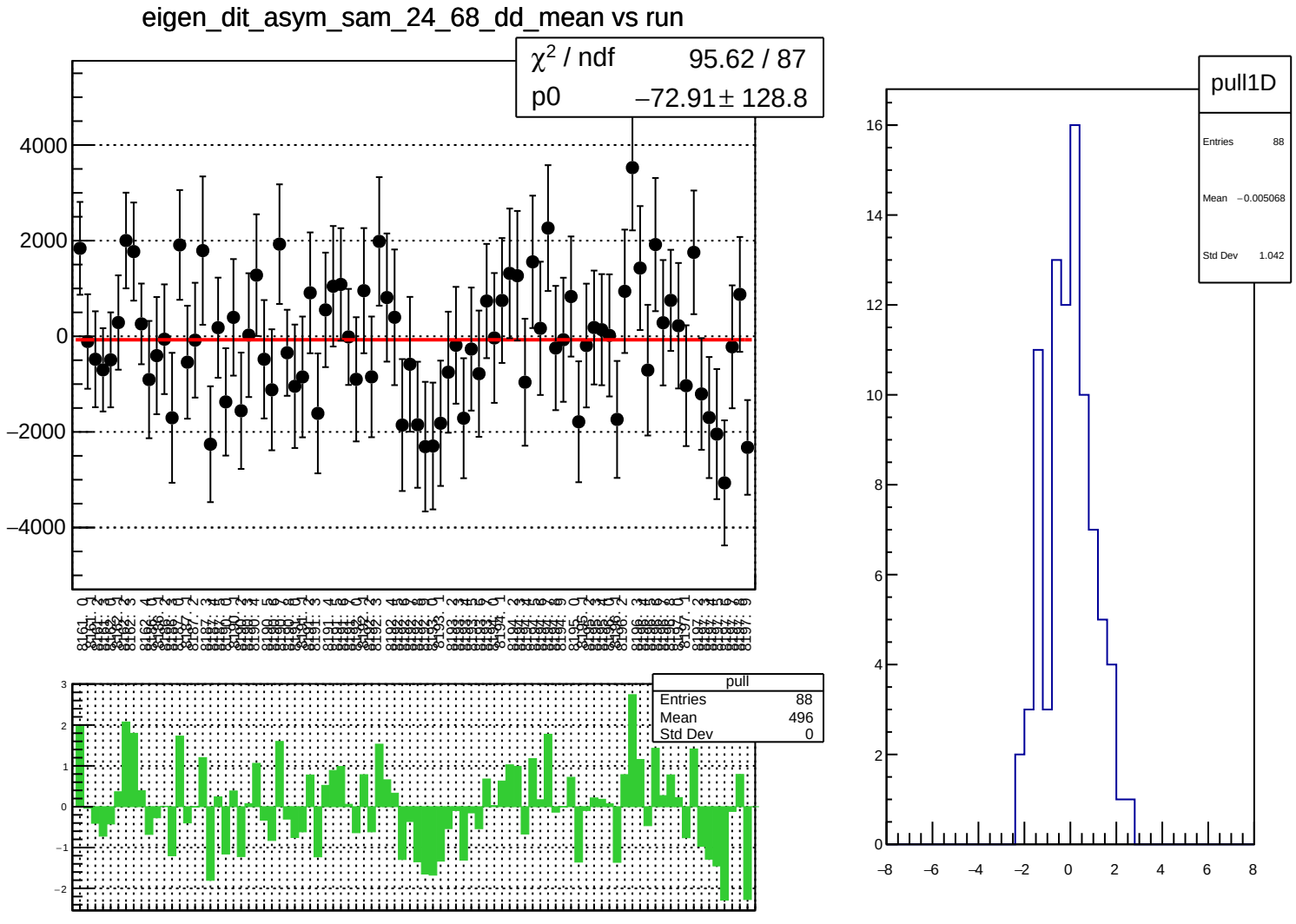

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 95.62 / 87
p0 −72.92 ± 128.8
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 496
Std Dev 0
3
2
1
0
−1
−2

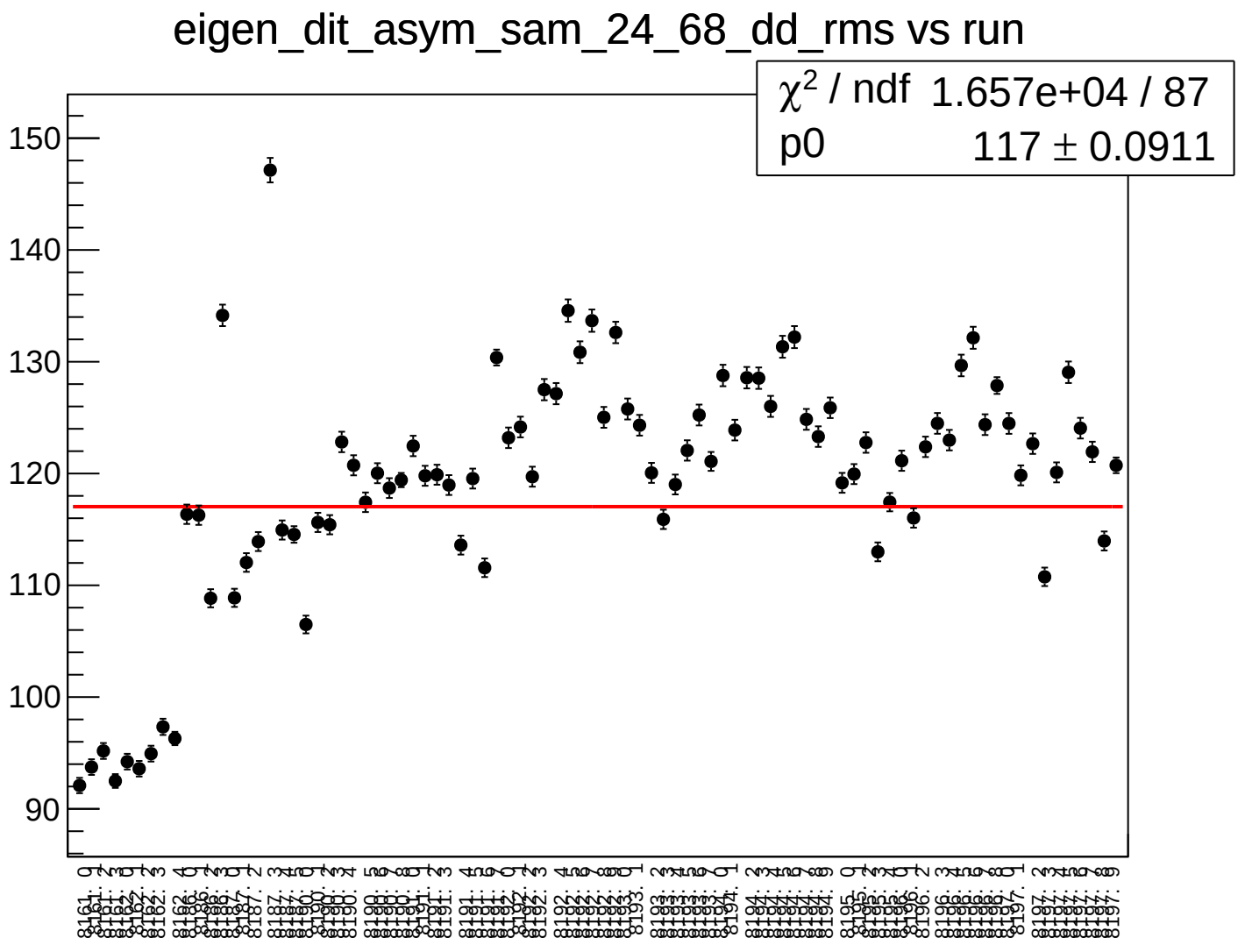

pull1D
Entries 88
Mean −0.005068
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

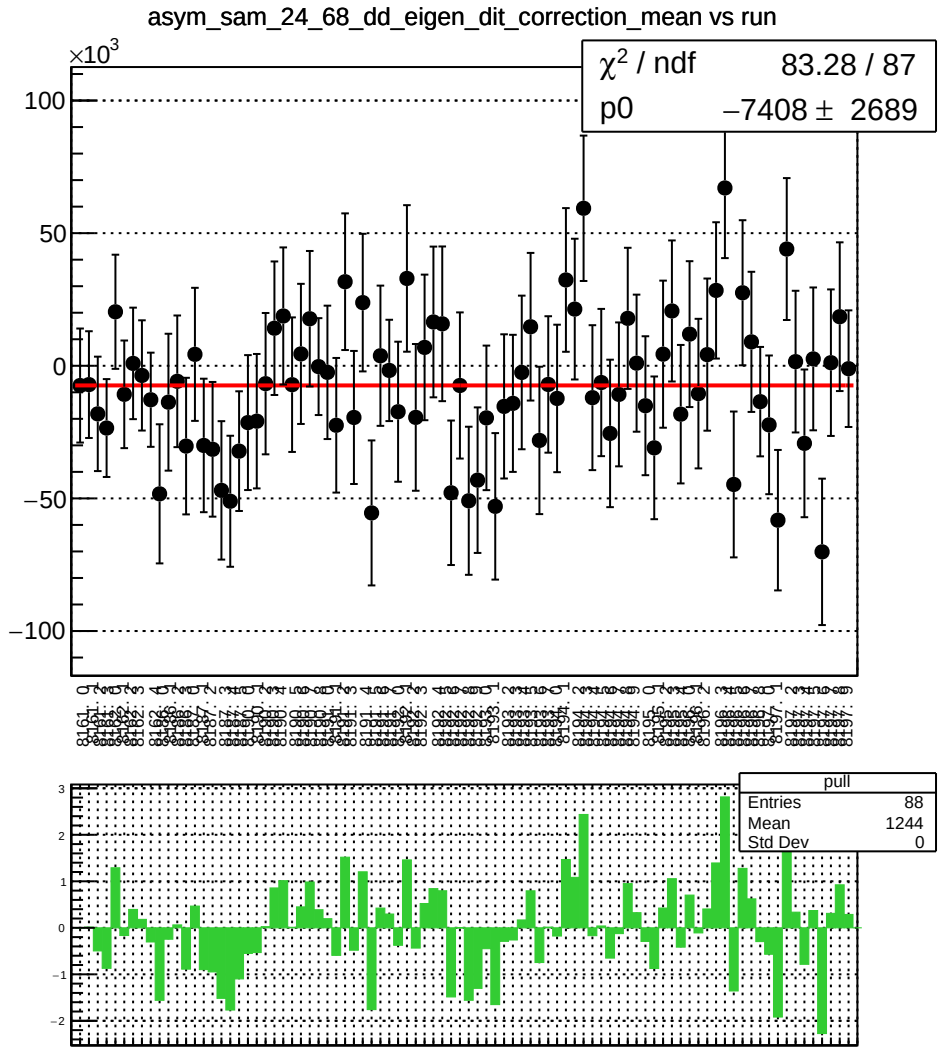

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.657e+04 / 87
p0 117 ± 0.0911
150
140
130
120
110
100
90

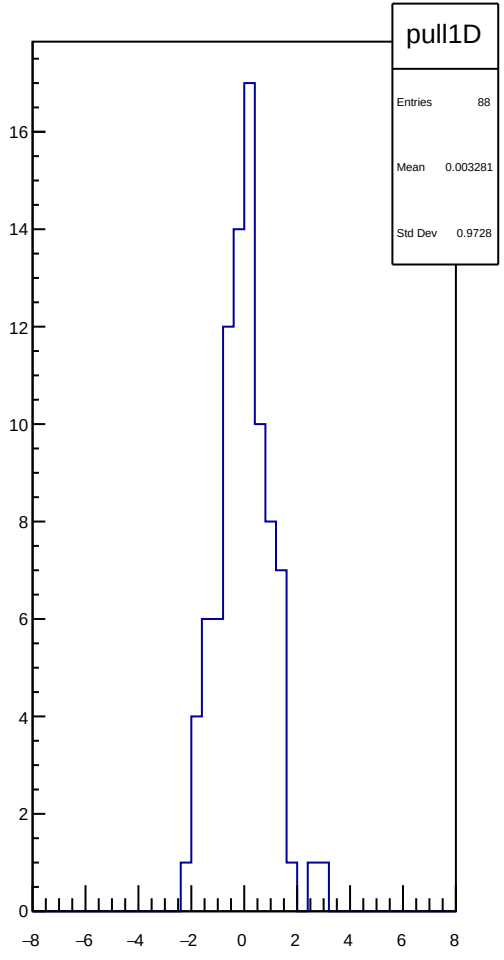

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.28 / 87
p0 −7408 ± 2689
pull
Entries 88
Mean 1244
Std Dev 0
pull1D
Entries 88
Mean 0.003281
Std Dev 0.9728

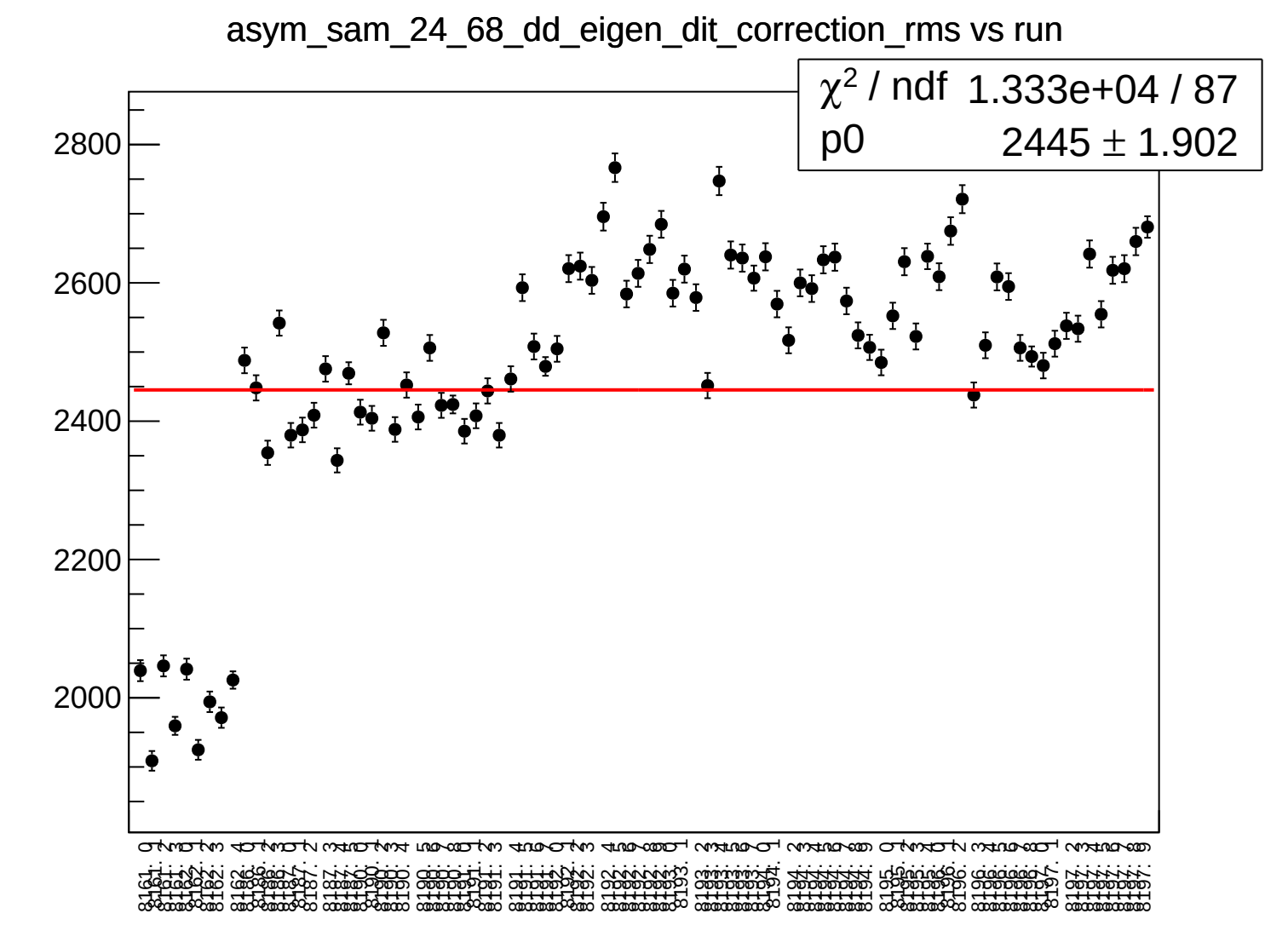

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.333e+04 / 87
p0 2445 ± 1.902
2800
2600
2400
2200
2000

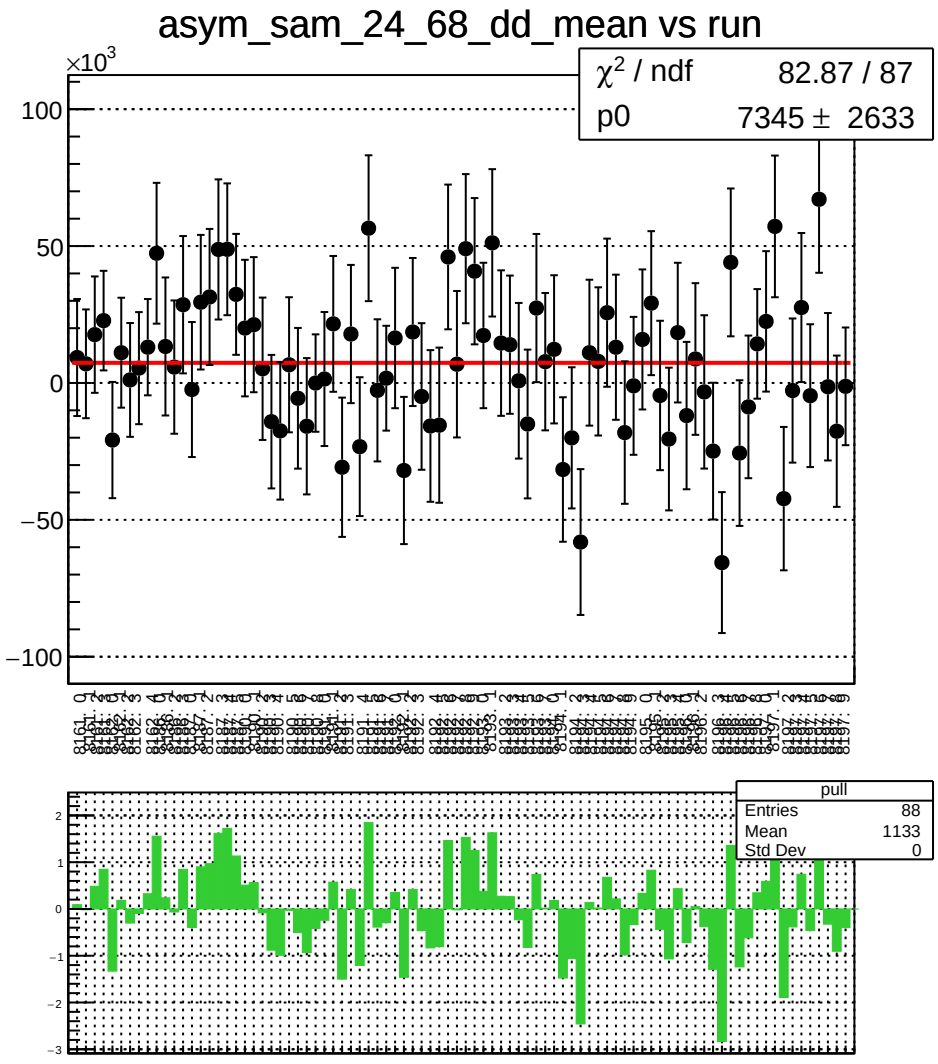

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 95.62 / 87
p0 −72.91± 128.8
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 496
Std Dev 0
pull1D
Entries 88
Mean −0.005068
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

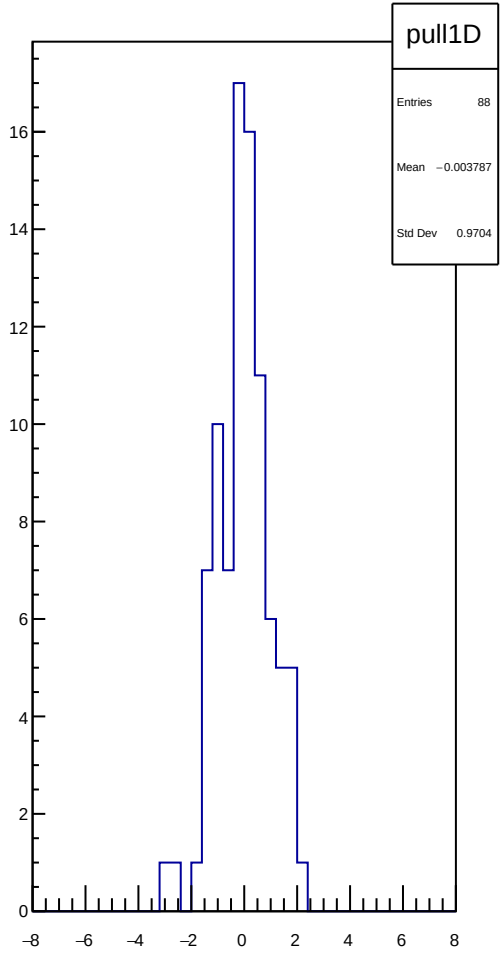

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.657e+04 / 87
p0 117 ± 0.0911
150
140
130
120
110
100
90

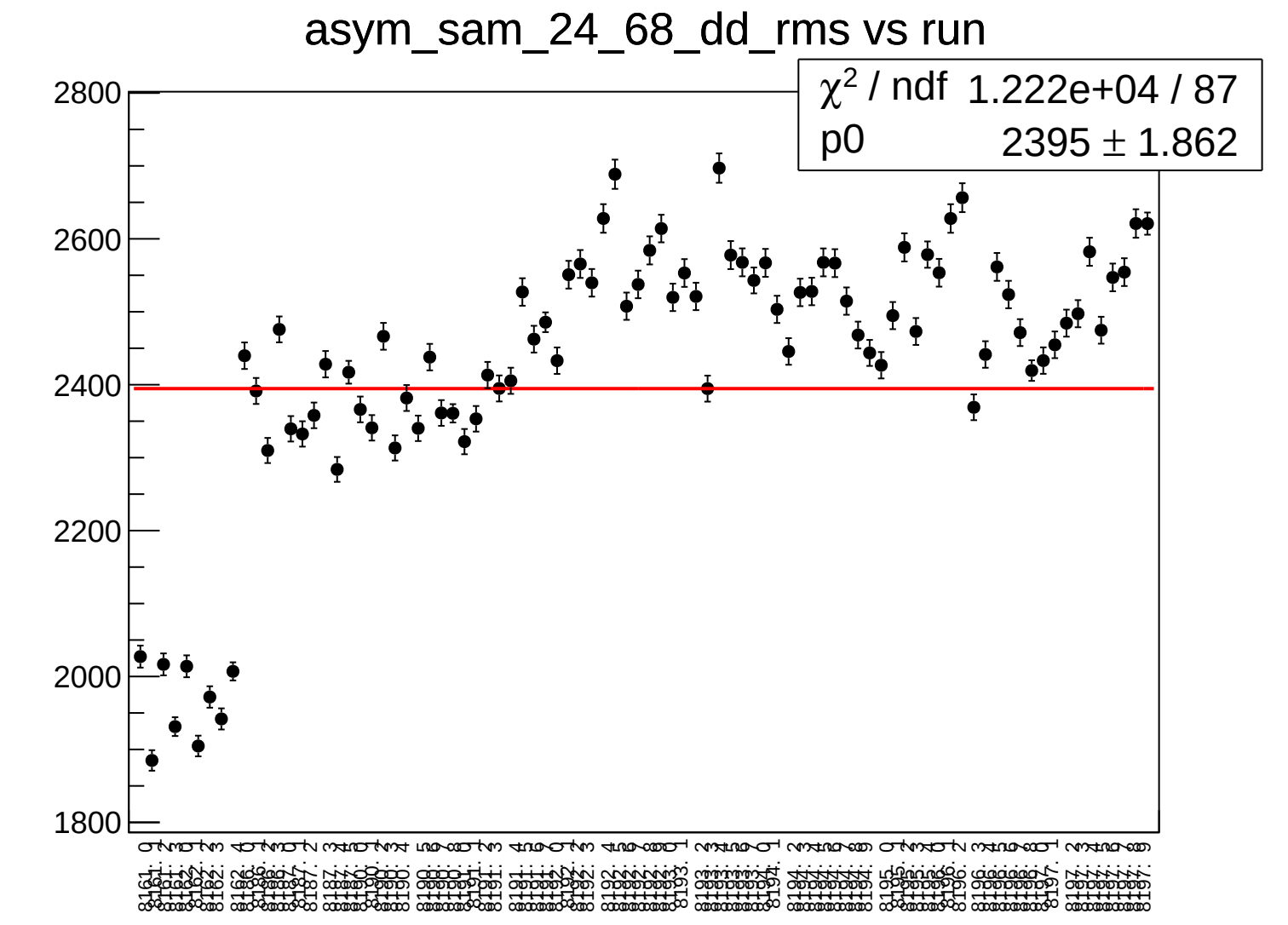

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.28 / 87
p0 −7408 ± 2689
100
50
0
−50
−100
pull
Entries 88
Mean 1244
Std Dev 0
3
2
1
0
−1
−2

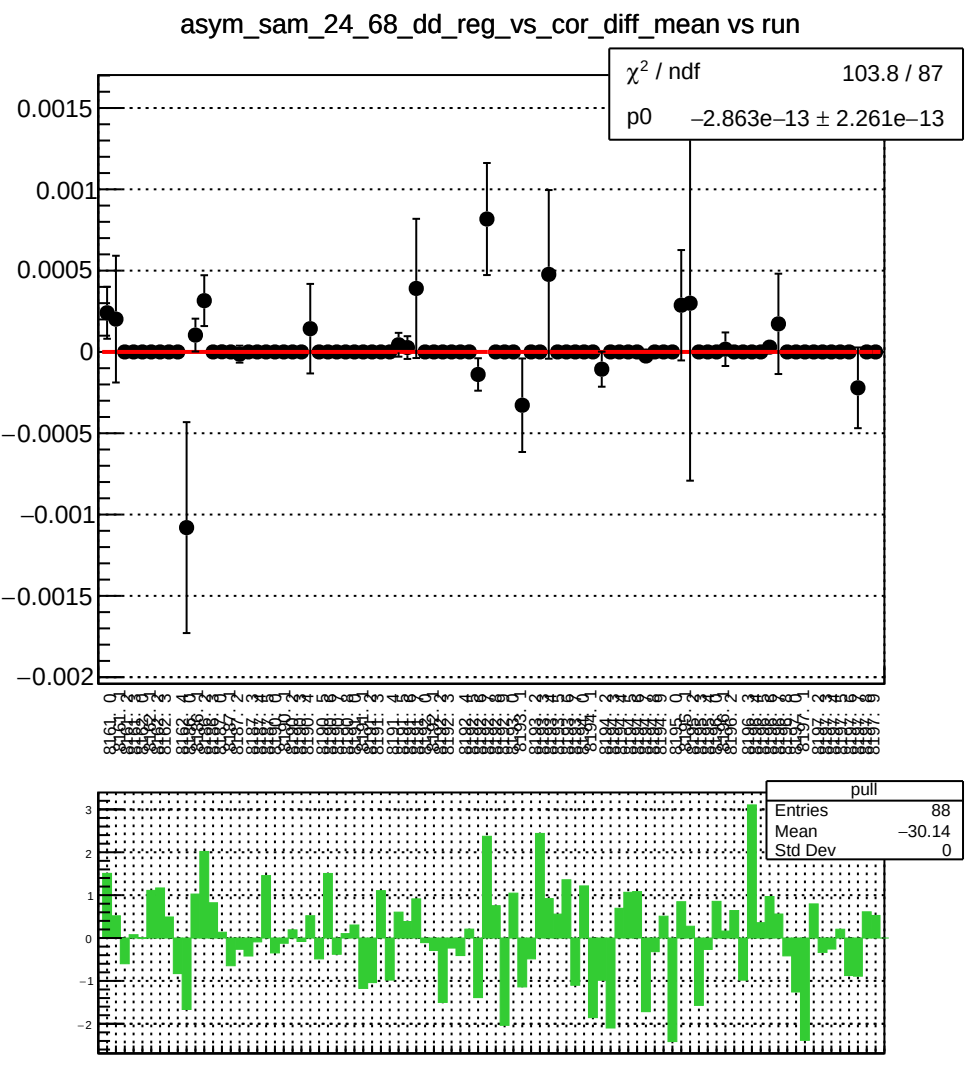

pull1D
Entries 88
Mean 0.003281
Std Dev 0.9728
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

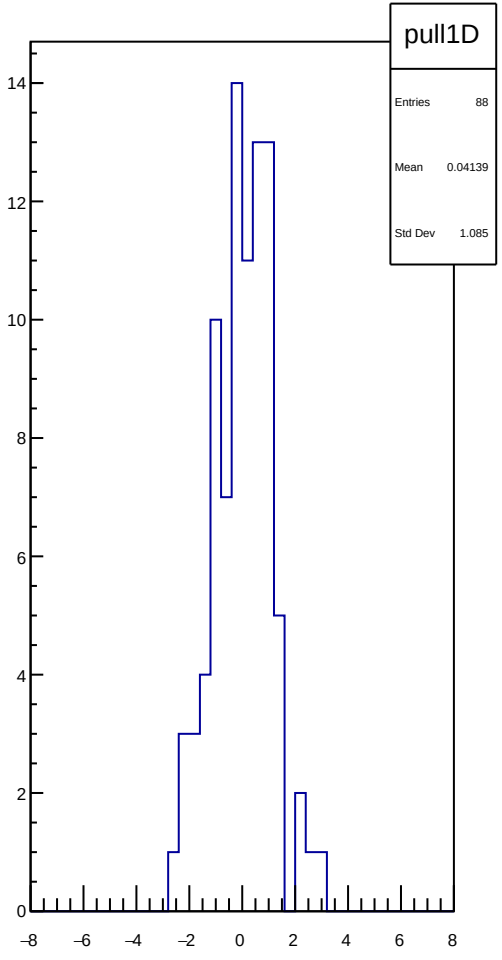

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.333e+04 / 87
p0 2445 ± 1.902
2800
2600
2400
2200
2000

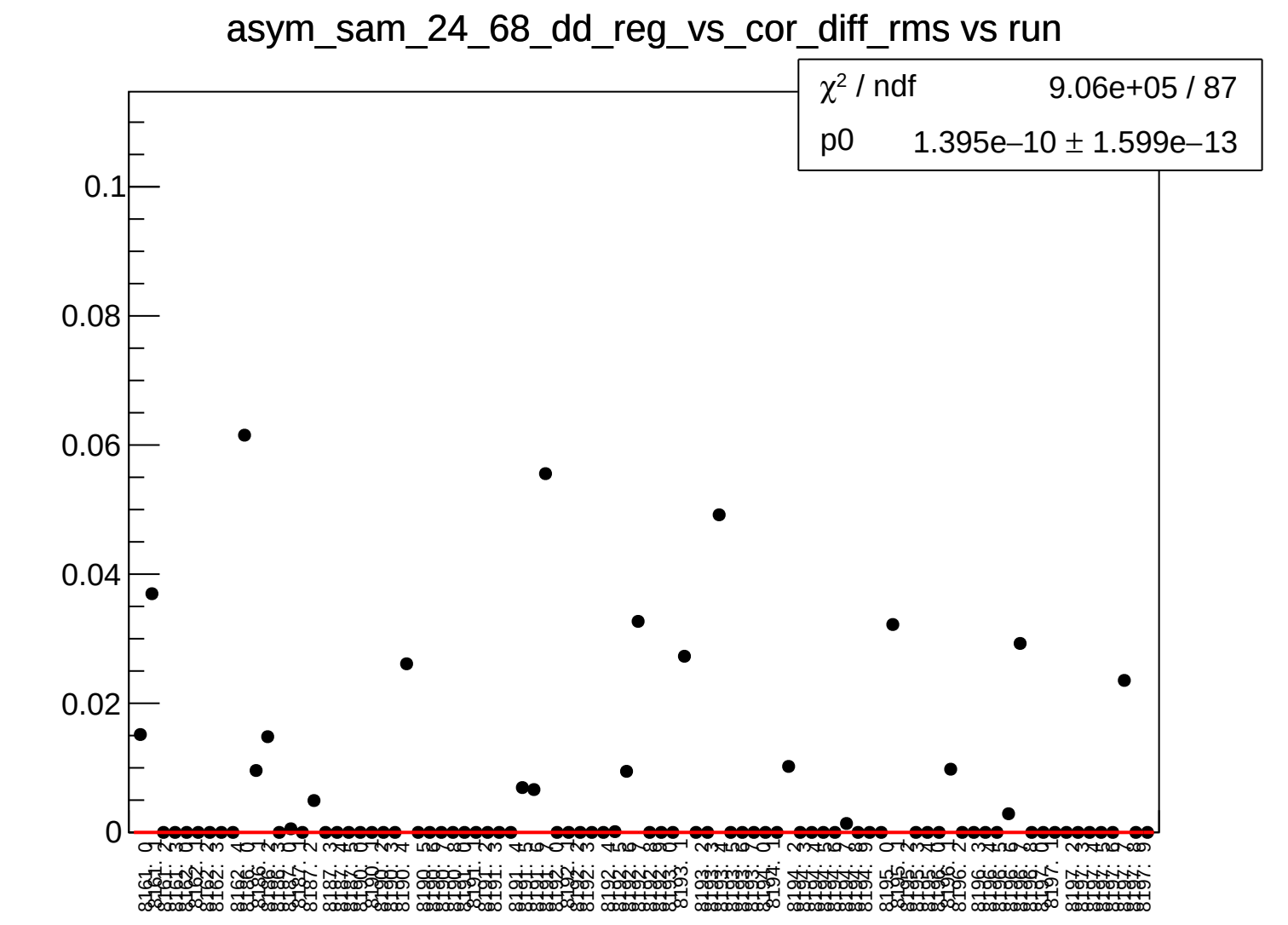

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 82.87 / 87
p0 7345 ± 2633
100
50
0
−50
−100
pull
Entries 88
Mean 1133
Std Dev 0
2
1
0
−1
−2
−3

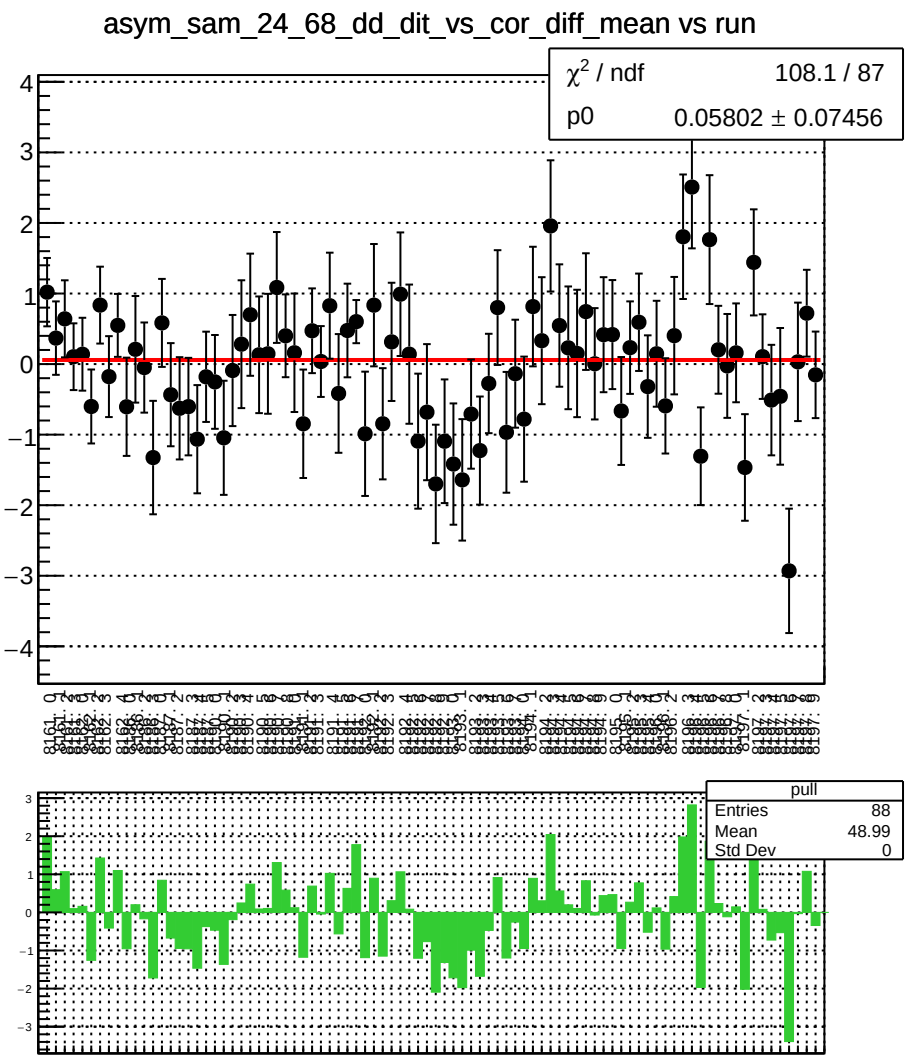

pull1D
Entries 88
Mean −0.003787
Std Dev 0.9704
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

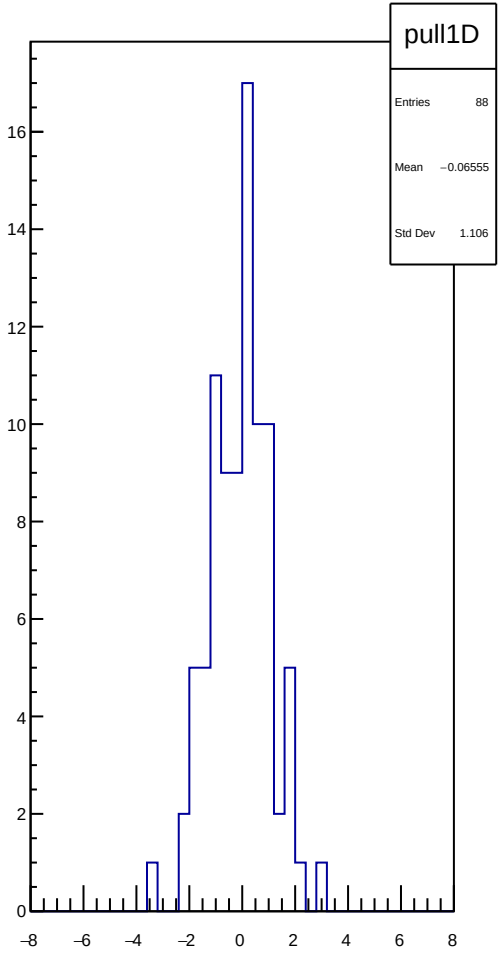

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.222e+04 / 87
p0 2395 ± 1.862
2800
2600
2400
2200
2000
1800

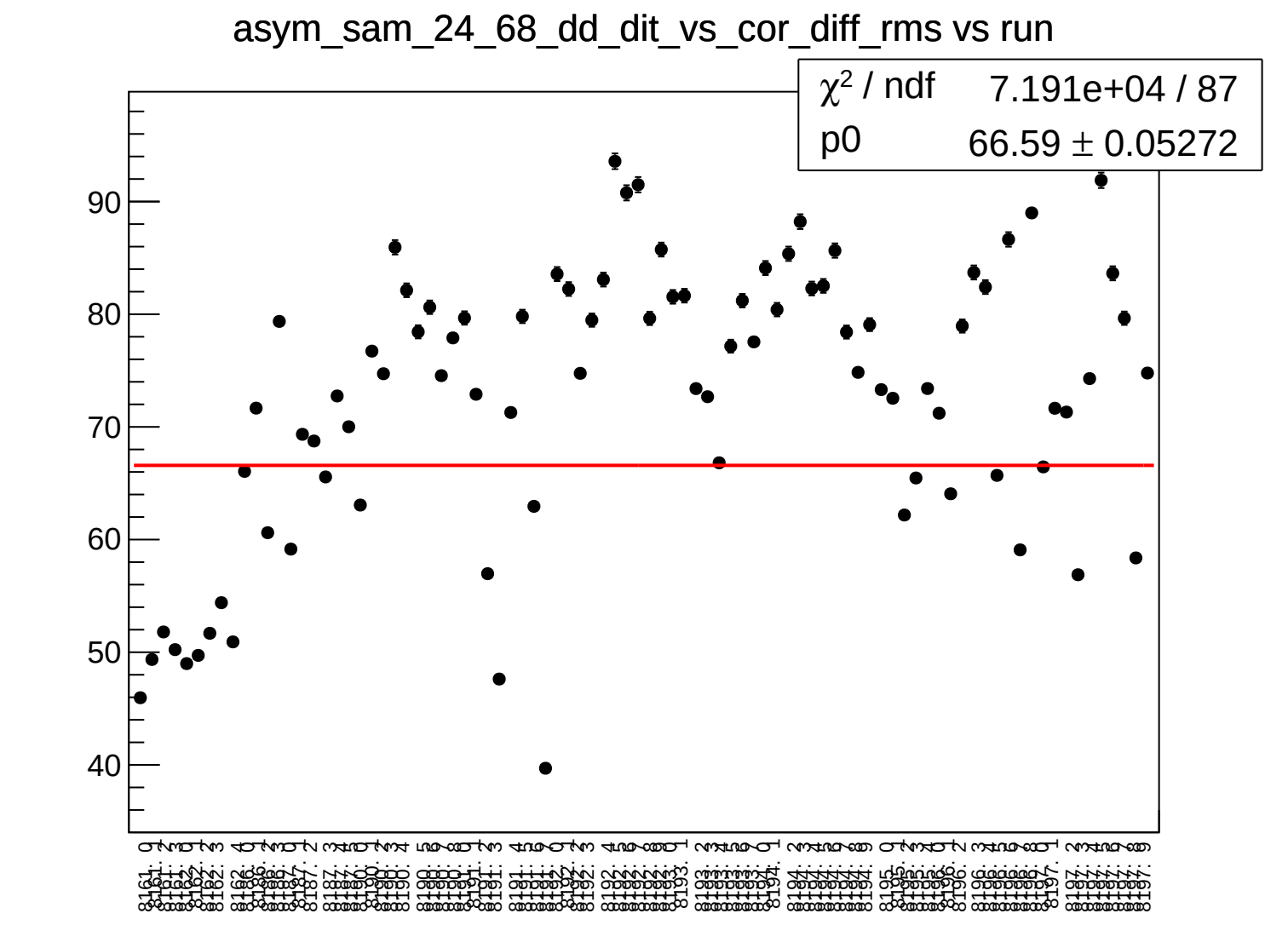

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 87
p0 −2.863e−13 ± 2.261e−13
pull
Entries 88
Mean −30.14
Std Dev 0

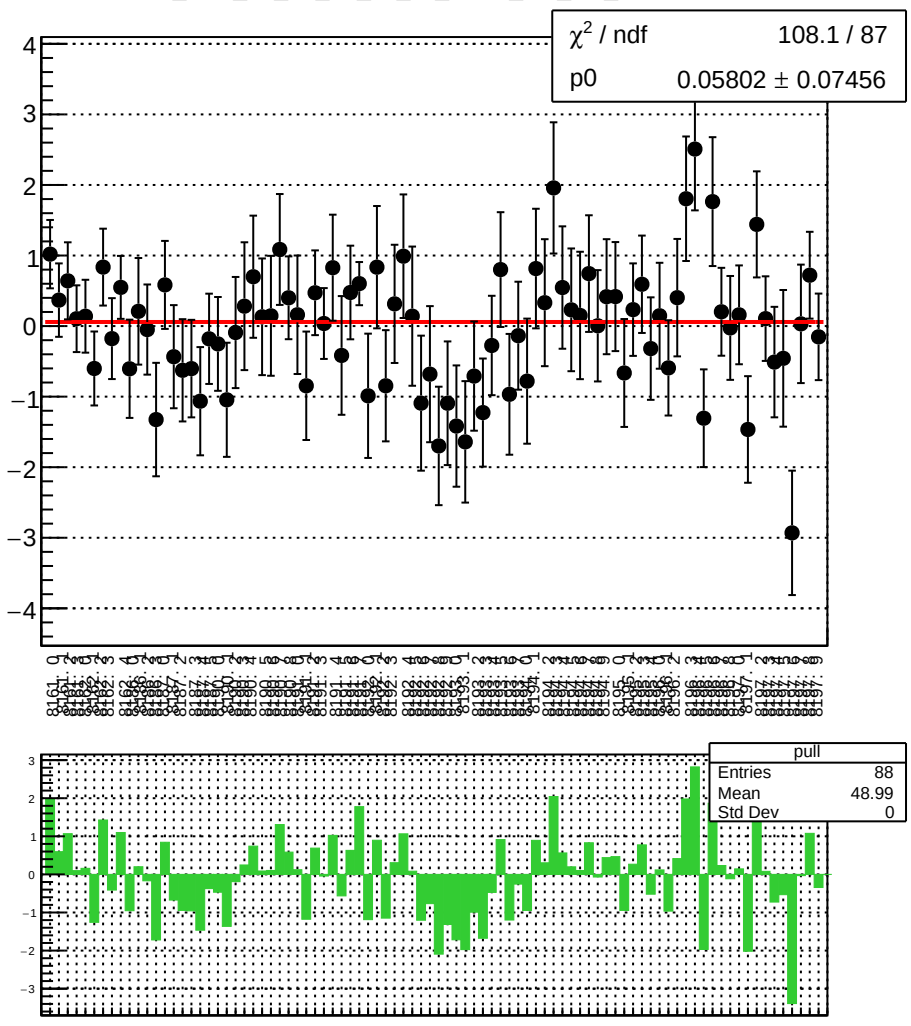

pull1D
Entries 88
Mean 0.04139
Std Dev 1.085

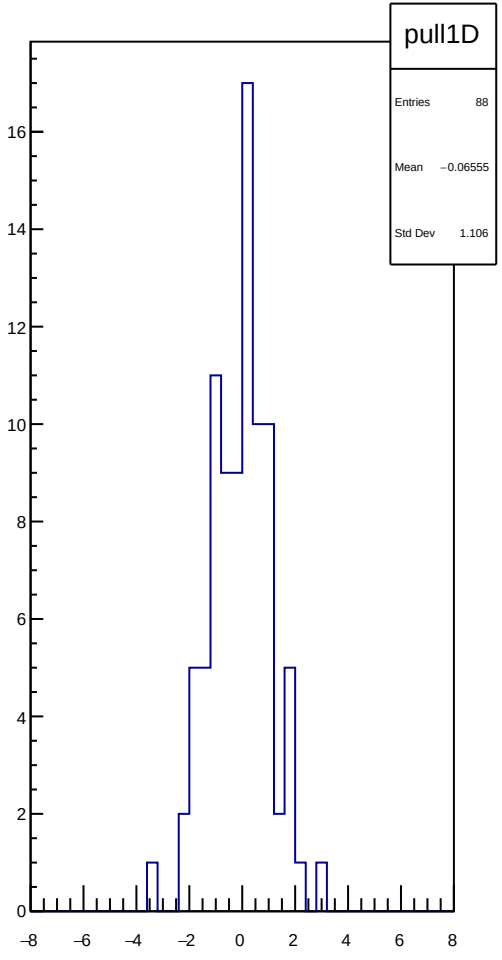

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.06e+05 / 87
p0 1.395e−10 ± 1.599e−13
0.1
0.08
0.06
0.04
0.02
0

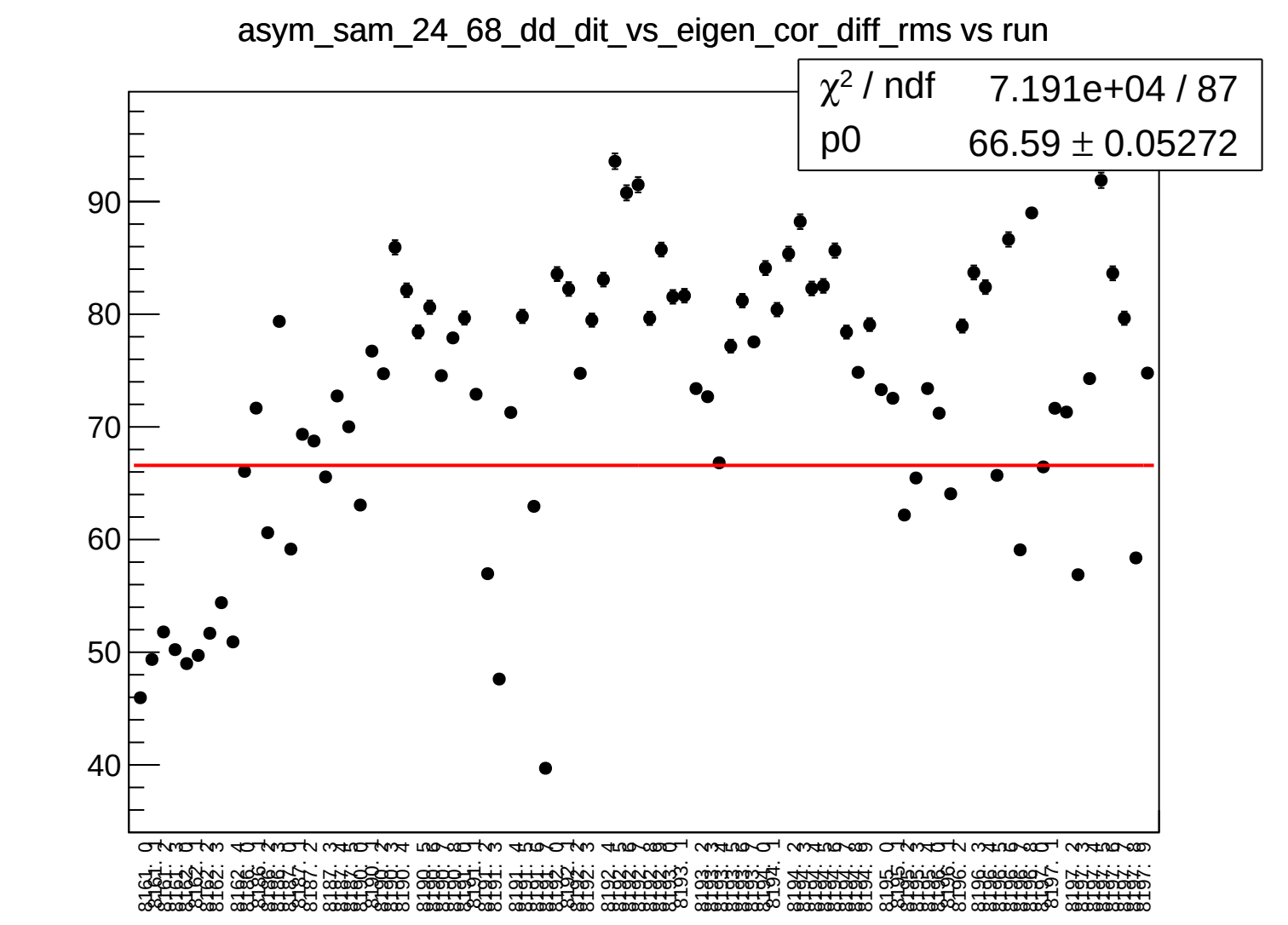

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 87
p0 0.05802 ± 0.07456
pull
Entries 88
Mean 48.99
Std Dev 0

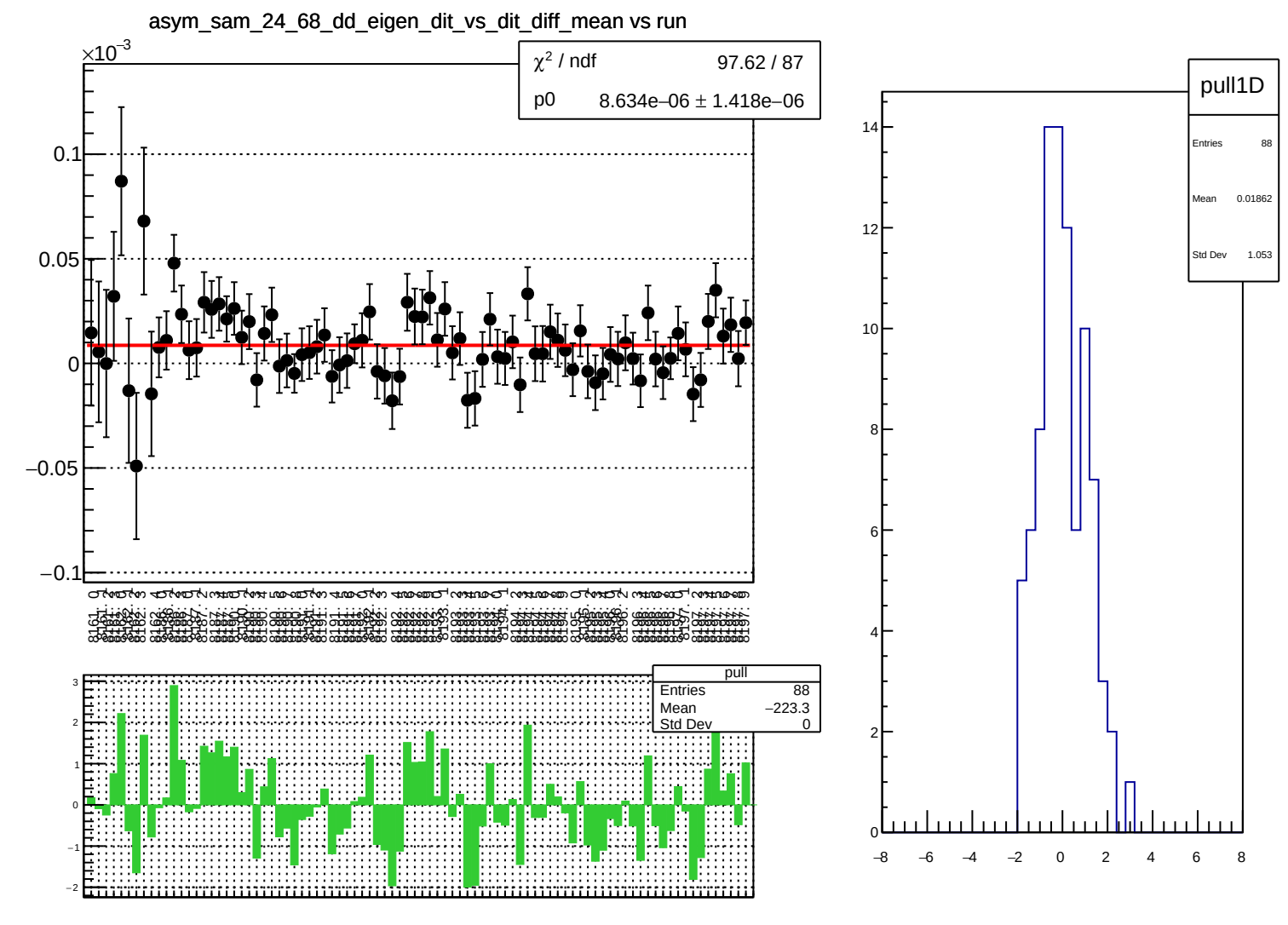

pull1D
Entries 88
Mean −0.06555
Std Dev 1.106

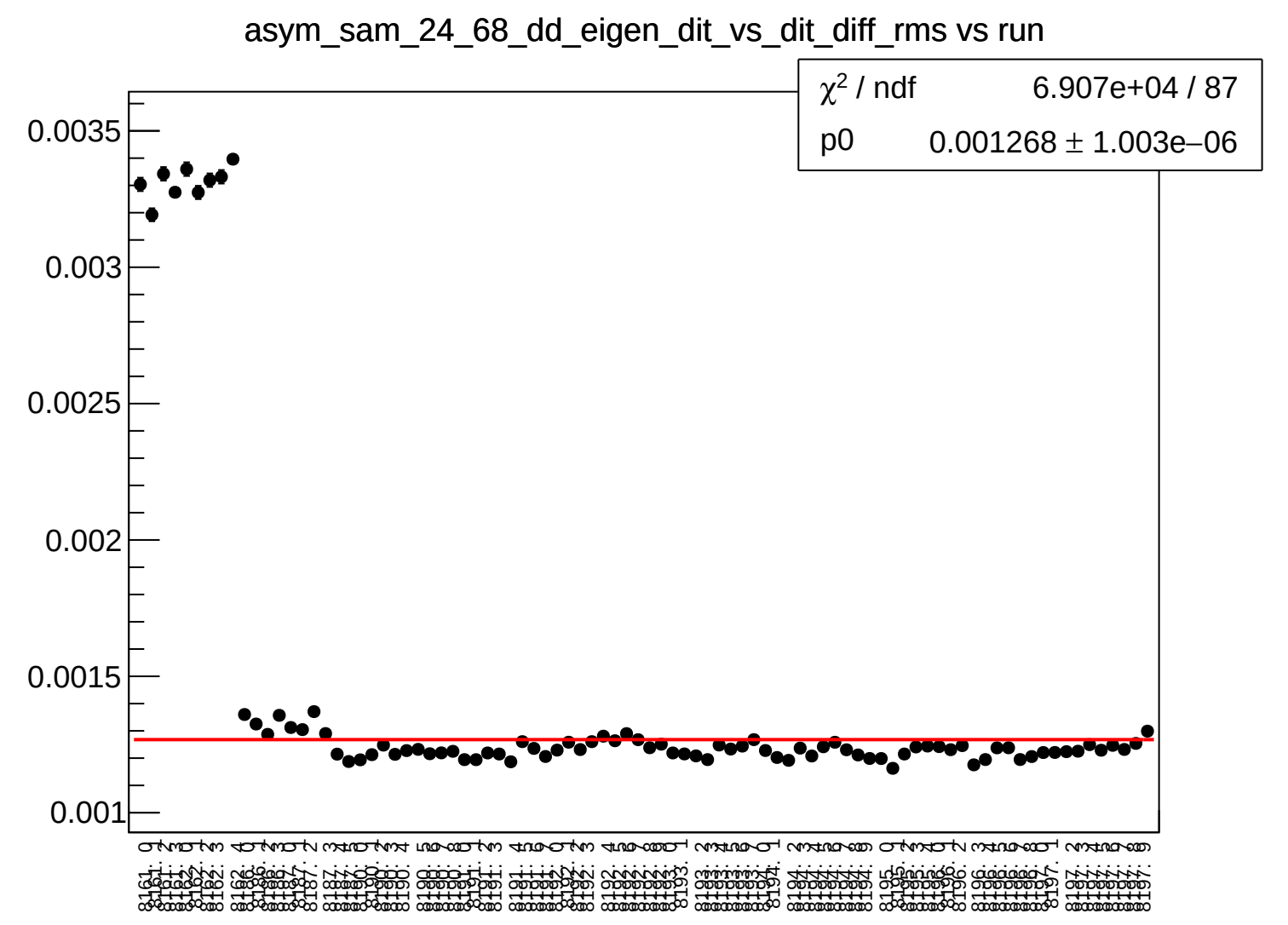

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.191e+04 / 87
p0 66.59 ± 0.05272
90
80
70
60
50
40

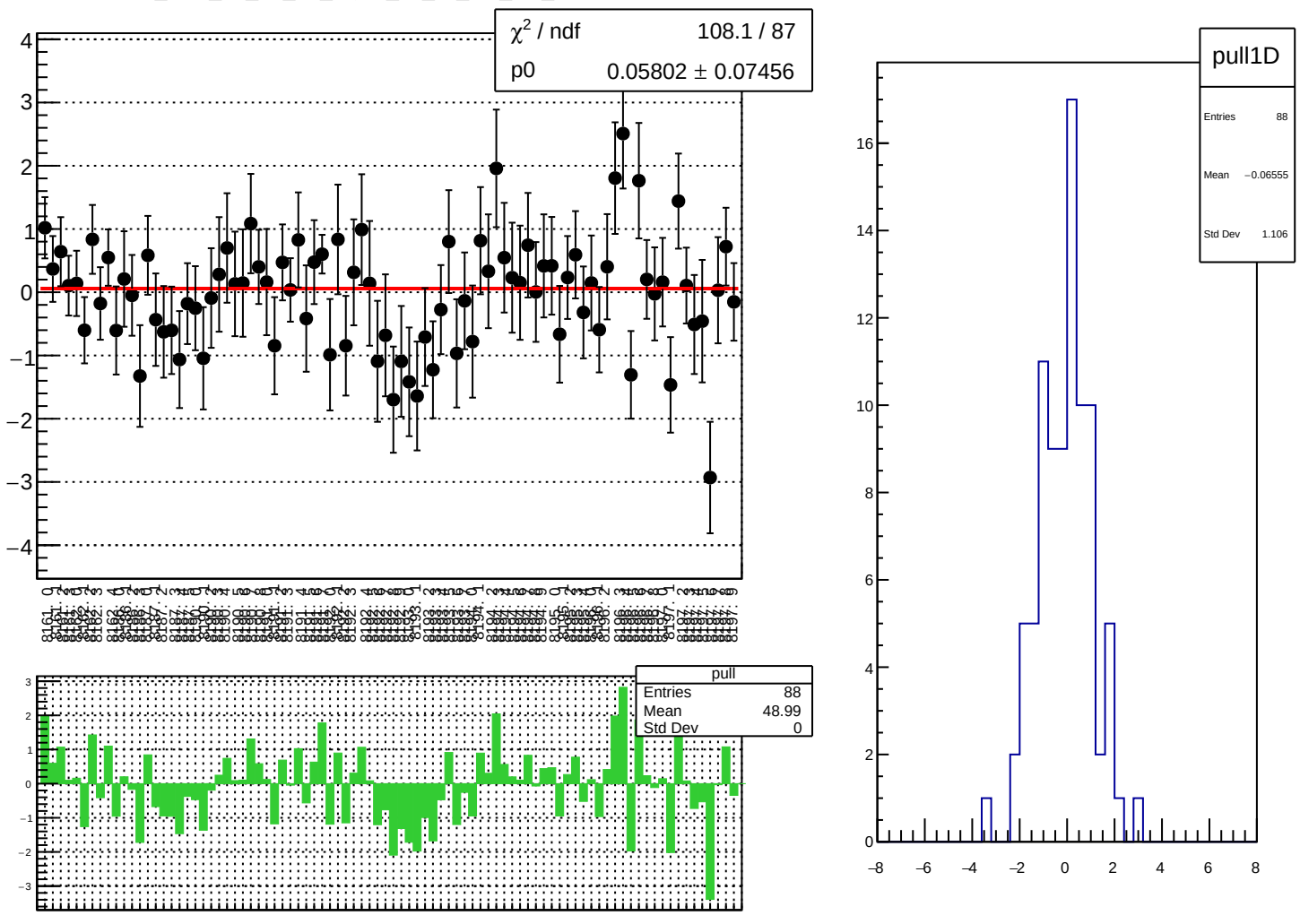

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.1 / 87
p0 0.05802 ± 0.07456
pull
Entries 88
Mean 48.99
Std Dev 0

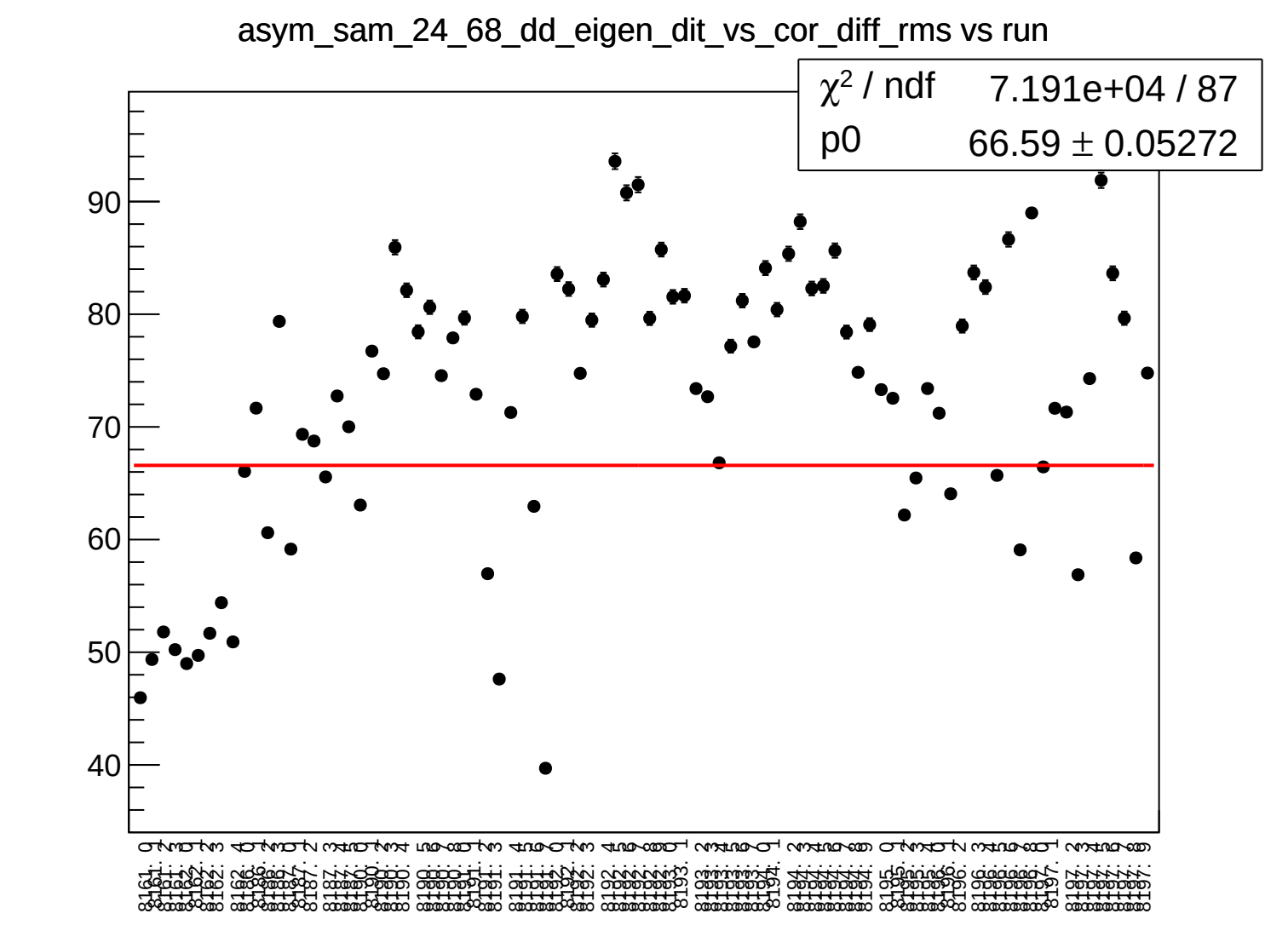

pull1D
Entries 88
Mean −0.06555
Std Dev 1.106

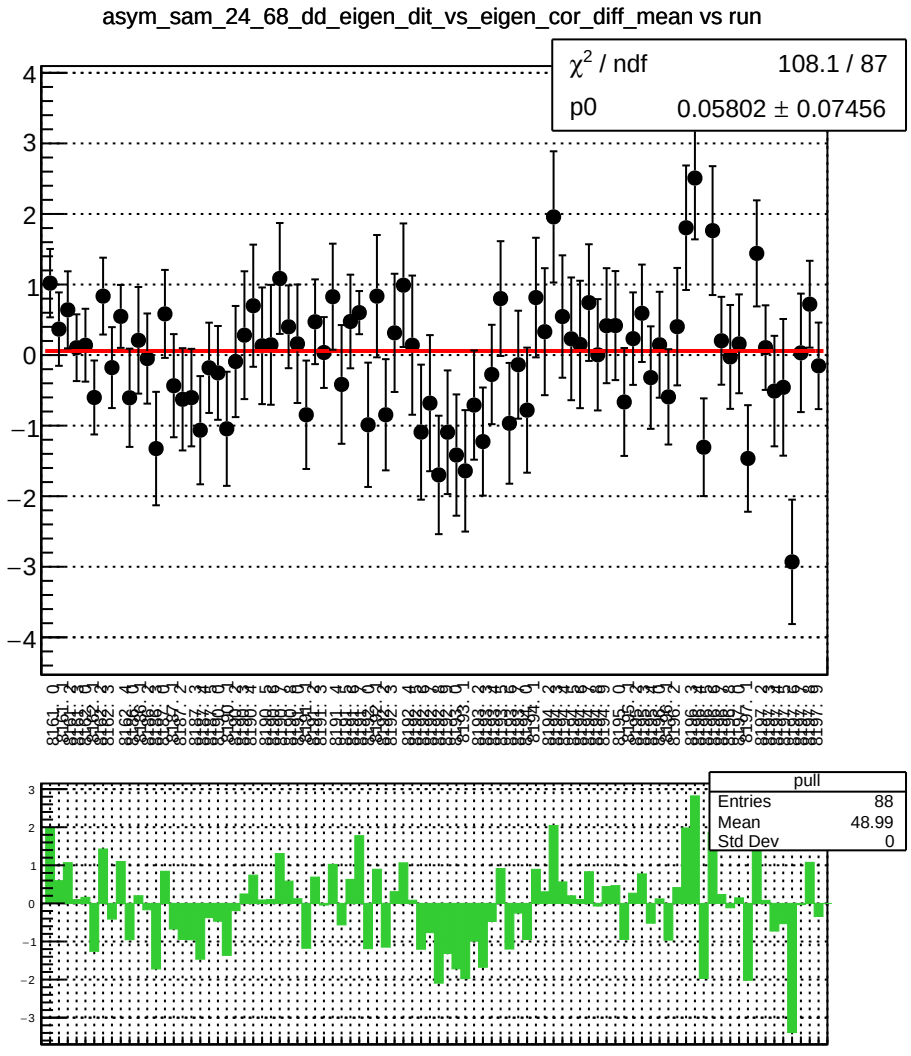

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.191e+04 / 87
p0 66.59 ± 0.05272
90
80
70
60
50
40

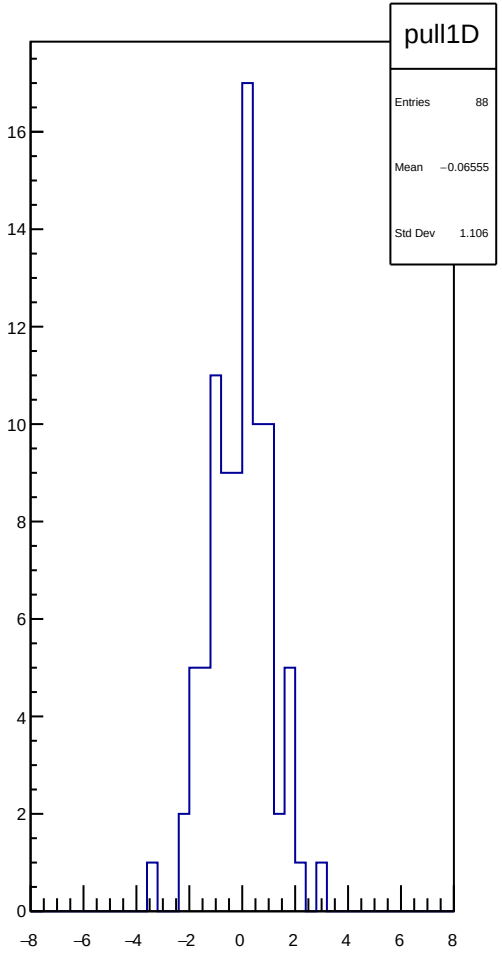

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.62 / 87
p0 8.634e−06 ± 1.418e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −223.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01862
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

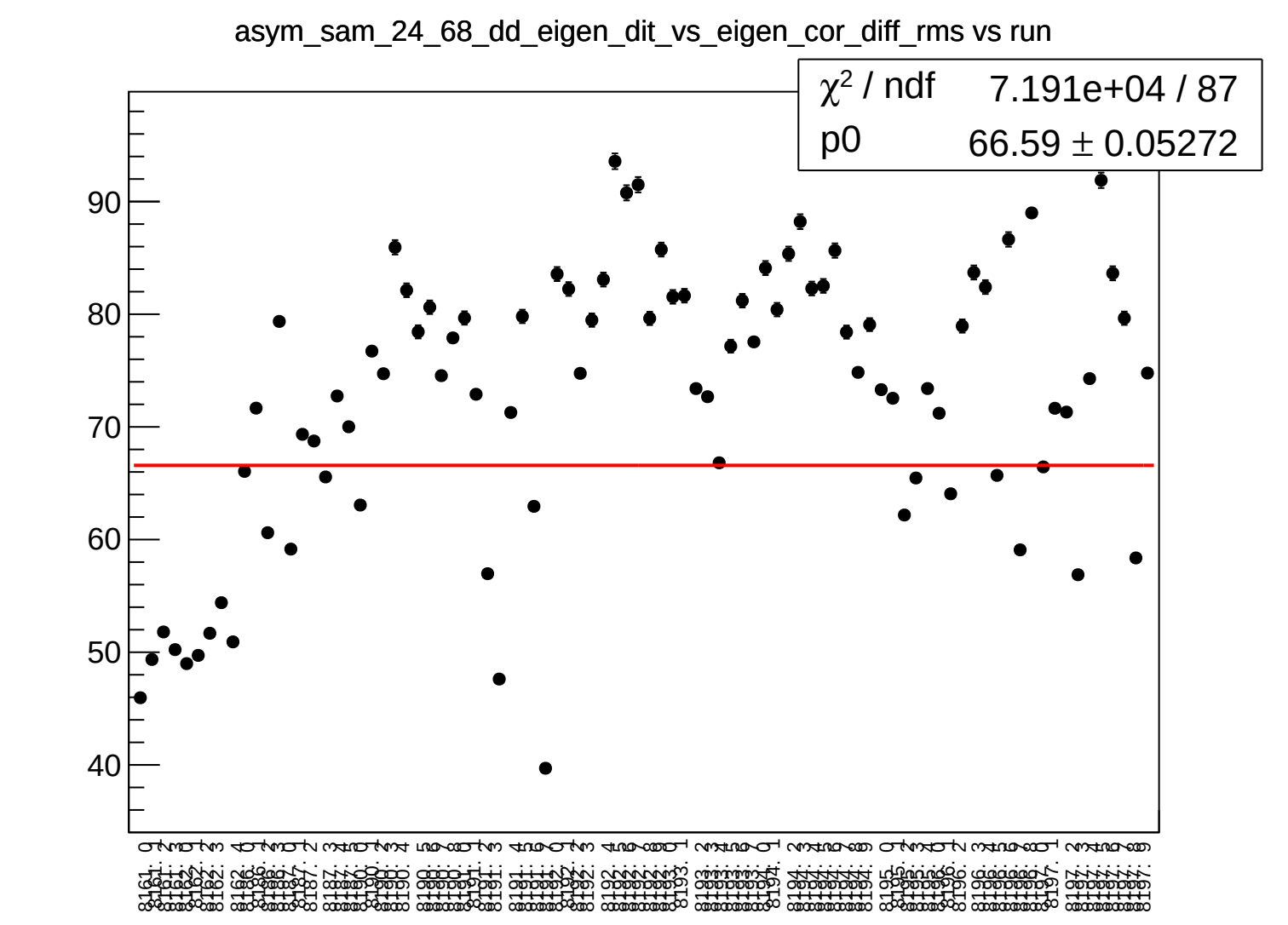

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.907e+04 / 87
p0 0.001268 ± 1.003e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

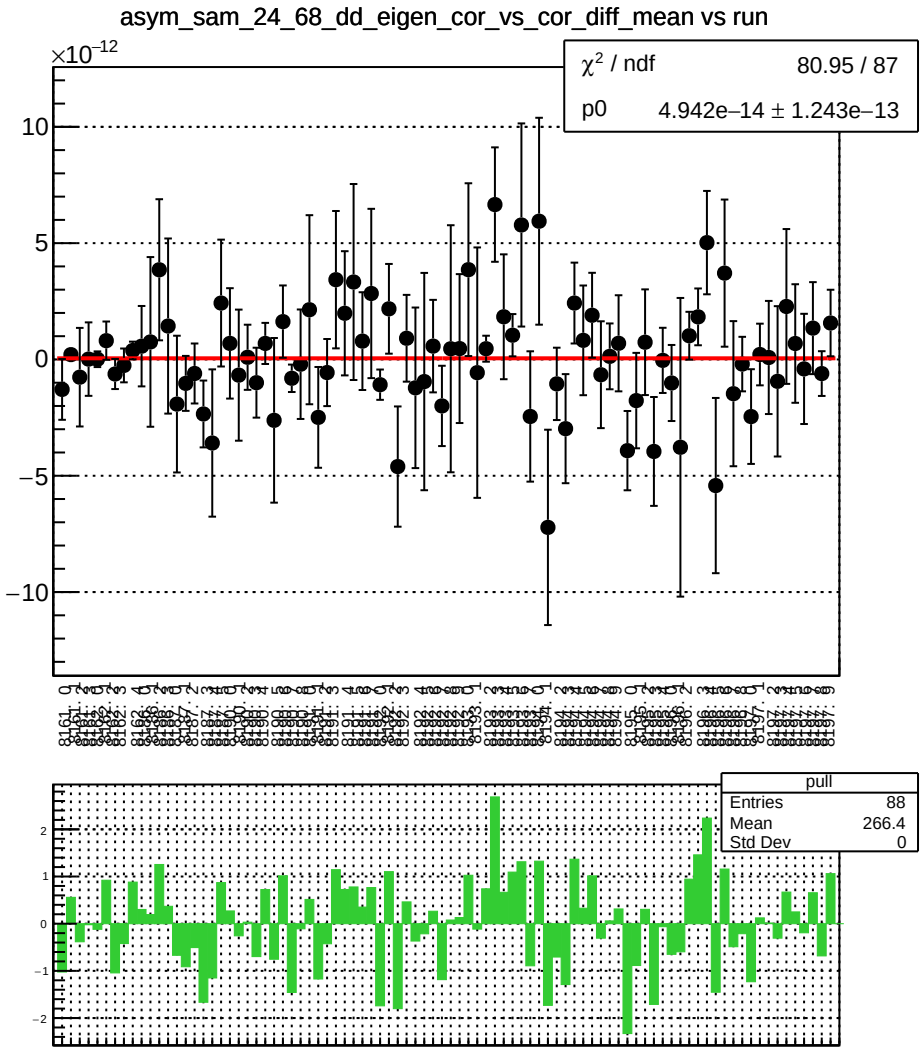

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 87
p0 0.05802 ± 0.07456
pull
Entries 88
Mean 48.99
Std Dev 0
pull1D
Entries 88
Mean −0.06555
Std Dev 1.106

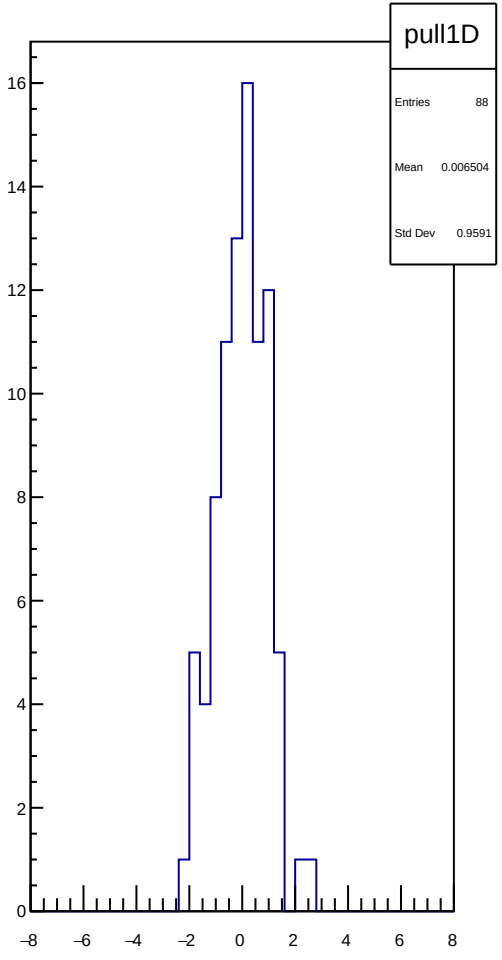

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.191e+04 / 87
p0 66.59 ± 0.05272
90
80
70
60
50
40

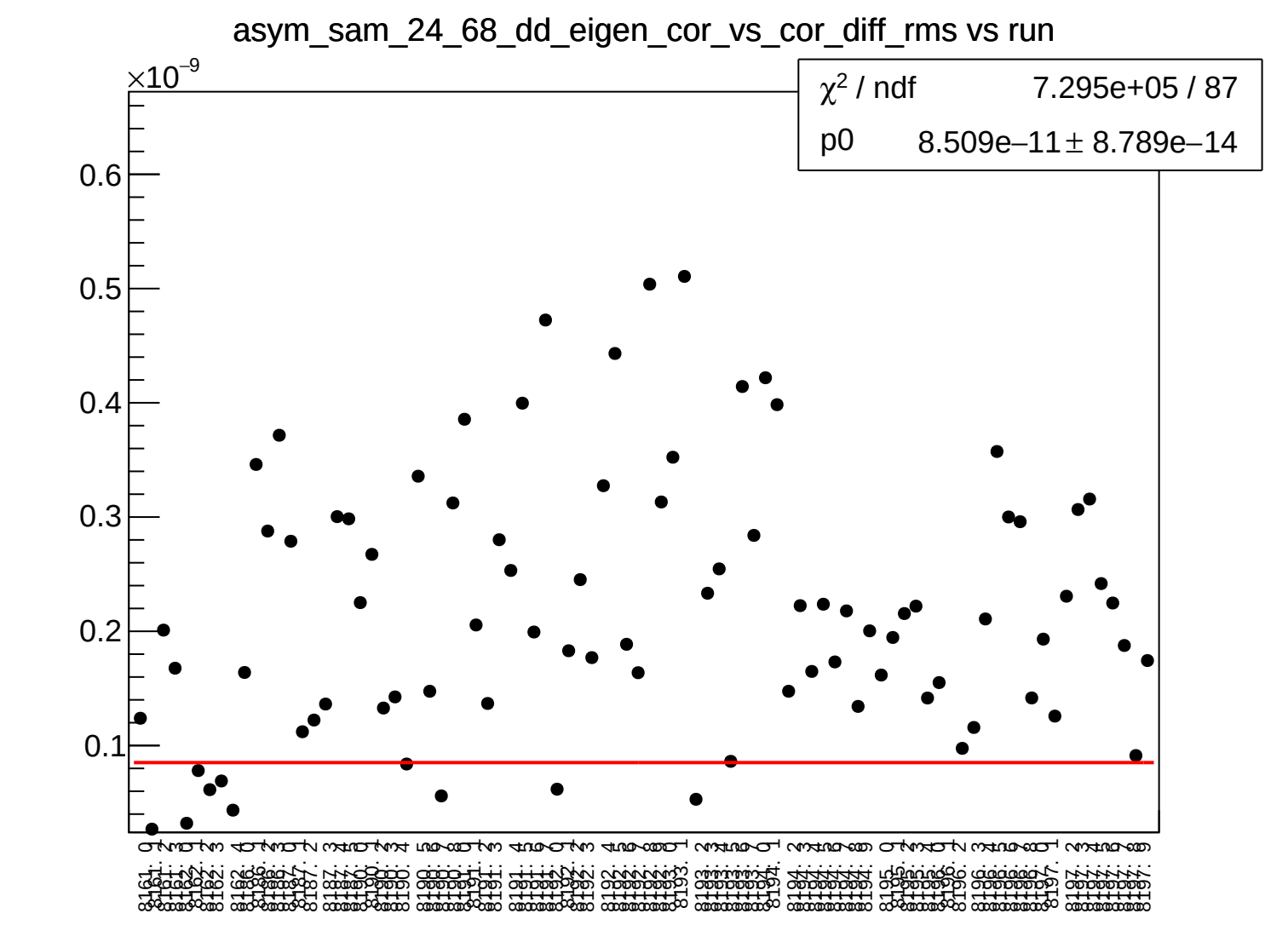

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.1 / 87
p0 0.05802 ± 0.07456
pull
Entries 88
Mean 48.99
Std Dev 0

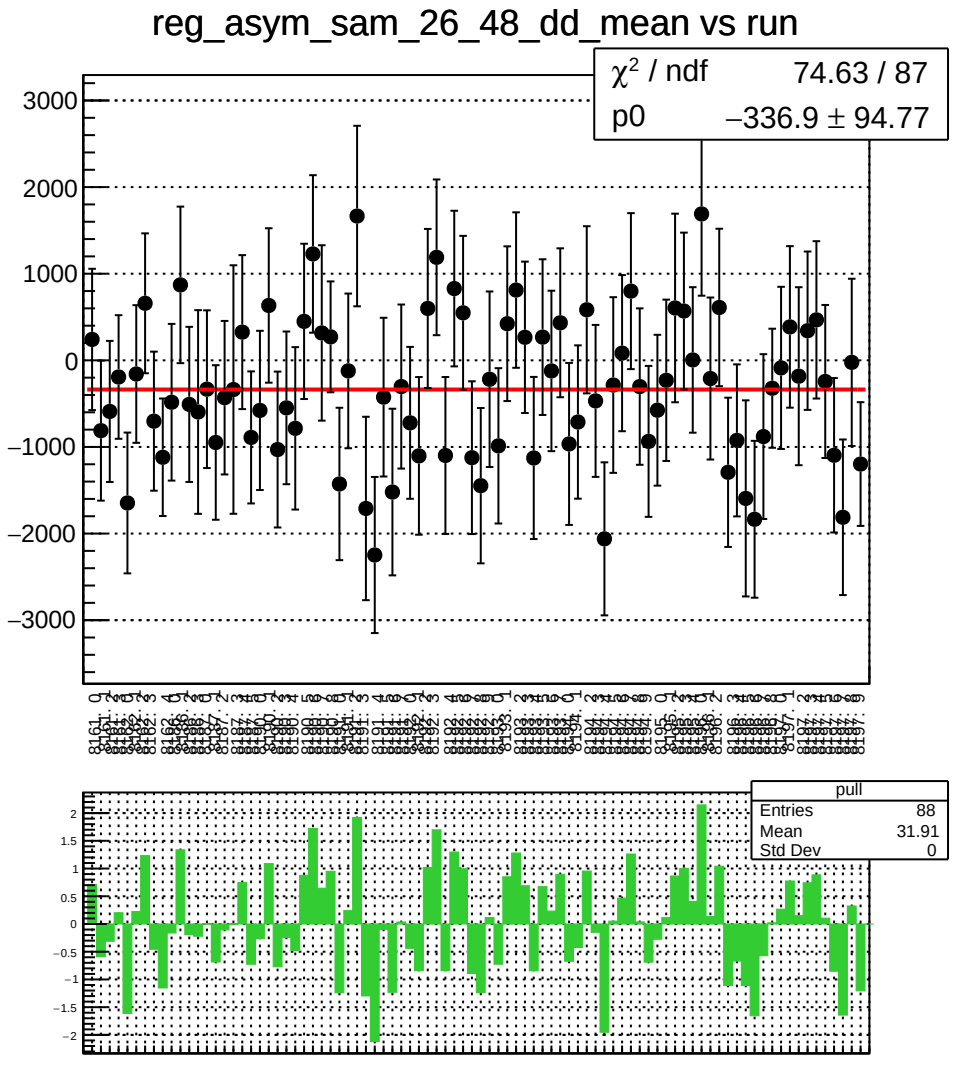

pull1D
Entries 88
Mean −0.06555
Std Dev 1.106

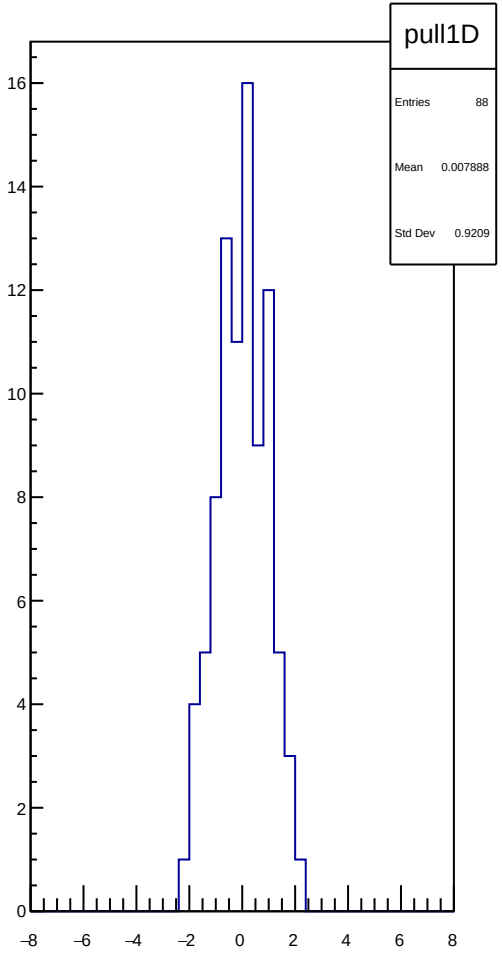

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.191e+04 / 87
p0 66.59 ± 0.05272
90
80
70
60
50
40

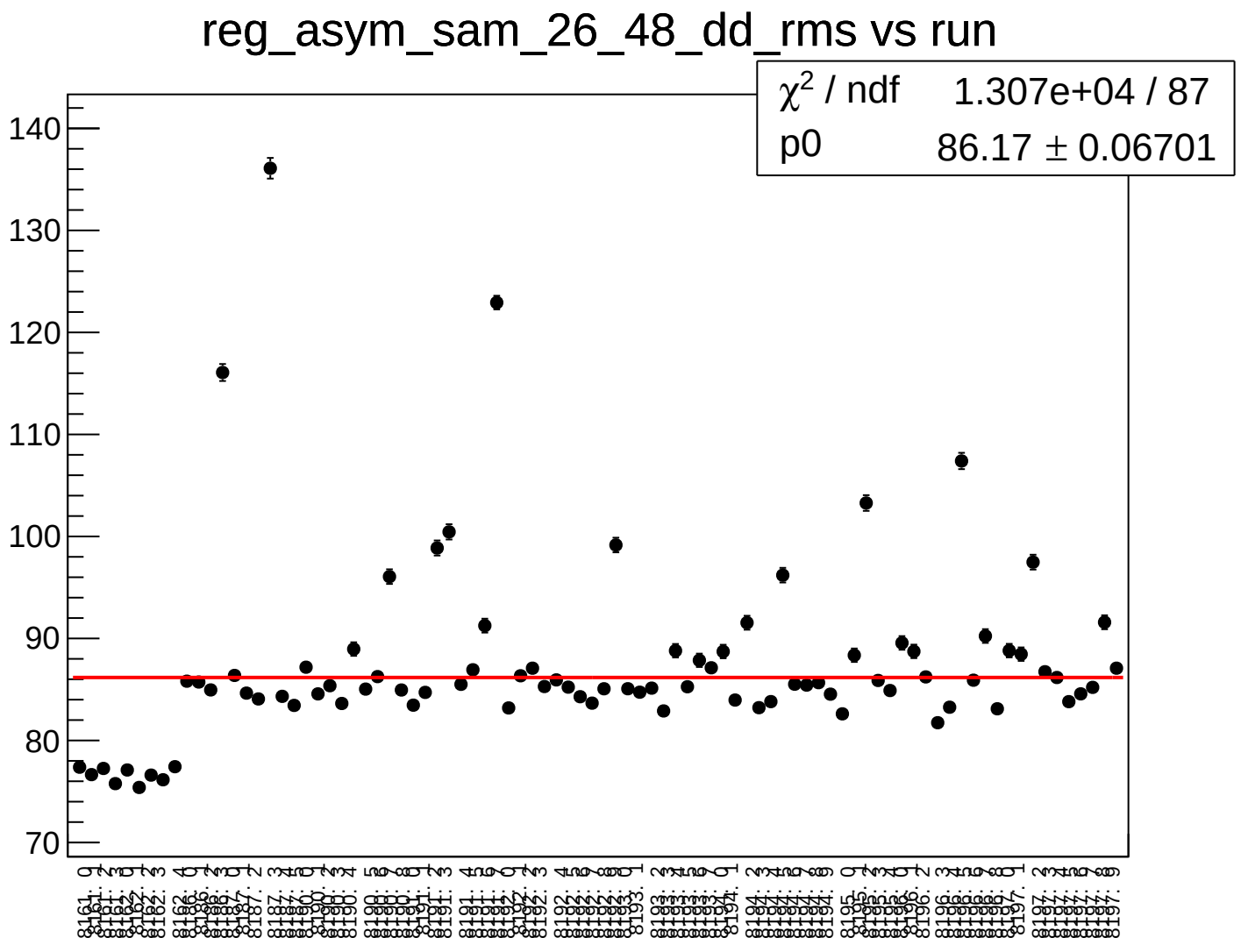

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.95 / 87
p0 4.942e−14 ± 1.243e−13
pull
Entries 88
Mean 266.4
Std Dev 0

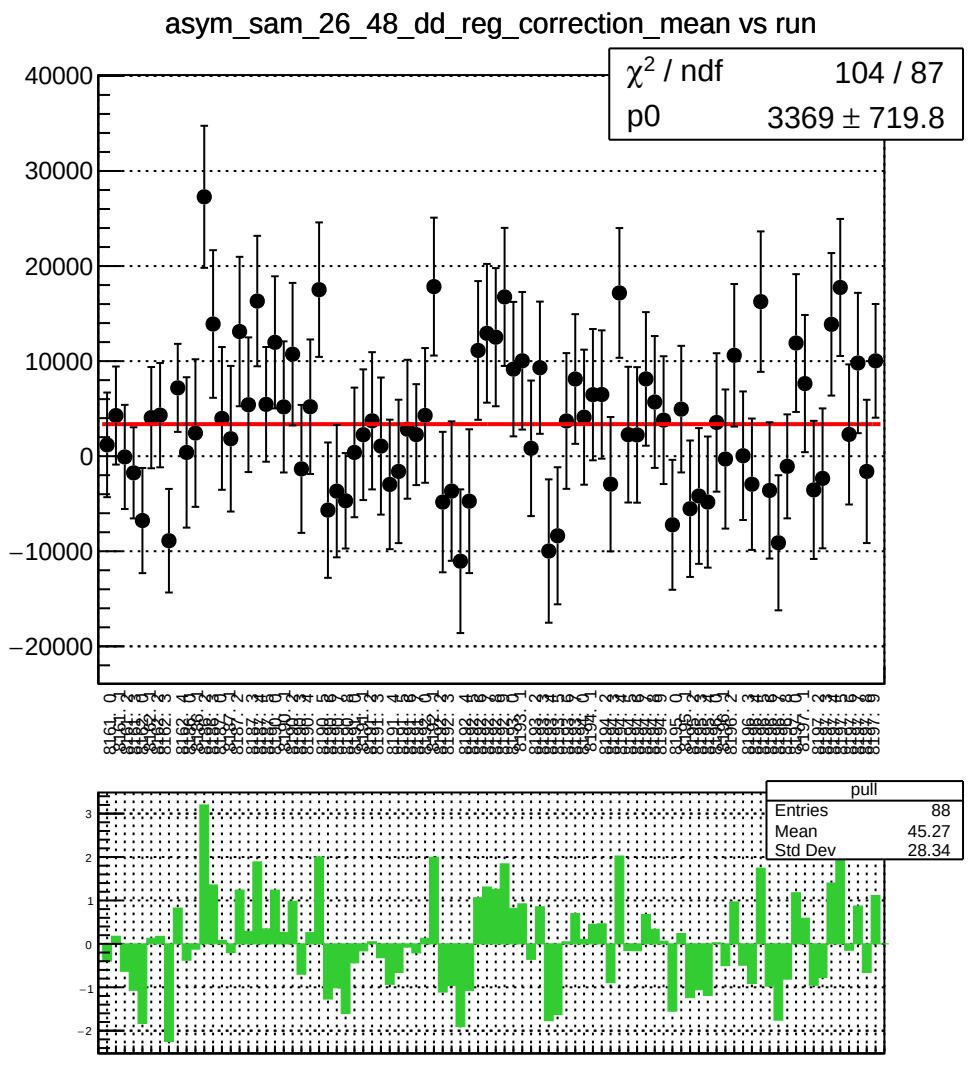

pull1D
Entries 88
Mean 0.006504
Std Dev 0.9591

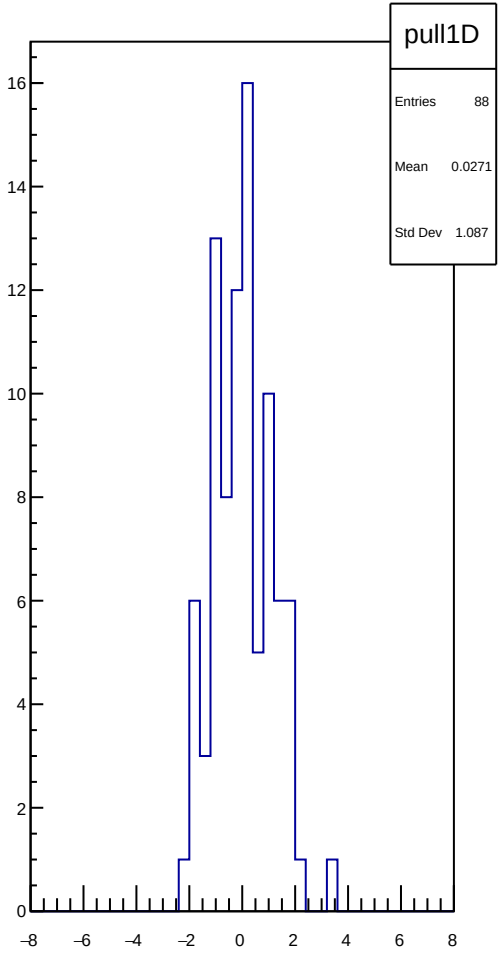

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.295e+05 / 87
p0 8.509e−11 ± 8.789e−14
0.6
0.5
0.4
0.3
0.2
0.1

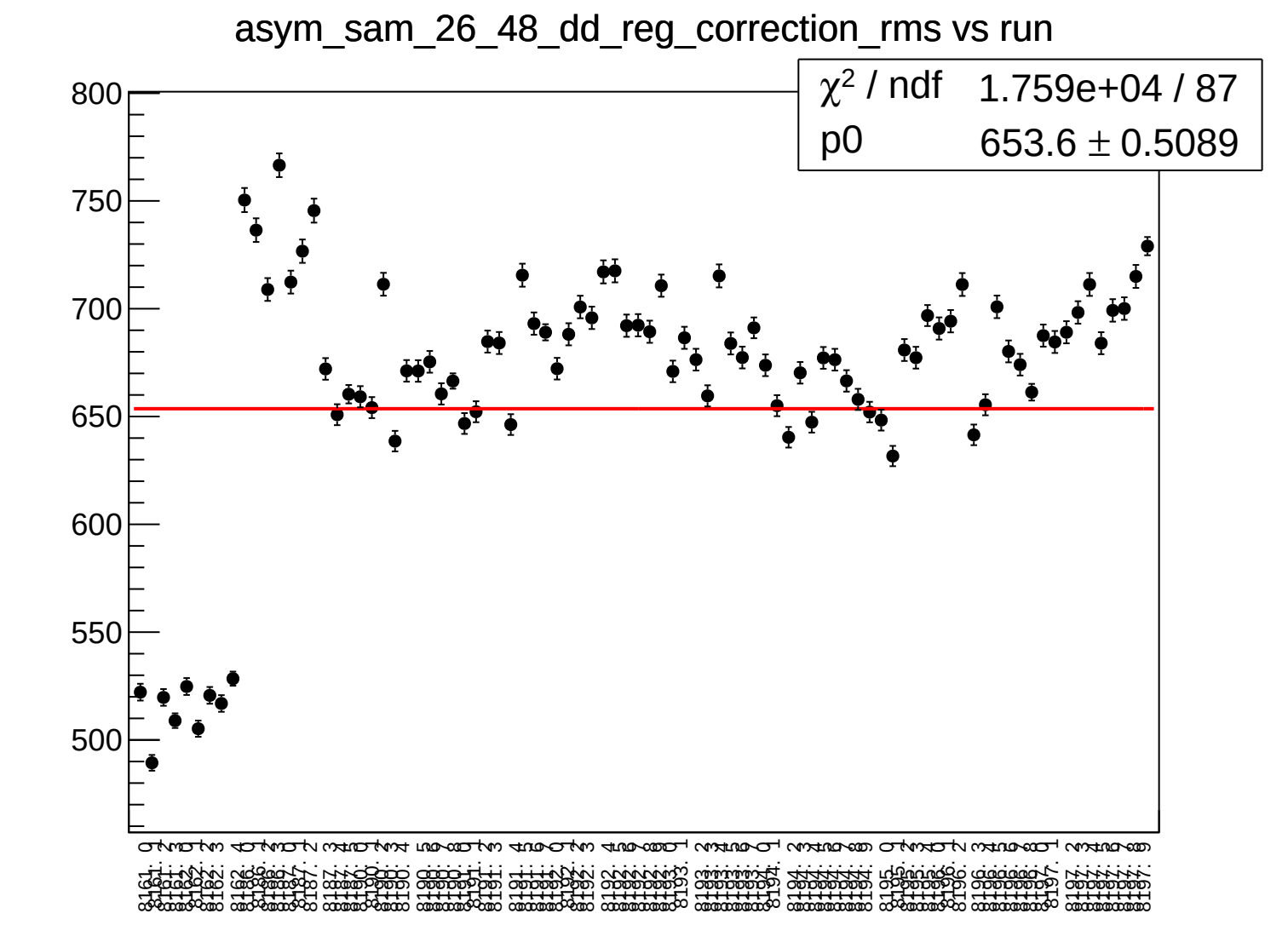

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 74.63 / 87
p0 −336.9 ± 94.77
pull
Entries 88
Mean 31.91
Std Dev 0

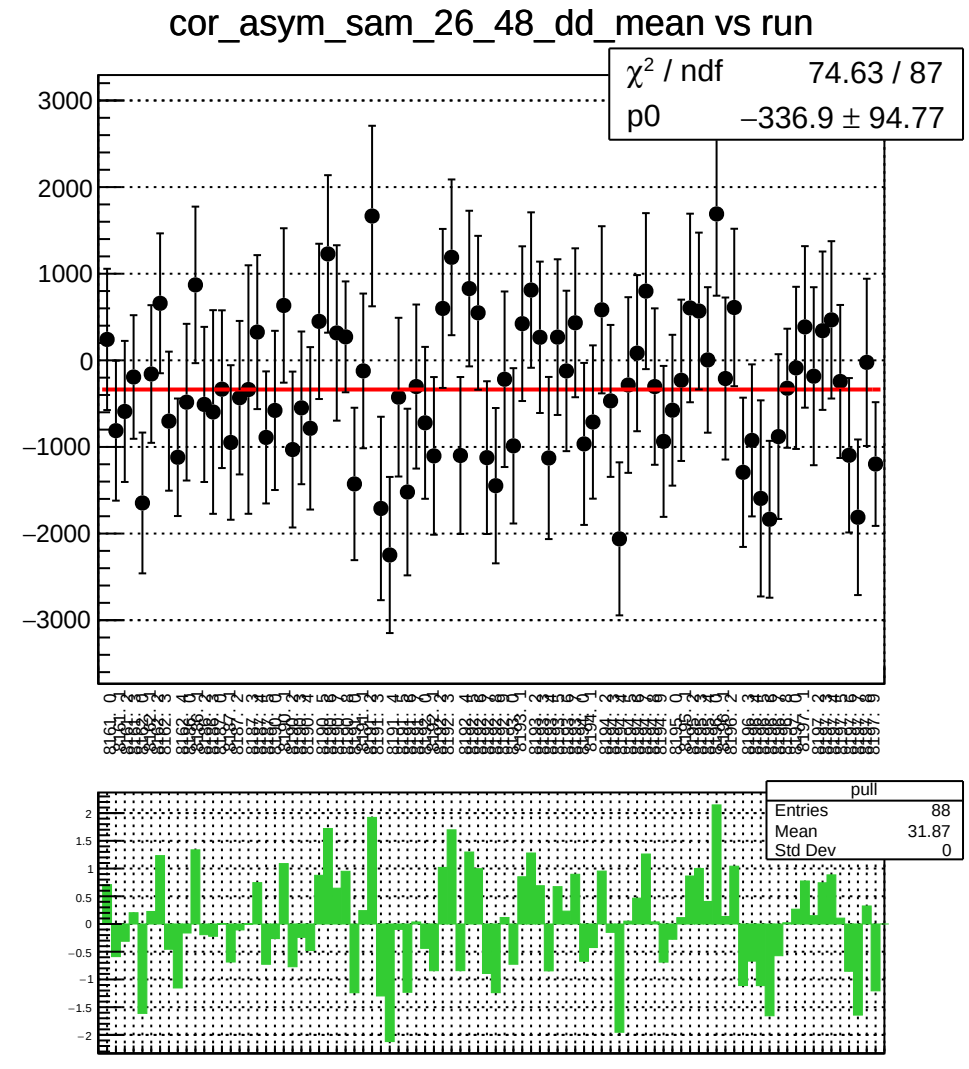

pull1D
Entries 88
Mean 0.007888
Std Dev 0.9209

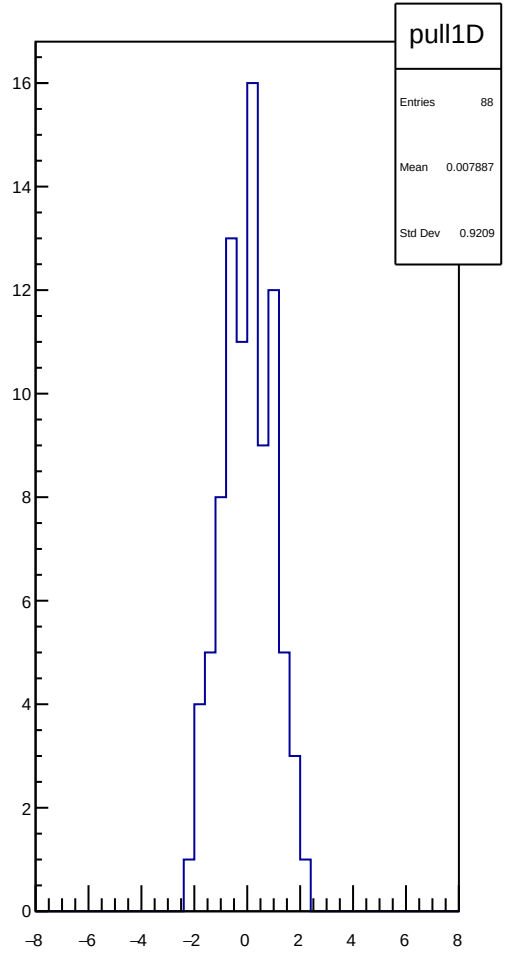

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.307e+04 / 87
p0 86.17 ± 0.06701
140
130
120
110
100
90
80
70

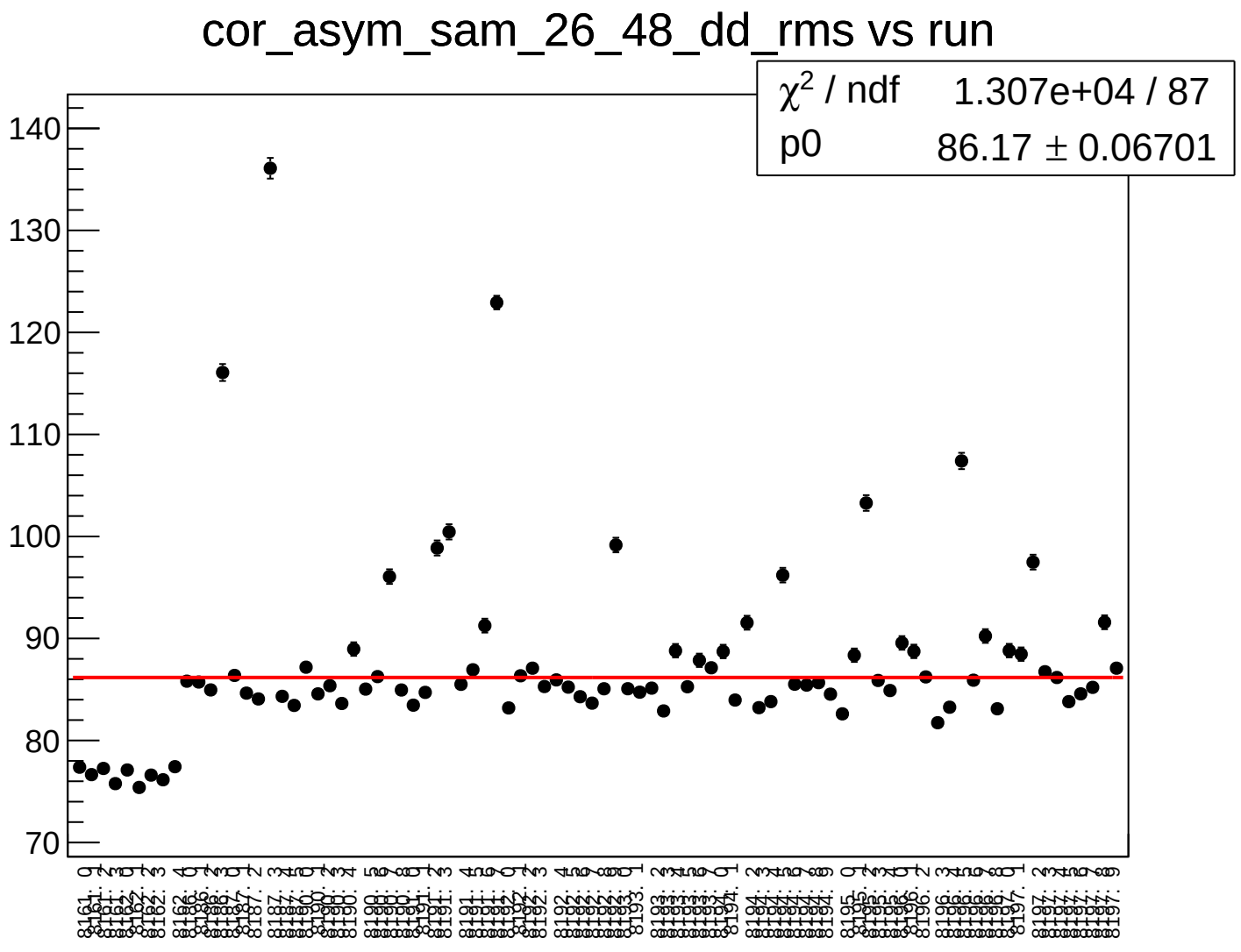

asym_sam_26_48_dd_reg_correction_mean vs run
χ^2 / ndf 104 / 87
p0 3369 ± 719.8
pull
Entries 88
Mean 45.27
Std Dev 28.34

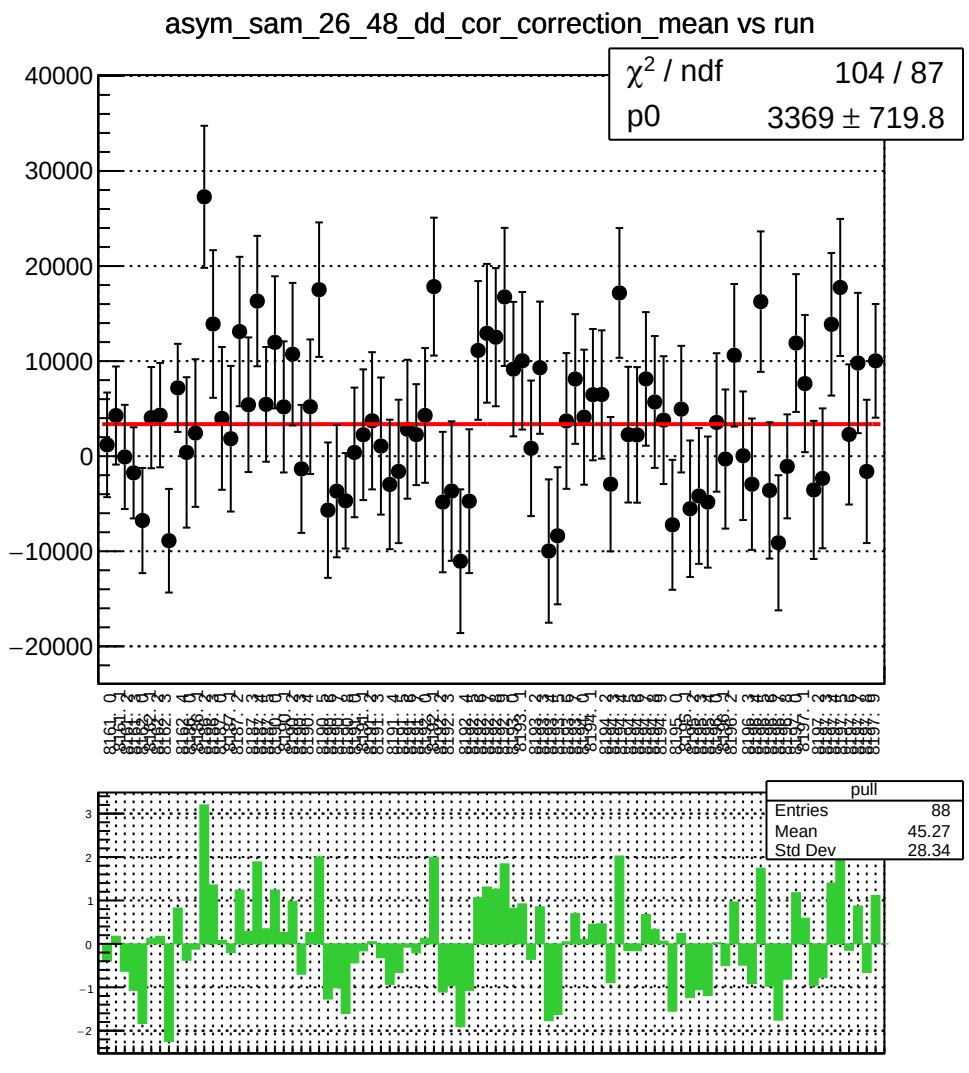

pull1D
Entries 88
Mean 0.0271
Std Dev 1.087

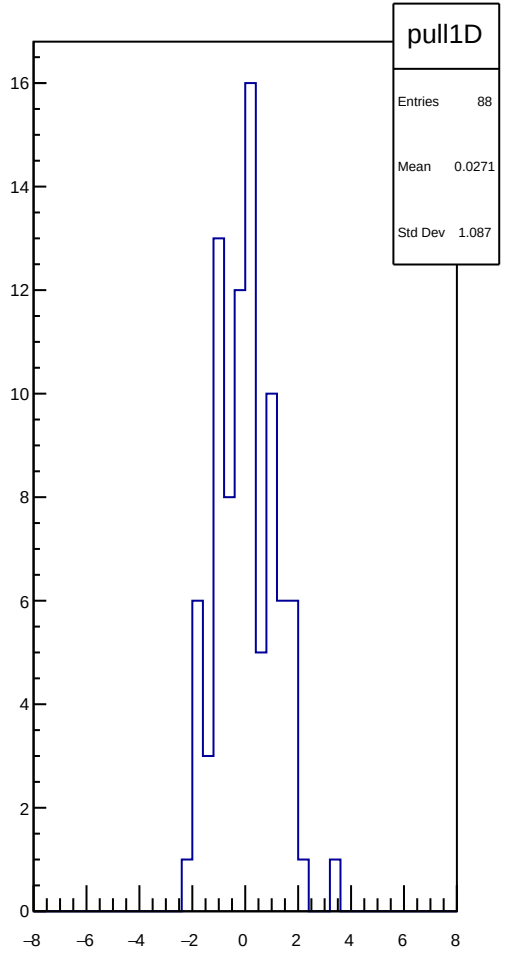

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.759e+04 / 87
p0 653.6 ± 0.5089
800
750
700
650
600
550
500

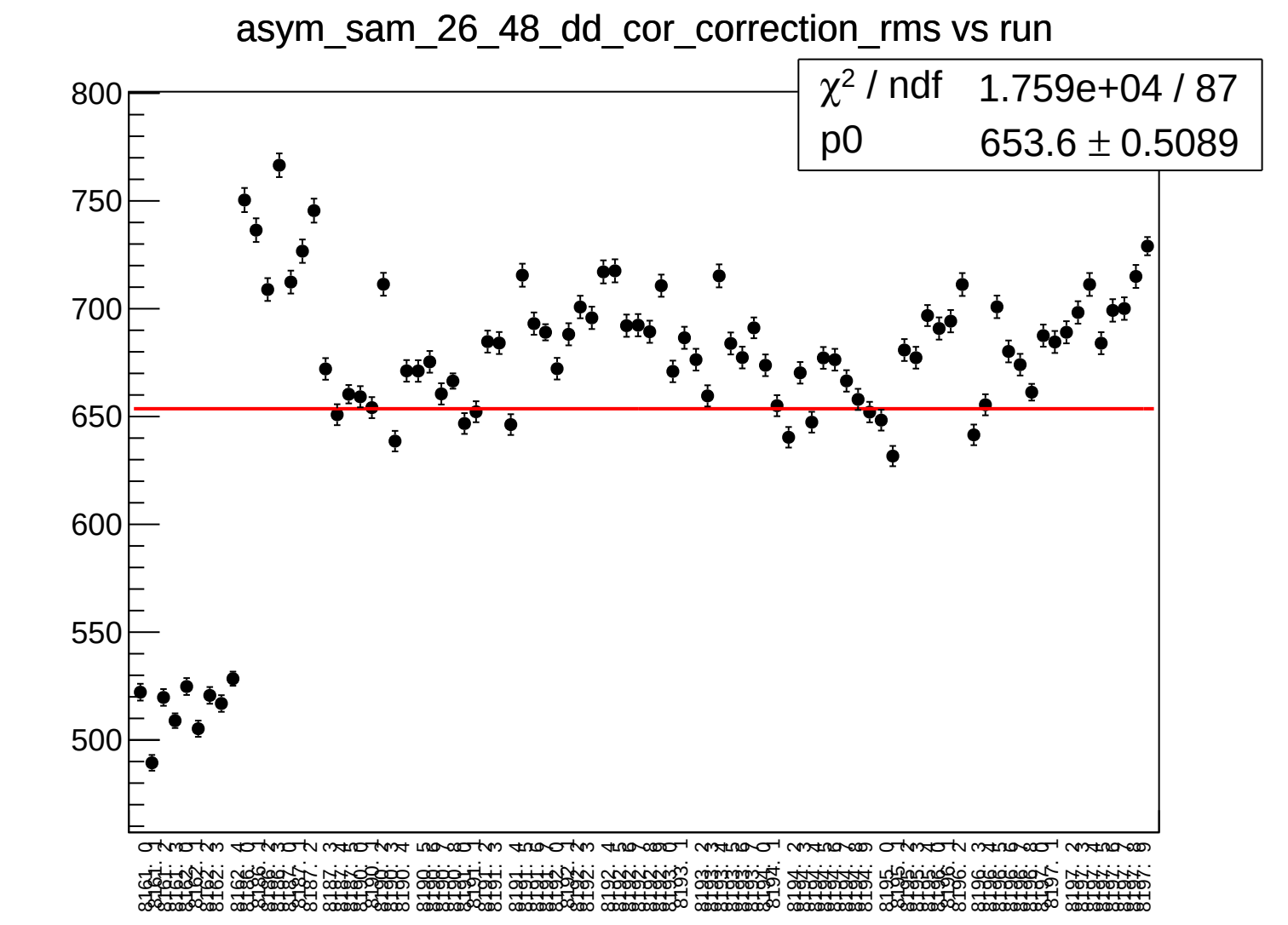

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 74.63 / 87
p0 −336.9 ± 94.77
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 31.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

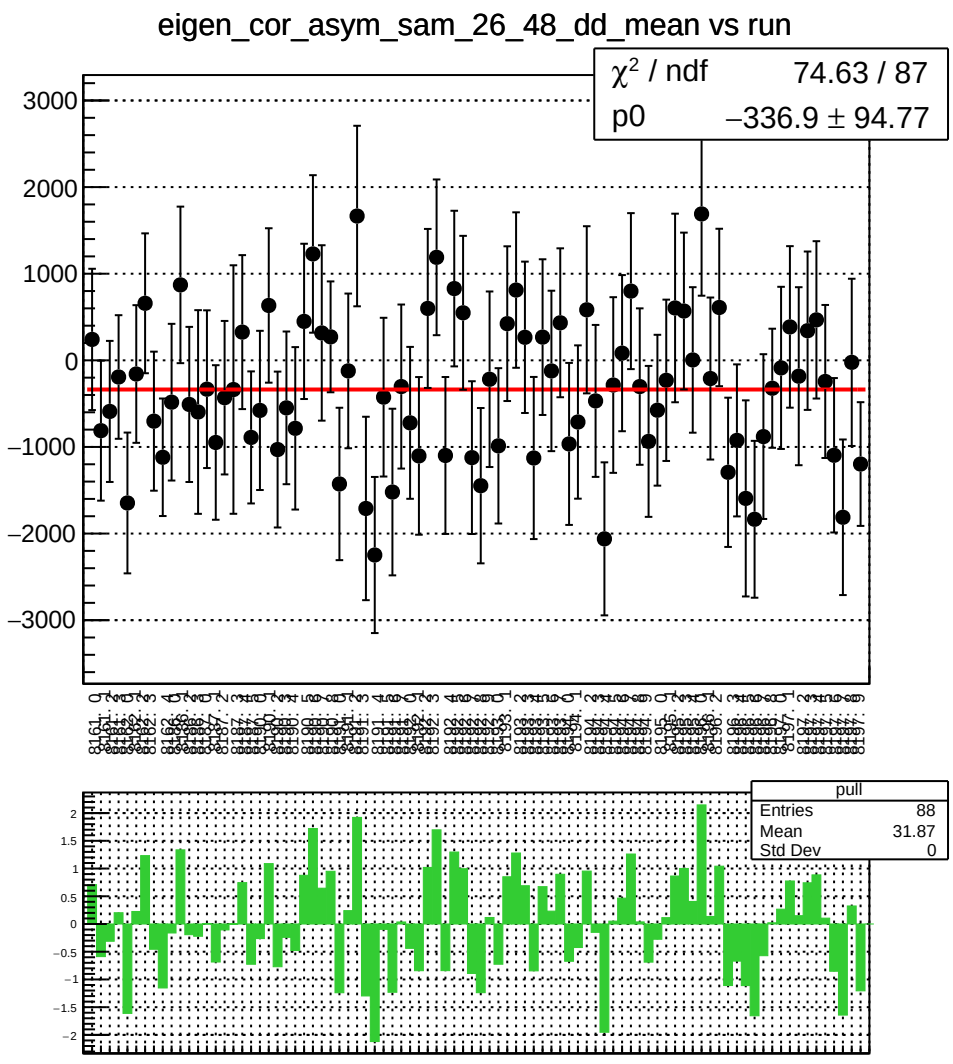

pull1D
Entries 88
Mean 0.007887
Std Dev 0.9209
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

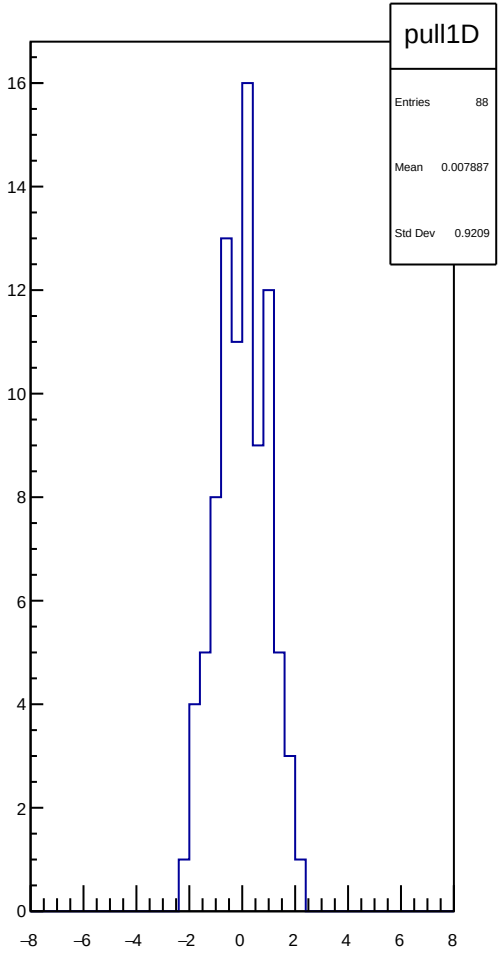

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.307e+04 / 87
p0 86.17 ± 0.06701
140
130
120
110
100
90
80
70

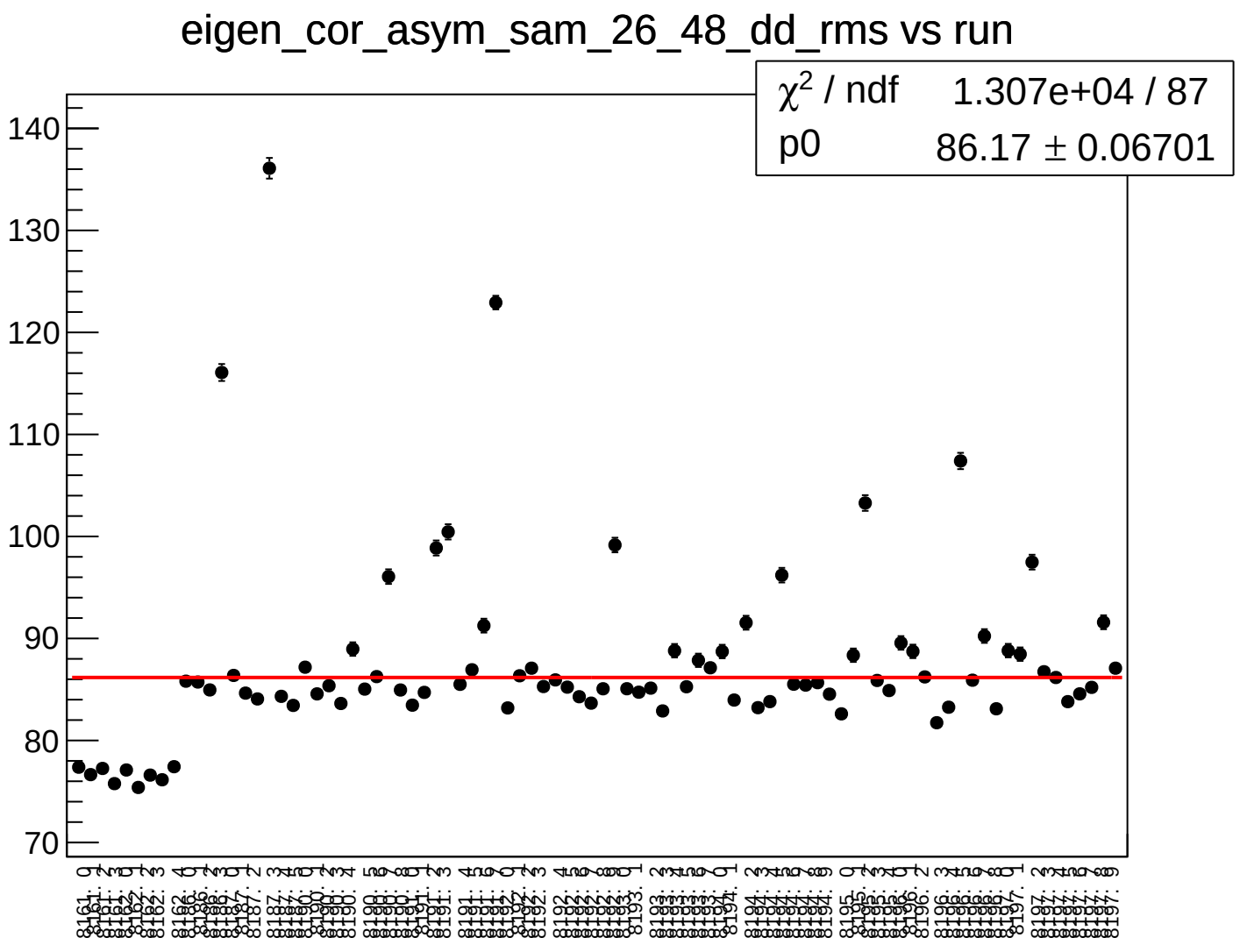

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 104 / 87
p0 3369 ± 719.8
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 45.27
Std Dev 28.34
3
2
1
0
−1
−2

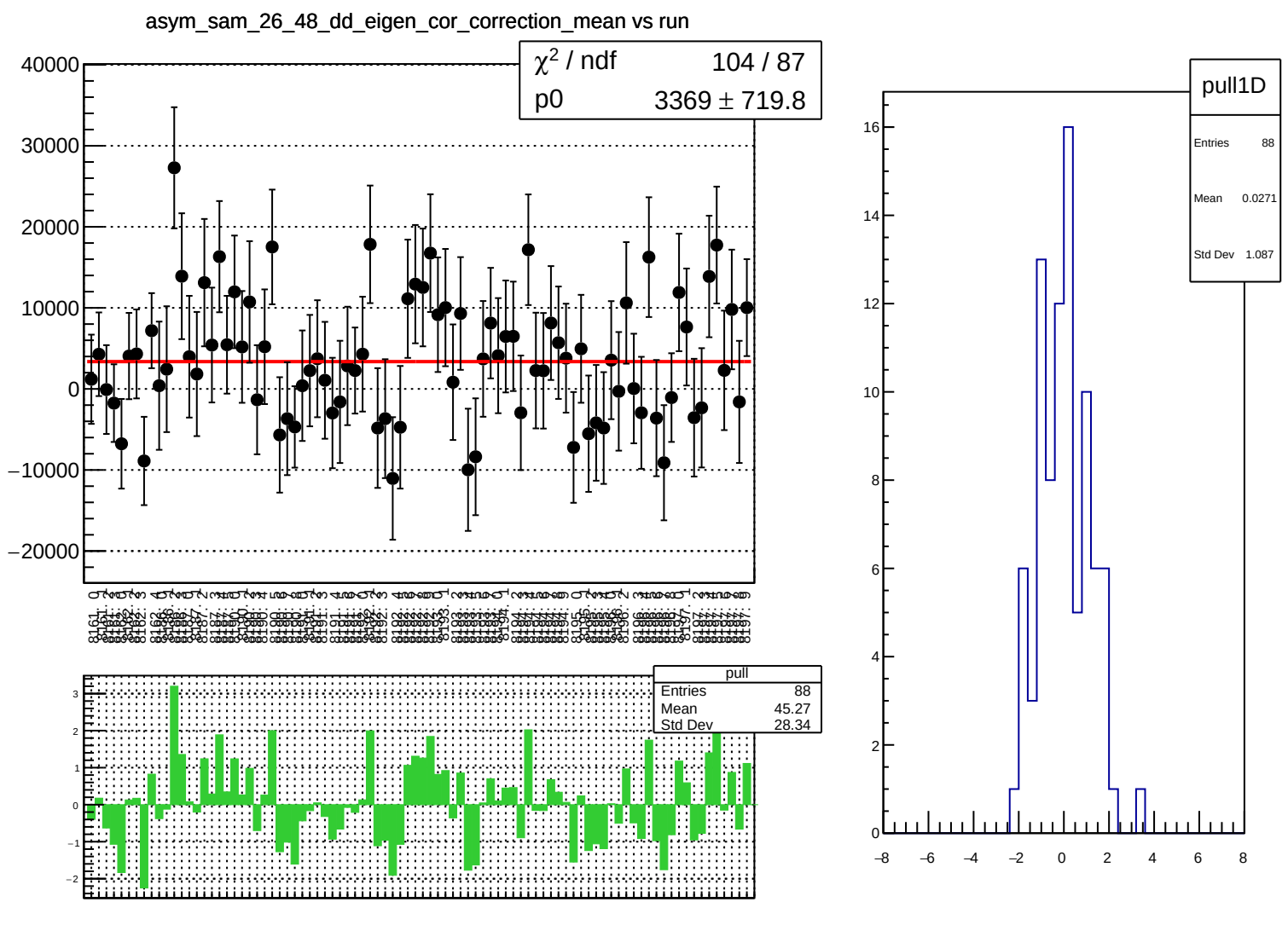

pull1D
Entries 88
Mean 0.0271
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

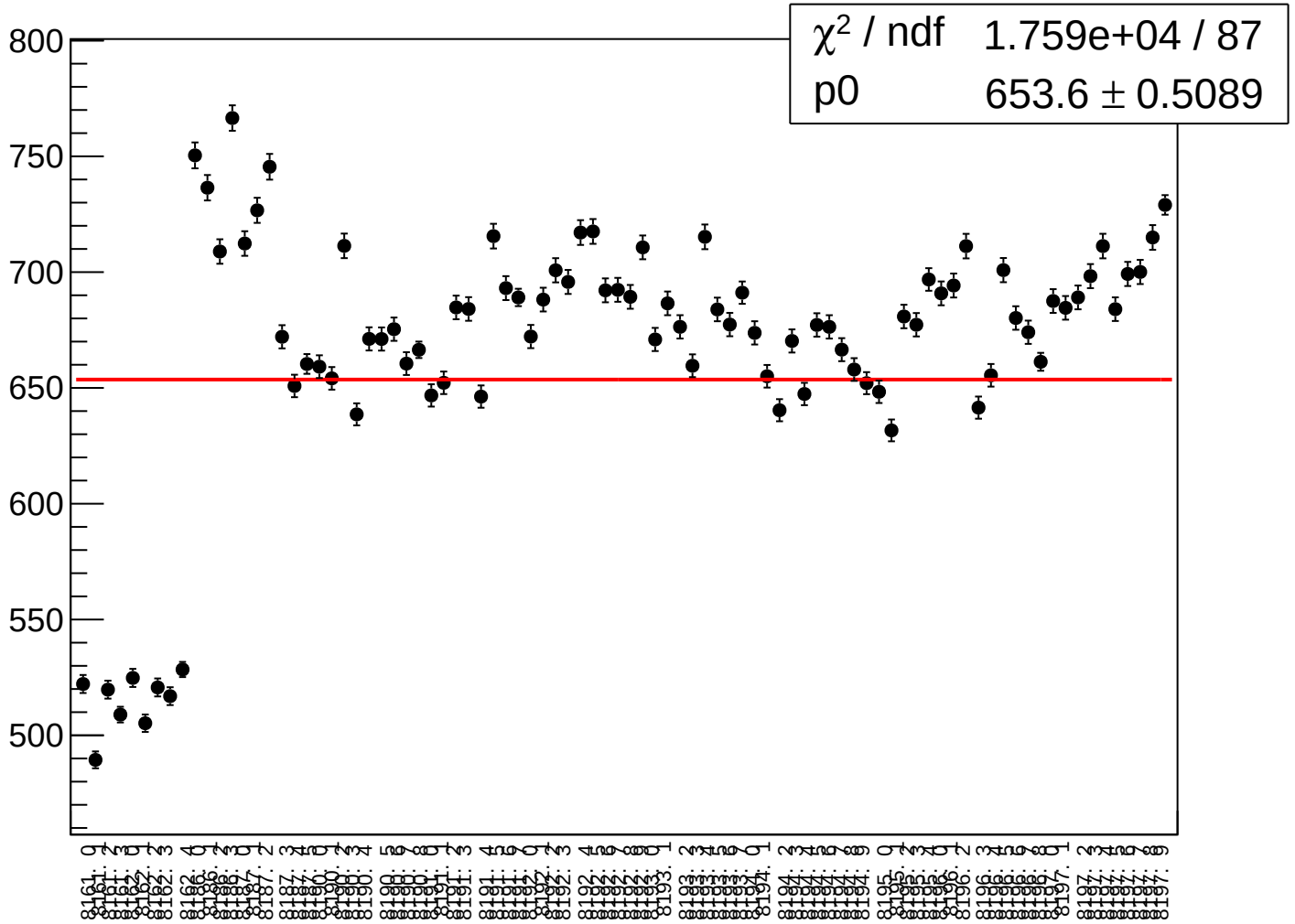

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.759e+04 / 87
p0 653.6 ± 0.5089
800
750
700
650
600
550
500

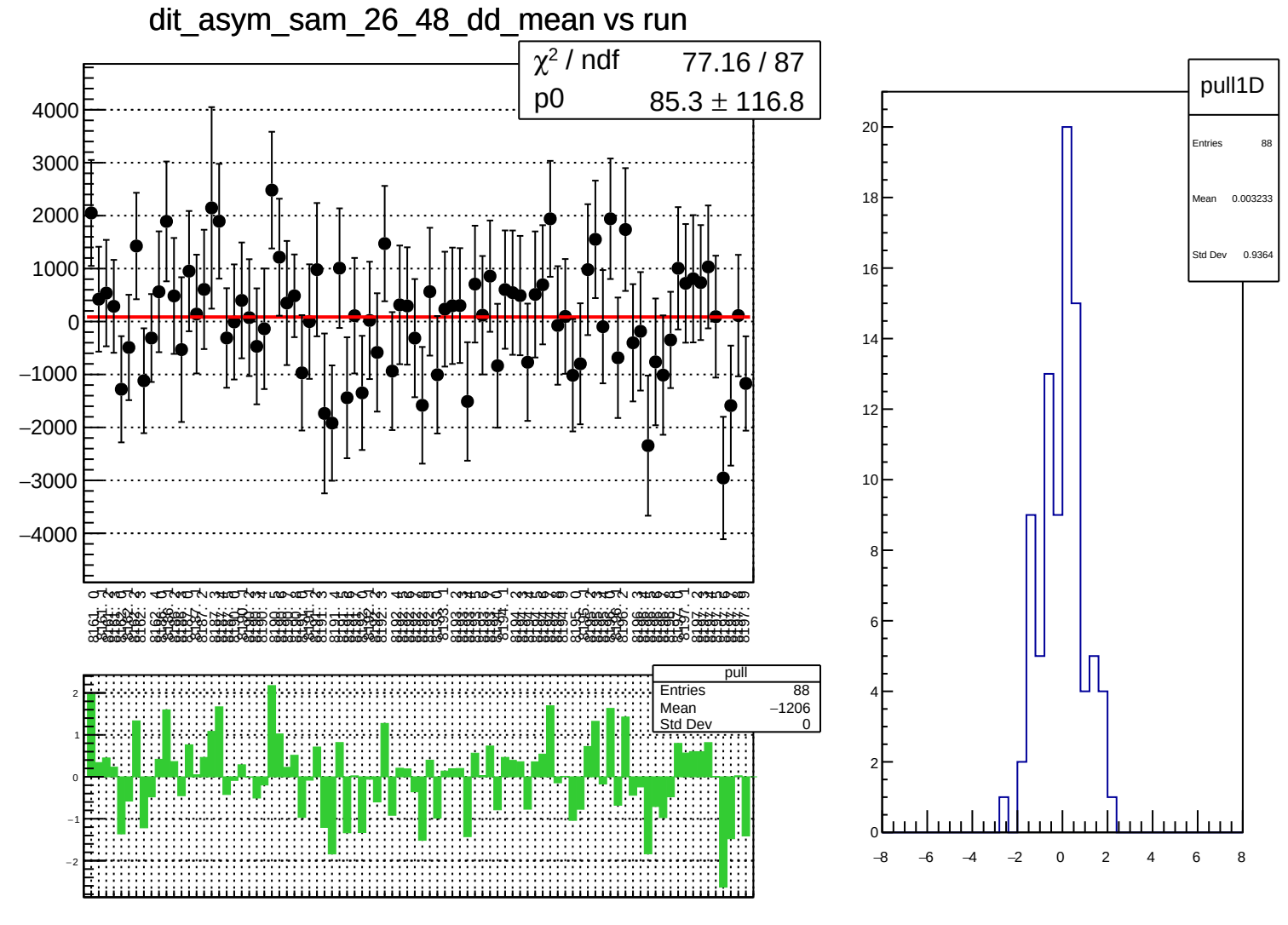

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 74.63 / 87
p0 −336.9 ± 94.77
pull
Entries 88
Mean 31.87
Std Dev 0

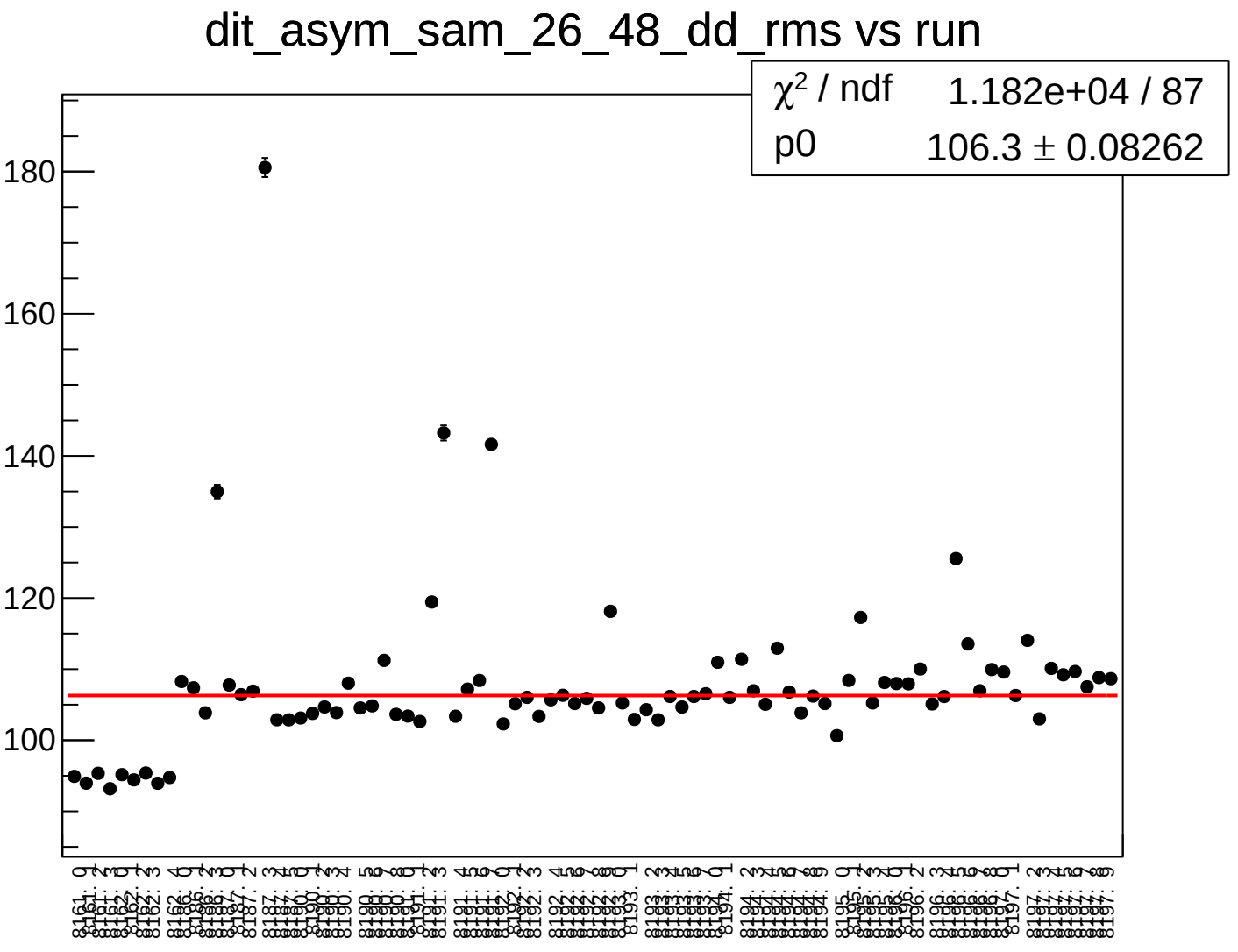

pull1D
Entries 88
Mean 0.007887
Std Dev 0.9209

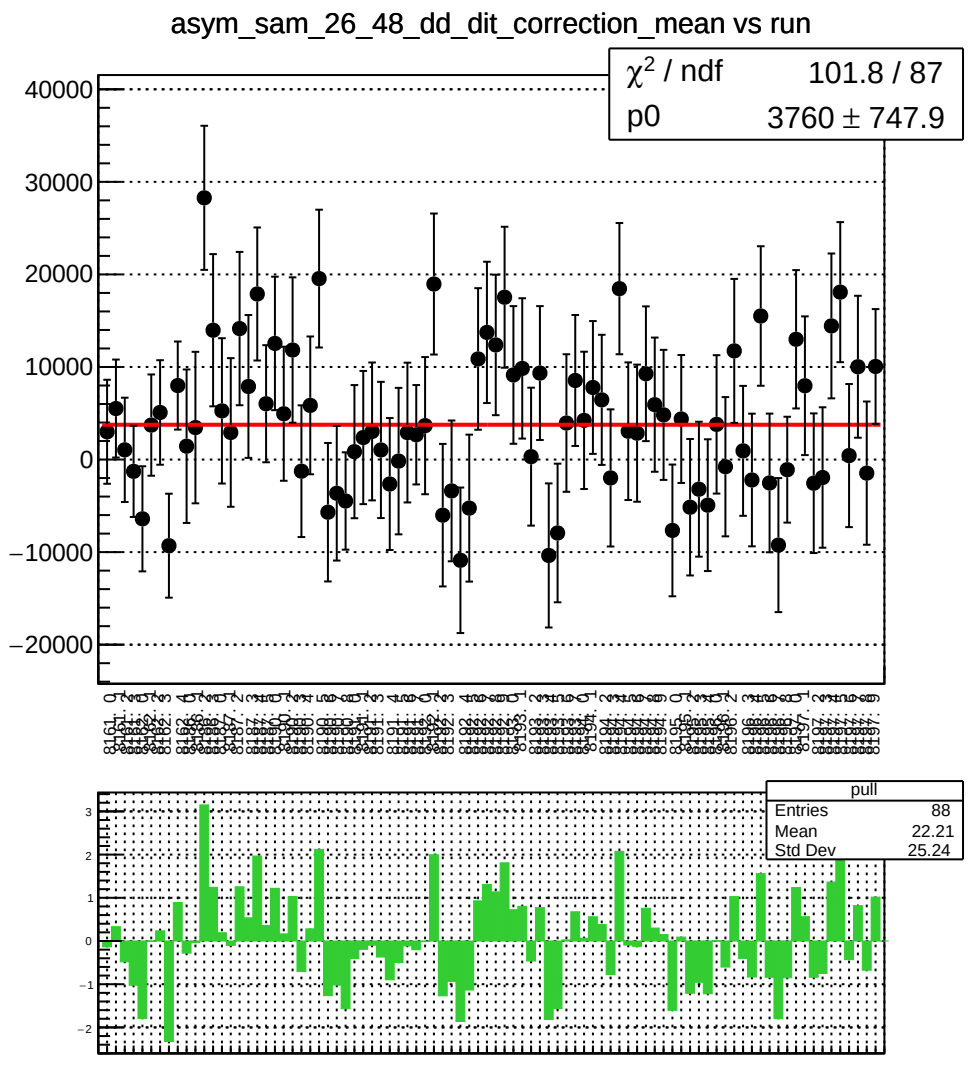

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.307e+04 / 87
p0 86.17 ± 0.06701
140
130
120
110
100
90
80
70

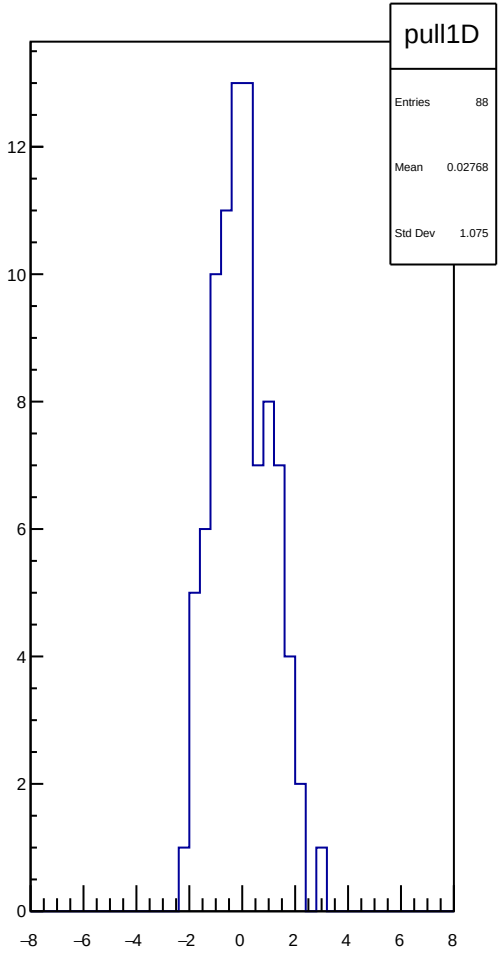

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 104 / 87
p0 3369 ± 719.8
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 45.27
Std Dev 28.34
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0271
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

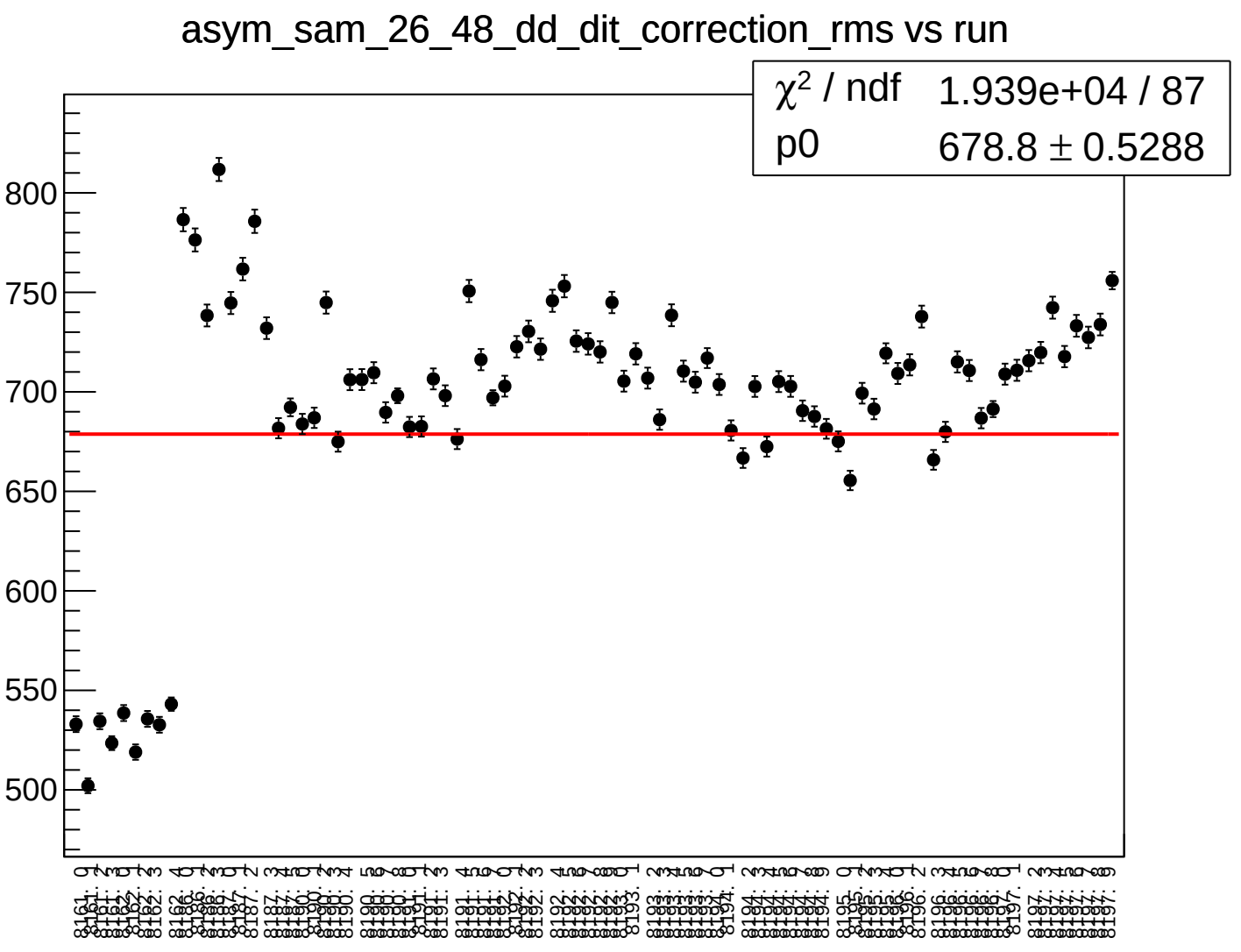

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.759e+04 / 87
p0 653.6 ± 0.5089
800
750
700
650
600
550
500

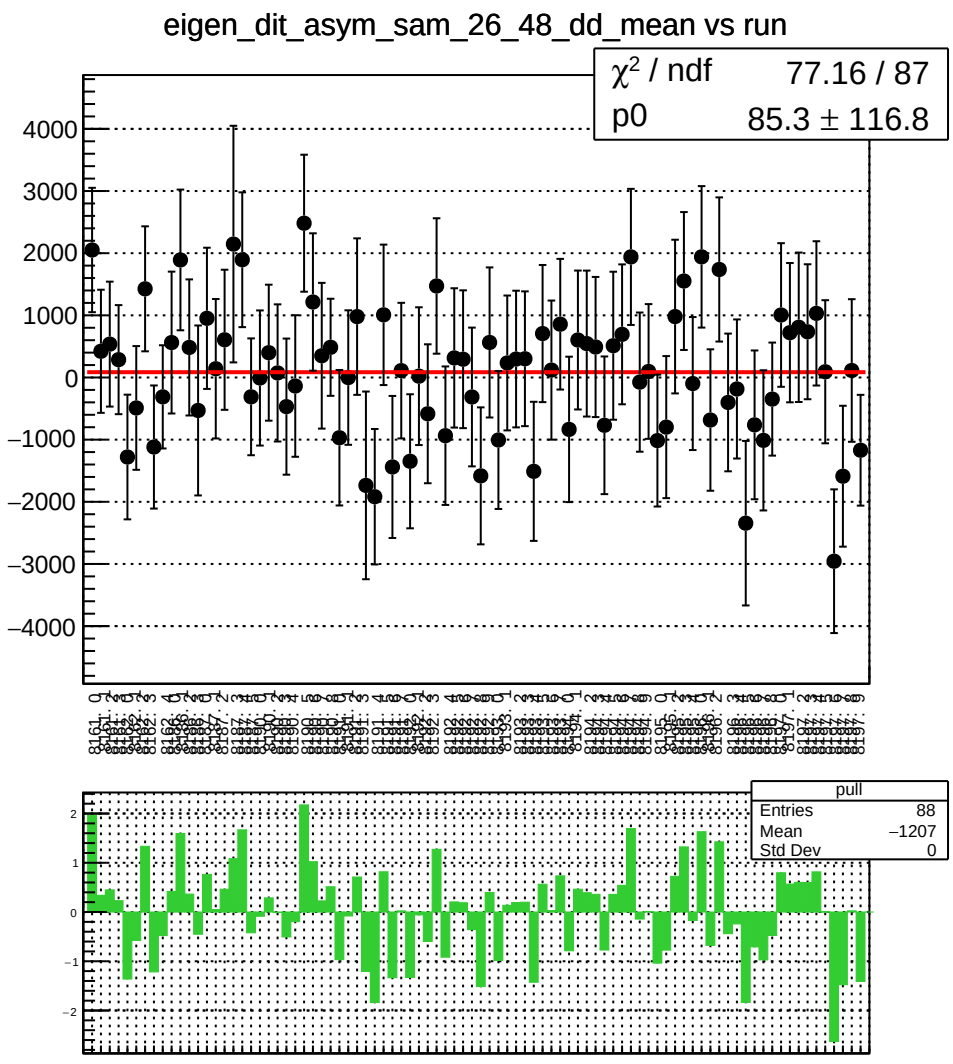

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 77.16 / 87
p0 85.3 ± 116.8
pull
Entries 88
Mean −1206
Std Dev 0
pull1D
Entries 88
Mean 0.003233
Std Dev 0.9364

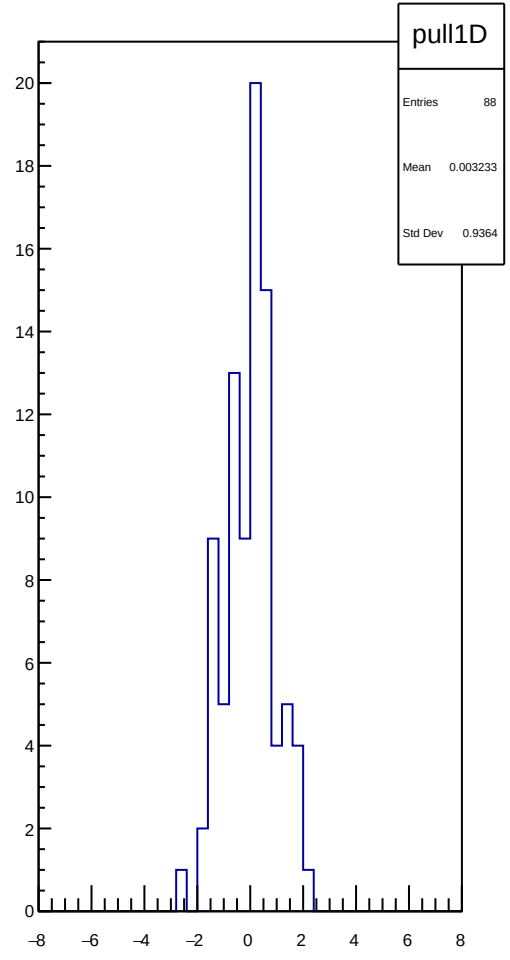

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.182e+04 / 87
p0 106.3 ± 0.08262
180
160
140
120
100

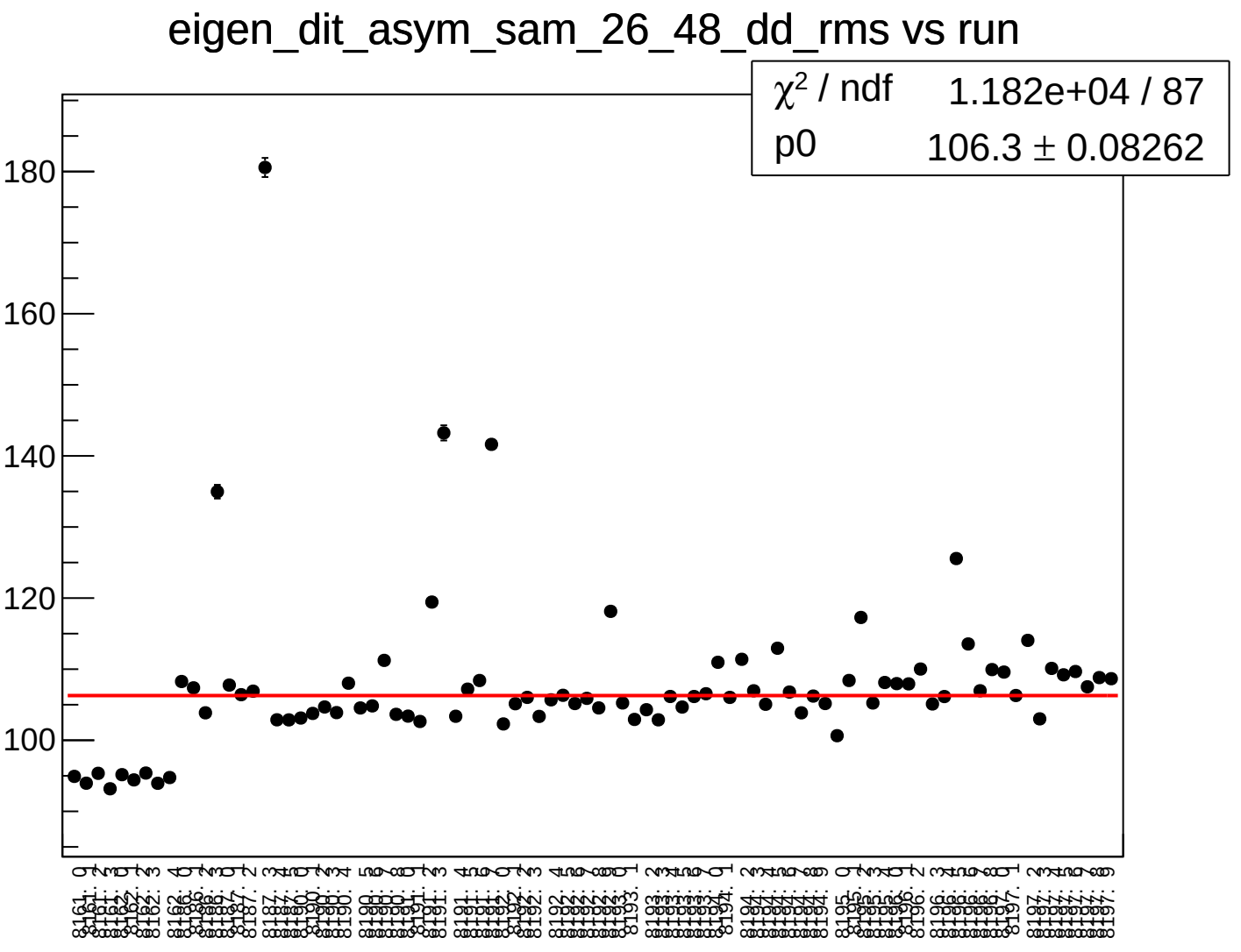

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 101.8 / 87
p0 3760 ± 747.9
pull
Entries 88
Mean 22.21
Std Dev 25.24

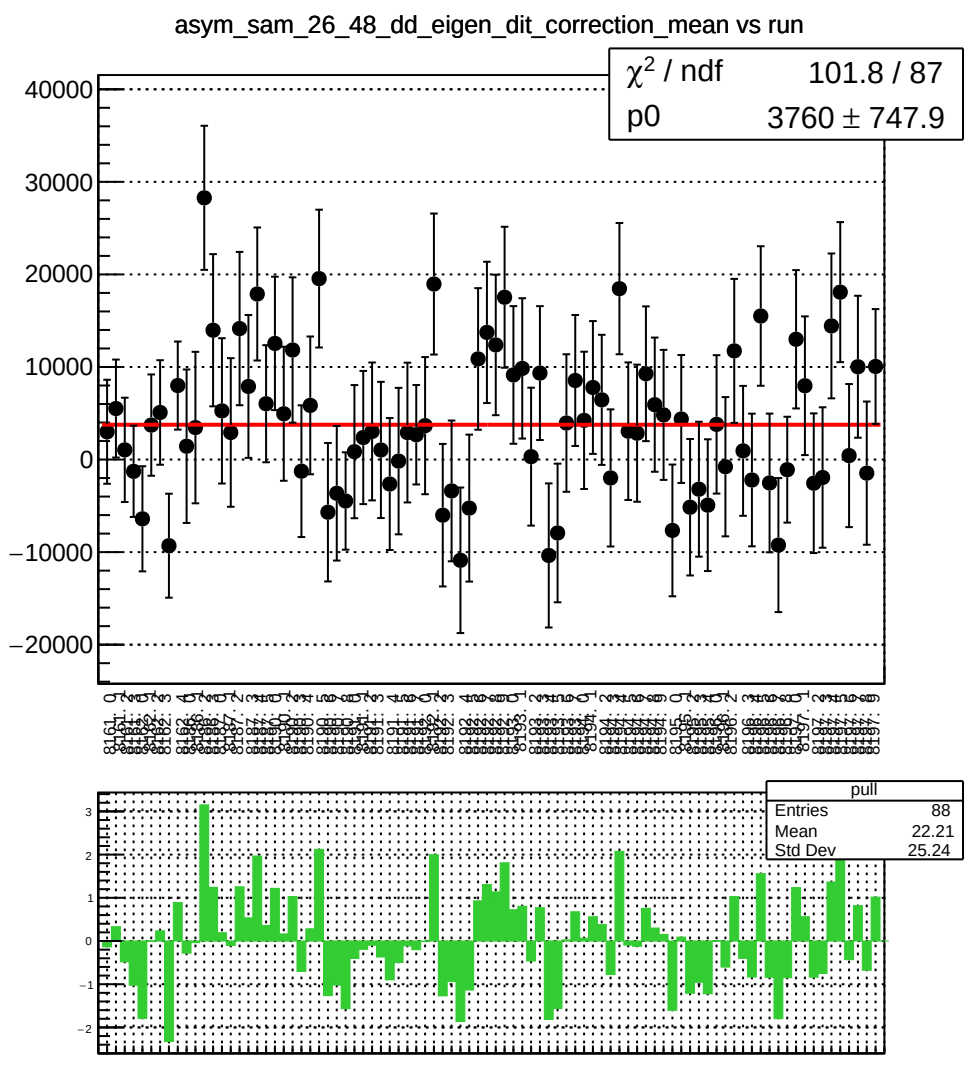

pull1D
Entries 88
Mean 0.02768
Std Dev 1.075

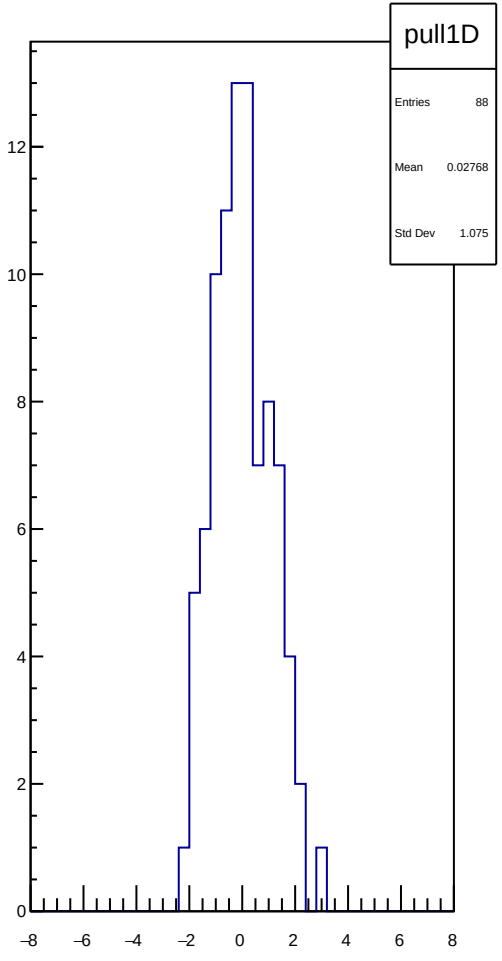

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.939e+04 / 87
p0 678.8 ± 0.5288
800
750
700
650
600
550
500

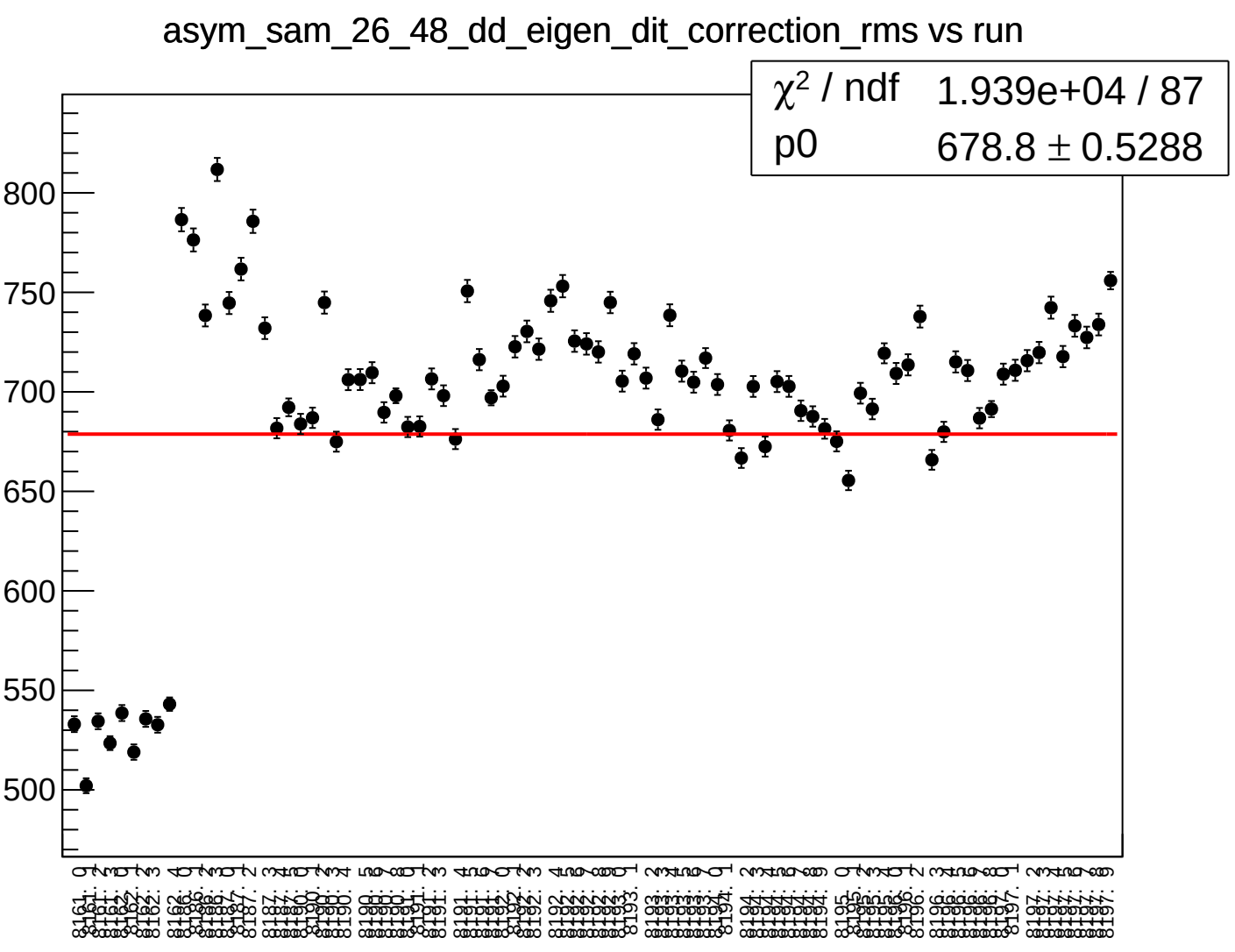

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 77.16 / 87
p0 85.3 ± 116.8
pull
Entries 88
Mean −1207
Std Dev 0

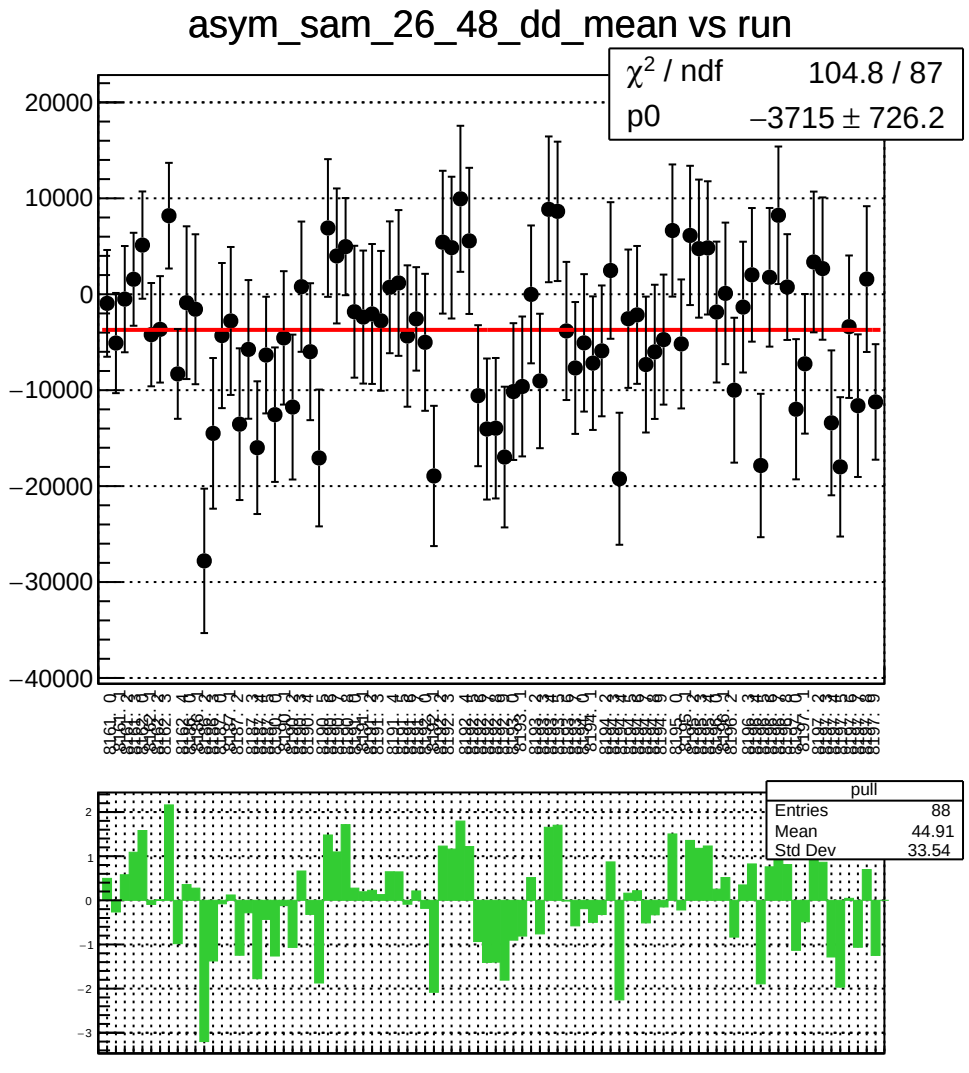

pull1D
Entries 88
Mean 0.003233
Std Dev 0.9364

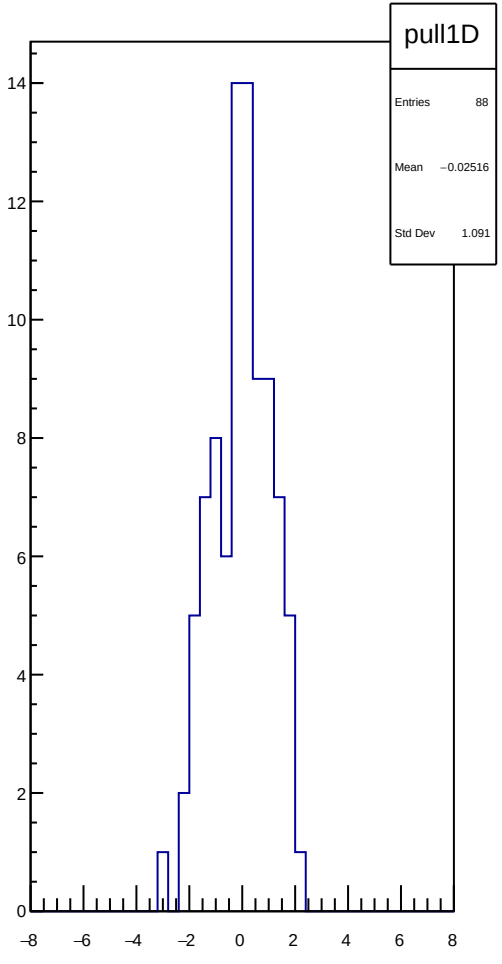

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.182e+04 / 87
p0 106.3 ± 0.08262
180
160
140
120
100

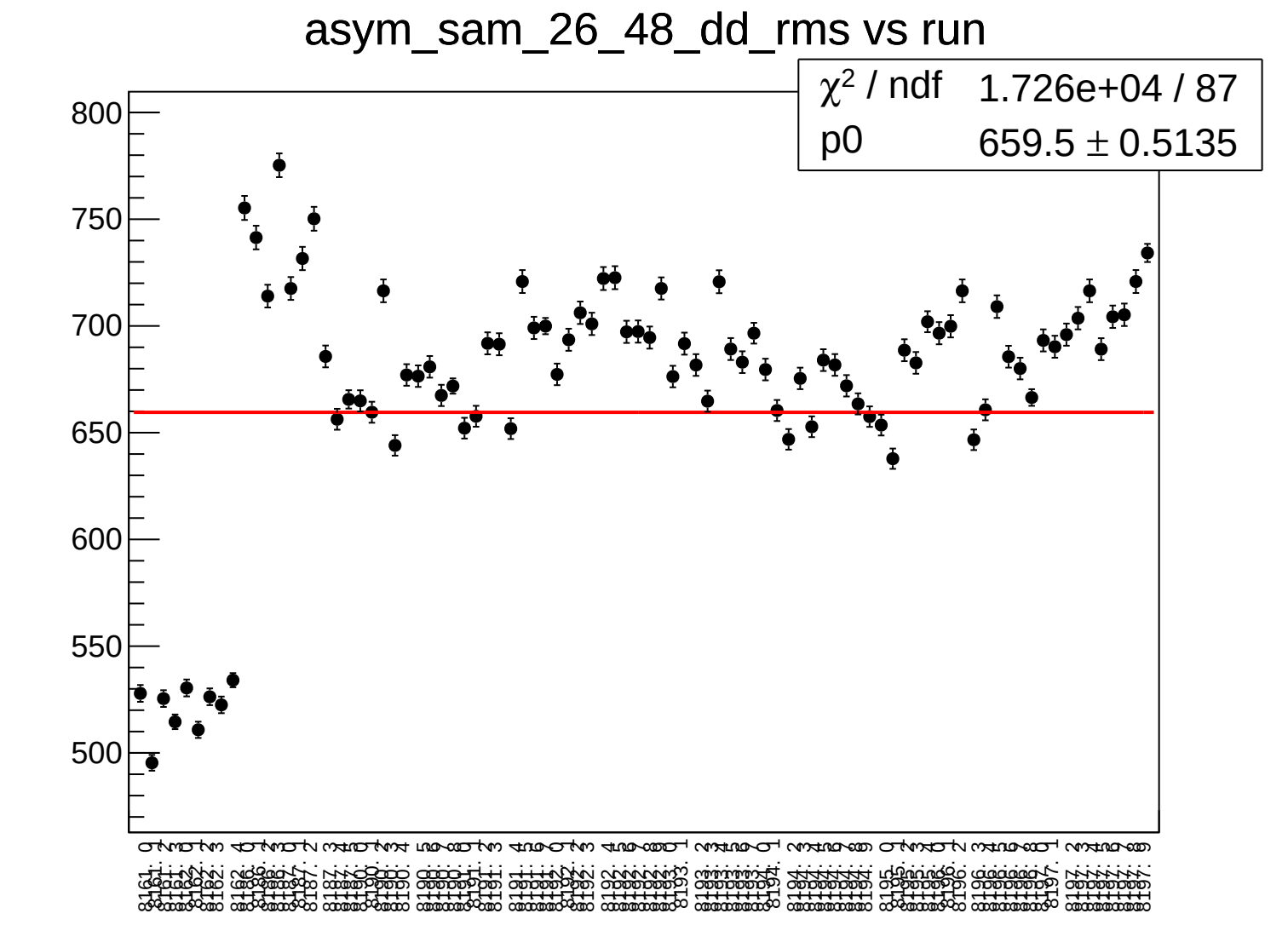

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.8 / 87
p0 3760 ± 747.9
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 22.21
Std Dev 25.24
3
2
1
0
−1
−2

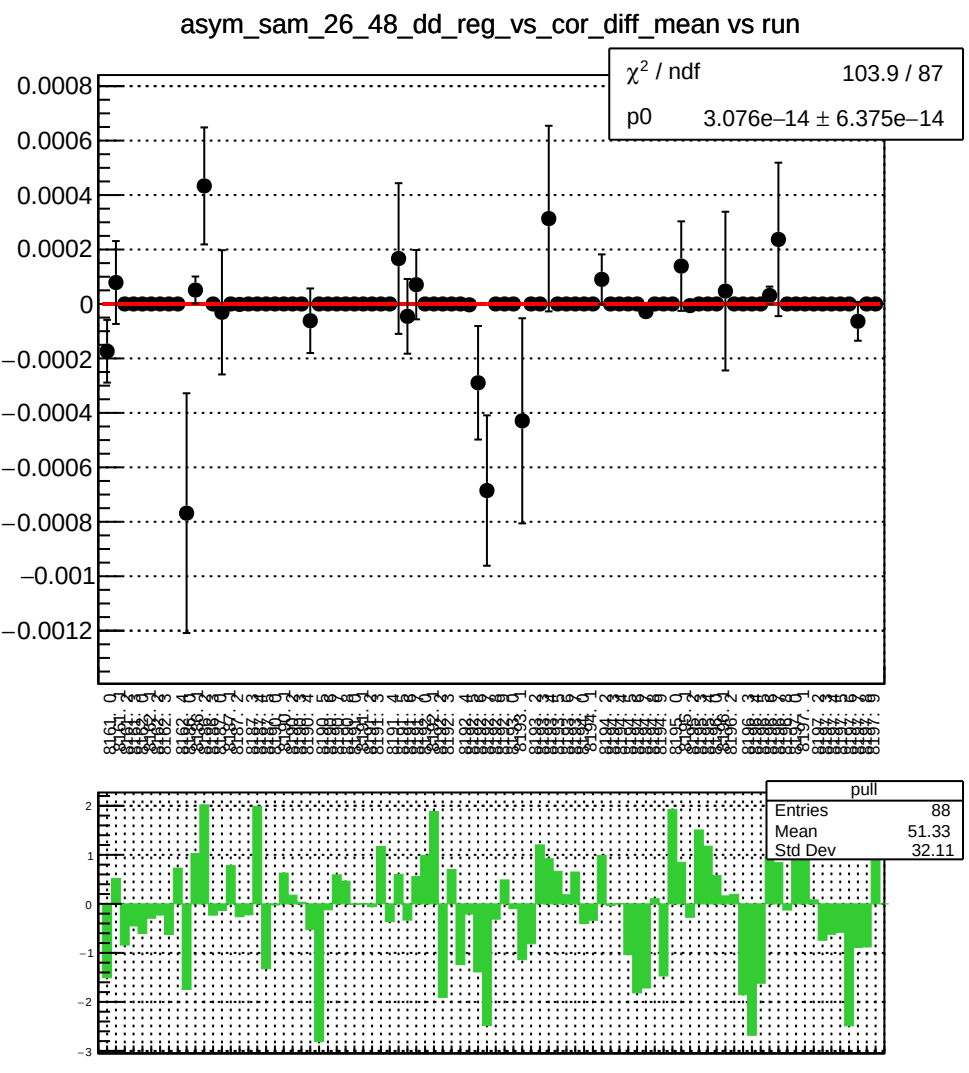

pull1D
Entries 88
Mean 0.02768
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

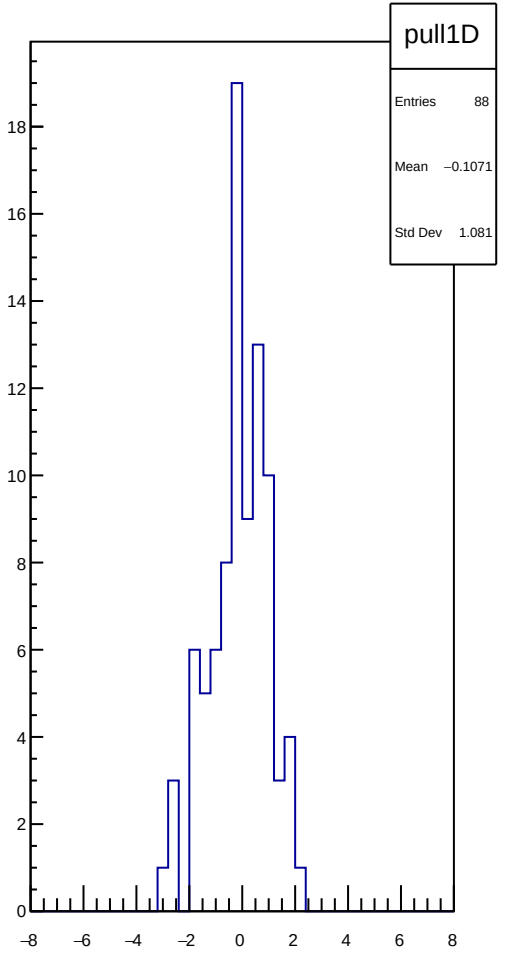

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.939e+04 / 87
p0 678.8 ± 0.5288
800
750
700
650
600
550
500

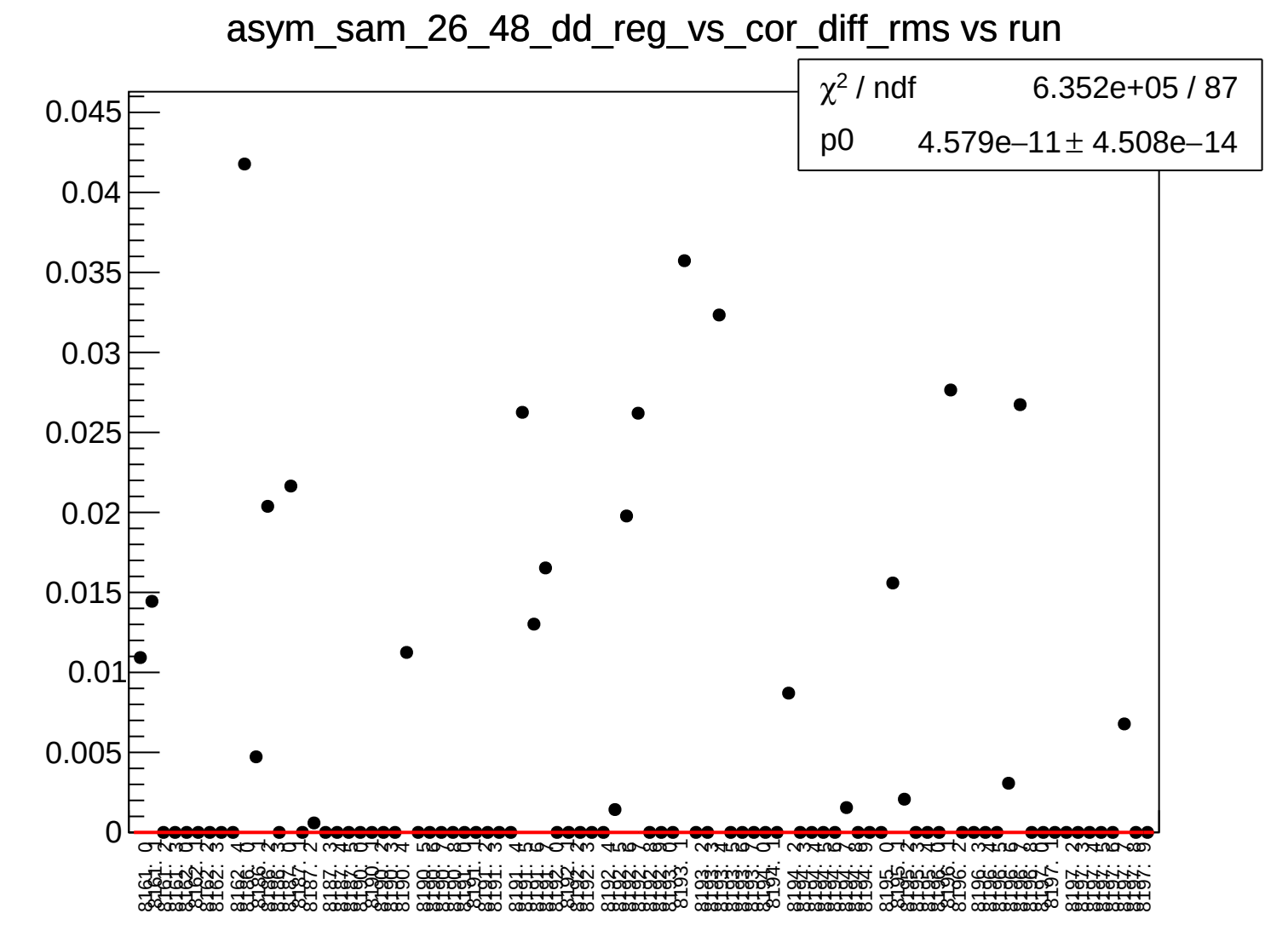

asym_sam_26_48_dd_mean vs run
χ² / ndf 104.8 / 87
p0 −3715 ± 726.2
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 44.91
Std Dev 33.54
2
1
0
−1
−2
−3

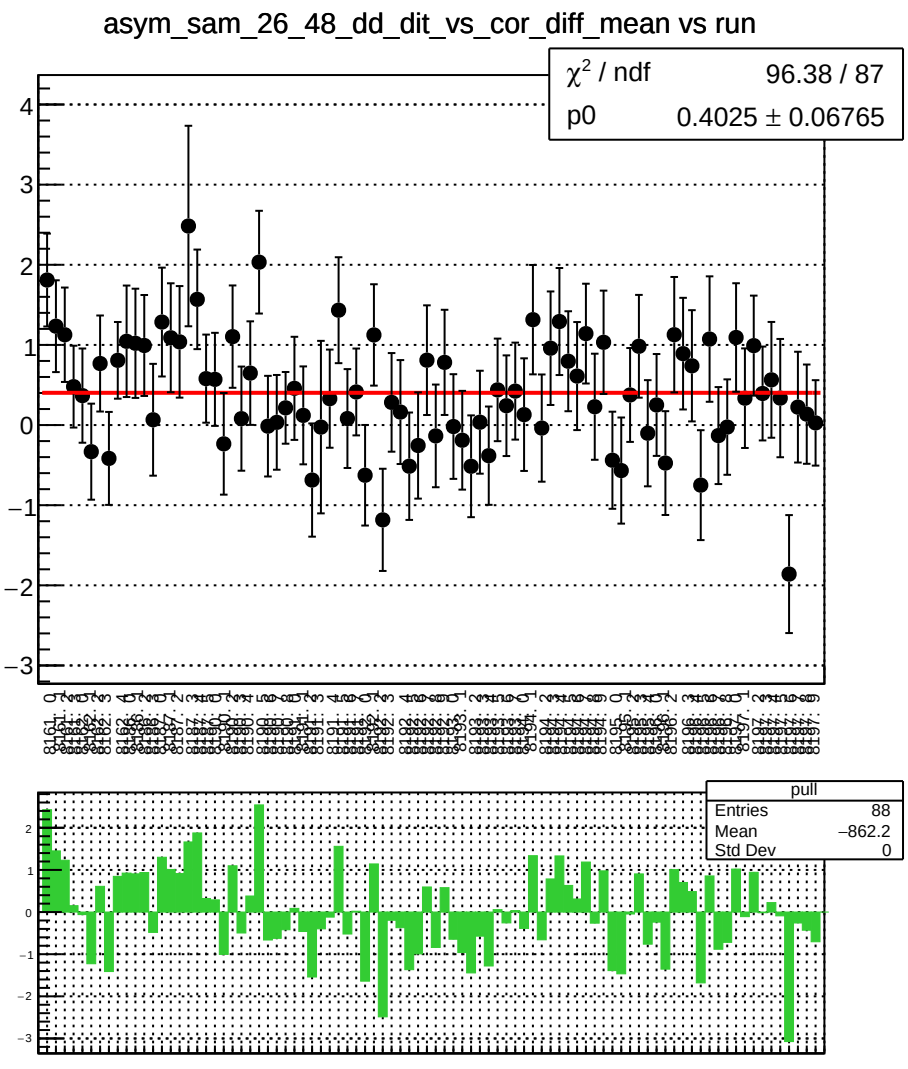

pull1D
Entries 88
Mean −0.02516
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

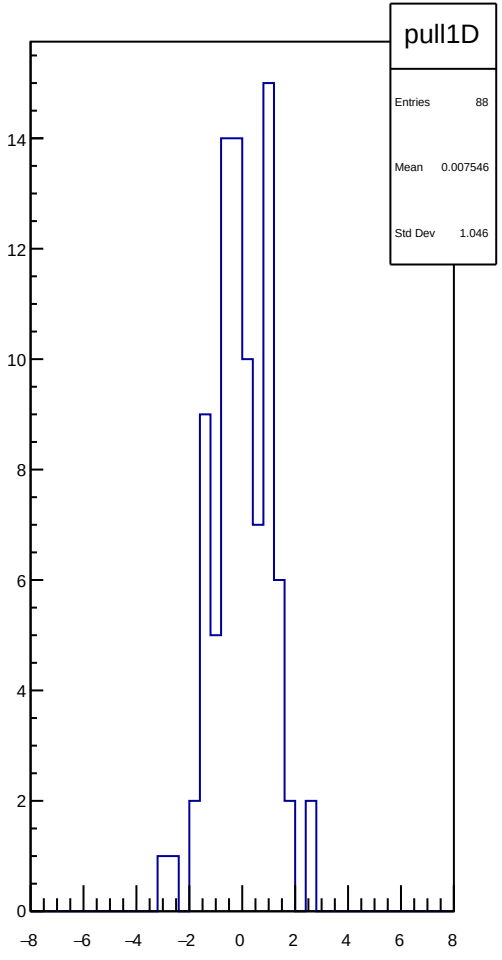

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.726e+04 / 87
p0 659.5 ± 0.5135
800
750
700
650
600
550
500

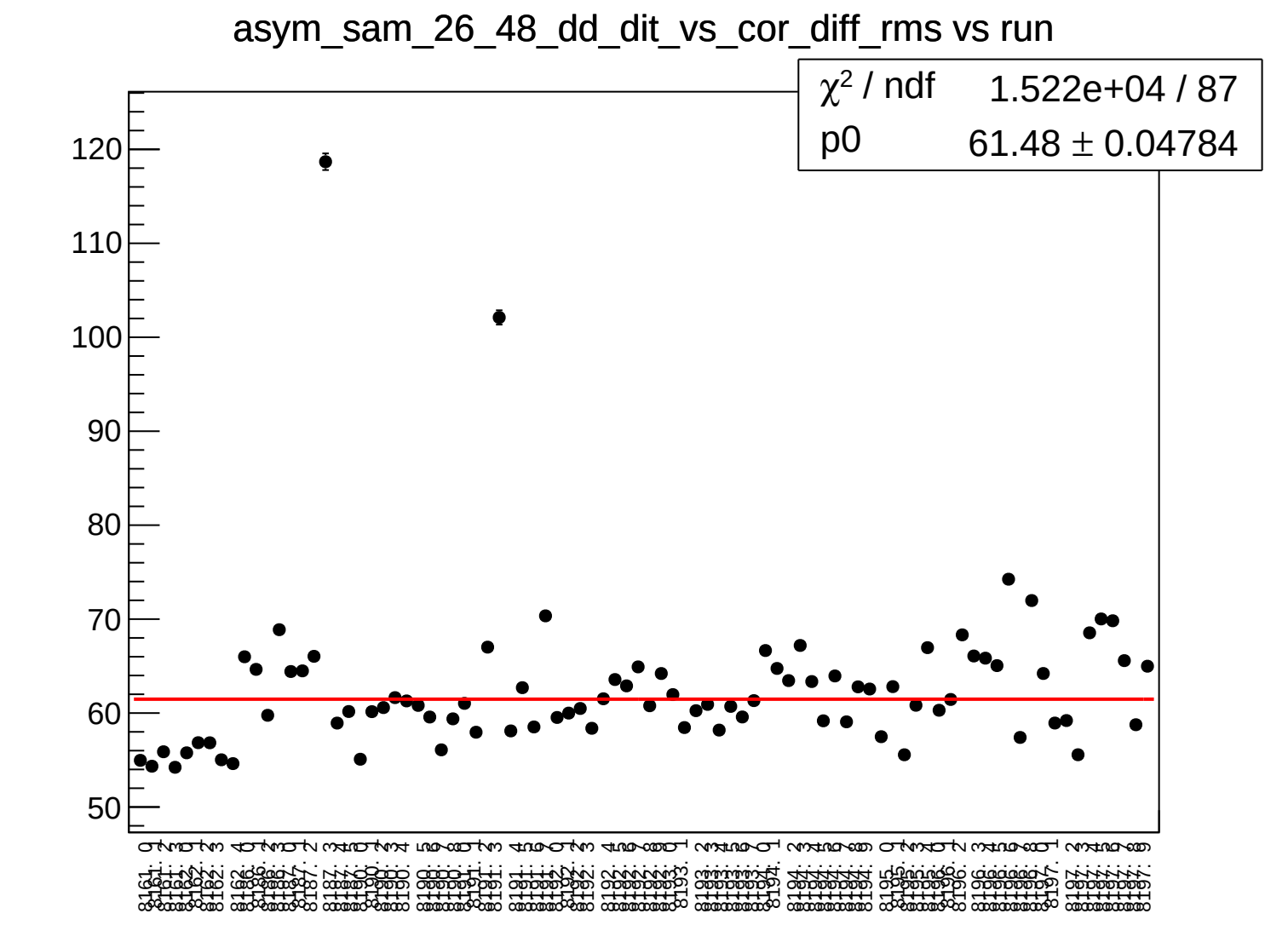

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 87
p0 3.076e−14 ± 6.375e−14
pull
Entries 88
Mean 51.33
Std Dev 32.11

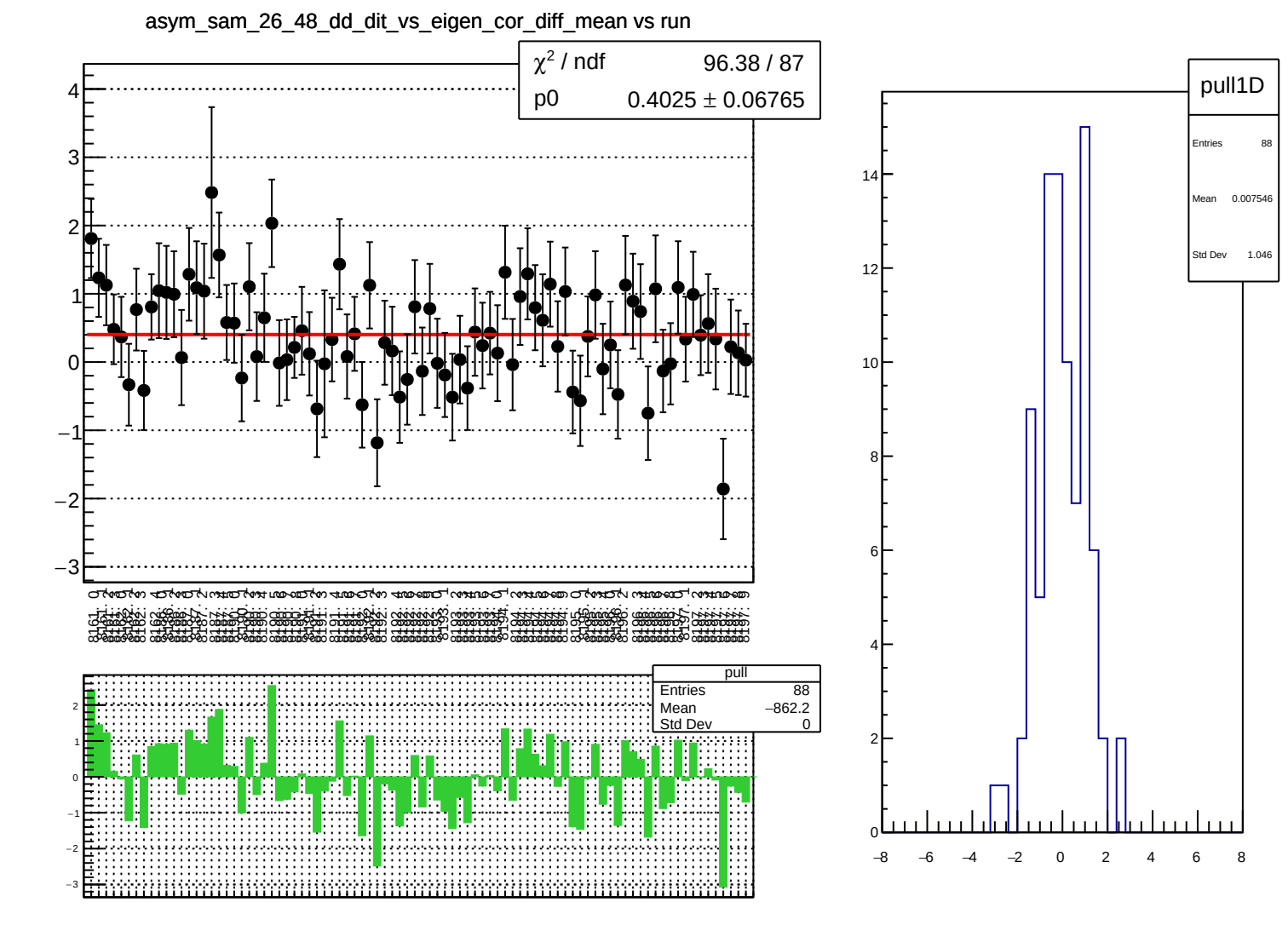

pull1D
Entries 88
Mean −0.1071
Std Dev 1.081

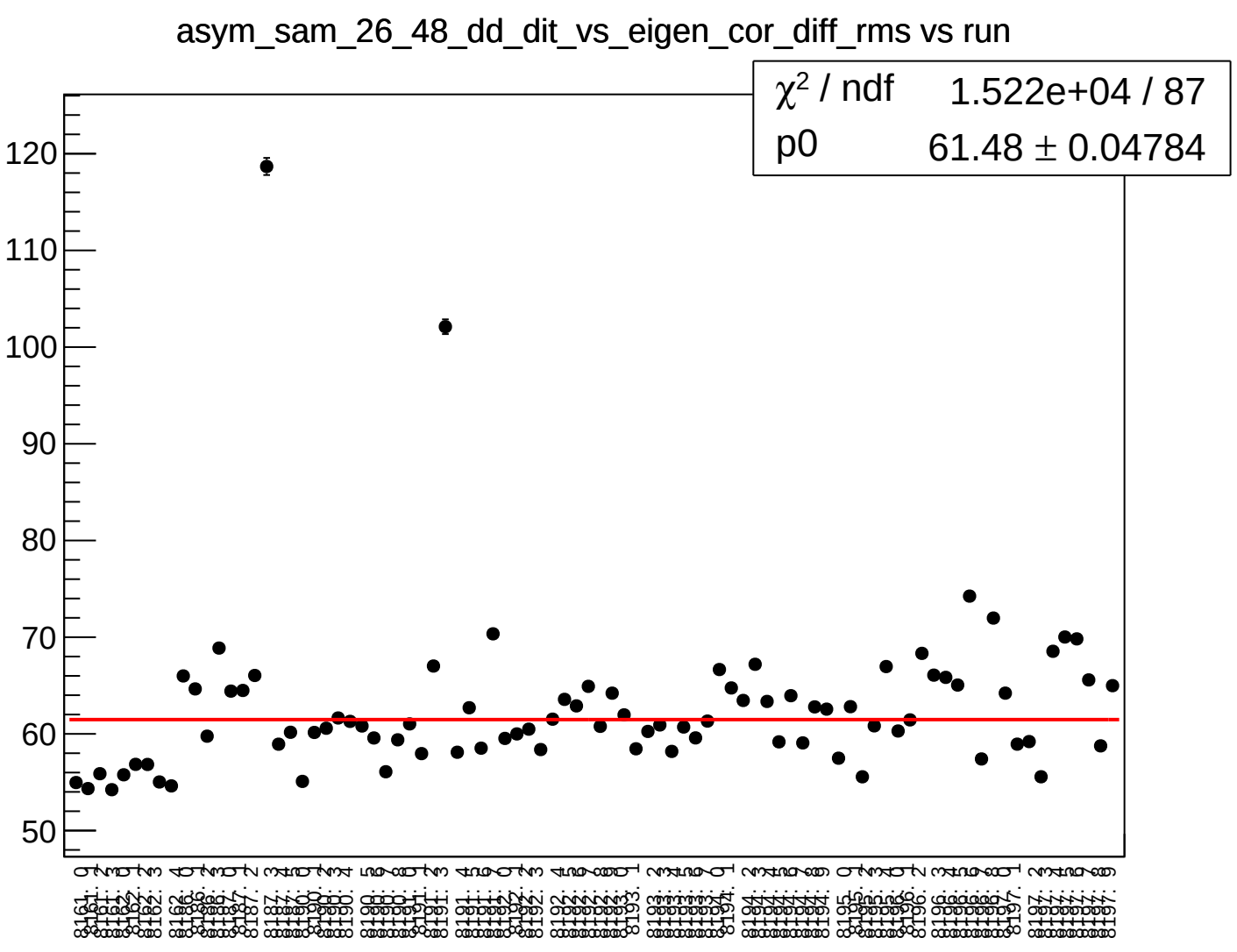

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.352e+05 / 87
p0 4.579e−11 ± 4.508e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

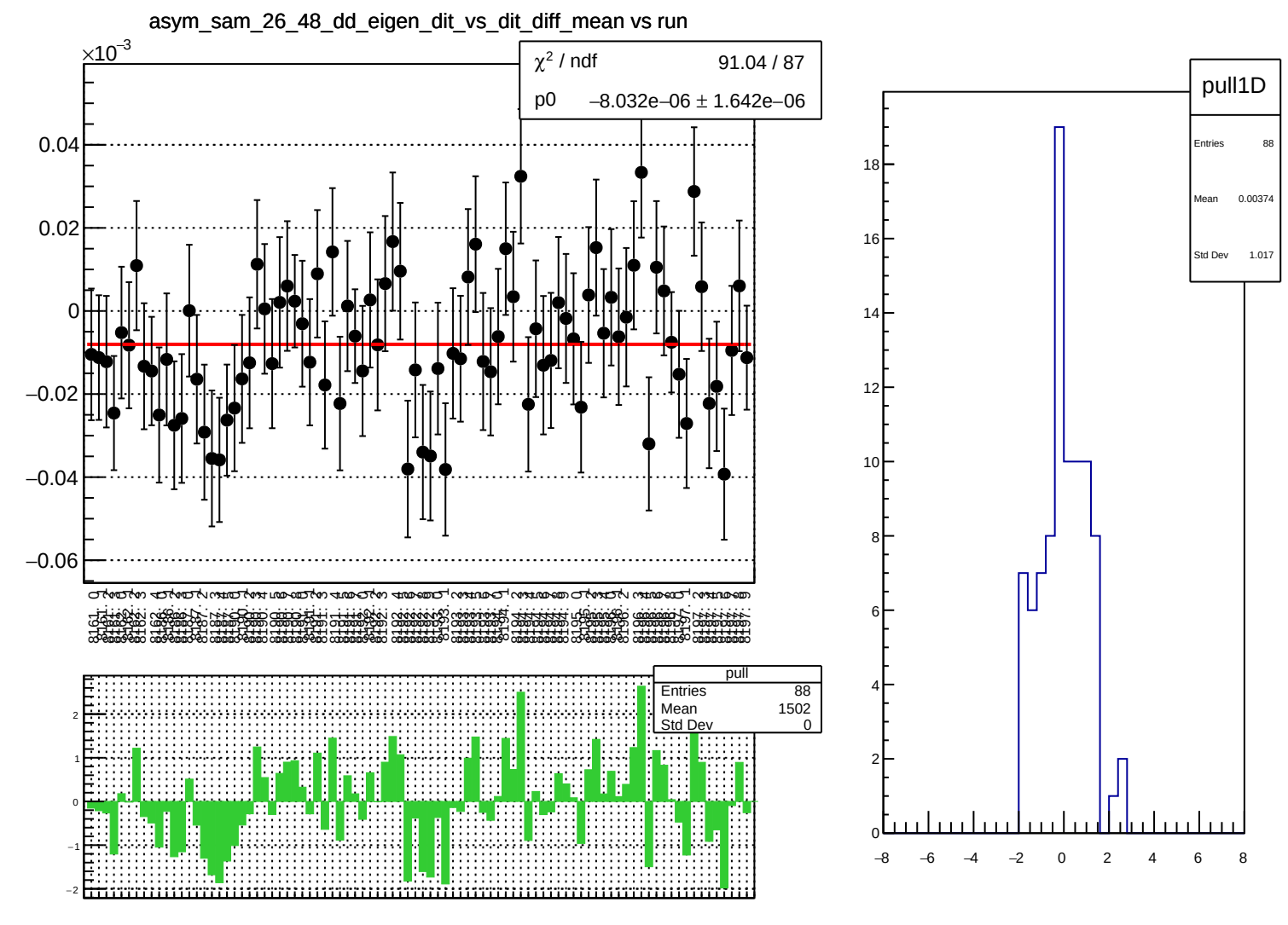

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.38 / 87
p0 0.4025 ± 0.06765
pull
Entries 88
Mean −862.2
Std Dev 0

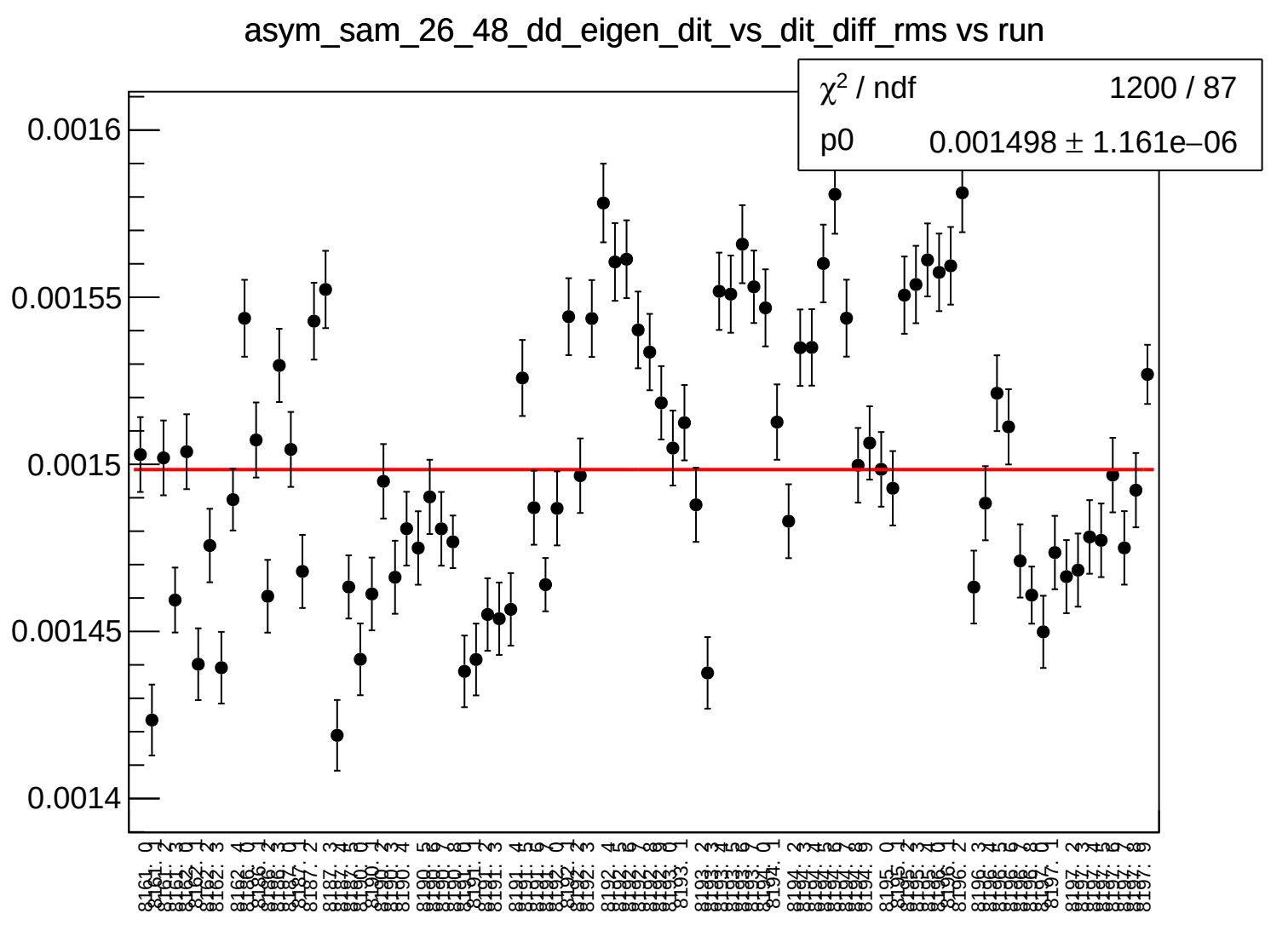

pull1D
Entries 88
Mean 0.007546
Std Dev 1.046

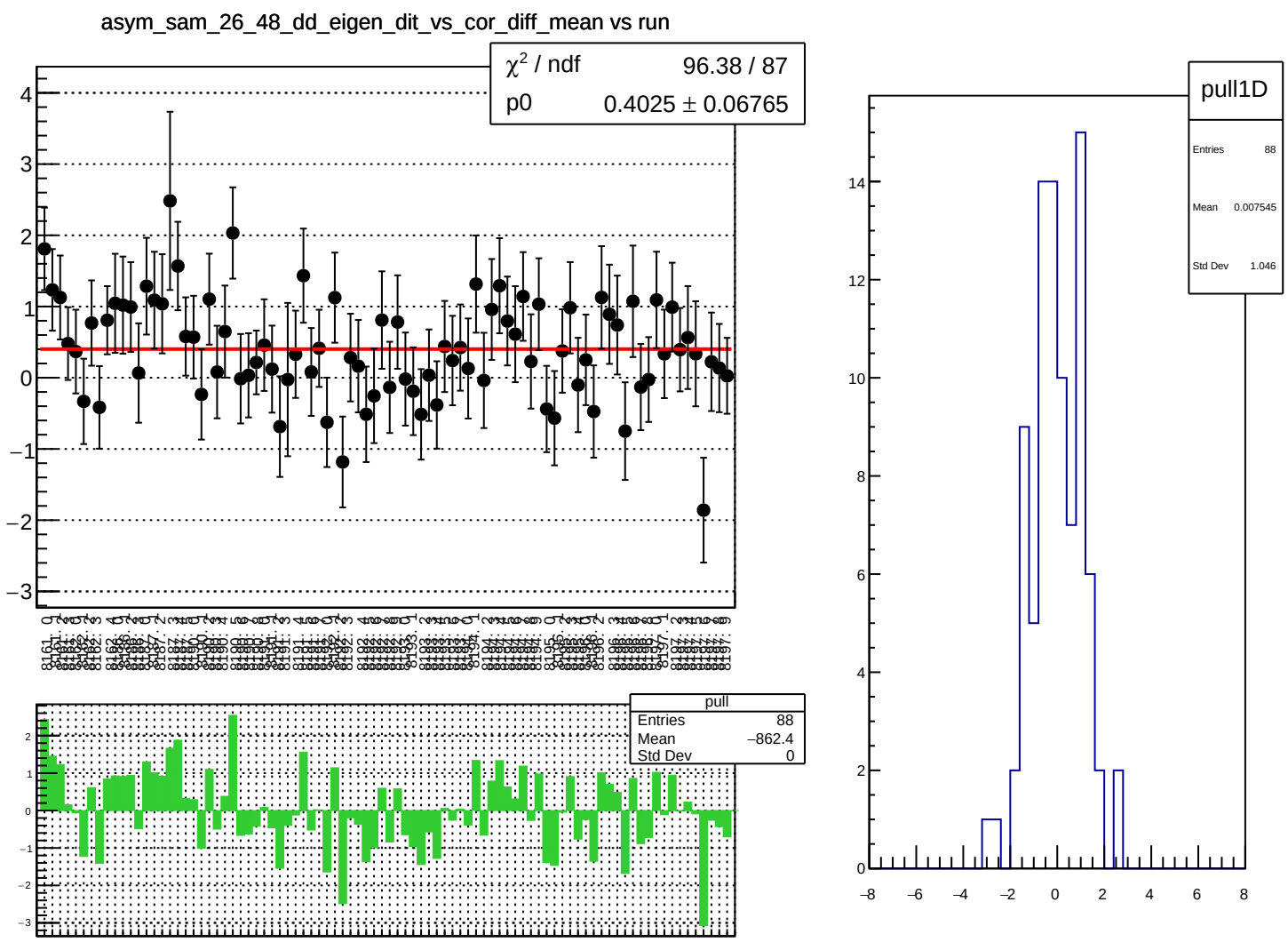

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.522e+04 / 87
p0 61.48 ± 0.04784
120
110
100
90
80
70
60
50

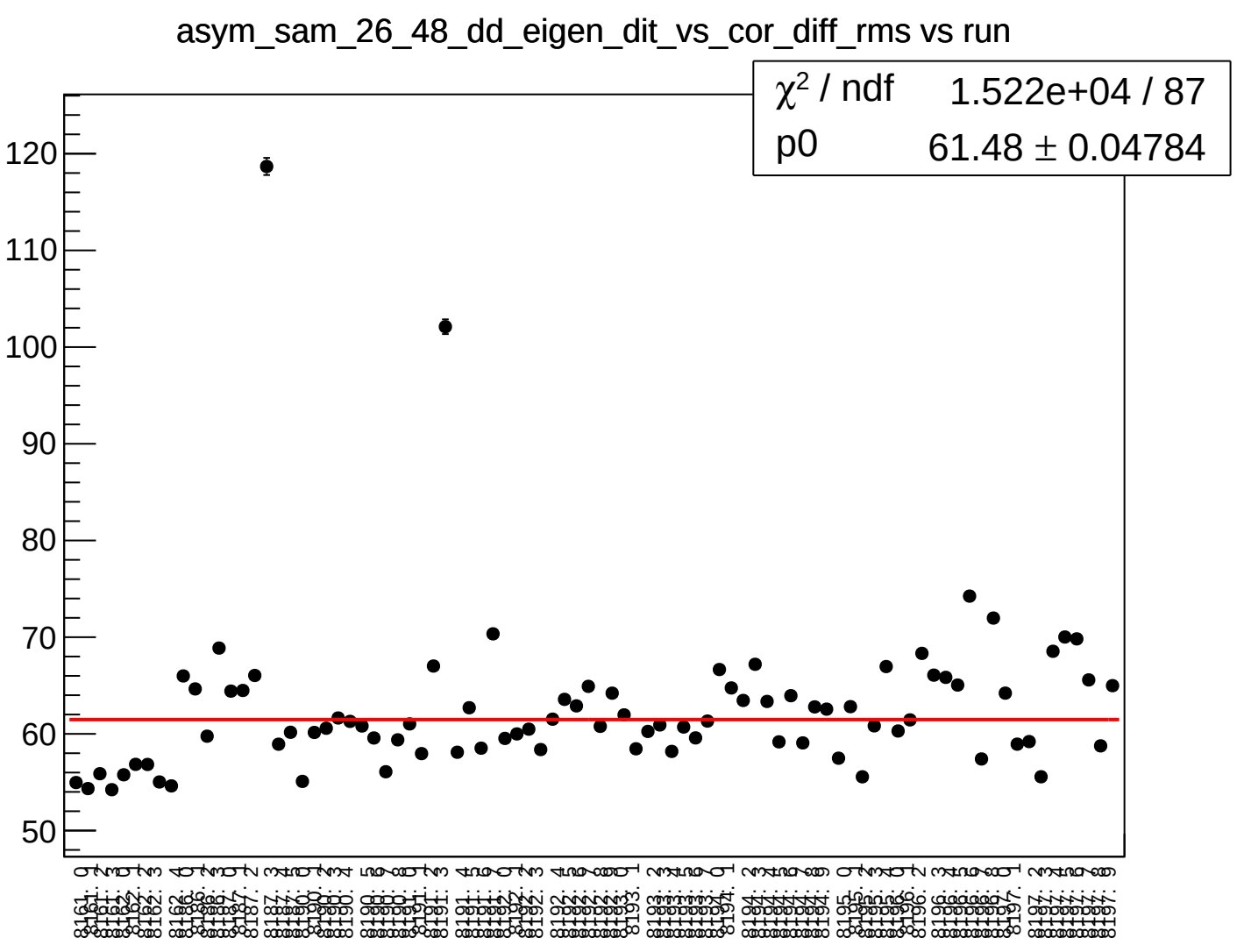

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.38 / 87
p0 0.4025 ± 0.06765
pull
Entries 88
Mean −862.2
Std Dev 0
pull1D
Entries 88
Mean 0.007546
Std Dev 1.046

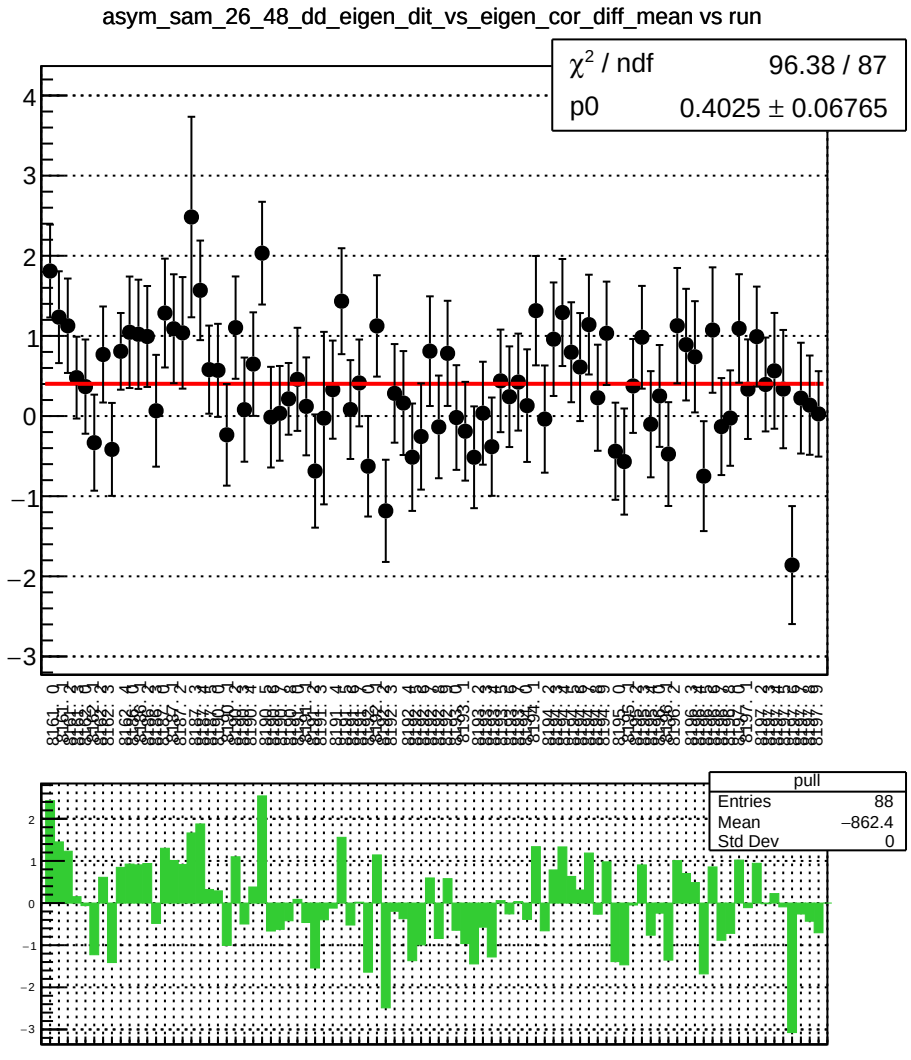

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.522e+04 / 87
p0 61.48 ± 0.04784
120
110
100
90
80
70
60
50

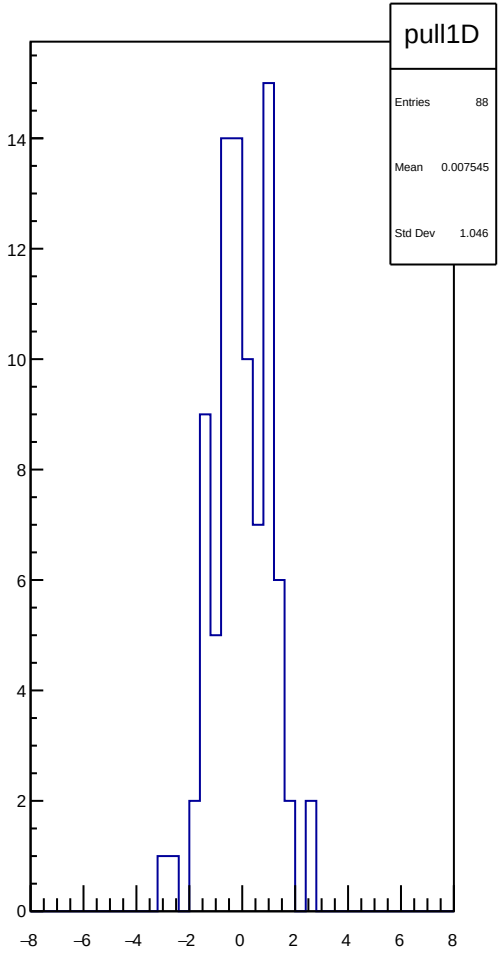

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.04 / 87
p0 −8.032e−06 ± 1.642e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 1502
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.00374
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

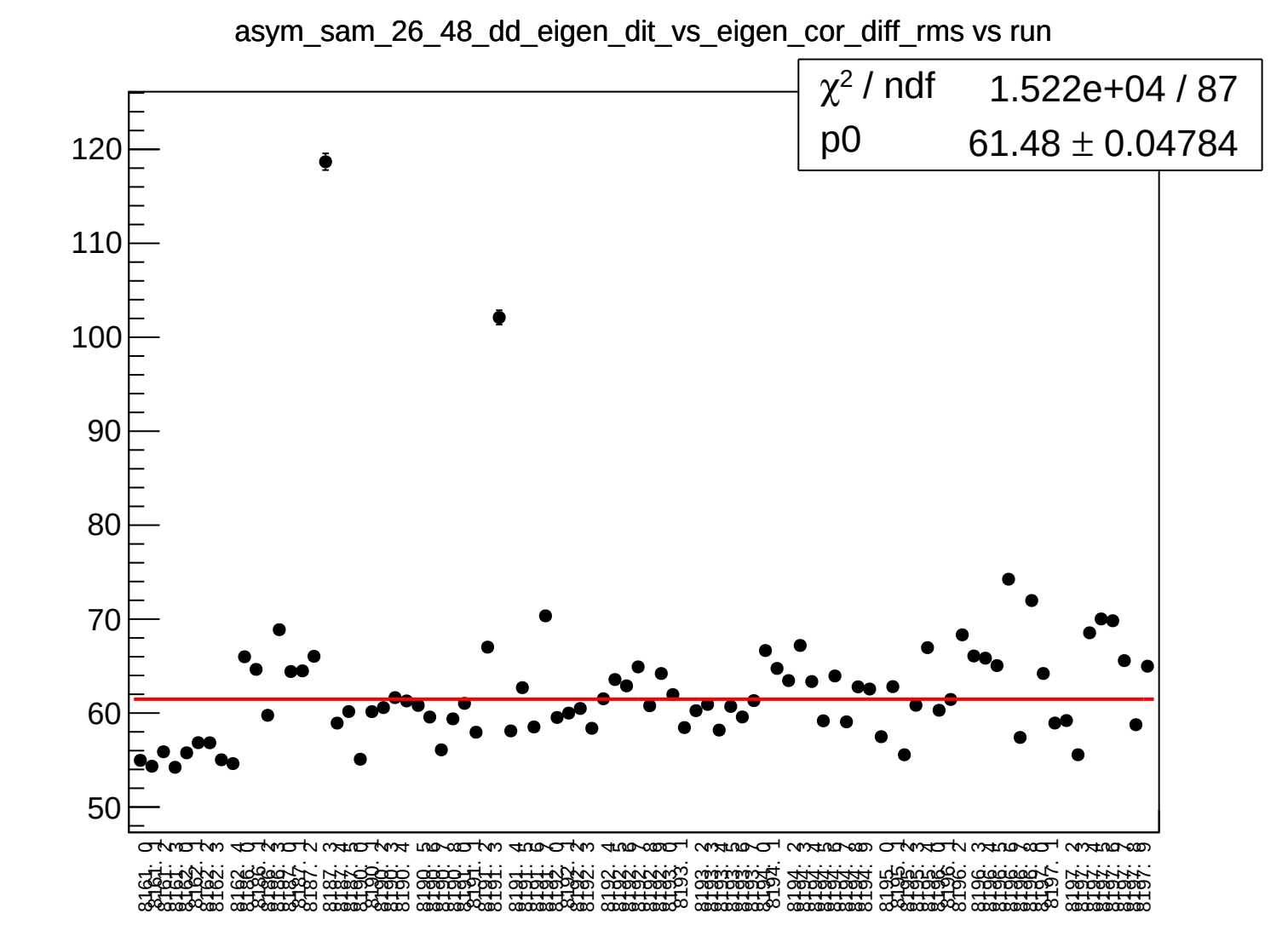

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1200 / 87
p0 0.001498 ± 1.161e−06
0.0016
0.00155
0.0015
0.00145
0.0014

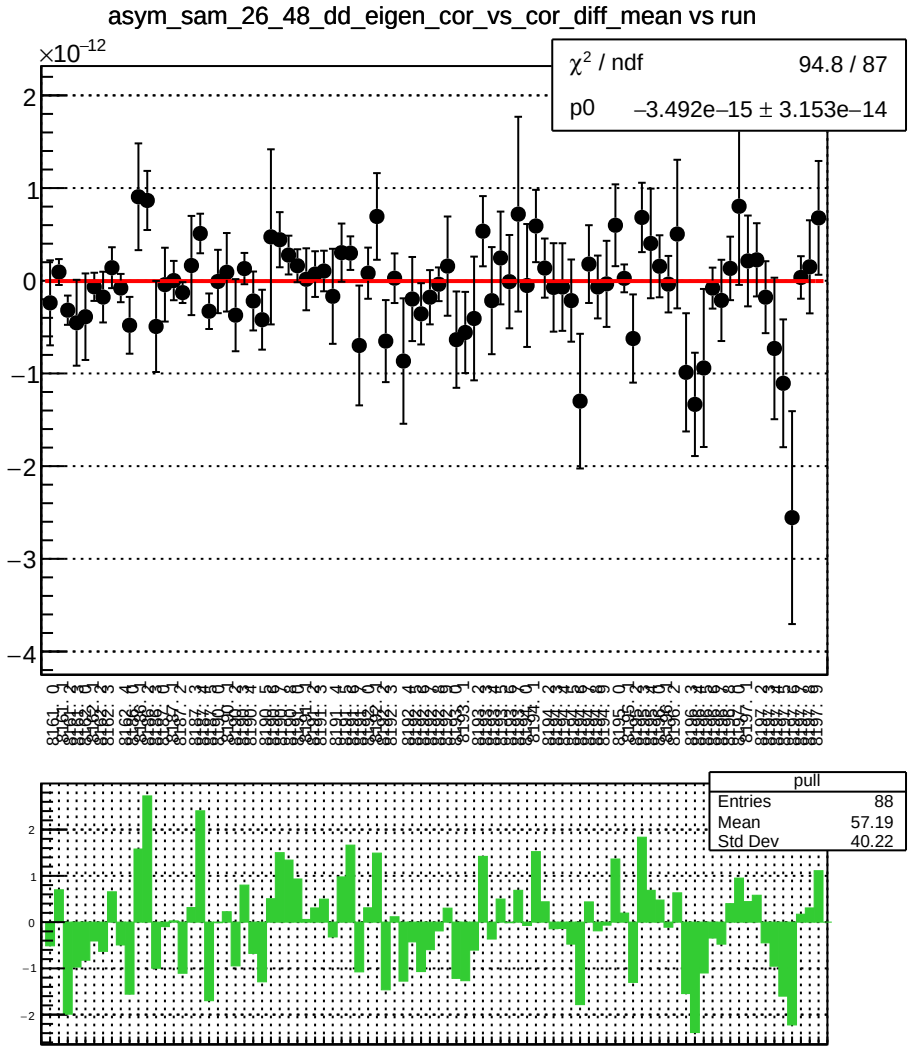

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.38 / 87
p0 0.4025 ± 0.06765
pull
Entries 88
Mean −862.4
Std Dev 0
pull1D
Entries 88
Mean 0.007545
Std Dev 1.046

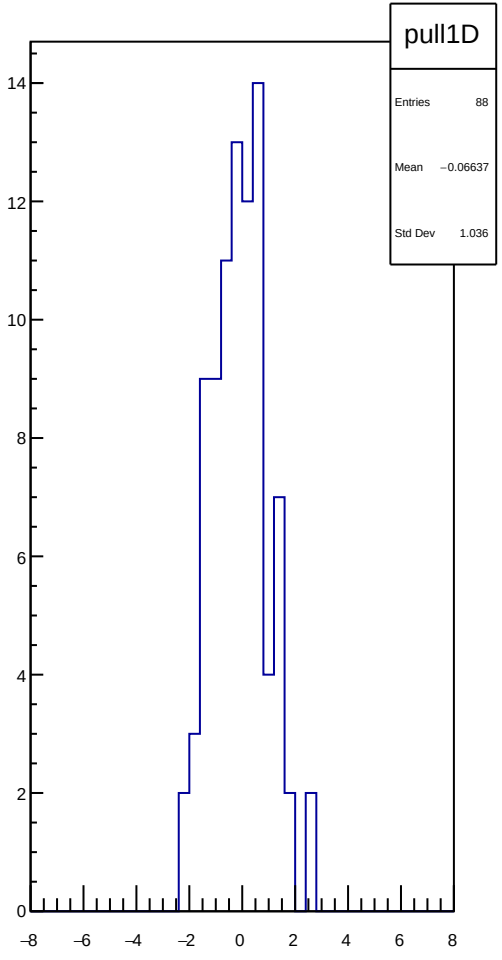

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.522e+04 / 87
p0 61.48 ± 0.04784
120
110
100
90
80
70
60
50

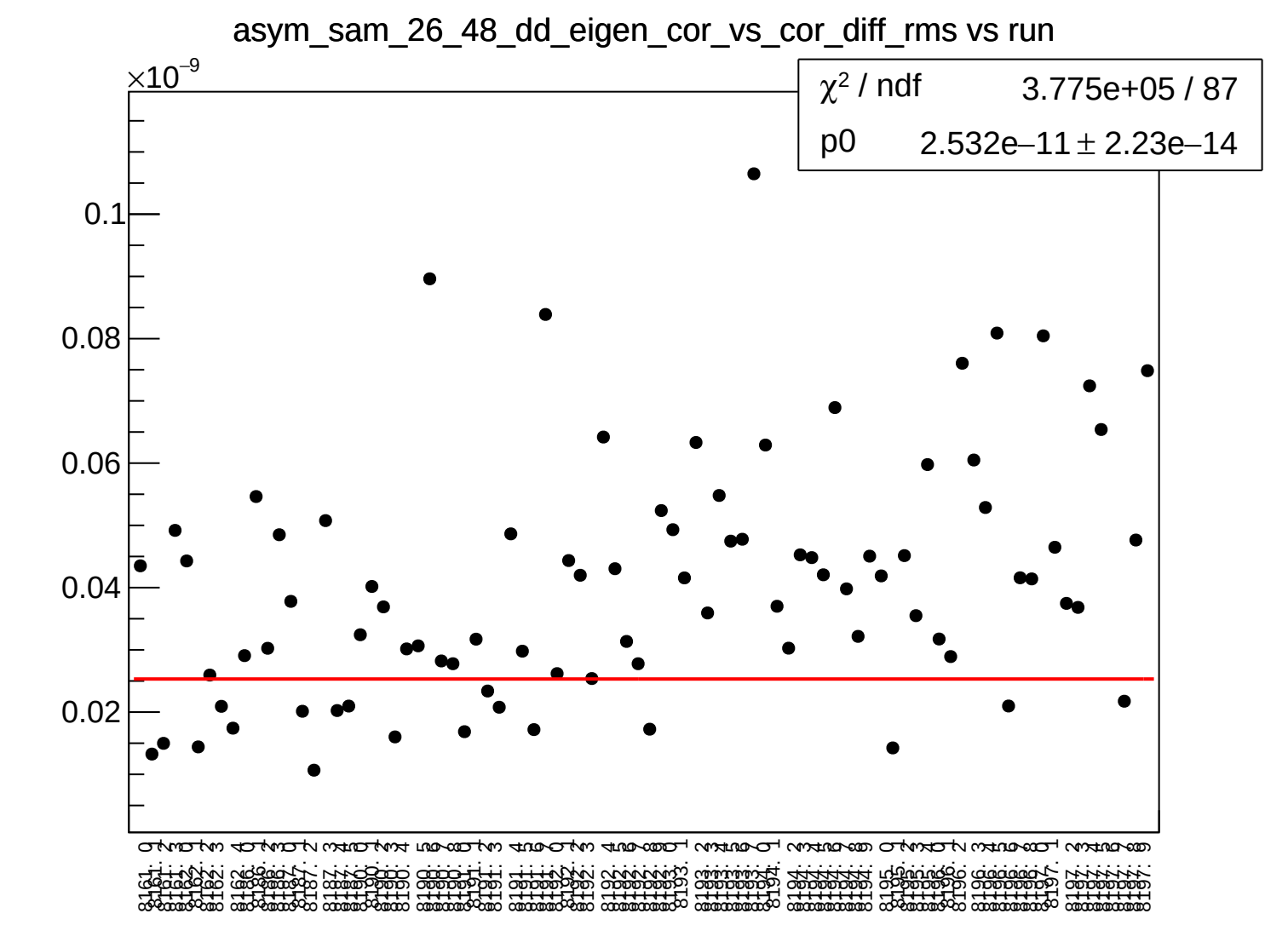

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.38 / 87
p0 0.4025 ± 0.06765
pull
Entries 88
Mean −862.4
Std Dev 0

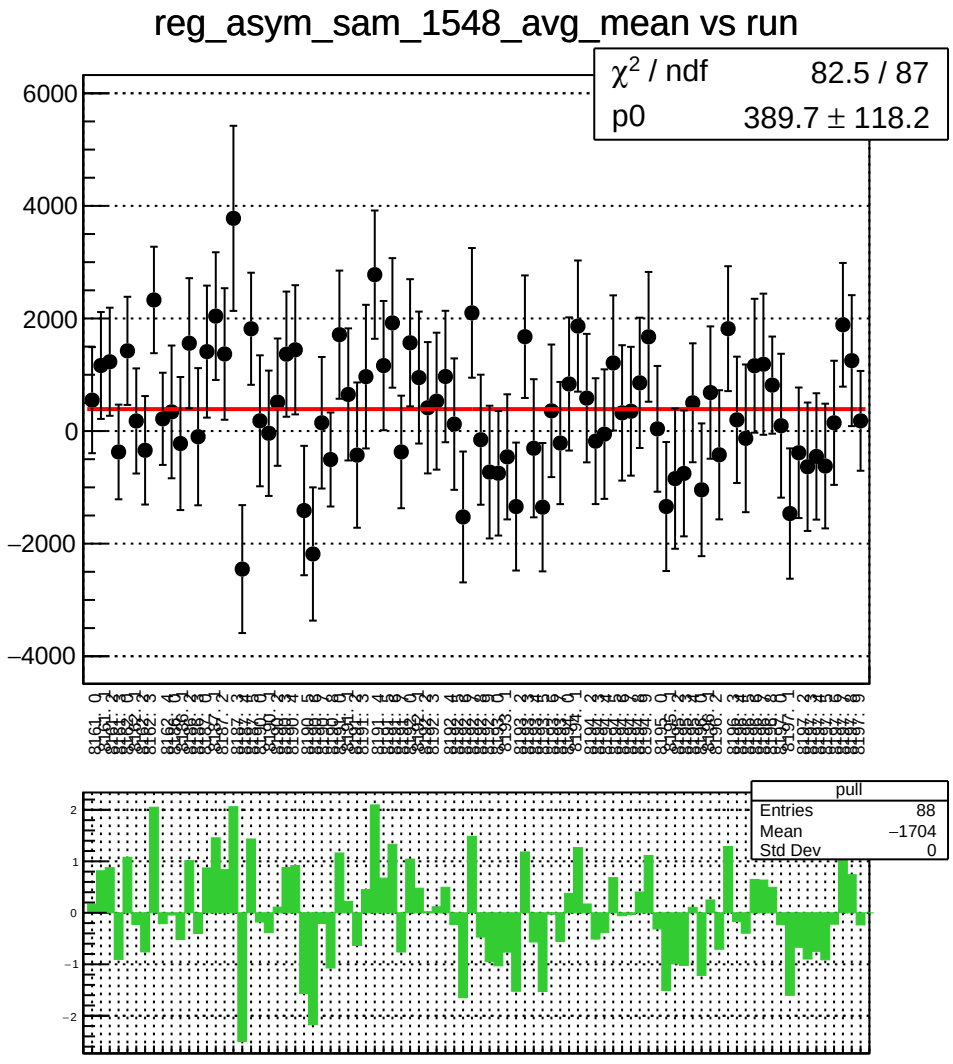

pull1D
Entries 88
Mean 0.007545
Std Dev 1.046

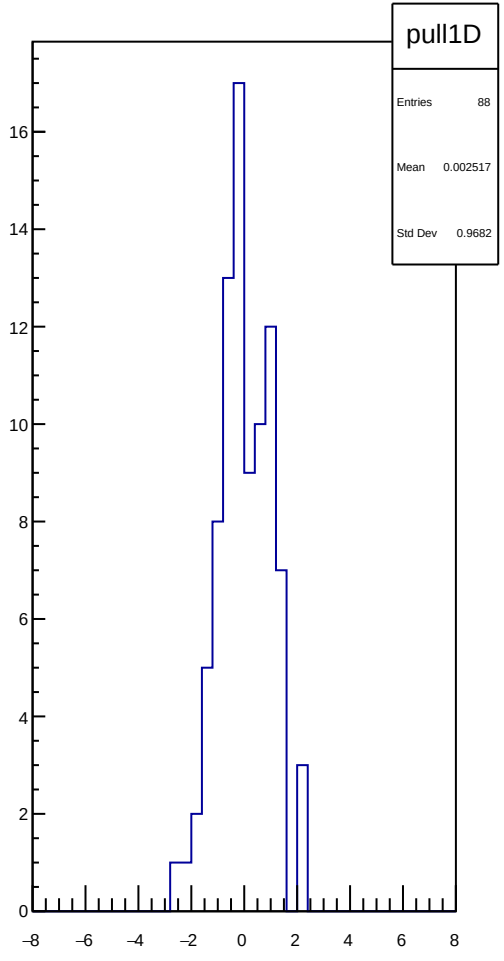

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.522e+04 / 87
p0 61.48 ± 0.04784
120
110
100
90
80
70
60
50

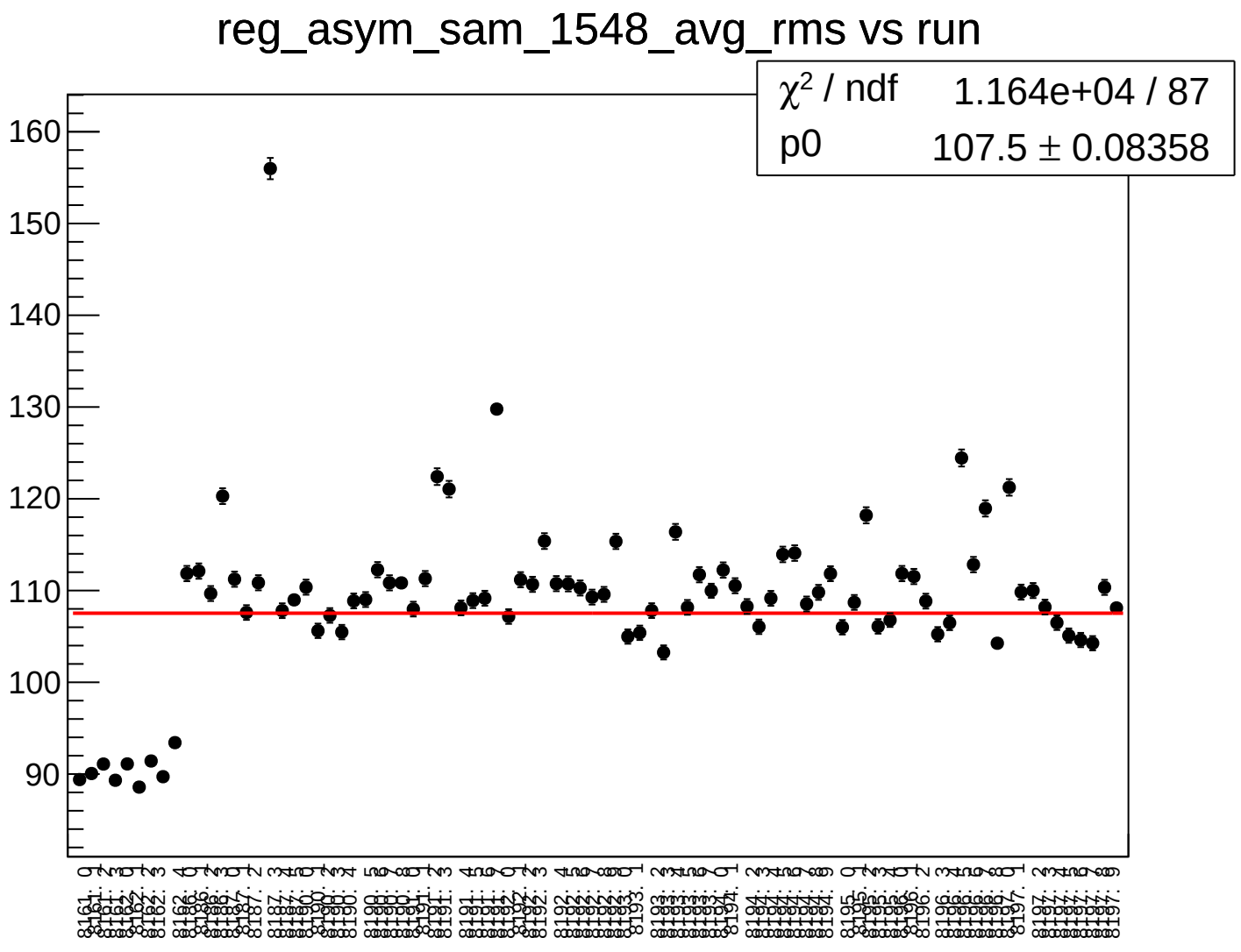

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.8 / 87
p0 −3.492e−15 ± 3.153e−14
pull
Entries 88
Mean 57.19
Std Dev 40.22

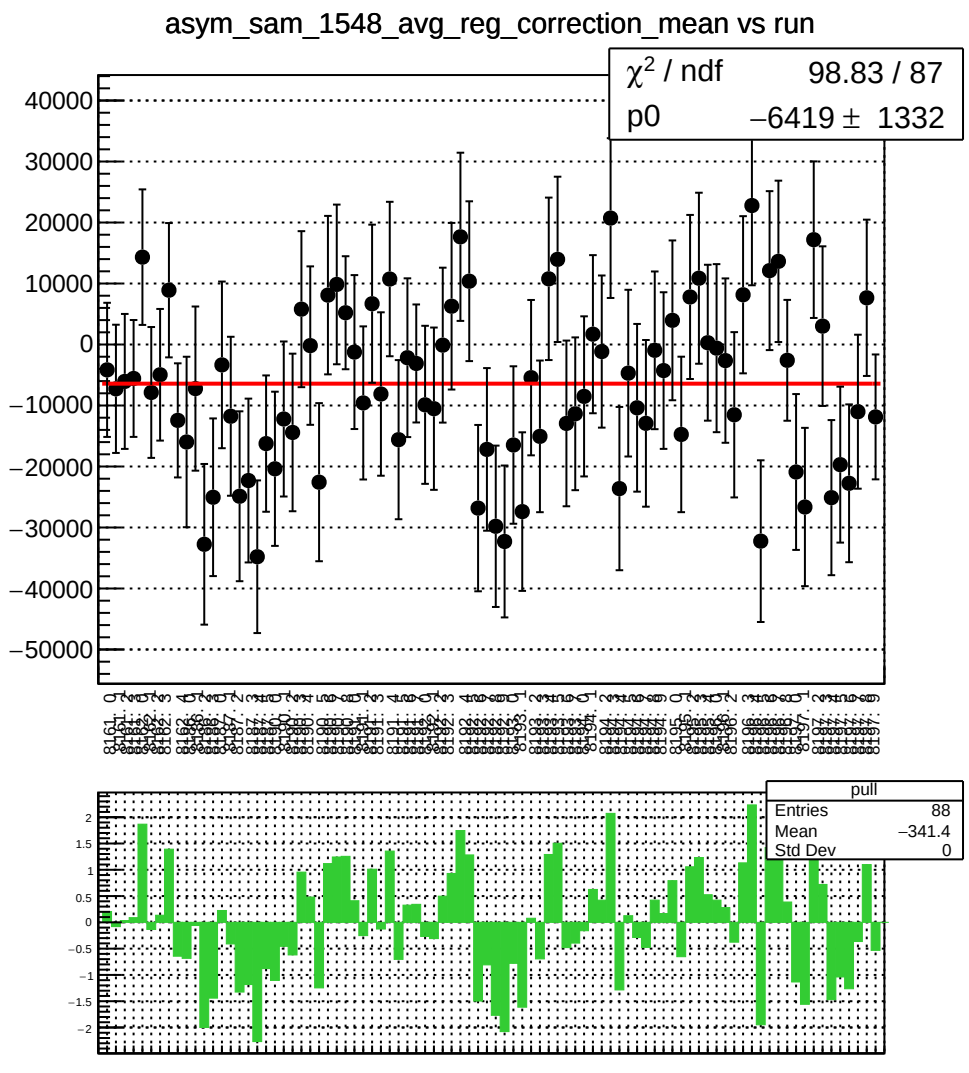

pull1D
Entries 88
Mean −0.06637
Std Dev 1.036

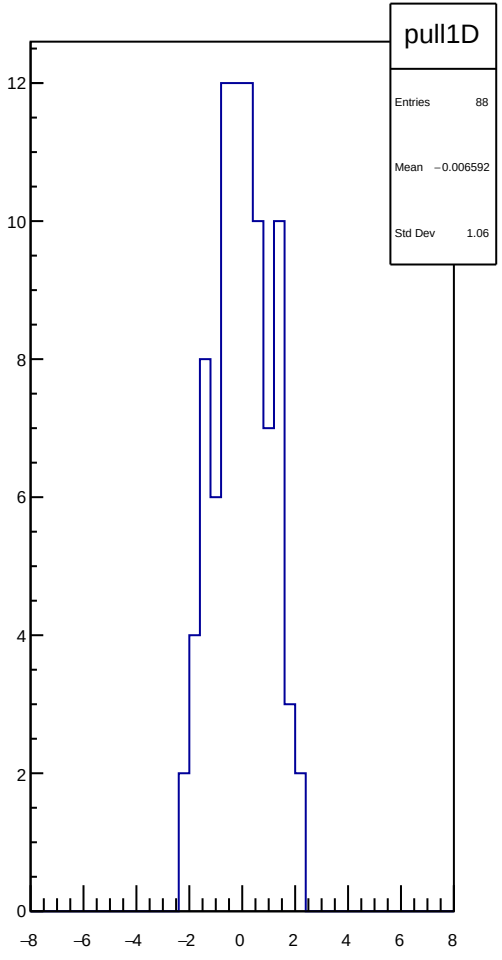

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.775e+05 / 87
p0 2.532e−11 ± 2.23e−14
0.1
0.08
0.06
0.04
0.02

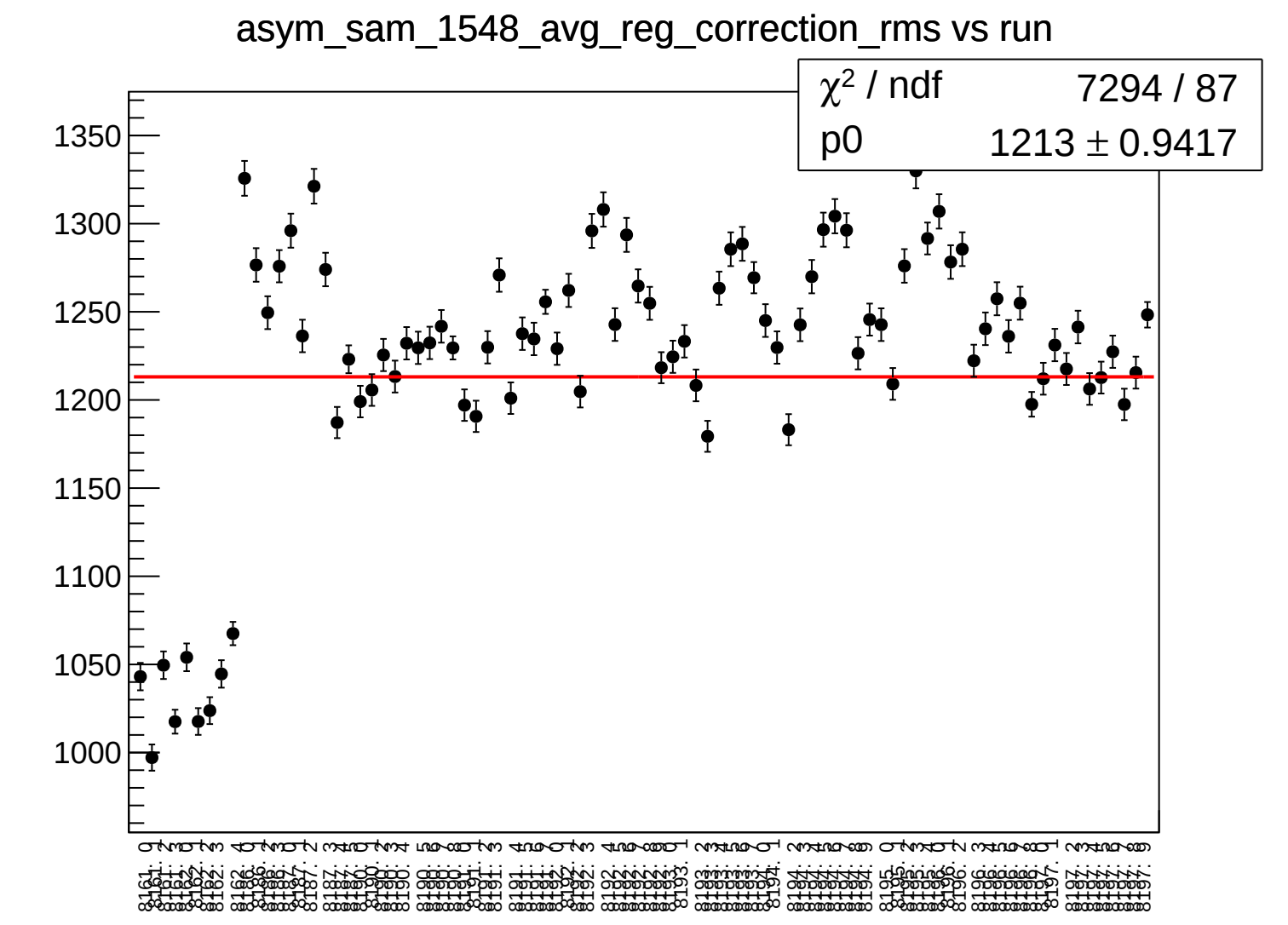

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 82.5 / 87
p0 389.7 ± 118.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1704
Std Dev 0
2
1
0
−1
−2

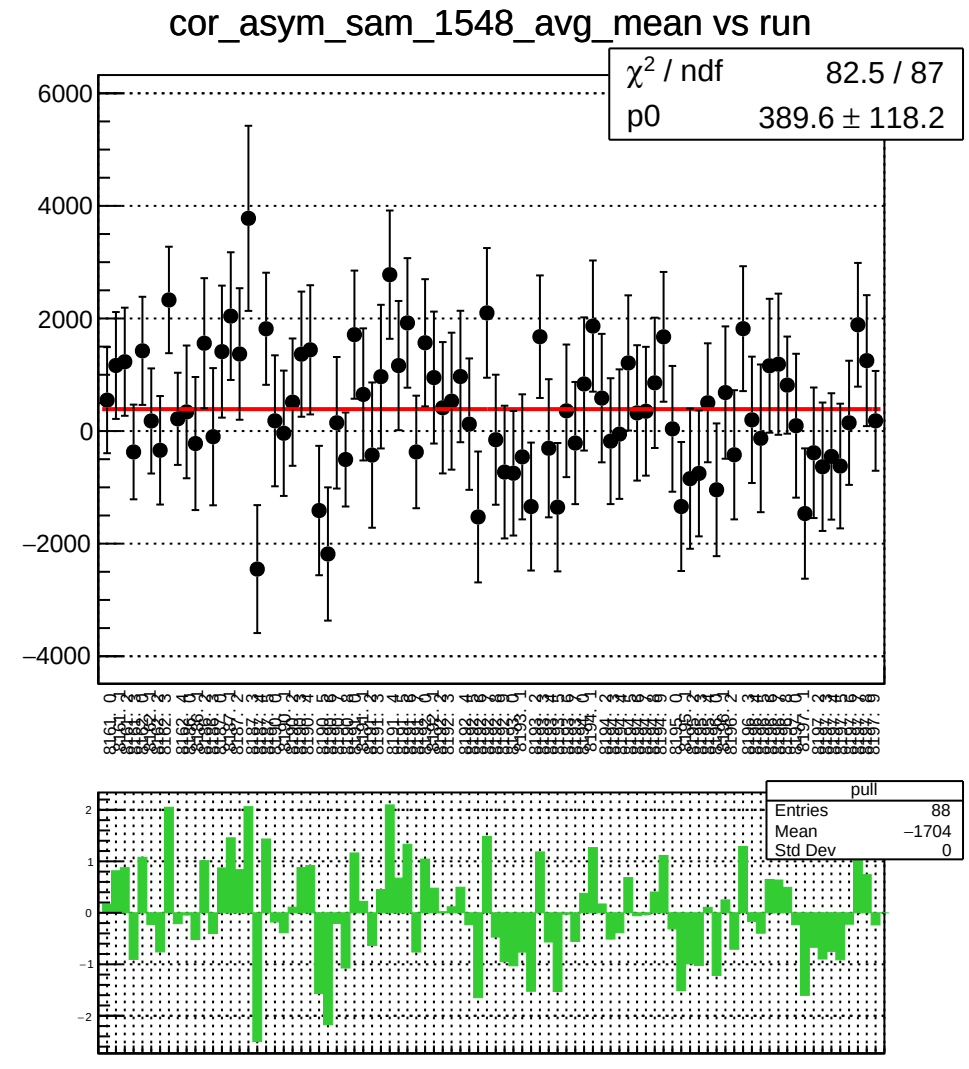

pull1D
Entries 88
Mean 0.002517
Std Dev 0.9682
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

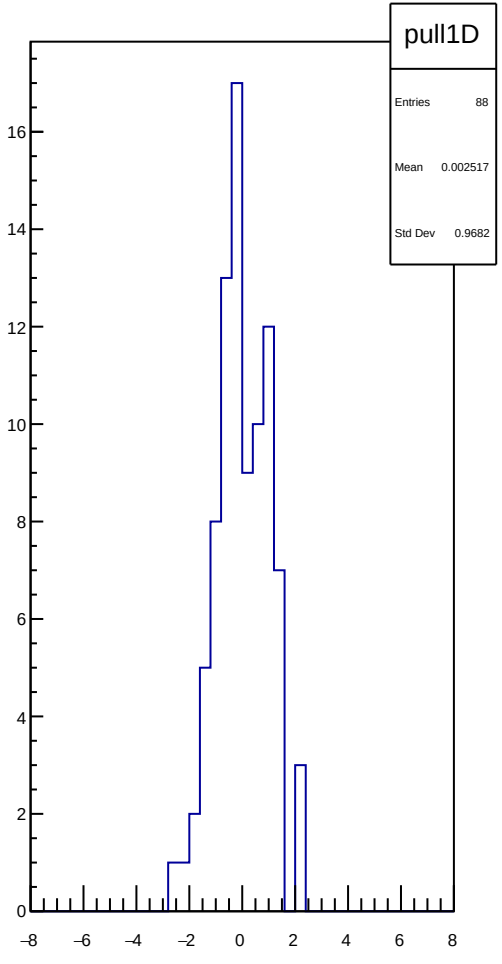

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.164e+04 / 87
p0 107.5 ± 0.08358
160
150
140
130
120
110
100
90

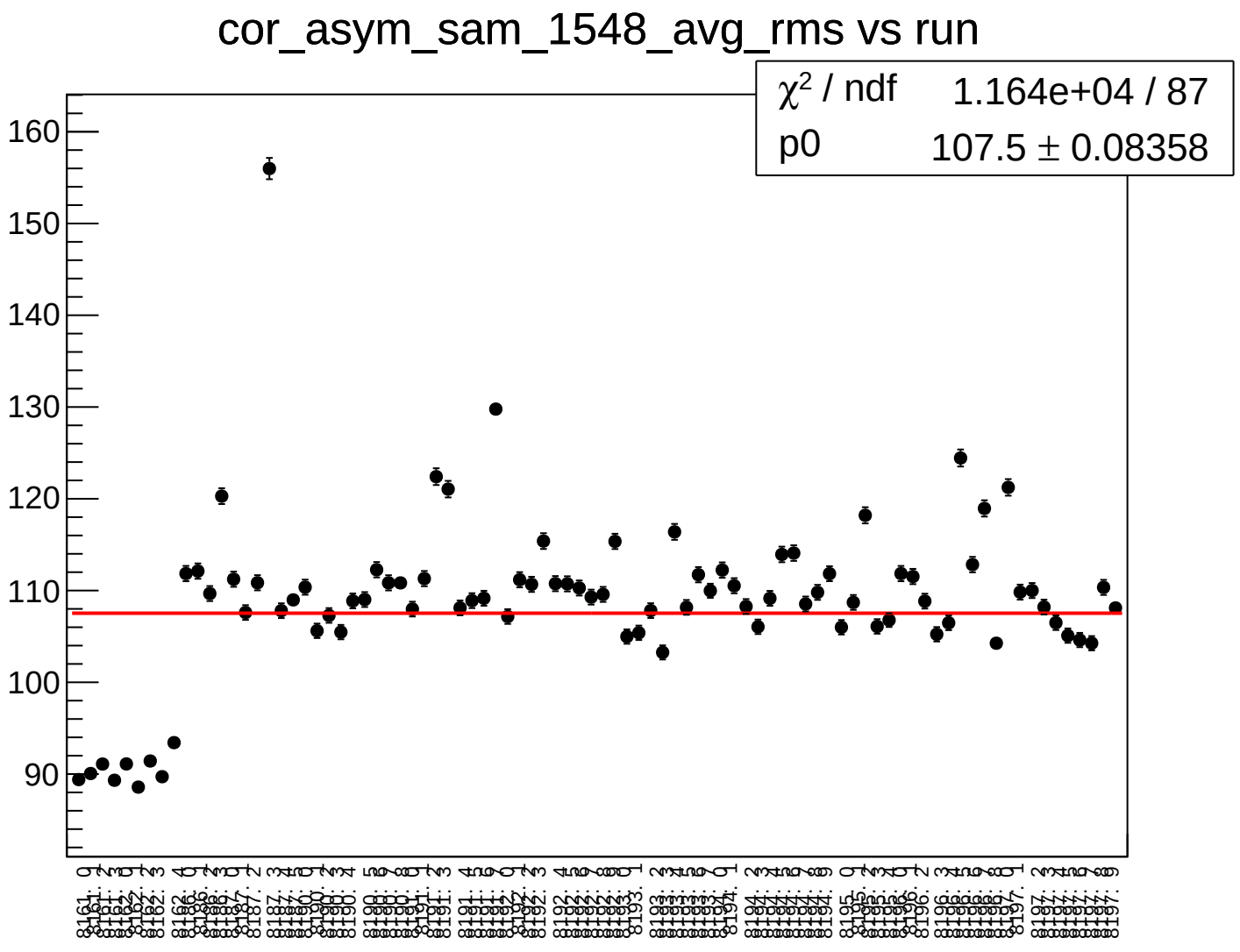

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 98.83 / 87
p0 −6419 ± 1332
pull
Entries 88
Mean −341.4
Std Dev 0

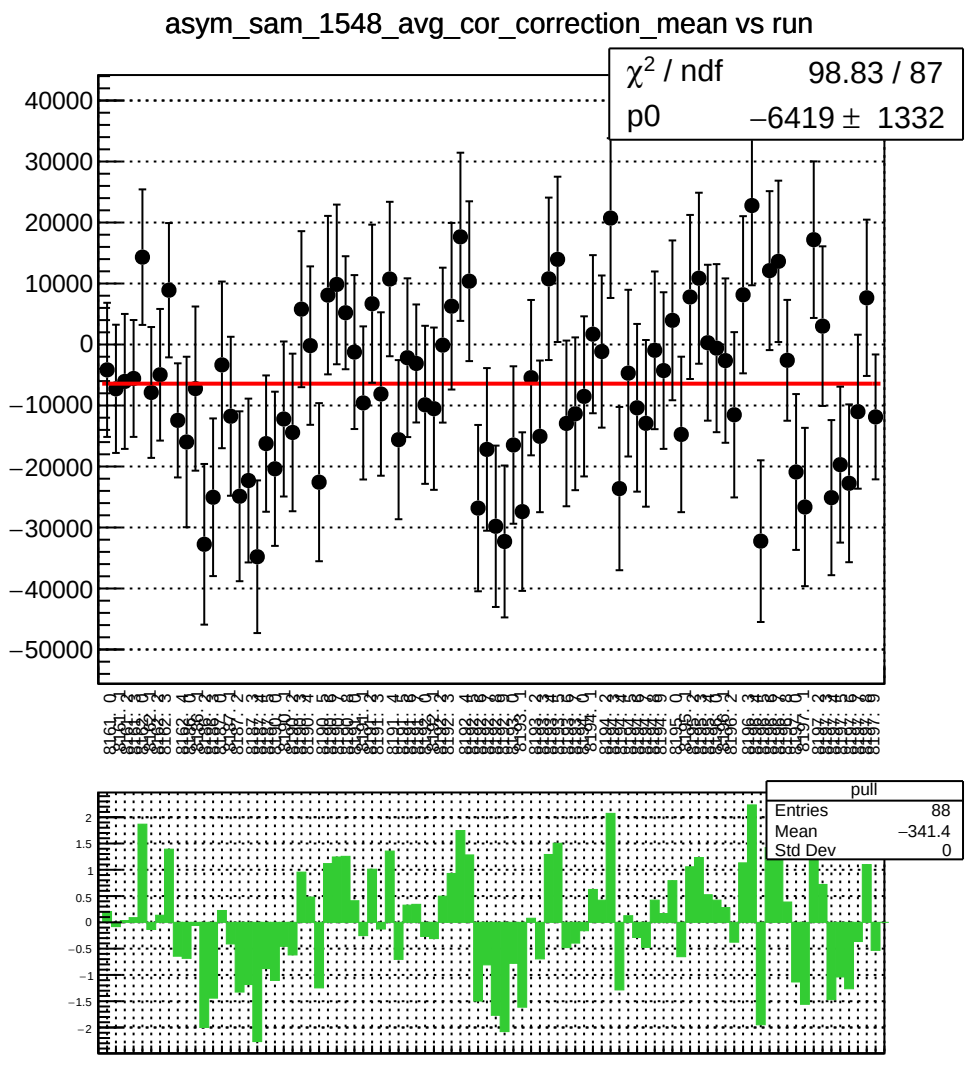

pull1D
Entries 88
Mean −0.006592
Std Dev 1.06

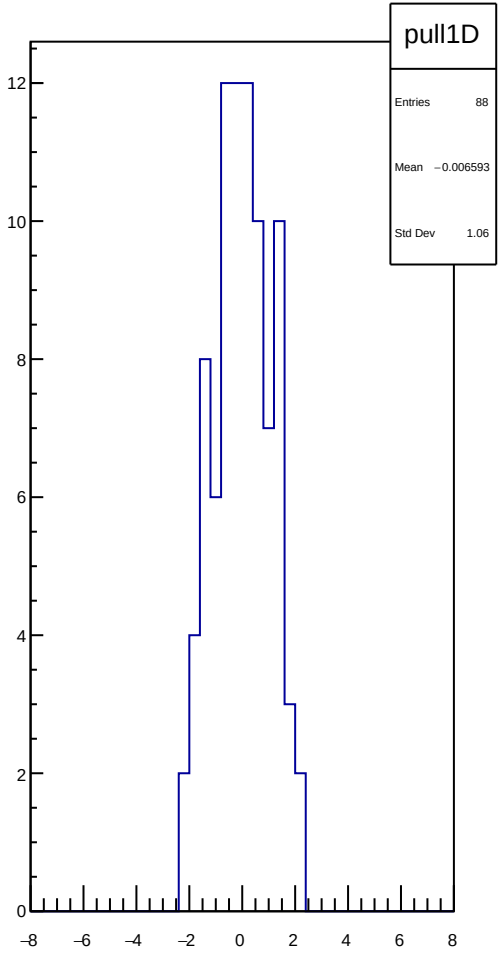

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 7294 / 87
p0 1213 ± 0.9417
1350
1300
1250
1200
1150
1100
1050
1000

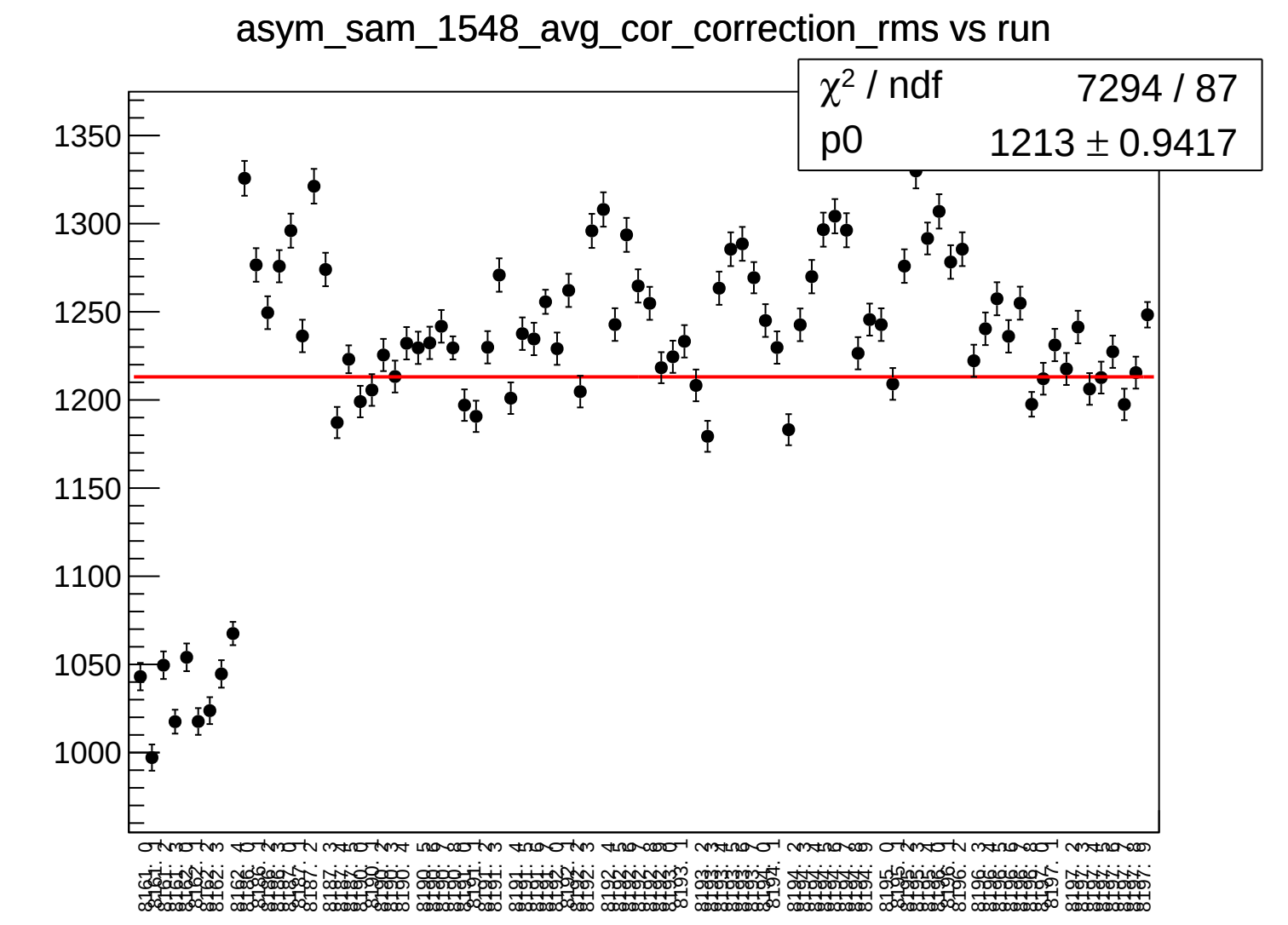

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 82.5 / 87
p0 389.6 ± 118.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1704
Std Dev 0
2
1
0
−1
−2

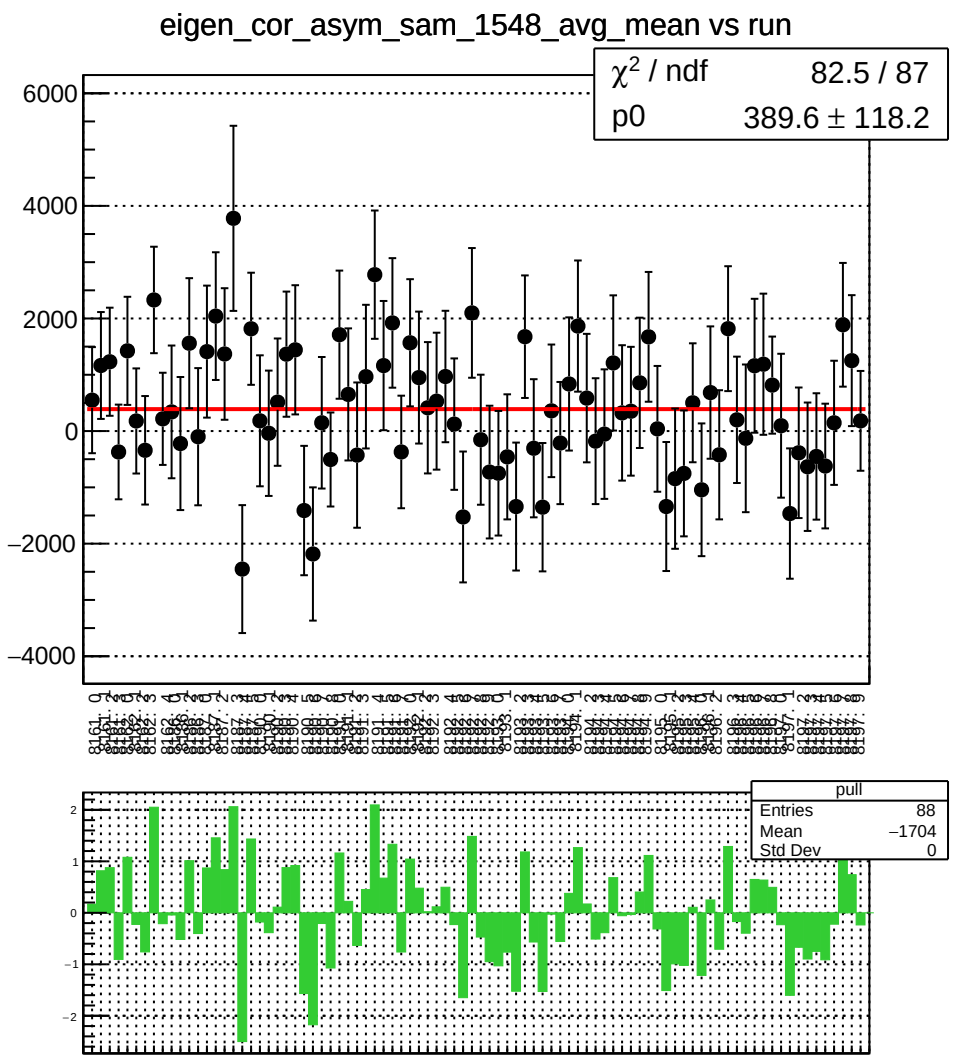

pull1D
Entries 88
Mean 0.002517
Std Dev 0.9682
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

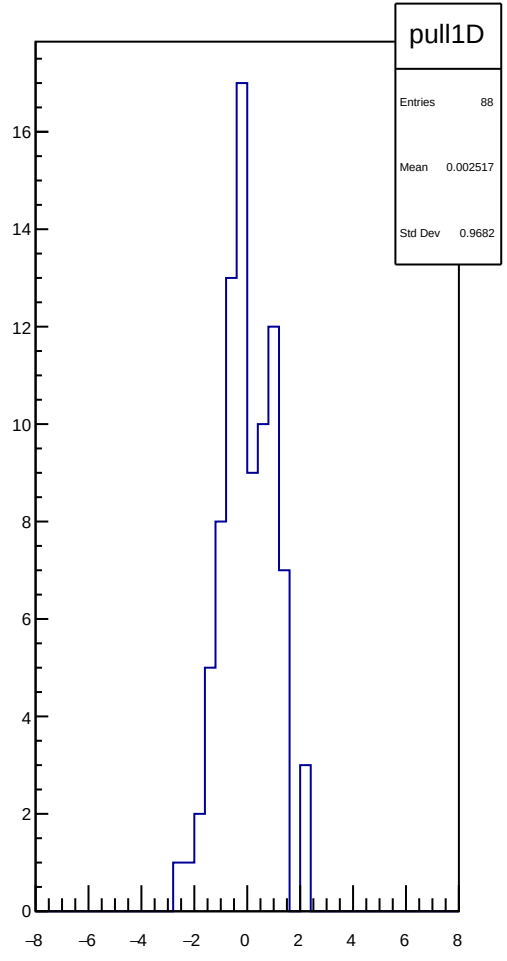

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.164e+04 / 87
p0 107.5 ± 0.08358
160
150
140
130
120
110
100
90

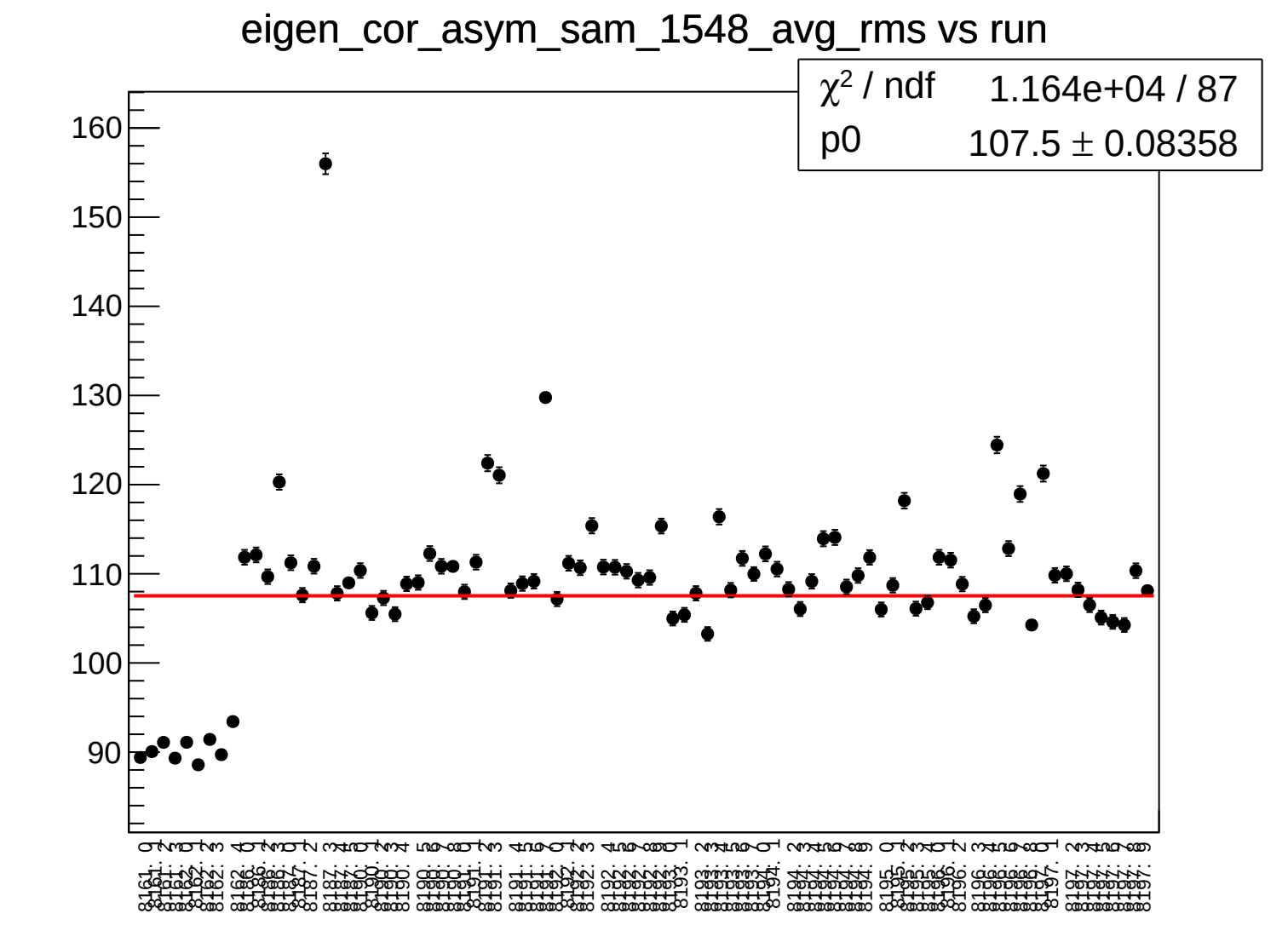

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 98.83 / 87
p0 −6419 ± 1332
pull
Entries 88
Mean −341.4
Std Dev 0

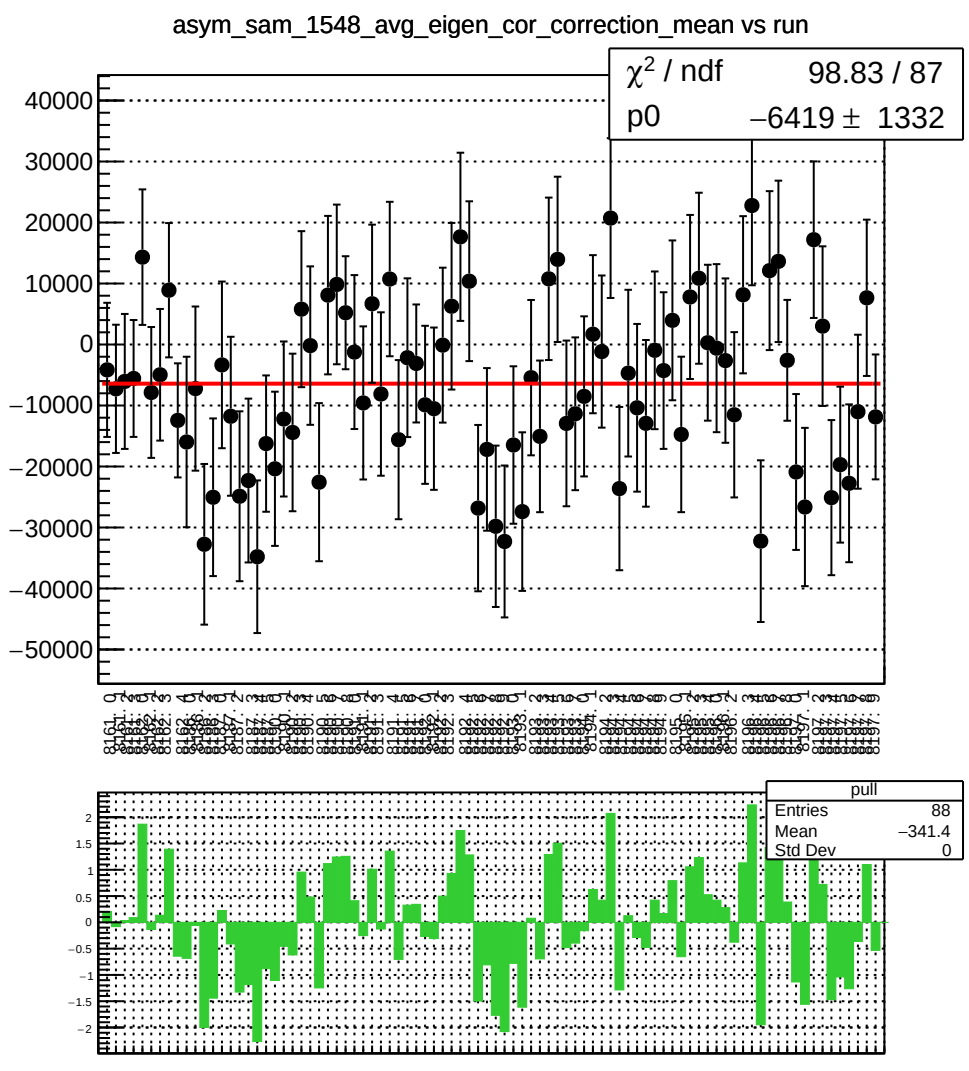

pull1D
Entries 88
Mean −0.006593
Std Dev 1.06

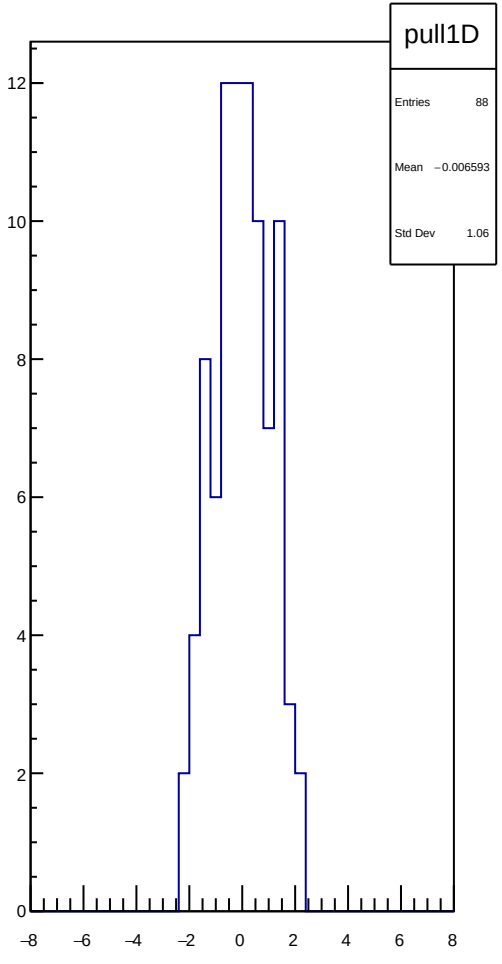

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 7294 / 87
p0 1213 ± 0.9417
1350
1300
1250
1200
1150
1100
1050
1000

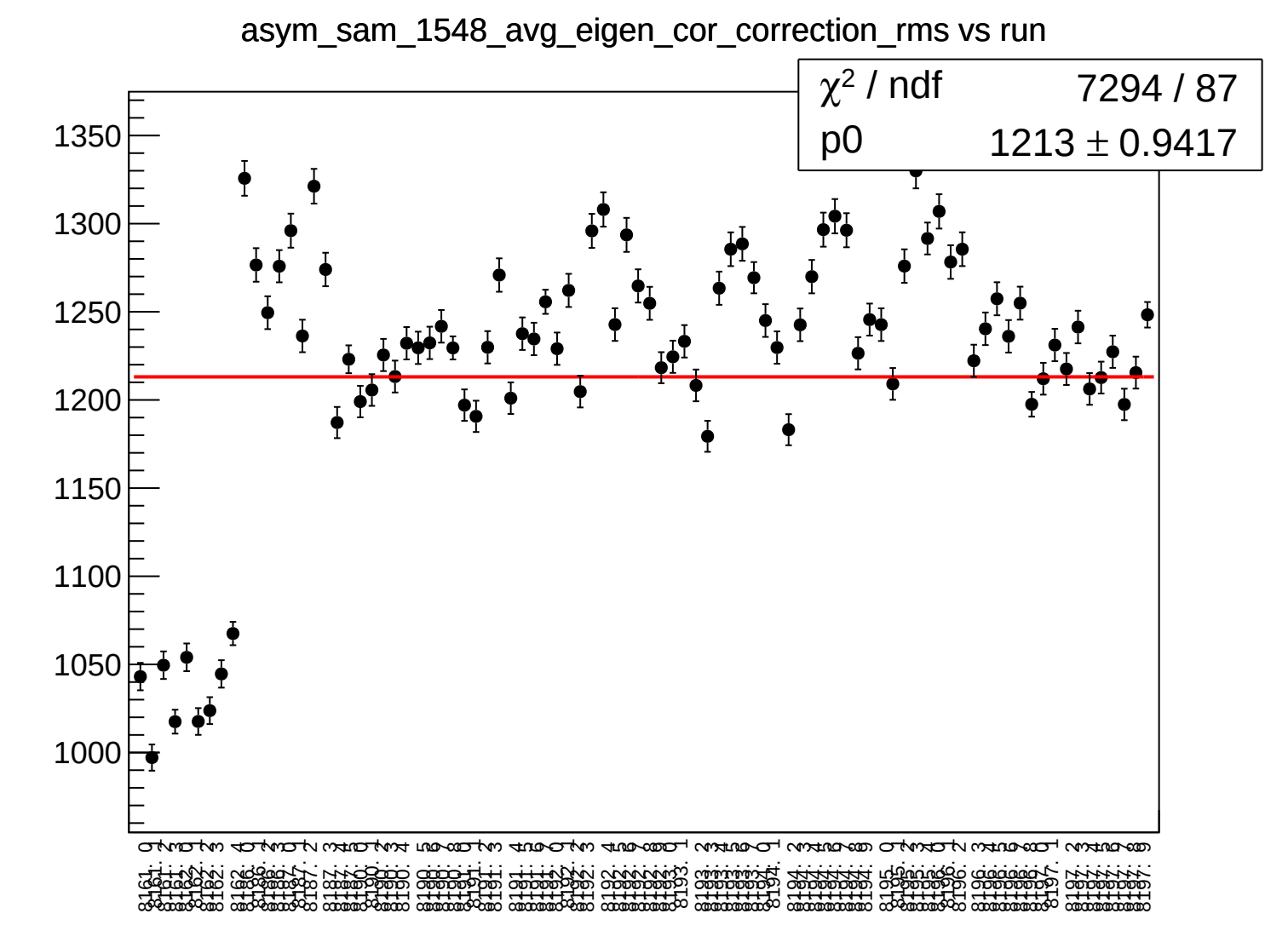

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 82.5 / 87
p0 389.6 ± 118.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1704
Std Dev 0
2
1
0
−1
−2

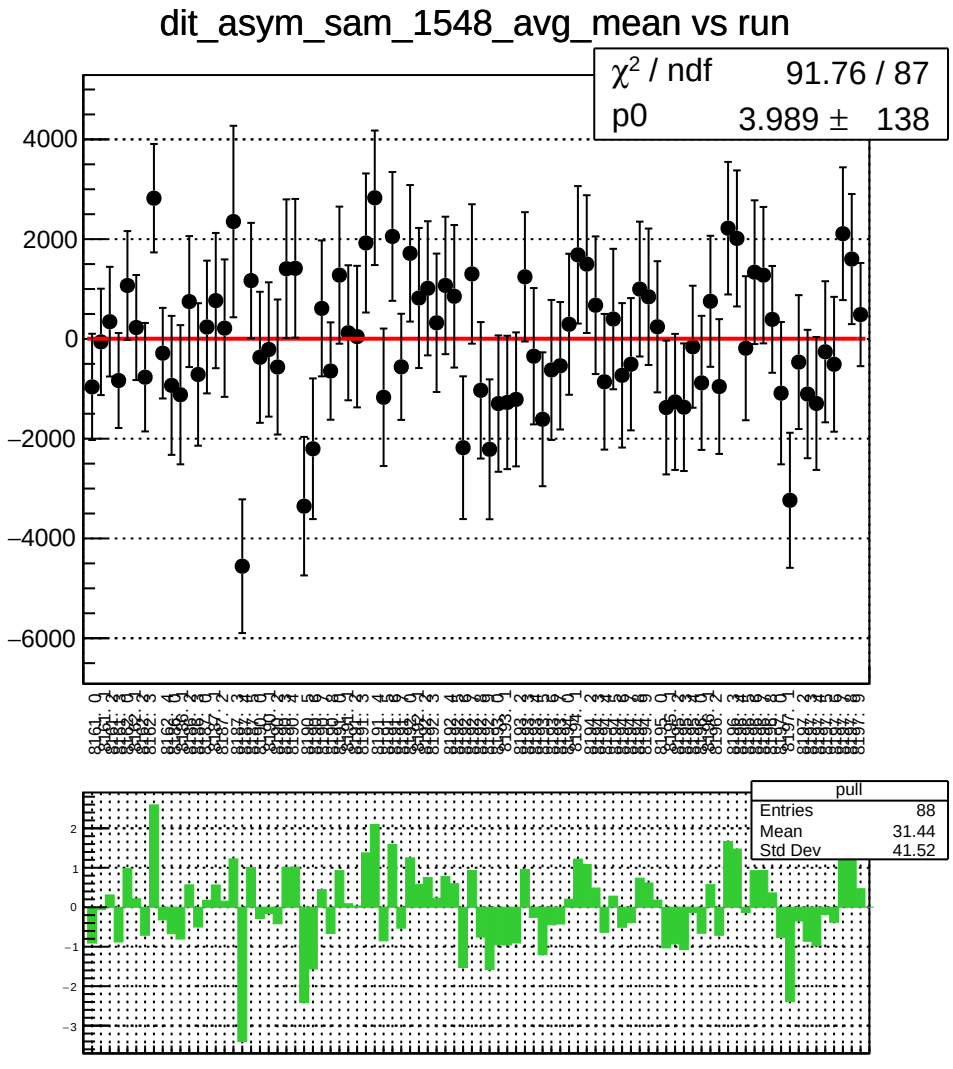

pull1D
Entries 88
Mean 0.002517
Std Dev 0.9682
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

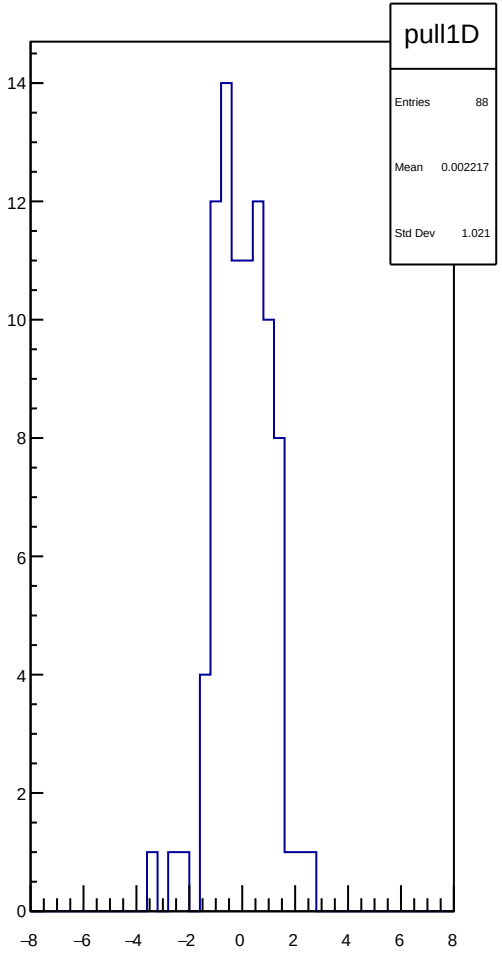

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.164e+04 / 87
p0 107.5 ± 0.08358
160
150
140
130
120
110
100
90

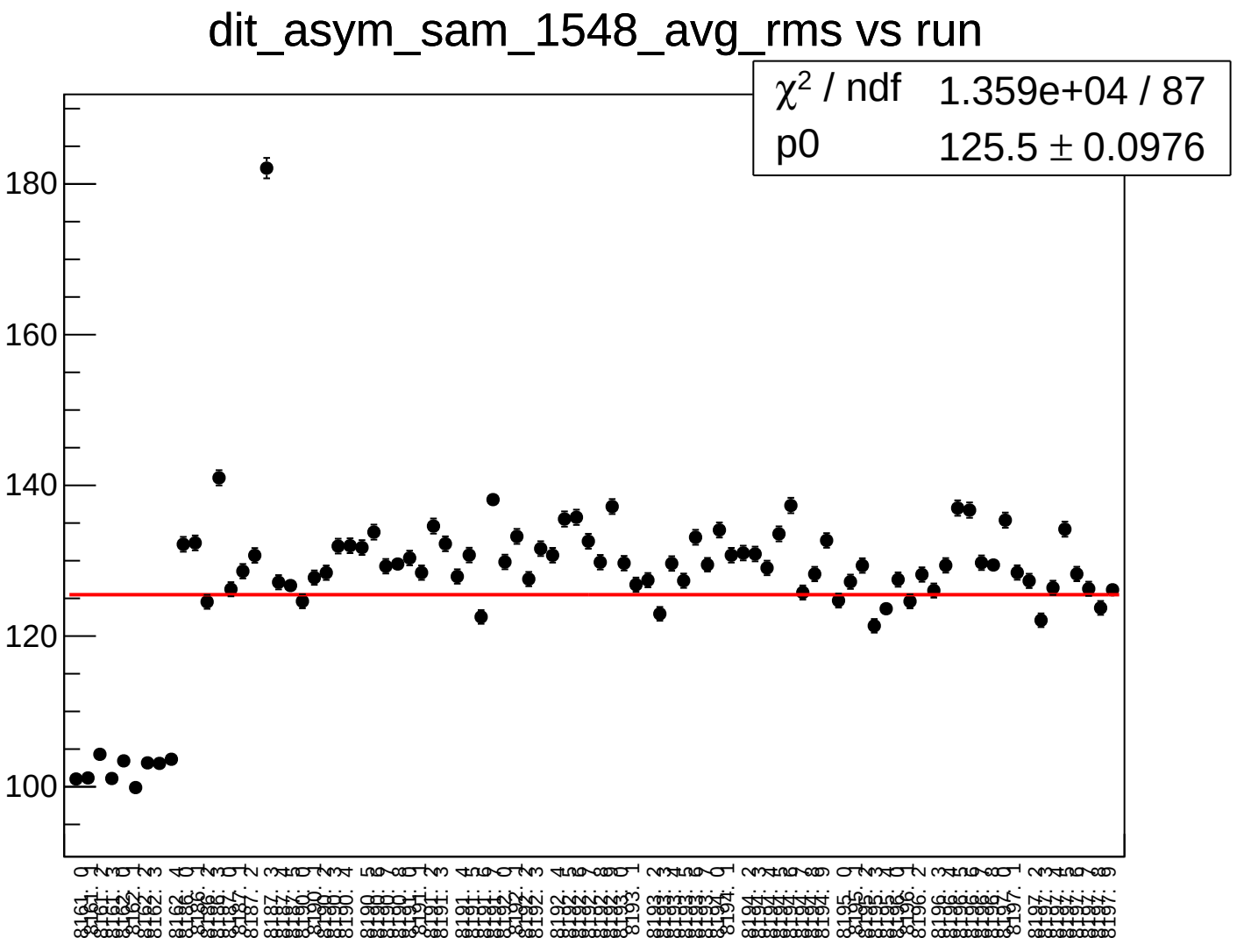

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.83 / 87
p0 −6419 ± 1332
pull
Entries 88
Mean −341.4
Std Dev 0

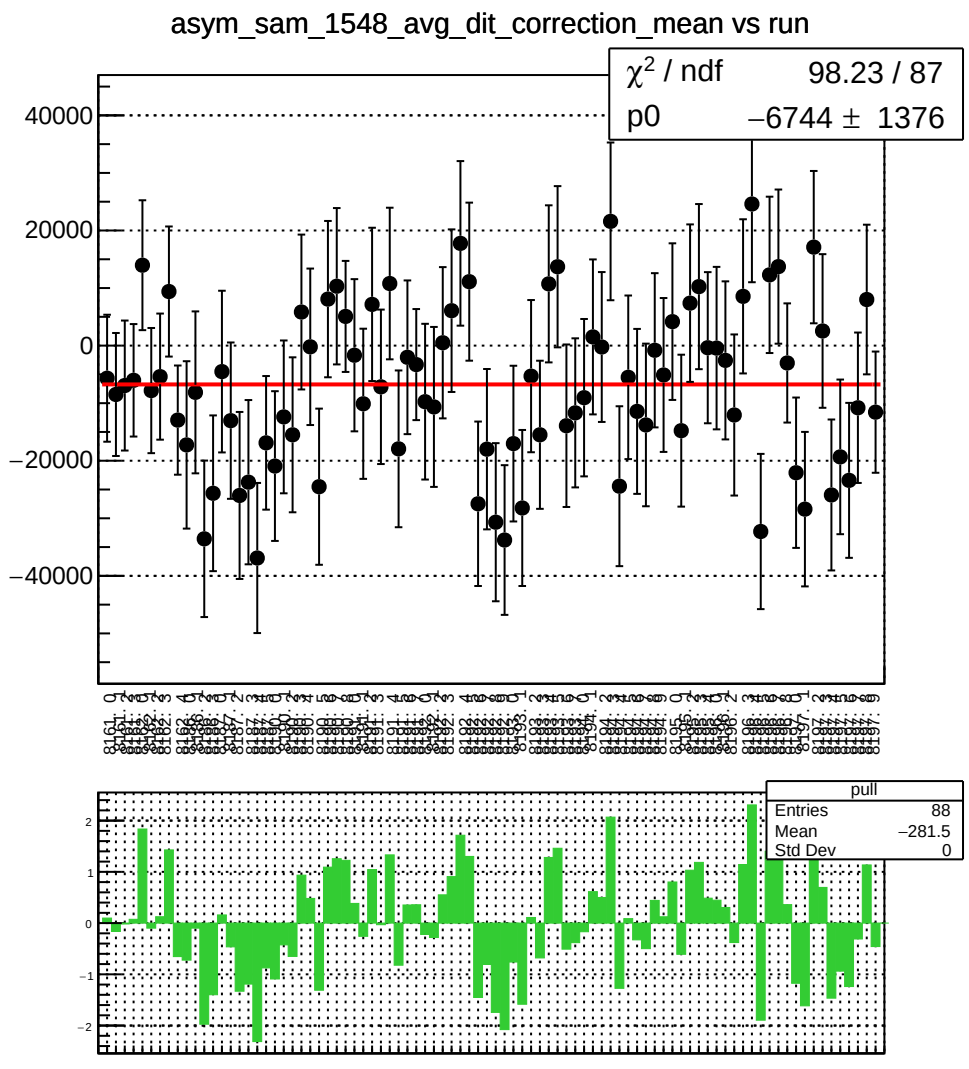

pull1D
Entries 88
Mean −0.006593
Std Dev 1.06

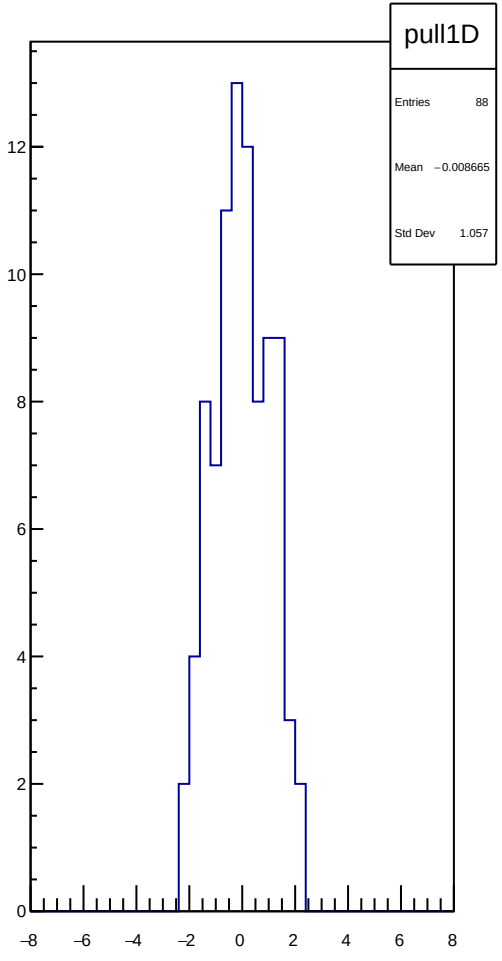

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 7294 / 87
p0 1213 ± 0.9417
1350
1300
1250
1200
1150
1100
1050
1000

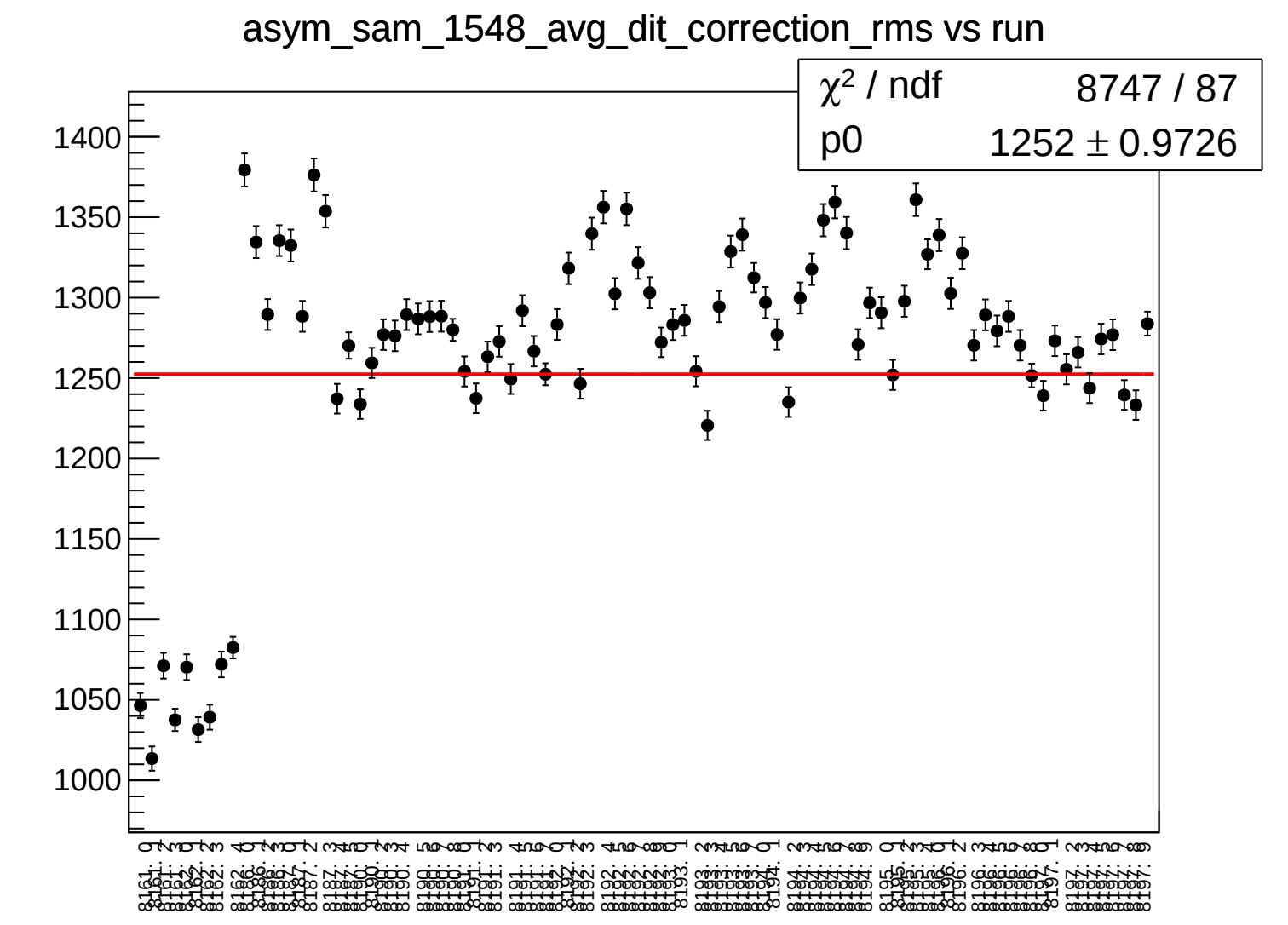

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 91.76 / 87
p0 3.989 ± 138
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 31.44
Std Dev 41.52
2
1
0
−1
−2
−3

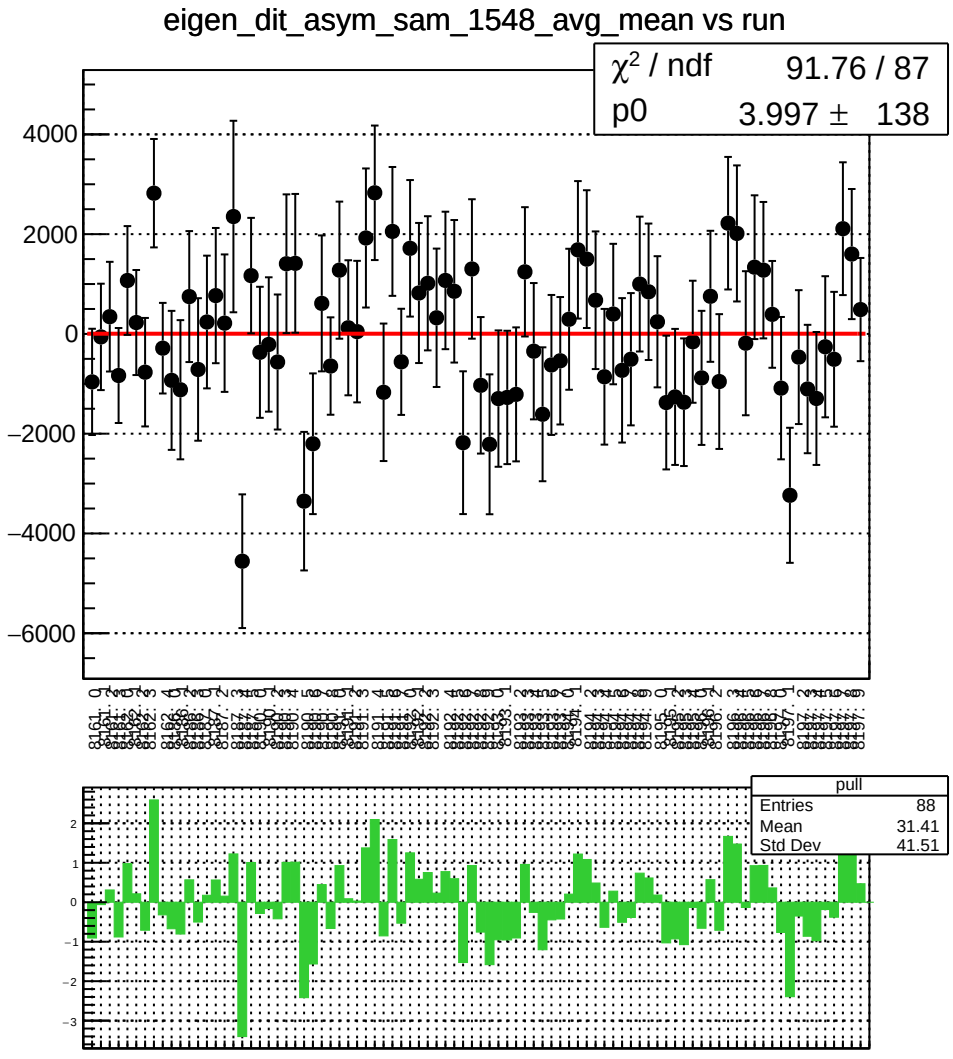

pull1D
Entries 88
Mean 0.002217
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

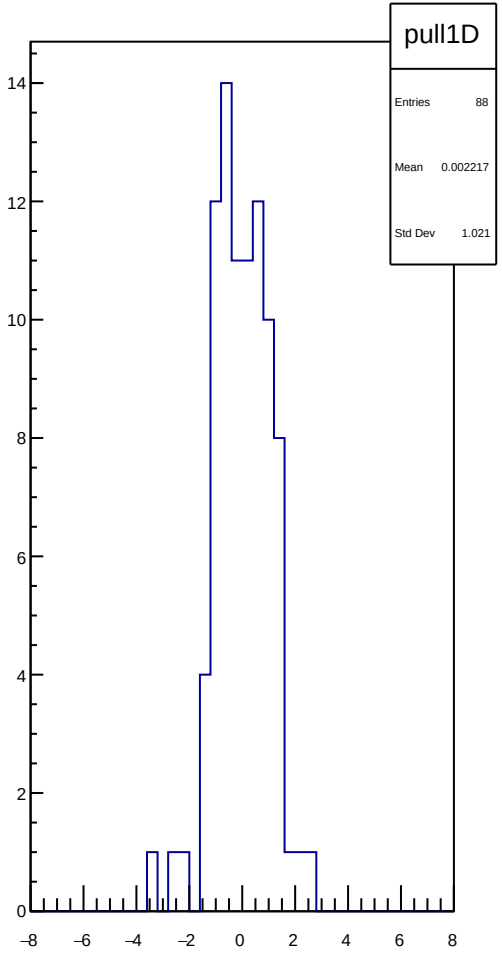

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.359e+04 / 87
p0 125.5 ± 0.0976
180
160
140
120
100

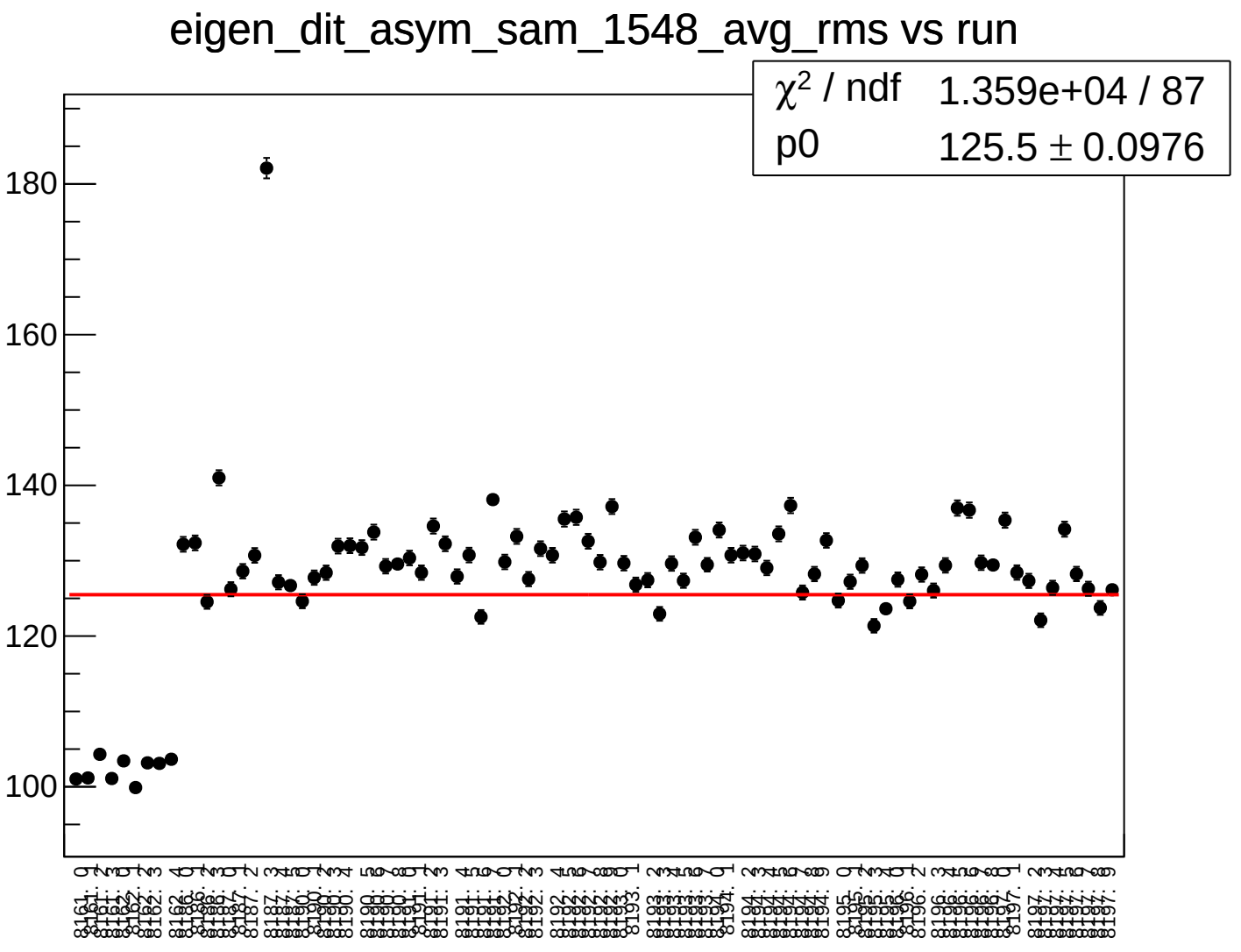

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 98.23 / 87
p0 −6744 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −281.5
Std Dev 0
2
1
0
−1
−2

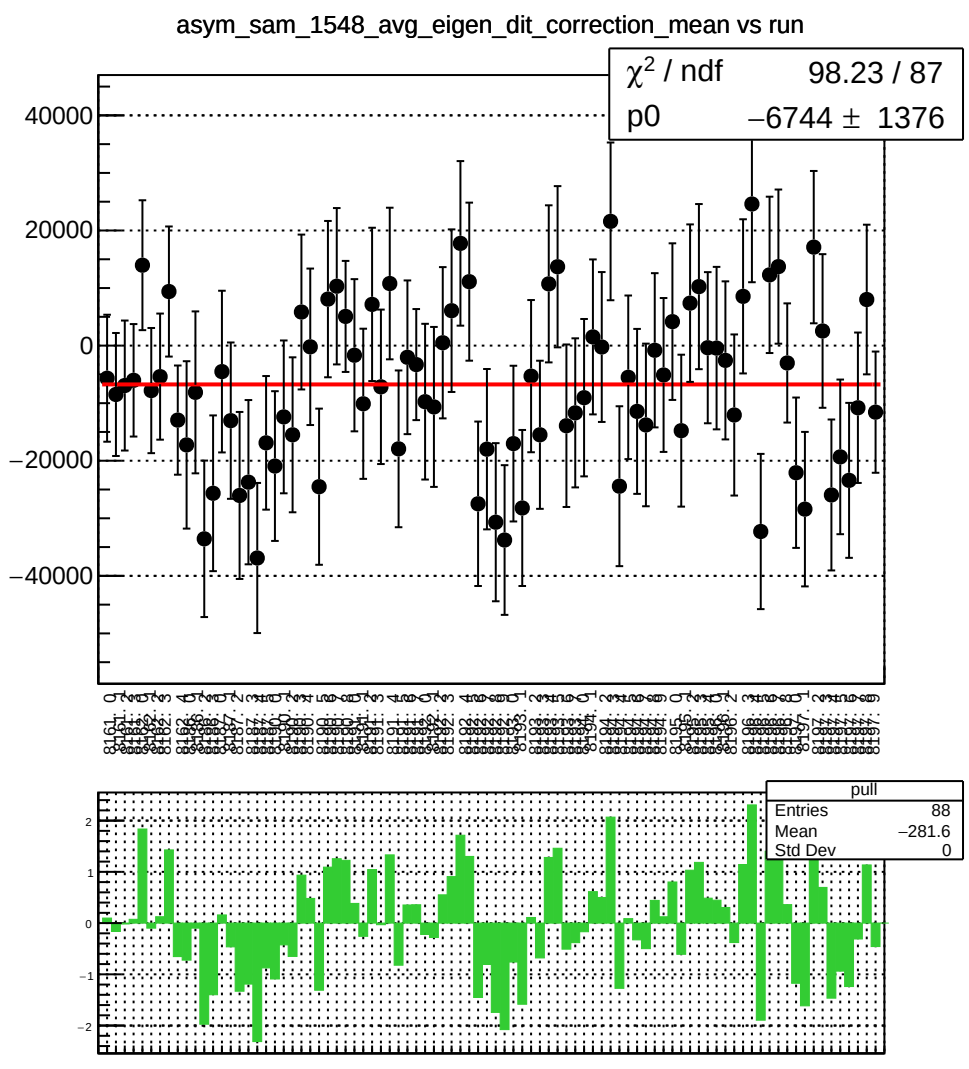

pull1D
Entries 88
Mean −0.008665
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

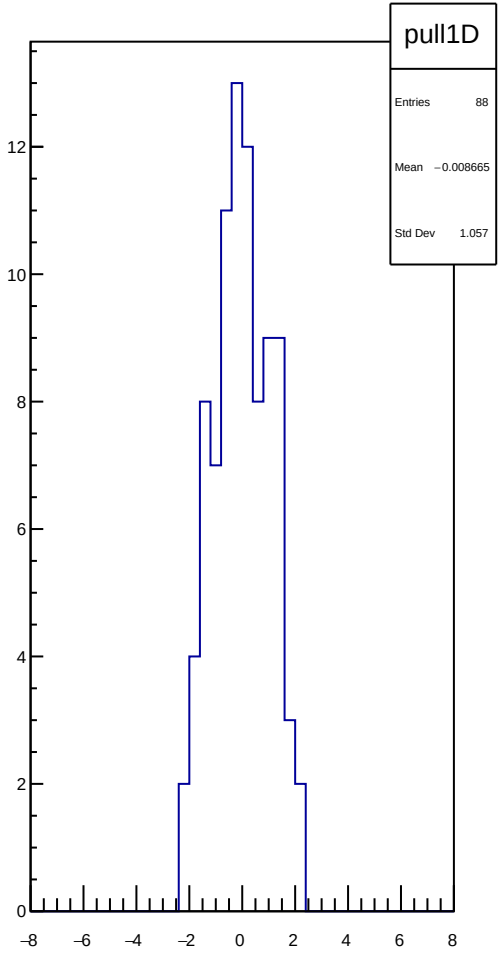

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 8747 / 87
p0 1252 ± 0.9726
1400
1350
1300
1250
1200
1150
1100
1050
1000

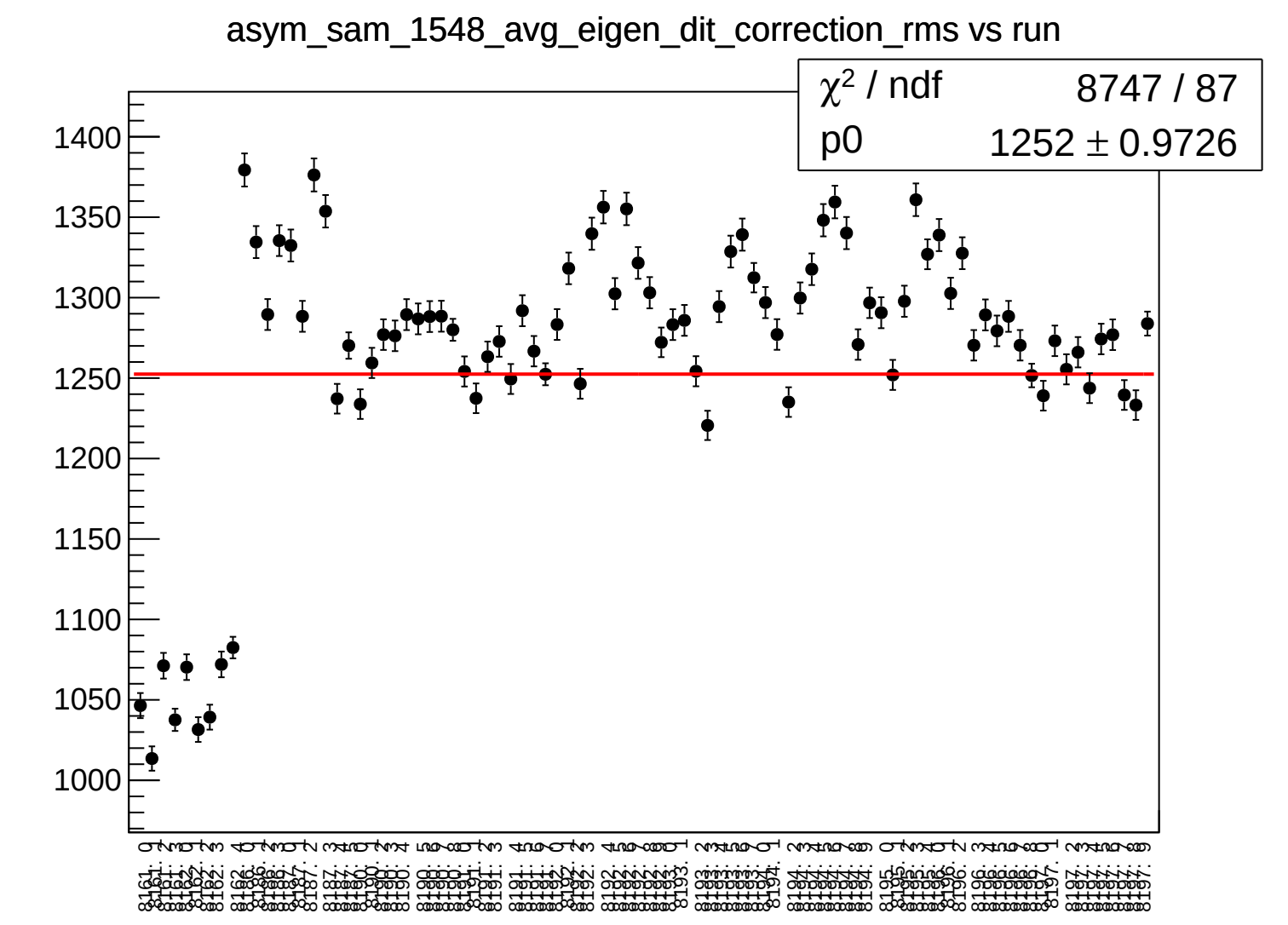

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 91.76 / 87
p0 3.997 ± 138
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 31.41
Std Dev 41.51
2
1
0
−1
−2
−3

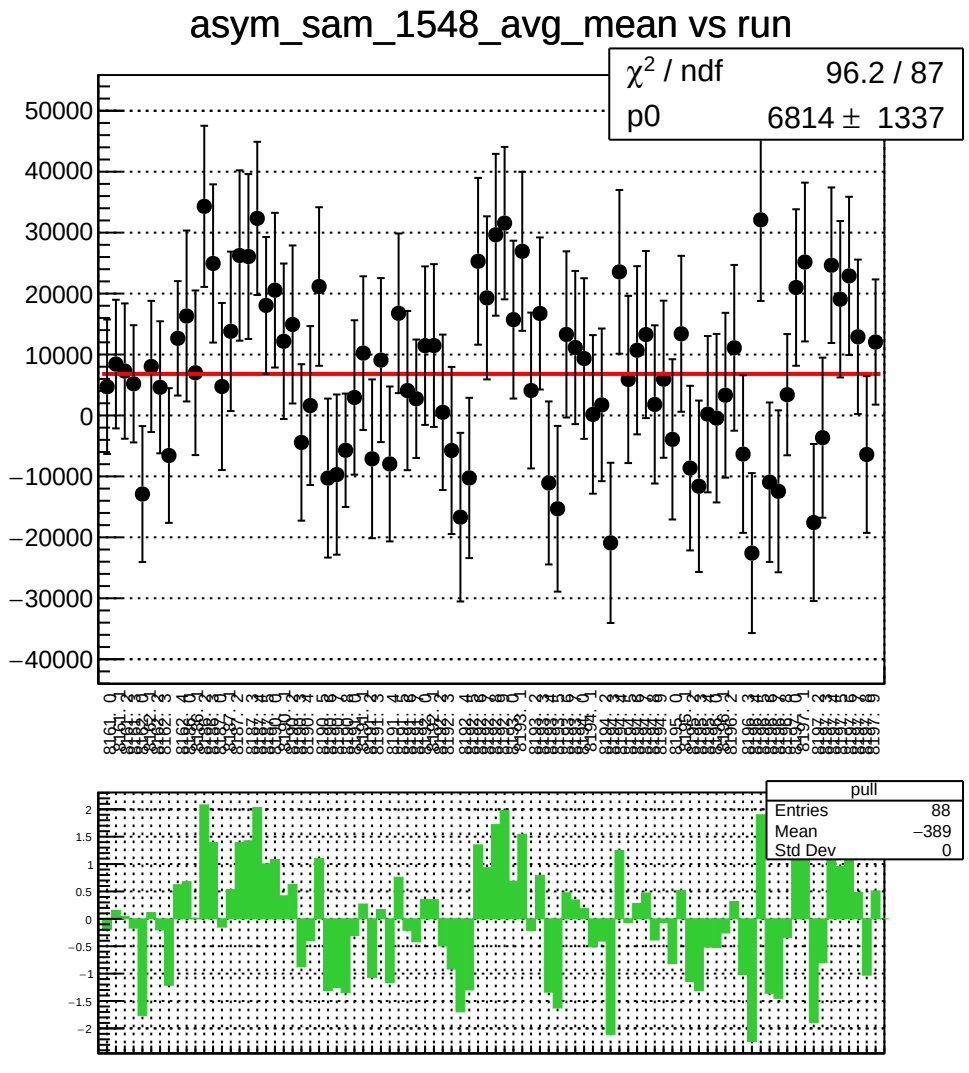

pull1D
Entries 88
Mean 0.002217
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

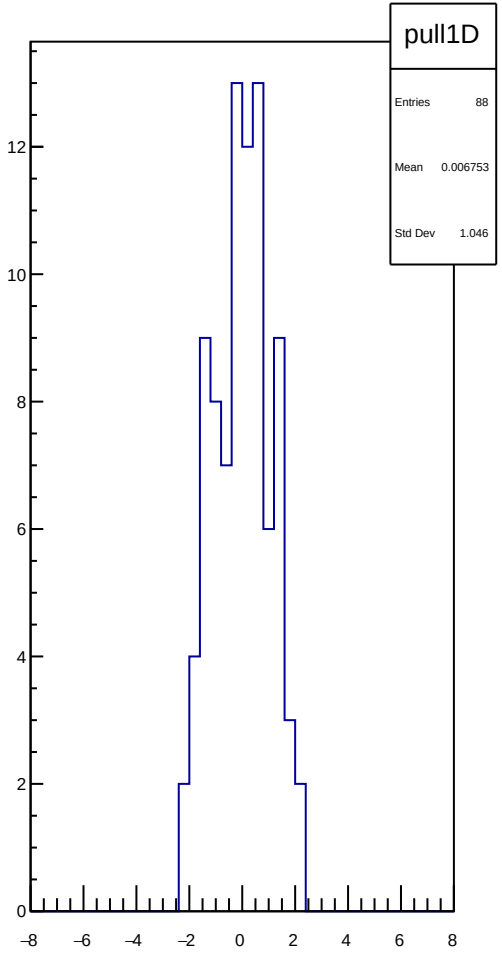

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.359e+04 / 87
p0 125.5 ± 0.0976
180
160
140
120
100

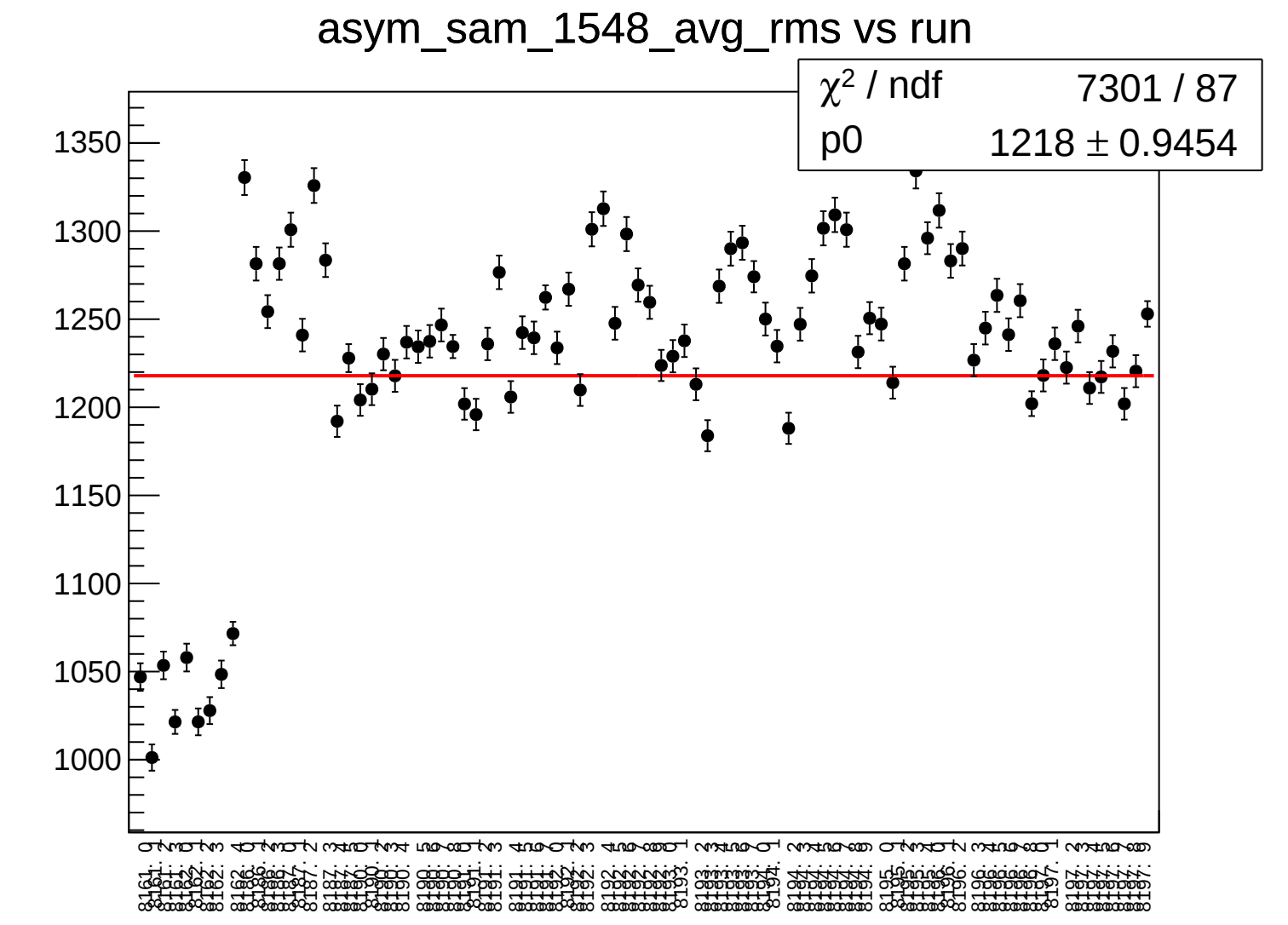

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.23 / 87
p0 −6744 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −281.6
Std Dev 0
2
1
0
−1
−2

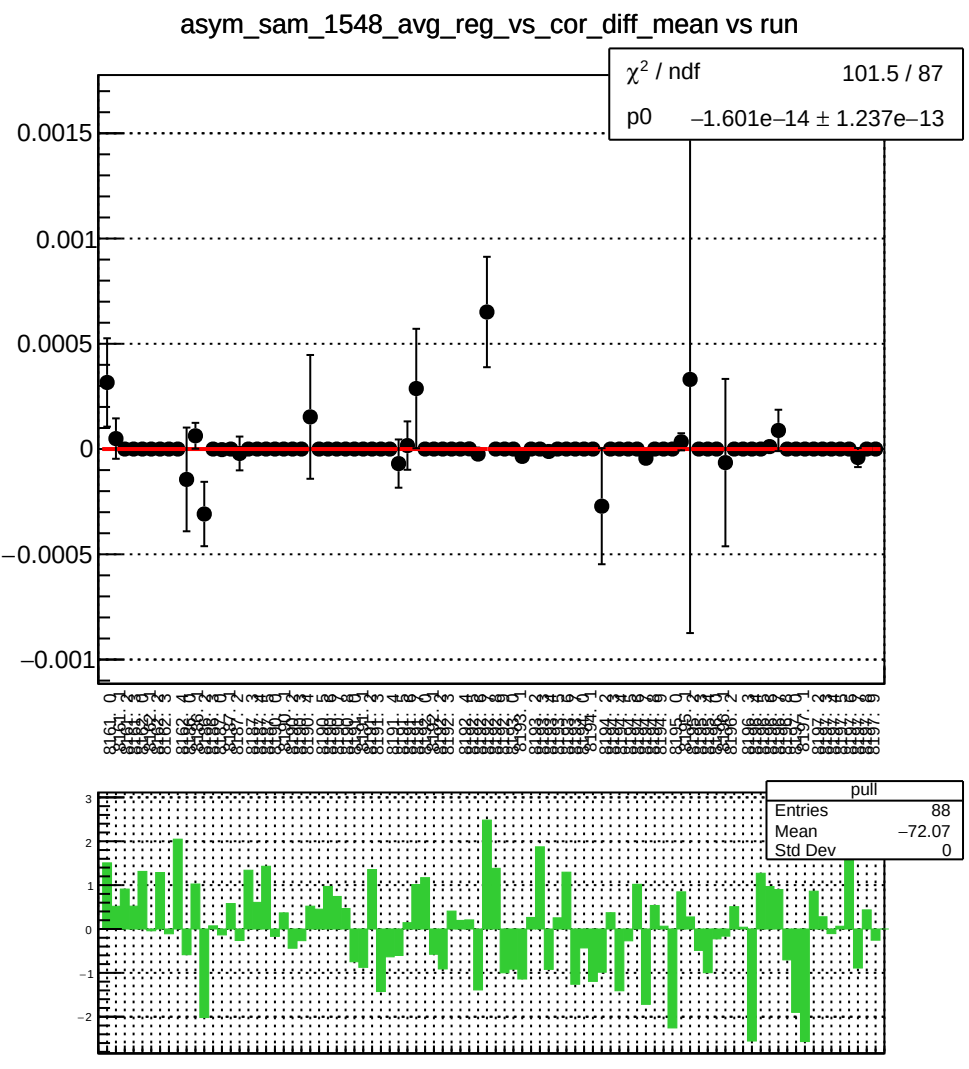

pull1D
Entries 88
Mean −0.008665
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

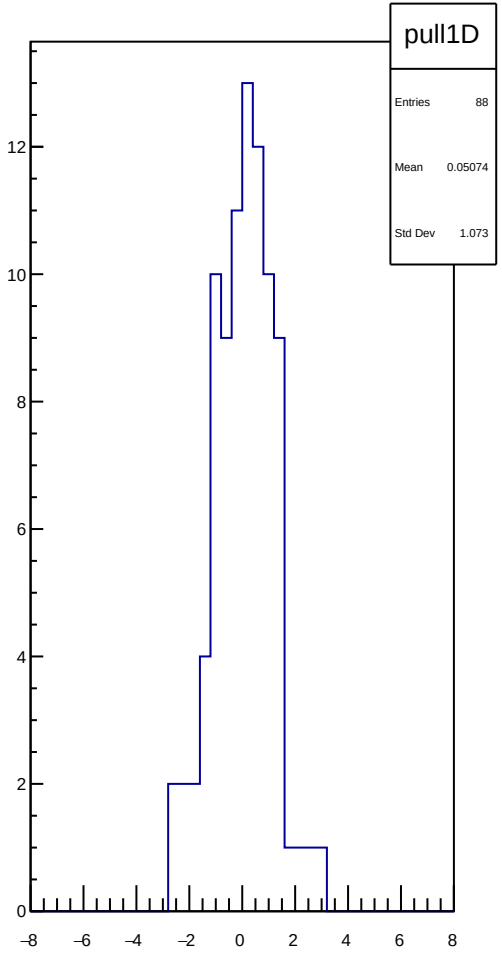

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 8747 / 87
p0 1252 ± 0.9726
1400
1350
1300
1250
1200
1150
1100
1050
1000

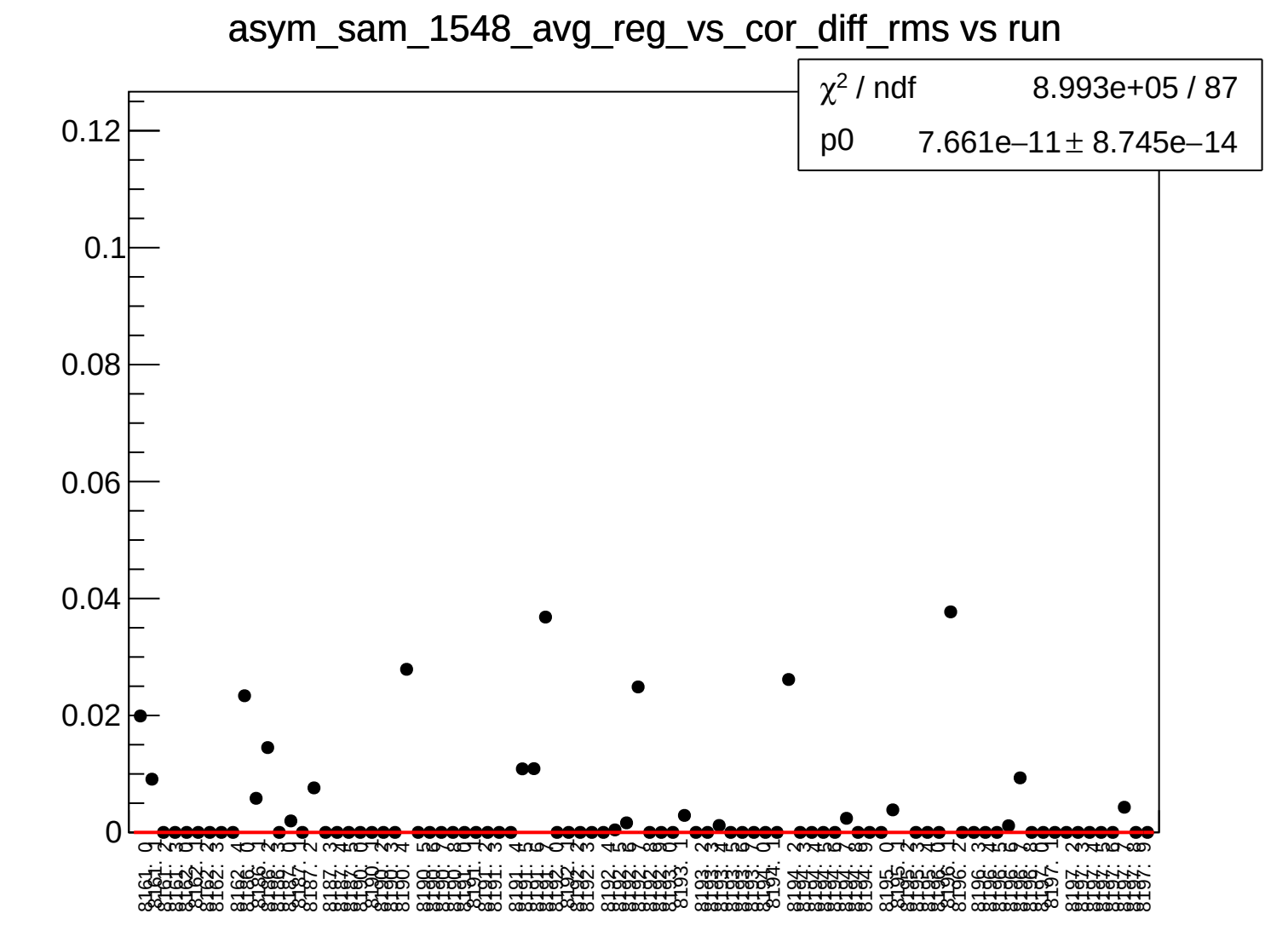

asym_sam_1548_avg_mean vs run
χ² / ndf 96.2 / 87
p0 6814 ± 1337
pull
Entries 88
Mean −389
Std Dev 0

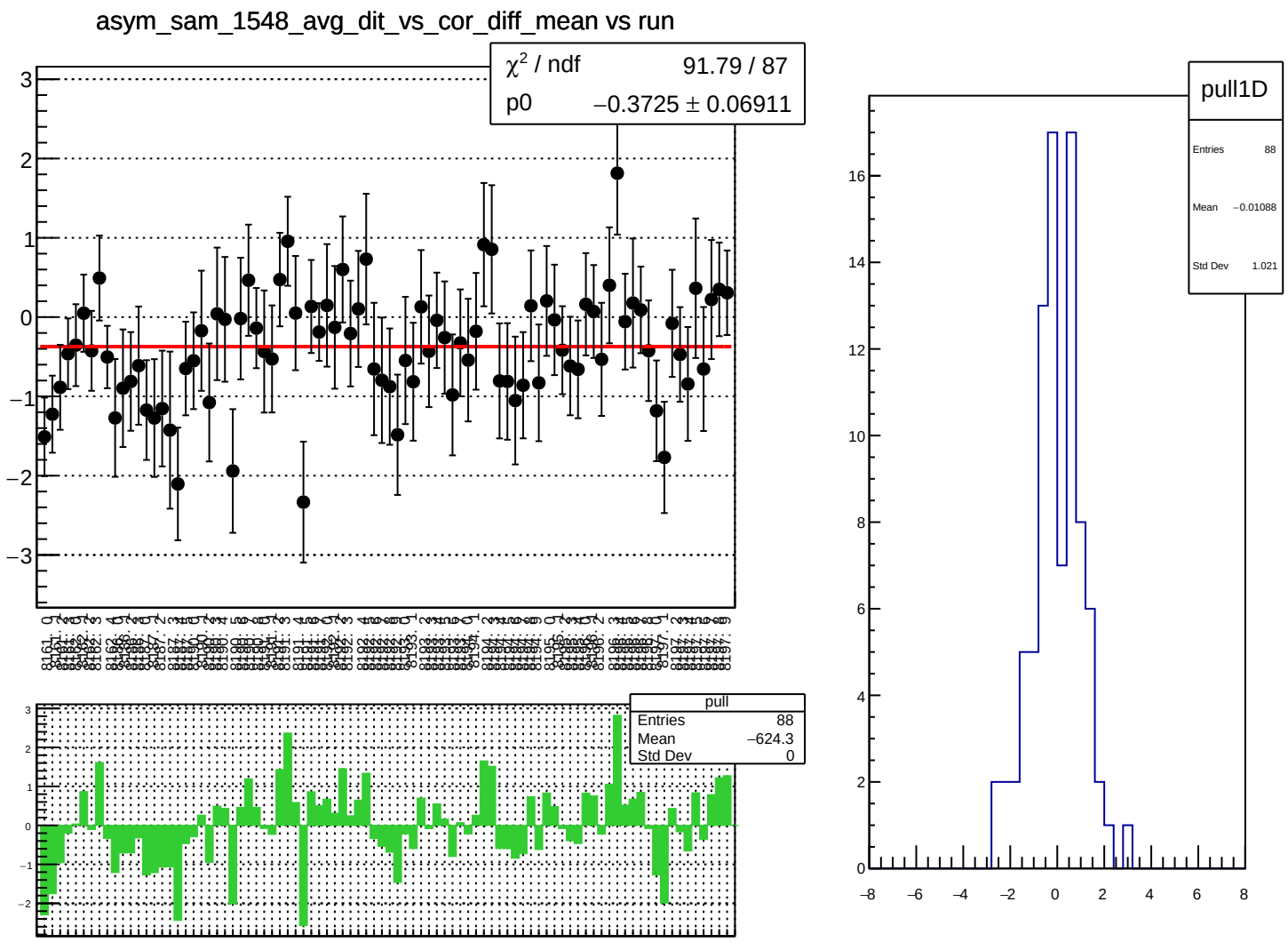

pull1D
Entries 88
Mean 0.006753
Std Dev 1.046

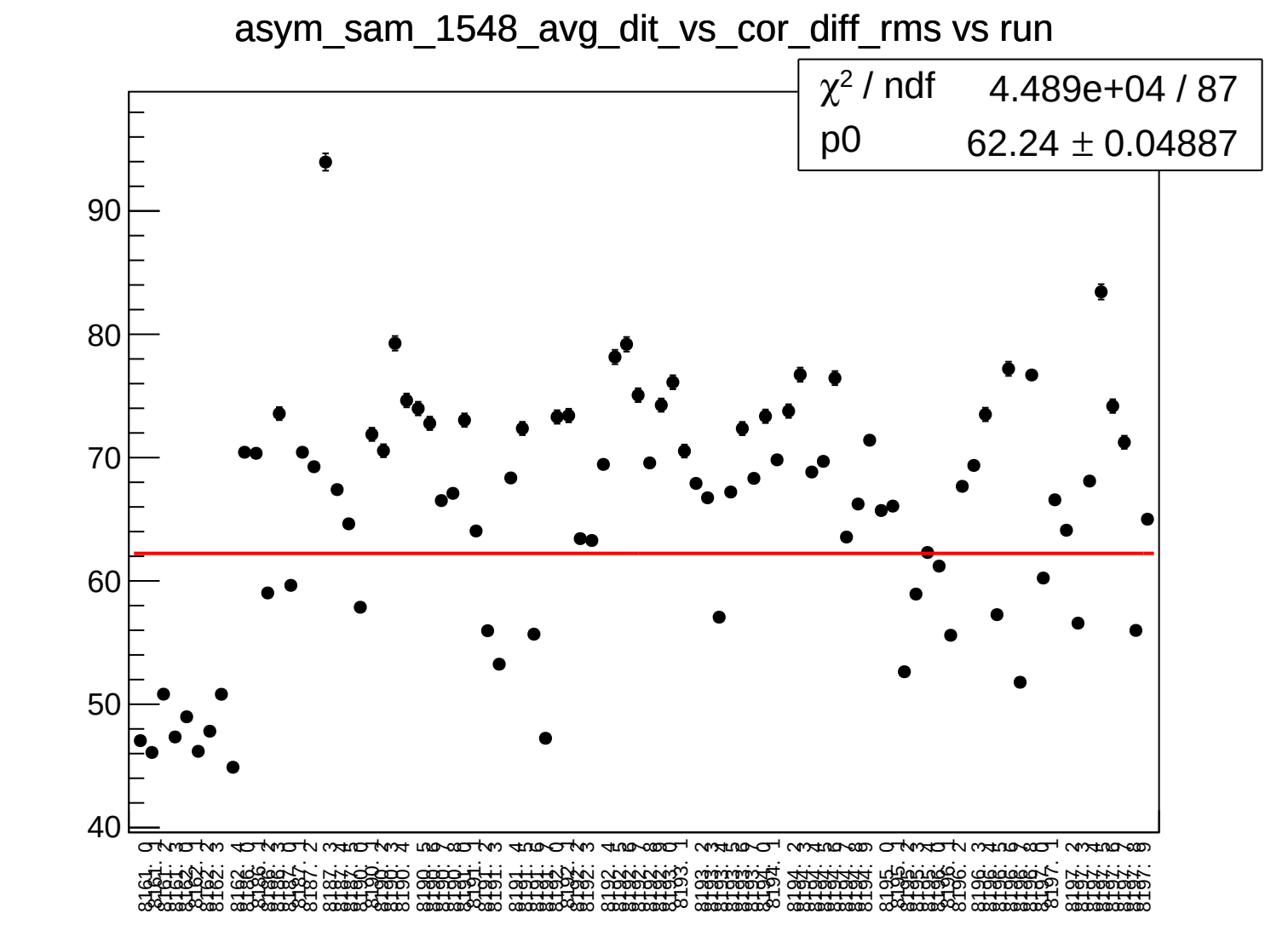

asym_sam_1548_avg_rms vs run
χ² / ndf 7301 / 87
p0 1218 ± 0.9454
1350
1300
1250
1200
1150
1100
1050
1000

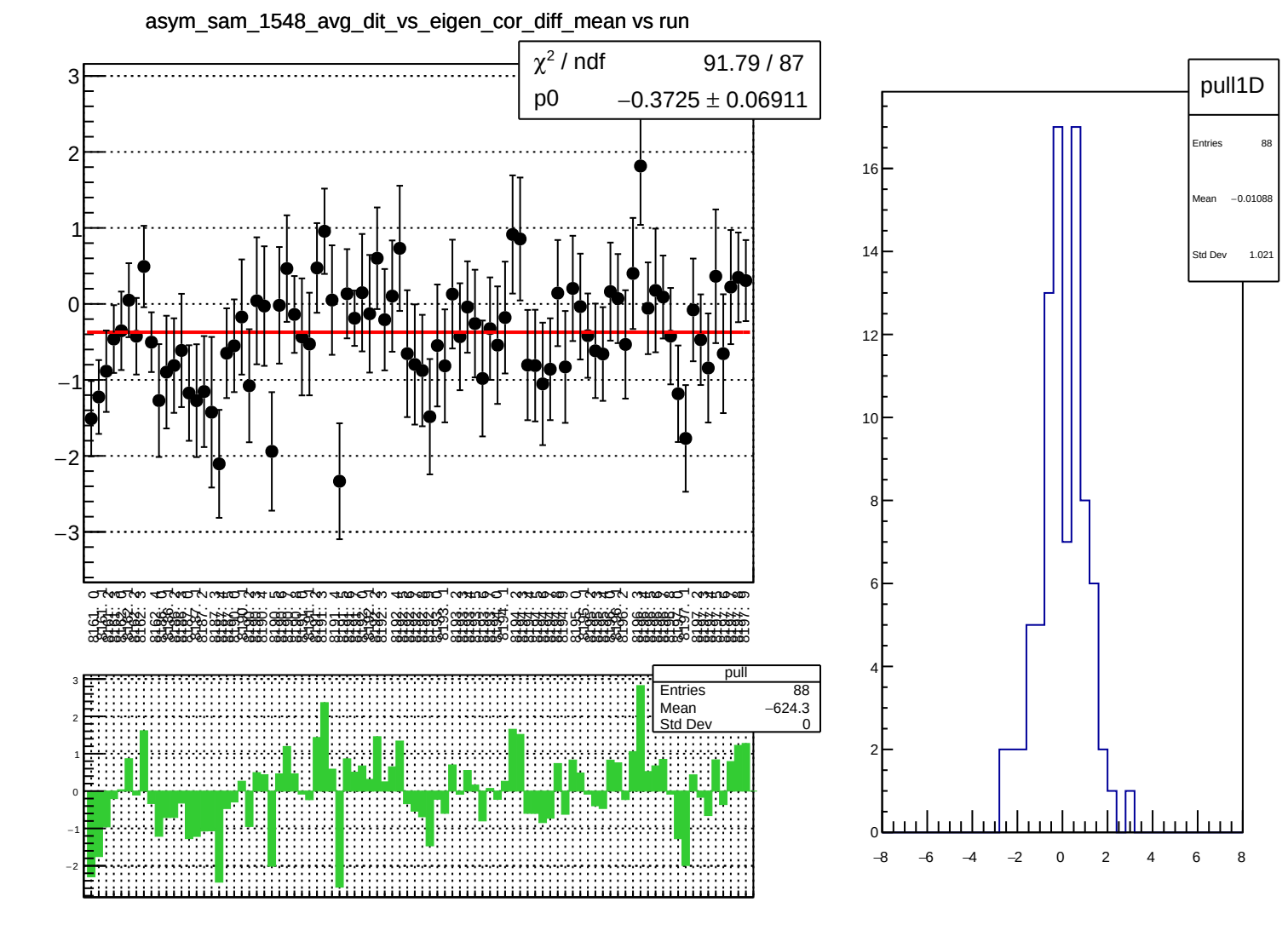

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 87
p0 −1.601e−14 ± 1.237e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean −72.07
Std Dev 0
3
2
1
0
−1
−2

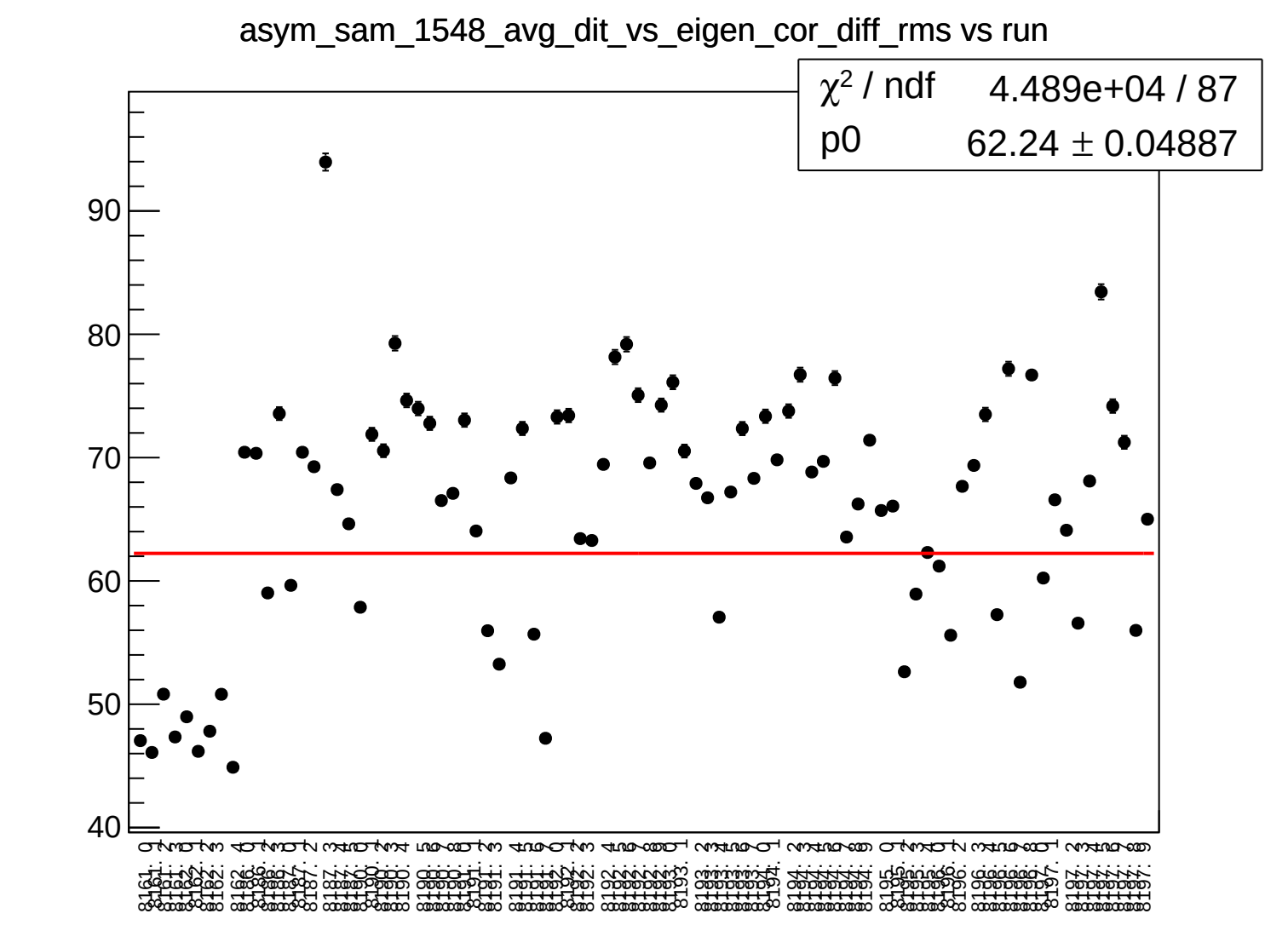

pull1D
Entries 88
Mean 0.05074
Std Dev 1.073
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

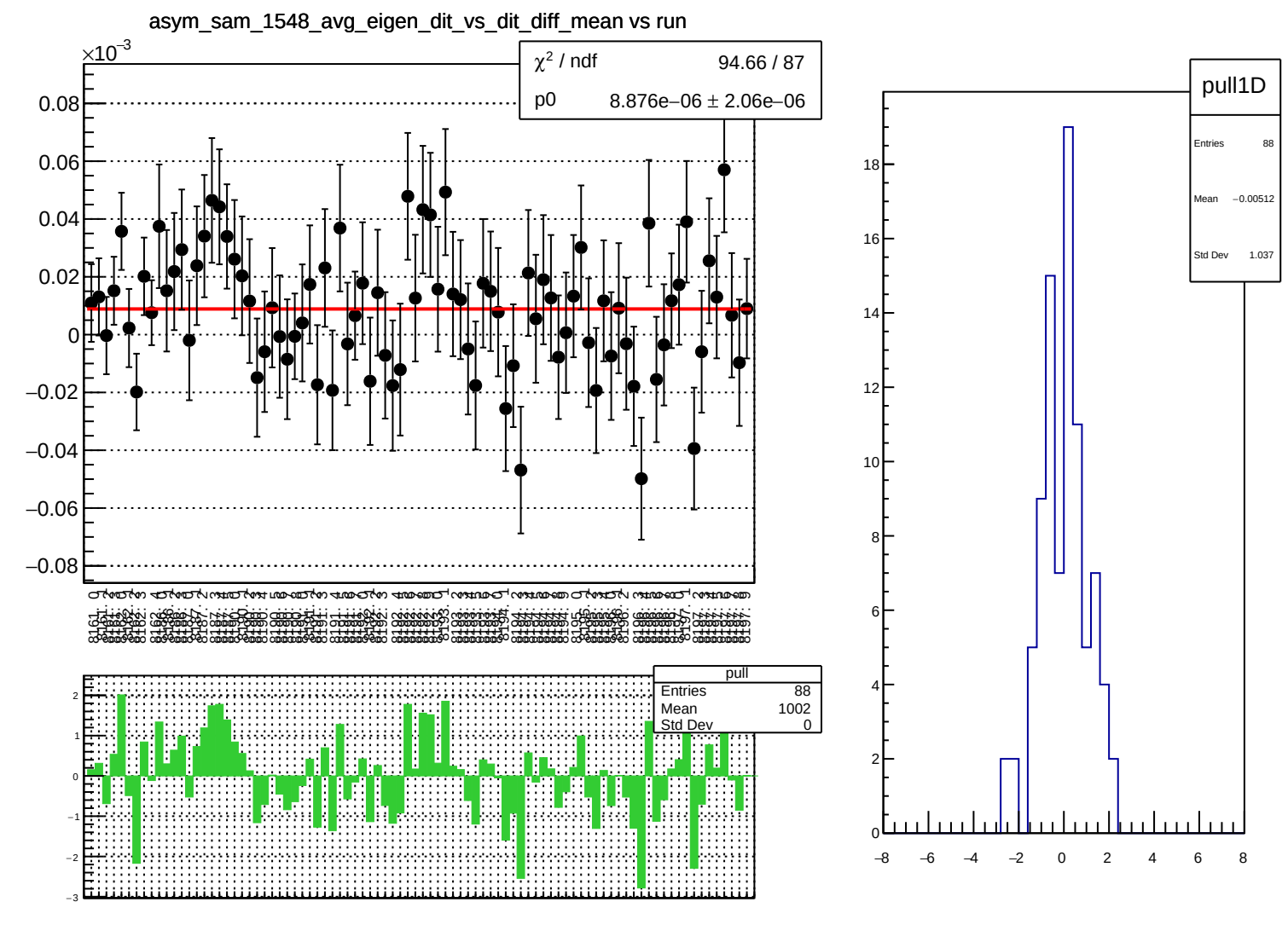

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.993e+05 / 87
p0 7.661e−11 ± 8.745e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

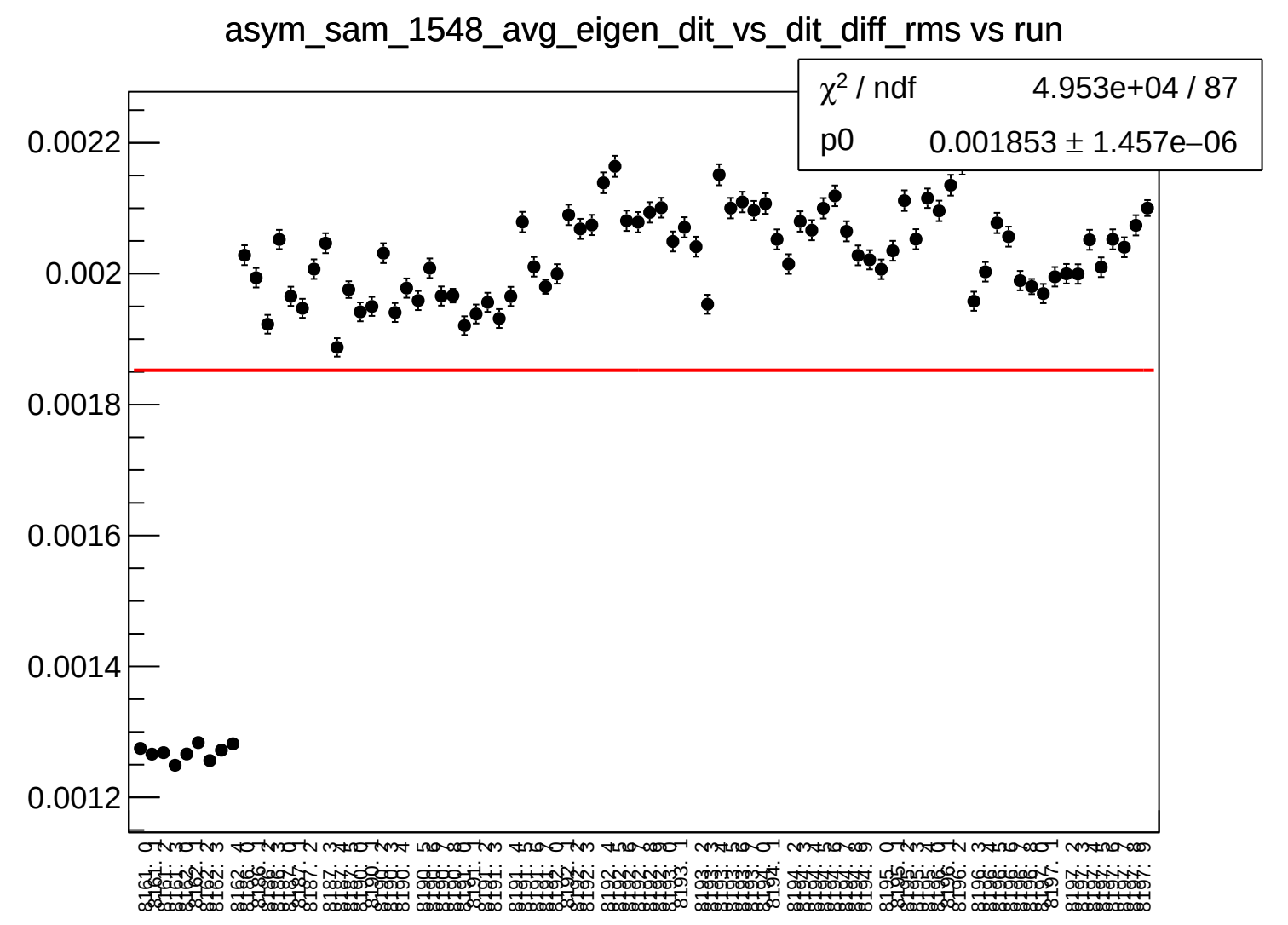

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.79 / 87
p0 −0.3725 ± 0.06911
pull
Entries 88
Mean −624.3
Std Dev 0
pull1D
Entries 88
Mean −0.01088
Std Dev 1.021

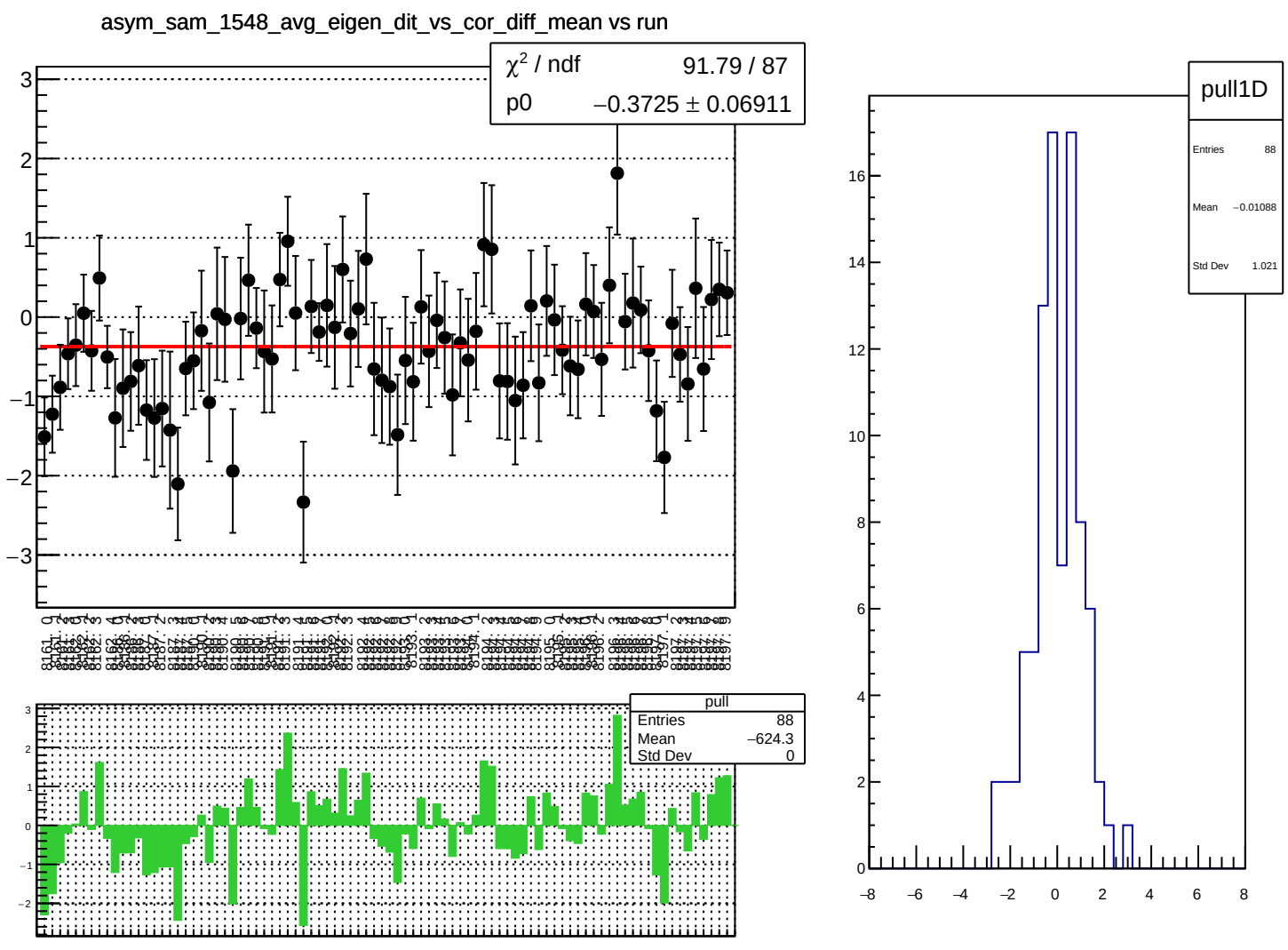

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 87
p0 62.24 ± 0.04887
90
80
70
60
50
40

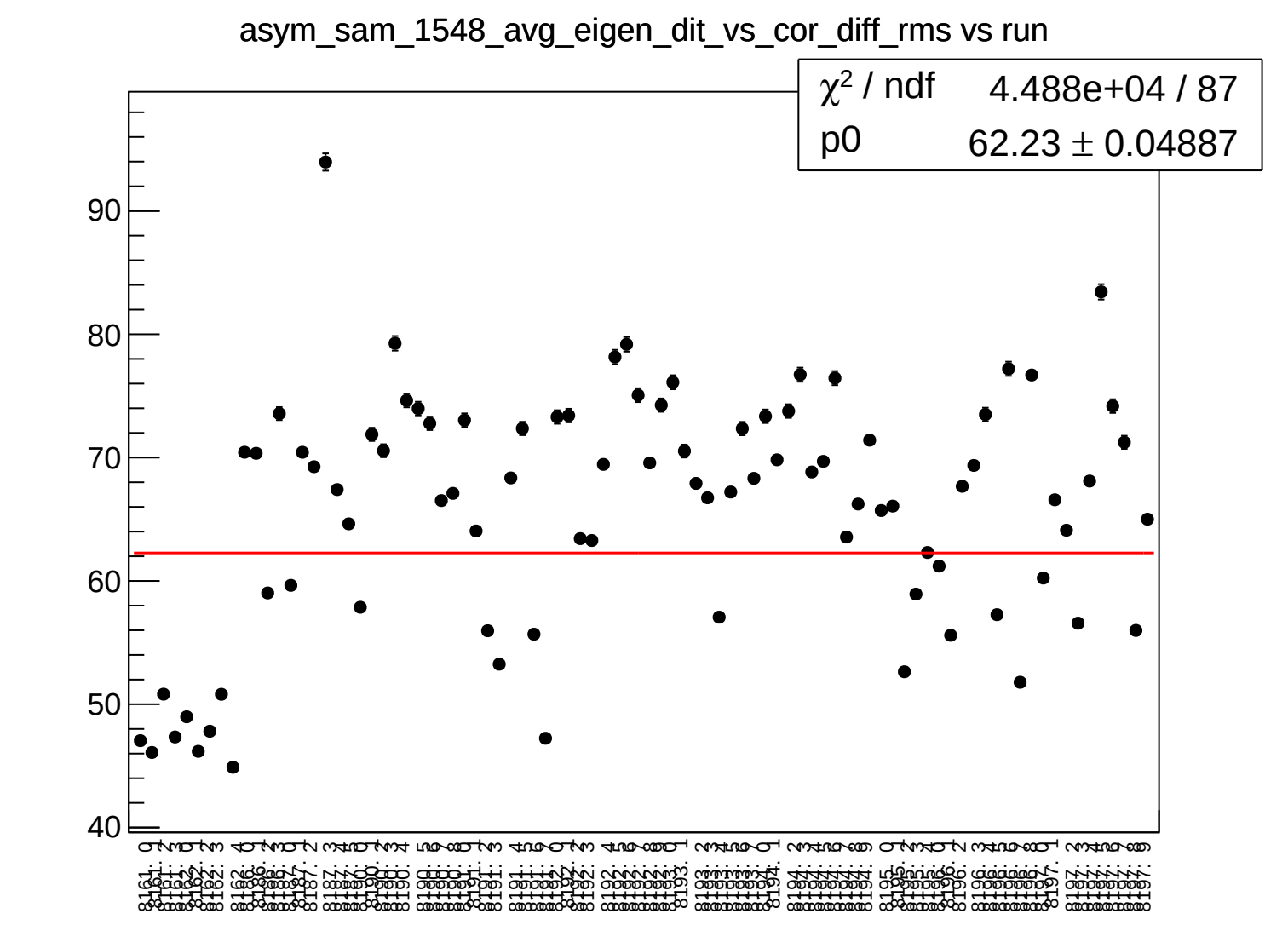

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.79 / 87
p0 −0.3725 ± 0.06911
pull
Entries 88
Mean −624.3
Std Dev 0
pull1D
Entries 88
Mean −0.01088
Std Dev 1.021

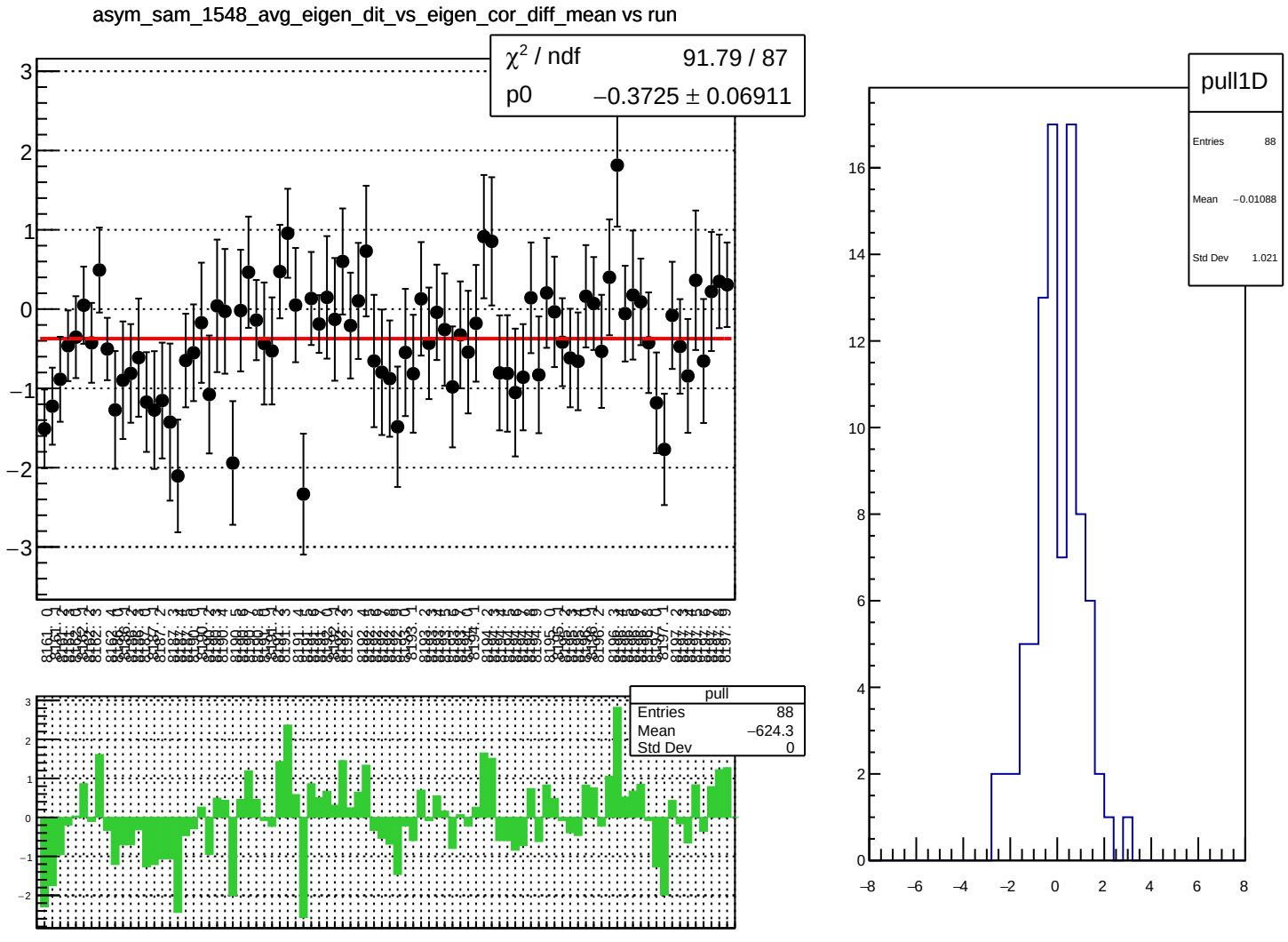

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 87
p0 62.24 ± 0.04887
90
80
70
60
50
40

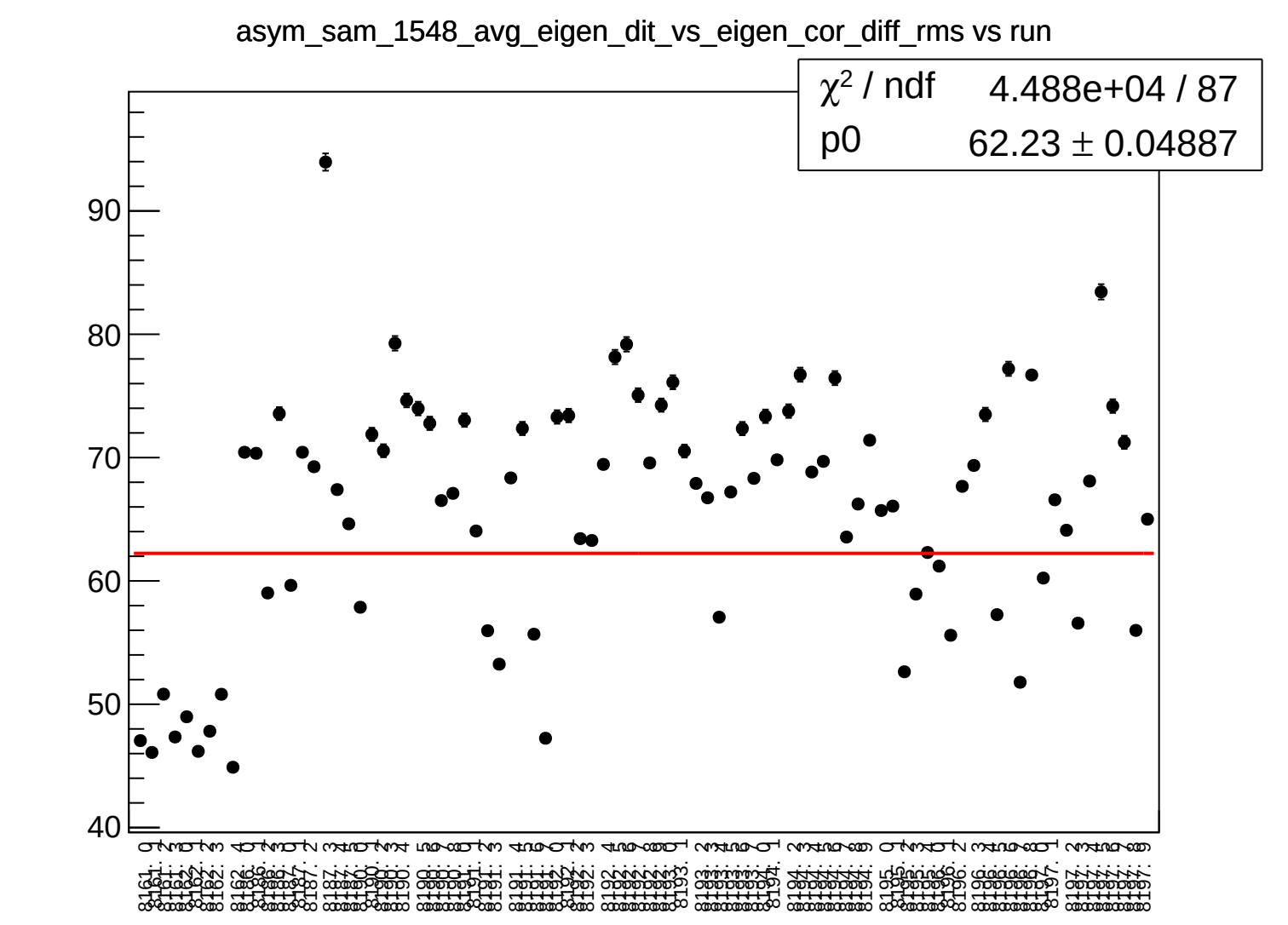

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.66 / 87
p0 8.876e−06 ± 2.06e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean 1002
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.00512
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

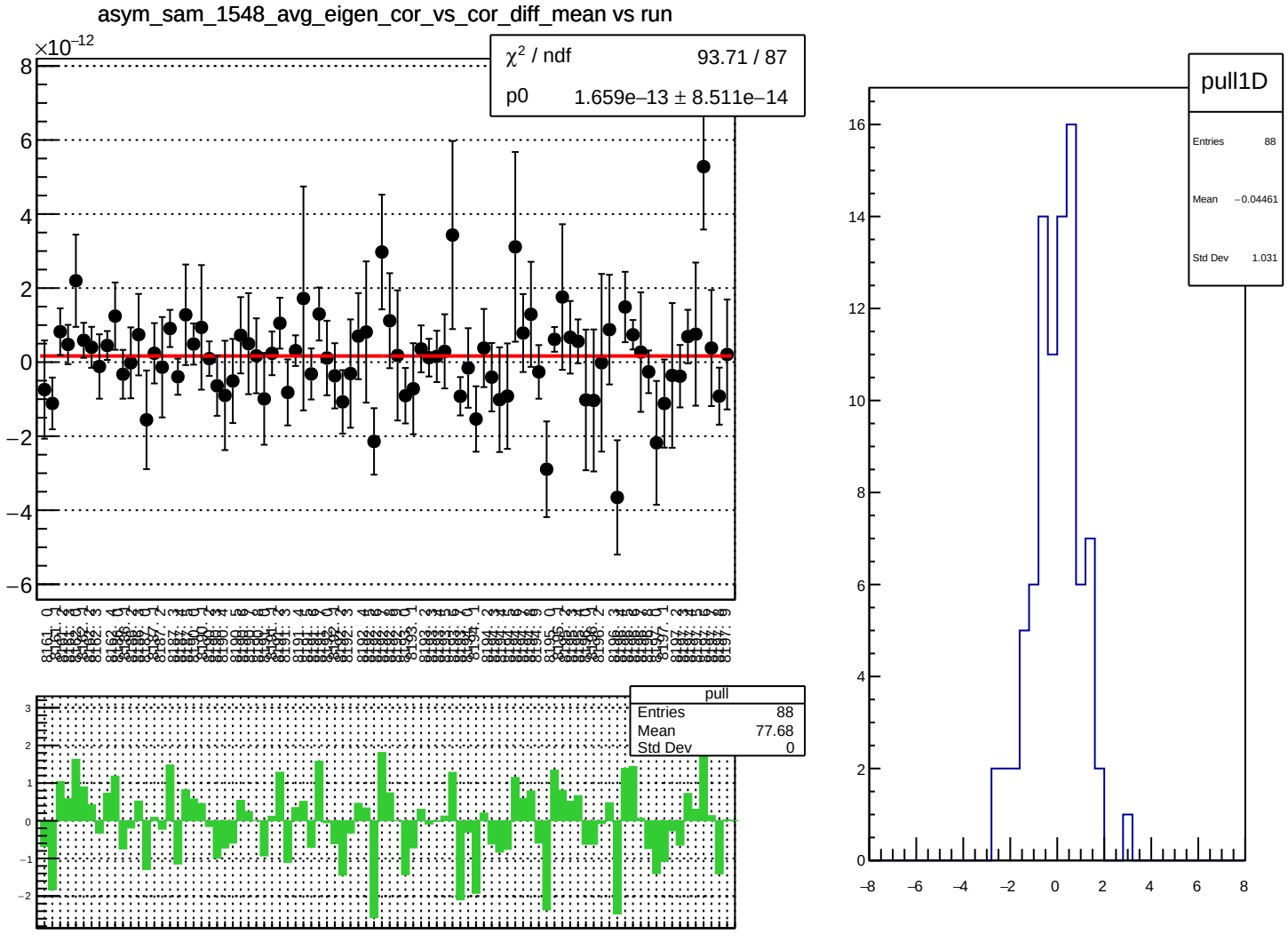

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.953e+04 / 87
p0 0.001853 ± 1.457e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

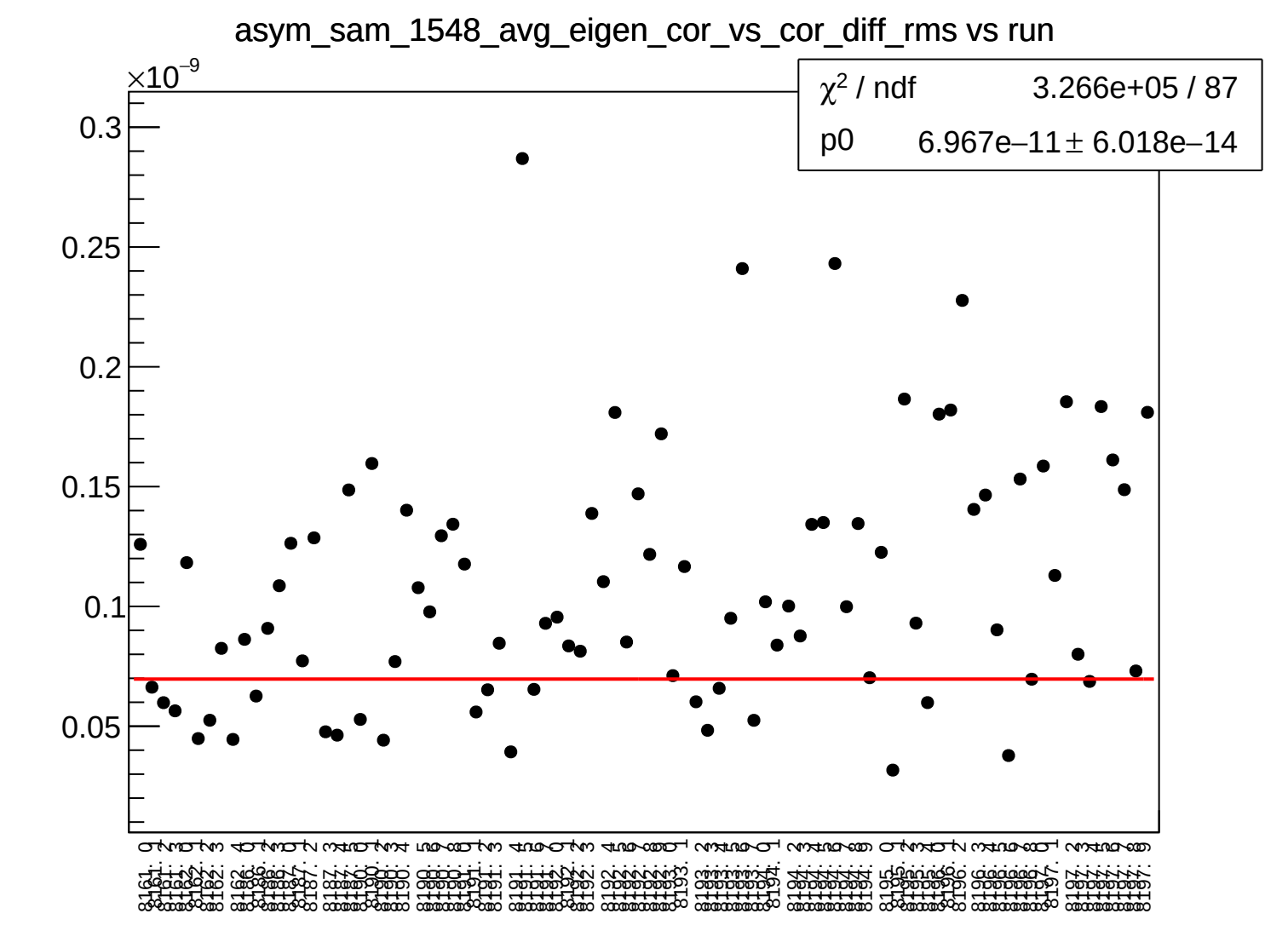

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.79 / 87
p0 −0.3725 ± 0.06911
pull
Entries 88
Mean −624.3
Std Dev 0
pull1D
Entries 88
Mean −0.01088
Std Dev 1.021

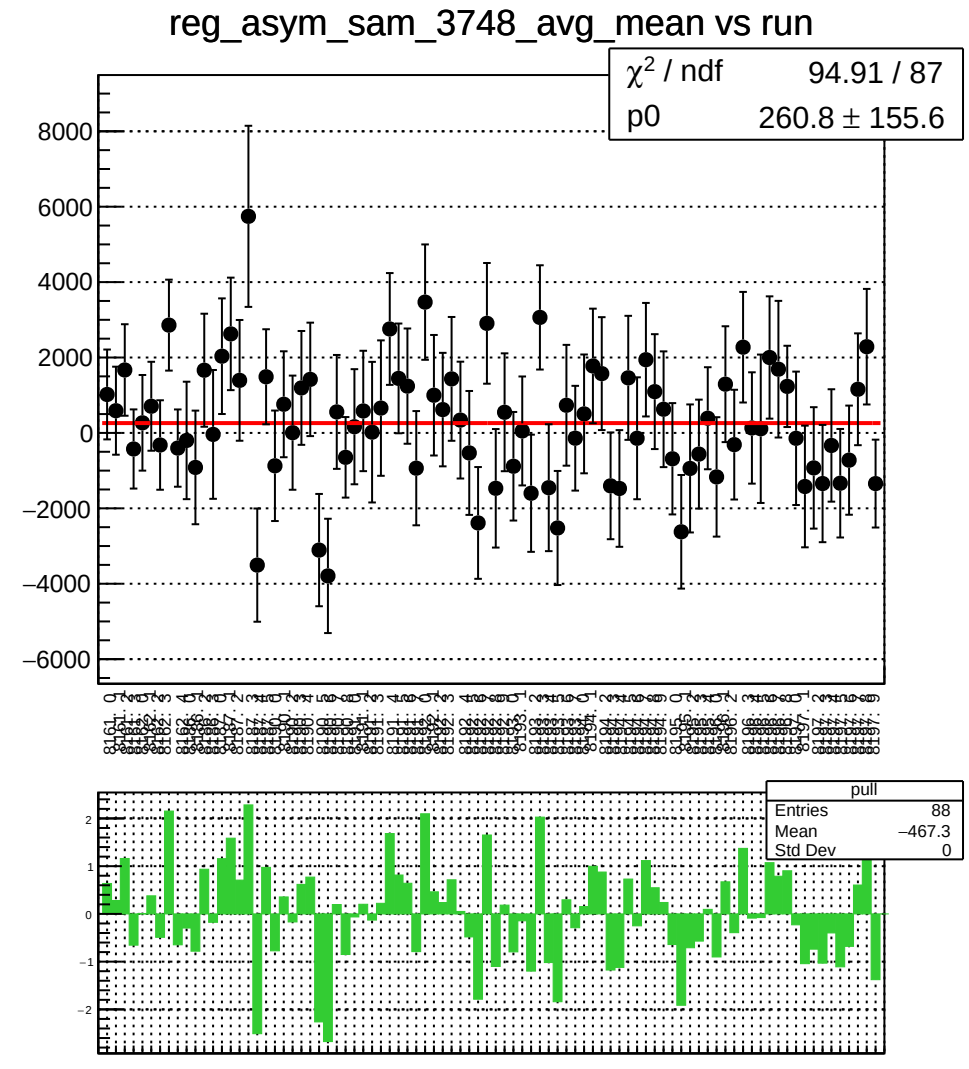

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.488e+04 / 87
p0 62.23 ± 0.04887
90
80
70
60
50
40

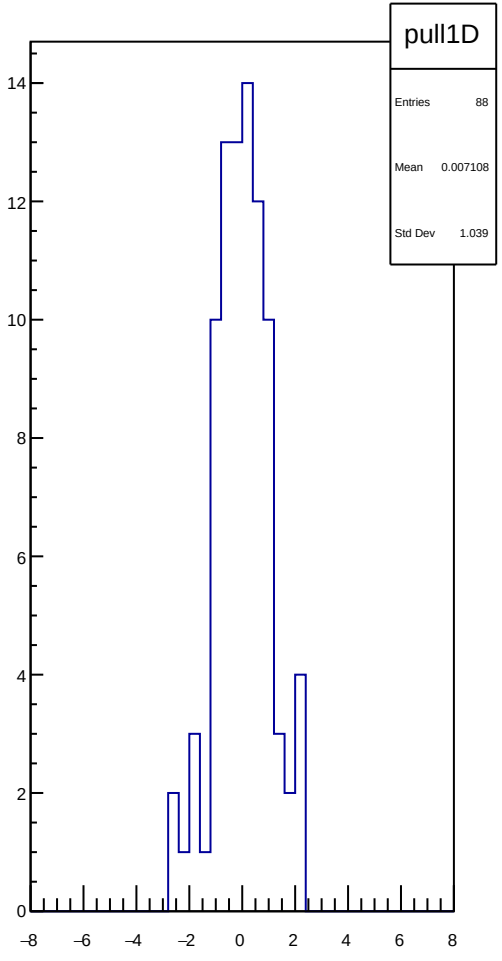

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.79 / 87
p0 −0.3725 ± 0.06911
pull
Entries 88
Mean −624.3
Std Dev 0
pull1D
Entries 88
Mean −0.01088
Std Dev 1.021

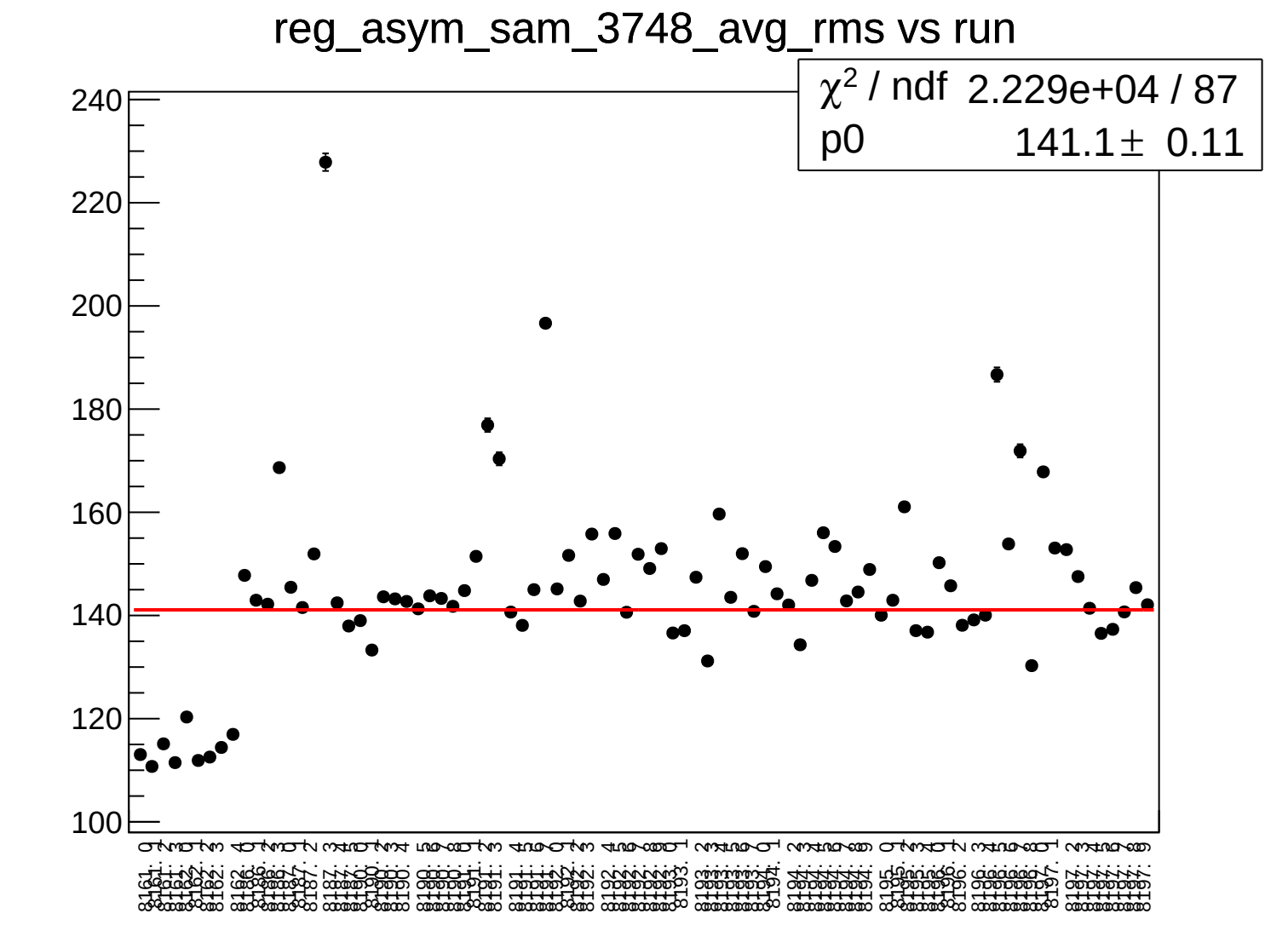

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.488e+04 / 87
p0 62.23 ± 0.04887
90
80
70
60
50
40

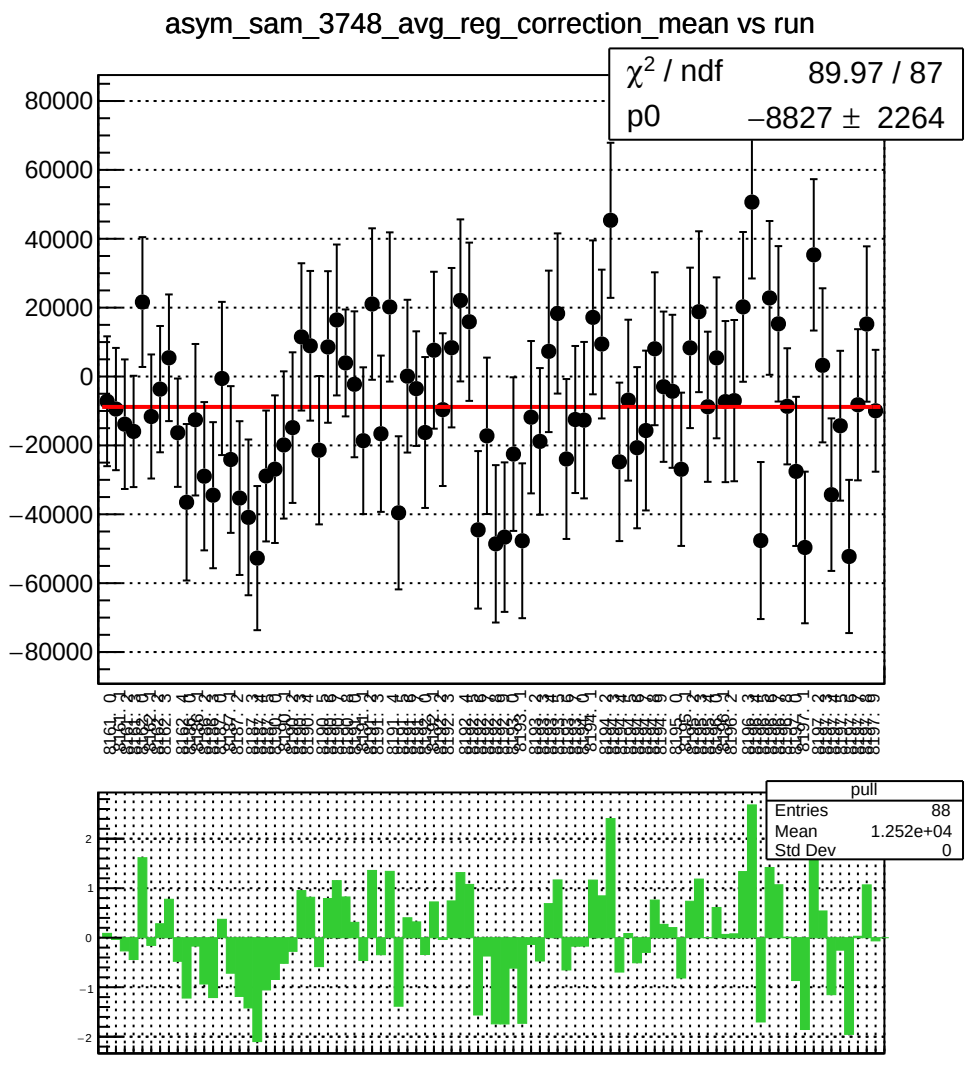

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 93.71 / 87
p0 1.659e−13 ± 8.511e−14
pull
Entries 88
Mean 77.68
Std Dev 0
pull1D
Entries 88
Mean −0.04461
Std Dev 1.031

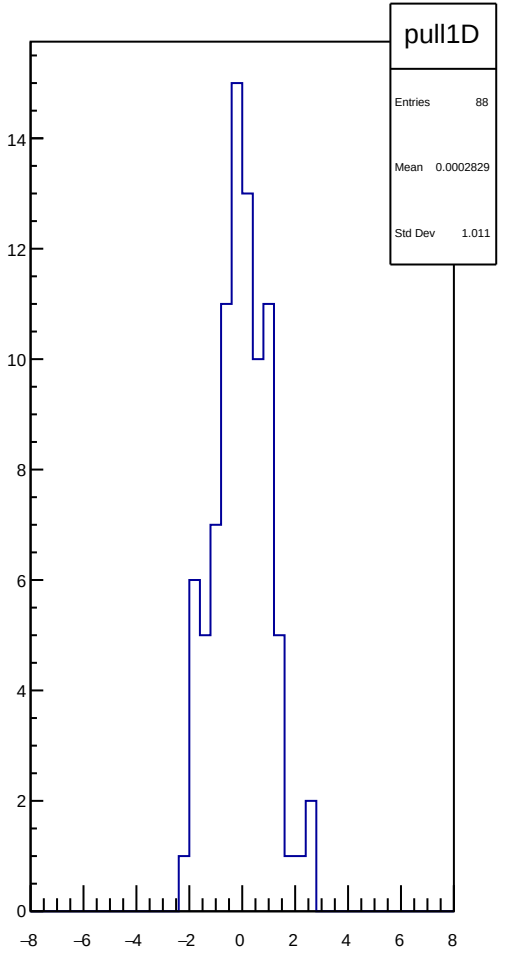

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.266e+05 / 87
p0 6.967e−11 ± 6.018e−14
0.3
0.25
0.2
0.15
0.1
0.05

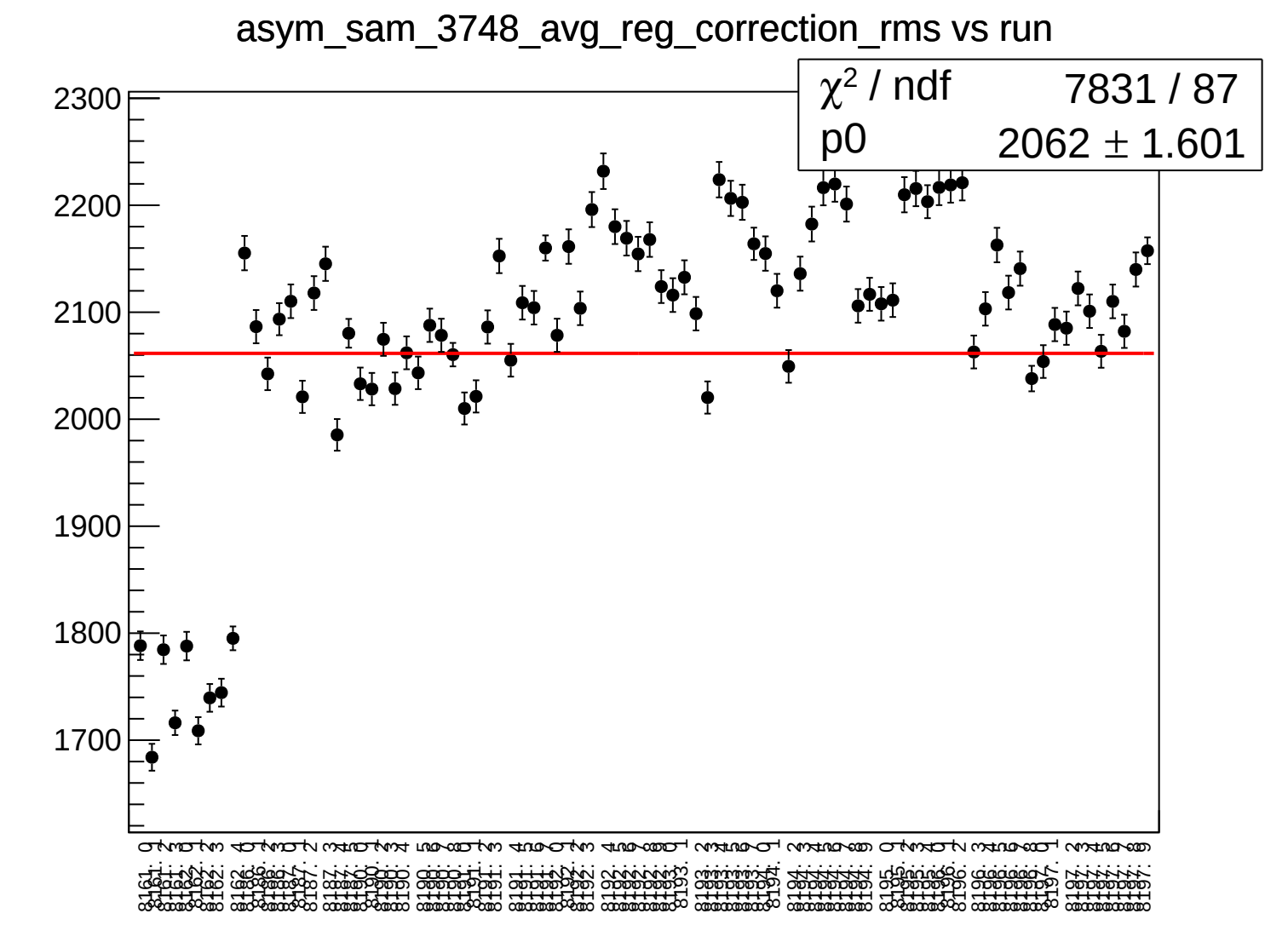

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 94.91 / 87
p0 260.8 ± 155.6
pull
Entries 88
Mean −467.3
Std Dev 0

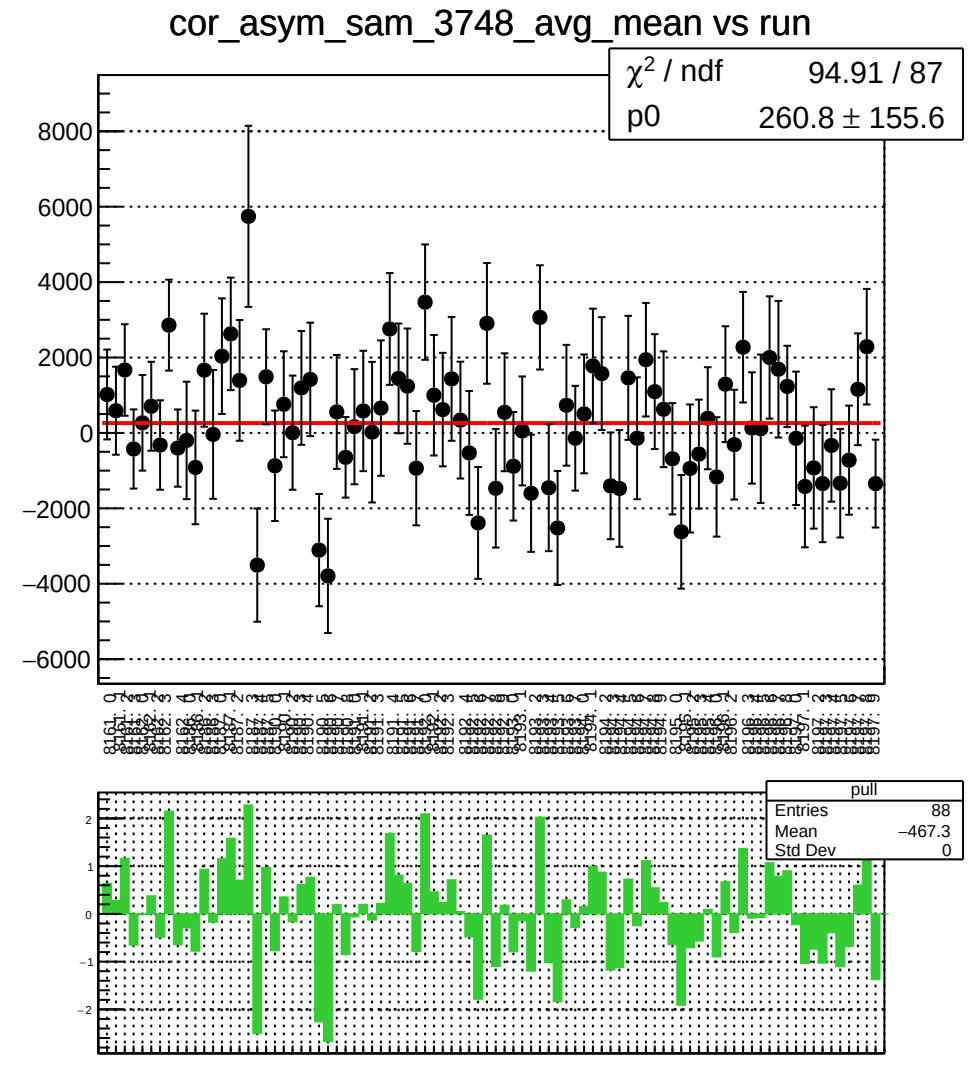

pull1D
Entries 88
Mean 0.007108
Std Dev 1.039

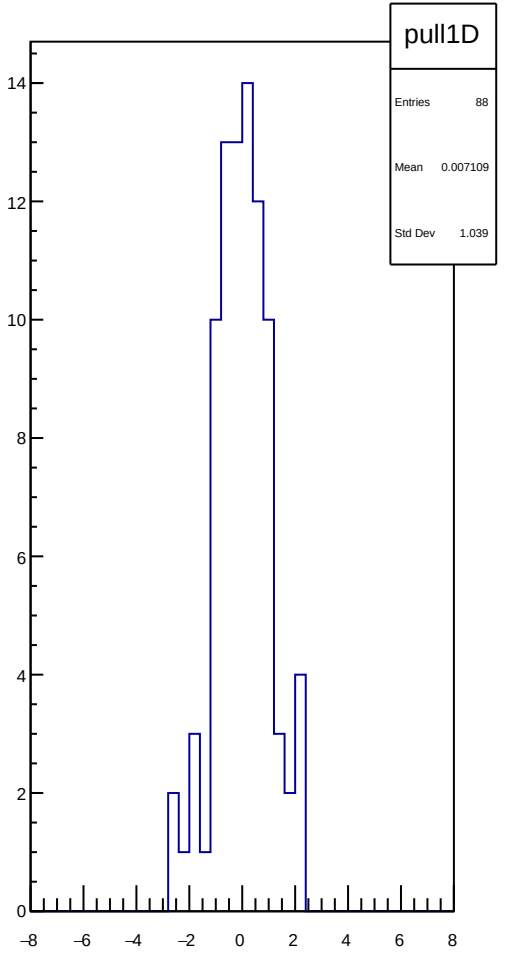

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2.229e+04 / 87
p0 141.1 ± 0.11
240
220
200
180
160
140
120
100

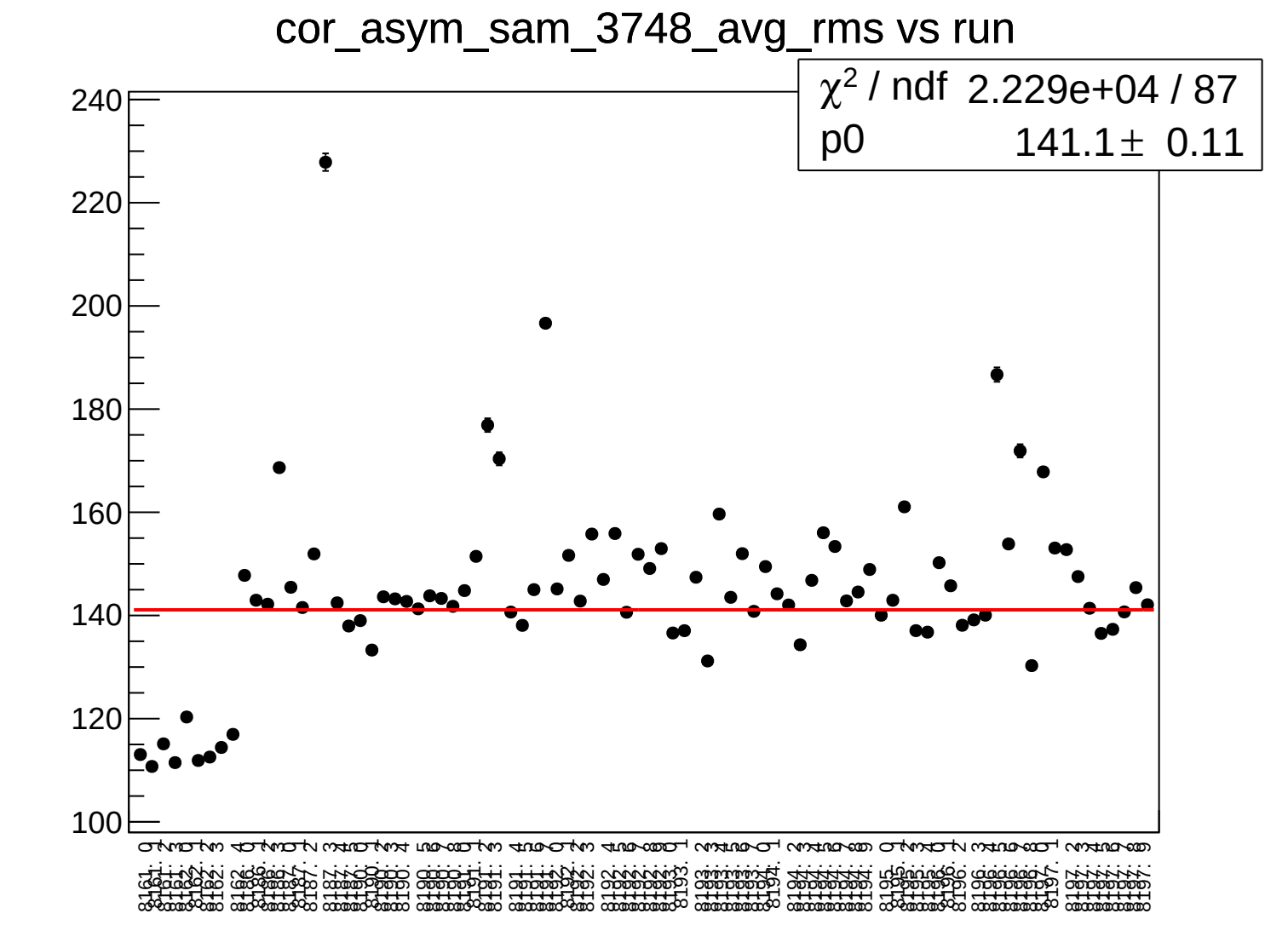

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 89.97 / 87
p0 −8827 ± 2264
pull
Entries 88
Mean 1.252e+04
Std Dev 0

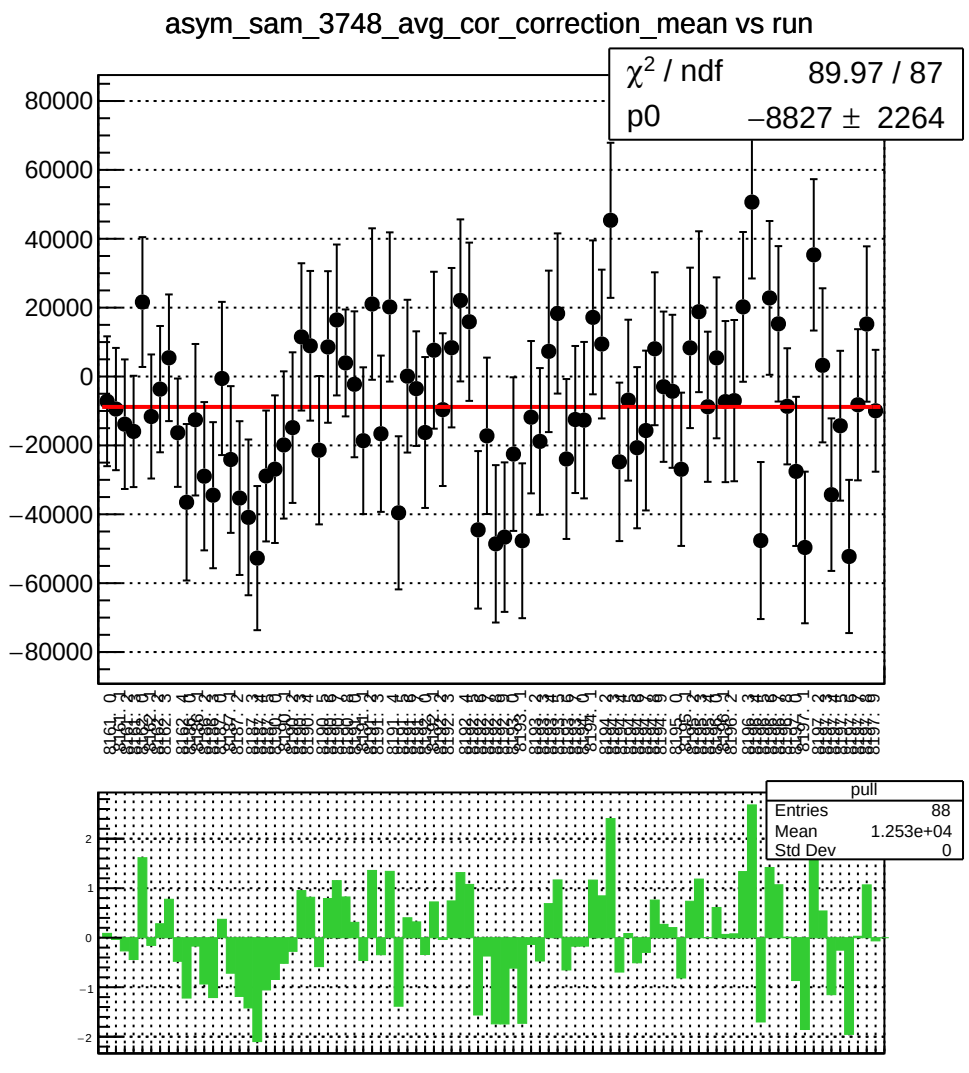

pull1D
Entries 88
Mean 0.0002829
Std Dev 1.011

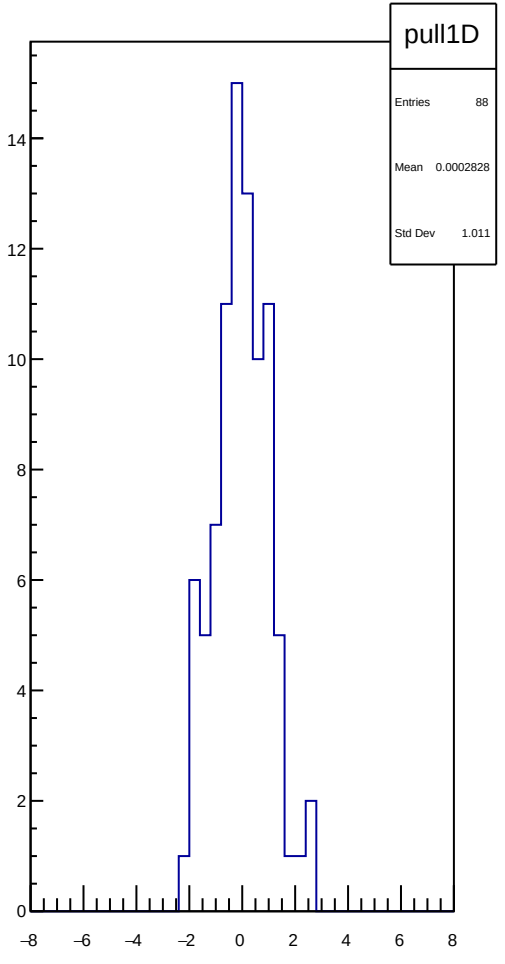

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 7831 / 87
p0 2062 ± 1.601
2300
2200
2100
2000
1900
1800
1700

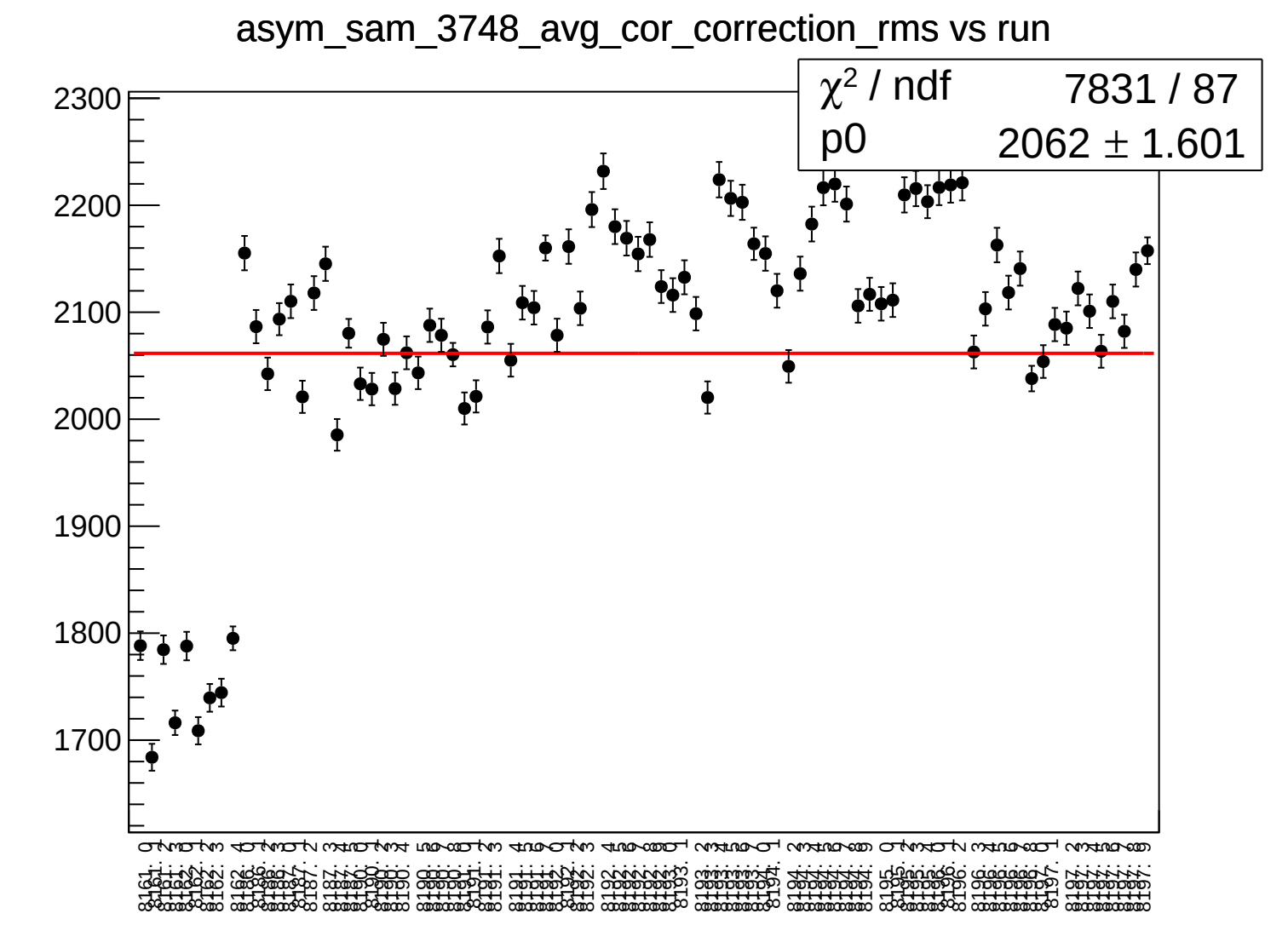

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 94.91 / 87
p0 260.8 ± 155.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −467.3
Std Dev 0
2
1
0
−1
−2

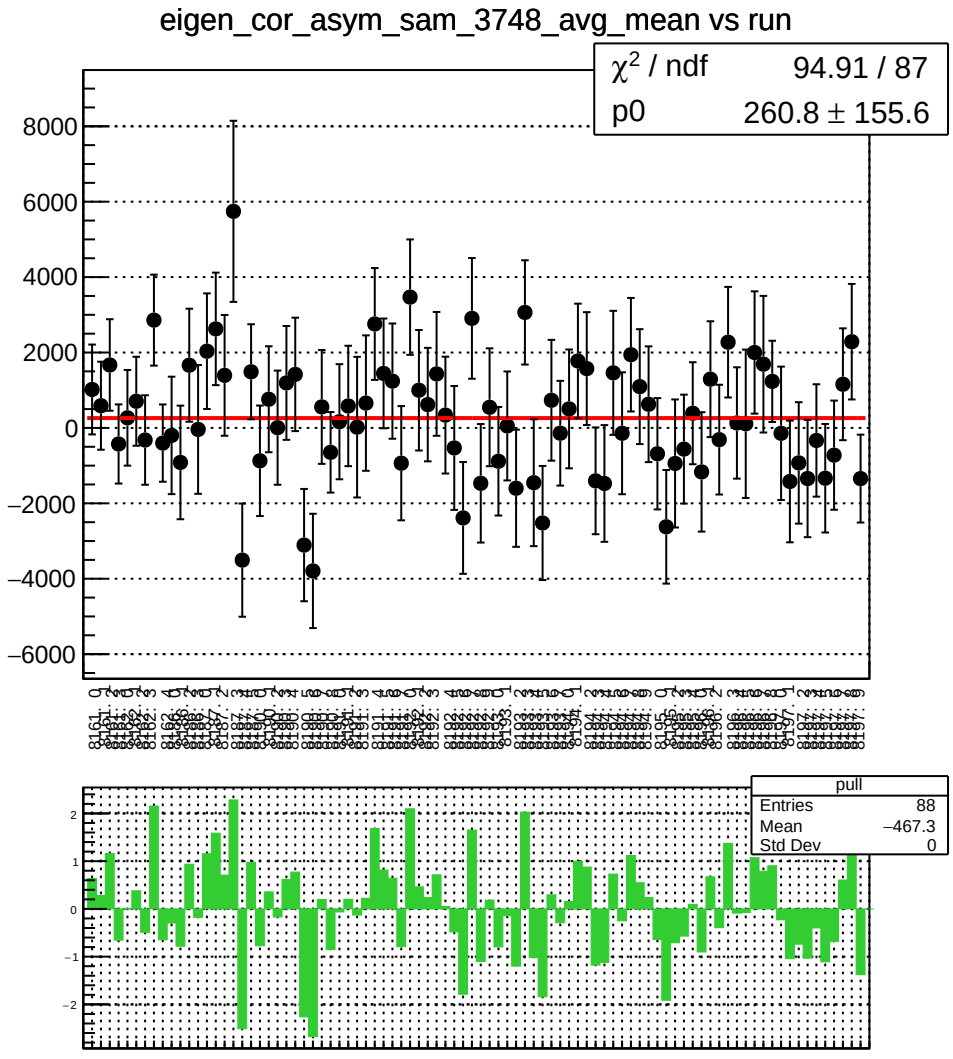

pull1D
Entries 88
Mean 0.007109
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

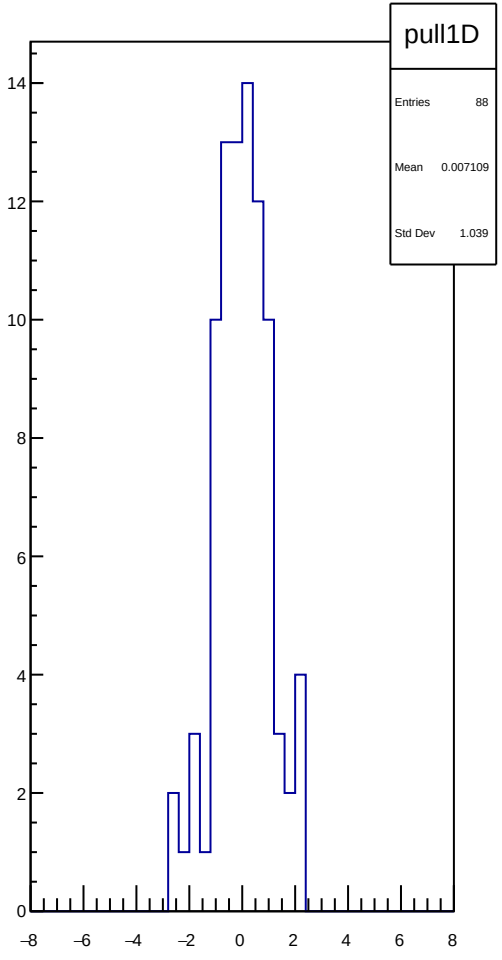

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.229e+04 / 87
p0 141.1 ± 0.11
240
220
200
180
160
140
120
100

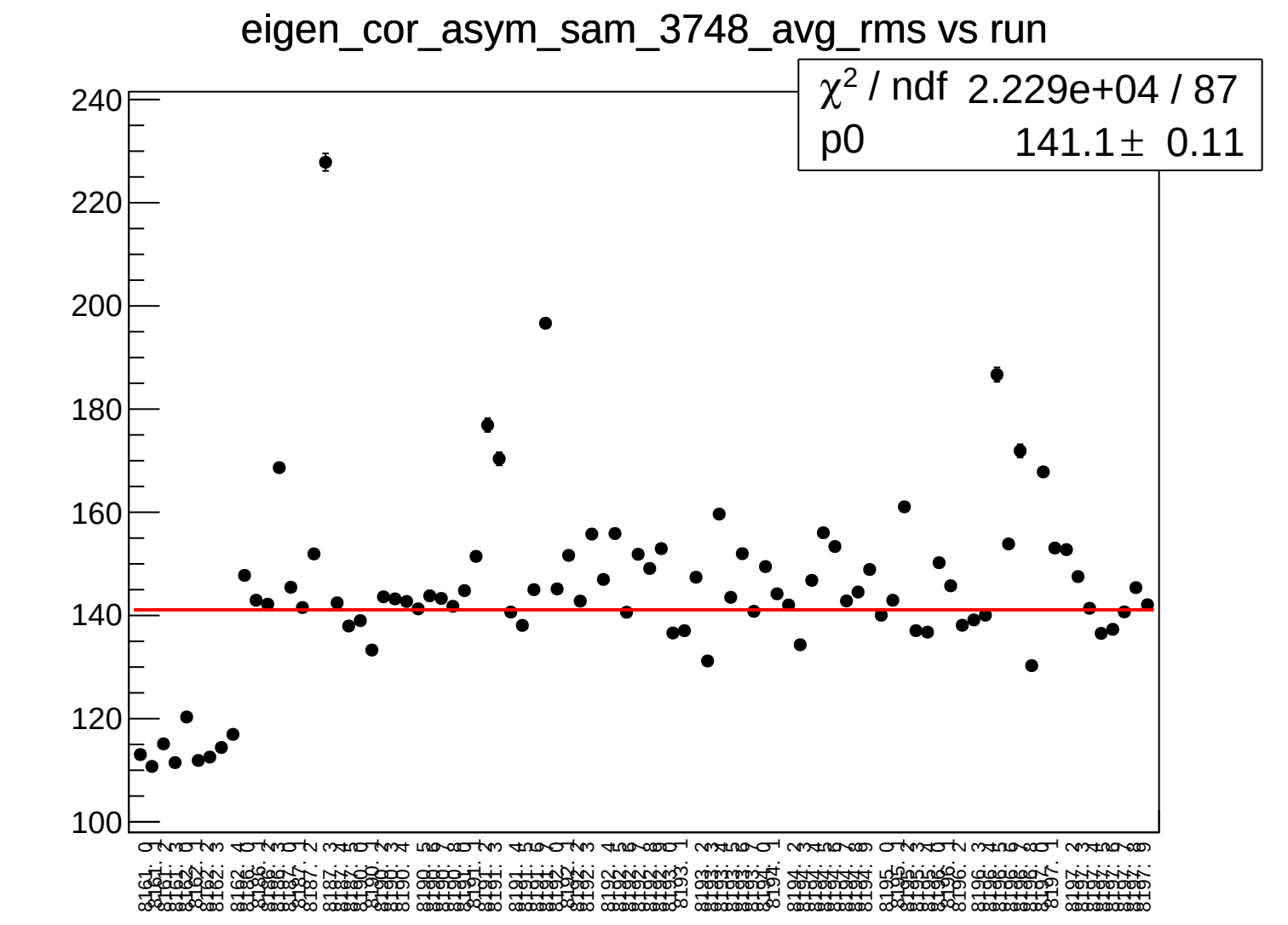

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 89.97 / 87
p0 −8827 ± 2264
pull
Entries 88
Mean 1.253e+04
Std Dev 0

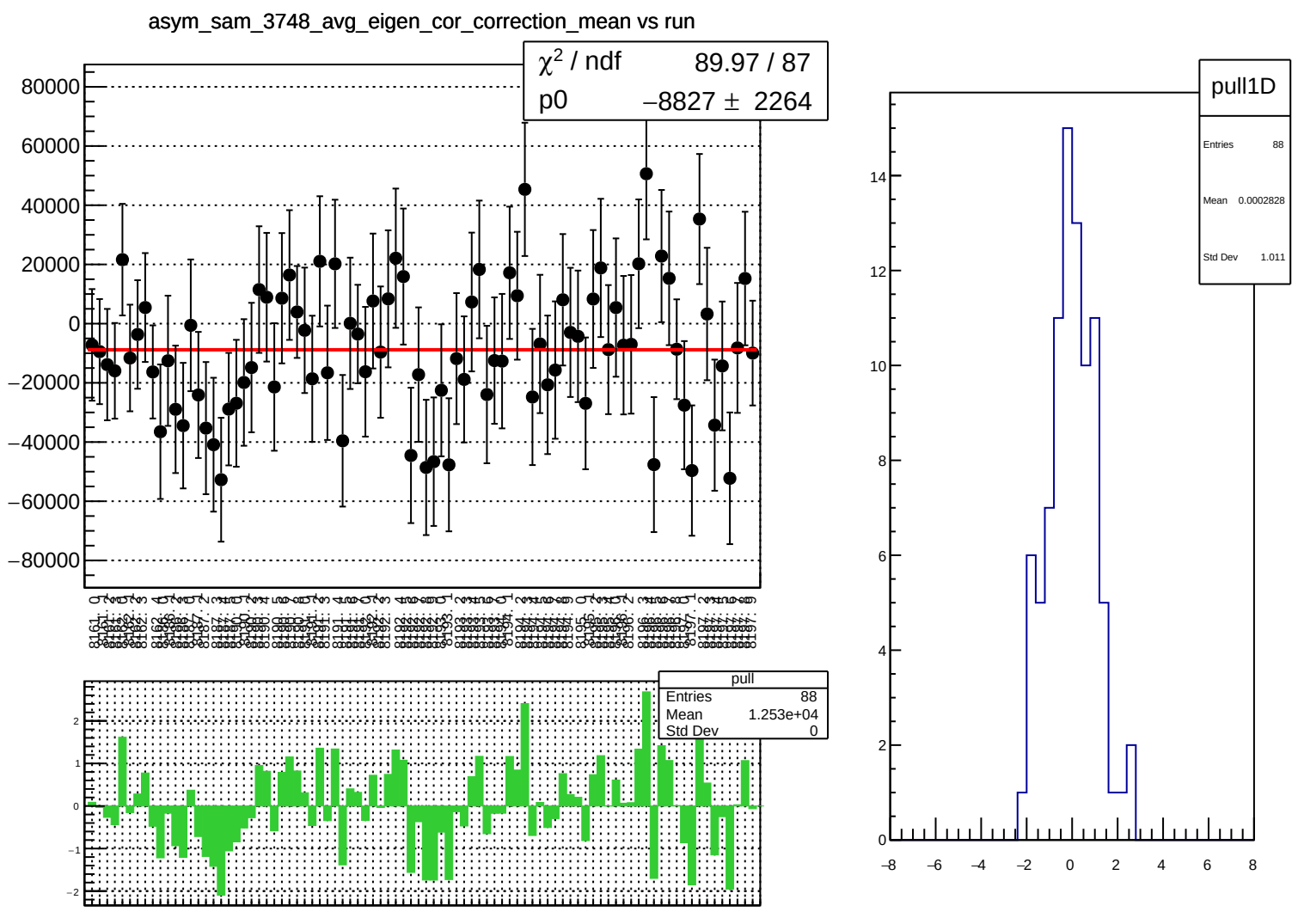

pull1D
Entries 88
Mean 0.0002828
Std Dev 1.011

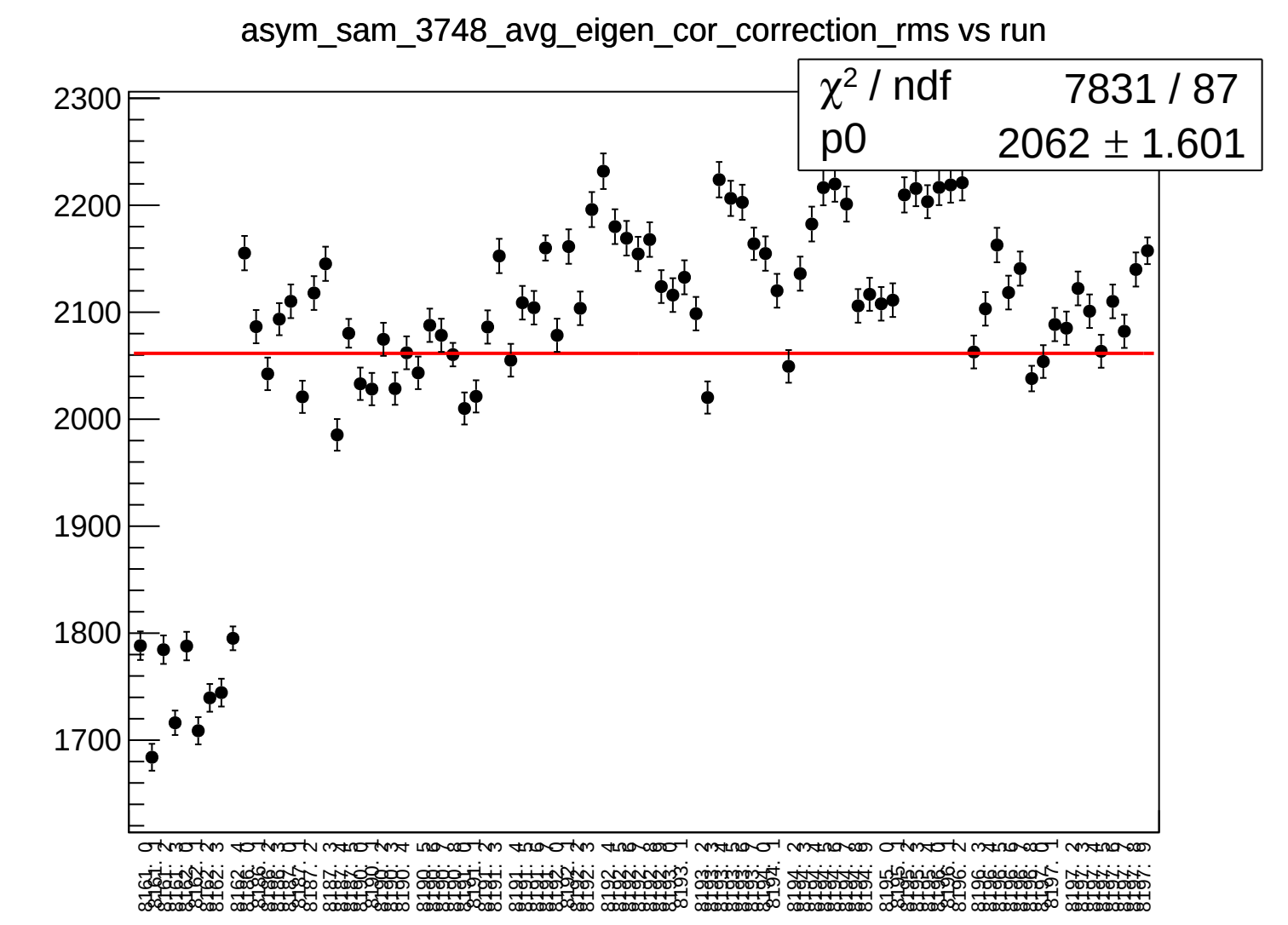

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 7831 / 87
p0 2062 ± 1.601
2300
2200
2100
2000
1900
1800
1700

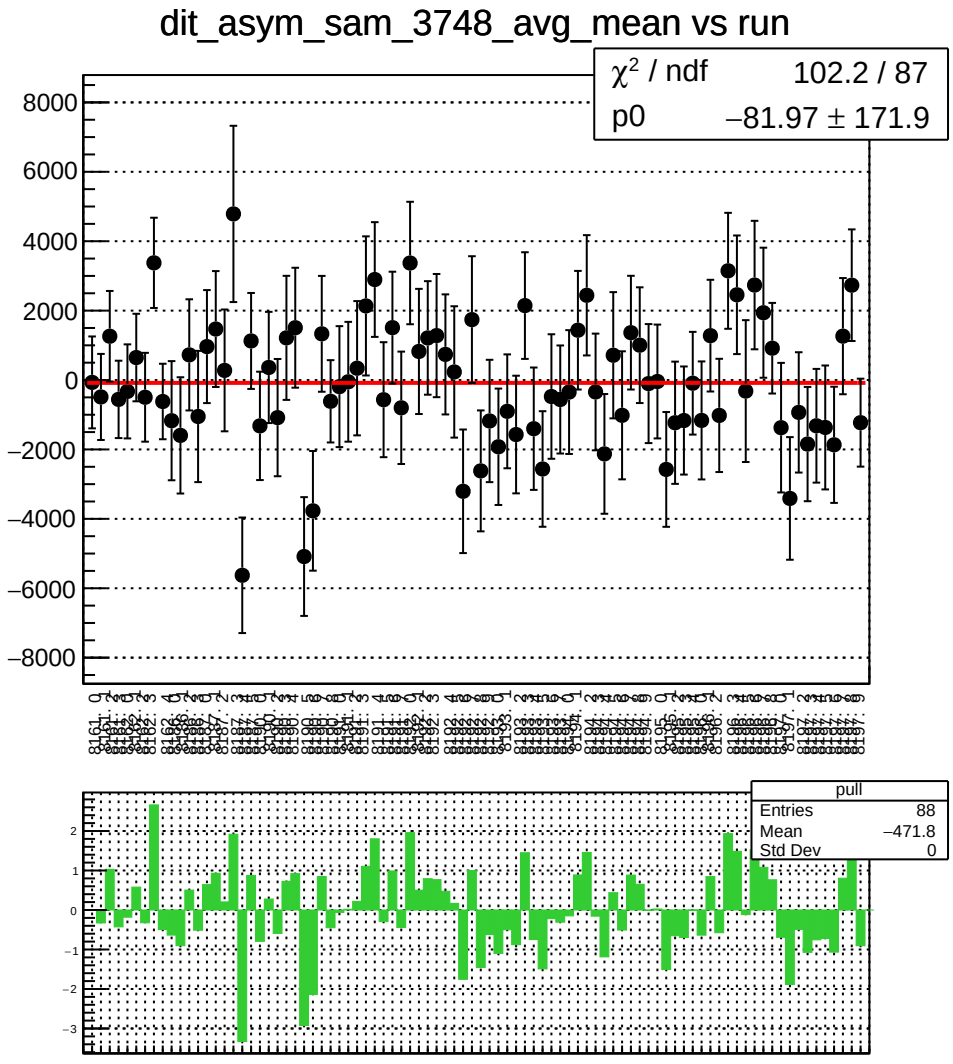

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 94.91 / 87
p0 260.8 ± 155.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −467.3
Std Dev 0
2
1
0
−1
−2

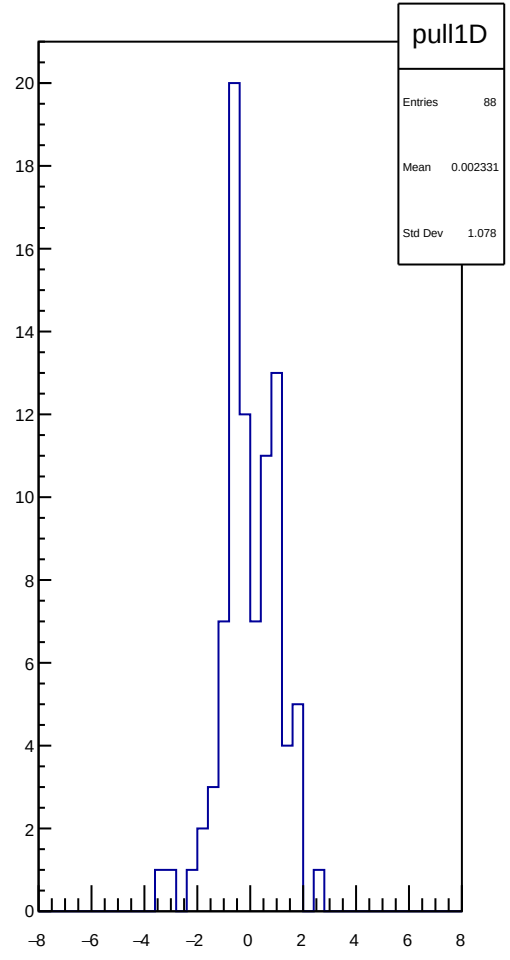

pull1D
Entries 88
Mean 0.007109
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

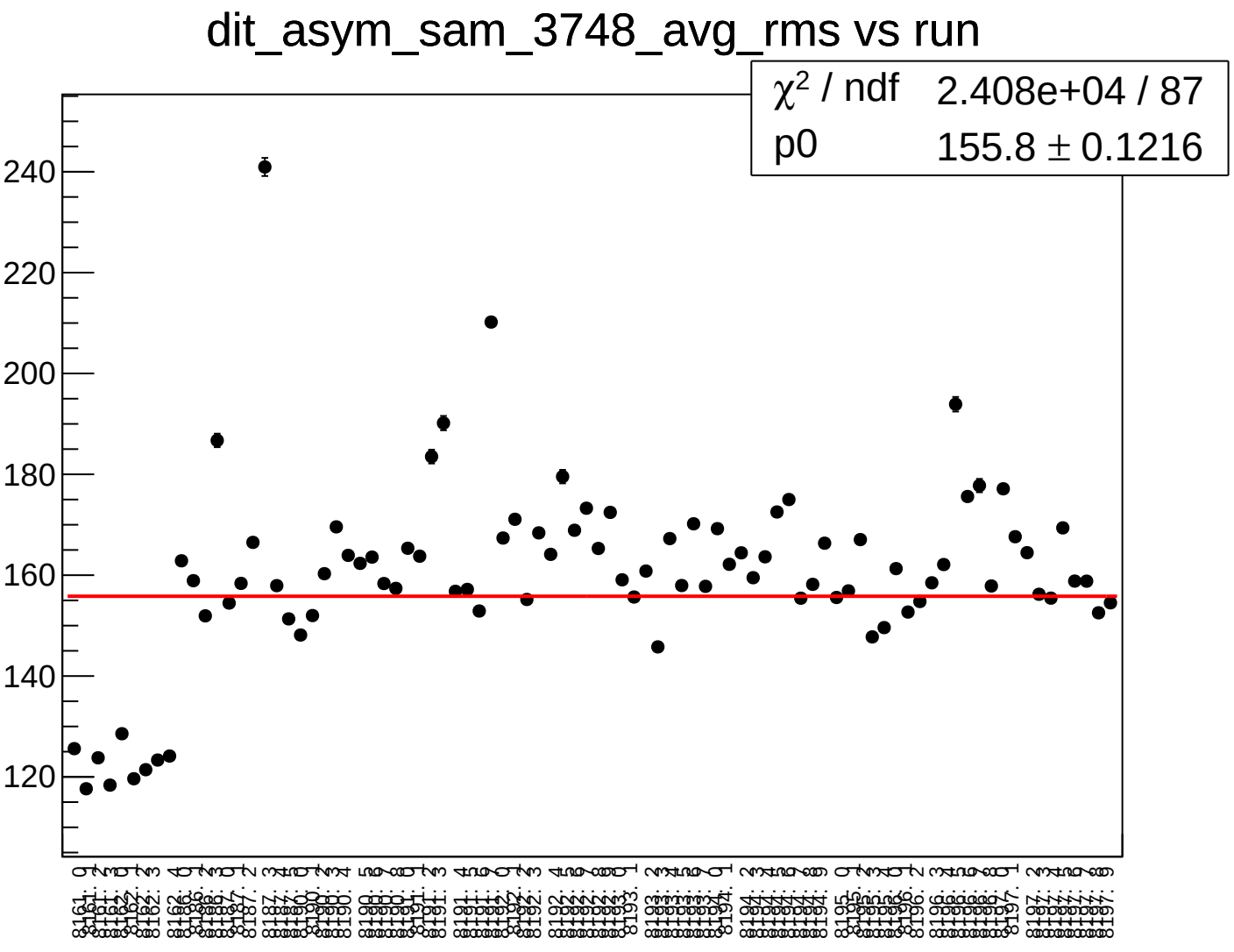

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.229e+04 / 87
p0 141.1 ± 0.11
240
220
200
180
160
140
120
100

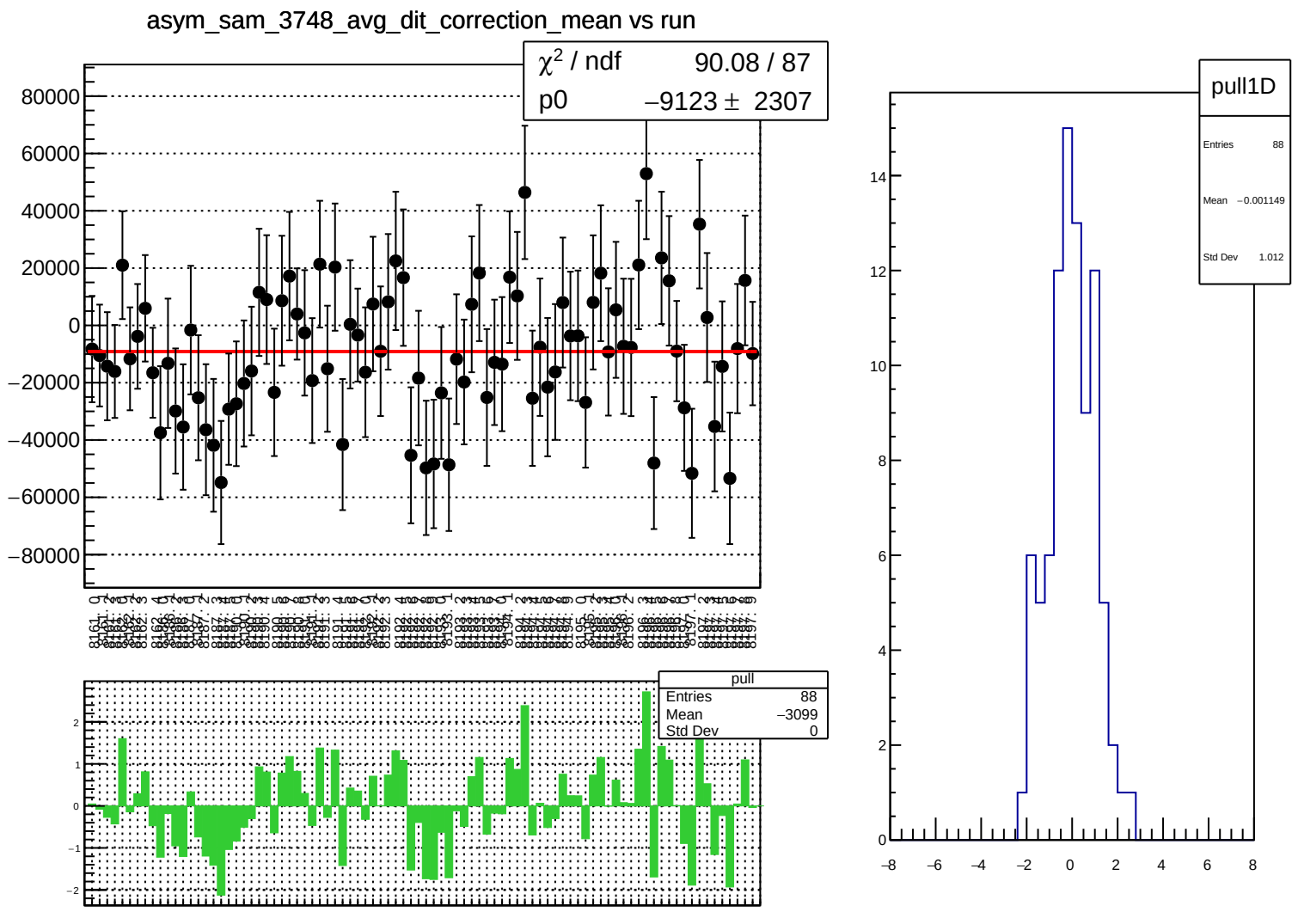

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.97 / 87
p0 −8827 ± 2264
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 1.253e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0002828
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

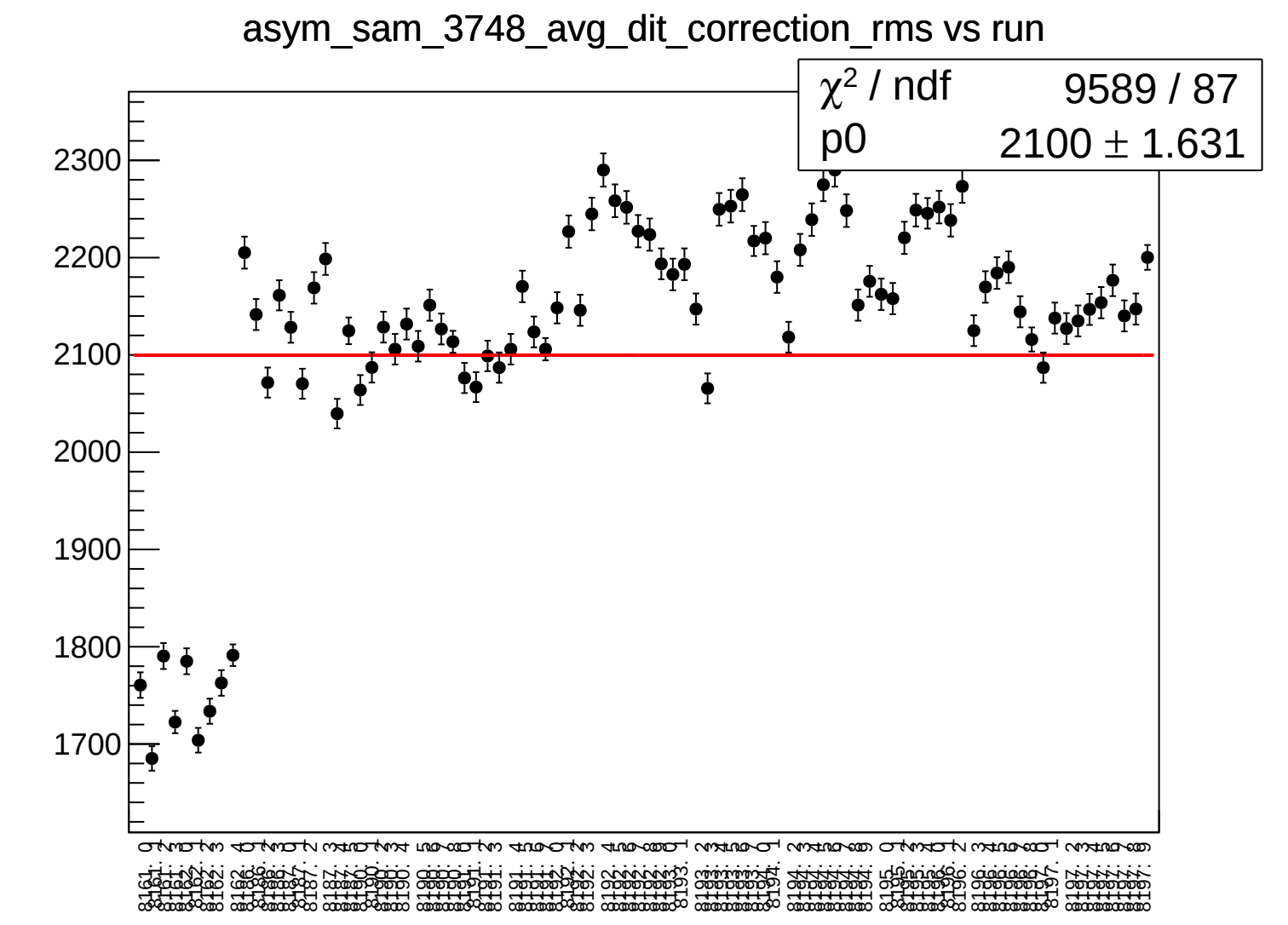

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 7831 / 87
p0 2062 ± 1.601
2300
2200
2100
2000
1900
1800
1700

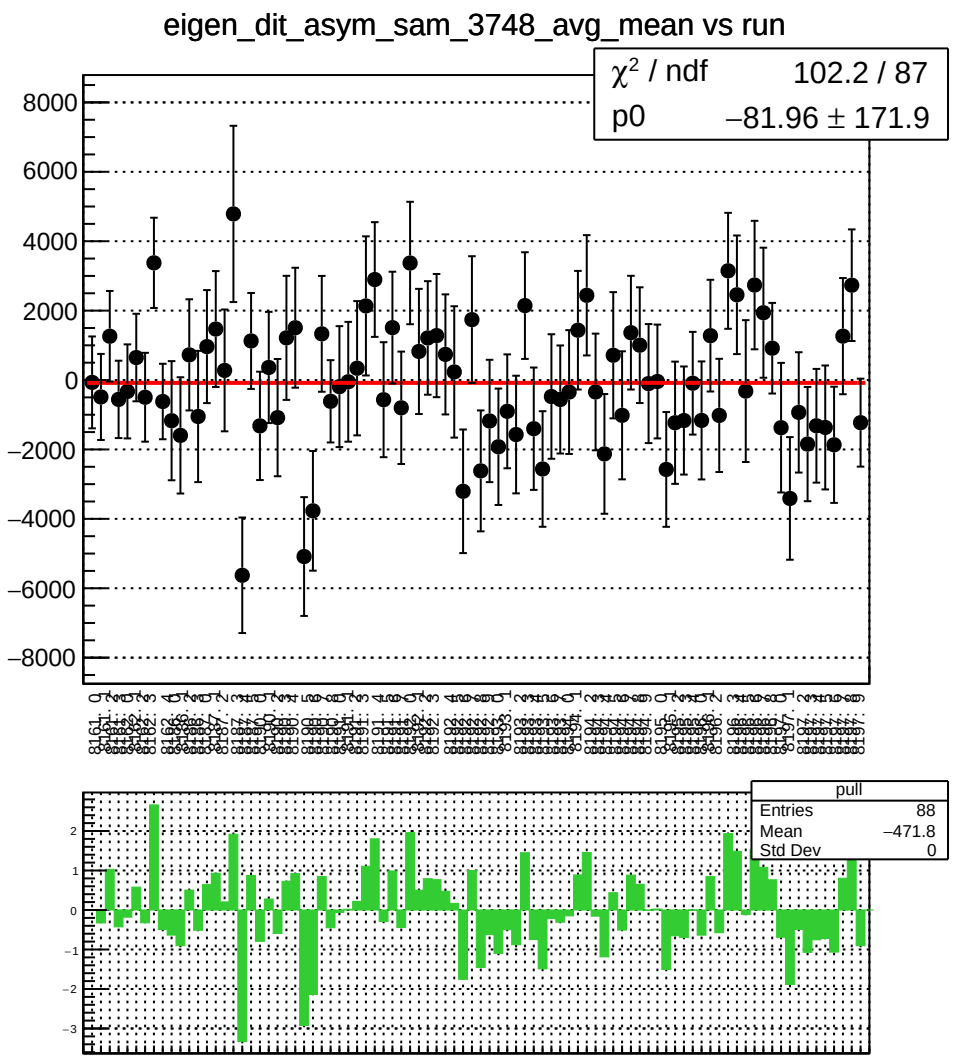

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 102.2 / 87
p0 −81.97 ± 171.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean −471.8
Std Dev 0
2
1
0
−1
−2
−3

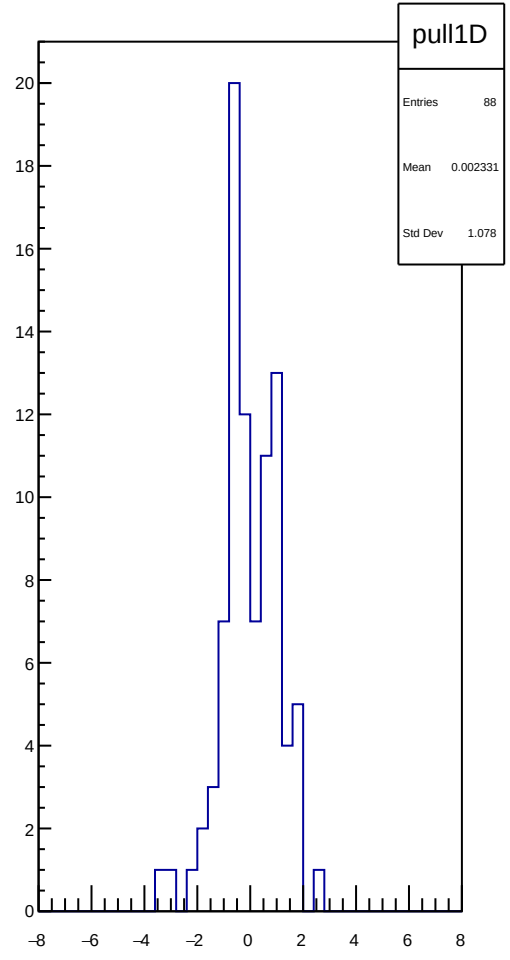

pull1D
Entries 88
Mean 0.002331
Std Dev 1.078
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

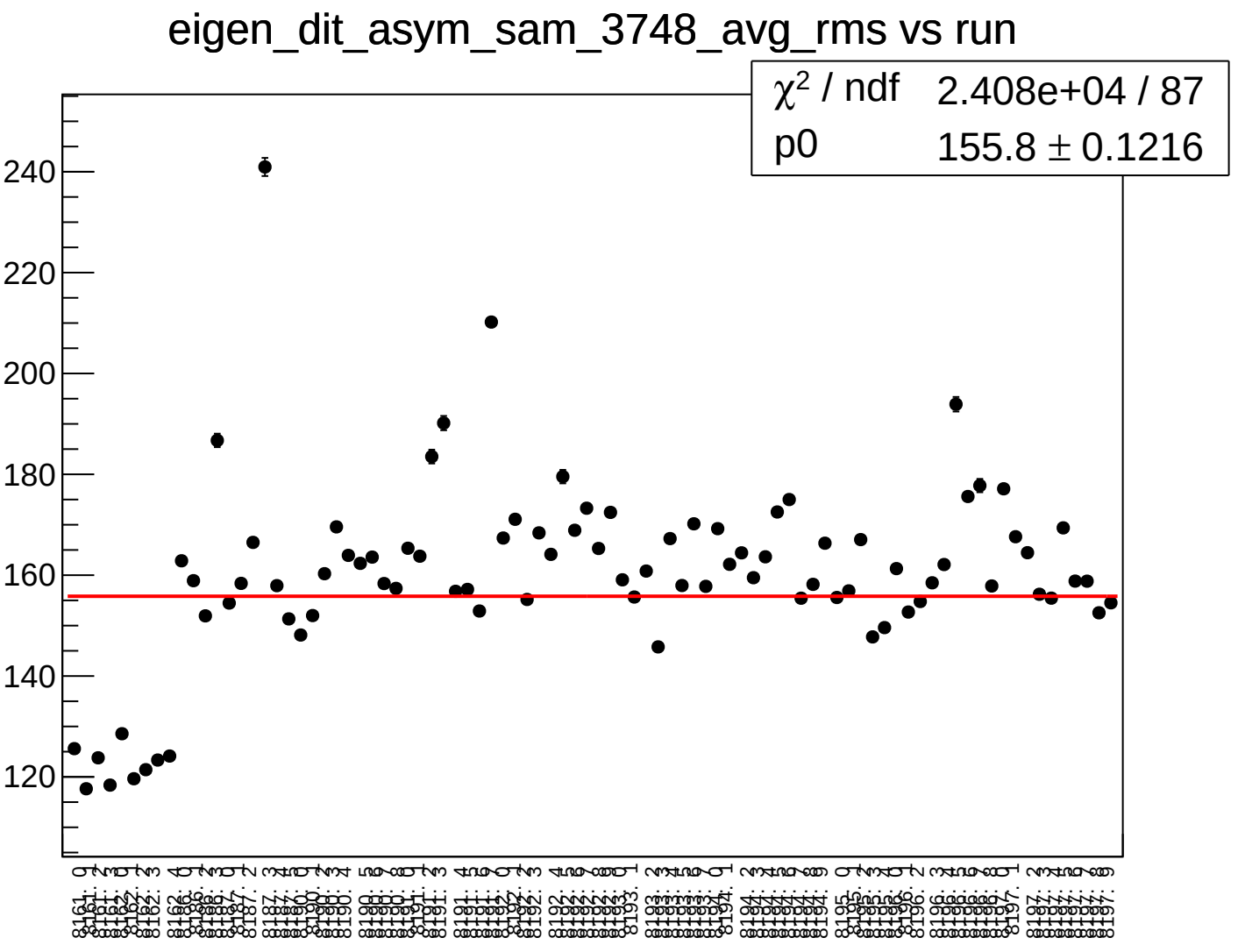

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.408e+04 / 87
p0 155.8 ± 0.1216
240
220
200
180
160
140
120

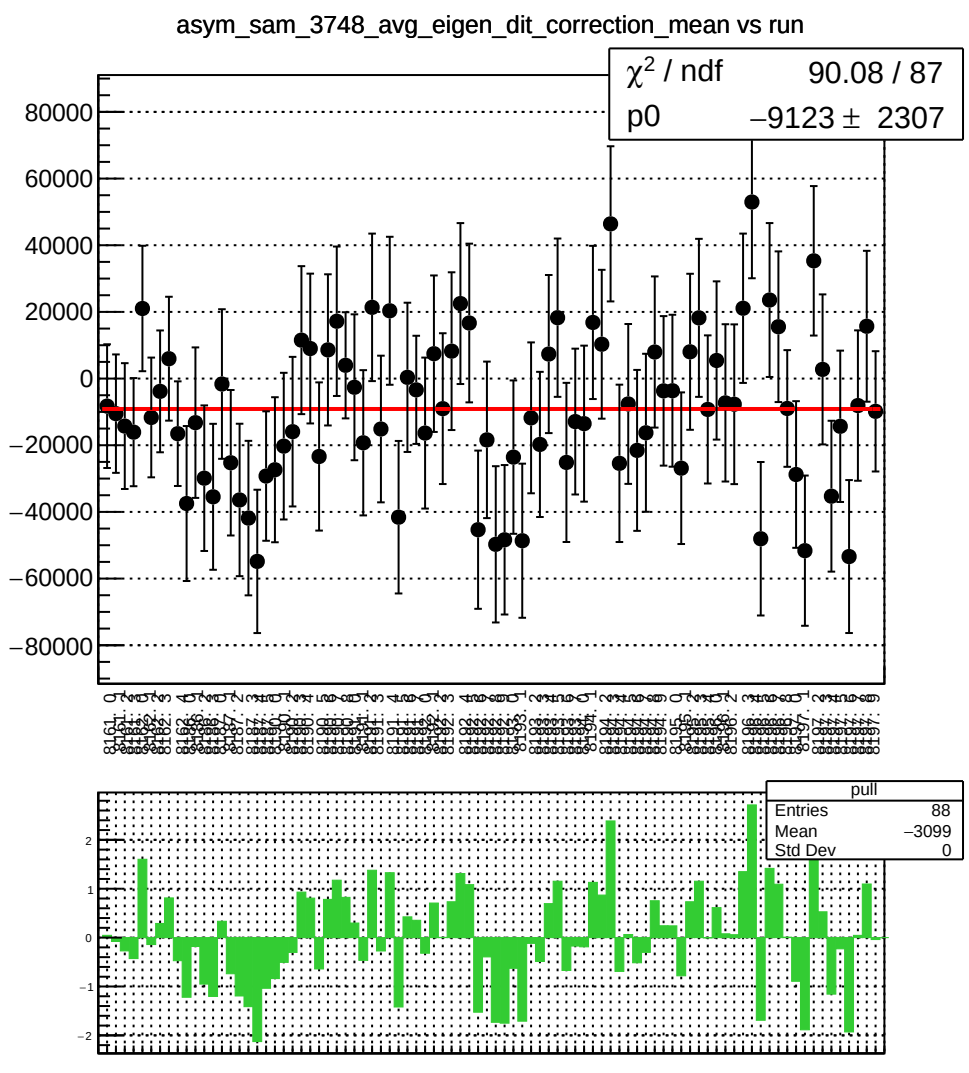

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 90.08 / 87
p0 −9123 ± 2307
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −3099
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001149
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

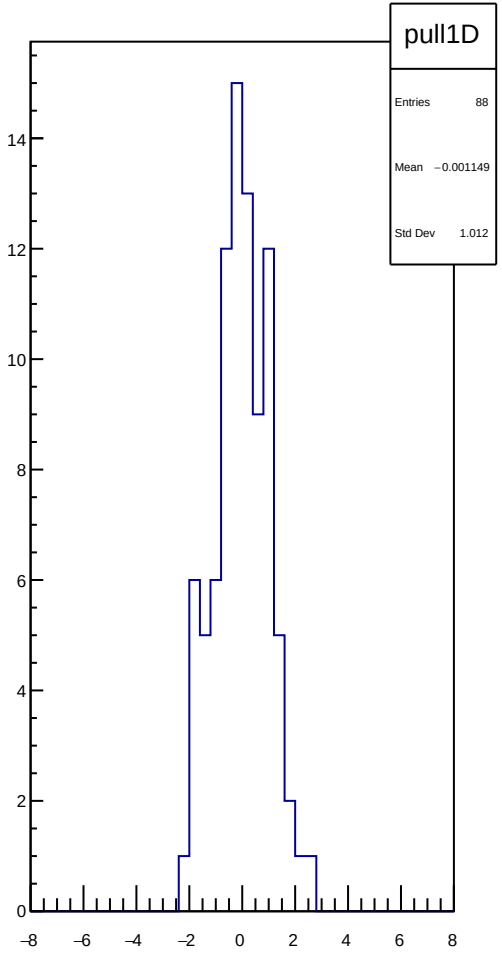

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 9589 / 87
p0 2100 ± 1.631
2300
2200
2100
2000
1900
1800
1700

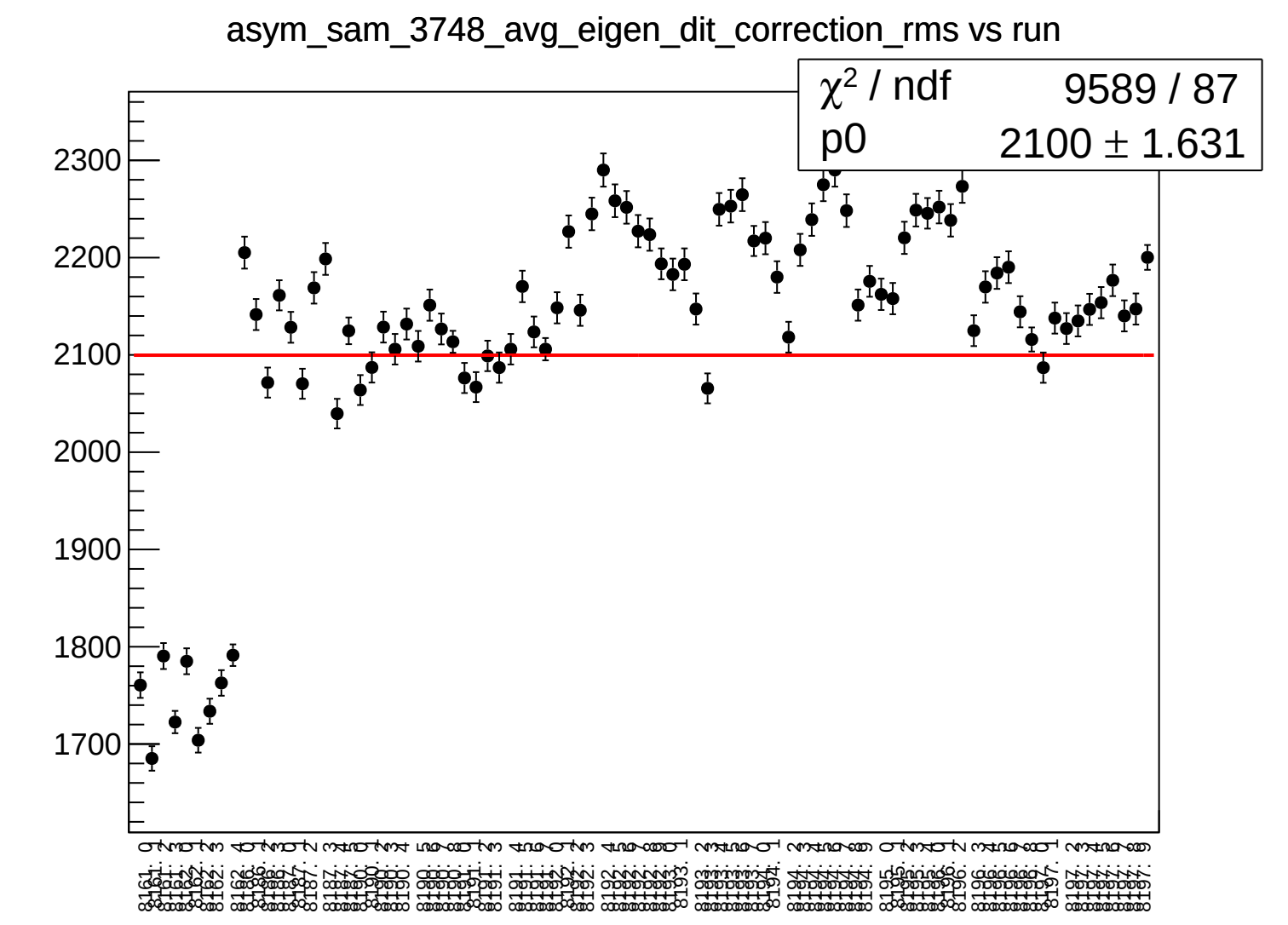

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 102.2 / 87
p0 −81.96 ± 171.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean −471.8
Std Dev 0
2
1
0
−1
−2
−3

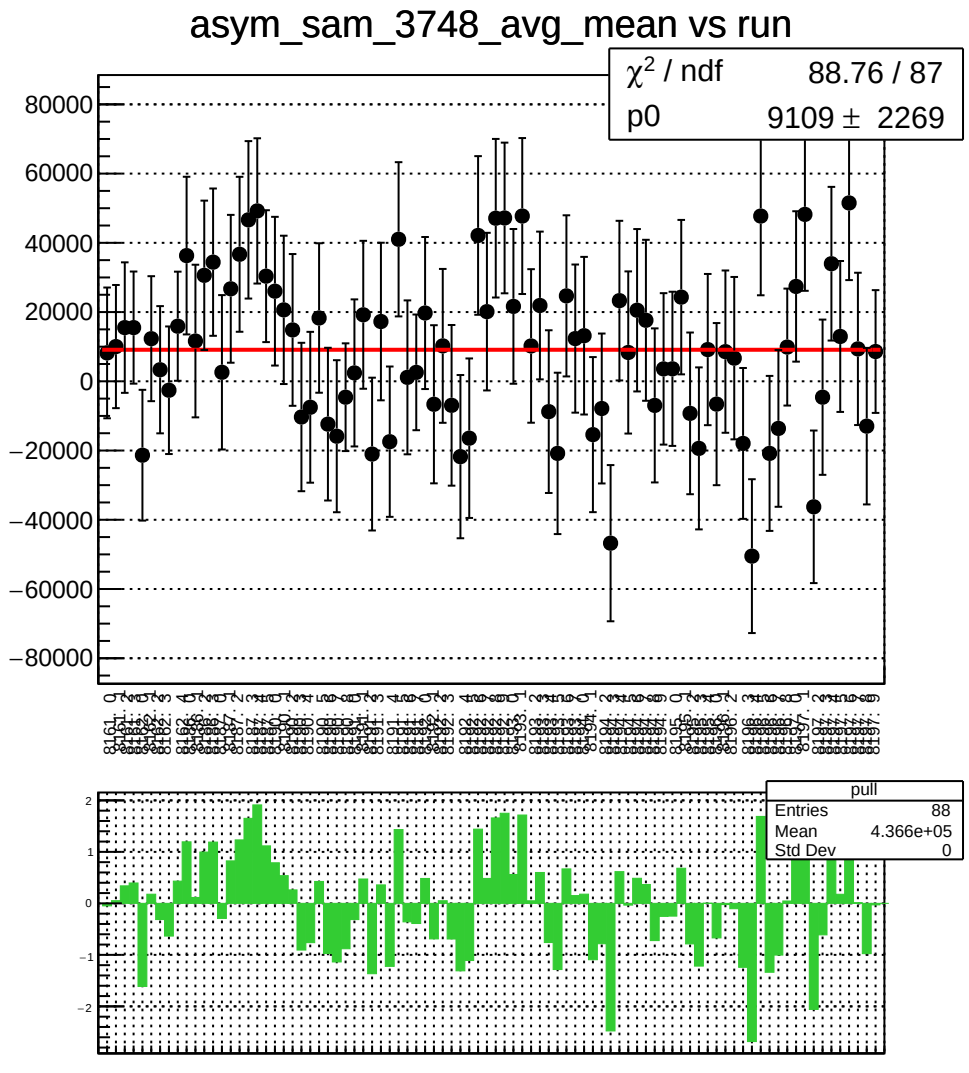

pull1D
Entries 88
Mean 0.002331
Std Dev 1.078
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

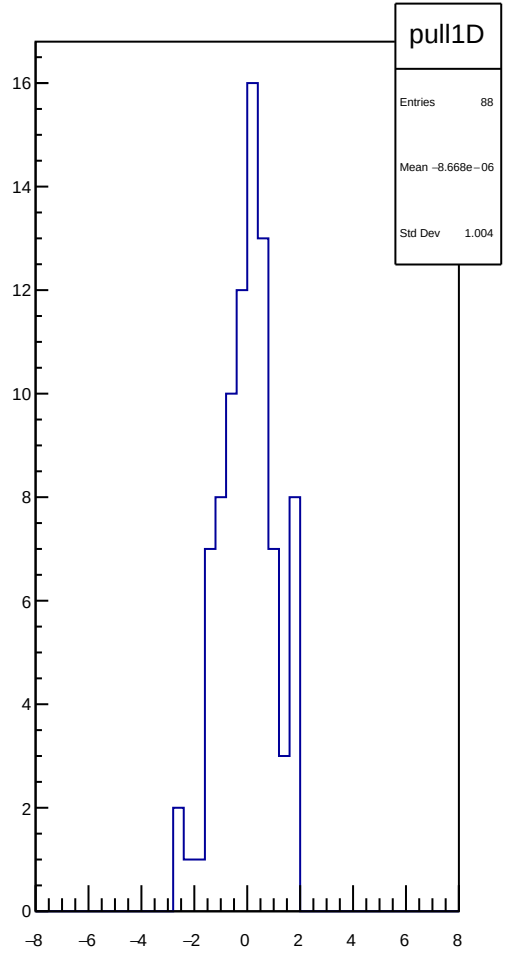

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.408e+04 / 87
p0 155.8 ± 0.1216
240
220
200
180
160
140
120

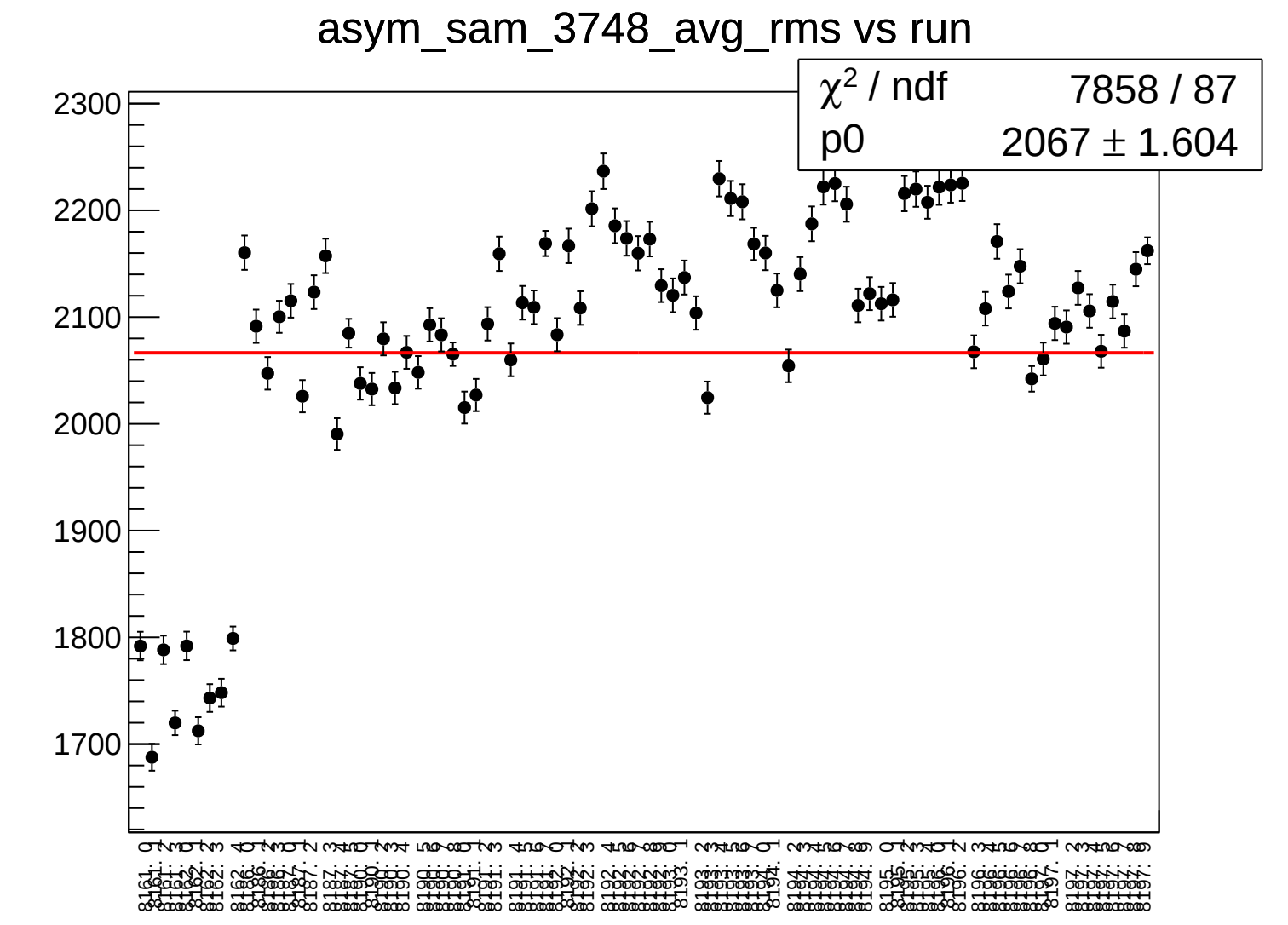

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.08 / 87
p0 −9123 ± 2307
pull
Entries 88
Mean −3099
Std Dev 0

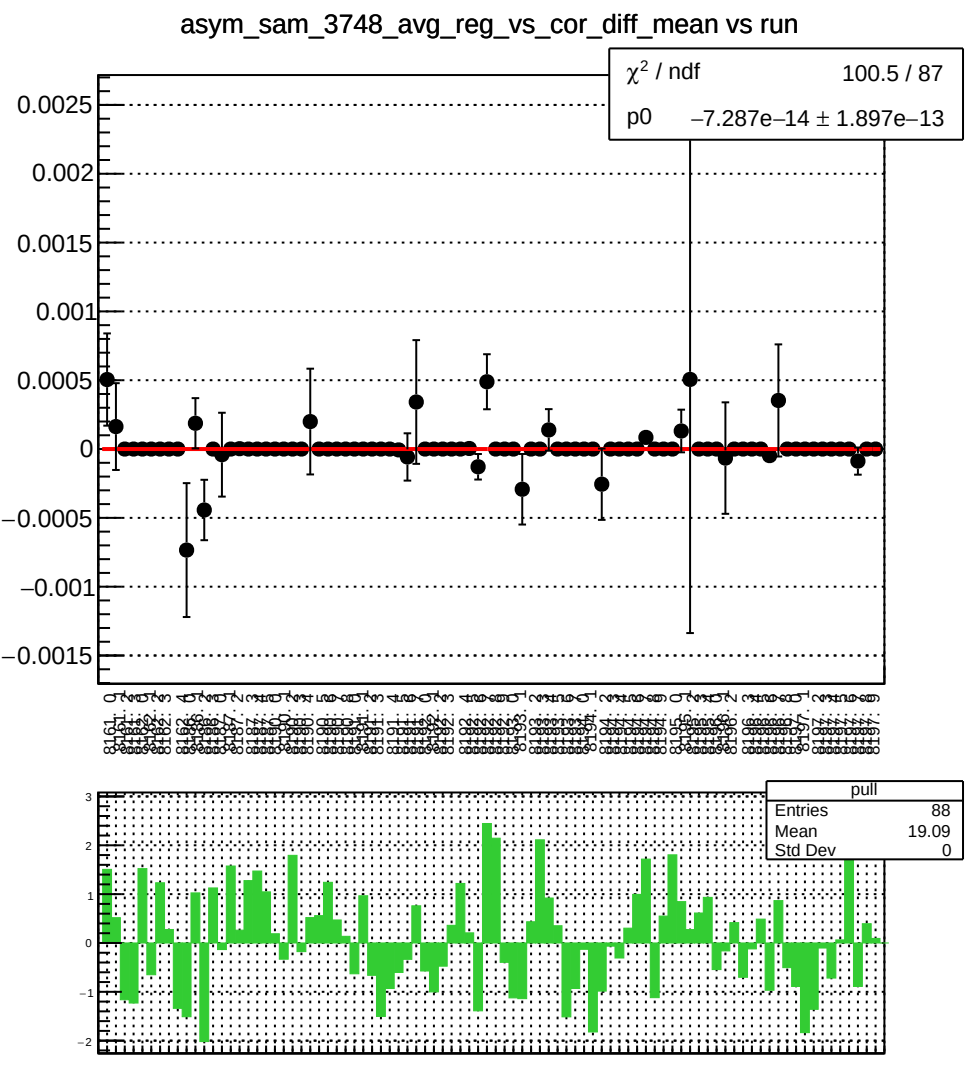

pull1D
Entries 88
Mean −0.001149
Std Dev 1.012

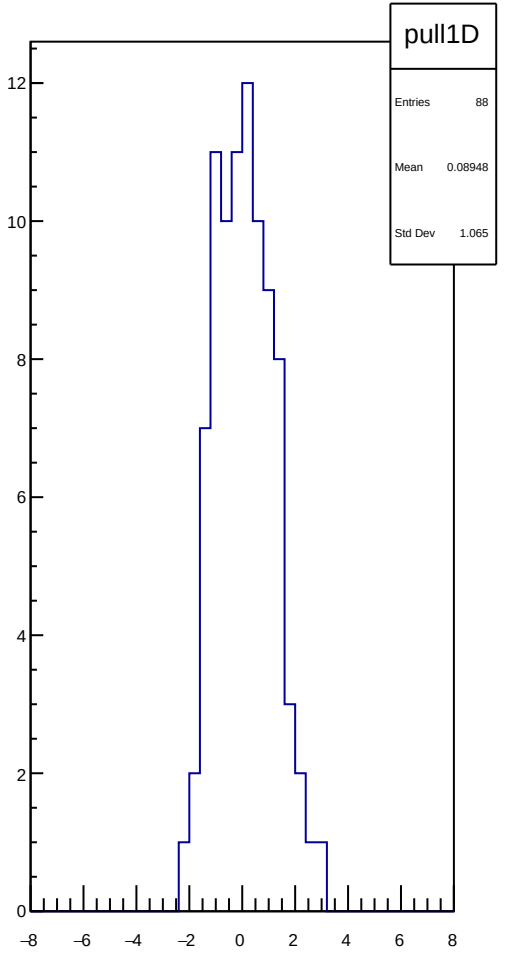

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 9589 / 87
p0 2100 ± 1.631
2300
2200
2100
2000
1900
1800
1700

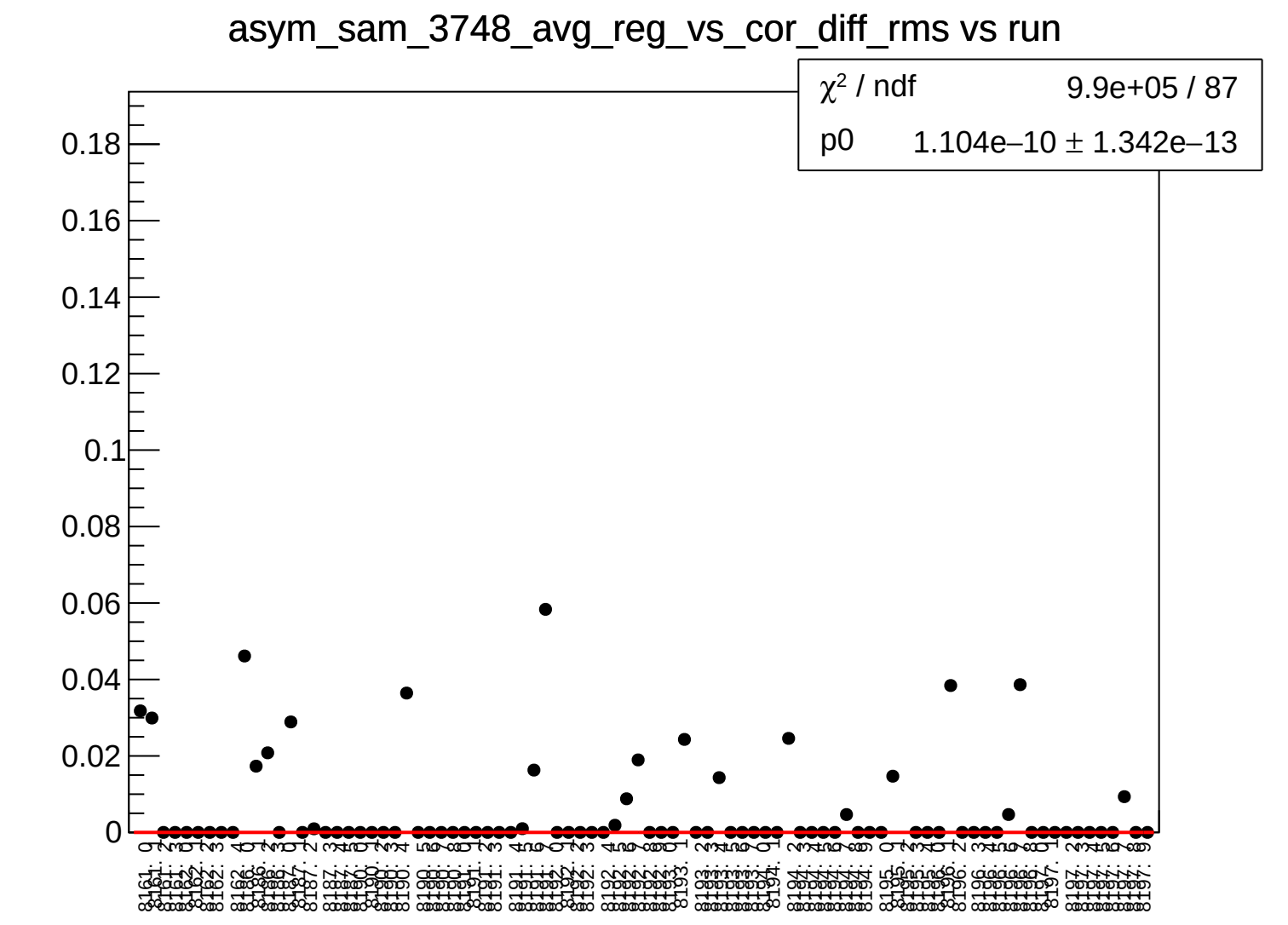

asym_sam_3748_avg_mean vs run
χ² / ndf 88.76 / 87
p0 9109 ± 2269
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 4.366e+05
Std Dev 0
2
1
0
−1
−2

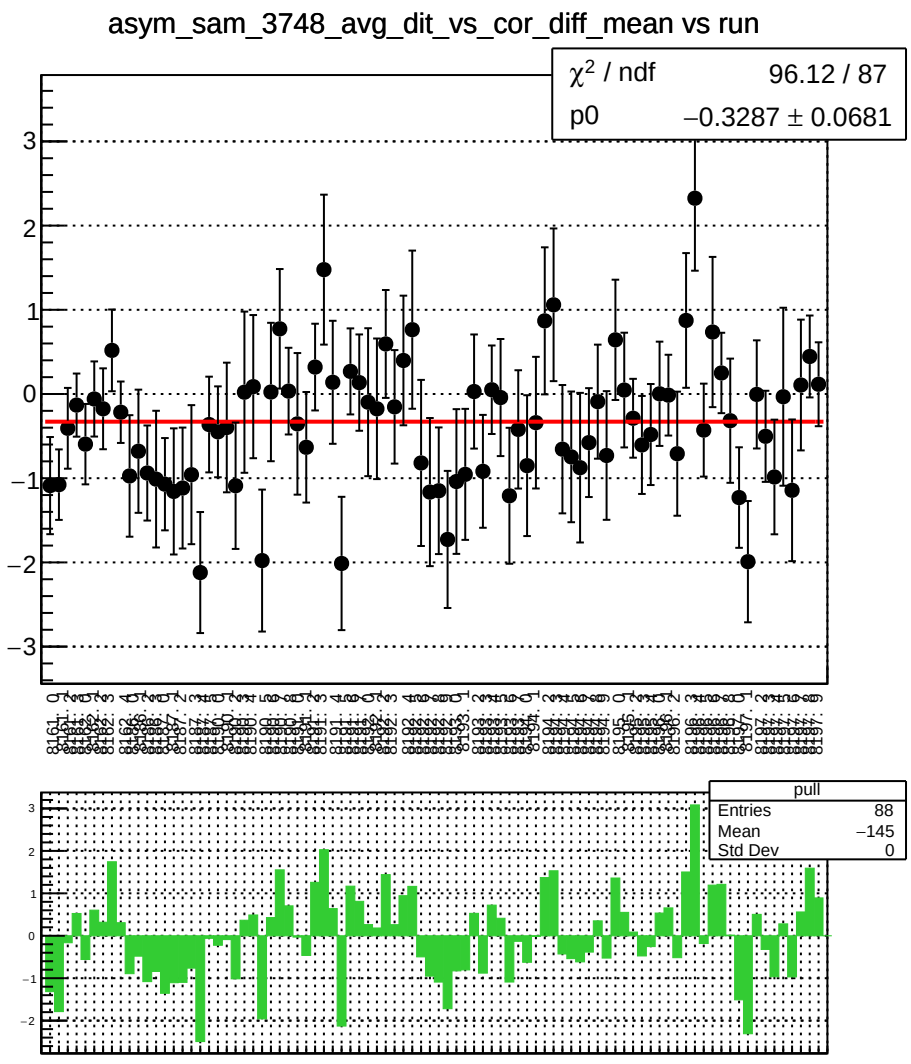

pull1D
Entries 88
Mean −8.668e−06
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

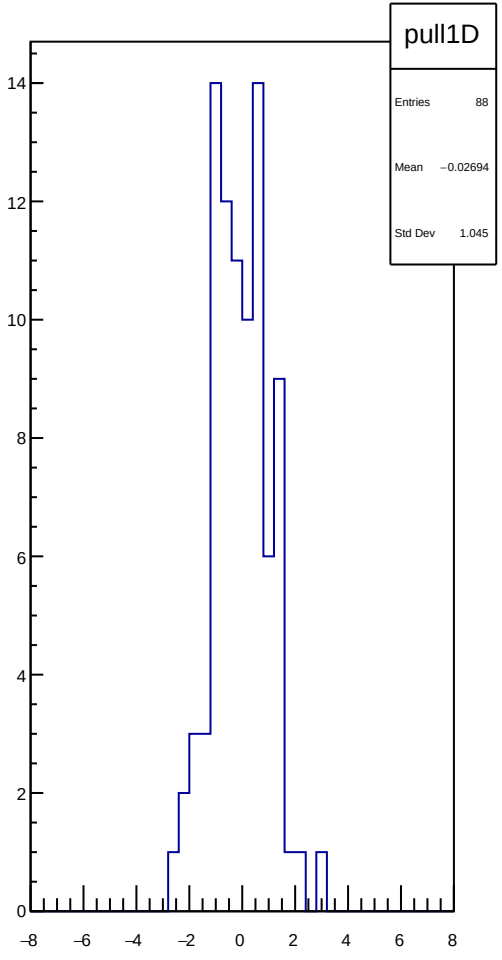

asym_sam_3748_avg_rms vs run
χ² / ndf 7858 / 87
p0 2067 ± 1.604
2300
2200
2100
2000
1900
1800
1700

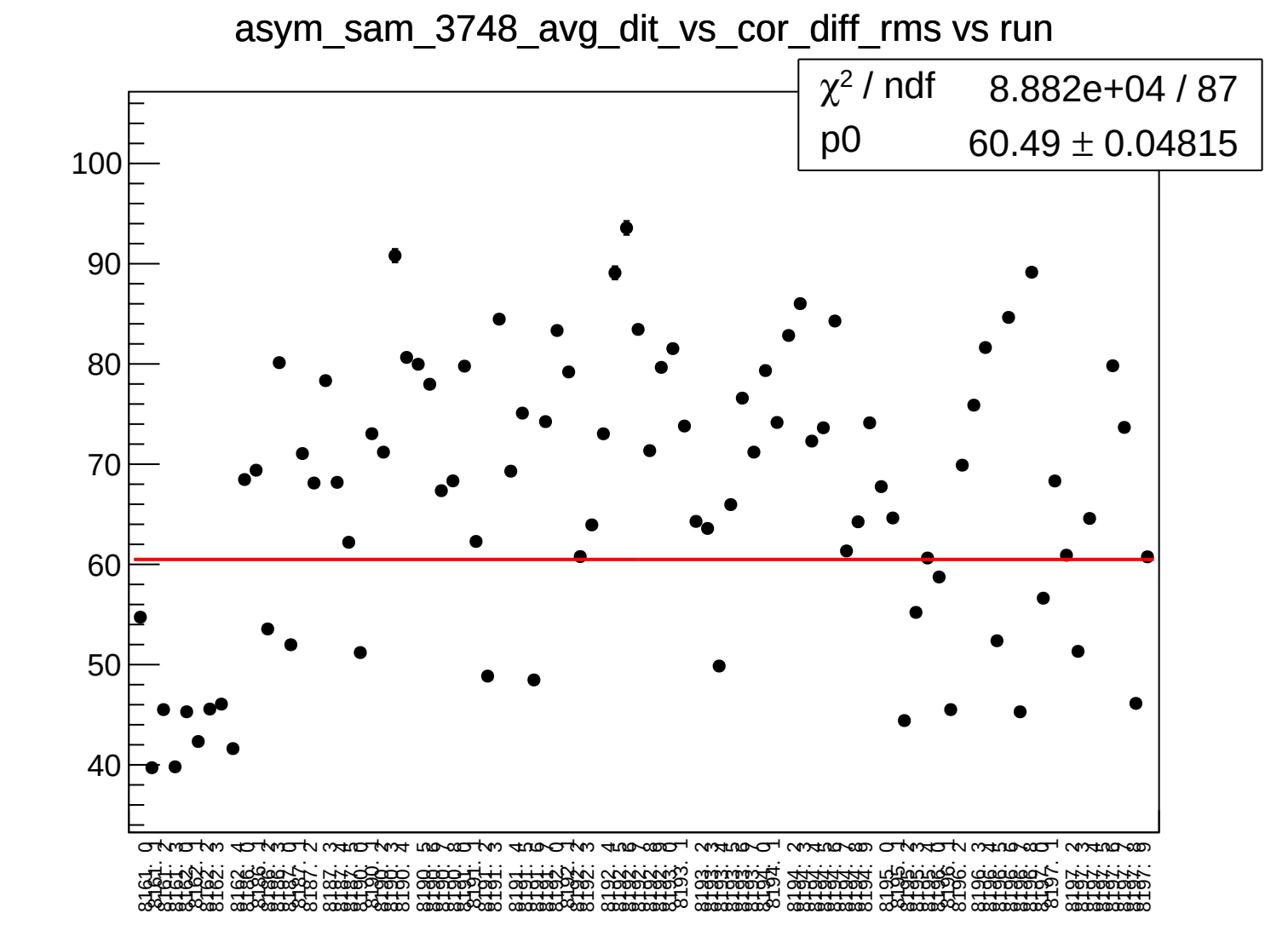

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 87
p0 −7.287e−14 ± 1.897e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 19.09
Std Dev 0
3
2
1
0
−1
−2

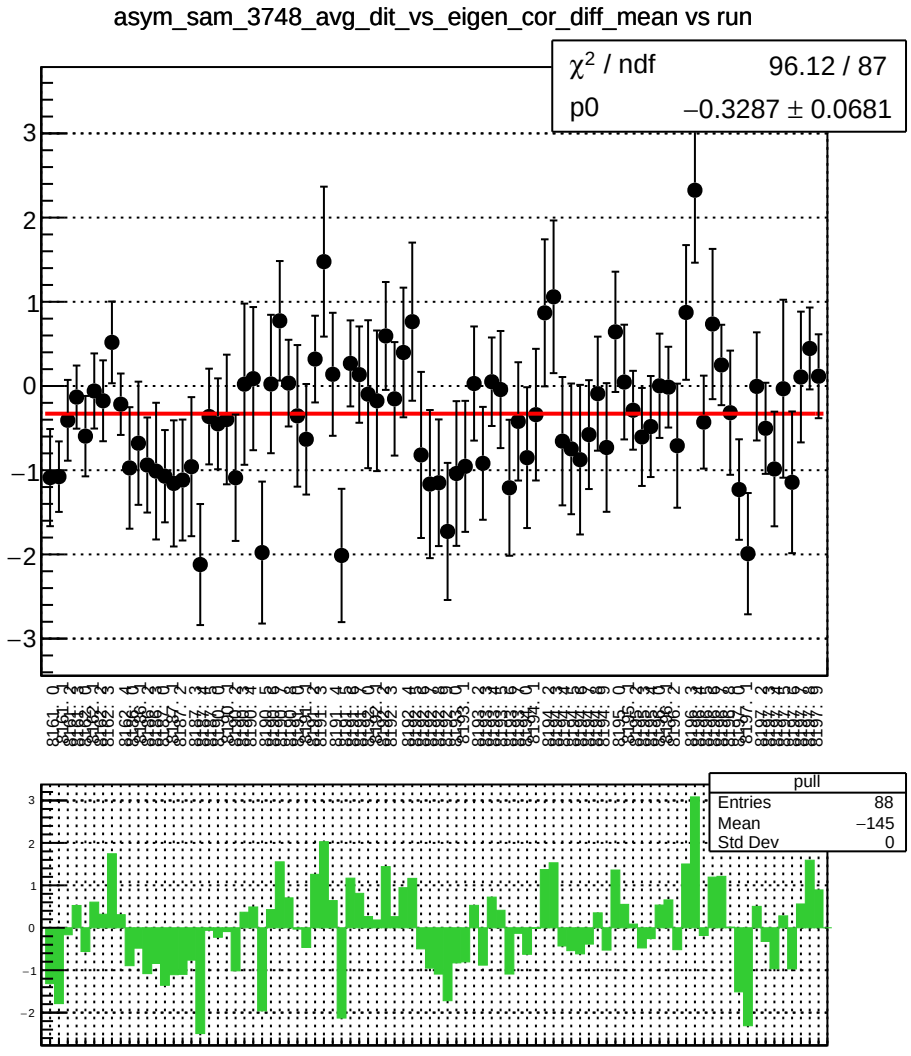

pull1D
Entries 88
Mean 0.08948
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

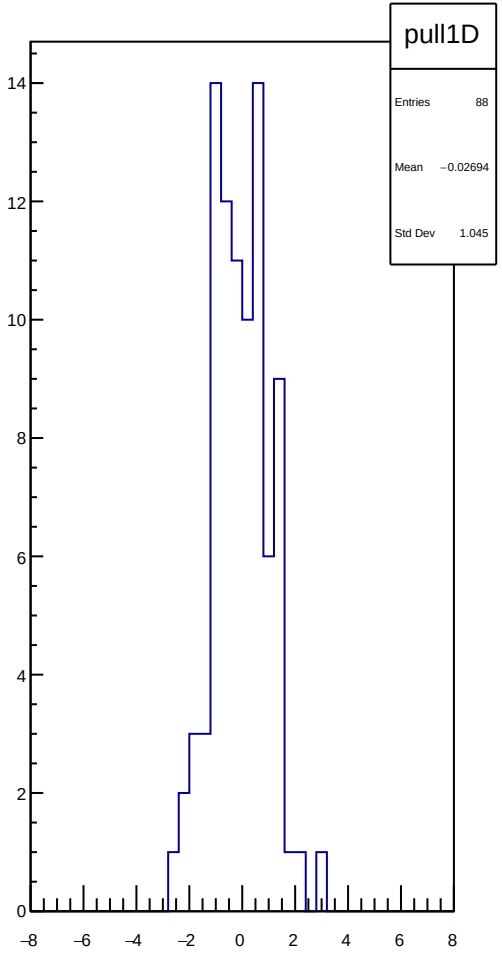

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.9e+05 / 87
p0 1.104e−10 ± 1.342e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

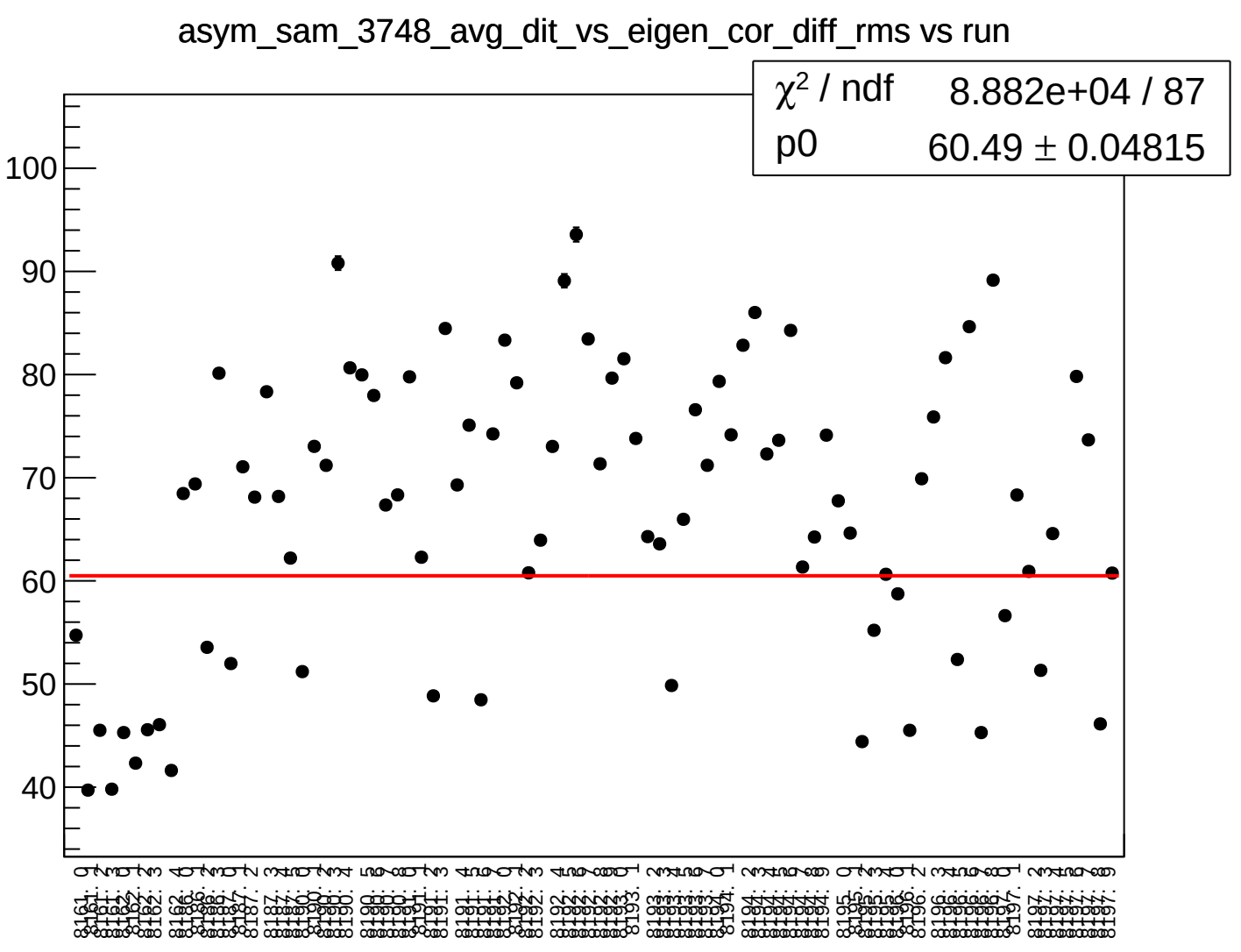

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.12 / 87
p0 −0.3287 ± 0.0681
pull
Entries 88
Mean −145
Std Dev 0

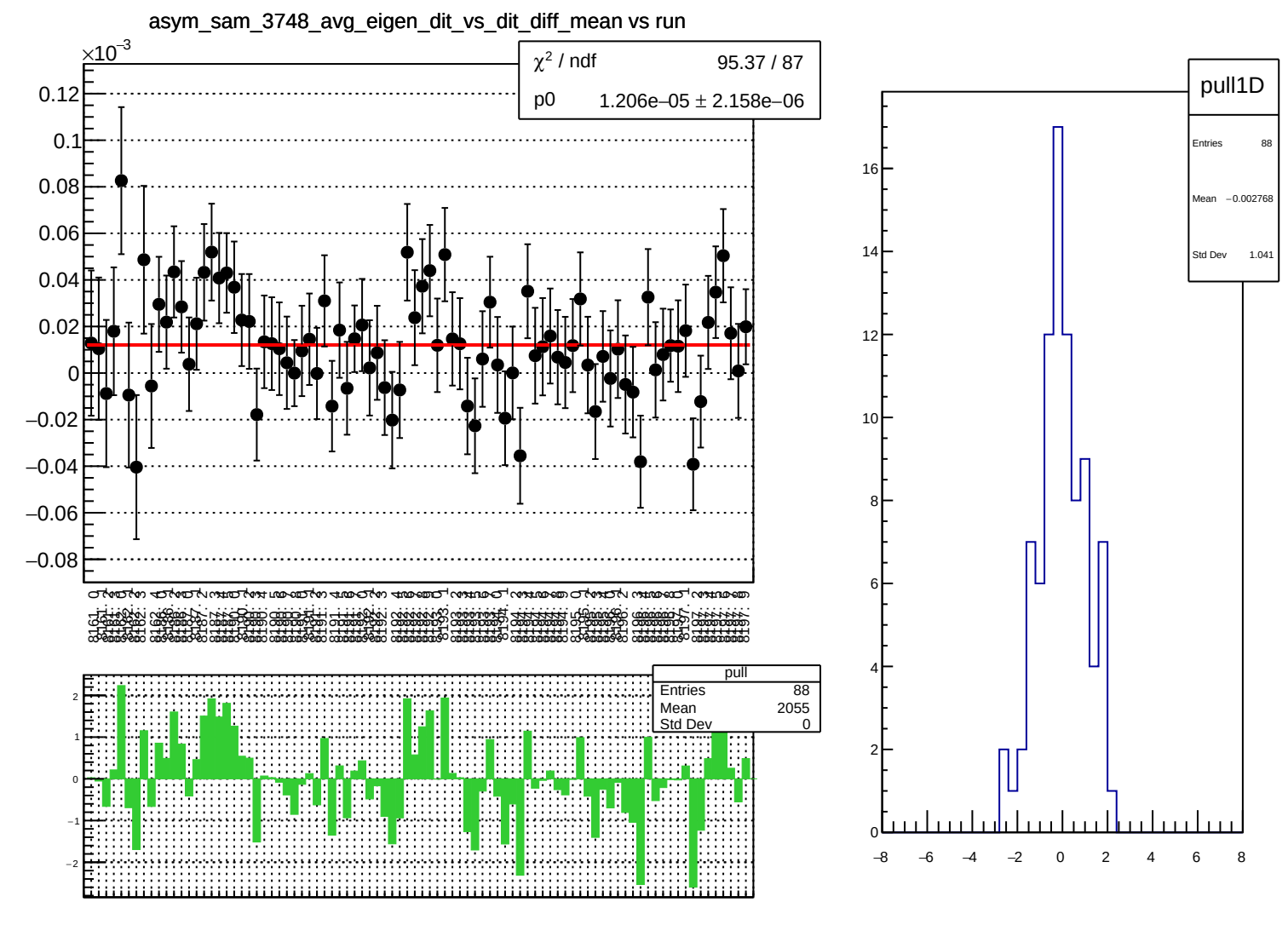

pull1D
Entries 88
Mean −0.02694
Std Dev 1.045

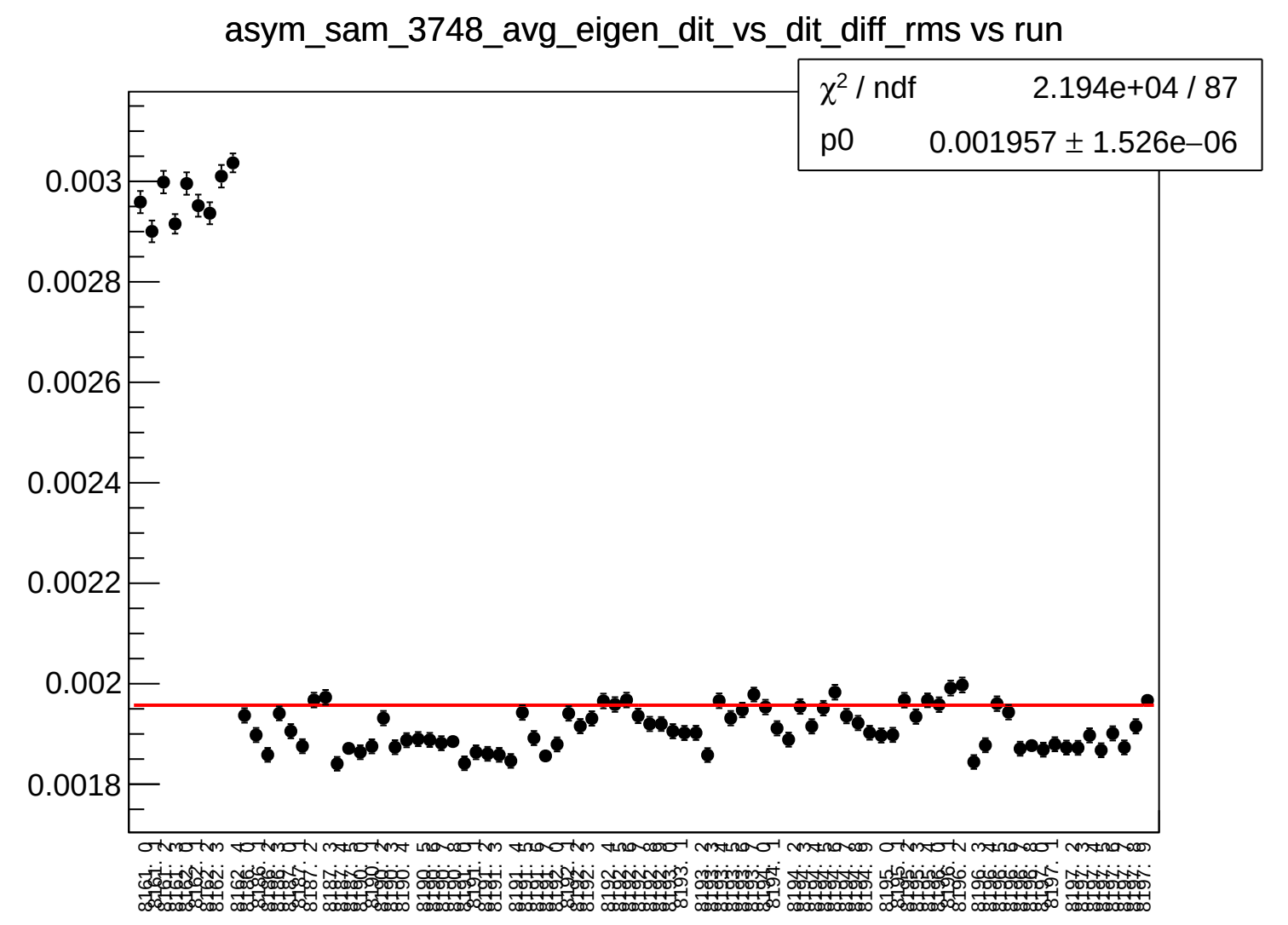

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.882e+04 / 87
p0 60.49 ± 0.04815
100
90
80
70
60
50
40

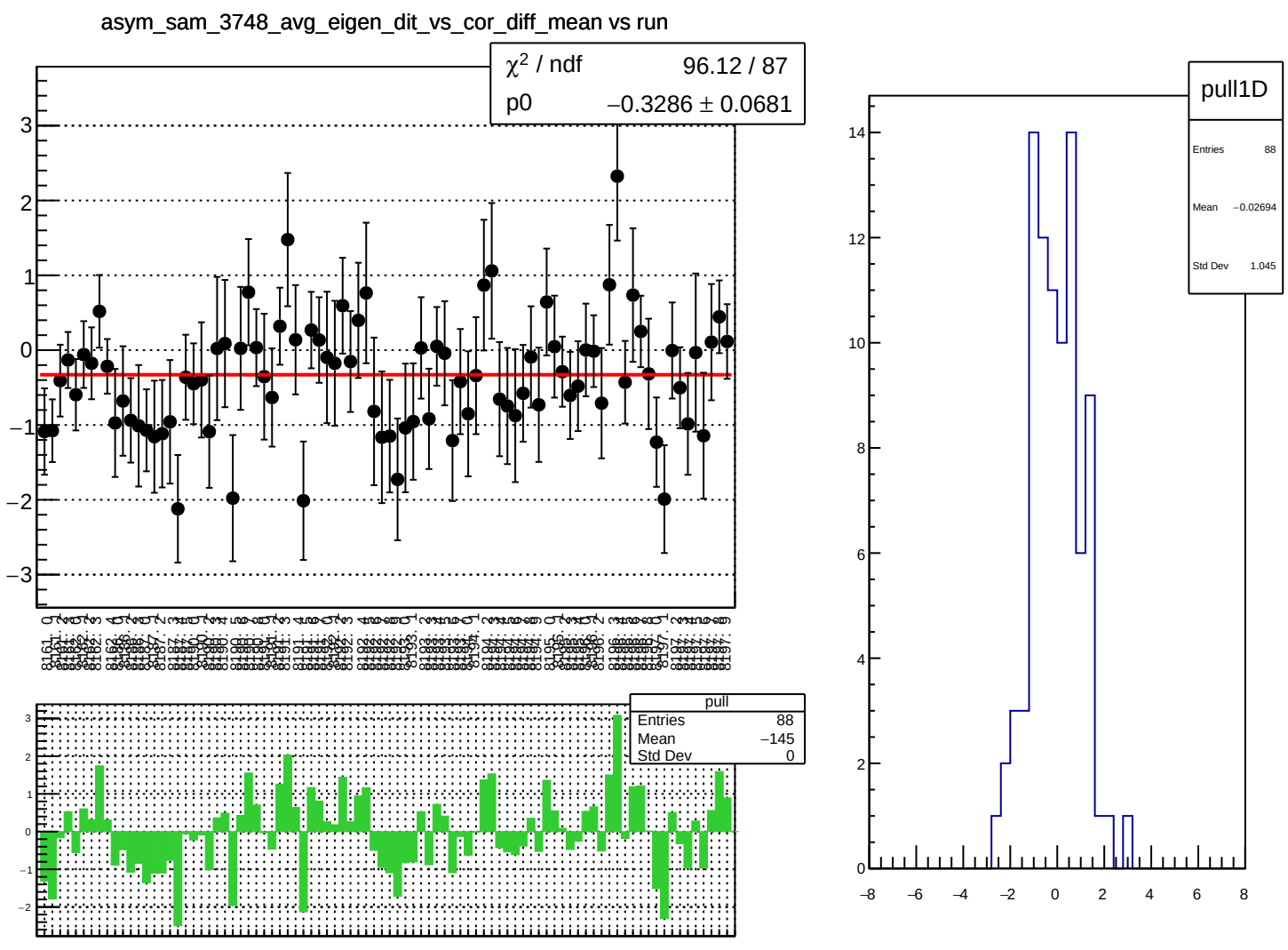

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.12 / 87
p0 −0.3287 ± 0.0681
pull
Entries 88
Mean −145
Std Dev 0

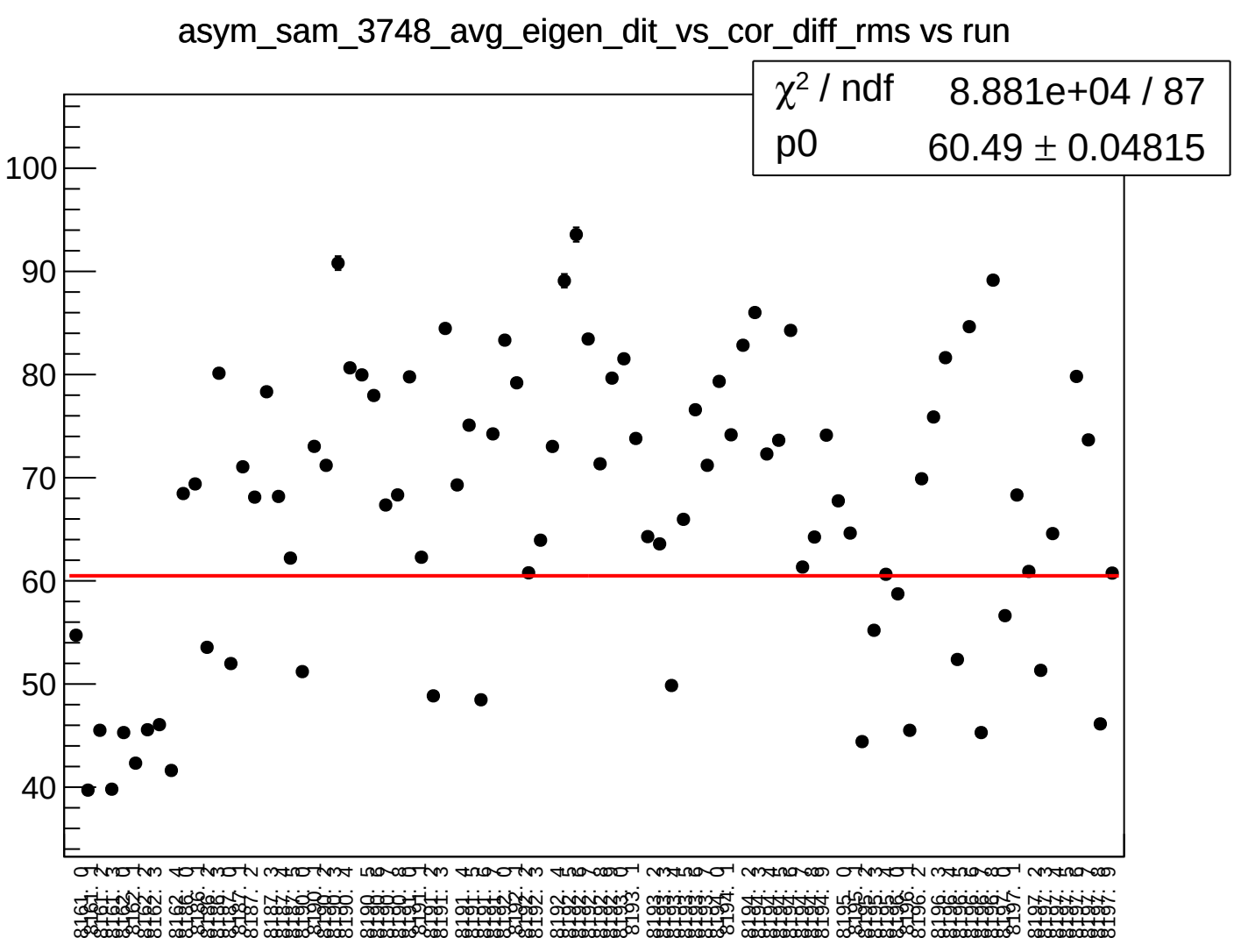

pull1D
Entries 88
Mean −0.02694
Std Dev 1.045

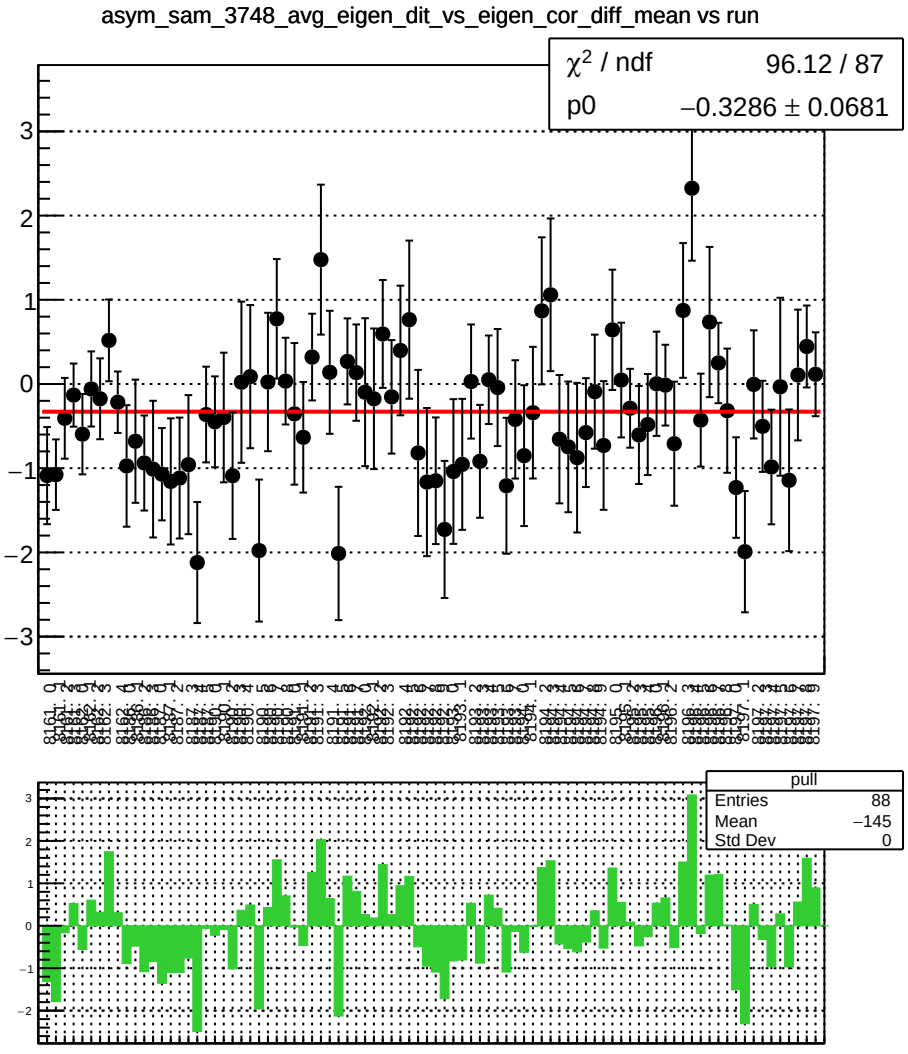

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.882e+04 / 87
p0 60.49 ± 0.04815
100
90
80
70
60
50
40

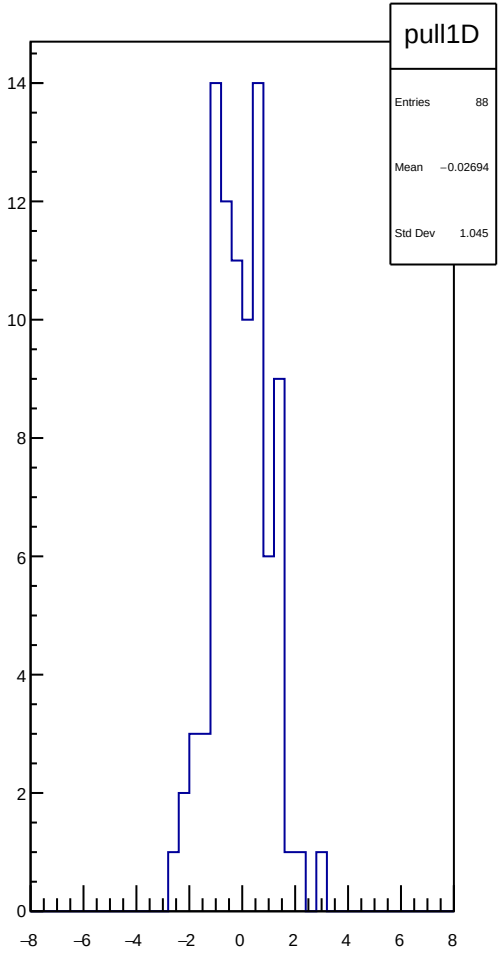

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.37 / 87
p0 1.206e−05 ± 2.158e−06
pull
Entries 88
Mean 2055
Std Dev 0
pull1D
Entries 88
Mean −0.002768
Std Dev 1.041

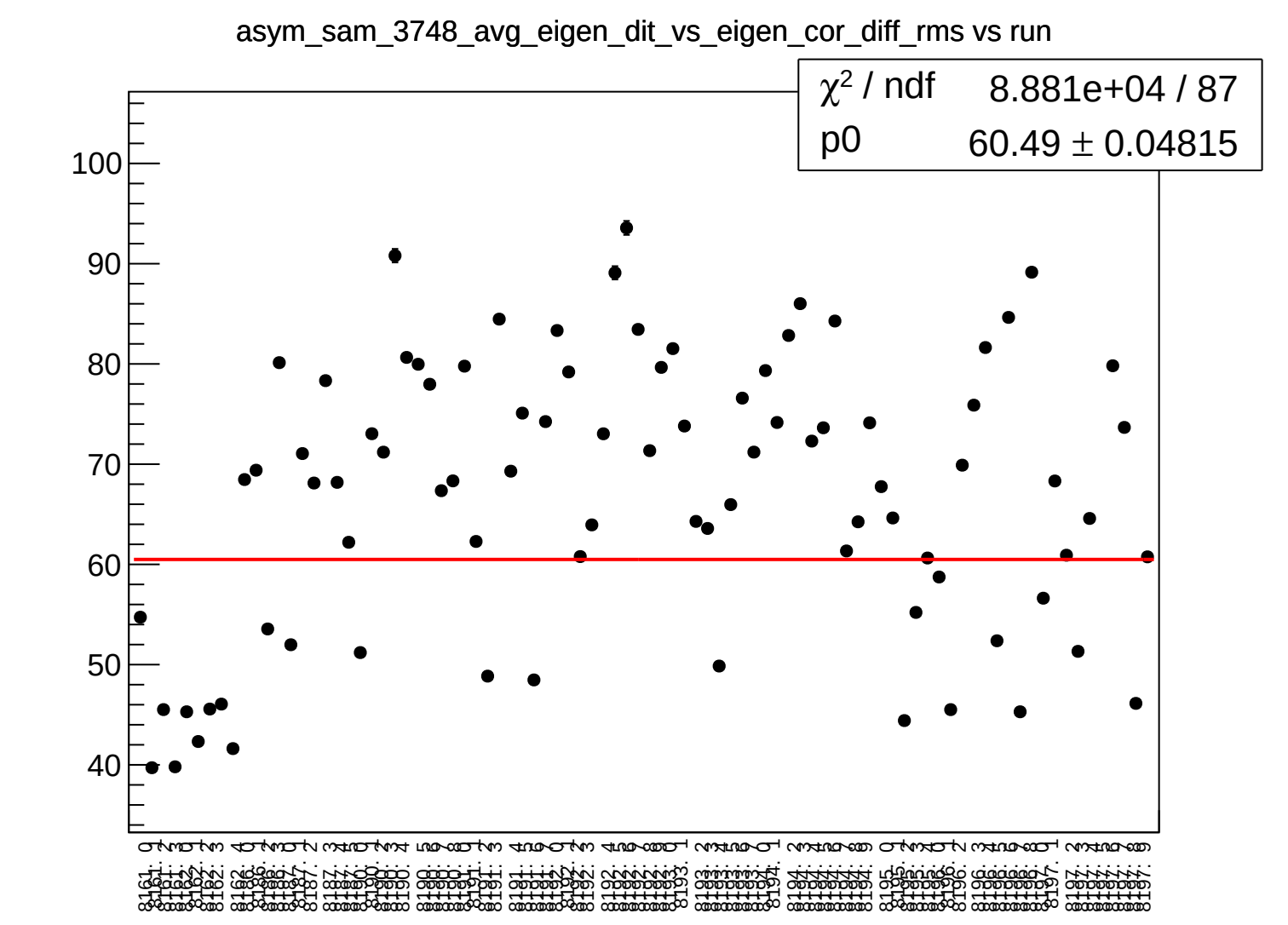

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.194e+04 / 87
p0 0.001957 ± 1.526e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

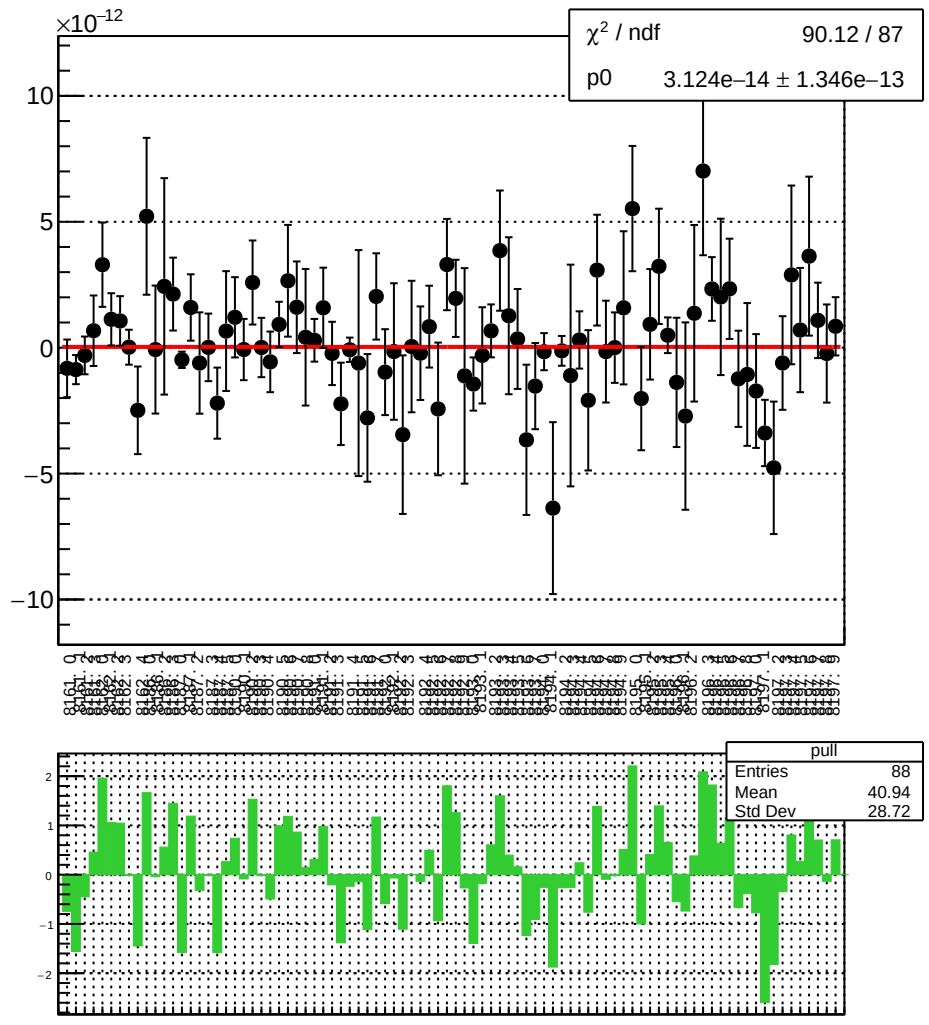

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.12 / 87
p0 −0.3286 ± 0.0681
pull
Entries 88
Mean −145
Std Dev 0
pull1D
Entries 88
Mean −0.02694
Std Dev 1.045

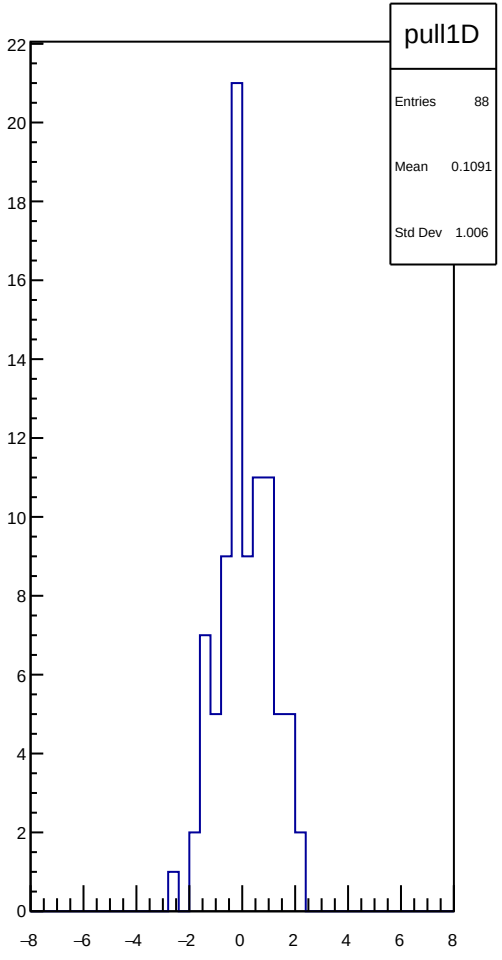

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.881e+04 / 87
p0 60.49 ± 0.04815
100
90
80
70
60
50
40

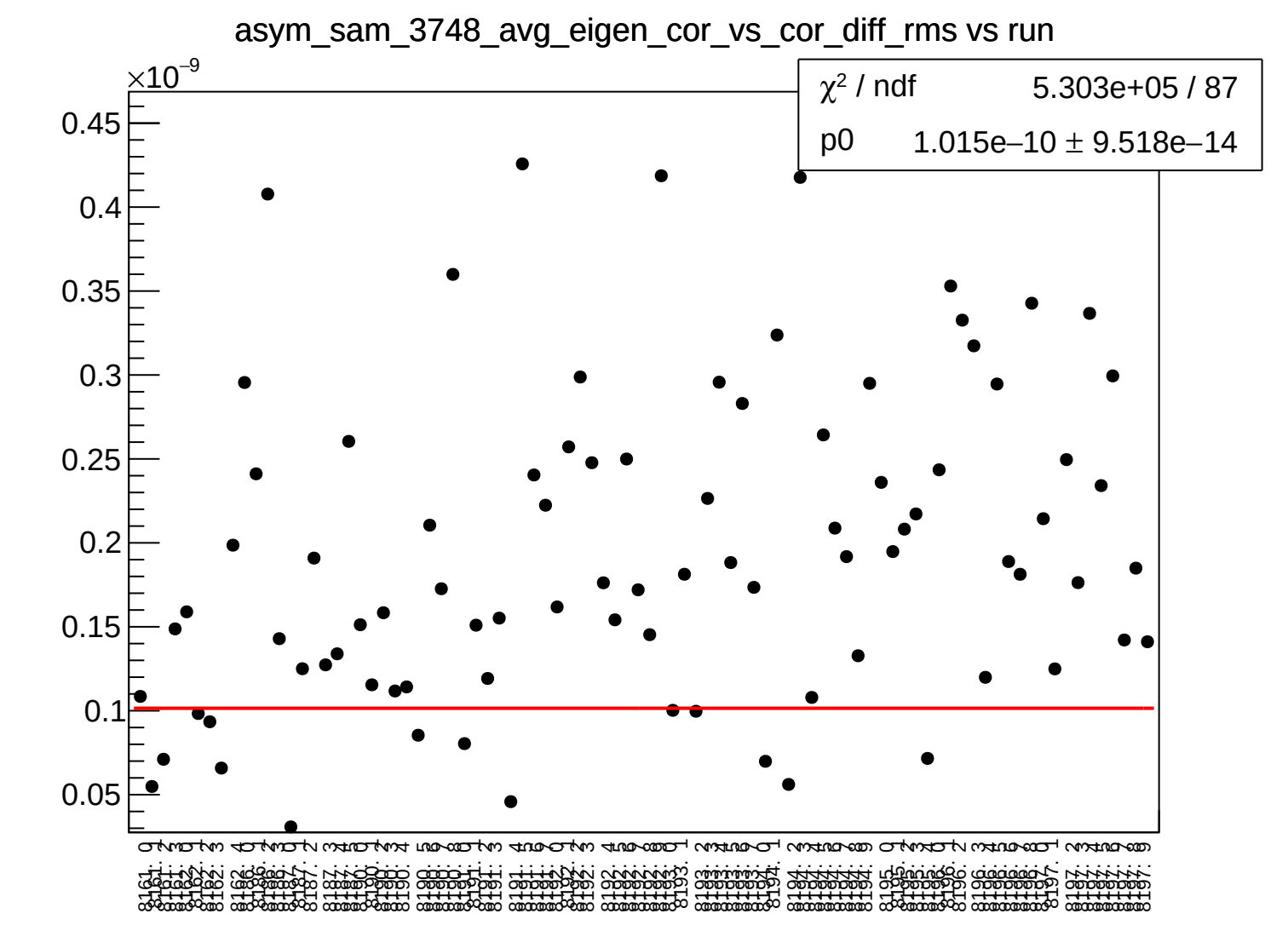

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.12 / 87
p0 −0.3286 ± 0.0681
pull
Entries 88
Mean −145
Std Dev 0

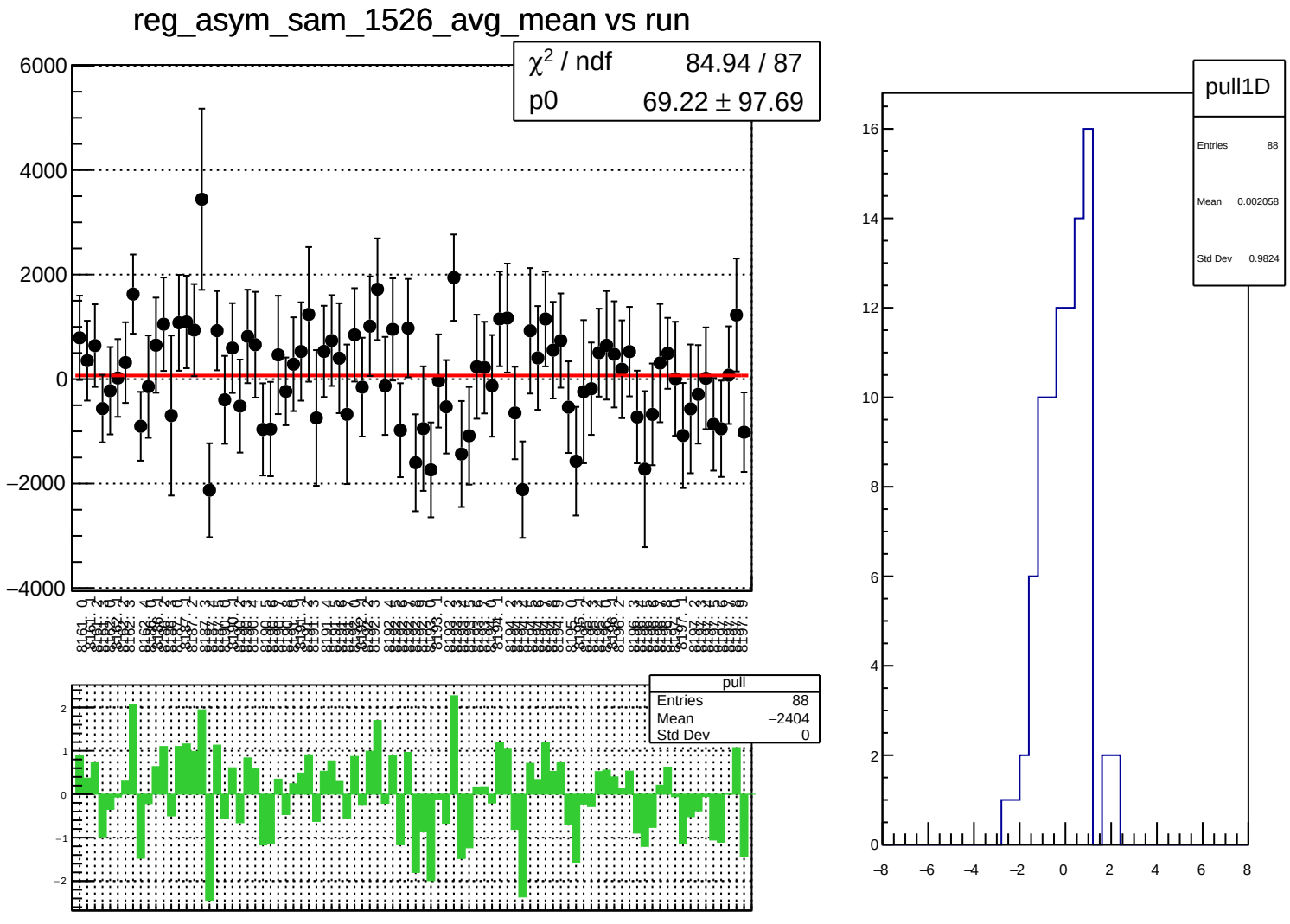

pull1D
Entries 88
Mean −0.02694
Std Dev 1.045

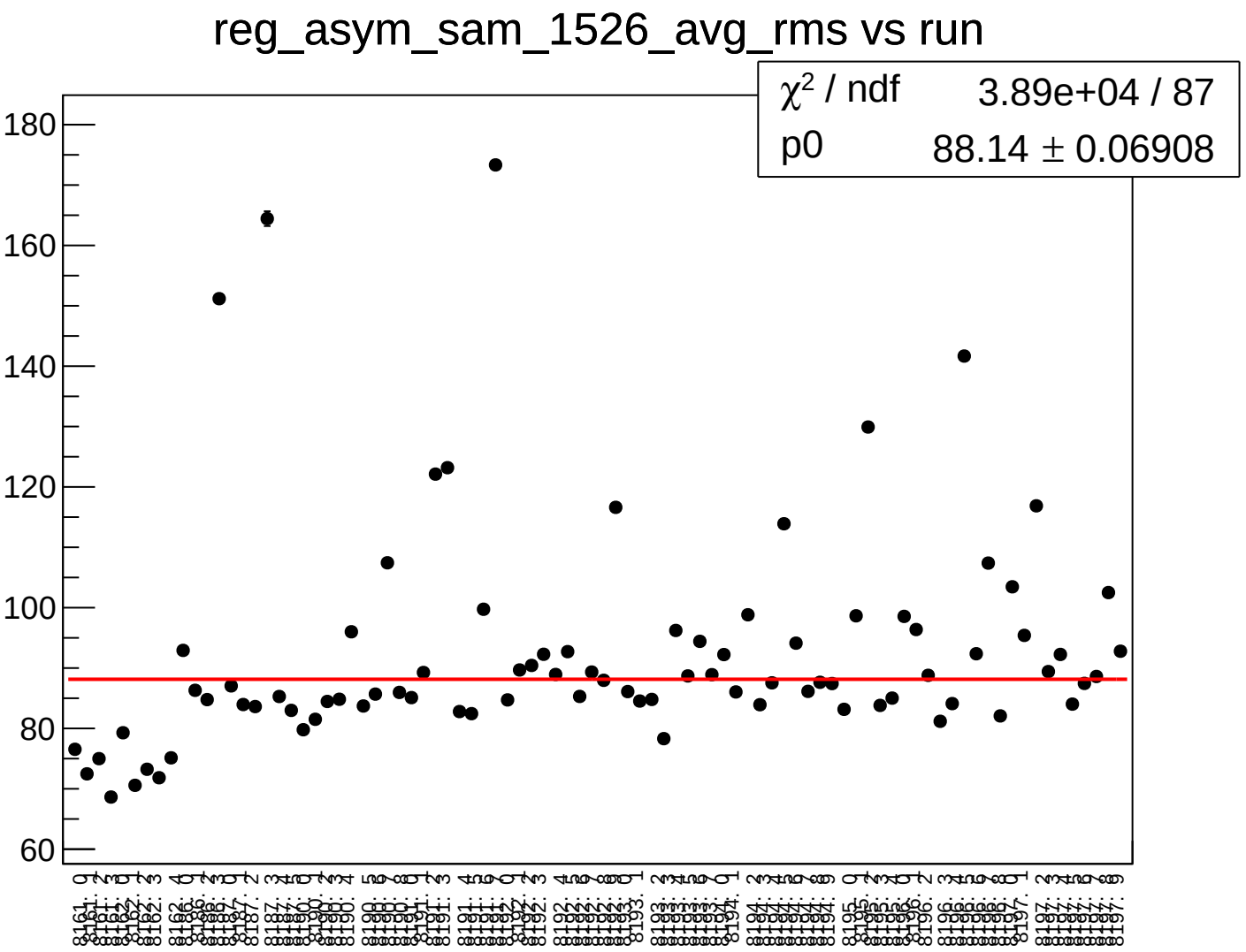

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.881e+04 / 87
p0 60.49 ± 0.04815
100
90
80
70
60
50
40

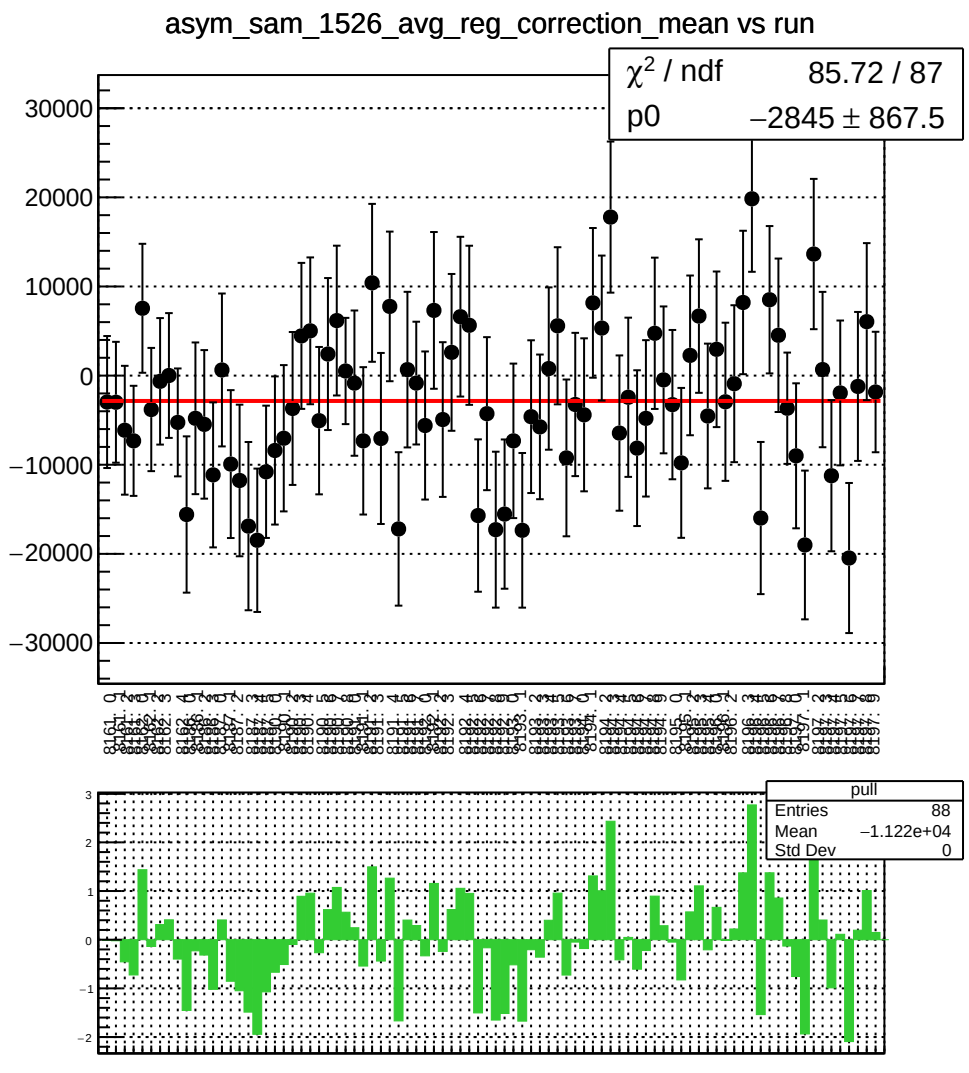

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.12 / 87
p0 3.124e−14 ± 1.346e−13
pull
Entries 88
Mean 40.94
Std Dev 28.72

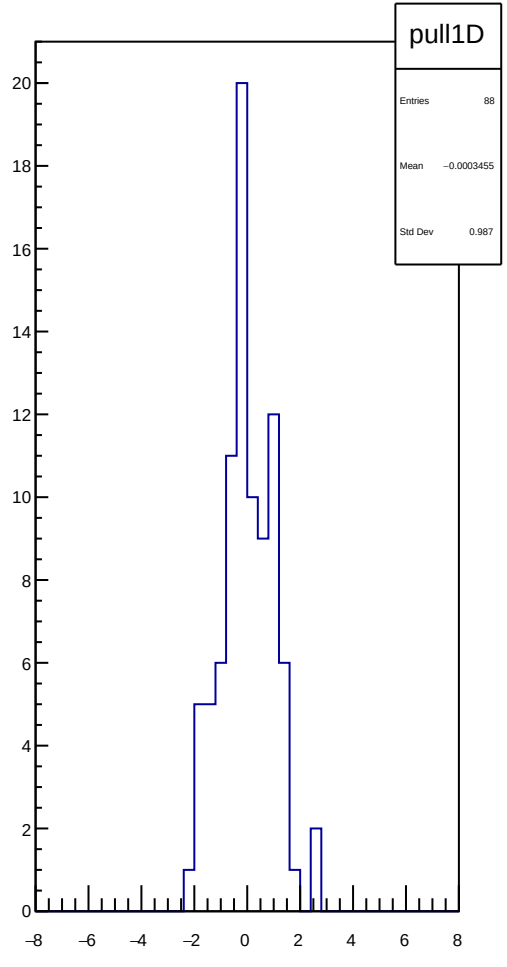

pull1D
Entries 88
Mean 0.1091
Std Dev 1.006

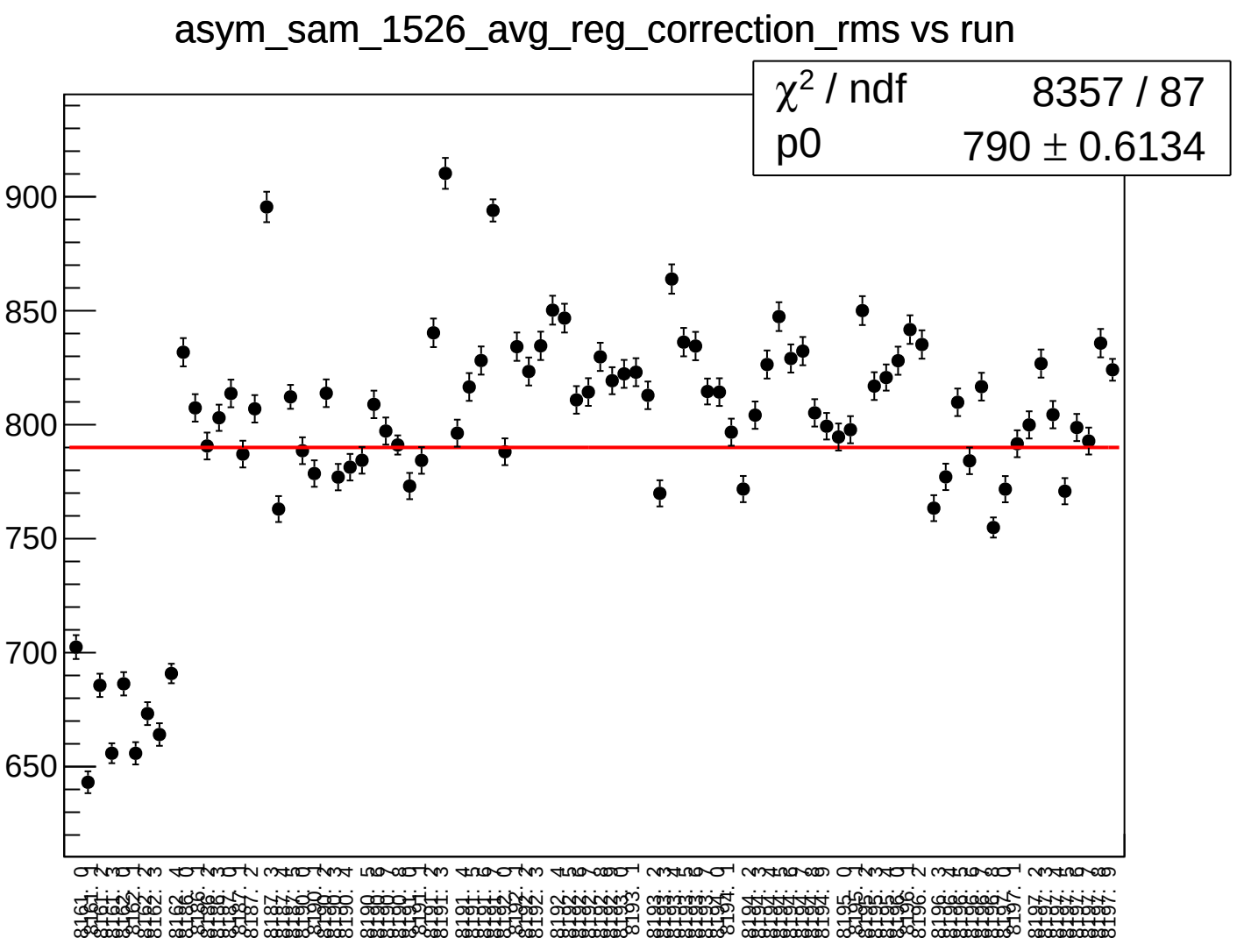

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.303e+05 / 87
p0 1.015e−10 ± 9.518e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

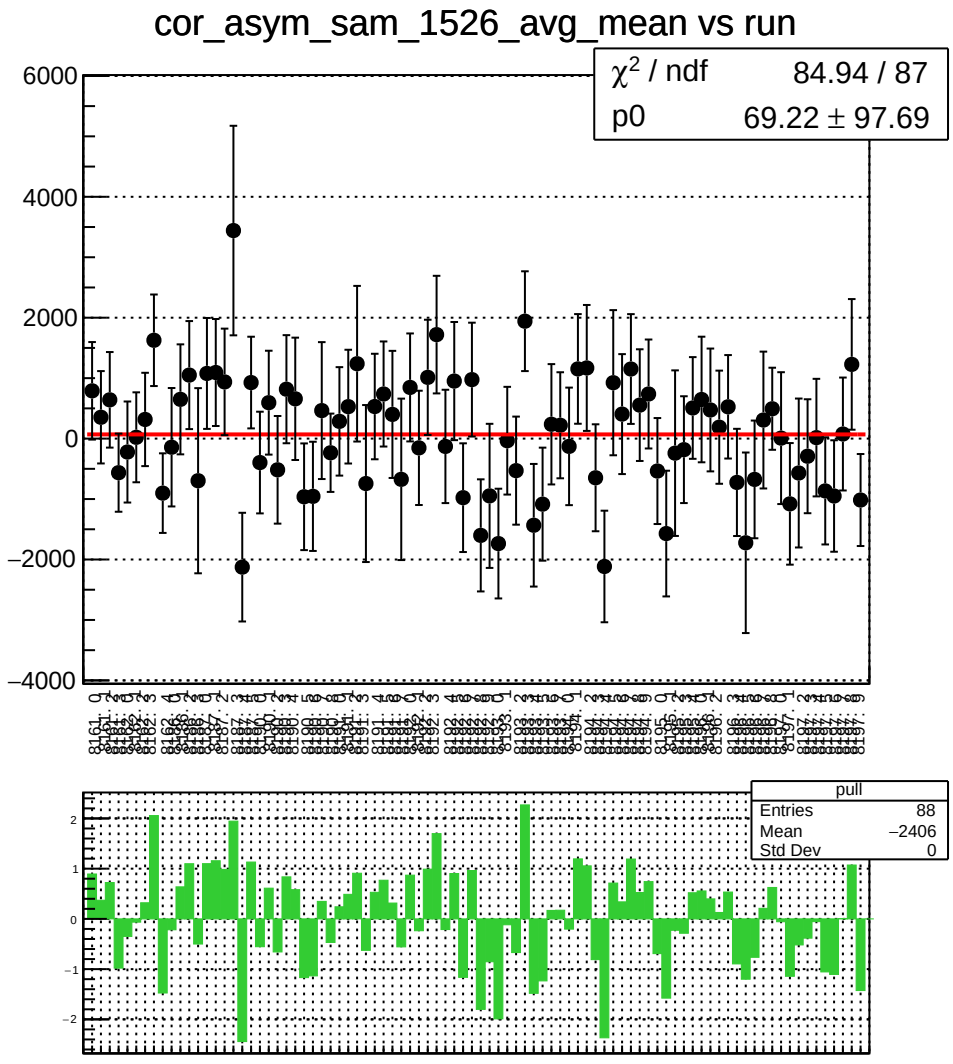

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 84.94 / 87
p0 69.22 ± 97.69
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −2404
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002058
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

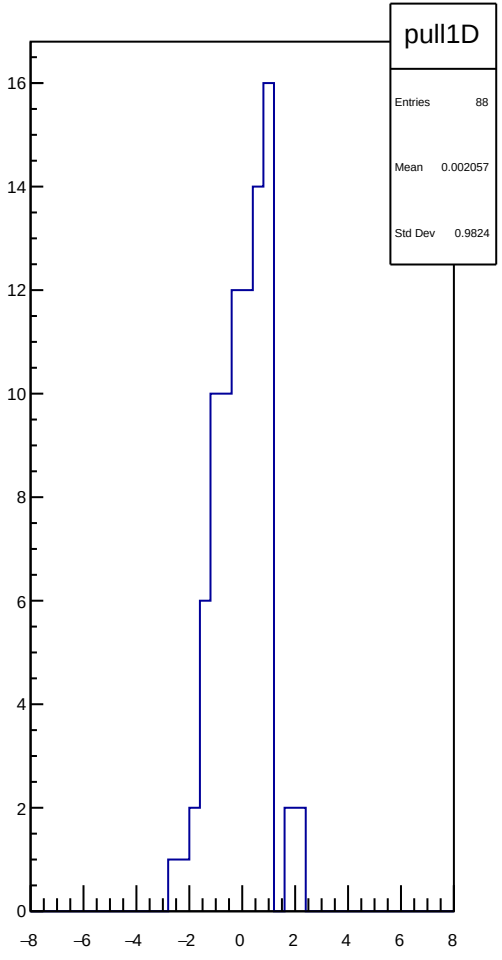

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 3.89e+04 / 87
p0 88.14 ± 0.06908
180
160
140
120
100
80
60

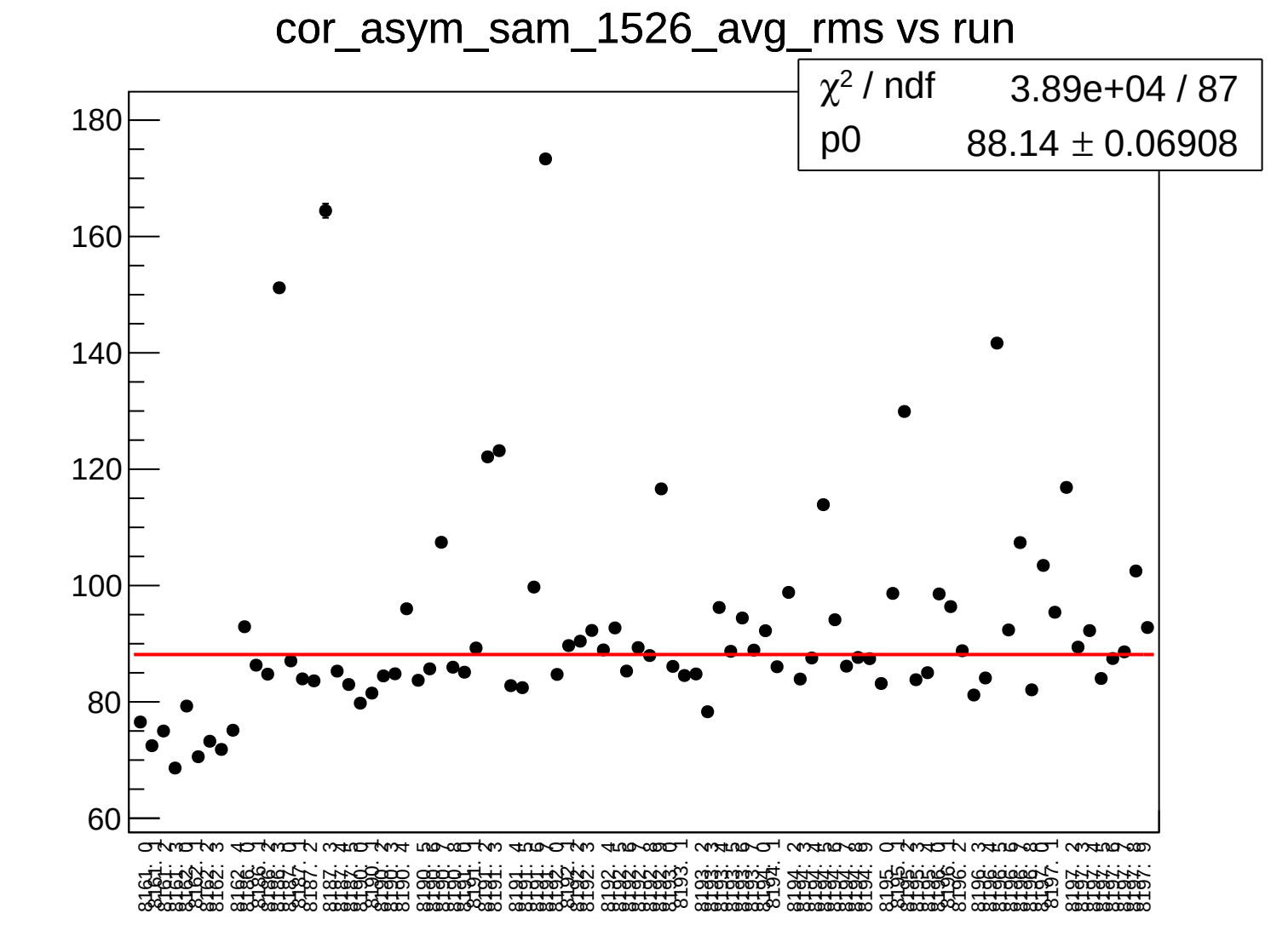

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 85.72 / 87
p0 −2845 ± 867.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1.122e+04
Std Dev 0
3
2
1
0
−1
−2

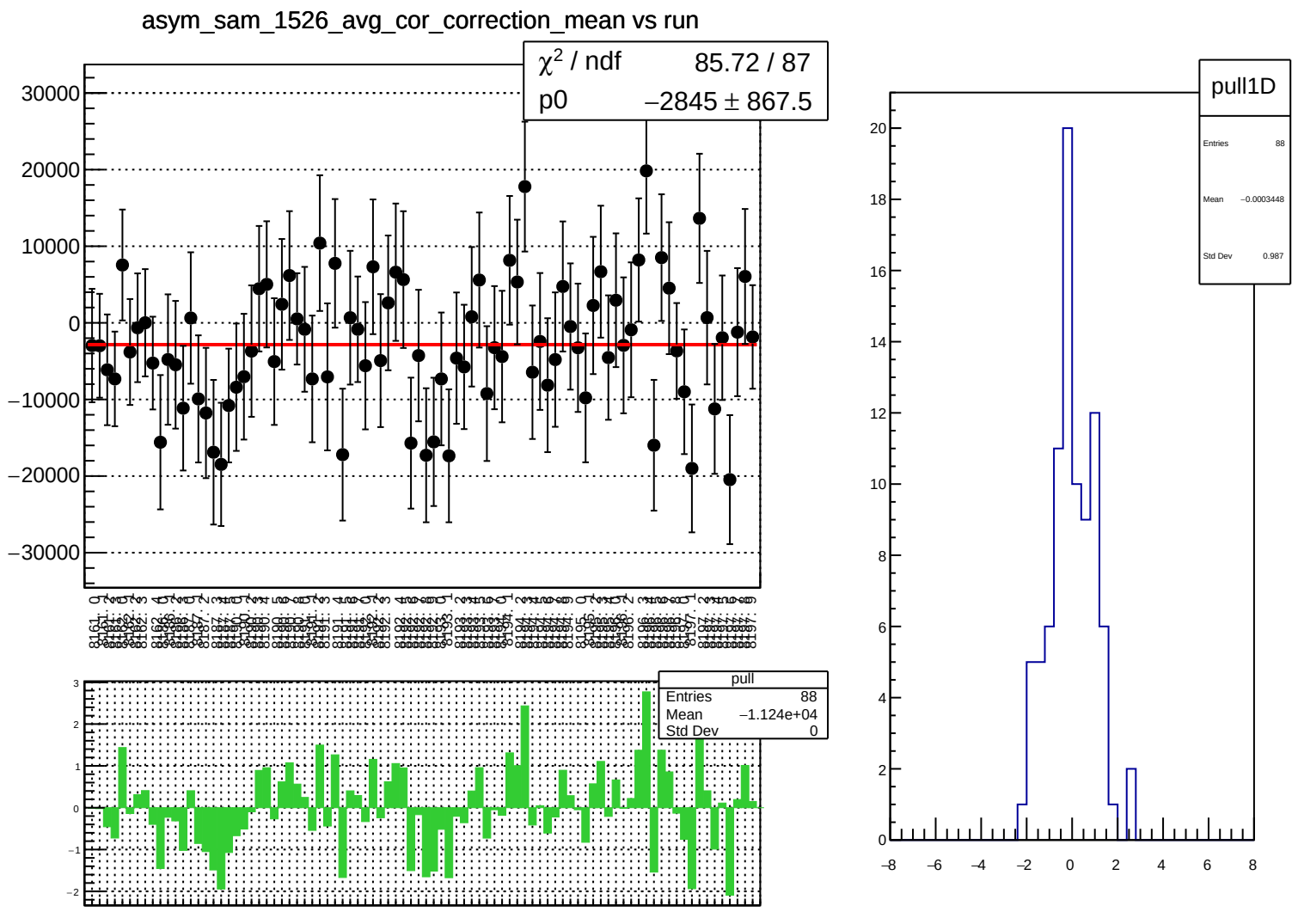

pull1D
Entries 88
Mean −0.0003455
Std Dev 0.987
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

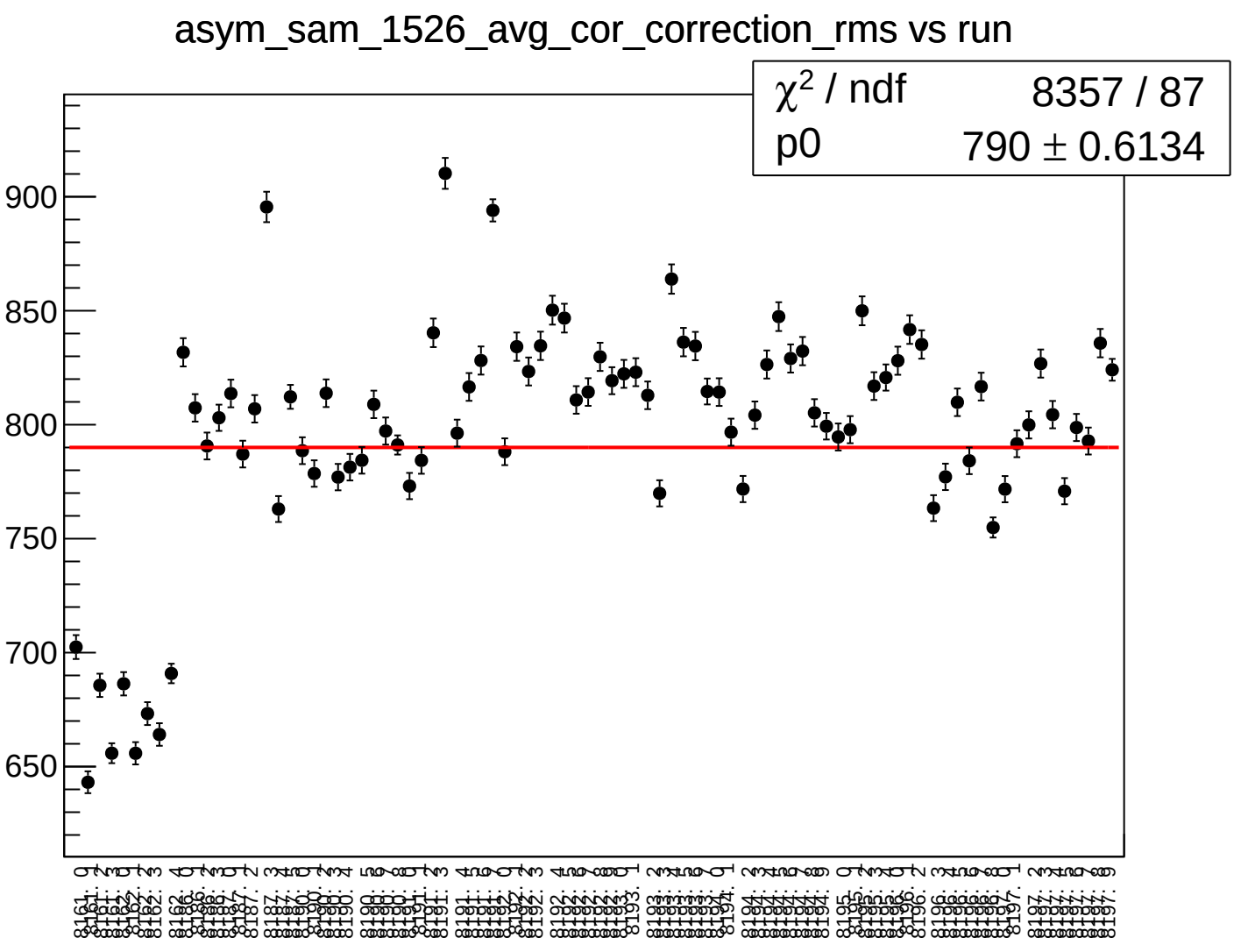

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 8357 / 87
p0 790 ± 0.6134
900
850
800
750
700
650

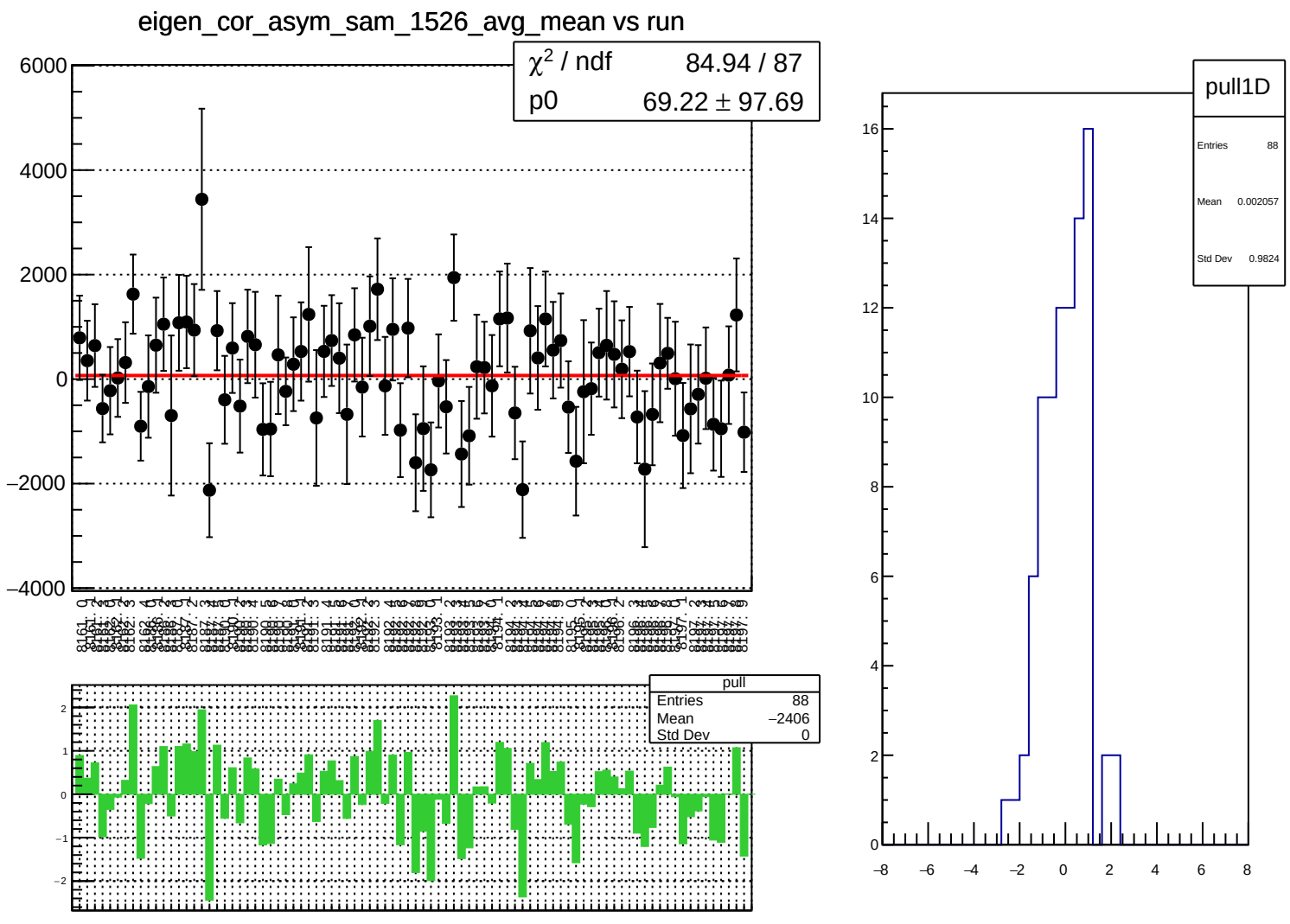

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 84.94 / 87
p0 69.22 ± 97.69
pull
Entries 88
Mean −2406
Std Dev 0

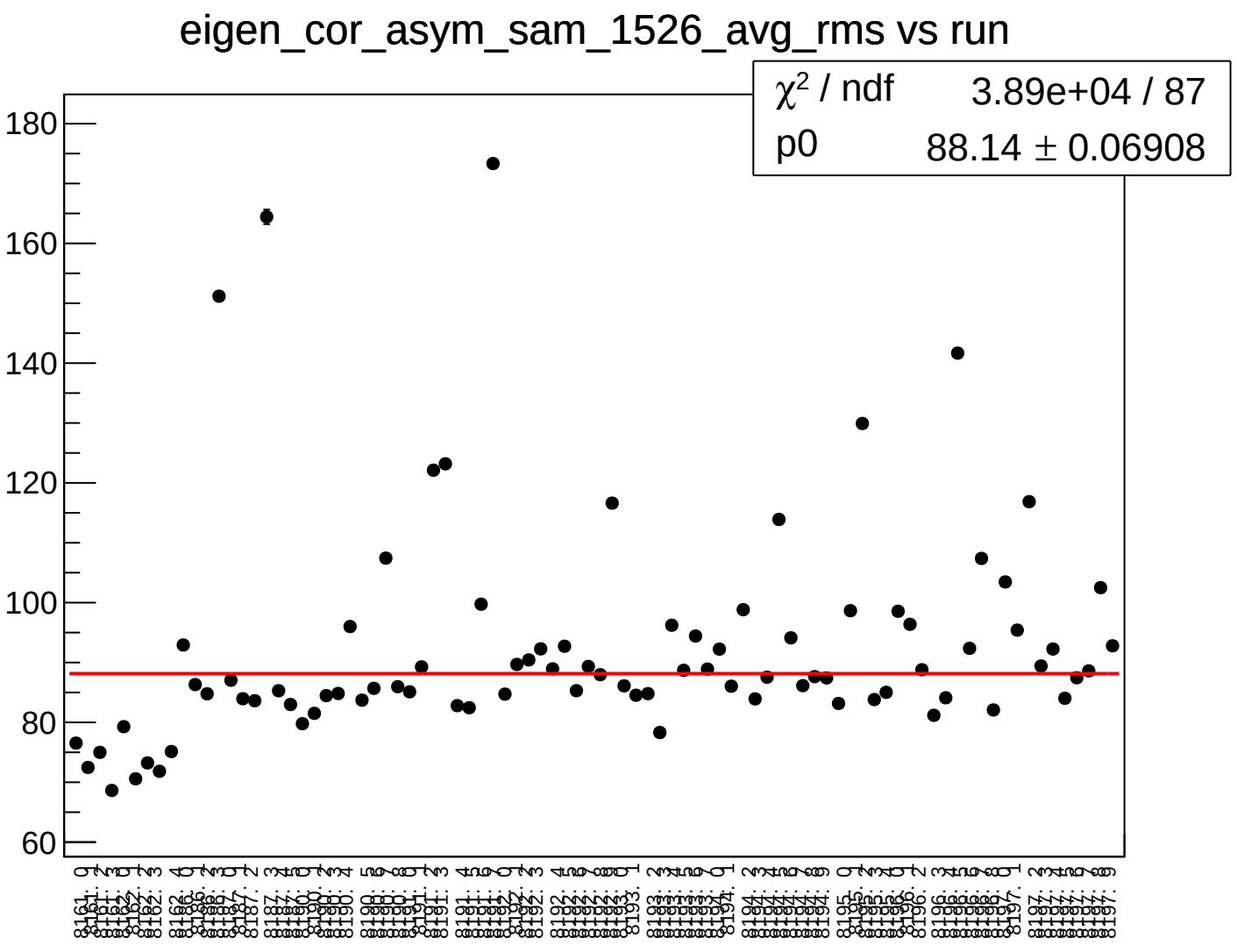

pull1D
Entries 88
Mean 0.002057
Std Dev 0.9824

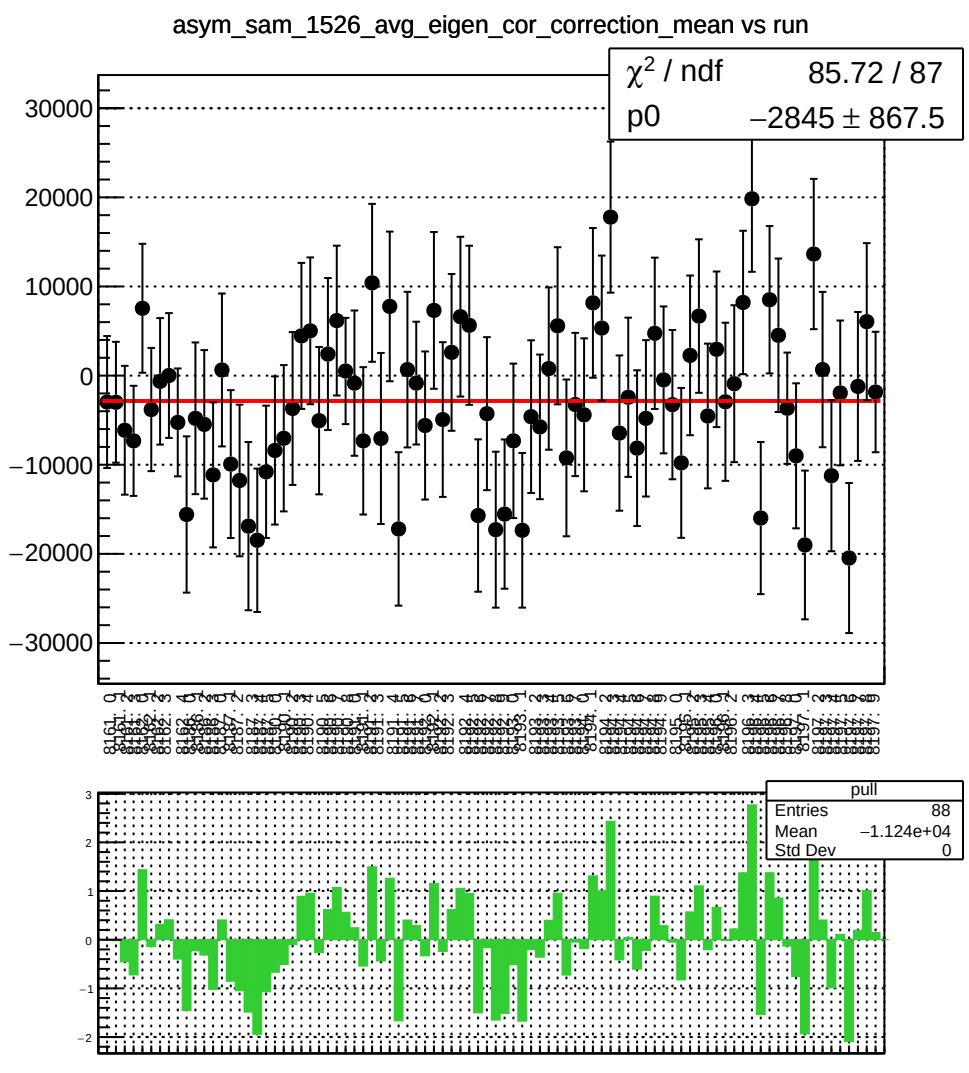

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.89e+04 / 87
p0 88.14 ± 0.06908
180
160
140
120
100
80
60

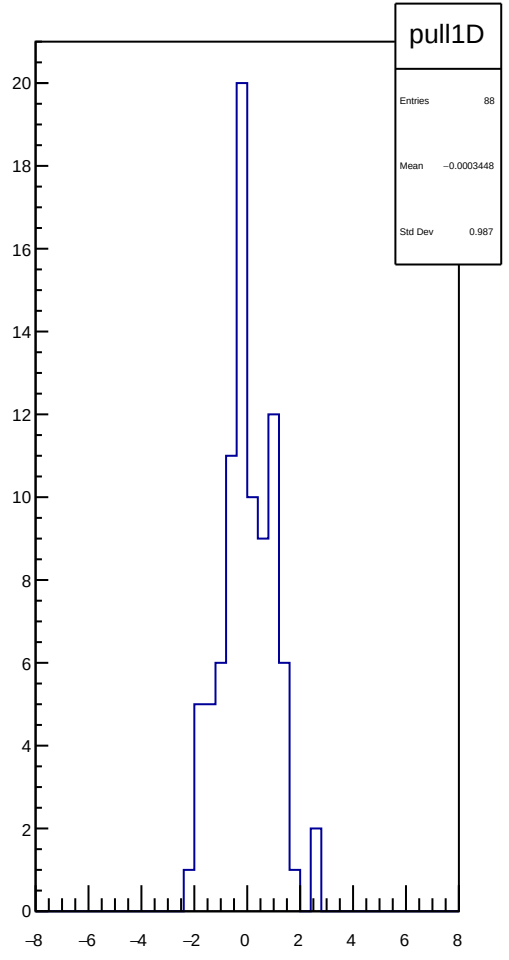

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 85.72 / 87
p0 −2845 ± 867.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1.124e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0003448
Std Dev 0.987
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

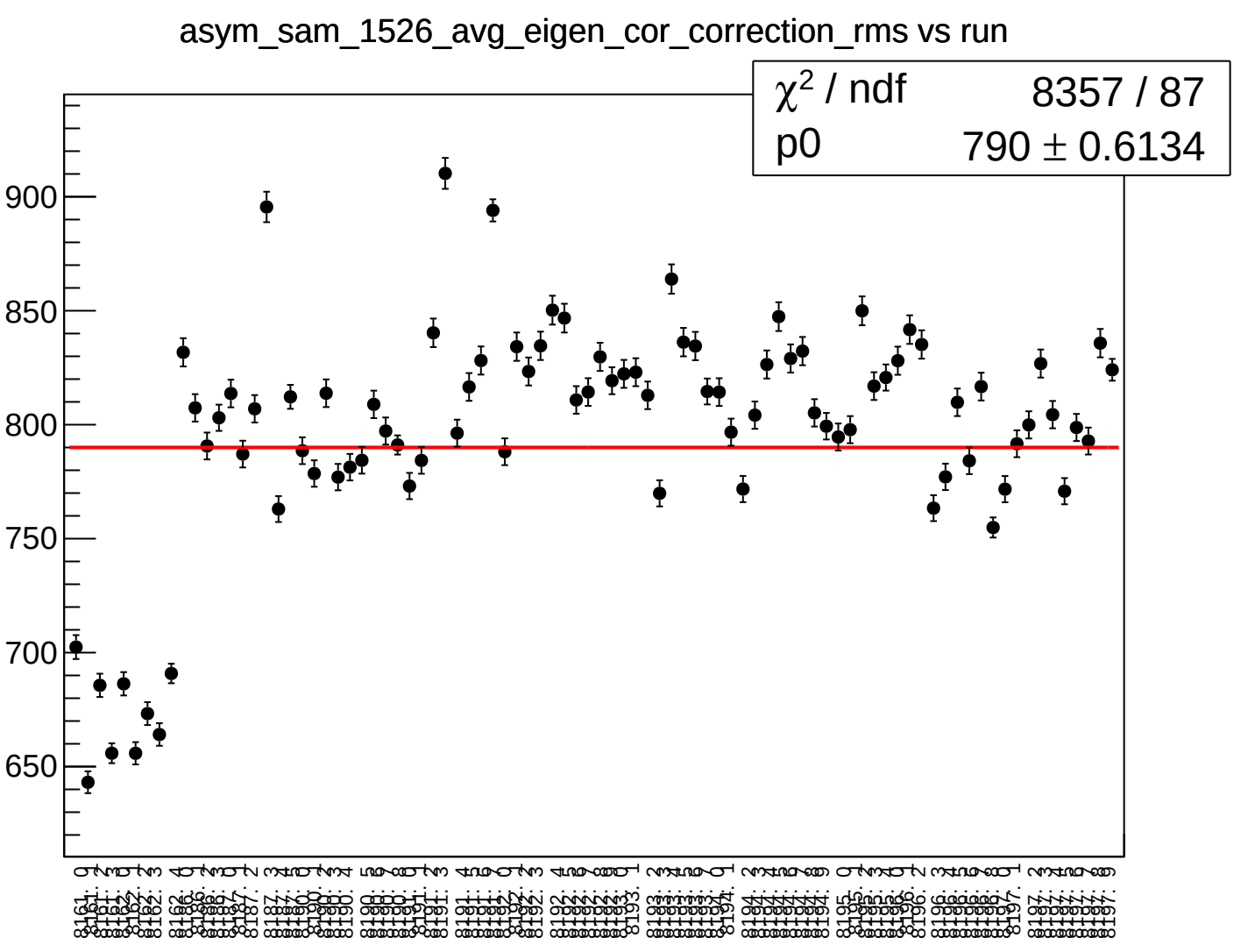

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 8357 / 87
p0 790 ± 0.6134
900
850
800
750
700
650

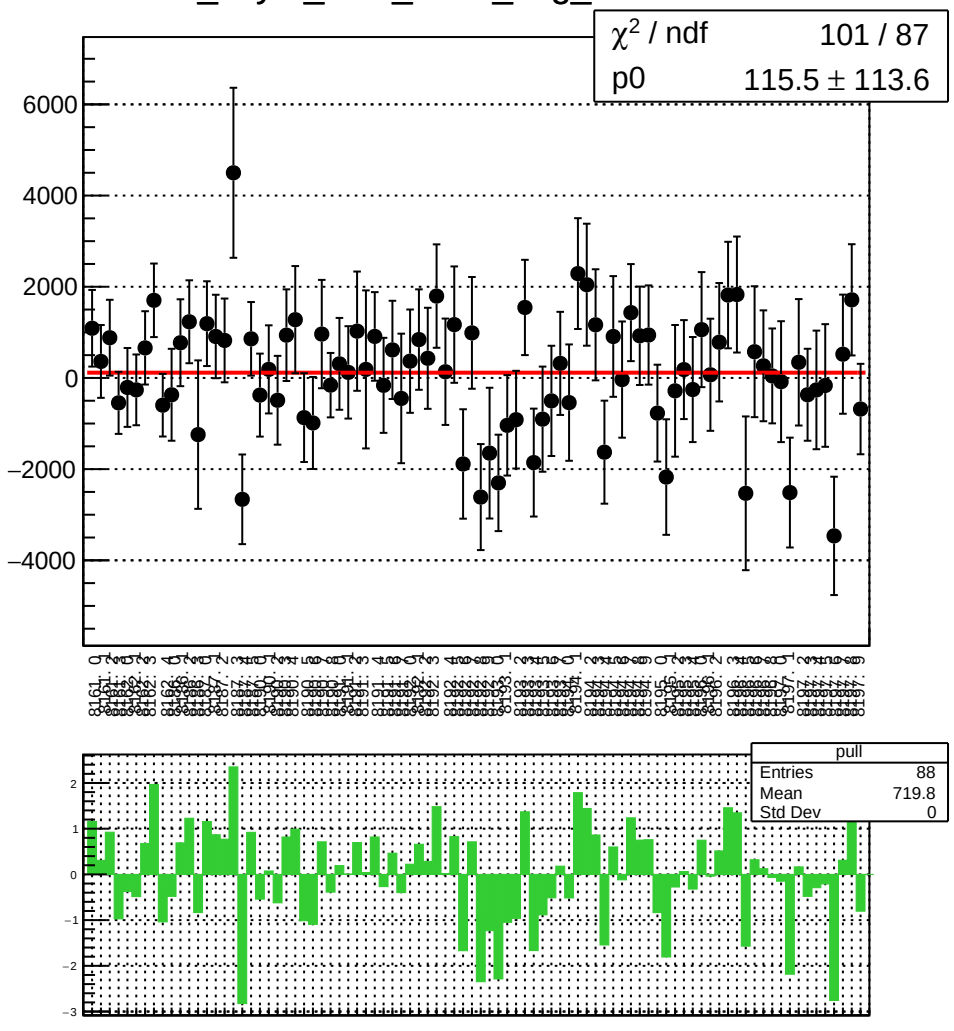

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 84.94 / 87
p0 69.22 ± 97.69
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −2406
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002057
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

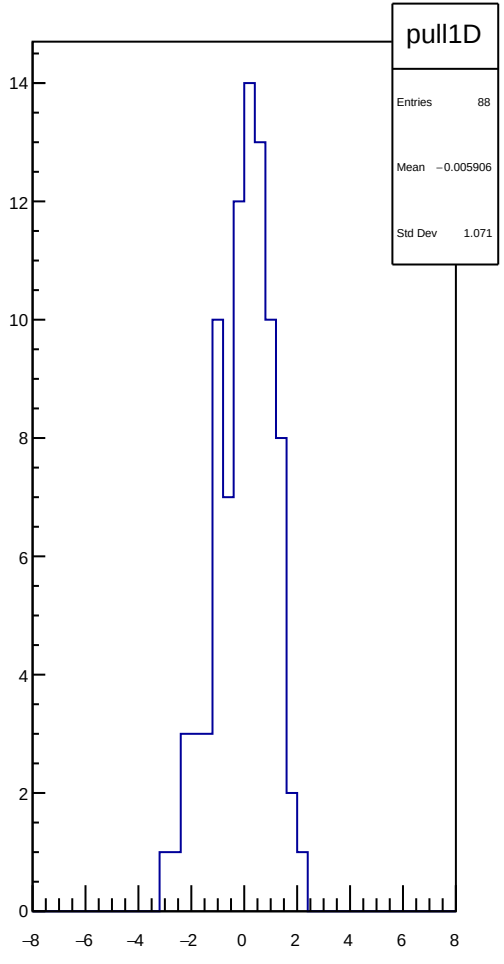

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.89e+04 / 87
p0 88.14 ± 0.06908
180
160
140
120
100
80
60

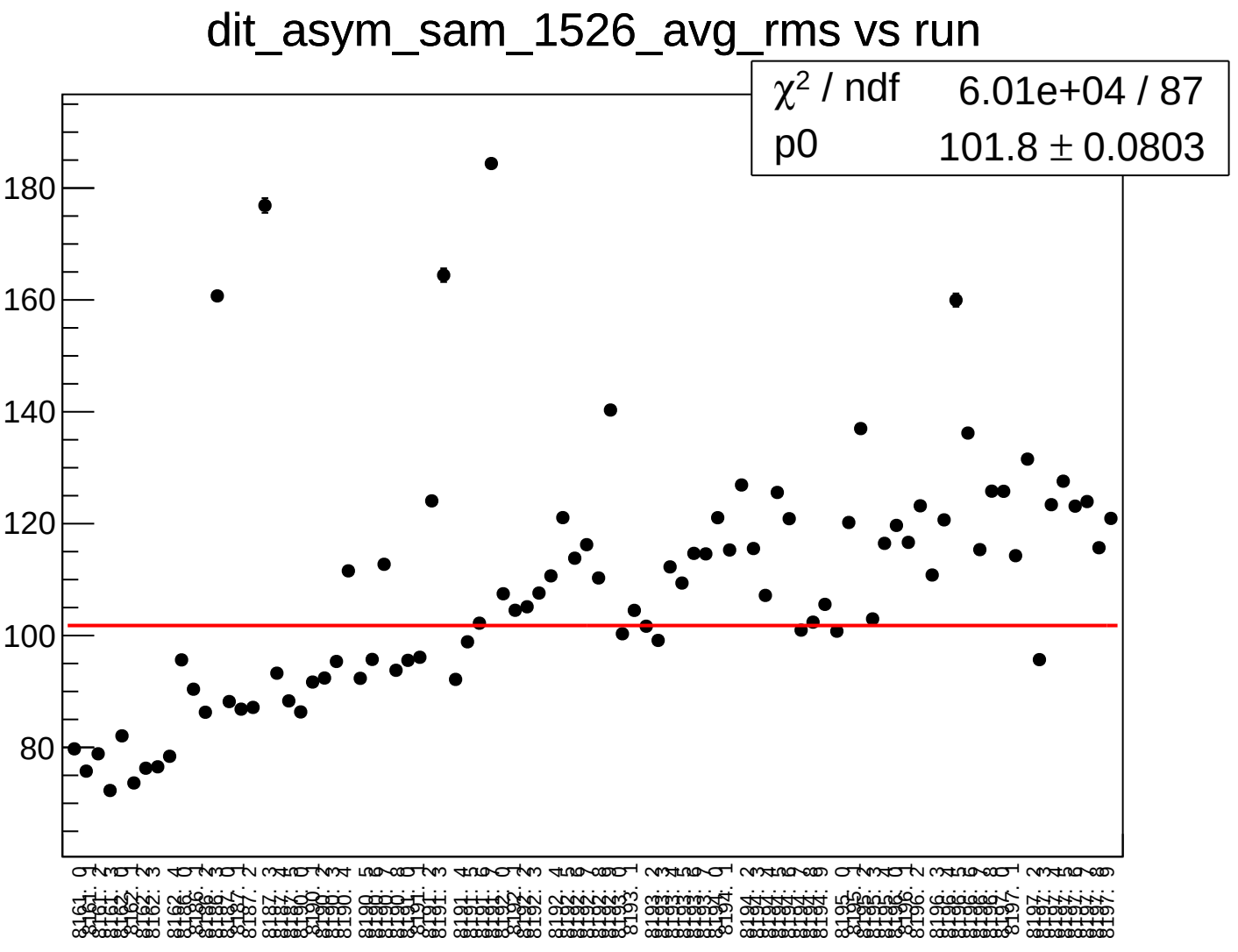

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.72 / 87
p0 −2845 ± 867.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1.124e+04
Std Dev 0
3
2
1
0
−1
−2

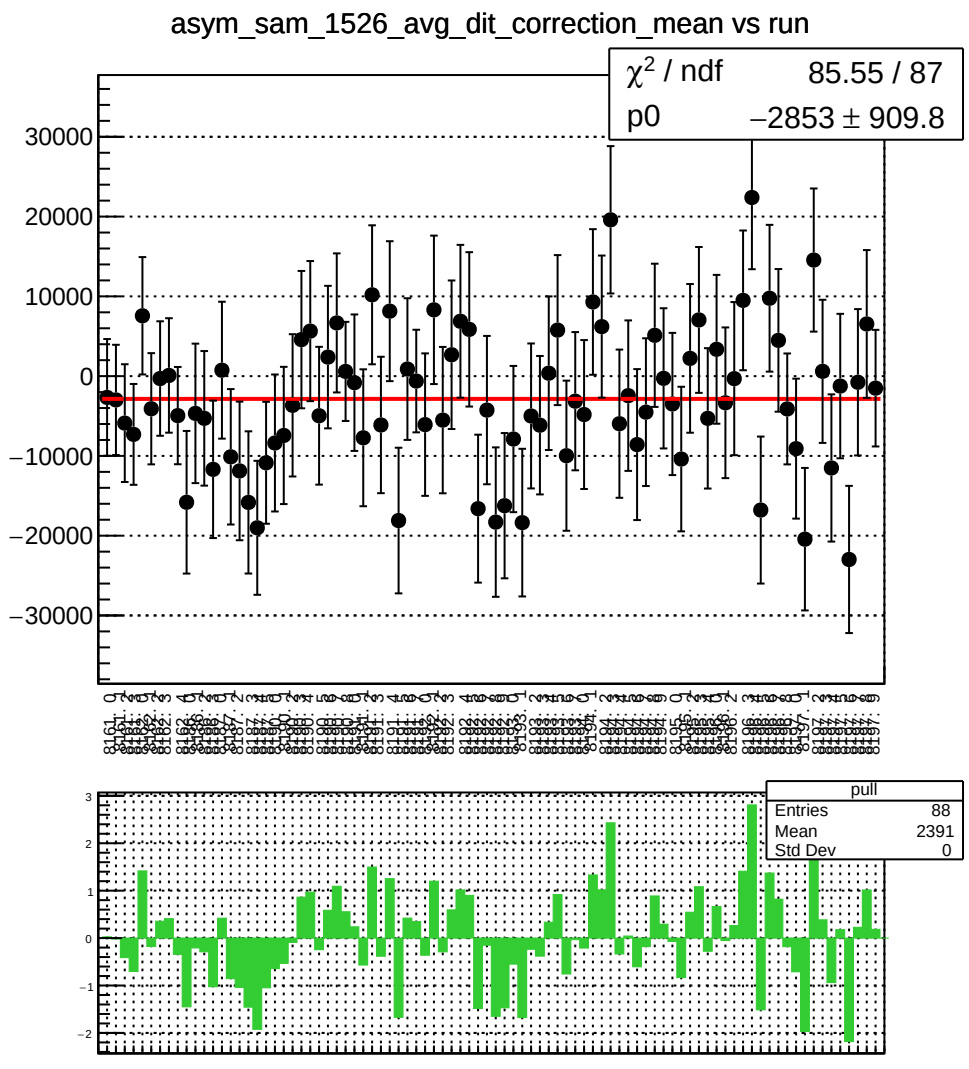

pull1D
Entries 88
Mean −0.0003448
Std Dev 0.987
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

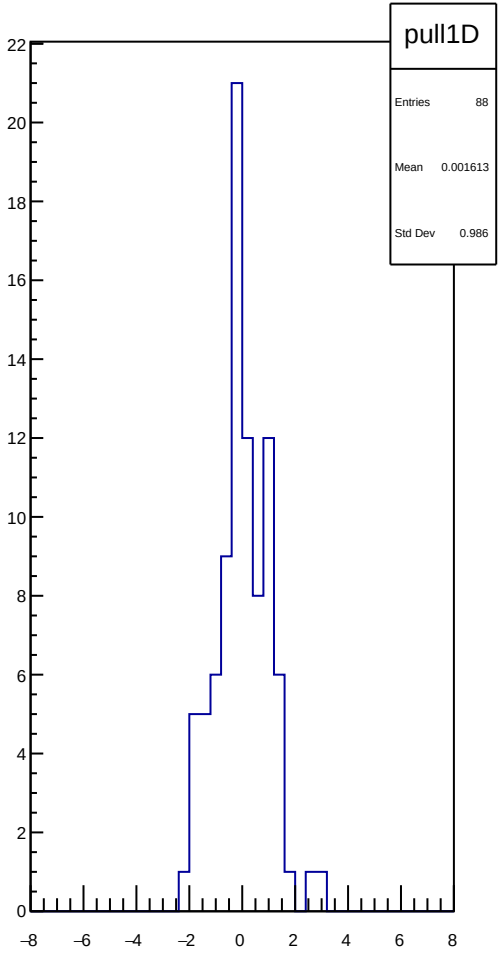

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 8357 / 87
p0 790 ± 0.6134
900
850
800
750
700
650

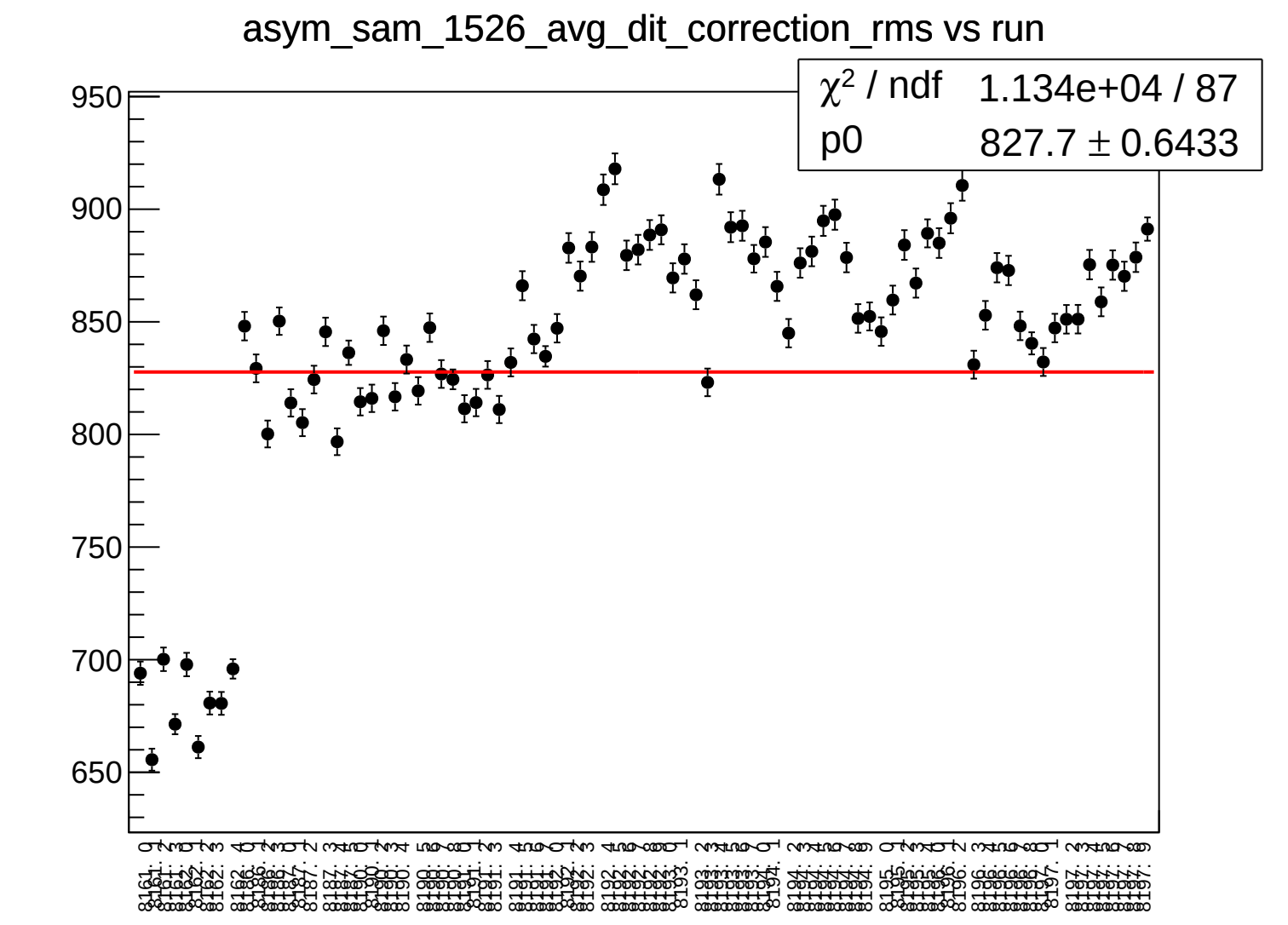

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 101 / 87
p0 115.5 ± 113.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 719.8
Std Dev 0
2
1
0
−1
−2
−3

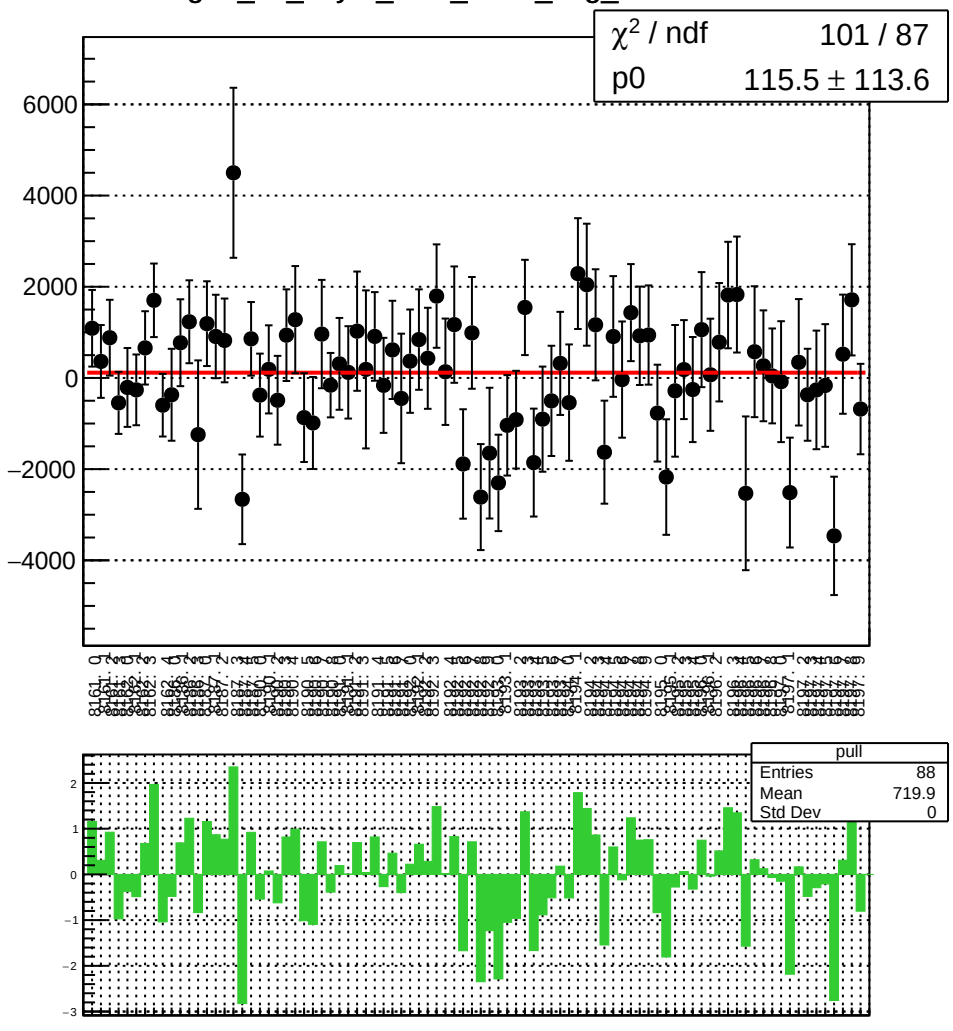

pull1D
Entries 88
Mean −0.005906
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

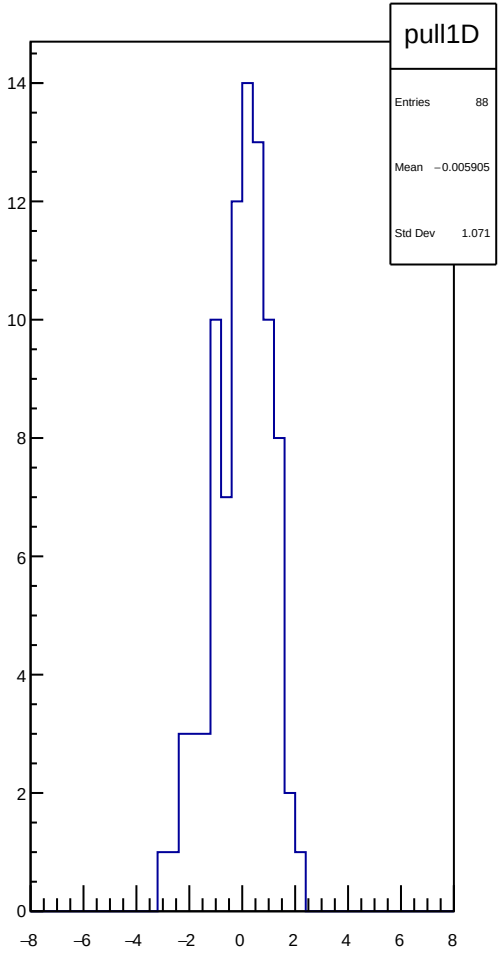

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 6.01e+04 / 87
p0 101.8 ± 0.0803
180
160
140
120
100
80

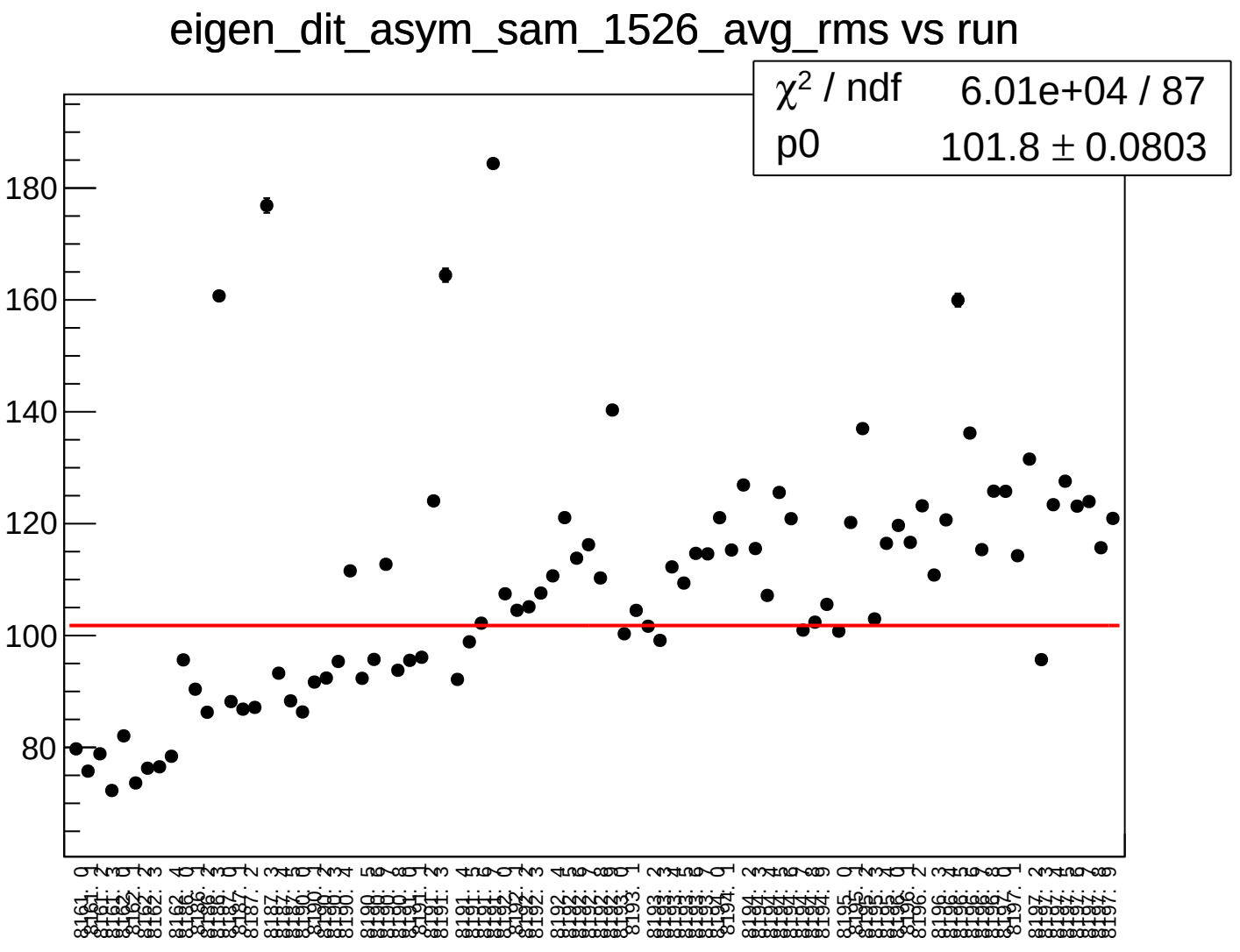

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 85.55 / 87
p0 −2853 ± 909.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 2391
Std Dev 0
3
2
1
0
−1
−2

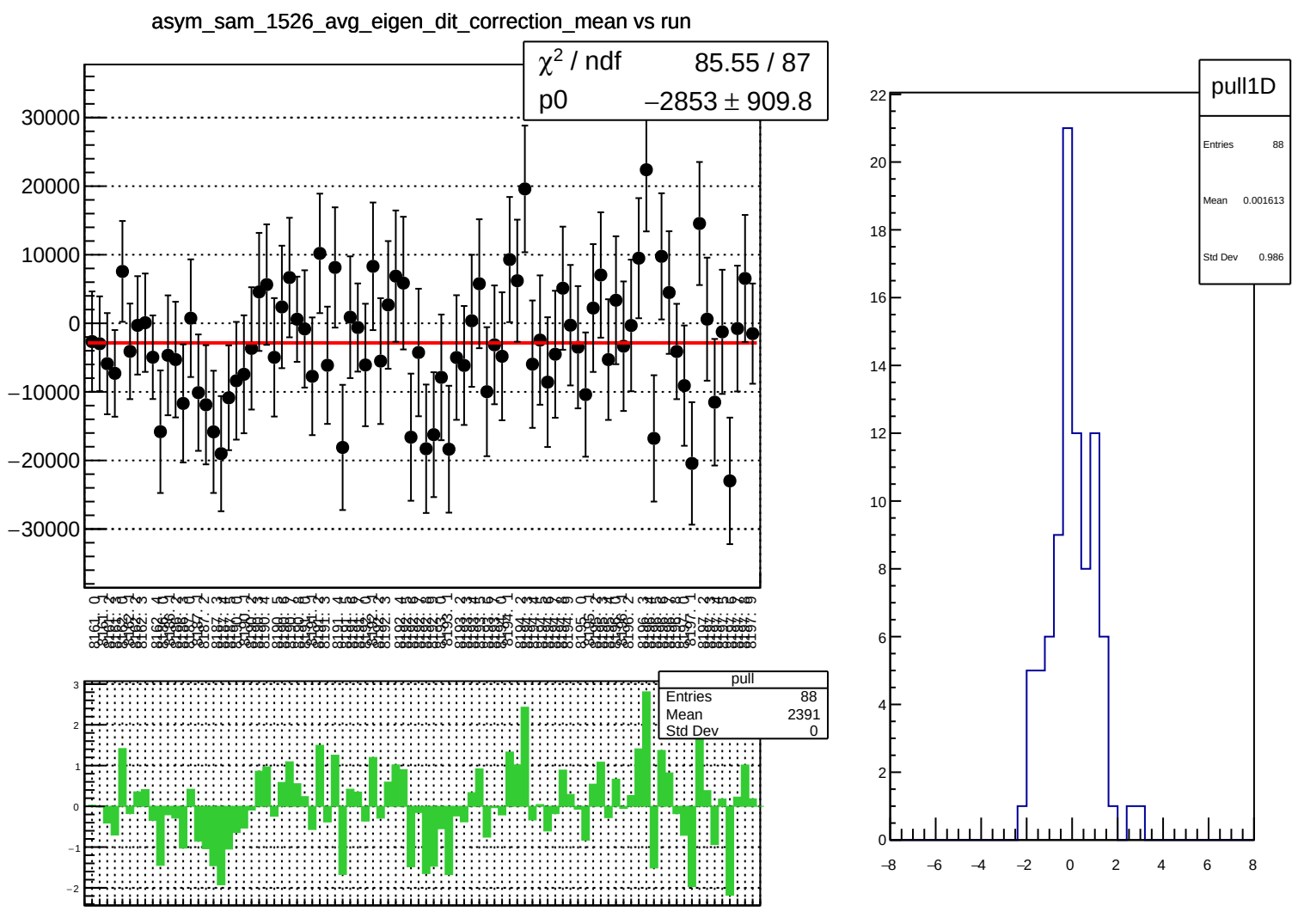

pull1D
Entries 88
Mean 0.001613
Std Dev 0.986
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

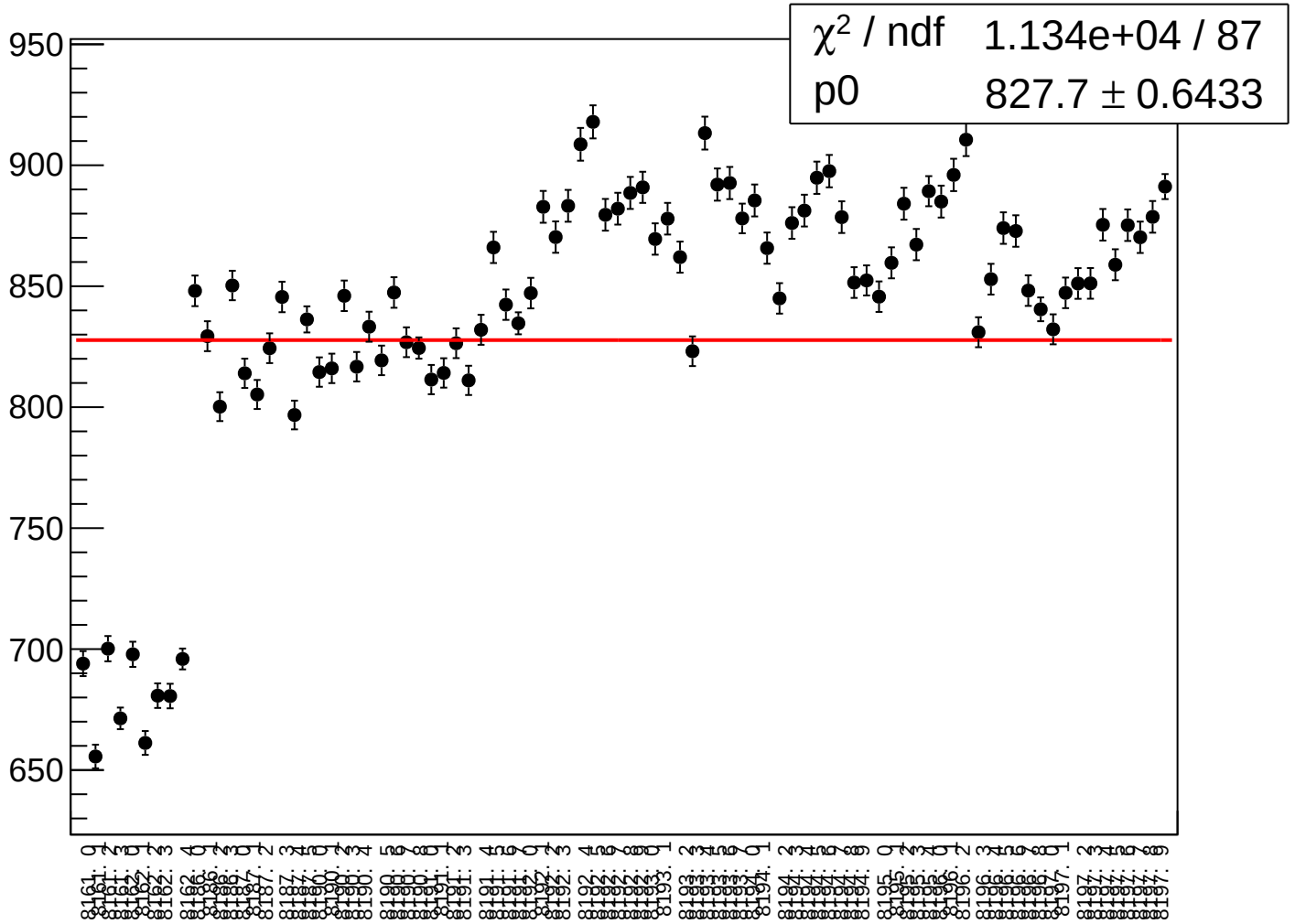

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.134e+04 / 87
p0 827.7 ± 0.6433
950
900
850
800
750
700
650

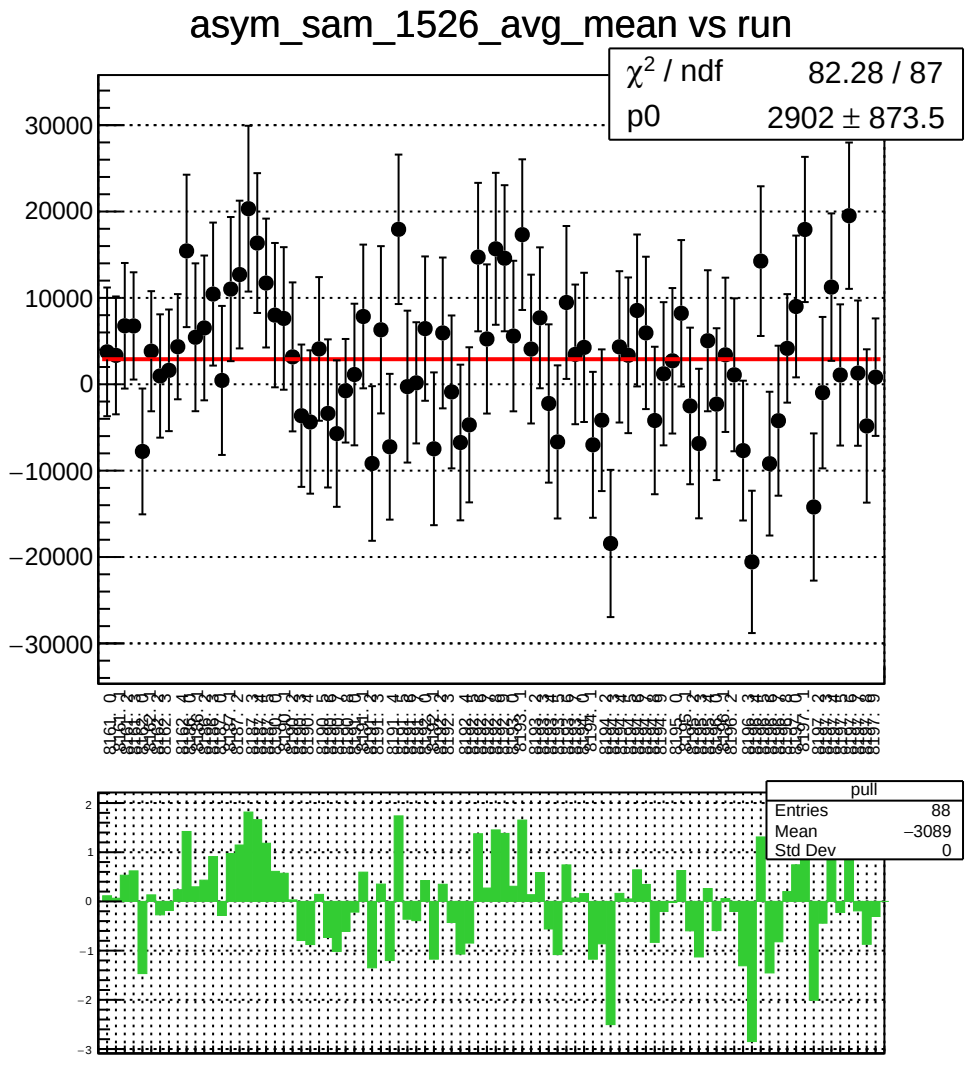

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 101 / 87
p0 115.5 ± 113.6
pull
Entries 88
Mean 719.9
Std Dev 0

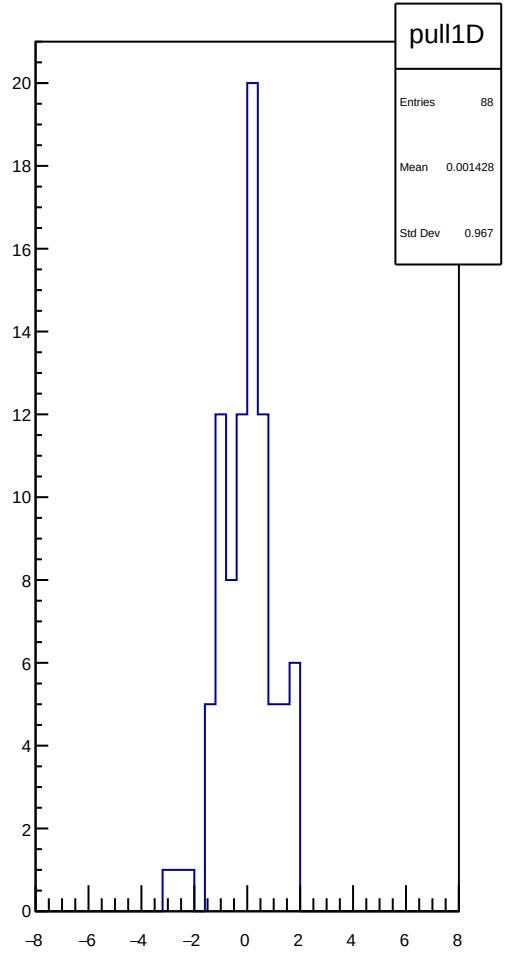

pull1D
Entries 88
Mean −0.005905
Std Dev 1.071

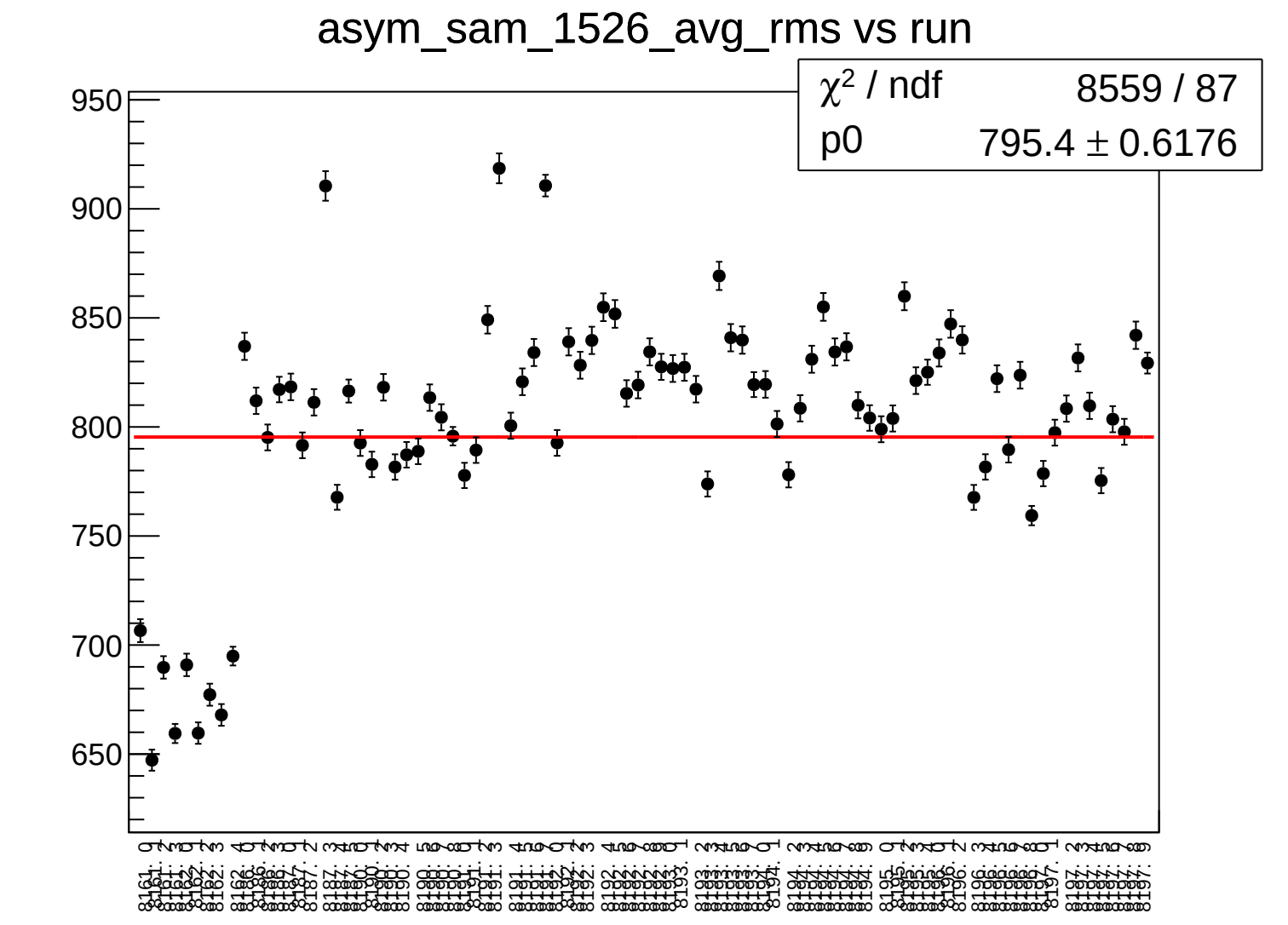

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 6.01e+04 / 87
p0 101.8 ± 0.0803
180
160
140
120
100
80

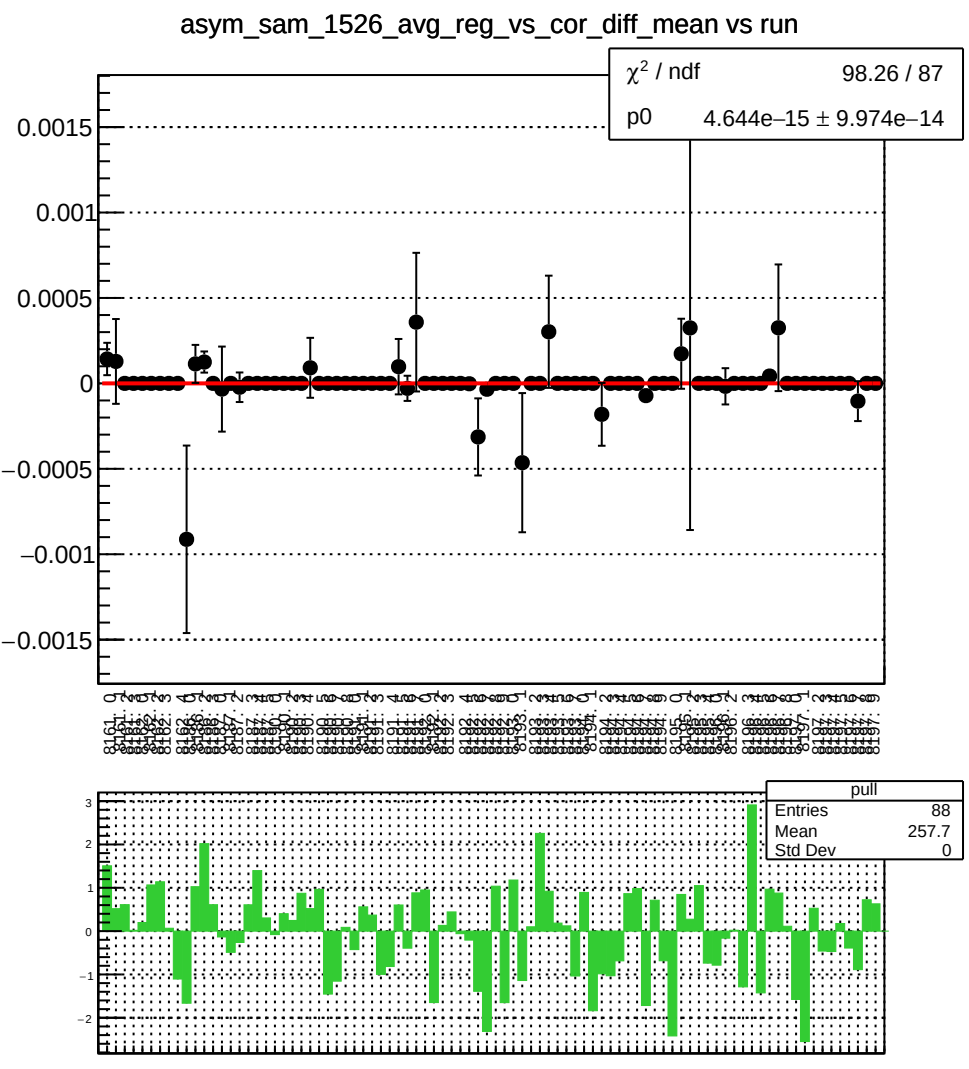

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.55 / 87
p0 −2853 ± 909.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 2391
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001613
Std Dev 0.986
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

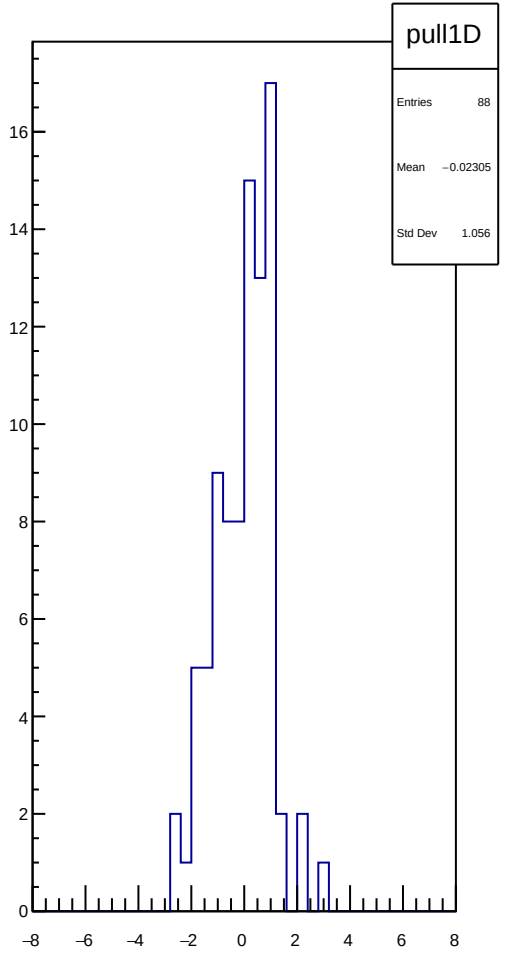

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.134e+04 / 87
p0 827.7 ± 0.6433
950
900
850
800
750
700
650

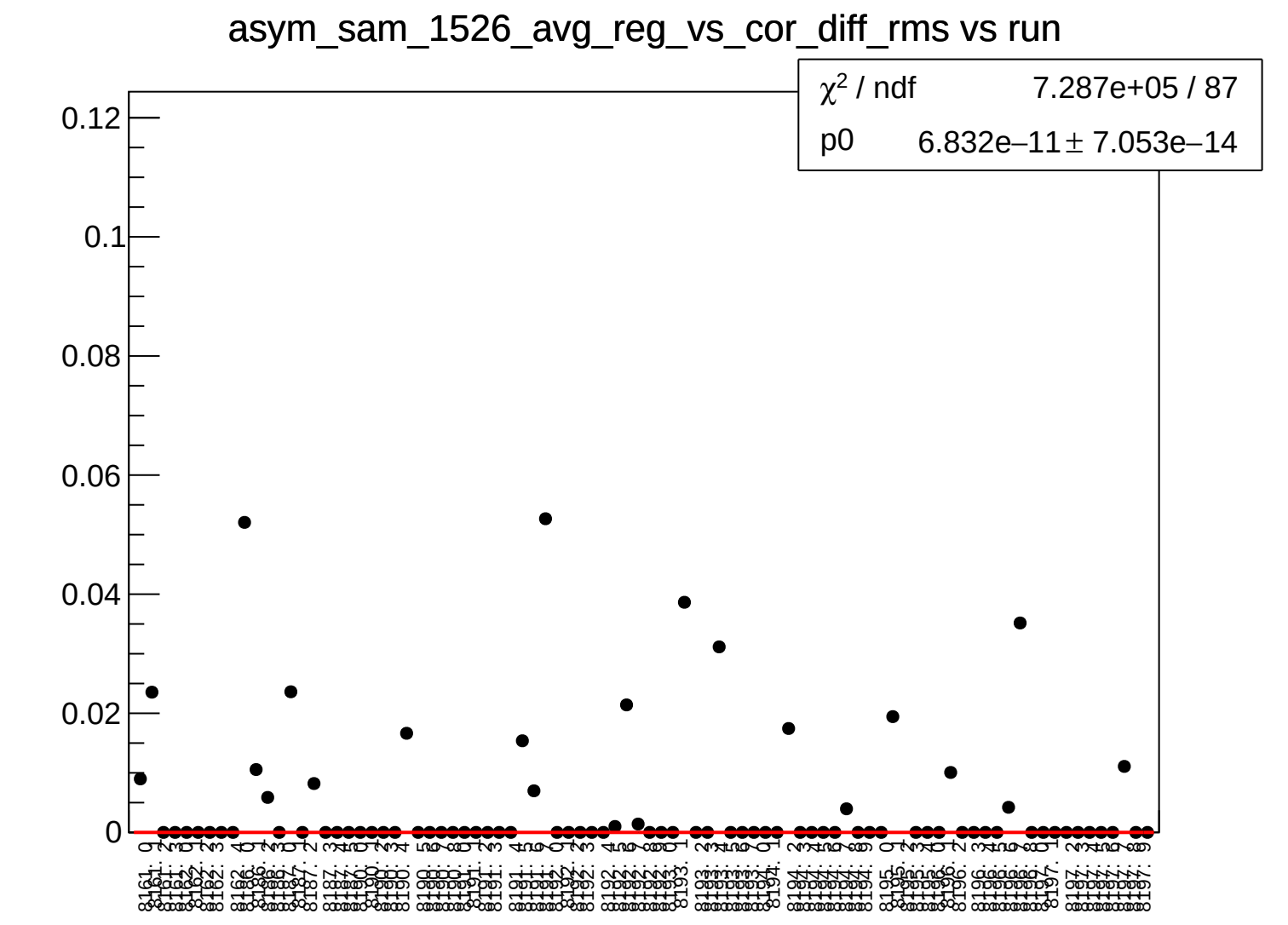

asym_sam_1526_avg_mean vs run
χ² / ndf 82.28 / 87
p0 2902 ± 873.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −3089
Std Dev 0
2
1
0
−1
−2
−3

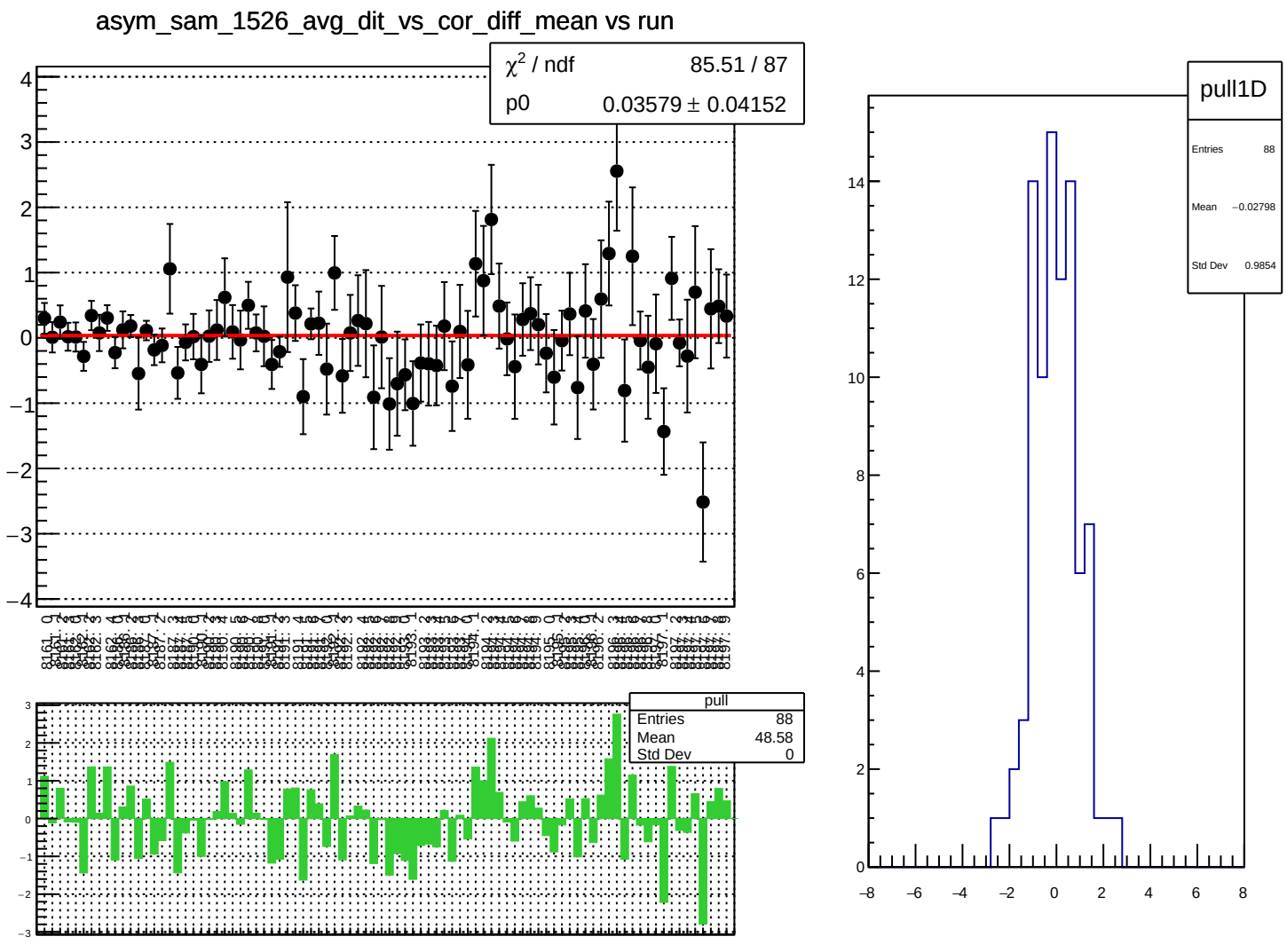

pull1D
Entries 88
Mean 0.001428
Std Dev 0.967
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

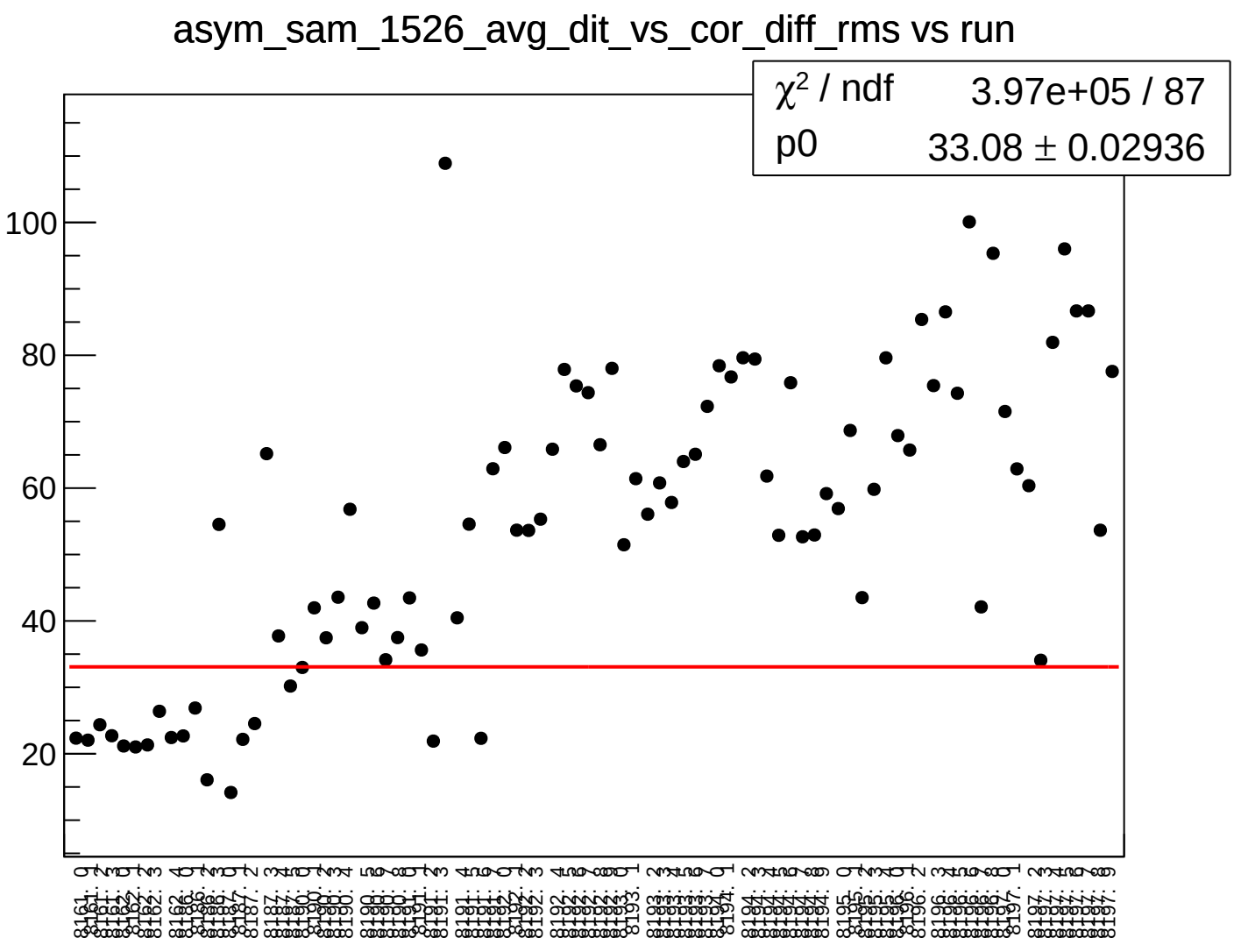

asym_sam_1526_avg_rms vs run
χ² / ndf 8559 / 87
p0 795.4 ± 0.6176
950
900
850
800
750
700
650

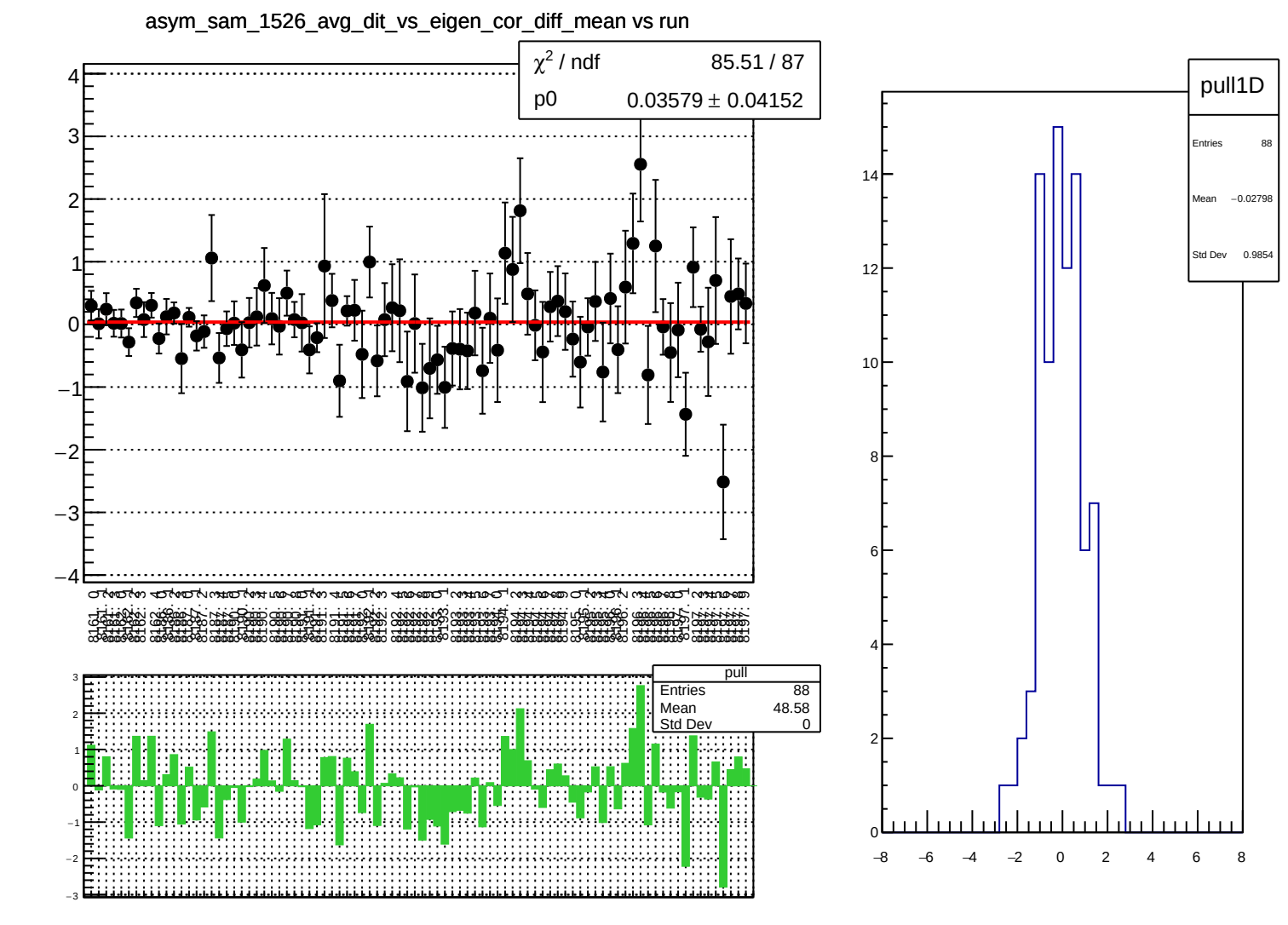

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.26 / 87
p0 4.644e−15 ± 9.974e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 257.7
Std Dev 0
3
2
1
0
−1
−2

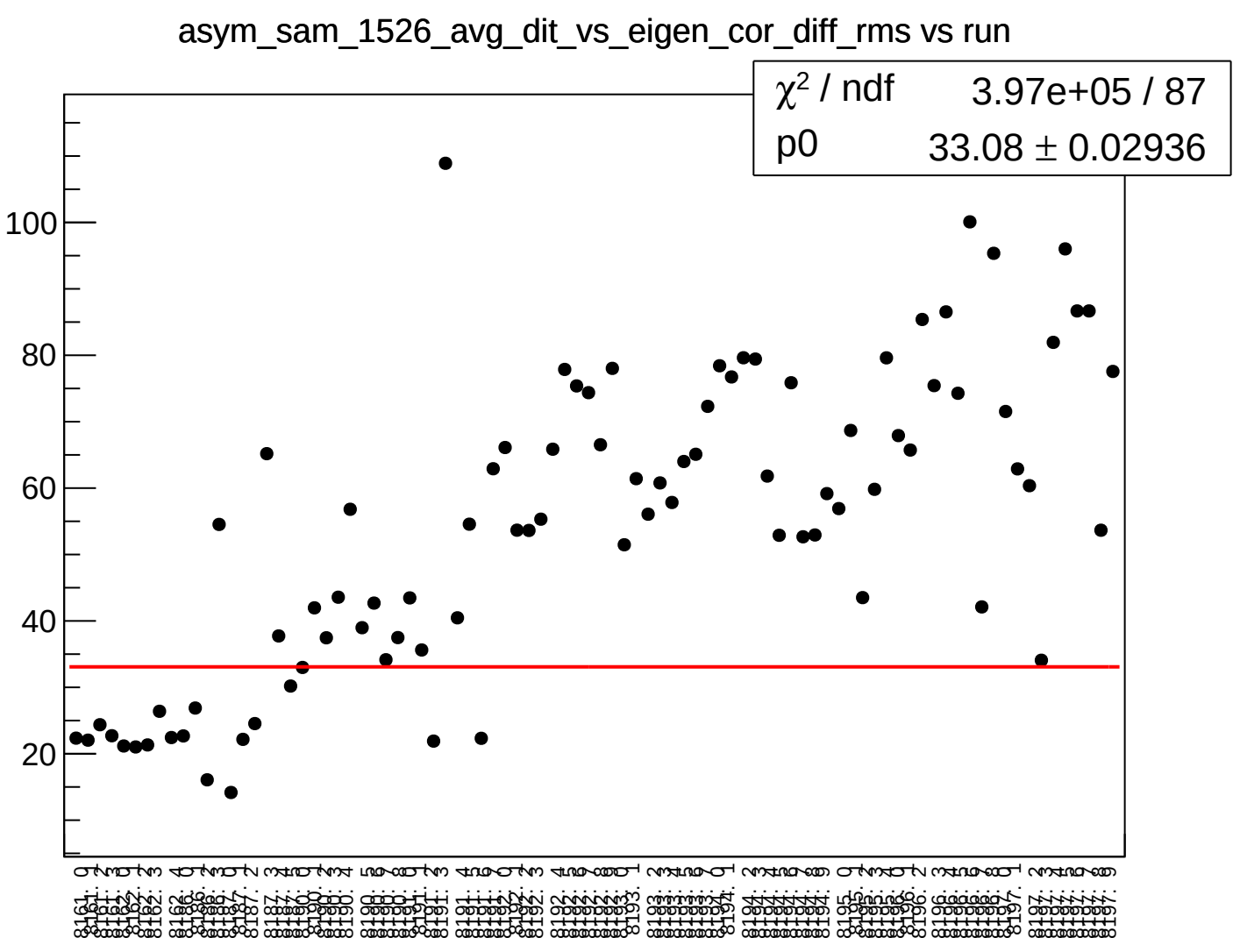

pull1D
Entries 88
Mean −0.02305
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

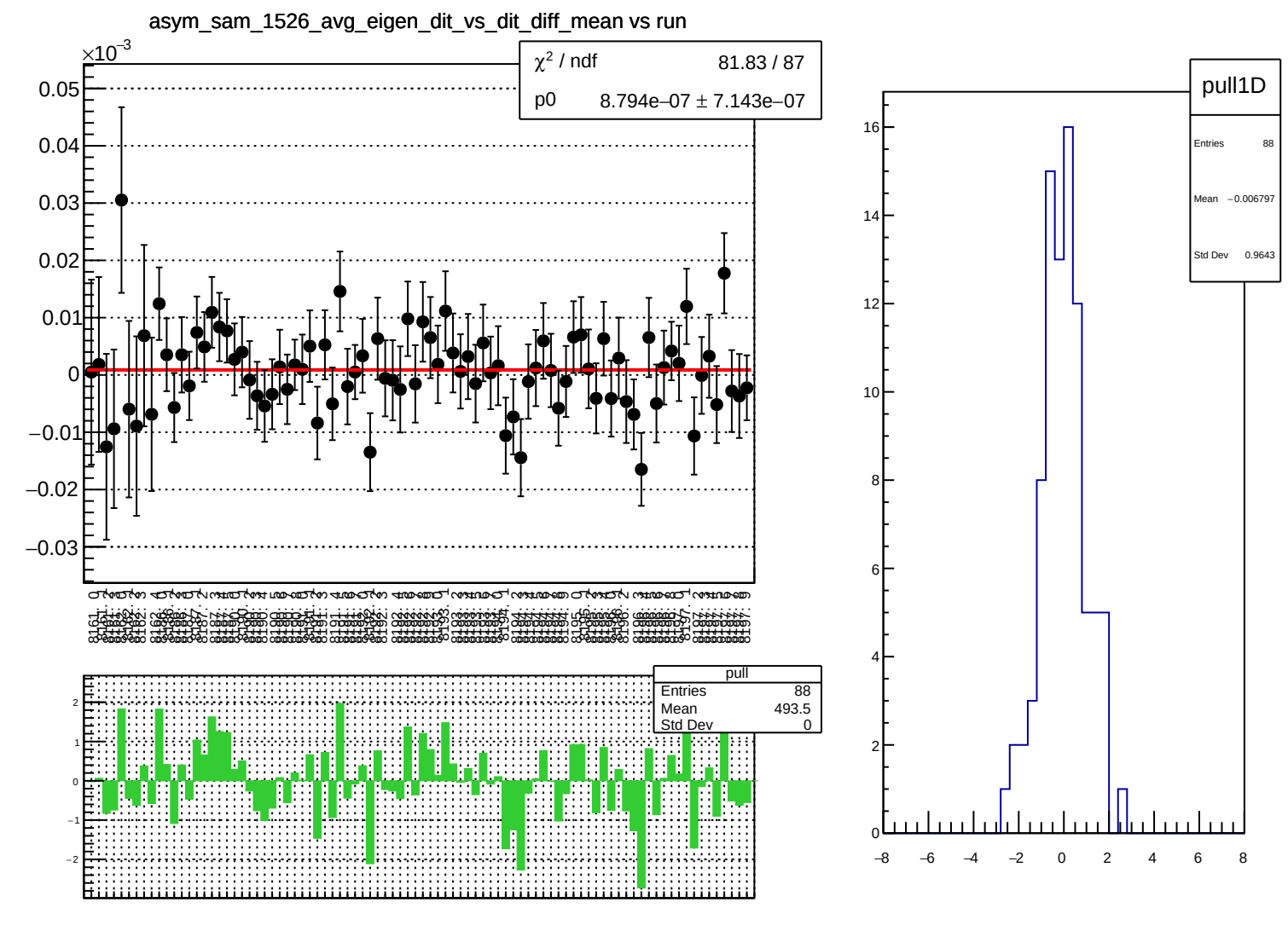

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.287e+05 / 87
p0 6.832e−11 ± 7.053e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

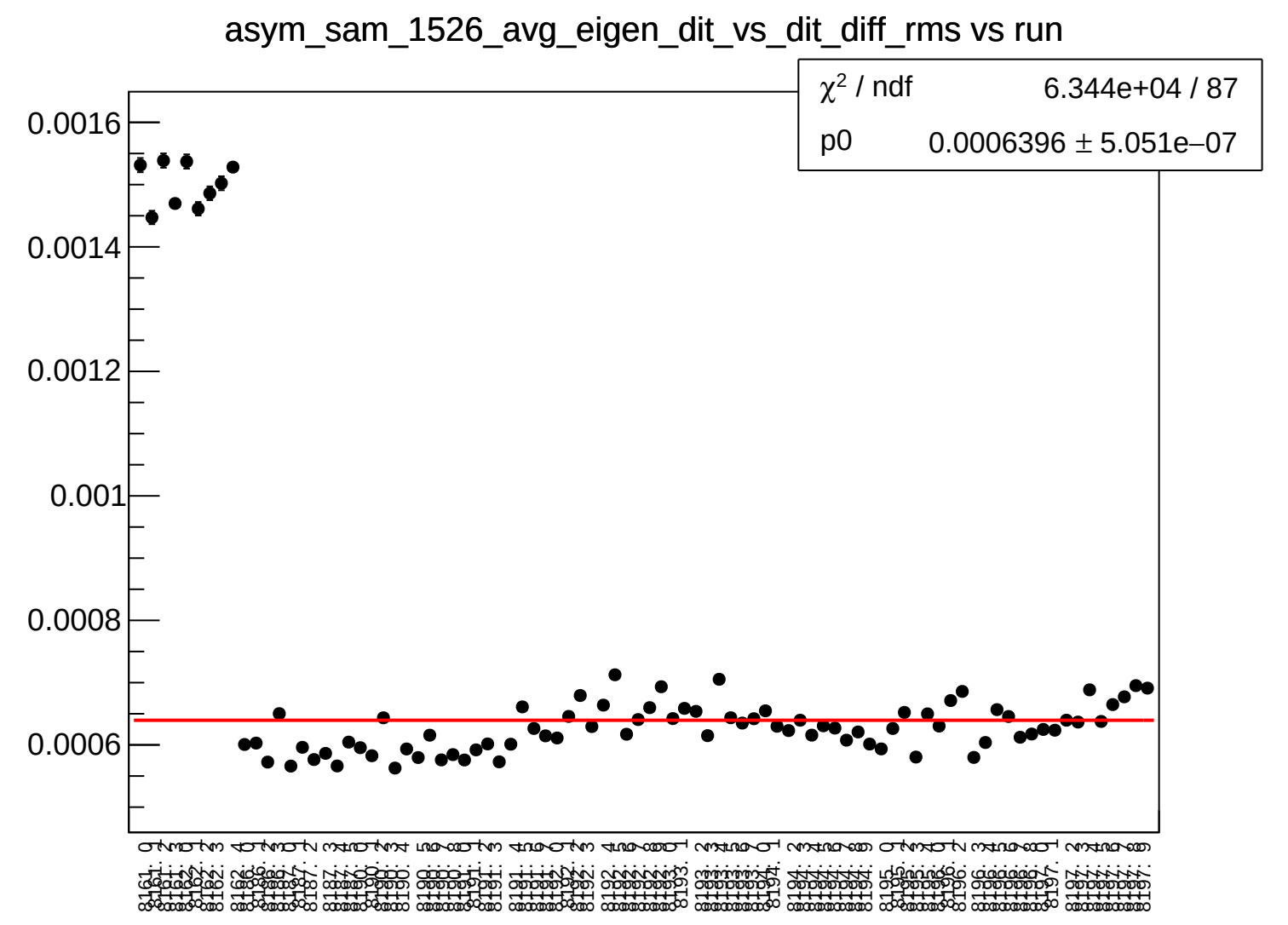

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.51 / 87
p0 0.03579 ± 0.04152
pull
Entries 88
Mean 48.58
Std Dev 0
pull1D
Entries 88
Mean −0.02798
Std Dev 0.9854

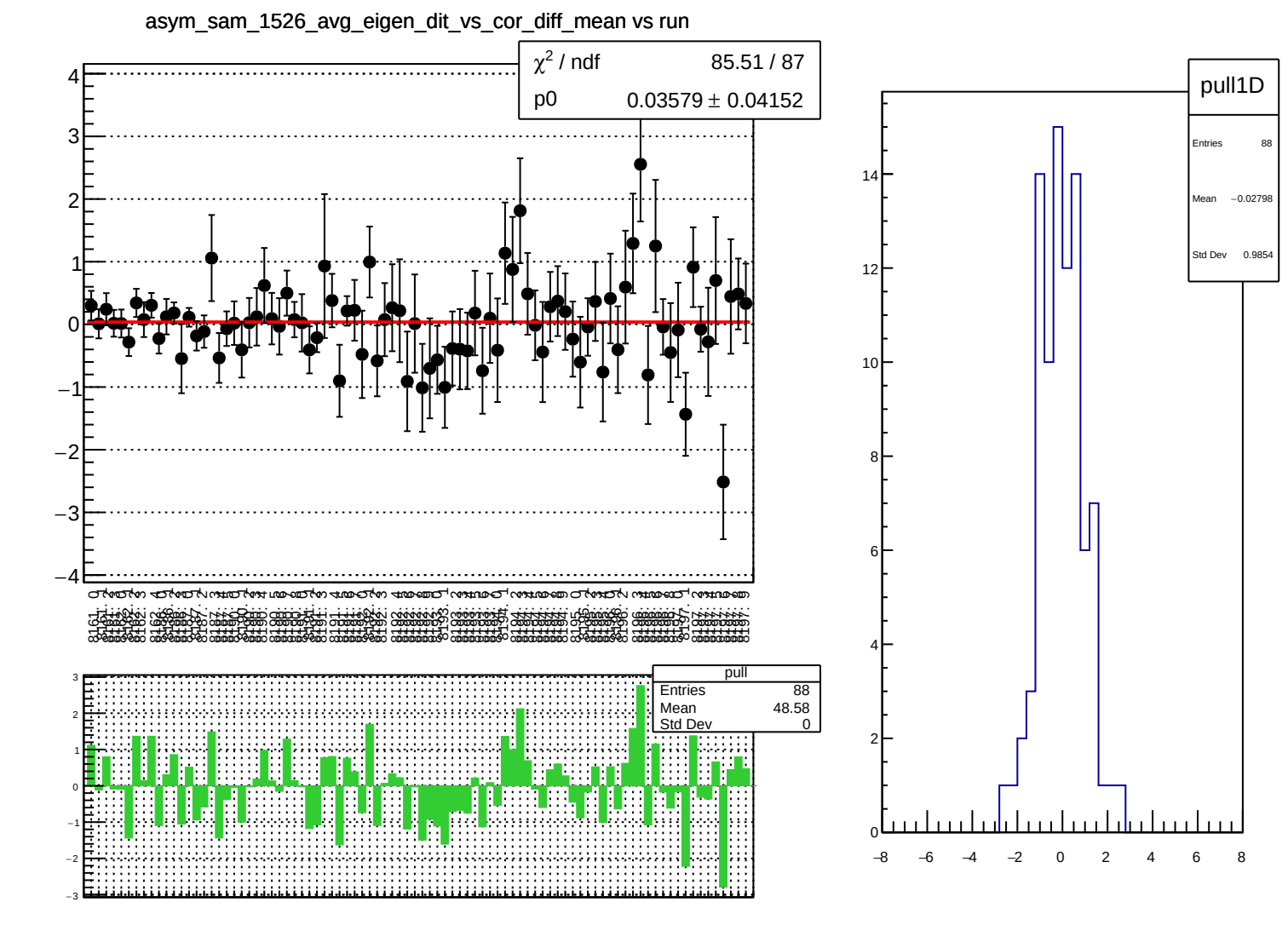

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.97e+05 / 87
p0 33.08 ± 0.02936
100
80
60
40
20

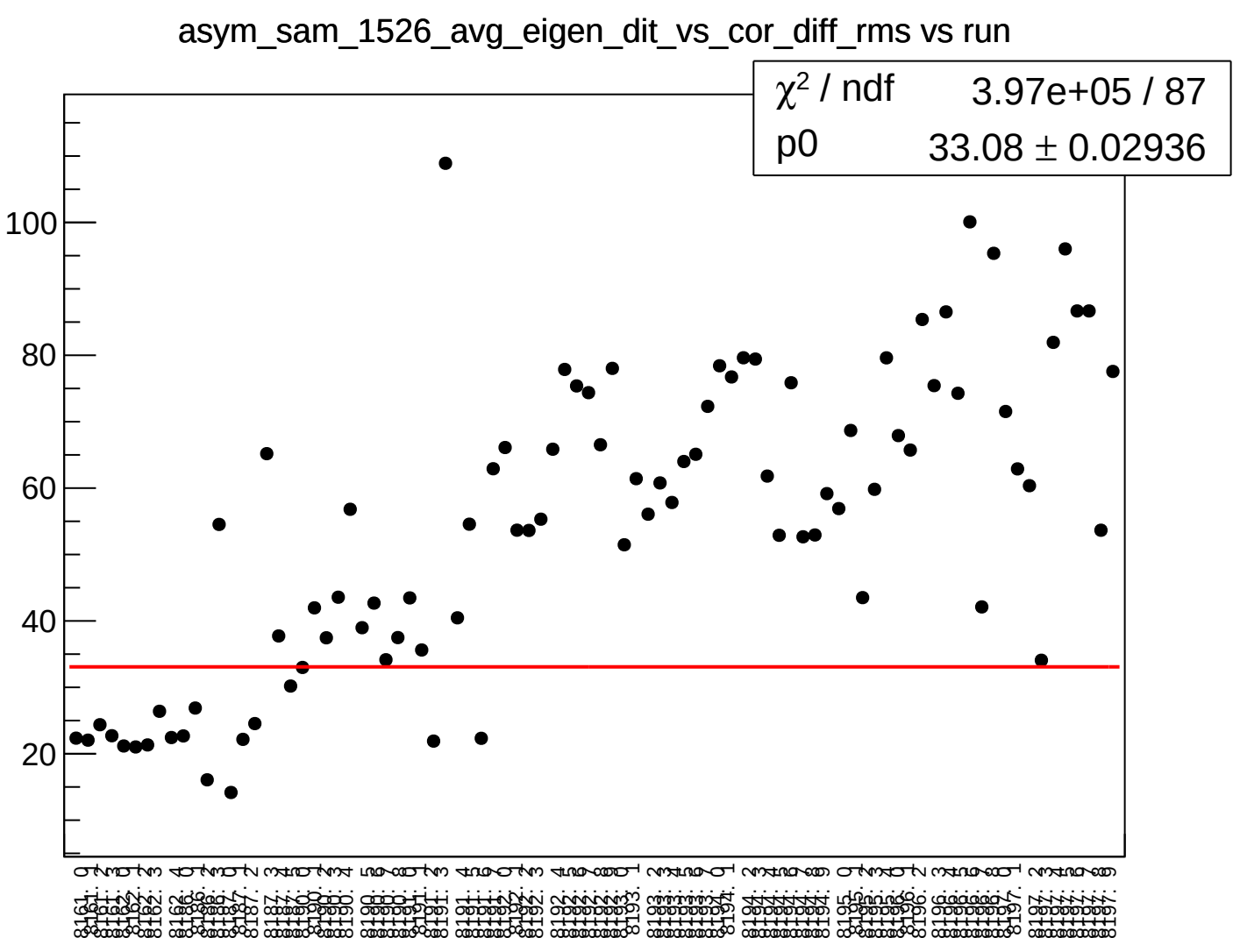

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.51 / 87
p0 0.03579 ± 0.04152
pull
Entries 88
Mean 48.58
Std Dev 0
pull1D
Entries 88
Mean −0.02798
Std Dev 0.9854

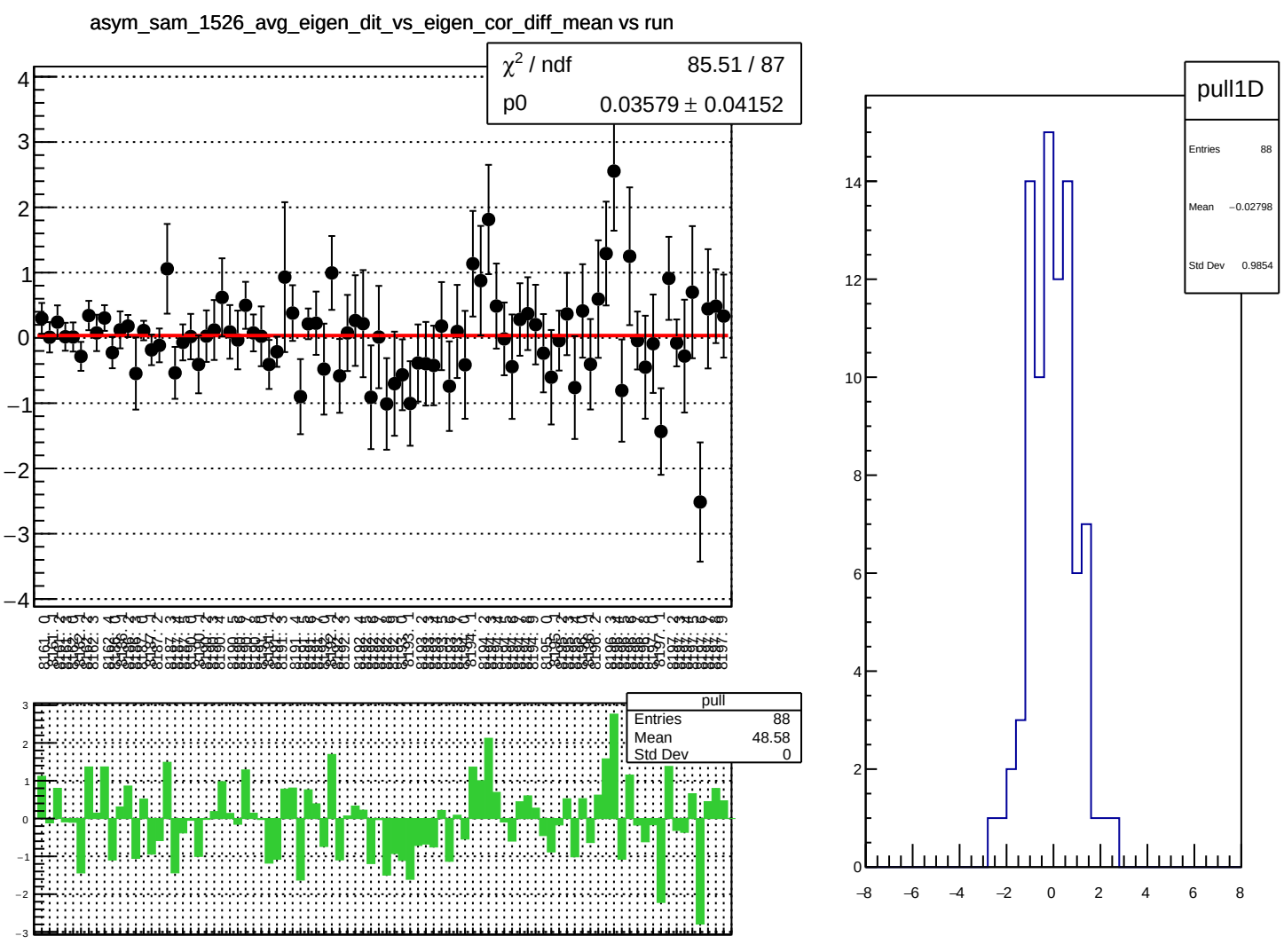

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.97e+05 / 87
p0 33.08 ± 0.02936
100
80
60
40
20

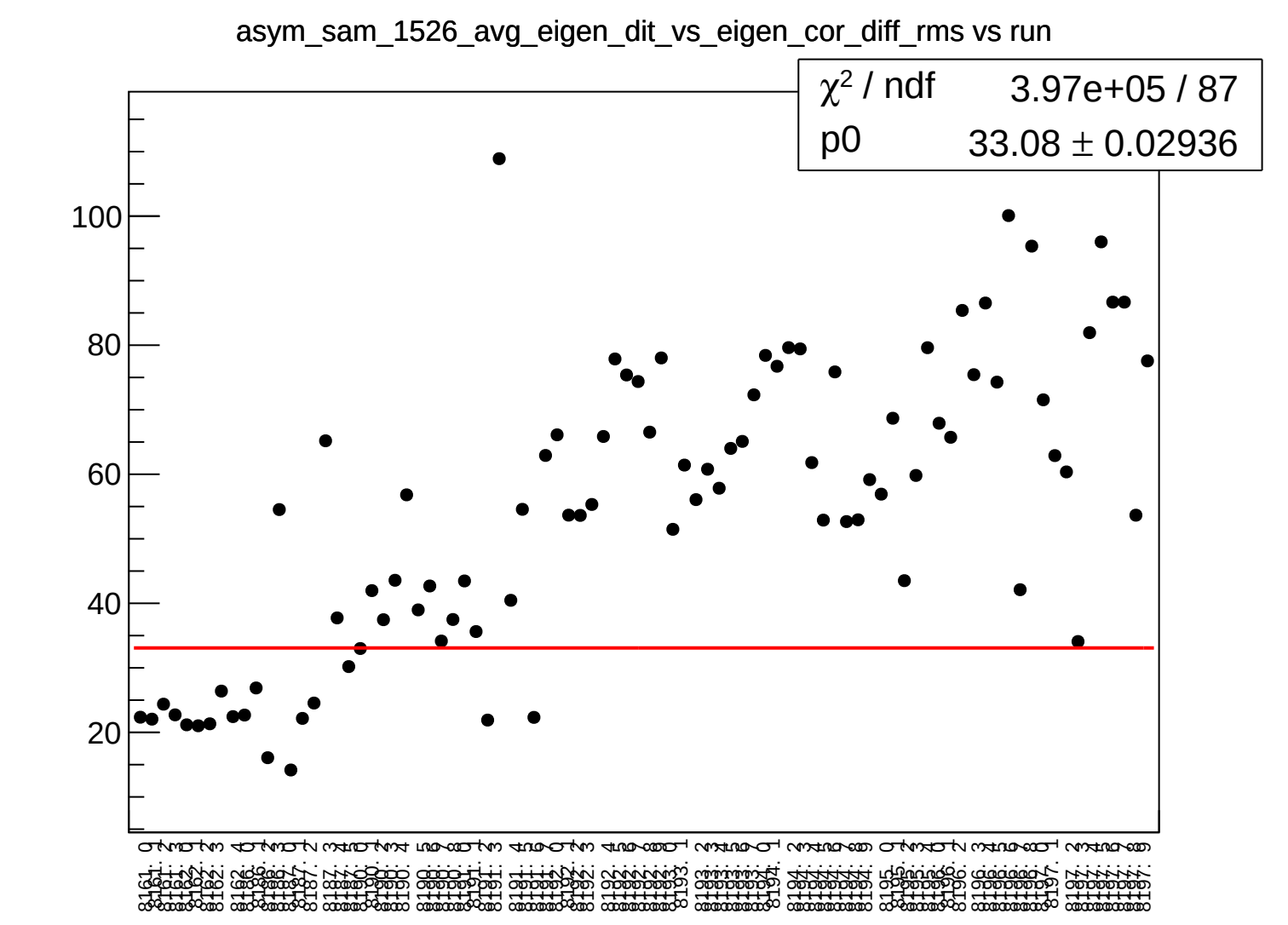

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.83 / 87
p0 8.794e−07 ± 7.143e−07
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 493.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006797
Std Dev 0.9643
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

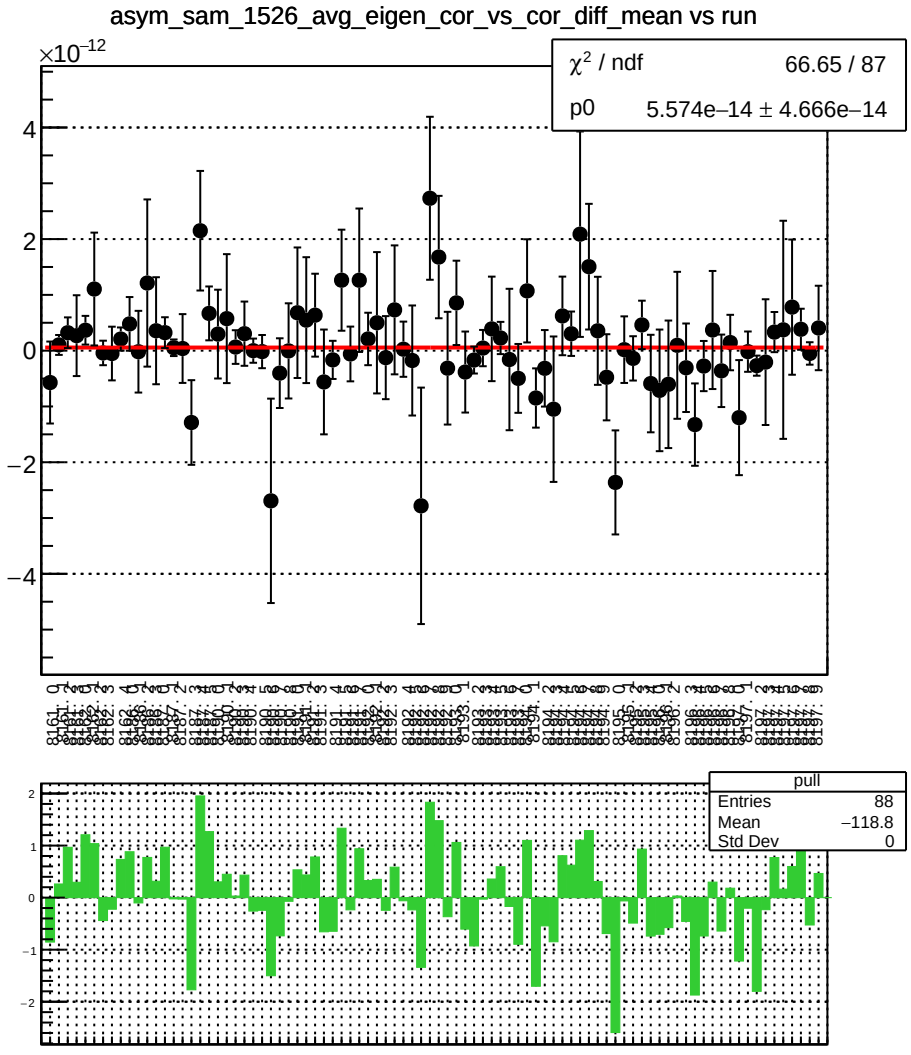

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.344e+04 / 87
p0 0.0006396 ± 5.051e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

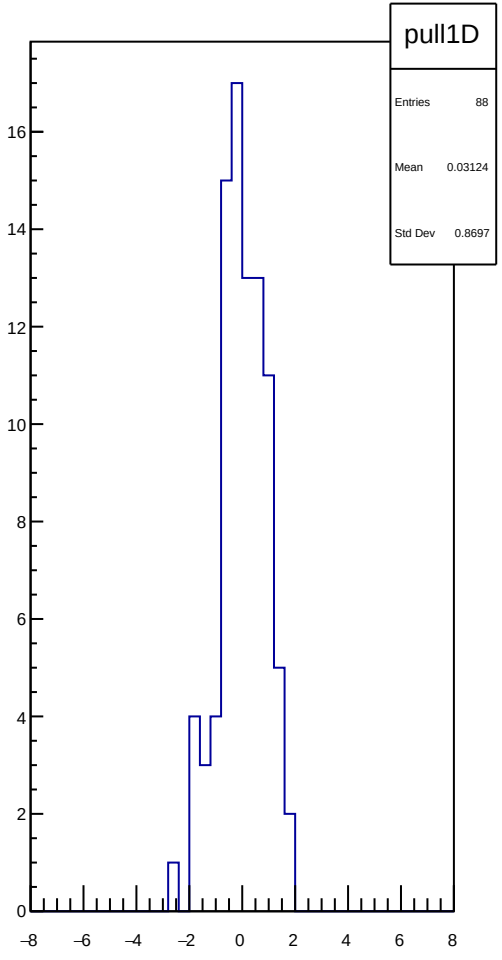

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.51 / 87
p0 0.03579 ± 0.04152
pull
Entries 88
Mean 48.58
Std Dev 0
pull1D
Entries 88
Mean −0.02798
Std Dev 0.9854

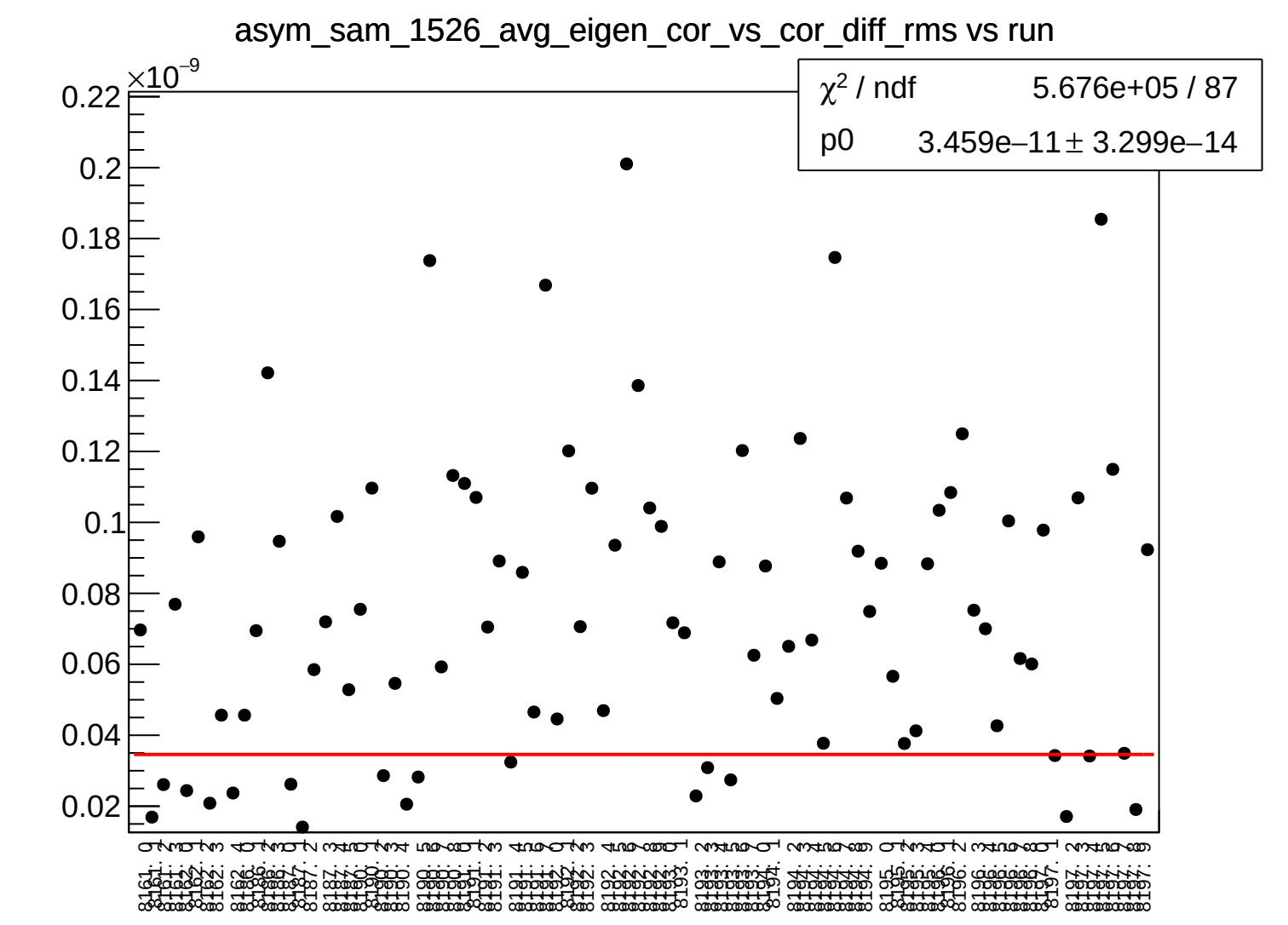

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.97e+05 / 87
p0 33.08 ± 0.02936
100
80
60
40
20

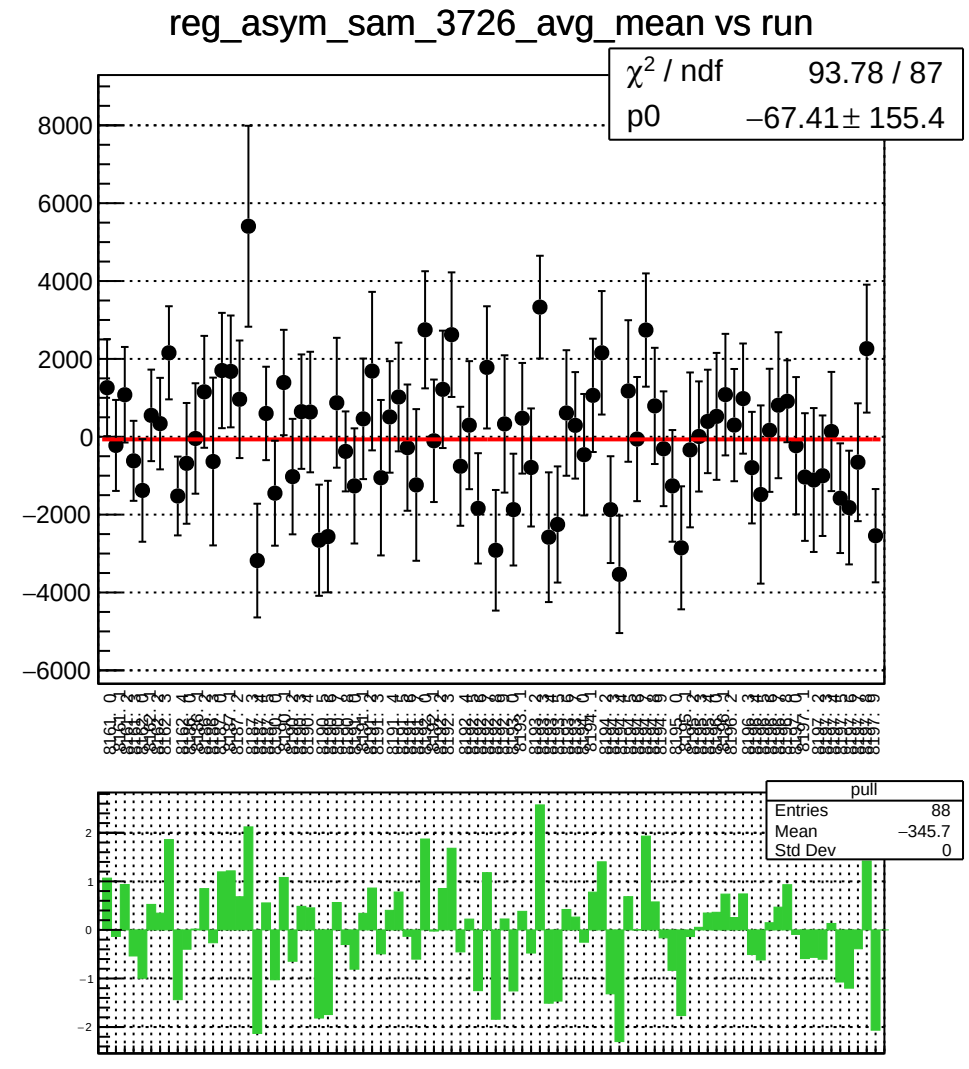

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.51 / 87
p0 0.03579 ± 0.04152
pull
Entries 88
Mean 48.58
Std Dev 0
pull1D
Entries 88
Mean −0.02798
Std Dev 0.9854

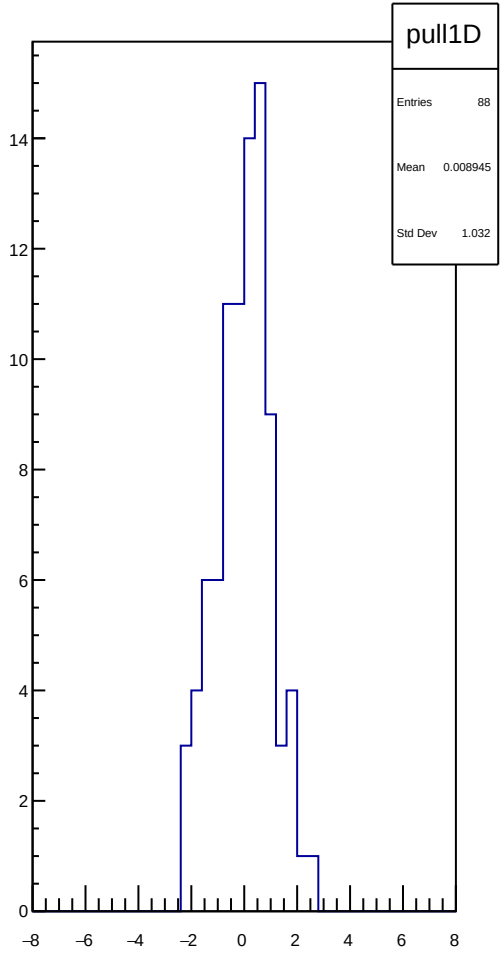

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.97e+05 / 87
p0 33.08 ± 0.02936
100
80
60
40
20

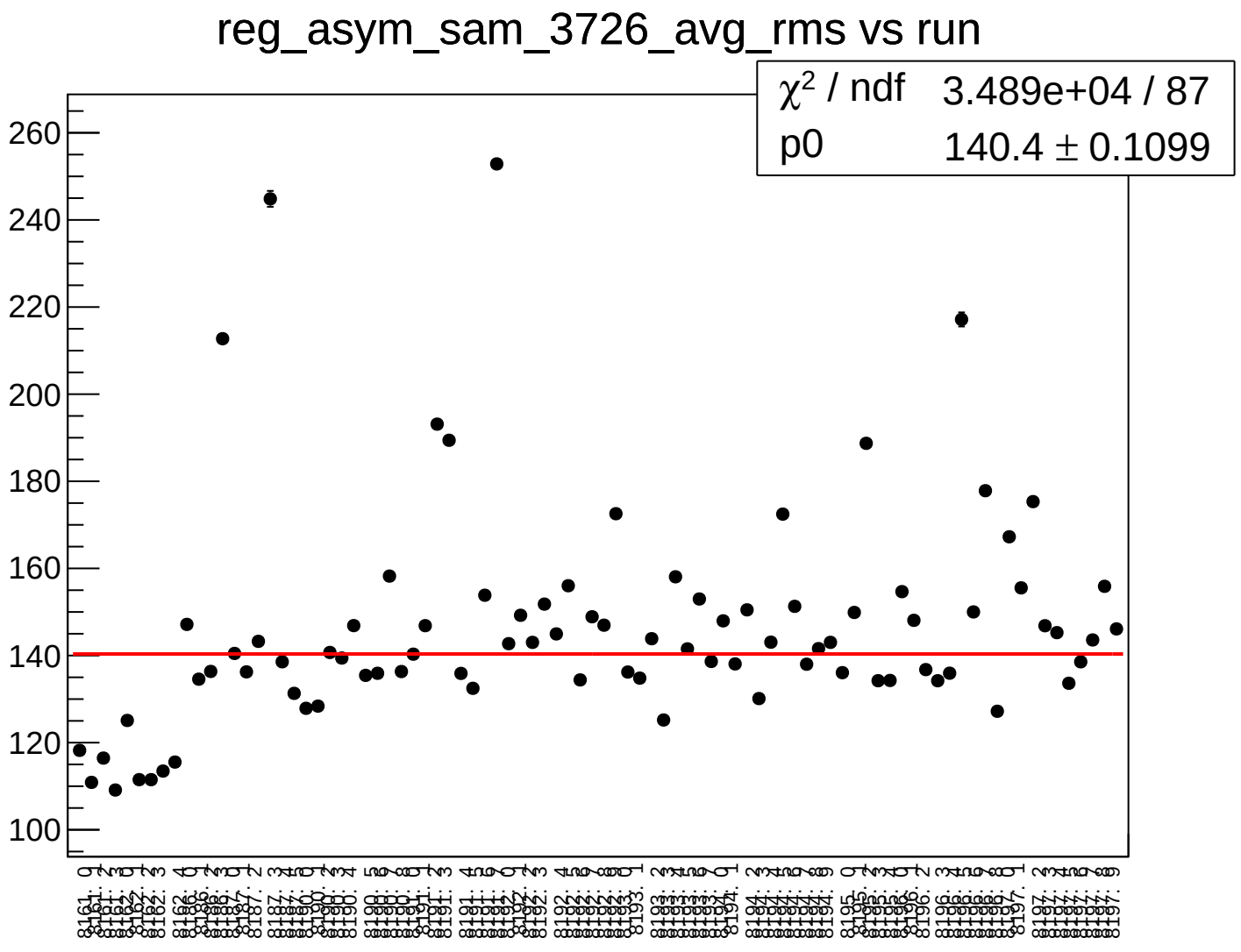

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.65 / 87
p0 5.574e−14 ± 4.666e−14
pull
Entries 88
Mean −118.8
Std Dev 0

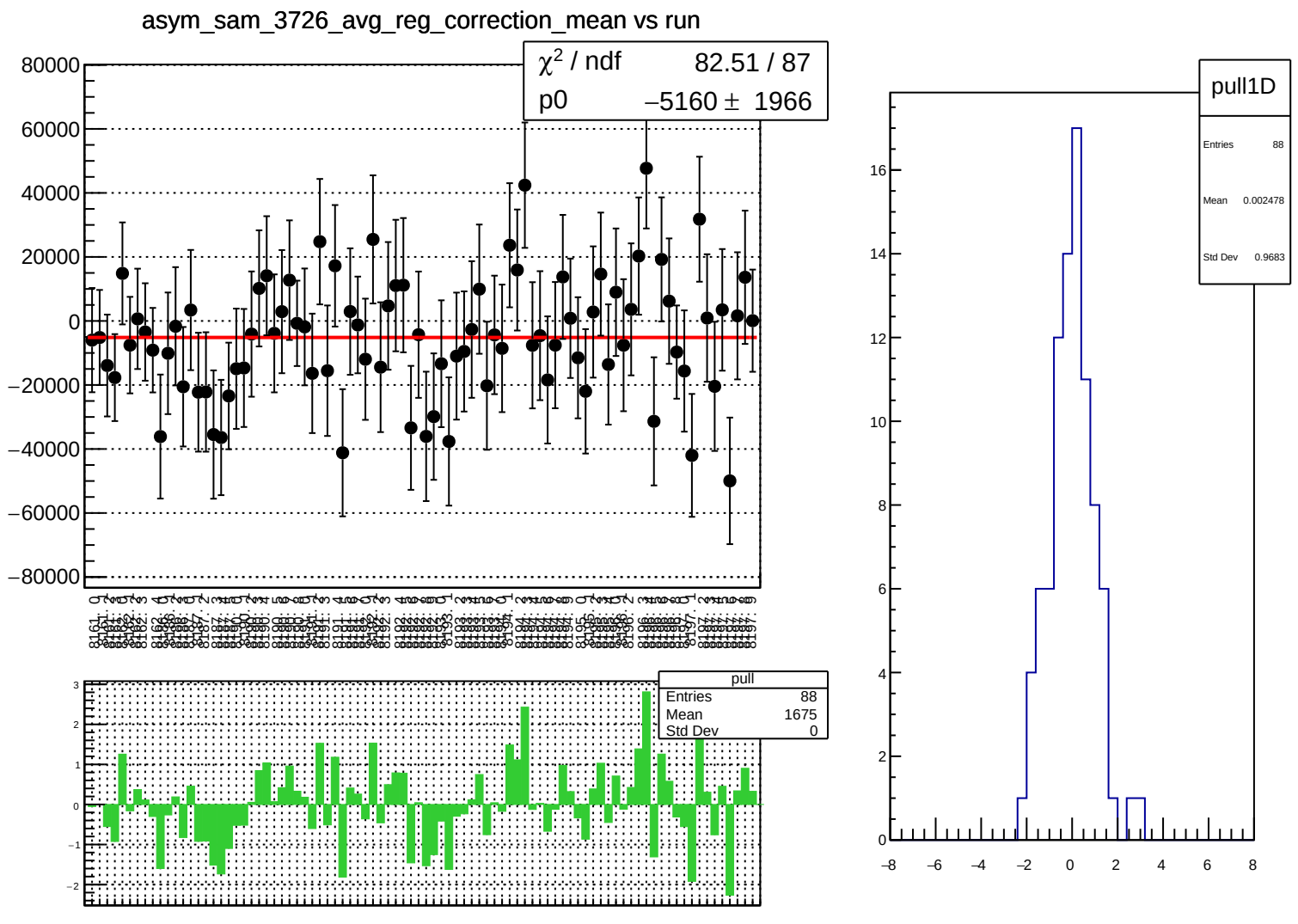

pull1D
Entries 88
Mean 0.03124
Std Dev 0.8697

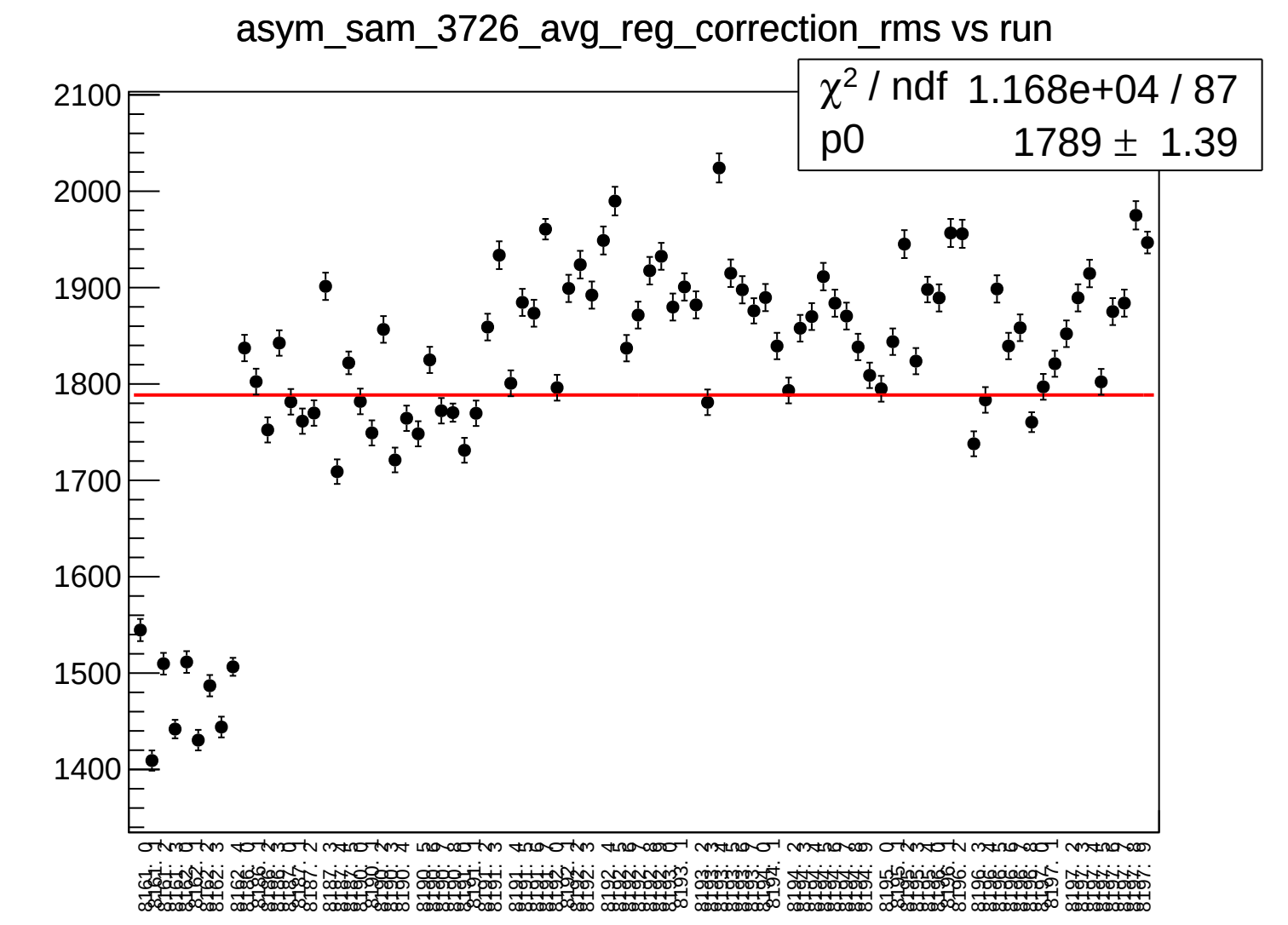

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.676e+05 / 87
p0 3.459e−11 ± 3.299e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

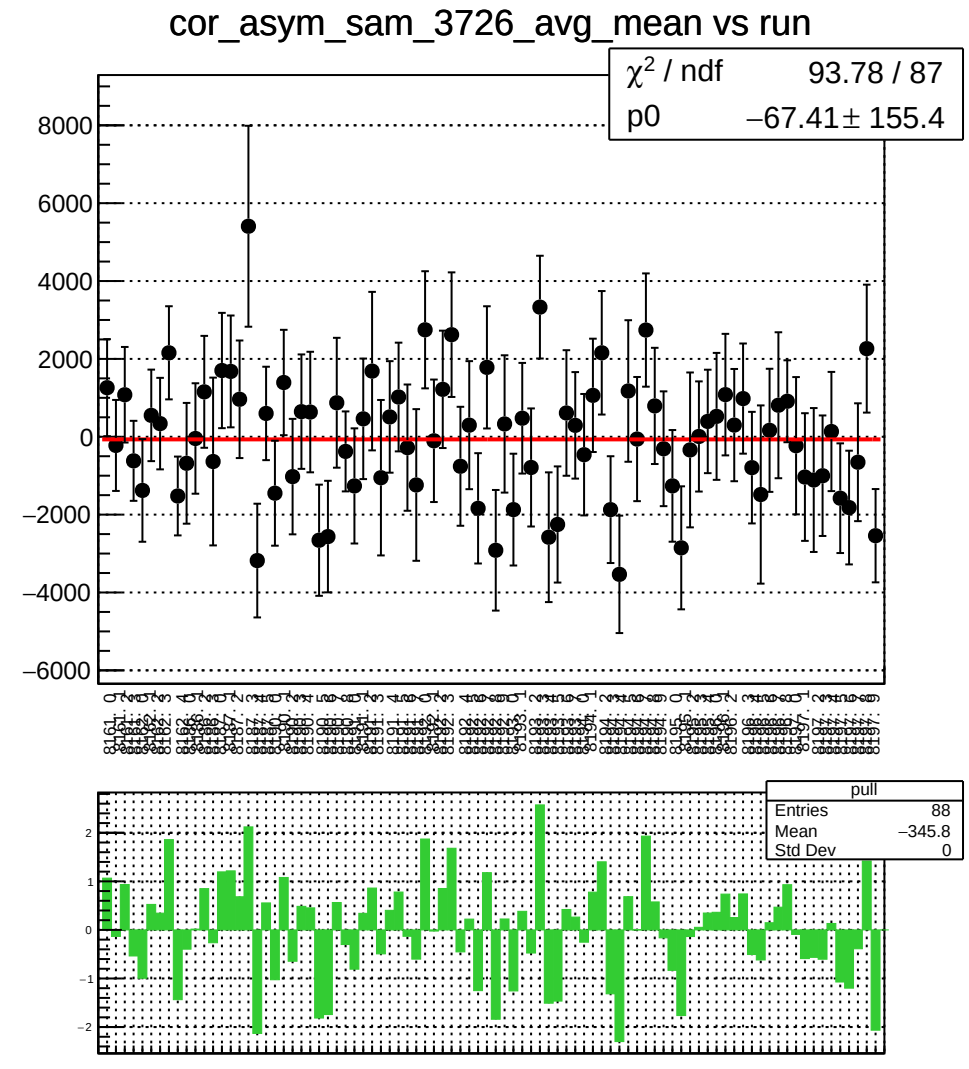

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 93.78 / 87
p0 −67.41 ± 155.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −345.7
Std Dev 0
2
1
0
−1
−2

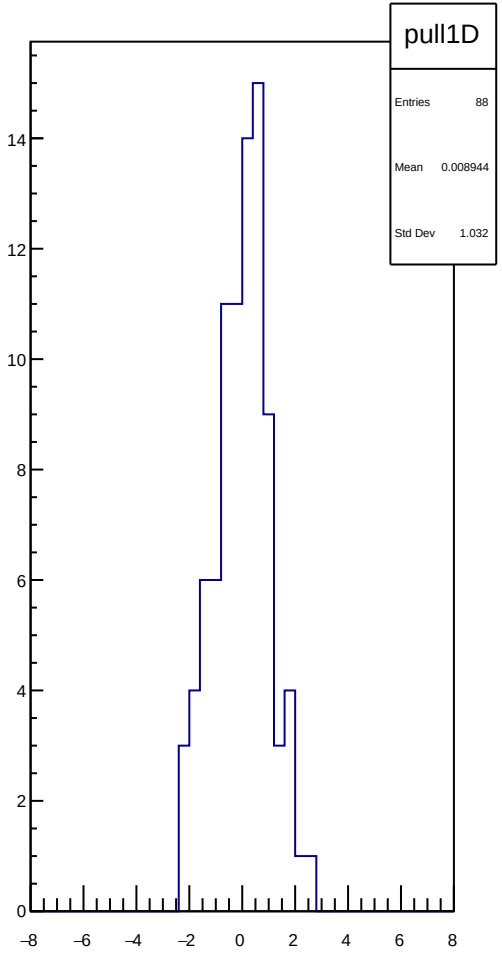

pull1D
Entries 88
Mean 0.008945
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

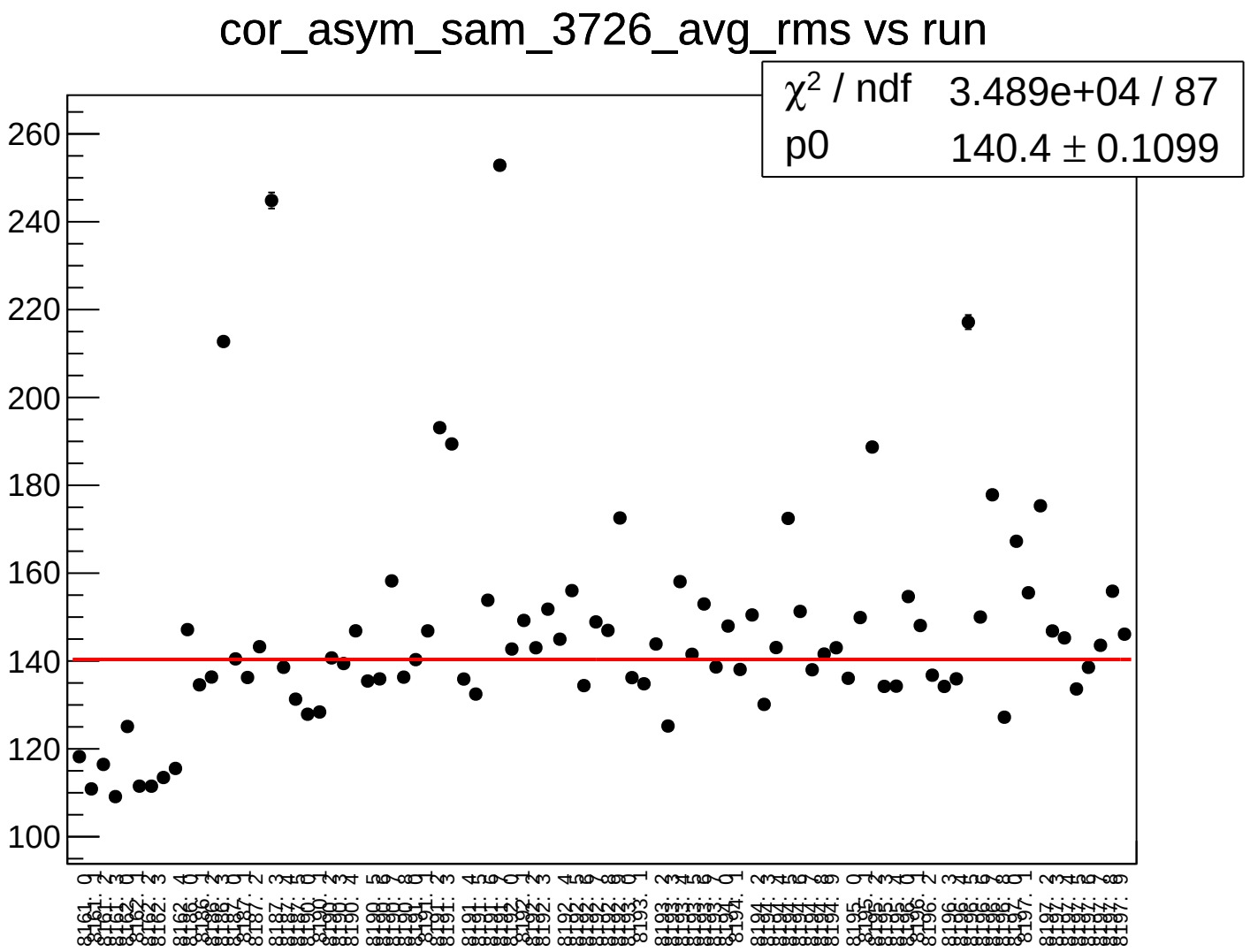

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.489e+04 / 87
p0 140.4 ± 0.1099
260
240
220
200
180
160
140
120
100

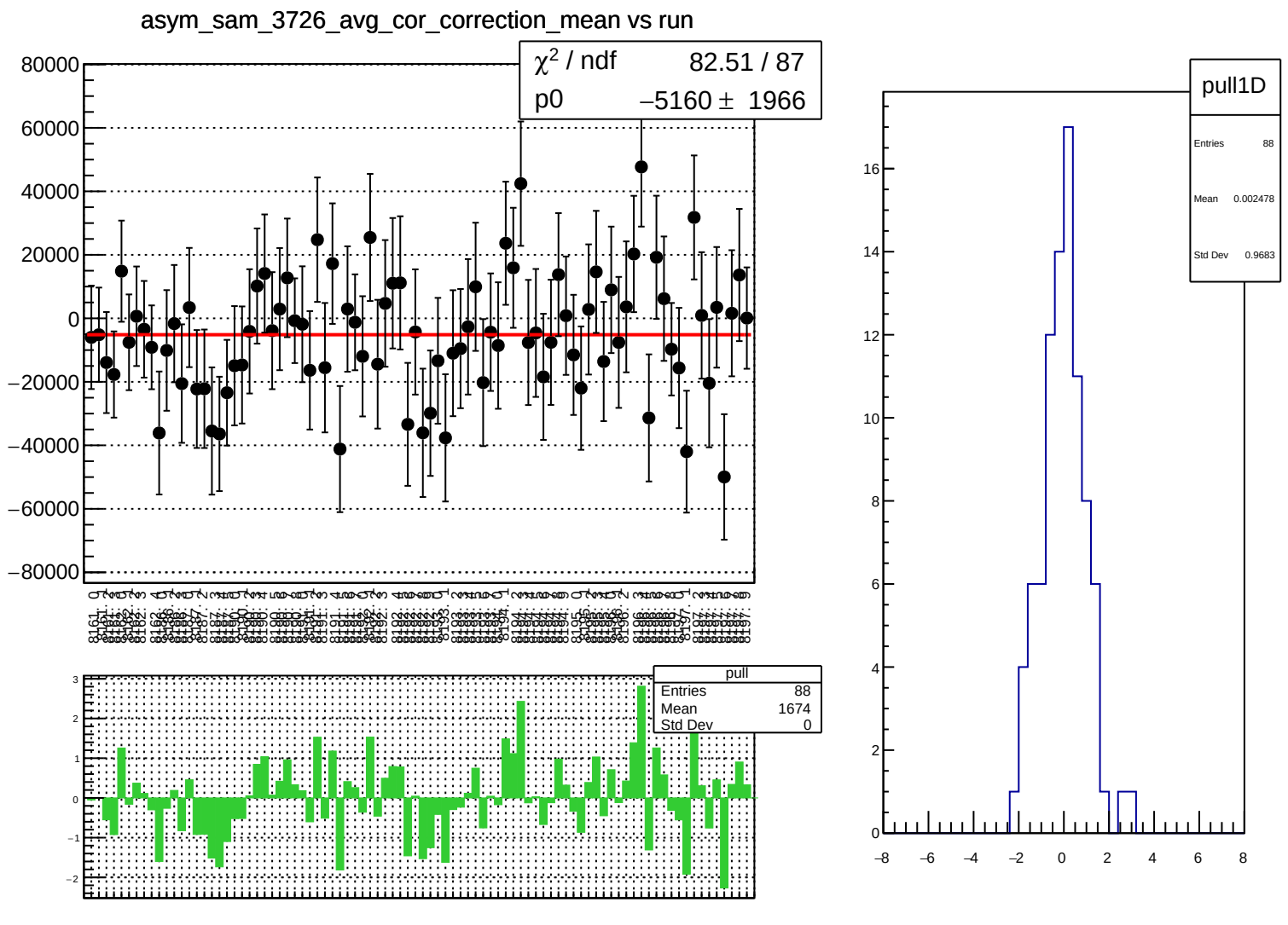

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 82.51 / 87
p0 −5160 ± 1966
pull
Entries 88
Mean 1675
Std Dev 0
pull1D
Entries 88
Mean 0.002478
Std Dev 0.9683

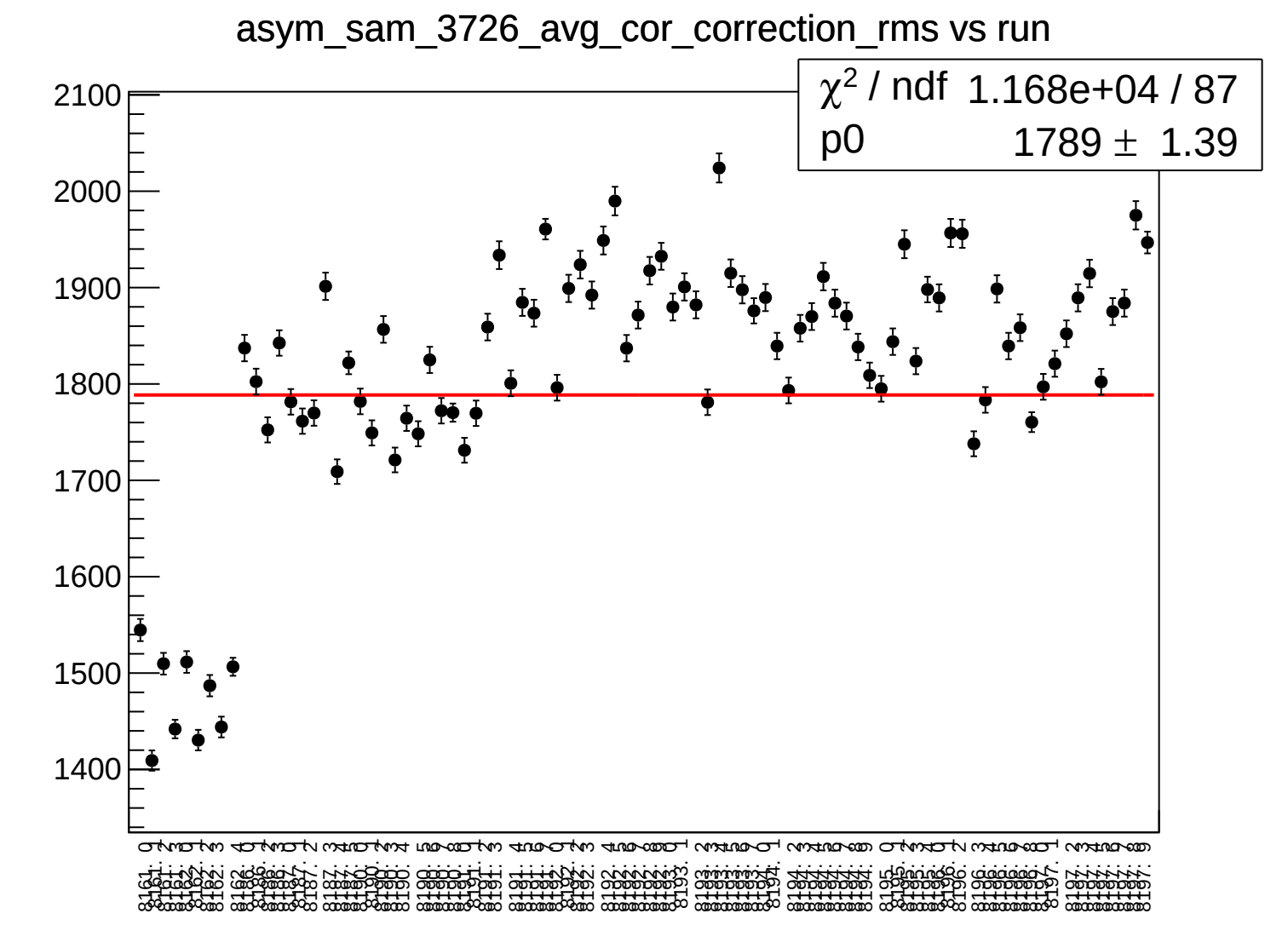

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.168e+04 / 87
p0 1789 ± 1.39
2100
2000
1900
1800
1700
1600
1500
1400

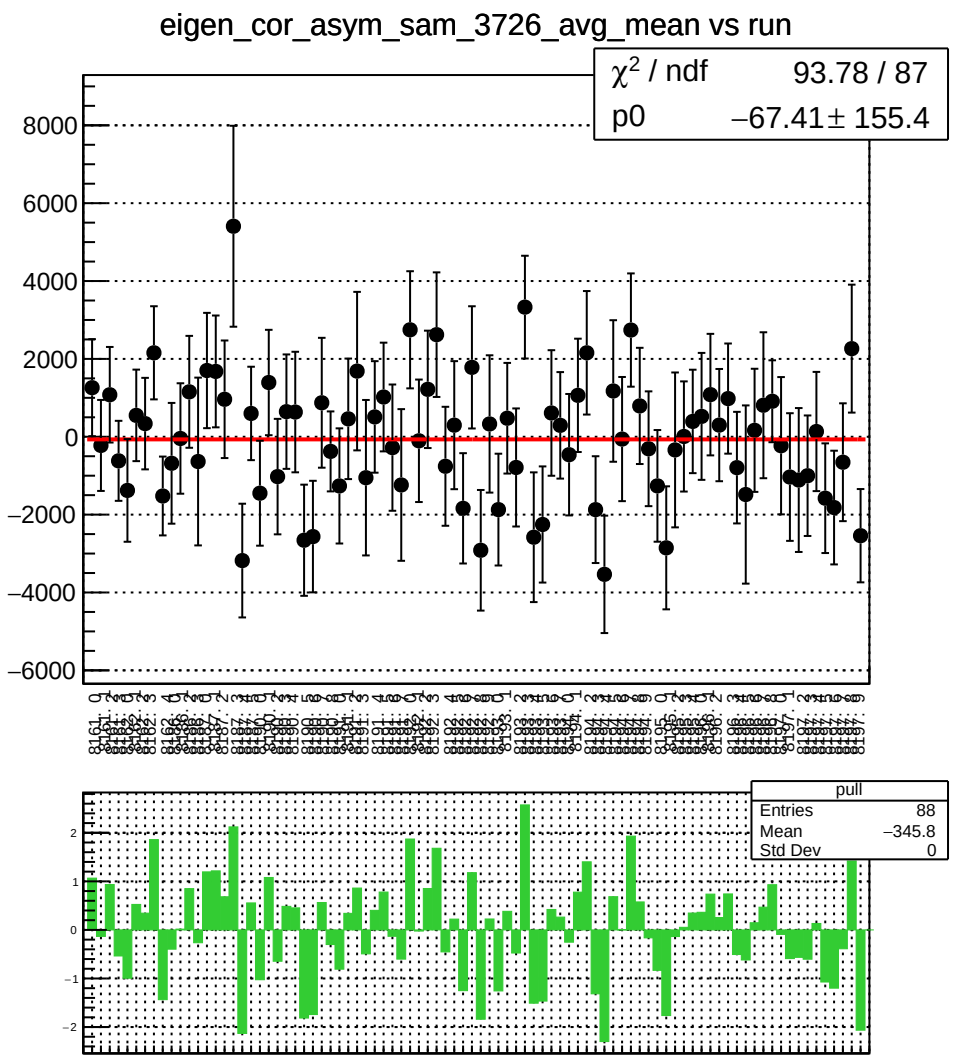

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 93.78 / 87
p0 −67.41 ± 155.4
pull
Entries 88
Mean −345.8
Std Dev 0

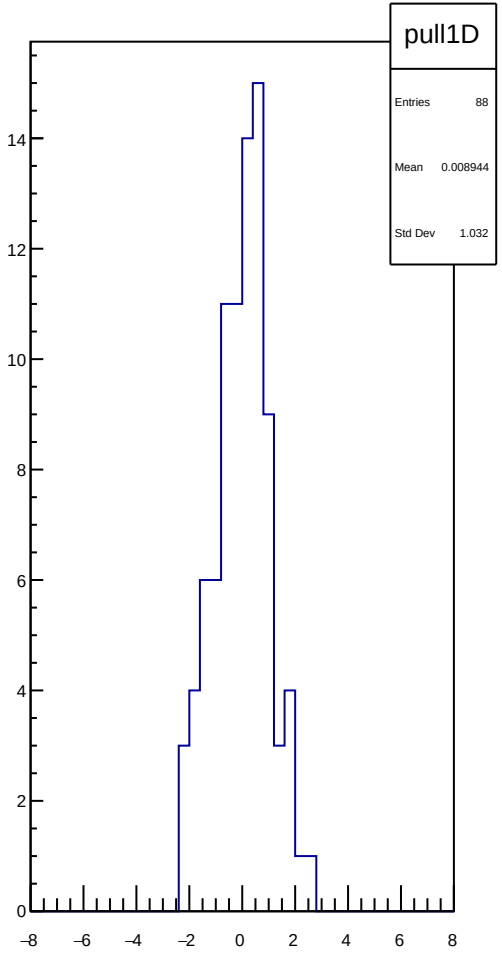

pull1D
Entries 88
Mean 0.008944
Std Dev 1.032

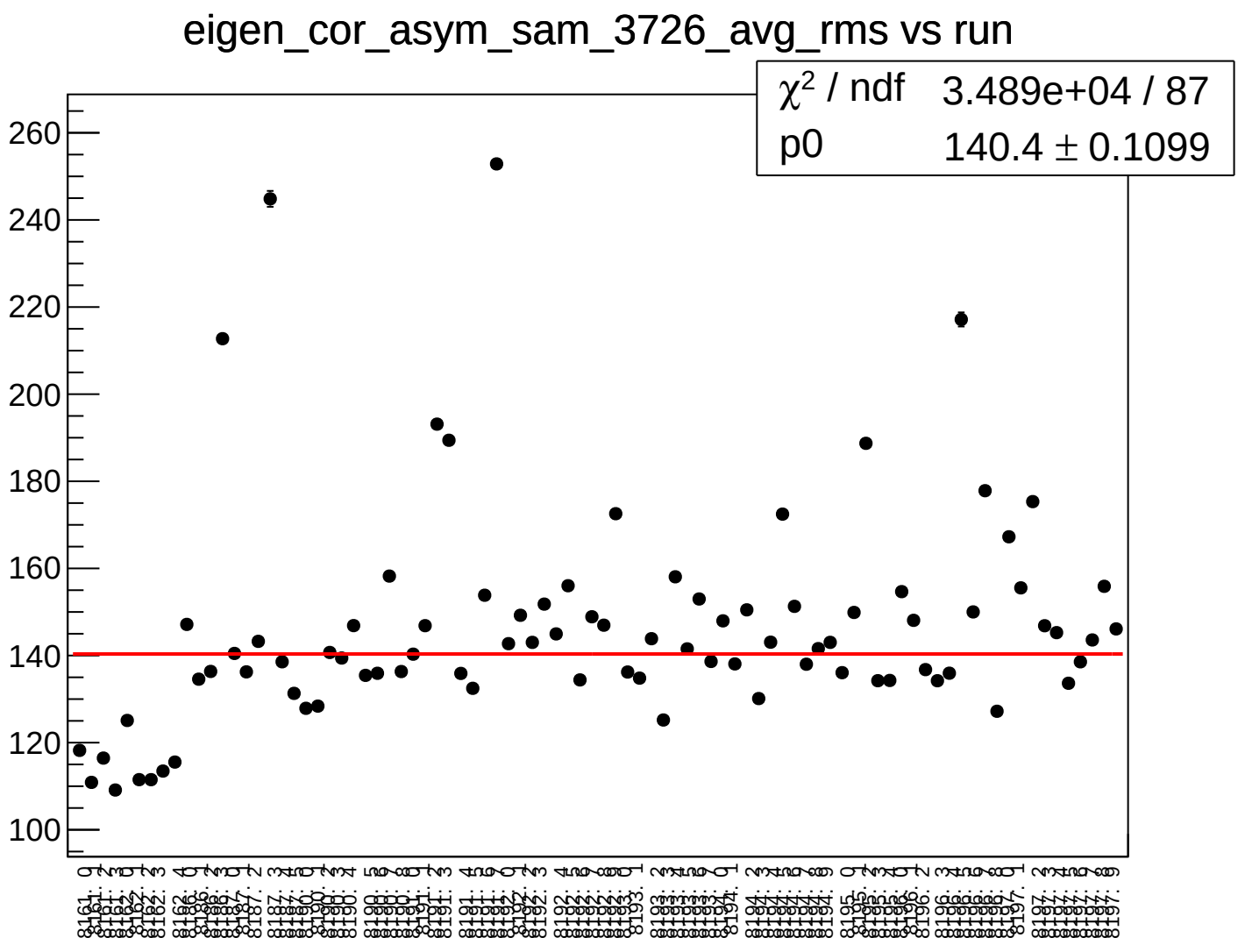

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.489e+04 / 87
p0 140.4 ± 0.1099
260
240
220
200
180
160
140
120
100

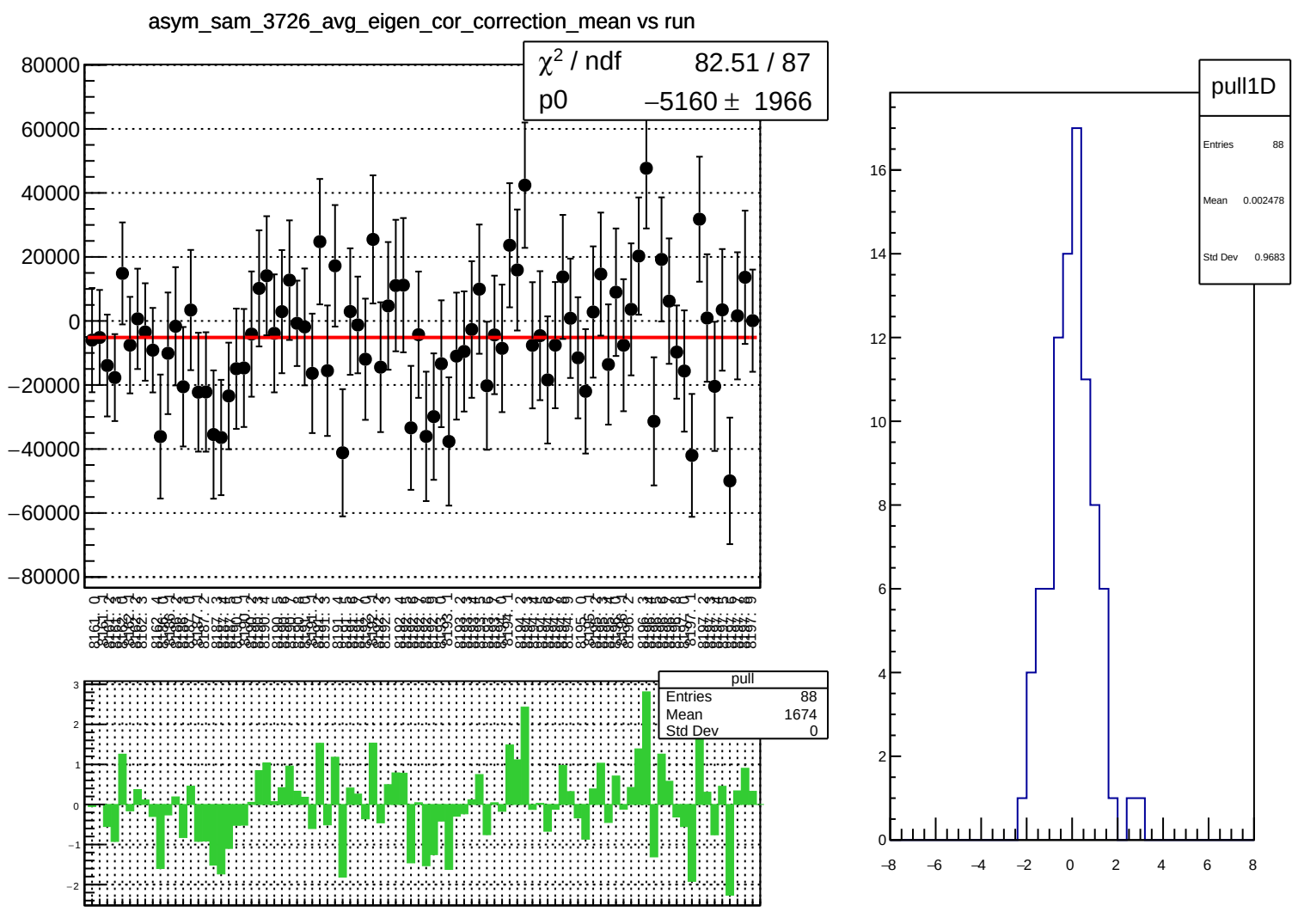

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 82.51 / 87
p0 −5160 ± 1966
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 1674
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002478
Std Dev 0.9683
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

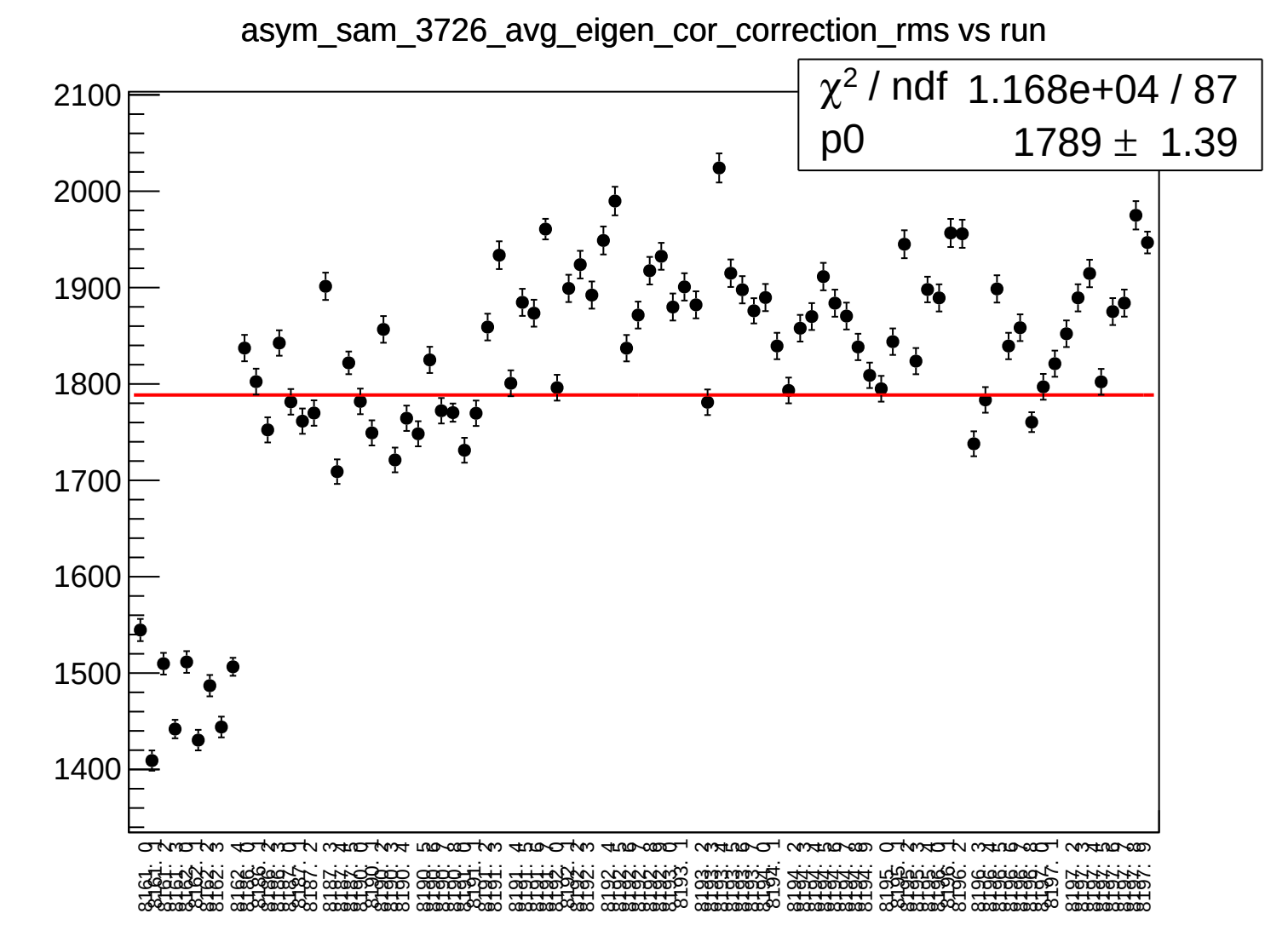

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.168e+04 / 87
p0 1789 ± 1.39
2100
2000
1900
1800
1700
1600
1500
1400

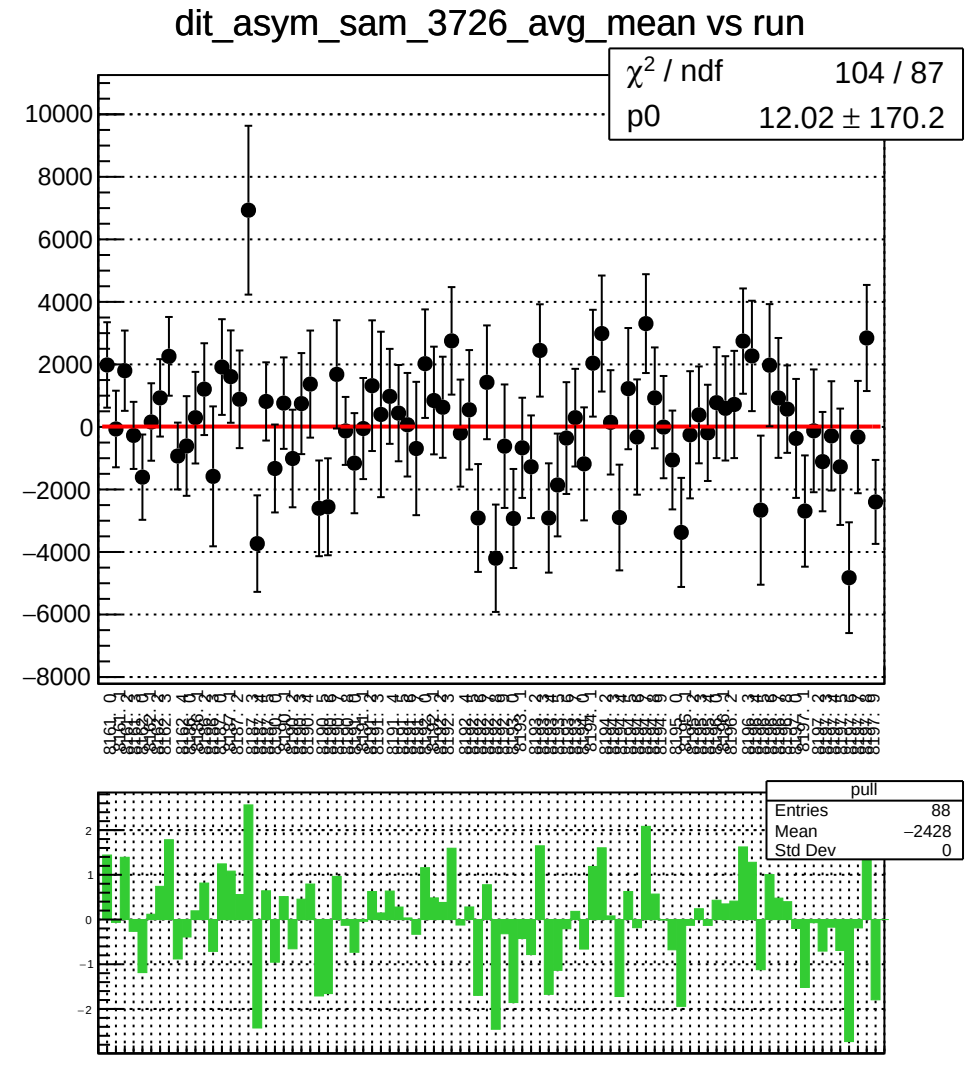

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 93.78 / 87
p0 −67.41 ± 155.4
pull
Entries 88
Mean −345.8
Std Dev 0

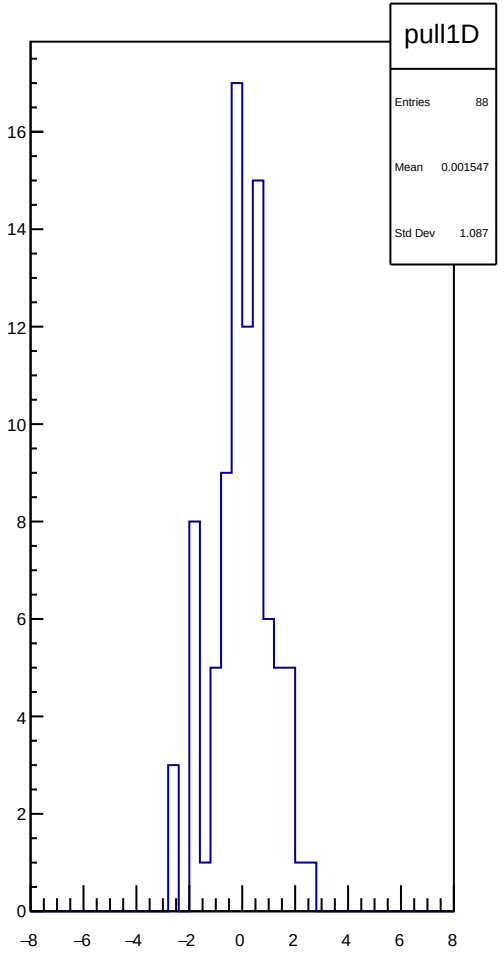

pull1D
Entries 88
Mean 0.008944
Std Dev 1.032

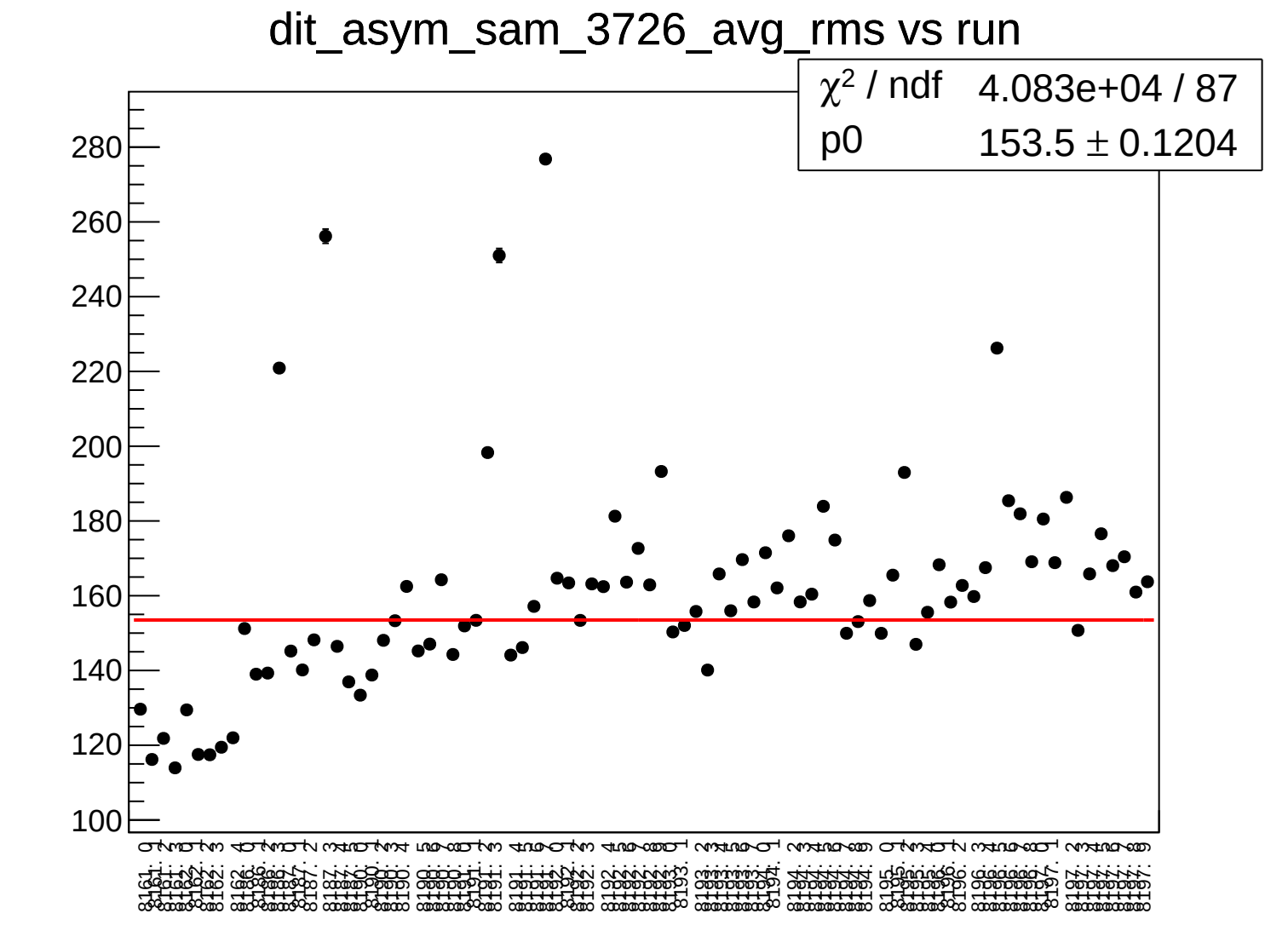

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.489e+04 / 87
p0 140.4 ± 0.1099
260
240
220
200
180
160
140
120
100

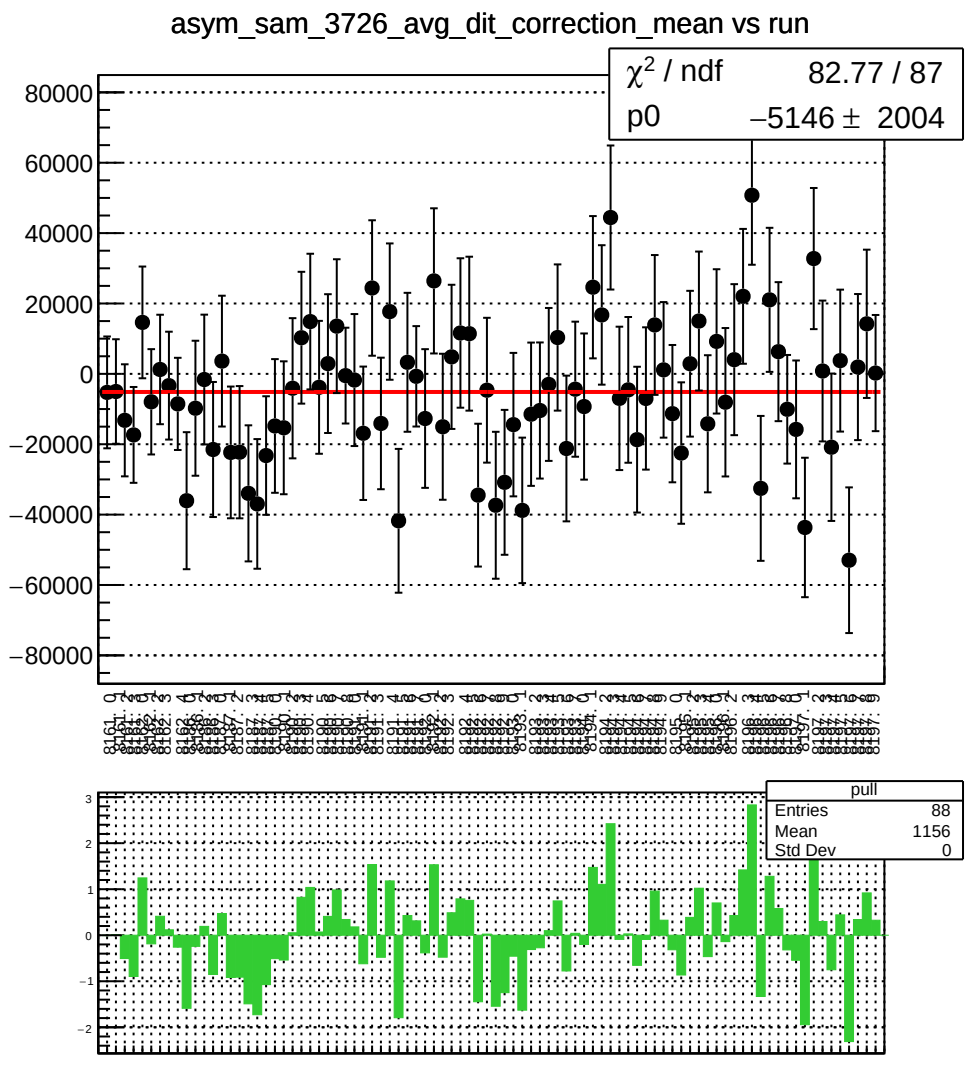

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.51 / 87
p0 −5160 ± 1966
pull
Entries 88
Mean 1674
Std Dev 0
pull1D
Entries 88
Mean 0.002478
Std Dev 0.9683

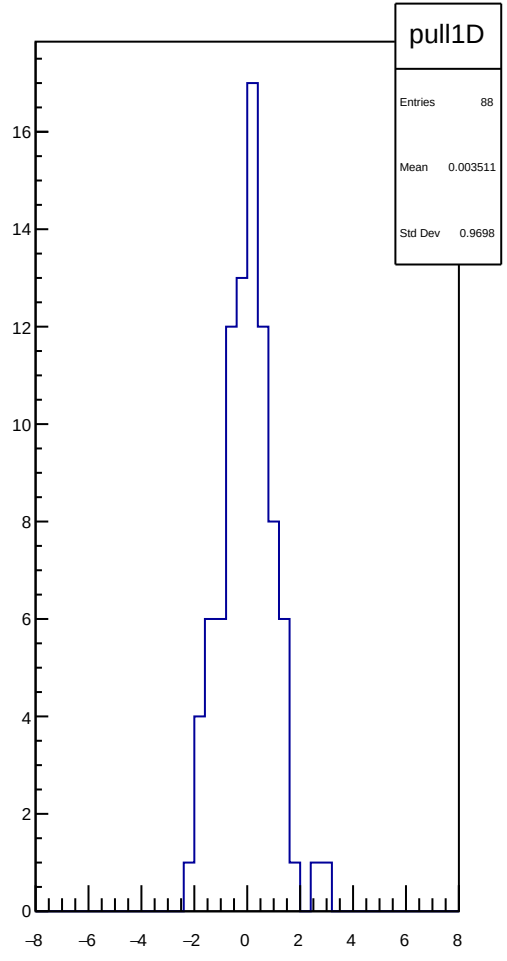

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.168e+04 / 87
p0 1789 ± 1.39
2100
2000
1900
1800
1700
1600
1500
1400

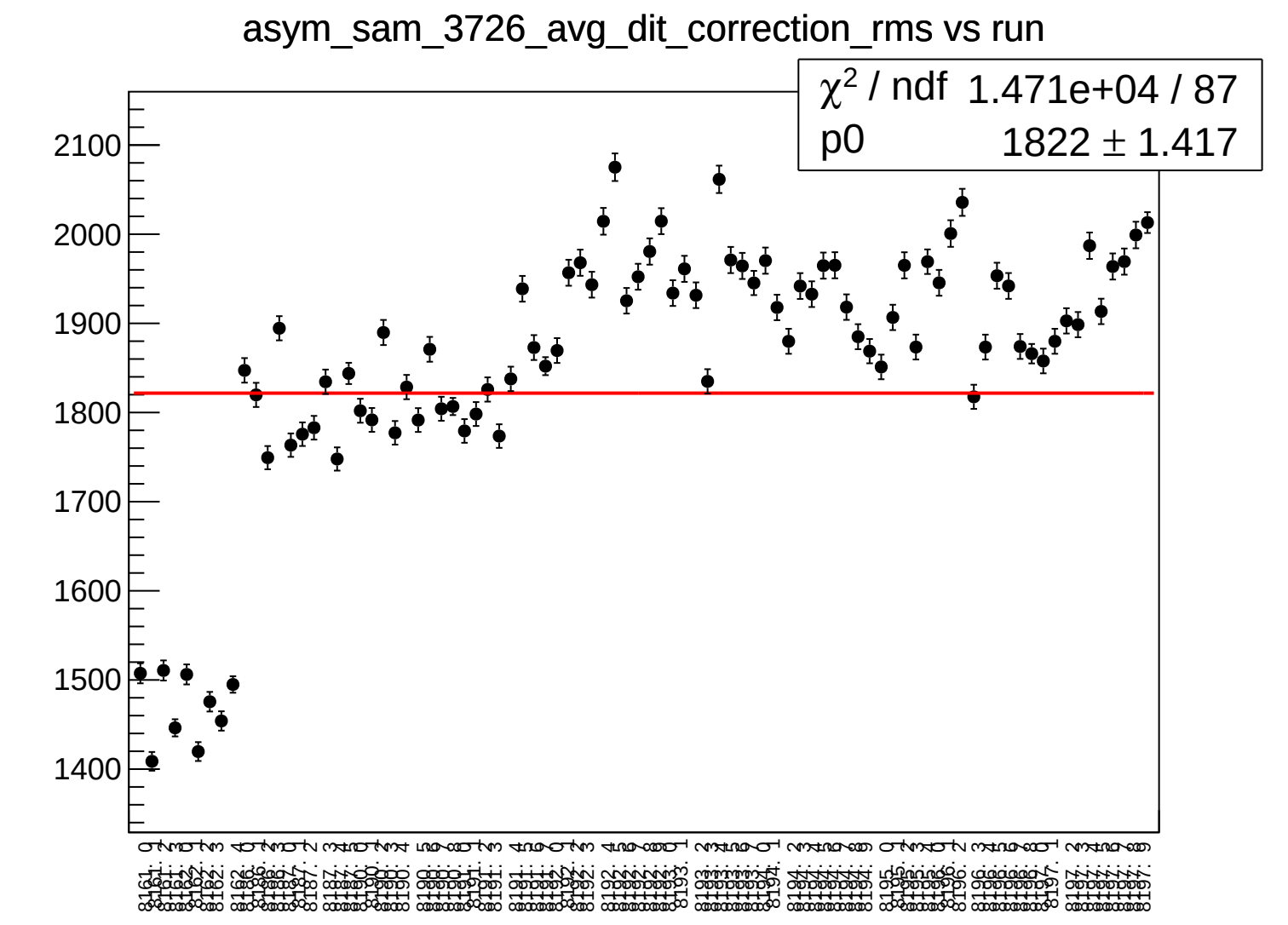

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 104 / 87
p0 12.02 ± 170.2
pull
Entries 88
Mean −2428
Std Dev 0

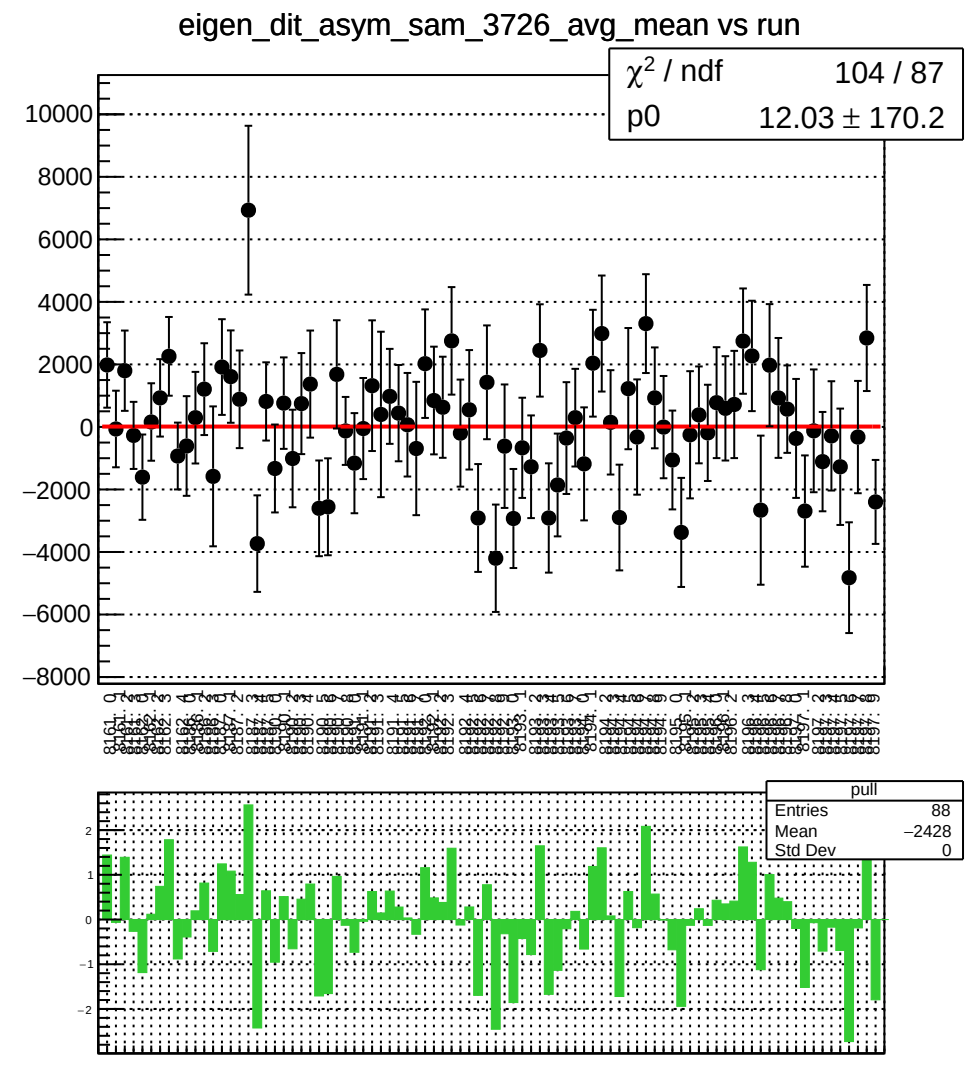

pull1D
Entries 88
Mean 0.001547
Std Dev 1.087

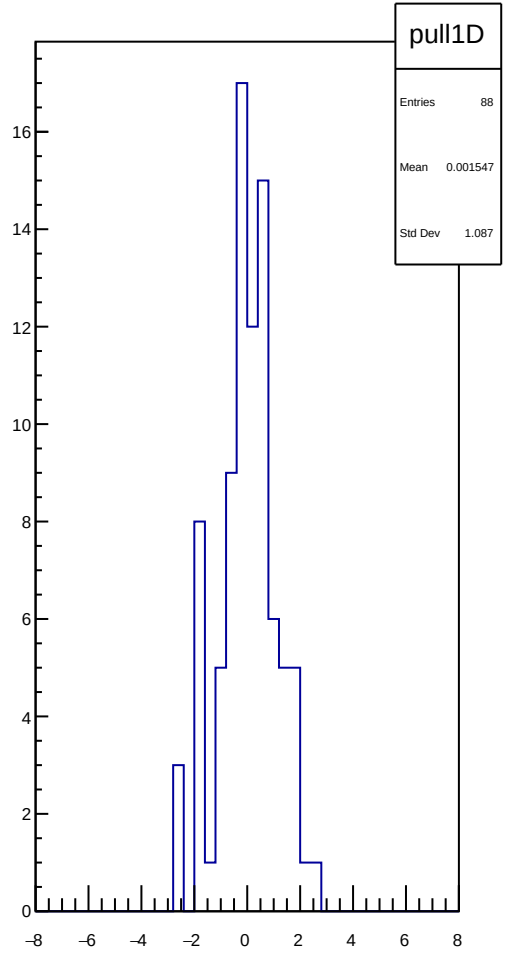

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.083e+04 / 87
p0 153.5 ± 0.1204
280
260
240
220
200
180
160
140
120
100

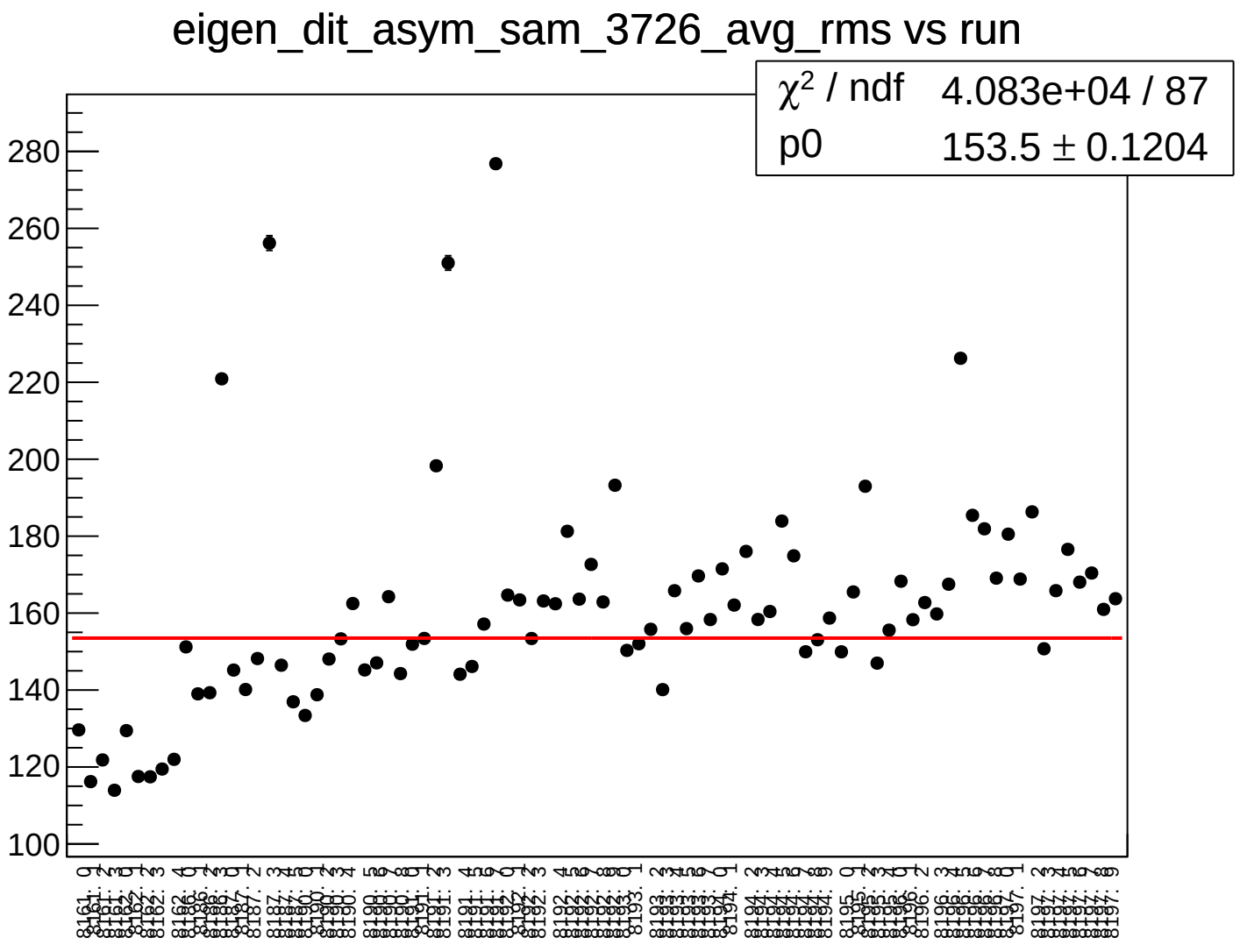

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 82.77 / 87
p0 −5146 ± 2004
pull
Entries 88
Mean 1156
Std Dev 0

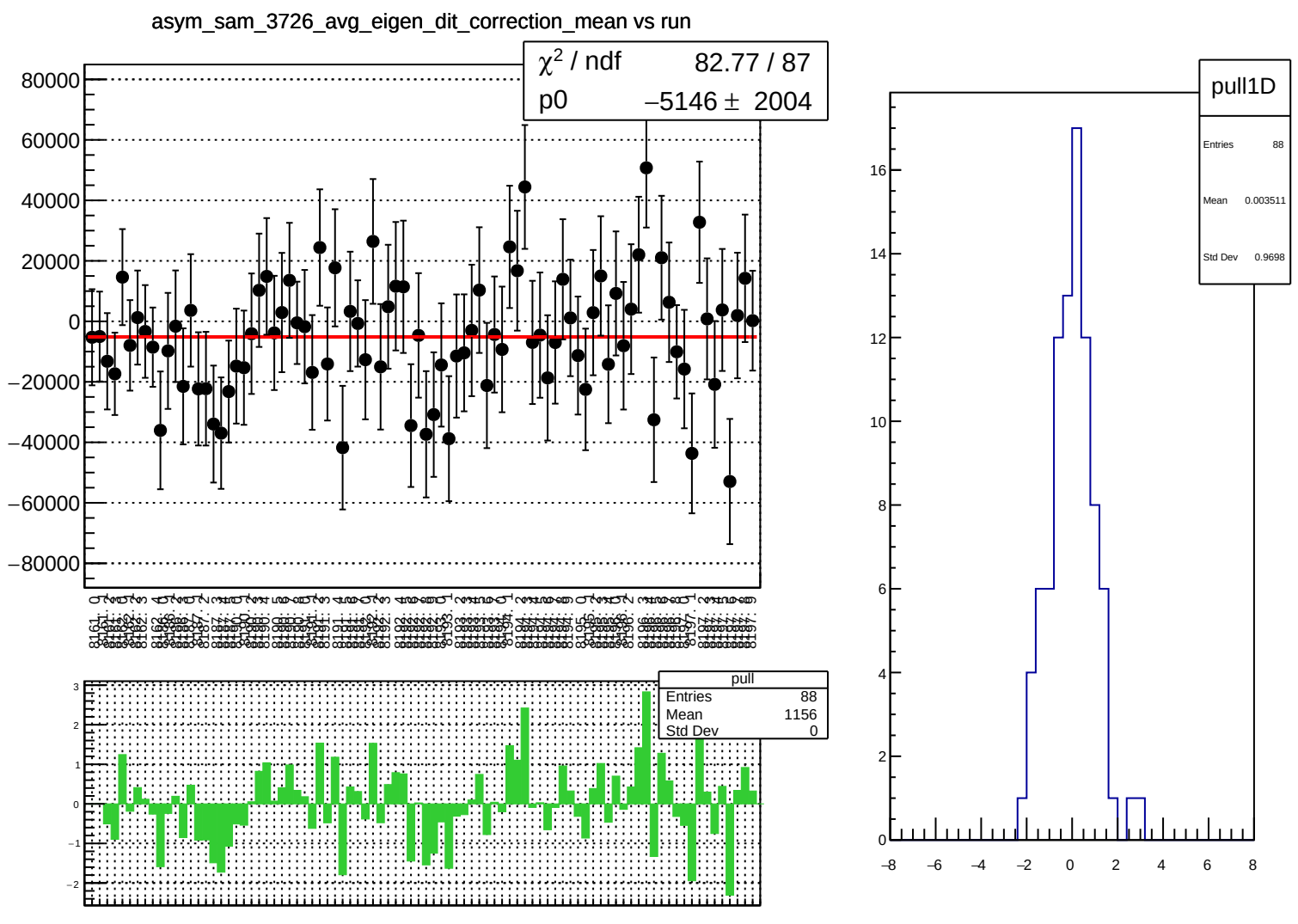

pull1D
Entries 88
Mean 0.003511
Std Dev 0.9698

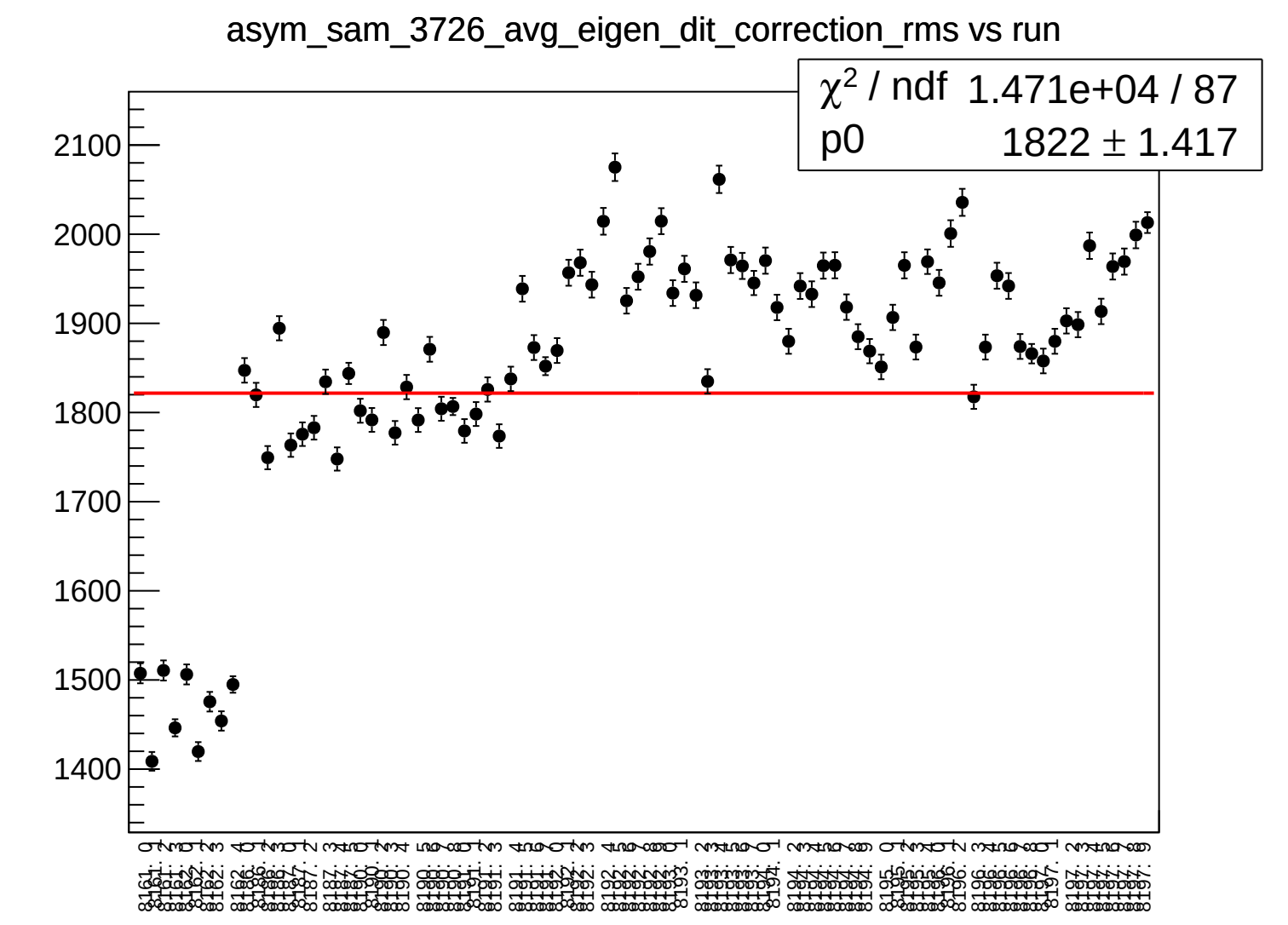

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.471e+04 / 87
p0 1822 ± 1.417
2100
2000
1900
1800
1700
1600
1500
1400

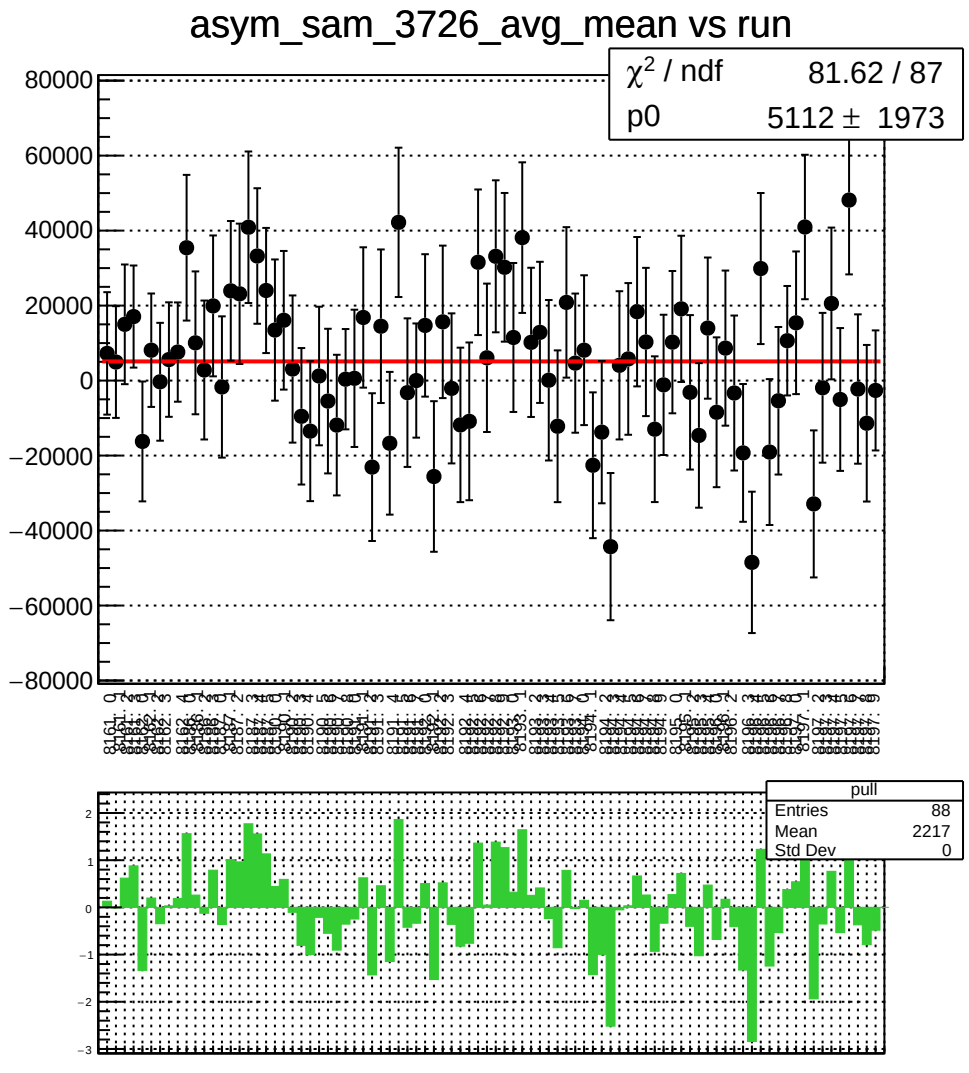

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 104 / 87
p0 12.03 ± 170.2
pull
Entries 88
Mean −2428
Std Dev 0

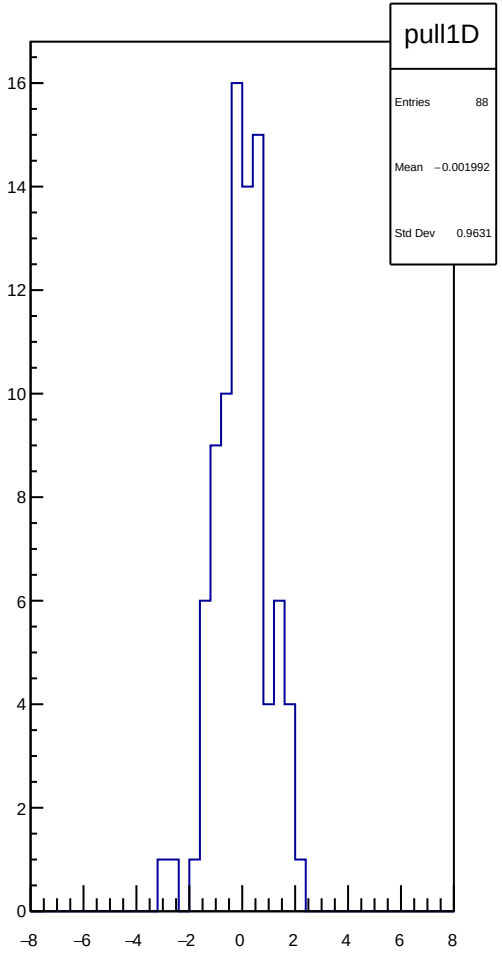

pull1D
Entries 88
Mean 0.001547
Std Dev 1.087

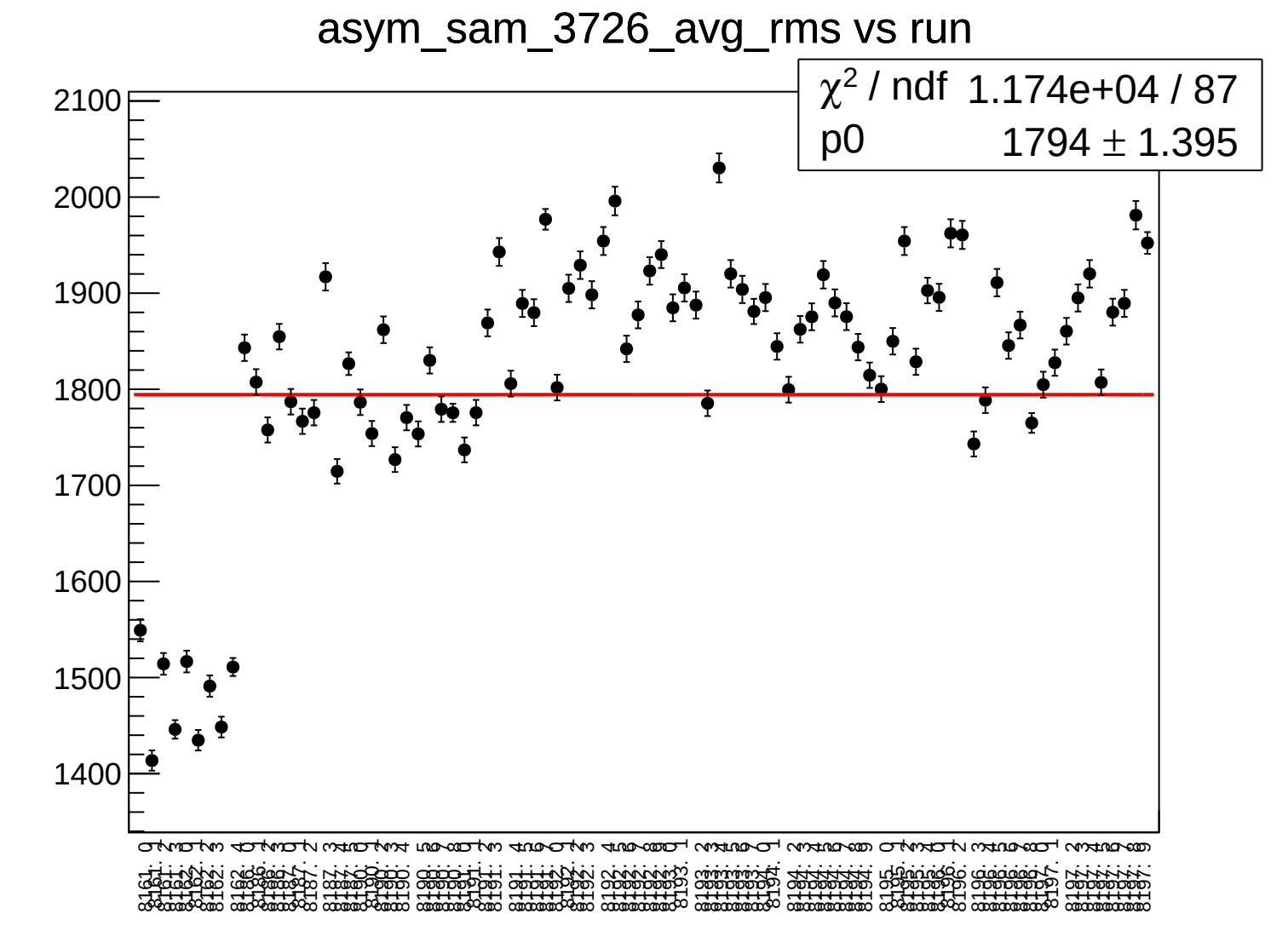

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.083e+04 / 87
p0 153.5 ± 0.1204
280
260
240
220
200
180
160
140
120
100

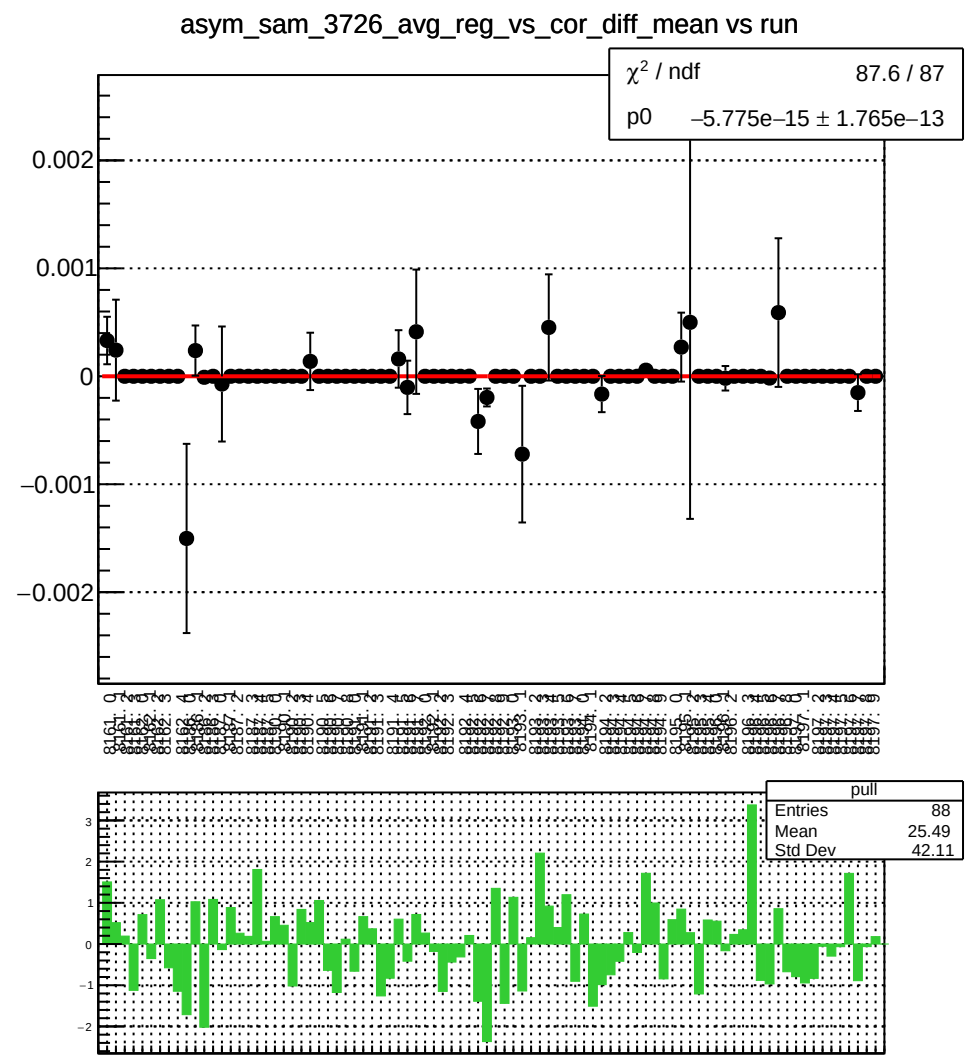

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.77 / 87
p0 −5146 ± 2004
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 1156
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.003511
Std Dev 0.9698
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

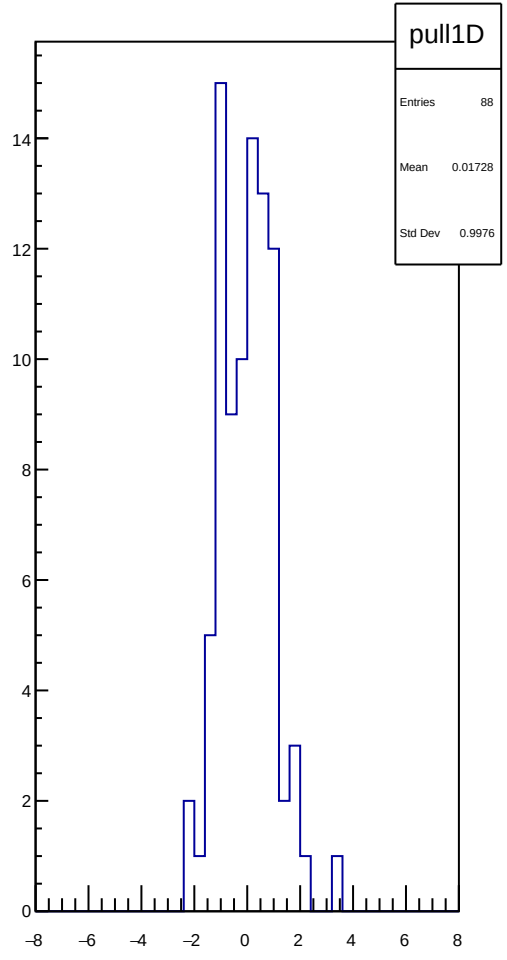

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.471e+04 / 87
p0 1822 ± 1.417
2100
2000
1900
1800
1700
1600
1500
1400

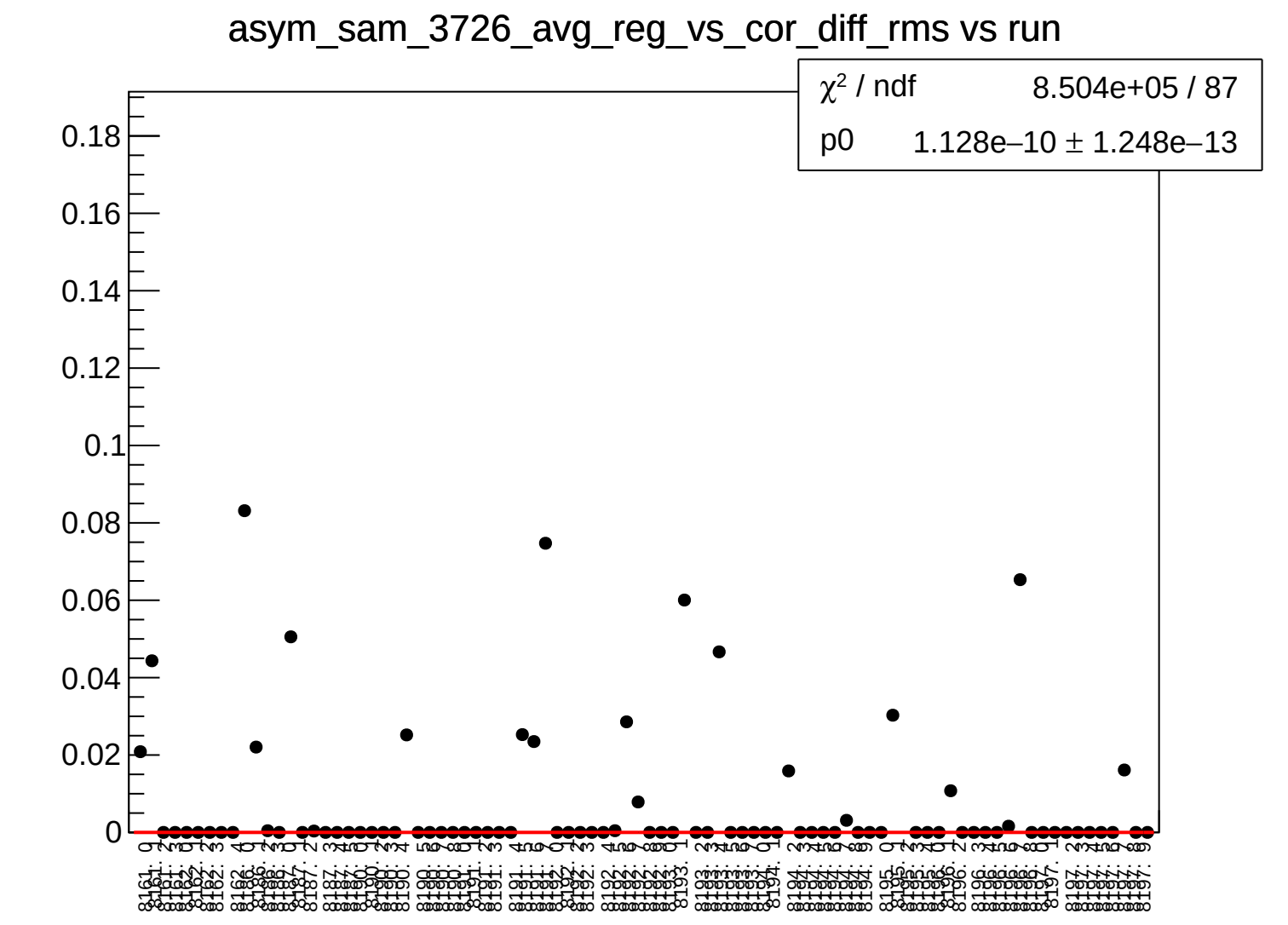

asym_sam_3726_avg_mean vs run
χ² / ndf 81.62 / 87
p0 5112 ± 1973
pull
Entries 88
Mean 2217
Std Dev 0

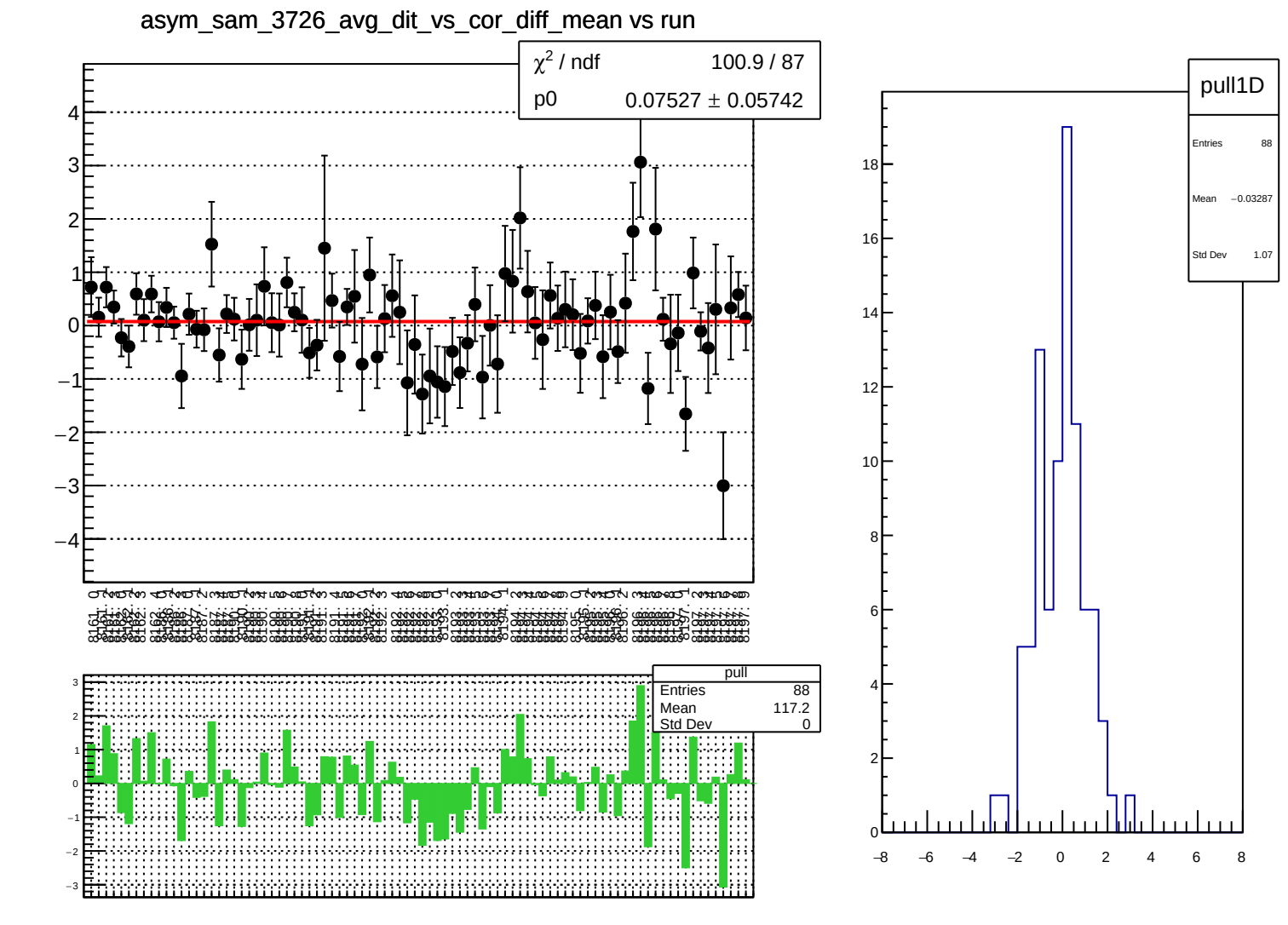

pull1D
Entries 88
Mean −0.001992
Std Dev 0.9631

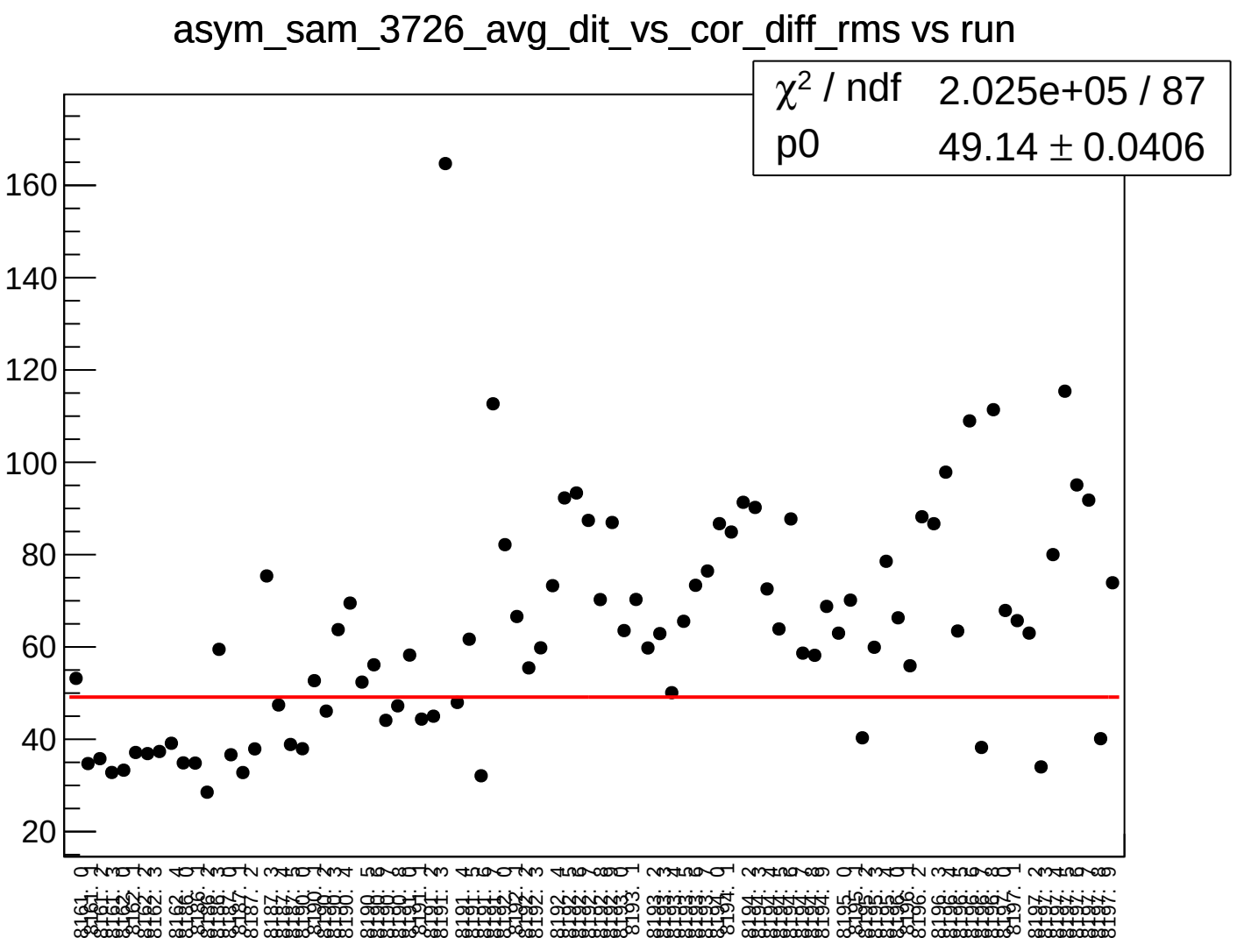

asym_sam_3726_avg_rms vs run
χ² / ndf 1.174e+04 / 87
p0 1794 ± 1.395
2100
2000
1900
1800
1700
1600
1500
1400

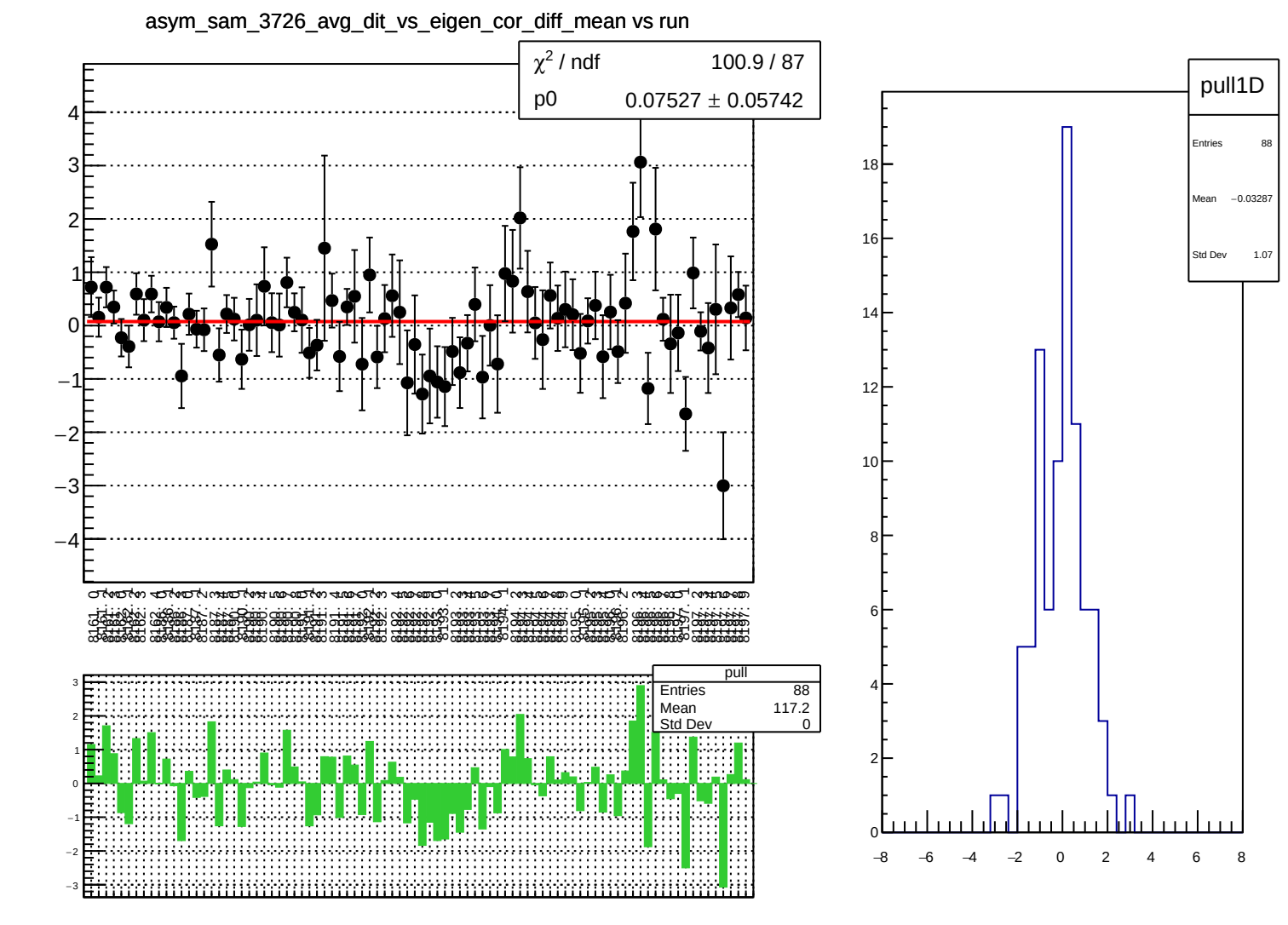

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.6 / 87
p0 −5.775e−15 ± 1.765e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 88
Mean 25.49
Std Dev 42.11
3
2
1
0
−1
−2

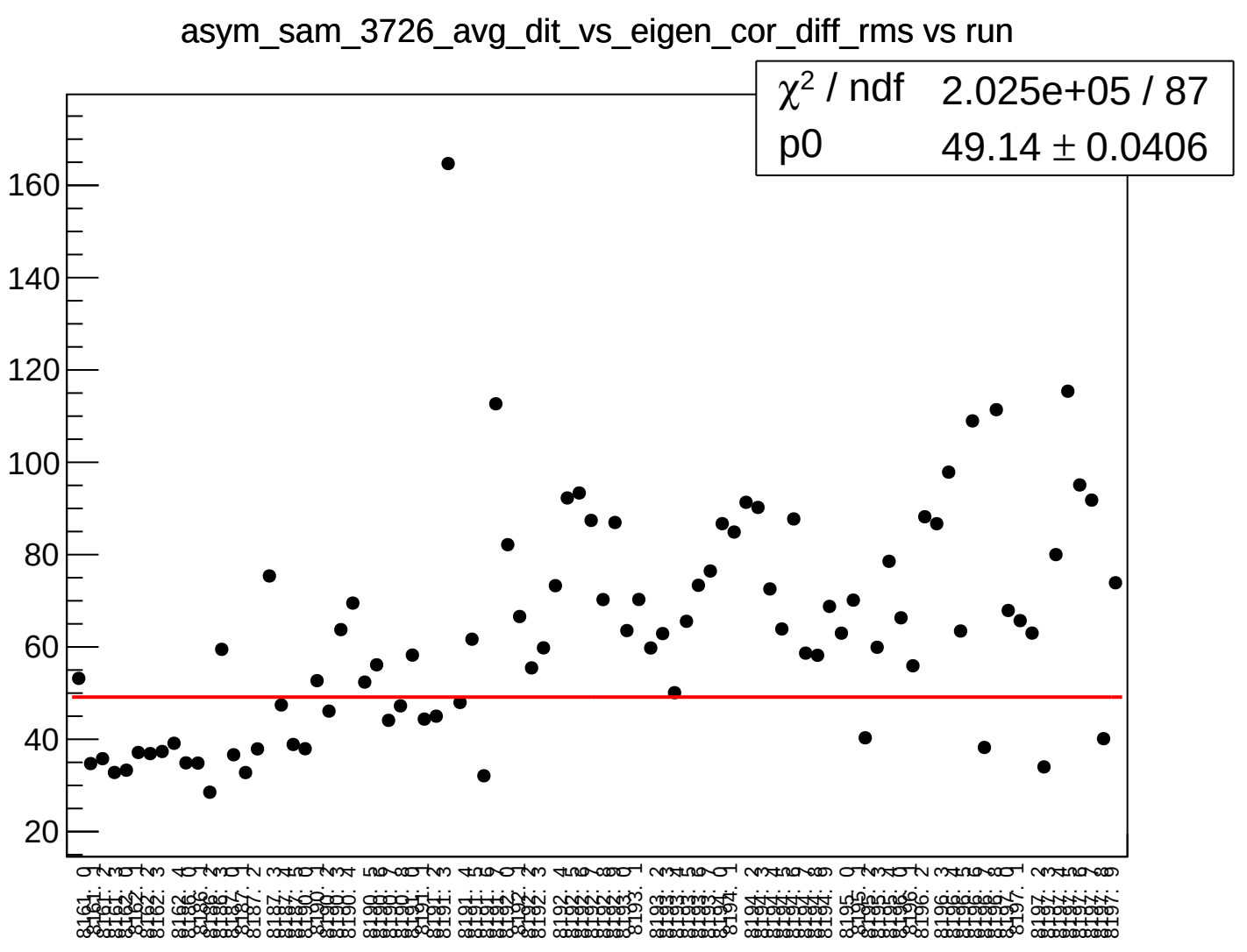

pull1D
Entries 88
Mean 0.01728
Std Dev 0.9976
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

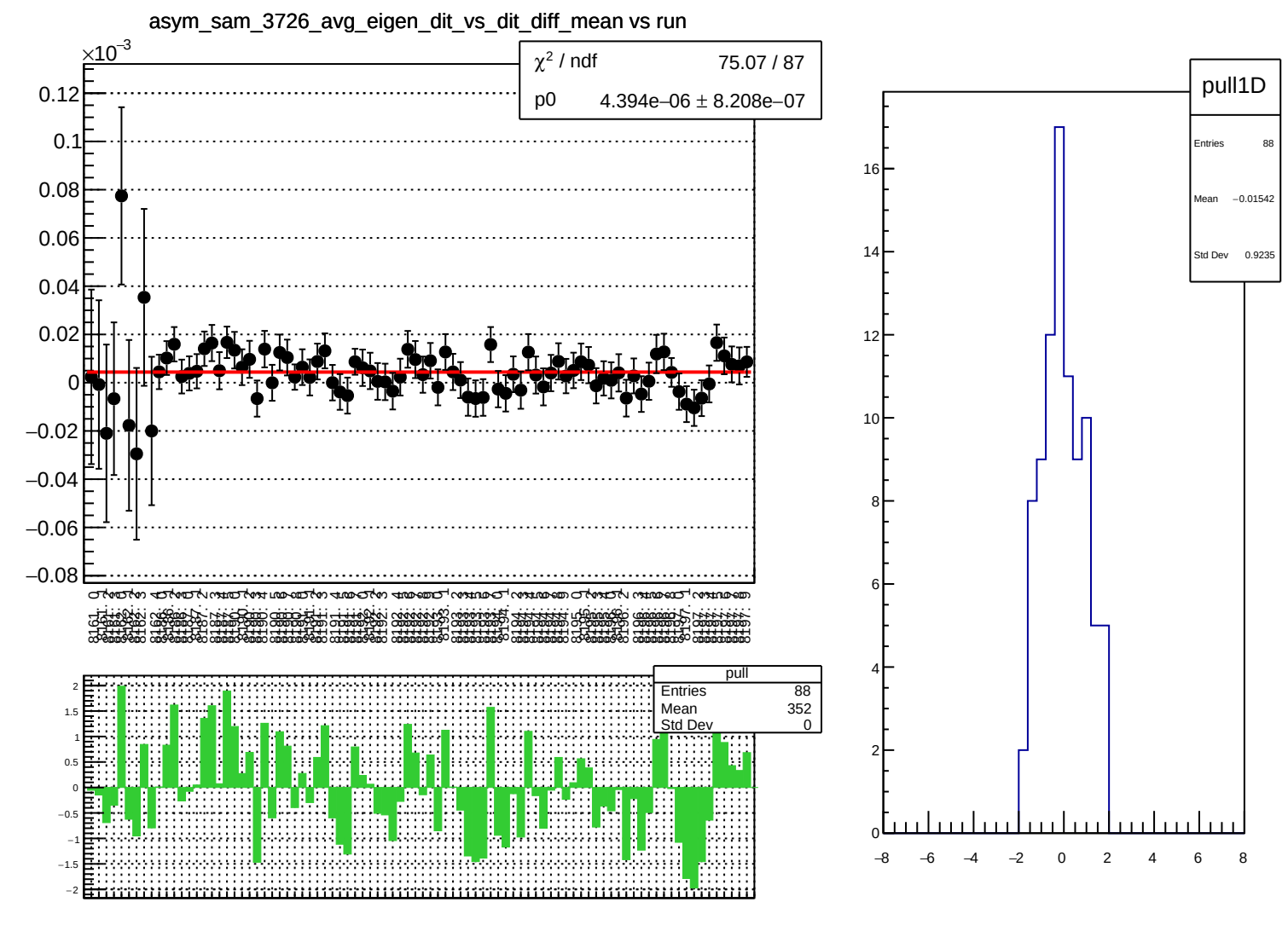

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.504e+05 / 87
p0 1.128e−10 ± 1.248e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

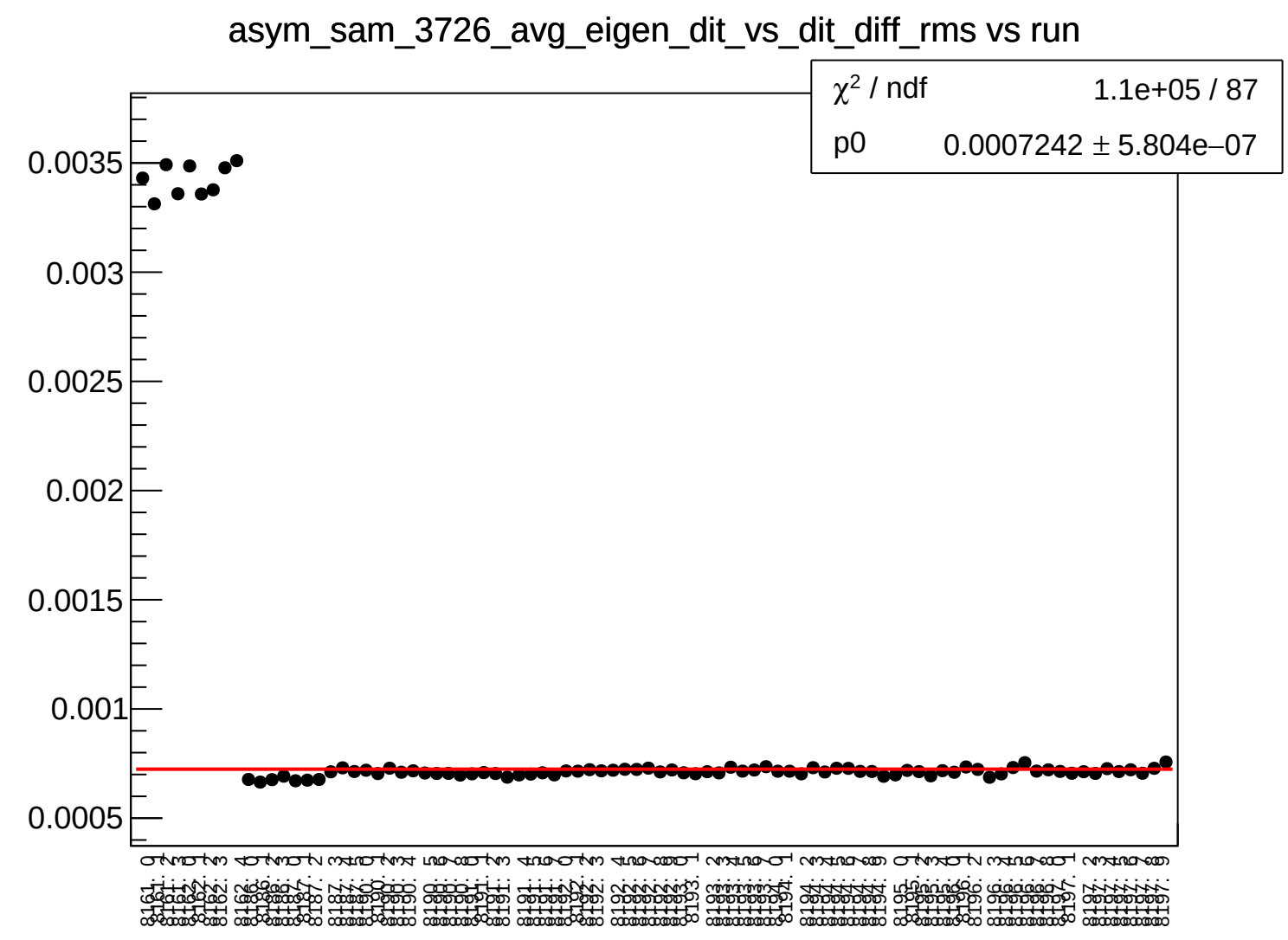

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 87
p0 0.07527 ± 0.05742
pull
Entries 88
Mean 117.2
Std Dev 0
pull1D
Entries 88
Mean −0.03287
Std Dev 1.07

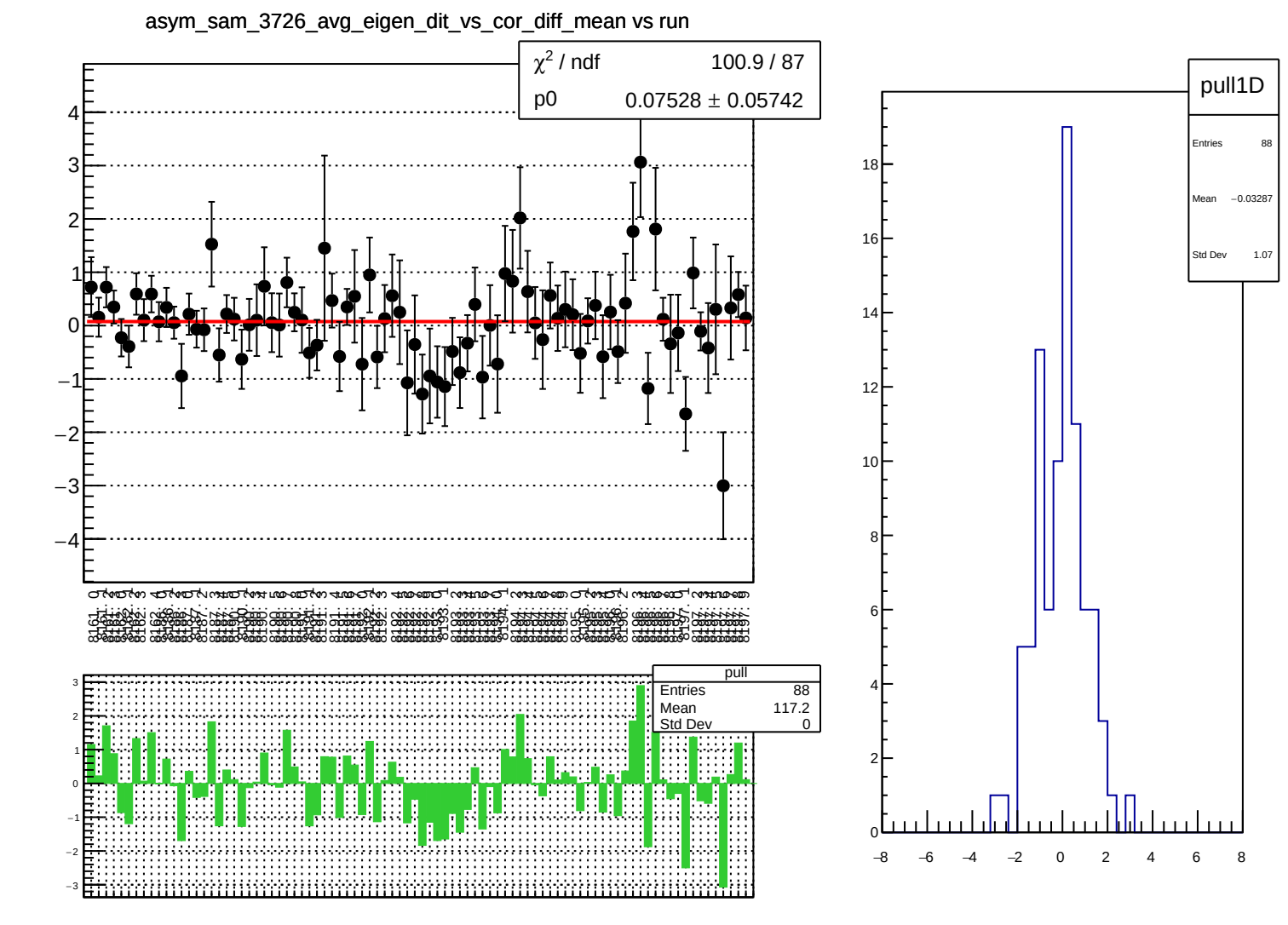

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 87
p0 49.14 ± 0.0406
160
140
120
100
80
60
40
20

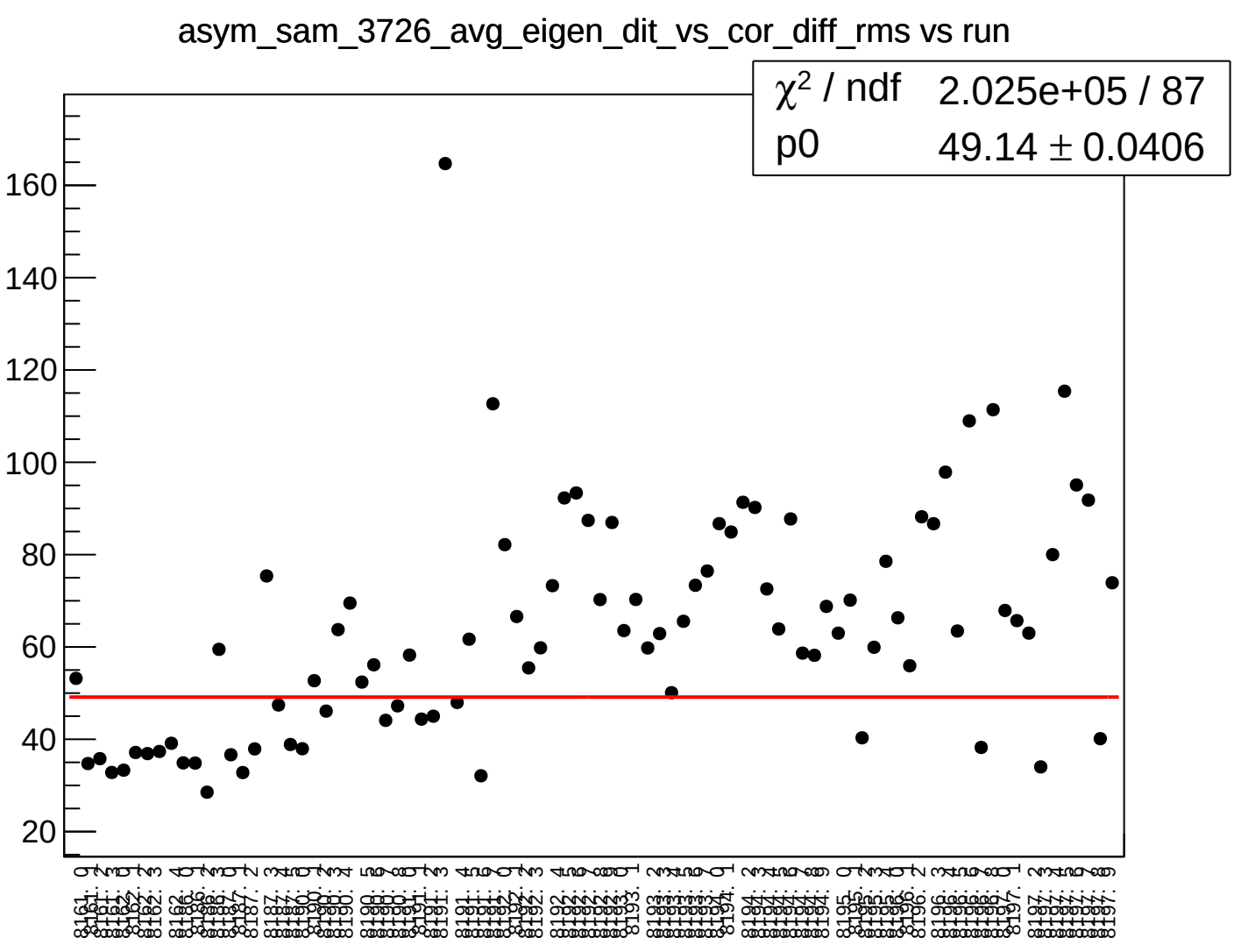

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 87
p0 0.07527 ± 0.05742
pull
Entries 88
Mean 117.2
Std Dev 0
pull1D
Entries 88
Mean −0.03287
Std Dev 1.07

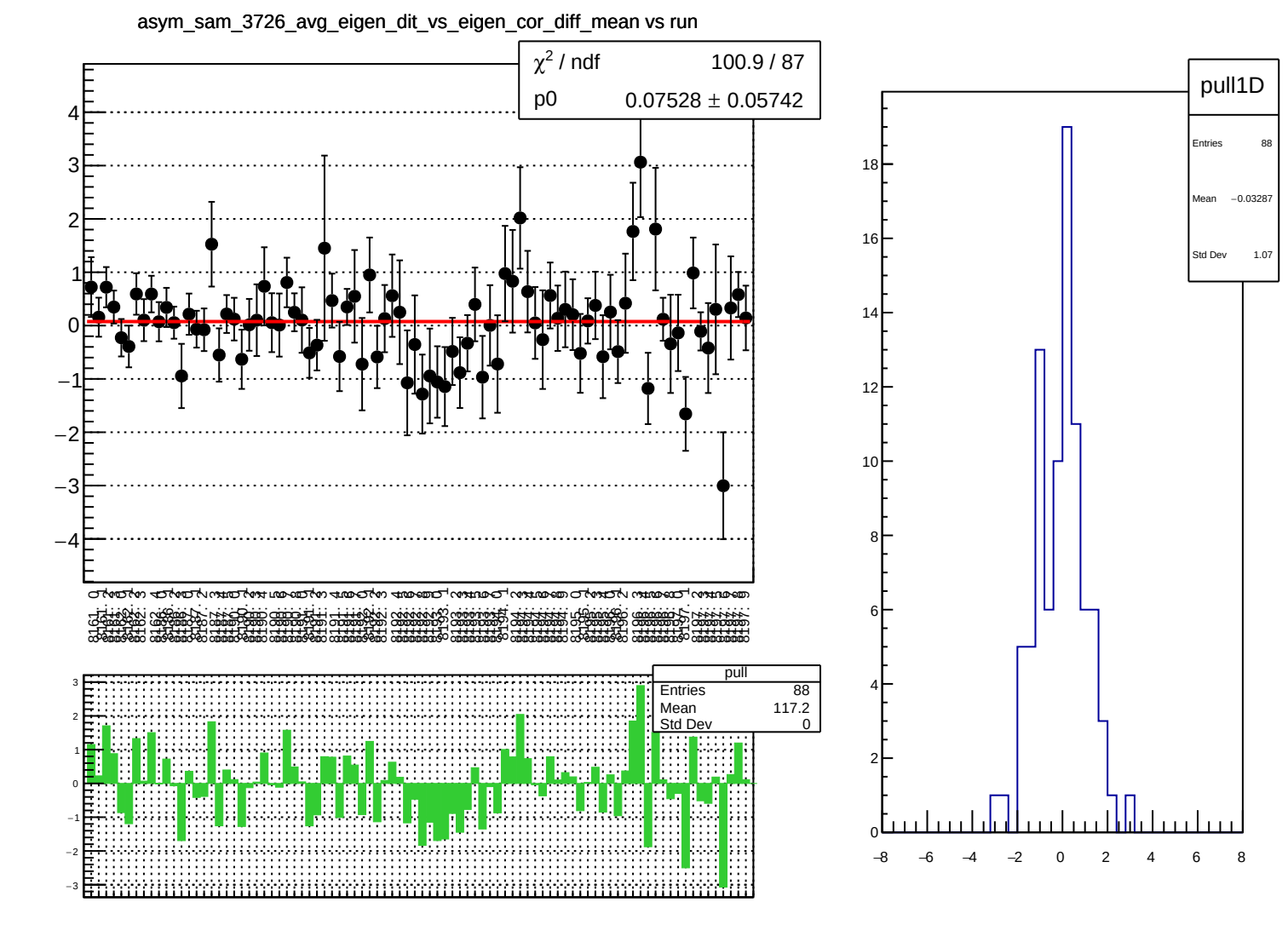

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 87
p0 49.14 ± 0.0406
160
140
120
100
80
60
40
20

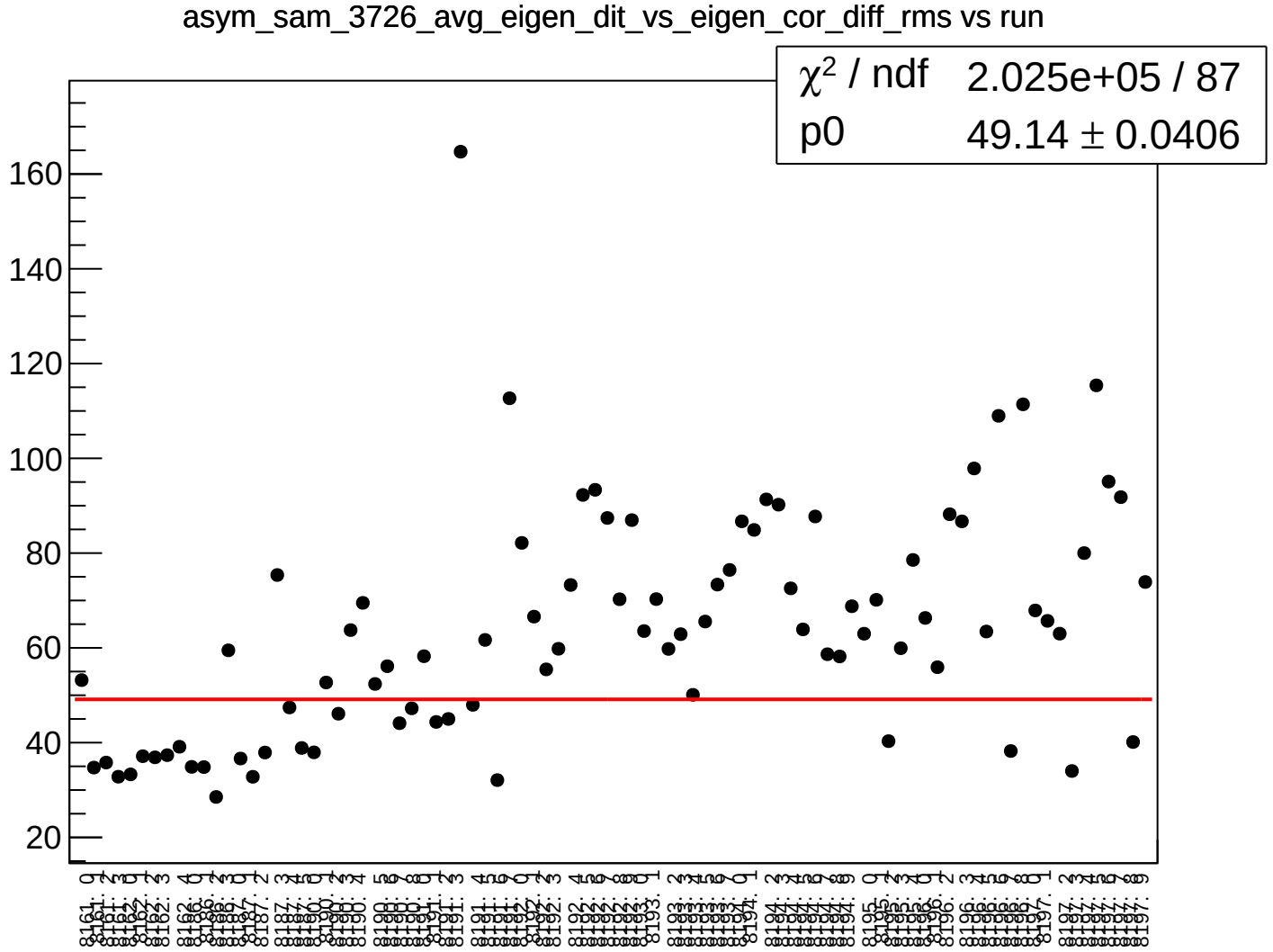

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.07 / 87
p0 4.394e−06 ± 8.208e−07
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean 352
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.01542
Std Dev 0.9235
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

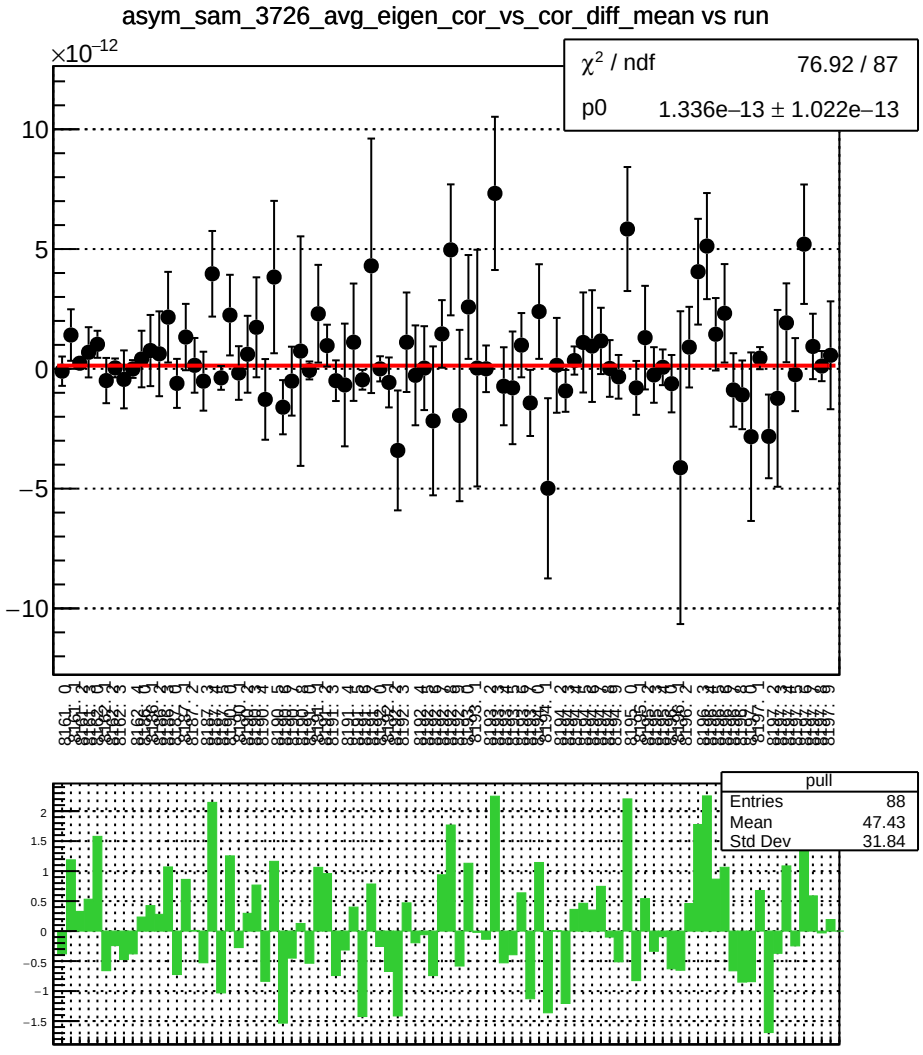

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.1e+05 / 87
p0 0.0007242 ± 5.804e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

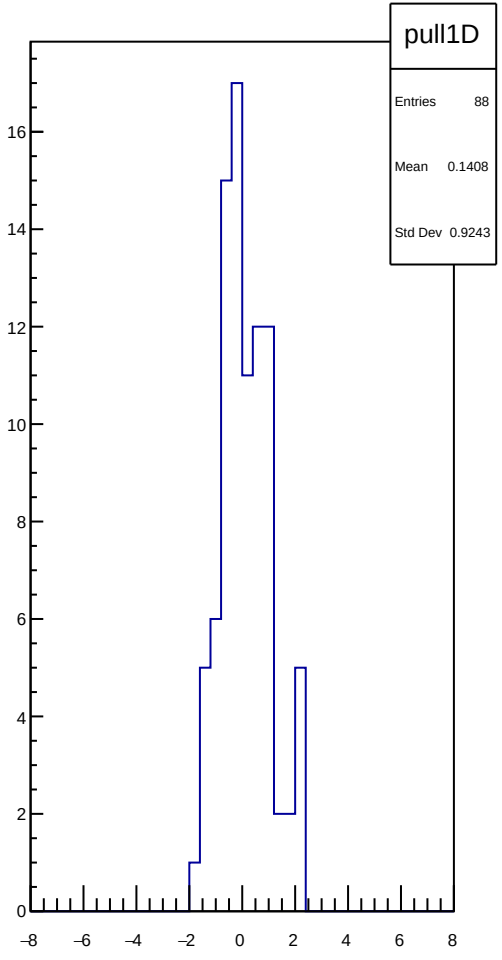

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 87
p0 0.07528 ± 0.05742
pull
Entries 88
Mean 117.2
Std Dev 0
pull1D
Entries 88
Mean −0.03287
Std Dev 1.07

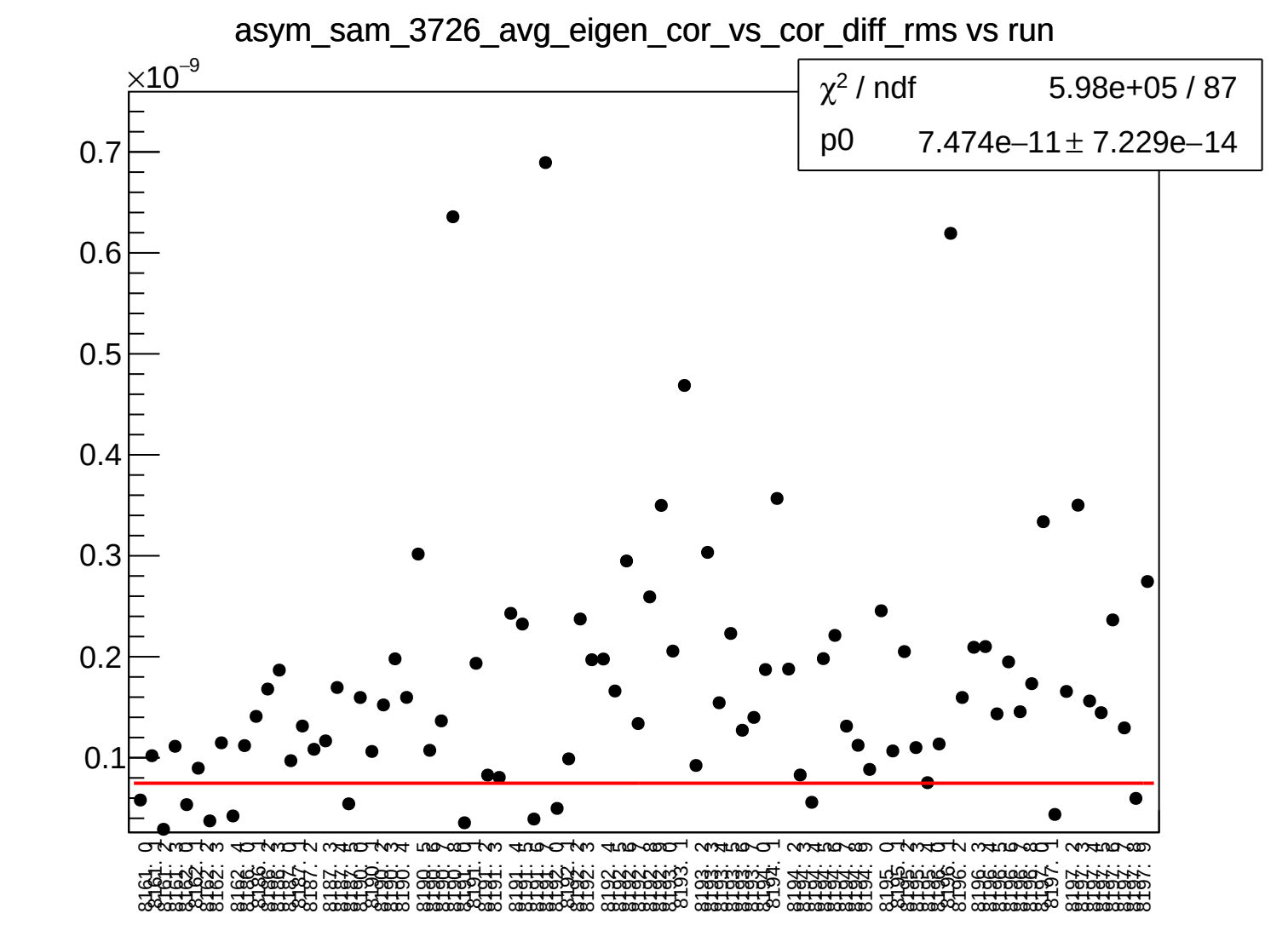

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 87
p0 49.14 ± 0.0406
160
140
120
100
80
60
40
20

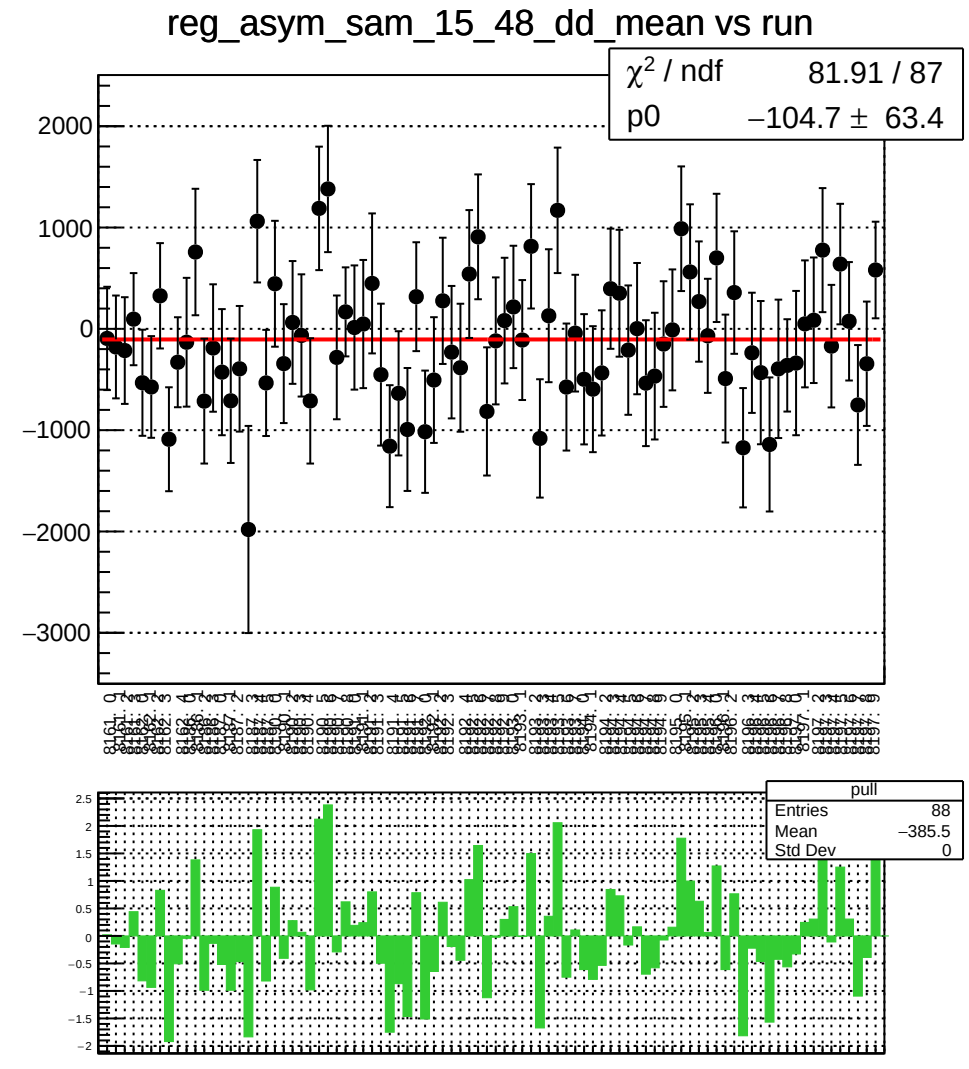

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 87
p0 0.07528 ± 0.05742
pull
Entries 88
Mean 117.2
Std Dev 0
pull1D
Entries 88
Mean −0.03287
Std Dev 1.07

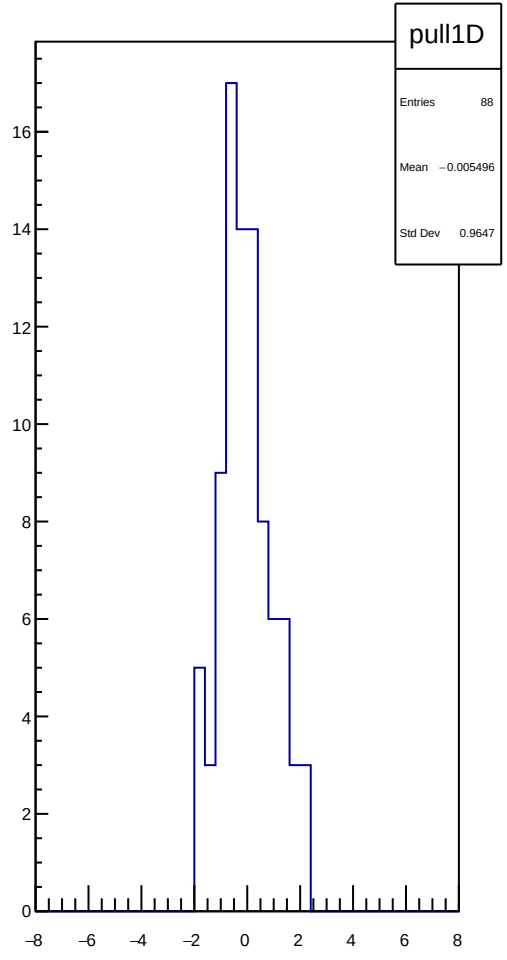

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 87
p0 49.14 ± 0.0406
160
140
120
100
80
60
40
20

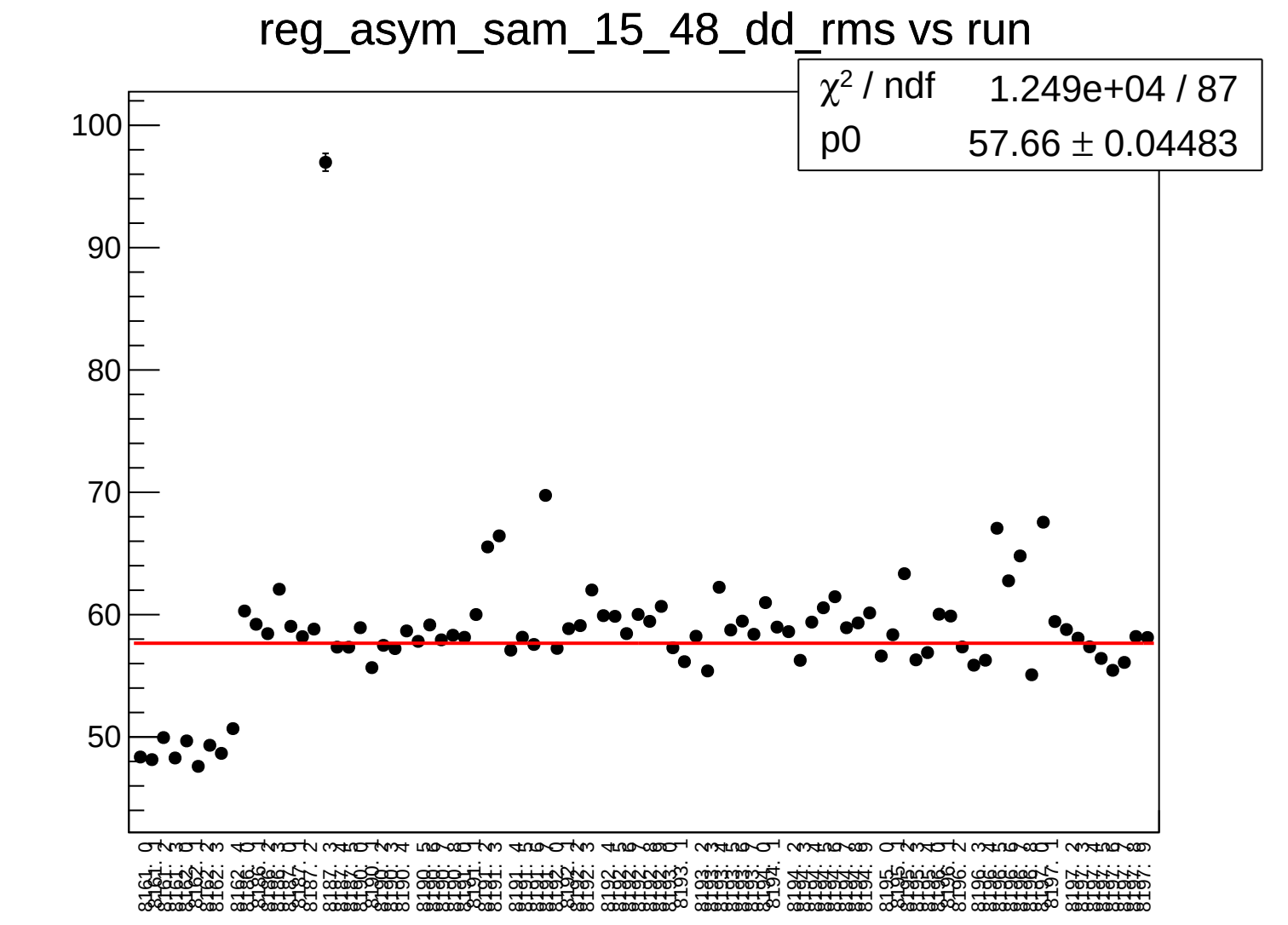

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.92 / 87
p0 1.336e−13 ± 1.022e−13
10
5
0
−5
−10
pull
Entries 88
Mean 47.43
Std Dev 31.84
2
1.5
1
0.5
0
−0.5
−1
−1.5

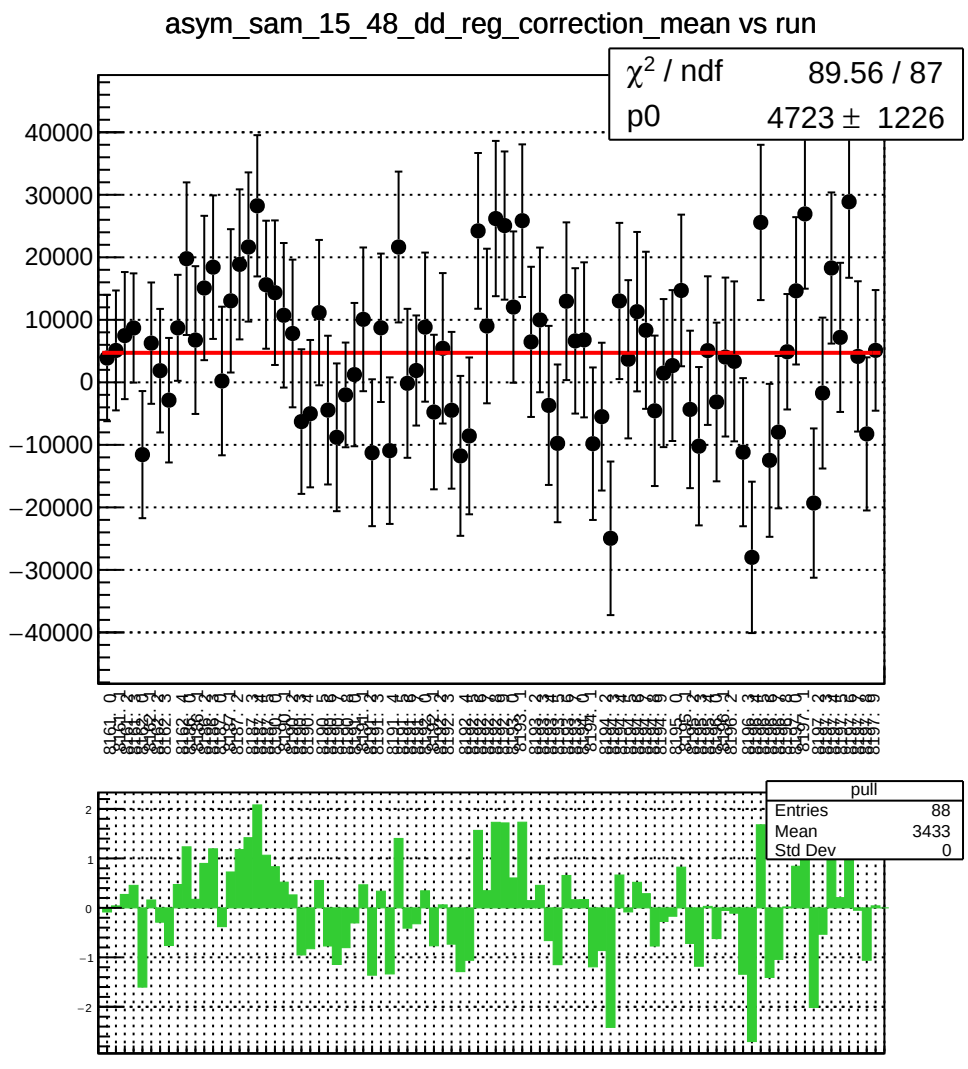

pull1D
Entries 88
Mean 0.1408
Std Dev 0.9243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

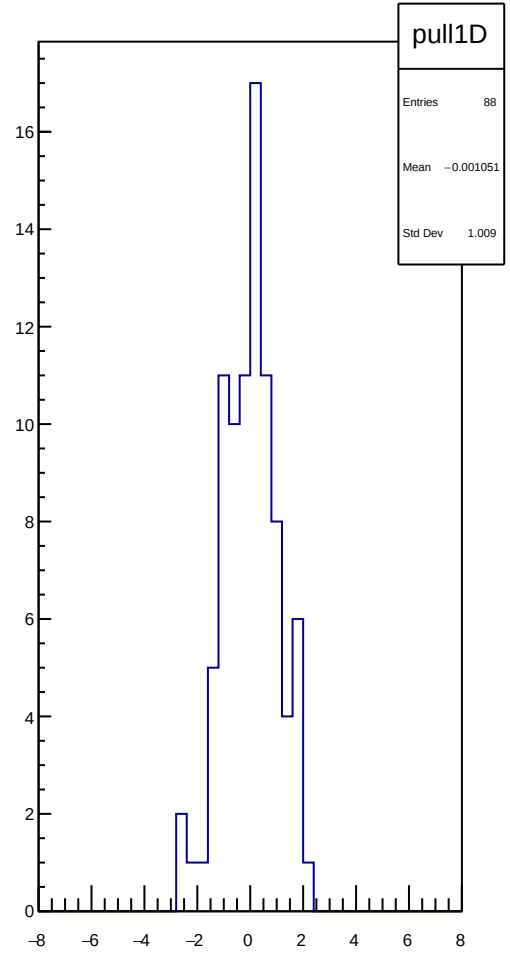

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.98e+05 / 87
p0 7.474e−11 ± 7.229e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

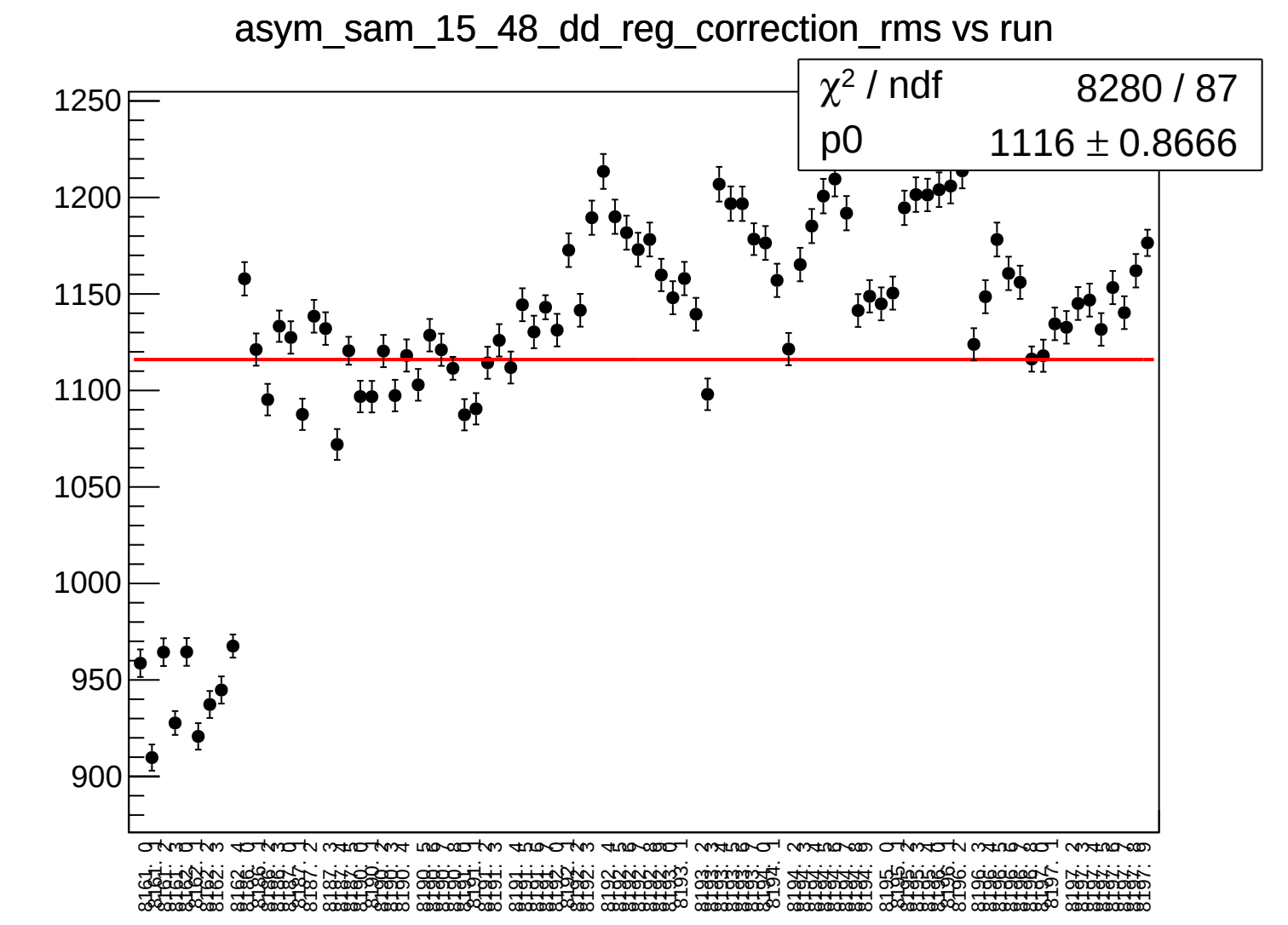

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.91 / 87
p0 −104.7 ± 63.4
pull
Entries 88
Mean −385.5
Std Dev 0

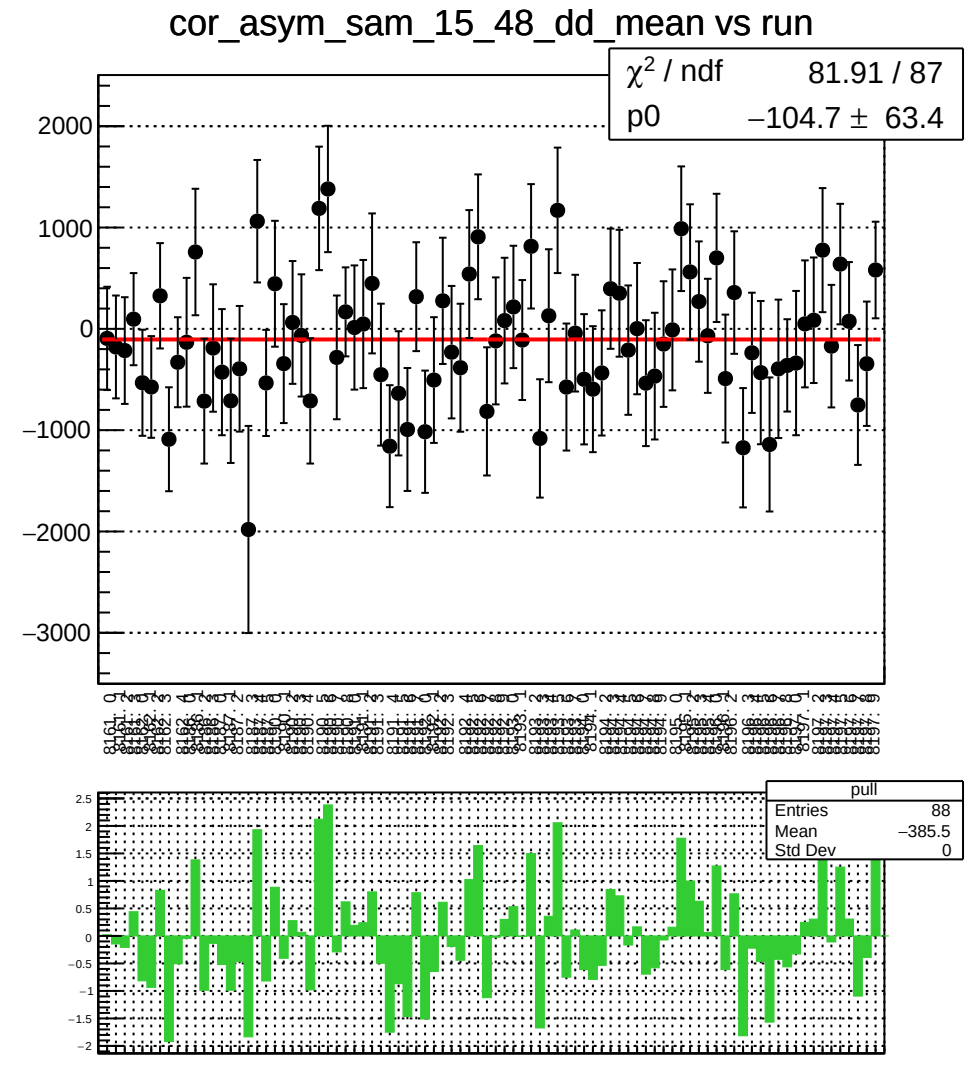

pull1D
Entries 88
Mean −0.005496
Std Dev 0.9647

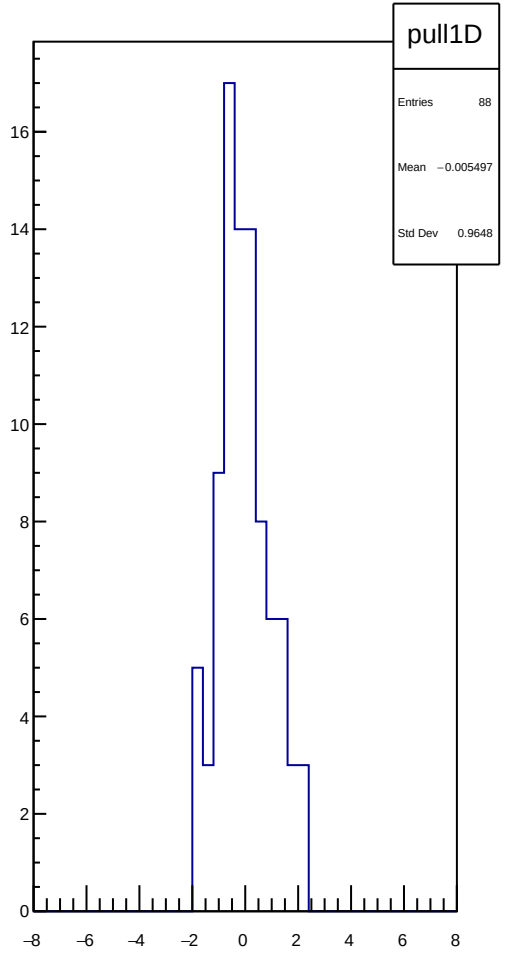

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.249e+04 / 87
p0 57.66 ± 0.04483
100
90
80
70
60
50

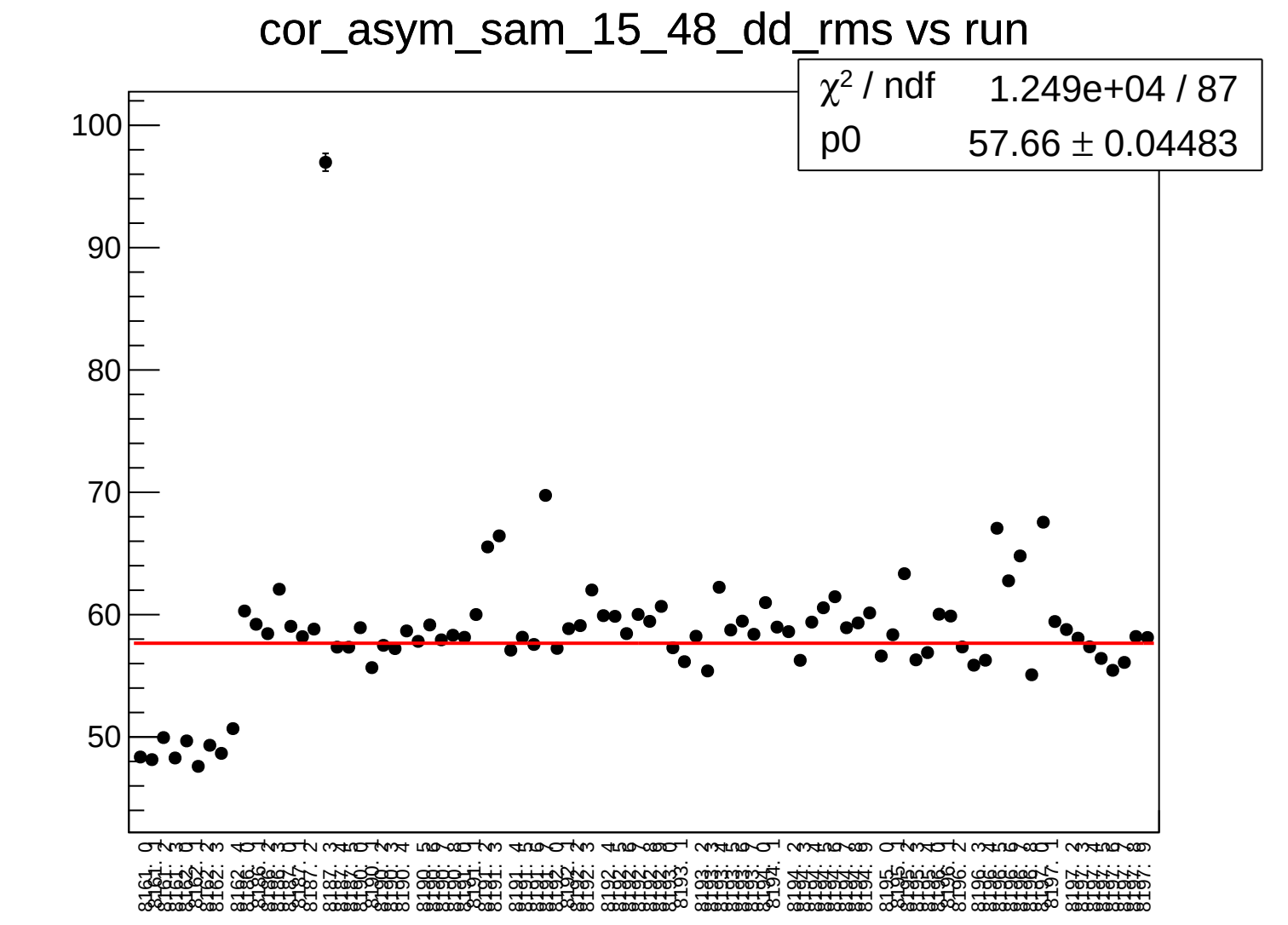

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 89.56 / 87
p0 4723 ± 1226
pull
Entries 88
Mean 3433
Std Dev 0

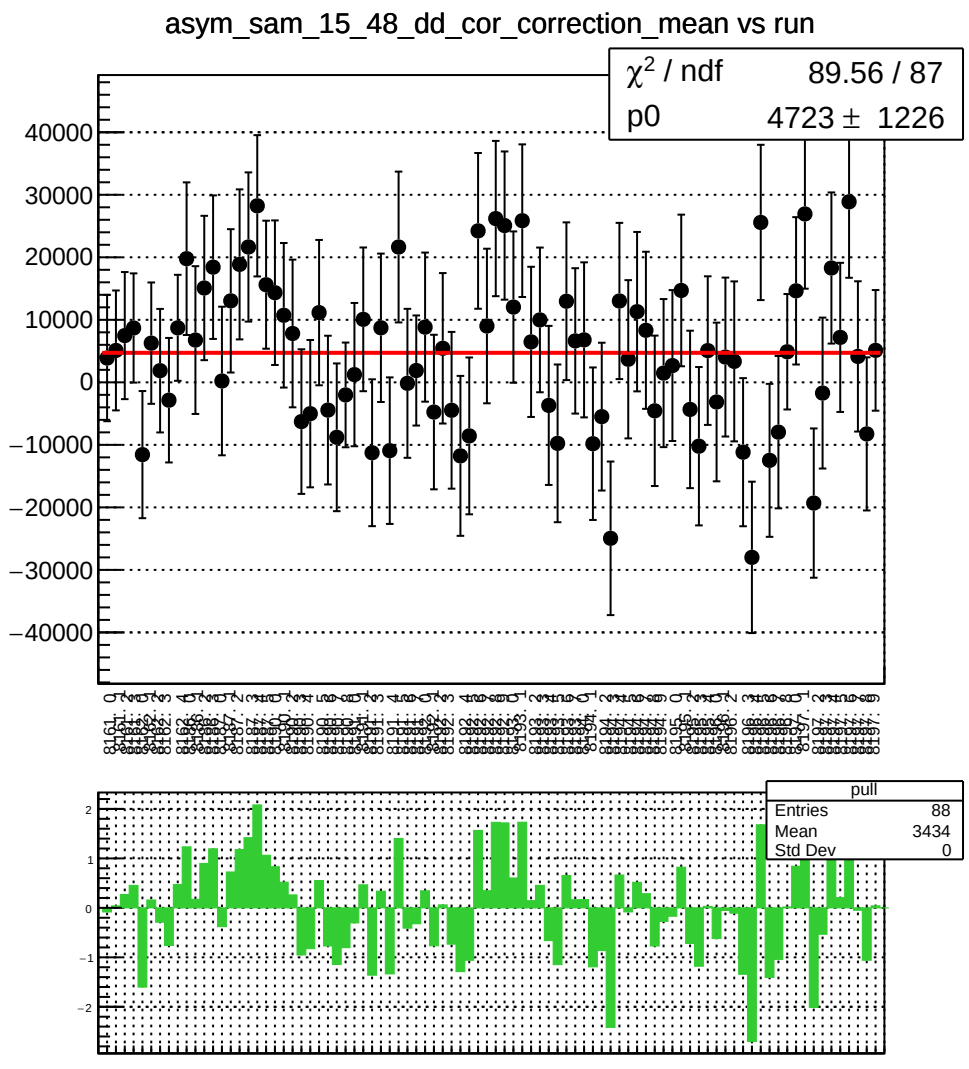

pull1D
Entries 88
Mean −0.001051
Std Dev 1.009

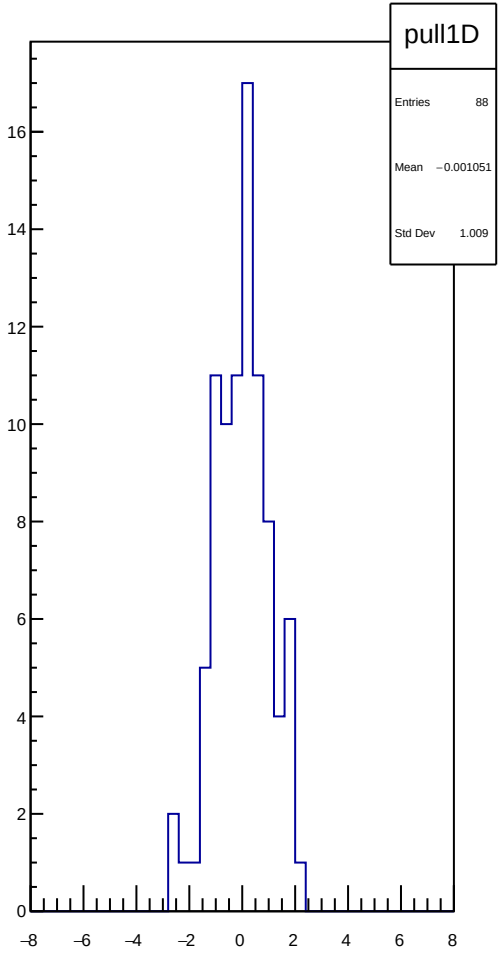

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 8280 / 87
p0 1116 ± 0.8666
1250
1200
1150
1100
1050
1000
950
900

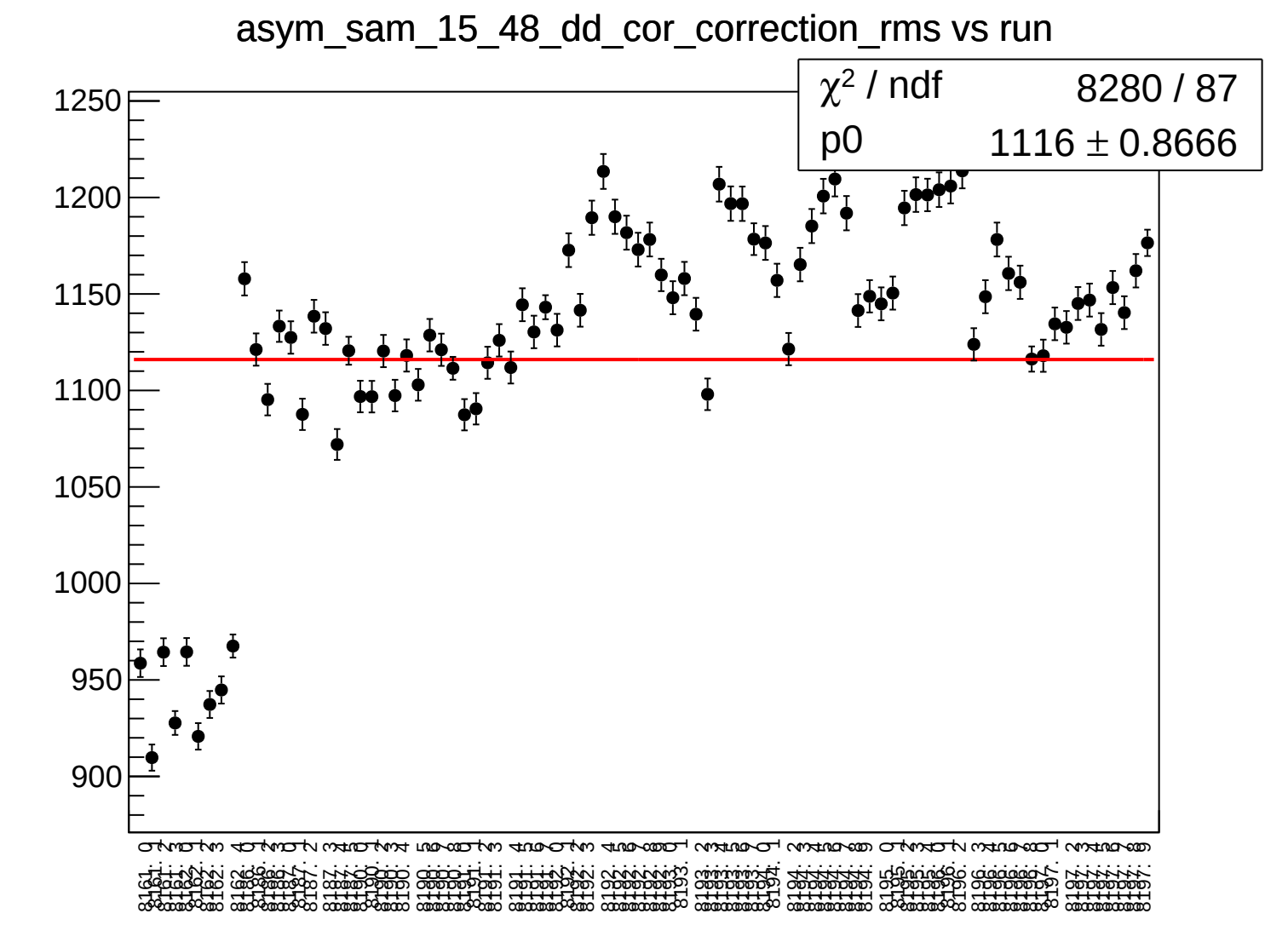

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.91 / 87
p0 −104.7 ± 63.4
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −385.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

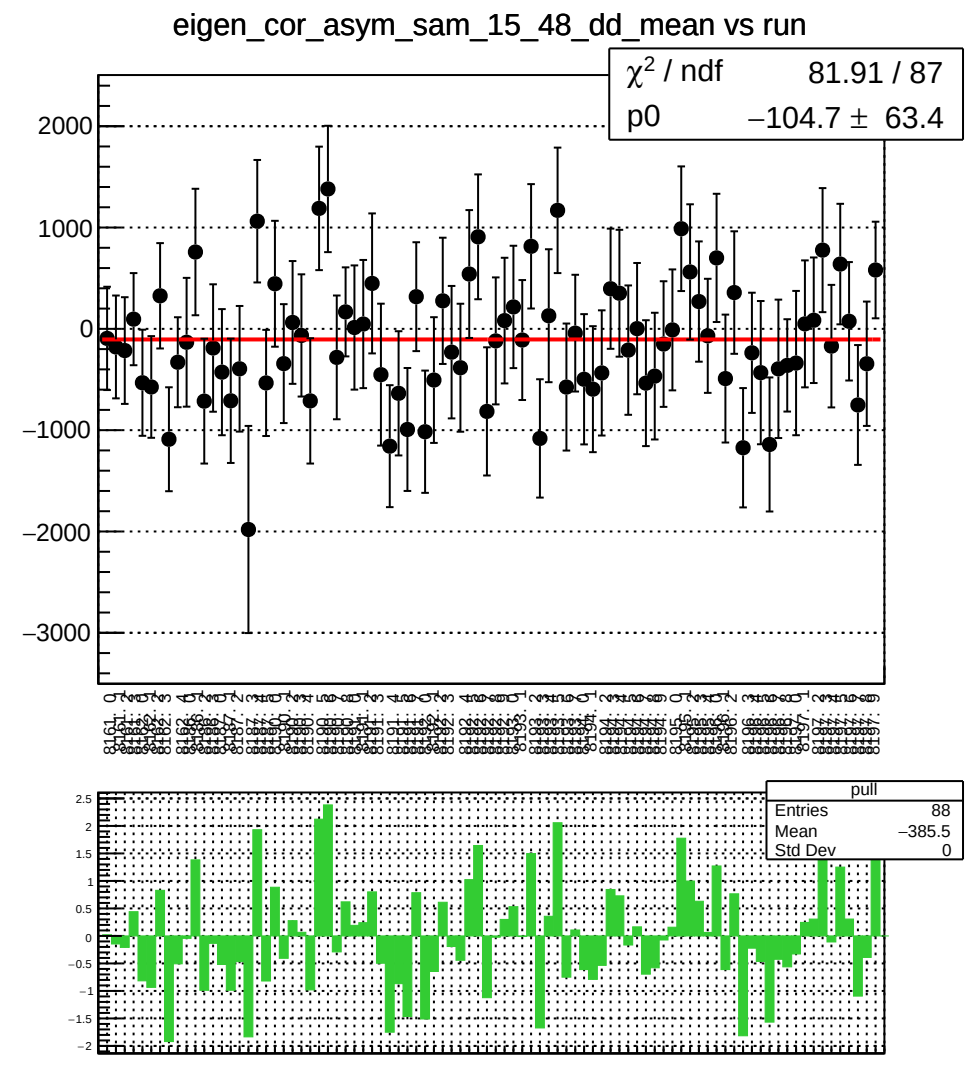

pull1D
Entries 88
Mean −0.005497
Std Dev 0.9648
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

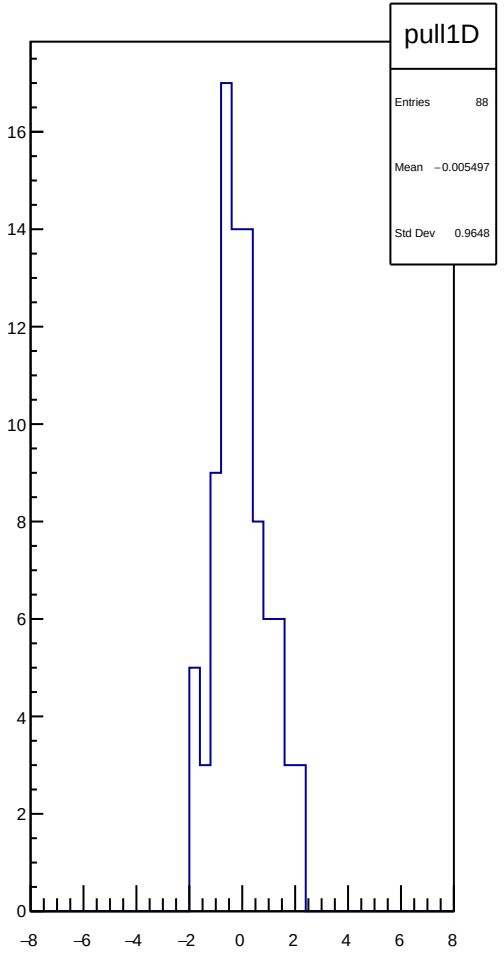

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.249e+04 / 87
p0 57.66 ± 0.04483
100
90
80
70
60
50

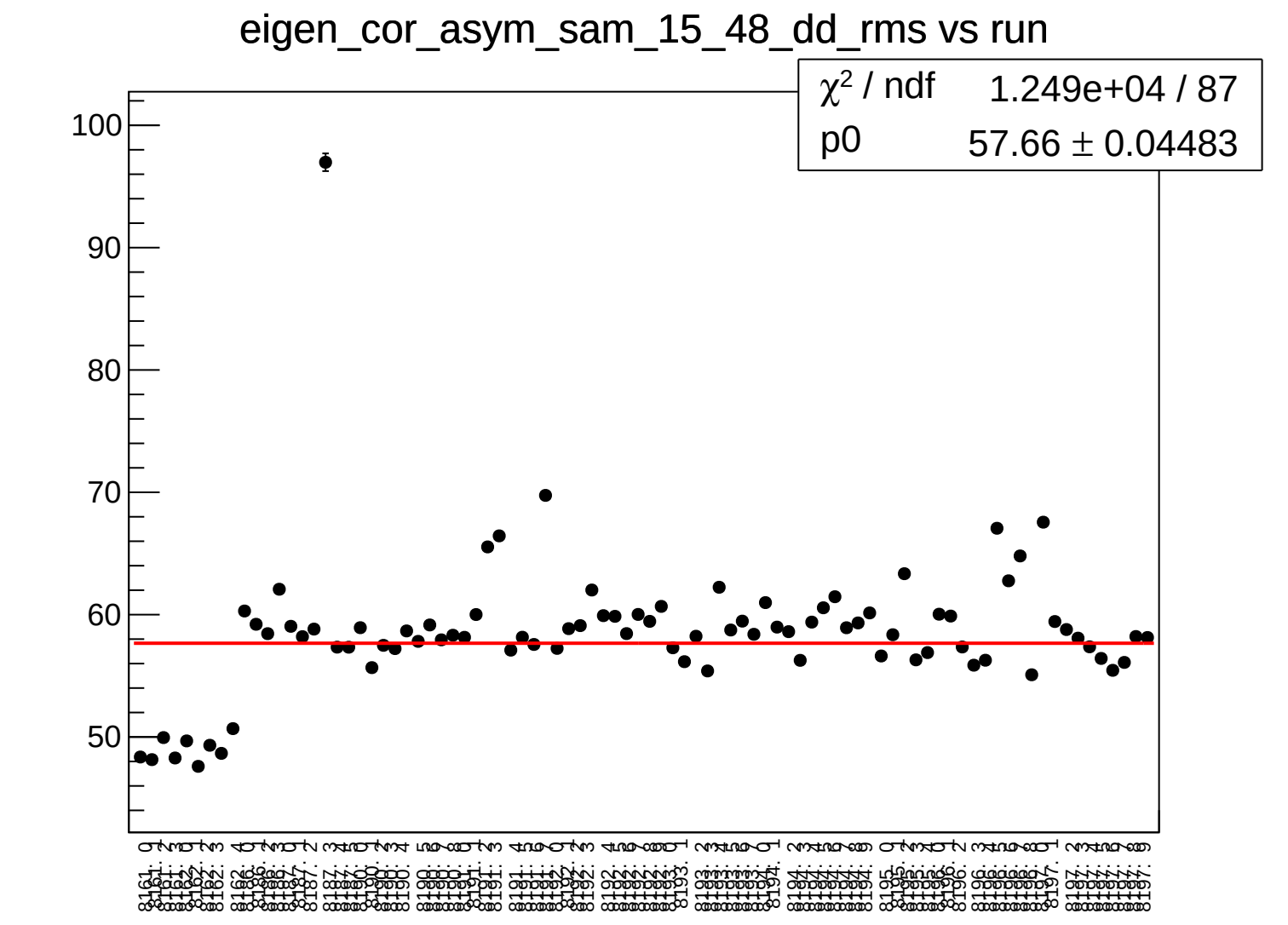

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 89.56 / 87
p0 4723 ± 1226
pull
Entries 88
Mean 3434
Std Dev 0

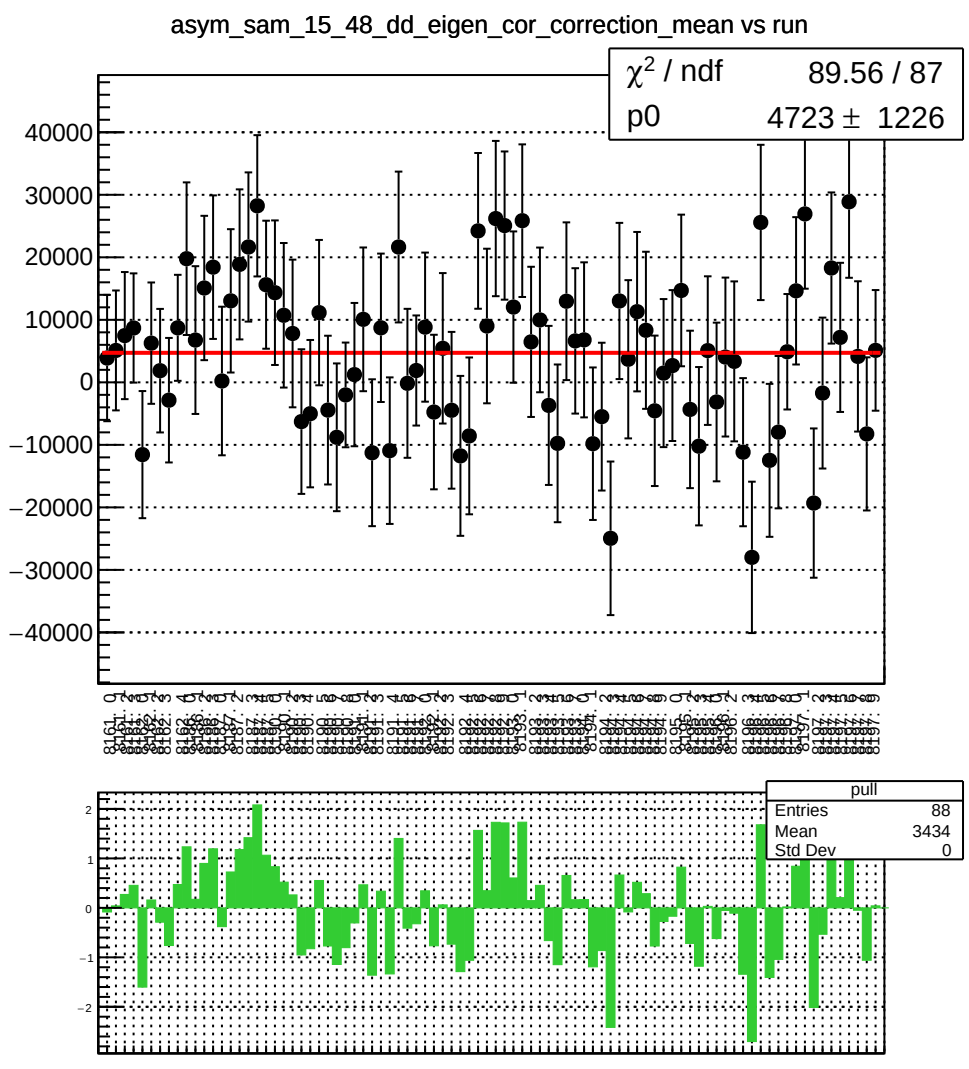

pull1D
Entries 88
Mean −0.001051
Std Dev 1.009

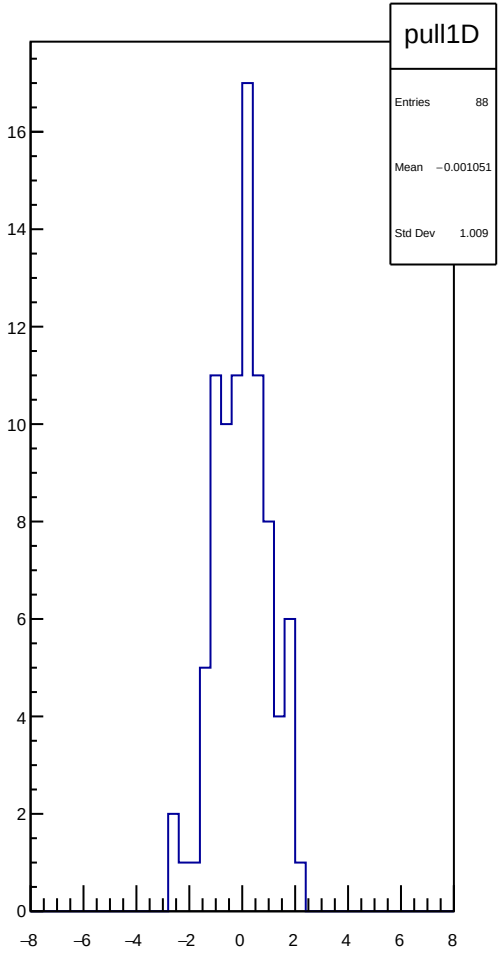

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 8280 / 87
p0 1116 ± 0.8666
1250
1200
1150
1100
1050
1000
950
900

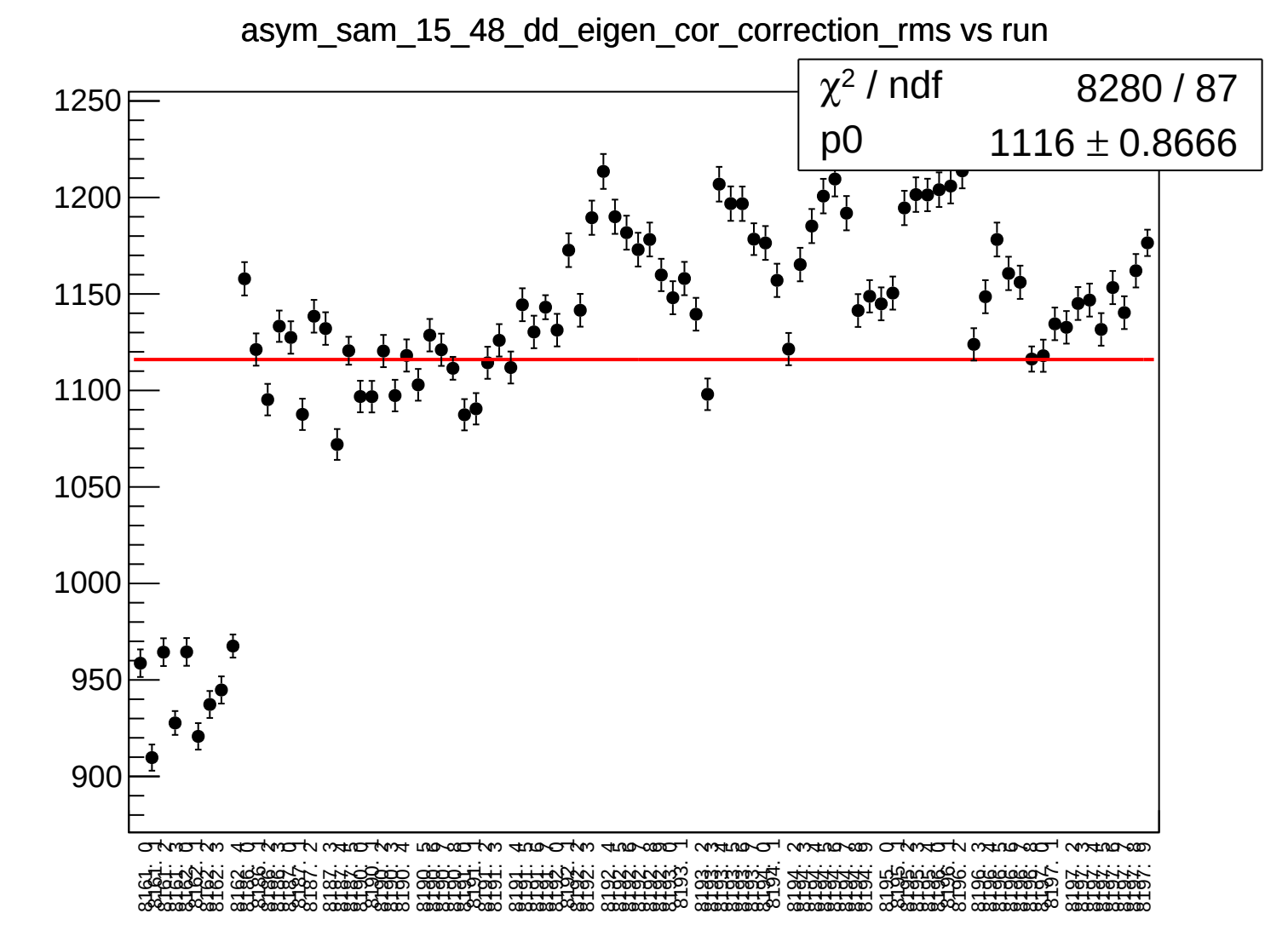

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 81.91 / 87
p0 −104.7 ± 63.4
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −385.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

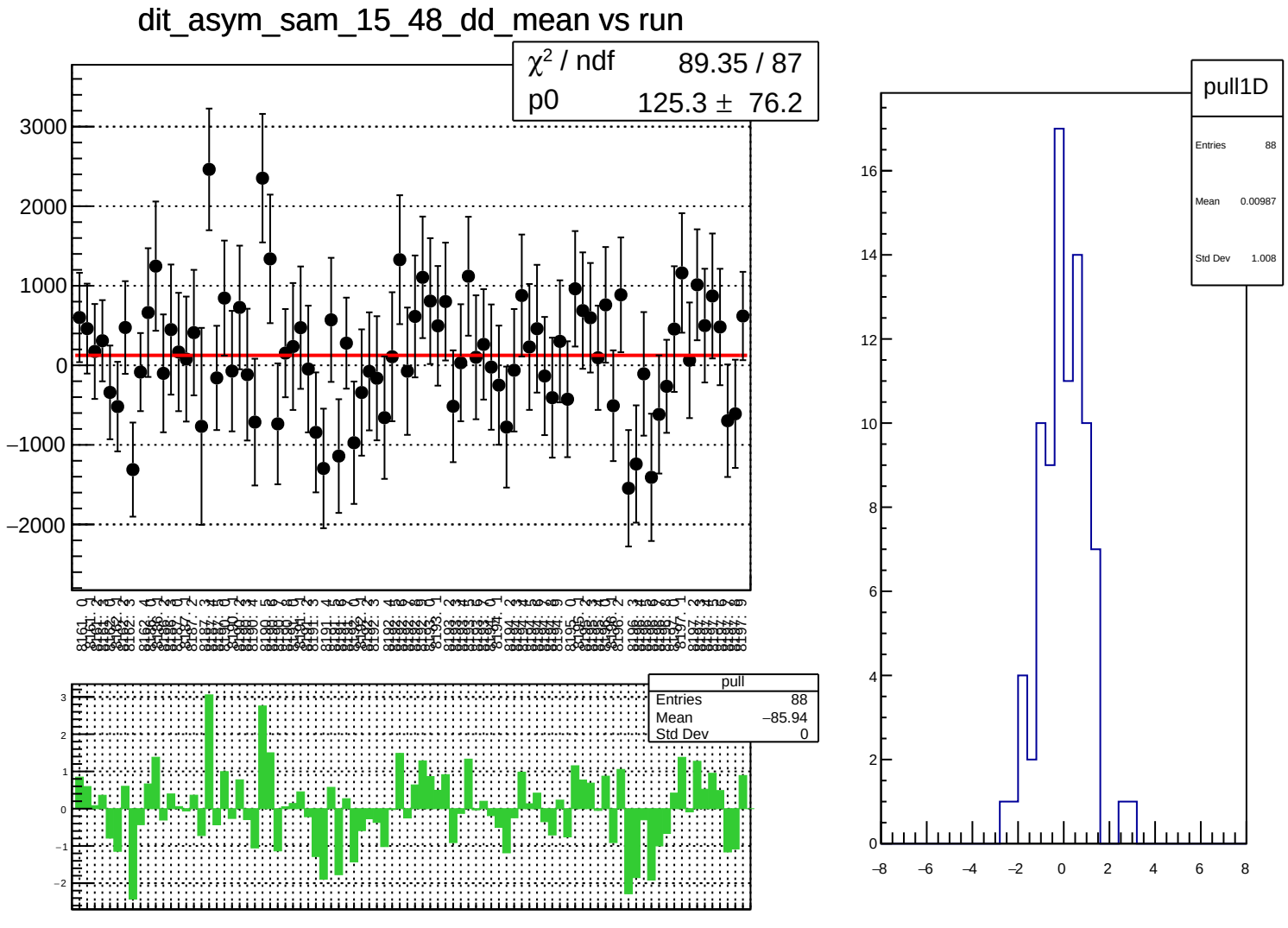

pull1D
Entries 88
Mean −0.005497
Std Dev 0.9648
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

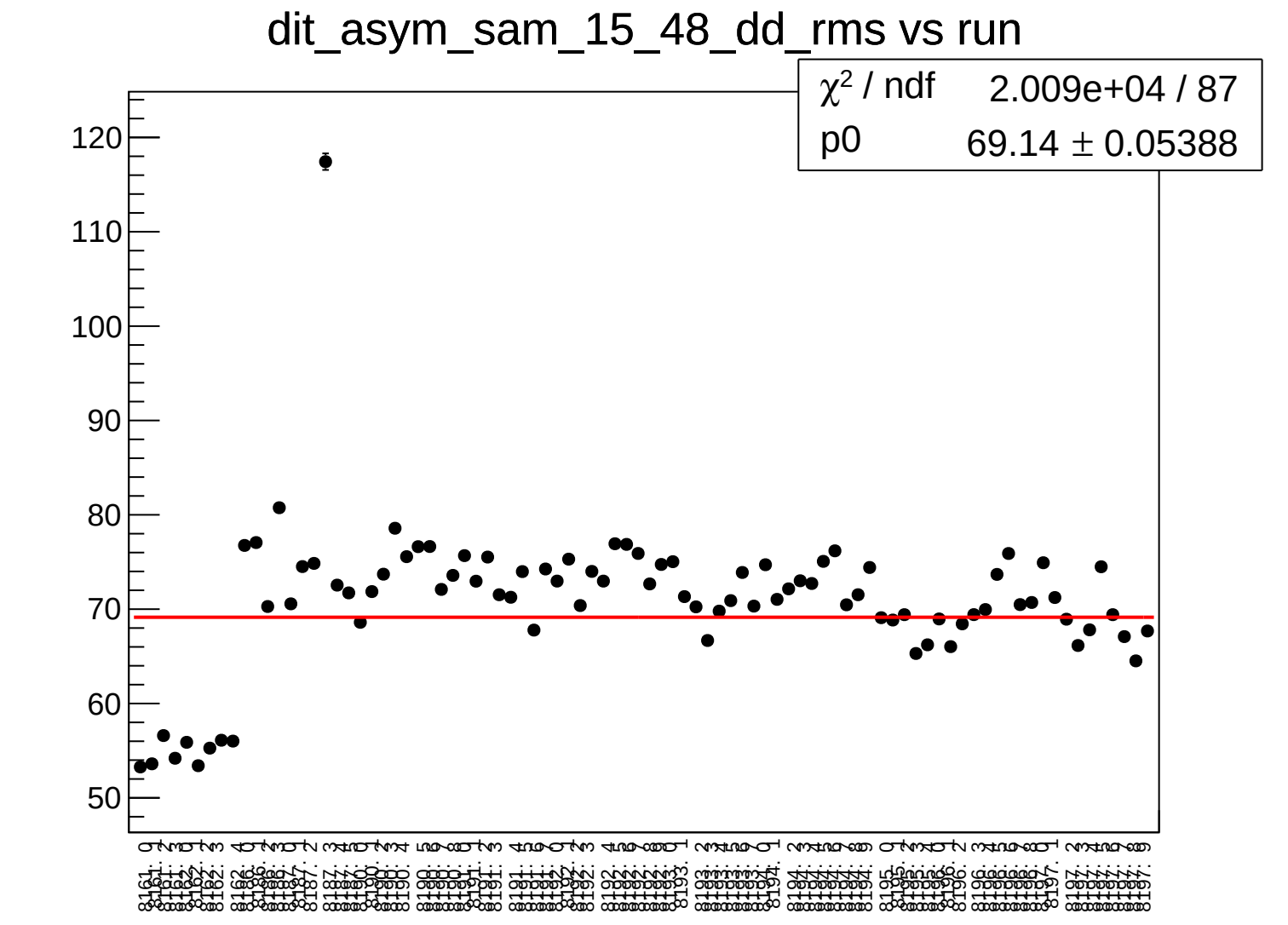

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.249e+04 / 87
p0 57.66 ± 0.04483
100
90
80
70
60
50

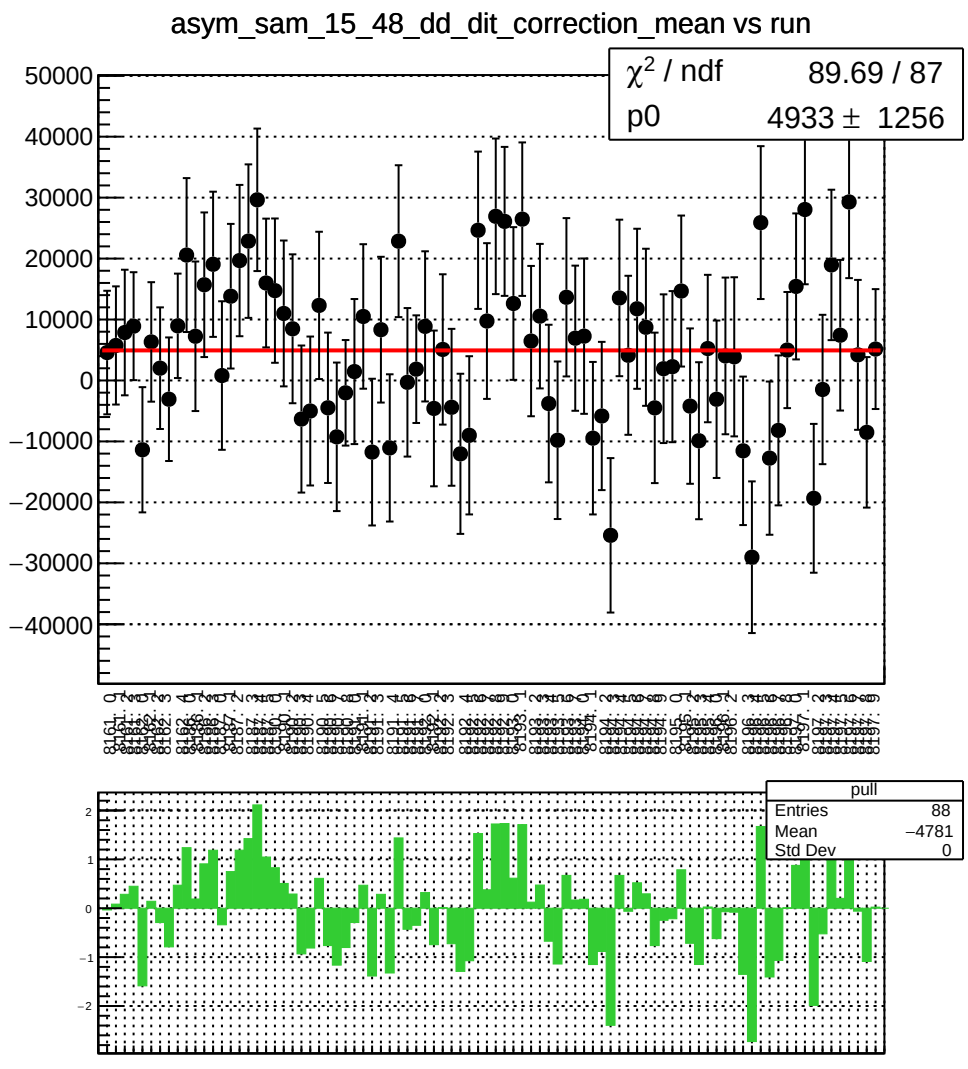

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.56 / 87
p0 4723 ± 1226
pull
Entries 88
Mean 3434
Std Dev 0

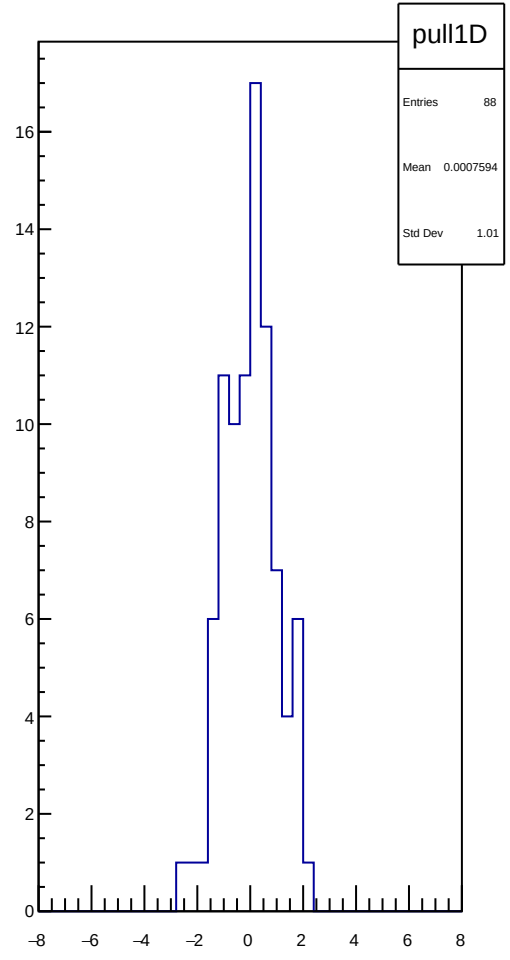

pull1D
Entries 88
Mean −0.001051
Std Dev 1.009

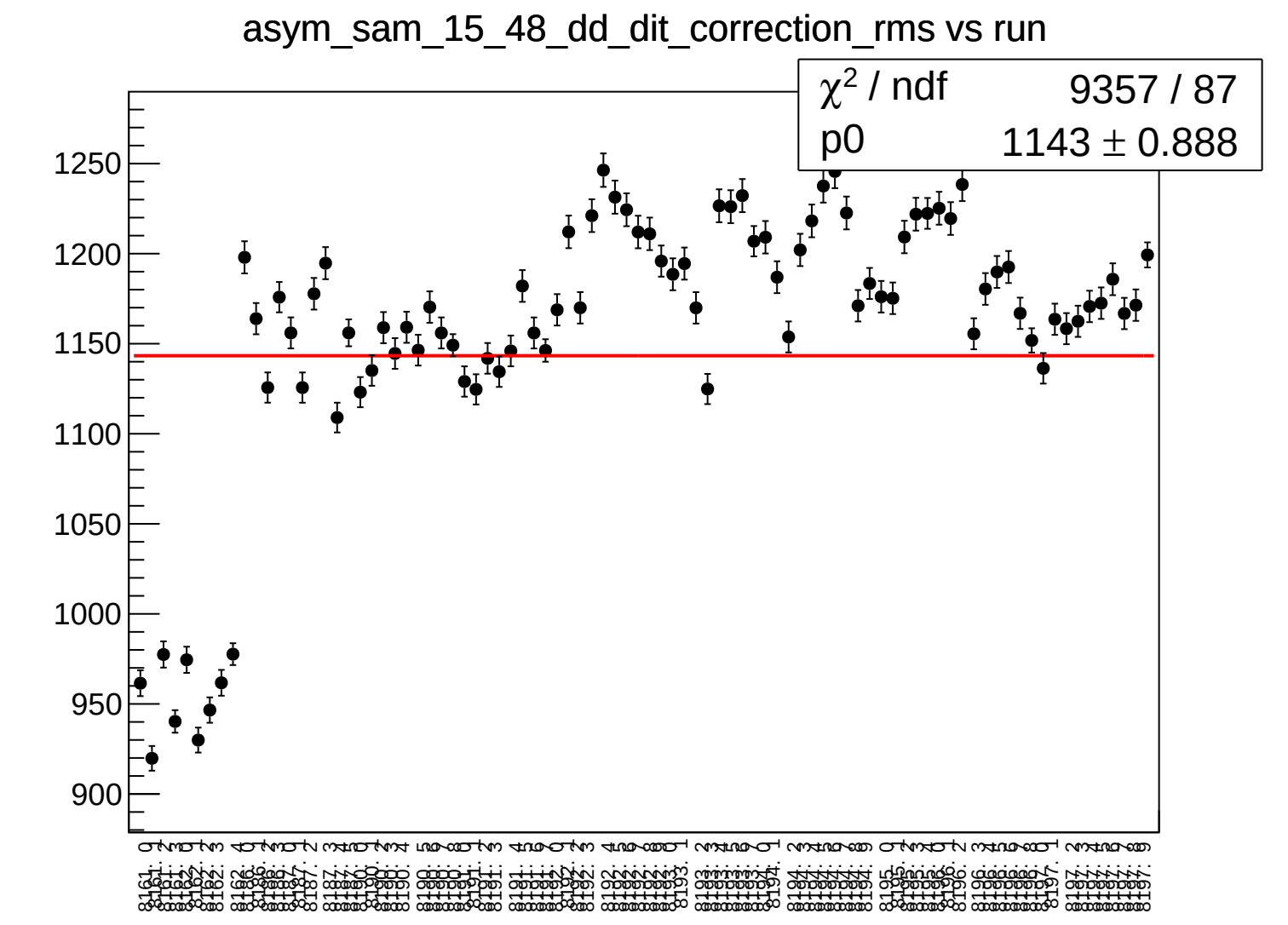

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8280 / 87
p0 1116 ± 0.8666
1250
1200
1150
1100
1050
1000
950
900

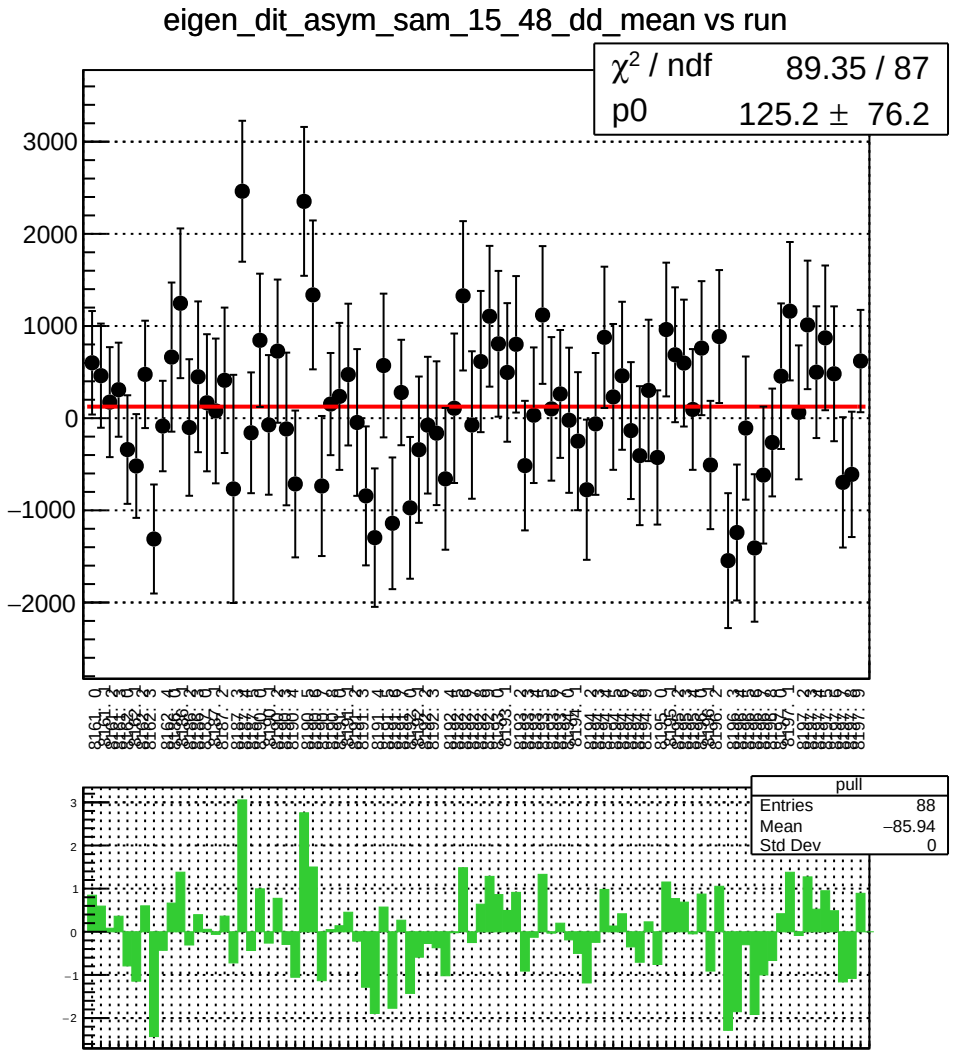

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 89.35 / 87
p0 125.3 ± 76.2
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −85.94
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.00987
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

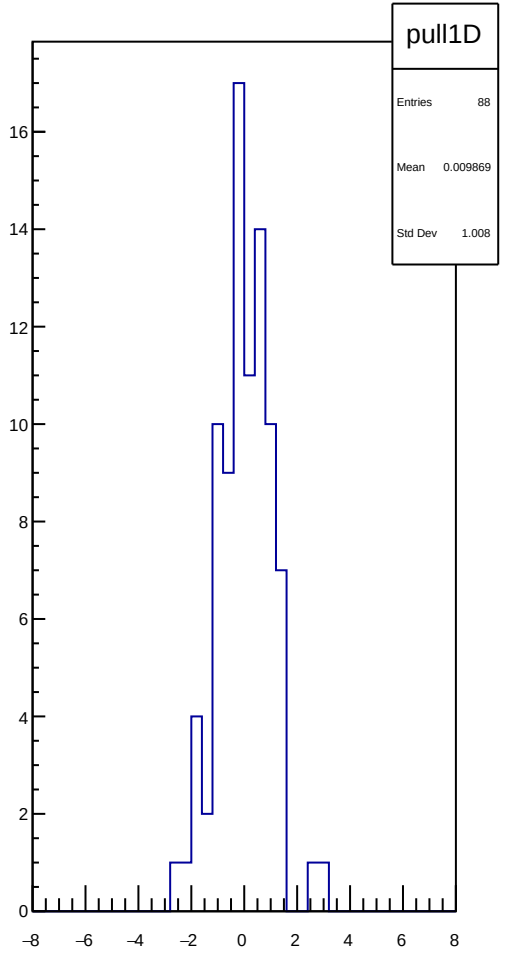

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.009e+04 / 87
p0 69.14 ± 0.05388
120
110
100
90
80
70
60
50

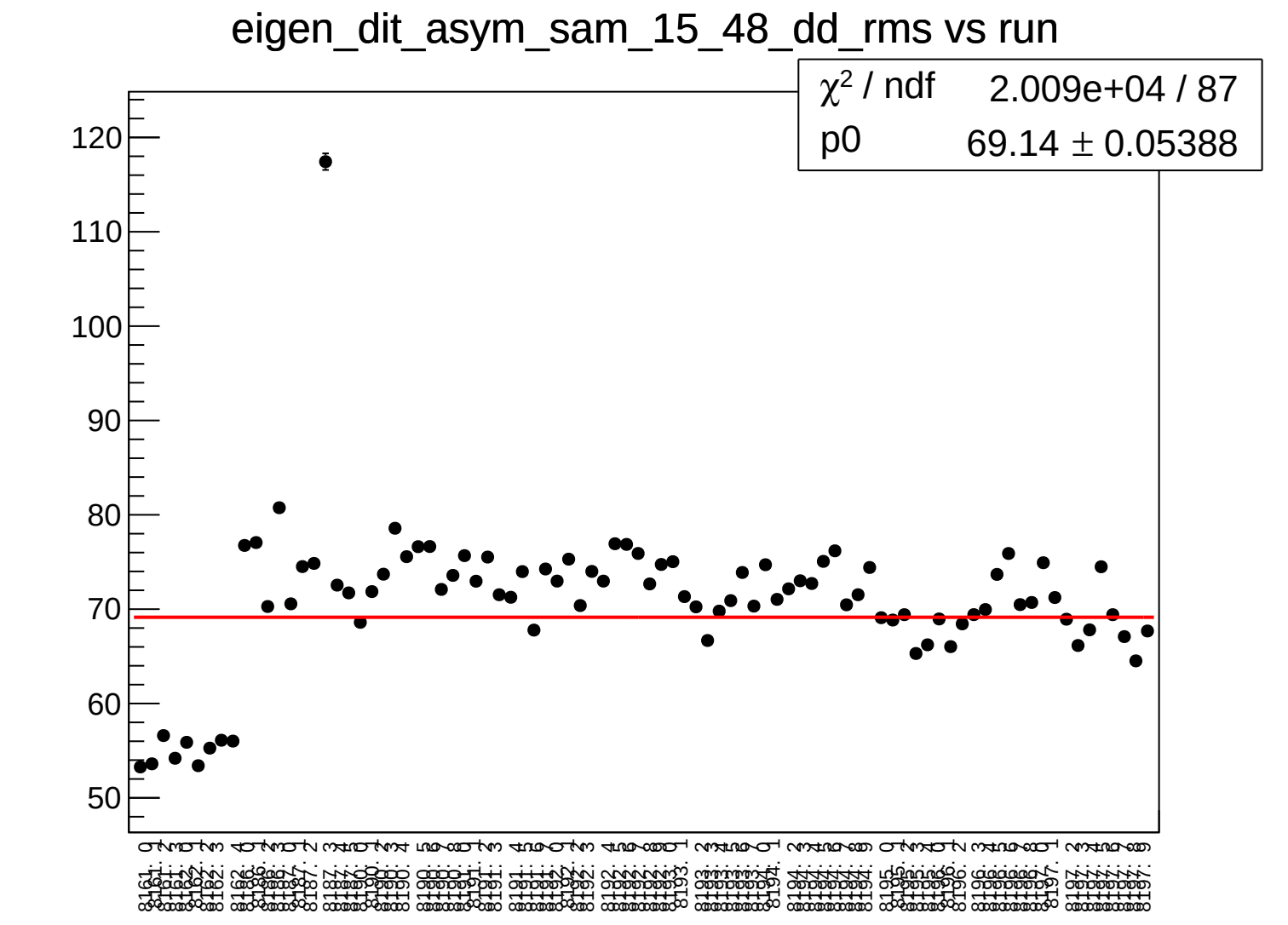

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 89.69 / 87
p0 4933 ± 1256
pull
Entries 88
Mean −4781
Std Dev 0

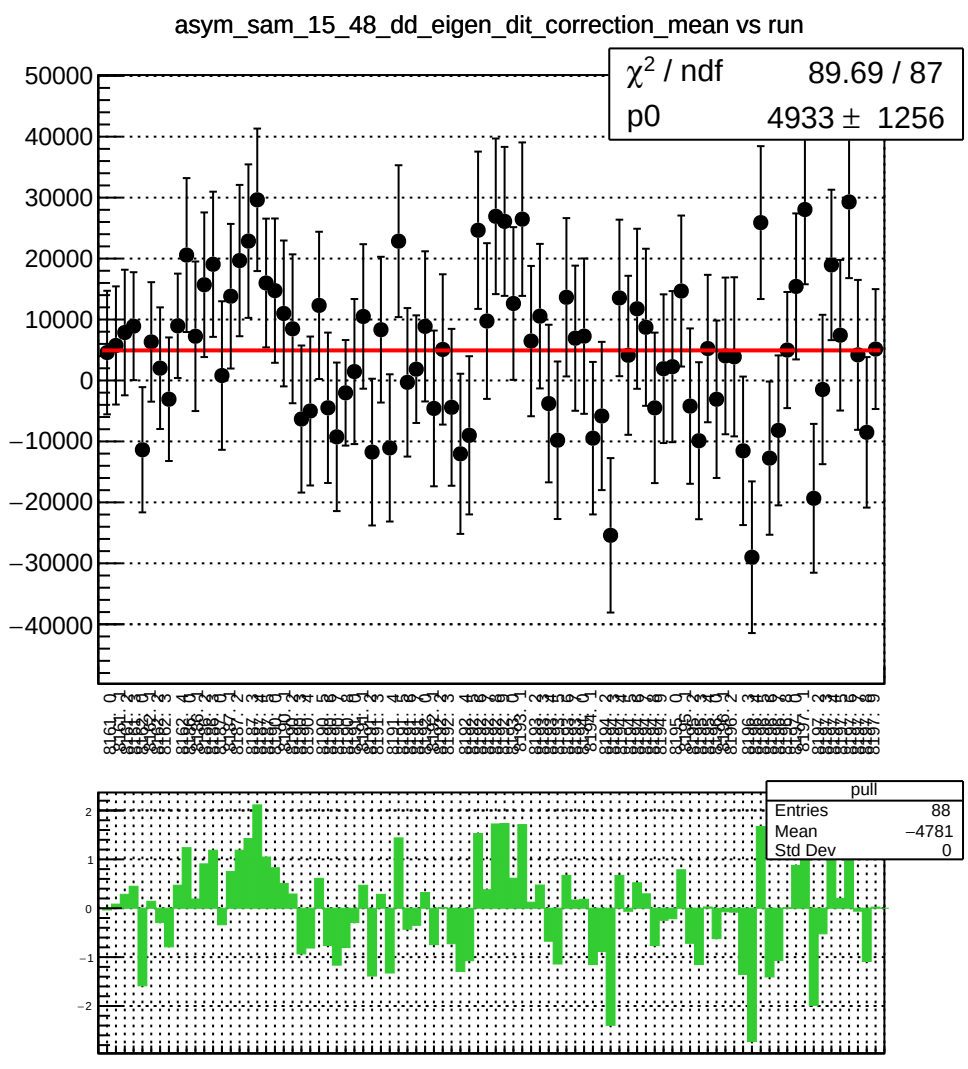

pull1D
Entries 88
Mean 0.0007594
Std Dev 1.01

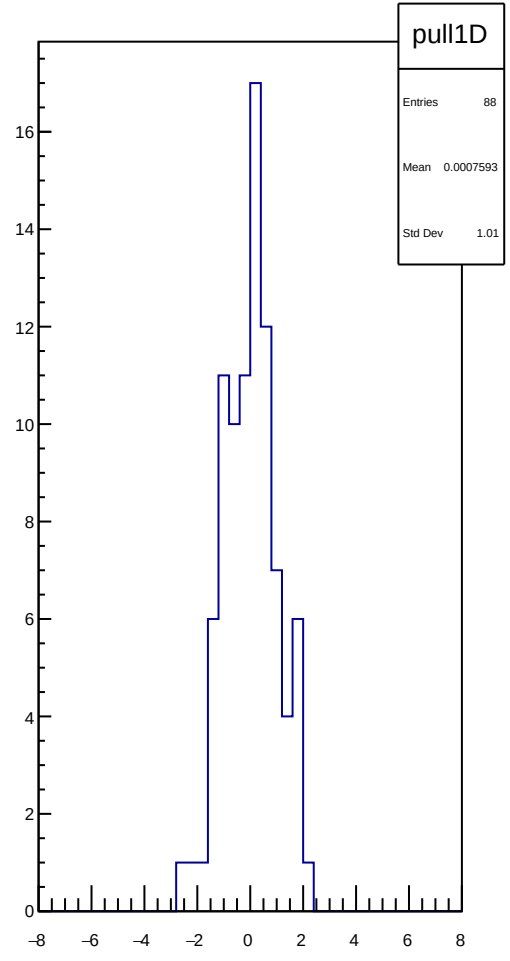

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 9357 / 87
p0 1143 ± 0.888
1250
1200
1150
1100
1050
1000
950
900

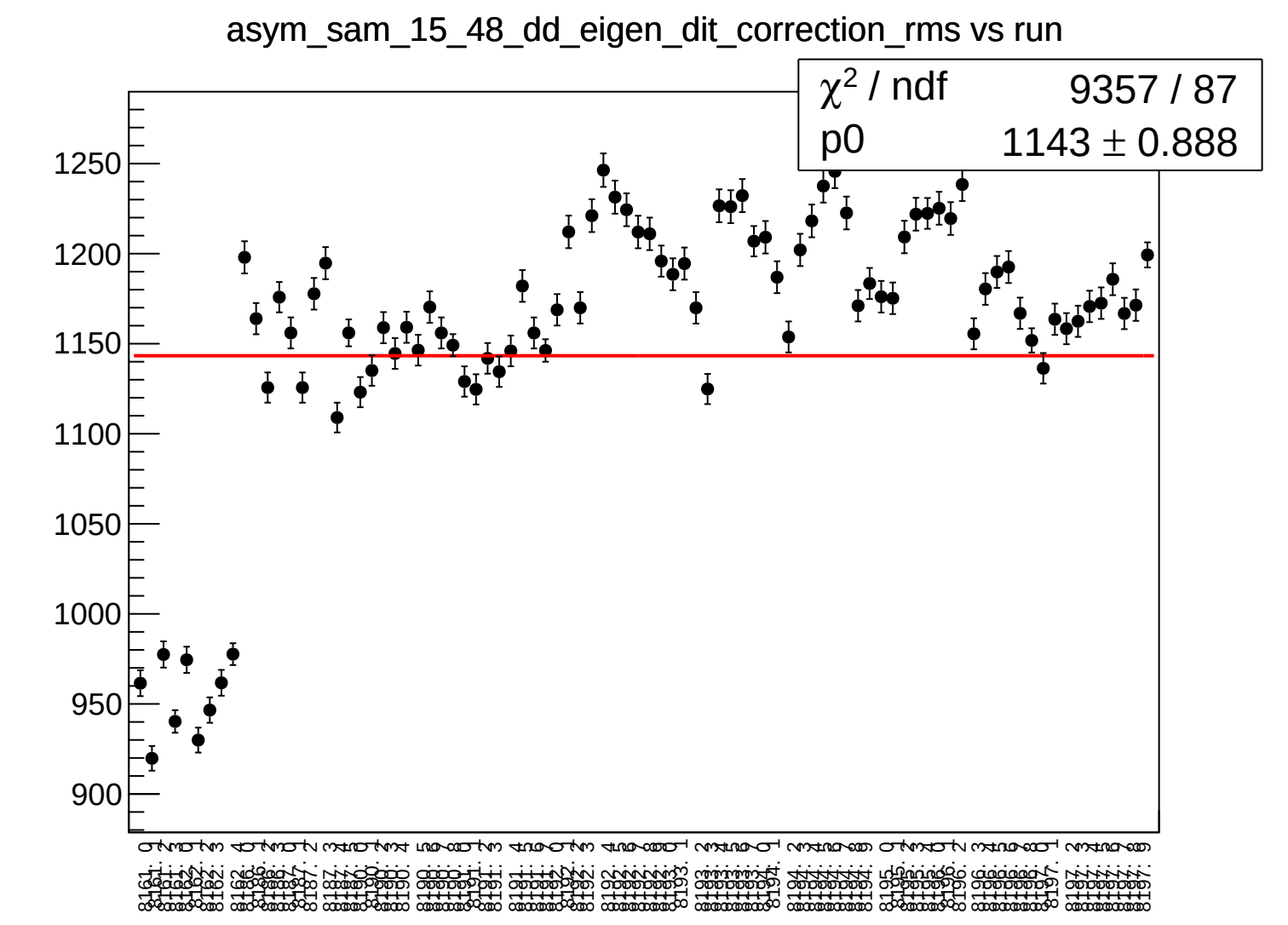

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 89.35 / 87
p0 125.2 ± 76.2
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −85.94
Std Dev 0
3
2
1
0
−1

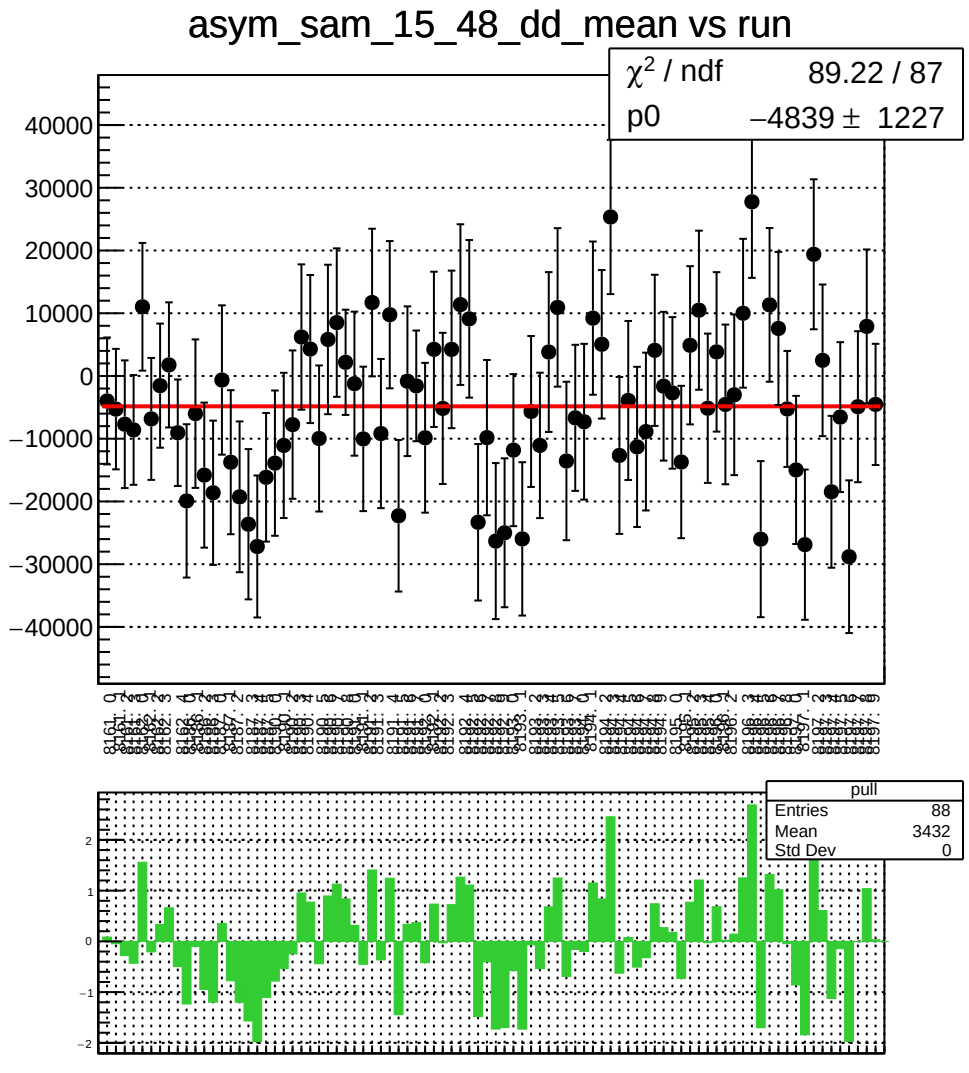

pull1D
Entries 88
Mean 0.009869
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

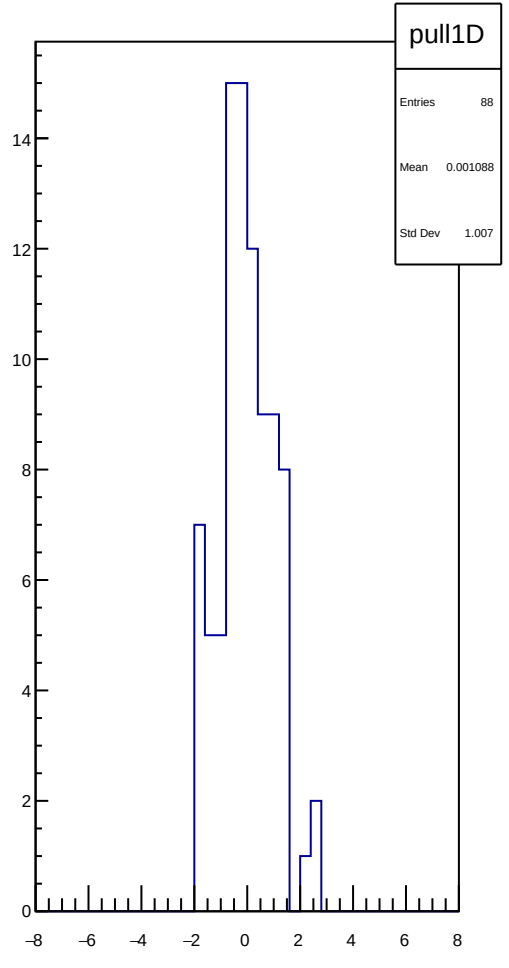

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.009e+04 / 87
p0 69.14 ± 0.05388
120
110
100
90
80
70
60
50

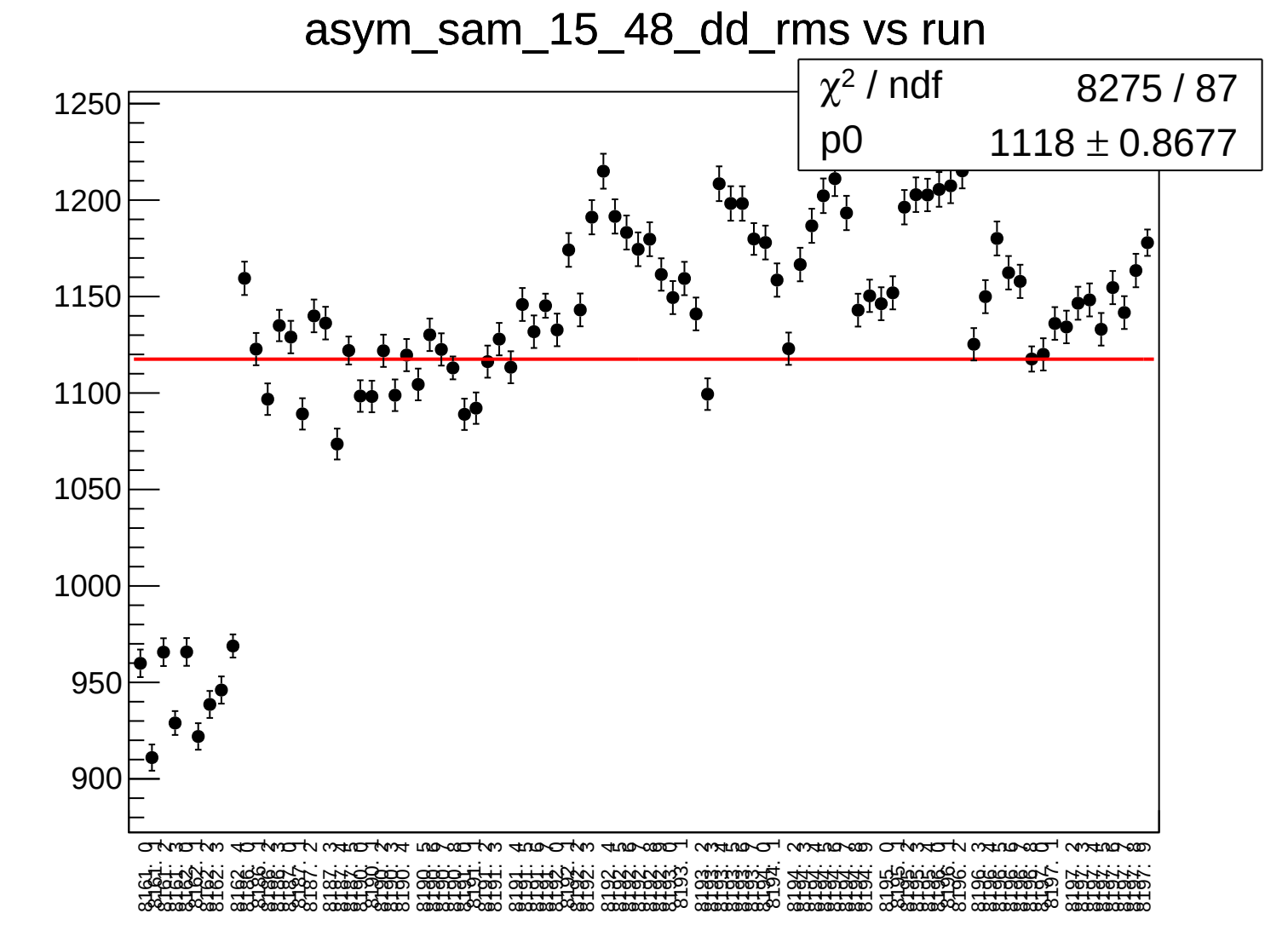

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.69 / 87
p0 4933 ± 1256
pull
Entries 88
Mean −4781
Std Dev 0

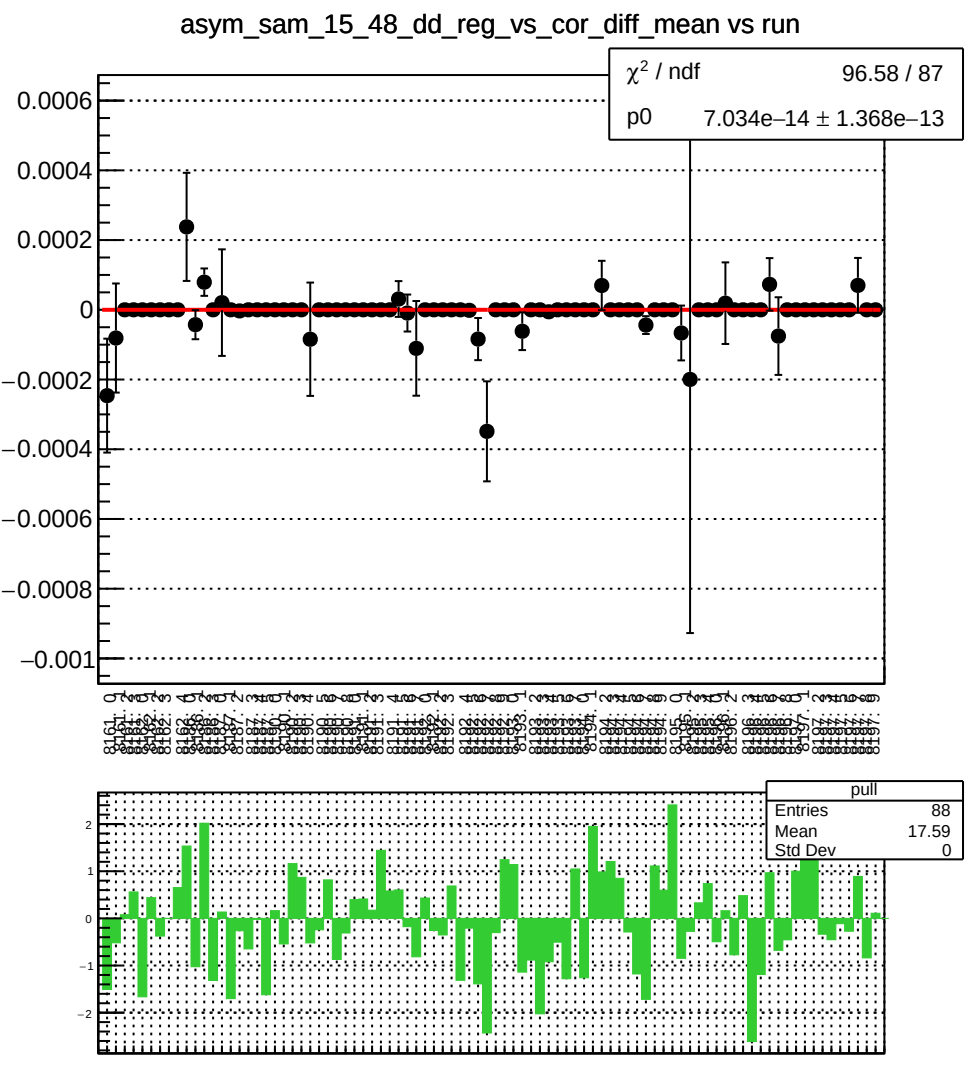

pull1D
Entries 88
Mean 0.0007593
Std Dev 1.01

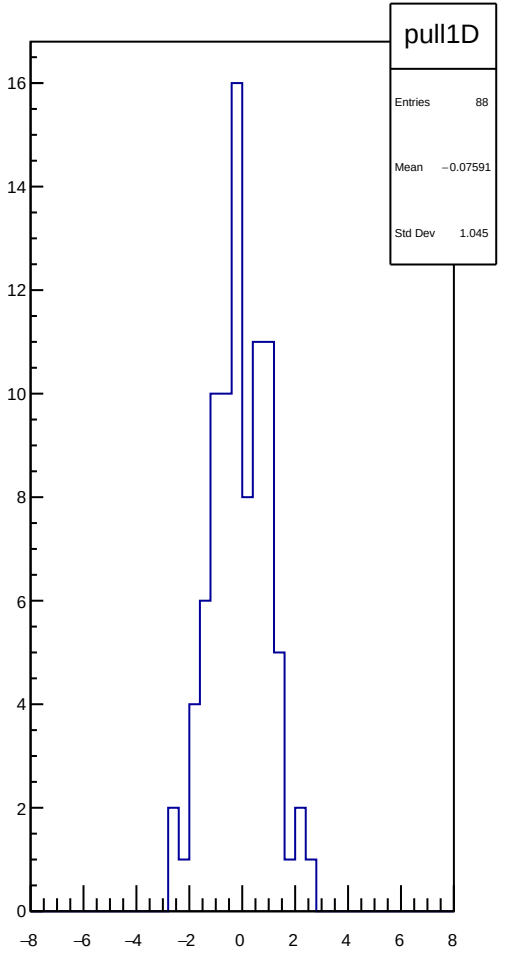

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 9357 / 87
p0 1143 ± 0.888
1250
1200
1150
1100
1050
1000
950
900

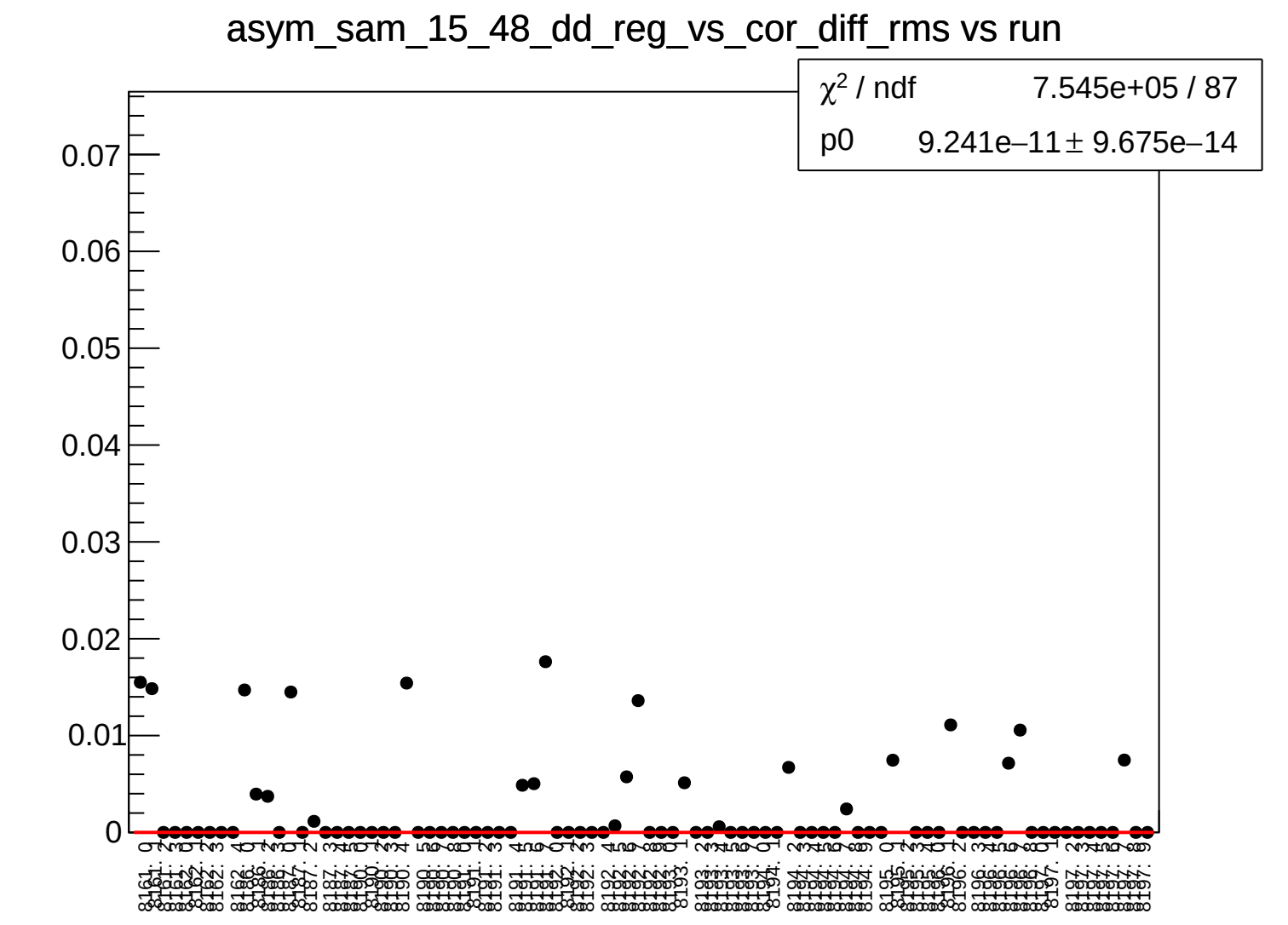

asym_sam_15_48_dd_mean vs run
χ² / ndf 89.22 / 87
p0 −4839 ± 1227
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 3432
Std Dev 0
2
1
0
−1
−2

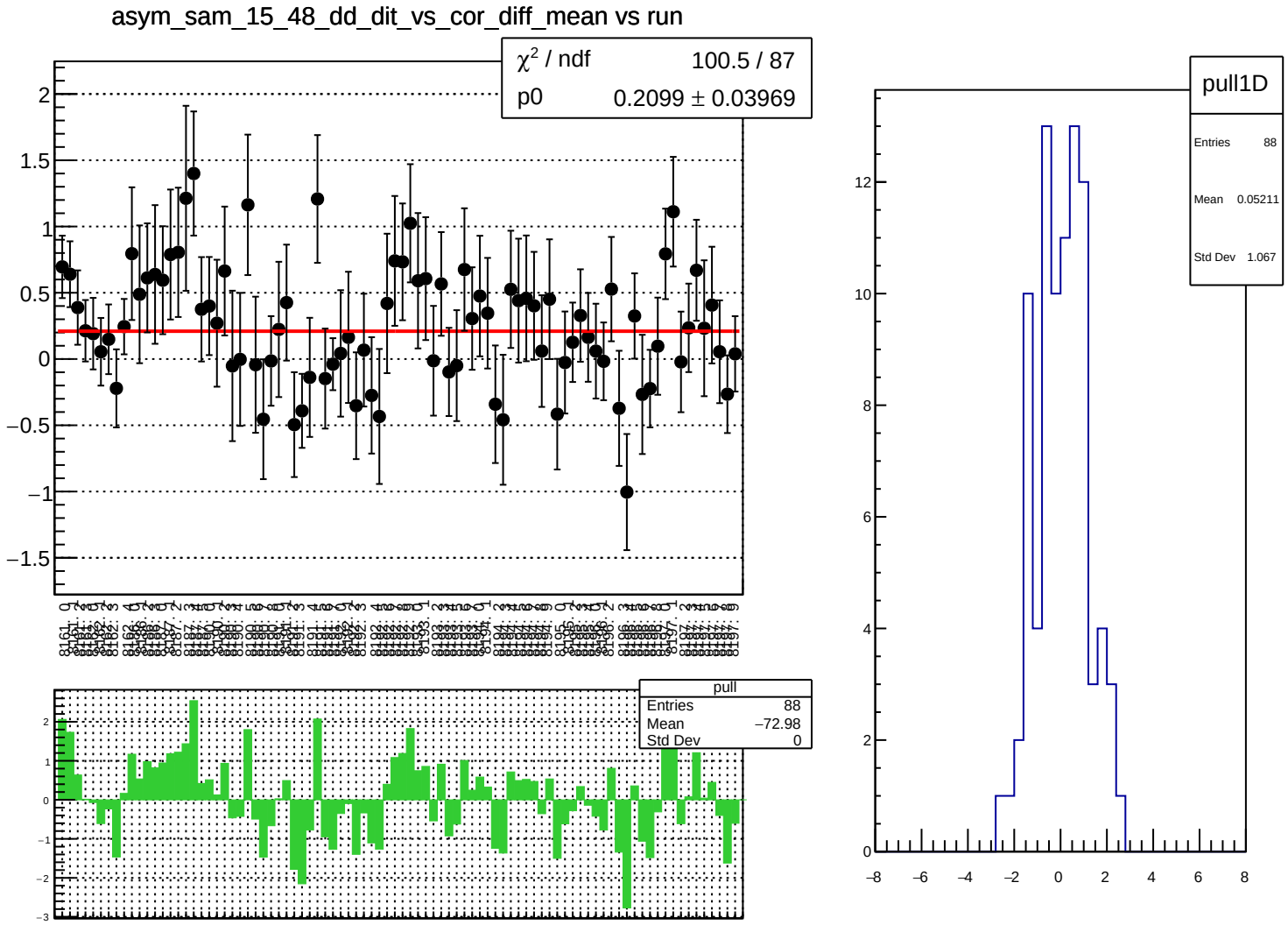

pull1D
Entries 88
Mean 0.001088
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

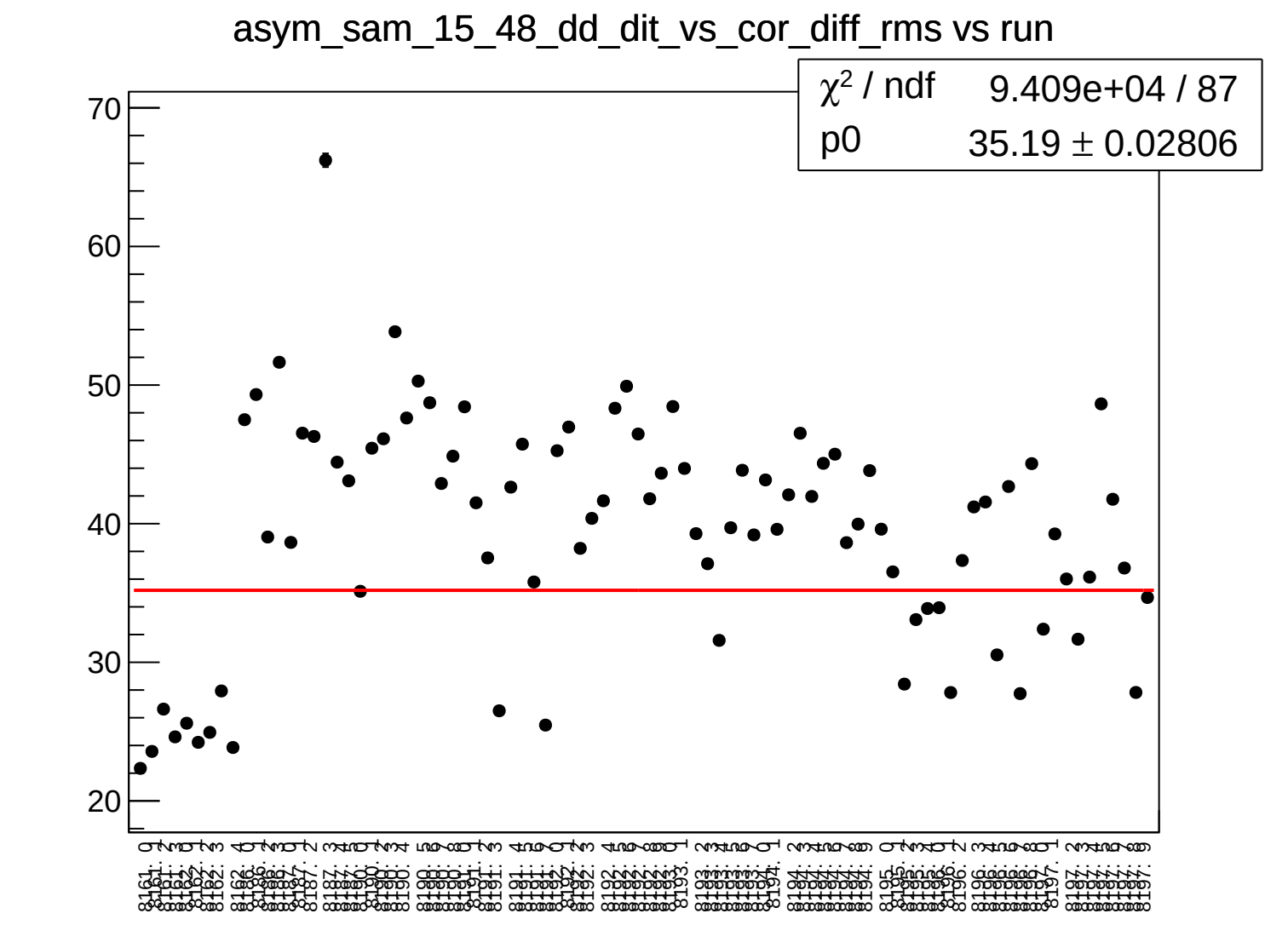

asym_sam_15_48_dd_rms vs run
χ² / ndf 8275 / 87
p0 1118 ± 0.8677
1250
1200
1150
1100
1050
1000
950
900

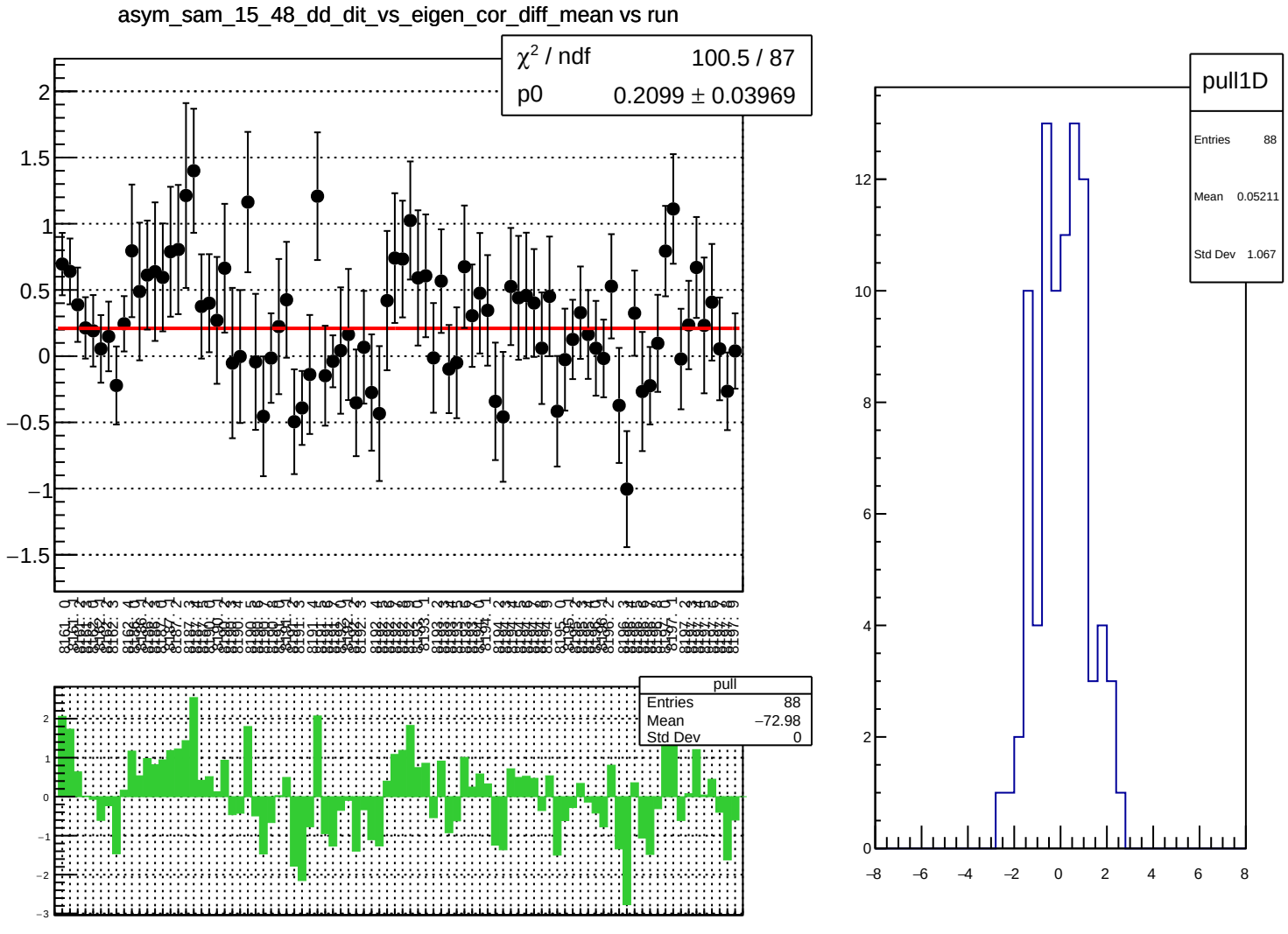

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.58 / 87
p0 7.034e−14 ± 1.368e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 17.59
Std Dev 0
2
1
0
−1
−2

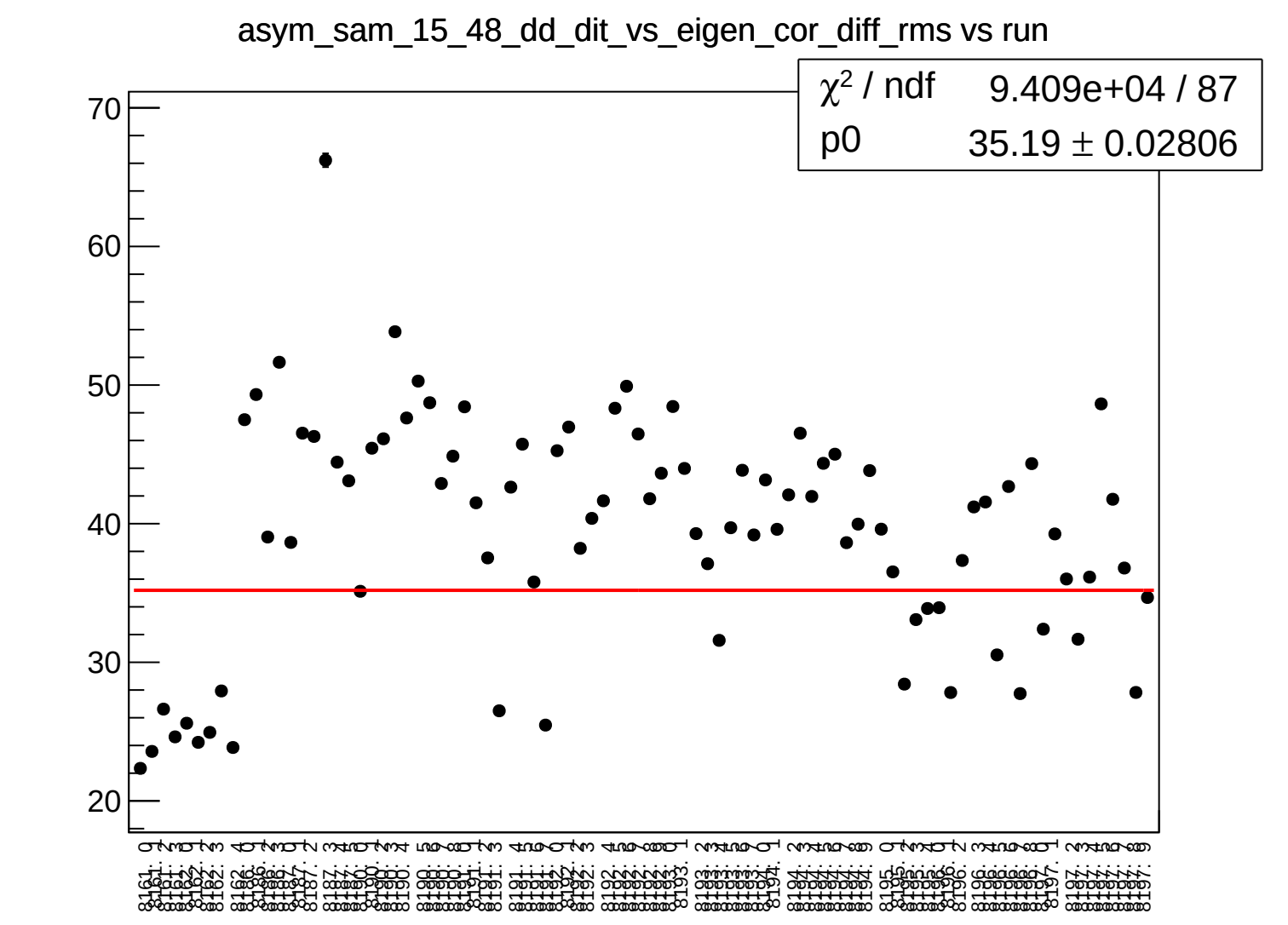

pull1D
Entries 88
Mean −0.07591
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

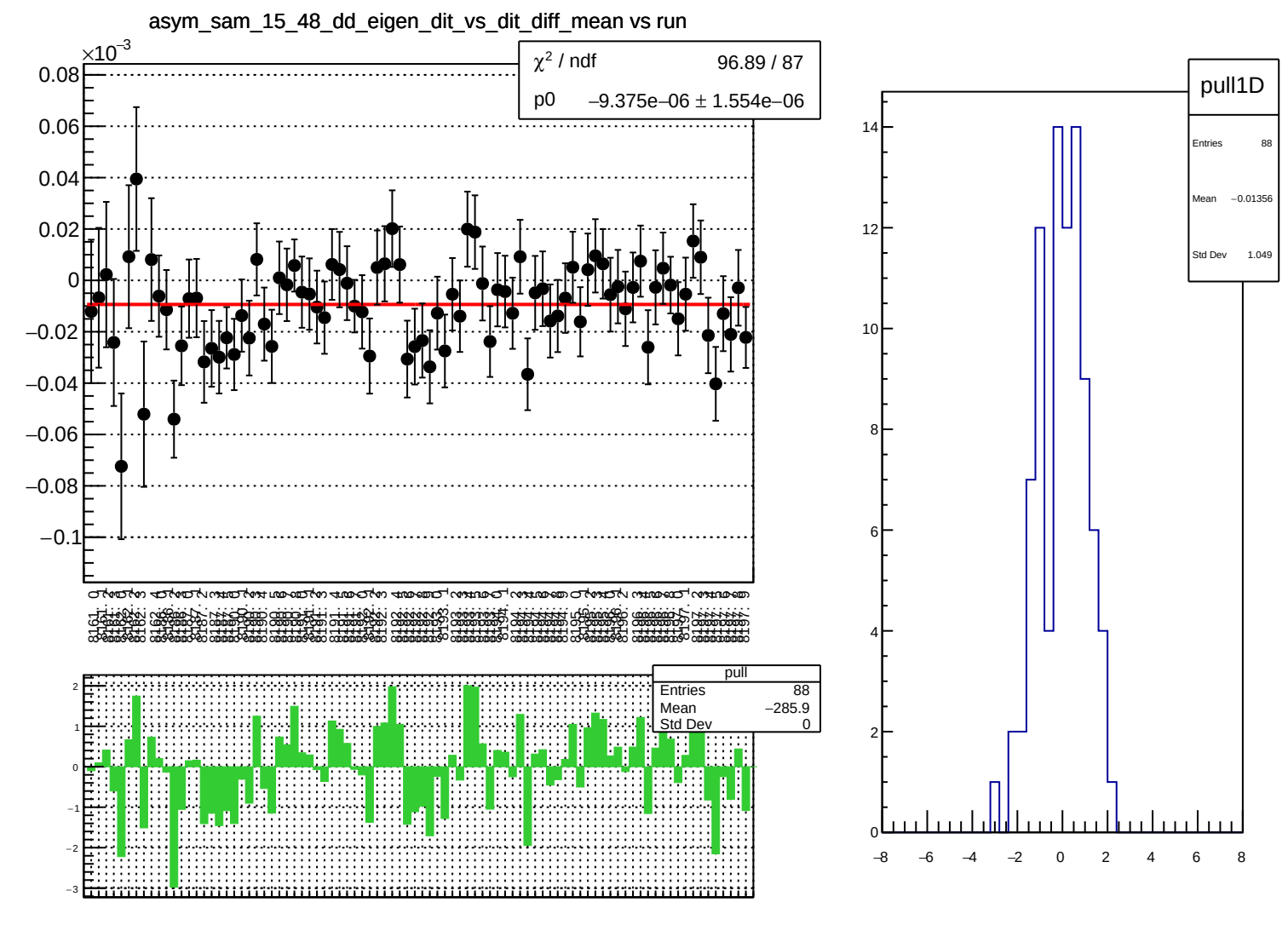

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.545e+05 / 87
p0 9.241e−11 ± 9.675e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

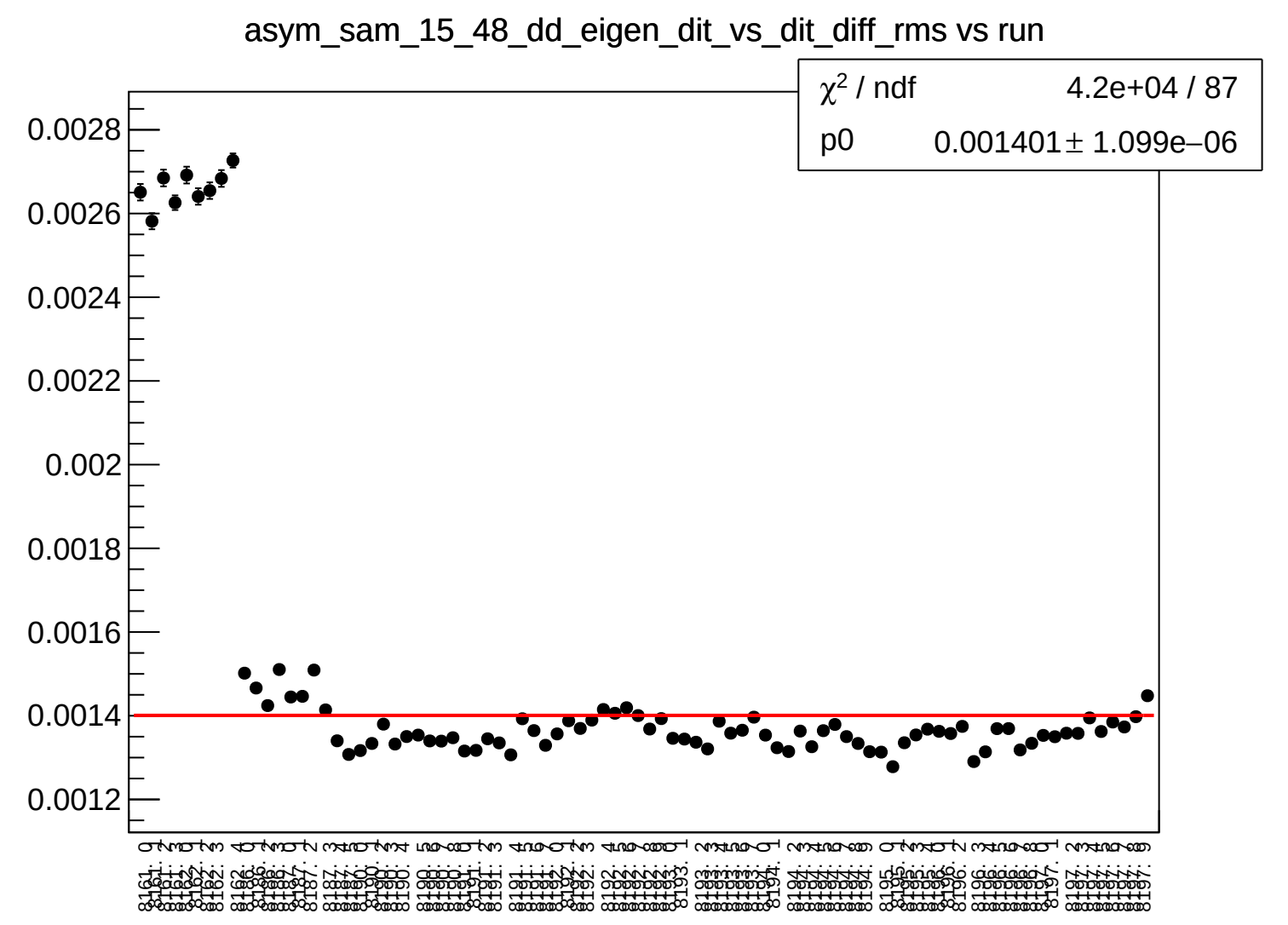

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 87
p0 0.2099 ± 0.03969
pull
Entries 88
Mean −72.98
Std Dev 0
pull1D
Entries 88
Mean 0.05211
Std Dev 1.067

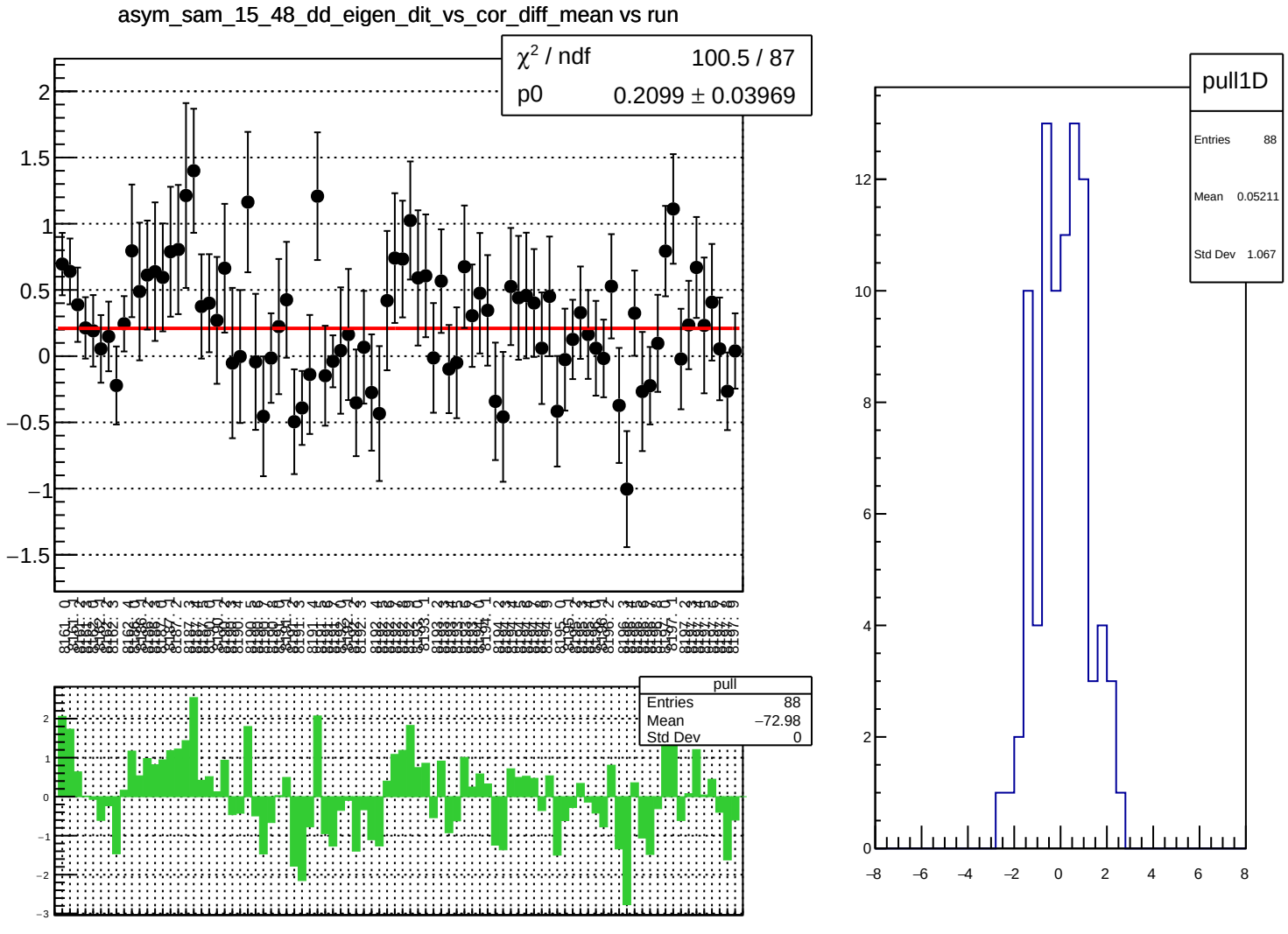

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.409e+04 / 87
p0 35.19 ± 0.02806
70
60
50
40
30
20

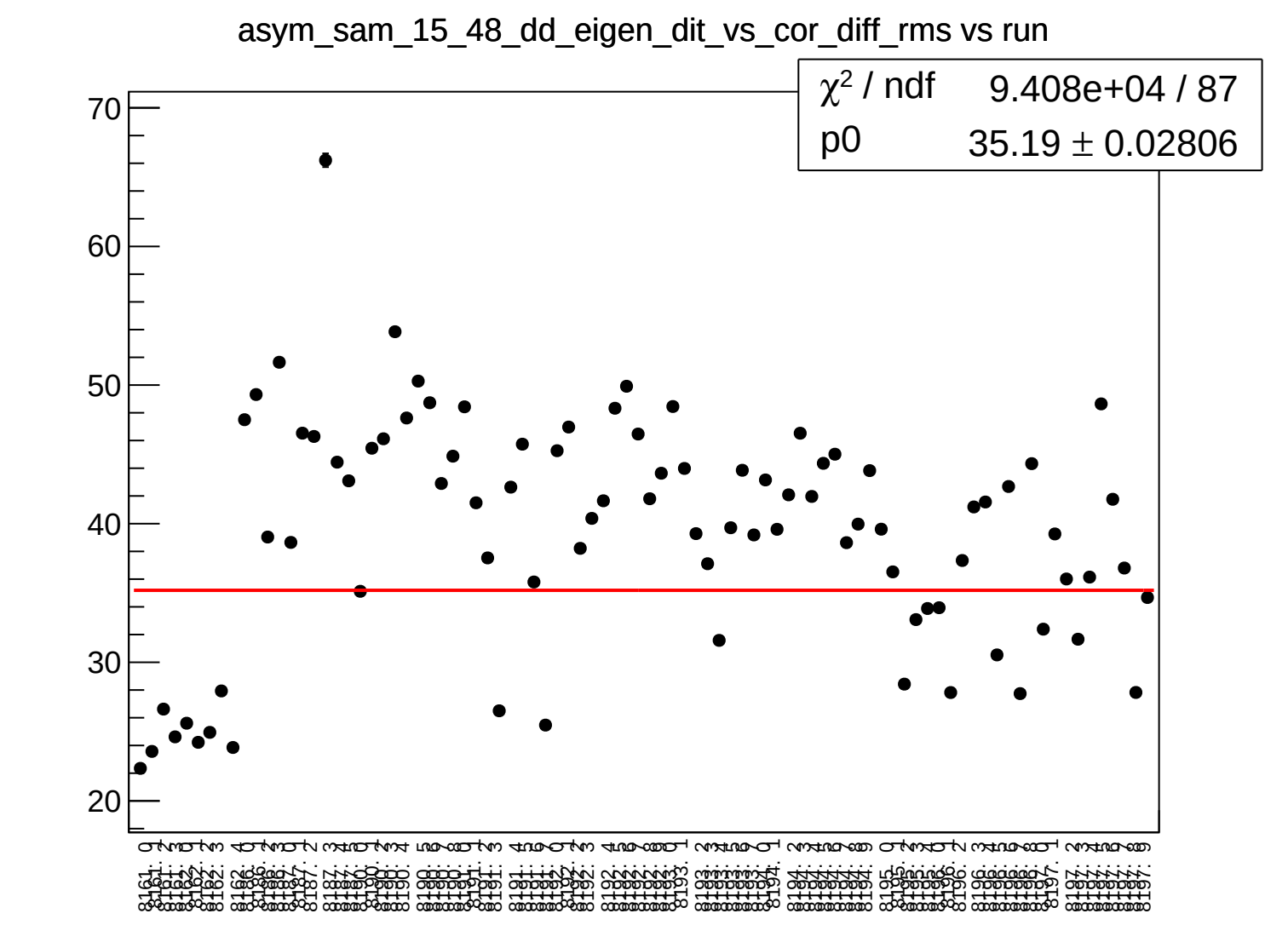

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 87
p0 0.2099 ± 0.03969
pull
Entries 88
Mean −72.98
Std Dev 0
pull1D
Entries 88
Mean 0.05211
Std Dev 1.067

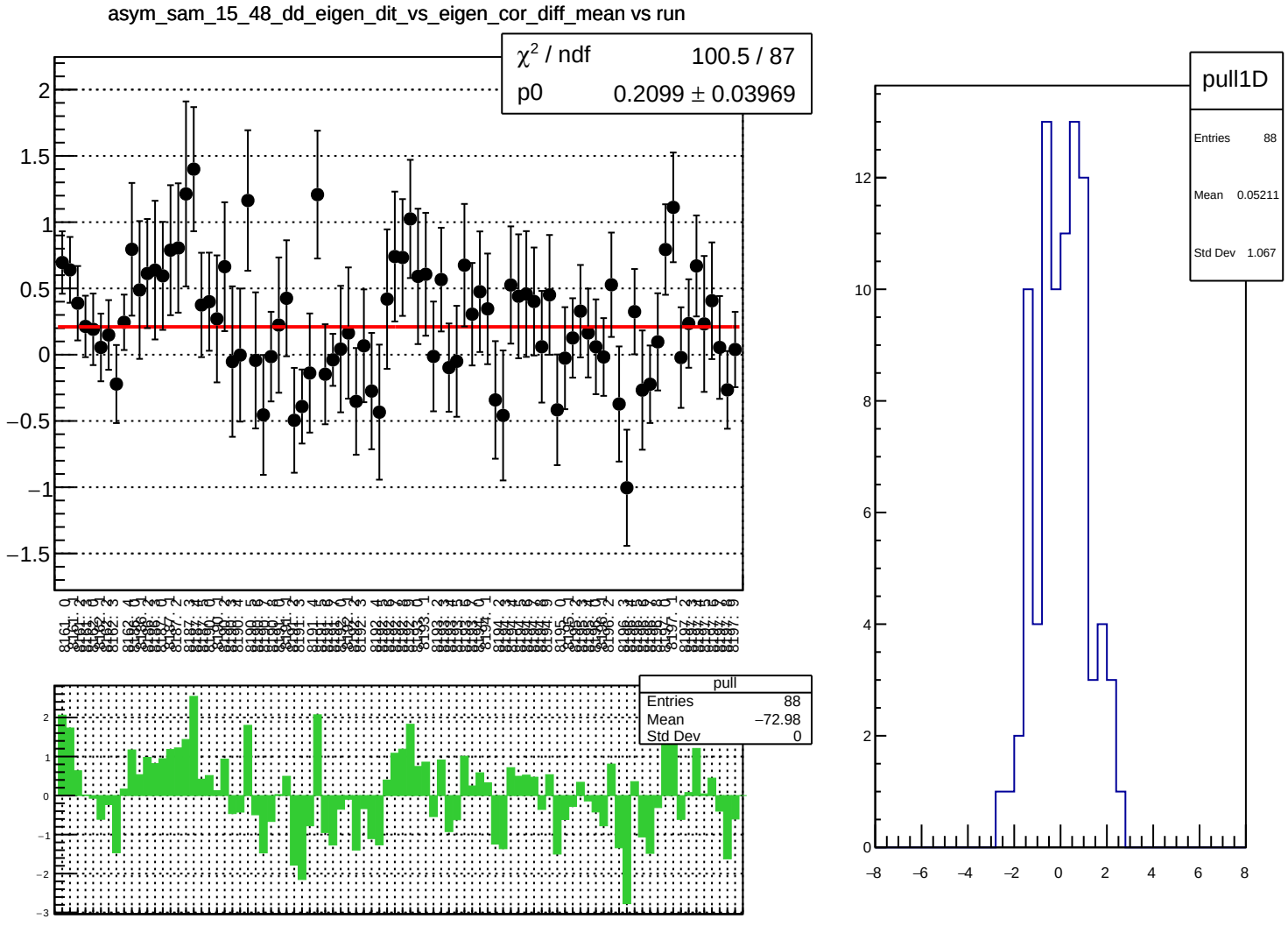

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.409e+04 / 87
p0 35.19 ± 0.02806
70
60
50
40
30
20

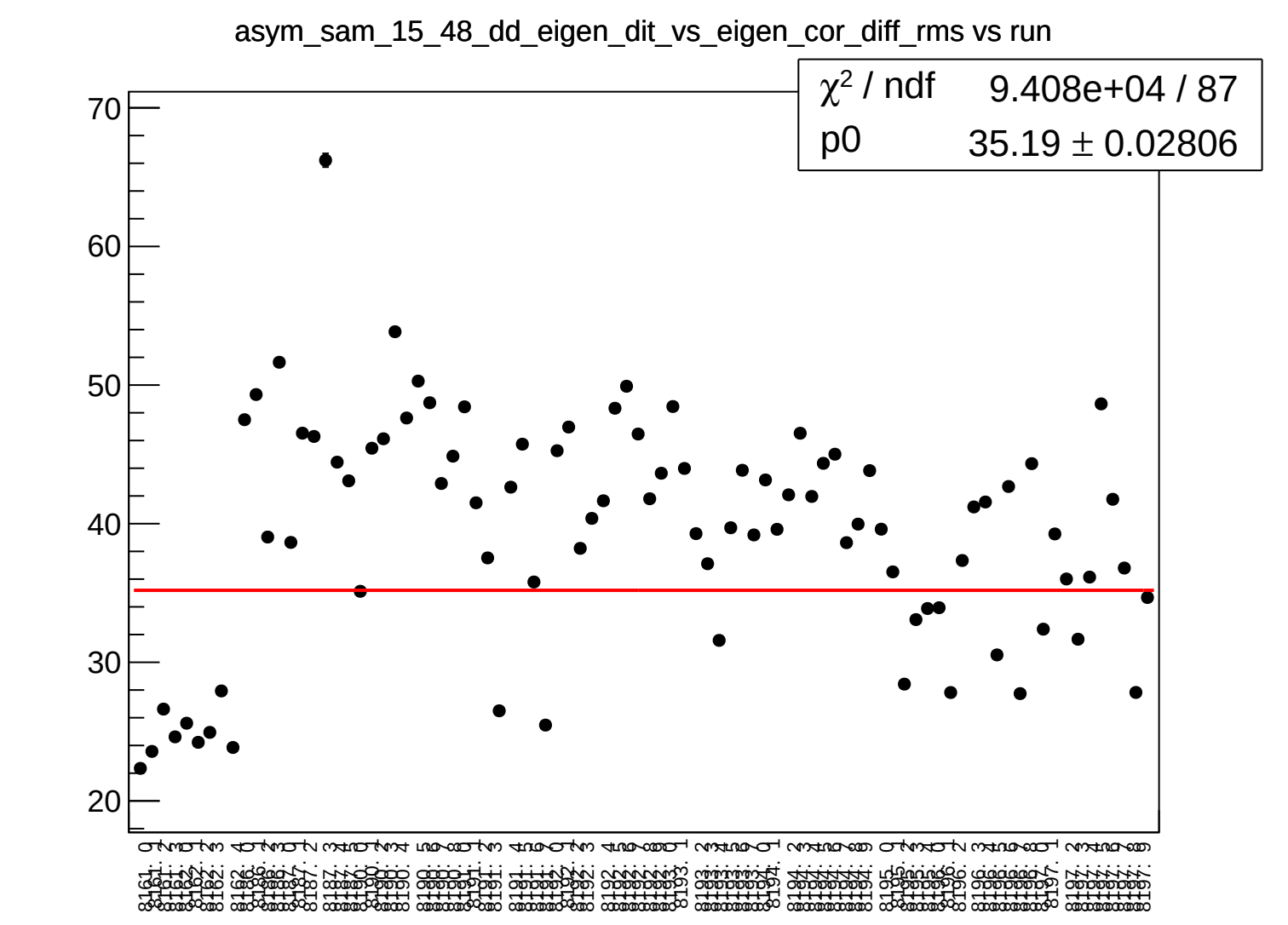

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.89 / 87
p0 −9.375e−06 ± 1.554e−06
pull
Entries 88
Mean −285.9
Std Dev 0
pull1D
Entries 88
Mean −0.01356
Std Dev 1.049

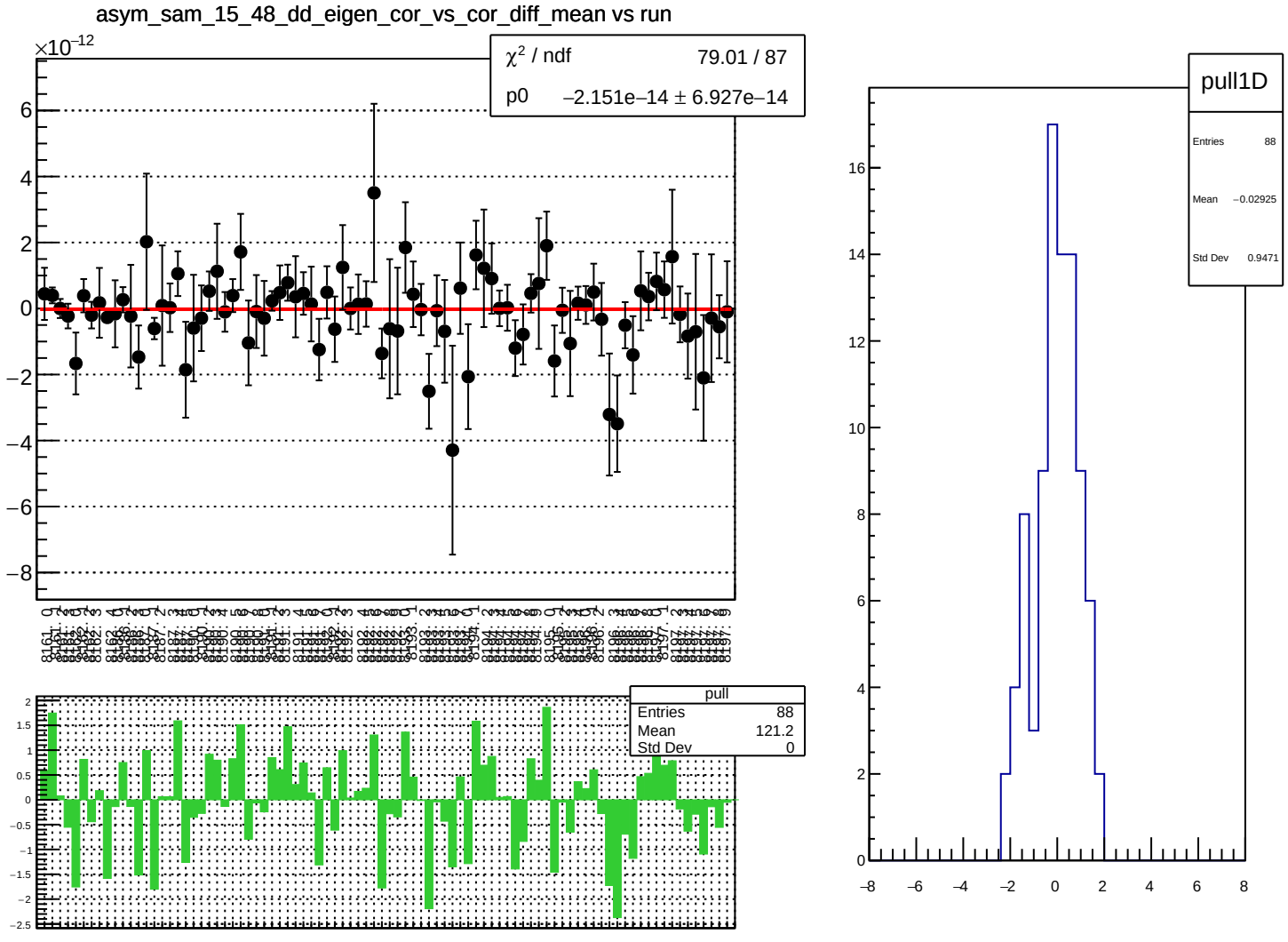

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.2e+04 / 87
p0 0.001401 ± 1.099e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

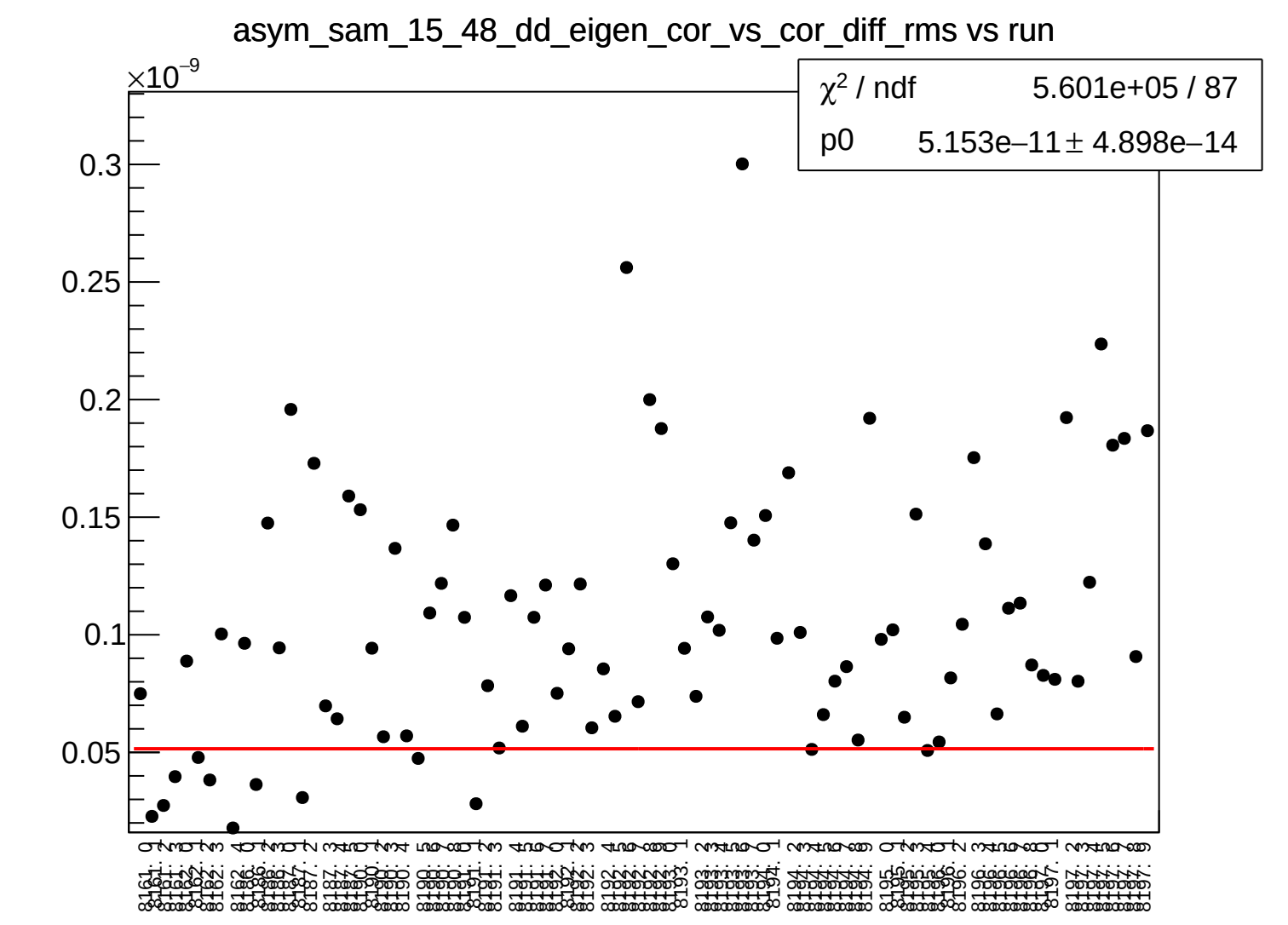

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 87
p0 0.2099 ± 0.03969
pull
Entries 88
Mean −72.98
Std Dev 0
pull1D
Entries 88
Mean 0.05211
Std Dev 1.067

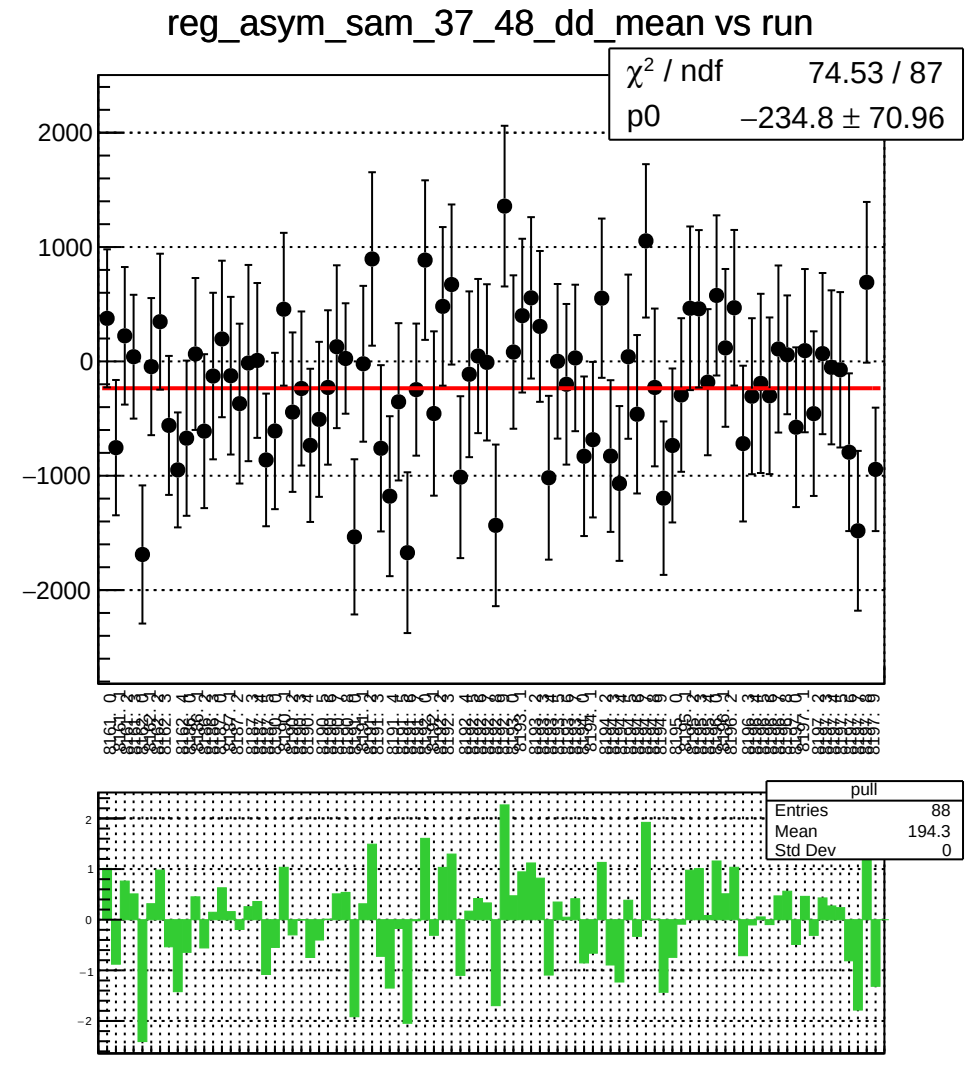

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.408e+04 / 87
p0 35.19 ± 0.02806
70
60
50
40
30
20

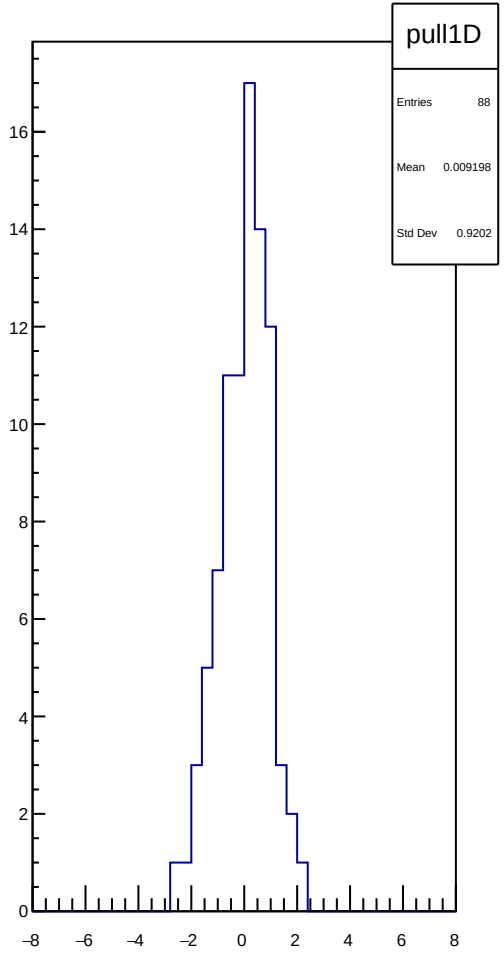

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 87
p0 0.2099 ± 0.03969
pull
Entries 88
Mean −72.98
Std Dev 0
pull1D
Entries 88
Mean 0.05211
Std Dev 1.067

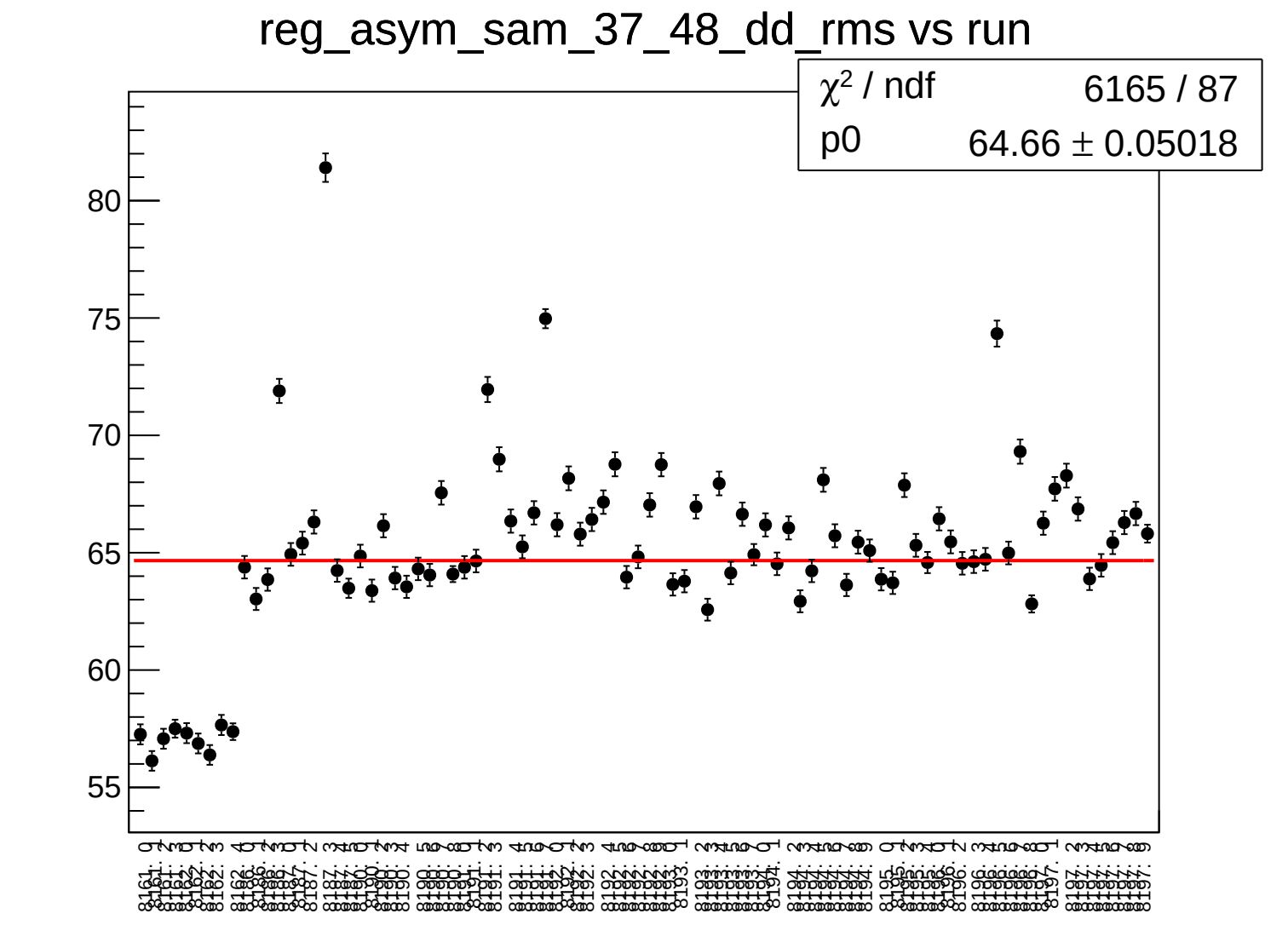

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.408e+04 / 87
p0 35.19 ± 0.02806
70
60
50
40
30
20

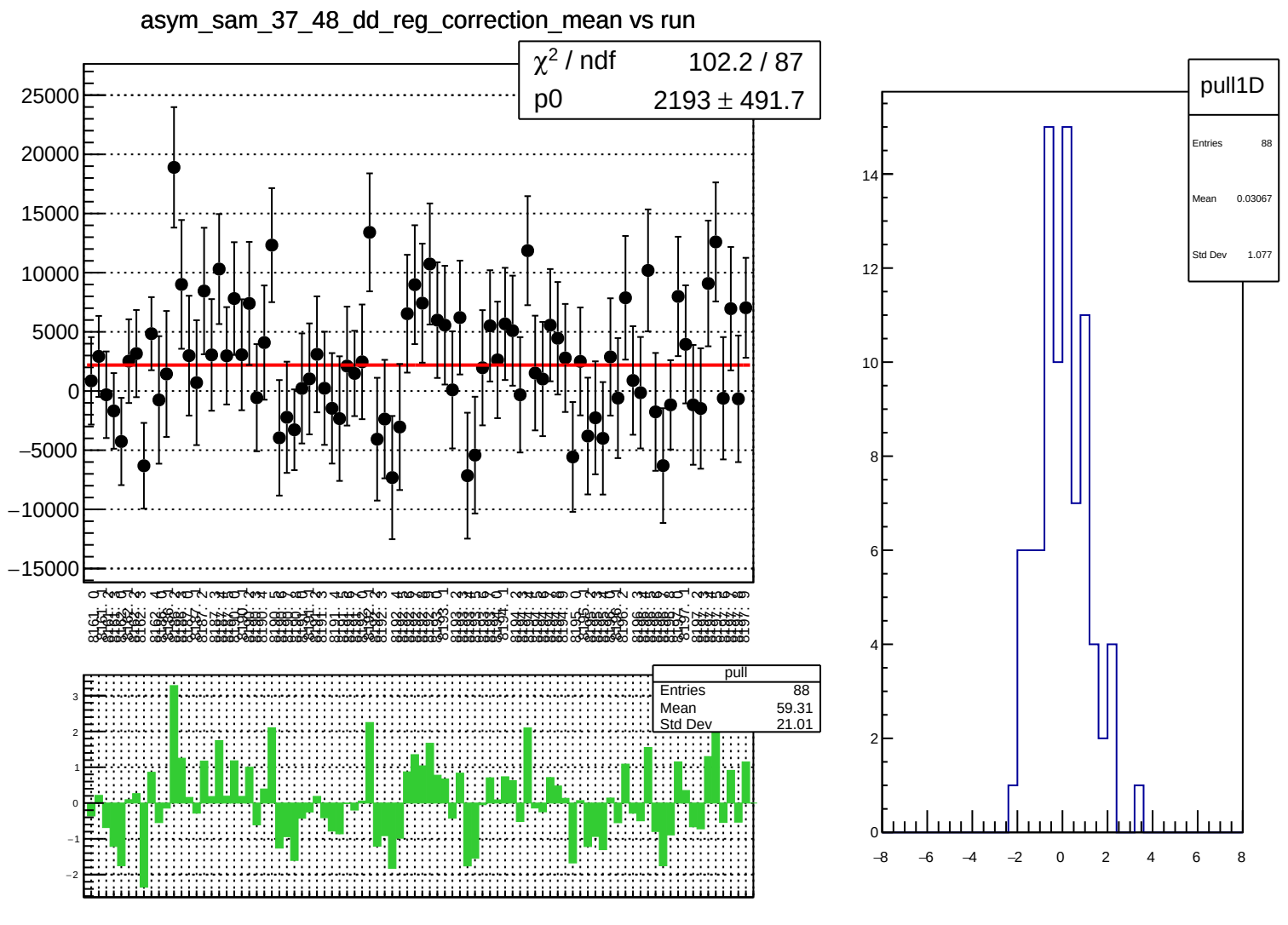

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 79.01 / 87
p0 −2.151e−14 ± 6.927e−14
pull
Entries 88
Mean 121.2
Std Dev 0
pull1D
Entries 88
Mean −0.02925
Std Dev 0.9471

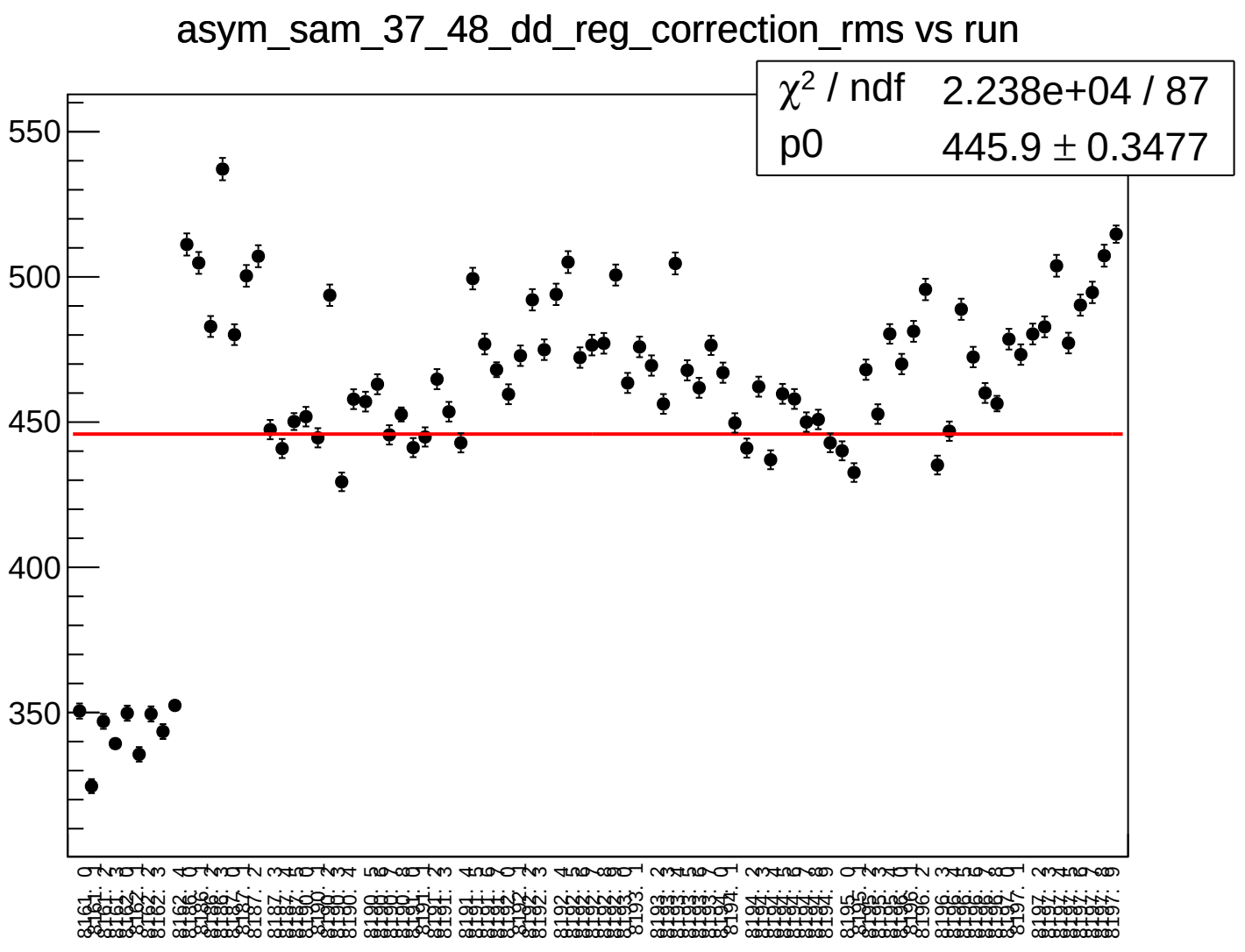

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.601e+05 / 87
p0 5.153e−11 ± 4.898e−14
0.3
0.25
0.2
0.15
0.1
0.05

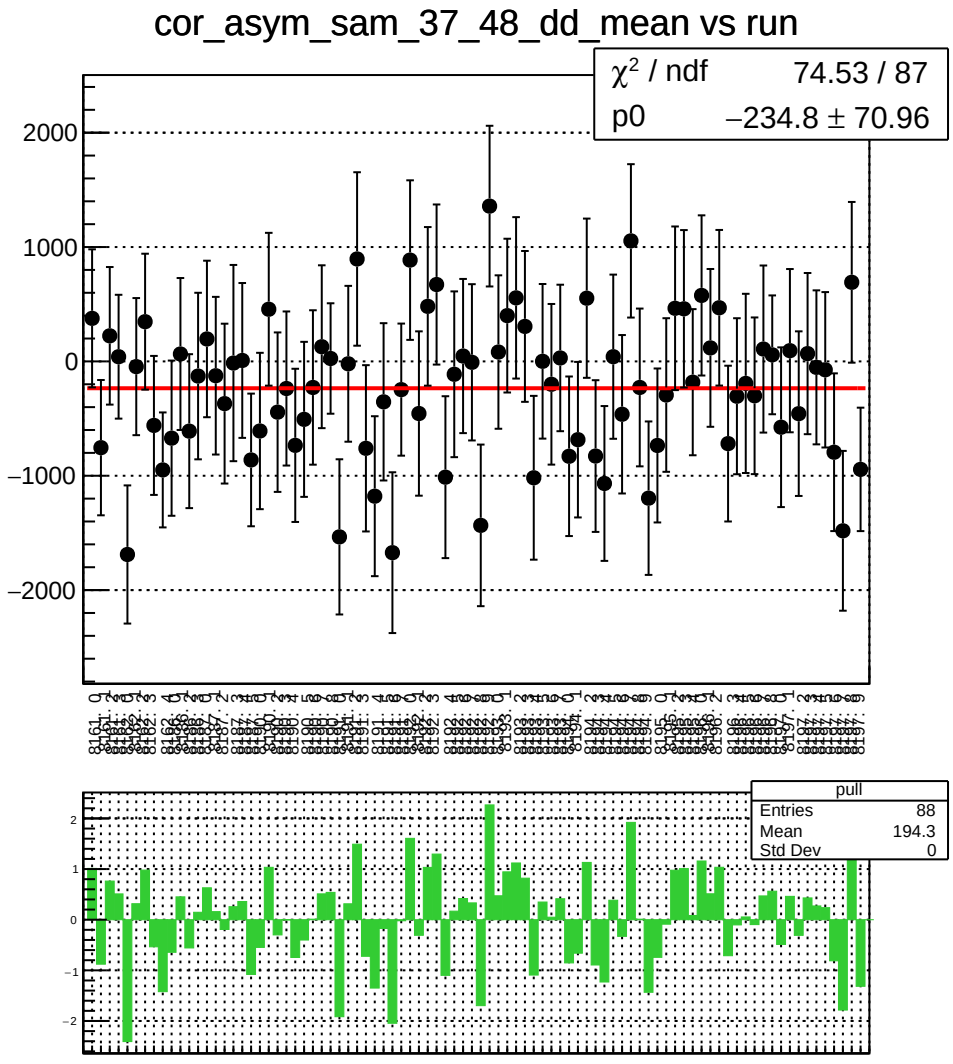

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 74.53 / 87
p0 −234.8 ± 70.96
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 194.3
Std Dev 0
2
1
0
−1
−2

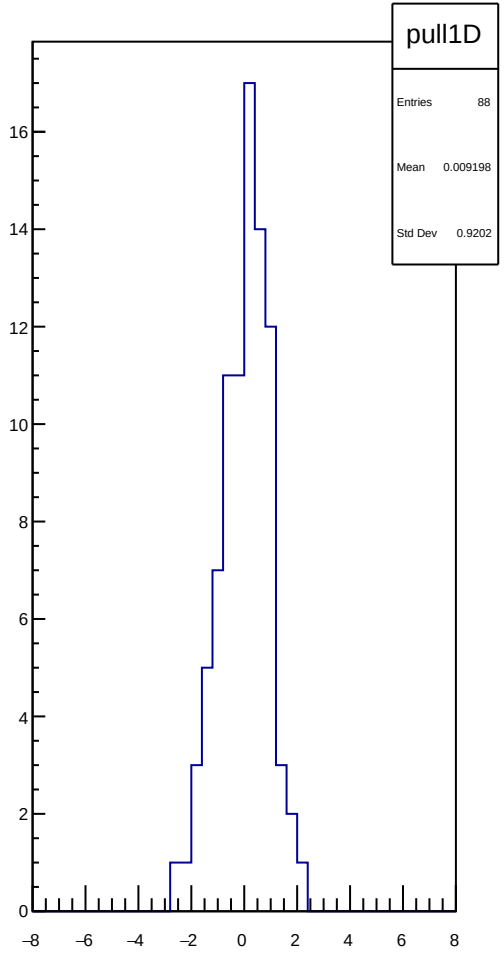

pull1D
Entries 88
Mean 0.009198
Std Dev 0.9202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

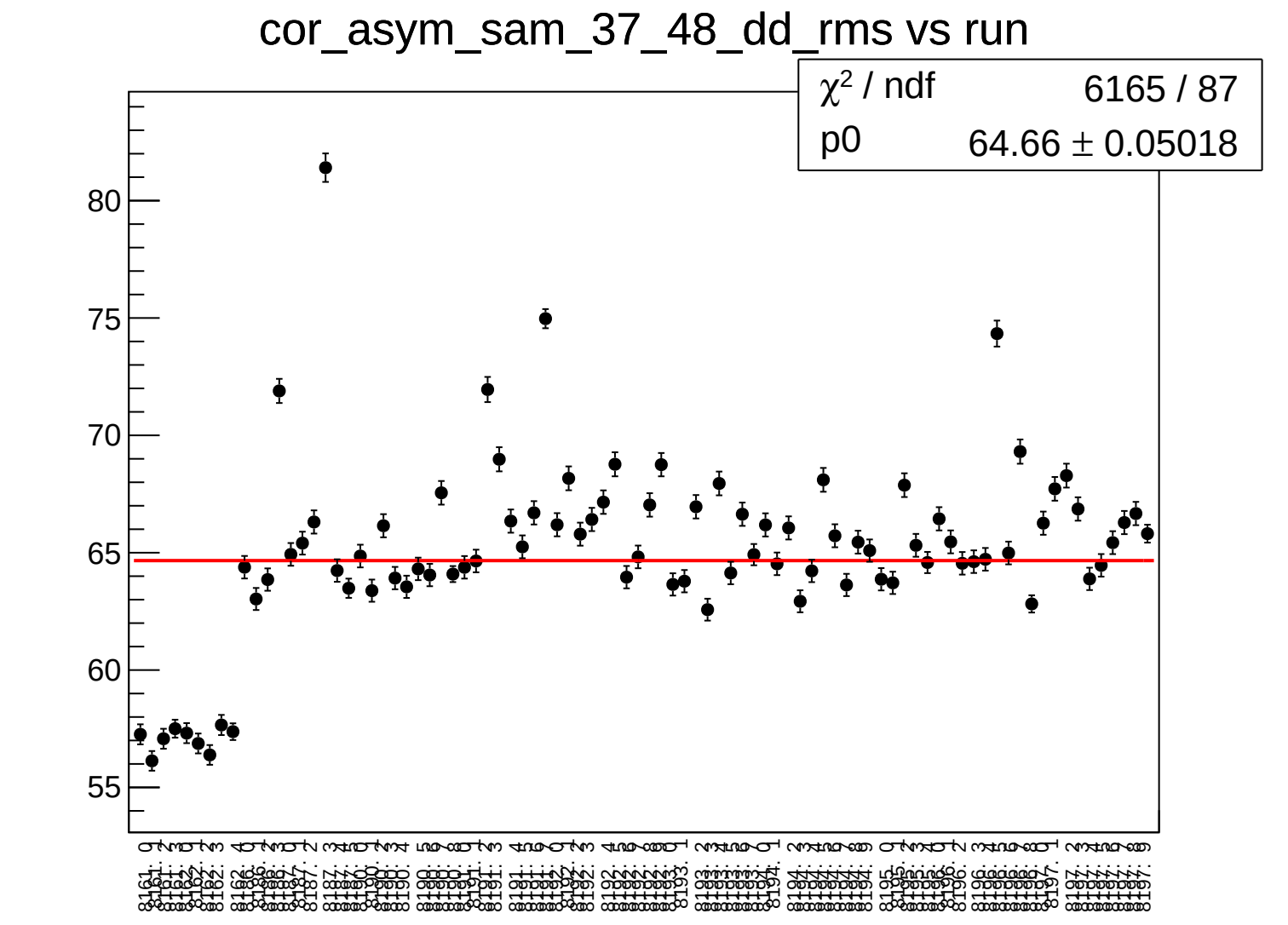

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 6165 / 87
p0 64.66 ± 0.05018
80
75
70
65
60
55

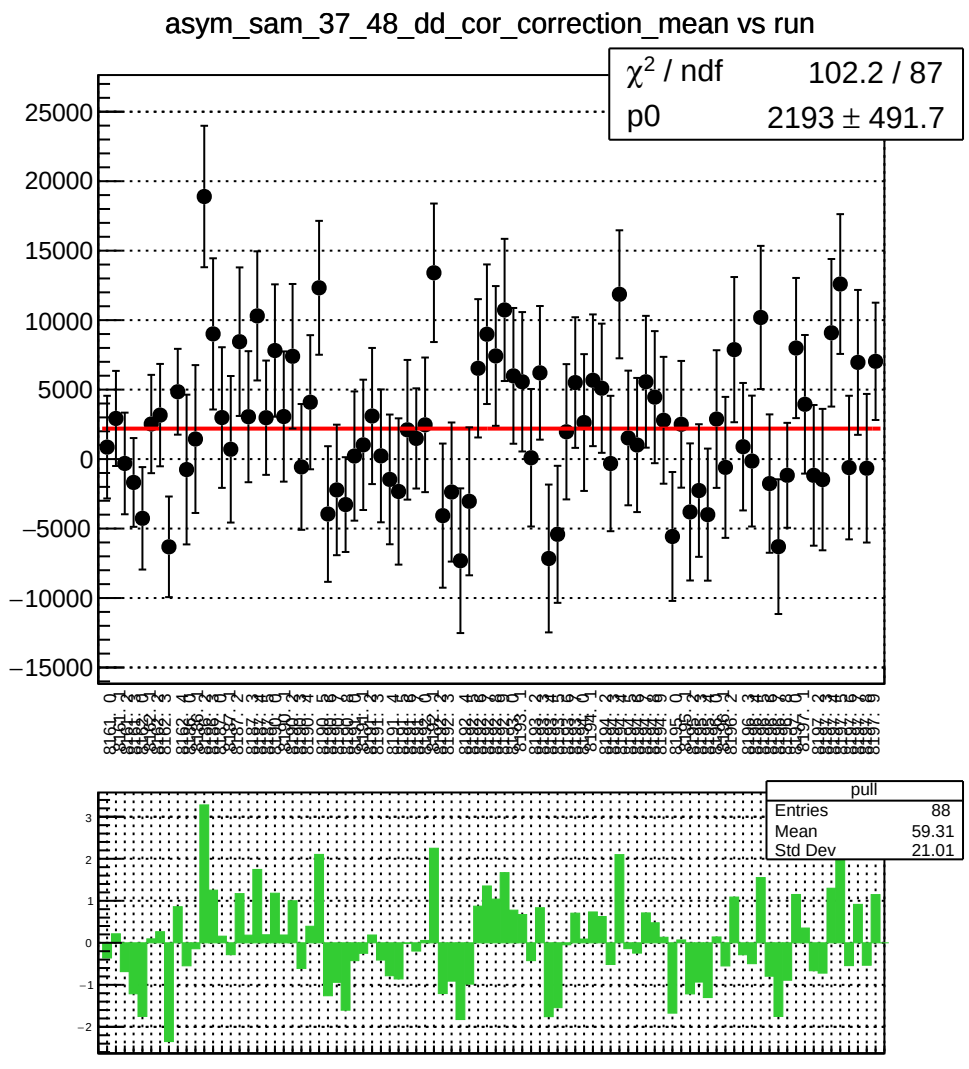

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 102.2 / 87
p0 2193 ± 491.7
pull
Entries 88
Mean 59.31
Std Dev 21.01
pull1D
Entries 88
Mean 0.03067
Std Dev 1.077

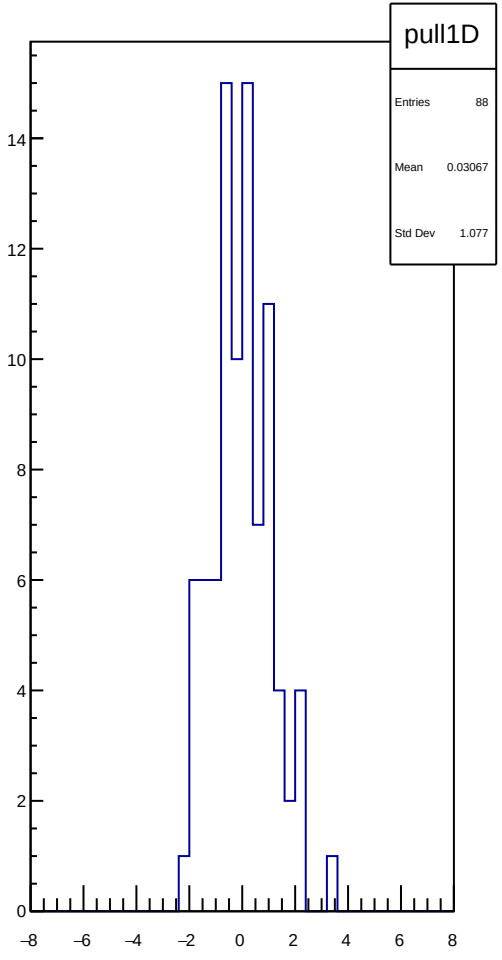

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2.238e+04 / 87
p0 445.9 ± 0.3477
550
500
450
400
350

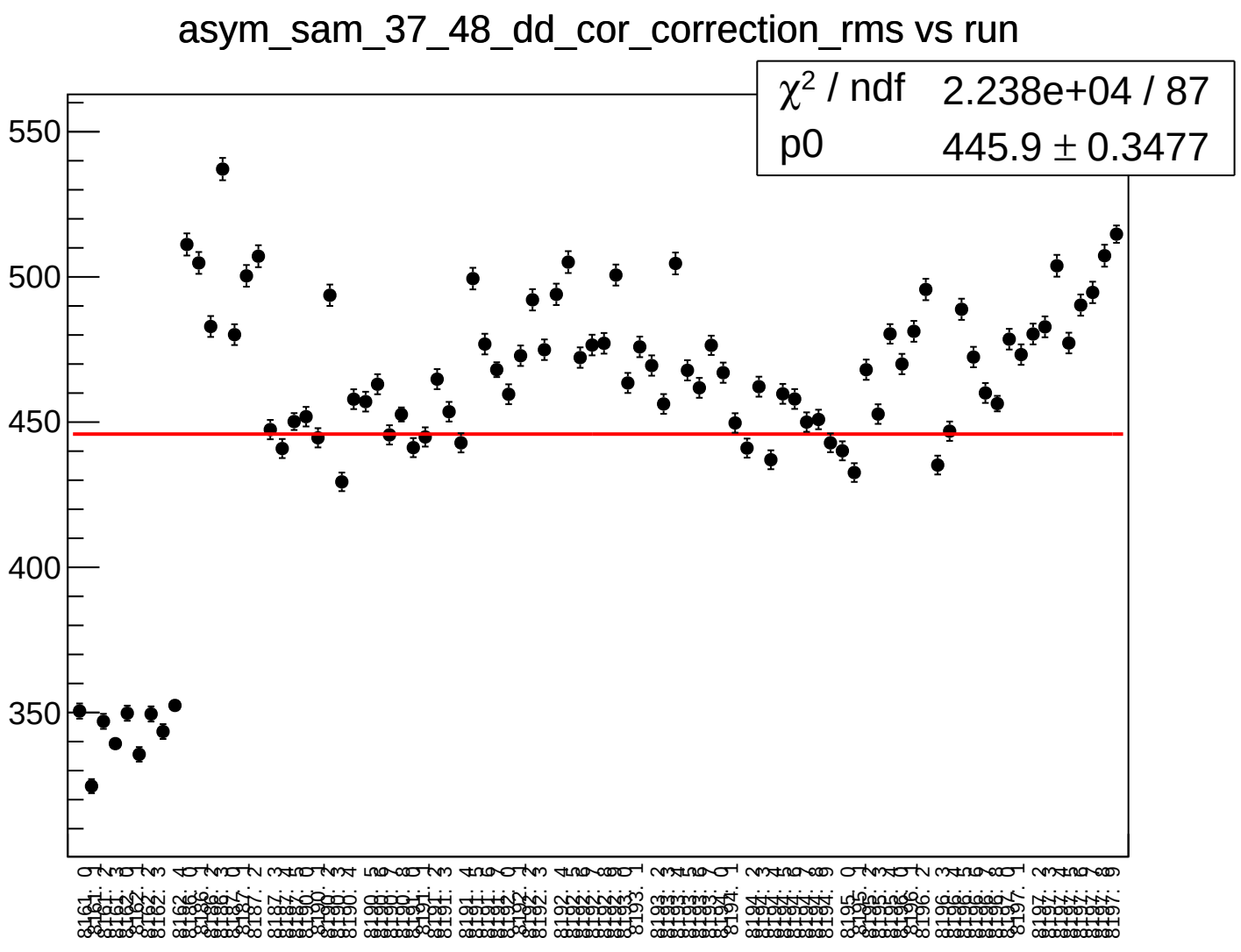

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 74.53 / 87
p0 −234.8 ± 70.96
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 194.3
Std Dev 0
2
1
0
−1
−2

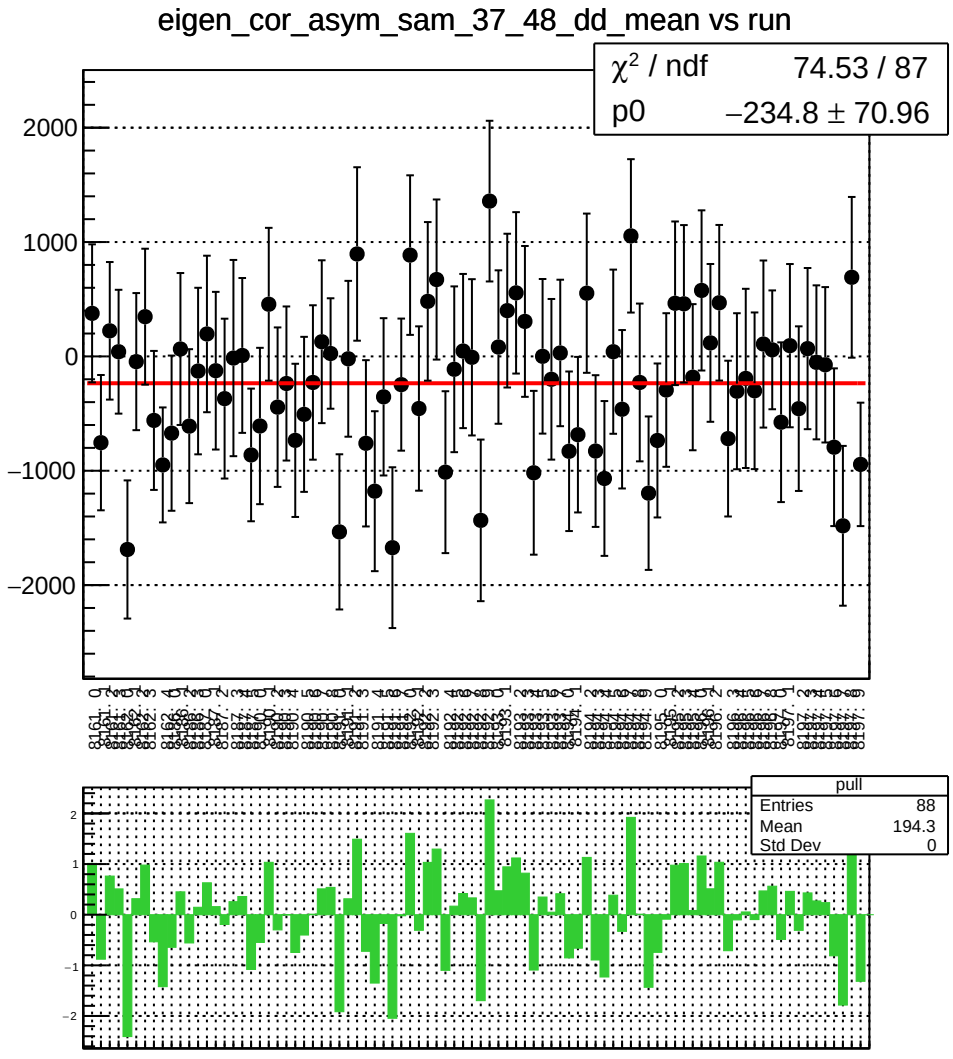

pull1D
Entries 88
Mean 0.009198
Std Dev 0.9202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

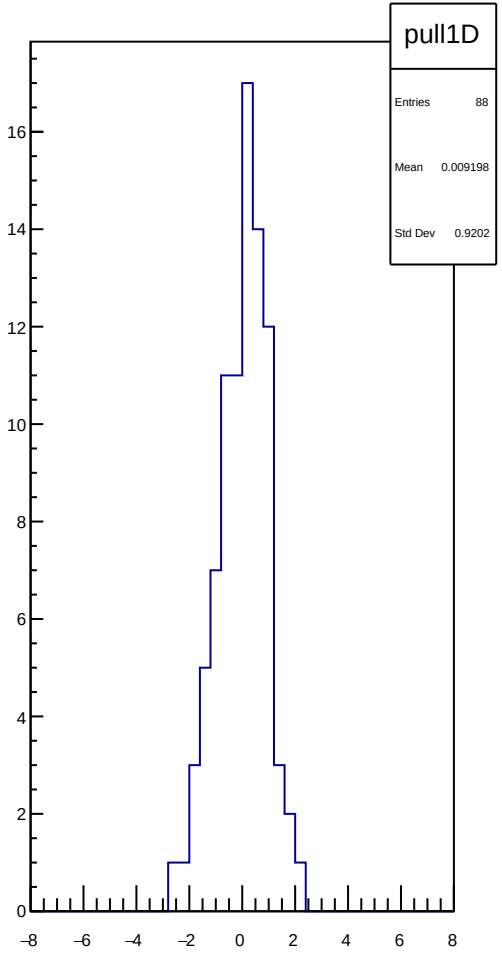

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 6165 / 87
p0 64.66 ± 0.05018
80
75
70
65
60
55

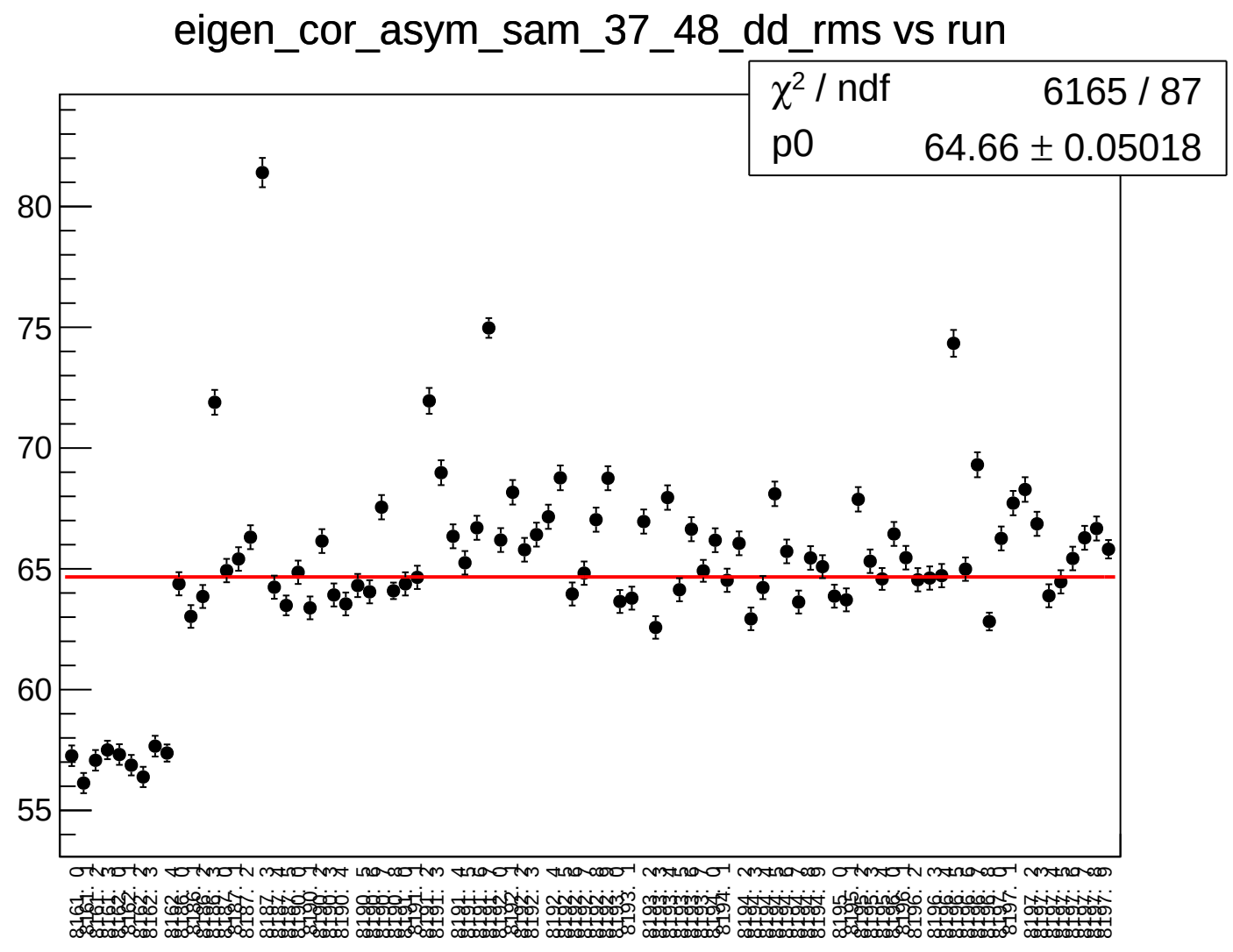

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 102.2 / 87
p0 2193 ± 491.7
pull
Entries 88
Mean 59.31
Std Dev 21.01

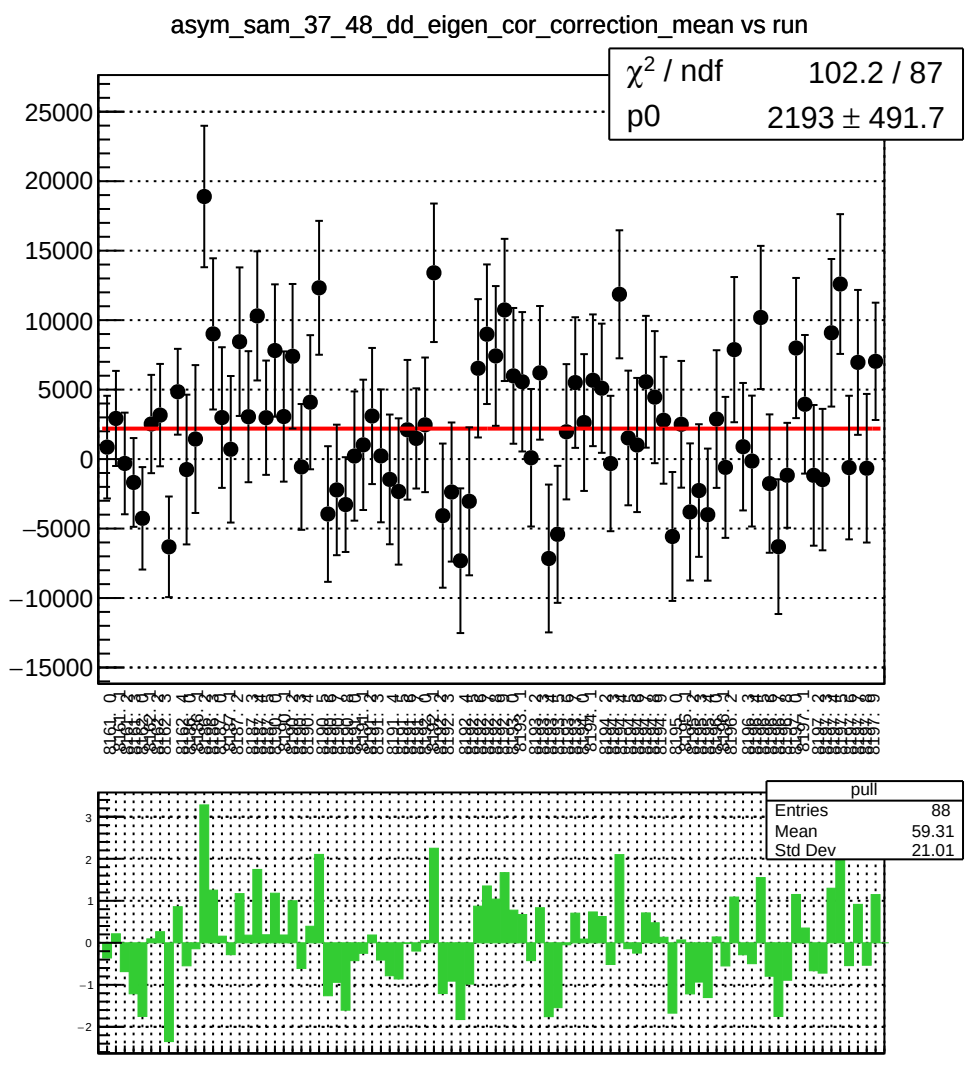

pull1D
Entries 88
Mean 0.03067
Std Dev 1.077

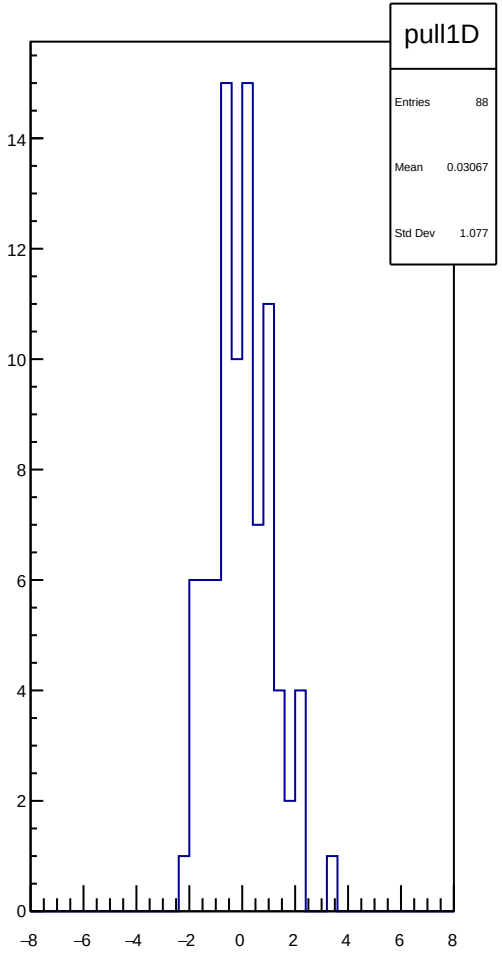

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2.238e+04 / 87
p0 445.9 ± 0.3477
550
500
450
400
350

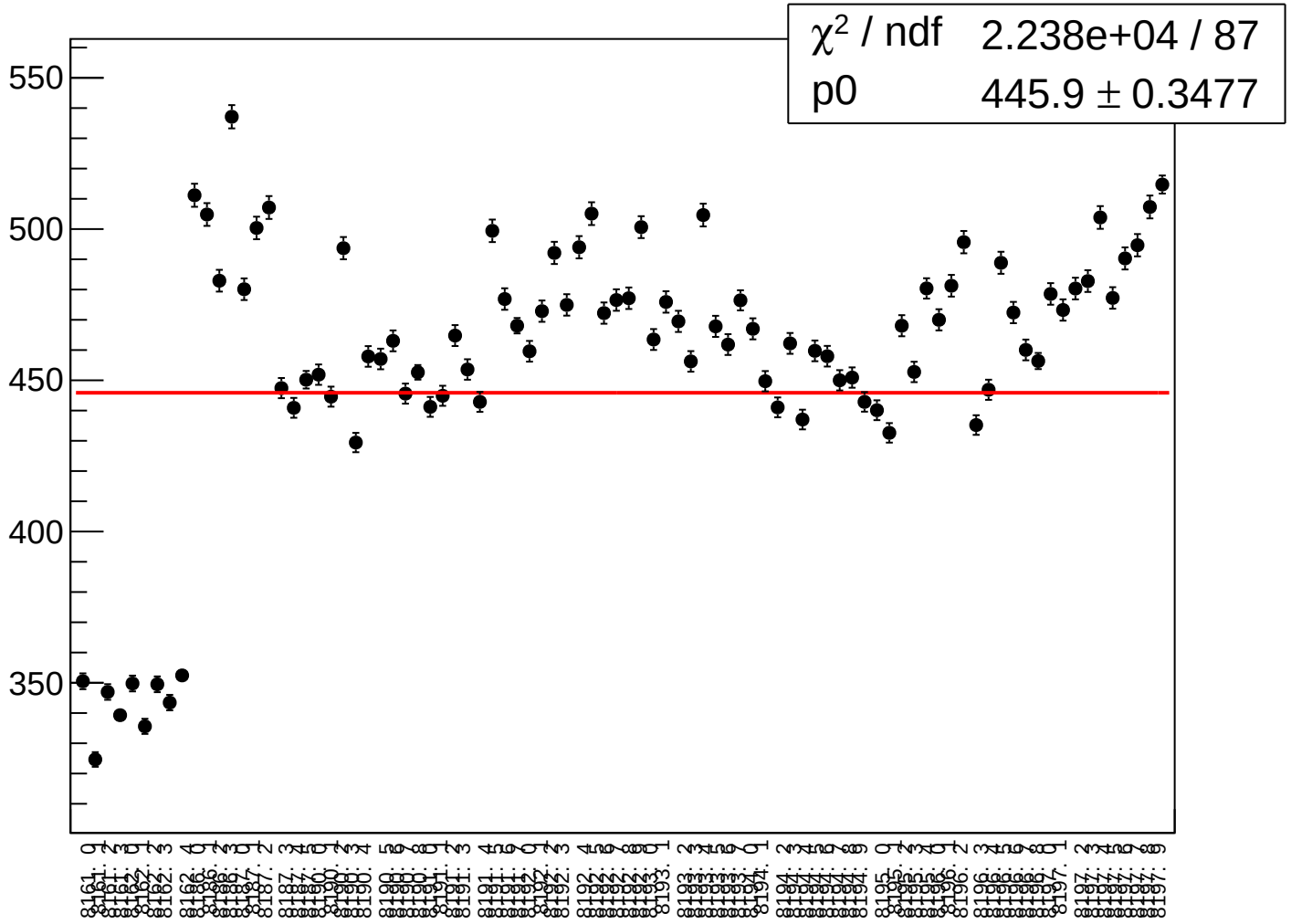

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 74.53 / 87
p0 −234.8 ± 70.96
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 194.3
Std Dev 0
2
1
0
−1
−2

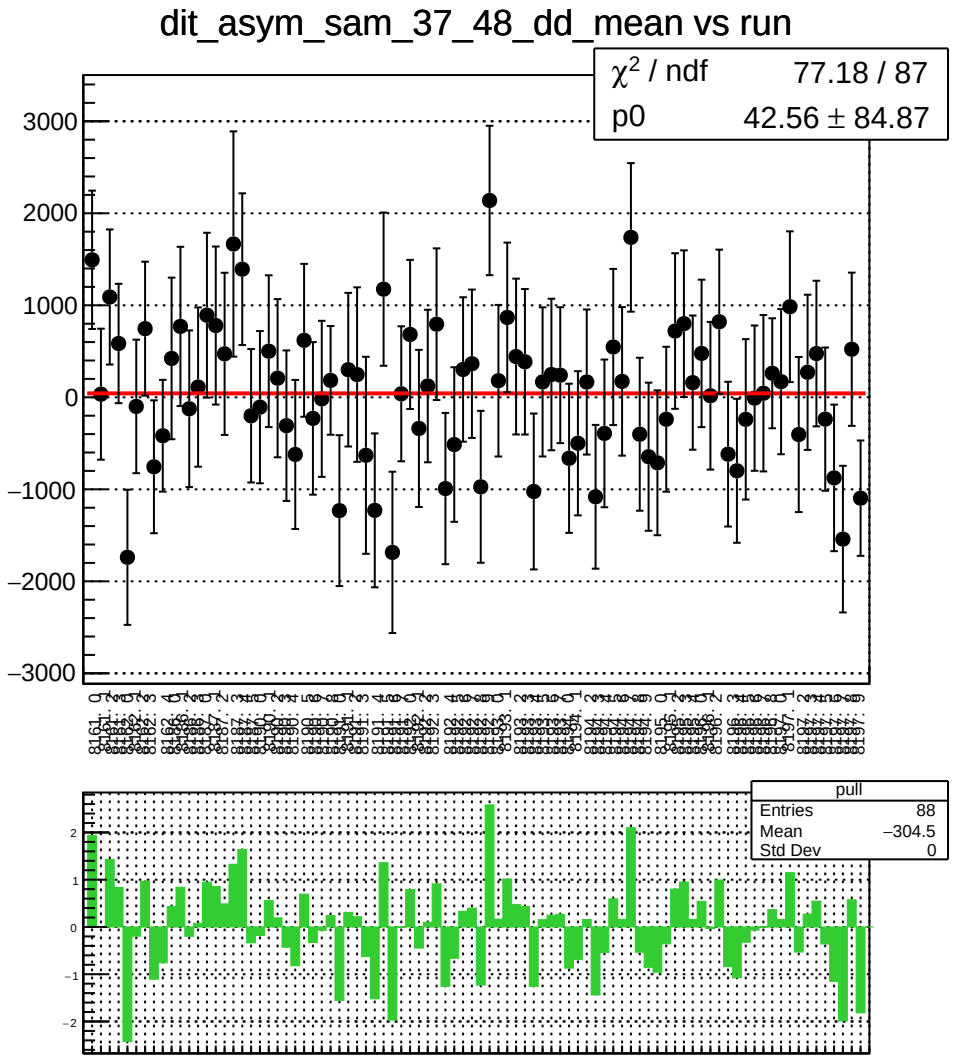

pull1D
Entries 88
Mean 0.009198
Std Dev 0.9202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

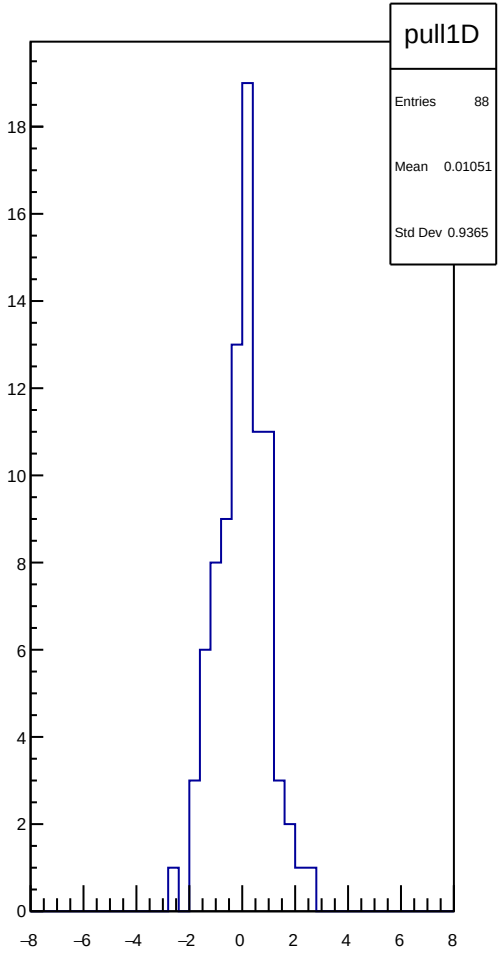

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 6165 / 87
p0 64.66 ± 0.05018
80
75
70
65
60
55

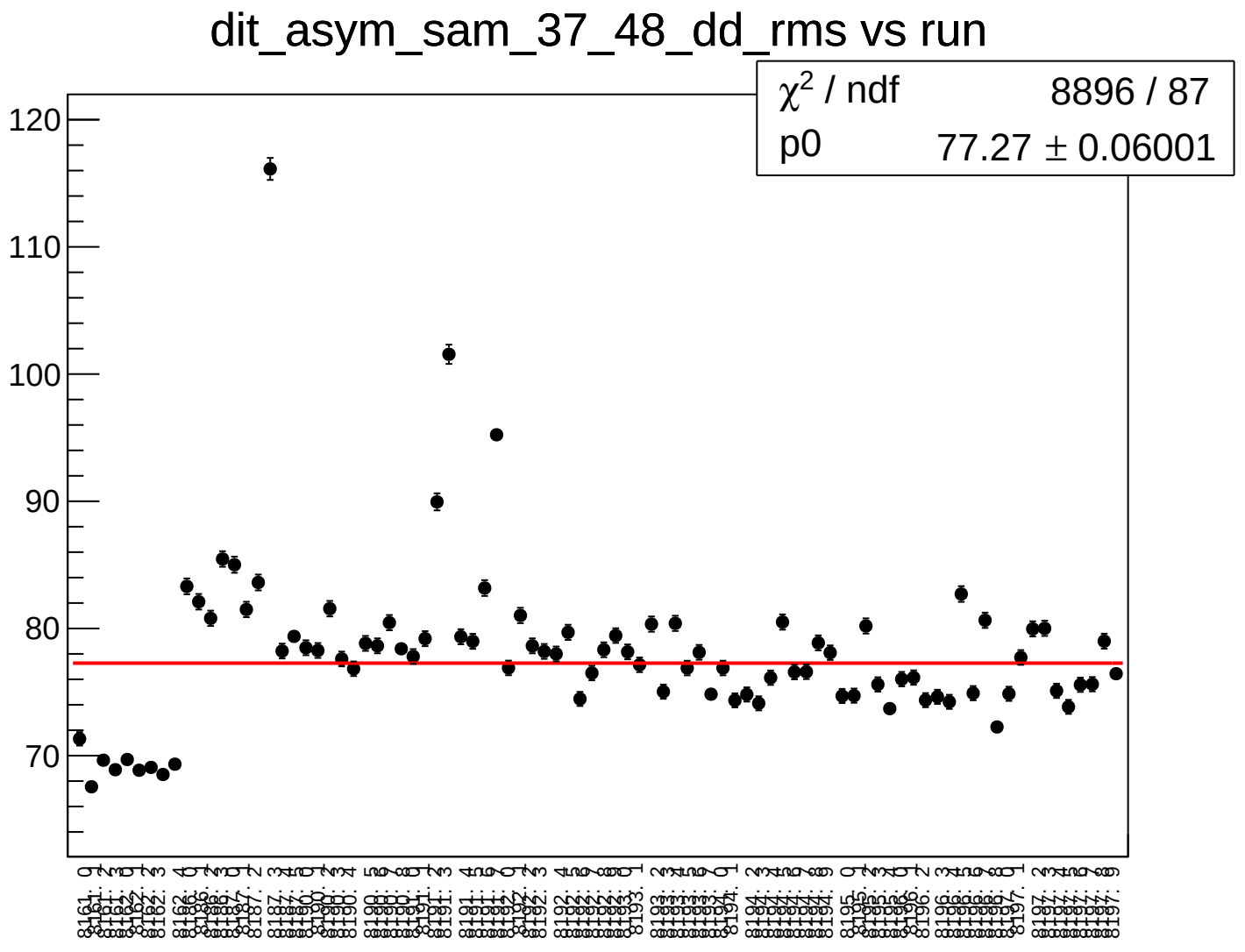

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.2 / 87
p0 2193 ± 491.7
pull
Entries 88
Mean 59.31
Std Dev 21.01

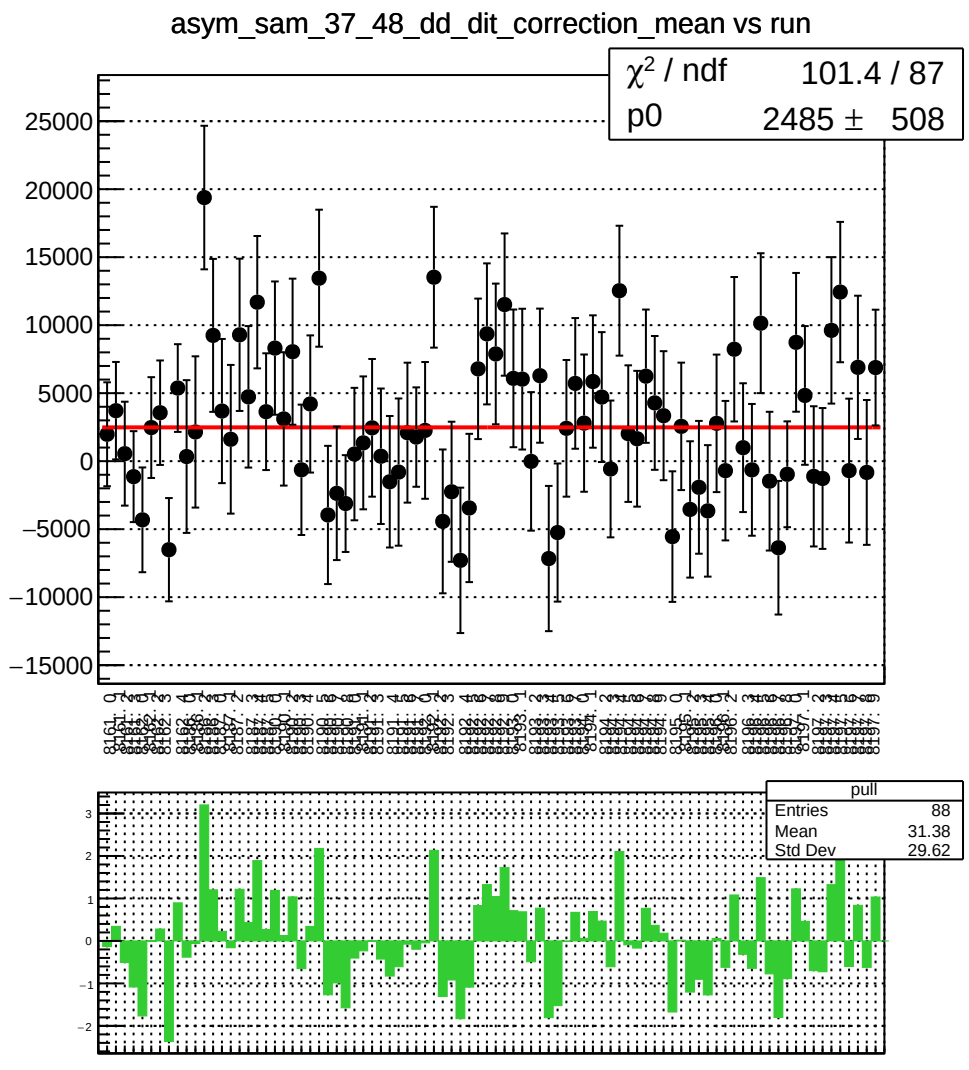

pull1D
Entries 88
Mean 0.03067
Std Dev 1.077

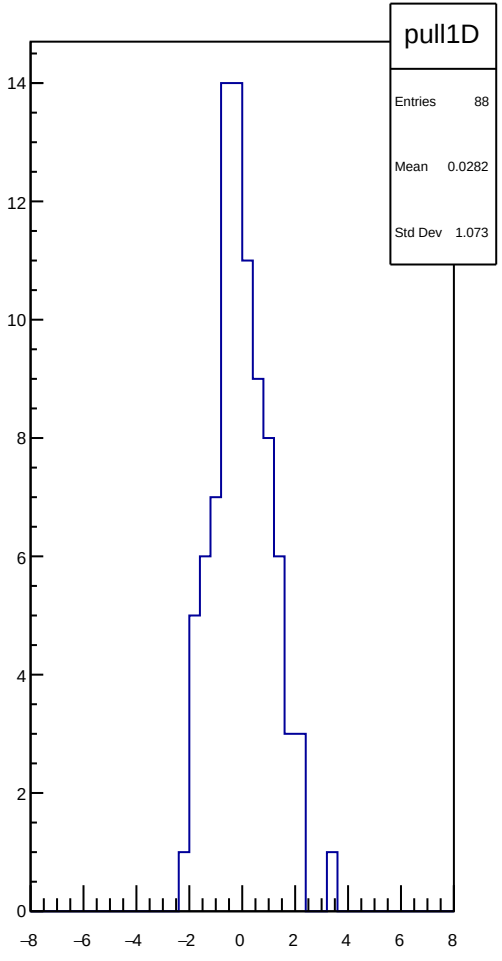

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.238e+04 / 87
p0 445.9 ± 0.3477
550
500
450
400
350

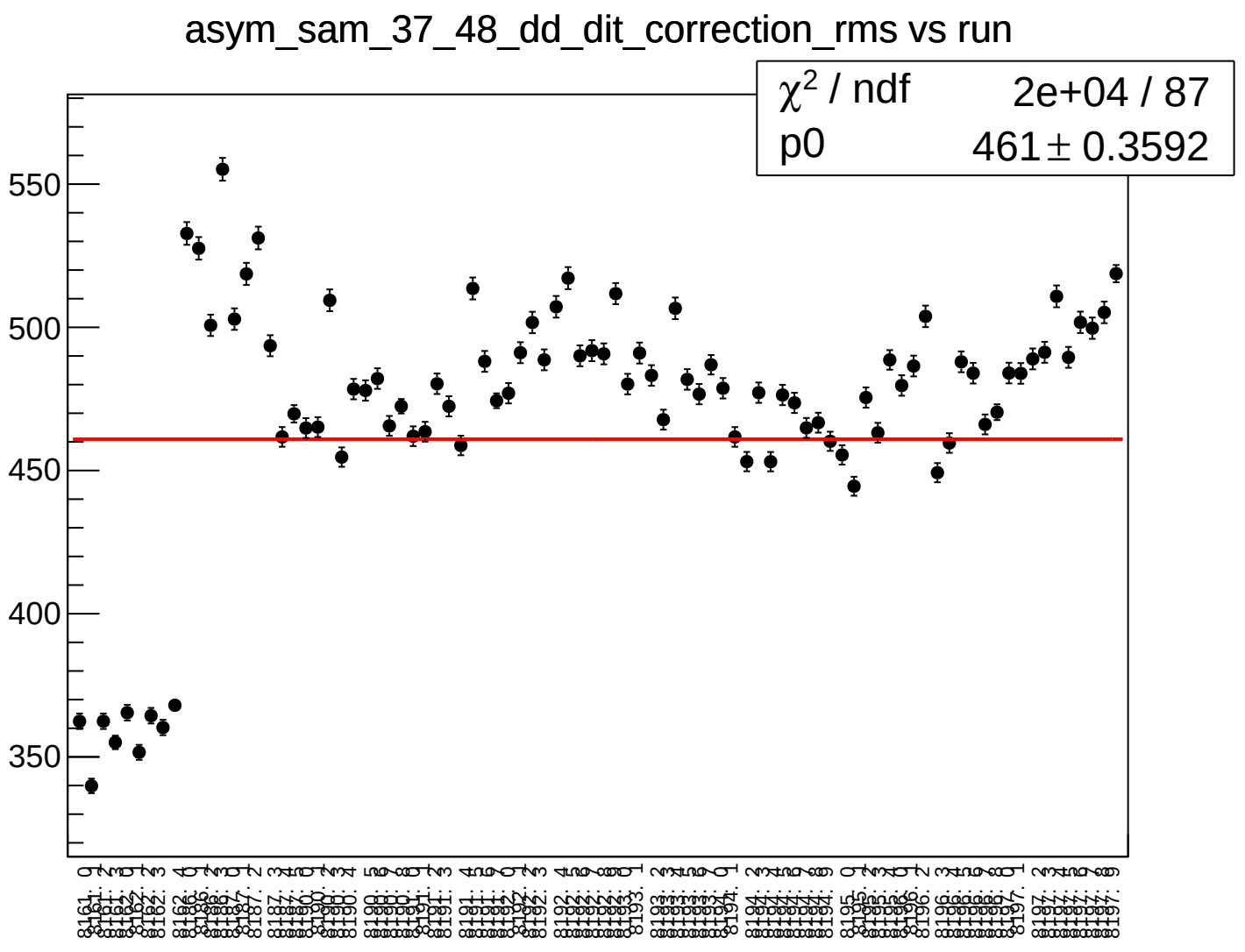

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.18 / 87
p0 42.56 ± 84.87
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −304.5
Std Dev 0
2
1
0
−1
−2

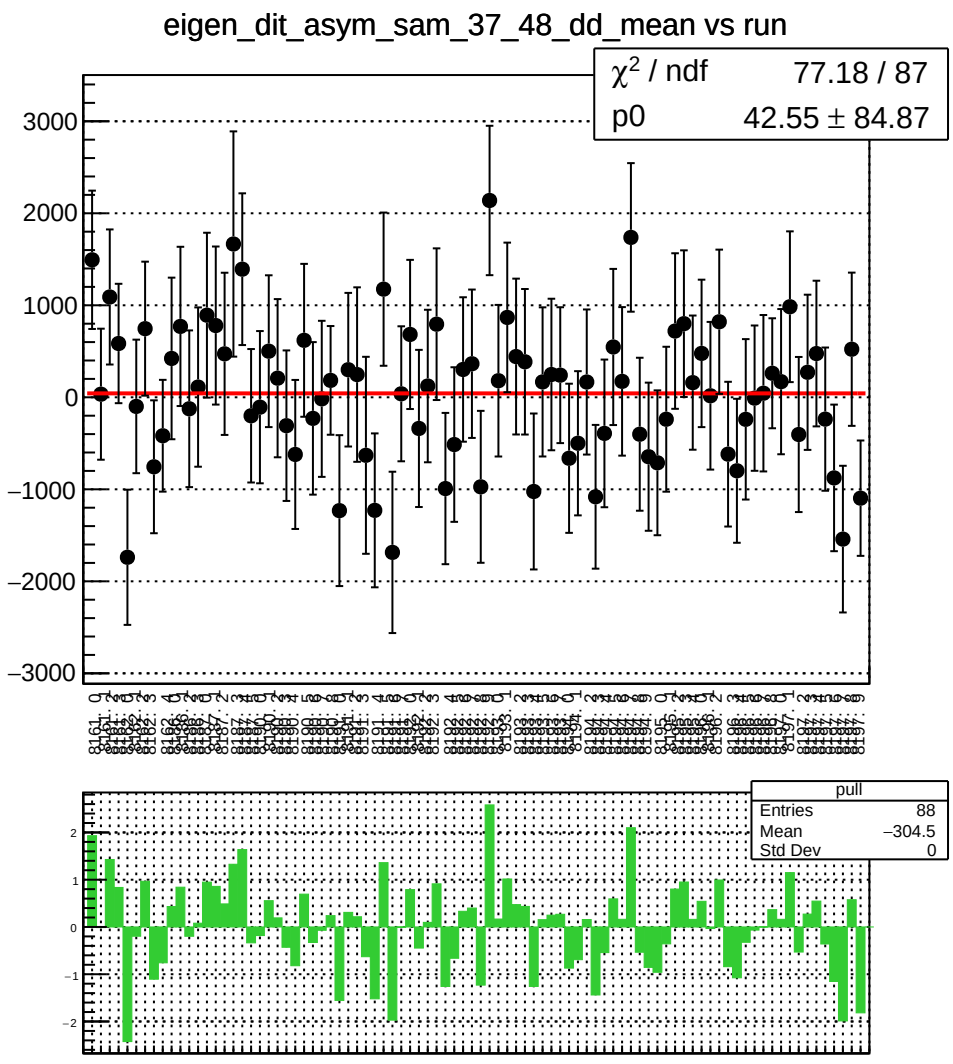

pull1D
Entries 88
Mean 0.01051
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

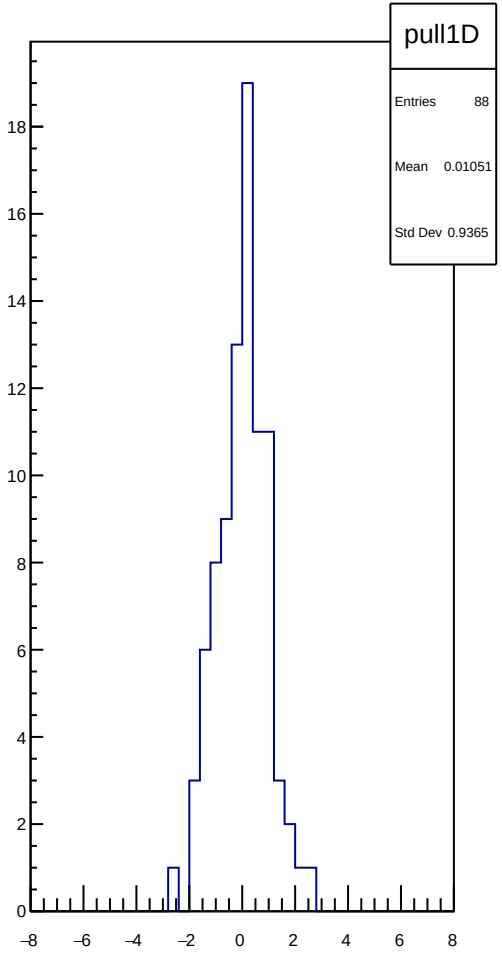

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 8896 / 87
p0 77.27 ± 0.06001
120
110
100
90
80
70

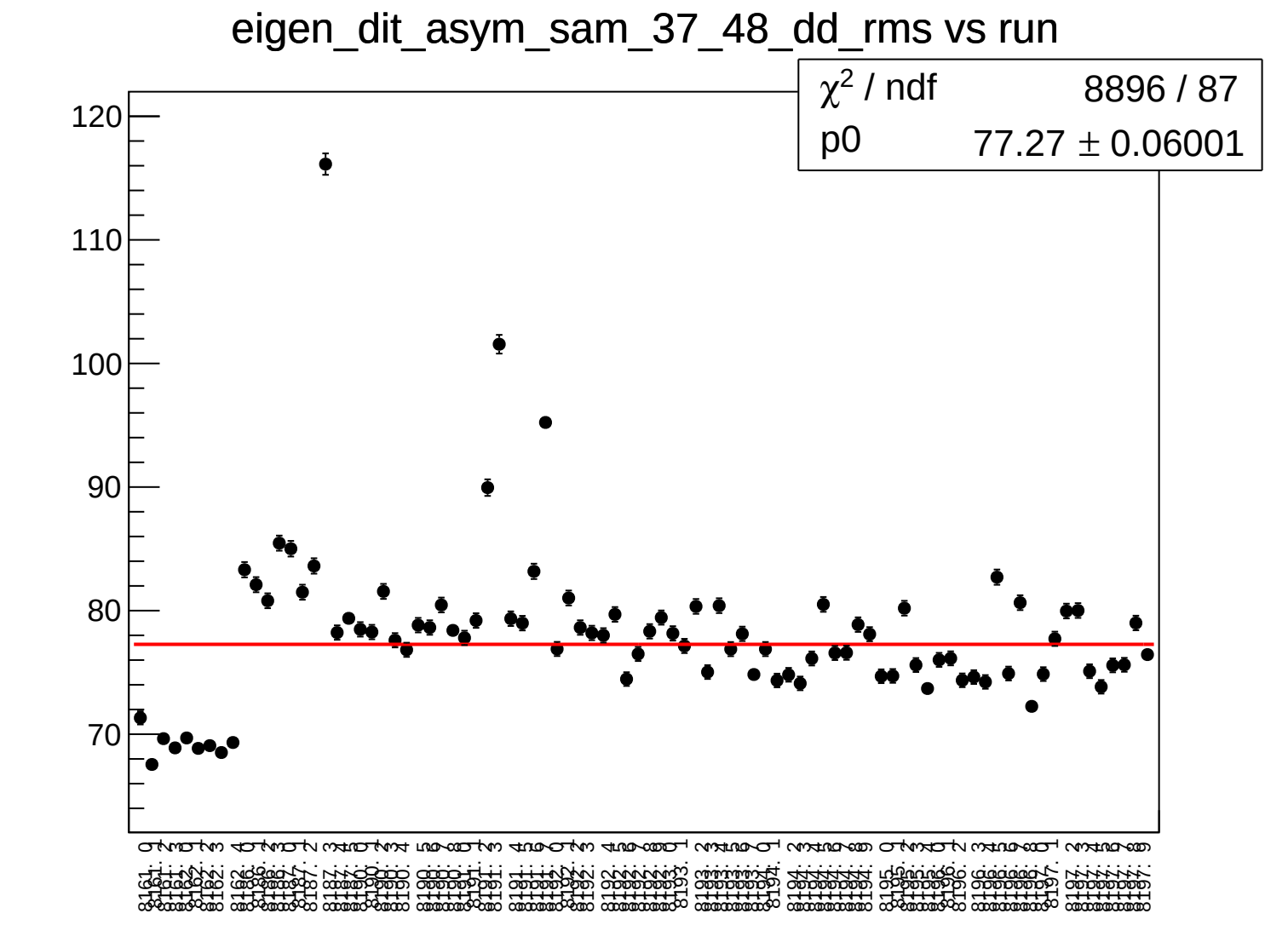

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 101.4 / 87
p0 2485 ± 508
pull
Entries 88
Mean 31.38
Std Dev 29.62

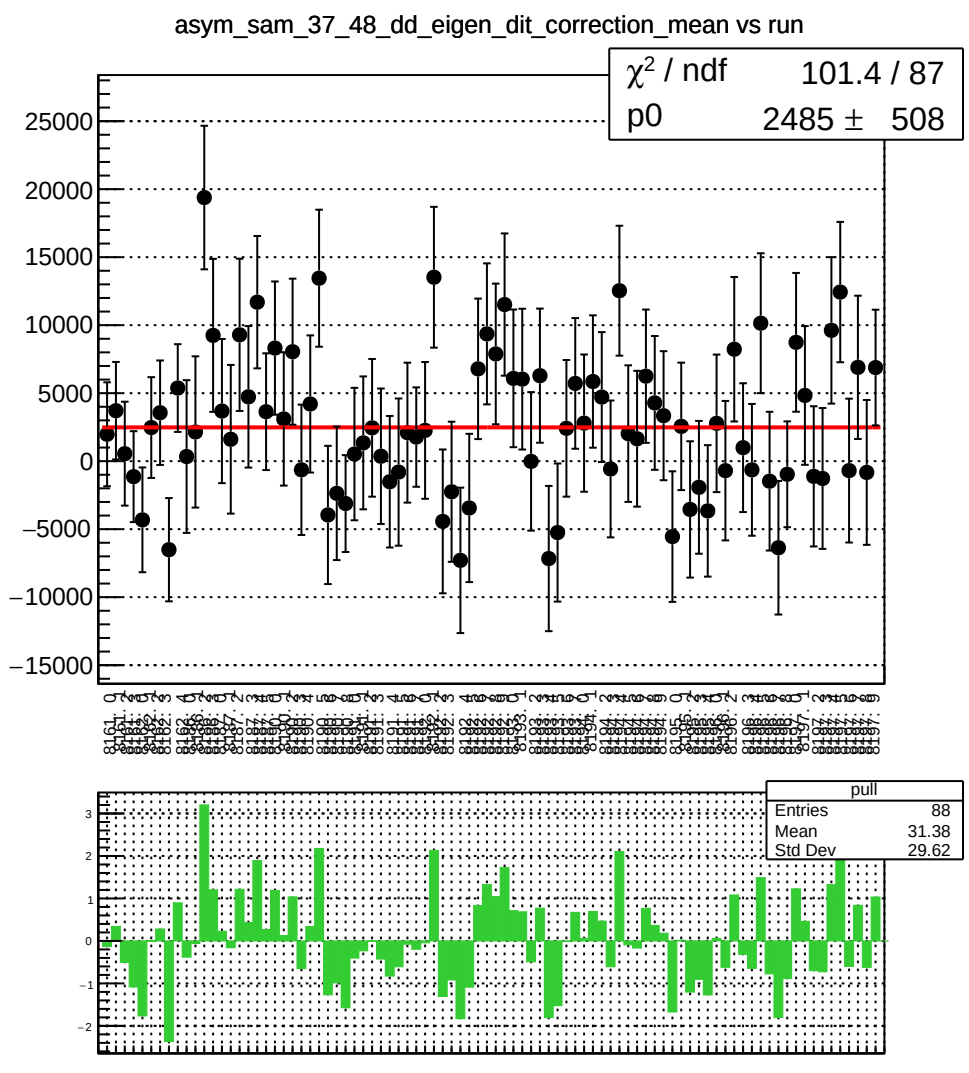

pull1D
Entries 88
Mean 0.0282
Std Dev 1.073

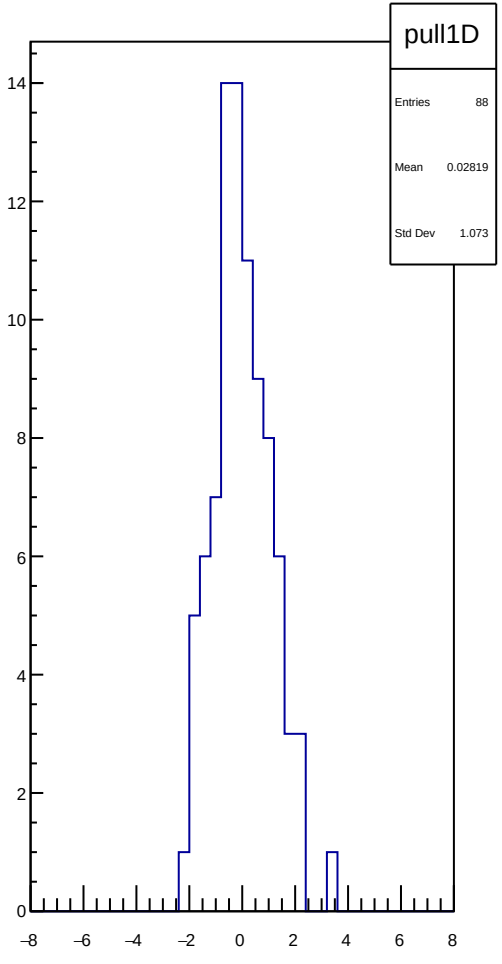

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2e+04 / 87
p0 461 ± 0.3592
550
500
450
400
350

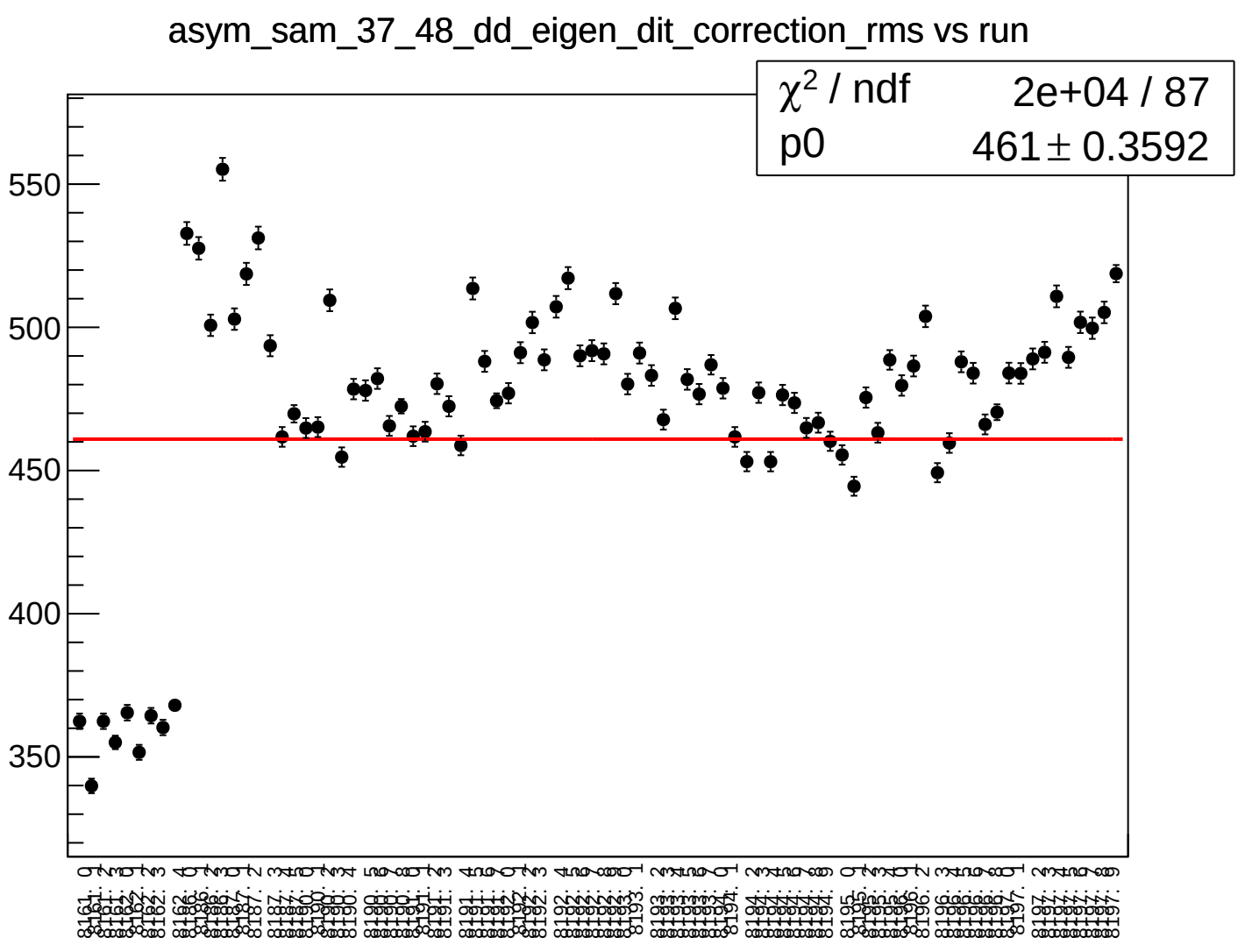

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.18 / 87
p0 42.55 ± 84.87
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −304.5
Std Dev 0
2
1
0
−1
−2

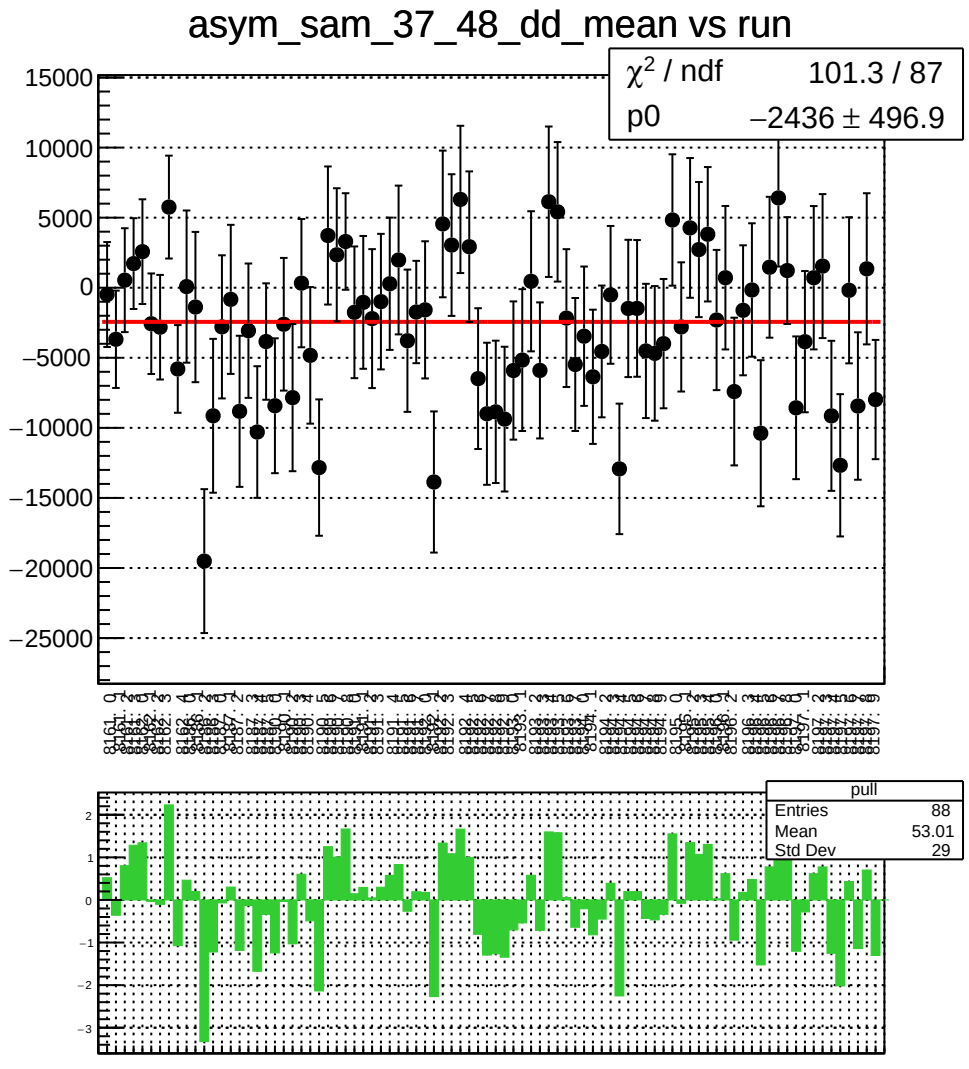

pull1D
Entries 88
Mean 0.01051
Std Dev 0.9365
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

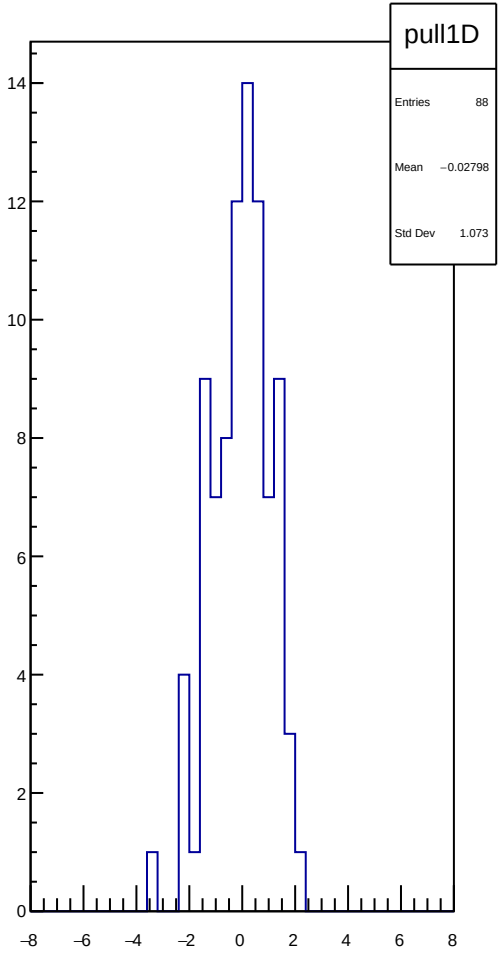

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 8896 / 87
p0 77.27 ± 0.06001
120
110
100
90
80
70

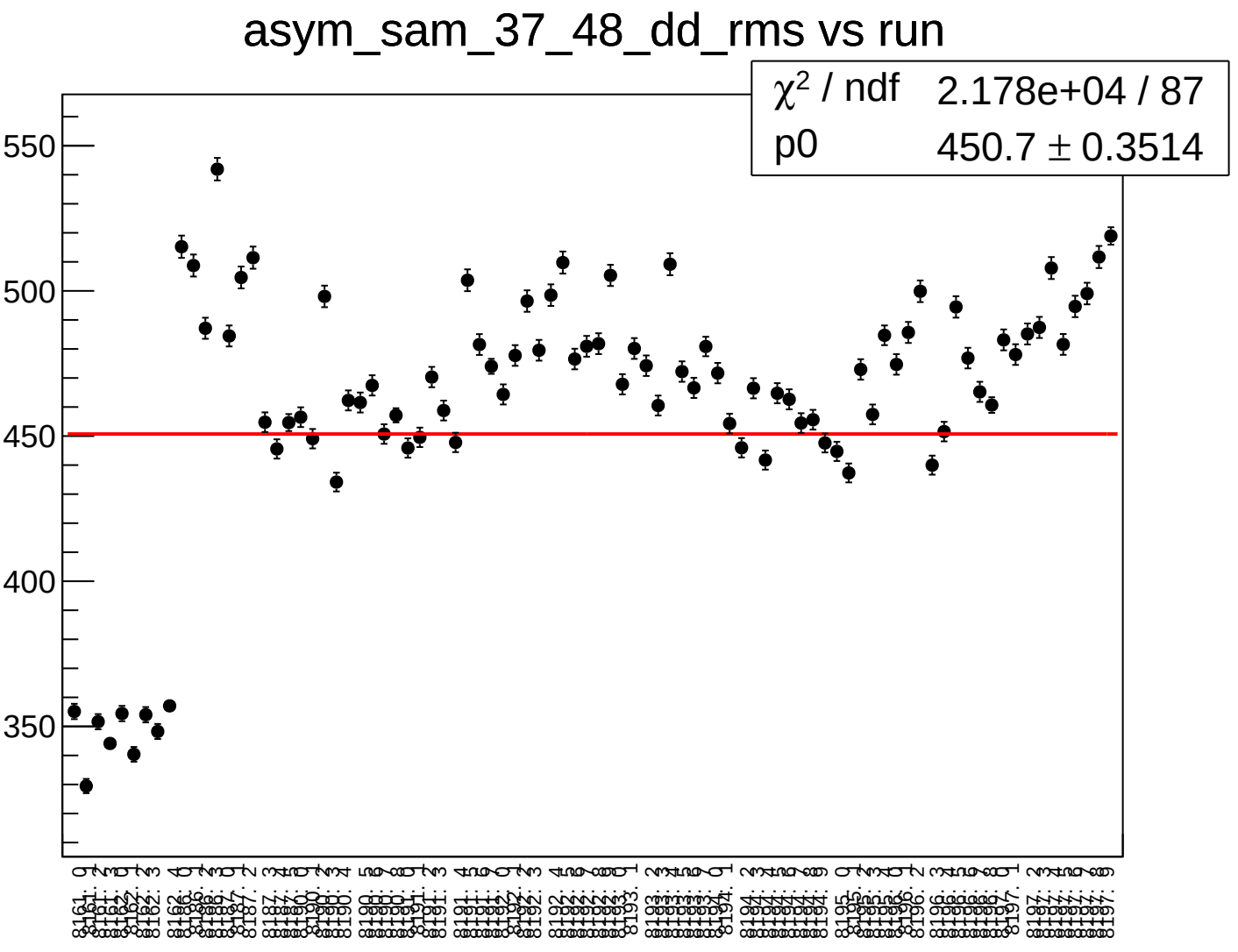

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.4 / 87
p0 2485 ± 508
pull
Entries 88
Mean 31.38
Std Dev 29.62

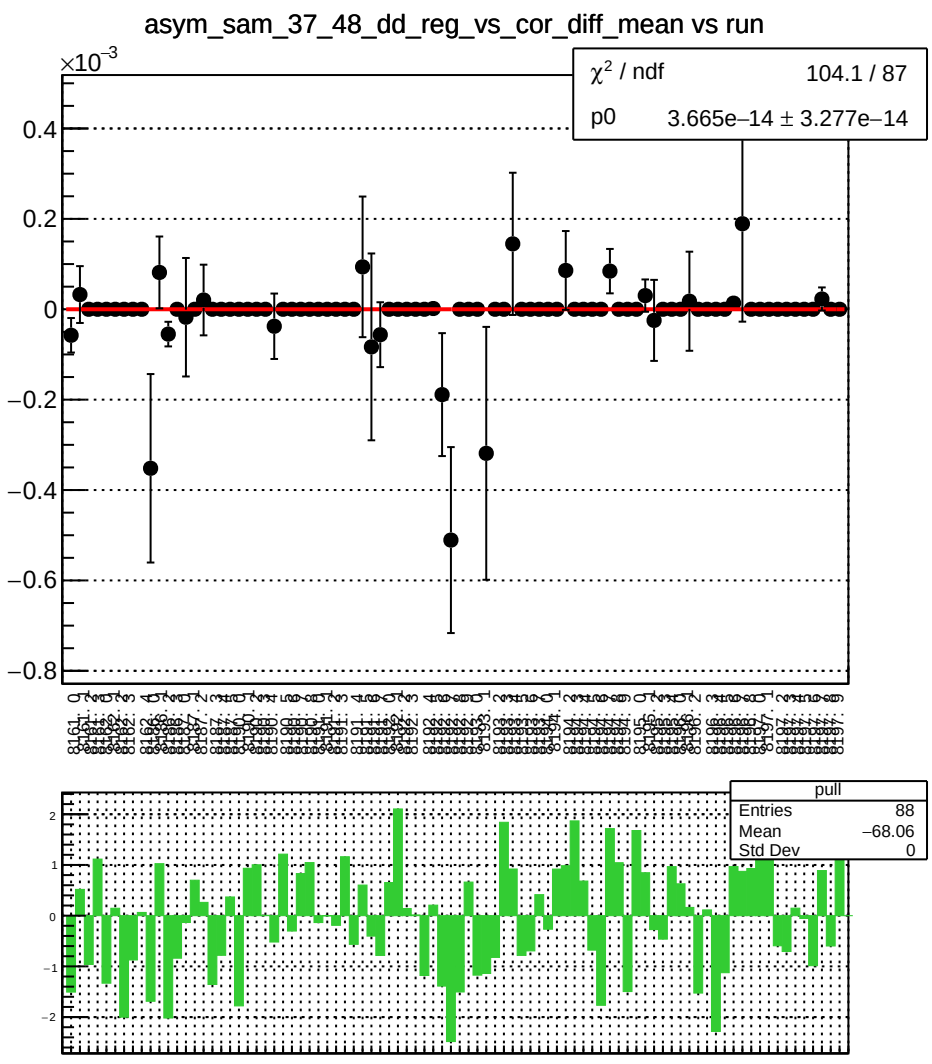

pull1D
Entries 88
Mean 0.02819
Std Dev 1.073

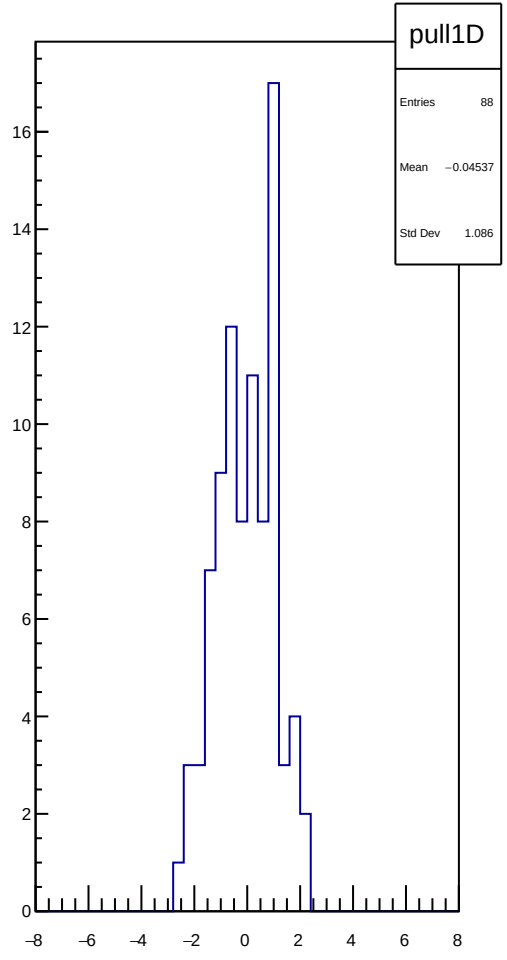

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2e+04 / 87
p0 461 ± 0.3592
550
500
450
400
350

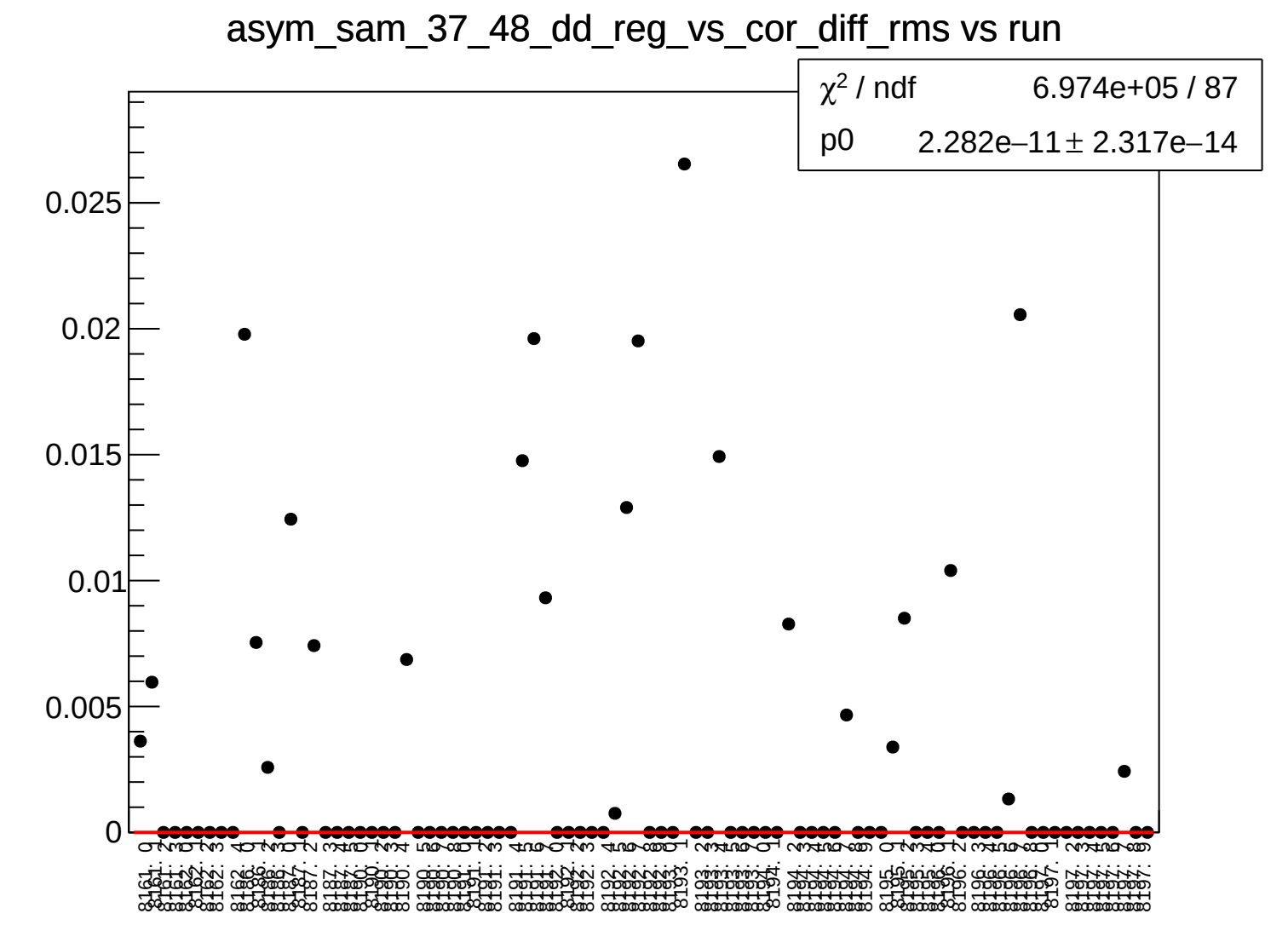

asym_sam_37_48_dd_mean vs run
χ² / ndf 101.3 / 87
p0 −2436 ± 496.9
pull
Entries 88
Mean 53.01
Std Dev 29

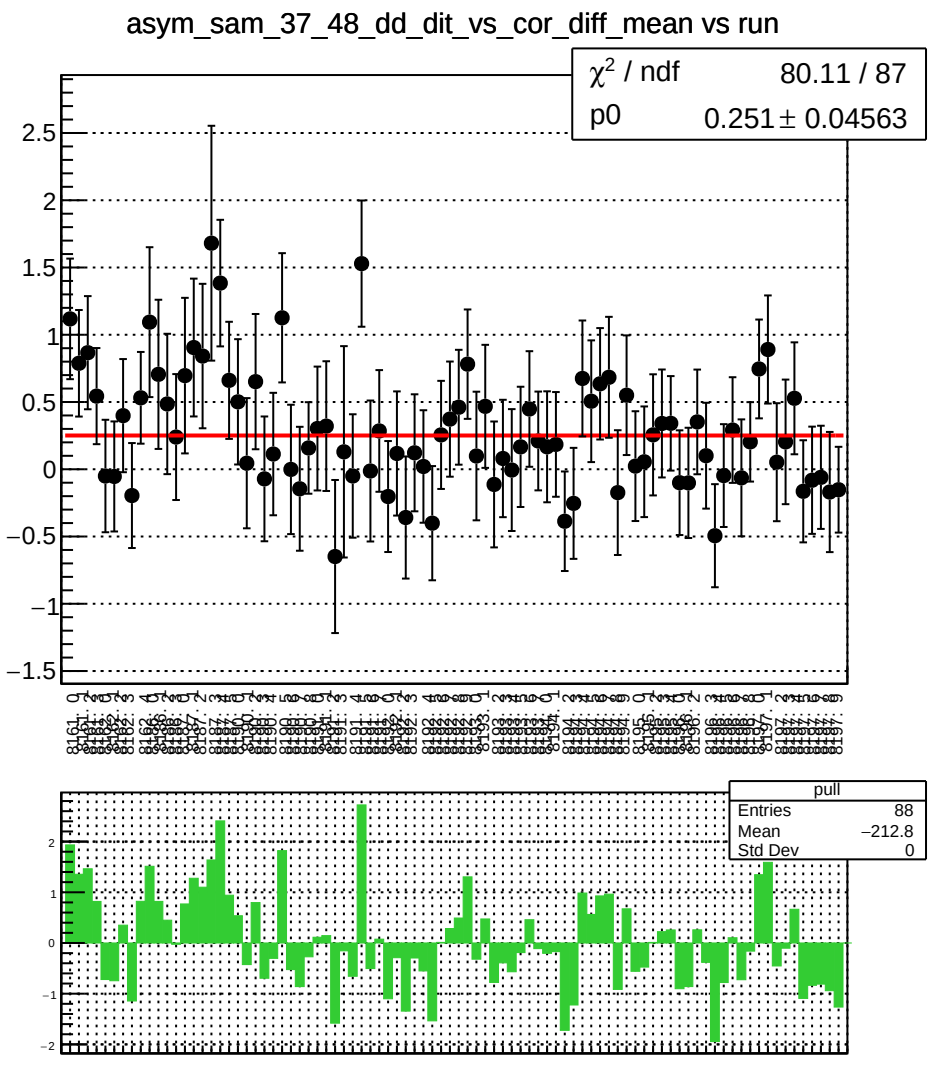

pull1D
Entries 88
Mean −0.02798
Std Dev 1.073

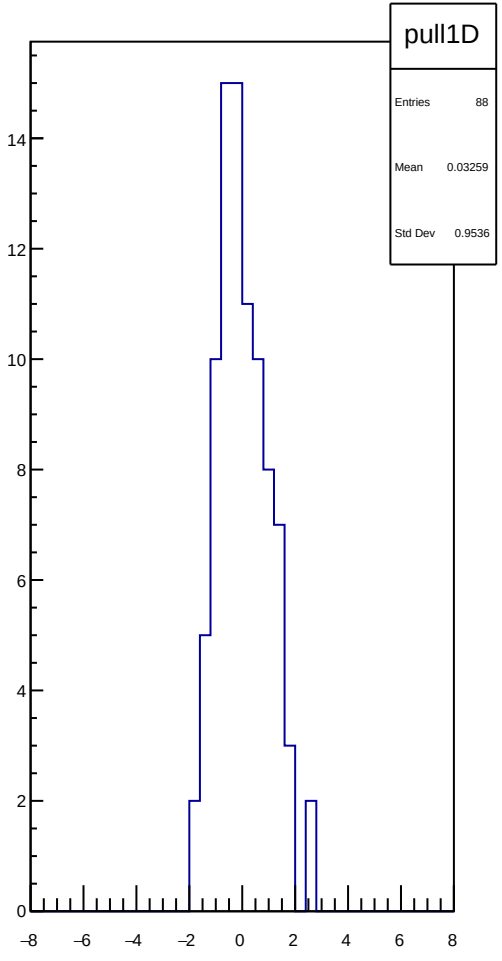

asym_sam_37_48_dd_rms vs run
χ² / ndf 2.178e+04 / 87
p0 450.7 ± 0.3514
550
500
450
400
350

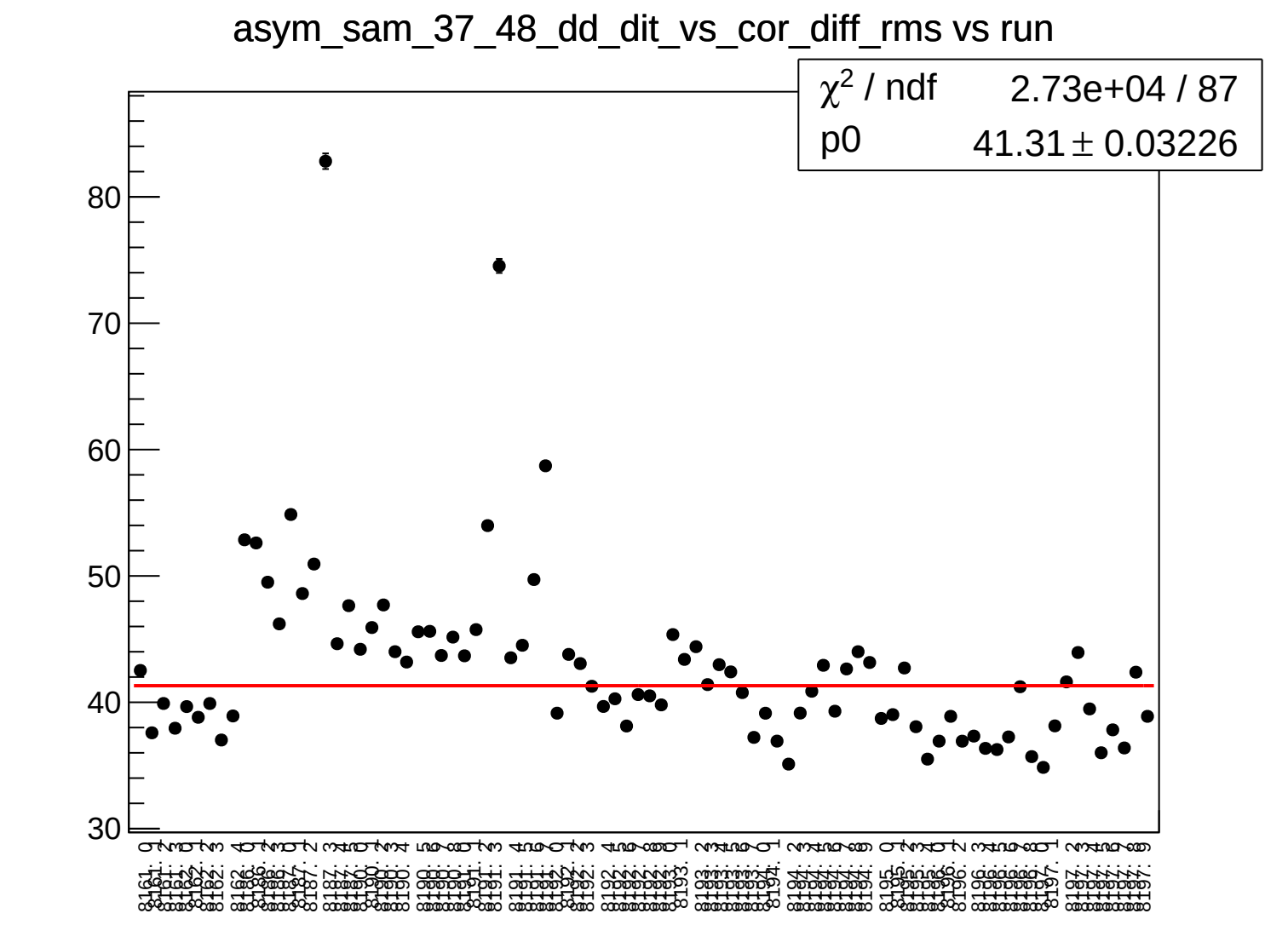

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 104.1 / 87
p0 3.665e−14 ± 3.277e−14
pull
Entries 88
Mean −68.06
Std Dev 0

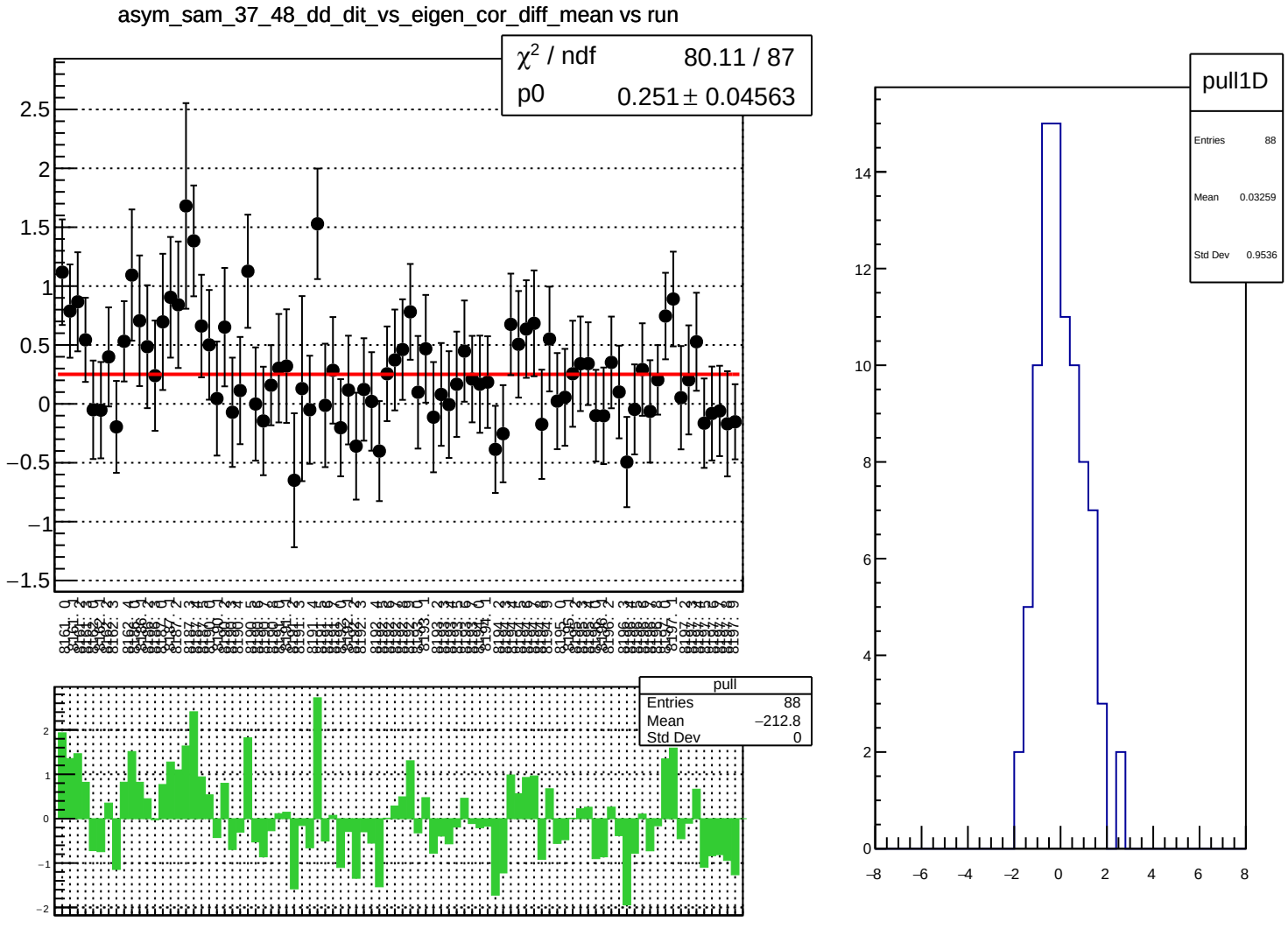

pull1D
Entries 88
Mean −0.04537
Std Dev 1.086

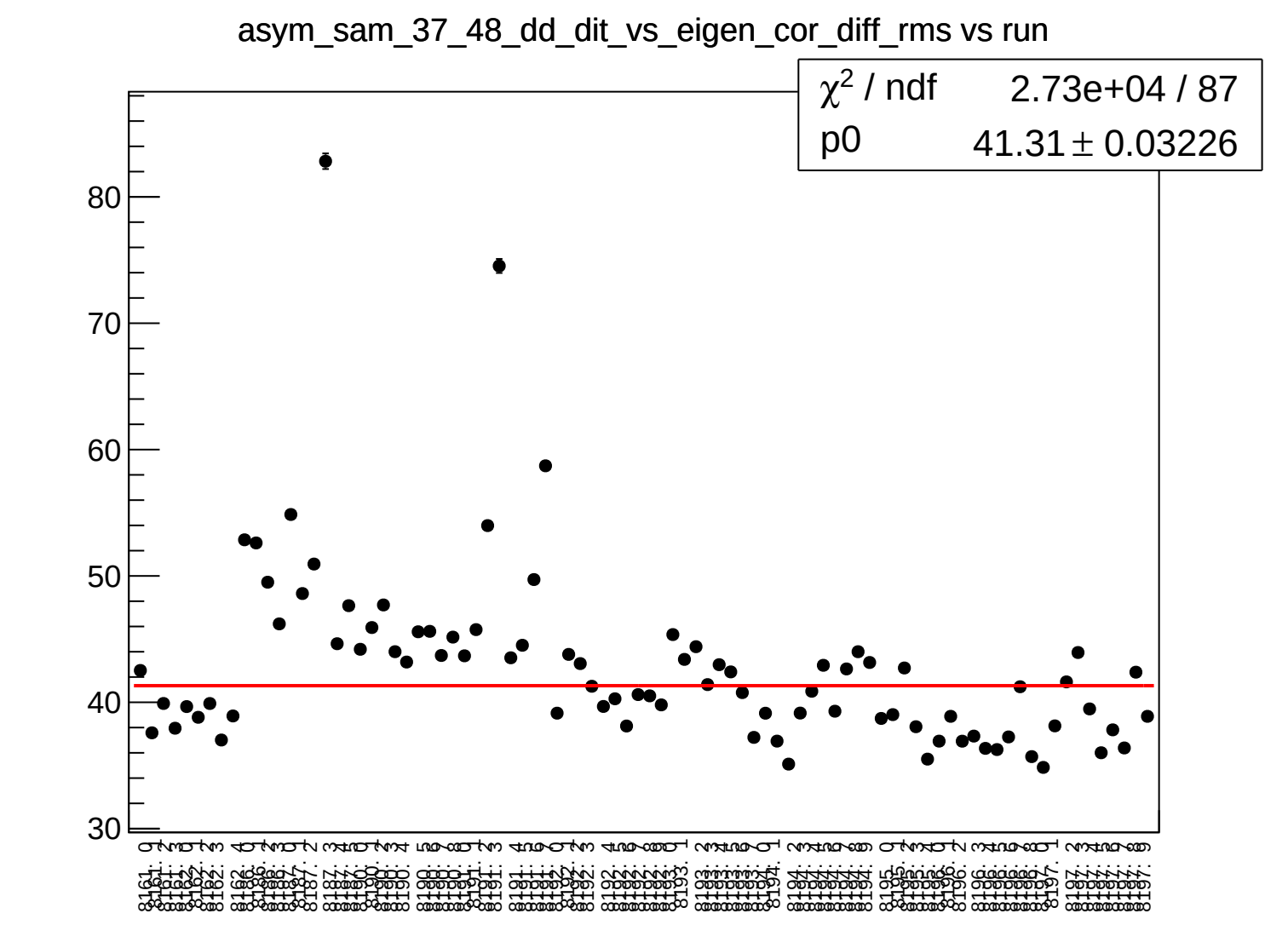

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.974e+05 / 87
p0 2.282e−11 ± 2.317e−14
0.025
0.02
0.015
0.01
0.005
0

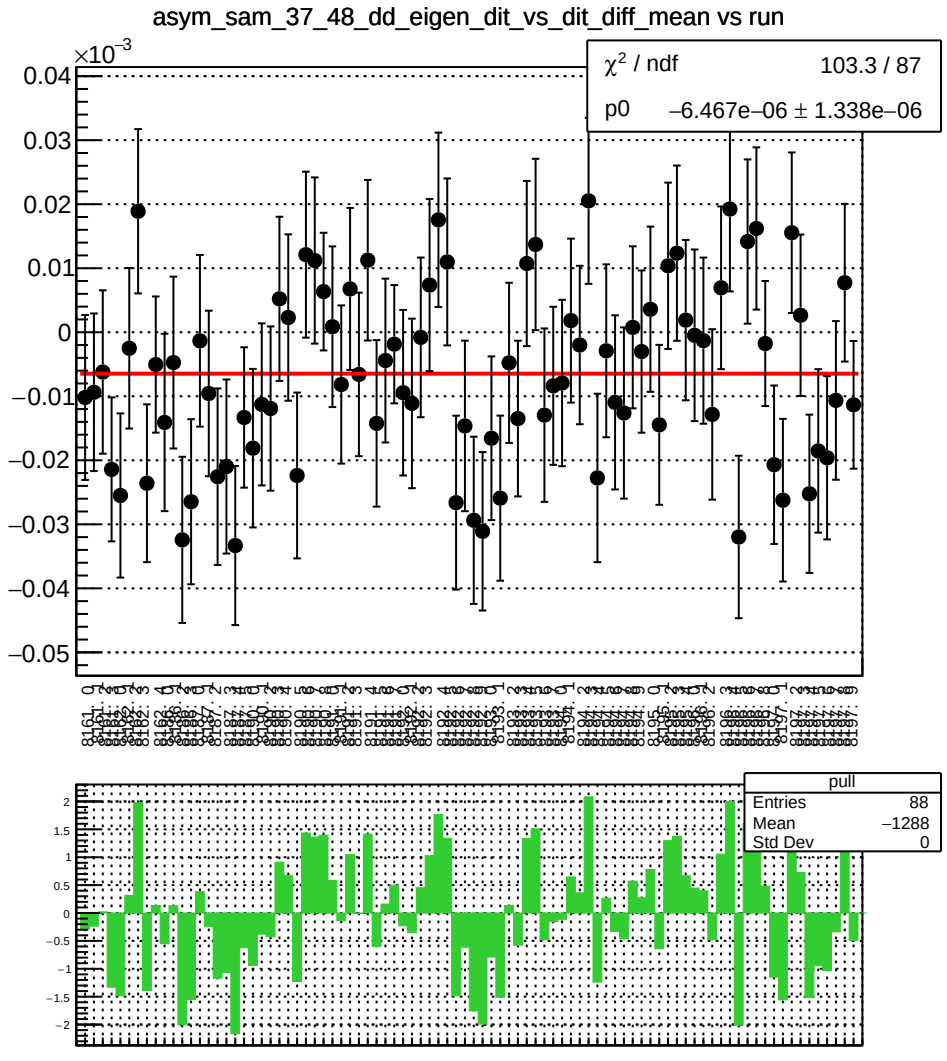

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.11 / 87
p0 0.251 ± 0.04563
pull
Entries 88
Mean −212.8
Std Dev 0

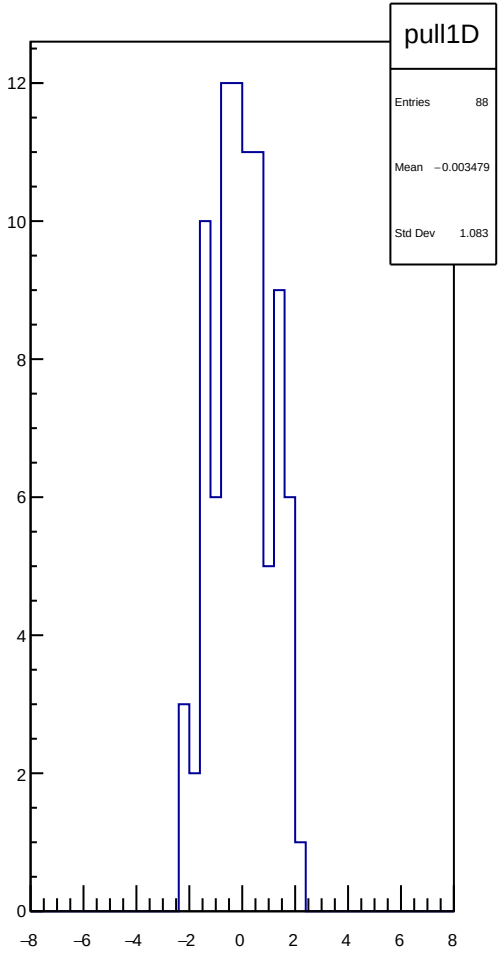

pull1D
Entries 88
Mean 0.03259
Std Dev 0.9536

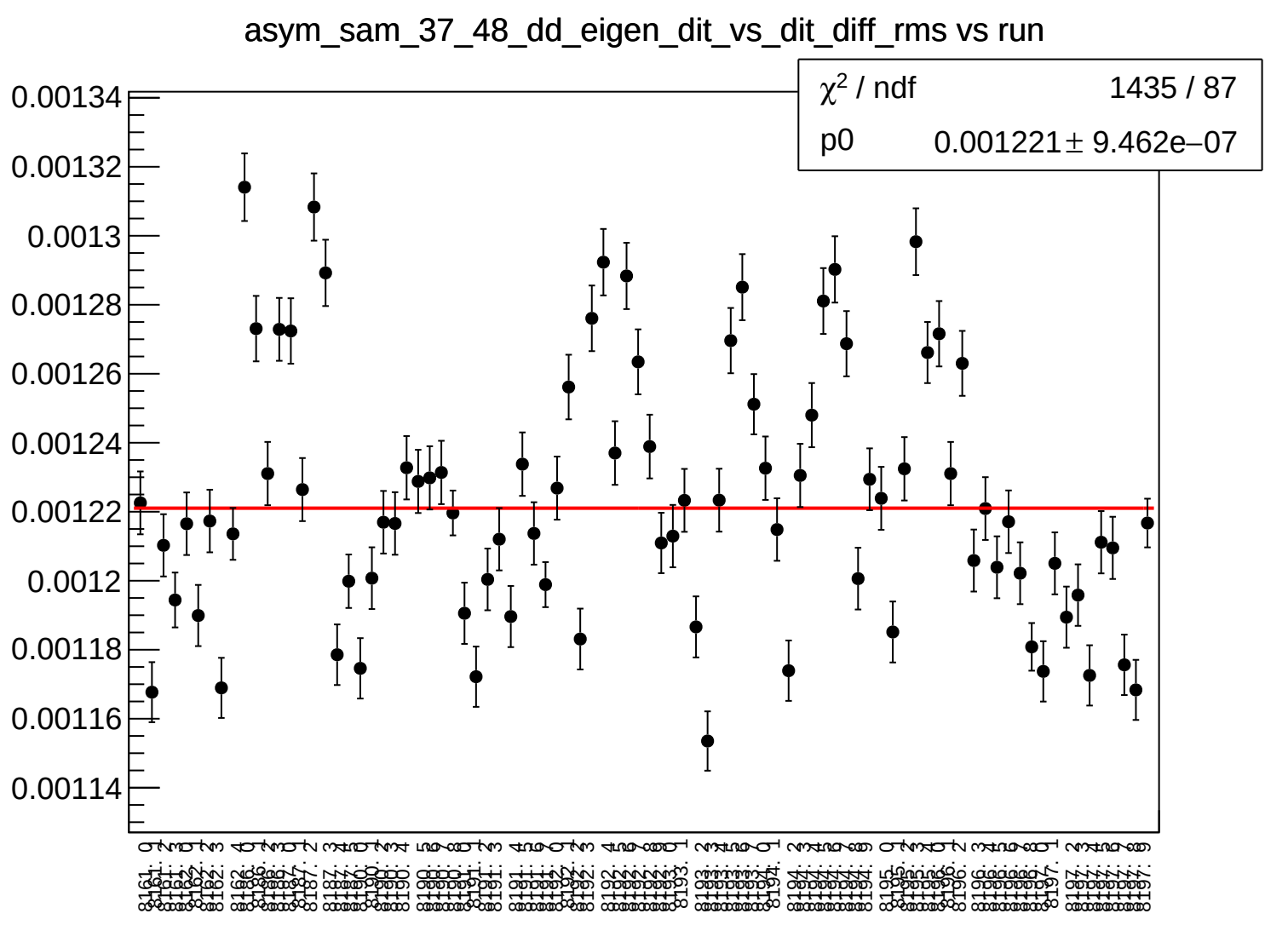

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.73e+04 / 87
p0 41.31 ± 0.03226
80
70
60
50
40
30

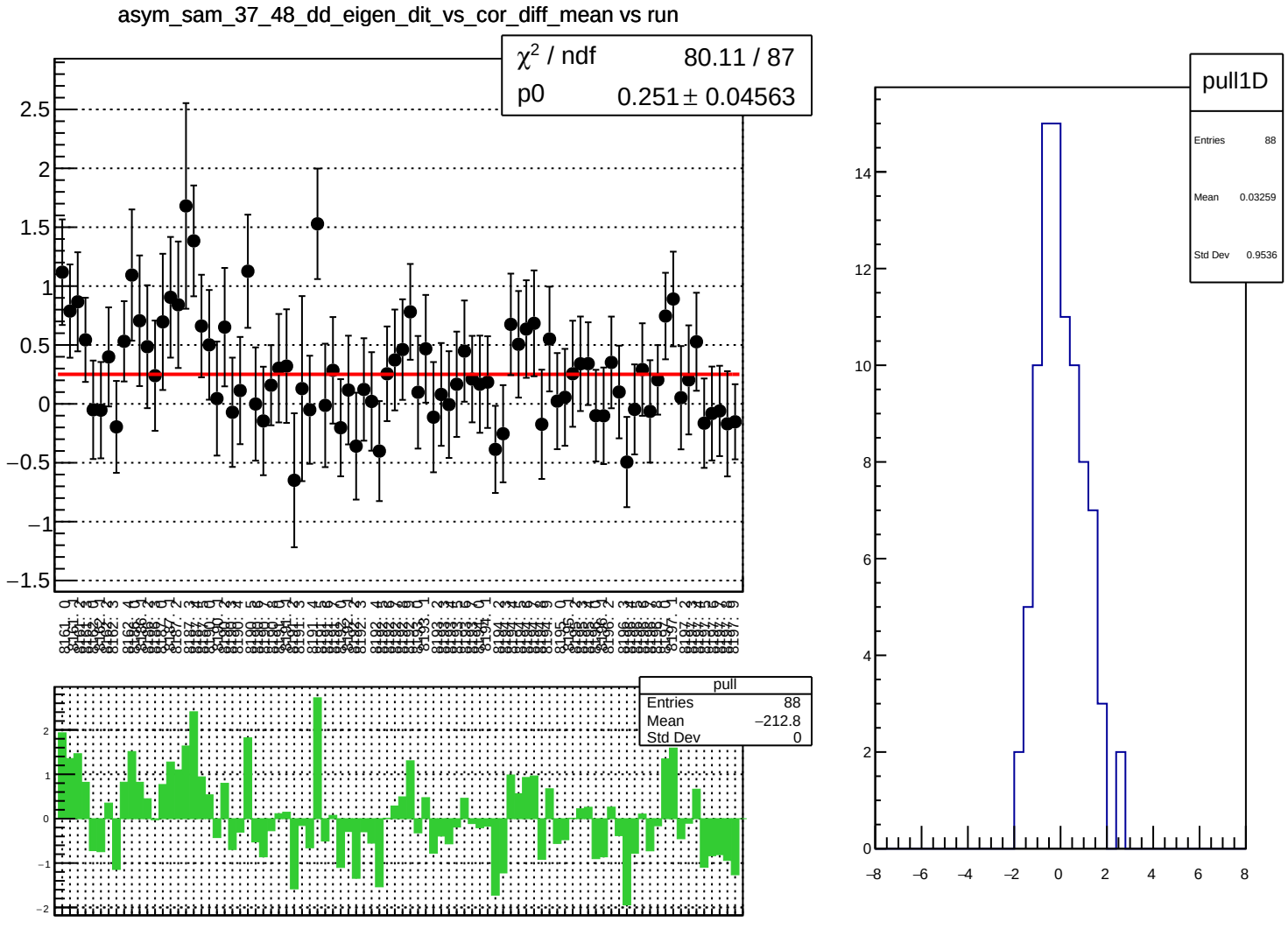

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.11 / 87
p0 0.251 ± 0.04563
pull
Entries 88
Mean −212.8
Std Dev 0
pull1D
Entries 88
Mean 0.03259
Std Dev 0.9536

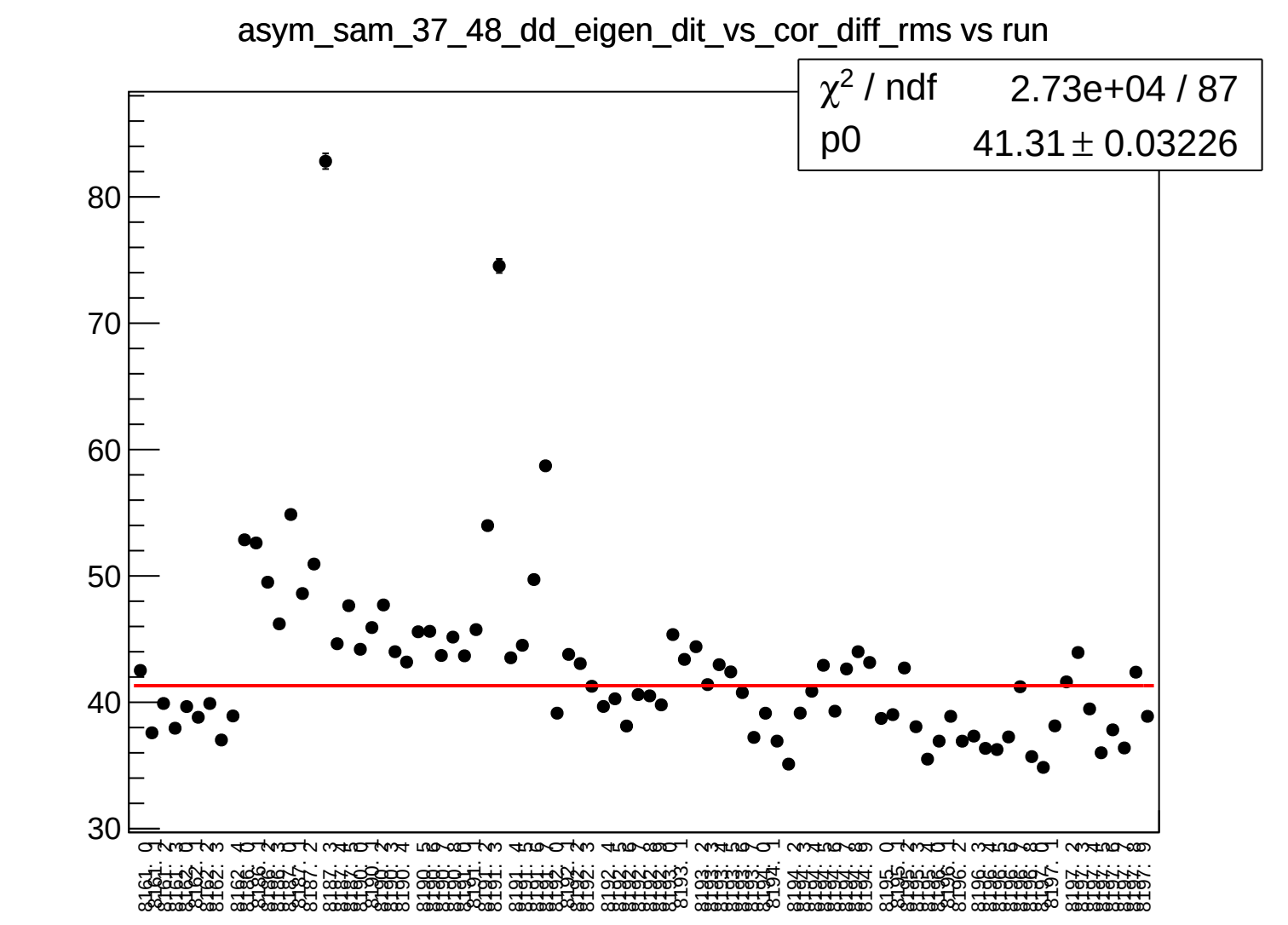

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.73e+04 / 87
p0 41.31 ± 0.03226
80
70
60
50
40
30

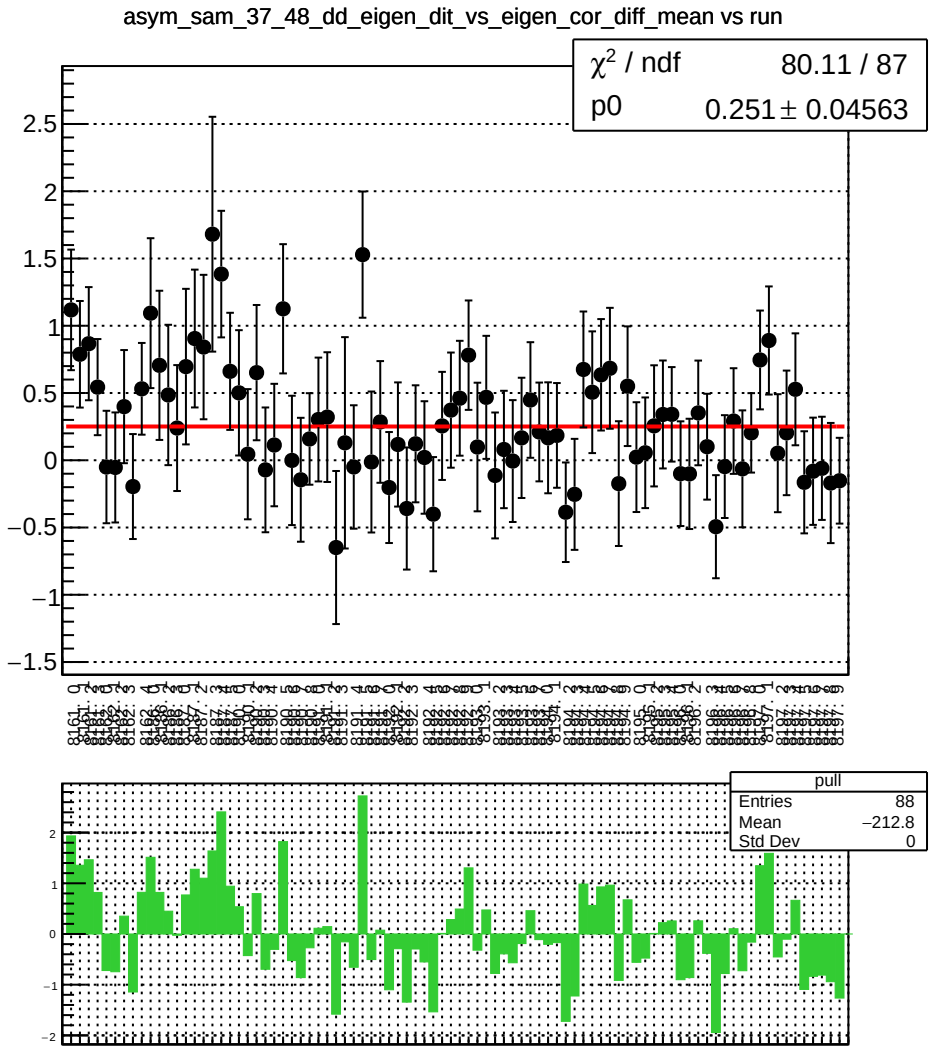

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.3 / 87
p0 −6.467e−06 ± 1.338e−06
pull
Entries 88
Mean −1288
Std Dev 0

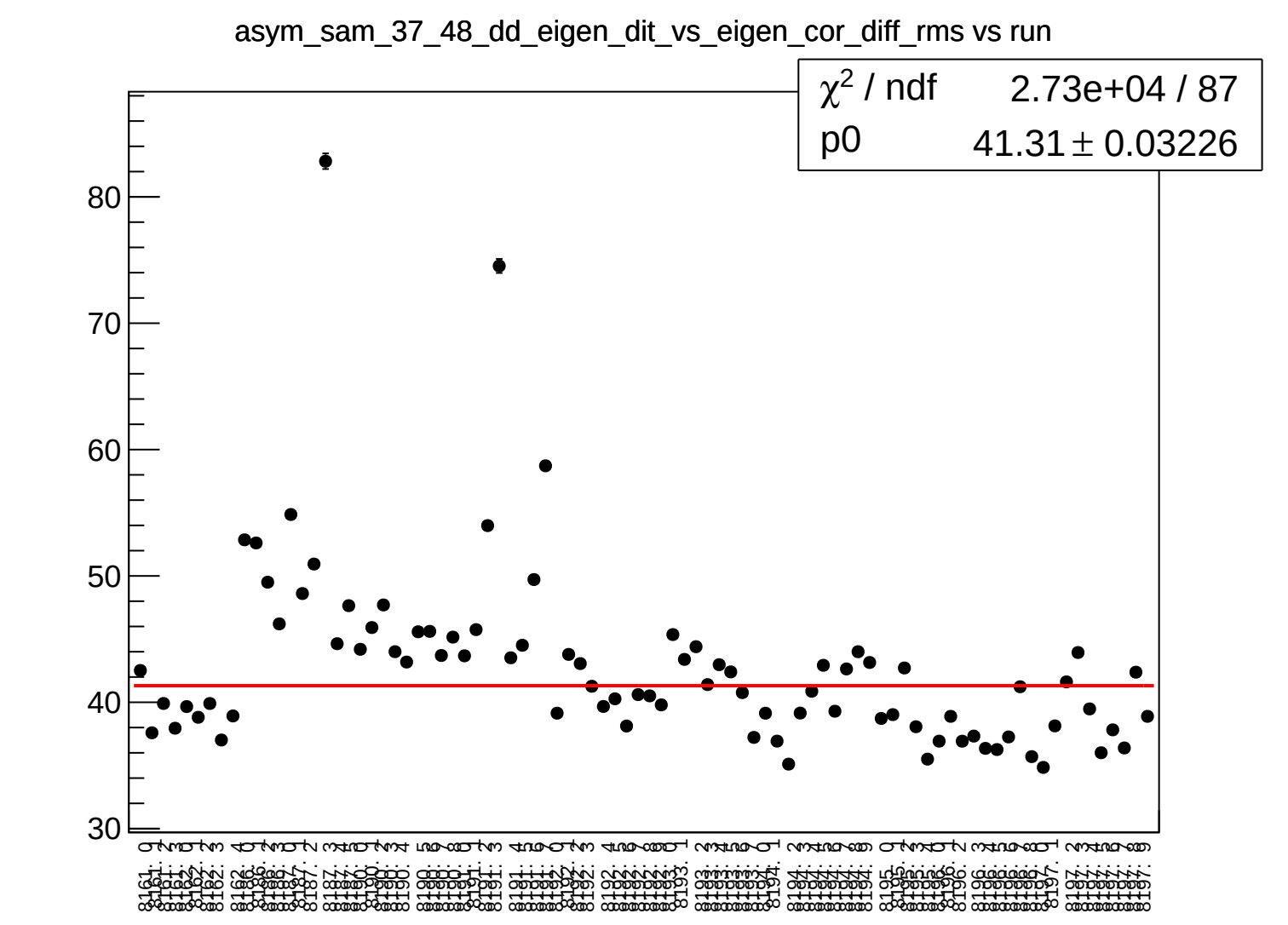

pull1D
Entries 88
Mean −0.003479
Std Dev 1.083

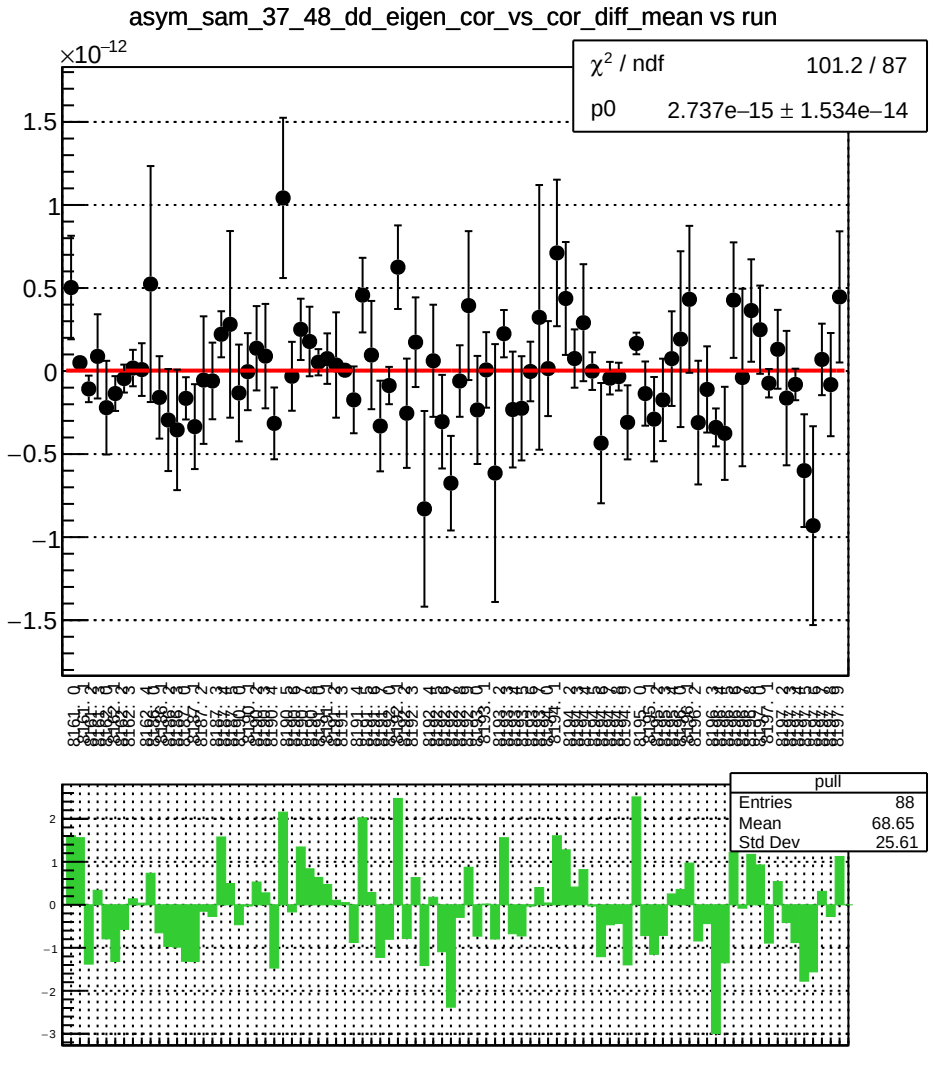

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1435 / 87
p0 0.001221 ± 9.462e−07
0.00134
0.00132
0.0013
0.00128
0.00126
0.00124
0.00122
0.0012
0.00118
0.00116
0.00114

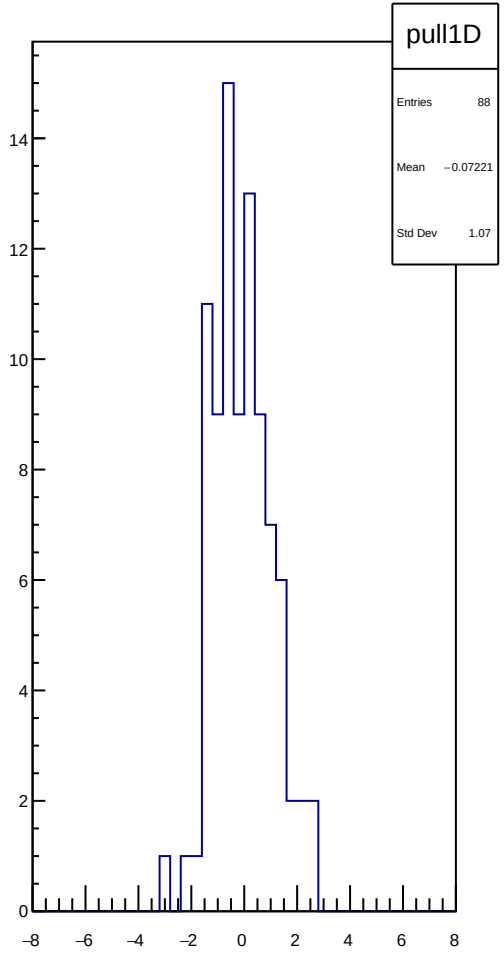

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.11 / 87
p0 0.251 ± 0.04563
pull
Entries 88
Mean −212.8
Std Dev 0
pull1D
Entries 88
Mean 0.03259
Std Dev 0.9536

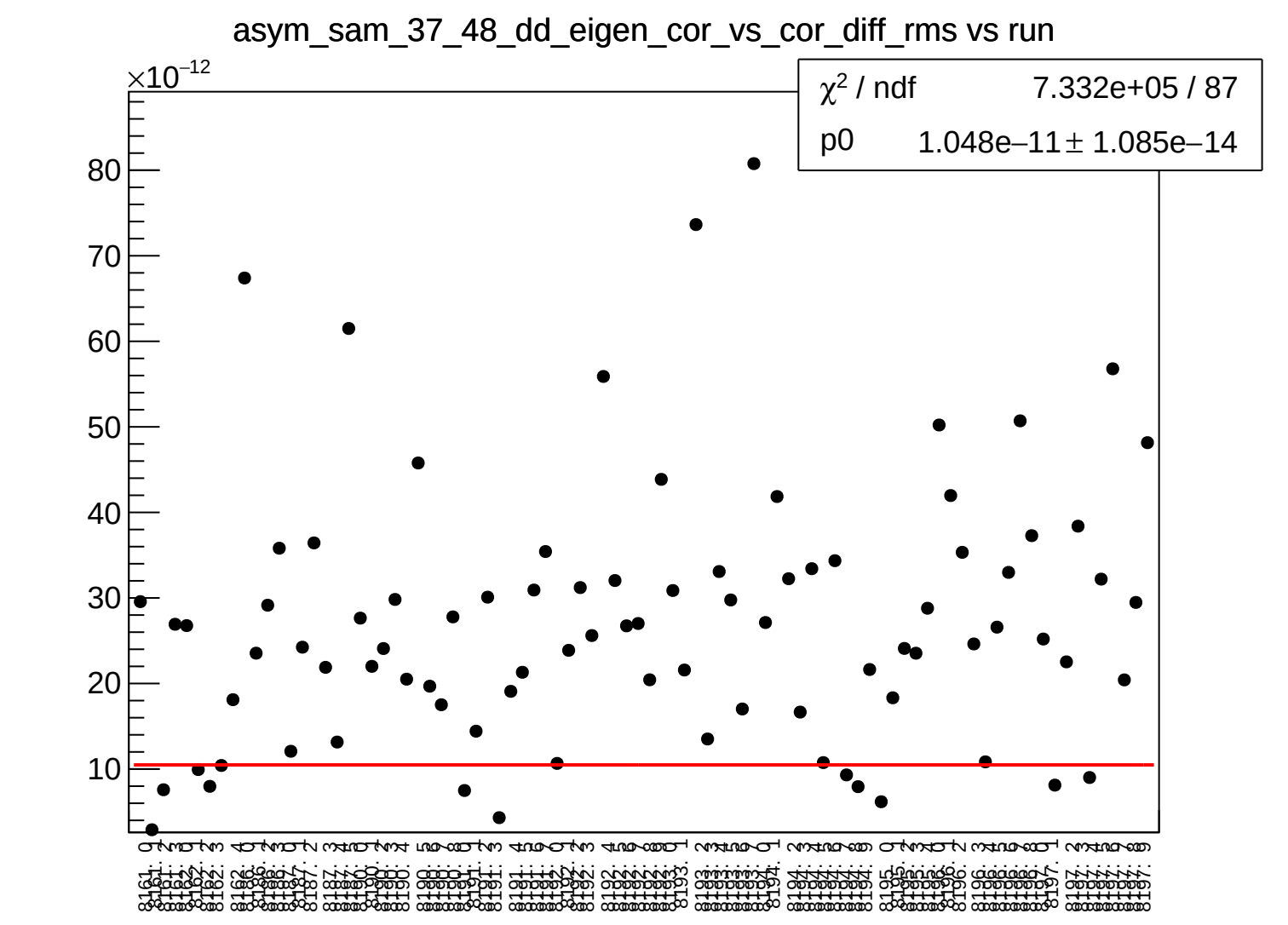

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.73e+04 / 87
p0 41.31 ± 0.03226
80
70
60
50
40
30

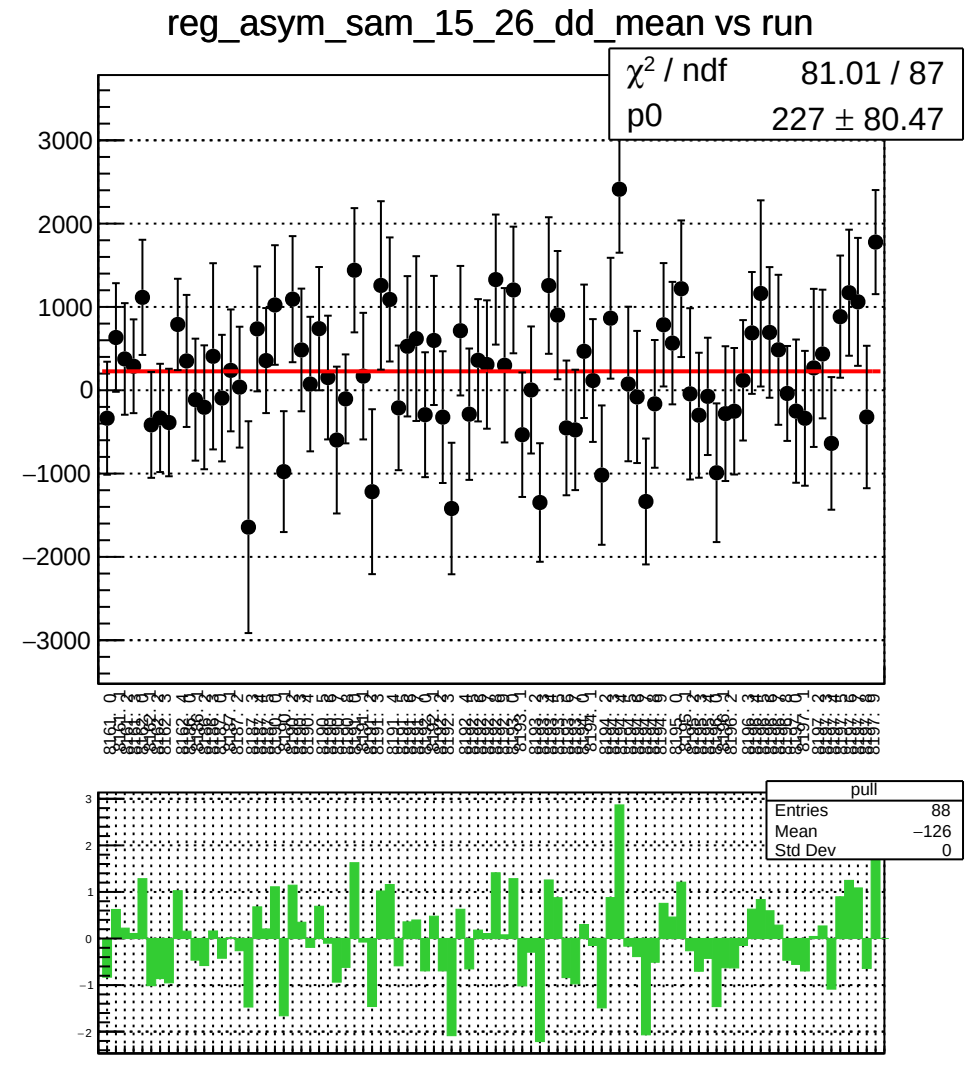

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.11 / 87
p0 0.251 ± 0.04563
pull
Entries 88
Mean −212.8
Std Dev 0
pull1D
Entries 88
Mean 0.03259
Std Dev 0.9536

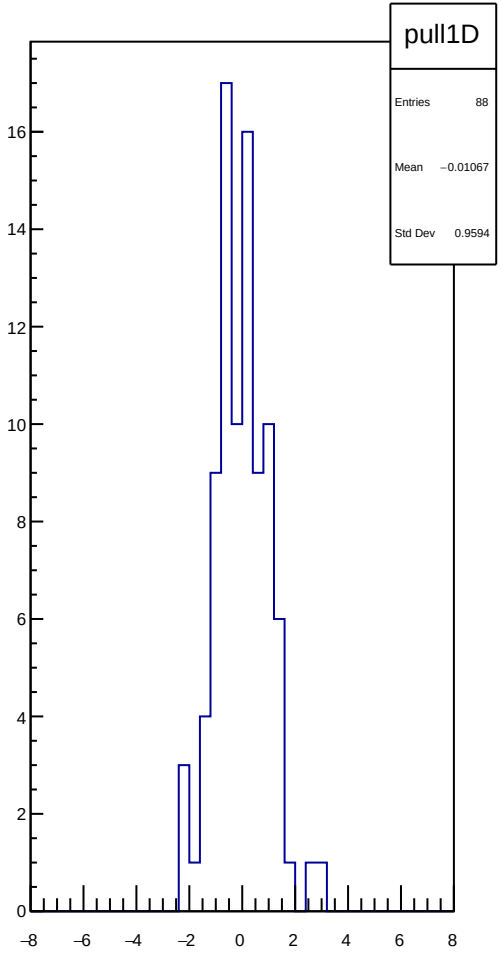

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.73e+04 / 87
p0 41.31 ± 0.03226
80
70
60
50
40
30

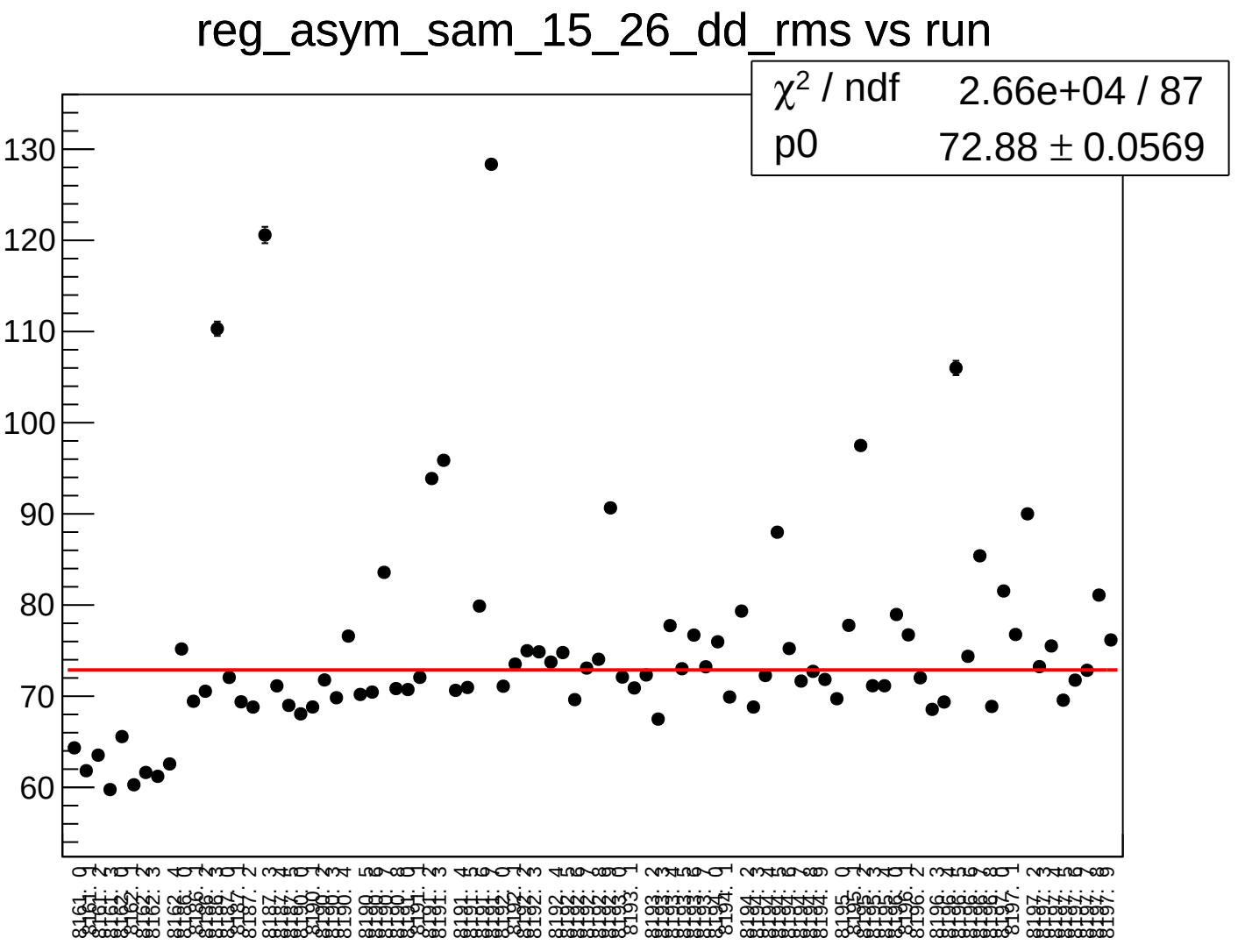

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.2 / 87
p0 2.737e−15 ± 1.534e−14
pull
Entries 88
Mean 68.65
Std Dev 25.61

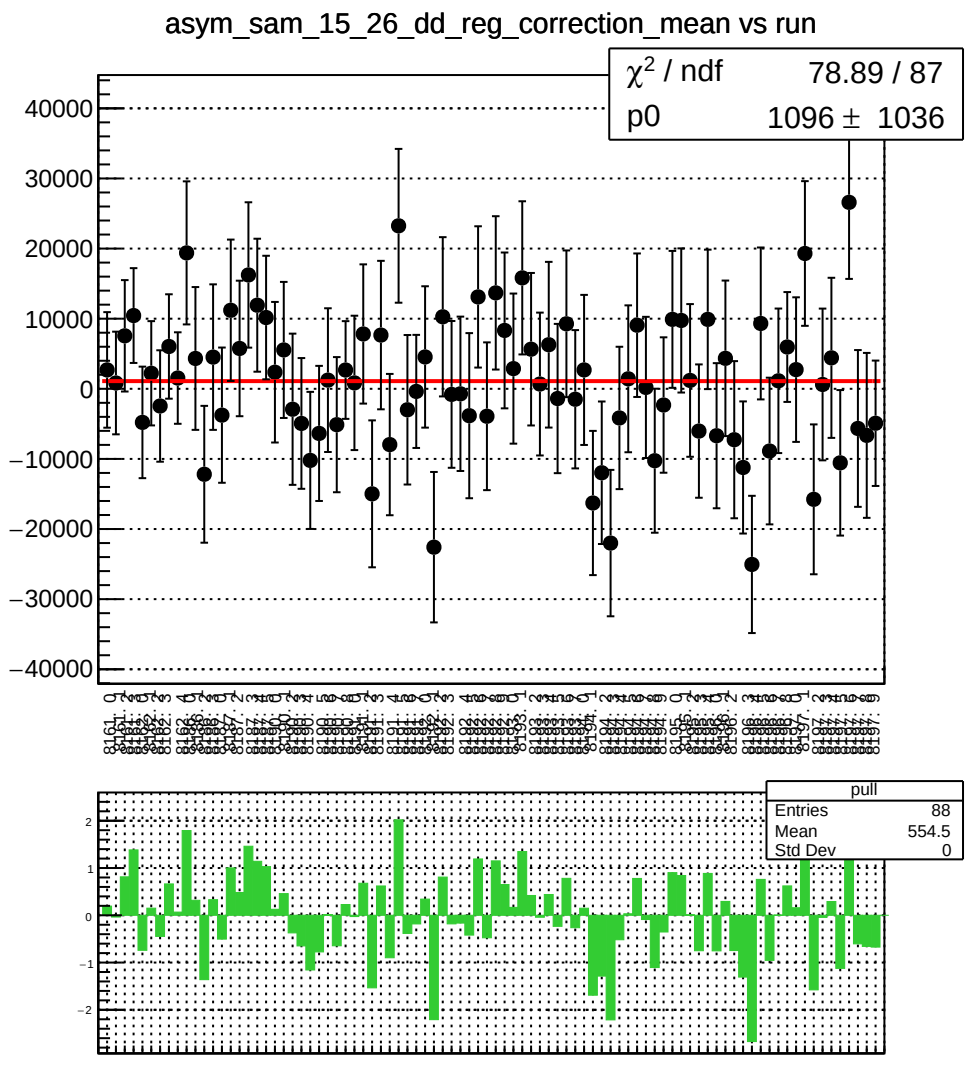

pull1D
Entries 88
Mean −0.07221
Std Dev 1.07

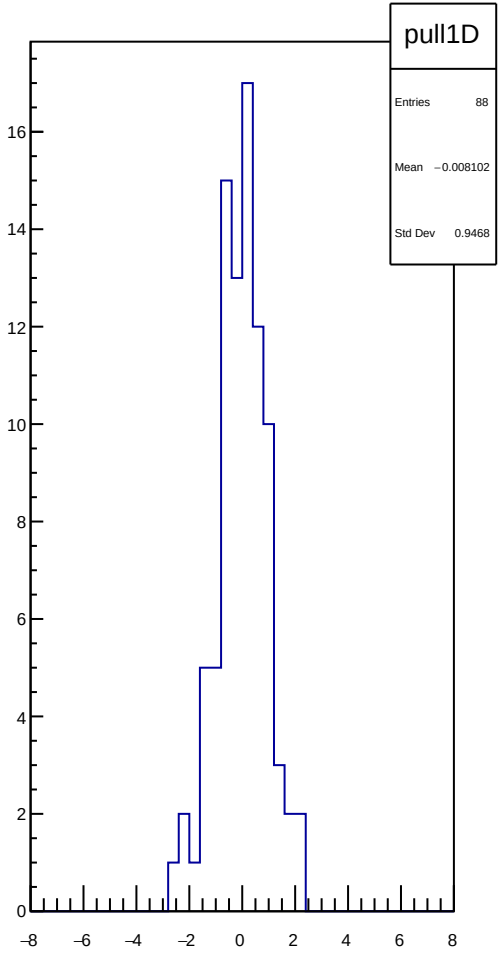

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.332e+05 / 87
p0 1.048e−11 ± 1.085e−14
80
70
60
50
40
30
20
10

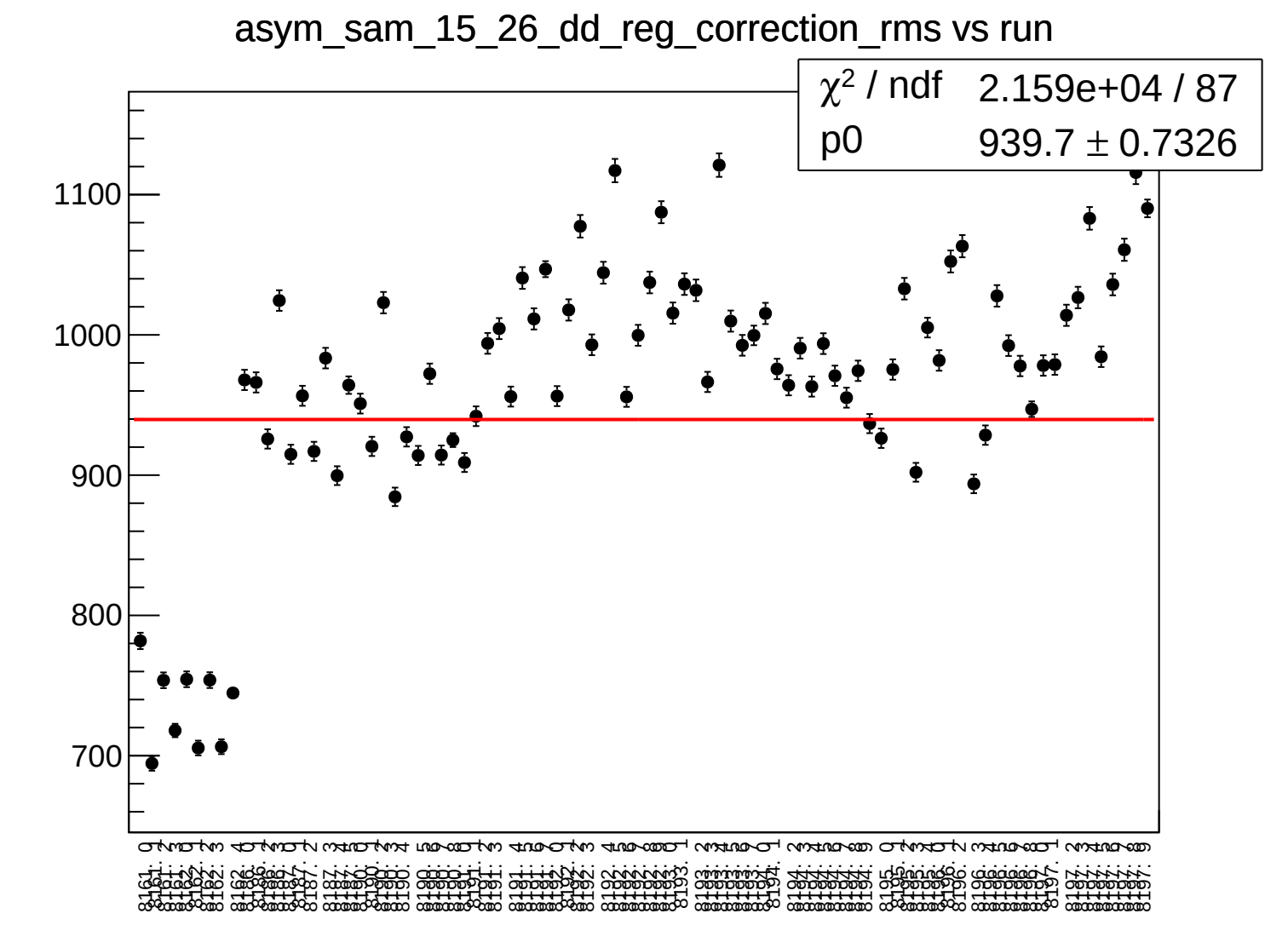

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.01 / 87
p0 227 ± 80.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −126
Std Dev 0
3
2
1
0
−1
−2

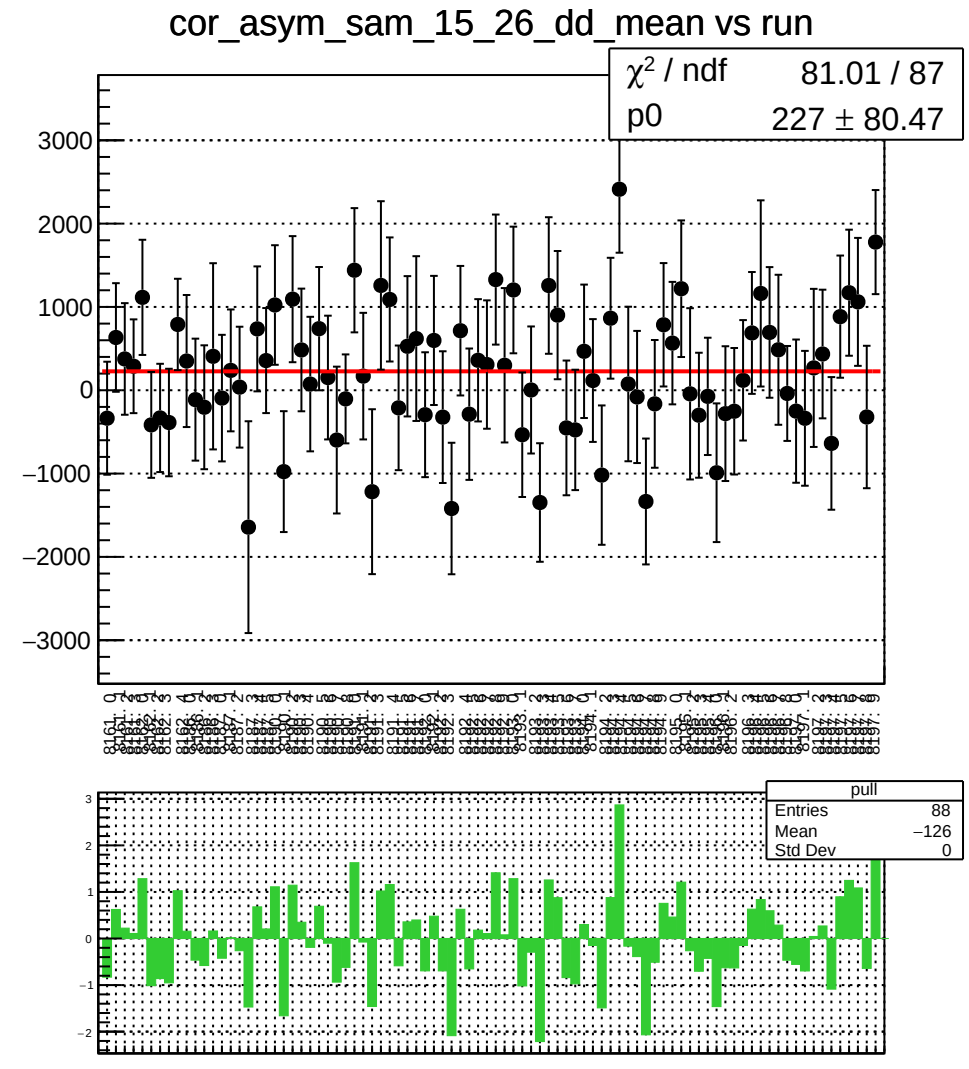

pull1D
Entries 88
Mean −0.01067
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

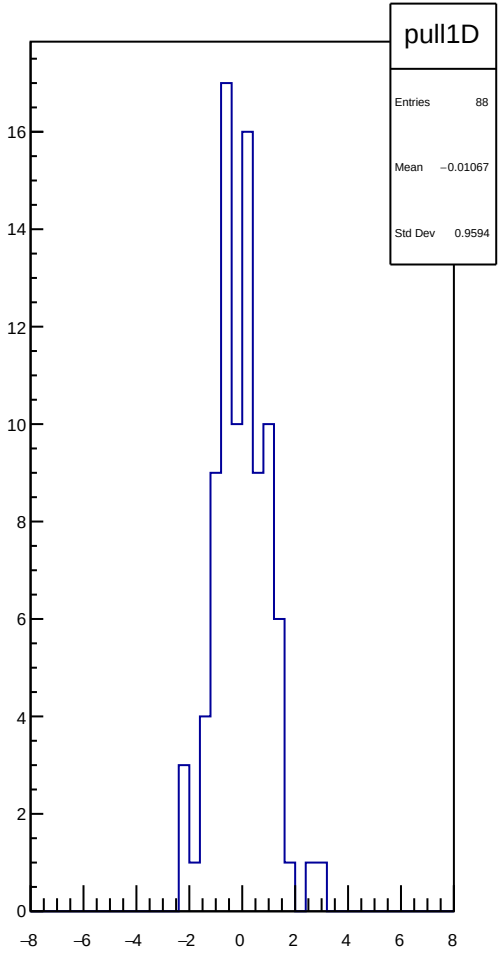

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.66e+04 / 87
p0 72.88 ± 0.0569
130
120
110
100
90
80
70
60

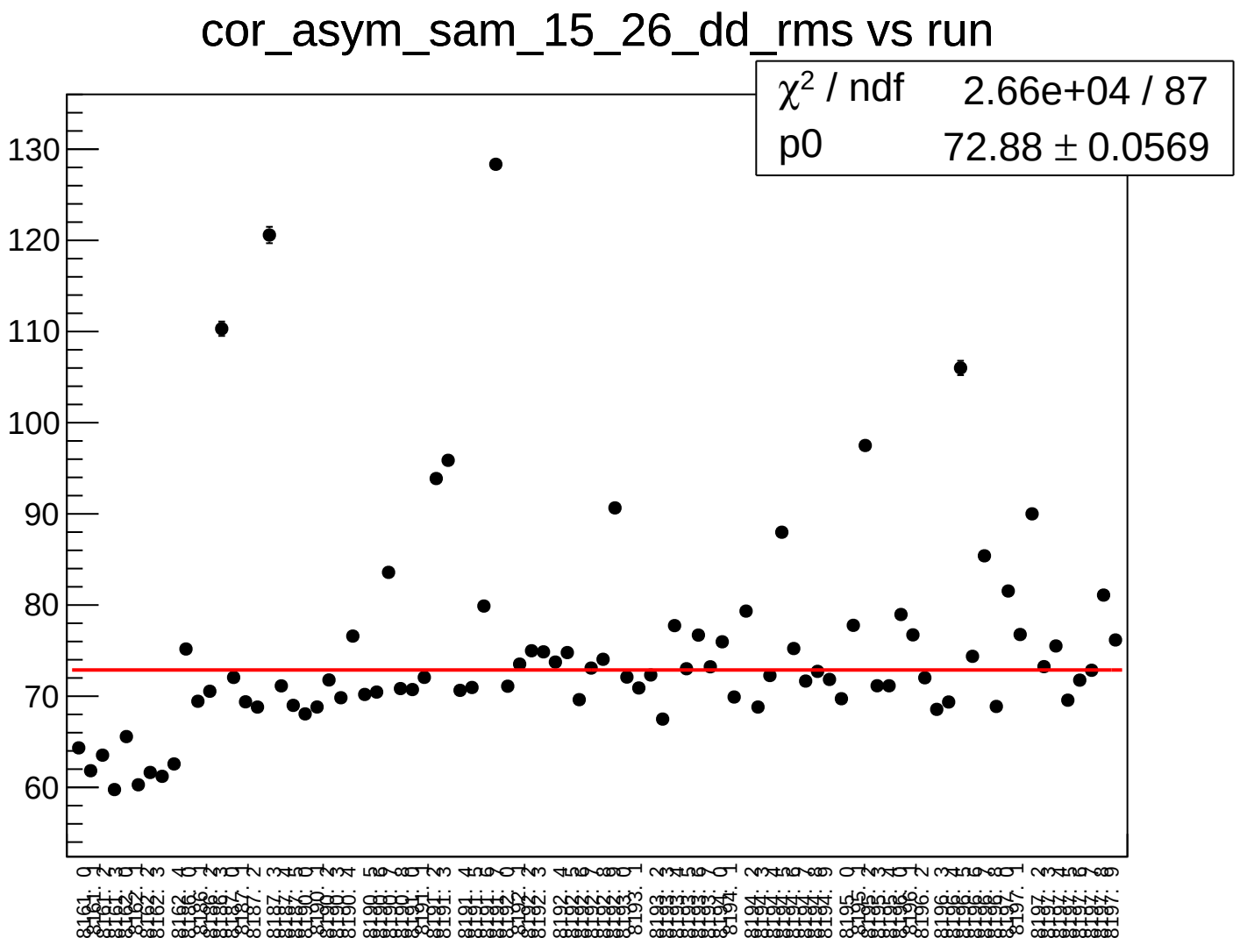

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 78.89 / 87
p0 1096 ± 1036
pull
Entries 88
Mean 554.5
Std Dev 0

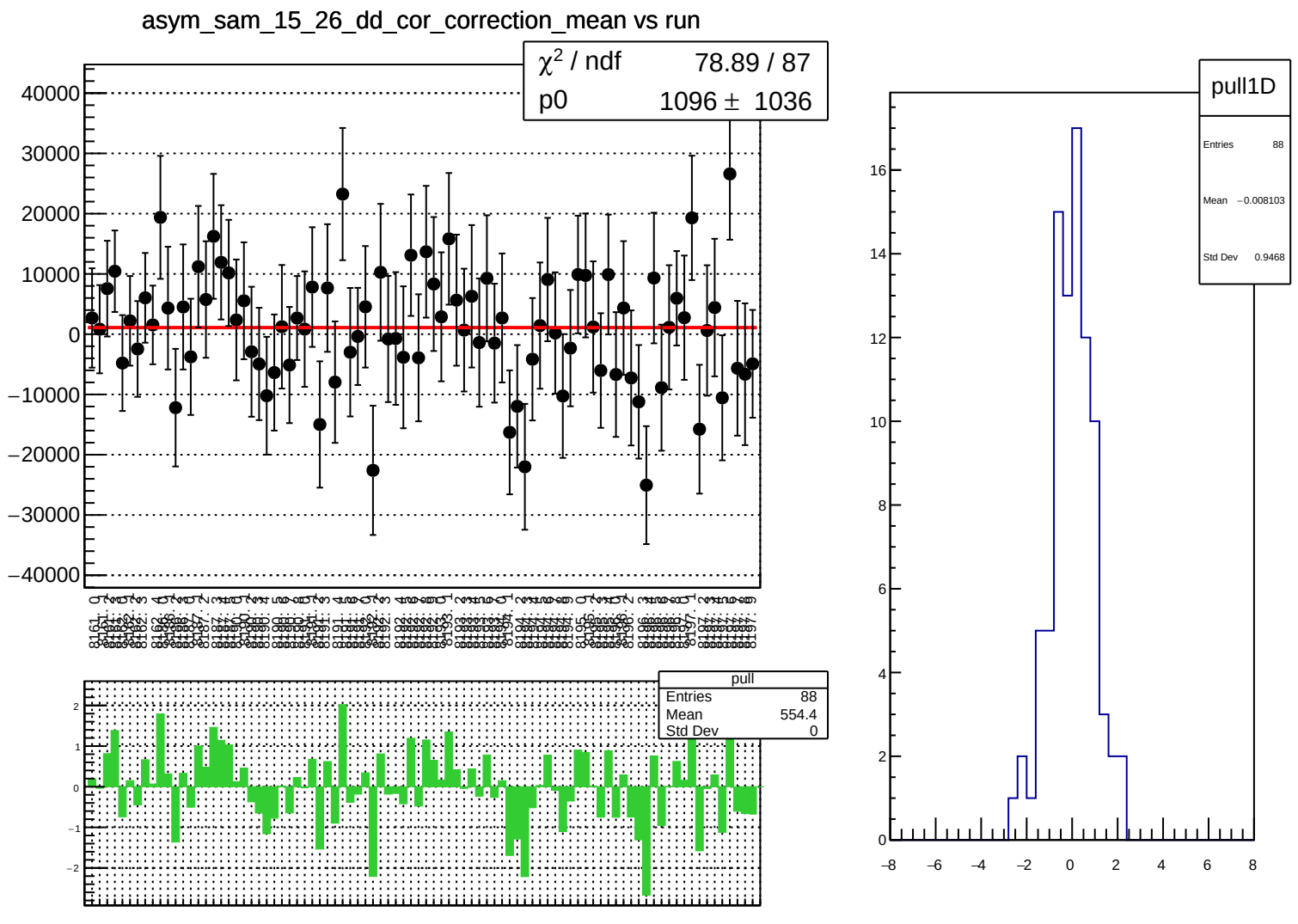

pull1D
Entries 88
Mean −0.008102
Std Dev 0.9468

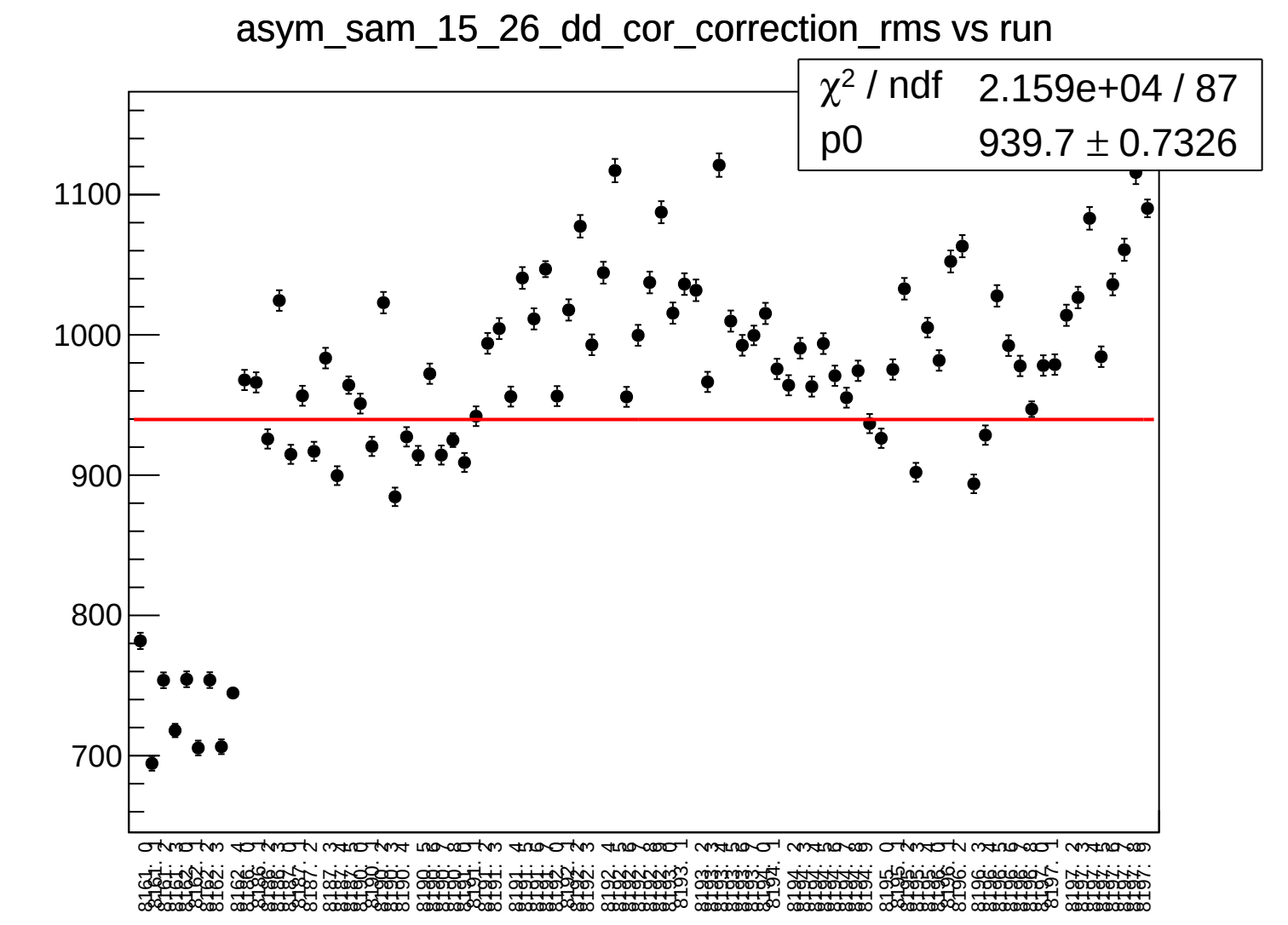

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 2.159e+04 / 87
p0 939.7 ± 0.7326
1100
1000
900
800
700

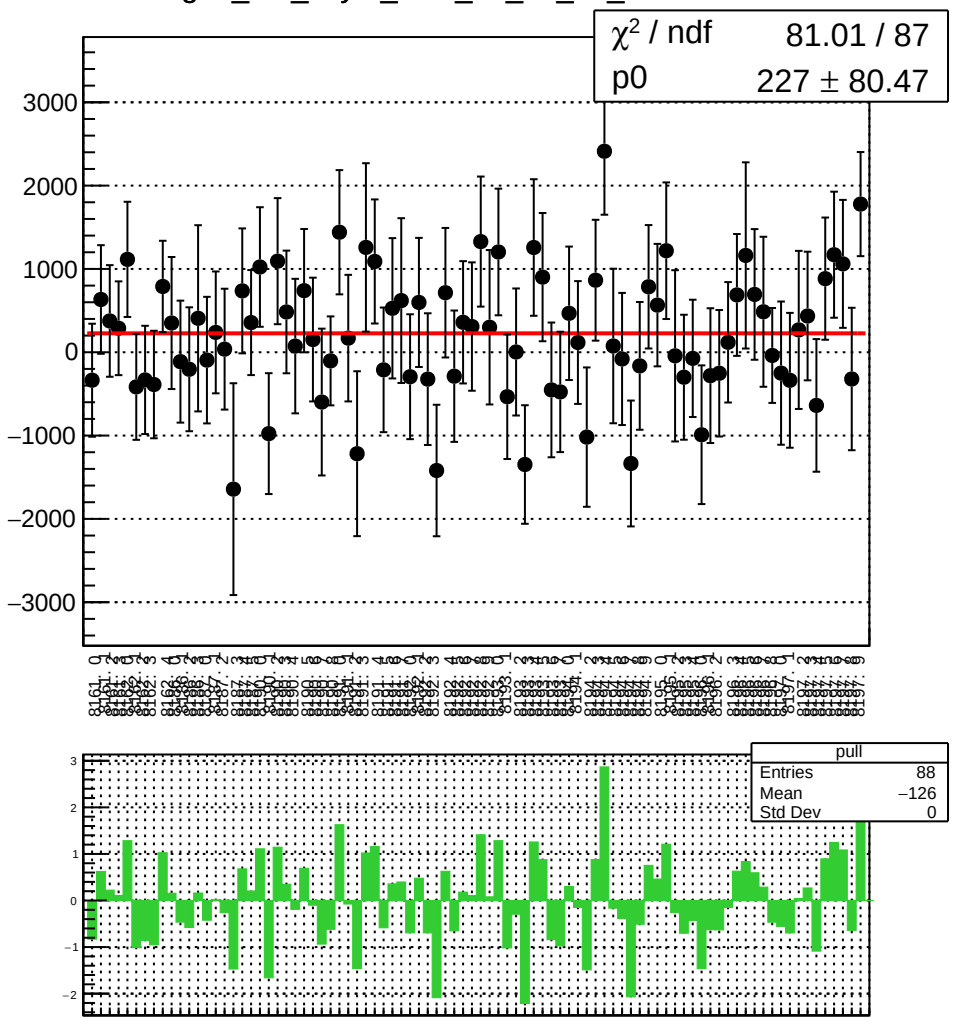

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.01 / 87
p0 227 ± 80.47
pull
Entries 88
Mean −126
Std Dev 0

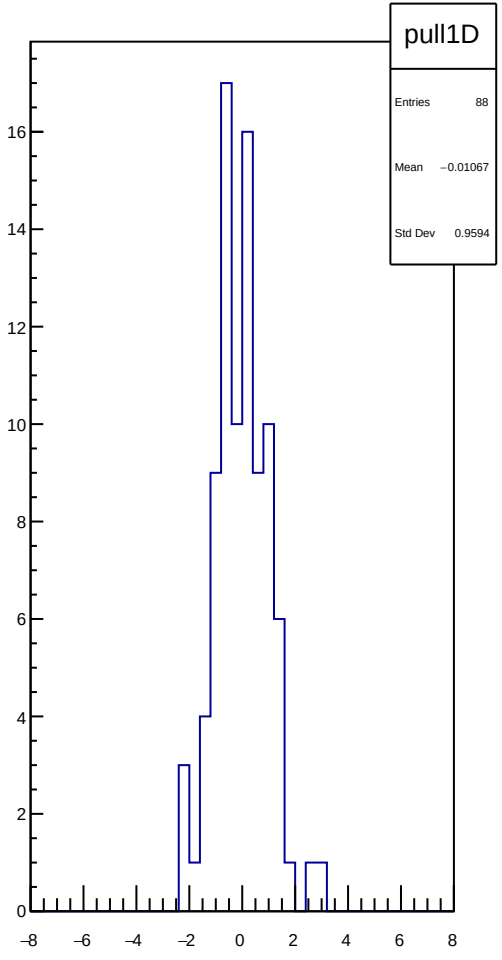

pull1D
Entries 88
Mean −0.01067
Std Dev 0.9594

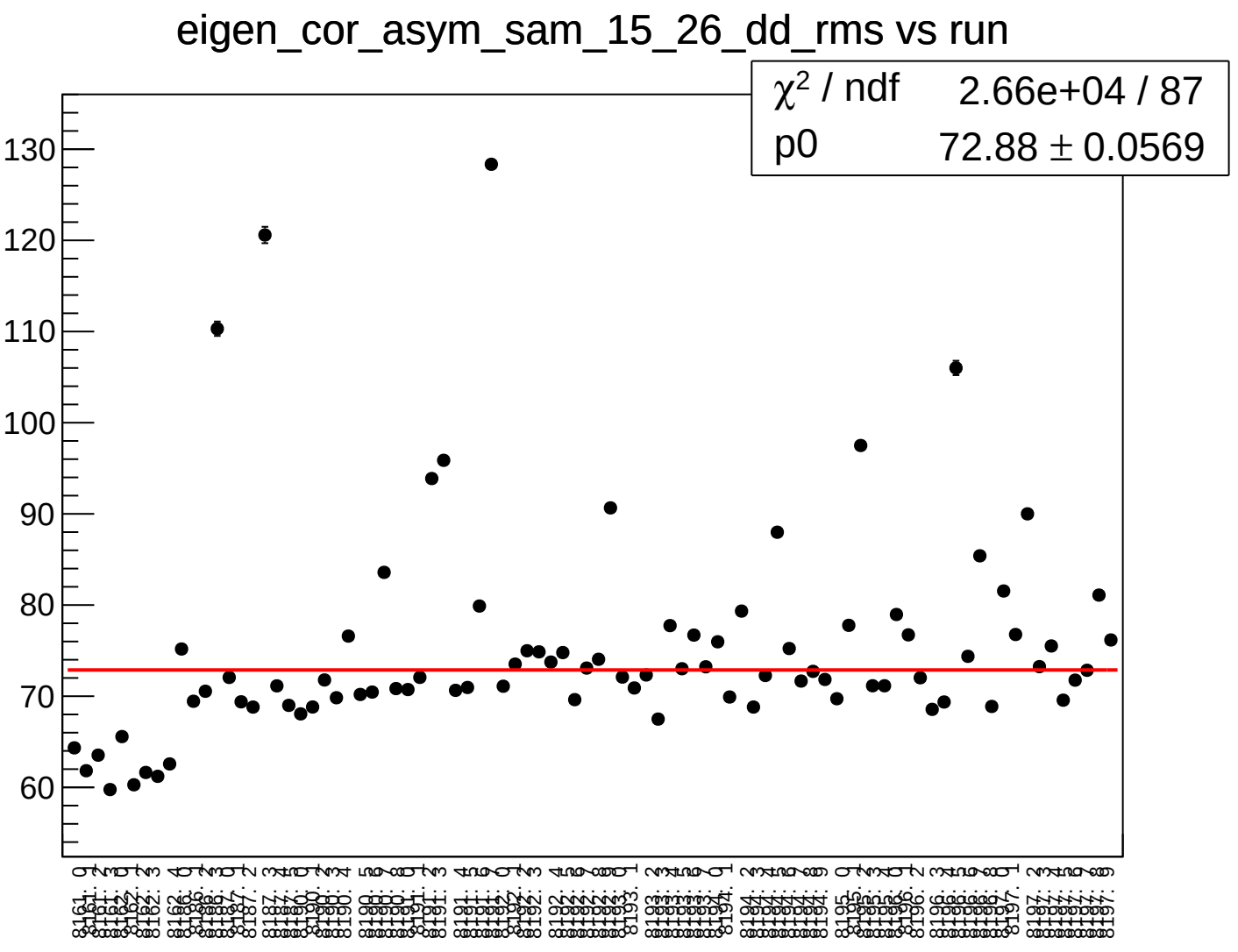

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.66e+04 / 87
p0 72.88 ± 0.0569
130
120
110
100
90
80
70
60

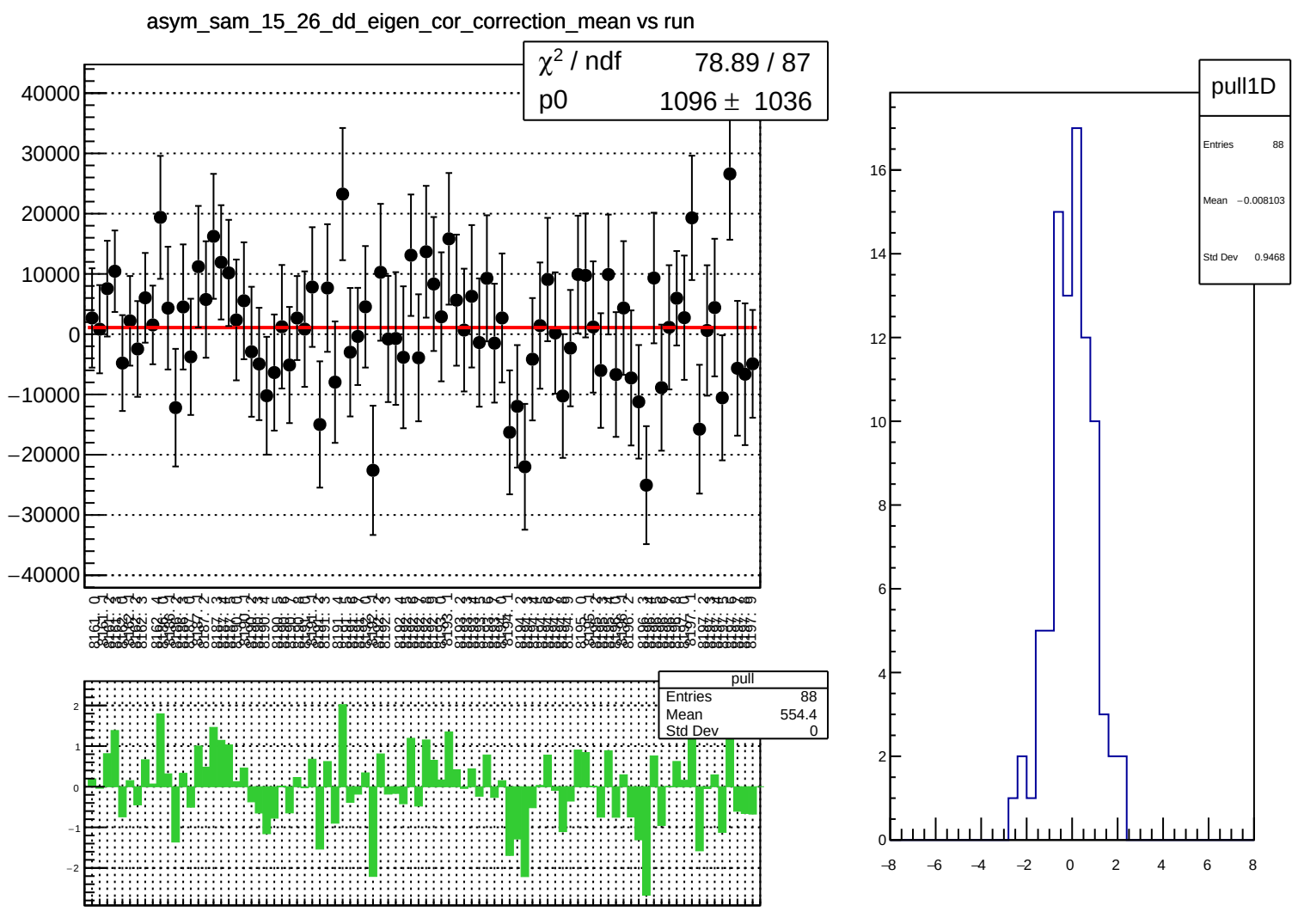

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 78.89 / 87
p0 1096 ± 1036
pull
Entries 88
Mean 554.4
Std Dev 0
pull1D
Entries 88
Mean −0.008103
Std Dev 0.9468

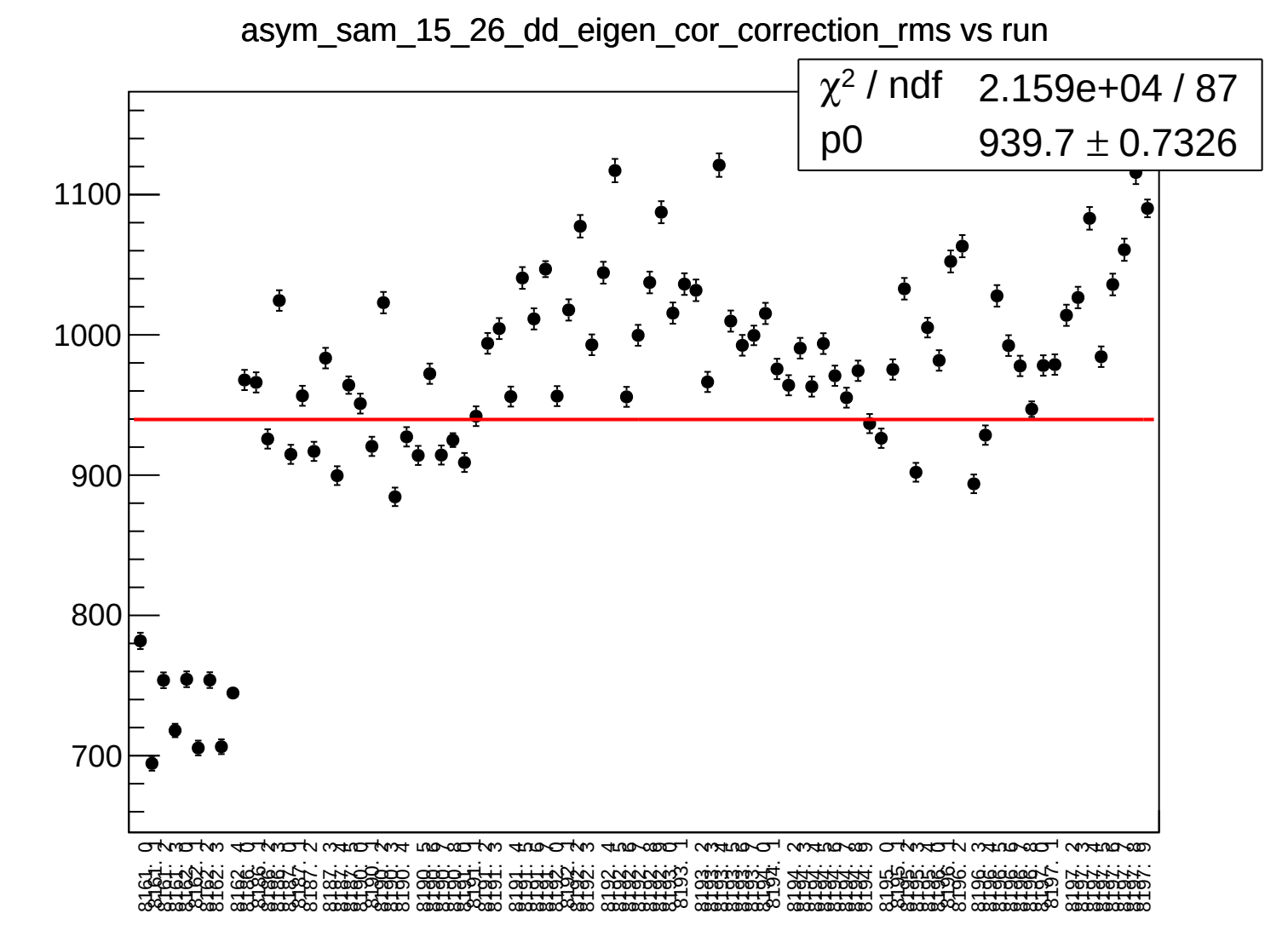

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 2.159e+04 / 87
p0 939.7 ± 0.7326
1100
1000
900
800
700

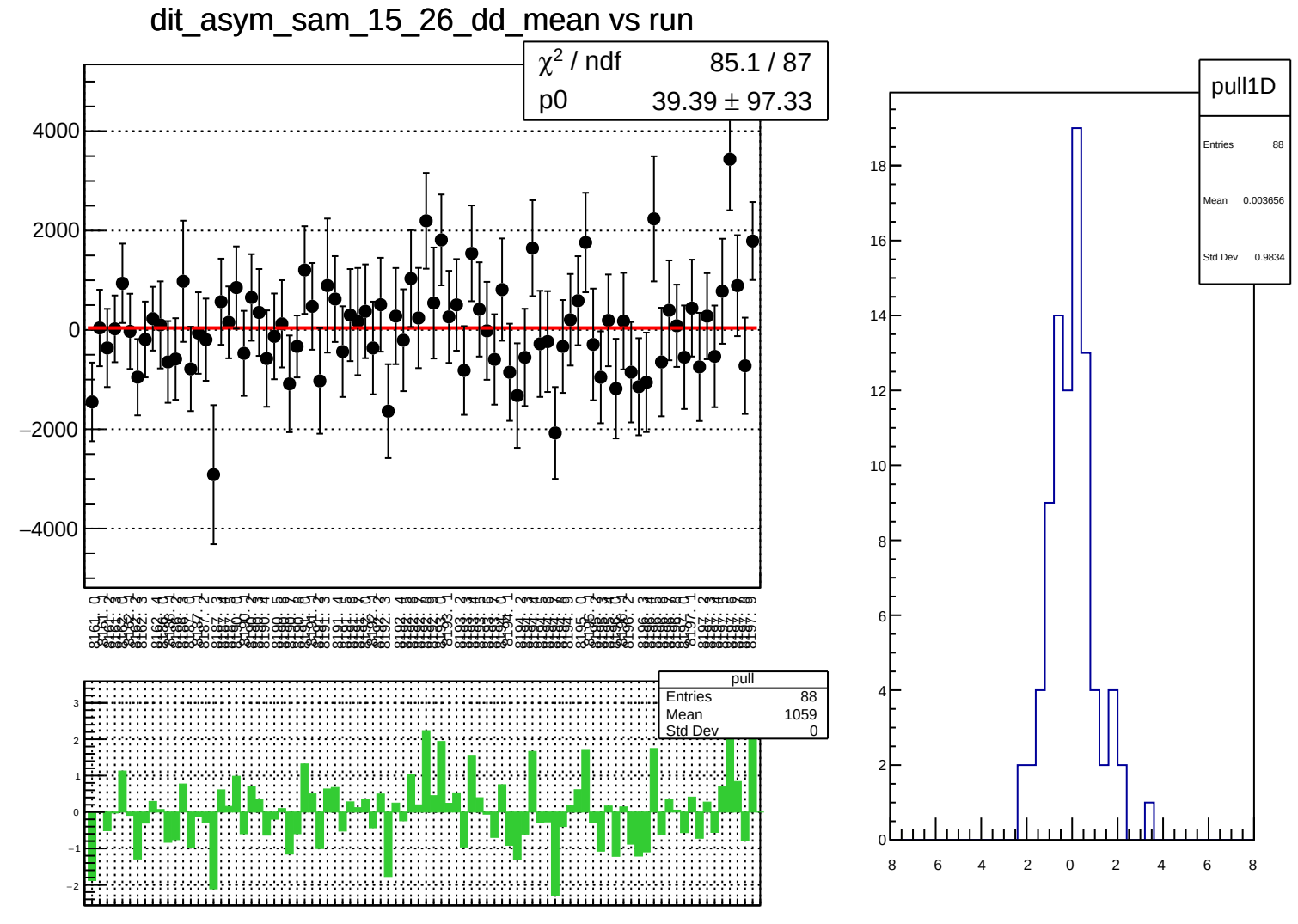

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.01 / 87
p0 227 ± 80.47
pull
Entries 88
Mean −126
Std Dev 0

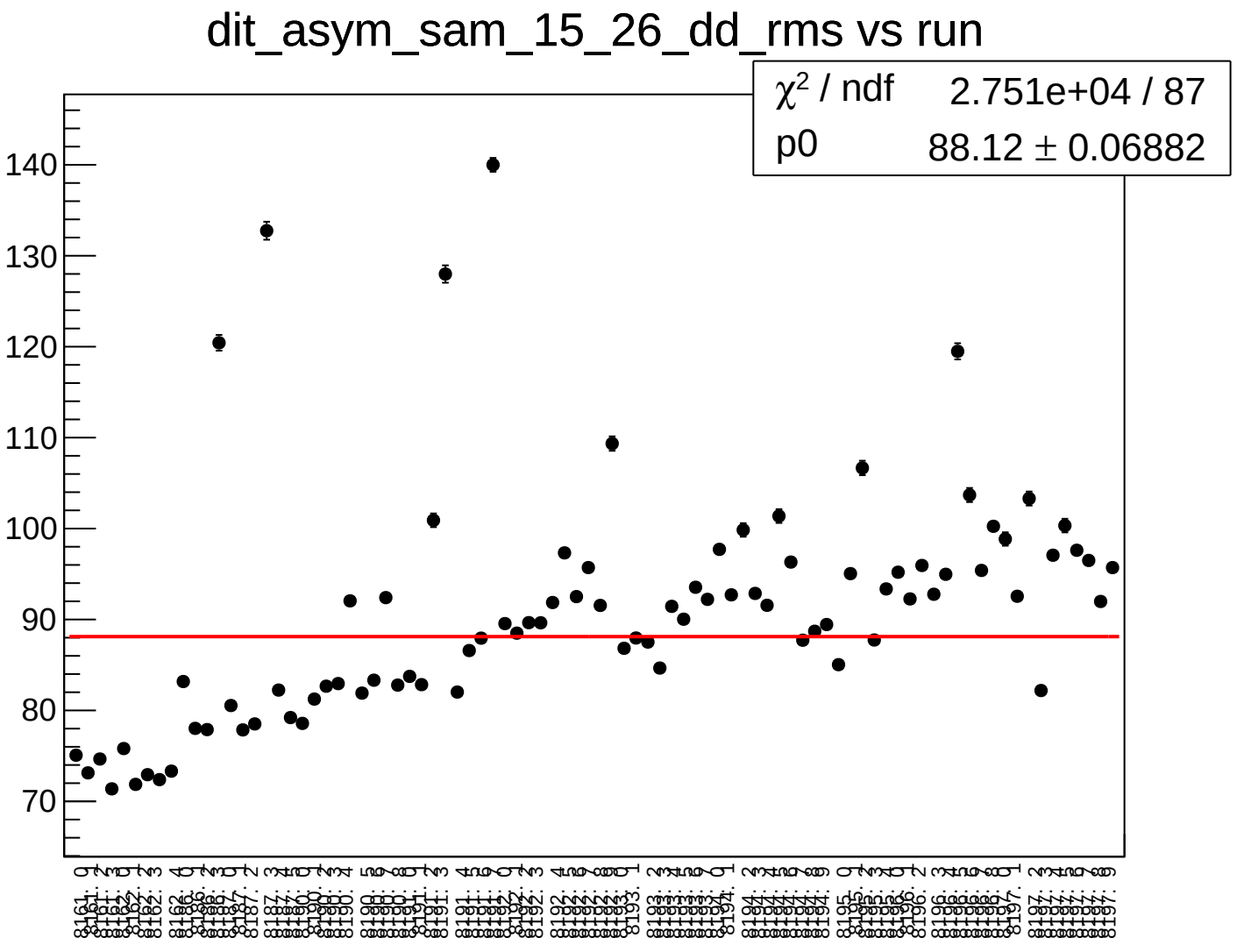

pull1D
Entries 88
Mean −0.01067
Std Dev 0.9594

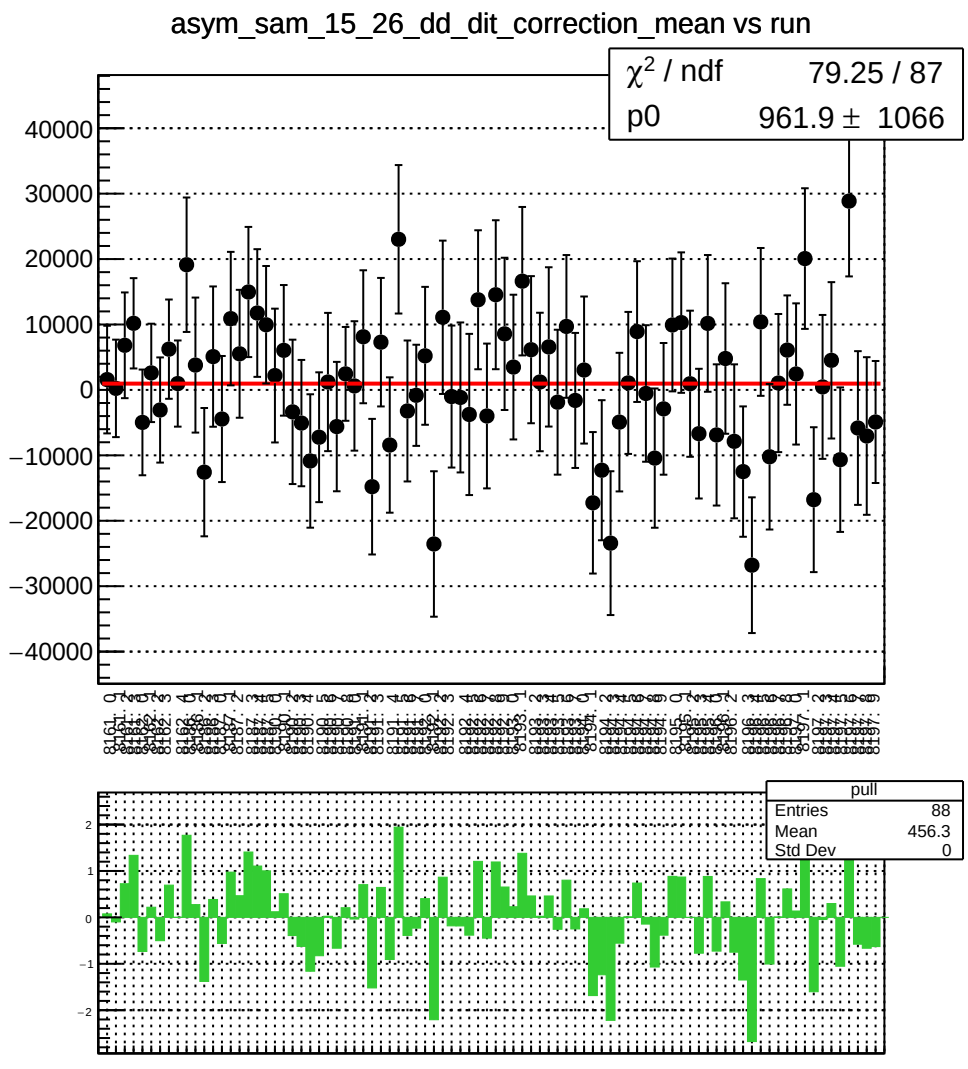

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.66e+04 / 87
p0 72.88 ± 0.0569
130
120
110
100
90
80
70
60

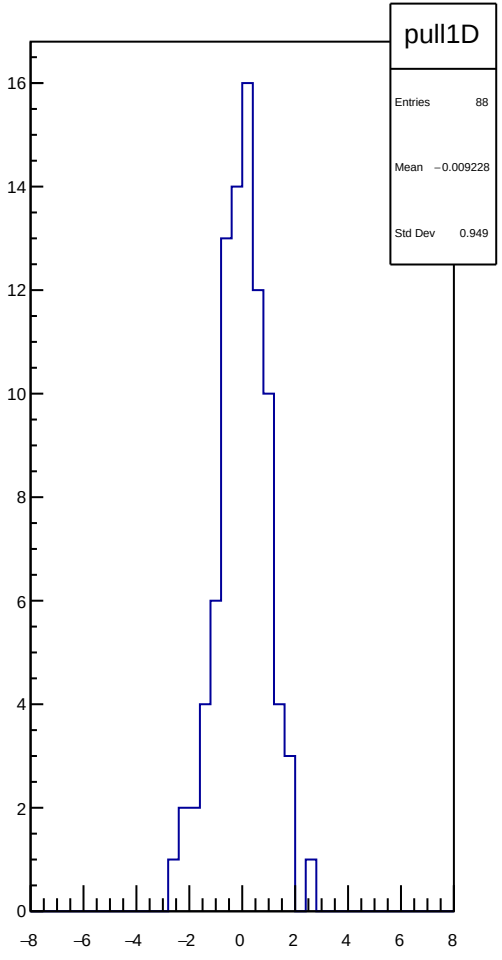

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.89 / 87
p0 1096 ± 1036
pull
Entries 88
Mean 554.4
Std Dev 0
pull1D
Entries 88
Mean −0.008103
Std Dev 0.9468

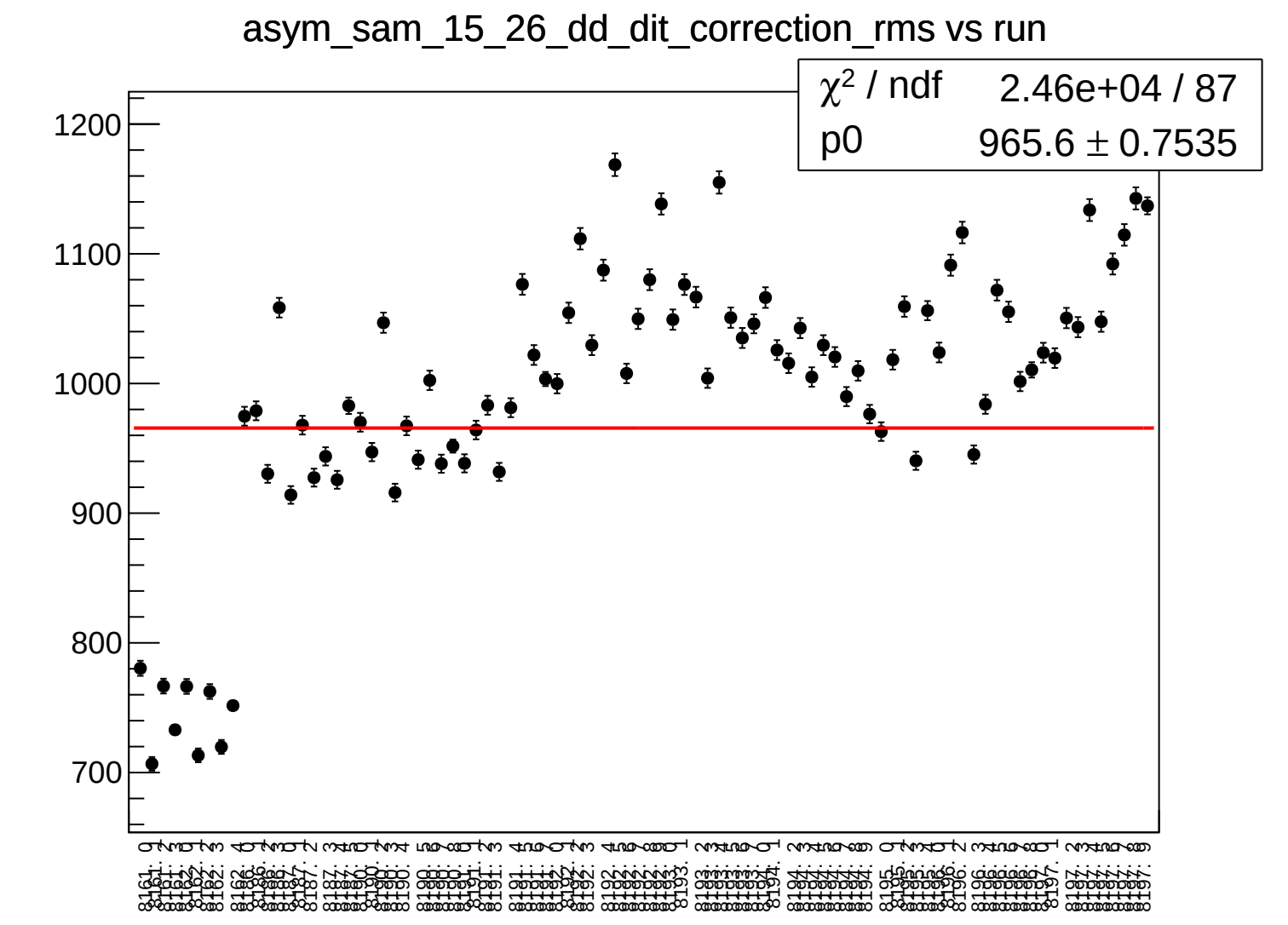

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.159e+04 / 87
p0 939.7 ± 0.7326
1100
1000
900
800
700

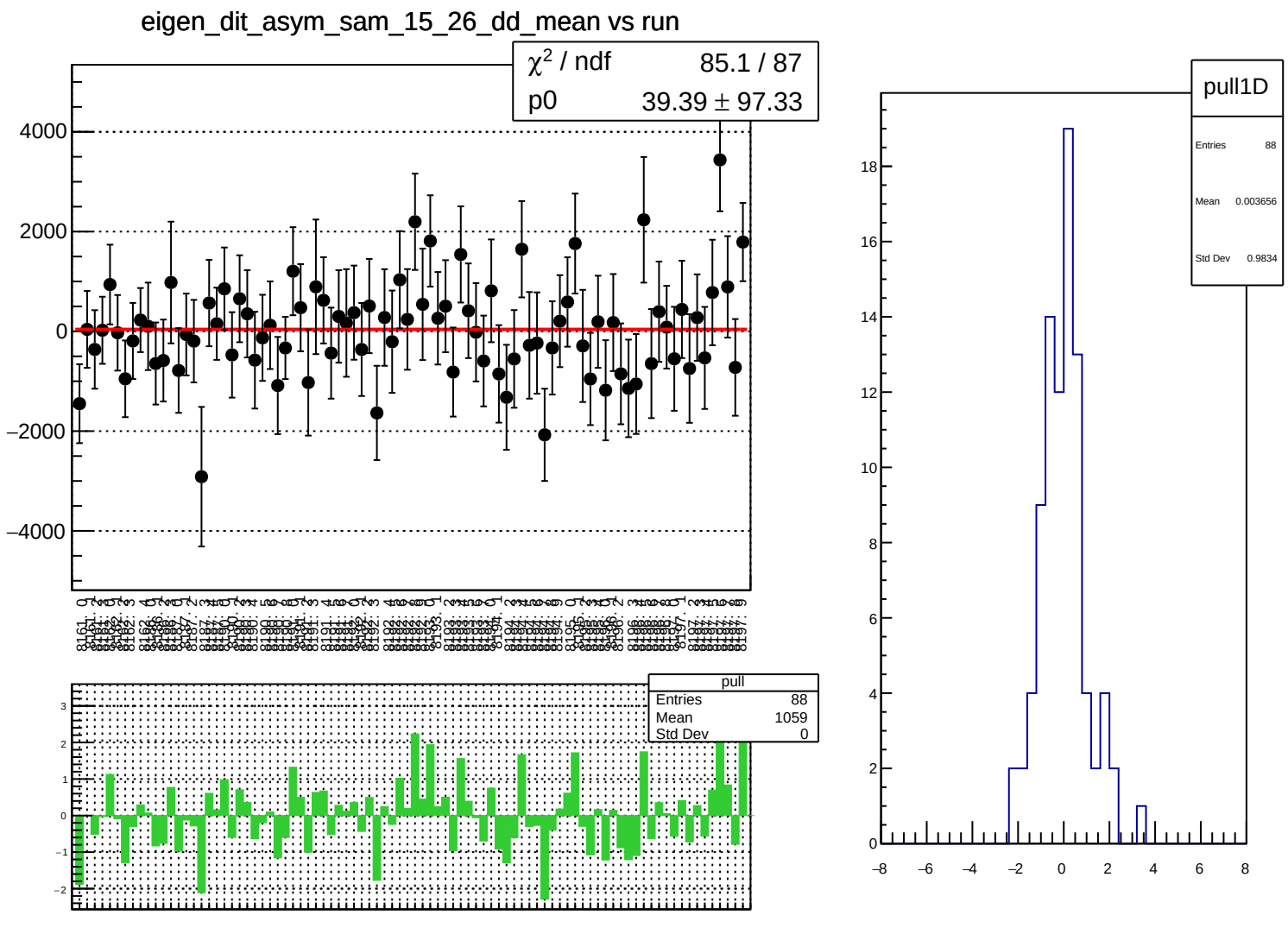

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 85.1 / 87
p0 39.39 ± 97.33
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 1059
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.003656
Std Dev 0.9834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

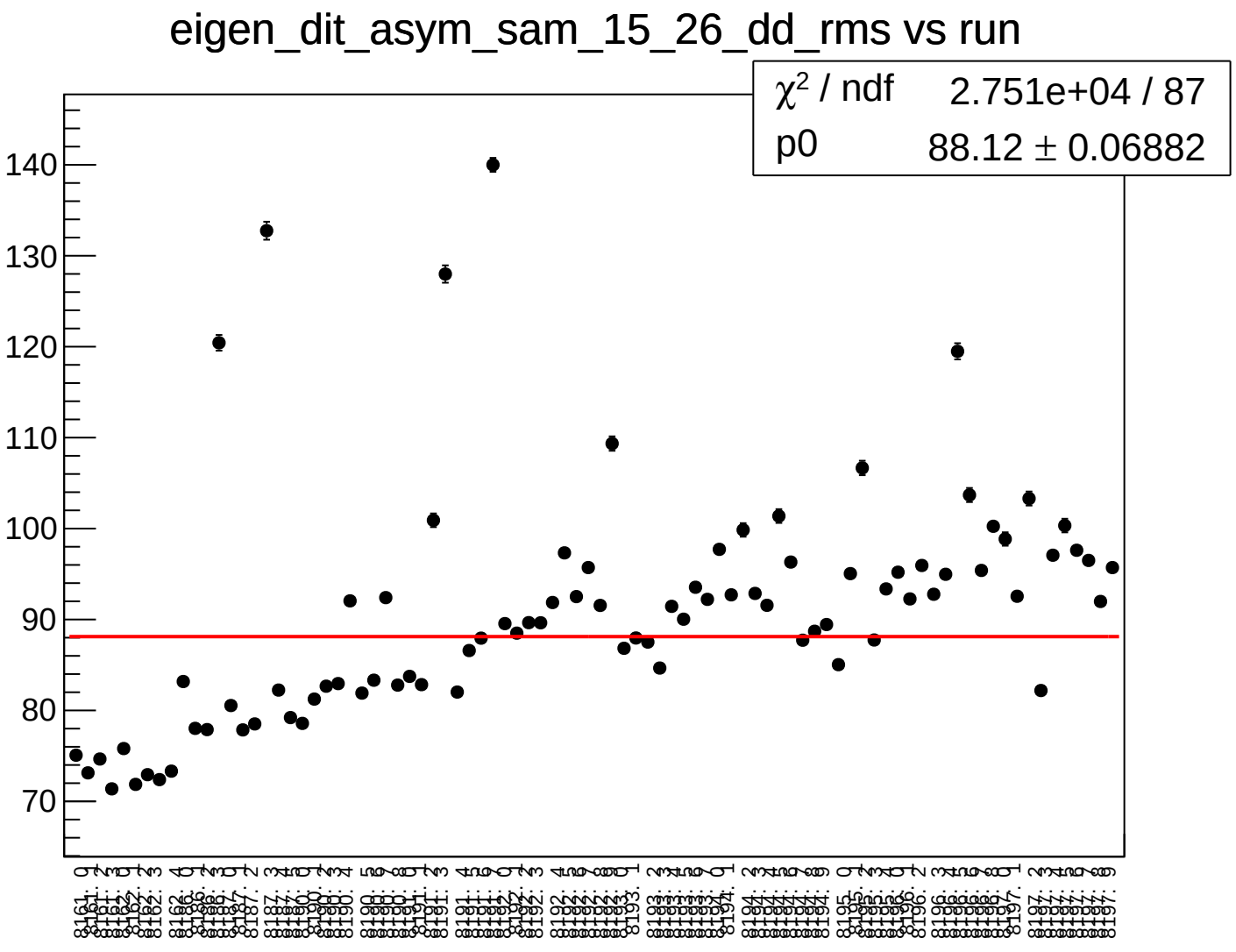

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.751e+04 / 87
p0 88.12 ± 0.06882
140
130
120
110
100
90
80
70

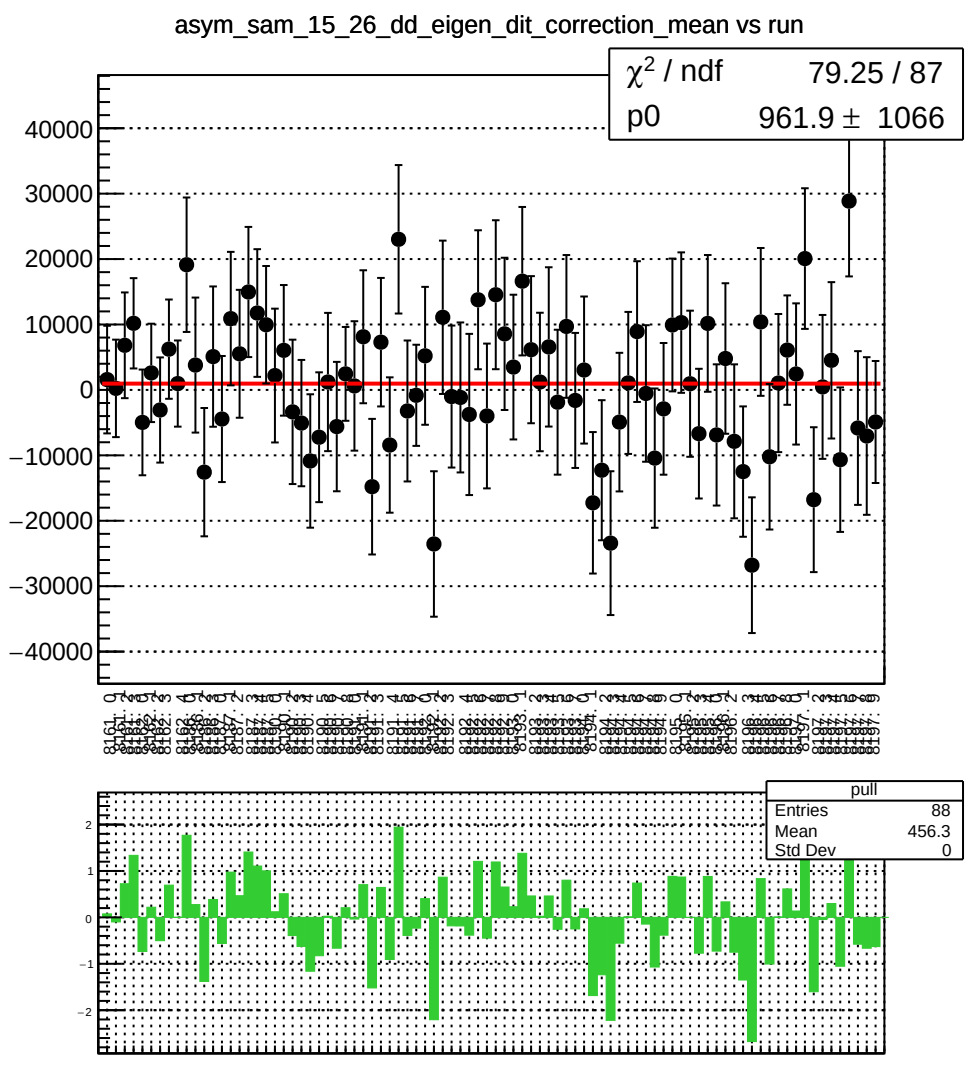

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 79.25 / 87
p0 961.9 ± 1066
pull
Entries 88
Mean 456.3
Std Dev 0

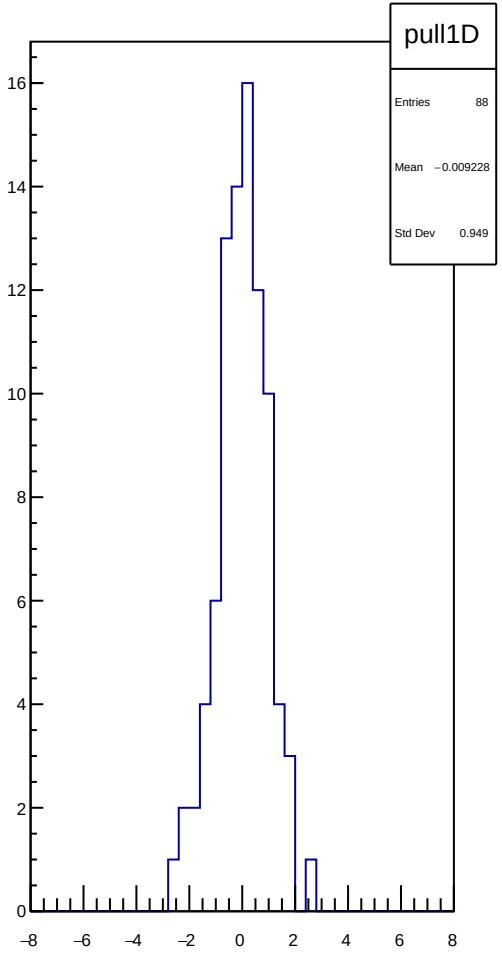

pull1D
Entries 88
Mean −0.009228
Std Dev 0.949

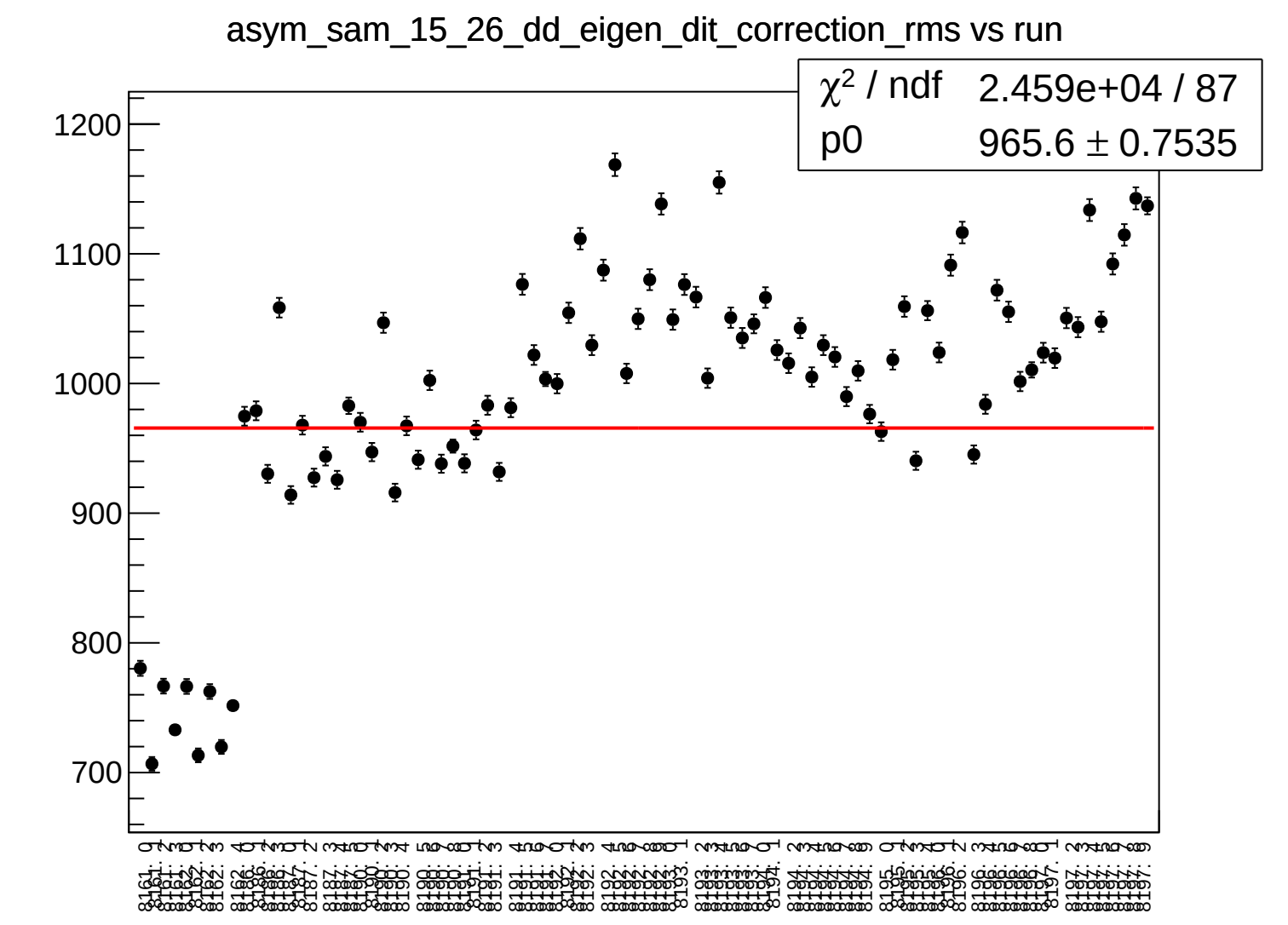

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 2.46e+04 / 87
p0 965.6 ± 0.7535
1200
1100
1000
900
800
700

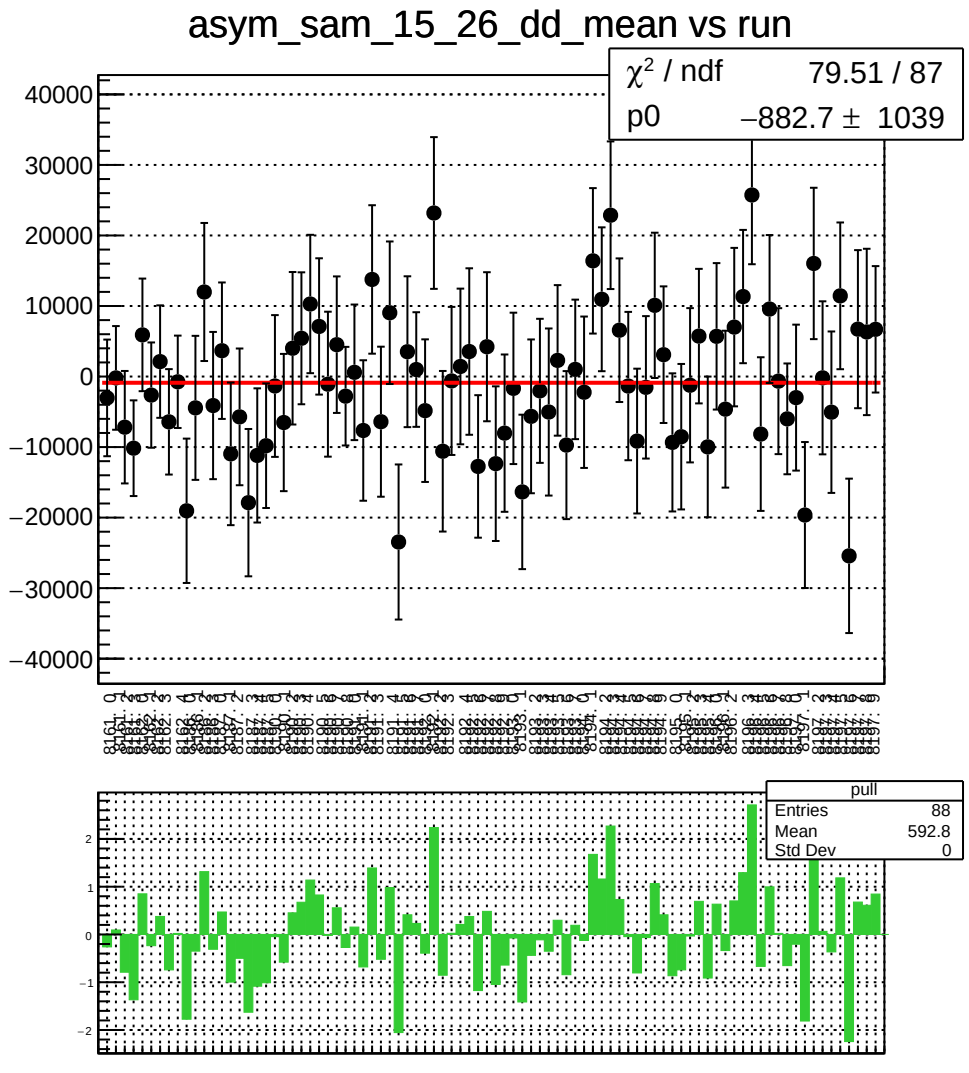

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 85.1 / 87
p0 39.39 ± 97.33
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 1059
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.003656
Std Dev 0.9834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

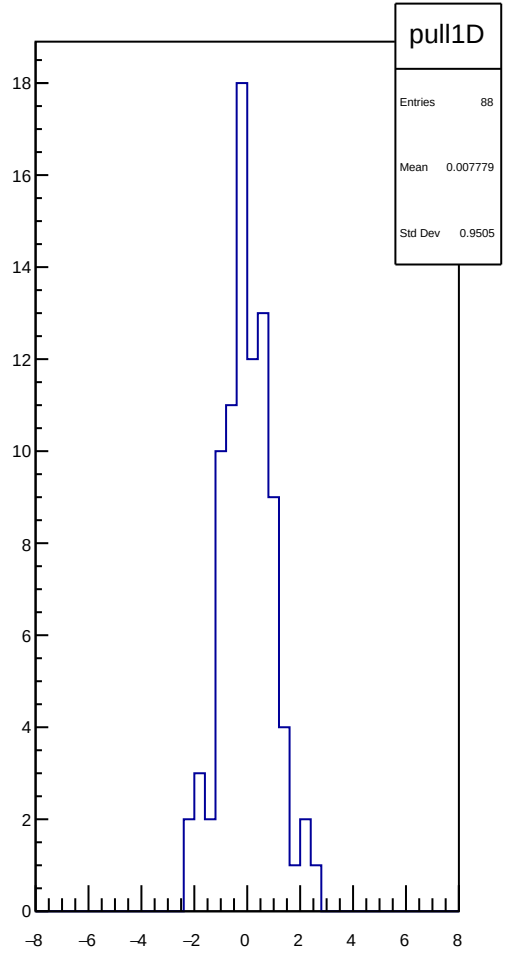

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.751e+04 / 87
p0 88.12 ± 0.06882
140
130
120
110
100
90
80
70

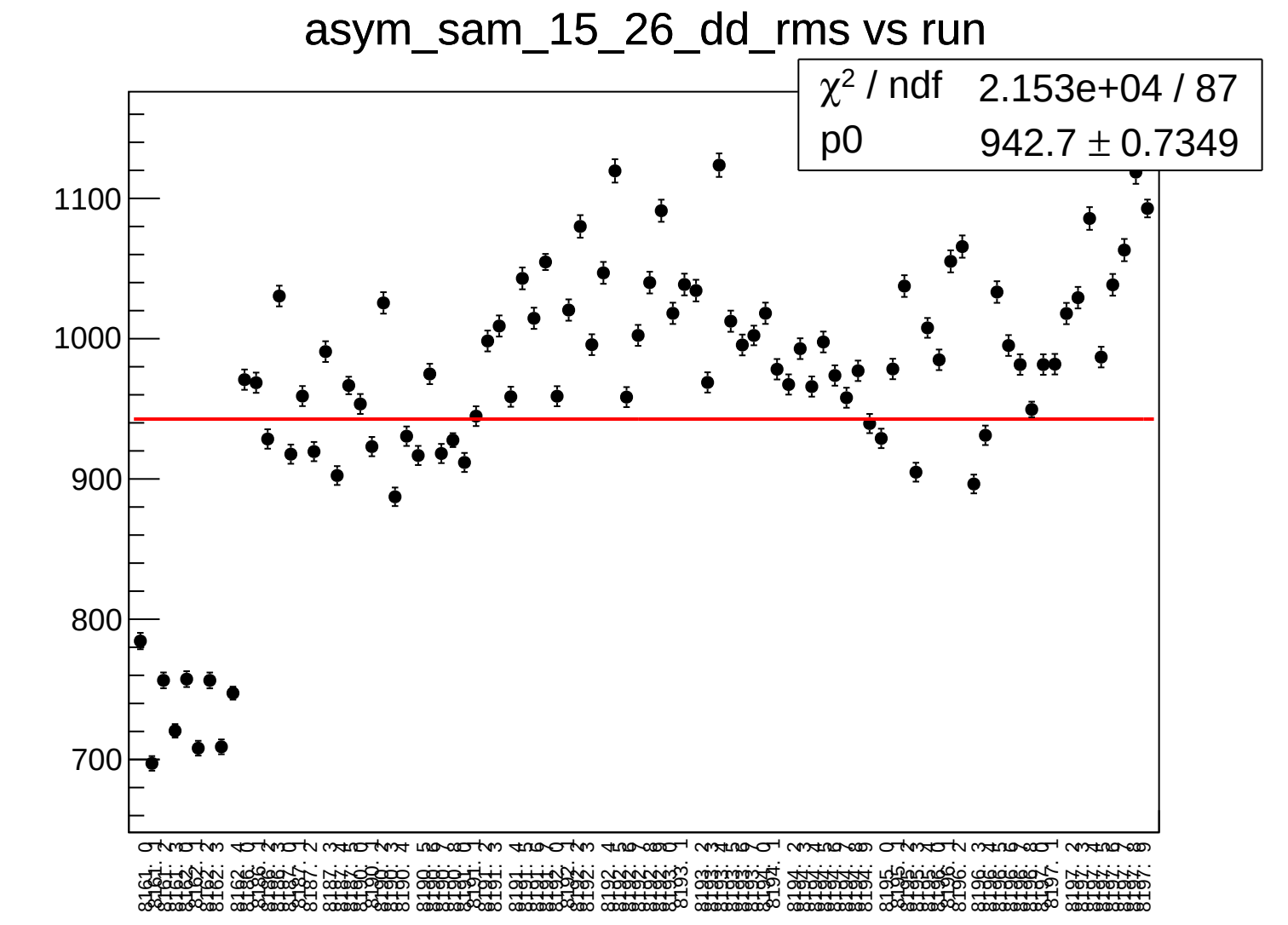

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.25 / 87
p0 961.9 ± 1066
pull
Entries 88
Mean 456.3
Std Dev 0

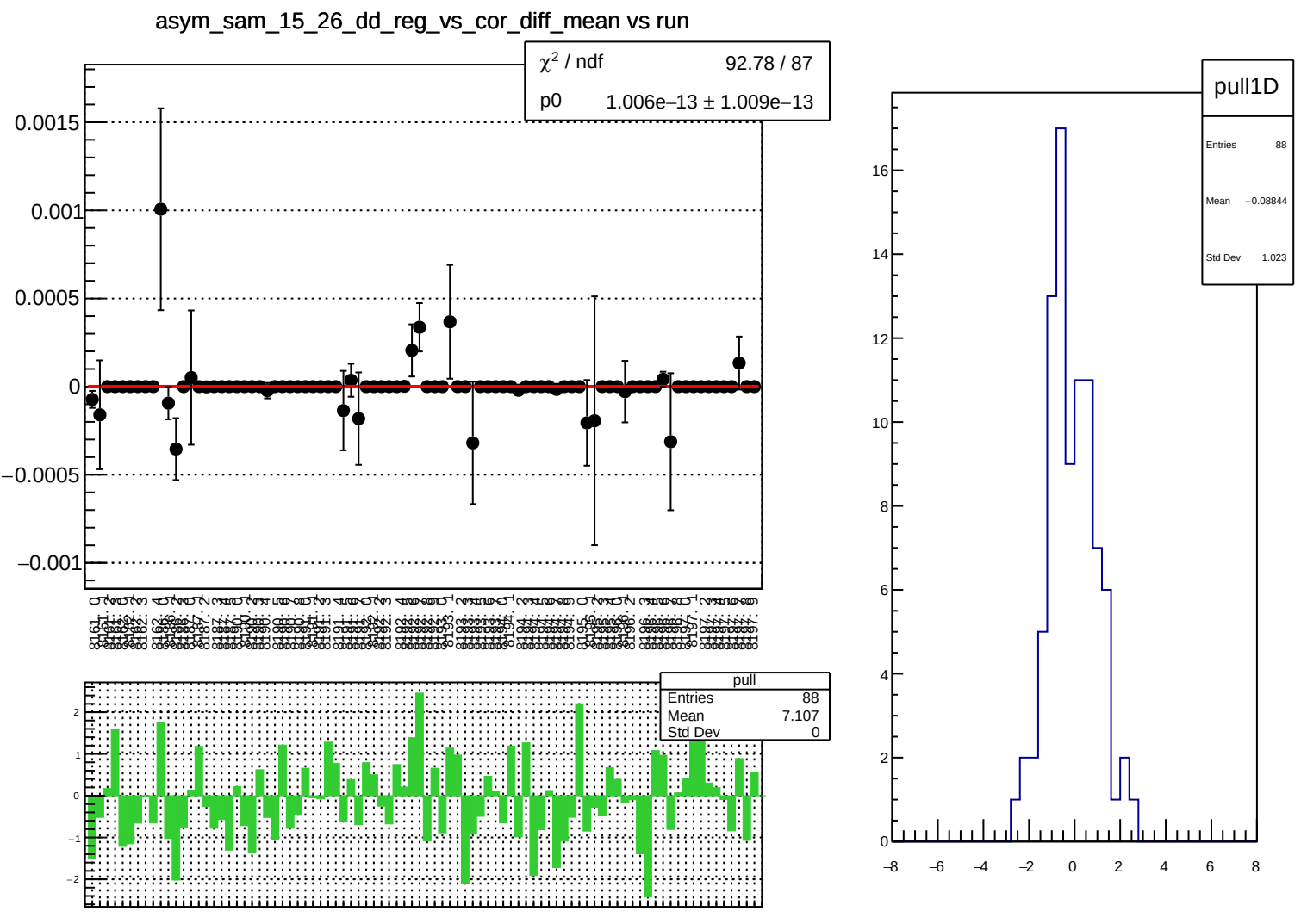

pull1D
Entries 88
Mean −0.009228
Std Dev 0.949

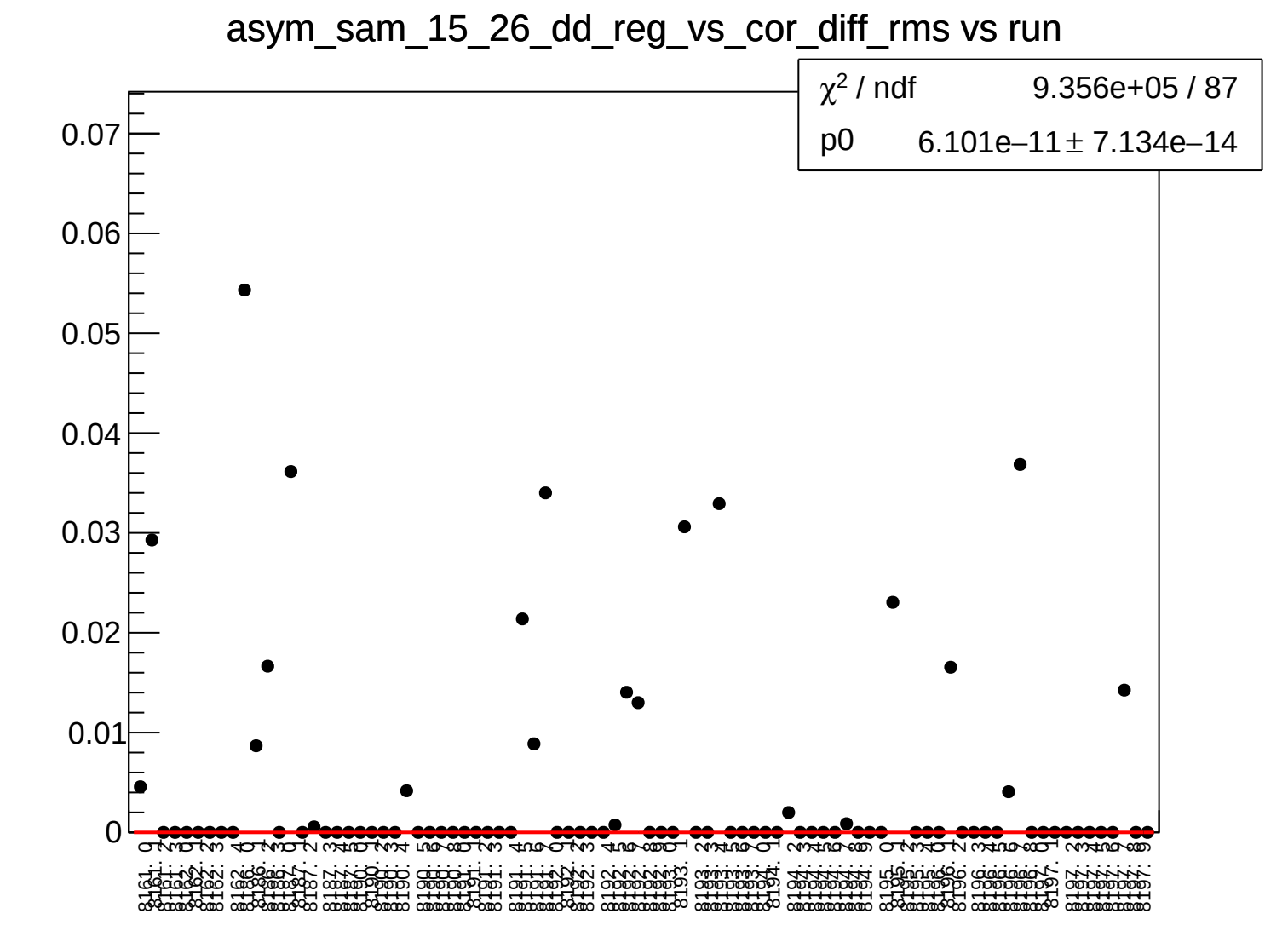

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.459e+04 / 87
p0 965.6 ± 0.7535
1200
1100
1000
900
800
700

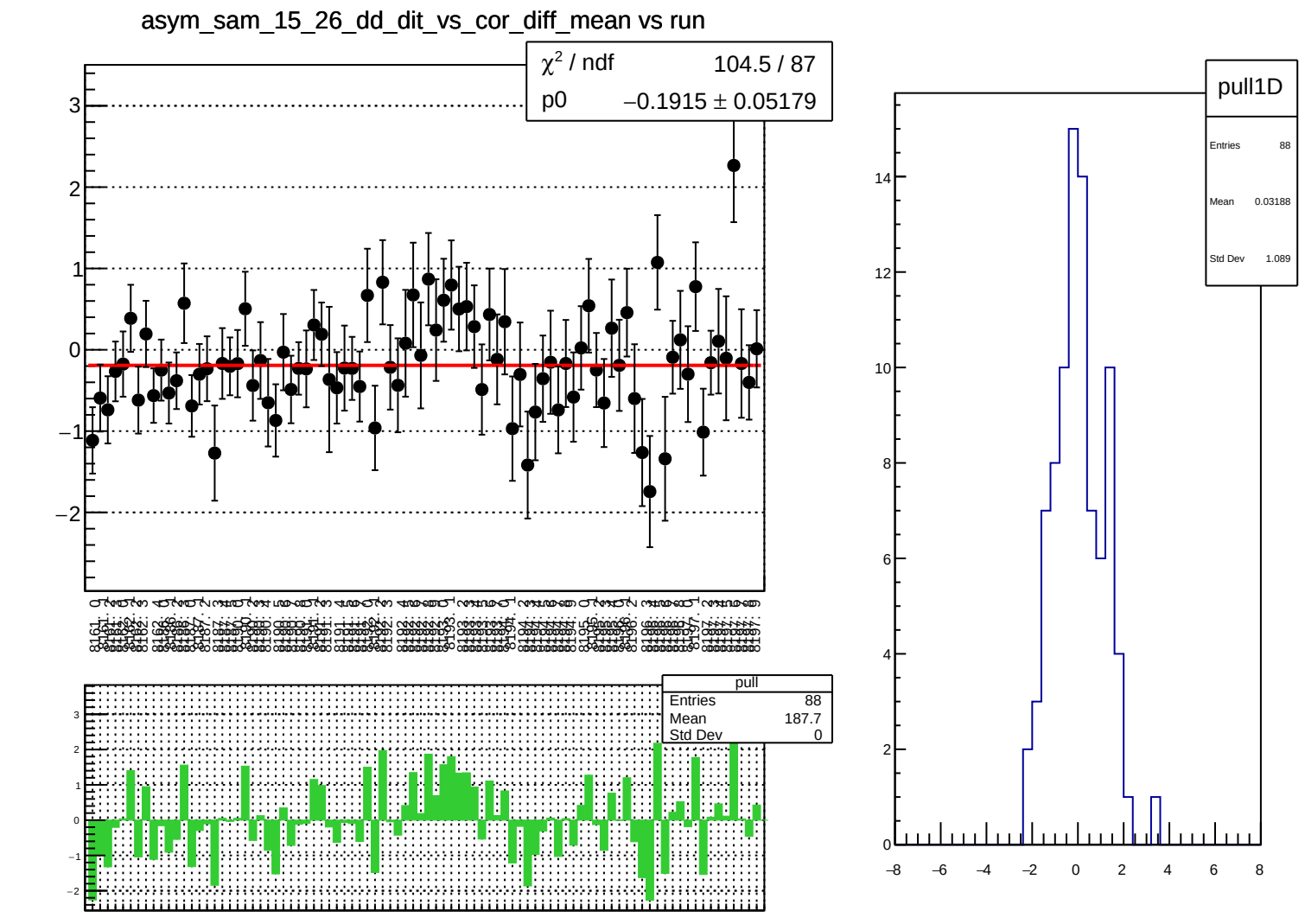

asym_sam_15_26_dd_mean vs run
χ² / ndf 79.51 / 87
p0 −882.7 ± 1039
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 592.8
Std Dev 0
2
1
0
−1
−2

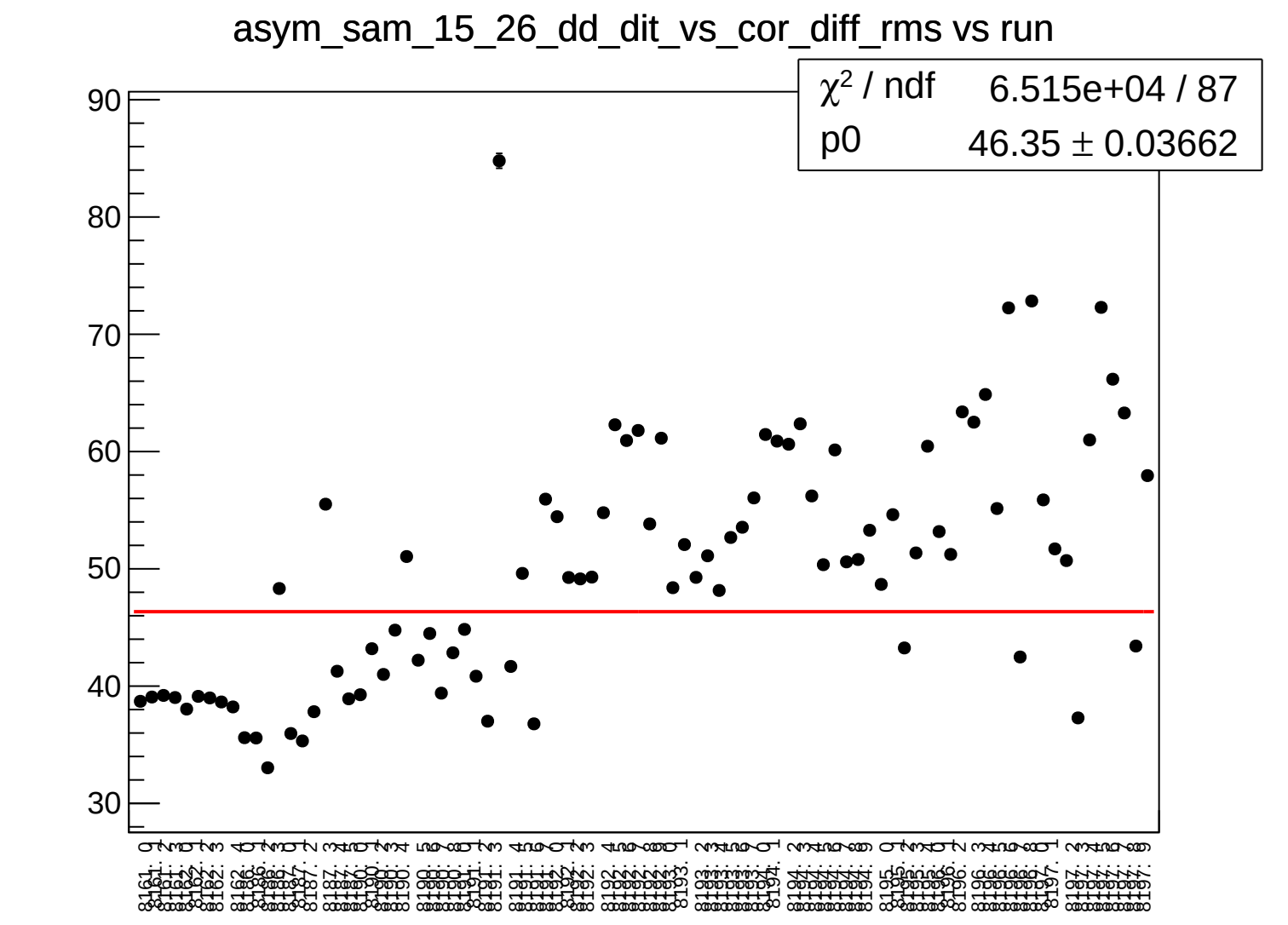

pull1D
Entries 88
Mean 0.007779
Std Dev 0.9505
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

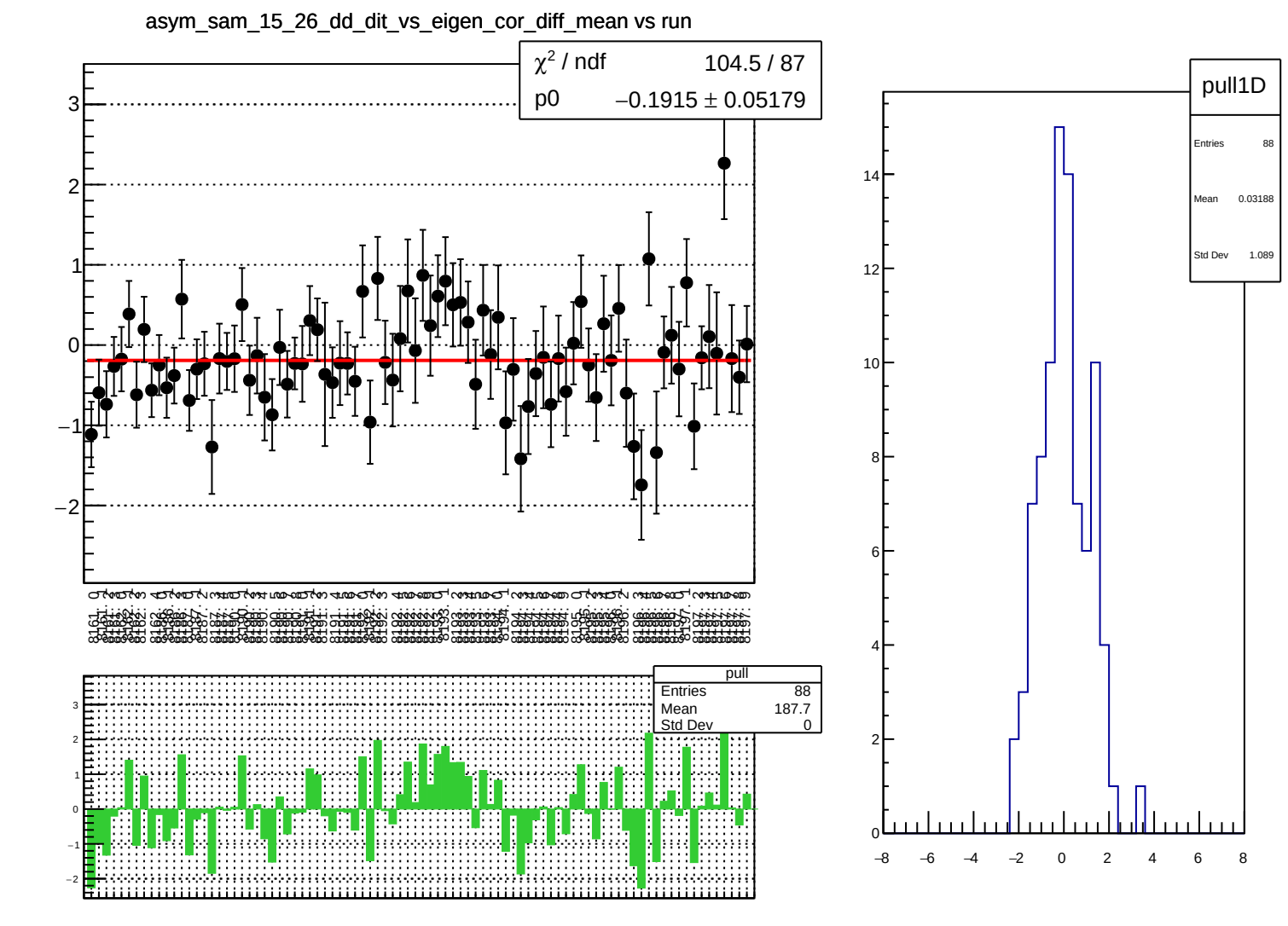

asym_sam_15_26_dd_rms vs run
χ² / ndf 2.153e+04 / 87
p0 942.7 ± 0.7349
1100
1000
900
800
700

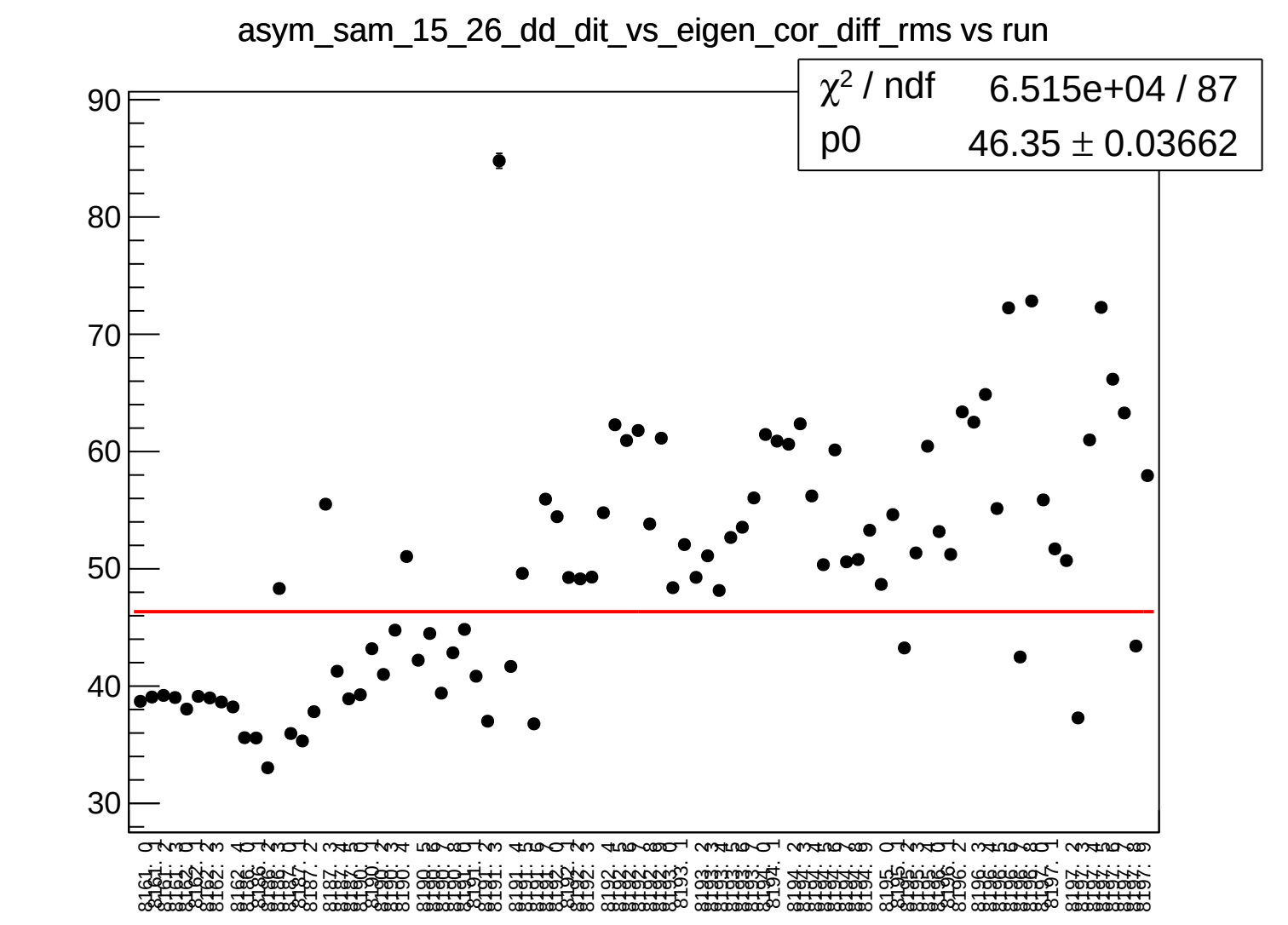

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.78 / 87
p0 1.006e−13 ± 1.009e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 7.107
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.08844
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

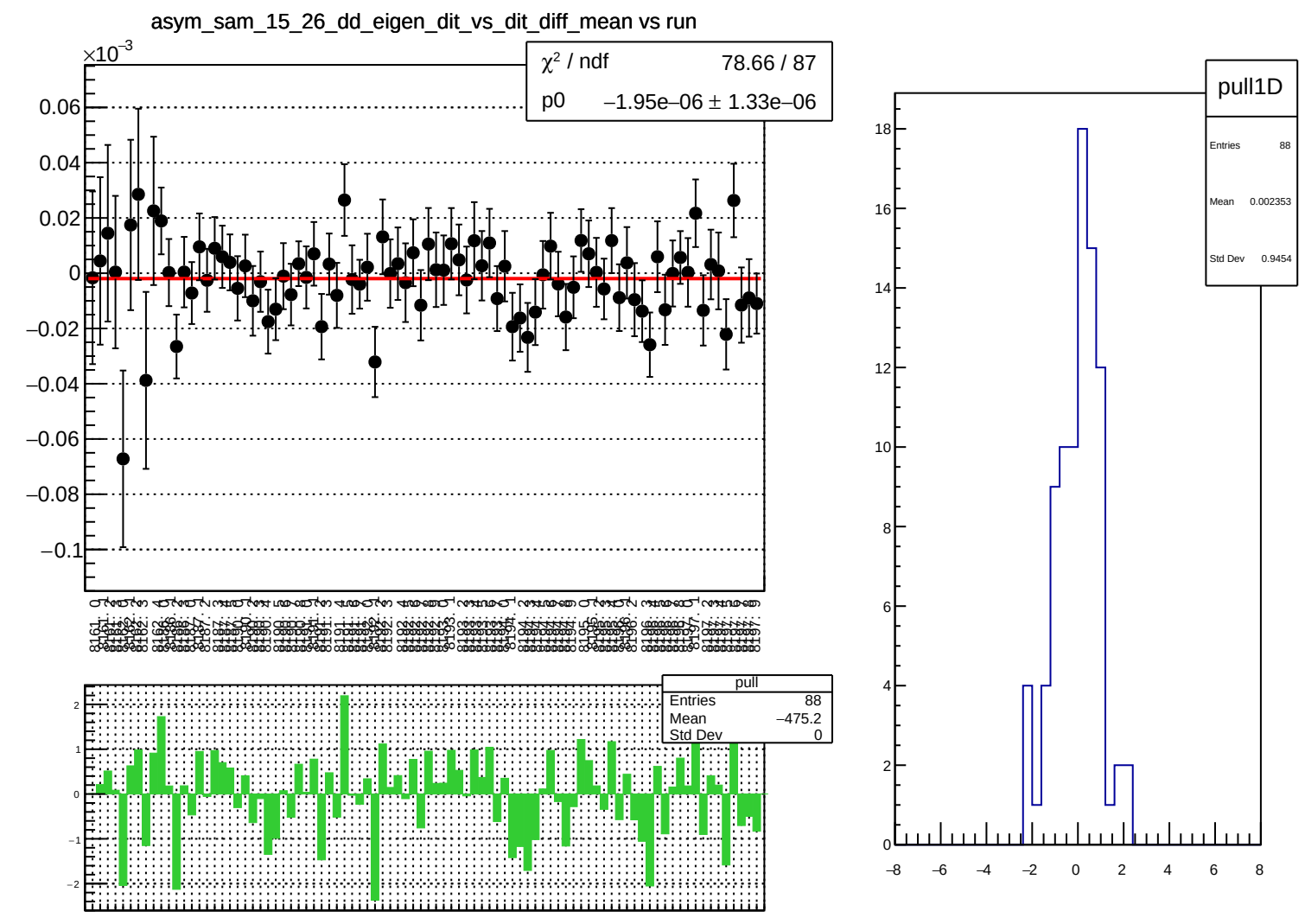

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.356e+05 / 87
p0 6.101e−11 ± 7.134e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

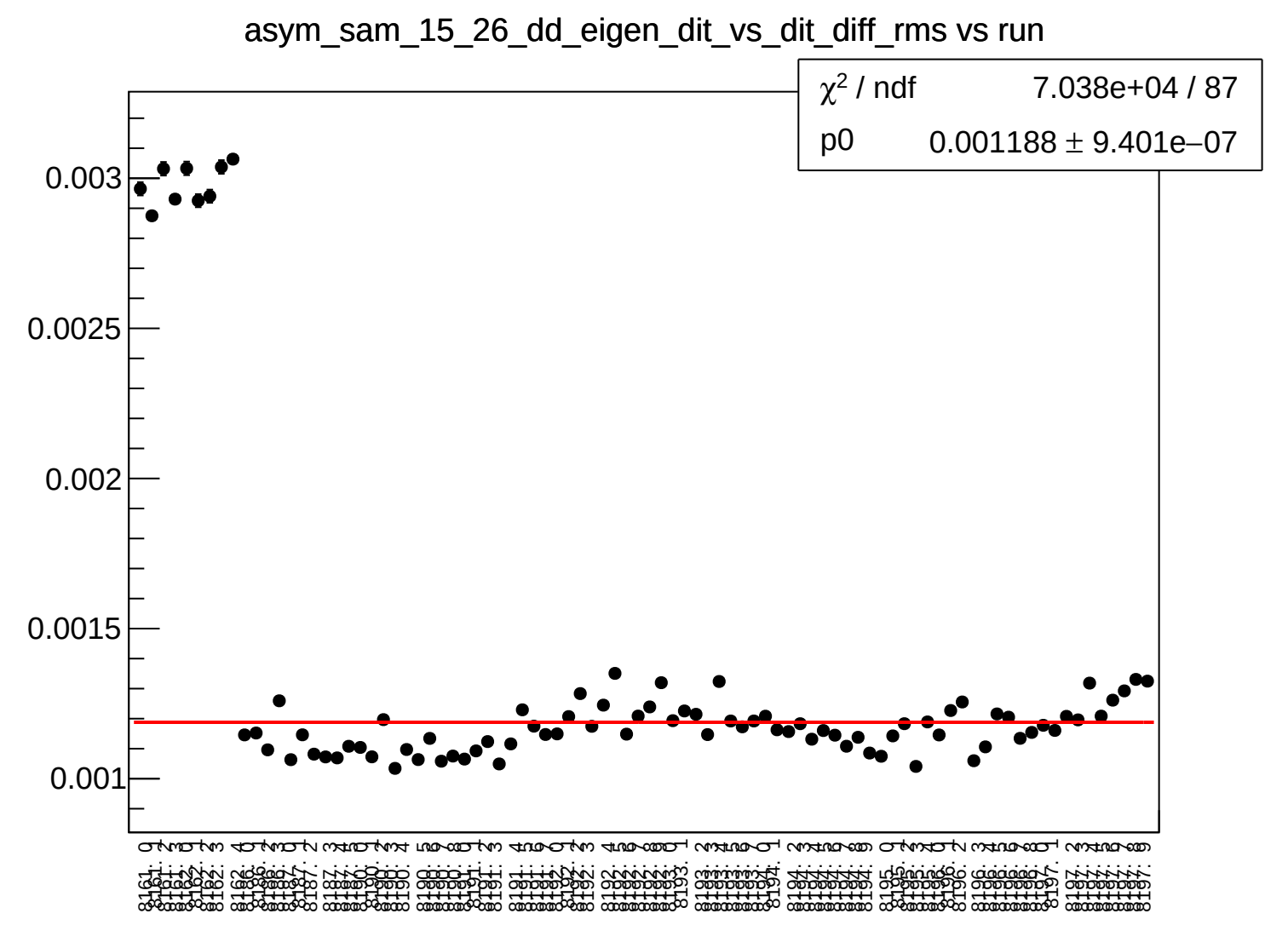

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 87
p0 −0.1915 ± 0.05179
pull
Entries 88
Mean 187.7
Std Dev 0
pull1D
Entries 88
Mean 0.03188
Std Dev 1.089

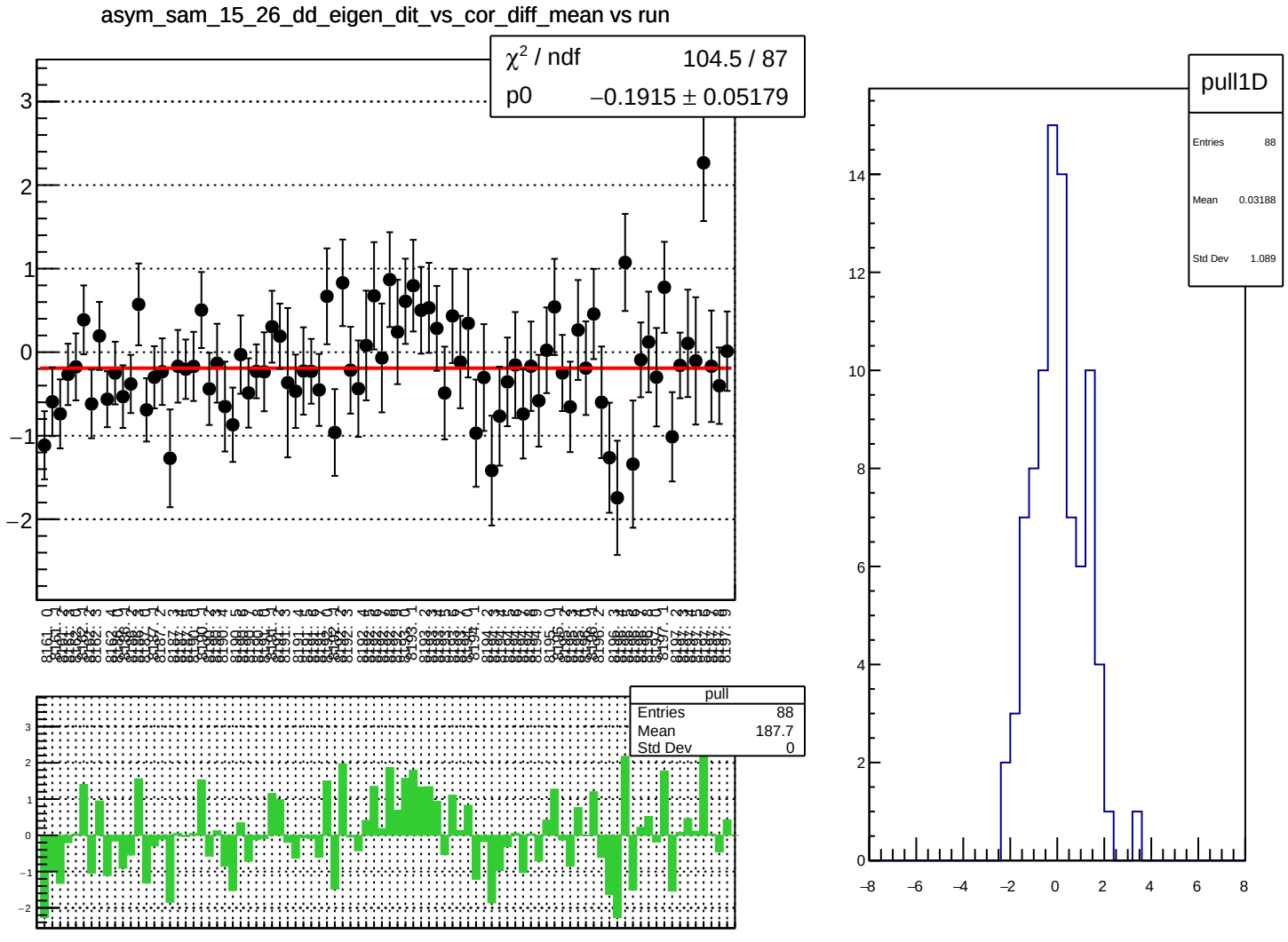

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.515e+04 / 87
p0 46.35 ± 0.03662
90
80
70
60
50
40
30

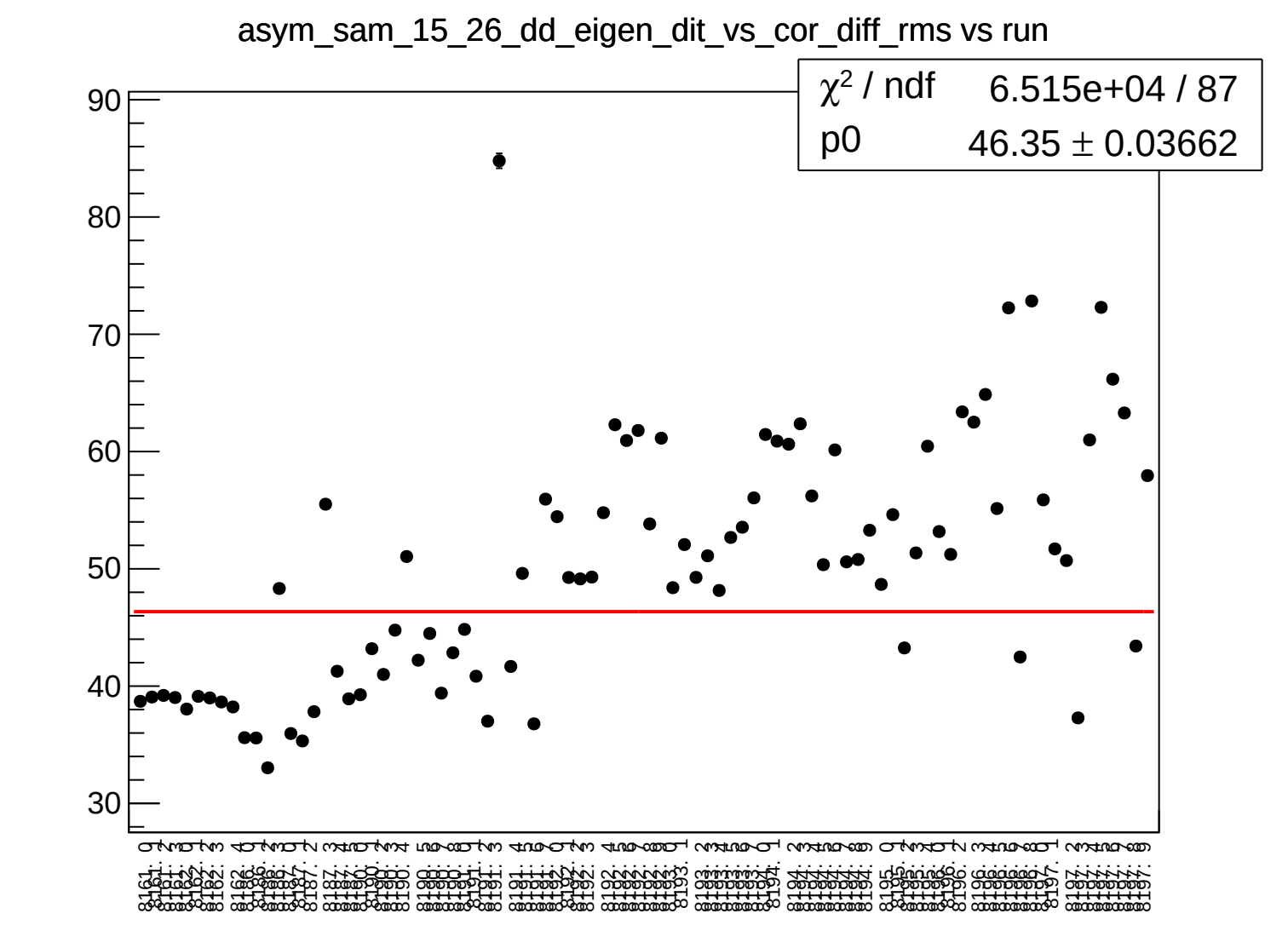

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 87
p0 −0.1915 ± 0.05179
pull
Entries 88
Mean 187.7
Std Dev 0
pull1D
Entries 88
Mean 0.03188
Std Dev 1.089

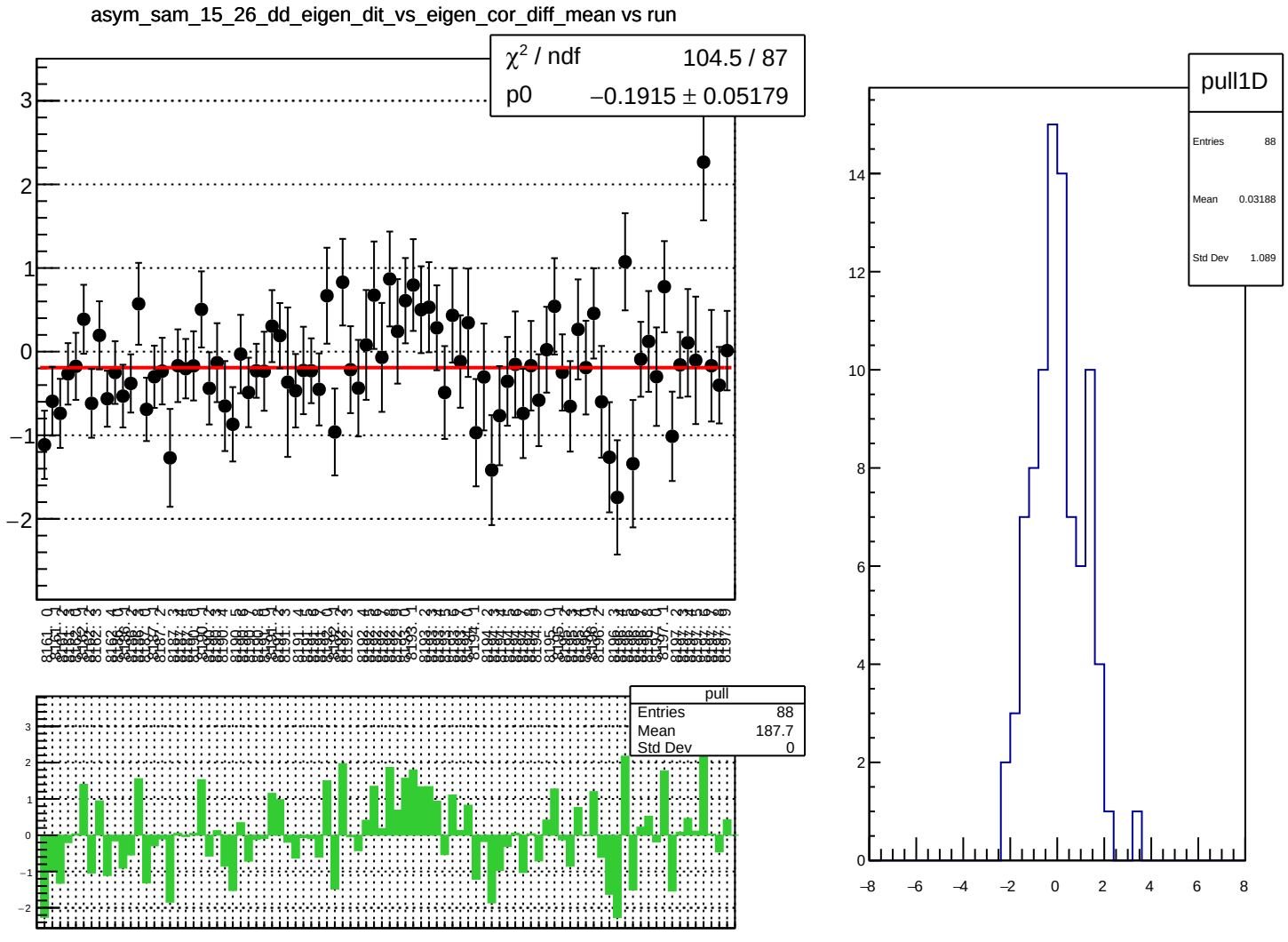

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.515e+04 / 87
p0 46.35 ± 0.03662
90
80
70
60
50
40
30

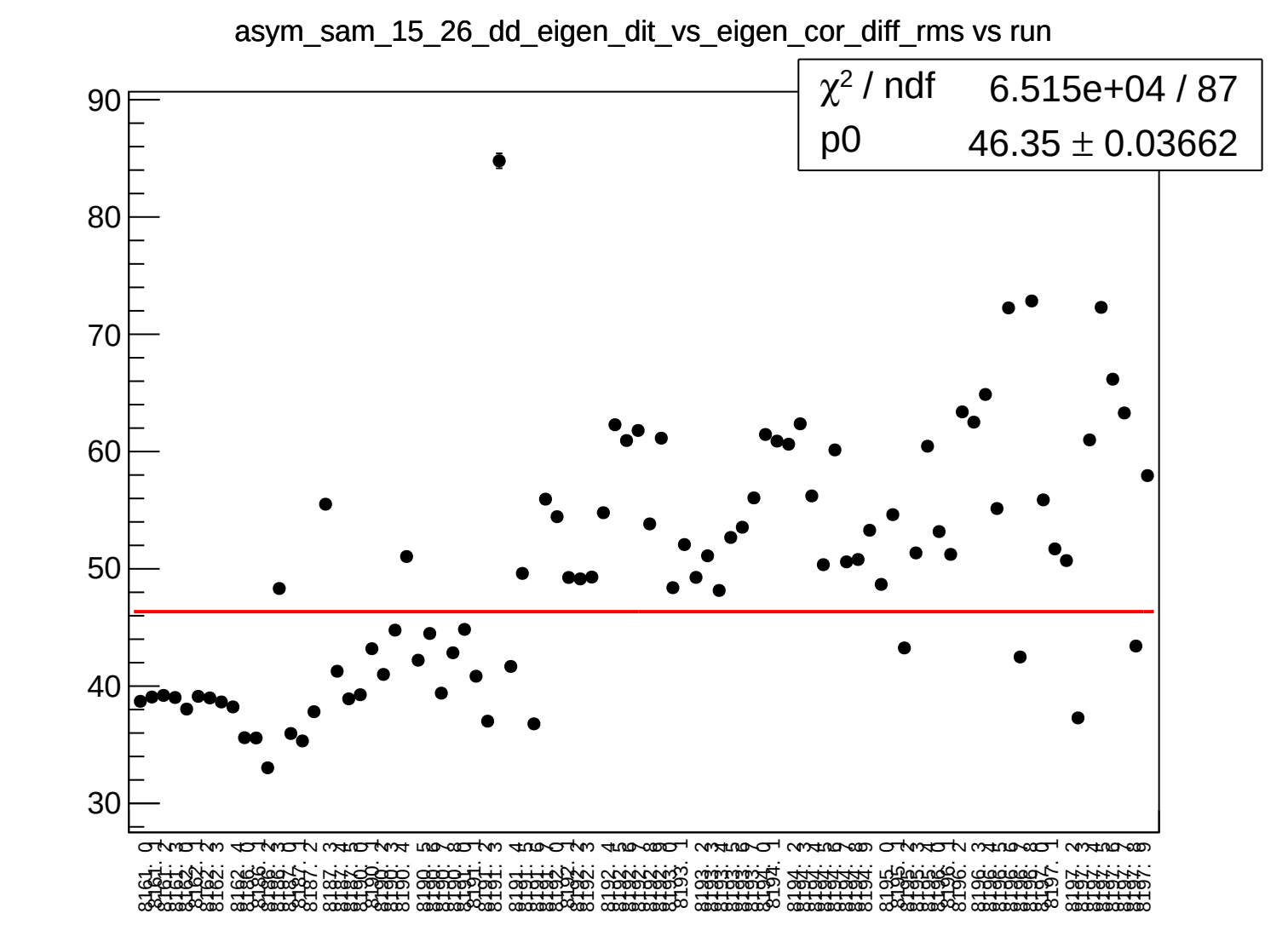

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.66 / 87
p0 −1.95e−06 ± 1.33e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 88
Mean −475.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002353
Std Dev 0.9454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

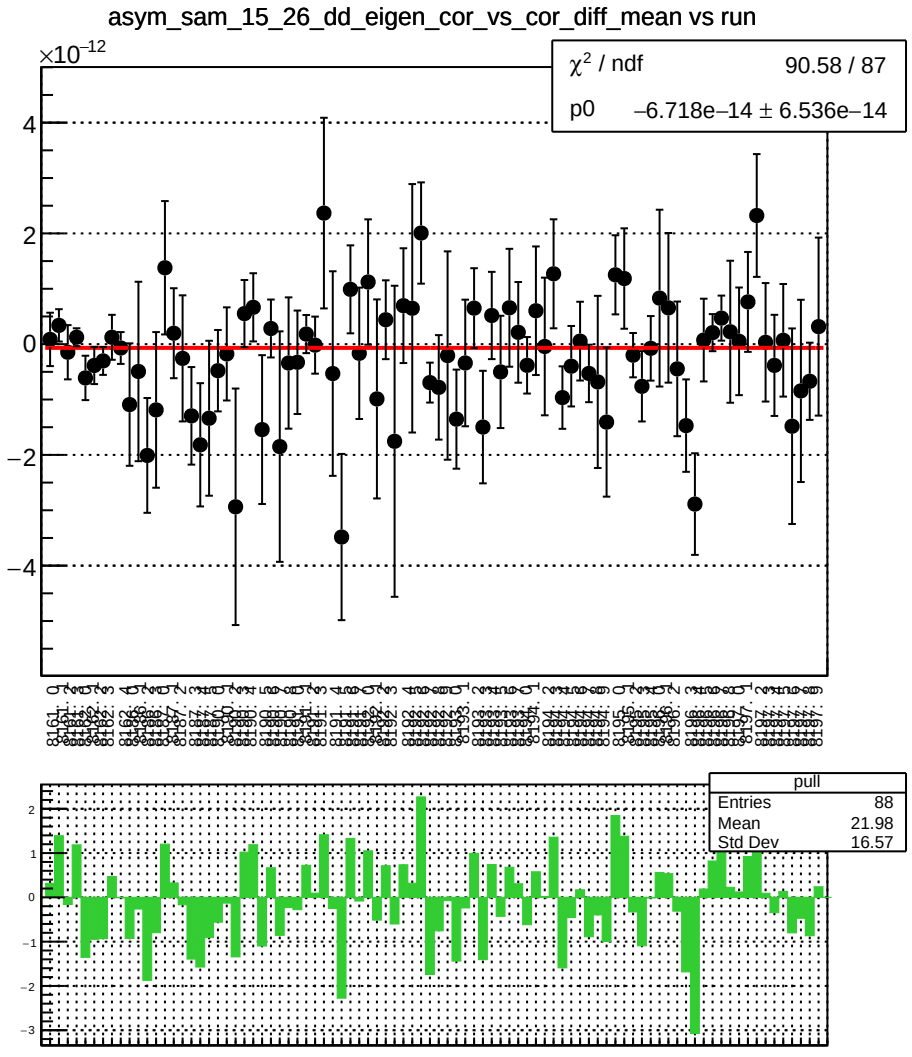

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.038e+04 / 87
p0 0.001188 ± 9.401e−07
0.003
0.0025
0.002
0.0015
0.001

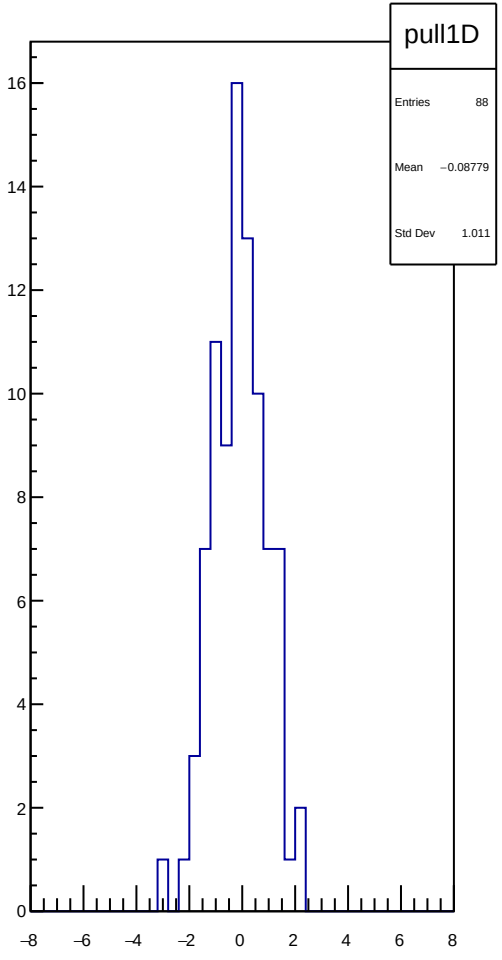

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 87
p0 −0.1915 ± 0.05179
pull
Entries 88
Mean 187.7
Std Dev 0
pull1D
Entries 88
Mean 0.03188
Std Dev 1.089

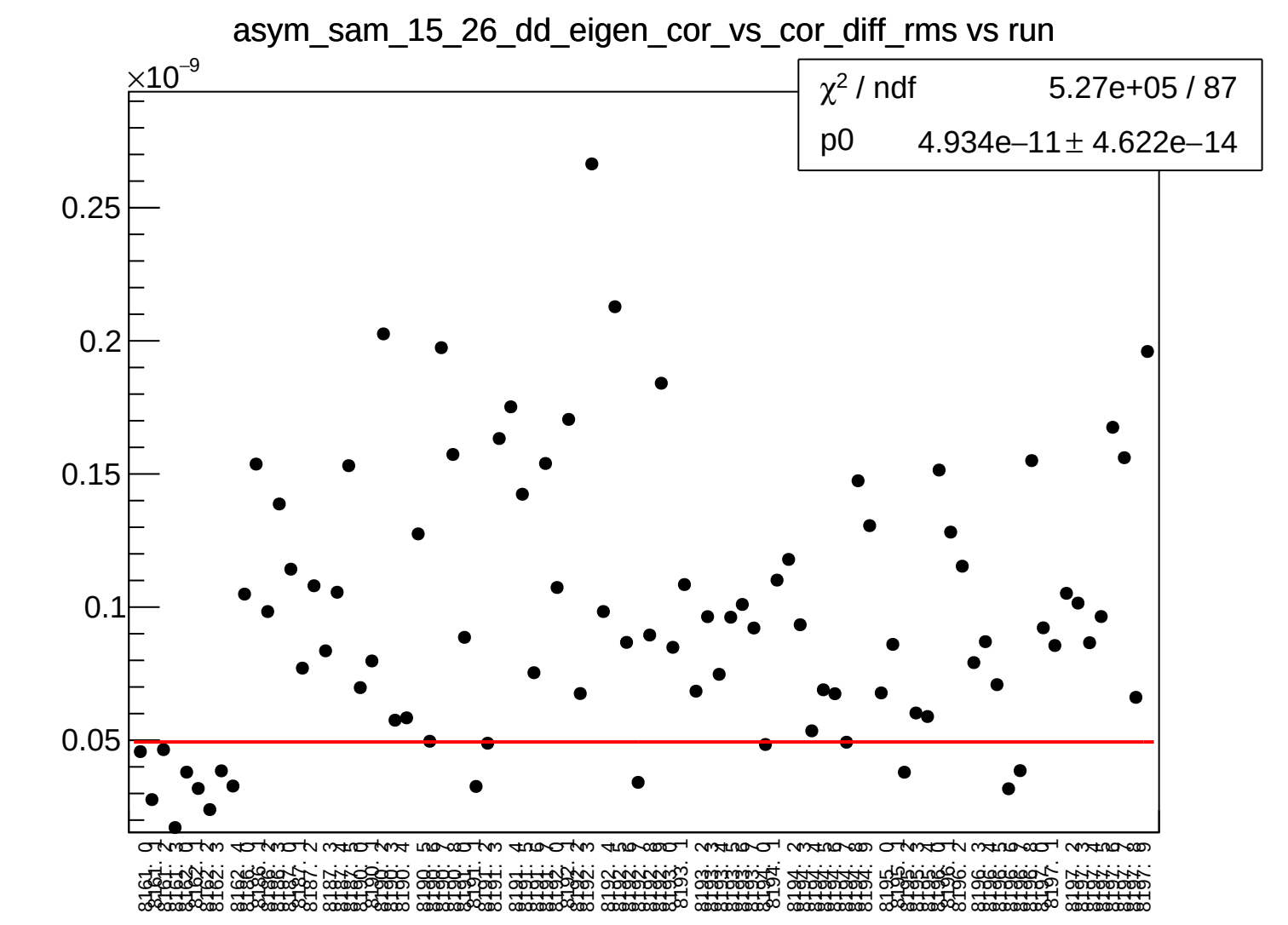

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.515e+04 / 87
p0 46.35 ± 0.03662
90
80
70
60
50
40
30

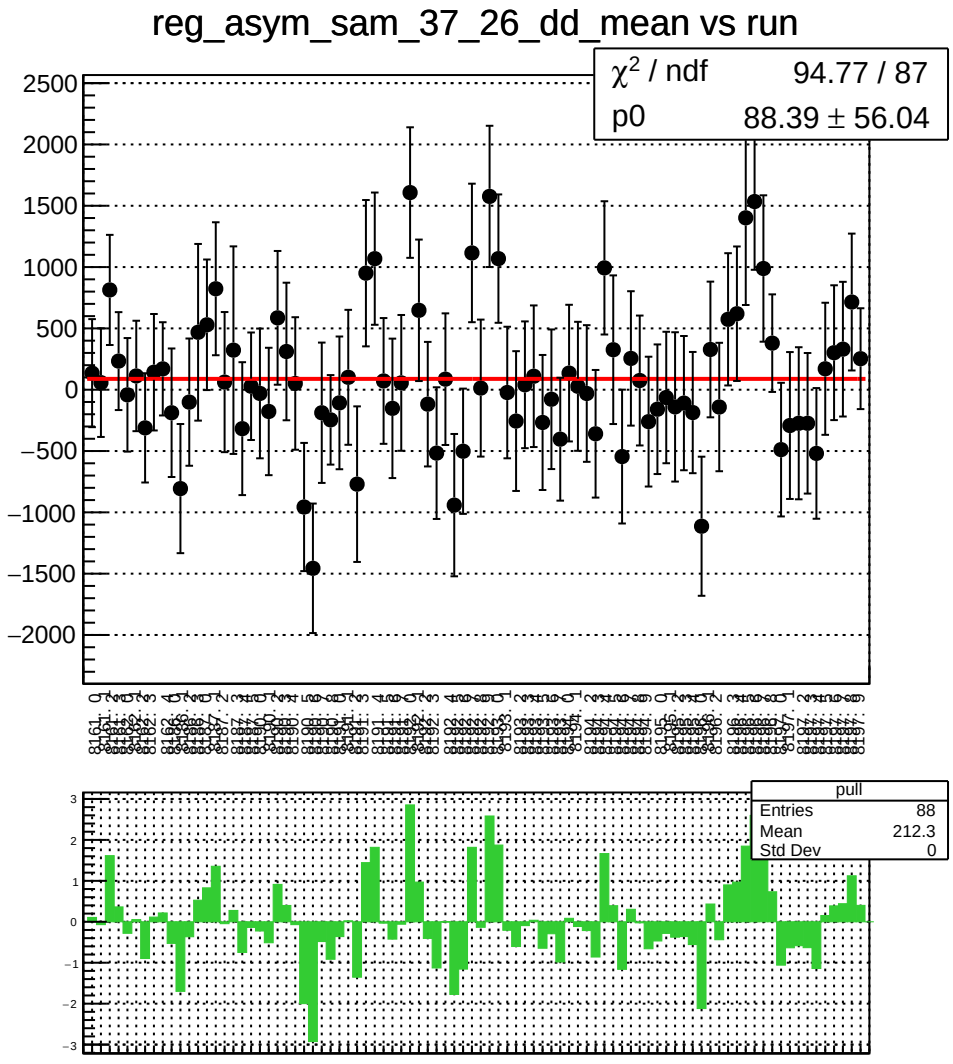

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 87
p0 −0.1915 ± 0.05179
pull
Entries 88
Mean 187.7
Std Dev 0
pull1D
Entries 88
Mean 0.03188
Std Dev 1.089

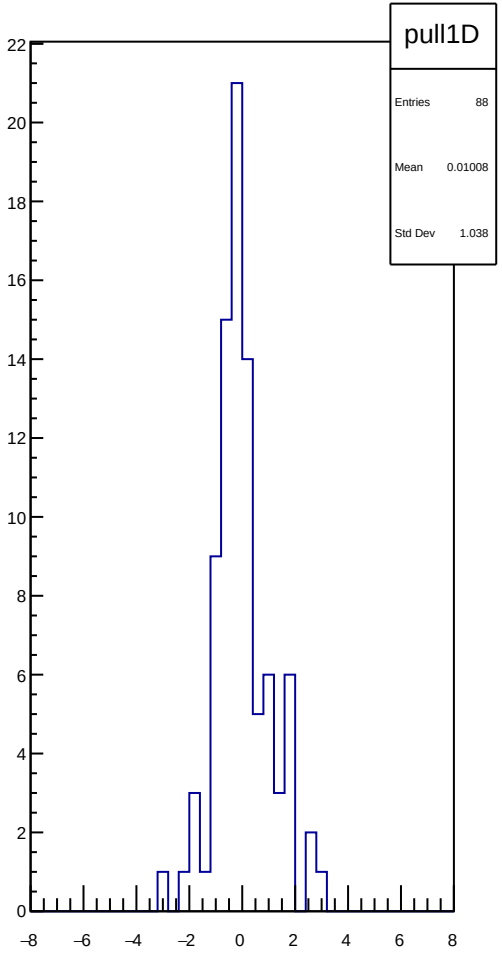

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.515e+04 / 87
p0 46.35 ± 0.03662
90
80
70
60
50
40
30

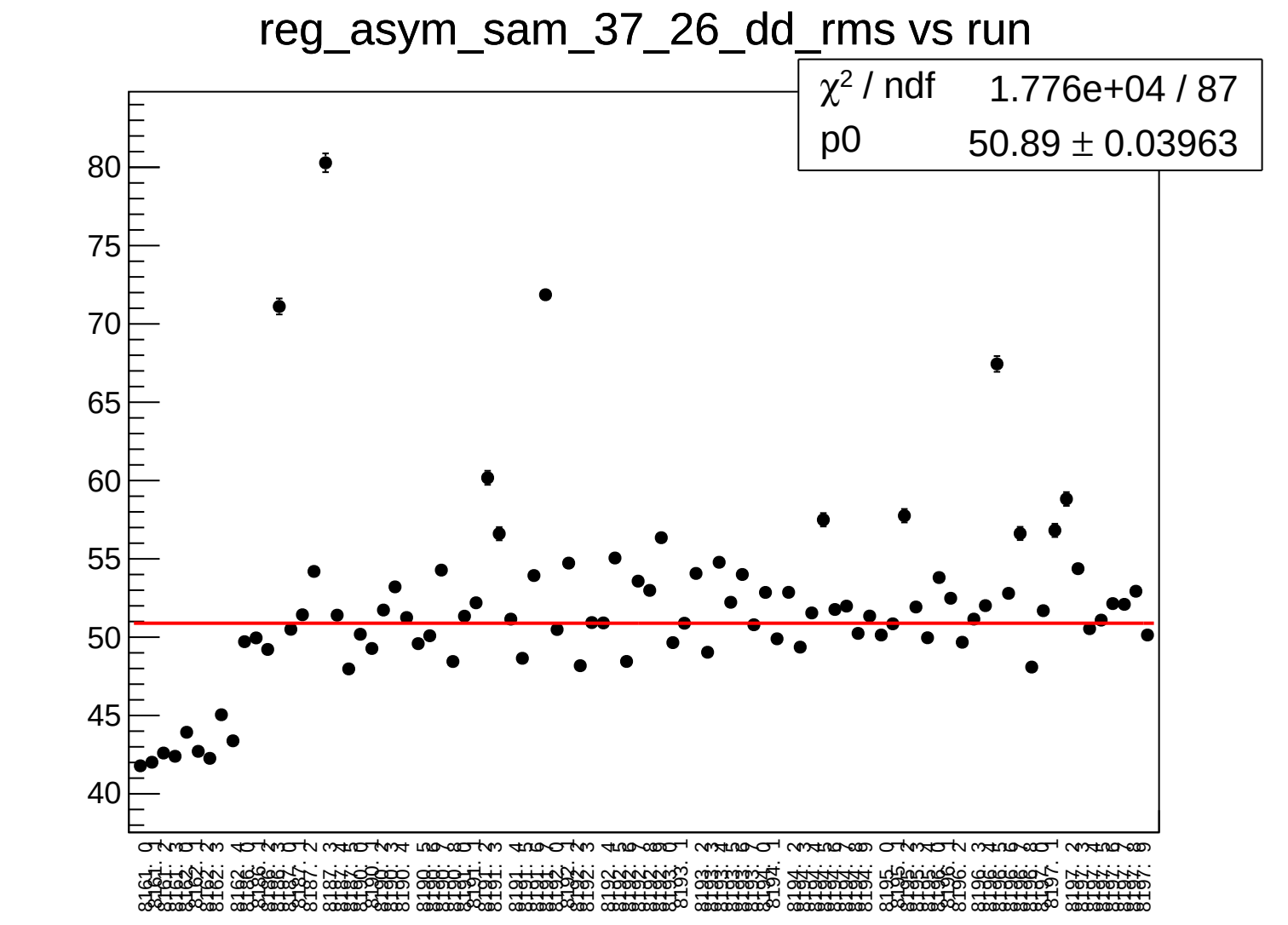

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.58 / 87
p0 −6.718e−14 ± 6.536e−14
pull
Entries 88
Mean 21.98
Std Dev 16.57

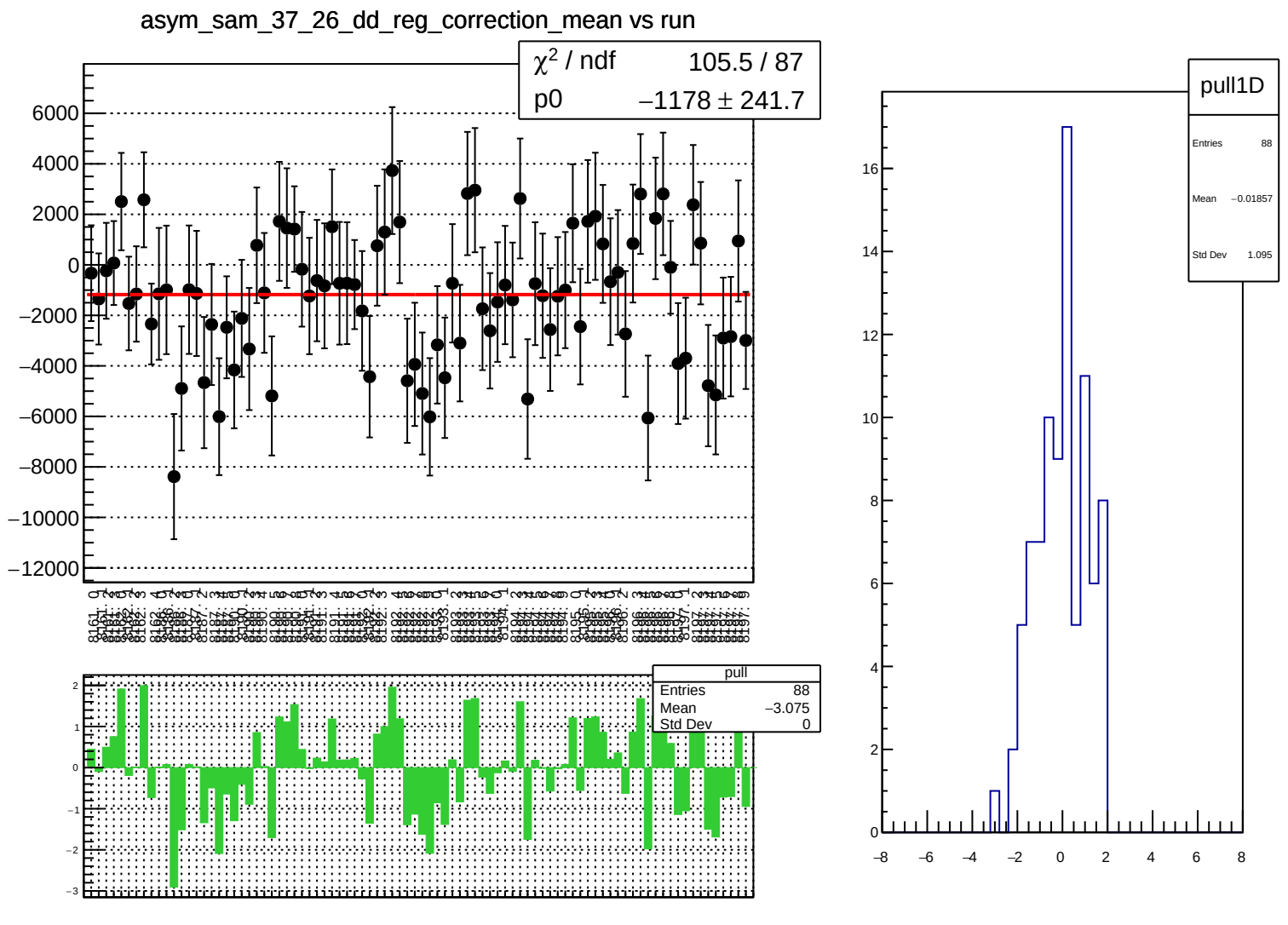

pull1D
Entries 88
Mean −0.08779
Std Dev 1.011

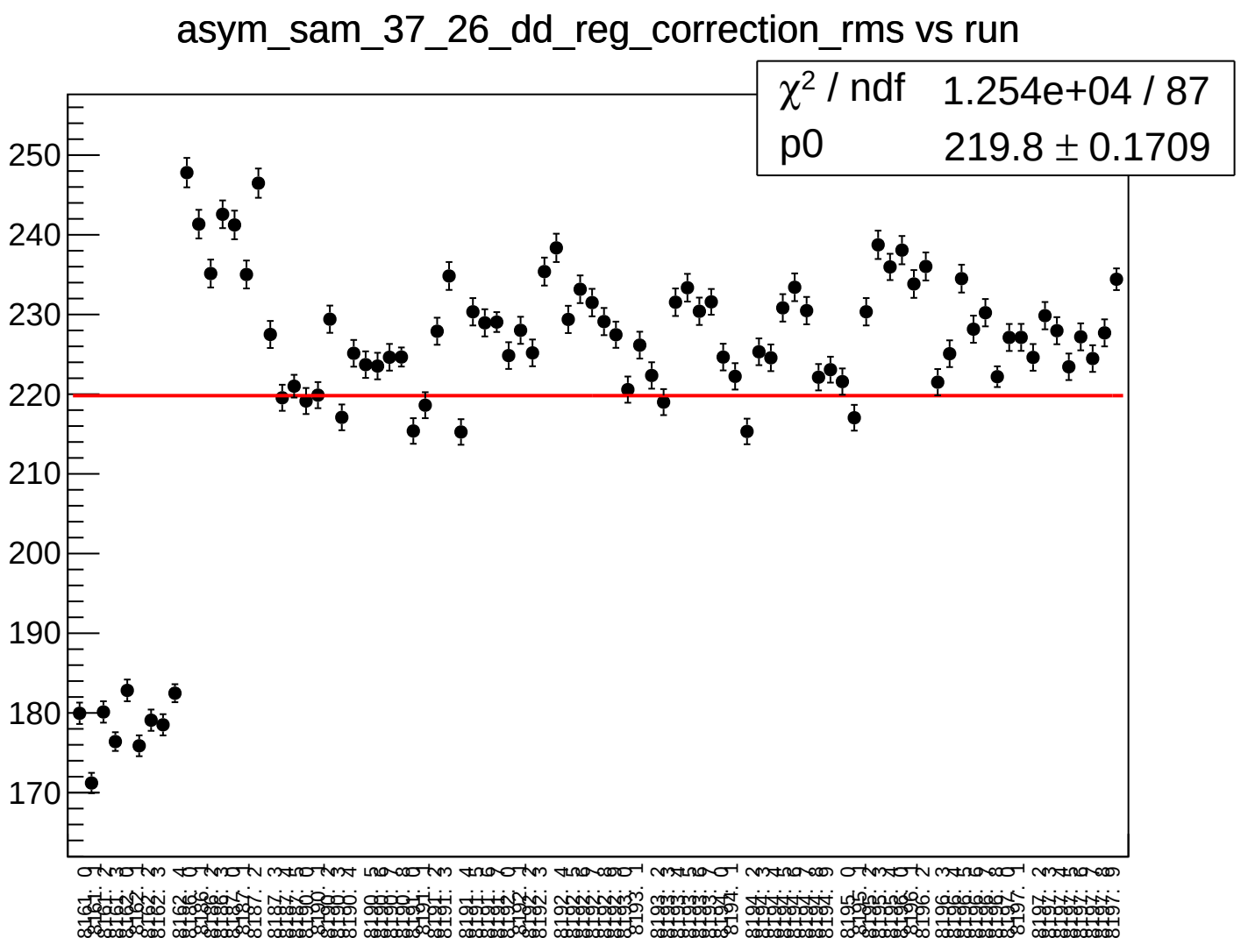

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.27e+05 / 87
p0 4.934e−11 ± 4.622e−14
0.25
0.2
0.15
0.1
0.05

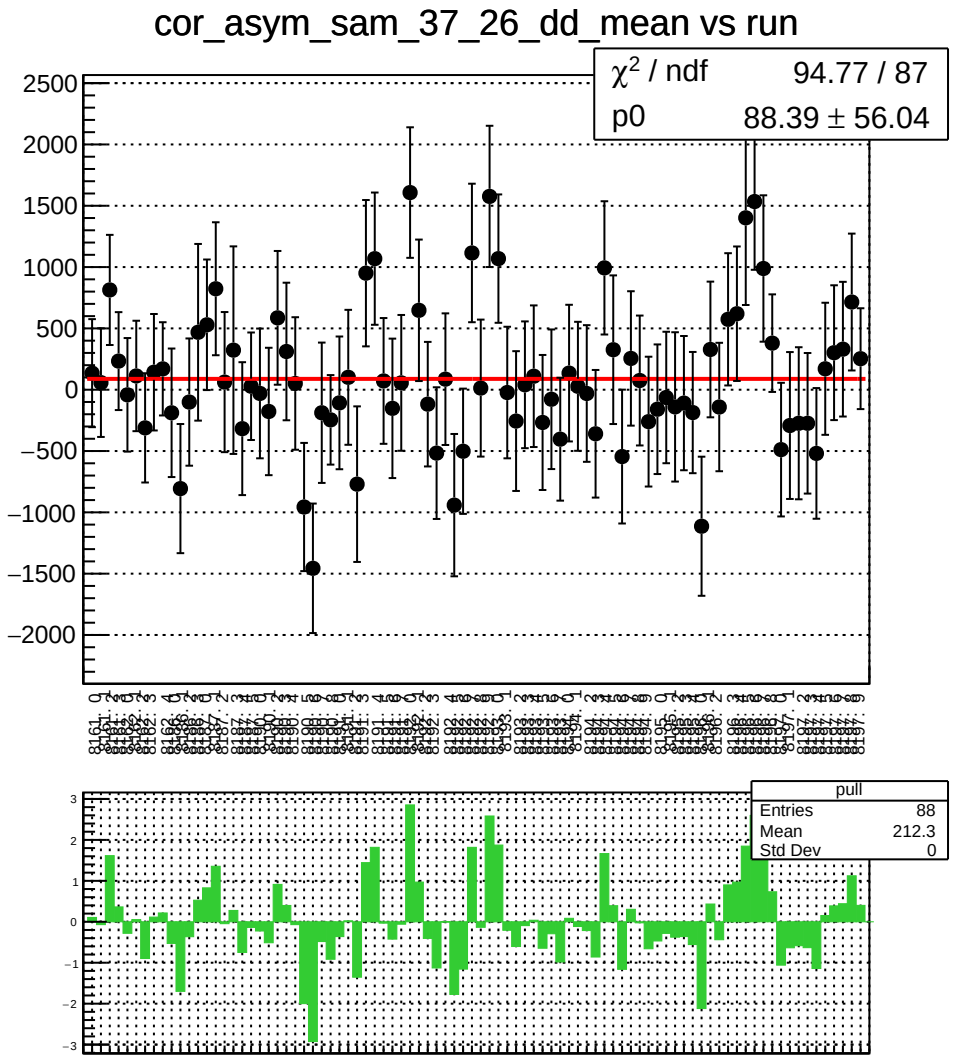

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 94.77 / 87
p0 88.39 ± 56.04
pull
Entries 88
Mean 212.3
Std Dev 0

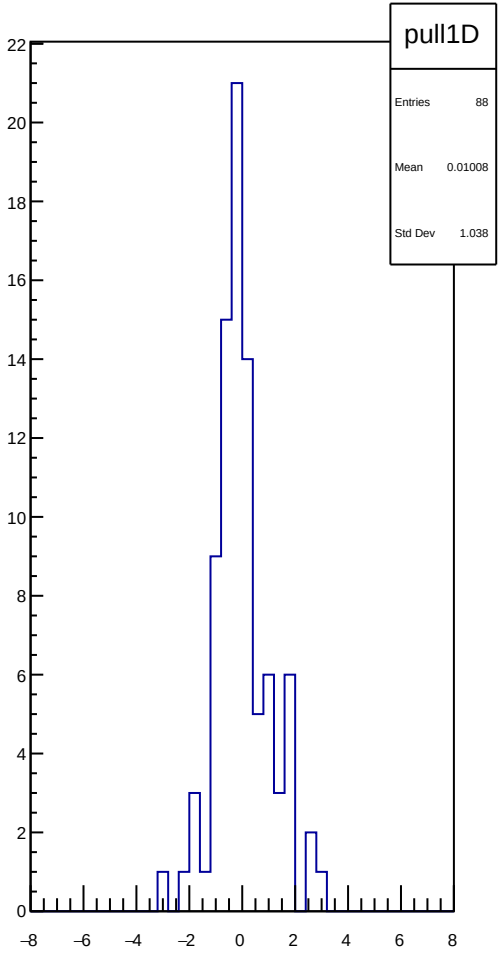

pull1D
Entries 88
Mean 0.01008
Std Dev 1.038

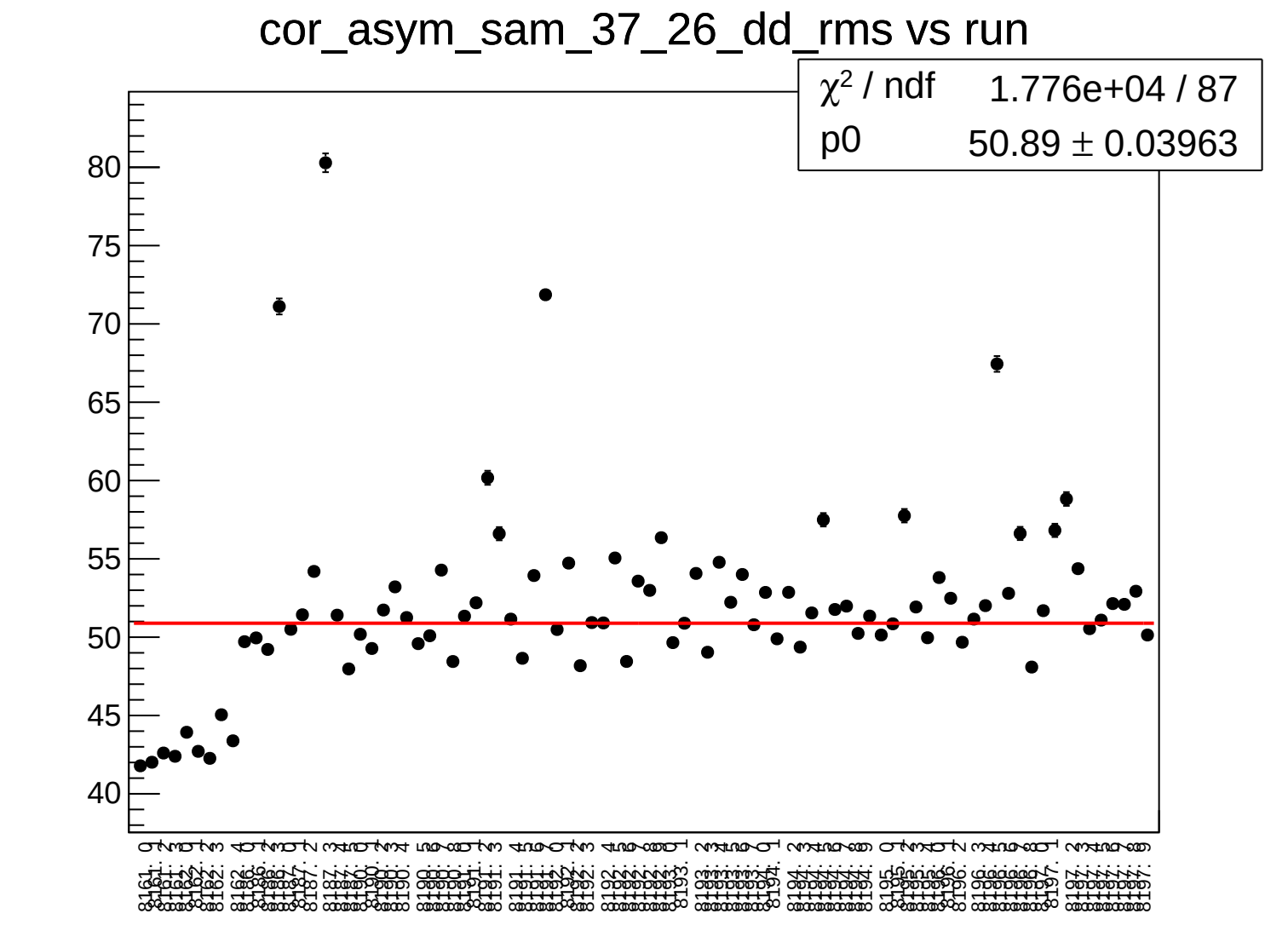

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.776e+04 / 87
p0 50.89 ± 0.03963
80
75
70
65
60
55
50
45
40

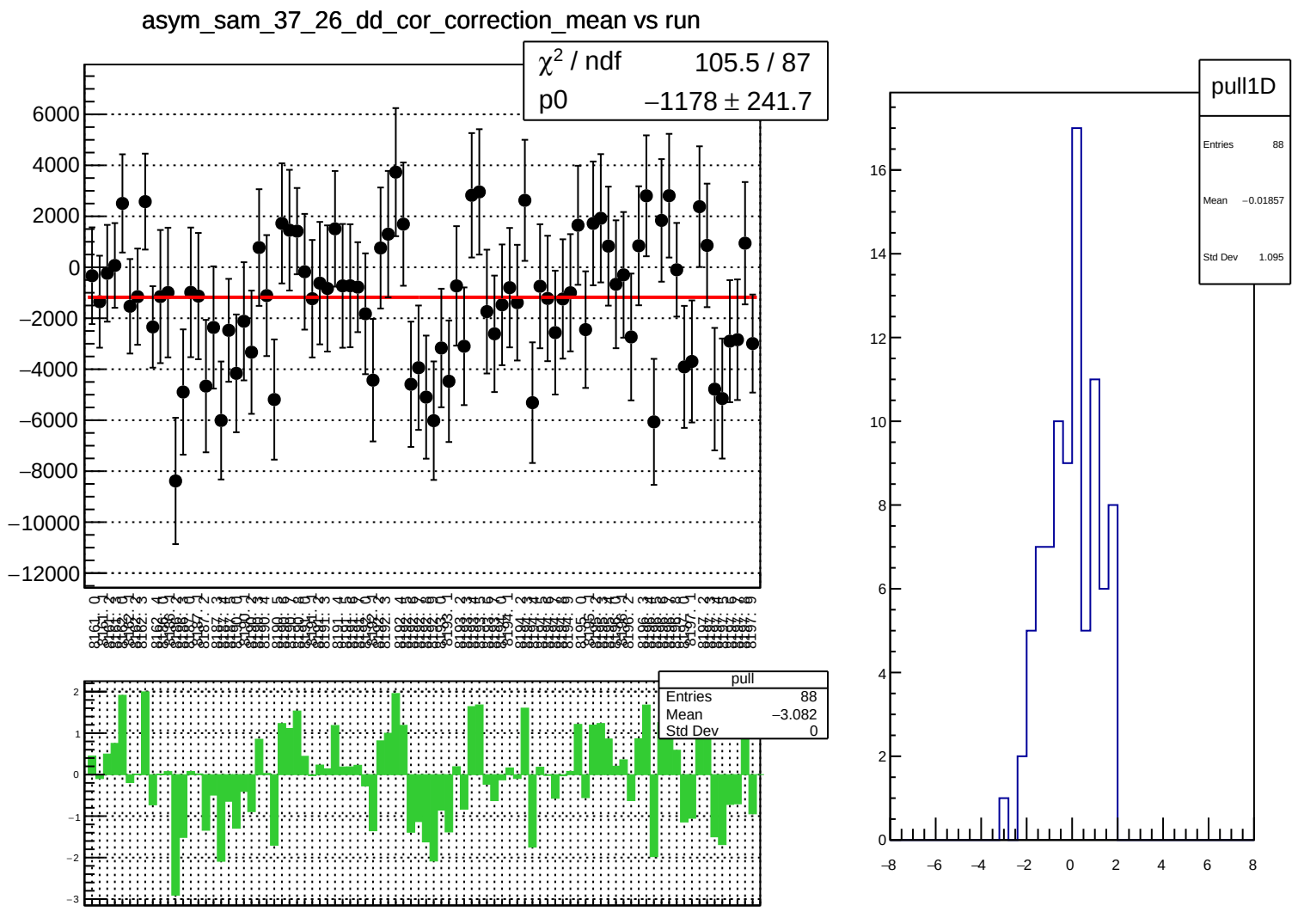

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −1178 ± 241.7
pull
Entries 88
Mean −3.075
Std Dev 0
pull1D
Entries 88
Mean −0.01857
Std Dev 1.095

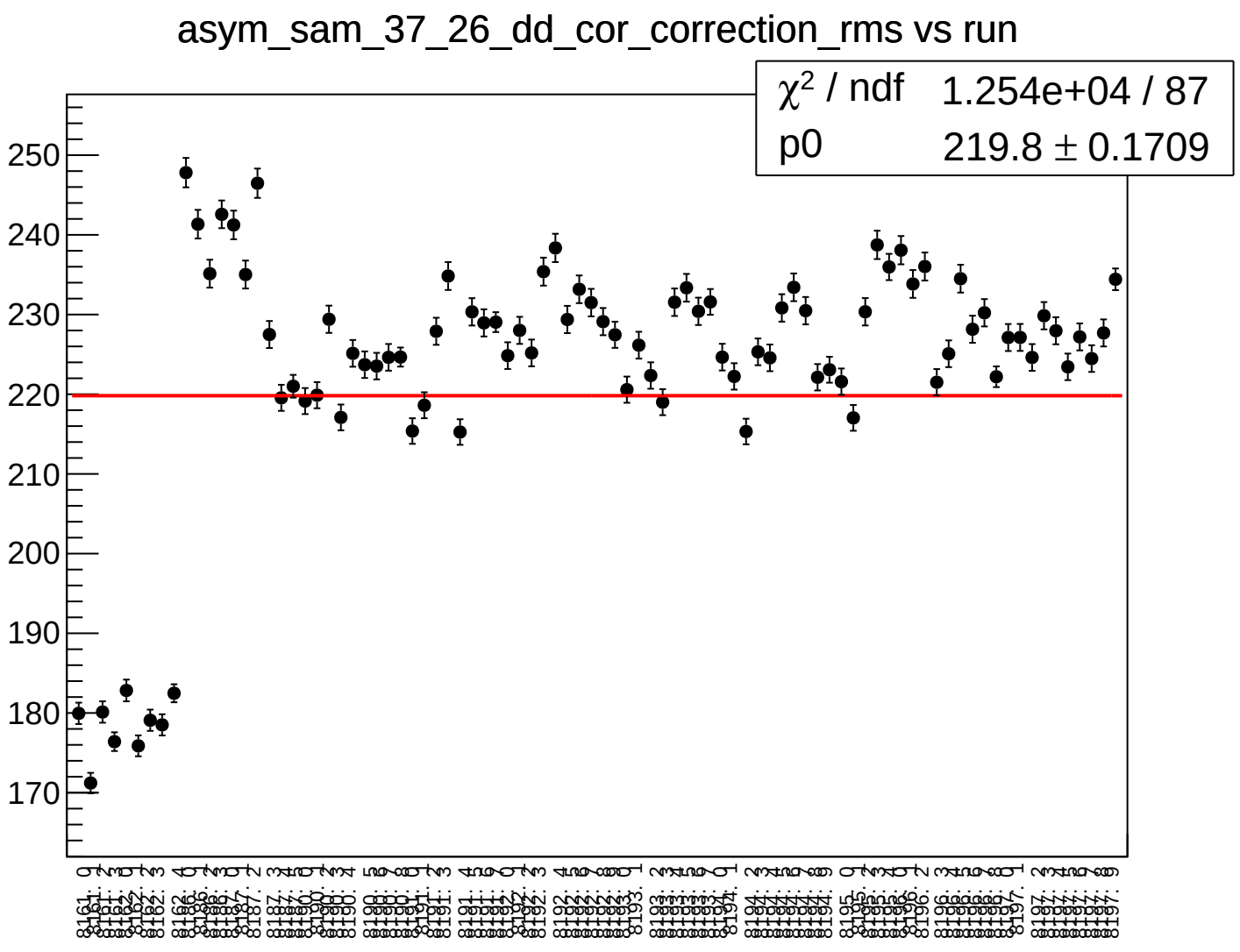

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.254e+04 / 87
p0 219.8 ± 0.1709
250
240
230
220
210
200
190
180
170

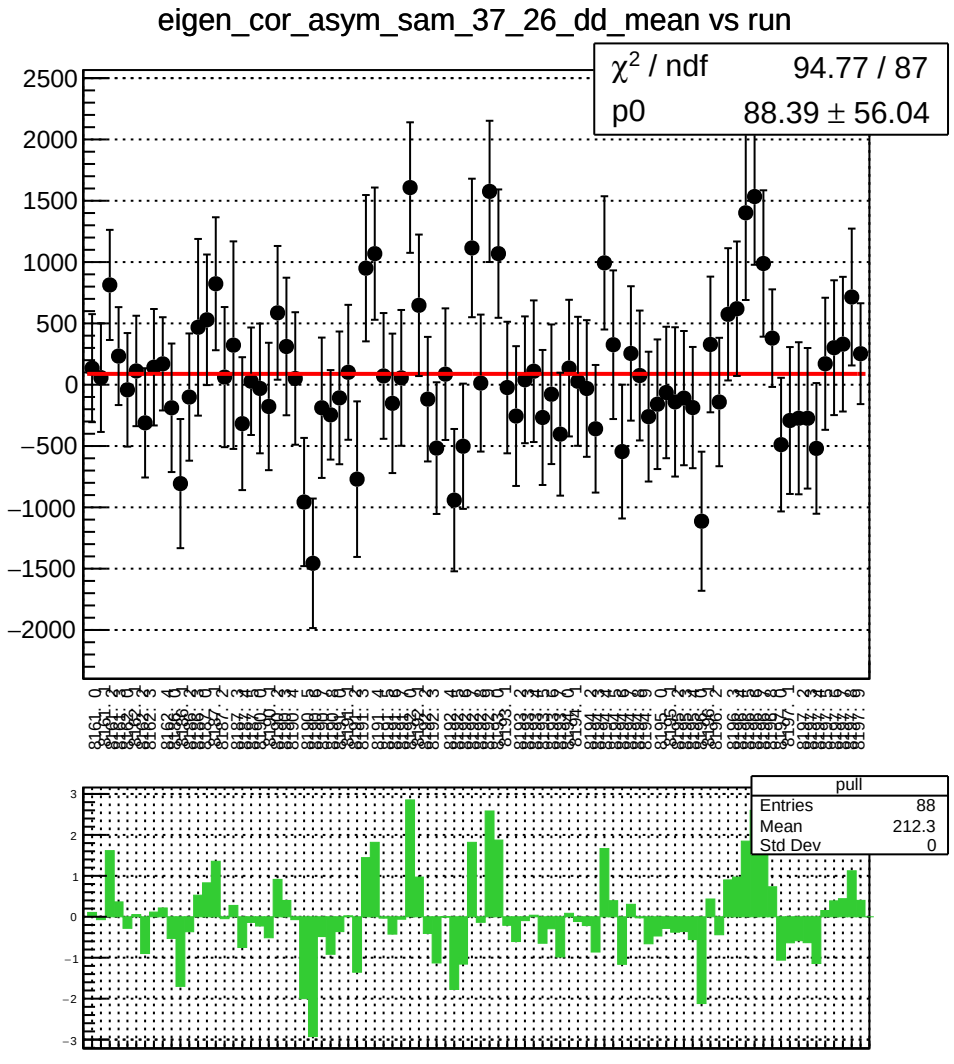

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 94.77 / 87
p0 88.39 ± 56.04
pull
Entries 88
Mean 212.3
Std Dev 0

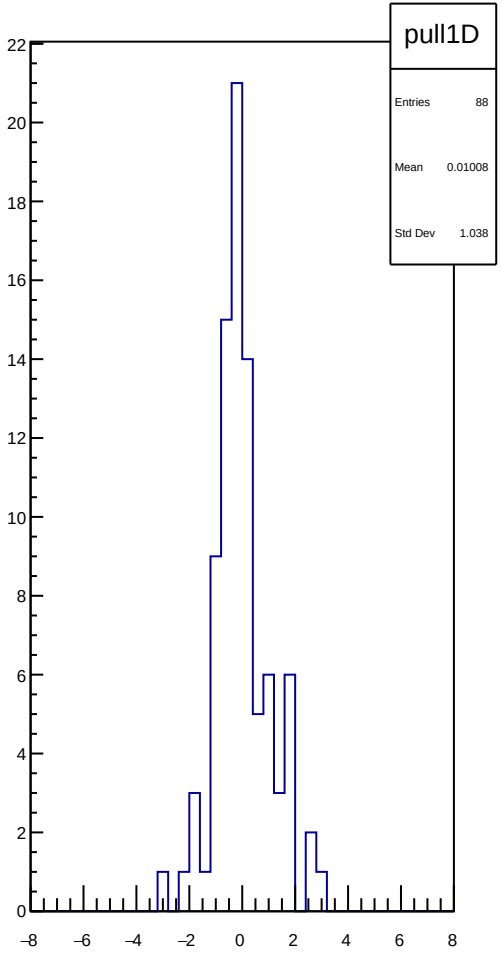

pull1D
Entries 88
Mean 0.01008
Std Dev 1.038

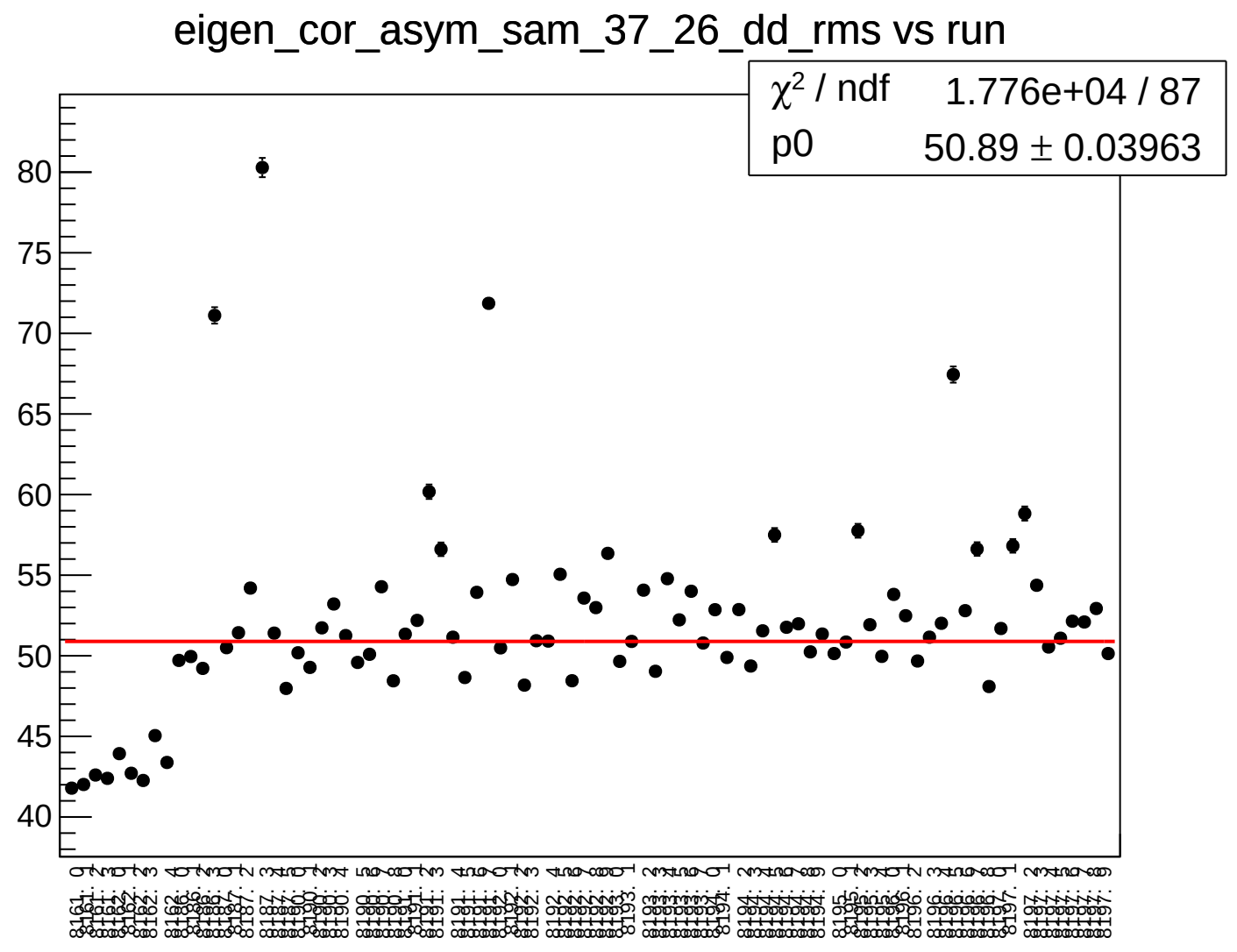

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.776e+04 / 87
p0 50.89 ± 0.03963
80
75
70
65
60
55
50
45
40

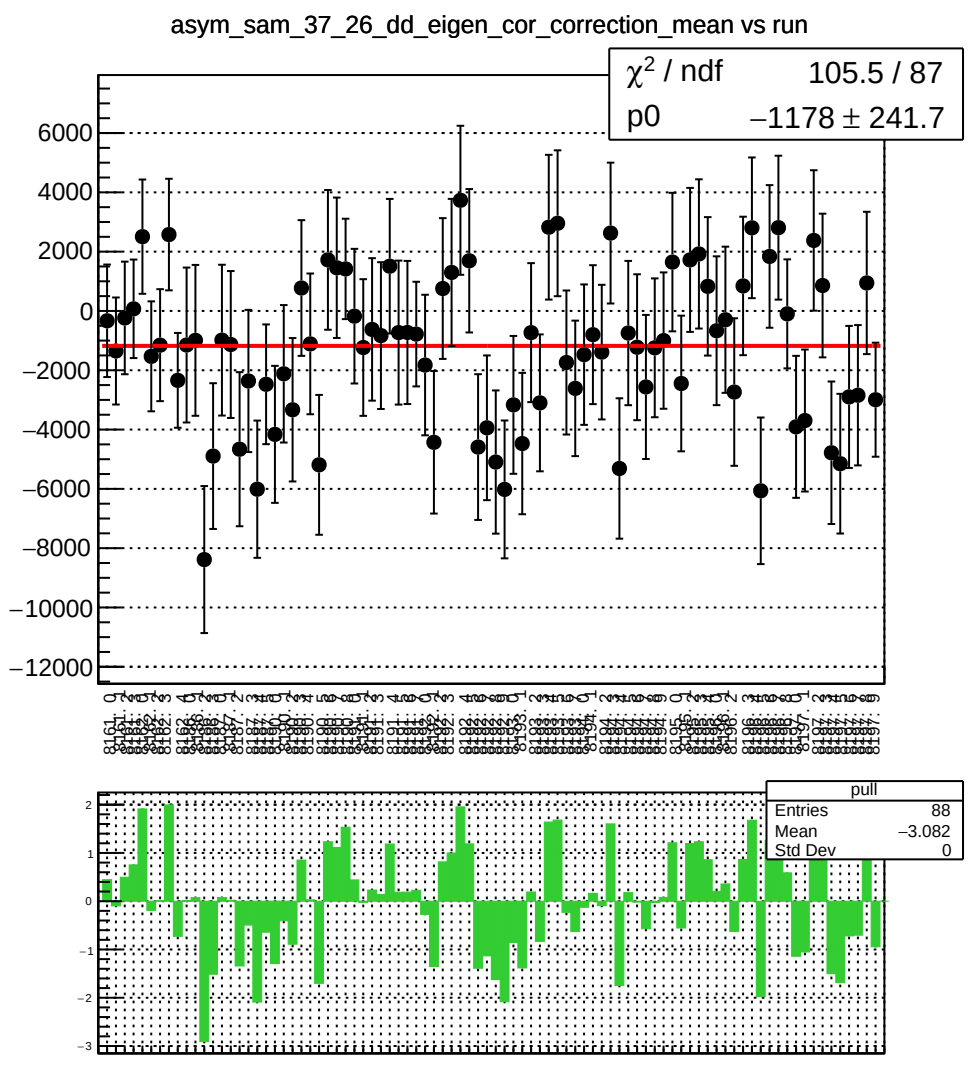

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −1178 ± 241.7
pull
Entries 88
Mean −3.082
Std Dev 0
pull1D
Entries 88
Mean −0.01857
Std Dev 1.095

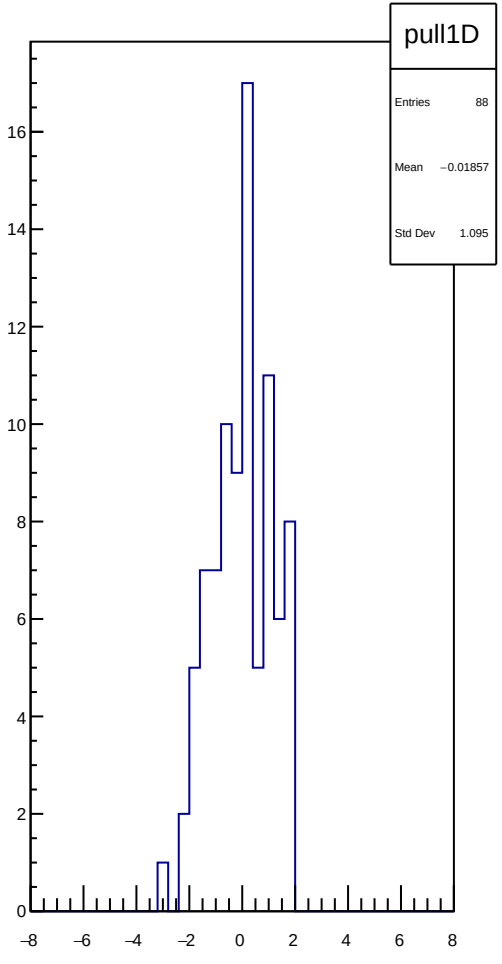

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1.254e+04 / 87
p0 219.8 ± 0.1709
250
240
230
220
210
200
190
180
170

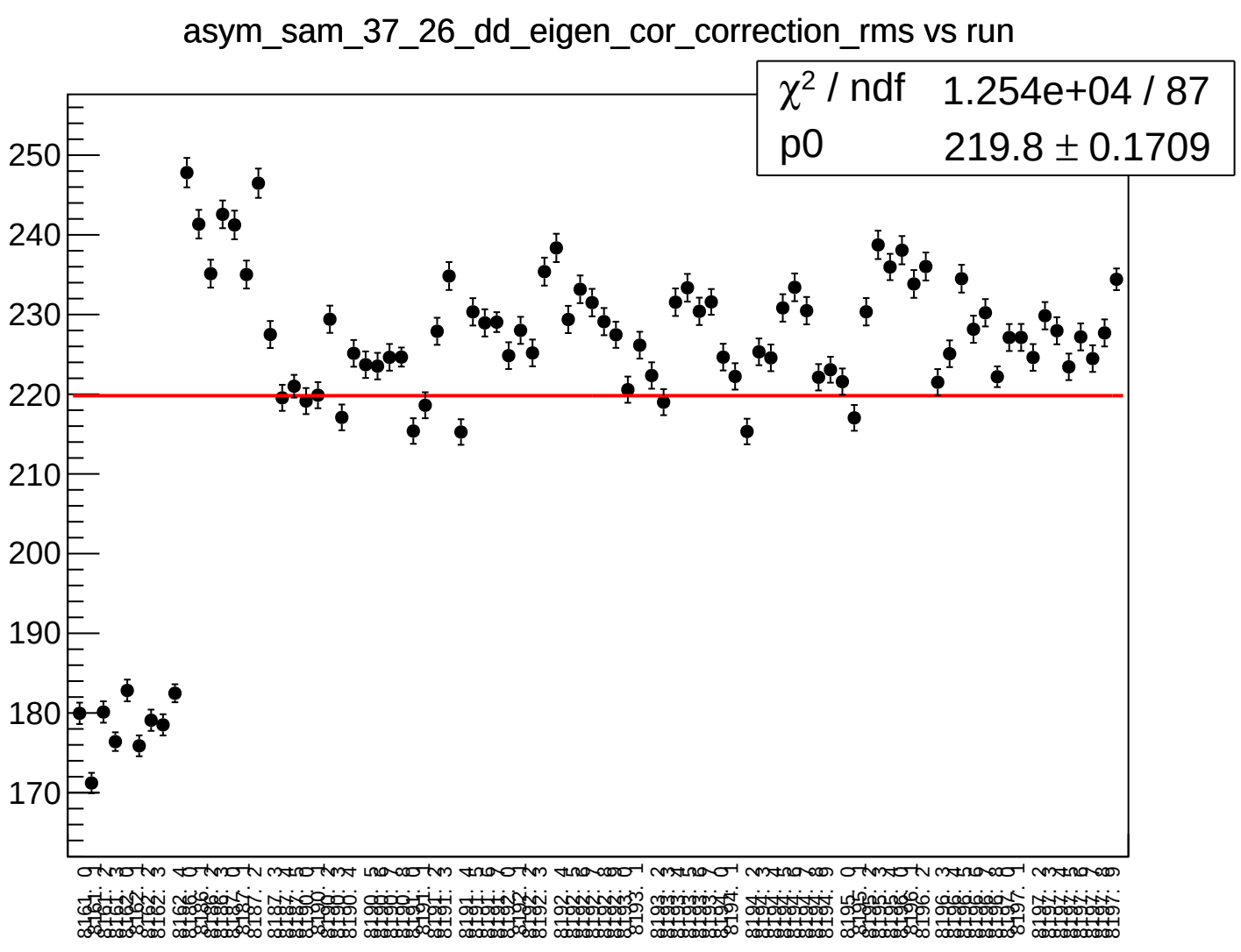

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 94.77 / 87
p0 88.39 ± 56.04
pull
Entries 88
Mean 212.3
Std Dev 0

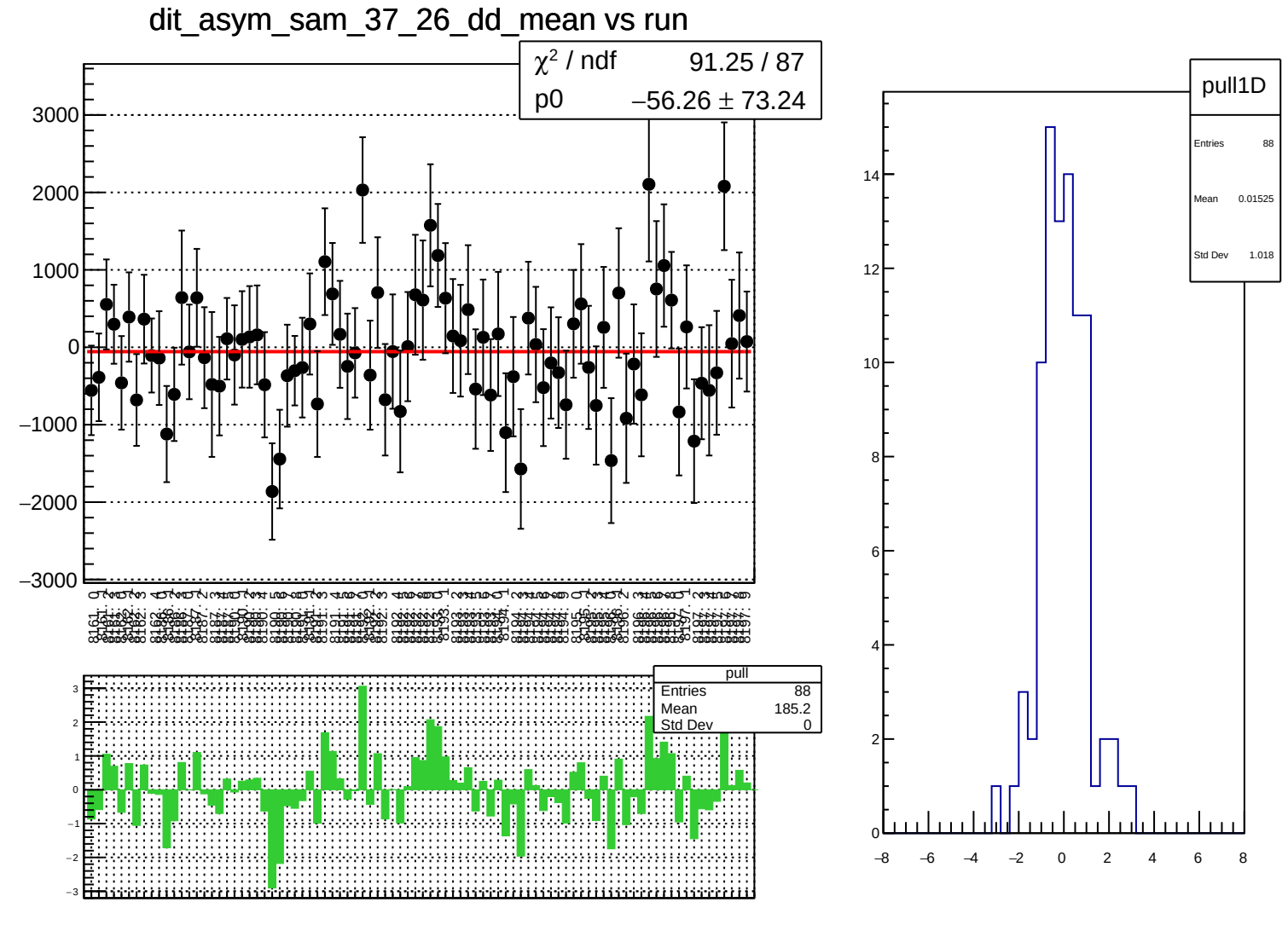

pull1D
Entries 88
Mean 0.01008
Std Dev 1.038

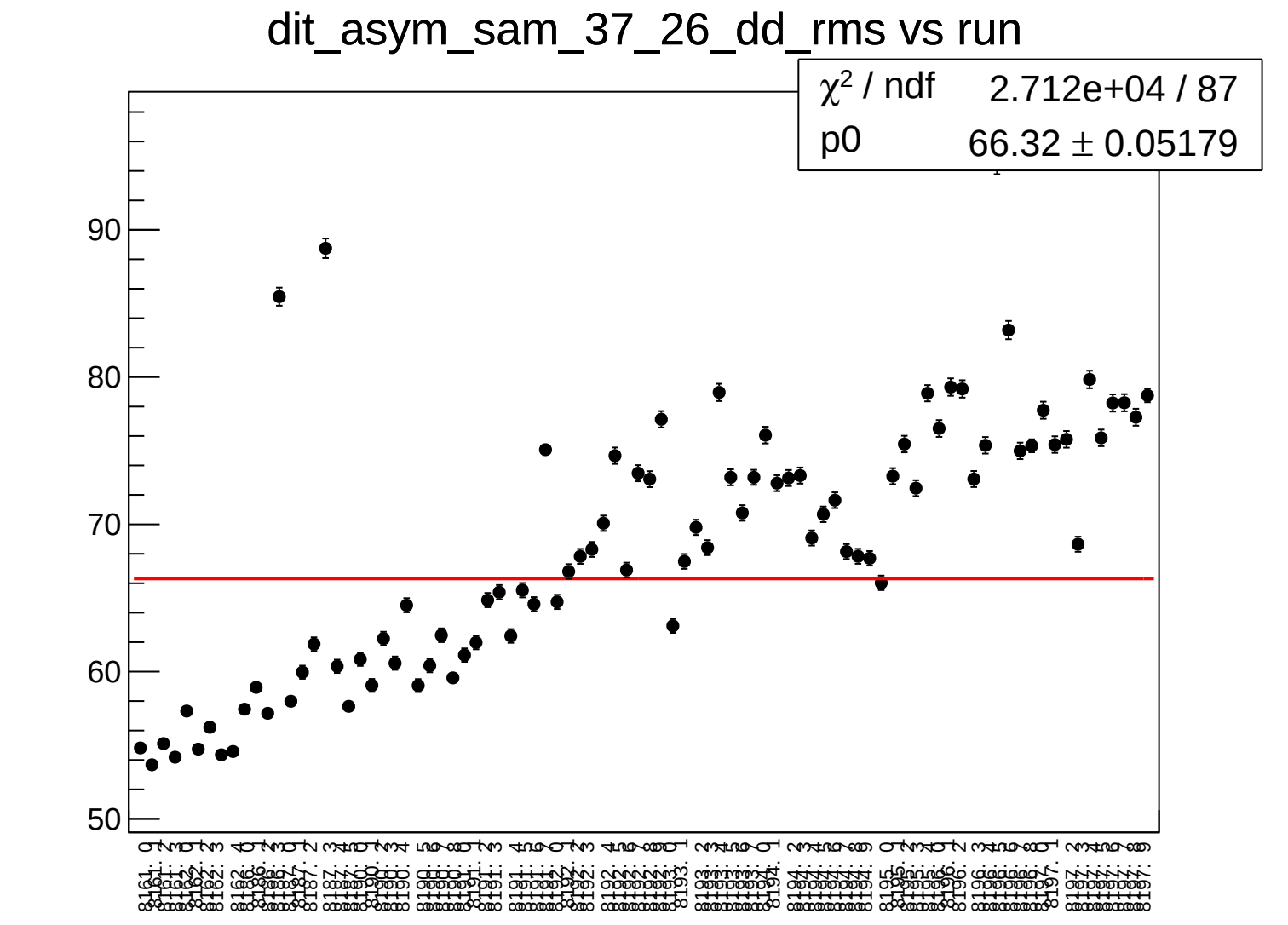

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.776e+04 / 87
p0 50.89 ± 0.03963
80
75
70
65
60
55
50
45
40

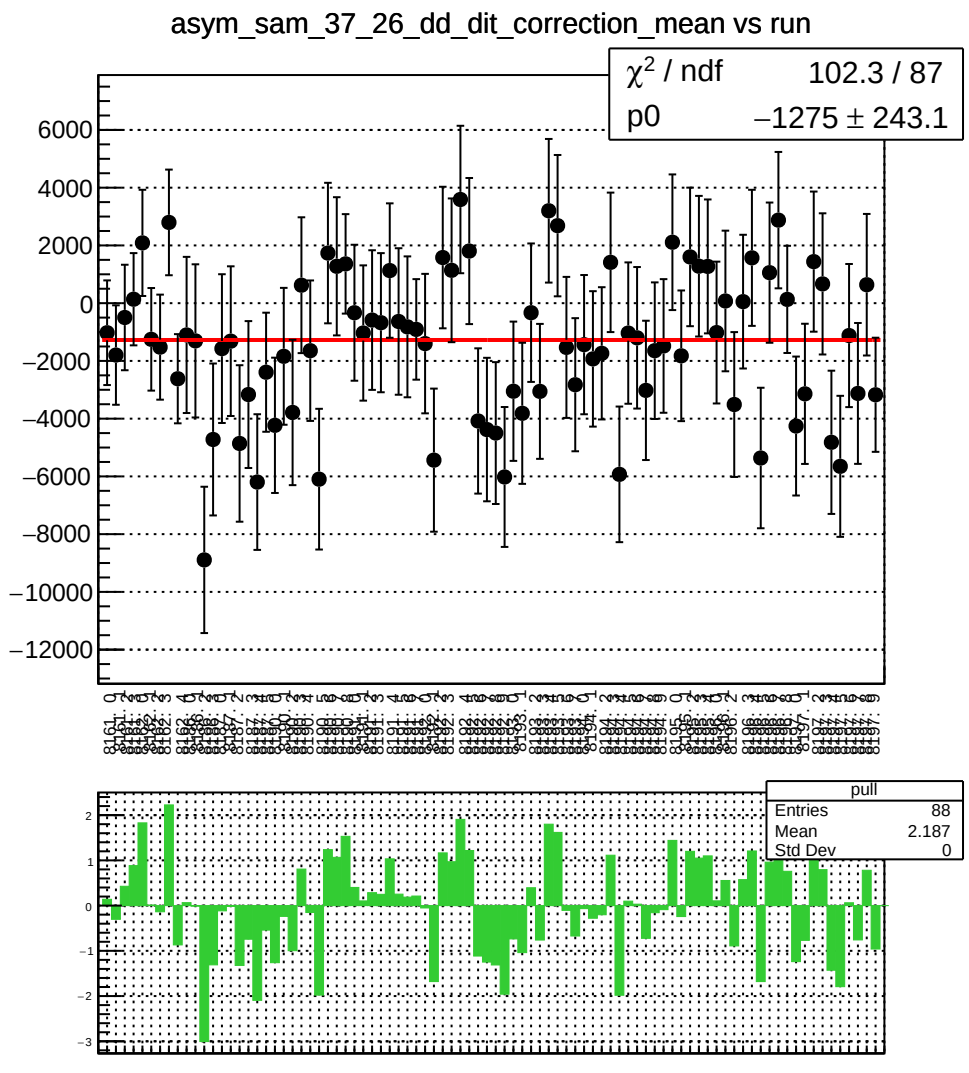

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.5 / 87
p0 −1178 ± 241.7
pull
Entries 88
Mean −3.082
Std Dev 0

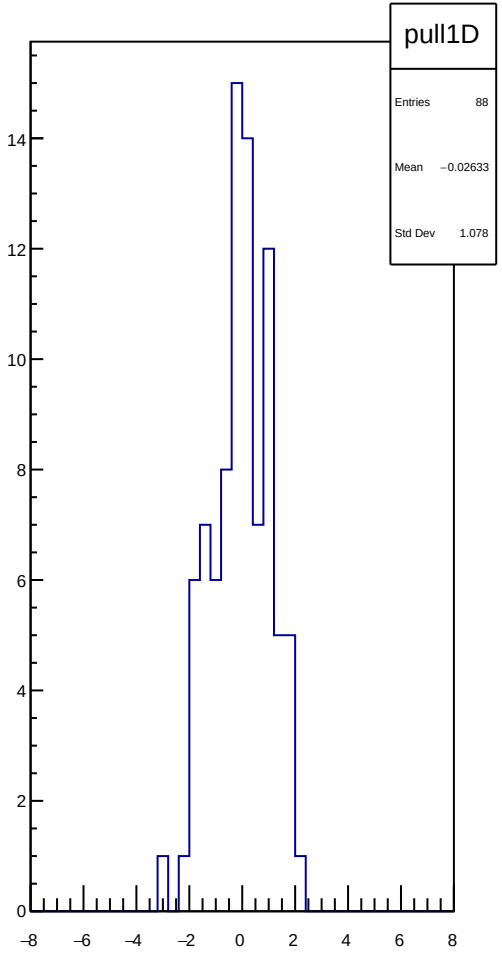

pull1D
Entries 88
Mean −0.01857
Std Dev 1.095

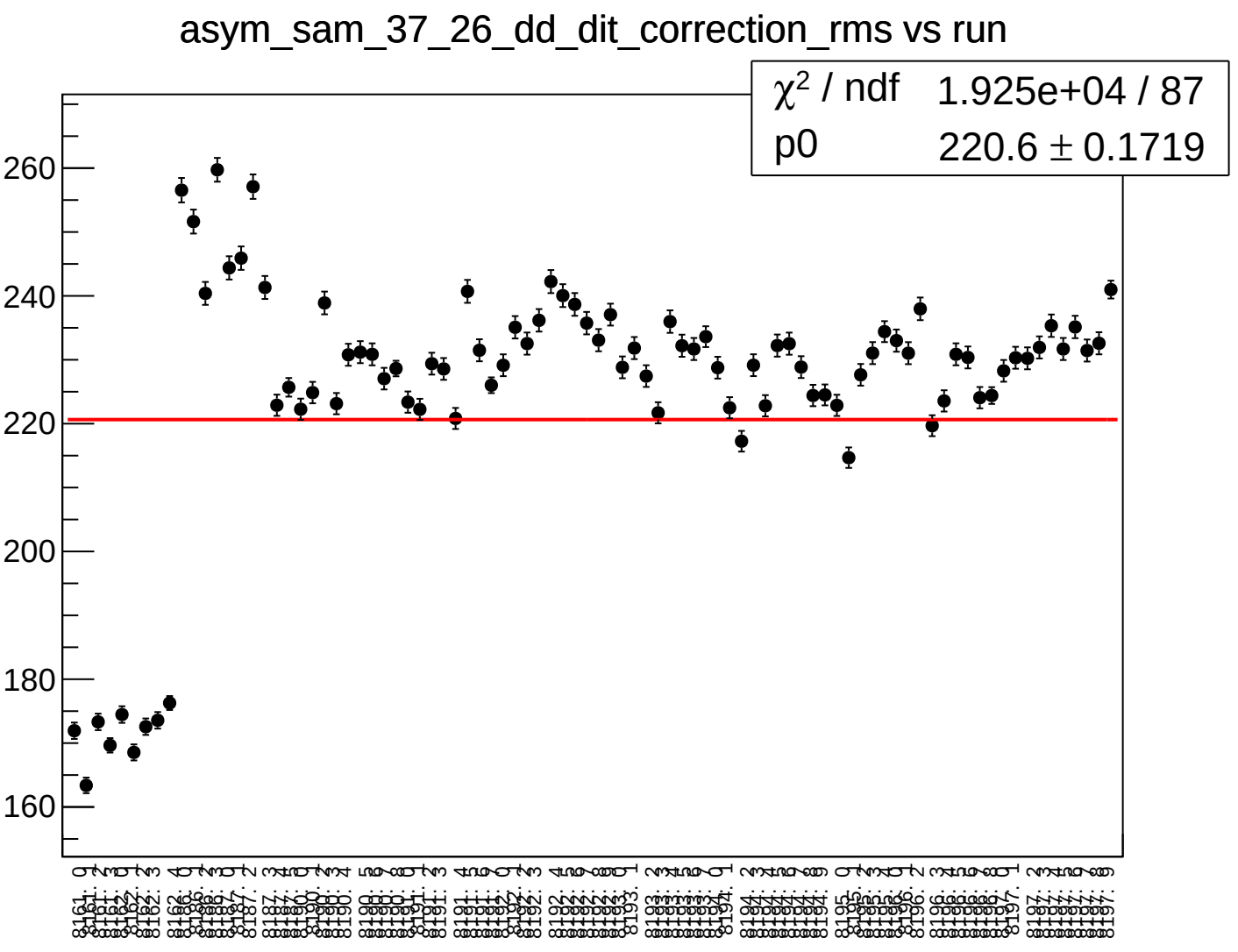

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.254e+04 / 87
p0 219.8 ± 0.1709
250
240
230
220
210
200
190
180
170

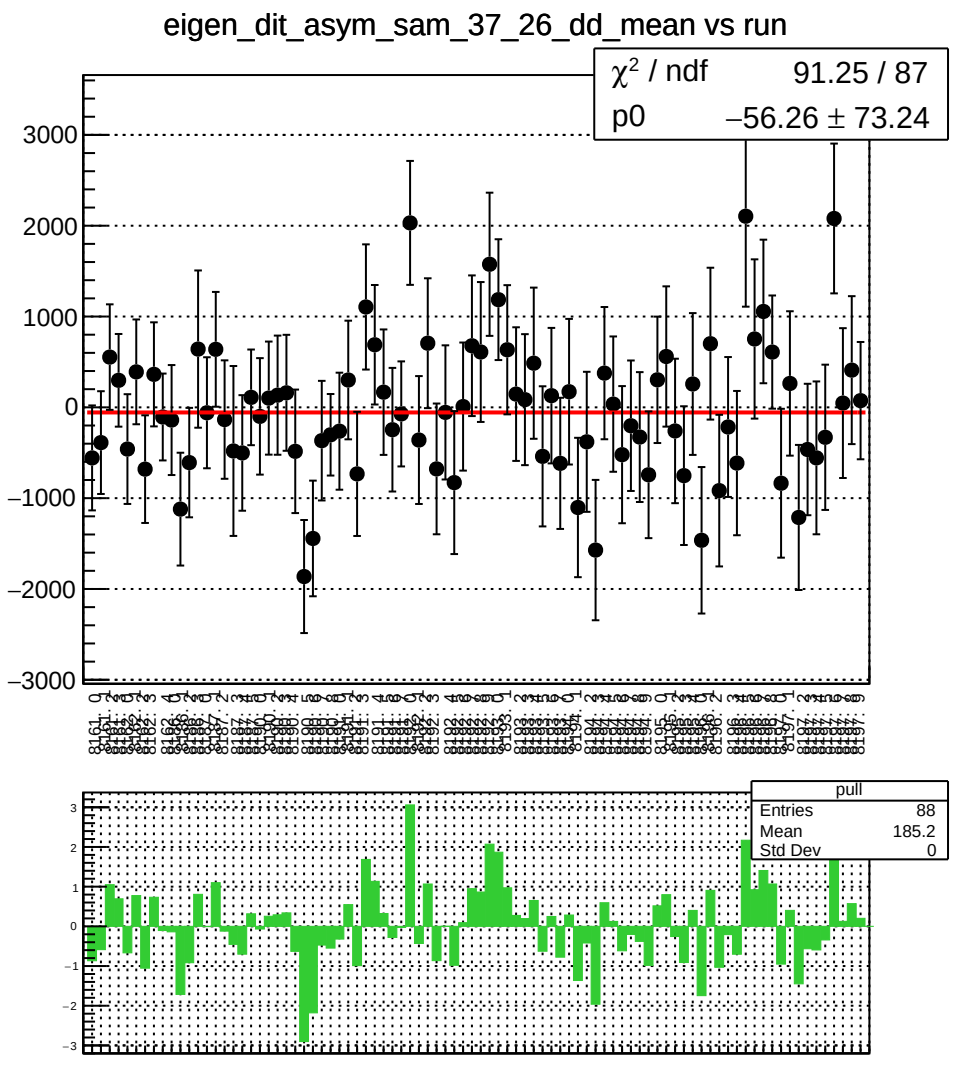

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 91.25 / 87
p0 −56.26 ± 73.24
pull
Entries 88
Mean 185.2
Std Dev 0
pull1D
Entries 88
Mean 0.01525
Std Dev 1.018

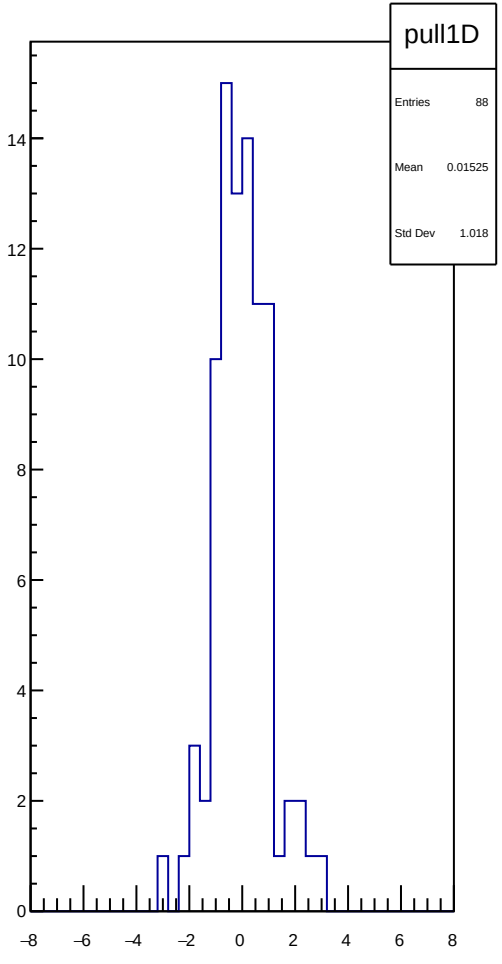

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.712e+04 / 87
p0 66.32 ± 0.05179
90
80
70
60
50

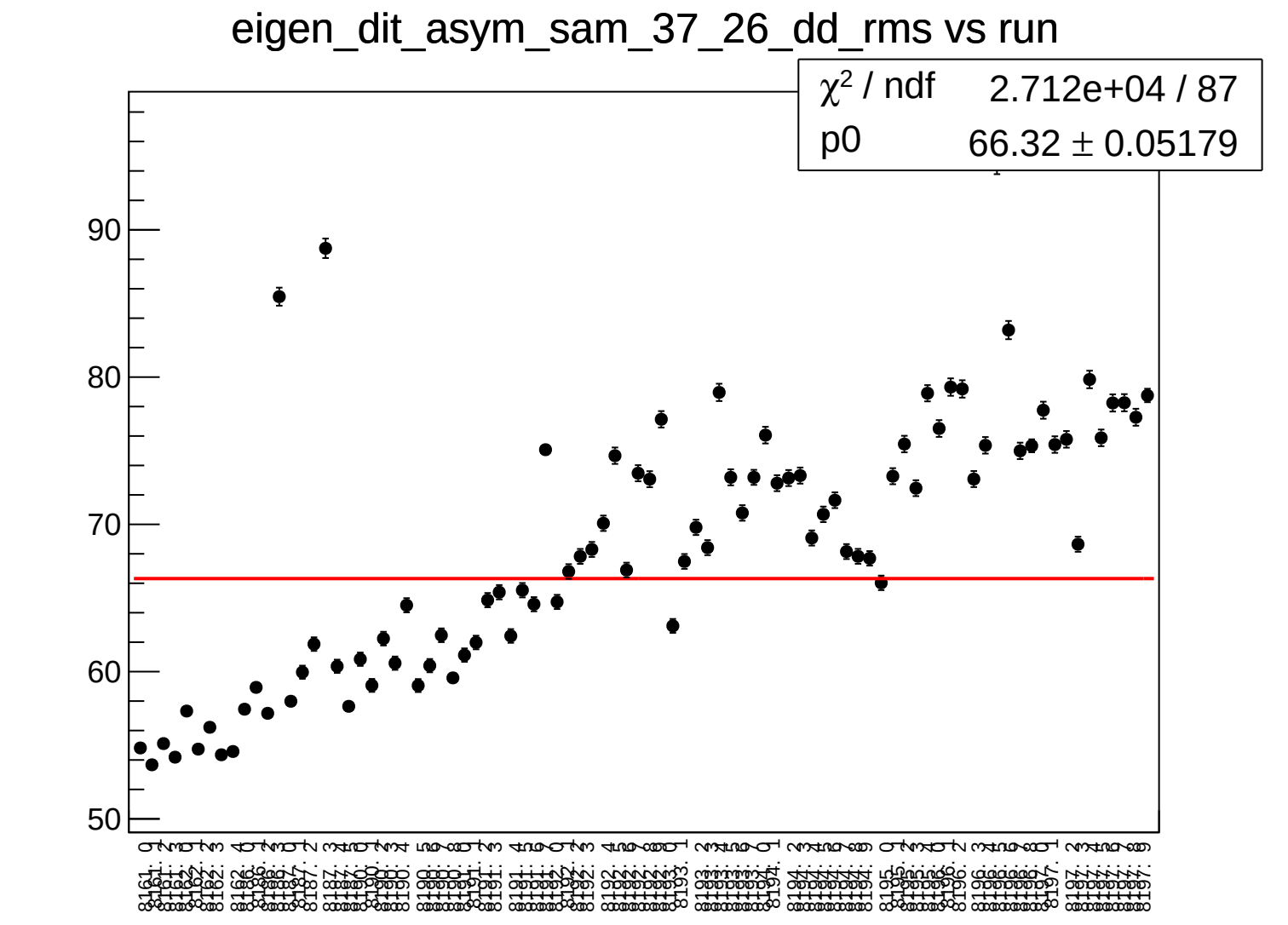

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 102.3 / 87
p0 −1275 ± 243.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 88
Mean 2.187
Std Dev 0
2
1
0
−1
−2
−3

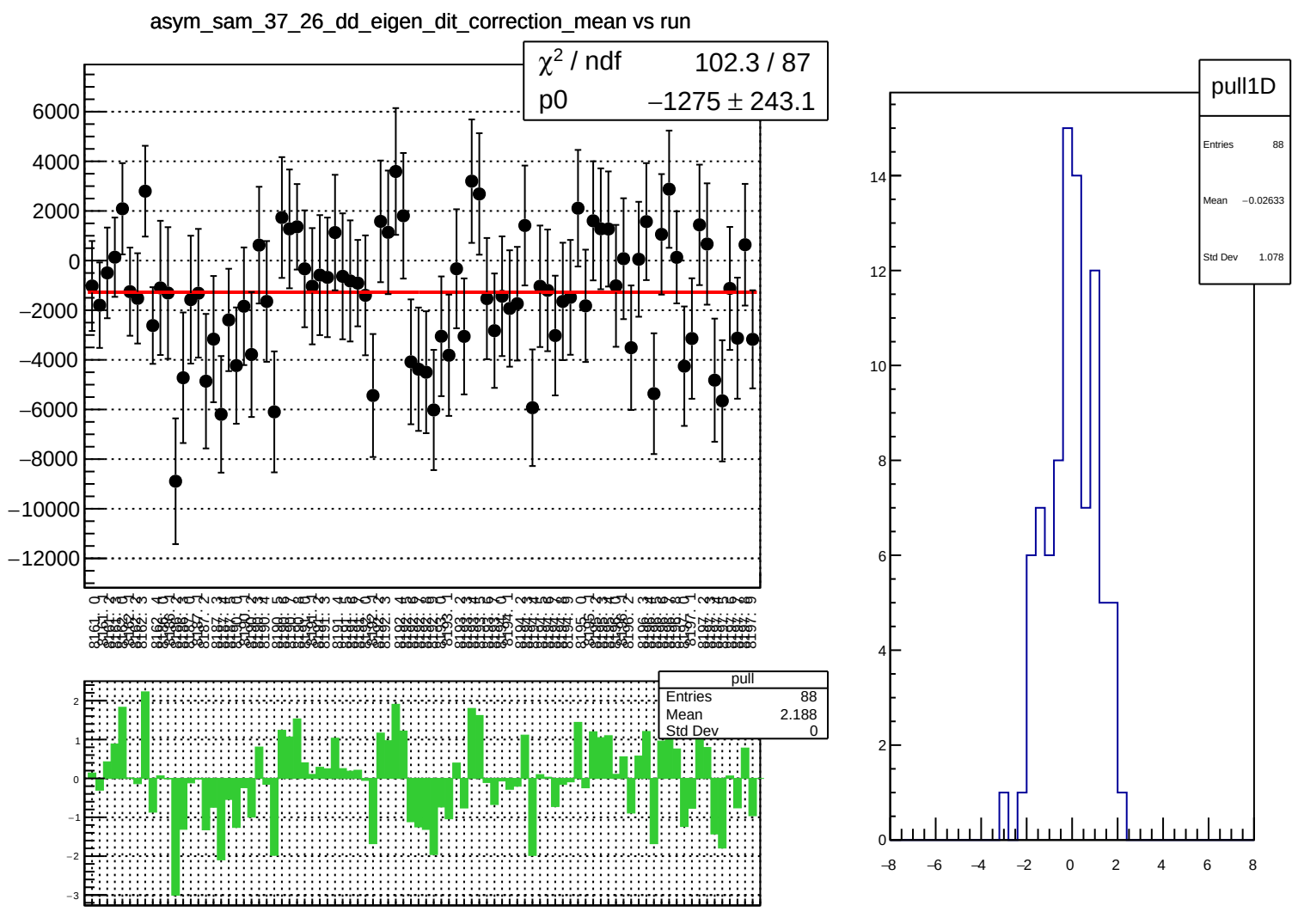

pull1D
Entries 88
Mean −0.02633
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

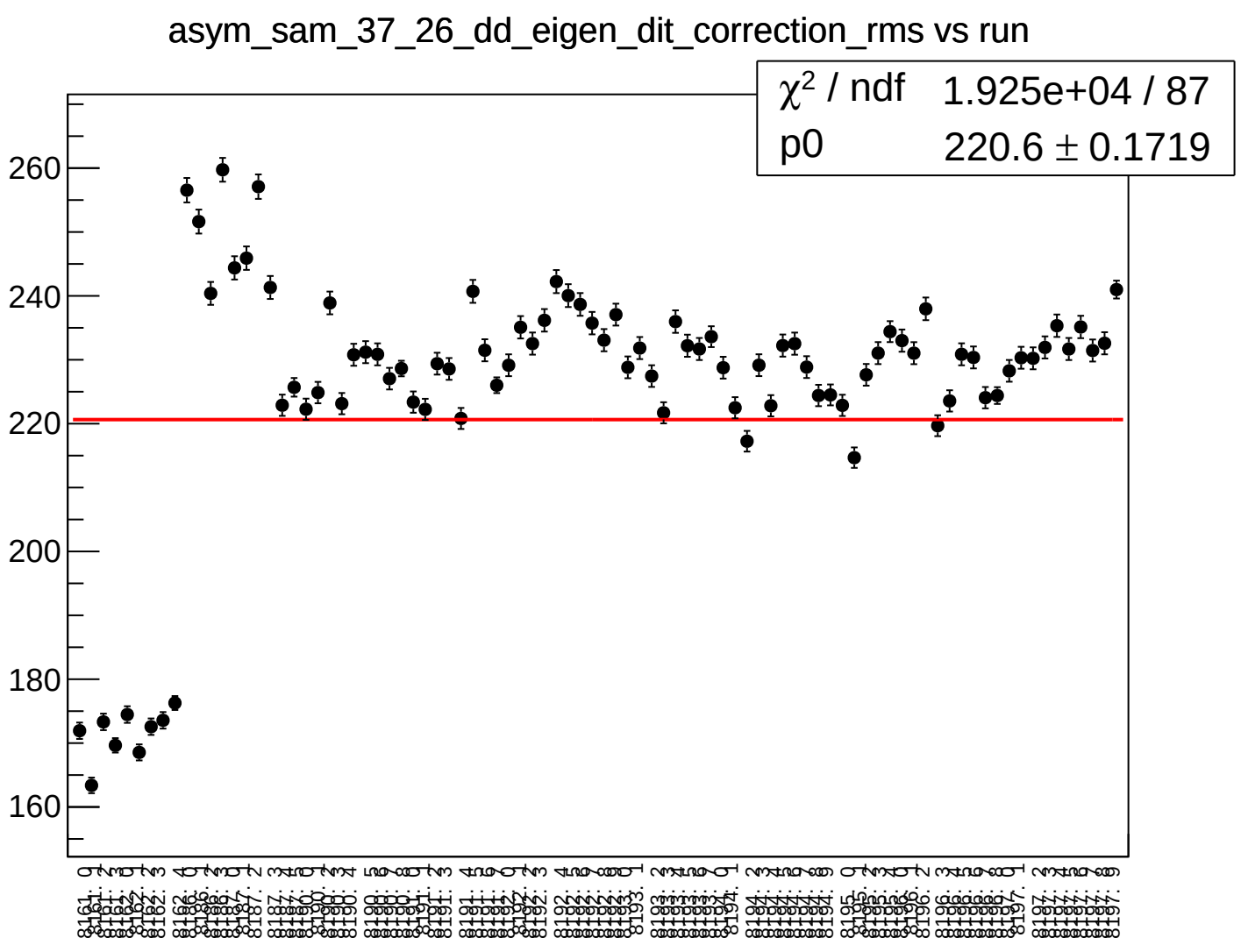

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.925e+04 / 87
p0 220.6 ± 0.1719
260
240
220
200
180
160

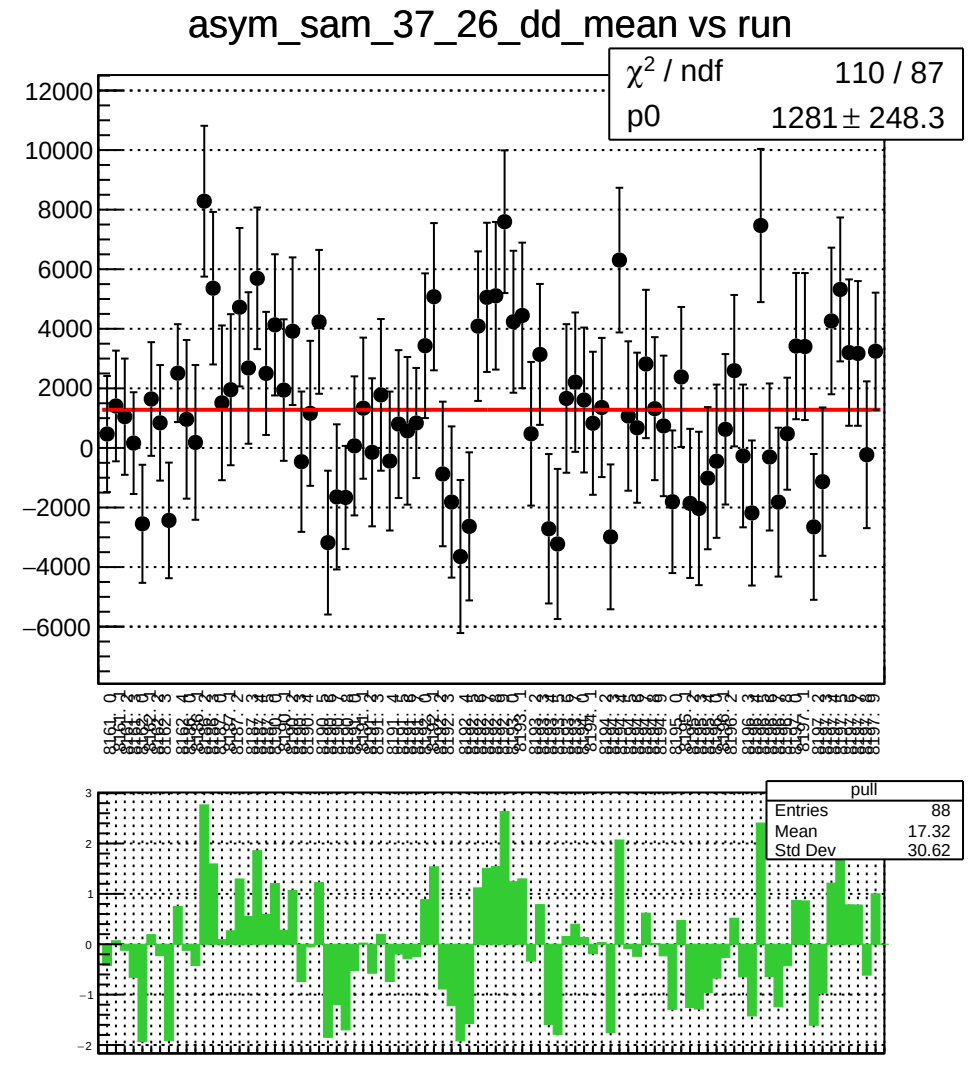

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 91.25 / 87
p0 −56.26 ± 73.24
pull
Entries 88
Mean 185.2
Std Dev 0

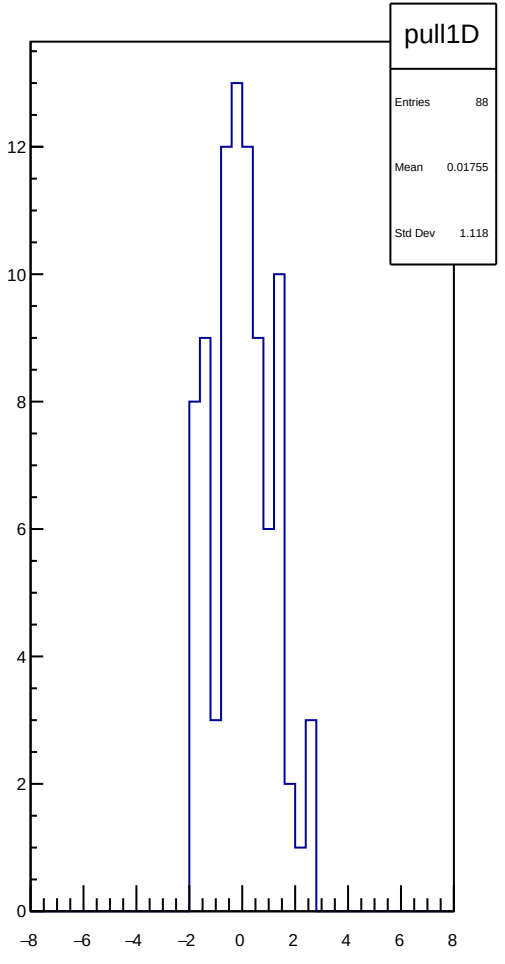

pull1D
Entries 88
Mean 0.01525
Std Dev 1.018


eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.712e+04 / 87
p0 66.32 ± 0.05179
90
80
70
60
50

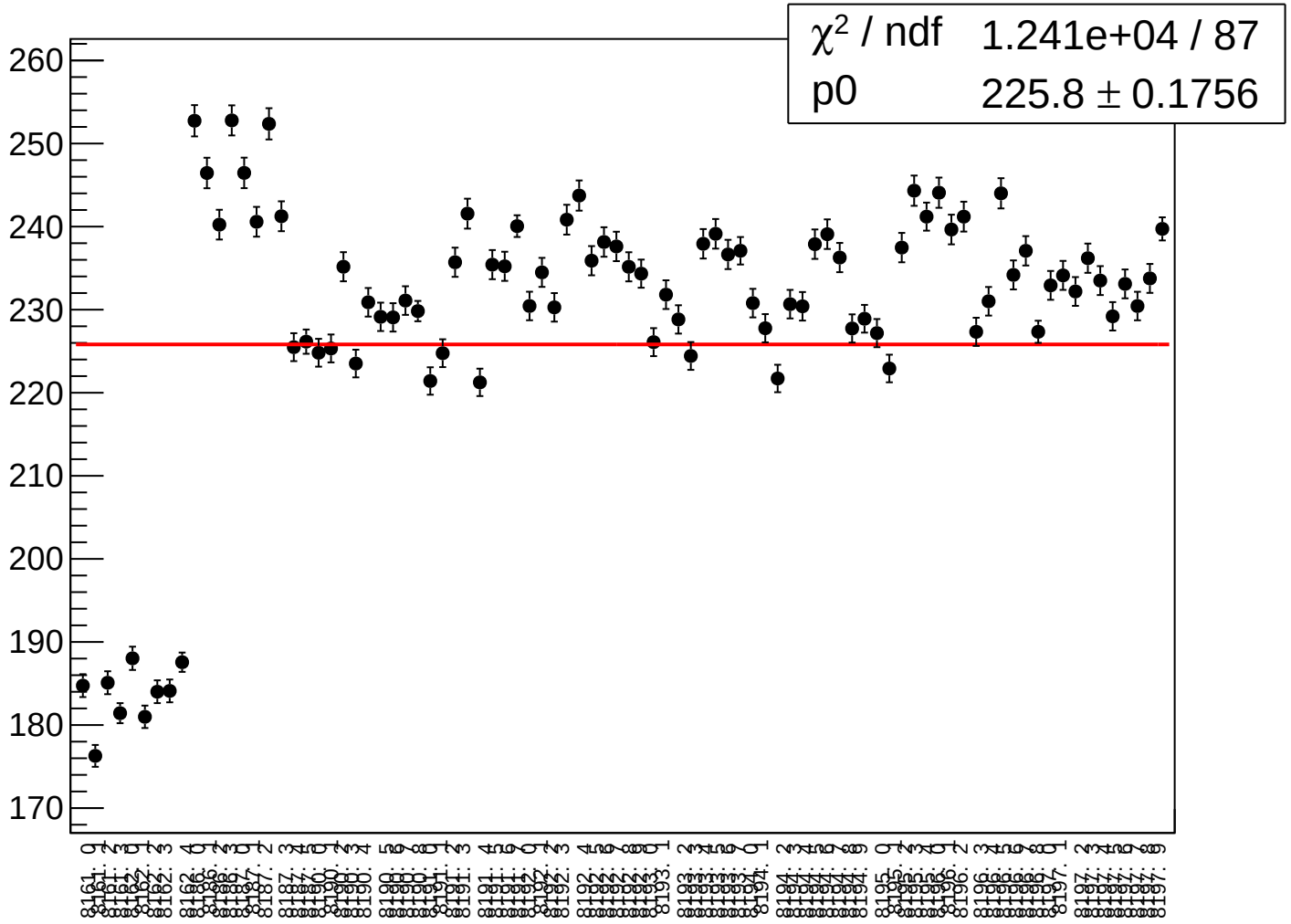

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.3 / 87
p0 −1275 ± 243.1
pull
Entries 88
Mean 2.188
Std Dev 0
pull1D
Entries 88
Mean −0.02633
Std Dev 1.078

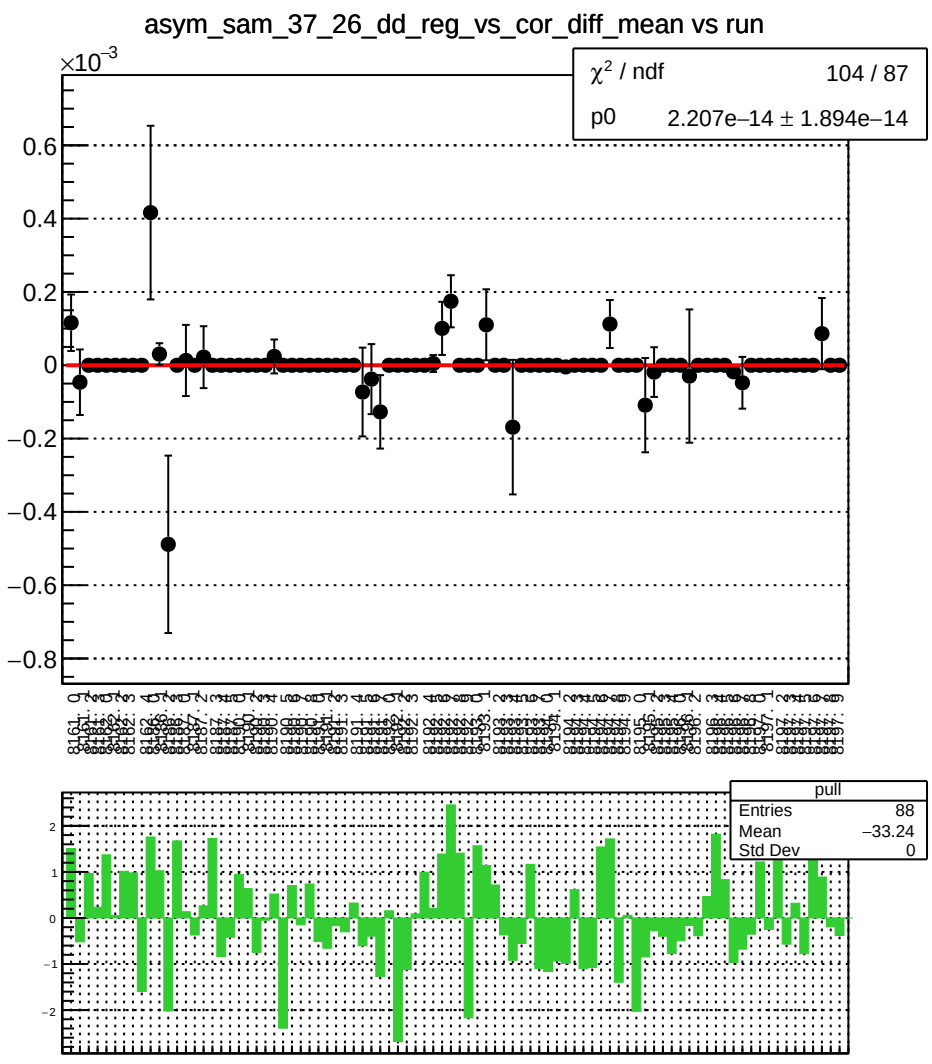

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.925e+04 / 87
p0 220.6 ± 0.1719
260
240
220
200
180
160

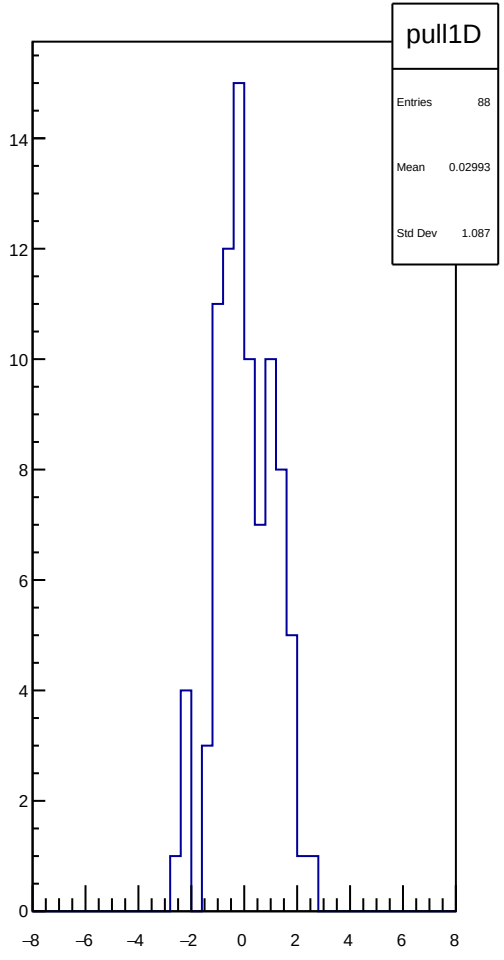

asym_sam_37_26_dd_mean vs run
χ² / ndf 110 / 87
p0 1281 ± 248.3
pull
Entries 88
Mean 17.32
Std Dev 30.62

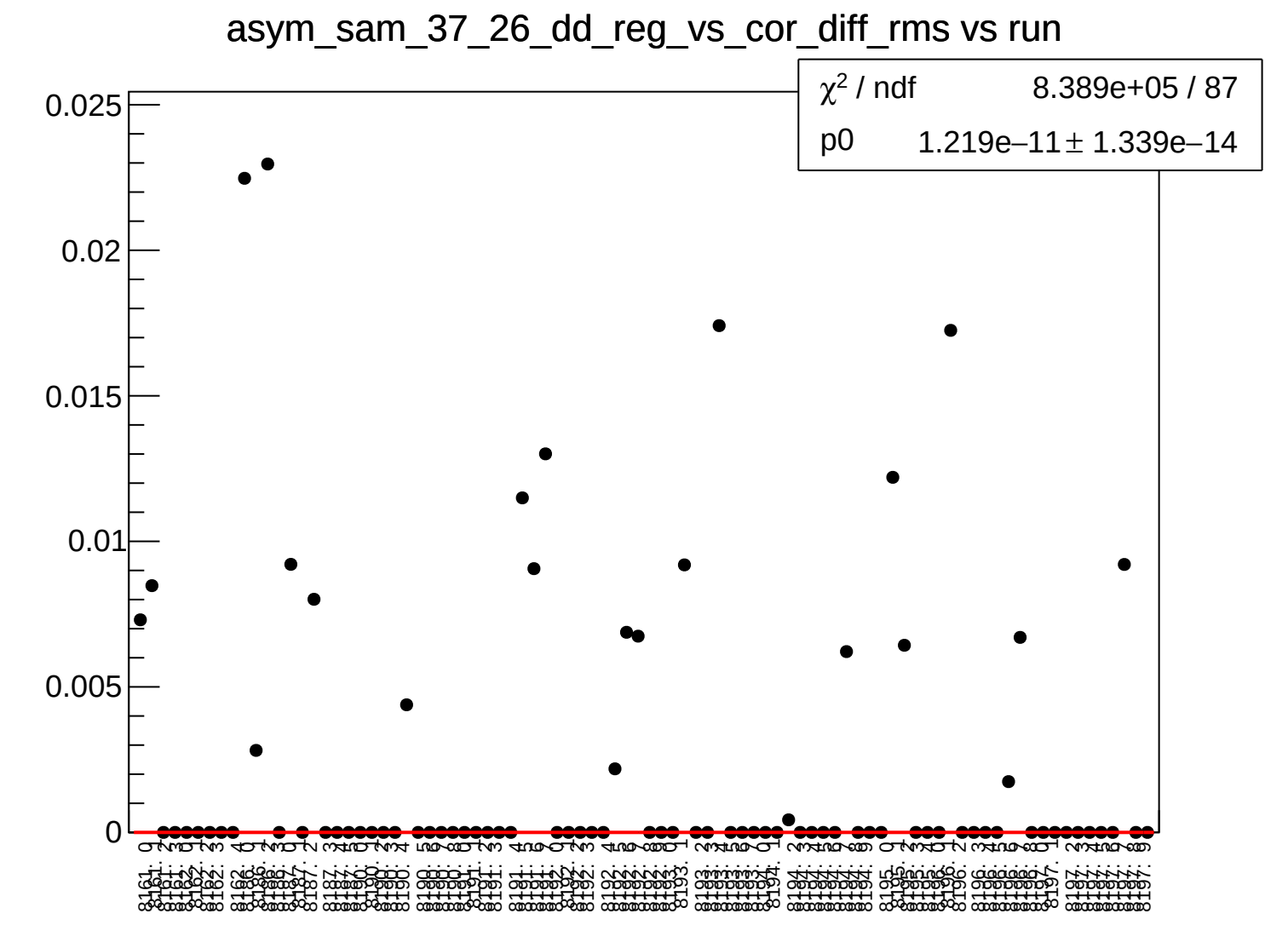

pull1D
Entries 88
Mean 0.01755
Std Dev 1.118

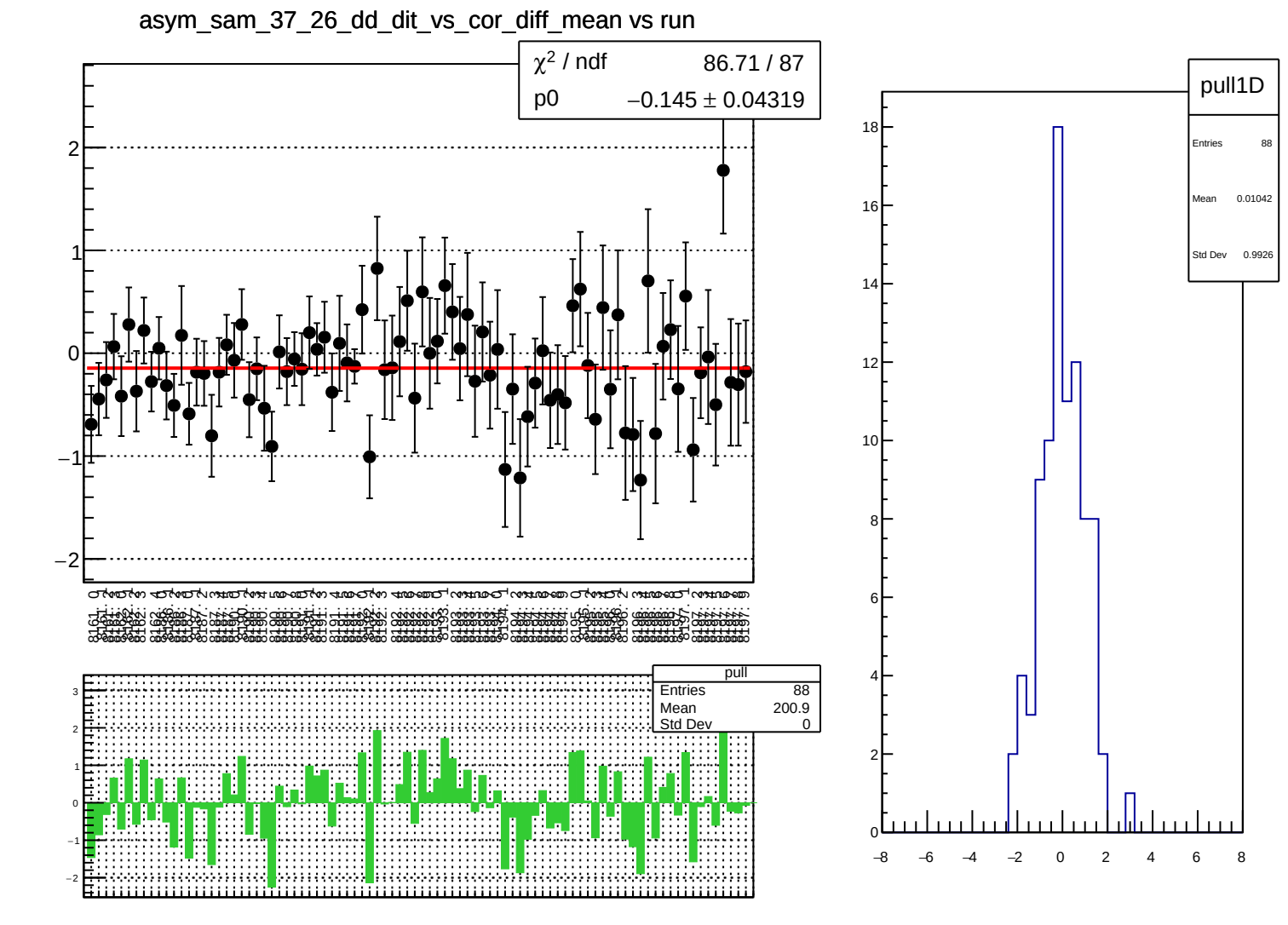
asym_sam_37_26_dd_rms vs run

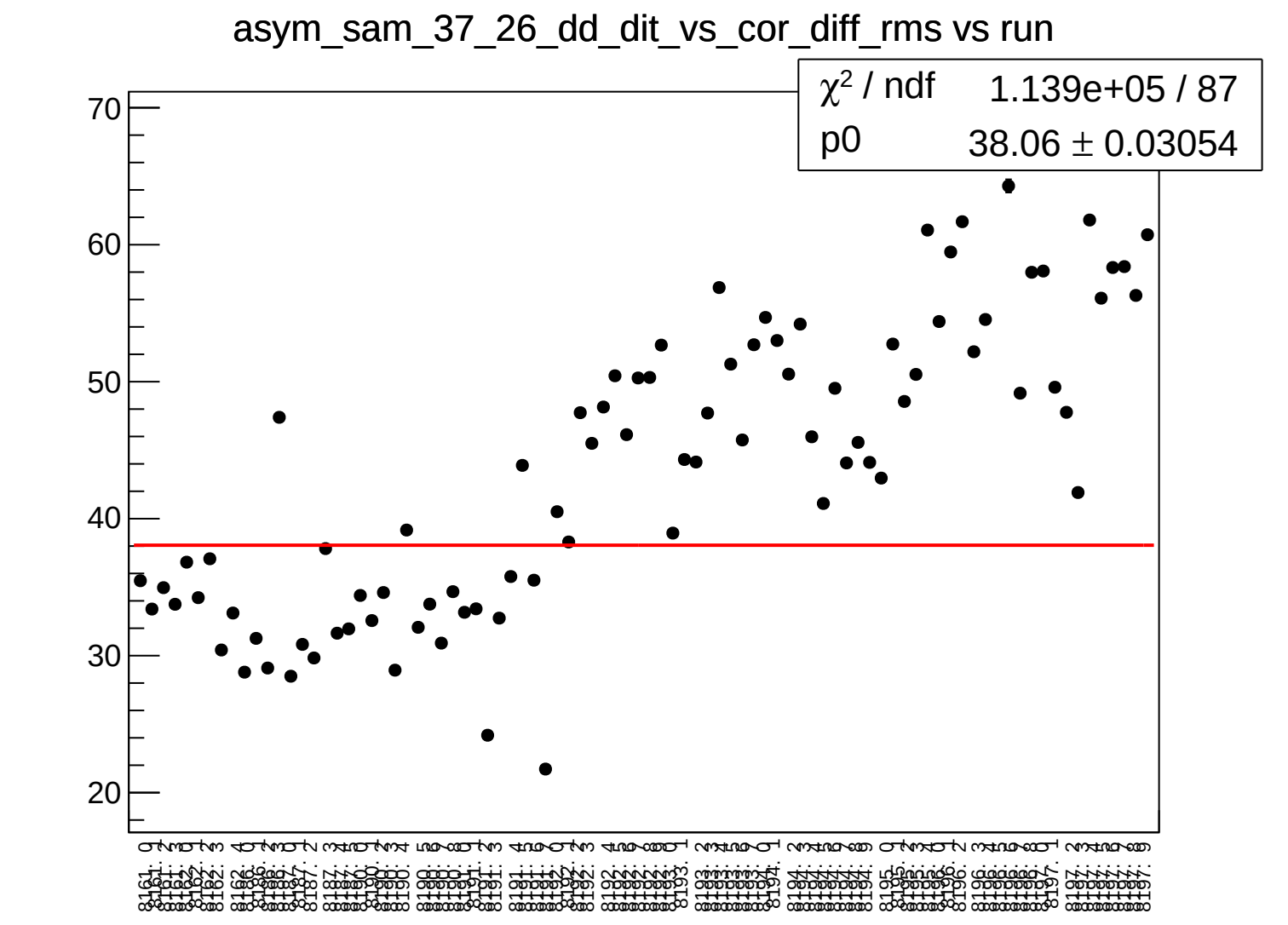


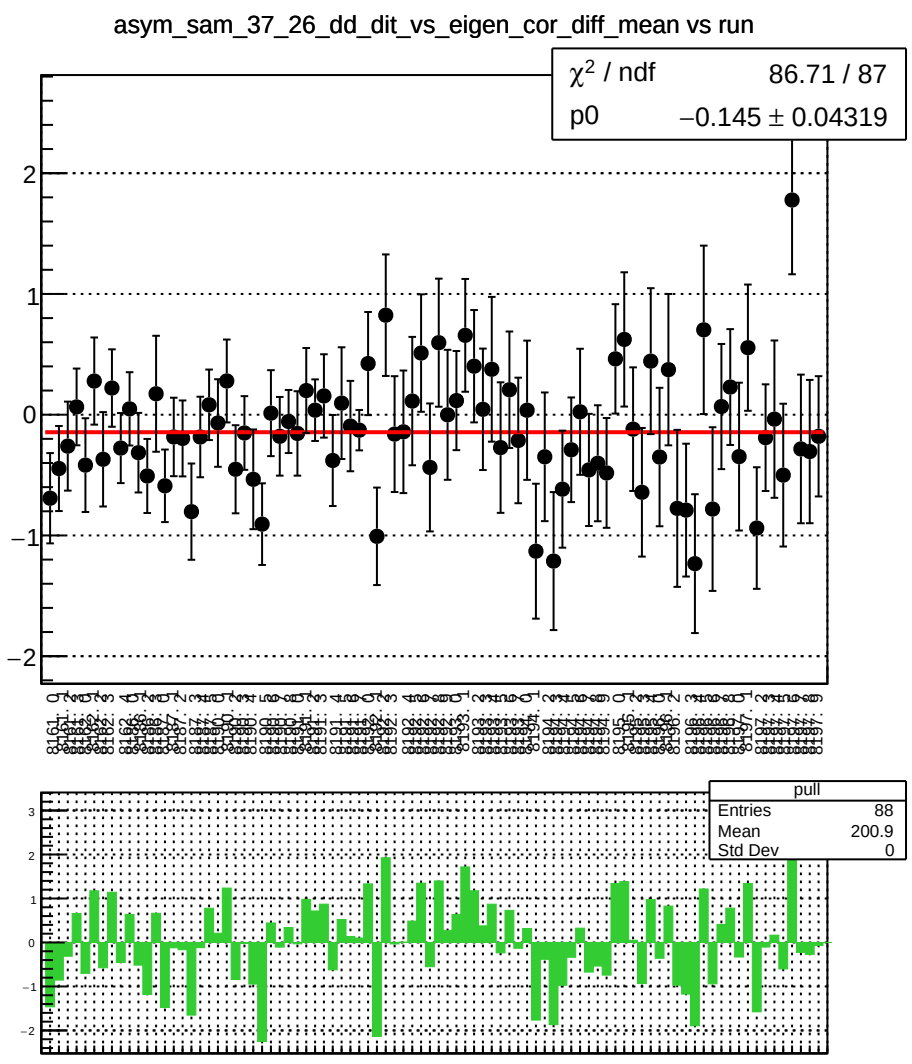

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 104 / 87
p0 2.207e−14 ± 1.894e−14
pull
Entries 88
Mean −33.24
Std Dev 0

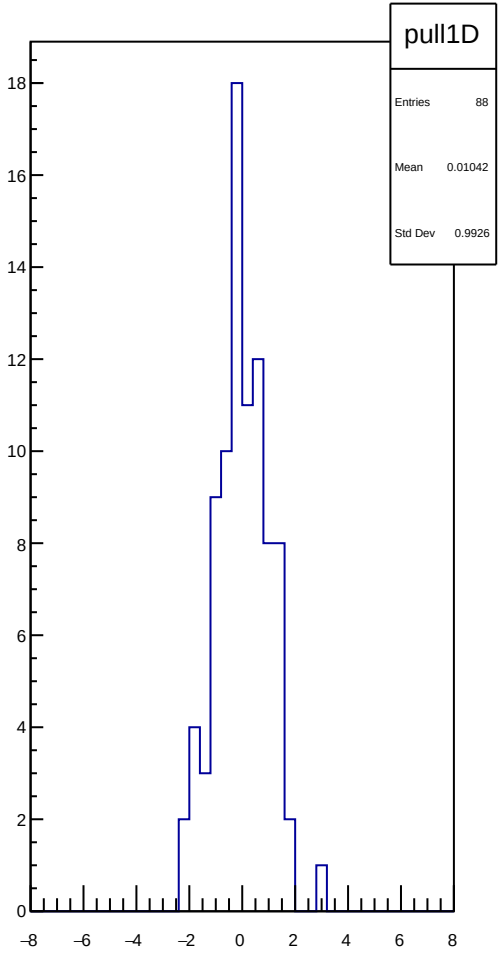

pull1D
Entries 88
Mean 0.02993
Std Dev 1.087

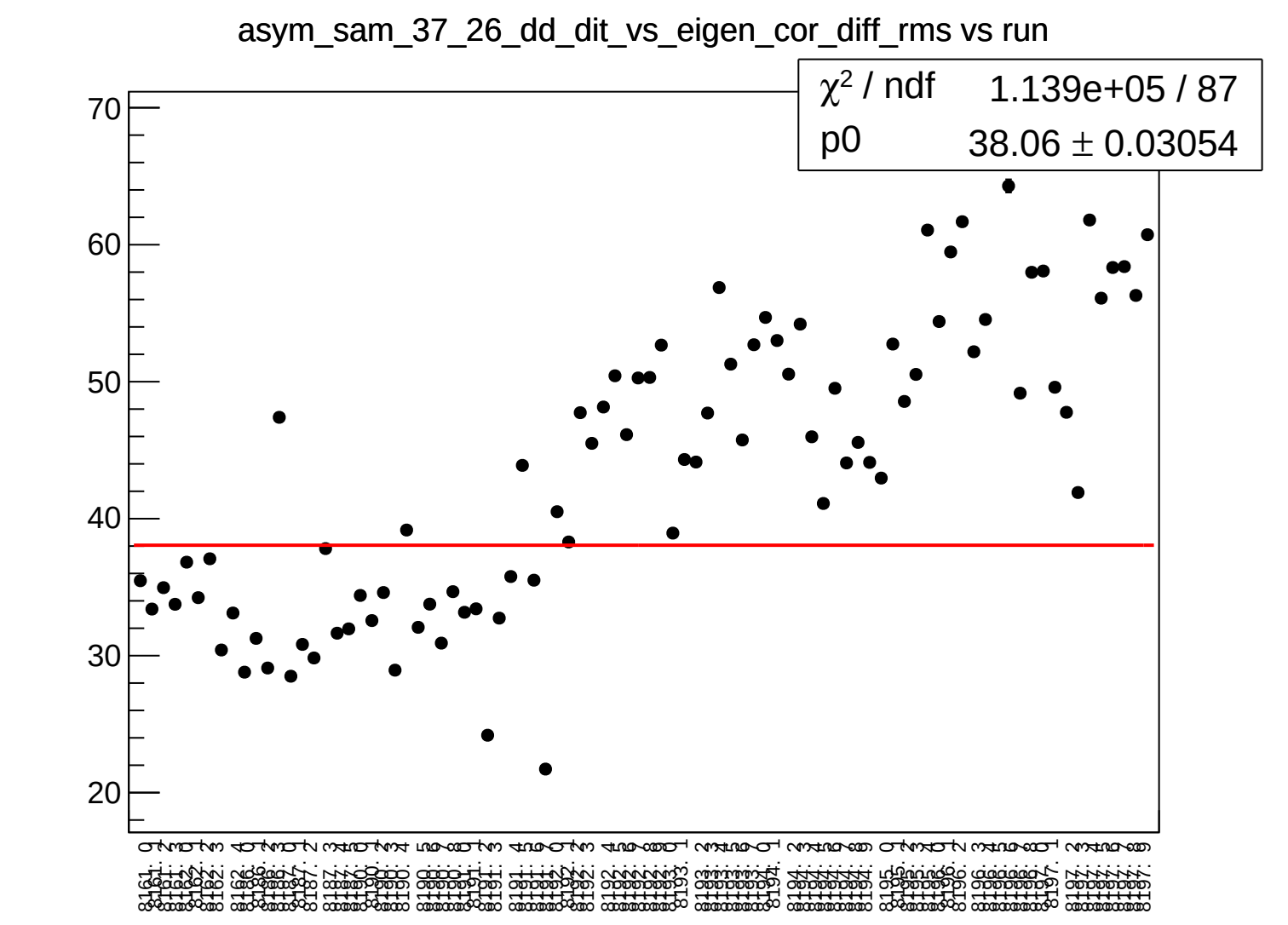

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.389e+05 / 87
p0 1.219e−11 ± 1.339e−14
0.025
0.02
0.015
0.01
0.005
0

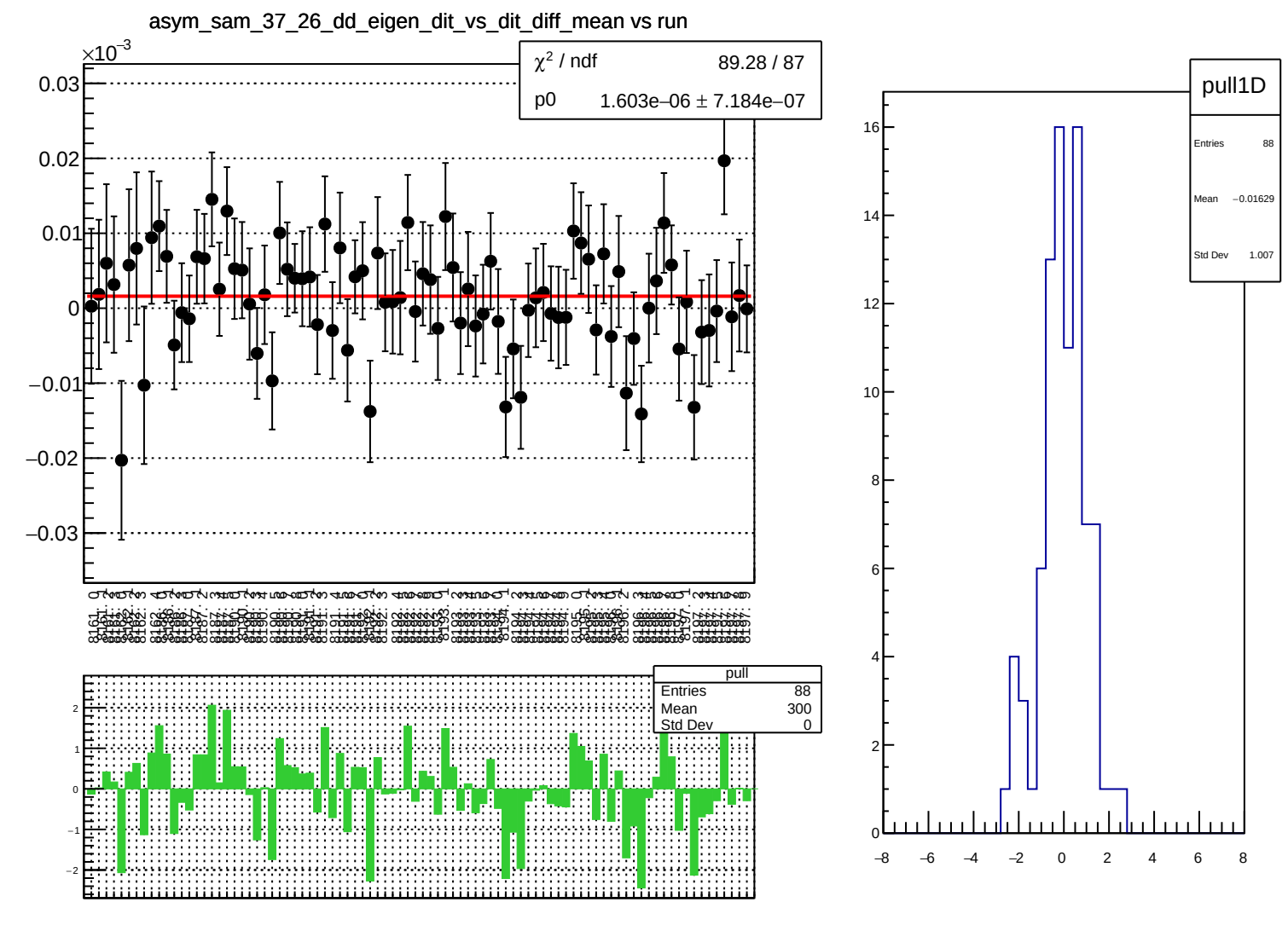

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.71 / 87
p0 −0.145 ± 0.04319
pull
Entries 88
Mean 200.9
Std Dev 0
pull1D
Entries 88
Mean 0.01042
Std Dev 0.9926

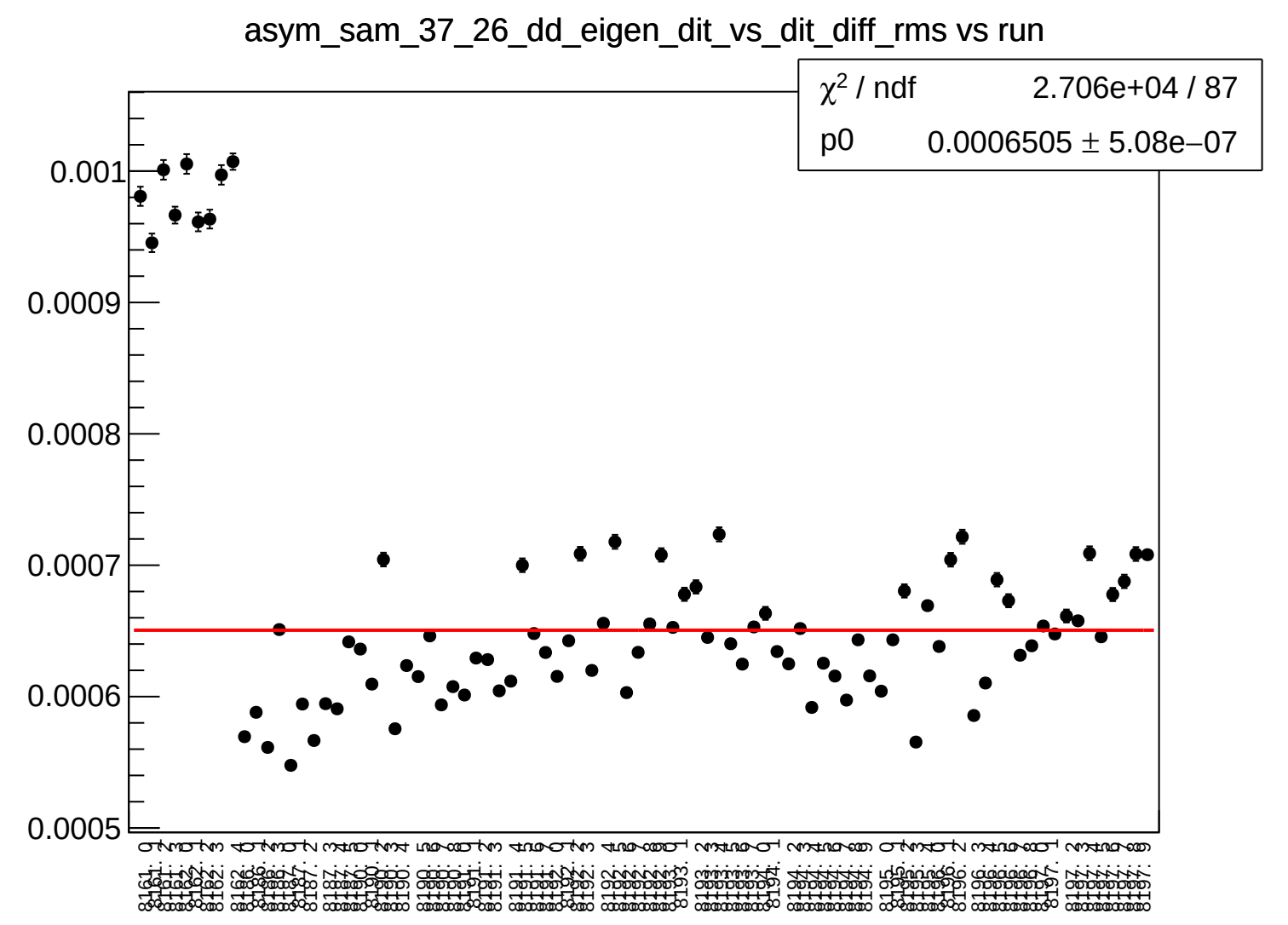

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.139e+05 / 87
p0 38.06 ± 0.03054
70
60
50
40
30
20

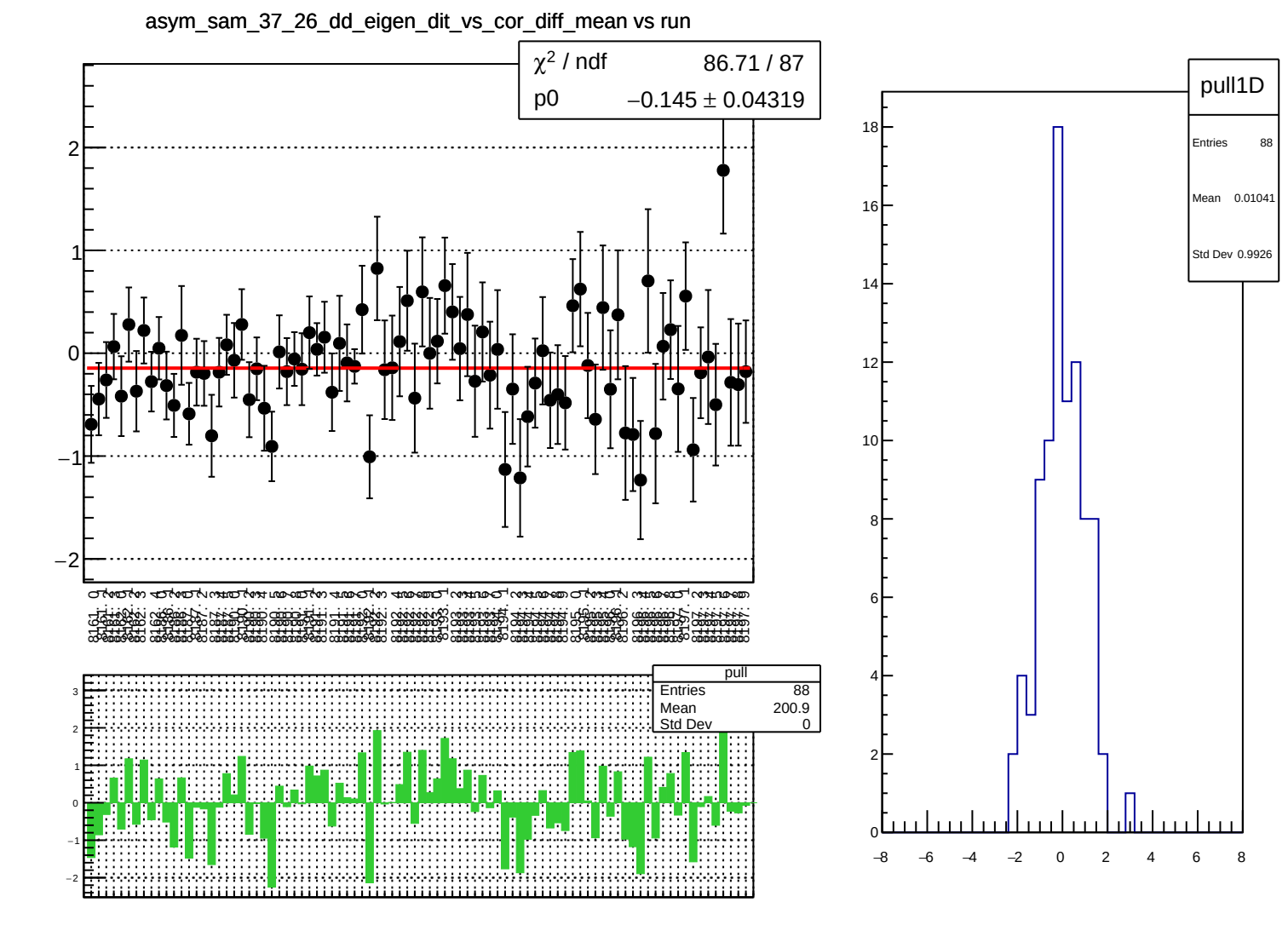

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.71 / 87
p0 −0.145 ± 0.04319
pull
Entries 88
Mean 200.9
Std Dev 0

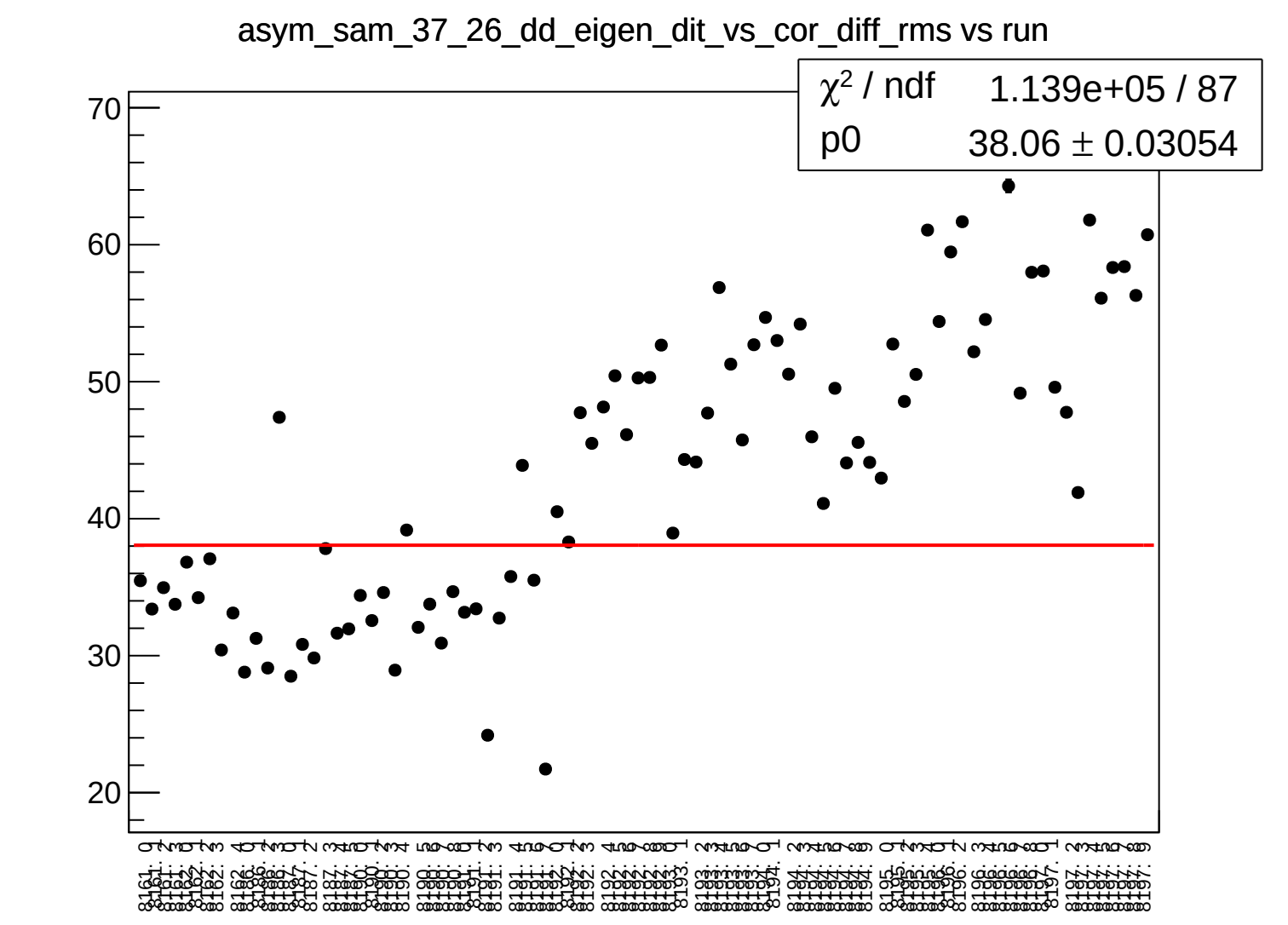

pull1D
Entries 88
Mean 0.01042
Std Dev 0.9926


asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.139e+05 / 87
p0 38.06 ± 0.03054
70
60
50
40
30
20

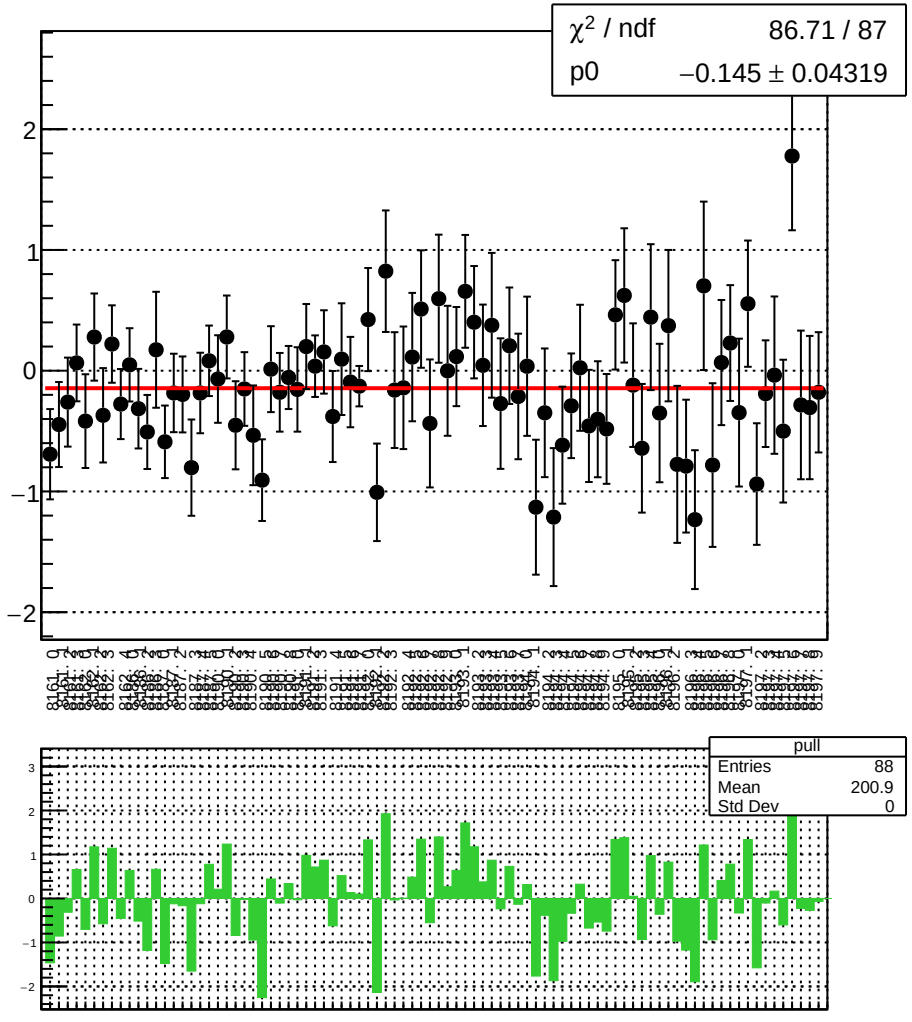

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.28 / 87
p0 1.603e−06 ± 7.184e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 300
Std Dev 0
pull1D
Entries 88
Mean −0.01629
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

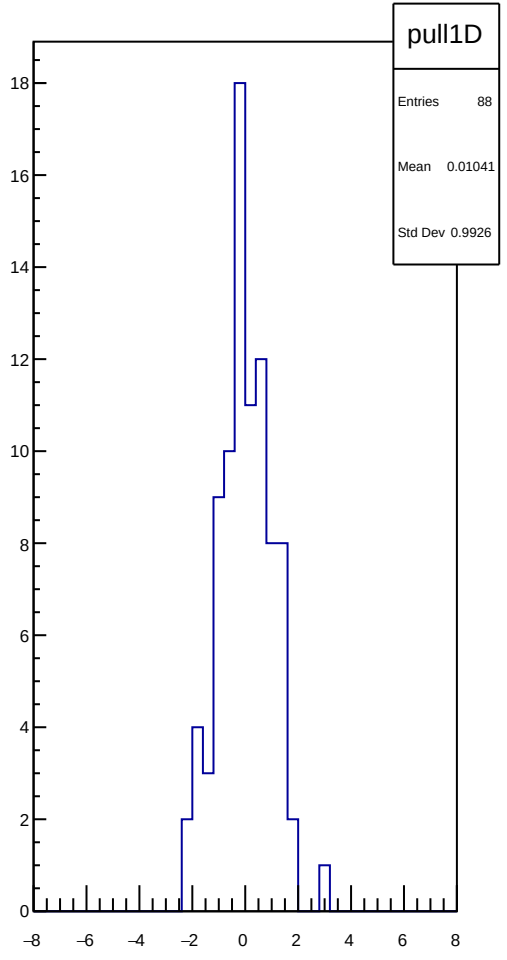

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.706e+04 / 87
p0 0.0006505 ± 5.08e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

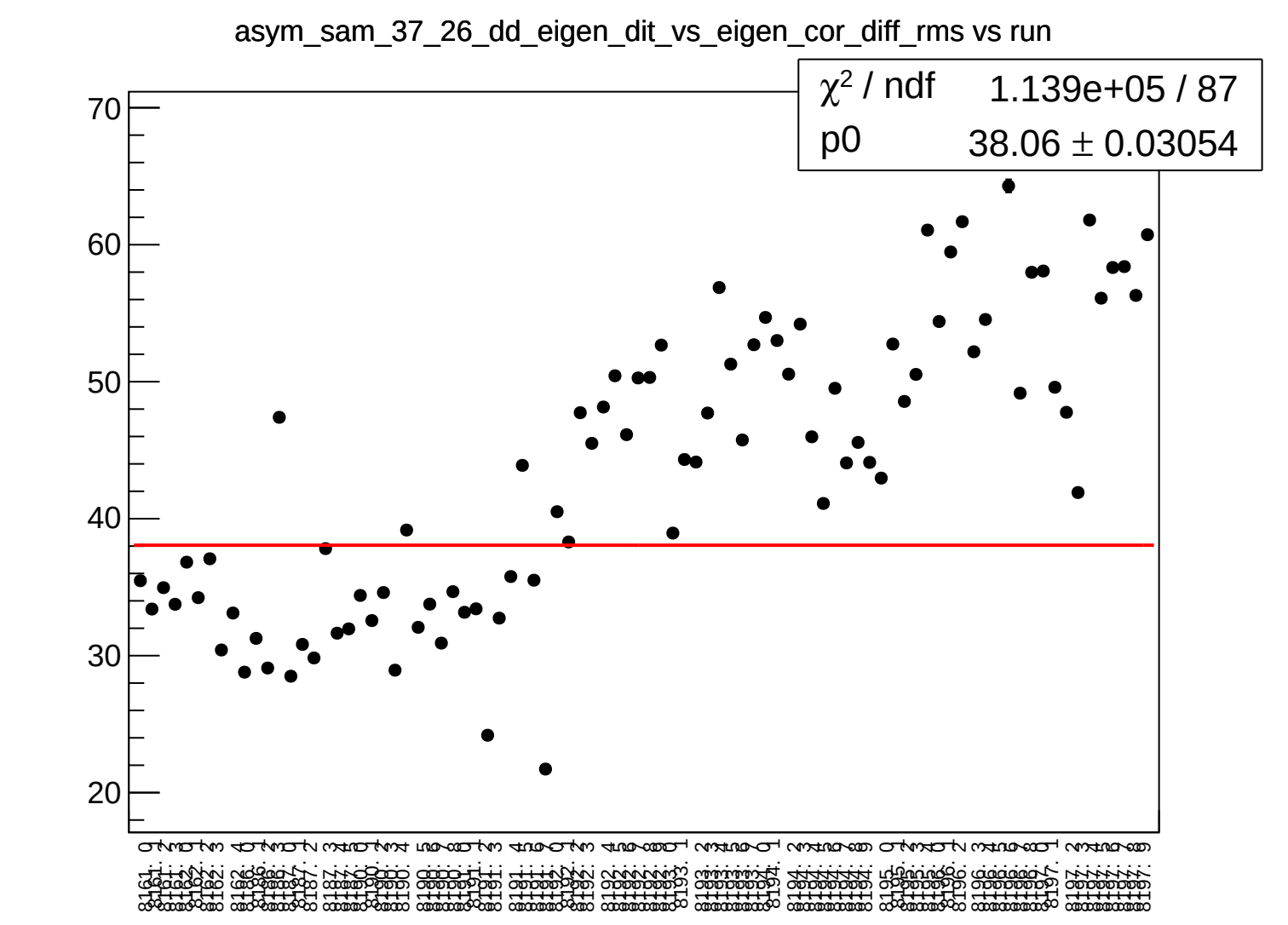

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.71 / 87
p0 −0.145 ± 0.04319
pull
Entries 88
Mean 200.9
Std Dev 0
pull1D
Entries 88
Mean 0.01041
Std Dev 0.9926

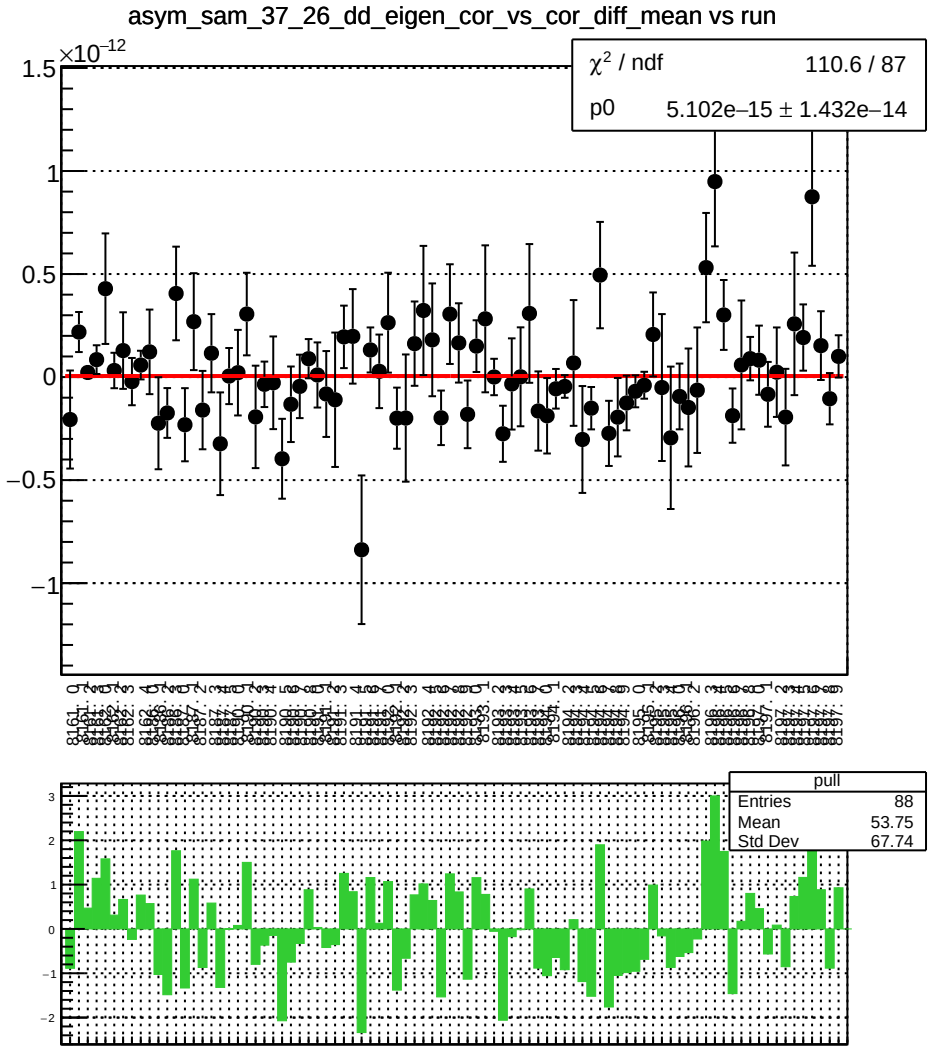

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.139e+05 / 87
p0 38.06 ± 0.03054
70
60
50
40
30
20

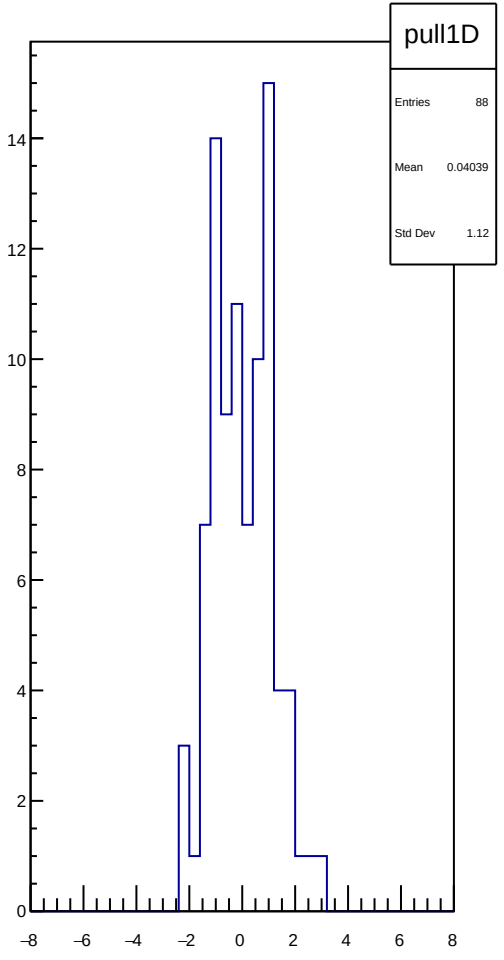
asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

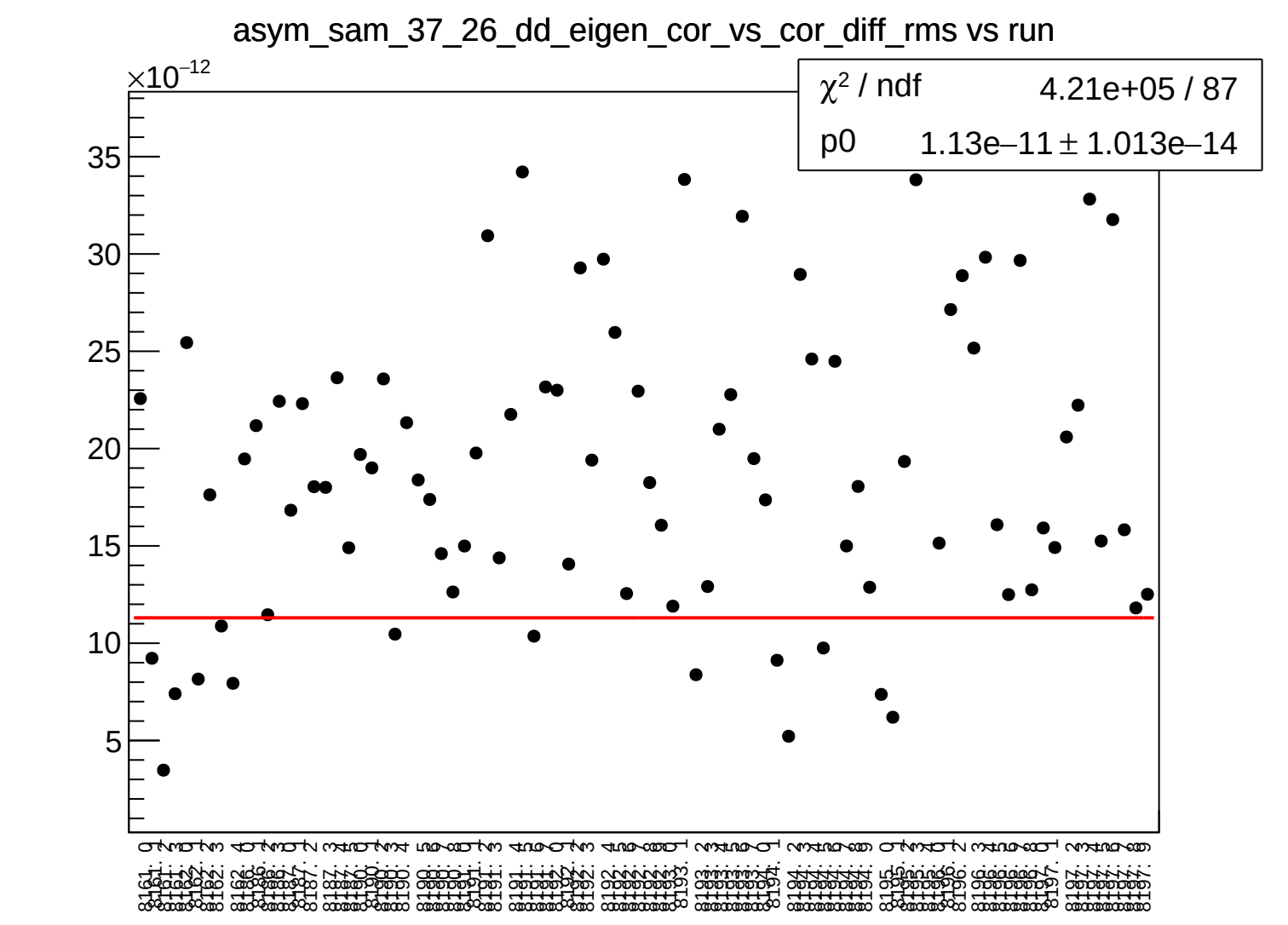


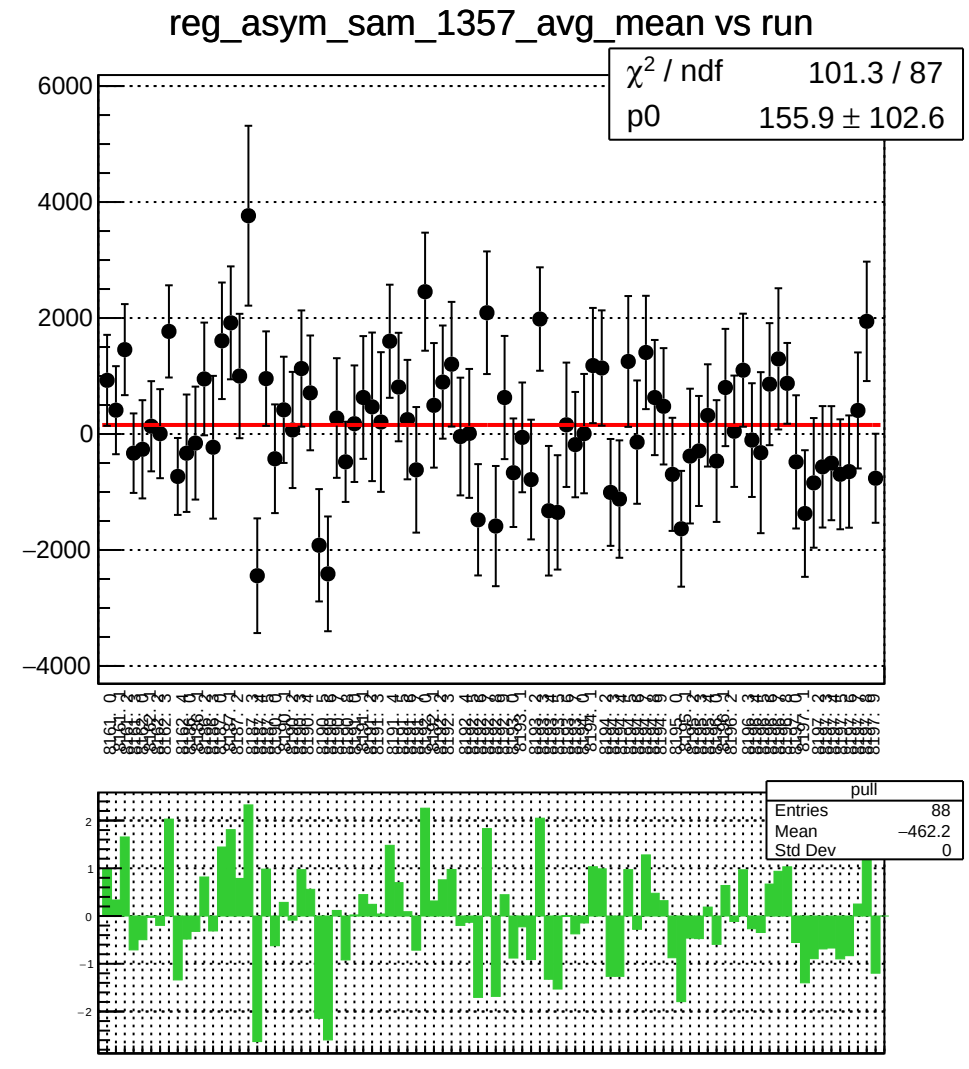


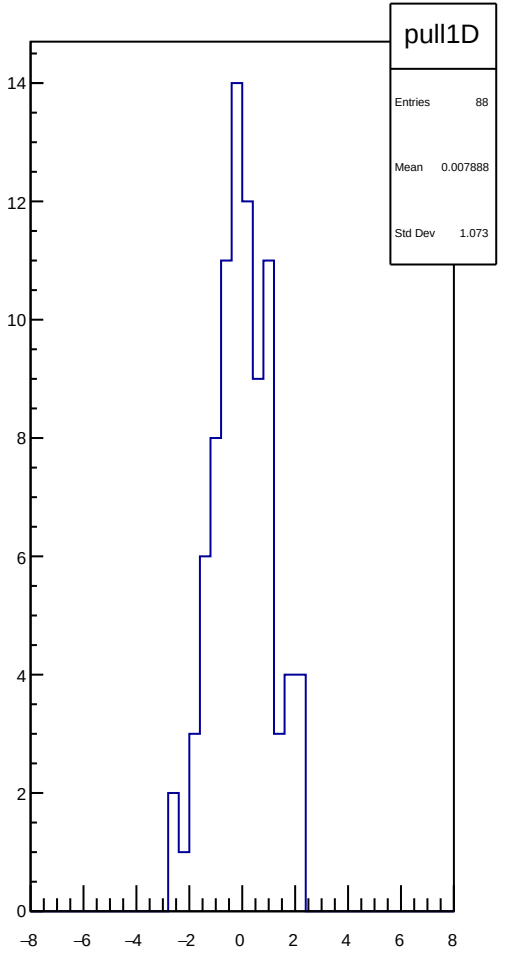

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.139e+05 / 87
p0 38.06 ± 0.03054
70
60
50
40
30
20

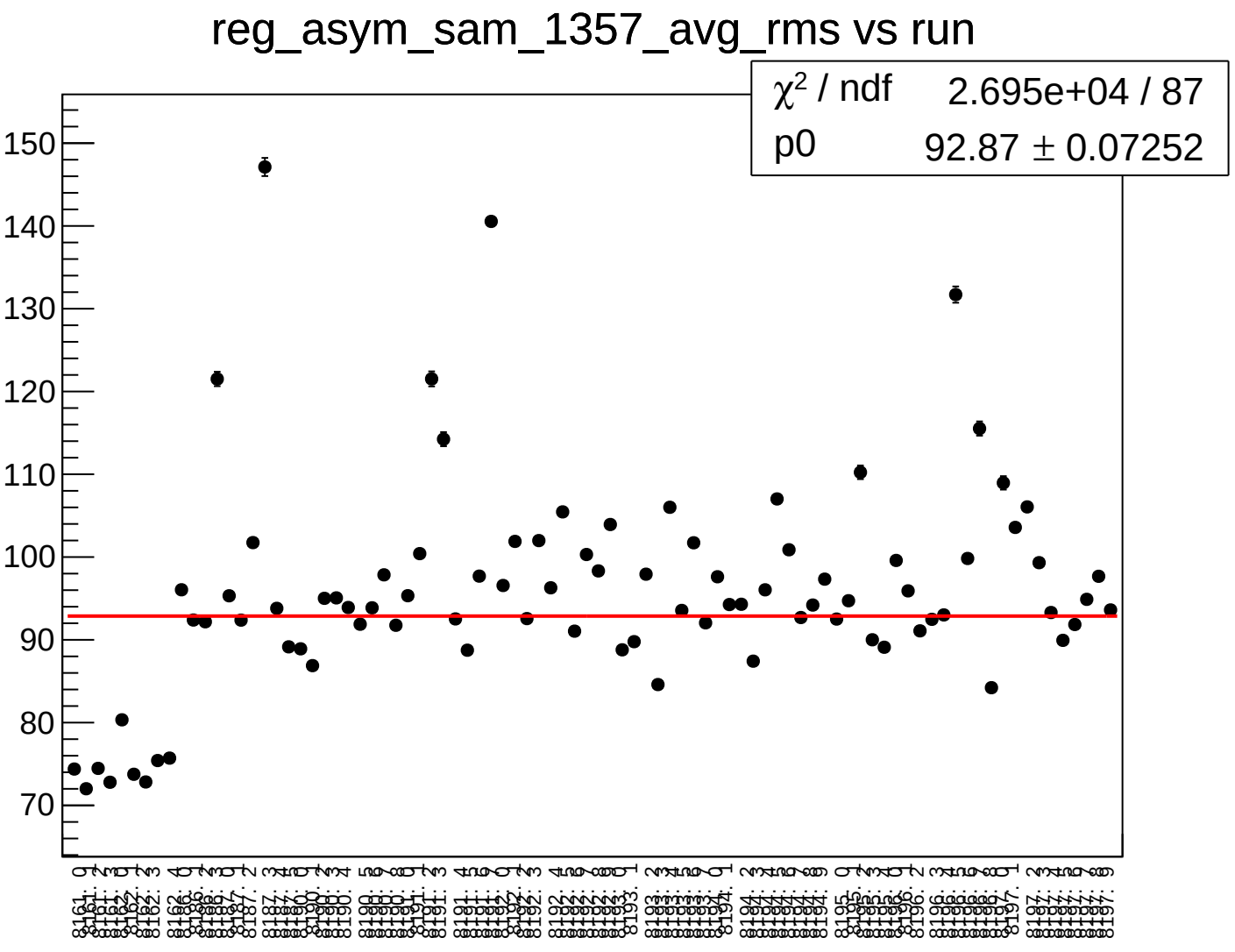

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.6 / 87
p0 5.102e−15 ± 1.432e−14
pull
Entries 88
Mean 53.75
Std Dev 67.74

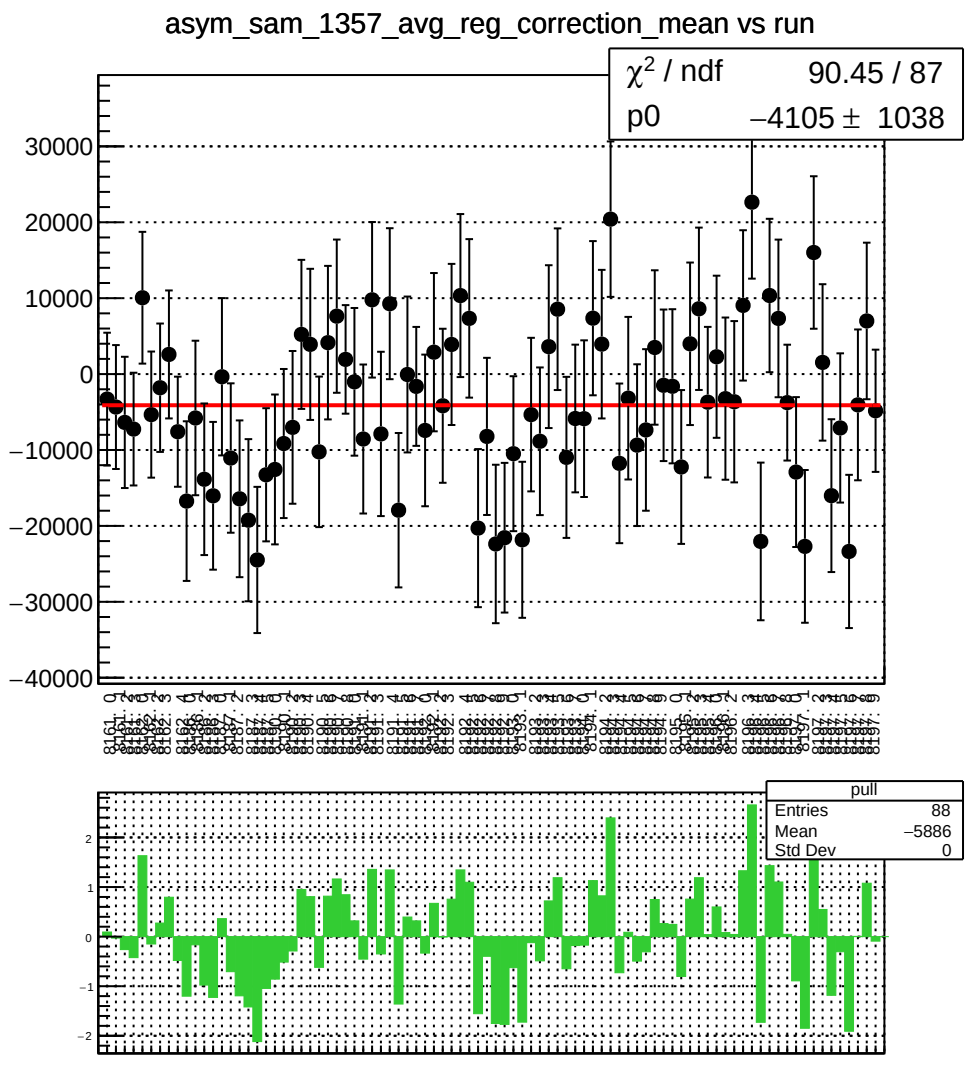

pull1D
Entries 88
Mean 0.04039
Std Dev 1.12

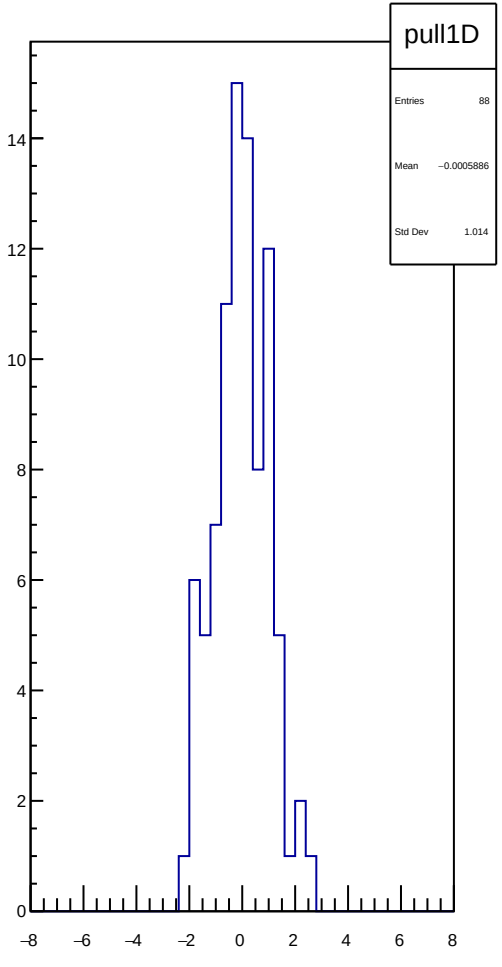

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.21e+05 / 87
p0 1.13e−11 ± 1.013e−14
35
30
25
20
15
10
5

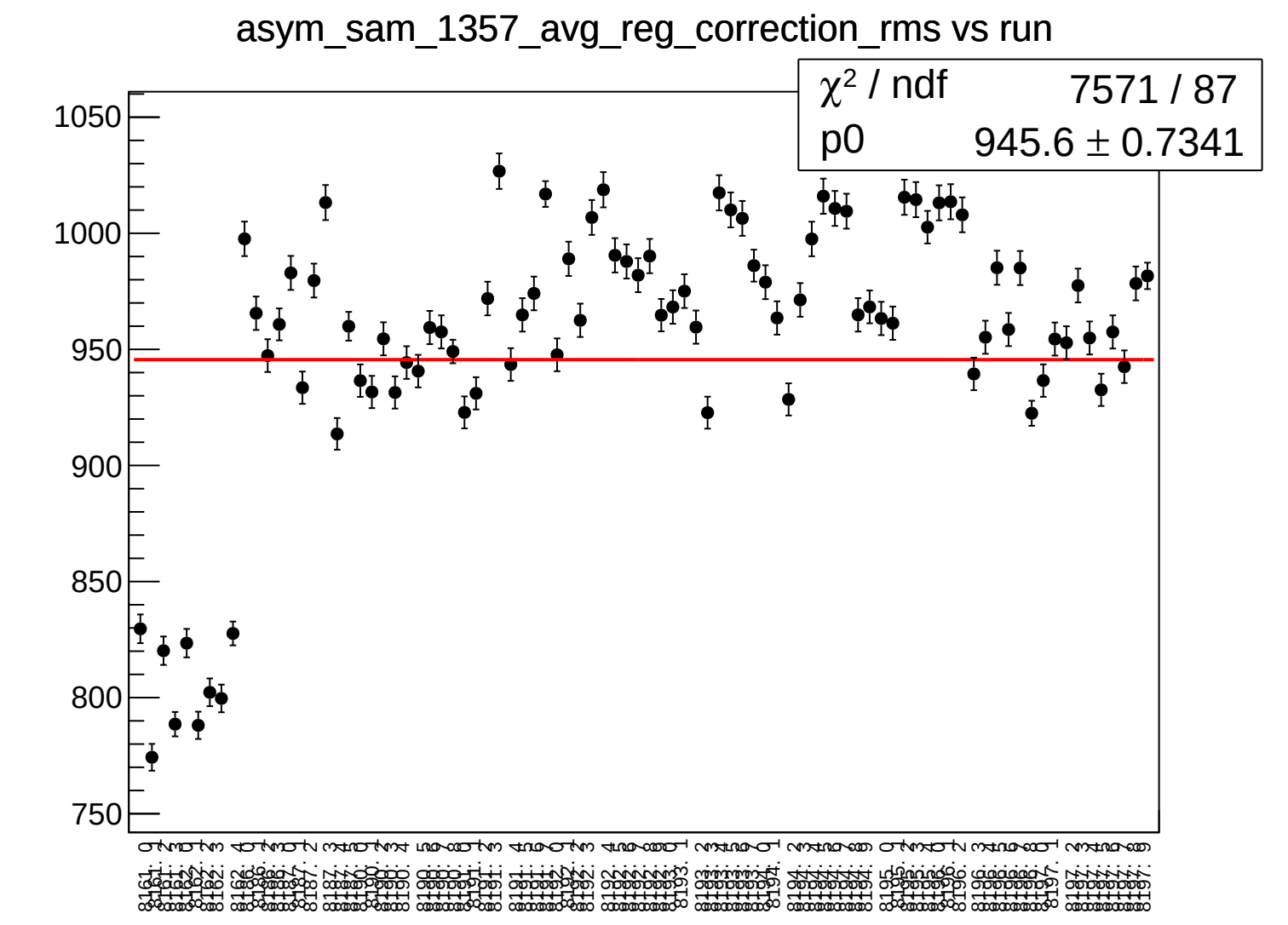

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 101.3 / 87
p0 155.9 ± 102.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −462.2
Std Dev 0
2
1
0
−1
−2

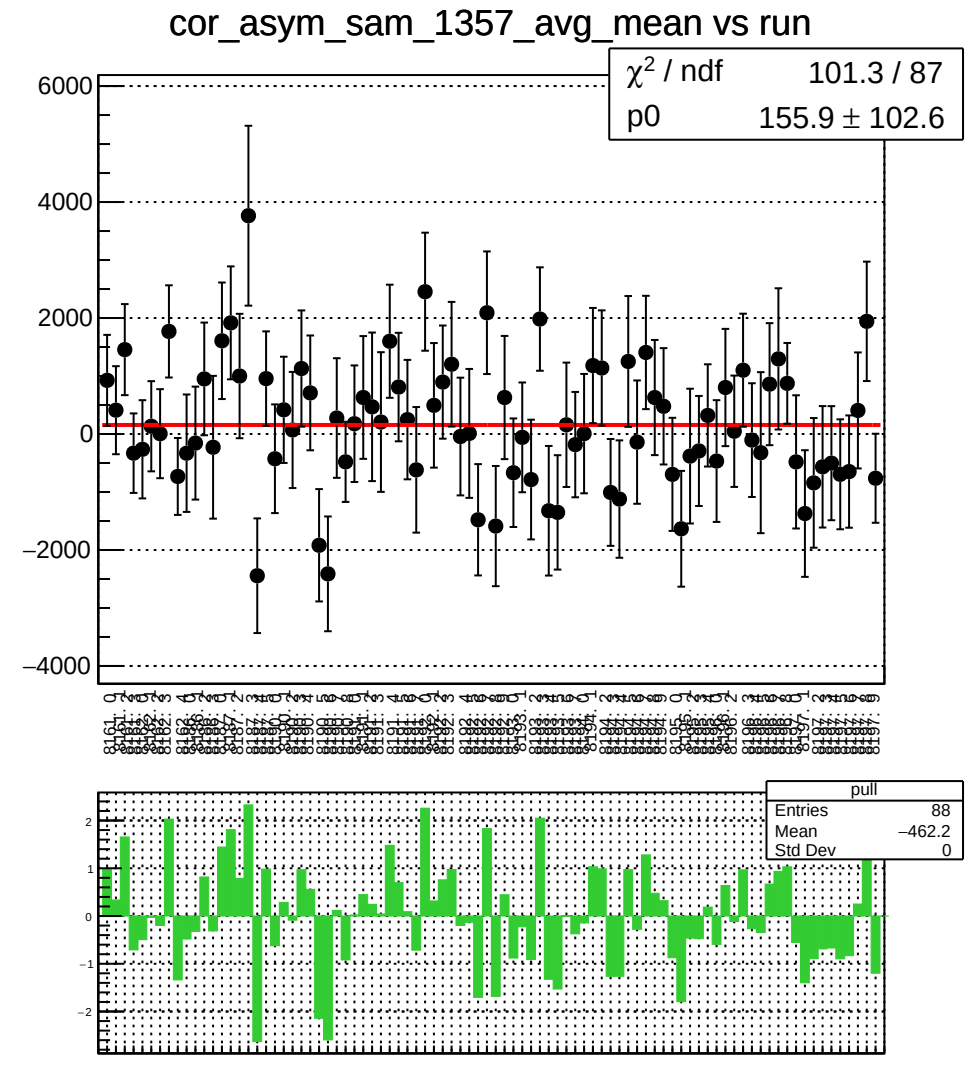

pull1D
Entries 88
Mean 0.007888
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

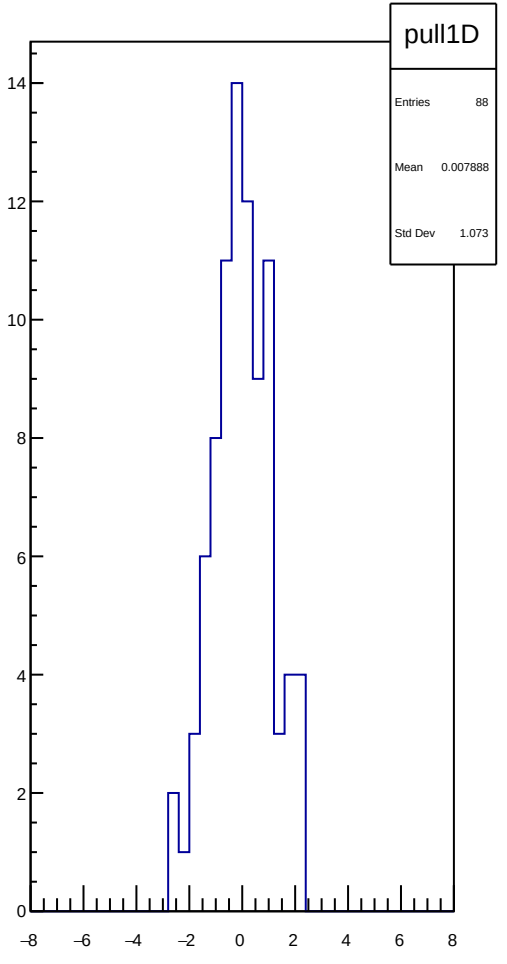

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.695e+04 / 87
p0 92.87 ± 0.07252
150
140
130
120
110
100
90
80
70

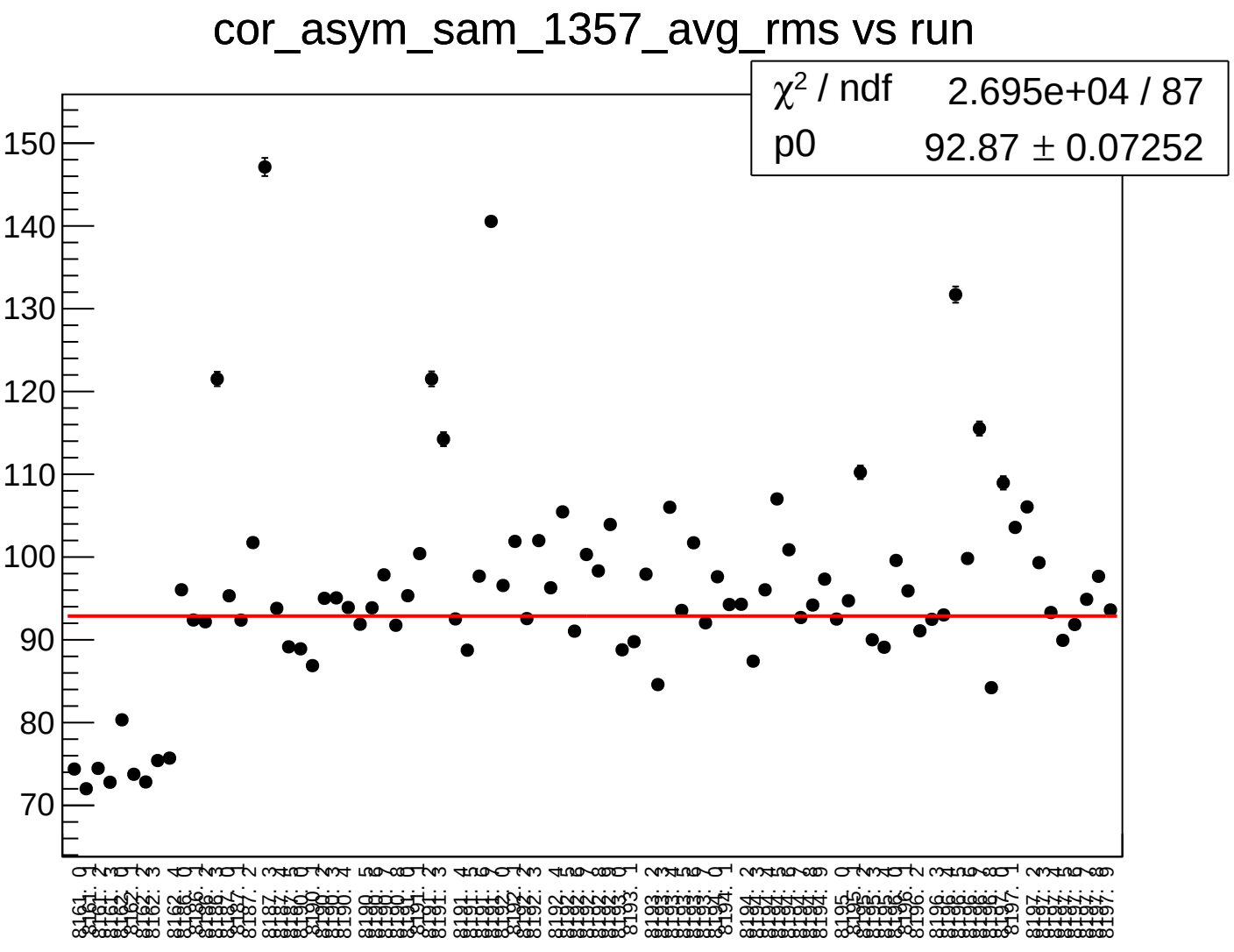

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 90.45 / 87
p0 −4105 ± 1038
pull
Entries 88
Mean −5886
Std Dev 0

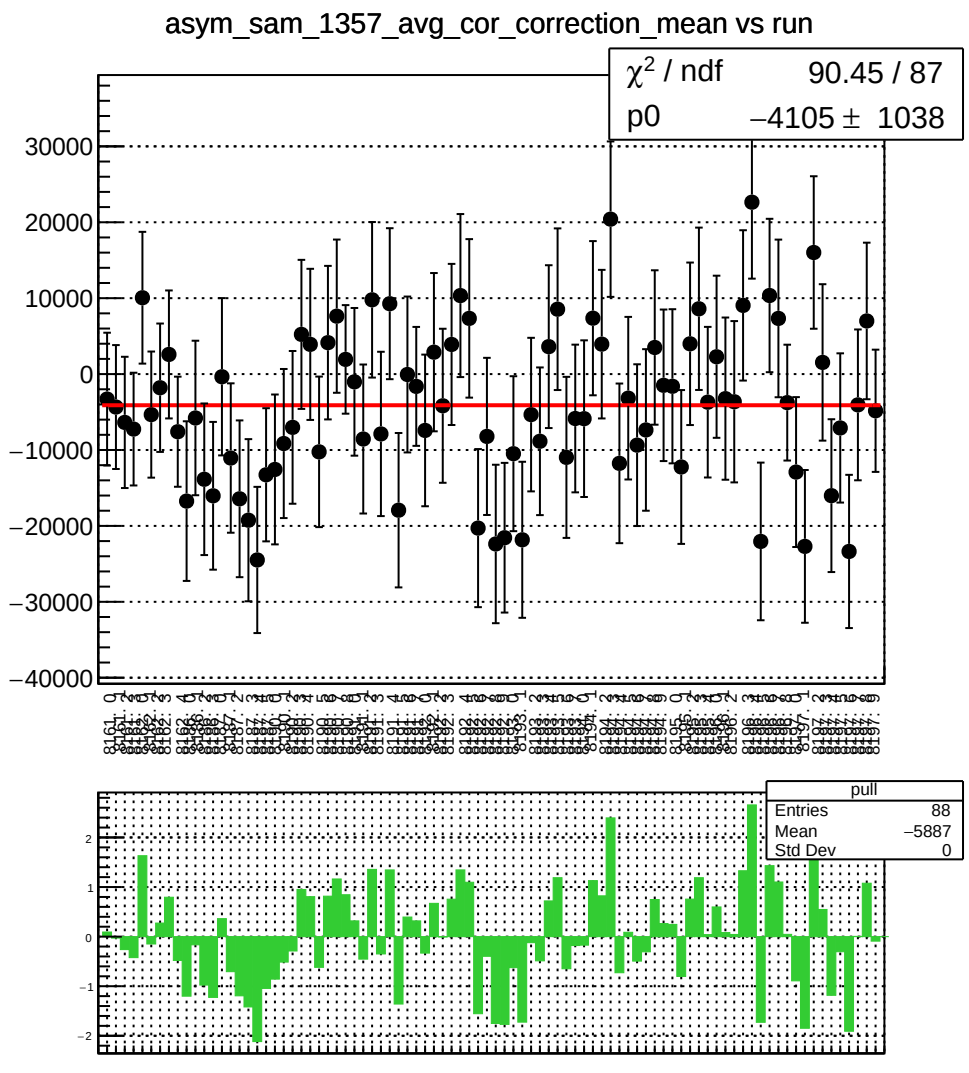

pull1D
Entries 88
Mean −0.0005886
Std Dev 1.014

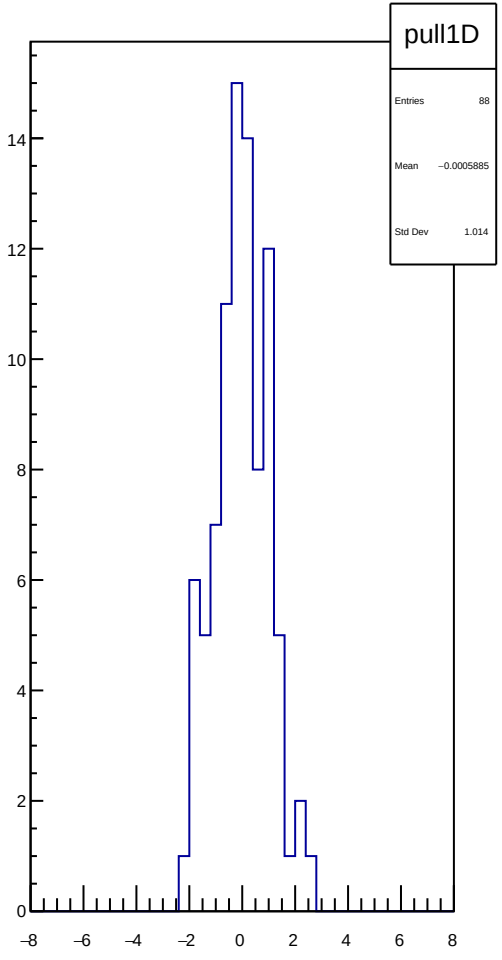

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 7571 / 87
p0 945.6 ± 0.7341
1050
1000
950
900
850
800
750

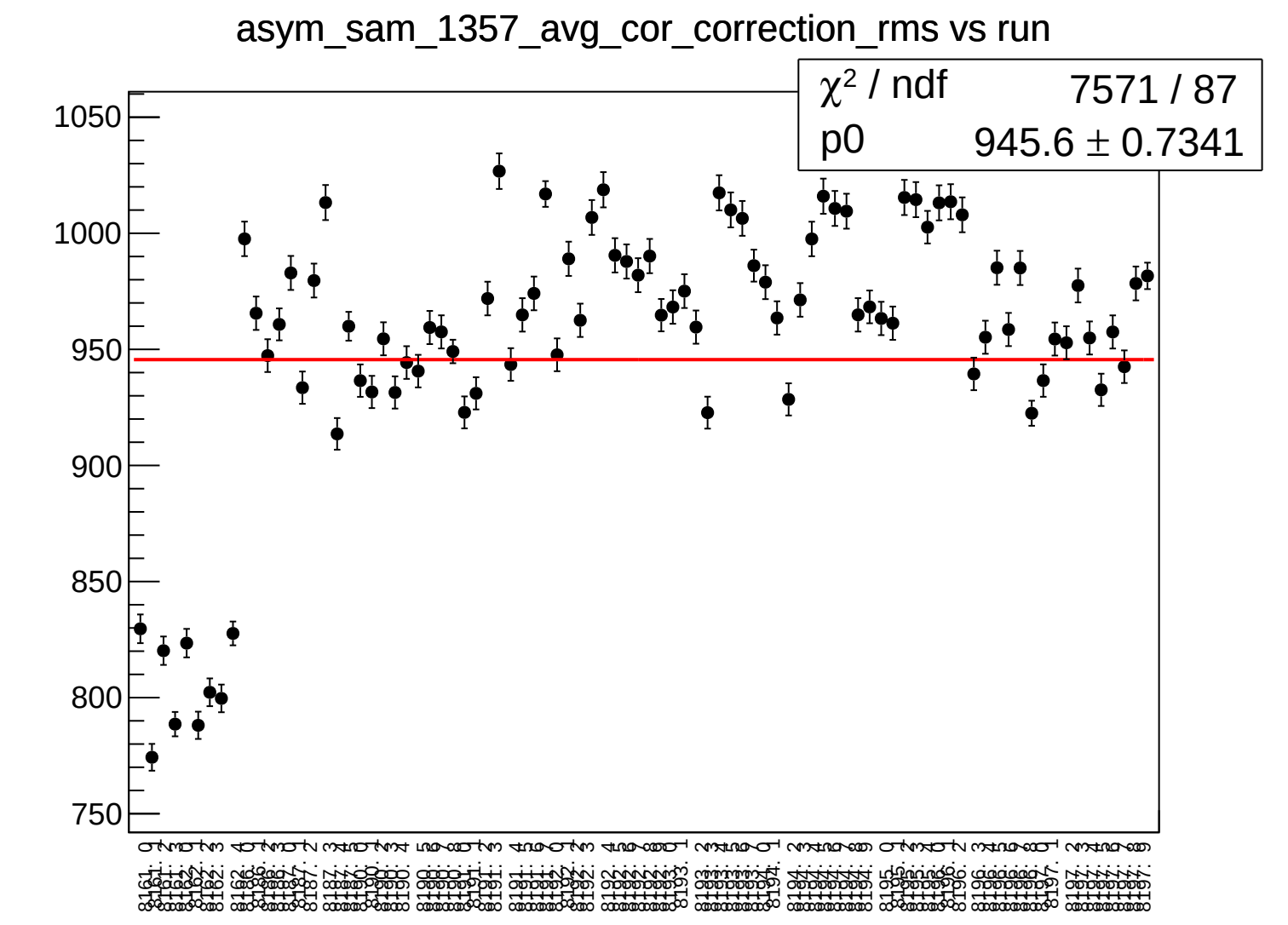

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 101.3 / 87
p0 155.9 ± 102.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −462.2
Std Dev 0
2
1
0
−1
−2

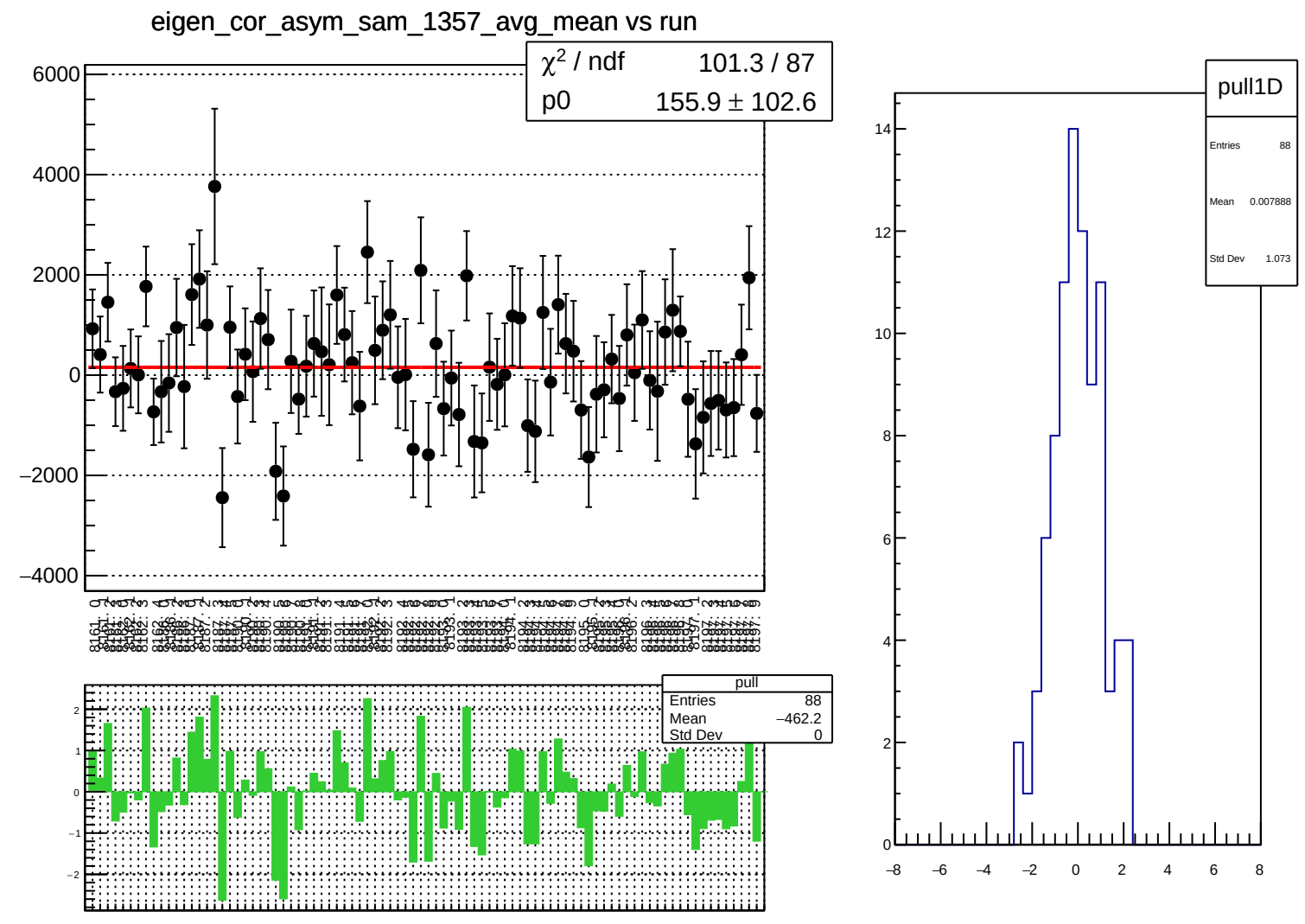

pull1D
Entries 88
Mean 0.007888
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

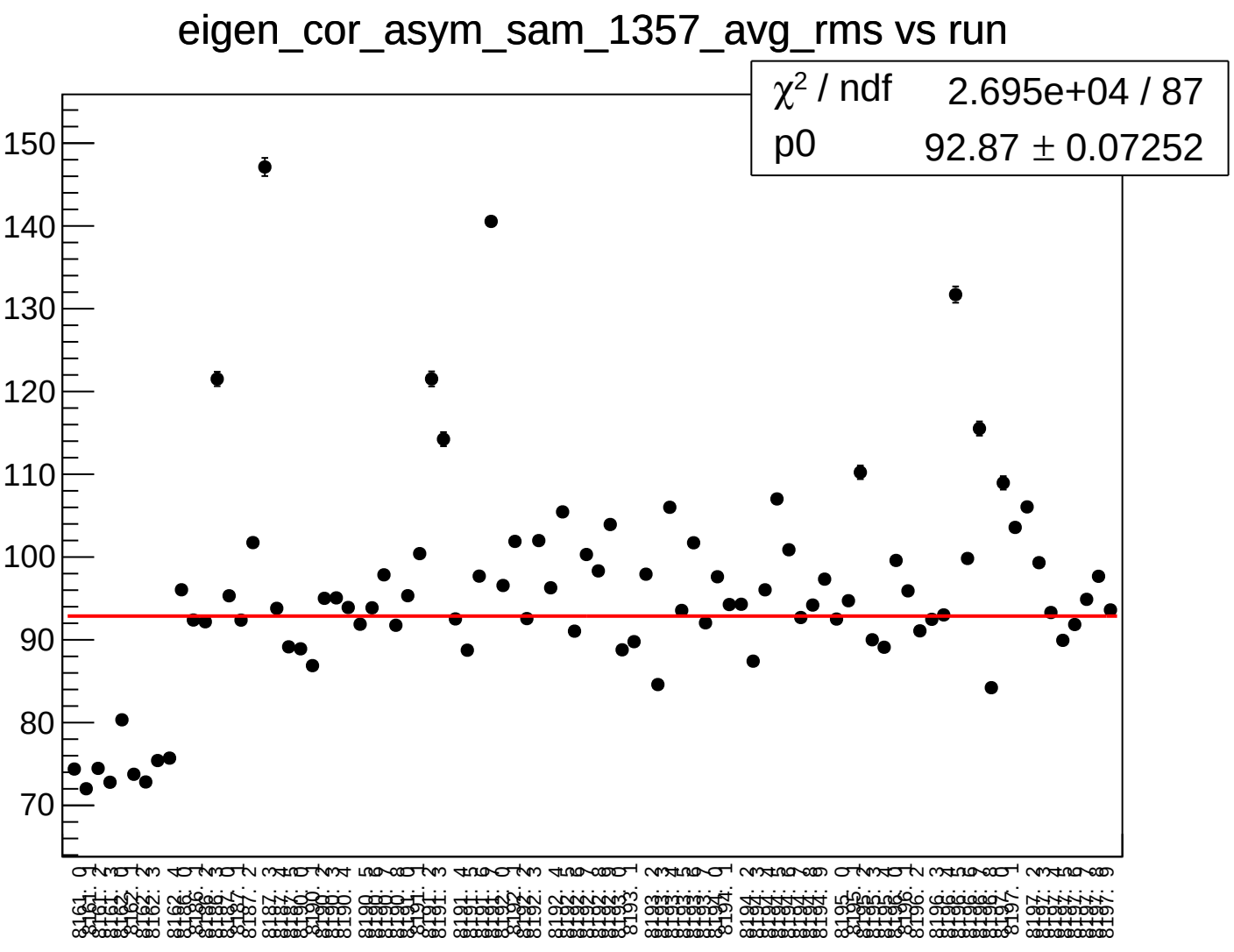

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.695e+04 / 87
p0 92.87 ± 0.07252
150
140
130
120
110
100
90
80
70

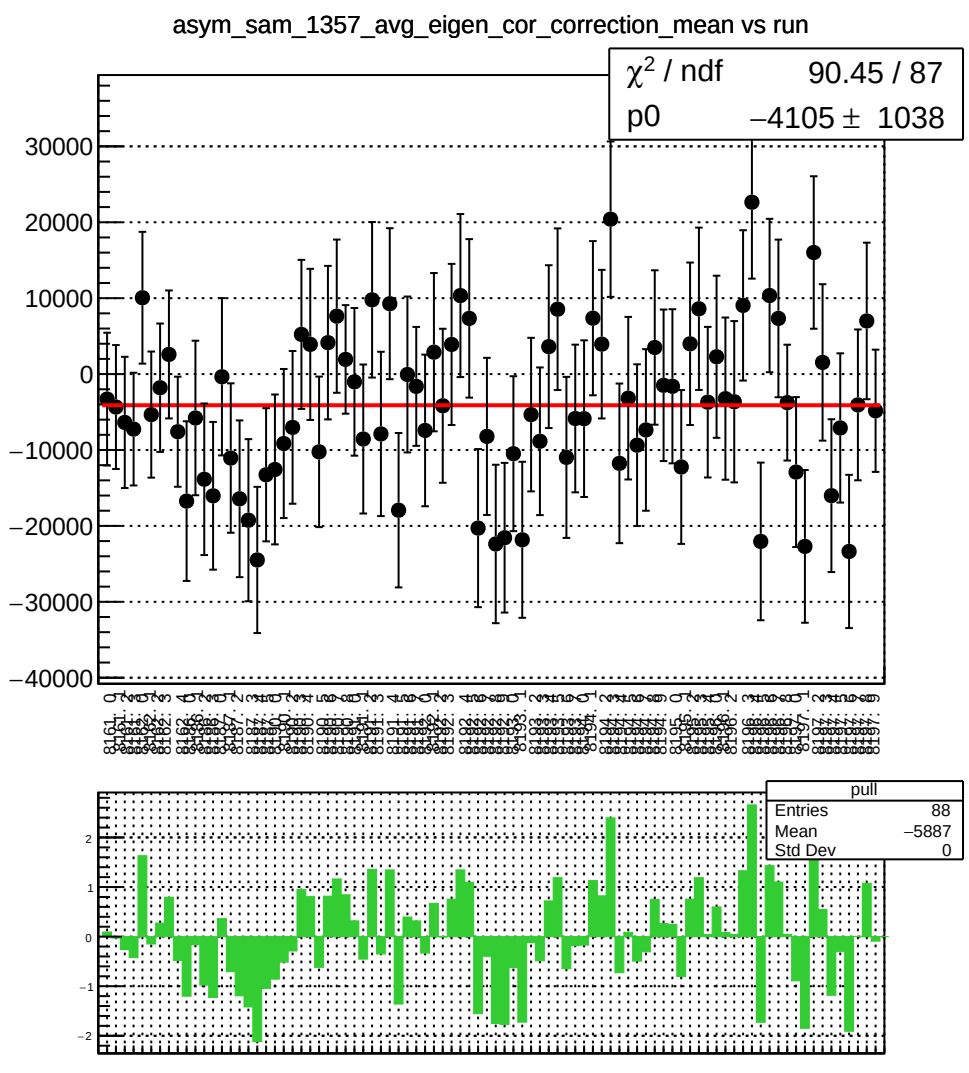

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 90.45 / 87
p0 −4105 ± 1038
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −5887
Std Dev 0
2
1
0
−1
−2

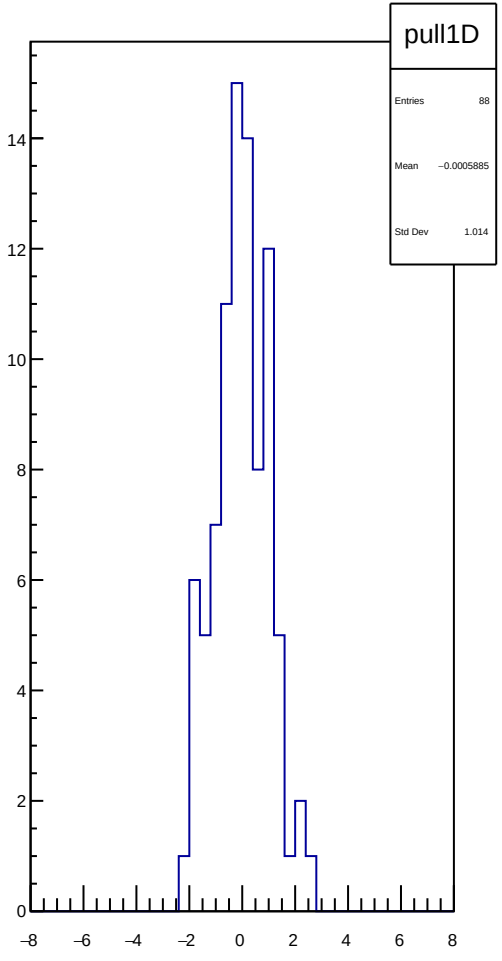

pull1D
Entries 88
Mean −0.0005885
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

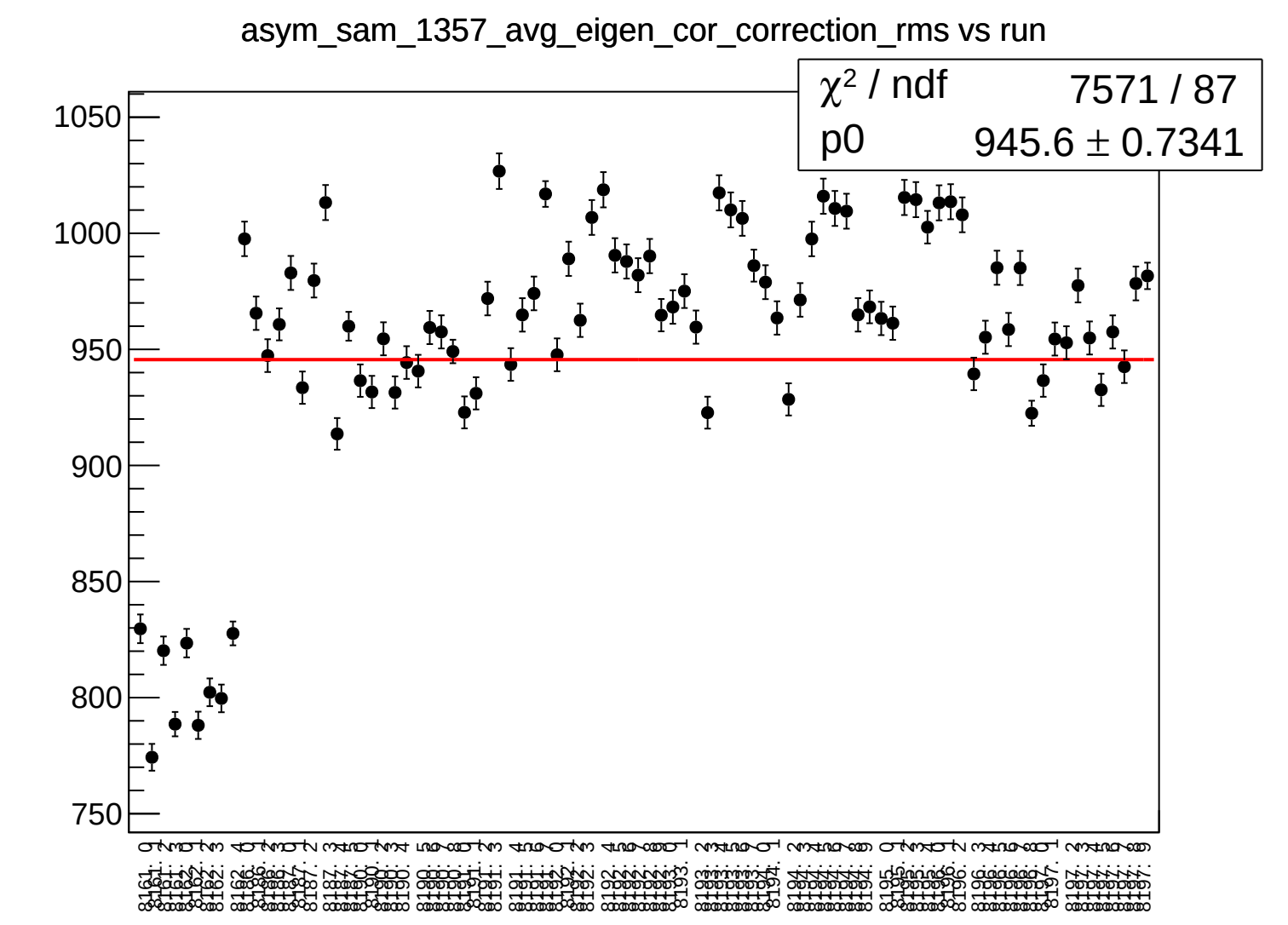

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 7571 / 87
p0 945.6 ± 0.7341
1050
1000
950
900
850
800
750

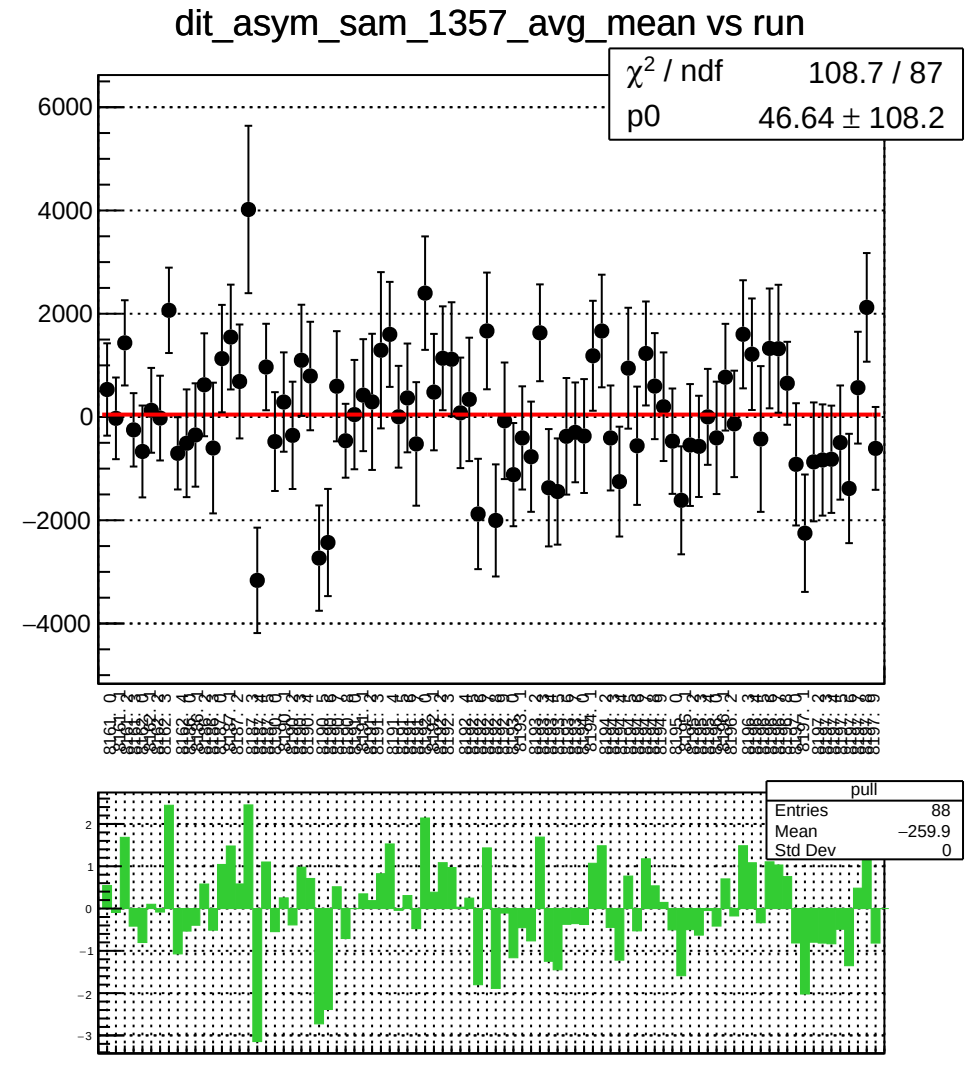

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 101.3 / 87
p0 155.9 ± 102.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −462.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007888
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

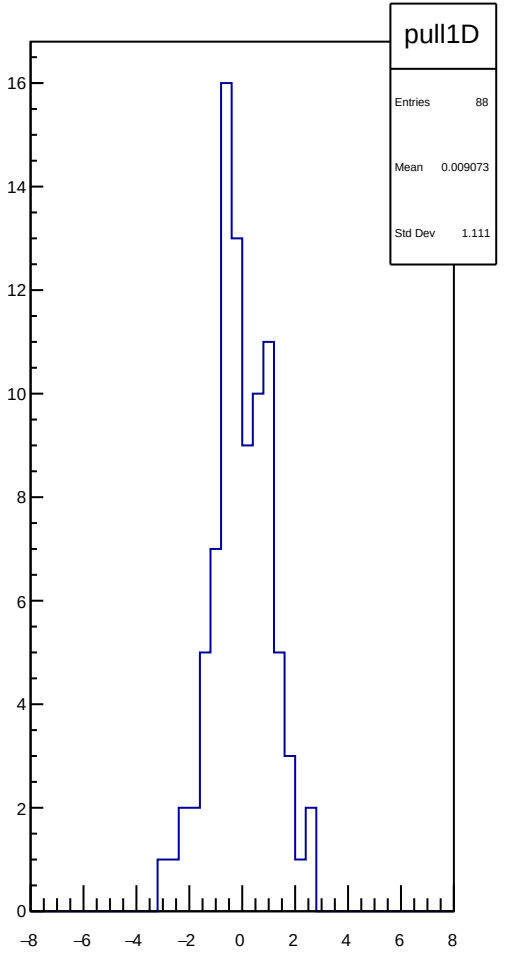

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.695e+04 / 87
p0 92.87 ± 0.07252
150
140
130
120
110
100
90
80
70

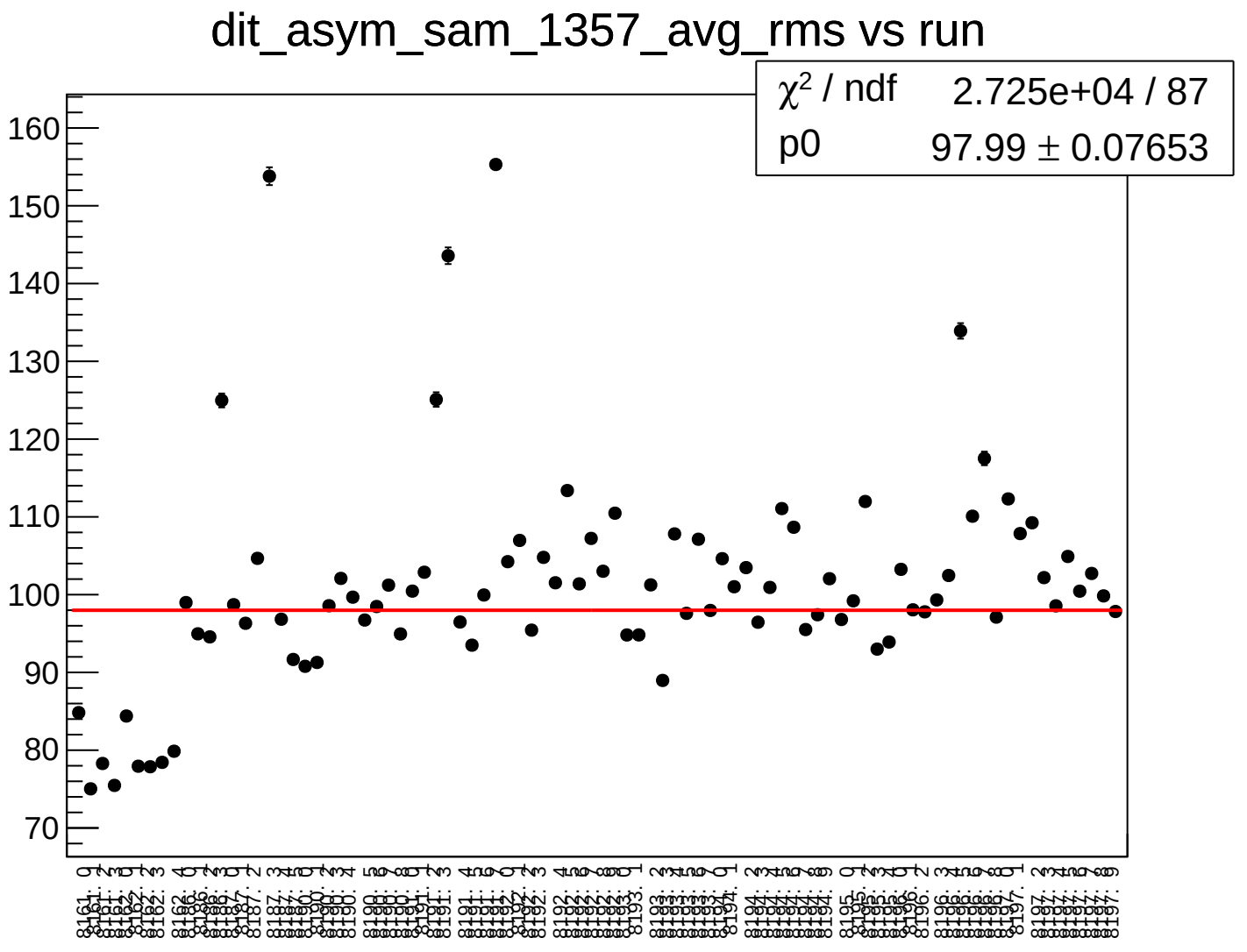

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.45 / 87
p0 −4105 ± 1038
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −5887
Std Dev 0
2
1
0
−1
−2

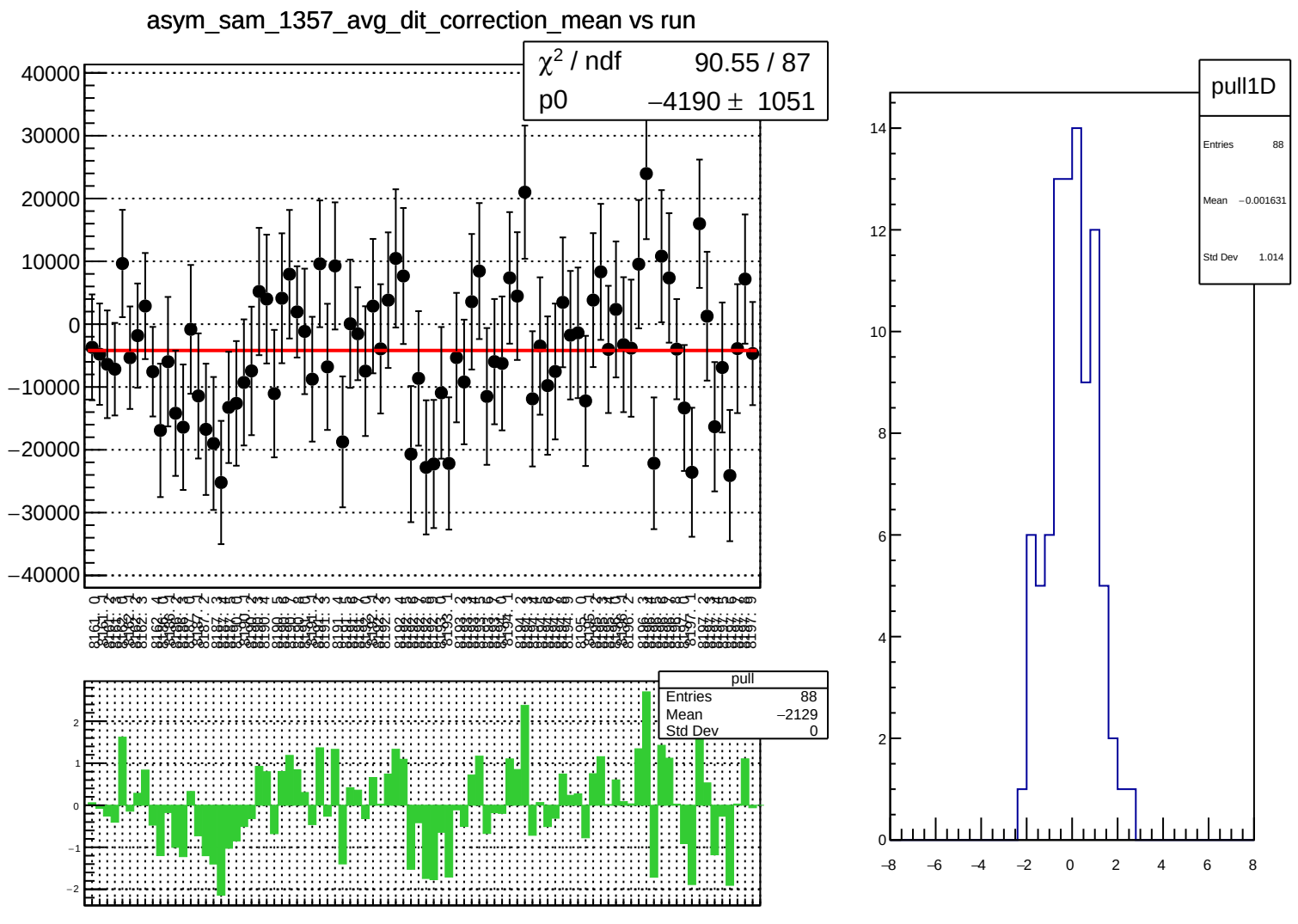

pull1D
Entries 88
Mean −0.0005885
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

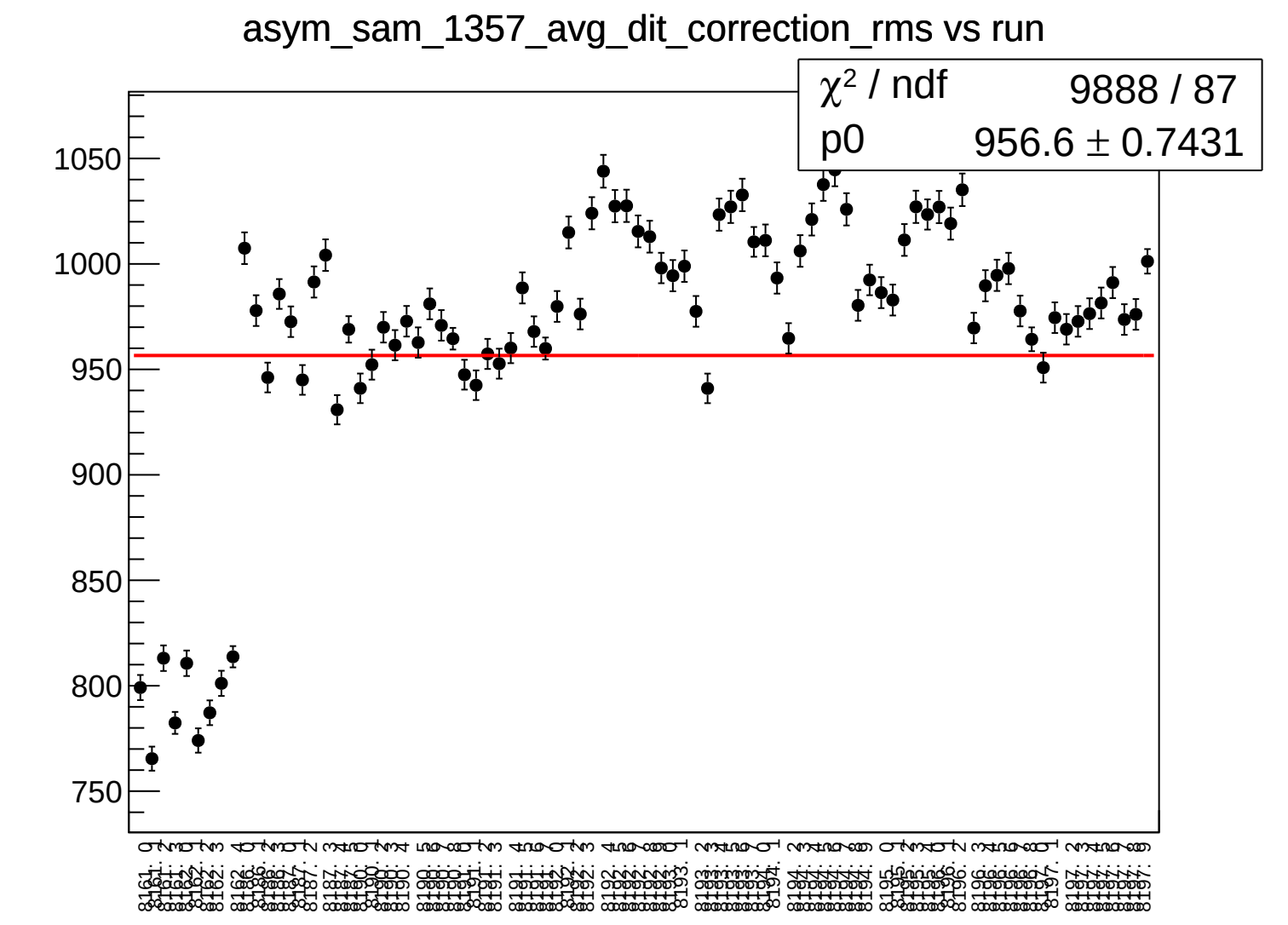

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 7571 / 87
p0 945.6 ± 0.7341
1050
1000
950
900
850
800
750

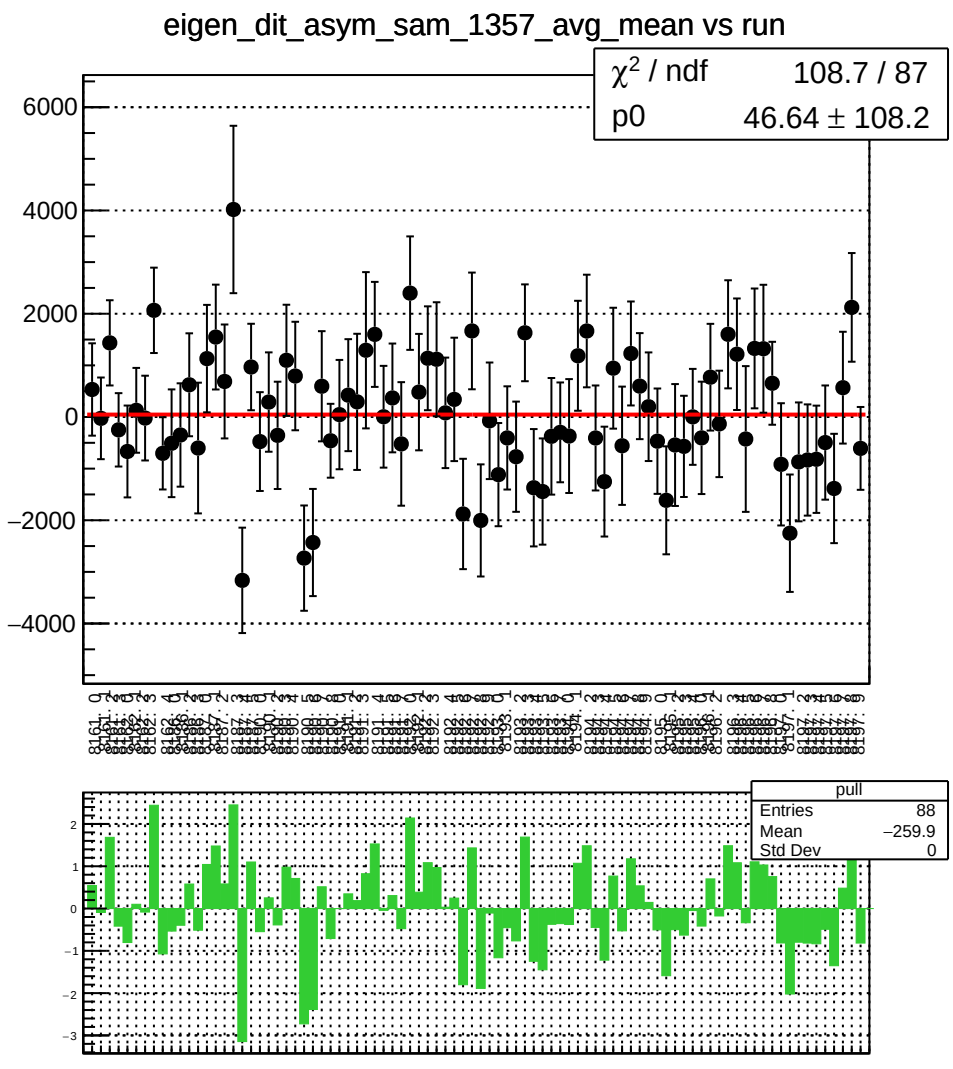

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 108.7 / 87
p0 46.64 ± 108.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −259.9
Std Dev 0
2
1
0
−1
−2
−3

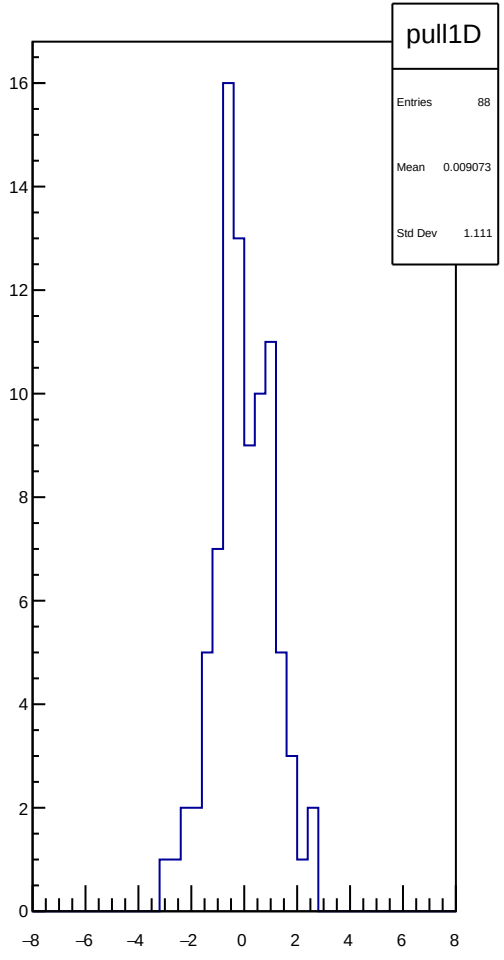

pull1D
Entries 88
Mean 0.009073
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

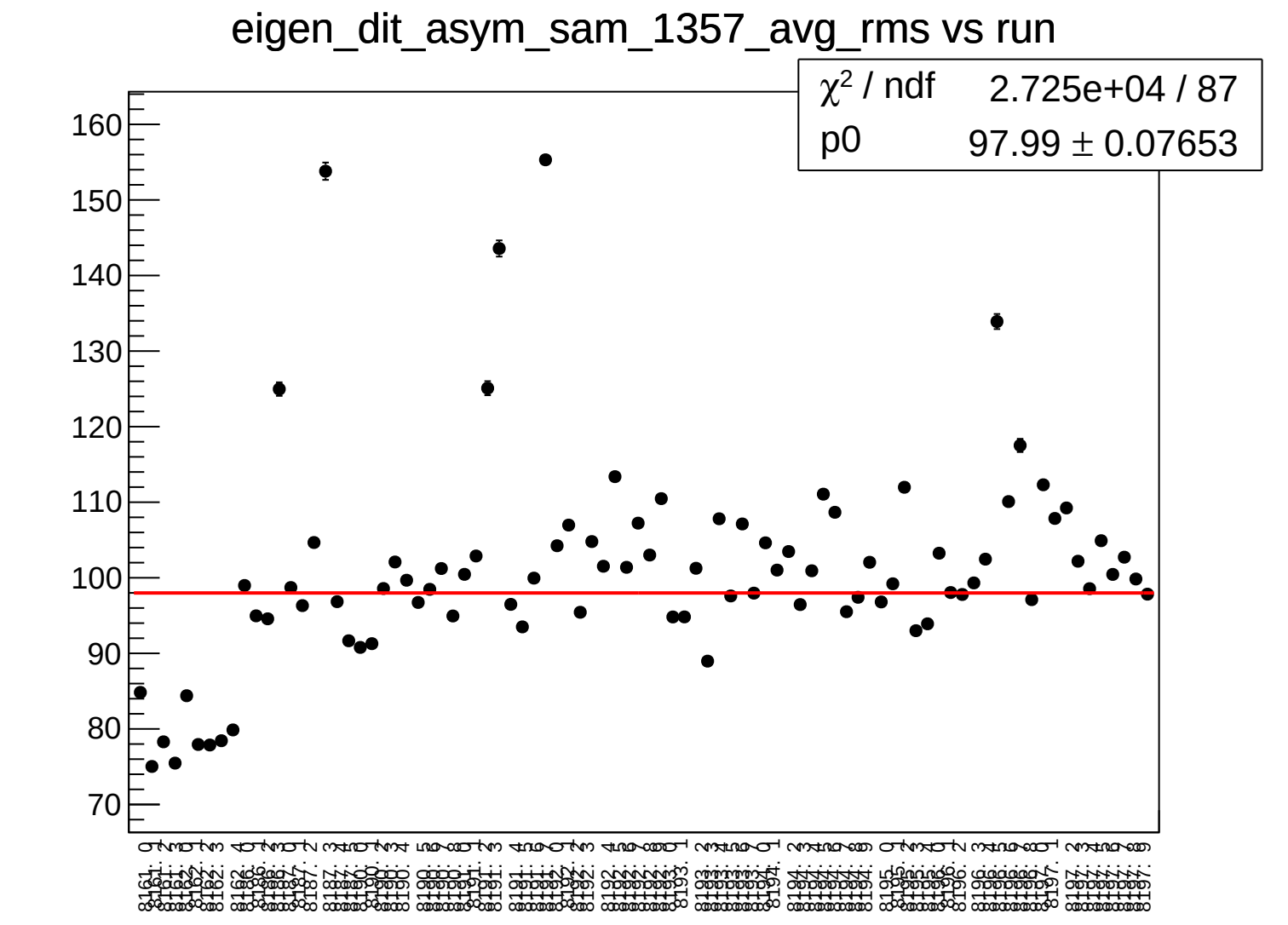

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.725e+04 / 87
p0 97.99 ± 0.07653
160
150
140
130
120
110
100
90
80
70

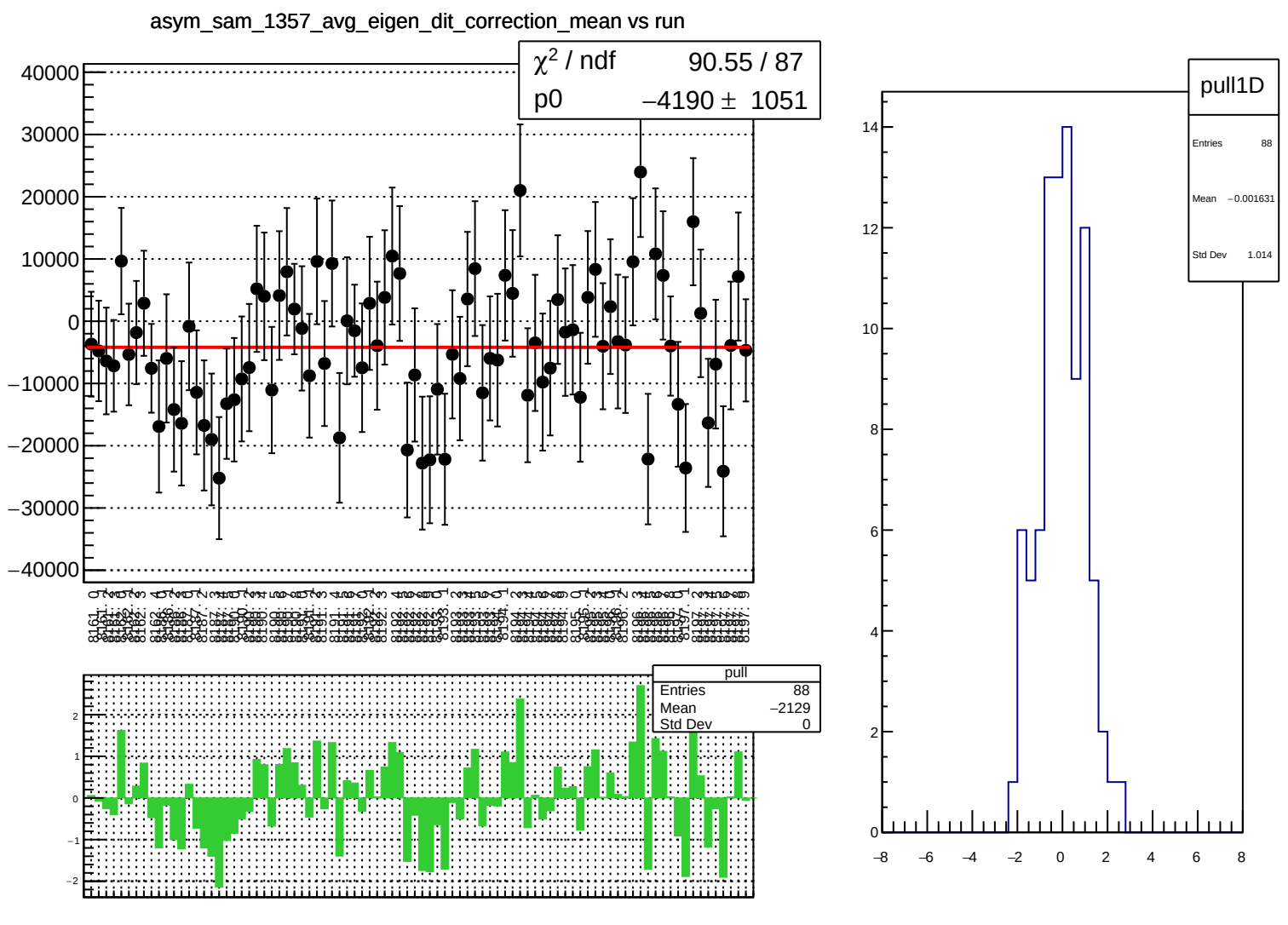

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 90.55 / 87
p0 −4190 ± 1051
pull
Entries 88
Mean −2129
Std Dev 0
pull1D
Entries 88
Mean −0.001631
Std Dev 1.014

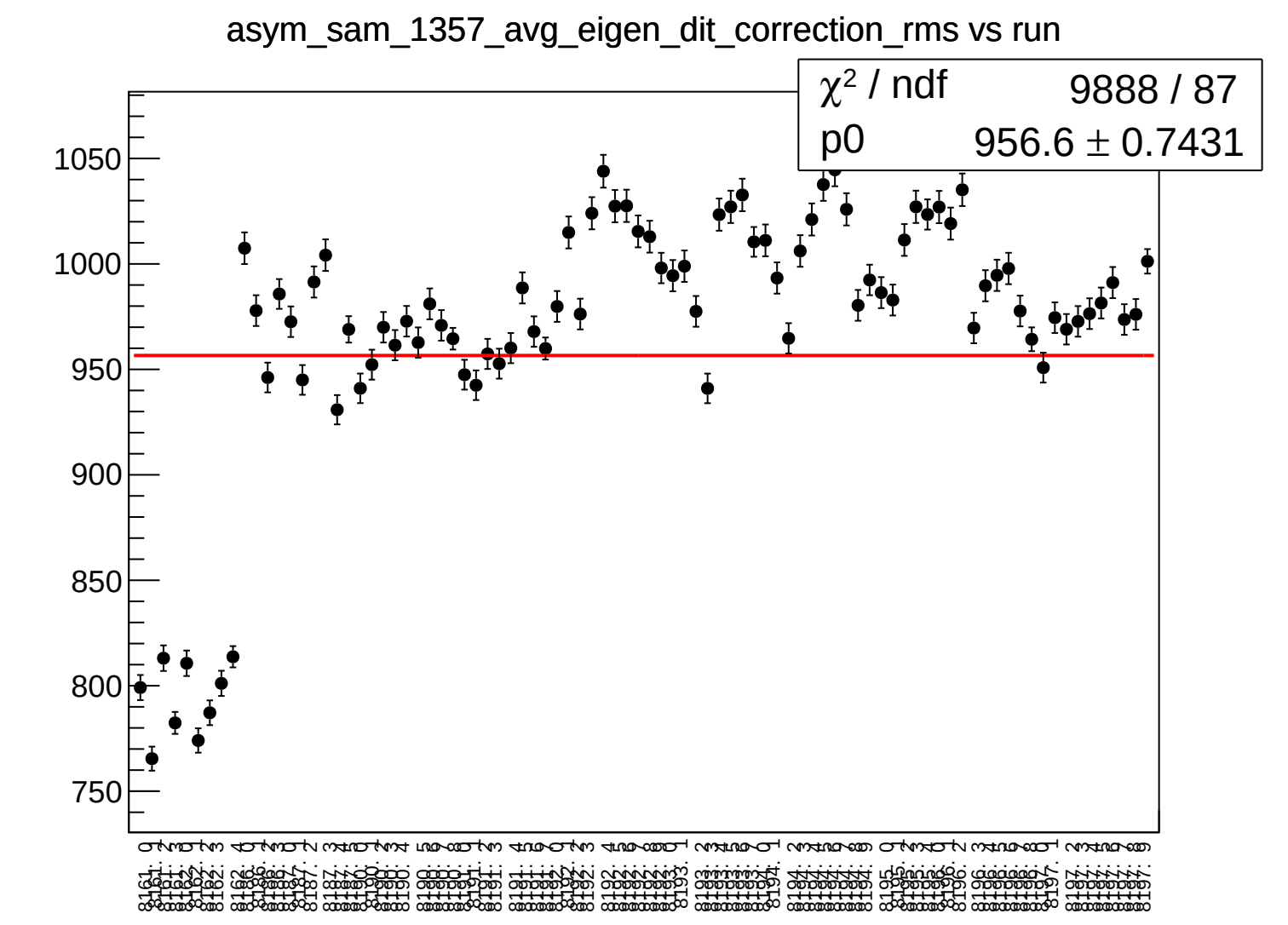

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 9888 / 87
p0 956.6 ± 0.7431
1050
1000
950
900
850
800
750

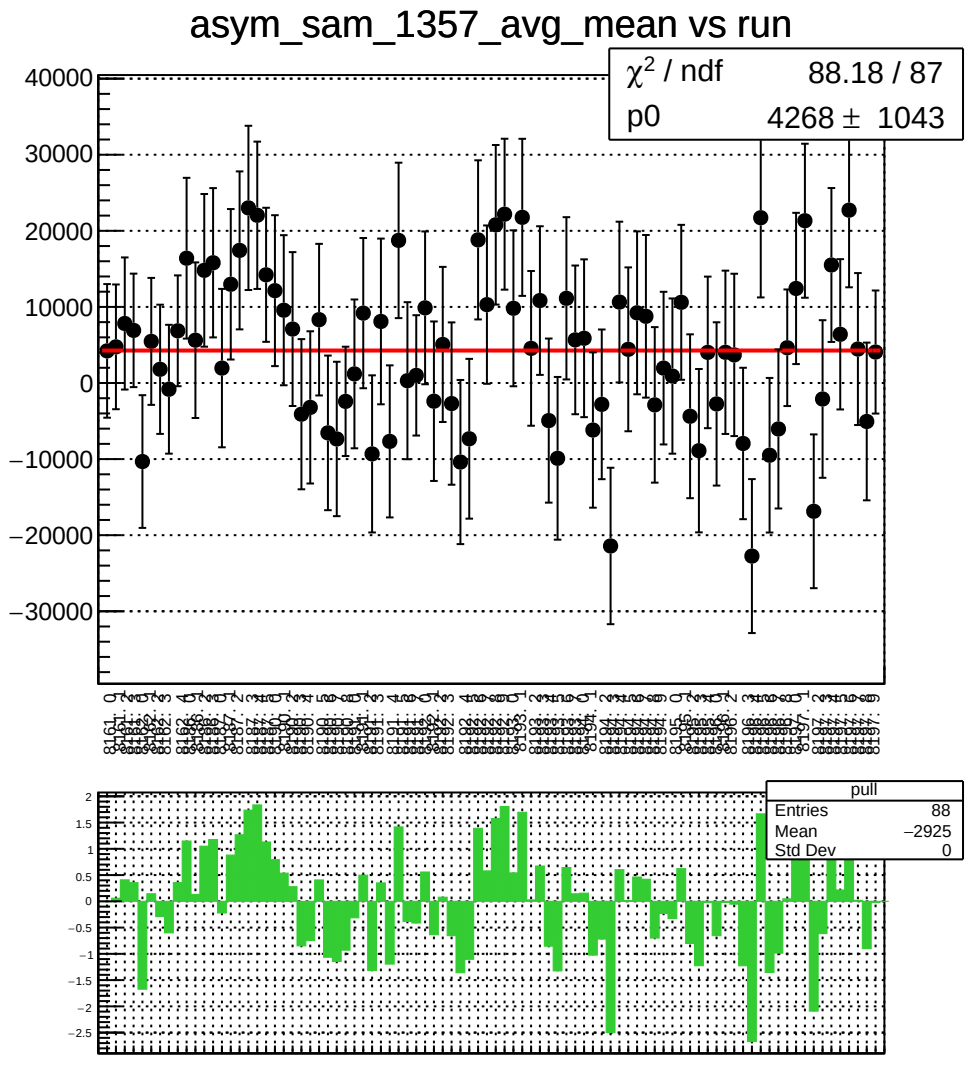

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 108.7 / 87
p0 46.64 ± 108.2
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −259.9
Std Dev 0
2
1
0
−1
−2
−3

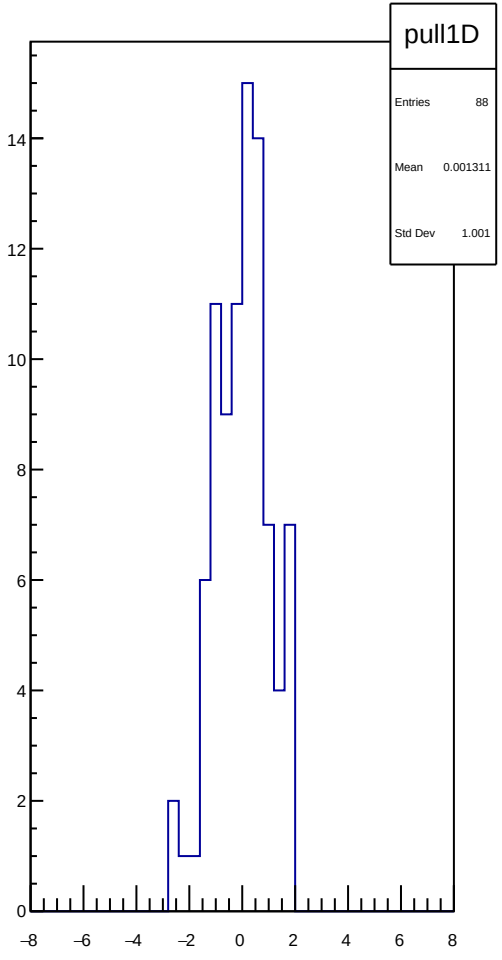

pull1D
Entries 88
Mean 0.009073
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

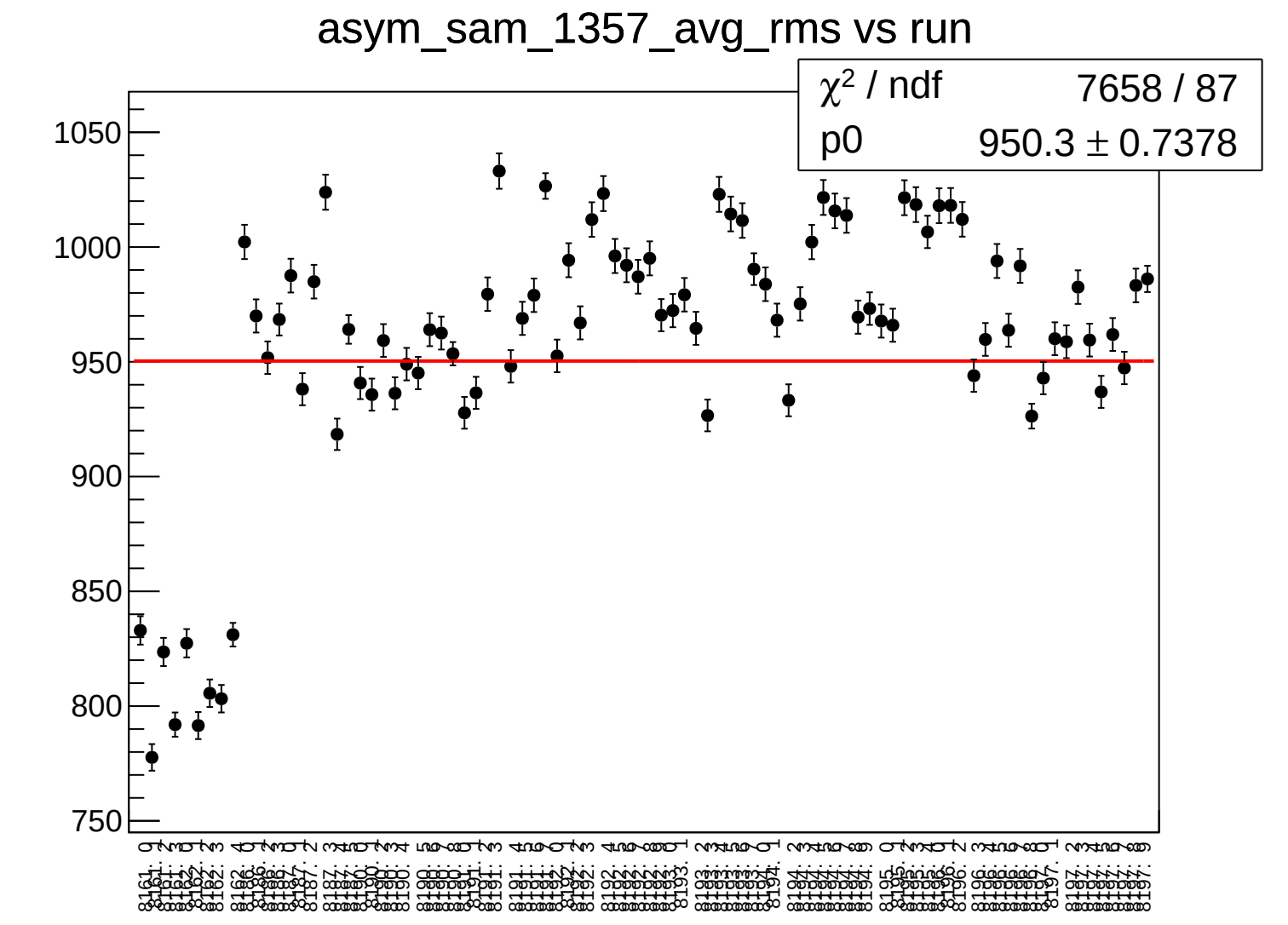

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.725e+04 / 87
p0 97.99 ± 0.07653
160
150
140
130
120
110
100
90
80
70

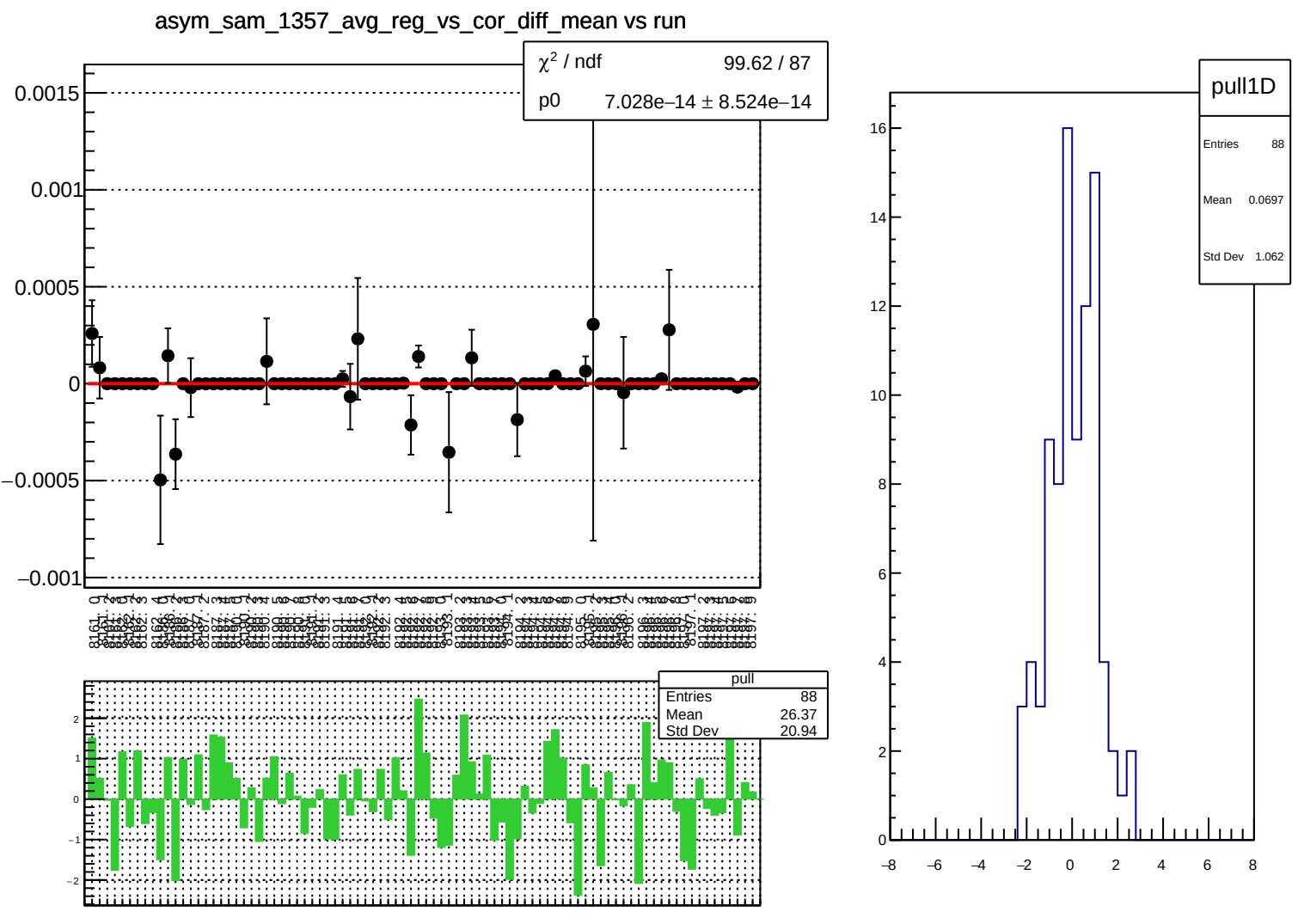

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.55 / 87
p0 −4190 ± 1051
pull
Entries 88
Mean −2129
Std Dev 0
pull1D
Entries 88
Mean −0.001631
Std Dev 1.014

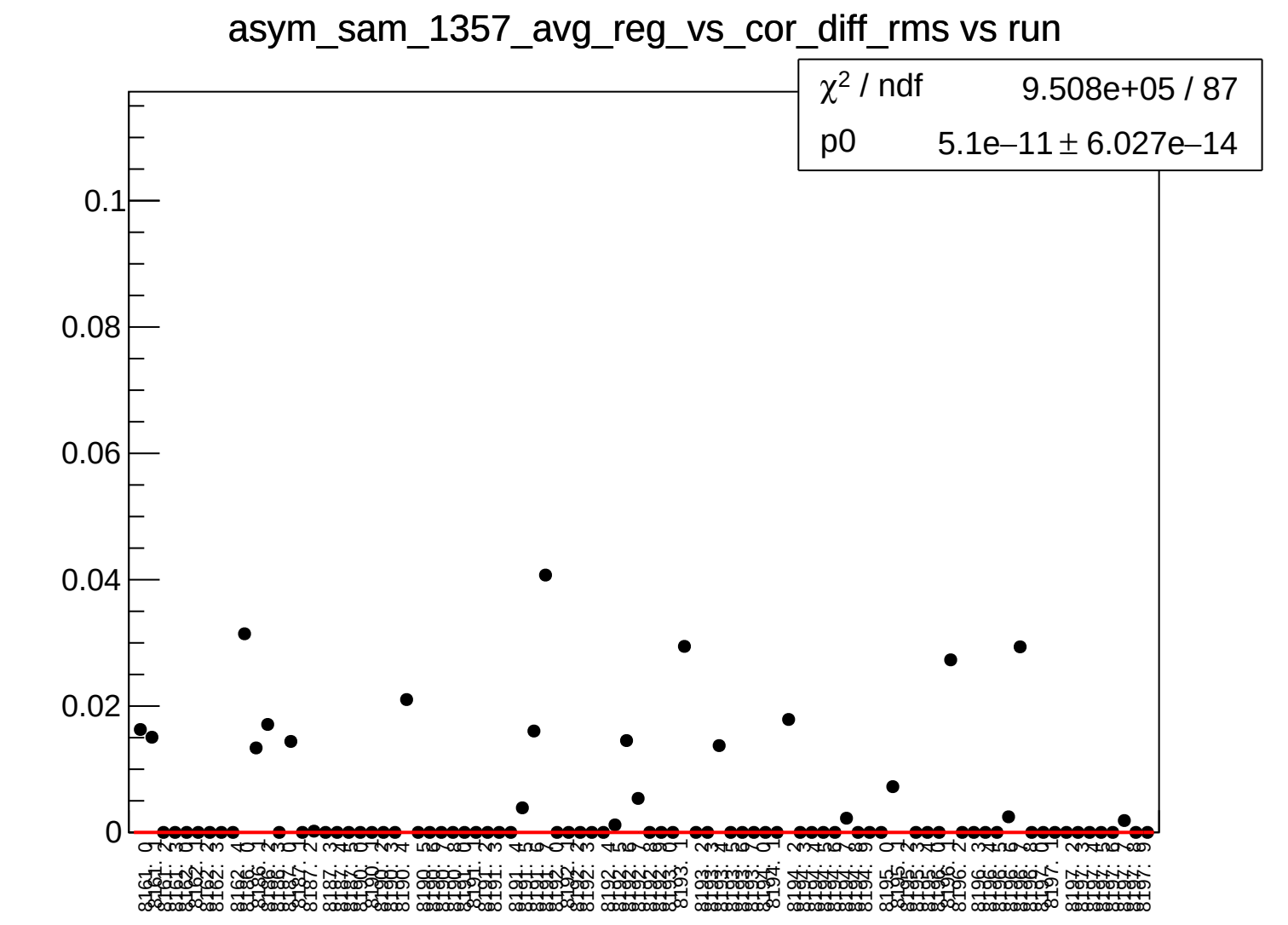

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 9888 / 87
p0 956.6 ± 0.7431
1050
1000
950
900
850
800
750

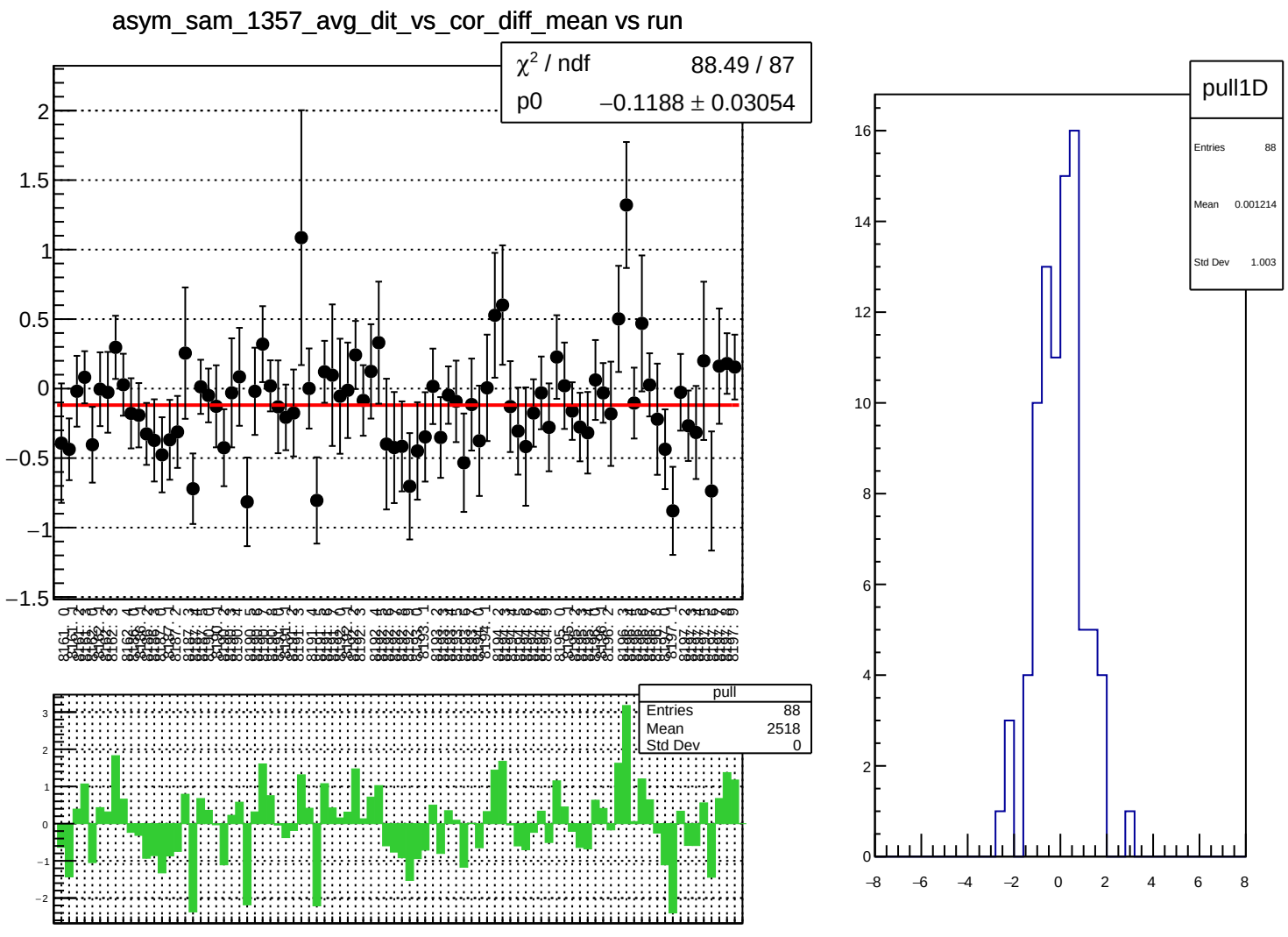

asym_sam_1357_avg_mean vs run
χ² / ndf 88.18 / 87
p0 4268 ± 1043
pull
Entries 88
Mean −2925
Std Dev 0

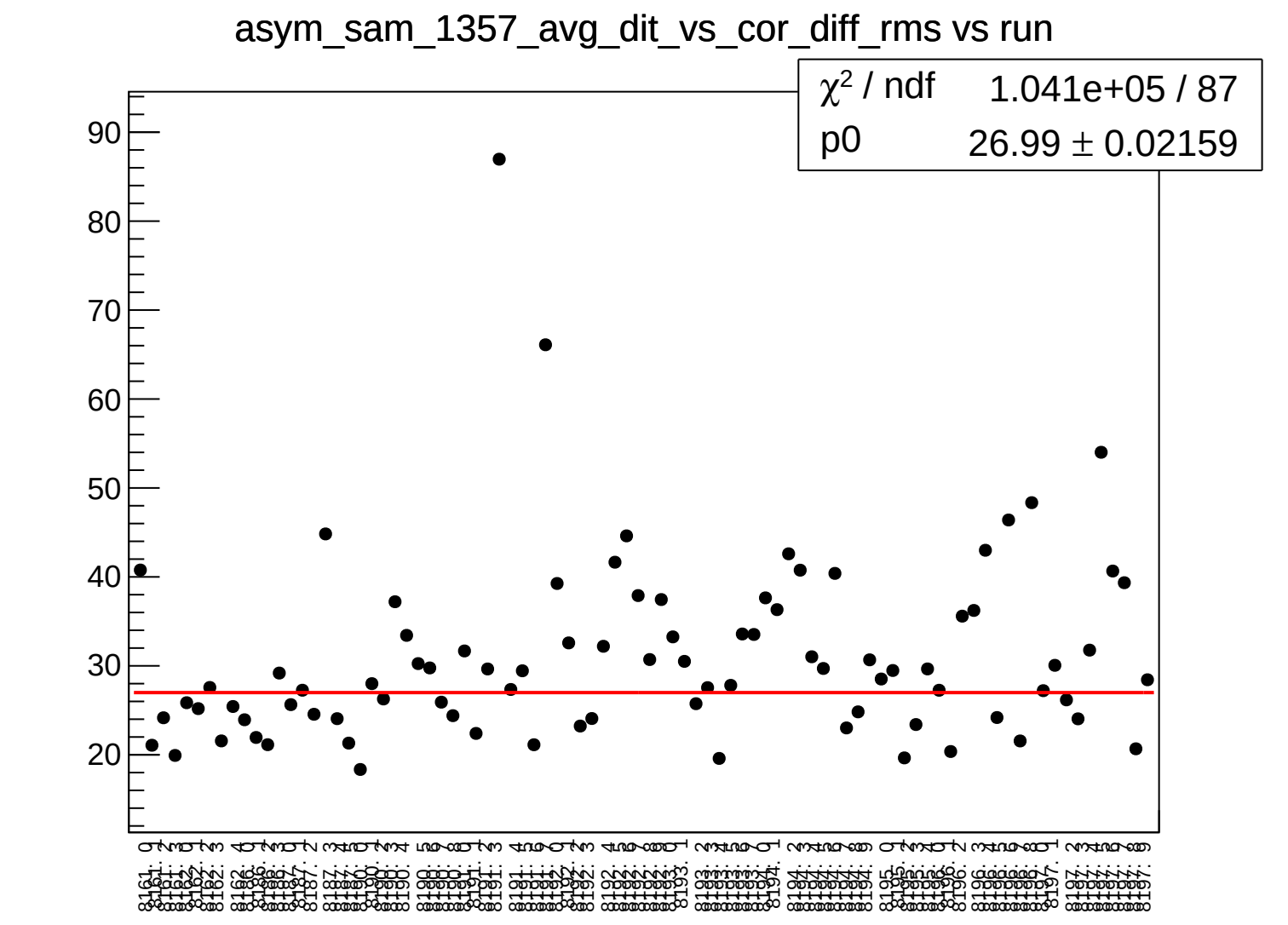

pull1D
Entries 88
Mean 0.001311
Std Dev 1.001

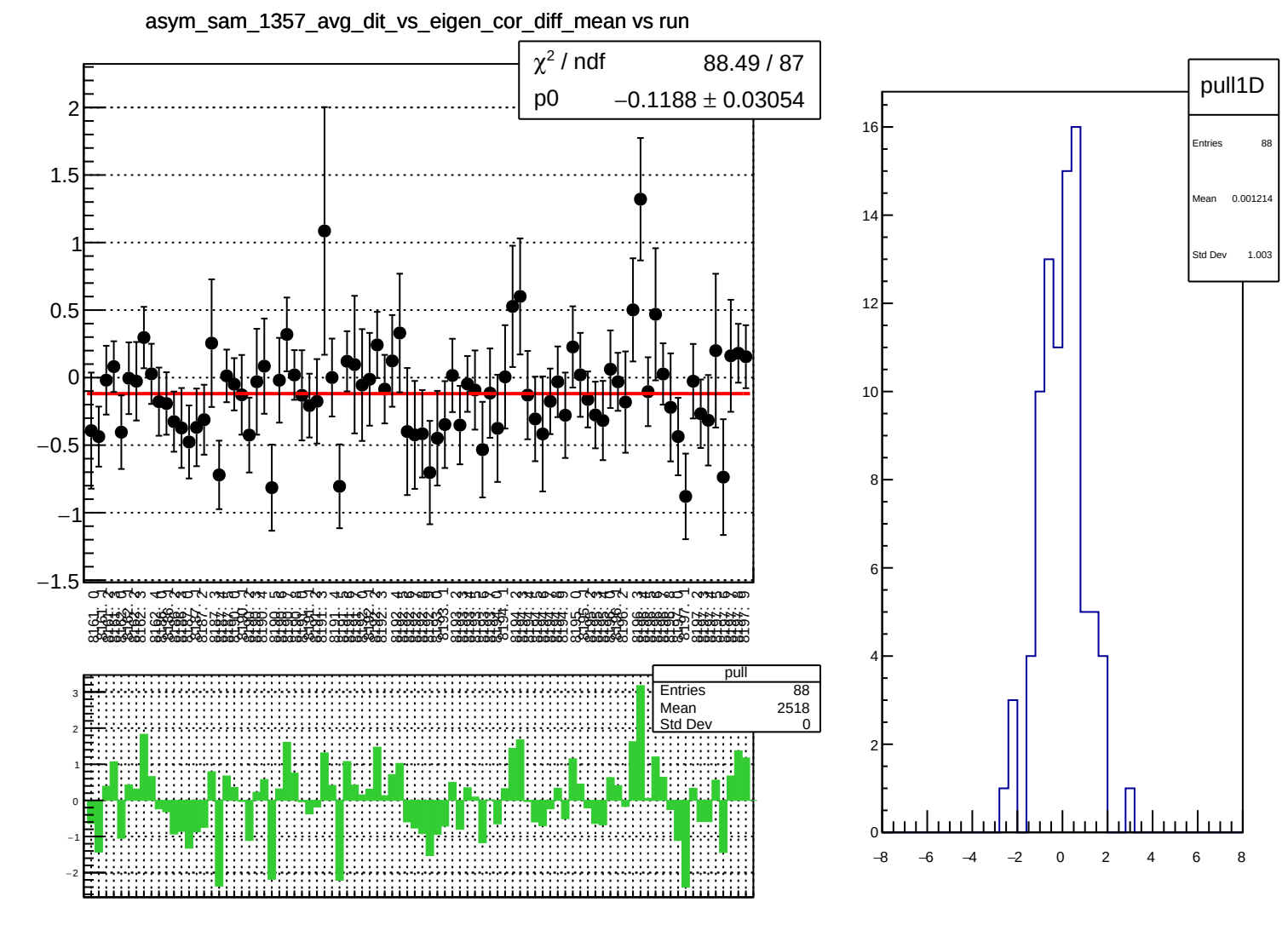

asym_sam_1357_avg_rms vs run
χ² / ndf 7658 / 87
p0 950.3 ± 0.7378
1050
1000
950
900
850
800
750

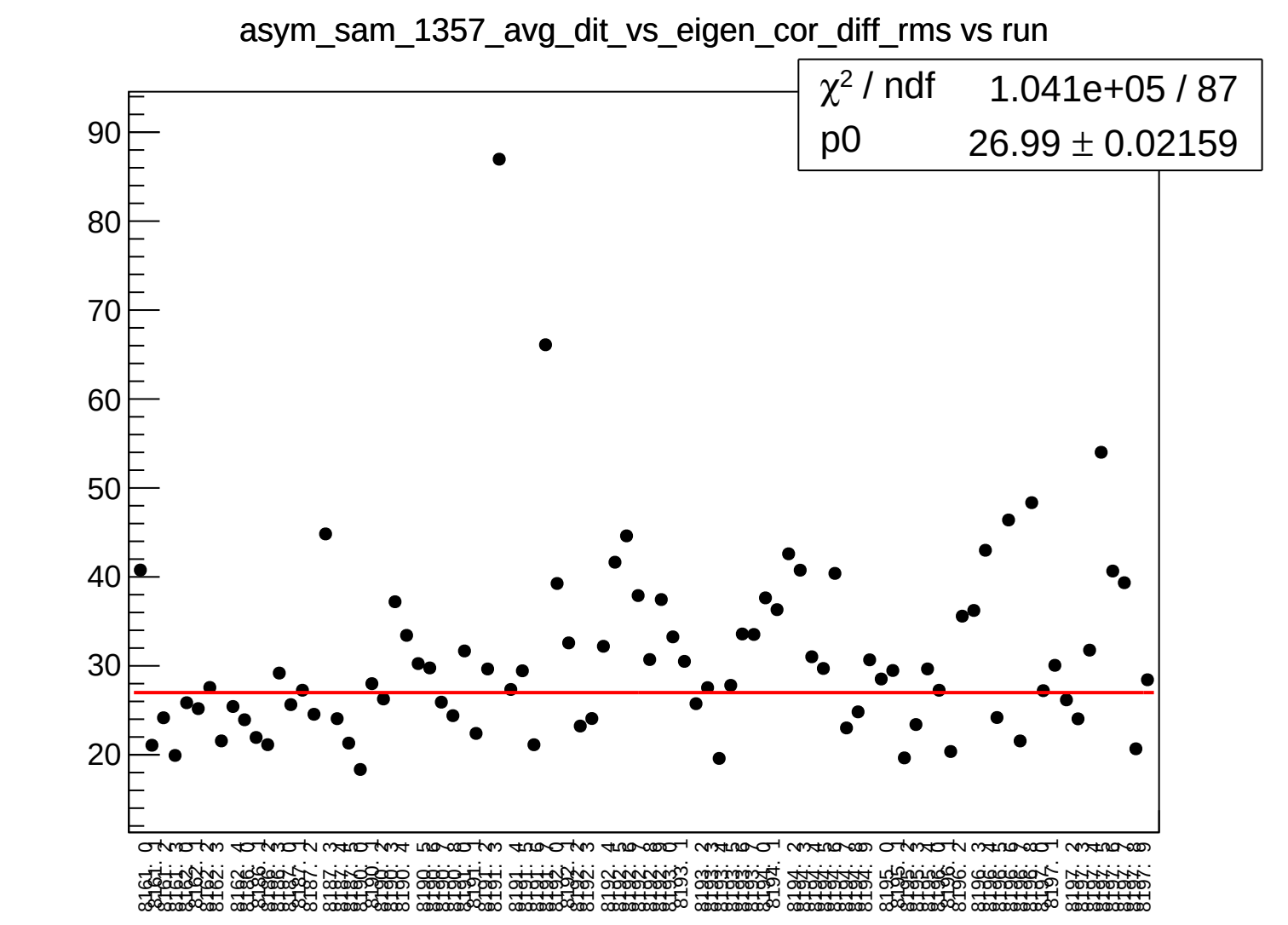

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.62 / 87
p0 7.028e−14 ± 8.524e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 26.37
Std Dev 20.94
pull1D
Entries 88
Mean 0.0697
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

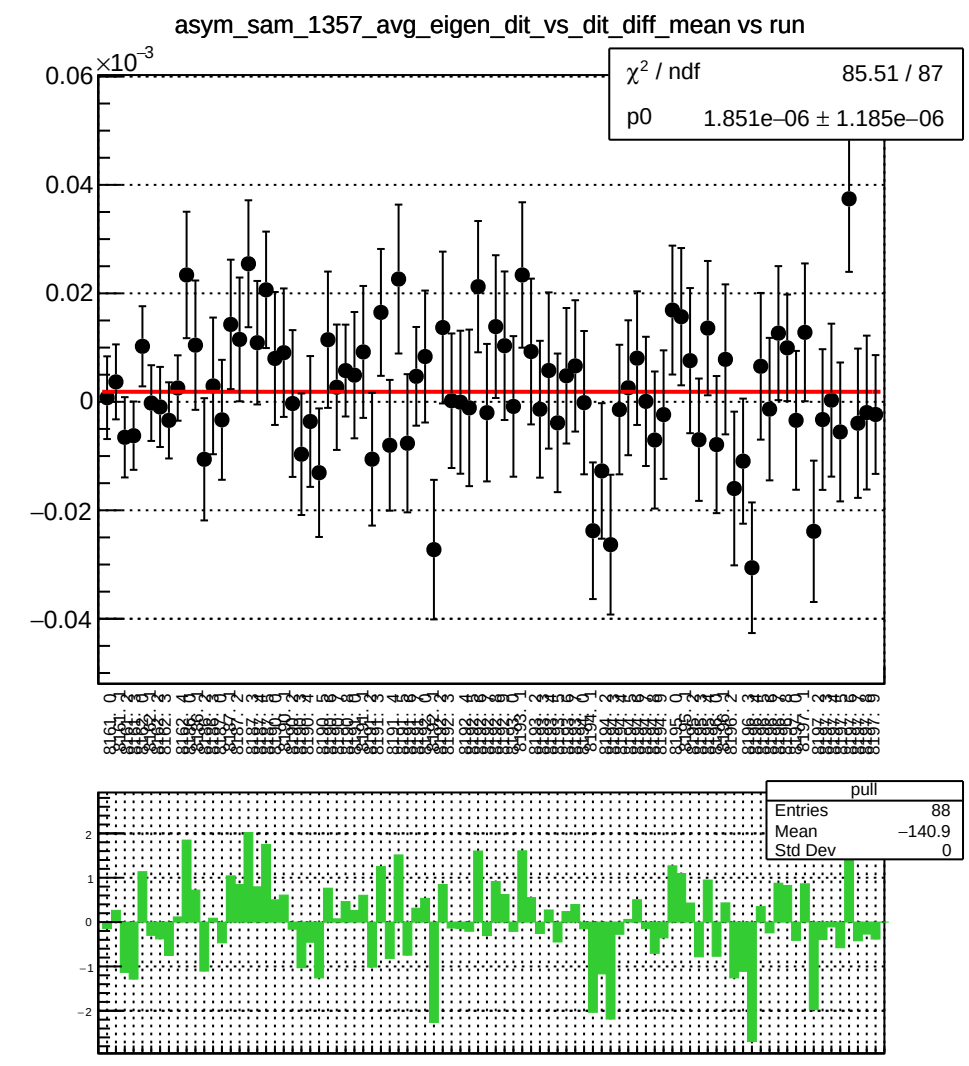

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.508e+05 / 87
p0 5.1e−11 ± 6.027e−14
0.1
0.08
0.06
0.04
0.02
0

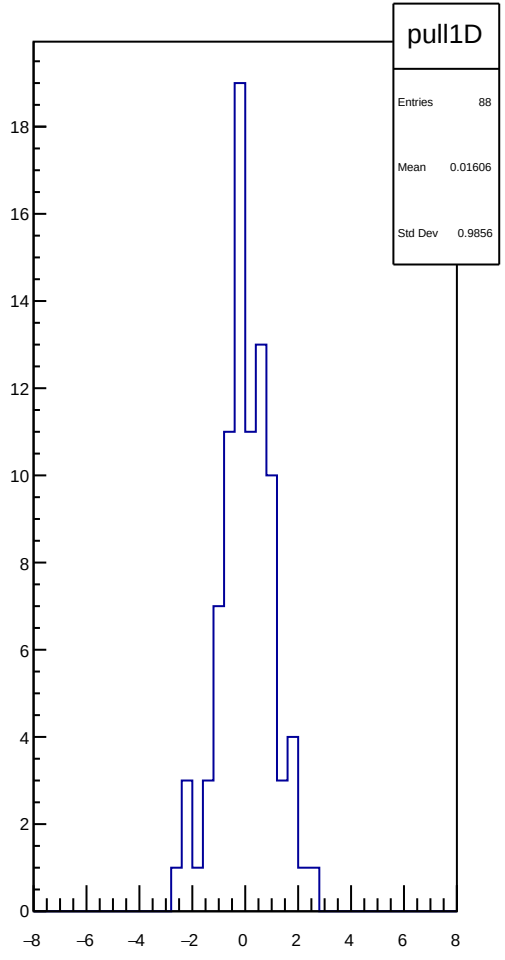

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.49 / 87
p0 −0.1188 ± 0.03054
pull
Entries 88
Mean 2518
Std Dev 0
pull1D
Entries 88
Mean 0.001214
Std Dev 1.003

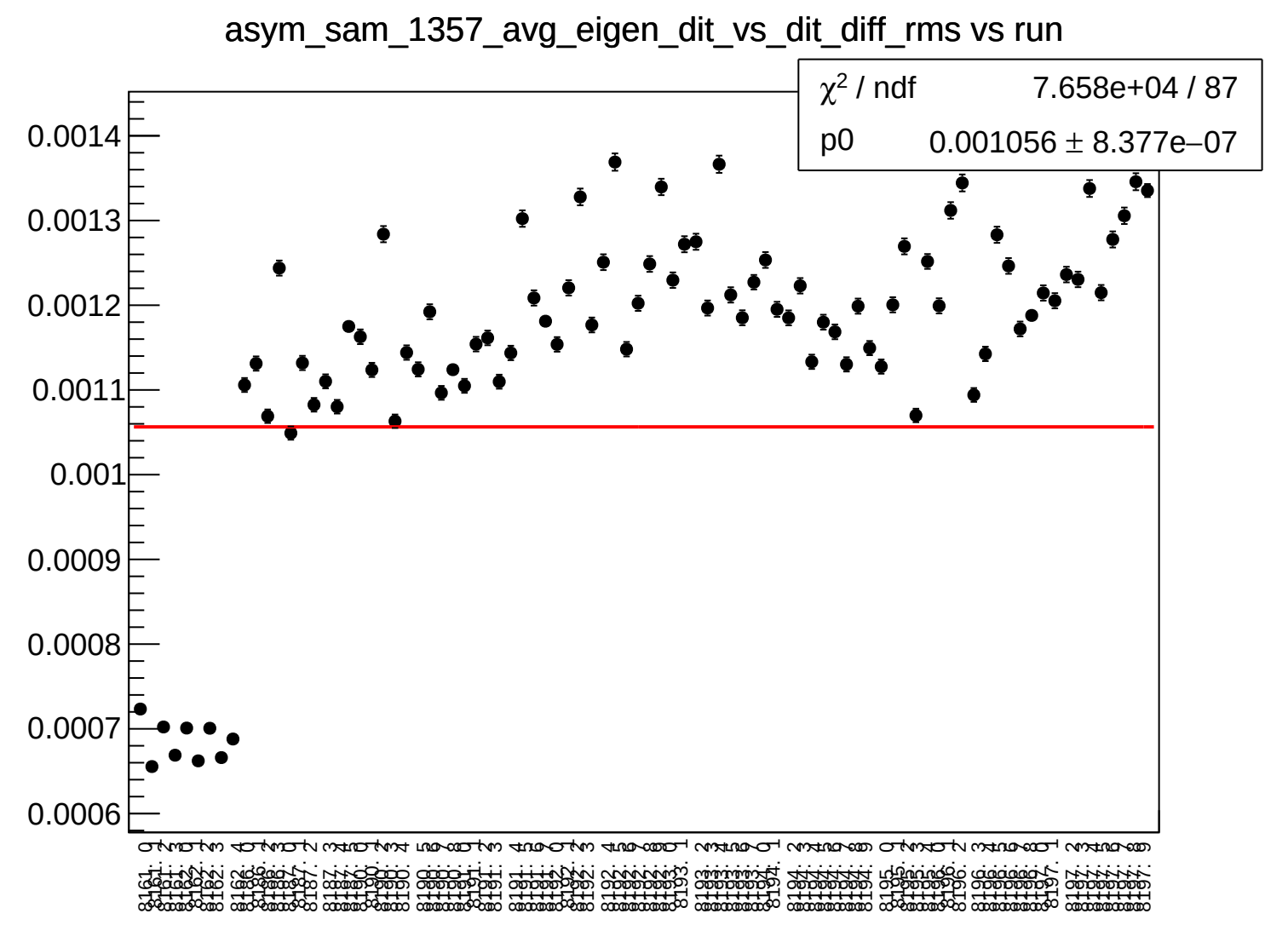

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.041e+05 / 87
p0 26.99 ± 0.02159
90
80
70
60
50
40
30
20

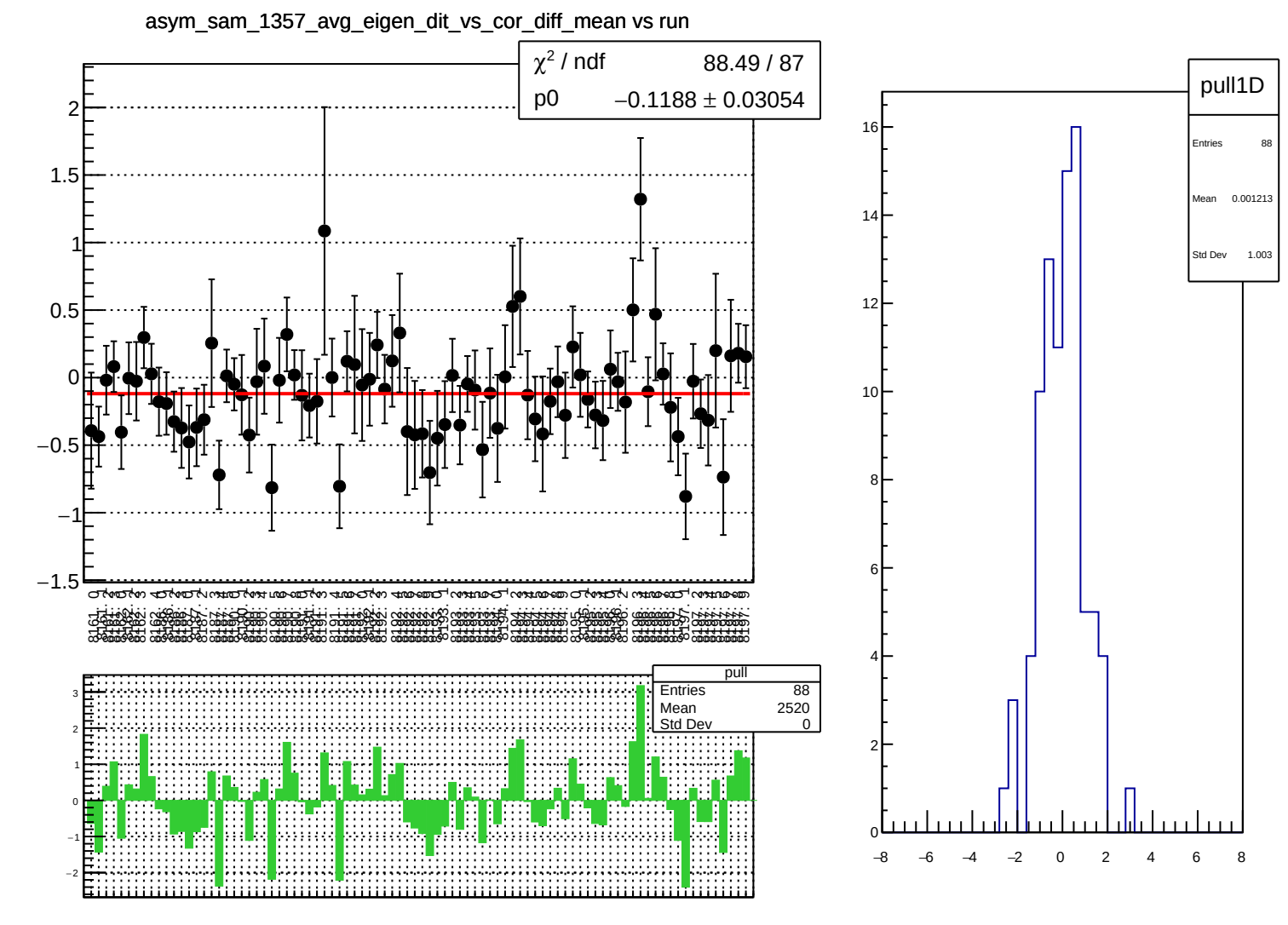

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.49 / 87
p0 −0.1188 ± 0.03054
pull
Entries 88
Mean 2518
Std Dev 0
pull1D
Entries 88
Mean 0.001214
Std Dev 1.003

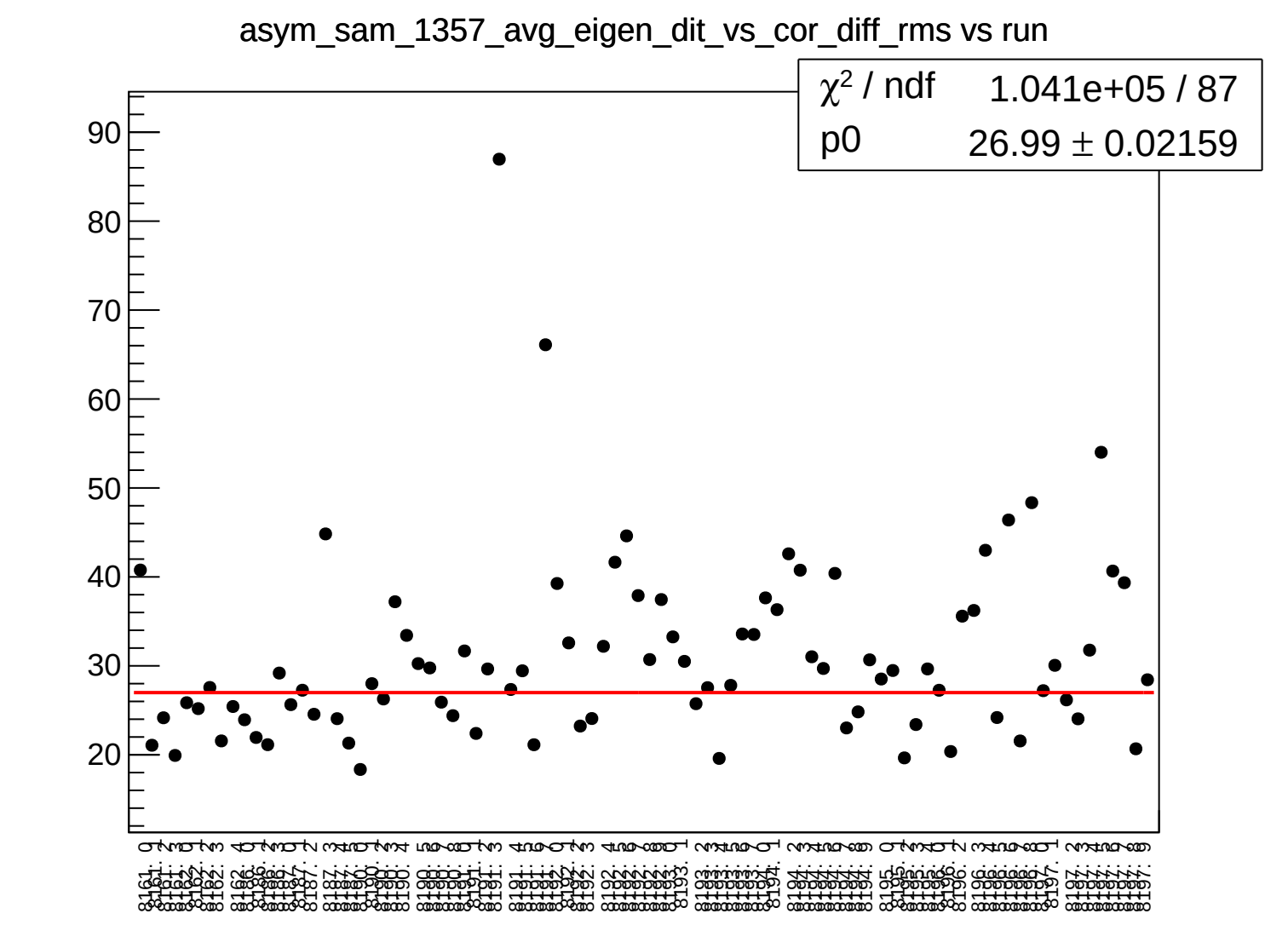

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 87
p0 26.99 ± 0.02159
90
80
70
60
50
40
30
20

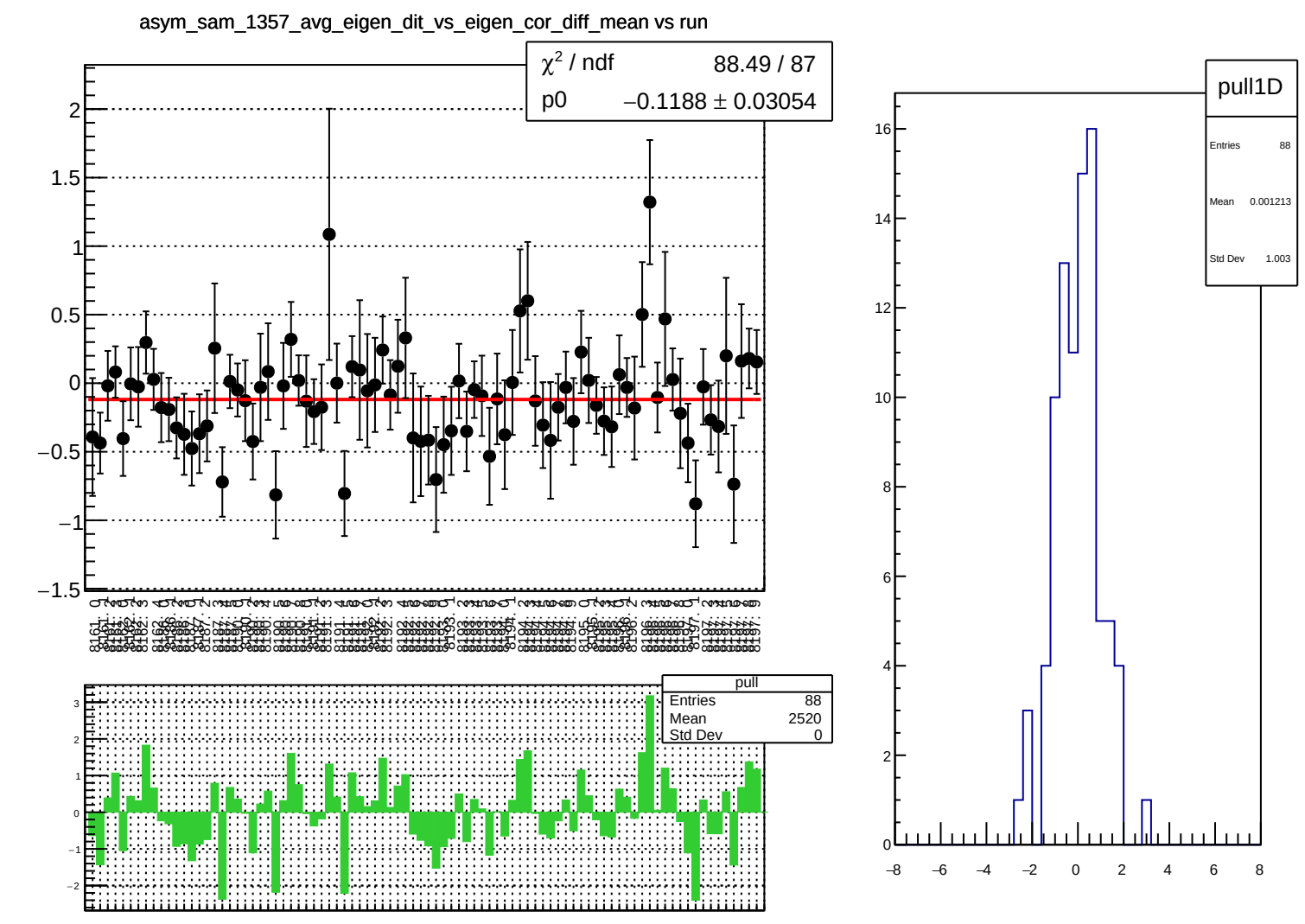

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.51 / 87
p0 1.851e−06 ± 1.185e−06
pull
Entries 88
Mean −140.9
Std Dev 0

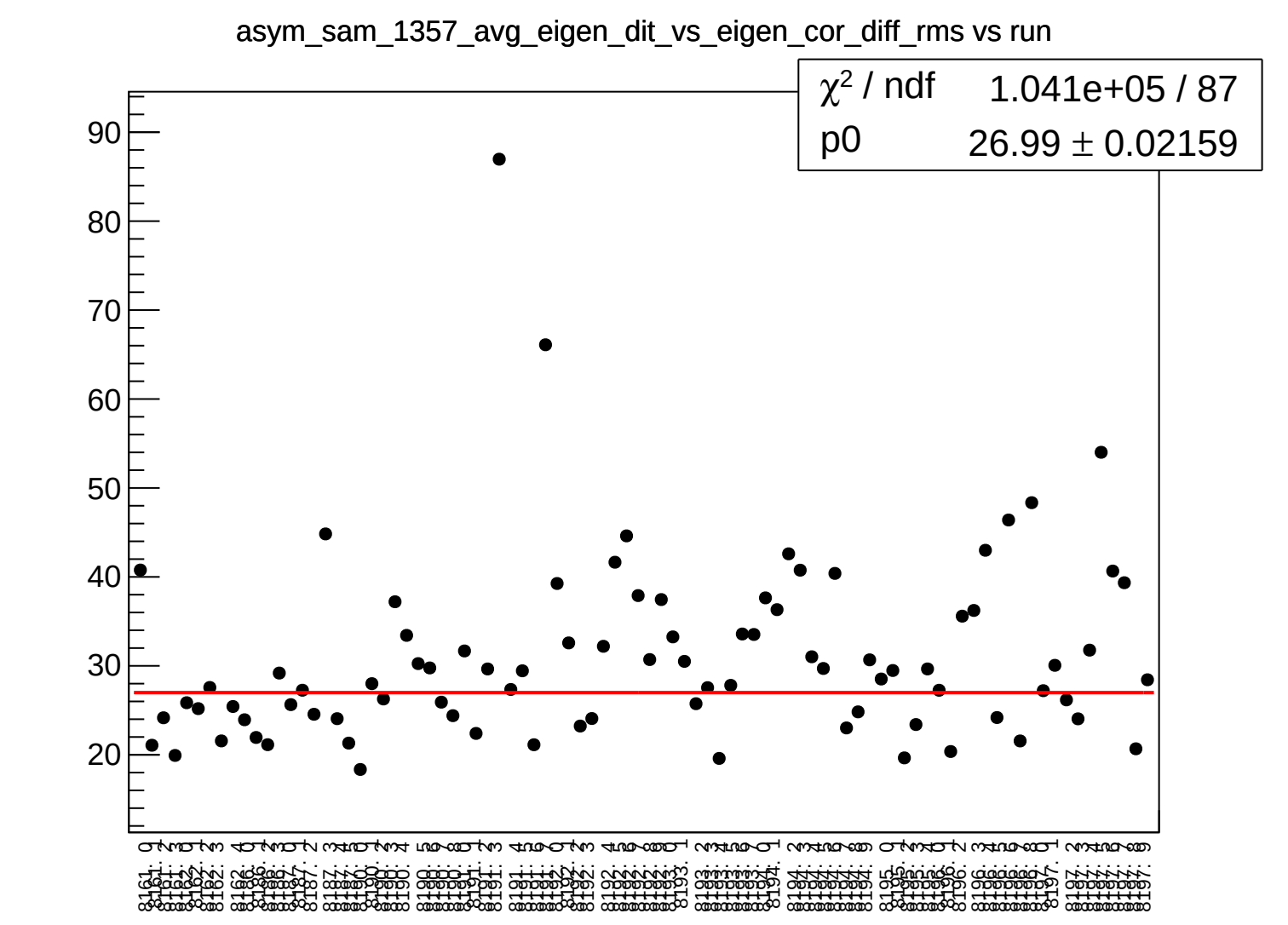

pull1D
Entries 88
Mean 0.01606
Std Dev 0.9856

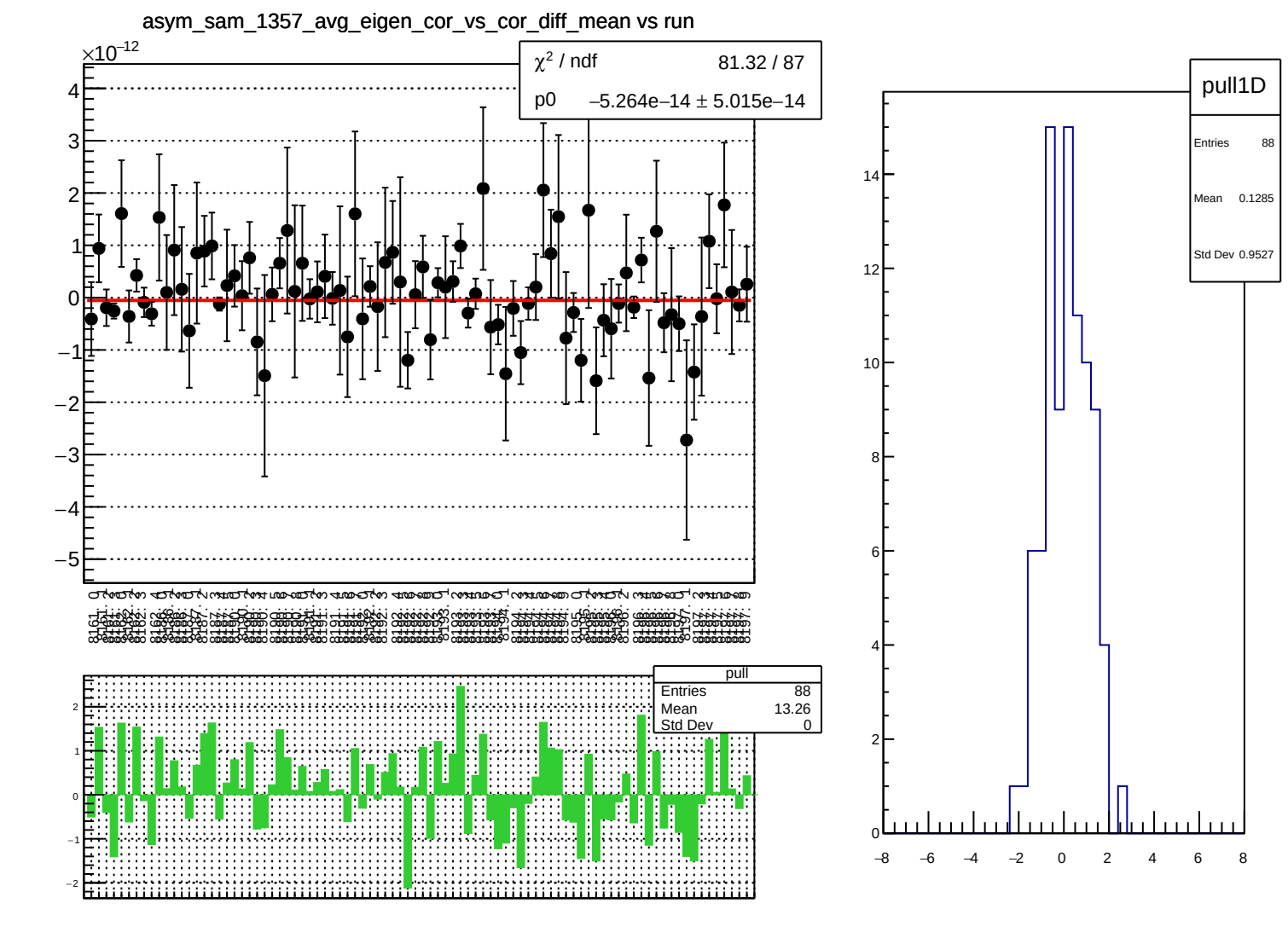

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 7.658e+04 / 87
p0 0.001056 ± 8.377e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006

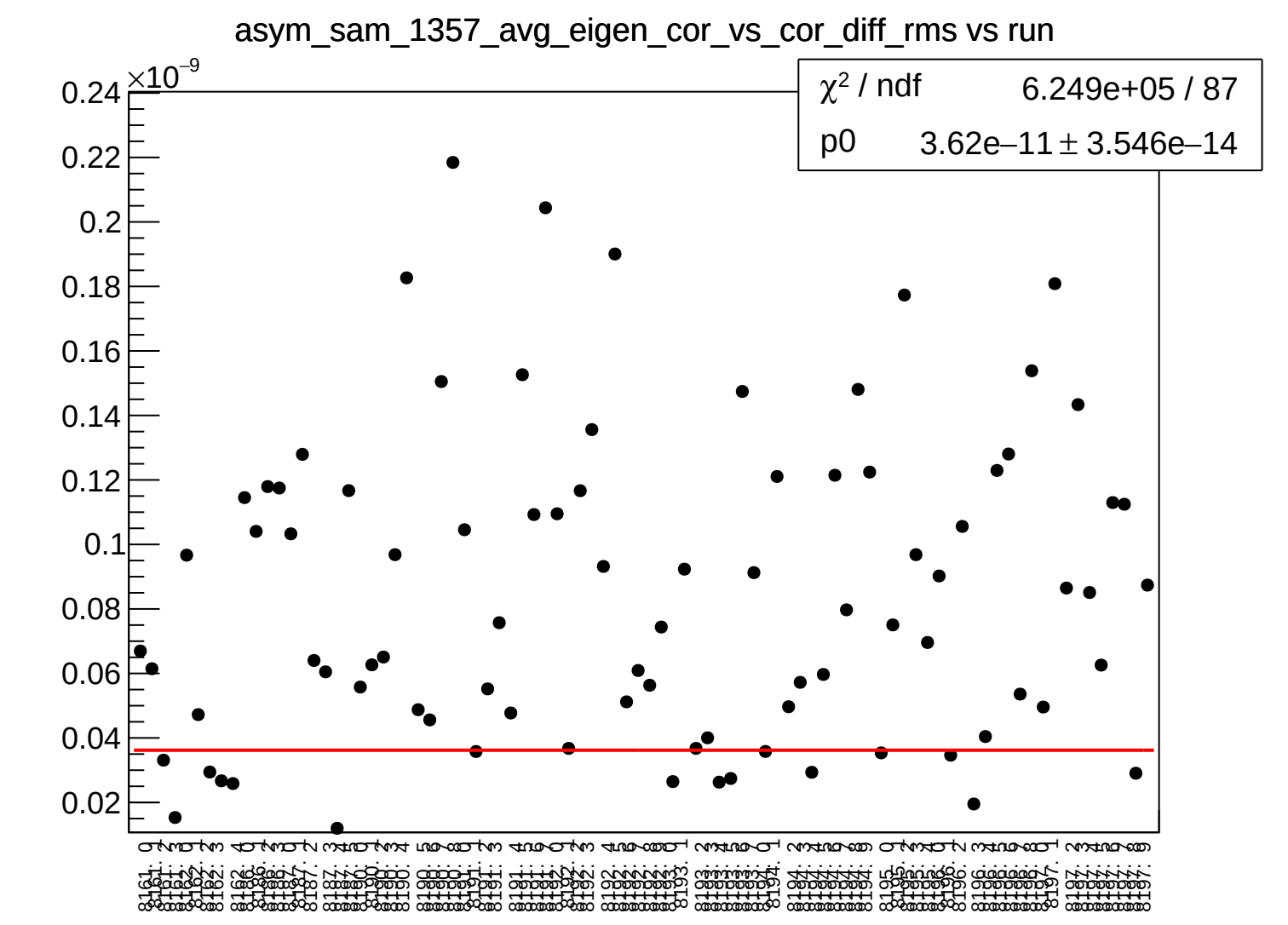

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.49 / 87
p0 −0.1188 ± 0.03054
pull
Entries 88
Mean 2520
Std Dev 0
pull1D
Entries 88
Mean 0.001213
Std Dev 1.003

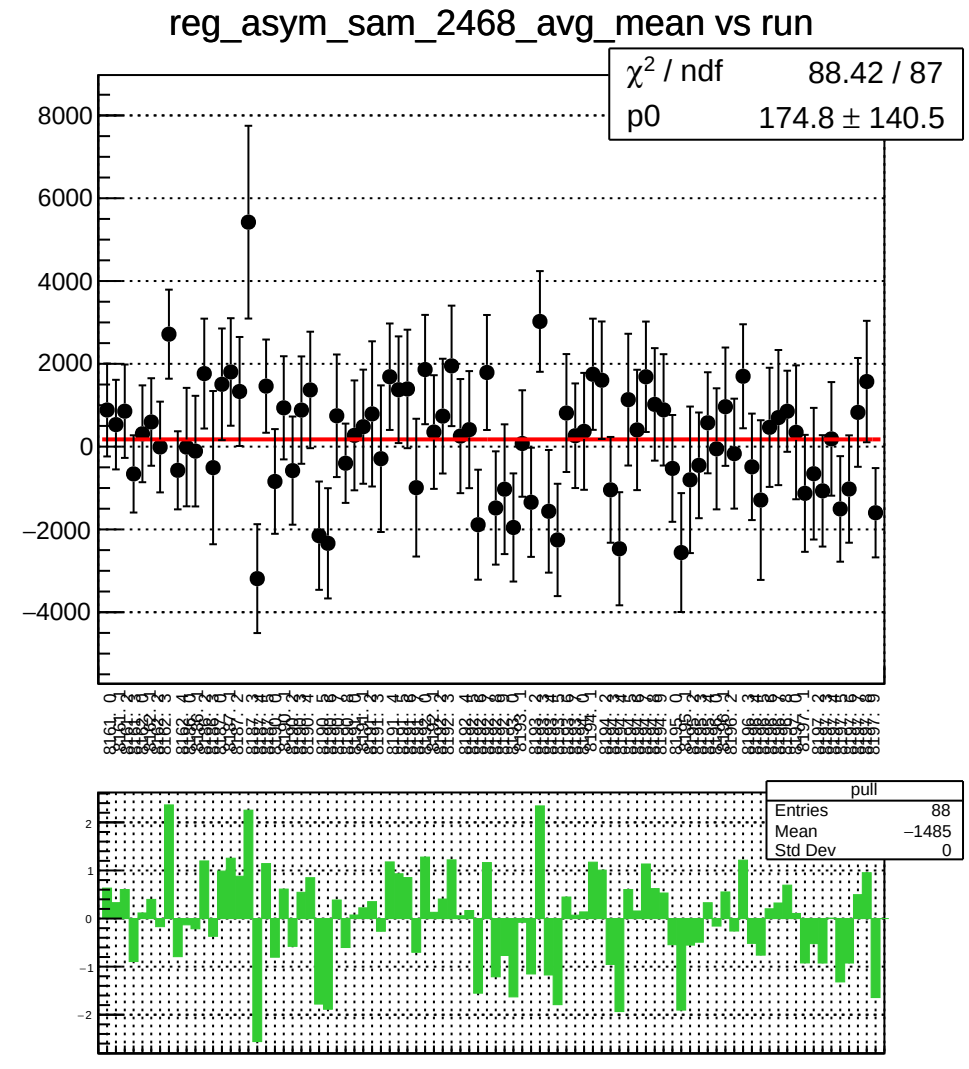

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 87
p0 26.99 ± 0.02159
90
80
70
60
50
40
30
20

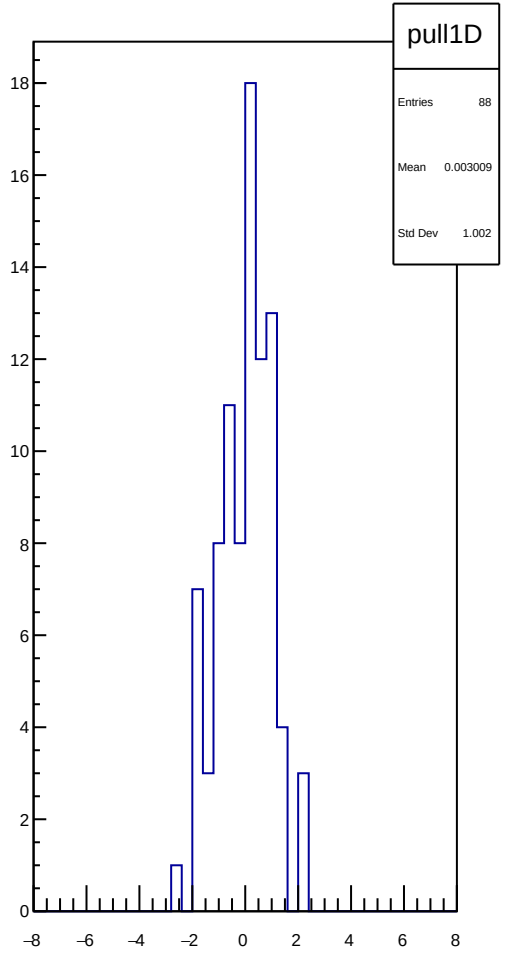

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.49 / 87
p0 −0.1188 ± 0.03054
pull
Entries 88
Mean 2520
Std Dev 0
pull1D
Entries 88
Mean 0.001213
Std Dev 1.003

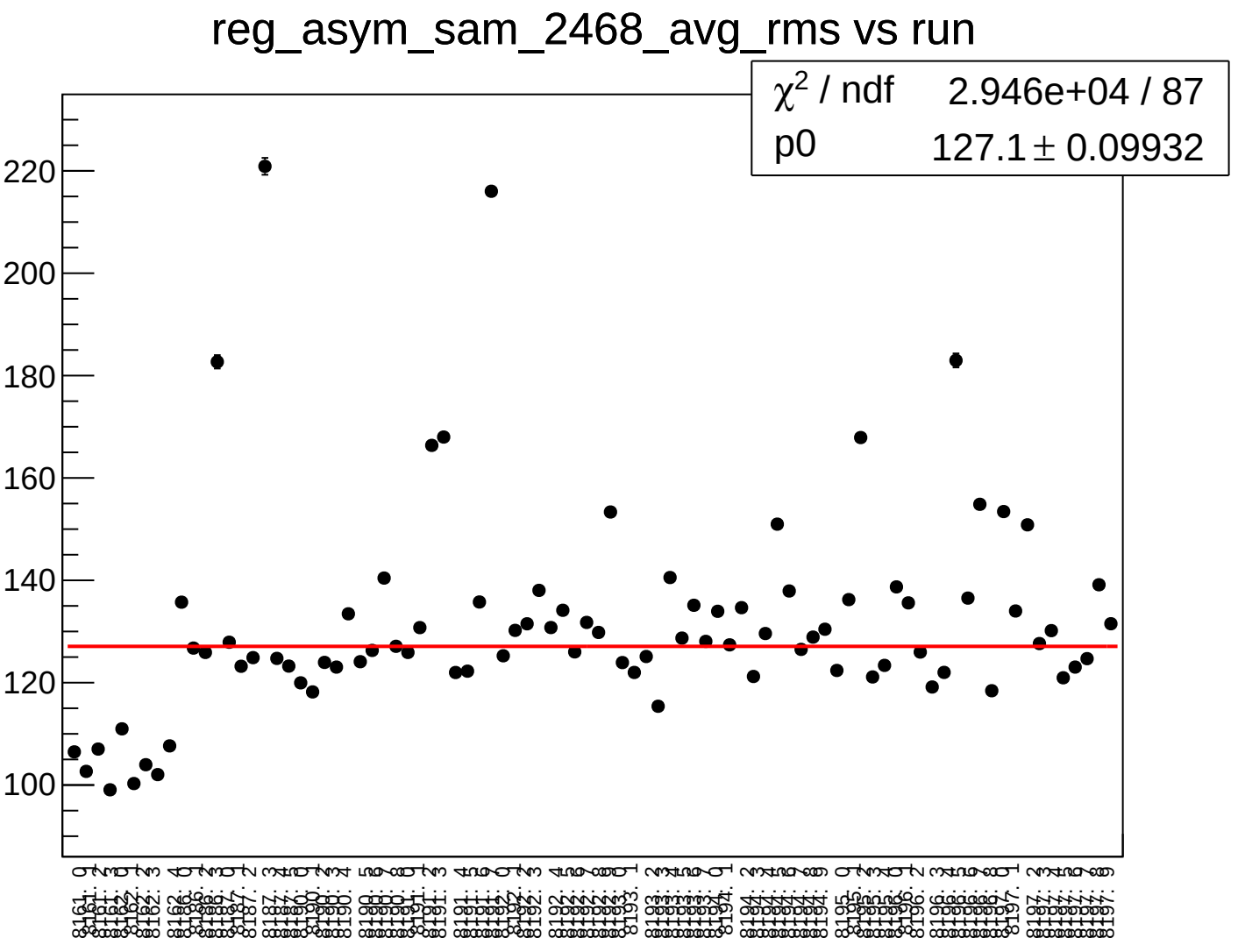

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 87
p0 26.99 ± 0.02159
90
80
70
60
50
40
30
20

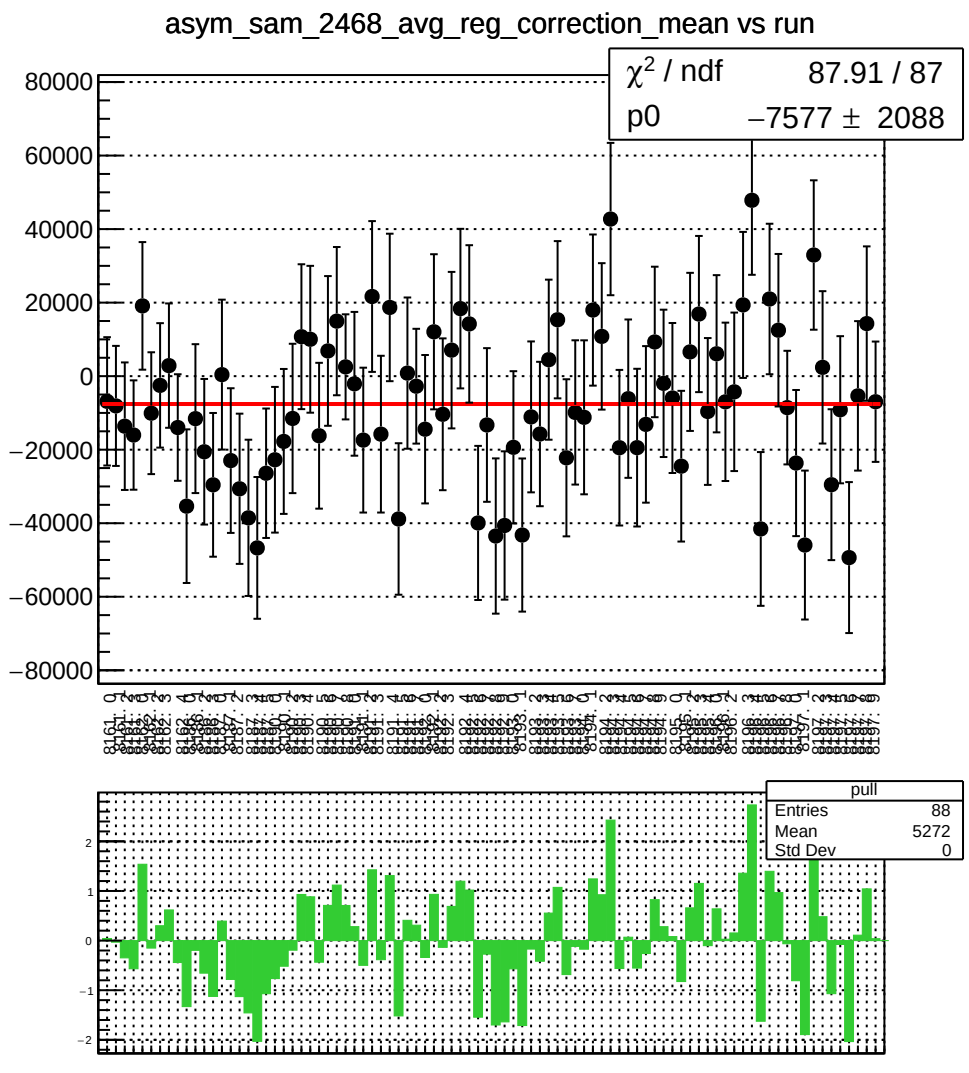

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.32 / 87
p0 −5.264e−14 ± 5.015e−14
pull
Entries 88
Mean 13.26
Std Dev 0
pull1D
Entries 88
Mean 0.1285
Std Dev 0.9527

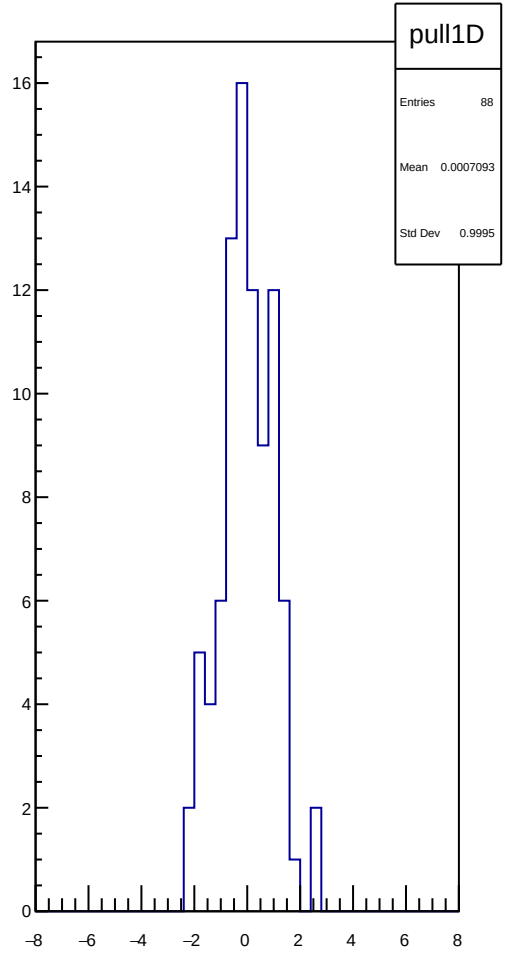

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.249e+05 / 87
p0 3.62e−11 ± 3.546e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

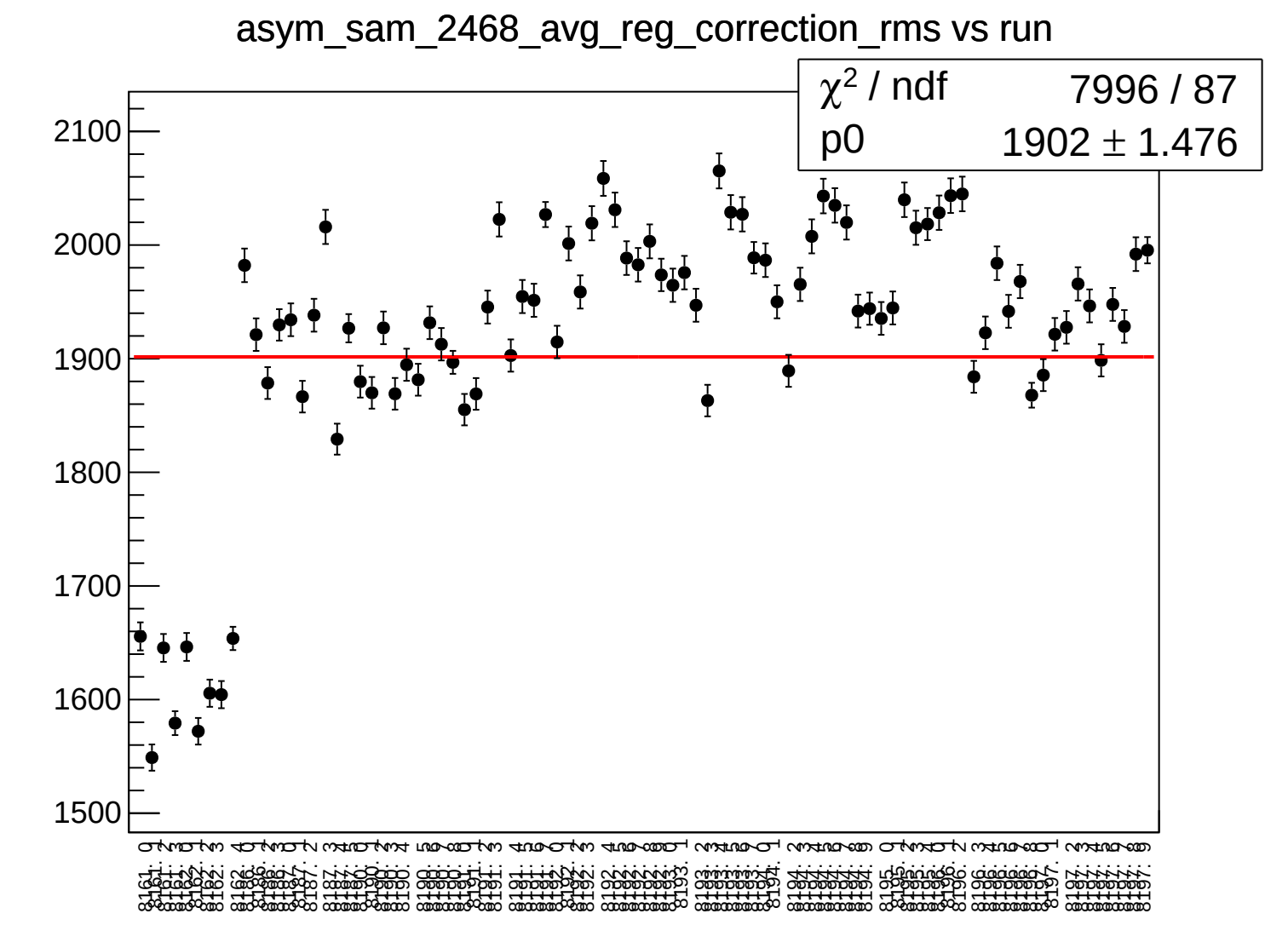

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 88.42 / 87
p0 174.8 ± 140.5
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1485
Std Dev 0
2
1
0
−1
−2

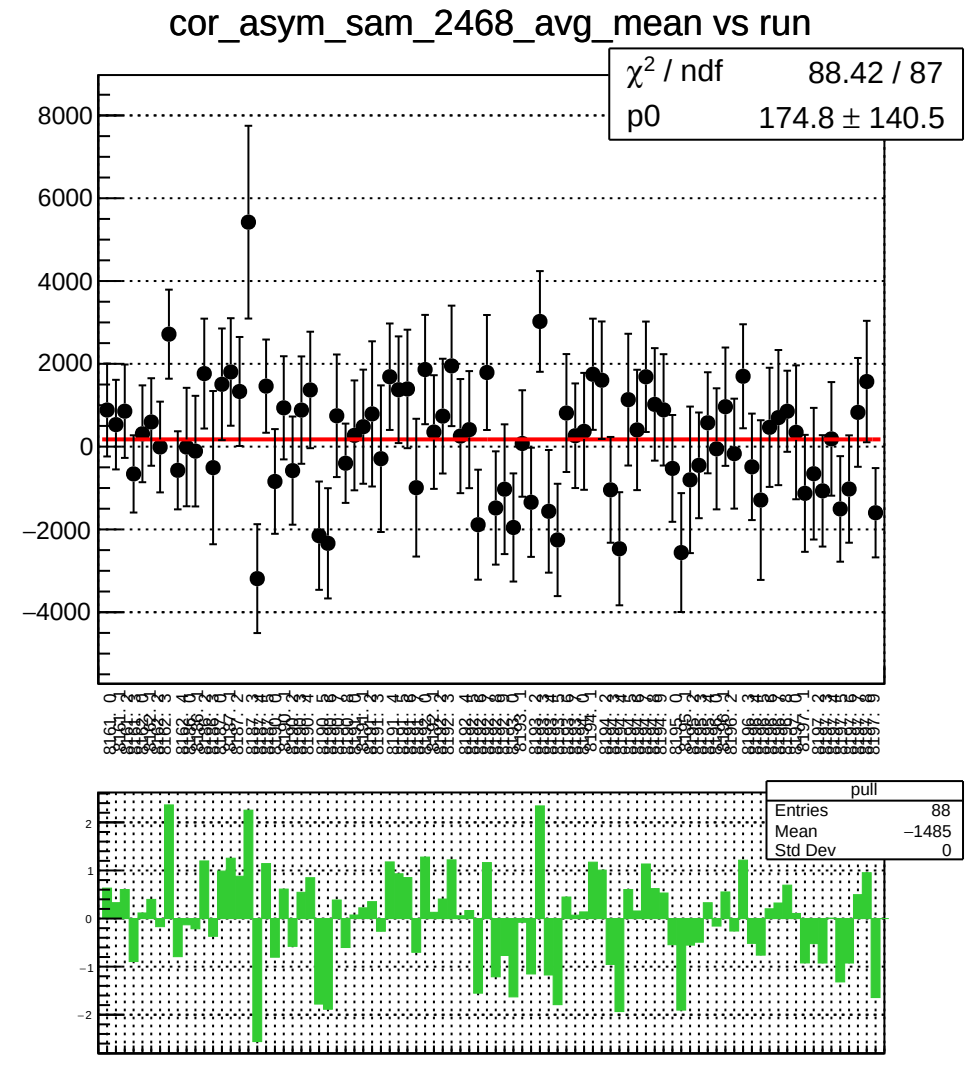

pull1D
Entries 88
Mean 0.003009
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

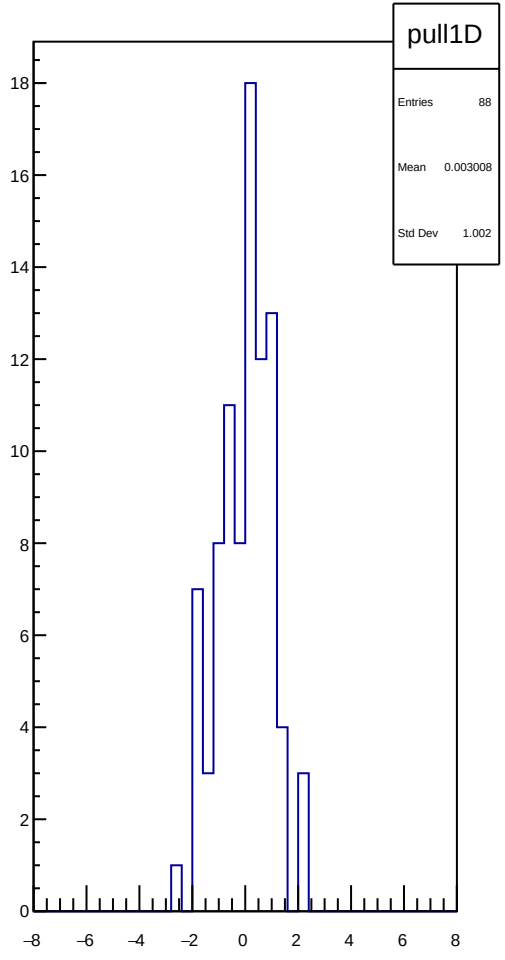

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.946e+04 / 87
p0 127.1 ± 0.09932
220
200
180
160
140
120
100

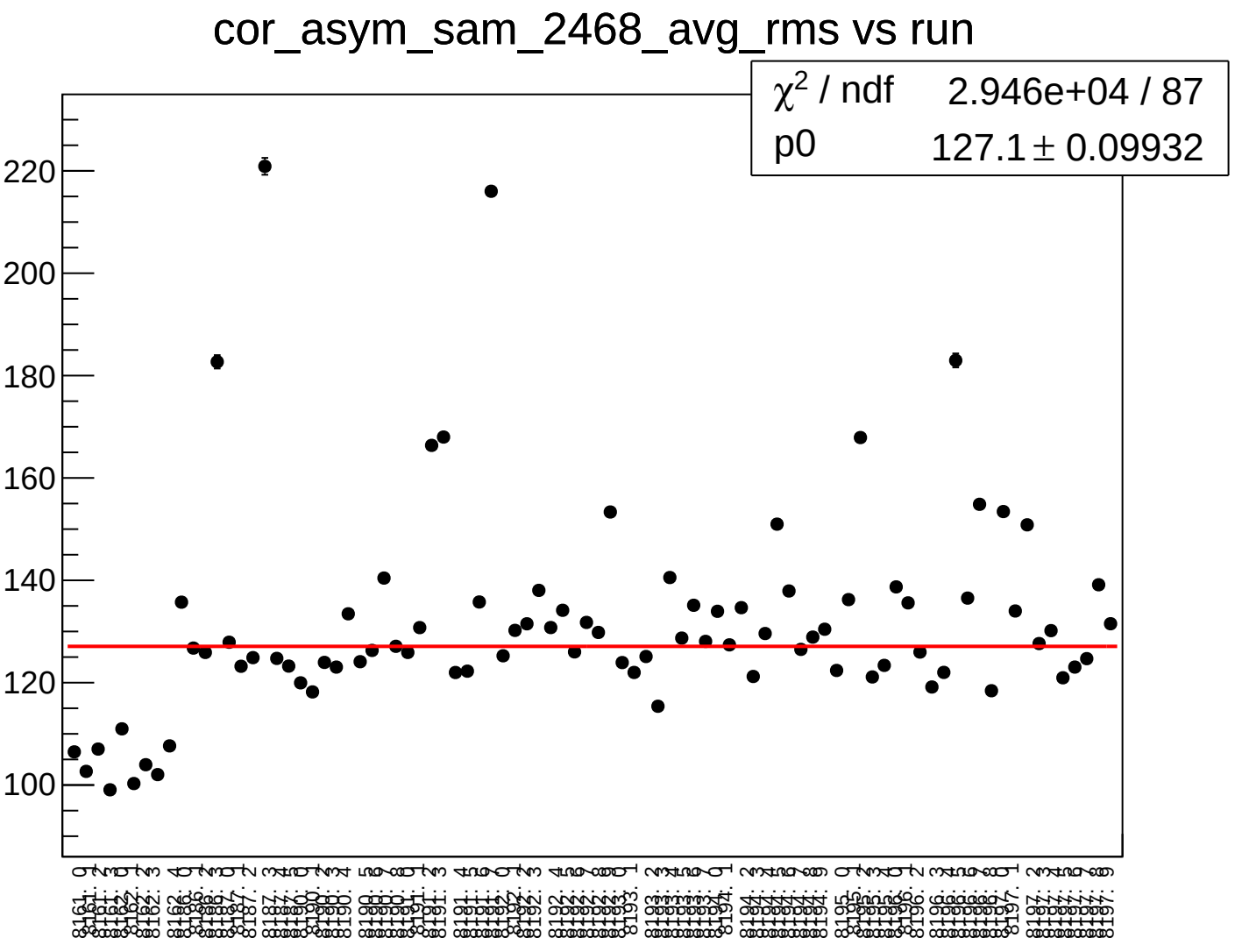

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 87.91 / 87
p0 −7577 ± 2088
pull
Entries 88
Mean 5272
Std Dev 0

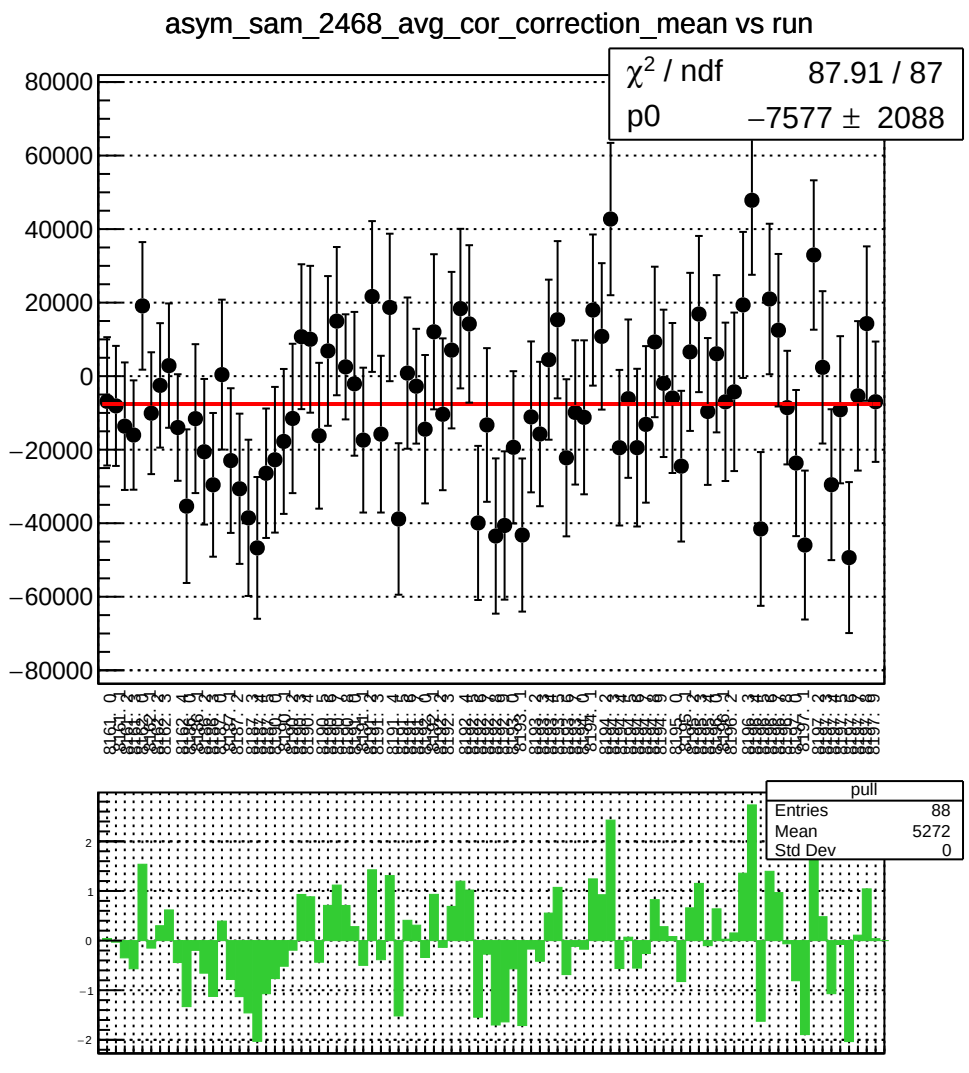

pull1D
Entries 88
Mean 0.0007093
Std Dev 0.9995

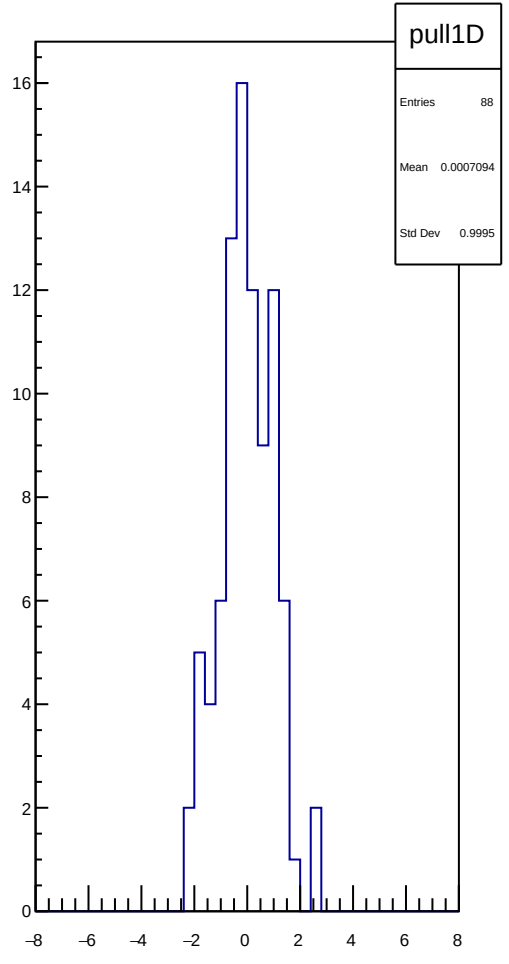

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 7996 / 87
p0 1902 ± 1.476
2100
2000
1900
1800
1700
1600
1500

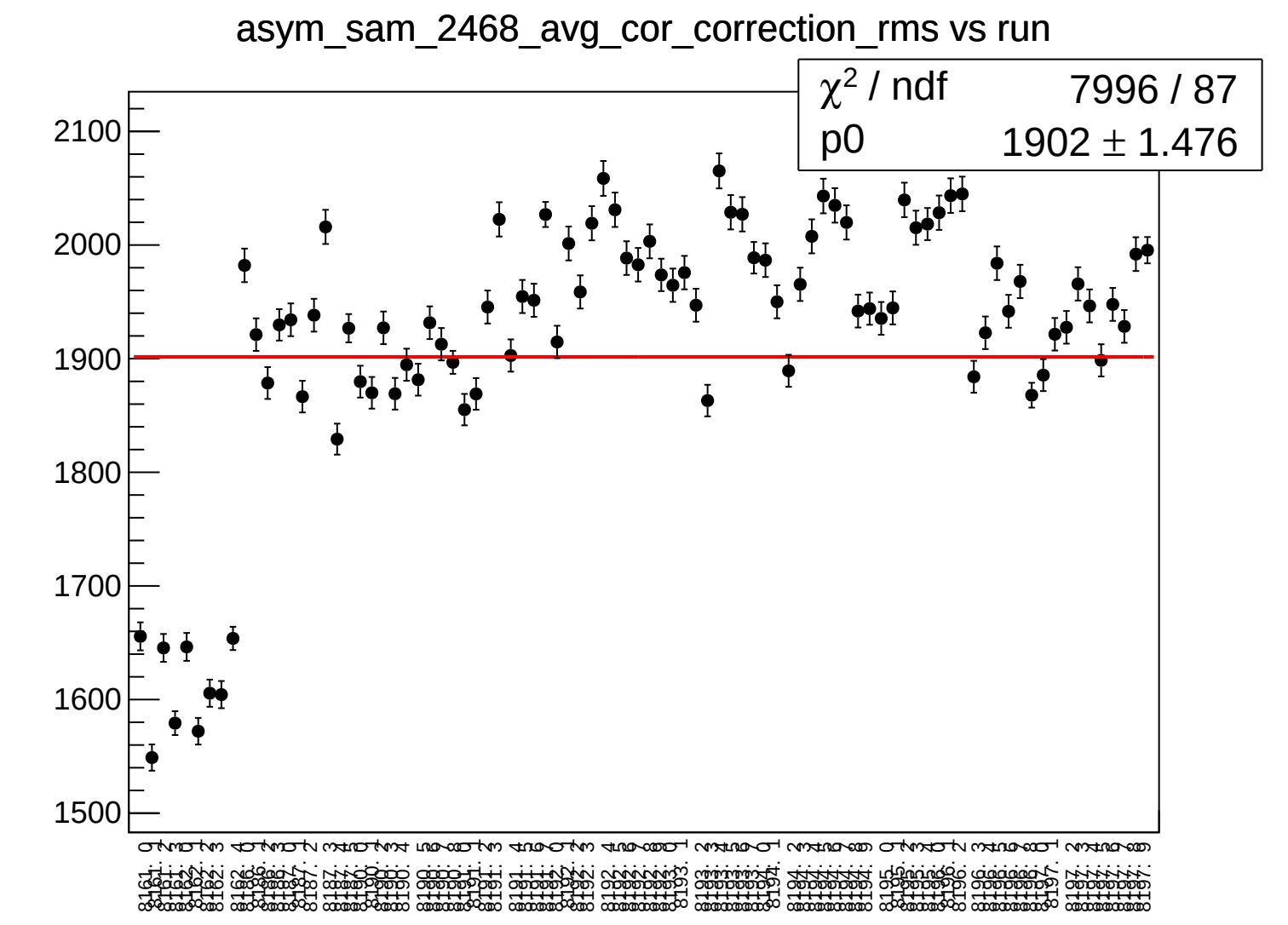

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 88.42 / 87
p0 174.8 ± 140.5
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1485
Std Dev 0
2
1
0
−1
−2

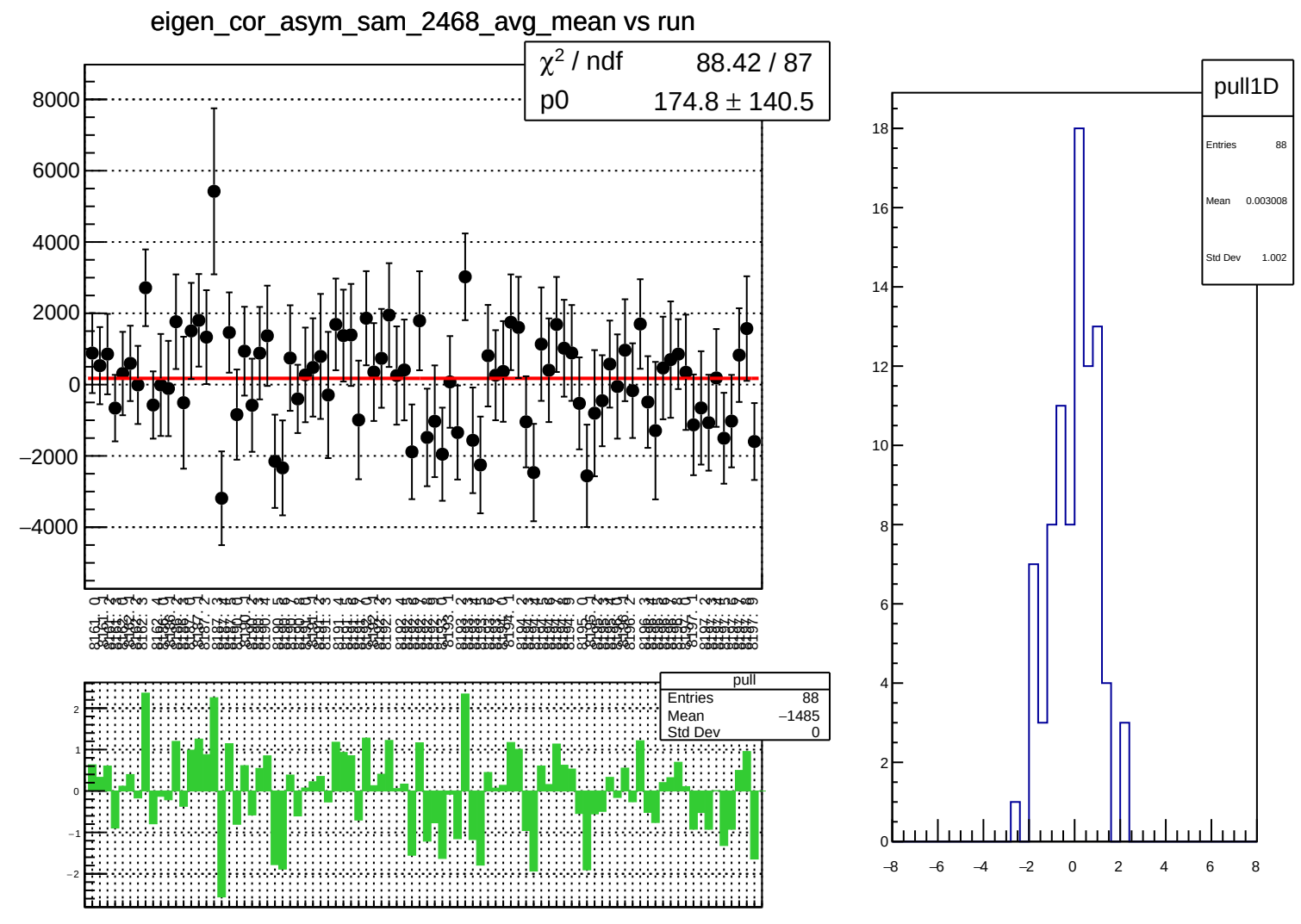

pull1D
Entries 88
Mean 0.003008
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

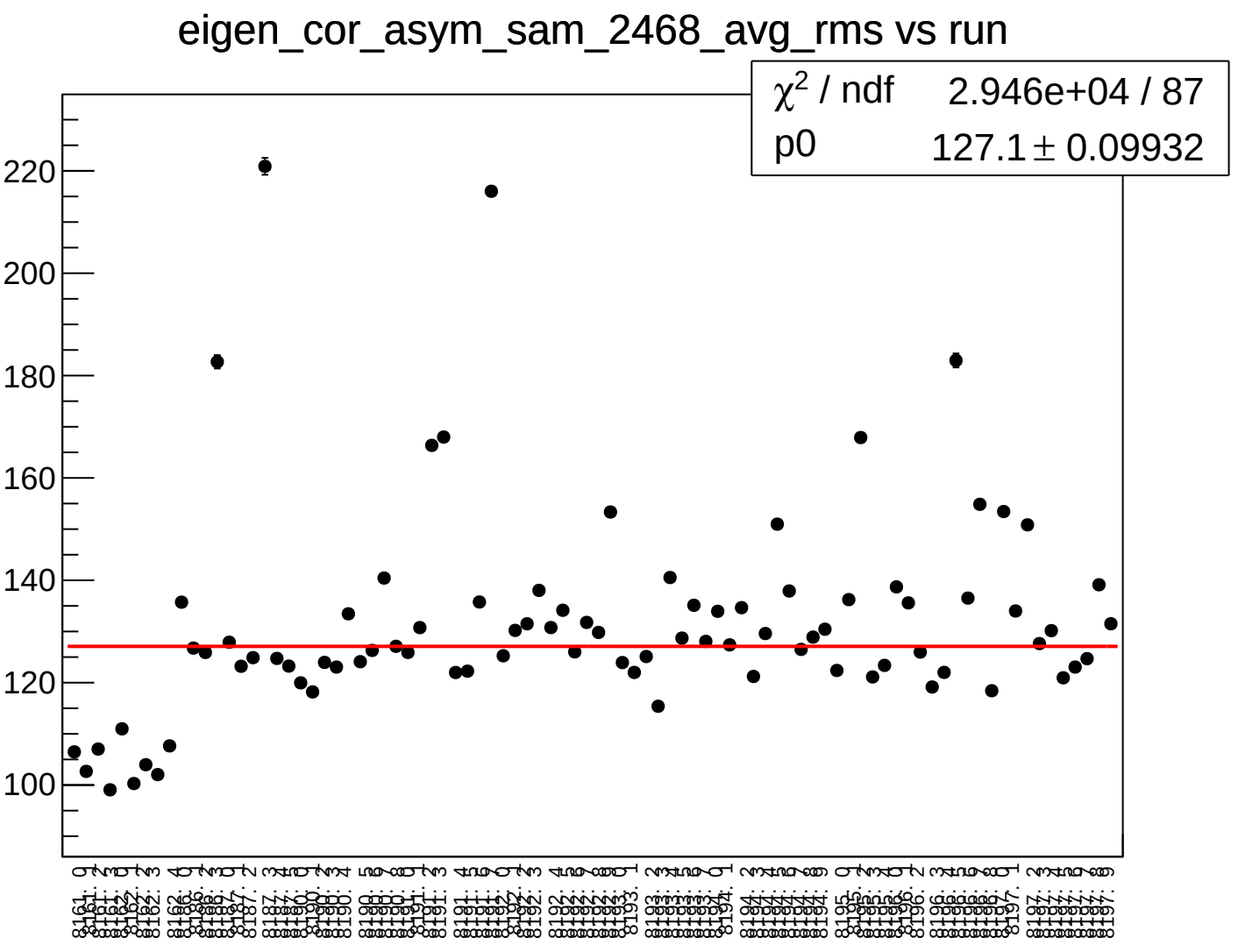

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.946e+04 / 87
p0 127.1 ± 0.09932
220
200
180
160
140
120
100

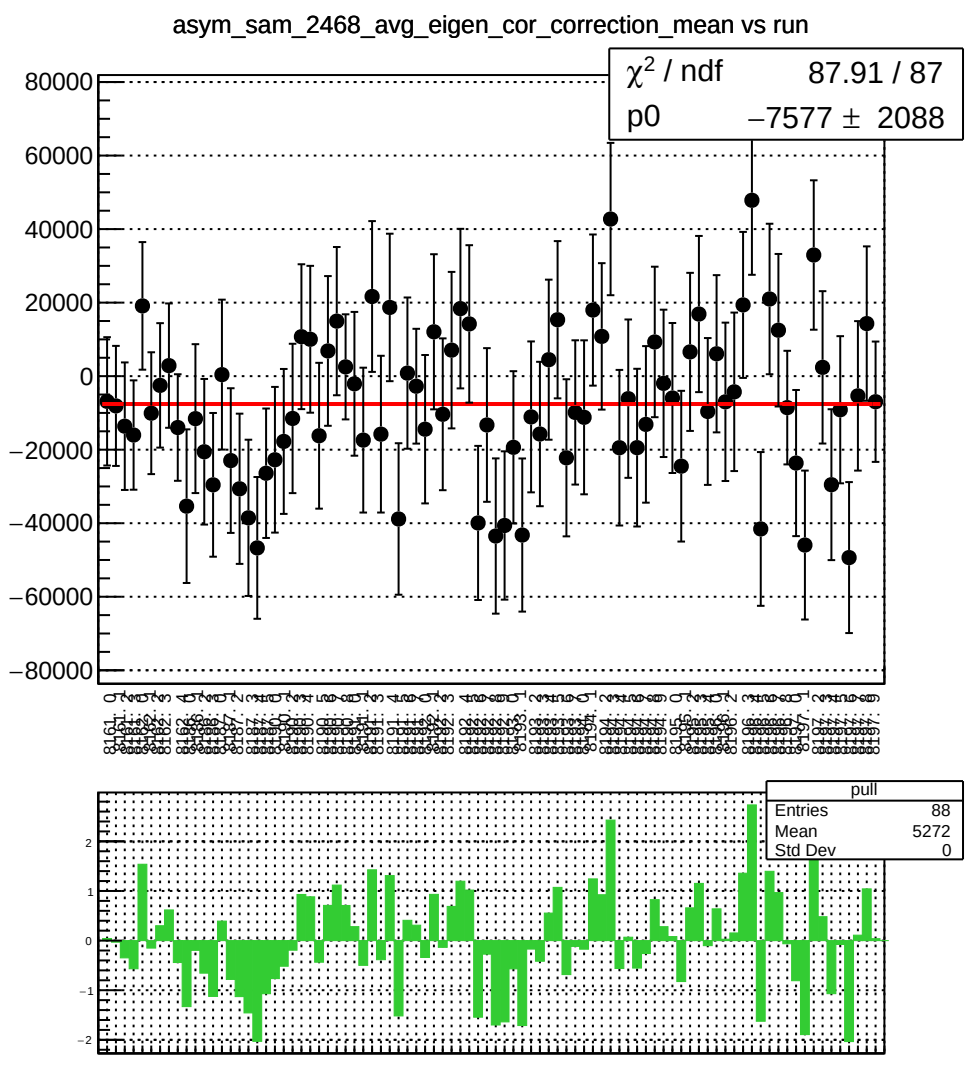

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 87.91 / 87
p0 −7577 ± 2088
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 5272
Std Dev 0
2
1
0
−1
−2

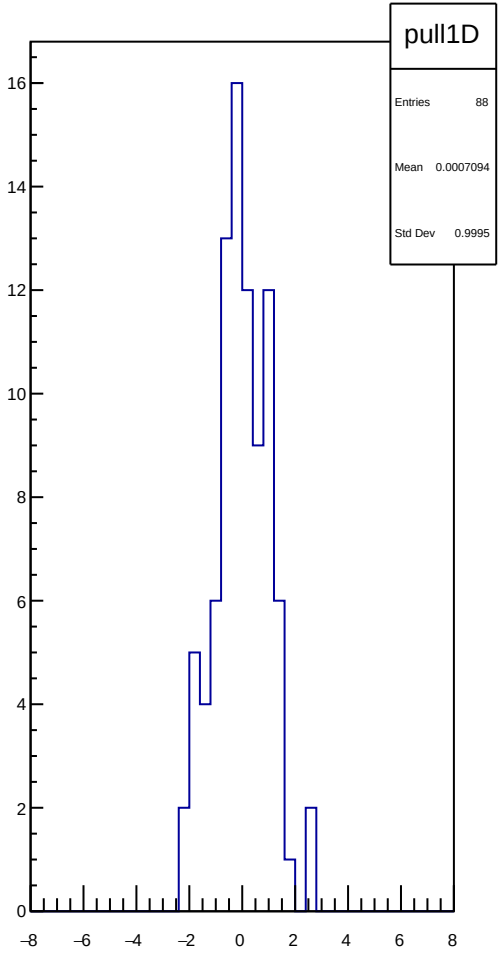

pull1D
Entries 88
Mean 0.0007094
Std Dev 0.9995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

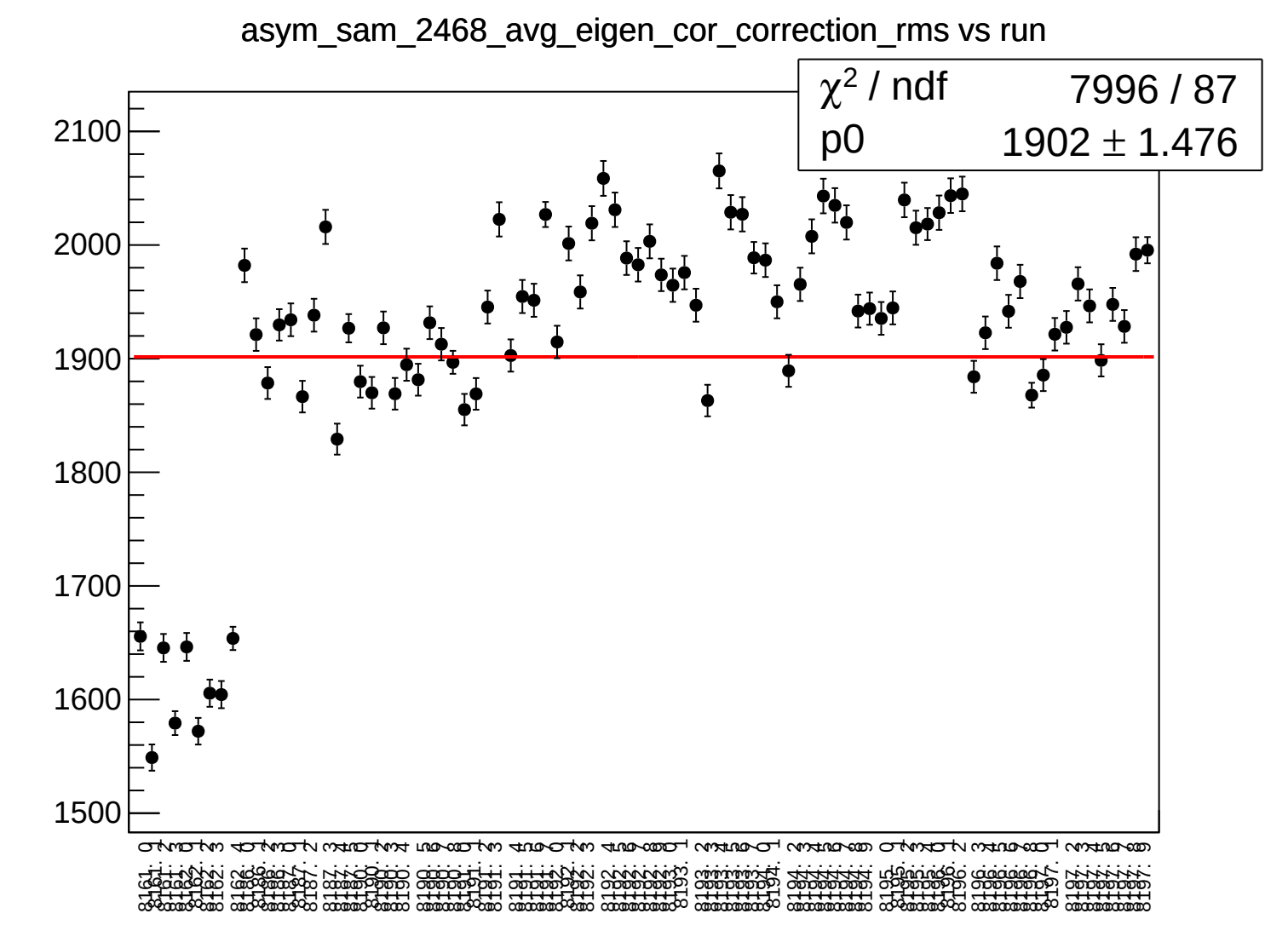

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 7996 / 87
p0 1902 ± 1.476
2100
2000
1900
1800
1700
1600
1500

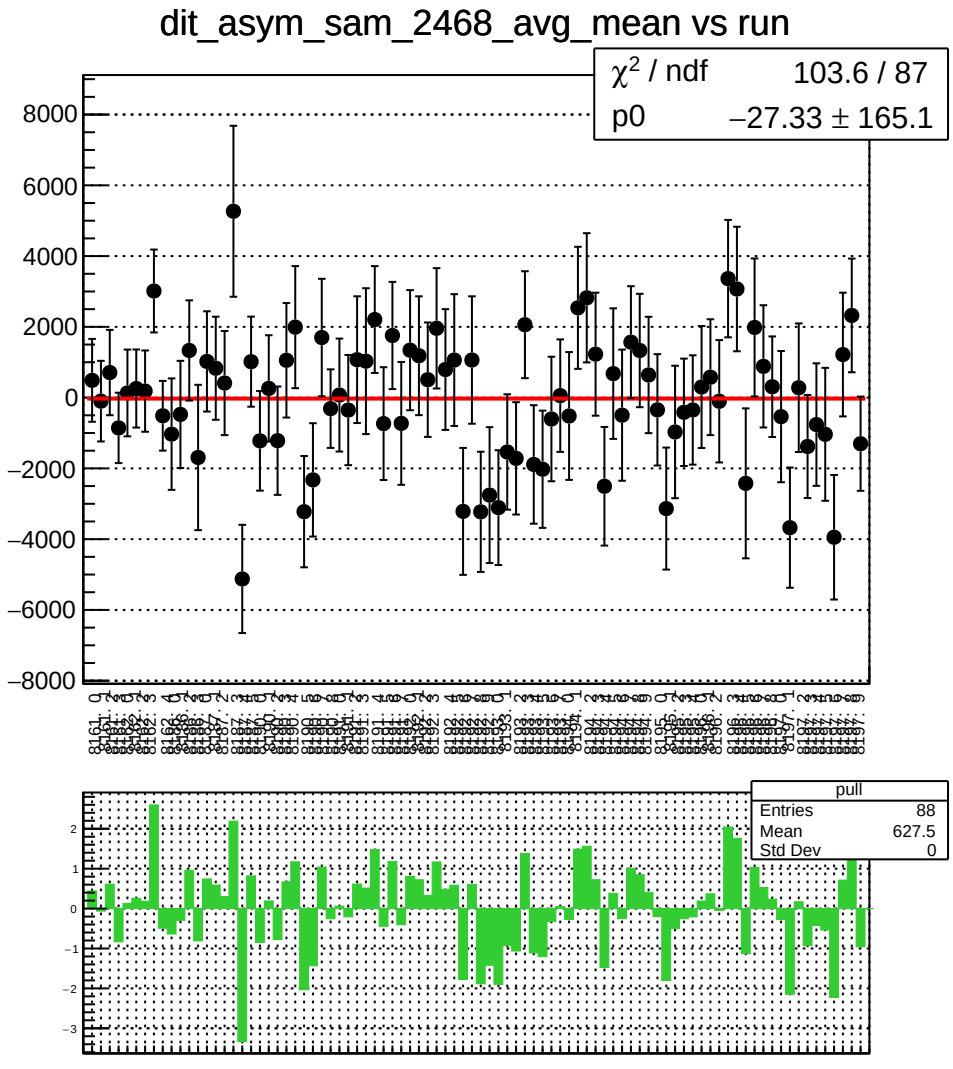

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 88.42 / 87
p0 174.8 ± 140.5
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −1485
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.003008
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

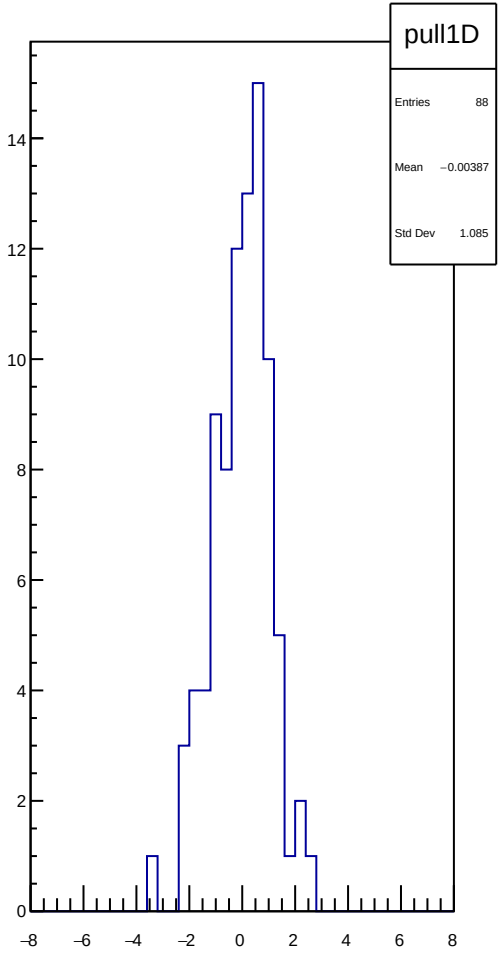

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.946e+04 / 87
p0 127.1 ± 0.09932
220
200
180
160
140
120
100

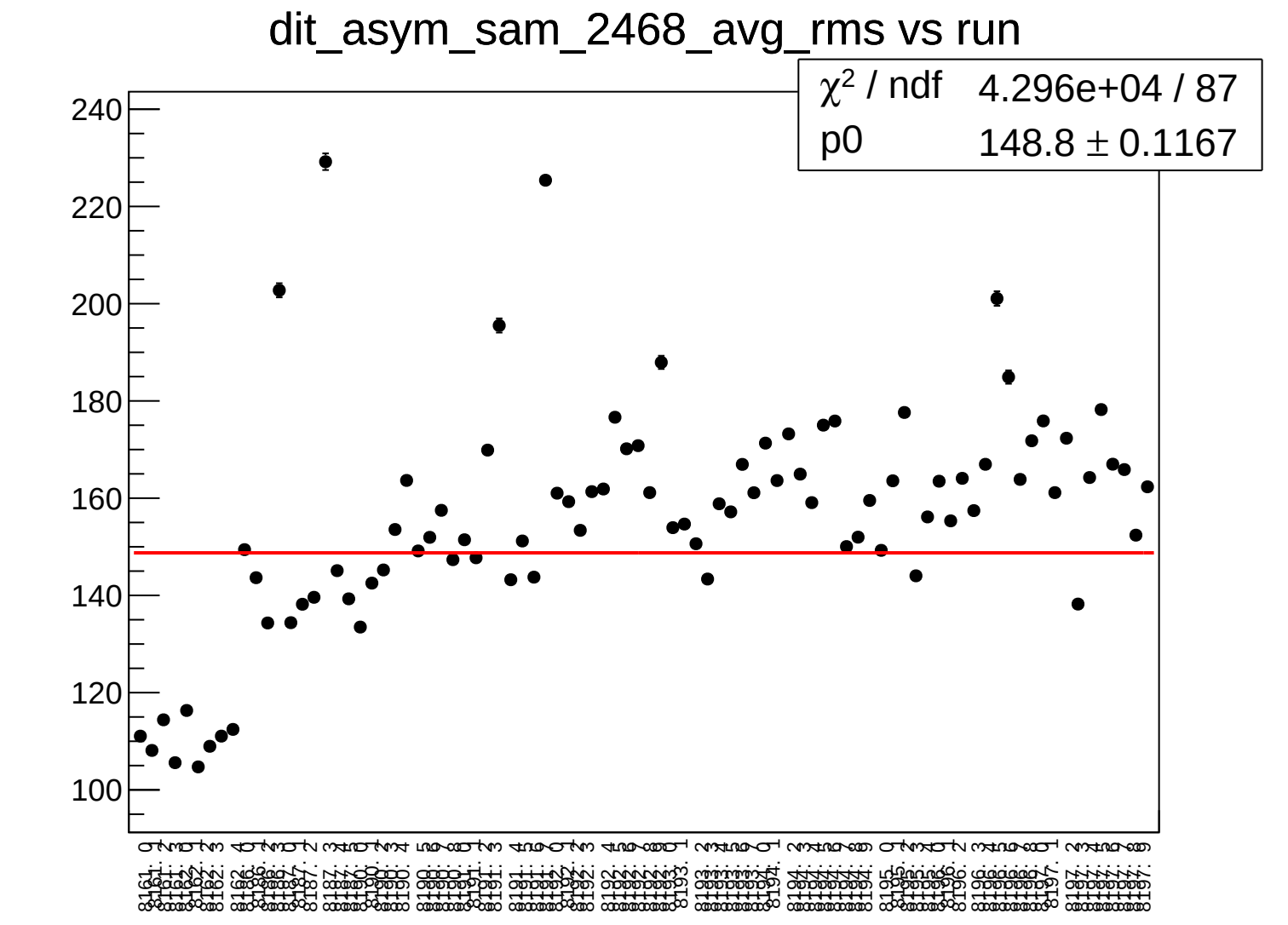

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.91 / 87
p0 −7577 ± 2088
pull
Entries 88
Mean 5272
Std Dev 0

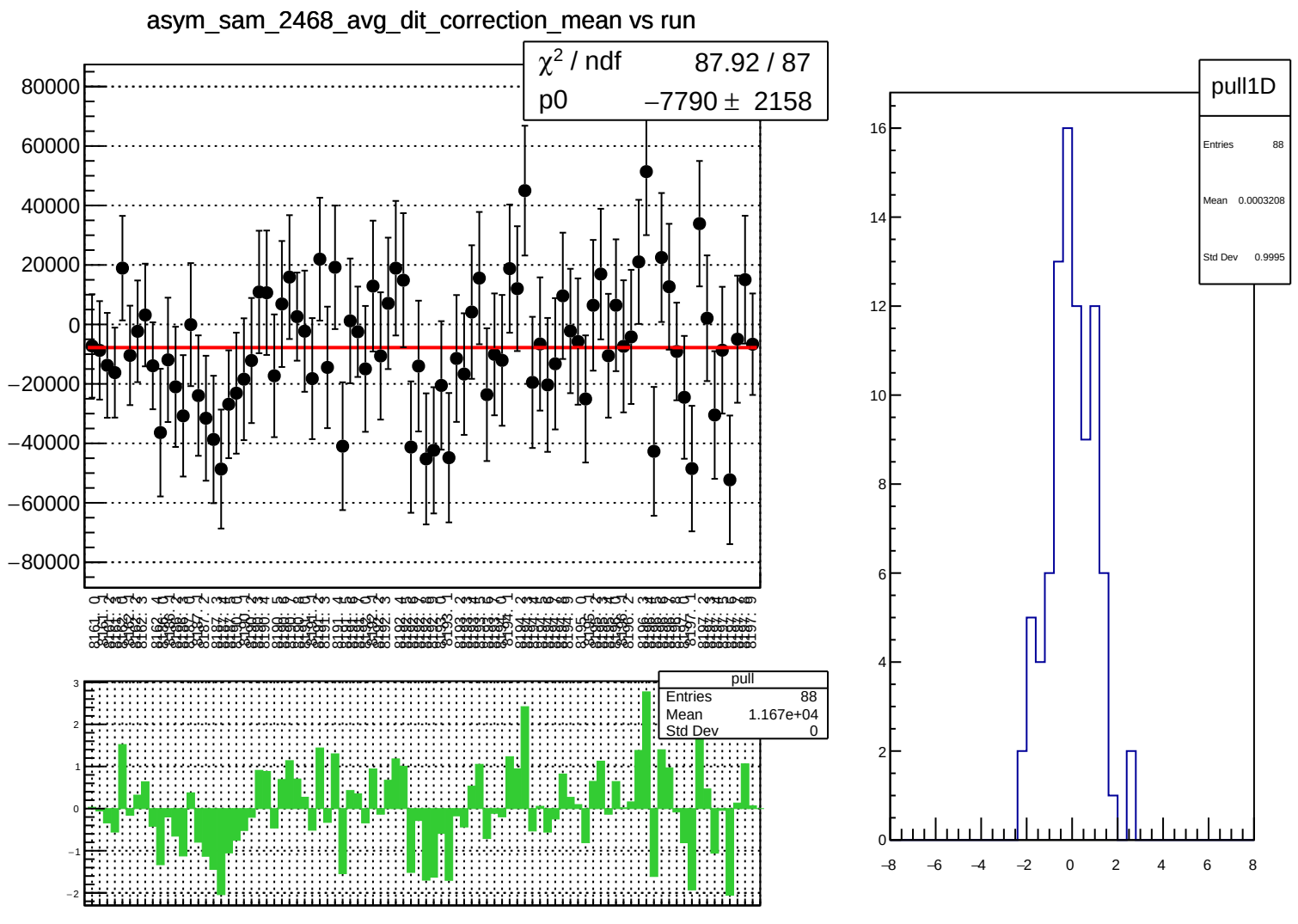

pull1D
Entries 88
Mean 0.0007094
Std Dev 0.9995

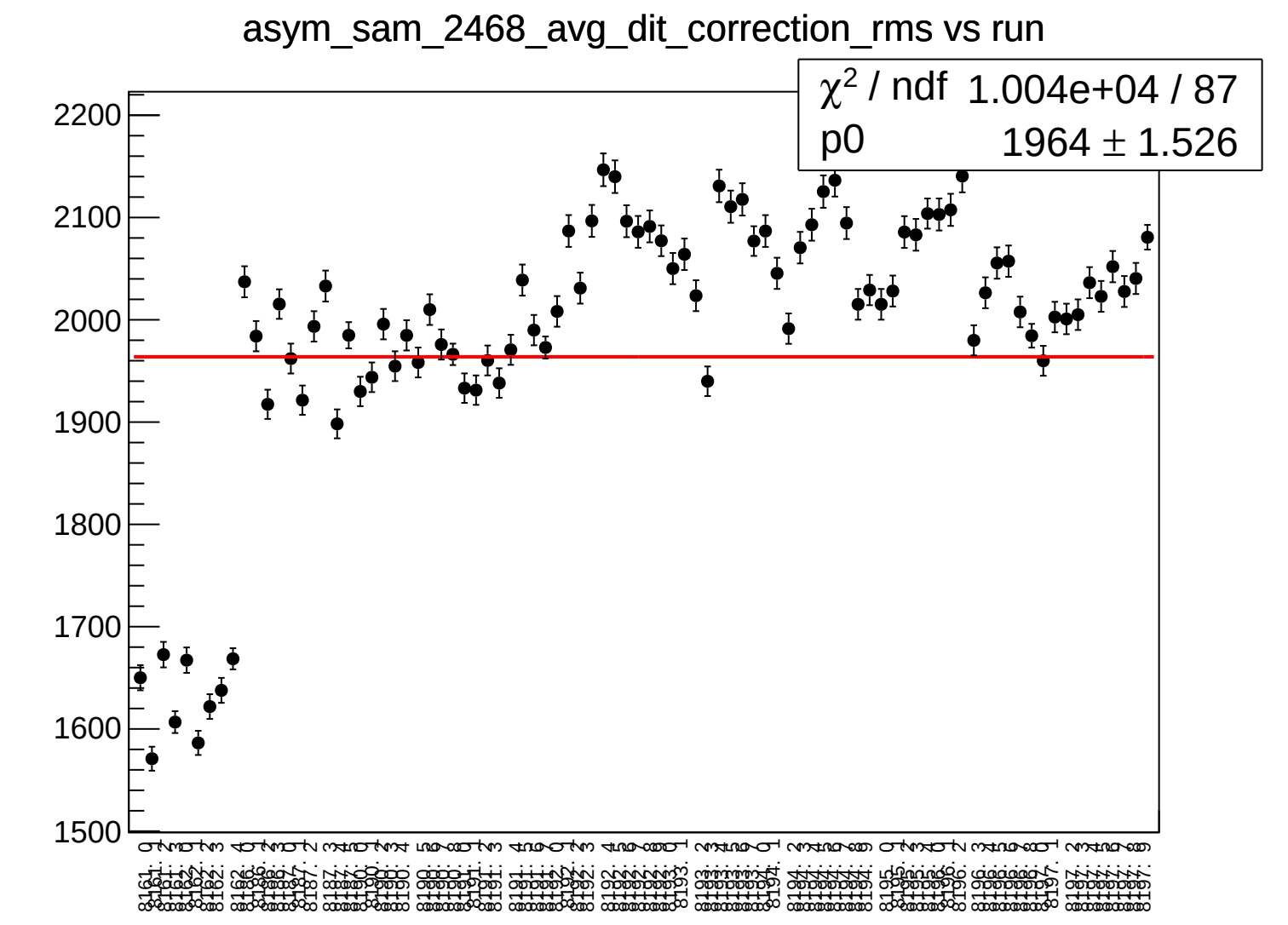

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 7996 / 87
p0 1902 ± 1.476
2100
2000
1900
1800
1700
1600
1500

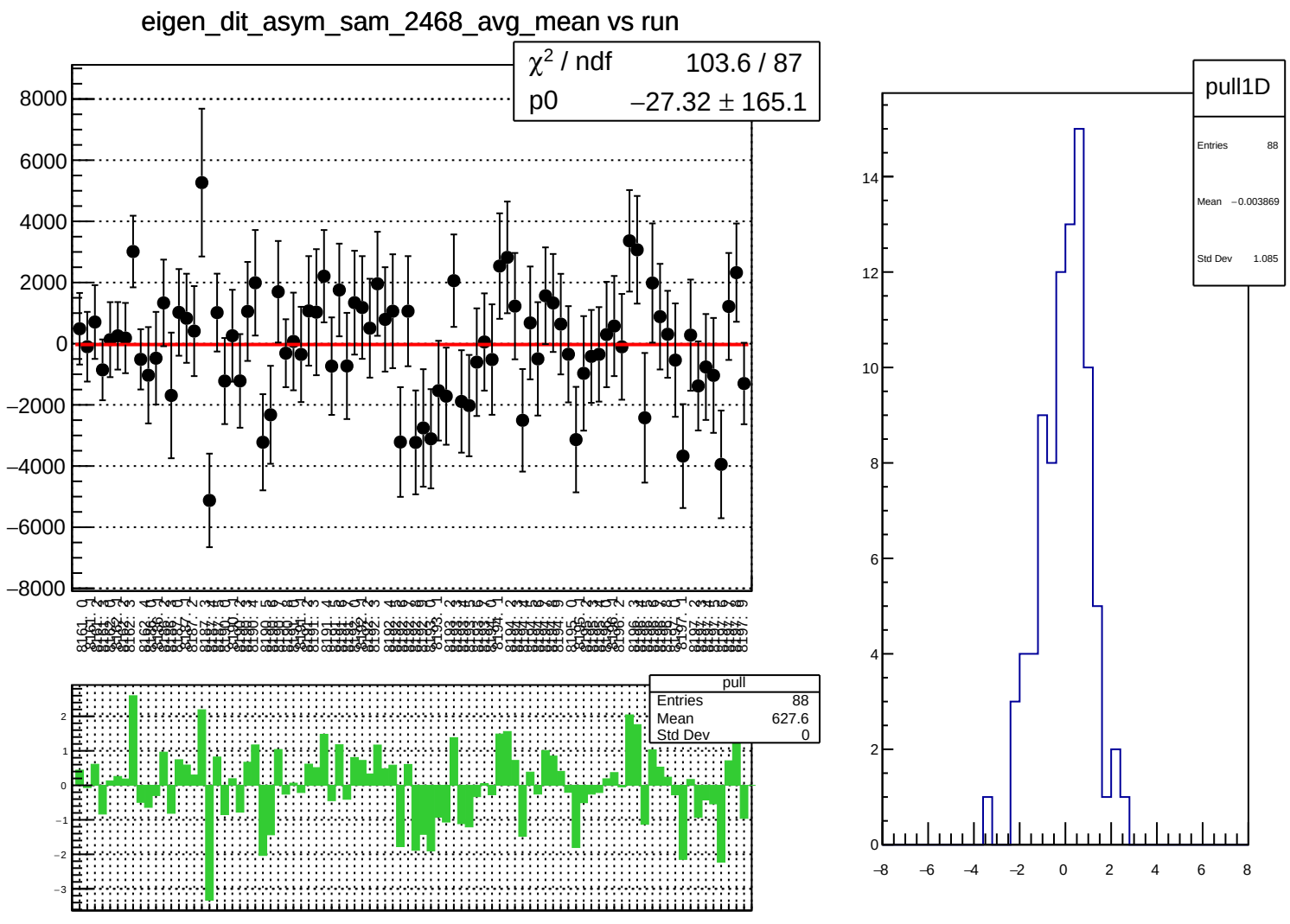

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 103.6 / 87
p0 −27.33 ± 165.1
pull
Entries 88
Mean 627.5
Std Dev 0

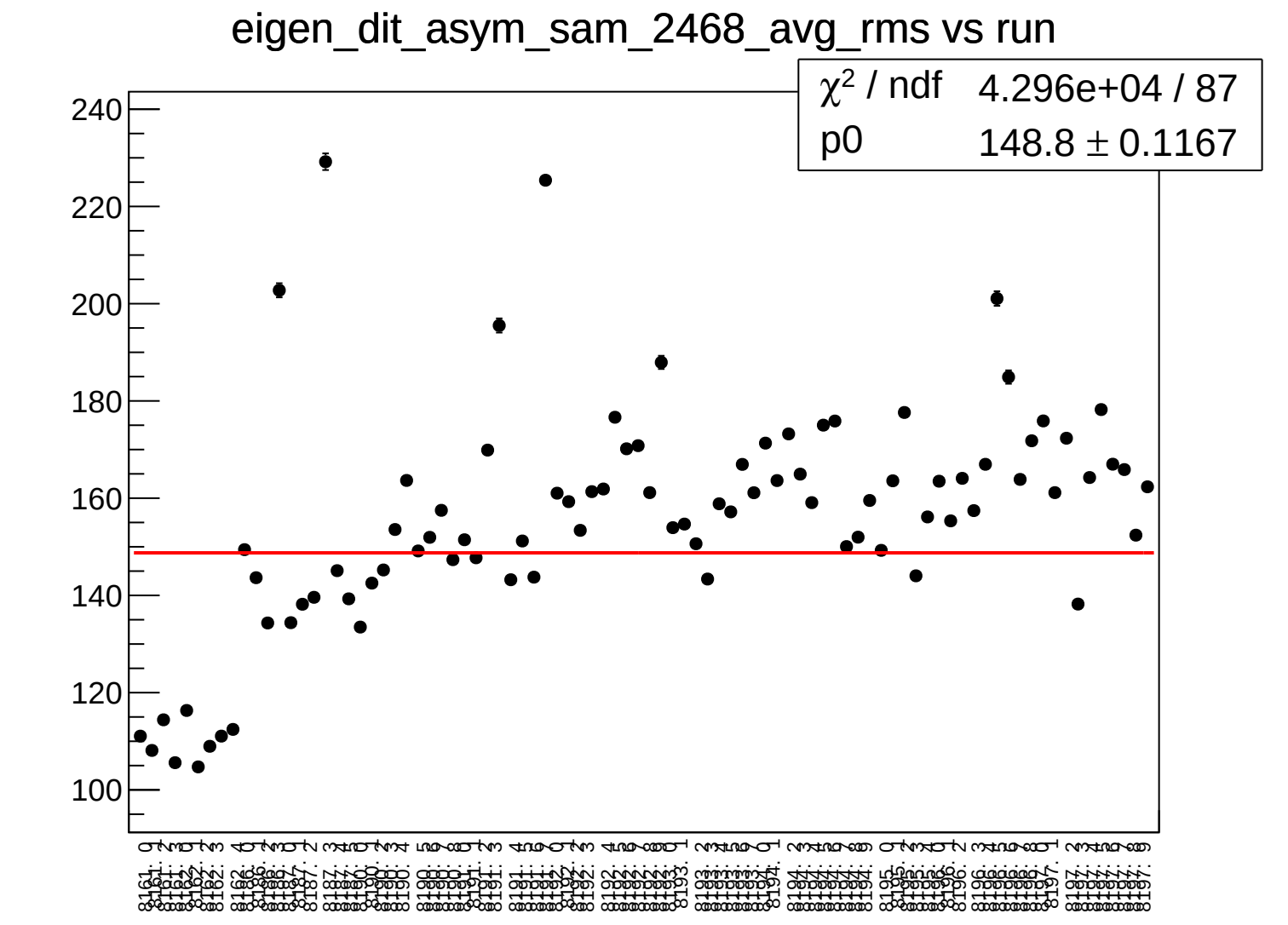

pull1D
Entries 88
Mean −0.00387
Std Dev 1.085

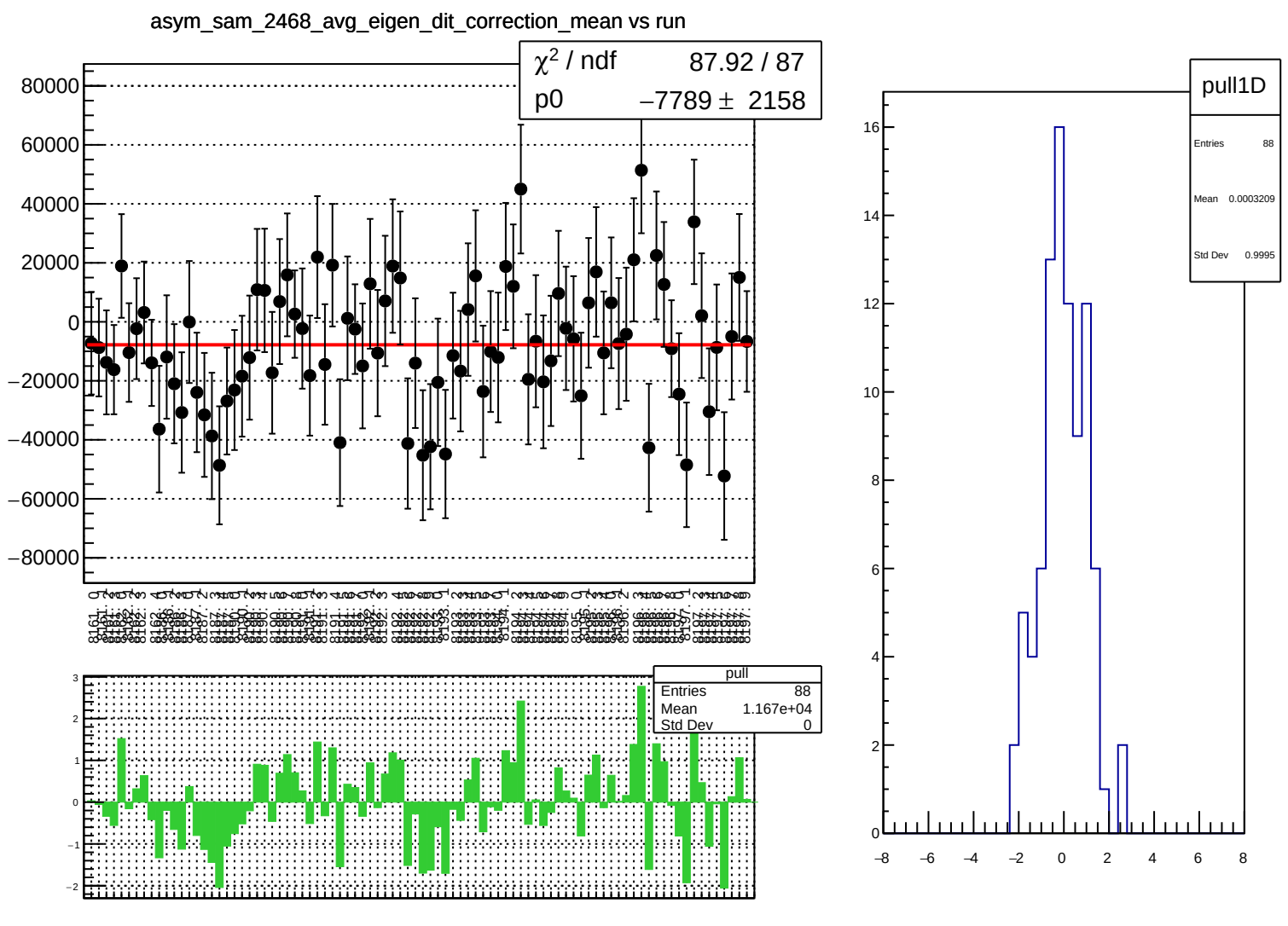

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4.296e+04 / 87
p0 148.8 ± 0.1167
240
220
200
180
160
140
120
100

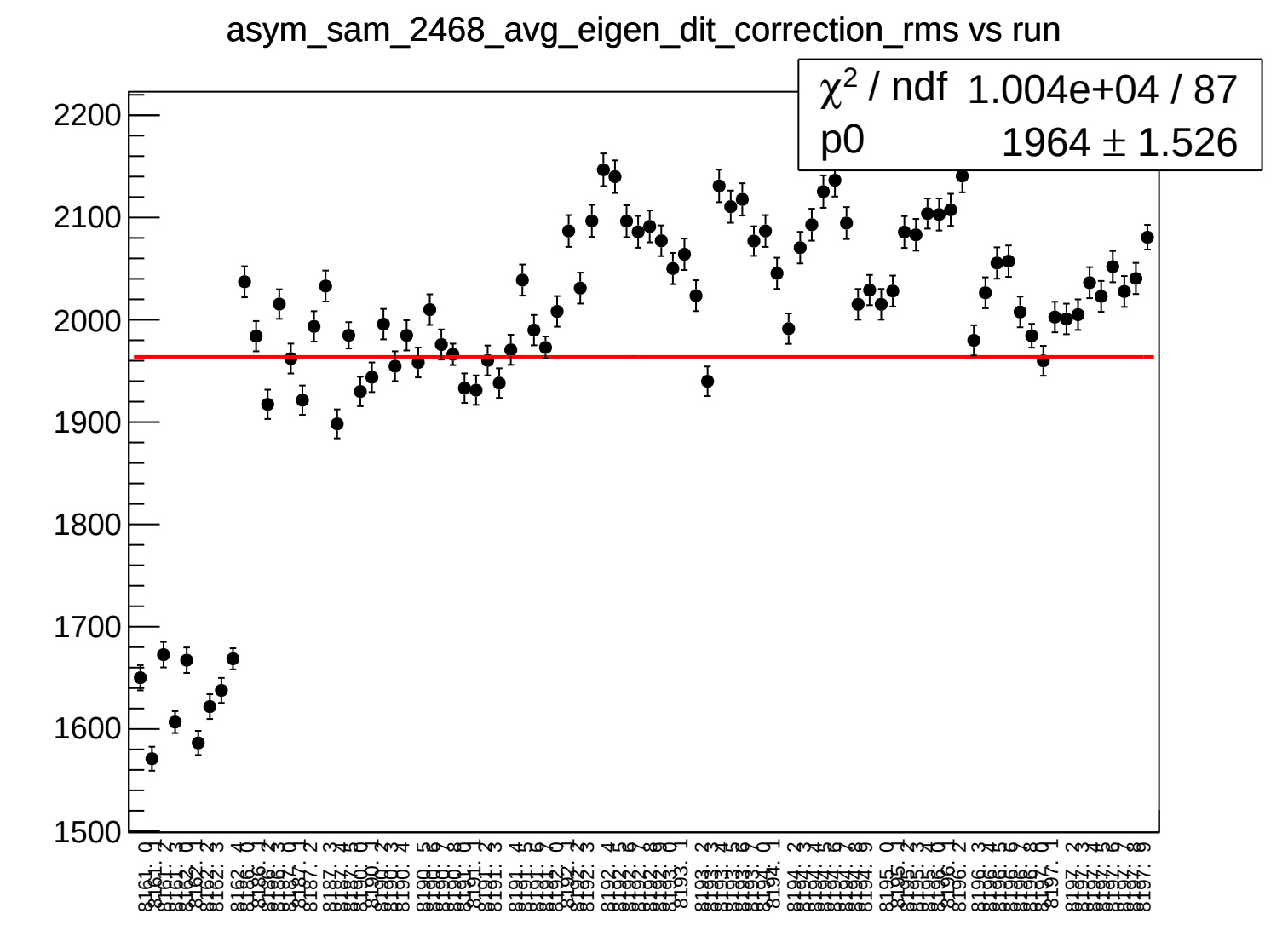

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 87.92 / 87
p0 −7790 ± 2158
pull
Entries 88
Mean 1.167e+04
Std Dev 0
pull1D
Entries 88
Mean 0.0003208
Std Dev 0.9995

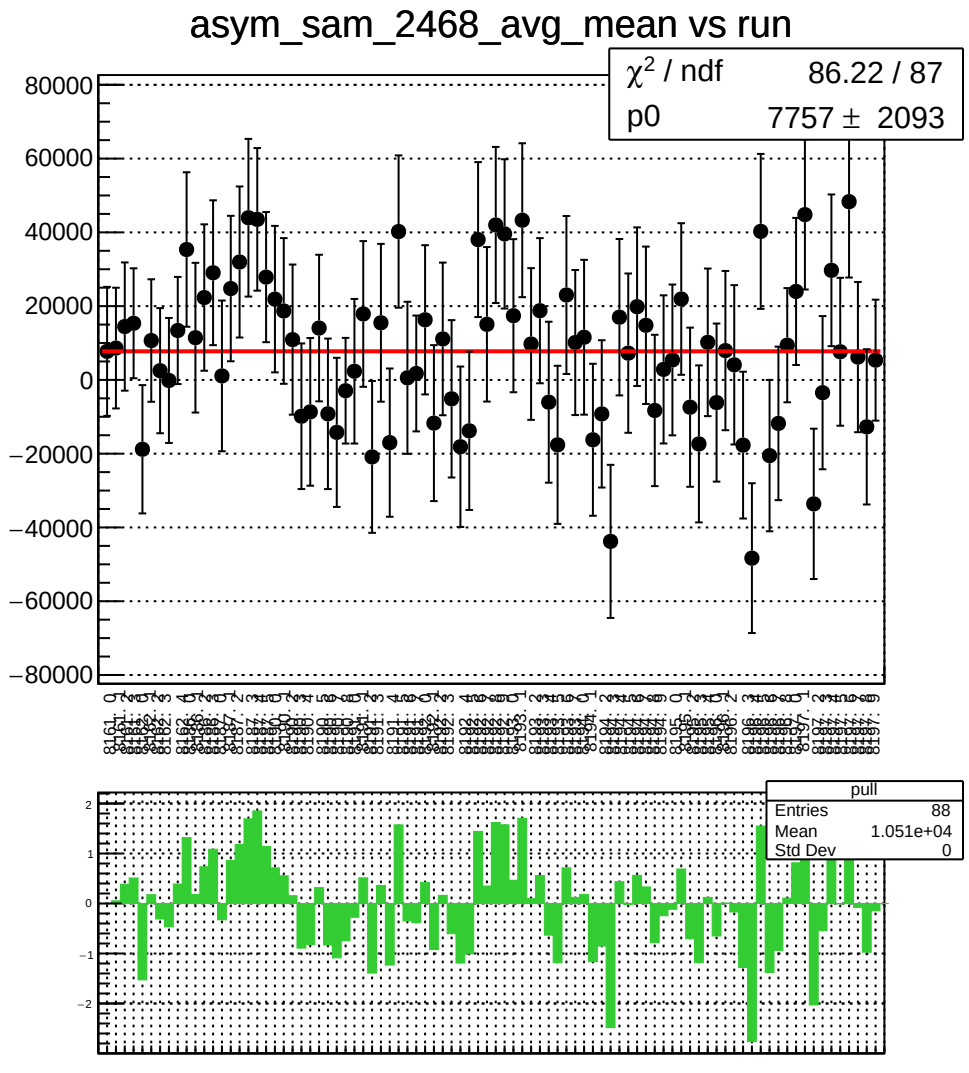

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.004e+04 / 87
p0 1964 ± 1.526
2200
2100
2000
1900
1800
1700
1600
1500

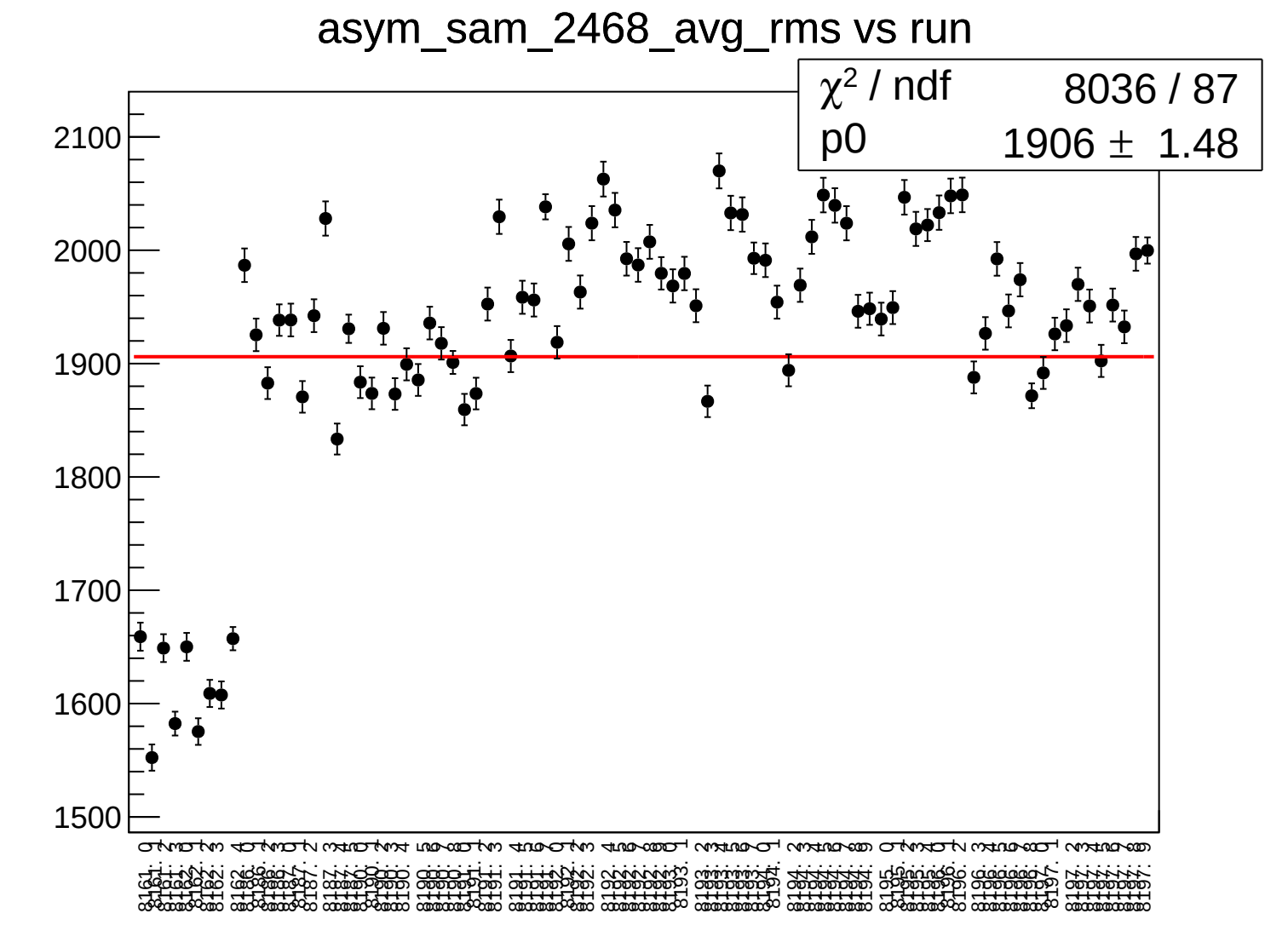

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 103.6 / 87
p0 −27.32 ± 165.1
pull
Entries 88
Mean 627.6
Std Dev 0
pull1D
Entries 88
Mean −0.003869
Std Dev 1.085

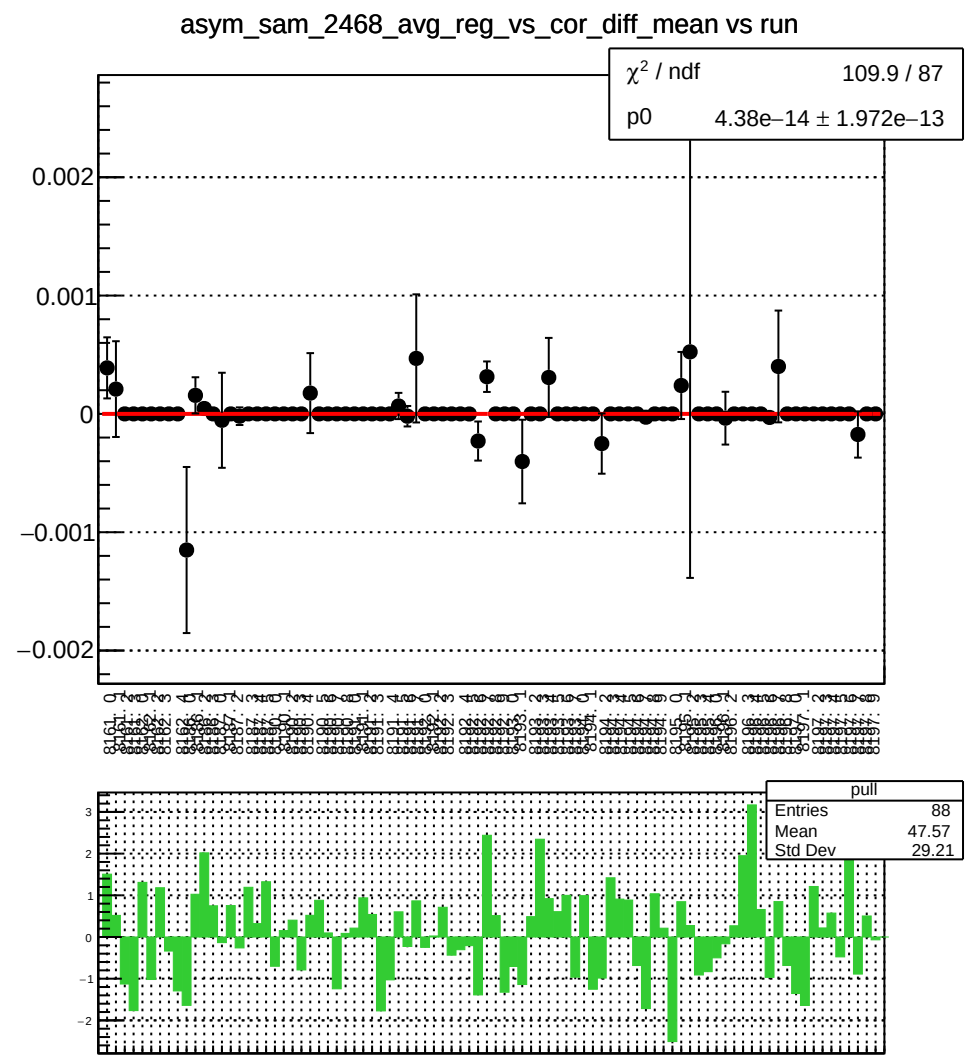

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4.296e+04 / 87
p0 148.8 ± 0.1167
240
220
200
180
160
140
120
100

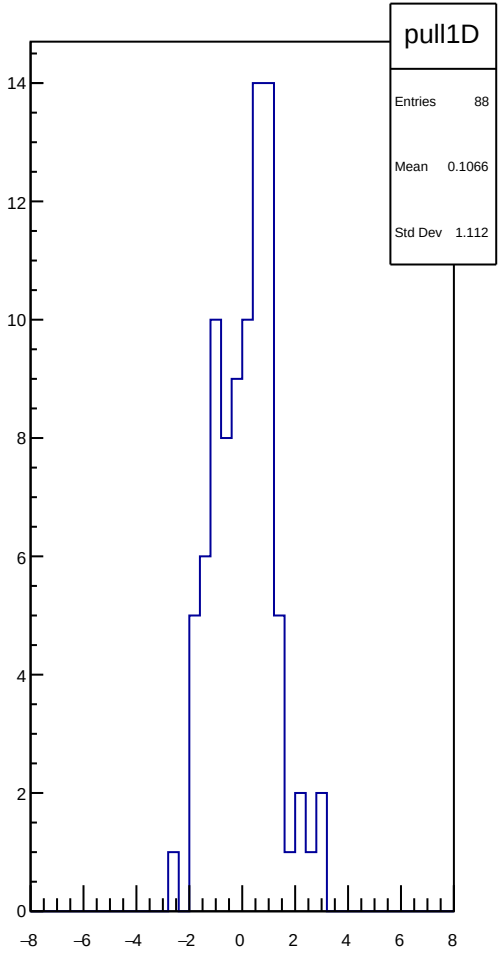

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.92 / 87
p0 −7789 ± 2158
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 1.167e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0003209
Std Dev 0.9995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

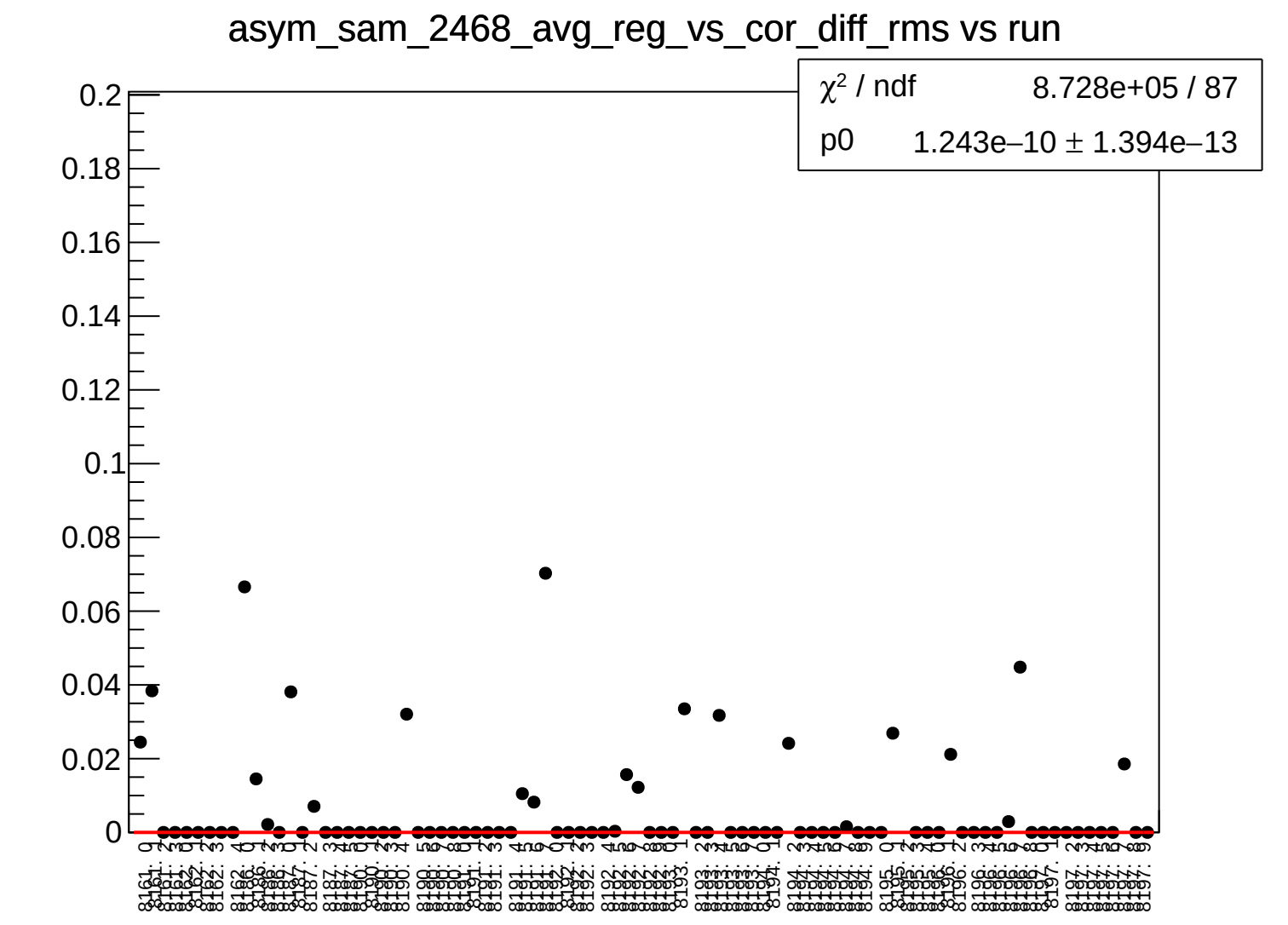

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.004e+04 / 87
p0 1964 ± 1.526
2200
2100
2000
1900
1800
1700
1600
1500

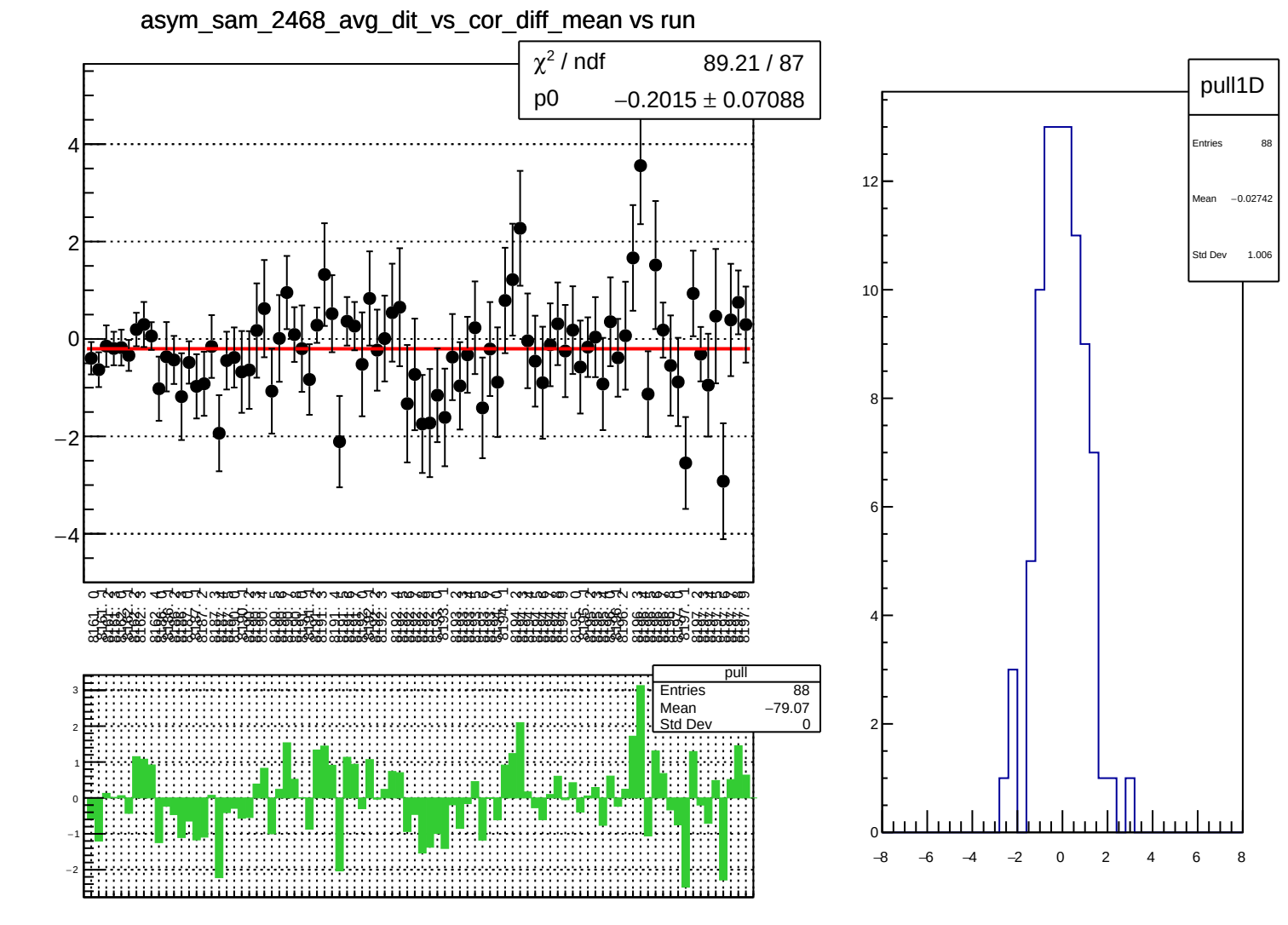

asym_sam_2468_avg_mean vs run
χ² / ndf 86.22 / 87
p0 7757 ± 2093
pull
Entries 88
Mean 1.051e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0003849
Std Dev 0.9899

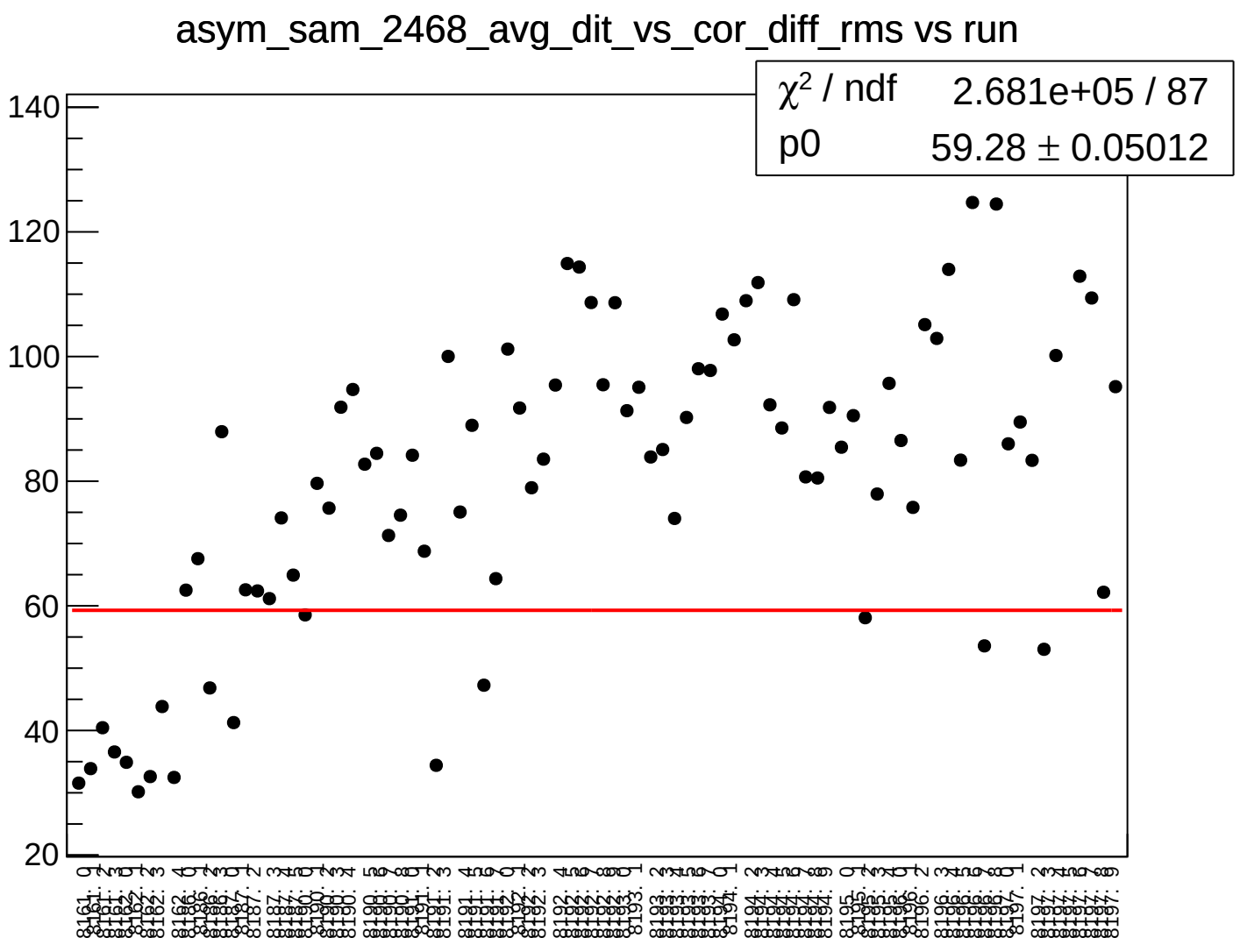

asym_sam_2468_avg_rms vs run
χ² / ndf 8036 / 87
p0 1906 ± 1.48
2100
2000
1900
1800
1700
1600
1500

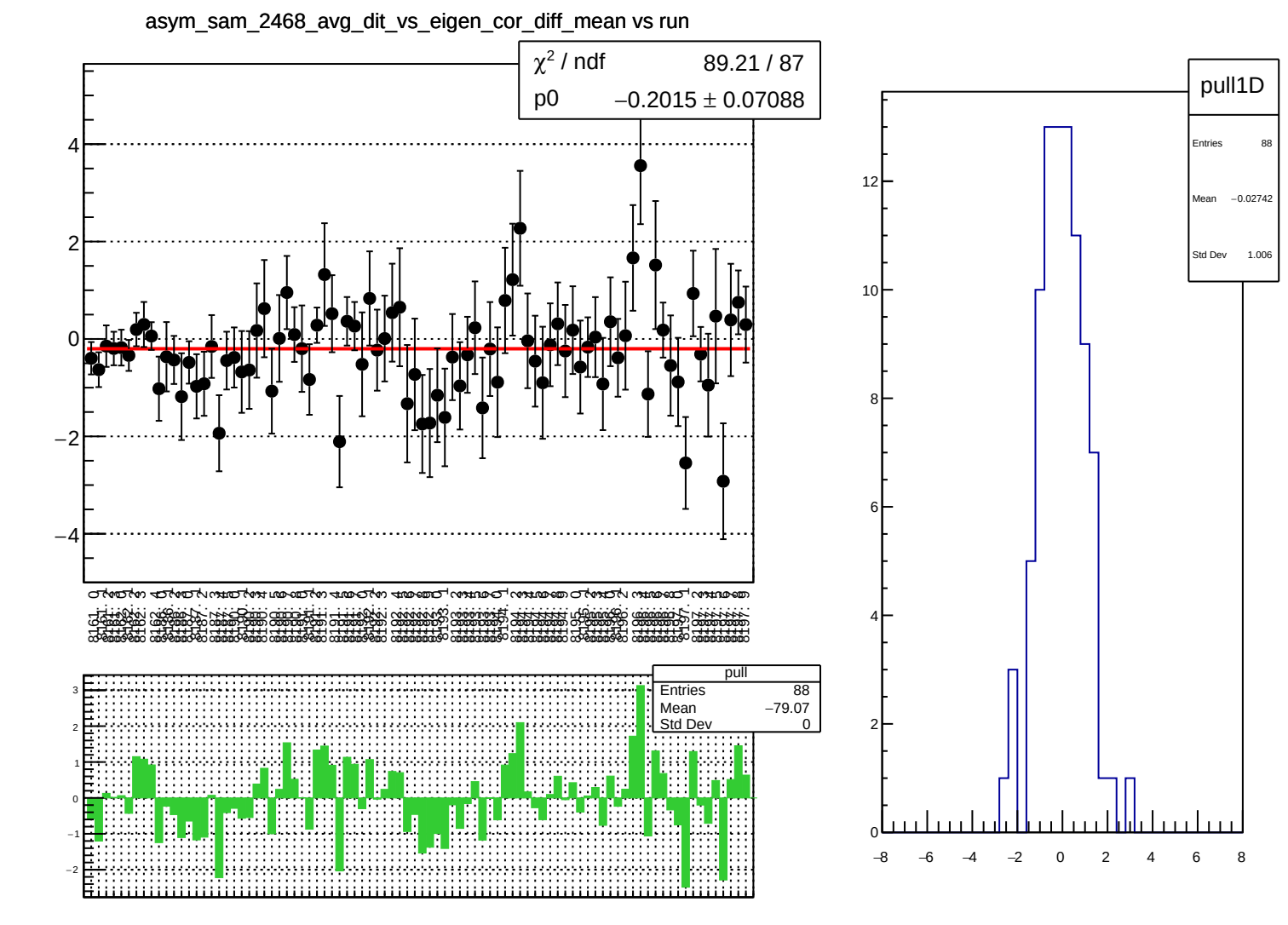

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 87
p0 4.38e−14 ± 1.972e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 88
Mean 47.57
Std Dev 29.21
3
2
1
0
−1
−2

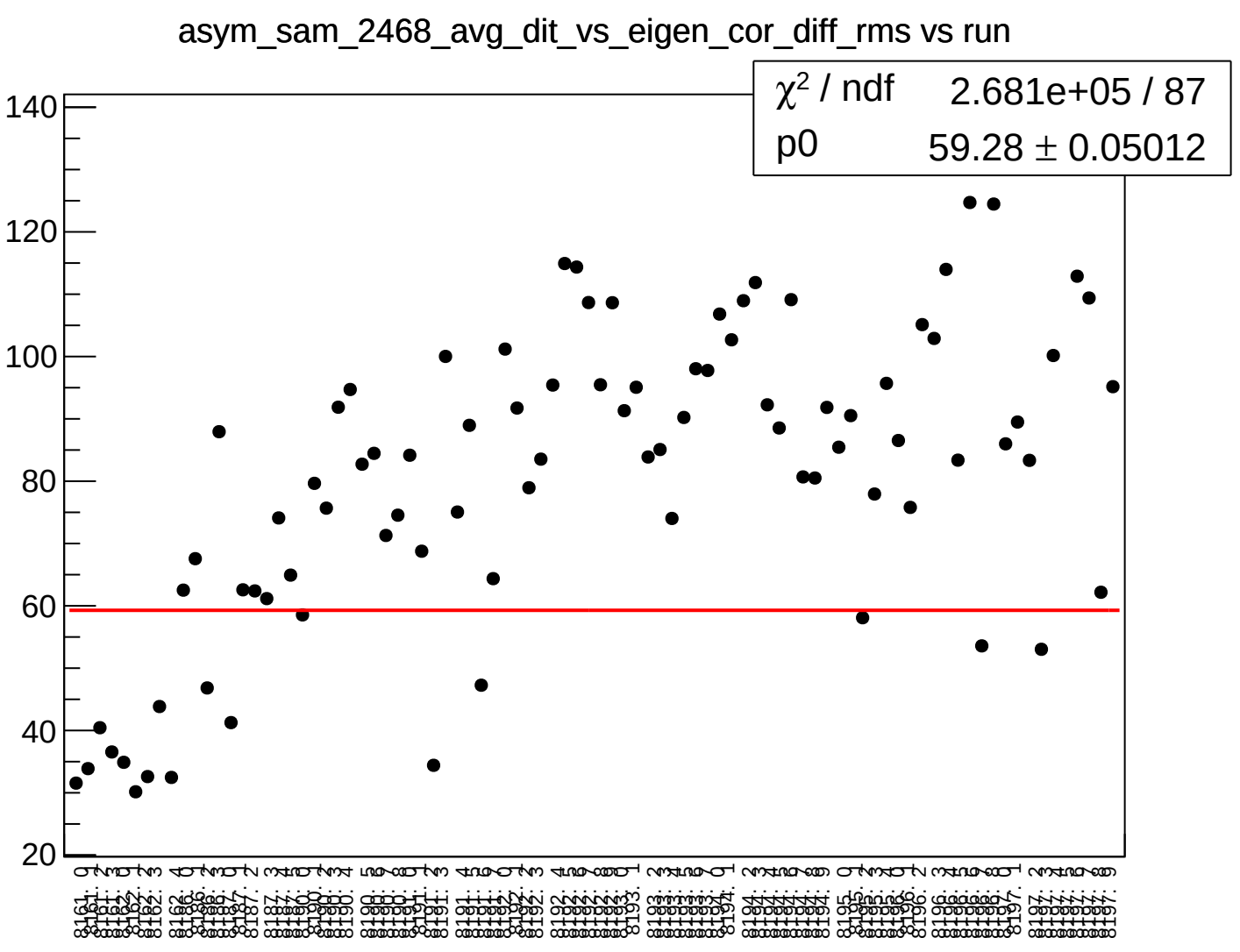

pull1D
Entries 88
Mean 0.1066
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

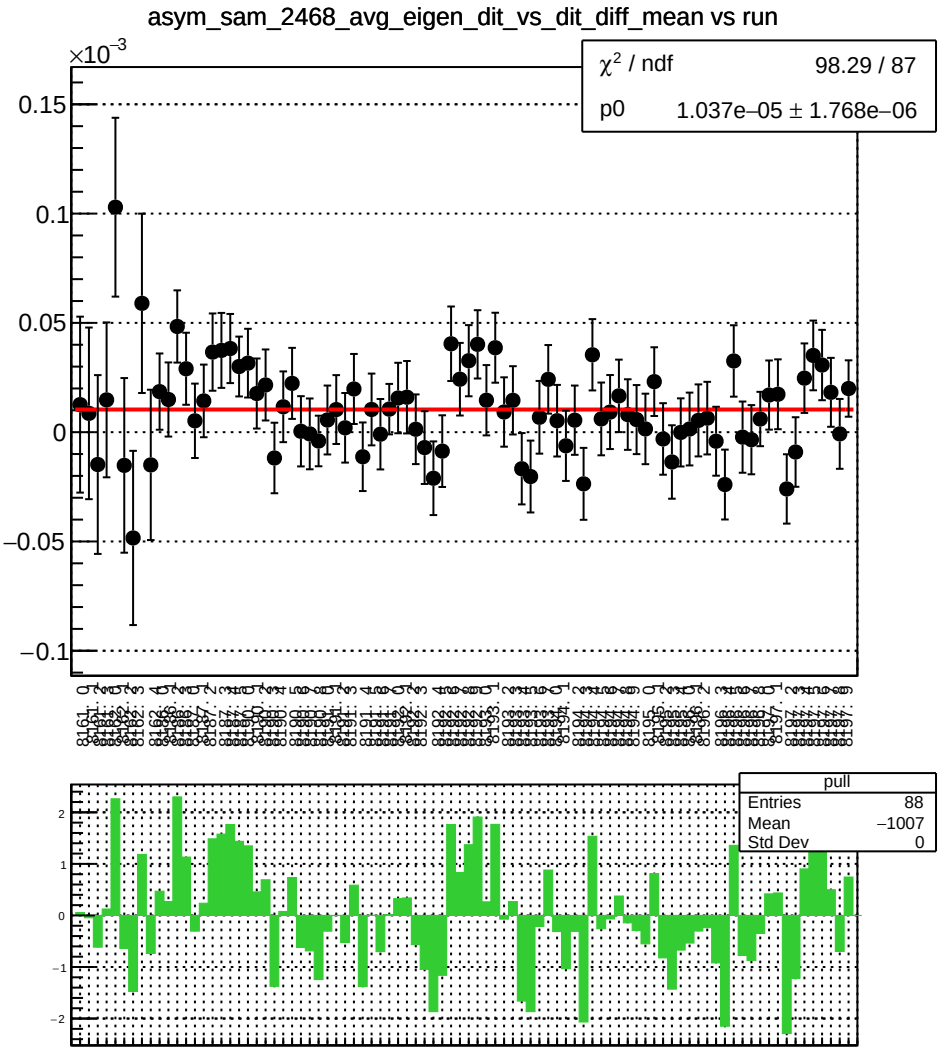

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.728e+05 / 87
p0 1.243e−10 ± 1.394e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

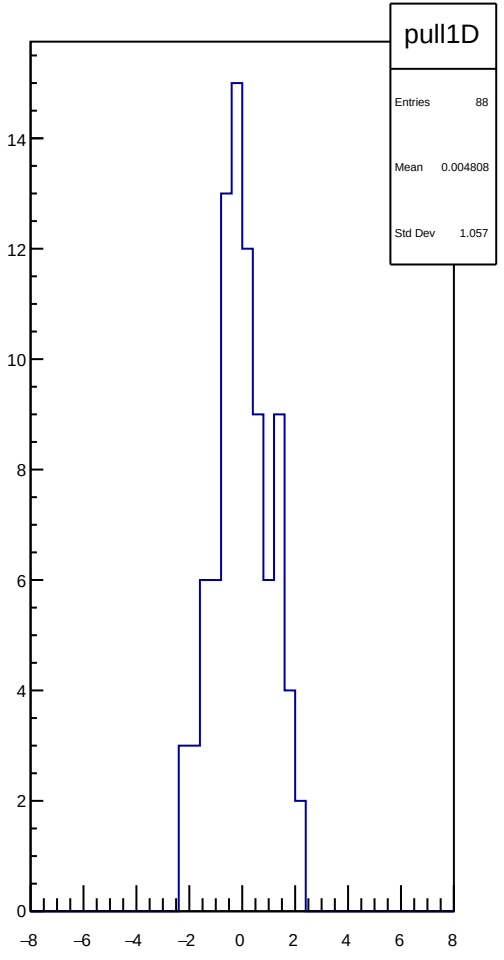

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.21 / 87
p0 −0.2015 ± 0.07088
pull
Entries 88
Mean −79.07
Std Dev 0
pull1D
Entries 88
Mean −0.02742
Std Dev 1.006

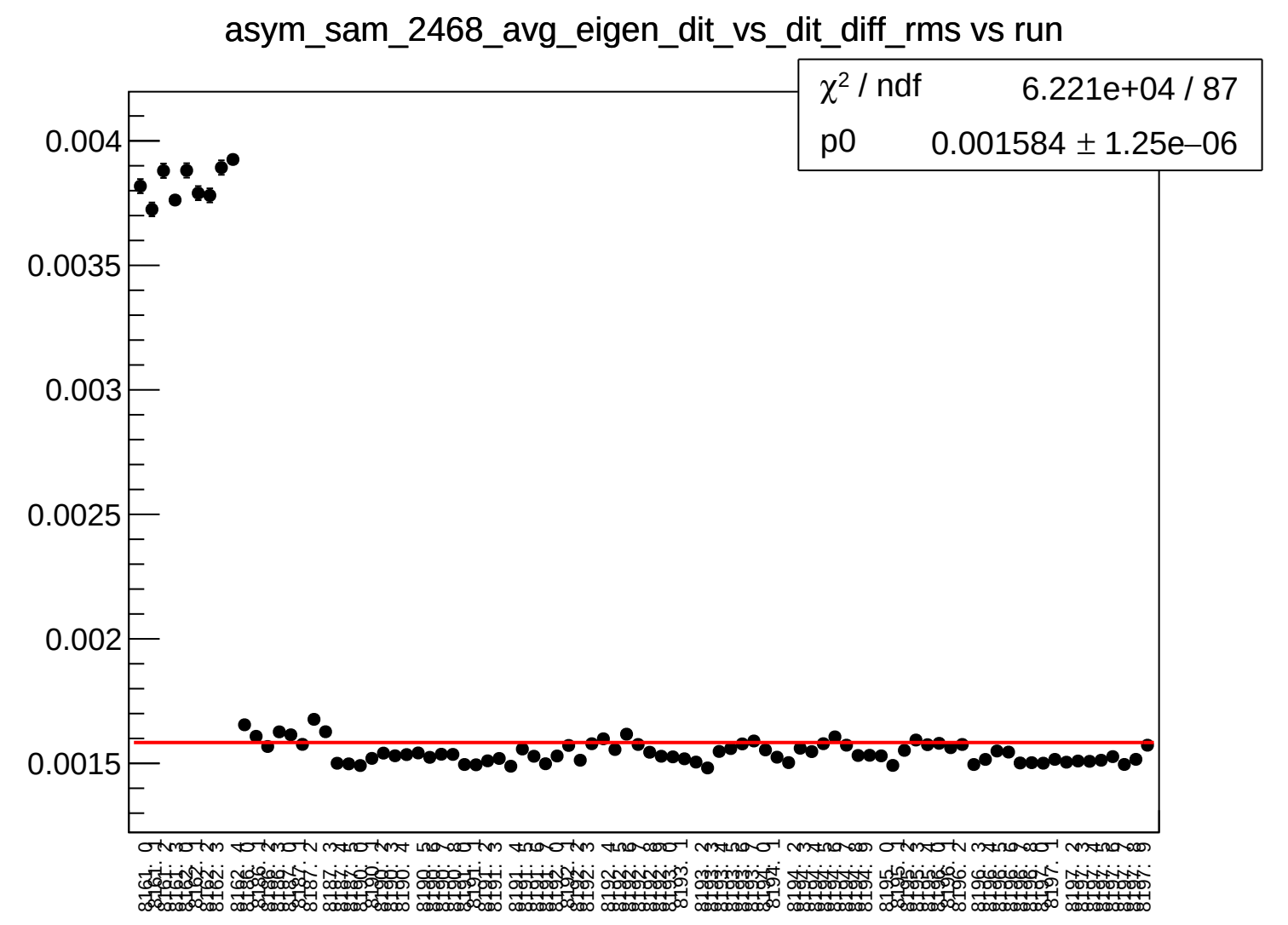

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.681e+05 / 87
p0 59.28 ± 0.05012
140
120
100
80
60
40
20

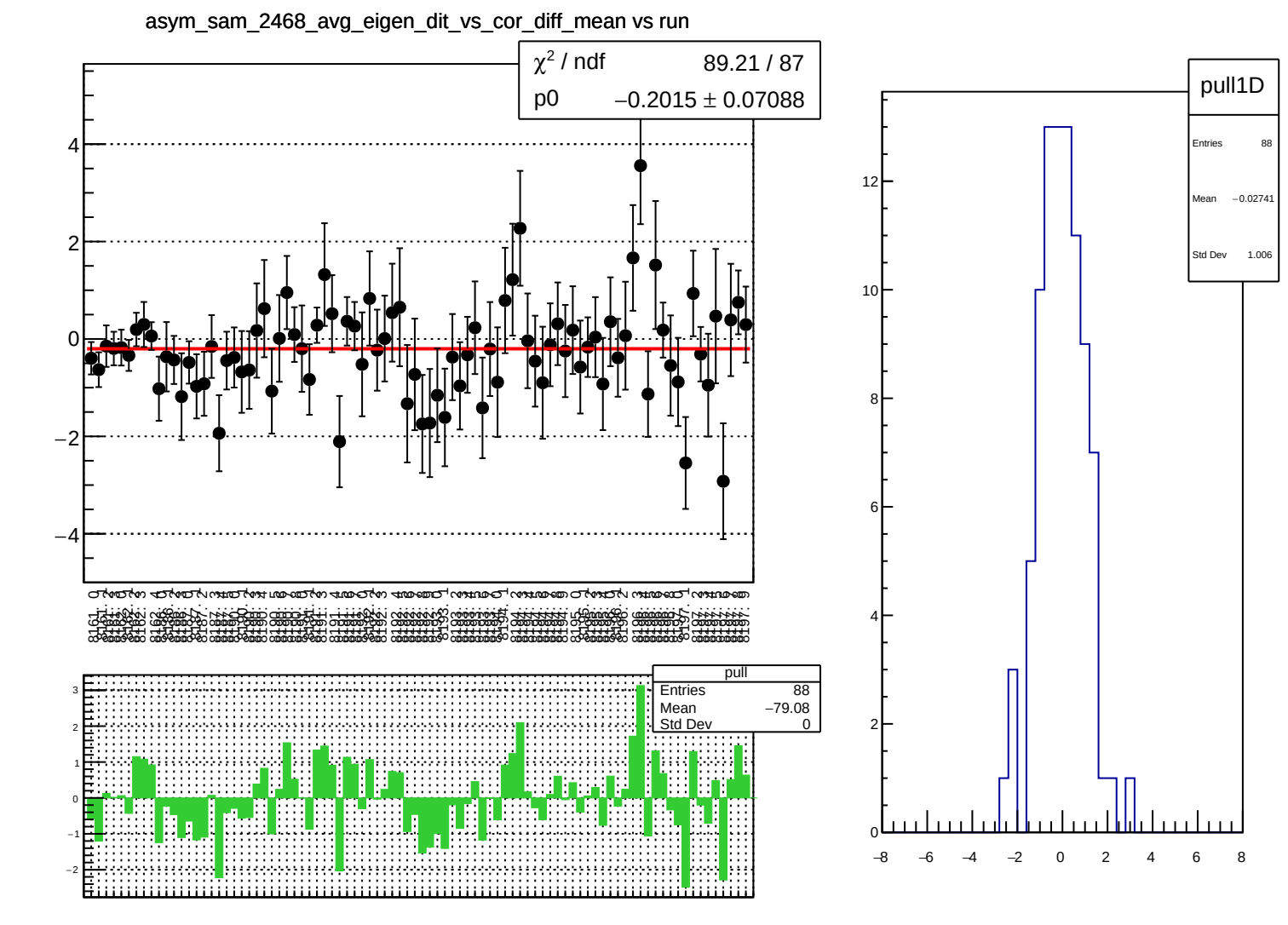

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.21 / 87
p0 −0.2015 ± 0.07088
pull
Entries 88
Mean −79.07
Std Dev 0
pull1D
Entries 88
Mean −0.02742
Std Dev 1.006

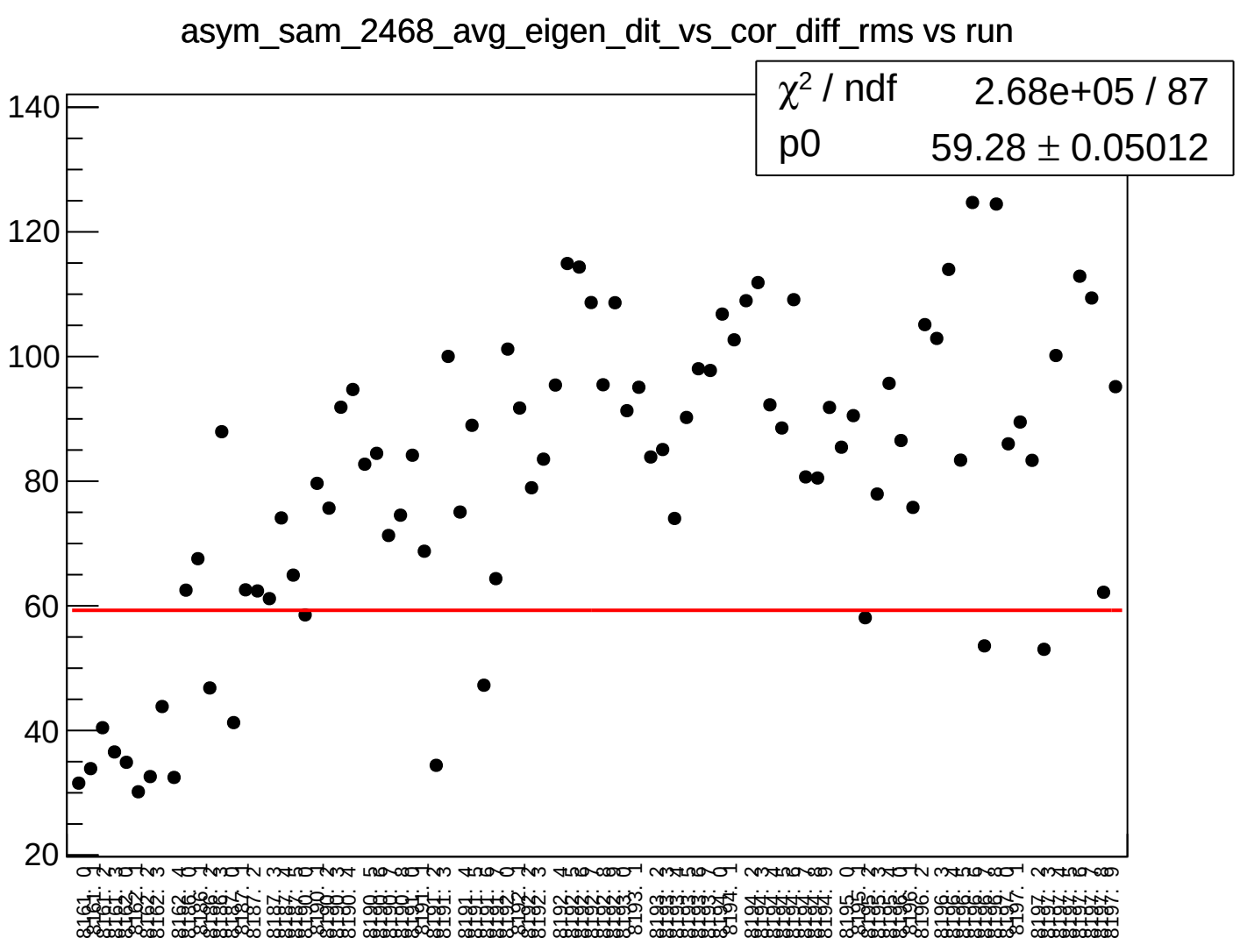

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.681e+05 / 87
p0 59.28 ± 0.05012
140
120
100
80
60
40
20

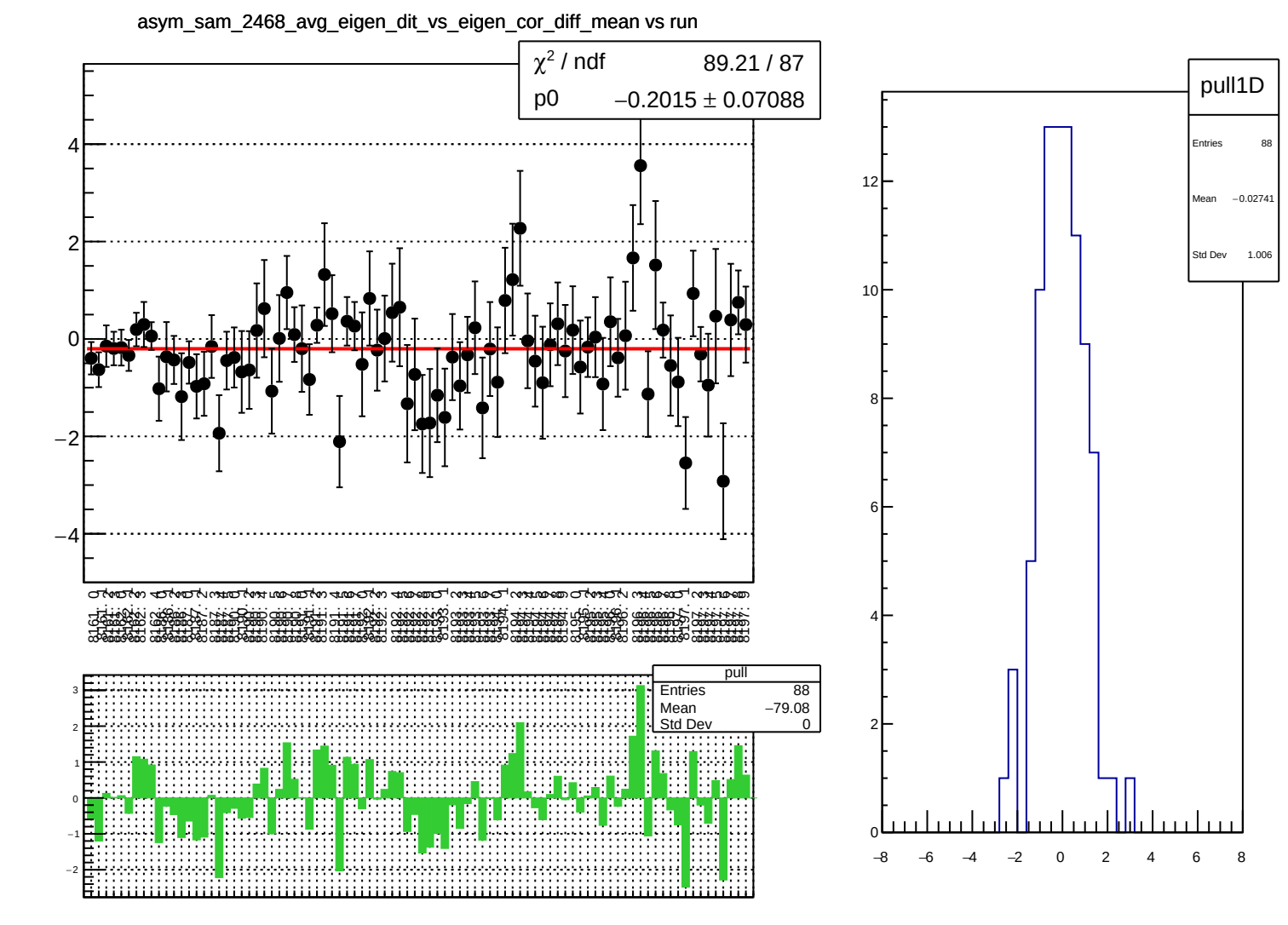

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 98.29 / 87
p0 1.037e−05 ± 1.768e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −1007
Std Dev 0
2
1
0
−1
−2

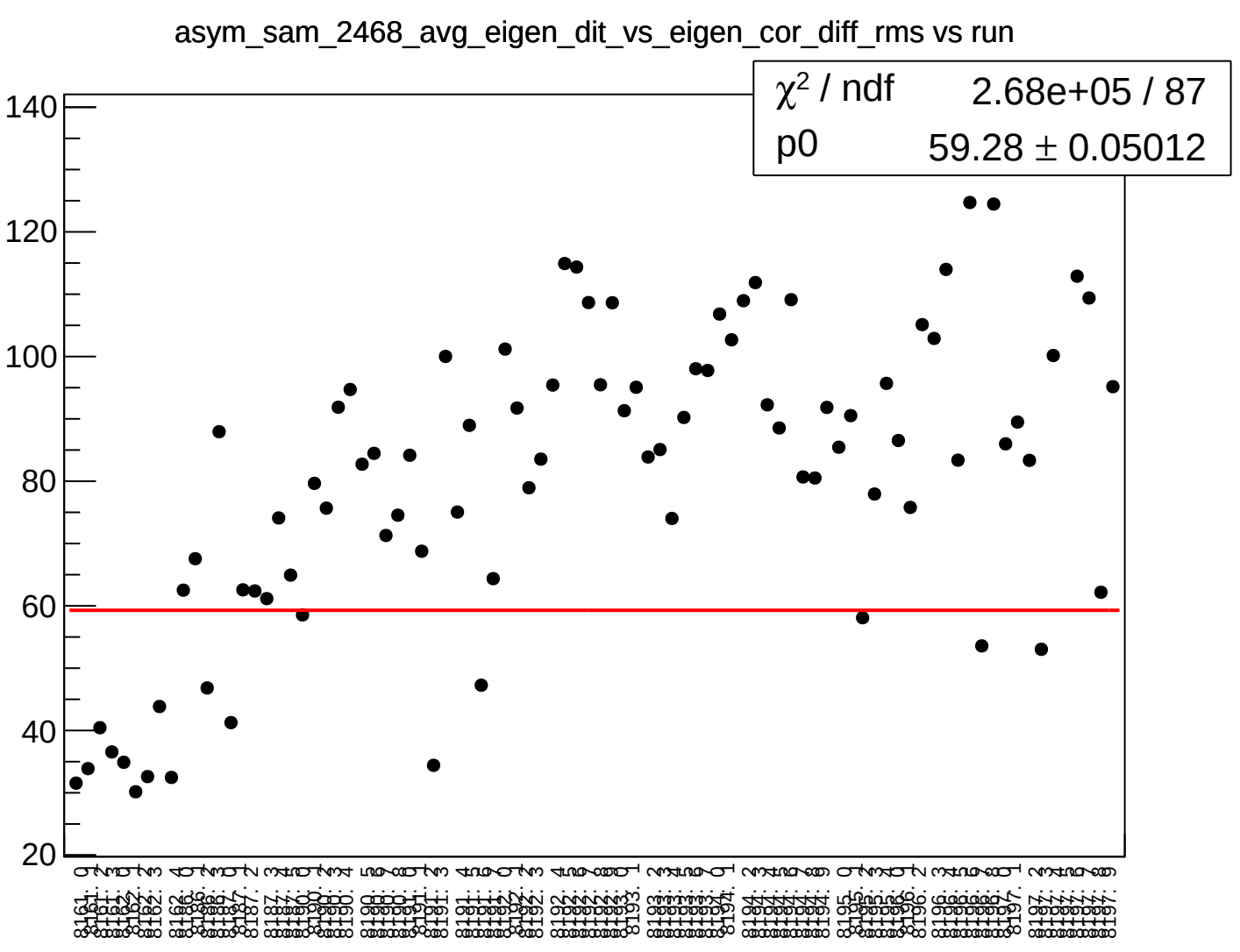

pull1D
Entries 88
Mean 0.004808
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

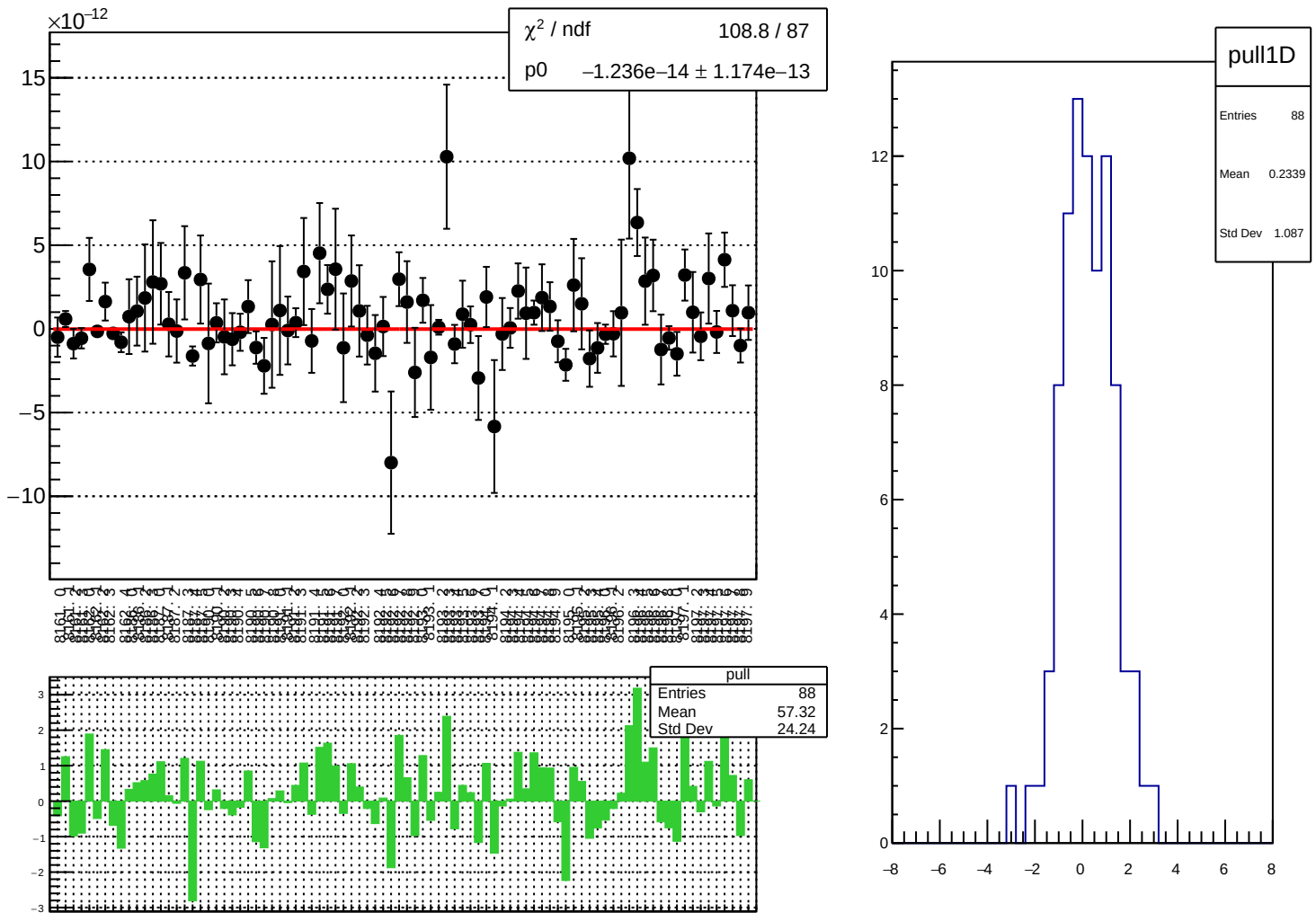

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.221e+04 / 87
p0 0.001584 ± 1.25e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

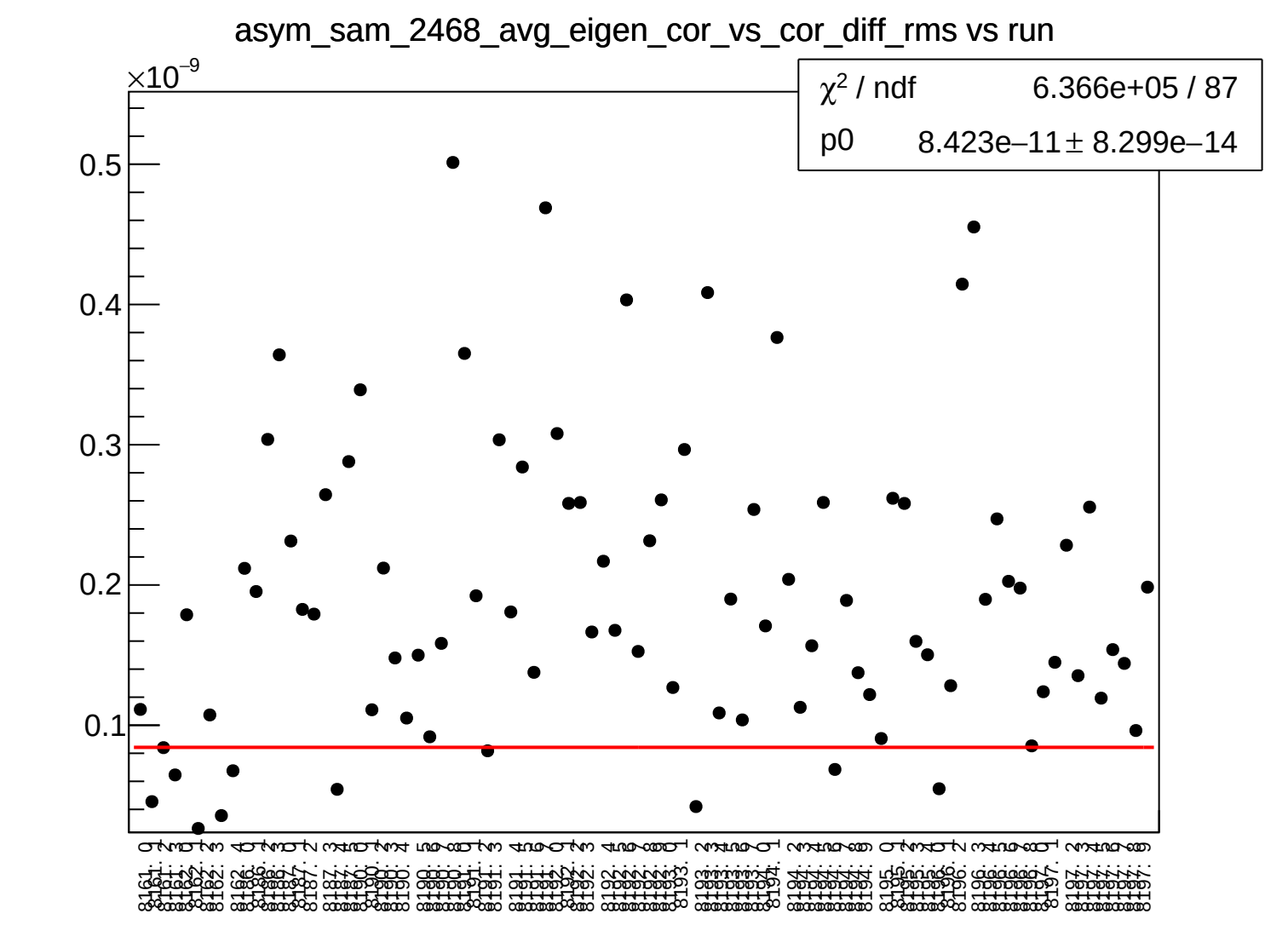

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.21 / 87
p0 −0.2015 ± 0.07088
pull
Entries 88
Mean −79.08
Std Dev 0
pull1D
Entries 88
Mean −0.02741
Std Dev 1.006

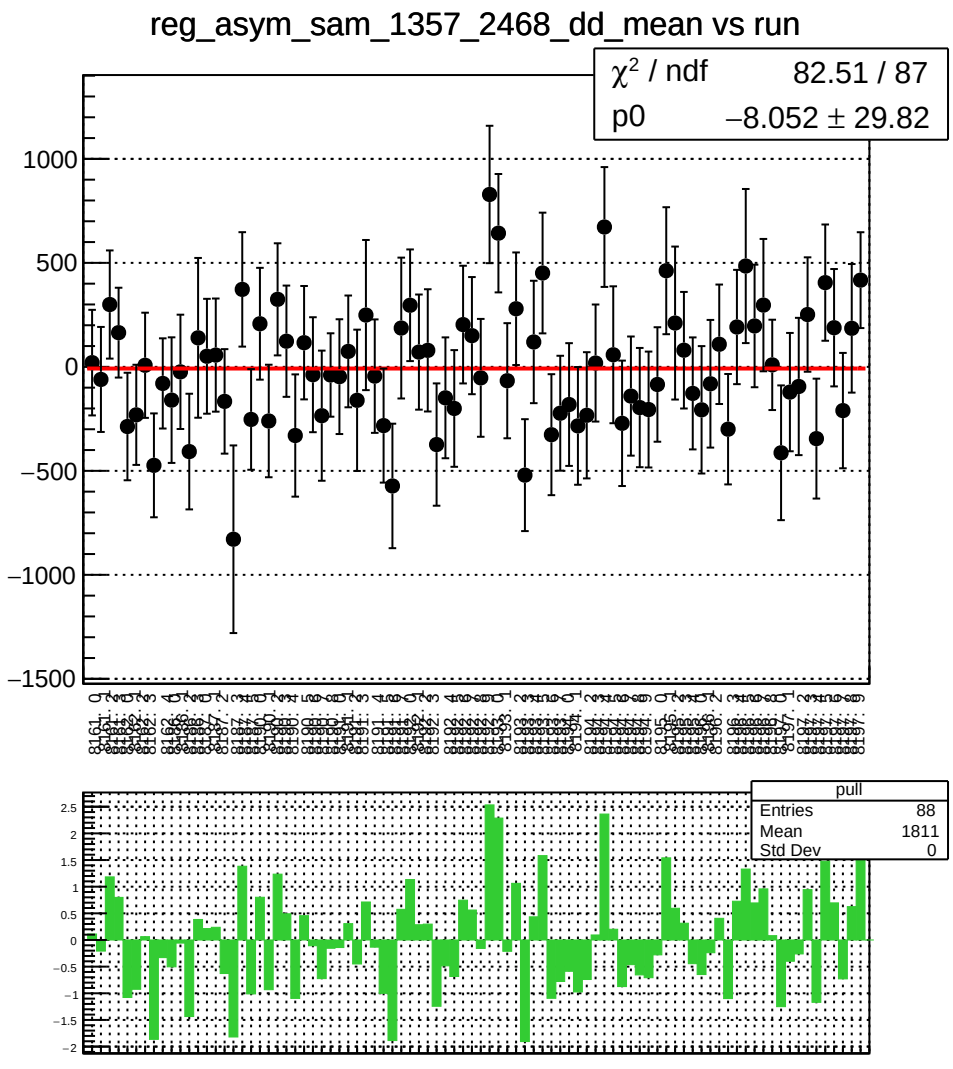

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.68e+05 / 87
p0 59.28 ± 0.05012
140
120
100
80
60
40
20

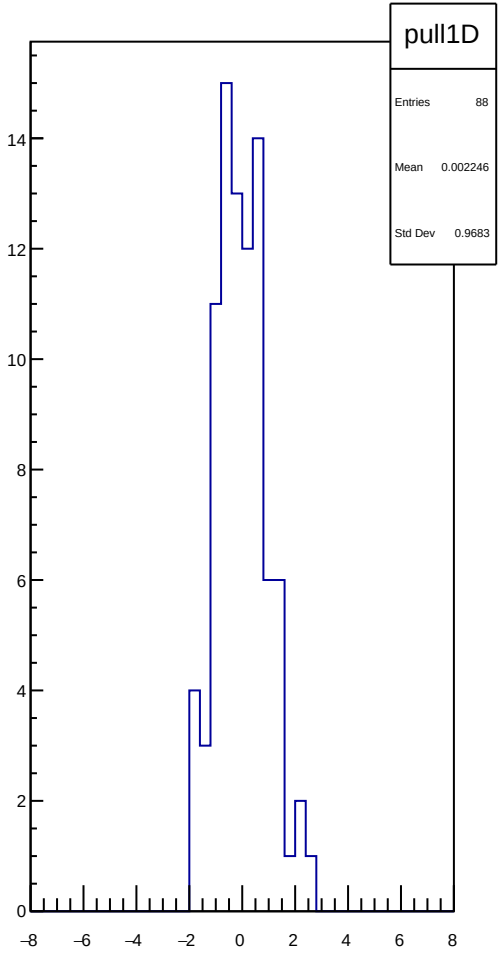

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.21 / 87
p0 −0.2015 ± 0.07088
pull
Entries 88
Mean −79.08
Std Dev 0
pull1D
Entries 88
Mean −0.02741
Std Dev 1.006

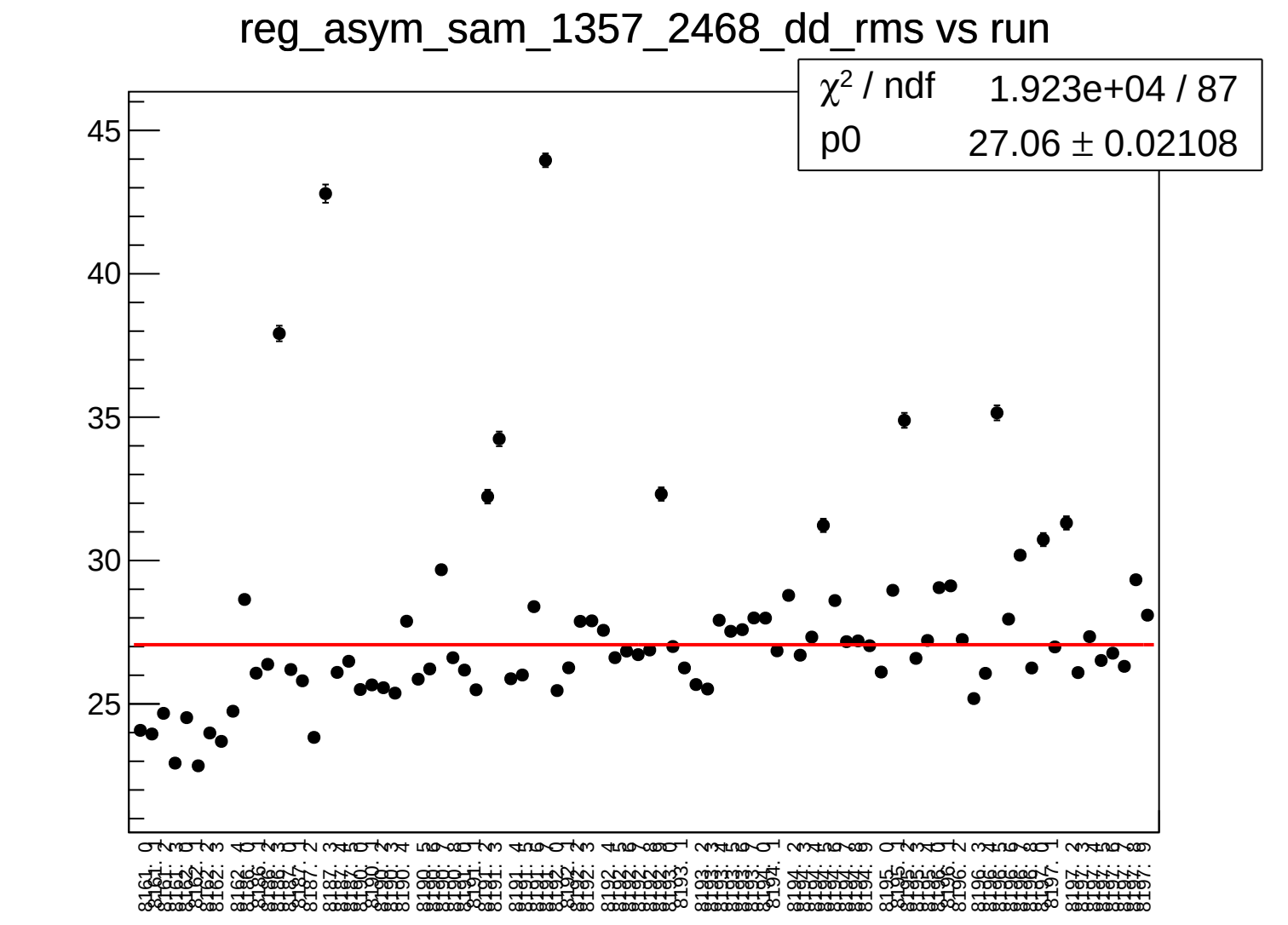

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.68e+05 / 87
p0 59.28 ± 0.05012
140
120
100
80
60
40
20

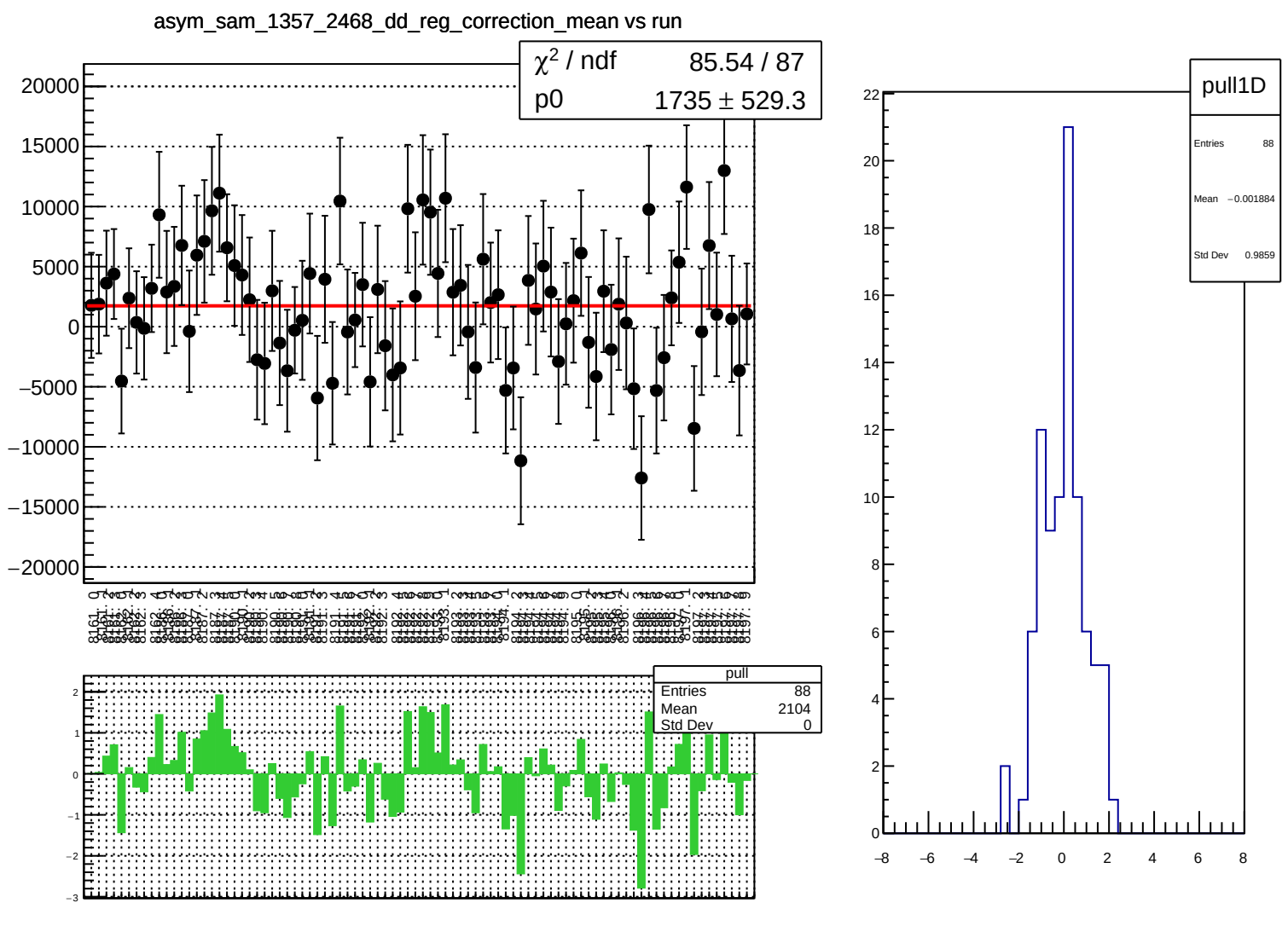

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.8 / 87
p0 −1.236e−14 ± 1.174e−13
pull
Entries 88
Mean 57.32
Std Dev 24.24
pull1D
Entries 88
Mean 0.2339
Std Dev 1.087

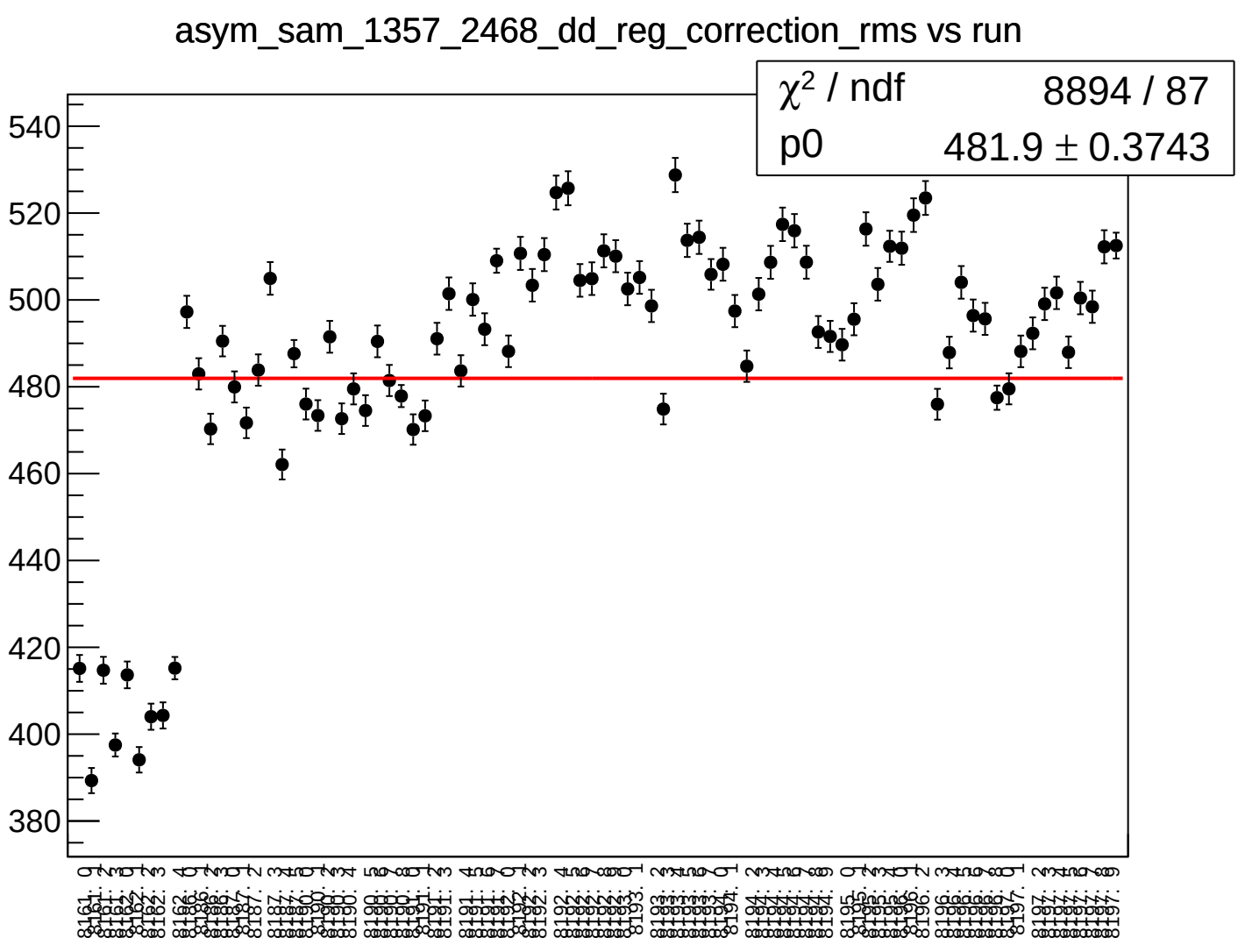

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.366e+05 / 87
p0 8.423e−11 ± 8.299e−14
0.5
0.4
0.3
0.2
0.1

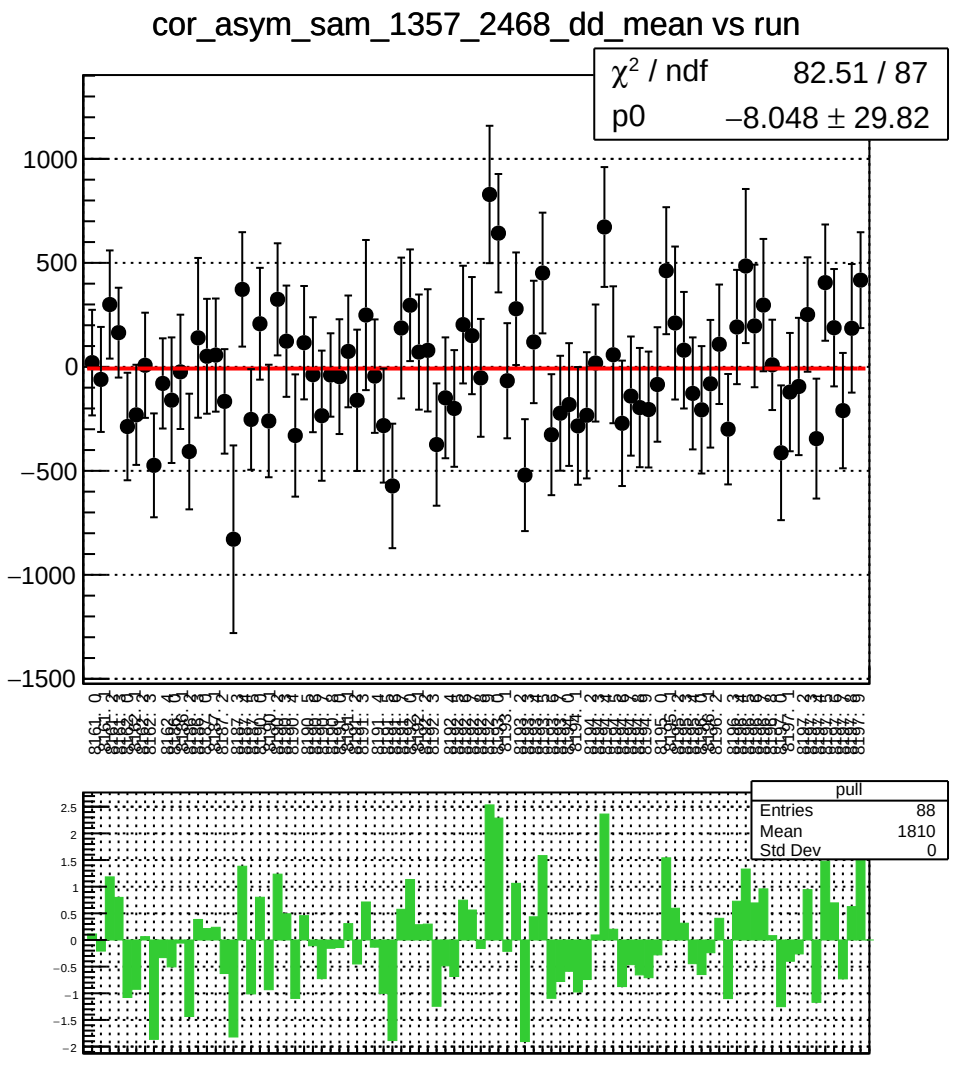

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.51 / 87
p0 −8.052 ± 29.82
pull
Entries 88
Mean 1811
Std Dev 0

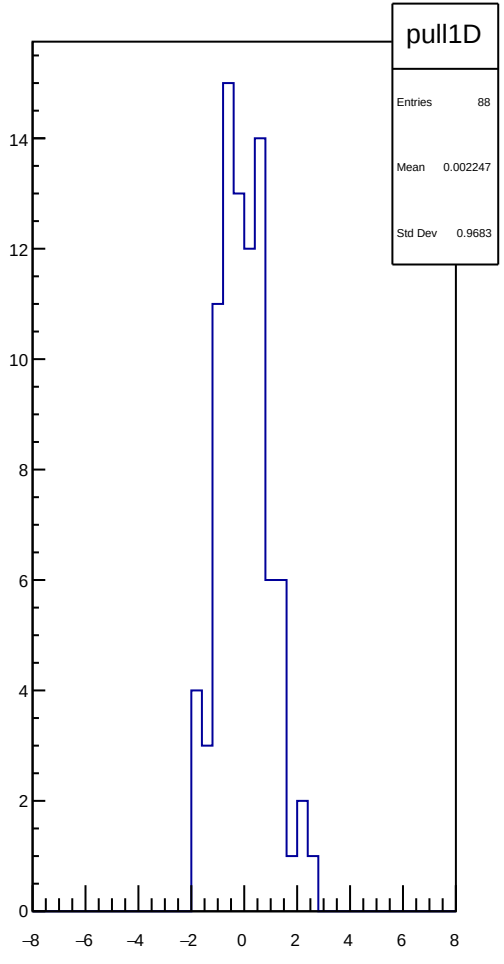

pull1D
Entries 88
Mean 0.002246
Std Dev 0.9683

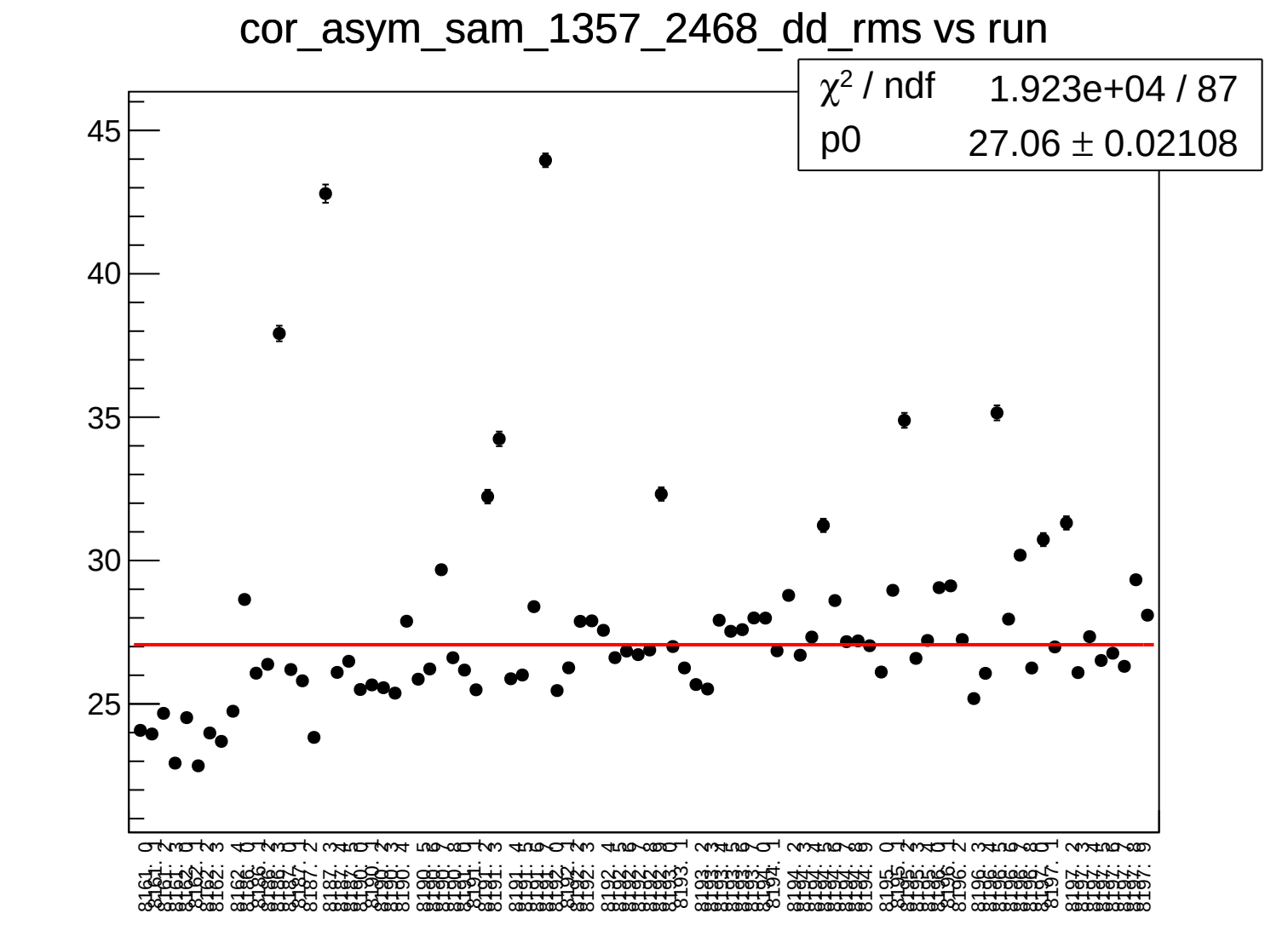

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.923e+04 / 87
p0 27.06 ± 0.02108
45
40
35
30
25

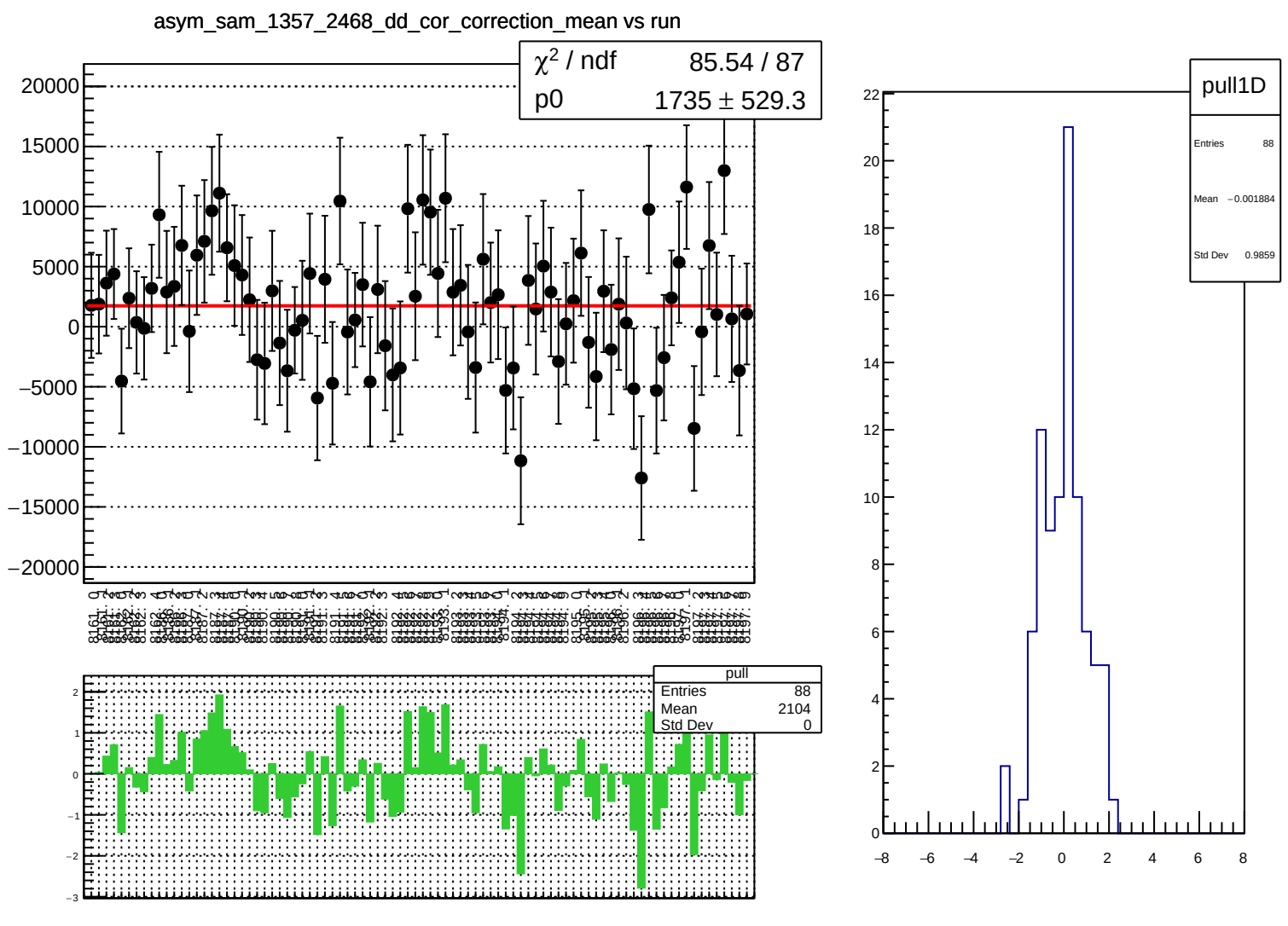

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 85.54 / 87
p0 1735 ± 529.3
pull
Entries 88
Mean 2104
Std Dev 0
pull1D
Entries 88
Mean −0.001884
Std Dev 0.9859

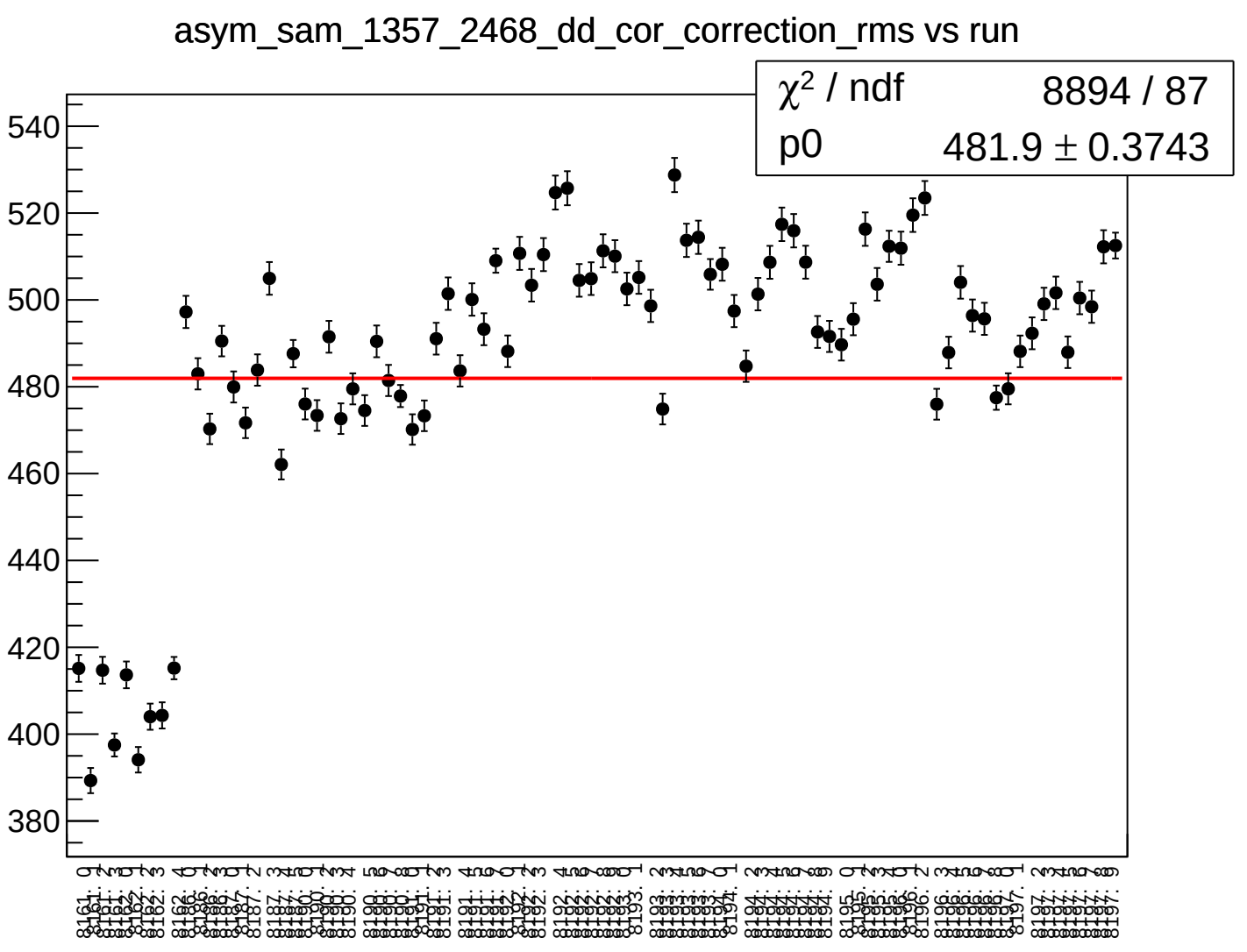

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 8894 / 87
p0 481.9 ± 0.3743
540
520
500
480
460
440
420
400
380

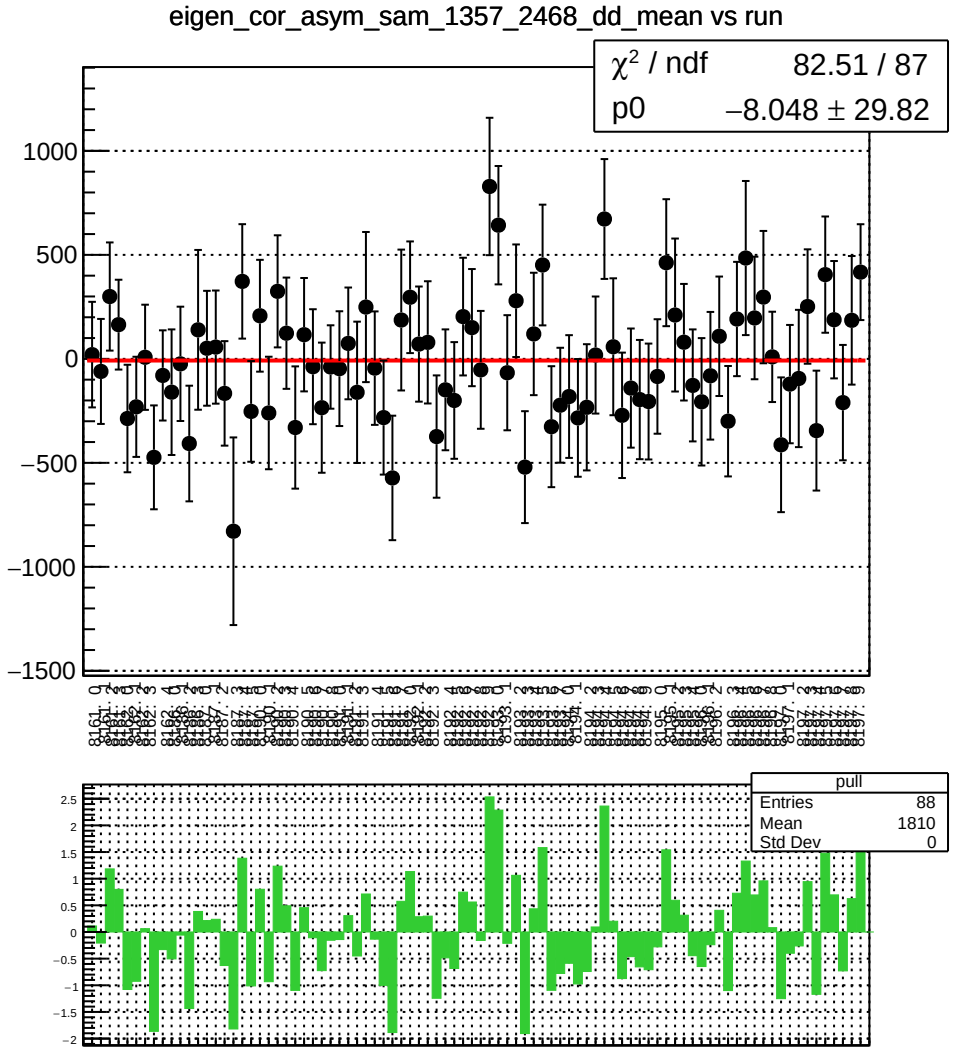

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.51 / 87
p0 −8.048 ± 29.82
pull
Entries 88
Mean 1810
Std Dev 0

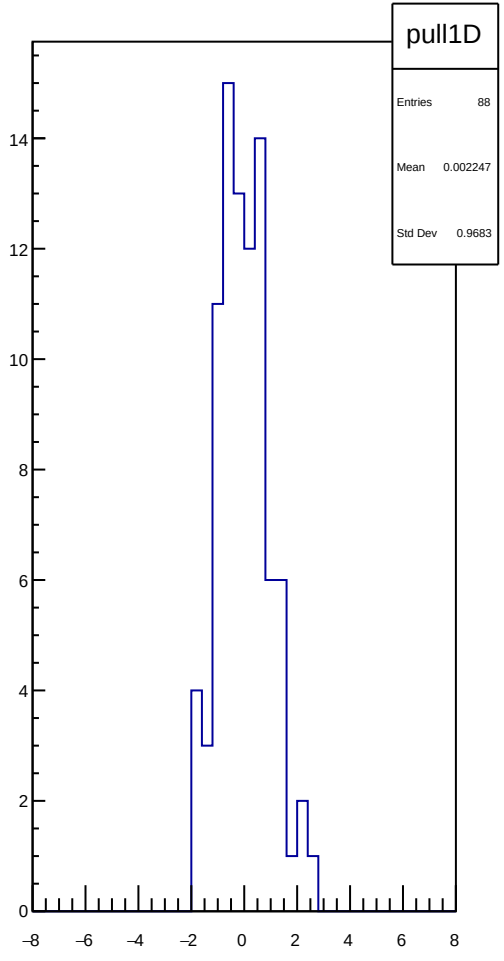

pull1D
Entries 88
Mean 0.002247
Std Dev 0.9683

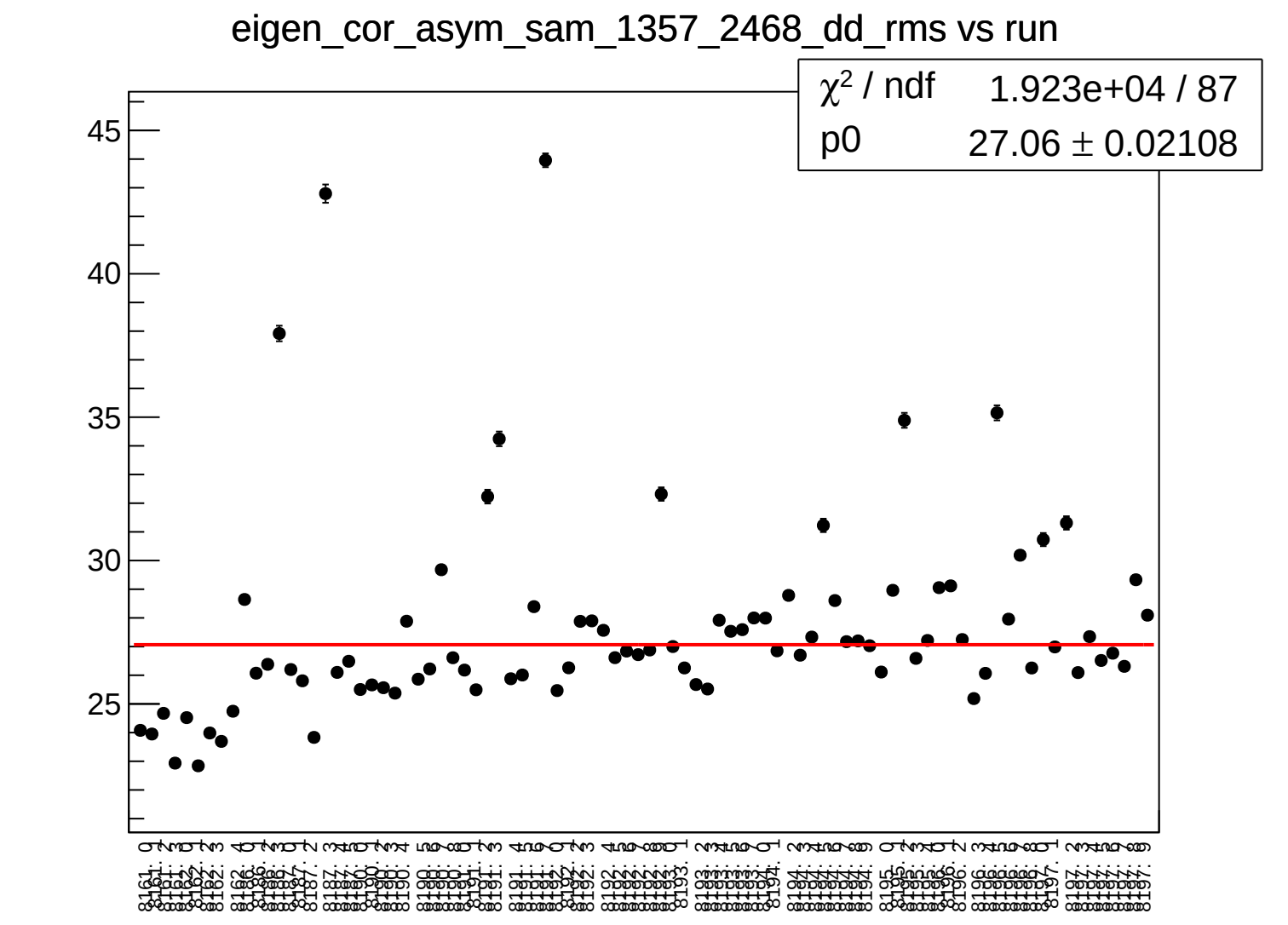

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.923e+04 / 87
p0 27.06 ± 0.02108
45
40
35
30
25

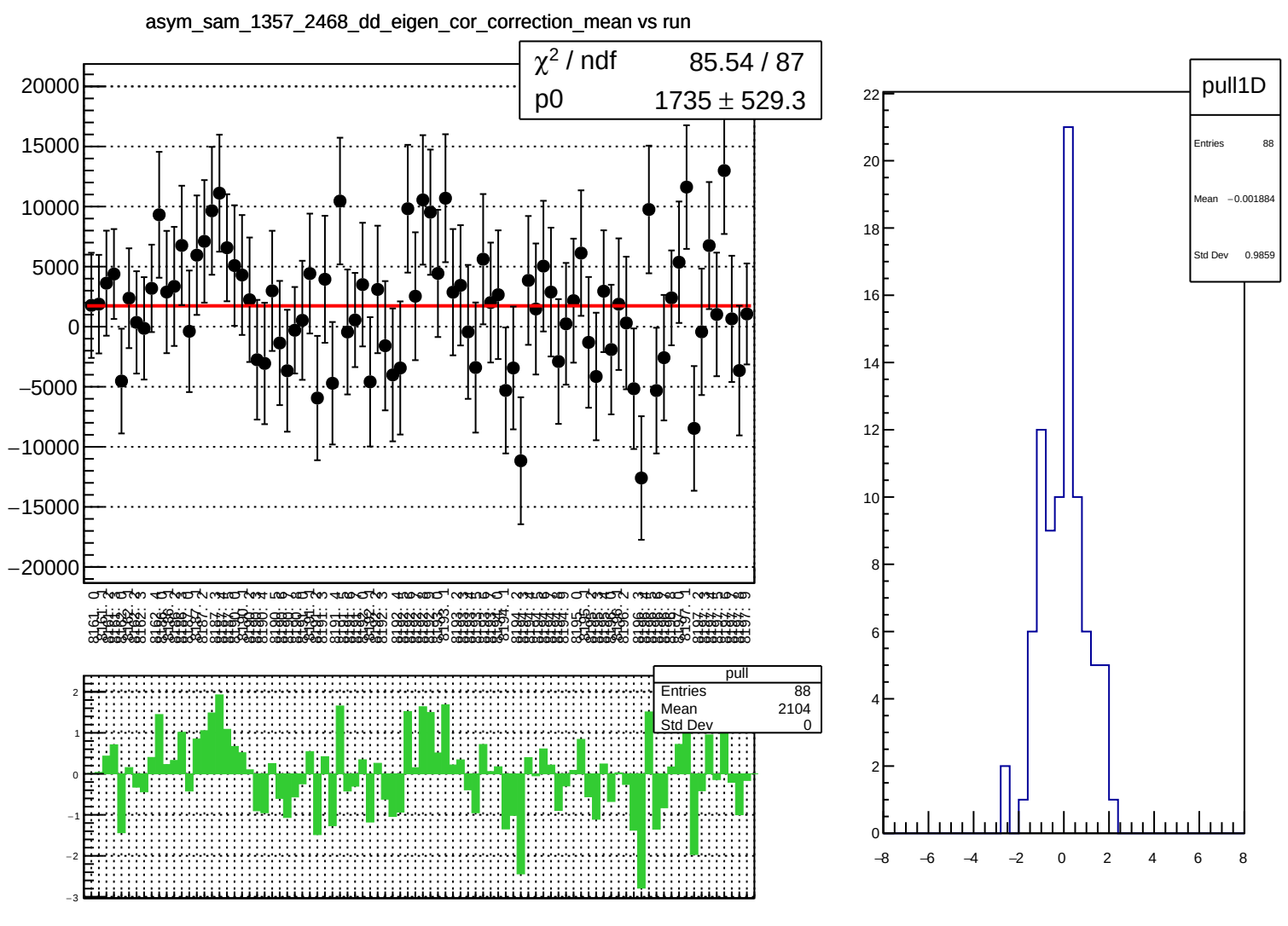

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 85.54 / 87
p0 1735 ± 529.3
pull
Entries 88
Mean 2104
Std Dev 0
pull1D
Entries 88
Mean −0.001884
Std Dev 0.9859

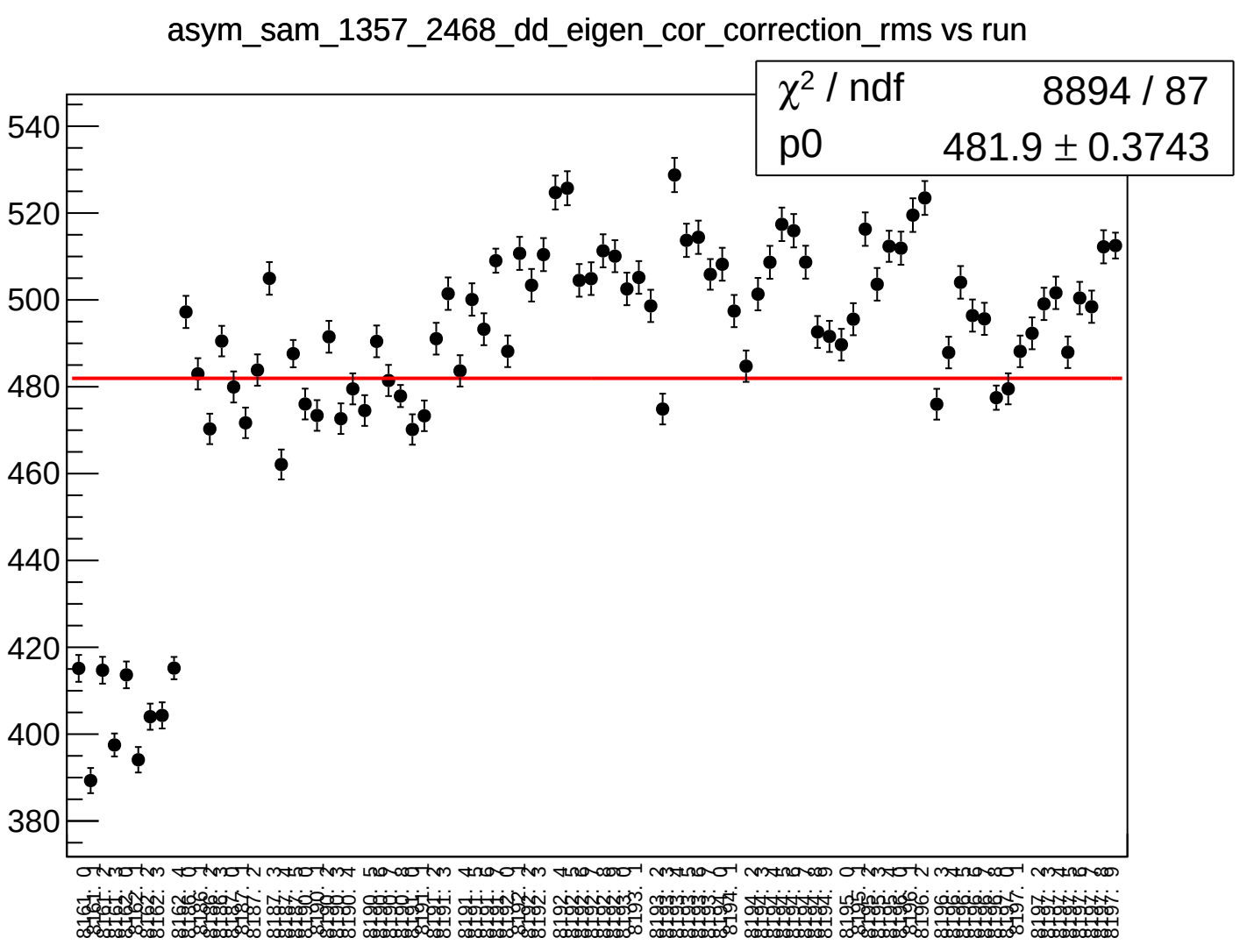

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ^2 / ndf 8894 / 87
p0 481.9 ± 0.3743
540
520
500
480
460
440
420
400
380

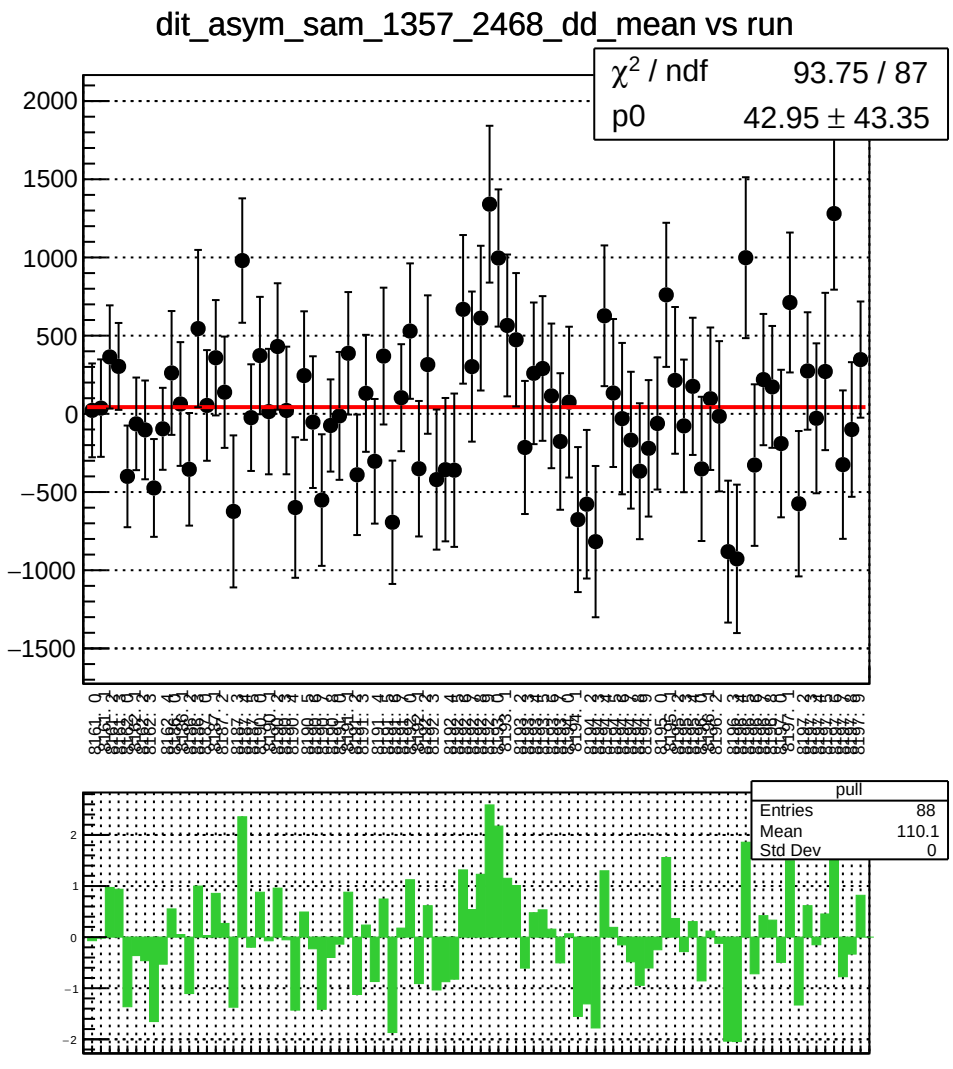

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 82.51 / 87
p0 −8.048 ± 29.82
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 1810
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

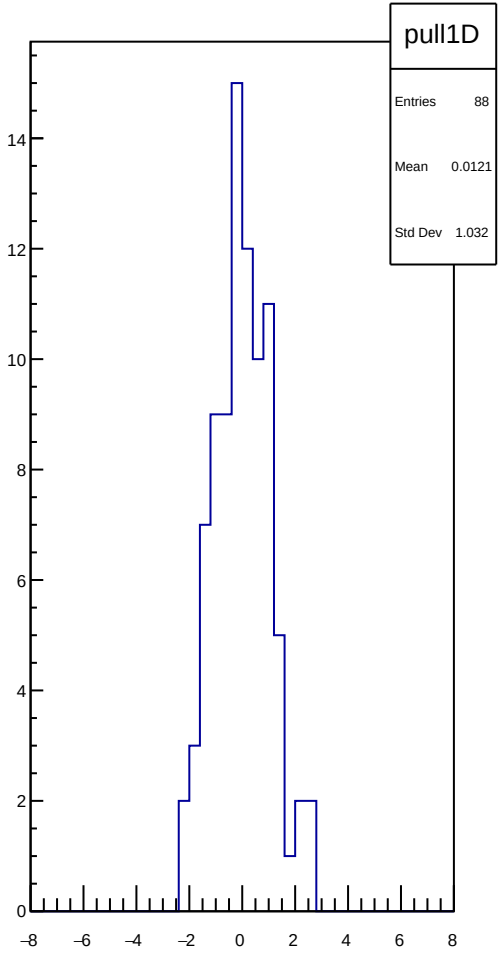

pull1D
Entries 88
Mean 0.002247
Std Dev 0.9683
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

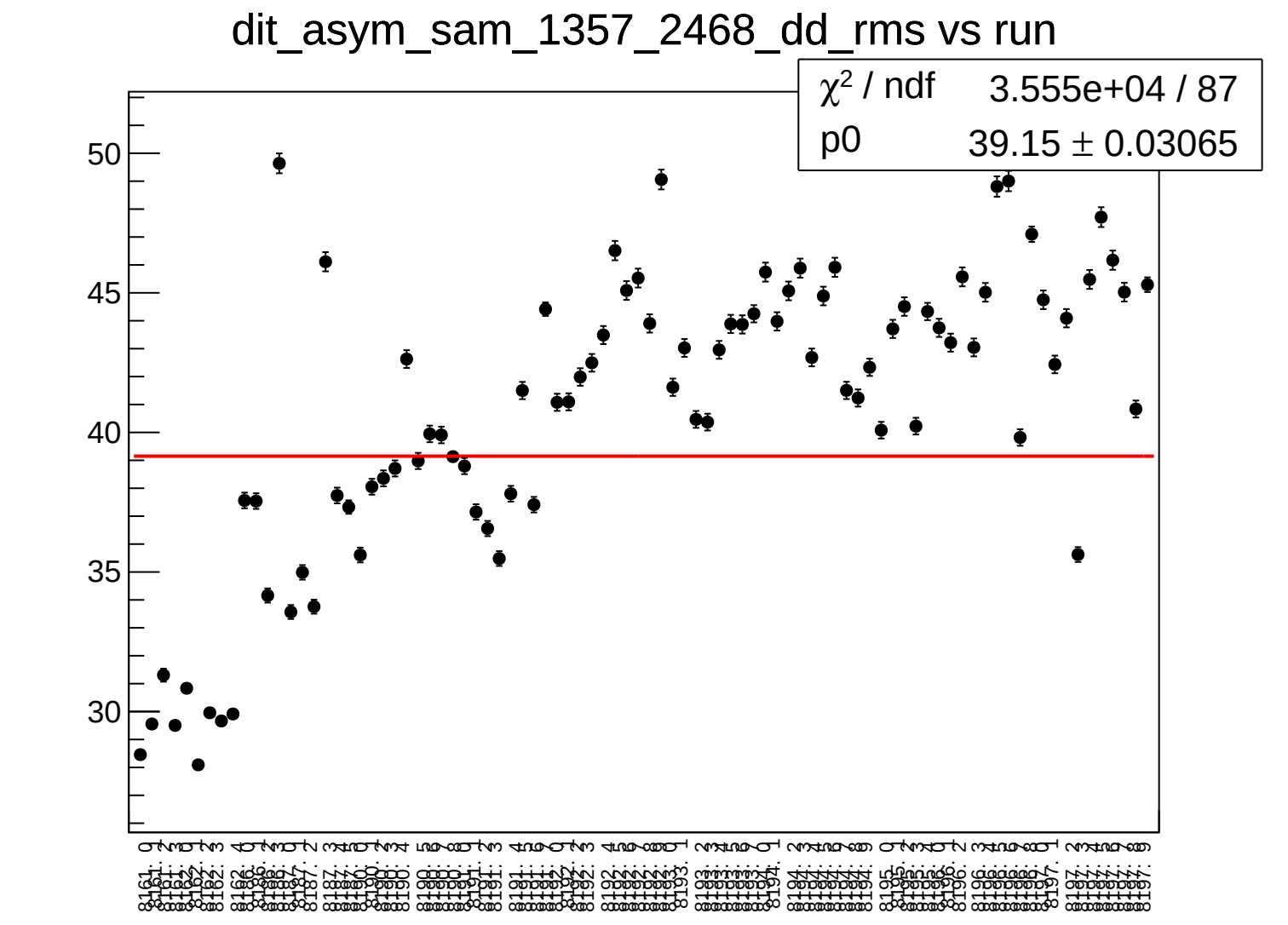

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.923e+04 / 87
p0 27.06 ± 0.02108
45
40
35
30
25

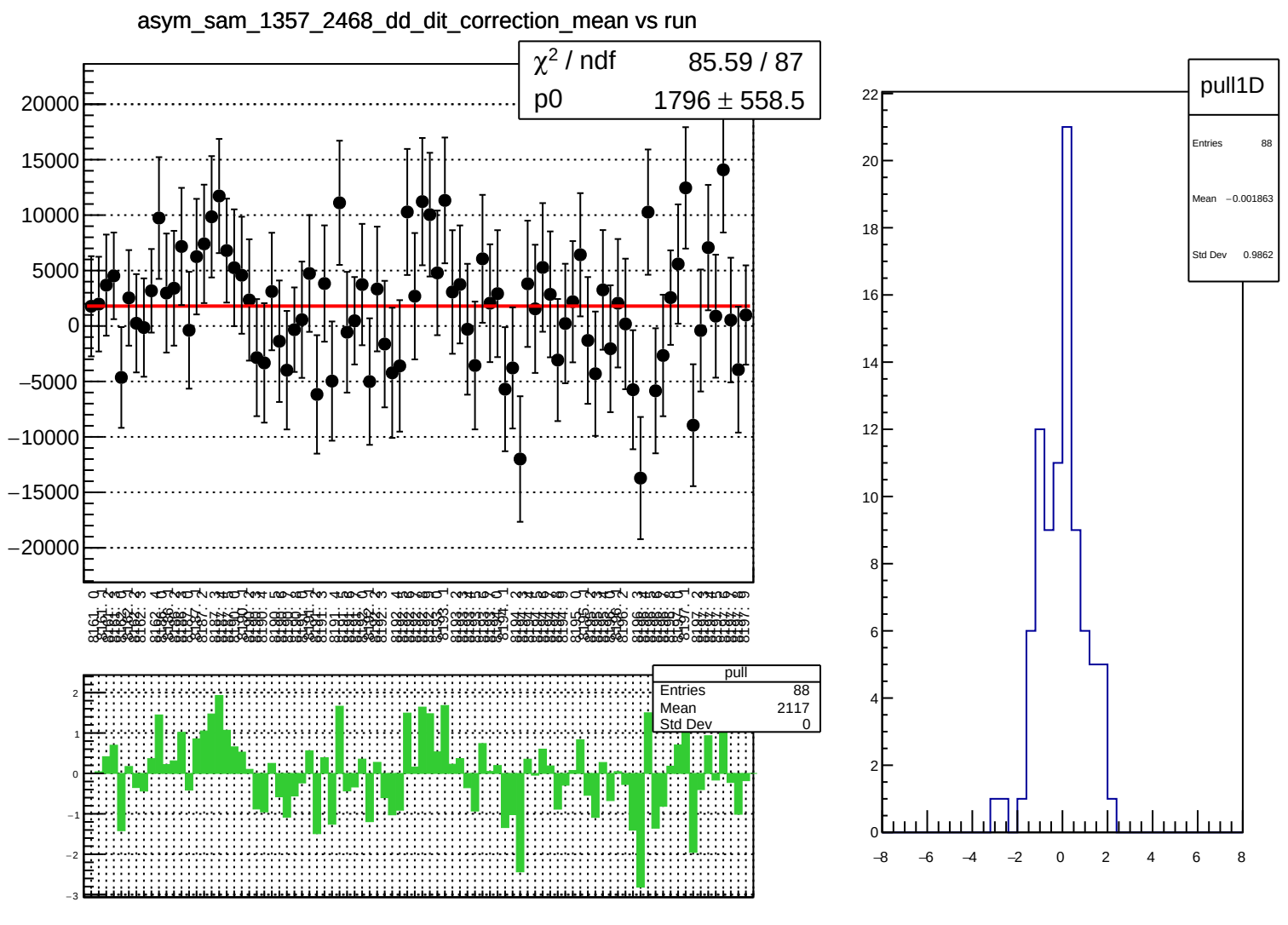

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.54 / 87
p0 1735 ± 529.3
pull
Entries 88
Mean 2104
Std Dev 0
pull1D
Entries 88
Mean −0.001884
Std Dev 0.9859

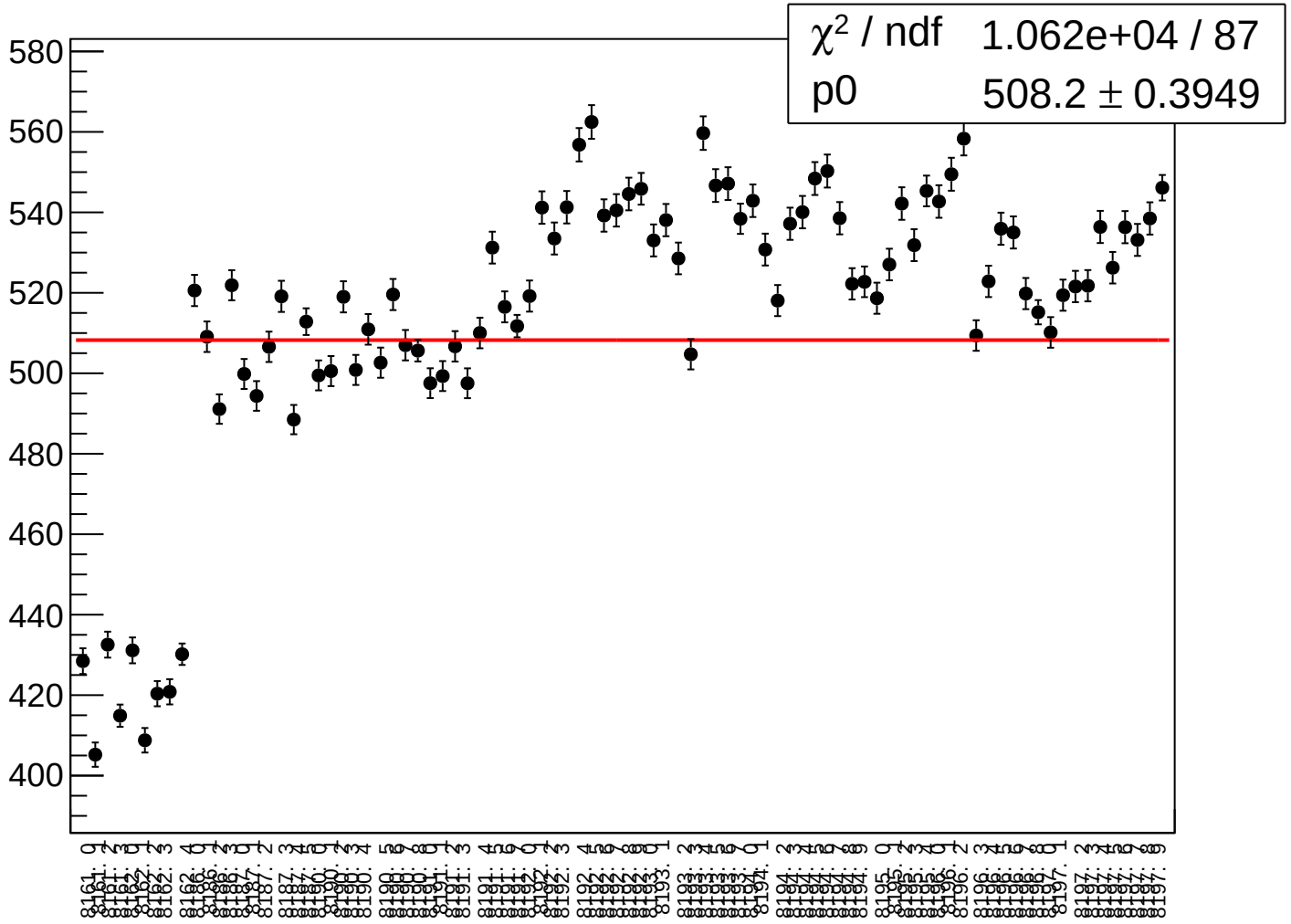

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 8894 / 87
p0 481.9 ± 0.3743
540
520
500
480
460
440
420
400
380

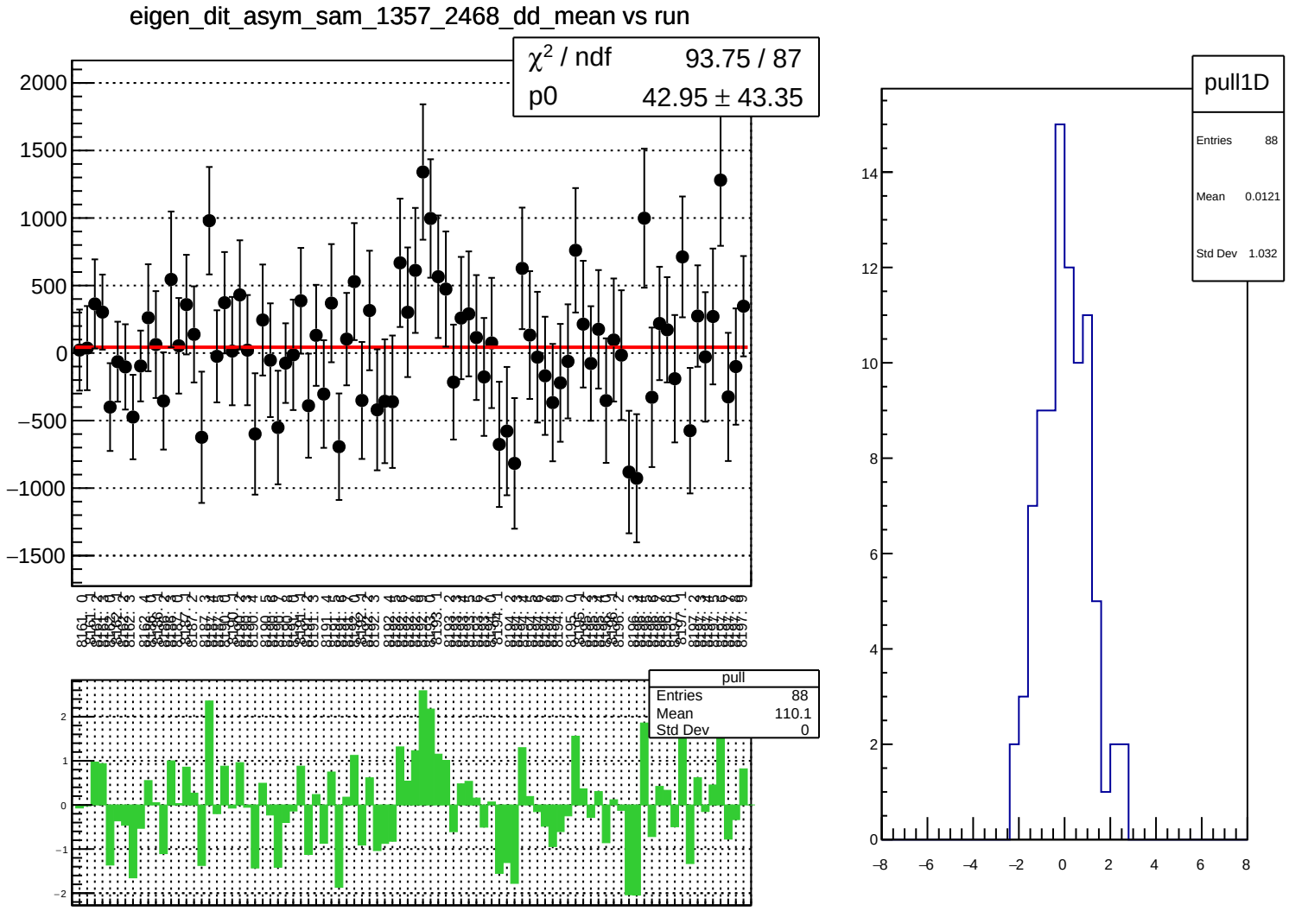

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 93.75 / 87
p0 42.95 ± 43.35
pull
Entries 88
Mean 110.1
Std Dev 0

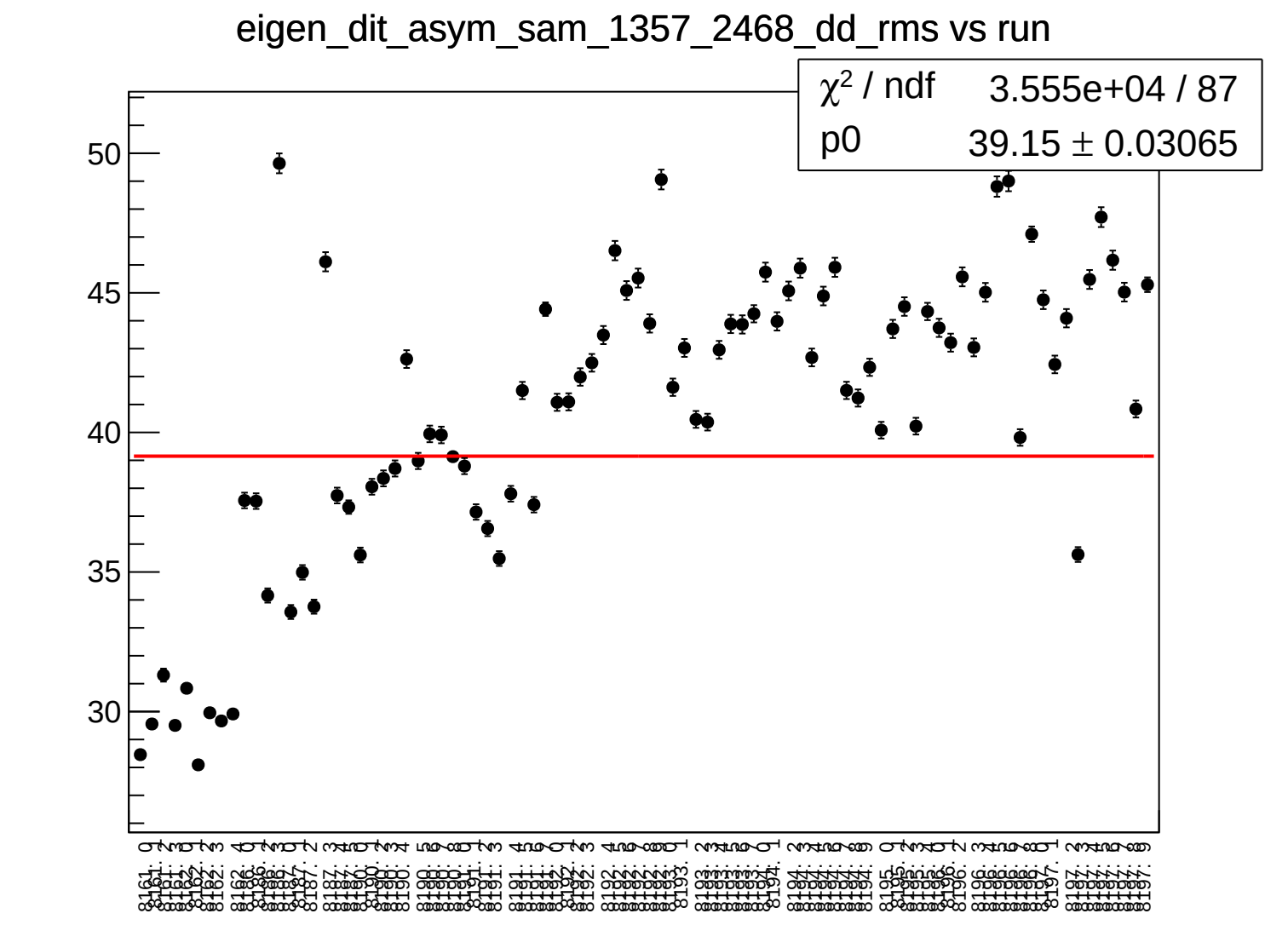

pull1D
Entries 88
Mean 0.0121
Std Dev 1.032

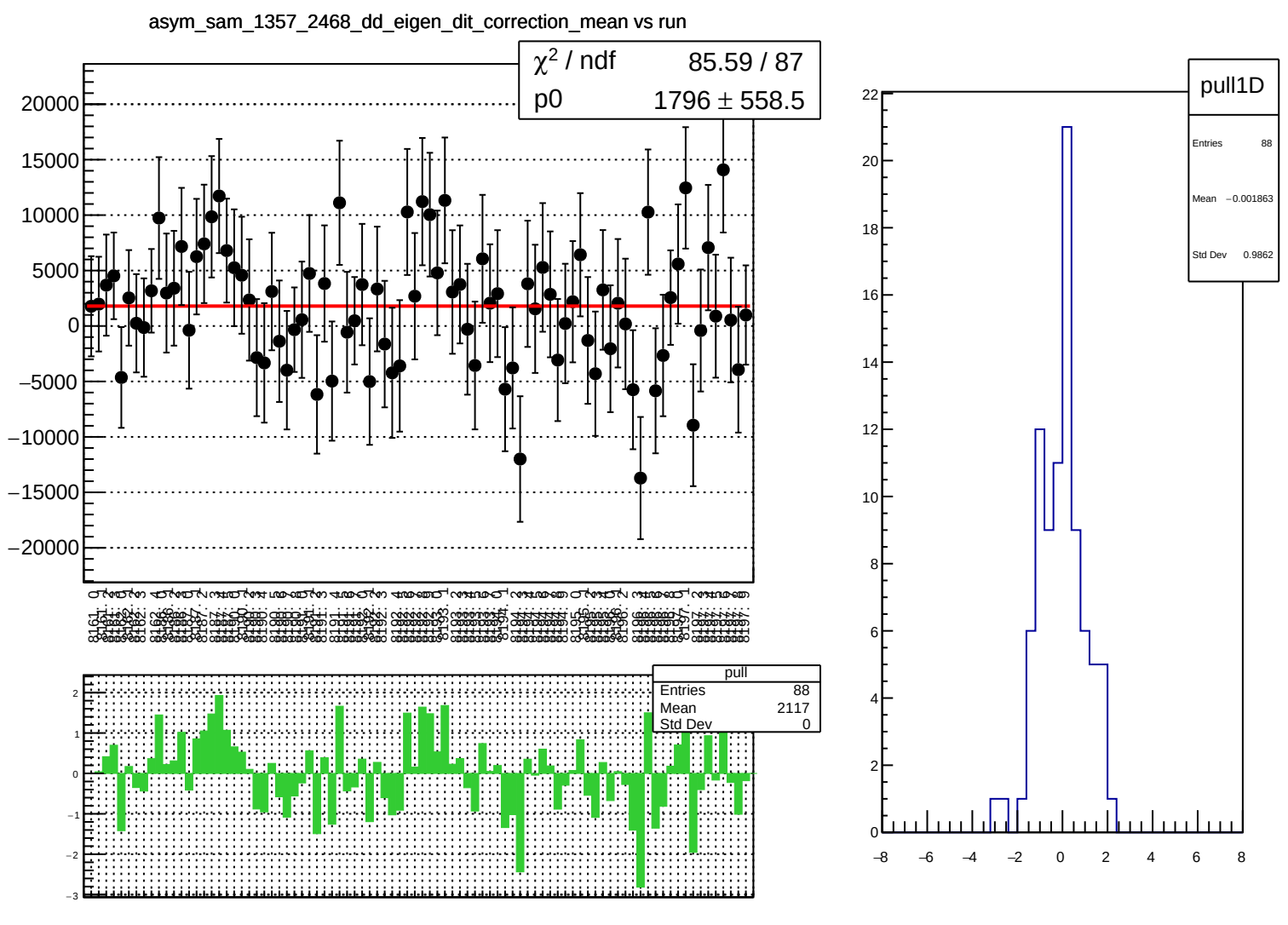

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.555e+04 / 87
p0 39.15 ± 0.03065
50
45
40
35
30

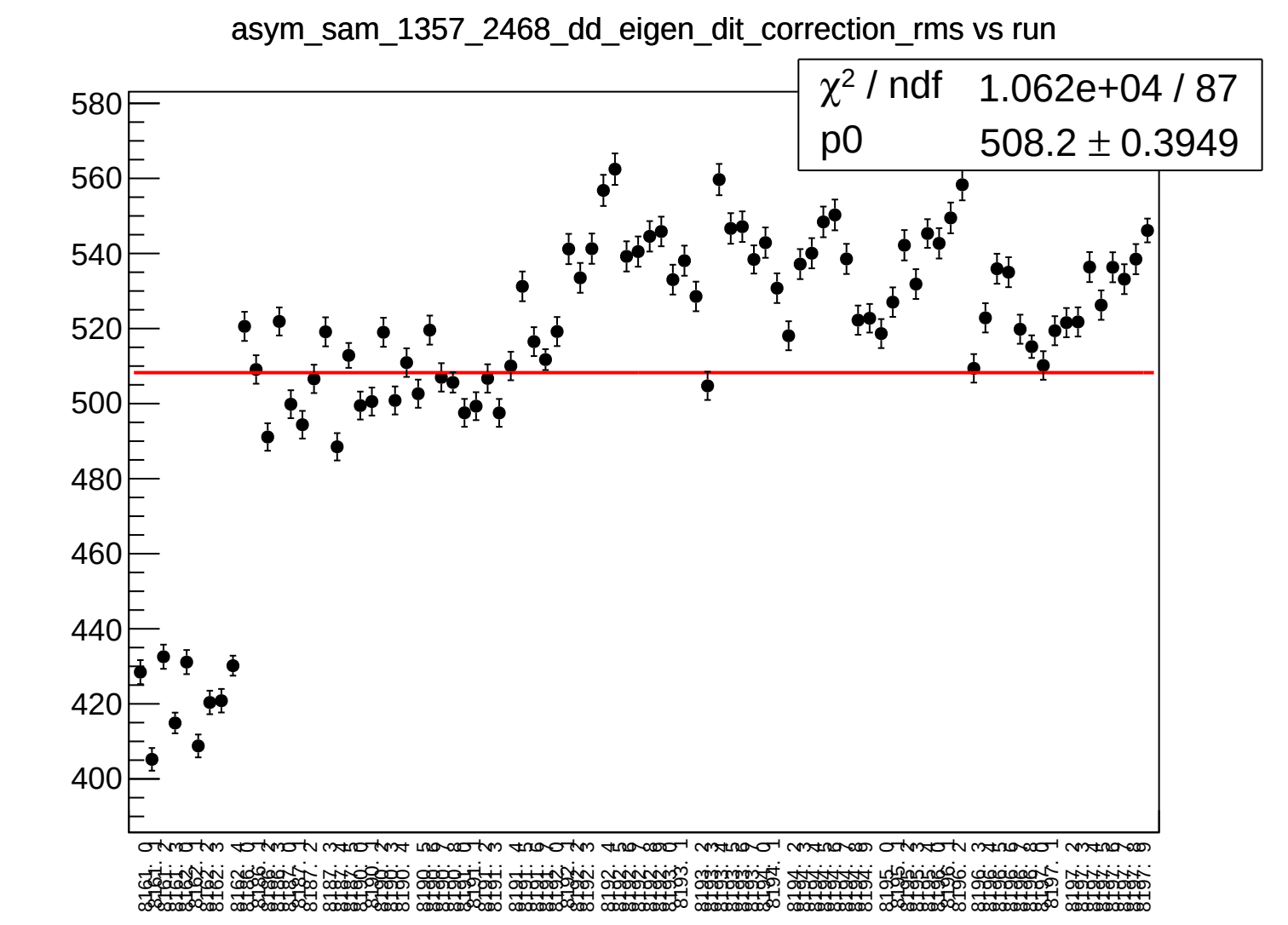

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 85.59 / 87
p0 1796 ± 558.5
pull
Entries 88
Mean 2117
Std Dev 0
pull1D
Entries 88
Mean −0.001863
Std Dev 0.9862

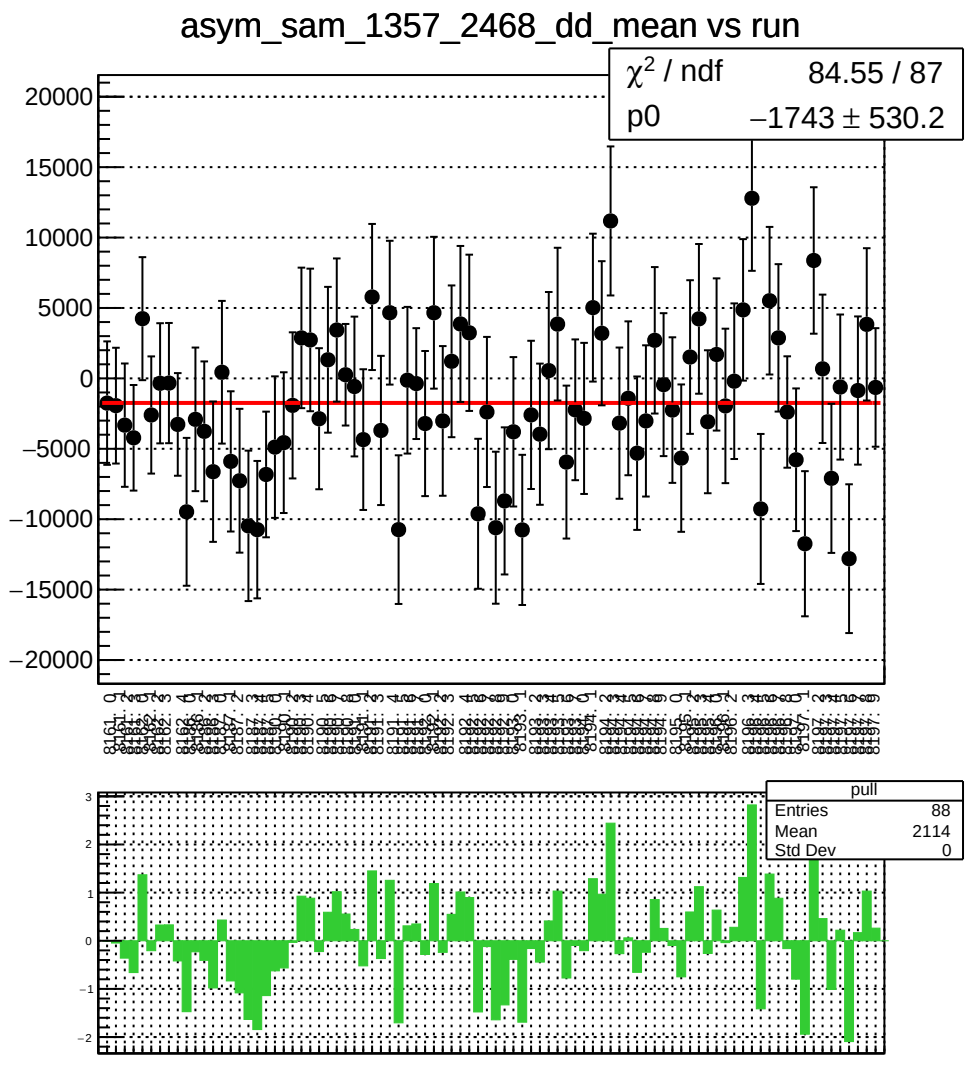

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.062e+04 / 87
p0 508.2 ± 0.3949
580
560
540
520
500
480
460
440
420
400

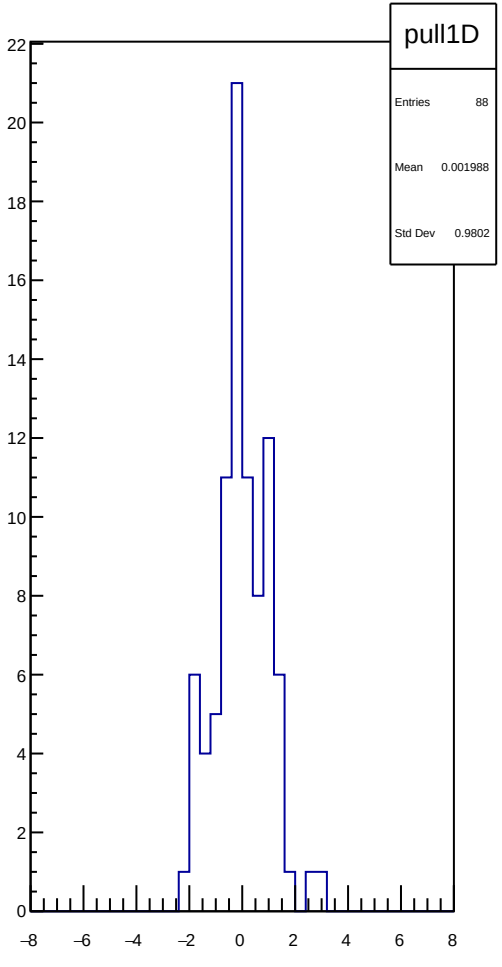

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 93.75 / 87
p0 42.95 ± 43.35
pull
Entries 88
Mean 110.1
Std Dev 0
pull1D
Entries 88
Mean 0.0121
Std Dev 1.032

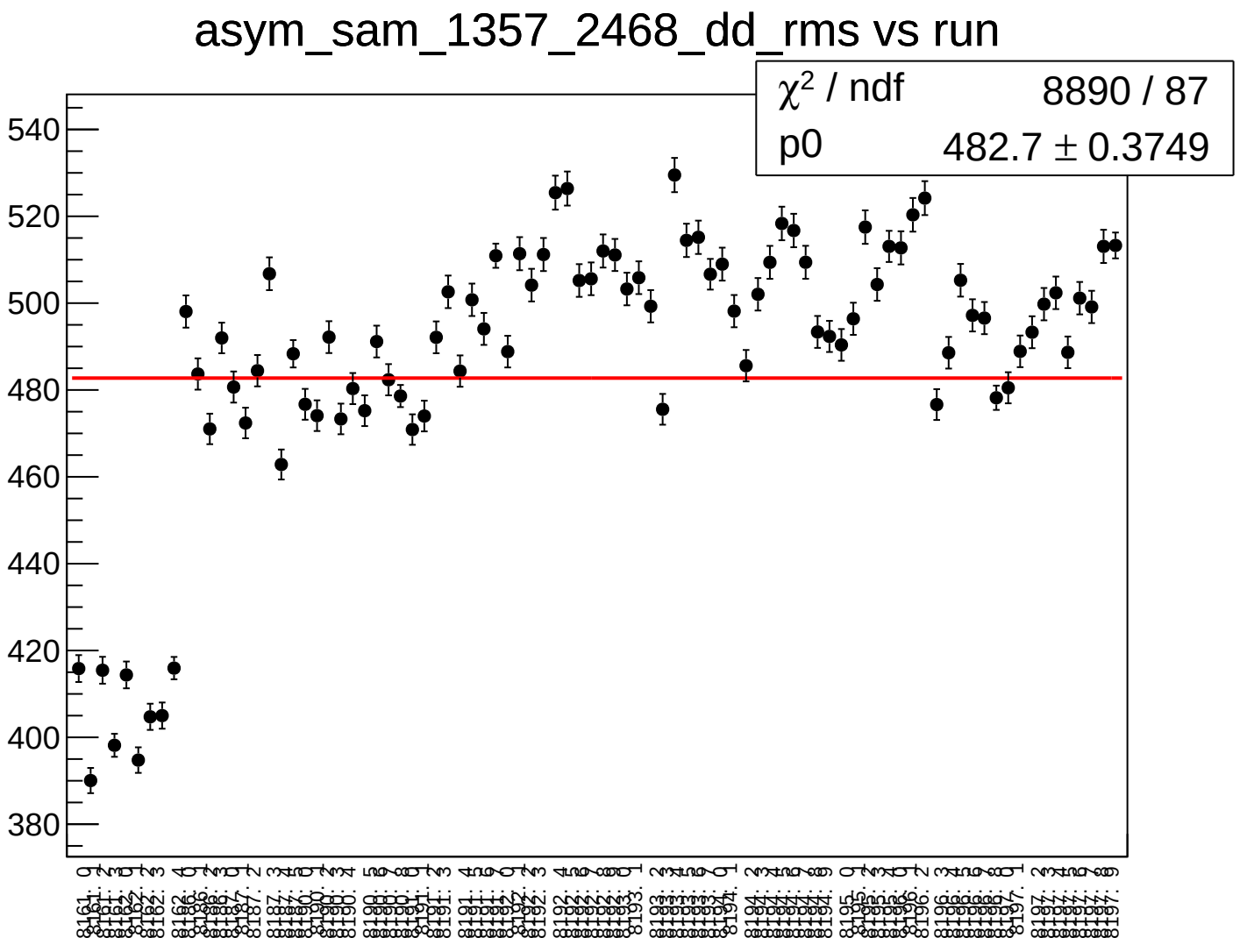

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.555e+04 / 87
p0 39.15 ± 0.03065
50
45
40
35
30

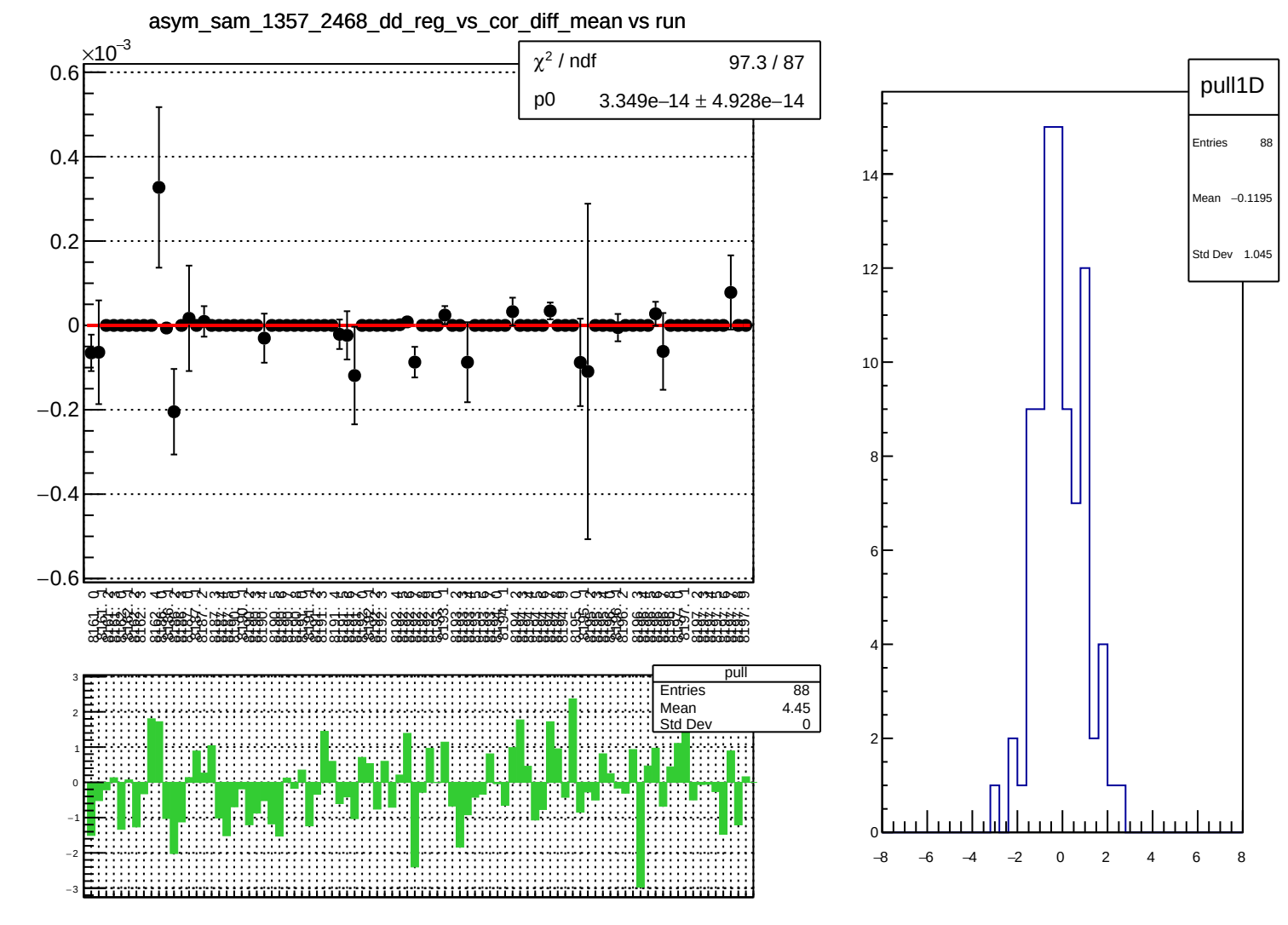

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.59 / 87
p0 1796 ± 558.5
pull
Entries 88
Mean 2117
Std Dev 0
pull1D
Entries 88
Mean −0.001863
Std Dev 0.9862

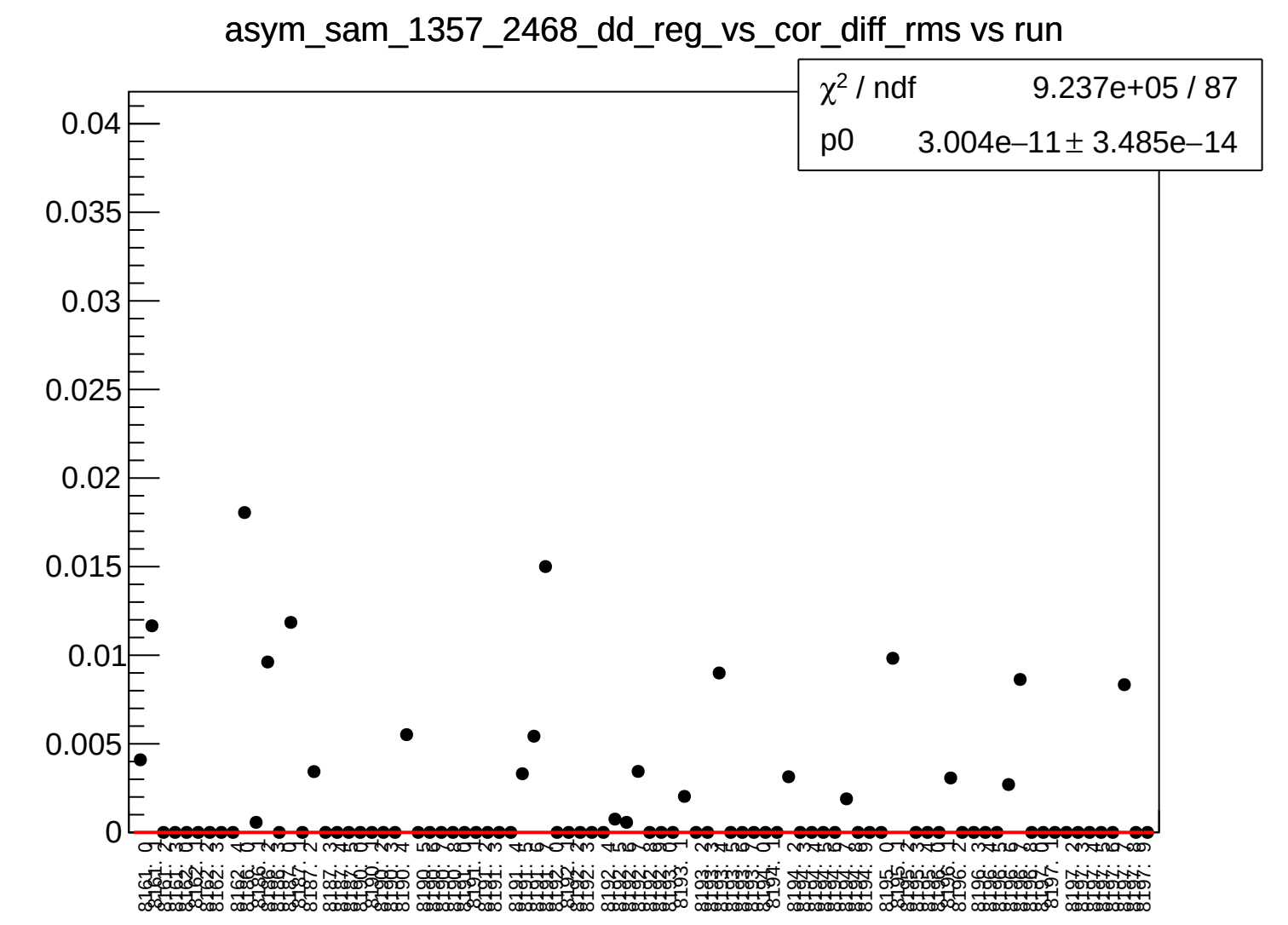

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.062e+04 / 87
p0 508.2 ± 0.3949
580
560
540
520
500
480
460
440
420
400

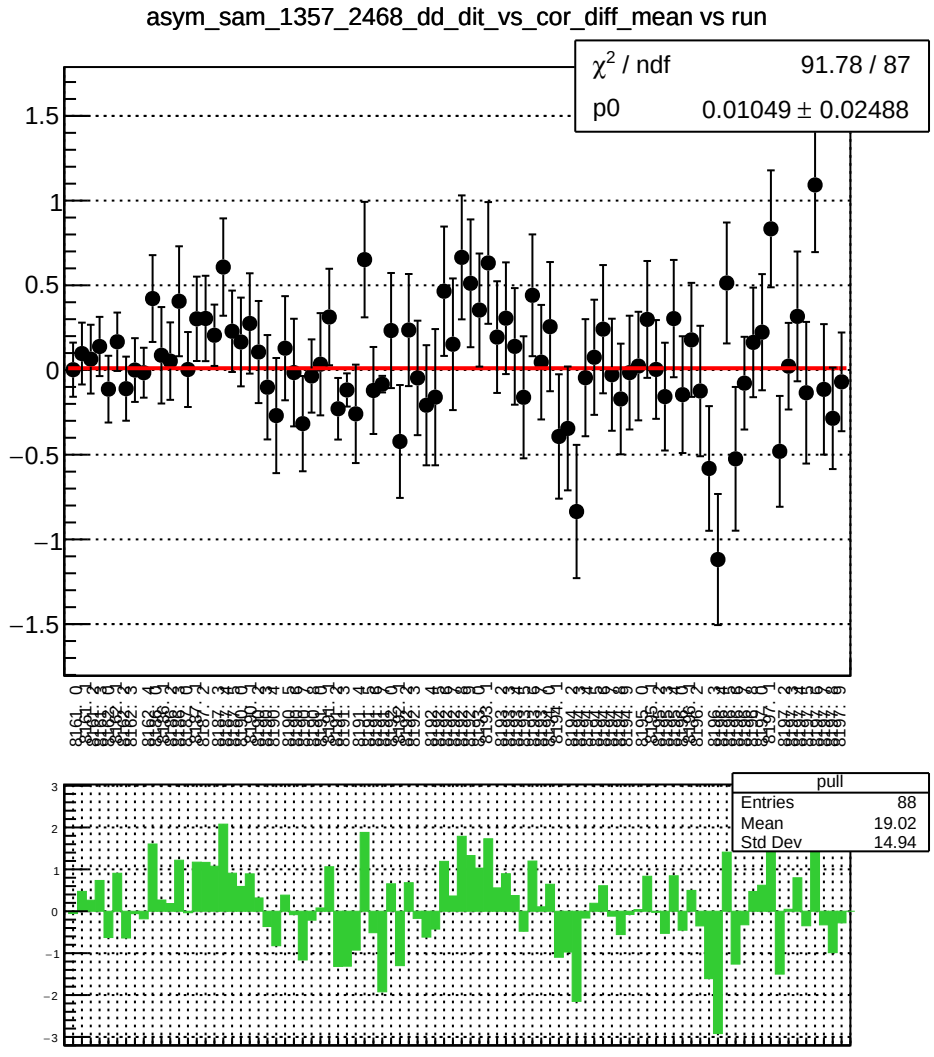

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.55 / 87
p0 −1743 ± 530.2
pull
Entries 88
Mean 2114
Std Dev 0

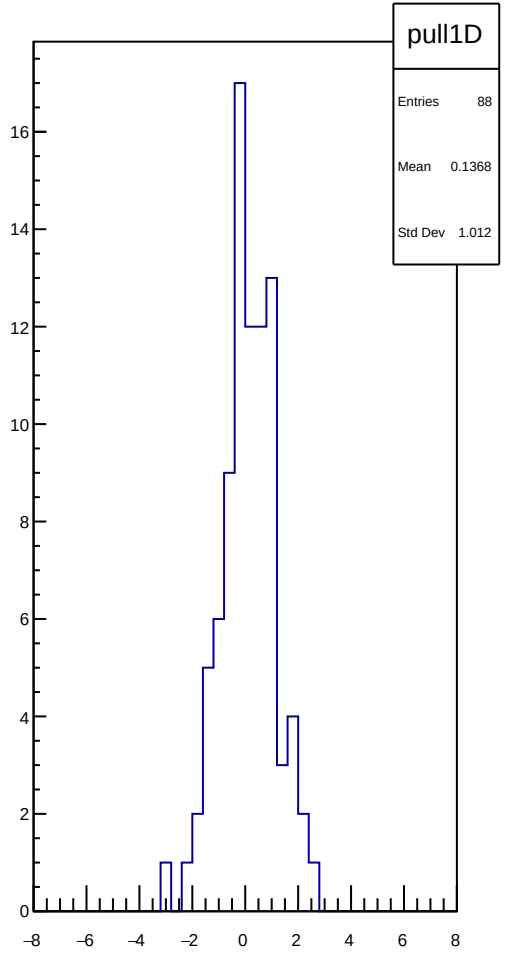

pull1D
Entries 88
Mean 0.001988
Std Dev 0.9802

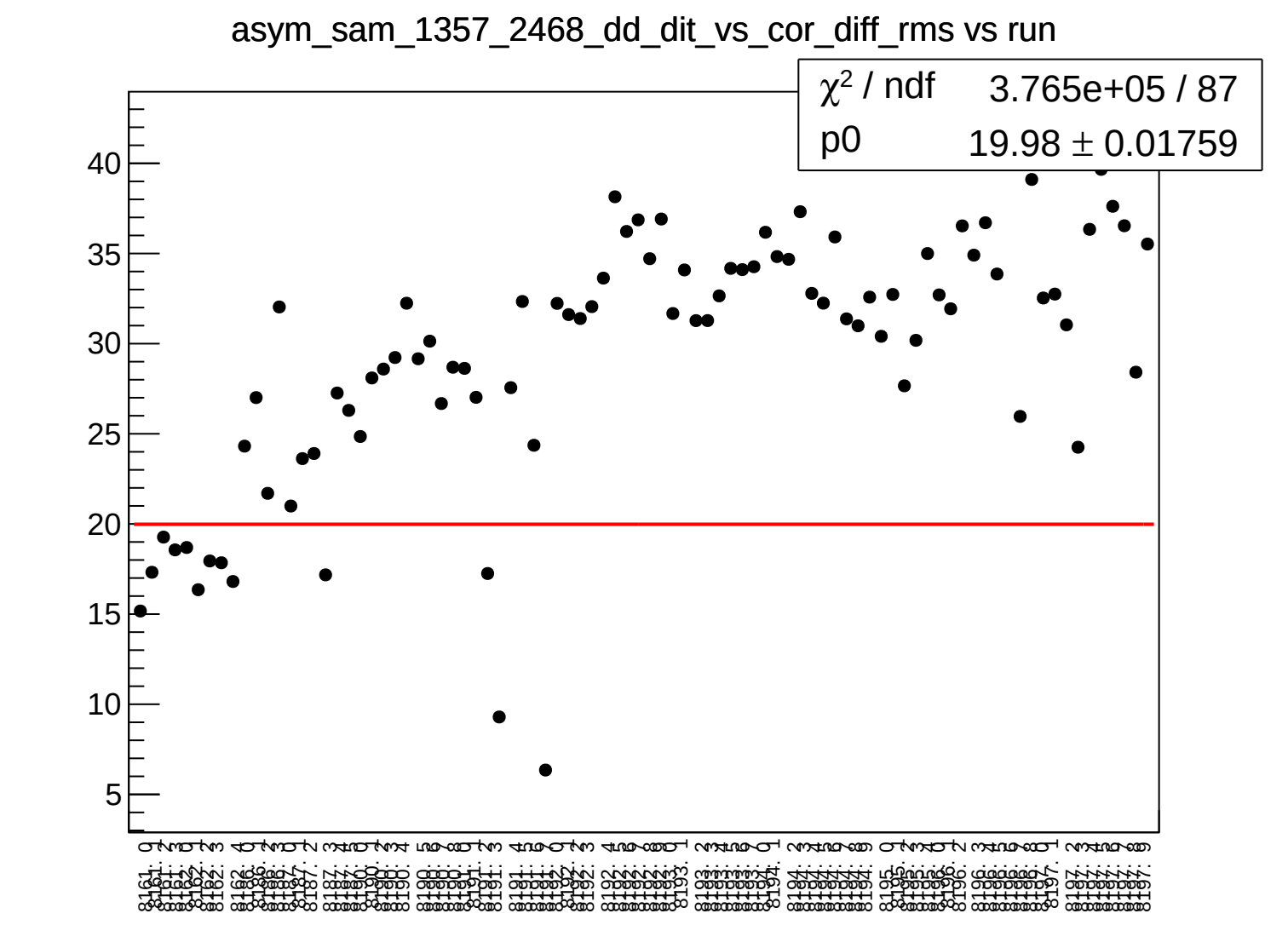

asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 8890 / 87
p0 482.7 ± 0.3749
540
520
500
480
460
440
420
400
380

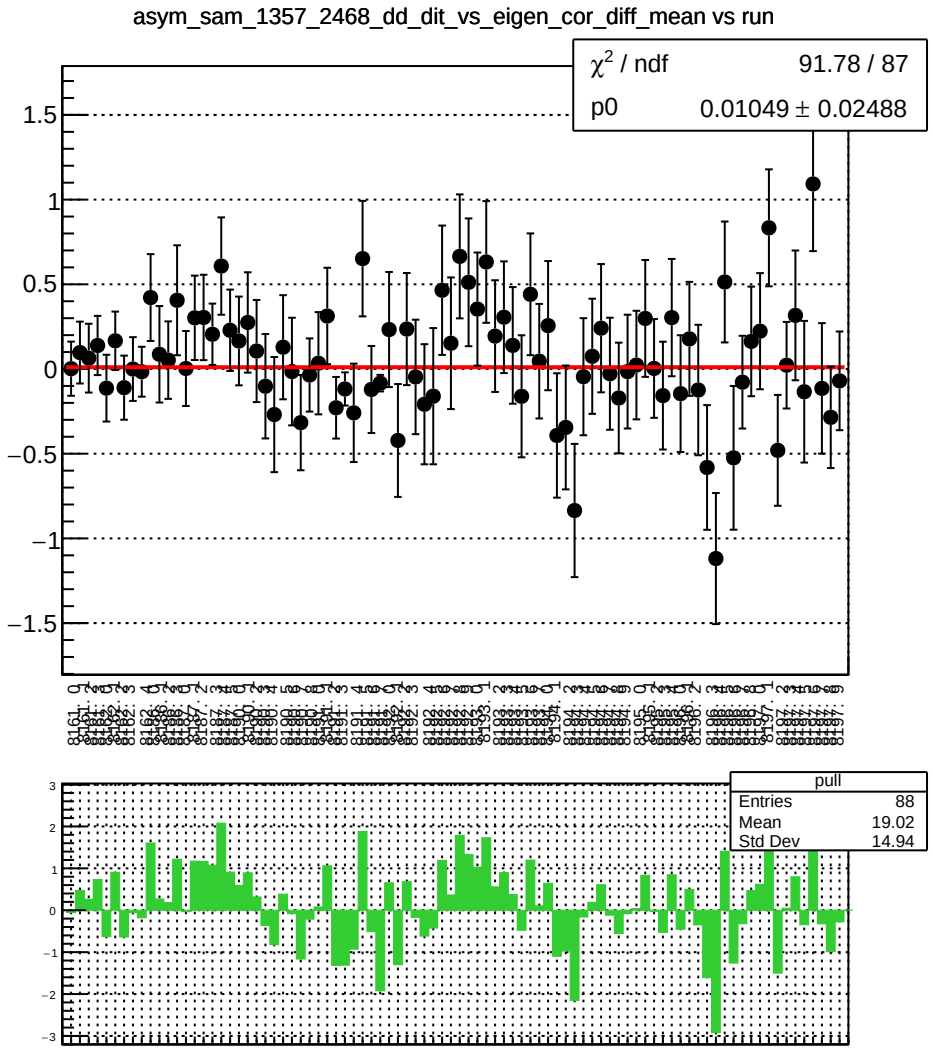

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 97.3 / 87
p0 3.349e−14 ± 4.928e−14
pull
Entries 88
Mean 4.45
Std Dev 0
pull1D
Entries 88
Mean −0.1195
Std Dev 1.045

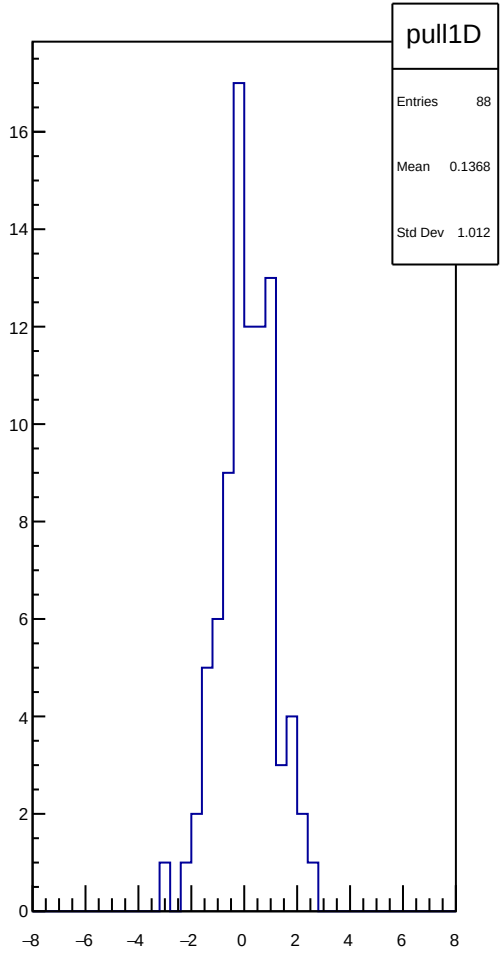

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.237e+05 / 87
p0 3.004e−11 ± 3.485e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

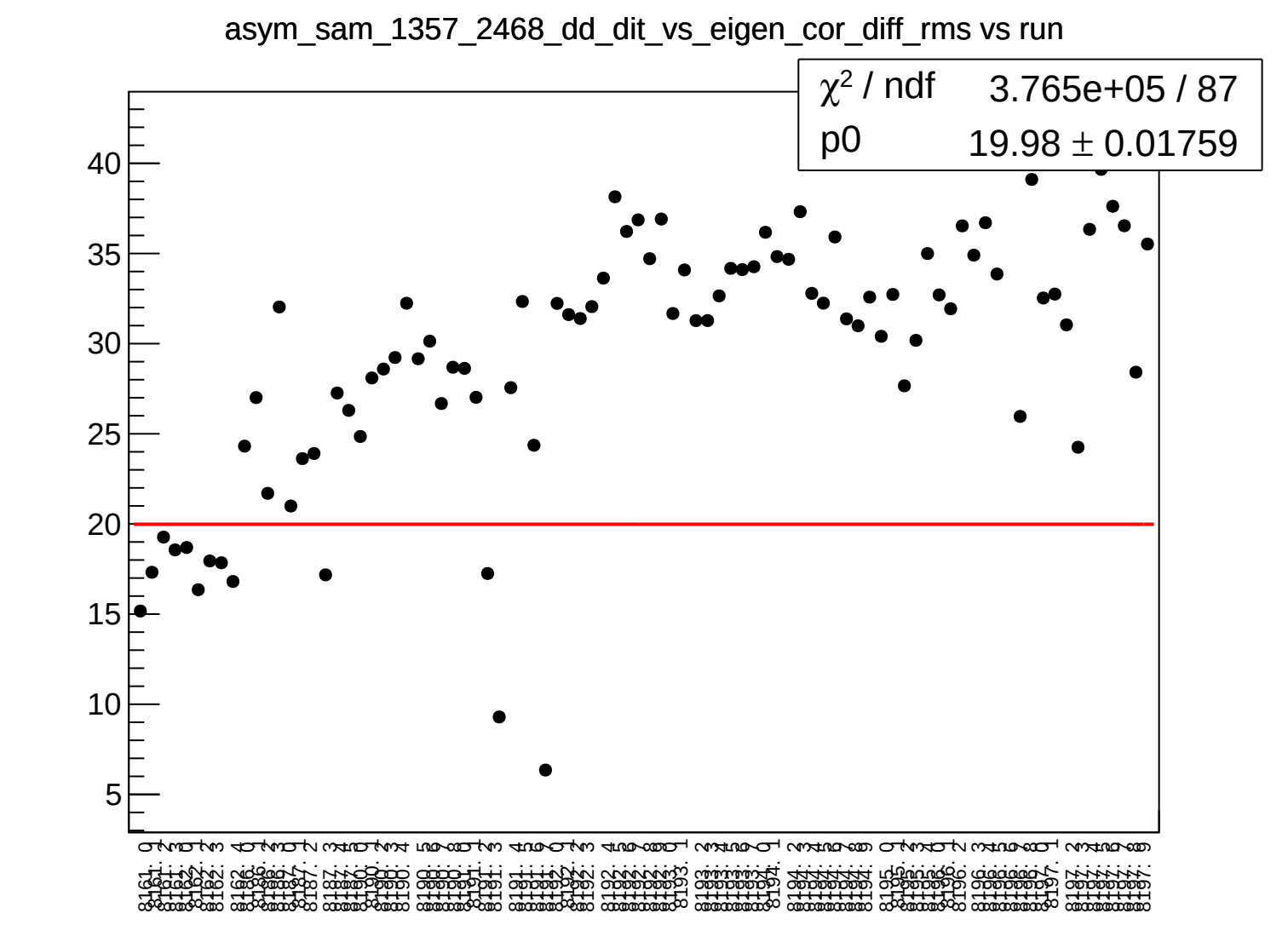

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.78 / 87
p0 0.01049 ± 0.02488
pull
Entries 88
Mean 19.02
Std Dev 14.94

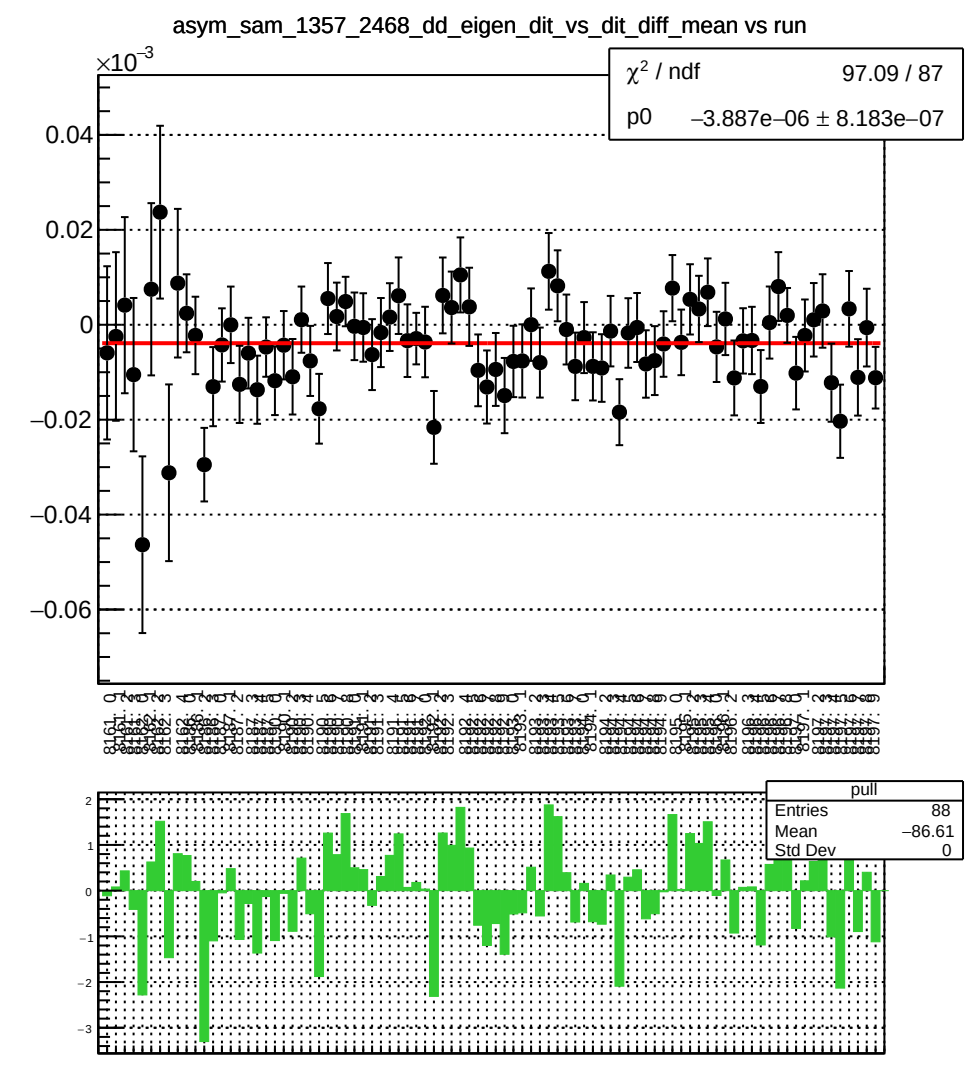

pull1D
Entries 88
Mean 0.1368
Std Dev 1.012

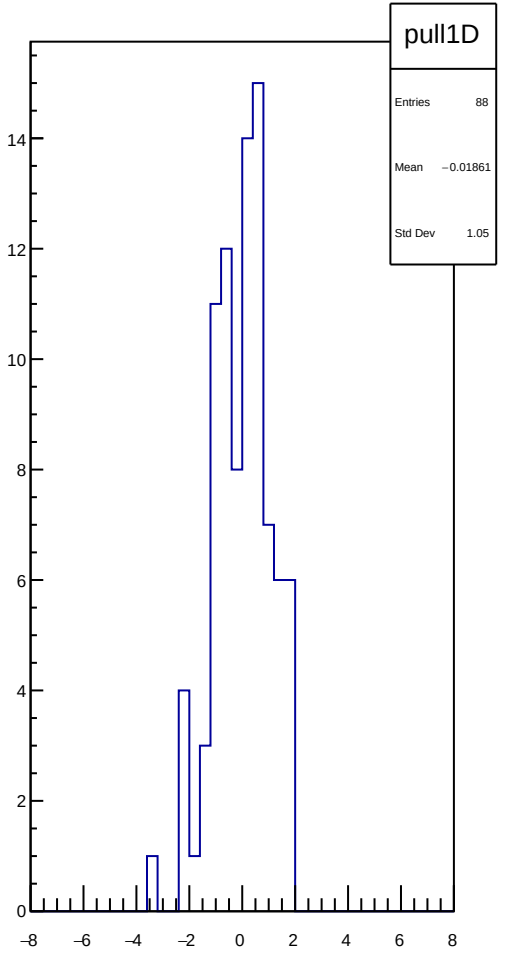

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.765e+05 / 87
p0 19.98 ± 0.01759
40
35
30
25
20
15
10
5

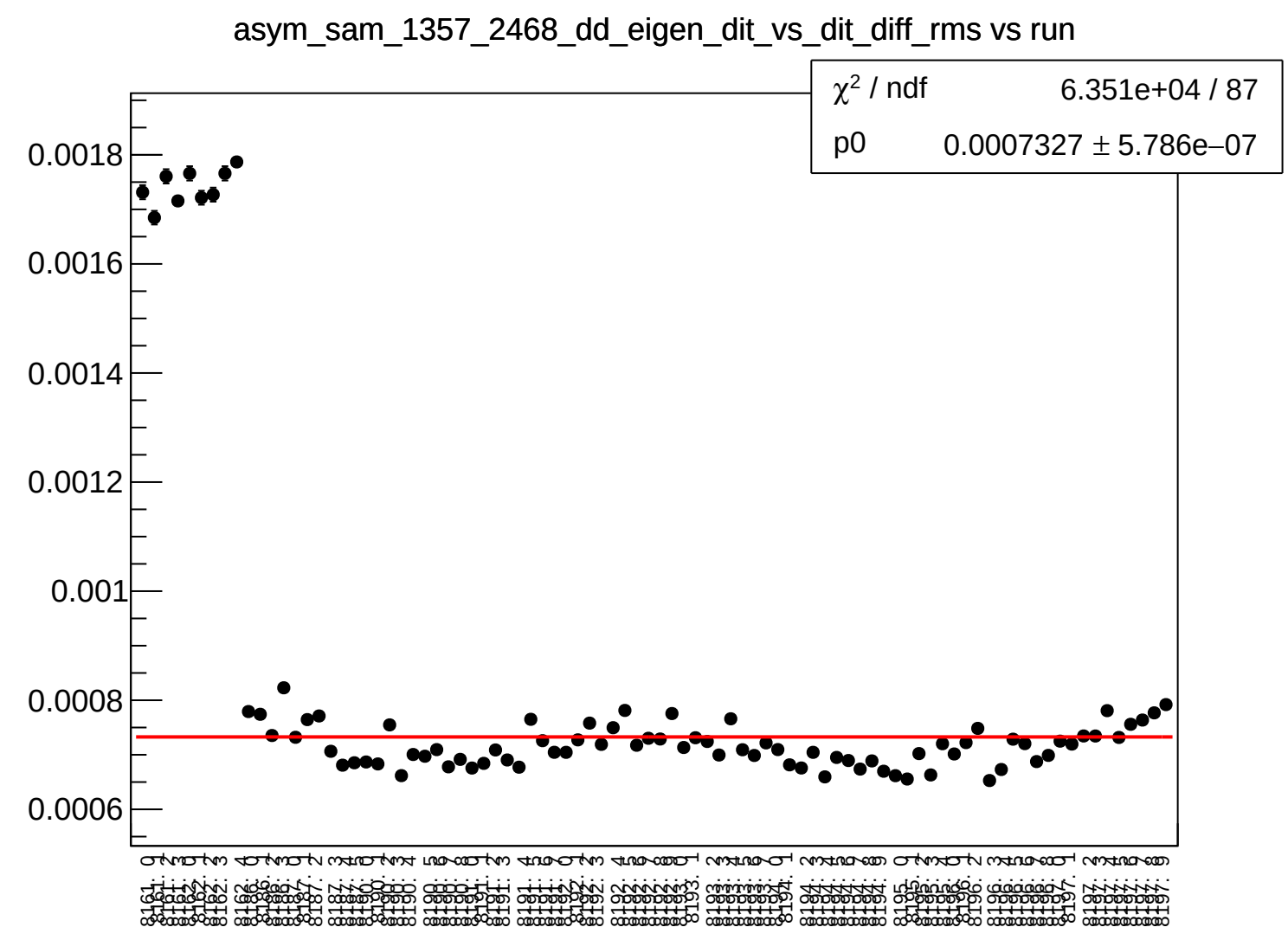

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.78 / 87
p0 0.01049 ± 0.02488
pull
Entries 88
Mean 19.02
Std Dev 14.94

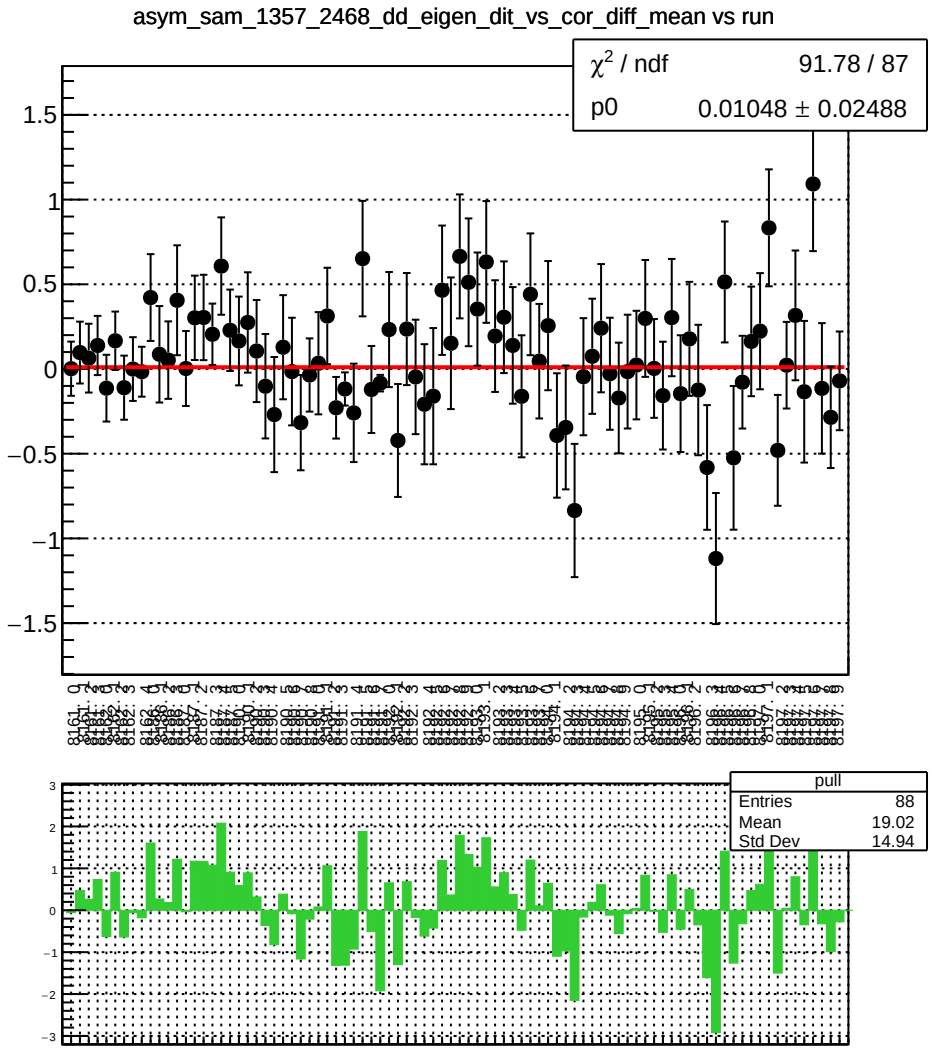

pull1D
Entries 88
Mean 0.1368
Std Dev 1.012

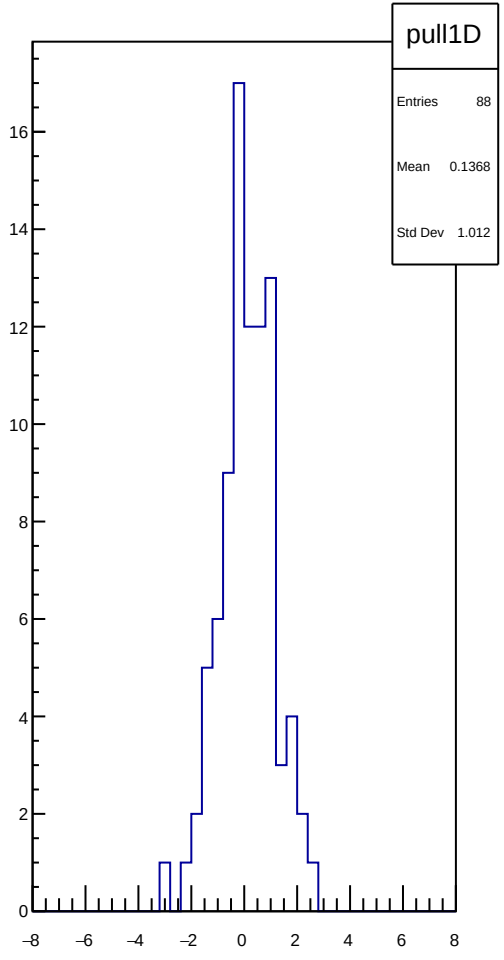

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.765e+05 / 87
p0 19.98 ± 0.01759
40
35
30
25
20
15
10
5

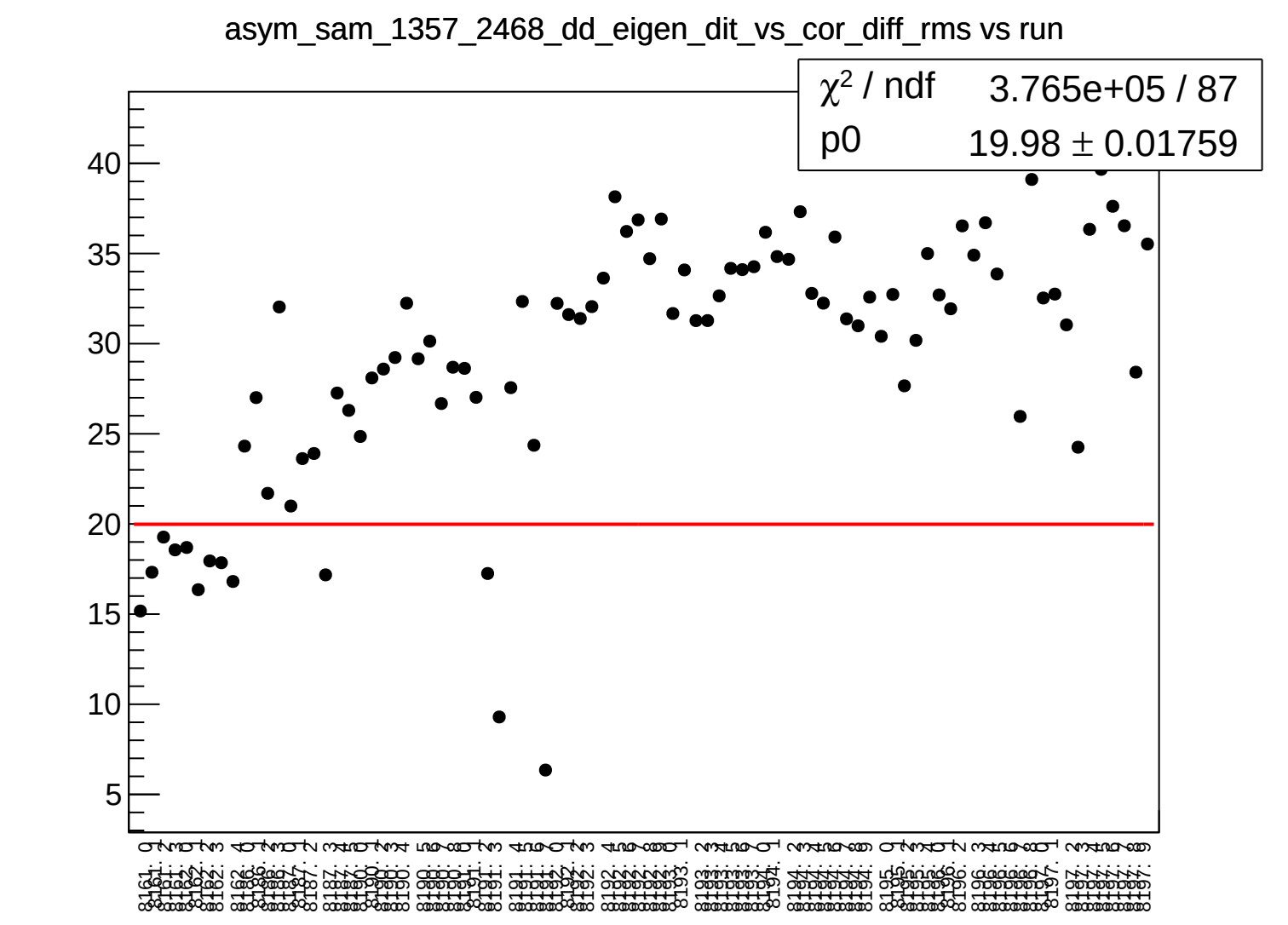

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.09 / 87
p0 −3.887e−06 ± 8.183e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −86.61
Std Dev 0
2
1
0
−1
−2
−3

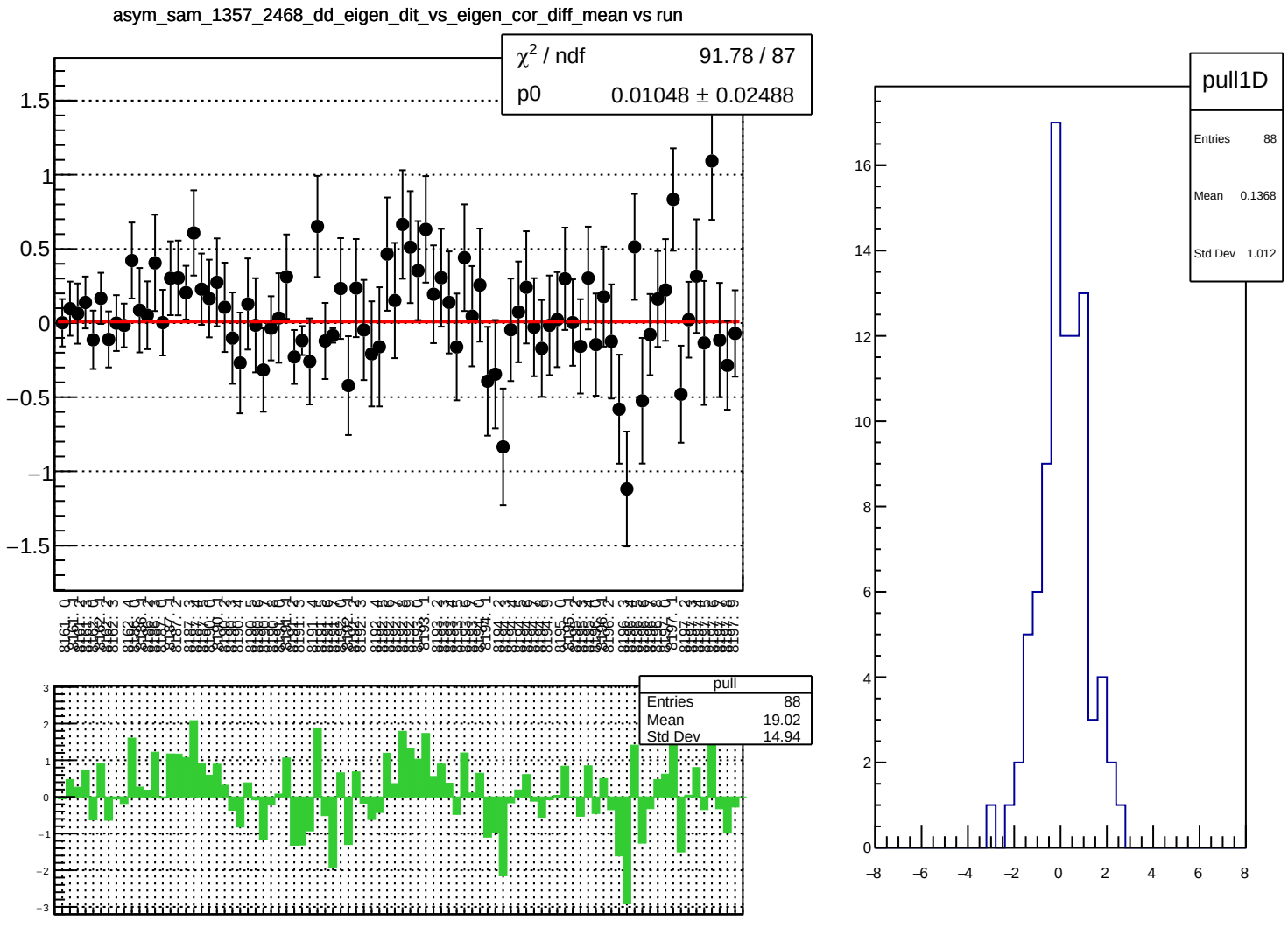

pull1D
Entries 88
Mean −0.01861
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

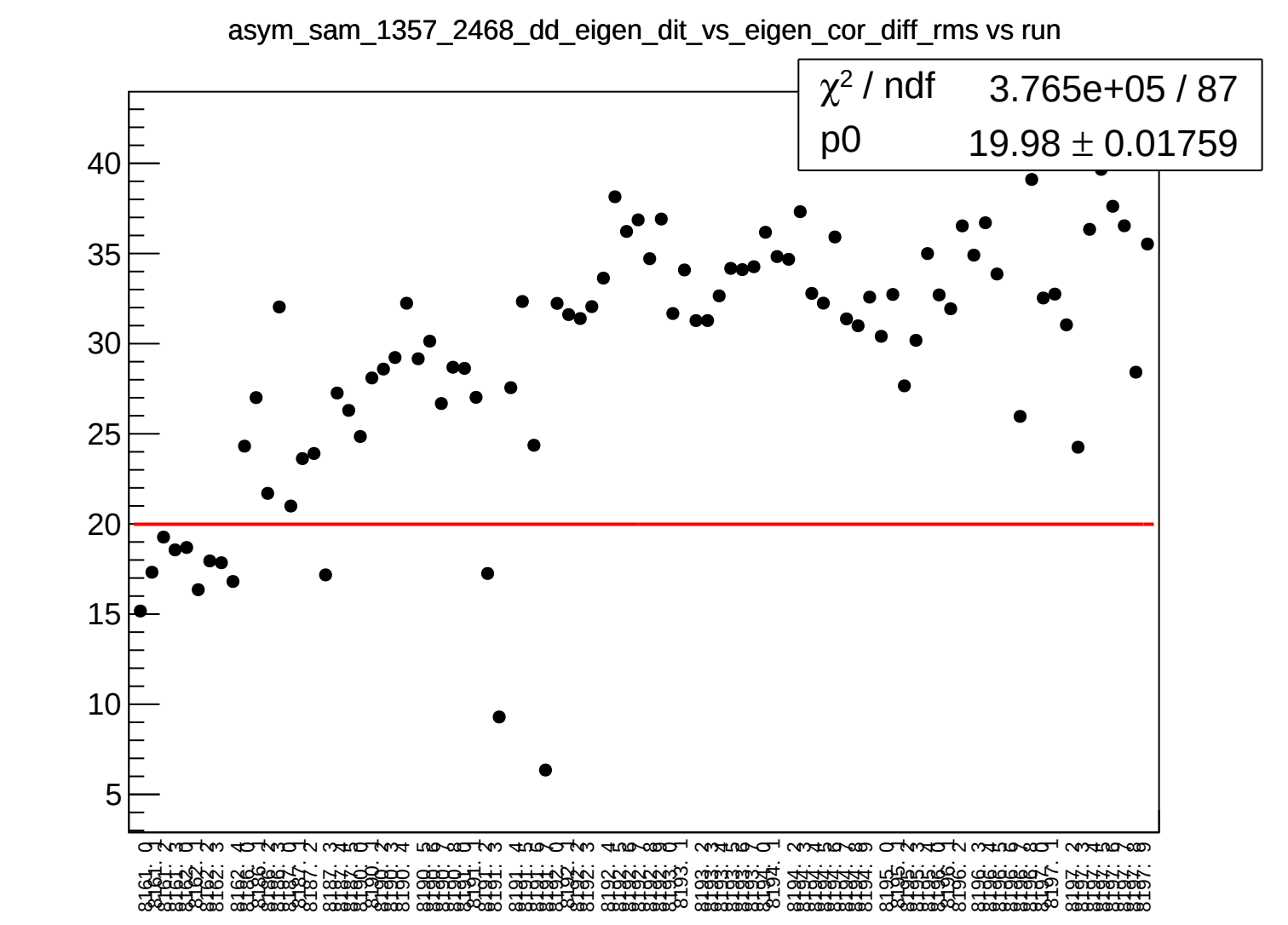

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.351e+04 / 87
p0 0.0007327 ± 5.786e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

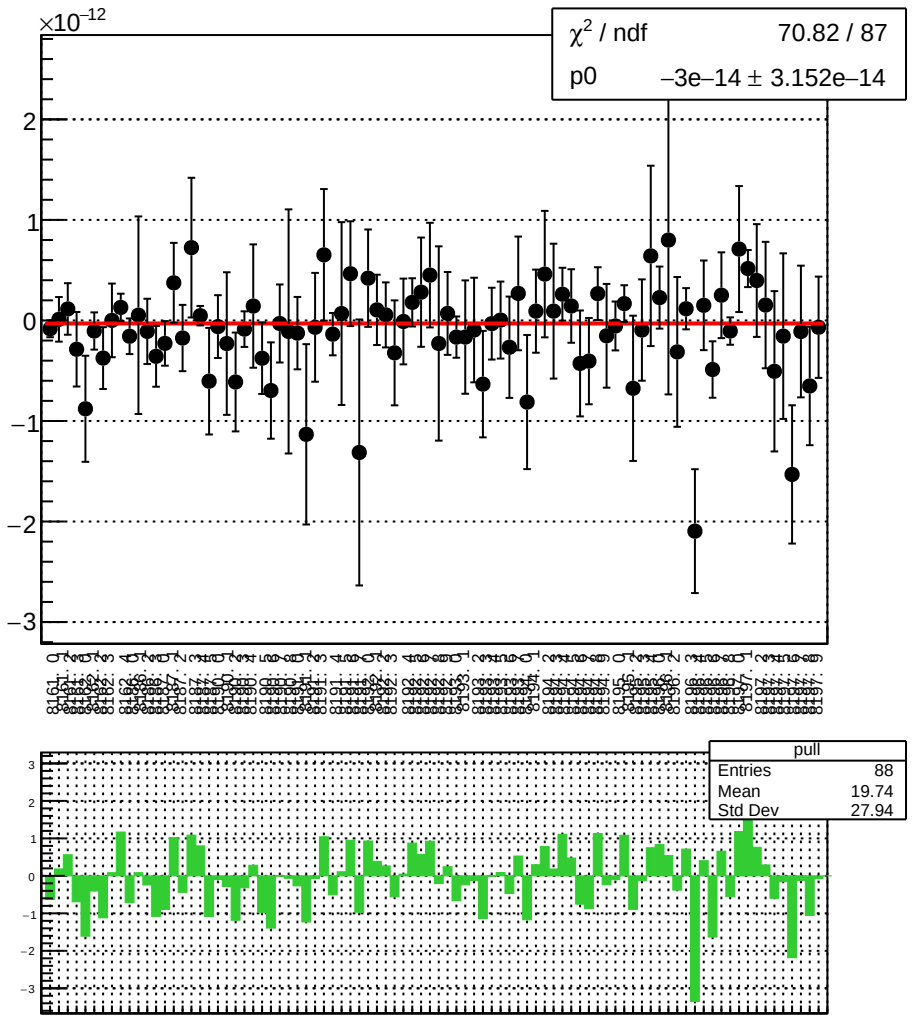

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.78 / 87
p0 0.01048 ± 0.02488
pull
Entries 88
Mean 19.02
Std Dev 14.94

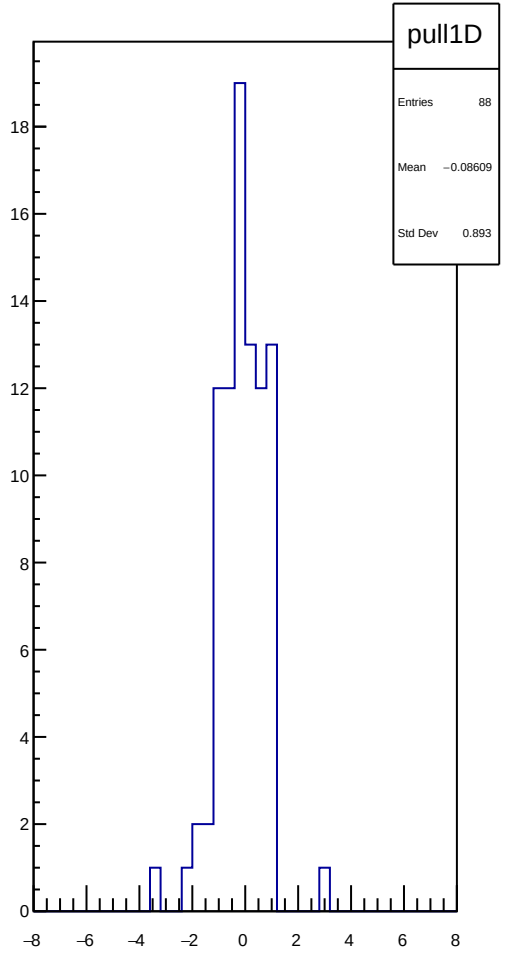

pull1D
Entries 88
Mean 0.1368
Std Dev 1.012

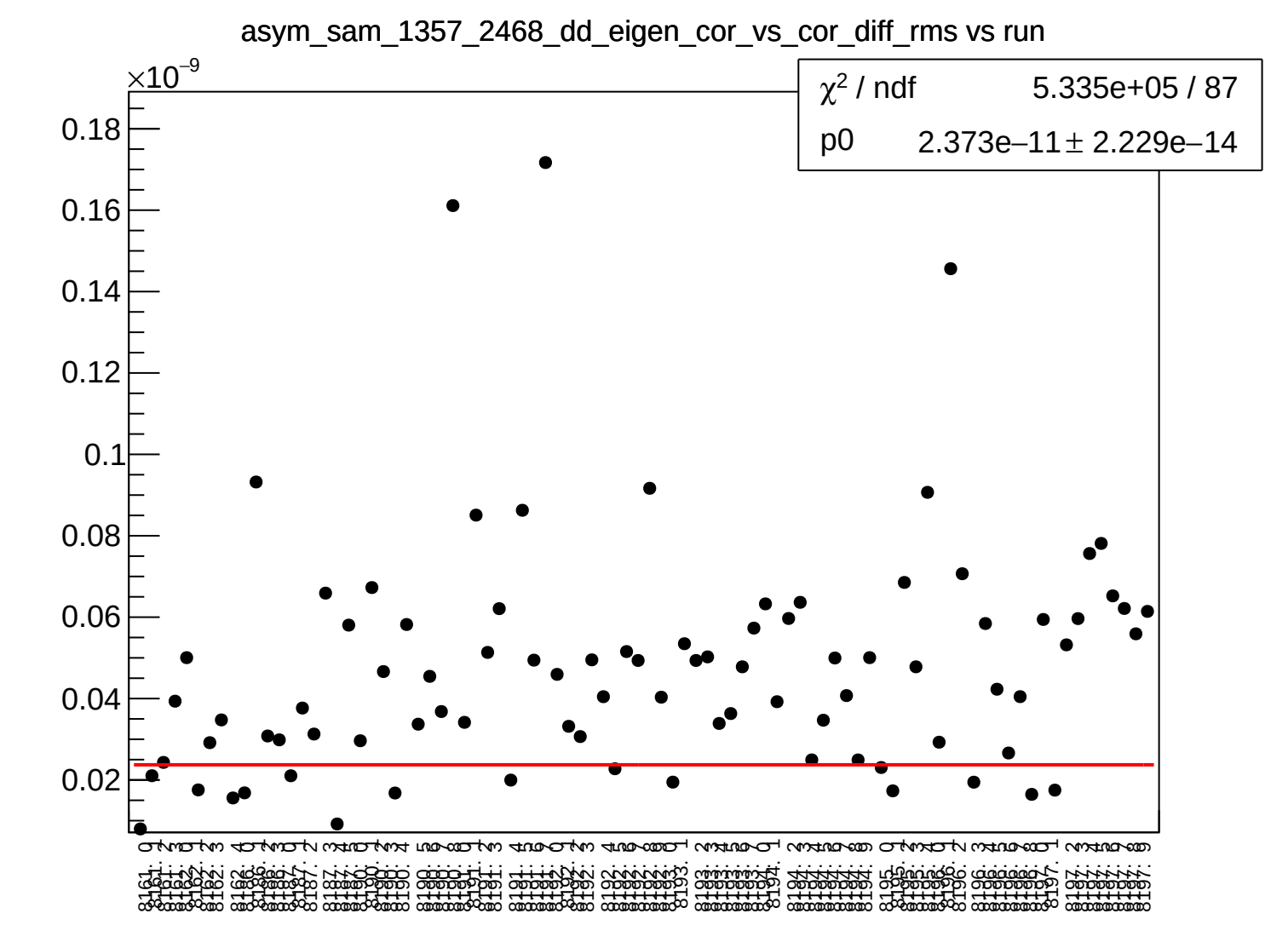

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.765e+05 / 87
p0 19.98 ± 0.01759
40
35
30
25
20
15
10
5

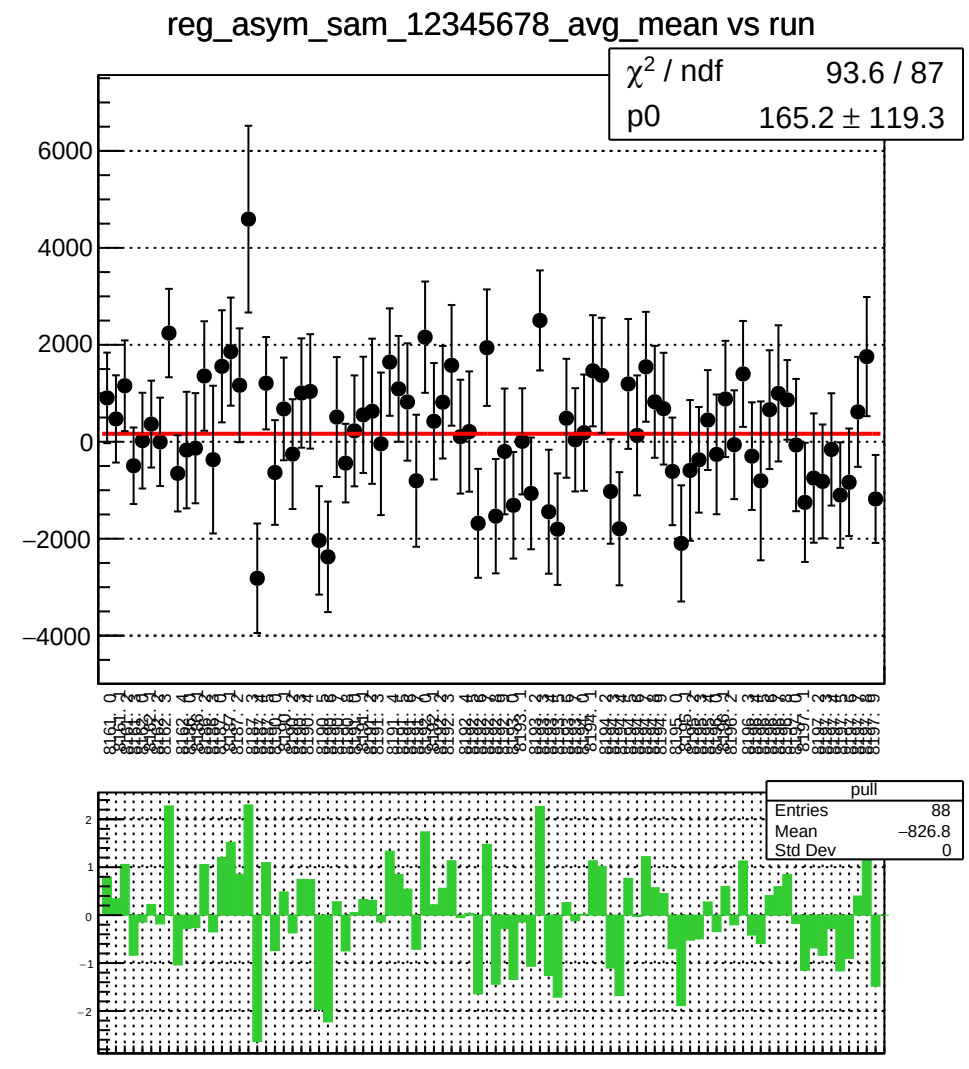

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.78 / 87
p0 0.01048 ± 0.02488
pull
Entries 88
Mean 19.02
Std Dev 14.94
pull1D
Entries 88
Mean 0.1368
Std Dev 1.012

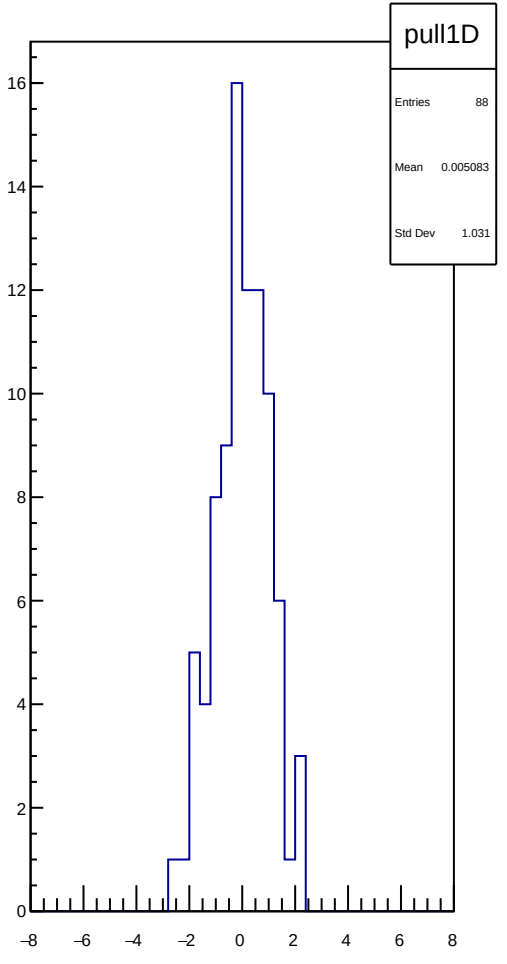

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.765e+05 / 87
p0 19.98 ± 0.01759
40
35
30
25
20
15
10
5

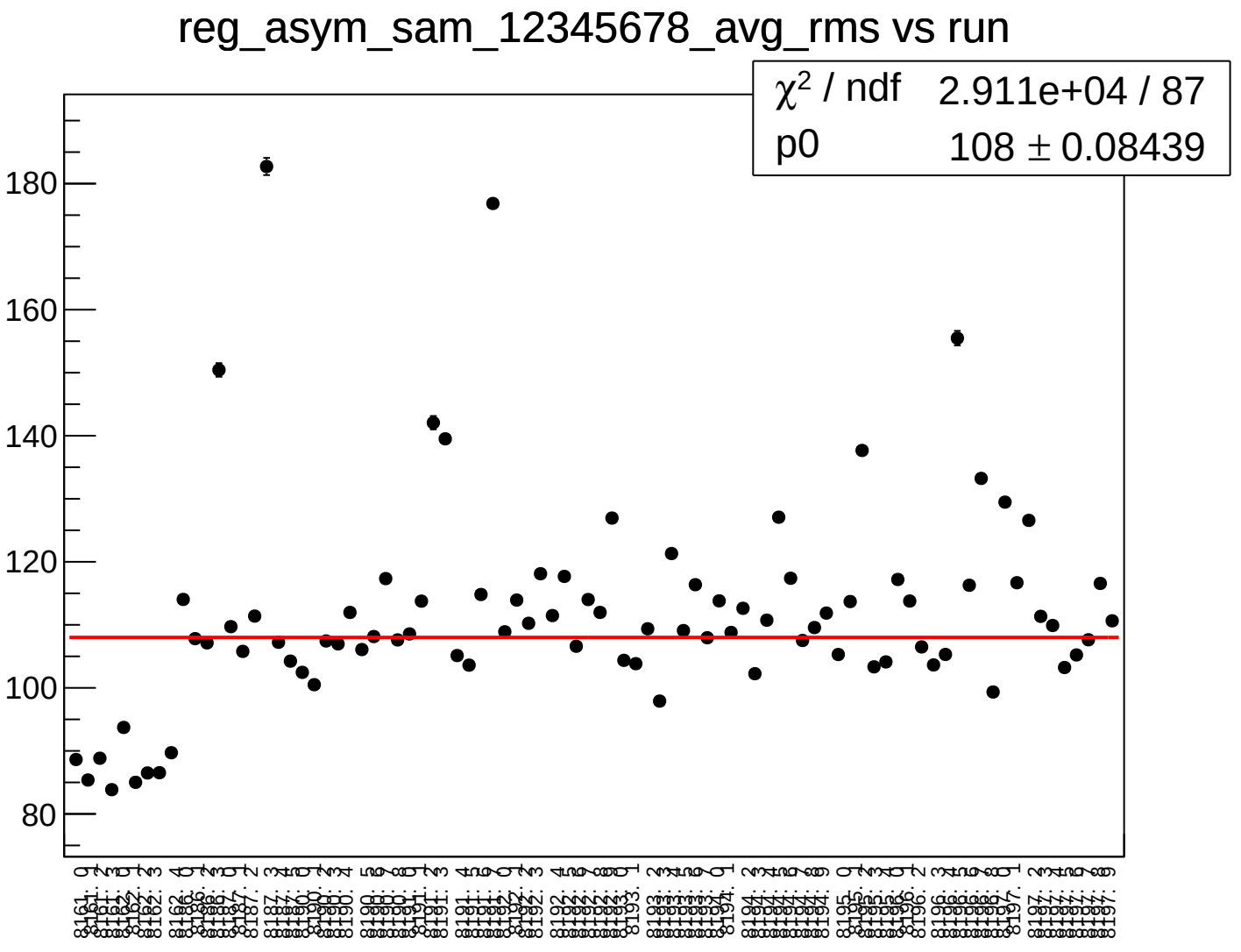

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.82 / 87
p0 −3e−14 ± 3.152e−14
pull
Entries 88
Mean 19.74
Std Dev 27.94

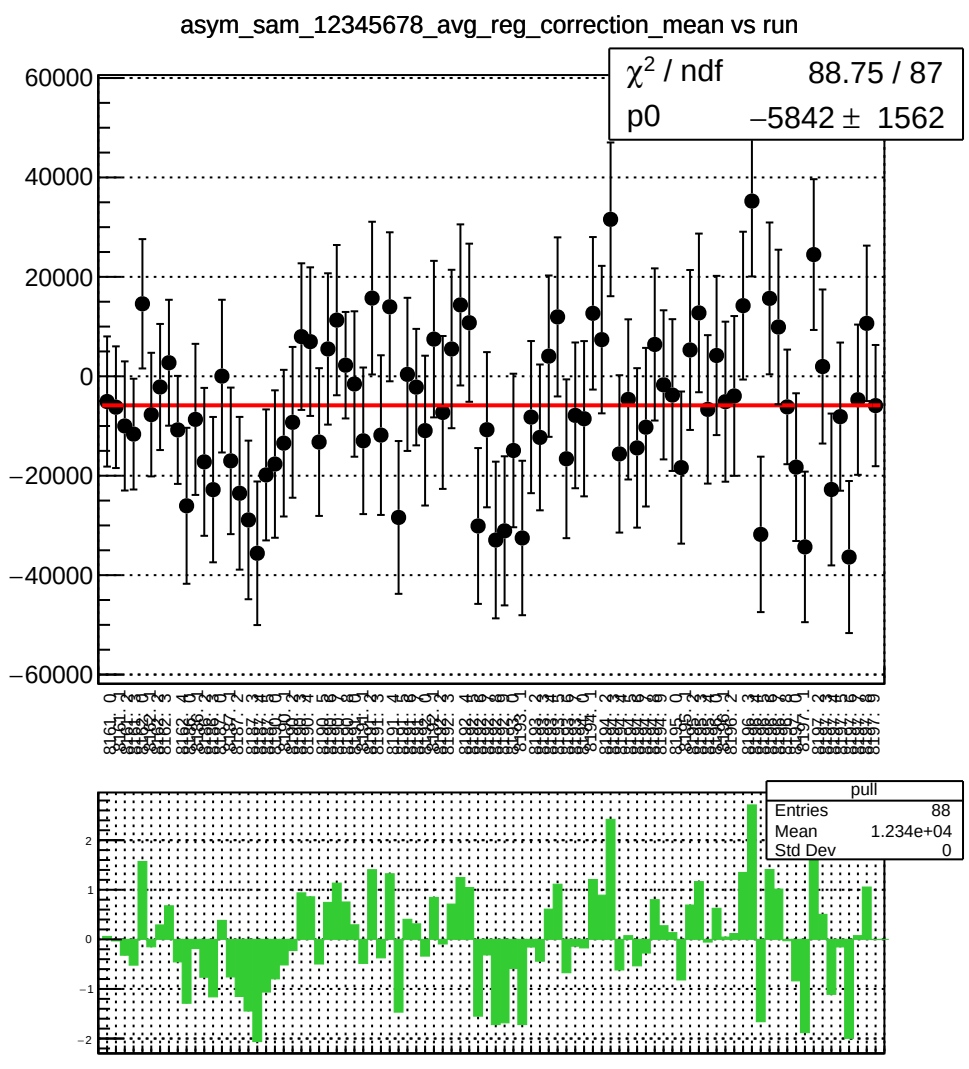

pull1D
Entries 88
Mean −0.08609
Std Dev 0.893

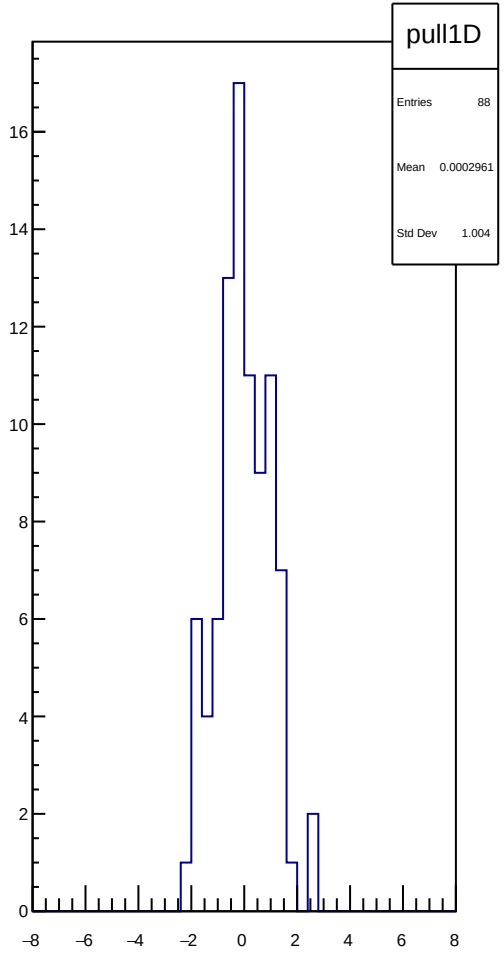

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.335e+05 / 87
p0 2.373e−11 ± 2.229e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

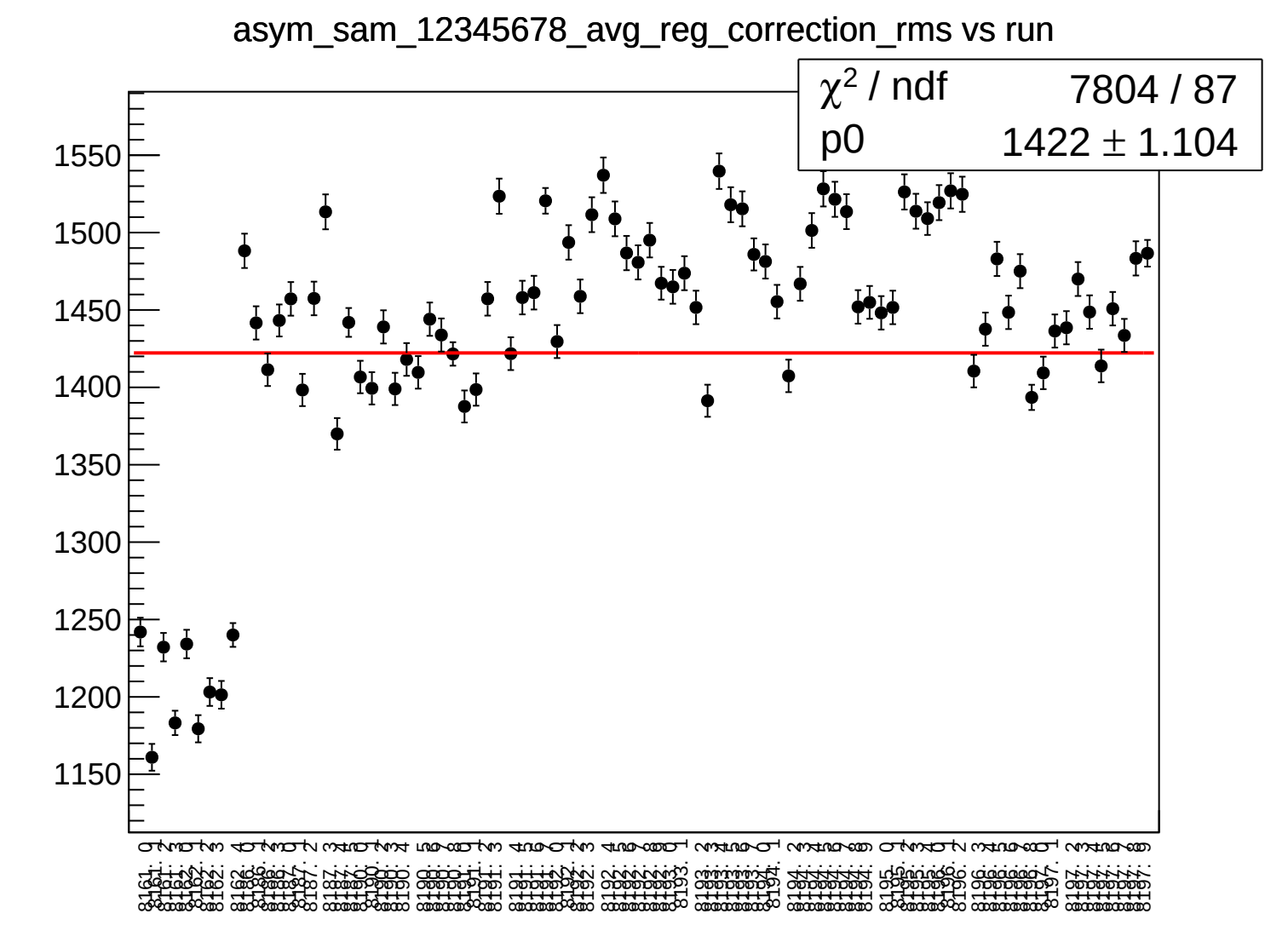

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 93.6 / 87
p0 165.2 ± 119.3
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −826.8
Std Dev 0
2
1
0
−1
−2

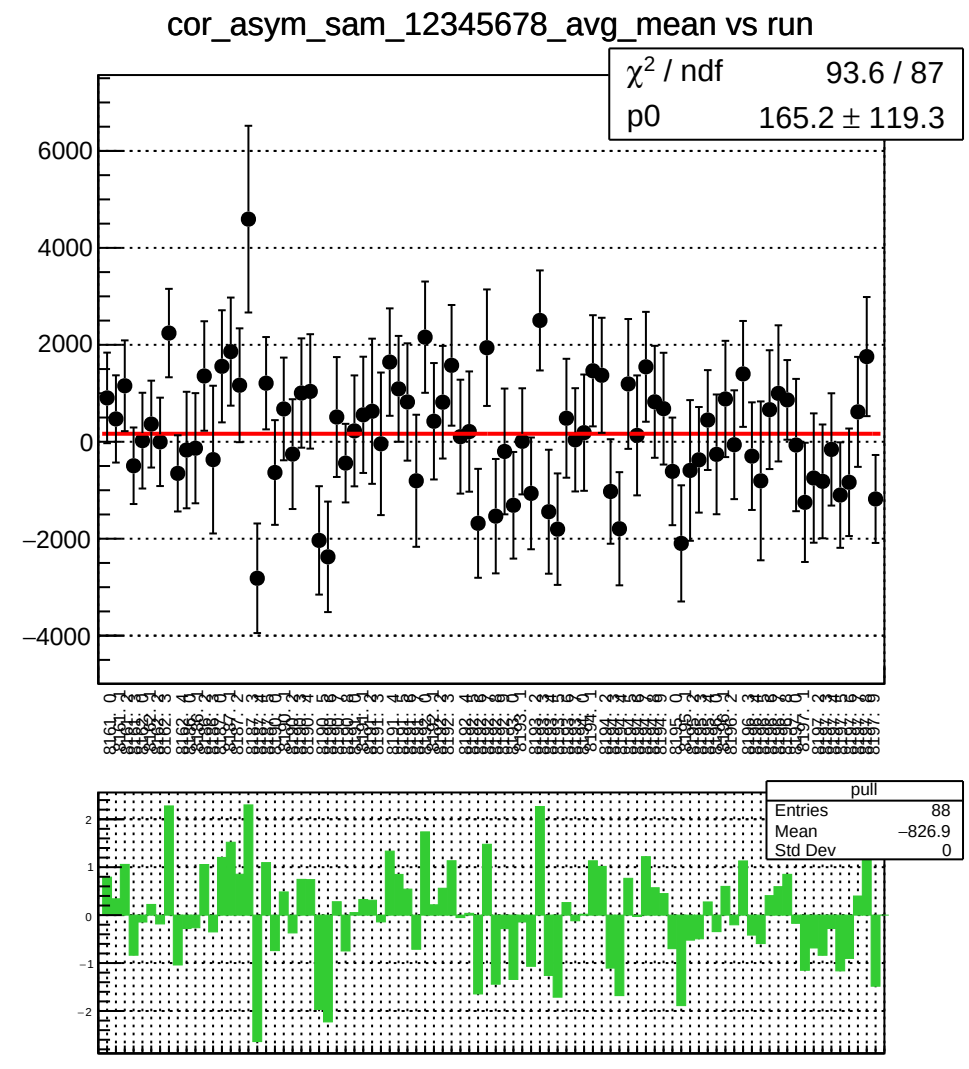

pull1D
Entries 88
Mean 0.005083
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

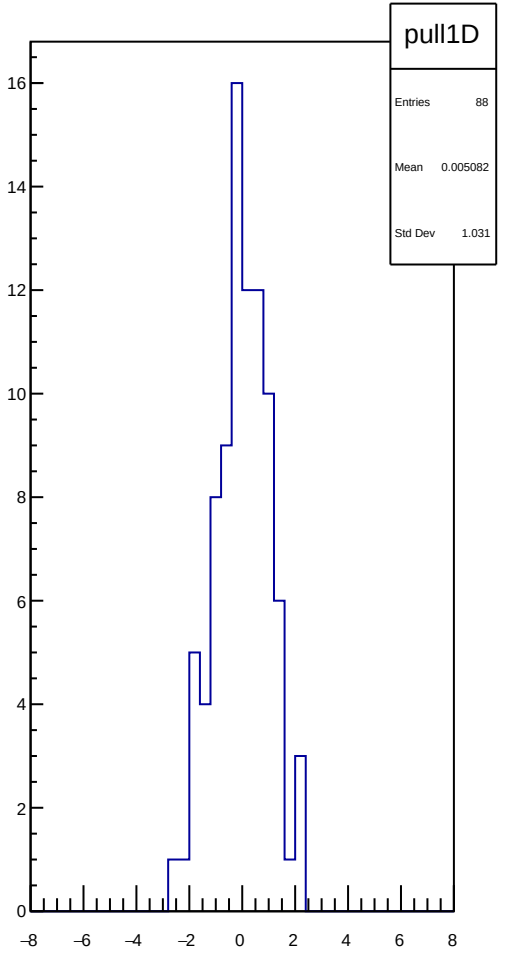

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.911e+04 / 87
p0 108 ± 0.08439
180
160
140
120
100
80

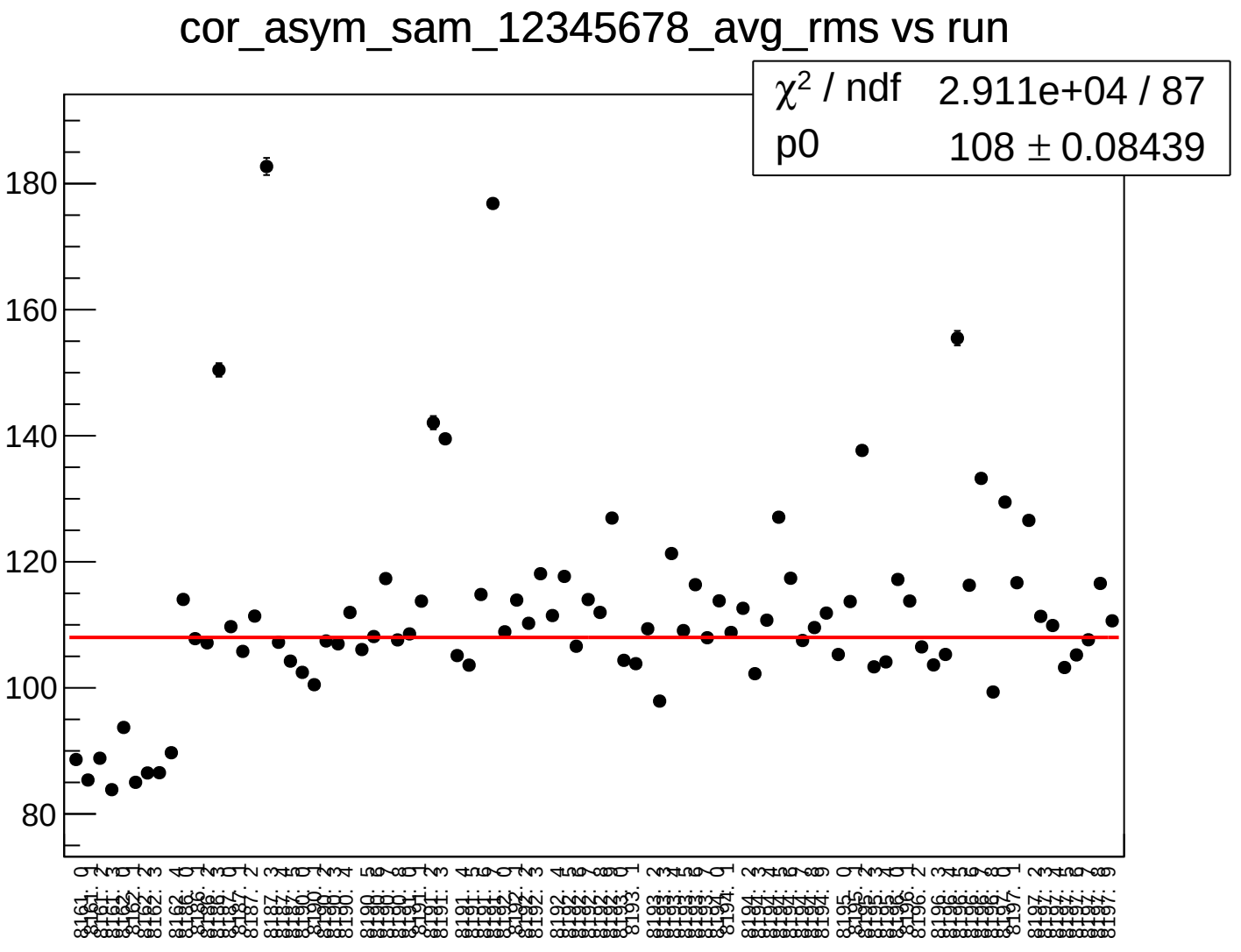

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 88.75 / 87
p0 −5842 ± 1562
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1.234e+04
Std Dev 0
2
1
0
−1
−2

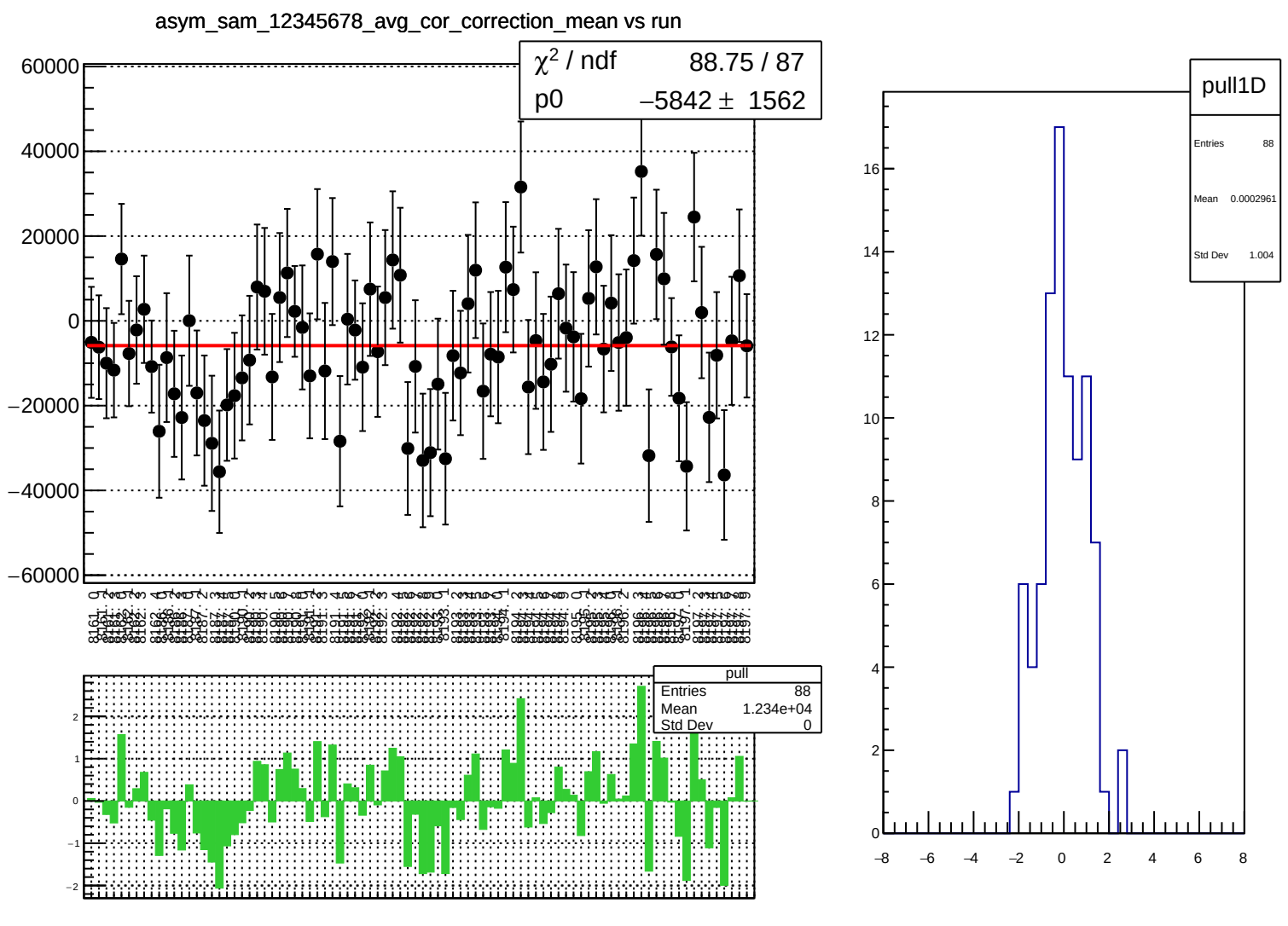

pull1D
Entries 88
Mean 0.0002961
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

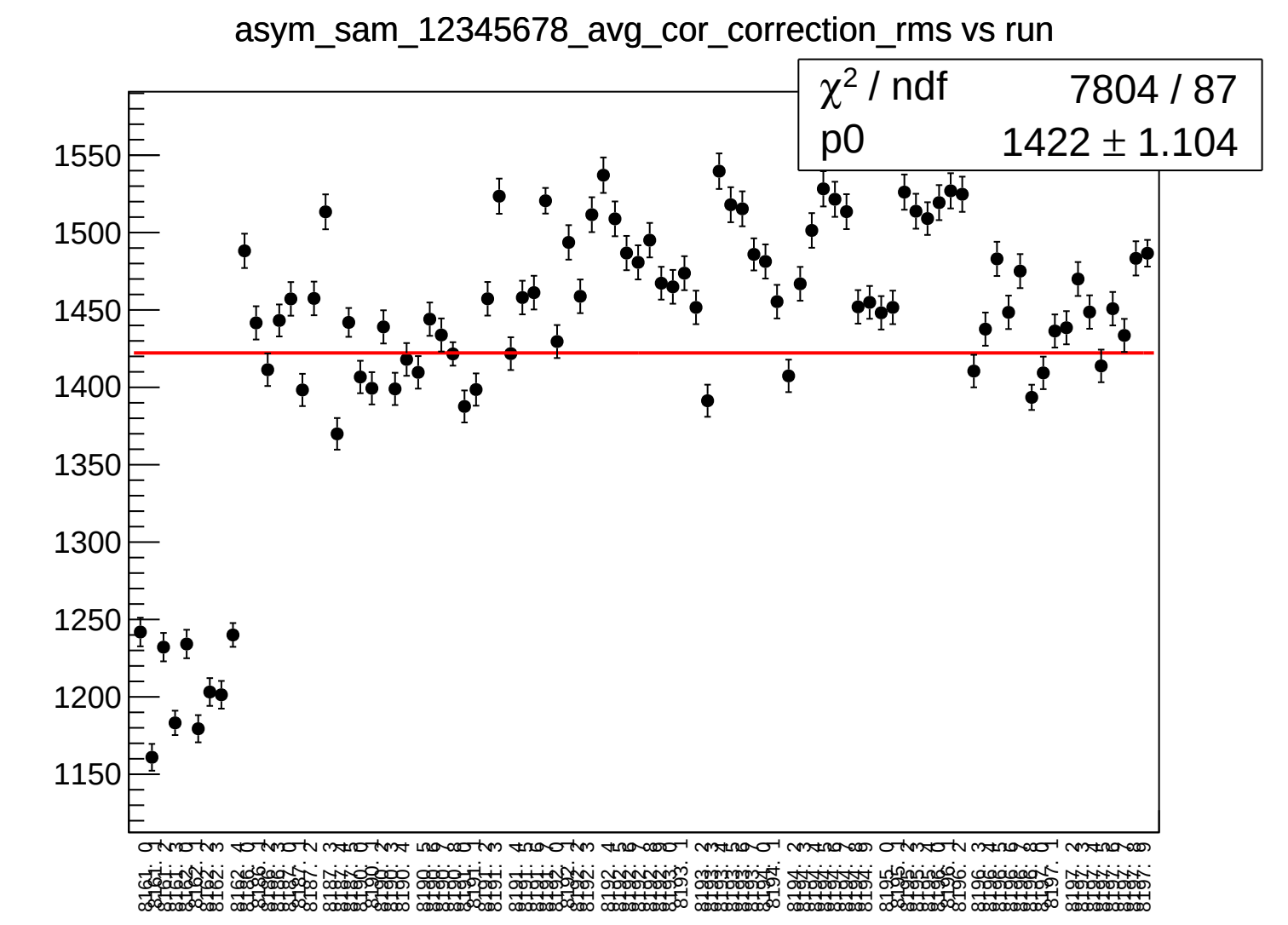

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 7804 / 87
p0 1422 ± 1.104
1550
1500
1450
1400
1350
1300
1250
1200
1150

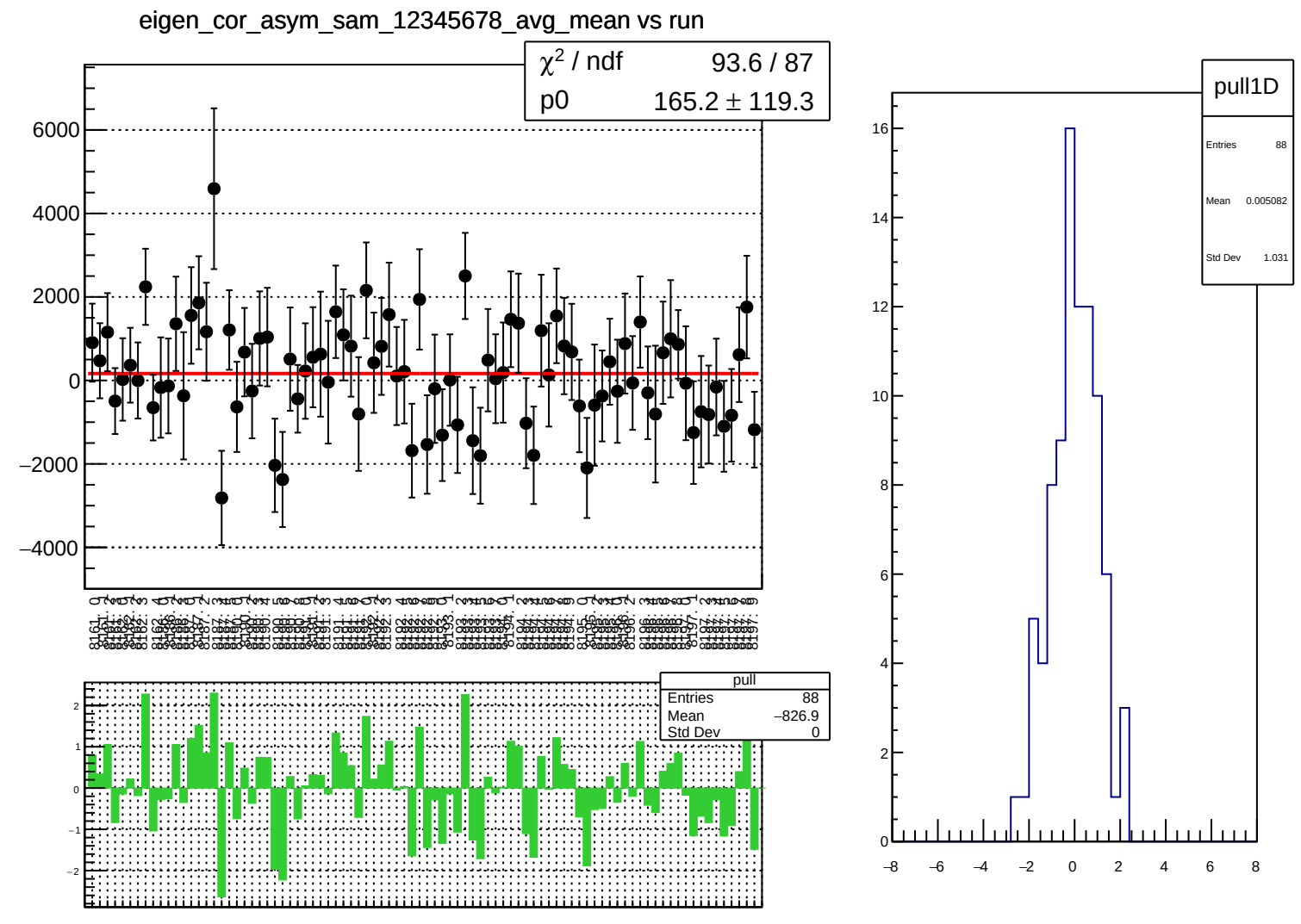

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 93.6 / 87
p0 165.2 ± 119.3
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −826.9
Std Dev 0
2
1
0
−1
−2

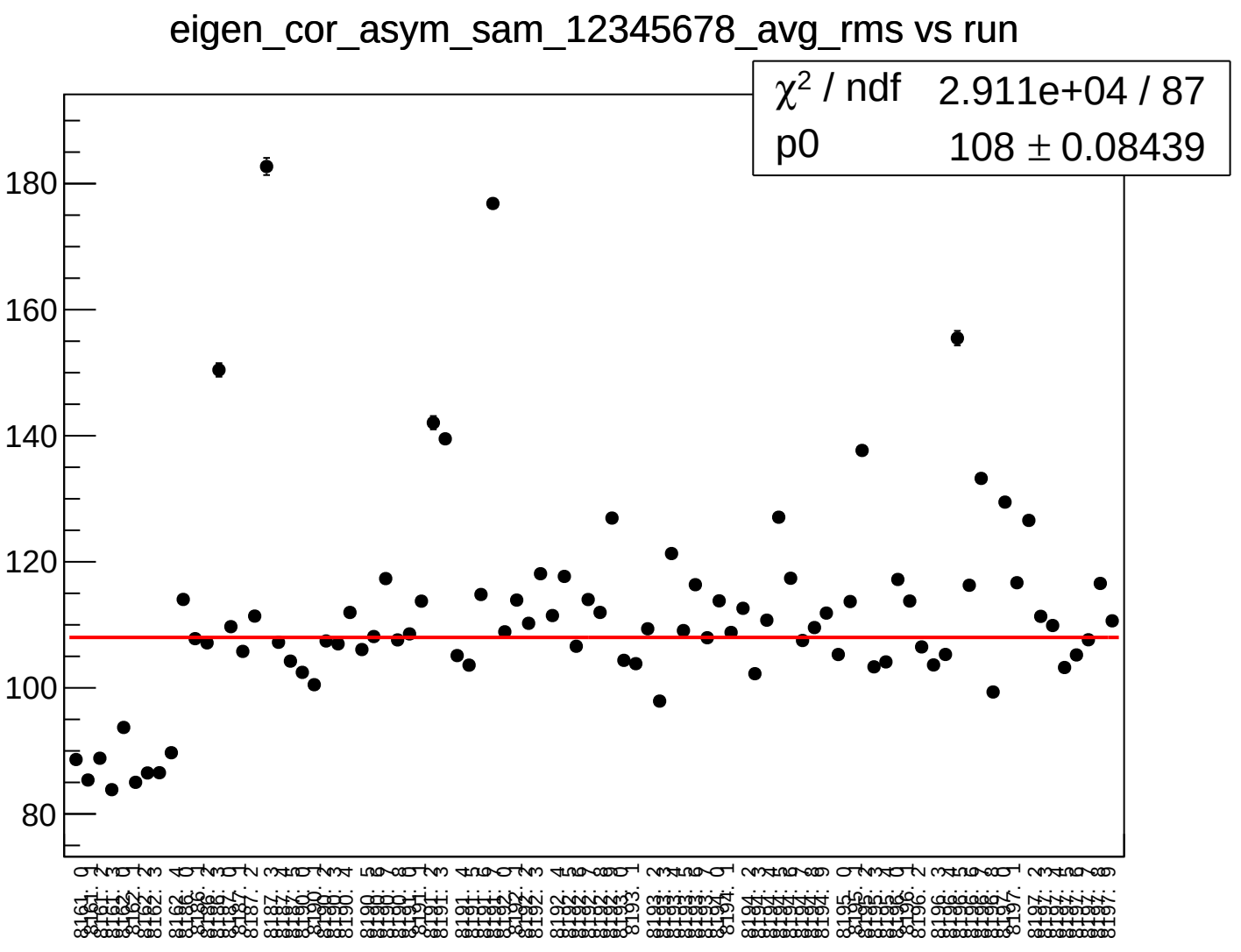

pull1D
Entries 88
Mean 0.005082
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

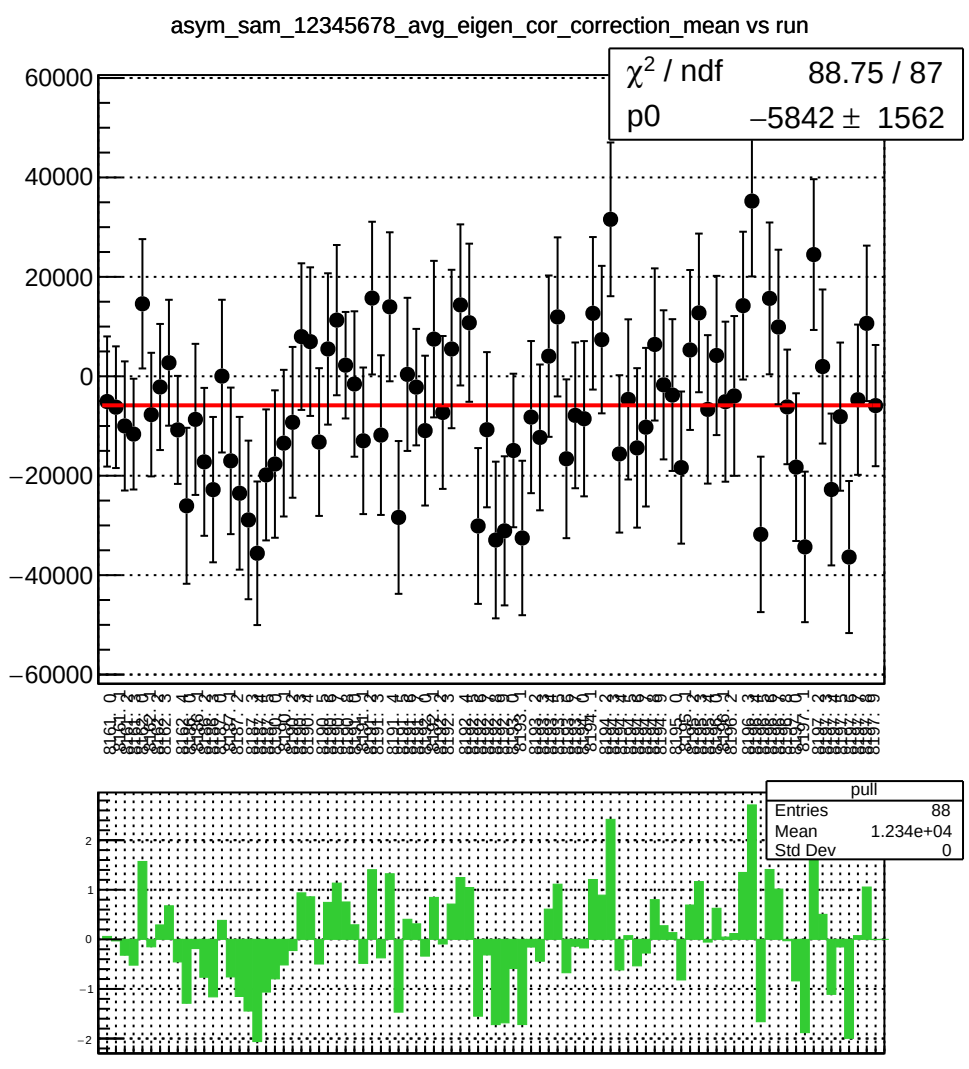

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.911e+04 / 87
p0 108 ± 0.08439
180
160
140
120
100
80

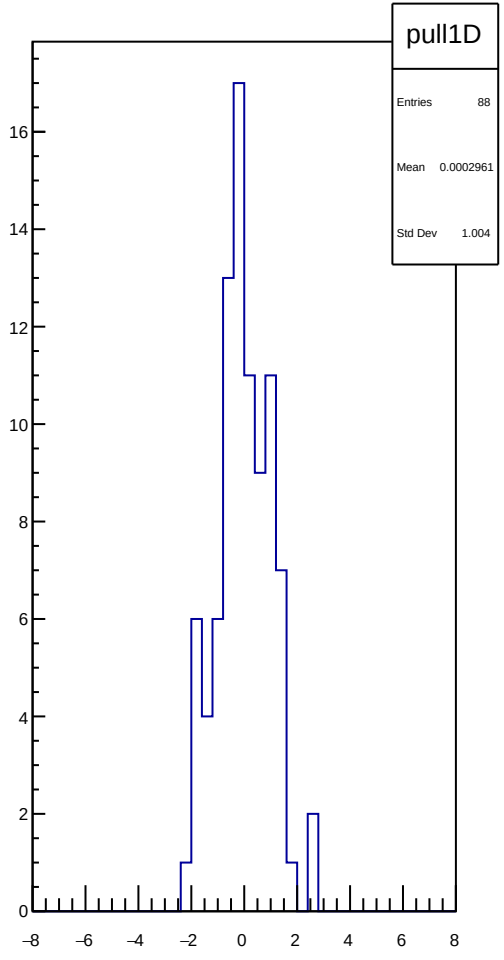

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 88.75 / 87
p0 −5842 ± 1562
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1.234e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0002961
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

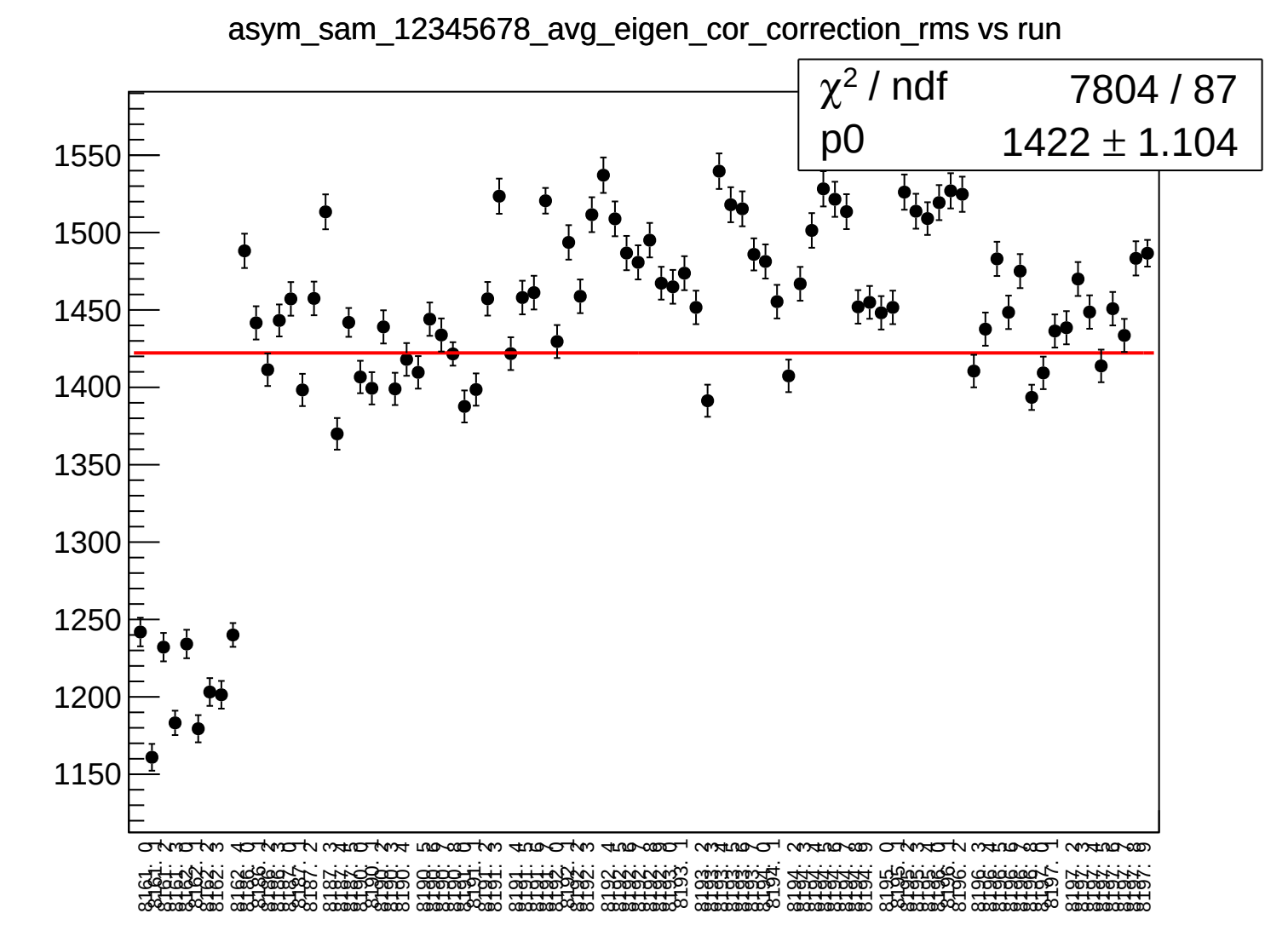

asym_sam_12345678_avg_cor_correction_rms vs run
χ^2 / ndf 7804 / 87
p0 1422 ± 1.104
1550
1500
1450
1400
1350
1300
1250
1200
1150

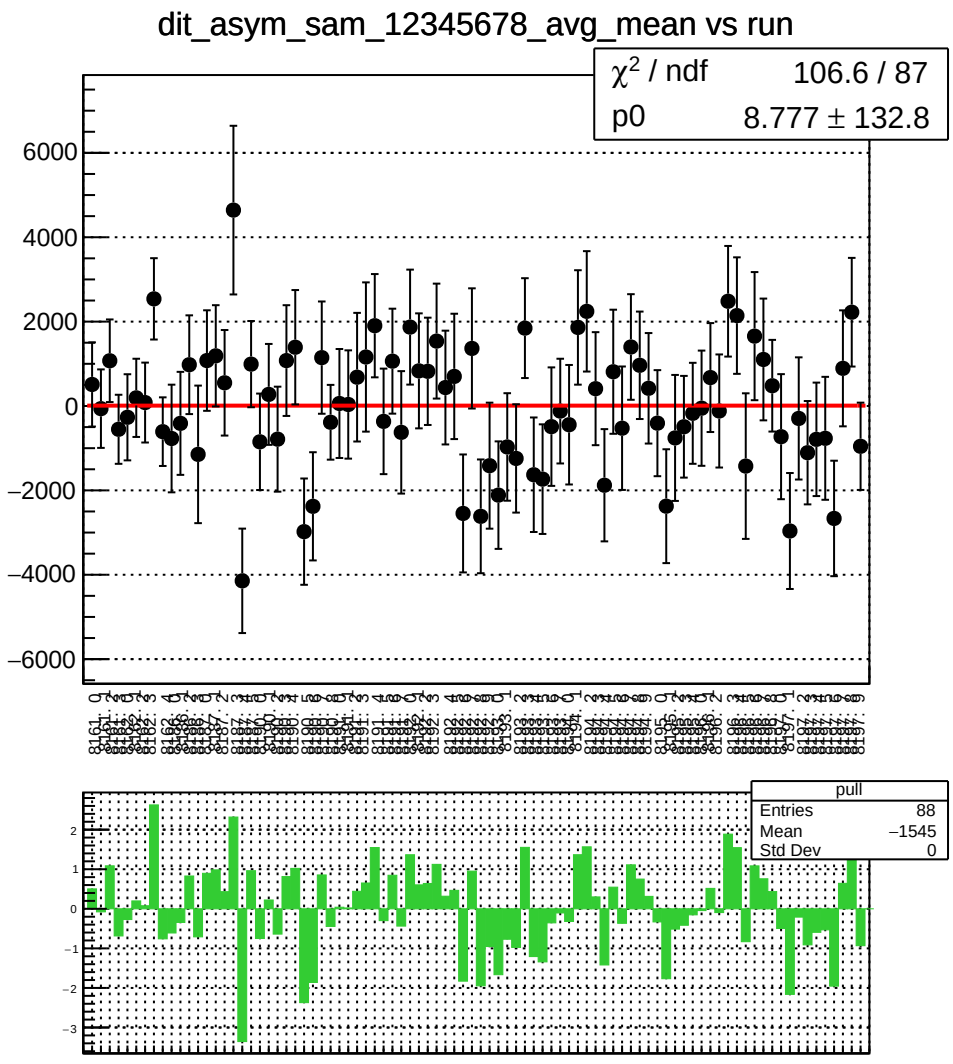

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 93.6 / 87
p0 165.2 ± 119.3
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −826.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005082
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

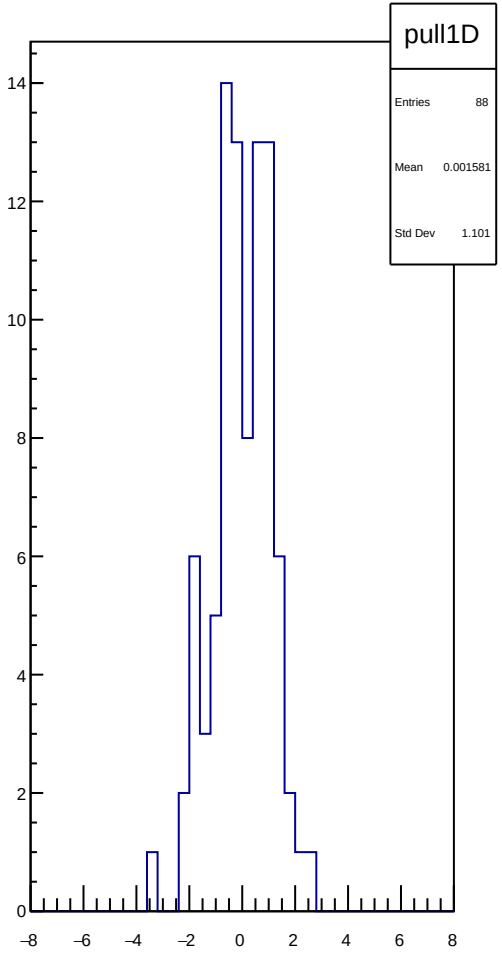

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.911e+04 / 87
p0 108 ± 0.08439
180
160
140
120
100
80

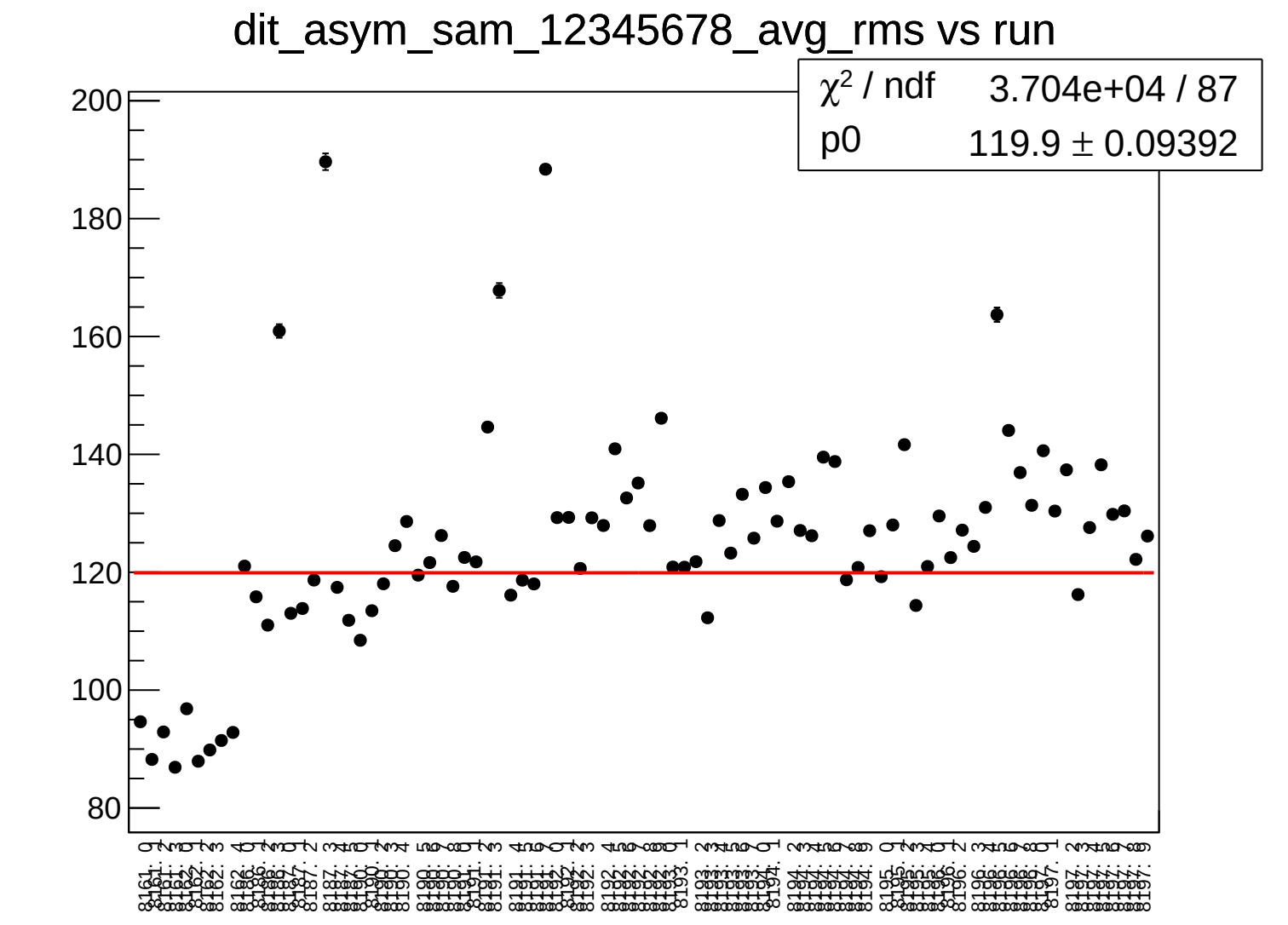

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.75 / 87
p0 −5842 ± 1562
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1.234e+04
Std Dev 0
2
1
0
−1
−2

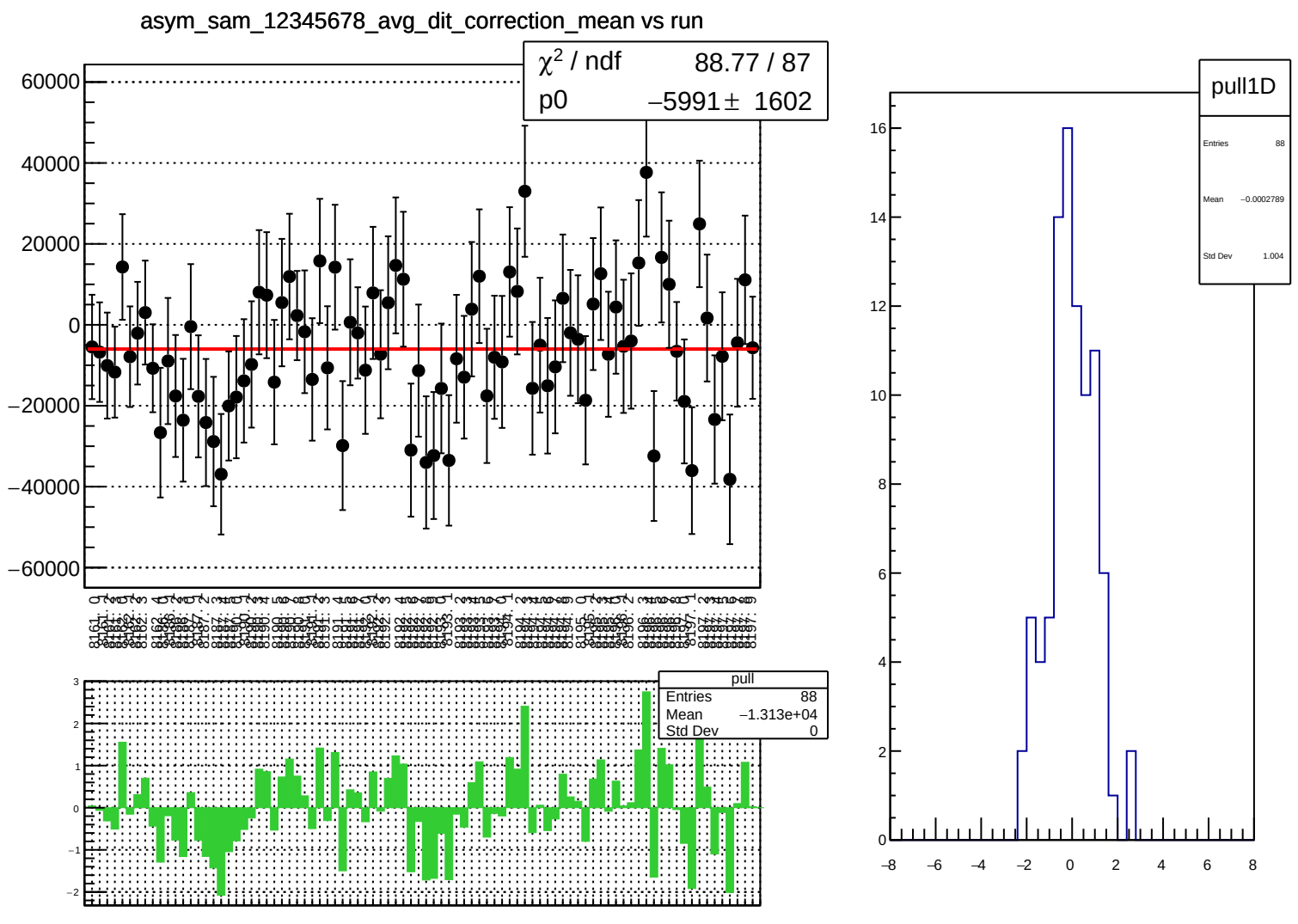

pull1D
Entries 88
Mean 0.0002961
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

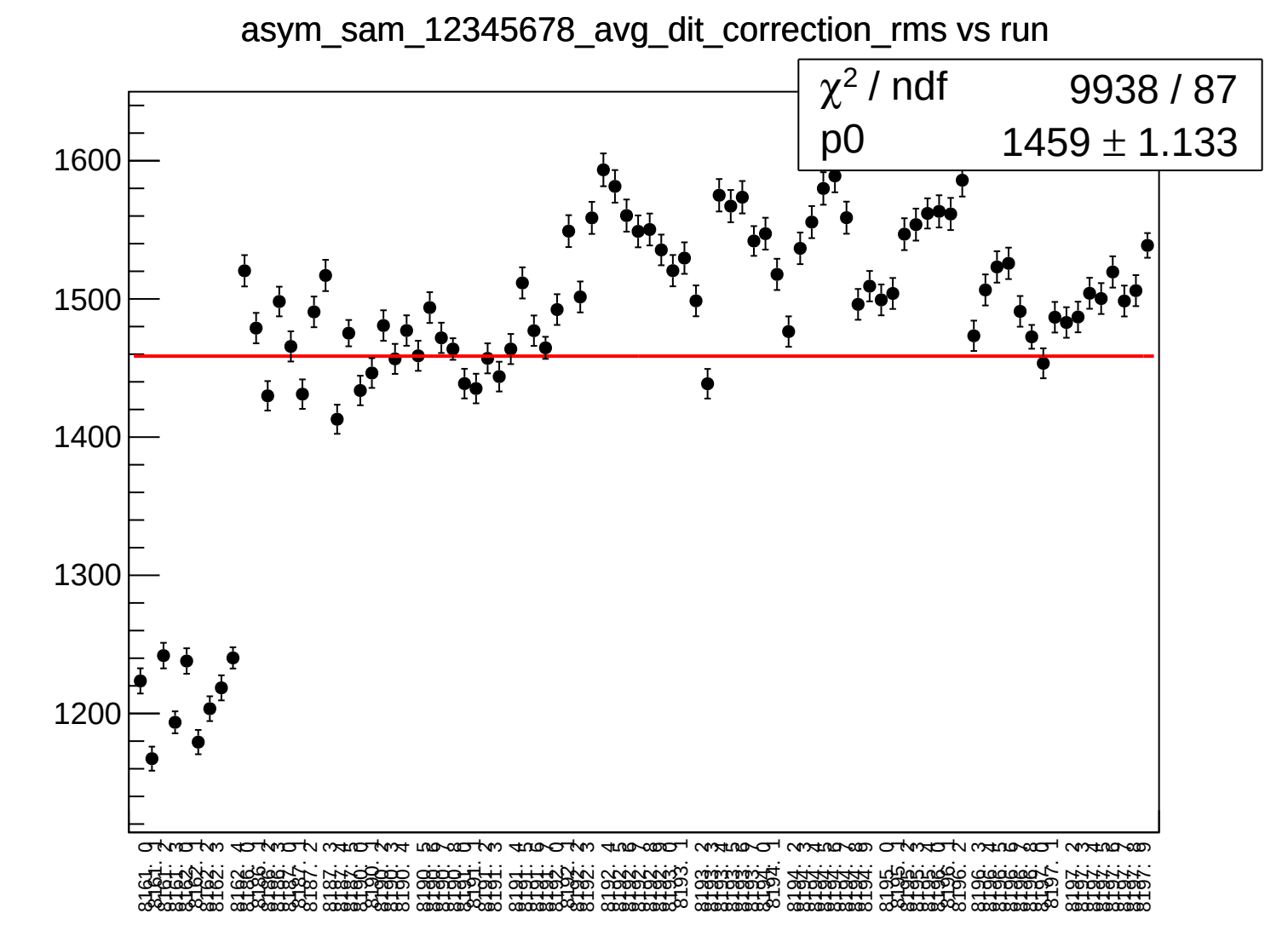

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 7804 / 87
p0 1422 ± 1.104
1550
1500
1450
1400
1350
1300
1250
1200
1150

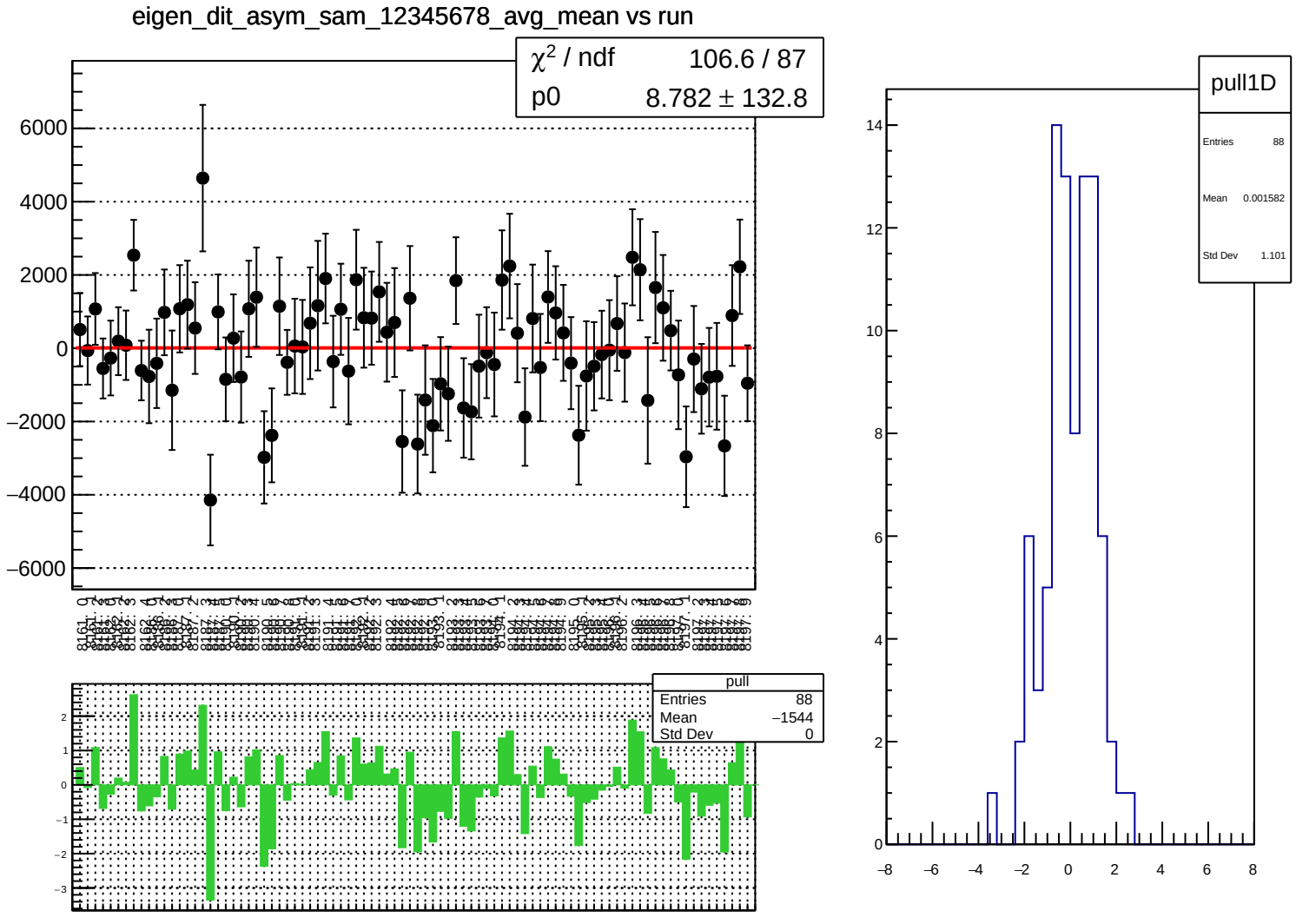

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 106.6 / 87
p0 8.777 ± 132.8
pull
Entries 88
Mean −1545
Std Dev 0

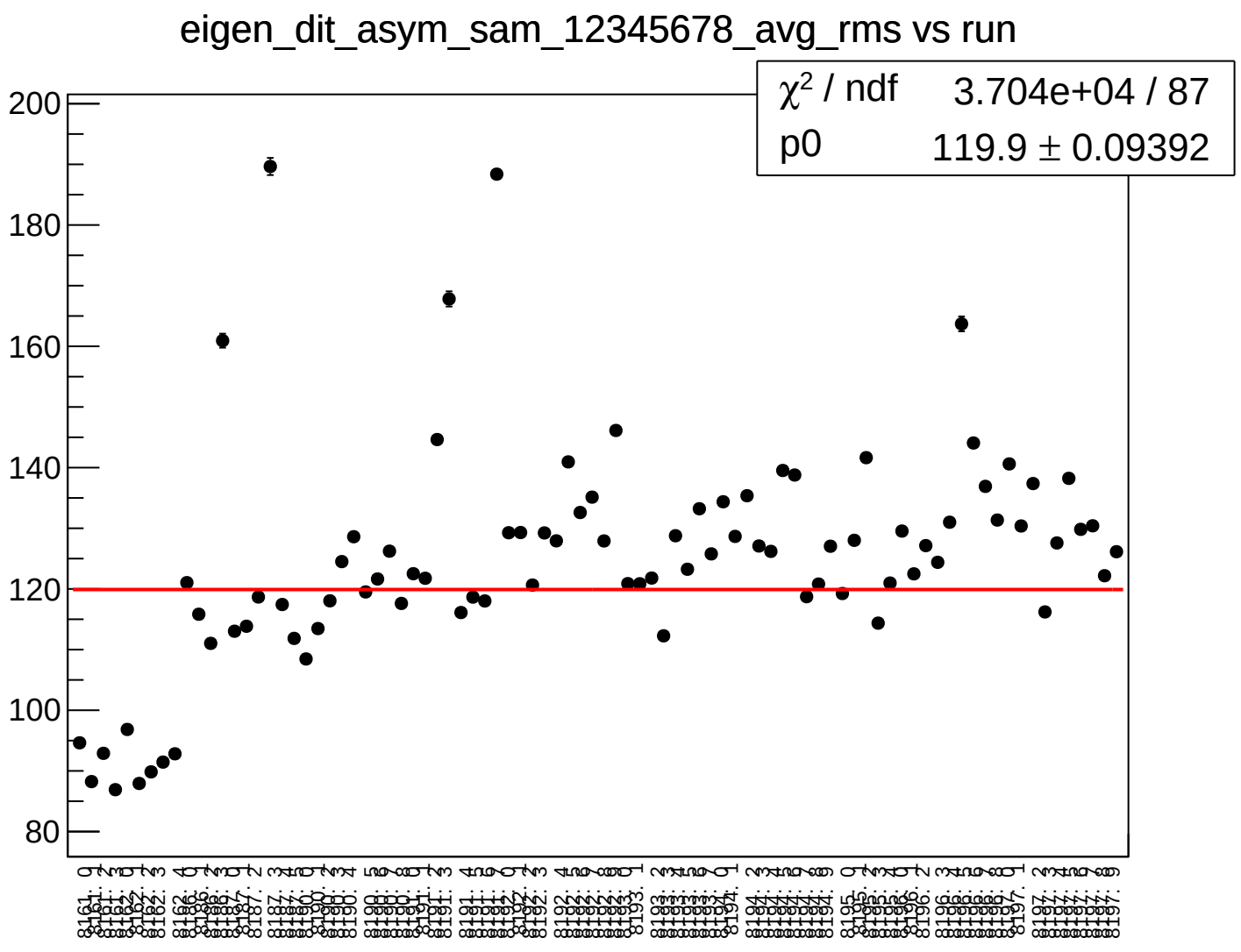

pull1D
Entries 88
Mean 0.001581
Std Dev 1.101

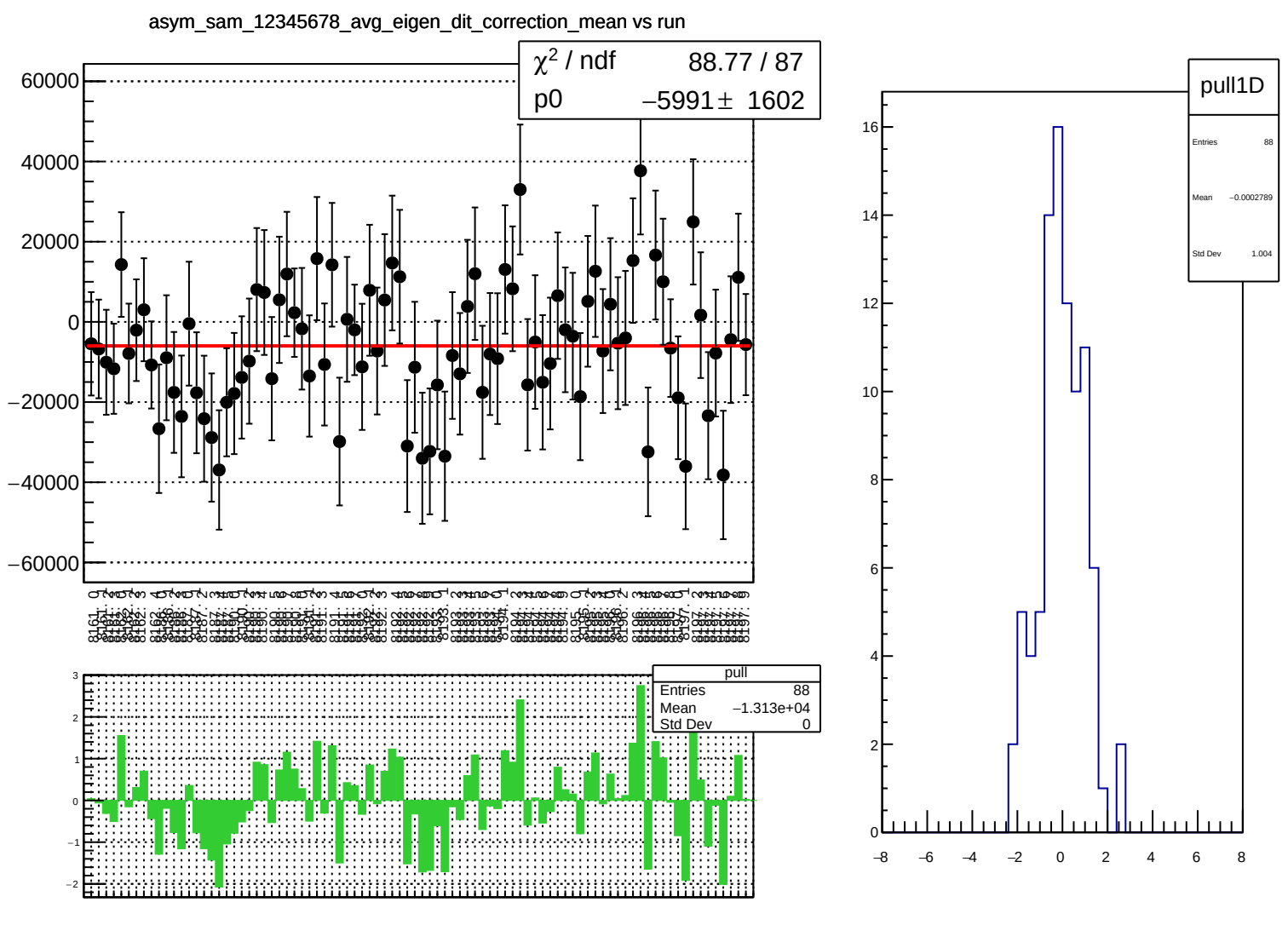

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.704e+04 / 87
p0 119.9 ± 0.09392
200
180
160
140
120
100
80

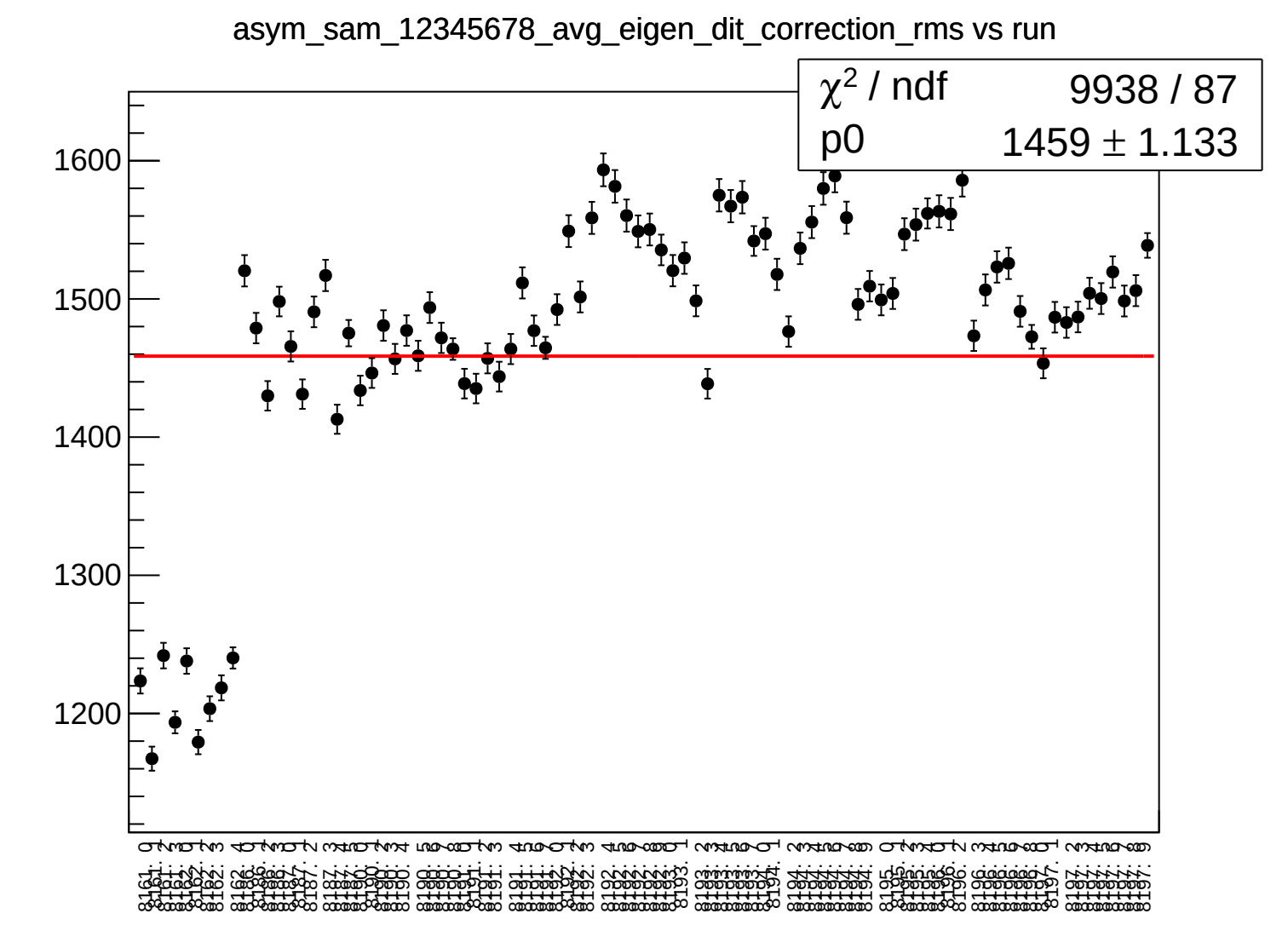

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 88.77 / 87
p0 −5991 ± 1602
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1.313e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0002789
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

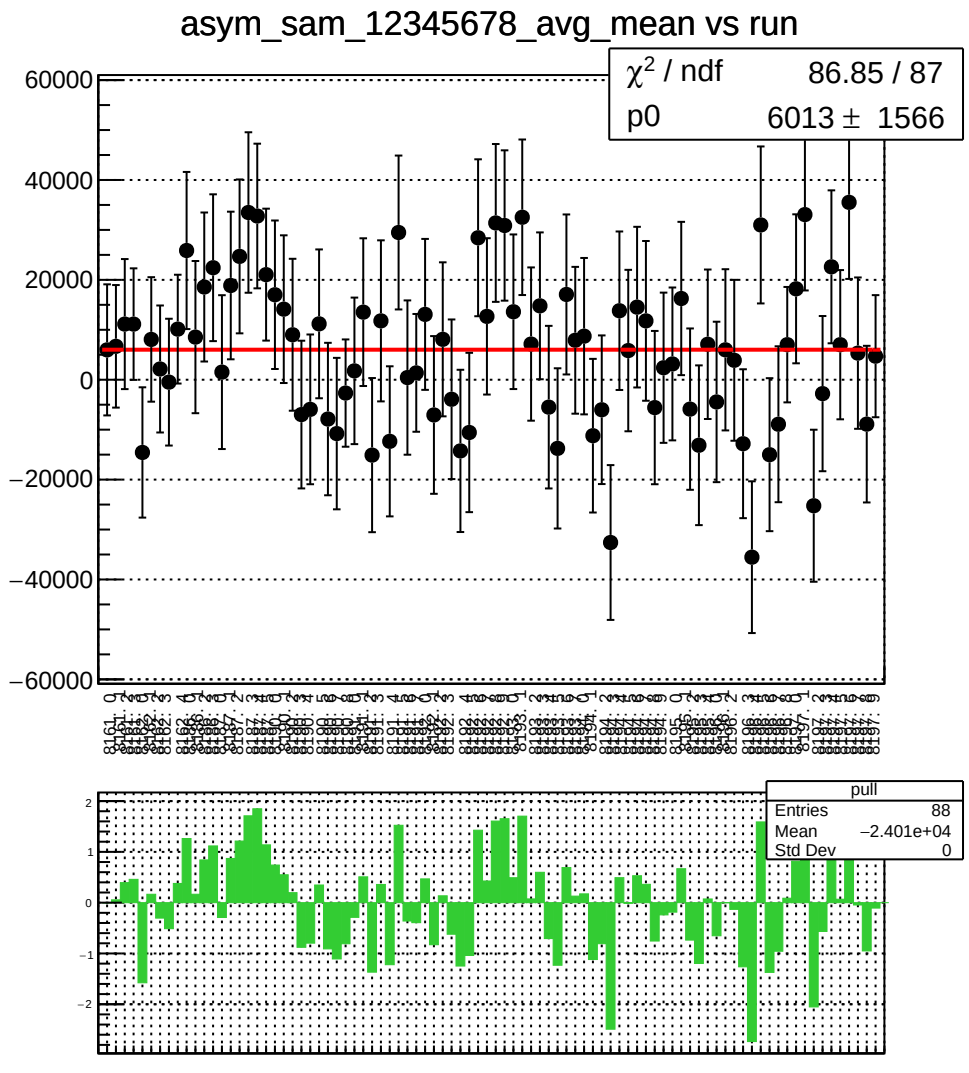

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 9938 / 87
p0 1459 ± 1.133
1600
1500
1400
1300
1200

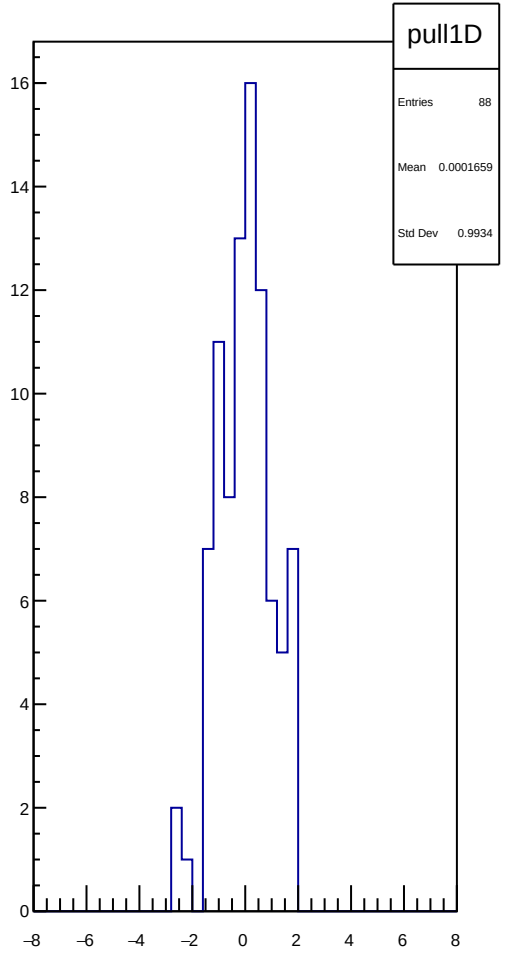

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 106.6 / 87
p0 8.782 ± 132.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −1544
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.001582
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

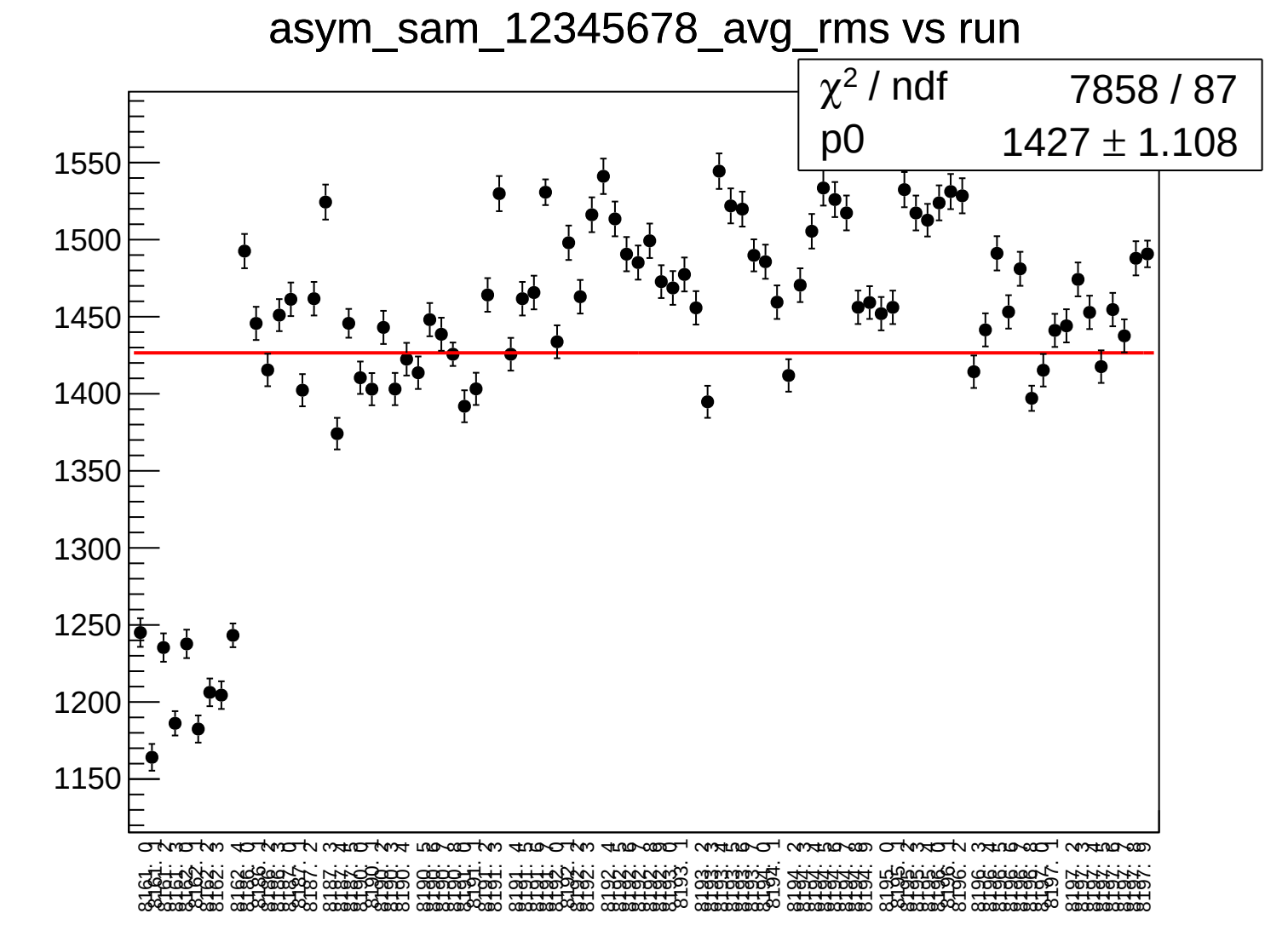

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.704e+04 / 87
p0 119.9 ± 0.09392
200
180
160
140
120
100
80

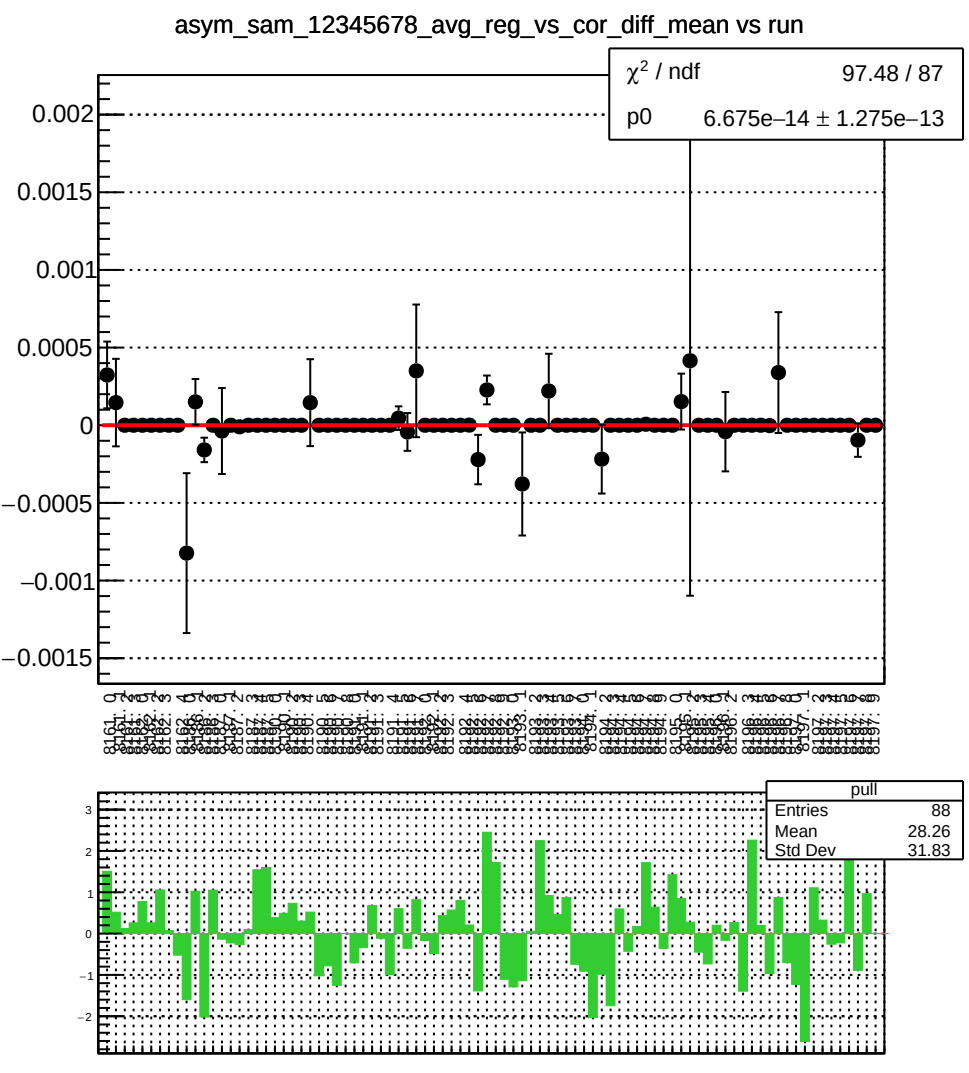

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.77 / 87
p0 −5991 ± 1602
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1.313e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0002789
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

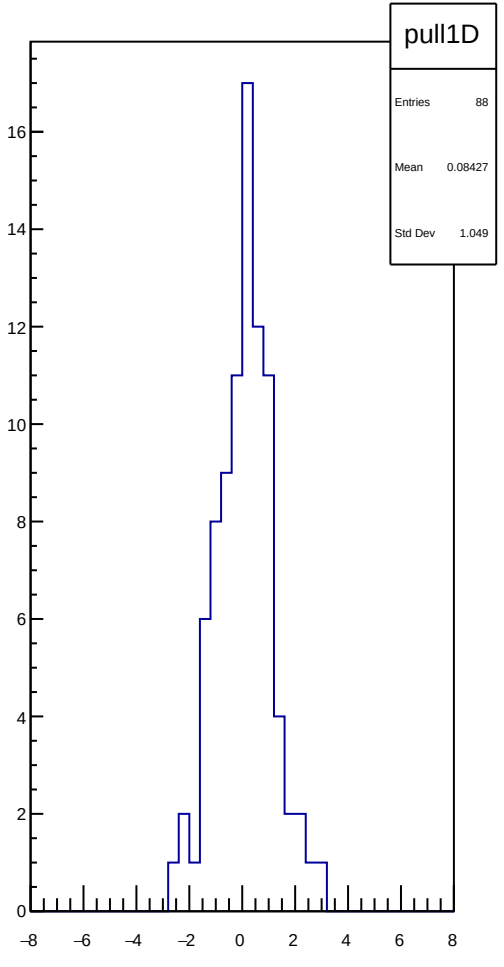

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 9938 / 87
p0 1459 ± 1.133
1600
1500
1400
1300
1200

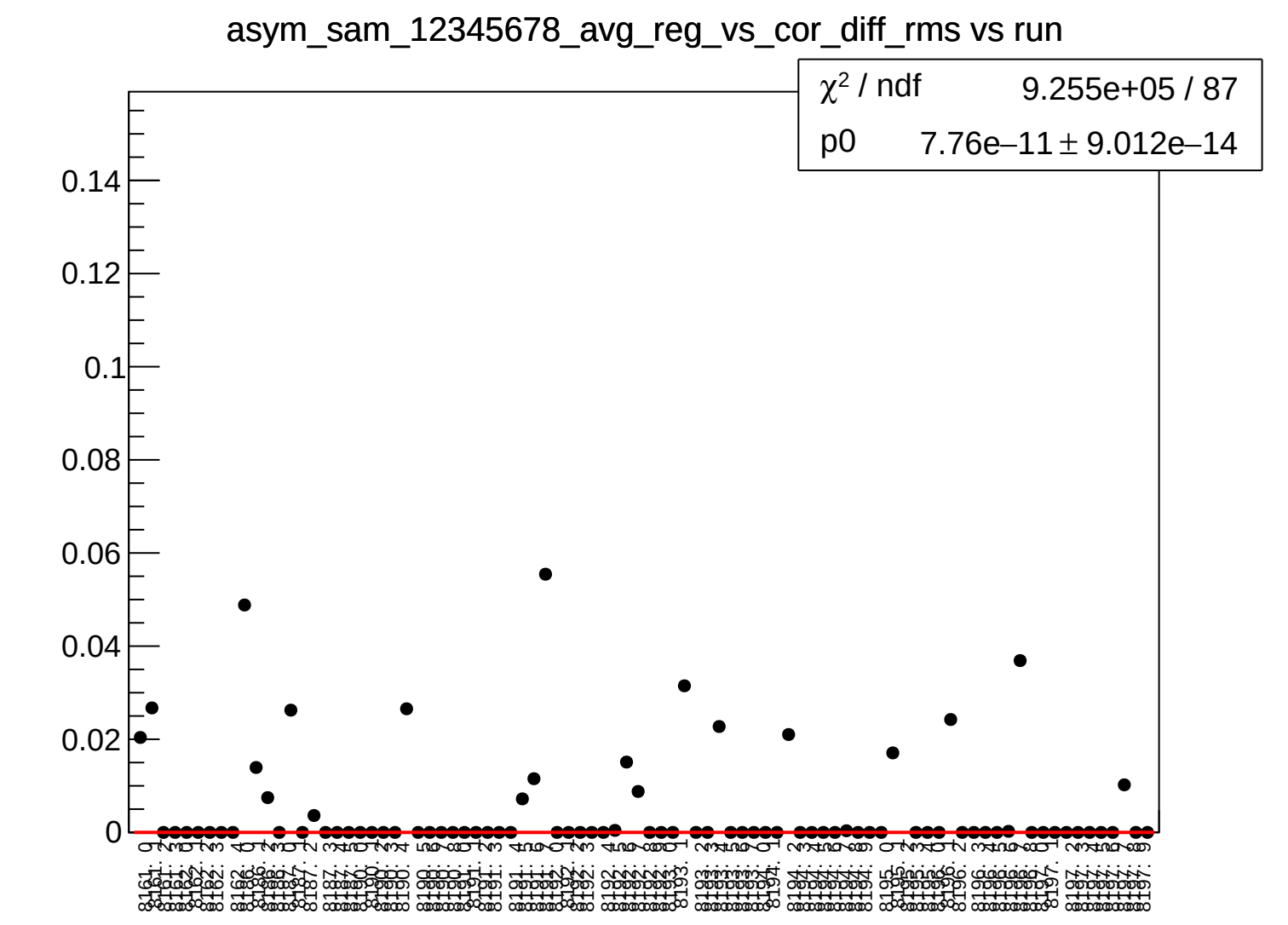

asym_sam_12345678_avg_mean vs run
χ² / ndf 86.85 / 87
p0 6013 ± 1566
pull
Entries 88
Mean −2.401e+04
Std Dev 0

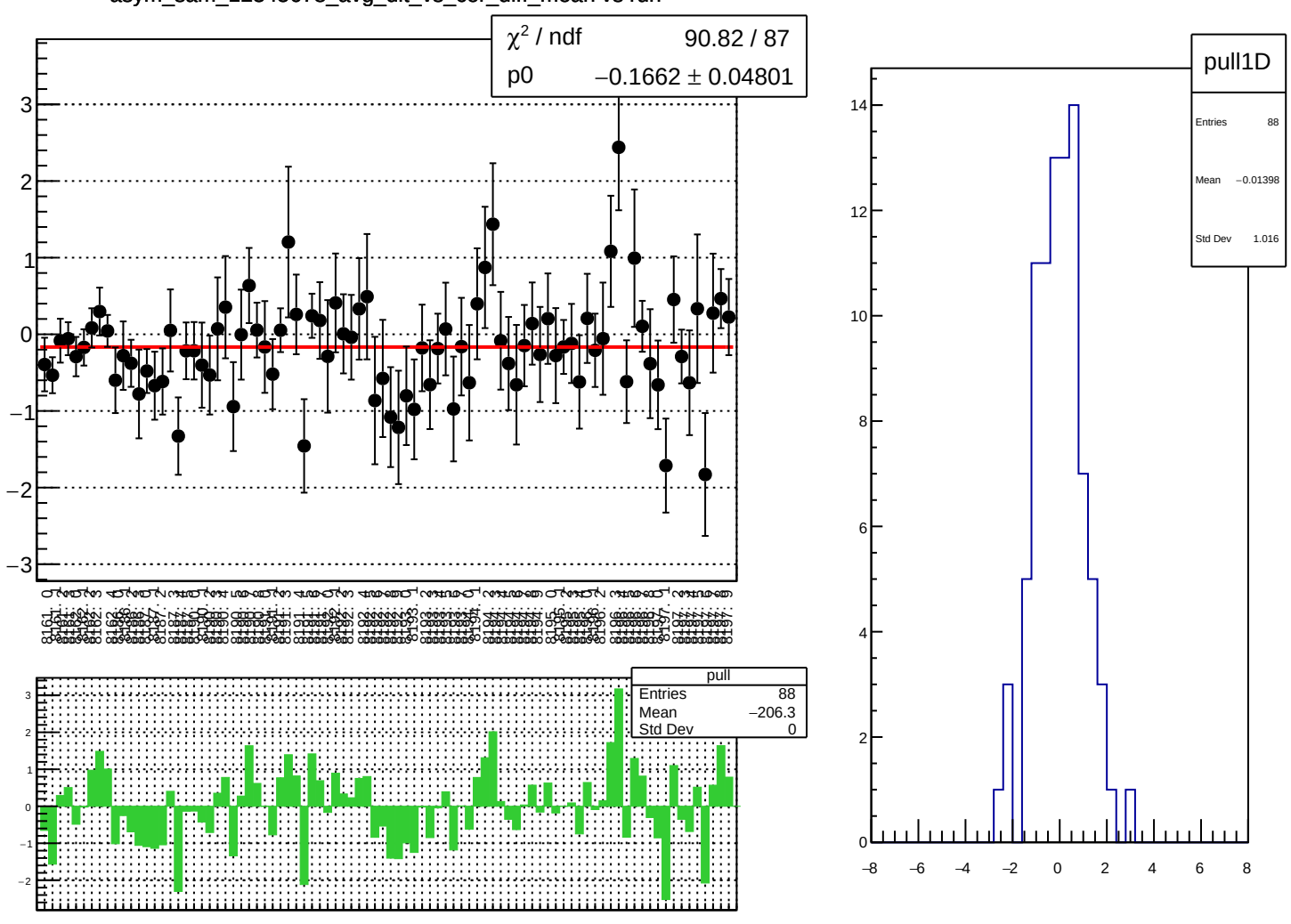

pull1D
Entries 88
Mean 0.0001659
Std Dev 0.9934

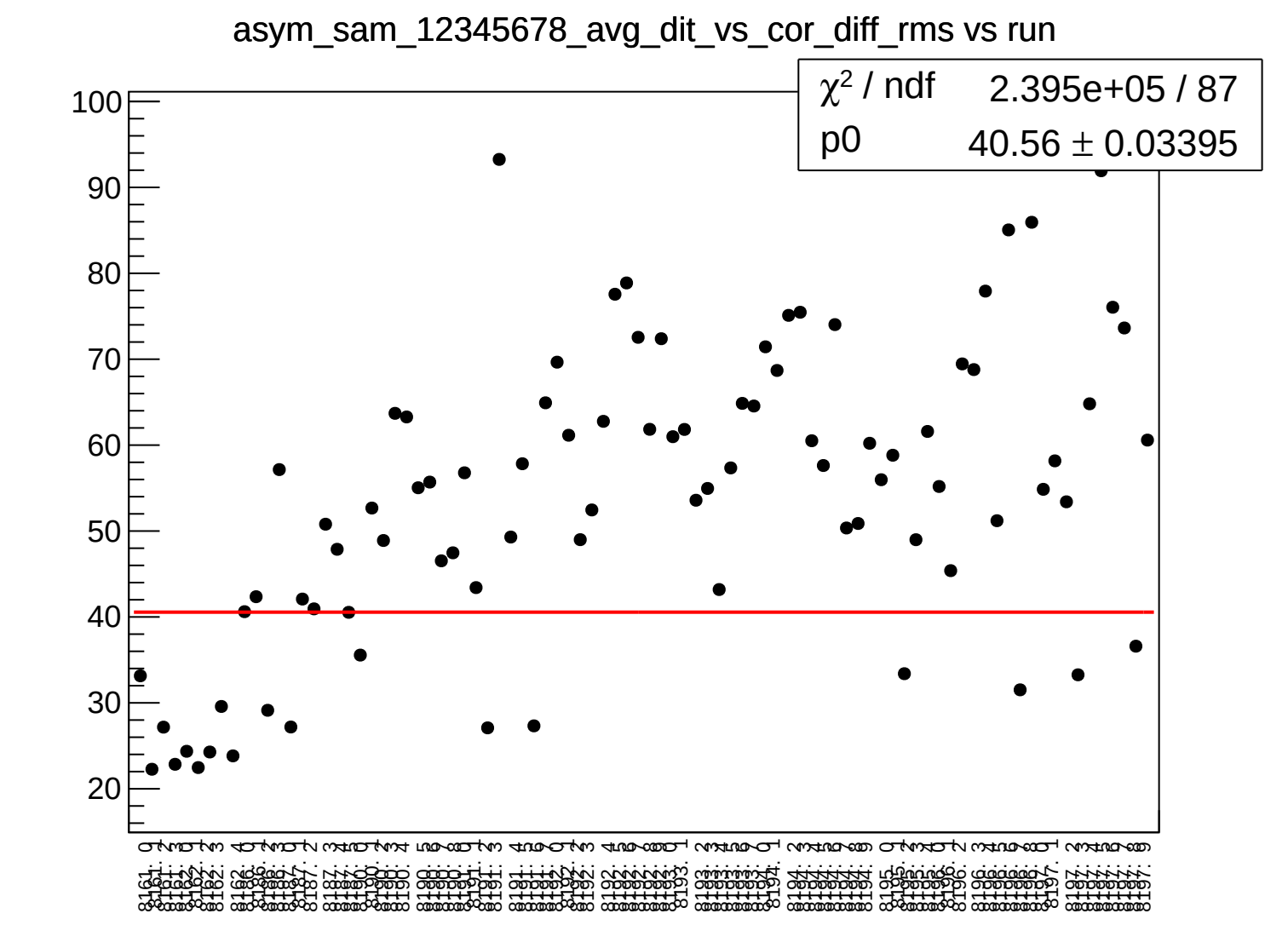

asym_sam_12345678_avg_rms vs run
χ² / ndf 7858 / 87
p0 1427 ± 1.108
1550
1500
1450
1400
1350
1300
1250
1200
1150

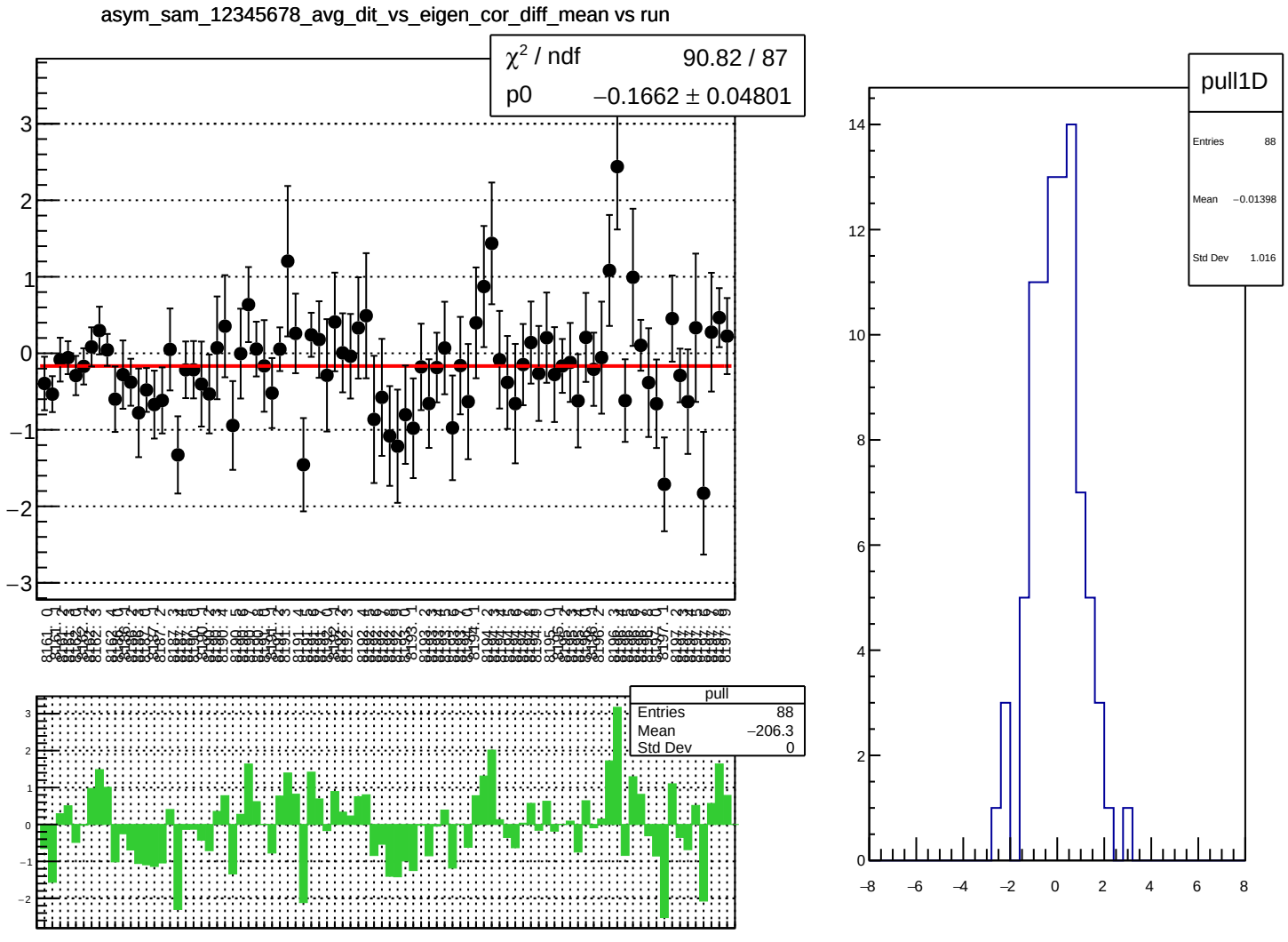

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.48 / 87
p0 6.675e−14 ± 1.275e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 28.26
Std Dev 31.83
3
2
1
0
−1
−2

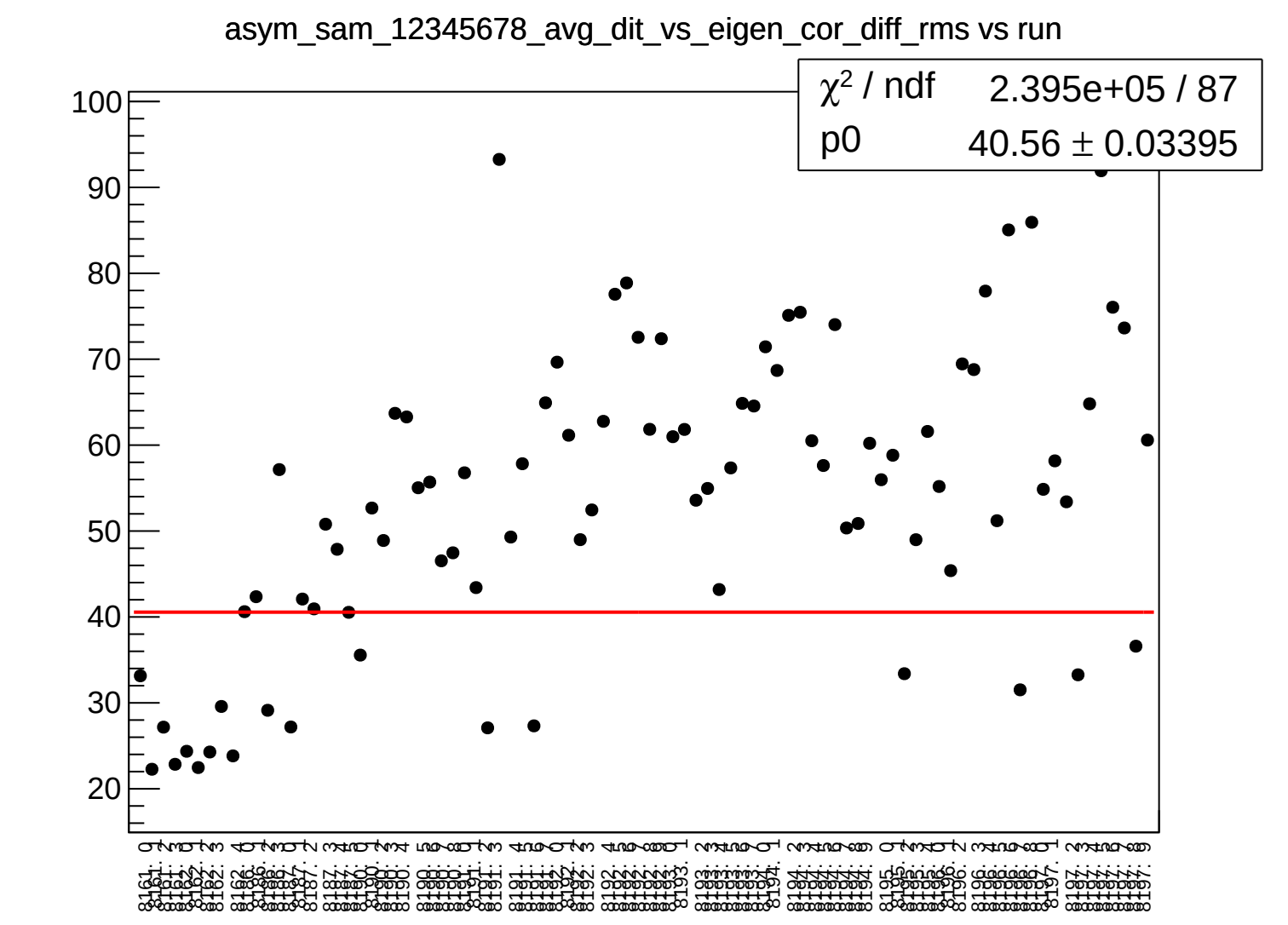

pull1D
Entries 88
Mean 0.08427
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

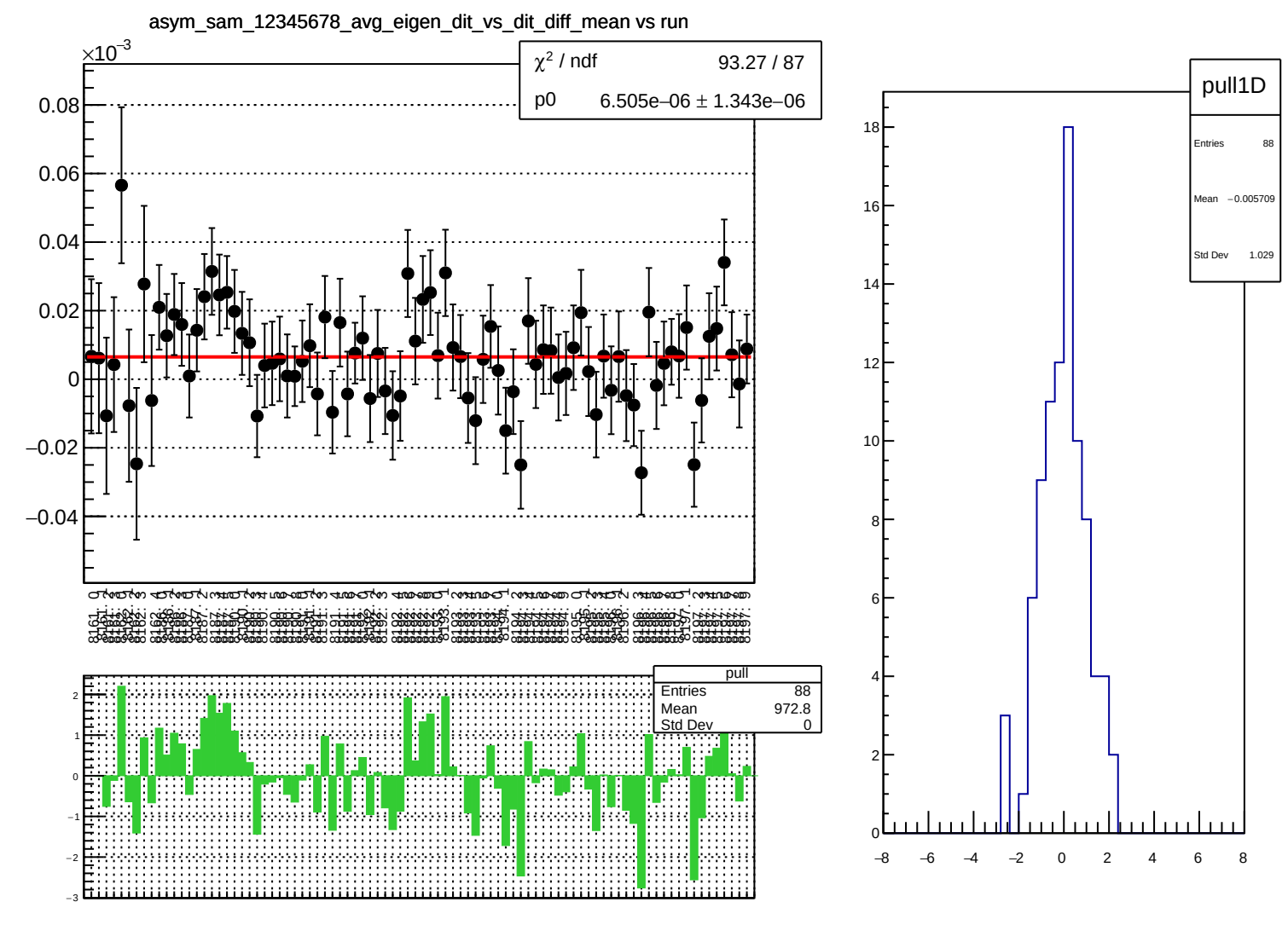

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.255e+05 / 87
p0 7.76e−11 ± 9.012e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

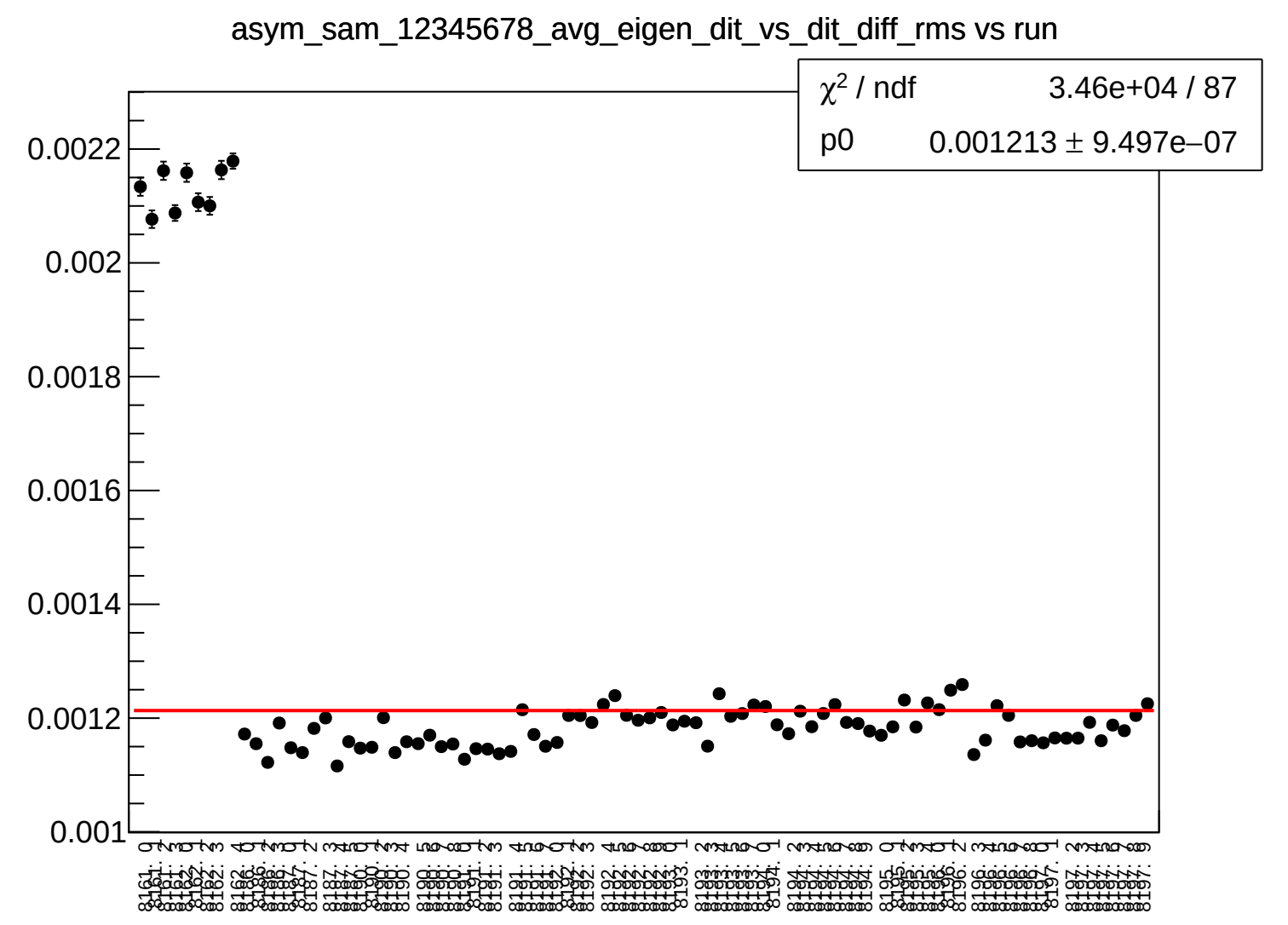

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.82 / 87
p0 −0.1662 ± 0.04801
pull
Entries 88
Mean −206.3
Std Dev 0
pull1D
Entries 88
Mean −0.01398
Std Dev 1.016


asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.395e+05 / 87
p0 40.56 ± 0.03395
100
90
80
70
60
50
40
30
20

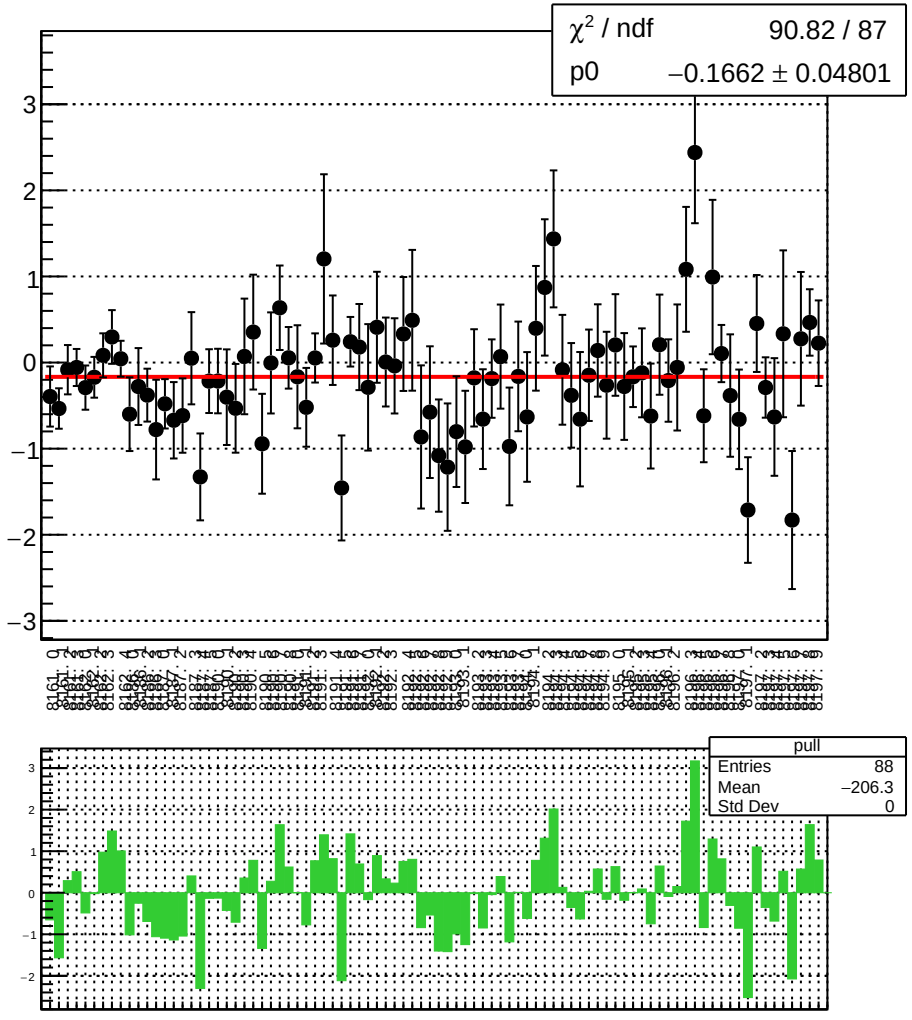

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.82 / 87
p0 −0.1662 ± 0.04801
pull
Entries 88
Mean −206.3
Std Dev 0
pull1D
Entries 88
Mean −0.01398
Std Dev 1.016

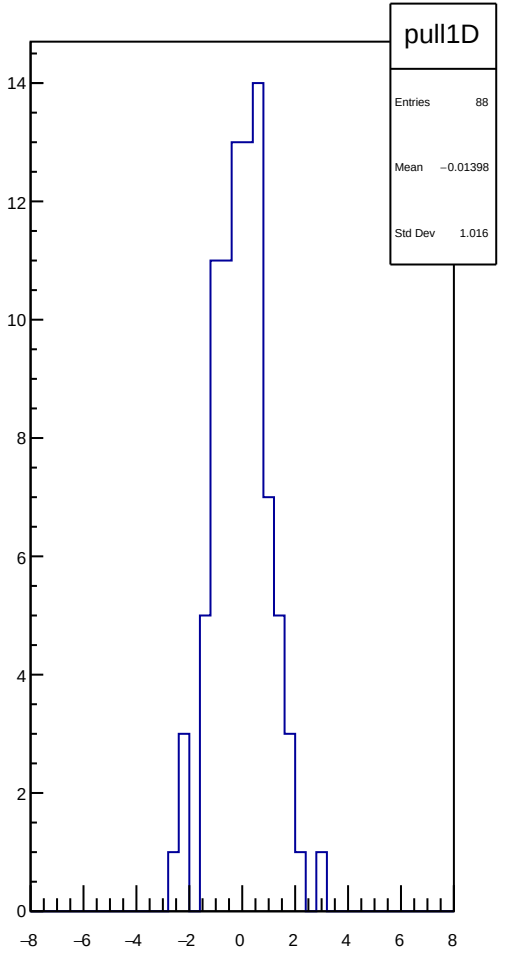

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.395e+05 / 87
p0 40.56 ± 0.03395
100
90
80
70
60
50
40
30
20

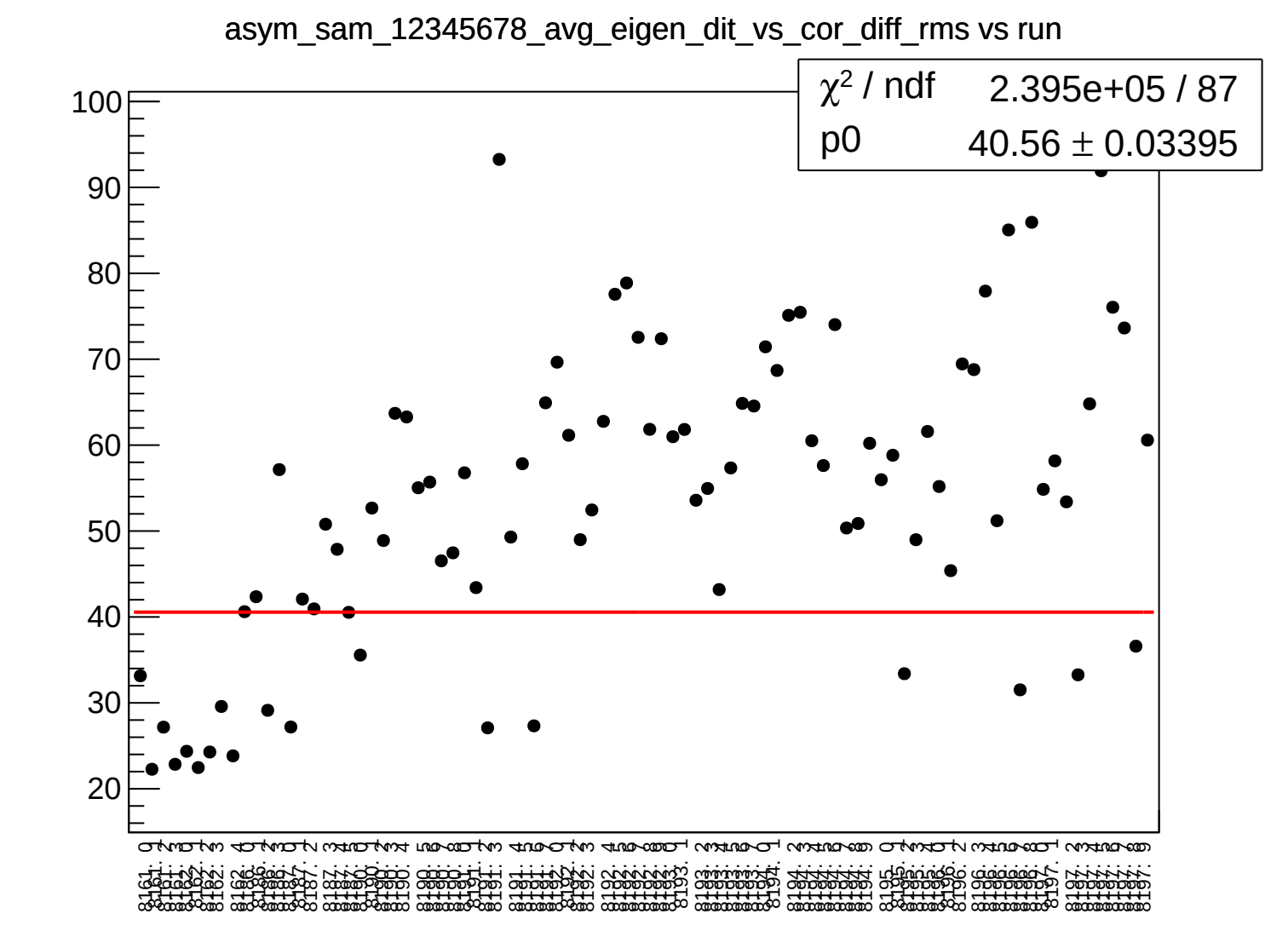

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.27 / 87
p0 6.505e−06 ± 1.343e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 972.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.005709
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

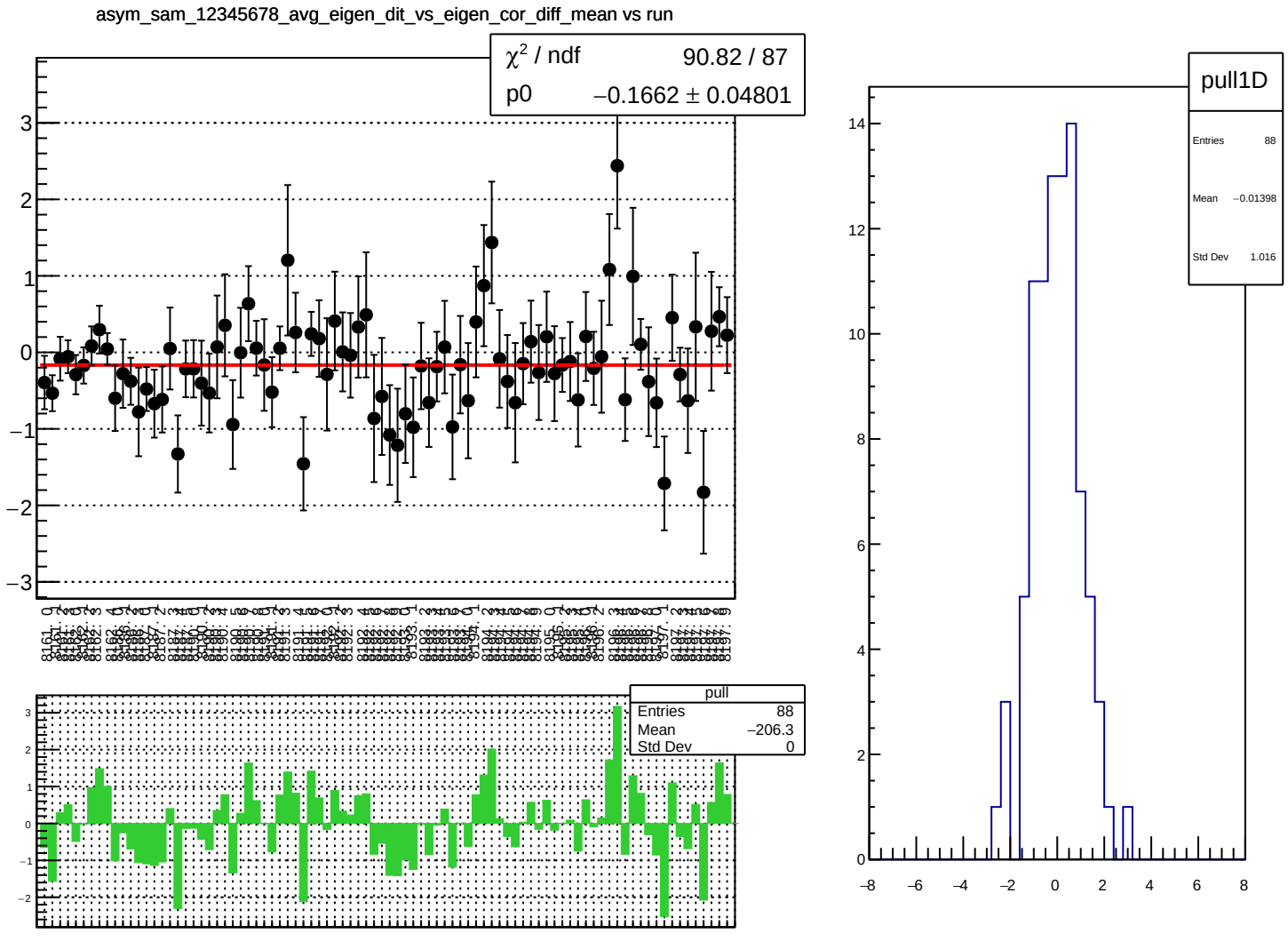

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.46e+04 / 87
p0 0.001213 ± 9.497e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

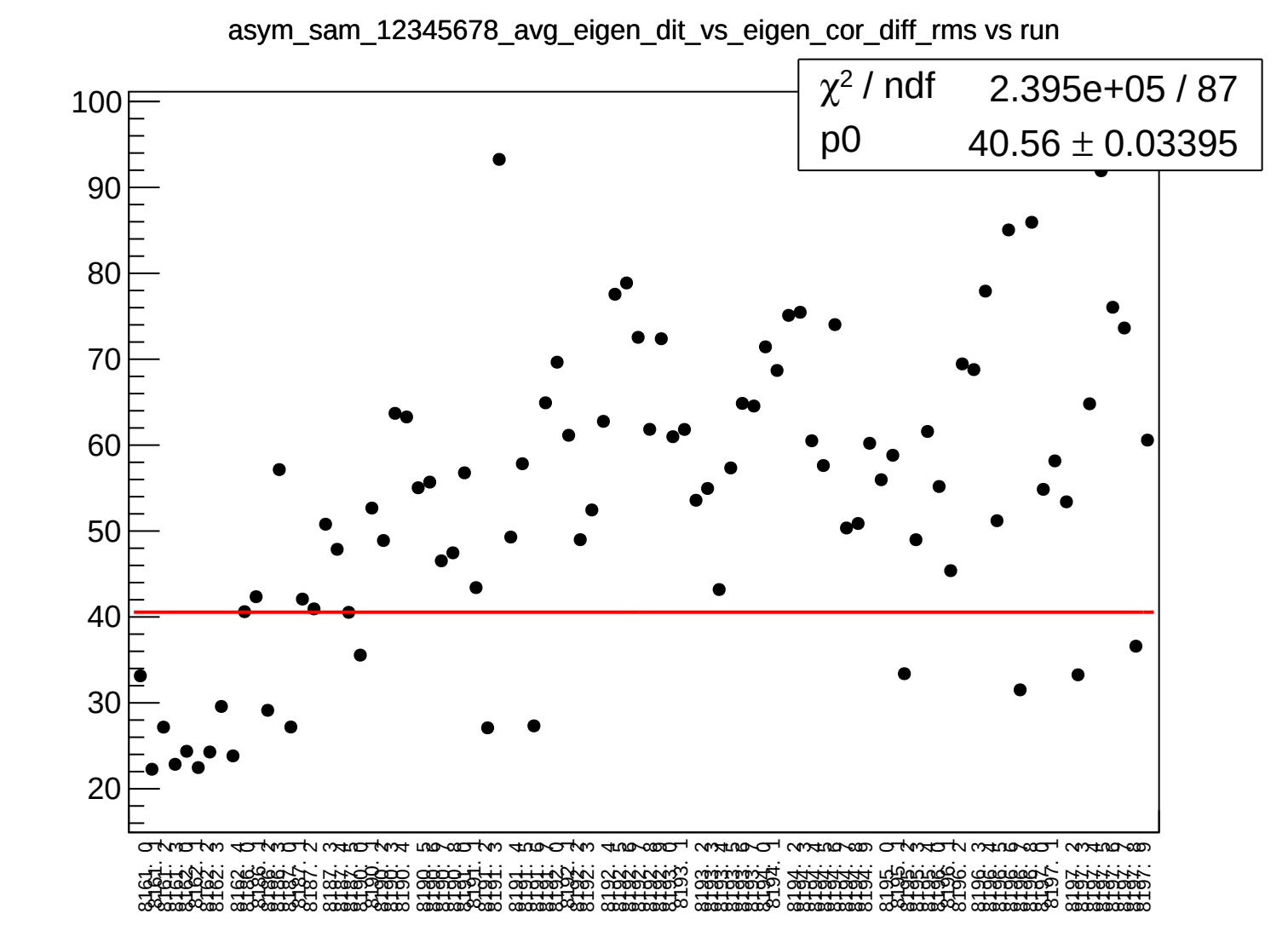
asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run

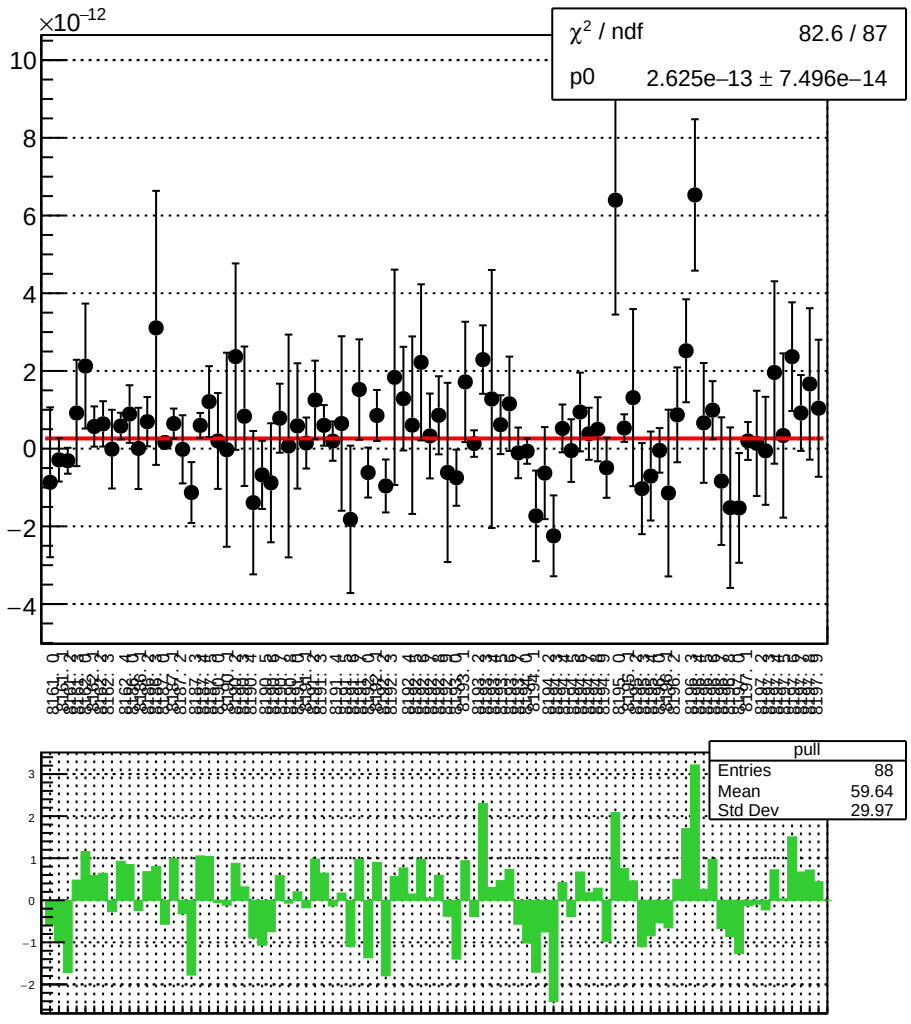


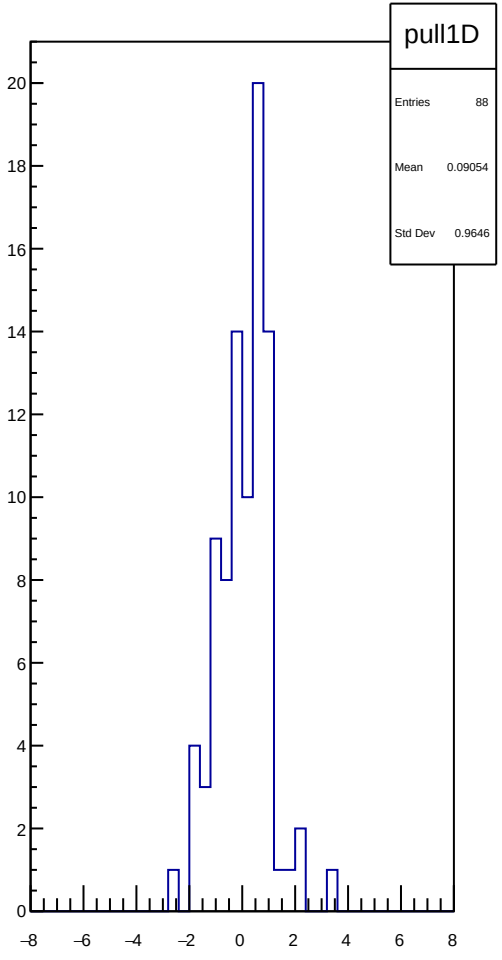


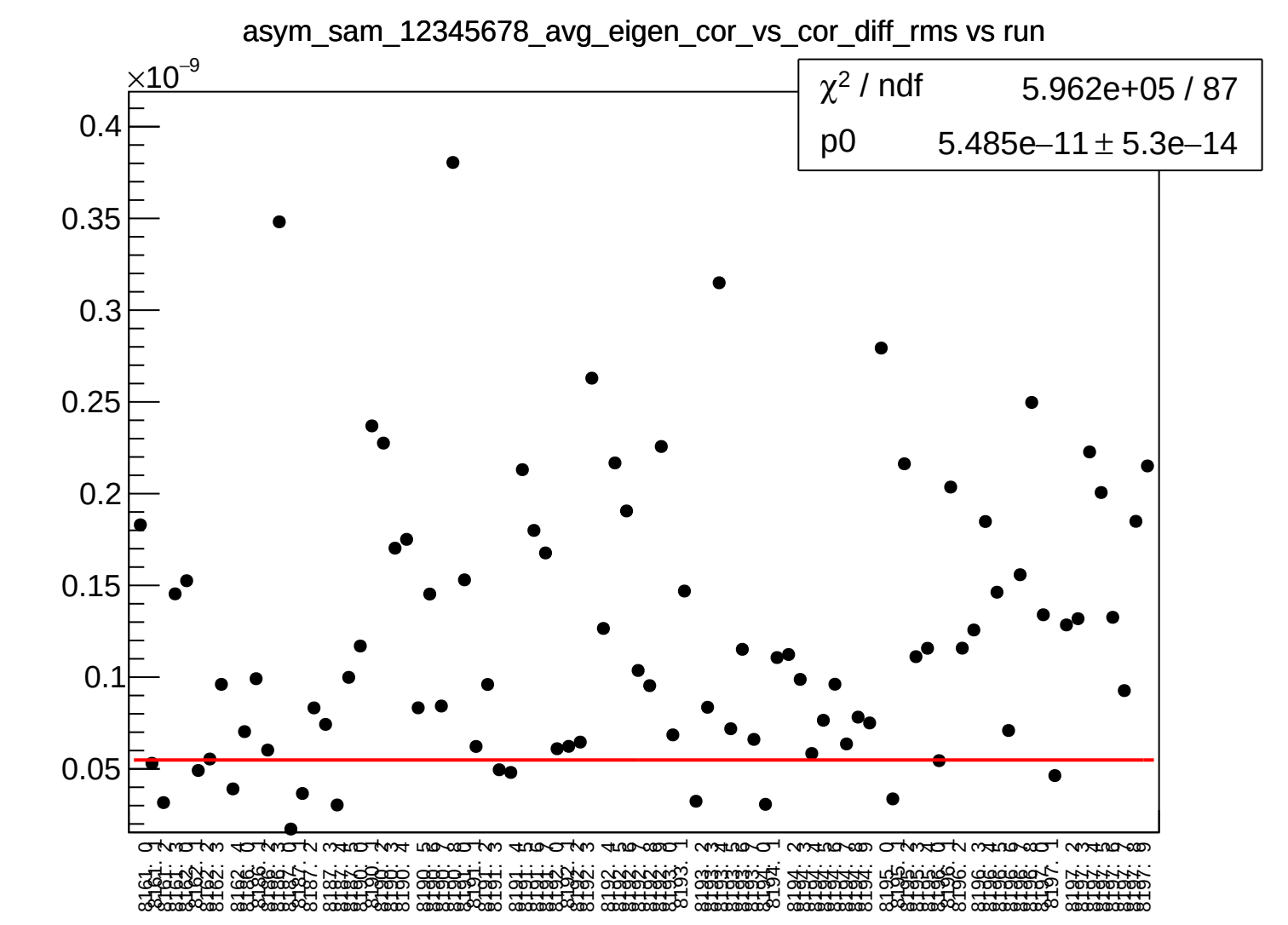

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.395e+05 / 87
p0 40.56 ± 0.03395
100
90
80
70
60
50
40
30
20

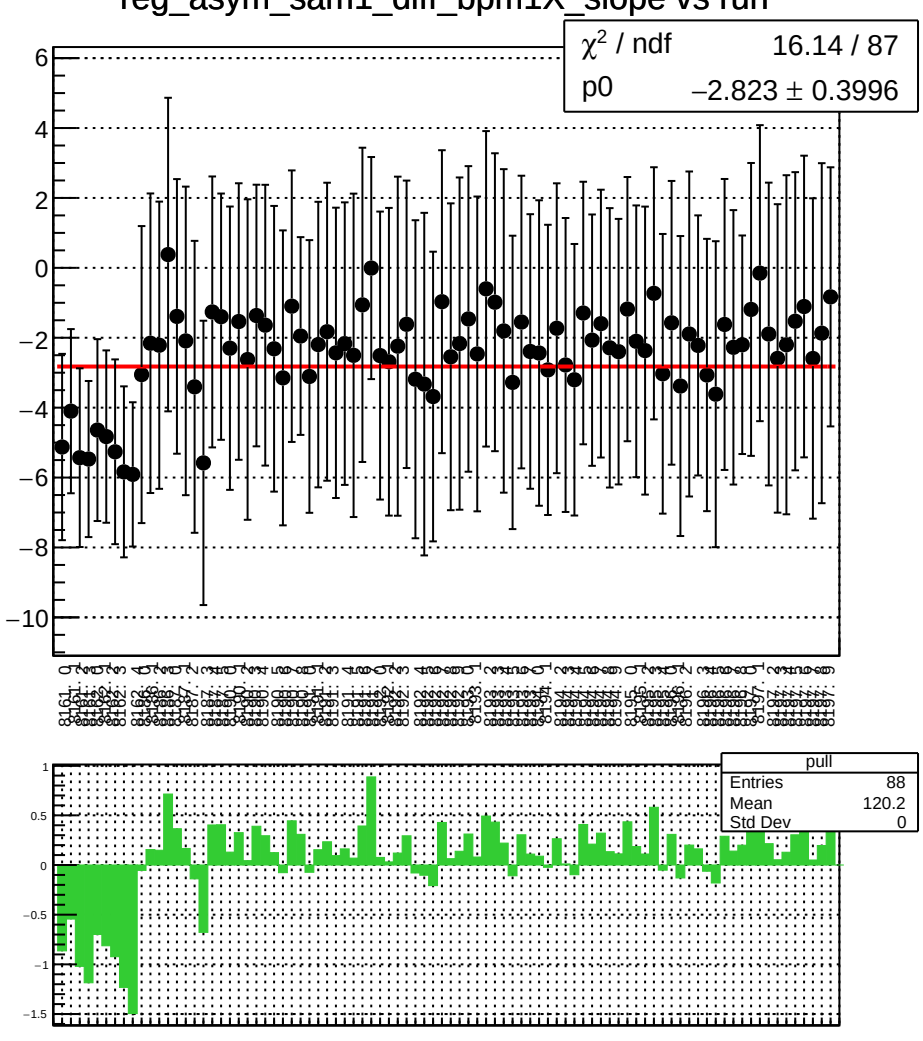

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.82 / 87
p0 −0.1662 ± 0.04801
pull
Entries 88
Mean −206.3
Std Dev 0
pull1D
Entries 88
Mean −0.01398
Std Dev 1.016

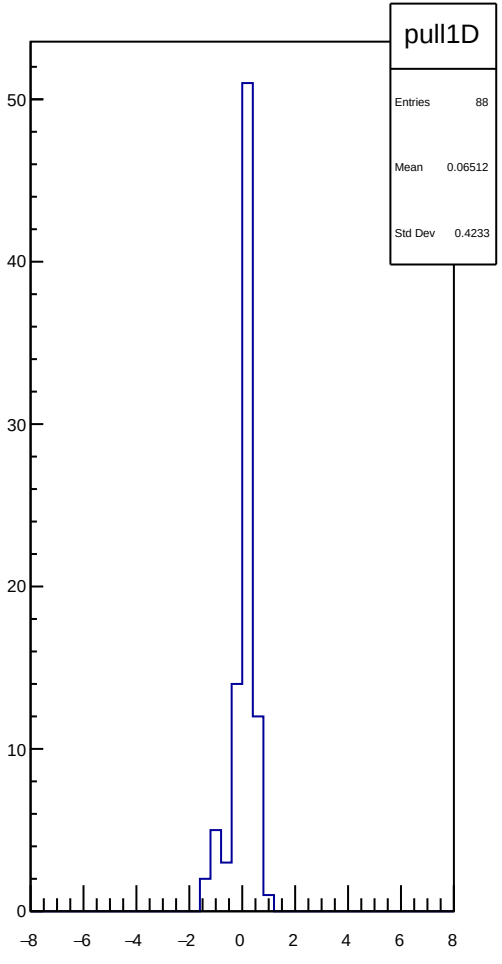

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.395e+05 / 87
p0 40.56 ± 0.03395
100
90
80
70
60
50
40
30
20

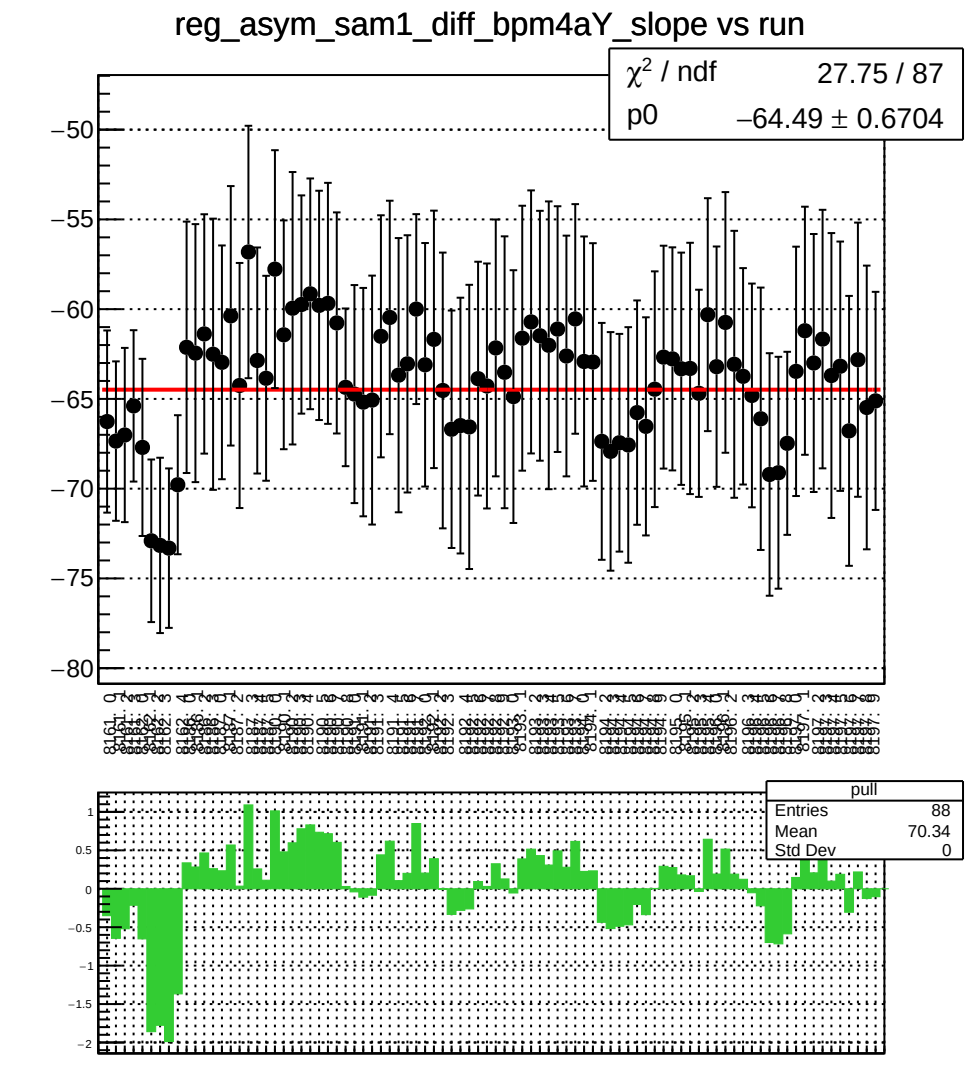

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.6 / 87
p0 2.625e−13 ± 7.496e−14
pull
Entries 88
Mean 59.64
Std Dev 29.97

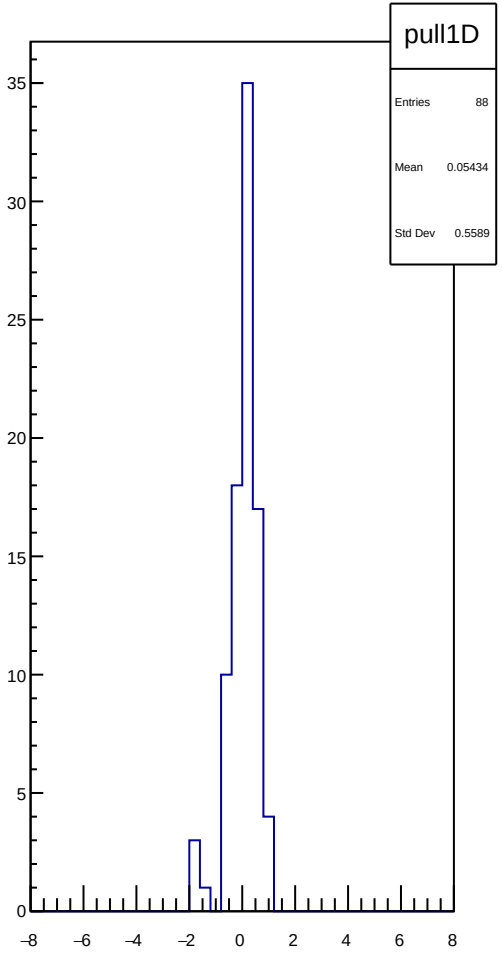

pull1D
Entries 88
Mean 0.09054
Std Dev 0.9646

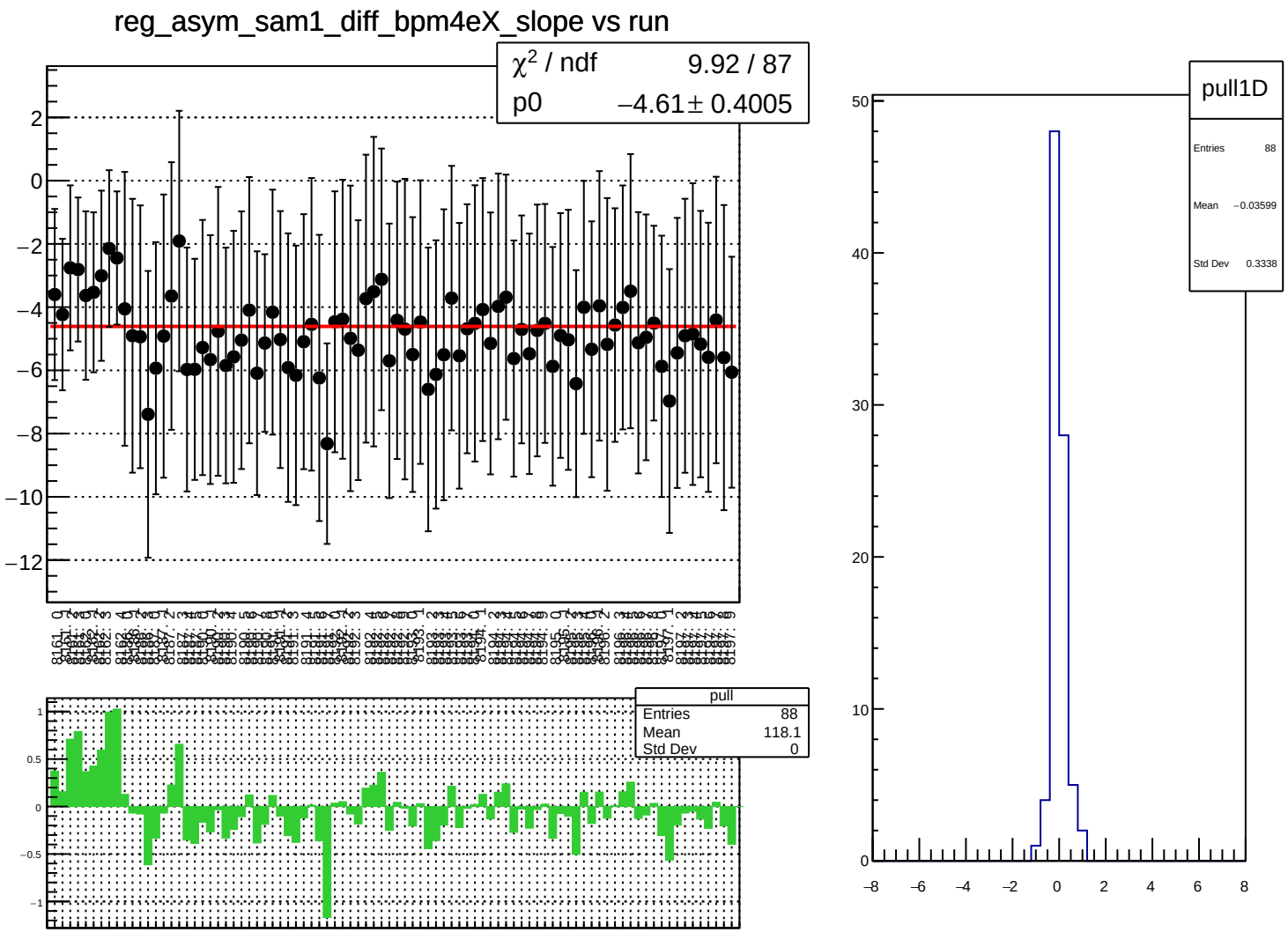

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.962e+05 / 87
p0 5.485e−11 ± 5.3e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

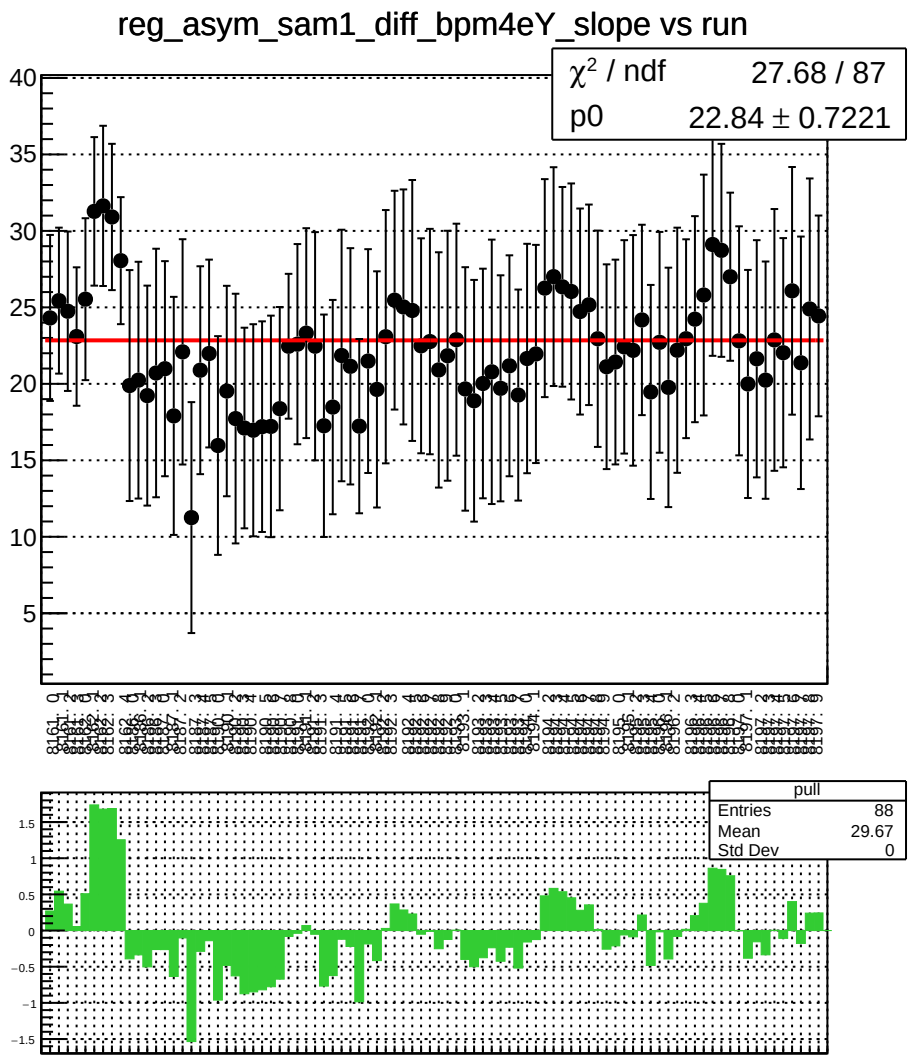

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 16.14 / 87
p0 −2.823 ± 0.3996
pull
Entries 88
Mean 120.2
Std Dev 0

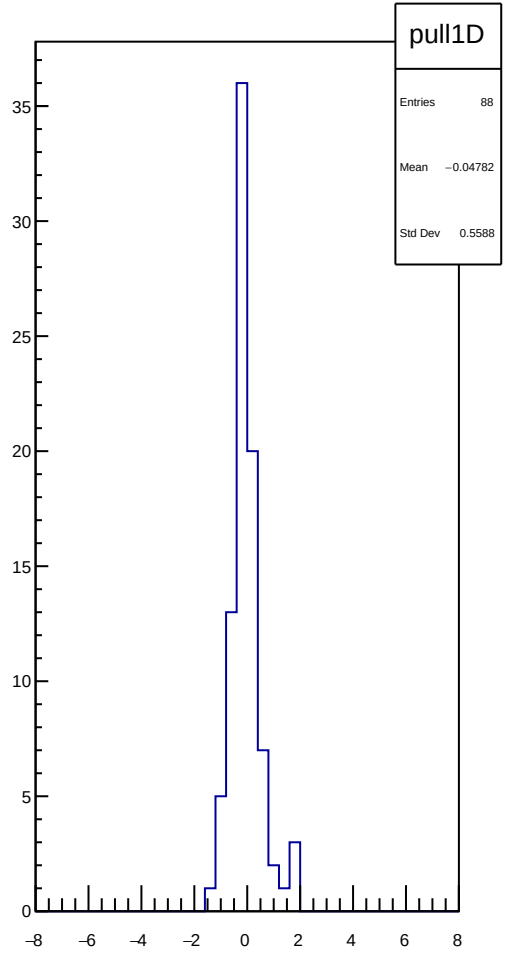

pull1D
Entries 88
Mean 0.06512
Std Dev 0.4233

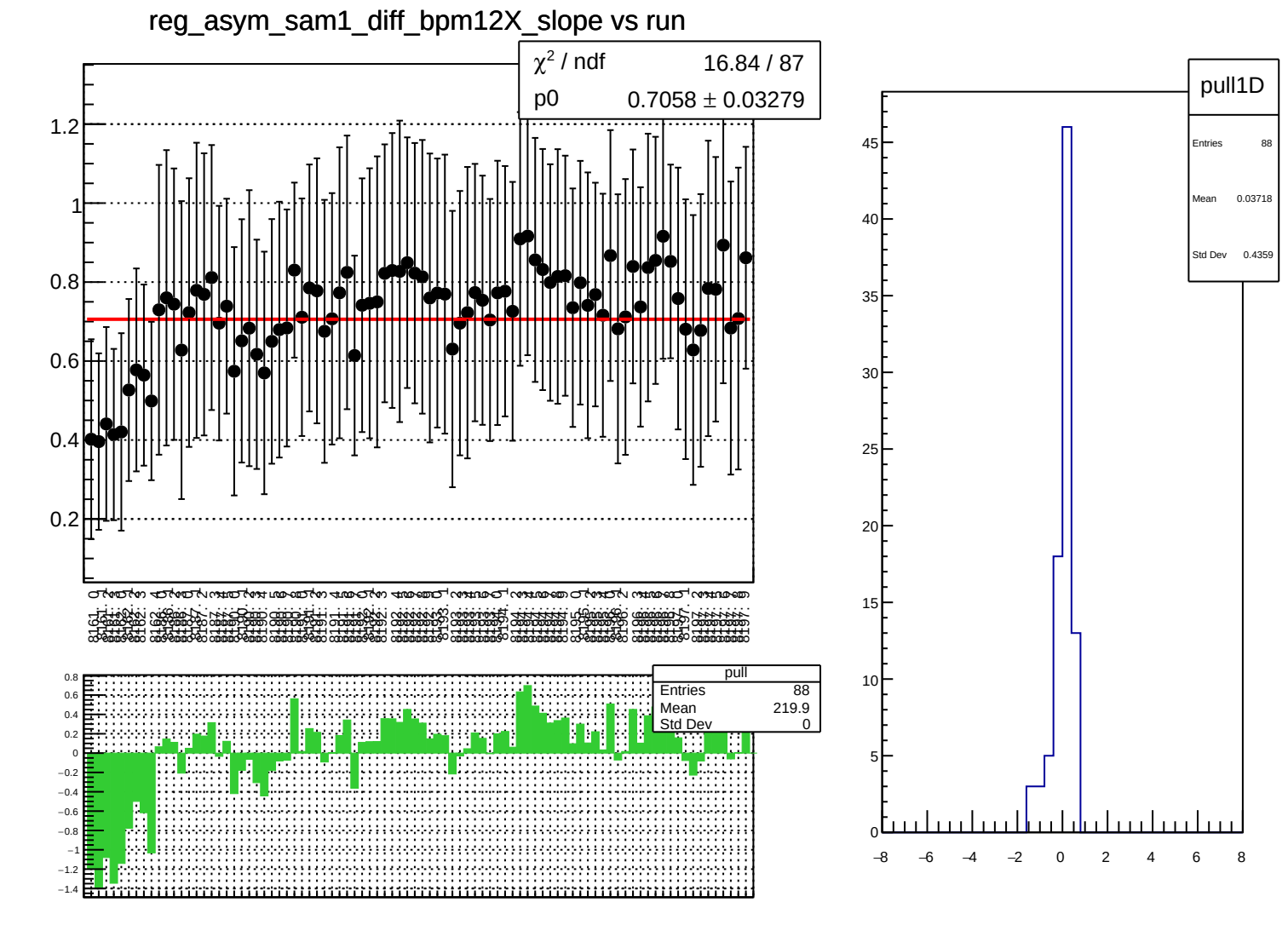

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 27.75 / 87
p0 −64.49 ± 0.6704
pull
Entries 88
Mean 70.34
Std Dev 0

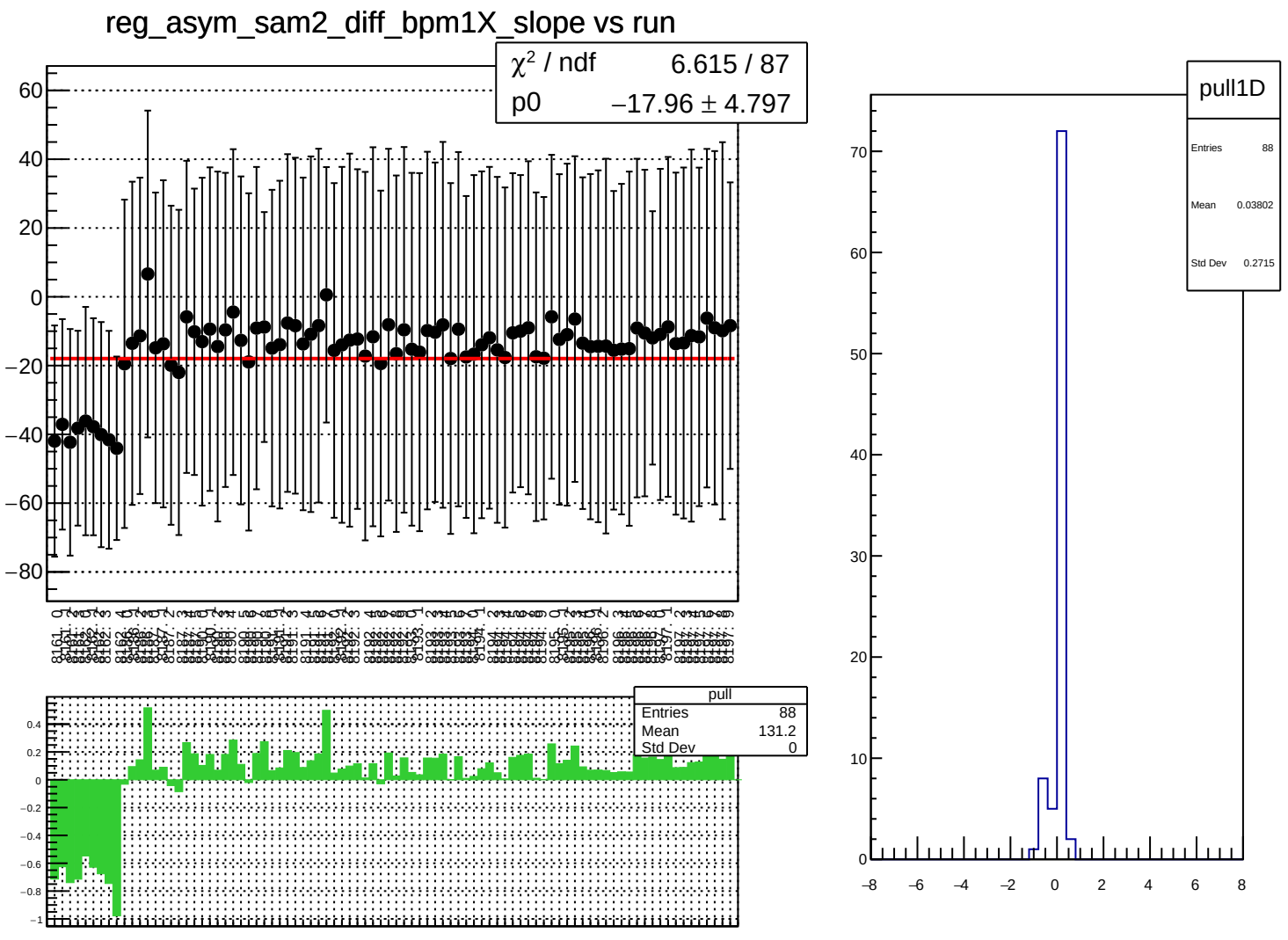

pull1D
Entries 88
Mean 0.05434
Std Dev 0.5589

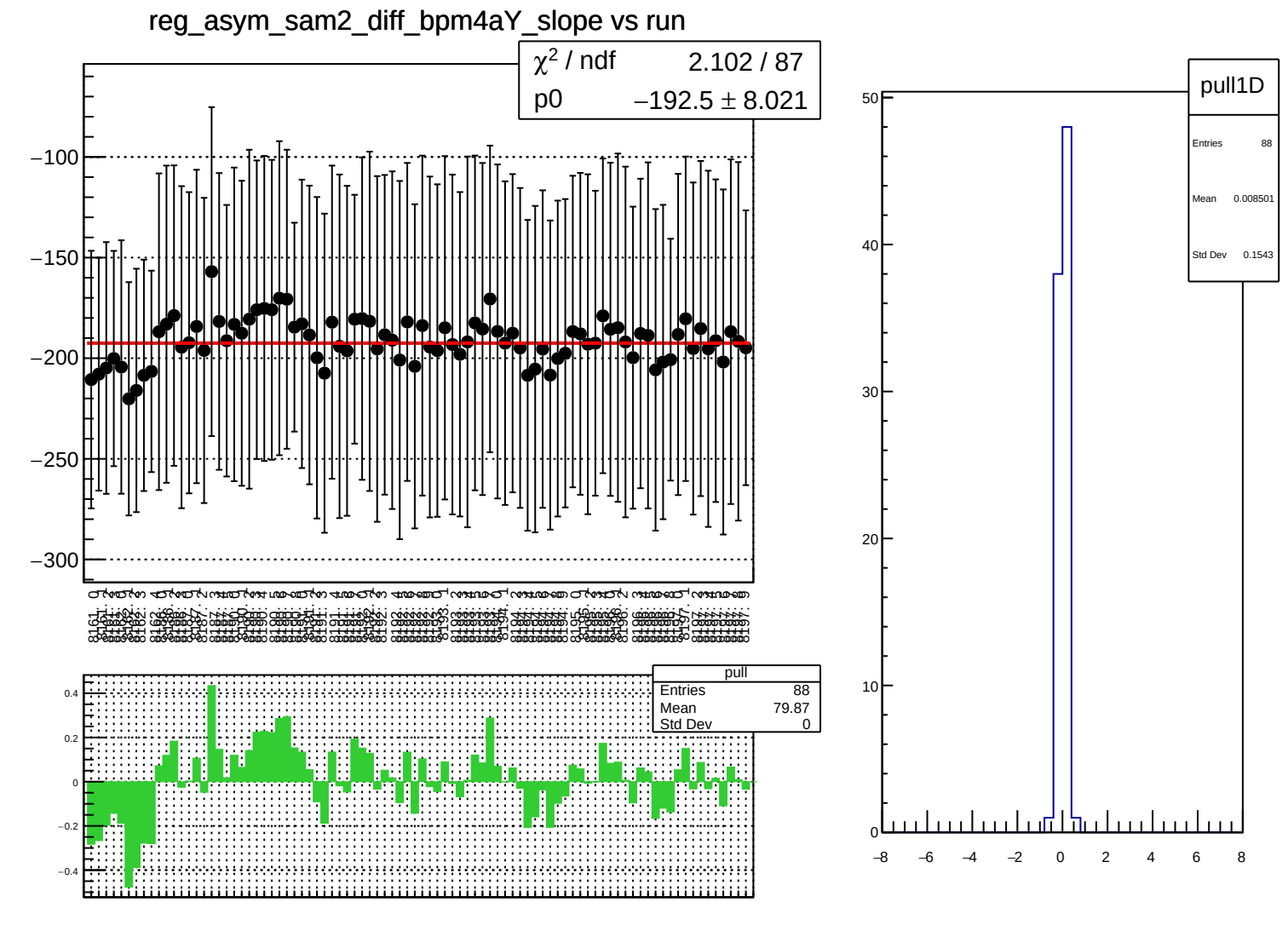

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 9.92 / 87
p0 −4.61 ± 0.4005
pull
Entries 88
Mean 118.1
Std Dev 0
pull1D
Entries 88
Mean −0.03599
Std Dev 0.3338

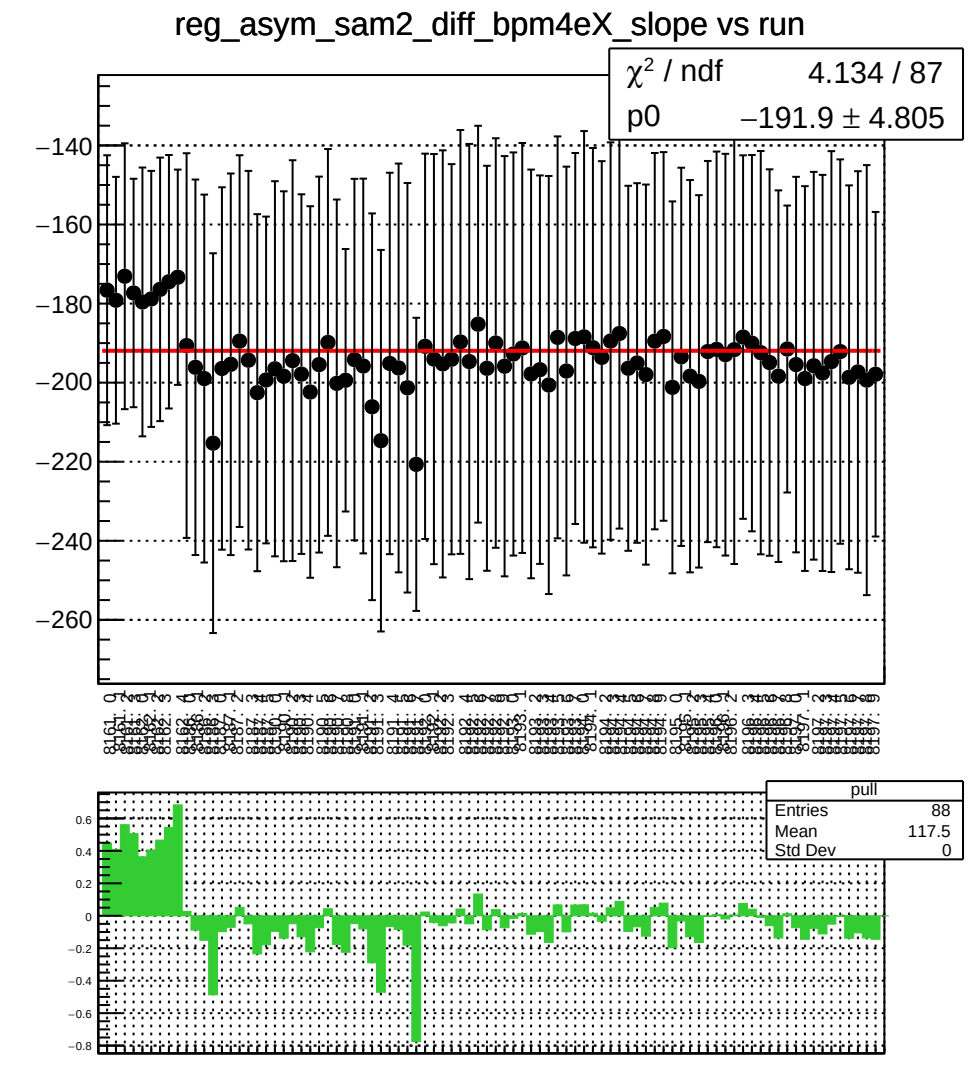

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 27.68 / 87
p0 22.84 ± 0.7221
pull
Entries 88
Mean 29.67
Std Dev 0

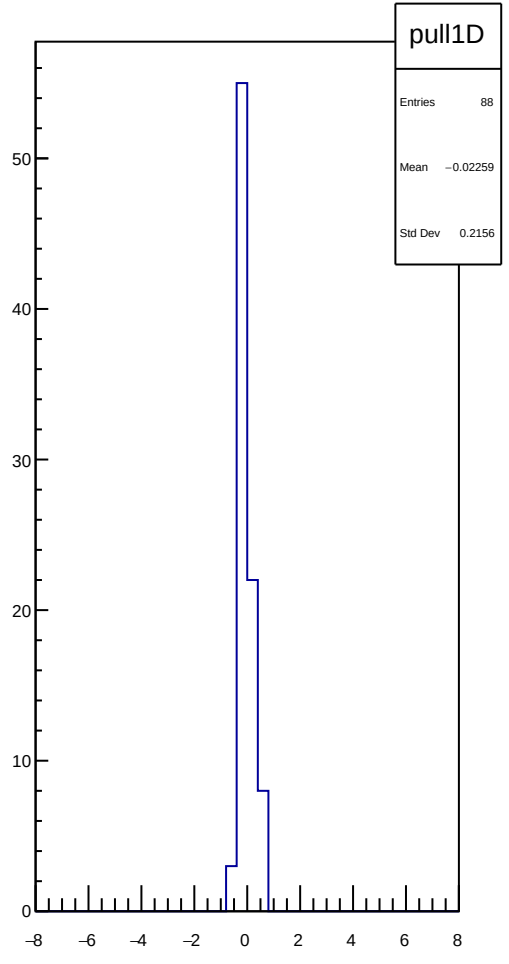

pull1D
Entries 88
Mean −0.04782
Std Dev 0.5588

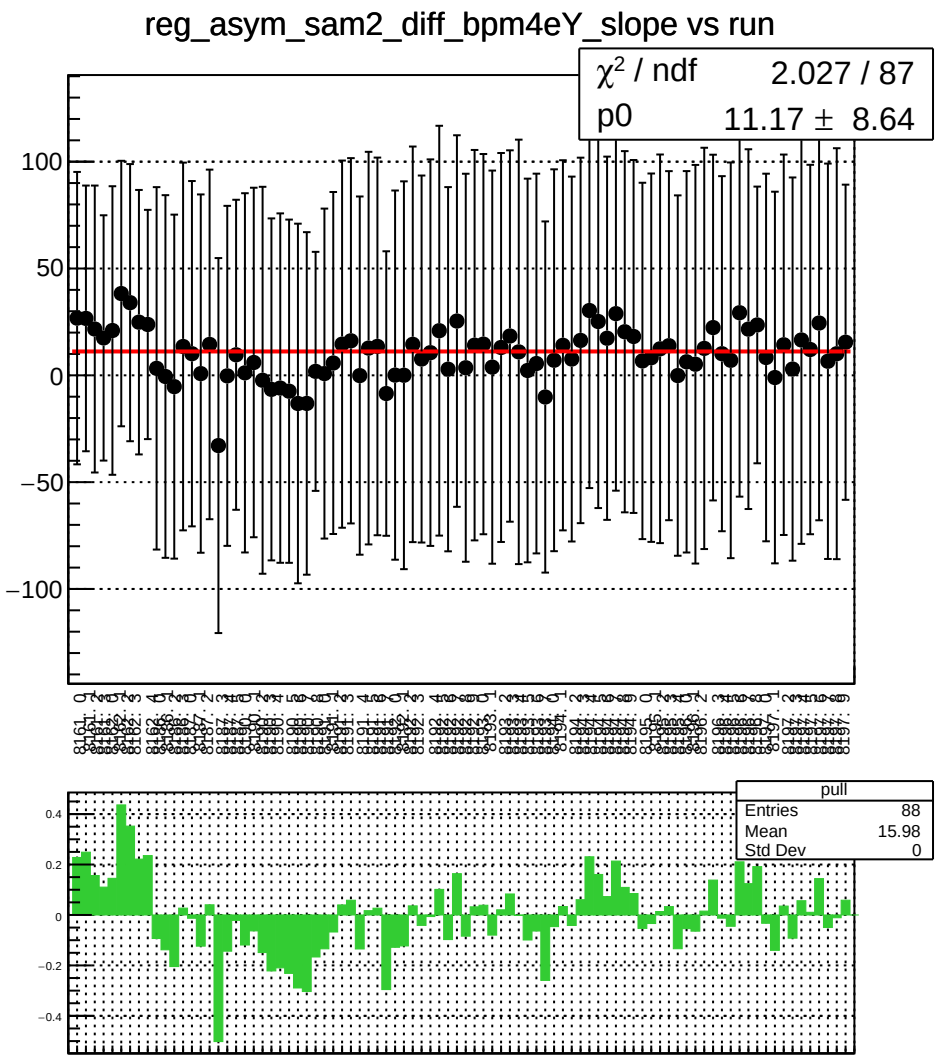

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 16.84 / 87
p0 0.7058 ± 0.03279
pull
Entries 88
Mean 219.9
Std Dev 0
pull1D
Entries 88
Mean 0.03718
Std Dev 0.4359

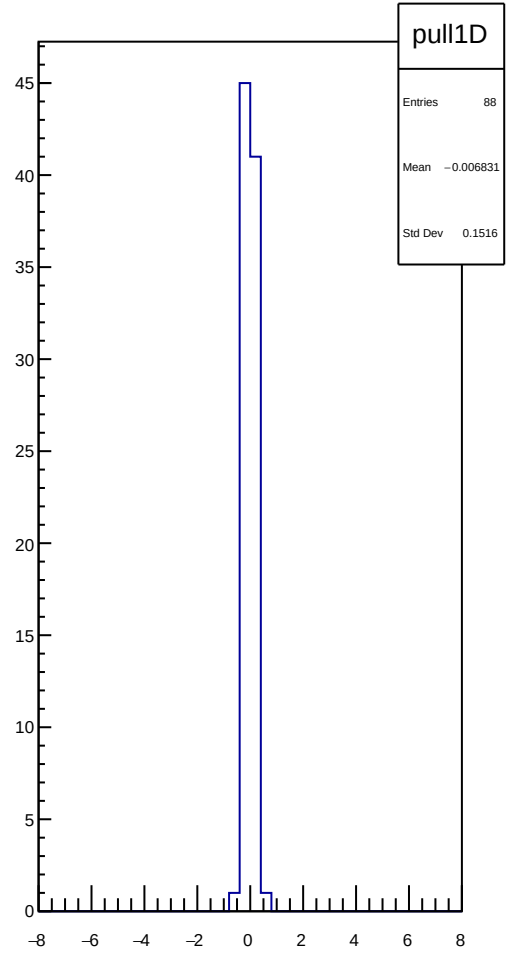

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 6.615 / 87
p0 −17.96 ± 4.797
pull
Entries 88
Mean 131.2
Std Dev 0
pull1D
Entries 88
Mean 0.03802
Std Dev 0.2715

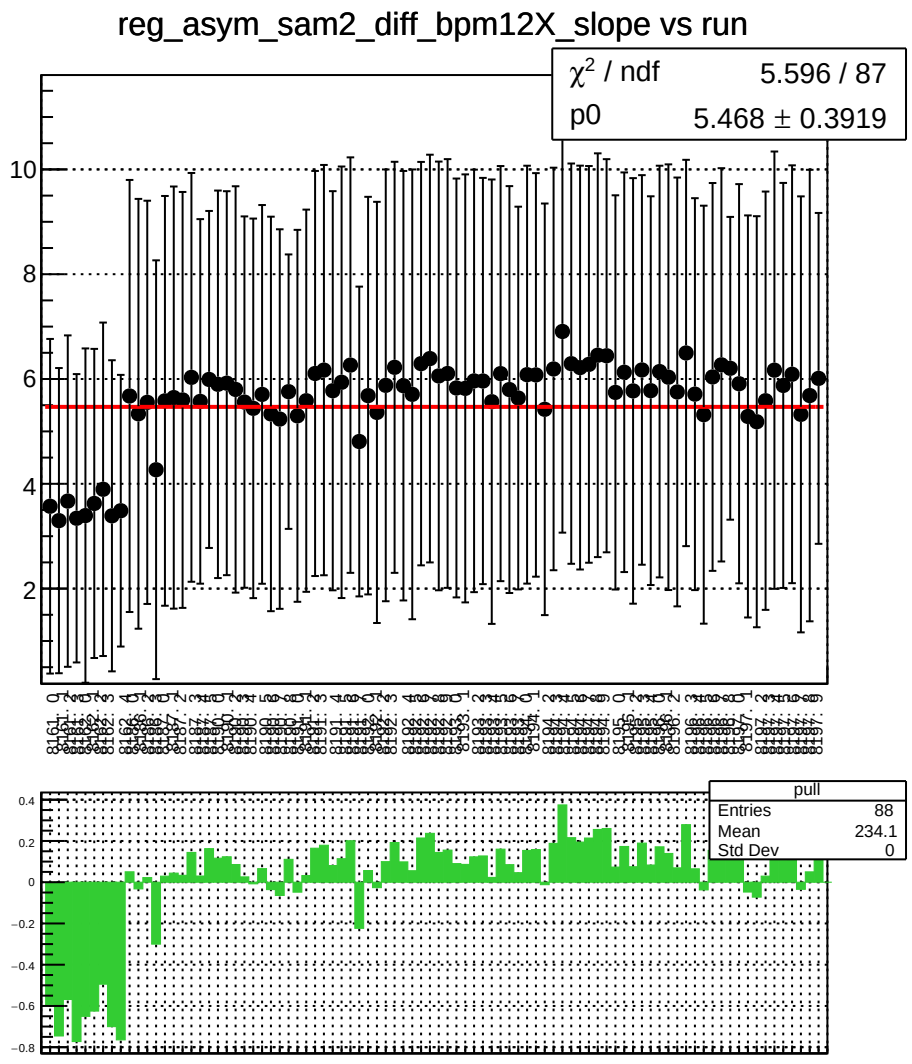

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.102 / 87
p0 −192.5 ± 8.021
−100
−150
−200
−250
−300
pull
Entries 88
Mean 79.87
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.008501
Std Dev 0.1543
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

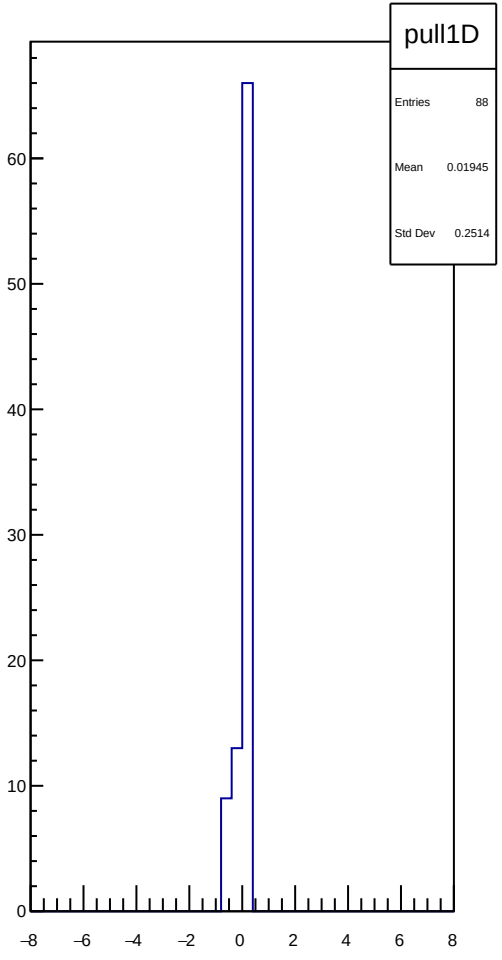

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.134 / 87
p0 −191.9 ± 4.805
−140
−160
−180
−200
−220
−240
−260
pull
Entries 88
Mean 117.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

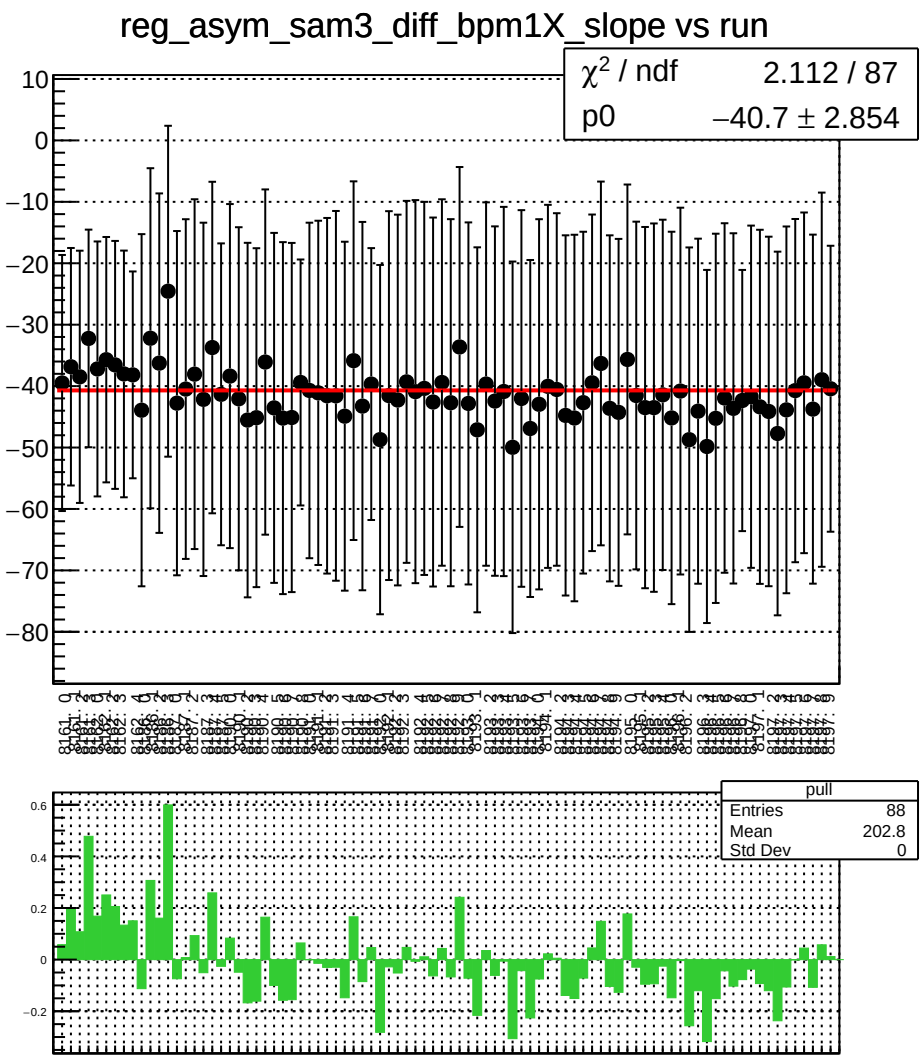

pull1D
Entries 88
Mean −0.02259
Std Dev 0.2156
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

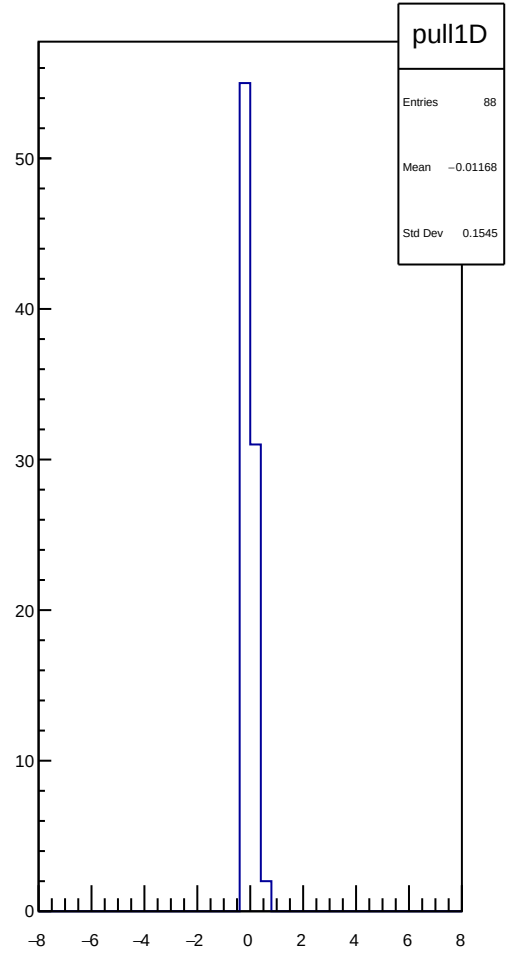

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 2.027 / 87
p0 11.17 ± 8.64
100
50
0
−50
−100
pull
Entries 88
Mean 15.98
Std Dev 0
0.4
0.2
0
−0.2
−0.4

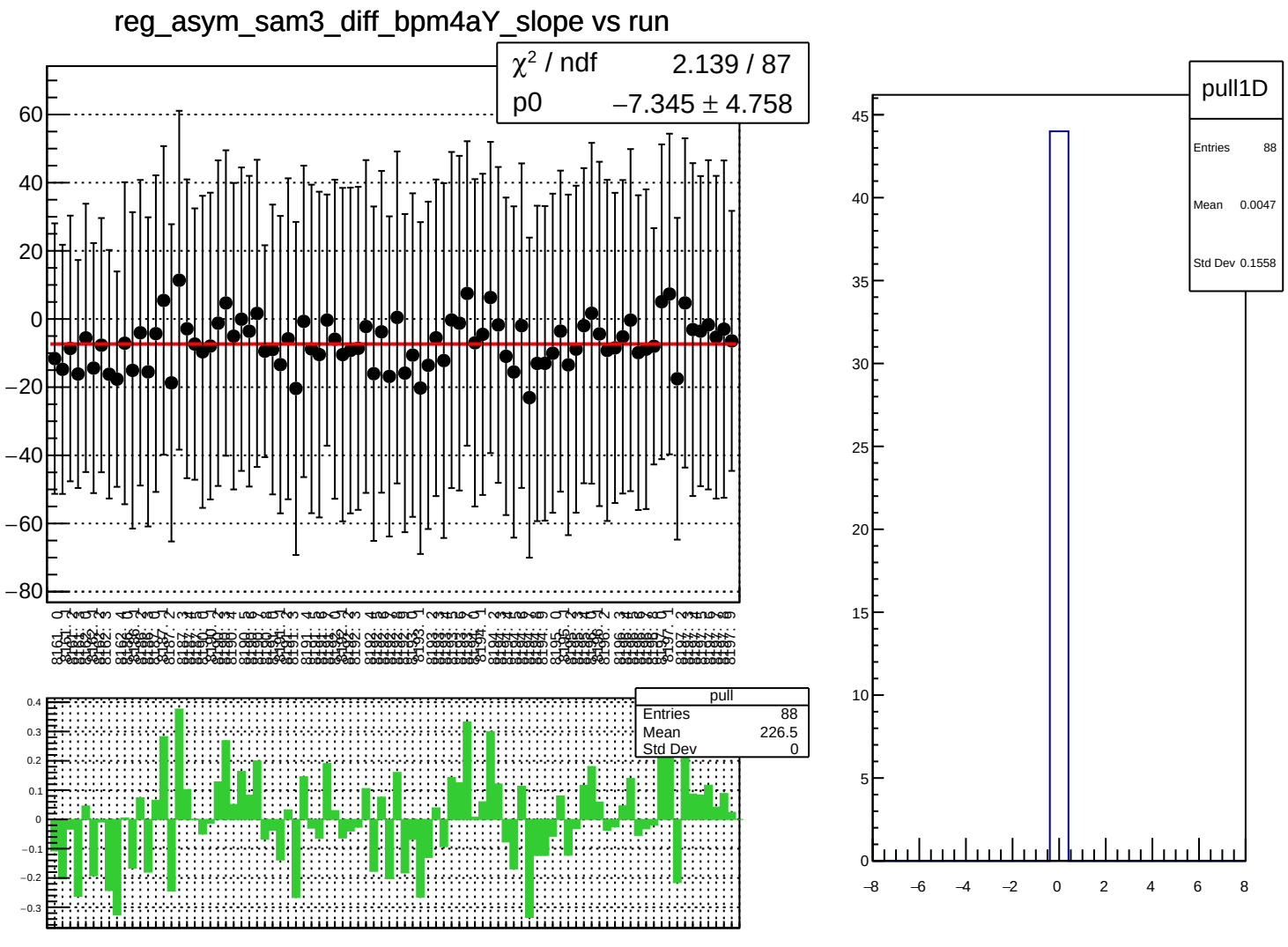

pull1D
Entries 88
Mean −0.006831
Std Dev 0.1516
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

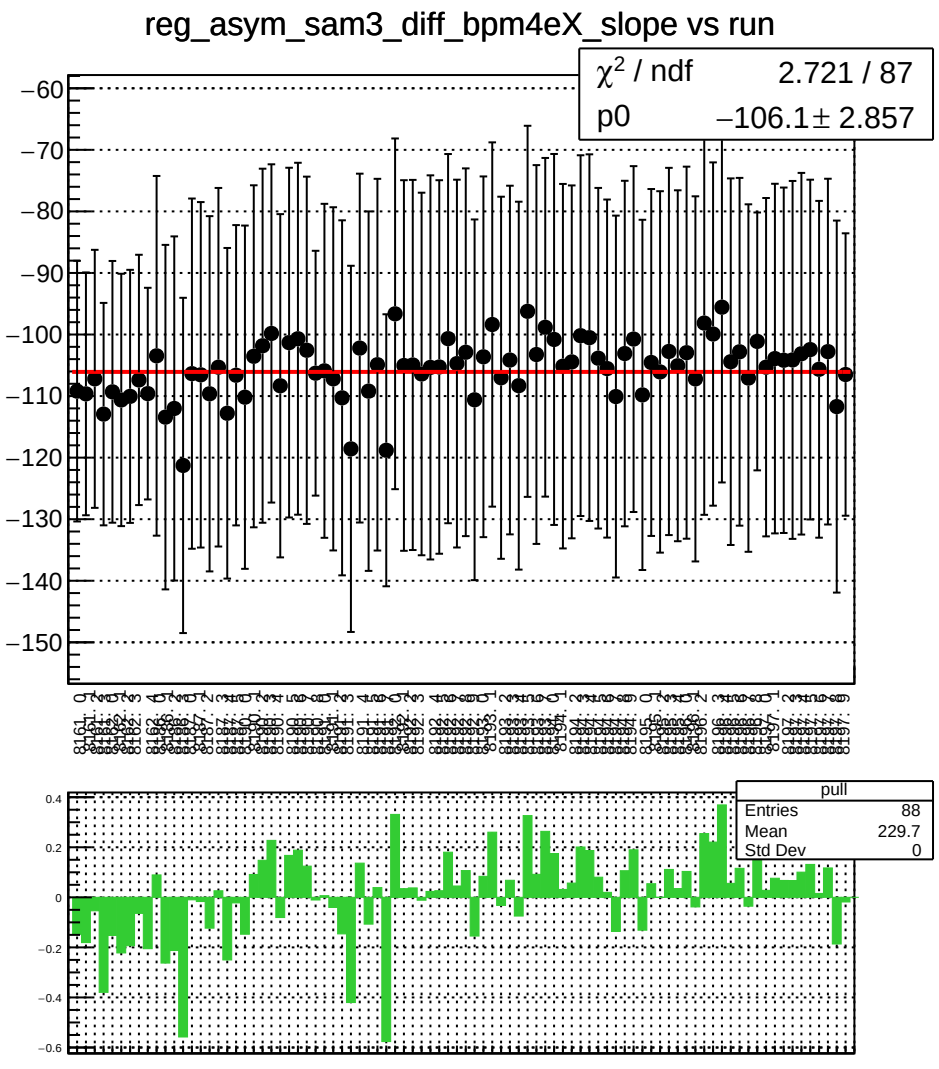

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 5.596 / 87
p0 5.468 ± 0.3919
pull
Entries 88
Mean 234.1
Std Dev 0

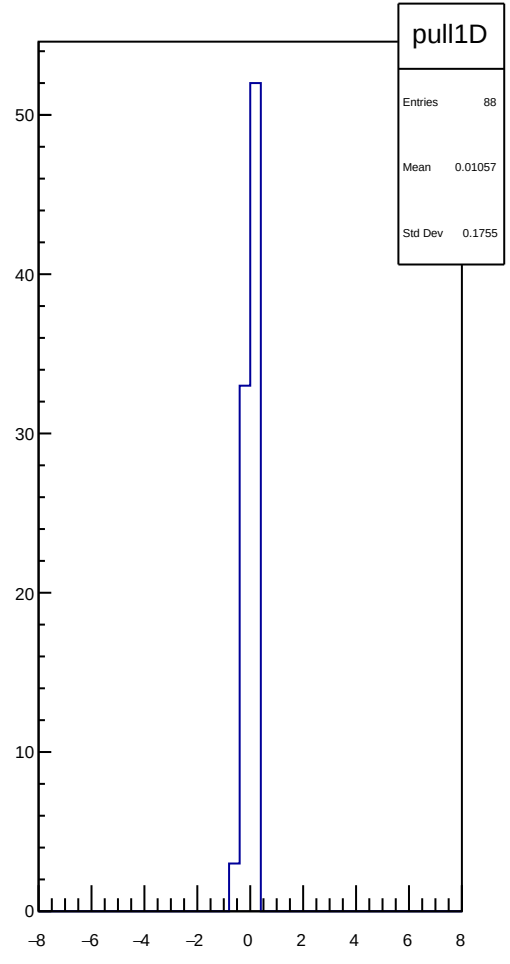

pull1D
Entries 88
Mean 0.01945
Std Dev 0.2514

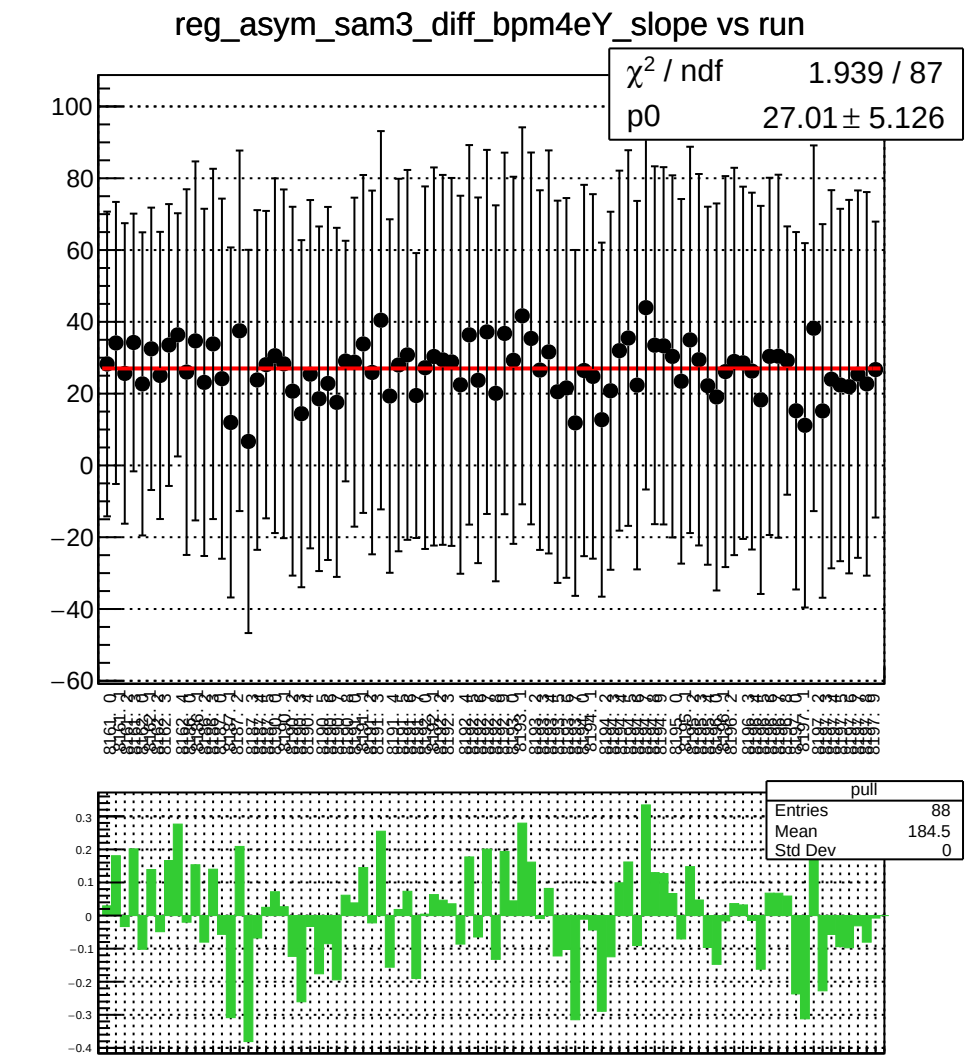

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 2.112 / 87
p0 −40.7 ± 2.854
pull
Entries 88
Mean 202.8
Std Dev 0

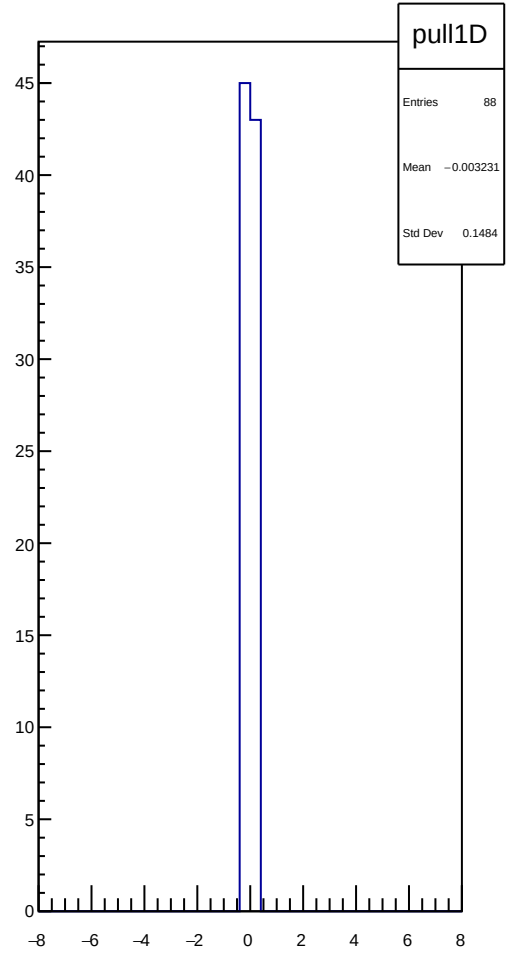

pull1D
Entries 88
Mean −0.01168
Std Dev 0.1545

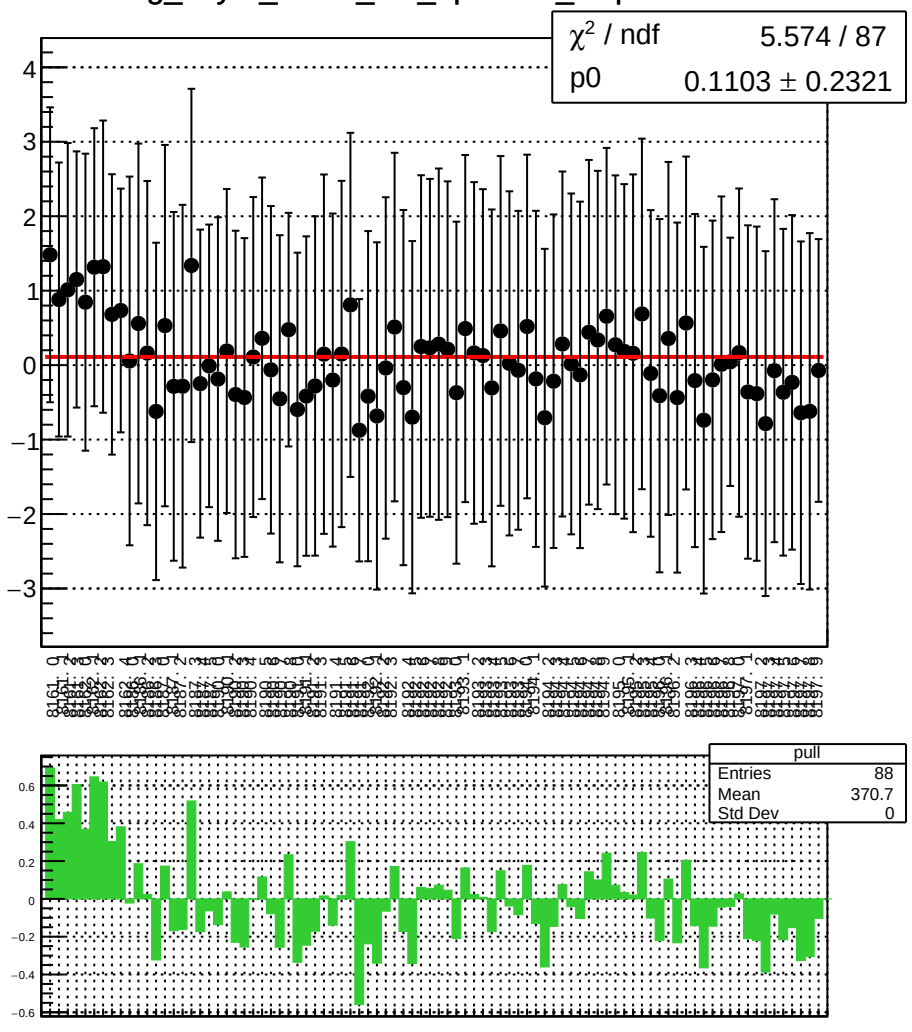

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.139 / 87
p0 −7.345 ± 4.758
pull
Entries 88
Mean 226.5
Std Dev 0
pull1D
Entries 88
Mean 0.0047
Std Dev 0.1558

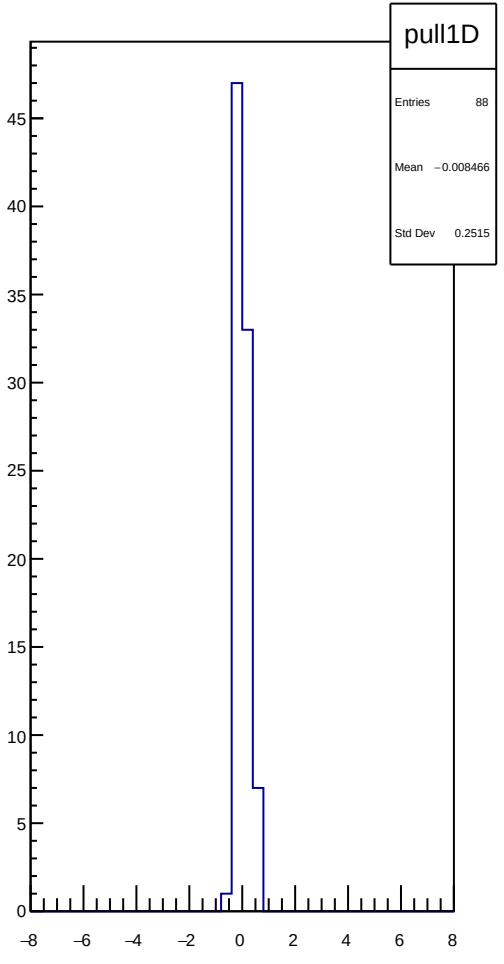

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.721 / 87
p0 −106.1 ± 2.857
pull
Entries 88
Mean 229.7
Std Dev 0

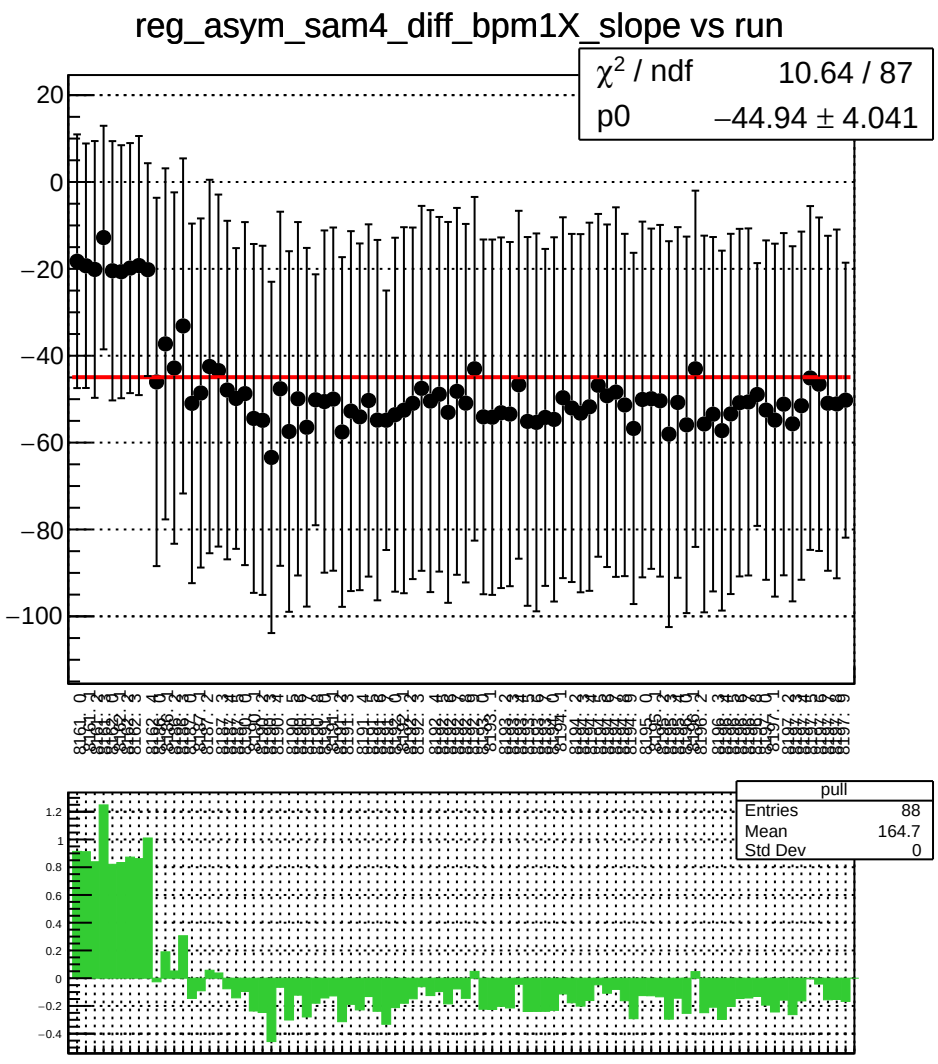

pull1D
Entries 88
Mean 0.01057
Std Dev 0.1755

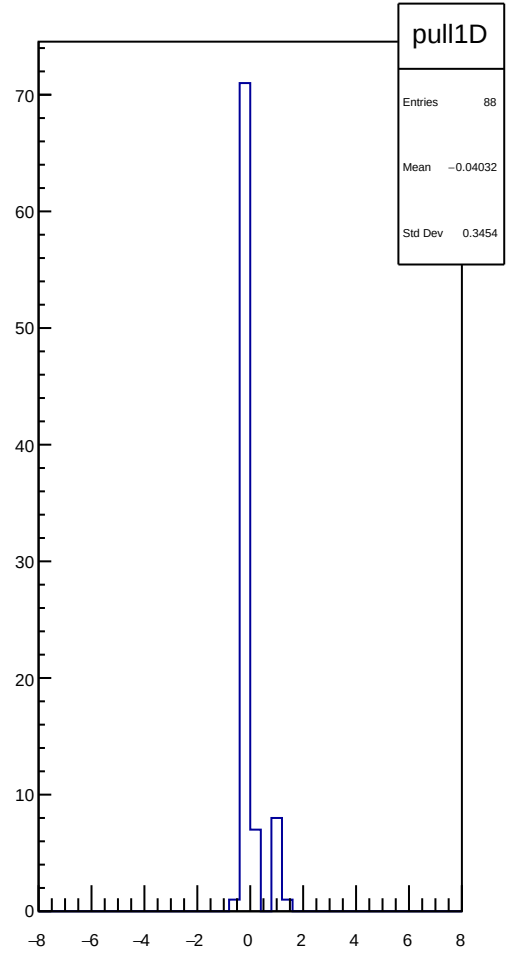

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.939 / 87
p0 27.01 ± 5.126
pull
Entries 88
Mean 184.5
Std Dev 0

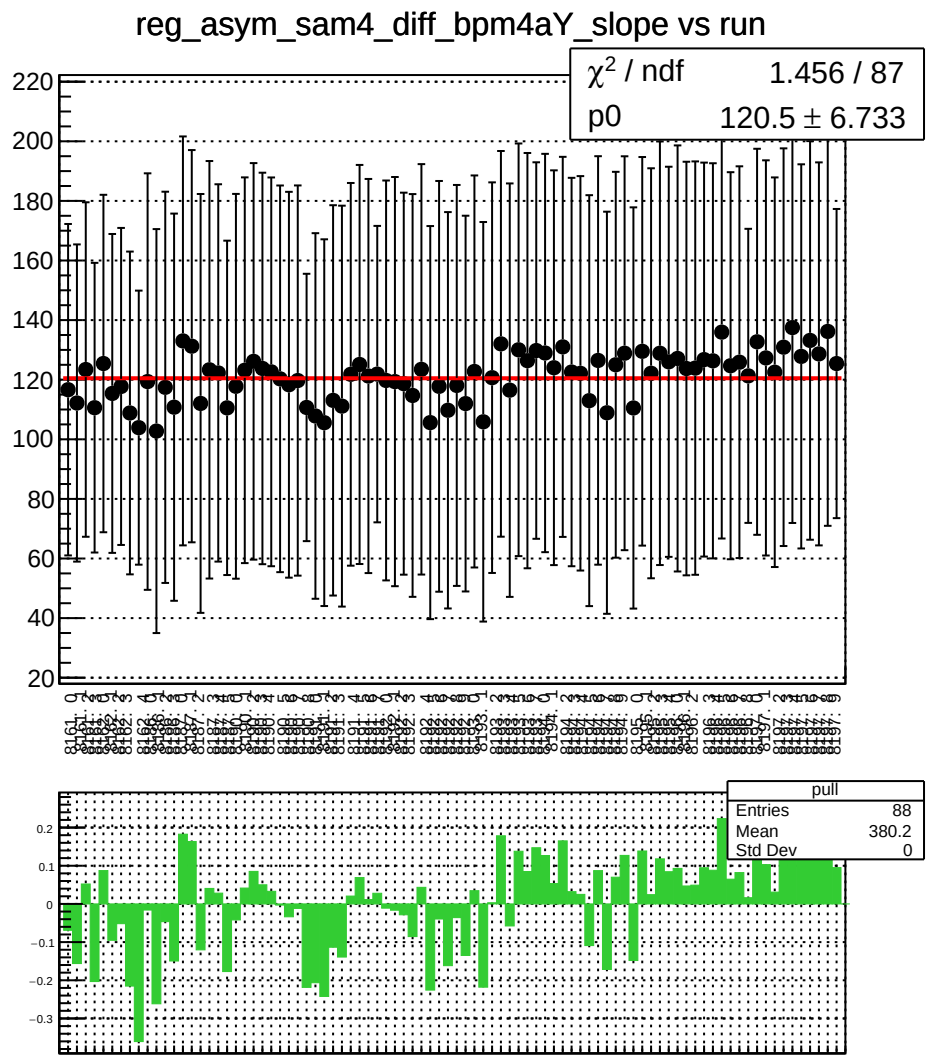

pull1D
Entries 88
Mean −0.003231
Std Dev 0.1484

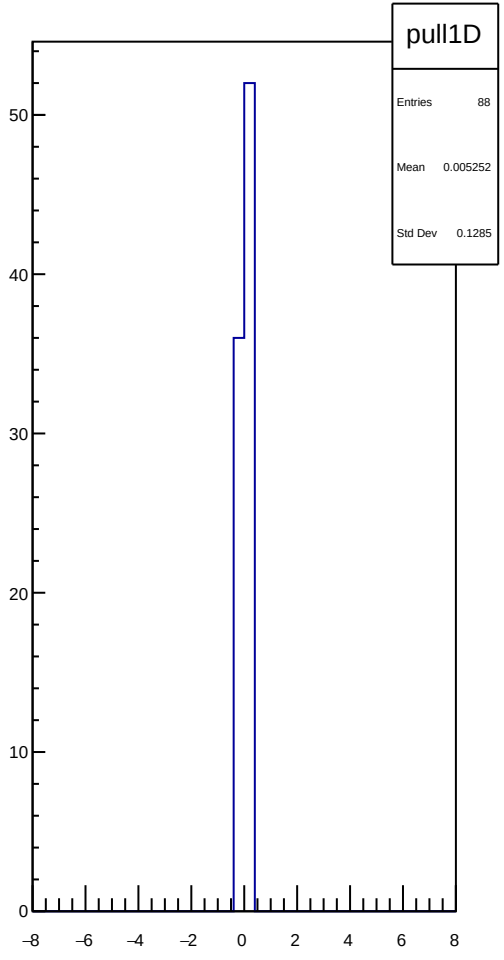

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 5.574 / 87
p0 0.1103 ± 0.2321
pull
Entries 88
Mean 370.7
Std Dev 0

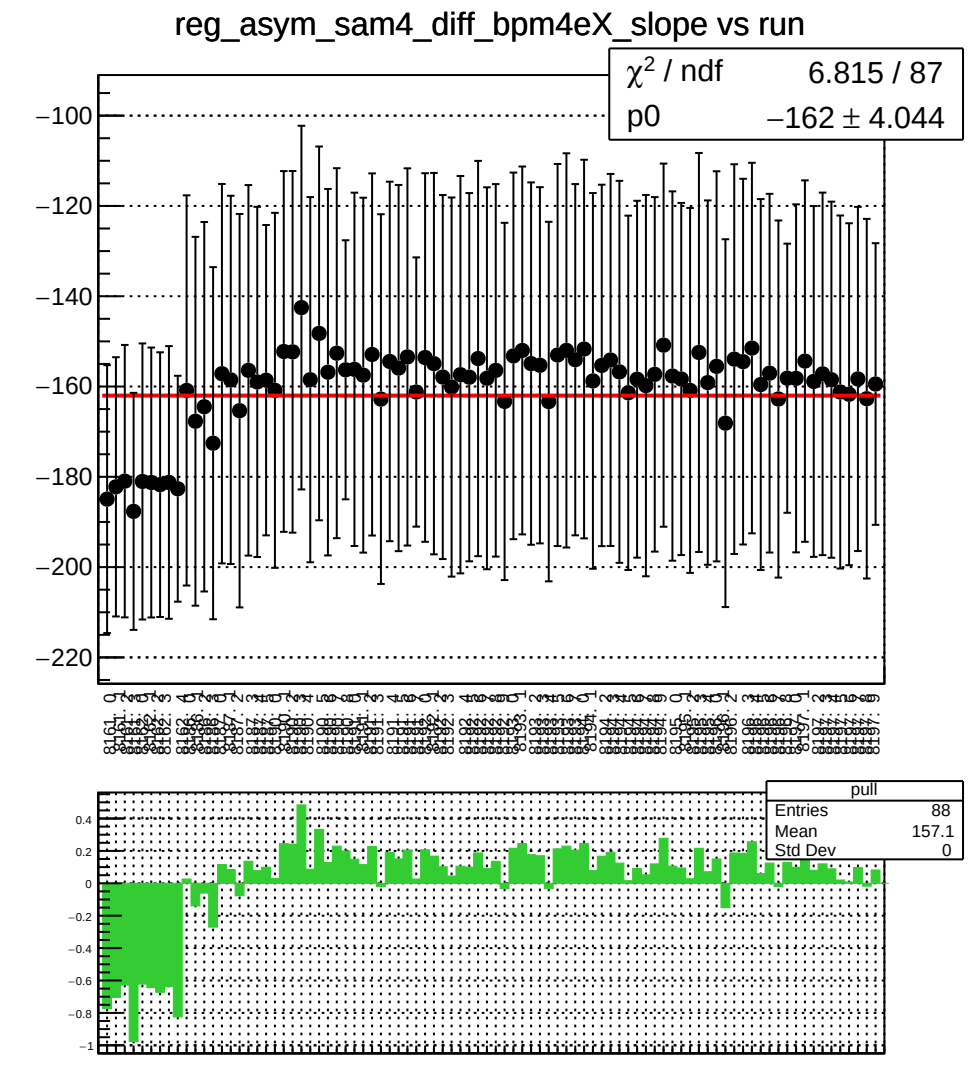

pull1D
Entries 88
Mean −0.008466
Std Dev 0.2515

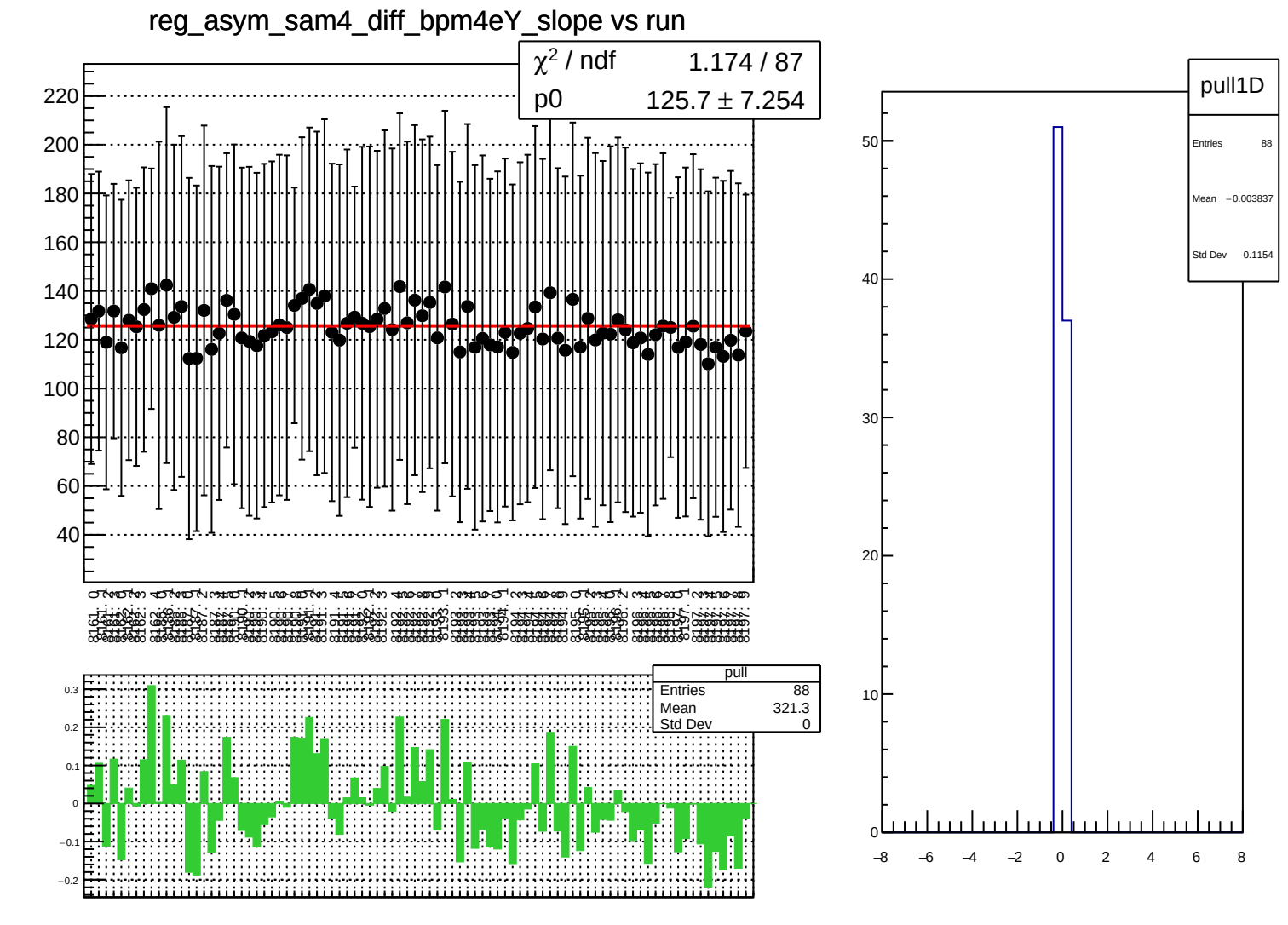

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 10.64 / 87
p0 −44.94 ± 4.041
pull
Entries 88
Mean 164.7
Std Dev 0

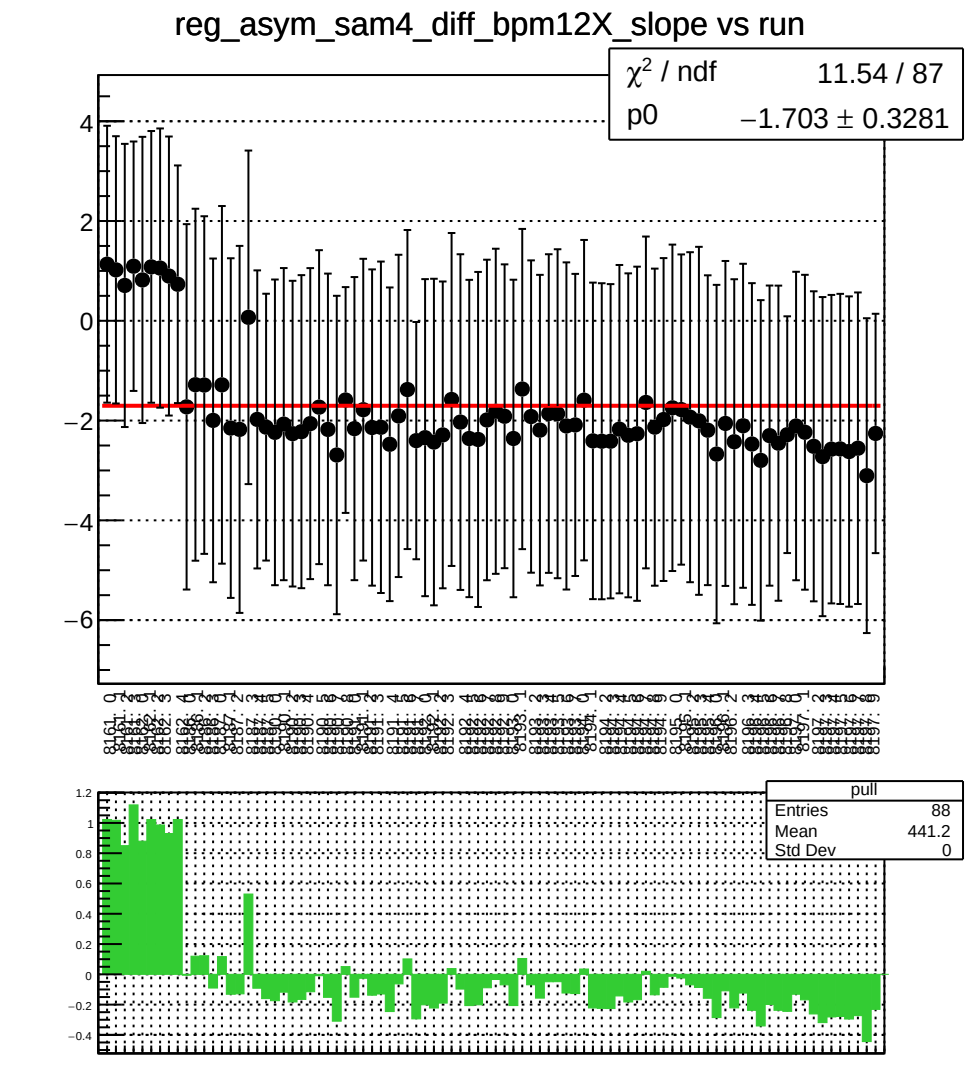

pull1D
Entries 88
Mean −0.04032
Std Dev 0.3454

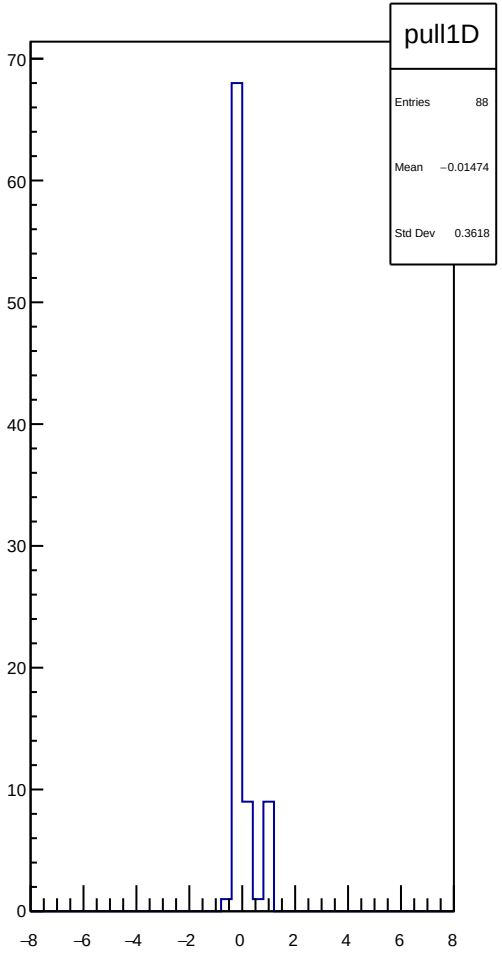

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.456 / 87
p0 120.5 ± 6.733
pull
Entries 88
Mean 380.2
Std Dev 0

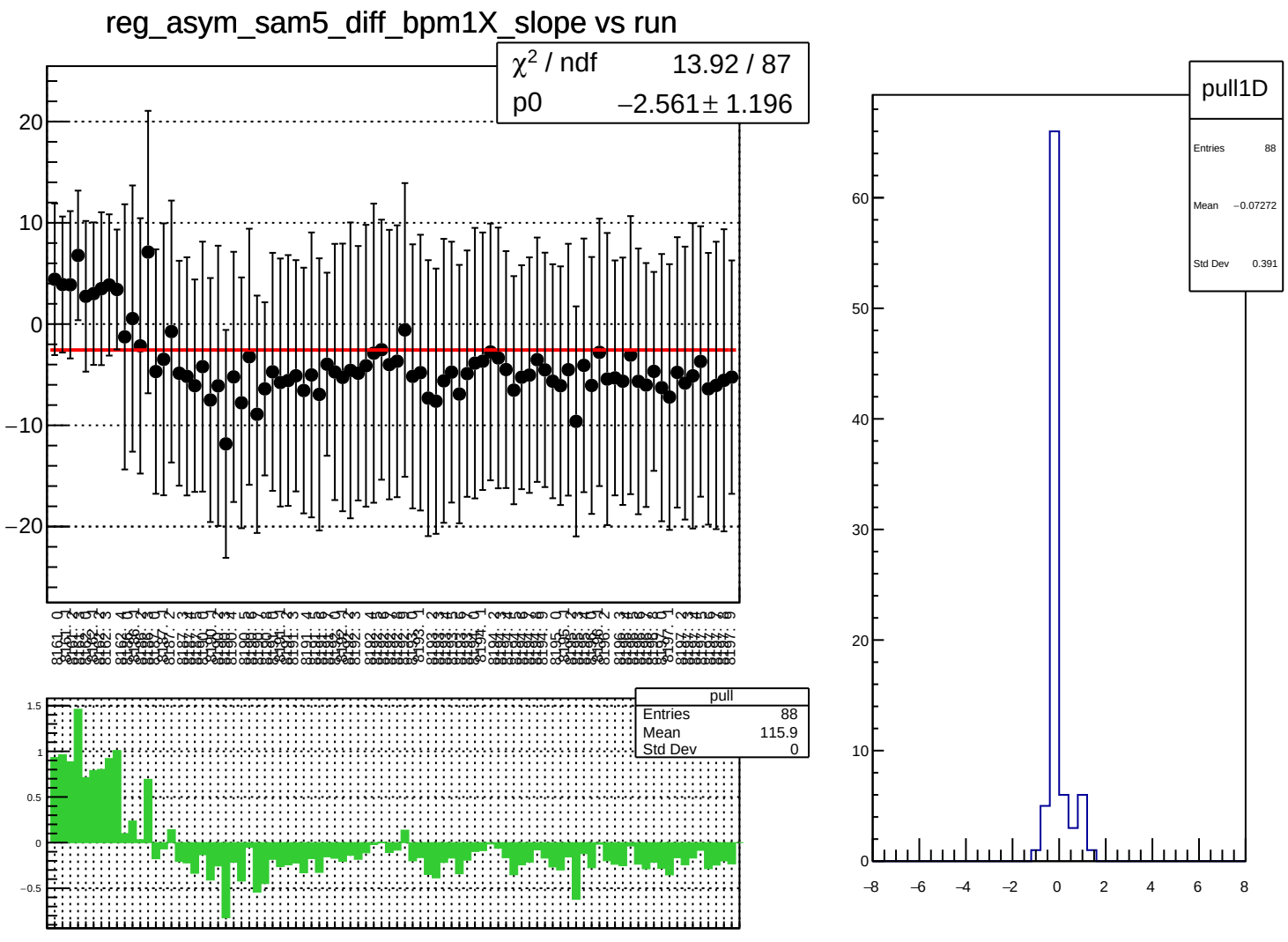

pull1D
Entries 88
Mean 0.005252
Std Dev 0.1285

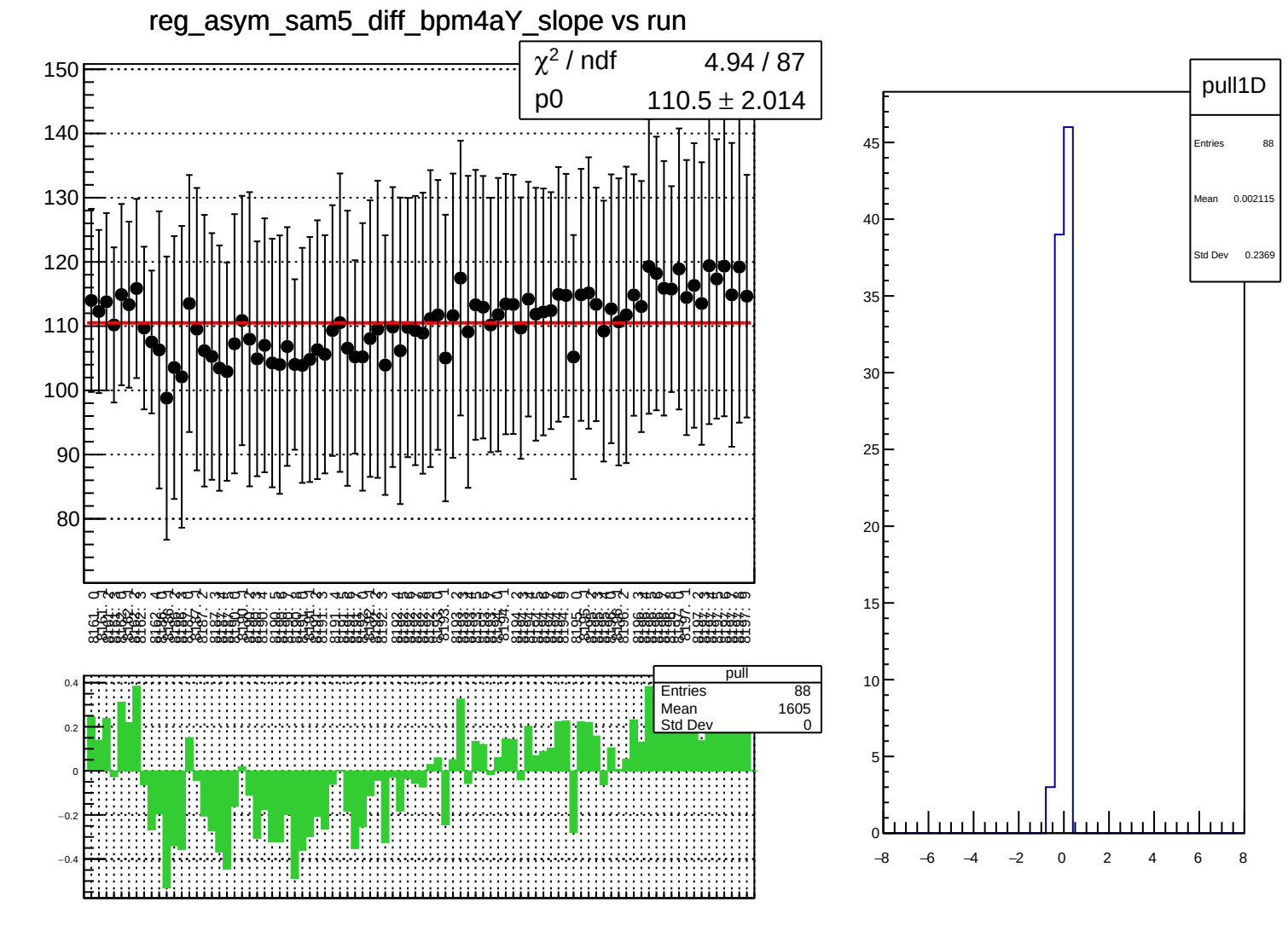

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 6.815 / 87
p0 −162 ± 4.044
pull
Entries 88
Mean 157.1
Std Dev 0
pull1D
Entries 88
Mean 0.02991
Std Dev 0.2767

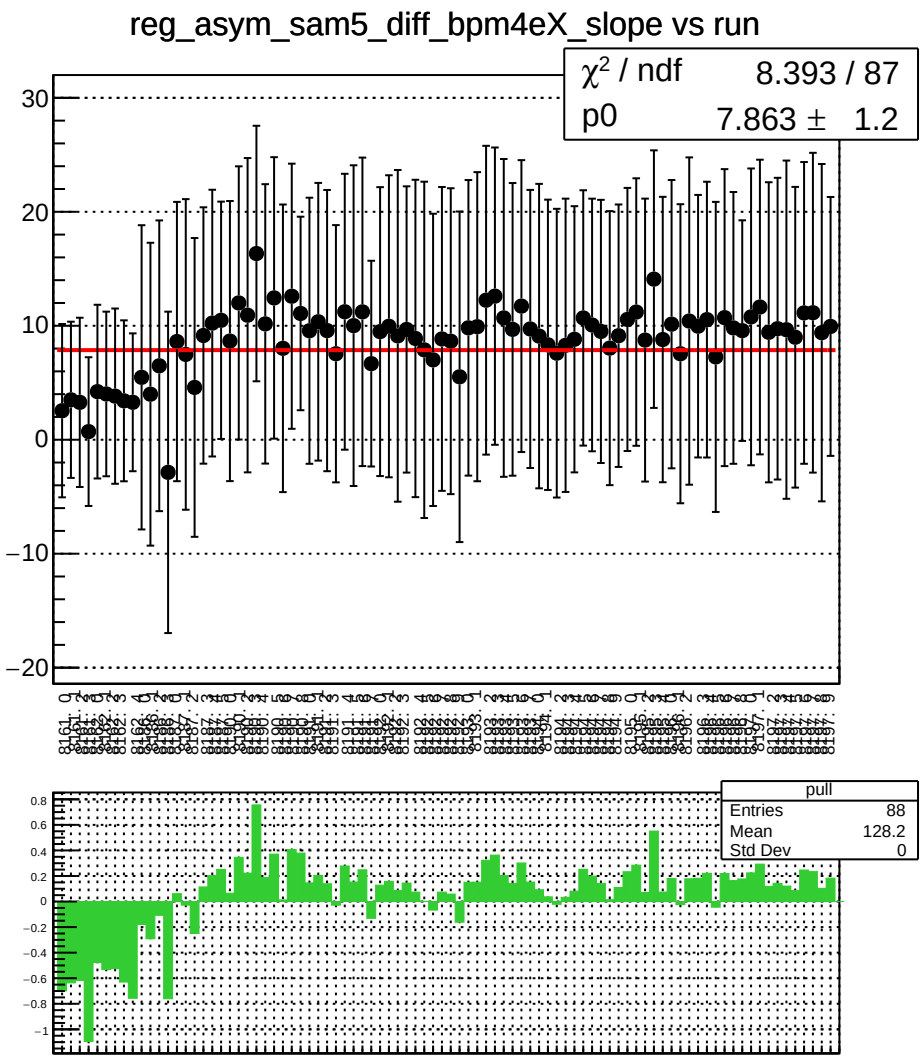

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.174 / 87
p0 125.7 ± 7.254
pull
Entries 88
Mean 321.3
Std Dev 0
pull1D
Entries 88
Mean −0.003837
Std Dev 0.1154

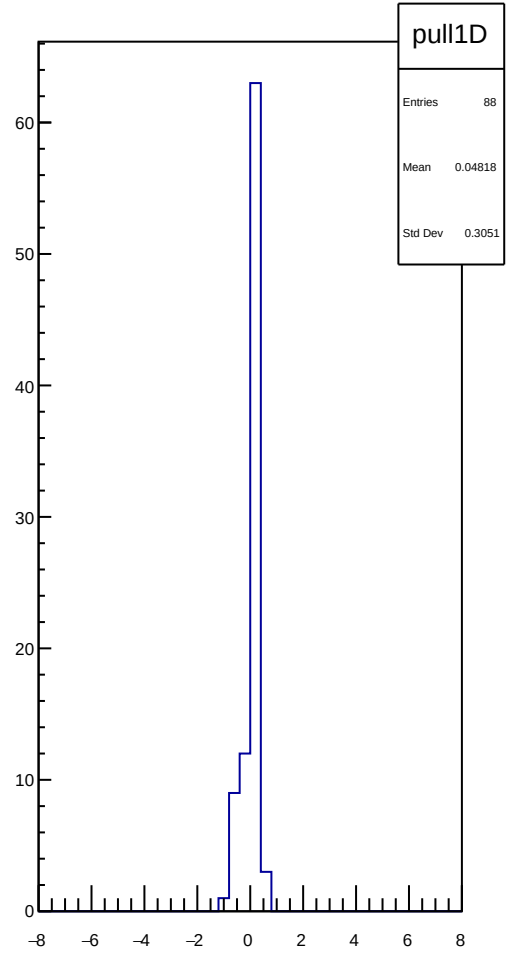

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 11.54 / 87
p0 −1.703 ± 0.3281
pull
Entries 88
Mean 441.2
Std Dev 0

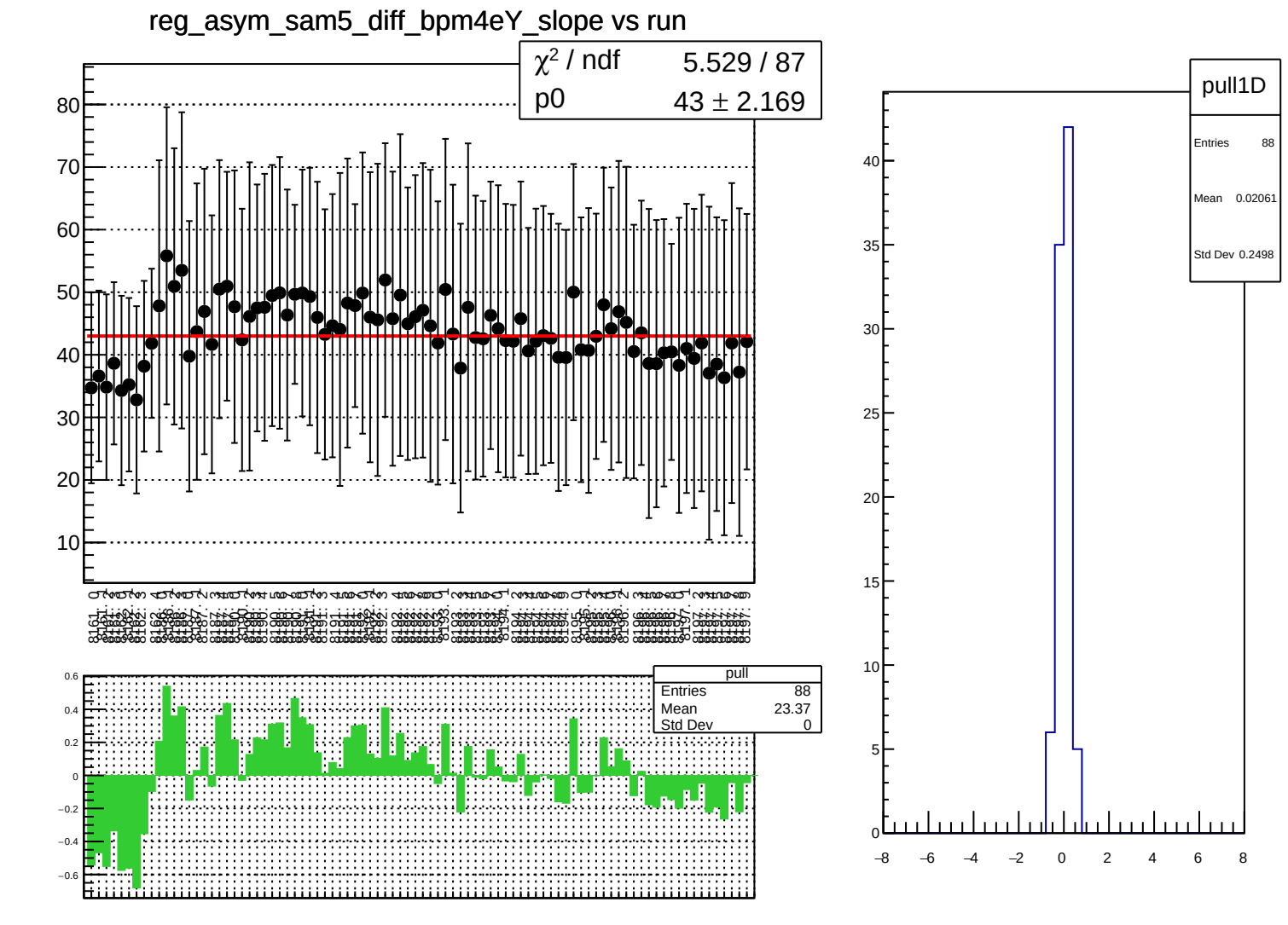

pull1D
Entries 88
Mean −0.01474
Std Dev 0.3618

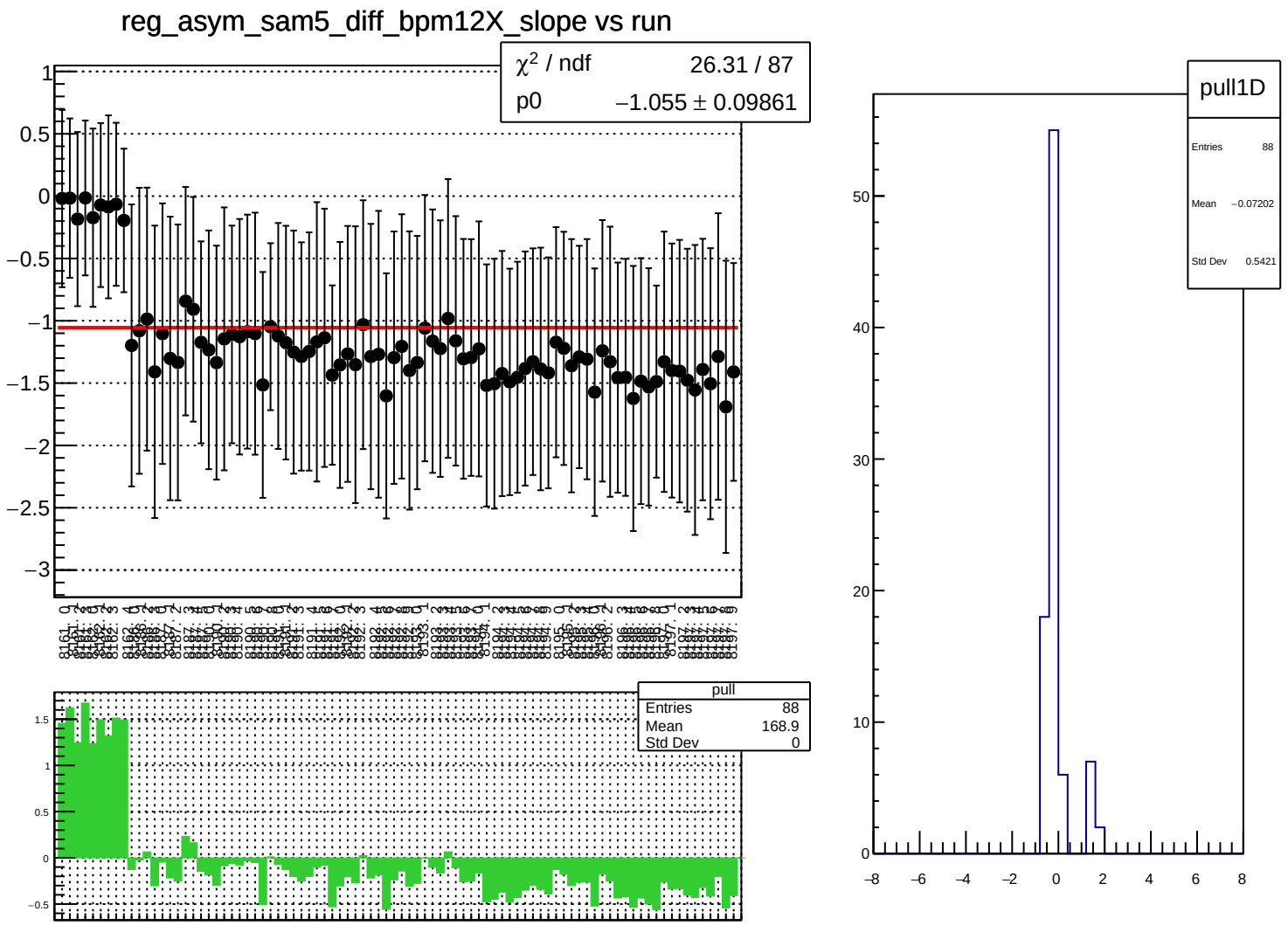

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 13.92 / 87
p0 −2.561 ± 1.196
pull
Entries 88
Mean 115.9
Std Dev 0
pull1D
Entries 88
Mean −0.07272
Std Dev 0.391

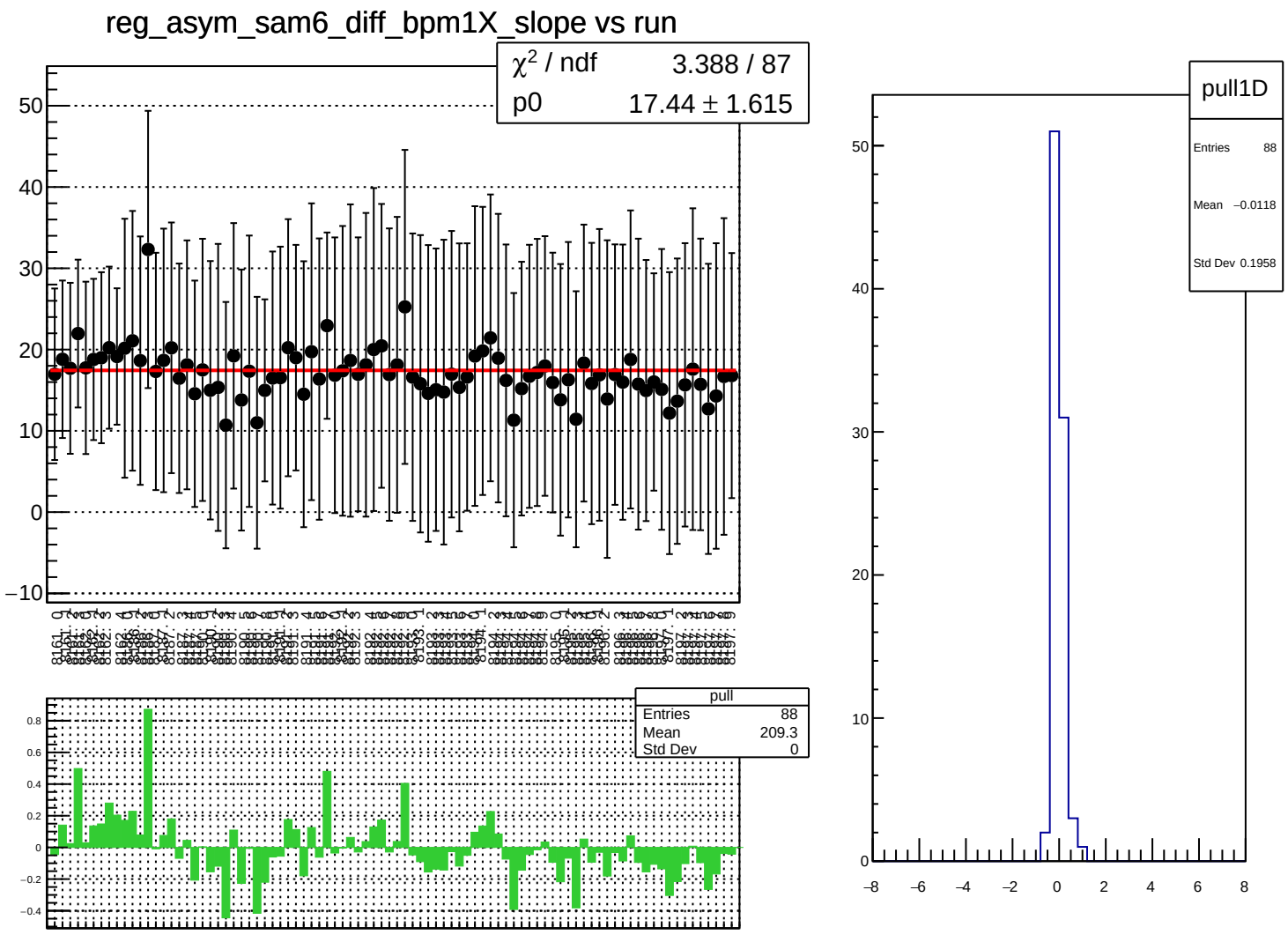

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 4.94 / 87
p0 110.5 ± 2.014
150
140
130
120
110
100
90
80
pull
Entries 88
Mean 1605
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.002115
Std Dev 0.2369
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

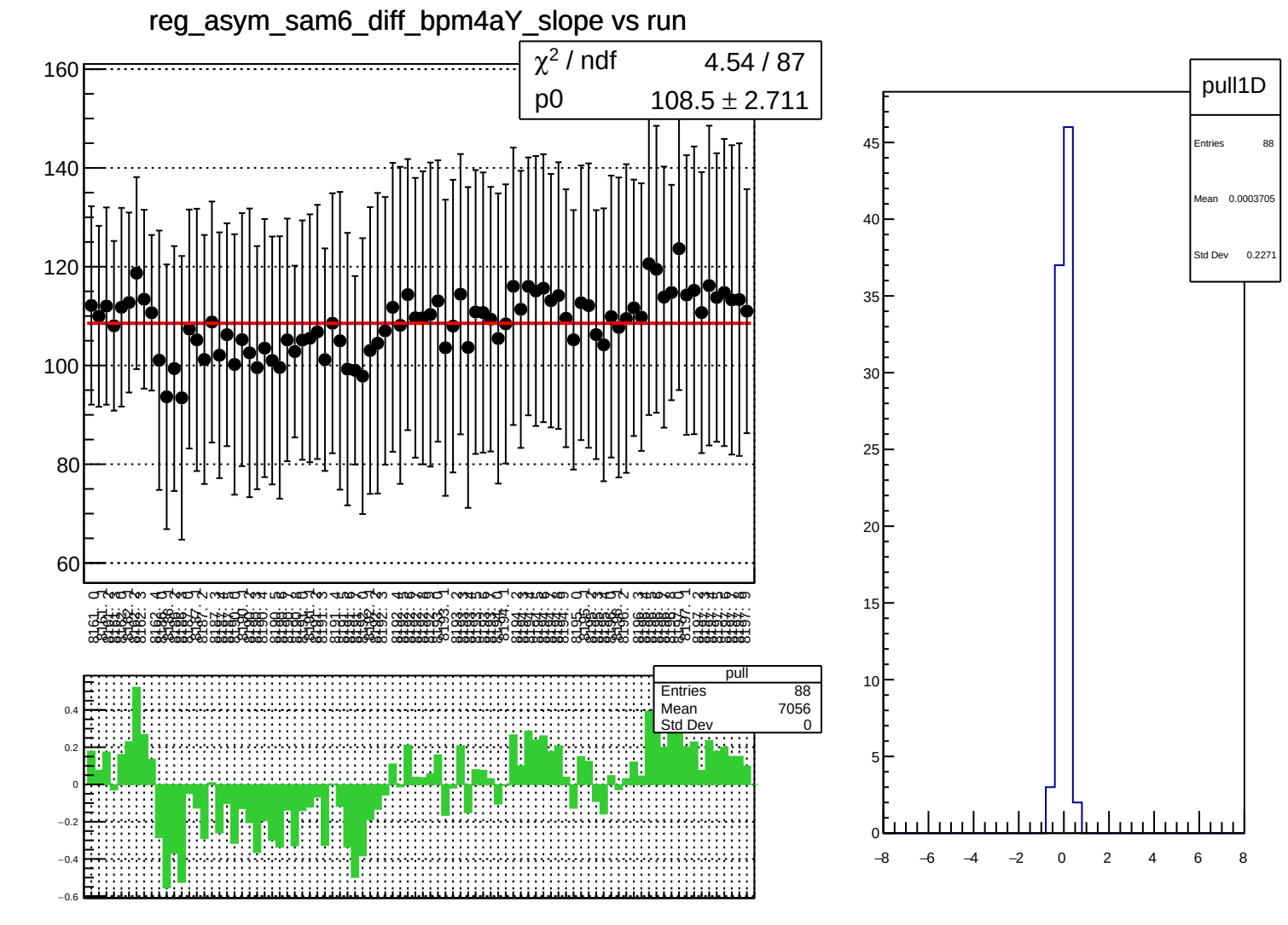

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 8.393 / 87
p0 7.863 ± 1.2
pull
Entries 88
Mean 128.2
Std Dev 0

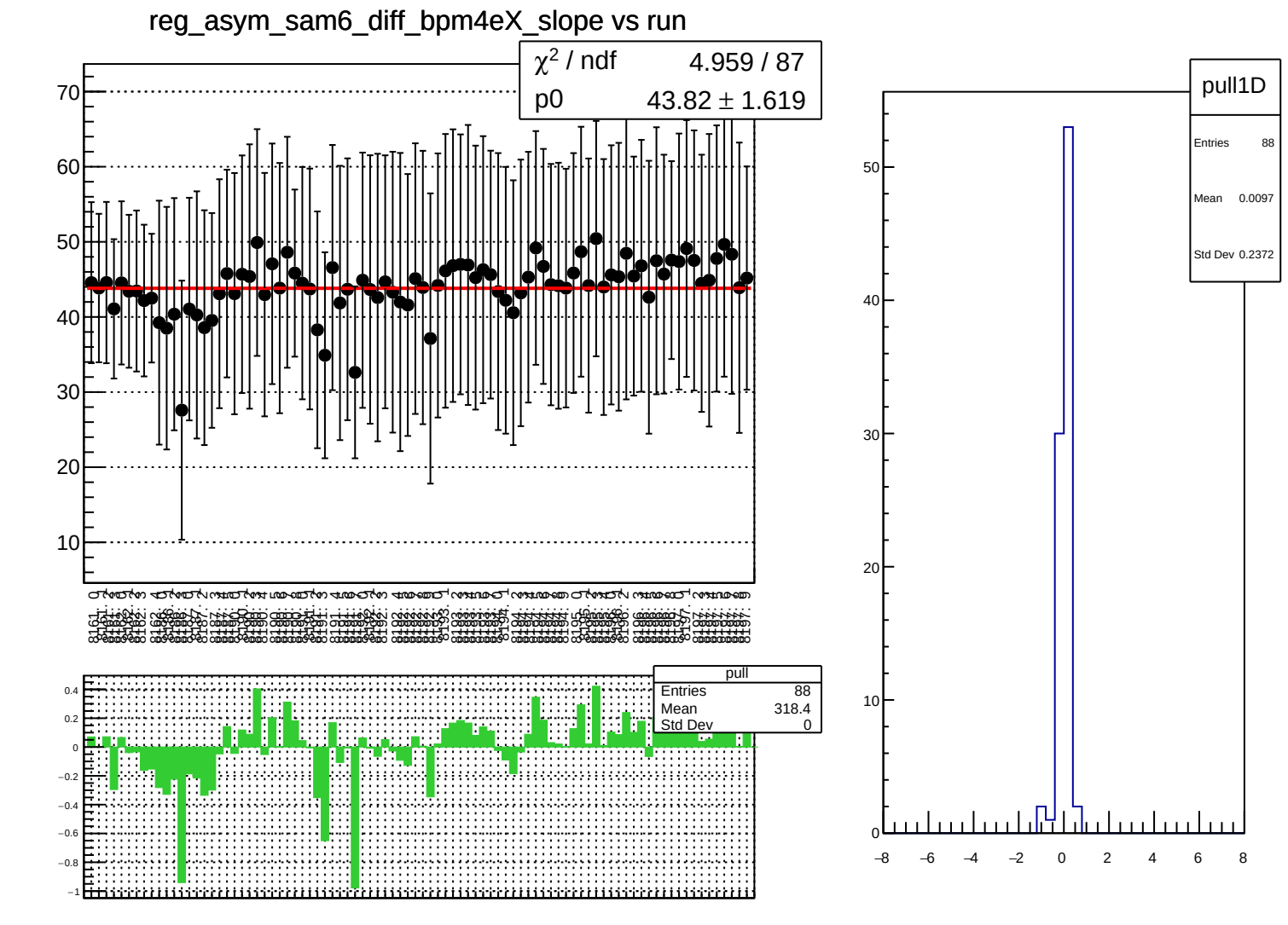

pull1D
Entries 88
Mean 0.04818
Std Dev 0.3051

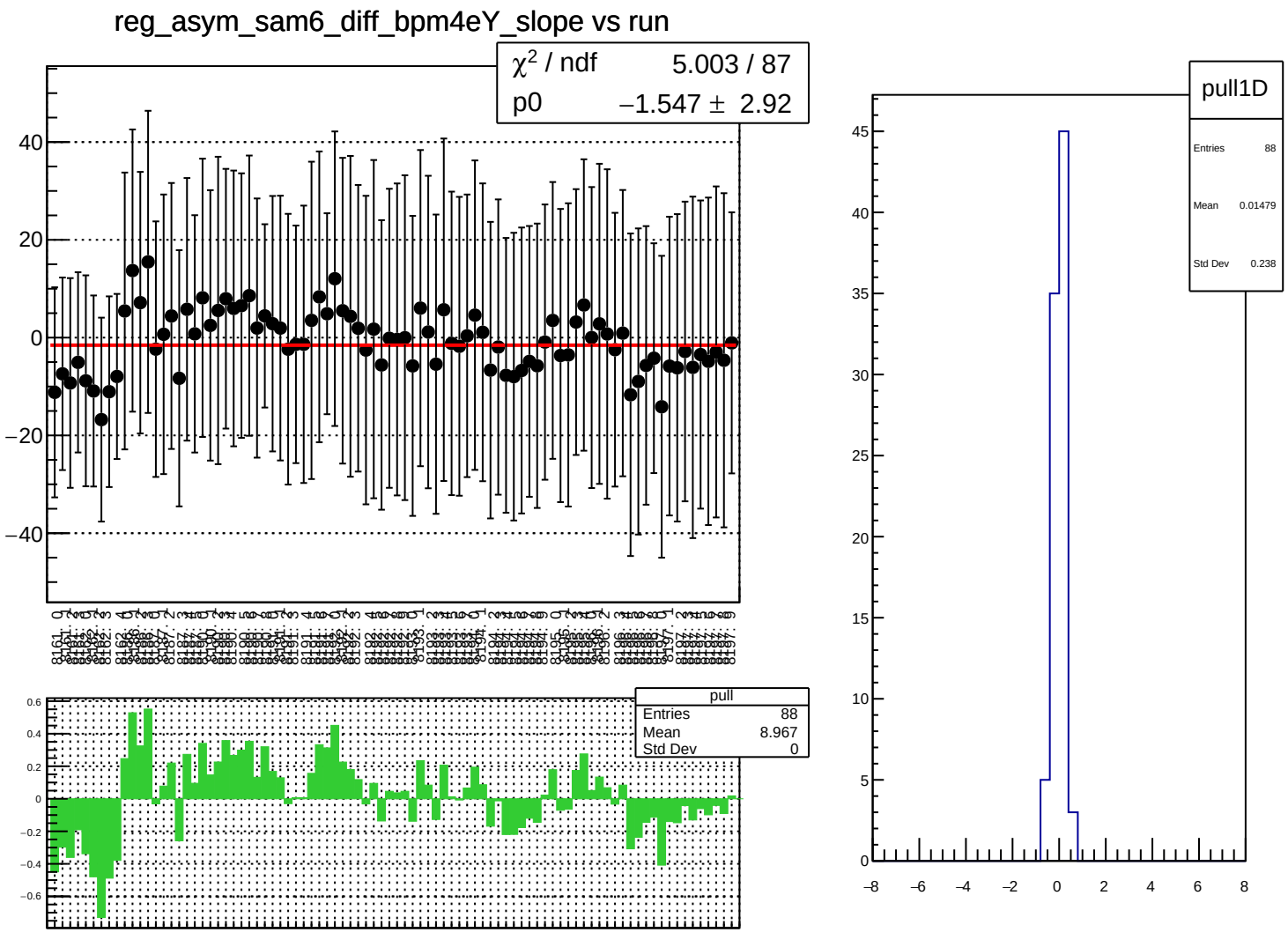

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 5.529 / 87
p0 43 ± 2.169
pull
Entries 88
Mean 23.37
Std Dev 0
pull1D
Entries 88
Mean 0.02061
Std Dev 0.2498

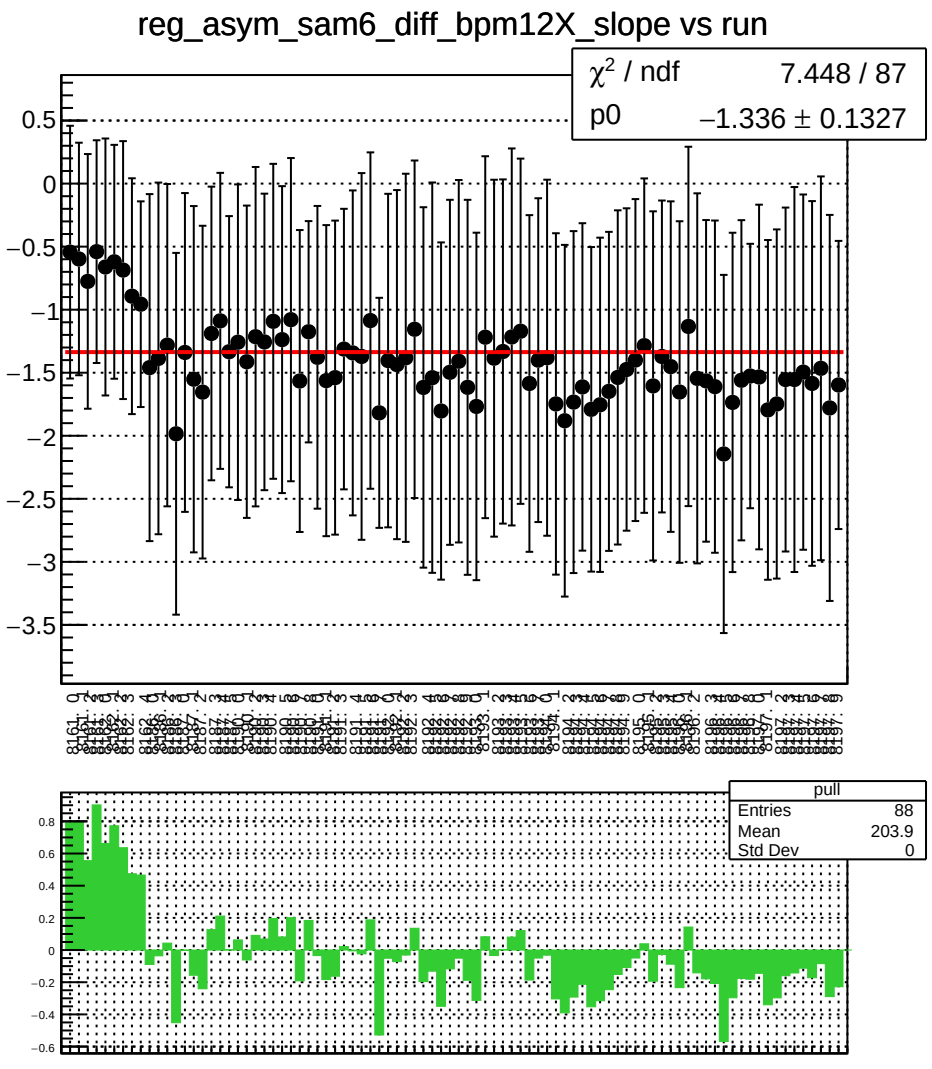

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 26.31 / 87
p0 −1.055 ± 0.09861
pull
Entries 88
Mean 168.9
Std Dev 0
pull1D
Entries 88
Mean −0.07202
Std Dev 0.5421

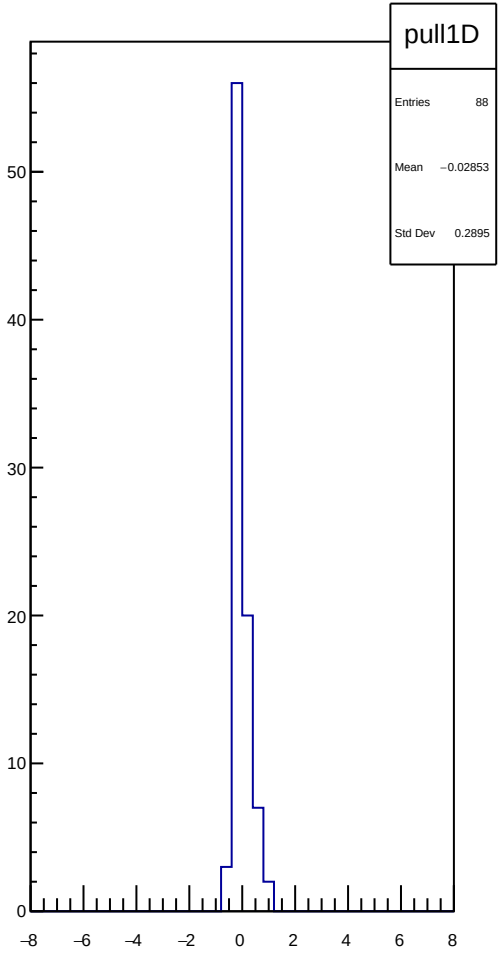

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.388 / 87
p0 17.44 ± 1.615
pull
Entries 88
Mean 209.3
Std Dev 0
pull1D
Entries 88
Mean −0.0118
Std Dev 0.1958

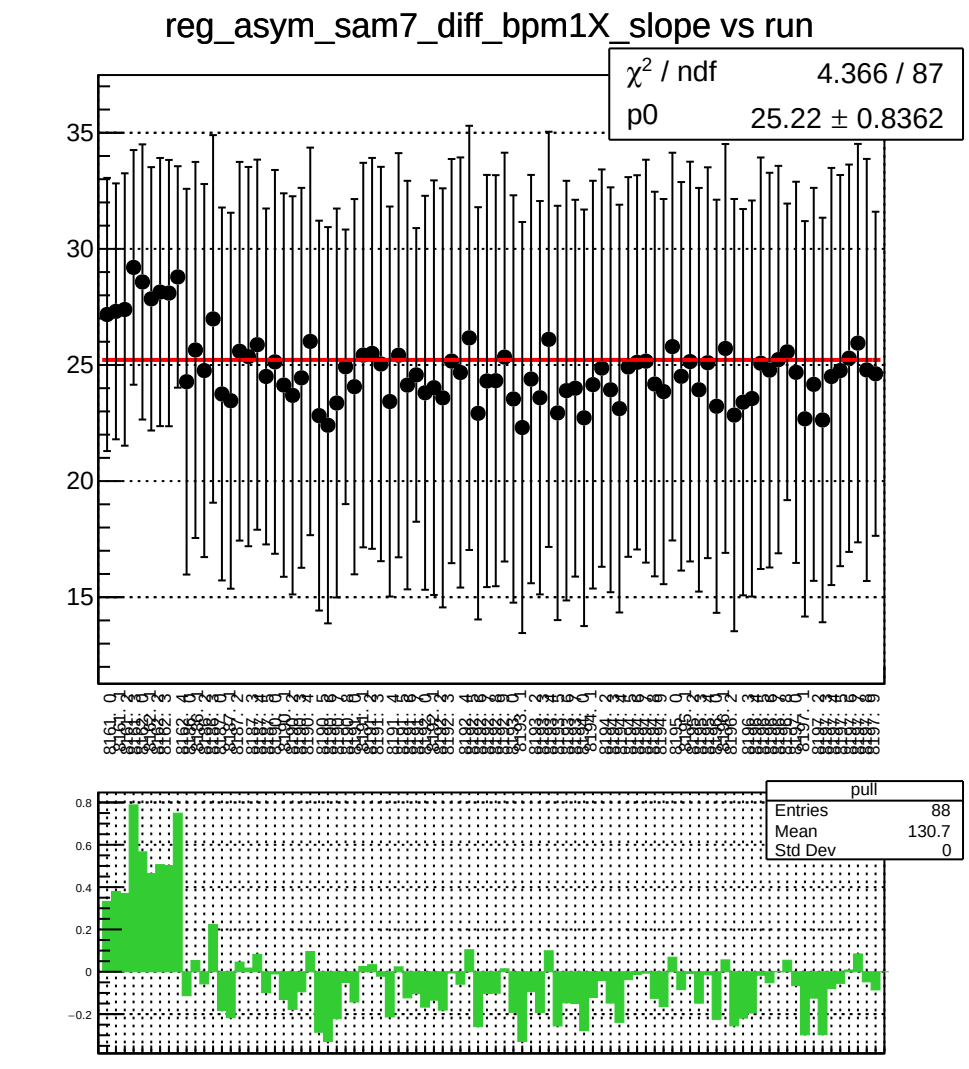

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.54 / 87
p0 108.5 ± 2.711
pull
Entries 88
Mean 7056
Std Dev 0
pull1D
Entries 88
Mean 0.0003705
Std Dev 0.2271

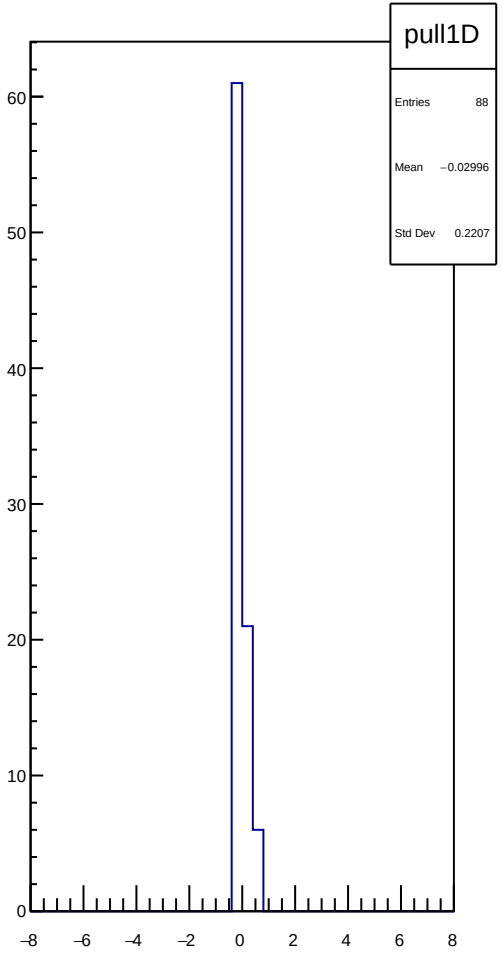

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 4.959 / 87
p0 43.82 ± 1.619
pull
Entries 88
Mean 318.4
Std Dev 0
pull1D
Entries 88
Mean 0.0097
Std Dev 0.2372

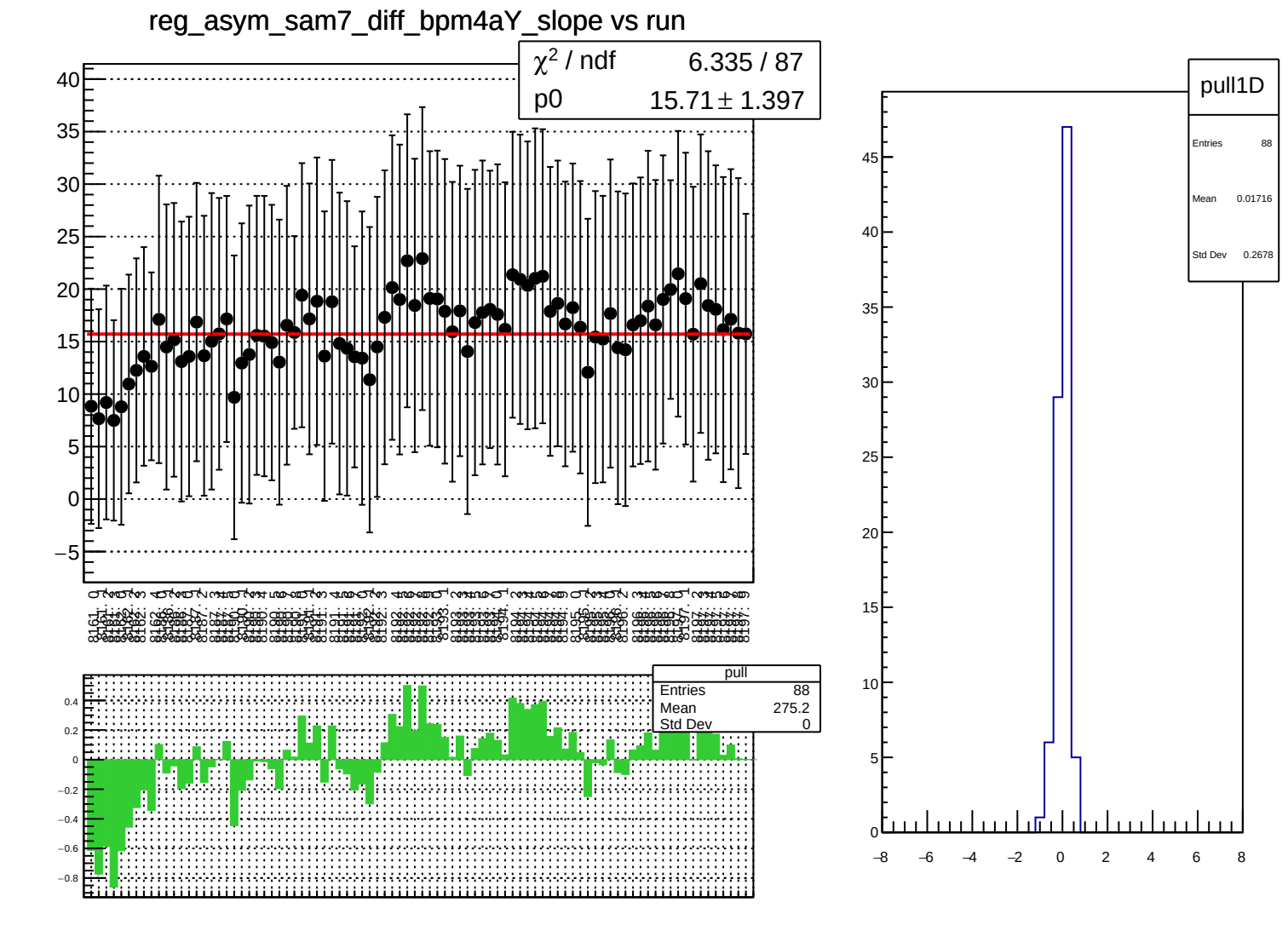

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 5.003 / 87
p0 −1.547 ± 2.92
pull
Entries 88
Mean 8.967
Std Dev 0
pull1D
Entries 88
Mean 0.01479
Std Dev 0.238

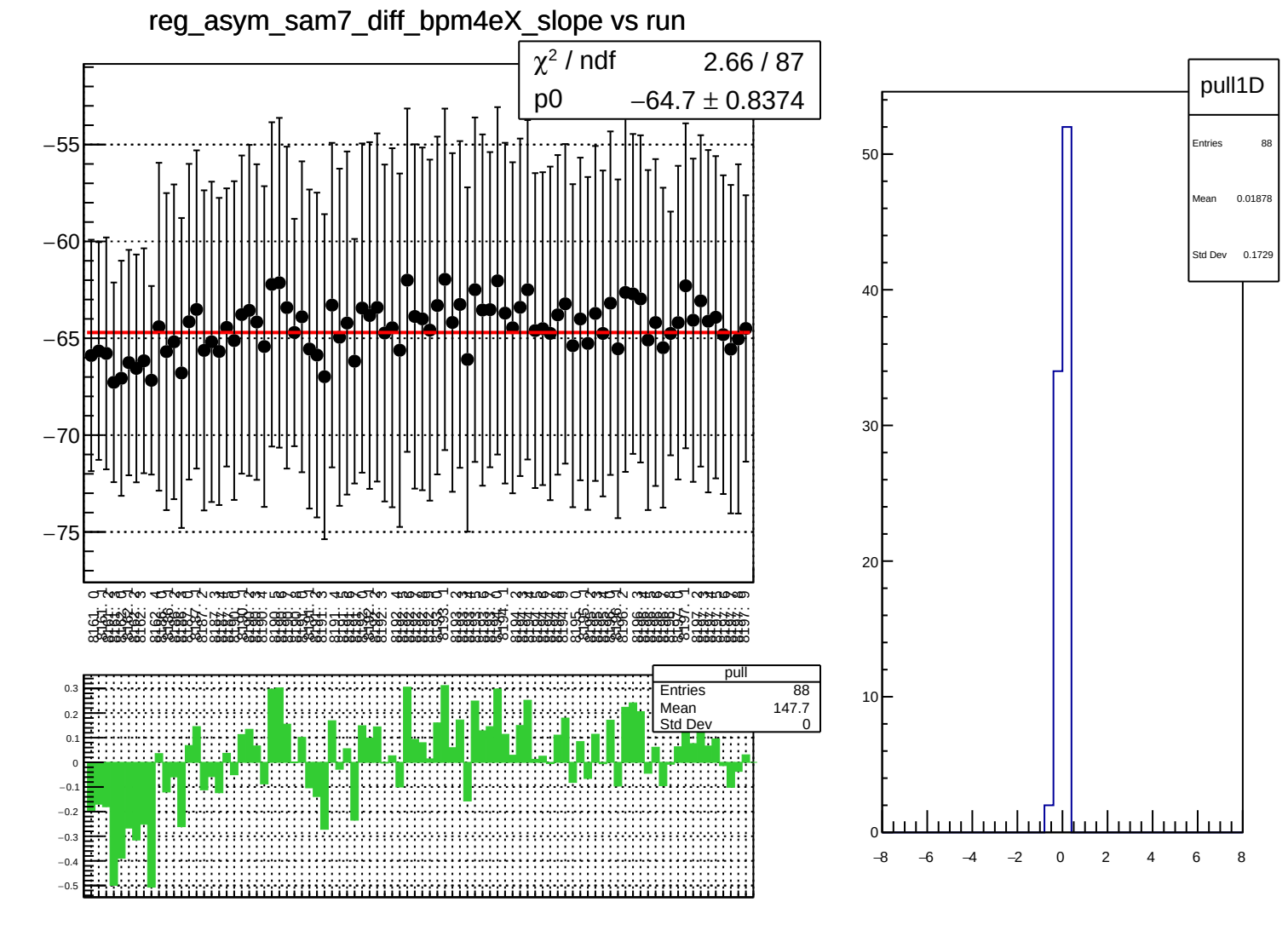

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 7.448 / 87
p0 −1.336 ± 0.1327
pull
Entries 88
Mean 203.9
Std Dev 0

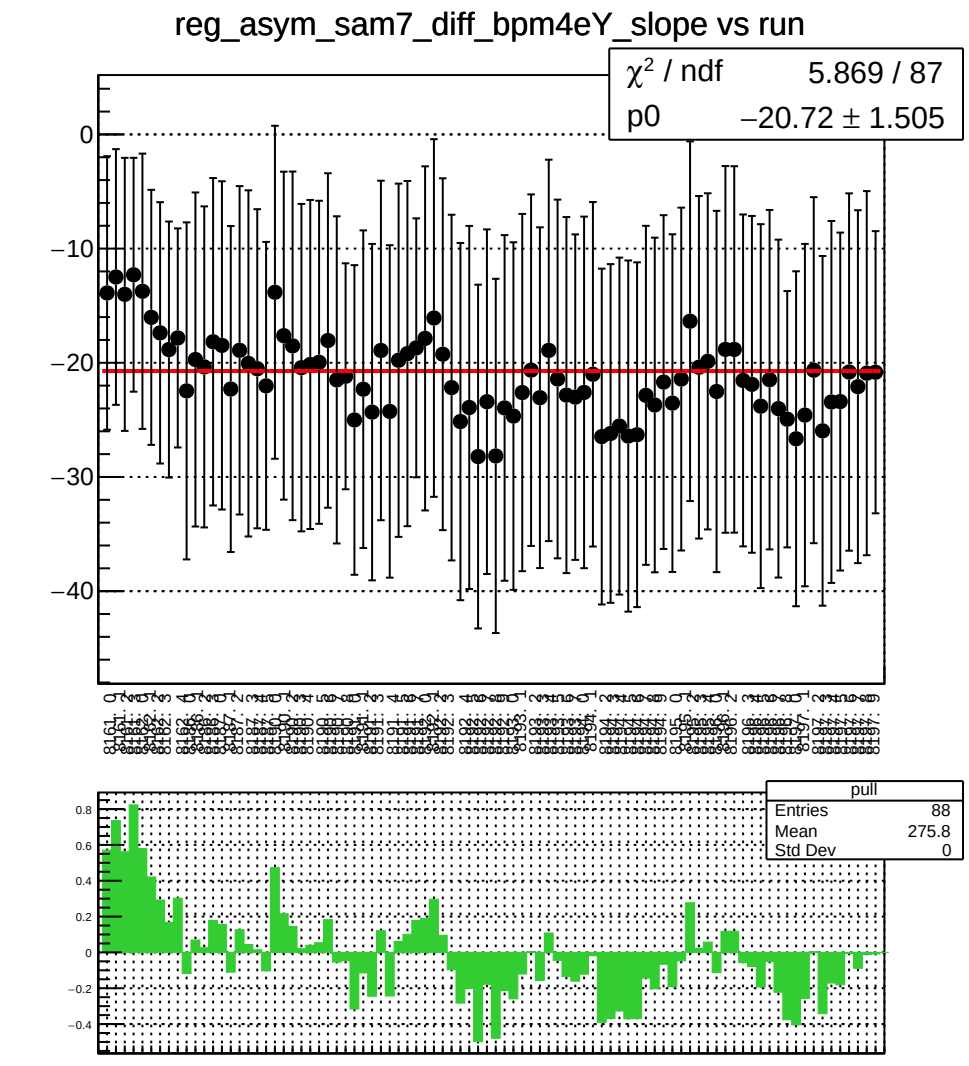

pull1D
Entries 88
Mean −0.02853
Std Dev 0.2895

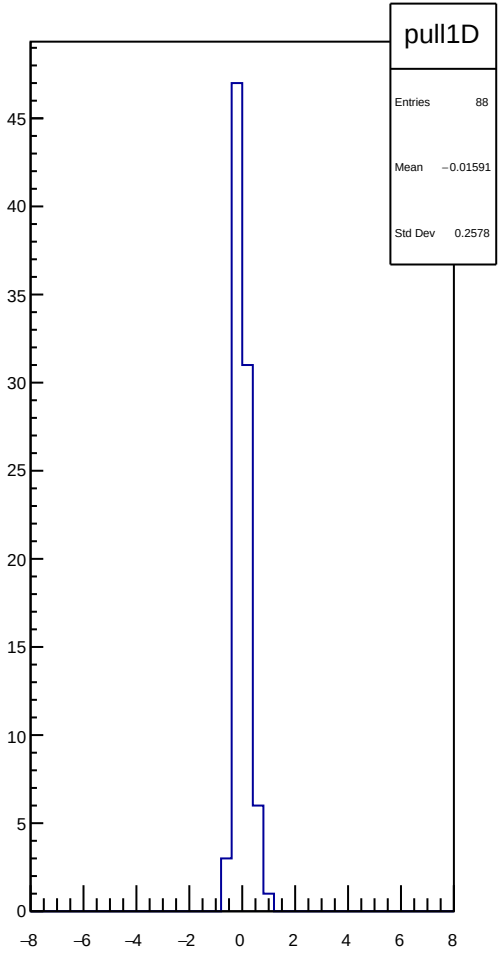

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 4.366 / 87
p0 25.22 ± 0.8362
pull
Entries 88
Mean 130.7
Std Dev 0

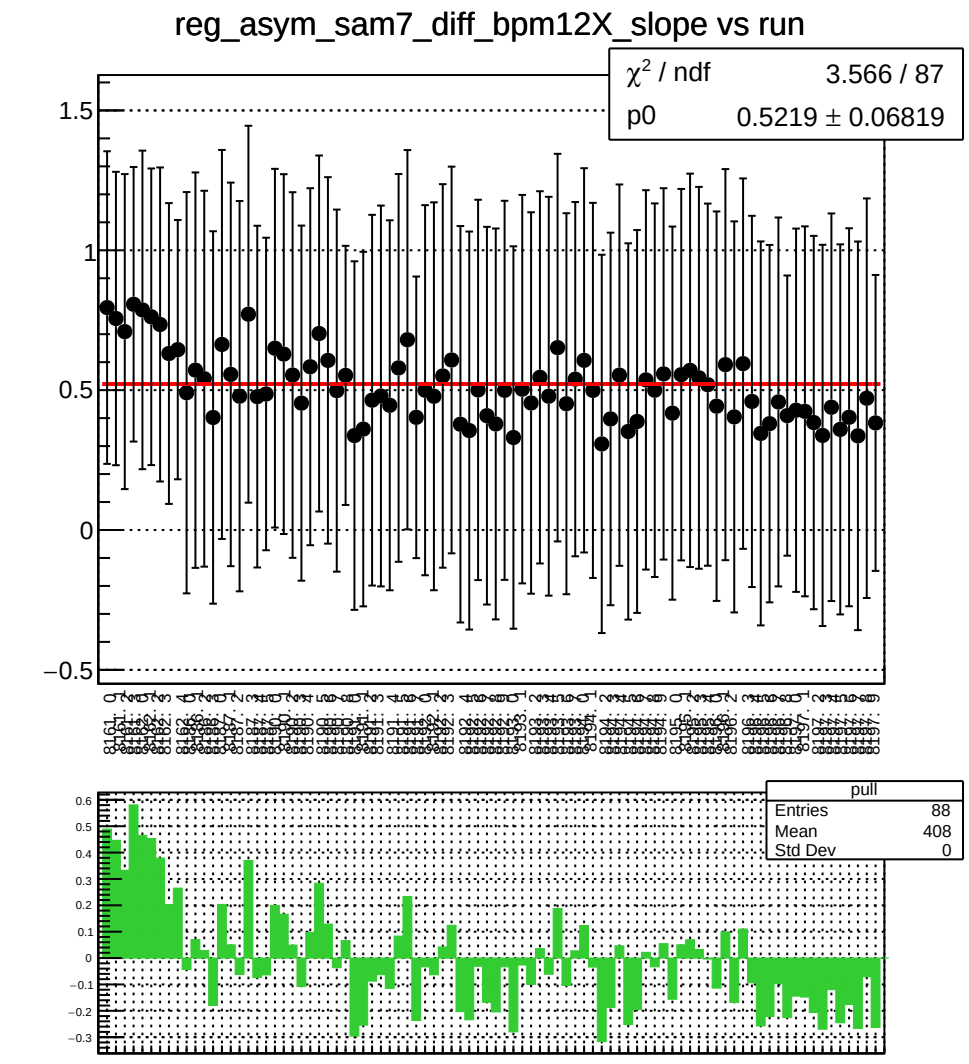

pull1D
Entries 88
Mean −0.02996
Std Dev 0.2207

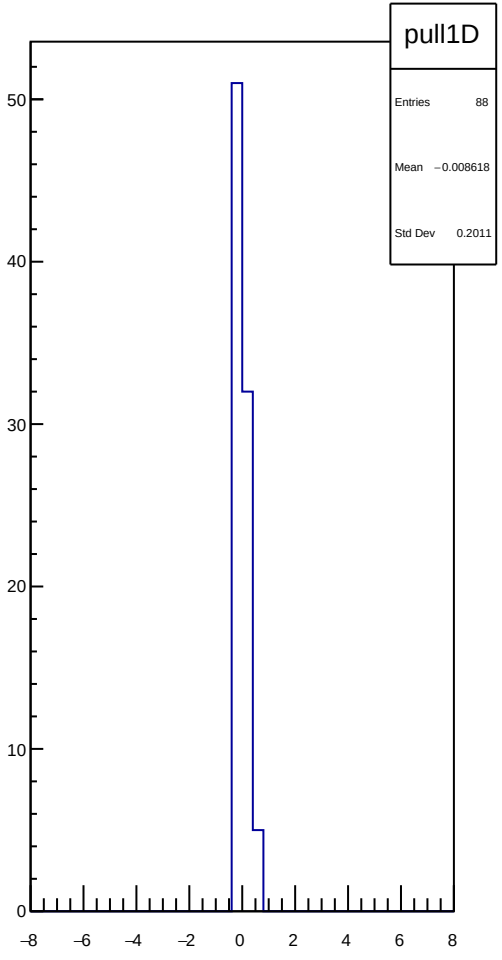

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 6.335 / 87
p0 15.71 ± 1.397
pull
Entries 88
Mean 275.2
Std Dev 0
pull1D
Entries 88
Mean 0.01716
Std Dev 0.2678

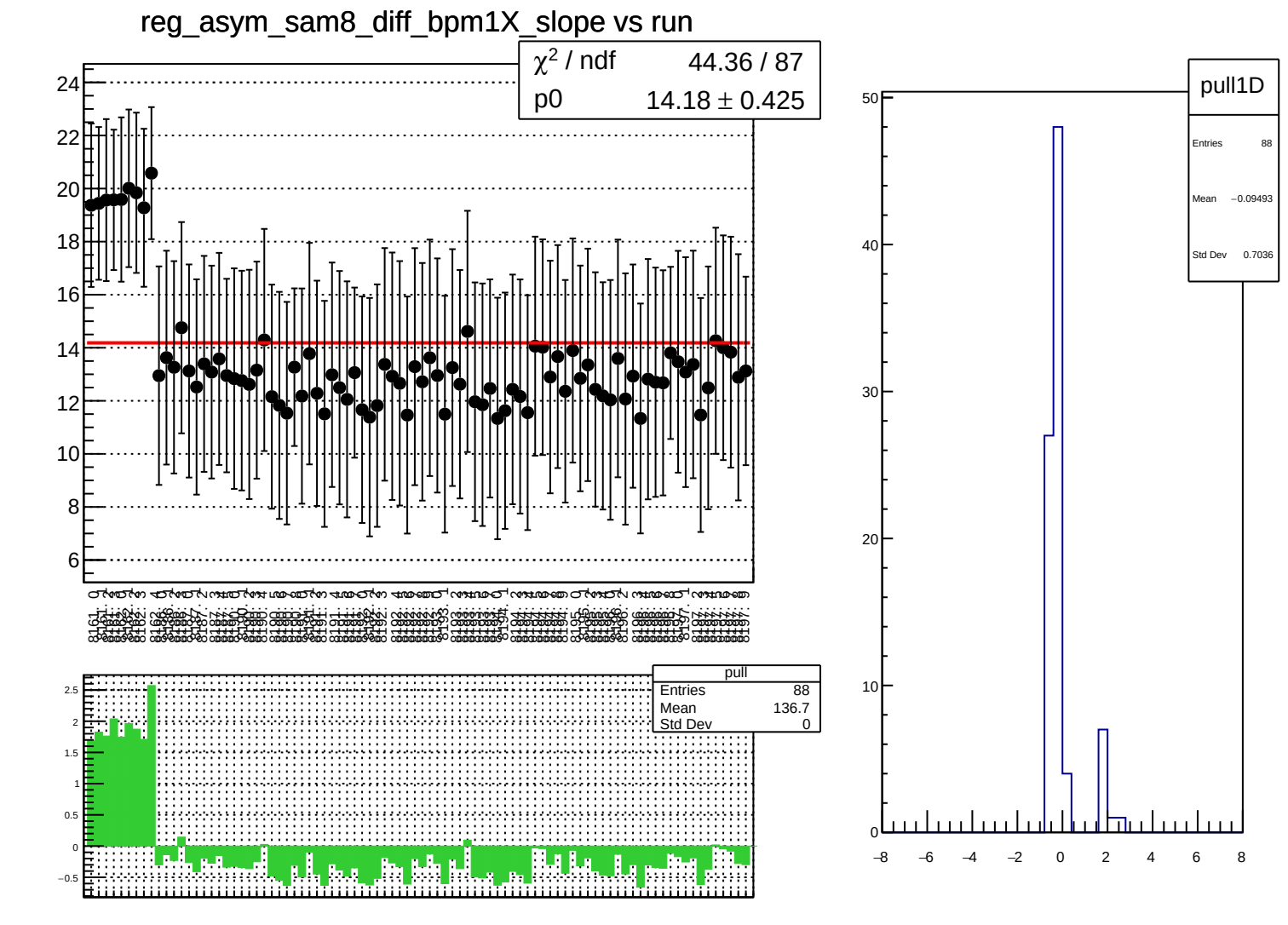

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 2.66 / 87
p0 −64.7 ± 0.8374
−55
−60
−65
−70
−75
pull
Entries 88
Mean 147.7
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 88
Mean 0.01878
Std Dev 0.1729
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

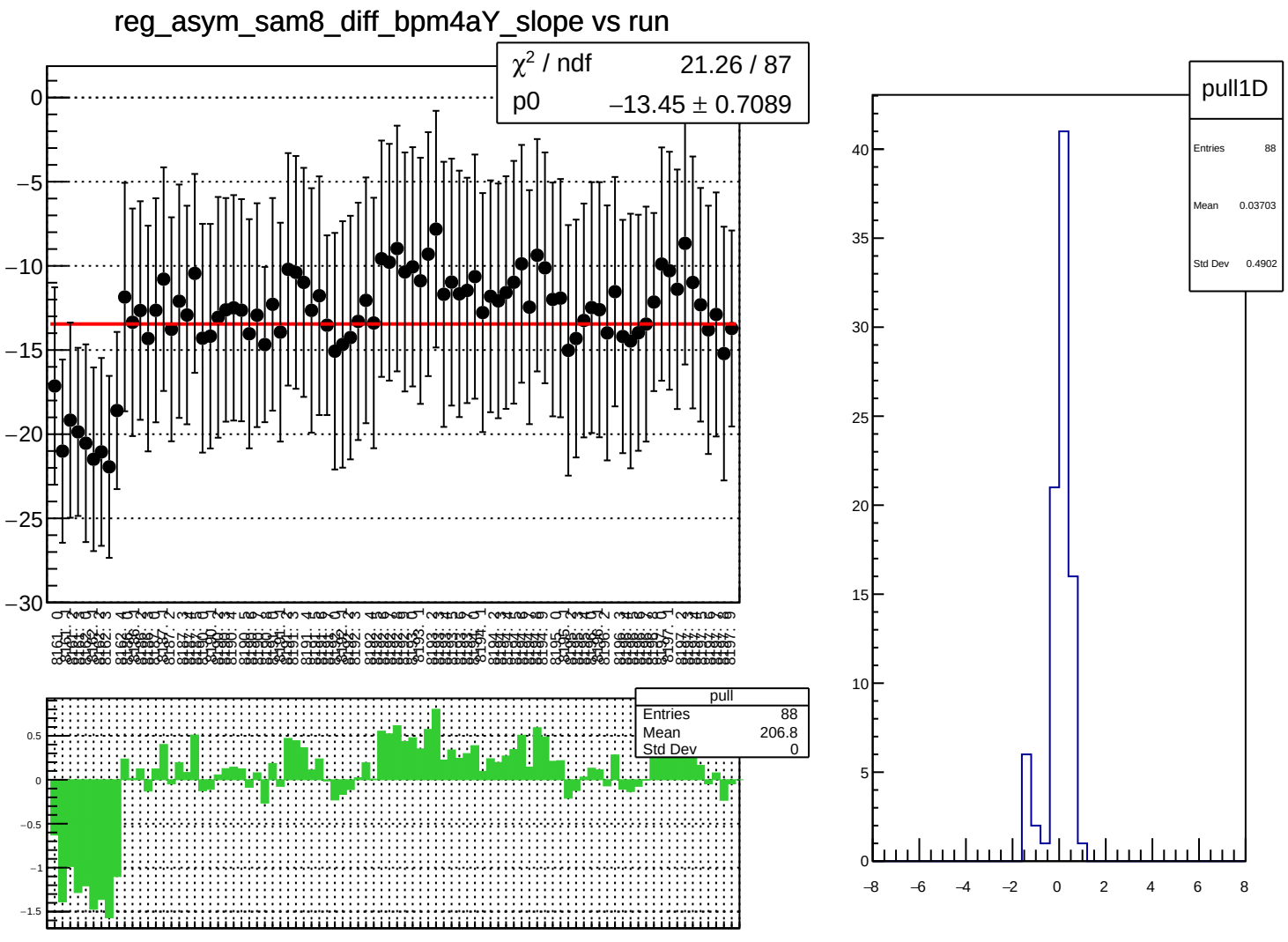

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 5.869 / 87
p0 −20.72 ± 1.505
pull
Entries 88
Mean 275.8
Std Dev 0

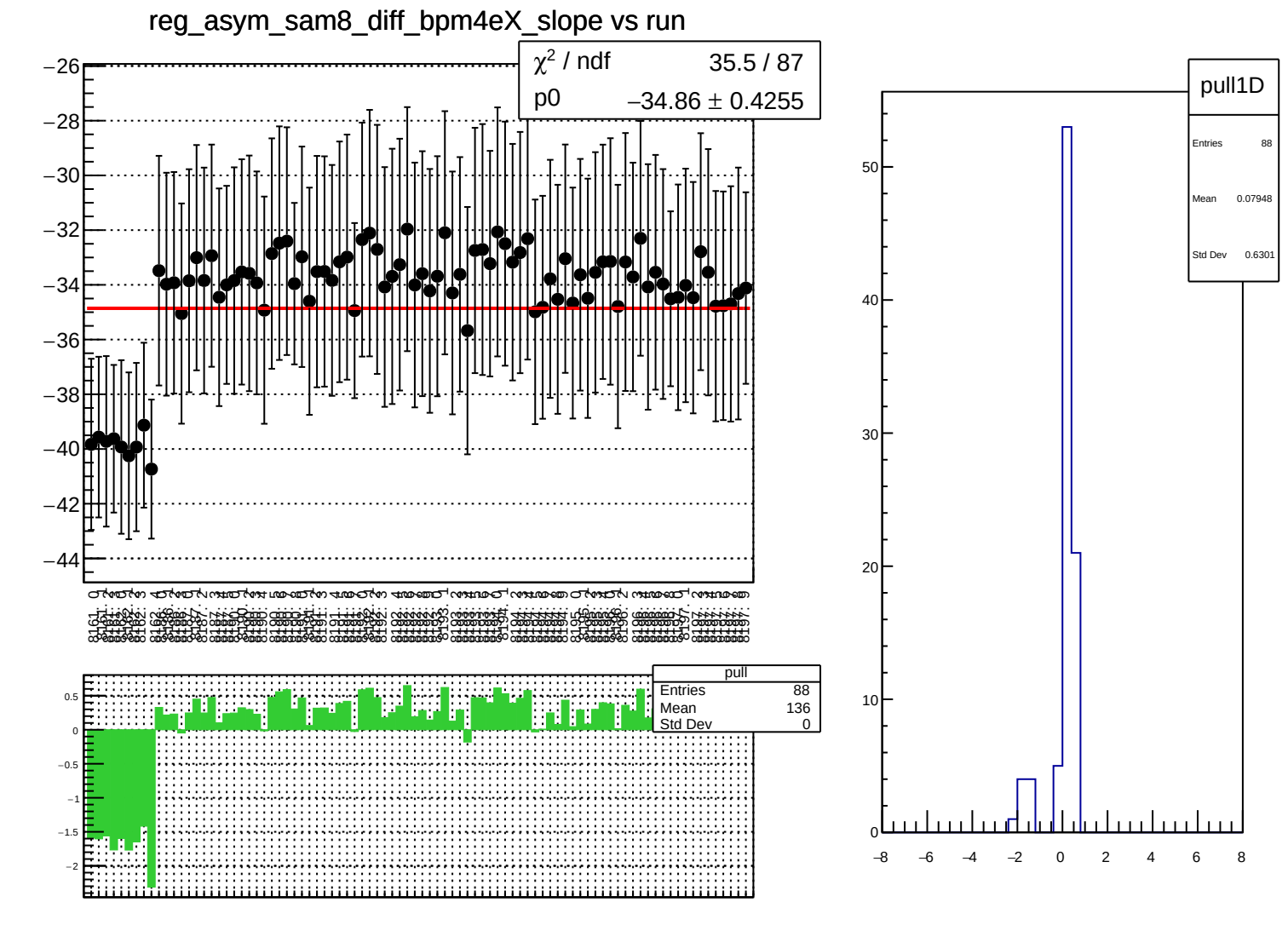

pull1D
Entries 88
Mean −0.01591
Std Dev 0.2578

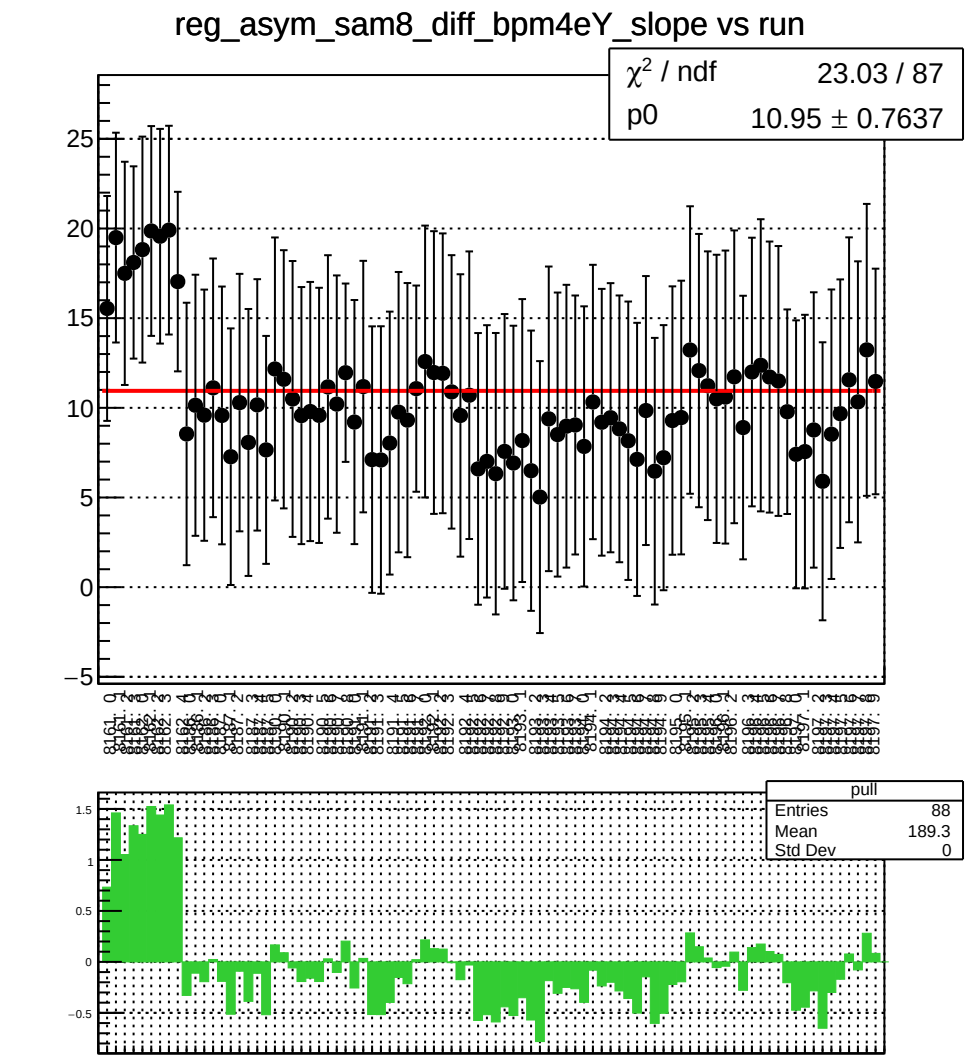

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 3.566 / 87
p0 0.5219 ± 0.06819
pull
Entries 88
Mean 408
Std Dev 0

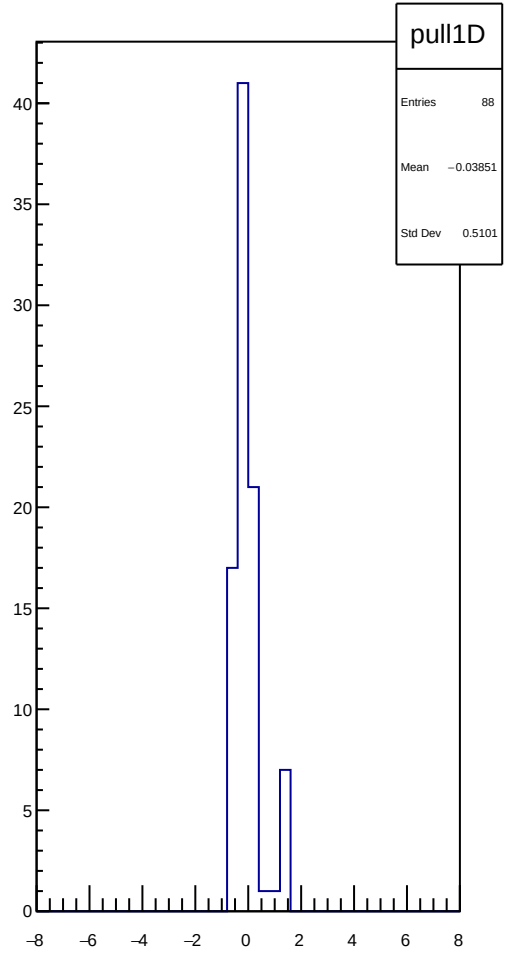

pull1D
Entries 88
Mean −0.008618
Std Dev 0.2011

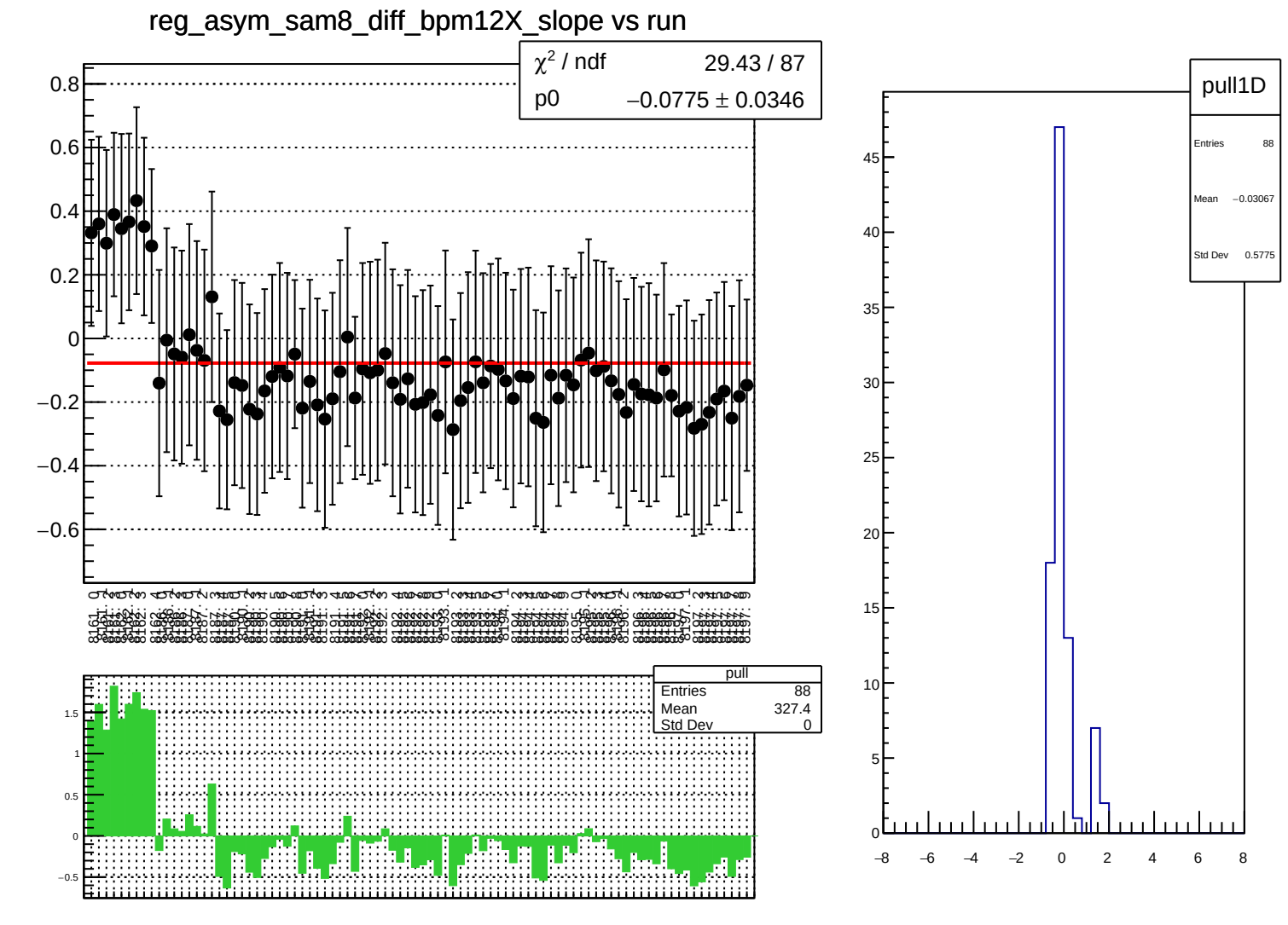

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 44.36 / 87
p0 14.18 ± 0.425
pull
Entries 88
Mean 136.7
Std Dev 0
pull1D
Entries 88
Mean −0.09493
Std Dev 0.7036

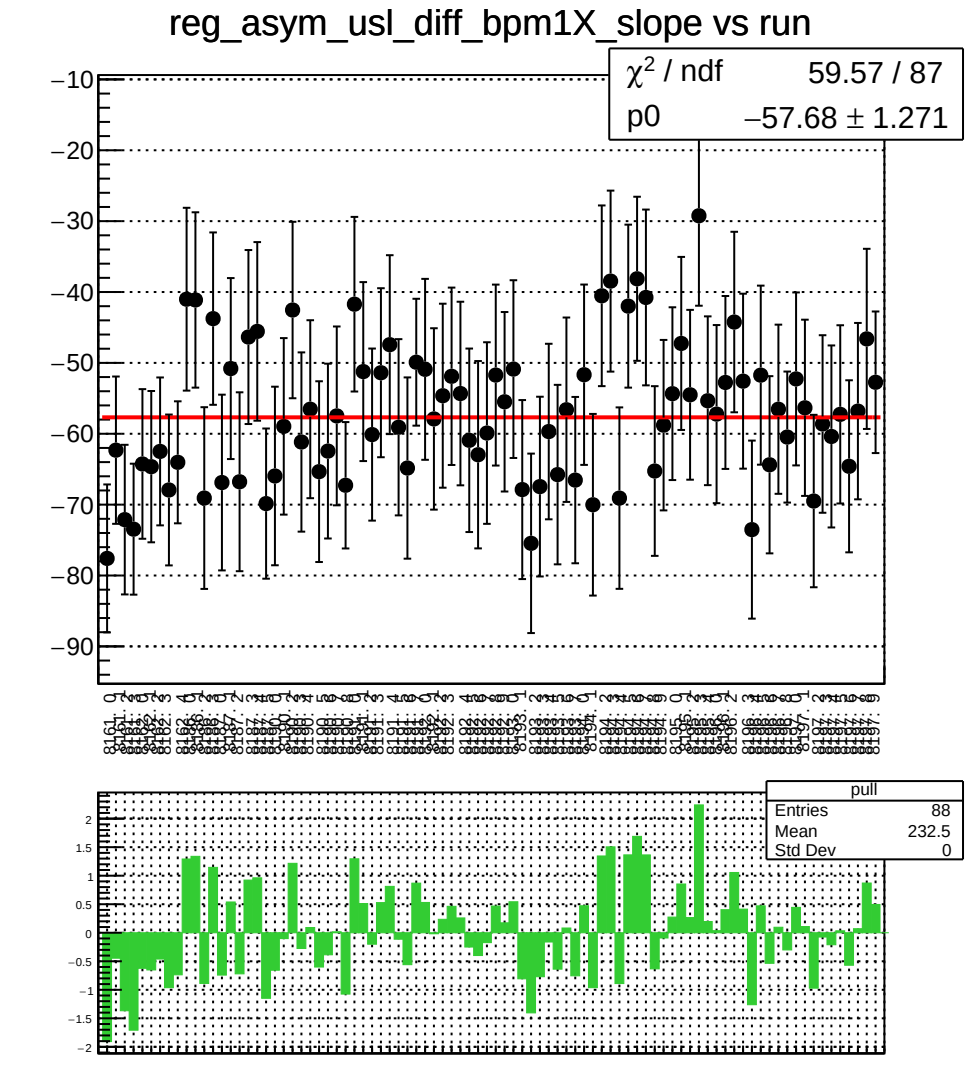

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 21.26 / 87
p0 −13.45 ± 0.7089
pull
Entries 88
Mean 206.8
Std Dev 0
pull1D
Entries 88
Mean 0.03703
Std Dev 0.4902

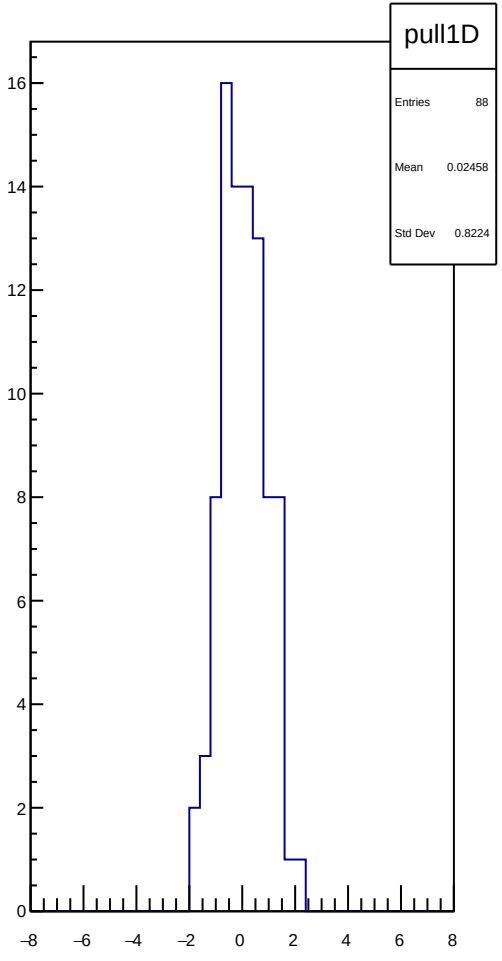

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 35.5 / 87
p0 −34.86 ± 0.4255
pull
Entries 88
Mean 136
Std Dev 0
pull1D
Entries 88
Mean 0.07948
Std Dev 0.6301

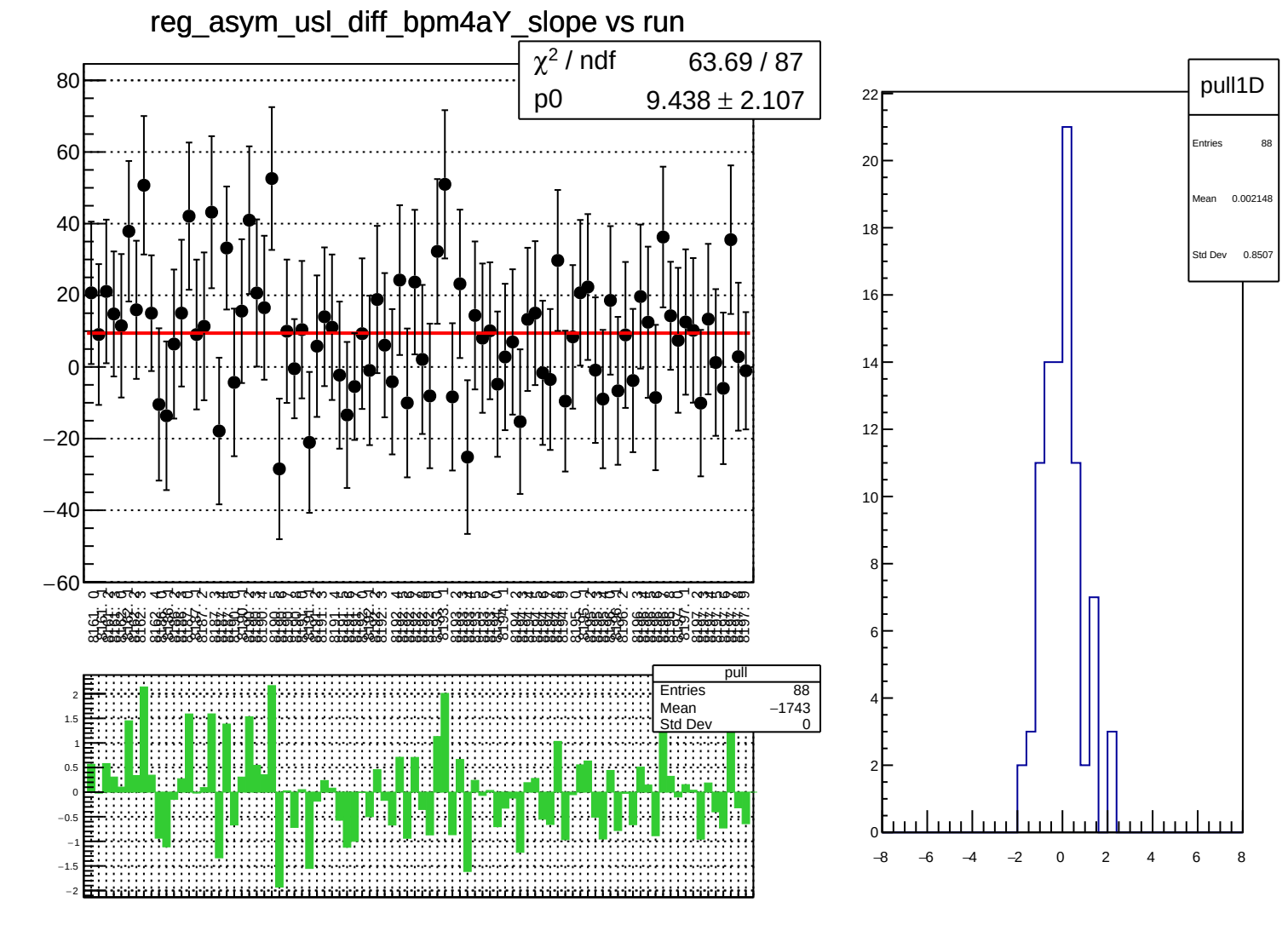

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 23.03 / 87
p0 10.95 ± 0.7637
pull
Entries 88
Mean 189.3
Std Dev 0

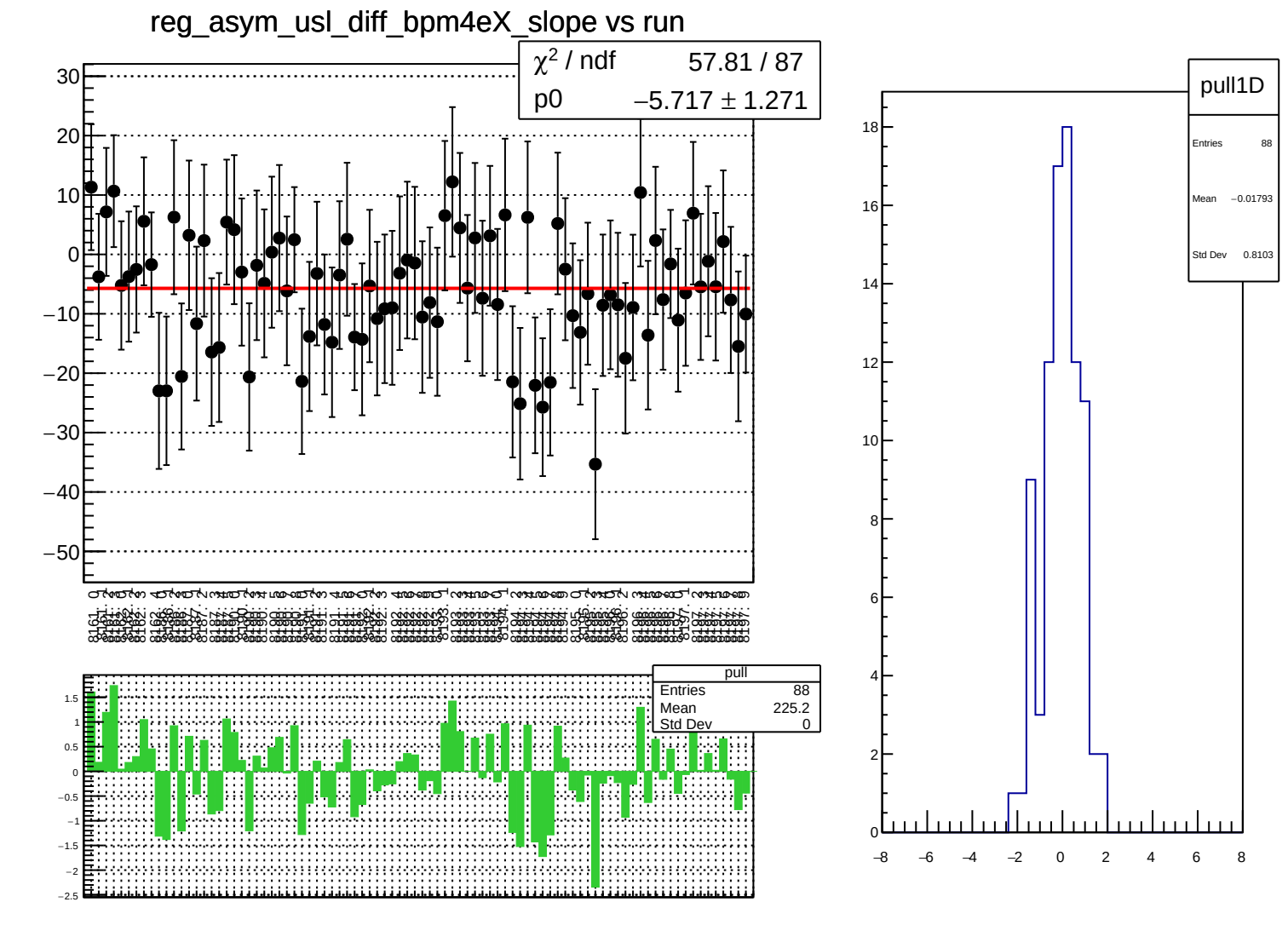

pull1D
Entries 88
Mean −0.03851
Std Dev 0.5101

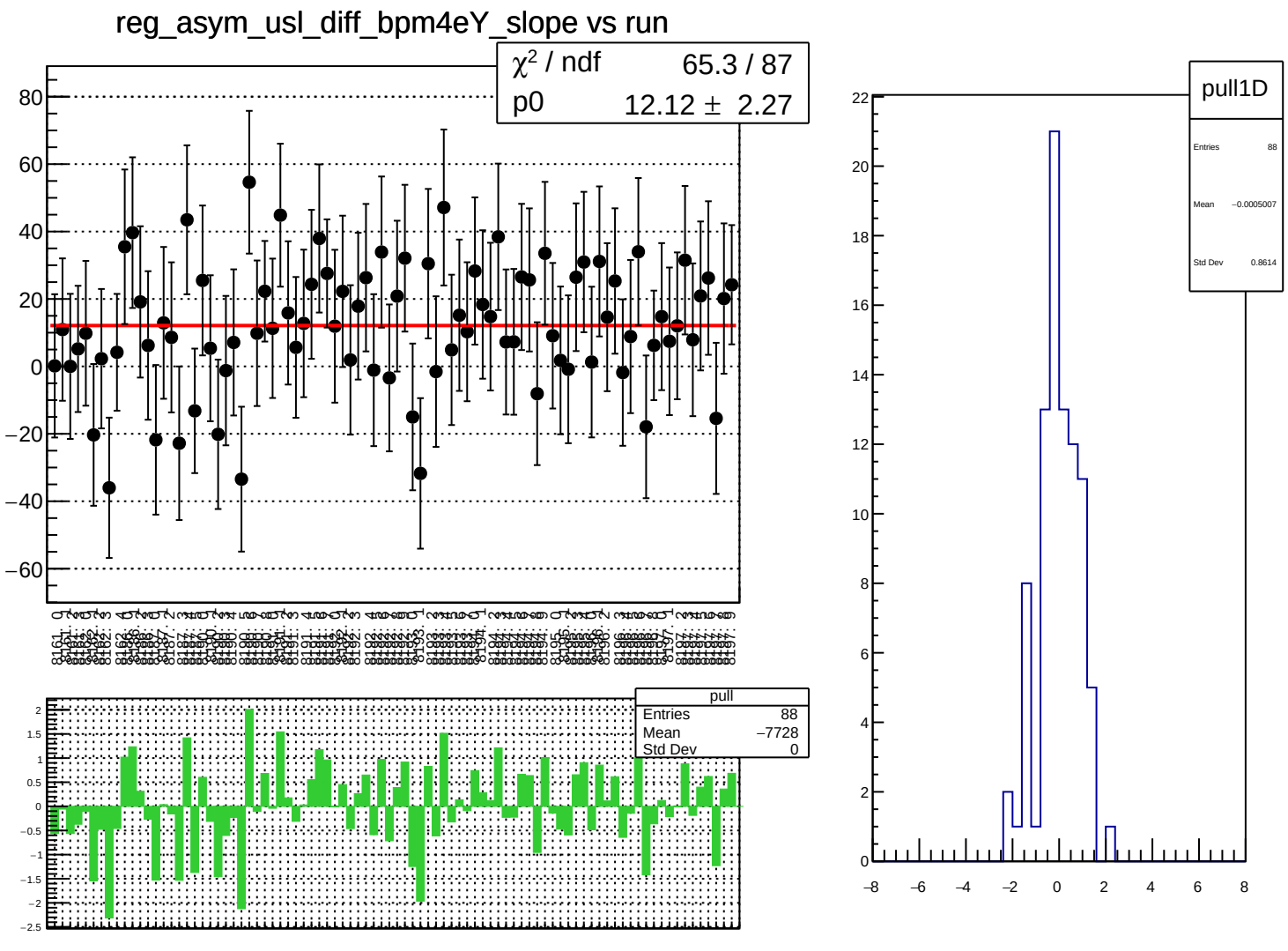

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 29.43 / 87
p0 −0.0775 ± 0.0346
pull
Entries 88
Mean 327.4
Std Dev 0
pull1D
Entries 88
Mean −0.03067
Std Dev 0.5775

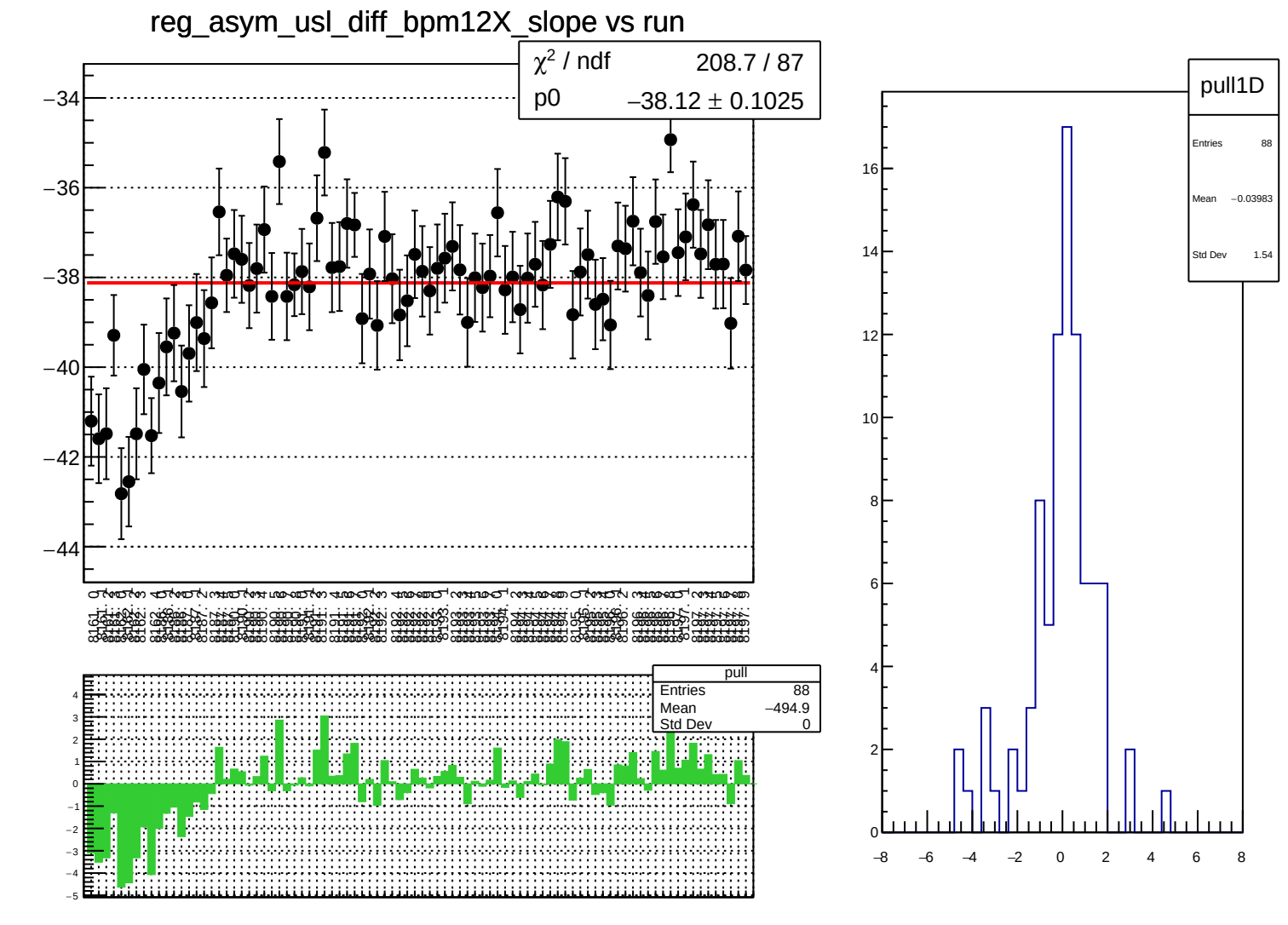

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 59.57 / 87
p0 −57.68 ± 1.271
pull
Entries 88
Mean 232.5
Std Dev 0

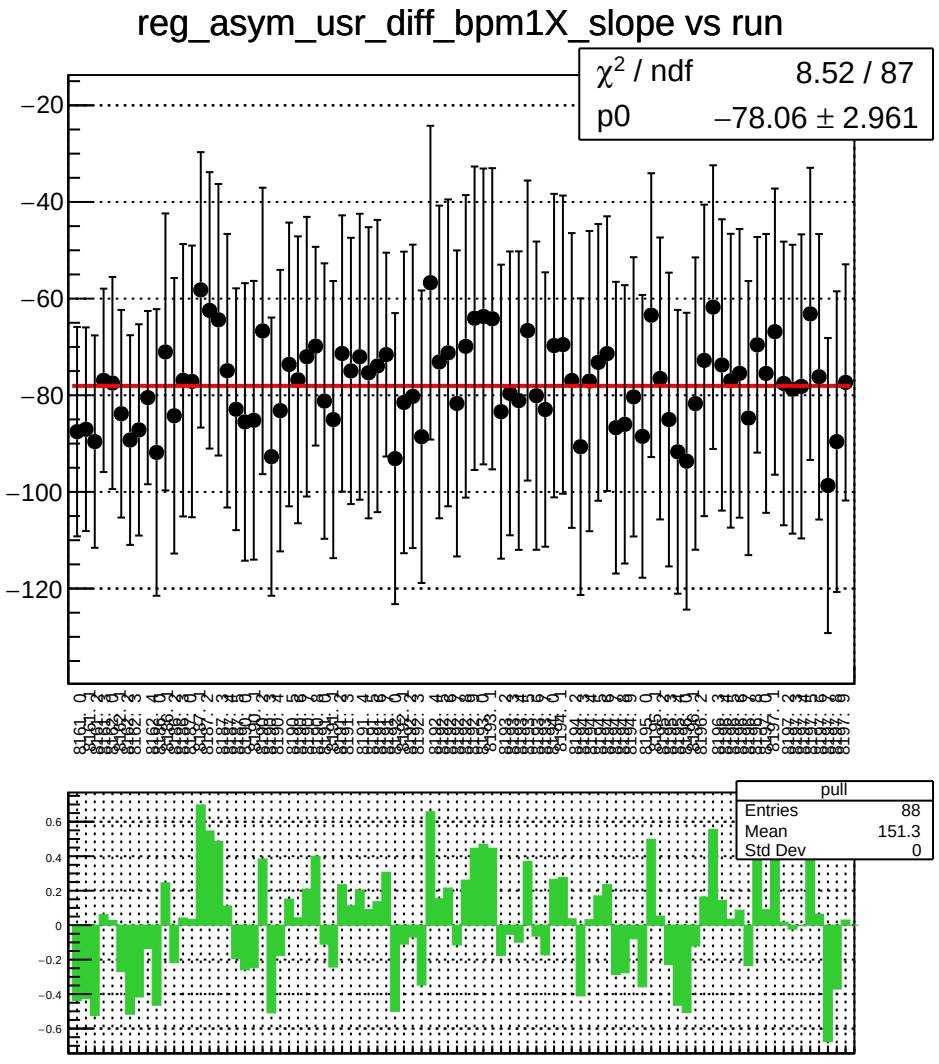

pull1D
Entries 88
Mean 0.02458
Std Dev 0.8224

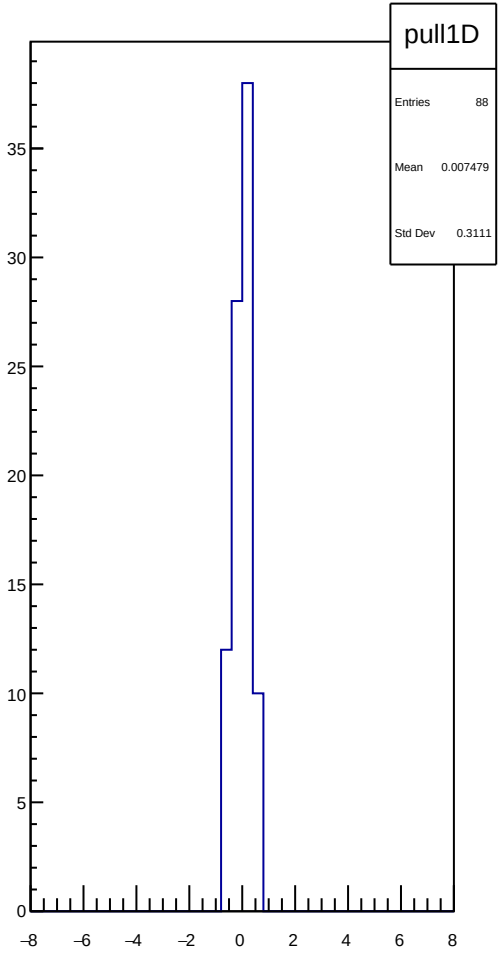

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 63.69 / 87
p0 9.438 ± 2.107
pull
Entries 88
Mean −1743
Std Dev 0
pull1D
Entries 88
Mean 0.002148
Std Dev 0.8507

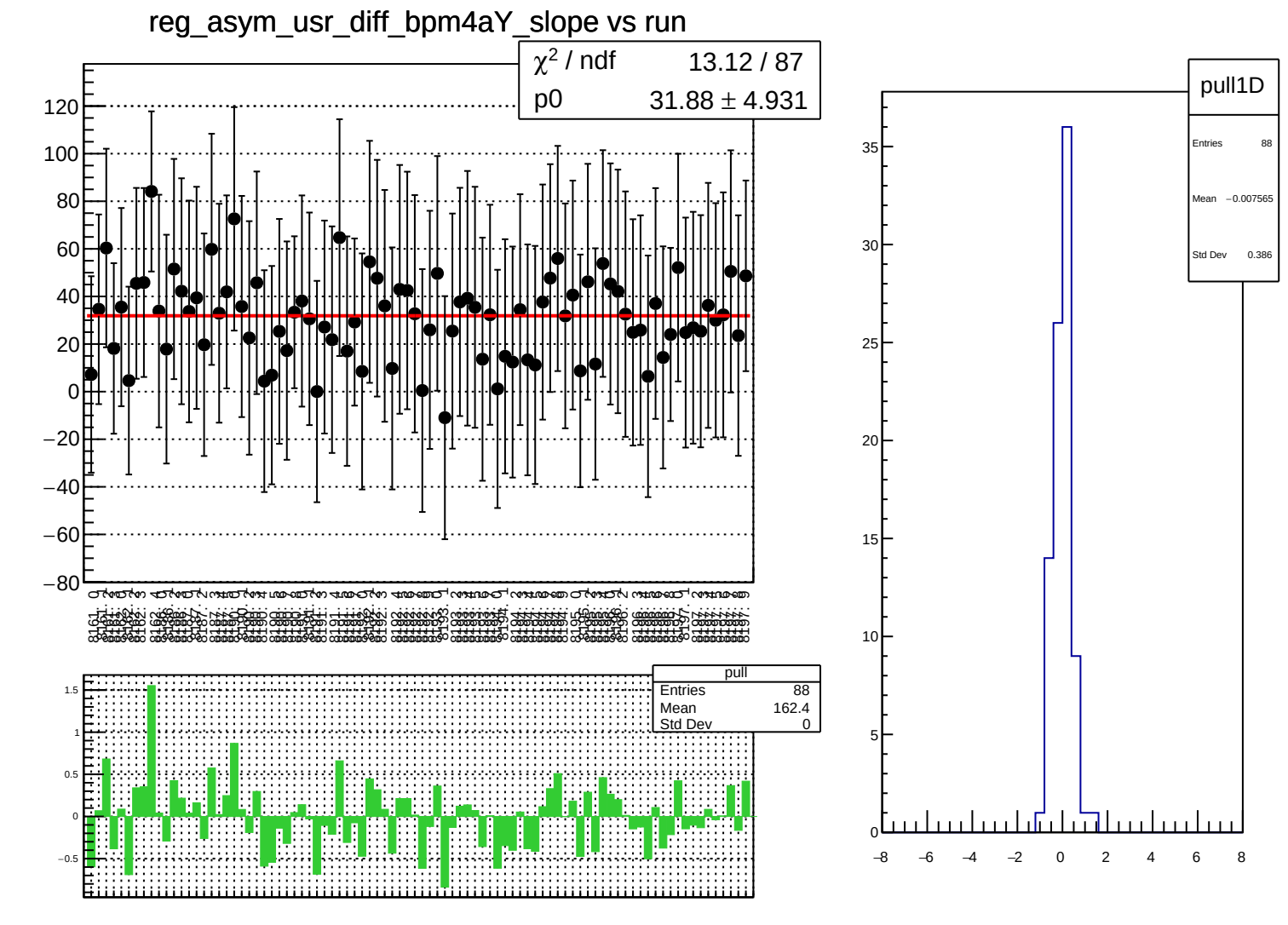

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 57.81 / 87
p0 −5.717 ± 1.271
pull
Entries 88
Mean 225.2
Std Dev 0
pull1D
Entries 88
Mean −0.01793
Std Dev 0.8103

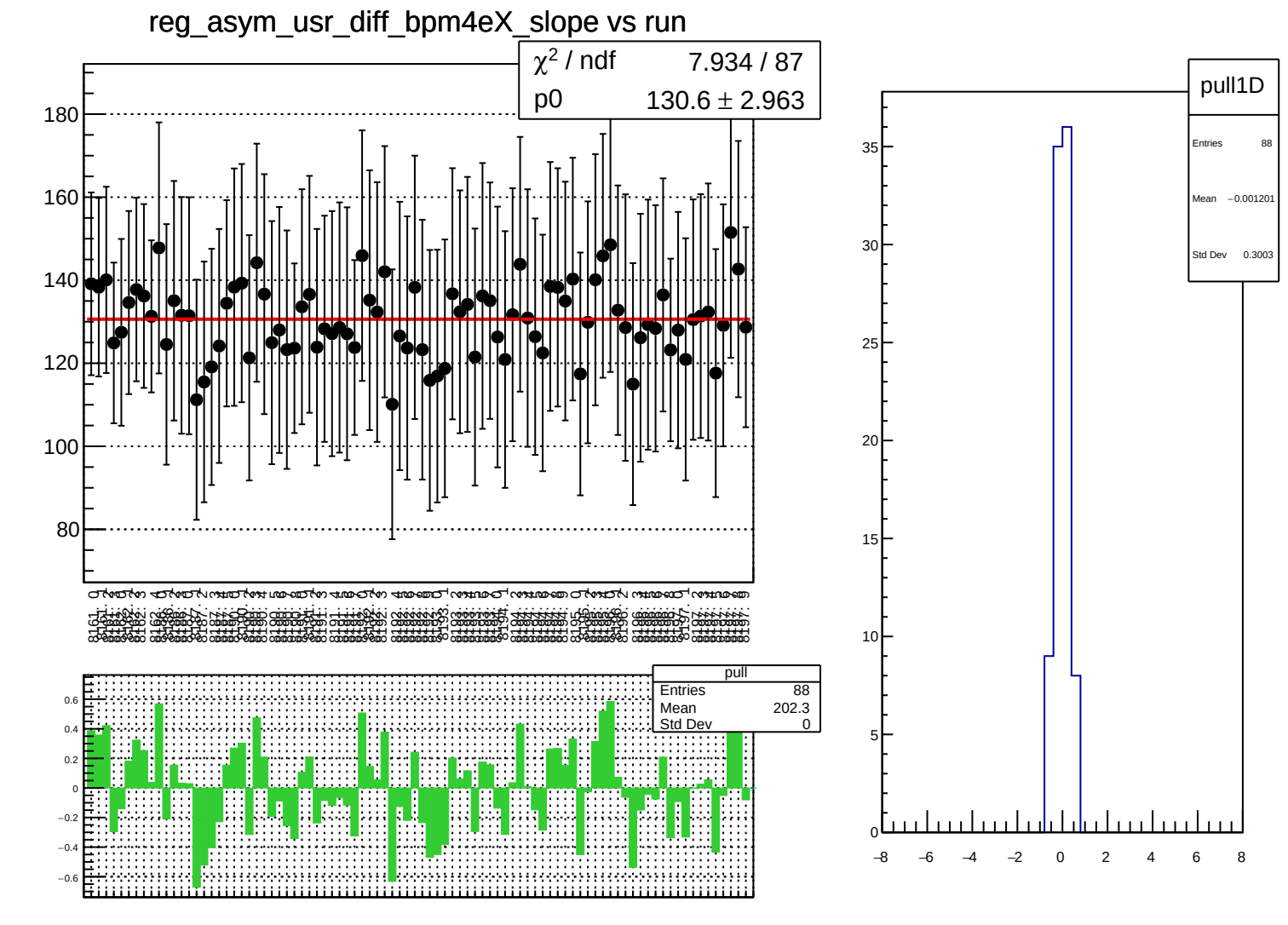

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 65.3 / 87
p0 12.12 ± 2.27
pull
Entries 88
Mean −7728
Std Dev 0
pull1D
Entries 88
Mean −0.0005007
Std Dev 0.8614

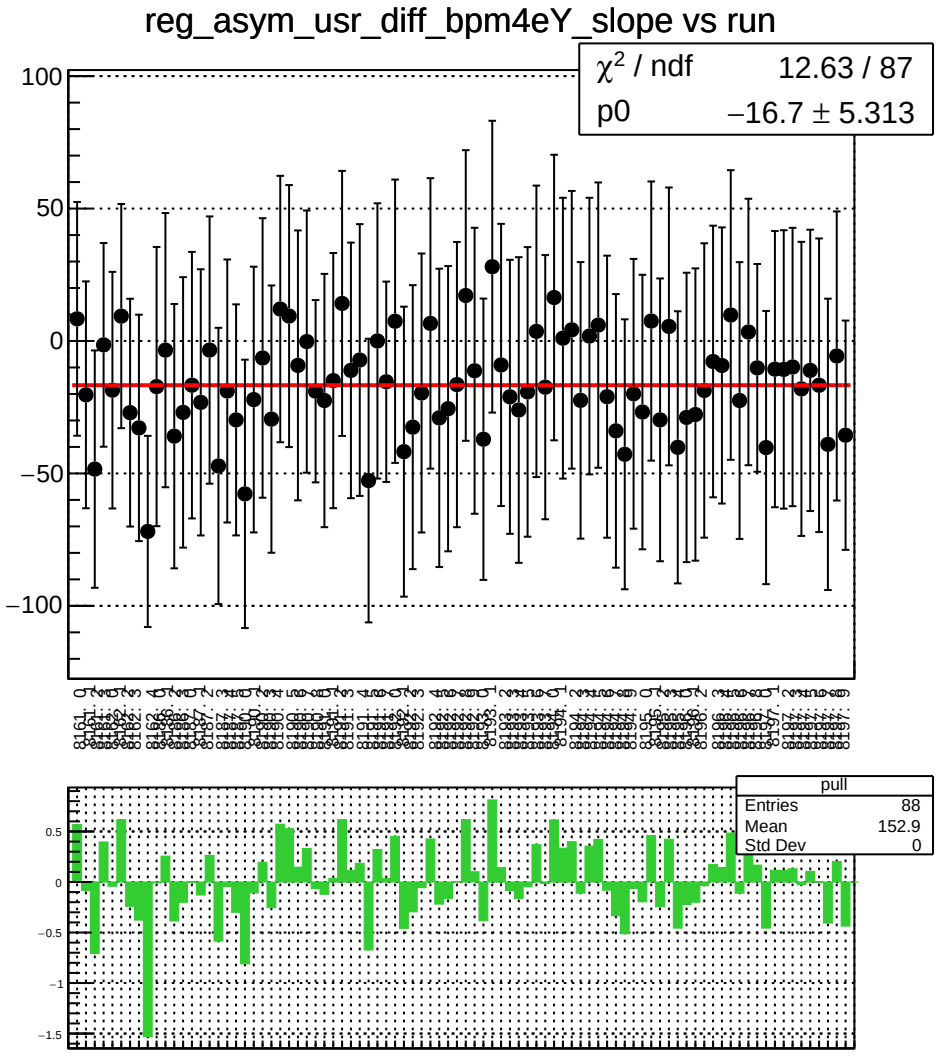

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 208.7 / 87
p0 −38.12 ± 0.1025
pull
Entries 88
Mean −494.9
Std Dev 0
pull1D
Entries 88
Mean −0.03983
Std Dev 1.54

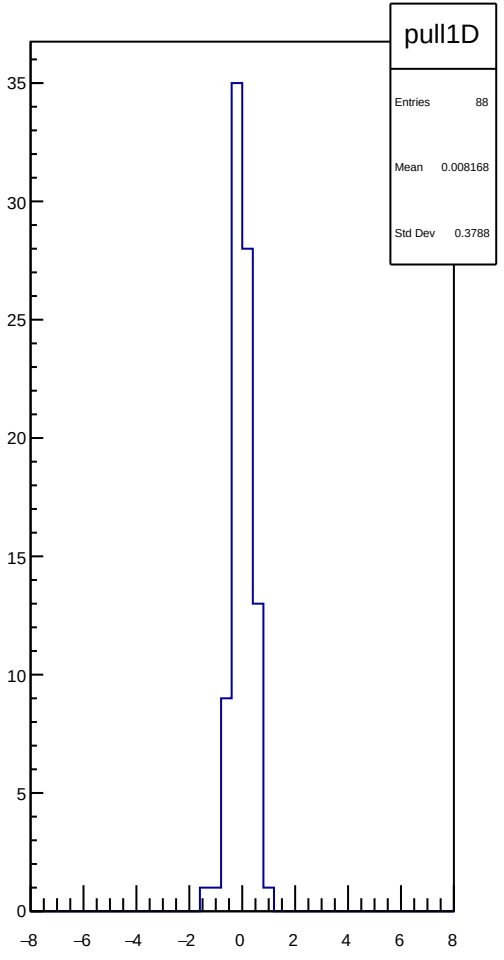

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 8.52 / 87
p0 −78.06 ± 2.961
pull
Entries 88
Mean 151.3
Std Dev 0

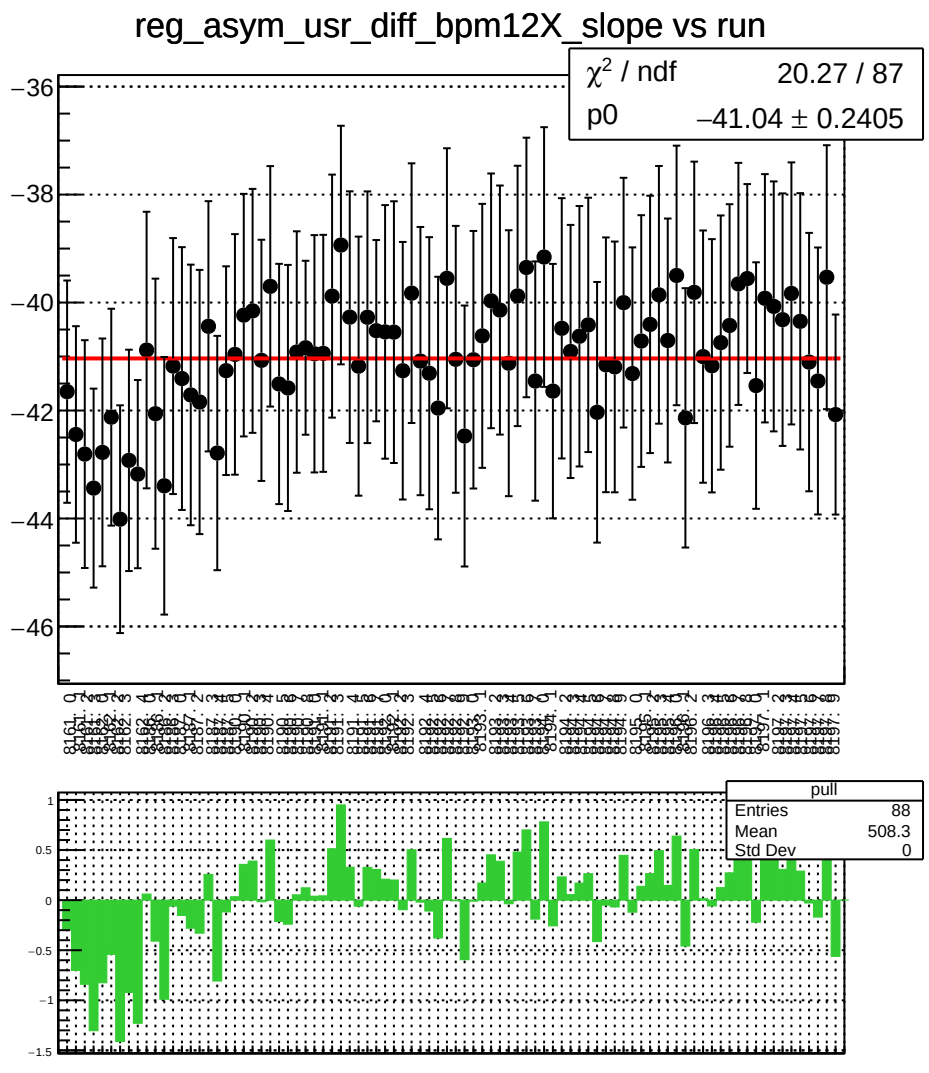

pull1D
Entries 88
Mean 0.007479
Std Dev 0.3111

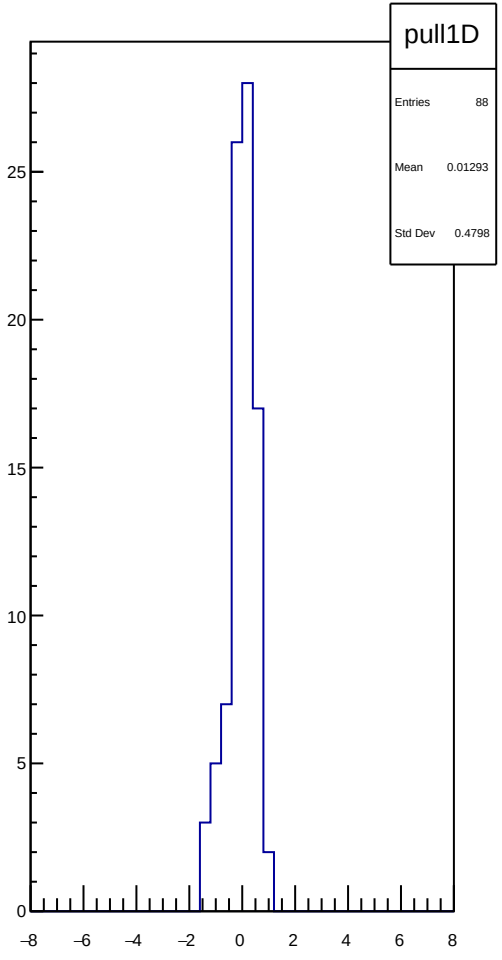

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 13.12 / 87
p0 31.88 ± 4.931
pull
Entries 88
Mean 162.4
Std Dev 0
pull1D
Entries 88
Mean −0.007565
Std Dev 0.386

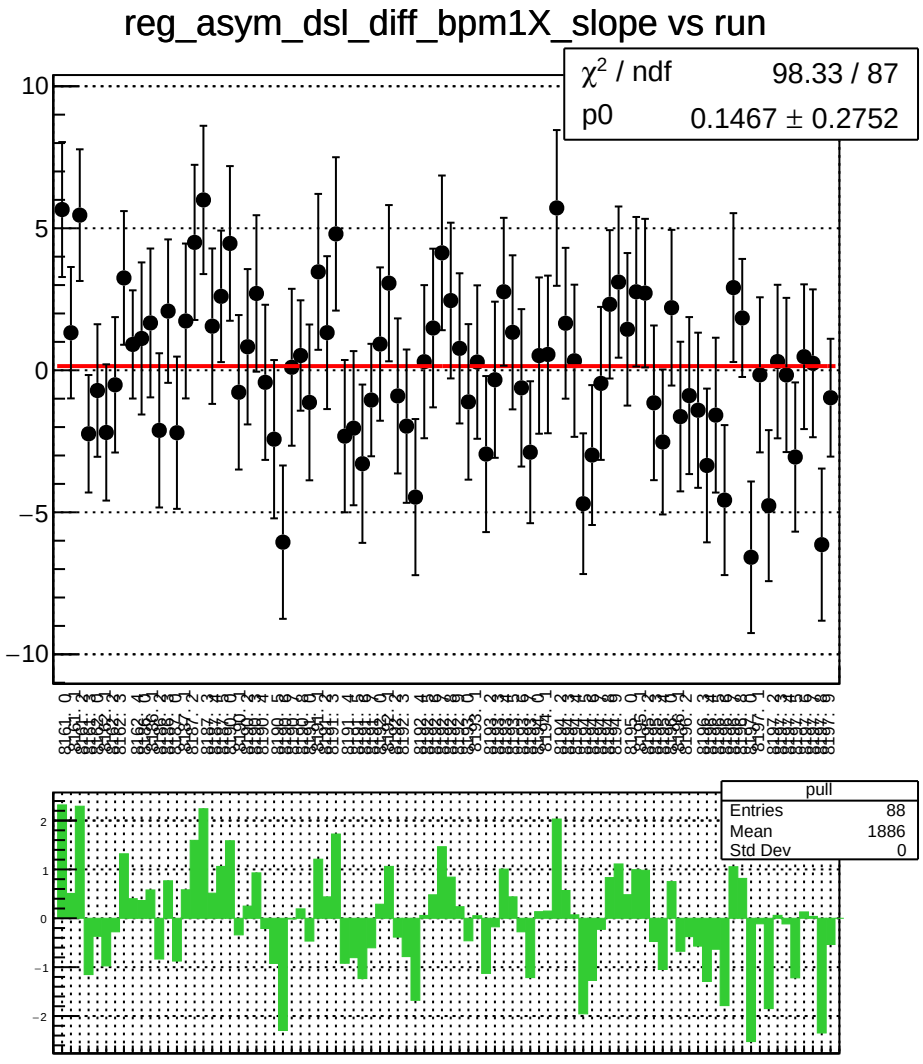

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 7.934 / 87
p0 130.6 ± 2.963
180
160
140
120
100
80
pull
Entries 88
Mean 202.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.001201
Std Dev 0.3003
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

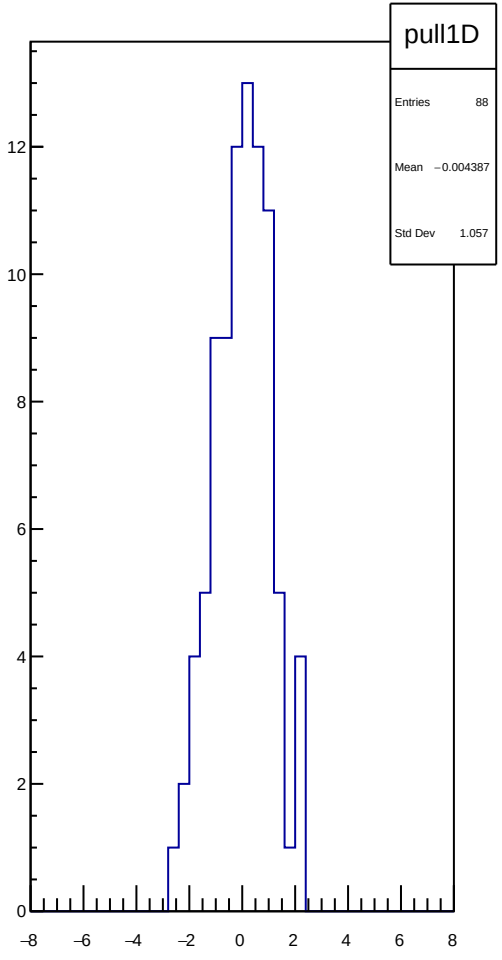

reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 12.63 / 87
p0 −16.7 ± 5.313
pull
Entries 88
Mean 152.9
Std Dev 0

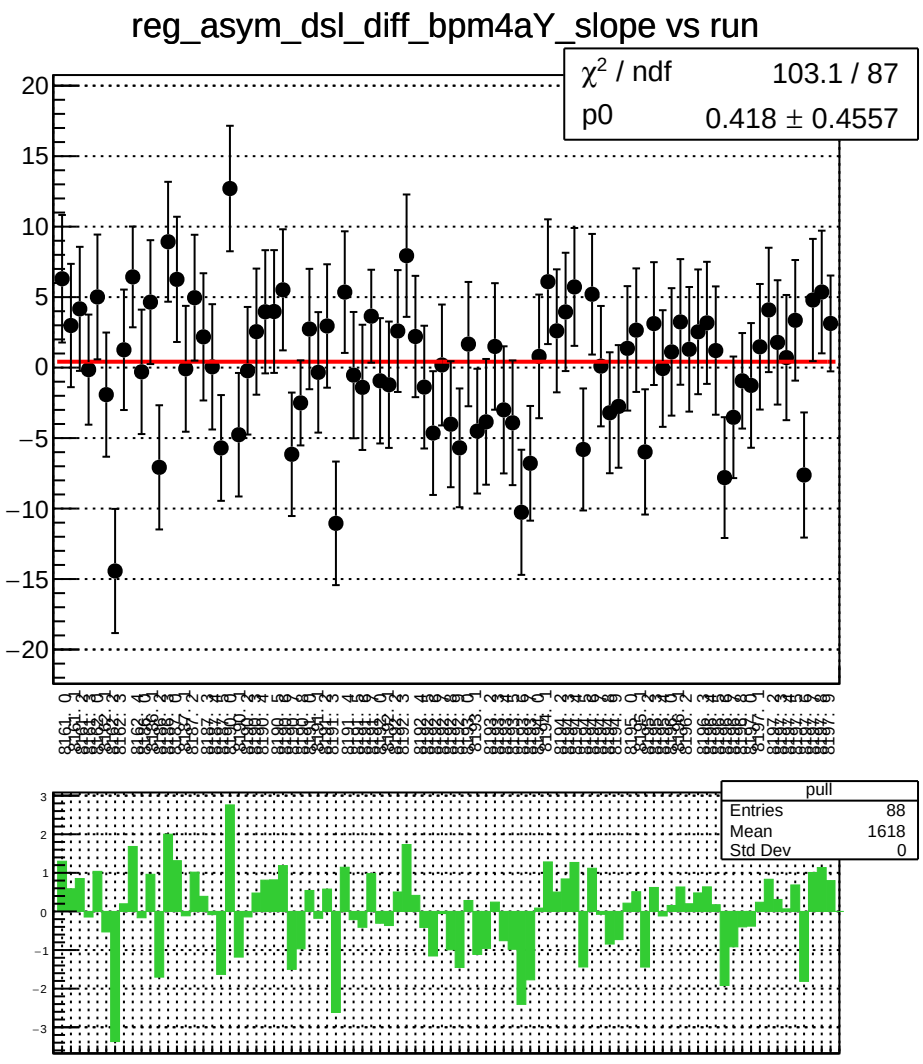

pull1D
Entries 88
Mean 0.008168
Std Dev 0.3788

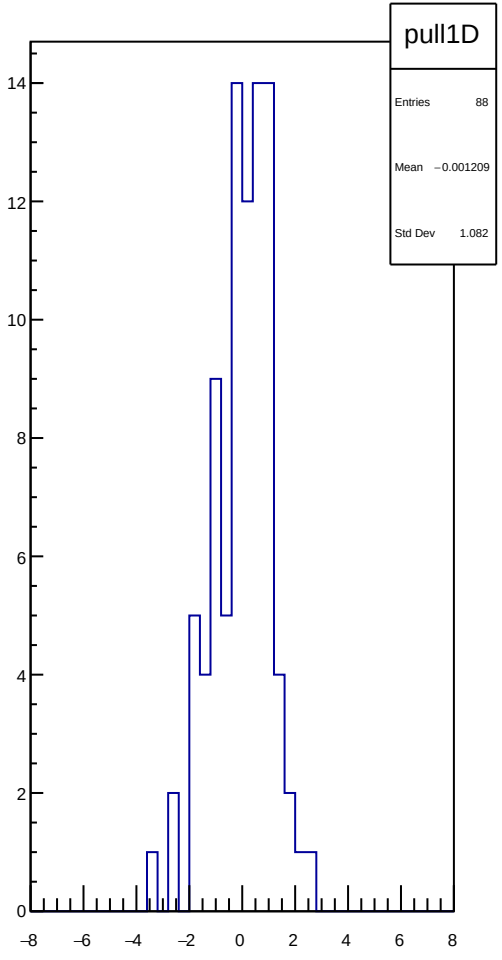

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 20.27 / 87
p0 −41.04 ± 0.2405
−36
−38
−40
−42
−44
−46
pull
Entries 88
Mean 508.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

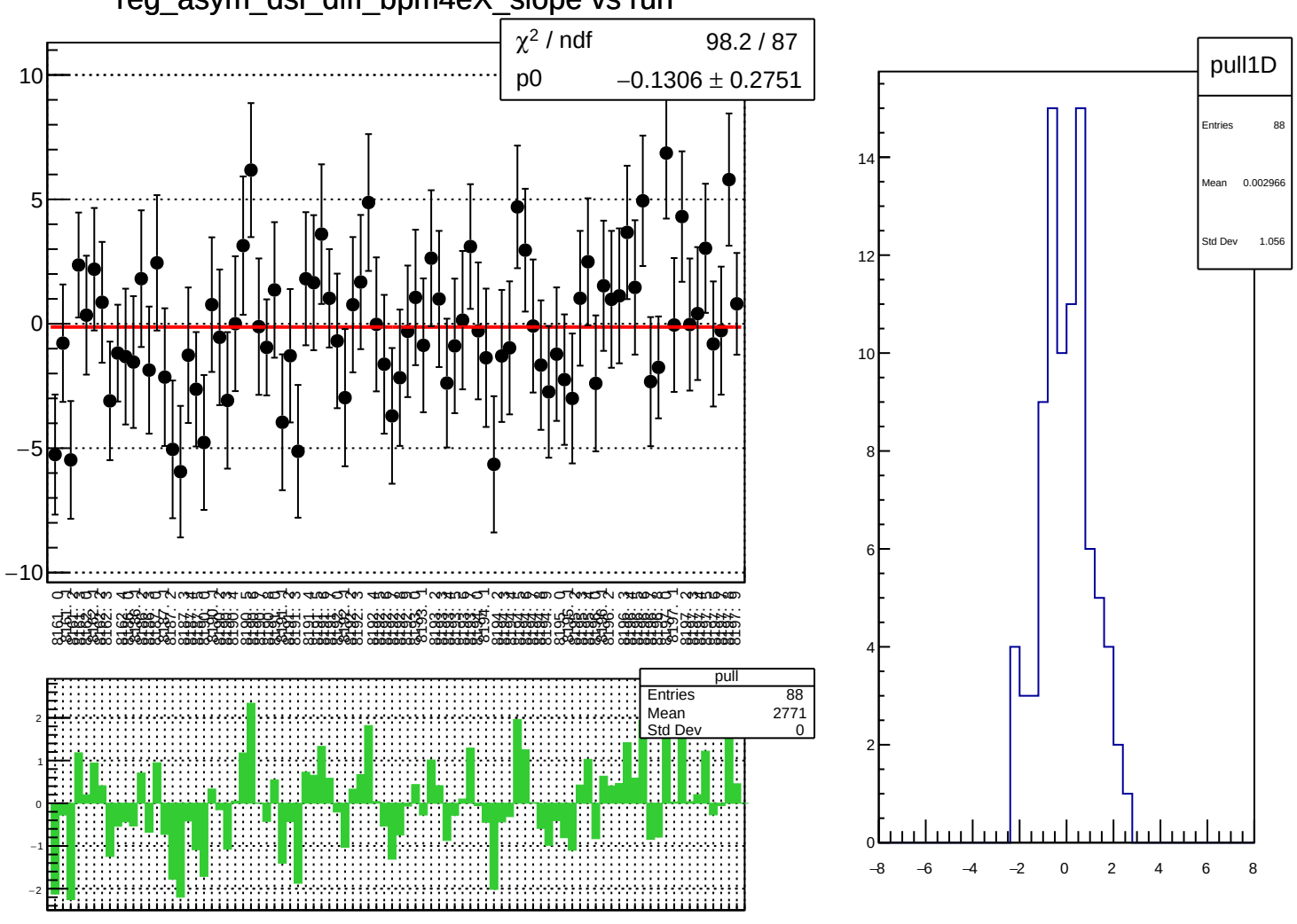

pull1D
Entries 88
Mean 0.01293
Std Dev 0.4798
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

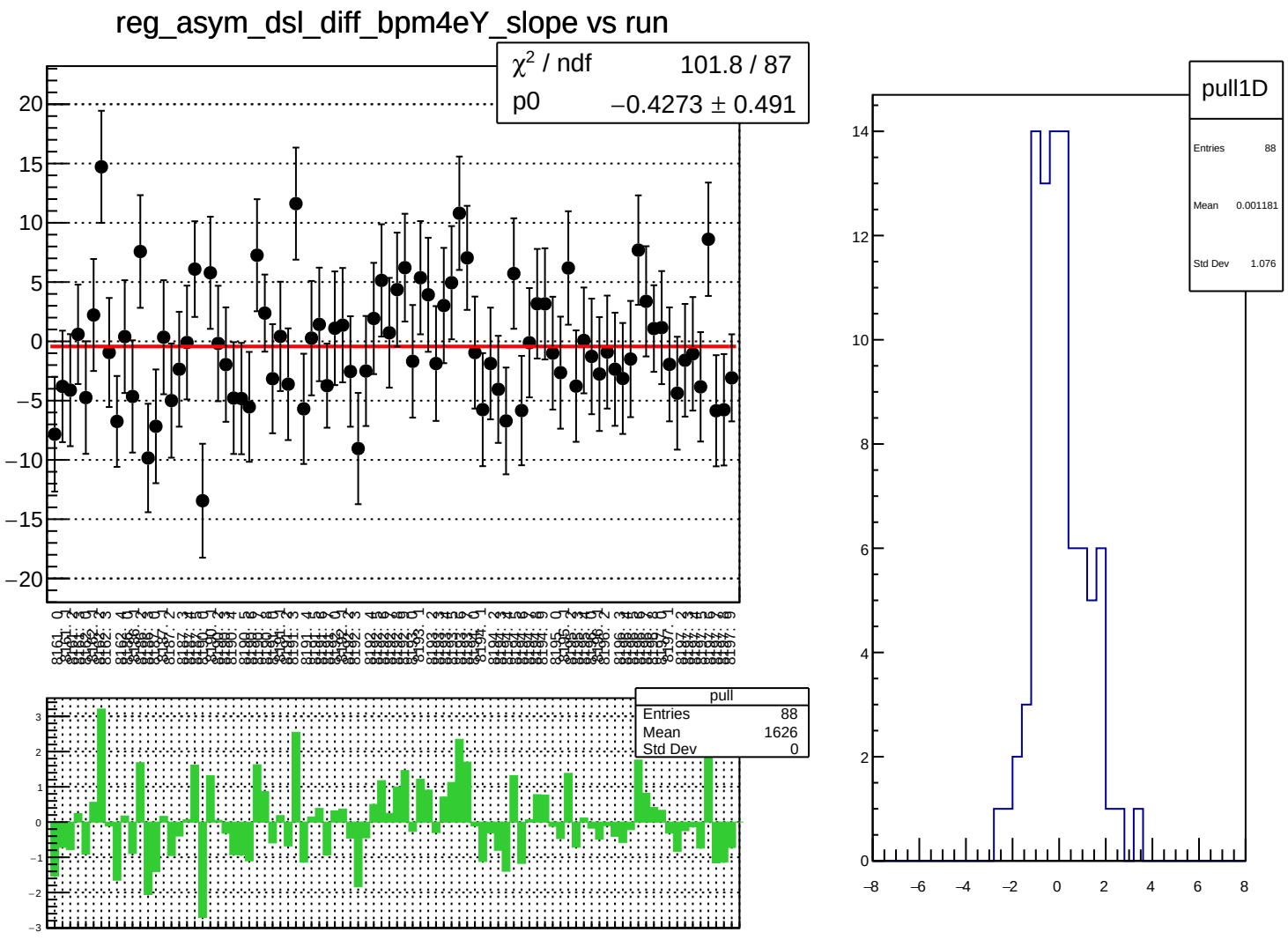

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 98.33 / 87
p0 0.1467 ± 0.2752
pull
Entries 88
Mean 1886
Std Dev 0

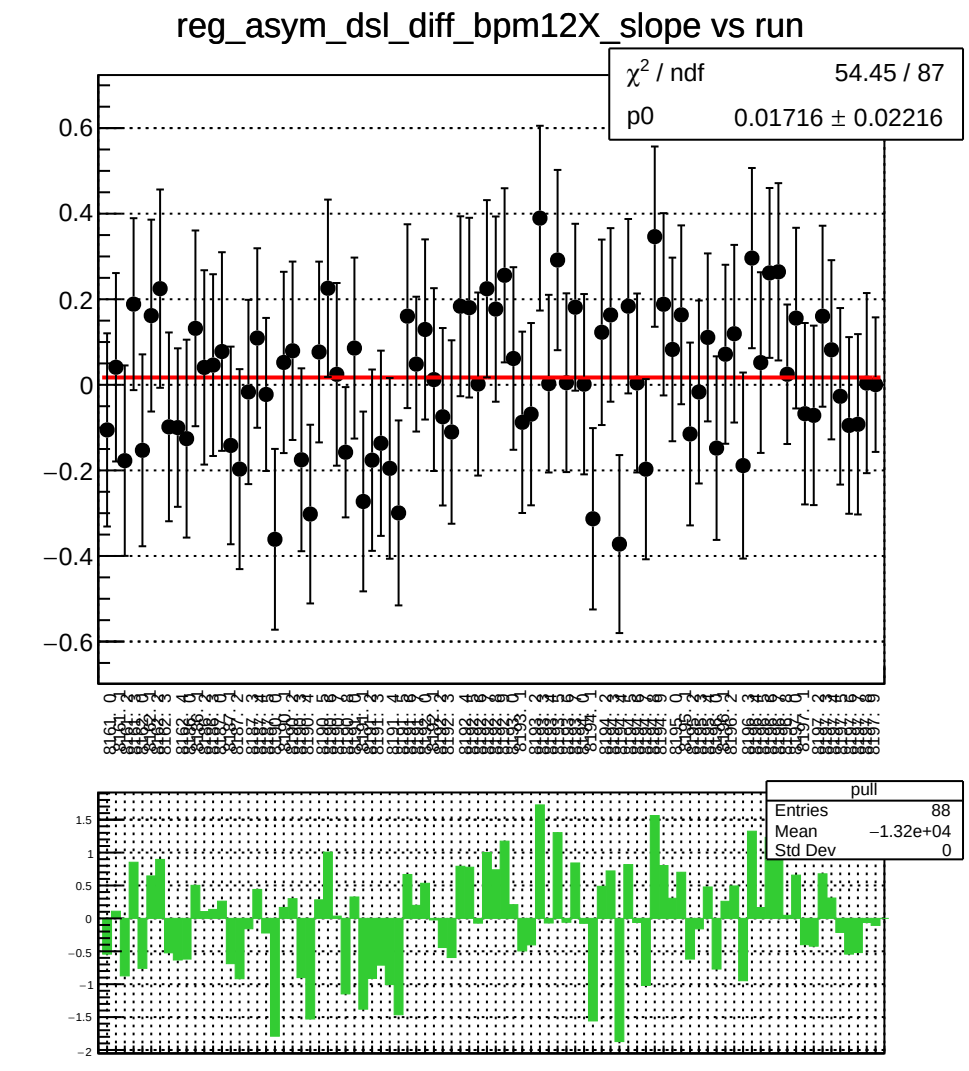

pull1D
Entries 88
Mean −0.004387
Std Dev 1.057

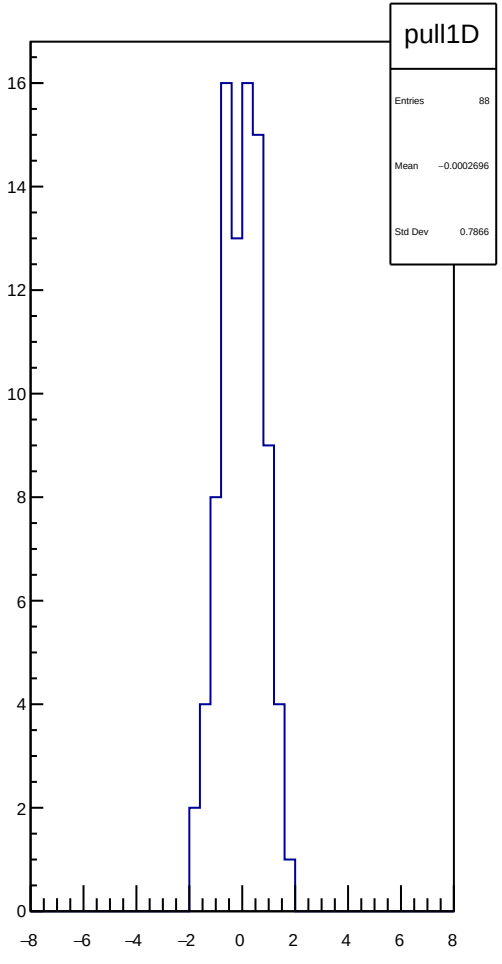

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 103.1 / 87
p0 0.418 ± 0.4557
pull
Entries 88
Mean 1618
Std Dev 0

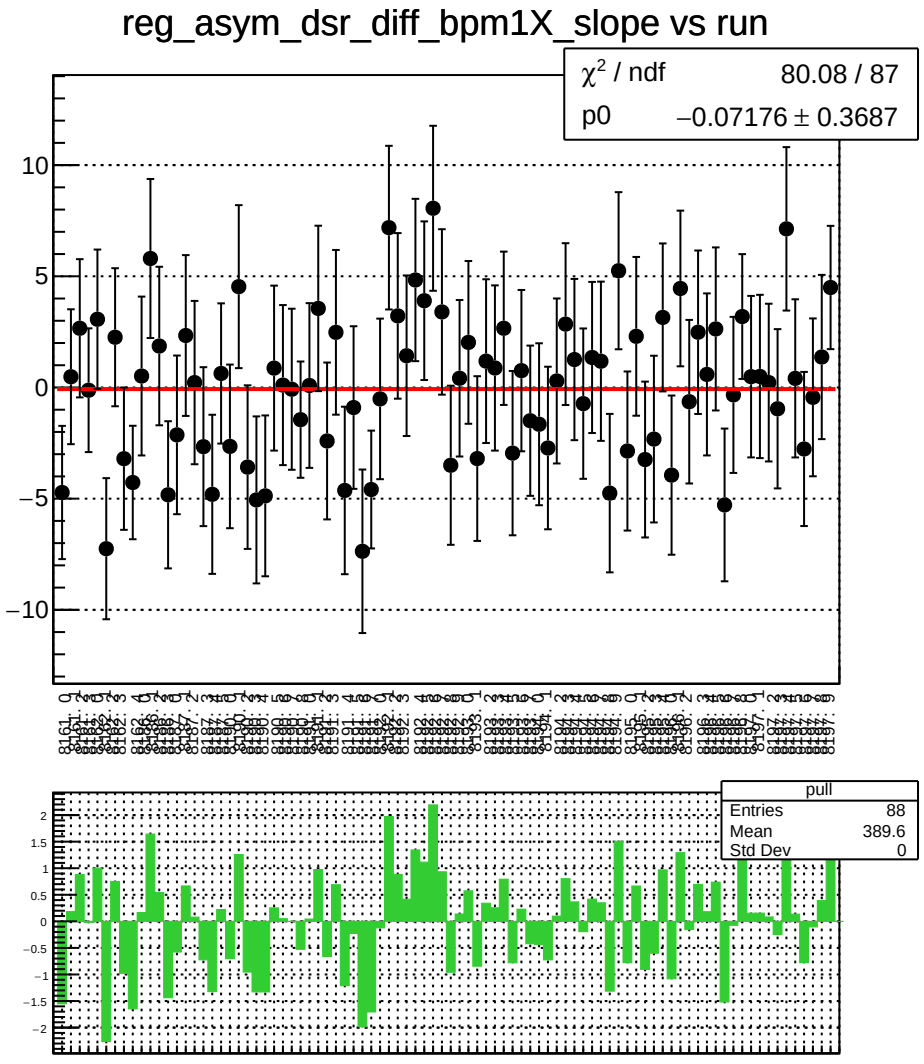

pull1D
Entries 88
Mean −0.001209
Std Dev 1.082

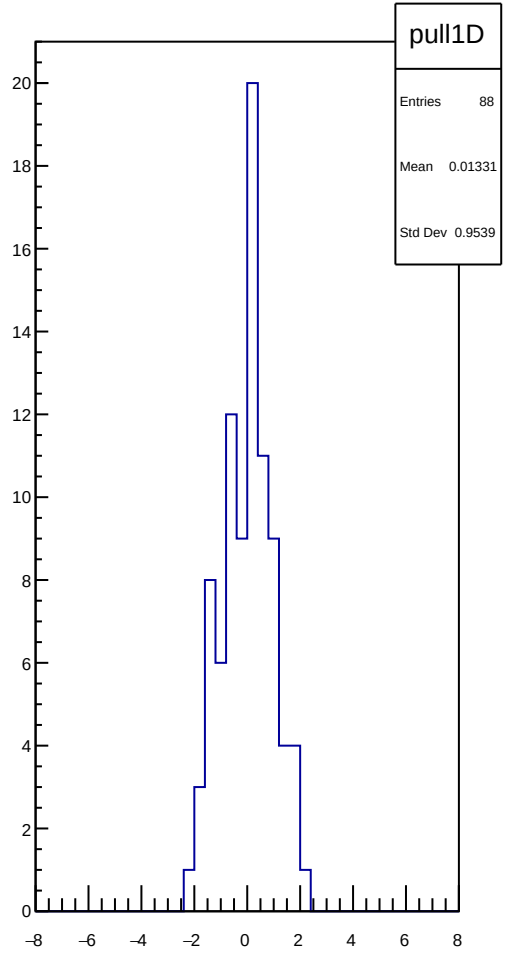

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 98.2 / 87
p0 −0.1306 ± 0.2751
pull
Entries 88
Mean 2771
Std Dev 0
pull1D
Entries 88
Mean 0.002966
Std Dev 1.056

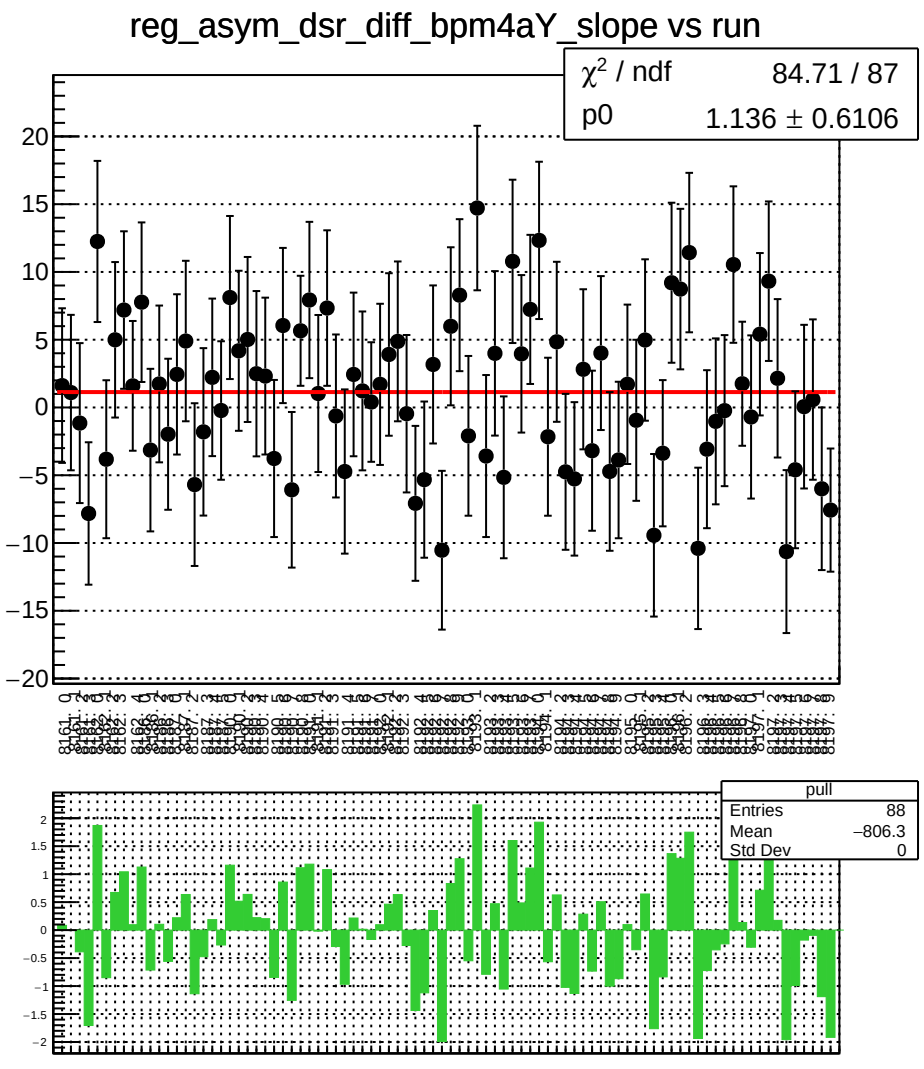

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 101.8 / 87
p0 −0.4273 ± 0.491
pull
Entries 88
Mean 1626
Std Dev 0
pull1D
Entries 88
Mean 0.001181
Std Dev 1.076

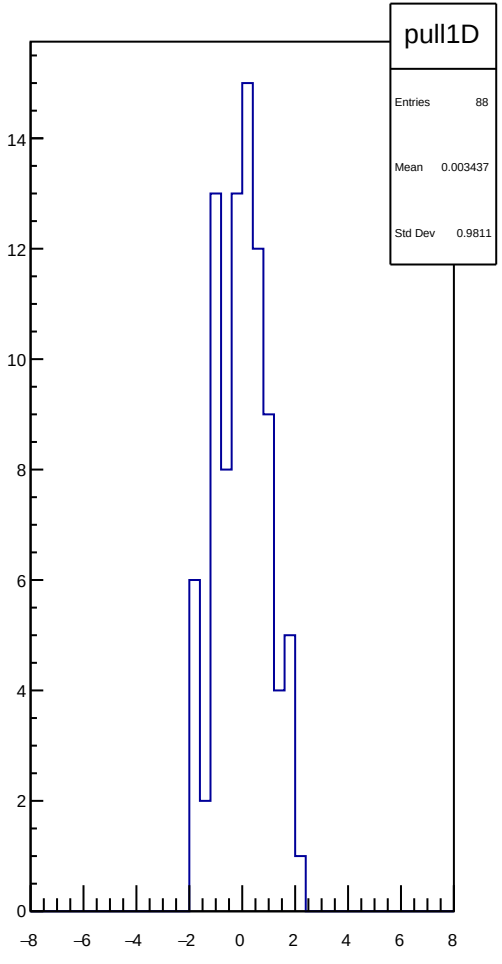

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 54.45 / 87
p0 0.01716 ± 0.02216
pull
Entries 88
Mean −1.32e+04
Std Dev 0

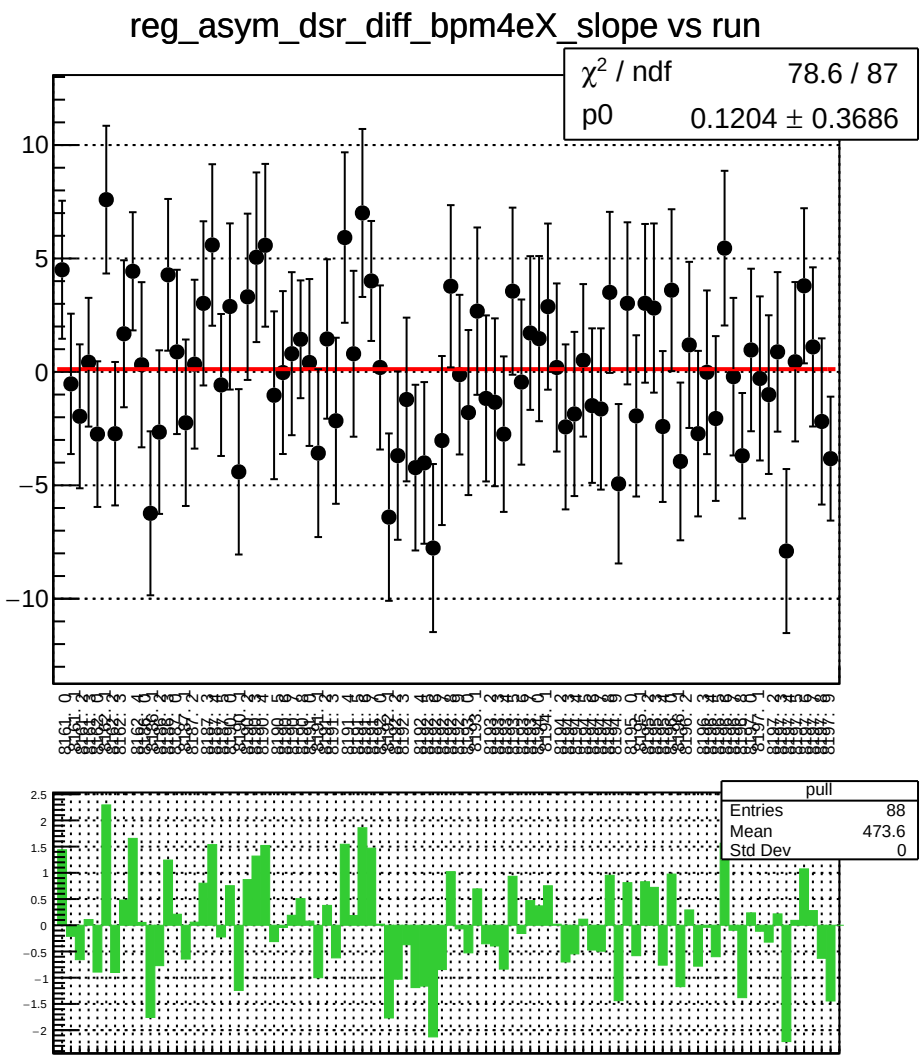

pull1D
Entries 88
Mean −0.0002696
Std Dev 0.7866

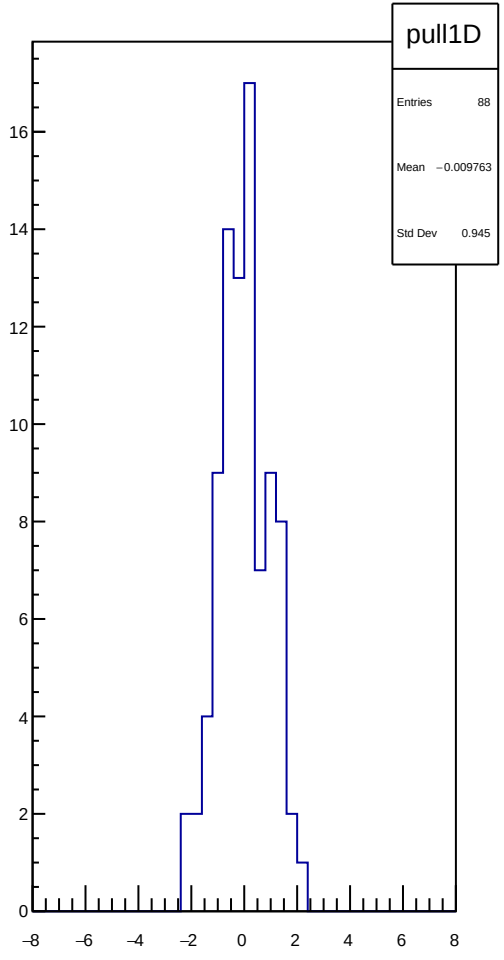

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 80.08 / 87
p0 −0.07176 ± 0.3687
pull
Entries 88
Mean 389.6
Std Dev 0

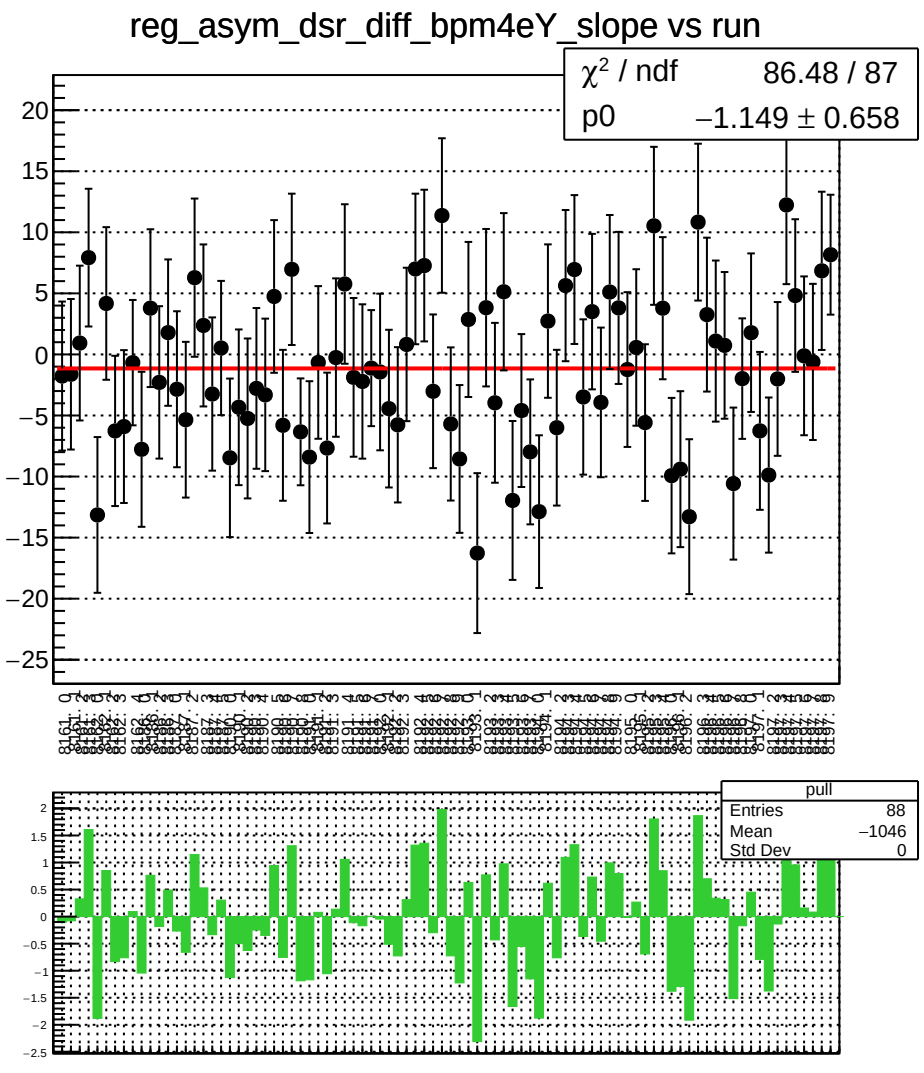

pull1D
Entries 88
Mean 0.01331
Std Dev 0.9539

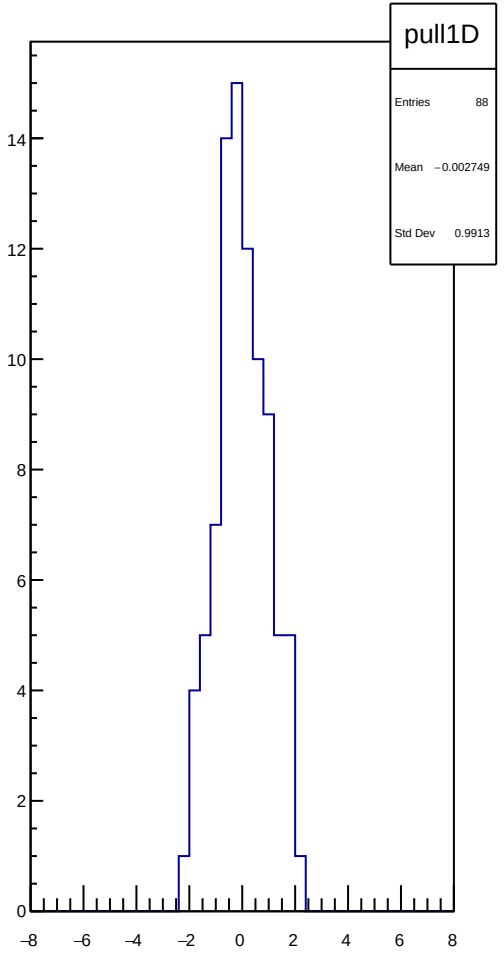

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 84.71 / 87
p0 1.136 ± 0.6106
pull
Entries 88
Mean −806.3
Std Dev 0

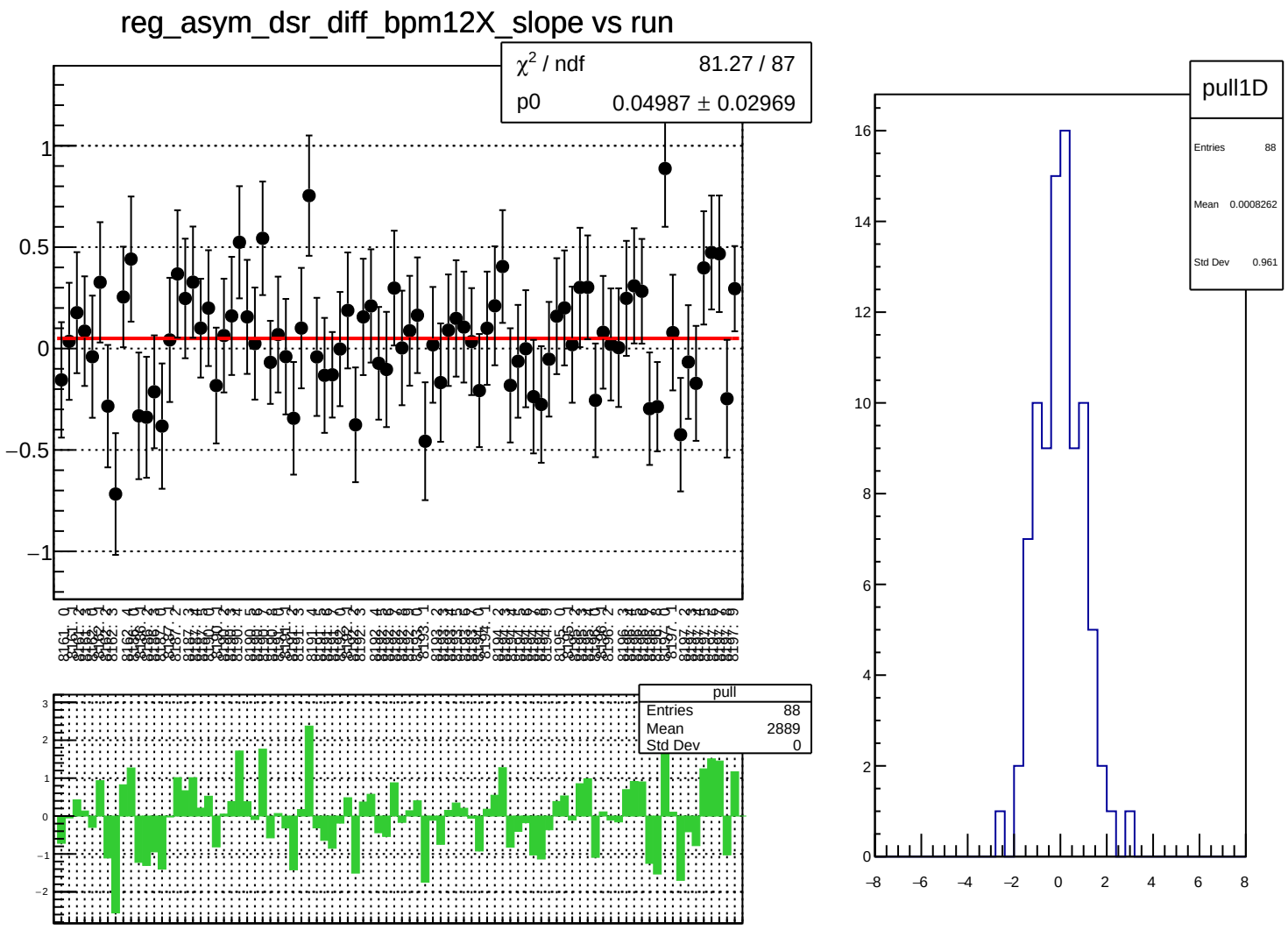

pull1D
Entries 88
Mean 0.003437
Std Dev 0.9811

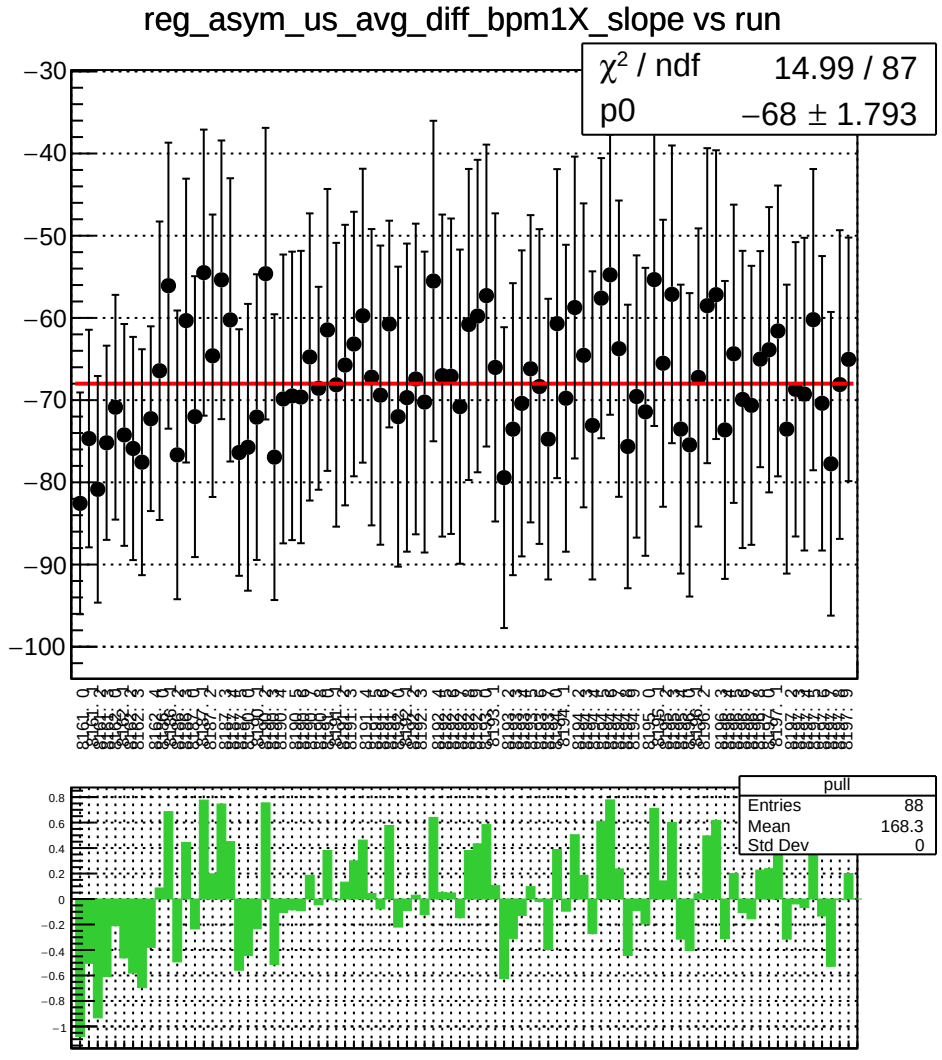

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 78.6 / 87
p0 0.1204 ± 0.3686
pull
Entries 88
Mean 473.6
Std Dev 0

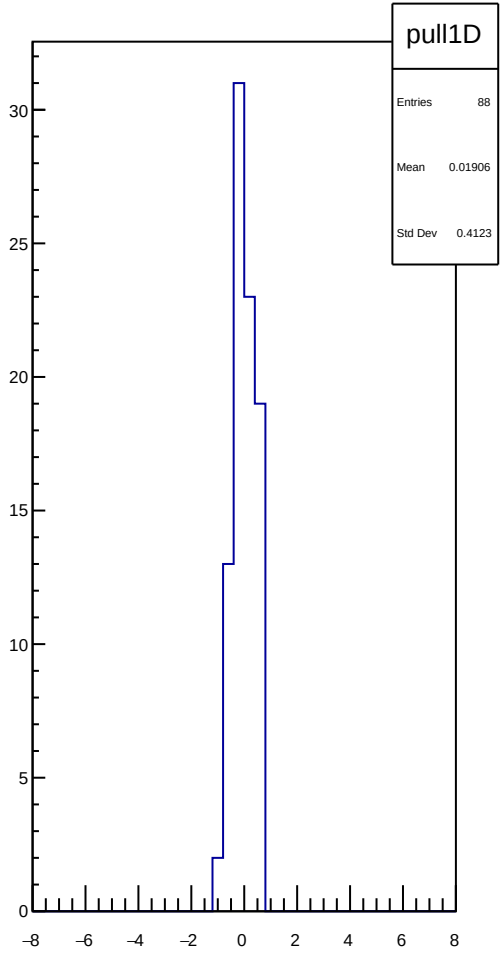

pull1D
Entries 88
Mean −0.009763
Std Dev 0.945

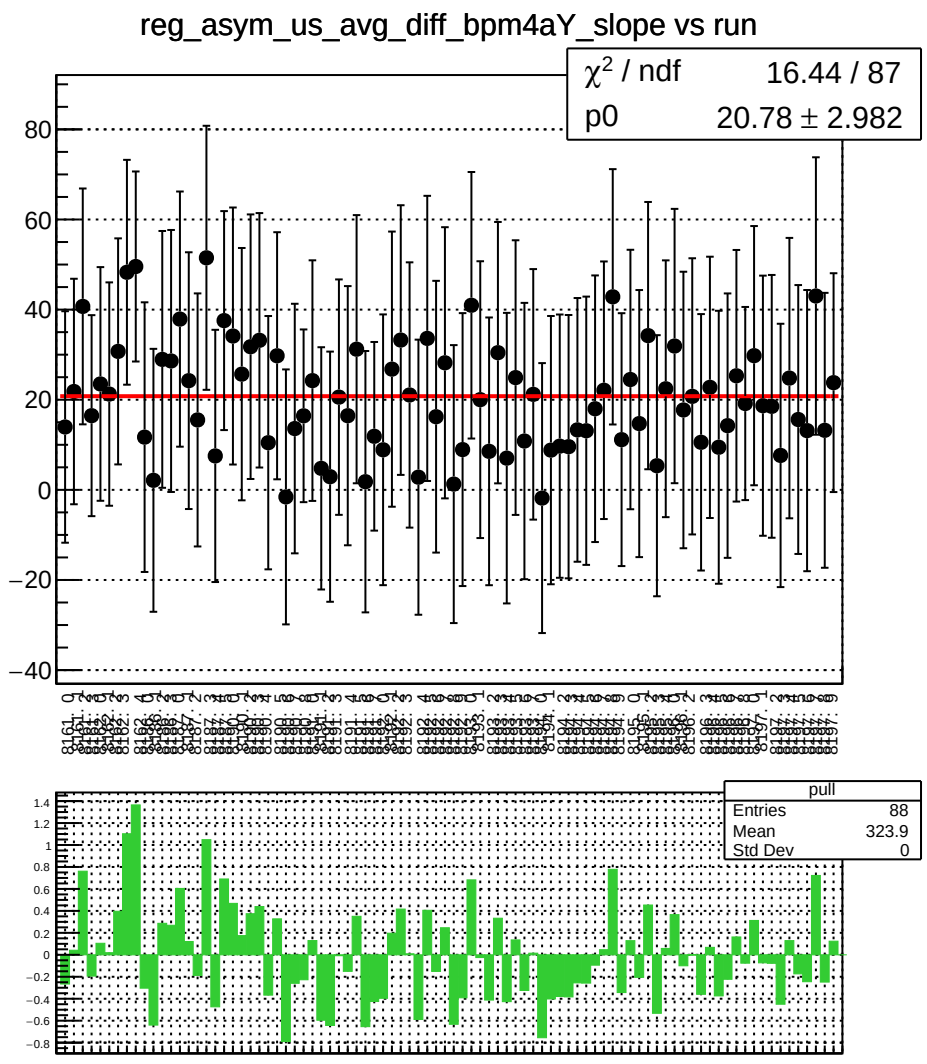

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 86.48 / 87
p0 −1.149 ± 0.658
pull
Entries 88
Mean −1046
Std Dev 0

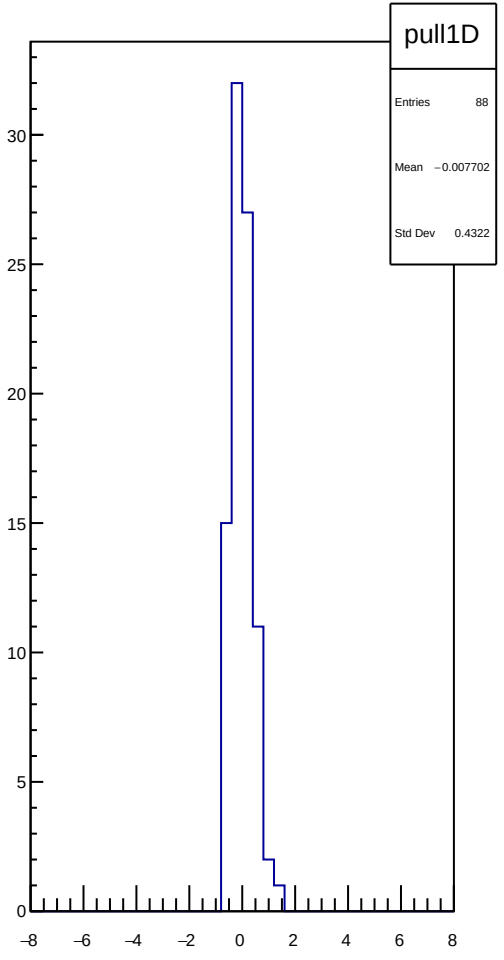

pull1D
Entries 88
Mean −0.002749
Std Dev 0.9913

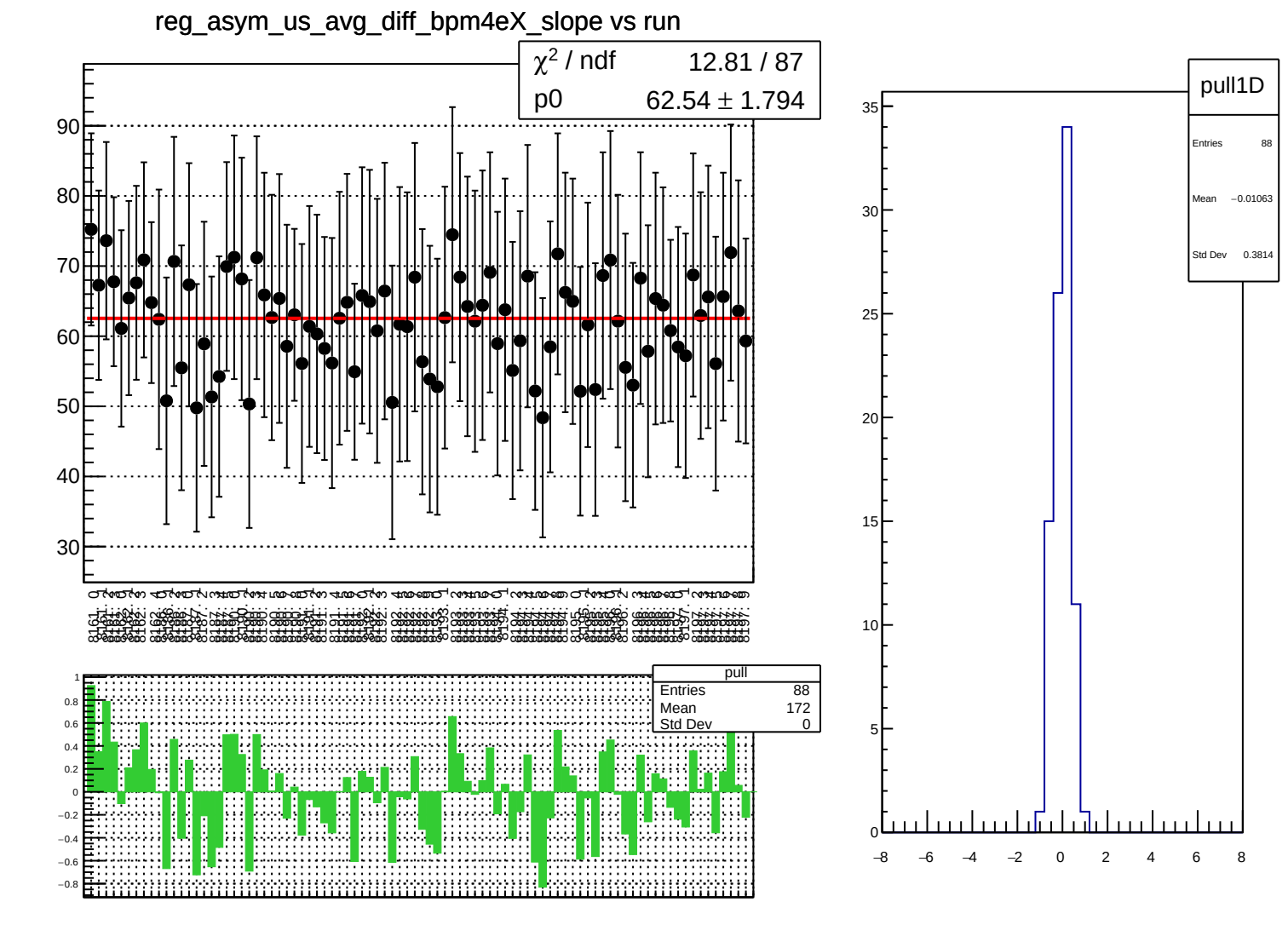

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 81.27 / 87
p0 0.04987 ± 0.02969
pull
Entries 88
Mean 2889
Std Dev 0
pull1D
Entries 88
Mean 0.0008262
Std Dev 0.961

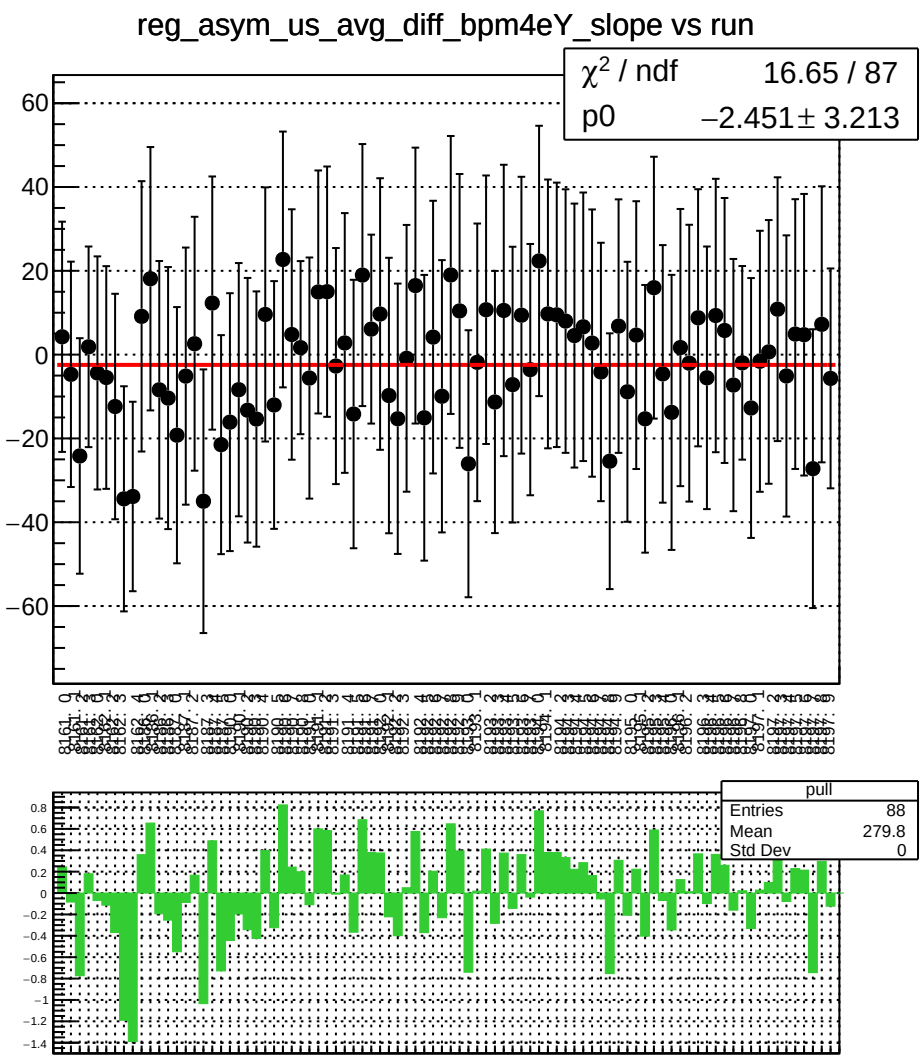

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 14.99 / 87
p0 −68 ± 1.793
pull
Entries 88
Mean 168.3
Std Dev 0

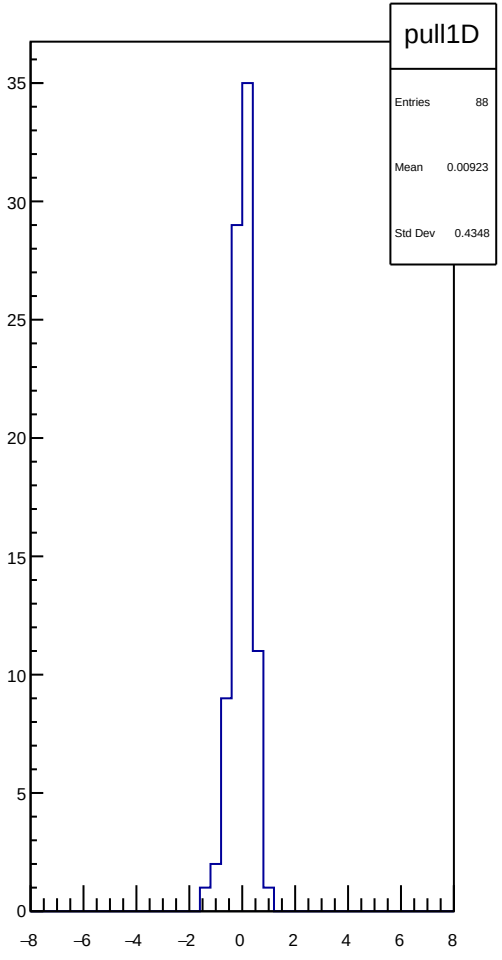

pull1D
Entries 88
Mean 0.01906
Std Dev 0.4123

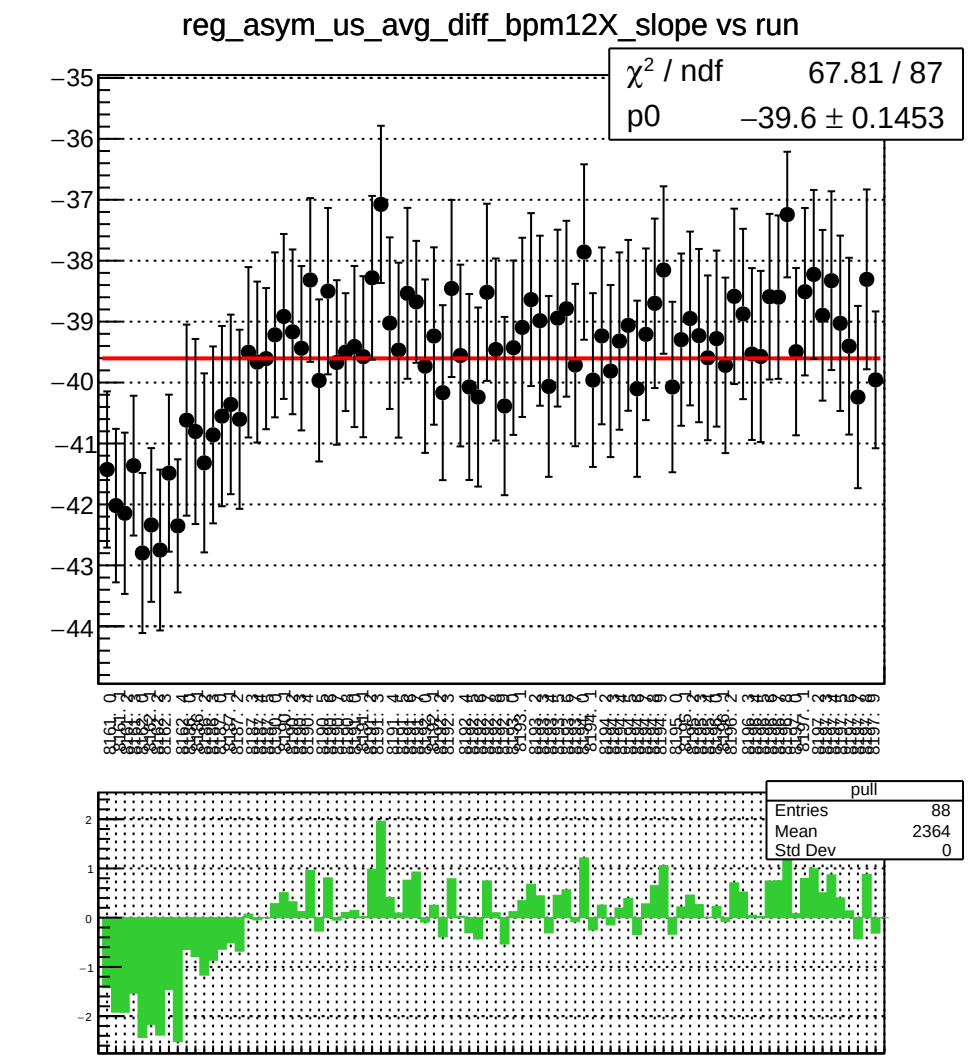

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.44 / 87
p0 20.78 ± 2.982
pull
Entries 88
Mean 323.9
Std Dev 0

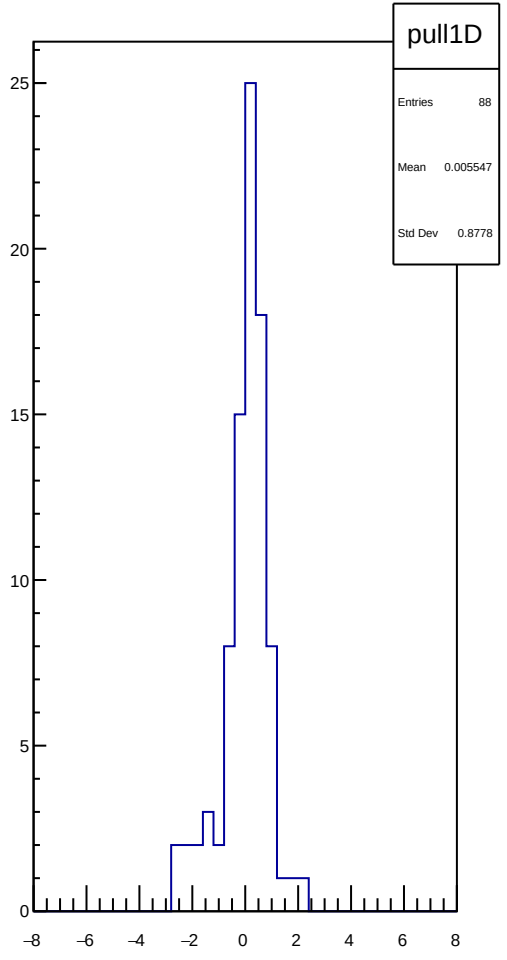

pull1D
Entries 88
Mean −0.007702
Std Dev 0.4322

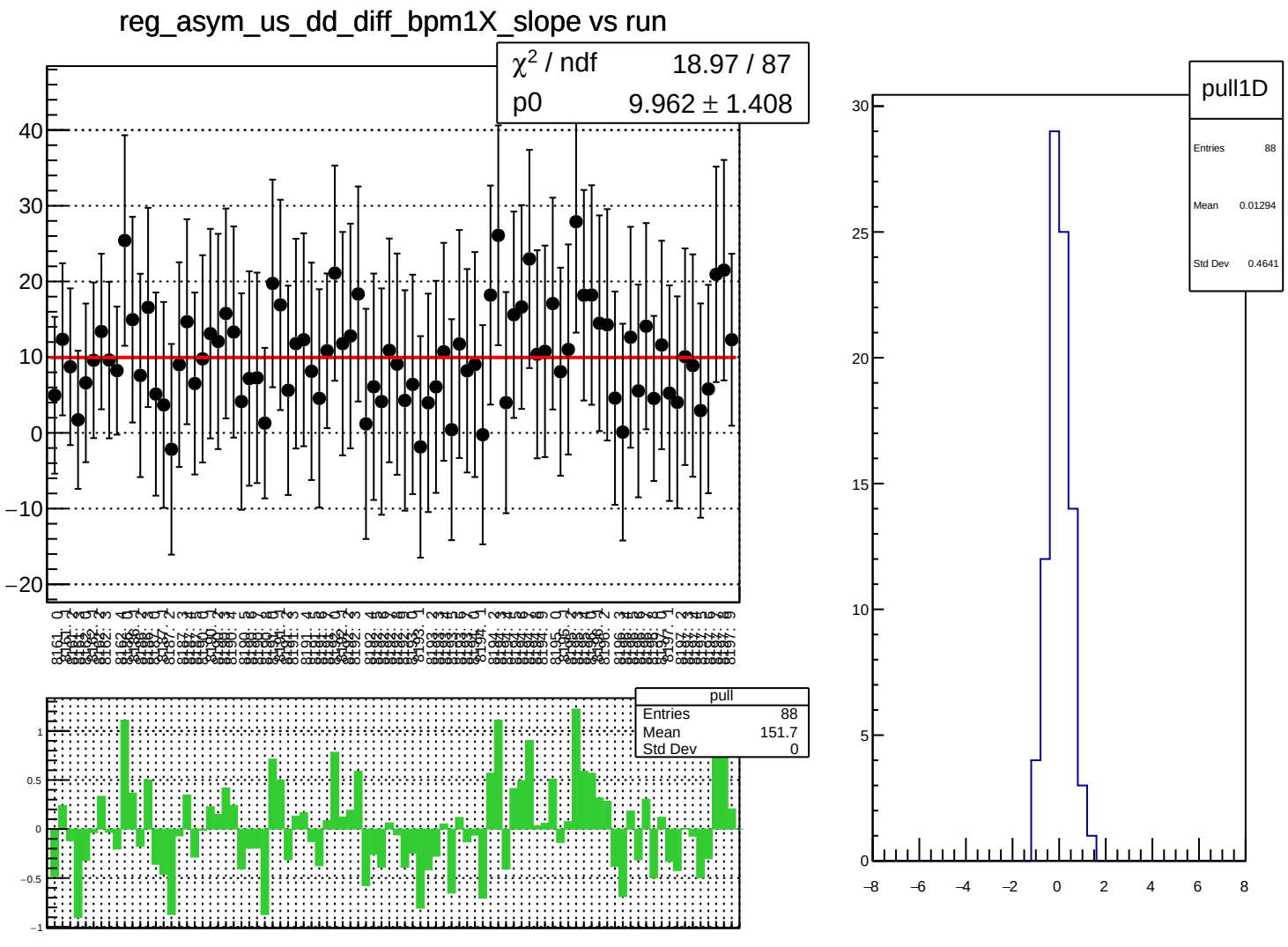

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.81 / 87
p0 62.54 ± 1.794
pull
Entries 88
Mean 172
Std Dev 0
pull1D
Entries 88
Mean −0.01063
Std Dev 0.3814

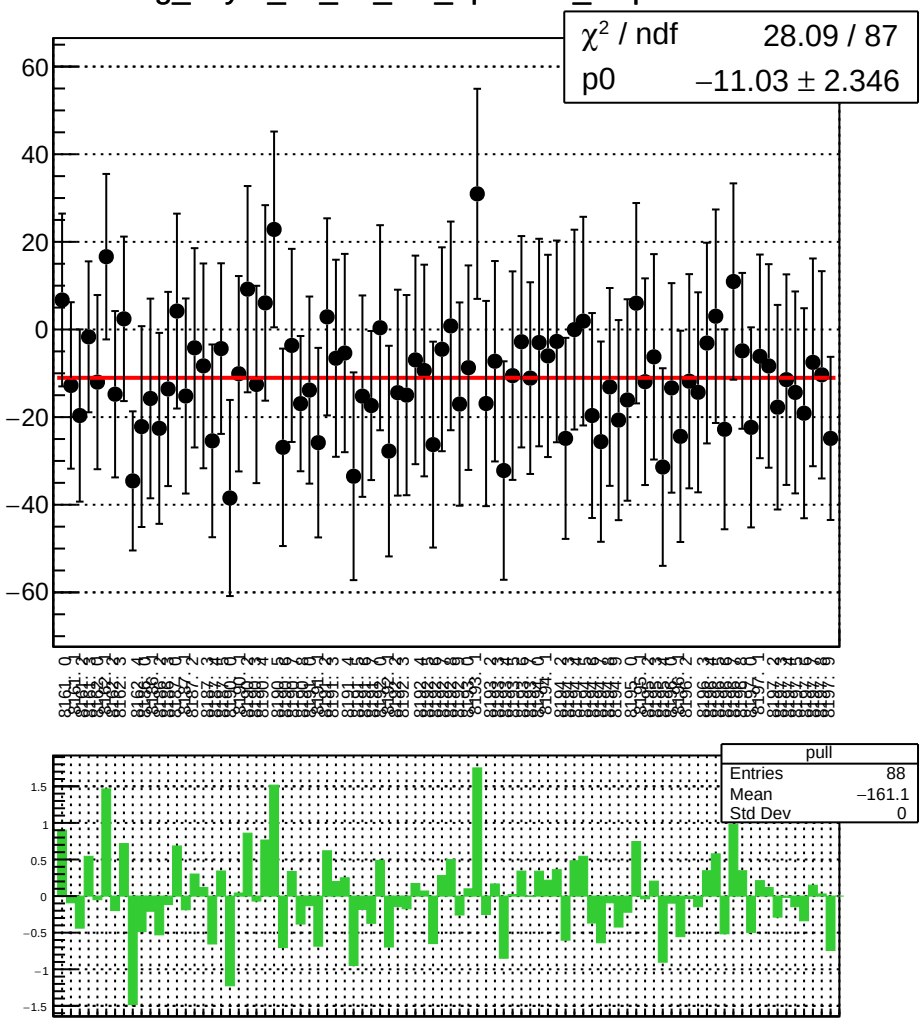

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.65 / 87
p0 −2.451 ± 3.213
pull
Entries 88
Mean 279.8
Std Dev 0

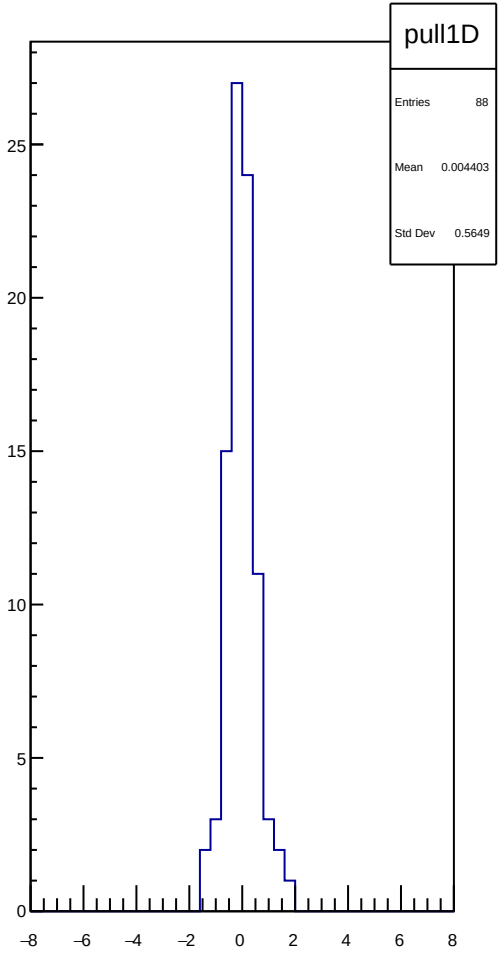

pull1D
Entries 88
Mean 0.00923
Std Dev 0.4348

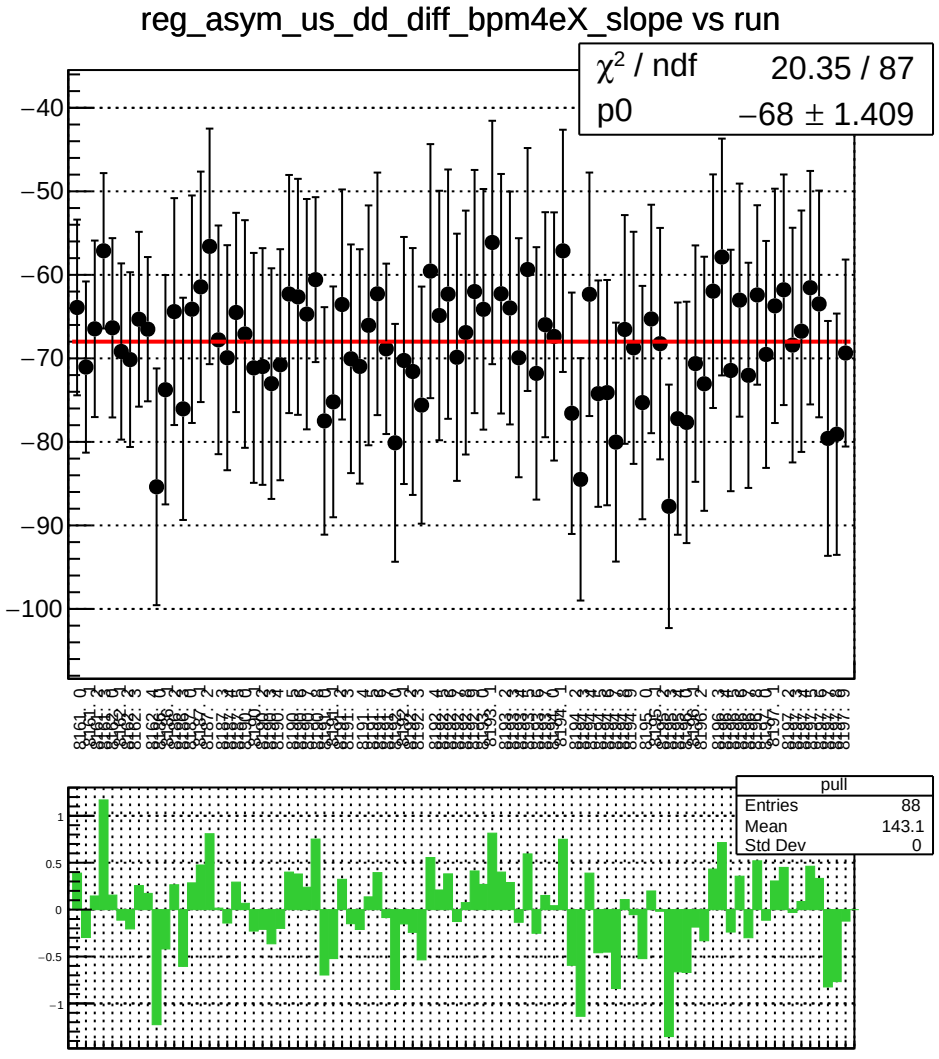

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 67.81 / 87
p0 −39.6 ± 0.1453
pull
Entries 88
Mean 2364
Std Dev 0

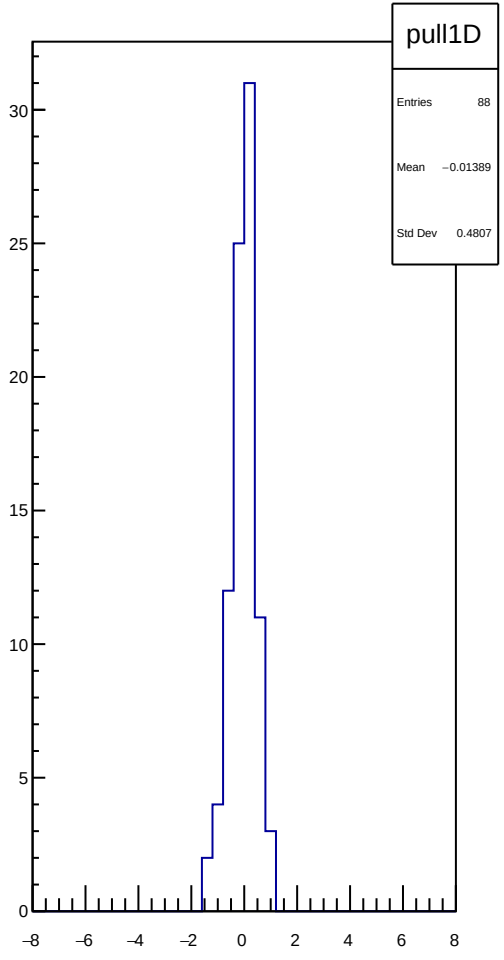

pull1D
Entries 88
Mean 0.005547
Std Dev 0.8778

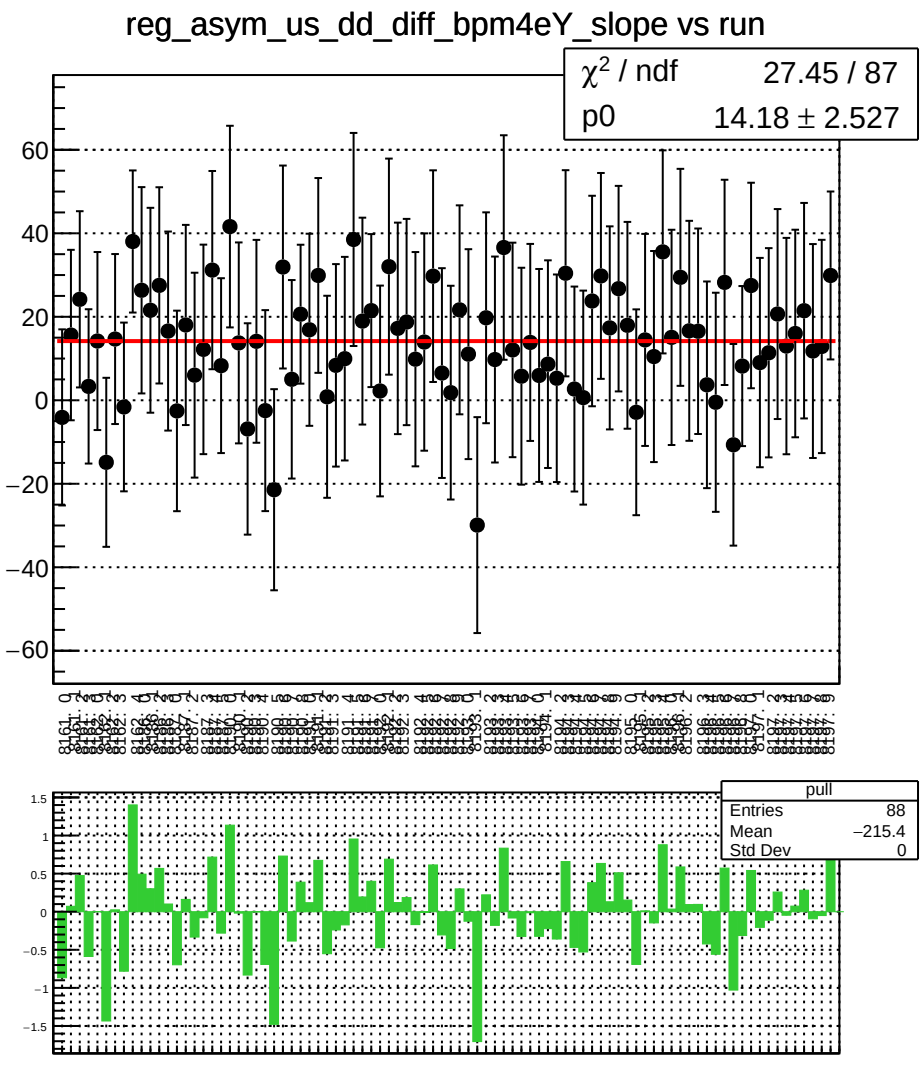

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 18.97 / 87
p0 9.962 ± 1.408
pull
Entries 88
Mean 151.7
Std Dev 0
pull1D
Entries 88
Mean 0.01294
Std Dev 0.4641

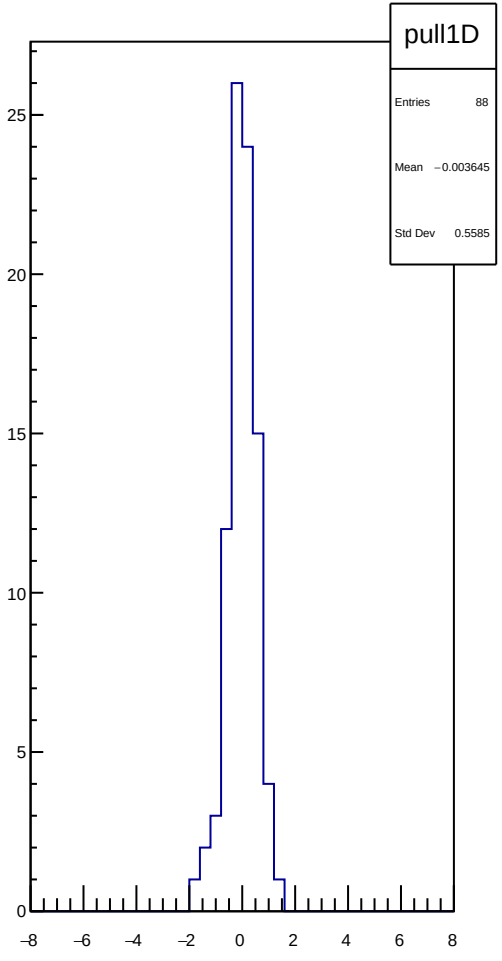

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.09 / 87
p0 −11.03 ± 2.346
pull
Entries 88
Mean −161.1
Std Dev 0

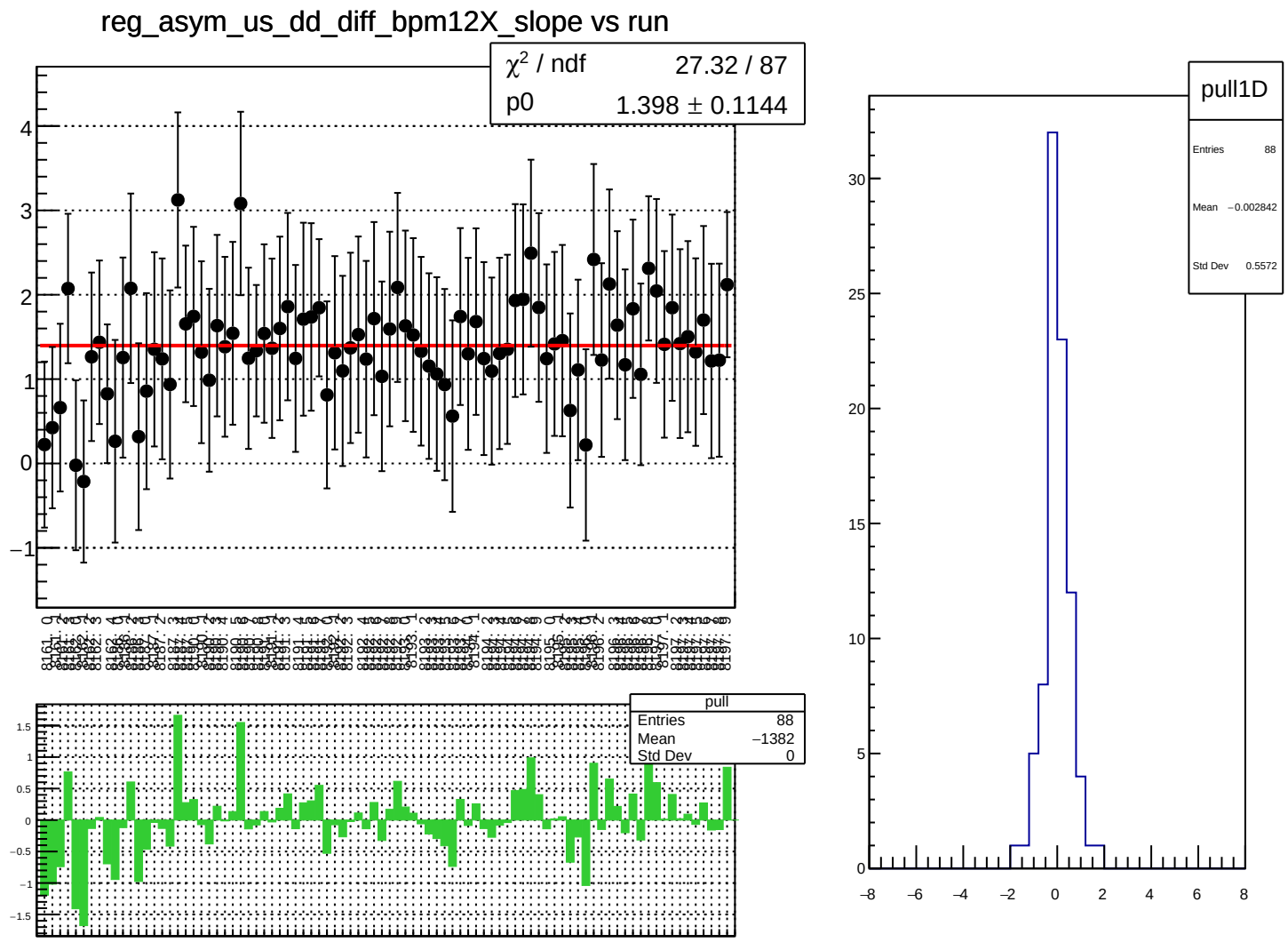

pull1D
Entries 88
Mean 0.004403
Std Dev 0.5649

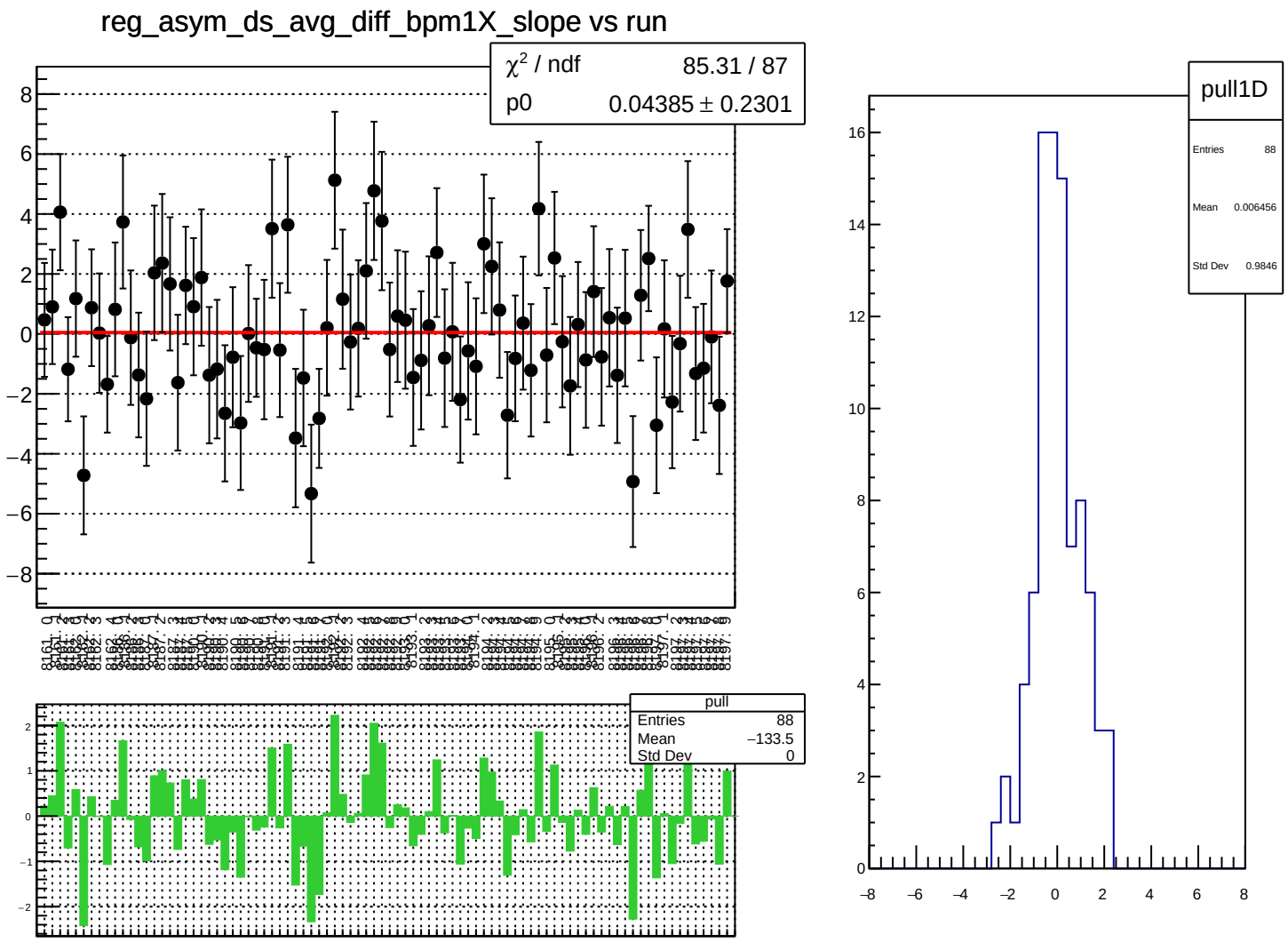

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.35 / 87
p0 −68 ± 1.409
−40
−50
−60
−70
−80
−90
−100
pull
Entries 88
Mean 143.1
Std Dev 0
1
0.5
0
−0.5
−1

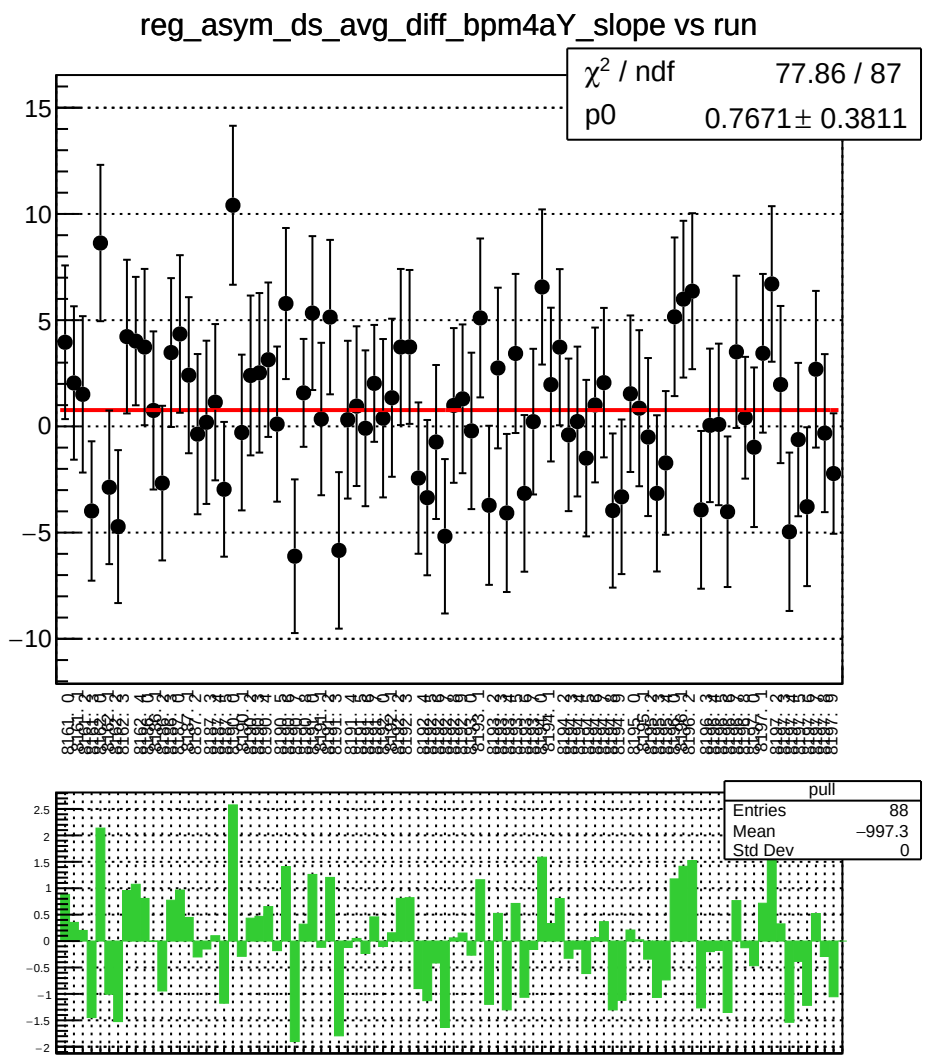

pull1D
Entries 88
Mean −0.01389
Std Dev 0.4807
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

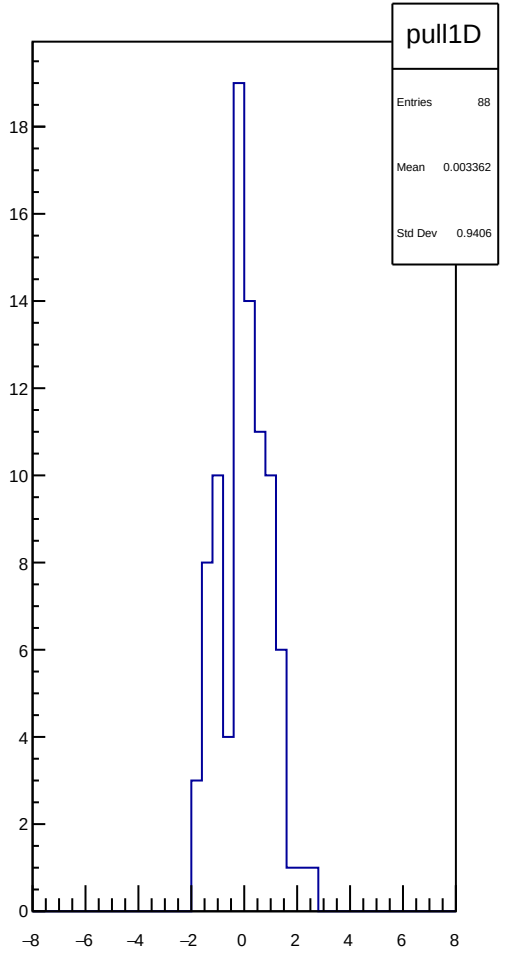

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.45 / 87
p0 14.18 ± 2.527
pull
Entries 88
Mean −215.4
Std Dev 0

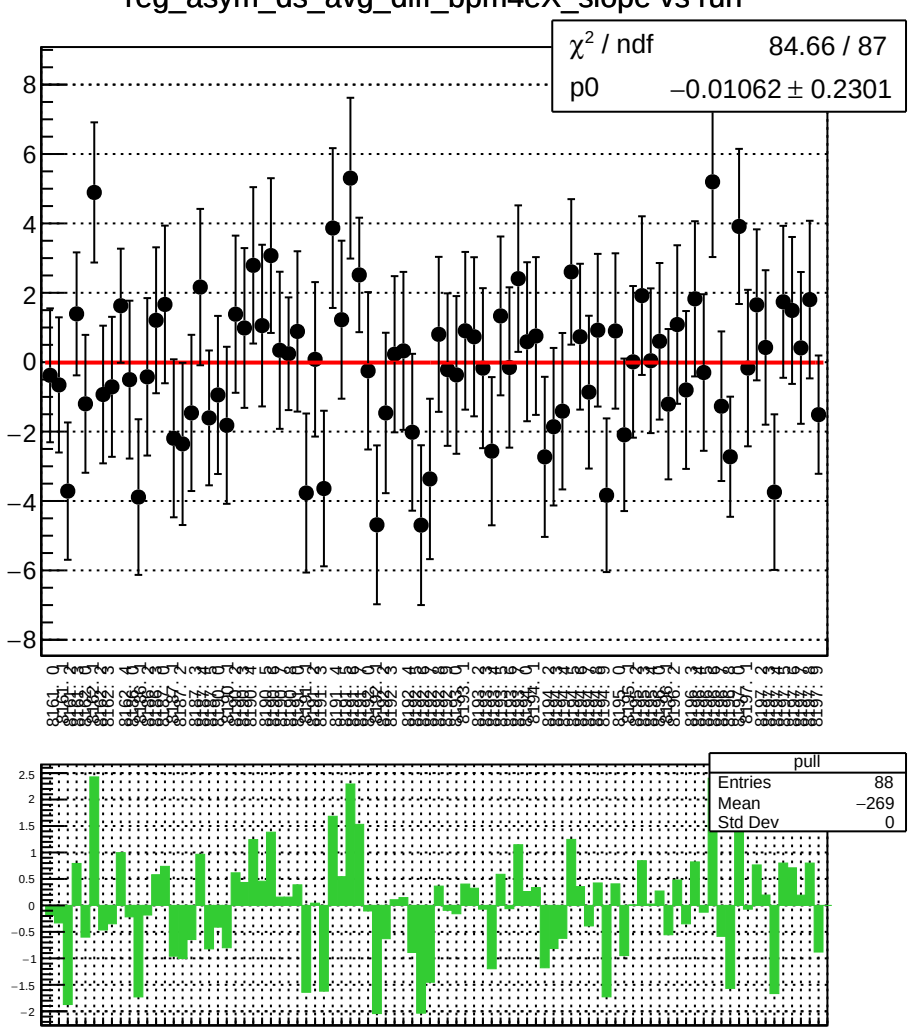

pull1D
Entries 88
Mean −0.003645
Std Dev 0.5585

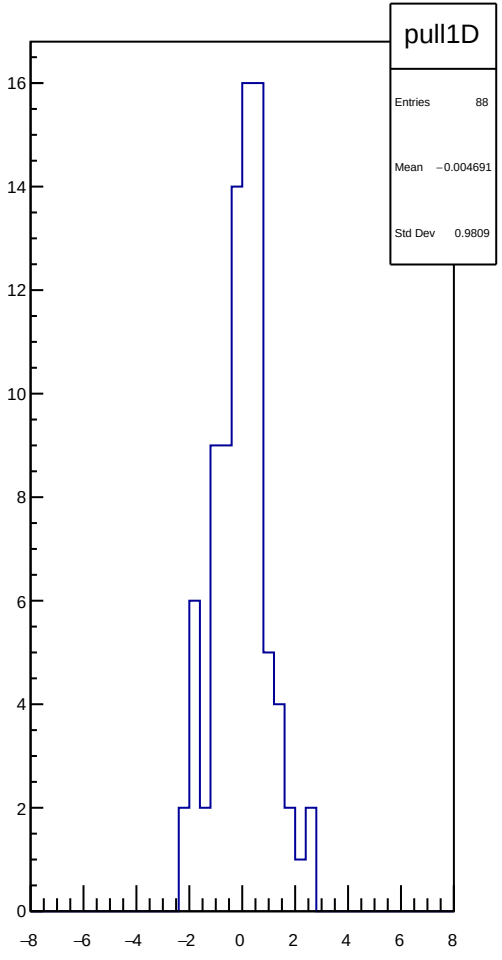

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 27.32 / 87
p0 1.398 ± 0.1144
pull
Entries 88
Mean −1382
Std Dev 0
pull1D
Entries 88
Mean −0.002842
Std Dev 0.5572

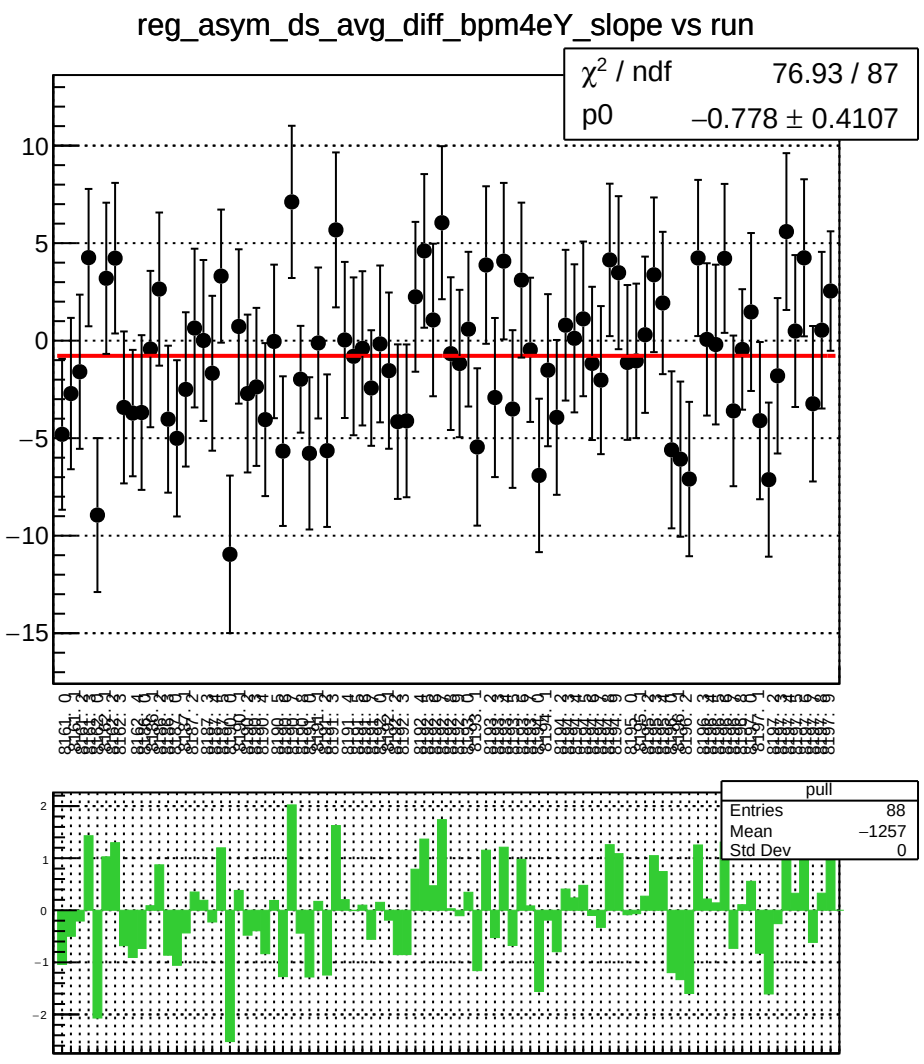

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 85.31 / 87
p0 0.04385 ± 0.2301
pull
Entries 88
Mean −133.5
Std Dev 0
pull1D
Entries 88
Mean 0.006456
Std Dev 0.9846

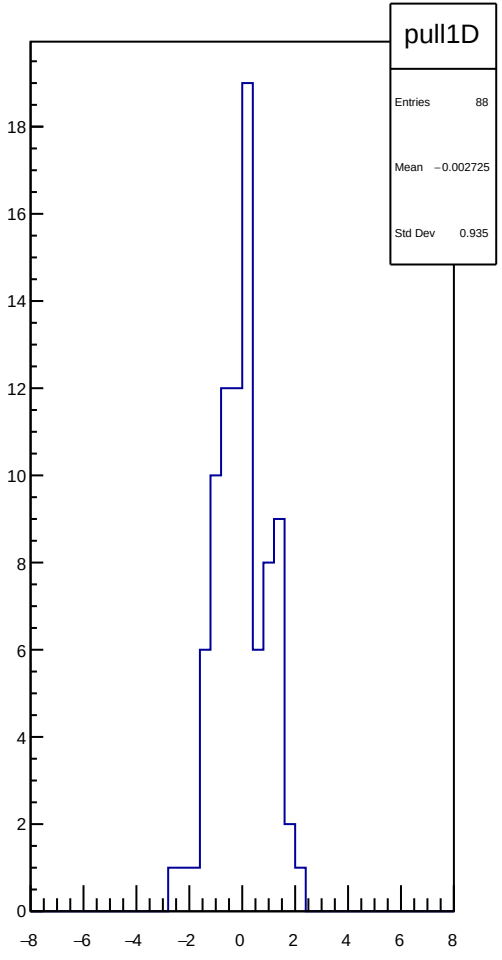

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.86 / 87
p0 0.7671± 0.3811
pull
Entries 88
Mean −997.3
Std Dev 0

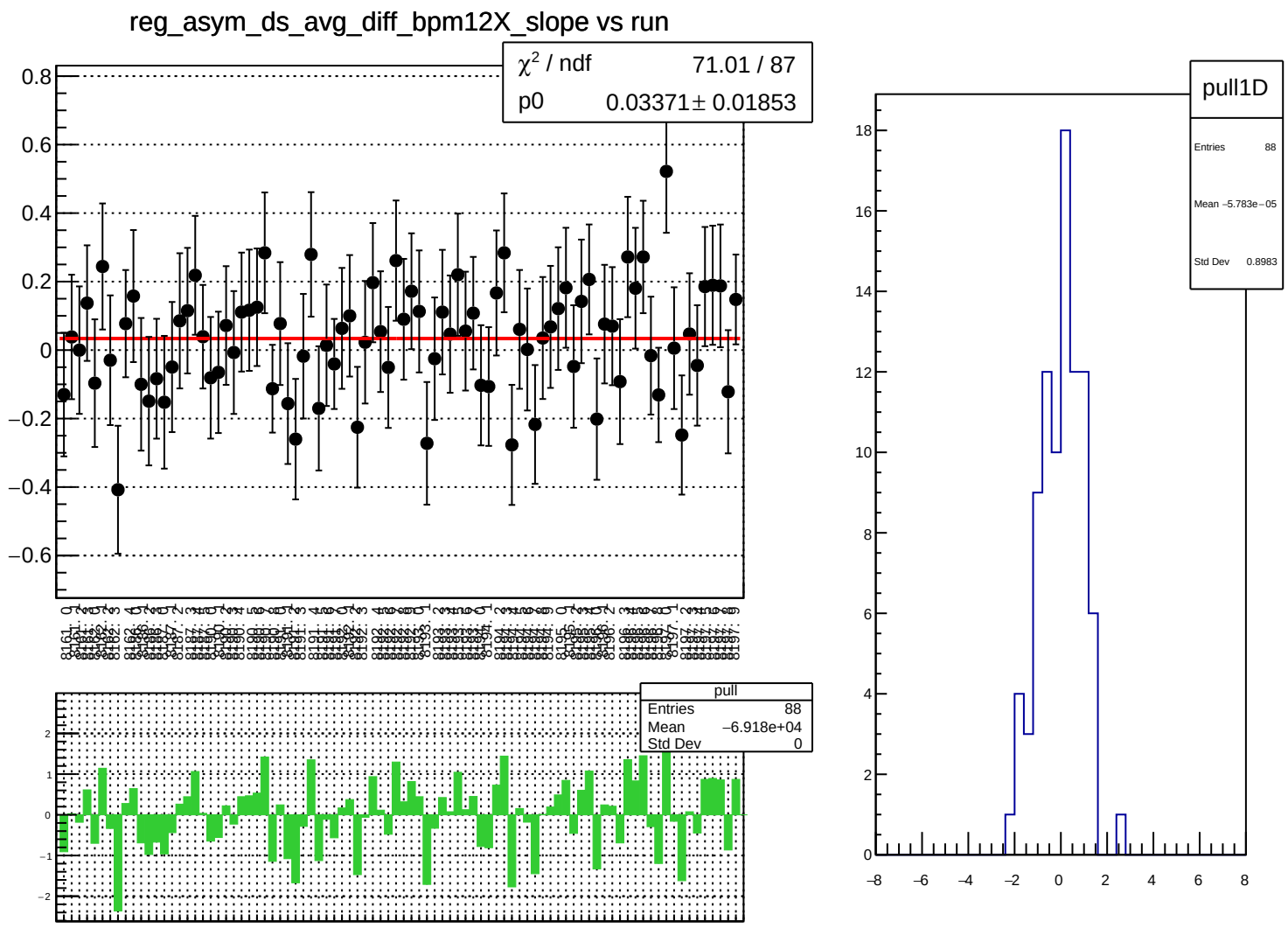

pull1D
Entries 88
Mean 0.003362
Std Dev 0.9406

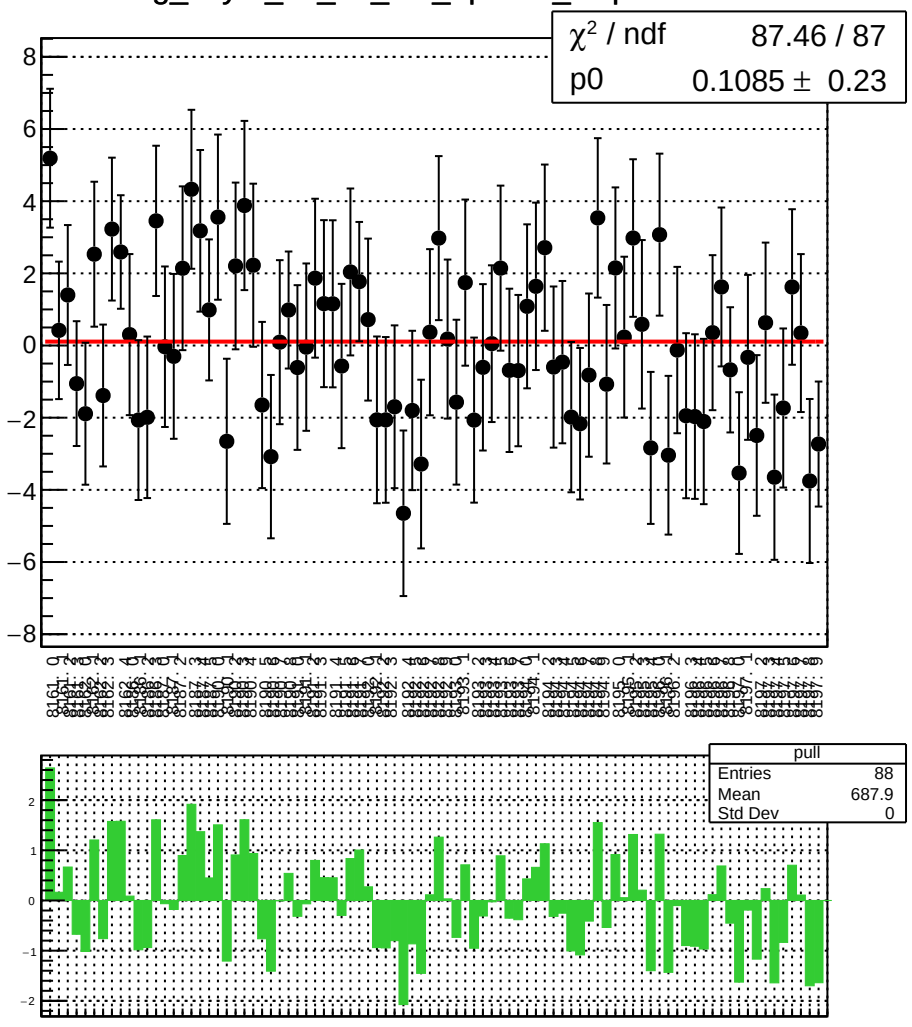

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.66 / 87
p0 −0.01062 ± 0.2301
pull
Entries 88
Mean −269
Std Dev 0

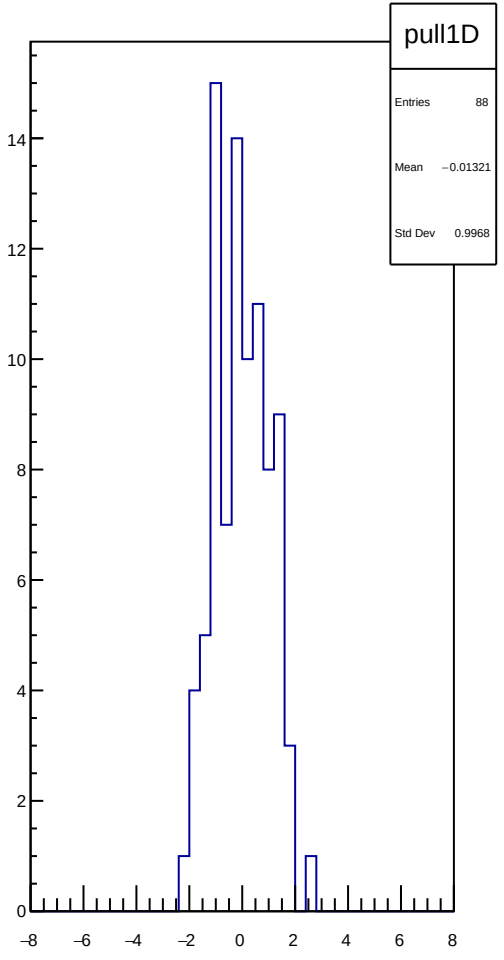

pull1D
Entries 88
Mean −0.004691
Std Dev 0.9809

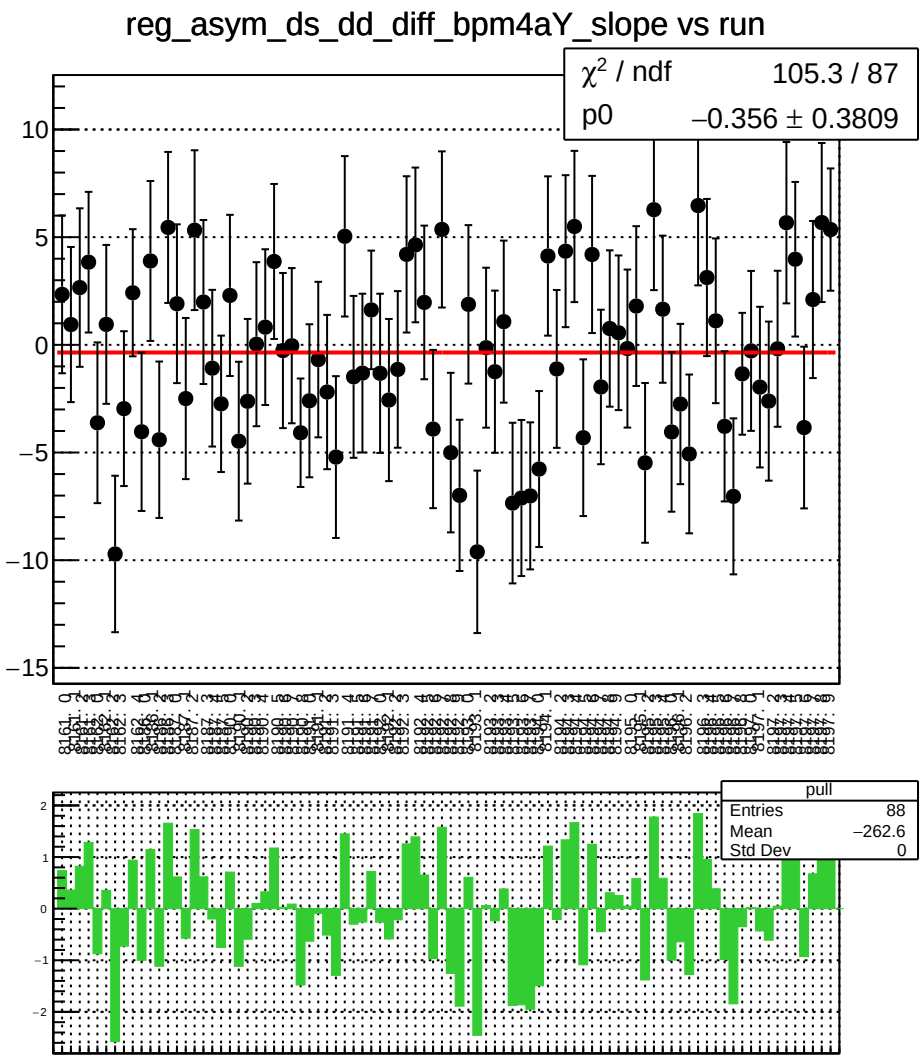

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.93 / 87
p0 −0.778 ± 0.4107
pull
Entries 88
Mean −1257
Std Dev 0

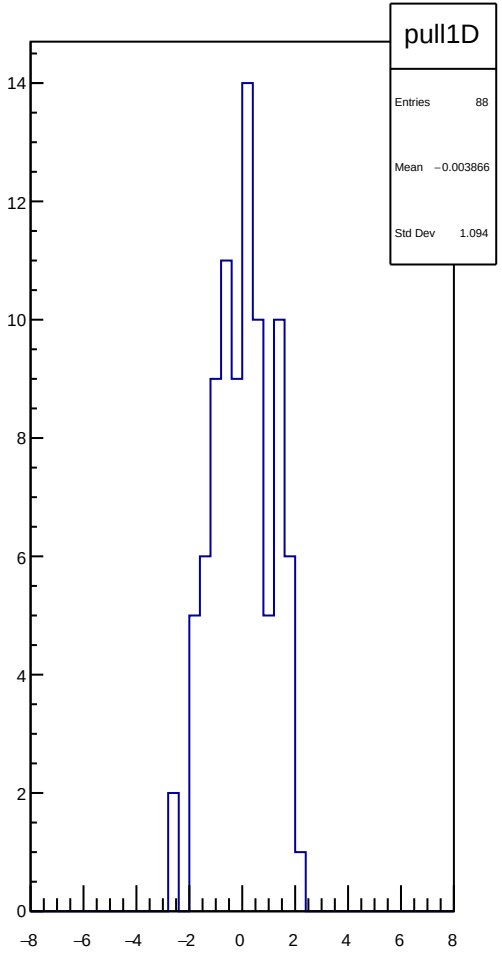

pull1D
Entries 88
Mean −0.002725
Std Dev 0.935

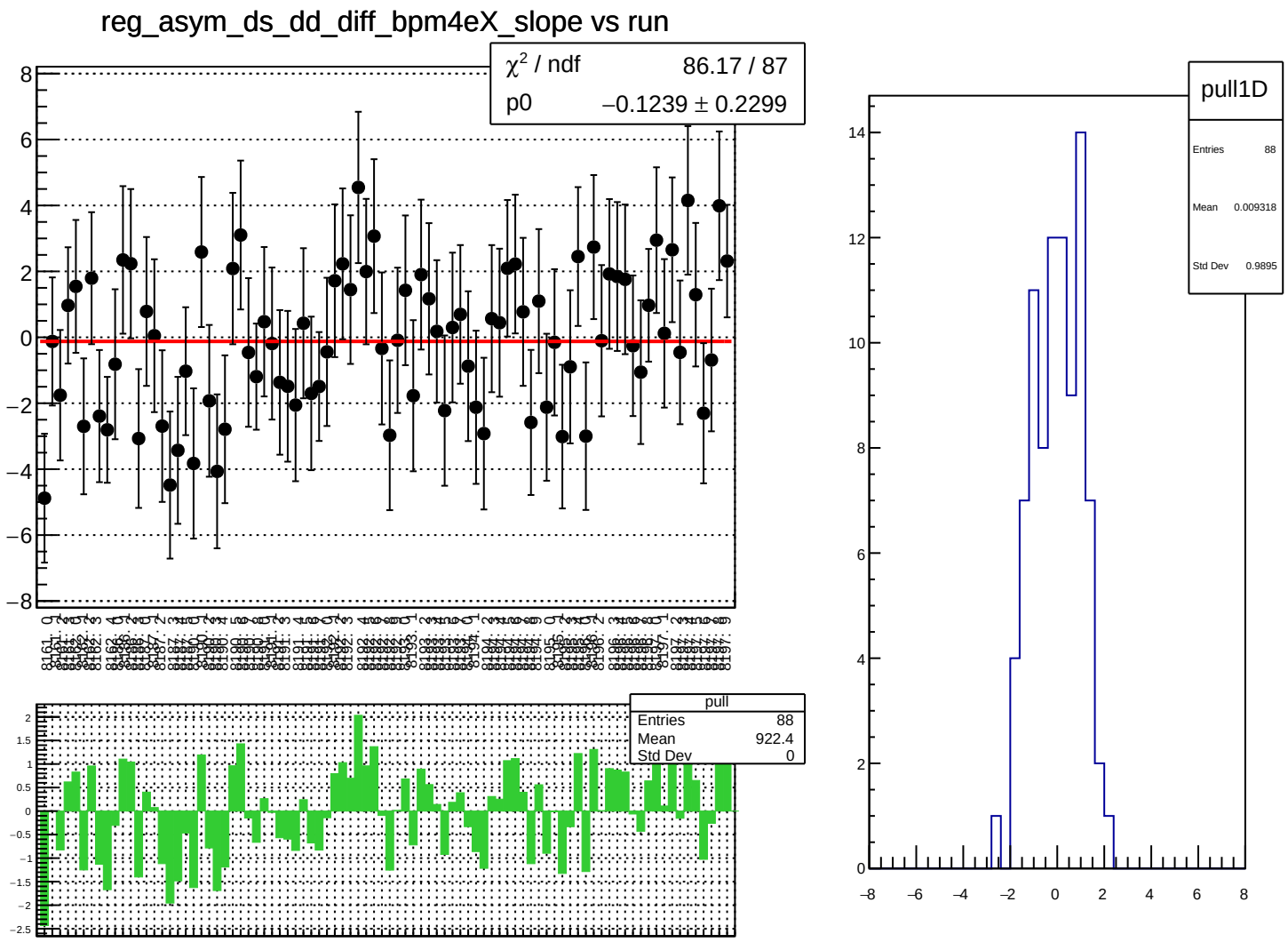

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 71.01 / 87
p0 0.03371 ± 0.01853
pull
Entries 88
Mean −6.918e+04
Std Dev 0
pull1D
Entries 88
Mean −5.783e−05
Std Dev 0.8983

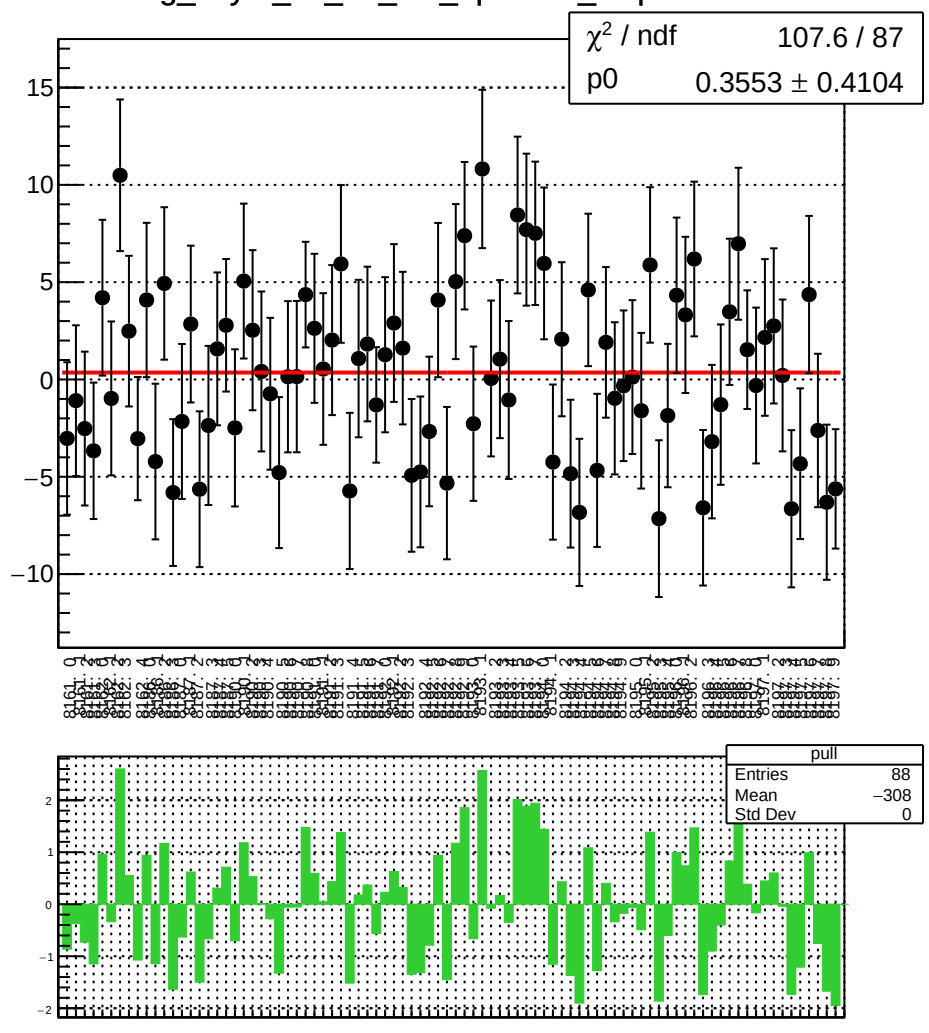

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 87.46 / 87
p0 0.1085 ± 0.23
pull
Entries 88
Mean 687.9
Std Dev 0

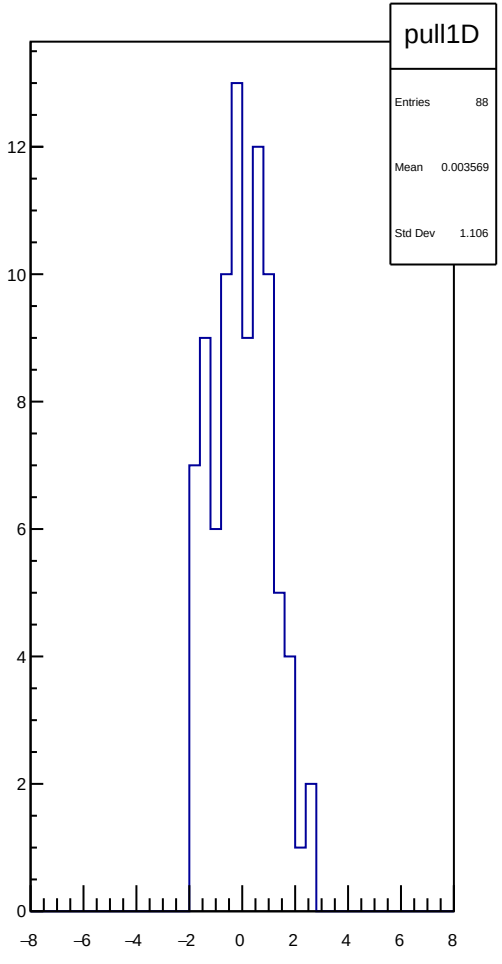

pull1D
Entries 88
Mean −0.01321
Std Dev 0.9968

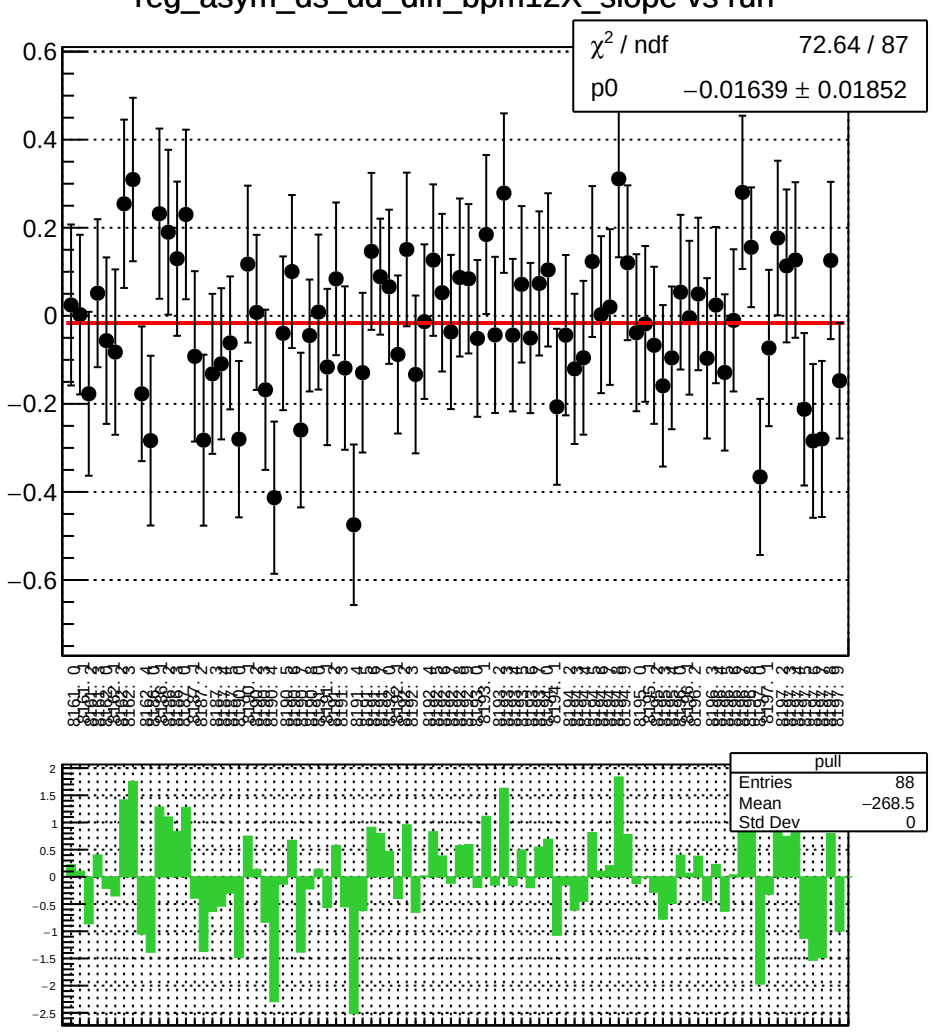

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 105.3 / 87
p0 −0.356 ± 0.3809
pull
Entries 88
Mean −262.6
Std Dev 0

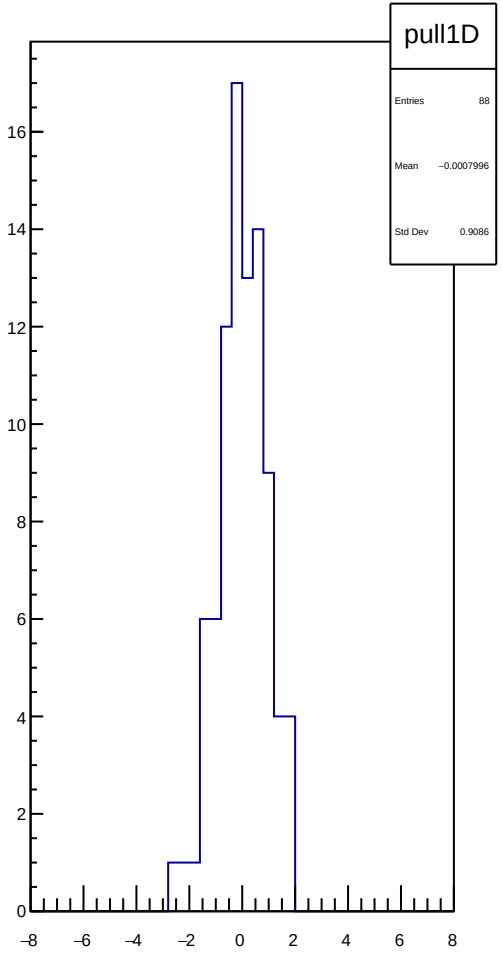

pull1D
Entries 88
Mean −0.003866
Std Dev 1.094

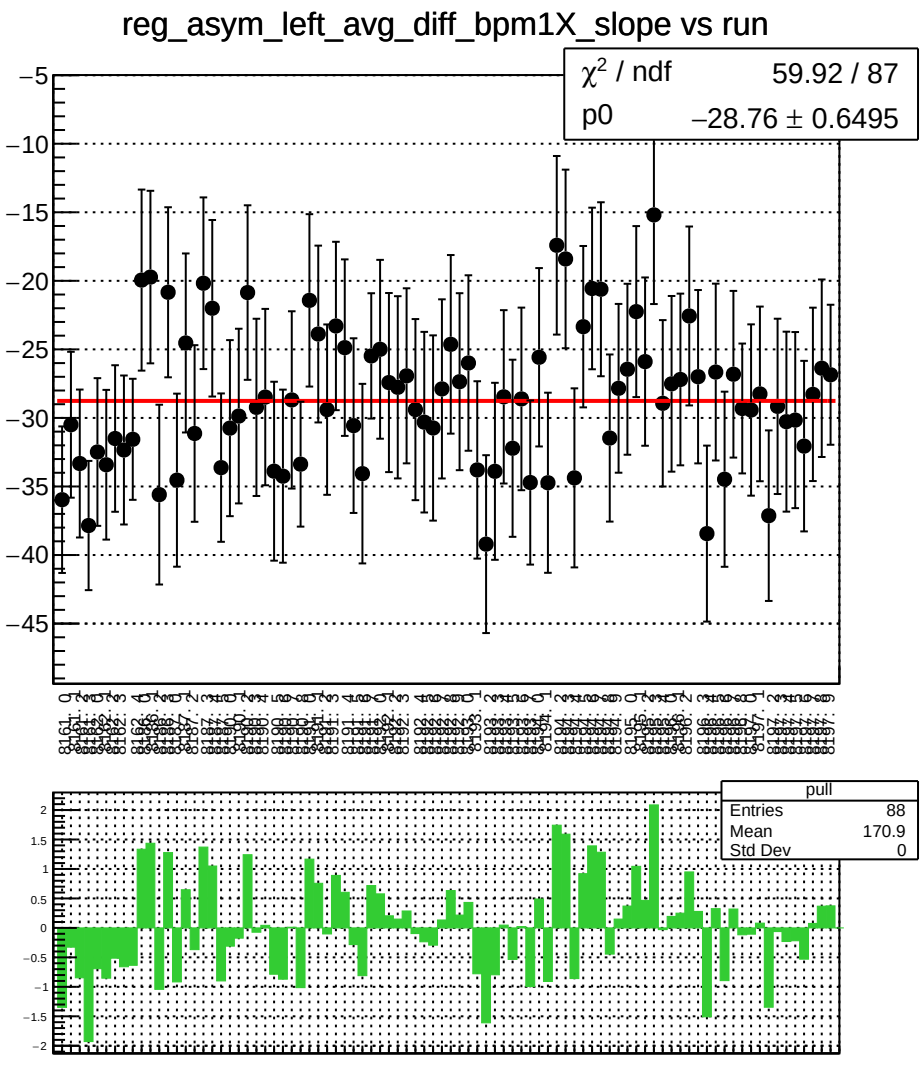

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.17 / 87
p0 −0.1239 ± 0.2299
pull
Entries 88
Mean 922.4
Std Dev 0
pull1D
Entries 88
Mean 0.009318
Std Dev 0.9895

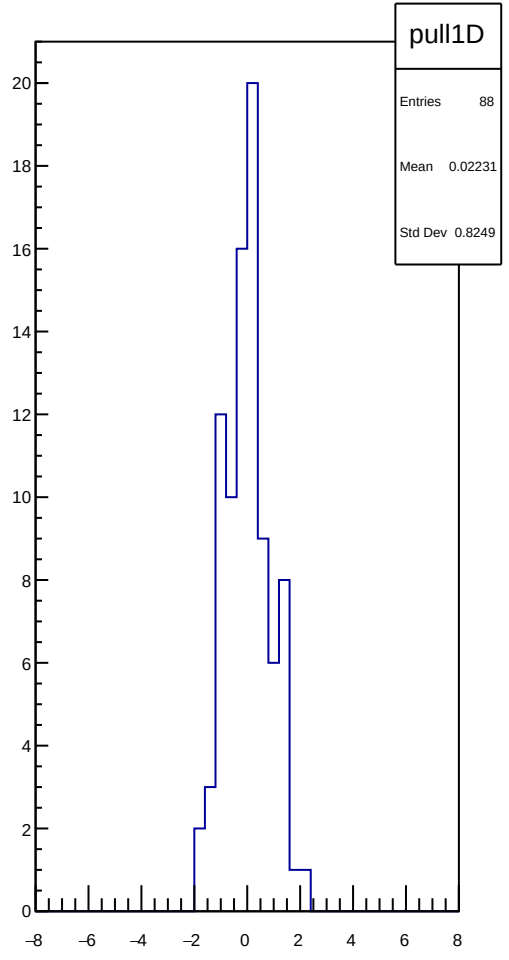

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.6 / 87
p0 0.3553 ± 0.4104
pull
Entries 88
Mean −308
Std Dev 0

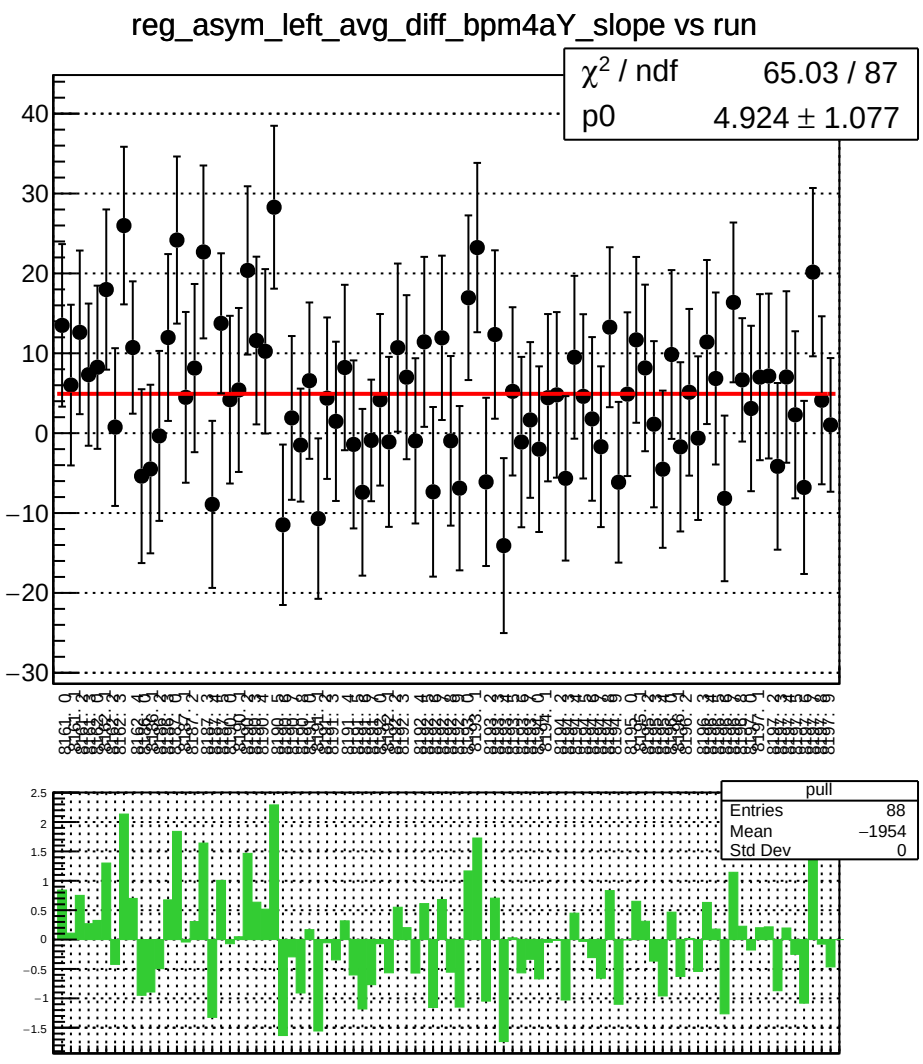

pull1D
Entries 88
Mean 0.003569
Std Dev 1.106

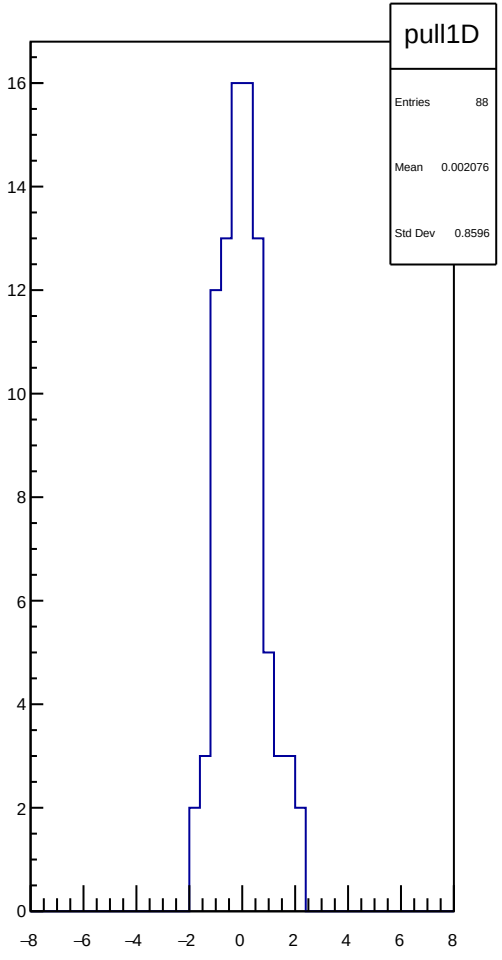

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 72.64 / 87
p0 −0.01639 ± 0.01852
pull
Entries 88
Mean −268.5
Std Dev 0

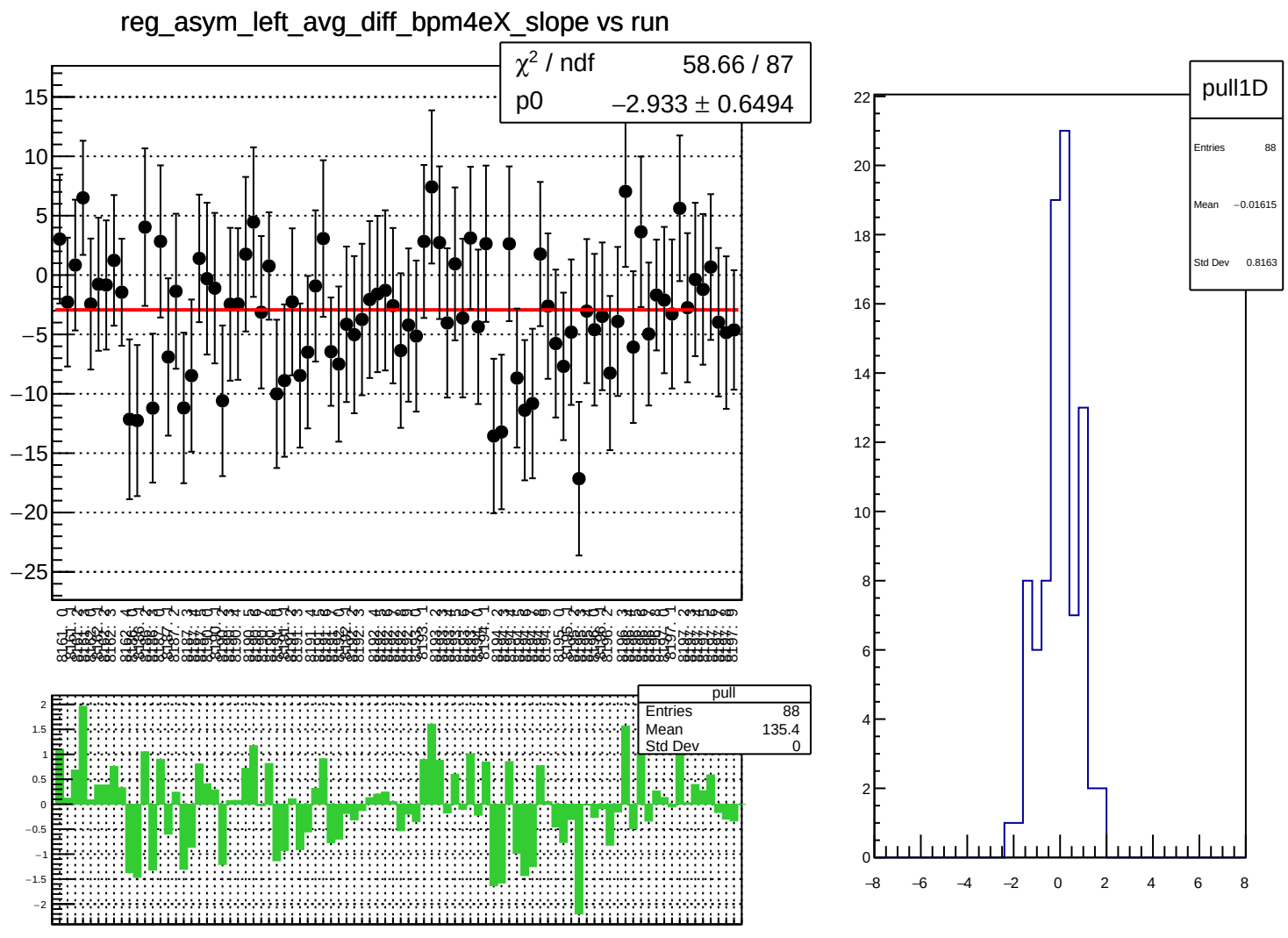

pull1D
Entries 88
Mean −0.0007996
Std Dev 0.9086

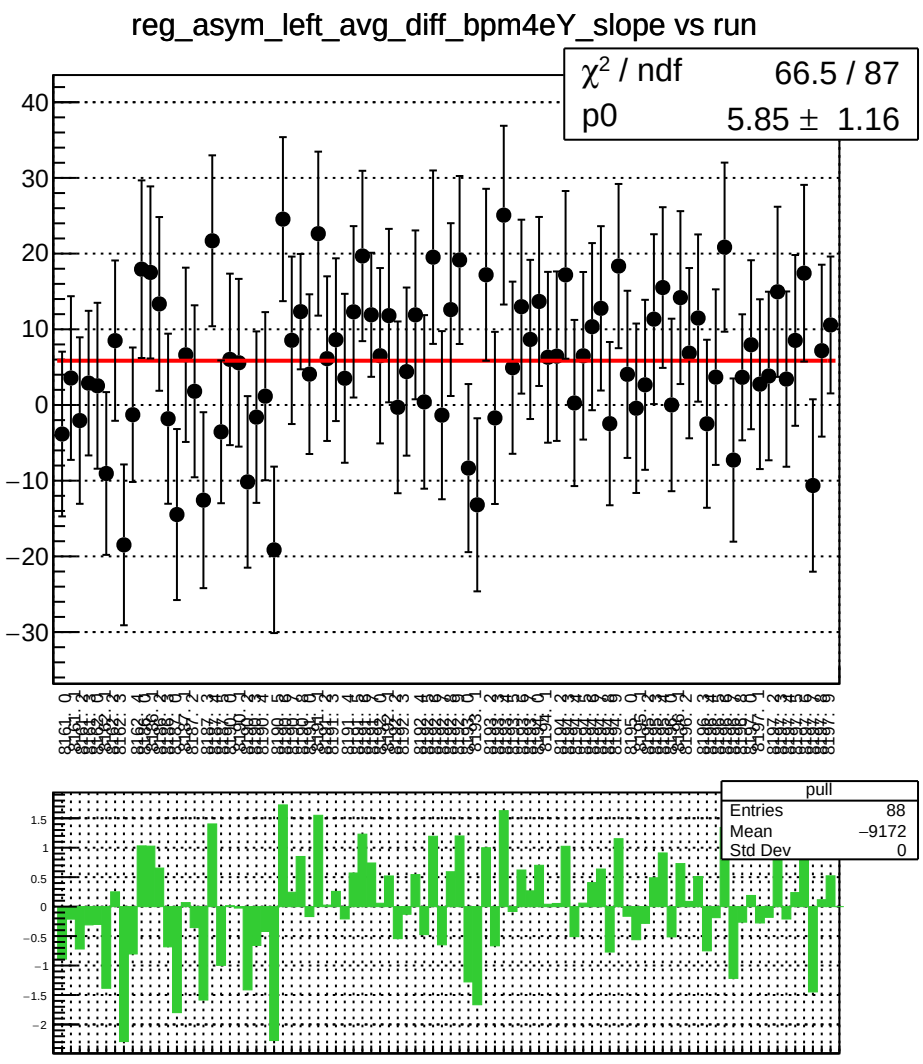

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 59.92 / 87
p0 −28.76 ± 0.6495
pull
Entries 88
Mean 170.9
Std Dev 0

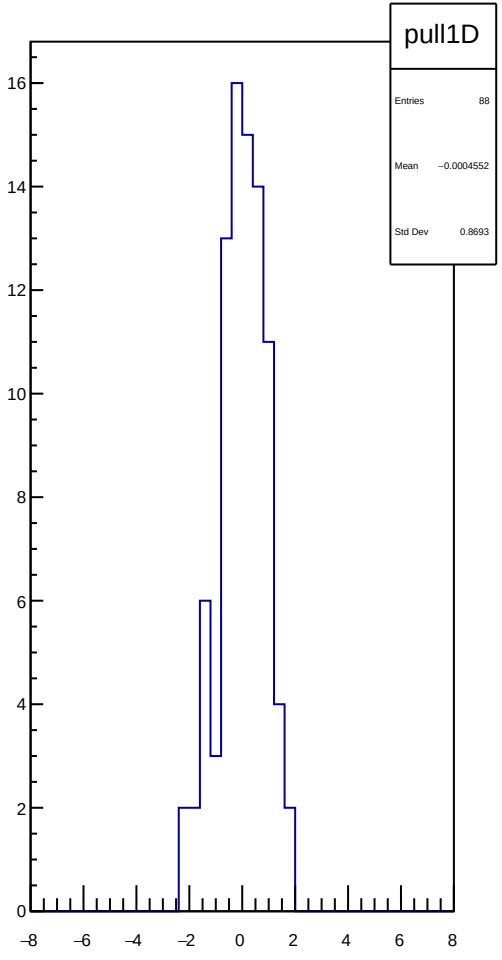

pull1D
Entries 88
Mean 0.02231
Std Dev 0.8249

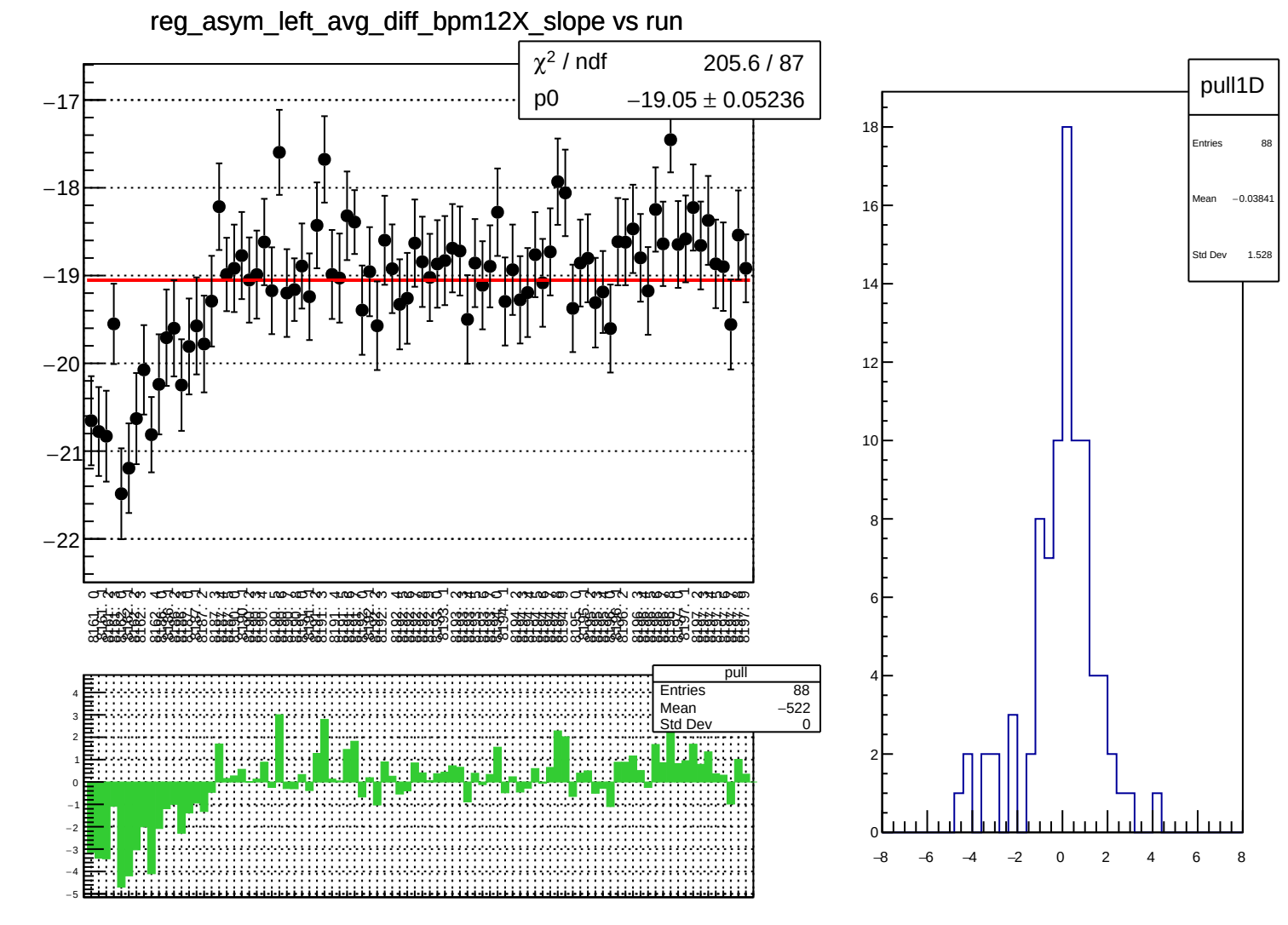

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.03 / 87
p0 4.924 ± 1.077
pull
Entries 88
Mean −1954
Std Dev 0

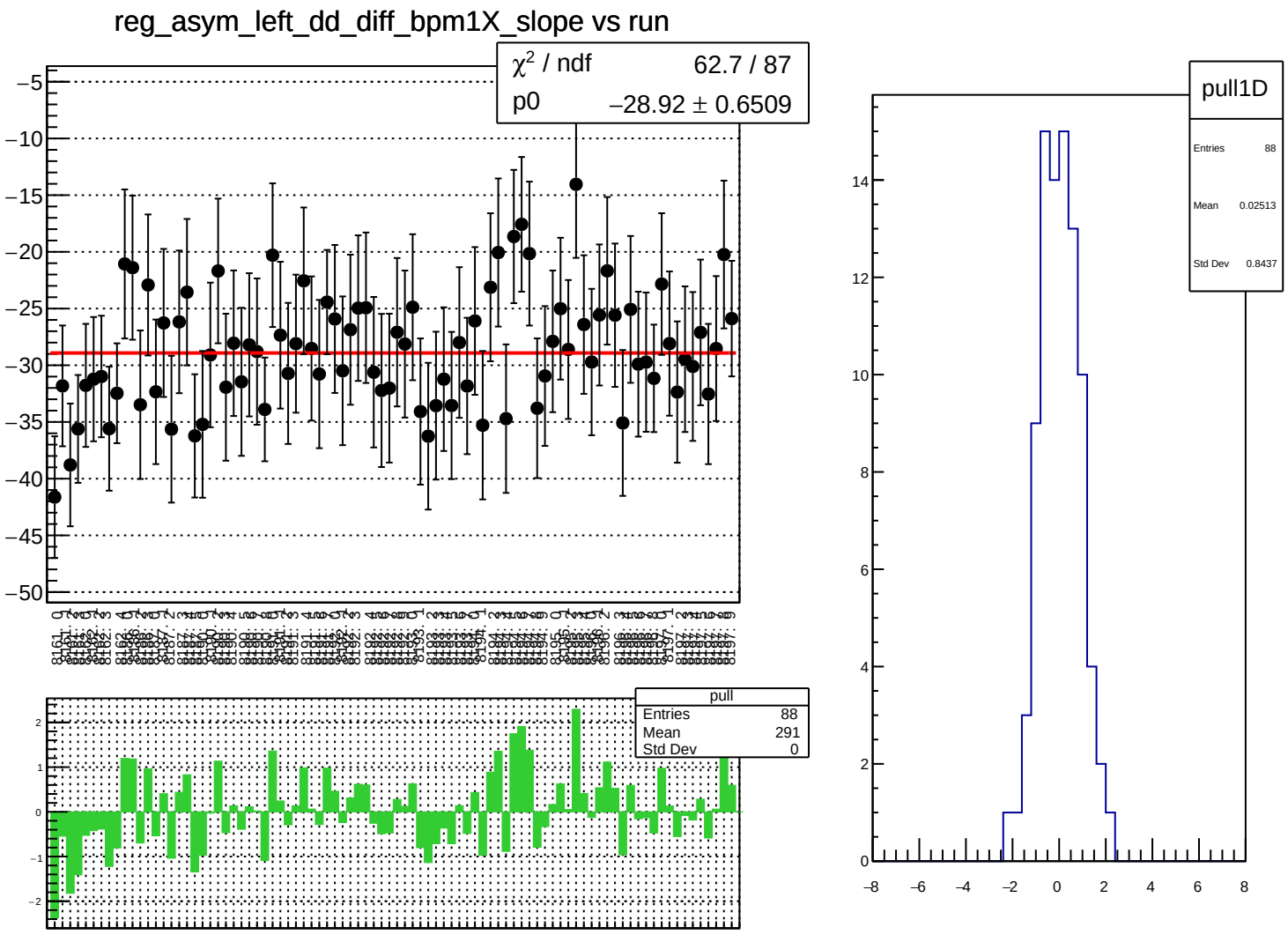

pull1D
Entries 88
Mean 0.002076
Std Dev 0.8596

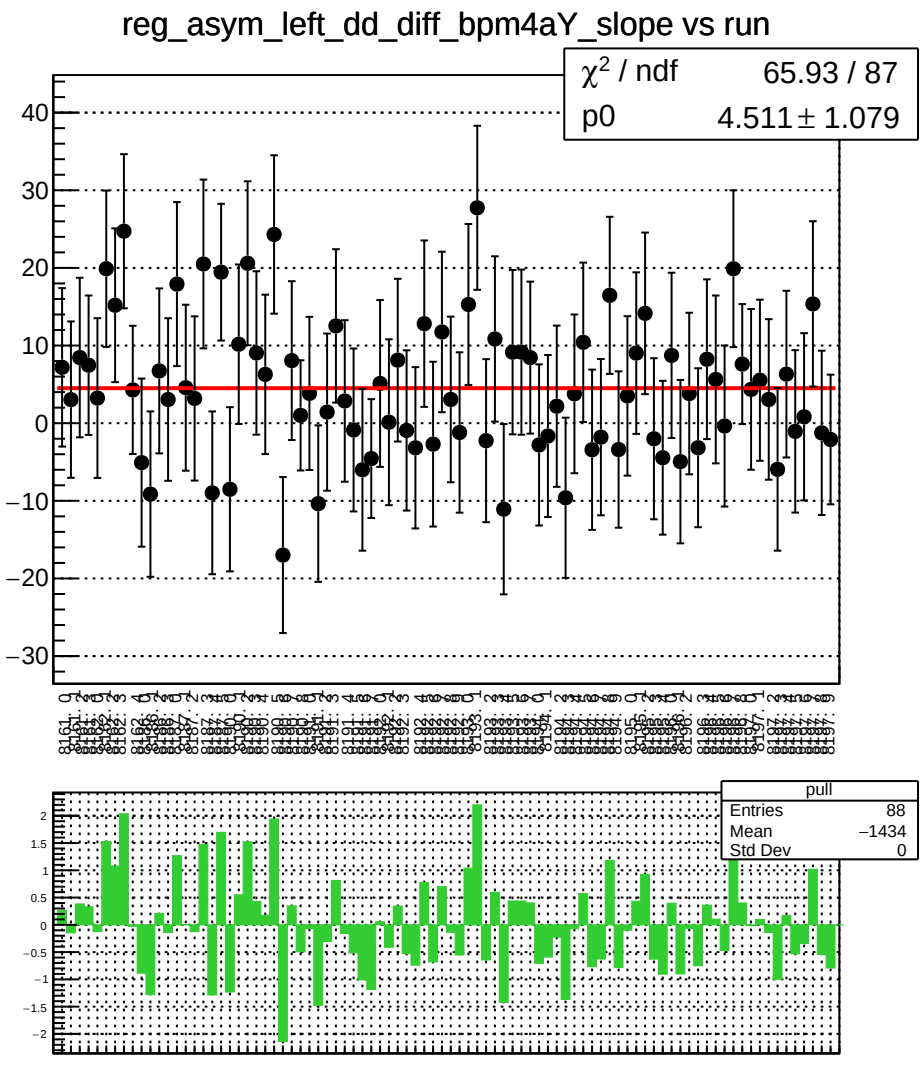

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.66 / 87
p0 −2.933 ± 0.6494
pull
Entries 88
Mean 135.4
Std Dev 0
pull1D
Entries 88
Mean −0.01615
Std Dev 0.8163

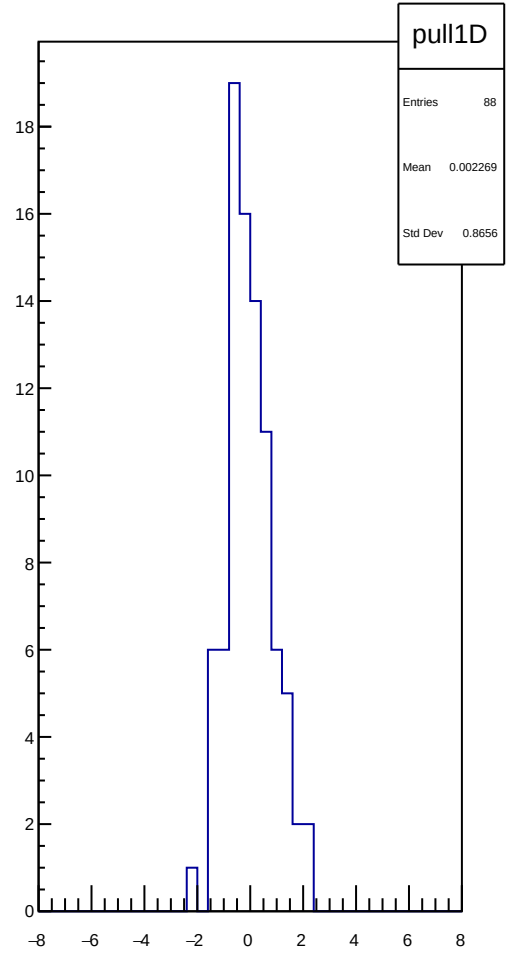

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.5 / 87
p0 5.85 ± 1.16
pull
Entries 88
Mean −9172
Std Dev 0

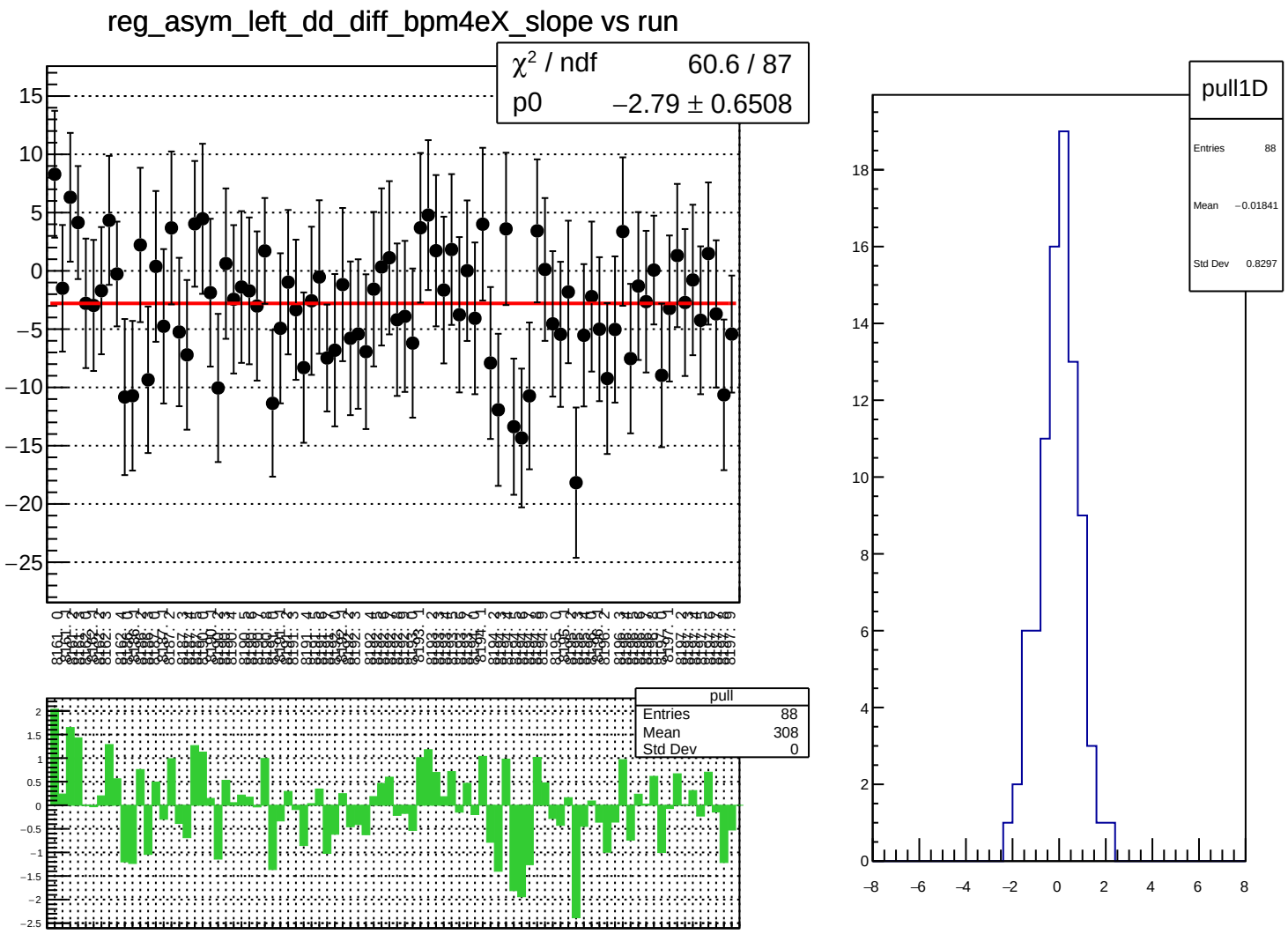

pull1D
Entries 88
Mean −0.0004552
Std Dev 0.8693

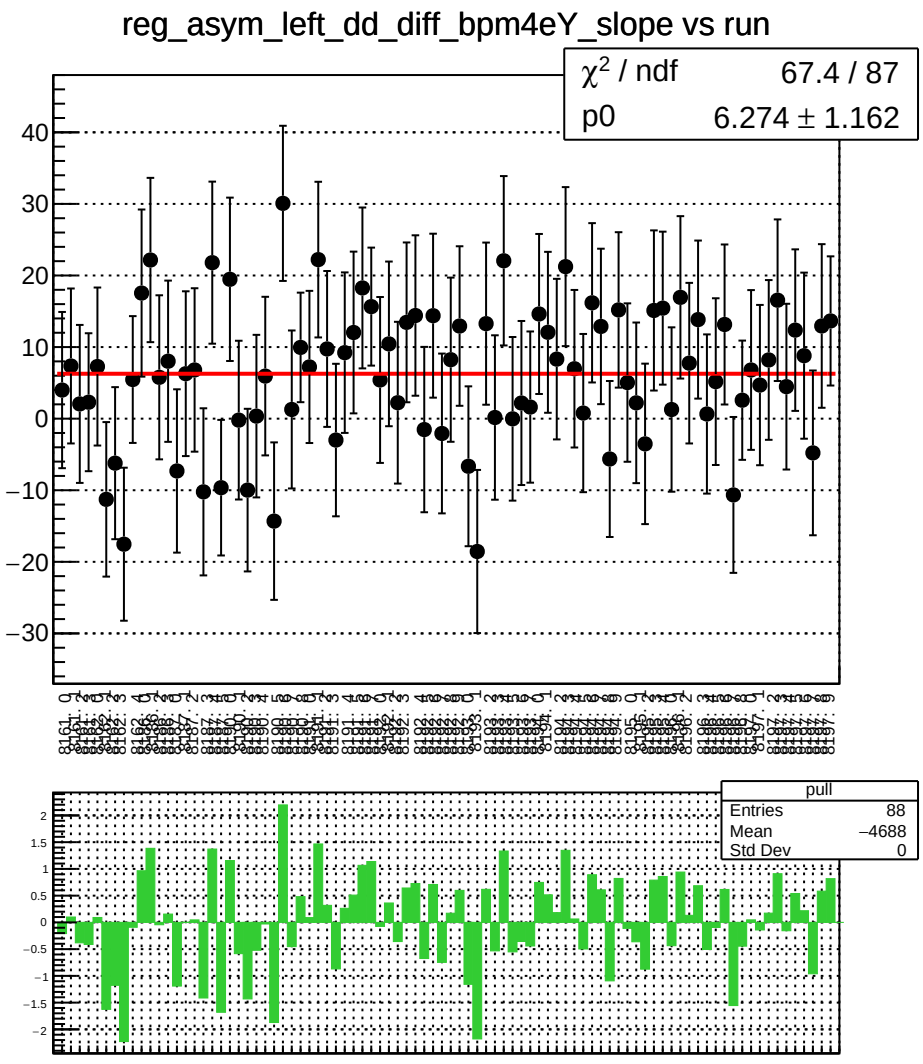

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 205.6 / 87
p0 −19.05 ± 0.05236
pull
Entries 88
Mean −522
Std Dev 0
pull1D
Entries 88
Mean −0.03841
Std Dev 1.528

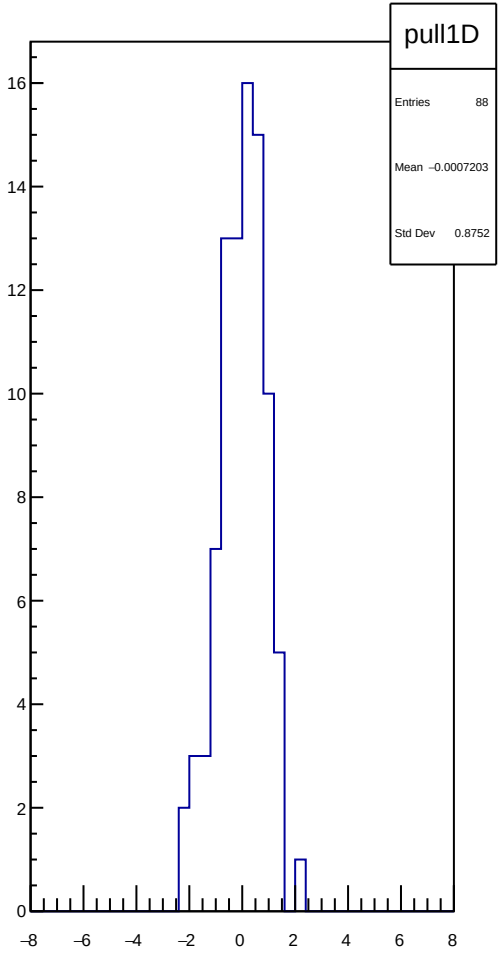

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 62.7 / 87
p0 −28.92 ± 0.6509
pull
Entries 88
Mean 291
Std Dev 0
pull1D
Entries 88
Mean 0.02513
Std Dev 0.8437

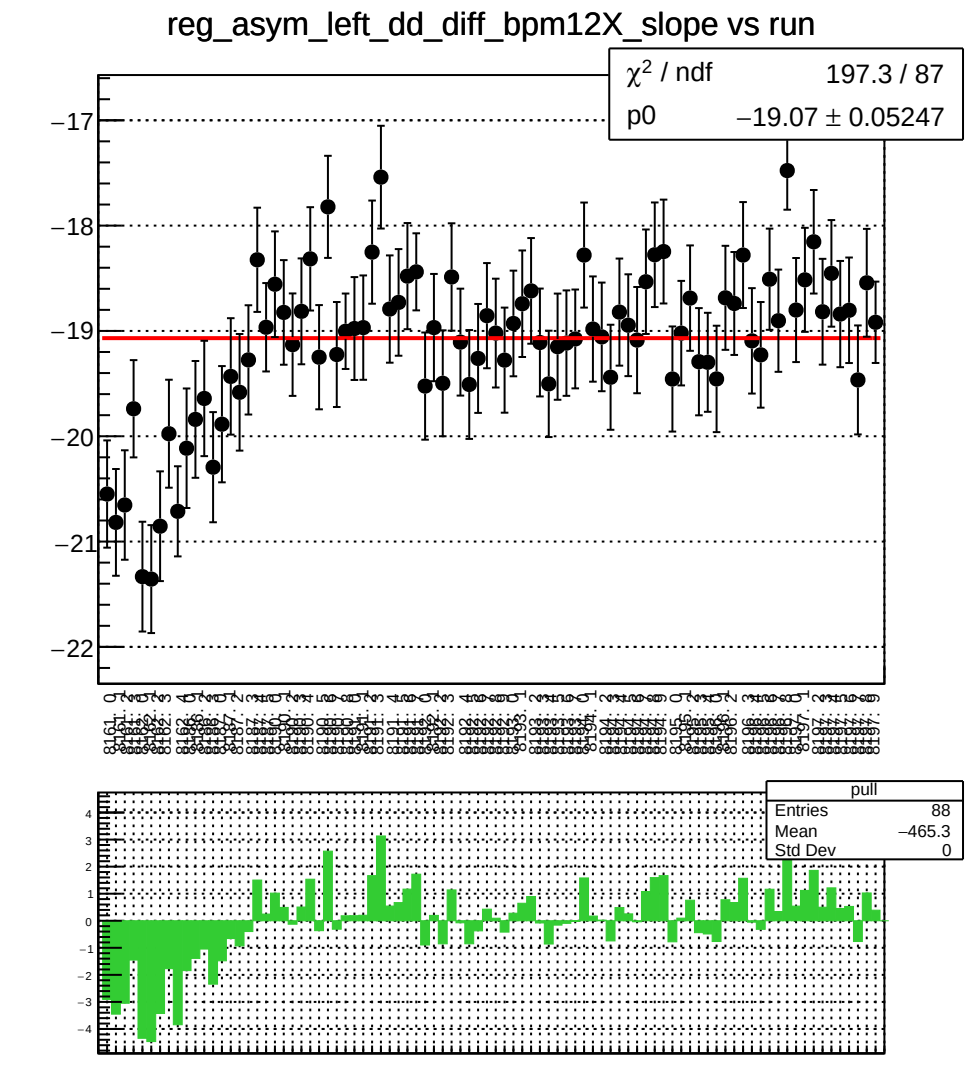

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.93 / 87
p0 4.511 ± 1.079
pull
Entries 88
Mean −1434
Std Dev 0

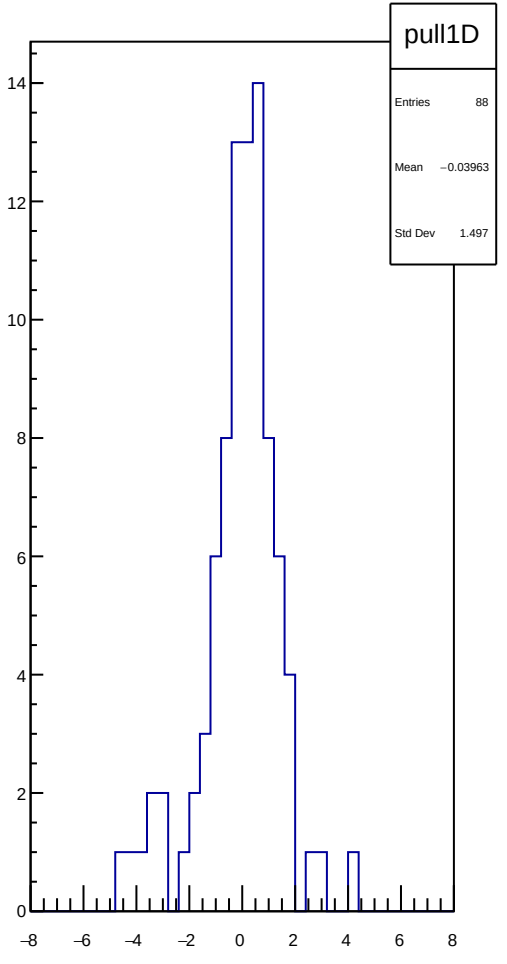

pull1D
Entries 88
Mean 0.002269
Std Dev 0.8656

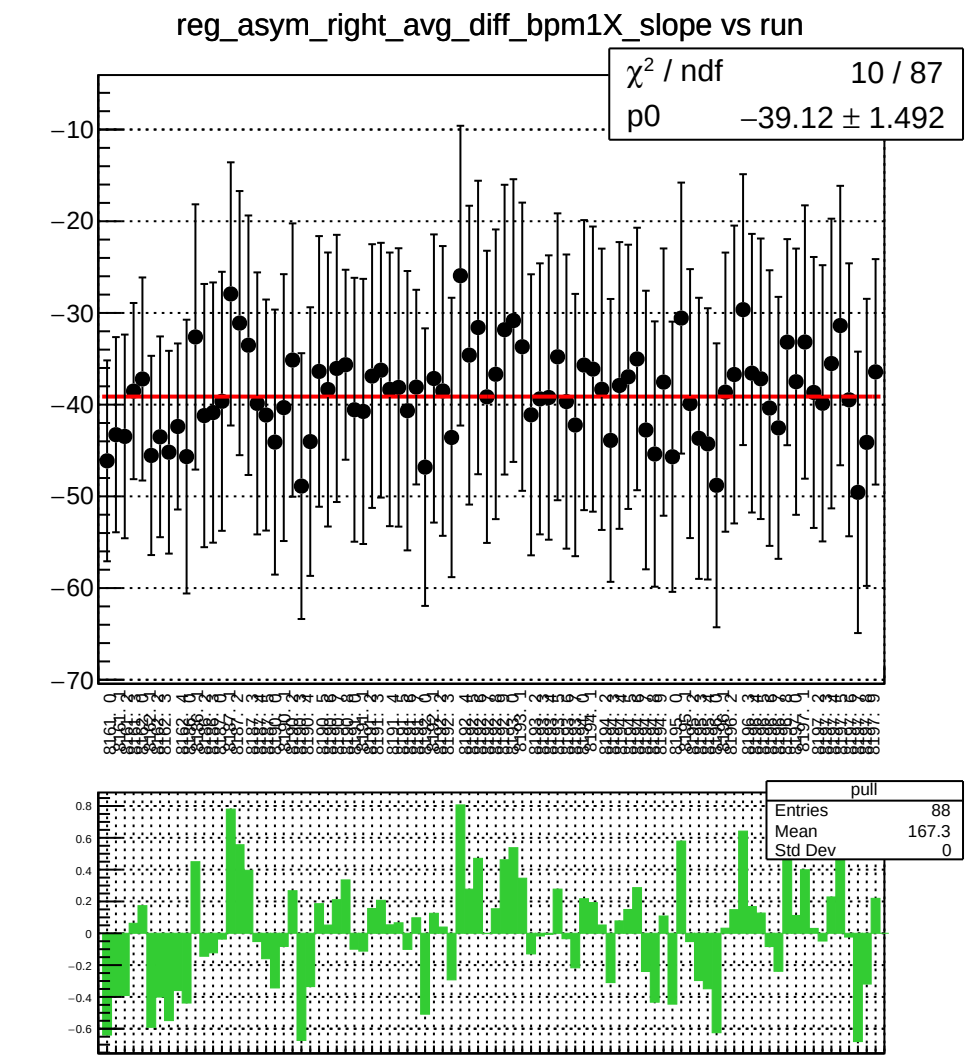

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.6 / 87
p0 −2.79 ± 0.6508
pull
Entries 88
Mean 308
Std Dev 0
pull1D
Entries 88
Mean −0.01841
Std Dev 0.8297

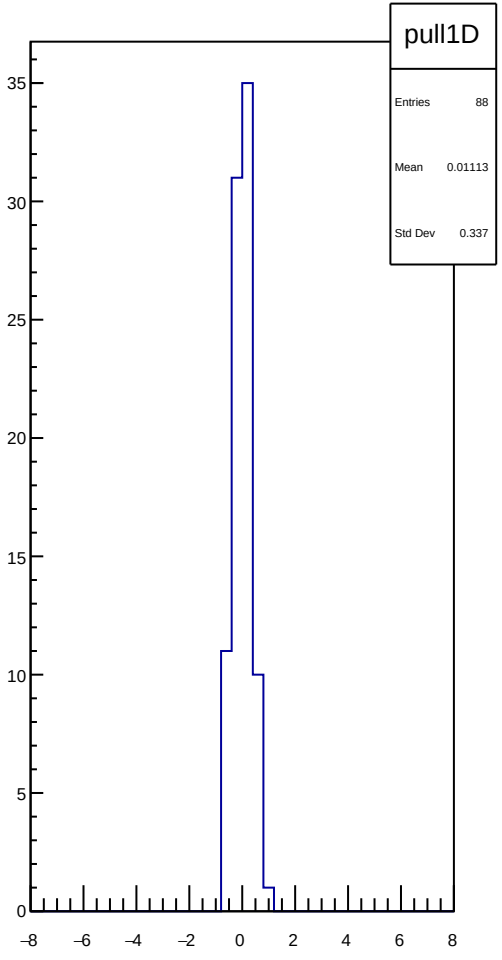

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.4 / 87
p0 6.274 ± 1.162
pull
Entries 88
Mean −4688
Std Dev 0

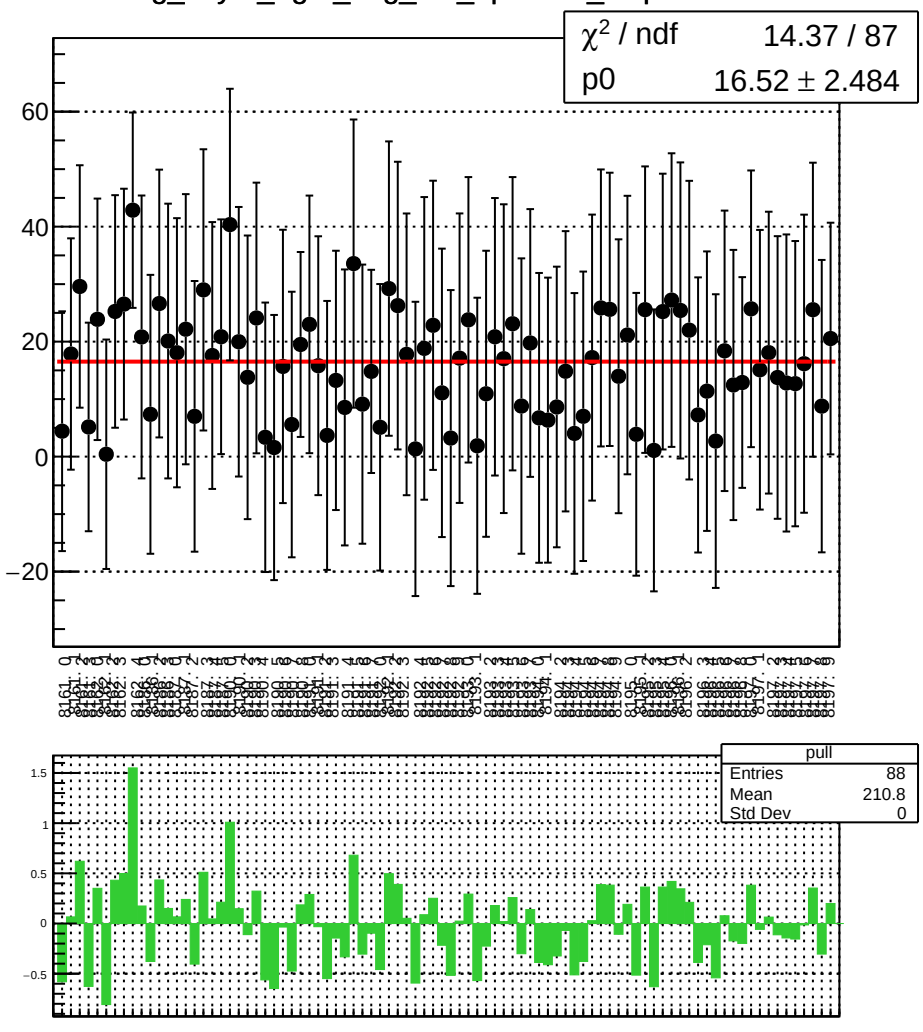

pull1D
Entries 88
Mean −0.0007203
Std Dev 0.8752

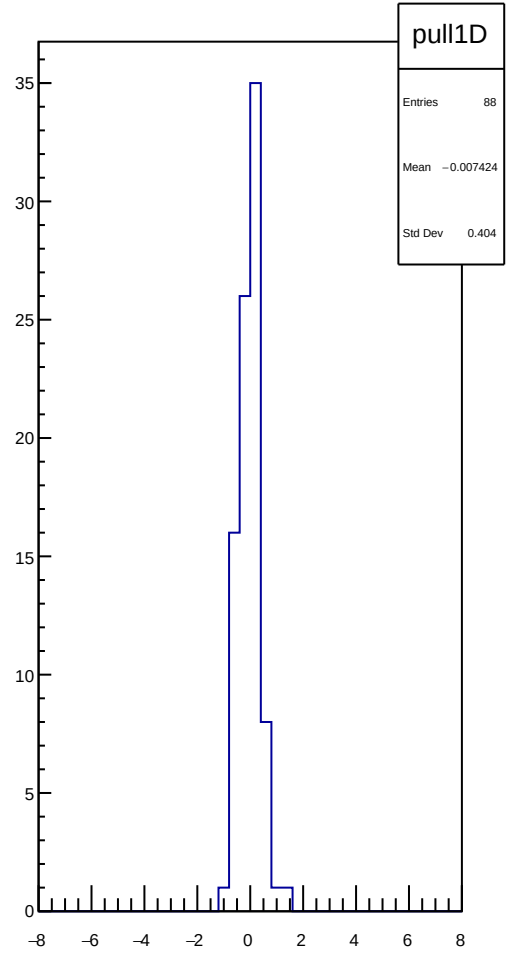

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 197.3 / 87
p0 −19.07 ± 0.05247
pull
Entries 88
Mean −465.3
Std Dev 0

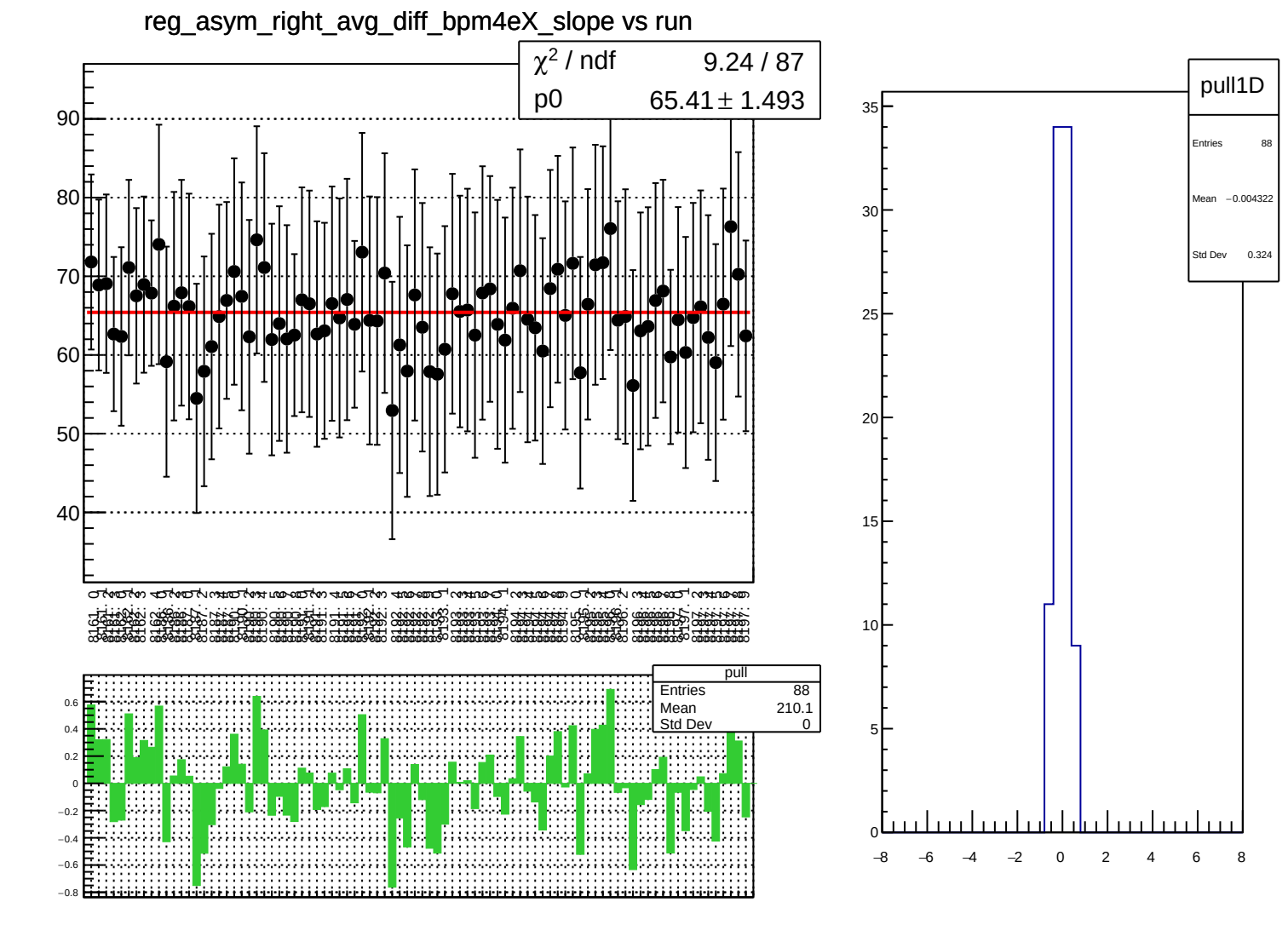

pull1D
Entries 88
Mean −0.03963
Std Dev 1.497

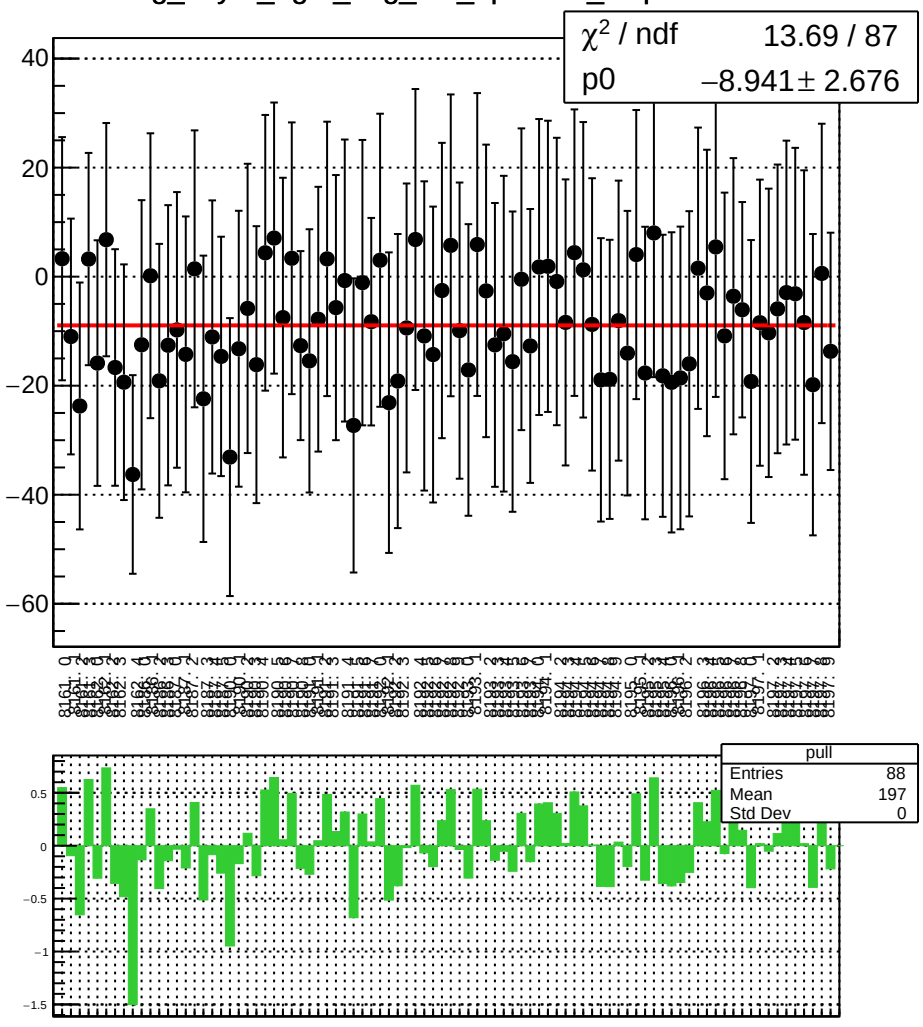

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 10 / 87
p0 −39.12 ± 1.492
pull
Entries 88
Mean 167.3
Std Dev 0

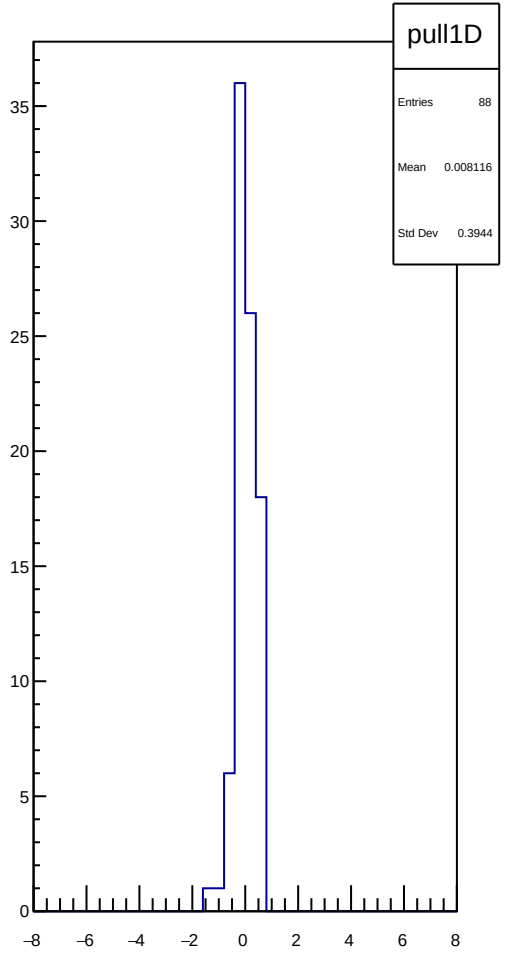

pull1D
Entries 88
Mean 0.01113
Std Dev 0.337

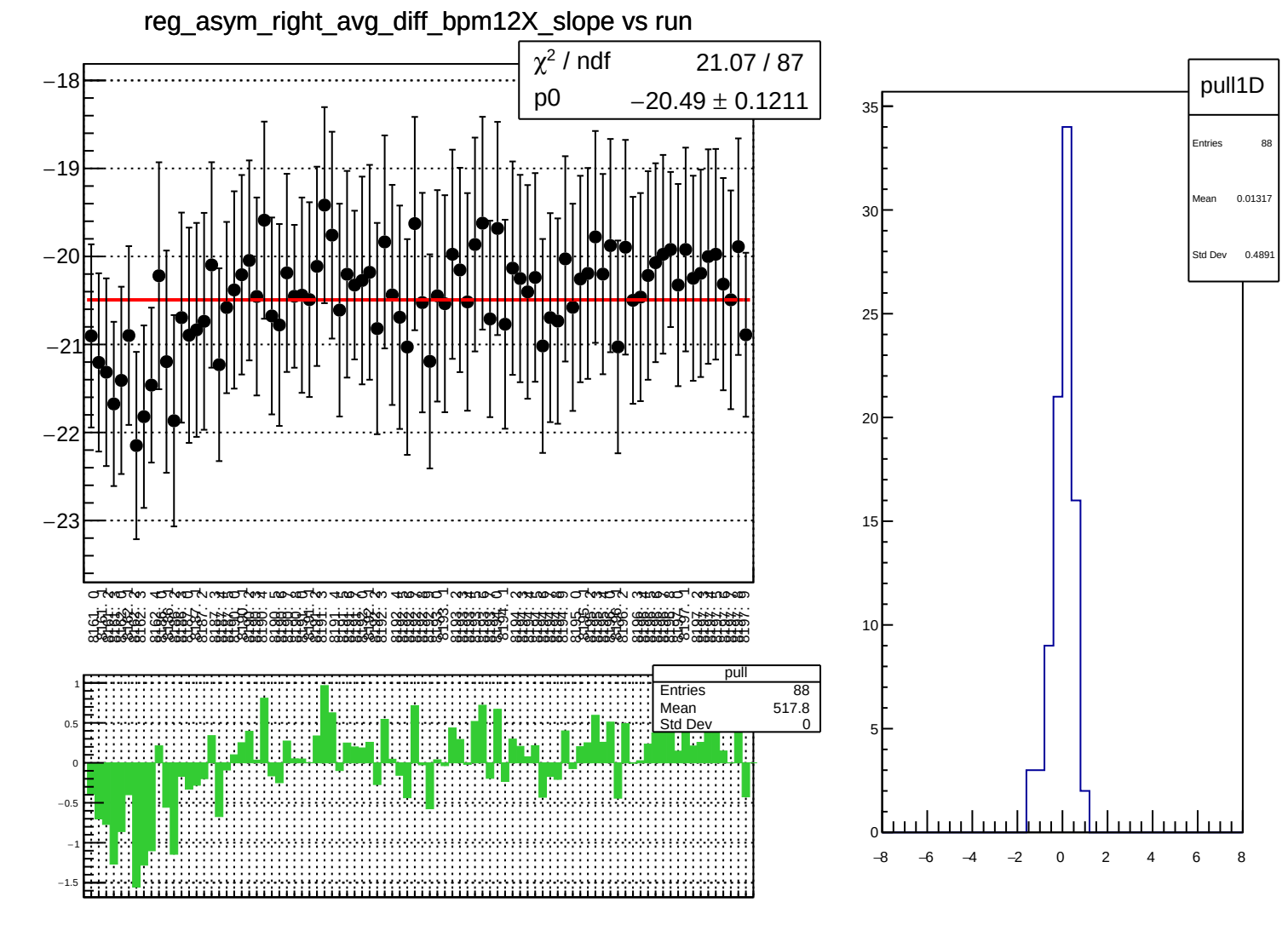

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.37 / 87
p0 16.52 ± 2.484
pull
Entries 88
Mean 210.8
Std Dev 0

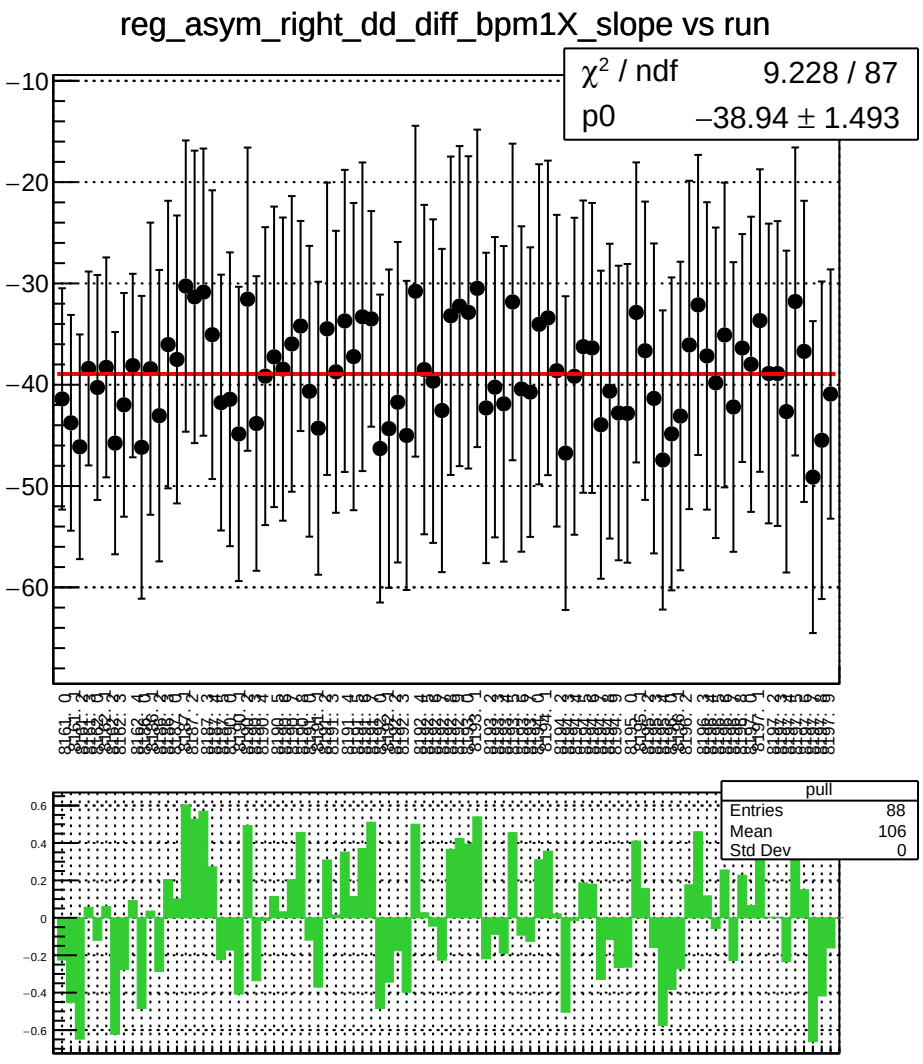

pull1D
Entries 88
Mean −0.007424
Std Dev 0.404

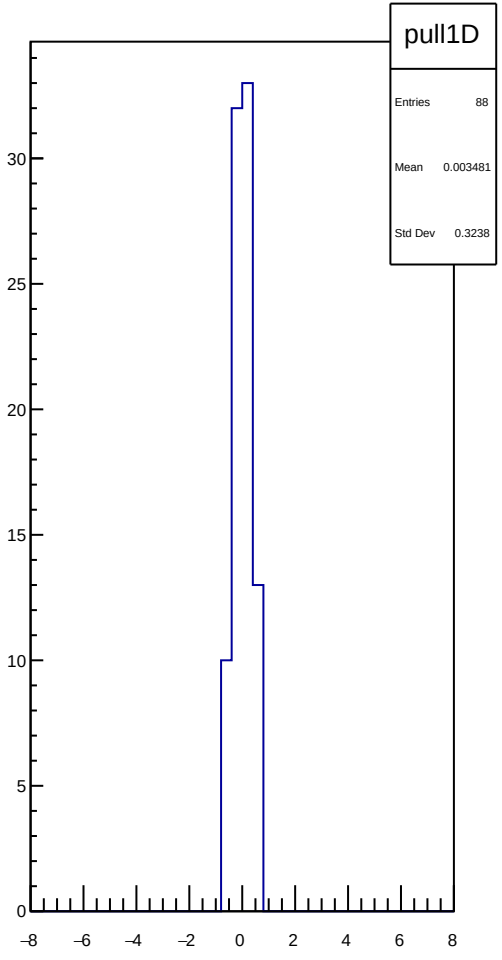

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.24 / 87
p0 65.41 ± 1.493
pull
Entries 88
Mean 210.1
Std Dev 0
pull1D
Entries 88
Mean −0.004322
Std Dev 0.324

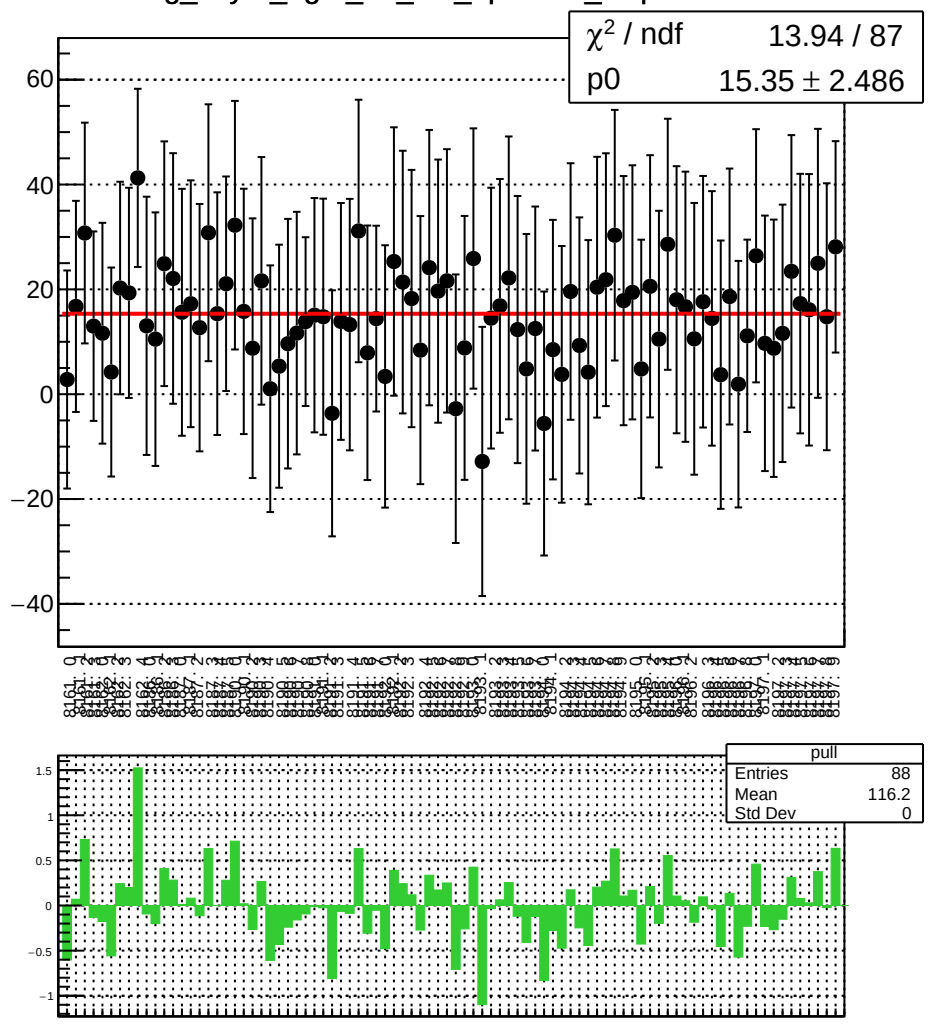

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.69 / 87
p0 −8.941 ± 2.676
pull
Entries 88
Mean 197
Std Dev 0

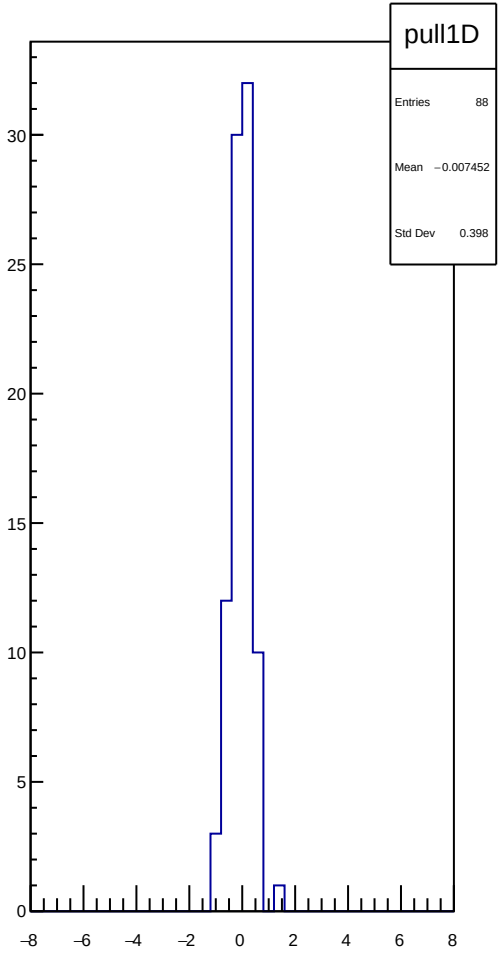

pull1D
Entries 88
Mean 0.008116
Std Dev 0.3944

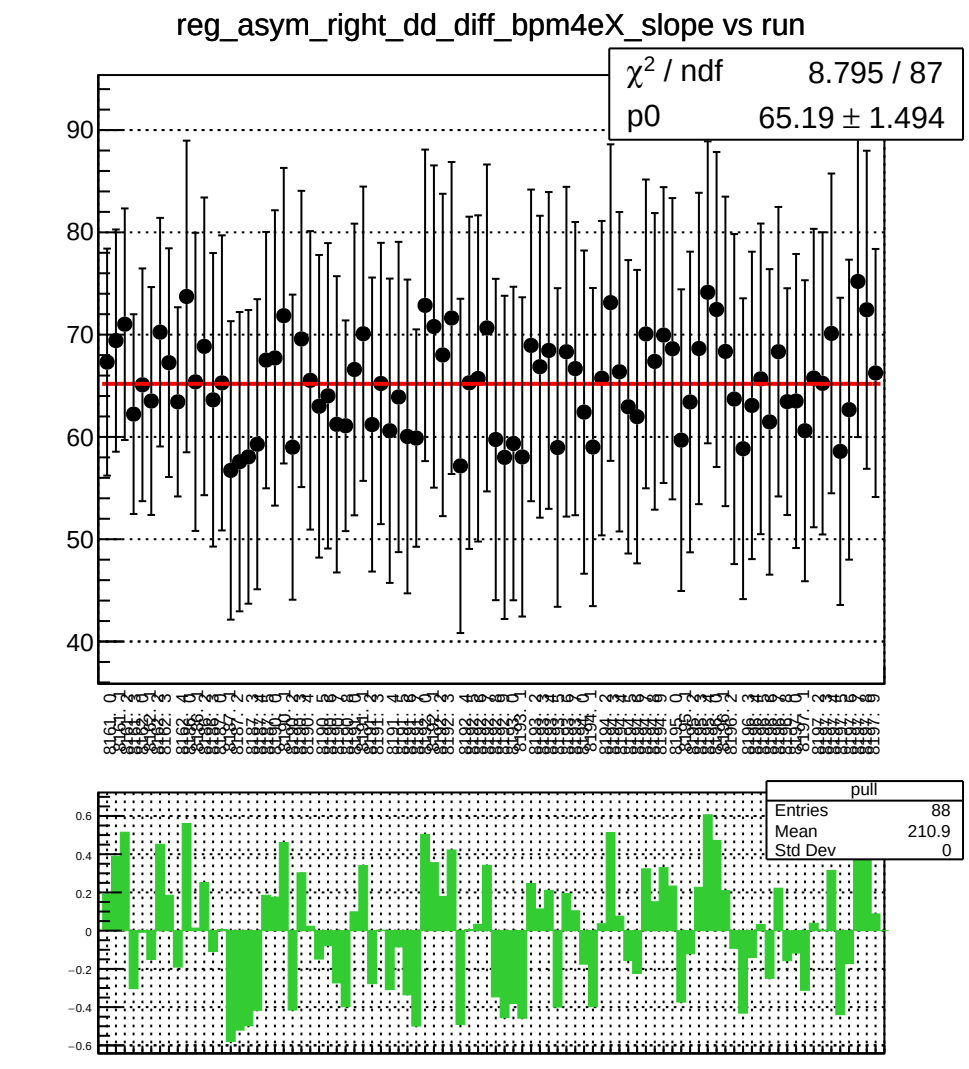

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 21.07 / 87
p0 −20.49 ± 0.1211
pull
Entries 88
Mean 517.8
Std Dev 0
pull1D
Entries 88
Mean 0.01317
Std Dev 0.4891

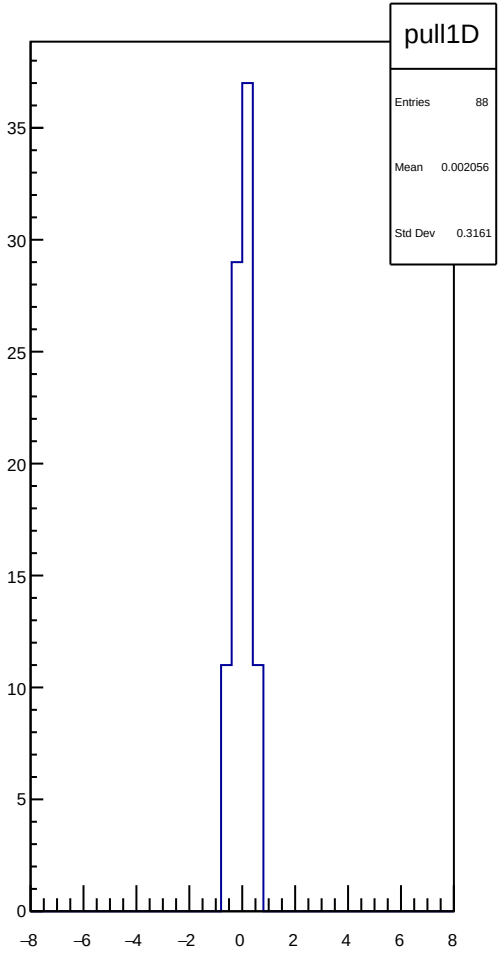

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 9.228 / 87
p0 −38.94 ± 1.493
pull
Entries 88
Mean 106
Std Dev 0

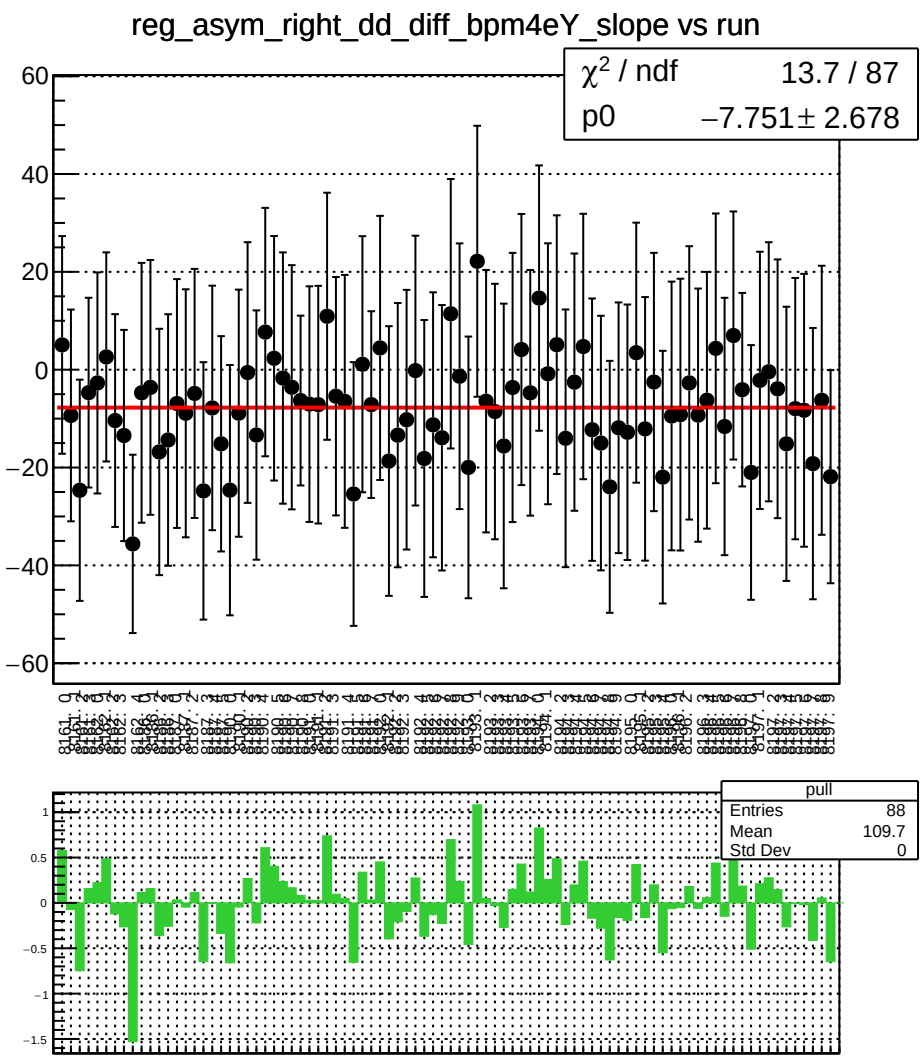

pull1D
Entries 88
Mean 0.003481
Std Dev 0.3238

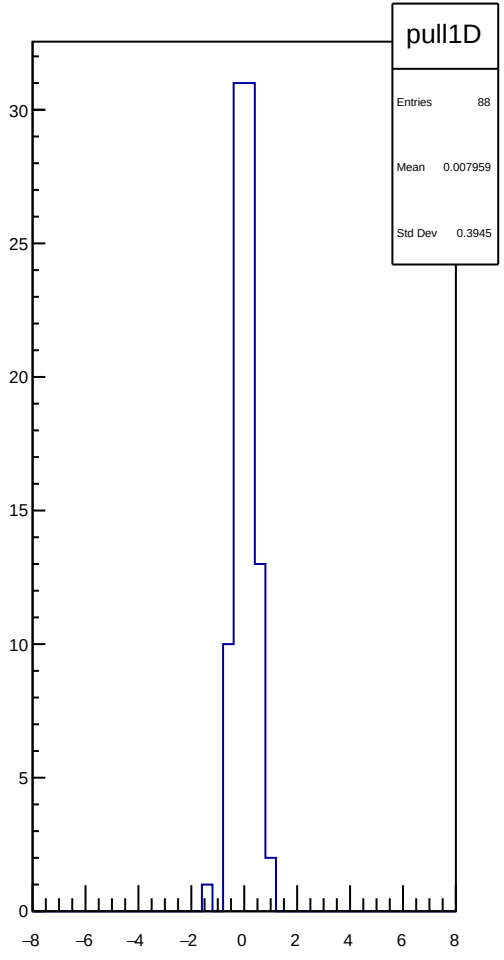

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.94 / 87
p0 15.35 ± 2.486
pull
Entries 88
Mean 116.2
Std Dev 0

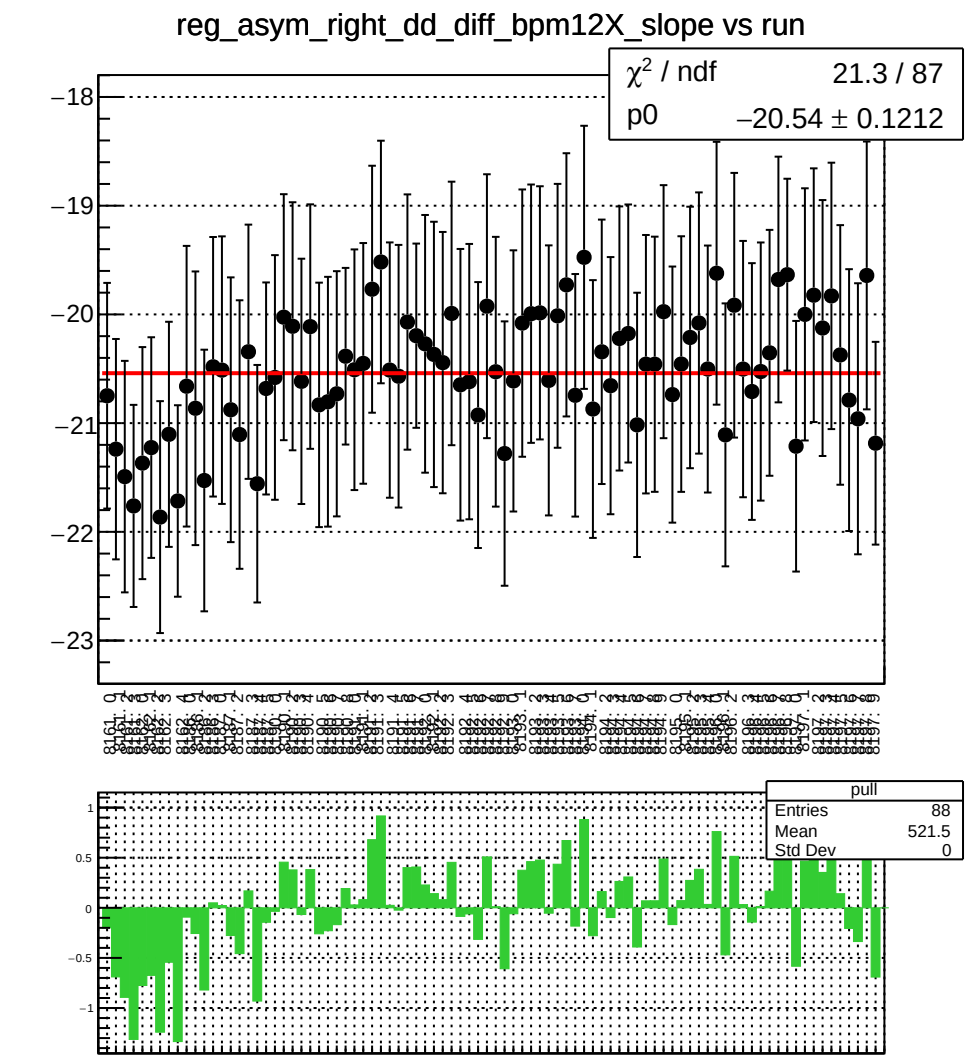

pull1D
Entries 88
Mean −0.007452
Std Dev 0.398

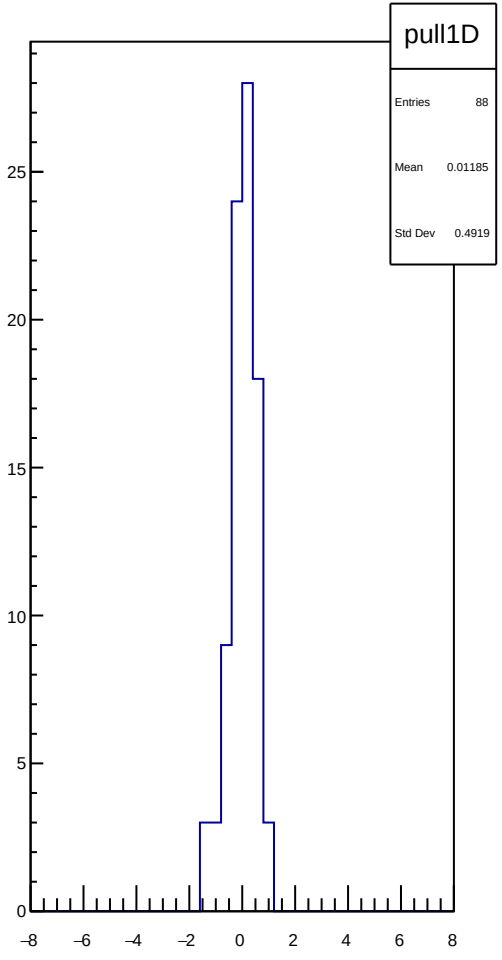

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.795 / 87
p0 65.19 ± 1.494
pull
Entries 88
Mean 210.9
Std Dev 0

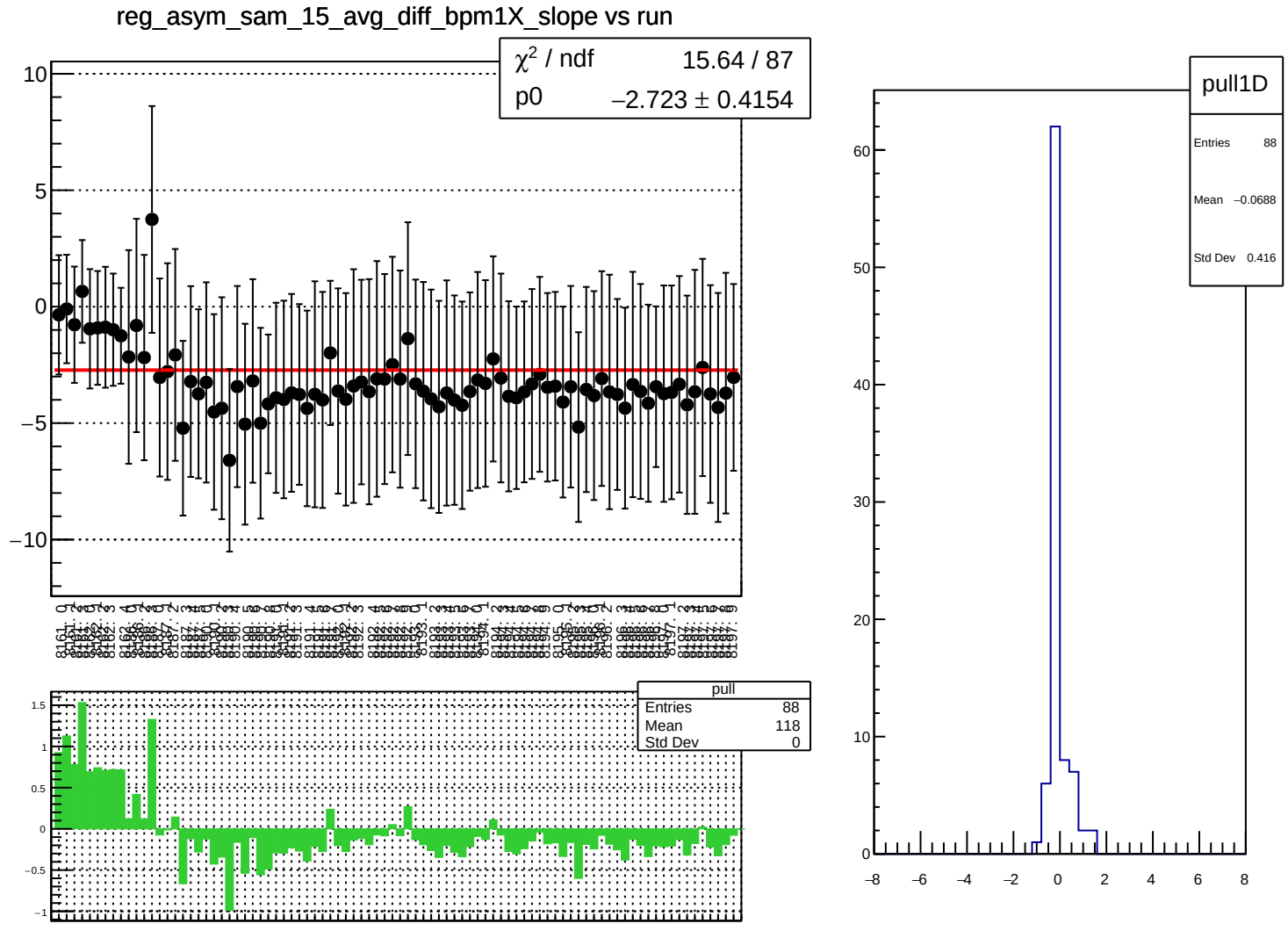

pull1D
Entries 88
Mean 0.002056
Std Dev 0.3161

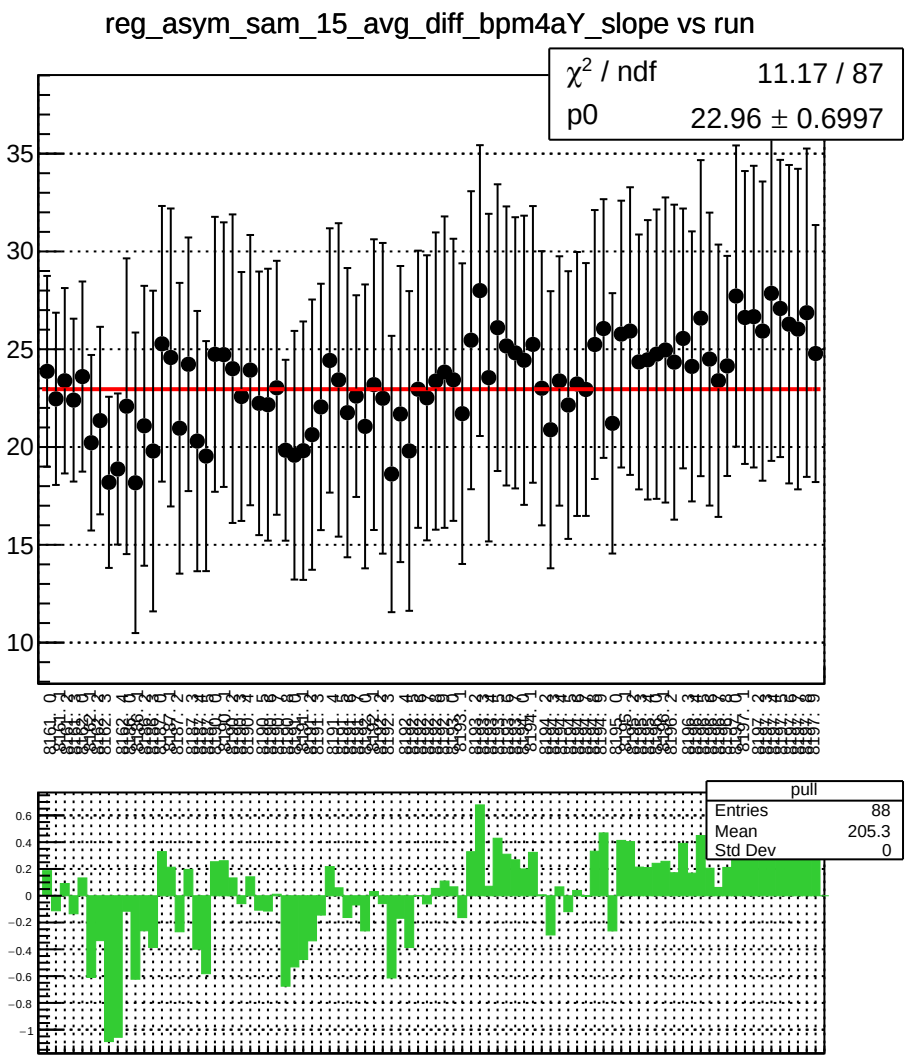

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.7 / 87
p0 −7.751± 2.678
pull
Entries 88
Mean 109.7
Std Dev 0

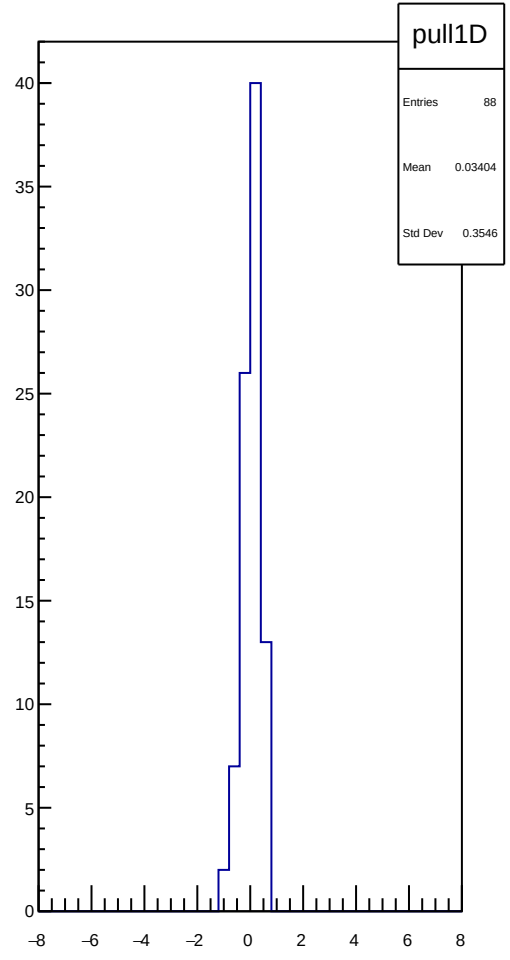

pull1D
Entries 88
Mean 0.007959
Std Dev 0.3945

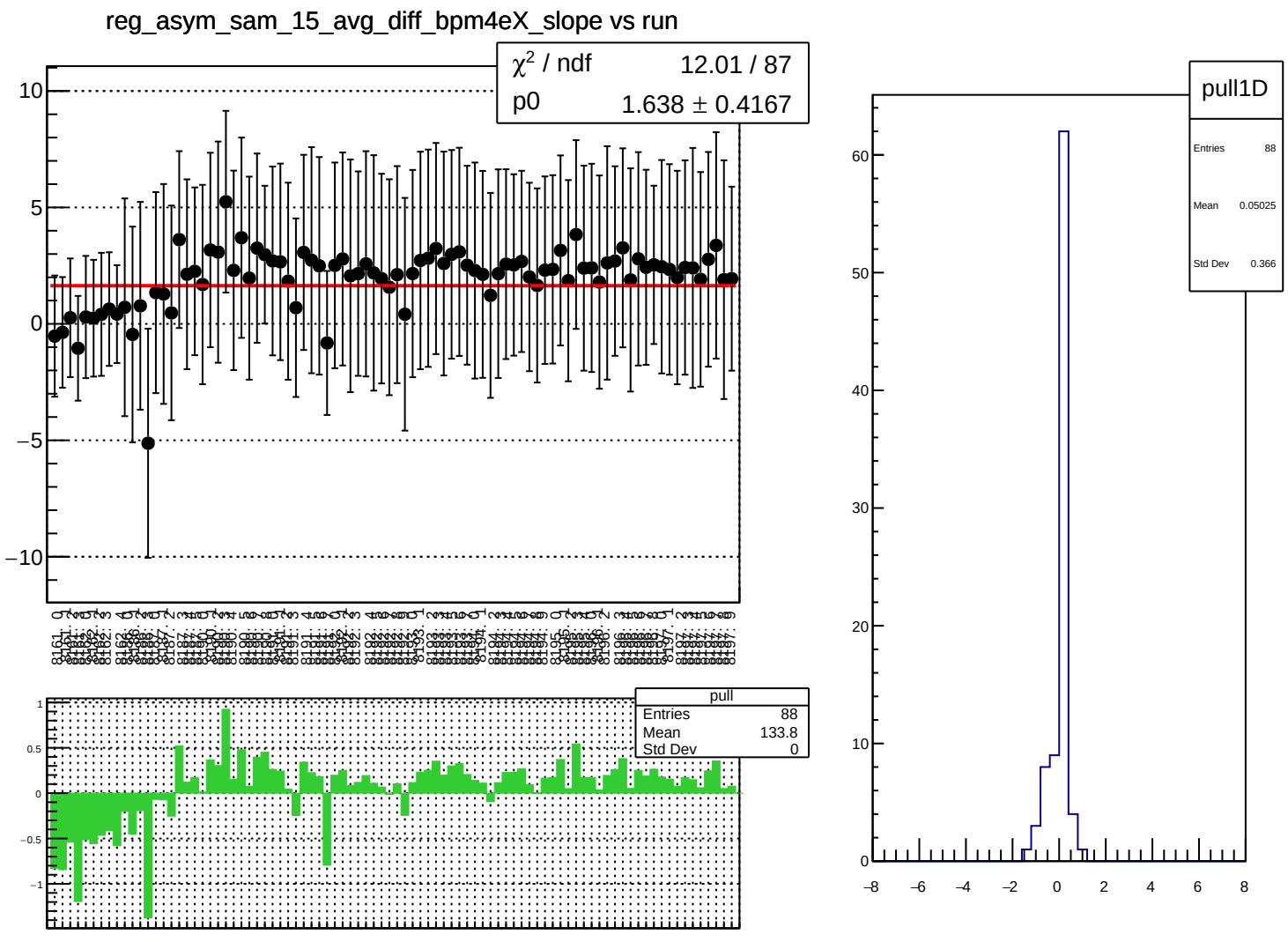

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 21.3 / 87
p0 −20.54 ± 0.1212
pull
Entries 88
Mean 521.5
Std Dev 0

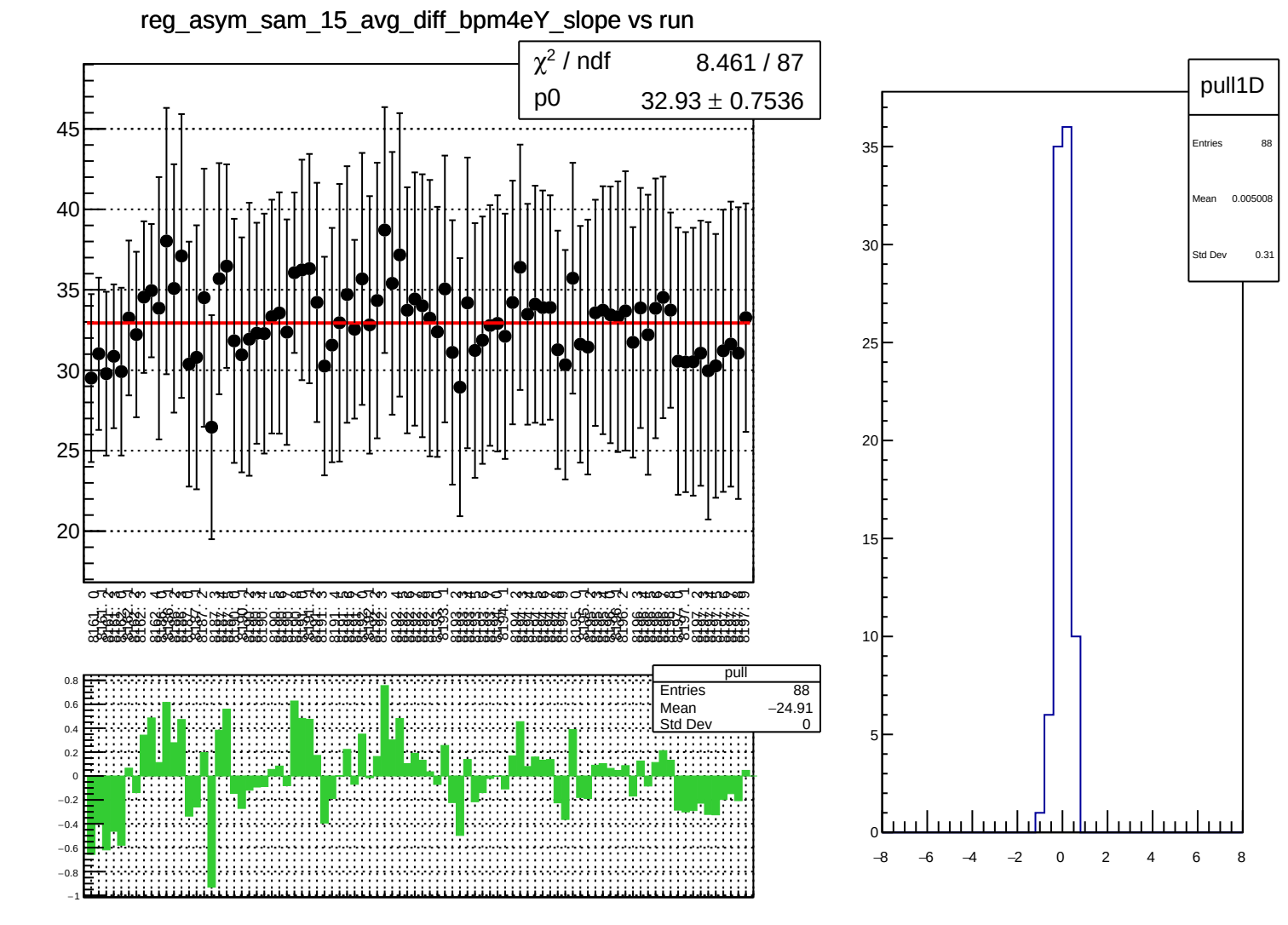

pull1D
Entries 88
Mean 0.01185
Std Dev 0.4919

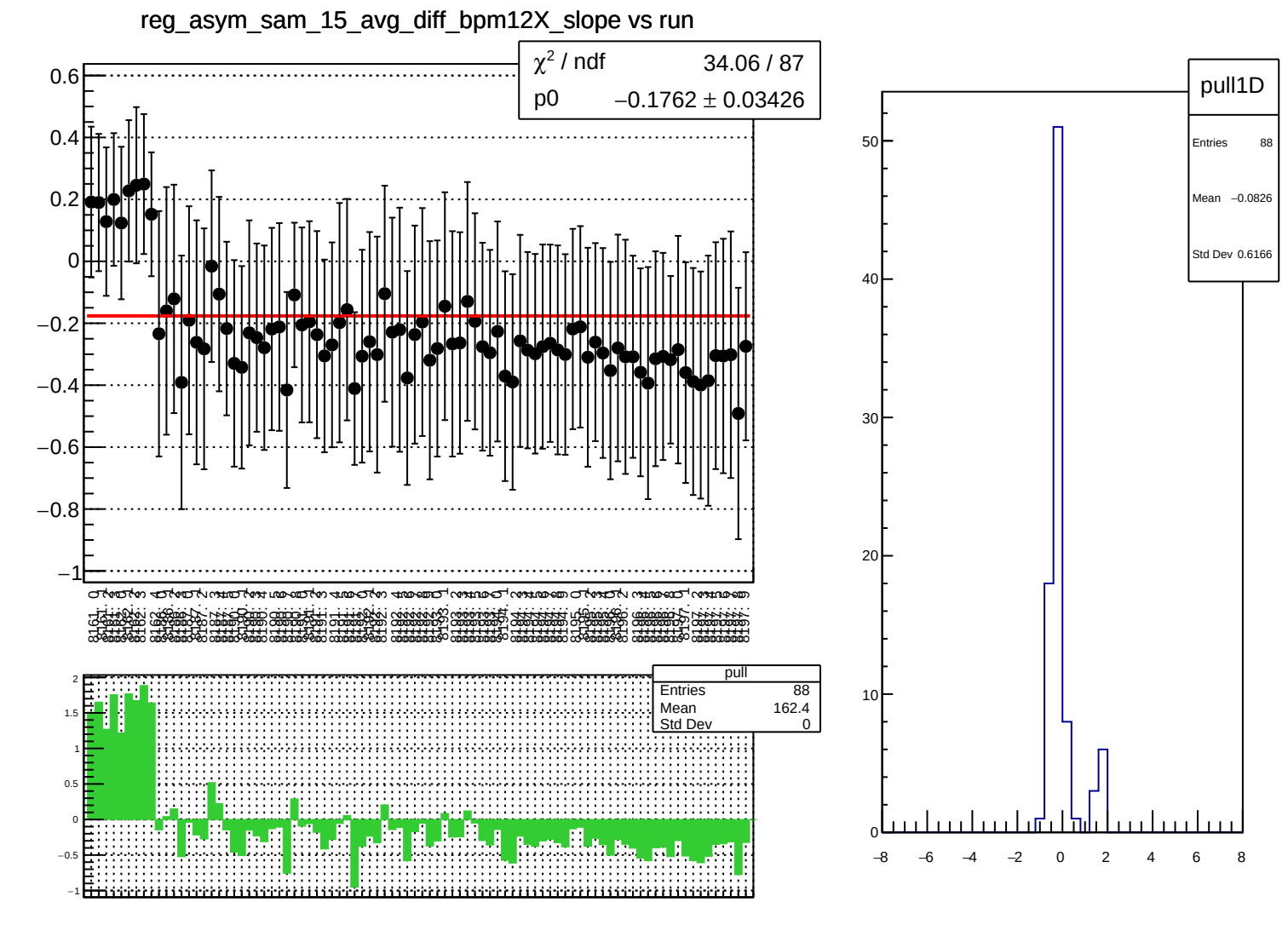

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 15.64 / 87
p0 −2.723 ± 0.4154
pull
Entries 88
Mean 118
Std Dev 0
pull1D
Entries 88
Mean −0.0688
Std Dev 0.416

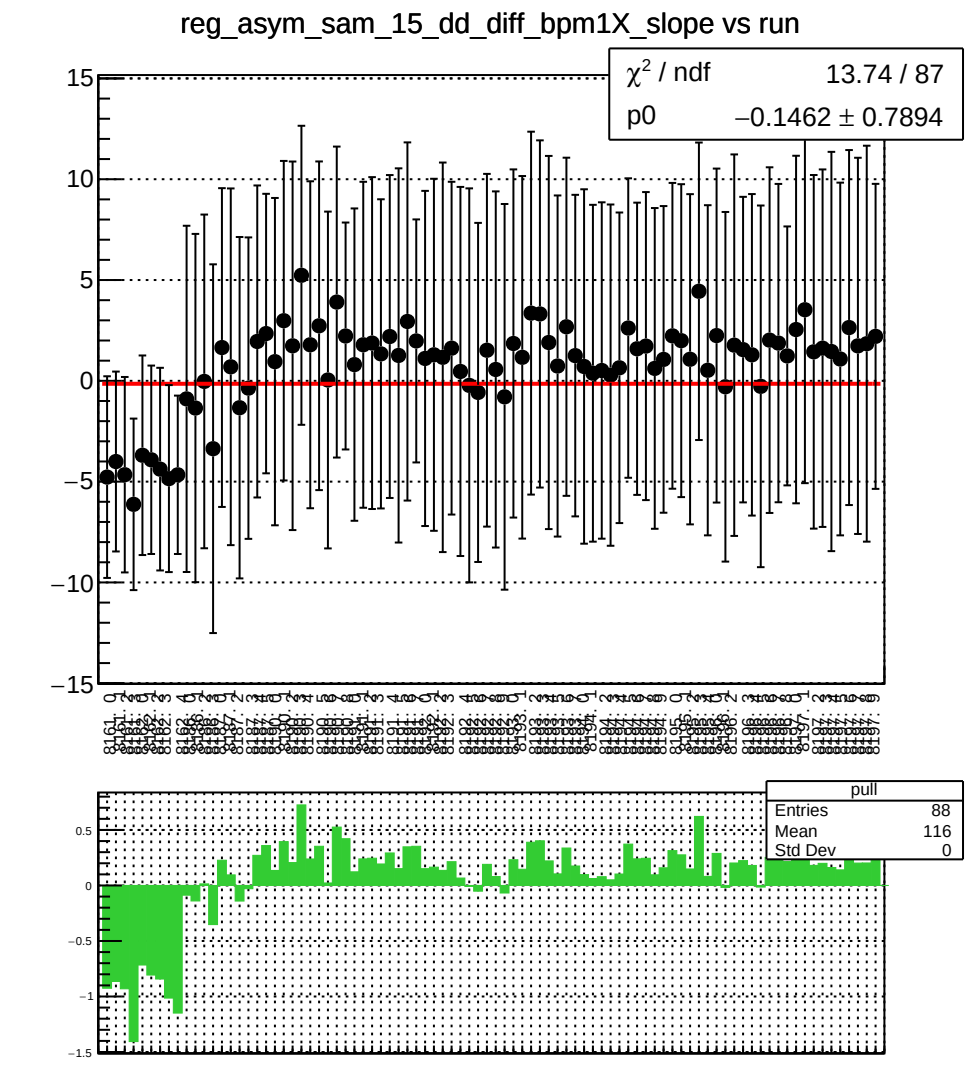

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.17 / 87
p0 22.96 ± 0.6997
pull
Entries 88
Mean 205.3
Std Dev 0

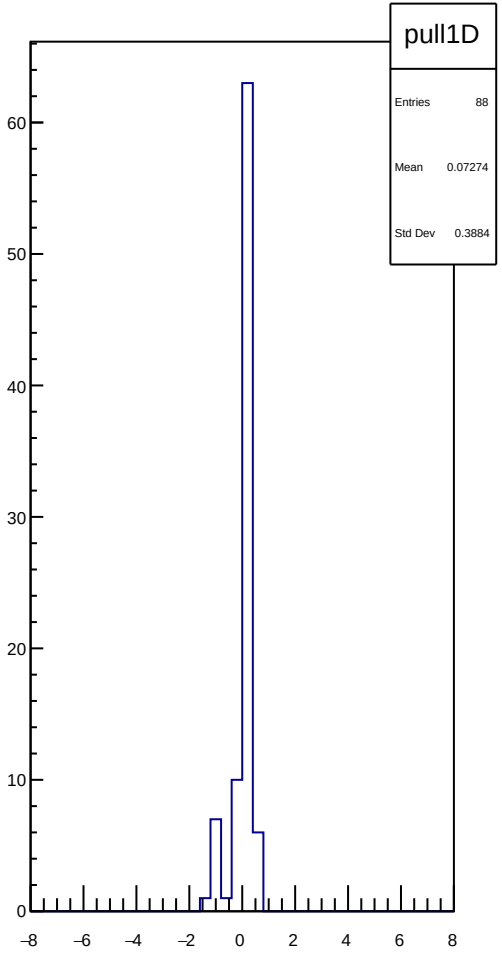

pull1D
Entries 88
Mean 0.03404
Std Dev 0.3546

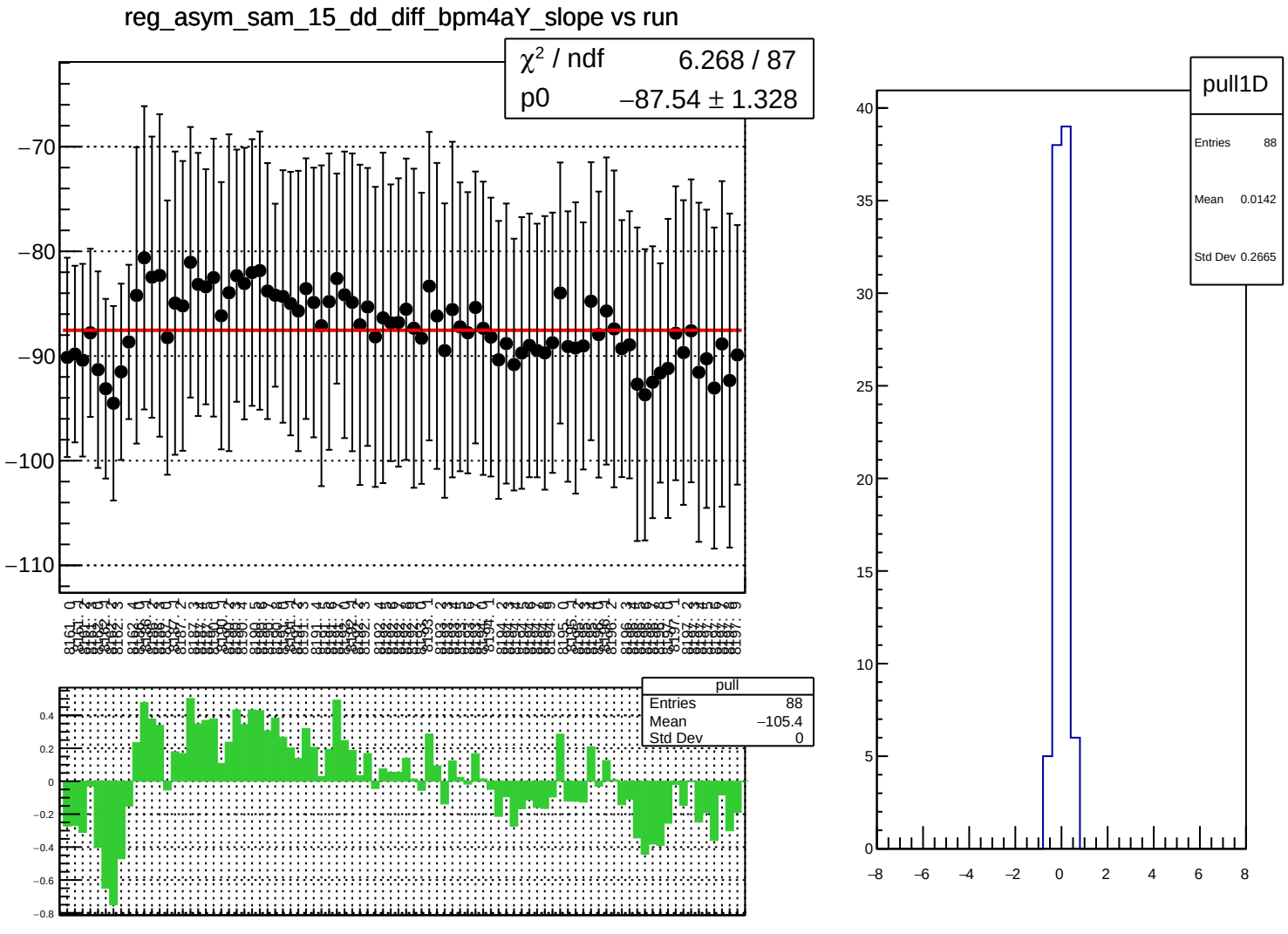

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.01 / 87
p0 1.638 ± 0.4167
pull
Entries 88
Mean 133.8
Std Dev 0
pull1D
Entries 88
Mean 0.05025
Std Dev 0.366

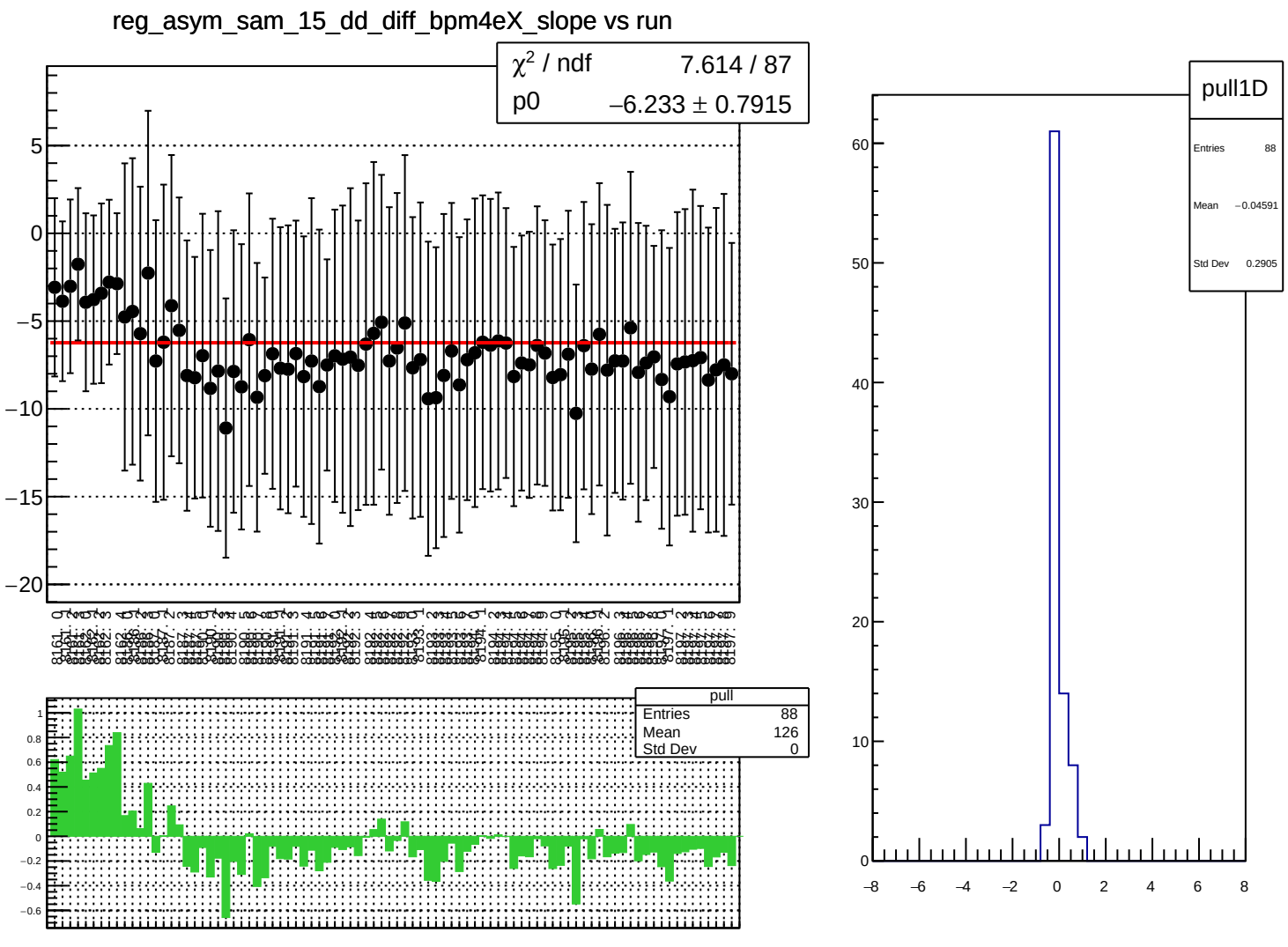

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.461 / 87
p0 32.93 ± 0.7536
pull
Entries 88
Mean −24.91
Std Dev 0
pull1D
Entries 88
Mean 0.005008
Std Dev 0.31

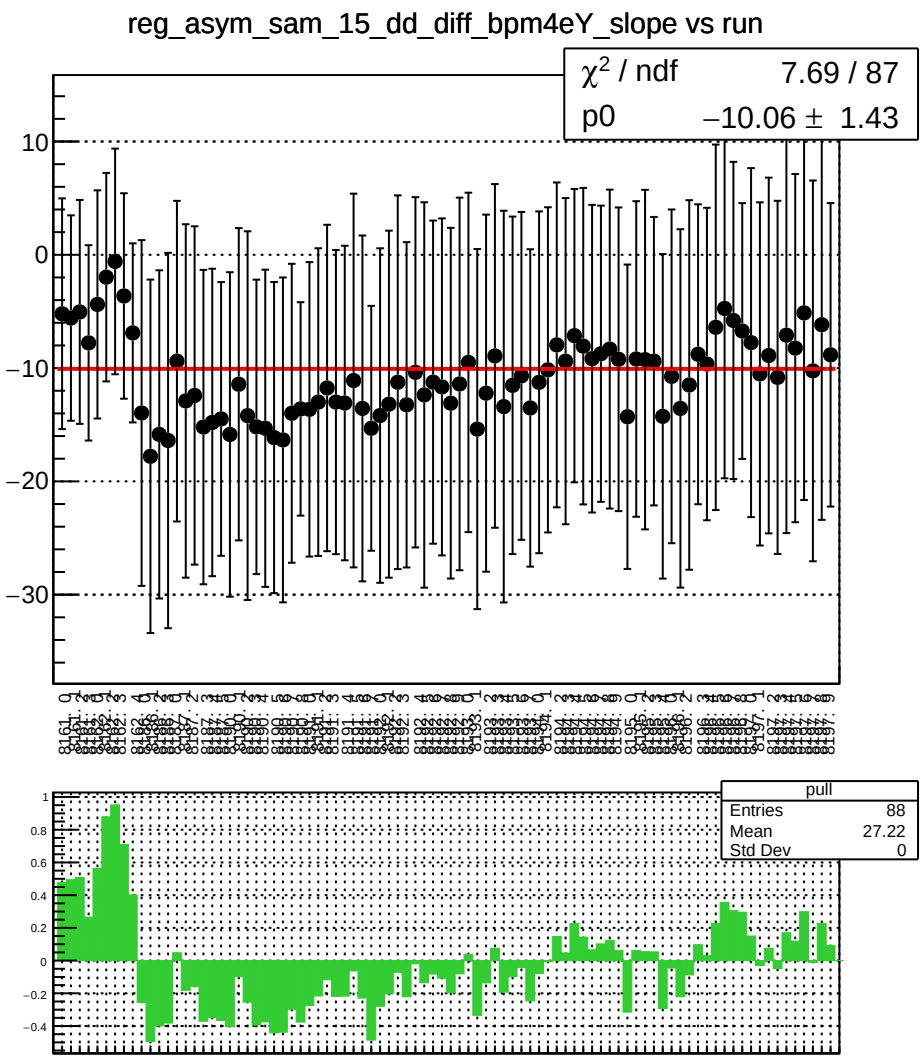

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 34.06 / 87
p0 −0.1762 ± 0.03426
pull
Entries 88
Mean 162.4
Std Dev 0
pull1D
Entries 88
Mean −0.0826
Std Dev 0.6166

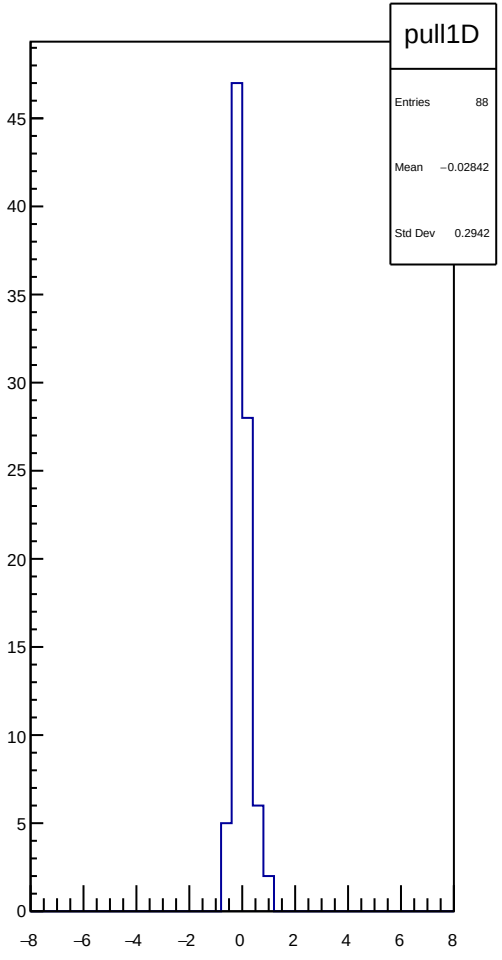

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 13.74 / 87
p0 −0.1462 ± 0.7894
pull
Entries 88
Mean 116
Std Dev 0

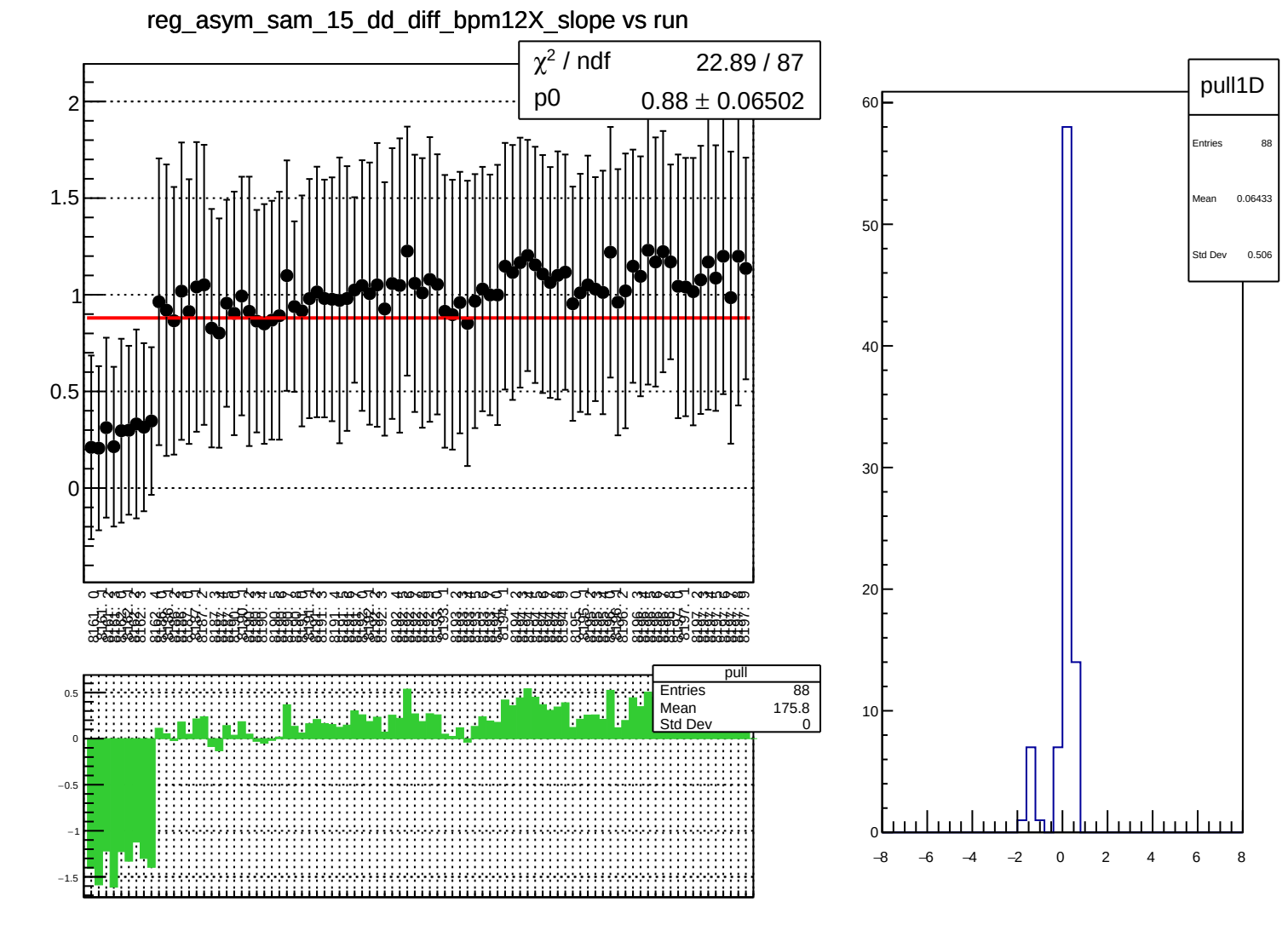

pull1D
Entries 88
Mean 0.07274
Std Dev 0.3884

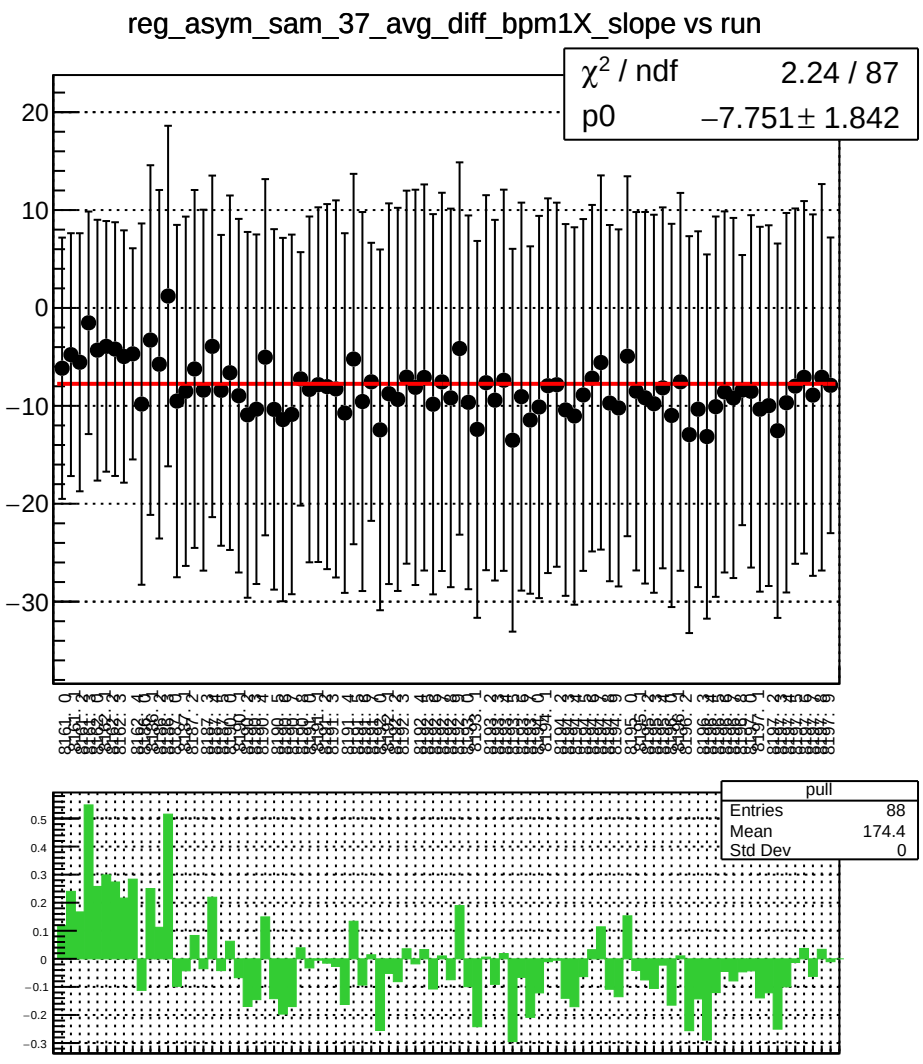

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.268 / 87
p0 −87.54 ± 1.328
−70
−80
−90
−100
−110
pull
Entries 88
Mean −105.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.0142
Std Dev 0.2665
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

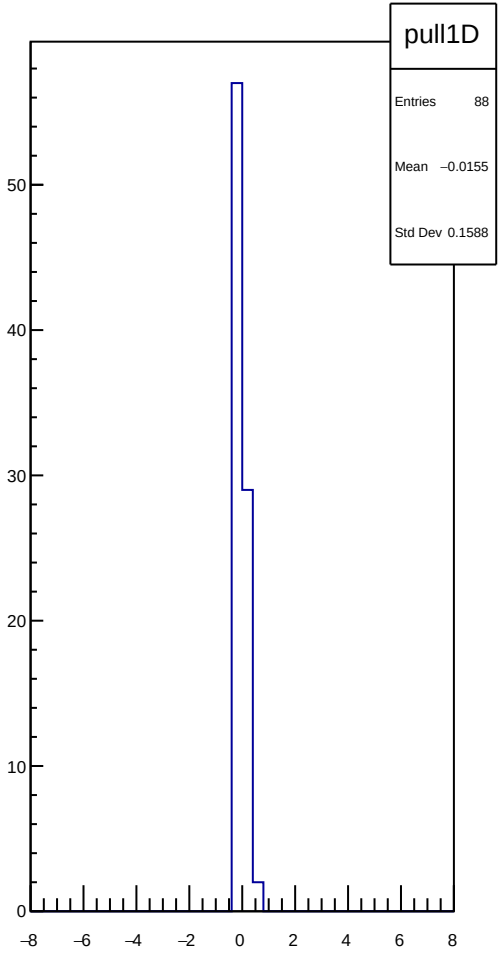

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.614 / 87
p0 −6.233 ± 0.7915
pull
Entries 88
Mean 126
Std Dev 0
pull1D
Entries 88
Mean −0.04591
Std Dev 0.2905

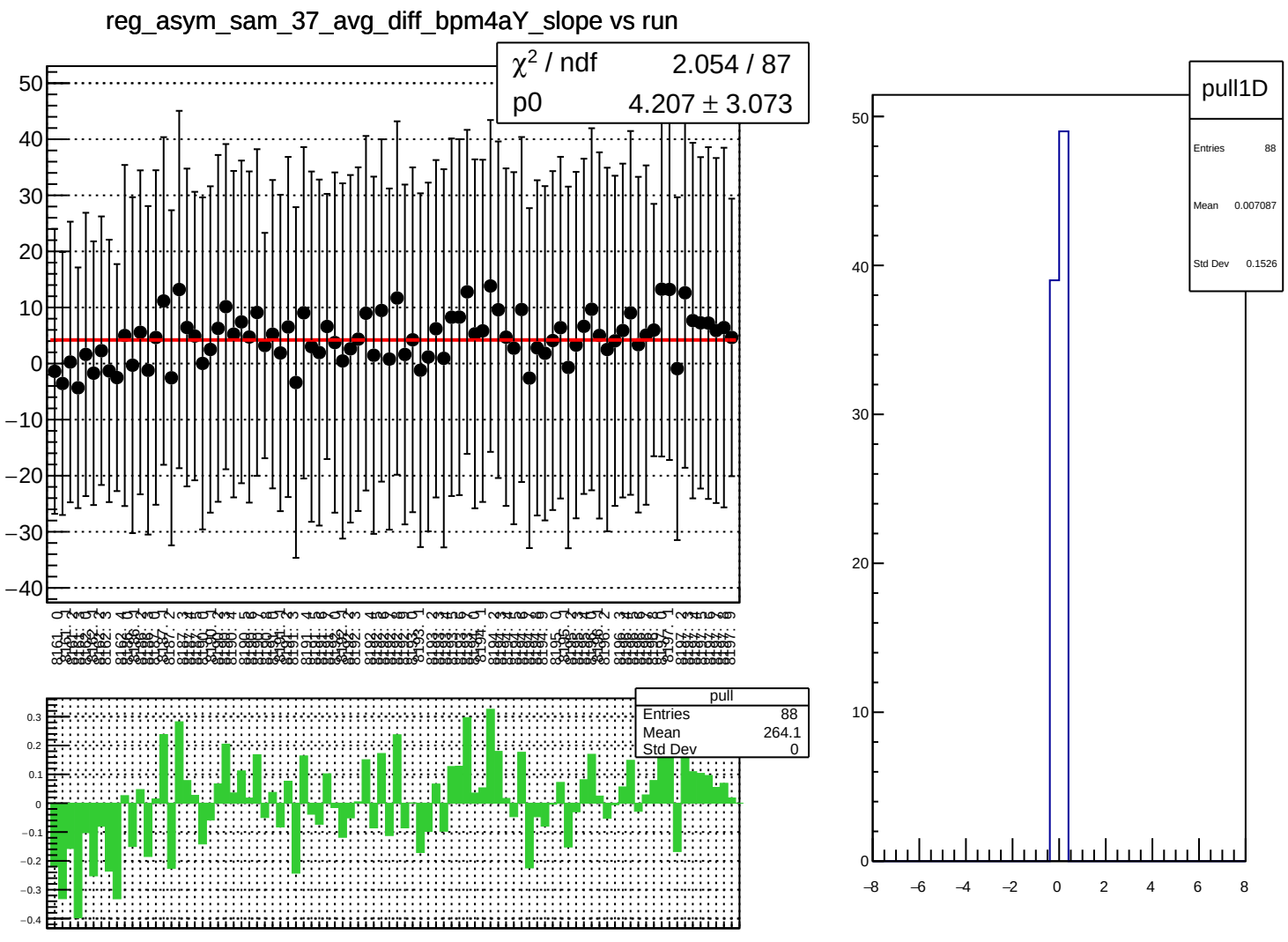

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.69 / 87
p0 −10.06 ± 1.43
pull
Entries 88
Mean 27.22
Std Dev 0

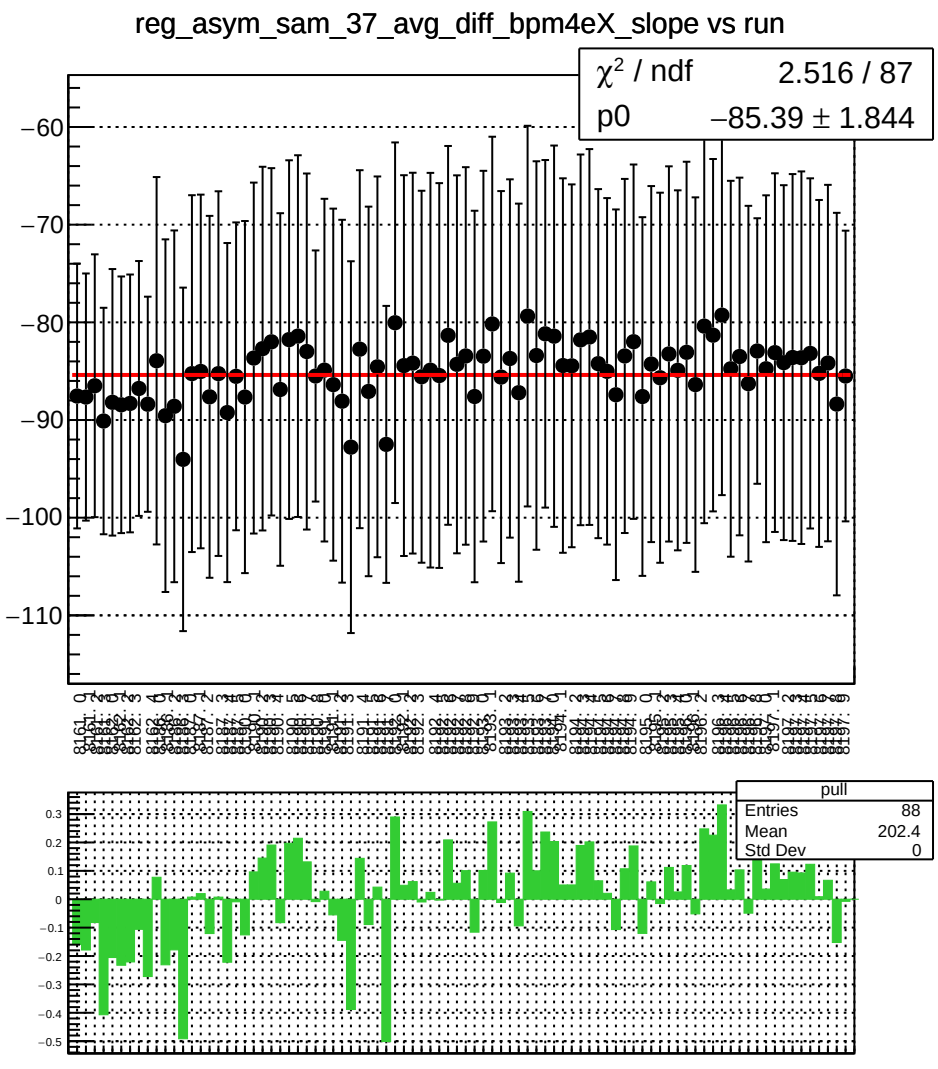

pull1D
Entries 88
Mean −0.02842
Std Dev 0.2942

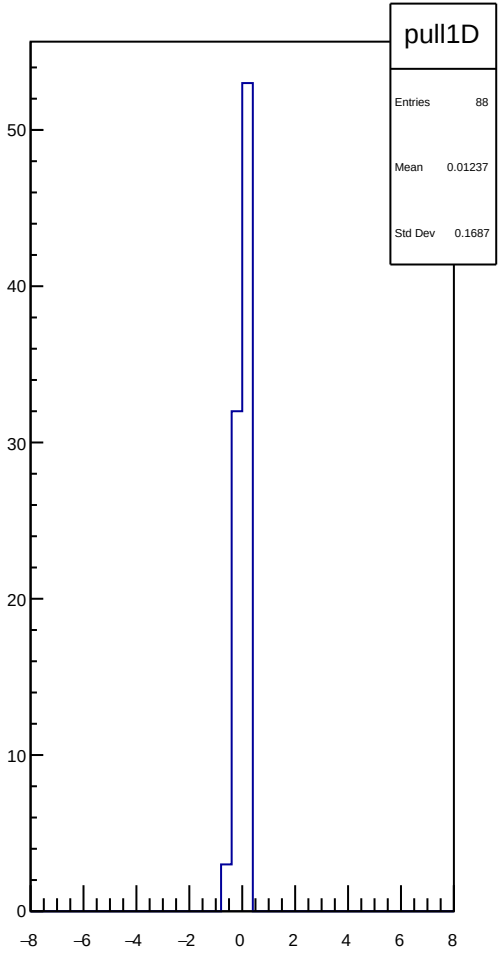

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 22.89 / 87
p0 0.88 ± 0.06502
pull
Entries 88
Mean 175.8
Std Dev 0
pull1D
Entries 88
Mean 0.06433
Std Dev 0.506

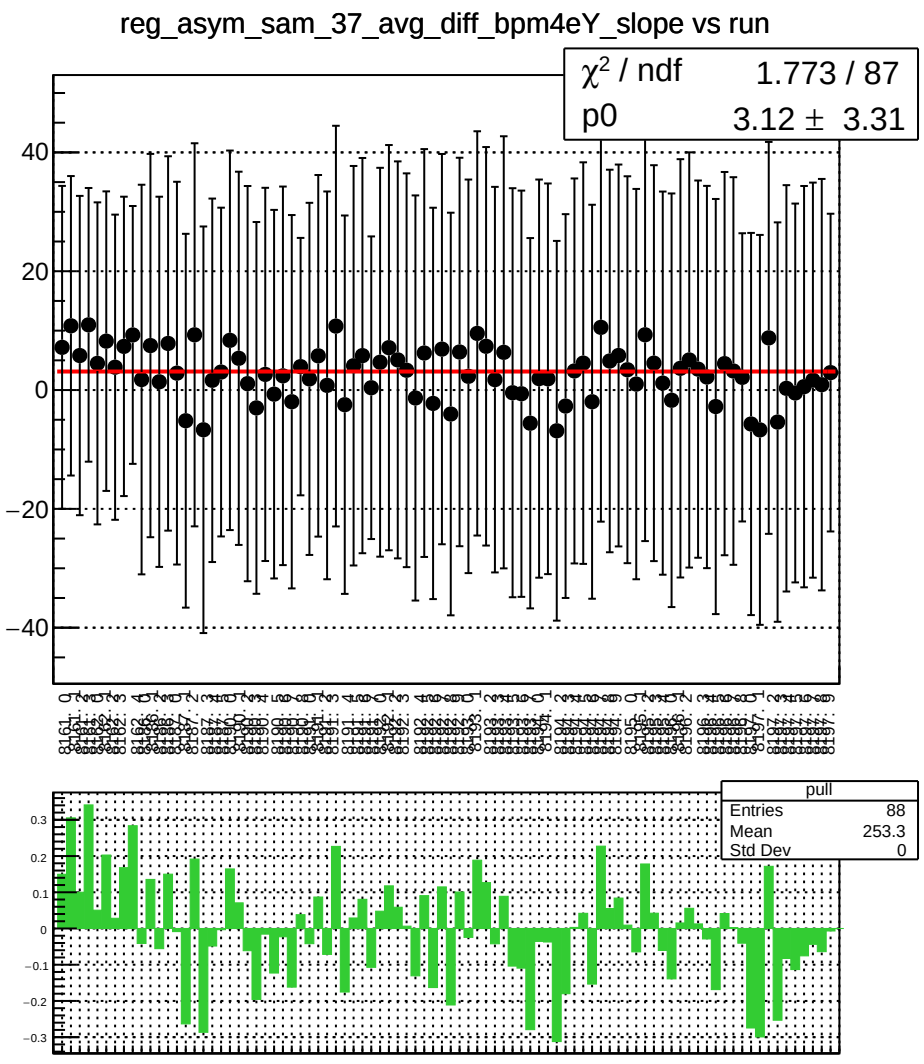

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 2.24 / 87
p0 −7.751 ± 1.842
pull
Entries 88
Mean 174.4
Std Dev 0

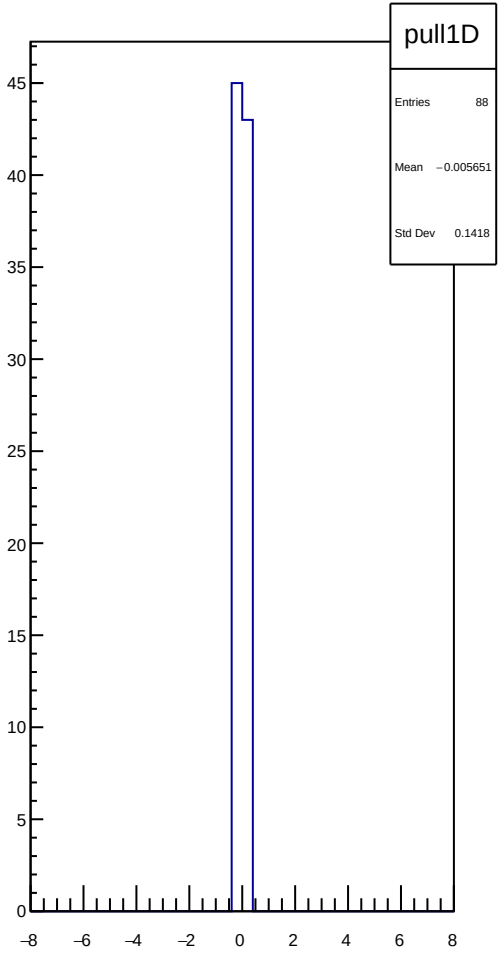

pull1D
Entries 88
Mean −0.0155
Std Dev 0.1588

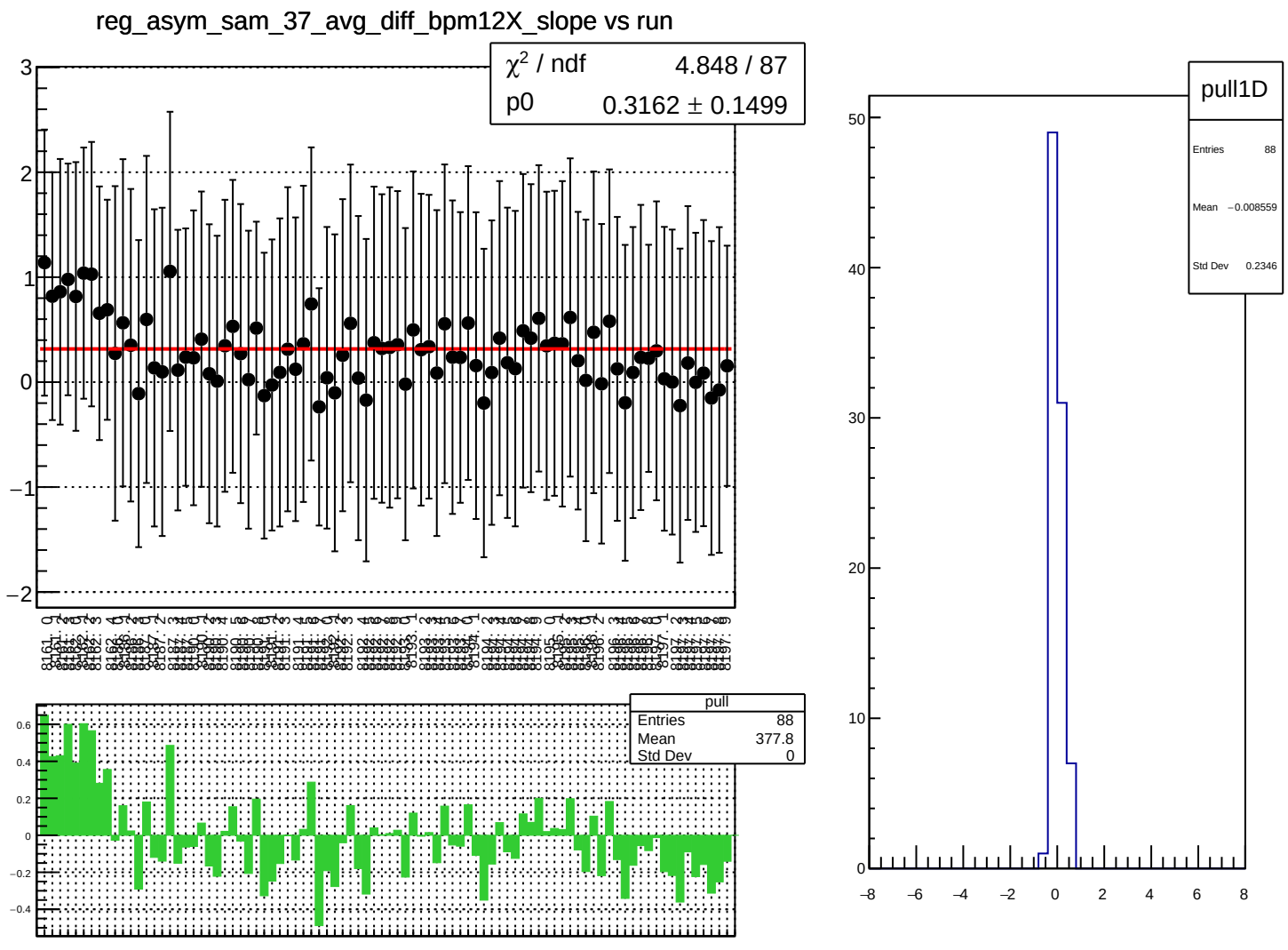

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.054 / 87
p0 4.207 ± 3.073
pull
Entries 88
Mean 264.1
Std Dev 0
pull1D
Entries 88
Mean 0.007087
Std Dev 0.1526

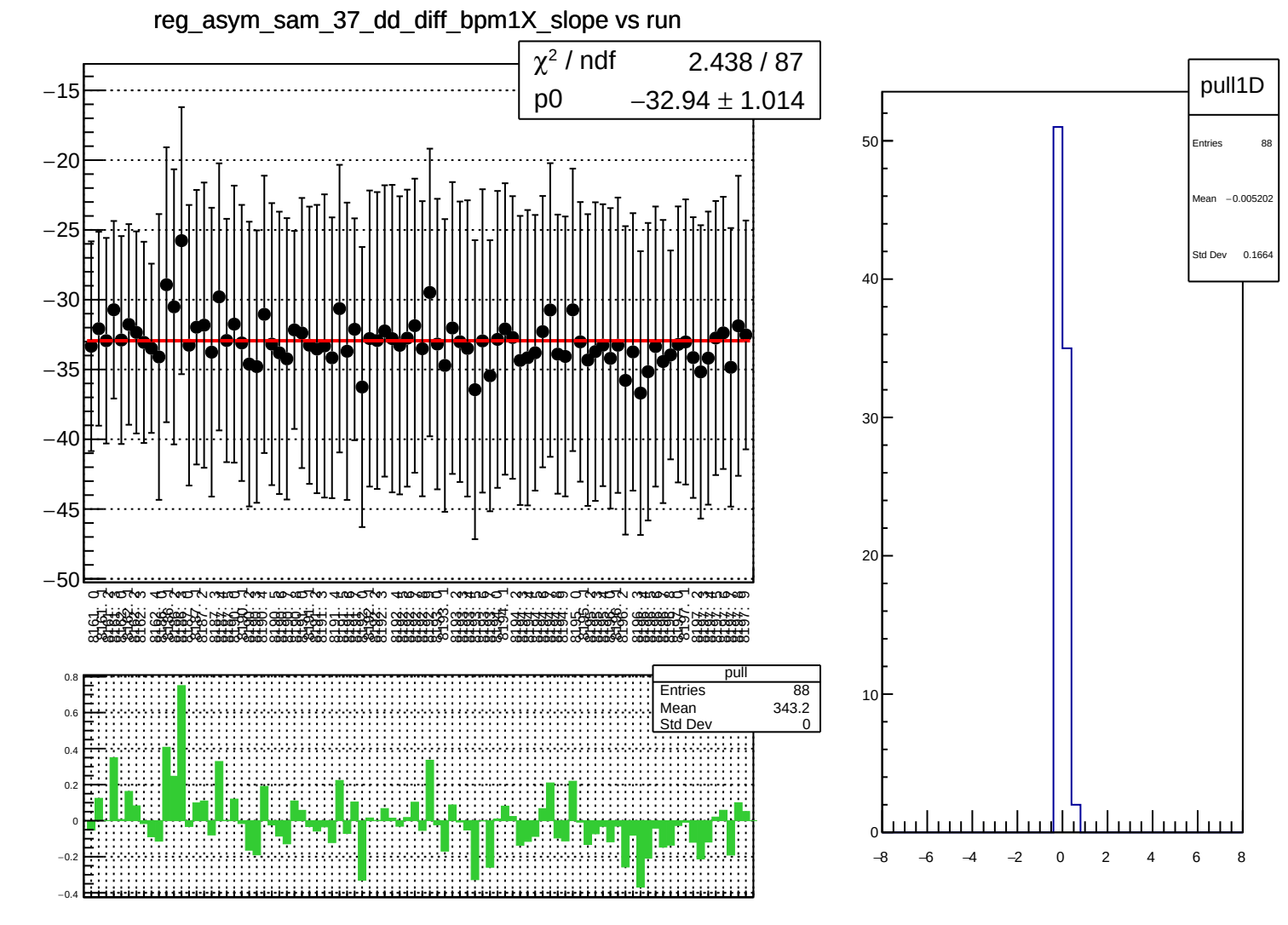

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.516 / 87
p0 −85.39 ± 1.844
−60
−70
−80
−90
−100
−110
pull
Entries 88
Mean 202.4
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

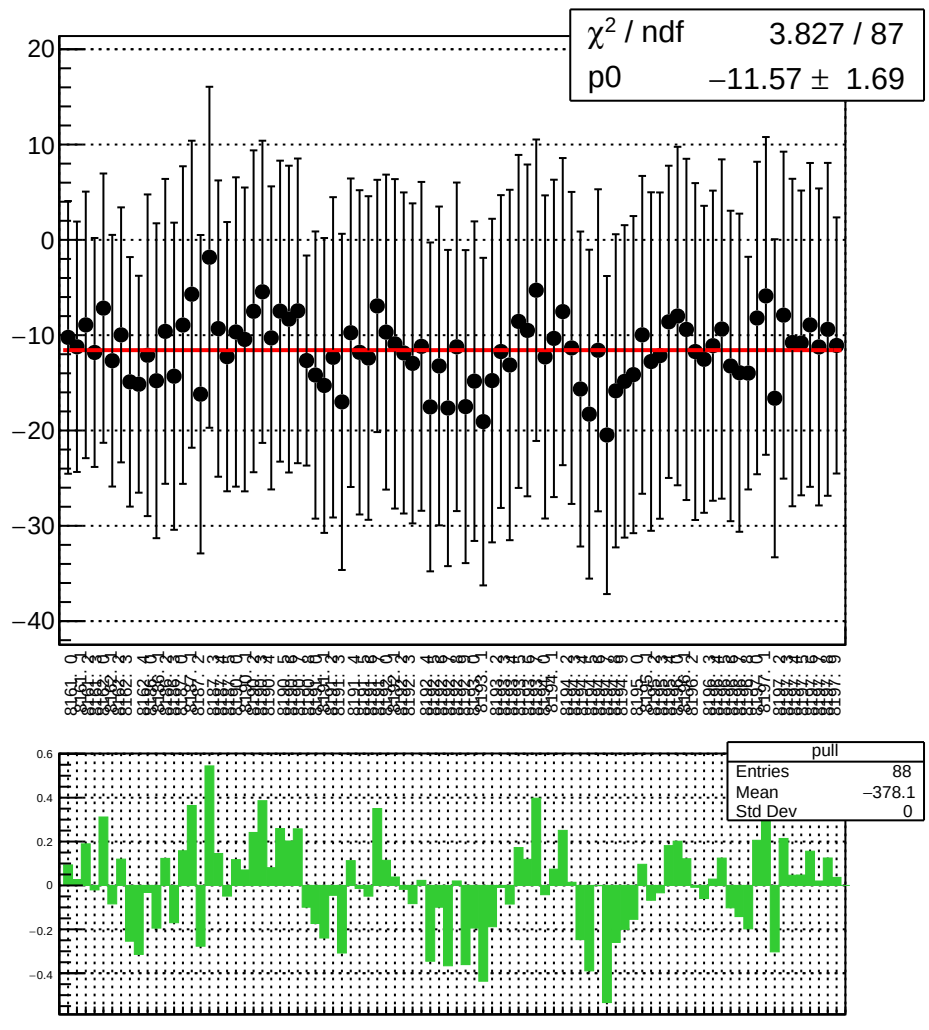

pull1D
Entries 88
Mean 0.01237
Std Dev 0.1687
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

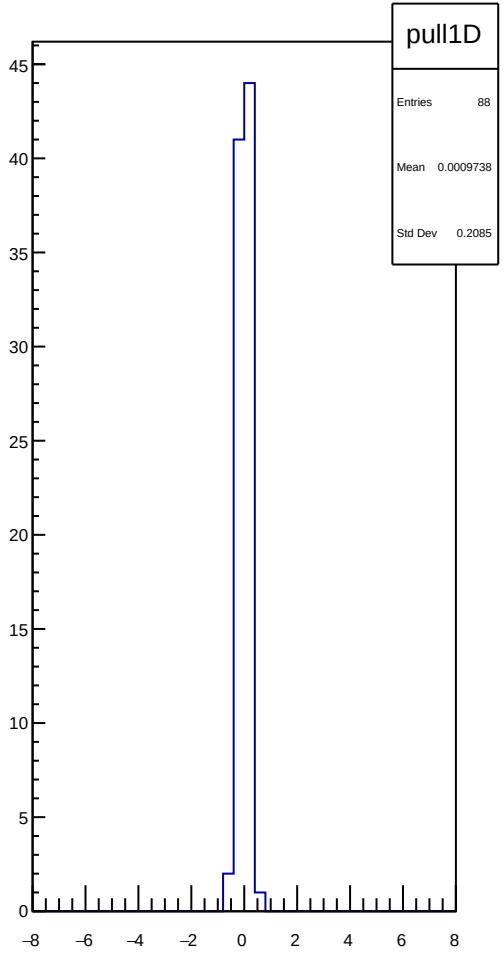

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.773 / 87
p0 3.12 ± 3.31
pull
Entries 88
Mean 253.3
Std Dev 0

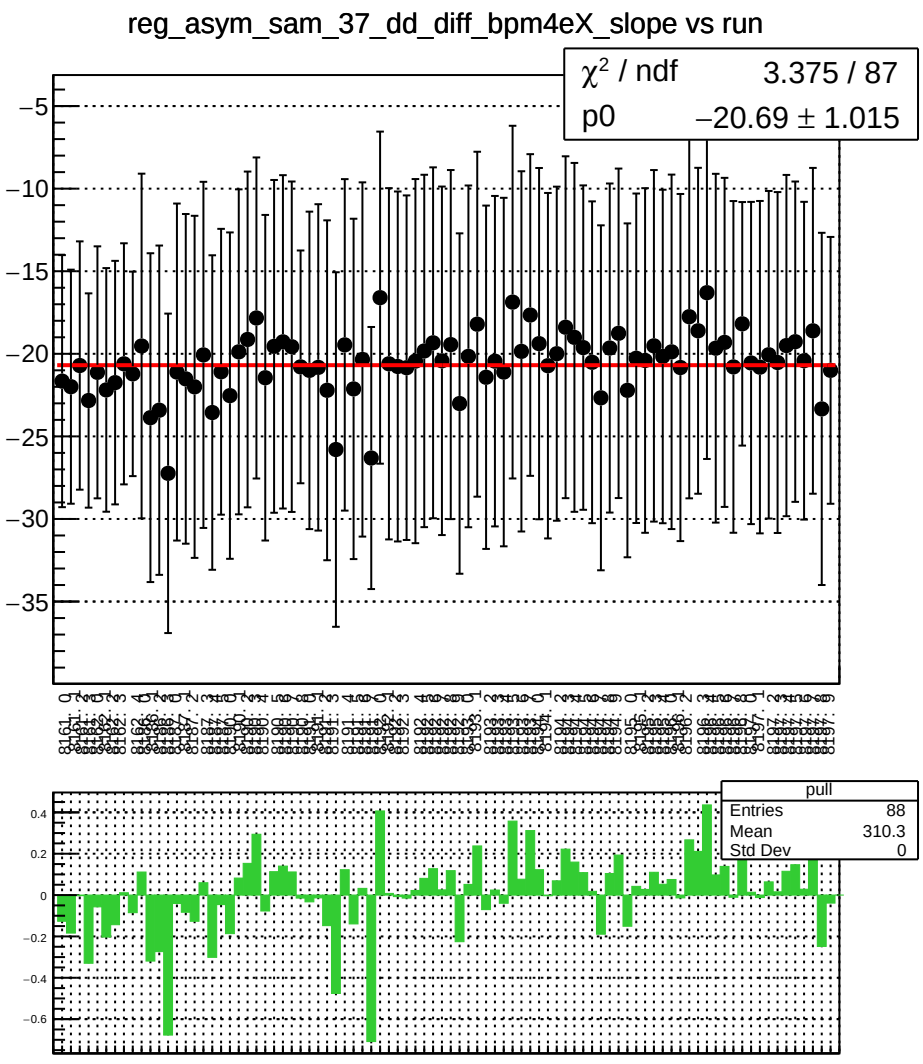

pull1D
Entries 88
Mean −0.005651
Std Dev 0.1418

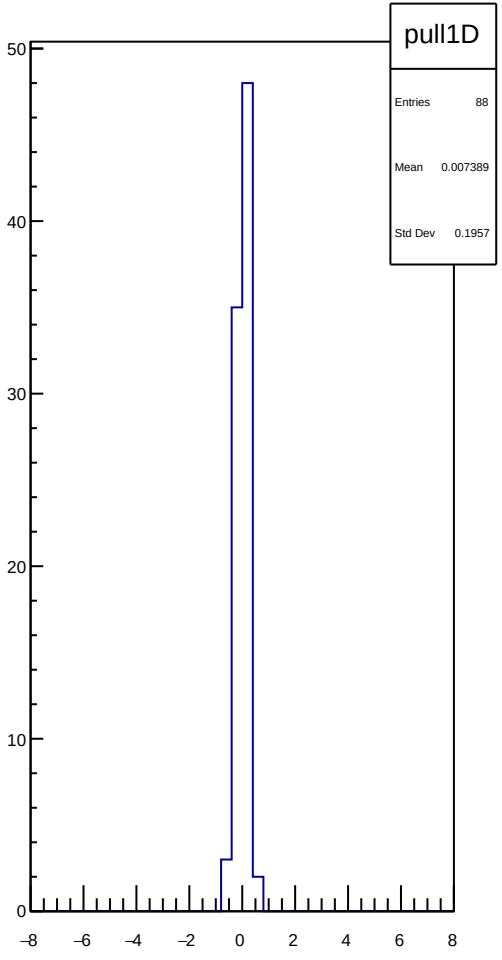

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.848 / 87
p0 0.3162 ± 0.1499
pull
Entries 88
Mean 377.8
Std Dev 0
pull1D
Entries 88
Mean −0.008559
Std Dev 0.2346

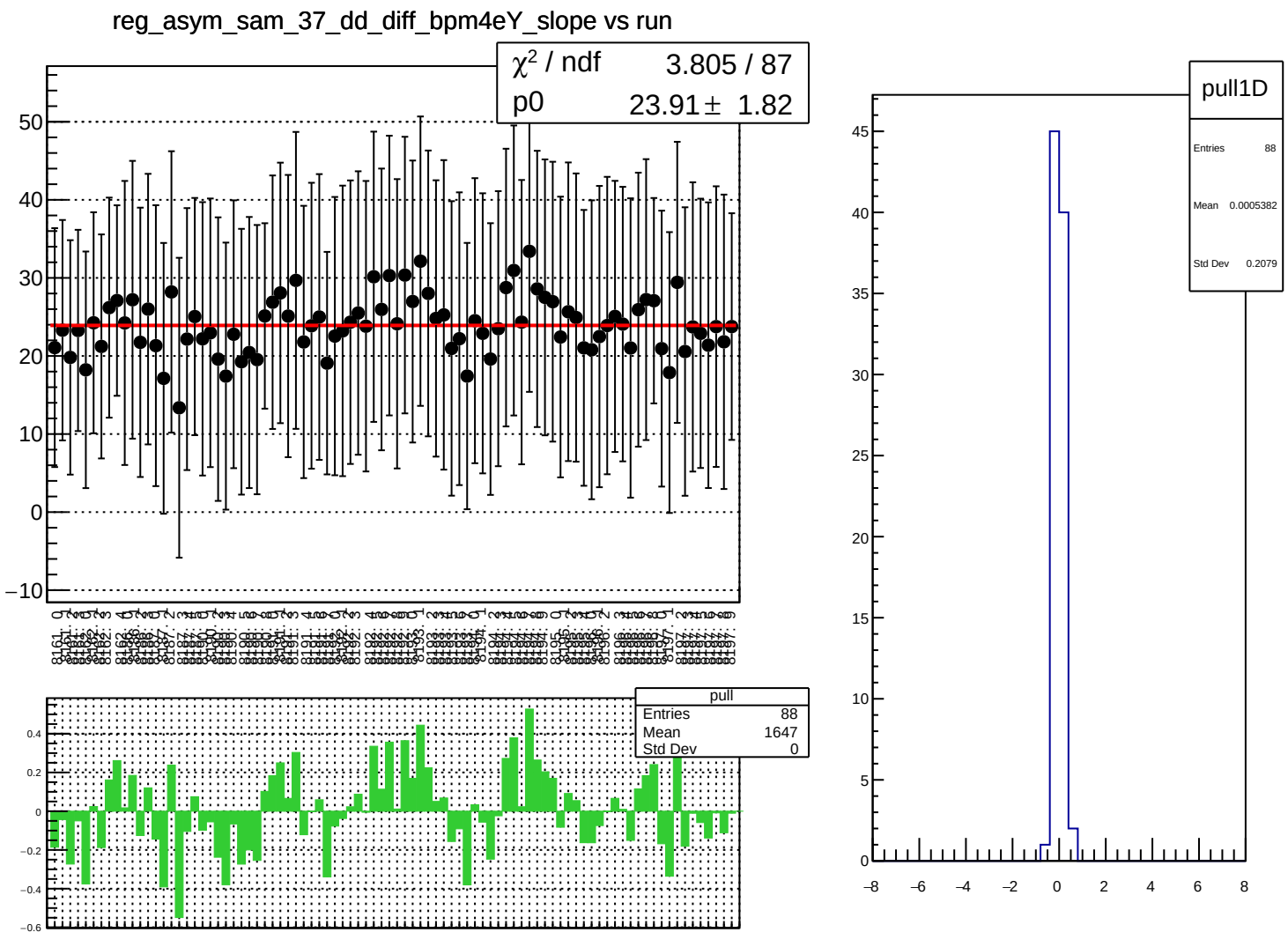

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.438 / 87
p0 −32.94 ± 1.014
pull
Entries 88
Mean 343.2
Std Dev 0
pull1D
Entries 88
Mean −0.005202
Std Dev 0.1664

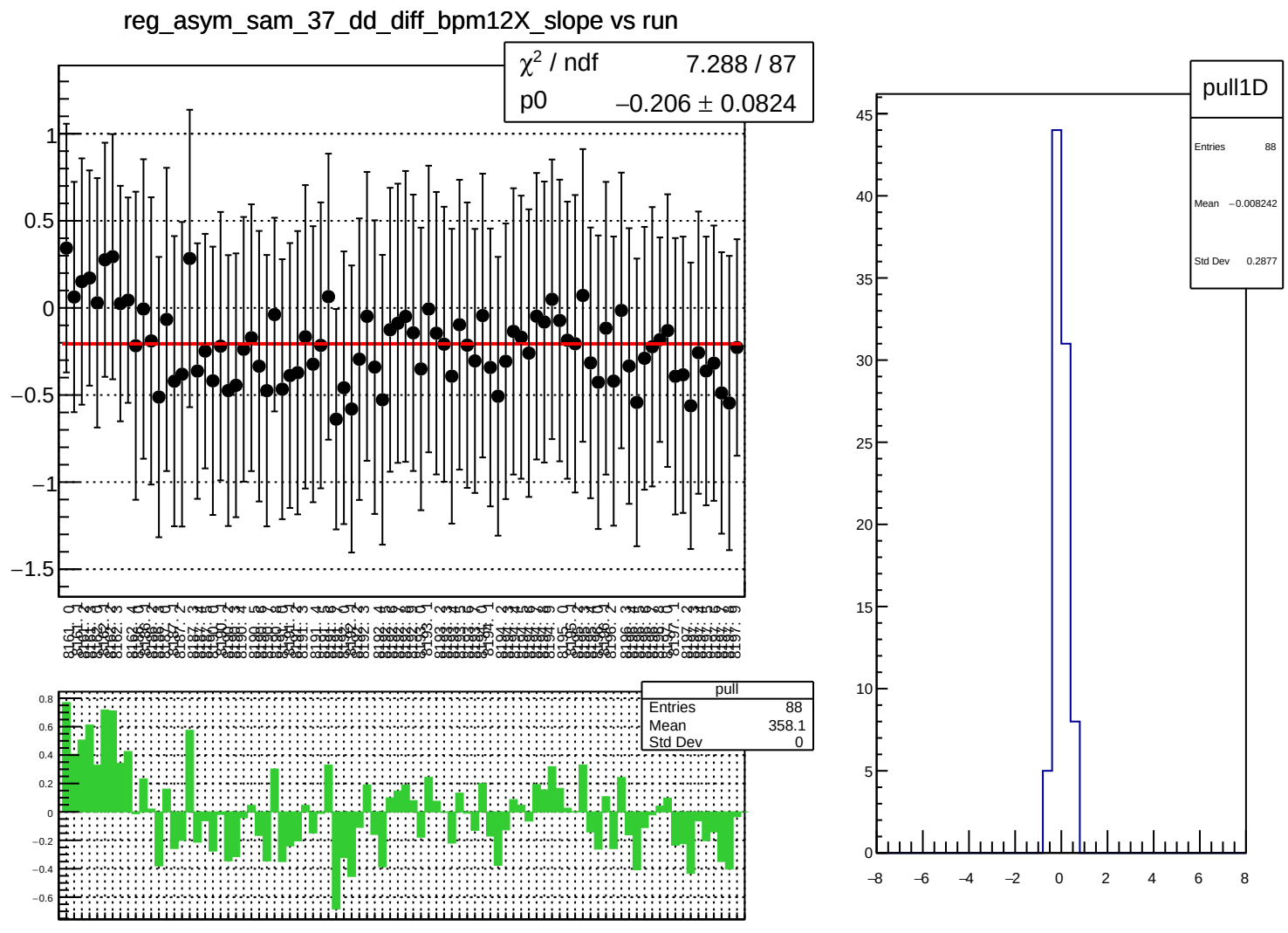

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.827 / 87
p0 −11.57 ± 1.69
pull
Entries 88
Mean −378.1
Std Dev 0

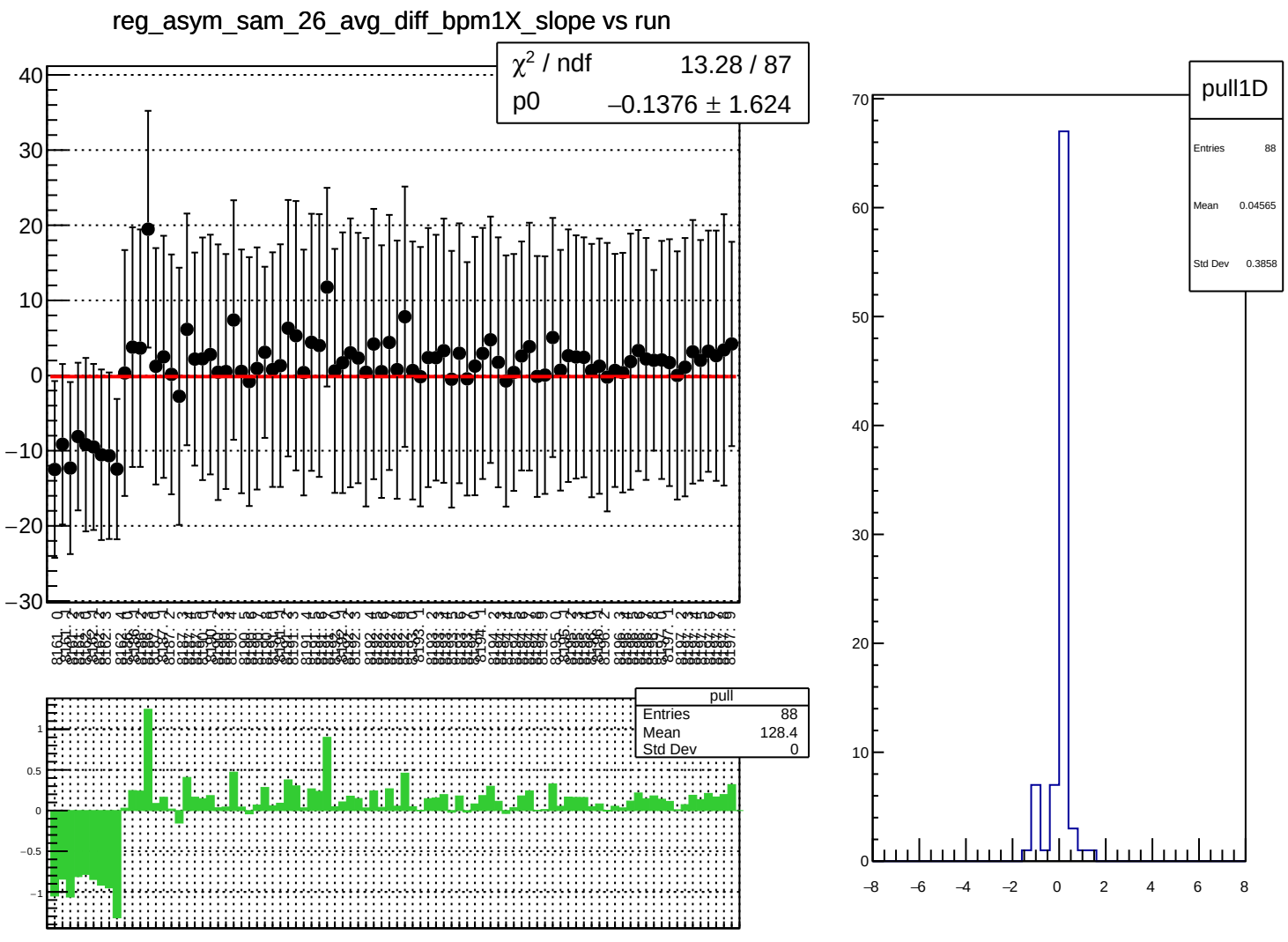

pull1D
Entries 88
Mean 0.0009738
Std Dev 0.2085

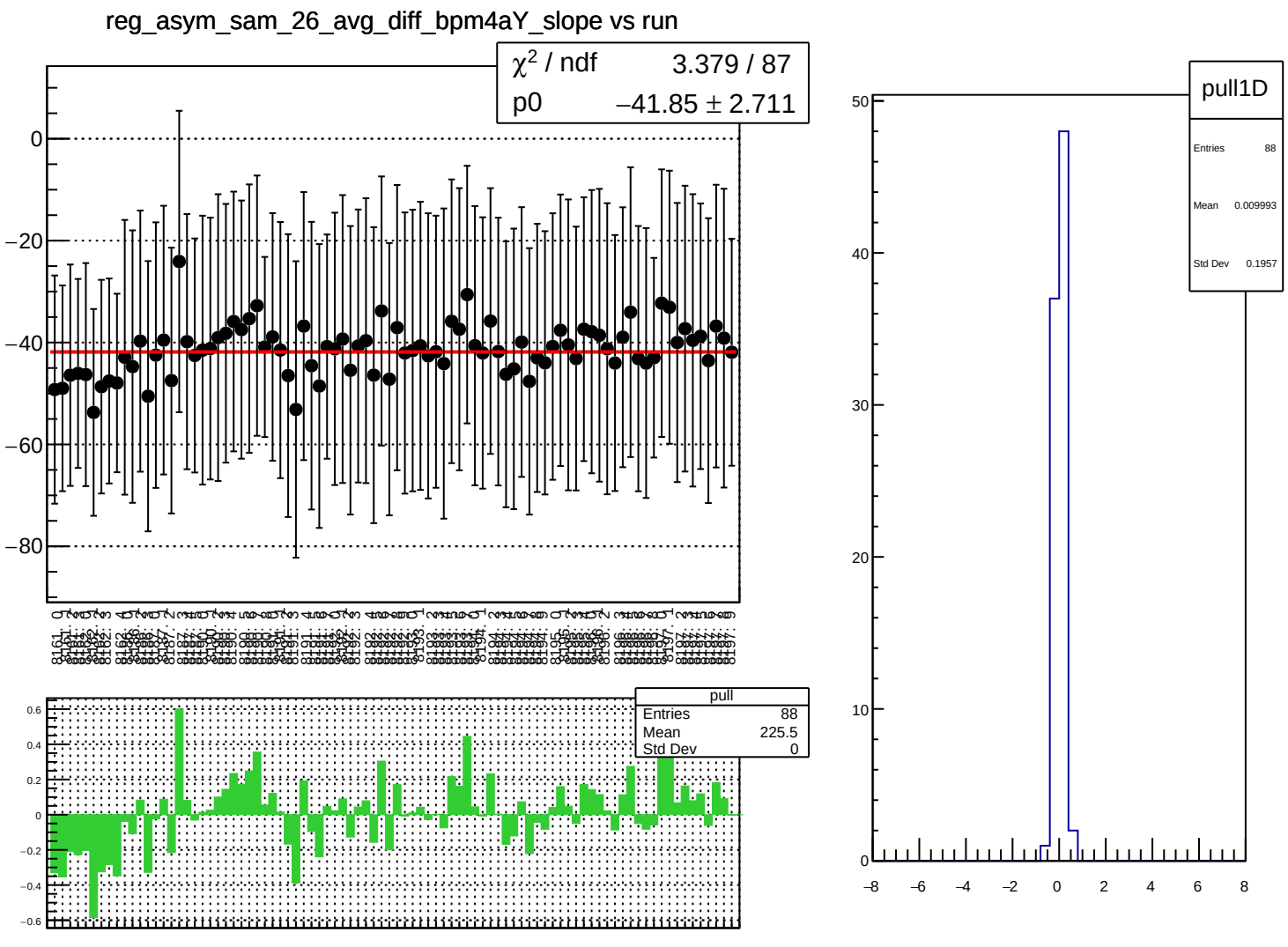

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.375 / 87
p0 −20.69 ± 1.015
pull
Entries 88
Mean 310.3
Std Dev 0

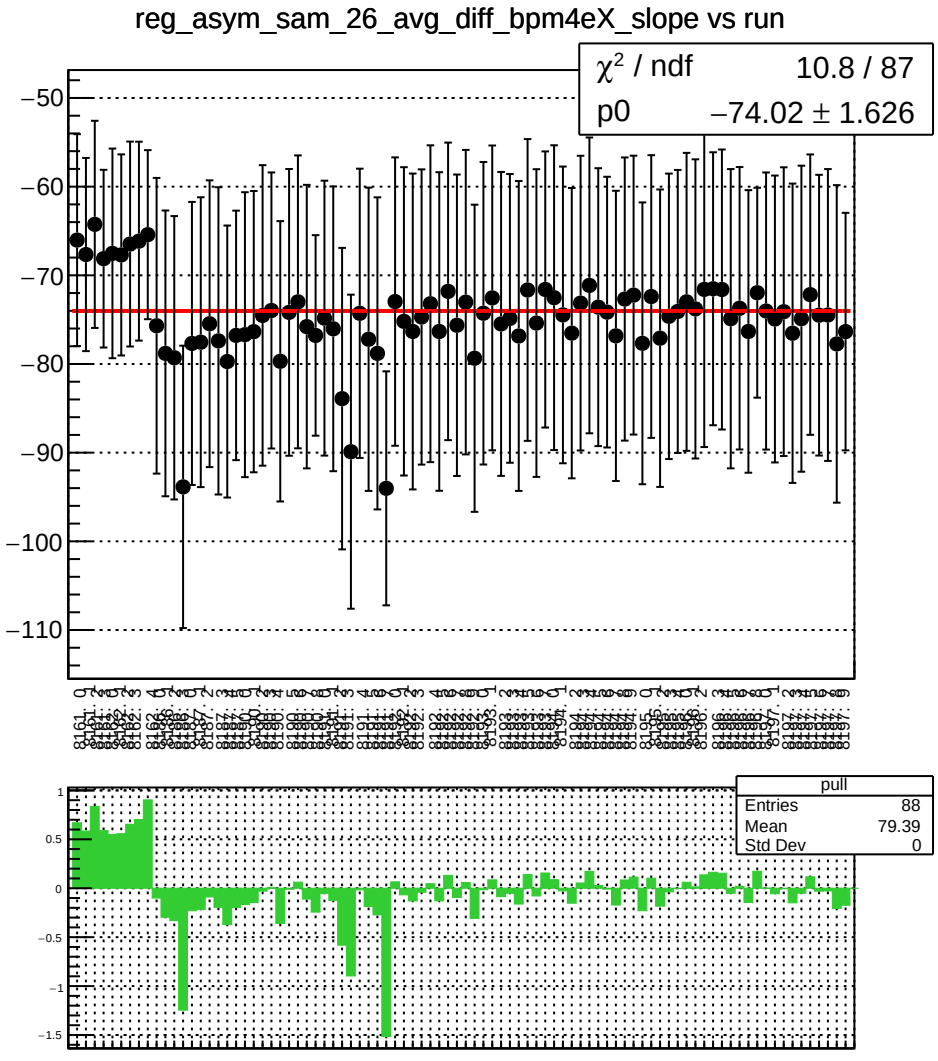

pull1D
Entries 88
Mean 0.007389
Std Dev 0.1957

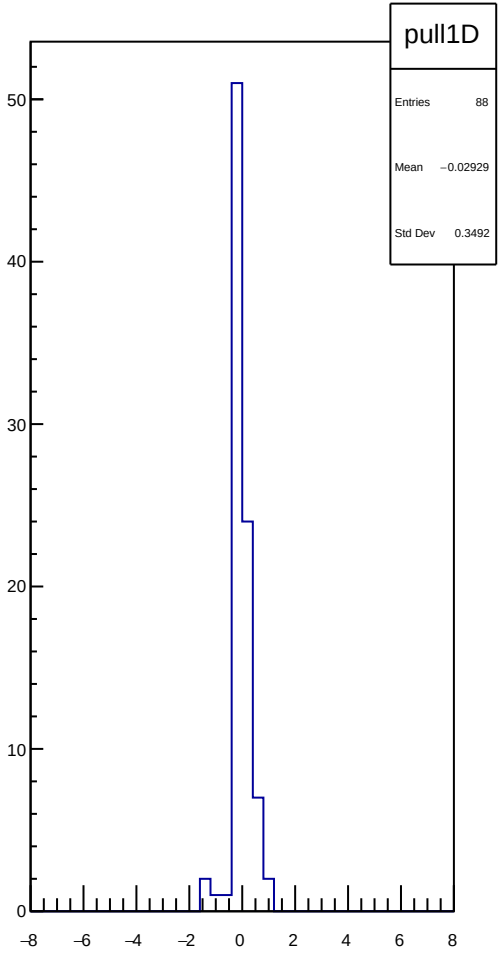

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.805 / 87
p0 23.91 ± 1.82
pull
Entries 88
Mean 1647
Std Dev 0
pull1D
Entries 88
Mean 0.0005382
Std Dev 0.2079

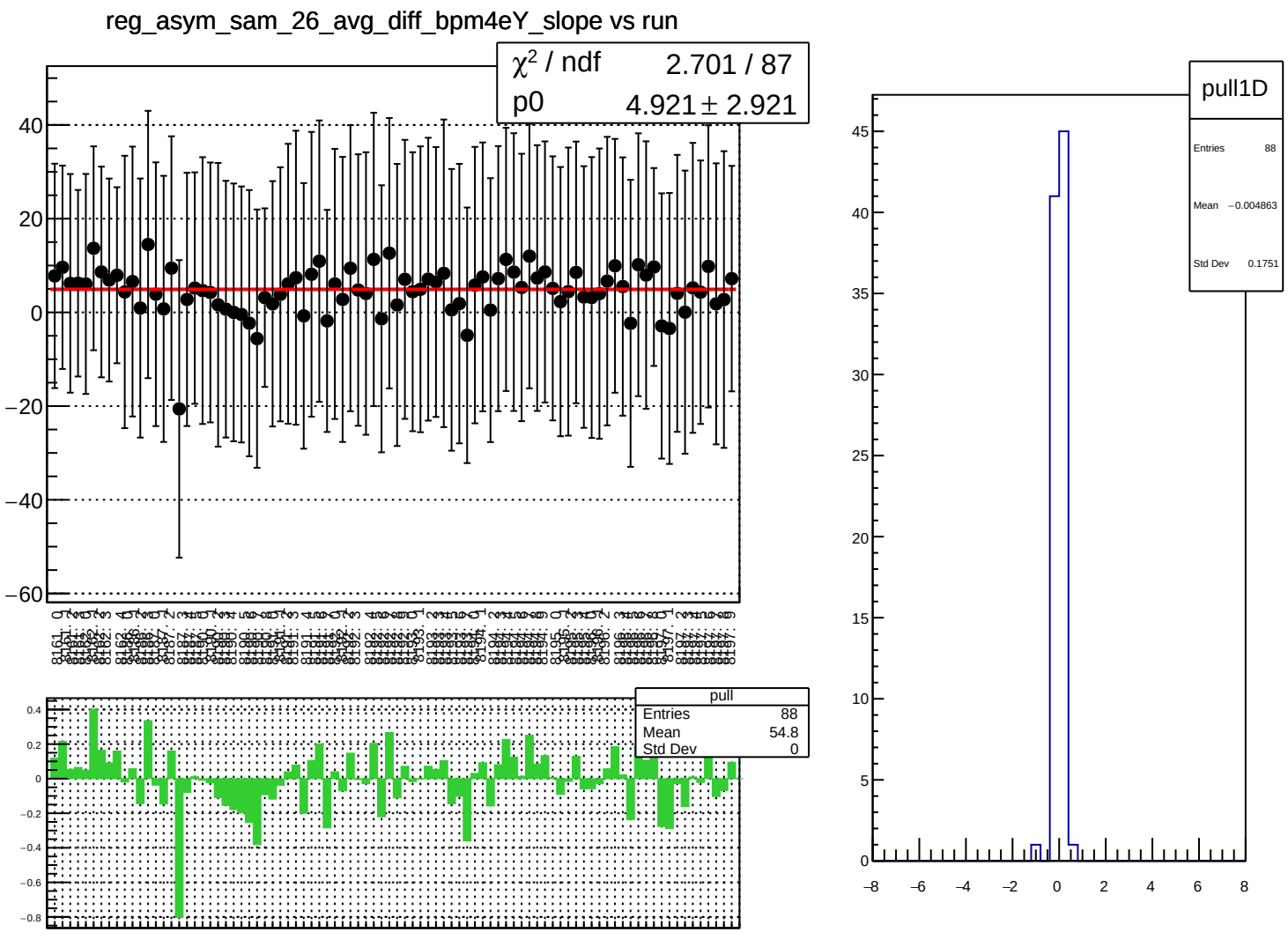

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.288 / 87
p0 −0.206 ± 0.0824
pull
Entries 88
Mean 358.1
Std Dev 0
pull1D
Entries 88
Mean −0.008242
Std Dev 0.2877

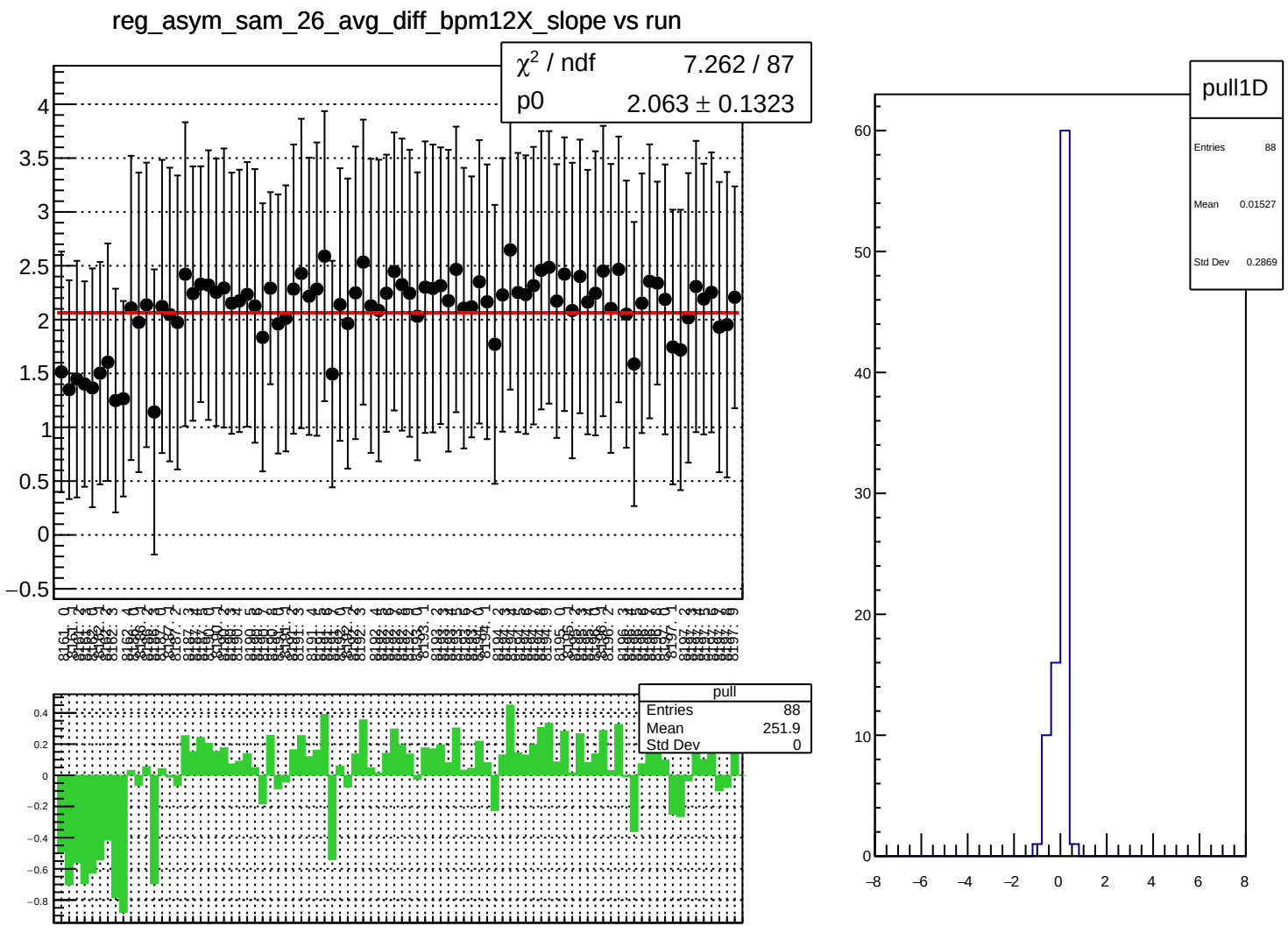

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 13.28 / 87
p0 −0.1376 ± 1.624
pull
Entries 88
Mean 128.4
Std Dev 0
pull1D
Entries 88
Mean 0.04565
Std Dev 0.3858

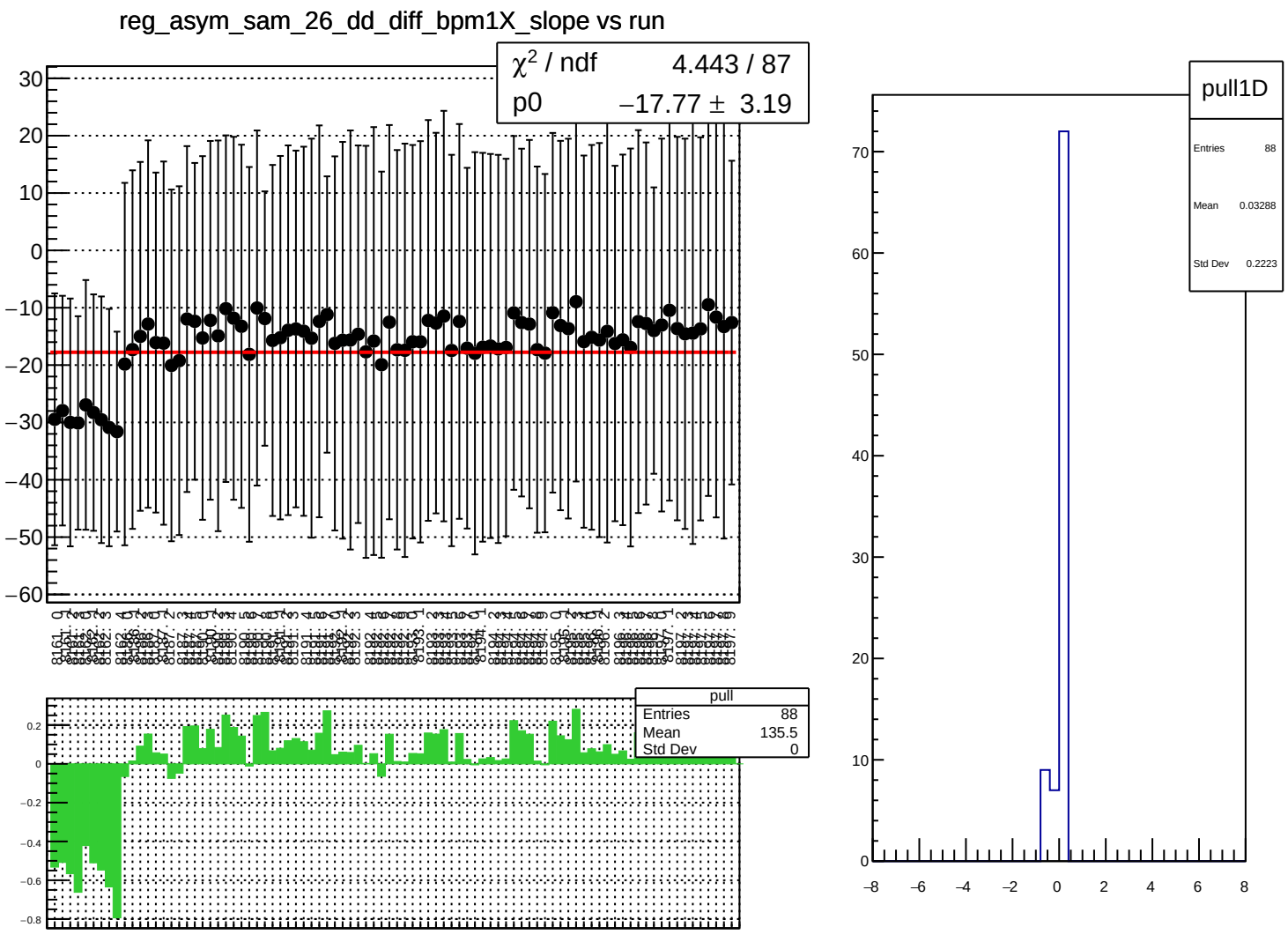

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.379 / 87
p0 −41.85 ± 2.711
0
−20
−40
−60
−80
pull
Entries 88
Mean 225.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.009993
Std Dev 0.1957
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

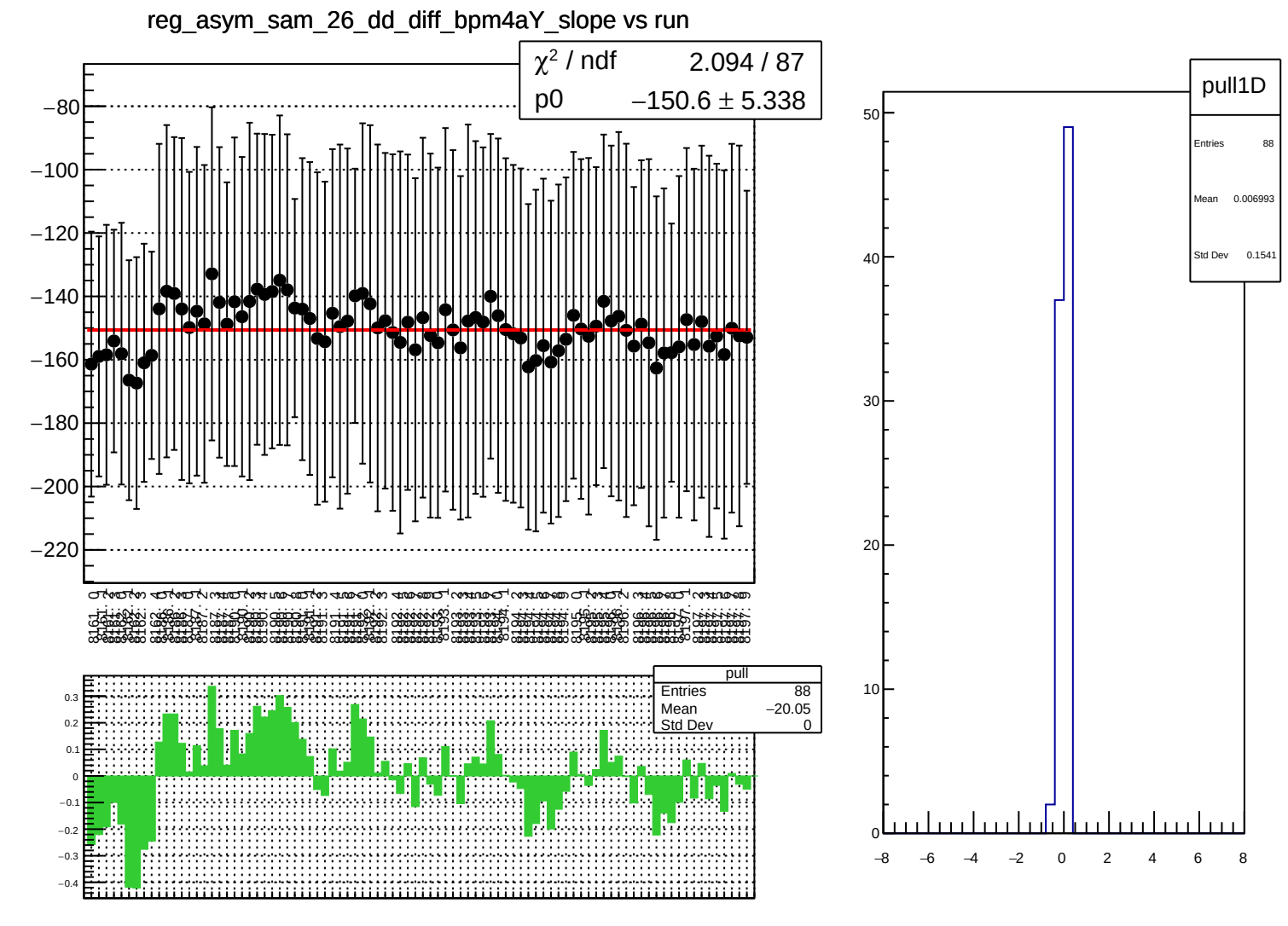

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.8 / 87
p0 −74.02 ± 1.626
pull
Entries 88
Mean 79.39
Std Dev 0

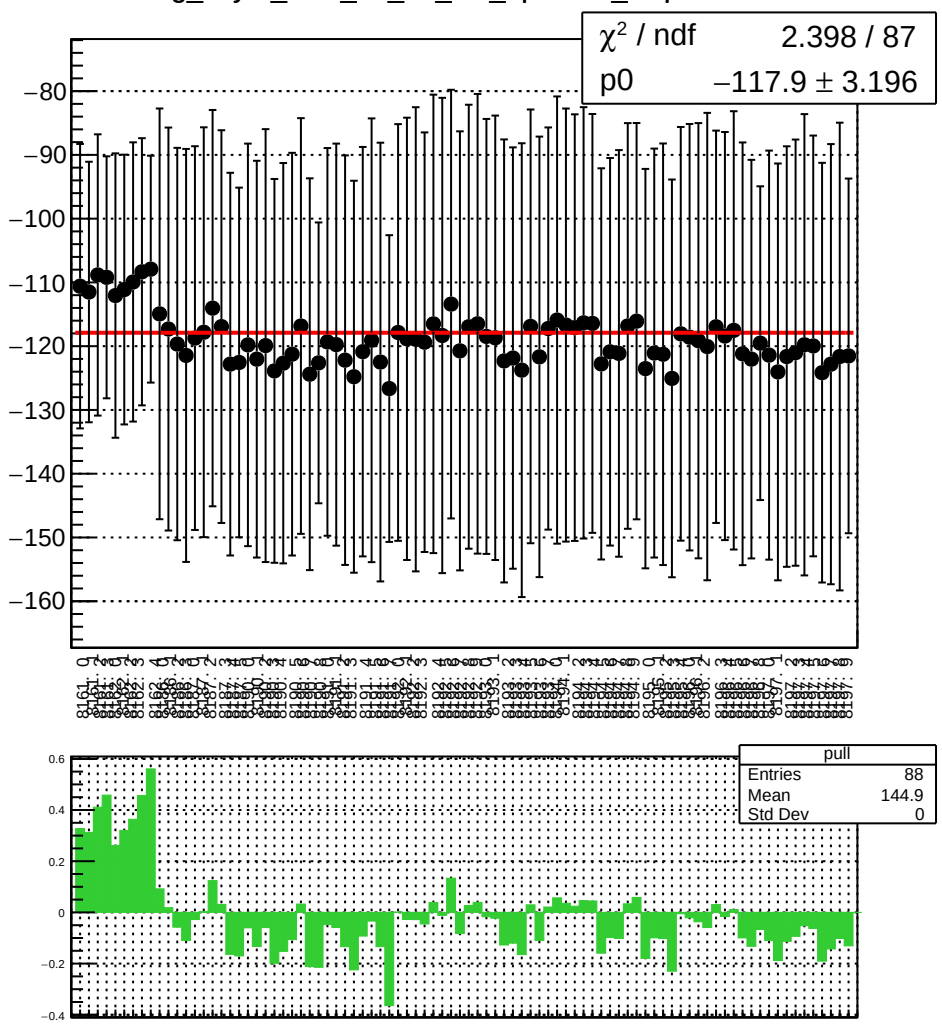

pull1D
Entries 88
Mean −0.02929
Std Dev 0.3492

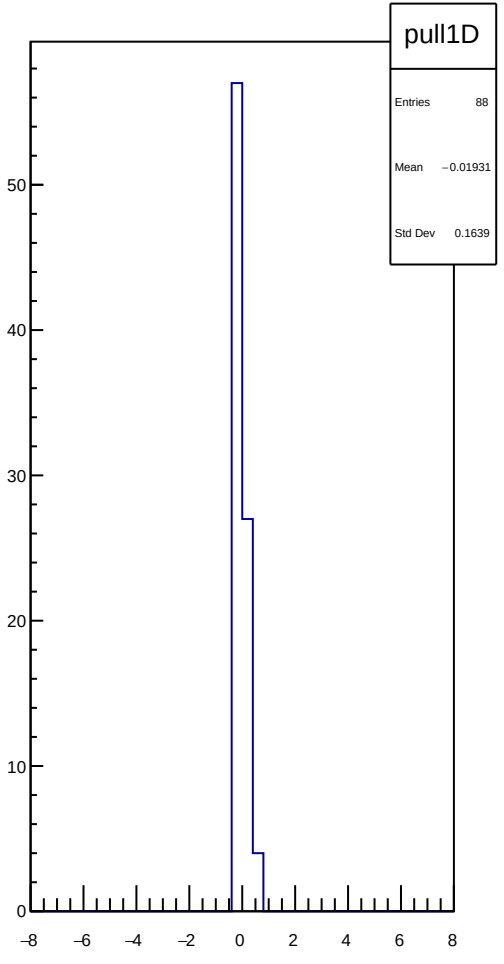

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.701 / 87
p0 4.921 ± 2.921
pull
Entries 88
Mean 54.8
Std Dev 0
pull1D
Entries 88
Mean −0.004863
Std Dev 0.1751

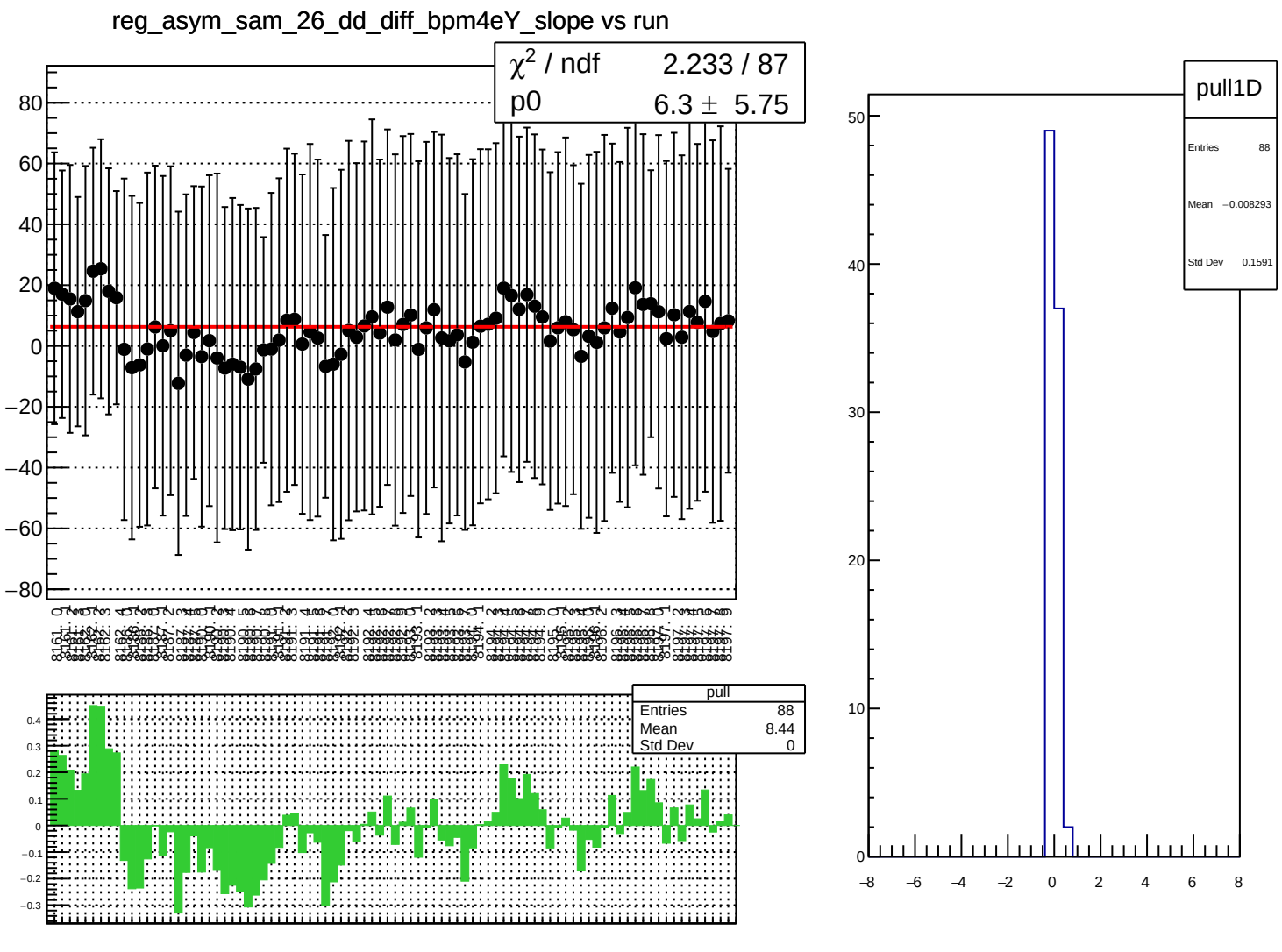

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.262 / 87
p0 2.063 ± 0.1323
pull
Entries 88
Mean 251.9
Std Dev 0
pull1D
Entries 88
Mean 0.01527
Std Dev 0.2869

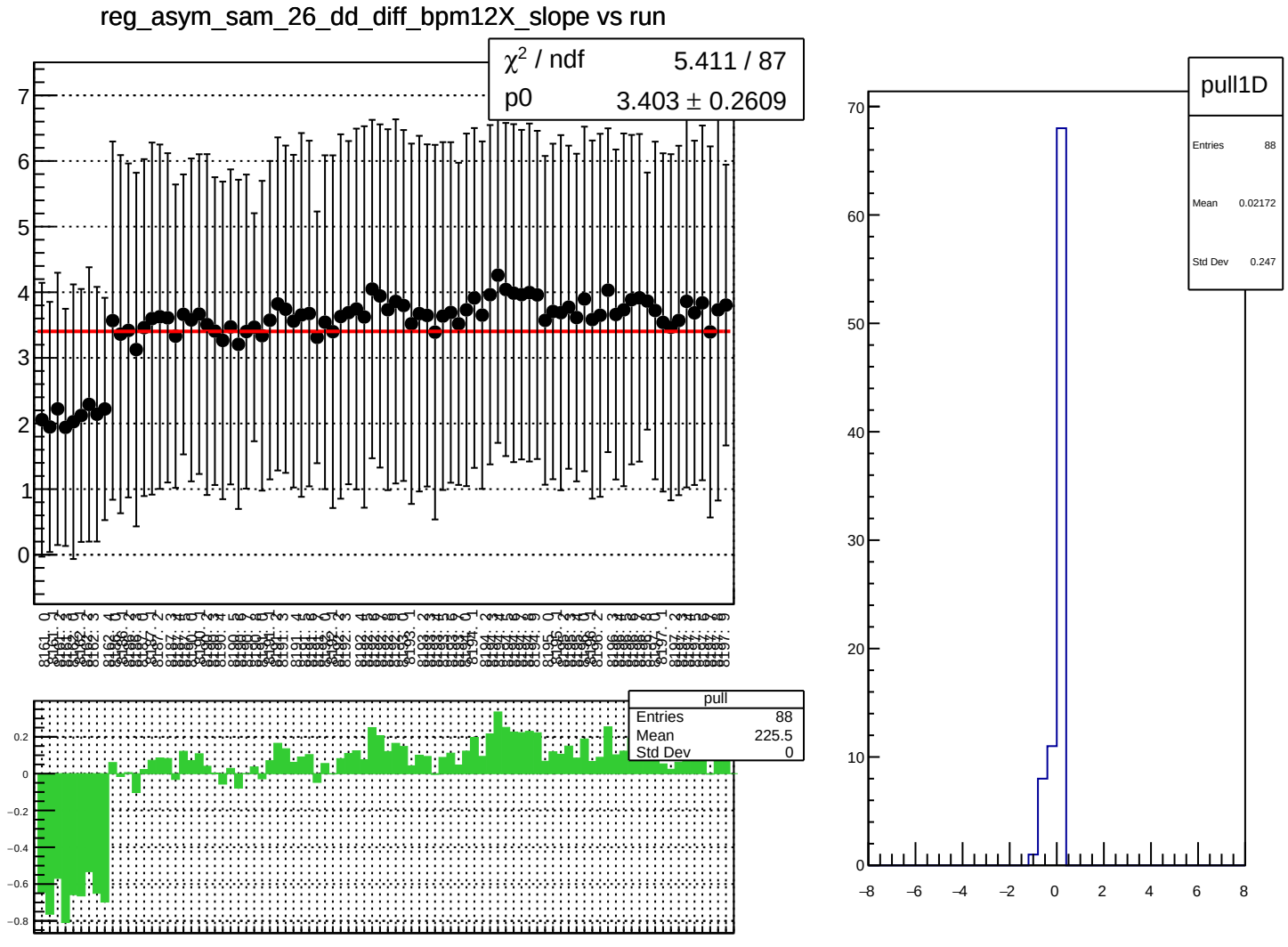

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.443 / 87
p0 −17.77 ± 3.19
pull
Entries 88
Mean 135.5
Std Dev 0
pull1D
Entries 88
Mean 0.03288
Std Dev 0.2223

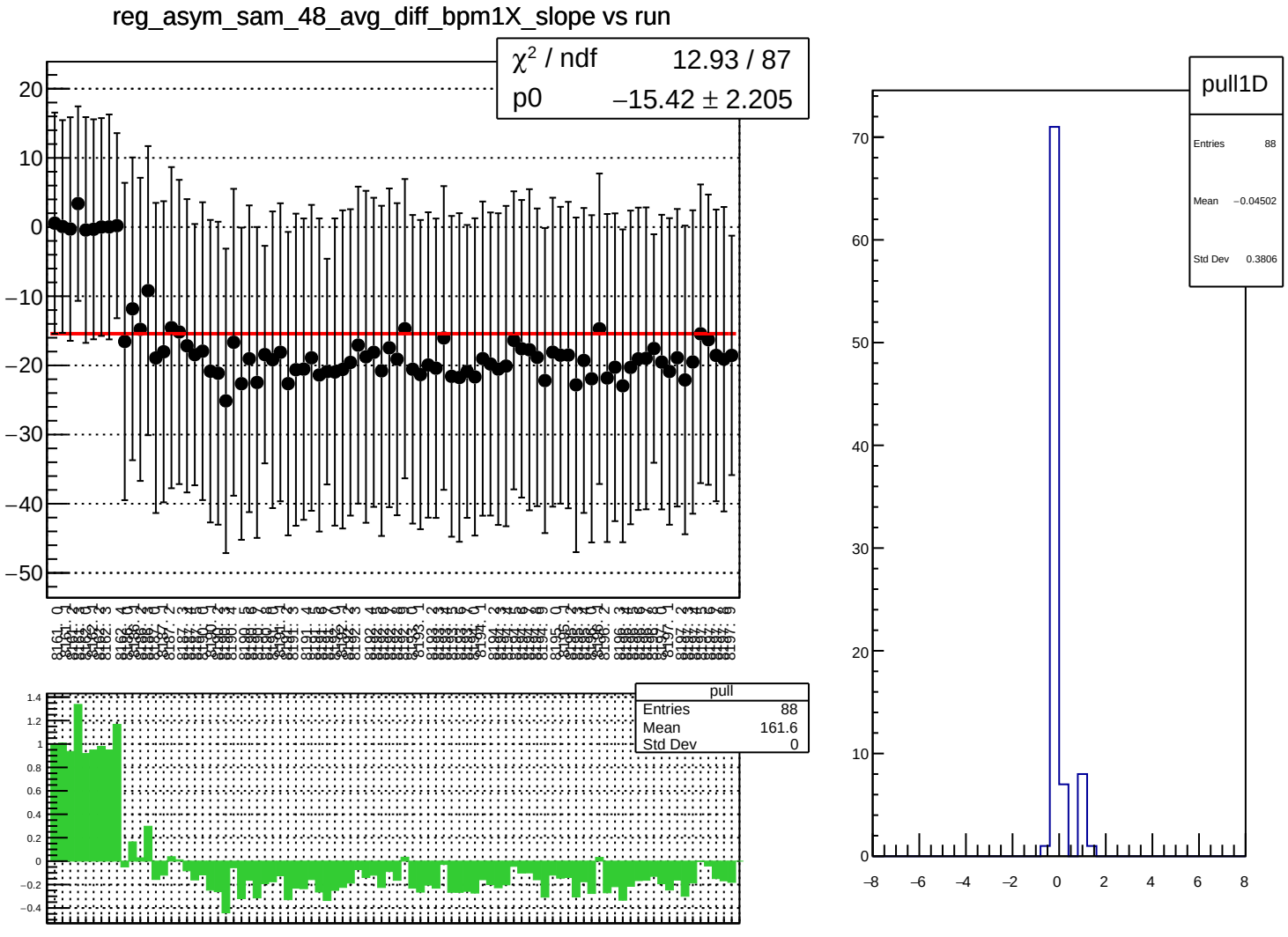

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.094 / 87
p0 −150.6 ± 5.338
pull
Entries 88
Mean −20.05
Std Dev 0
pull1D
Entries 88
Mean 0.006993
Std Dev 0.1541

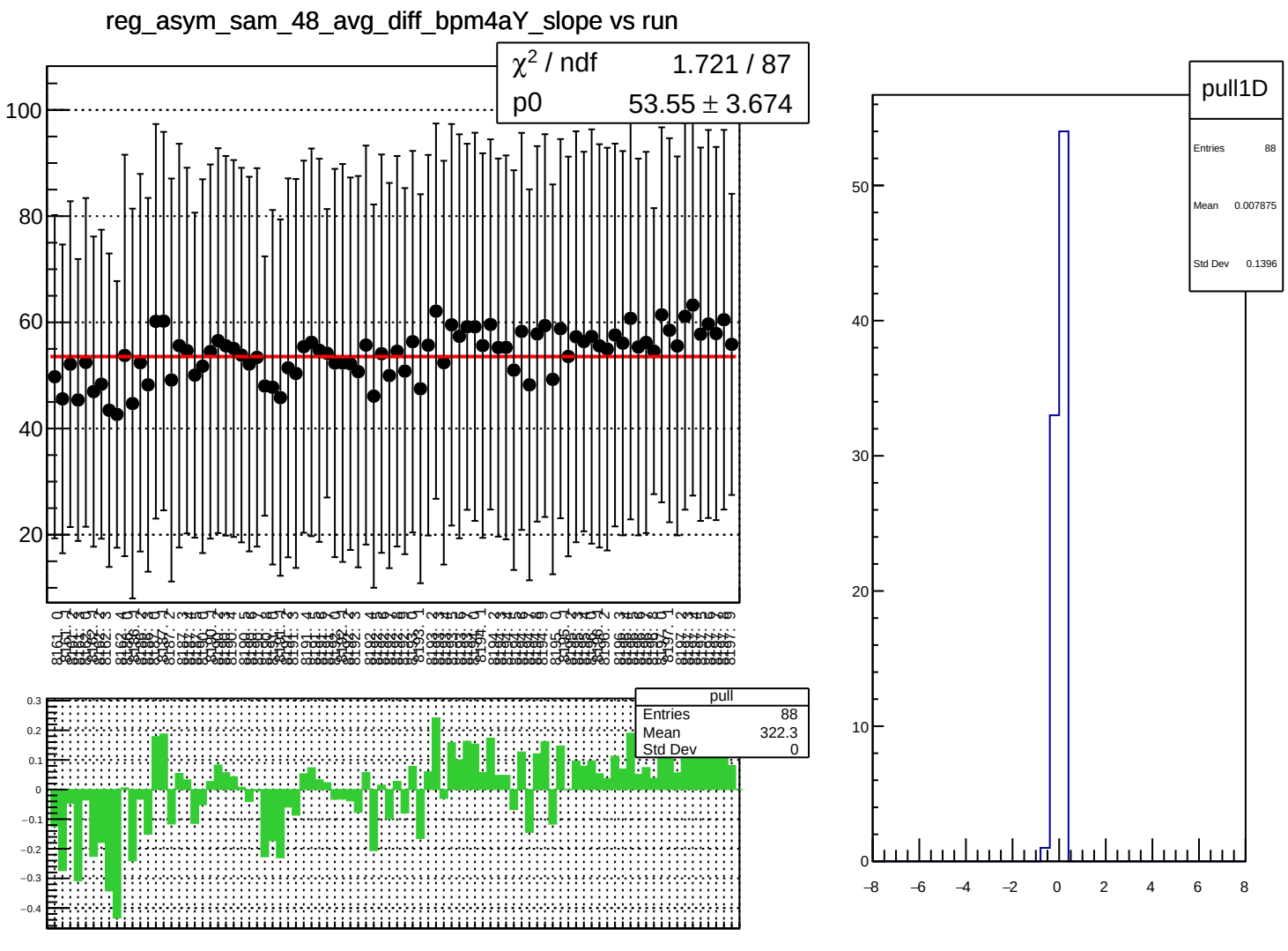

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.398 / 87
p0 −117.9 ± 3.196
pull
Entries 88
Mean 144.9
Std Dev 0

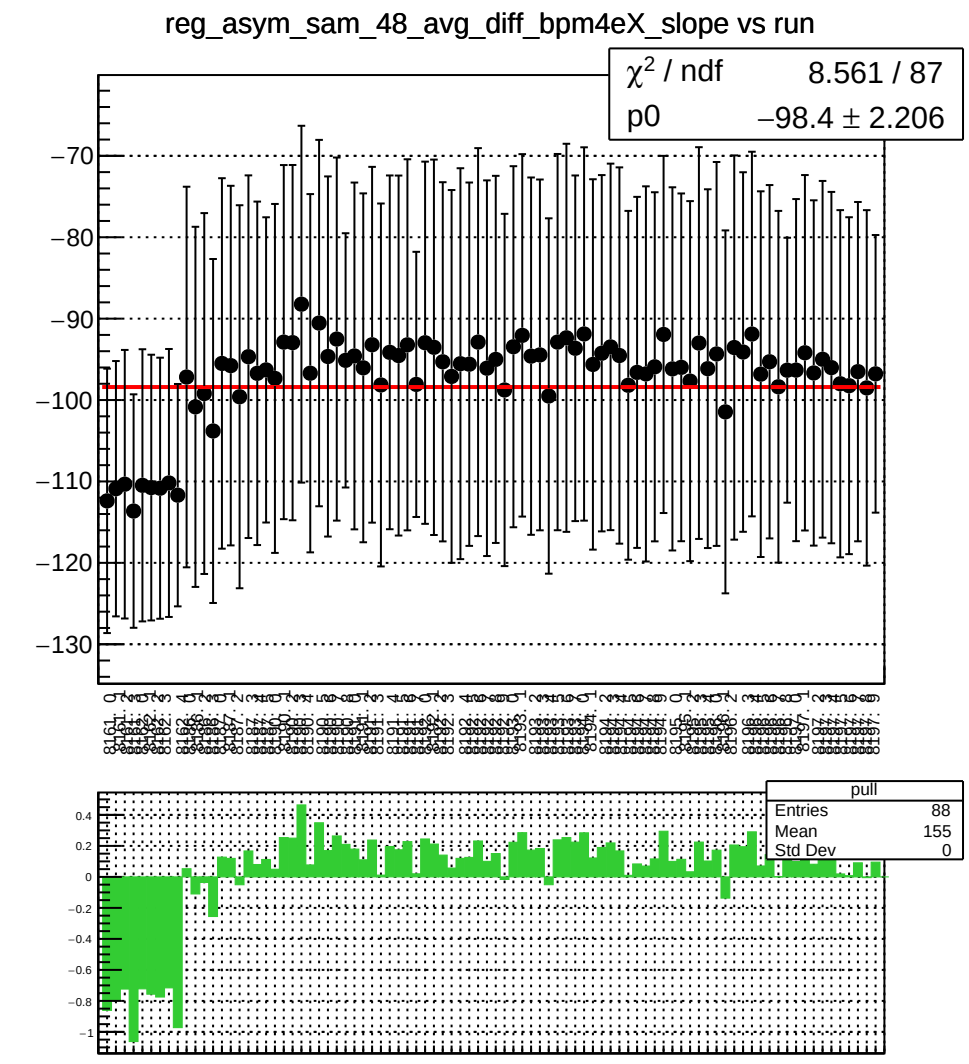

pull1D
Entries 88
Mean −0.01931
Std Dev 0.1639

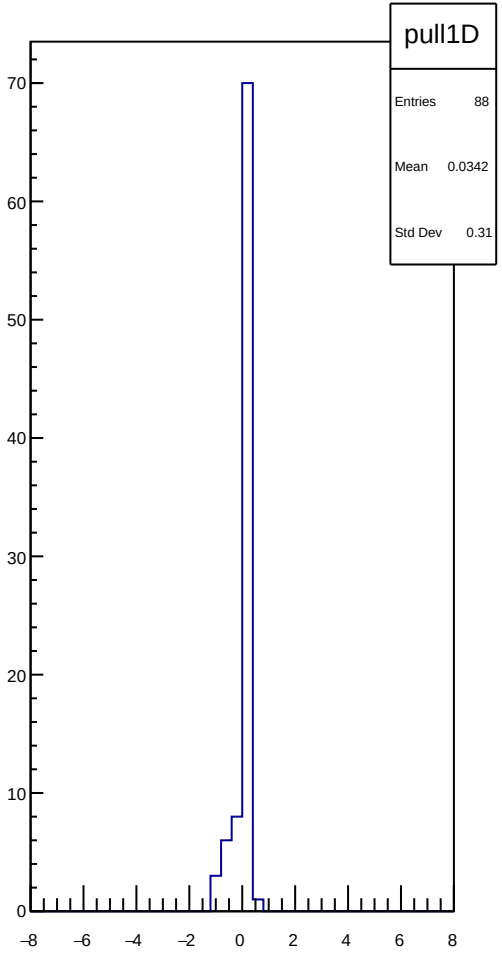

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.233 / 87
p0 6.3 ± 5.75
pull
Entries 88
Mean 8.44
Std Dev 0
pull1D
Entries 88
Mean −0.008293
Std Dev 0.1591

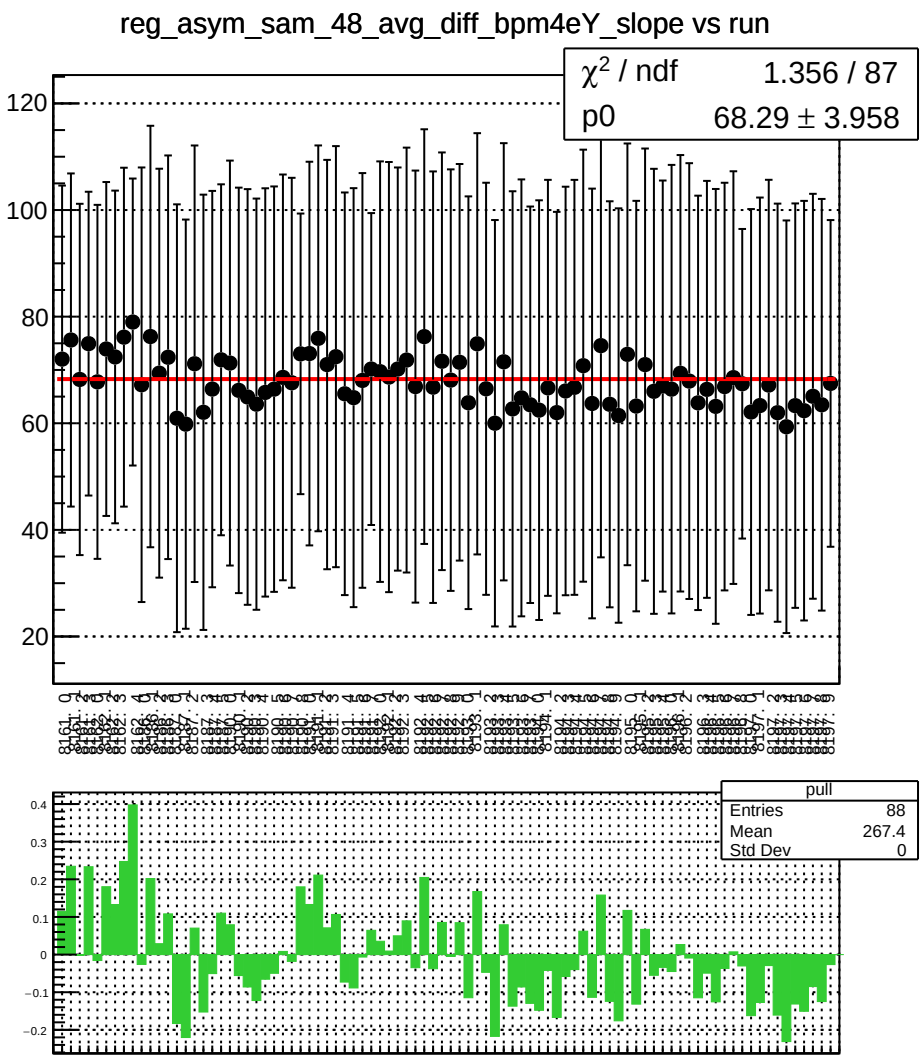

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 5.411 / 87
p0 3.403 ± 0.2609
pull
Entries 88
Mean 225.5
Std Dev 0
pull1D
Entries 88
Mean 0.02172
Std Dev 0.247

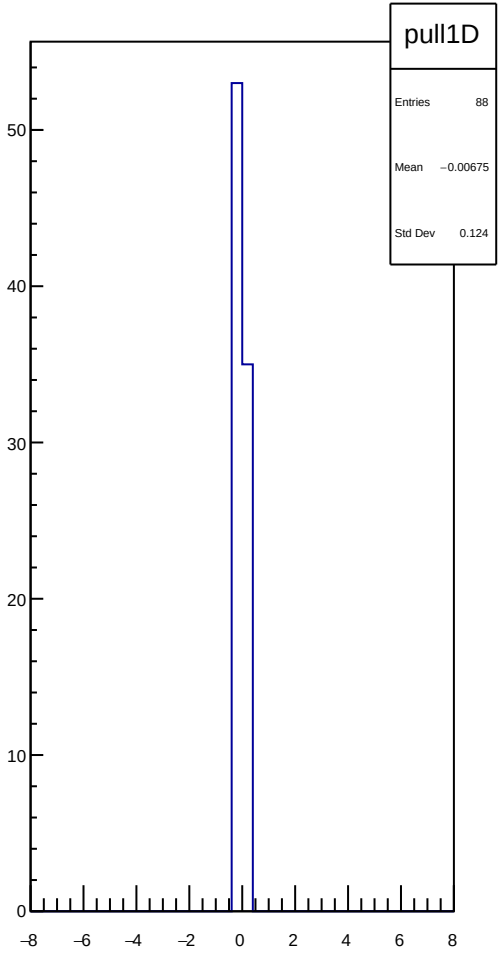

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 12.93 / 87
p0 −15.42 ± 2.205
pull
Entries 88
Mean 161.6
Std Dev 0
pull1D
Entries 88
Mean −0.04502
Std Dev 0.3806

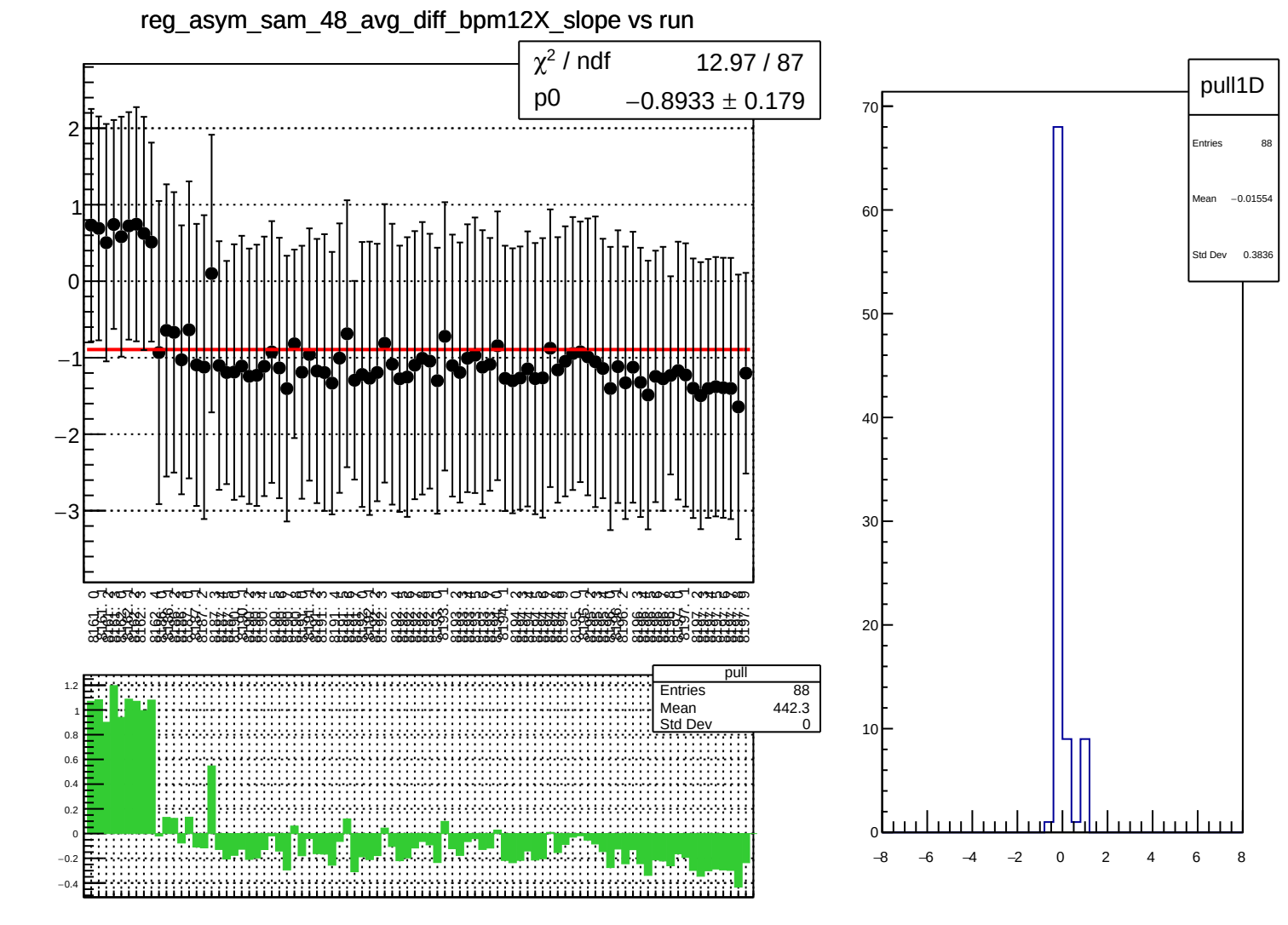

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.721 / 87
p0 53.55 ± 3.674
pull
Entries 88
Mean 322.3
Std Dev 0
pull1D
Entries 88
Mean 0.007875
Std Dev 0.1396

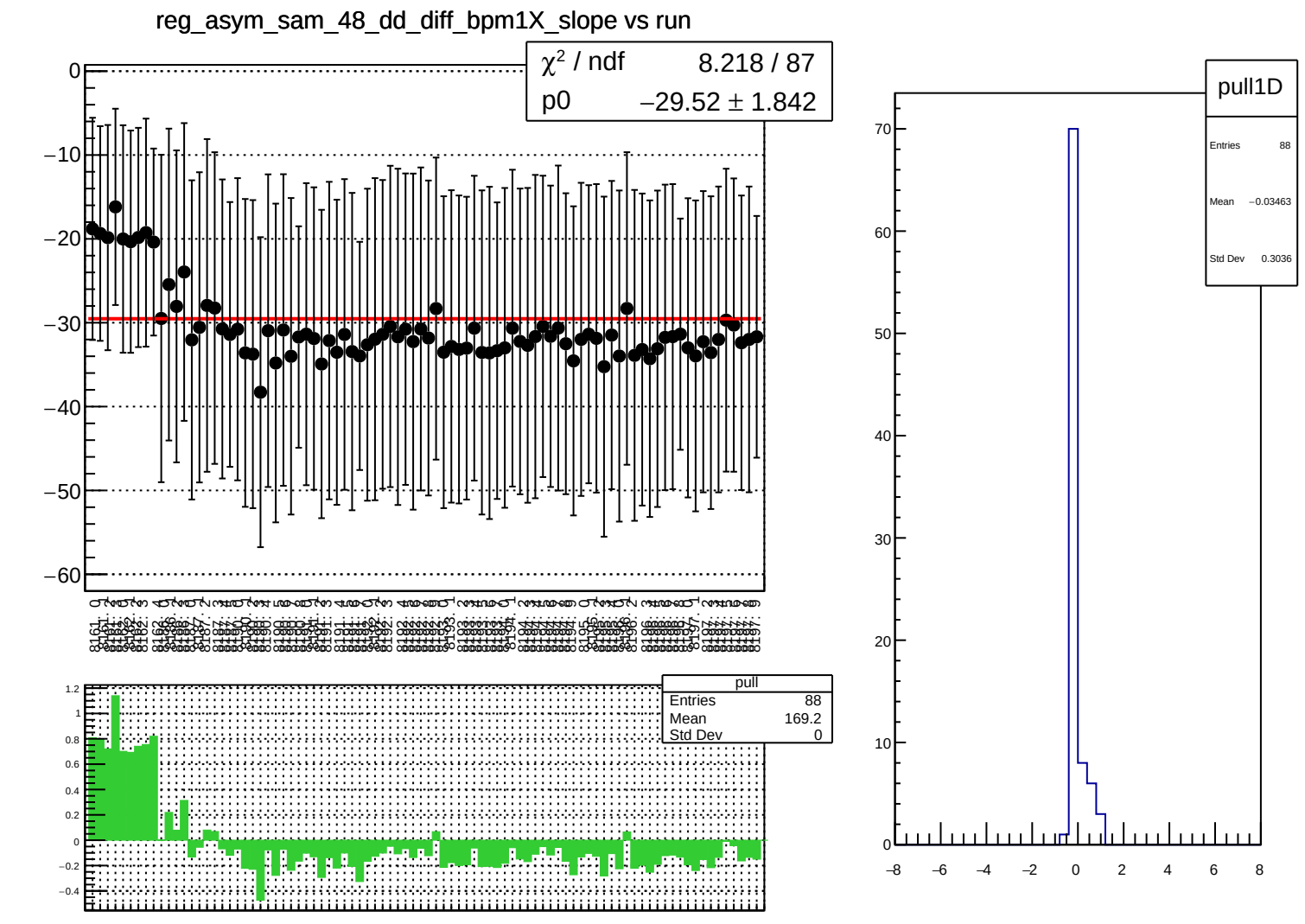

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.561 / 87
p0 −98.4 ± 2.206
pull
Entries 88
Mean 155
Std Dev 0

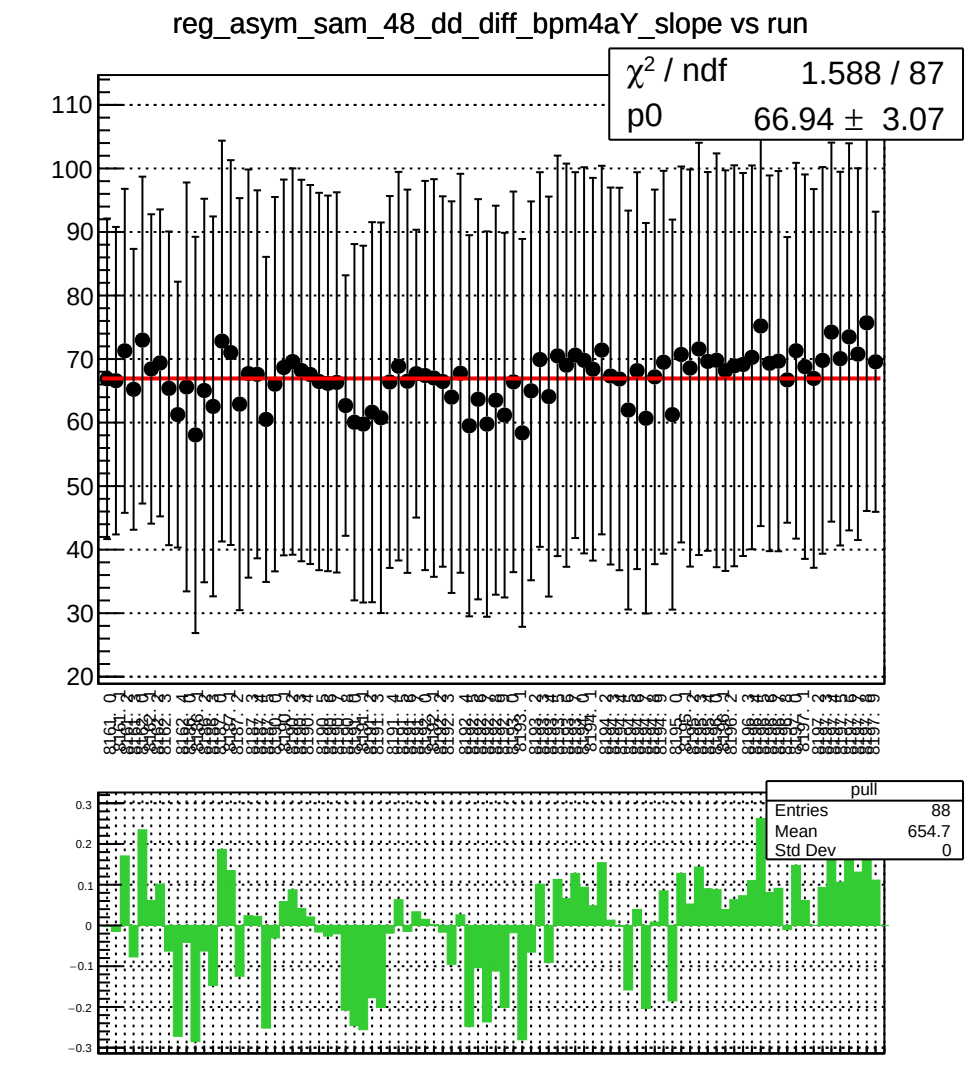

pull1D
Entries 88
Mean 0.0342
Std Dev 0.31

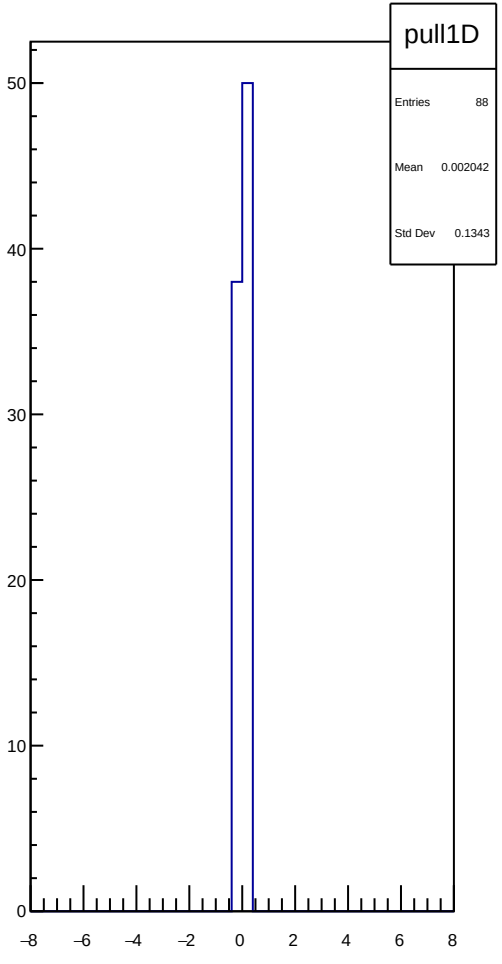

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.356 / 87
p0 68.29 ± 3.958
pull
Entries 88
Mean 267.4
Std Dev 0

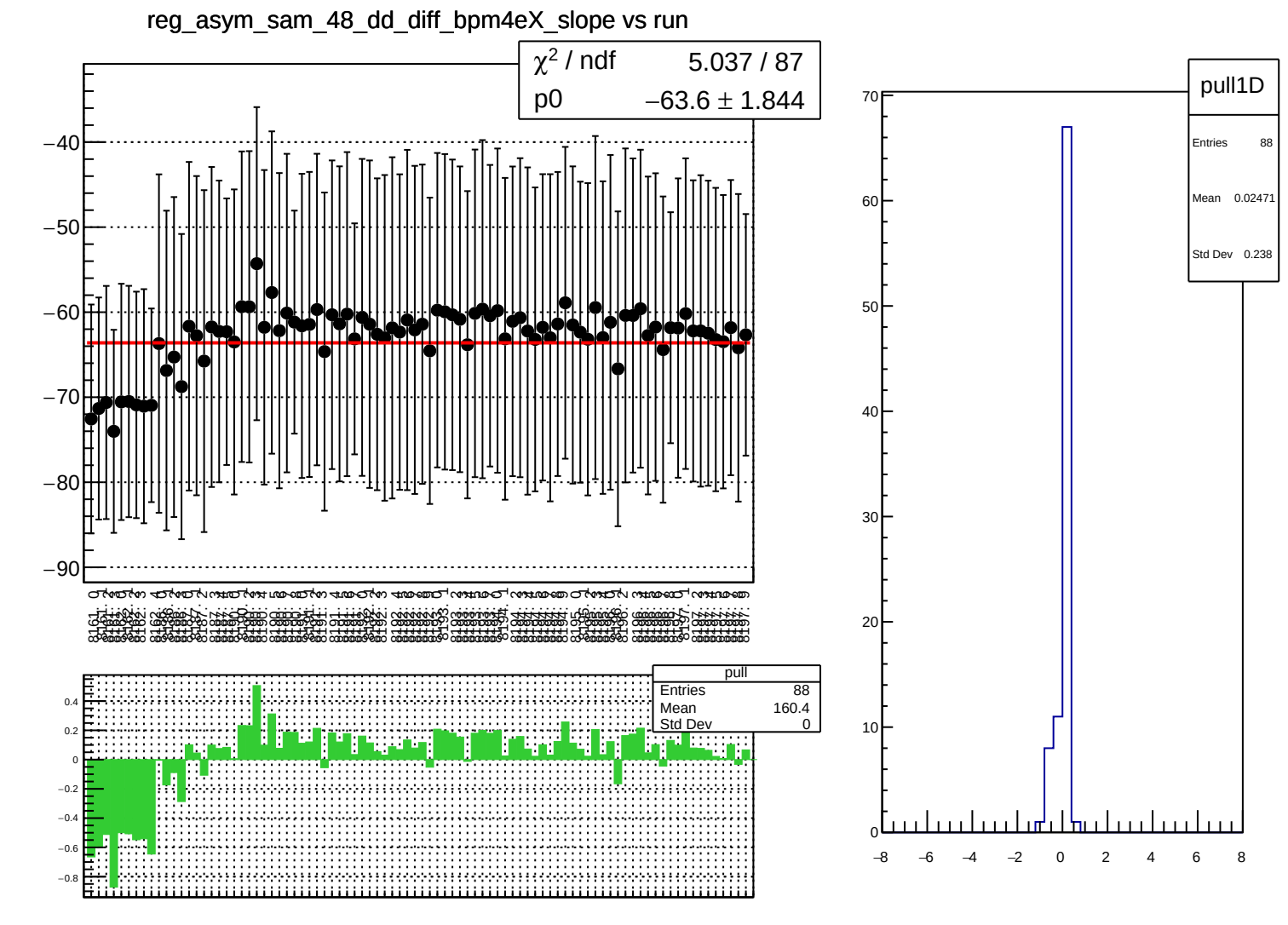

pull1D
Entries 88
Mean −0.00675
Std Dev 0.124

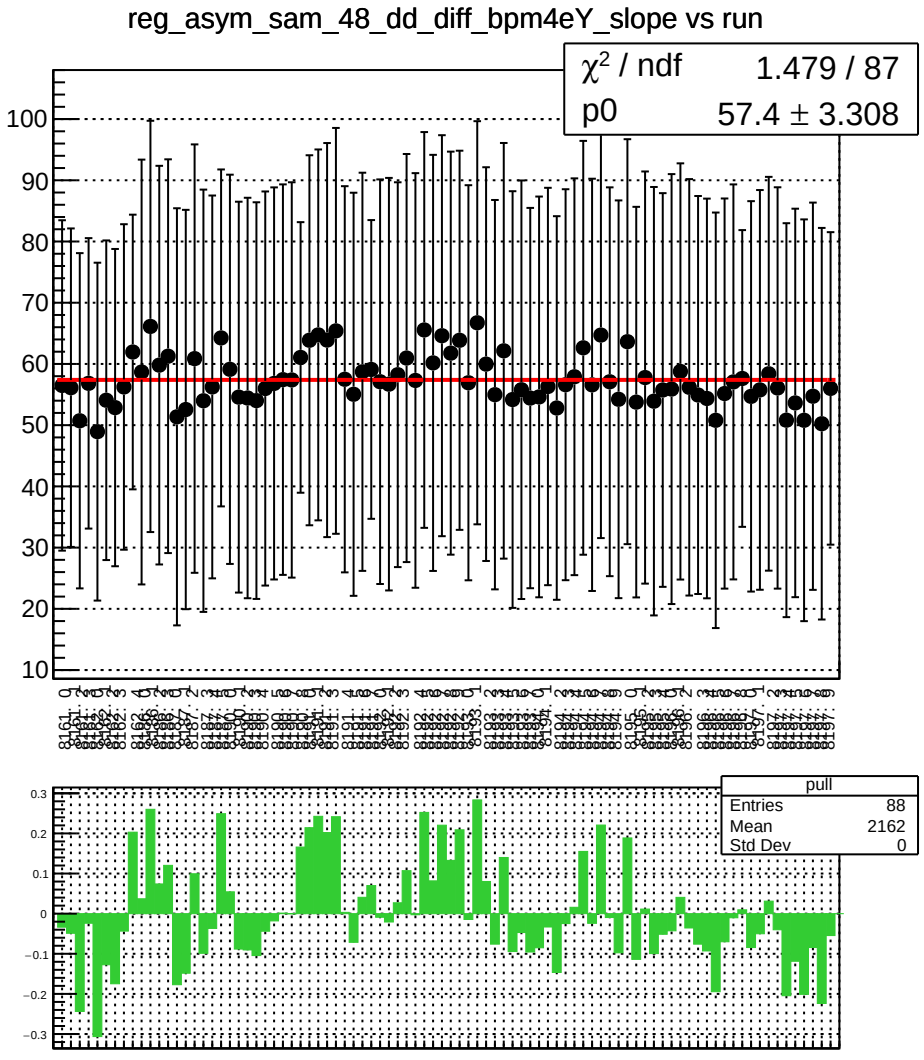

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 12.97 / 87
p0 −0.8933 ± 0.179
pull
Entries 88
Mean 442.3
Std Dev 0
pull1D
Entries 88
Mean −0.01554
Std Dev 0.3836

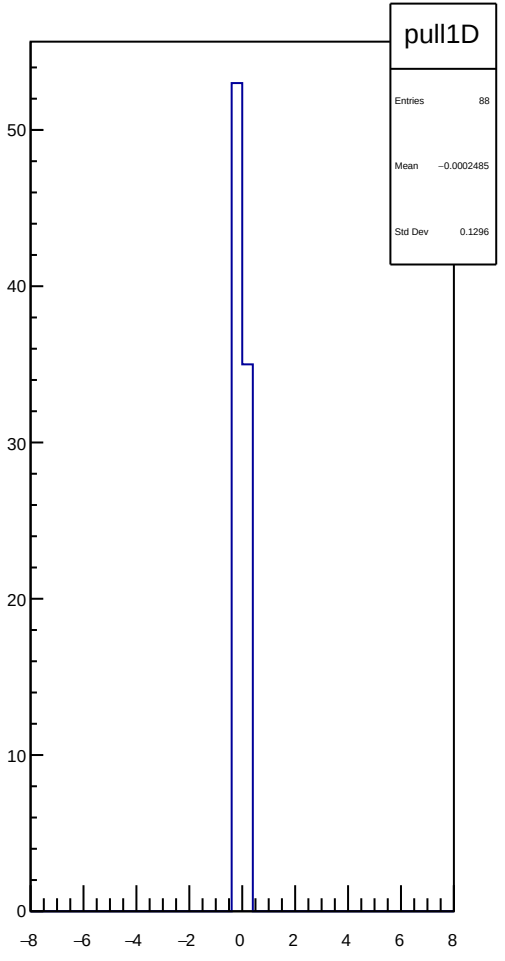

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 8.218 / 87
p0 −29.52 ± 1.842
pull
Entries 88
Mean 169.2
Std Dev 0
pull1D
Entries 88
Mean −0.03463
Std Dev 0.3036

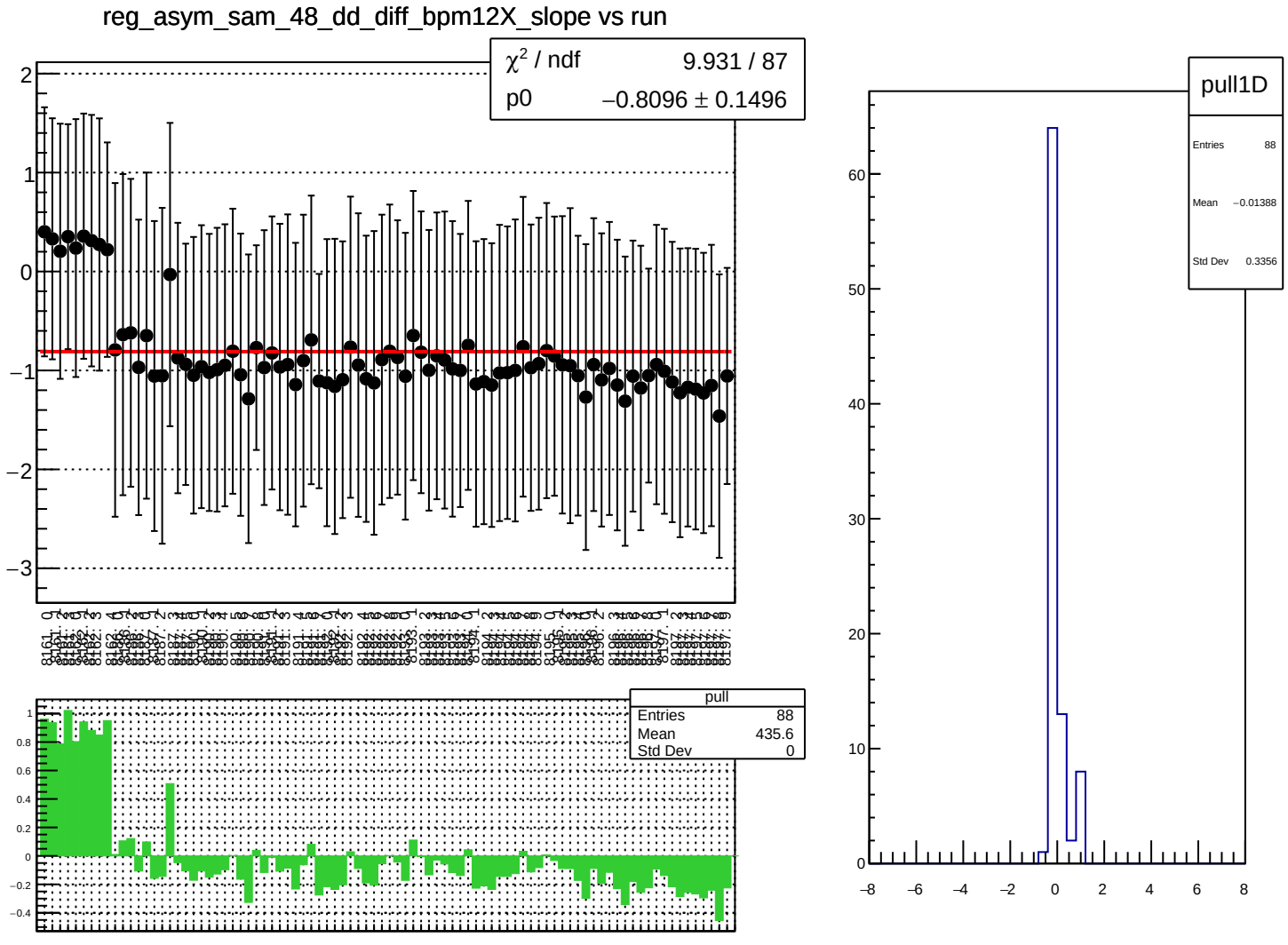

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.588 / 87
p0 66.94 ± 3.07
pull
Entries 88
Mean 654.7
Std Dev 0

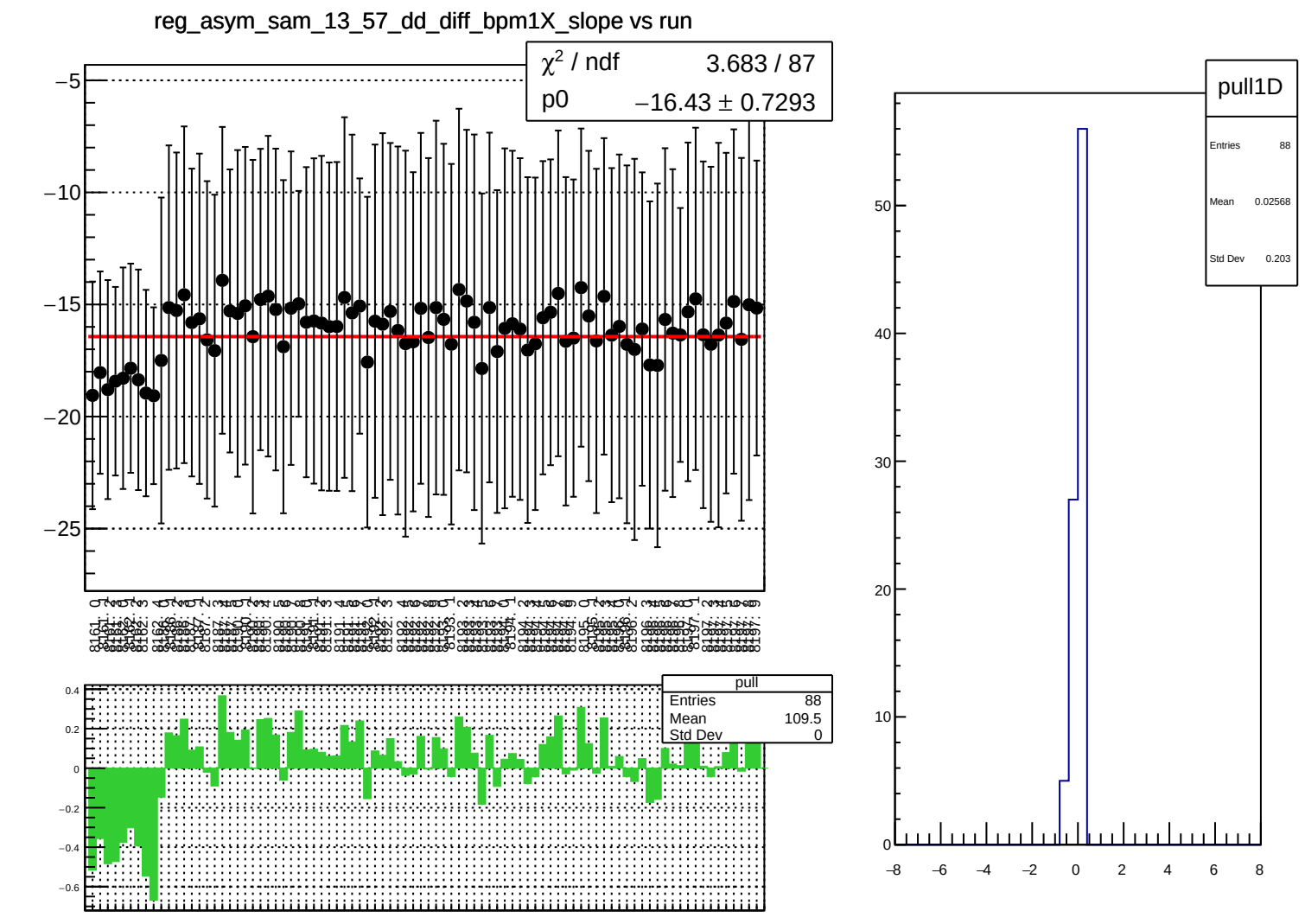

pull1D
Entries 88
Mean 0.002042
Std Dev 0.1343

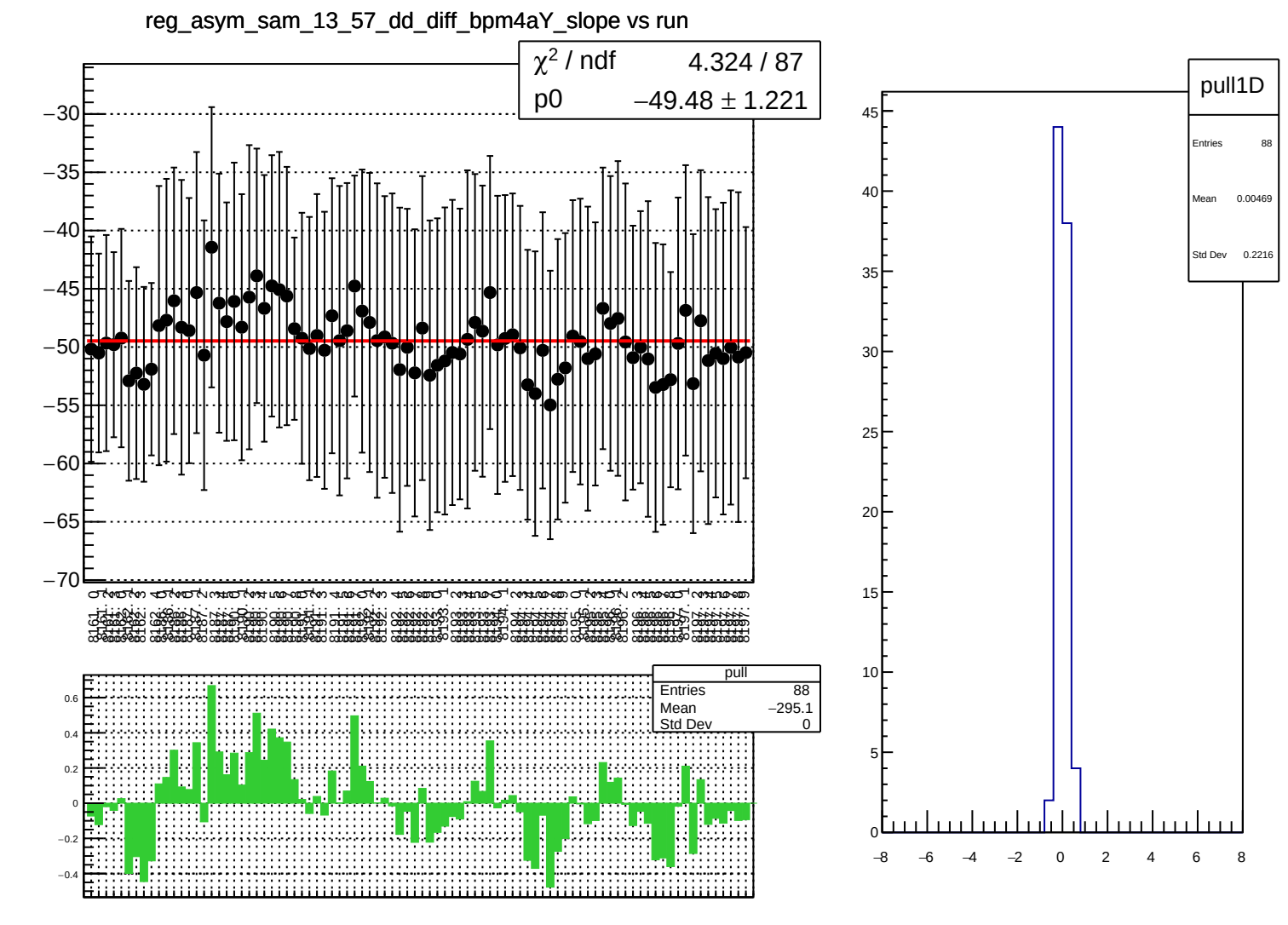

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.037 / 87
p0 −63.6 ± 1.844
pull
Entries 88
Mean 160.4
Std Dev 0
pull1D
Entries 88
Mean 0.02471
Std Dev 0.238

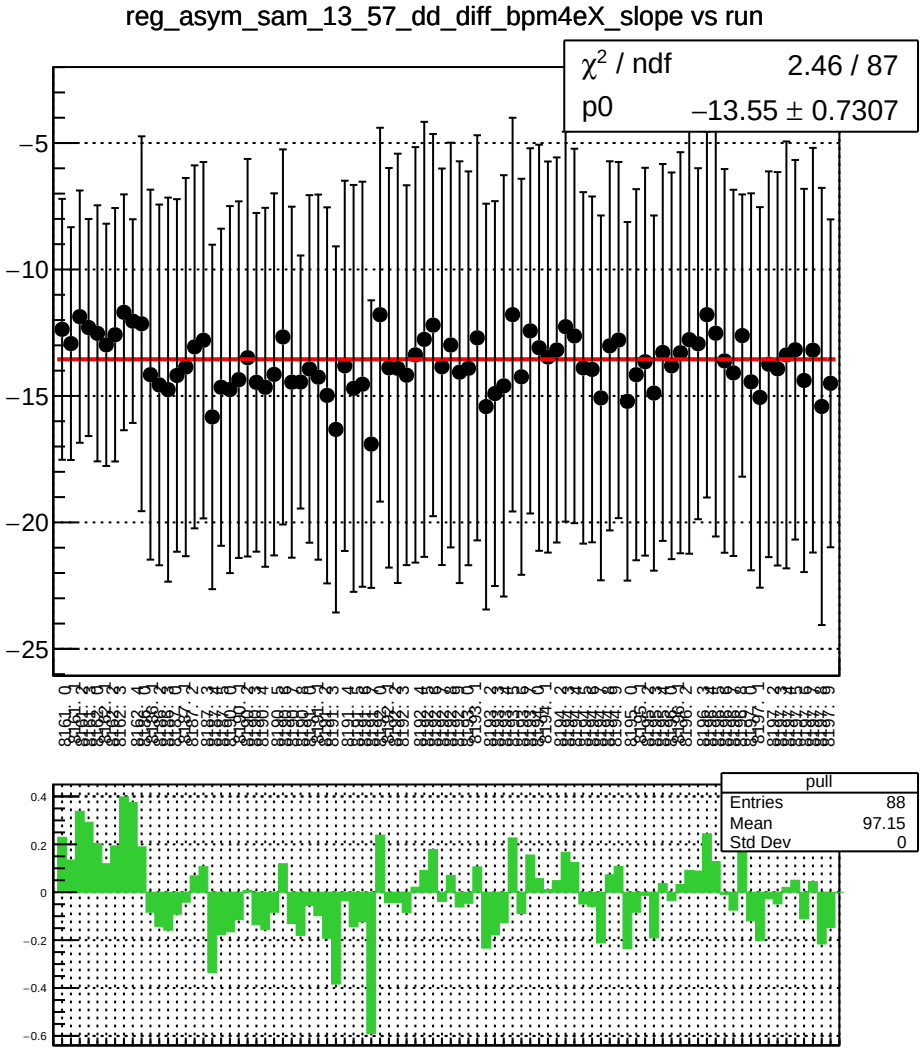

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.479 / 87
p0 57.4 ± 3.308
pull
Entries 88
Mean 2162
Std Dev 0

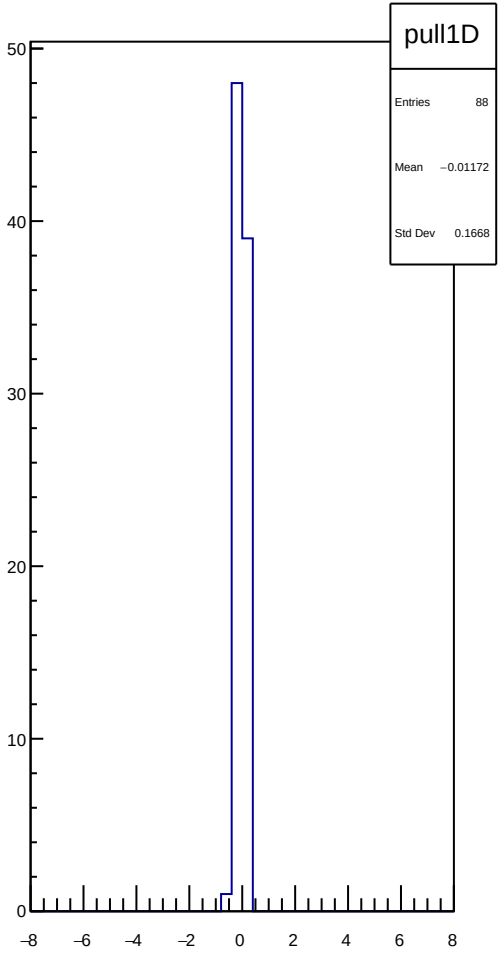

pull1D
Entries 88
Mean −0.0002485
Std Dev 0.1296

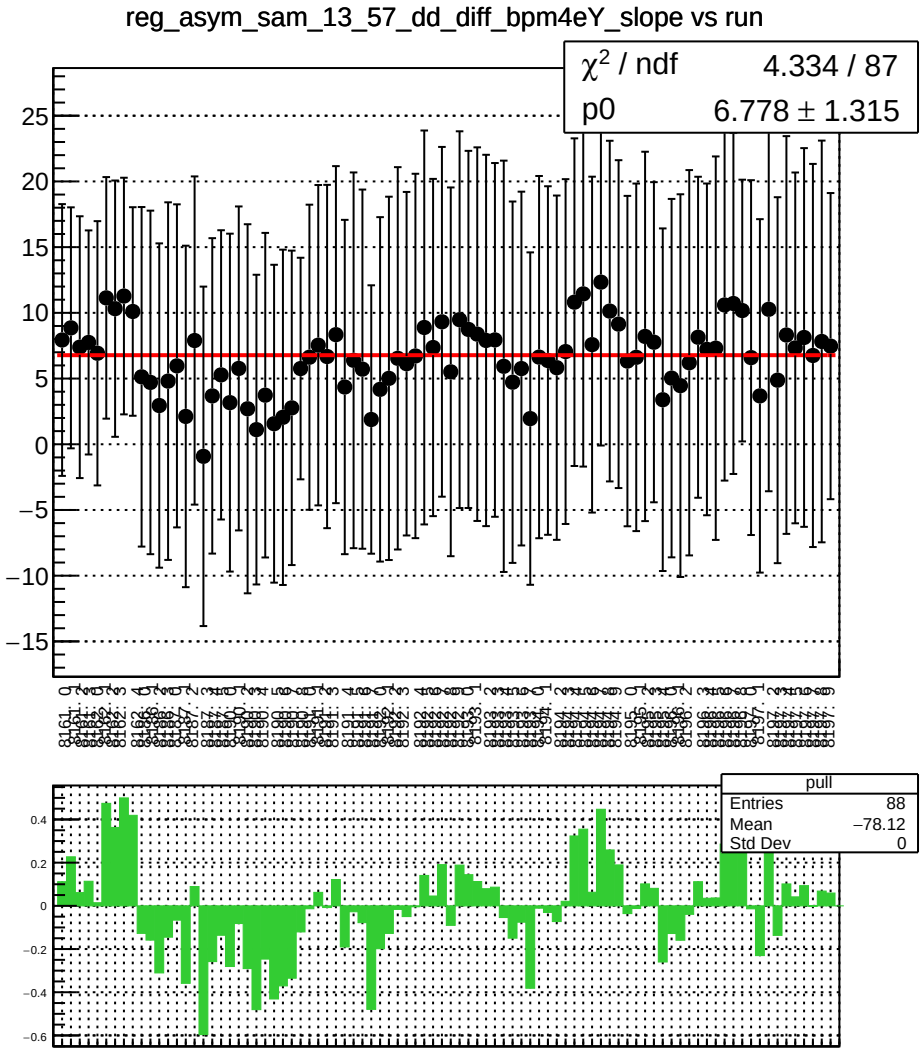

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.931 / 87
p0 −0.8096 ± 0.1496
pull
Entries 88
Mean 435.6
Std Dev 0
pull1D
Entries 88
Mean −0.01388
Std Dev 0.3356

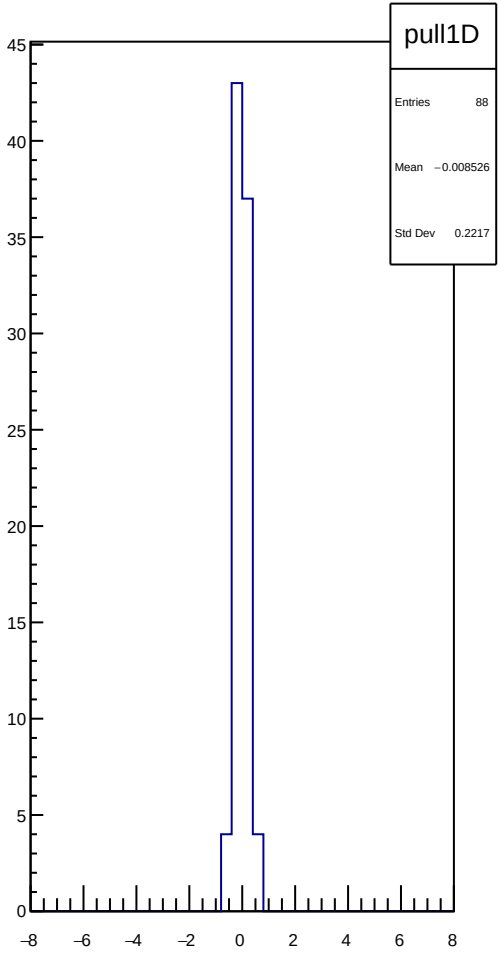

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 3.683 / 87
p0 −16.43 ± 0.7293
−5
−10
−15
−20
−25
pull
Entries 88
Mean 109.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.02568
Std Dev 0.203
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

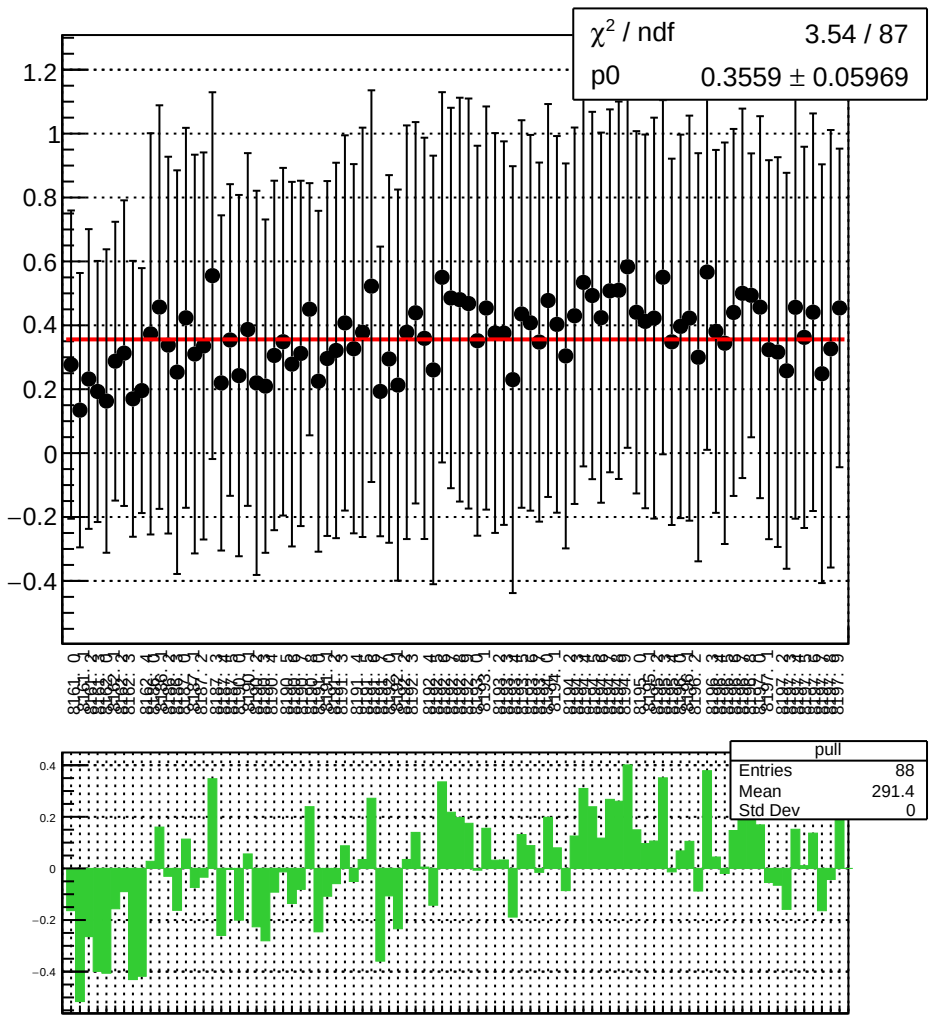

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.324 / 87
p0 −49.48 ± 1.221
pull
Entries 88
Mean −295.1
Std Dev 0
pull1D
Entries 88
Mean 0.00469
Std Dev 0.2216

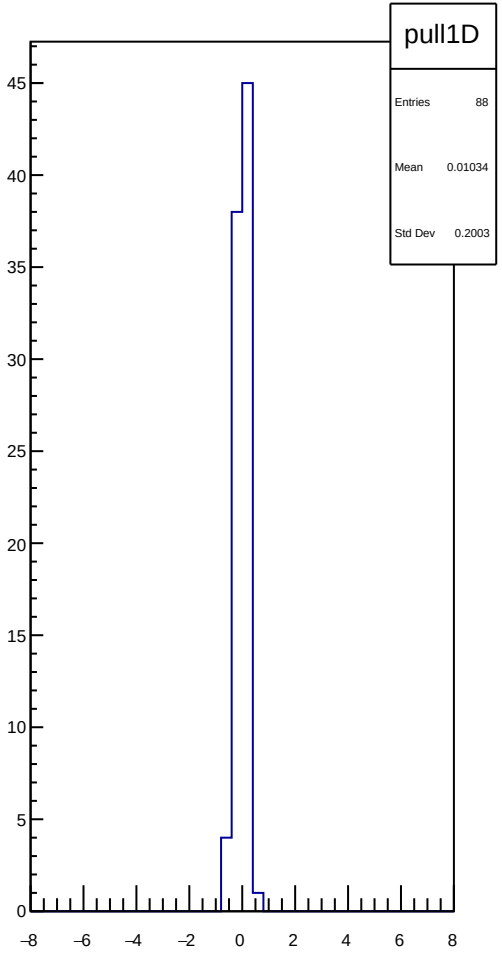

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.46 / 87
p0 −13.55 ± 0.7307
pull
Entries 88
Mean 97.15
Std Dev 0

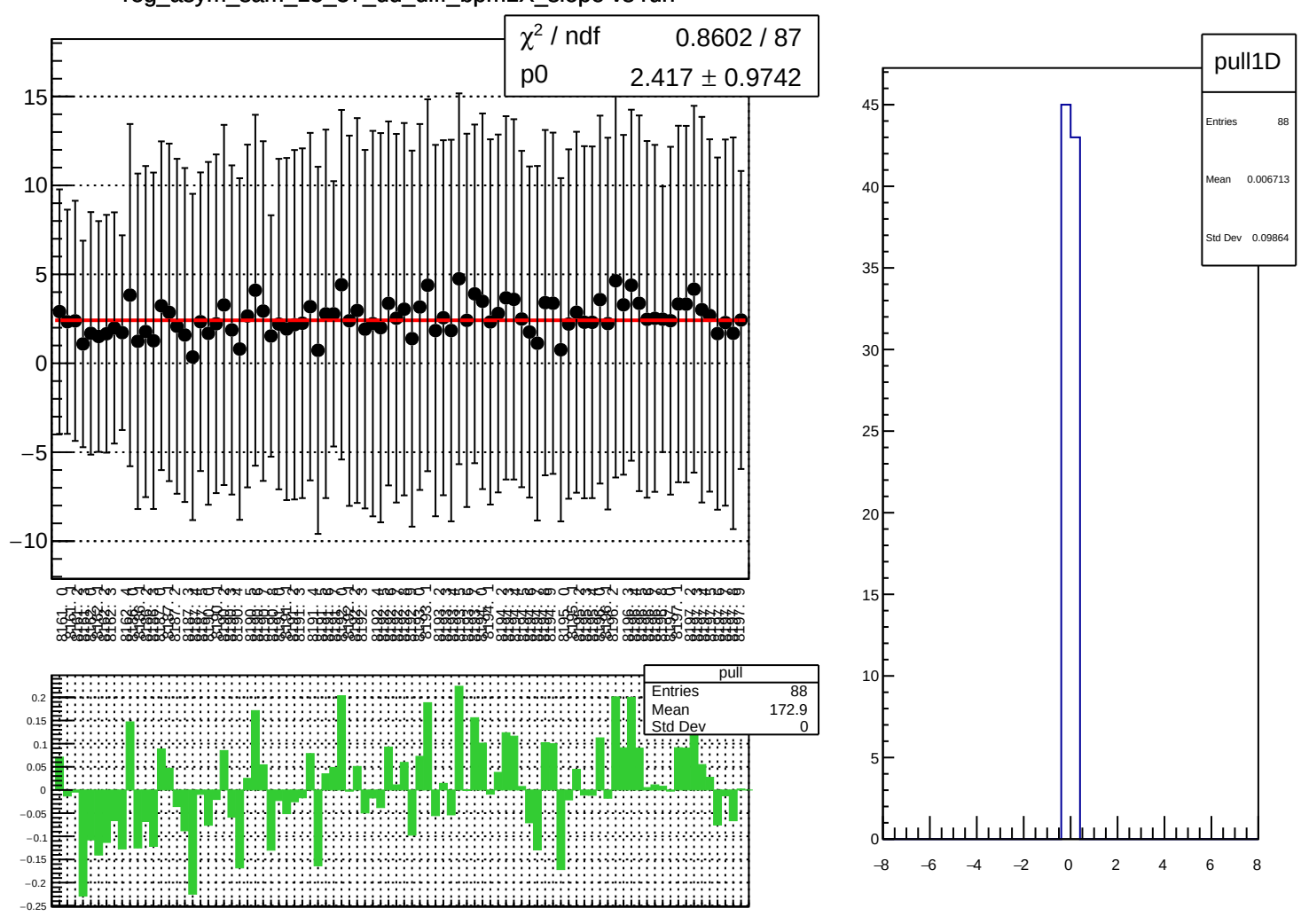

pull1D
Entries 88
Mean −0.01172
Std Dev 0.1668

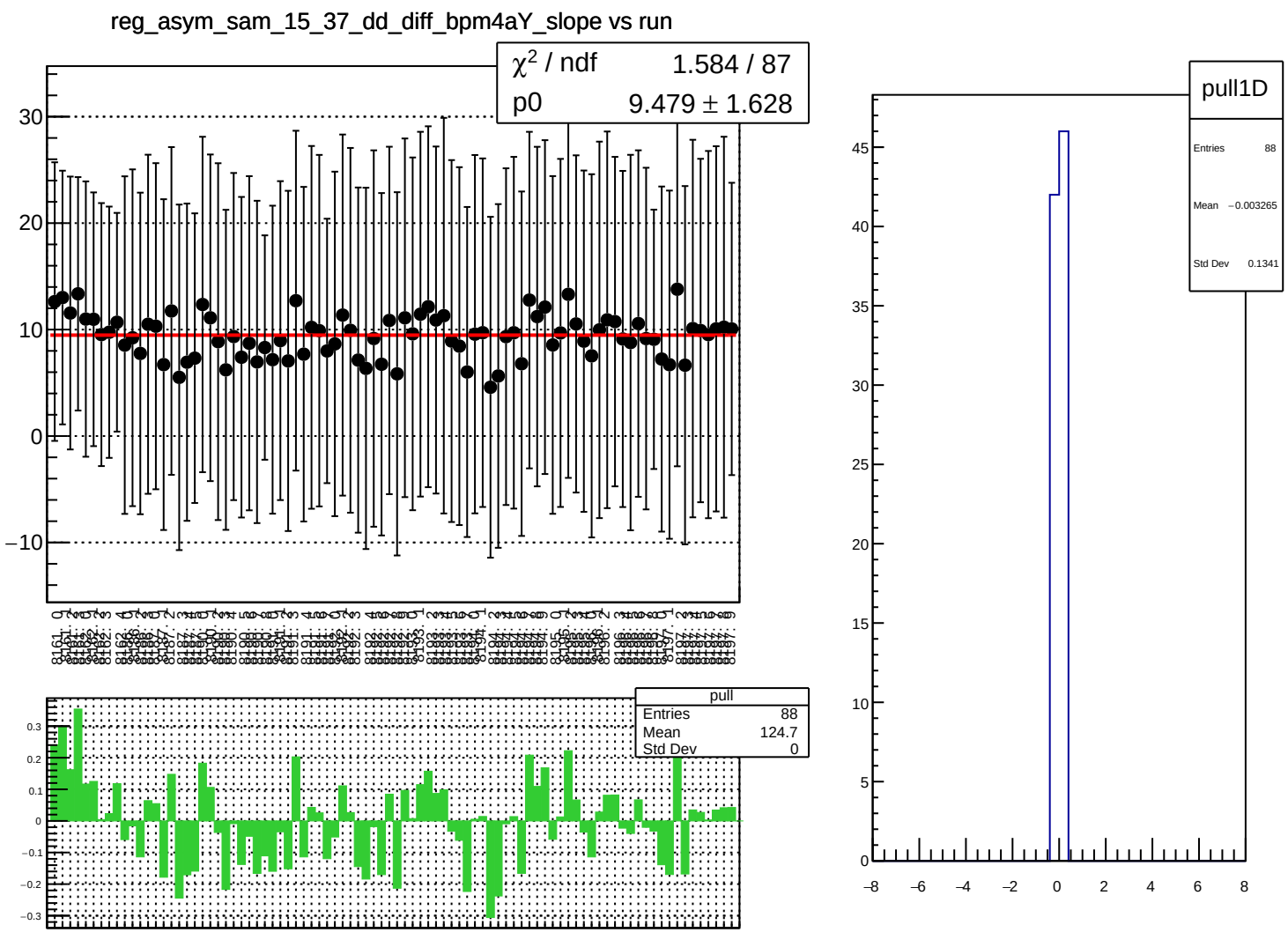

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.334 / 87
p0 6.778 ± 1.315
pull
Entries 88
Mean −78.12
Std Dev 0

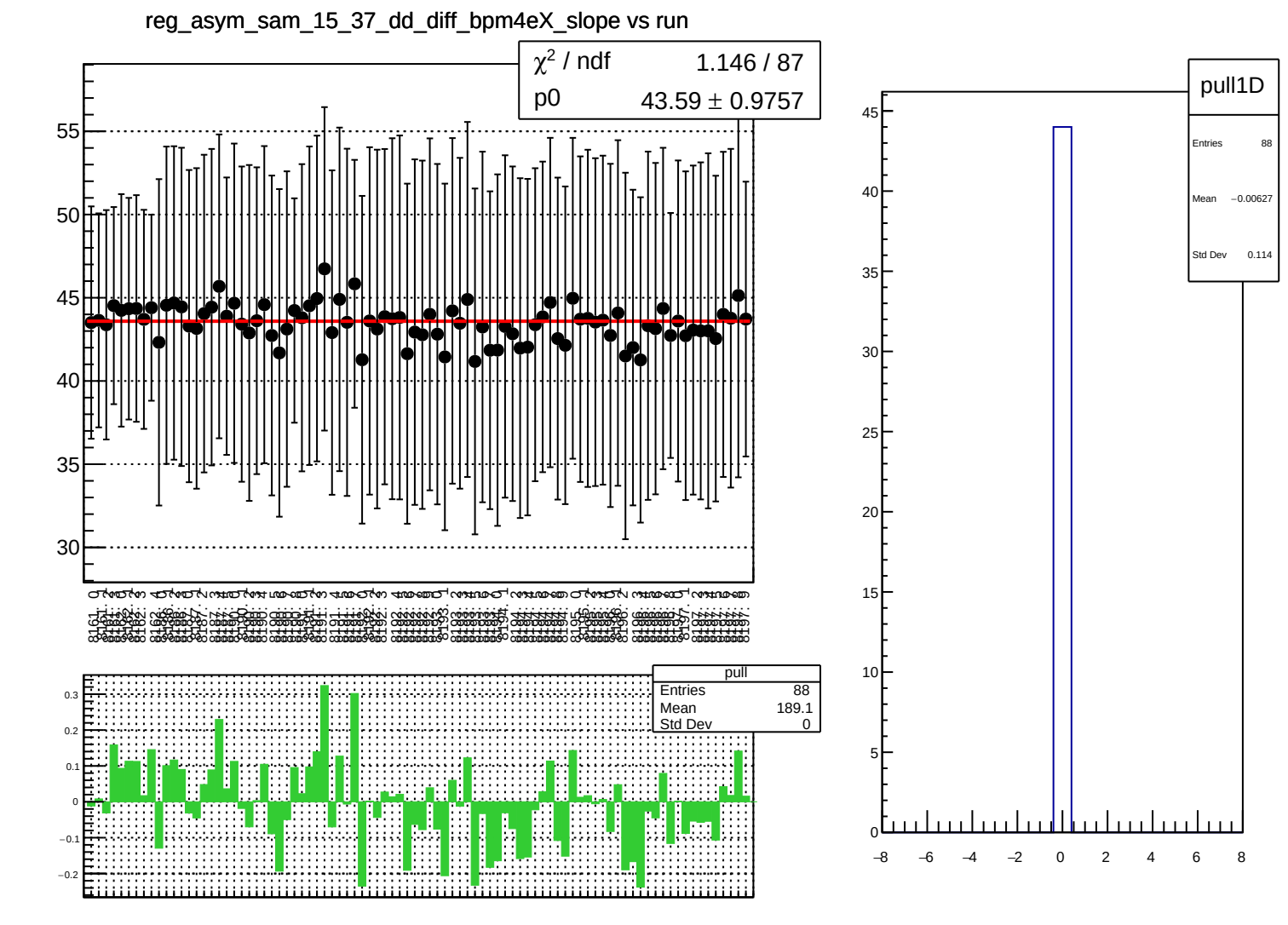

pull1D
Entries 88
Mean −0.008526
Std Dev 0.2217

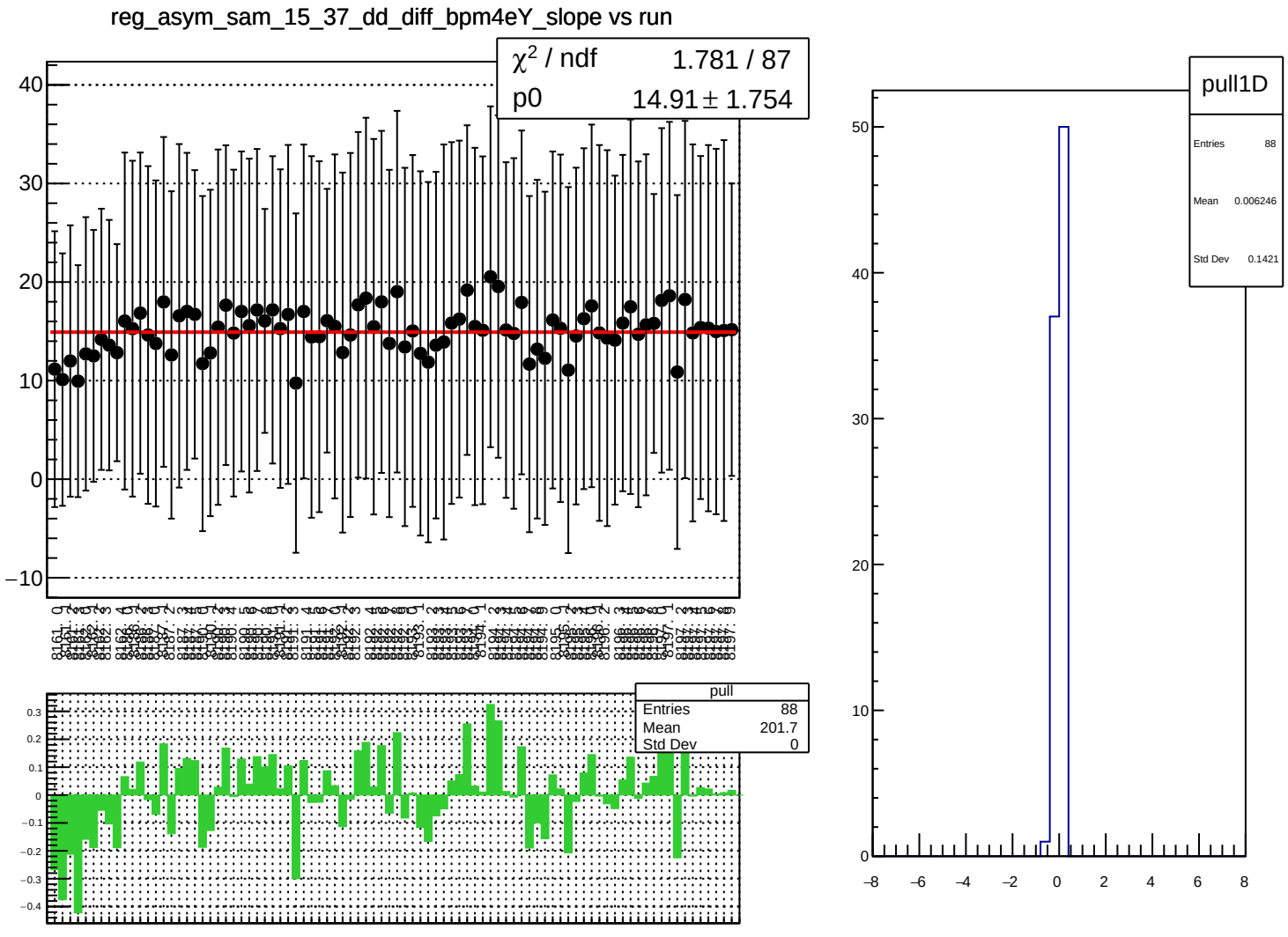

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 3.54 / 87
p0 0.3559 ± 0.05969
pull
Entries 88
Mean 291.4
Std Dev 0

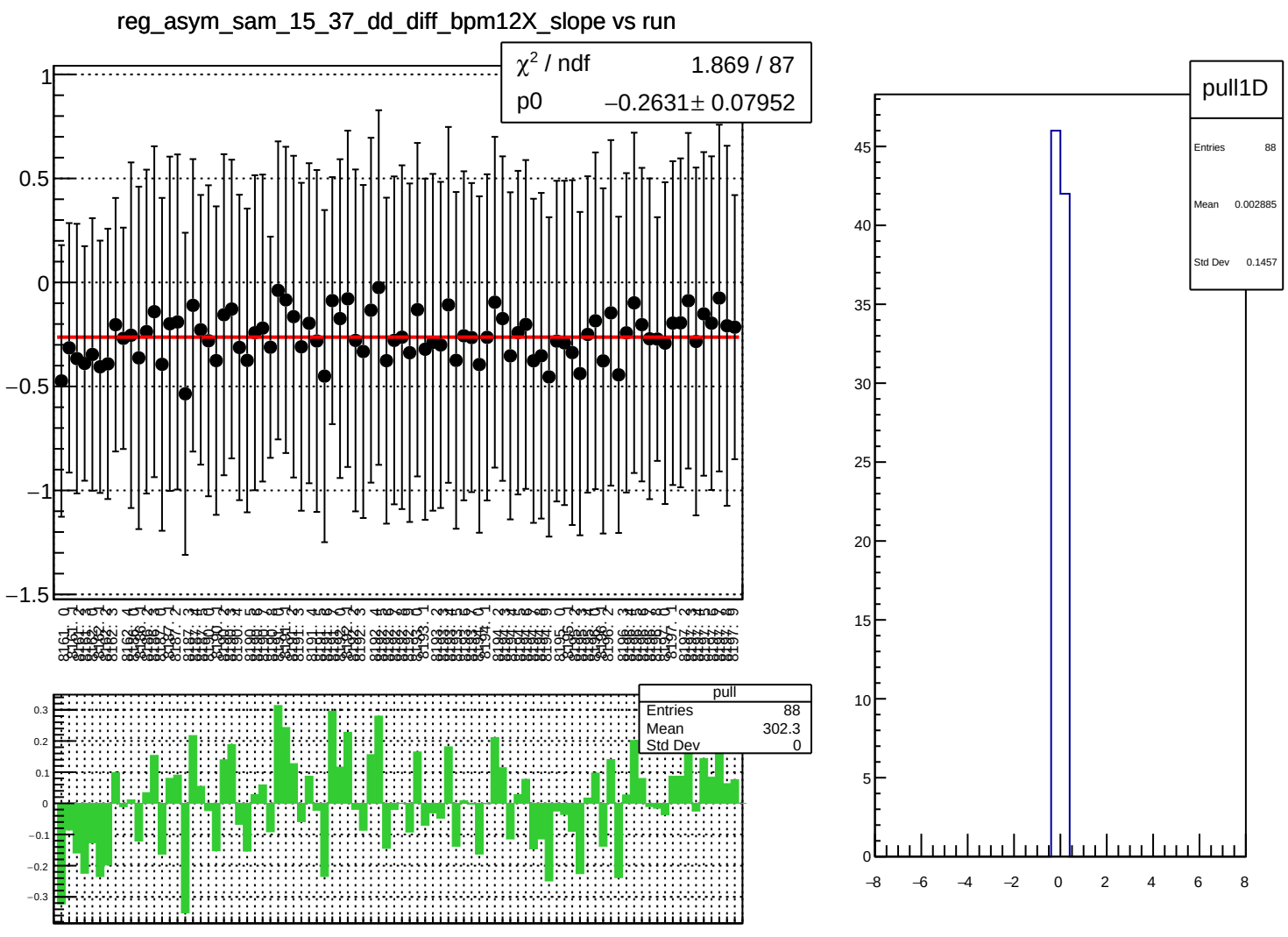

pull1D
Entries 88
Mean 0.01034
Std Dev 0.2003

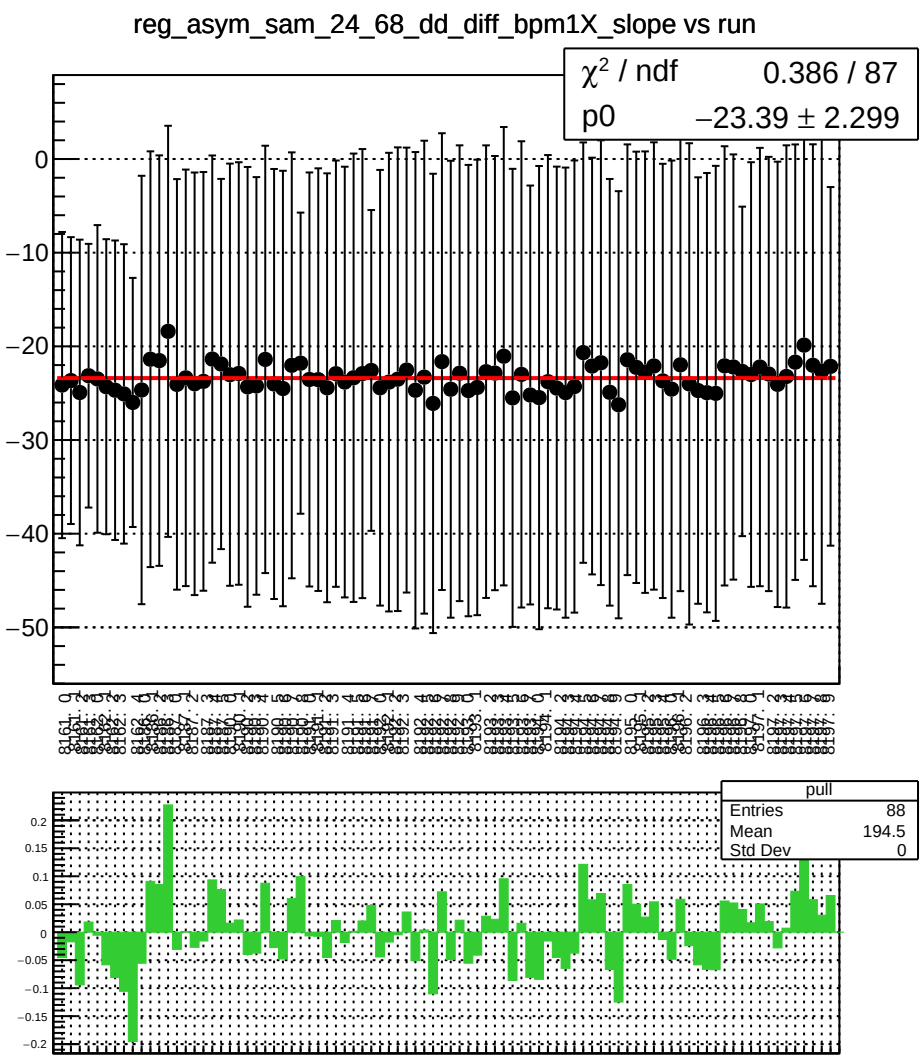

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8602 / 87
p0 2.417 ± 0.9742
pull
Entries 88
Mean 172.9
Std Dev 0
pull1D
Entries 88
Mean 0.006713
Std Dev 0.09864

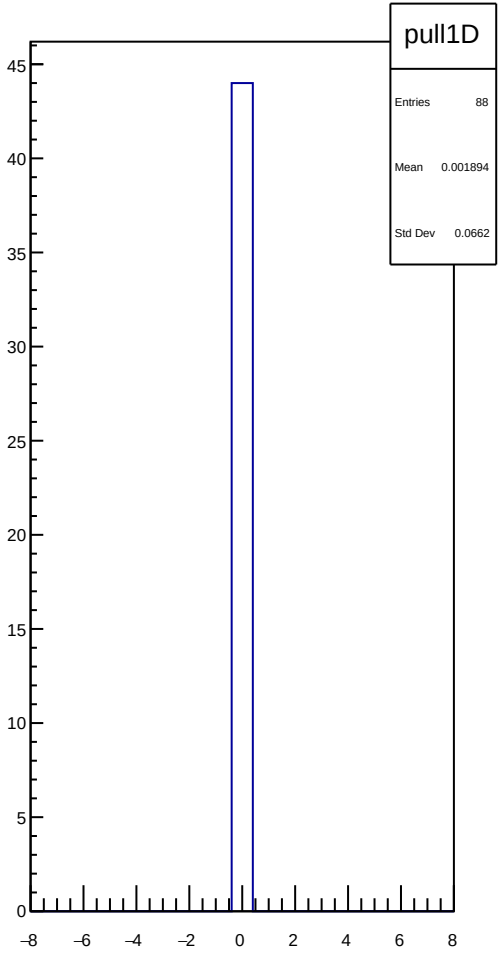

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.584 / 87
p0 9.479 ± 1.628
pull
Entries 88
Mean 124.7
Std Dev 0
pull1D
Entries 88
Mean −0.003265
Std Dev 0.1341

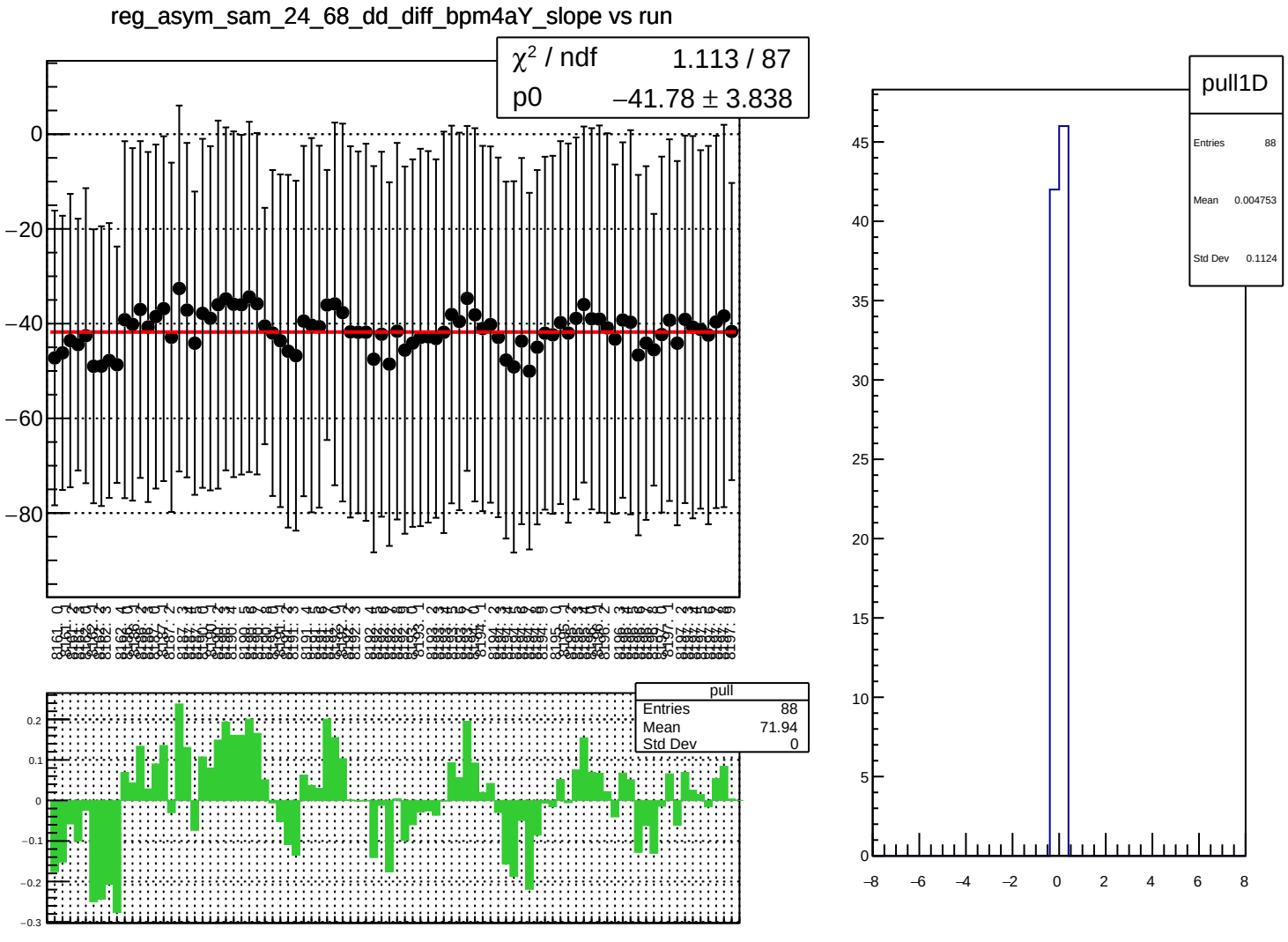

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.146 / 87
p0 43.59 ± 0.9757
pull
Entries 88
Mean 189.1
Std Dev 0
pull1D
Entries 88
Mean −0.00627
Std Dev 0.114

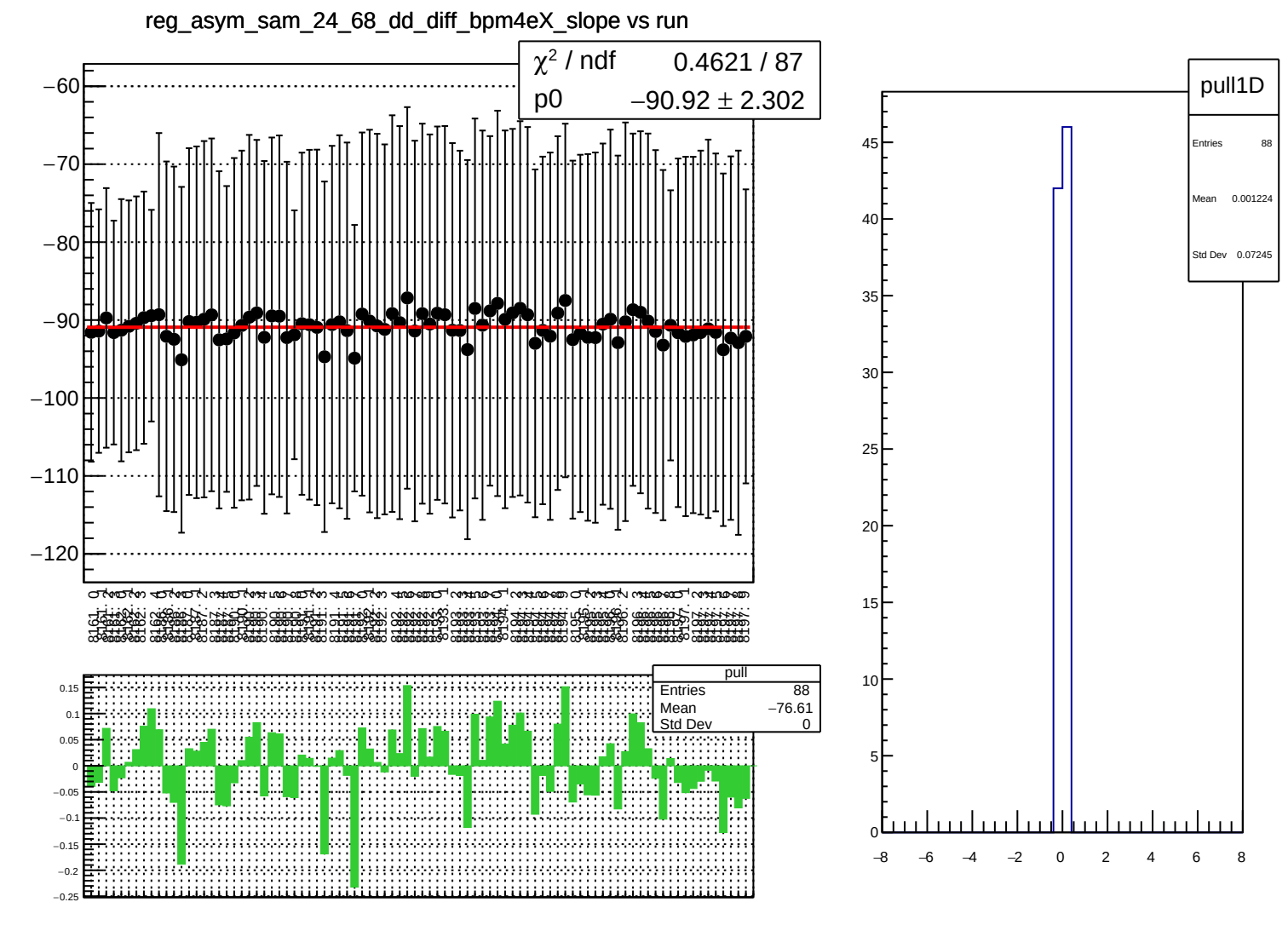

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.781 / 87
p0 14.91 ± 1.754
pull
Entries 88
Mean 201.7
Std Dev 0
pull1D
Entries 88
Mean 0.006246
Std Dev 0.1421

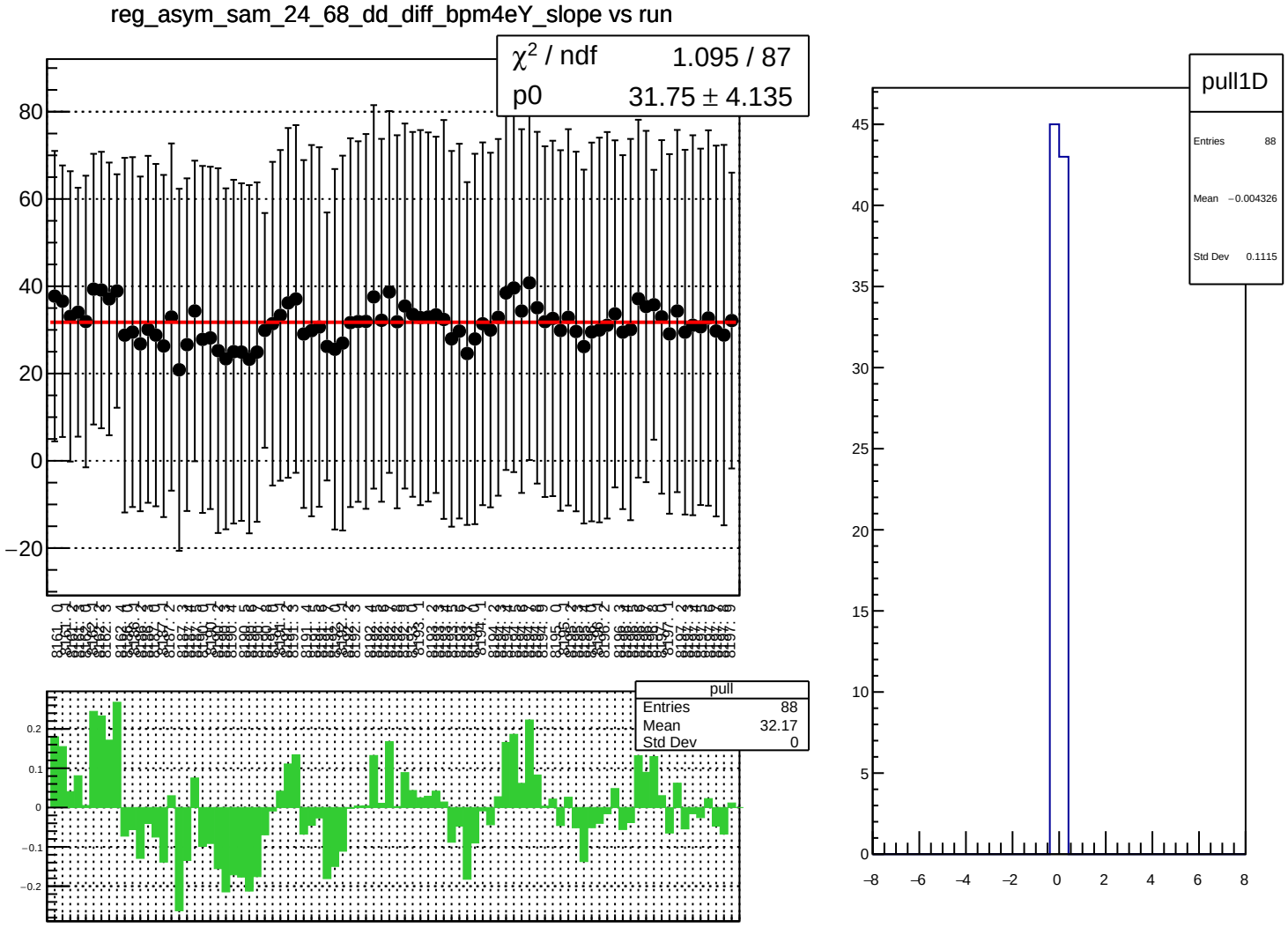

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.869 / 87
p0 −0.2631 ± 0.07952
pull
Entries 88
Mean 302.3
Std Dev 0
pull1D
Entries 88
Mean 0.002885
Std Dev 0.1457


reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.386 / 87
p0 −23.39 ± 2.299
pull
Entries 88
Mean 194.5
Std Dev 0

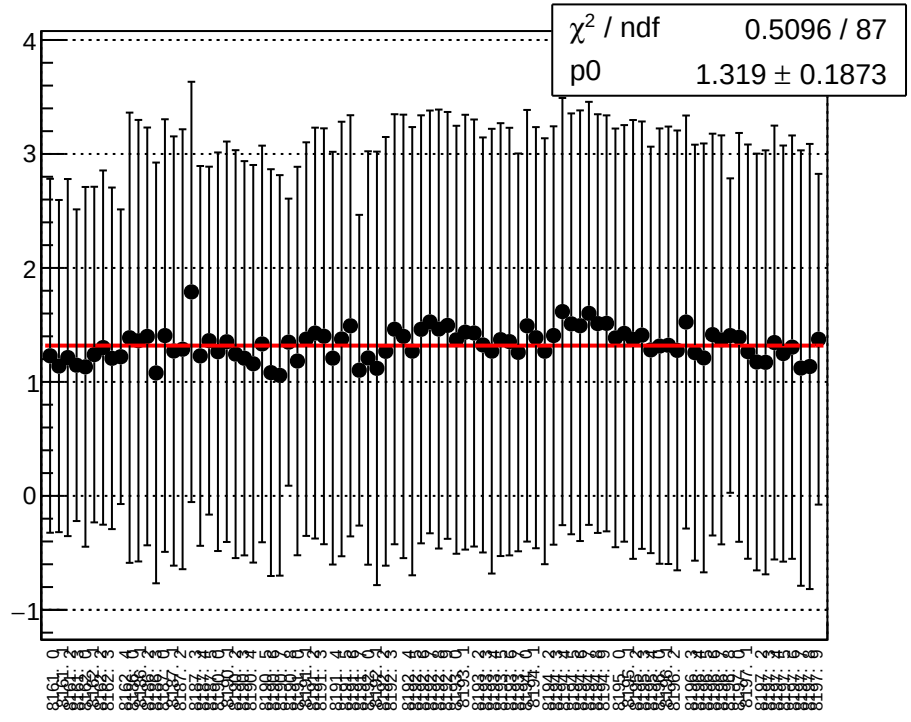

pull1D
Entries 88
Mean 0.001894
Std Dev 0.0662

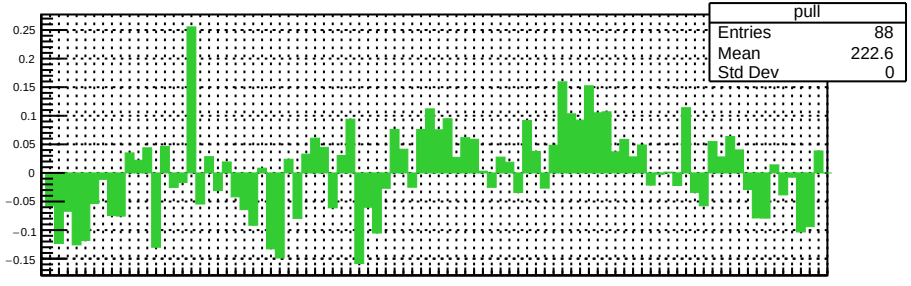

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.113 / 87
p0 −41.78 ± 3.838
pull
Entries 88
Mean 71.94
Std Dev 0
pull1D
Entries 88
Mean 0.004753
Std Dev 0.1124

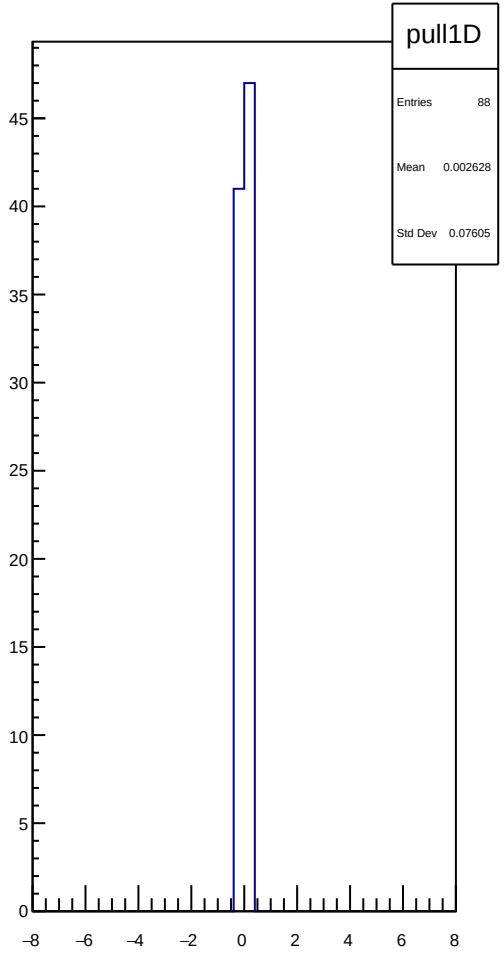

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.4621 / 87
p0 −90.92 ± 2.302
pull
Entries 88
Mean −76.61
Std Dev 0
pull1D
Entries 88
Mean 0.001224
Std Dev 0.07245

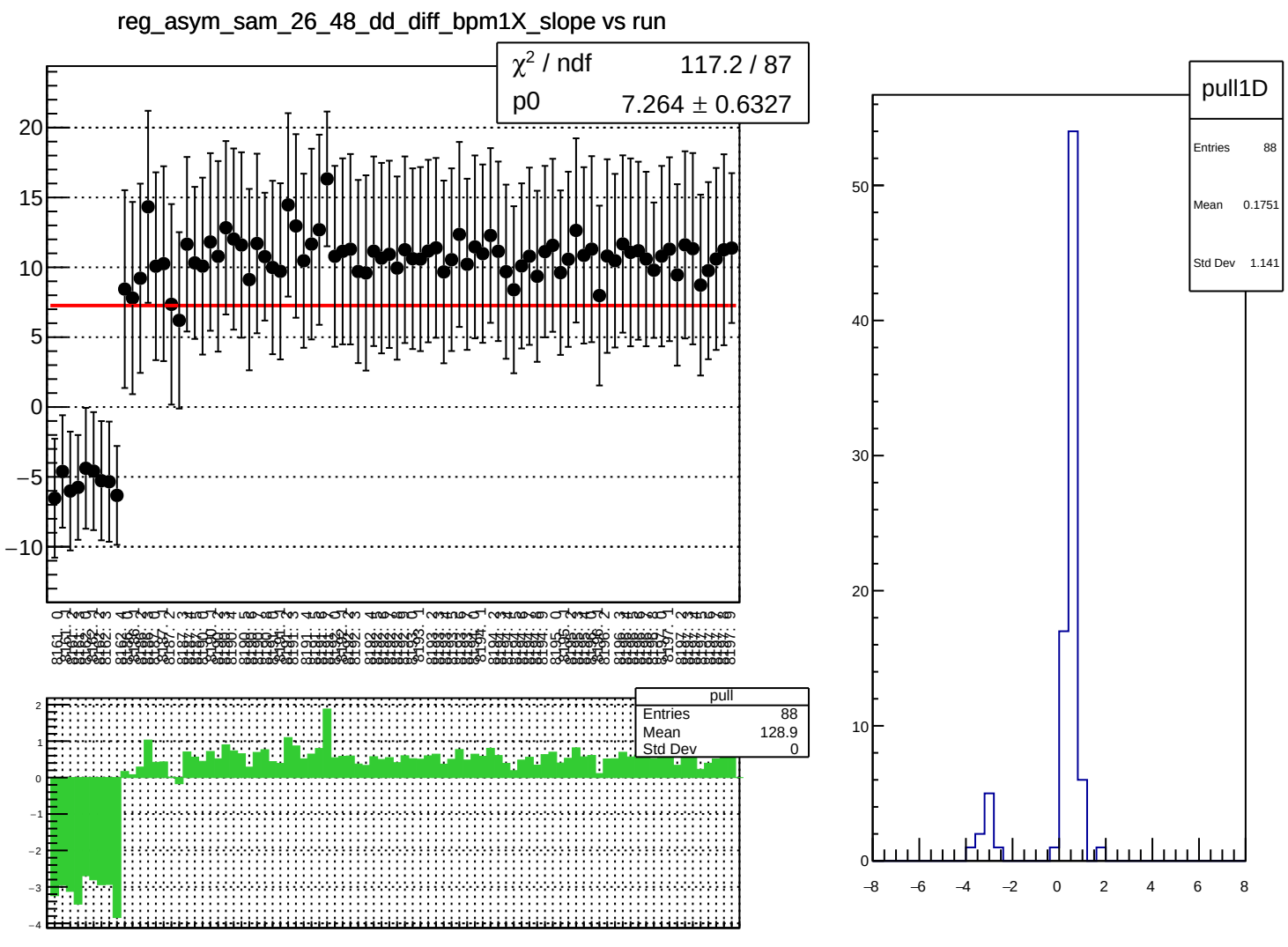

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.095 / 87
p0 31.75 ± 4.135
pull
Entries 88
Mean 32.17
Std Dev 0
pull1D
Entries 88
Mean −0.004326
Std Dev 0.1115

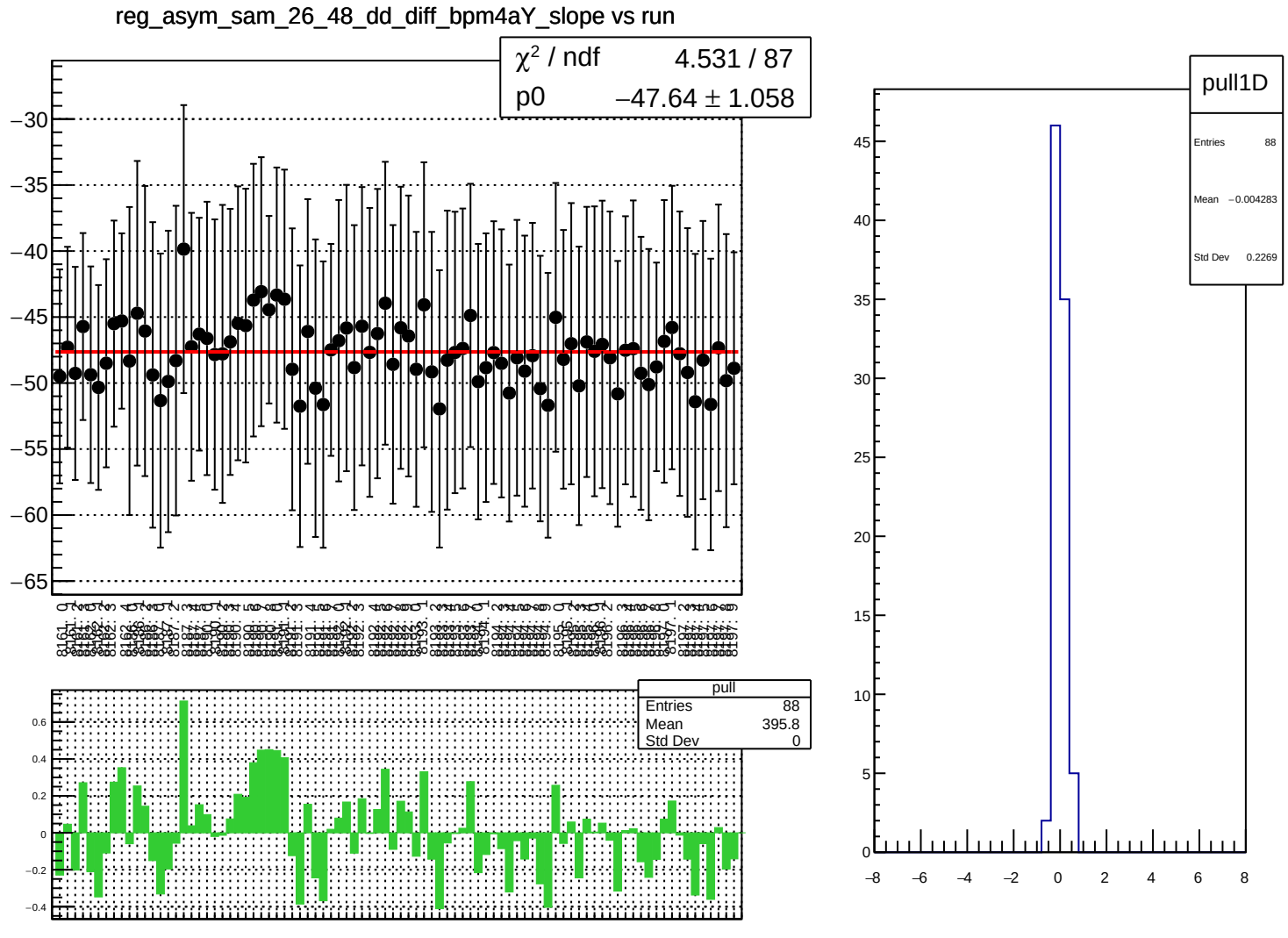
reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run

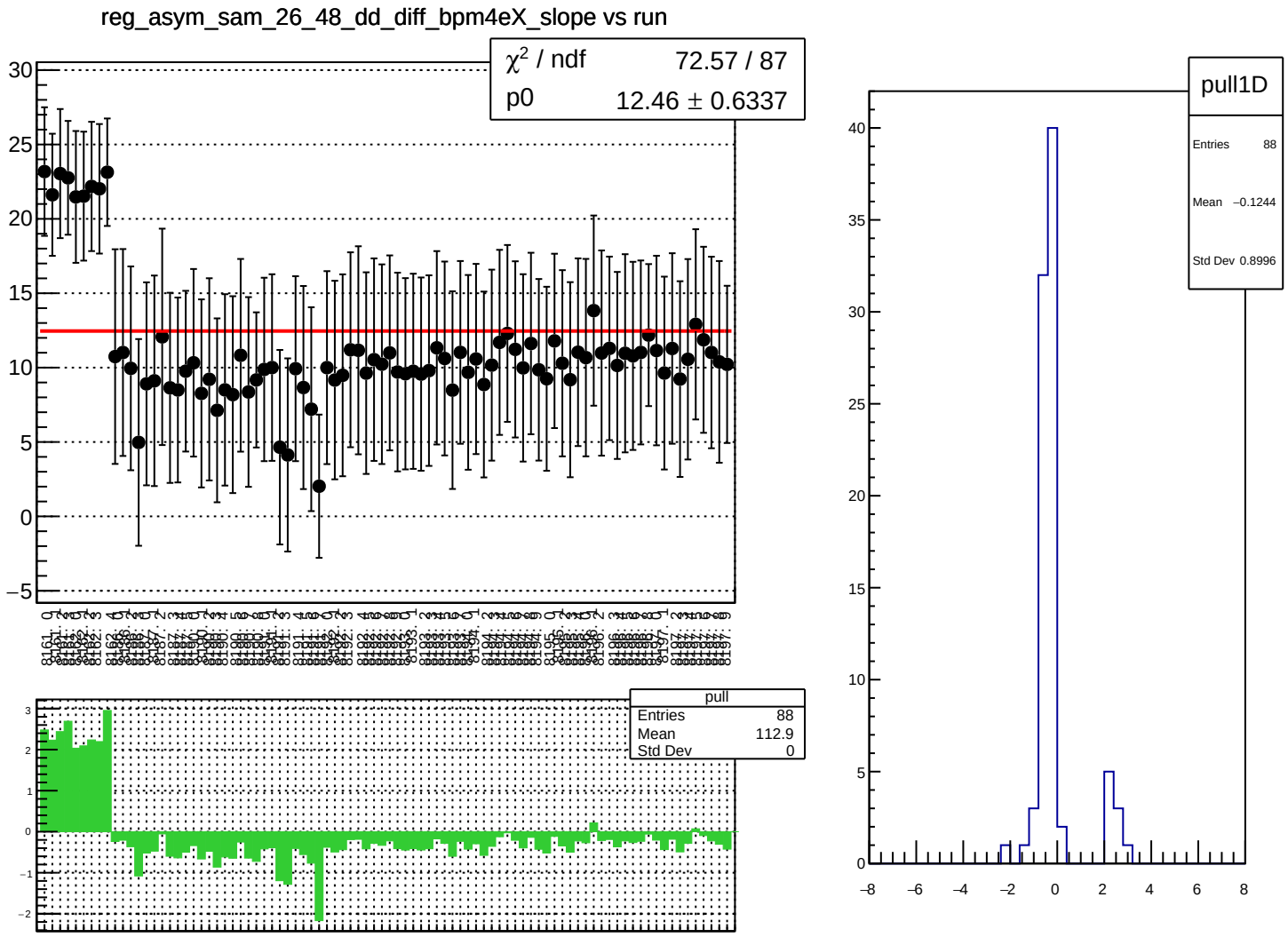


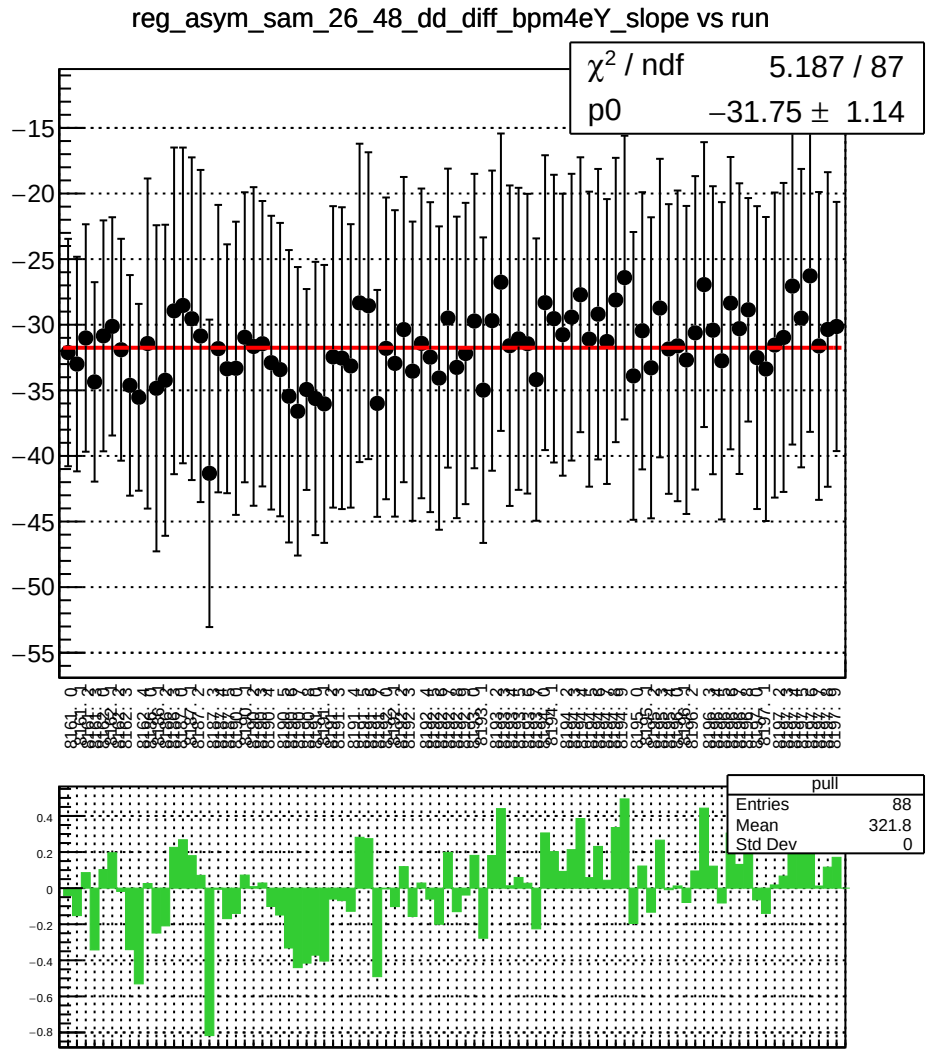


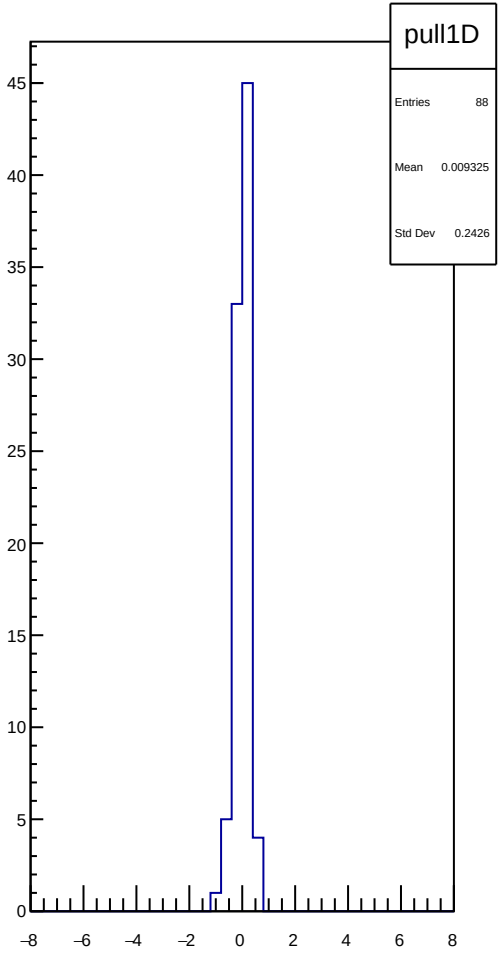


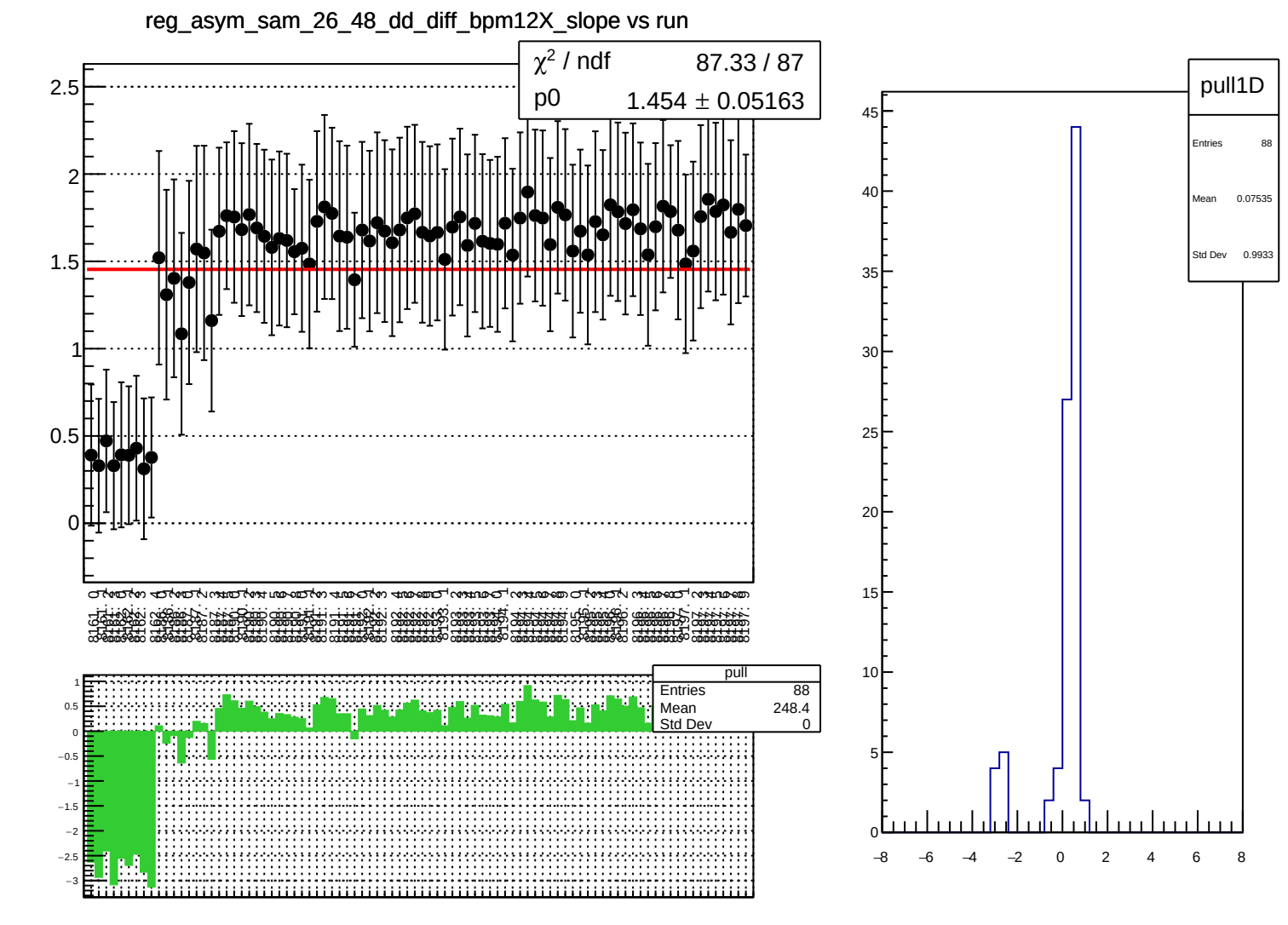

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 117.2 / 87
p0 7.264 ± 0.6327
pull
Entries 88
Mean 128.9
Std Dev 0
pull1D
Entries 88
Mean 0.1751
Std Dev 1.141

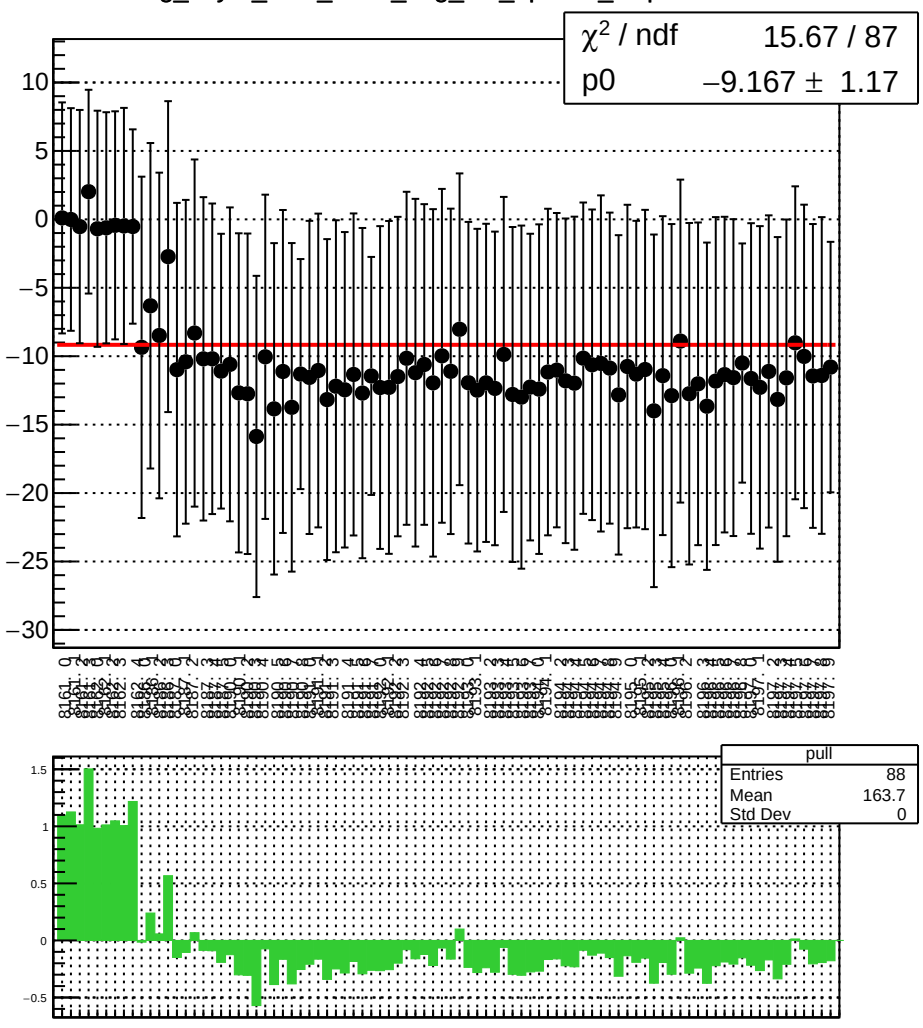

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.531 / 87
p0 −47.64 ± 1.058
pull
Entries 88
Mean 395.8
Std Dev 0
pull1D
Entries 88
Mean −0.004283
Std Dev 0.2269

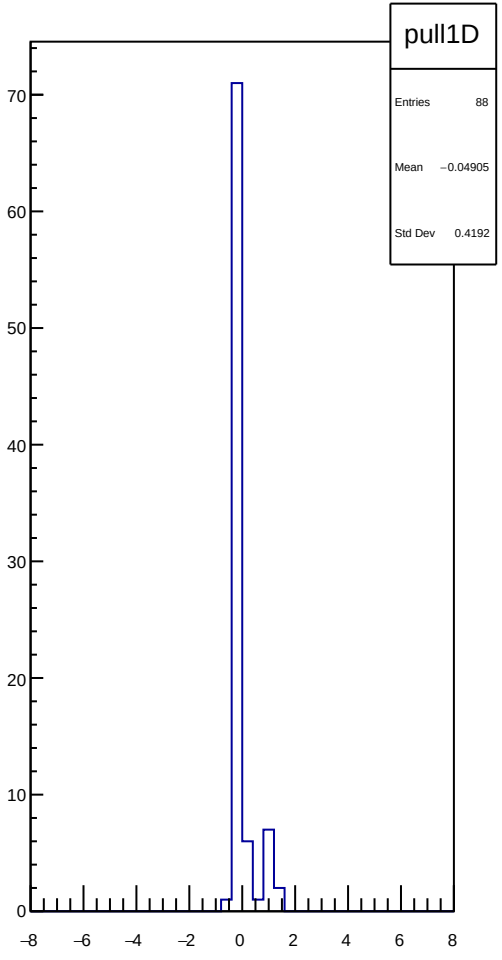

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.57 / 87
p0 12.46 ± 0.6337
pull
Entries 88
Mean 112.9
Std Dev 0
pull1D
Entries 88
Mean −0.1244
Std Dev 0.8996

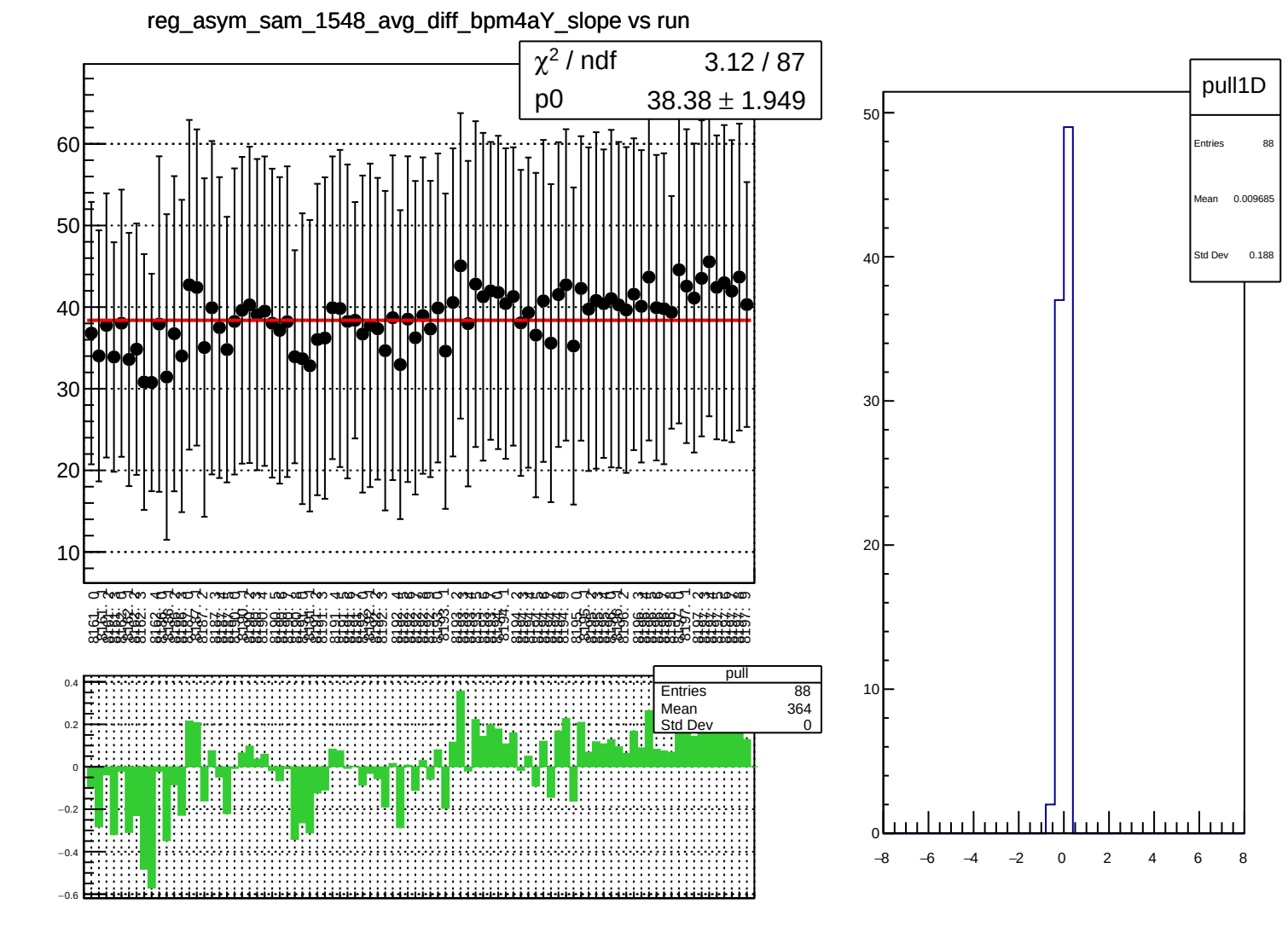

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.187 / 87
p0 −31.75 ± 1.14
pull
Entries 88
Mean 321.8
Std Dev 0

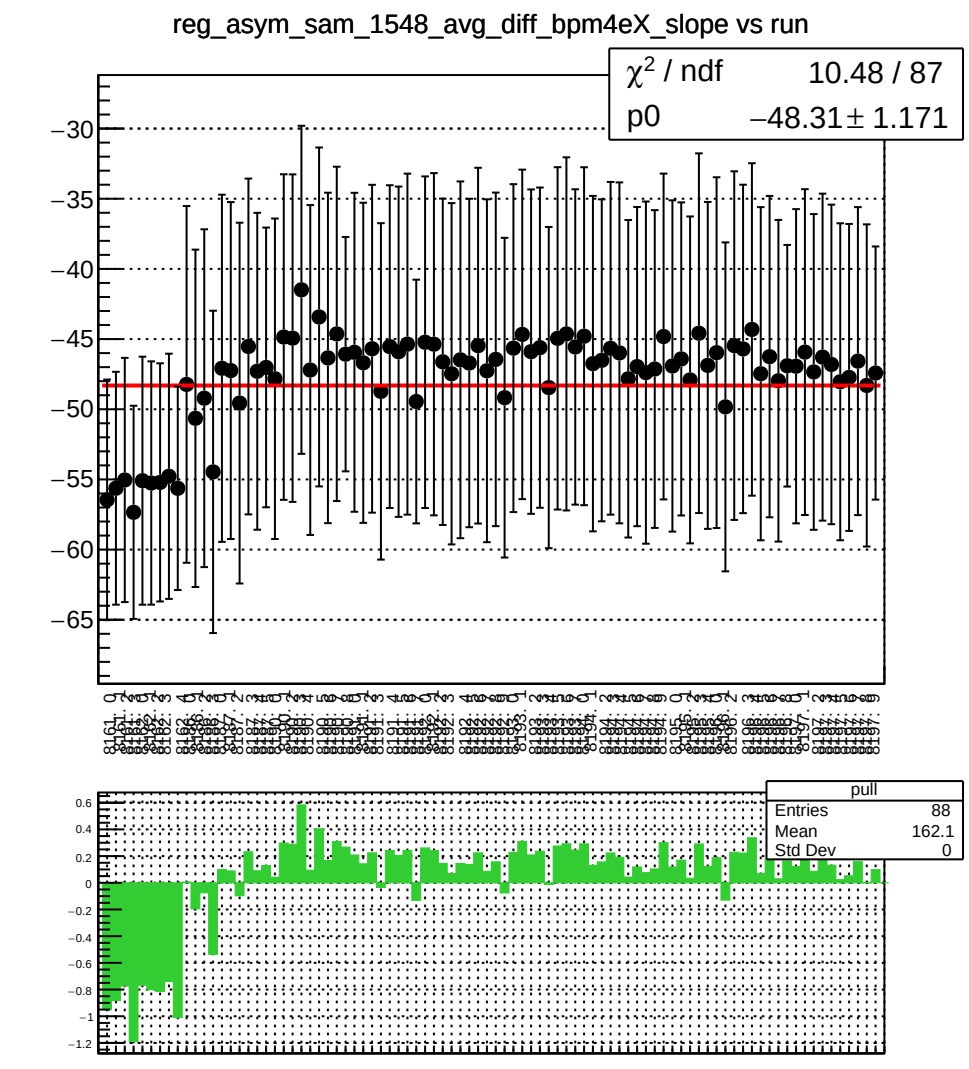

pull1D
Entries 88
Mean 0.009325
Std Dev 0.2426

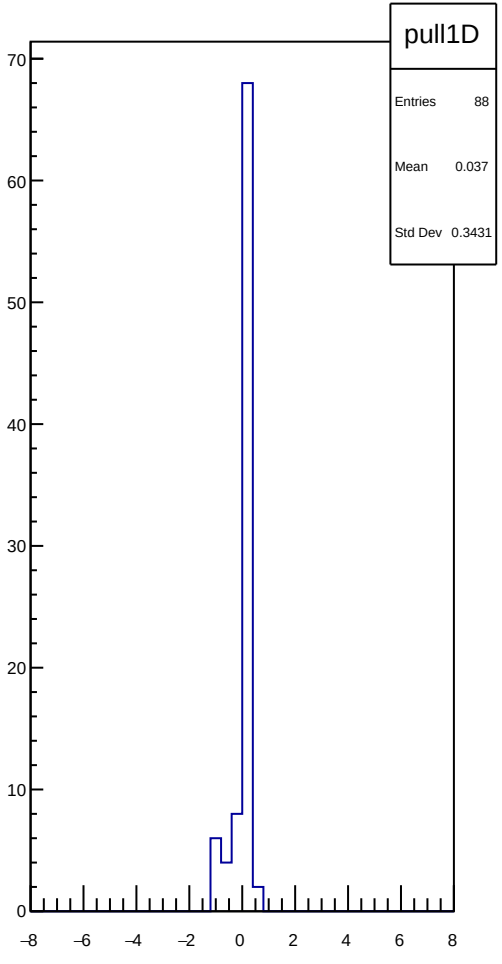

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 87.33 / 87
p0 1.454 ± 0.05163
pull
Entries 88
Mean 248.4
Std Dev 0
pull1D
Entries 88
Mean 0.07535
Std Dev 0.9933

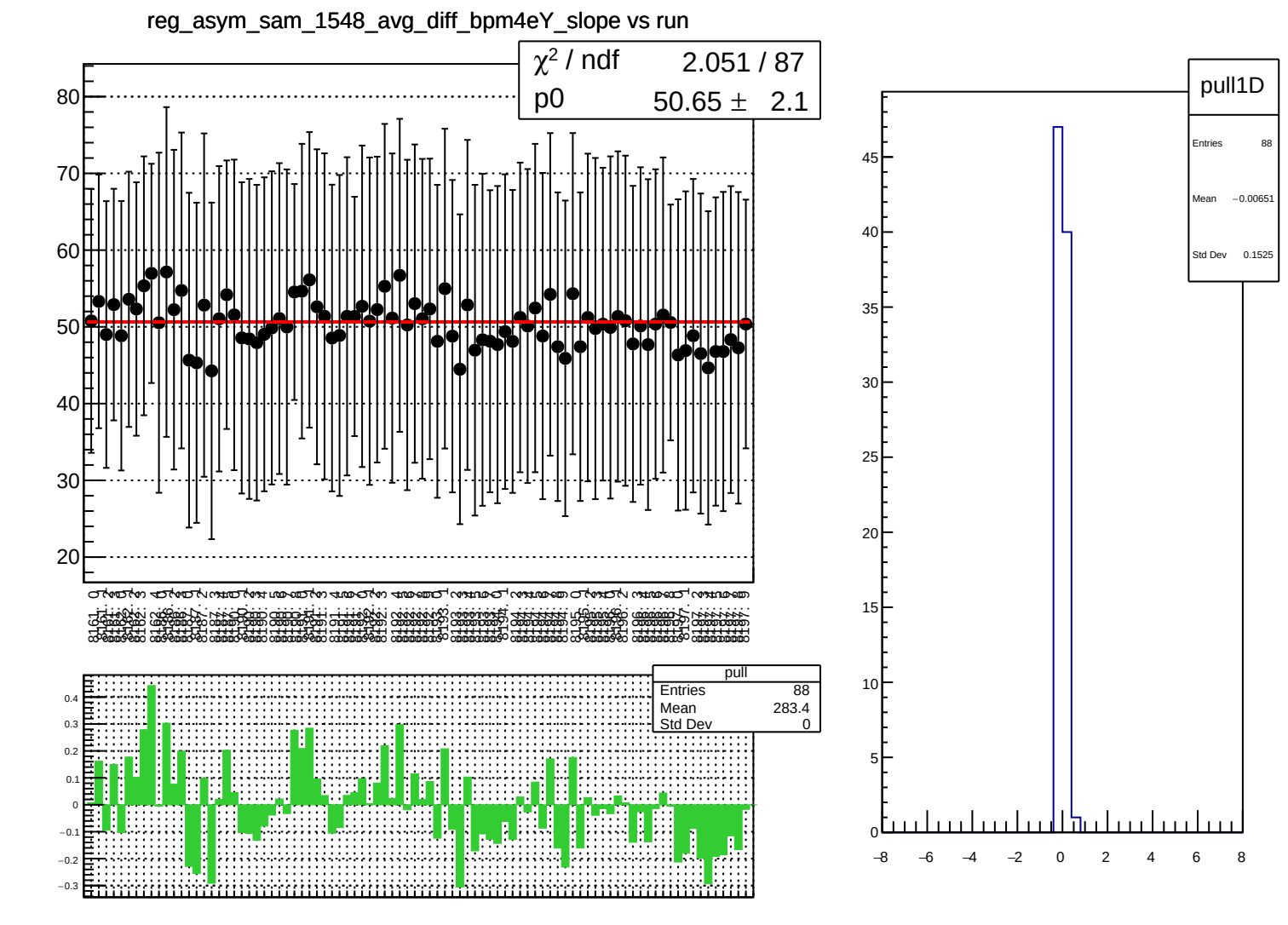

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 15.67 / 87
p0 −9.167 ± 1.17
pull
Entries 88
Mean 163.7
Std Dev 0

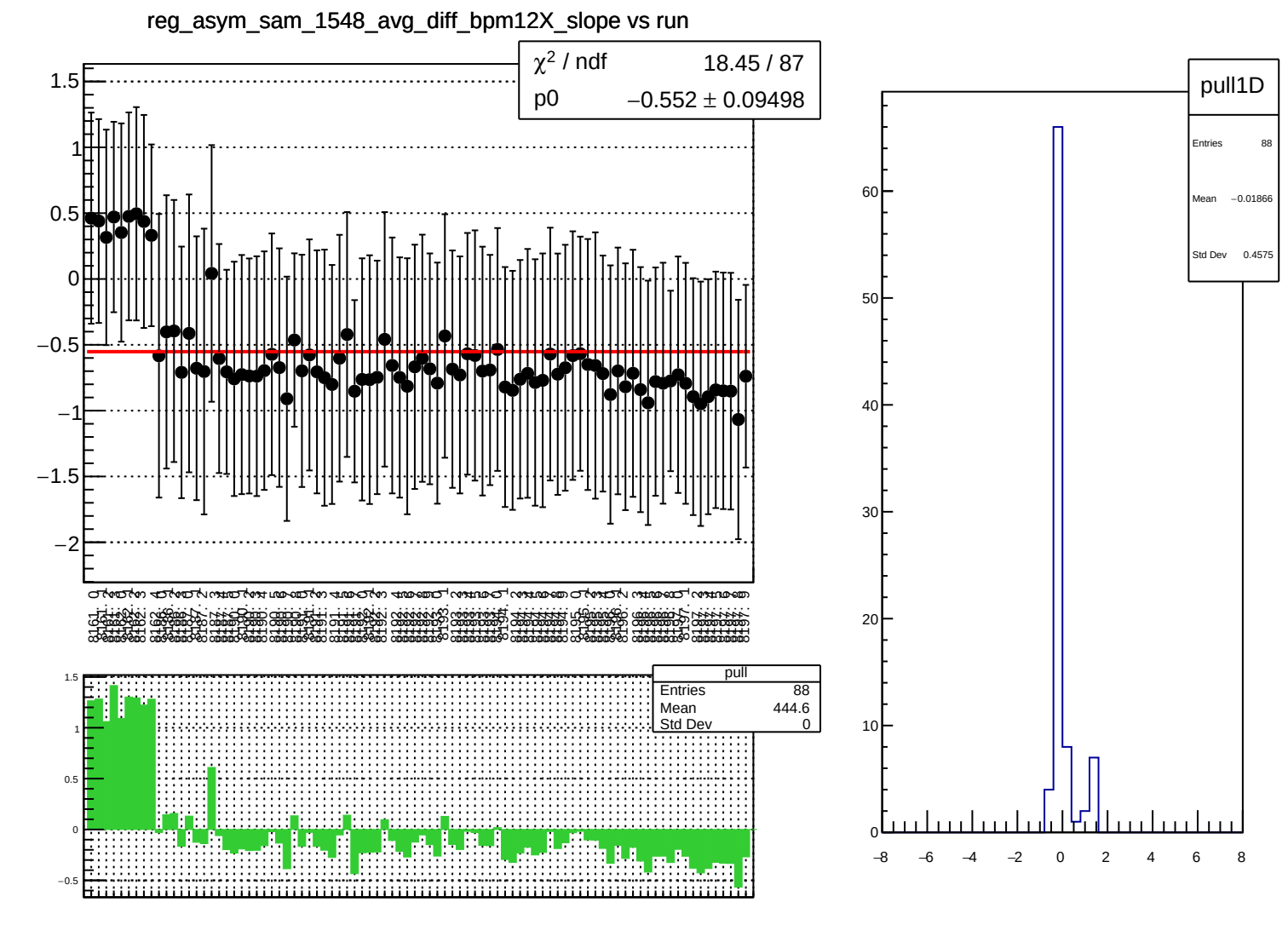

pull1D
Entries 88
Mean −0.04905
Std Dev 0.4192

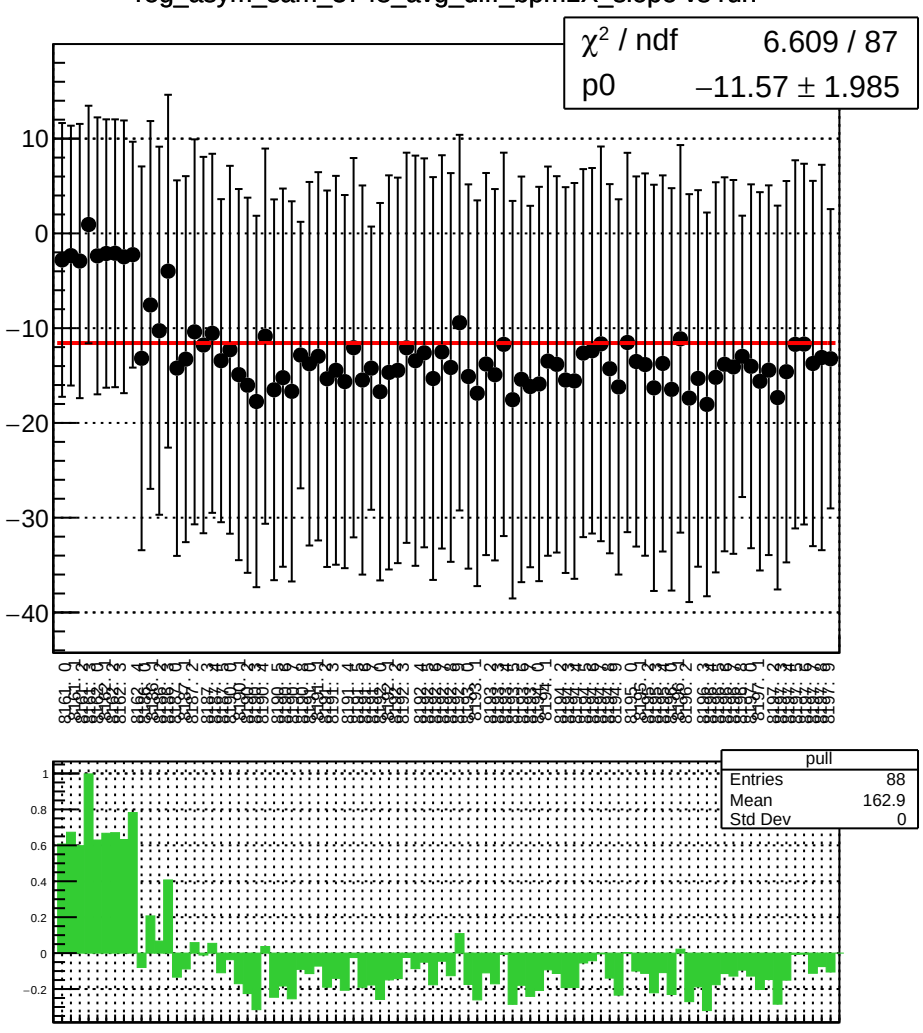

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.12 / 87
p0 38.38 ± 1.949
pull
Entries 88
Mean 364
Std Dev 0
pull1D
Entries 88
Mean 0.009685
Std Dev 0.188

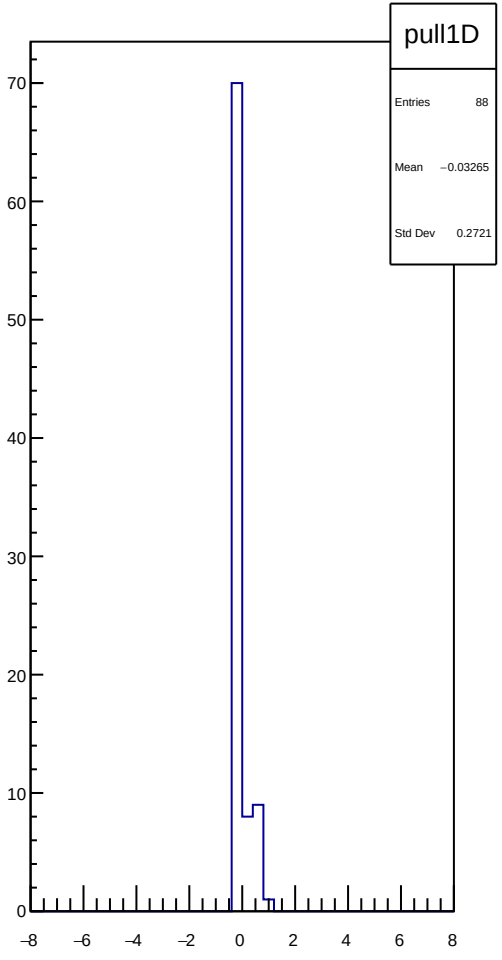

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.48 / 87
p0 −48.31 ± 1.171
pull
Entries 88
Mean 162.1
Std Dev 0

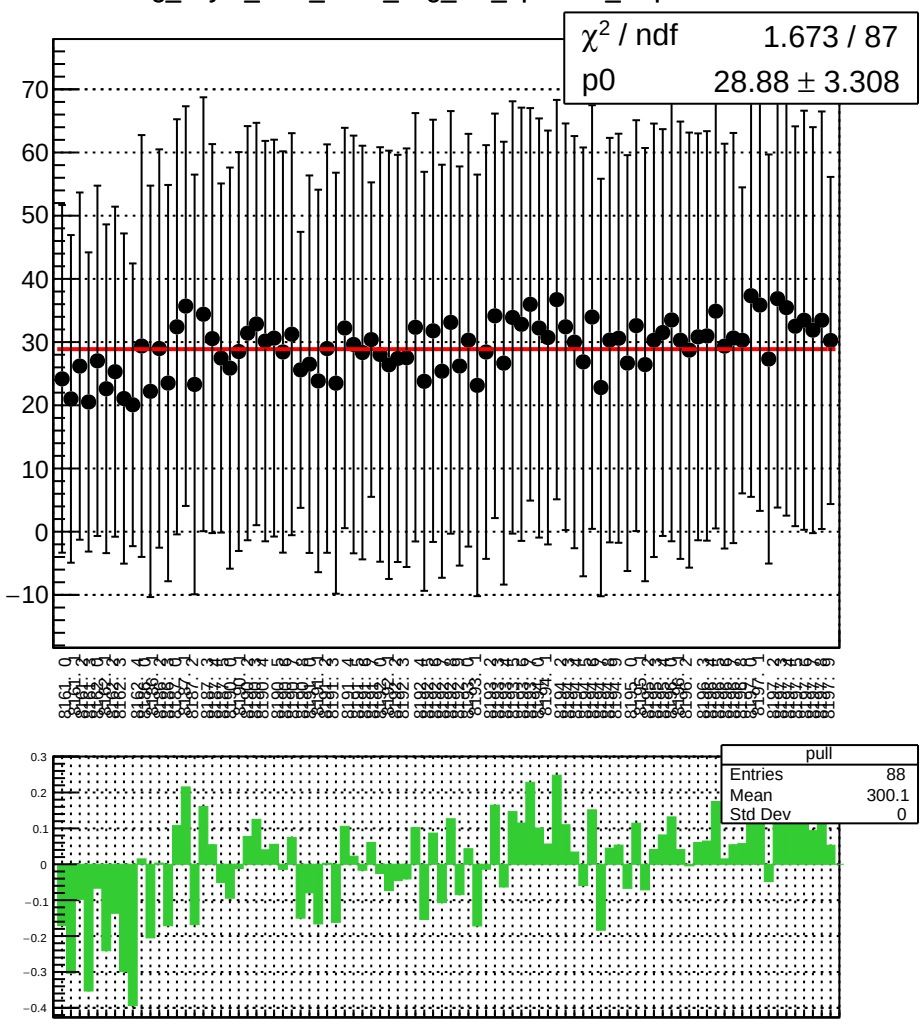

pull1D
Entries 88
Mean 0.037
Std Dev 0.3431

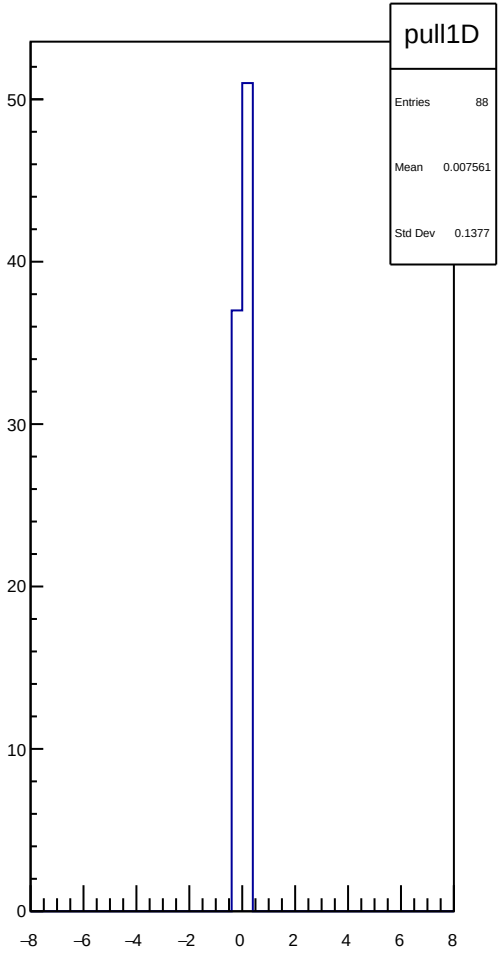

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.051 / 87
p0 50.65 ± 2.1
pull
Entries 88
Mean 283.4
Std Dev 0
pull1D
Entries 88
Mean −0.00651
Std Dev 0.1525

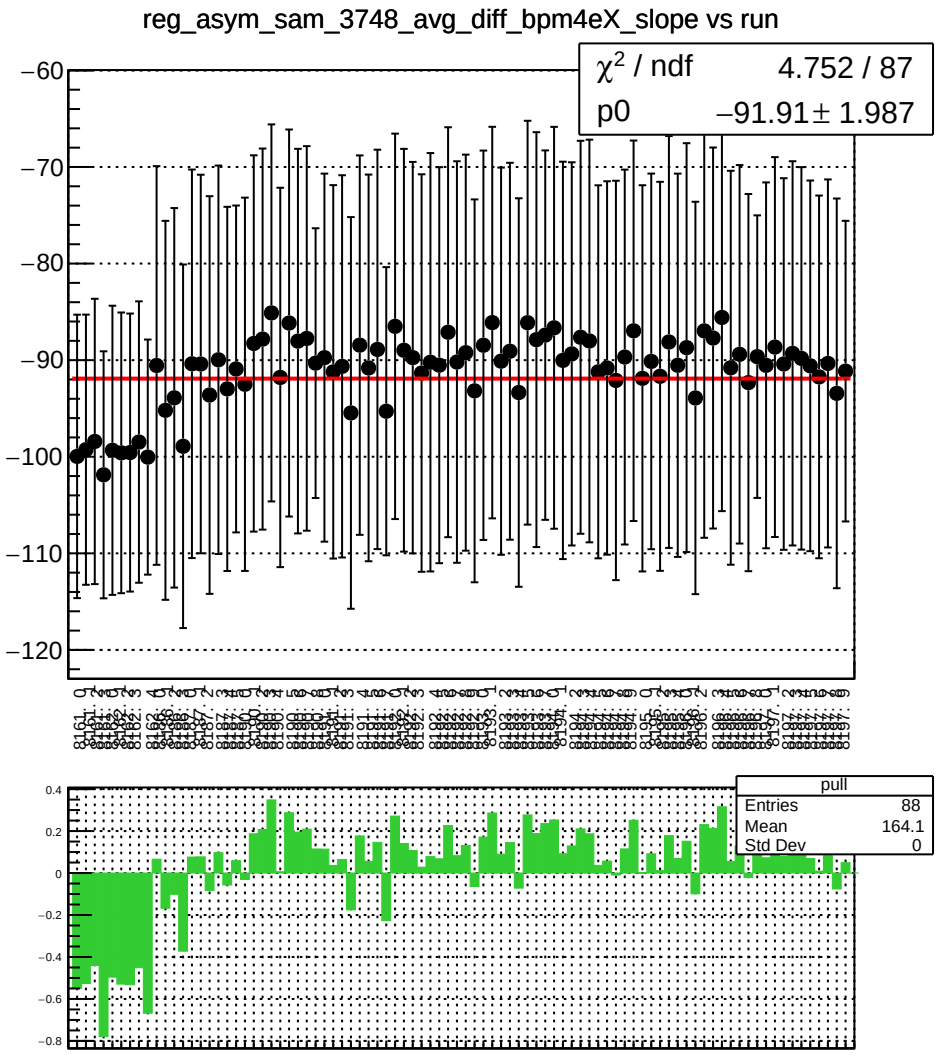

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 18.45 / 87
p0 −0.552 ± 0.09498
pull
Entries 88
Mean 444.6
Std Dev 0
pull1D
Entries 88
Mean −0.01866
Std Dev 0.4575

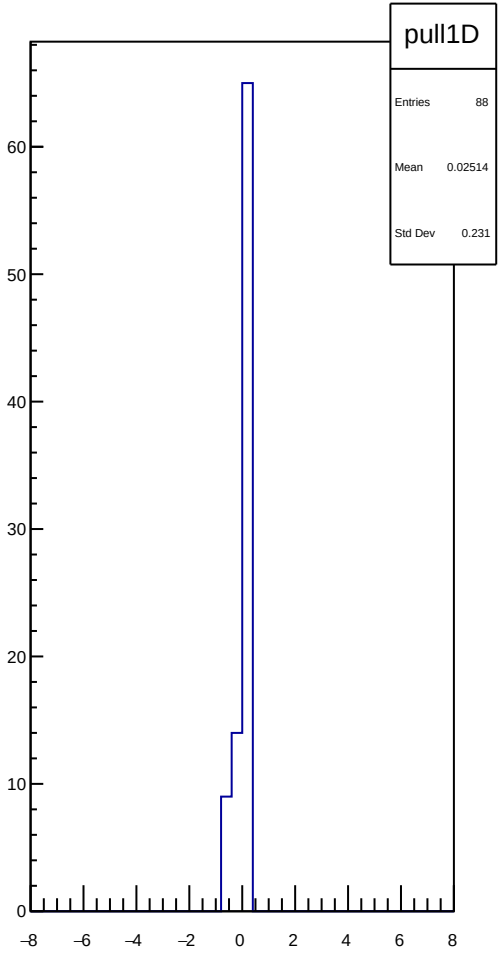

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 6.609 / 87
p0 −11.57 ± 1.985
pull
Entries 88
Mean 162.9
Std Dev 0

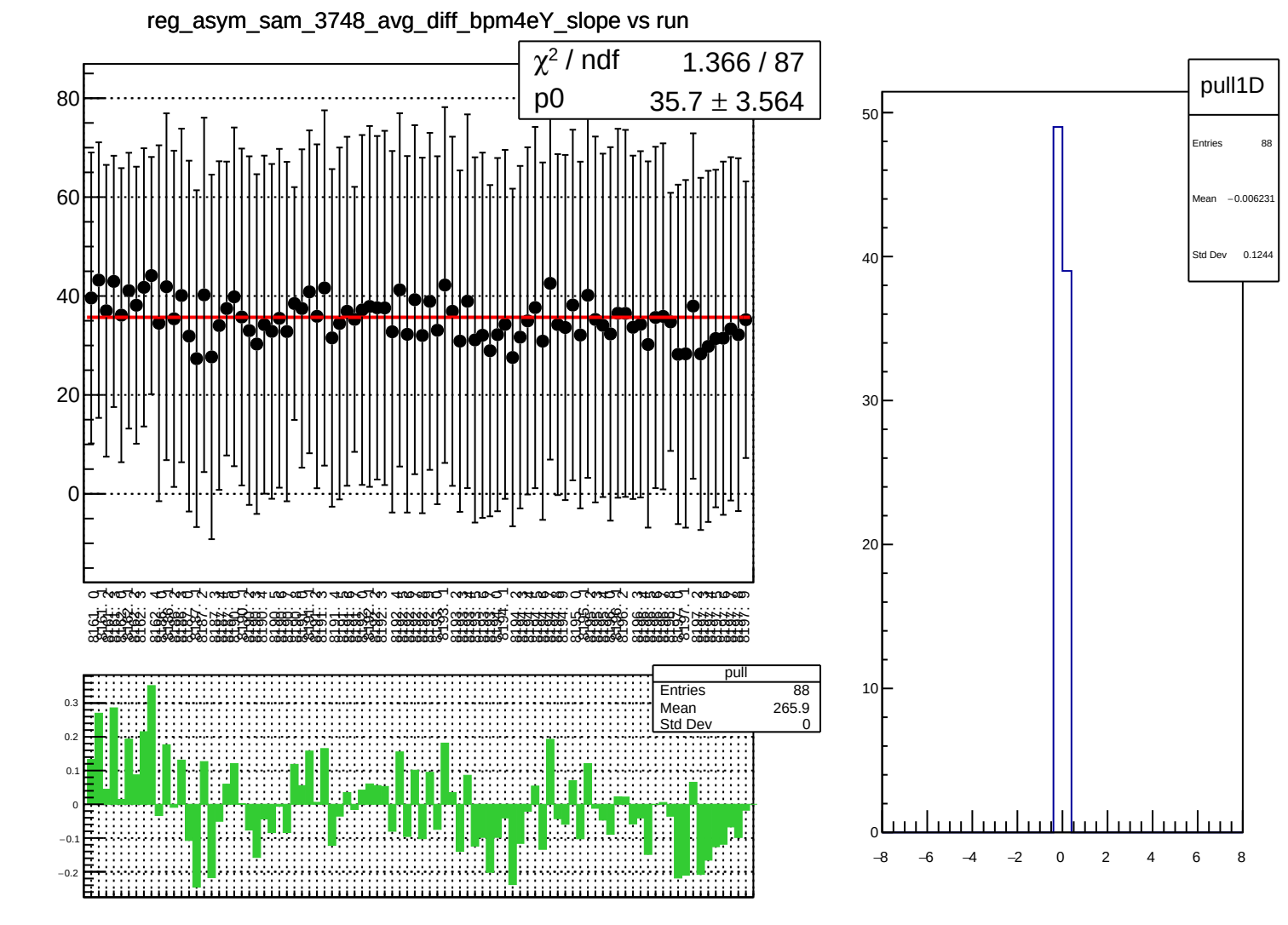

pull1D
Entries 88
Mean −0.03265
Std Dev 0.2721

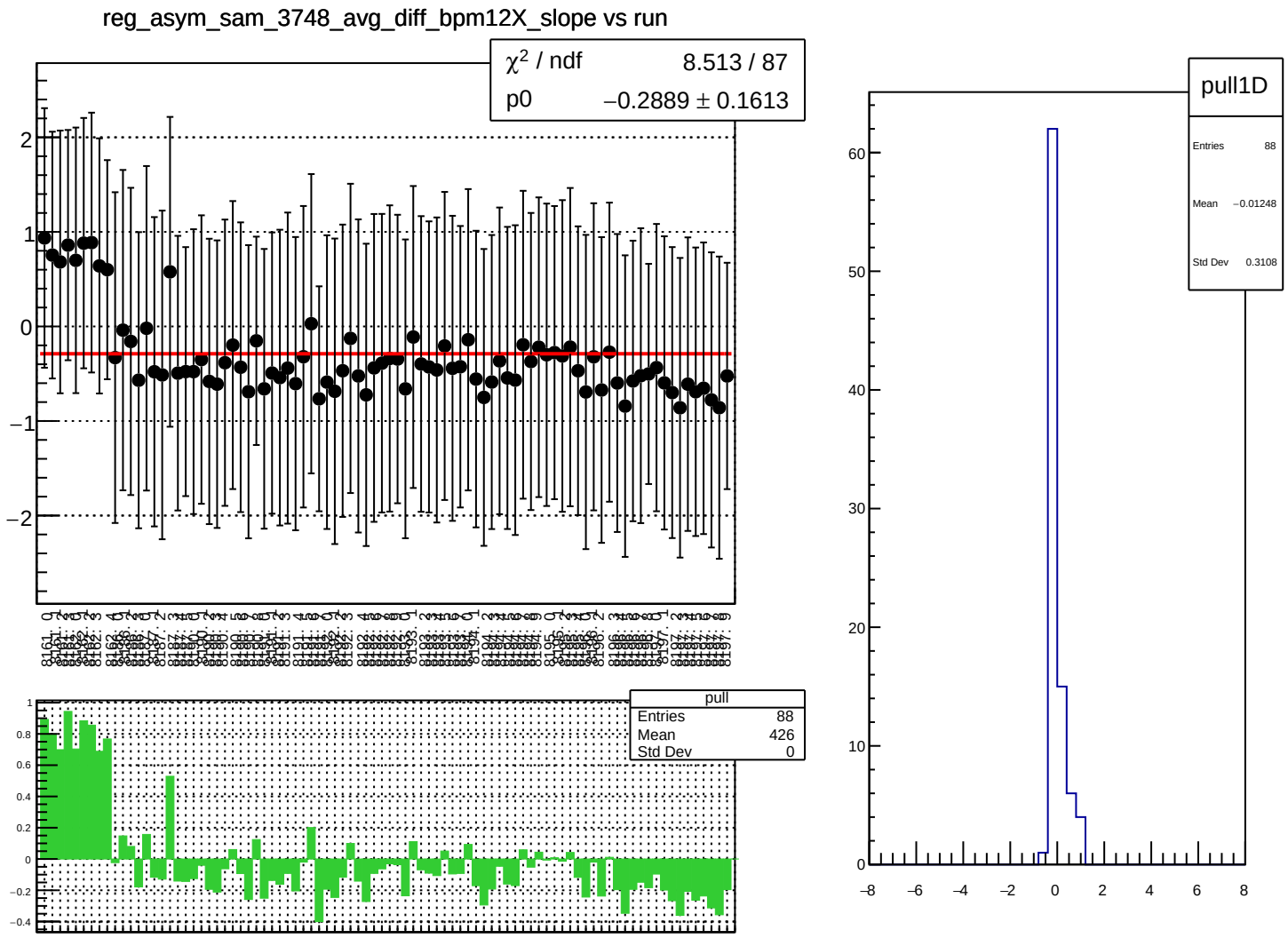

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.673 / 87
p0 28.88 ± 3.308
pull
Entries 88
Mean 300.1
Std Dev 0

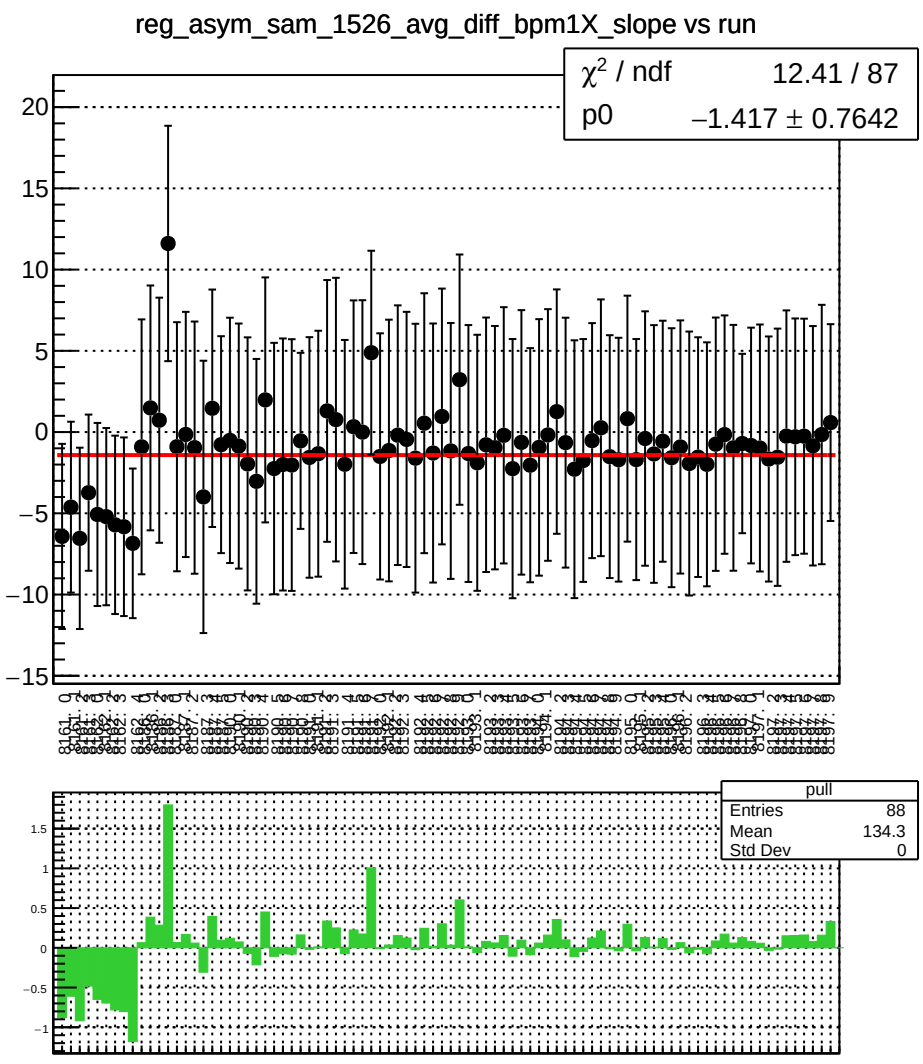

pull1D
Entries 88
Mean 0.007561
Std Dev 0.1377

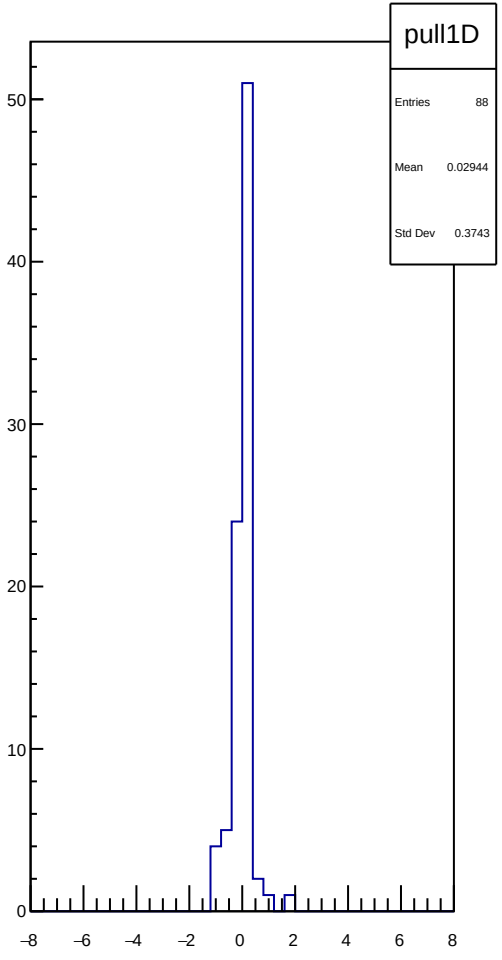

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.752 / 87
p0 −91.91 ± 1.987
pull
Entries 88
Mean 164.1
Std Dev 0

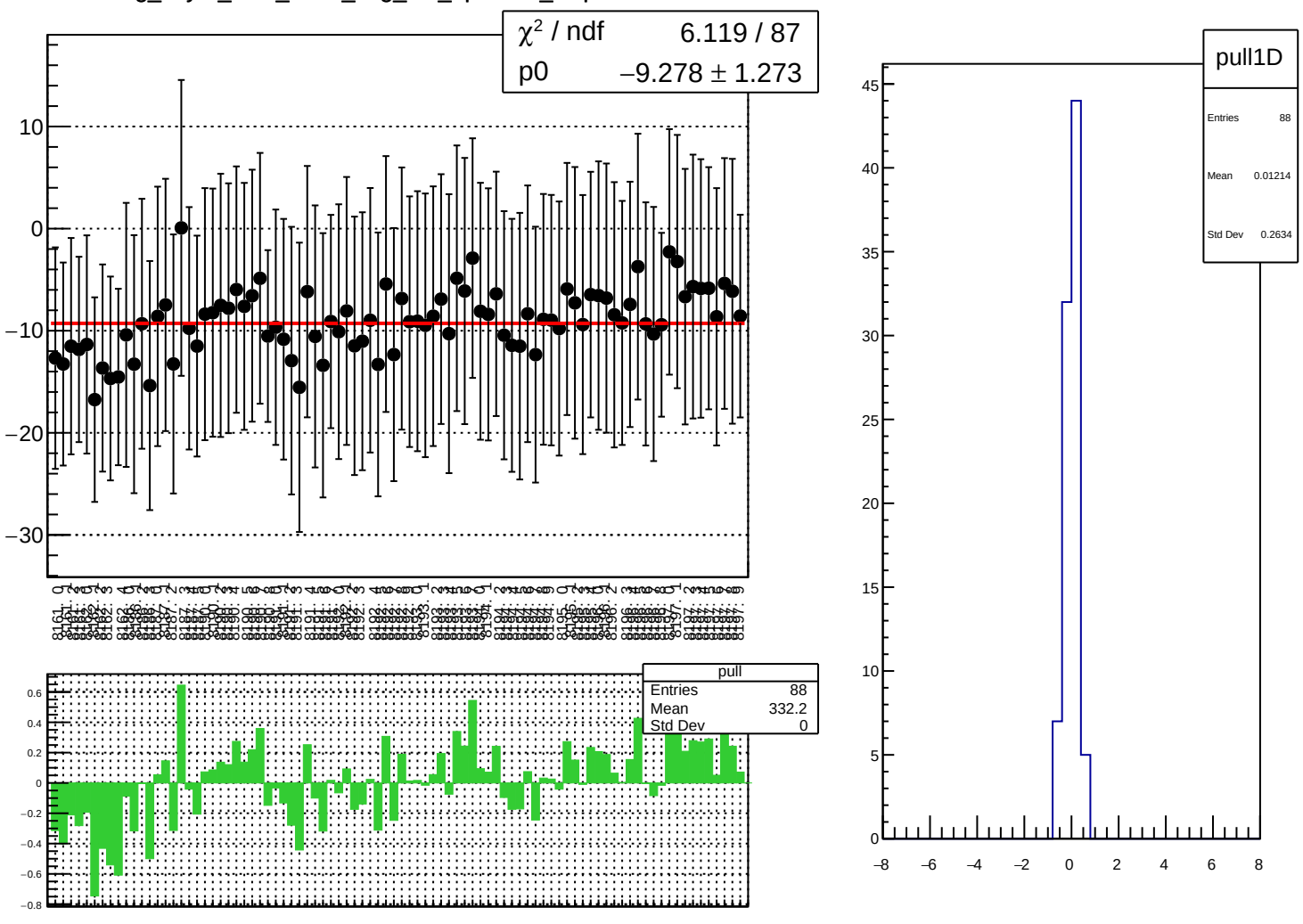

pull1D
Entries 88
Mean 0.02514
Std Dev 0.231

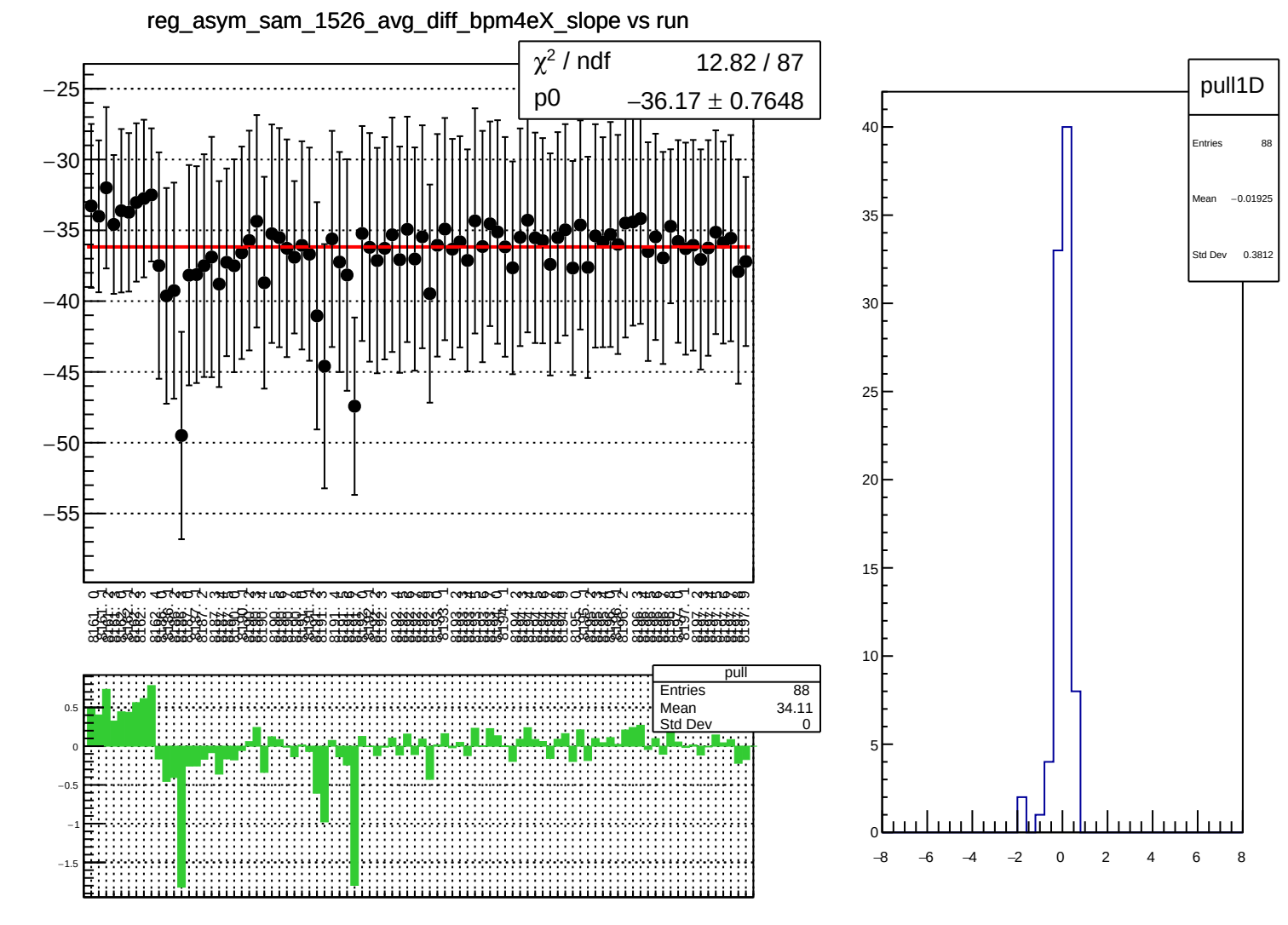

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.366 / 87
p0 35.7 ± 3.564
pull
Entries 88
Mean 265.9
Std Dev 0
pull1D
Entries 88
Mean −0.006231
Std Dev 0.1244

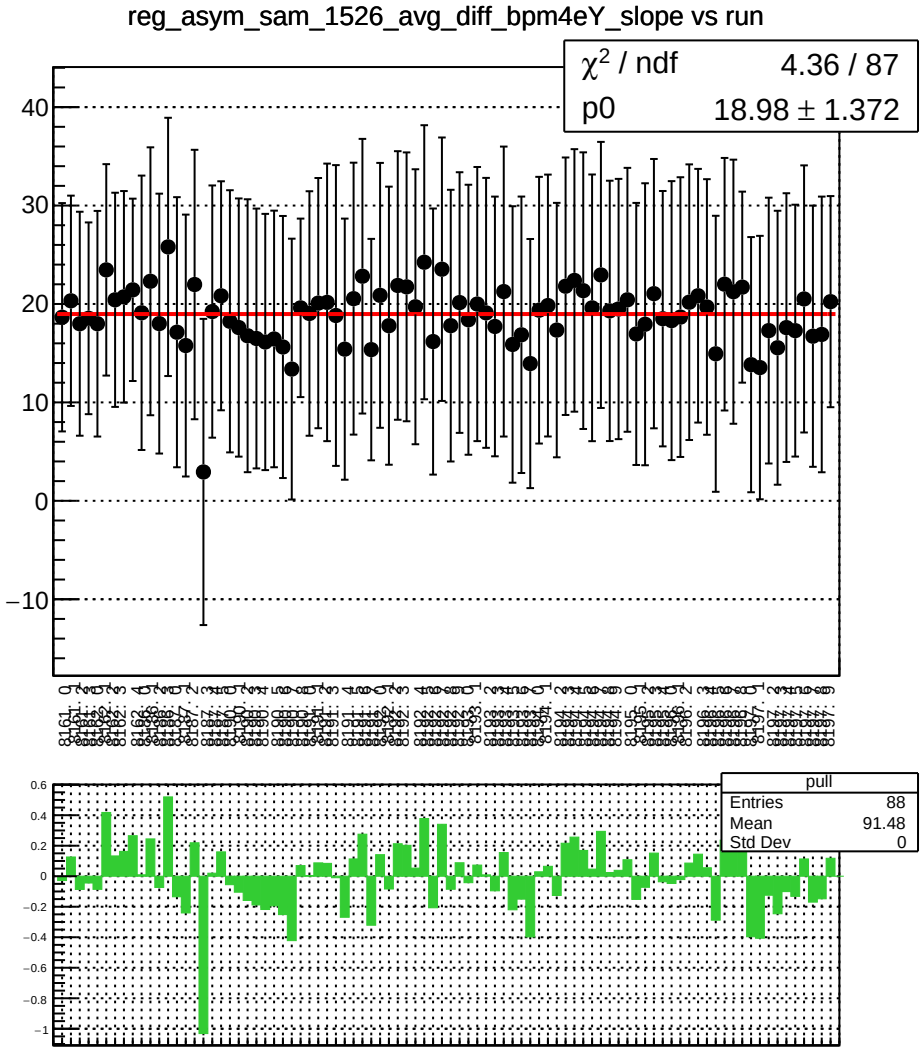

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 8.513 / 87
p0 −0.2889 ± 0.1613
pull
Entries 88
Mean 426
Std Dev 0
pull1D
Entries 88
Mean −0.01248
Std Dev 0.3108

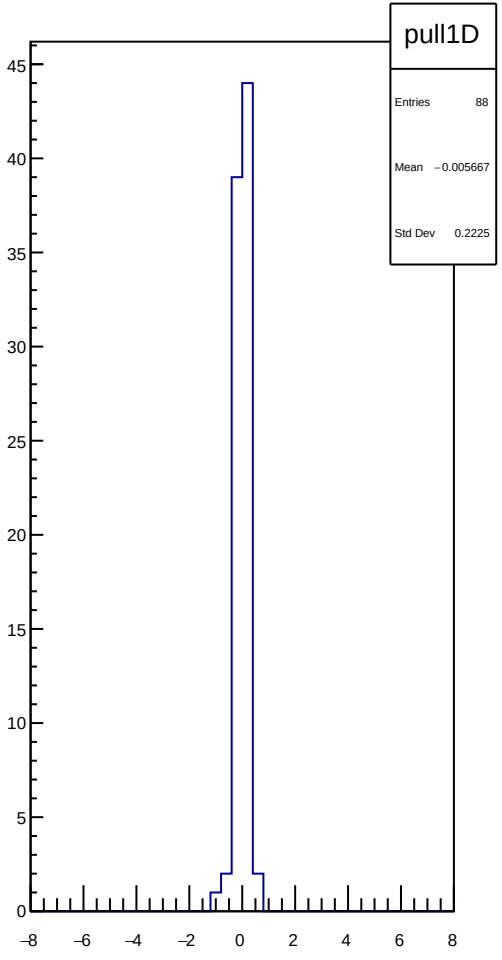

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 12.41 / 87
p0 −1.417 ± 0.7642
pull
Entries 88
Mean 134.3
Std Dev 0

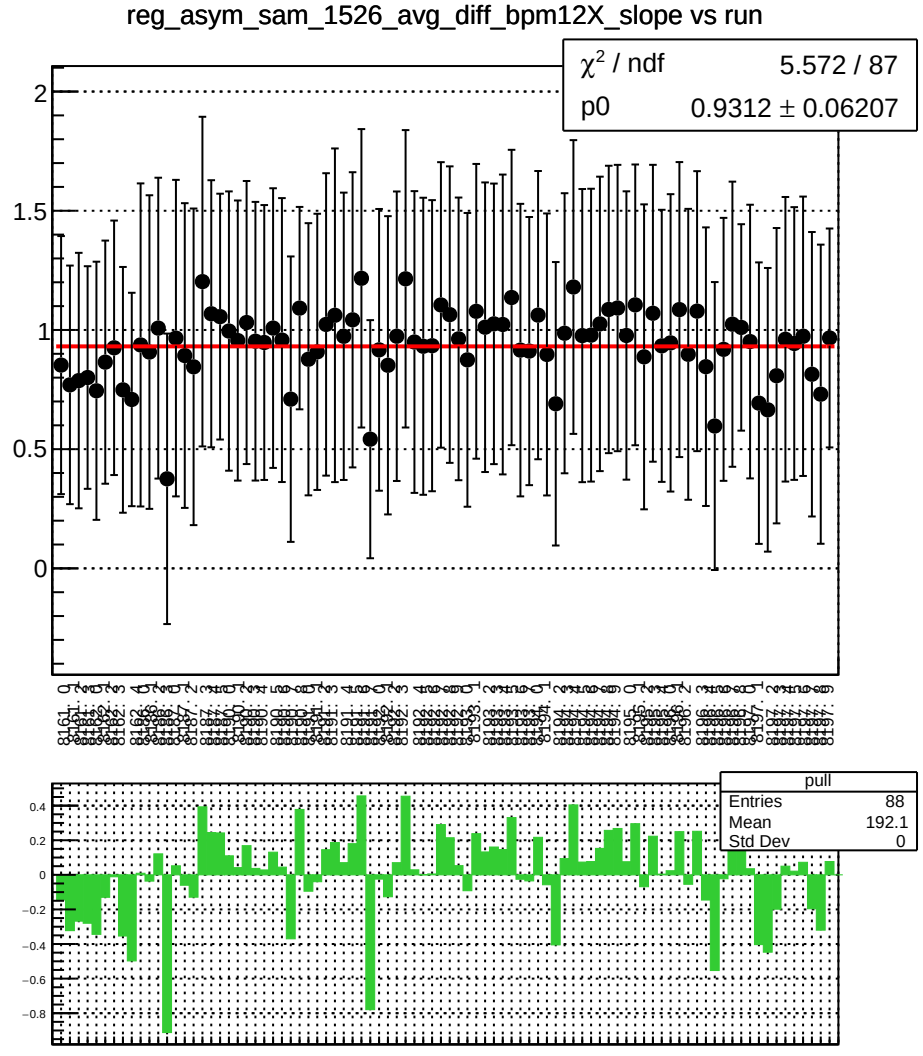

pull1D
Entries 88
Mean 0.02944
Std Dev 0.3743

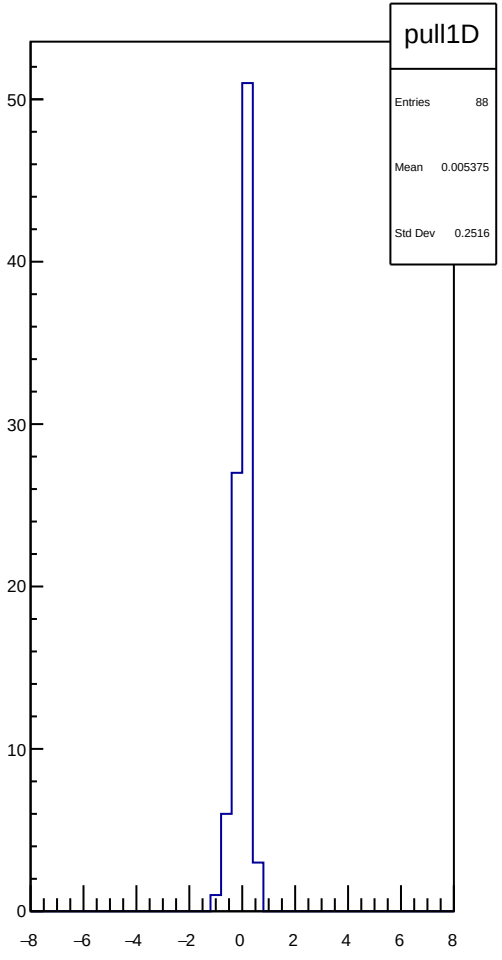

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.119 / 87
p0 −9.278 ± 1.273
pull
Entries 88
Mean 332.2
Std Dev 0
pull1D
Entries 88
Mean 0.01214
Std Dev 0.2634

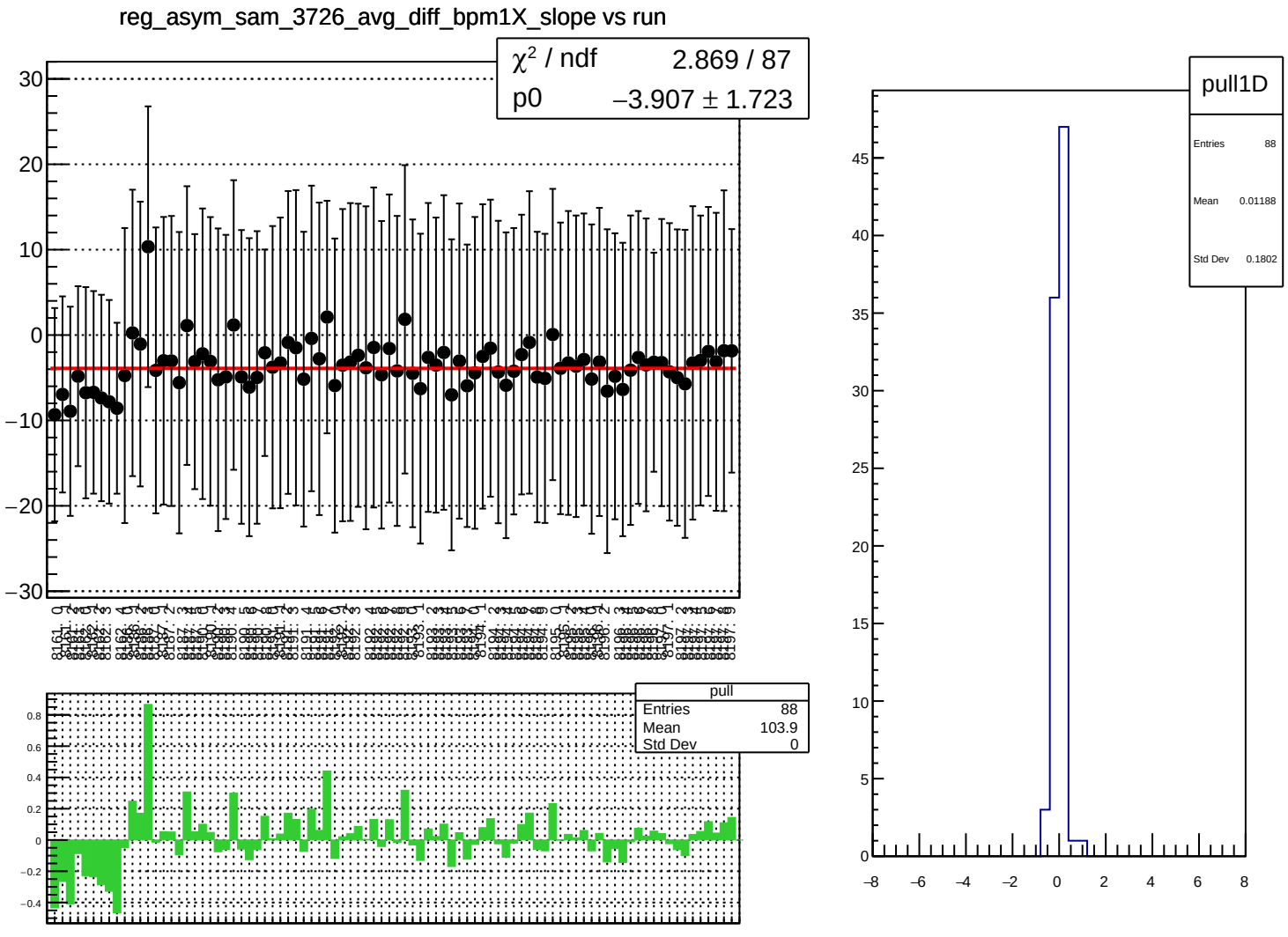

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.82 / 87
p0 −36.17 ± 0.7648
pull
Entries 88
Mean 34.11
Std Dev 0
pull1D
Entries 88
Mean −0.01925
Std Dev 0.3812

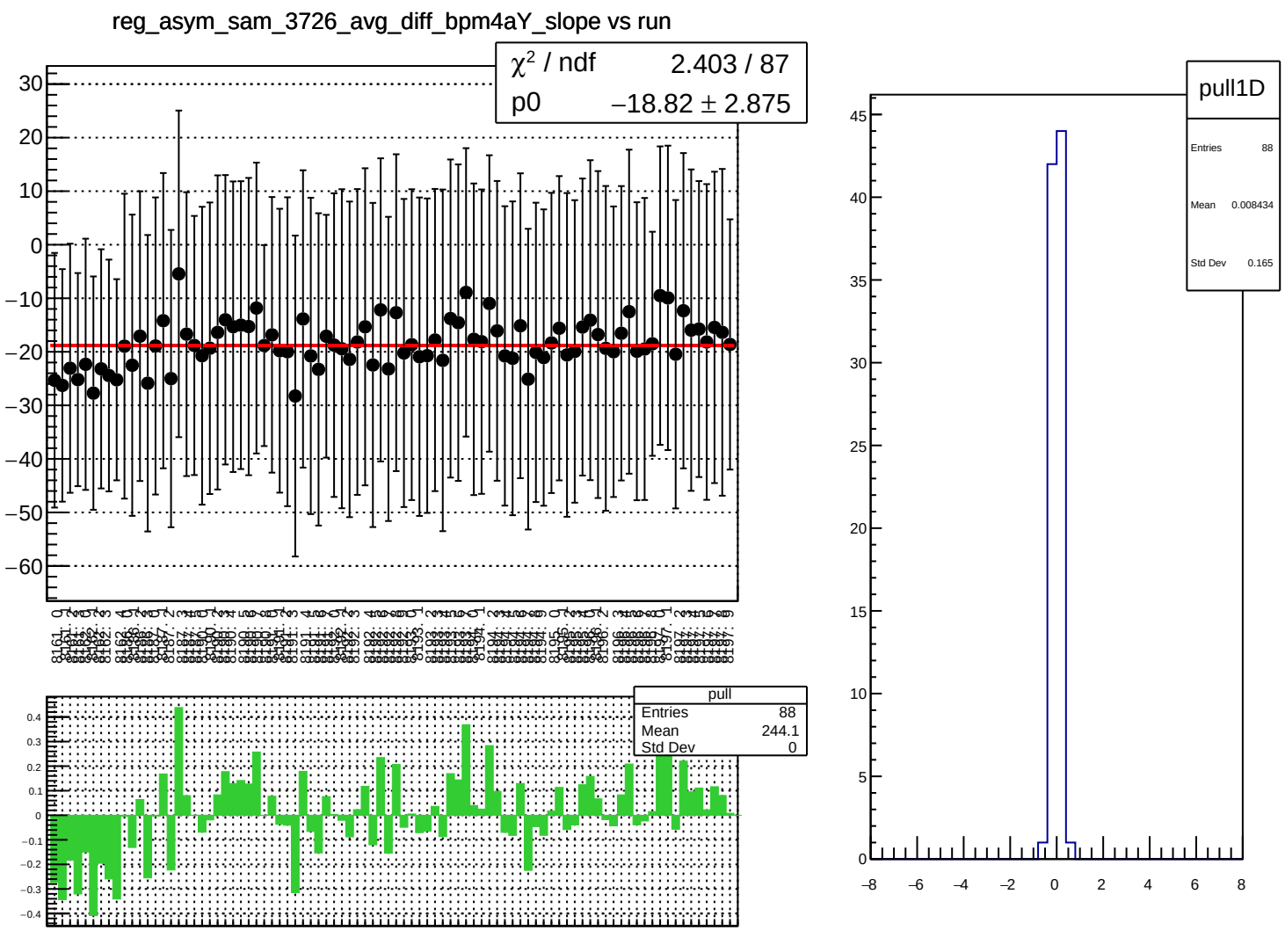

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.36 / 87
p0 18.98 ± 1.372
pull
Entries 88
Mean 91.48
Std Dev 0

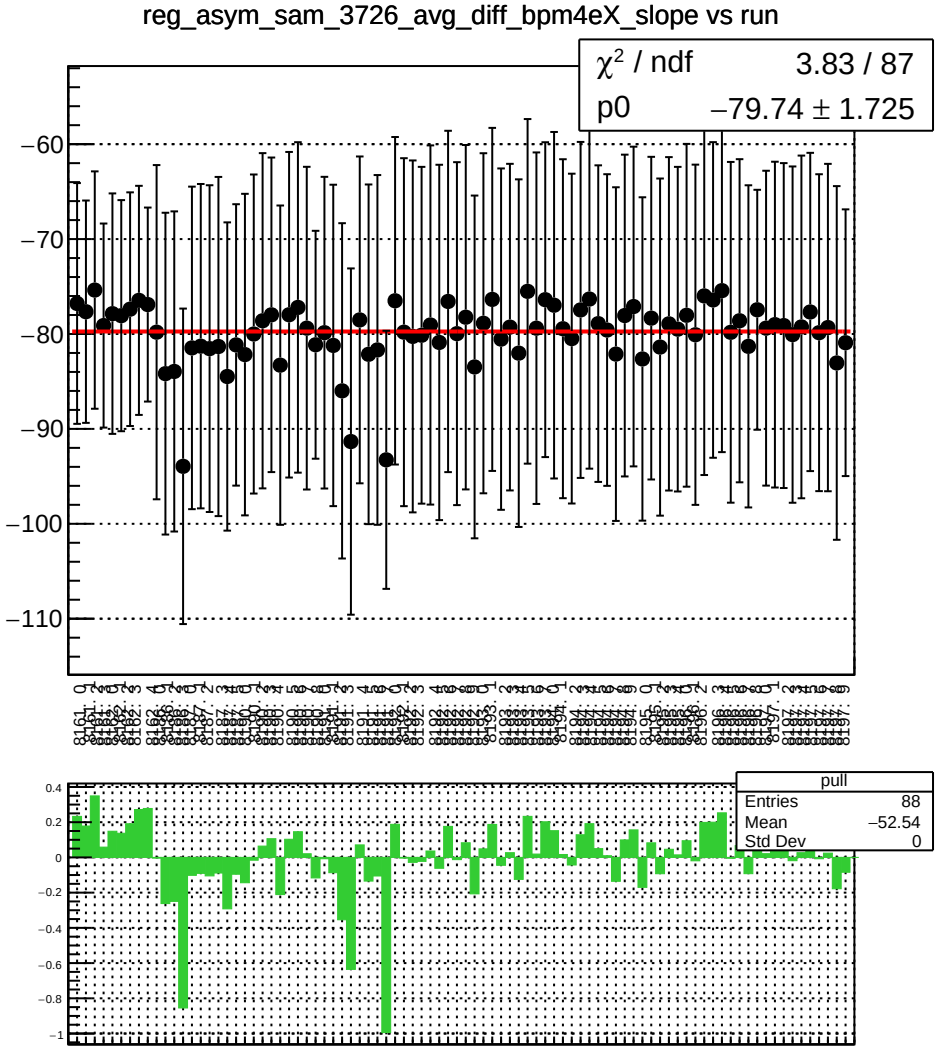

pull1D
Entries 88
Mean −0.005667
Std Dev 0.2225

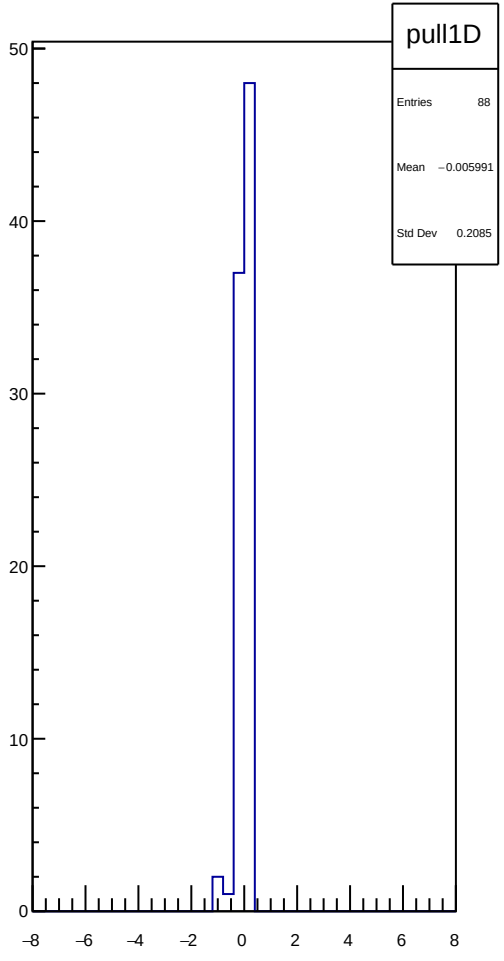

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 5.572 / 87
p0 0.9312 ± 0.06207
pull
Entries 88
Mean 192.1
Std Dev 0

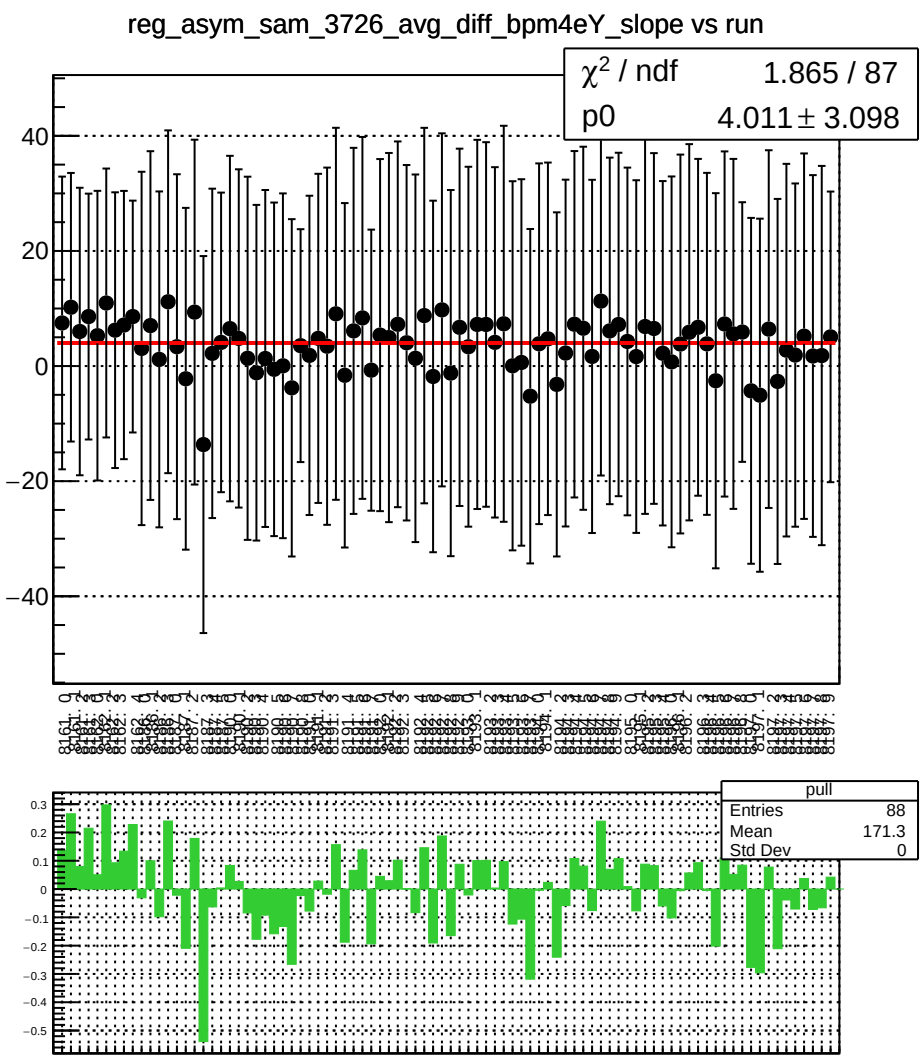

pull1D
Entries 88
Mean 0.005375
Std Dev 0.2516

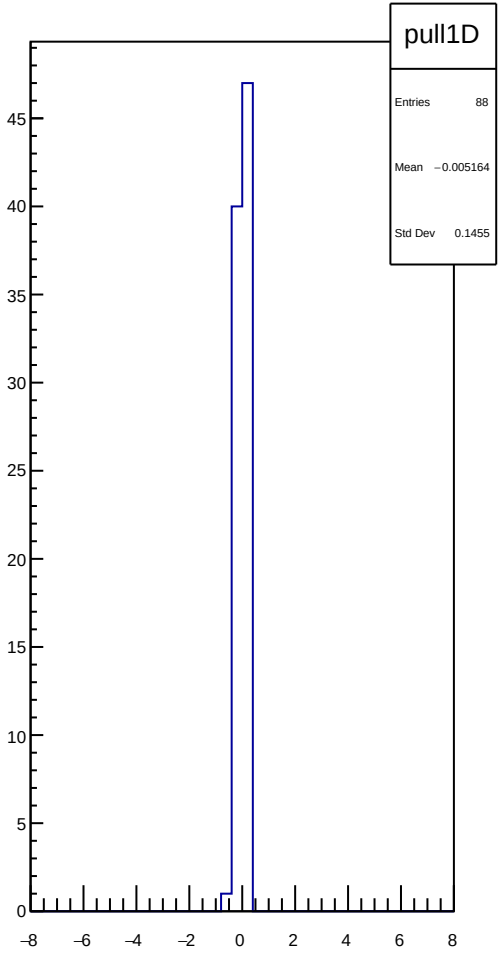

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 2.869 / 87
p0 −3.907 ± 1.723
pull
Entries 88
Mean 103.9
Std Dev 0
pull1D
Entries 88
Mean 0.01188
Std Dev 0.1802

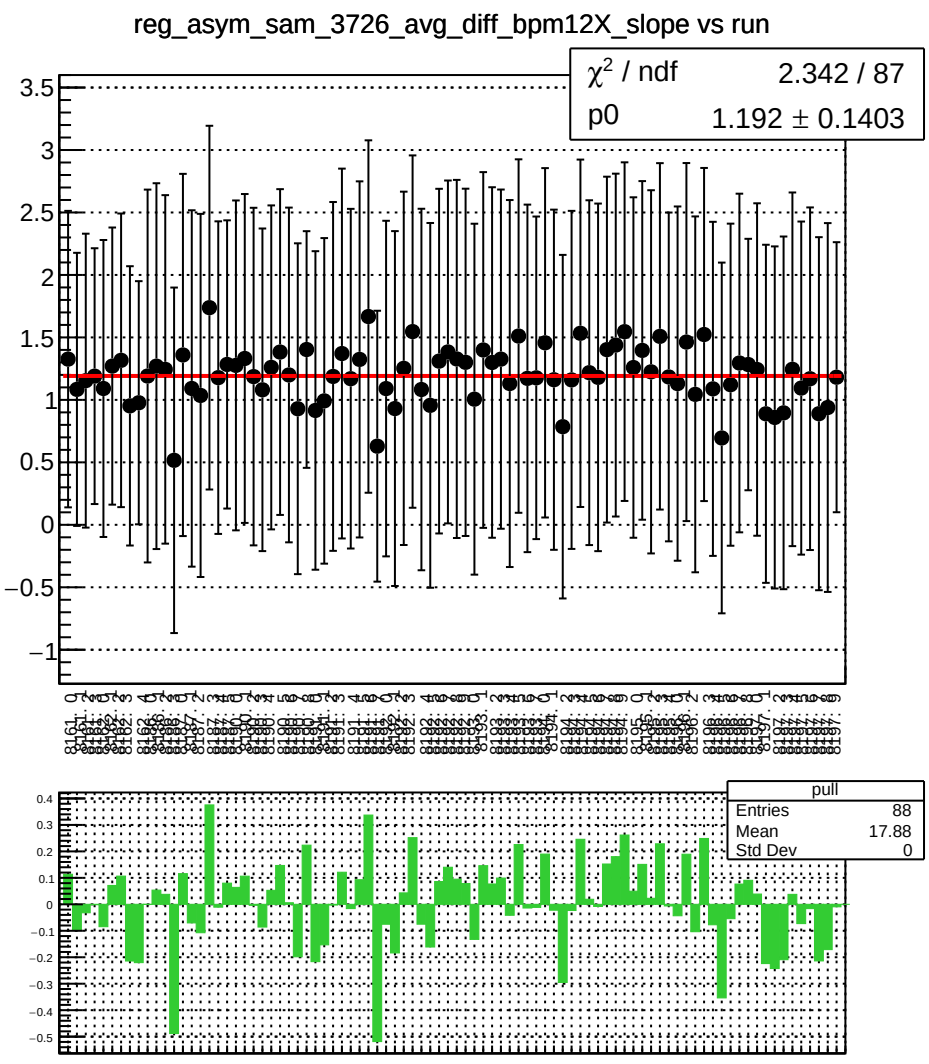

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.403 / 87
p0 −18.82 ± 2.875
pull
Entries 88
Mean 244.1
Std Dev 0
pull1D
Entries 88
Mean 0.008434
Std Dev 0.165

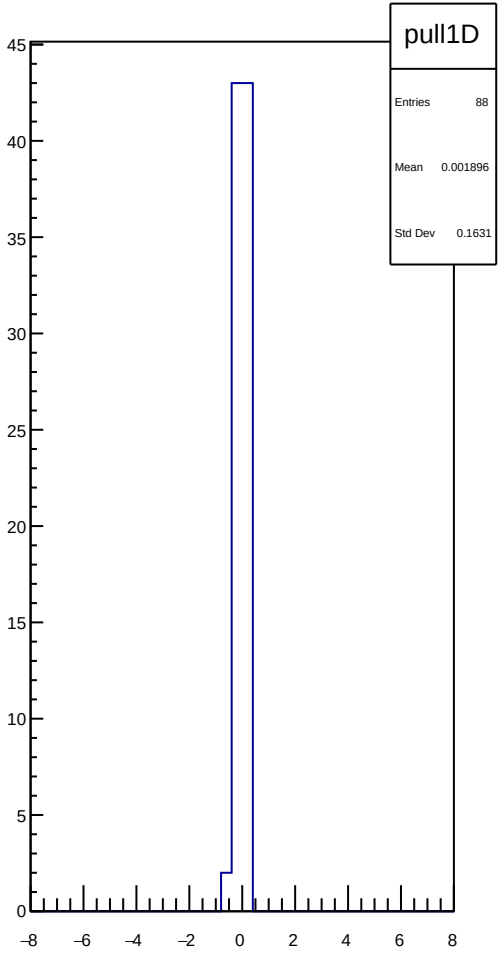

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.83 / 87
p0 −79.74 ± 1.725
pull
Entries 88
Mean −52.54
Std Dev 0

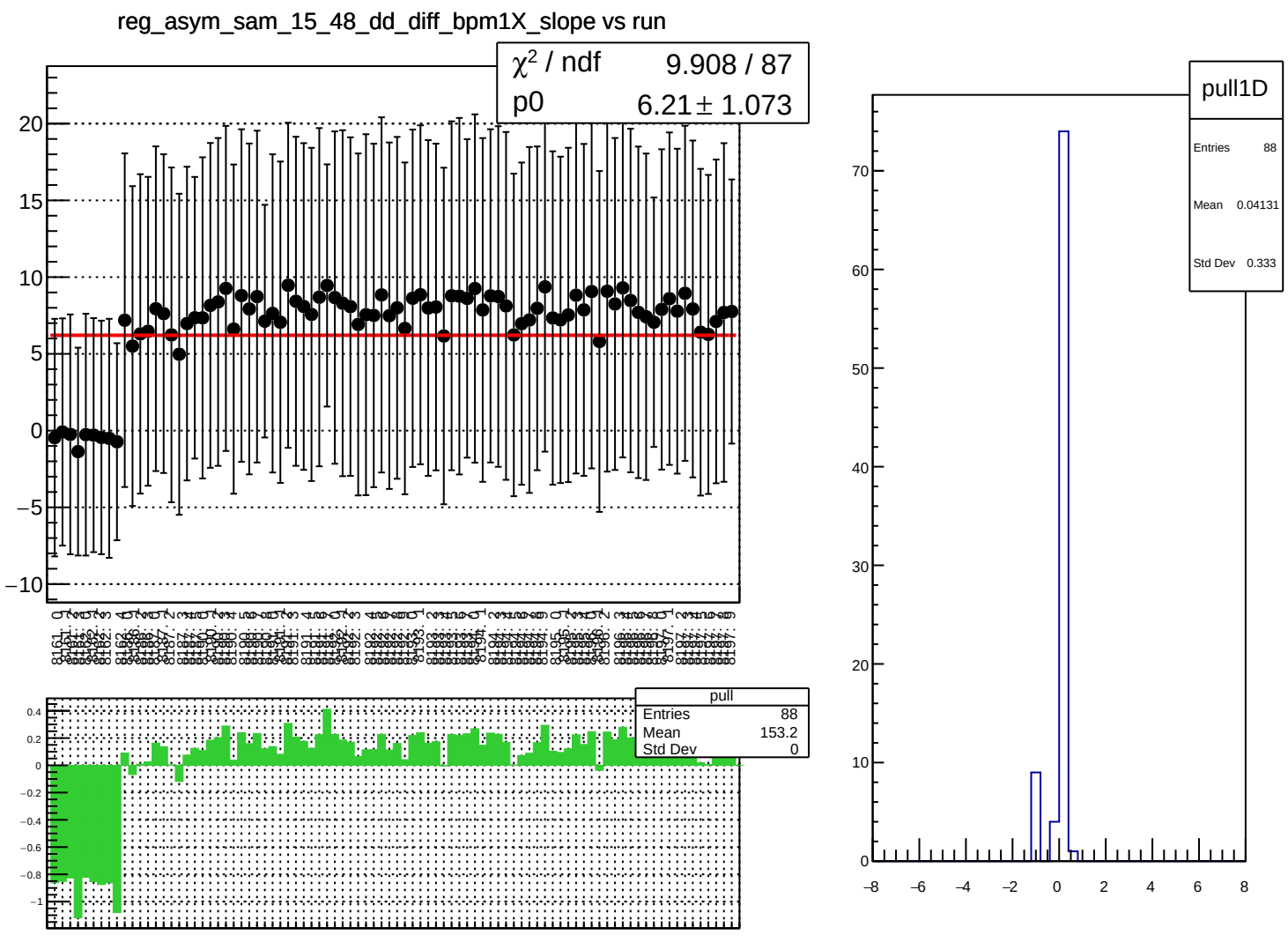

pull1D
Entries 88
Mean −0.005991
Std Dev 0.2085

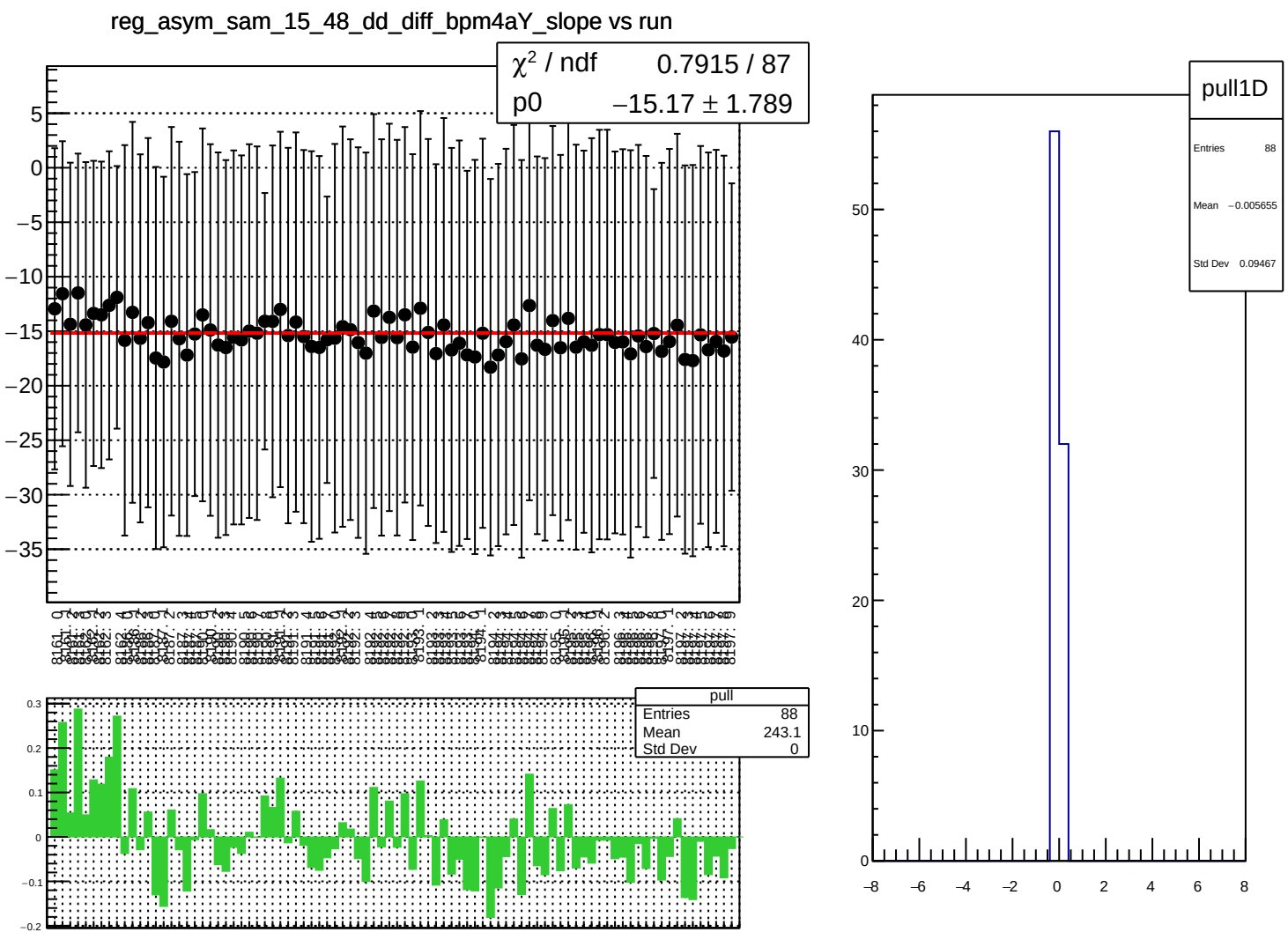

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.865 / 87
p0 4.011 ± 3.098
pull
Entries 88
Mean 171.3
Std Dev 0

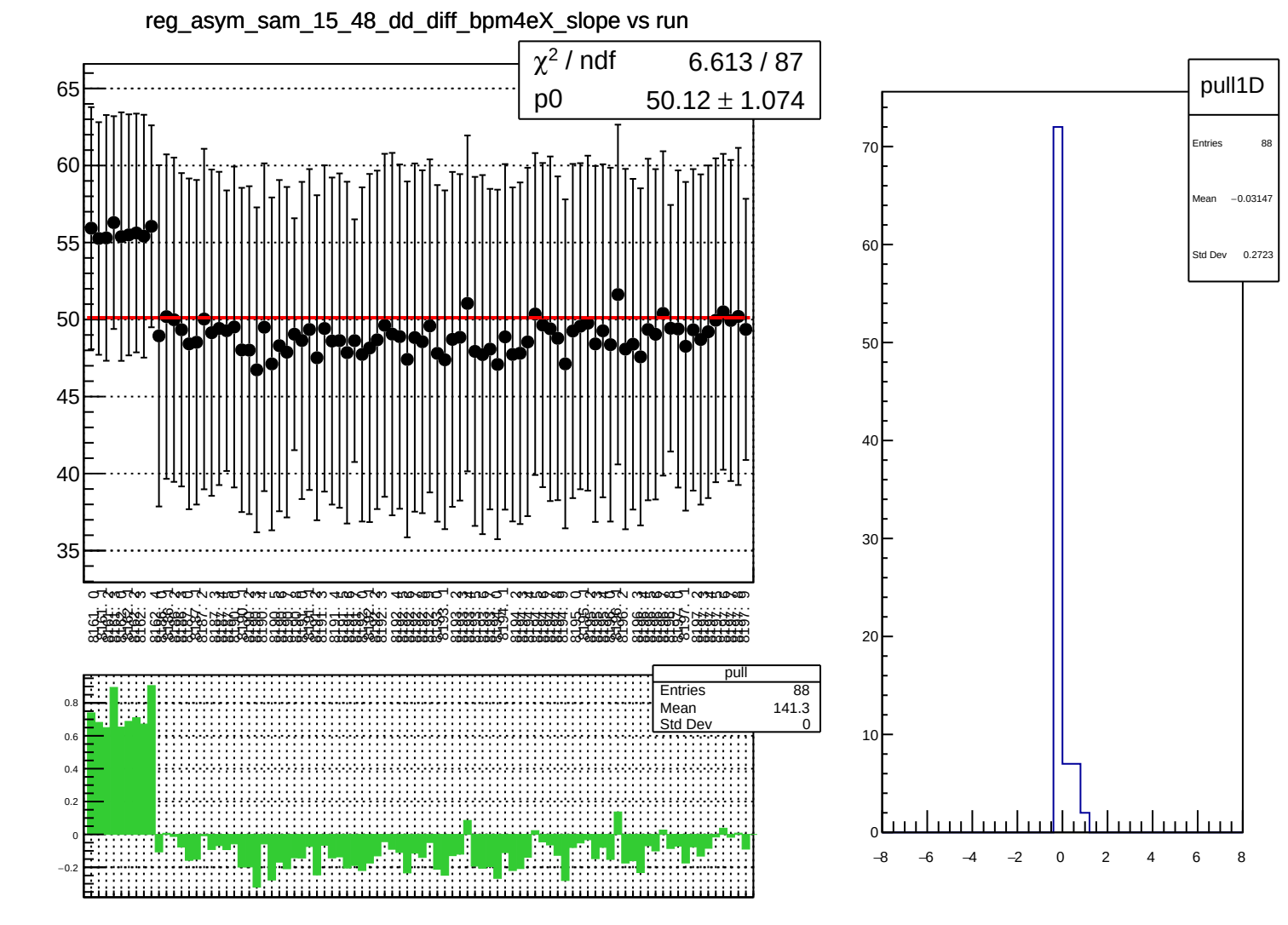

pull1D
Entries 88
Mean −0.005164
Std Dev 0.1455

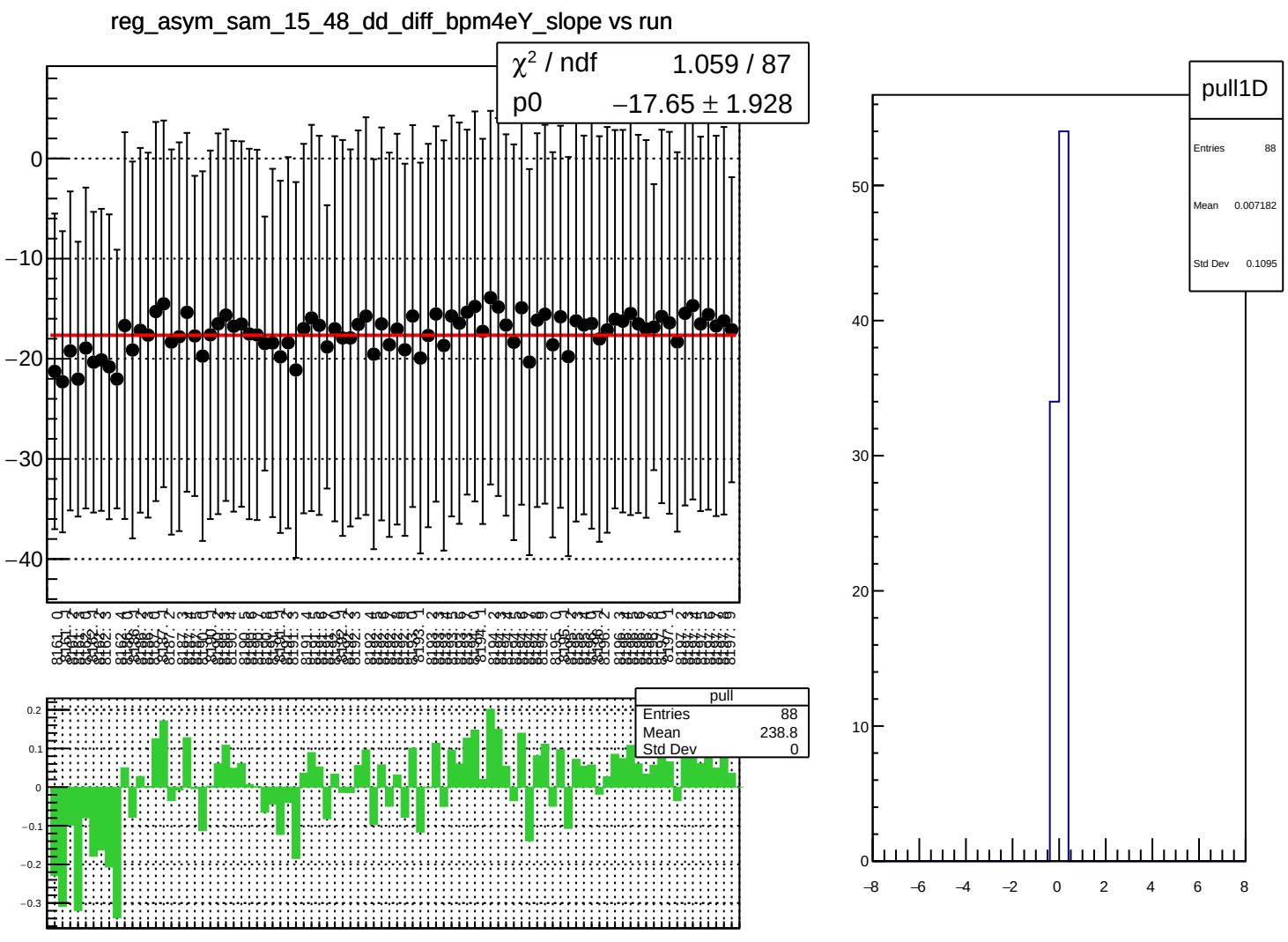

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.342 / 87
p0 1.192 ± 0.1403
pull
Entries 88
Mean 17.88
Std Dev 0

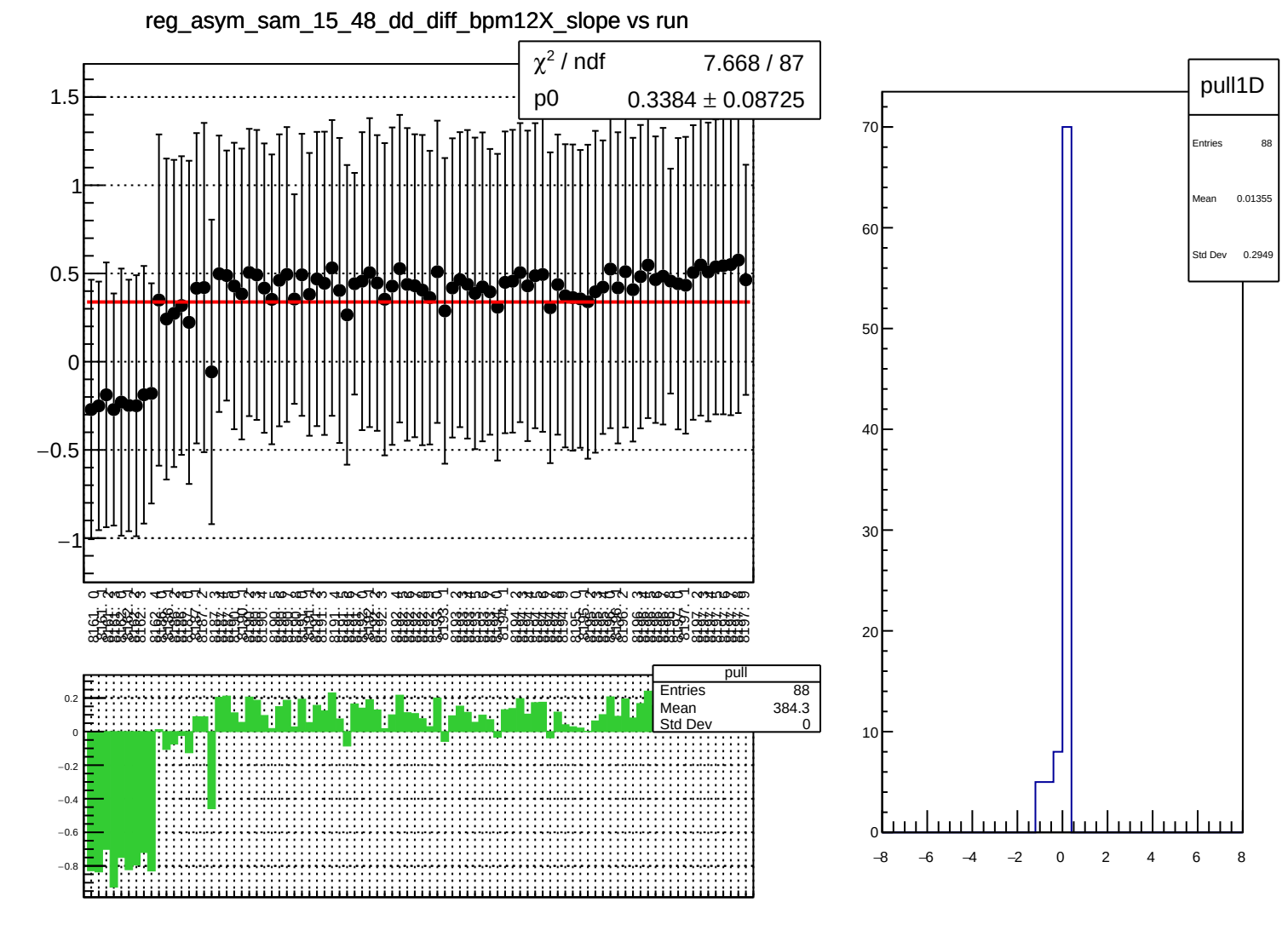

pull1D
Entries 88
Mean 0.001896
Std Dev 0.1631

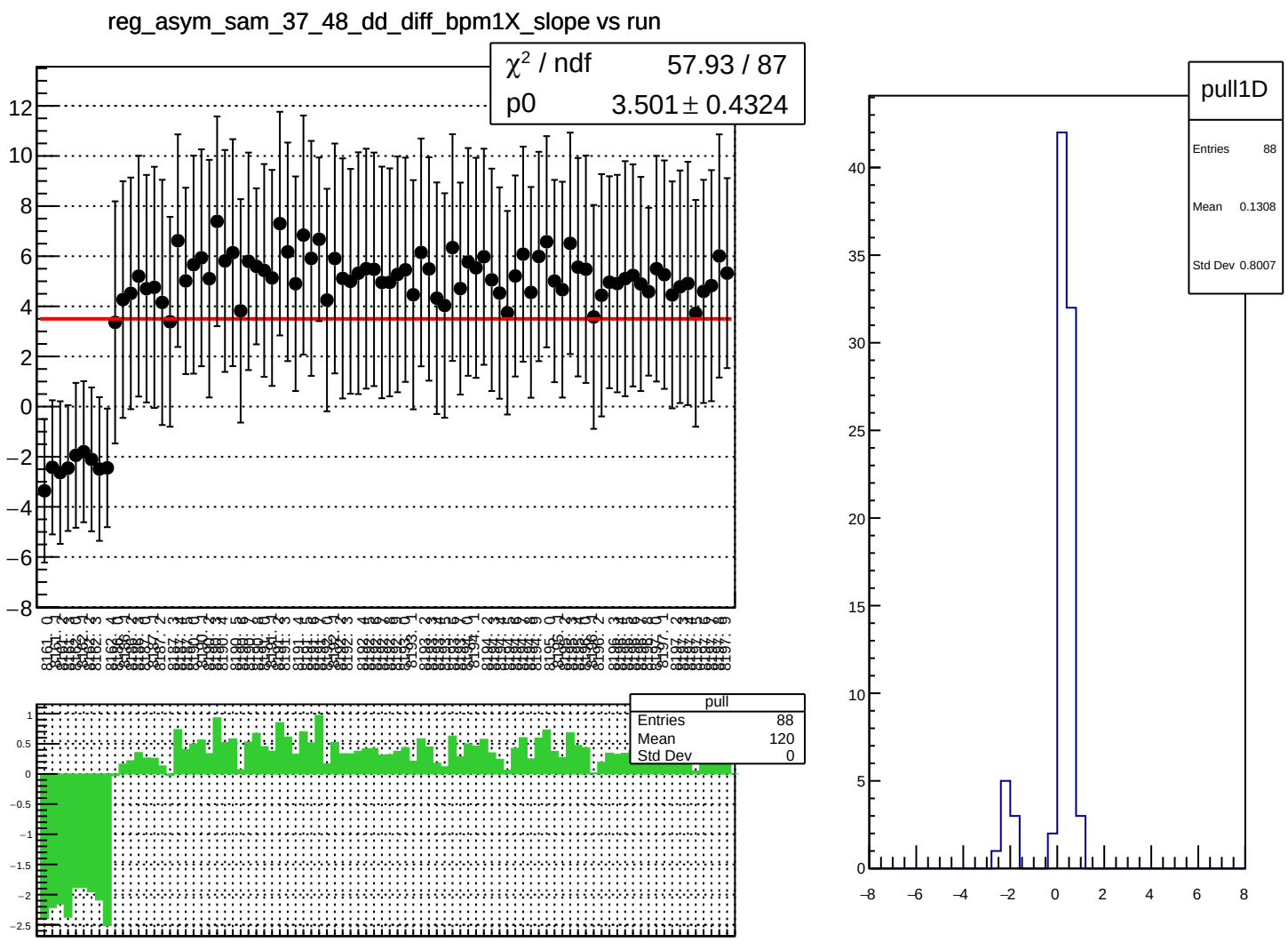

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.908 / 87
p0 6.21 ± 1.073
pull
Entries 88
Mean 153.2
Std Dev 0
pull1D
Entries 88
Mean 0.04131
Std Dev 0.333

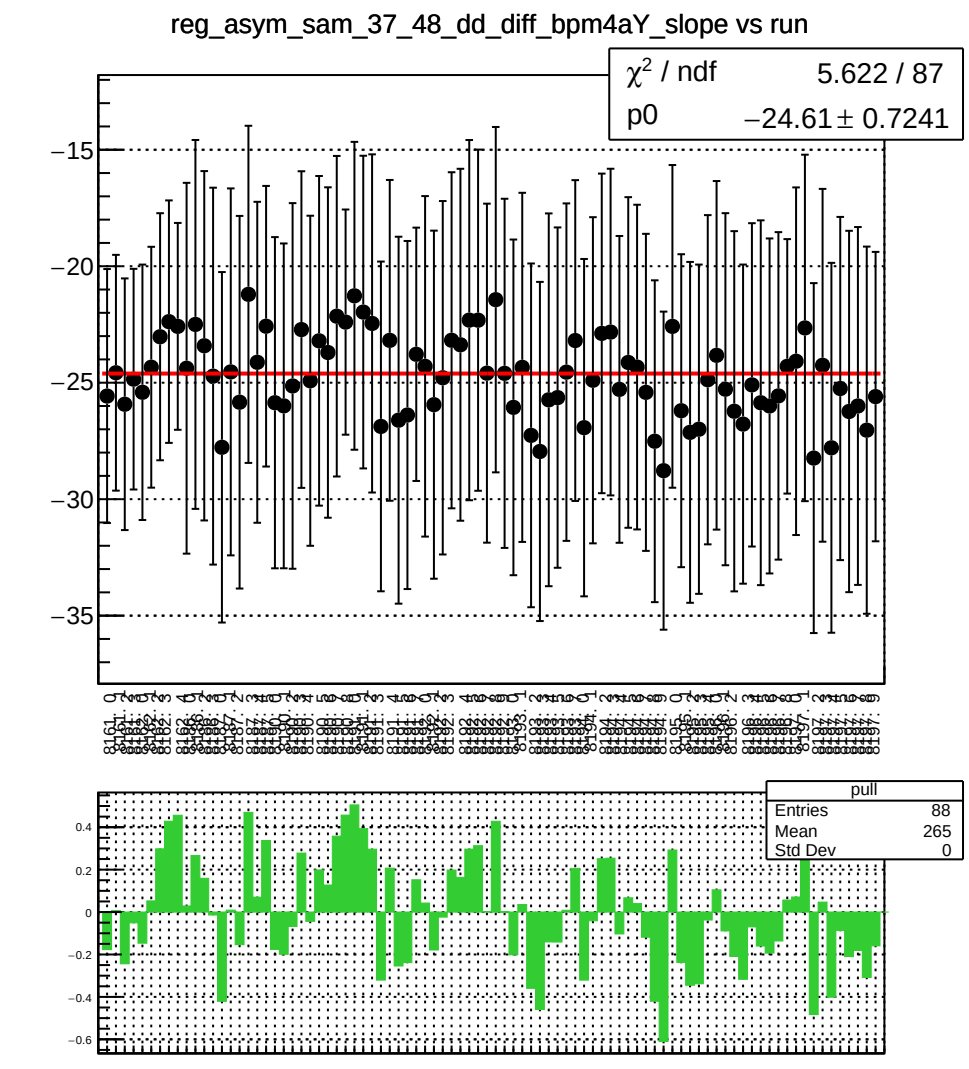

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.7915 / 87
p0 −15.17 ± 1.789
pull
Entries 88
Mean 243.1
Std Dev 0
pull1D
Entries 88
Mean −0.005655
Std Dev 0.09467

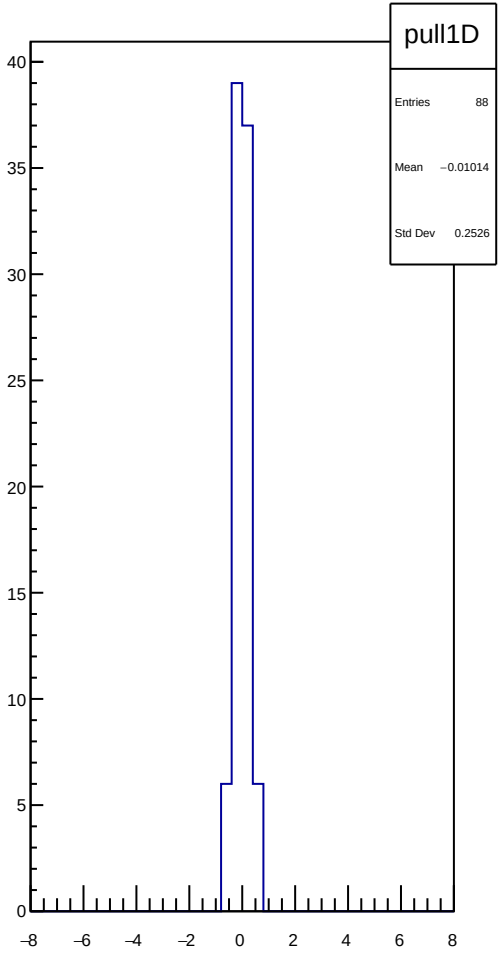

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.613 / 87
p0 50.12 ± 1.074
pull
Entries 88
Mean 141.3
Std Dev 0
pull1D
Entries 88
Mean −0.03147
Std Dev 0.2723

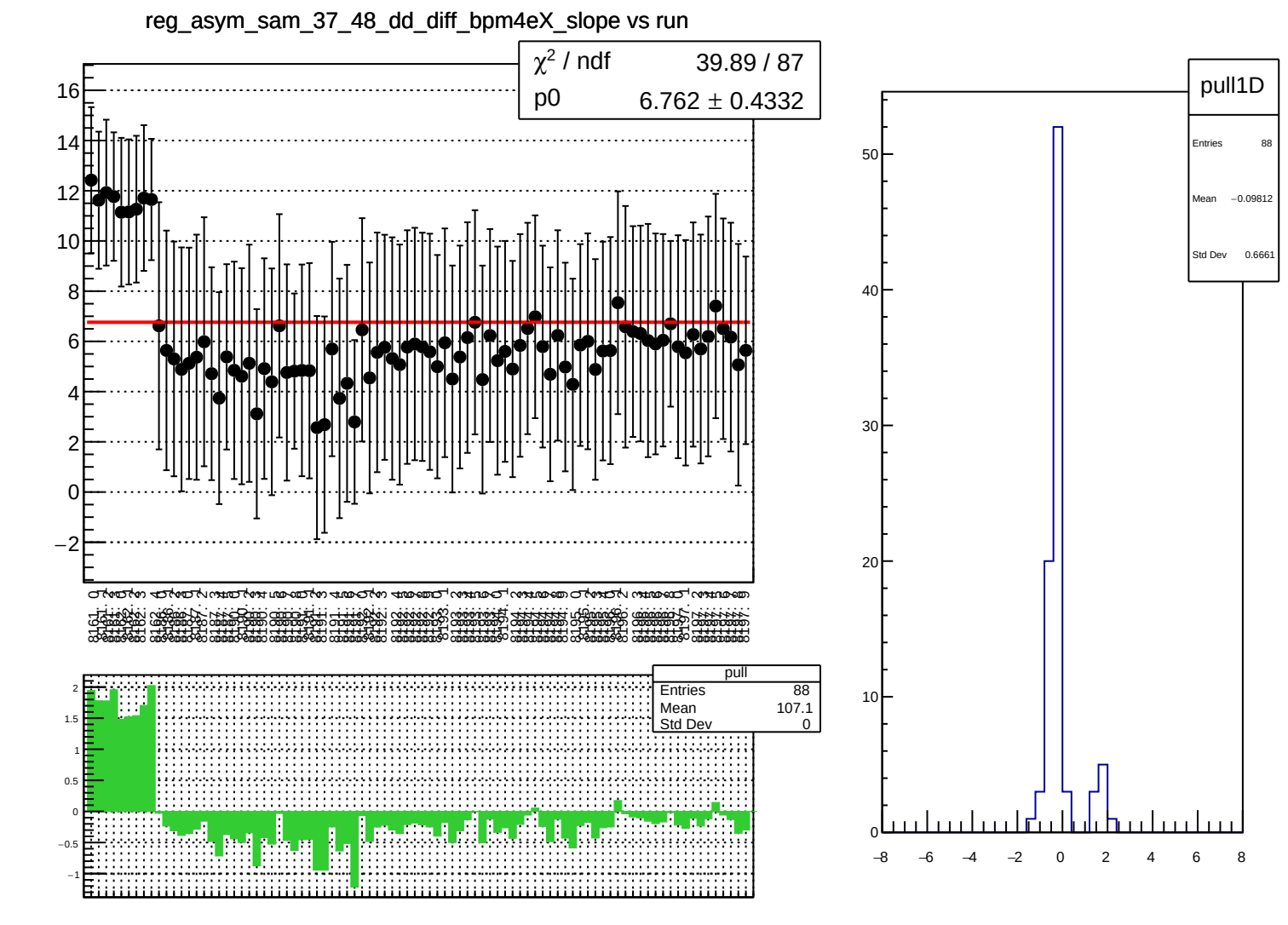

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.059 / 87
p0 −17.65 ± 1.928
pull
Entries 88
Mean 238.8
Std Dev 0
pull1D
Entries 88
Mean 0.007182
Std Dev 0.1095

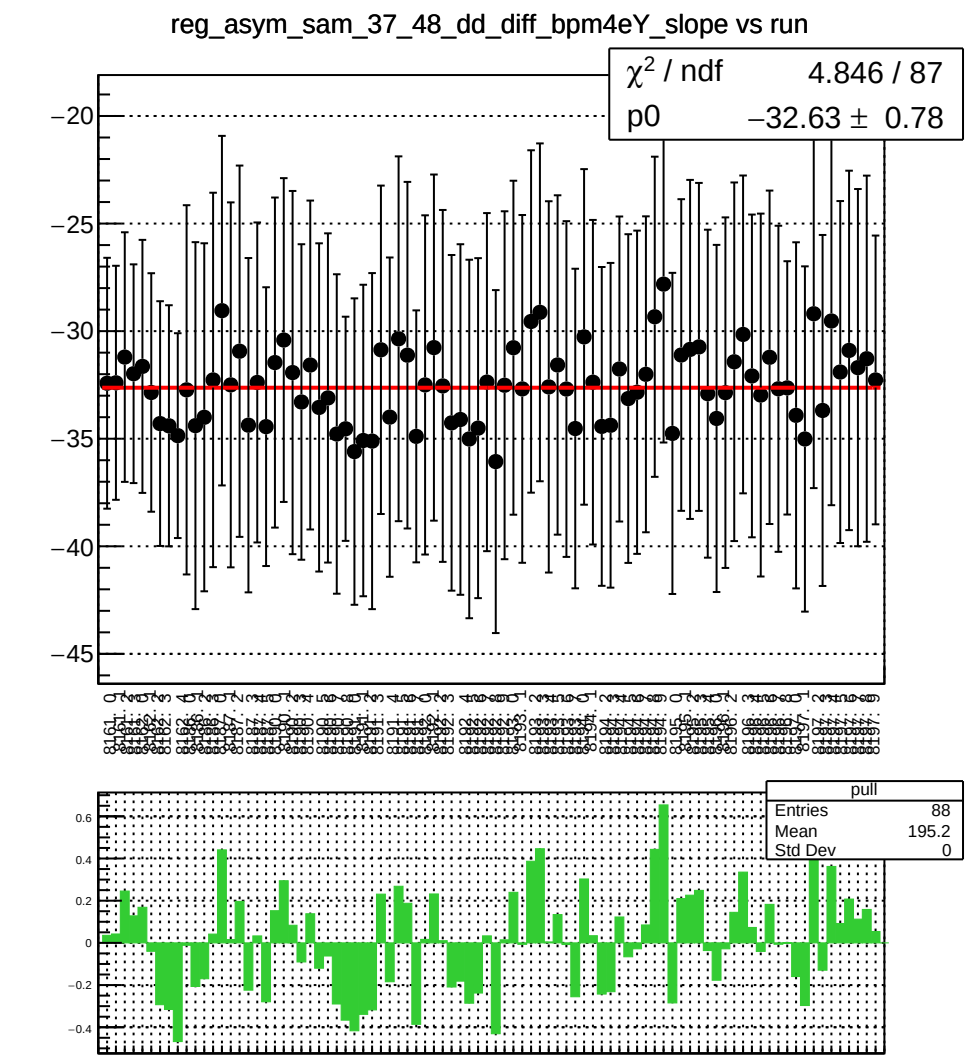

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.668 / 87
p0 0.3384 ± 0.08725
pull
Entries 88
Mean 384.3
Std Dev 0
pull1D
Entries 88
Mean 0.01355
Std Dev 0.2949

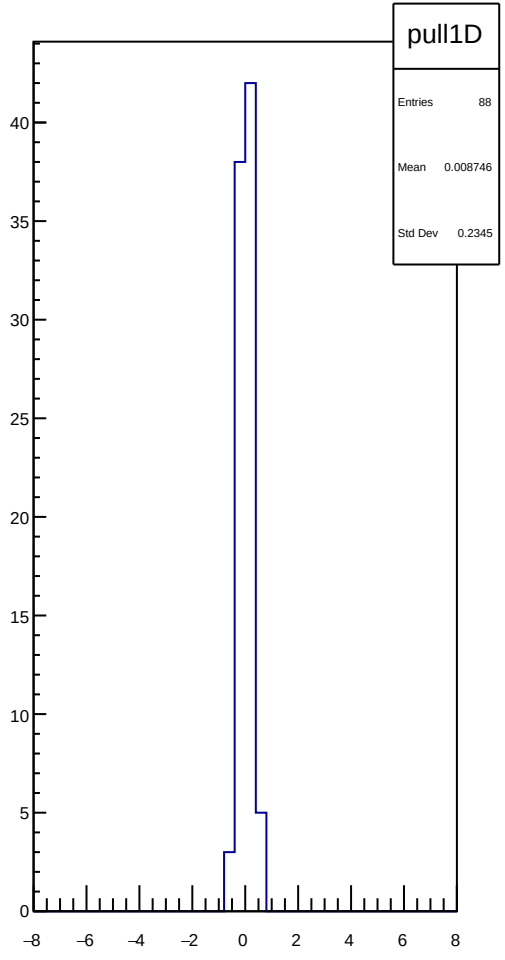

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 57.93 / 87
p0 3.501 ± 0.4324
pull
Entries 88
Mean 120
Std Dev 0
pull1D
Entries 88
Mean 0.1308
Std Dev 0.8007

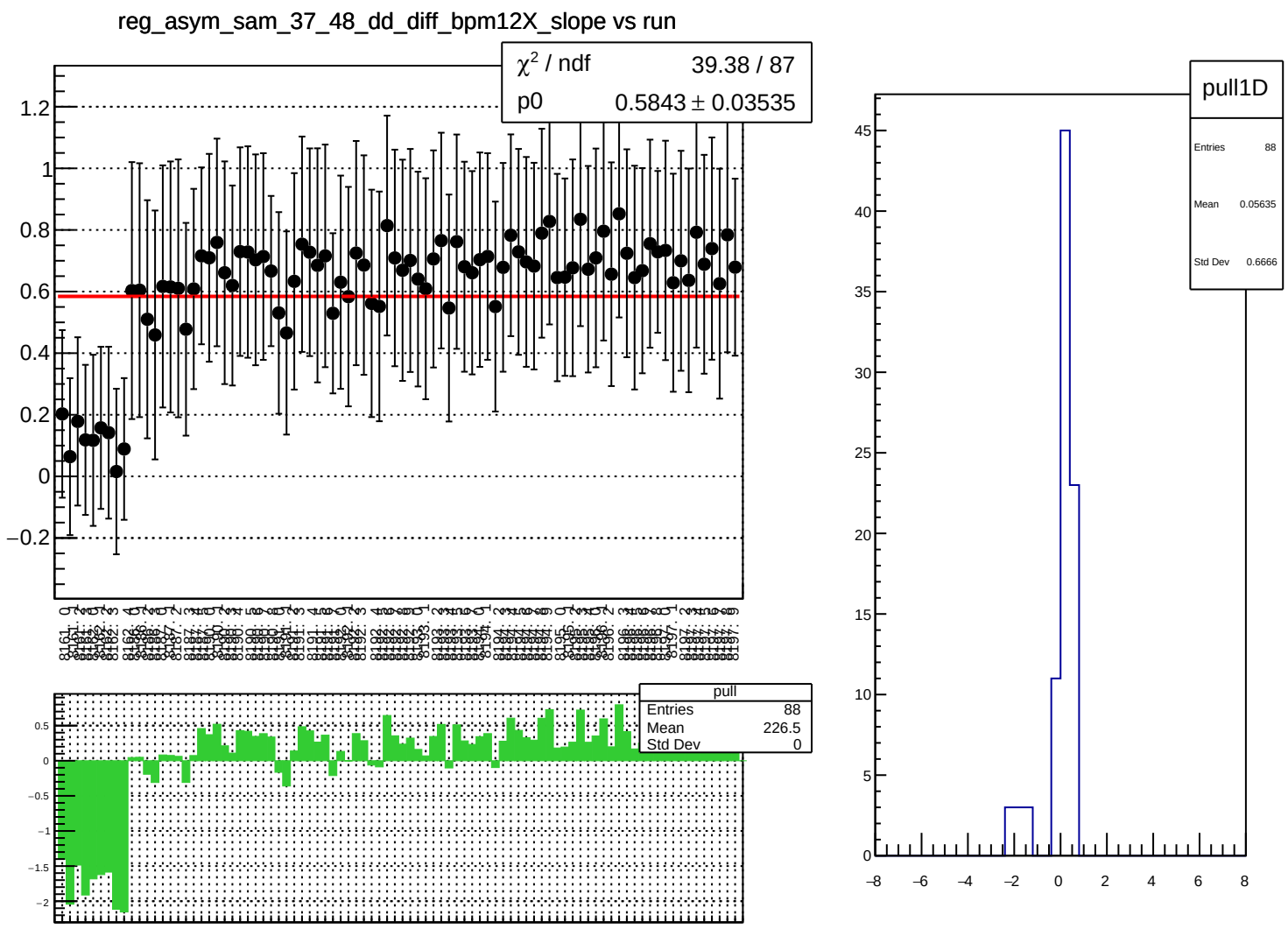

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.622 / 87
p0 −24.61 ± 0.7241
pull
Entries 88
Mean 265
Std Dev 0

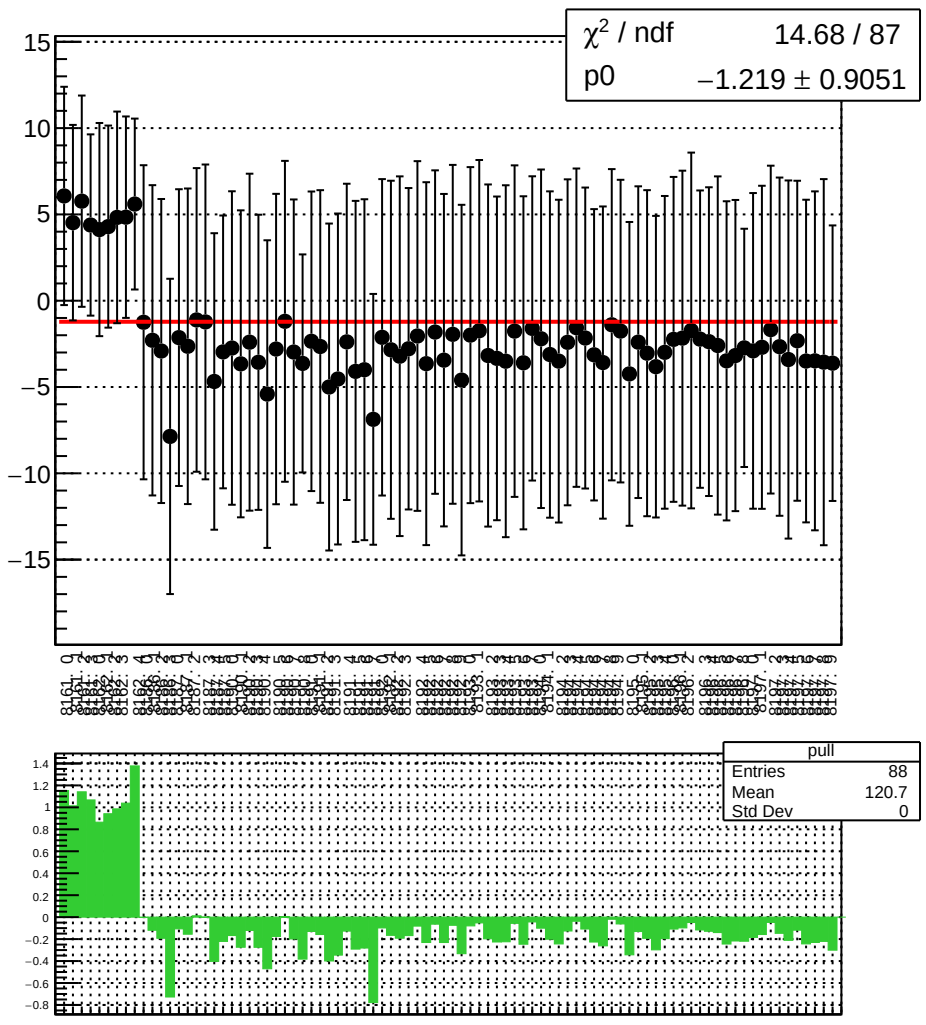

pull1D
Entries 88
Mean −0.01014
Std Dev 0.2526

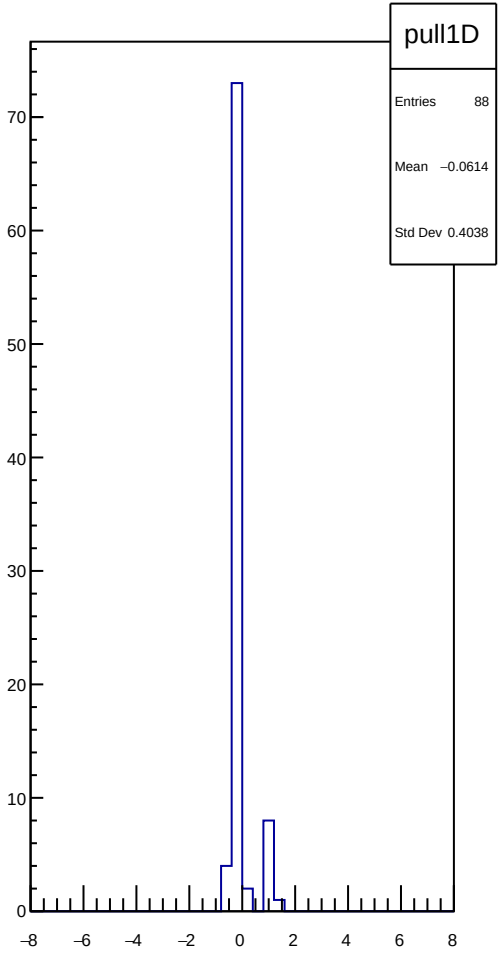

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.89 / 87
p0 6.762 ± 0.4332
pull
Entries 88
Mean 107.1
Std Dev 0
pull1D
Entries 88
Mean −0.09812
Std Dev 0.6661

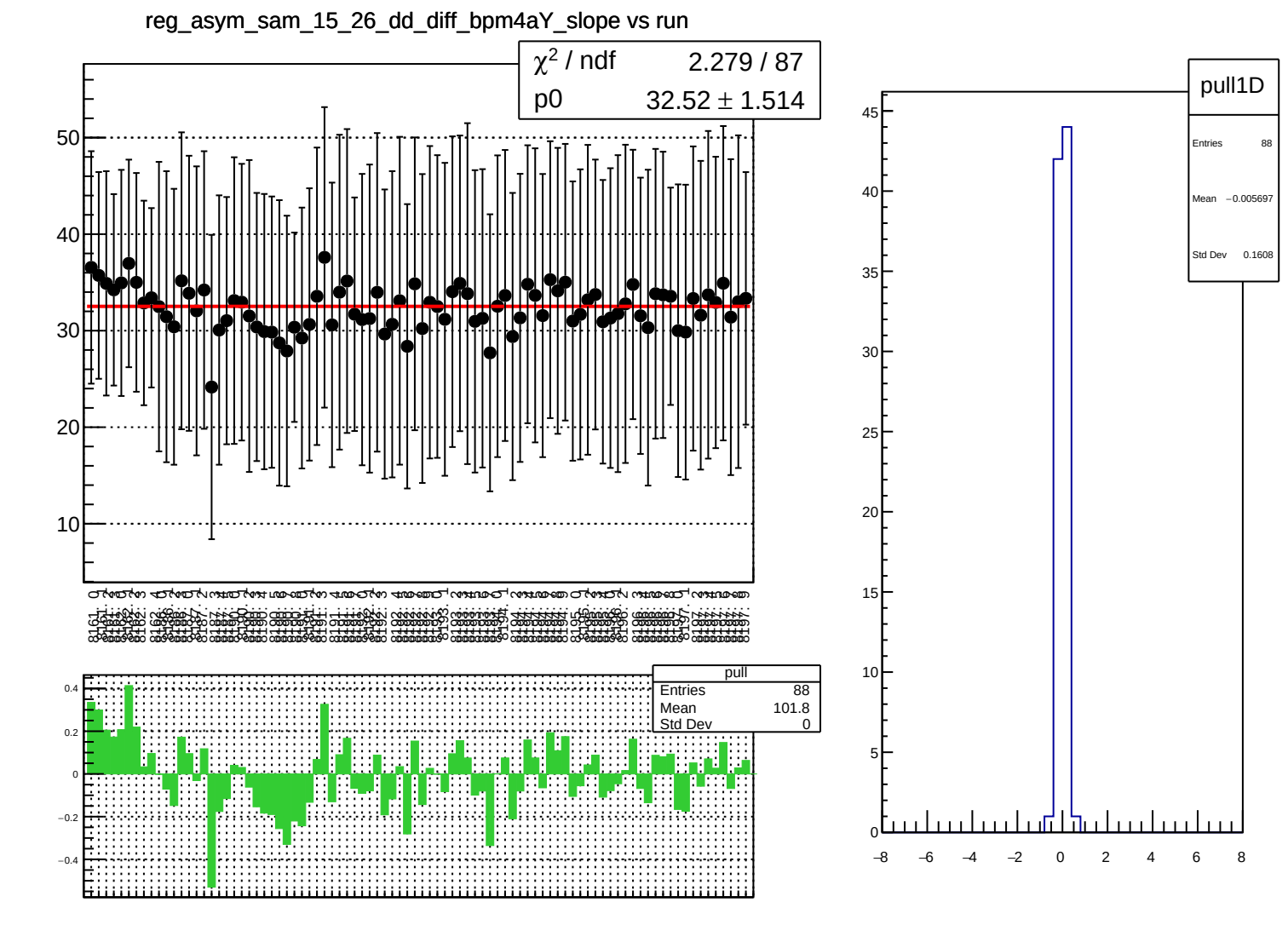

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.846 / 87
p0 −32.63 ± 0.78
pull
Entries 88
Mean 195.2
Std Dev 0

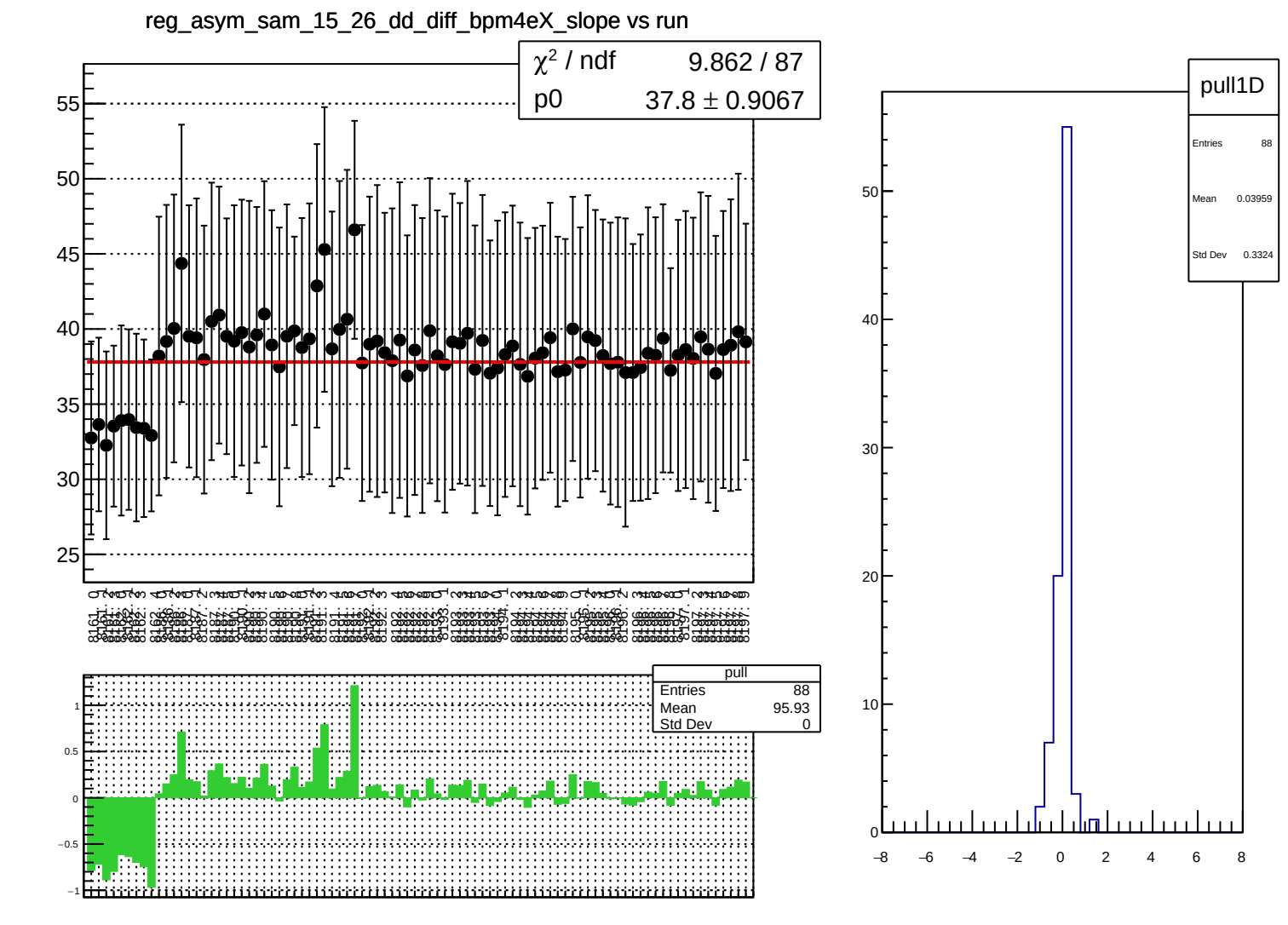

pull1D
Entries 88
Mean 0.008746
Std Dev 0.2345

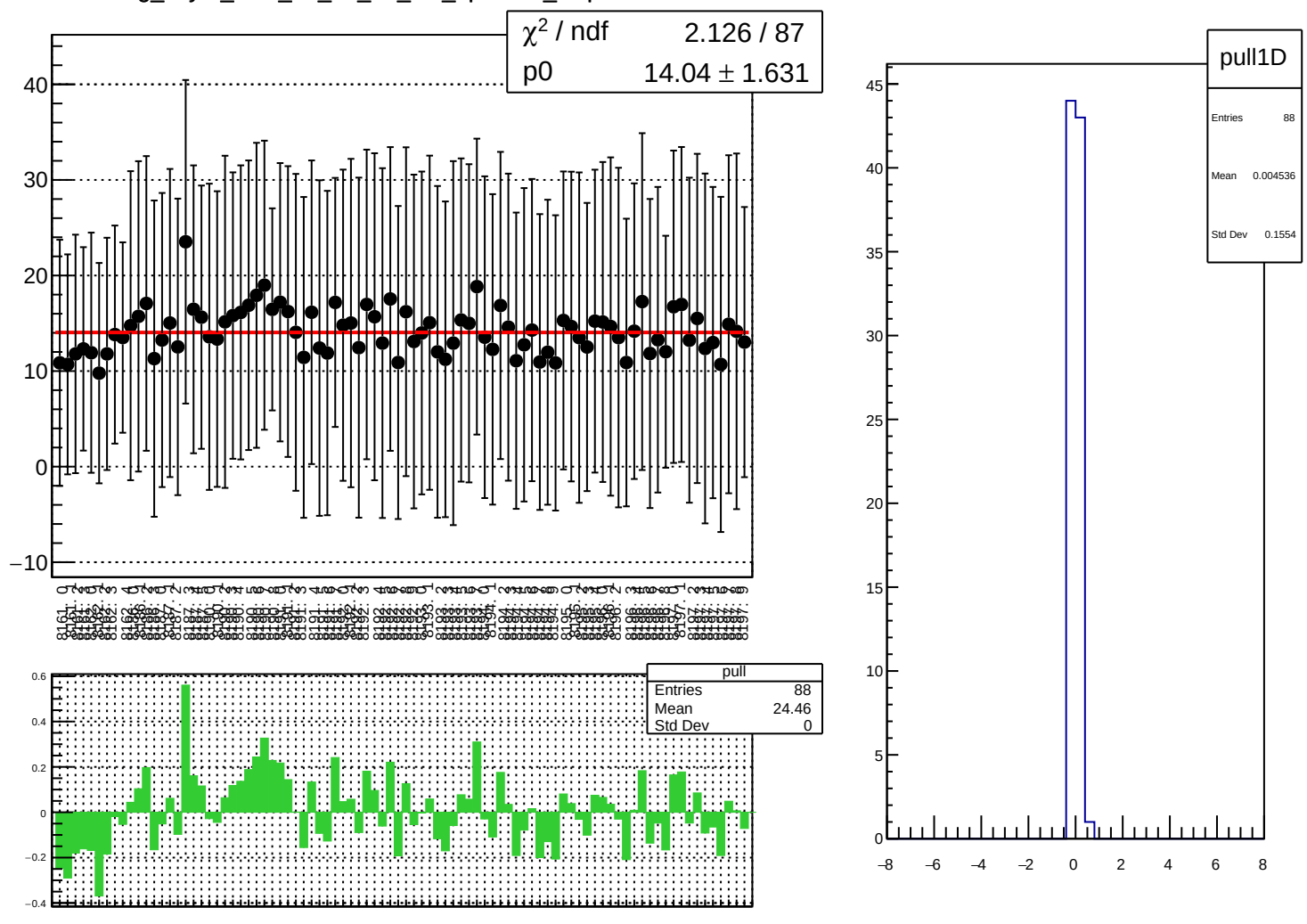

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 39.38 / 87
p0 0.5843 ± 0.03535
pull
Entries 88
Mean 226.5
Std Dev 0
pull1D
Entries 88
Mean 0.05635
Std Dev 0.6666

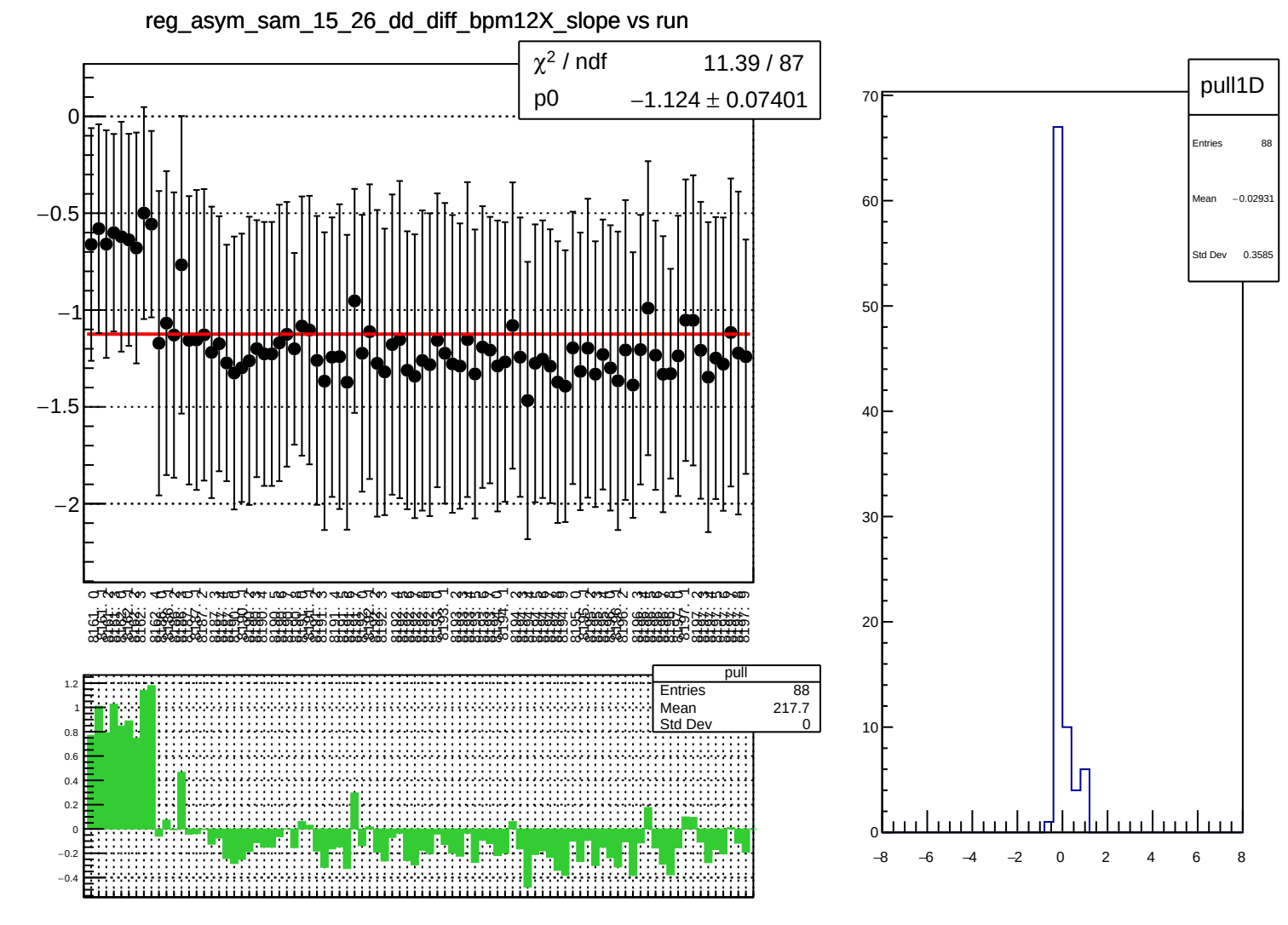

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 14.68 / 87
p0 −1.219 ± 0.9051
pull
Entries 88
Mean 120.7
Std Dev 0

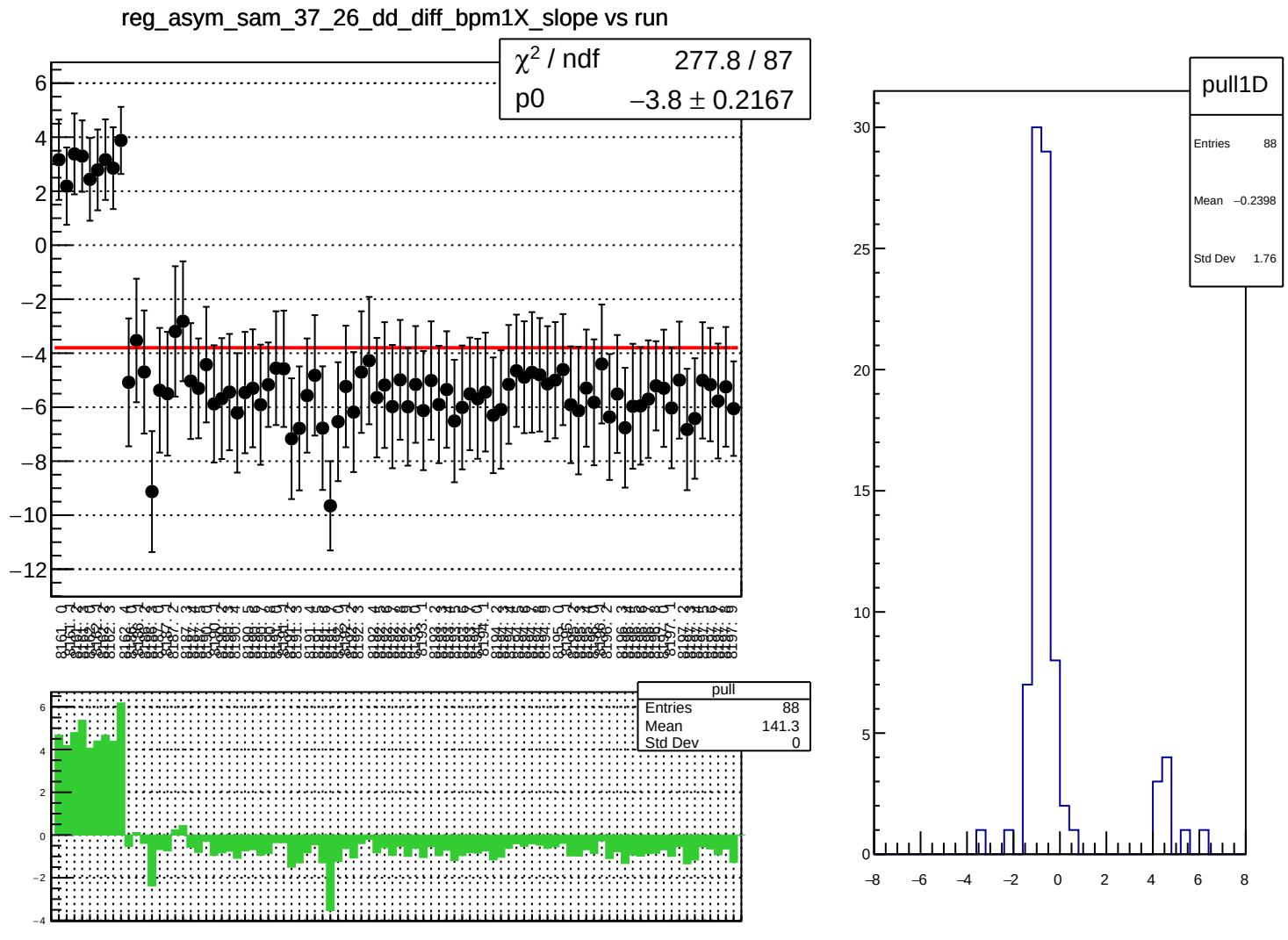

pull1D
Entries 88
Mean −0.0614
Std Dev 0.4038

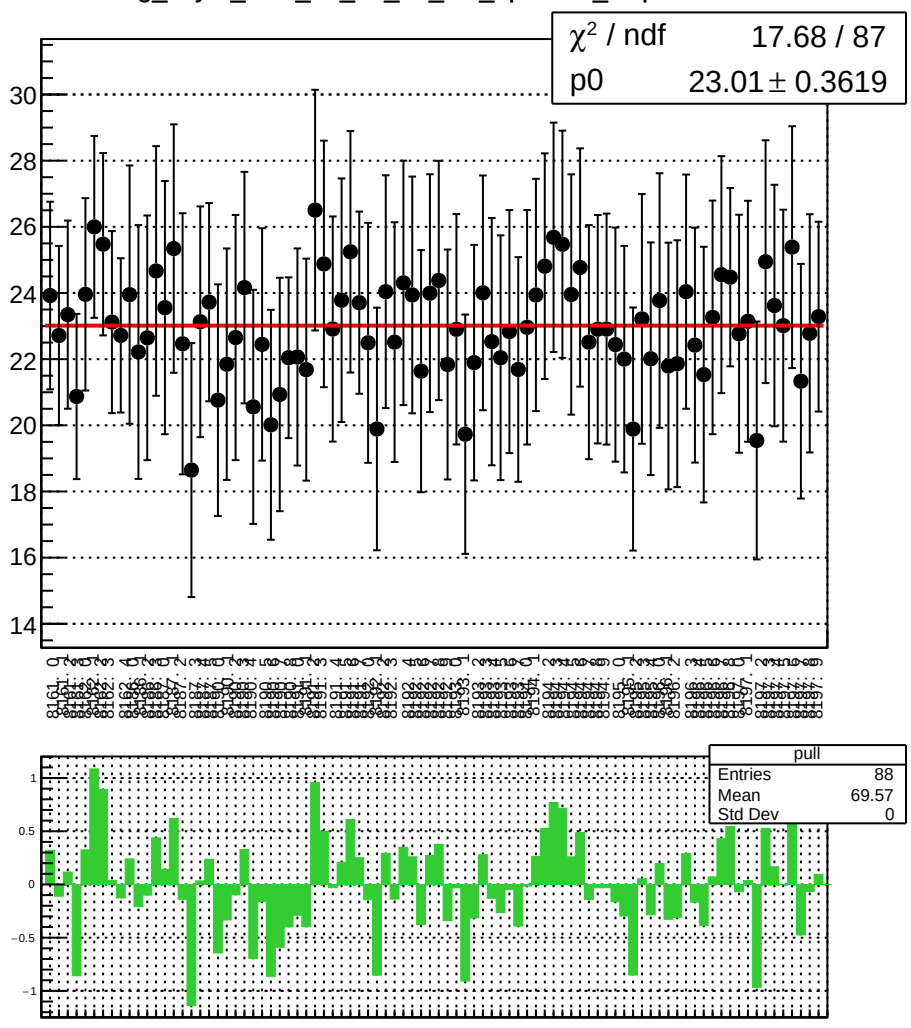

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.279 / 87
p0 32.52 ± 1.514
pull
Entries 88
Mean 101.8
Std Dev 0
pull1D
Entries 88
Mean −0.005697
Std Dev 0.1608

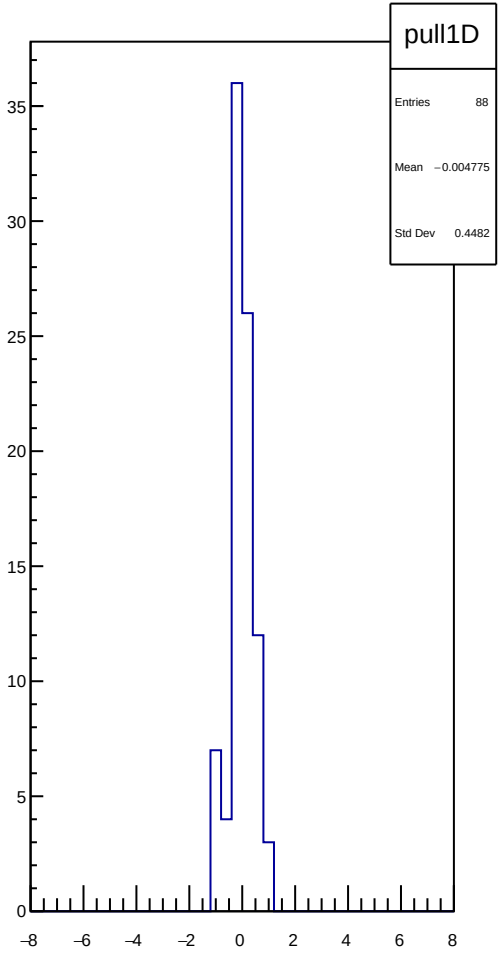

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.862 / 87
p0 37.8 ± 0.9067
pull
Entries 88
Mean 95.93
Std Dev 0
pull1D
Entries 88
Mean 0.03959
Std Dev 0.3324

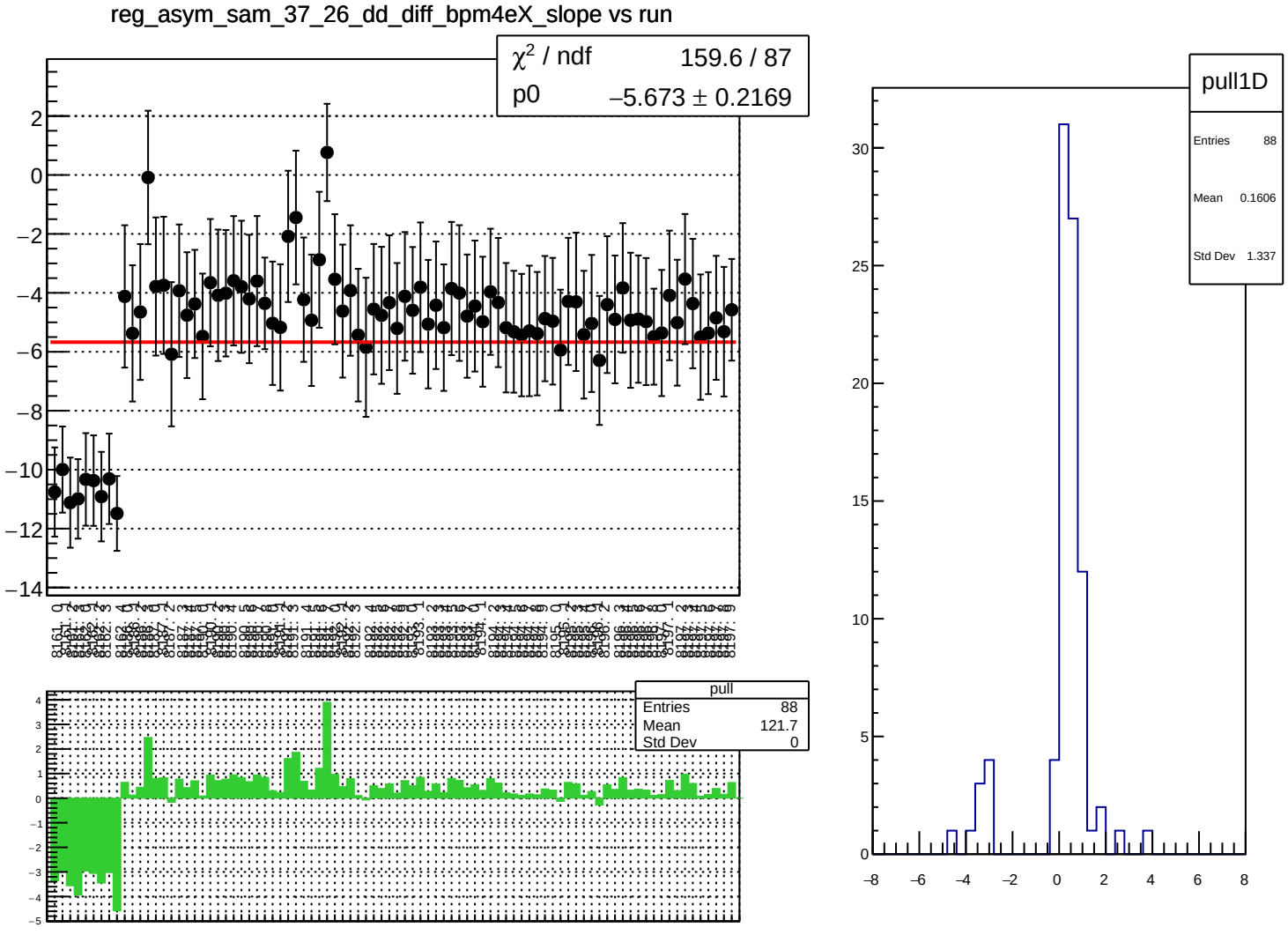

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.126 / 87
p0 14.04 ± 1.631
pull
Entries 88
Mean 24.46
Std Dev 0
pull1D
Entries 88
Mean 0.004536
Std Dev 0.1554

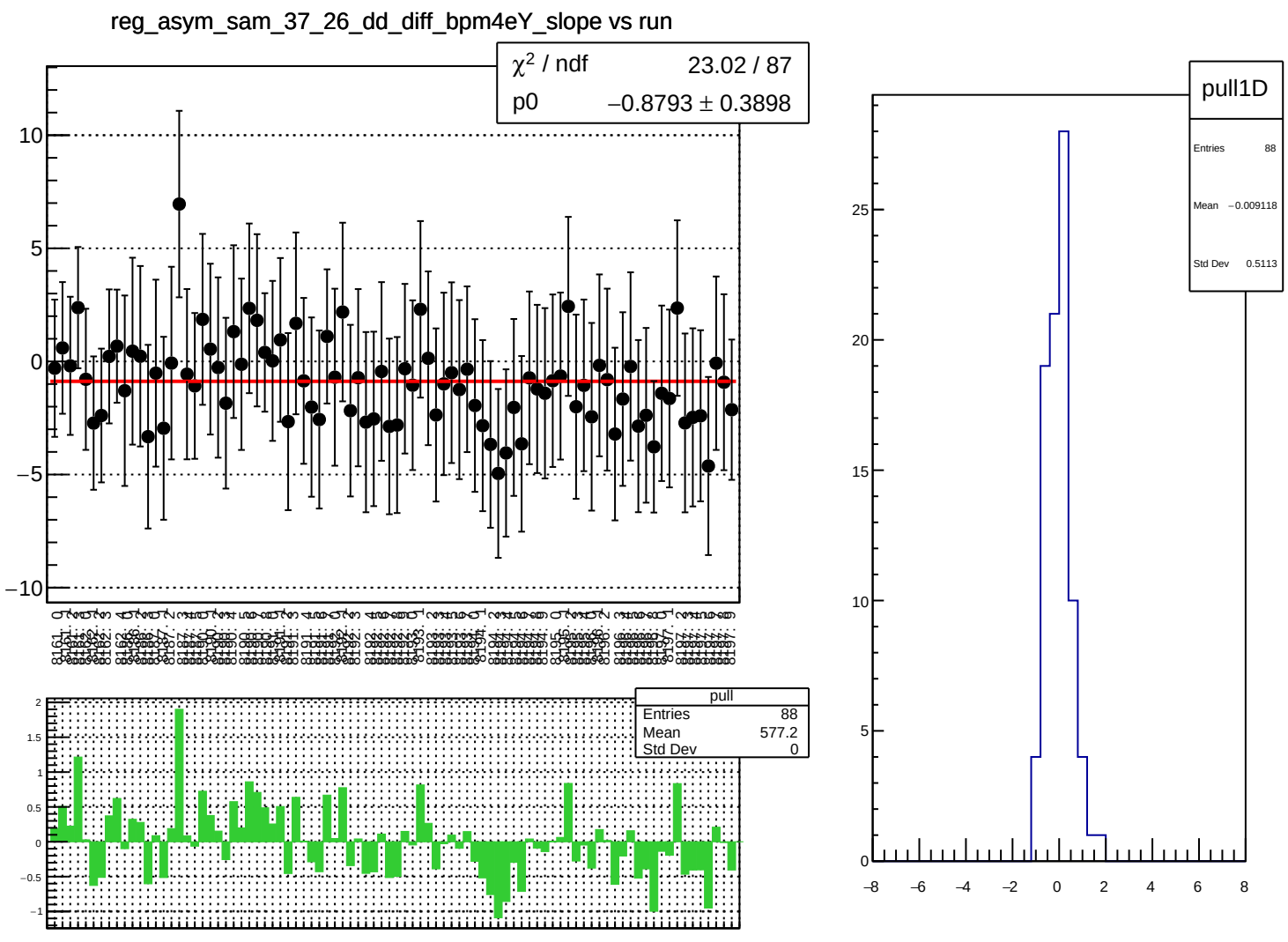

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 11.39 / 87
p0 −1.124 ± 0.07401
pull
Entries 88
Mean 217.7
Std Dev 0
pull1D
Entries 88
Mean −0.02931
Std Dev 0.3585

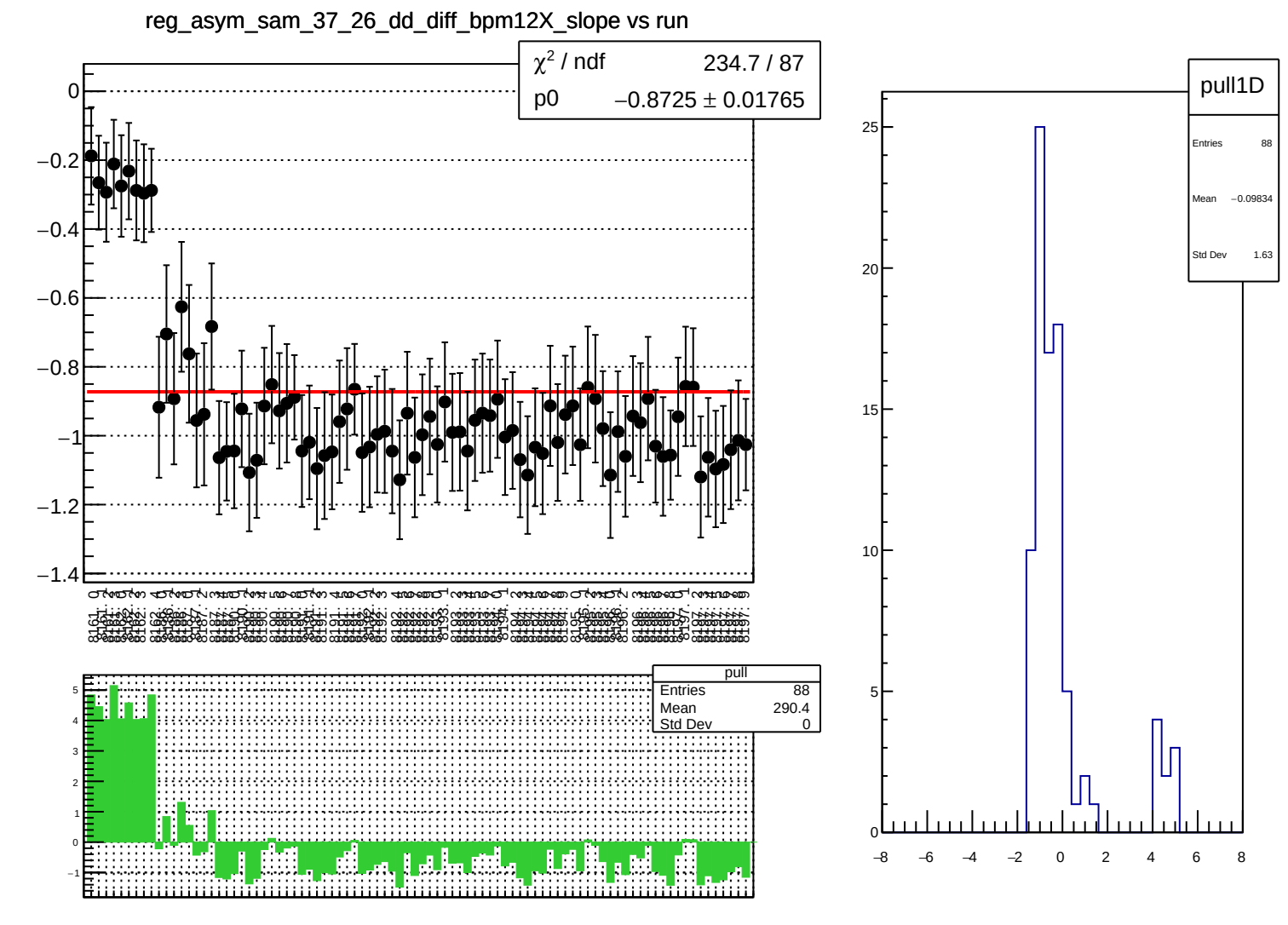

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 277.8 / 87
p0 −3.8 ± 0.2167
pull
Entries 88
Mean 141.3
Std Dev 0
pull1D
Entries 88
Mean −0.2398
Std Dev 1.76

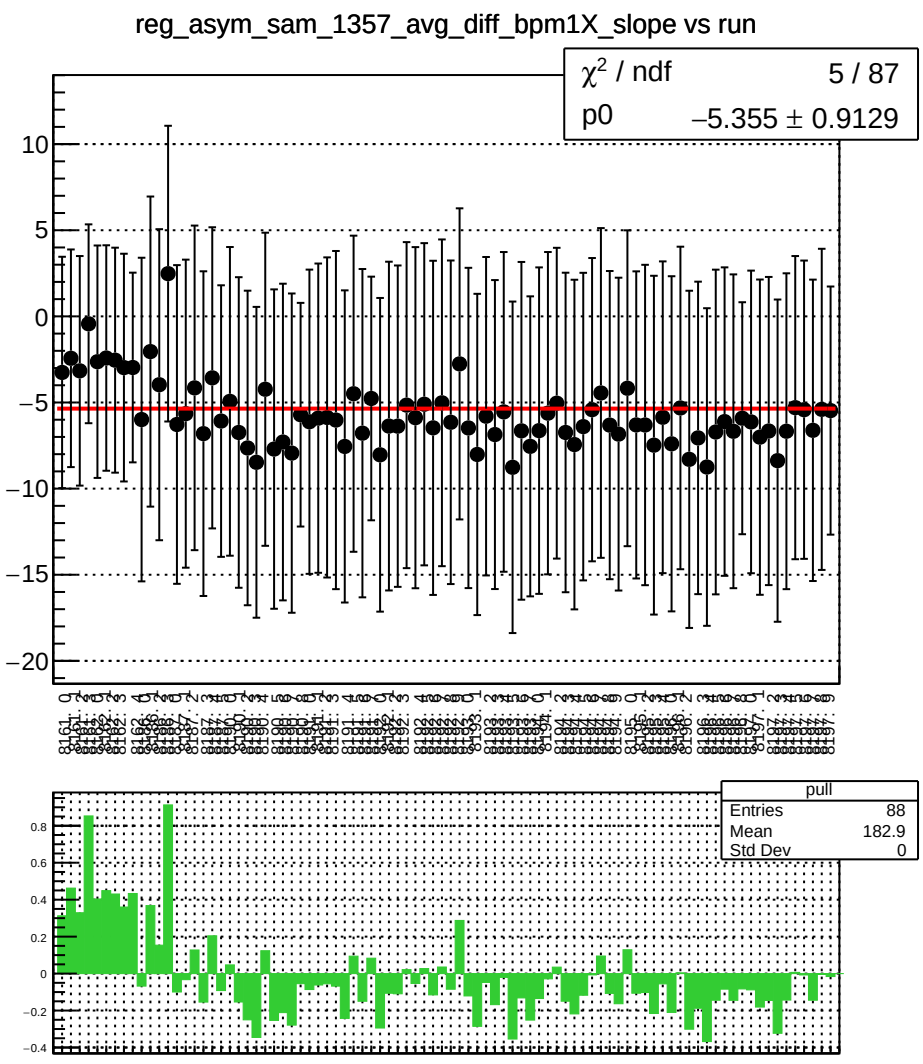

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.68 / 87
p0 23.01 ± 0.3619
pull
Entries 88
Mean 69.57
Std Dev 0

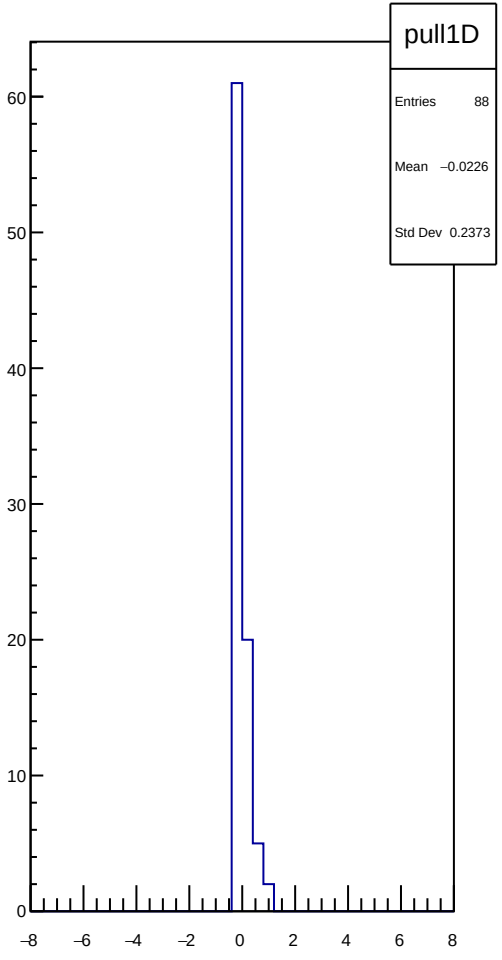

pull1D
Entries 88
Mean −0.004775
Std Dev 0.4482

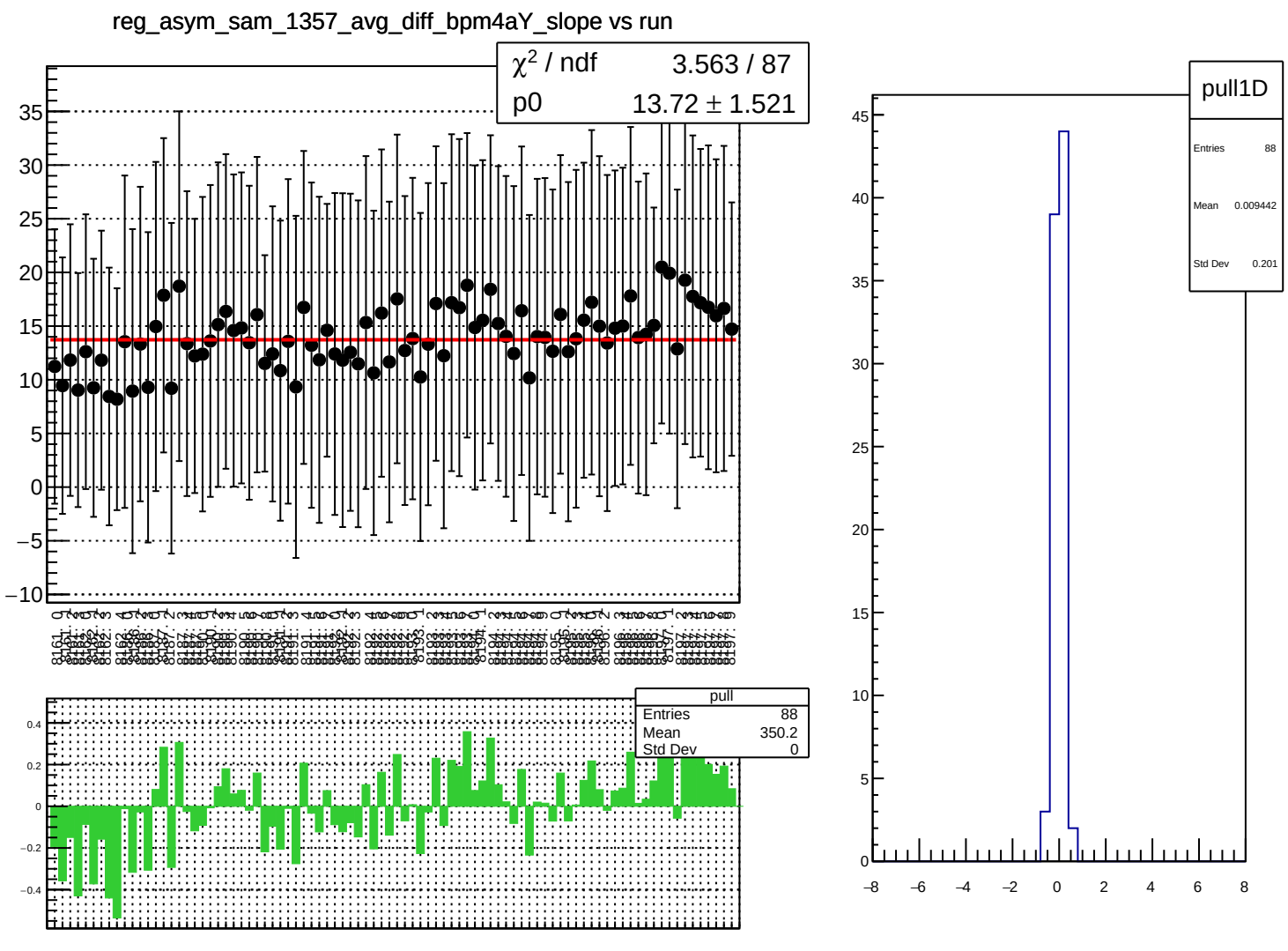

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 159.6 / 87
p0 −5.673 ± 0.2169
pull
Entries 88
Mean 121.7
Std Dev 0
pull1D
Entries 88
Mean 0.1606
Std Dev 1.337

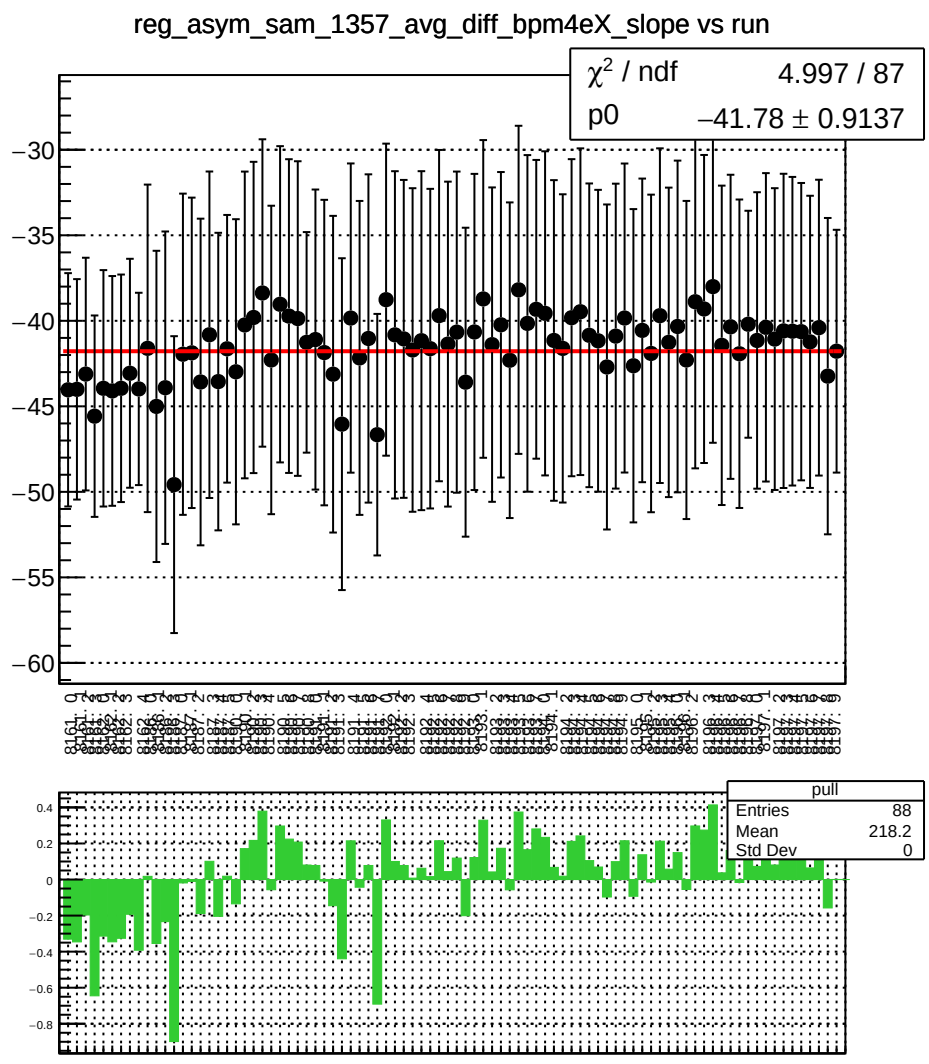

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.02 / 87
p0 −0.8793 ± 0.3898
pull
Entries 88
Mean 577.2
Std Dev 0
pull1D
Entries 88
Mean −0.009118
Std Dev 0.5113

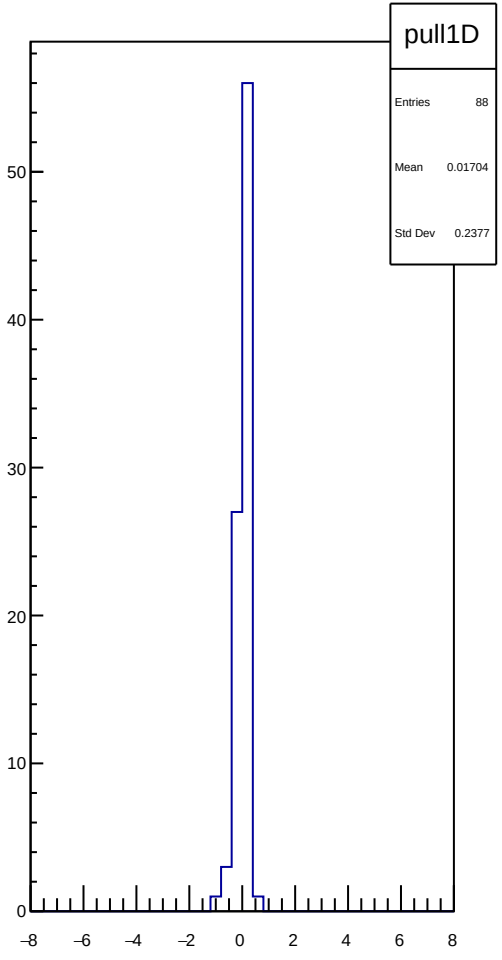

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 234.7 / 87
p0 −0.8725 ± 0.01765
pull
Entries 88
Mean 290.4
Std Dev 0
pull1D
Entries 88
Mean −0.09834
Std Dev 1.63

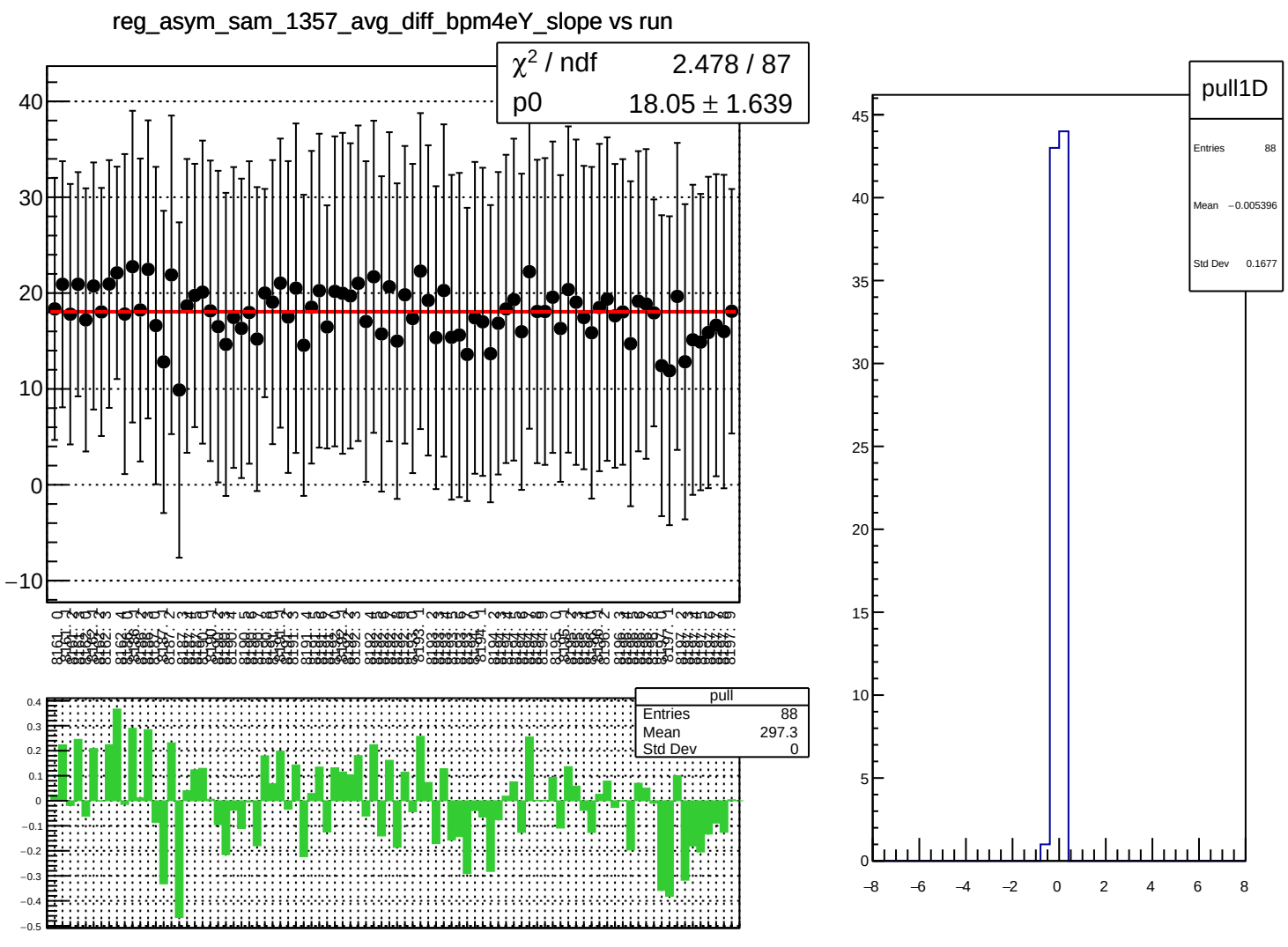

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 5 / 87
p0 −5.355 ± 0.9129
pull
Entries 88
Mean 182.9
Std Dev 0

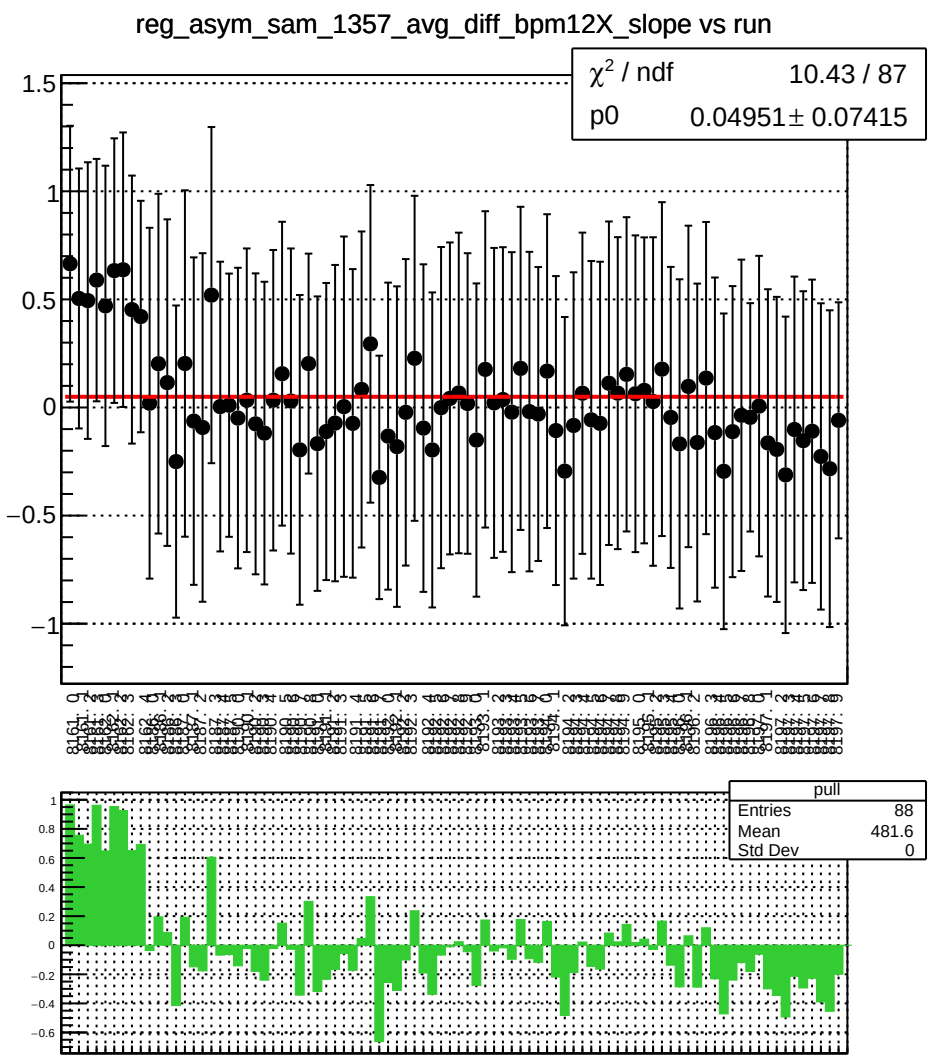

pull1D
Entries 88
Mean −0.0226
Std Dev 0.2373

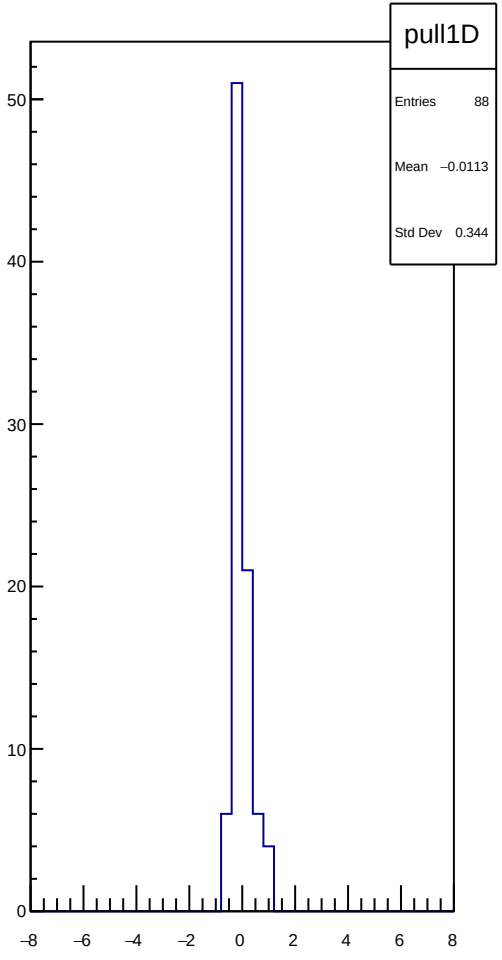

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.563 / 87
p0 13.72 ± 1.521
pull
Entries 88
Mean 350.2
Std Dev 0
pull1D
Entries 88
Mean 0.009442
Std Dev 0.201

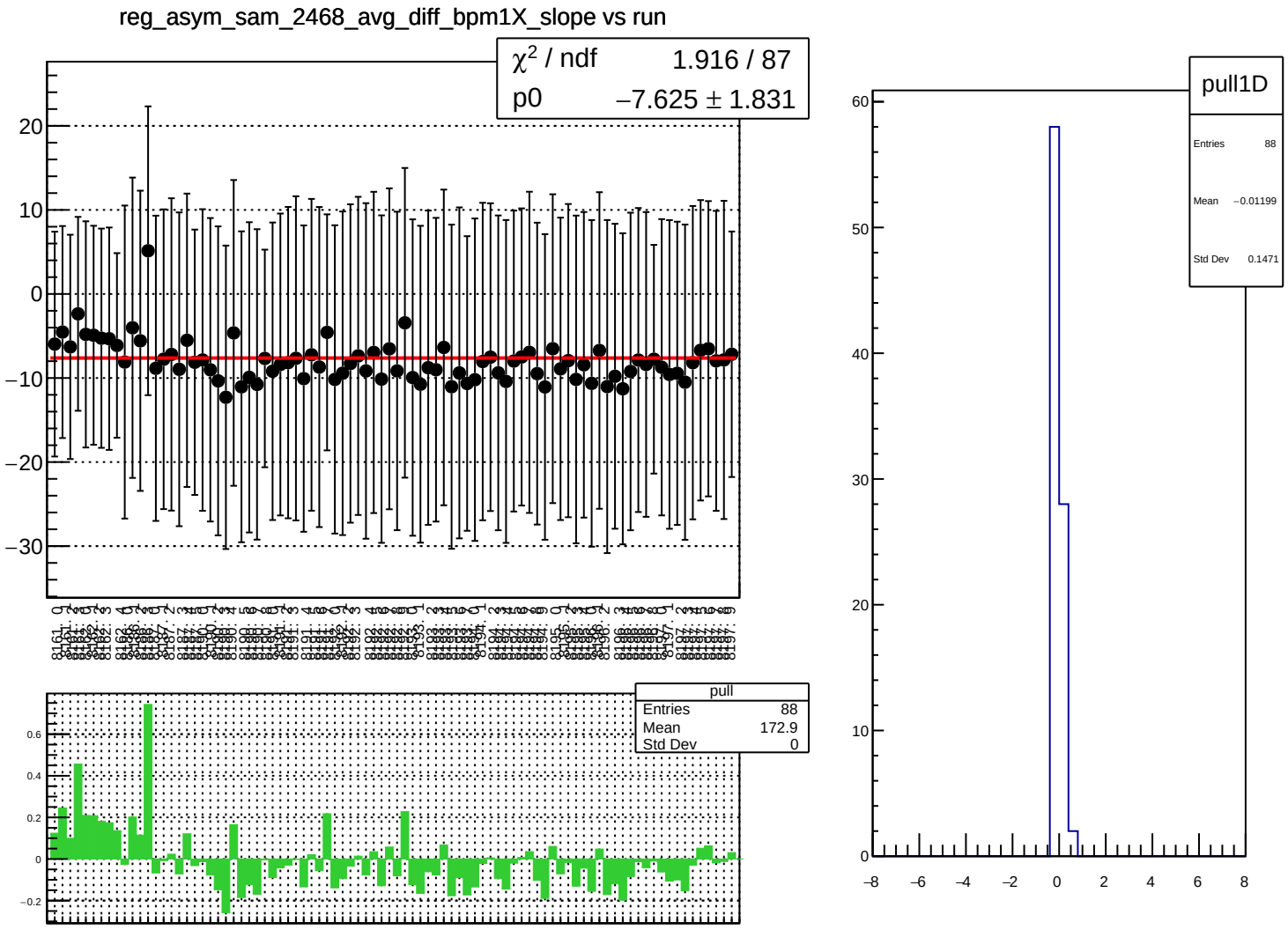

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.997 / 87
p0 −41.78 ± 0.9137
pull
Entries 88
Mean 218.2
Std Dev 0

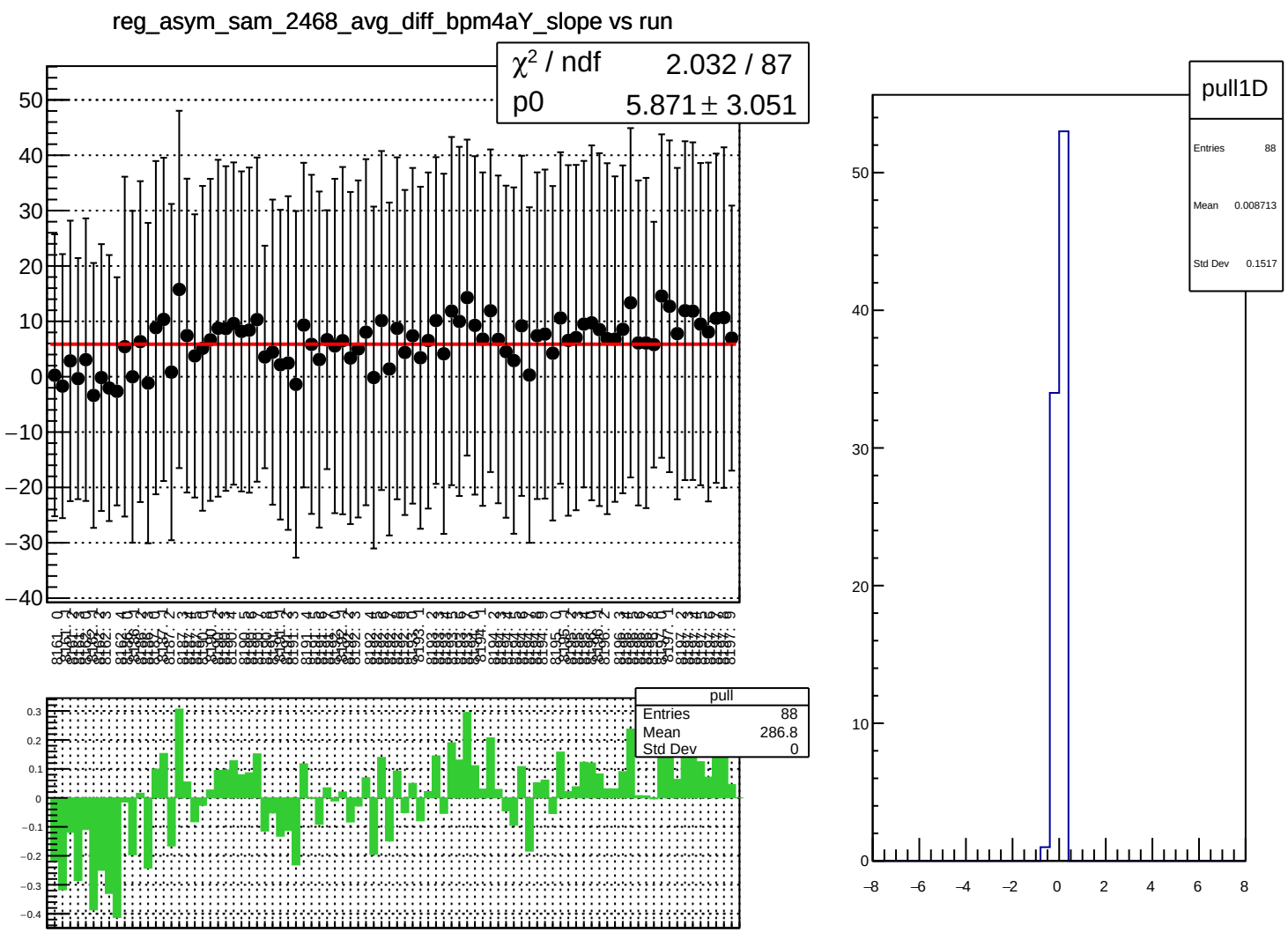

pull1D
Entries 88
Mean 0.01704
Std Dev 0.2377

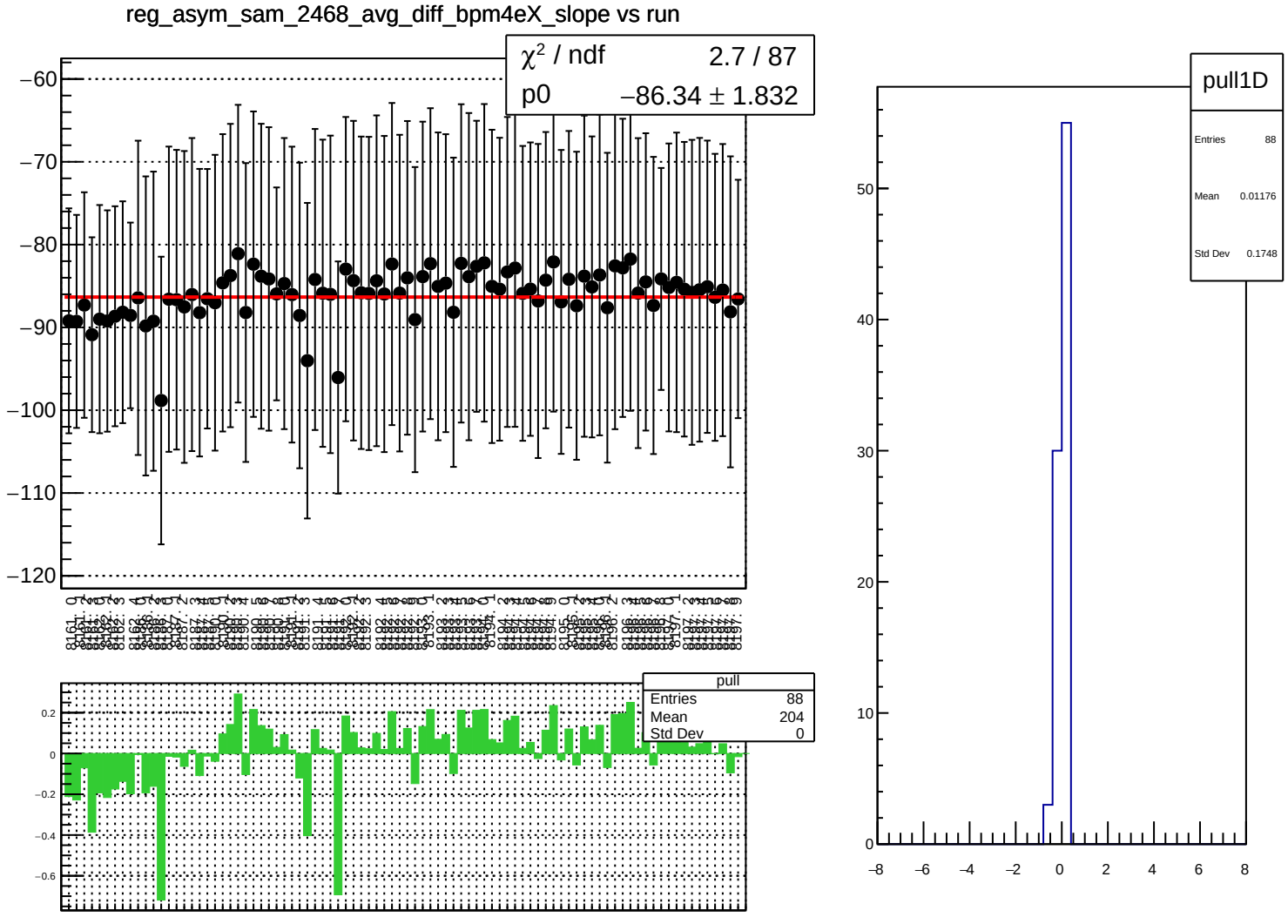

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.478 / 87
p0 18.05 ± 1.639
pull
Entries 88
Mean 297.3
Std Dev 0
pull1D
Entries 88
Mean −0.005396
Std Dev 0.1677

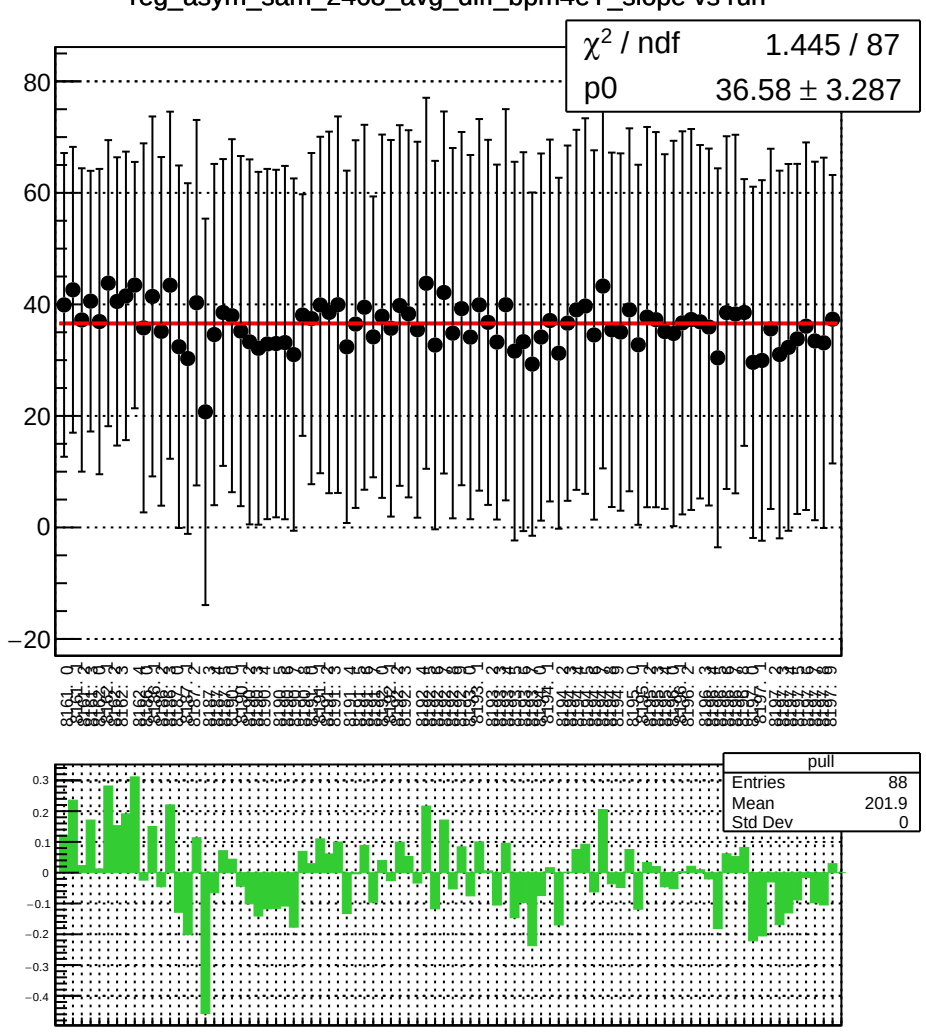

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 10.43 / 87
p0 0.04951 ± 0.07415
pull
Entries 88
Mean 481.6
Std Dev 0

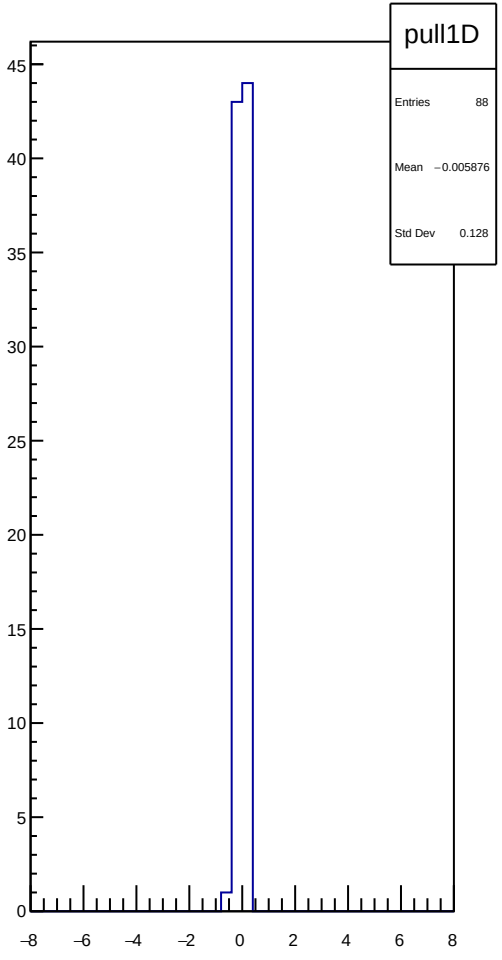

pull1D
Entries 88
Mean −0.0113
Std Dev 0.344

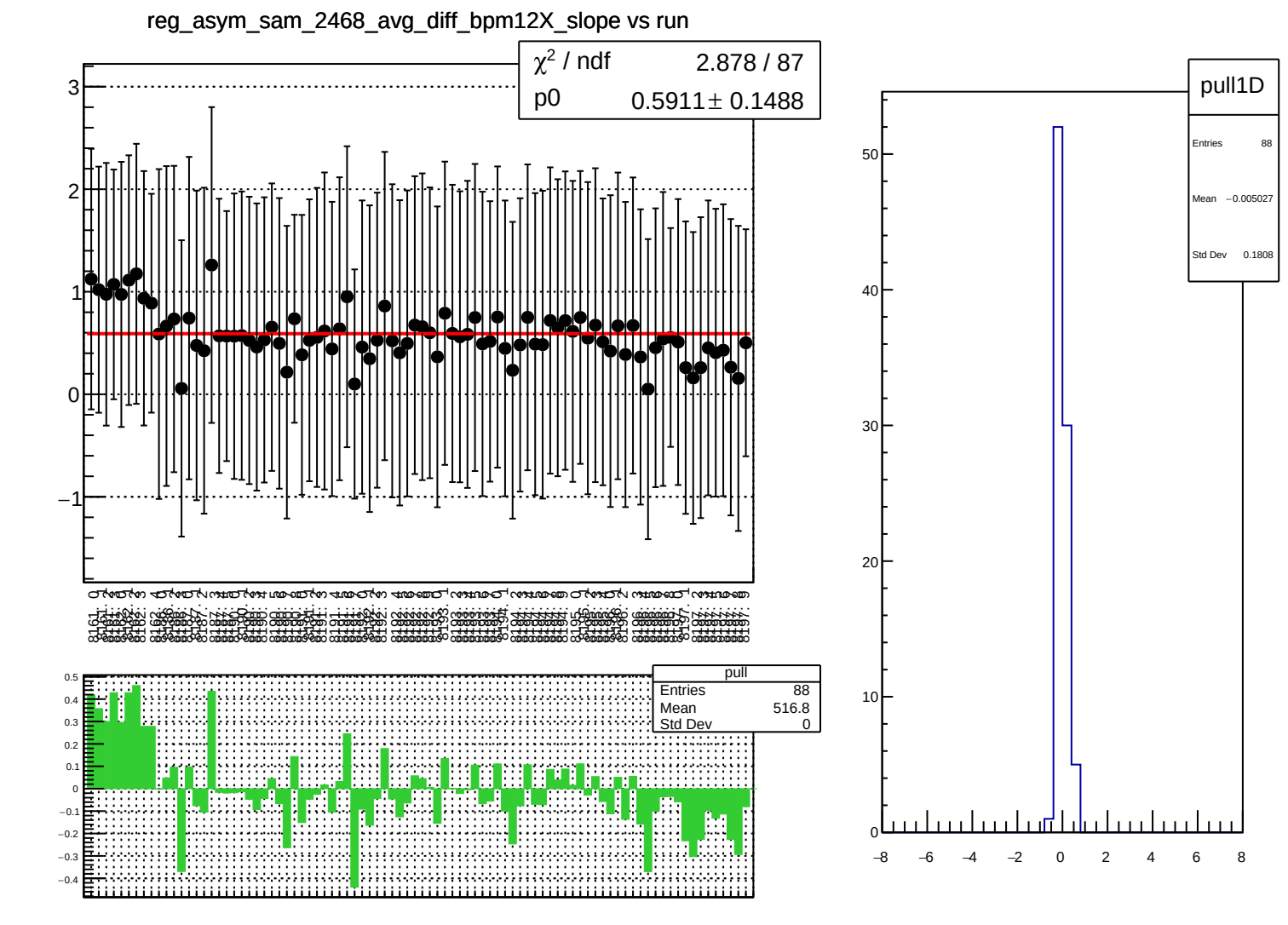

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1.916 / 87
p0 −7.625 ± 1.831
pull
Entries 88
Mean 172.9
Std Dev 0
pull1D
Entries 88
Mean −0.01199
Std Dev 0.1471

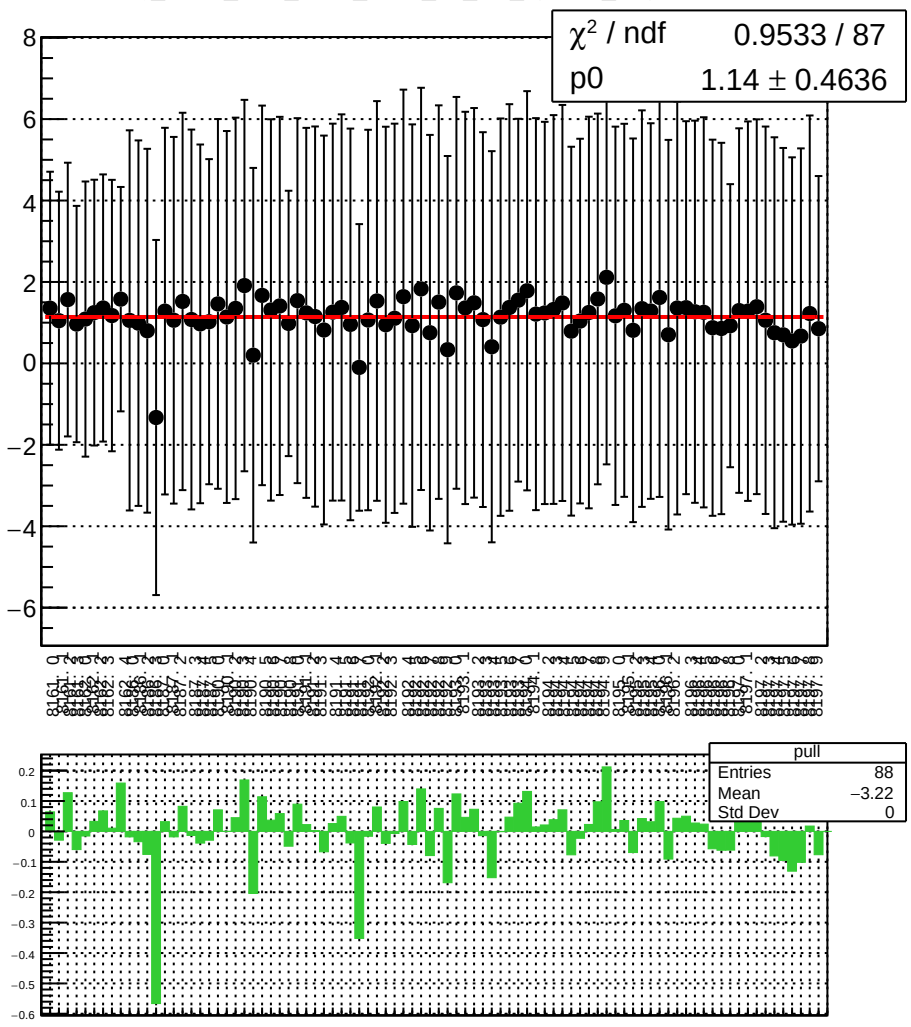

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.032 / 87
p0 5.871 ± 3.051
pull
Entries 88
Mean 286.8
Std Dev 0
pull1D
Entries 88
Mean 0.008713
Std Dev 0.1517

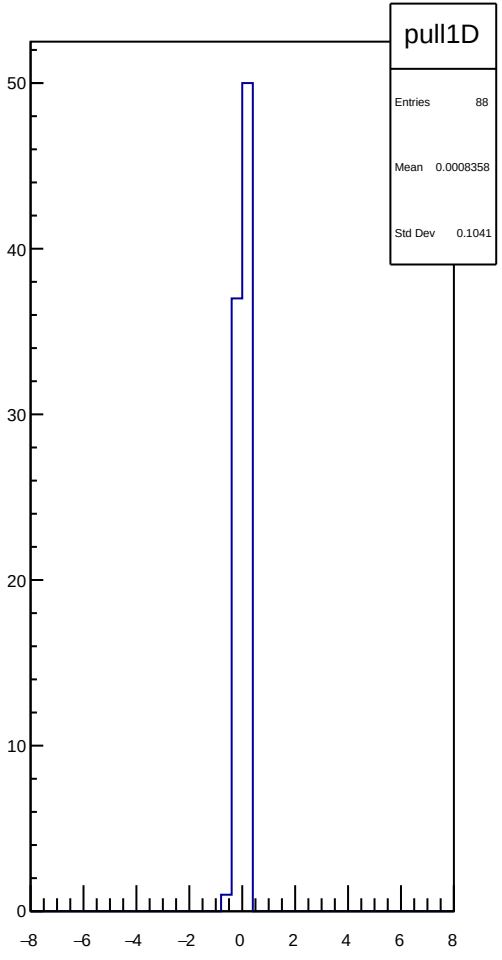

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.7 / 87
p0 −86.34 ± 1.832
pull
Entries 88
Mean 204
Std Dev 0
pull1D
Entries 88
Mean 0.01176
Std Dev 0.1748

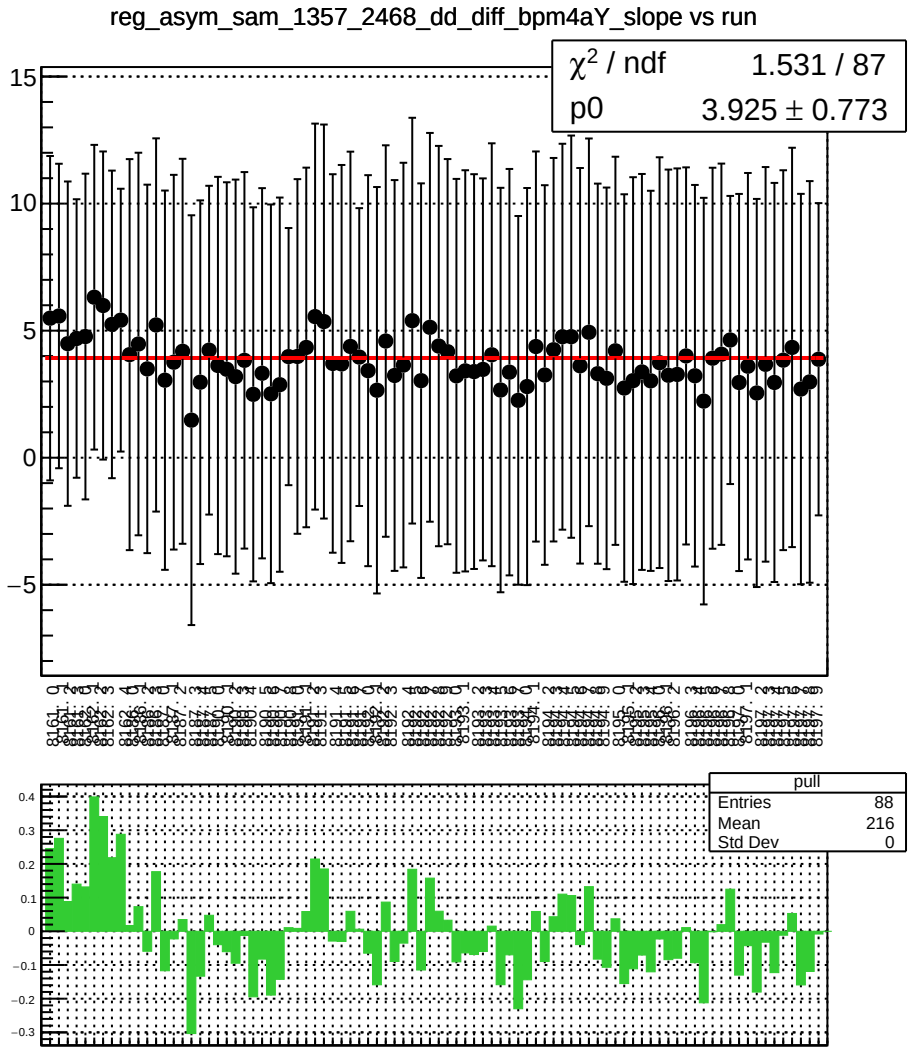

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.445 / 87
p0 36.58 ± 3.287
pull
Entries 88
Mean 201.9
Std Dev 0

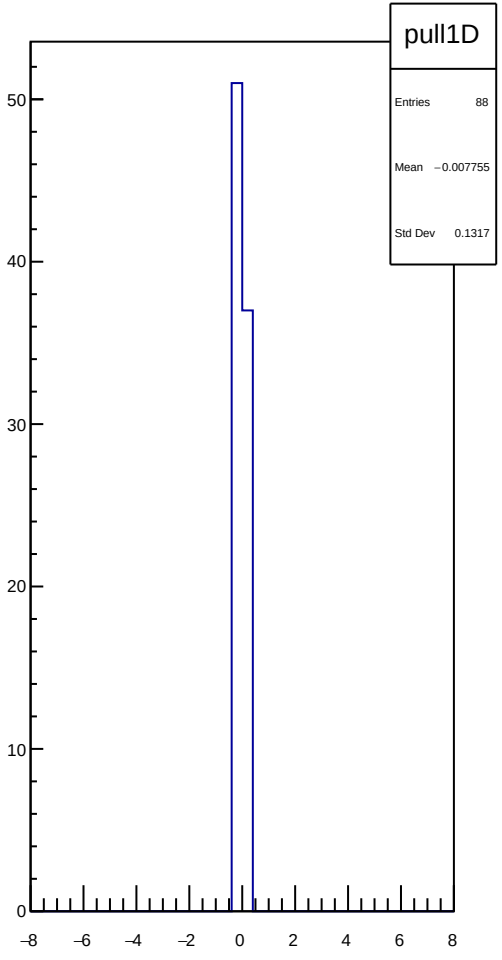

pull1D
Entries 88
Mean −0.005876
Std Dev 0.128

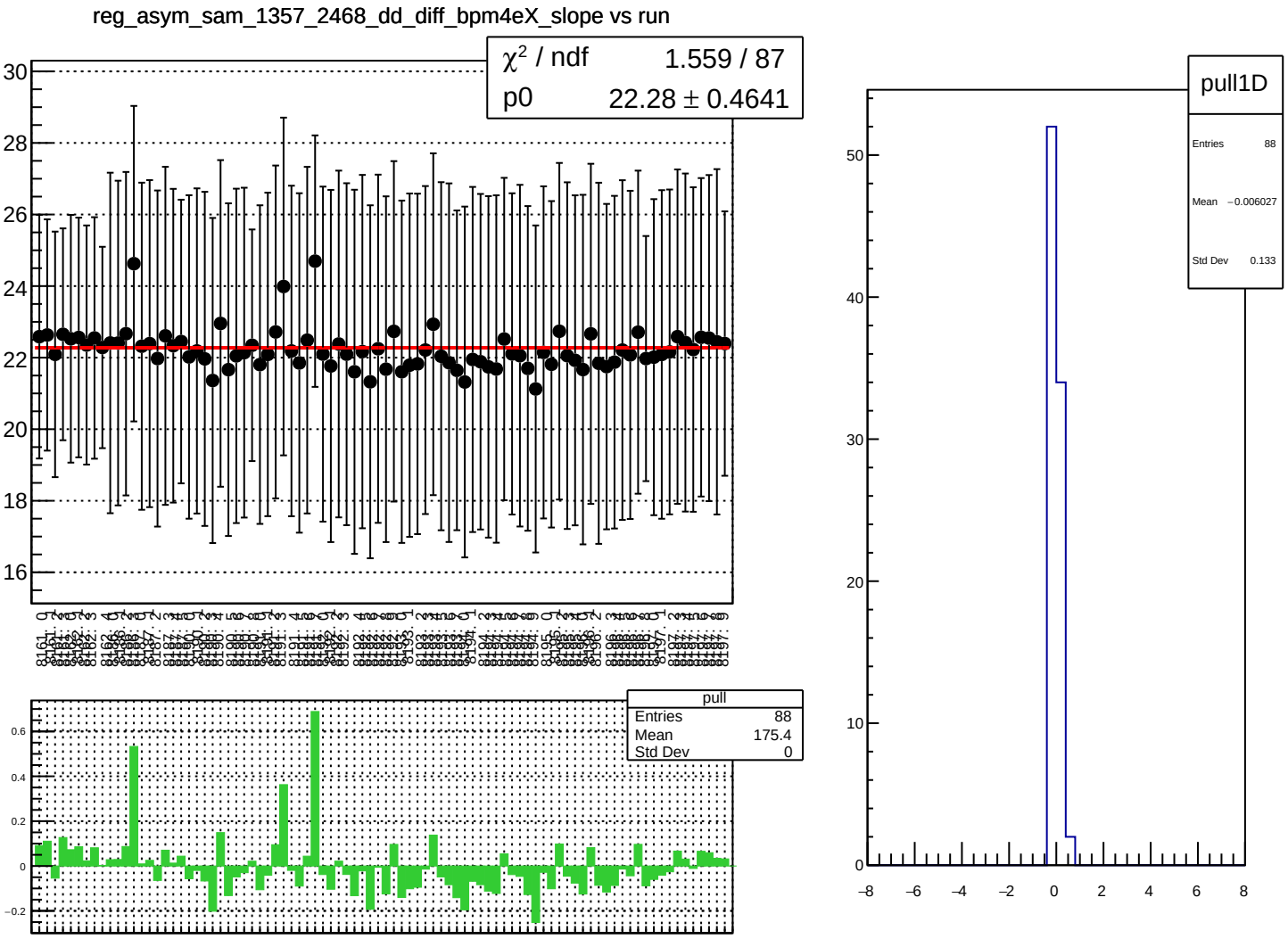

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.878 / 87
p0 0.5911 ± 0.1488
pull
Entries 88
Mean 516.8
Std Dev 0
pull1D
Entries 88
Mean −0.005027
Std Dev 0.1808

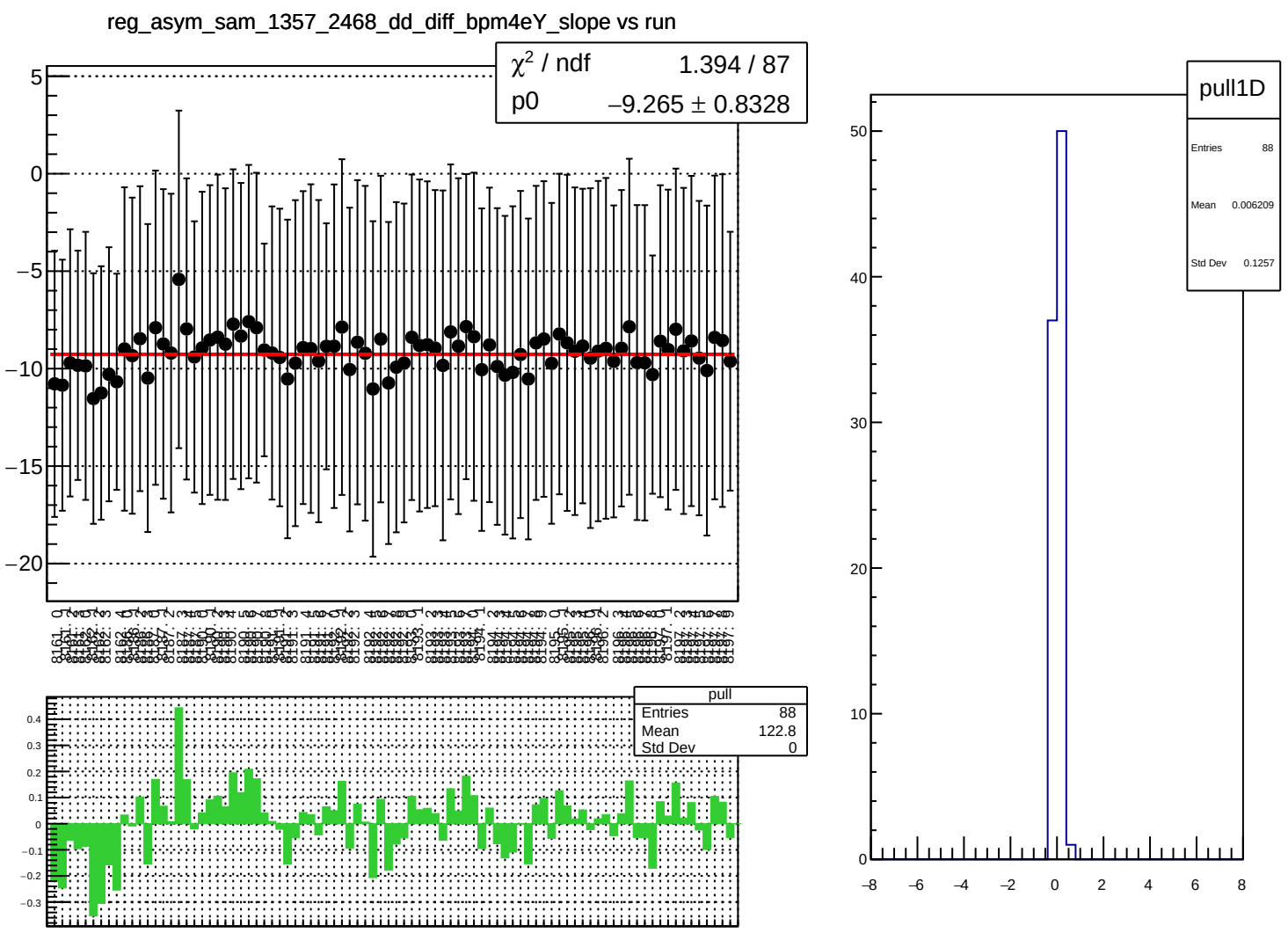

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.9533 / 87
p0 1.14 ± 0.4636
pull
Entries 88
Mean −3.22
Std Dev 0

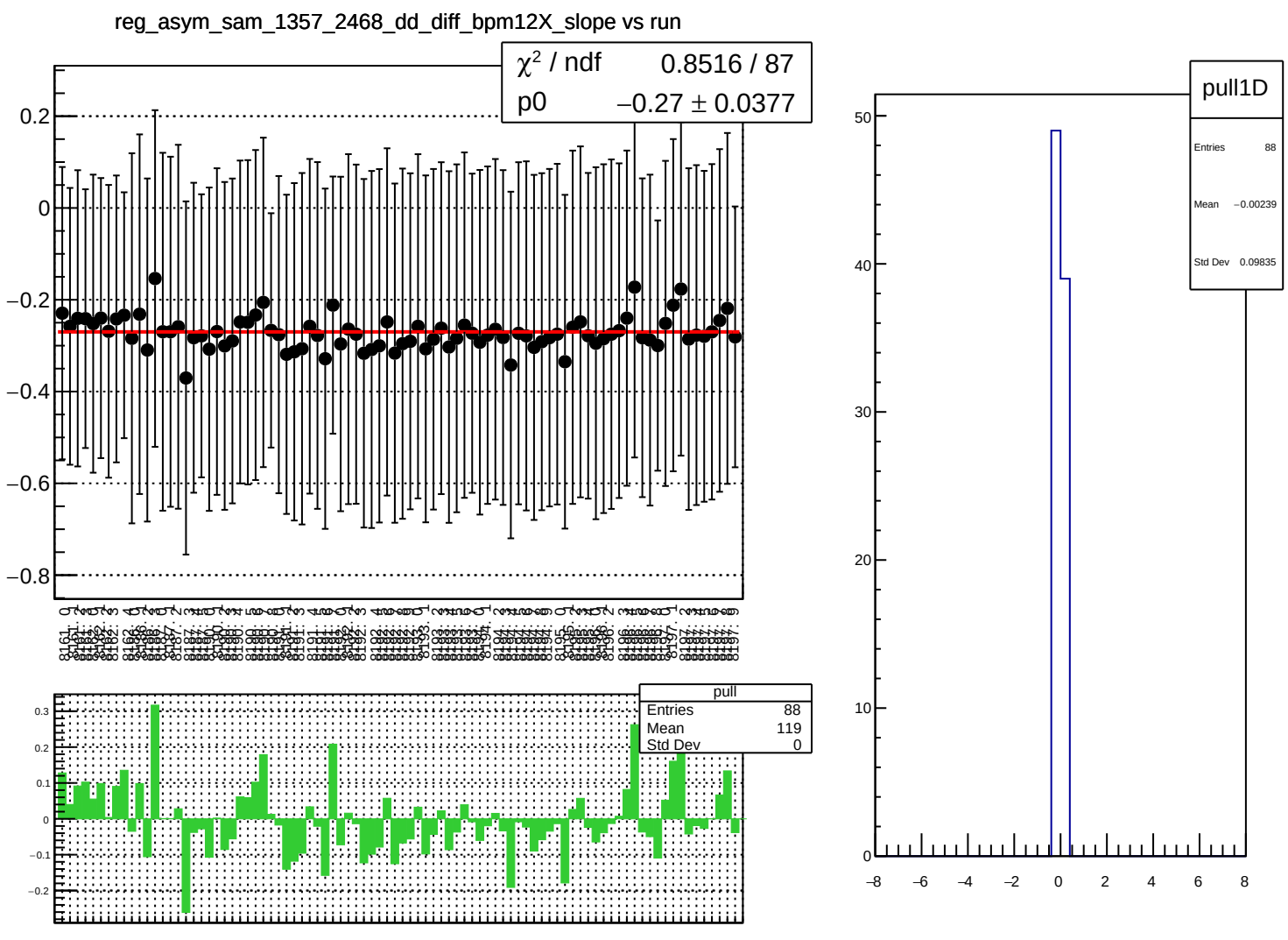

pull1D
Entries 88
Mean 0.0008358
Std Dev 0.1041

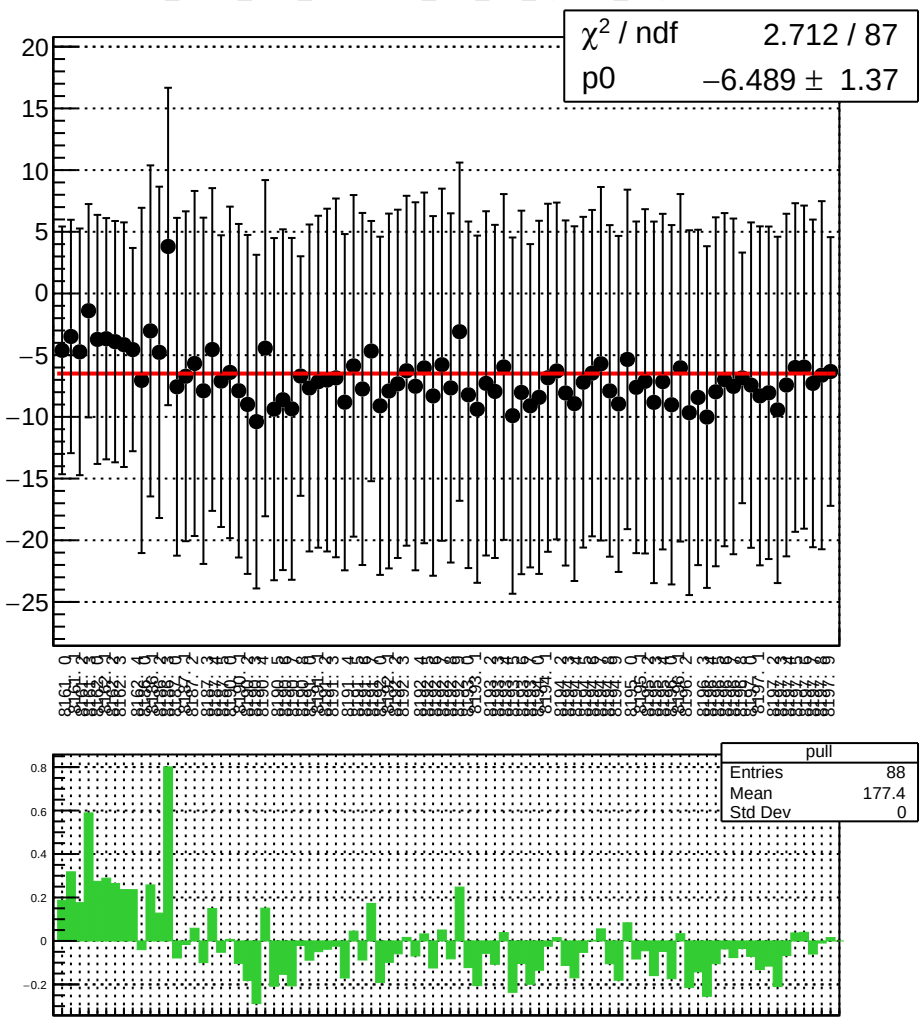

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.531 / 87
p0 3.925 ± 0.773
pull
Entries 88
Mean 216
Std Dev 0

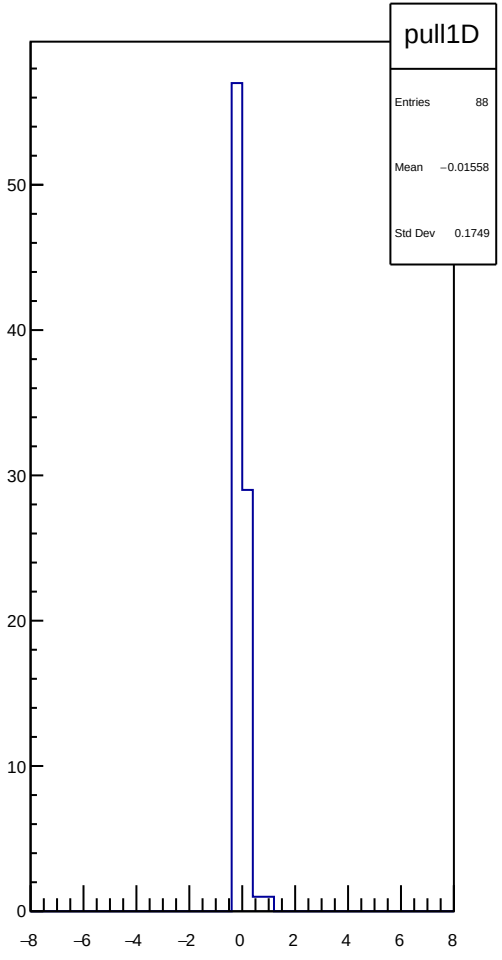

pull1D
Entries 88
Mean −0.007755
Std Dev 0.1317

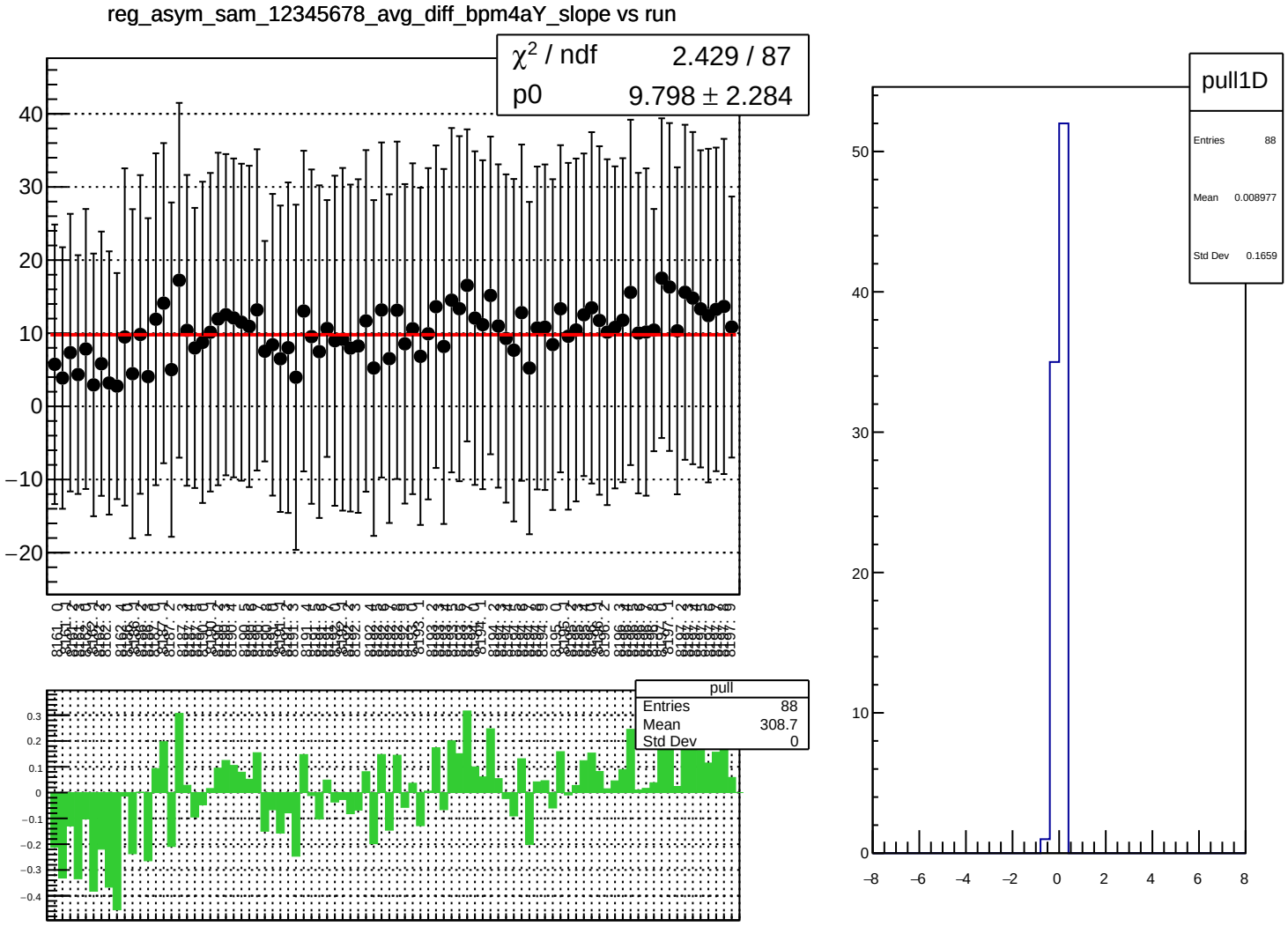

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.559 / 87
p0 22.28 ± 0.4641
pull
Entries 88
Mean 175.4
Std Dev 0
pull1D
Entries 88
Mean −0.006027
Std Dev 0.133

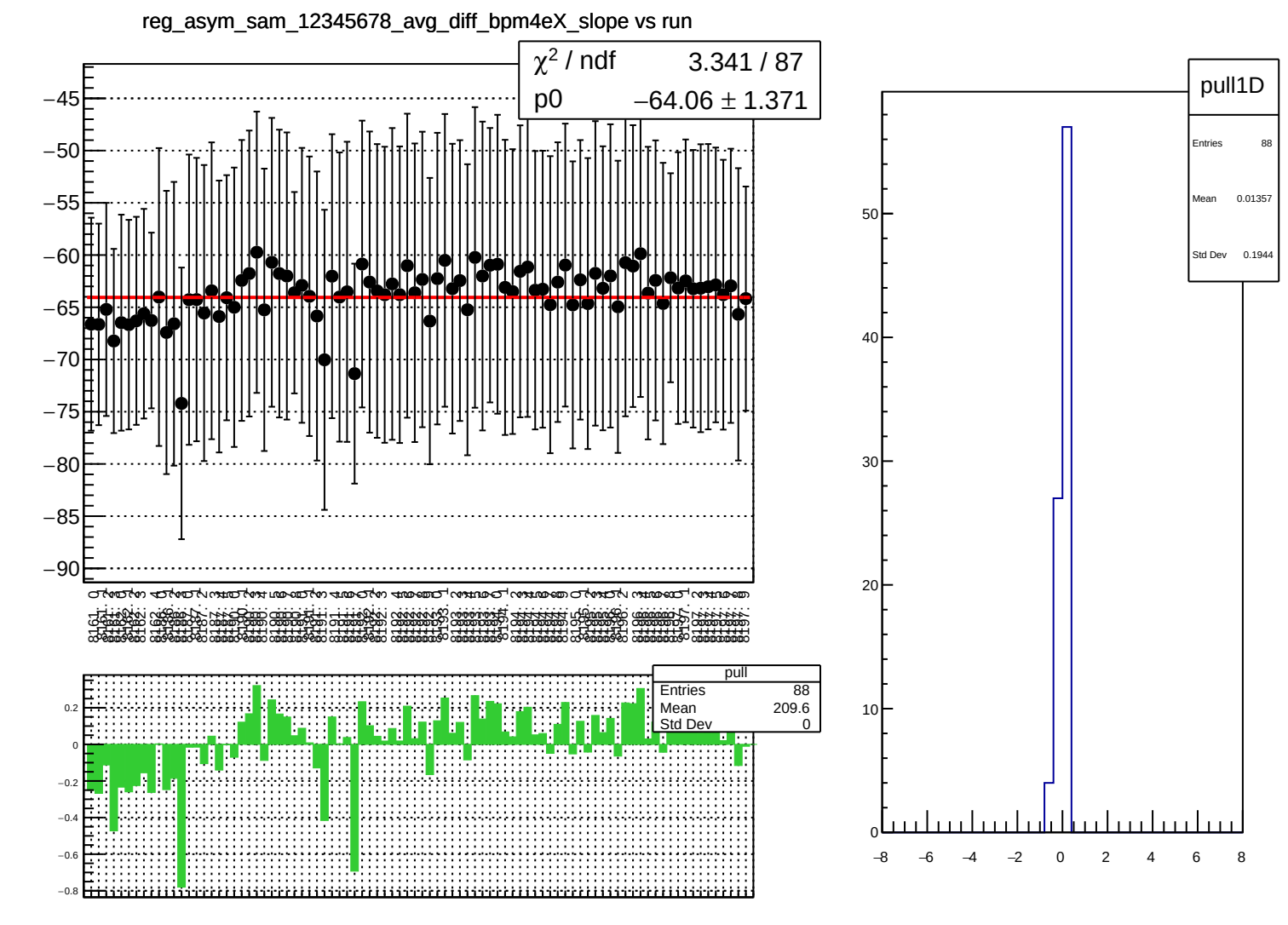

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.394 / 87
p0 −9.265 ± 0.8328
pull
Entries 88
Mean 122.8
Std Dev 0
pull1D
Entries 88
Mean 0.006209
Std Dev 0.1257

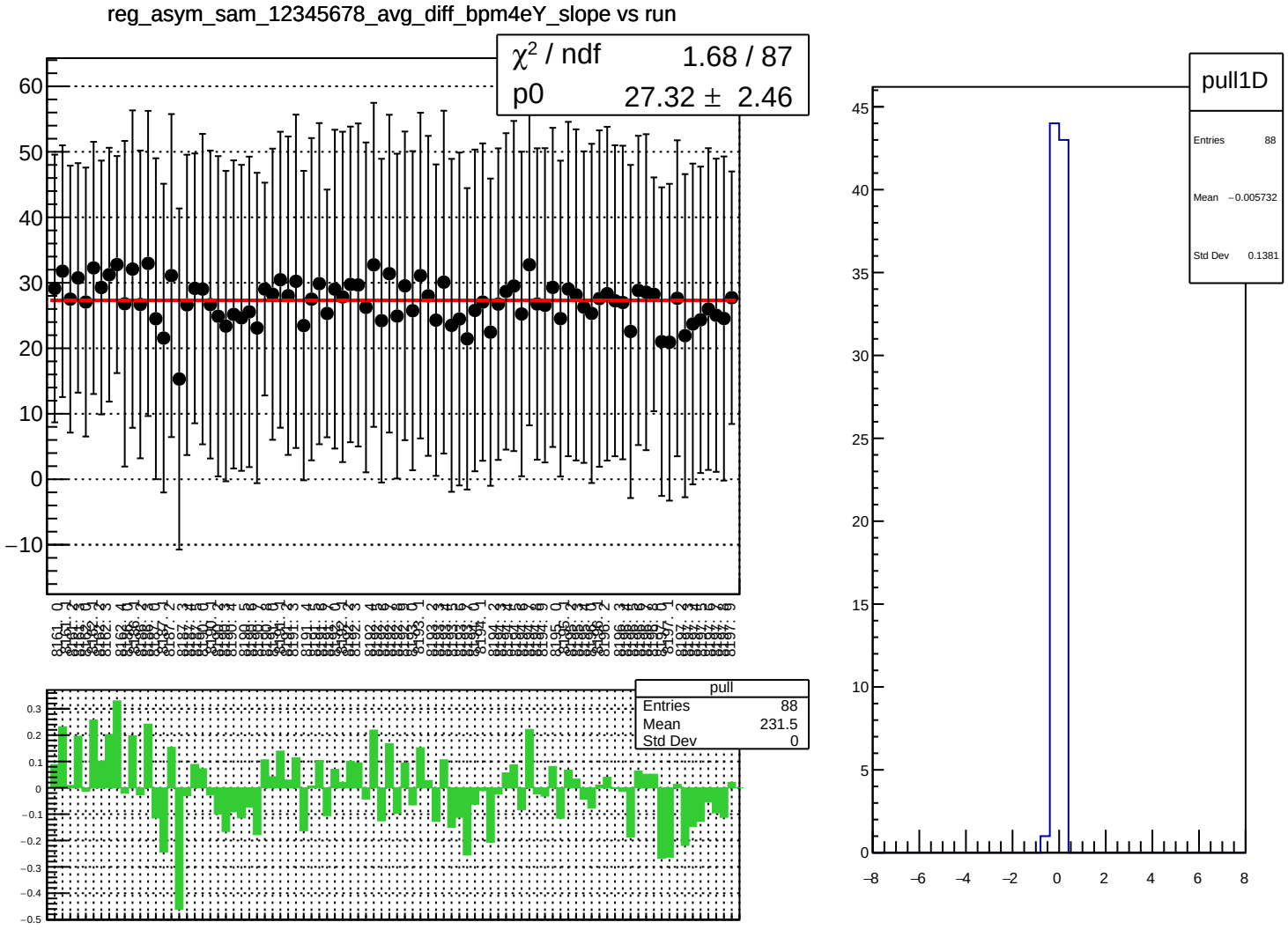

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8516 / 87
p0 −0.27 ± 0.0377
pull
Entries 88
Mean 119
Std Dev 0
pull1D
Entries 88
Mean −0.00239
Std Dev 0.09835

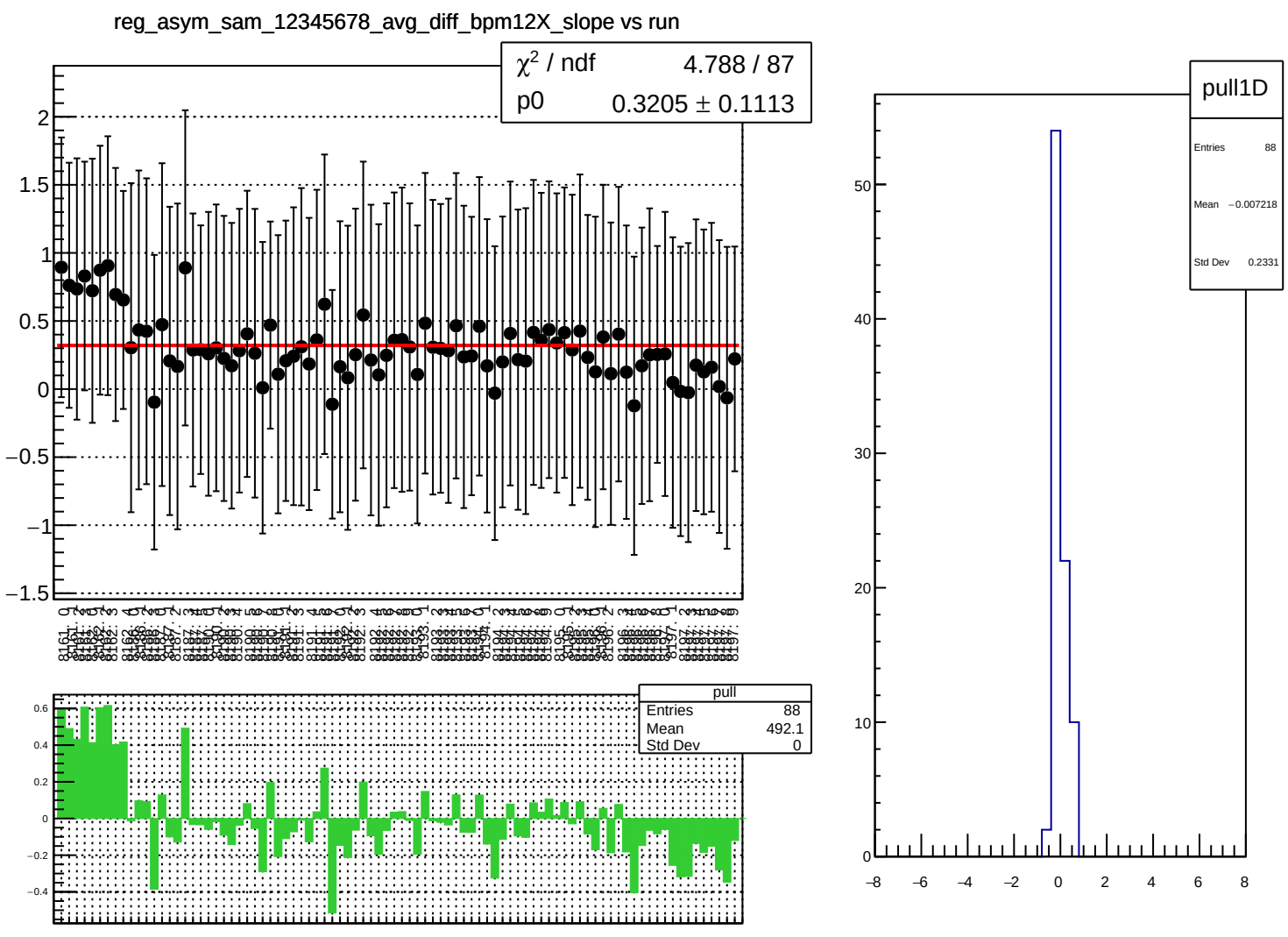

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 2.712 / 87
p0 −6.489 ± 1.37
pull
Entries 88
Mean 177.4
Std Dev 0

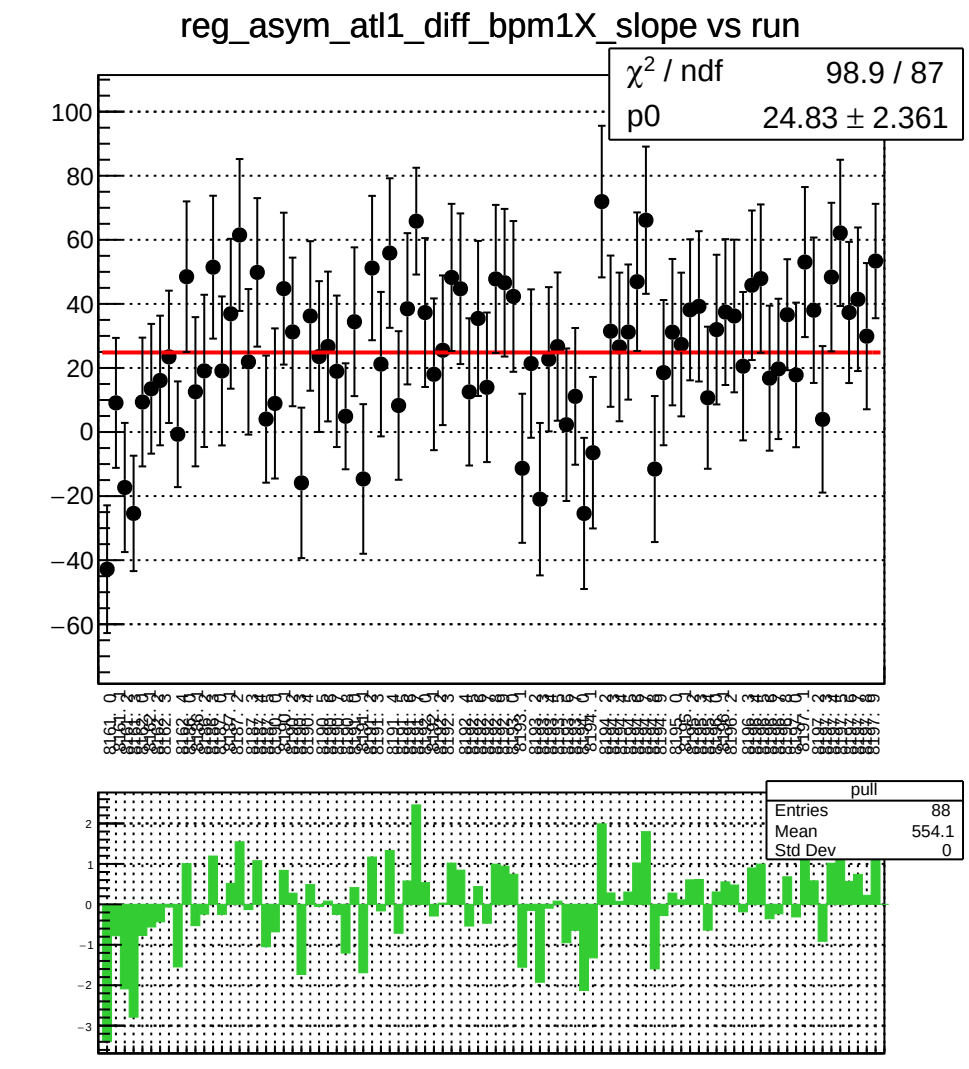

pull1D
Entries 88
Mean −0.01558
Std Dev 0.1749

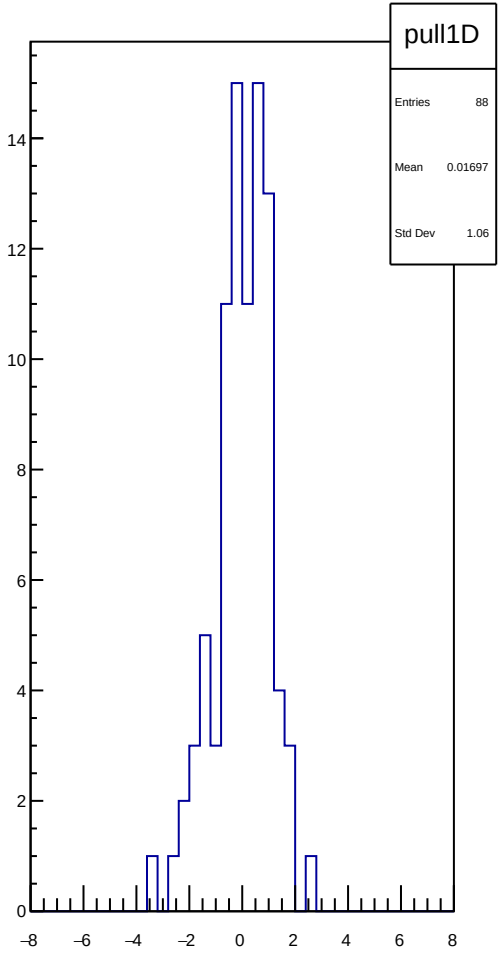

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.429 / 87
p0 9.798 ± 2.284
pull
Entries 88
Mean 308.7
Std Dev 0
pull1D
Entries 88
Mean 0.008977
Std Dev 0.1659

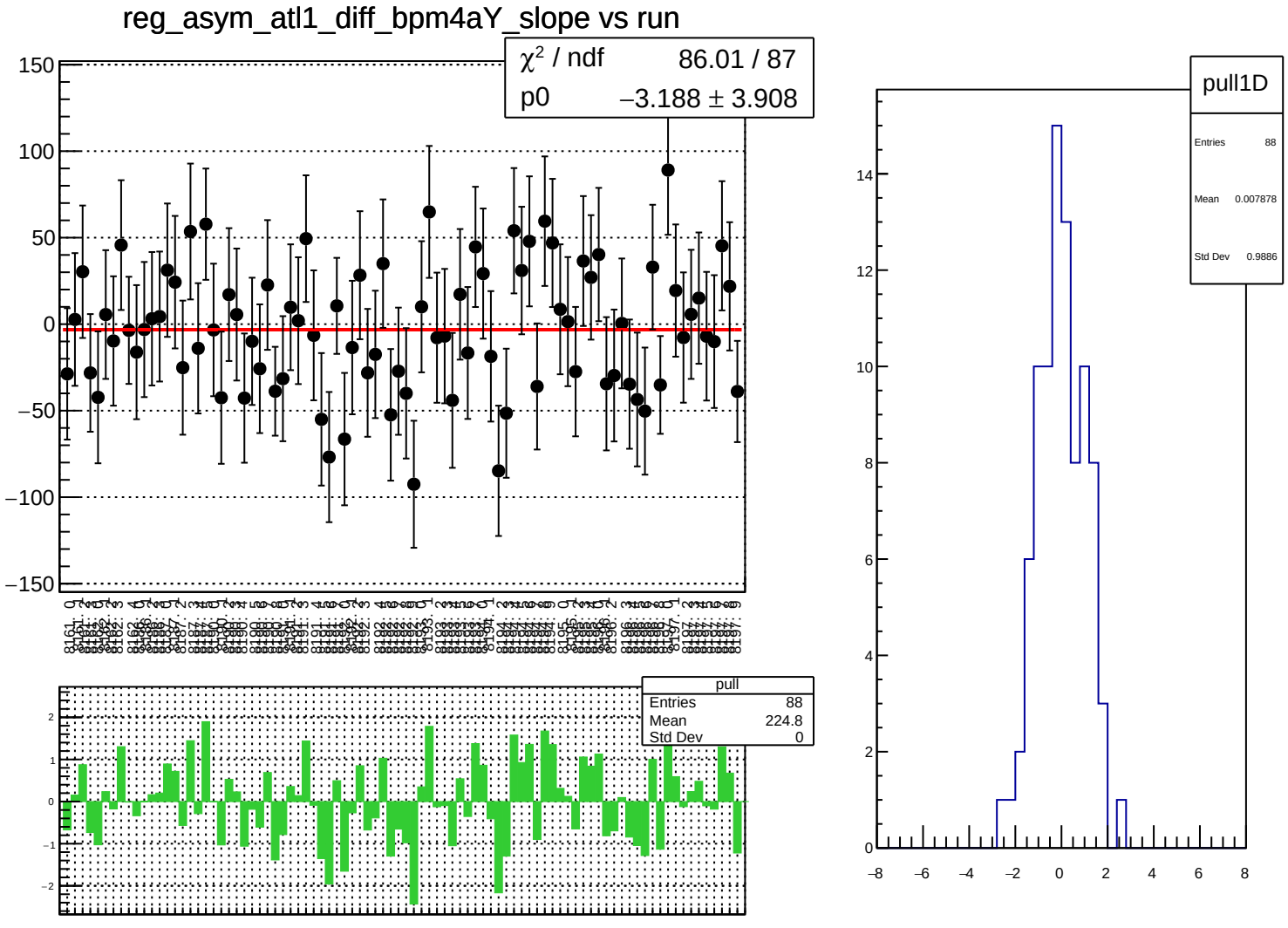

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.341 / 87
p0 −64.06 ± 1.371
pull
Entries 88
Mean 209.6
Std Dev 0
pull1D
Entries 88
Mean 0.01357
Std Dev 0.1944

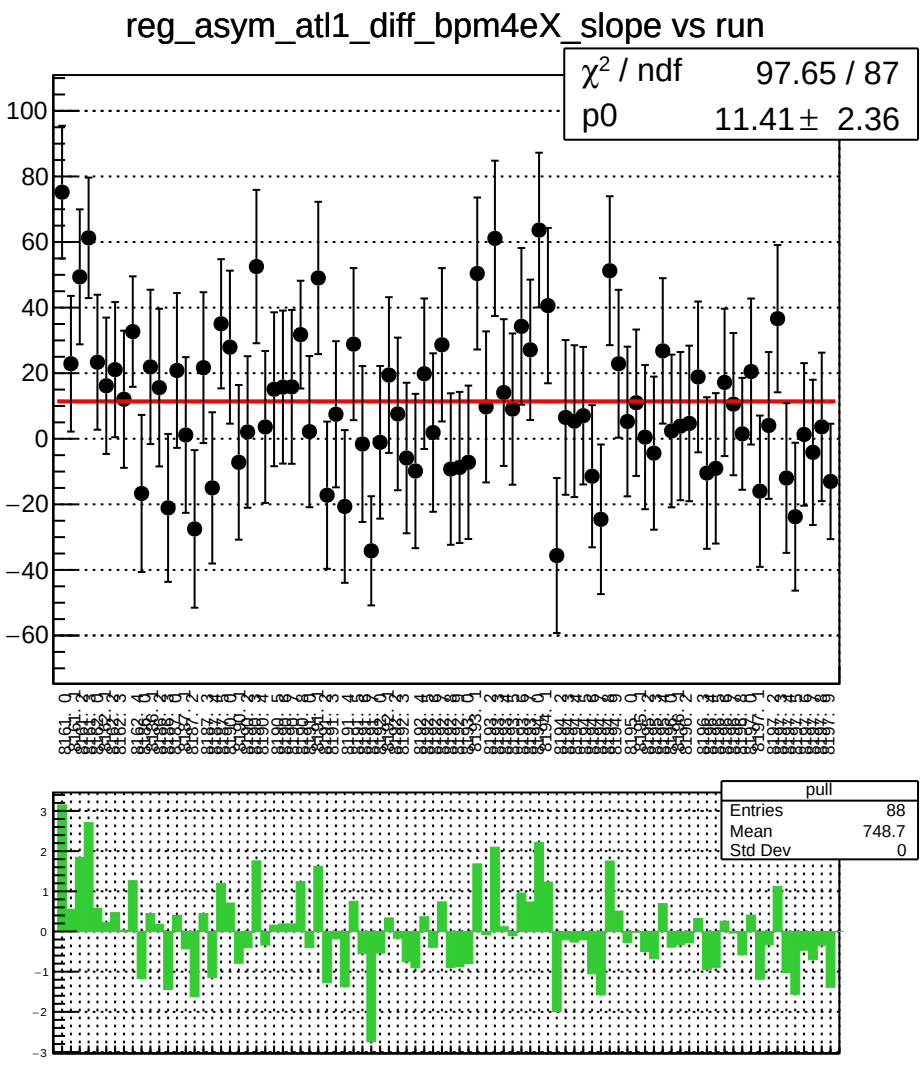

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.68 / 87
p0 27.32 ± 2.46
pull
Entries 88
Mean 231.5
Std Dev 0
pull1D
Entries 88
Mean −0.005732
Std Dev 0.1381

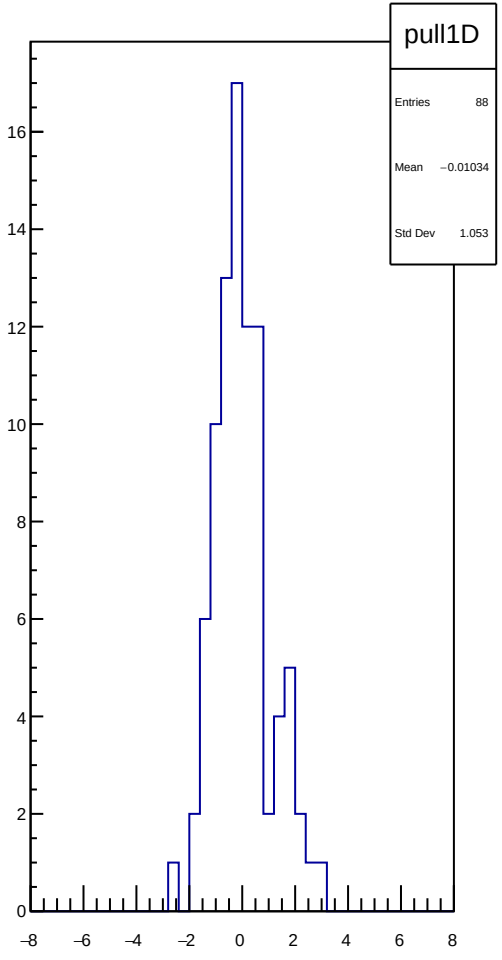

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 4.788 / 87
p0 0.3205 ± 0.1113
pull
Entries 88
Mean 492.1
Std Dev 0
pull1D
Entries 88
Mean −0.007218
Std Dev 0.2331

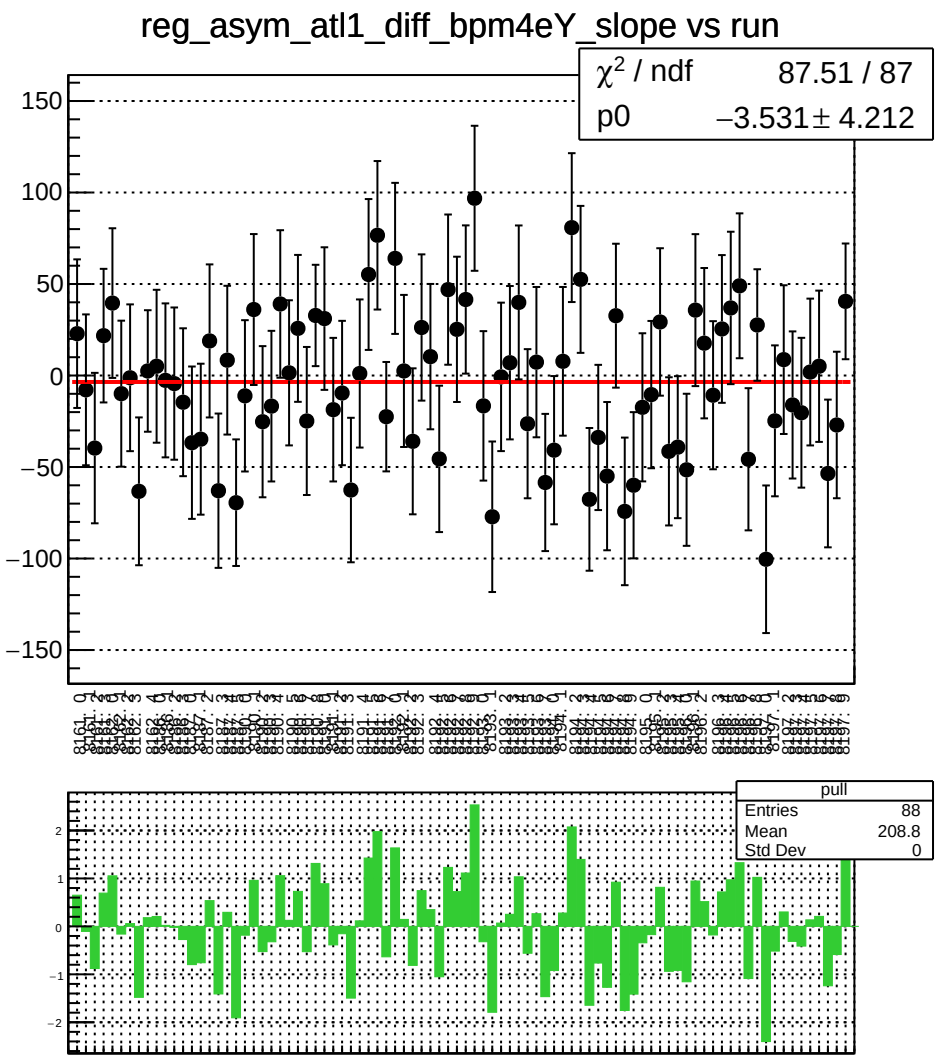

reg_asym_atl1_diff_bpm1X_slope vs run
χ^2 / ndf 98.9 / 87
p0 24.83 ± 2.361
pull
Entries 88
Mean 554.1
Std Dev 0

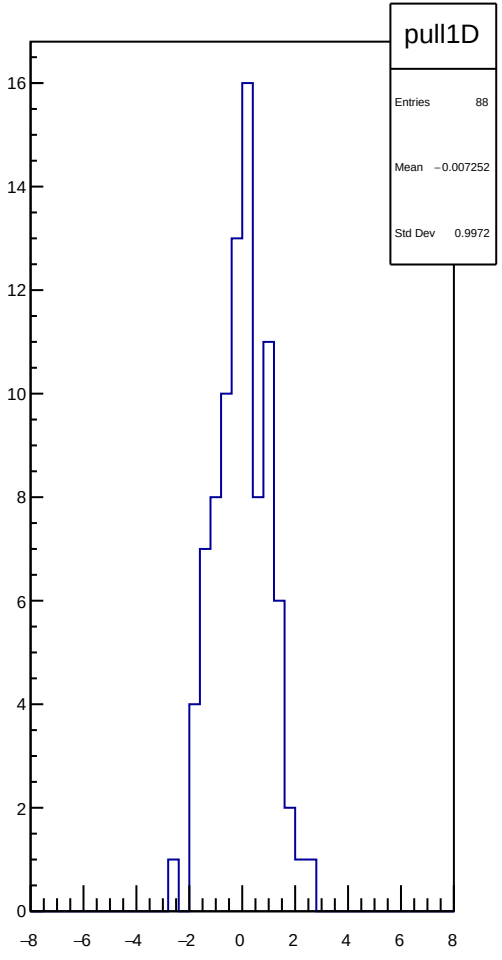

pull1D
Entries 88
Mean 0.01697
Std Dev 1.06

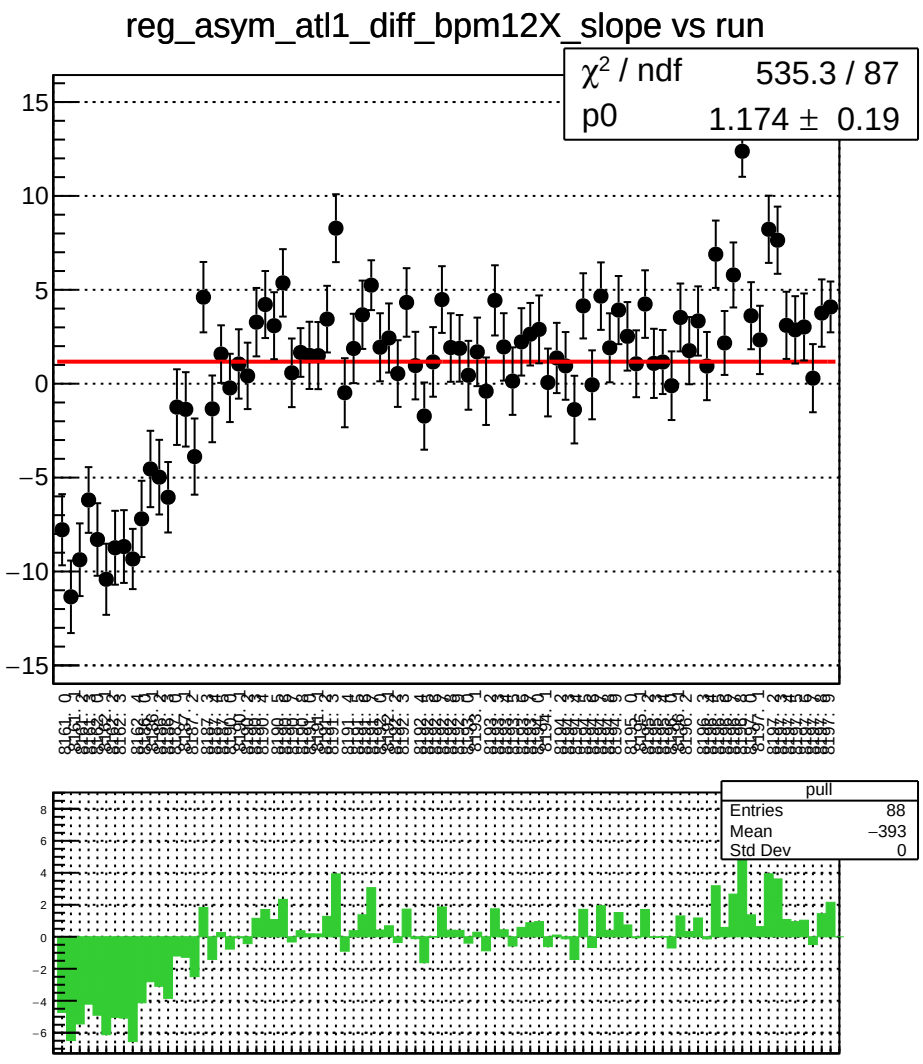

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 86.01 / 87
p0 −3.188 ± 3.908
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 224.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007878
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

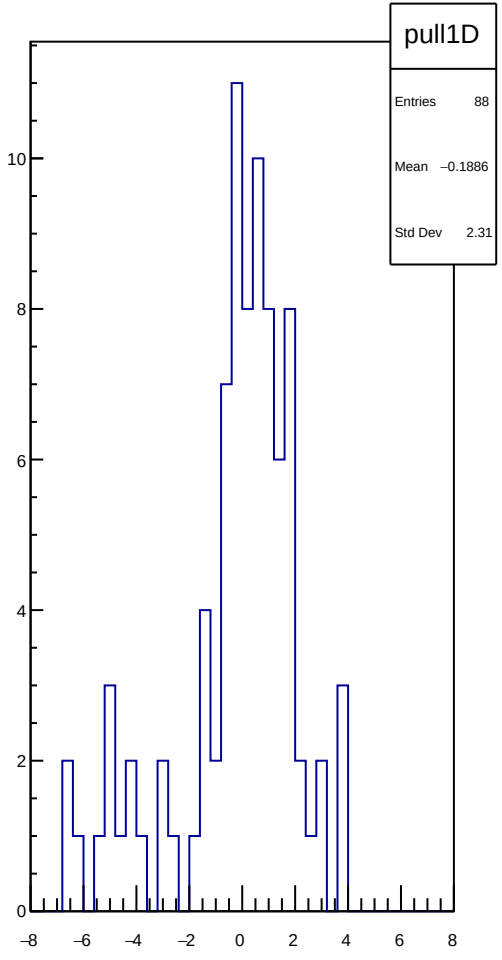

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 97.65 / 87
p0 11.41 ± 2.36
pull
Entries 88
Mean 748.7
Std Dev 0

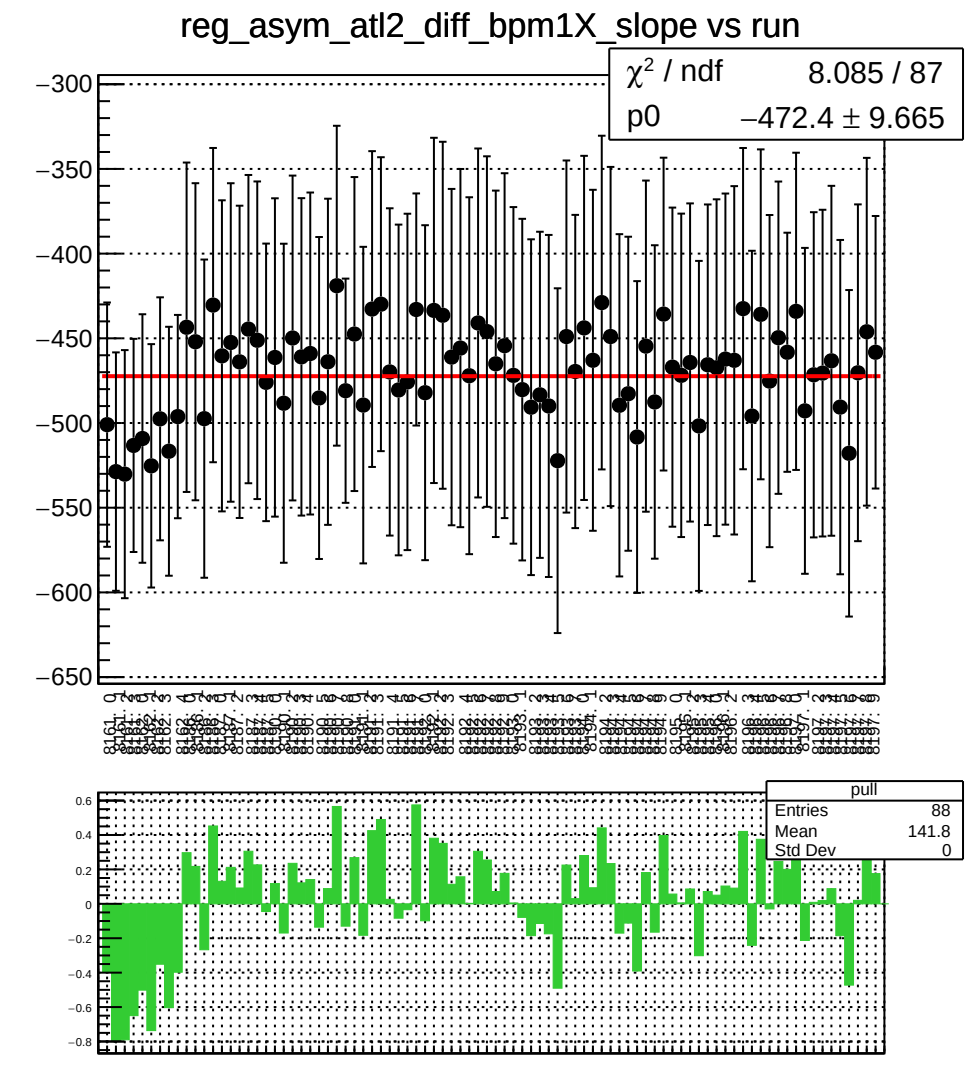

pull1D
Entries 88
Mean −0.01034
Std Dev 1.053

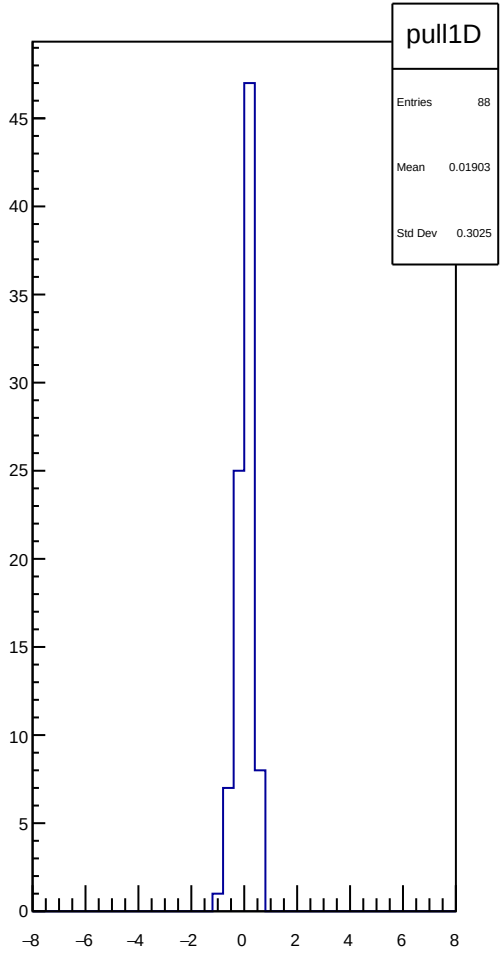

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 87.51 / 87
p0 −3.531 ± 4.212
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 208.8
Std Dev 0
2
1
0
−1
−2

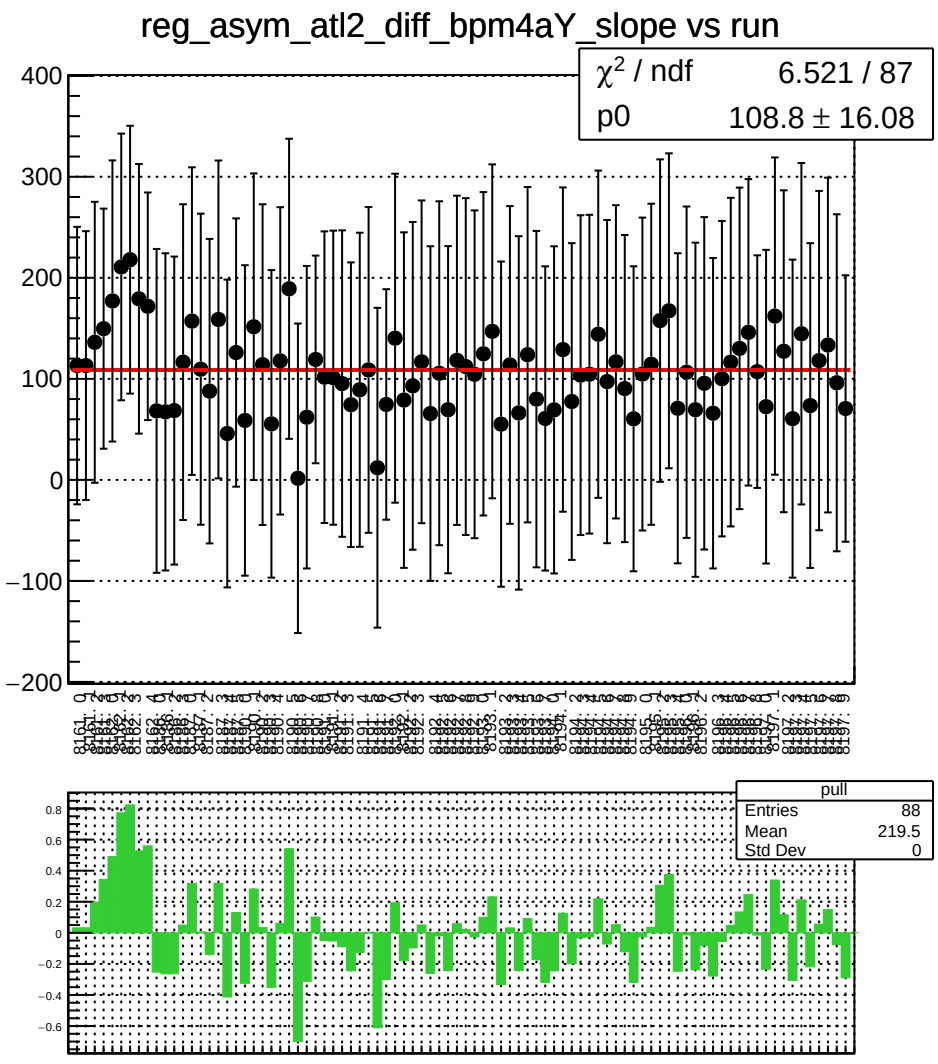

pull1D
Entries 88
Mean −0.007252
Std Dev 0.9972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

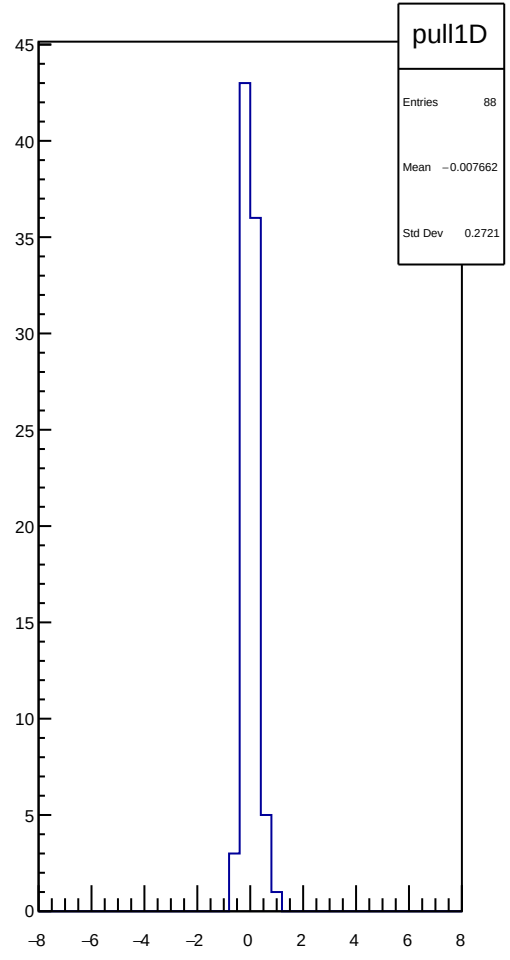

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 535.3 / 87
p0 1.174 ± 0.19
pull
Entries 88
Mean −393
Std Dev 0

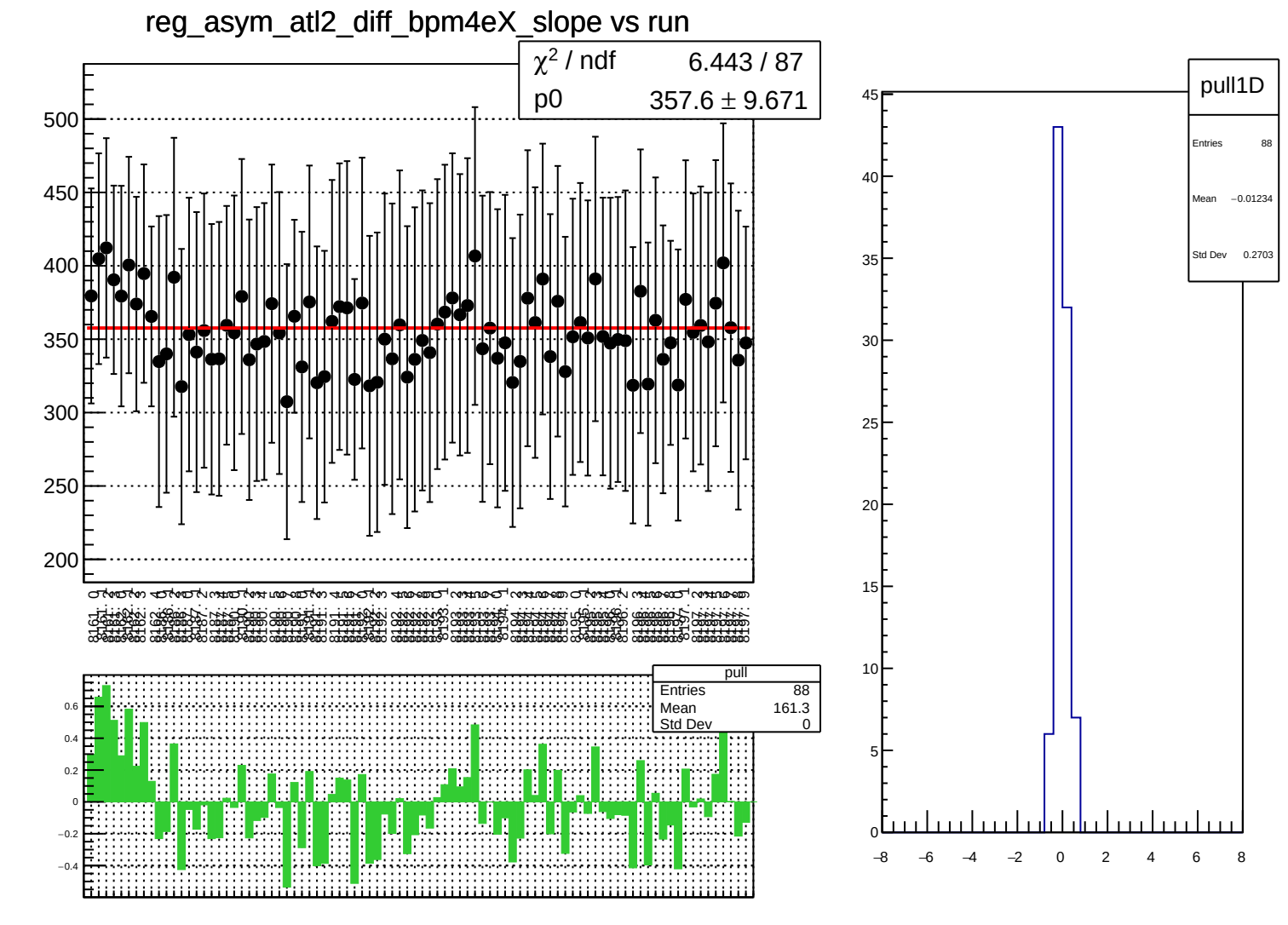

pull1D
Entries 88
Mean −0.1886
Std Dev 2.31

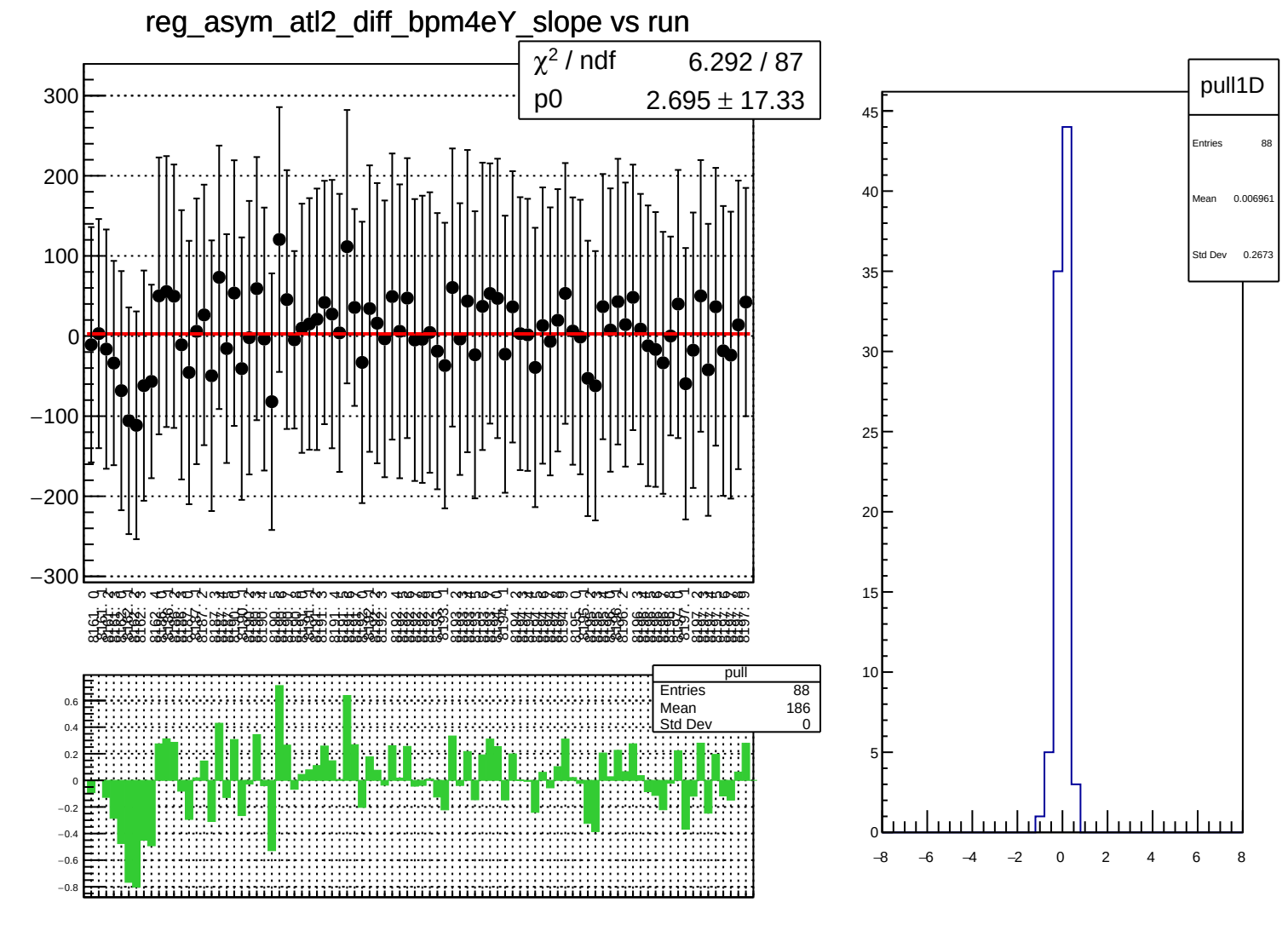

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 8.085 / 87
p0 −472.4 ± 9.665
pull
Entries 88
Mean 141.8
Std Dev 0

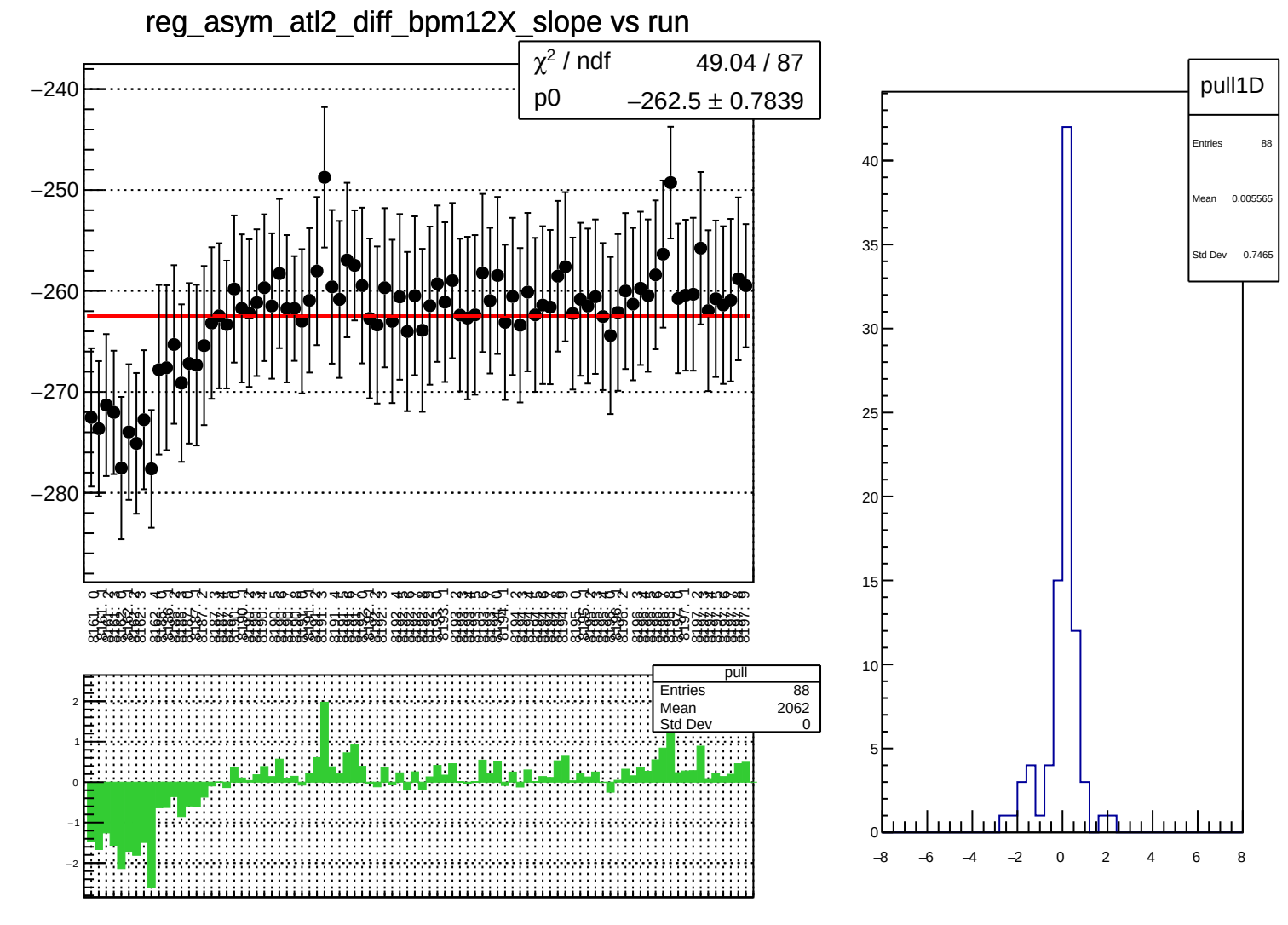

pull1D
Entries 88
Mean 0.01903
Std Dev 0.3025

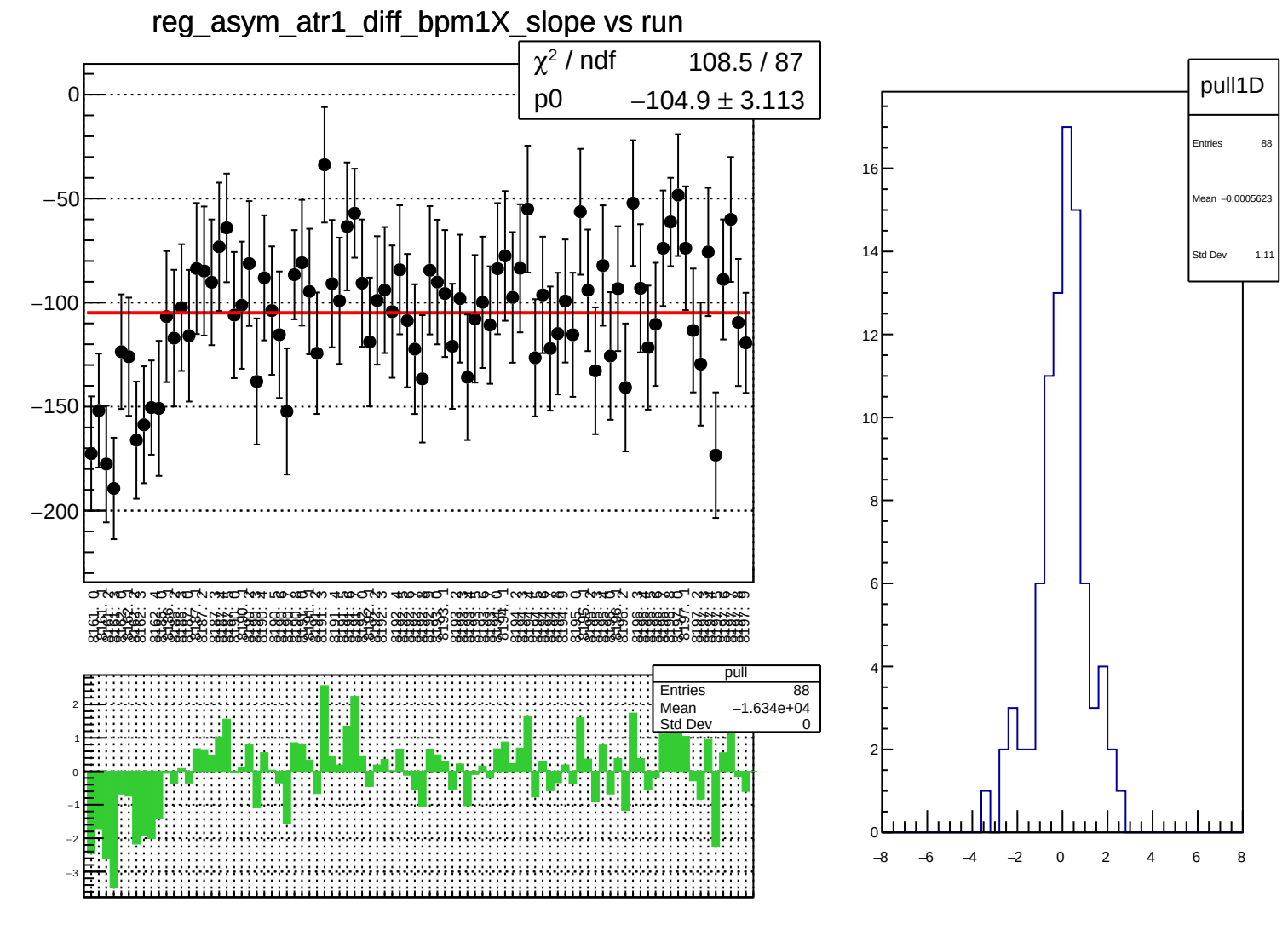

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.521 / 87
p0 108.8 ± 16.08
pull
Entries 88
Mean 219.5
Std Dev 0

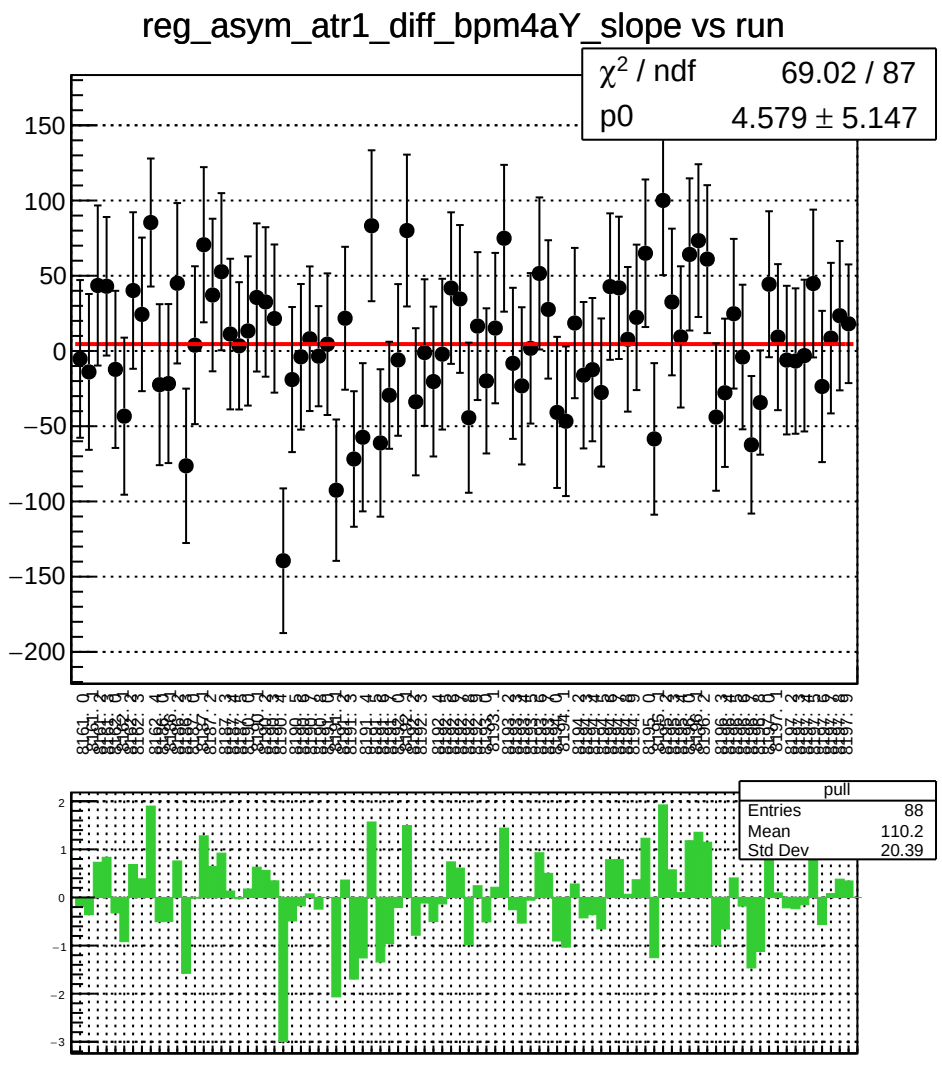

pull1D
Entries 88
Mean −0.007662
Std Dev 0.2721

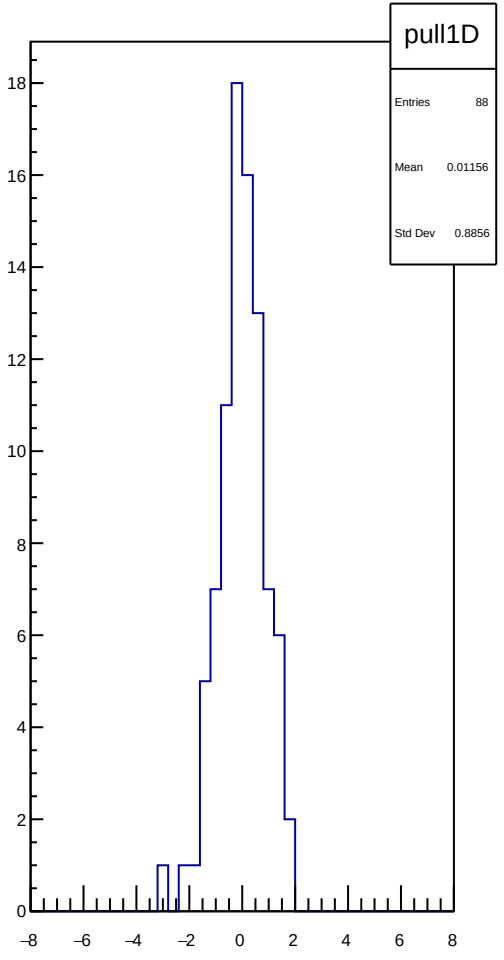

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 6.443 / 87
p0 357.6 ± 9.671
pull
Entries 88
Mean 161.3
Std Dev 0
pull1D
Entries 88
Mean −0.01234
Std Dev 0.2703

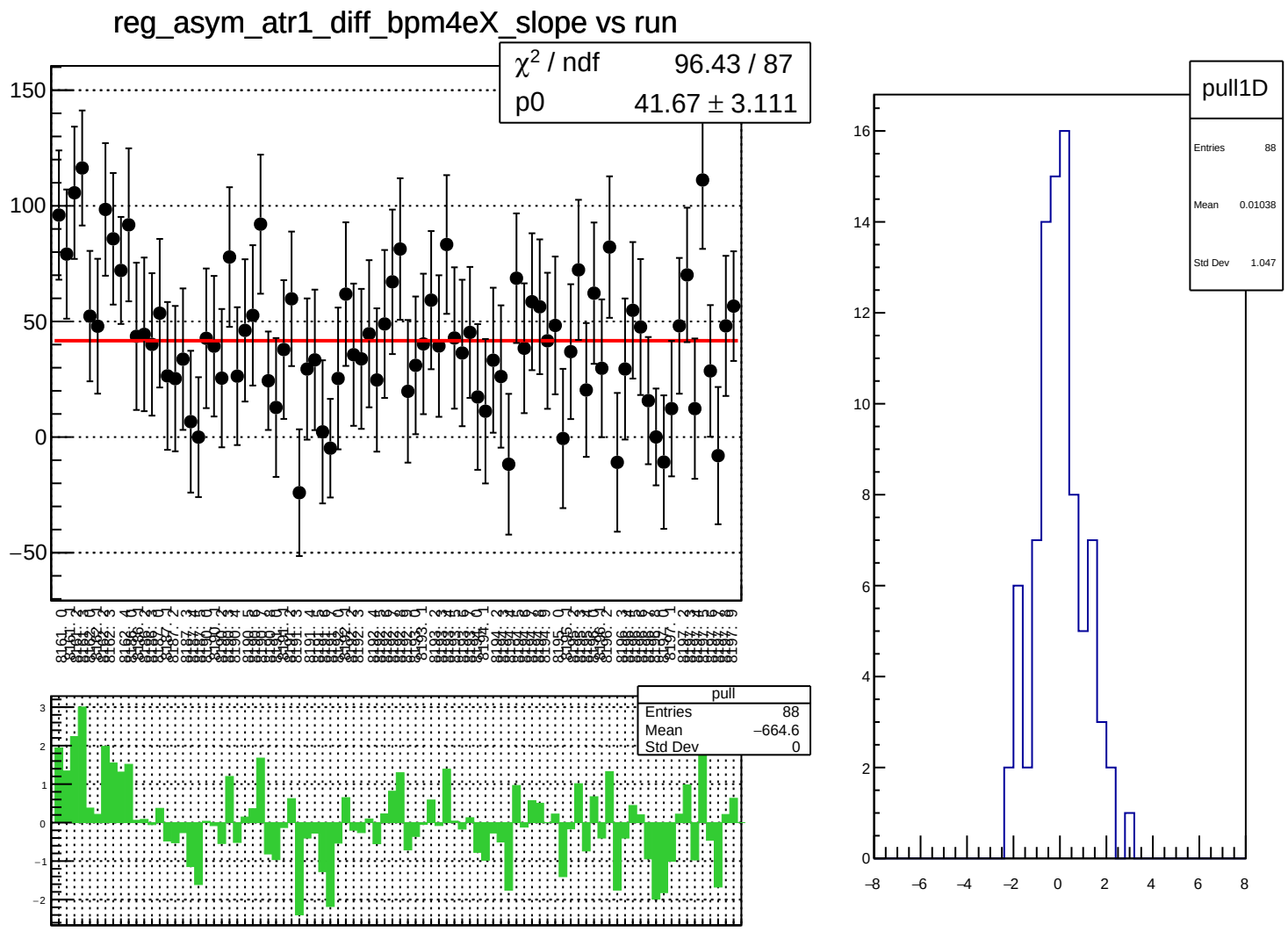

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.292 / 87
p0 2.695 ± 17.33
pull
Entries 88
Mean 186
Std Dev 0
pull1D
Entries 88
Mean 0.006961
Std Dev 0.2673

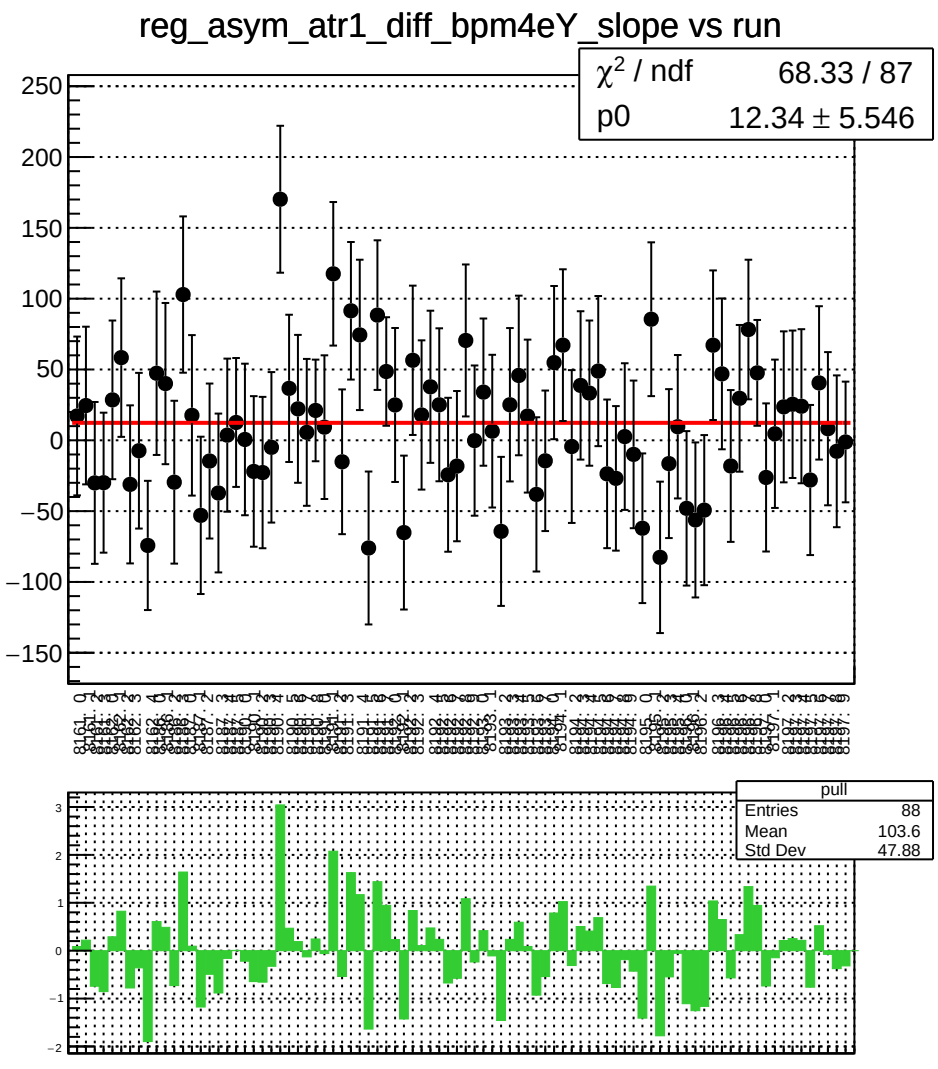

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 49.04 / 87
p0 −262.5 ± 0.7839
−240
−250
−260
−270
−280
pull
Entries 88
Mean 2062
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005565
Std Dev 0.7465
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

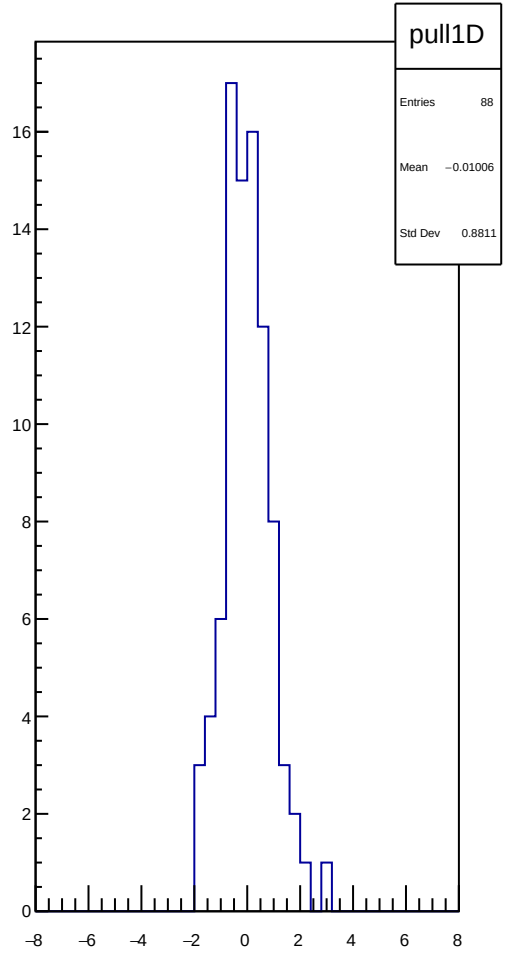

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 108.5 / 87
p0 −104.9 ± 3.113
pull
Entries 88
Mean −1.634e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0005623
Std Dev 1.11

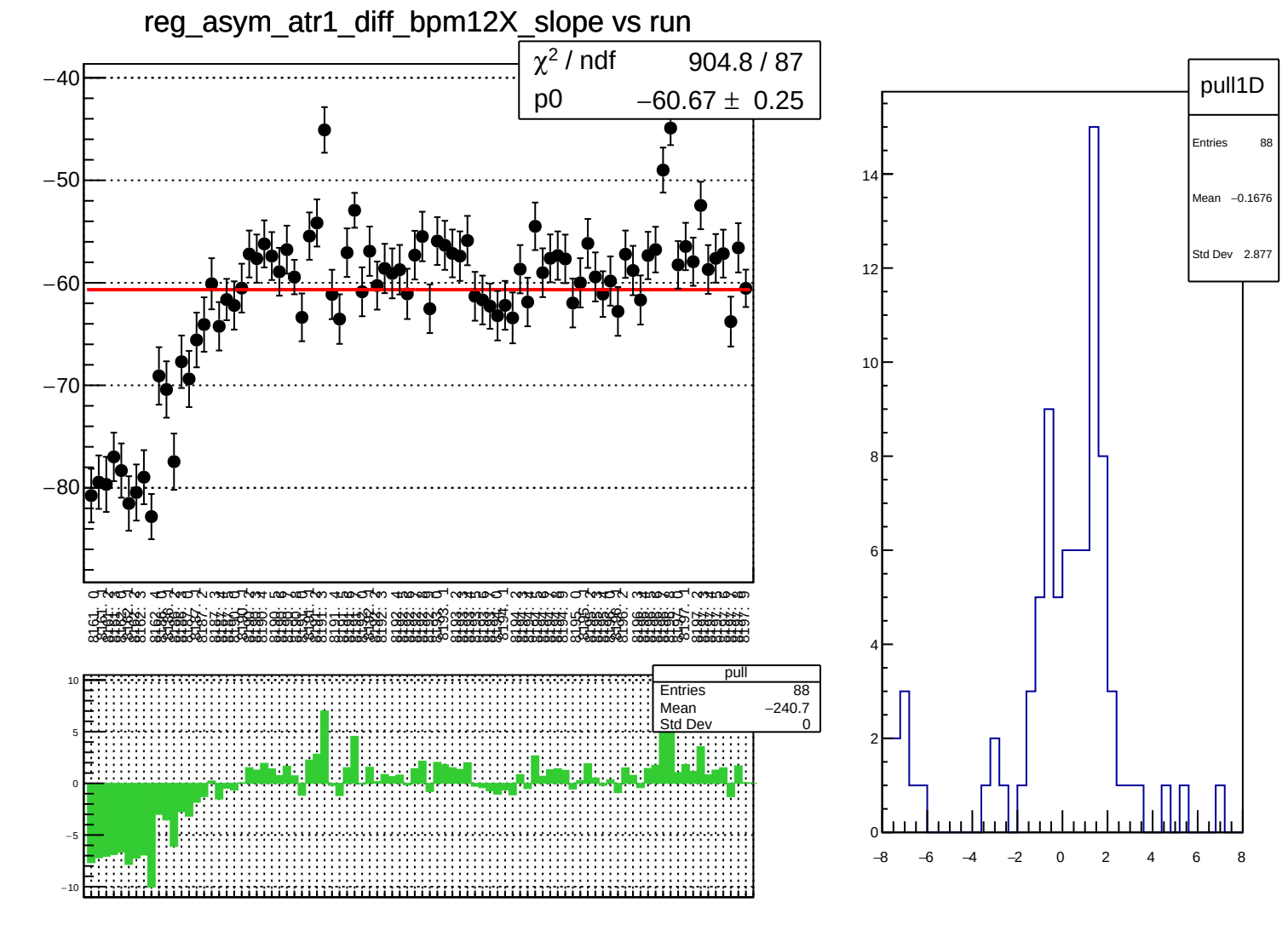

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 69.02 / 87
p0 4.579 ± 5.147
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 110.2
Std Dev 20.39
2
1
0
−1
−2
−3

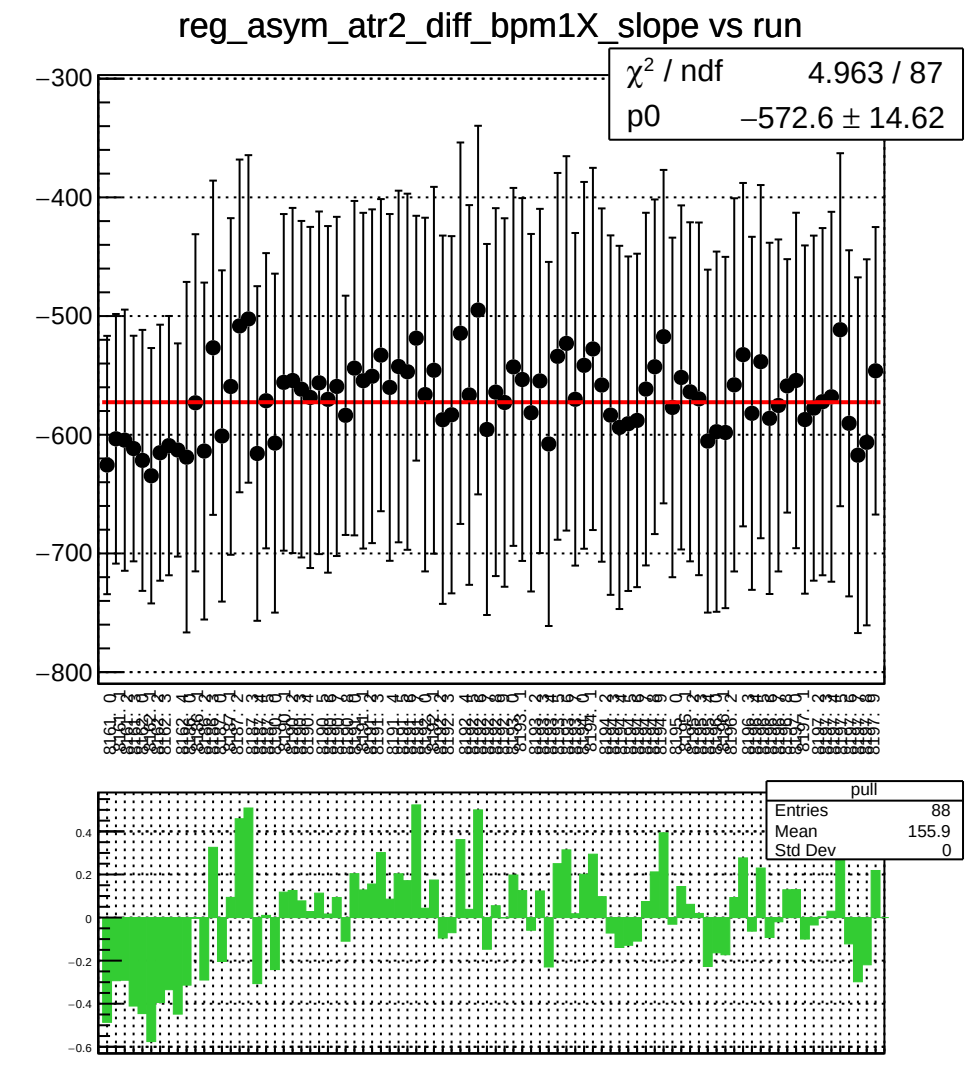

pull1D
Entries 88
Mean 0.01156
Std Dev 0.8856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

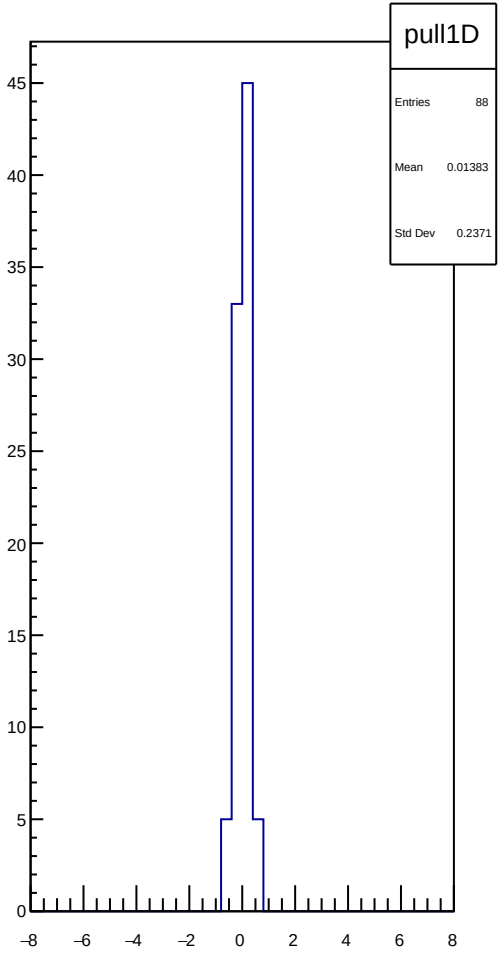

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 96.43 / 87
p0 41.67 ± 3.111
150
100
50
0
−50
pull
Entries 88
Mean −664.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01038
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

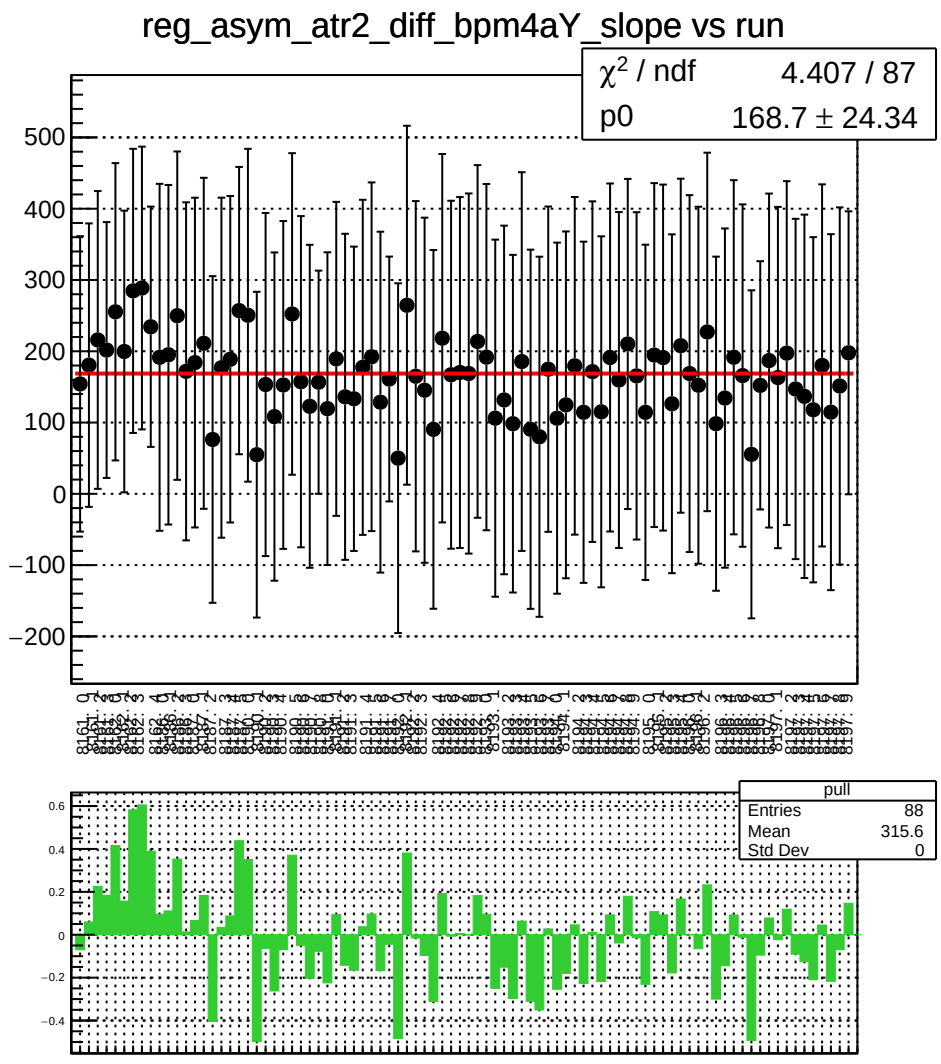

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 68.33 / 87
p0 12.34 ± 5.546
pull
Entries 88
Mean 103.6
Std Dev 47.88

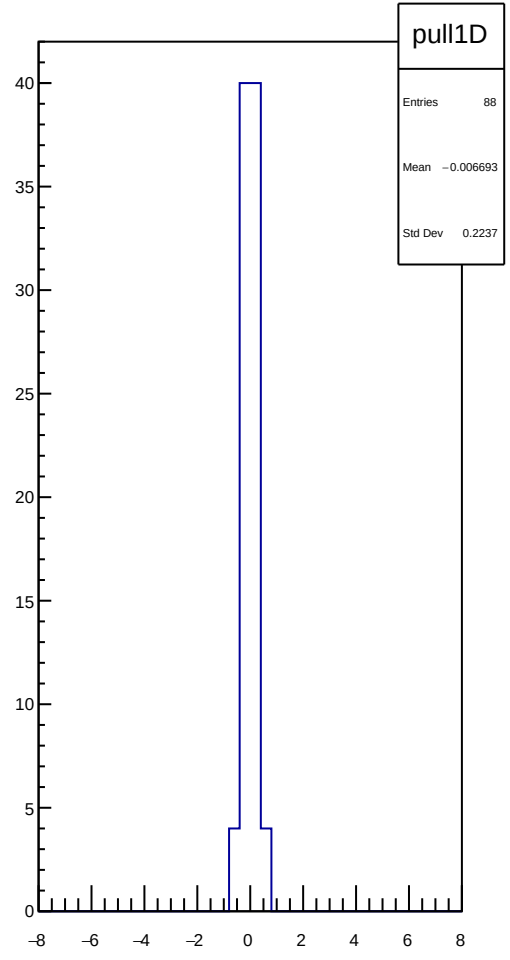

pull1D
Entries 88
Mean −0.01006
Std Dev 0.8811

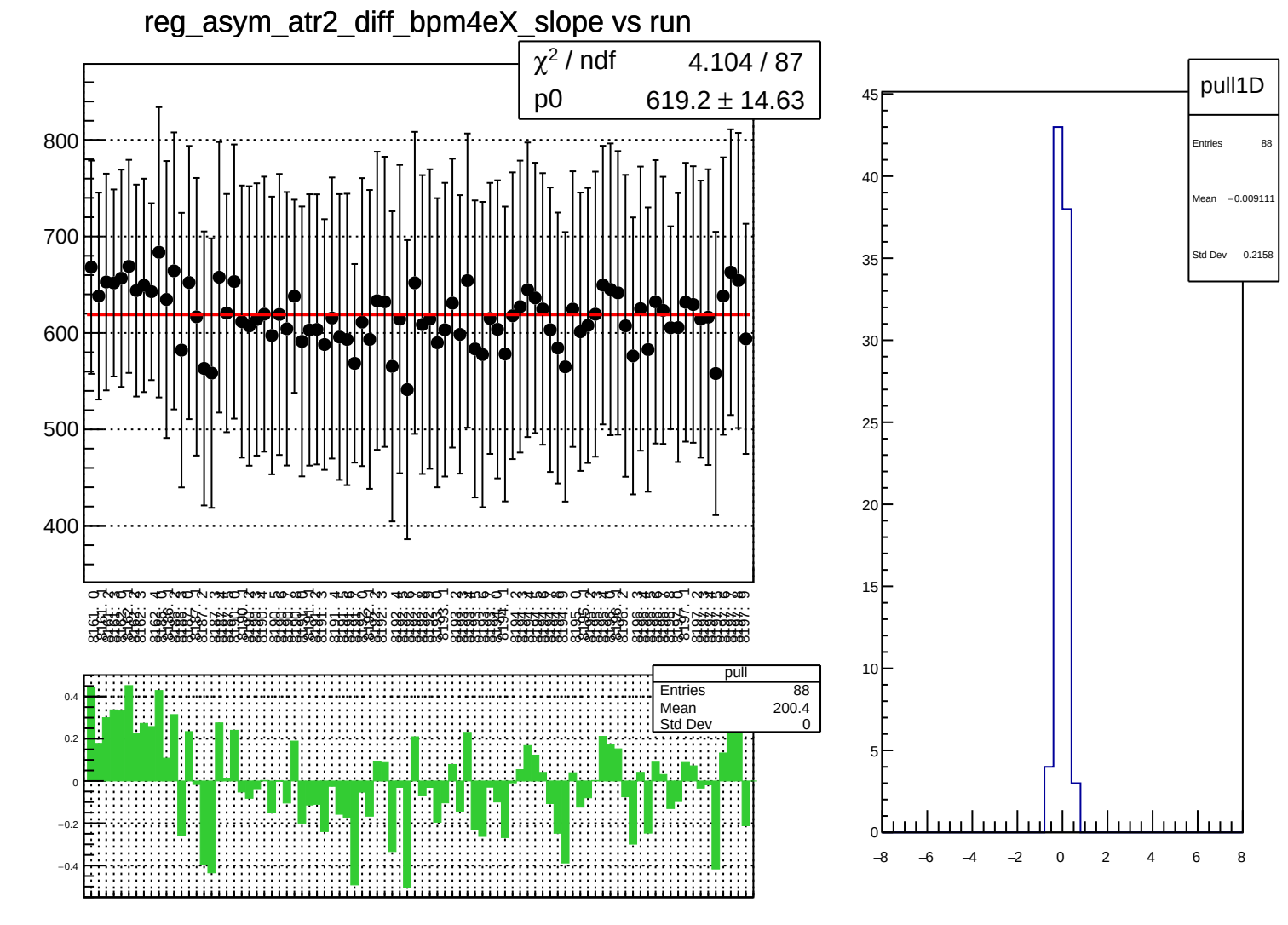

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 904.8 / 87
p0 −60.67 ± 0.25
pull
Entries 88
Mean −240.7
Std Dev 0
pull1D
Entries 88
Mean −0.1676
Std Dev 2.877

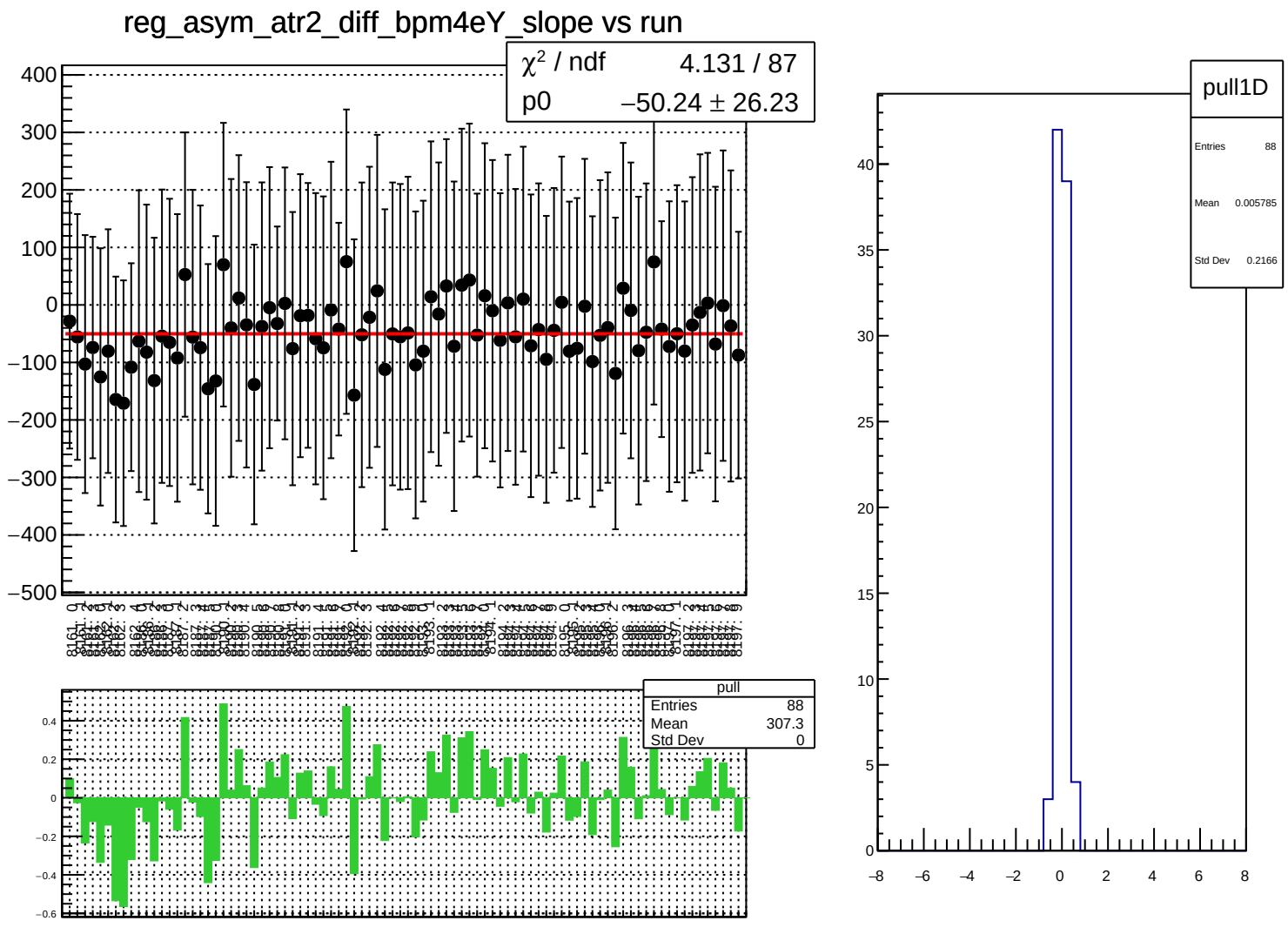

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 4.963 / 87
p0 −572.6 ± 14.62
pull
Entries 88
Mean 155.9
Std Dev 0

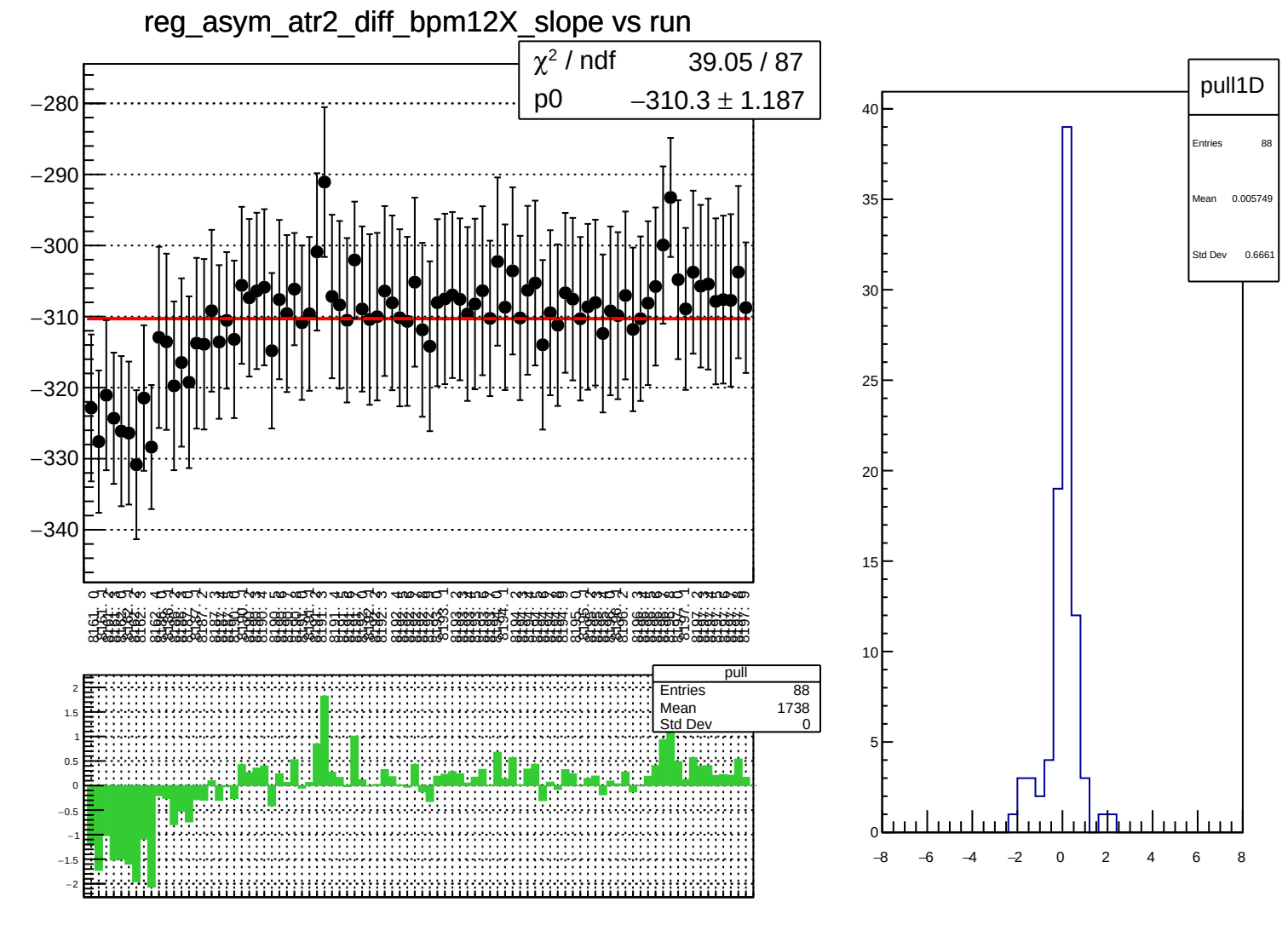

pull1D
Entries 88
Mean 0.01383
Std Dev 0.2371

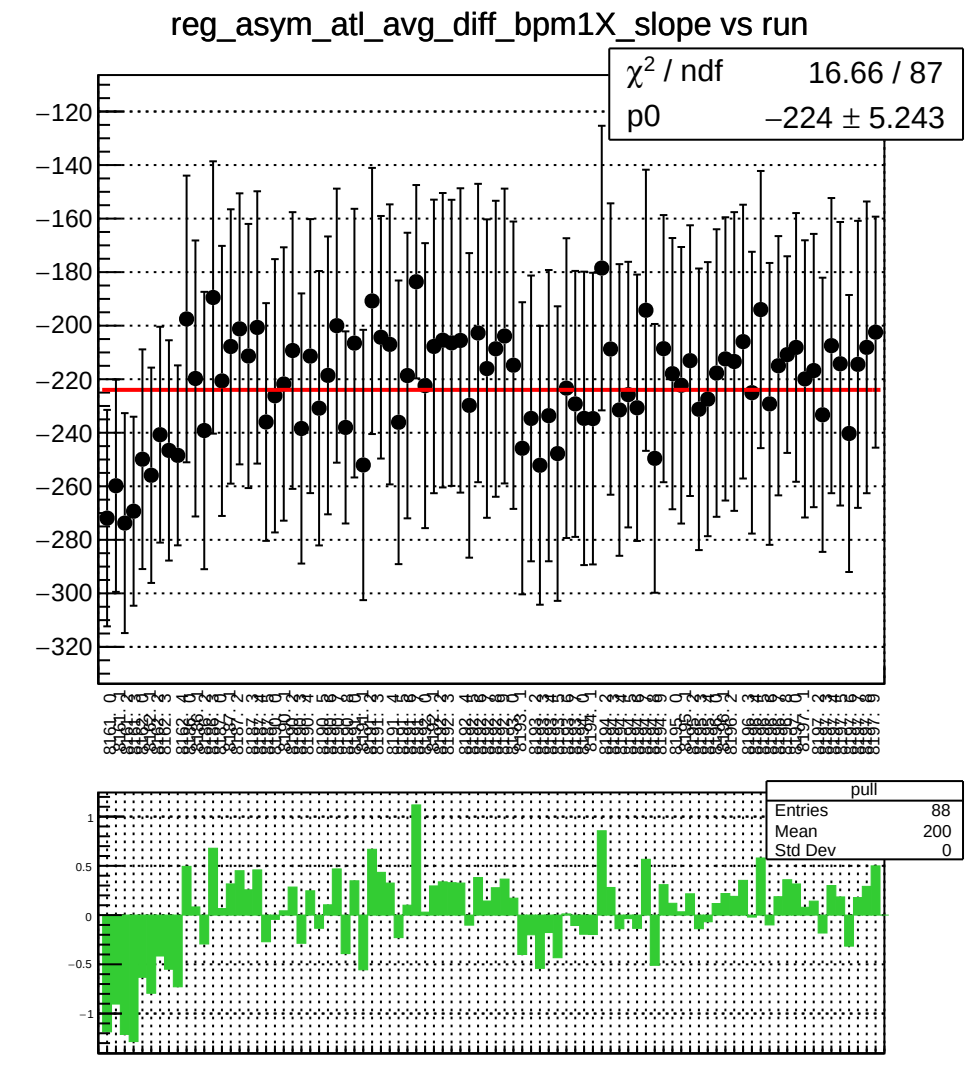

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.407 / 87
p0 168.7 ± 24.34
pull
Entries 88
Mean 315.6
Std Dev 0

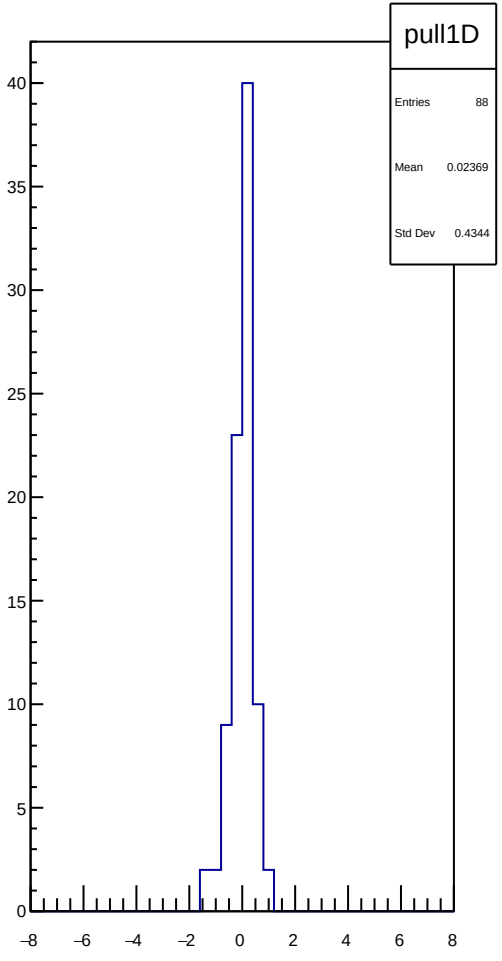

pull1D
Entries 88
Mean −0.006693
Std Dev 0.2237

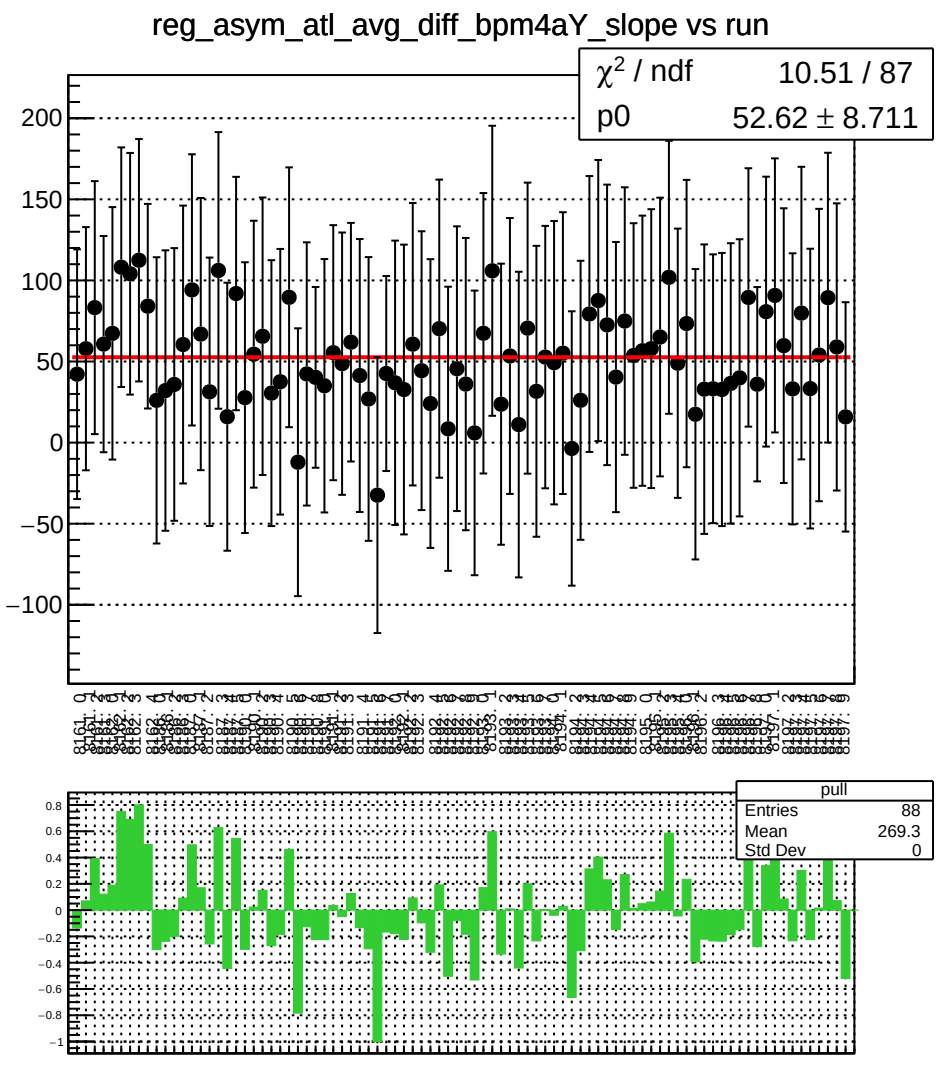

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 4.104 / 87
p0 619.2 ± 14.63
800
700
600
500
400
pull
Entries 88
Mean 200.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.009111
Std Dev 0.2158
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

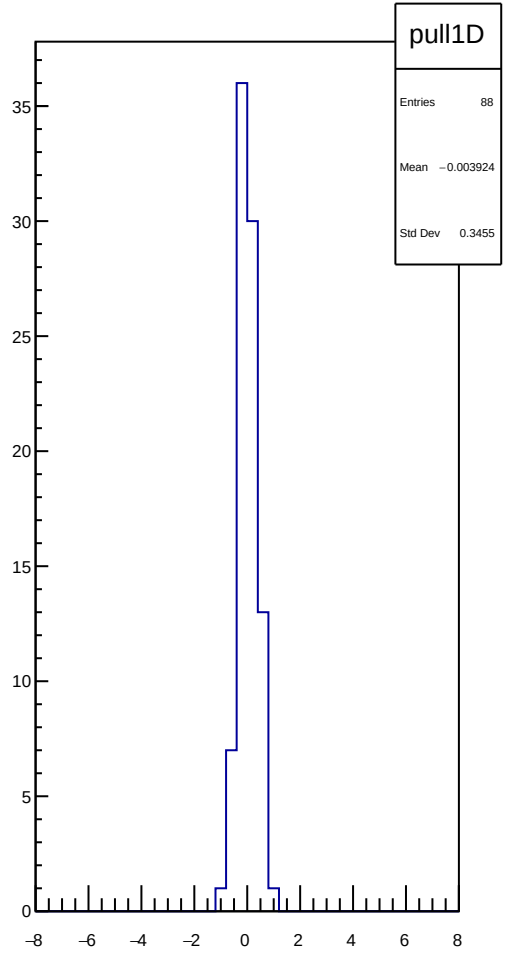

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.131 / 87
p0 −50.24 ± 26.23
pull
Entries 88
Mean 307.3
Std Dev 0
pull1D
Entries 88
Mean 0.005785
Std Dev 0.2166

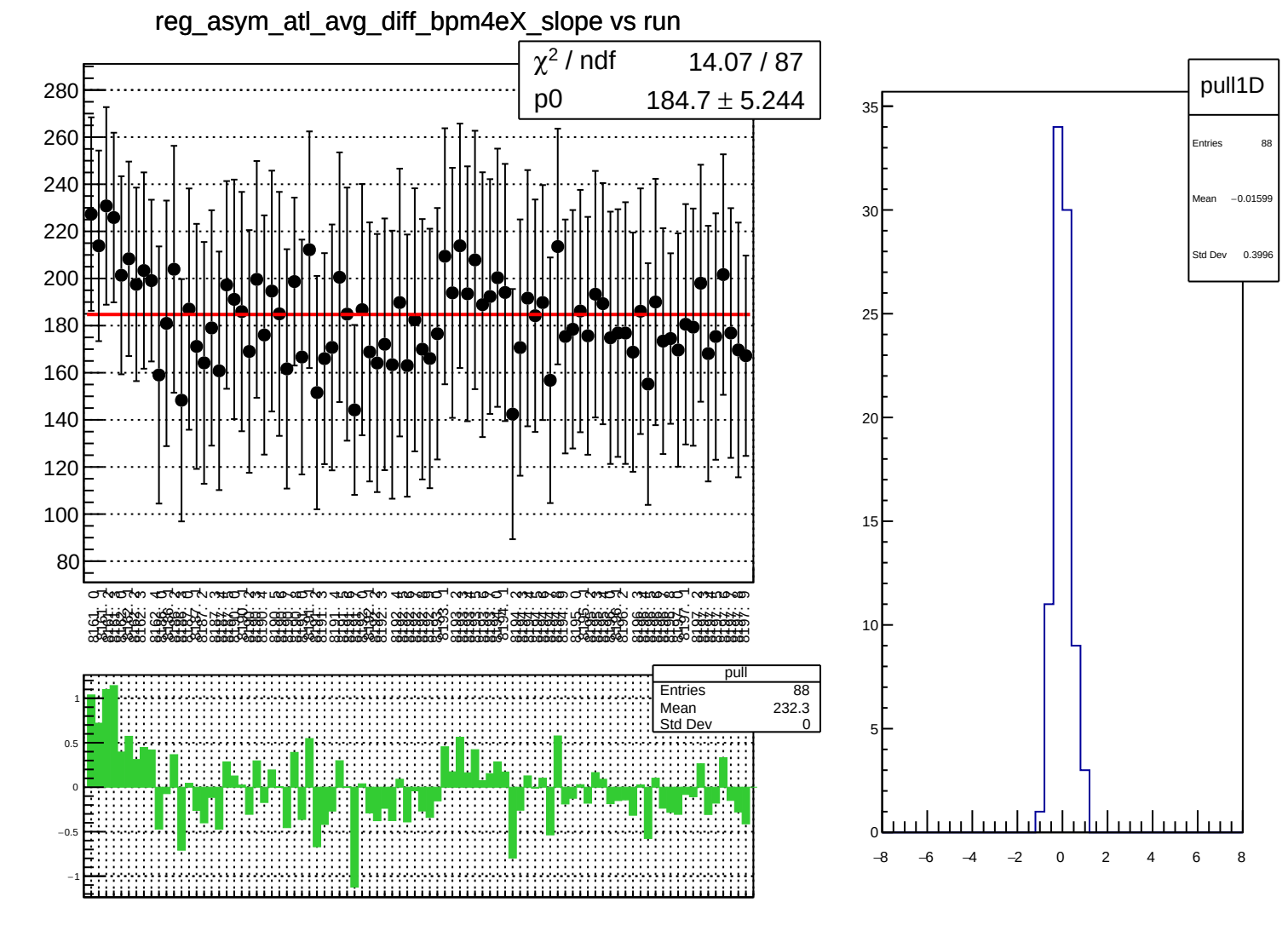

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 39.05 / 87
p0 −310.3 ± 1.187
pull
Entries 88
Mean 1738
Std Dev 0
pull1D
Entries 88
Mean 0.005749
Std Dev 0.6661

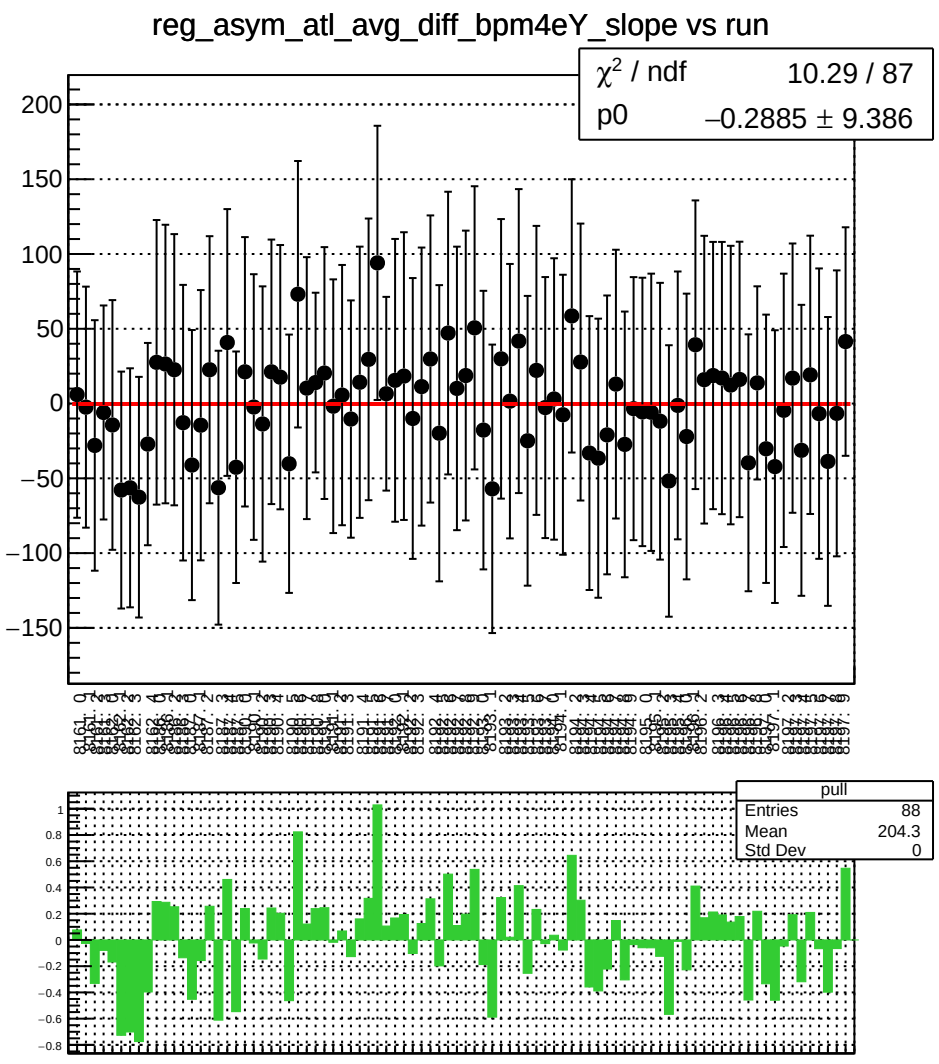

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 16.66 / 87
p0 −224 ± 5.243
pull
Entries 88
Mean 200
Std Dev 0

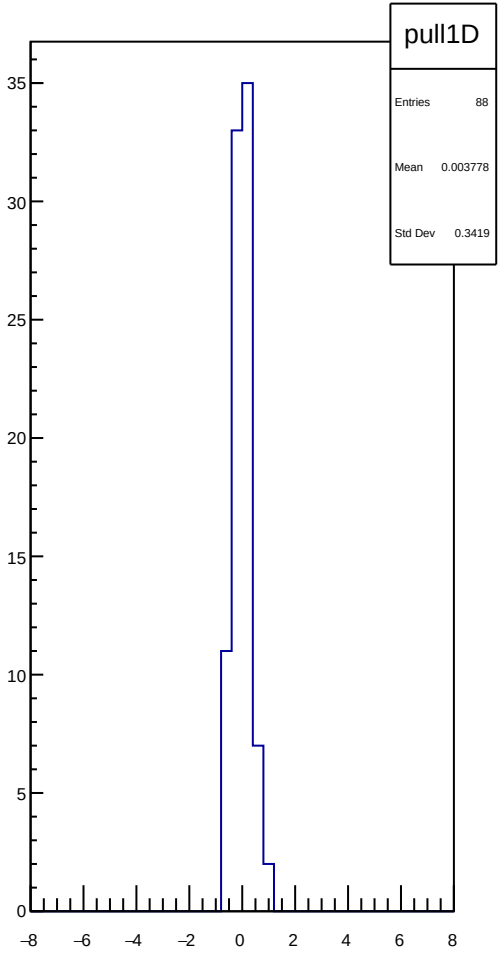

pull1D
Entries 88
Mean 0.02369
Std Dev 0.4344

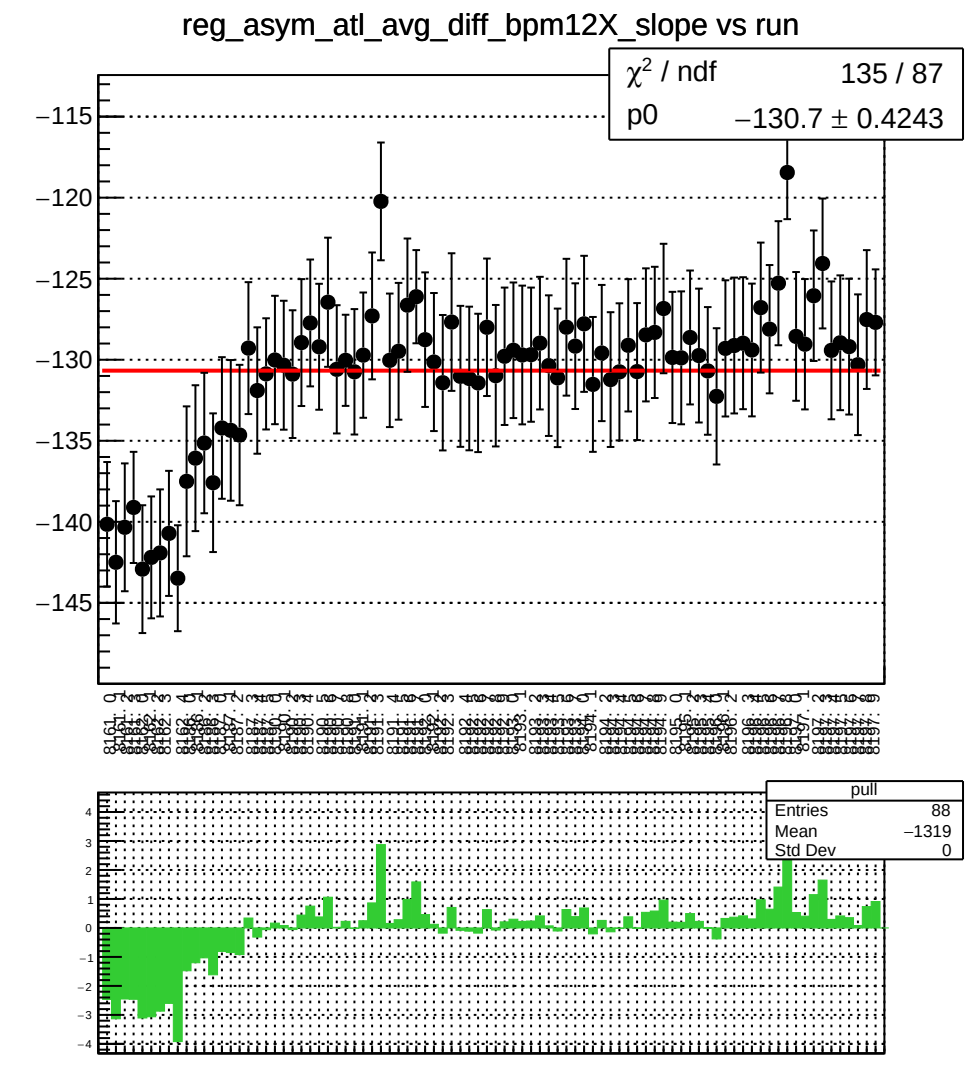

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.51 / 87
p0 52.62 ± 8.711
pull
Entries 88
Mean 269.3
Std Dev 0

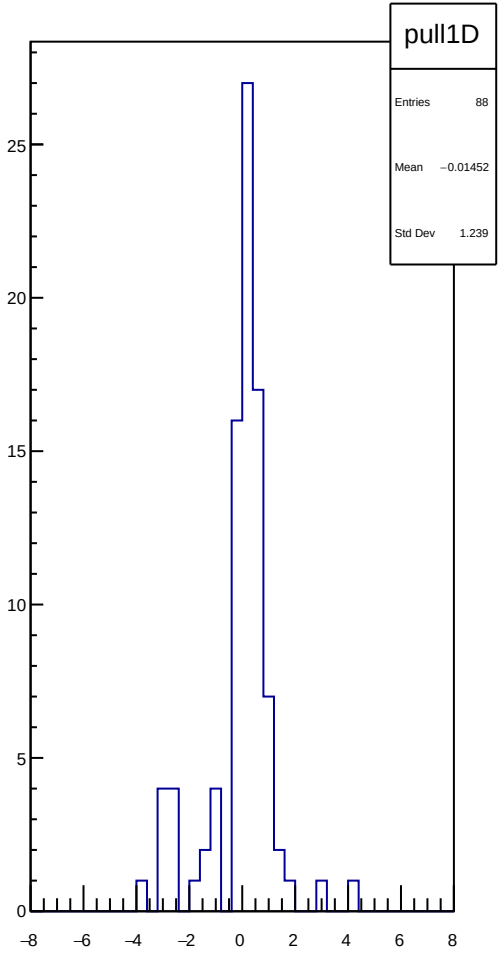

pull1D
Entries 88
Mean −0.003924
Std Dev 0.3455

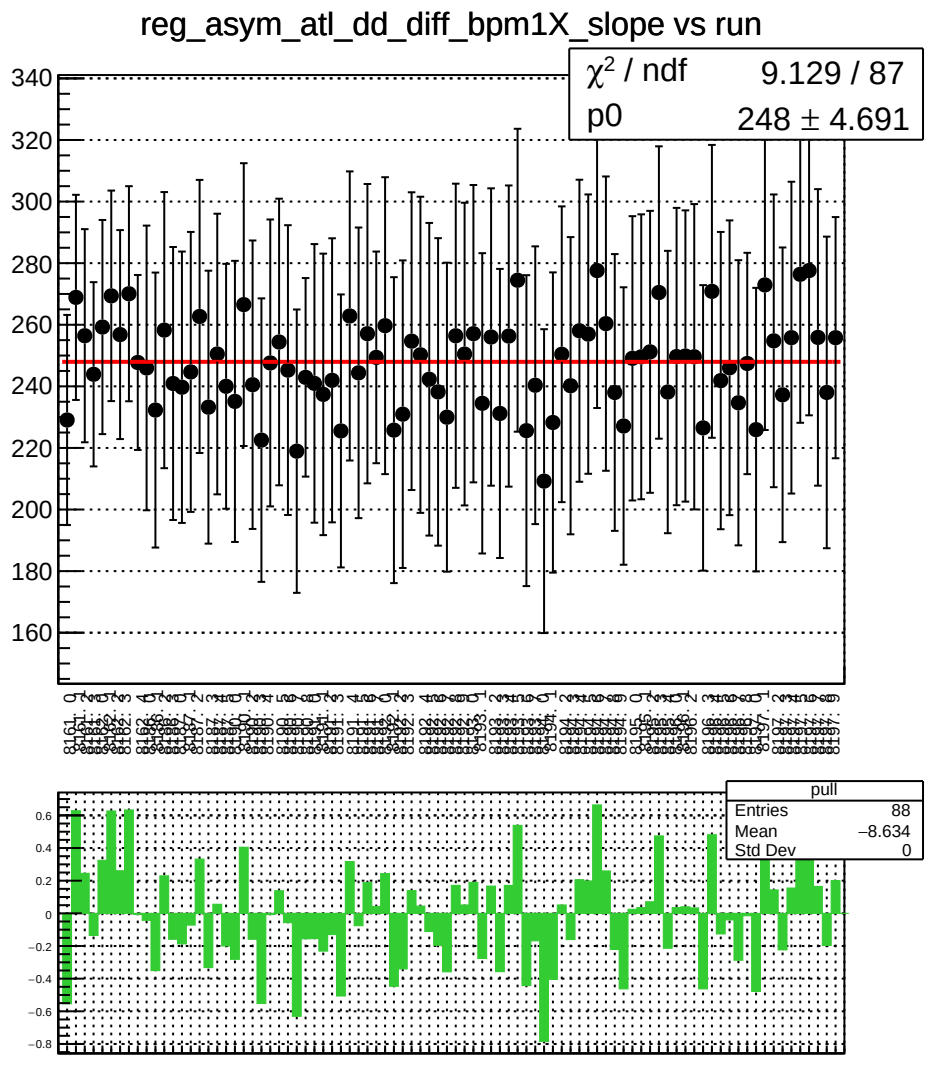

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.07 / 87
p0 184.7 ± 5.244
pull
Entries 88
Mean 232.3
Std Dev 0
pull1D
Entries 88
Mean −0.01599
Std Dev 0.3996

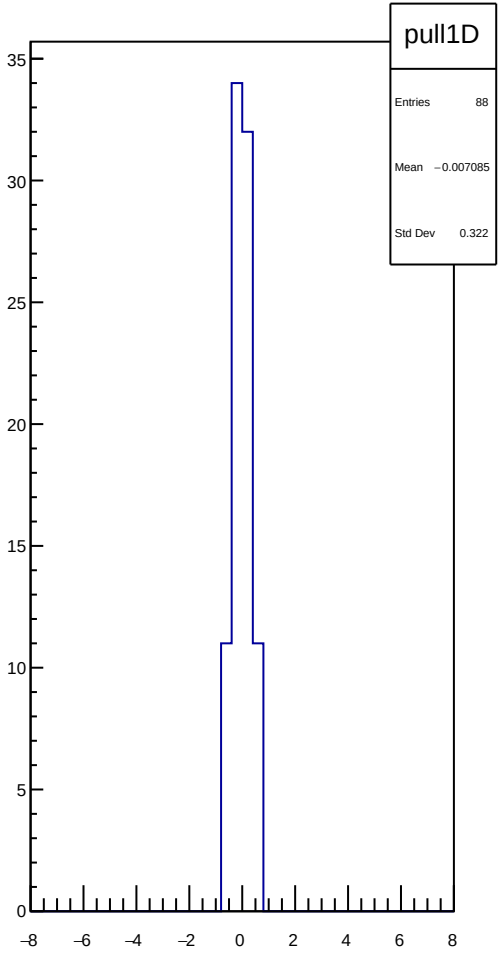

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.29 / 87
p0 −0.2885 ± 9.386
pull
Entries 88
Mean 204.3
Std Dev 0

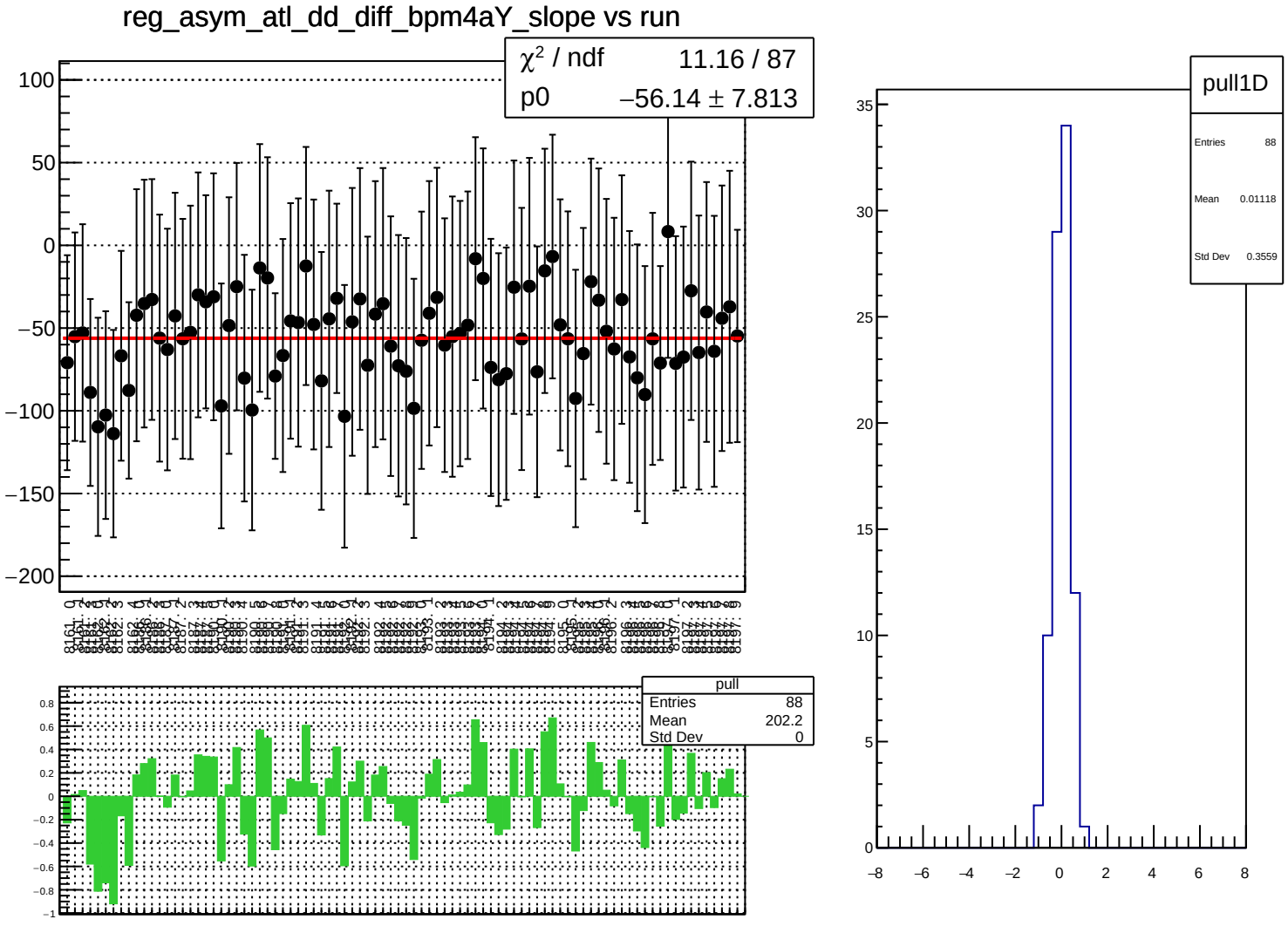

pull1D
Entries 88
Mean 0.003778
Std Dev 0.3419

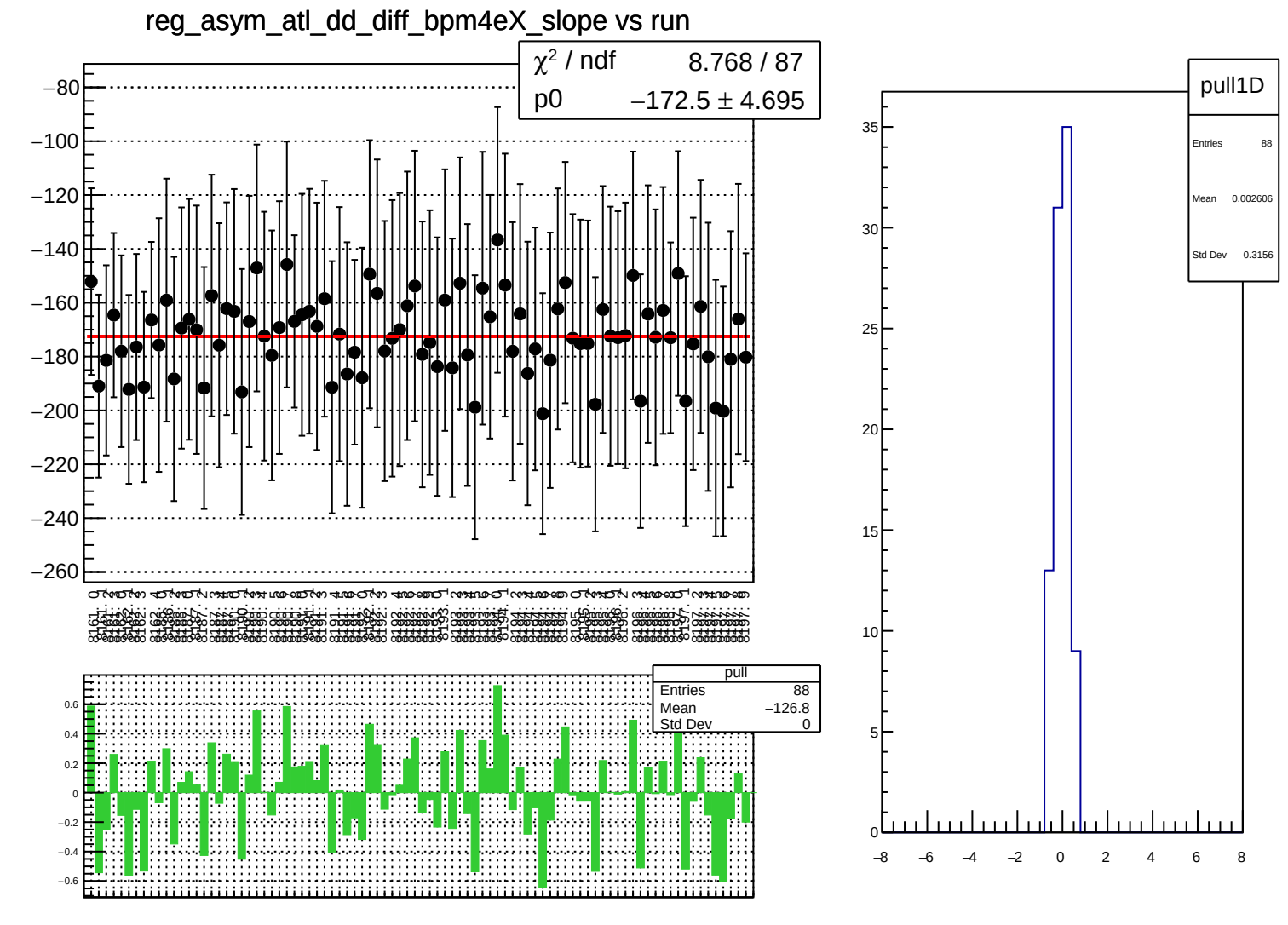

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 135 / 87
p0 −130.7 ± 0.4243
pull
Entries 88
Mean −1319
Std Dev 0

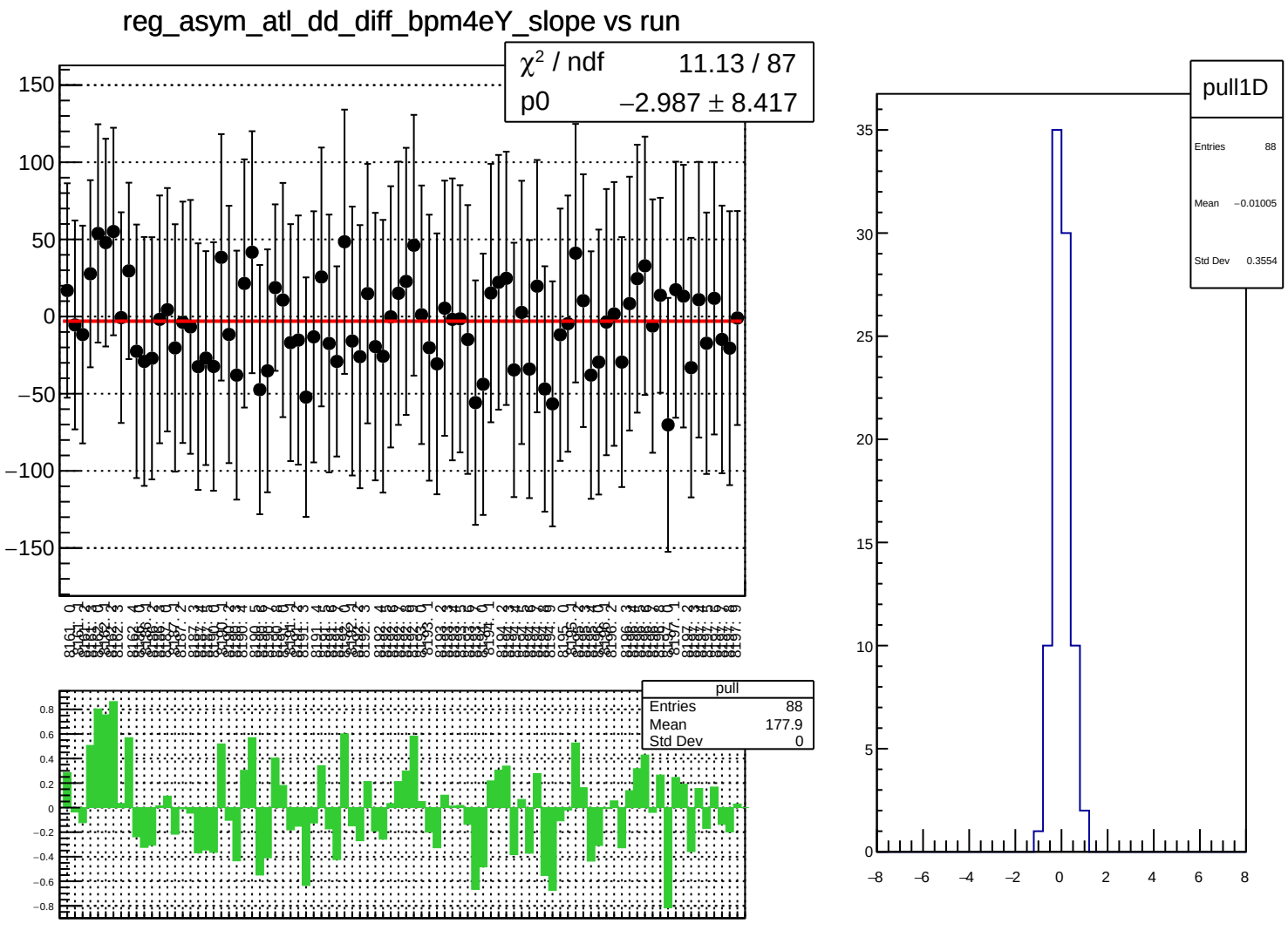

pull1D
Entries 88
Mean −0.01452
Std Dev 1.239

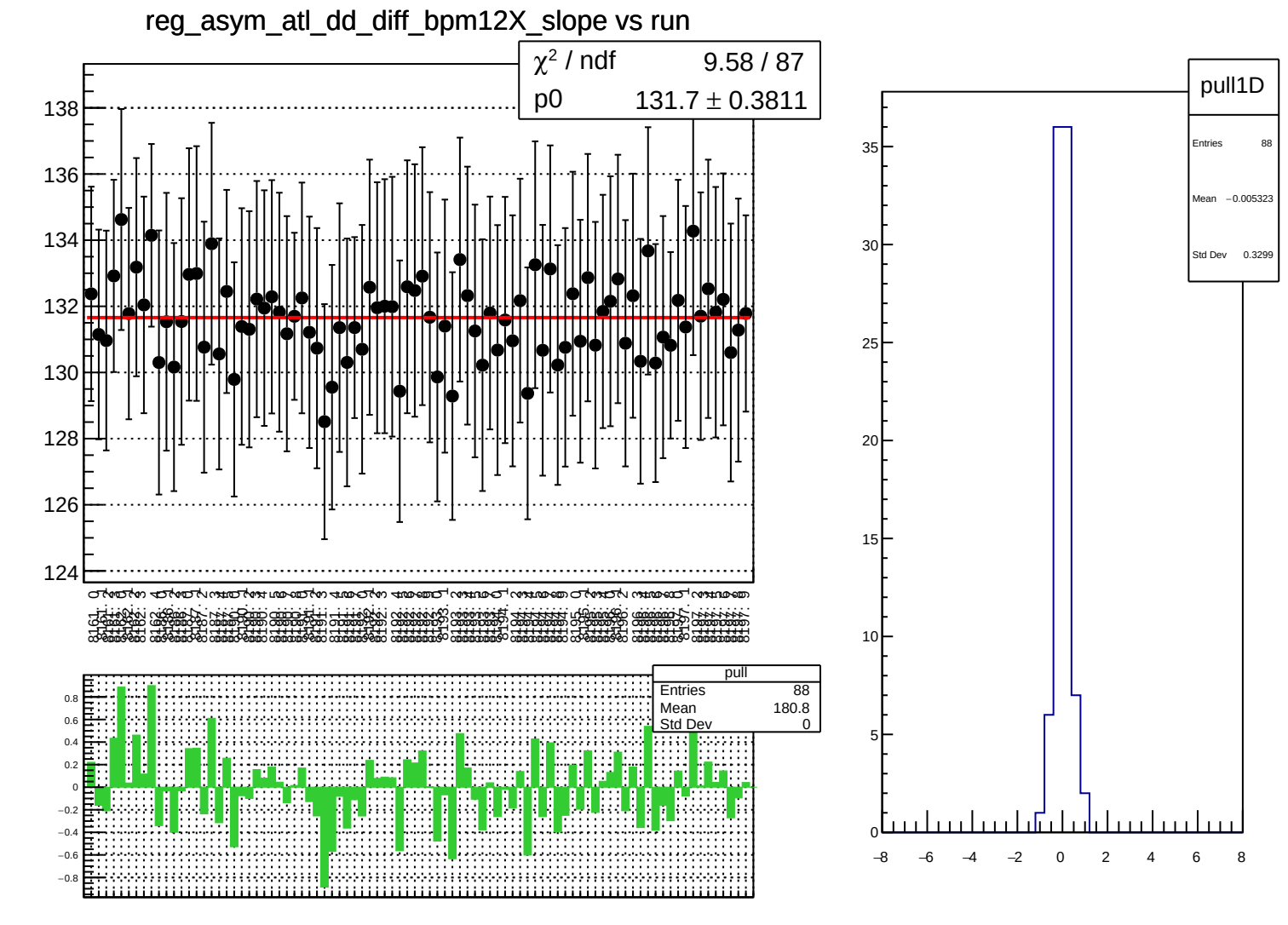

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 9.129 / 87
p0 248 ± 4.691
pull
Entries 88
Mean −8.634
Std Dev 0

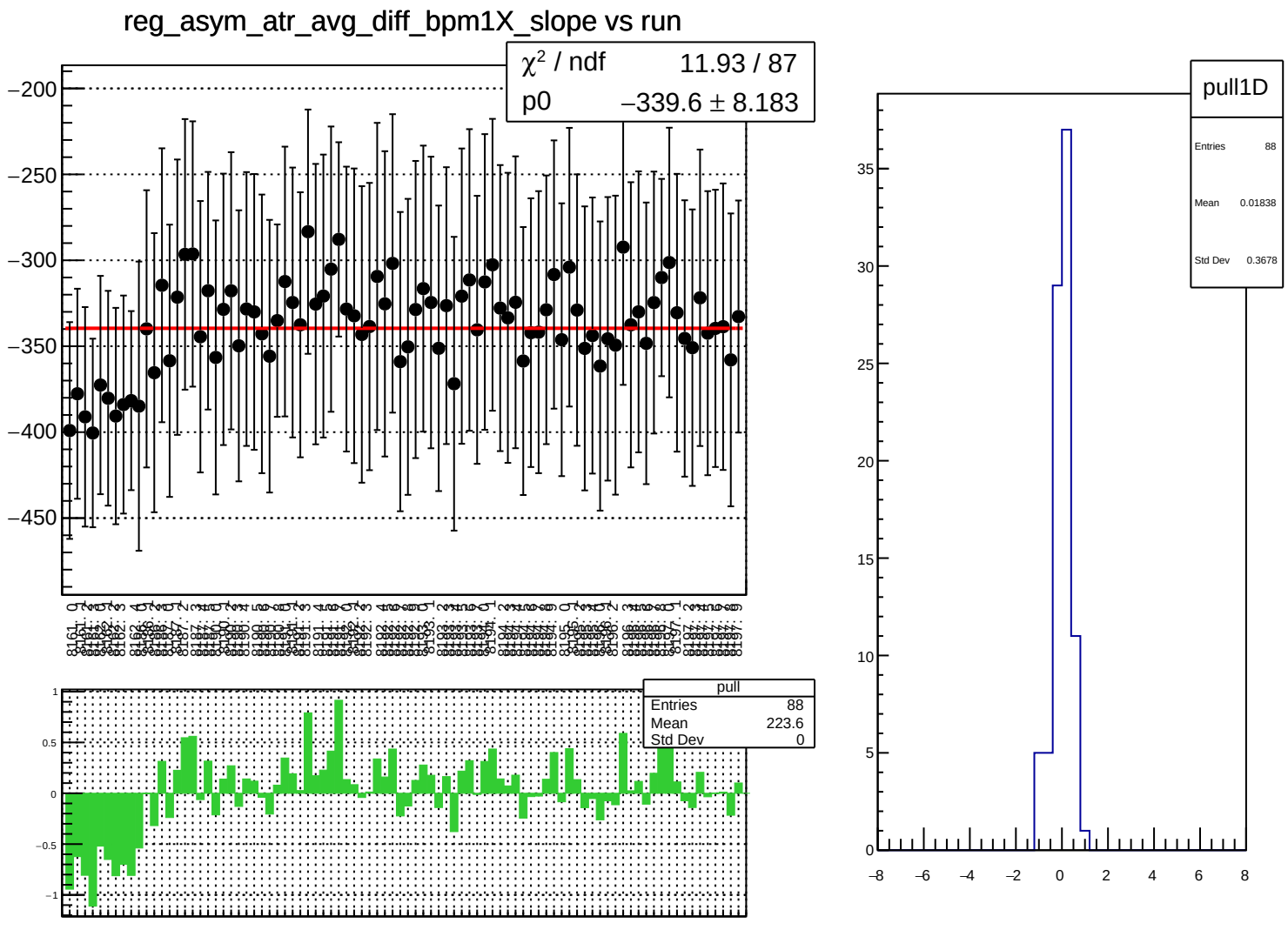

pull1D
Entries 88
Mean −0.007085
Std Dev 0.322

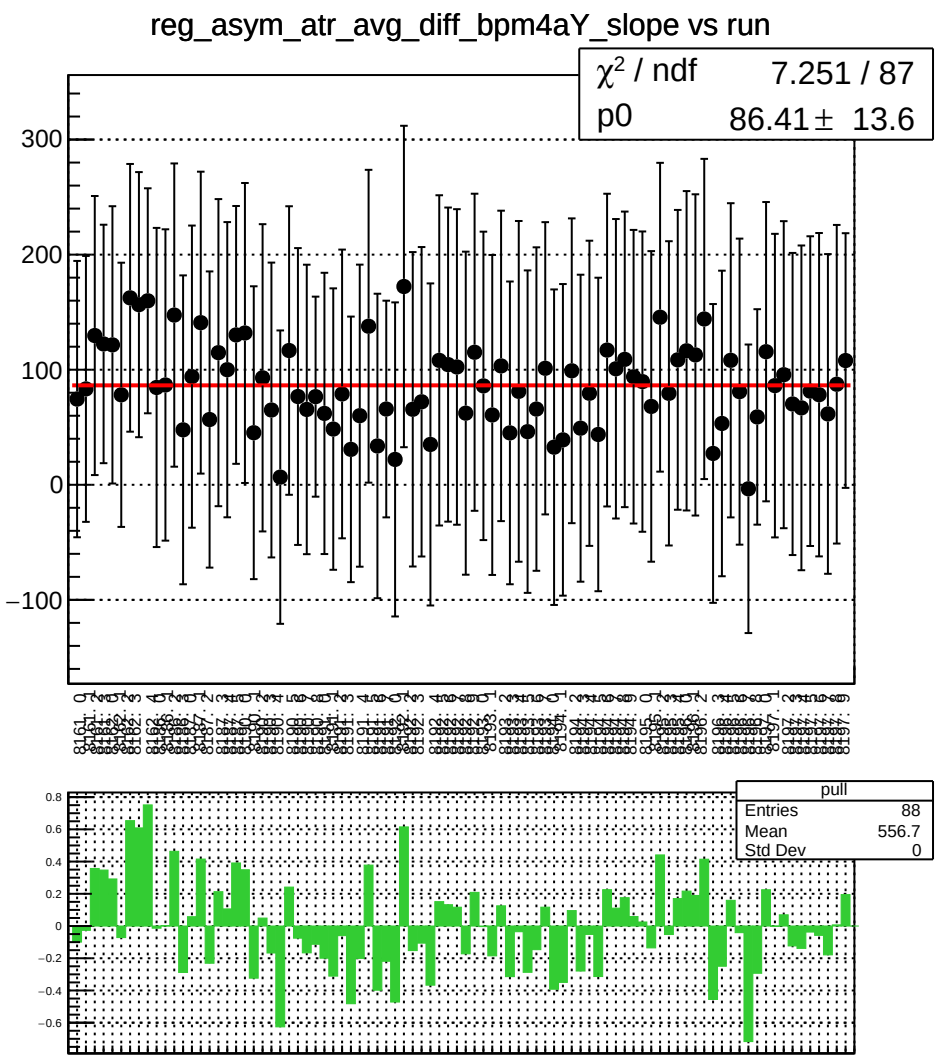

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.16 / 87
p0 −56.14 ± 7.813
pull
Entries 88
Mean 202.2
Std Dev 0
pull1D
Entries 88
Mean 0.01118
Std Dev 0.3559

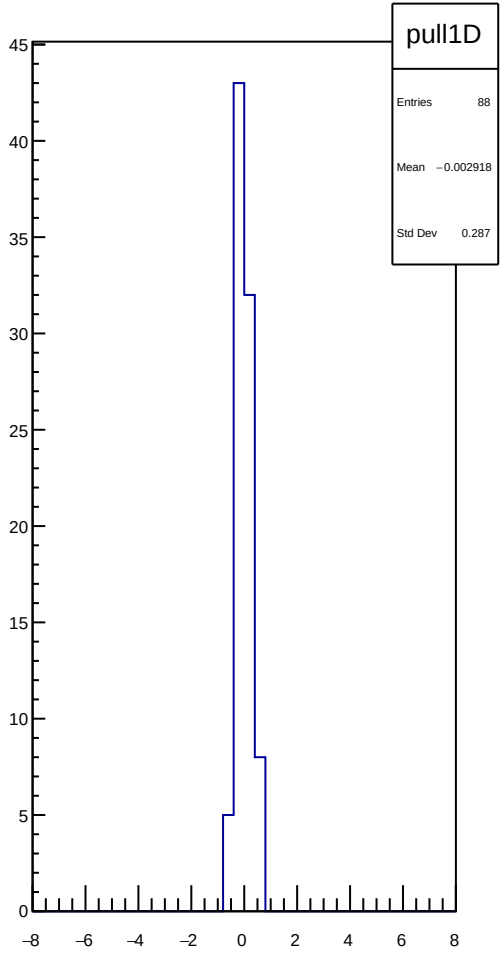

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.768 / 87
p0 −172.5 ± 4.695
pull
Entries 88
Mean −126.8
Std Dev 0
pull1D
Entries 88
Mean 0.002606
Std Dev 0.3156

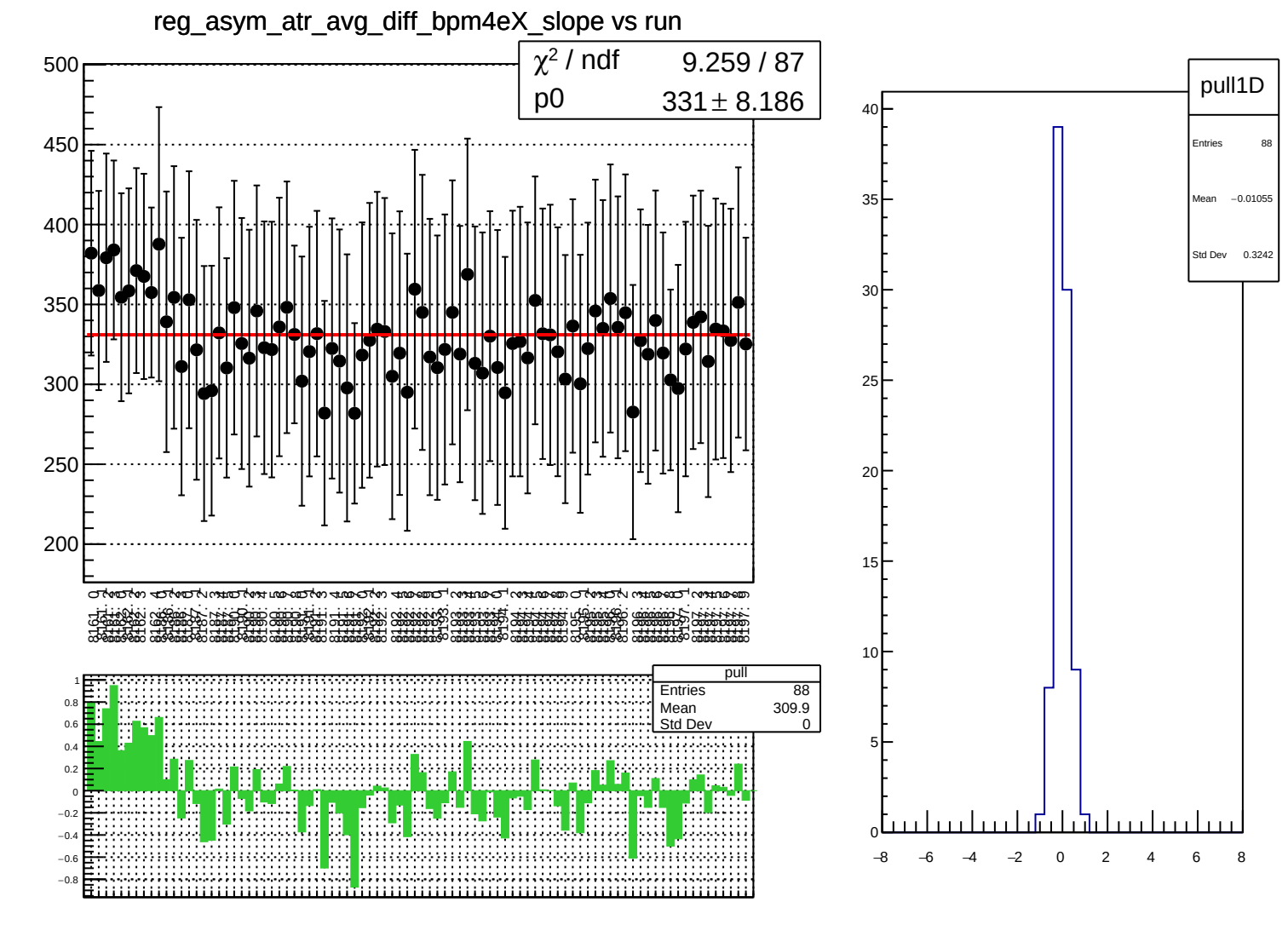

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.13 / 87
p0 −2.987 ± 8.417
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 177.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.01005
Std Dev 0.3554
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

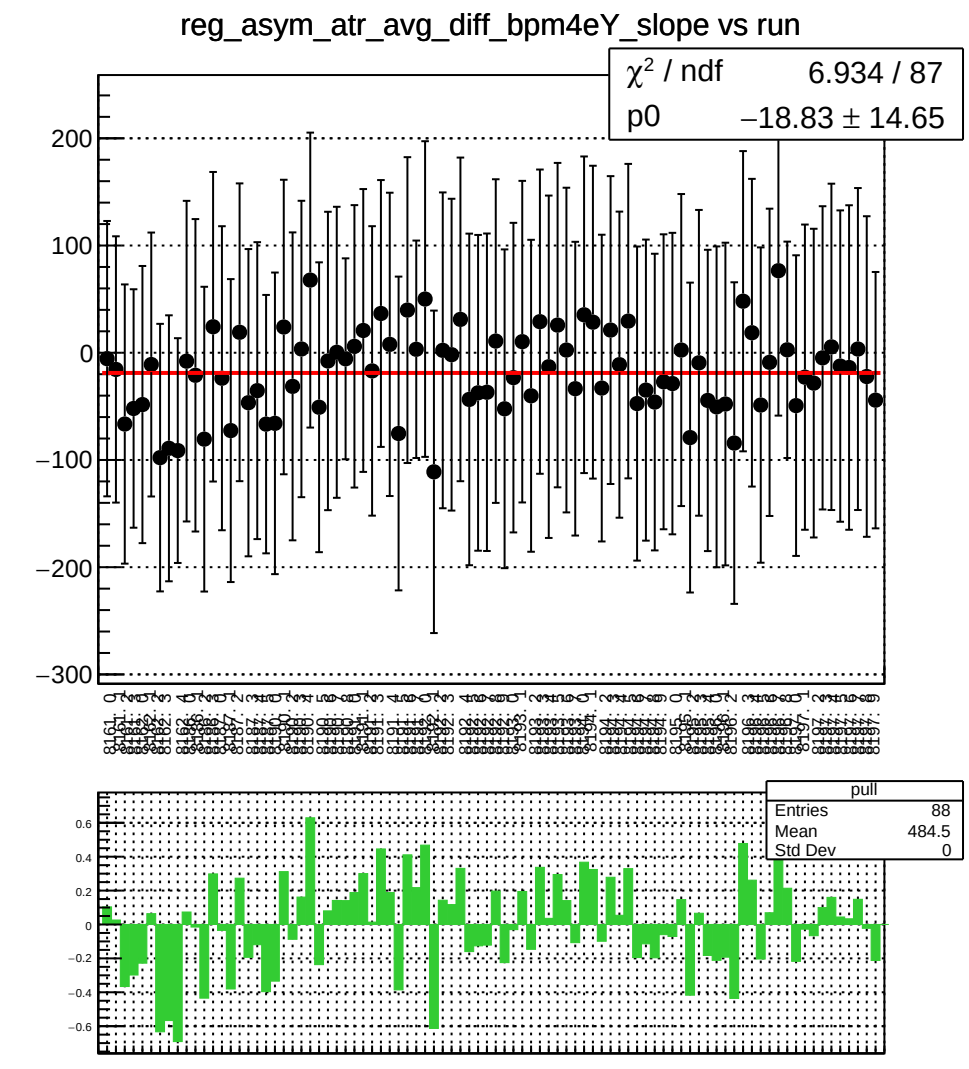

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 9.58 / 87
p0 131.7 ± 0.3811
pull
Entries 88
Mean 180.8
Std Dev 0
pull1D
Entries 88
Mean −0.005323
Std Dev 0.3299

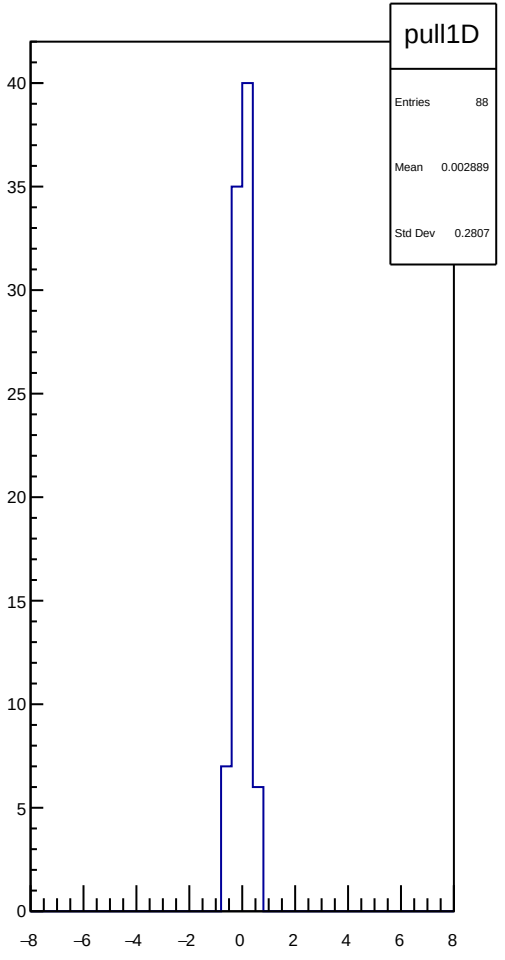

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 11.93 / 87
p0 −339.6 ± 8.183
−200
−250
−300
−350
−400
−450
pull
Entries 88
Mean 223.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.01838
Std Dev 0.3678
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

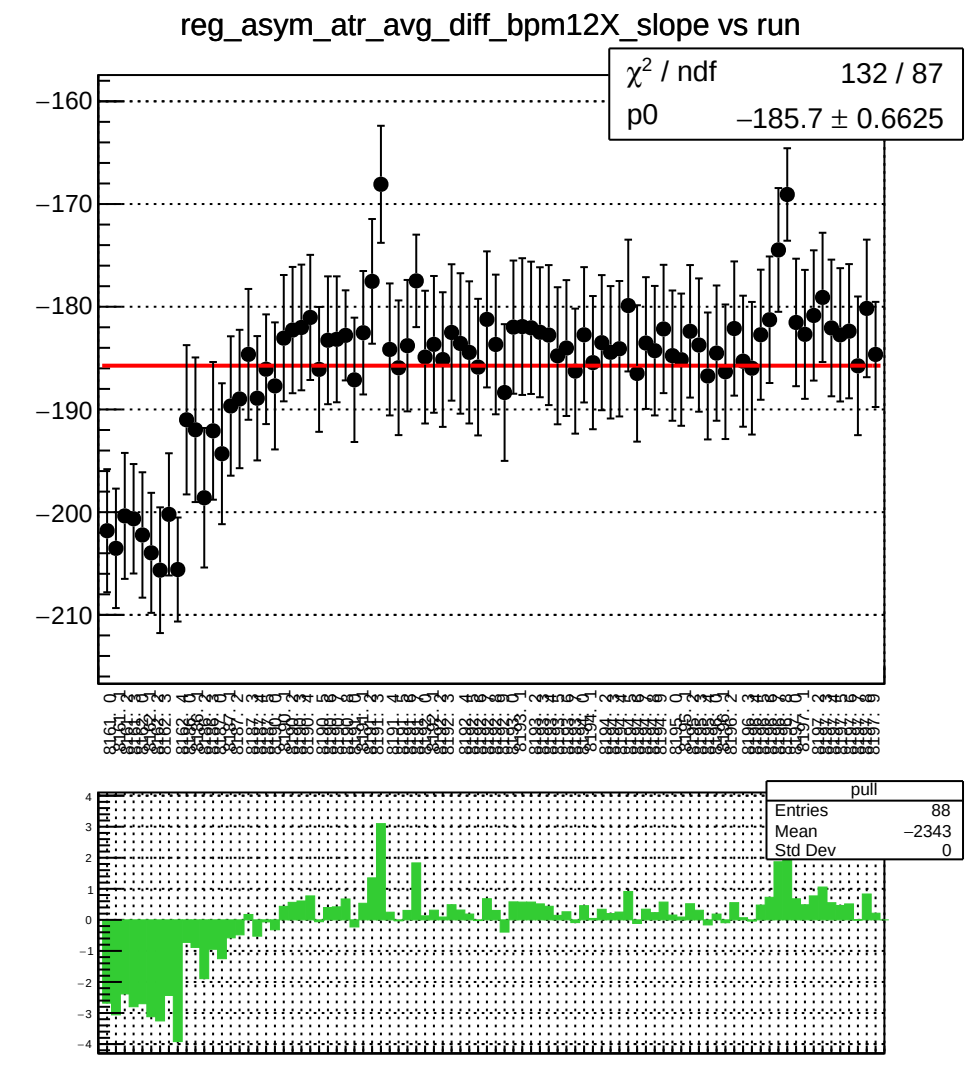

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.251 / 87
p0 86.41 ± 13.6
300
200
100
0
−100
pull
Entries 88
Mean 556.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

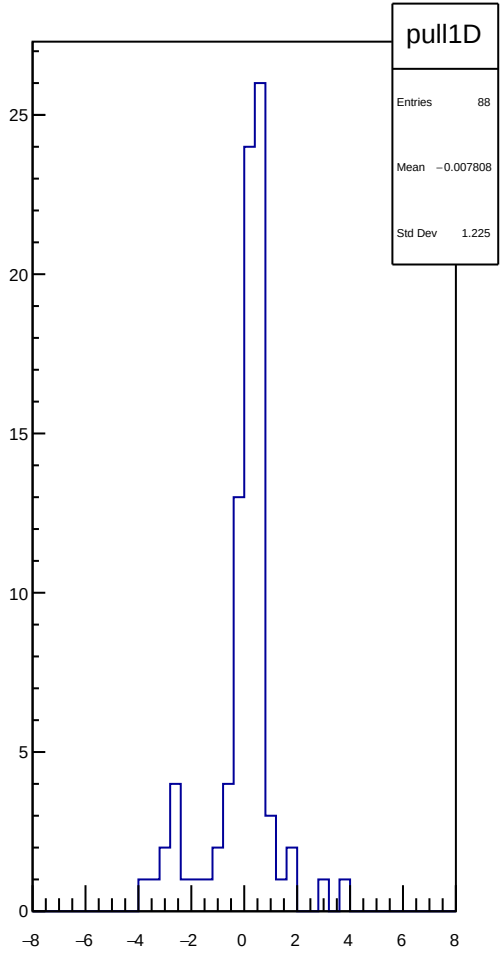

pull1D
Entries 88
Mean −0.002918
Std Dev 0.287
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

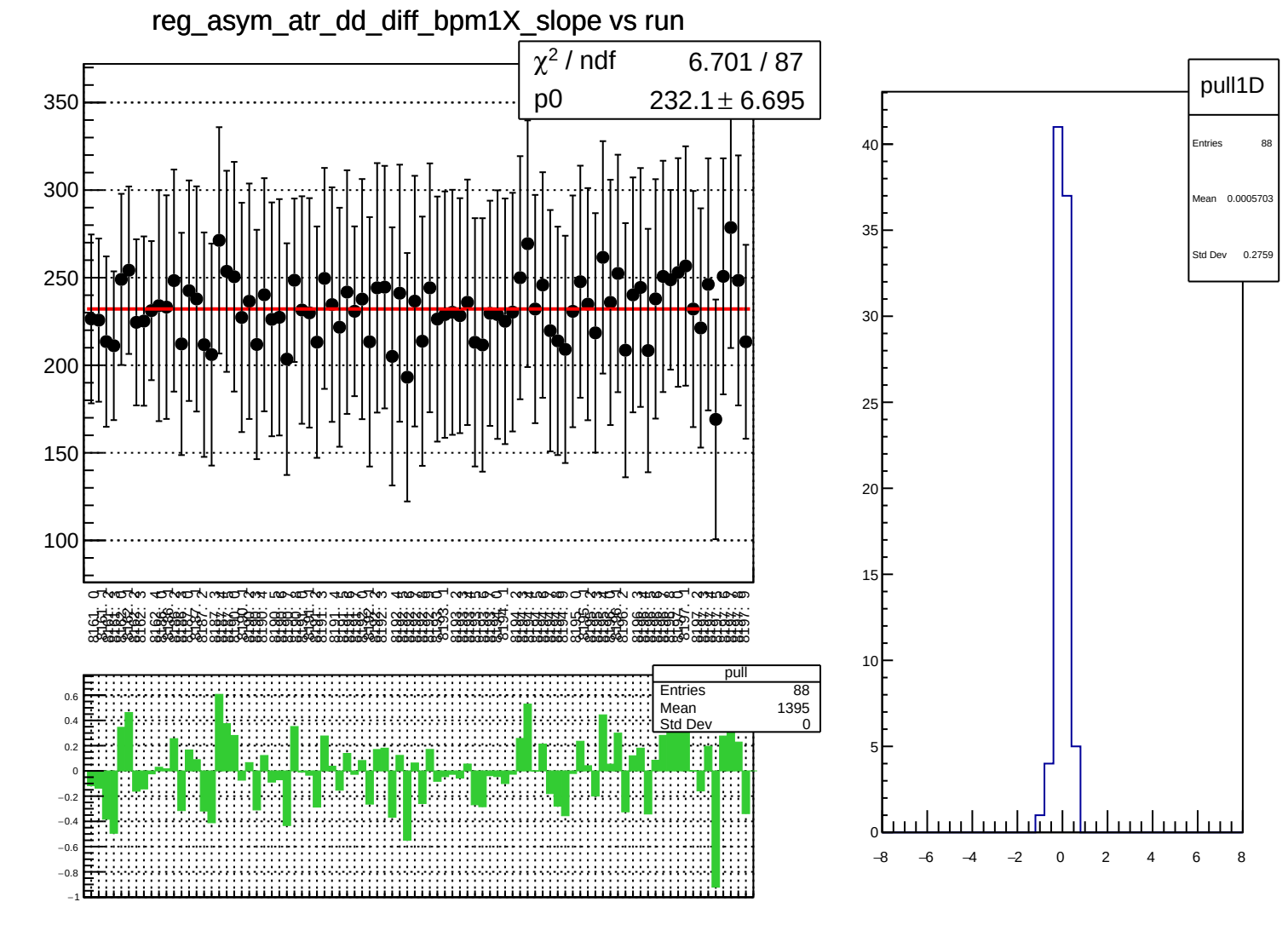

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.259 / 87
p0 331 ± 8.186
pull
Entries 88
Mean 309.9
Std Dev 0
pull1D
Entries 88
Mean −0.01055
Std Dev 0.3242

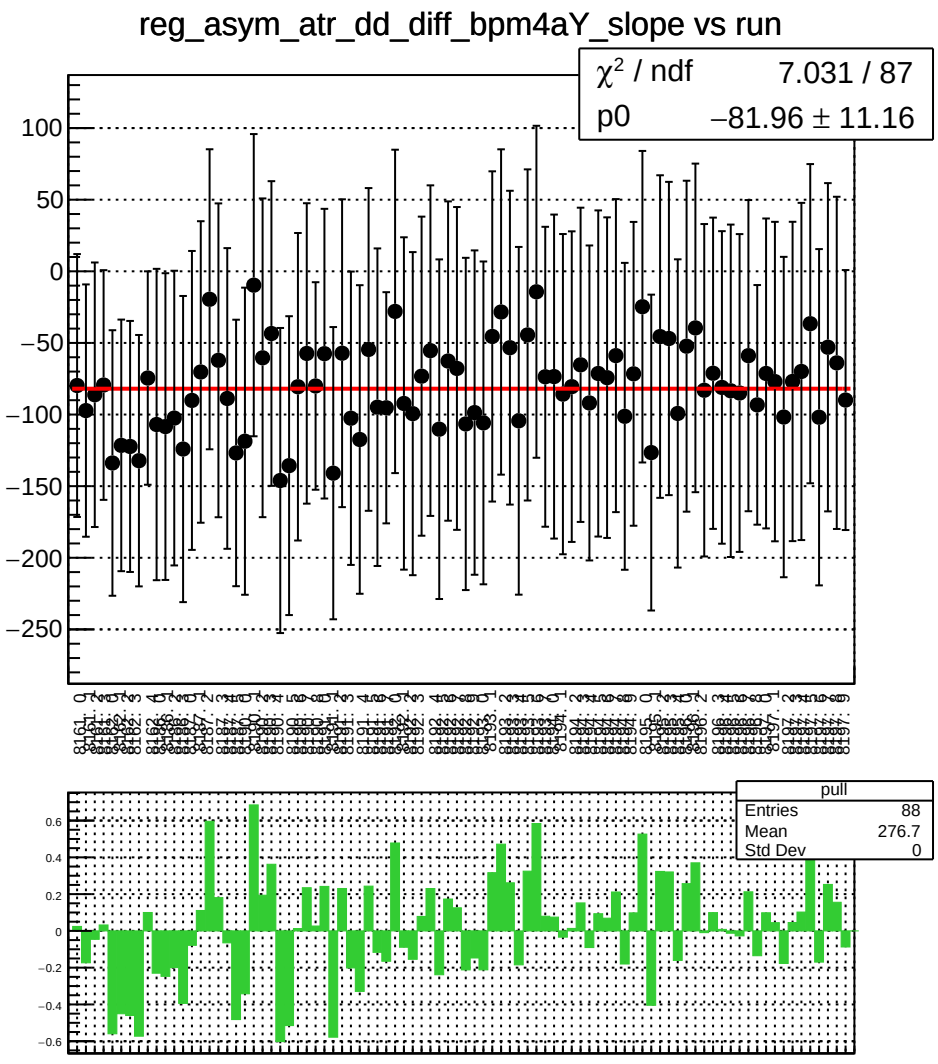

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.934 / 87
p0 −18.83 ± 14.65
200
100
0
−100
−200
−300
pull
Entries 88
Mean 484.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

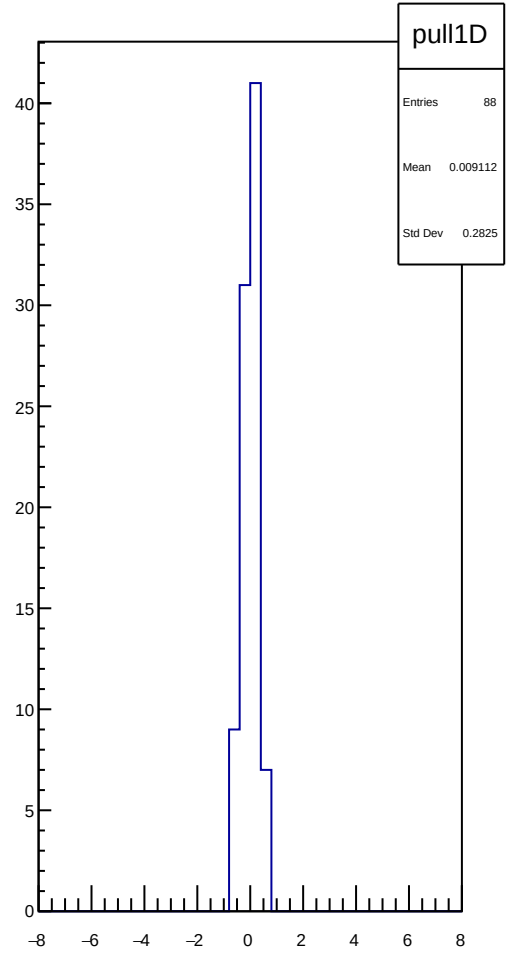

pull1D
Entries 88
Mean 0.002889
Std Dev 0.2807
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

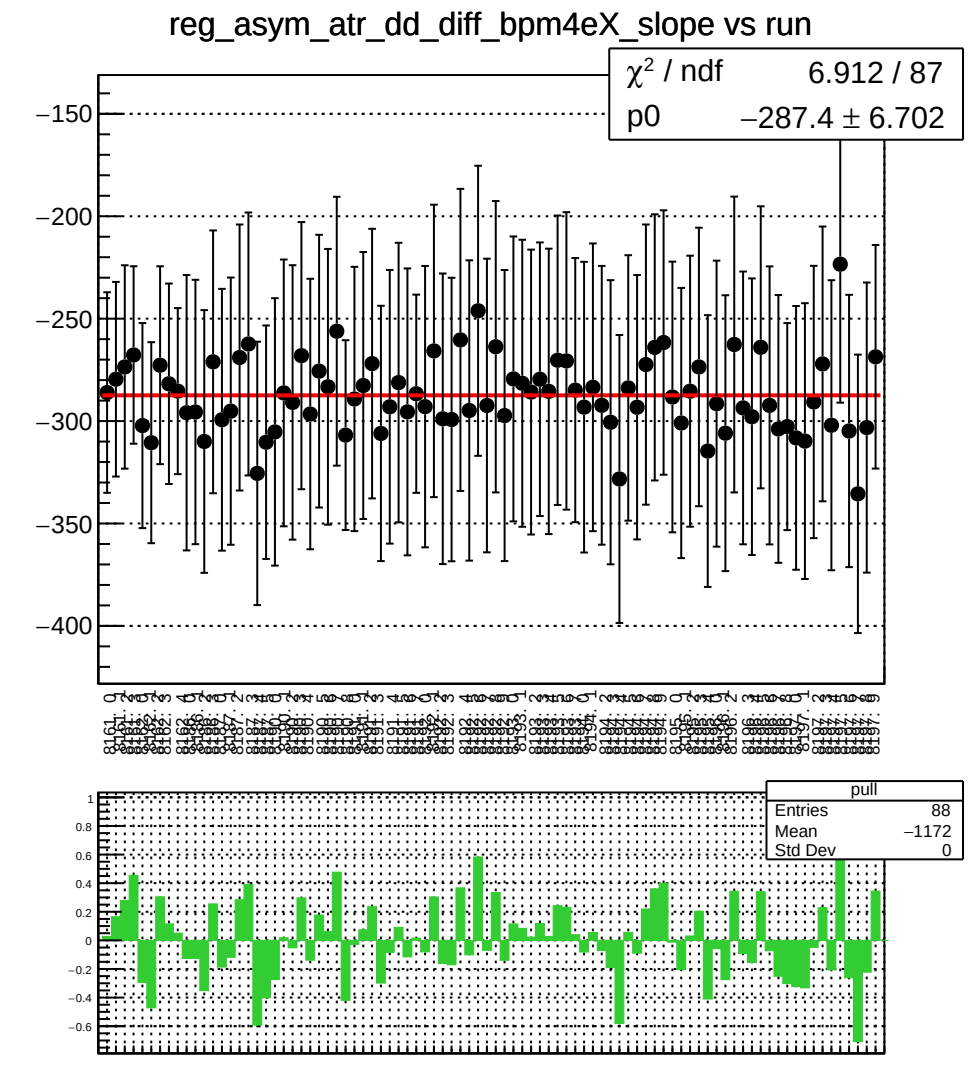

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 132 / 87
p0 −185.7 ± 0.6625
−160
−170
−180
−190
−200
−210
pull
Entries 88
Mean −2343
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

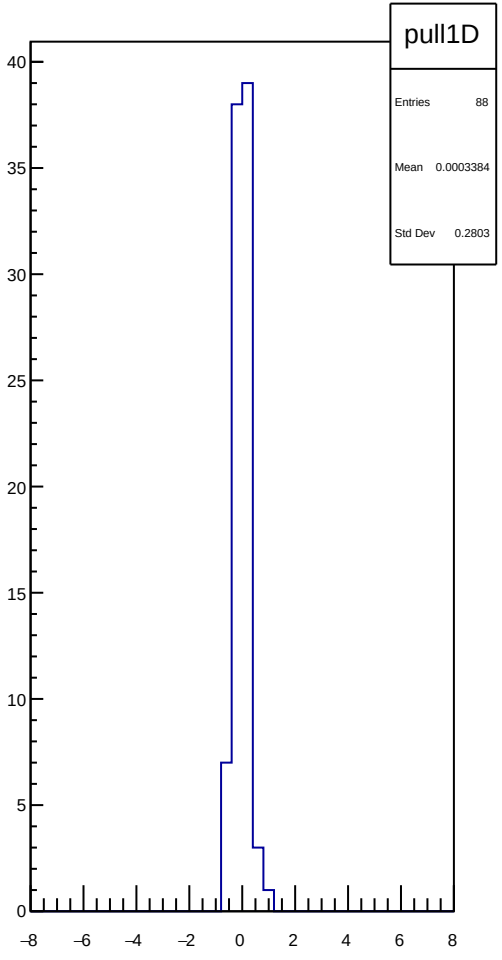

pull1D
Entries 88
Mean −0.007808
Std Dev 1.225
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

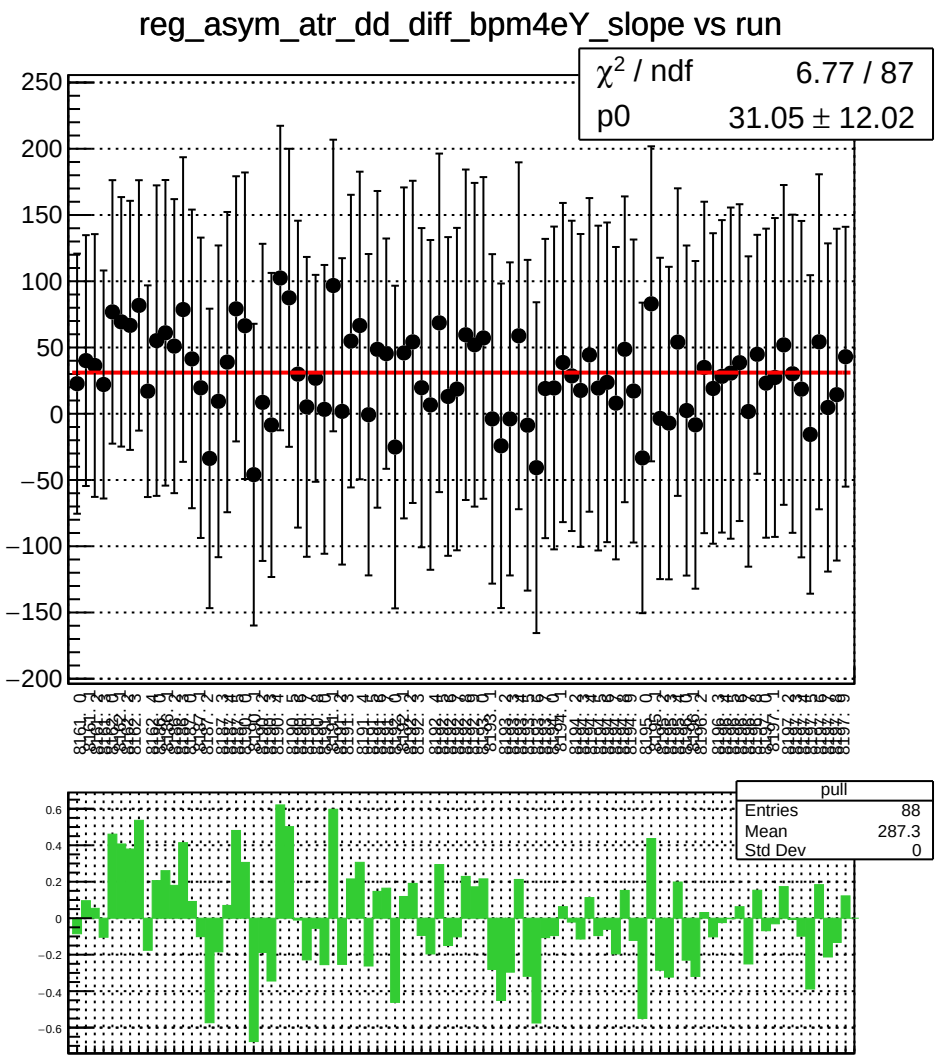

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 6.701 / 87
p0 232.1 ± 6.695
pull
Entries 88
Mean 1395
Std Dev 0
pull1D
Entries 88
Mean 0.0005703
Std Dev 0.2759

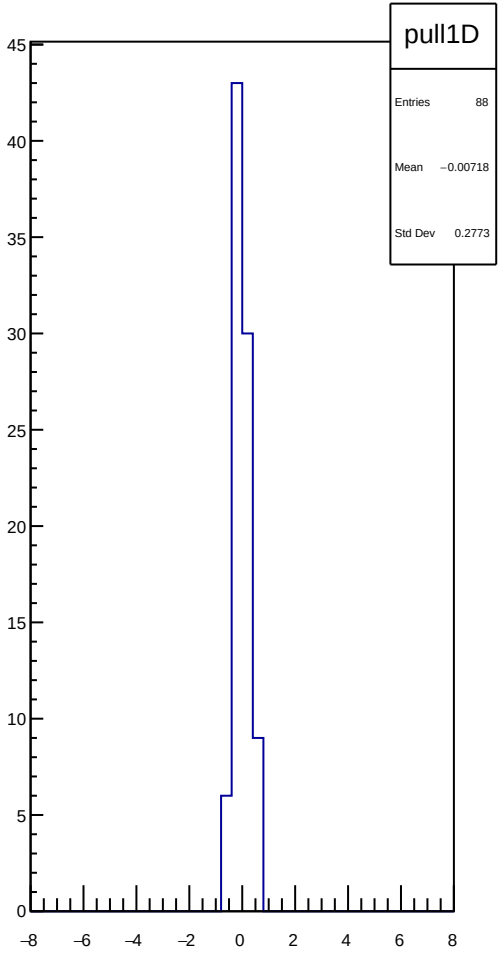

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.031 / 87
p0 −81.96 ± 11.16
pull
Entries 88
Mean 276.7
Std Dev 0

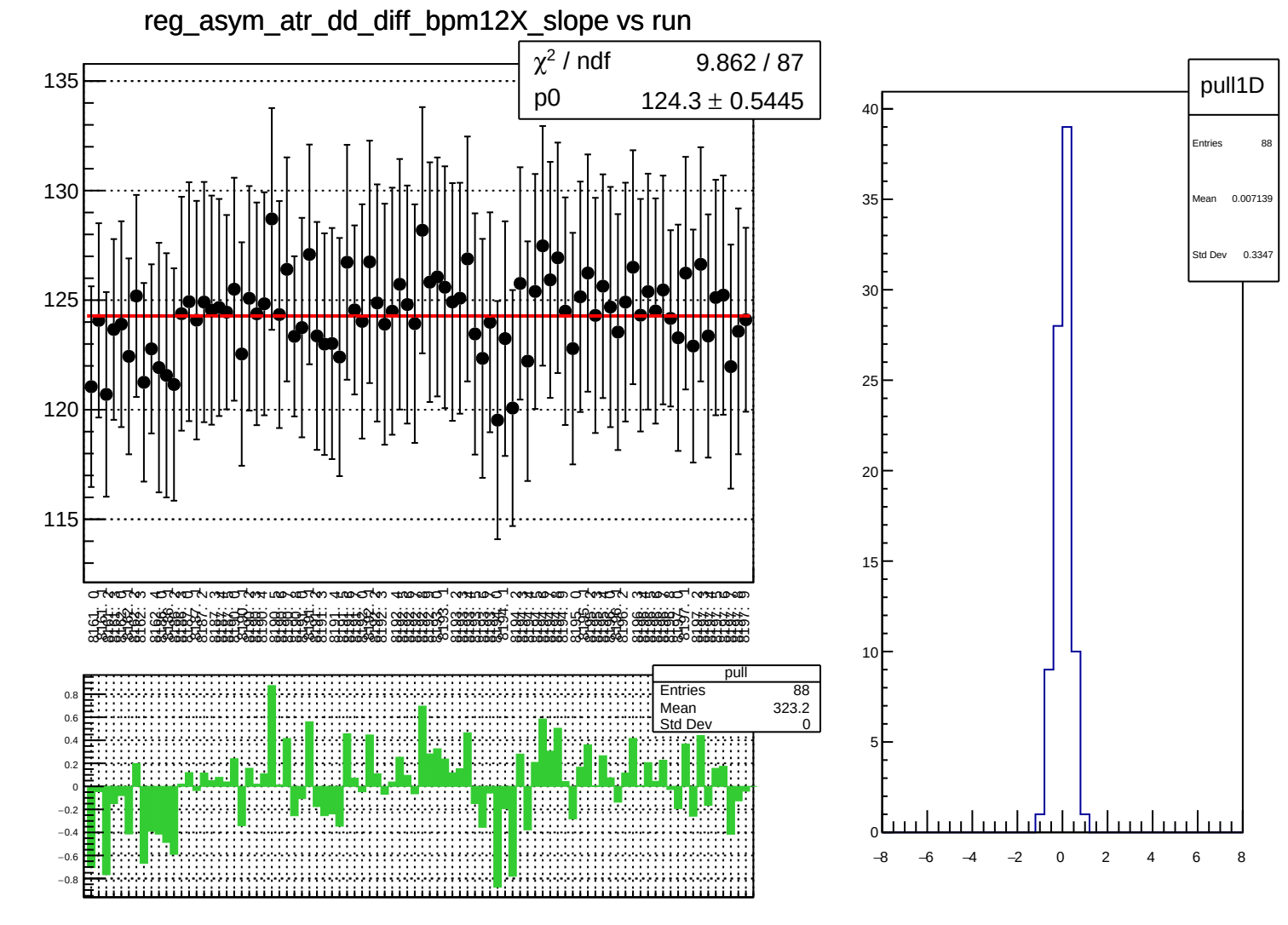

pull1D
Entries 88
Mean 0.009112
Std Dev 0.2825

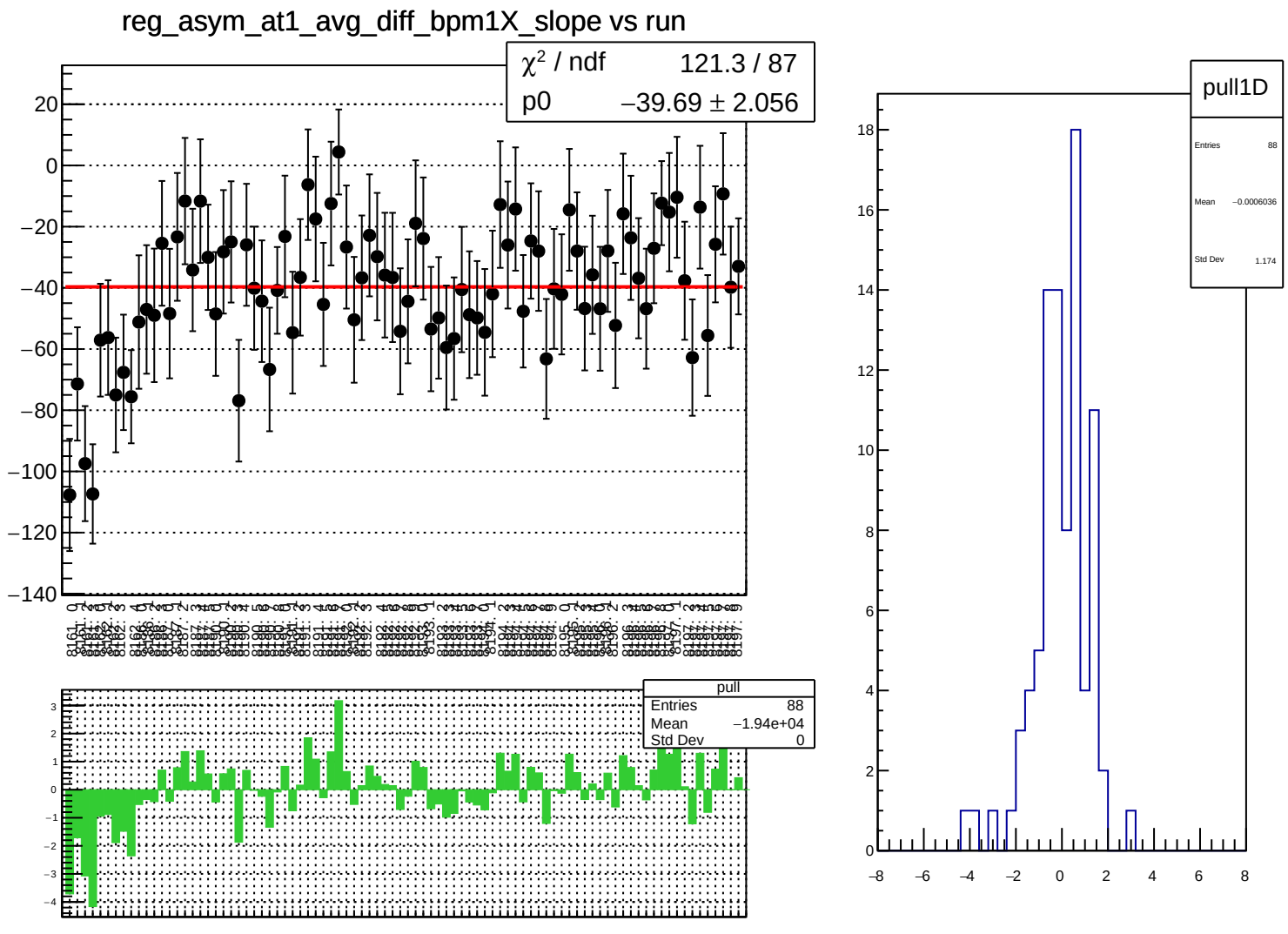

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.912 / 87
p0 −287.4 ± 6.702
pull
Entries 88
Mean −1172
Std Dev 0

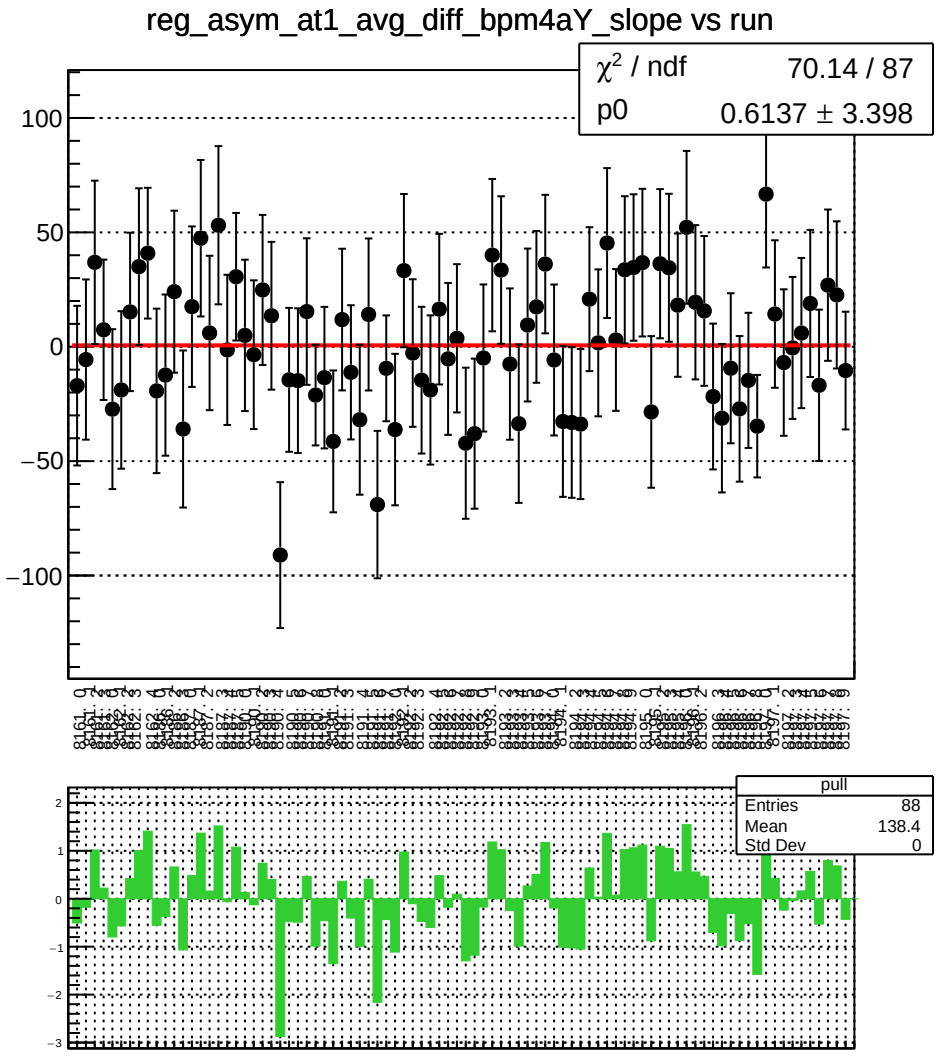

pull1D
Entries 88
Mean 0.0003384
Std Dev 0.2803

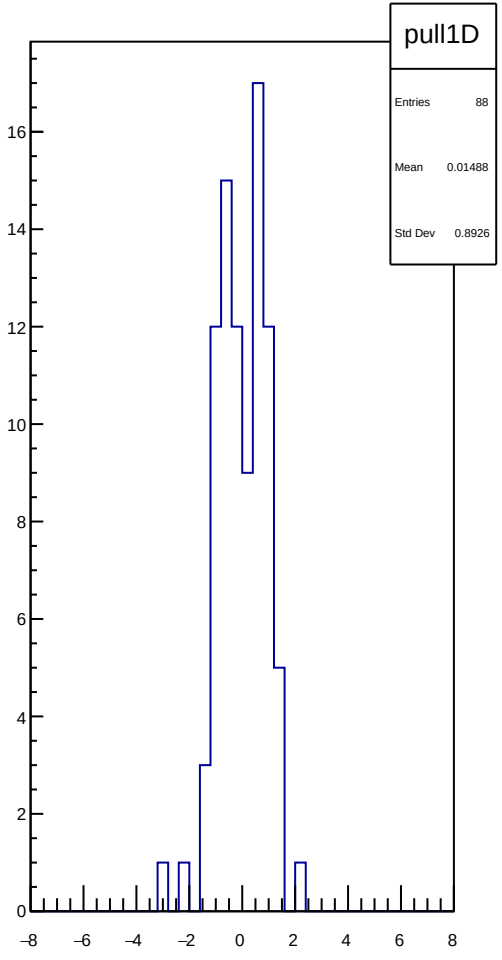

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.77 / 87
p0 31.05 ± 12.02
pull
Entries 88
Mean 287.3
Std Dev 0

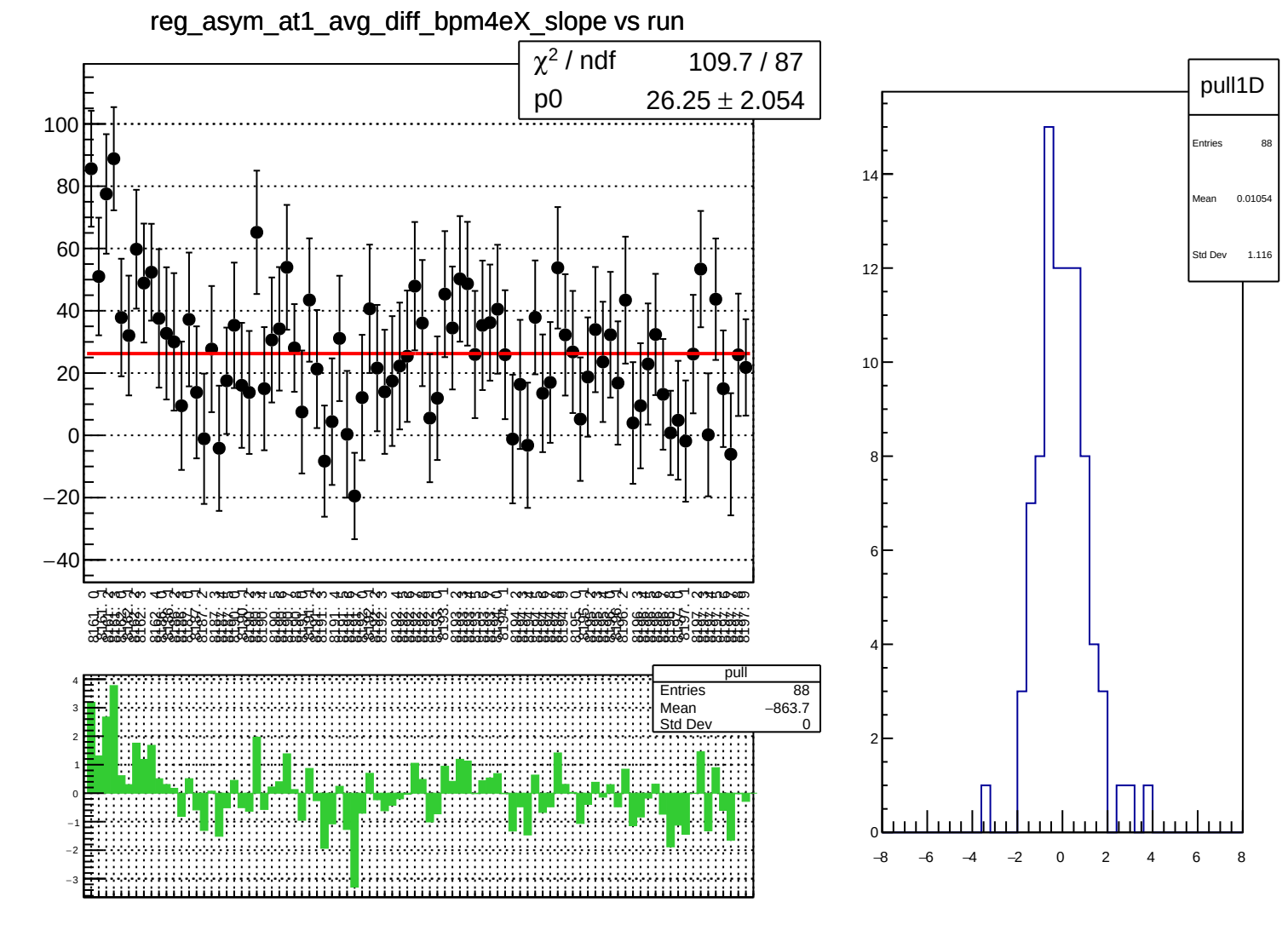

pull1D
Entries 88
Mean −0.00718
Std Dev 0.2773

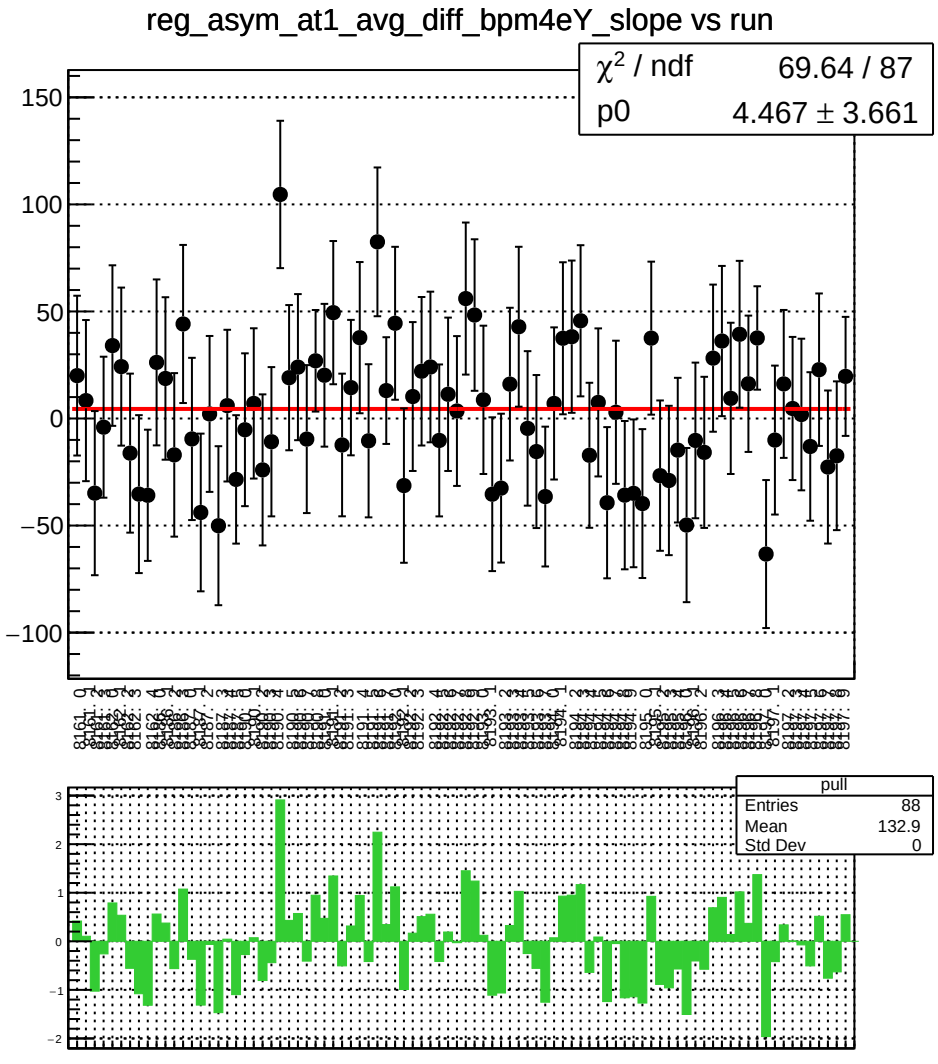

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 9.862 / 87
p0 124.3 ± 0.5445
135
130
125
120
115
pull
Entries 88
Mean 323.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.007139
Std Dev 0.3347
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

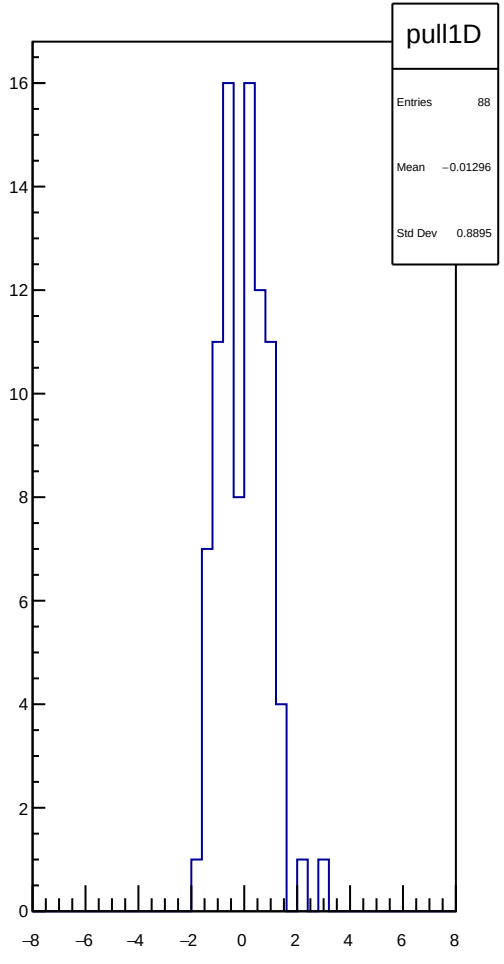

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 121.3 / 87
p0 −39.69 ± 2.056
pull
Entries 88
Mean −1.94e+04
Std Dev 0
pull1D
Entries 88
Mean −0.0006036
Std Dev 1.174

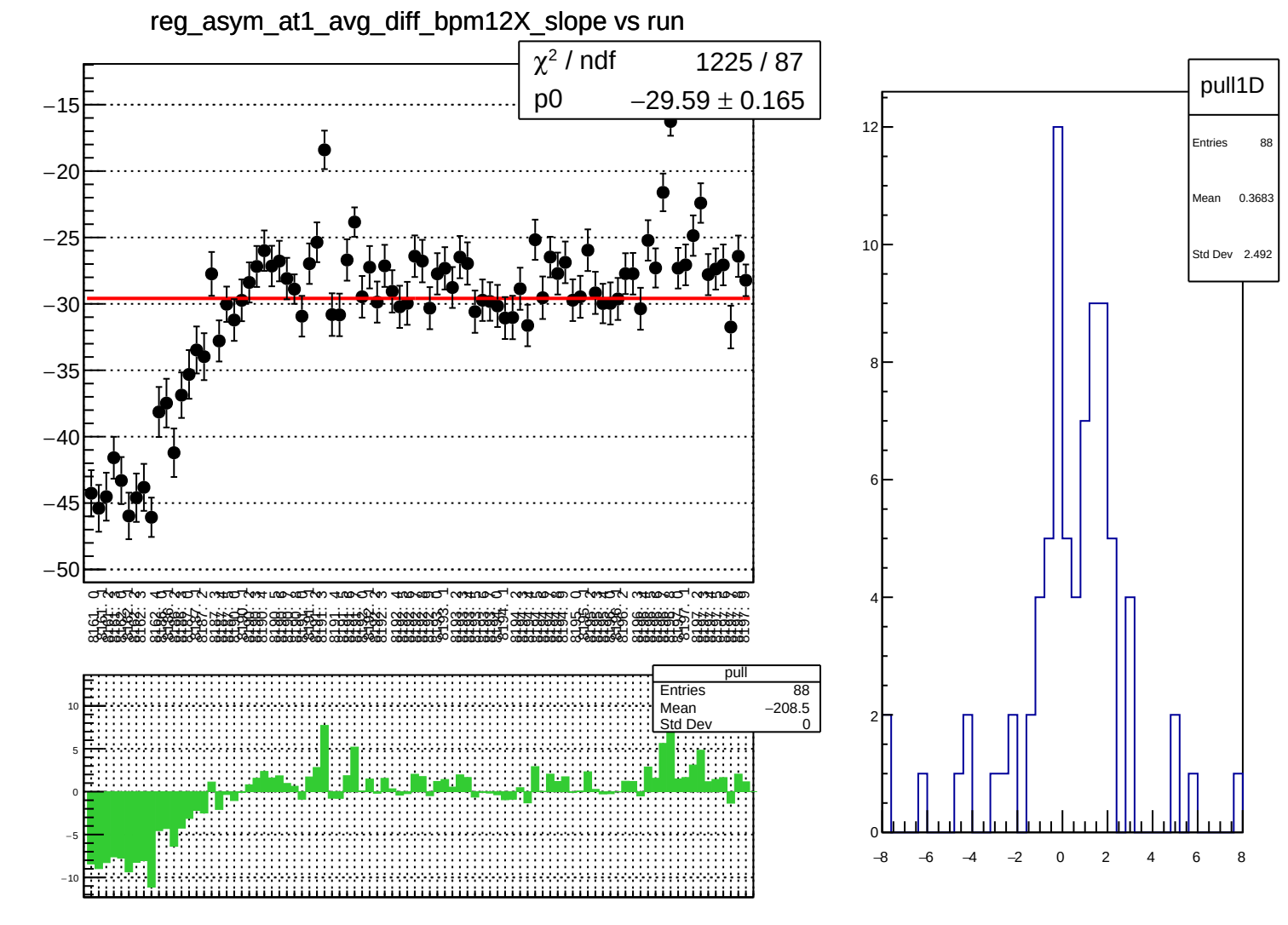

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.14 / 87
p0 0.6137 ± 3.398
pull
Entries 88
Mean 138.4
Std Dev 0

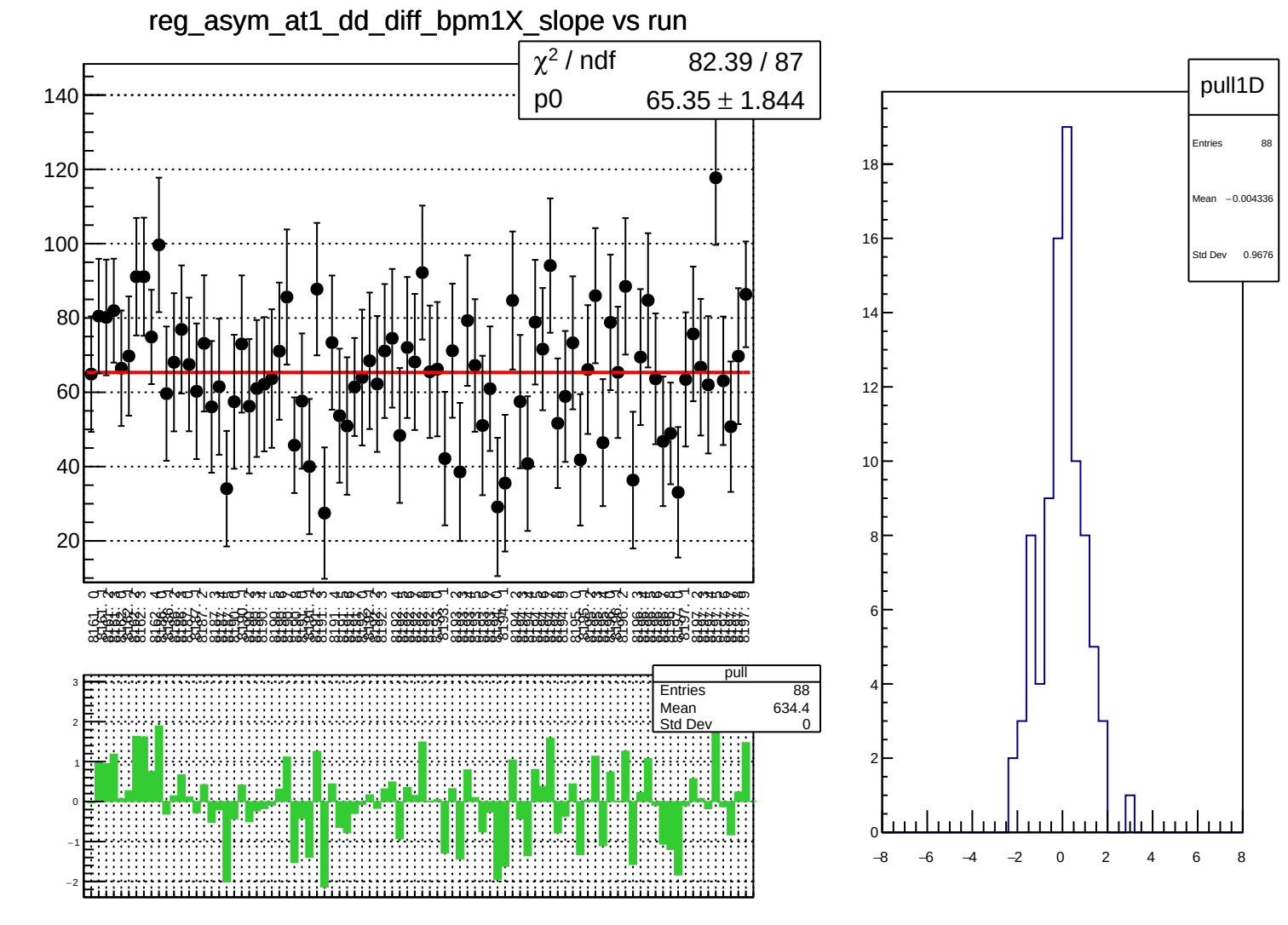

pull1D
Entries 88
Mean 0.01488
Std Dev 0.8926

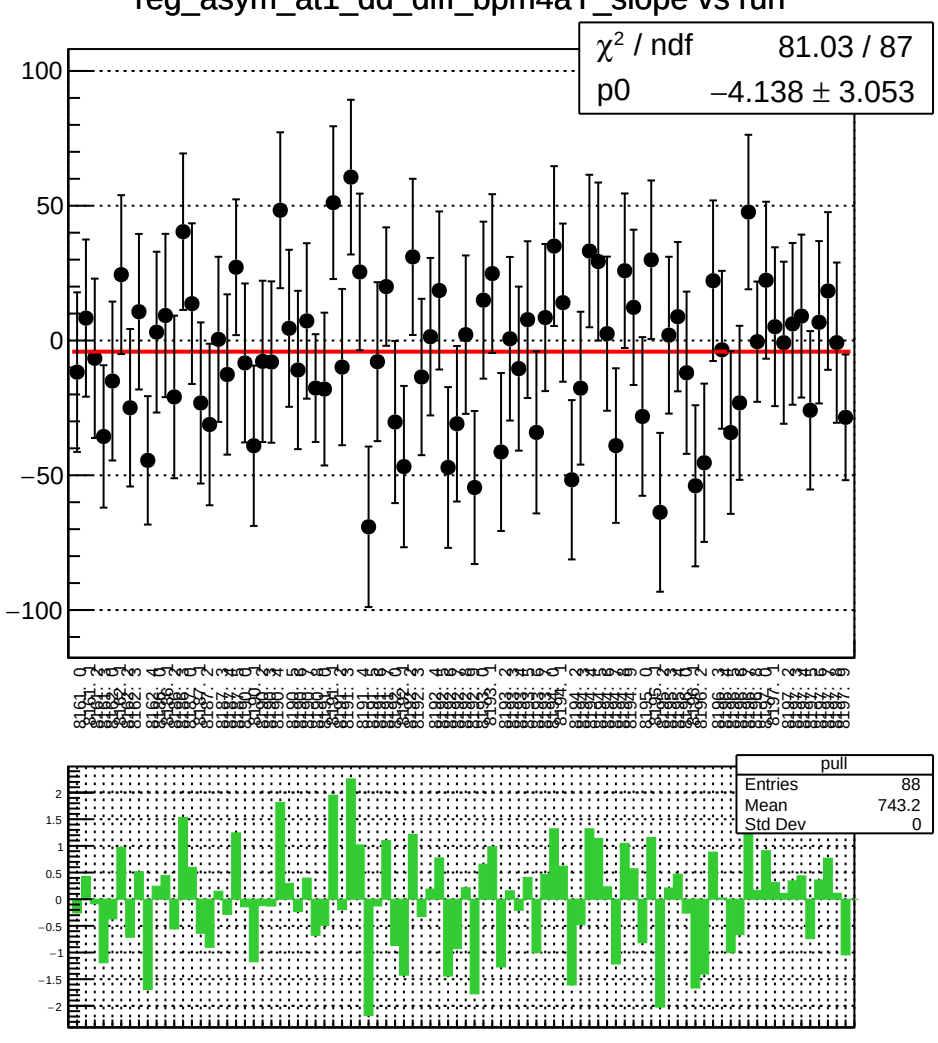

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 109.7 / 87
p0 26.25 ± 2.054
pull
Entries 88
Mean −863.7
Std Dev 0
pull1D
Entries 88
Mean 0.01054
Std Dev 1.116

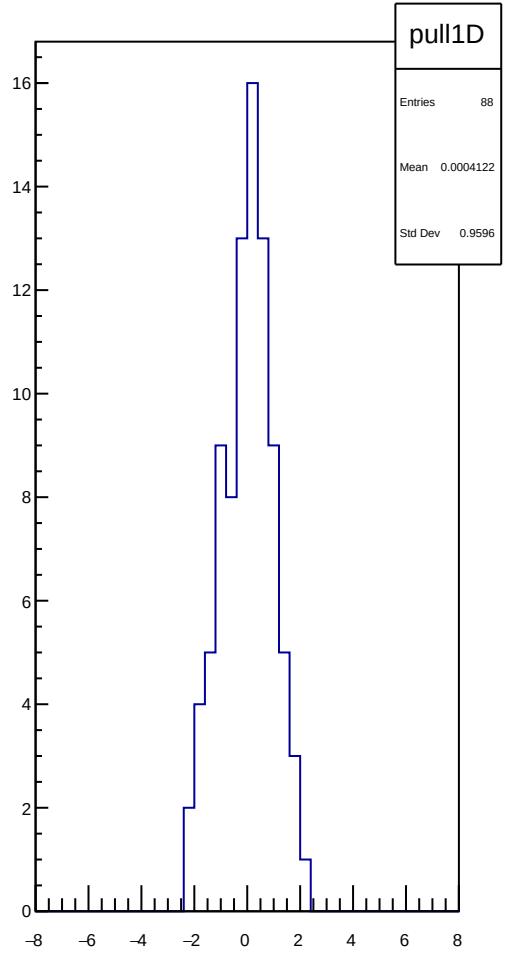

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.64 / 87
p0 4.467 ± 3.661
150
100
50
0
−50
−100
pull
Entries 88
Mean 132.9
Std Dev 0
3
2
1
0
−1
−2

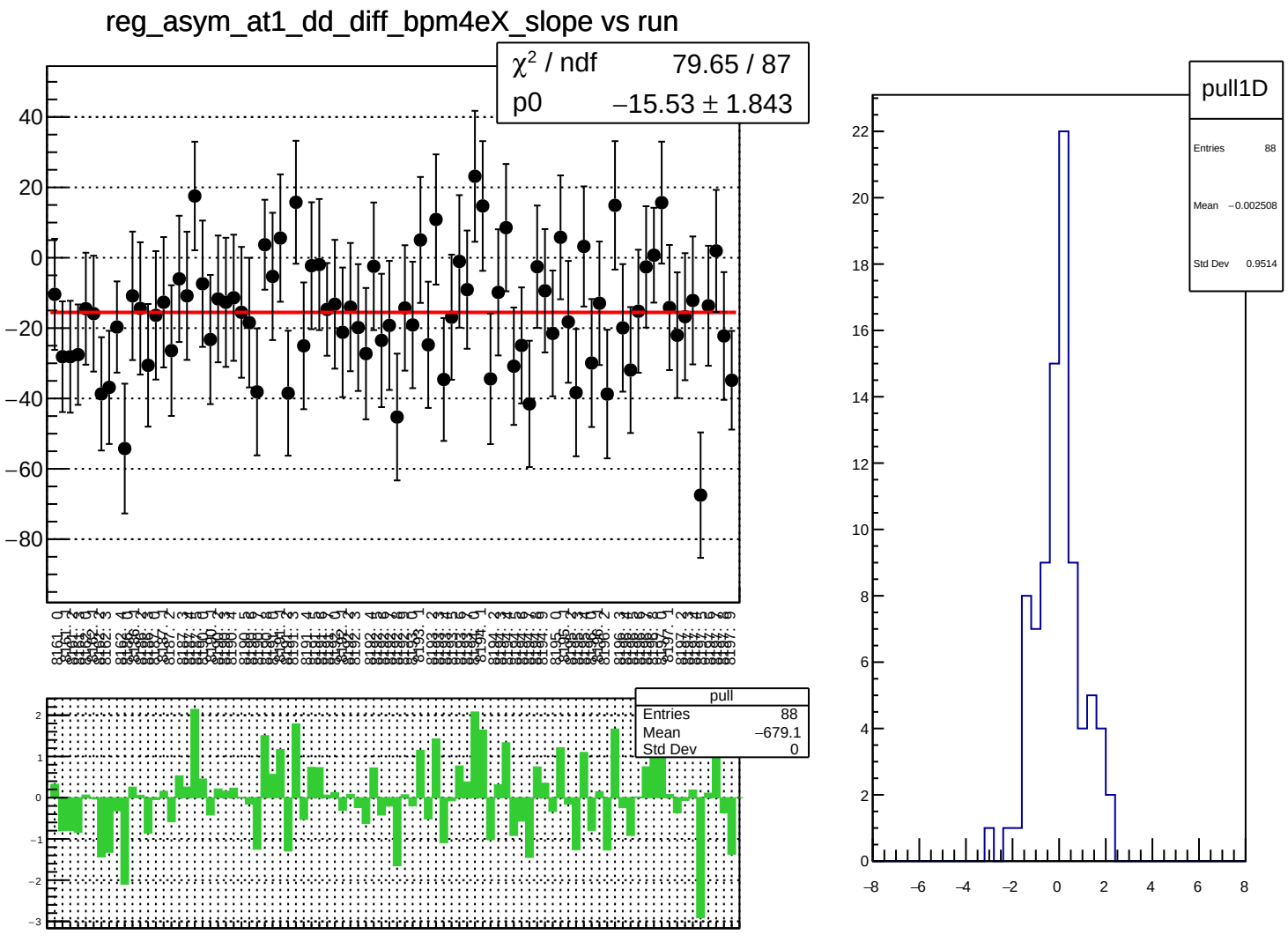

pull1D
Entries 88
Mean −0.01296
Std Dev 0.8895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

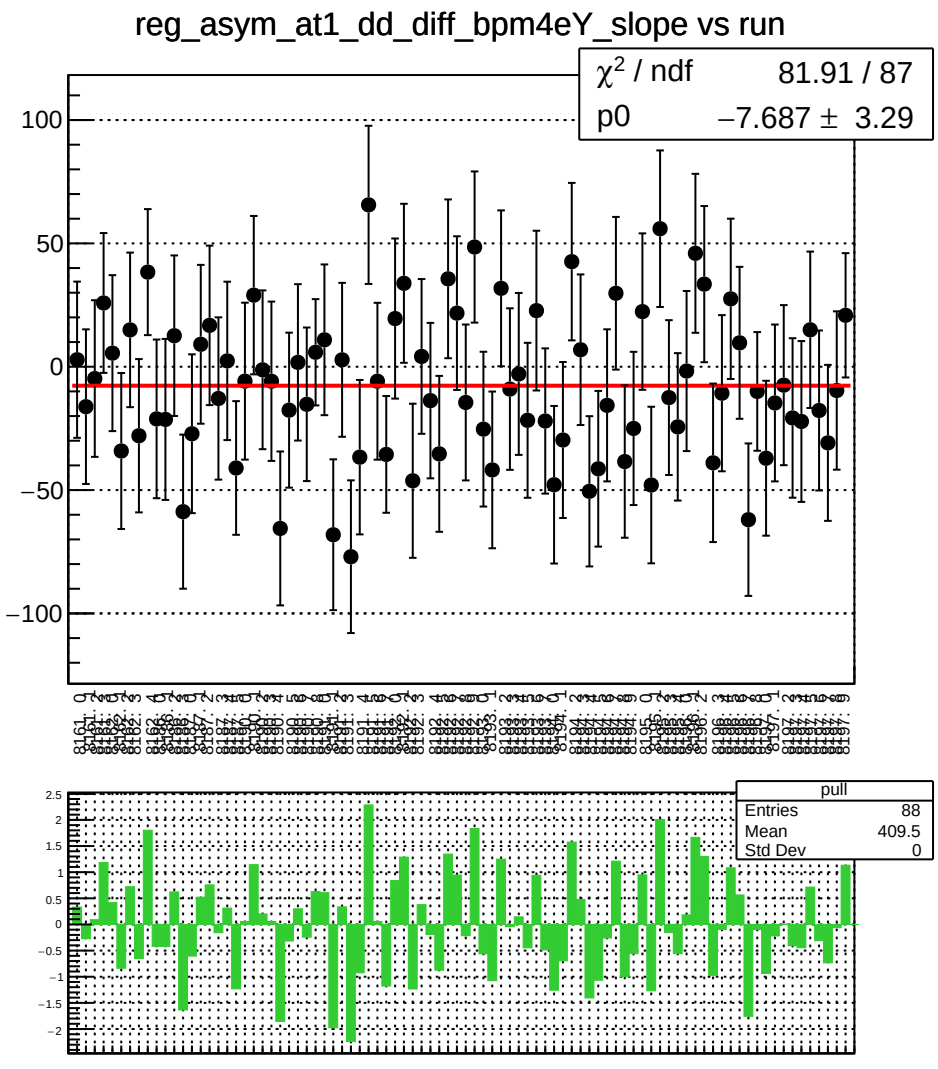

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1225 / 87
p0 −29.59 ± 0.165
pull
Entries 88
Mean −208.5
Std Dev 0
pull1D
Entries 88
Mean 0.3683
Std Dev 2.492

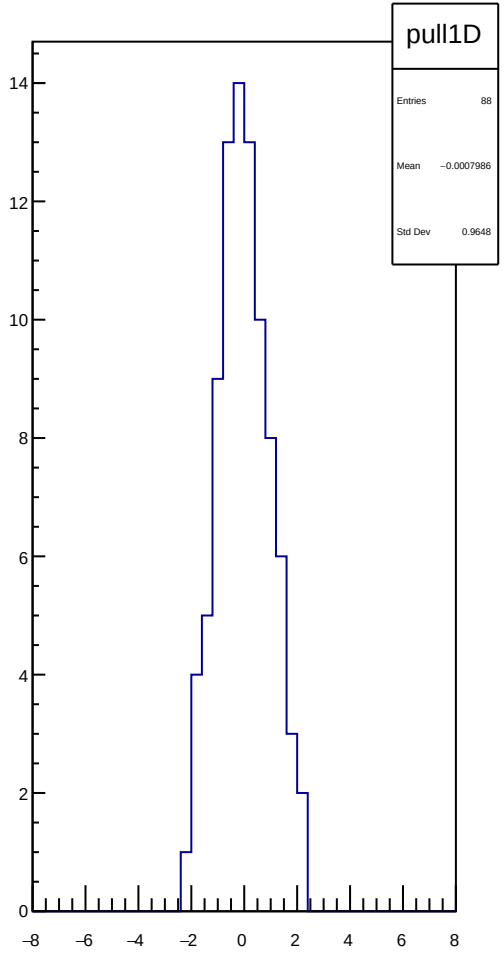

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 82.39 / 87
p0 65.35 ± 1.844
pull
Entries 88
Mean 634.4
Std Dev 0
pull1D
Entries 88
Mean −0.004336
Std Dev 0.9676

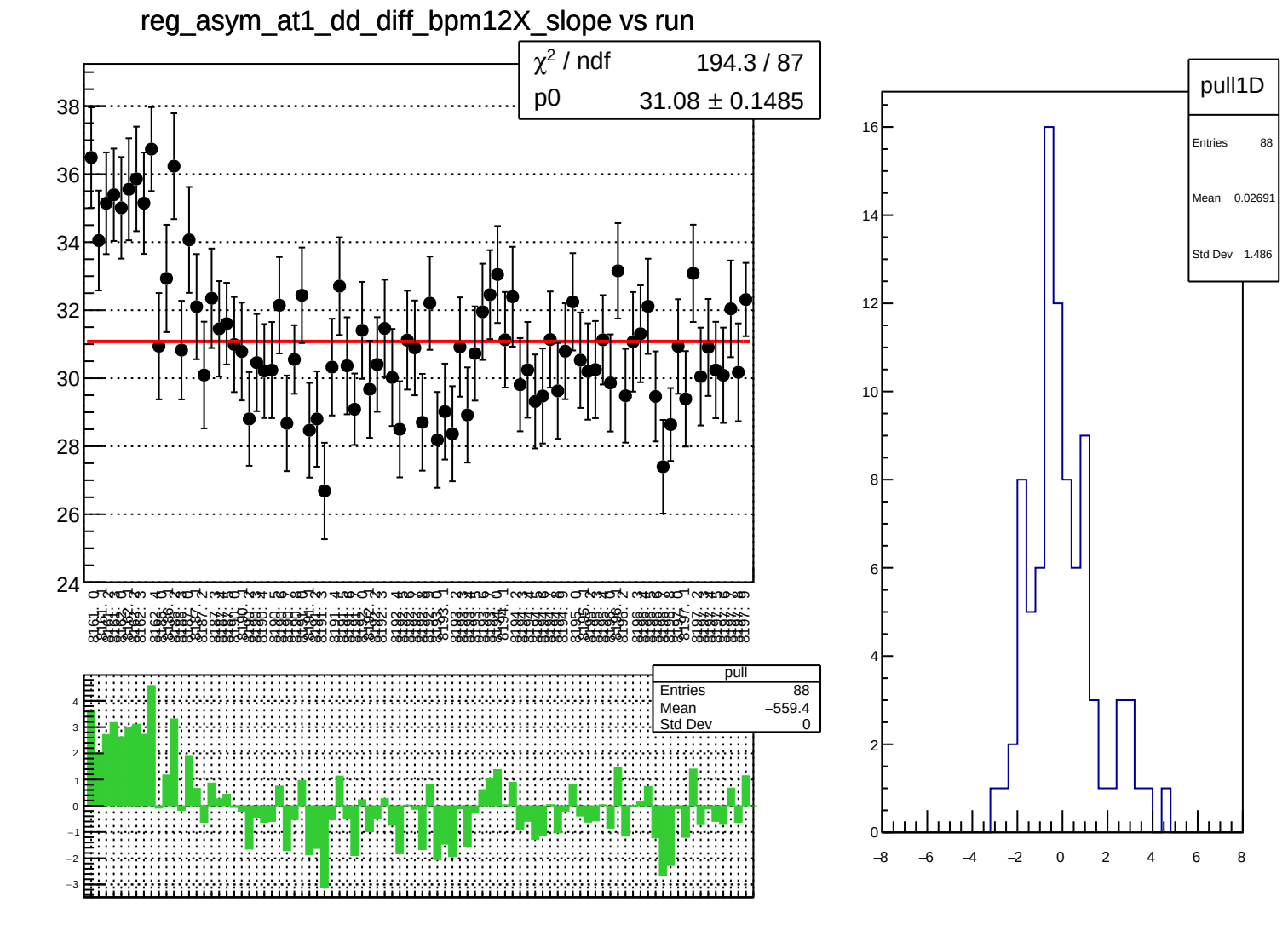

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.03 / 87
p0 −4.138 ± 3.053
100
50
0
−50
−100
pull
Entries 88
Mean 743.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

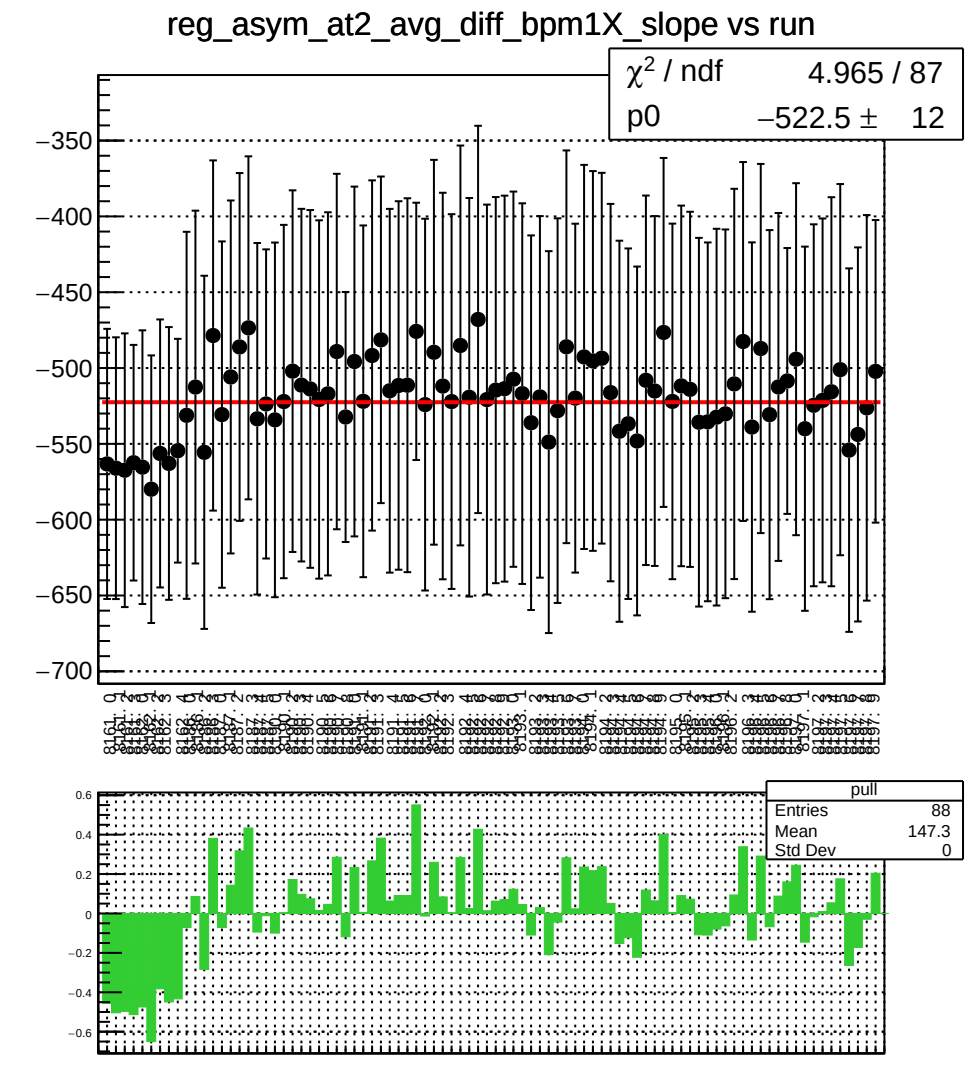

pull1D
Entries 88
Mean 0.0004122
Std Dev 0.9596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

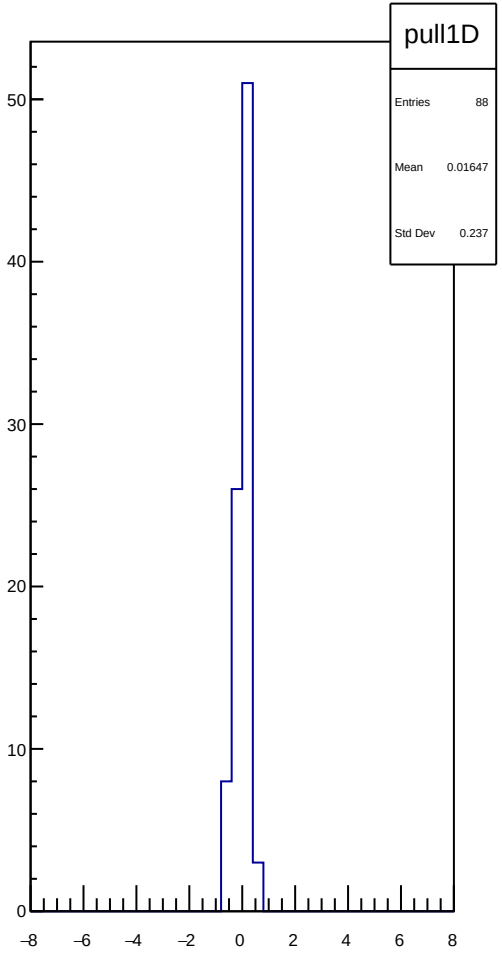

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.65 / 87
p0 −15.53 ± 1.843
pull
Entries 88
Mean −679.1
Std Dev 0
pull1D
Entries 88
Mean −0.002508
Std Dev 0.9514

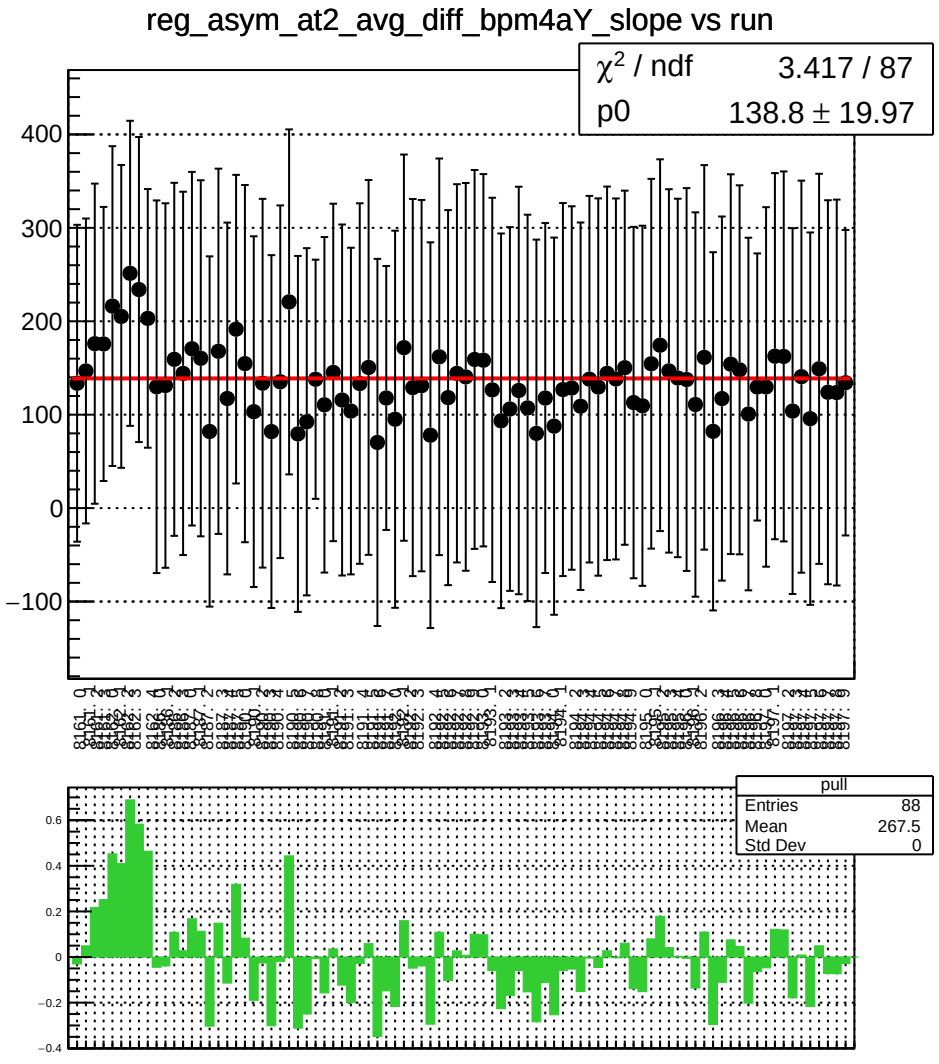

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.91 / 87
p0 −7.687 ± 3.29
100
50
0
−50
−100
pull
Entries 88
Mean 409.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

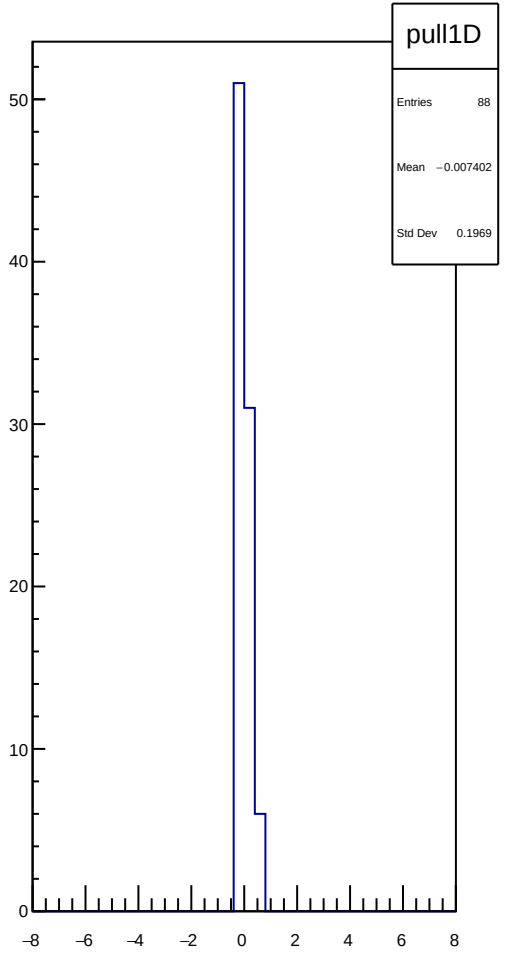

pull1D
Entries 88
Mean −0.0007986
Std Dev 0.9648
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

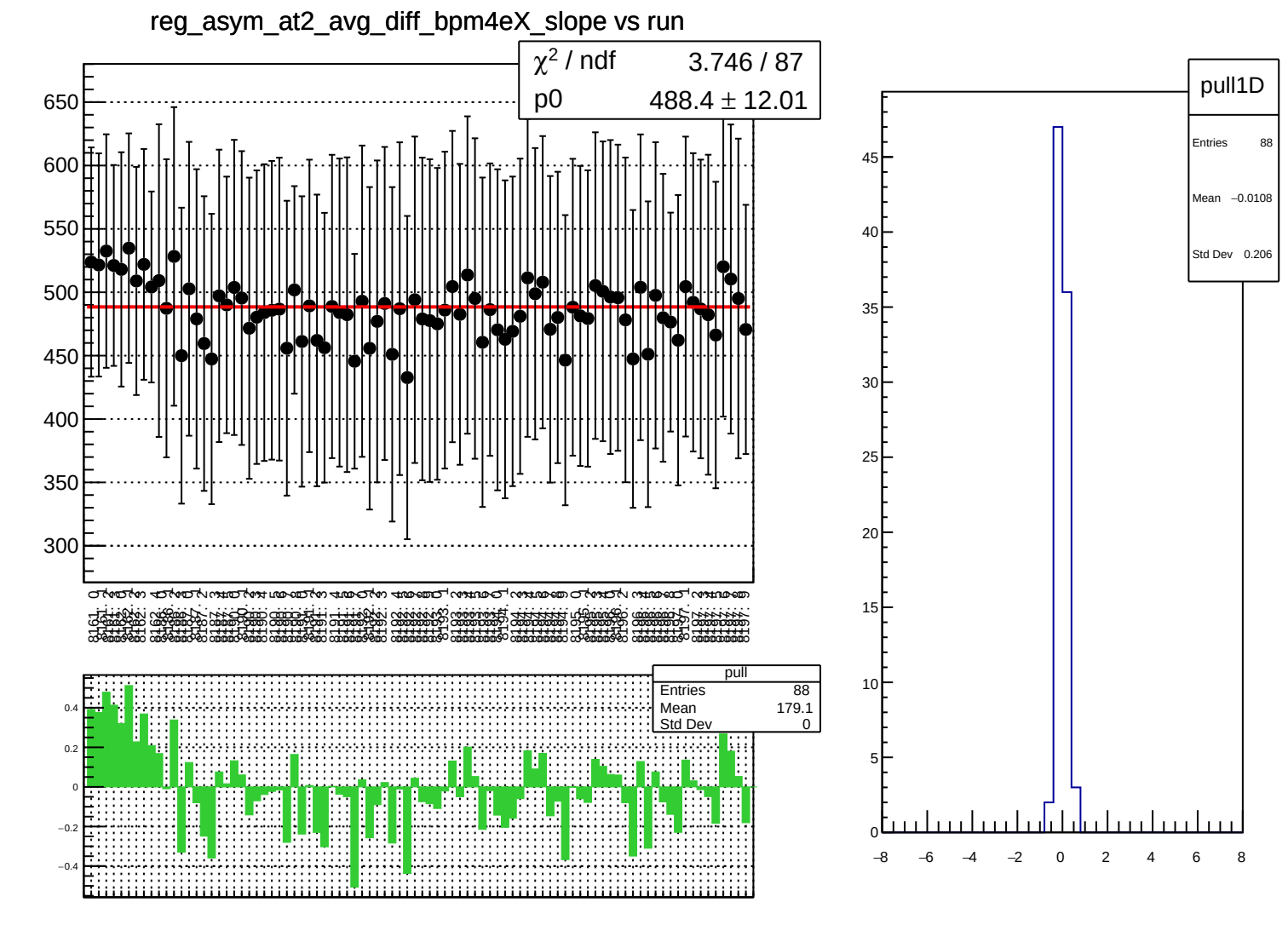

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 194.3 / 87
p0 31.08 ± 0.1485
pull
Entries 88
Mean −559.4
Std Dev 0
pull1D
Entries 88
Mean 0.02691
Std Dev 1.486

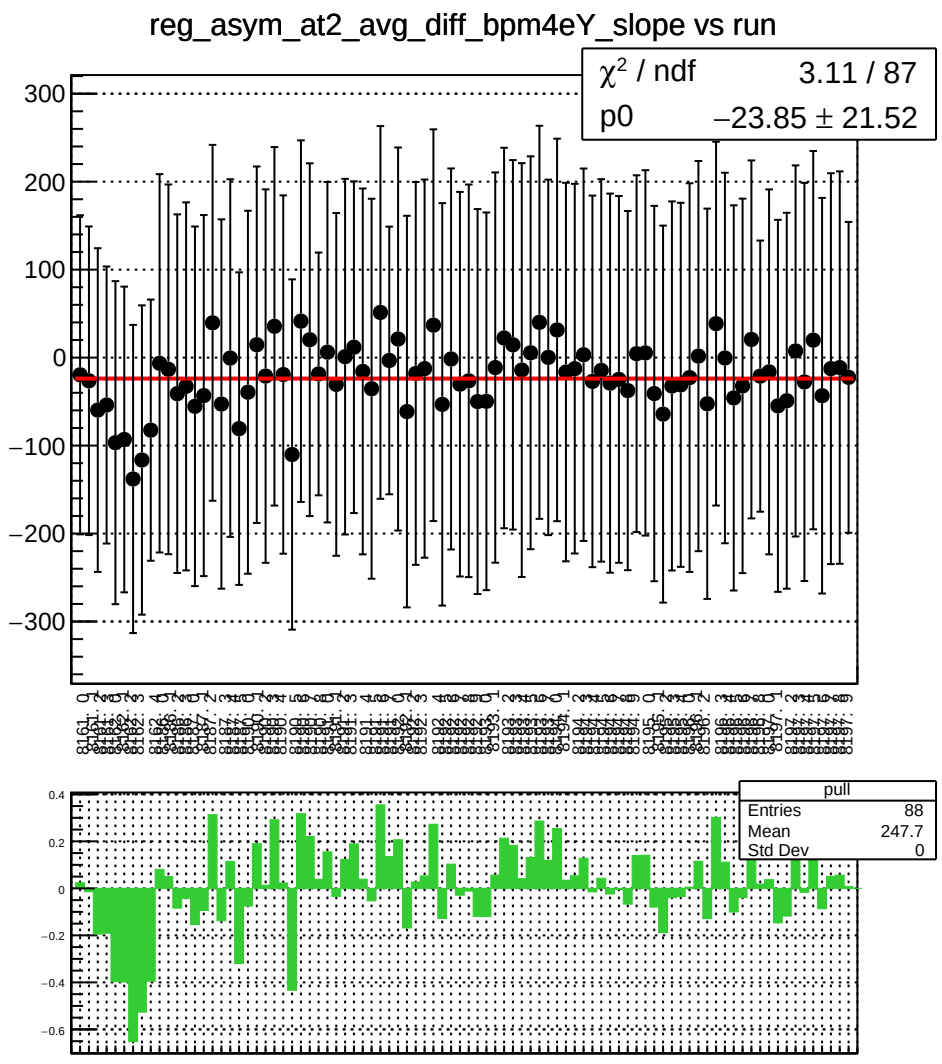

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.965 / 87
p0 −522.5 ± 12
pull
Entries 88
Mean 147.3
Std Dev 0

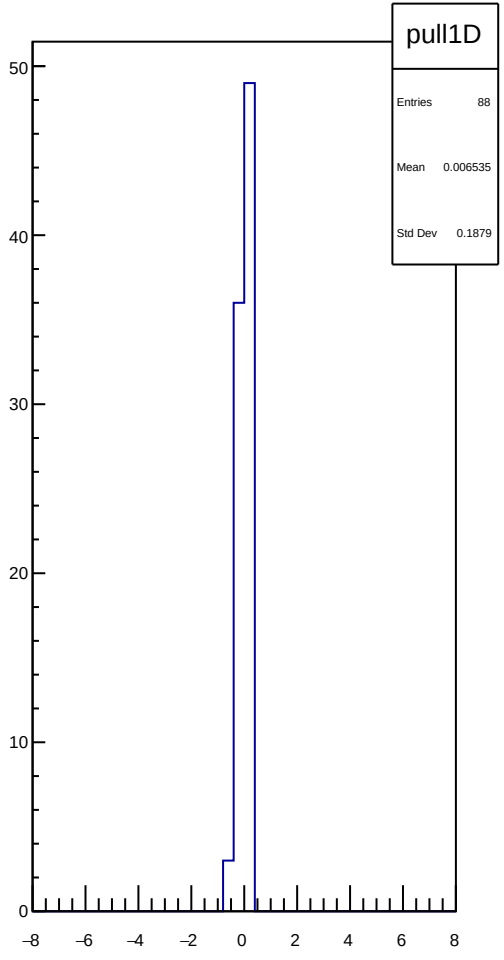

pull1D
Entries 88
Mean 0.01647
Std Dev 0.237

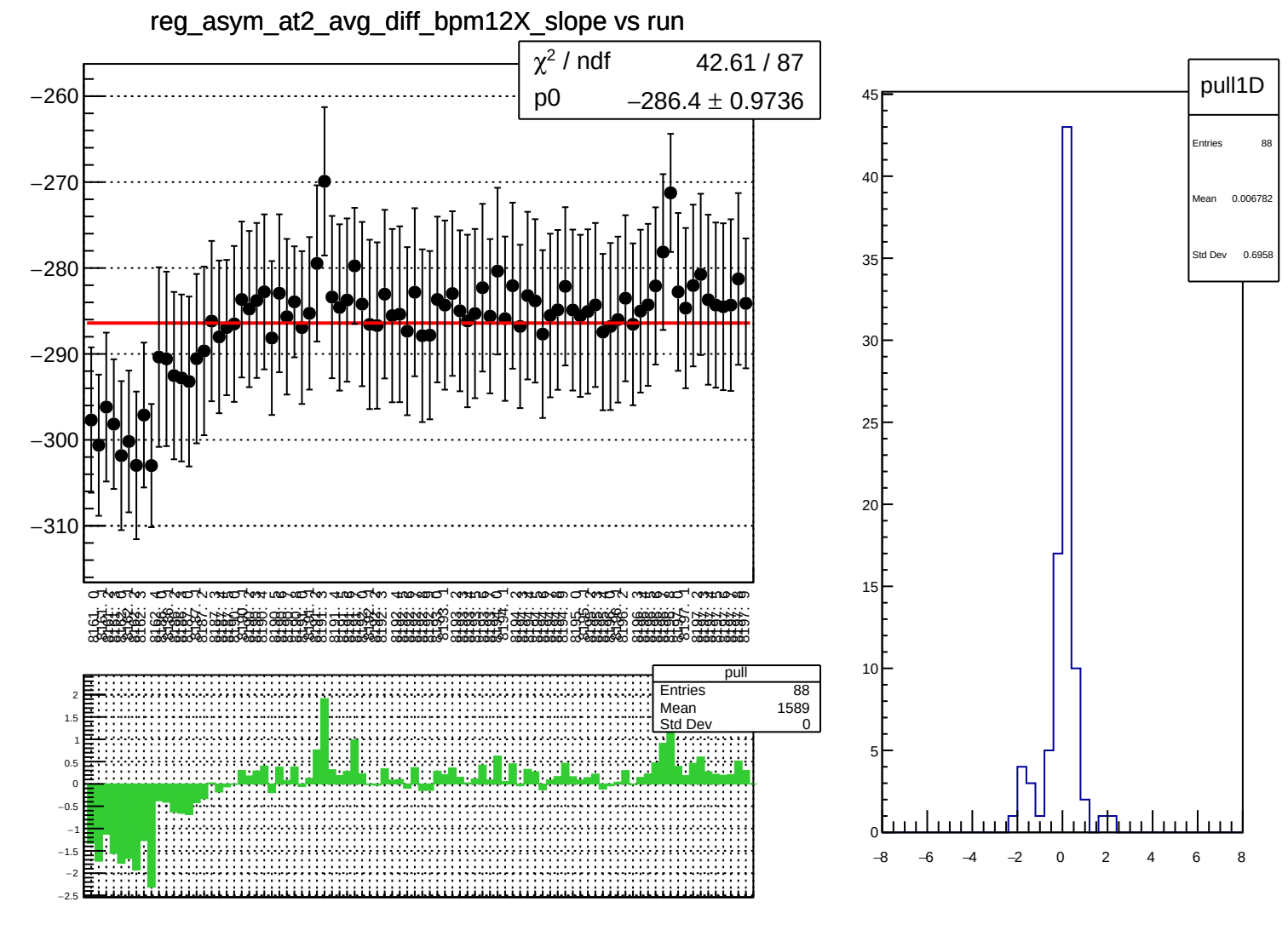

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.417 / 87
p0 138.8 ± 19.97
400
300
200
100
0
−100
pull
Entries 88
Mean 267.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

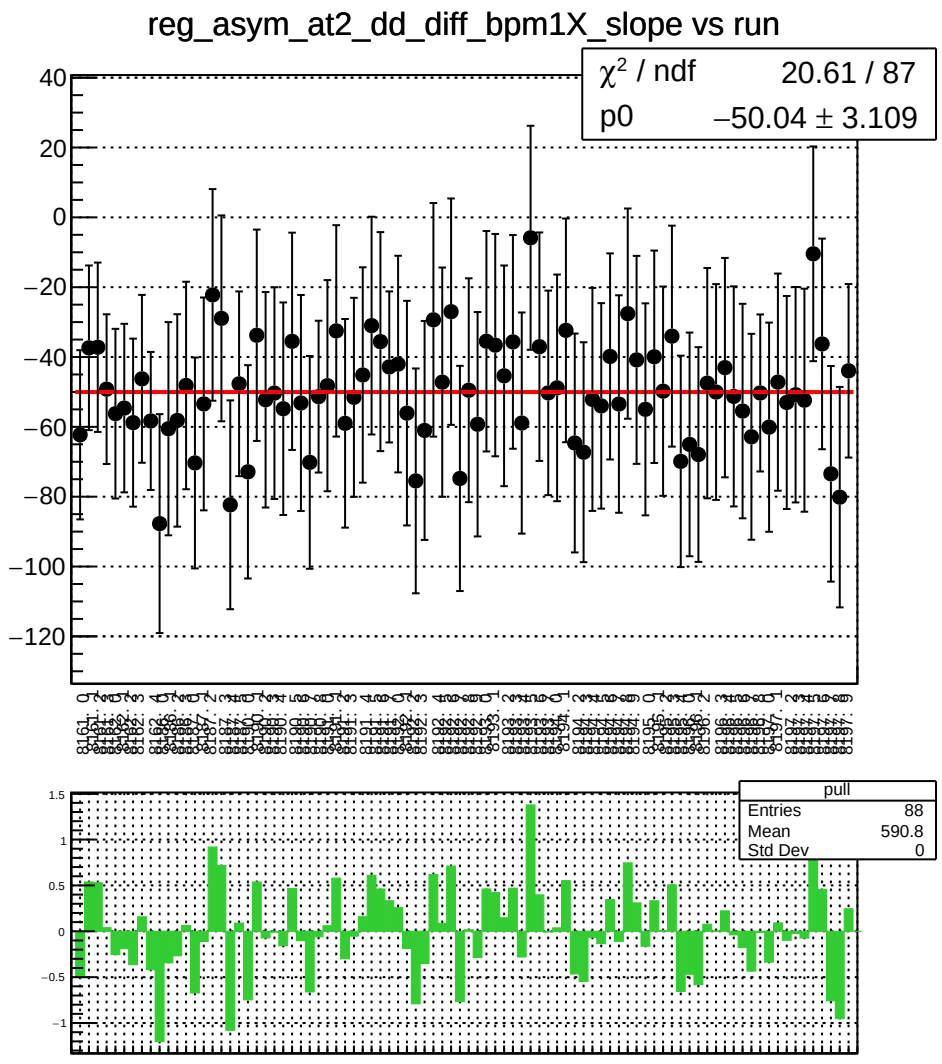

pull1D
Entries 88
Mean −0.007402
Std Dev 0.1969
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

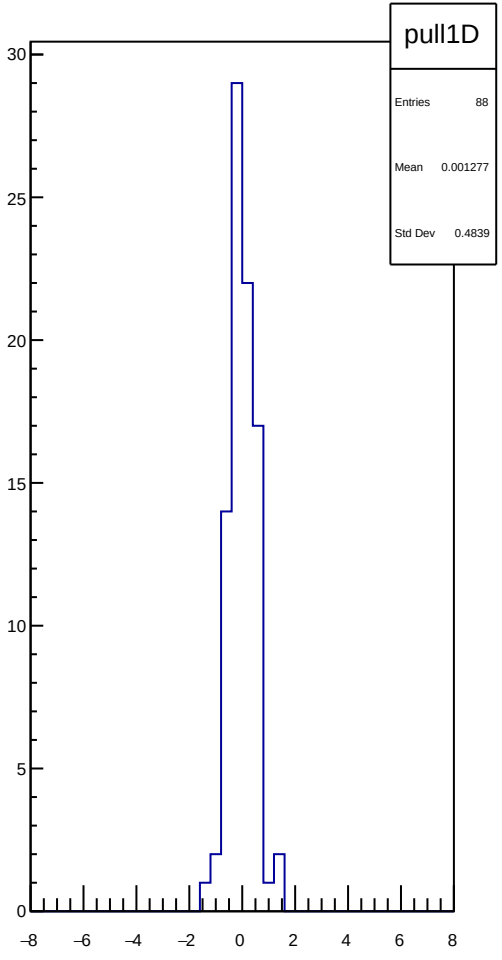

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.746 / 87
p0 488.4 ± 12.01
650
600
550
500
450
400
350
300
pull
Entries 88
Mean 179.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.0108
Std Dev 0.206
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

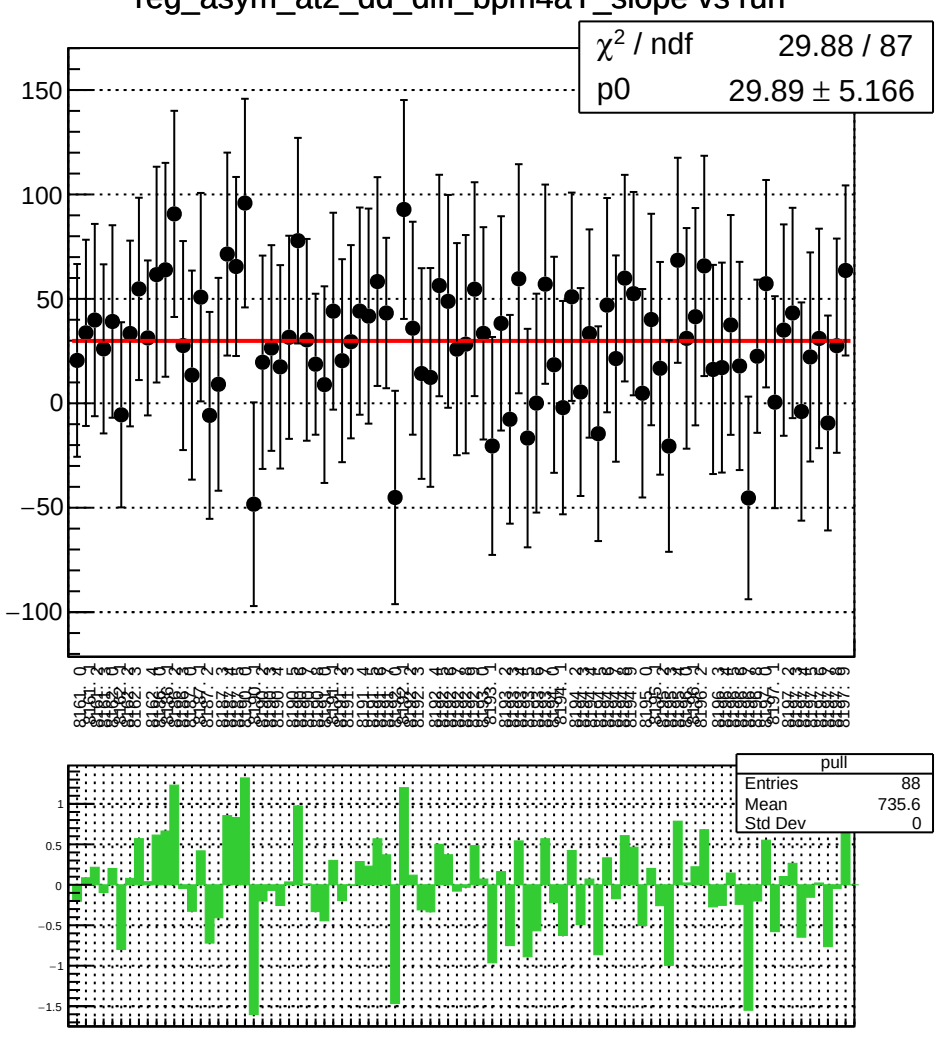

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.11 / 87
p0 −23.85 ± 21.52
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 247.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

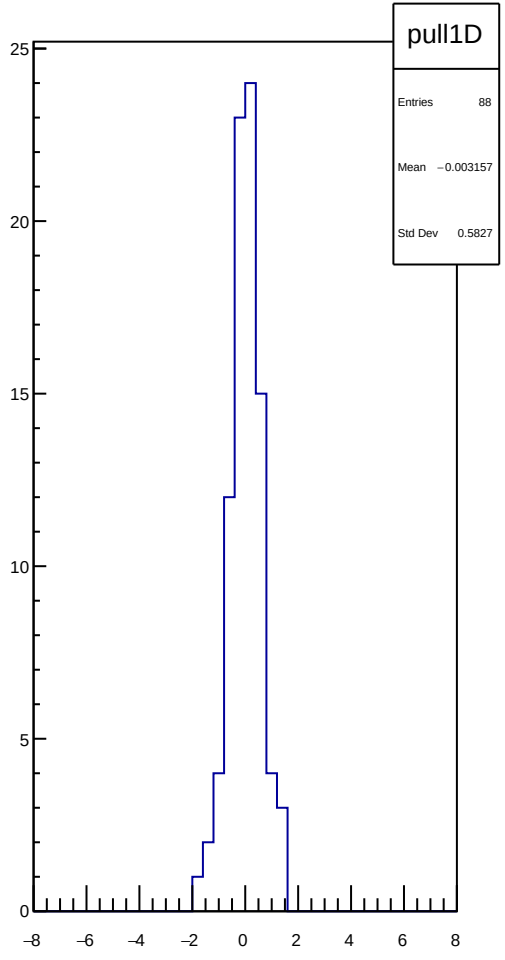

pull1D
Entries 88
Mean 0.006535
Std Dev 0.1879
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

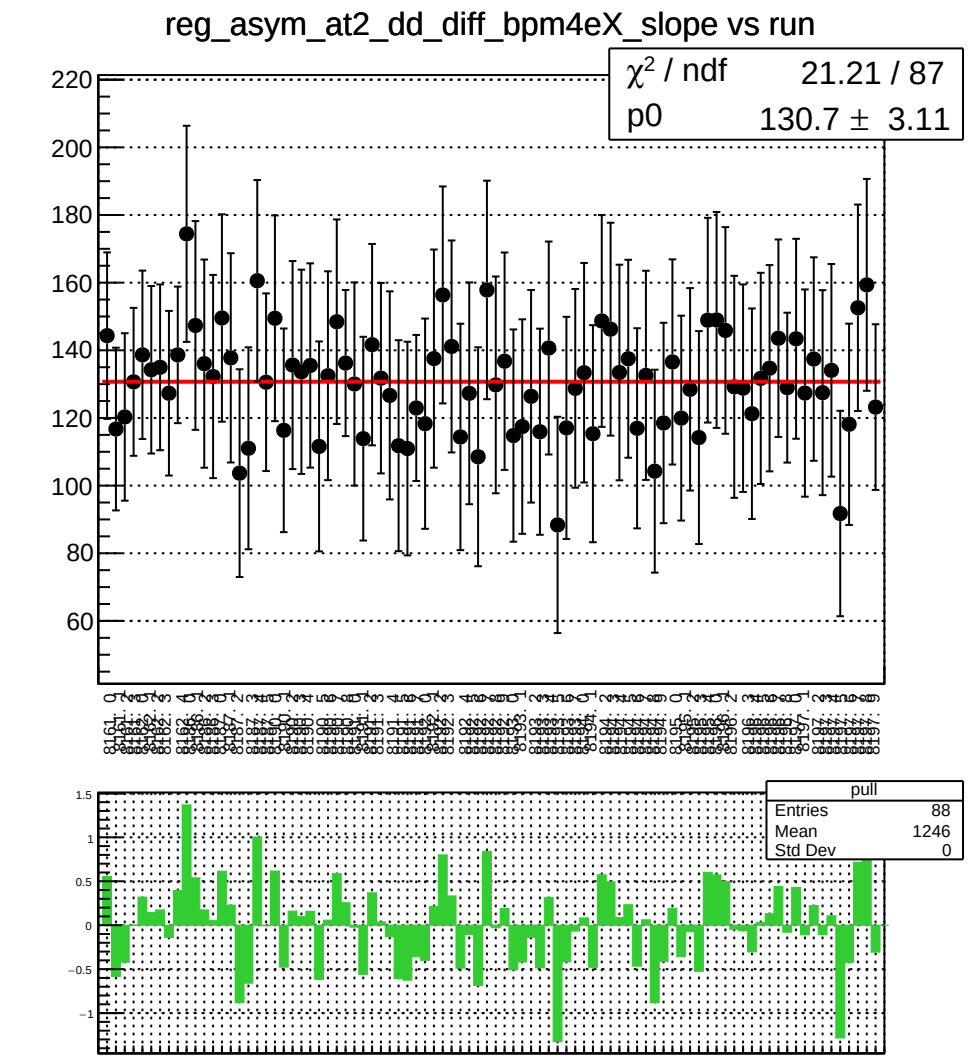

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 42.61 / 87
p0 −286.4 ± 0.9736
−260
−270
−280
−290
−300
−310
pull
Entries 88
Mean 1589
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.006782
Std Dev 0.6958
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

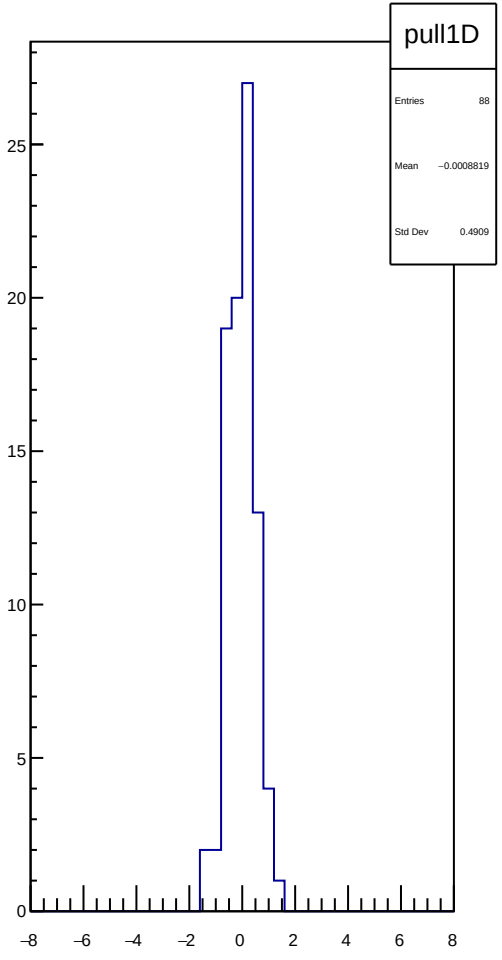

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 20.61 / 87
p0 −50.04 ± 3.109
pull
Entries 88
Mean 590.8
Std Dev 0

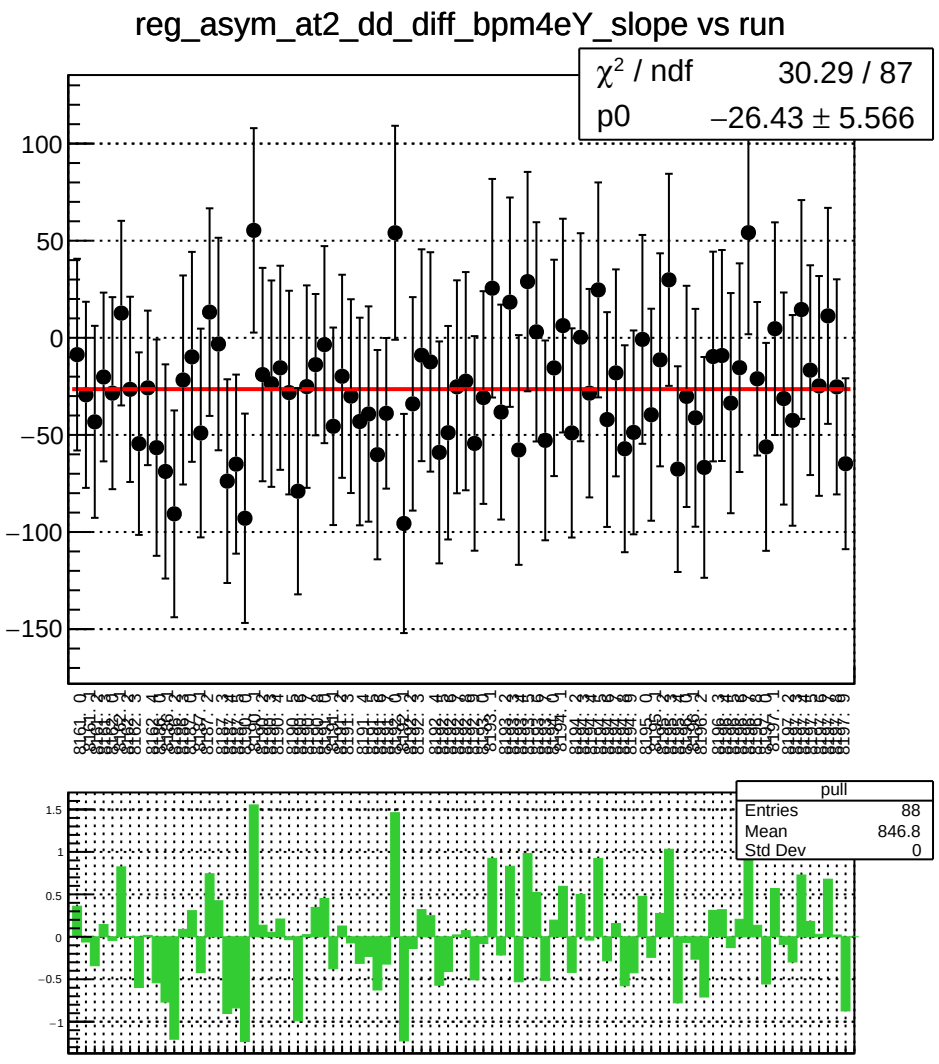

pull1D
Entries 88
Mean 0.001277
Std Dev 0.4839

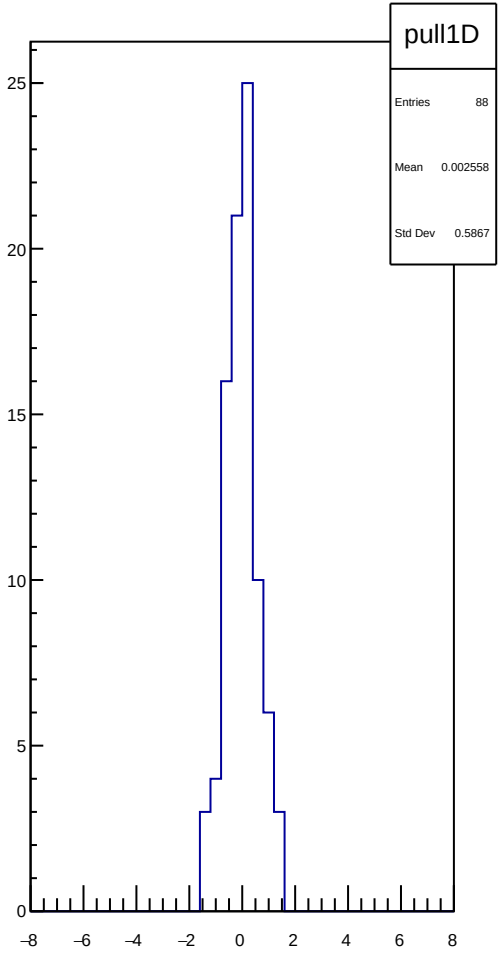

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.88 / 87
p0 29.89 ± 5.166
150
100
50
0
−50
−100
pull
Entries 88
Mean 735.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

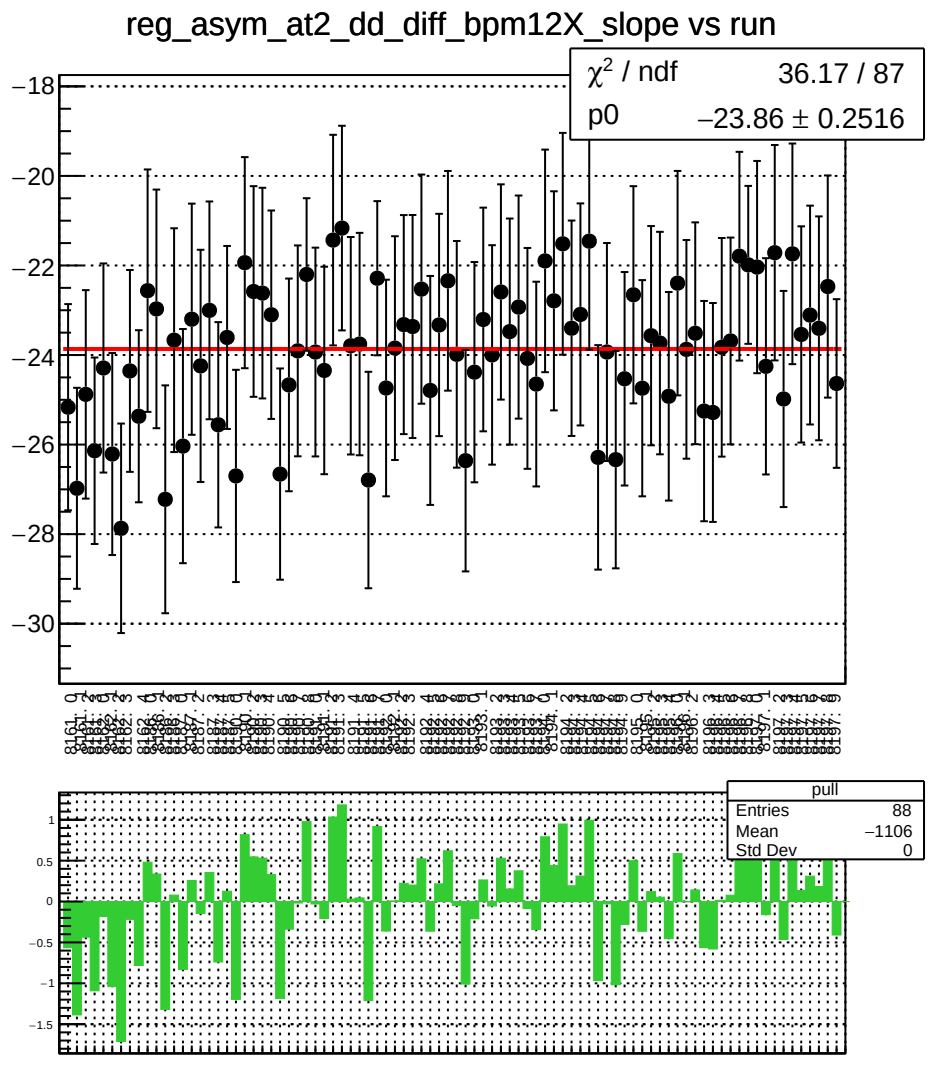

pull1D
Entries 88
Mean −0.003157
Std Dev 0.5827
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

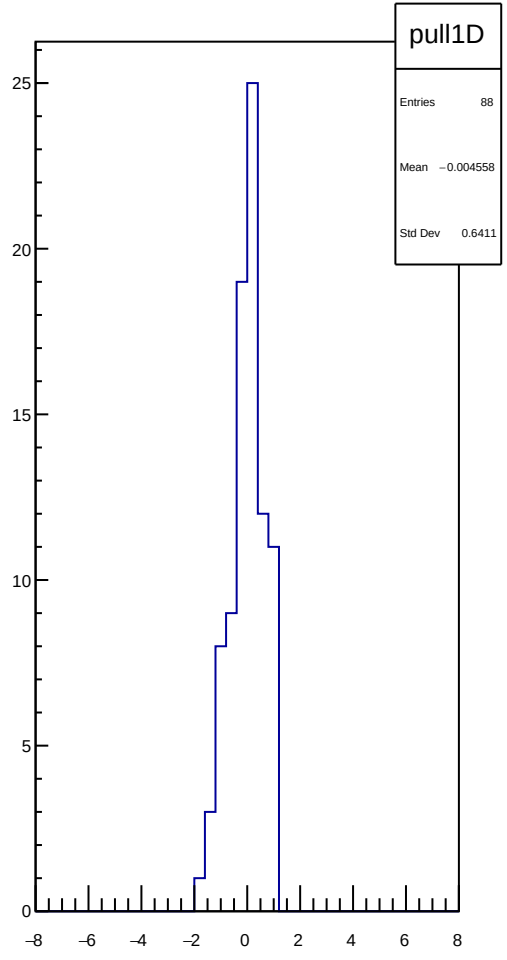

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.21 / 87
p0 130.7 ± 3.11
pull
Entries 88
Mean 1246
Std Dev 0

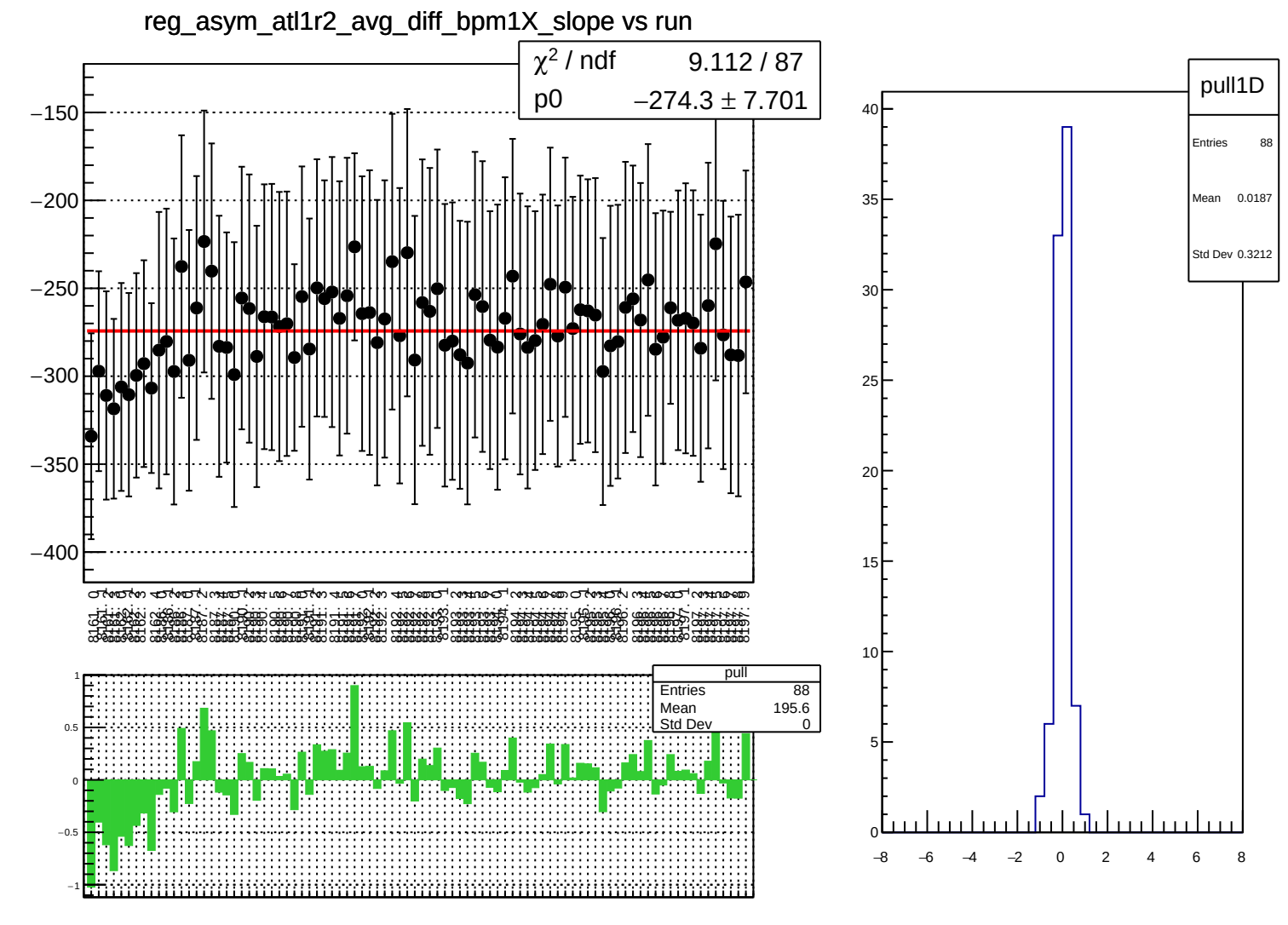

pull1D
Entries 88
Mean −0.0008819
Std Dev 0.4909

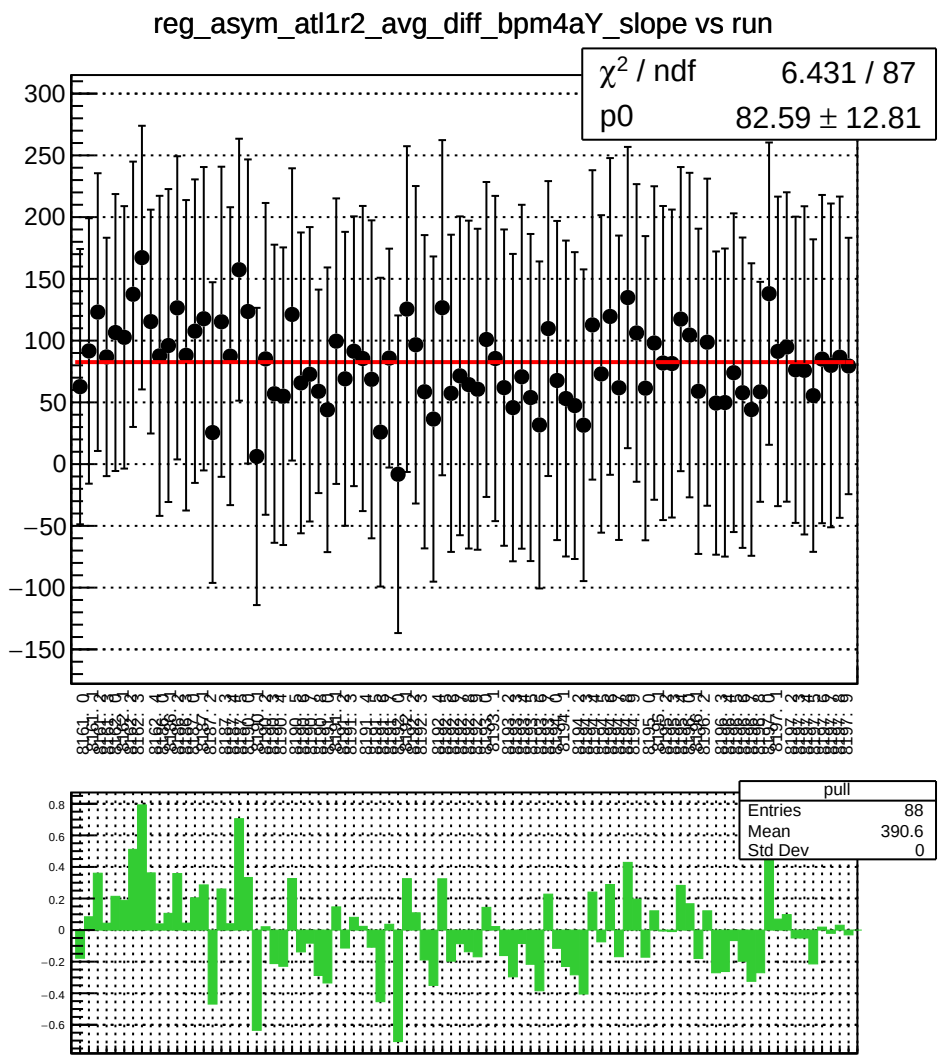

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.29 / 87
p0 −26.43 ± 5.566
pull
Entries 88
Mean 846.8
Std Dev 0

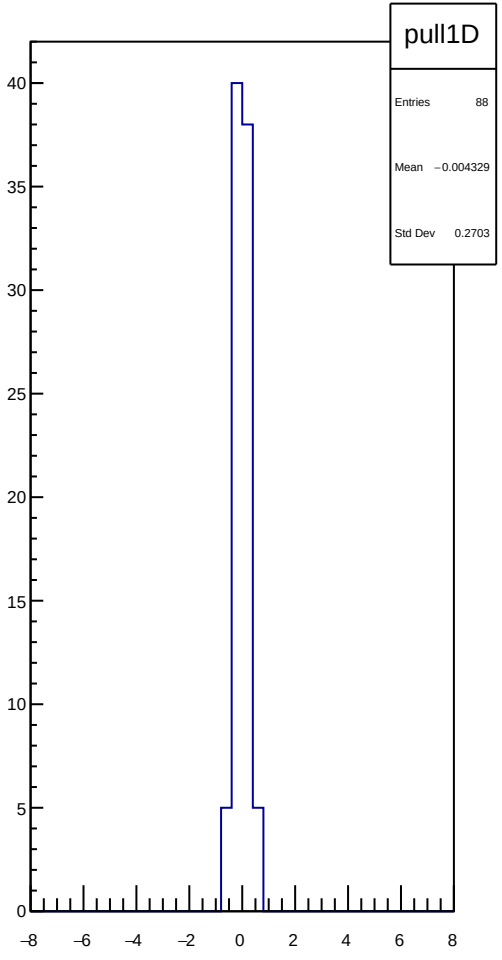

pull1D
Entries 88
Mean 0.002558
Std Dev 0.5867

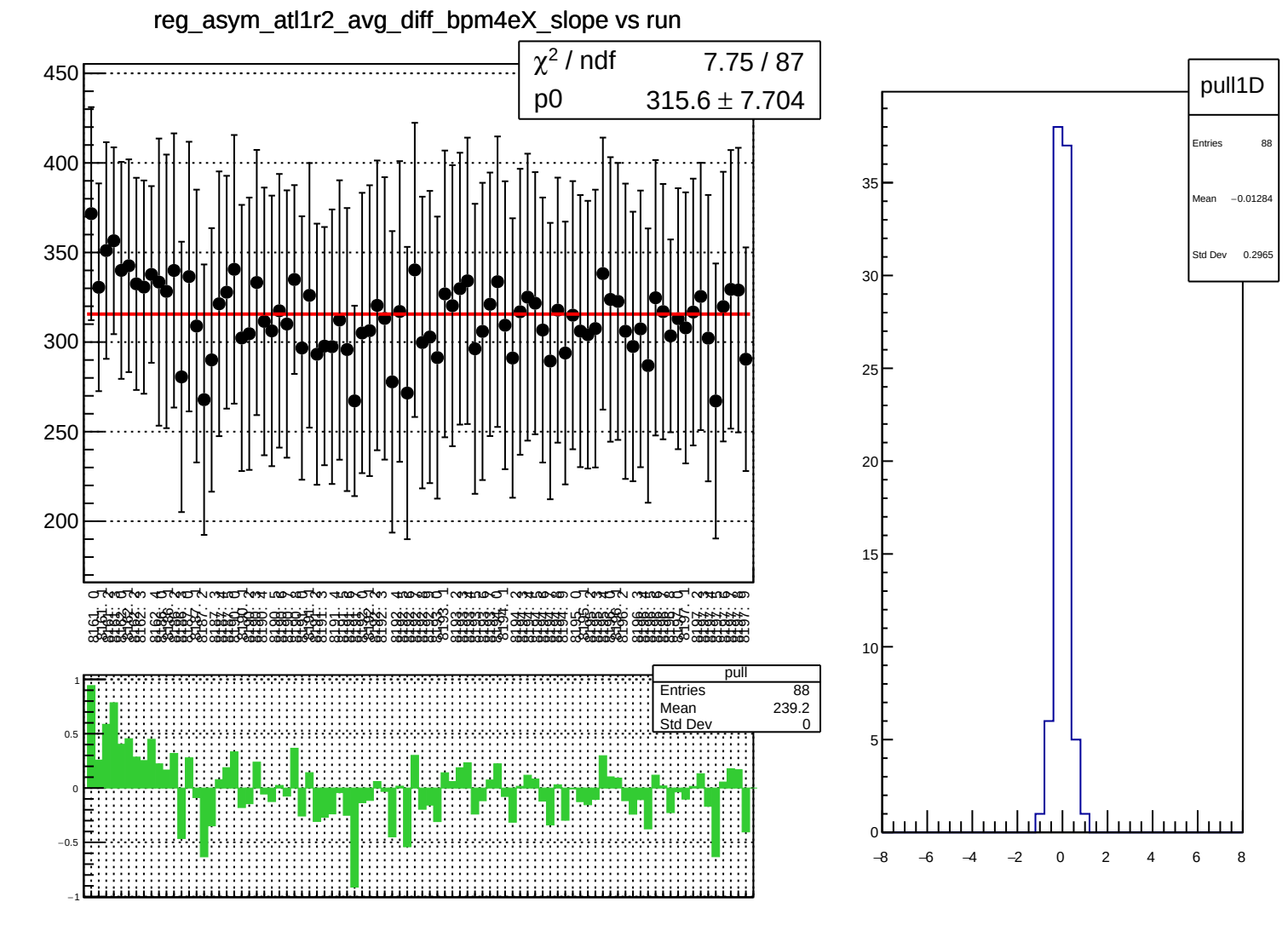

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 36.17 / 87
p0 −23.86 ± 0.2516
pull
Entries 88
Mean −1106
Std Dev 0

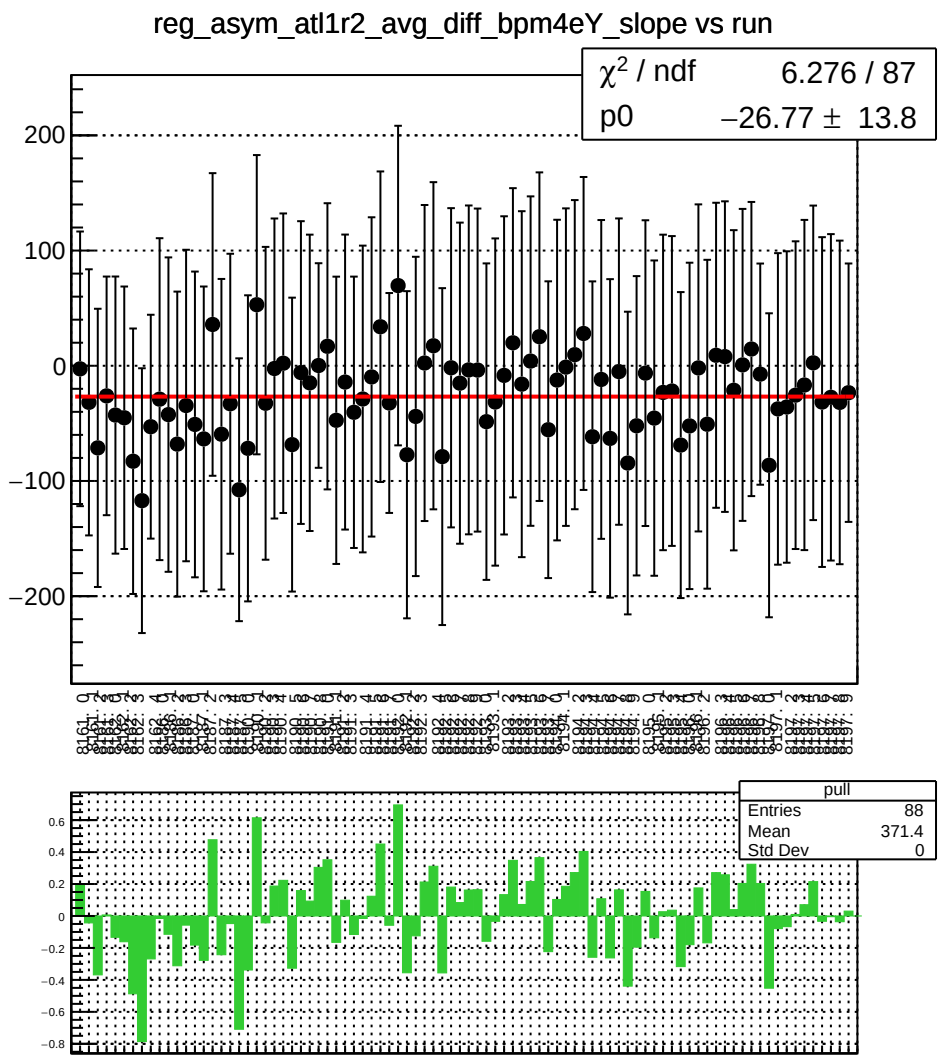

pull1D
Entries 88
Mean −0.004558
Std Dev 0.6411

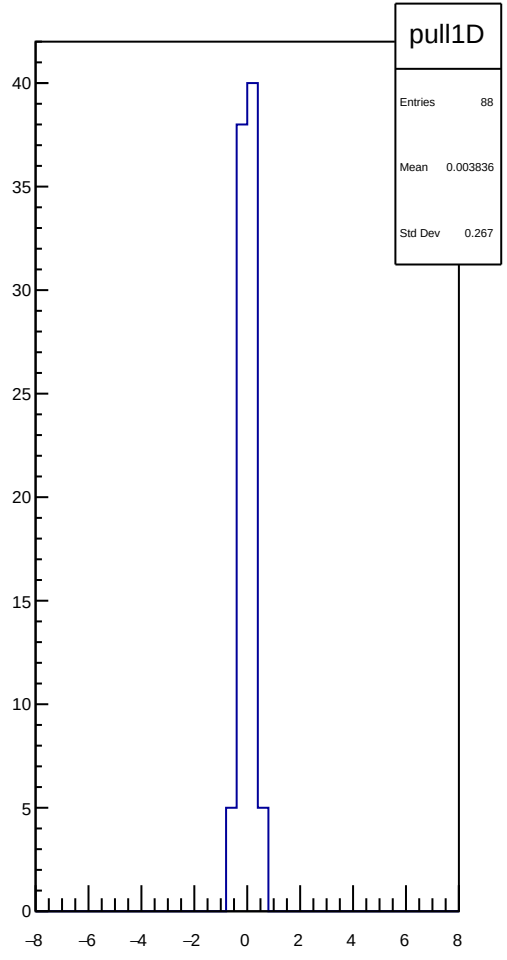

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.112 / 87
p0 −274.3 ± 7.701
−150
−200
−250
−300
−350
−400
pull
Entries 88
Mean 195.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.0187
Std Dev 0.3212
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

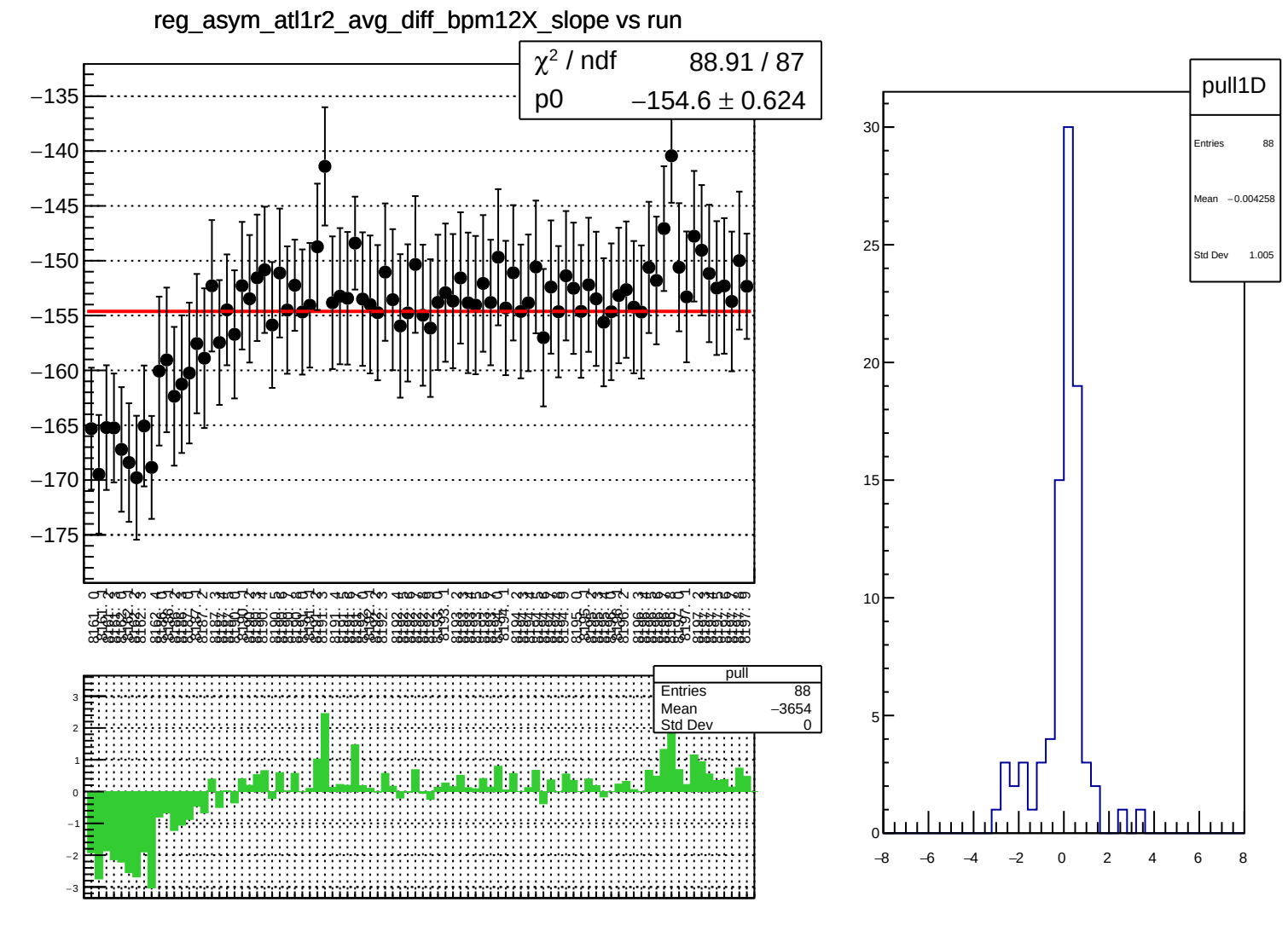

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.431 / 87
p0 82.59 ± 12.81
pull
Entries 88
Mean 390.6
Std Dev 0

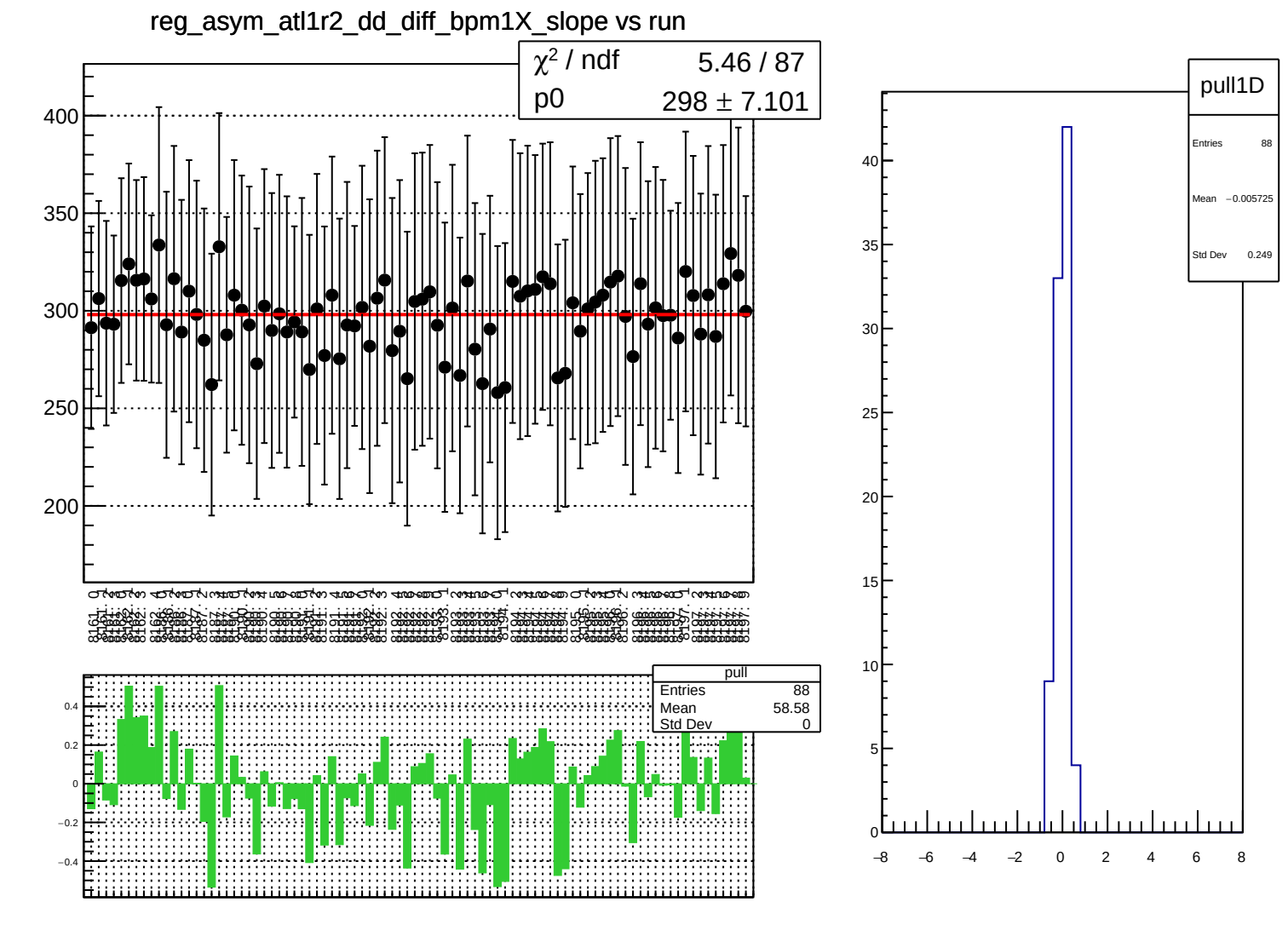

pull1D
Entries 88
Mean −0.004329
Std Dev 0.2703

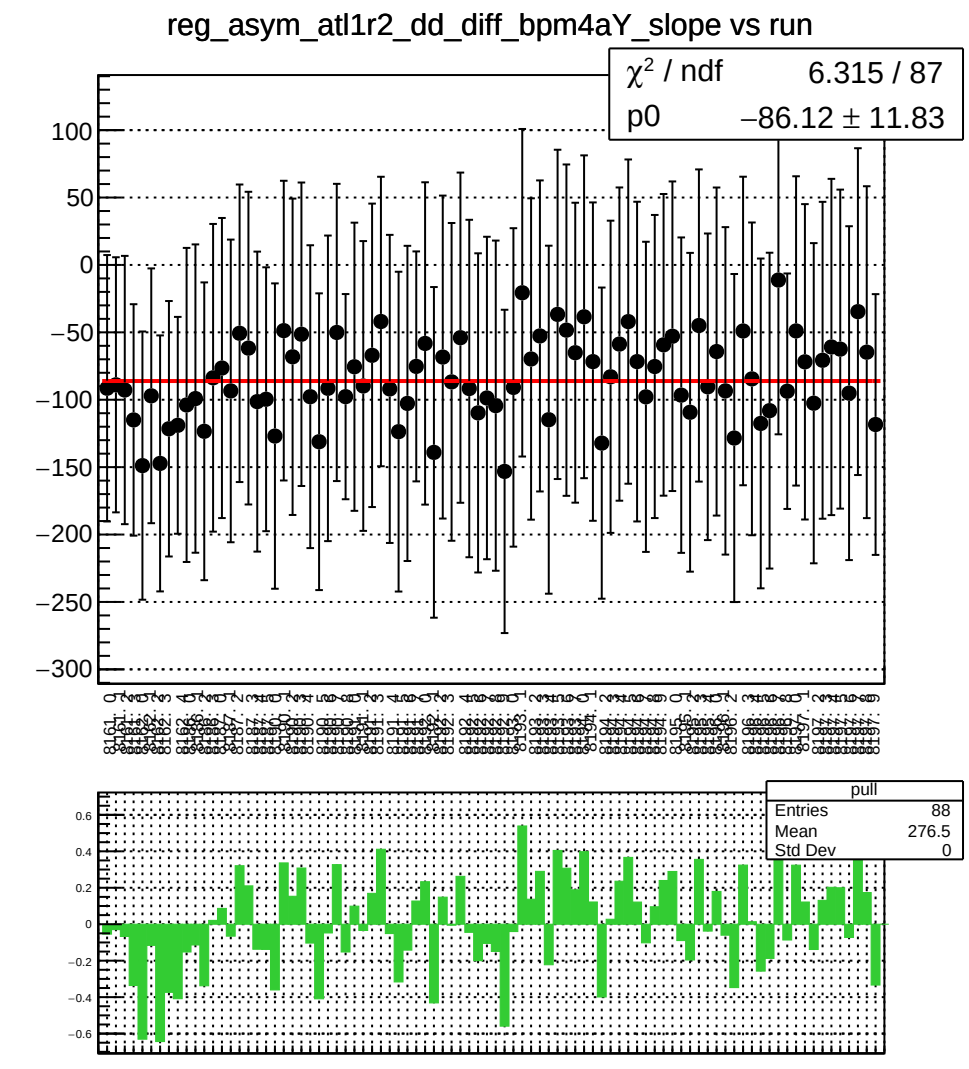

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.75 / 87
p0 315.6 ± 7.704
pull
Entries 88
Mean 239.2
Std Dev 0
pull1D
Entries 88
Mean −0.01284
Std Dev 0.2965

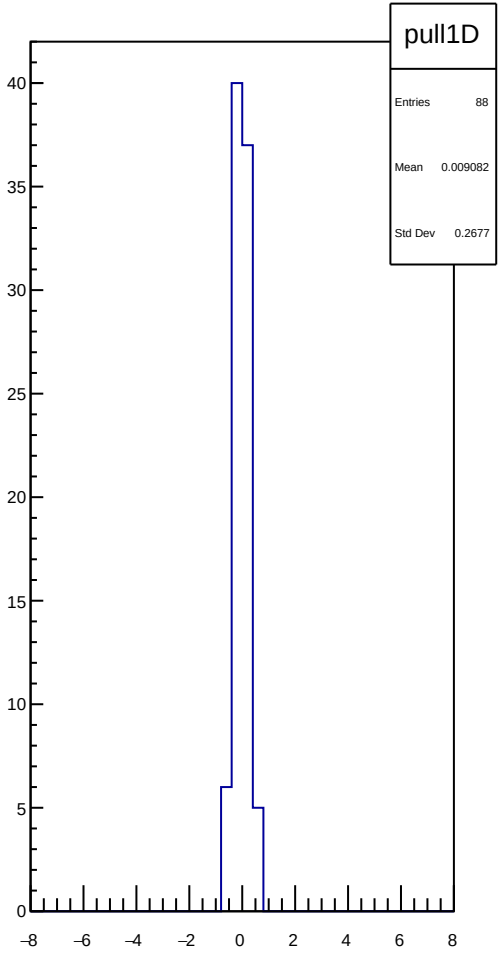

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.276 / 87
p0 −26.77 ± 13.8
200
100
0
−100
−200
pull
Entries 88
Mean 371.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

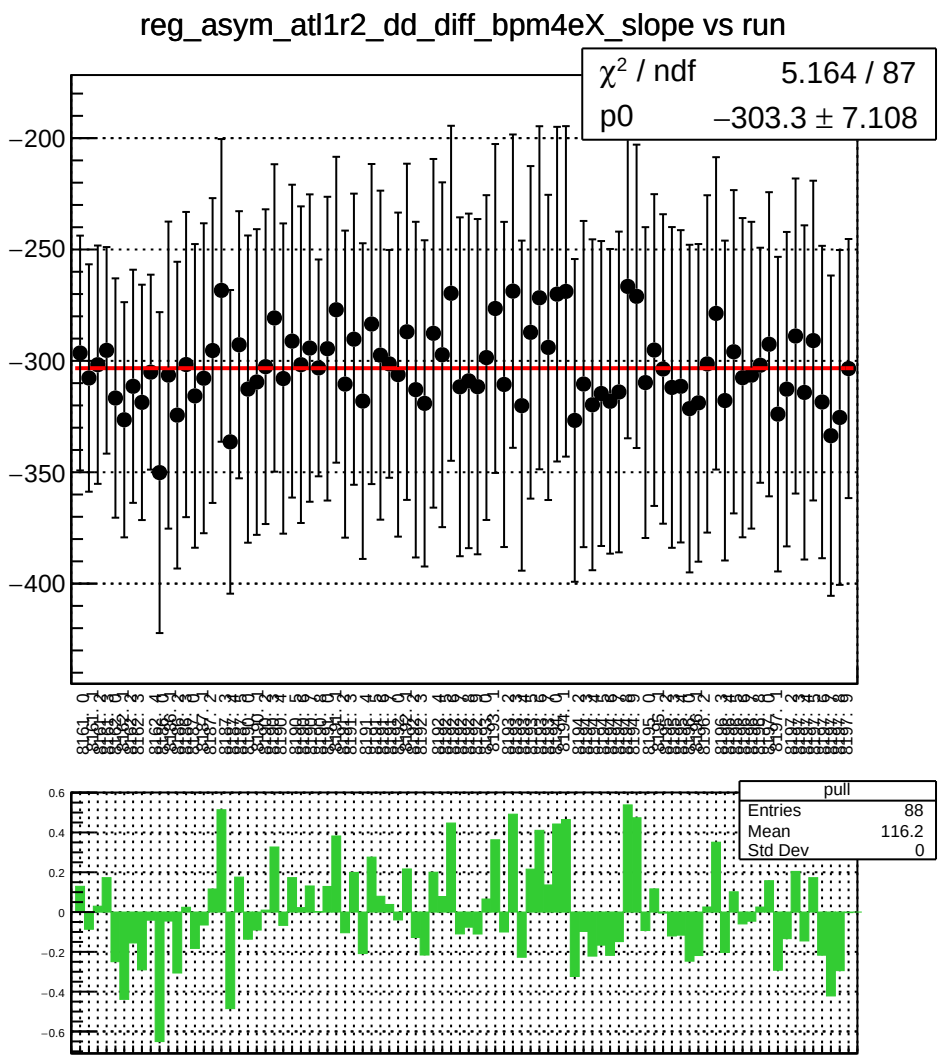

pull1D
Entries 88
Mean 0.003836
Std Dev 0.267
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

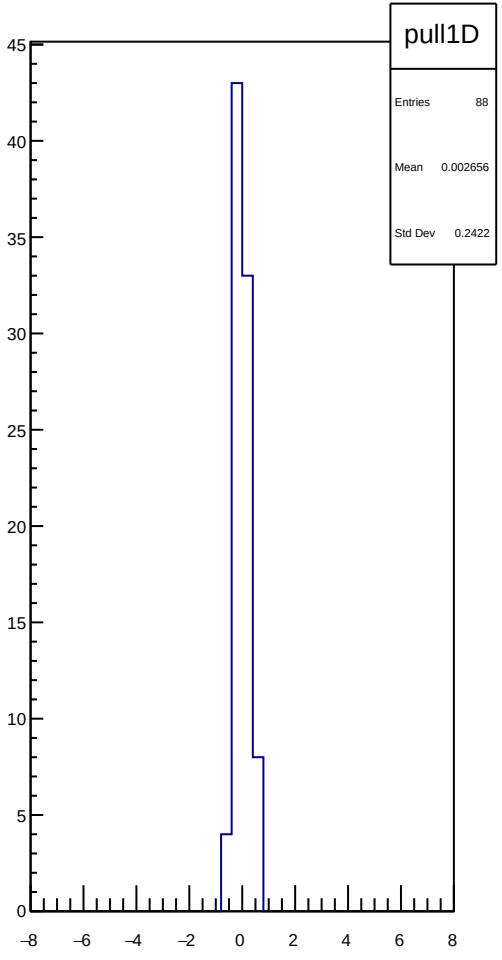

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 88.91 / 87
p0 −154.6 ± 0.624
pull
Entries 88
Mean −3654
Std Dev 0
pull1D
Entries 88
Mean −0.004258
Std Dev 1.005

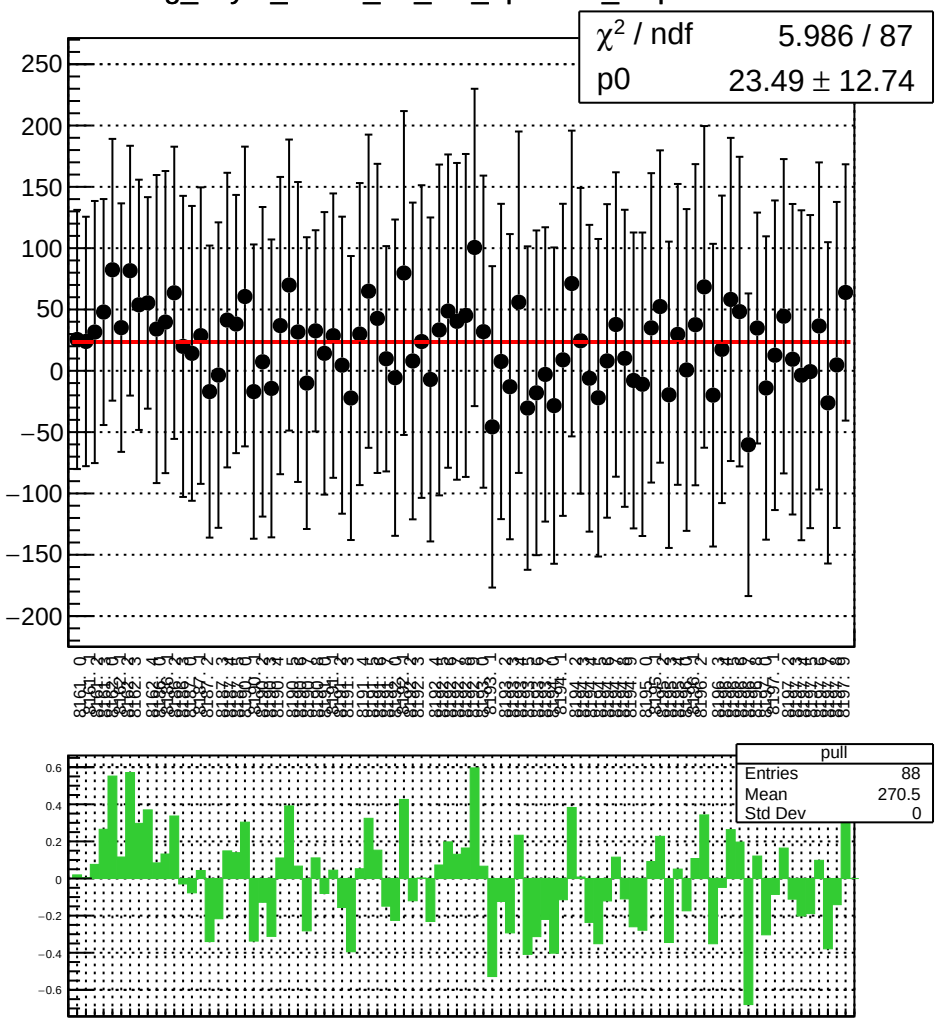

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.46 / 87
p0 298 ± 7.101
pull
Entries 88
Mean 58.58
Std Dev 0
pull1D
Entries 88
Mean −0.005725
Std Dev 0.249

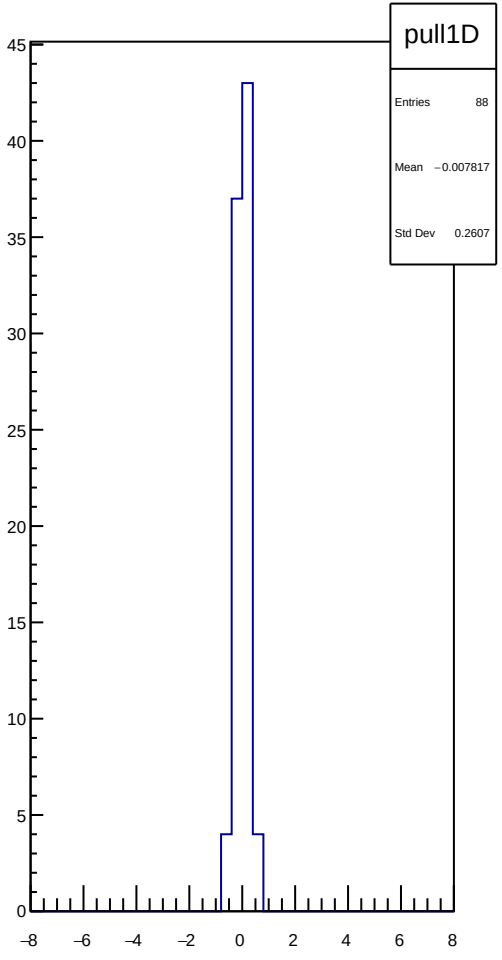

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.315 / 87
p0 −86.12 ± 11.83
pull
Entries 88
Mean 276.5
Std Dev 0

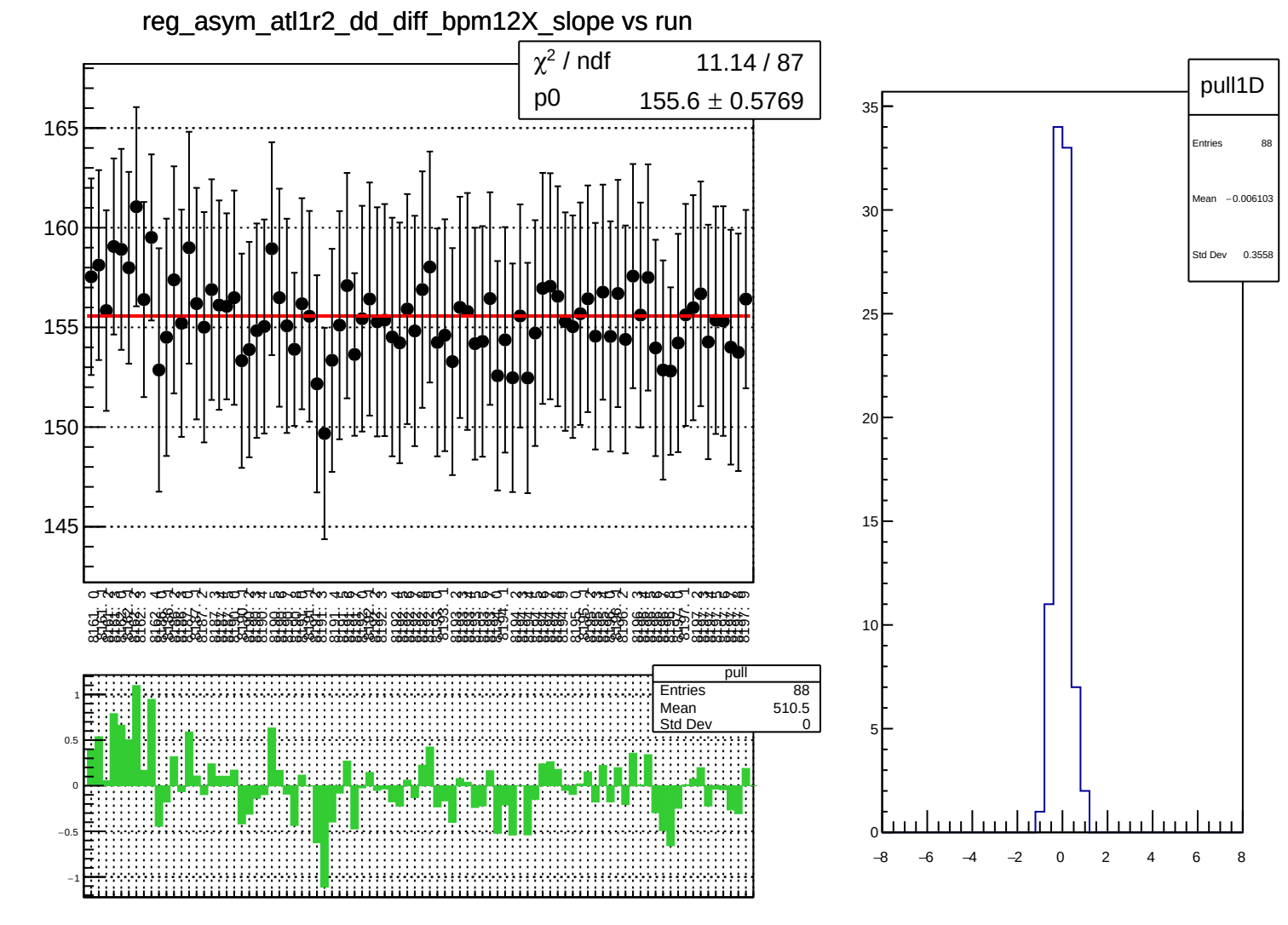

pull1D
Entries 88
Mean 0.009082
Std Dev 0.2677

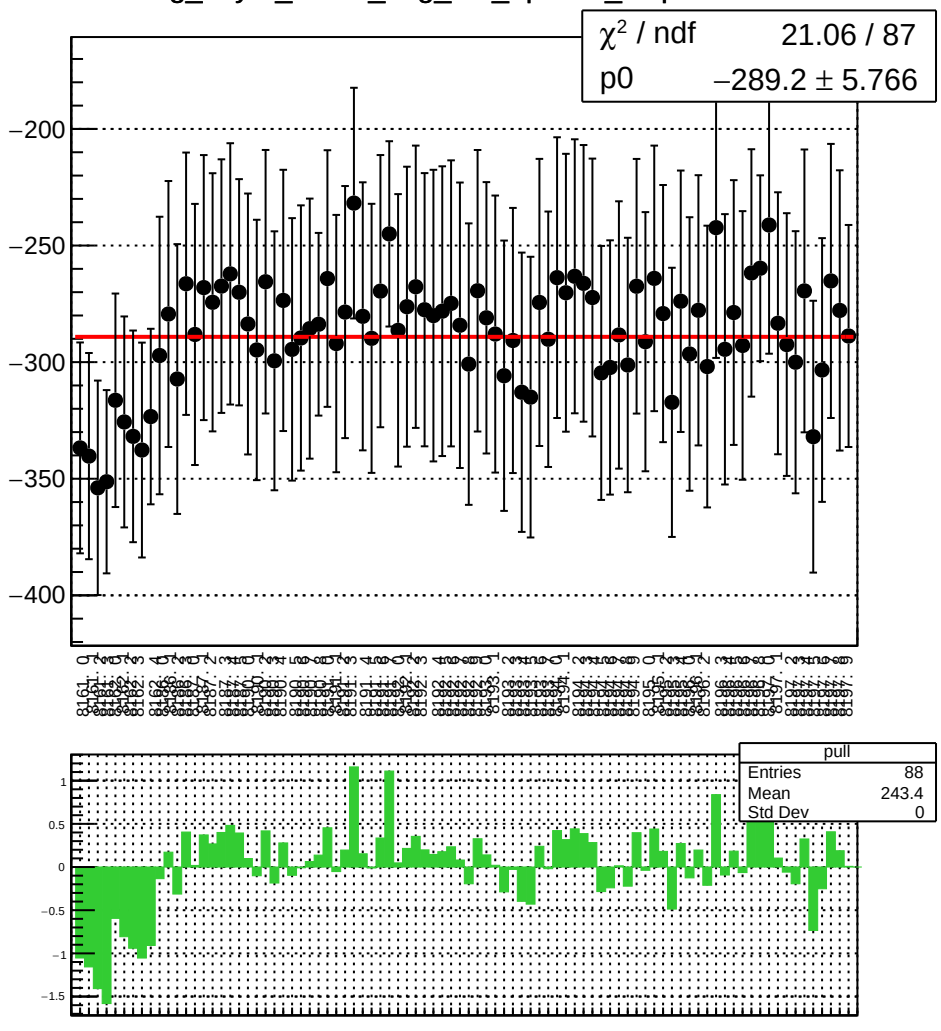

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.164 / 87
p0 −303.3 ± 7.108
−200
−250
−300
−350
−400
pull
Entries 88
Mean 116.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

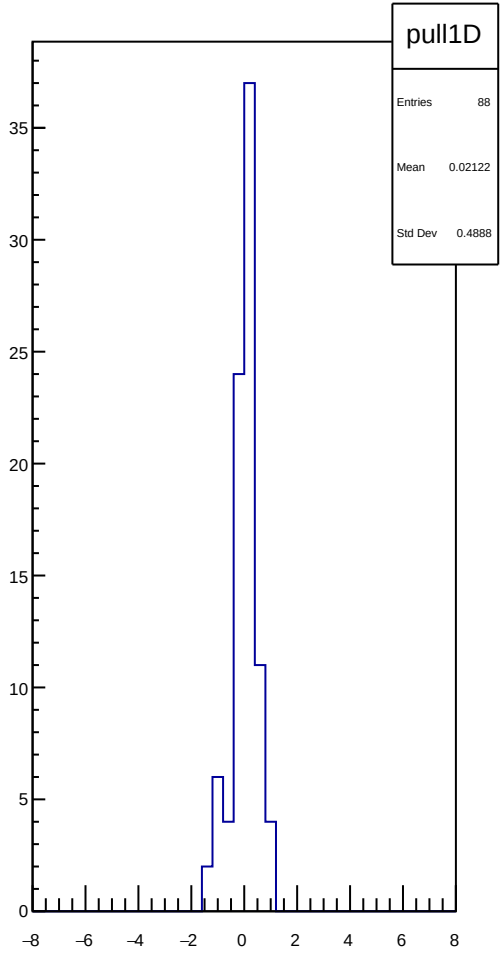

pull1D
Entries 88
Mean 0.002656
Std Dev 0.2422
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.986 / 87
p0 23.49 ± 12.74
pull
Entries 88
Mean 270.5
Std Dev 0


pull1D
Entries 88
Mean −0.007817
Std Dev 0.2607


reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.14 / 87
p0 155.6 ± 0.5769
165
160
155
150
145
pull
Entries 88
Mean 510.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.006103
Std Dev 0.3558
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 21.06 / 87
p0 −289.2 ± 5.766
−200
−250
−300
−350
−400
pull
Entries 88
Mean 243.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 88
Mean 0.02122
Std Dev 0.4888
35
30
25
20
15
10
5
0
−8
−6
−4
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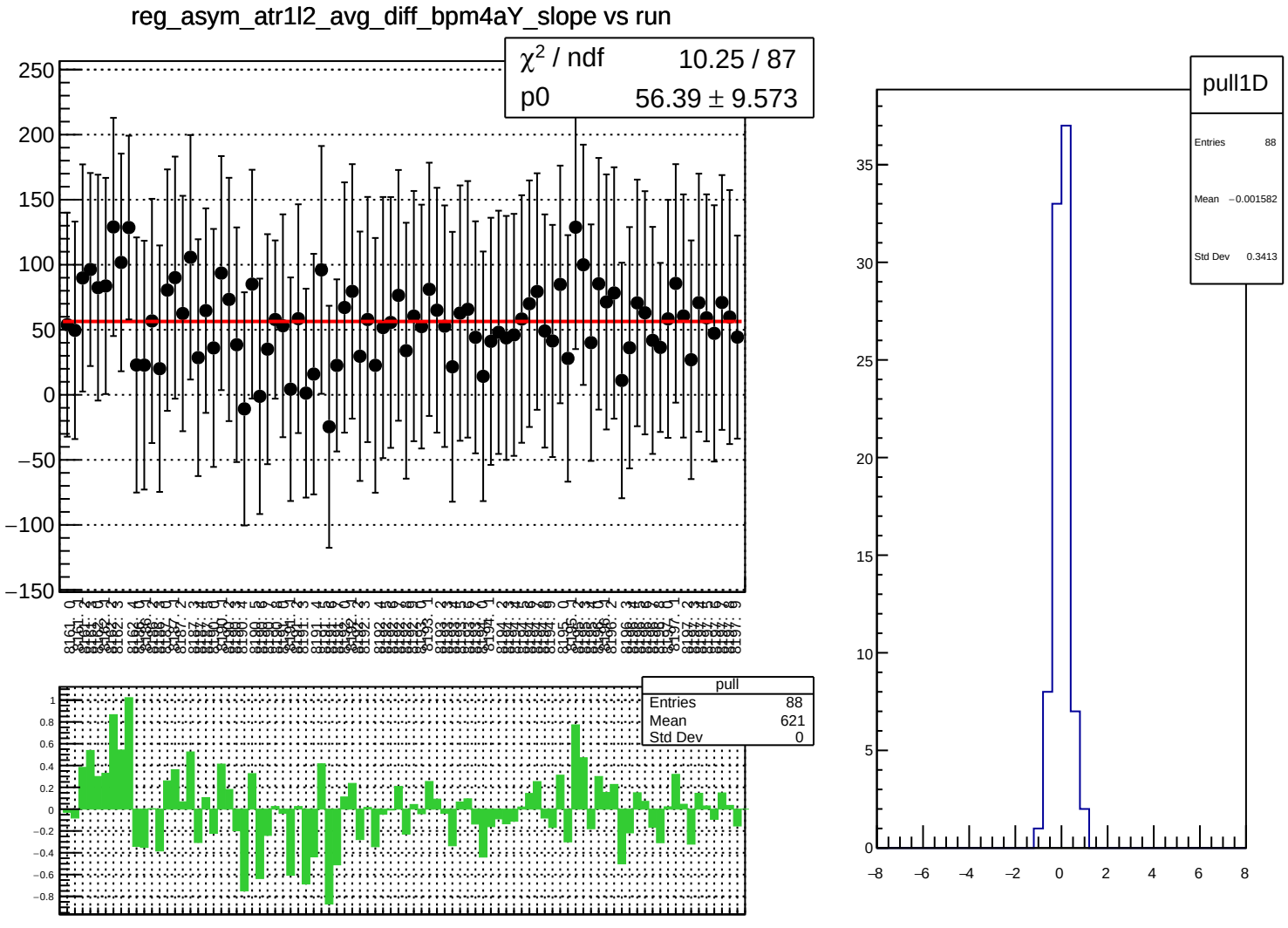
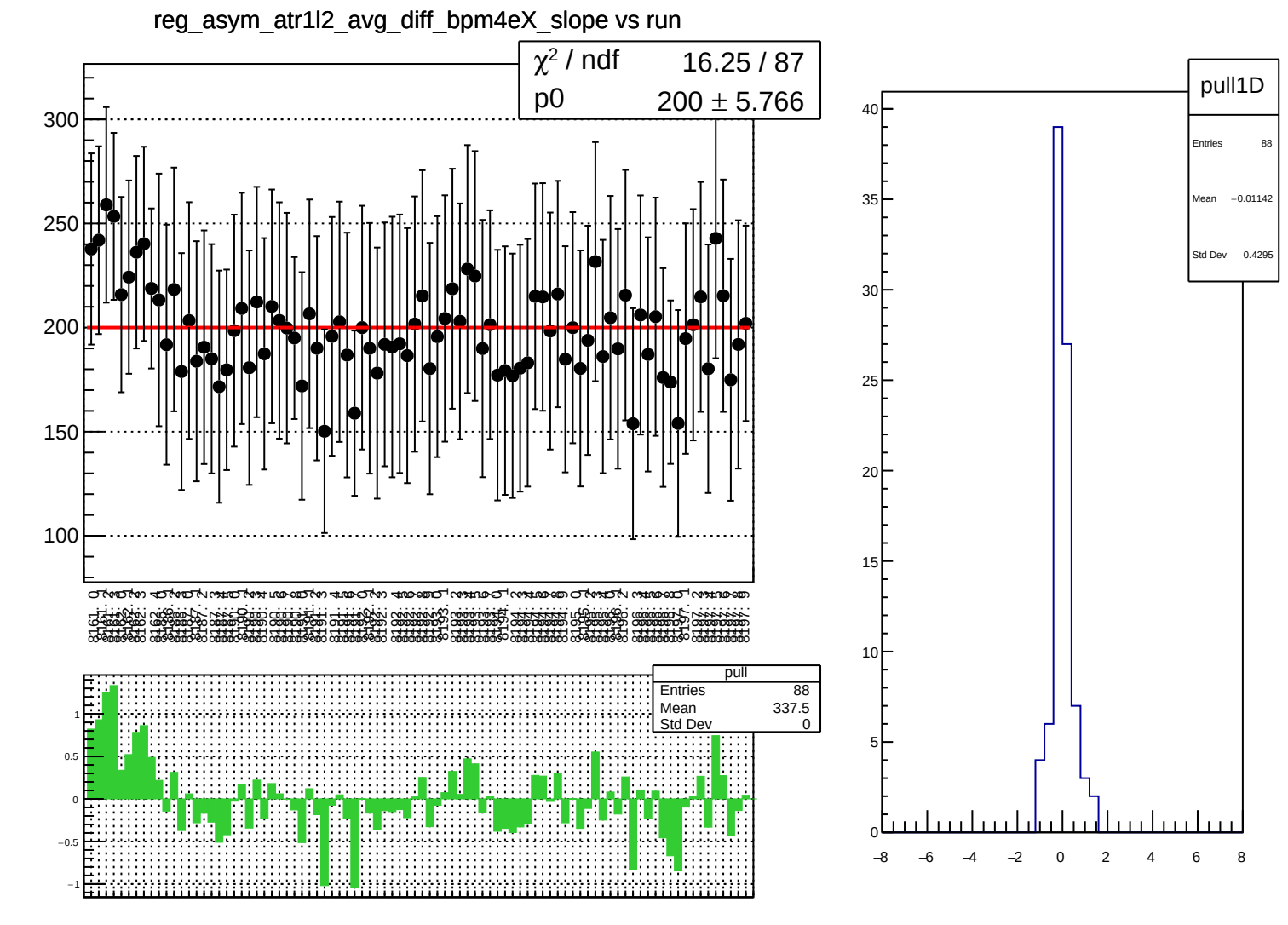
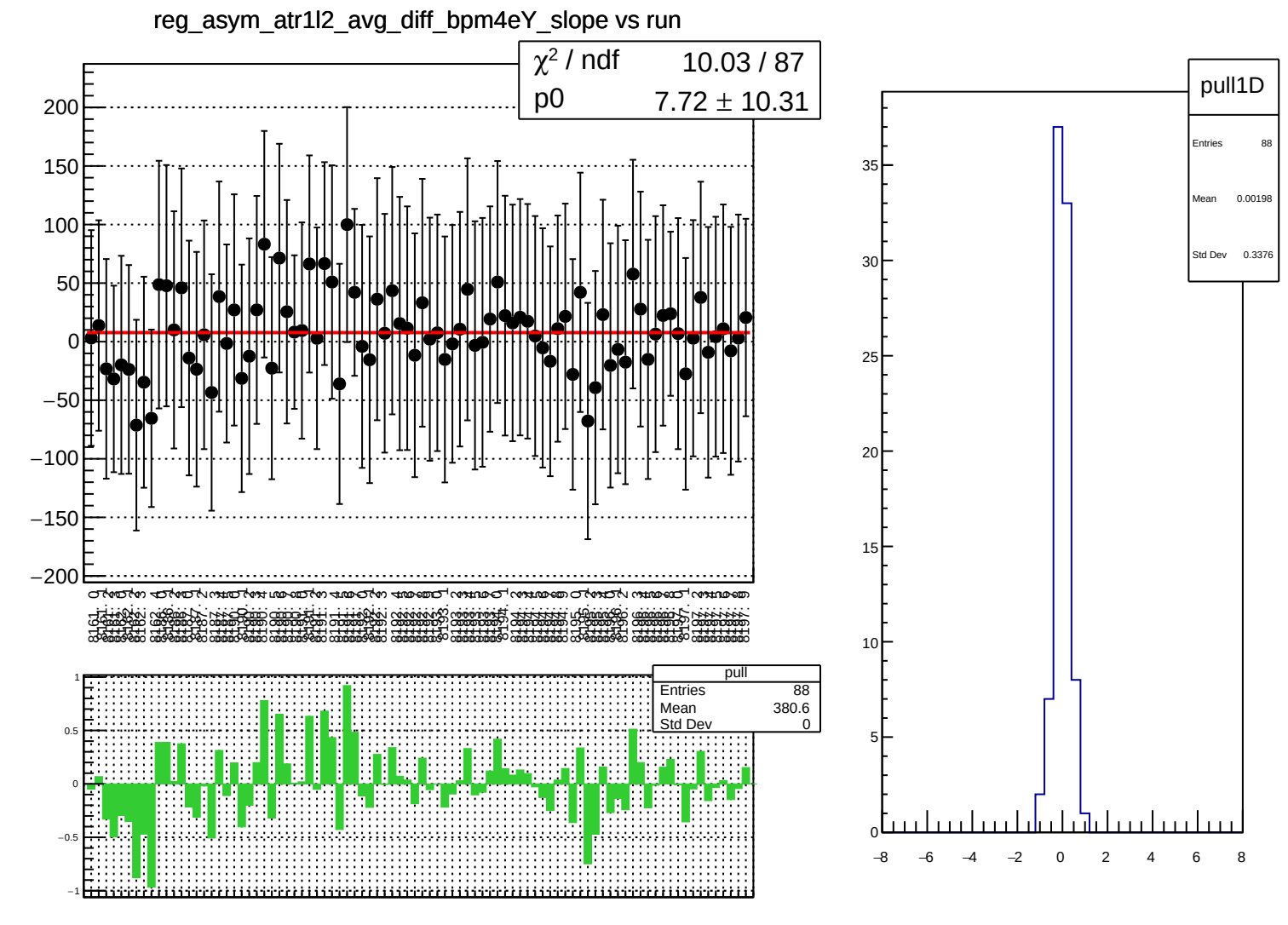
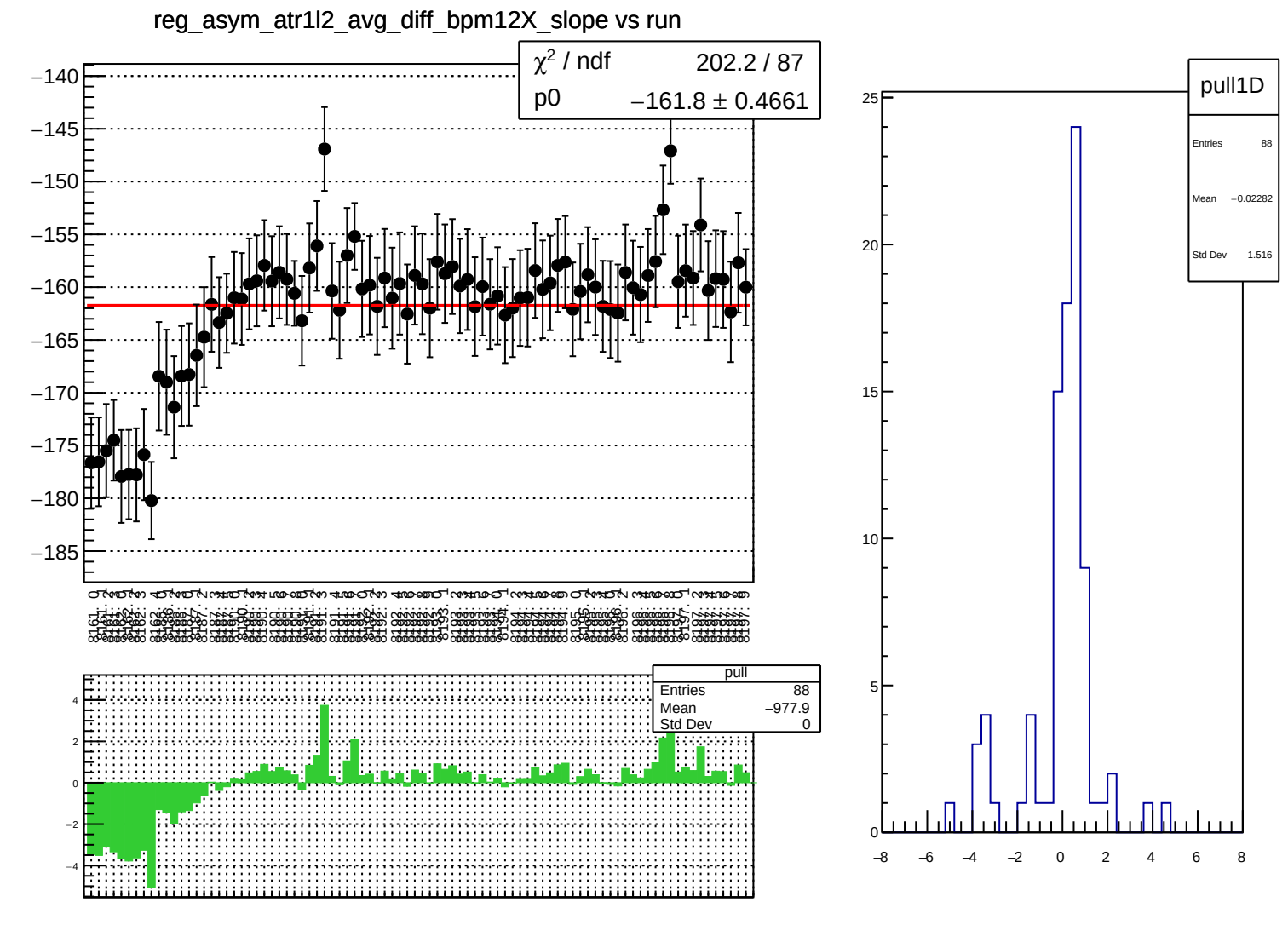
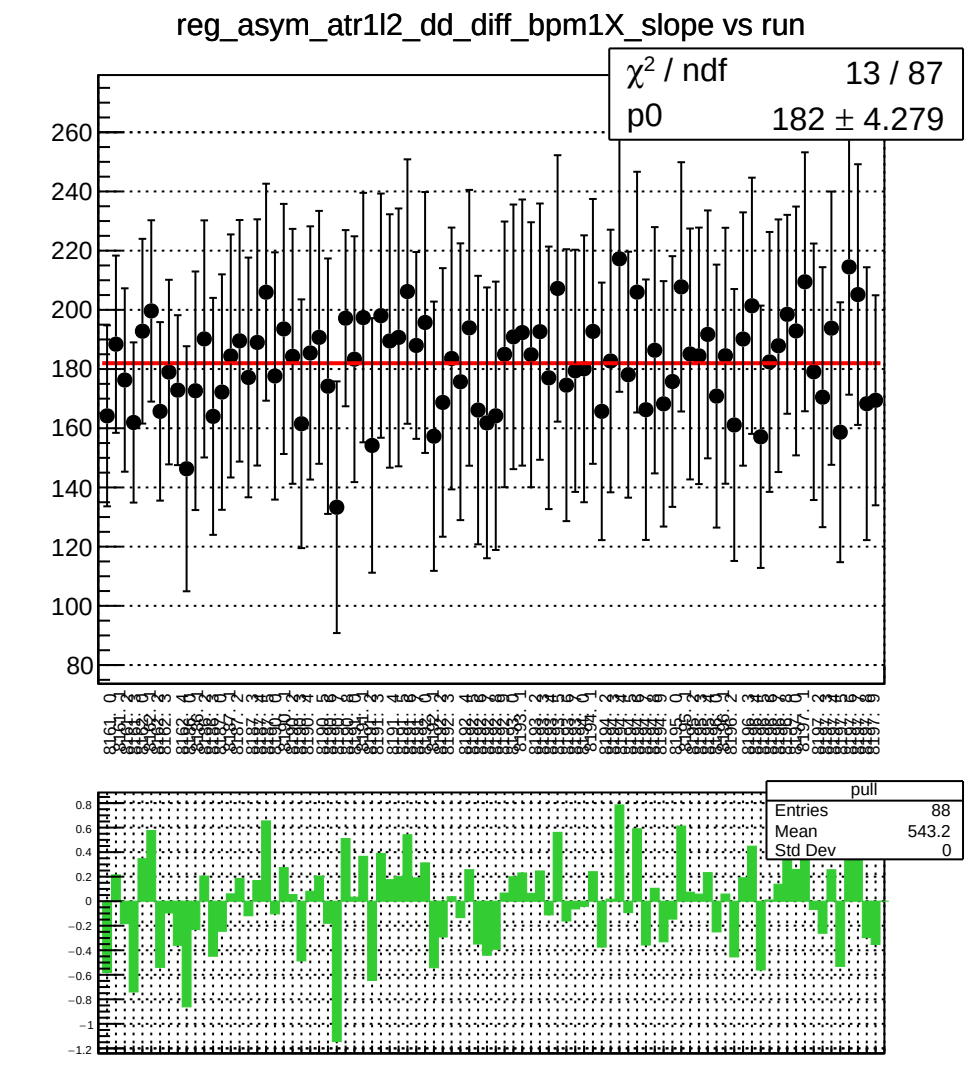
0
2
4
6
8

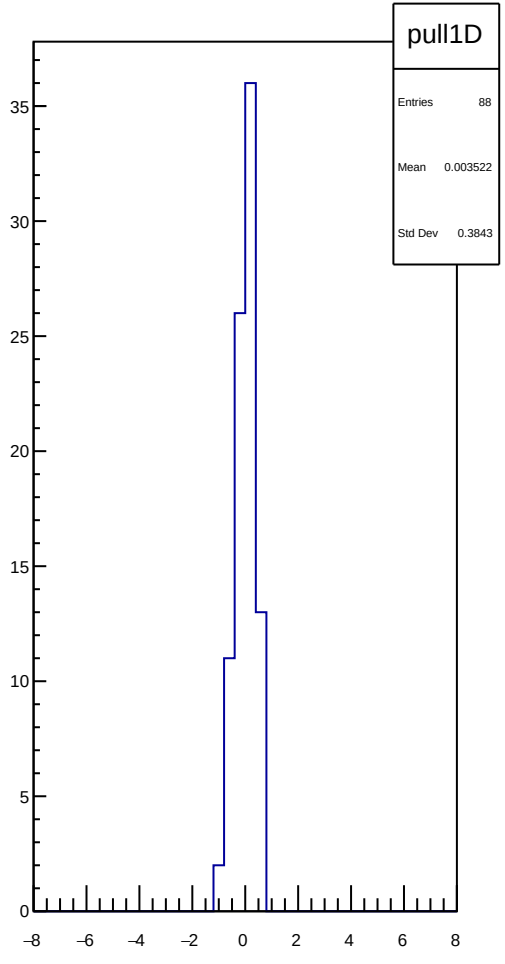

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.25 / 87
p0 56.39 ± 9.573
pull
Entries 88
Mean 621
Std Dev 0
pull1D
Entries 88
Mean −0.001582
Std Dev 0.3413

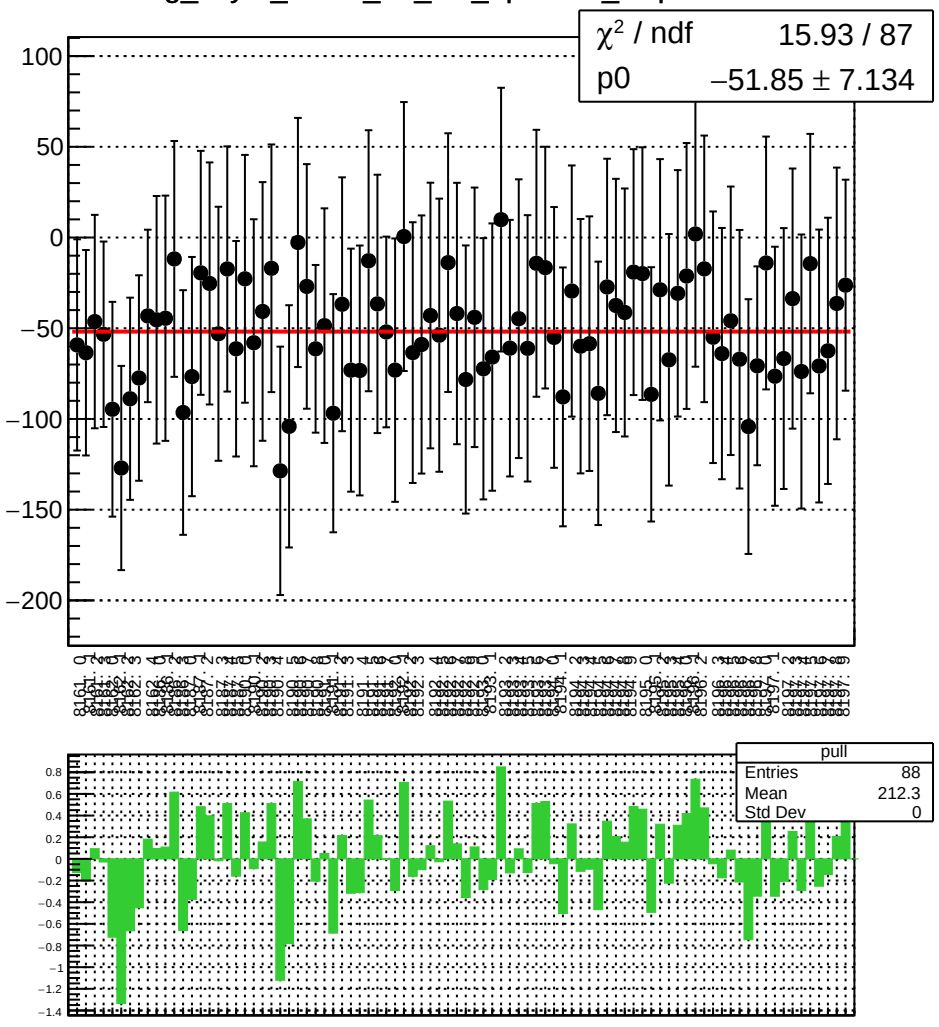

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.25 / 87
p0 200 ± 5.766
300
250
200
150
100
pull
Entries 88
Mean 337.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.01142
Std Dev 0.4295
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

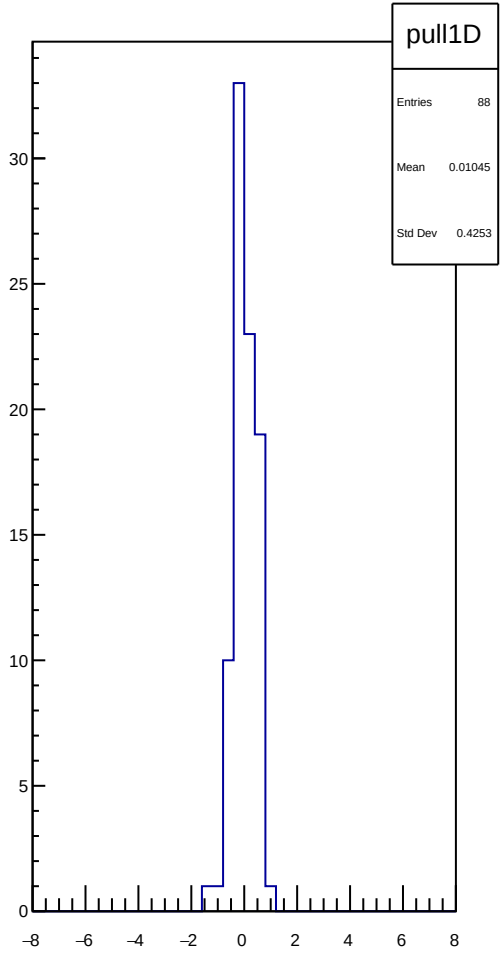

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.03 / 87
p0 7.72 ± 10.31
pull
Entries 88
Mean 380.6
Std Dev 0
pull1D
Entries 88
Mean 0.00198
Std Dev 0.3376

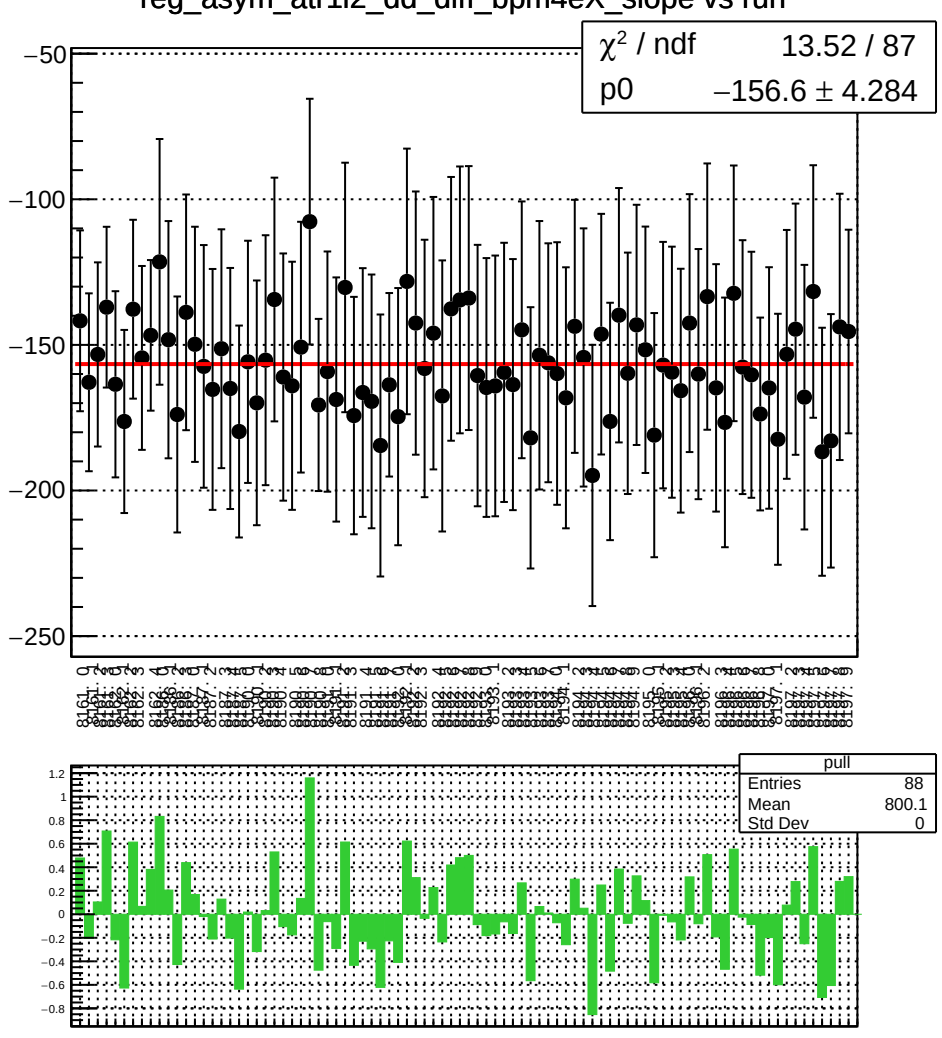

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 202.2 / 87
p0 −161.8 ± 0.4661
pull
Entries 88
Mean −977.9
Std Dev 0
pull1D
Entries 88
Mean −0.02282
Std Dev 1.516

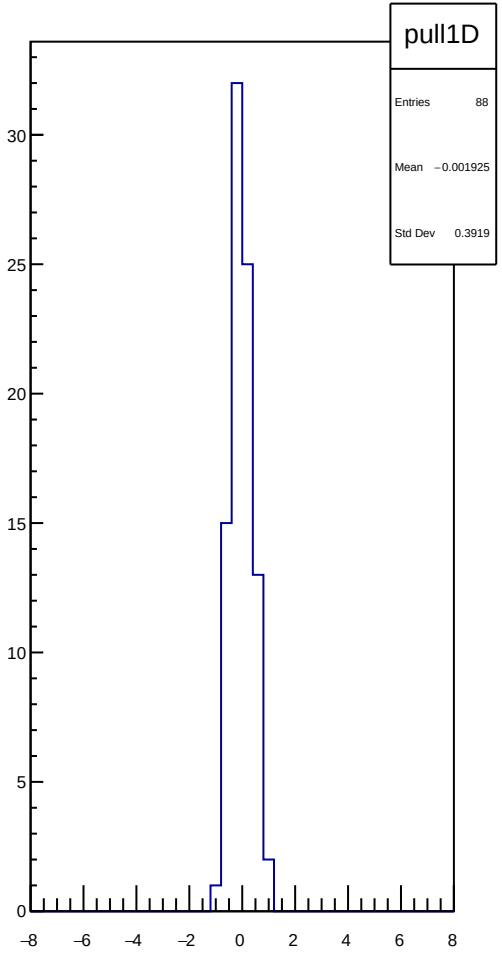

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 13 / 87
p0 182 ± 4.279
pull
Entries 88
Mean 543.2
Std Dev 0

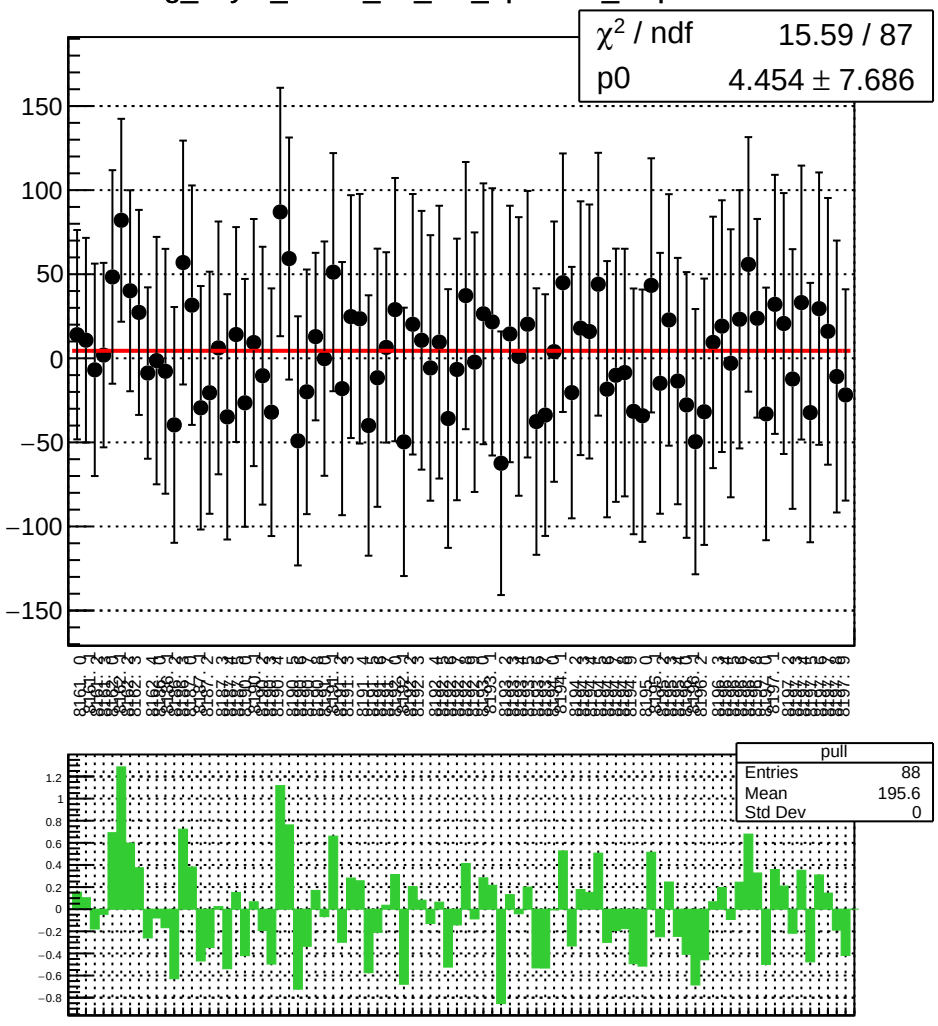

pull1D
Entries 88
Mean 0.003522
Std Dev 0.3843

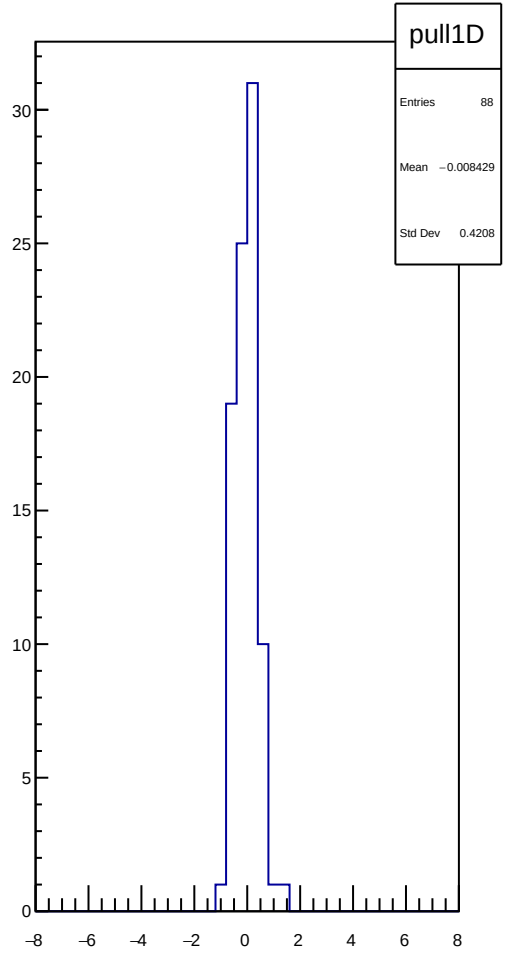

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.93 / 87
p0 −51.85 ± 7.134
pull
Entries 88
Mean 212.3
Std Dev 0

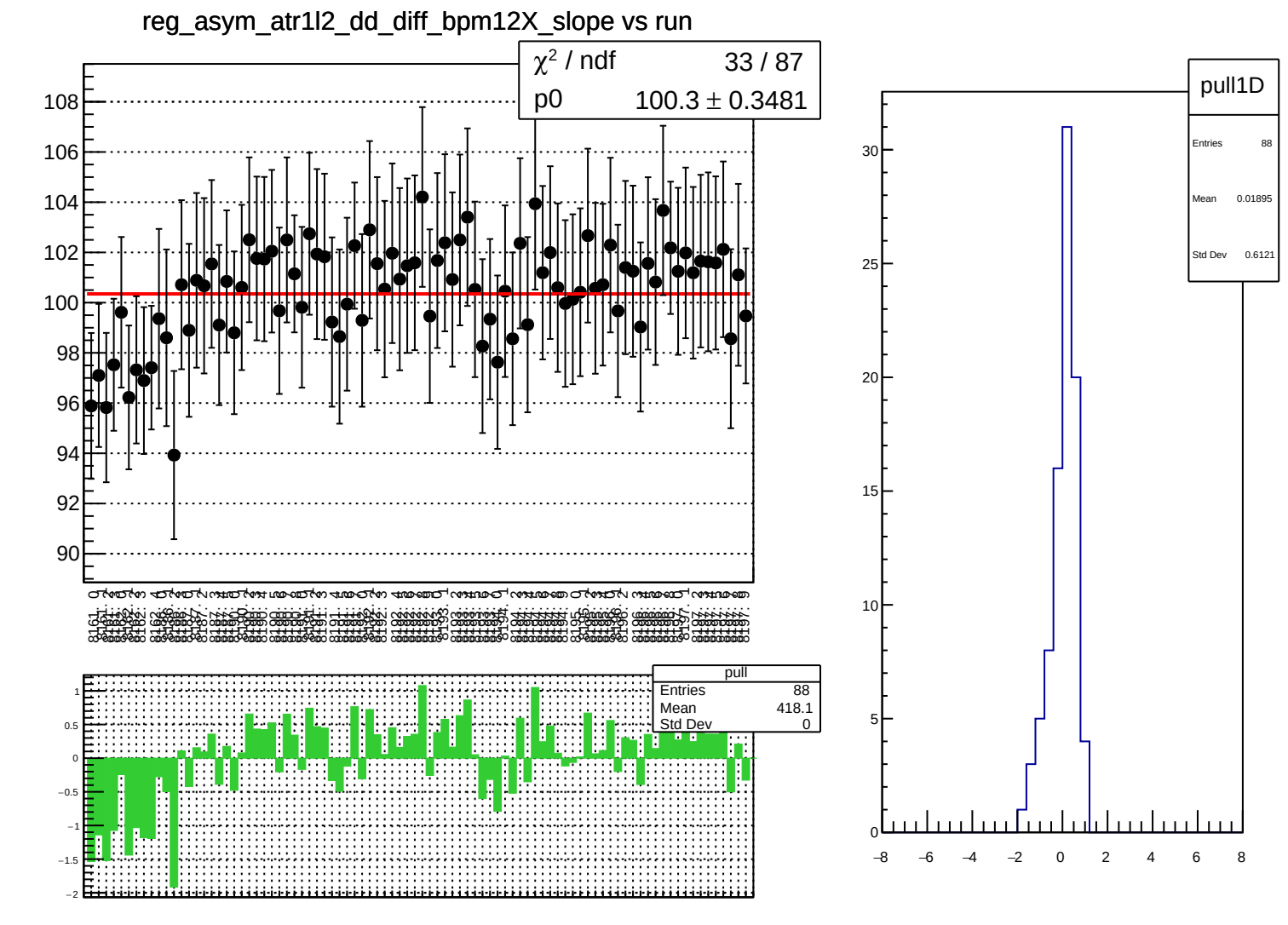

pull1D
Entries 88
Mean 0.01045
Std Dev 0.4253

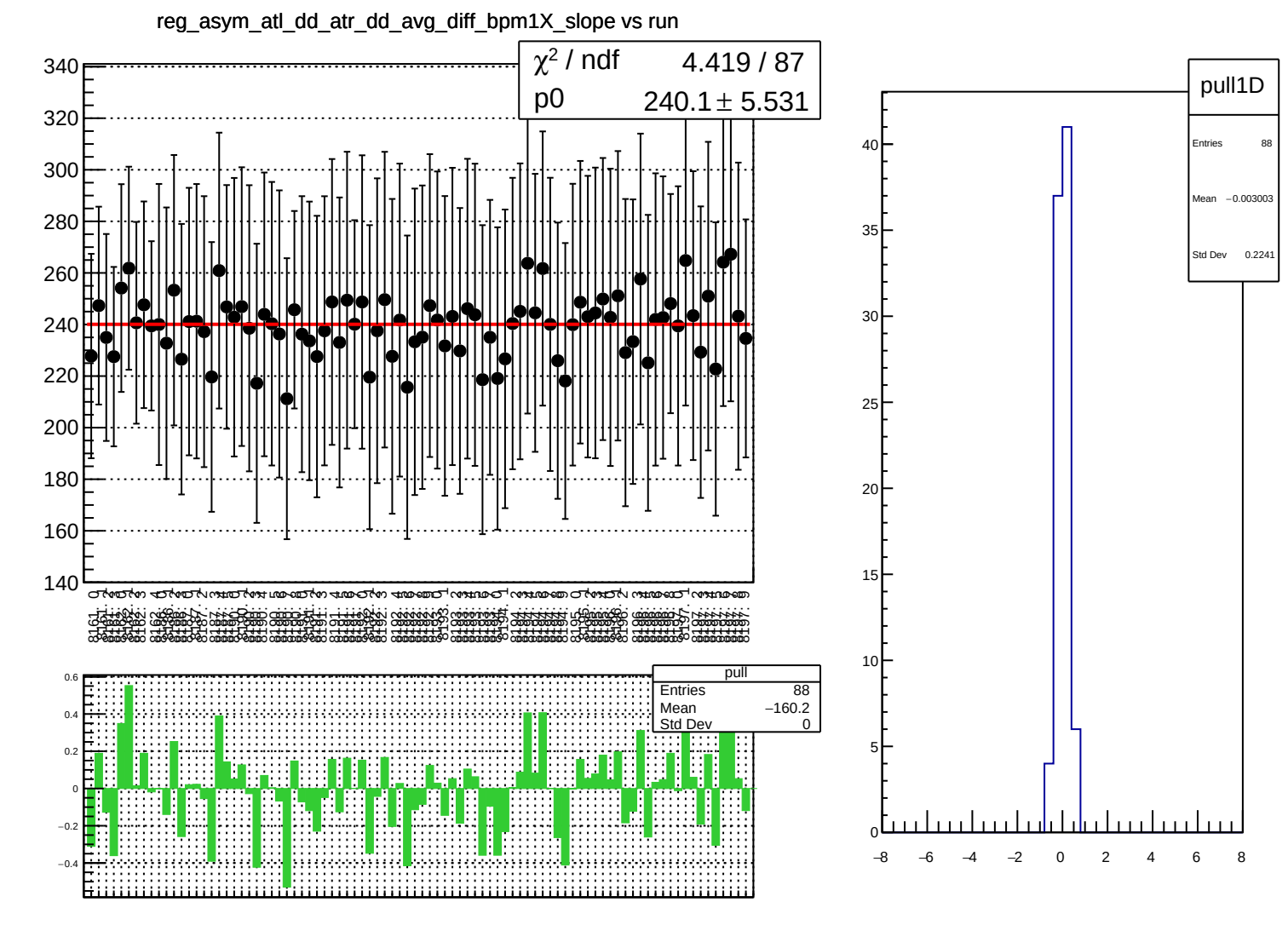

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.52 / 87
p0 −156.6 ± 4.284
pull
Entries 88
Mean 800.1
Std Dev 0

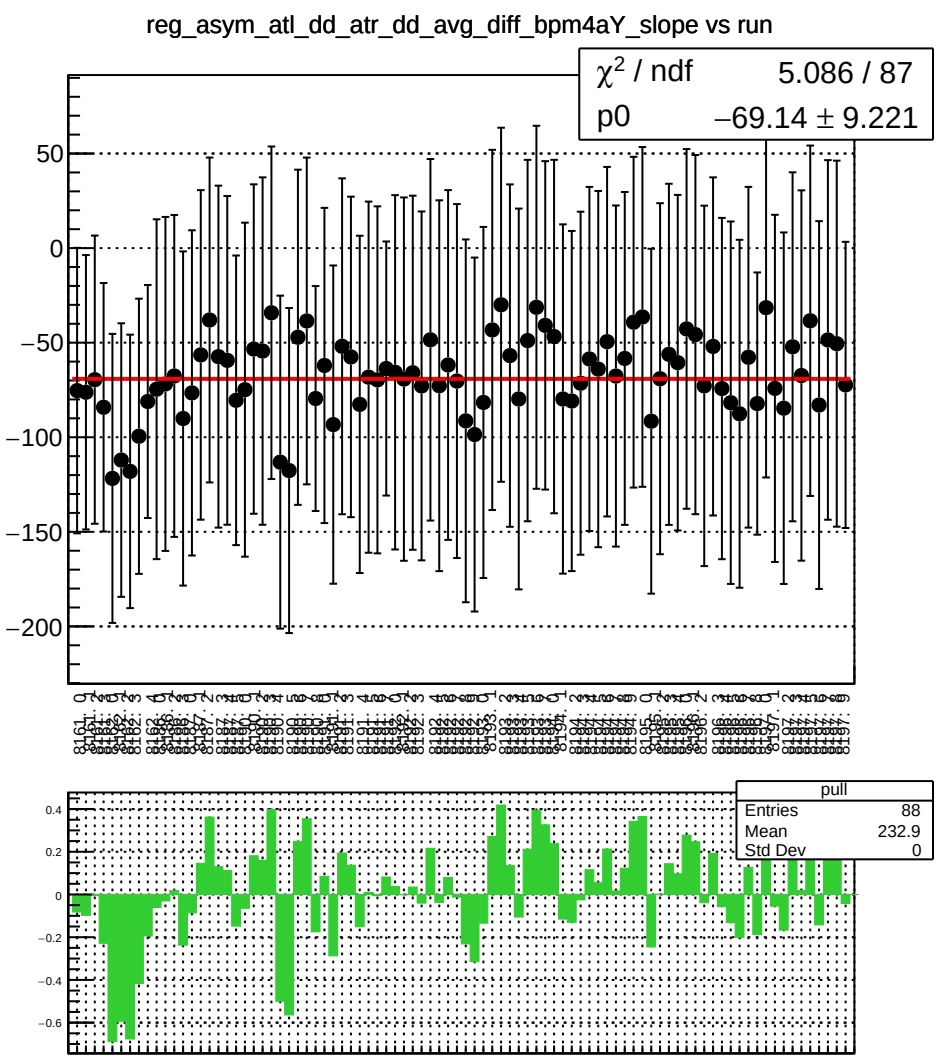

pull1D
Entries 88
Mean −0.001925
Std Dev 0.3919

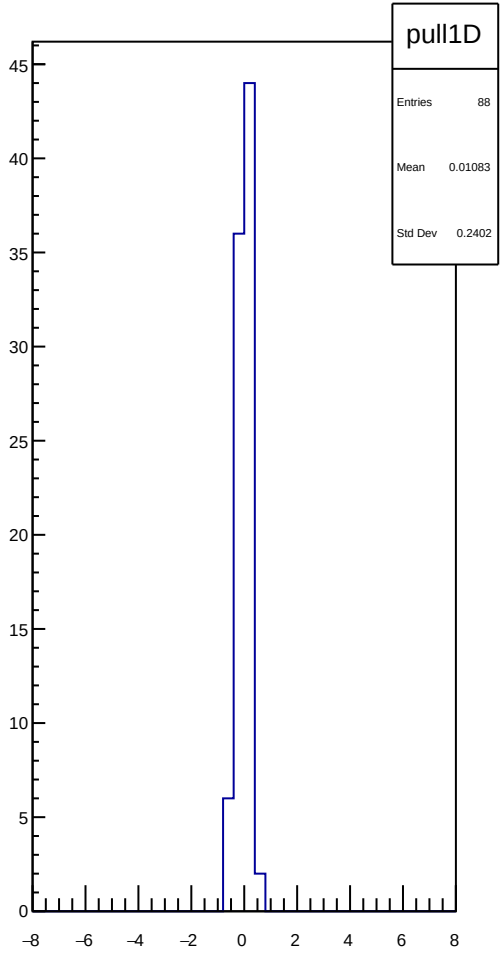

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.59 / 87
p0 4.454 ± 7.686
pull
Entries 88
Mean 195.6
Std Dev 0

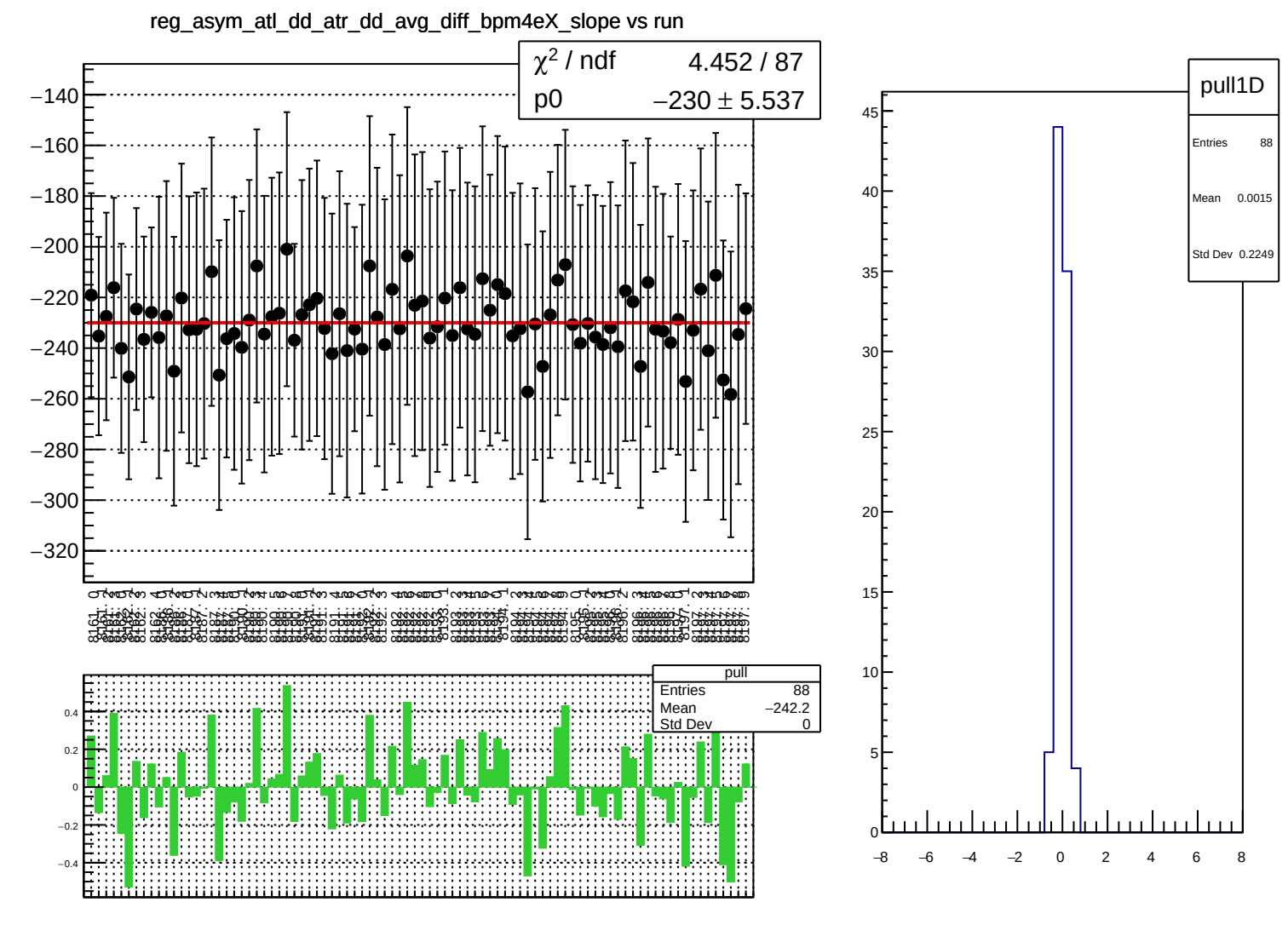

pull1D
Entries 88
Mean −0.008429
Std Dev 0.4208

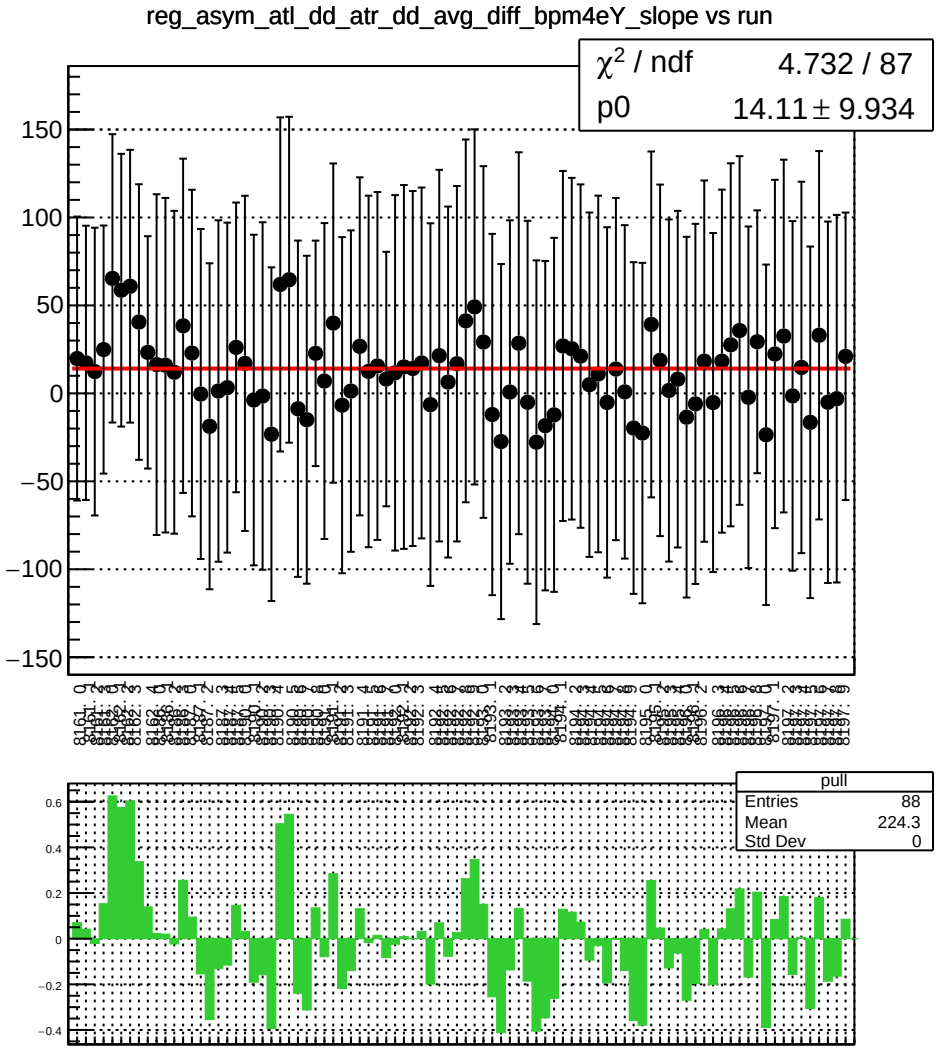

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 33 / 87
p0 100.3 ± 0.3481
pull
Entries 88
Mean 418.1
Std Dev 0
pull1D
Entries 88
Mean 0.01895
Std Dev 0.6121

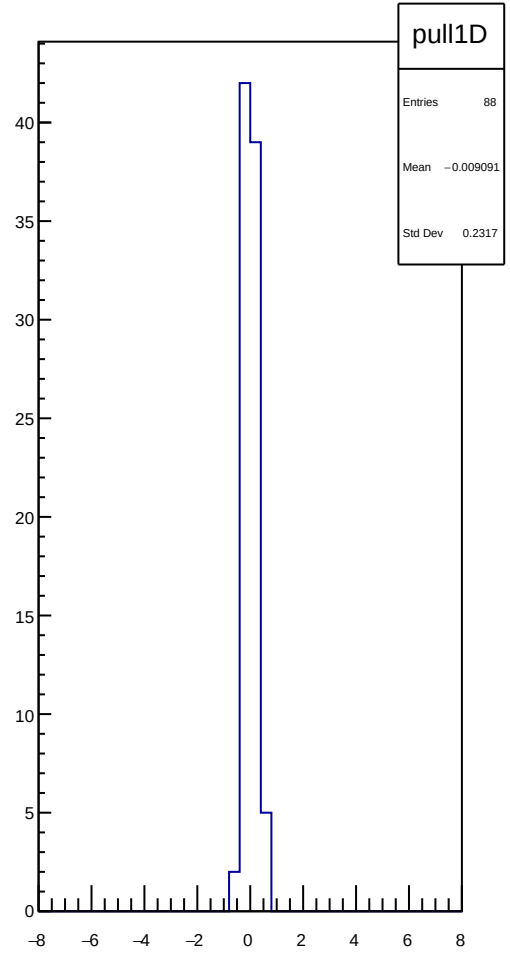

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 4.419 / 87
p0 240.1 ± 5.531
pull
Entries 88
Mean −160.2
Std Dev 0
pull1D
Entries 88
Mean −0.003003
Std Dev 0.2241

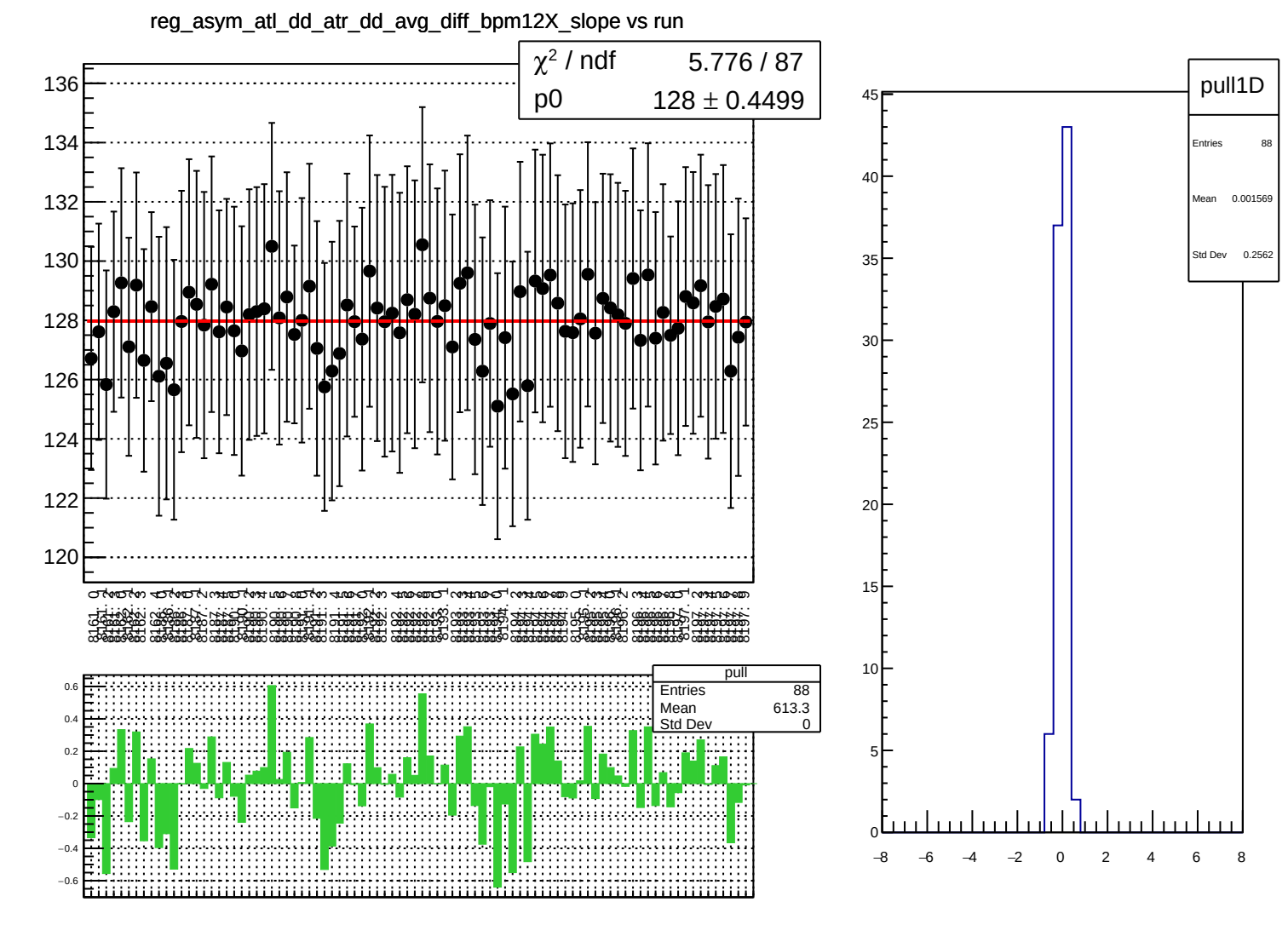

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.086 / 87
p0 −69.14 ± 9.221
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 232.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

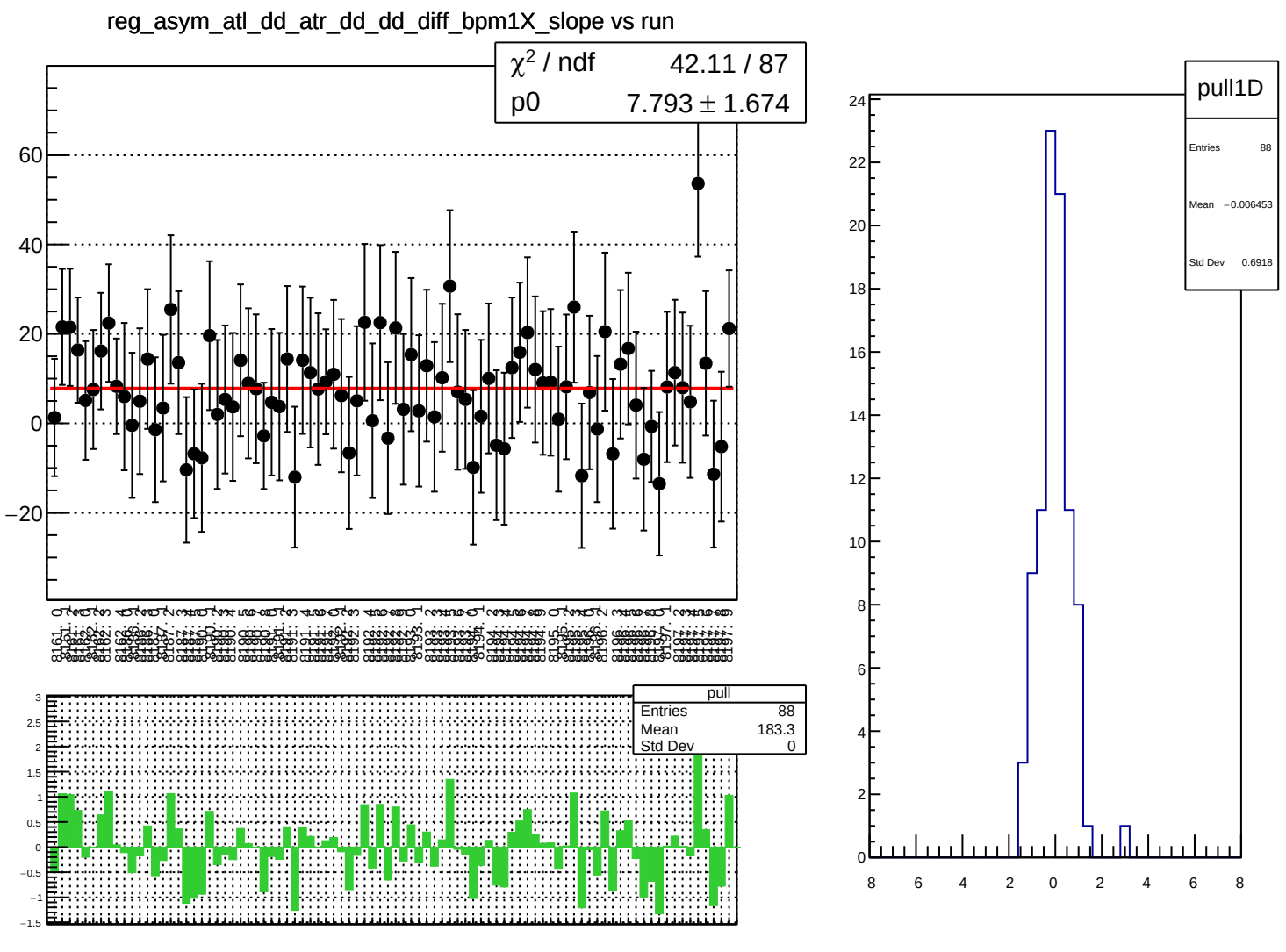

pull1D
Entries 88
Mean 0.01083
Std Dev 0.2402
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

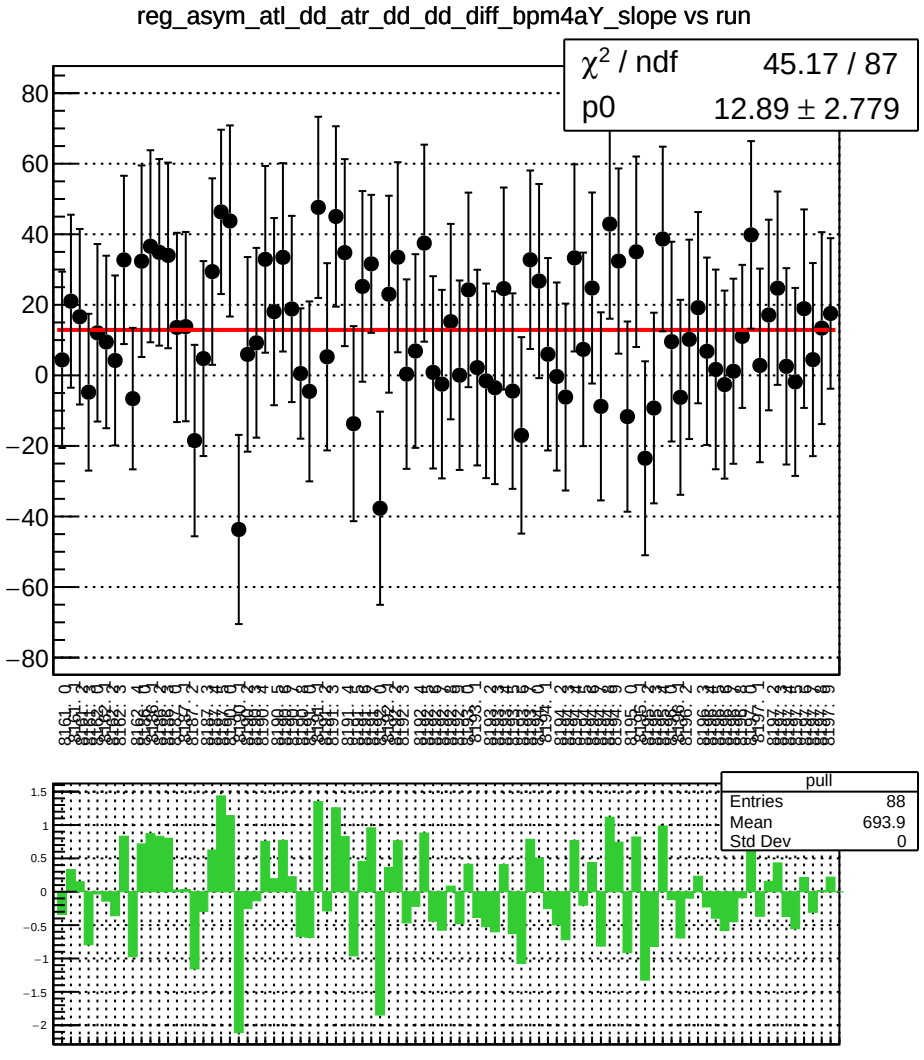

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.452 / 87
p0 −230 ± 5.537
pull
Entries 88
Mean −242.2
Std Dev 0
pull1D
Entries 88
Mean 0.0015
Std Dev 0.2249

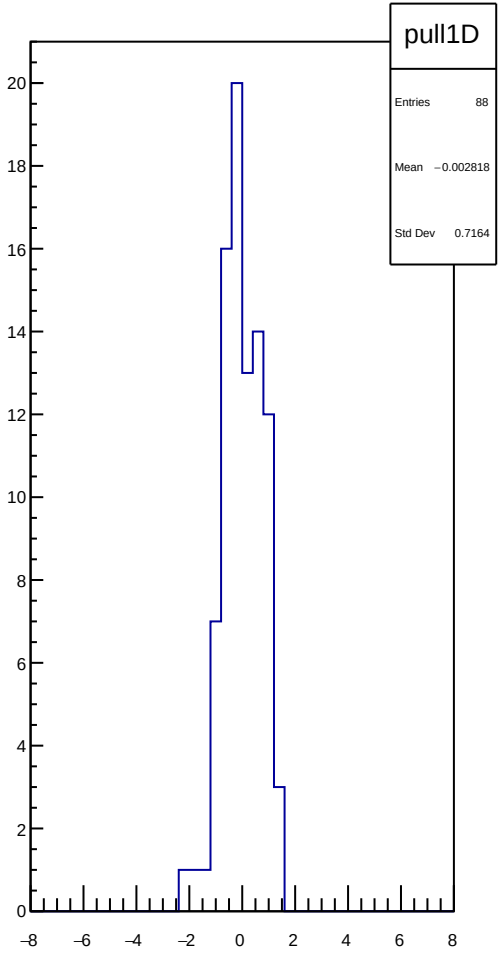

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.732 / 87
p0 14.11 ± 9.934
pull
Entries 88
Mean 224.3
Std Dev 0

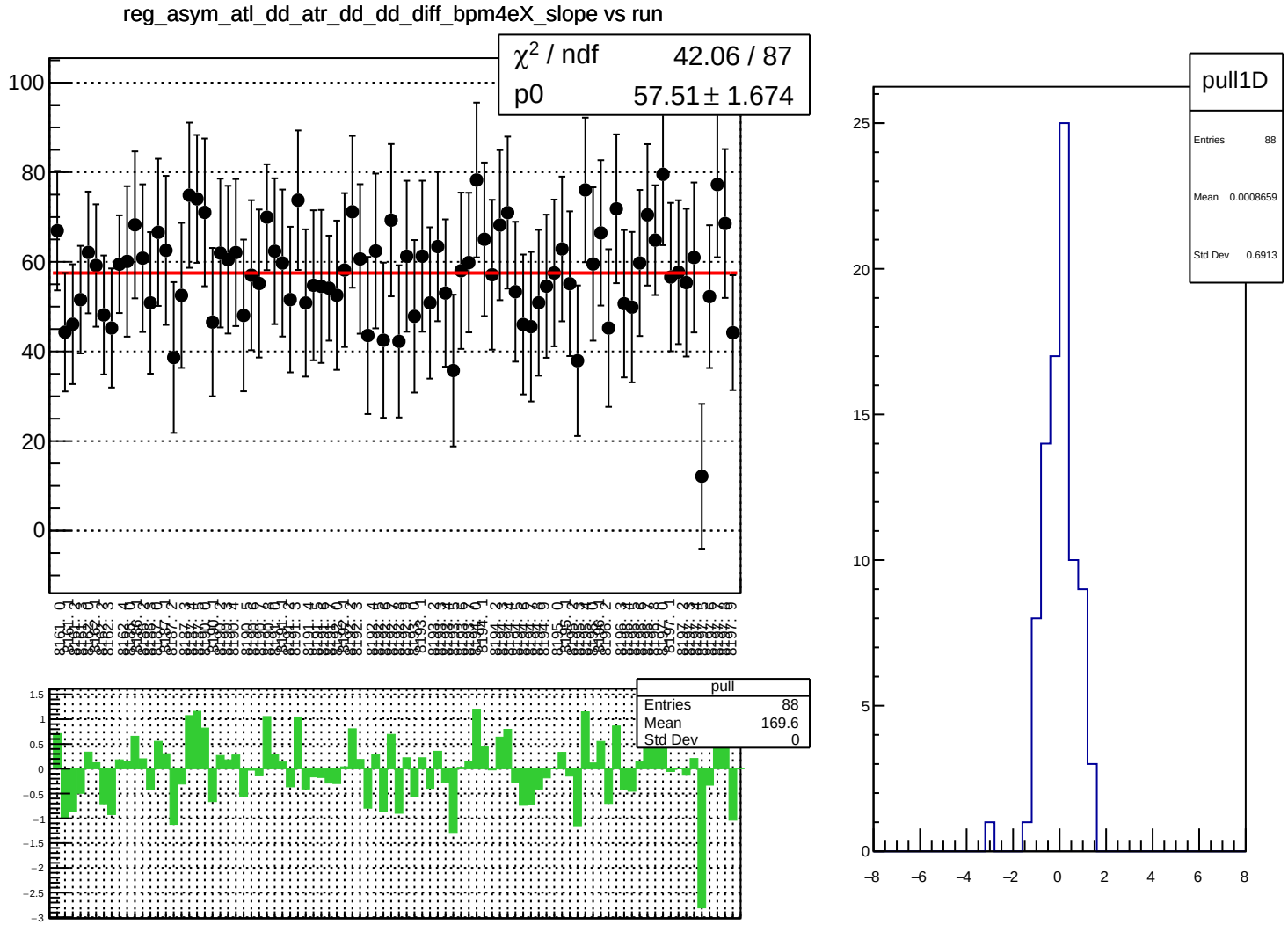

pull1D
Entries 88
Mean −0.009091
Std Dev 0.2317

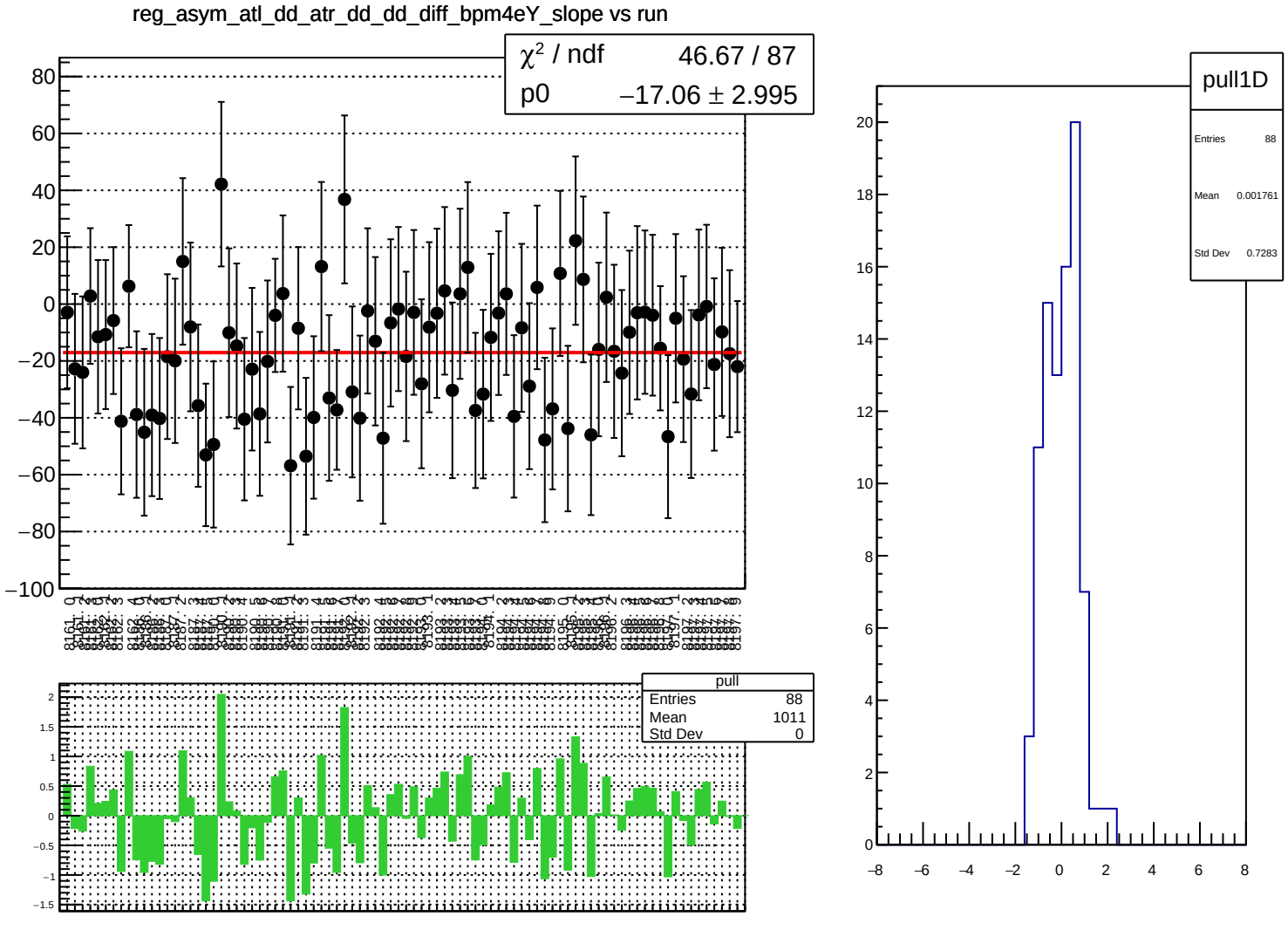

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 5.776 / 87
p0 128 ± 0.4499
pull
Entries 88
Mean 613.3
Std Dev 0
pull1D
Entries 88
Mean 0.001569
Std Dev 0.2562

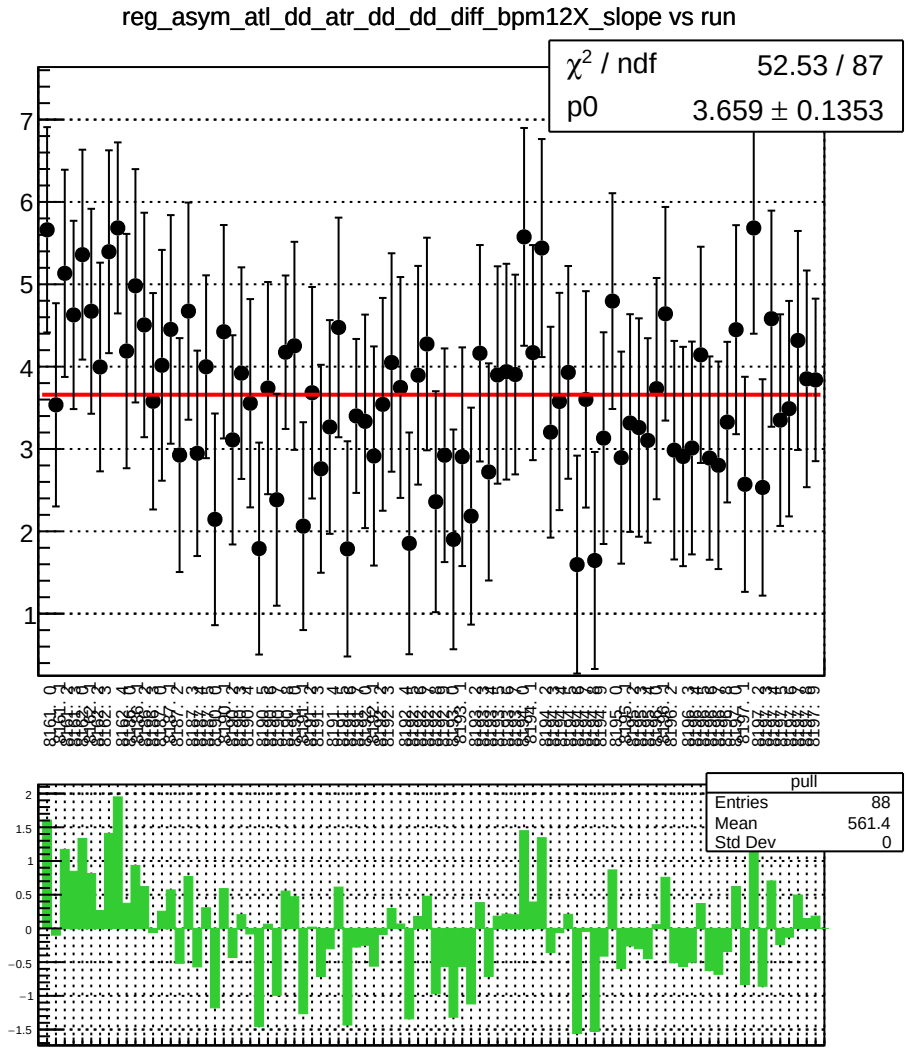

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 42.11 / 87
p0 7.793 ± 1.674
pull
Entries 88
Mean 183.3
Std Dev 0
pull1D
Entries 88
Mean −0.006453
Std Dev 0.6918

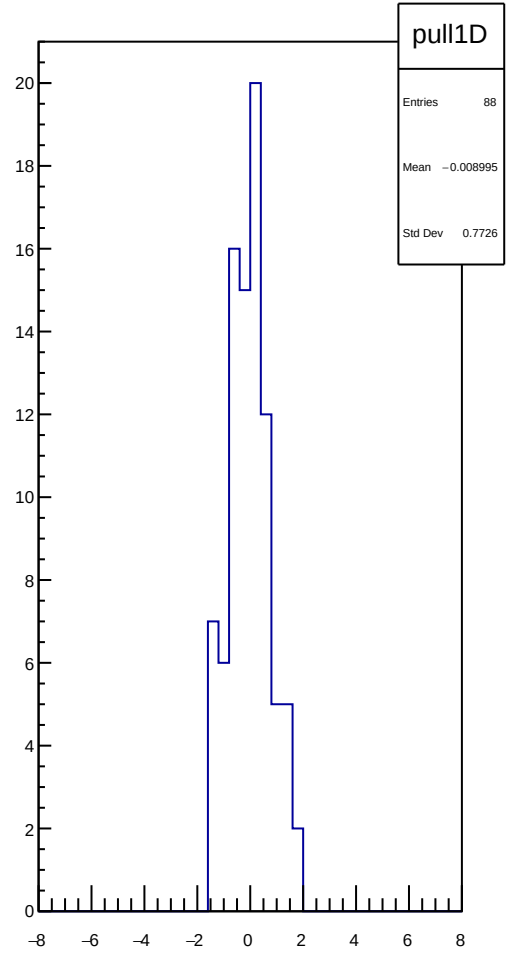

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.17 / 87
p0 12.89 ± 2.779
pull
Entries 88
Mean 693.9
Std Dev 0

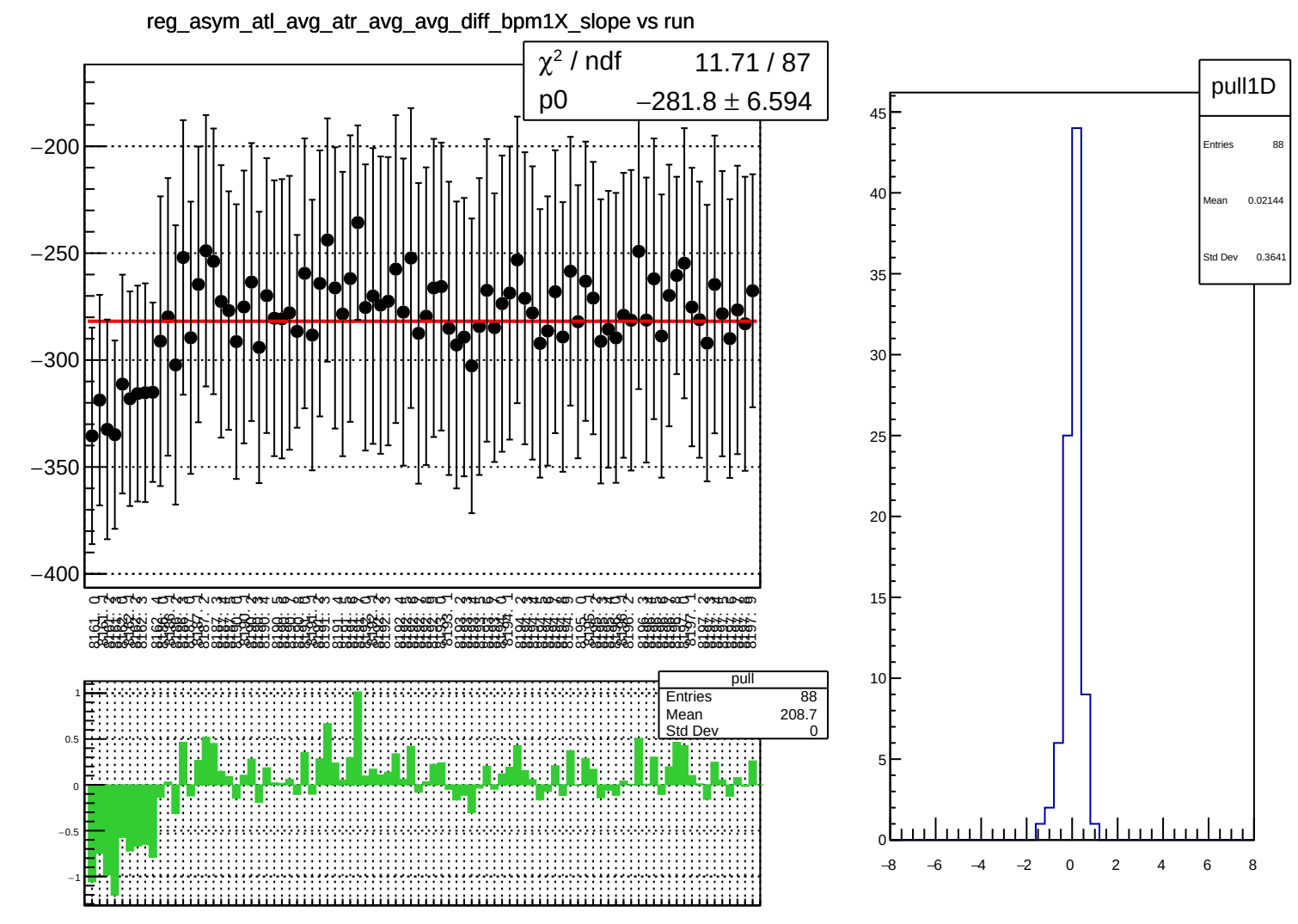

pull1D
Entries 88
Mean −0.002818
Std Dev 0.7164

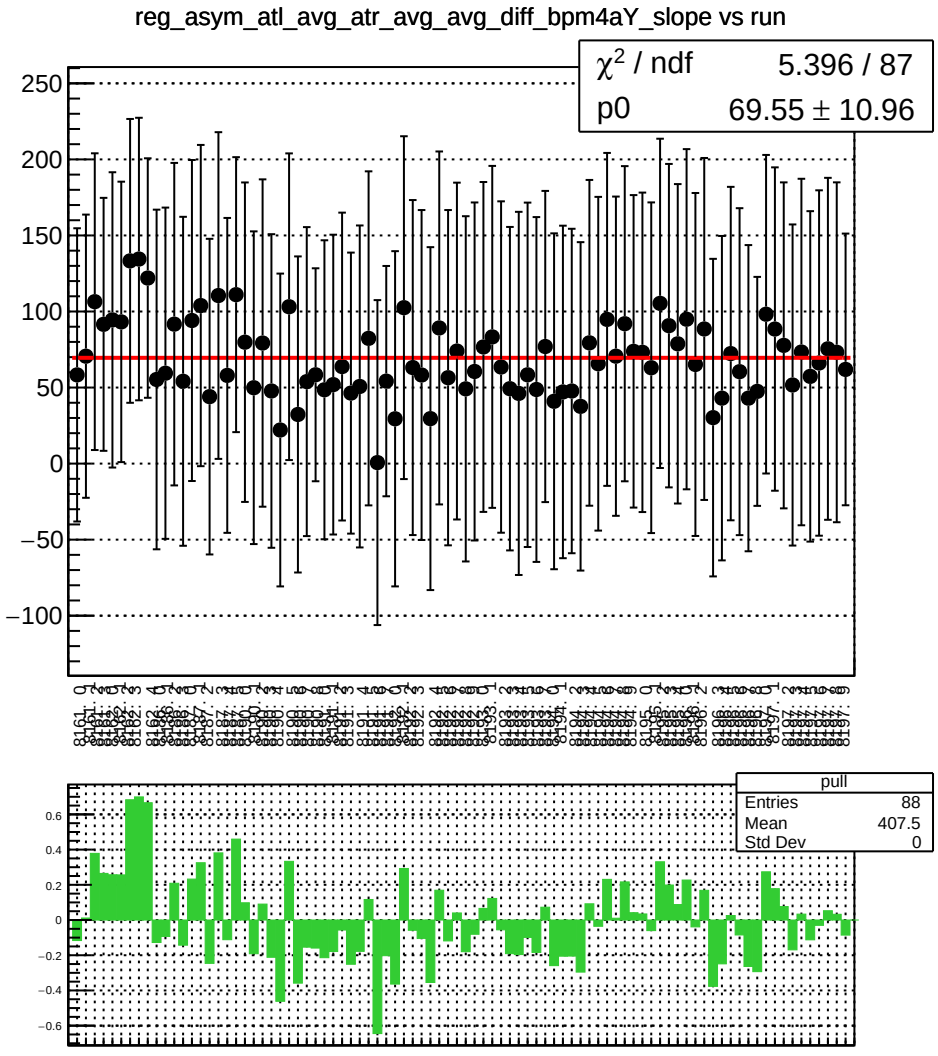

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.06 / 87
p0 57.51 ± 1.674
pull
Entries 88
Mean 169.6
Std Dev 0
pull1D
Entries 88
Mean 0.0008659
Std Dev 0.6913

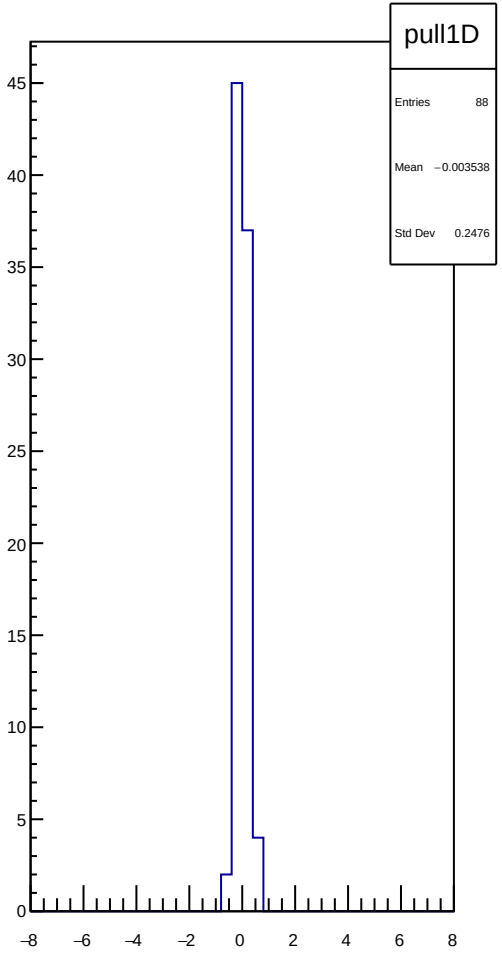

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.67 / 87
p0 −17.06 ± 2.995
pull
Entries 88
Mean 1011
Std Dev 0
pull1D
Entries 88
Mean 0.001761
Std Dev 0.7283

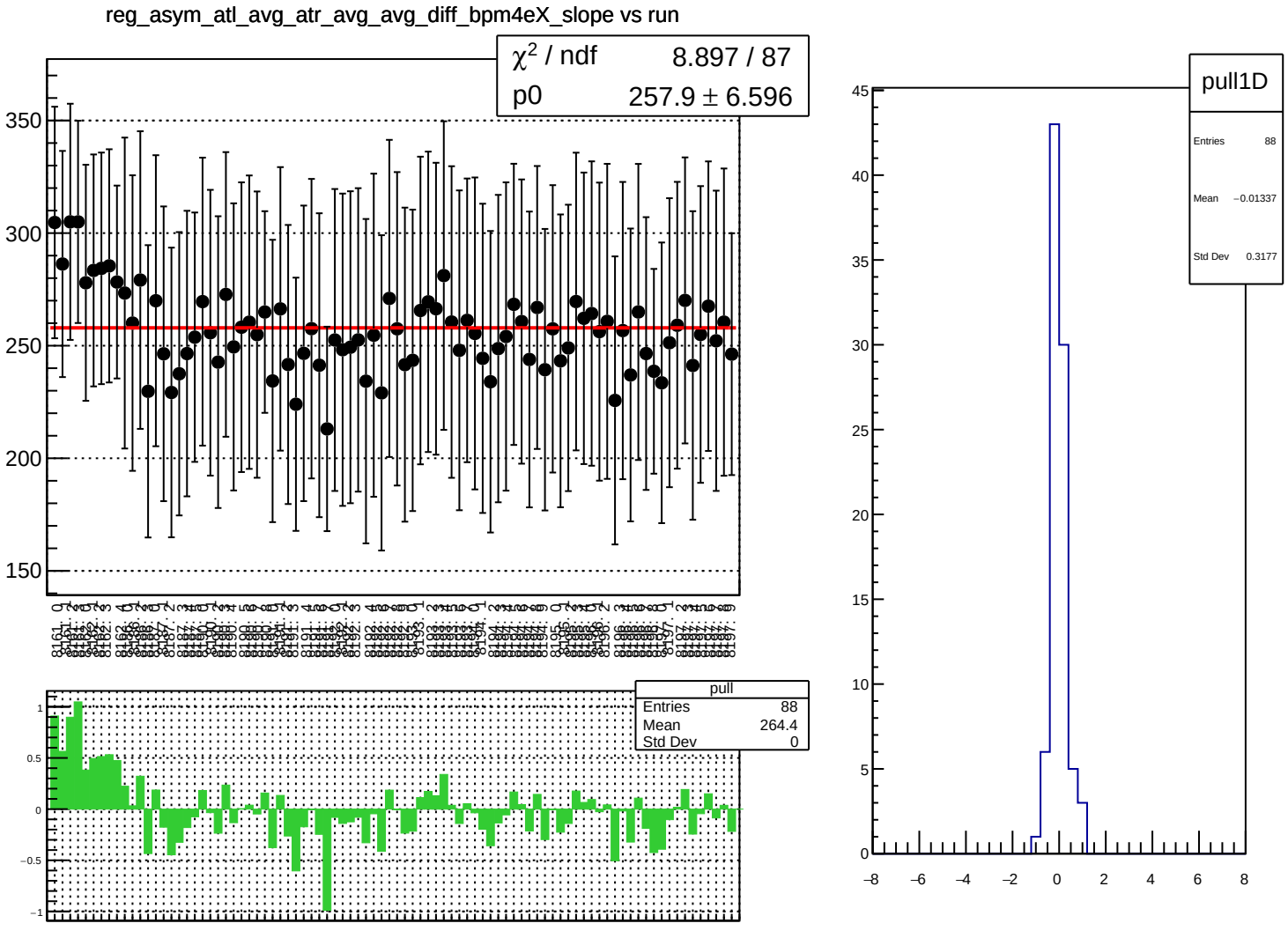

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 52.53 / 87
p0 3.659 ± 0.1353
pull
Entries 88
Mean 561.4
Std Dev 0

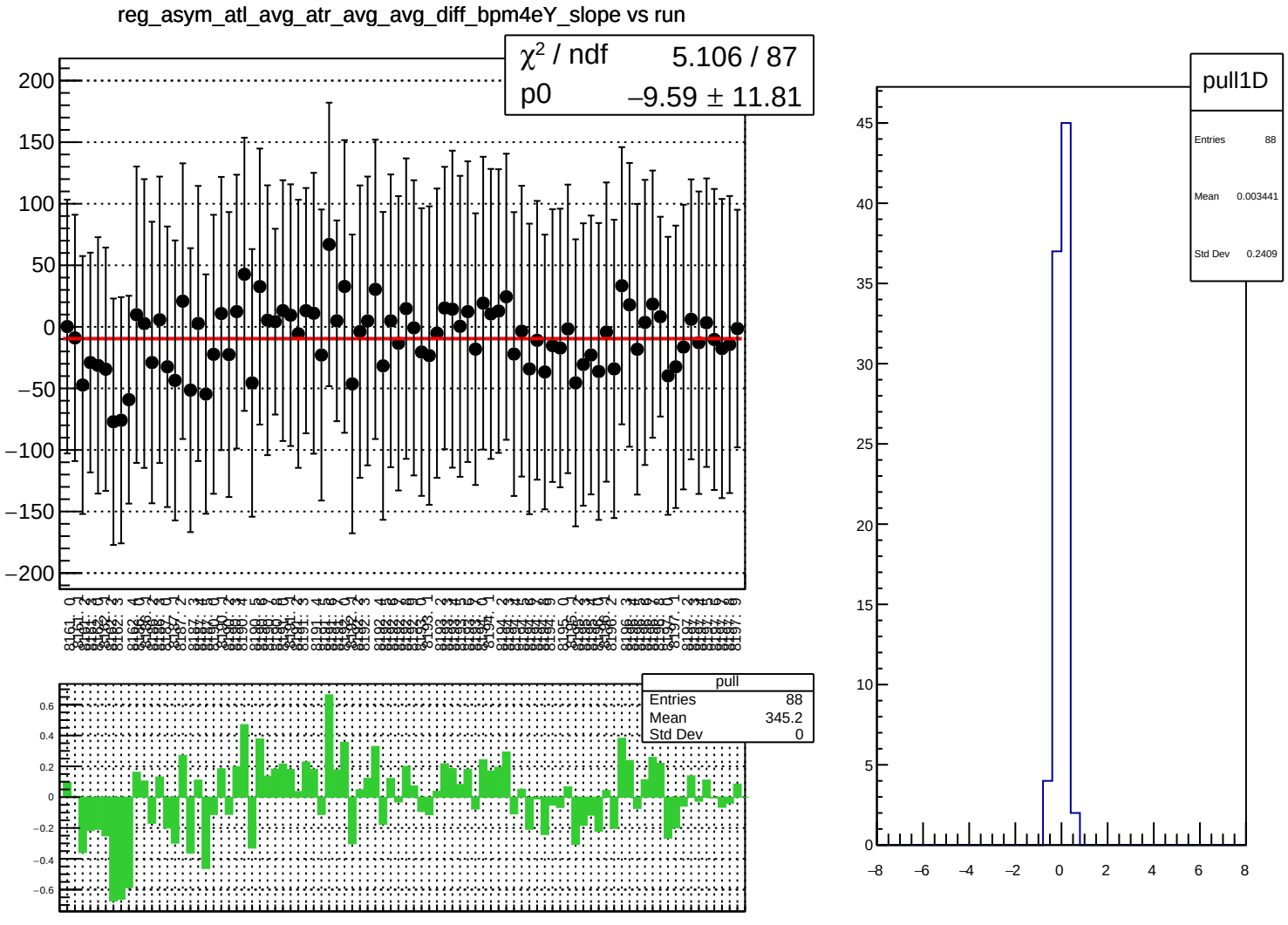

pull1D
Entries 88
Mean −0.008995
Std Dev 0.7726

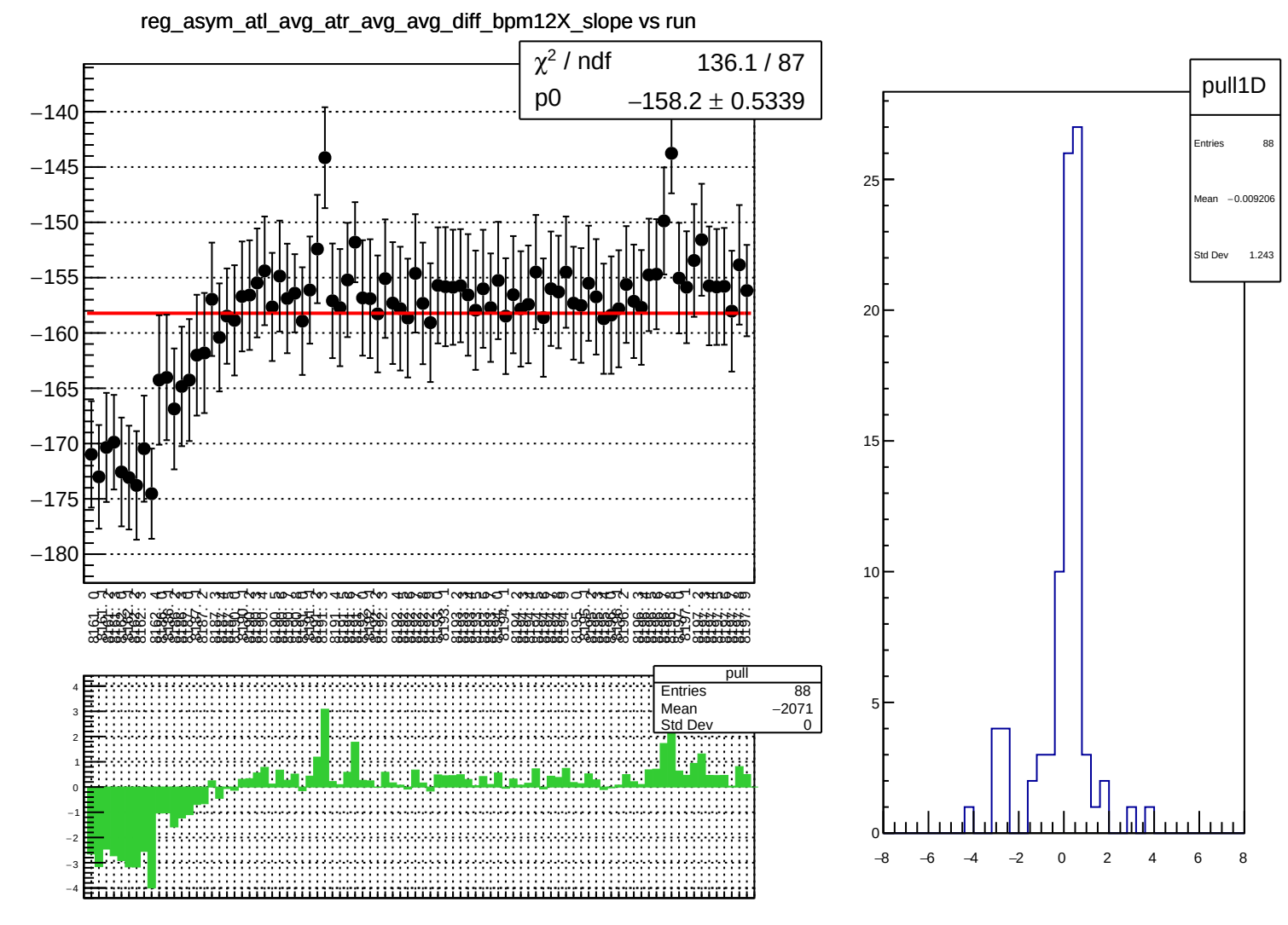

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.71 / 87
p0 −281.8 ± 6.594
−200
−250
−300
−350
−400
pull
Entries 88
Mean 208.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.02144
Std Dev 0.3641
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

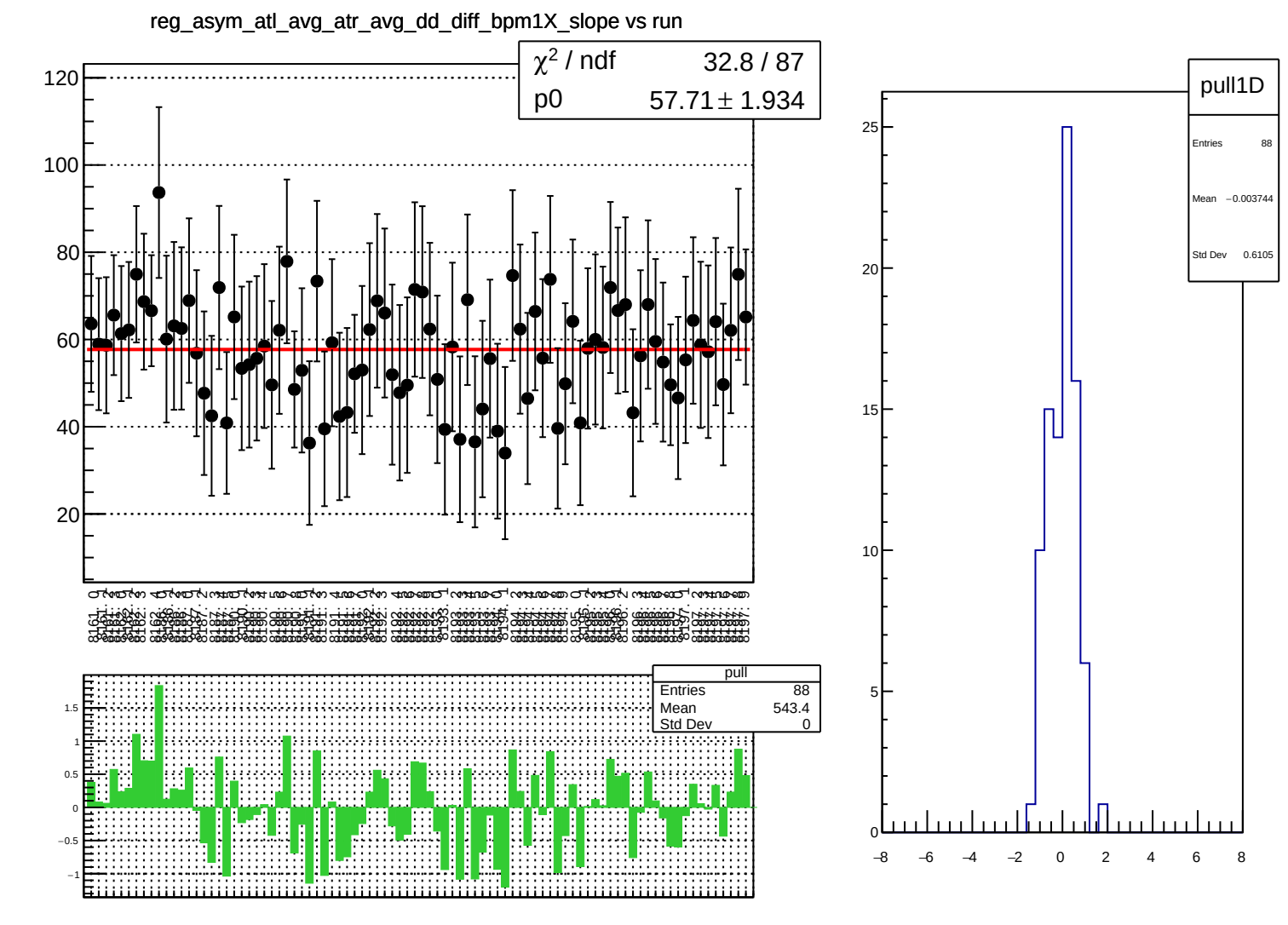

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.396 / 87
p0 69.55 ± 10.96
pull
Entries 88
Mean 407.5
Std Dev 0

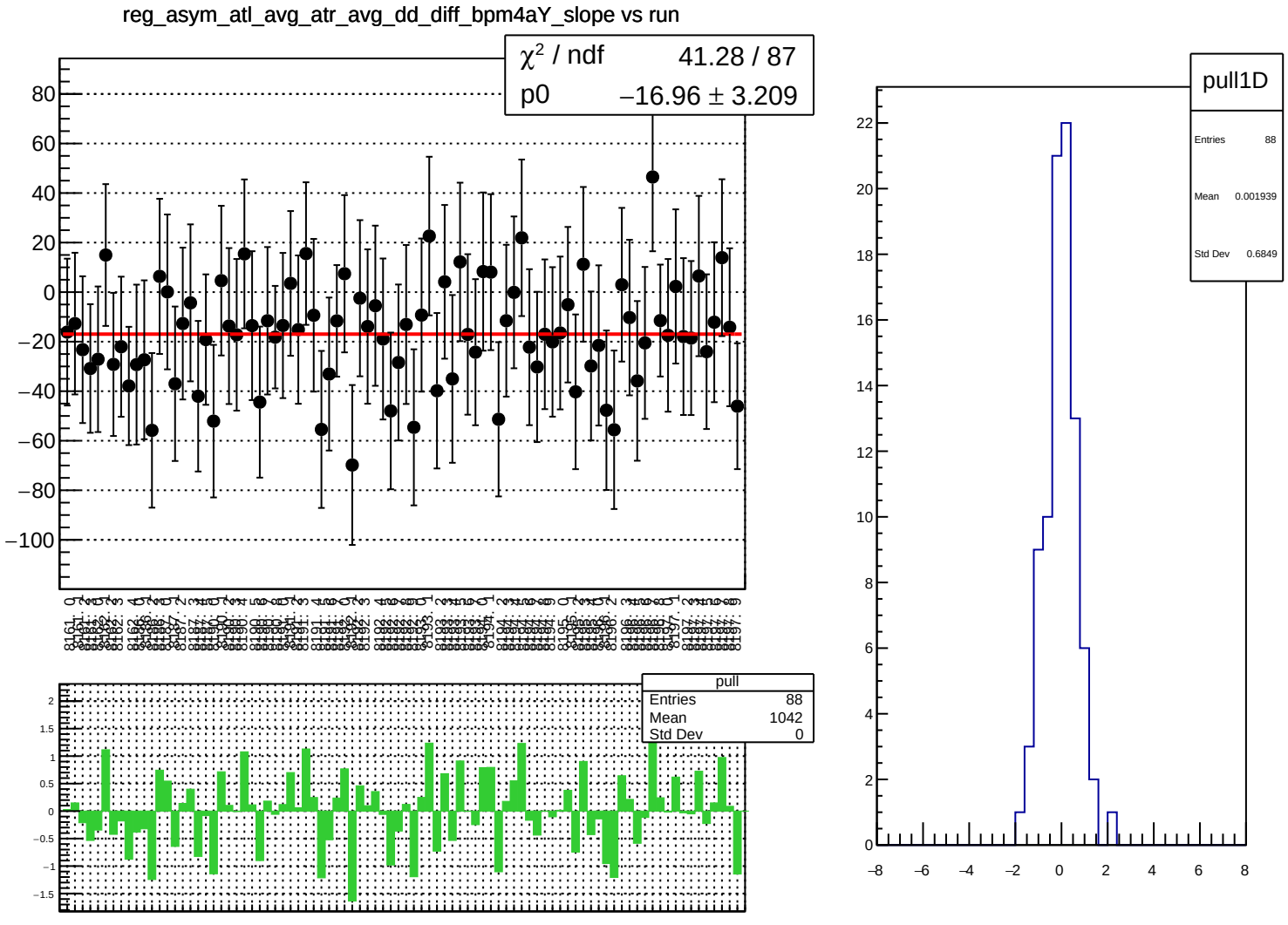

pull1D
Entries 88
Mean −0.003538
Std Dev 0.2476

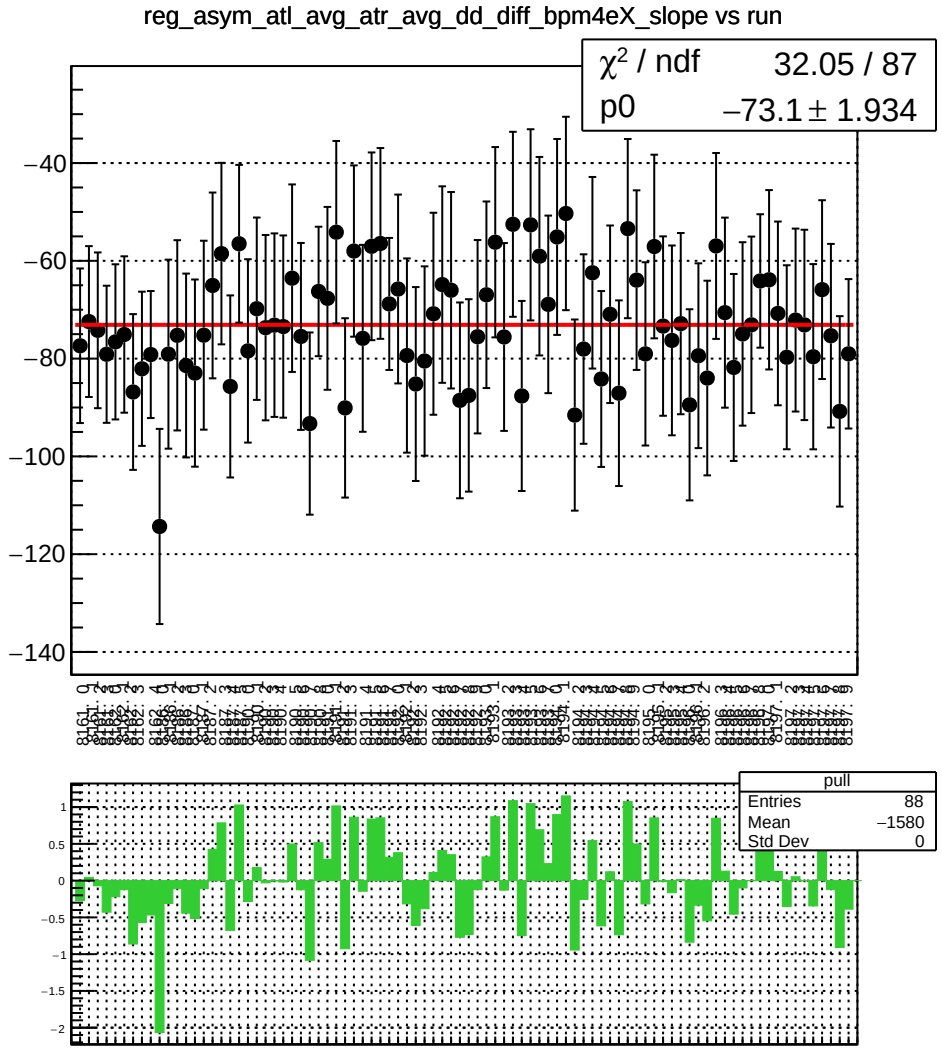

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.897 / 87
p0 257.9 ± 6.596
350
300
250
200
150
pull
Entries 88
Mean 264.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.01337
Std Dev 0.3177
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

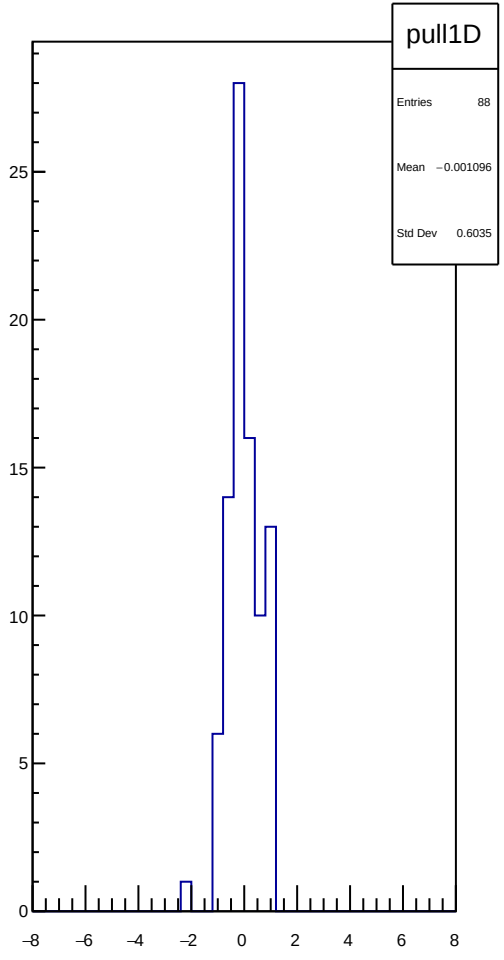

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.106 / 87
p0 −9.59 ± 11.81
pull
Entries 88
Mean 345.2
Std Dev 0
pull1D
Entries 88
Mean 0.003441
Std Dev 0.2409

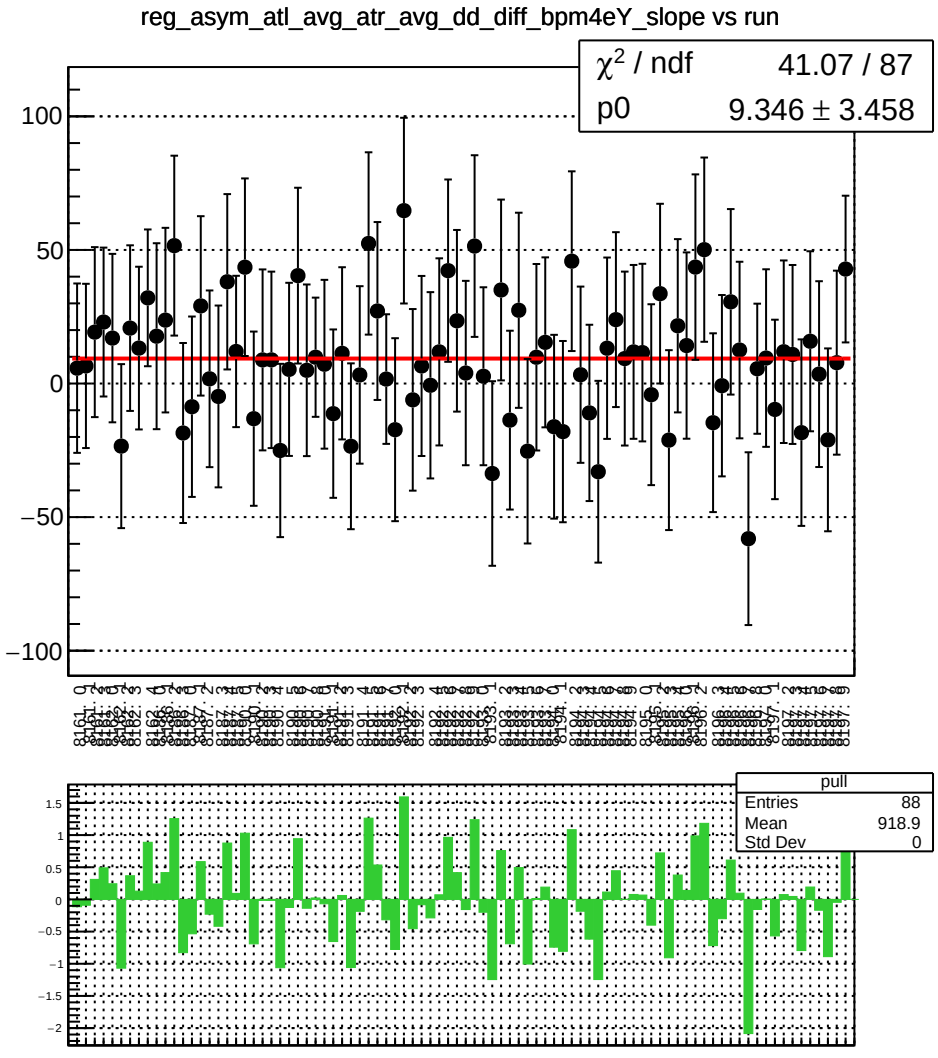

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 136.1 / 87
p0 −158.2 ± 0.5339
pull
Entries 88
Mean −2071
Std Dev 0
pull1D
Entries 88
Mean −0.009206
Std Dev 1.243

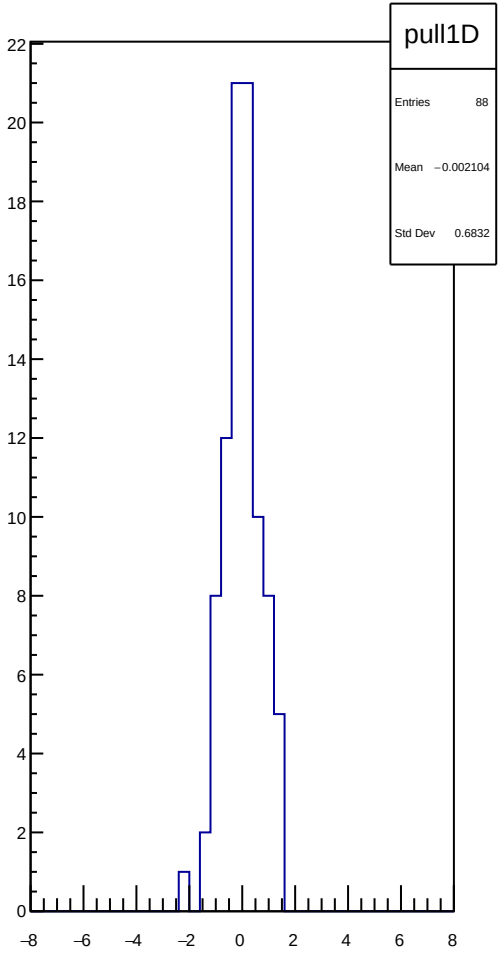

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 32.8 / 87
p0 57.71 ± 1.934
pull
Entries 88
Mean 543.4
Std Dev 0
pull1D
Entries 88
Mean −0.003744
Std Dev 0.6105

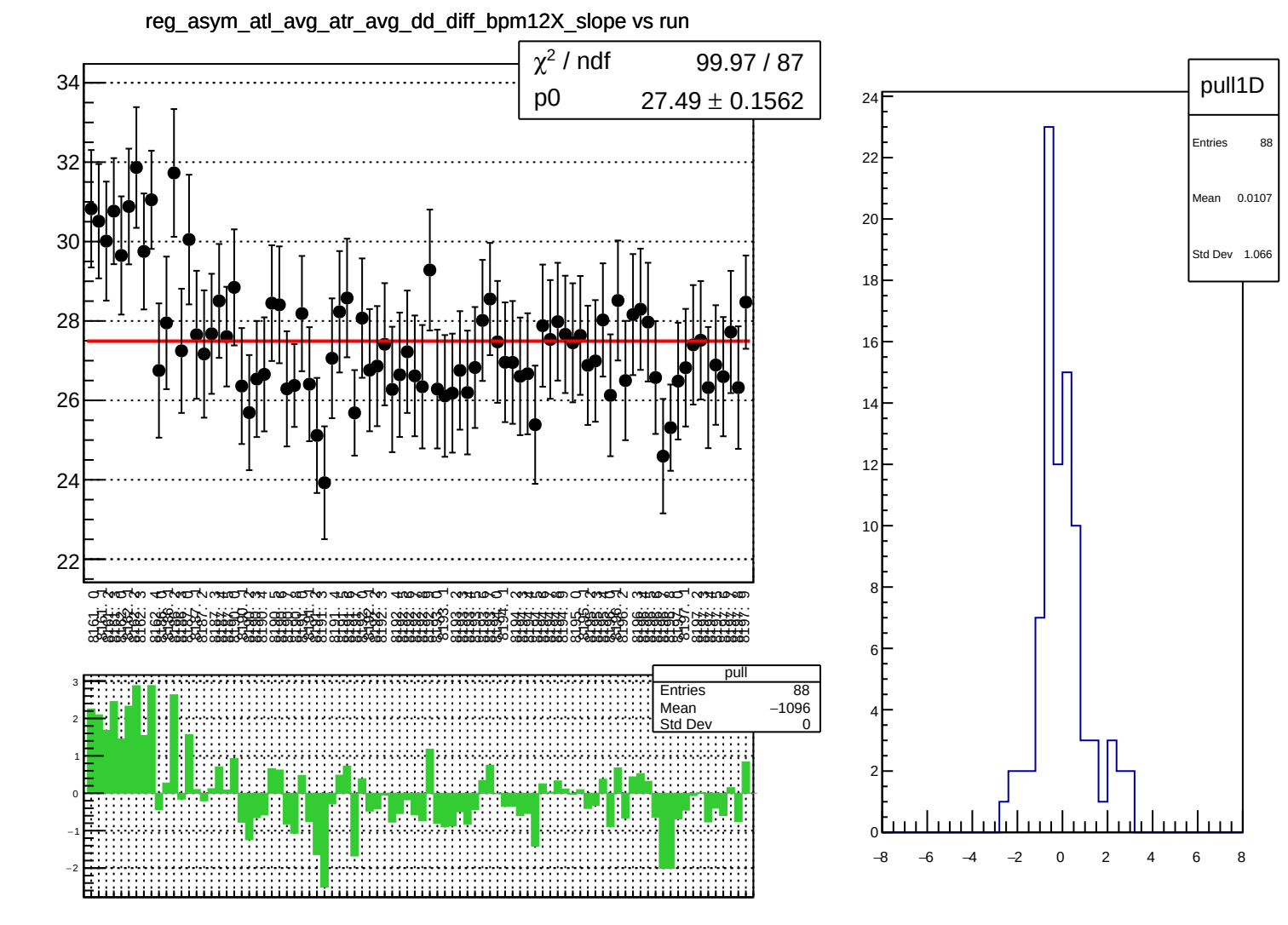

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.28 / 87
p0 −16.96 ± 3.209
pull
Entries 88
Mean 1042
Std Dev 0
pull1D
Entries 88
Mean 0.001939
Std Dev 0.6849

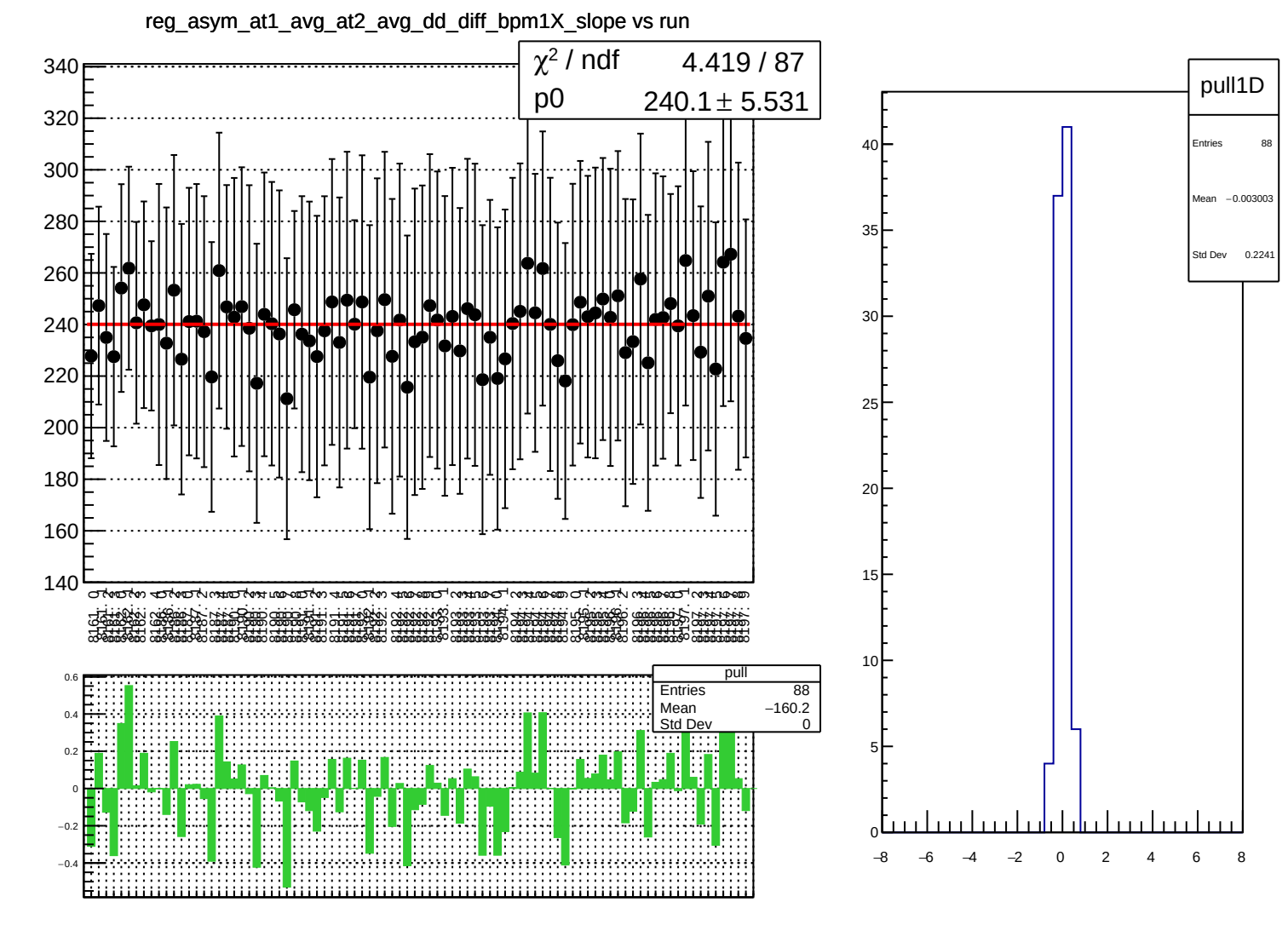

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.05 / 87
p0 −73.1 ± 1.934
−40
−60
−80
−100
−120
−140
pull
Entries 88
Mean −1580
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

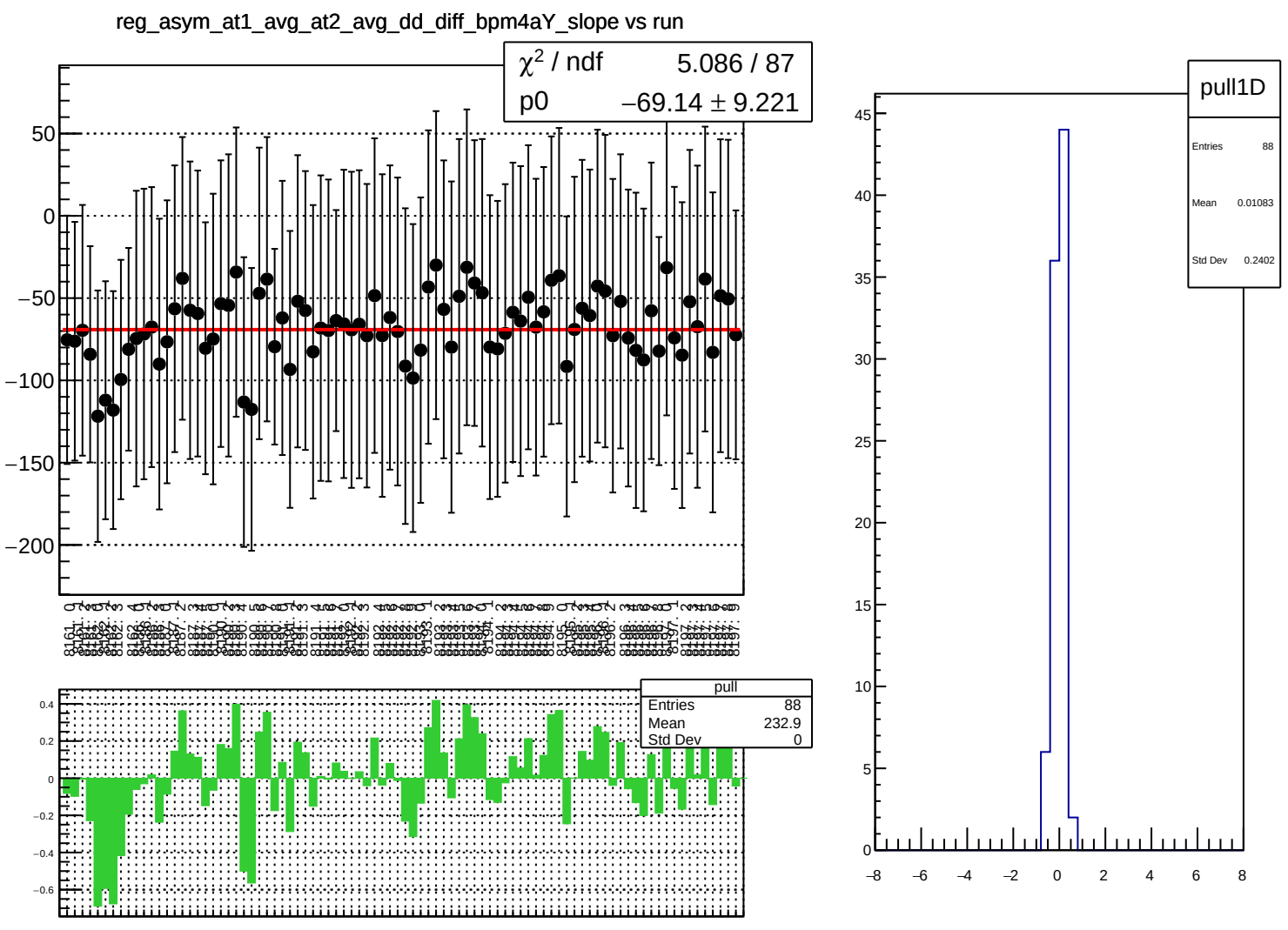

pull1D
Entries 88
Mean −0.001096
Std Dev 0.6035
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

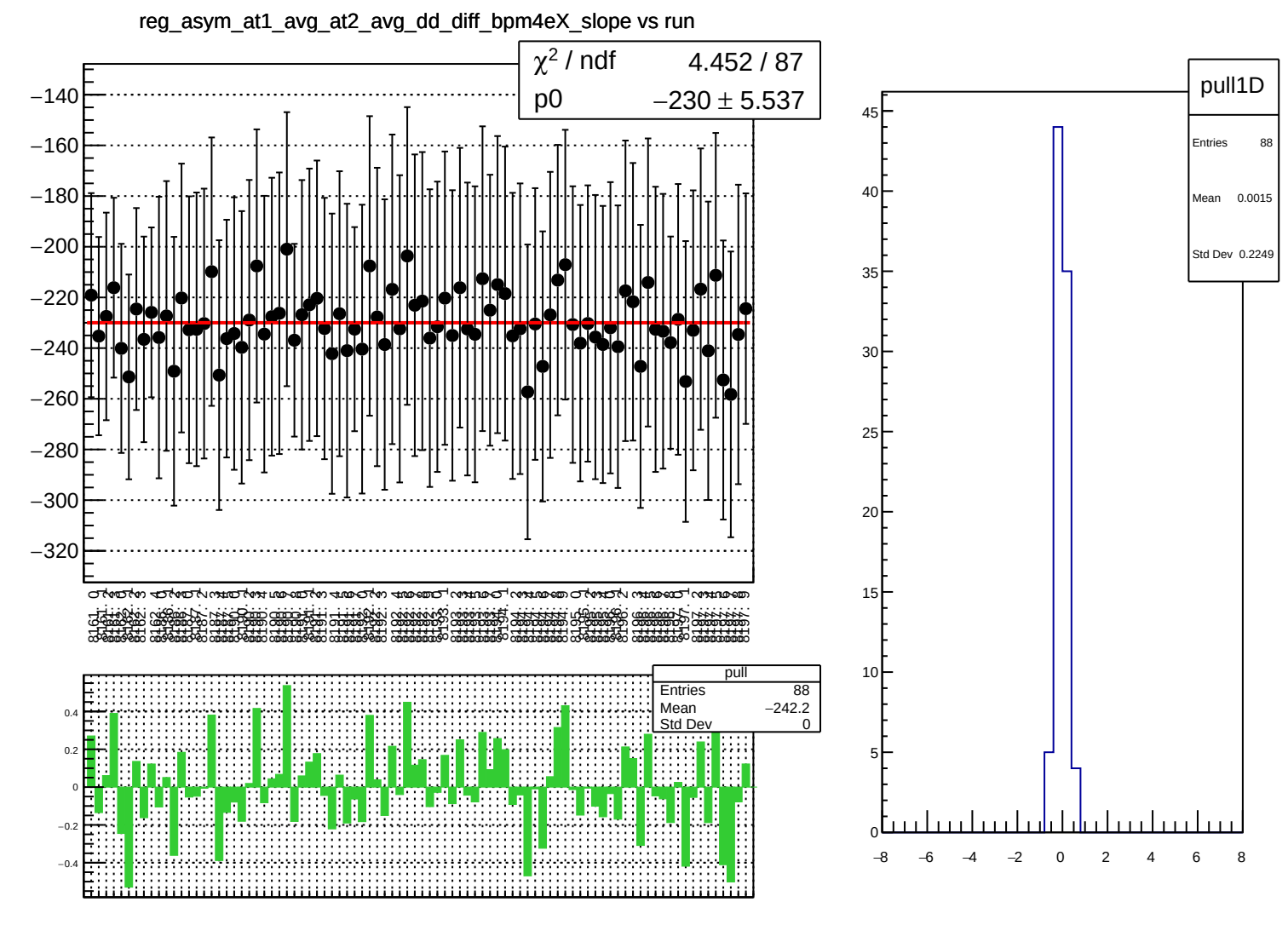

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.07 / 87
p0 9.346 ± 3.458
pull
Entries 88
Mean 918.9
Std Dev 0

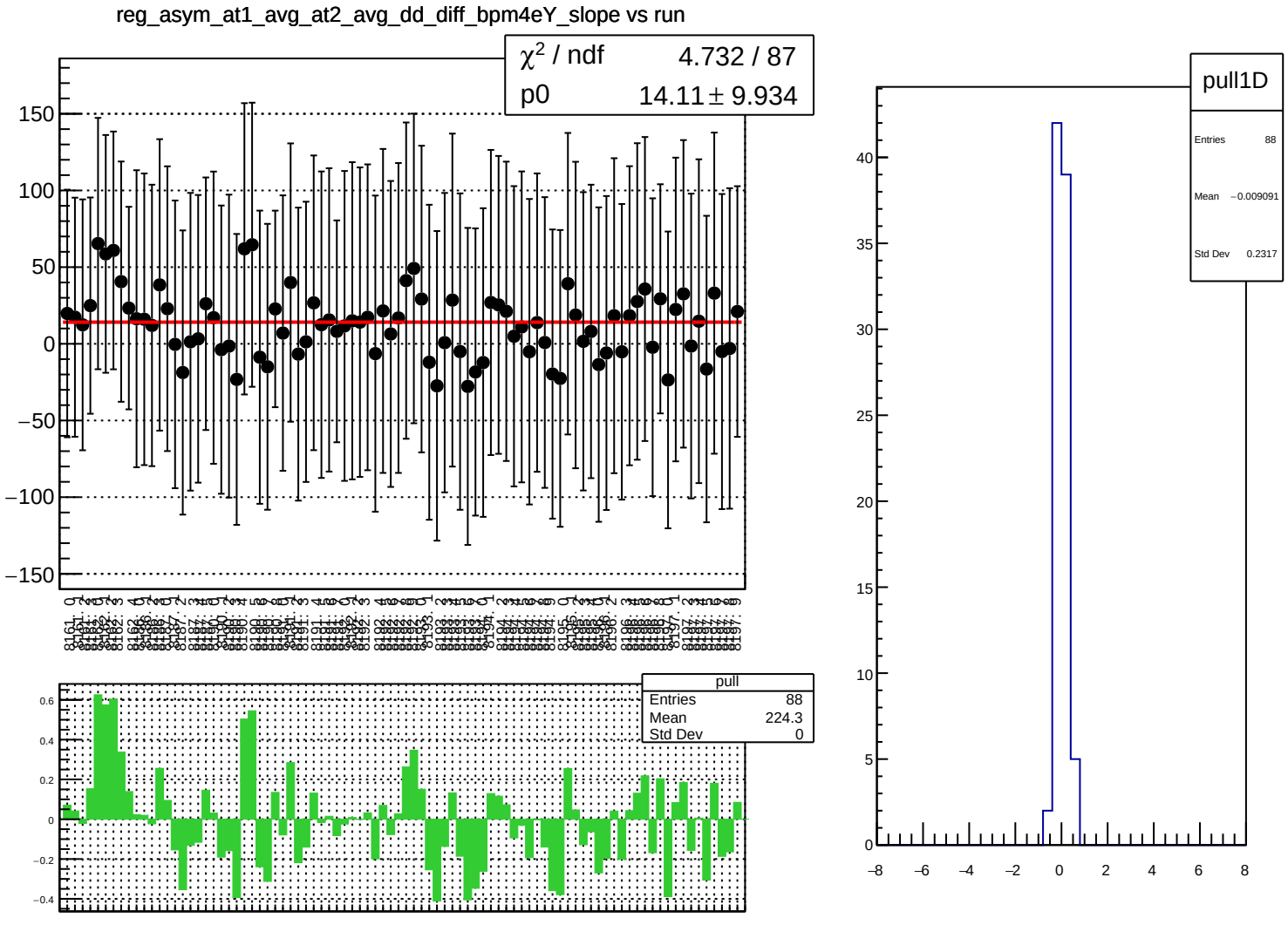

pull1D
Entries 88
Mean −0.002104
Std Dev 0.6832

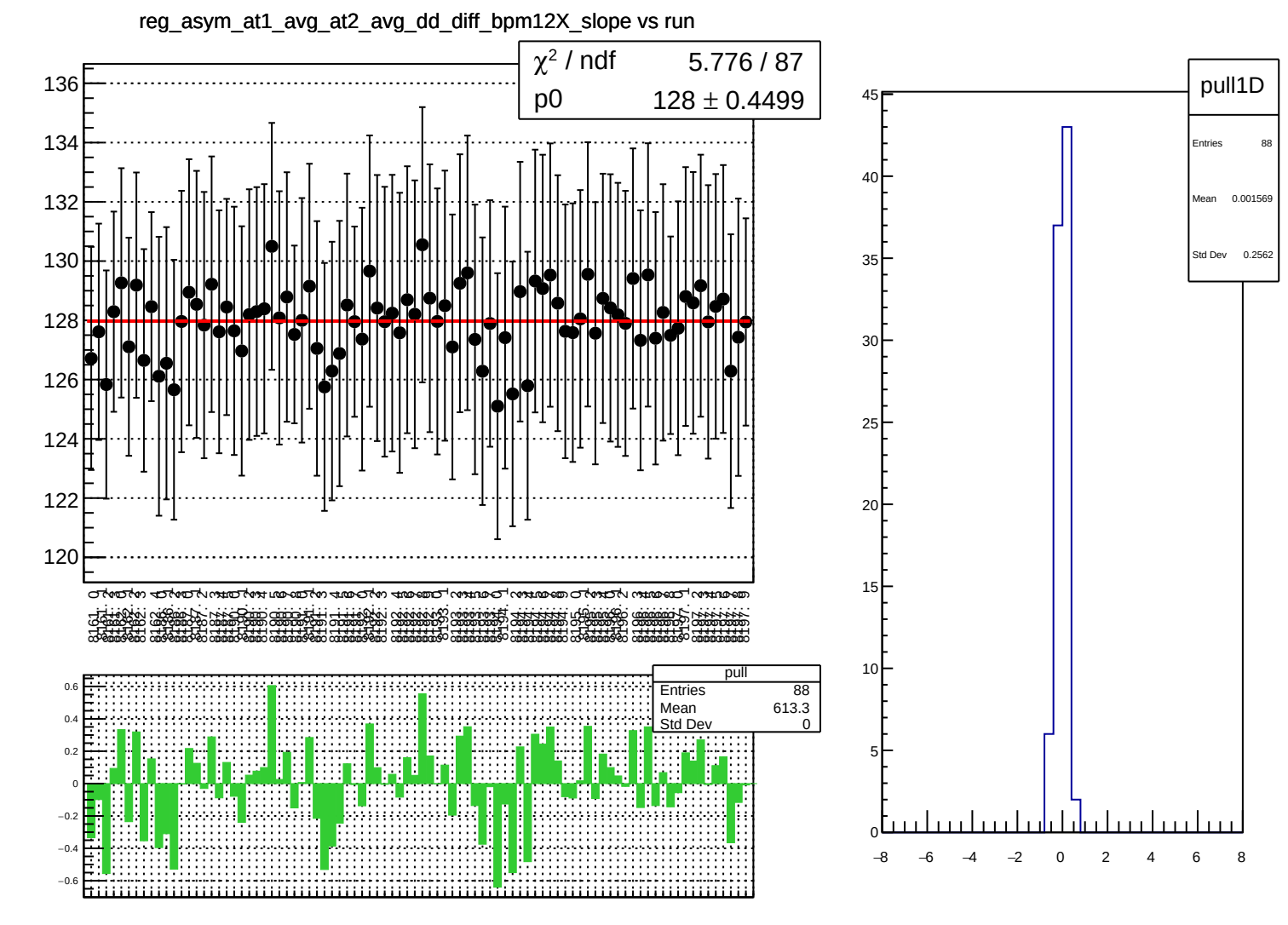

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 99.97 / 87
p0 27.49 ± 0.1562
pull
Entries 88
Mean −1096
Std Dev 0
pull1D
Entries 88
Mean 0.0107
Std Dev 1.066

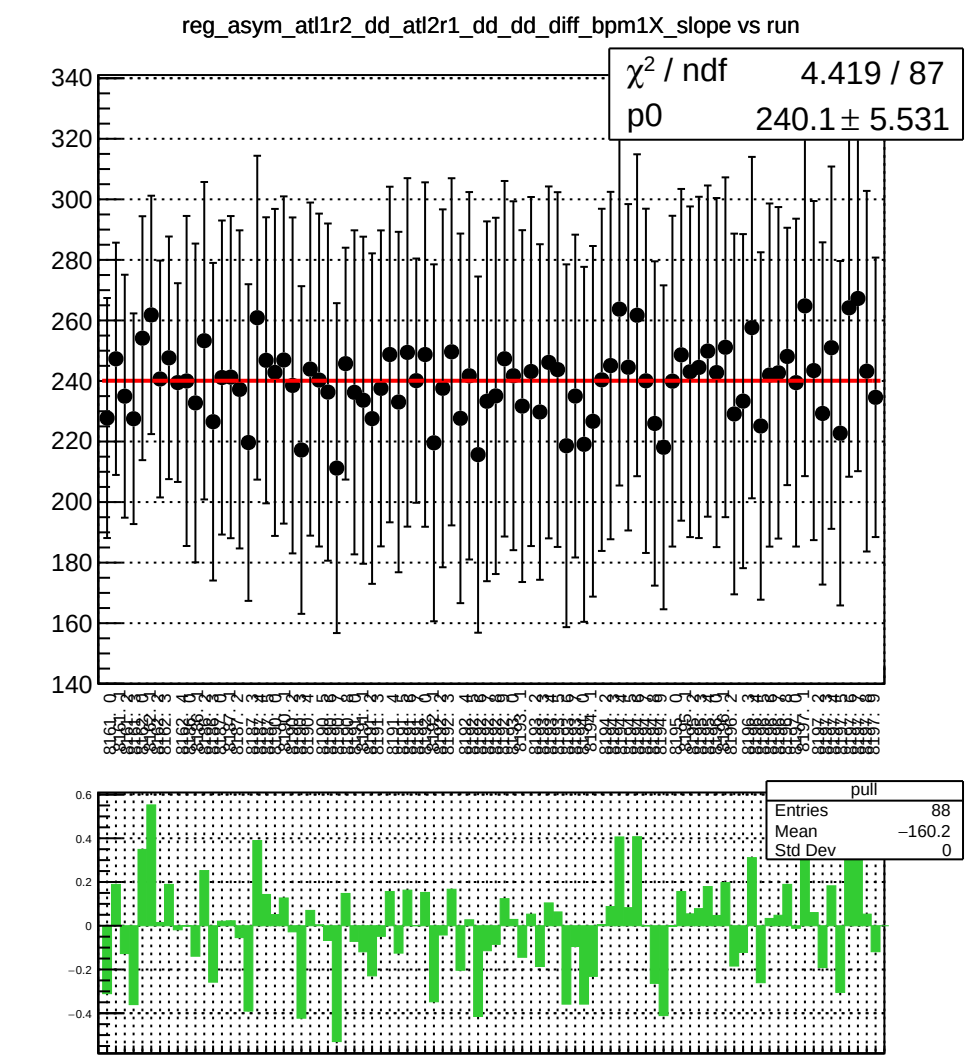

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.419 / 87
p0 240.1 ± 5.531
pull
Entries 88
Mean −160.2
Std Dev 0
pull1D
Entries 88
Mean −0.003003
Std Dev 0.2241

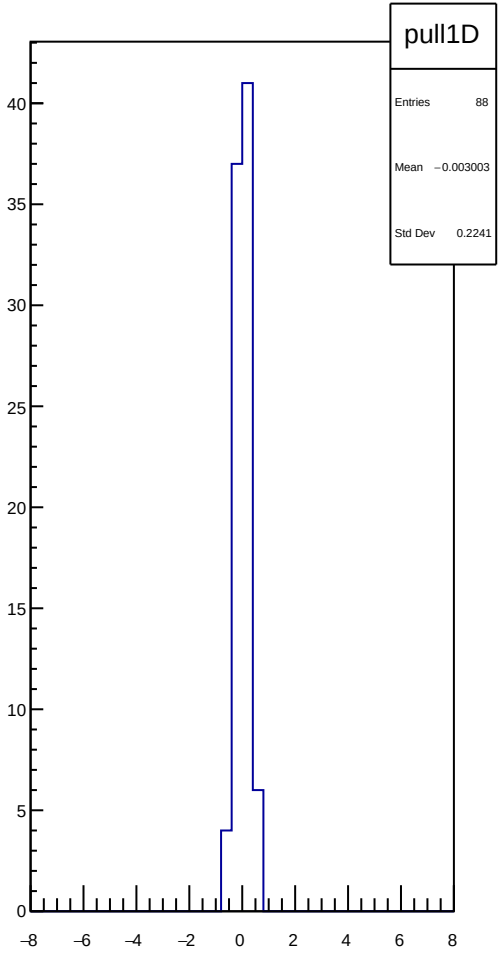

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.086 / 87
p0 −69.14 ± 9.221
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 232.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.01083
Std Dev 0.2402
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

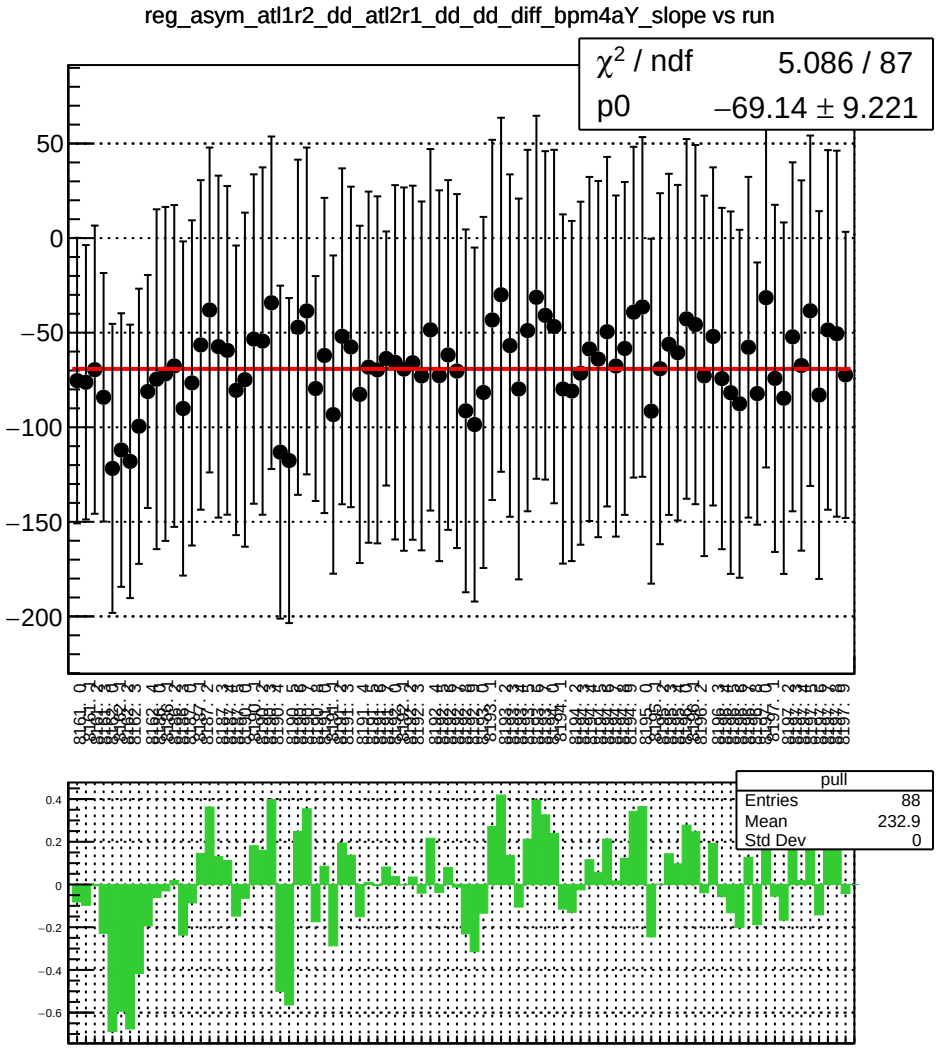

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.452 / 87
p0 −230 ± 5.537
−140
−160
−180
−200
−220
−240
−260
−280
−300
−320
pull
Entries 88
Mean −242.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.0015
Std Dev 0.2249
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

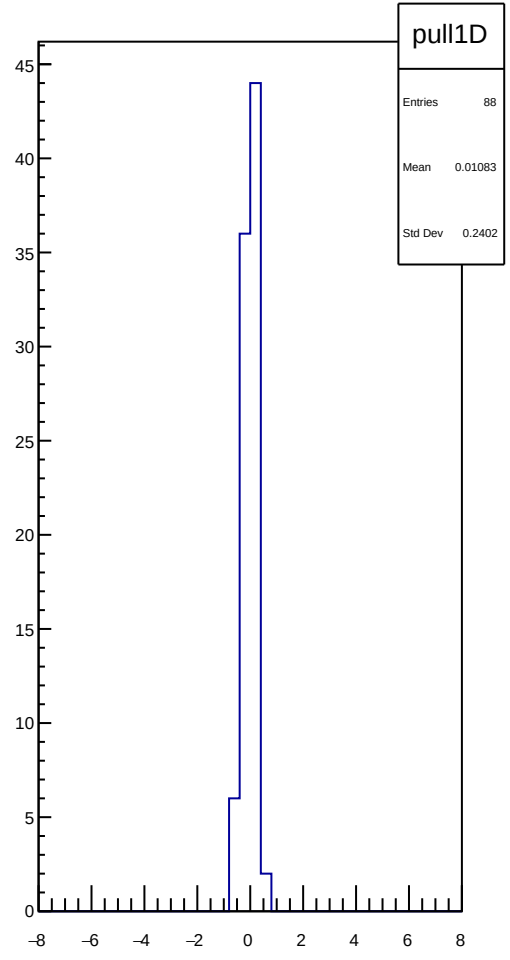

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.732 / 87
p0 14.11 ± 9.934
pull
Entries 88
Mean 224.3
Std Dev 0
pull1D
Entries 88
Mean −0.009091
Std Dev 0.2317

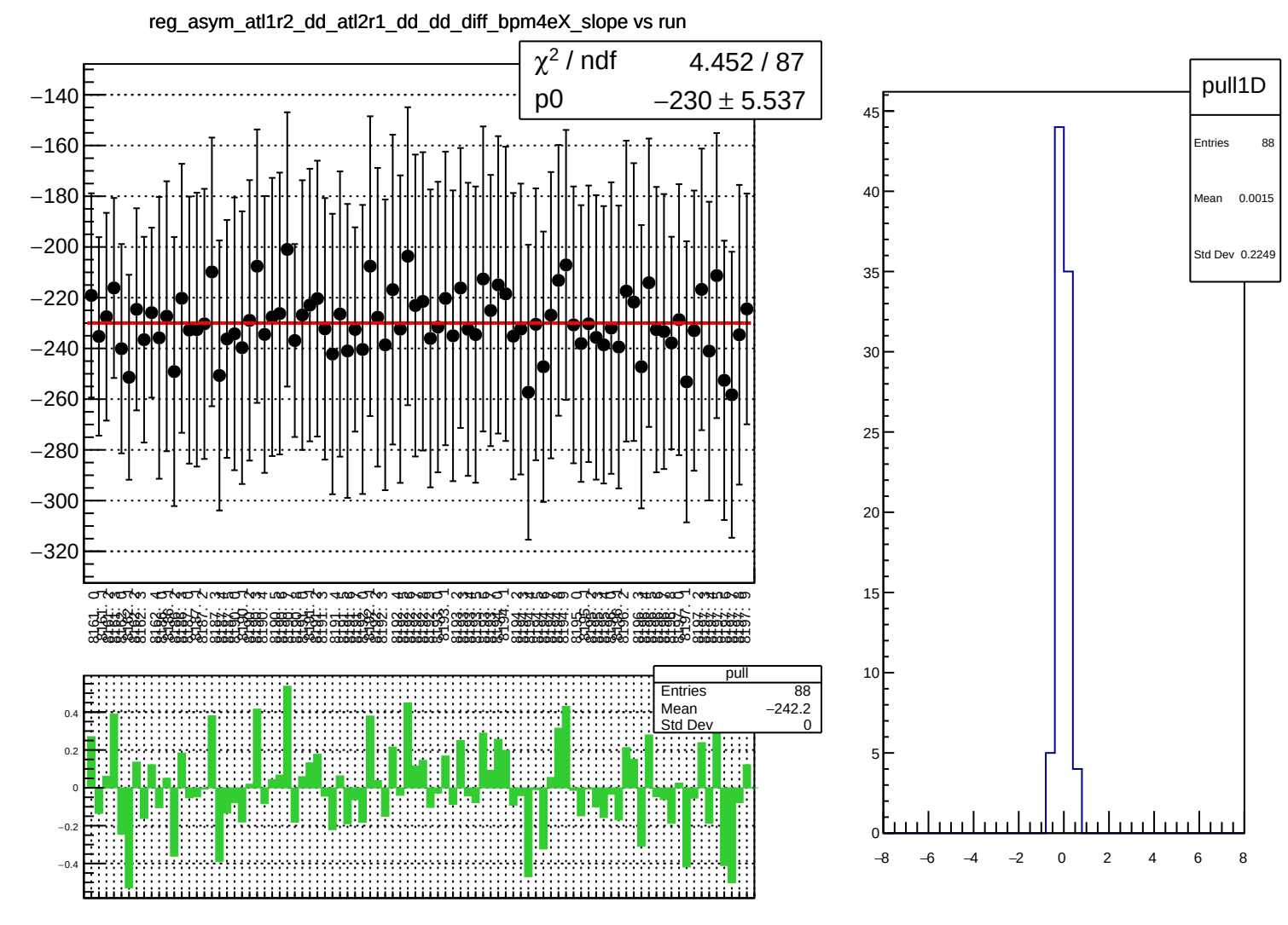

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5.776 / 87
p0 128 ± 0.4499
pull
Entries 88
Mean 613.3
Std Dev 0
pull1D
Entries 88
Mean 0.001569
Std Dev 0.2562

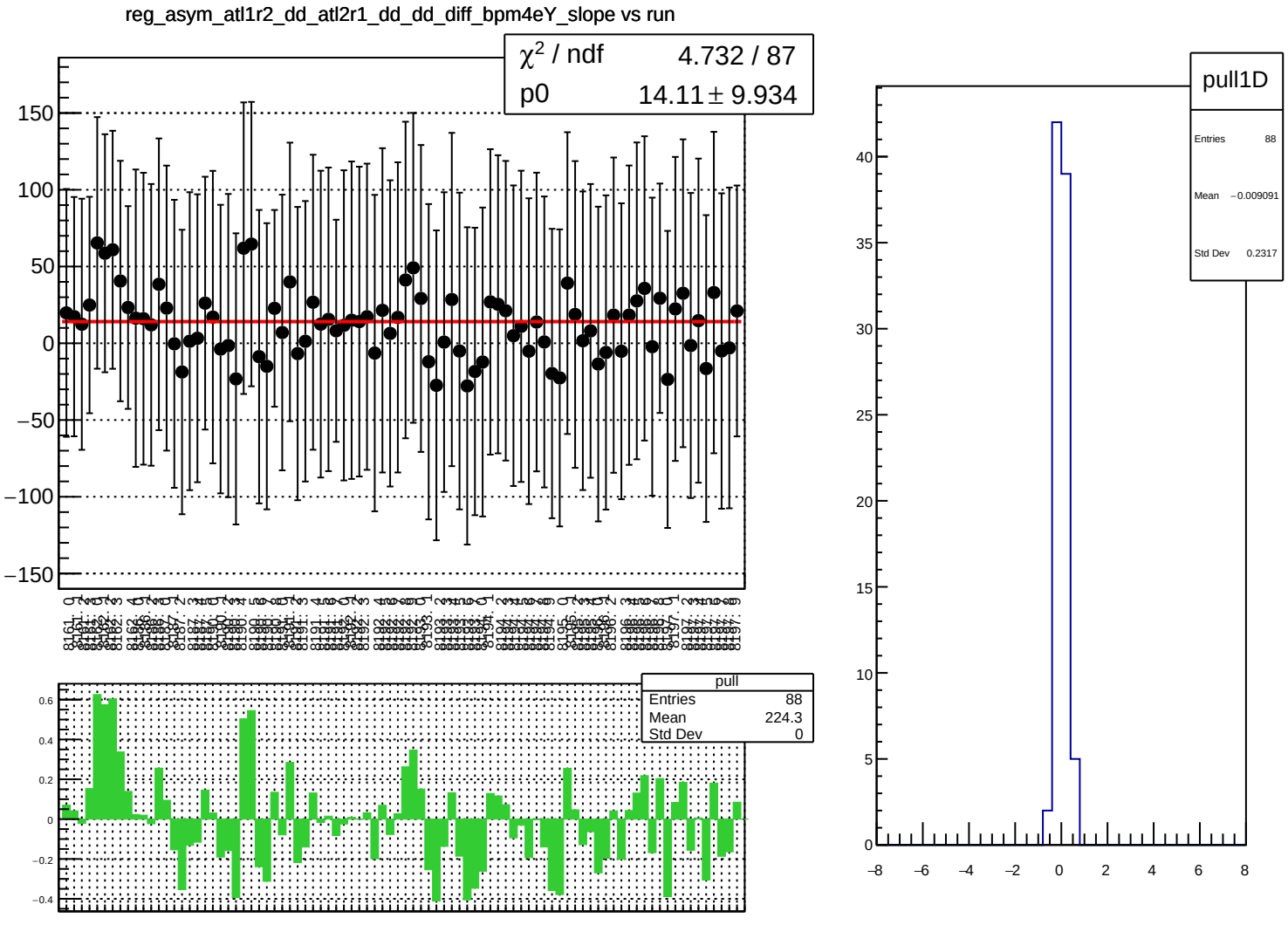

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 4.419 / 87
p0 240.1 ± 5.531
pull
Entries 88
Mean −160.2
Std Dev 0

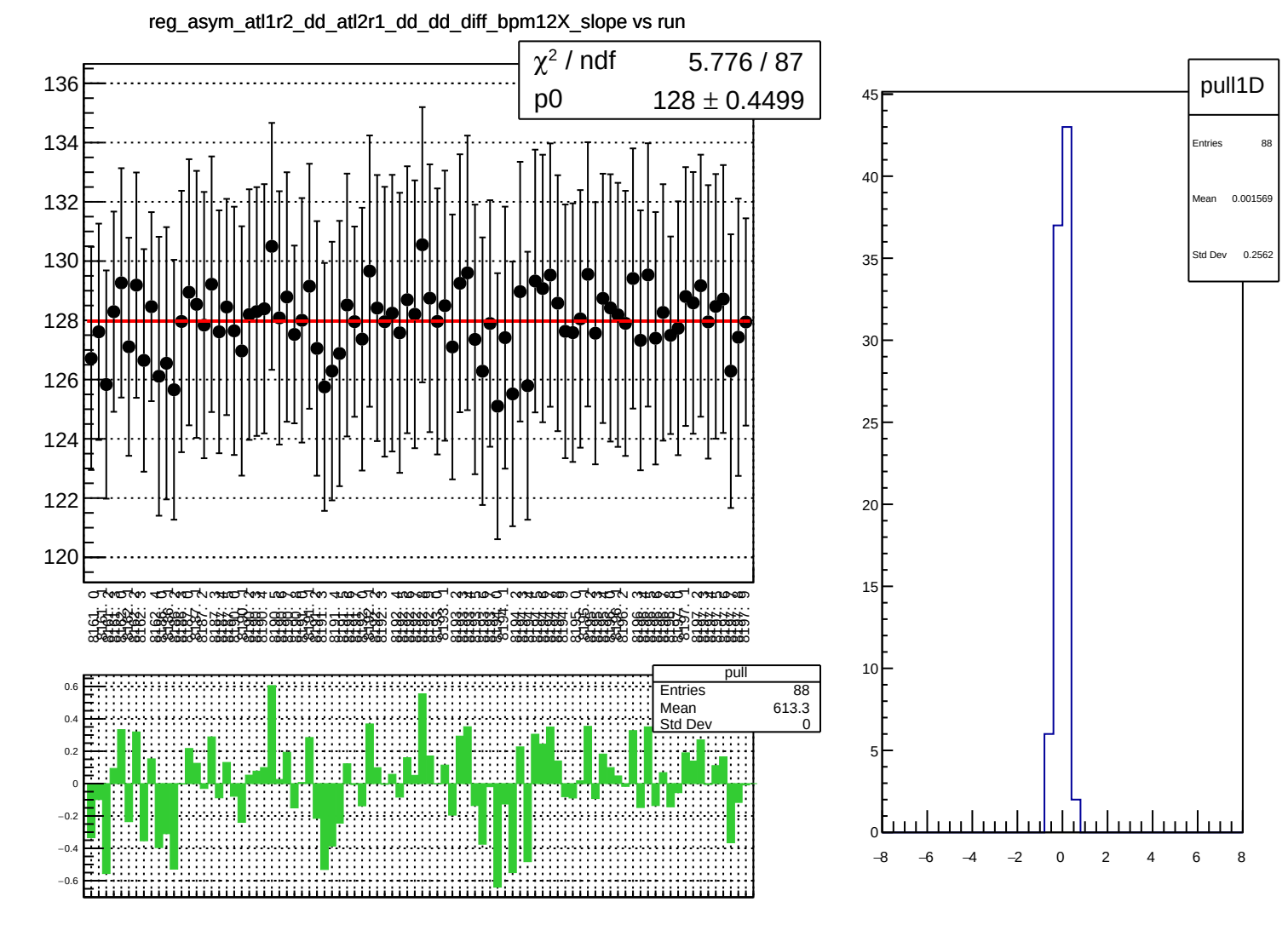

pull1D
Entries 88
Mean −0.003003
Std Dev 0.2241

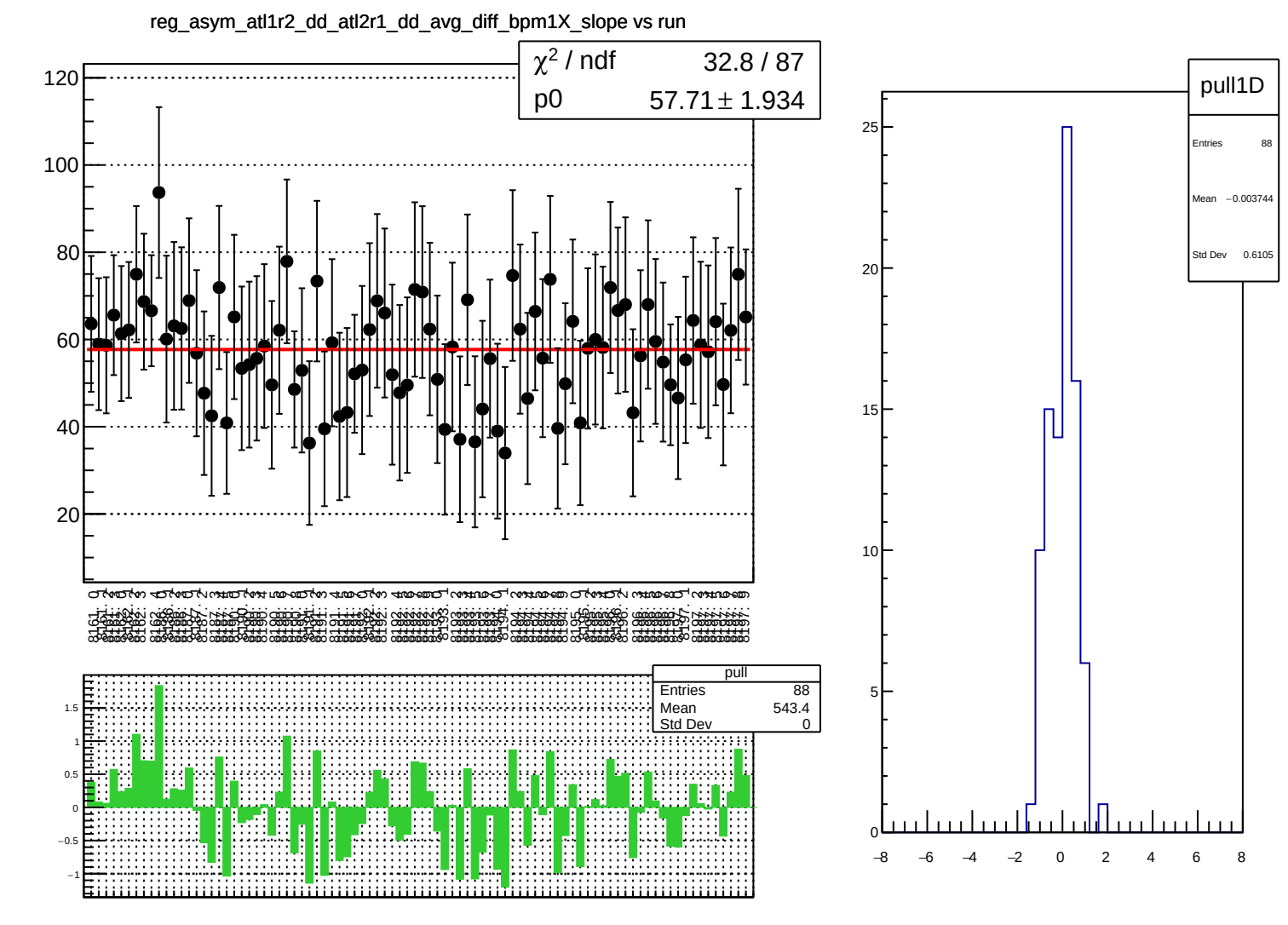

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.086 / 87
p0 −69.14 ± 9.221
pull
Entries 88
Mean 232.9
Std Dev 0

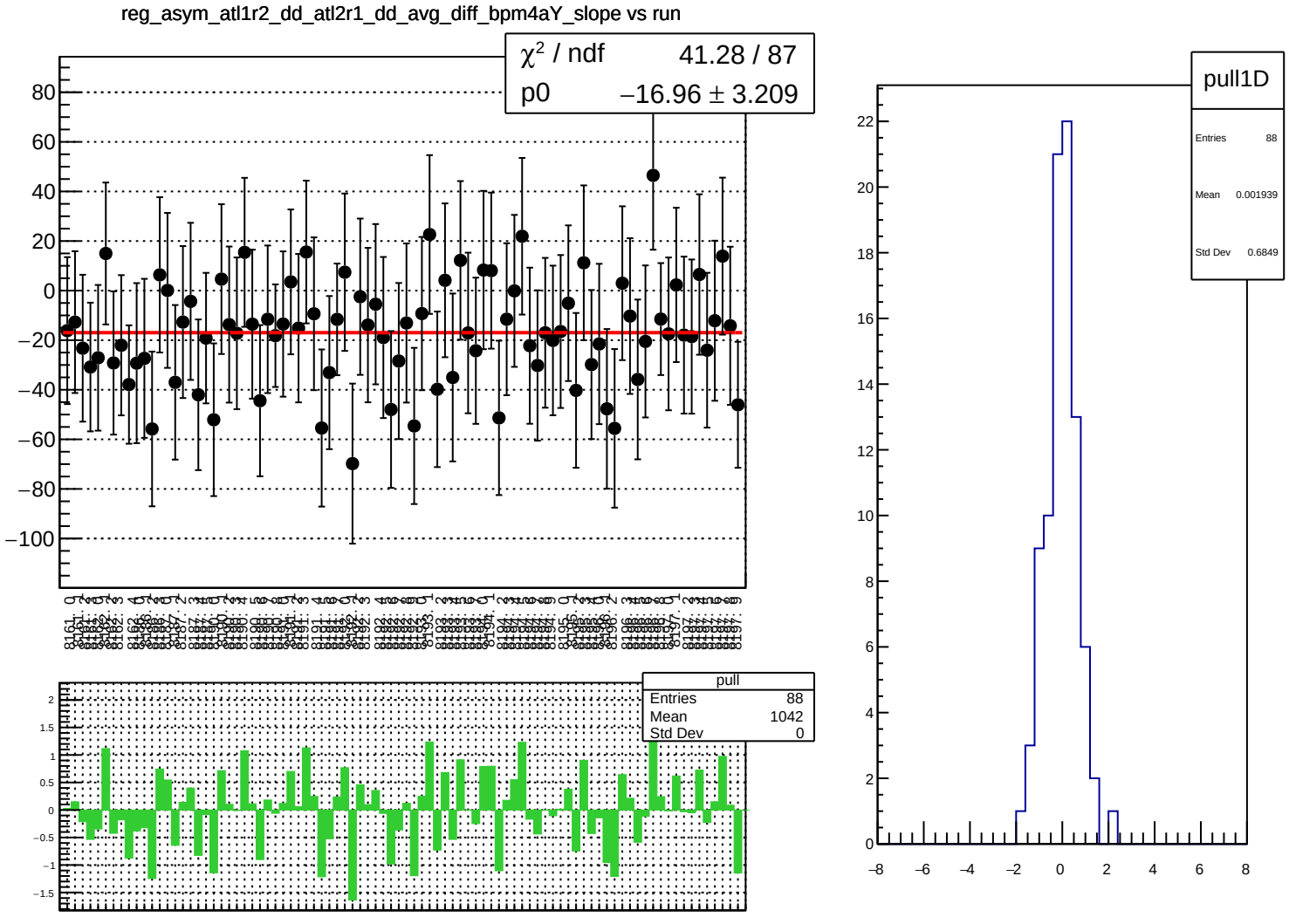

pull1D
Entries 88
Mean 0.01083
Std Dev 0.2402

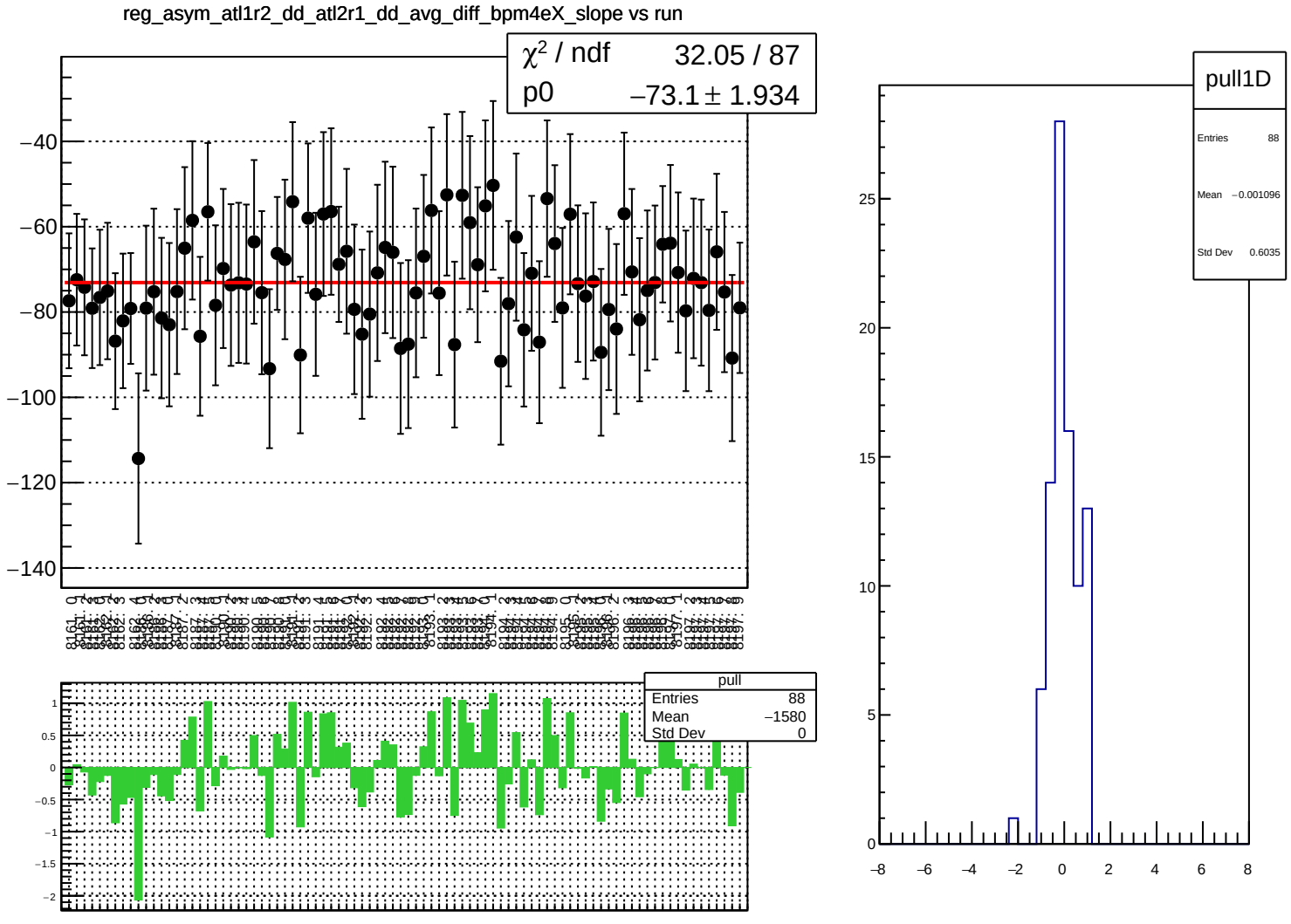

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.452 / 87
p0 −230 ± 5.537
−140
−160
−180
−200
−220
−240
−260
−280
−300
−320
pull
Entries 88
Mean −242.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.0015
Std Dev 0.2249
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

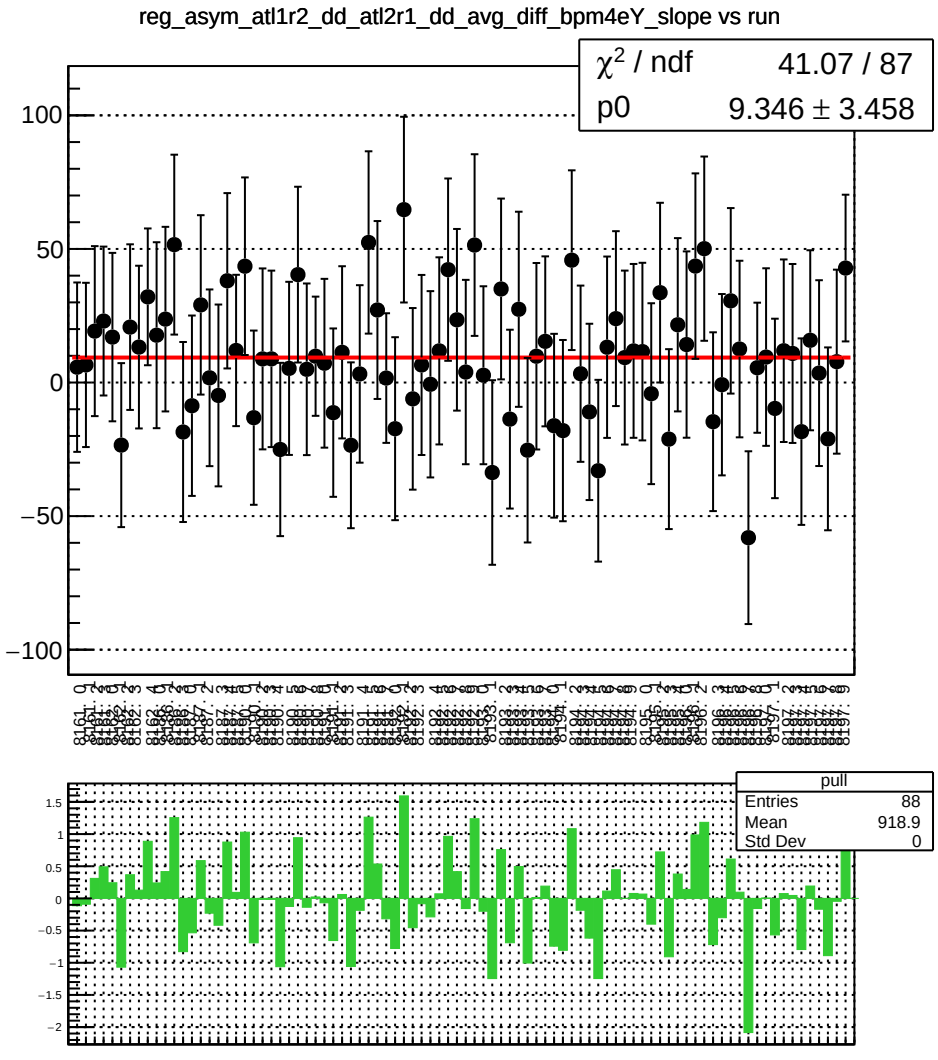

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.732 / 87
p0 14.11 ± 9.934
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 224.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.009091
Std Dev 0.2317
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

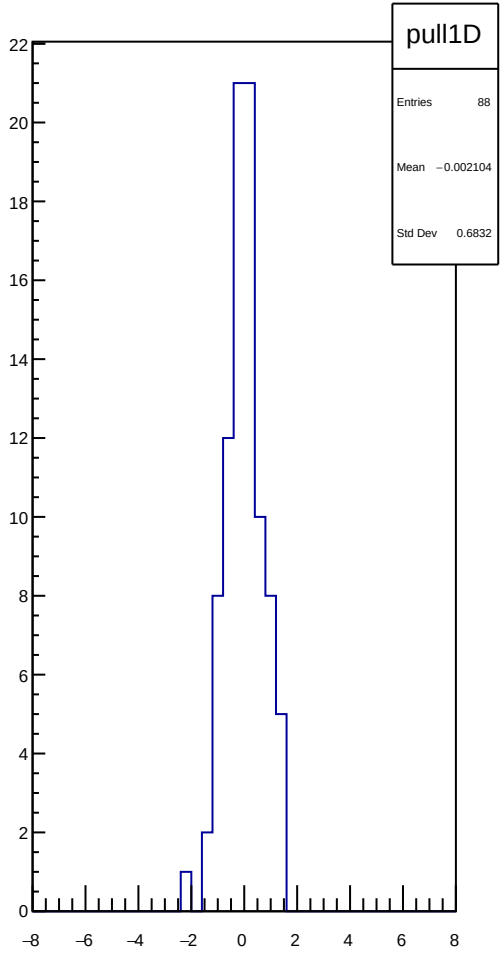

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 5.776 / 87
p0 128 ± 0.4499
pull
Entries 88
Mean 613.3
Std Dev 0
pull1D
Entries 88
Mean 0.001569
Std Dev 0.2562

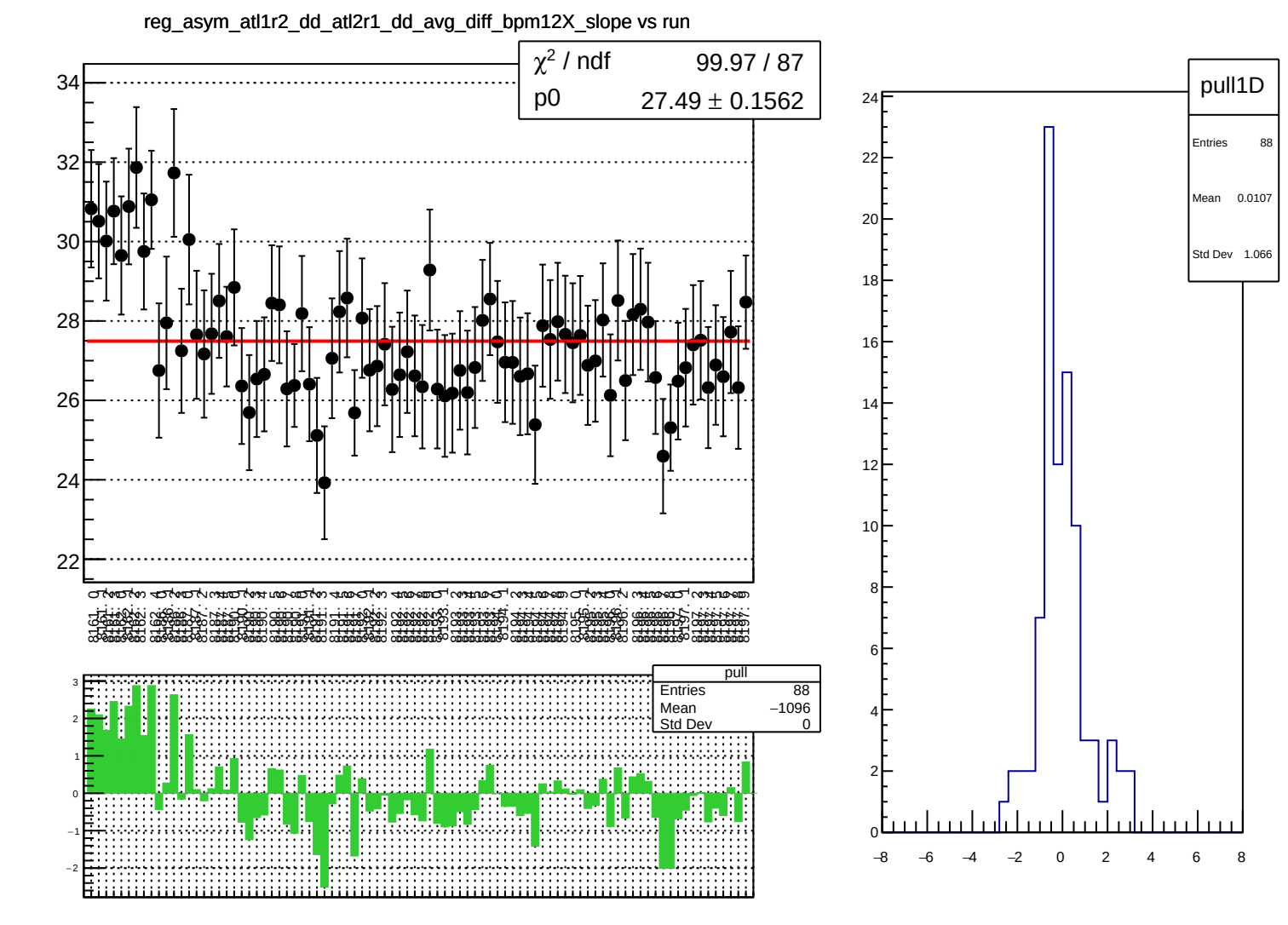

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 32.8 / 87
p0 57.71 ± 1.934
pull
Entries 88
Mean 543.4
Std Dev 0
pull1D
Entries 88
Mean −0.003744
Std Dev 0.6105

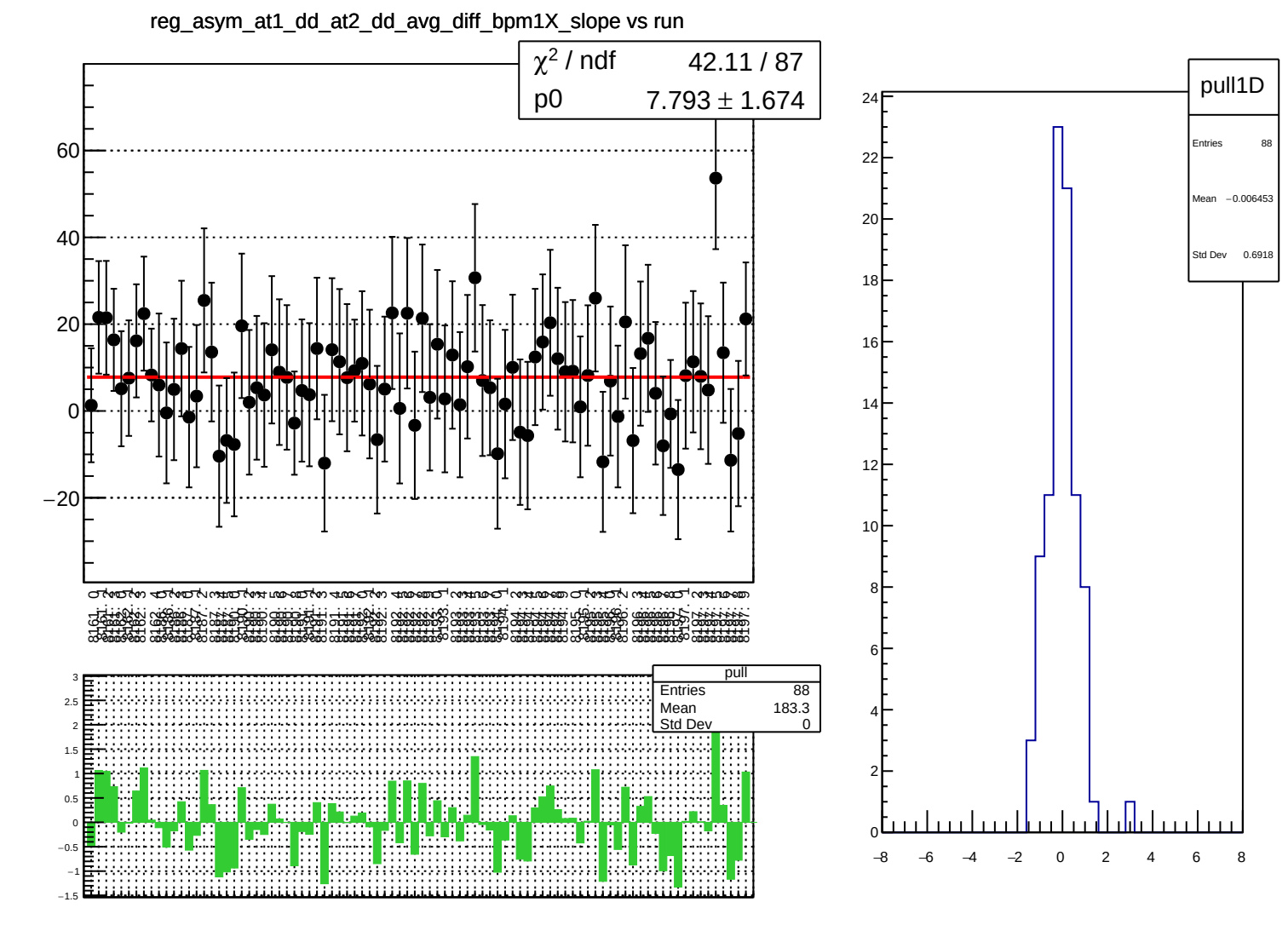

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.28 / 87
p0 −16.96 ± 3.209
pull
Entries 88
Mean 1042
Std Dev 0
pull1D
Entries 88
Mean 0.001939
Std Dev 0.6849

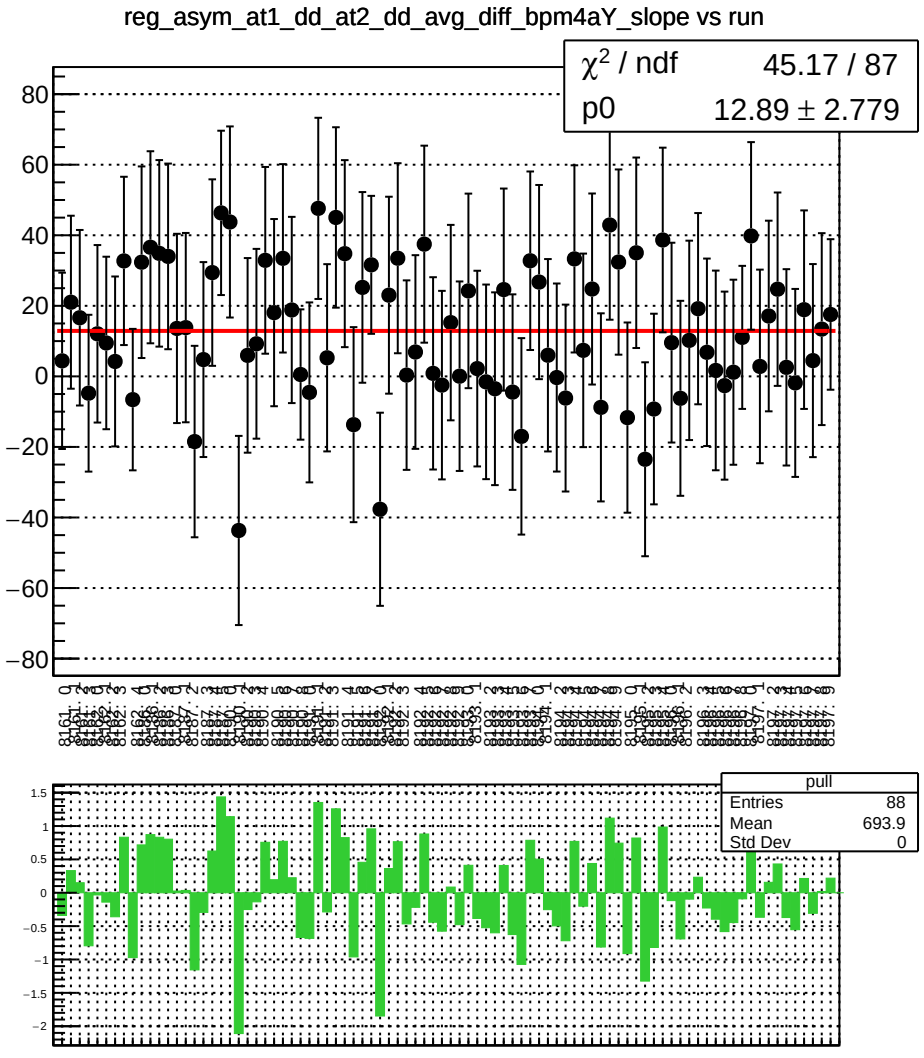

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.05 / 87
p0 −73.1 ± 1.934
−40
−60
−80
−100
−120
−140
pull
Entries 88
Mean −1580
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.001096
Std Dev 0.6035
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

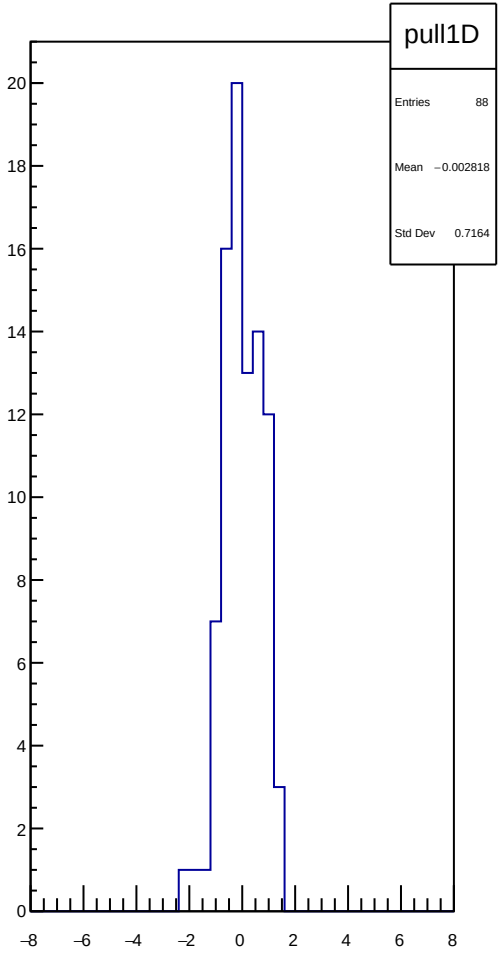

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.07 / 87
p0 9.346 ± 3.458
100
50
0
−50
−100
pull
Entries 88
Mean 918.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

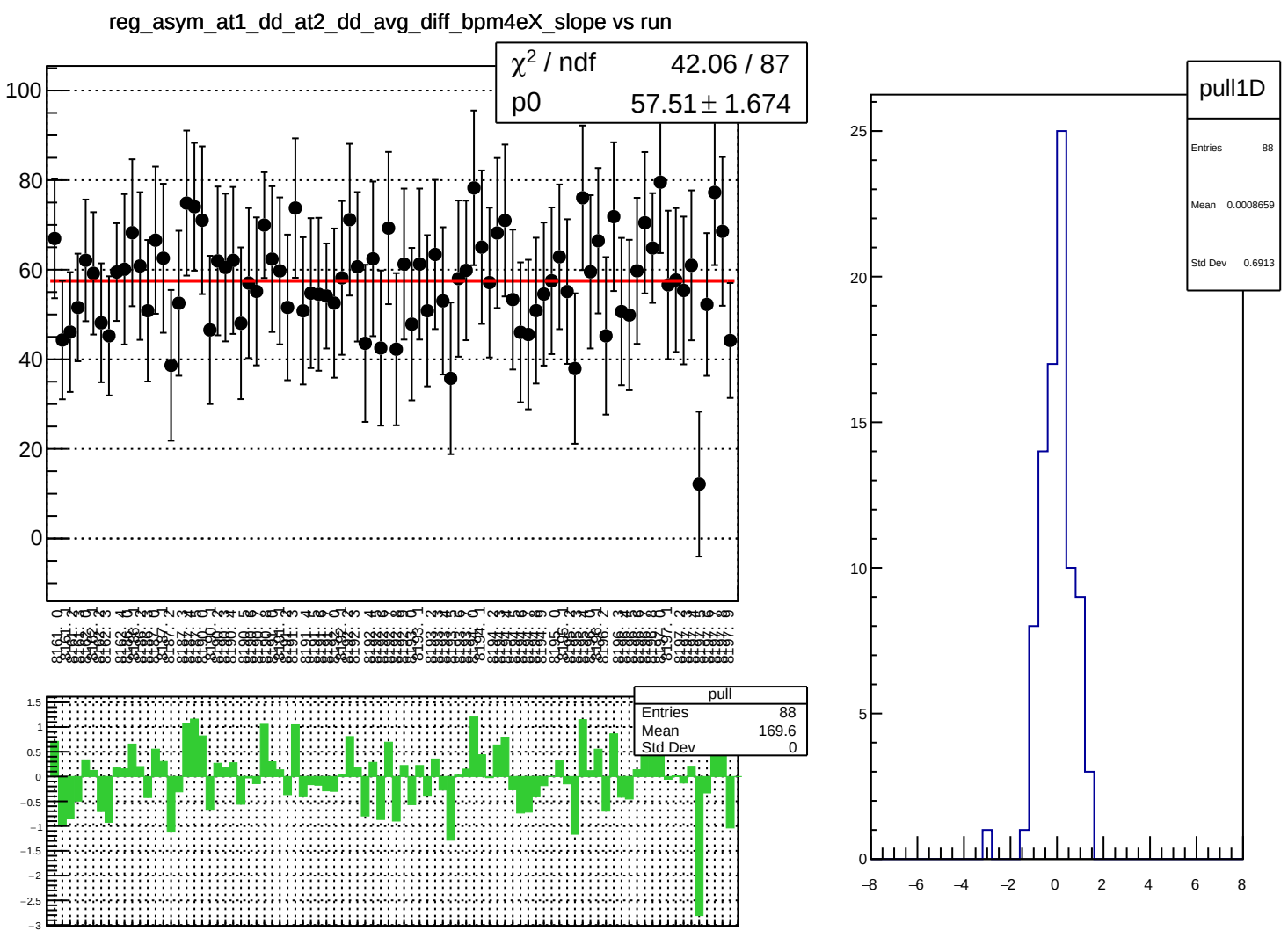

pull1D
Entries 88
Mean −0.002104
Std Dev 0.6832
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

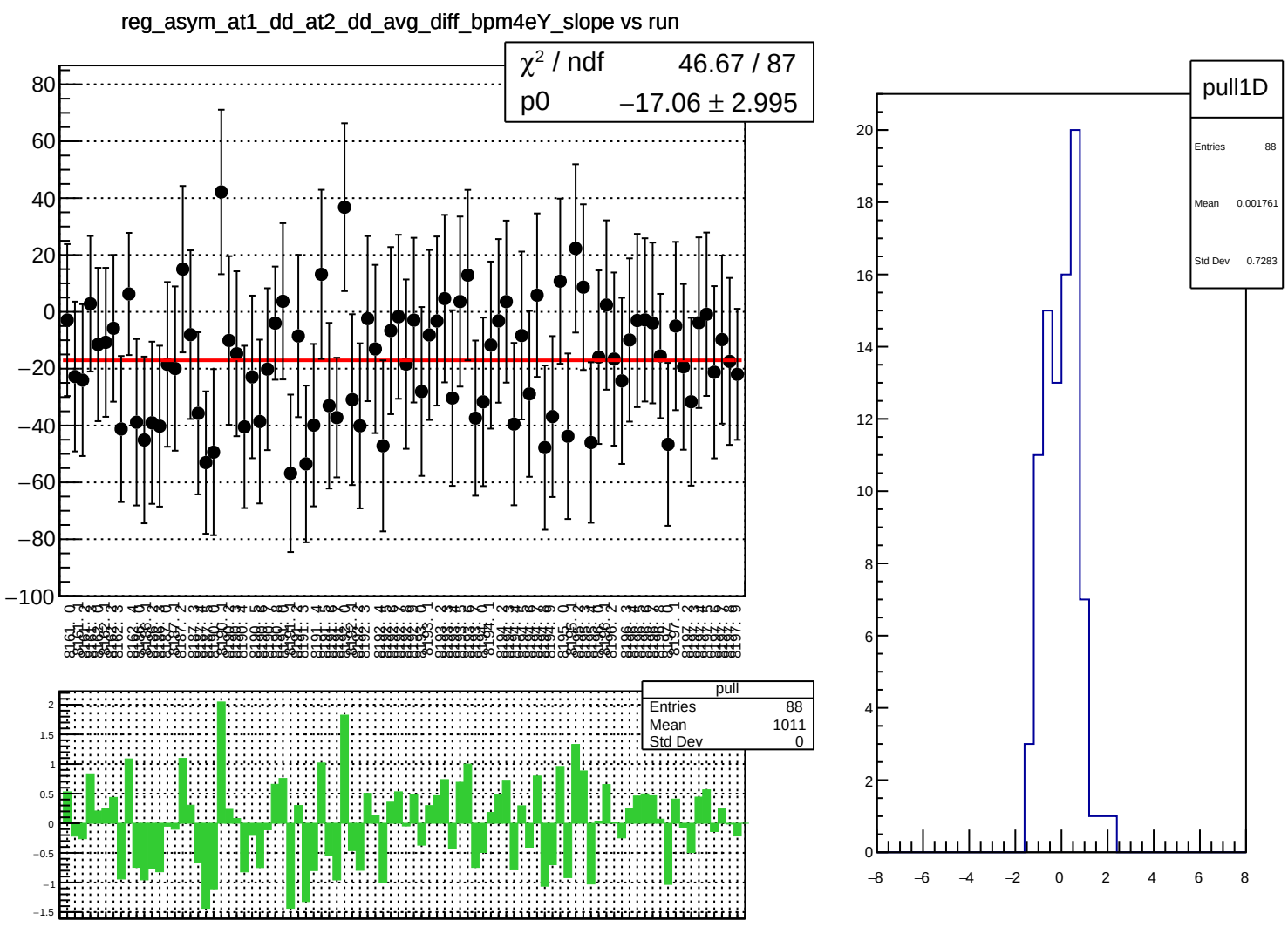

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 99.97 / 87
p0 27.49 ± 0.1562
pull
Entries 88
Mean −1096
Std Dev 0
pull1D
Entries 88
Mean 0.0107
Std Dev 1.066

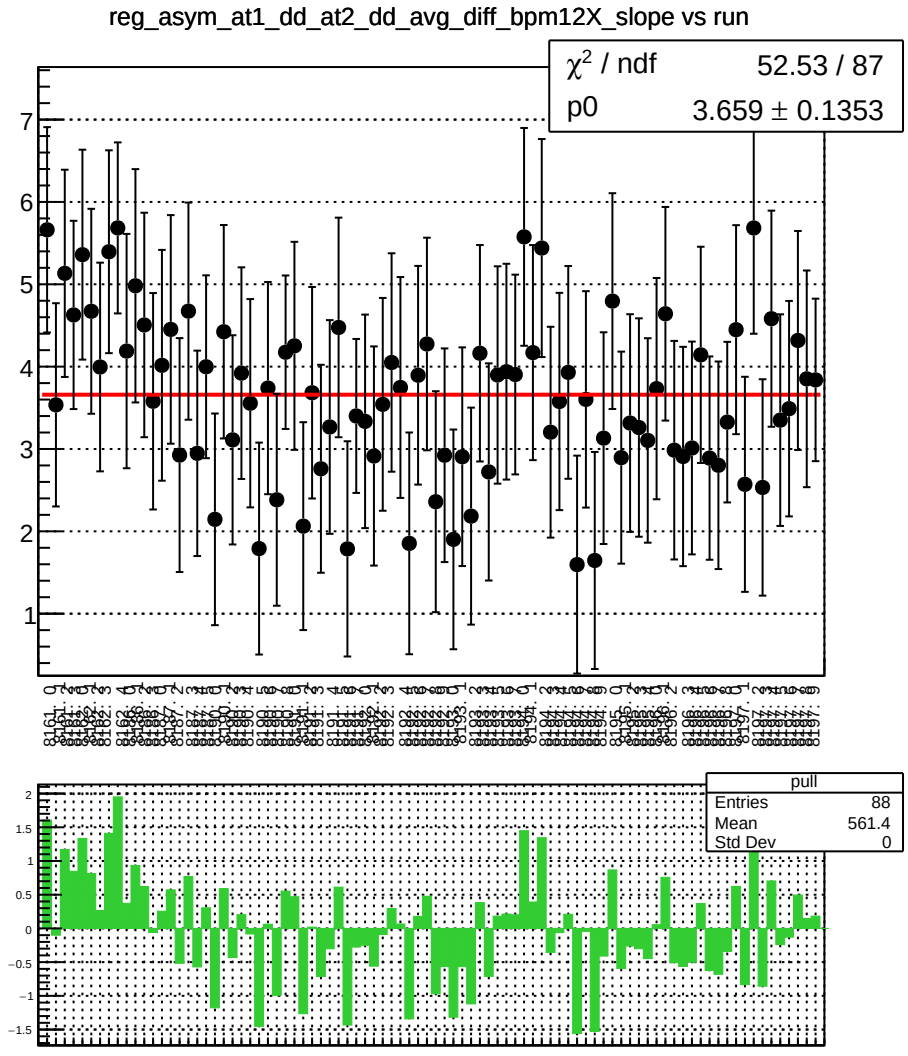

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 42.11 / 87
p0 7.793 ± 1.674
pull
Entries 88
Mean 183.3
Std Dev 0
pull1D
Entries 88
Mean −0.006453
Std Dev 0.6918

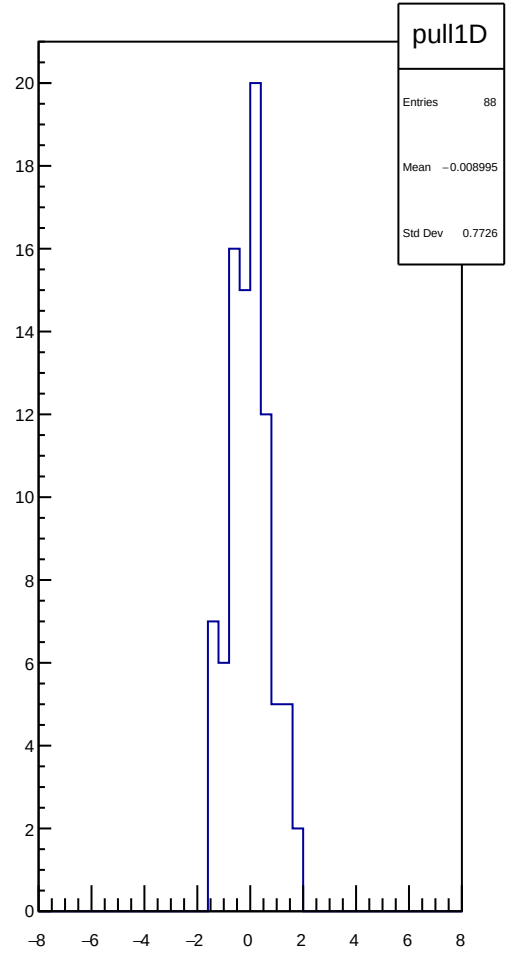

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.17 / 87
p0 12.89 ± 2.779
pull
Entries 88
Mean 693.9
Std Dev 0

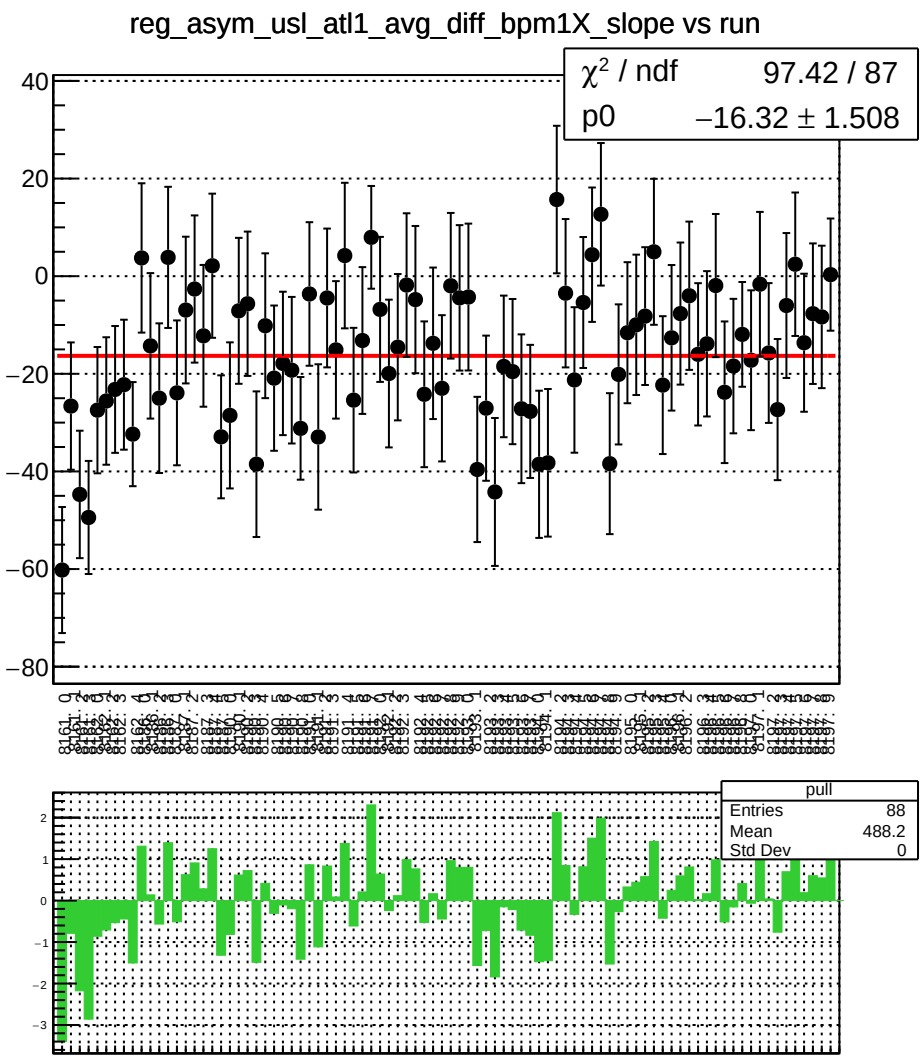

pull1D
Entries 88
Mean −0.002818
Std Dev 0.7164

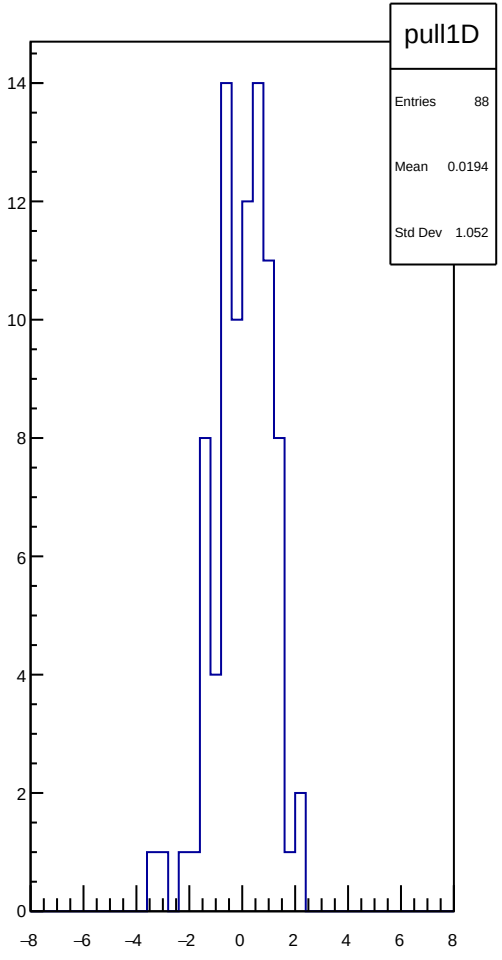

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.06 / 87
p0 57.51 ± 1.674
pull
Entries 88
Mean 169.6
Std Dev 0
pull1D
Entries 88
Mean 0.0008659
Std Dev 0.6913

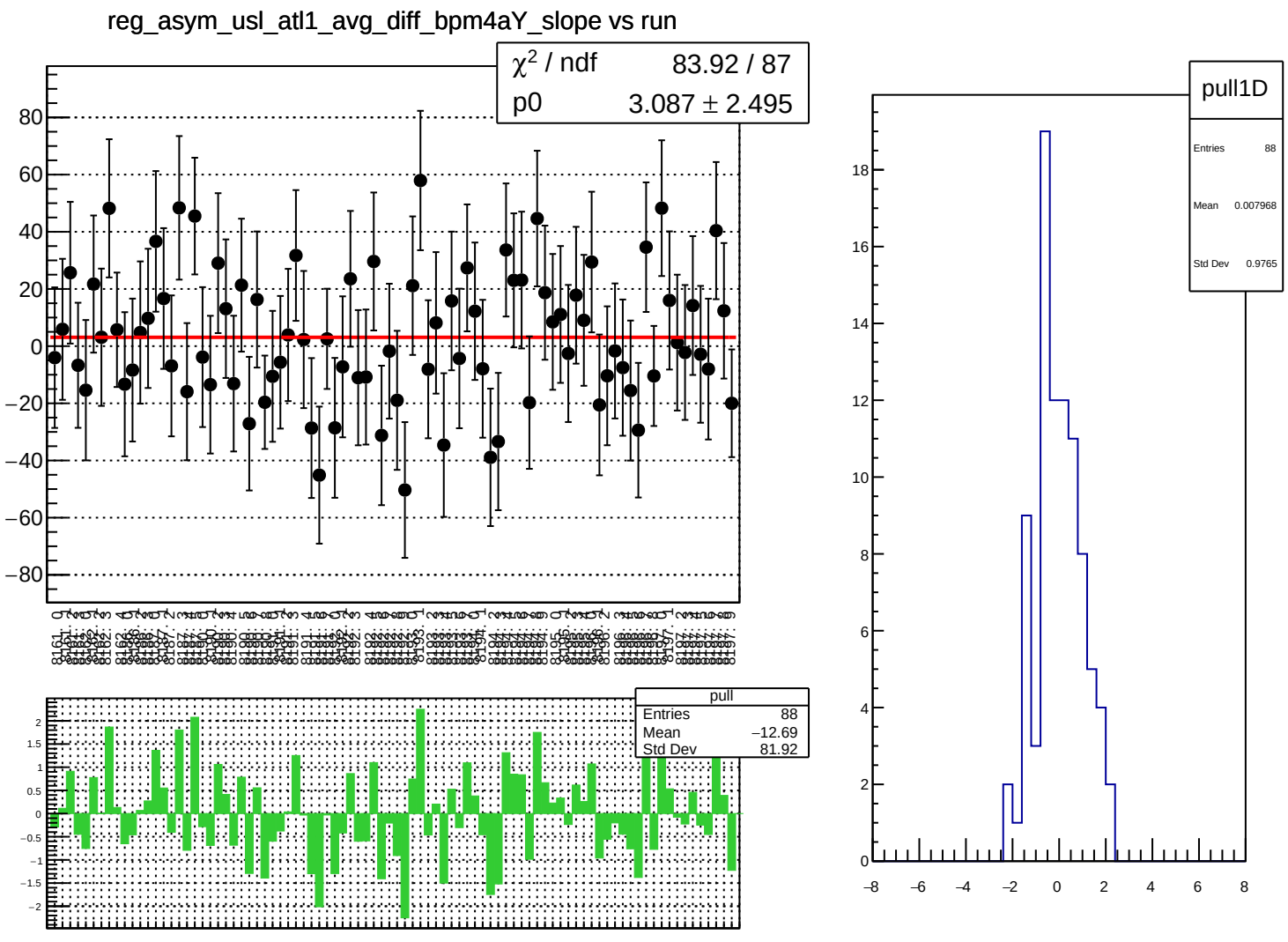

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.67 / 87
p0 −17.06 ± 2.995
pull
Entries 88
Mean 1011
Std Dev 0
pull1D
Entries 88
Mean 0.001761
Std Dev 0.7283

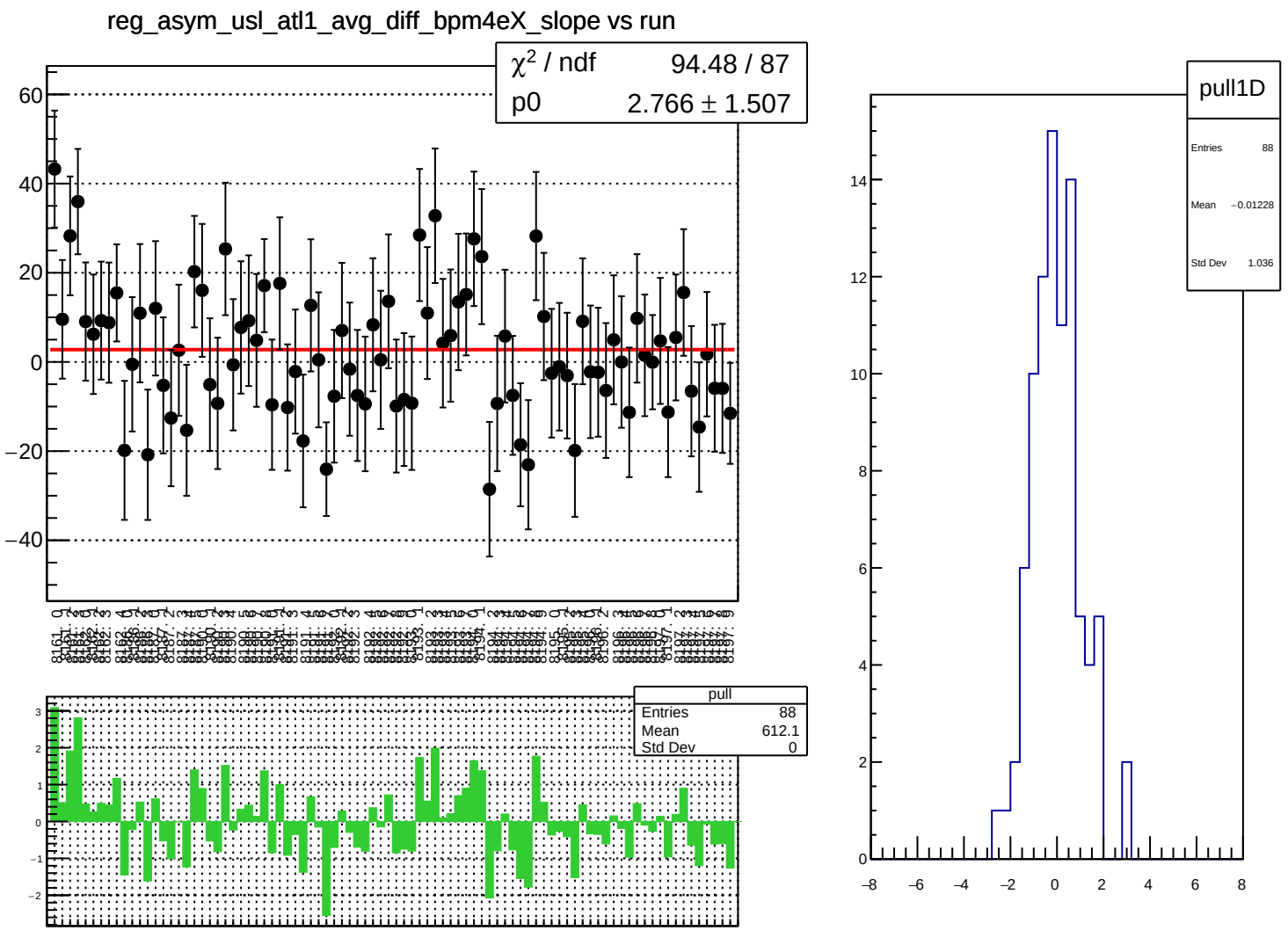

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 52.53 / 87
p0 3.659 ± 0.1353
pull
Entries 88
Mean 561.4
Std Dev 0

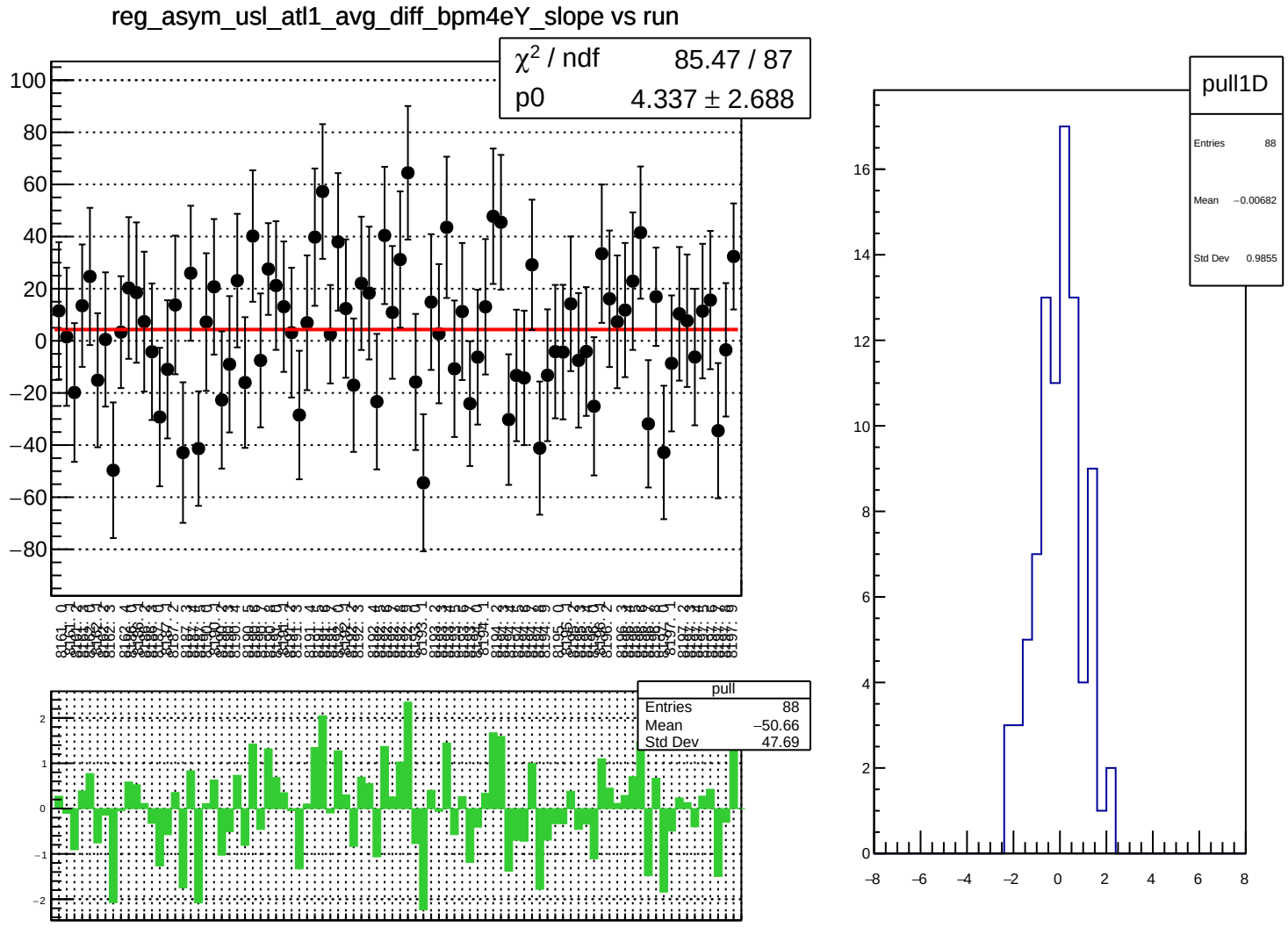

pull1D
Entries 88
Mean −0.008995
Std Dev 0.7726

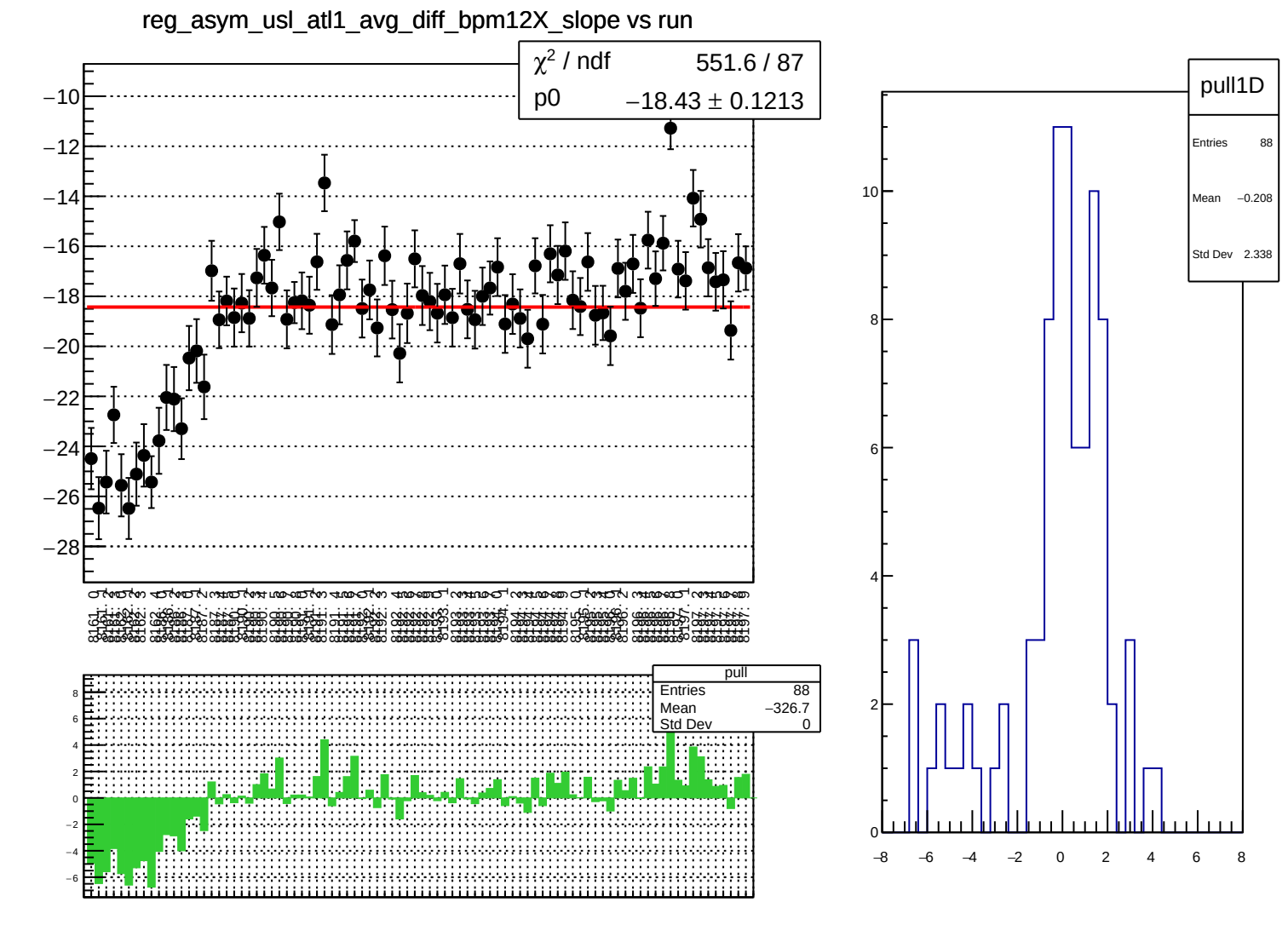

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 97.42 / 87
p0 −16.32 ± 1.508
pull
Entries 88
Mean 488.2
Std Dev 0

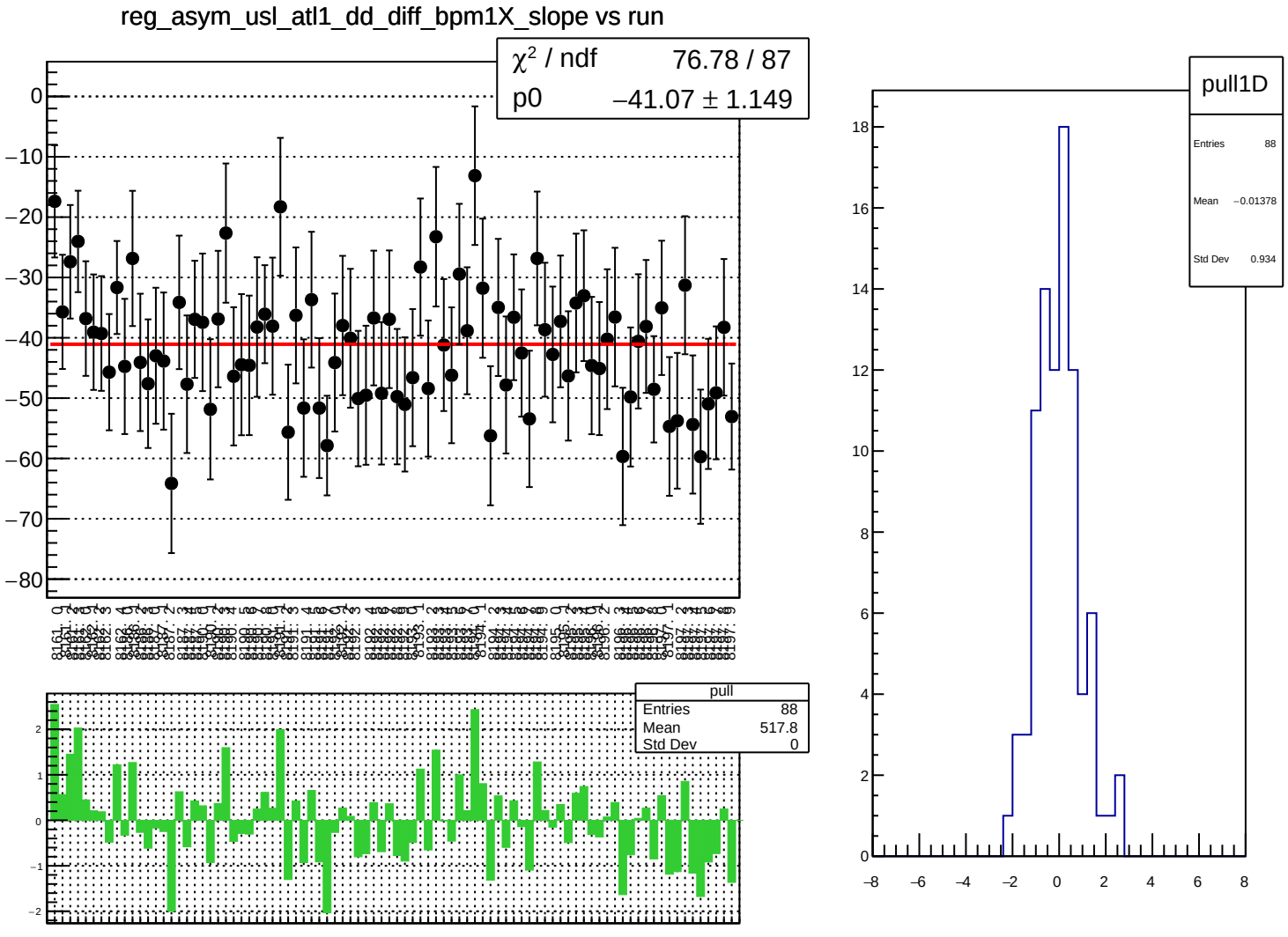

pull1D
Entries 88
Mean 0.0194
Std Dev 1.052

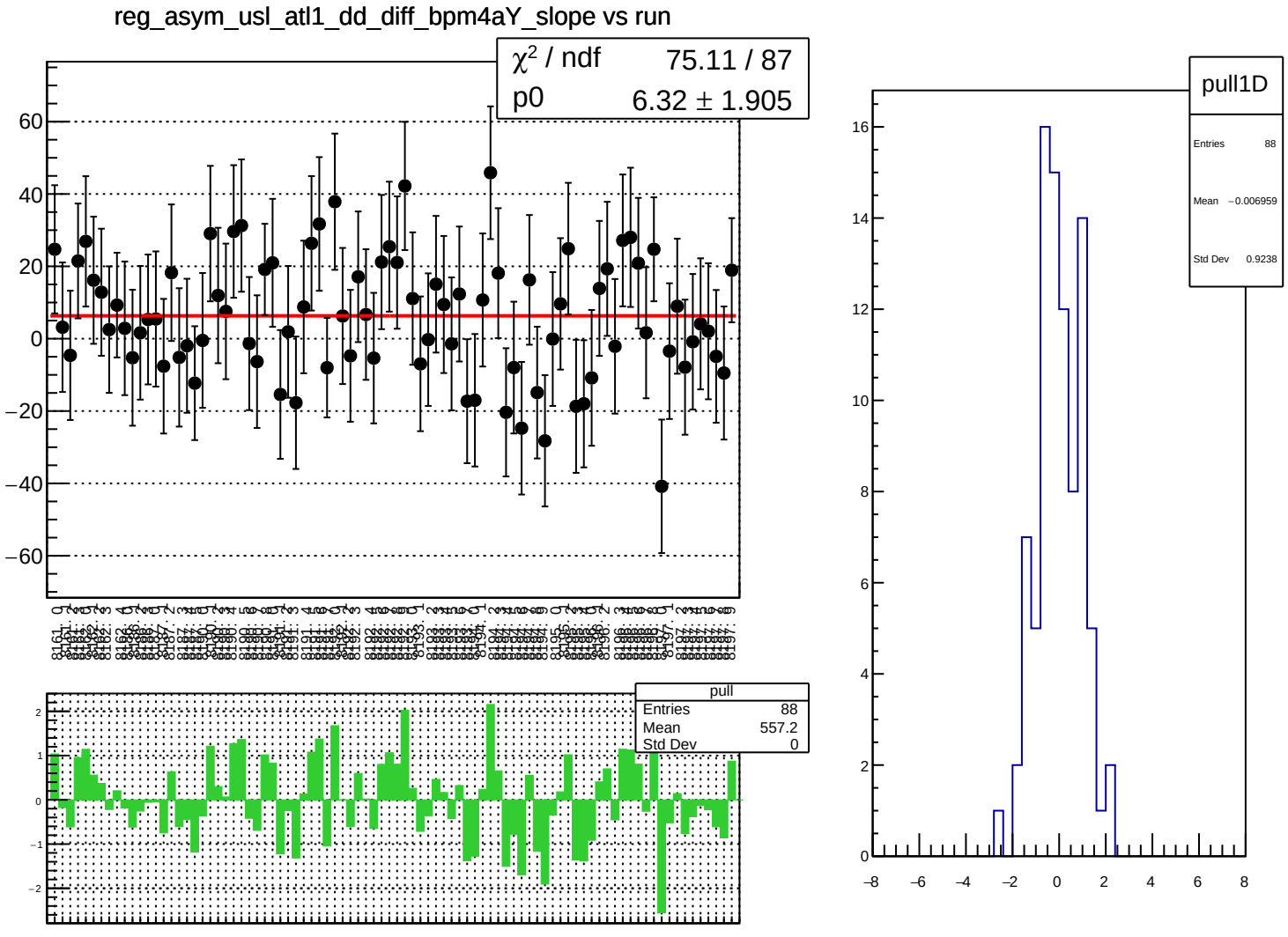

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.92 / 87
p0 3.087 ± 2.495
pull
Entries 88
Mean −12.69
Std Dev 81.92
pull1D
Entries 88
Mean 0.007968
Std Dev 0.9765

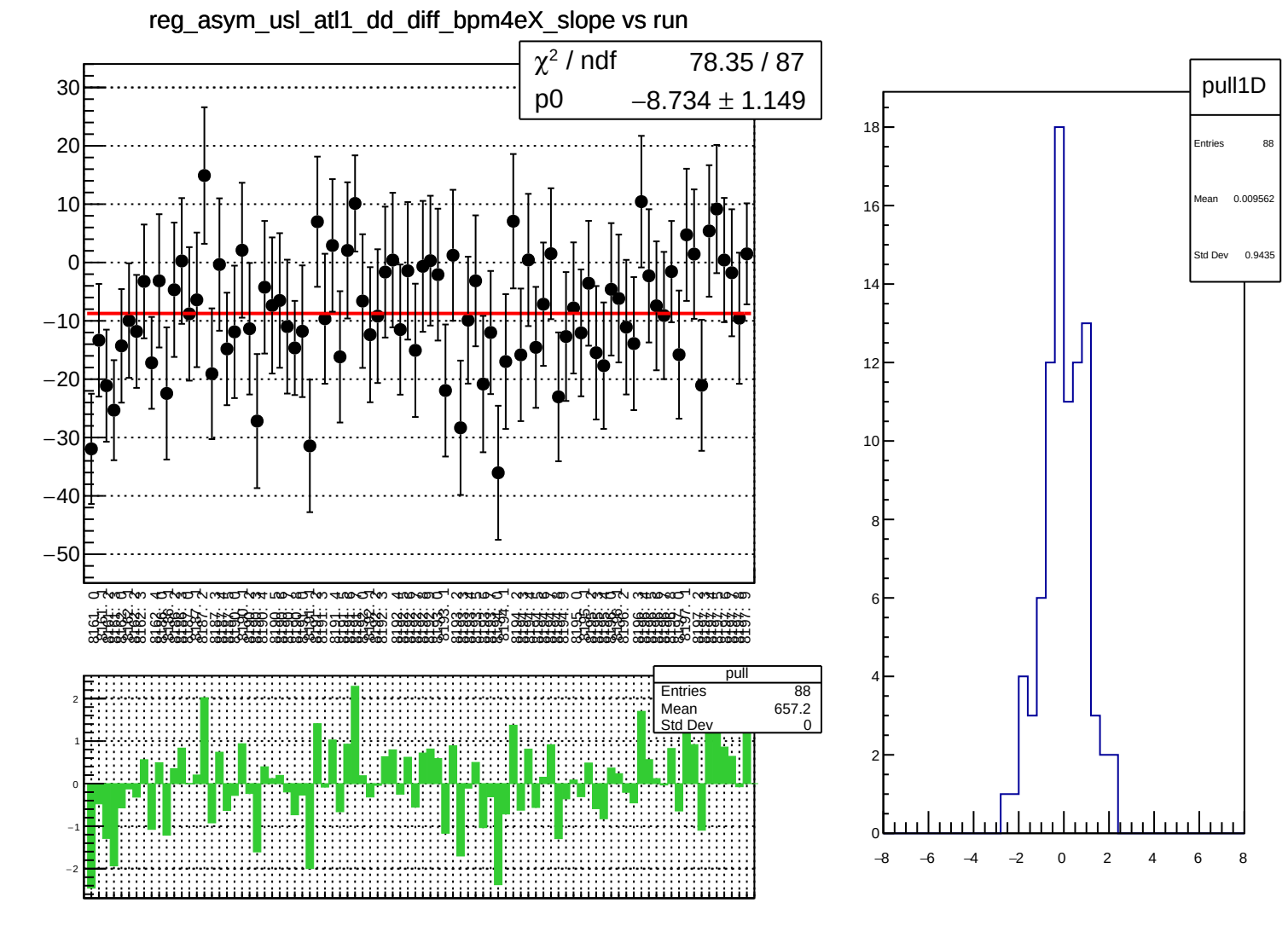

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 94.48 / 87
p0 2.766 ± 1.507
pull
Entries 88
Mean 612.1
Std Dev 0
pull1D
Entries 88
Mean −0.01228
Std Dev 1.036

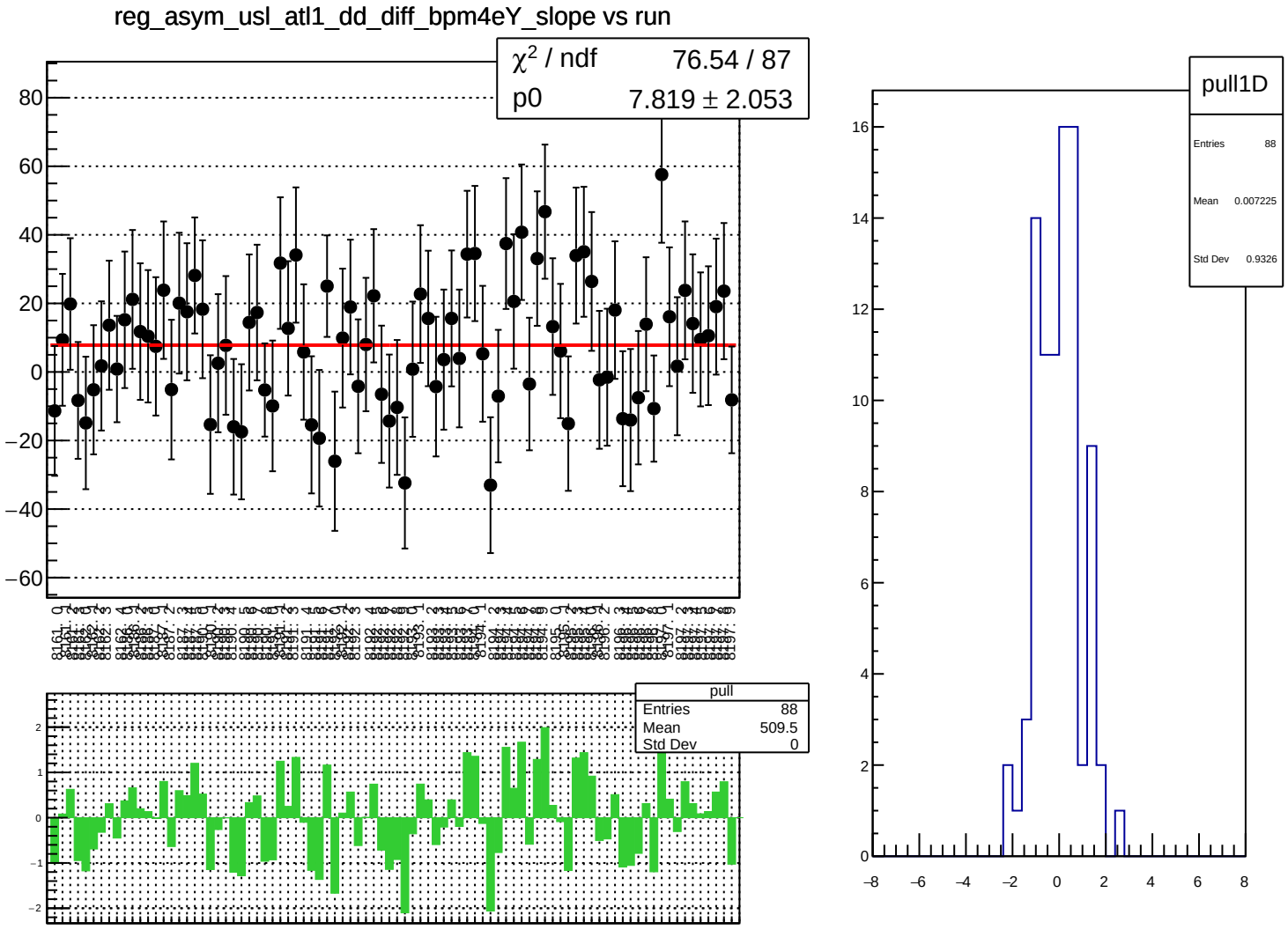

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.47 / 87
p0 4.337 ± 2.688
pull
Entries 88
Mean −50.66
Std Dev 47.69
pull1D
Entries 88
Mean −0.00682
Std Dev 0.9855

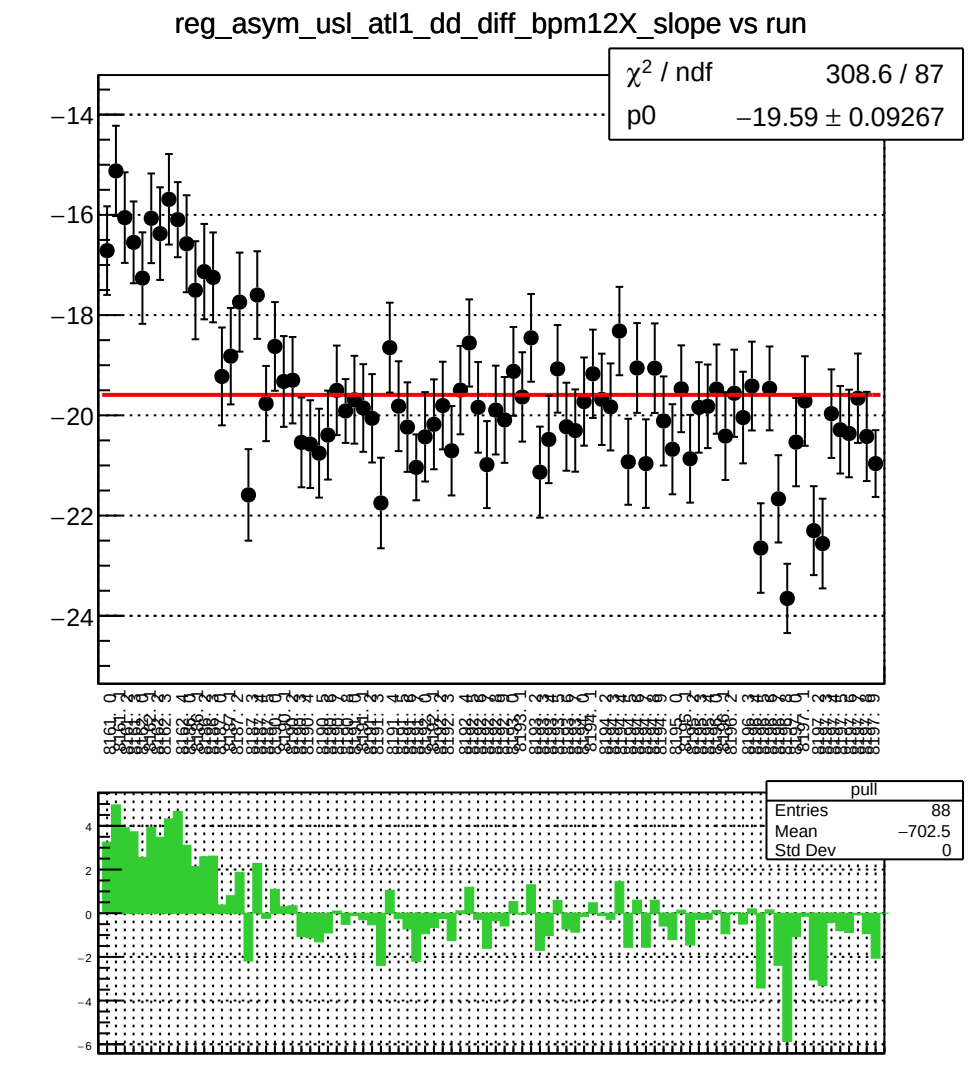

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 551.6 / 87
p0 −18.43 ± 0.1213
pull
Entries 88
Mean −326.7
Std Dev 0
pull1D
Entries 88
Mean −0.208
Std Dev 2.338

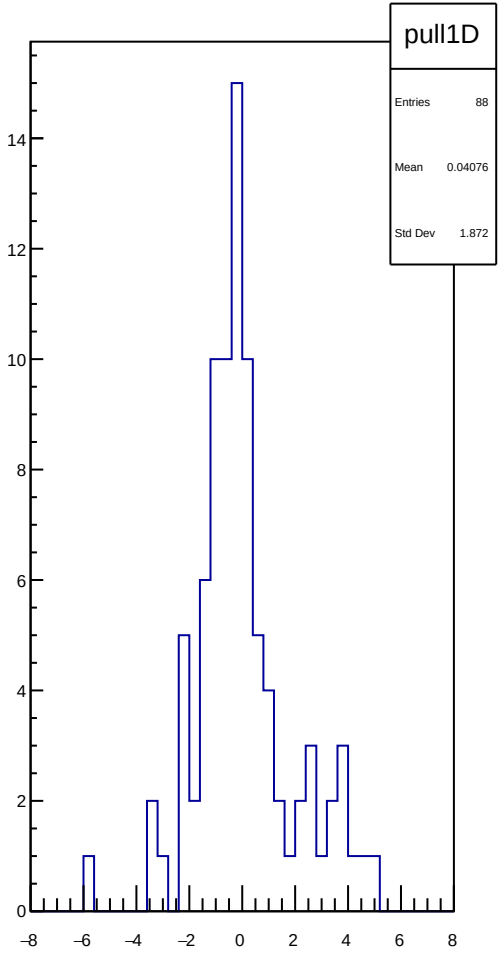

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 76.78 / 87
p0 −41.07 ± 1.149
pull
Entries 88
Mean 517.8
Std Dev 0
pull1D
Entries 88
Mean −0.01378
Std Dev 0.934

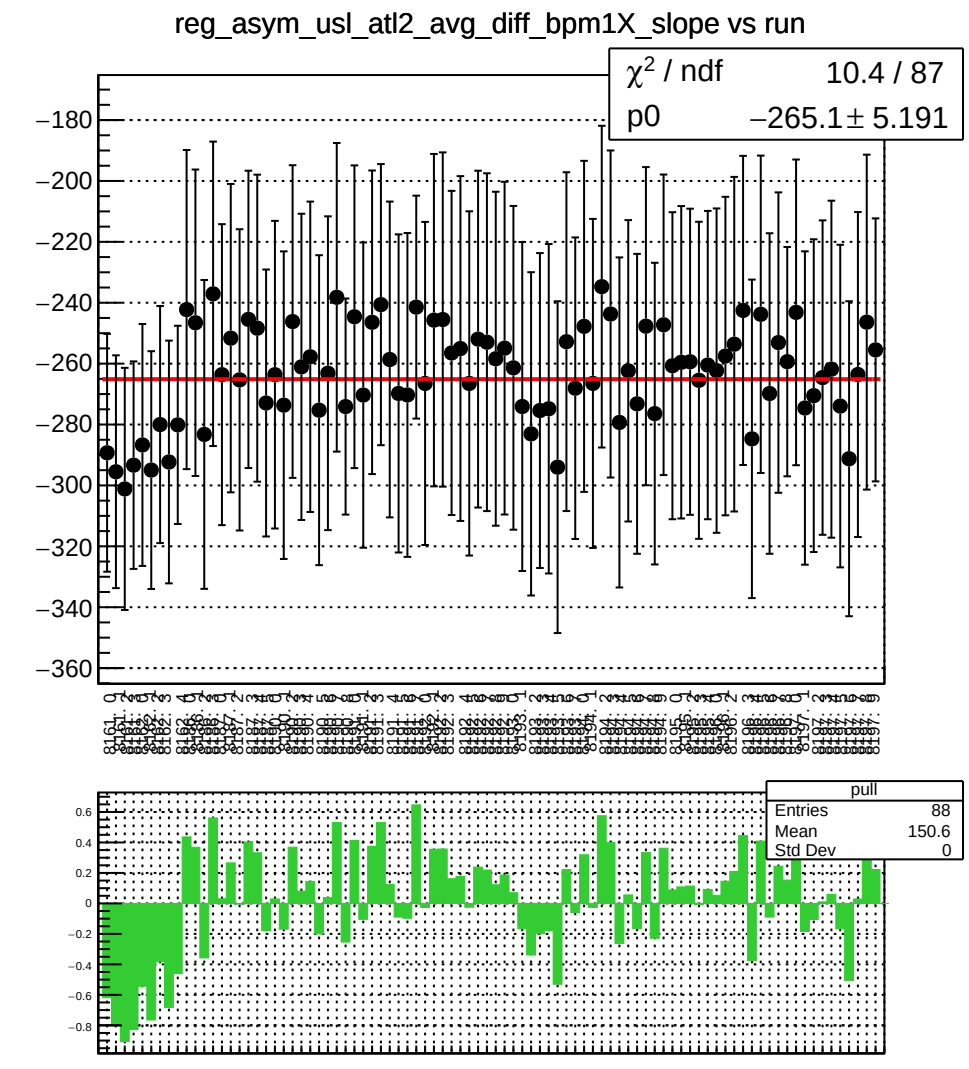

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.11 / 87
p0 6.32 ± 1.905
pull
Entries 88
Mean 557.2
Std Dev 0
pull1D
Entries 88
Mean −0.006959
Std Dev 0.9238

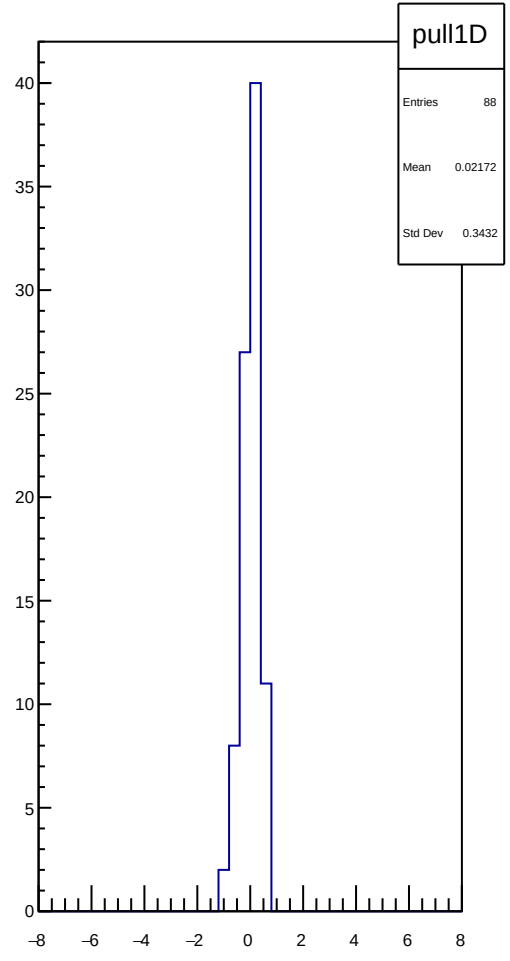

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.35 / 87
p0 −8.734 ± 1.149
pull
Entries 88
Mean 657.2
Std Dev 0
pull1D
Entries 88
Mean 0.009562
Std Dev 0.9435

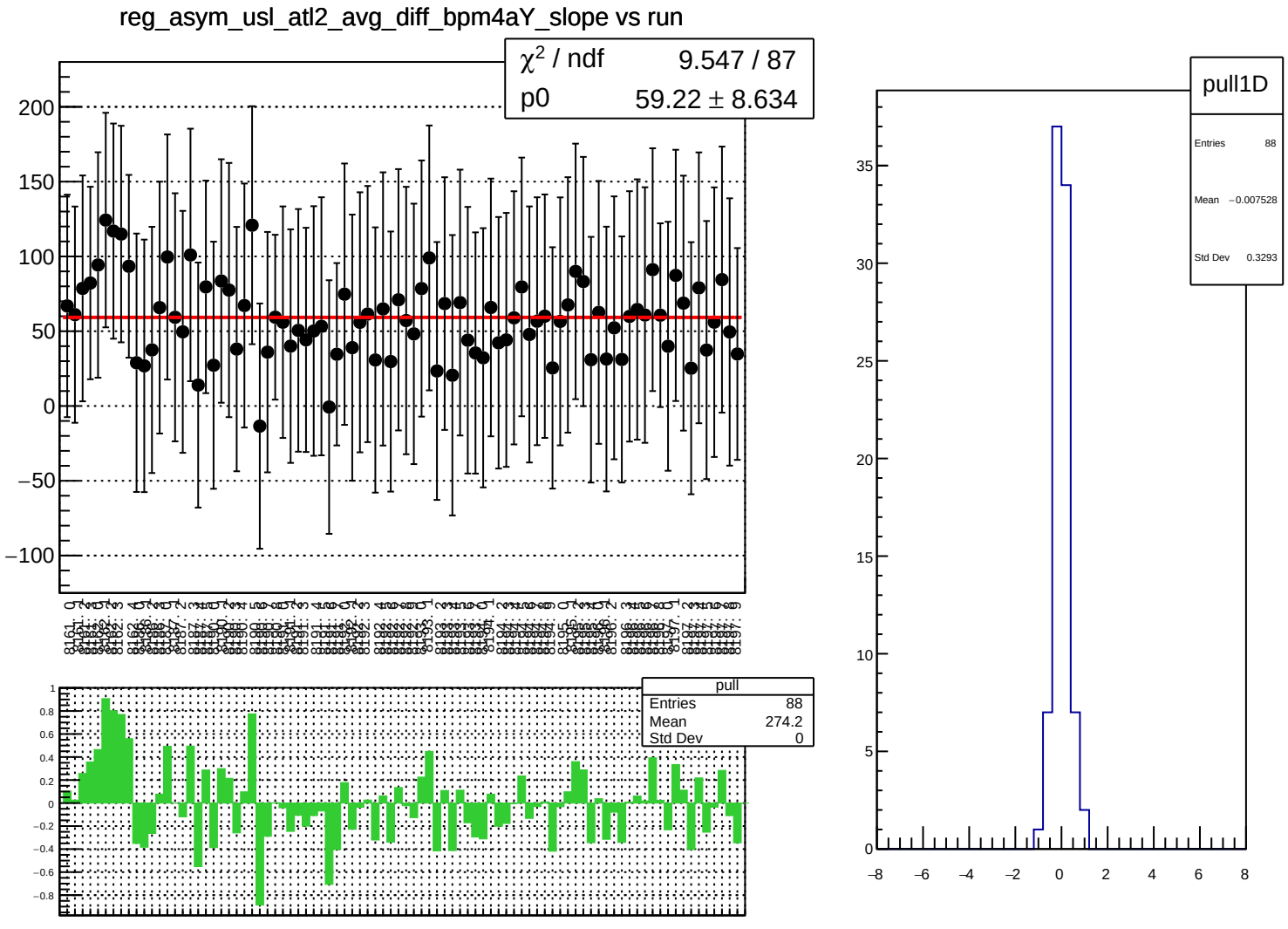

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.54 / 87
p0 7.819 ± 2.053
pull
Entries 88
Mean 509.5
Std Dev 0
pull1D
Entries 88
Mean 0.007225
Std Dev 0.9326

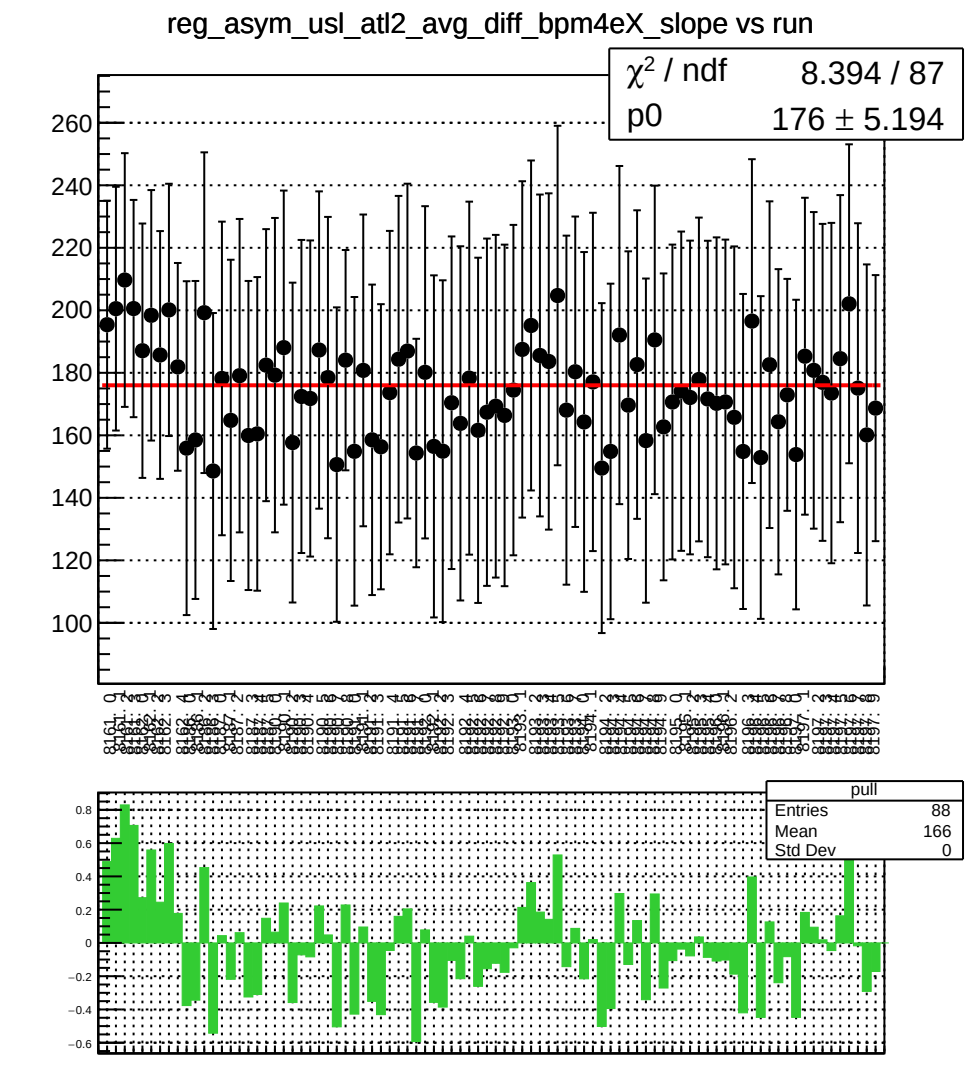

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 308.6 / 87
p0 −19.59 ± 0.09267
pull
Entries 88
Mean −702.5
Std Dev 0

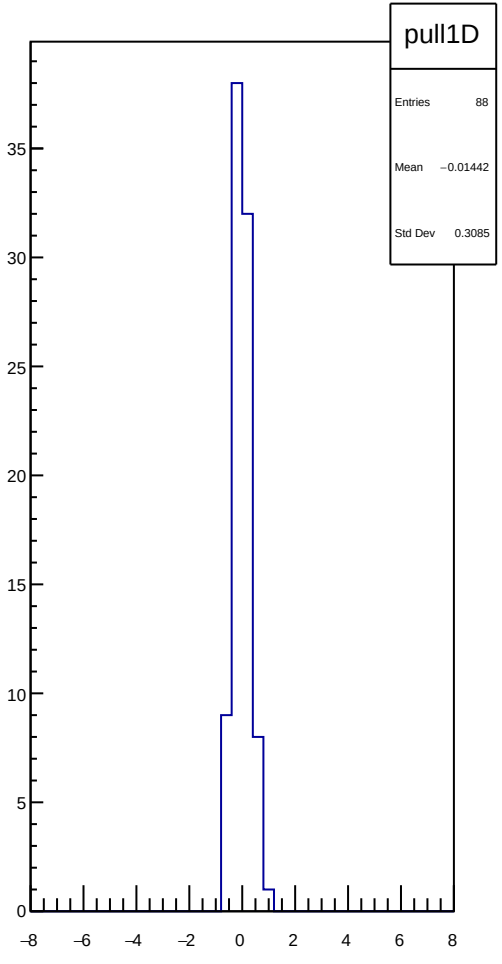

pull1D
Entries 88
Mean 0.04076
Std Dev 1.872

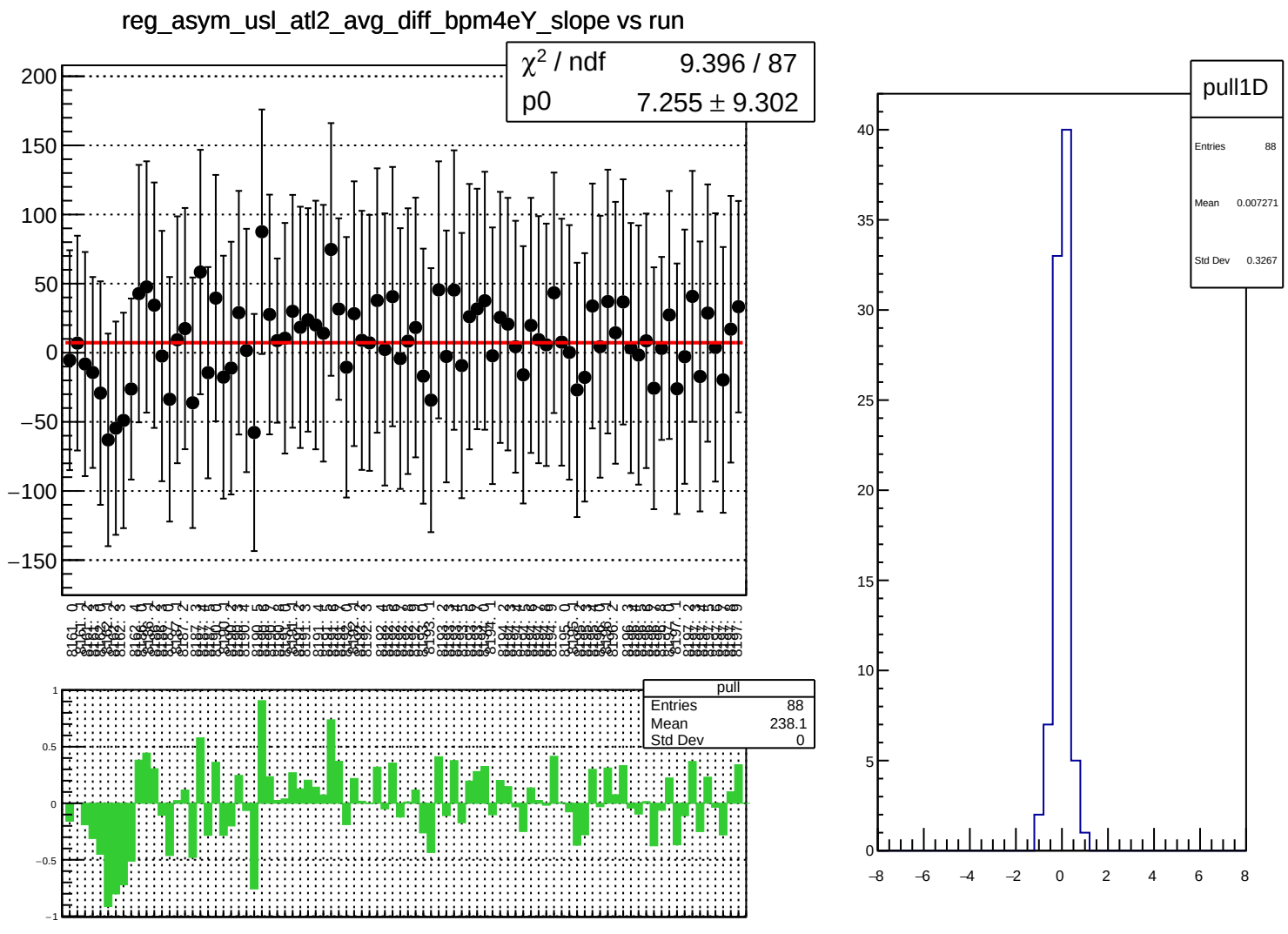

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.4 / 87
p0 −265.1 ± 5.191
pull
Entries 88
Mean 150.6
Std Dev 0

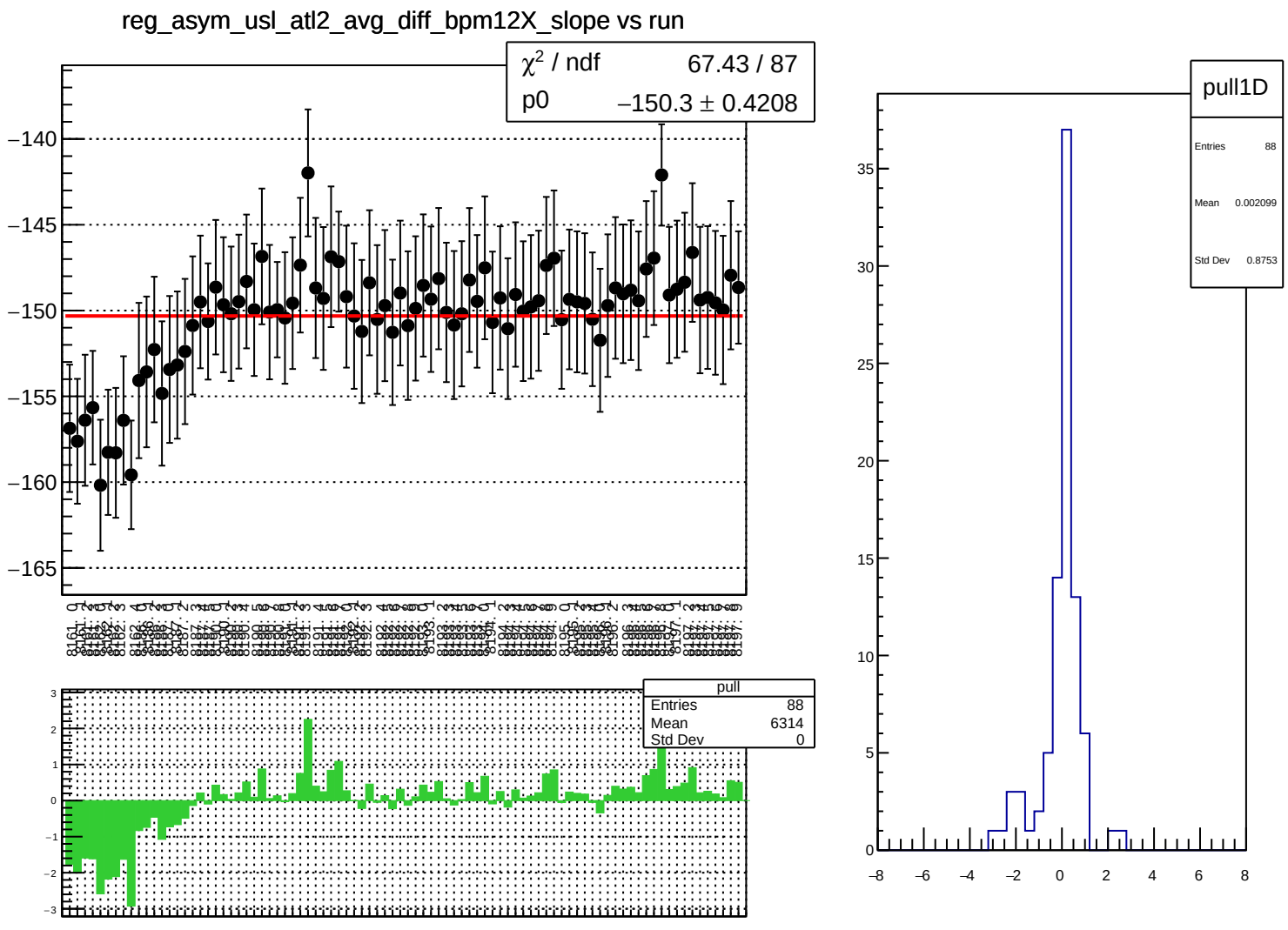

pull1D
Entries 88
Mean 0.02172
Std Dev 0.3432

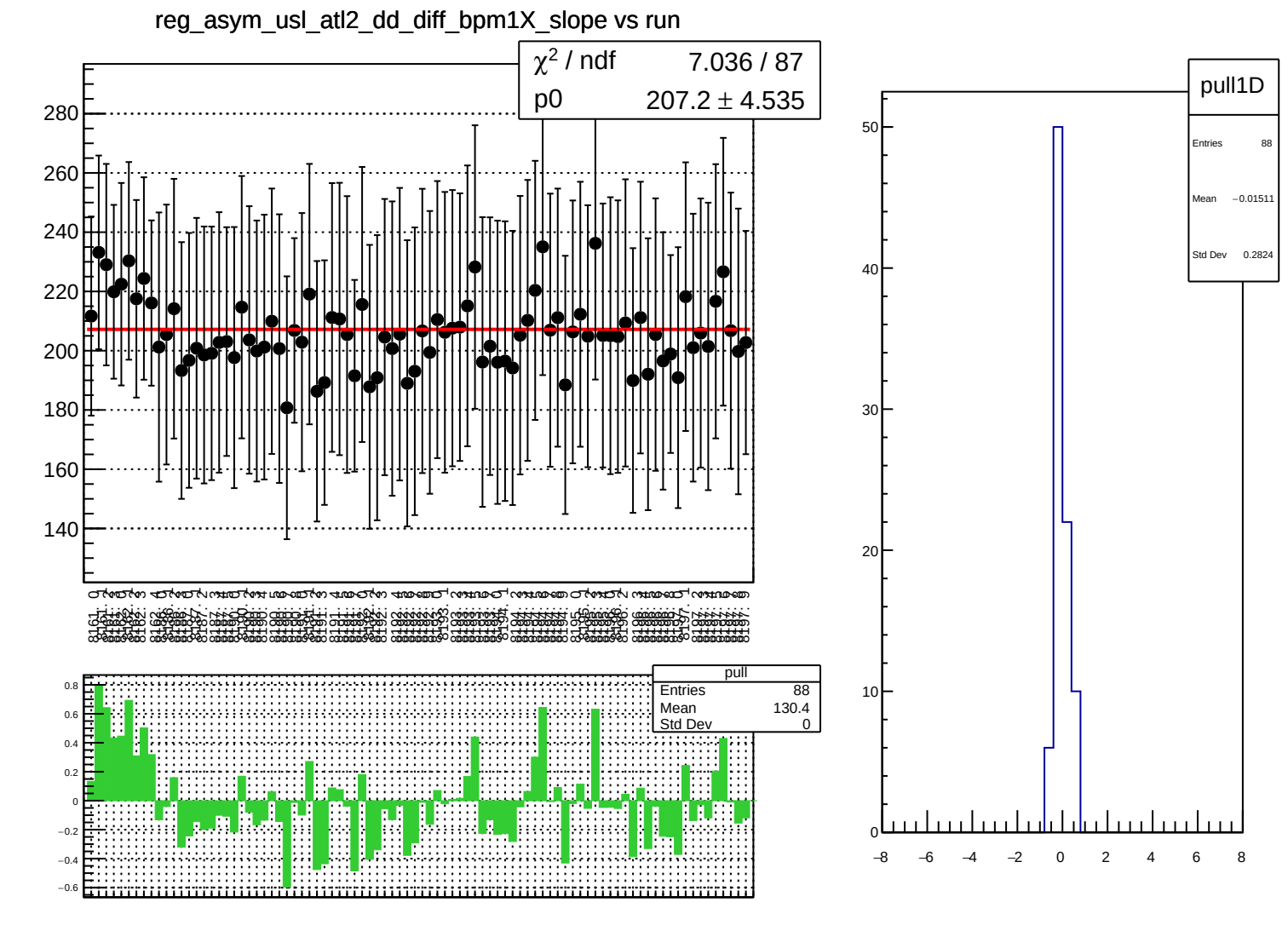

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.547 / 87
p0 59.22 ± 8.634
200
150
100
50
0
−50
−100
pull
Entries 88
Mean 274.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.007528
Std Dev 0.3293
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

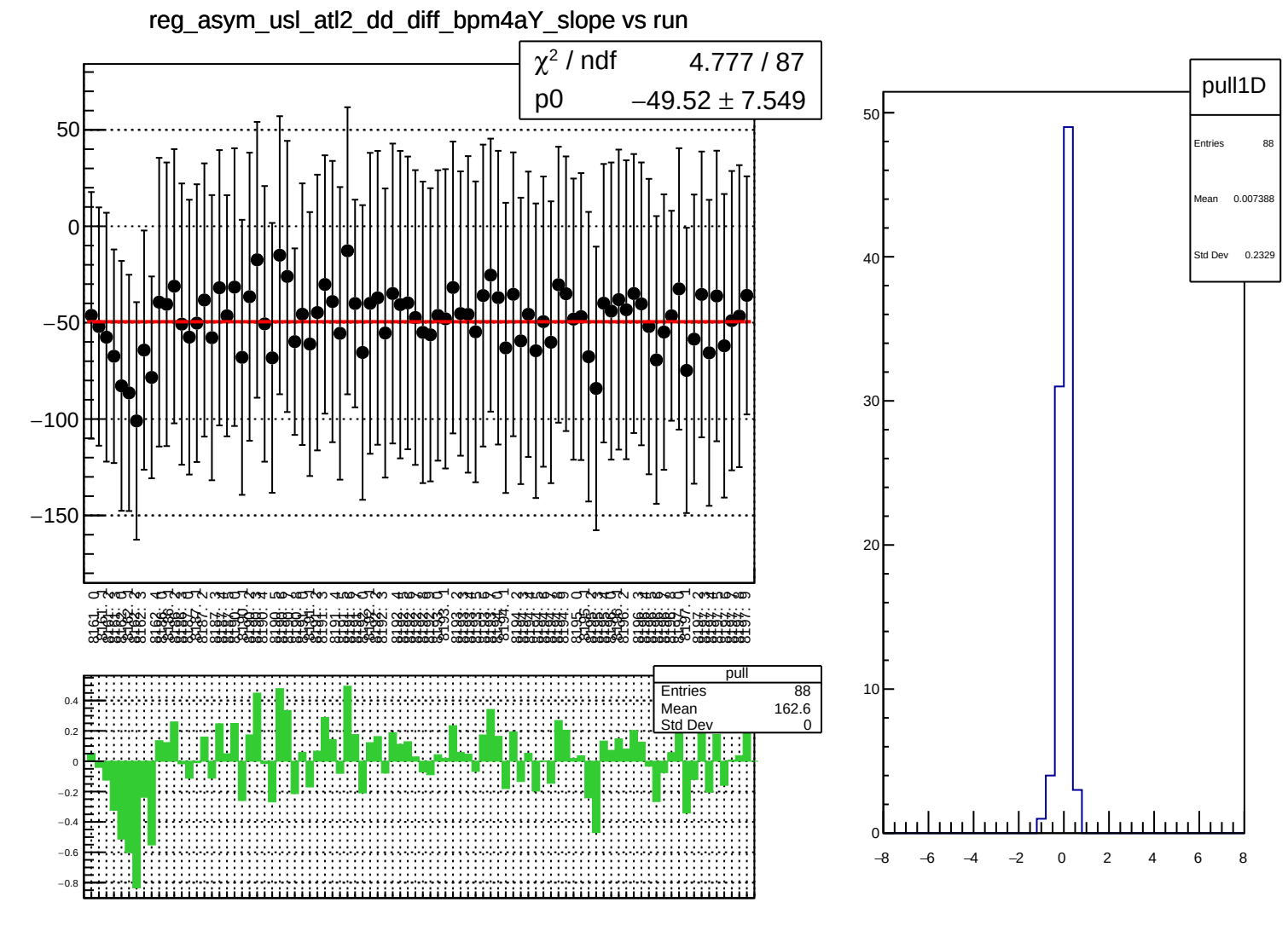

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.394 / 87
p0 176 ± 5.194
pull
Entries 88
Mean 166
Std Dev 0

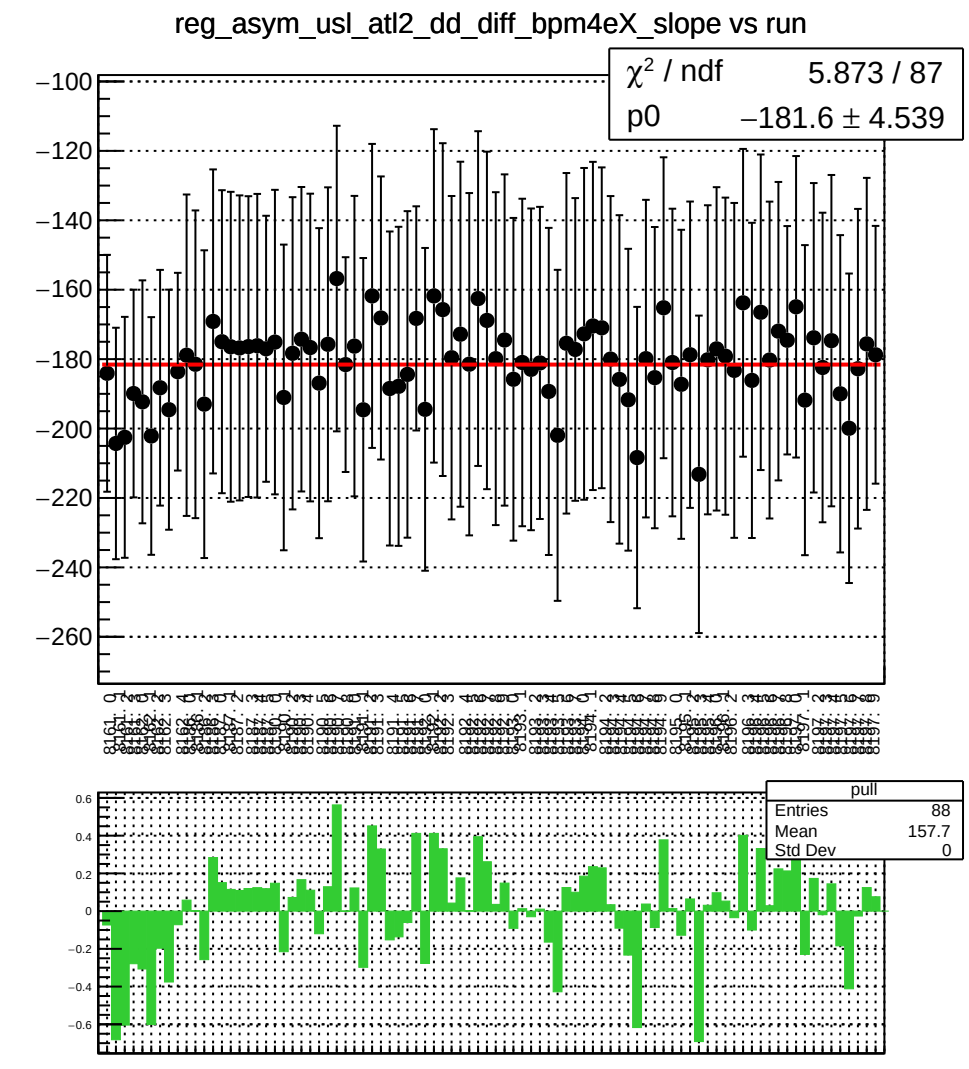

pull1D
Entries 88
Mean −0.01442
Std Dev 0.3085

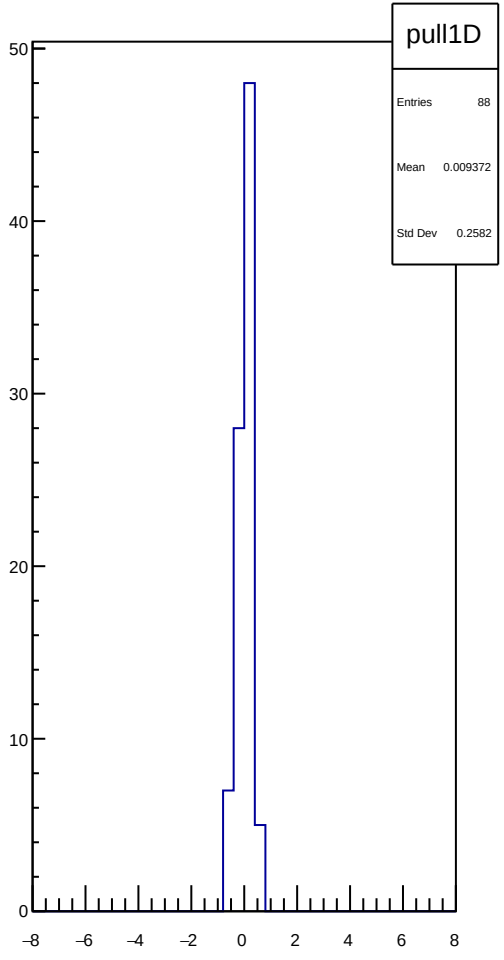

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.396 / 87
p0 7.255 ± 9.302
pull
Entries 88
Mean 238.1
Std Dev 0
pull1D
Entries 88
Mean 0.007271
Std Dev 0.3267

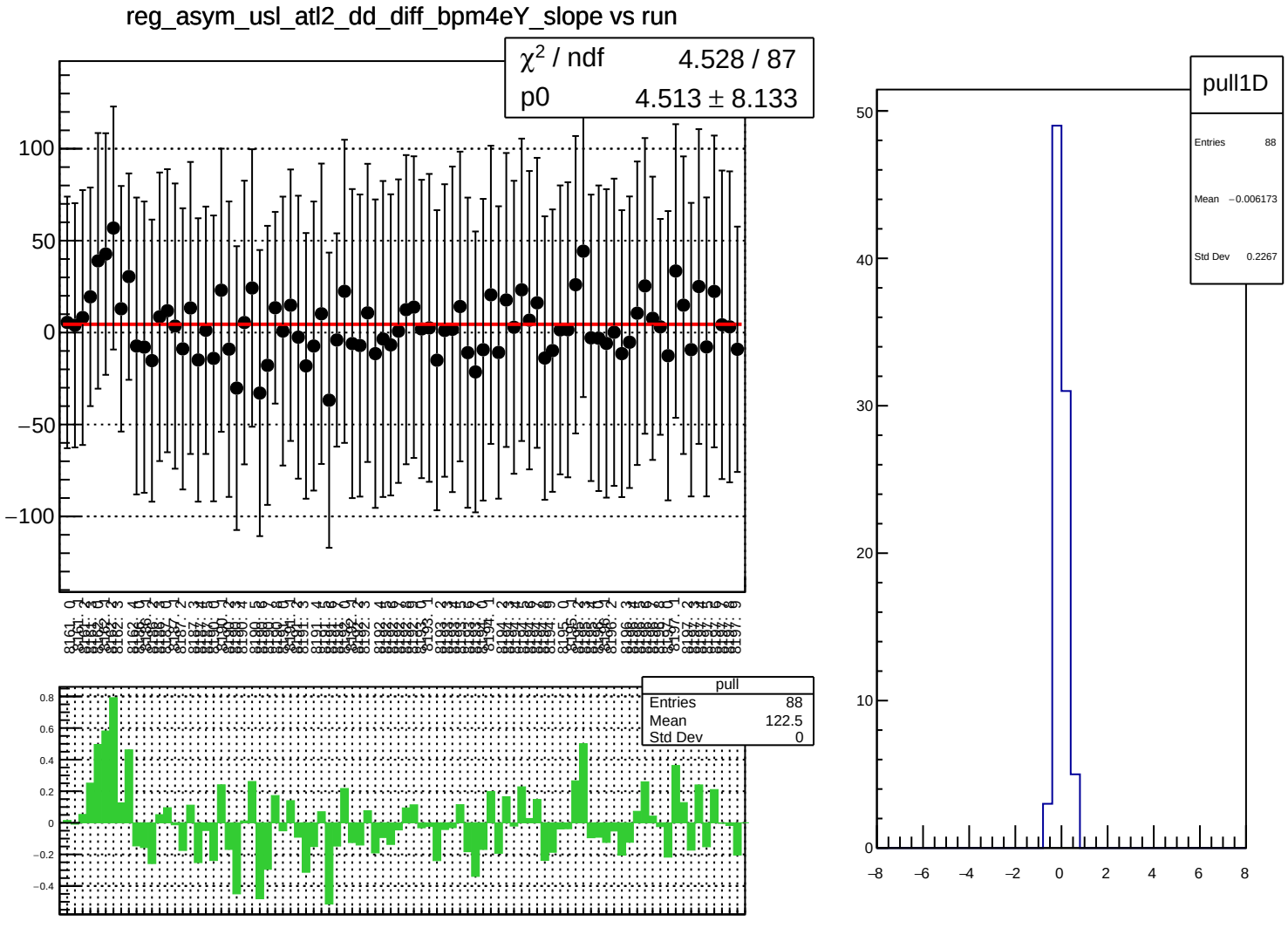

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 67.43 / 87
p0 −150.3 ± 0.4208
−140
−145
−150
−155
−160
−165
pull
Entries 88
Mean 6314
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.002099
Std Dev 0.8753
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

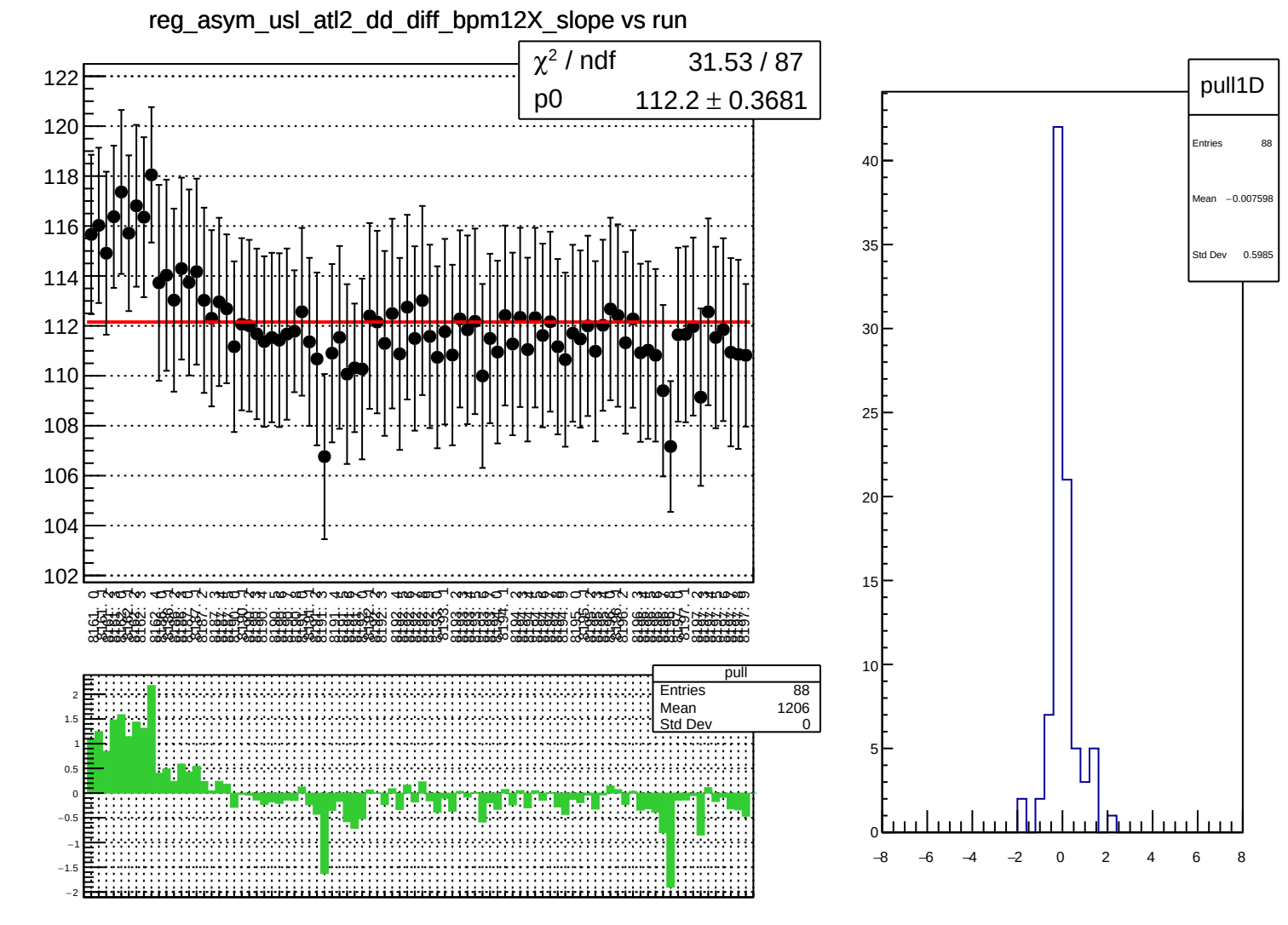

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 7.036 / 87
p0 207.2 ± 4.535
pull
Entries 88
Mean 130.4
Std Dev 0
pull1D
Entries 88
Mean −0.01511
Std Dev 0.2824

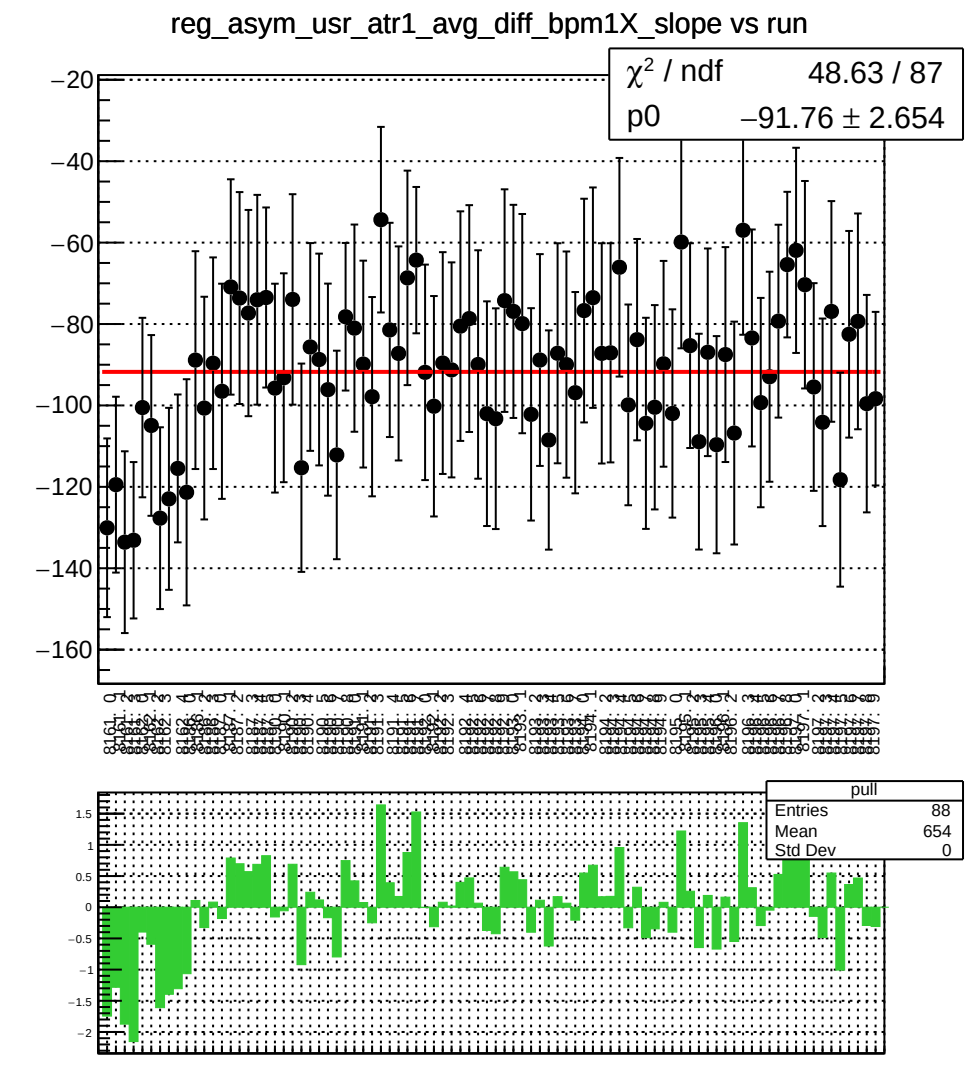

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.777 / 87
p0 −49.52 ± 7.549
50
0
−50
−100
−150
pull
Entries 88
Mean 162.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.007388
Std Dev 0.2329
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

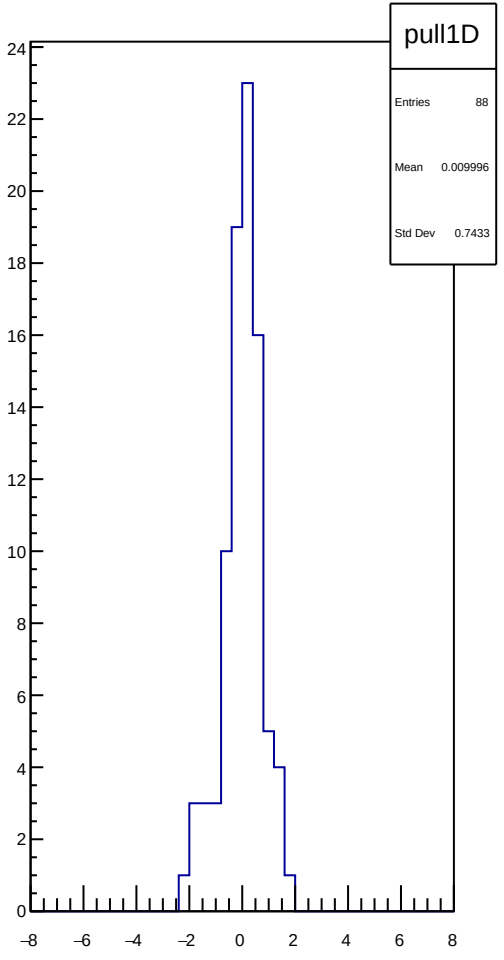

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.873 / 87
p0 −181.6 ± 4.539
pull
Entries 88
Mean 157.7
Std Dev 0

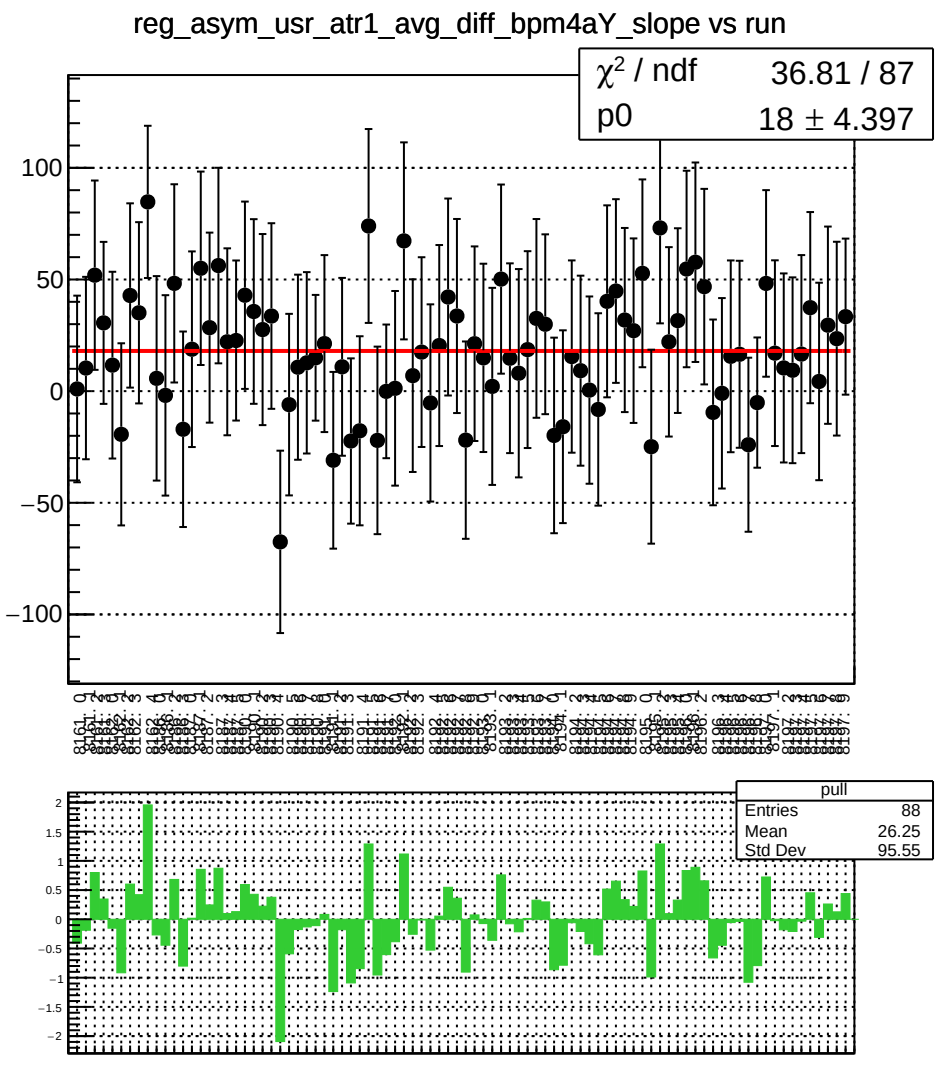

pull1D
Entries 88
Mean 0.009372
Std Dev 0.2582

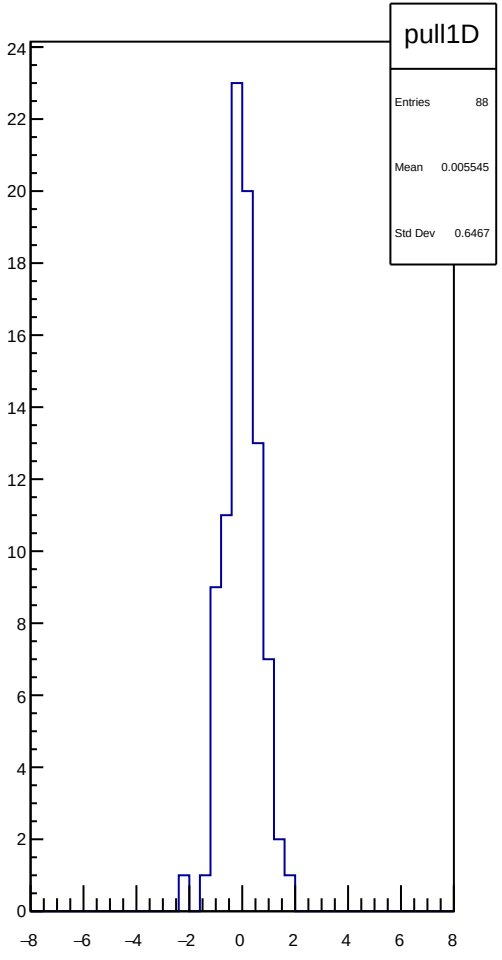

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.528 / 87
p0 4.513 ± 8.133
pull
Entries 88
Mean 122.5
Std Dev 0
pull1D
Entries 88
Mean −0.006173
Std Dev 0.2267

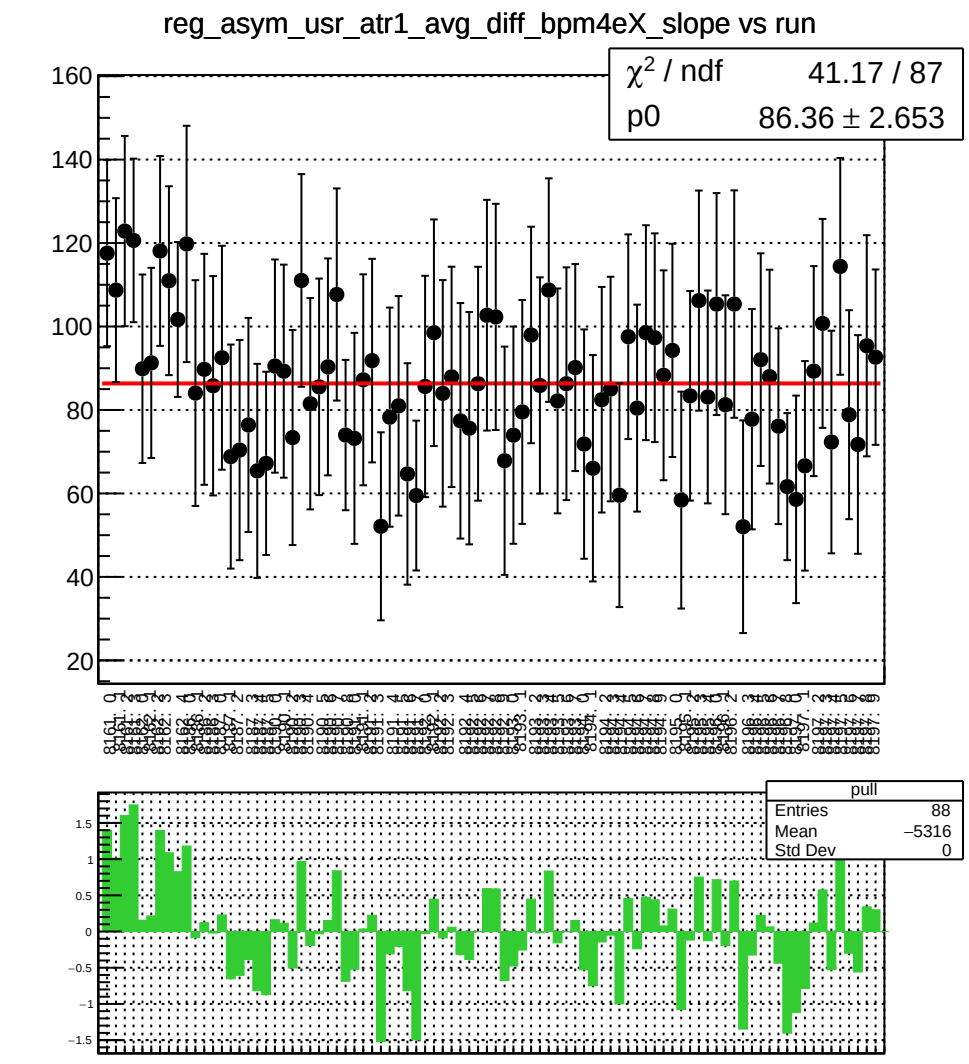

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 31.53 / 87
p0 112.2 ± 0.3681
pull
Entries 88
Mean 1206
Std Dev 0
pull1D
Entries 88
Mean −0.007598
Std Dev 0.5985

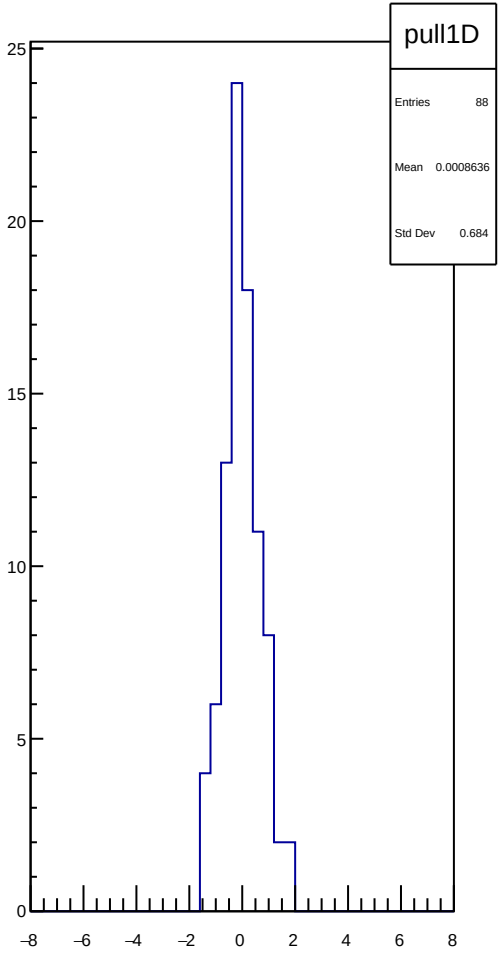

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 48.63 / 87
p0 −91.76 ± 2.654
pull
Entries 88
Mean 654
Std Dev 0

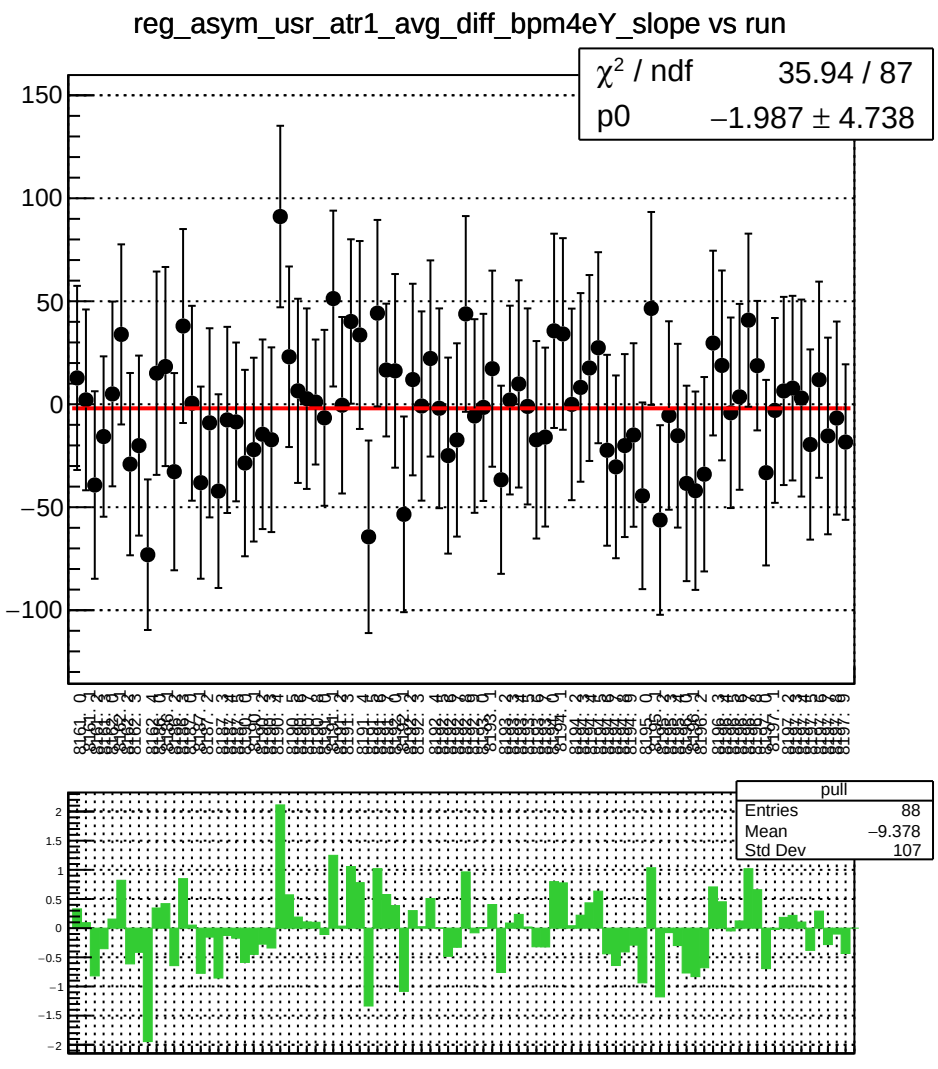

pull1D
Entries 88
Mean 0.009996
Std Dev 0.7433

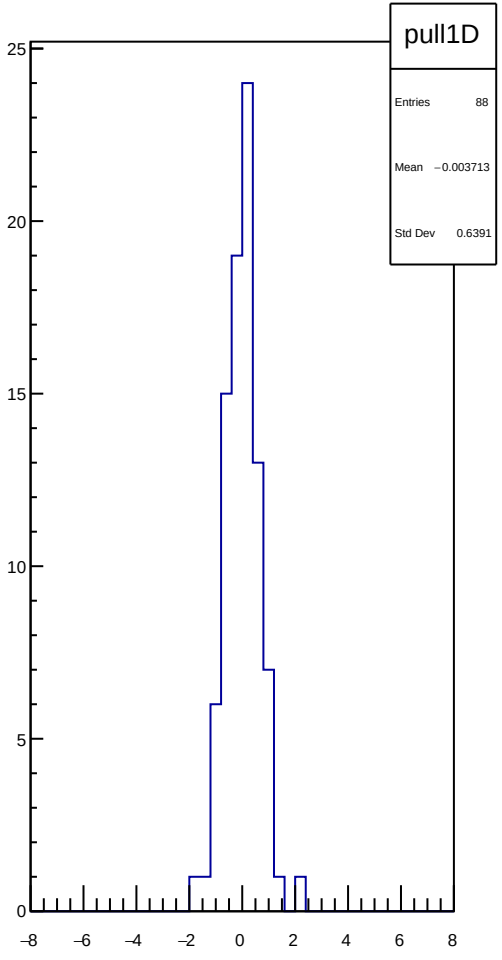

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.81 / 87
p0 18 ± 4.397
pull
Entries 88
Mean 26.25
Std Dev 95.55

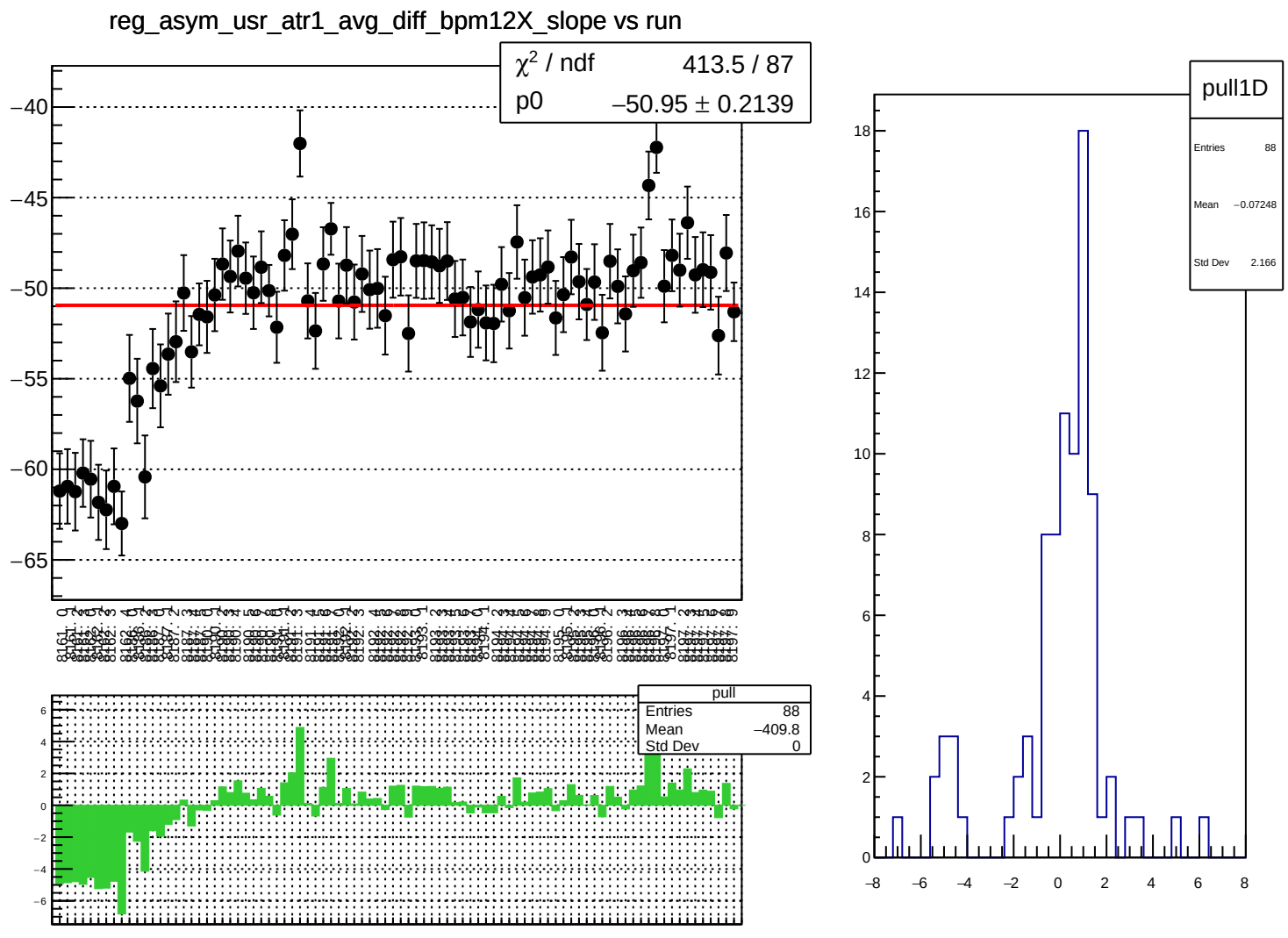

pull1D
Entries 88
Mean 0.005545
Std Dev 0.6467

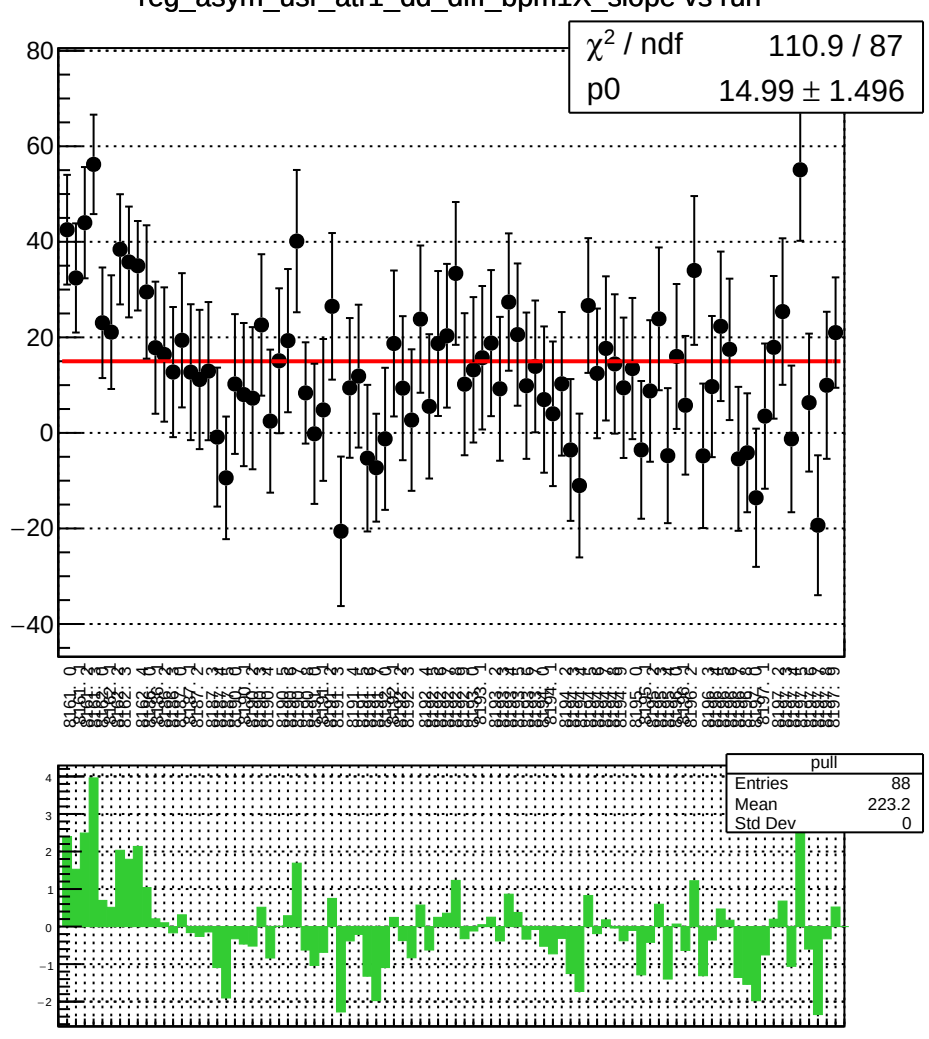

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.17 / 87
p0 86.36 ± 2.653
pull
Entries 88
Mean −5316
Std Dev 0

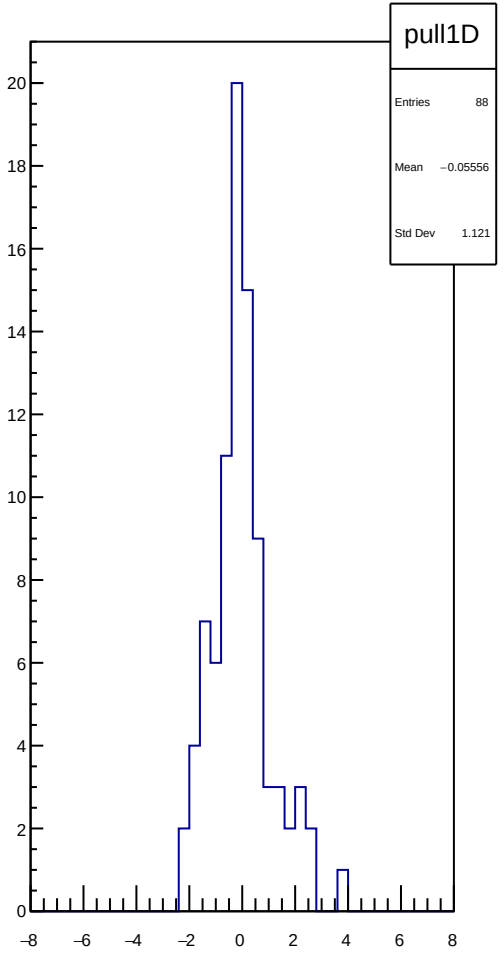

pull1D
Entries 88
Mean 0.0008636
Std Dev 0.684

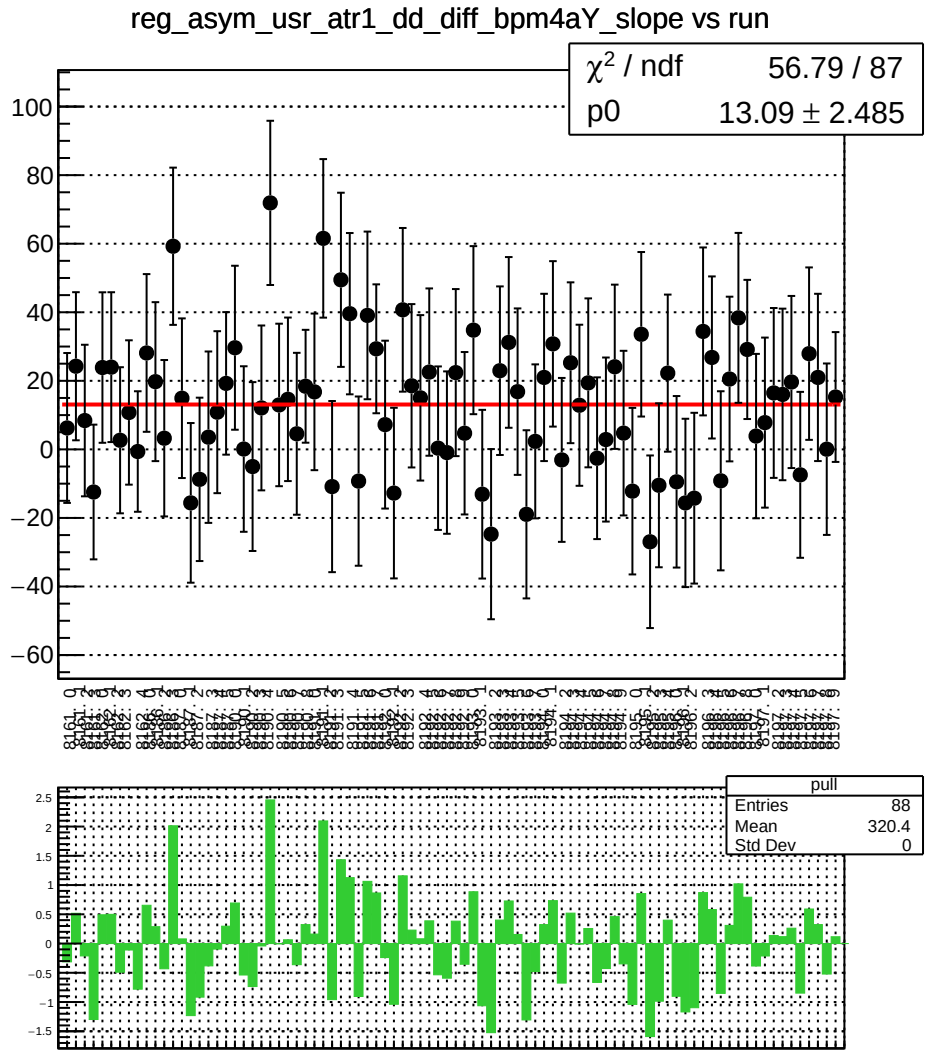

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.94 / 87
p0 −1.987 ± 4.738
pull
Entries 88
Mean −9.378
Std Dev 107

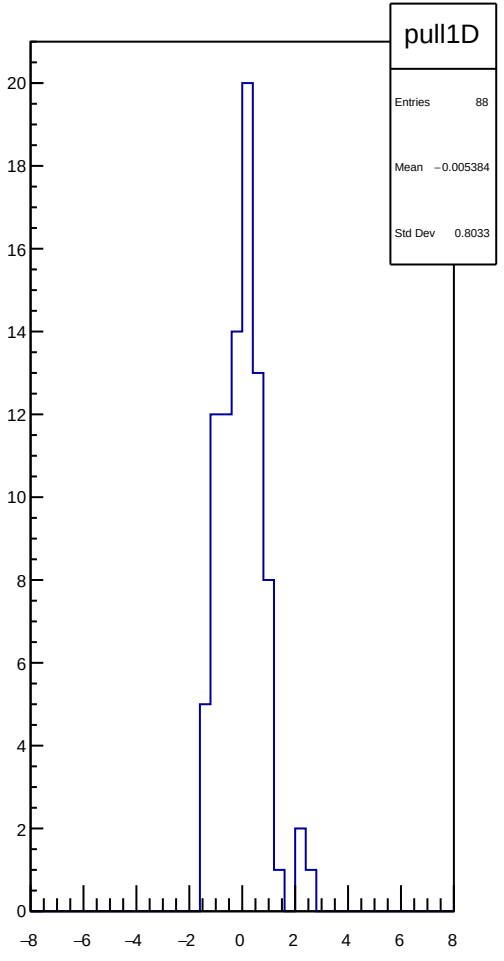

pull1D
Entries 88
Mean −0.003713
Std Dev 0.6391

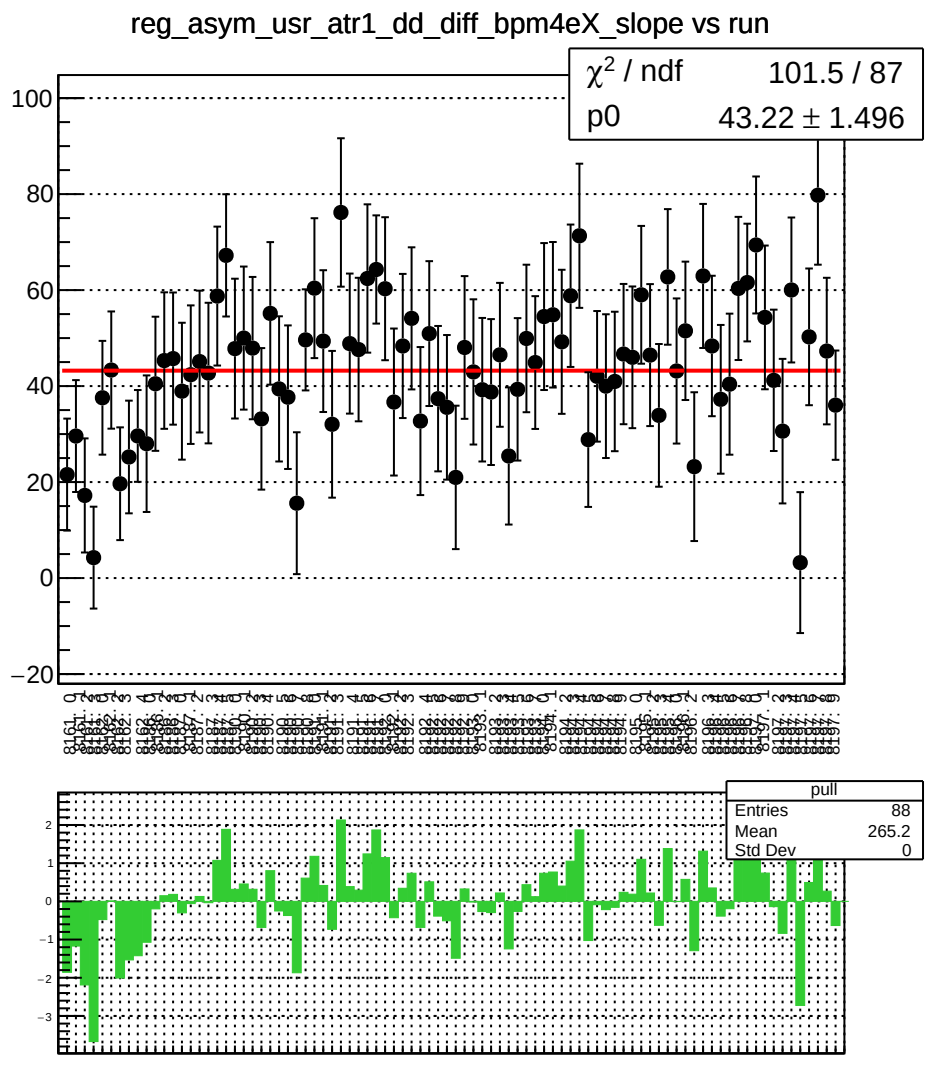

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 413.5 / 87
p0 −50.95 ± 0.2139
pull
Entries 88
Mean −409.8
Std Dev 0
pull1D
Entries 88
Mean −0.07248
Std Dev 2.166

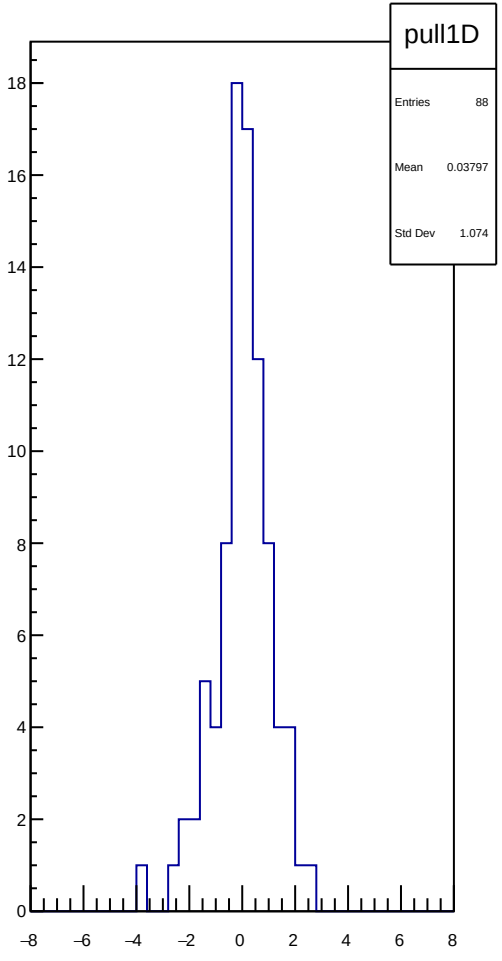

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 110.9 / 87
p0 14.99 ± 1.496
pull
Entries 88
Mean 223.2
Std Dev 0

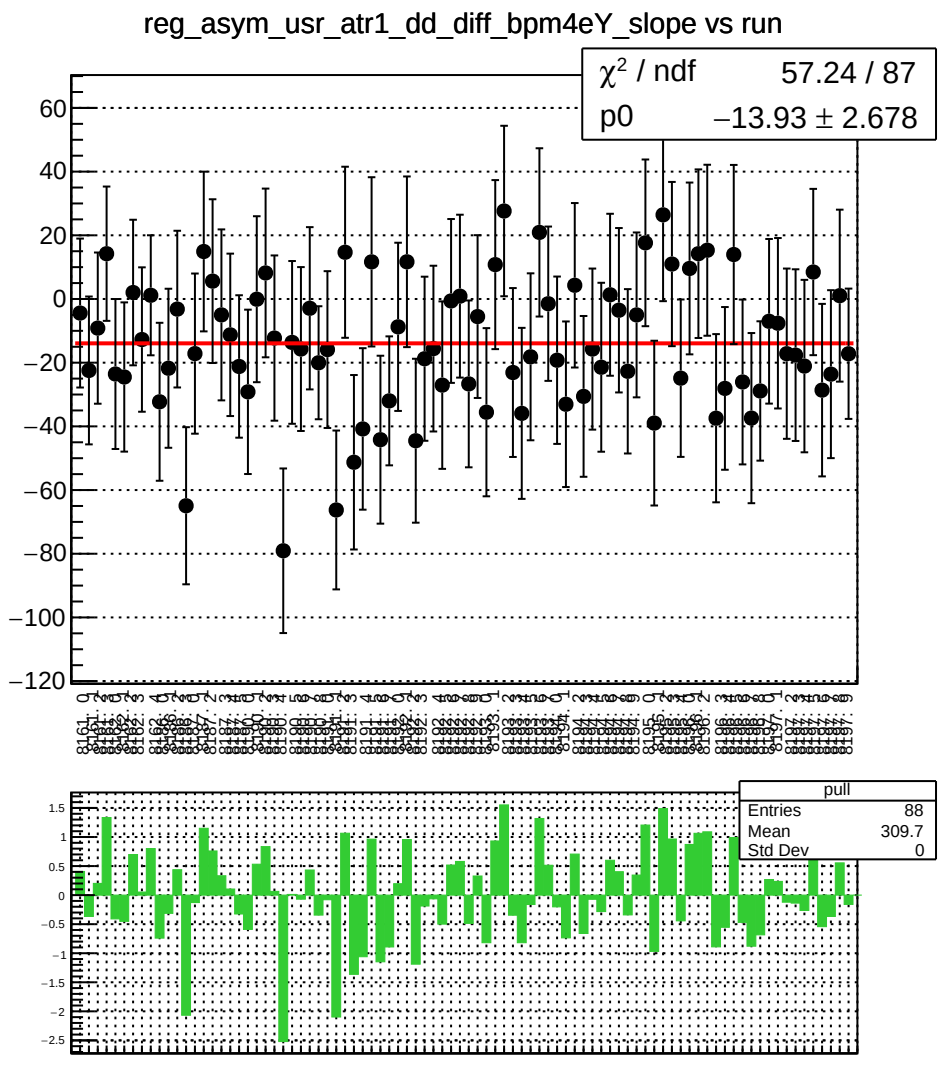

pull1D
Entries 88
Mean −0.05556
Std Dev 1.121

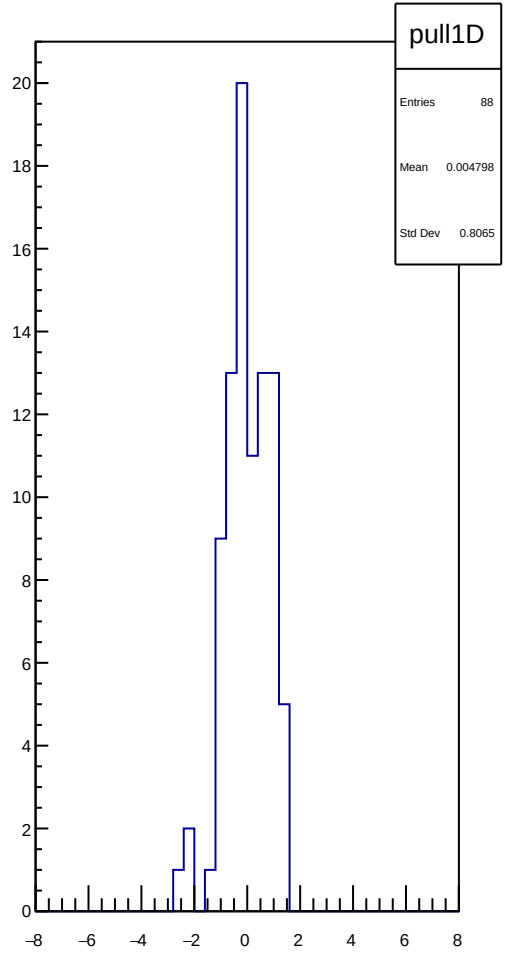

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.79 / 87
p0 13.09 ± 2.485
pull
Entries 88
Mean 320.4
Std Dev 0

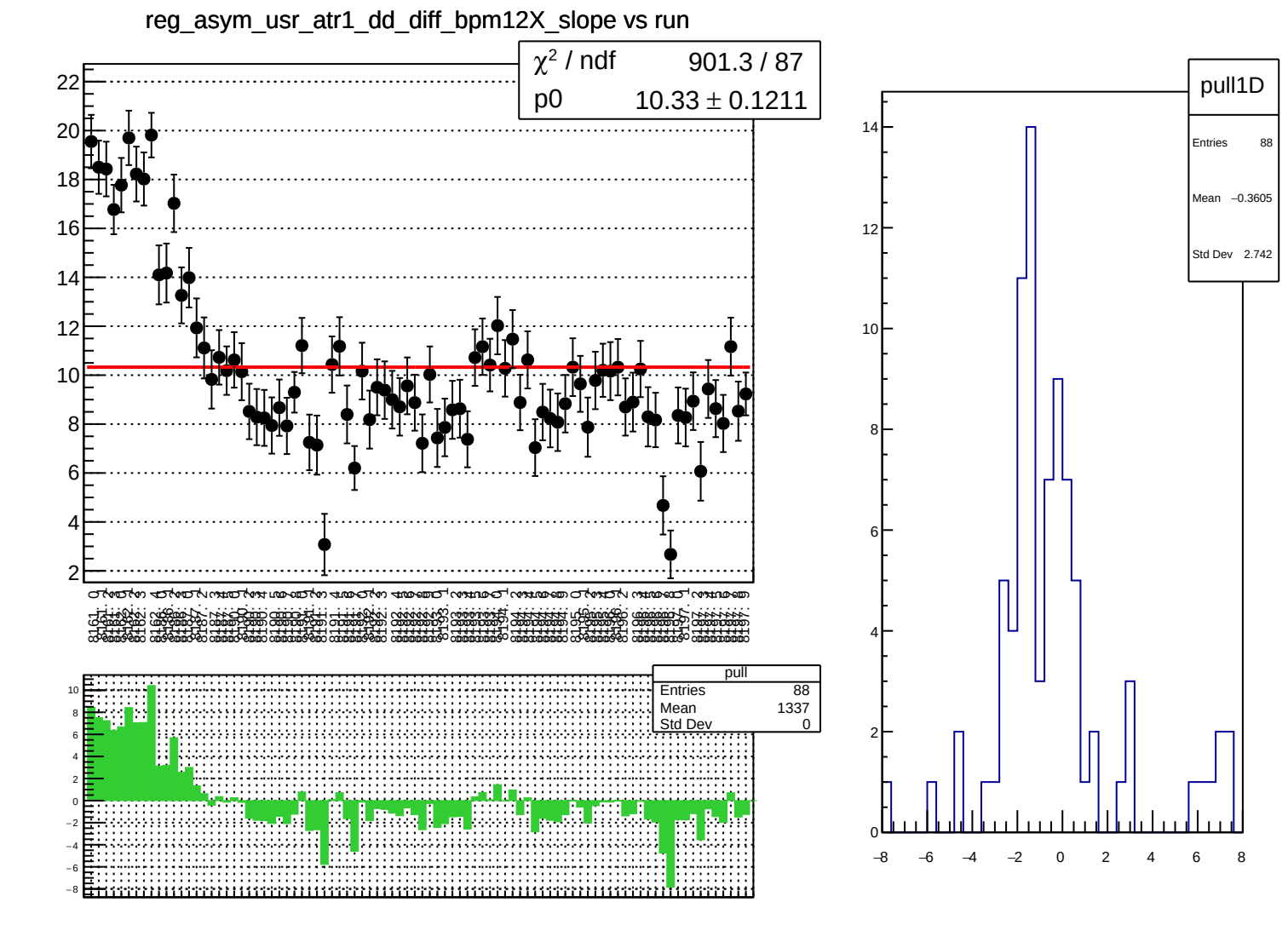

pull1D
Entries 88
Mean −0.005384
Std Dev 0.8033

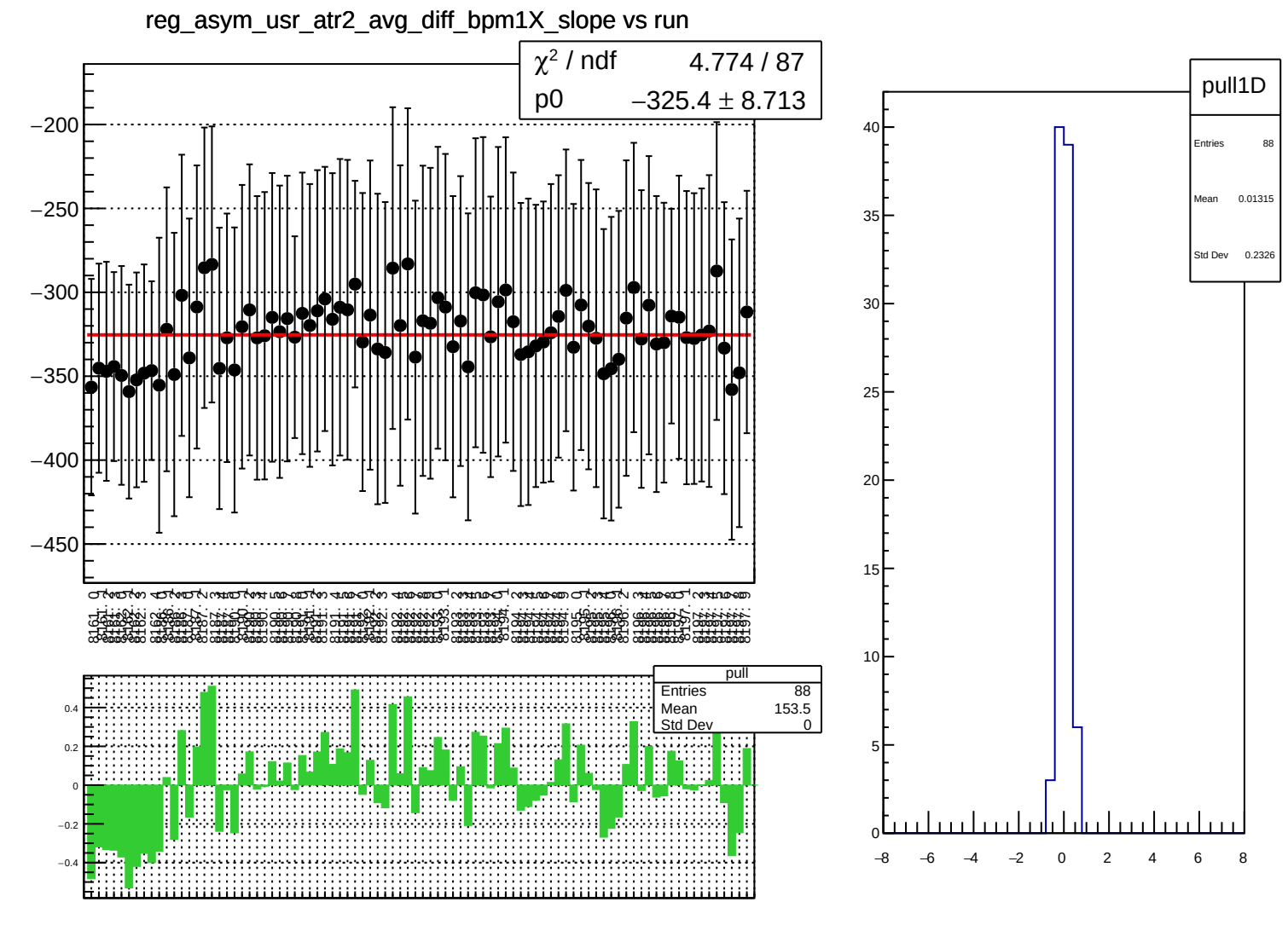

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 101.5 / 87
p0 43.22 ± 1.496
pull
Entries 88
Mean 265.2
Std Dev 0

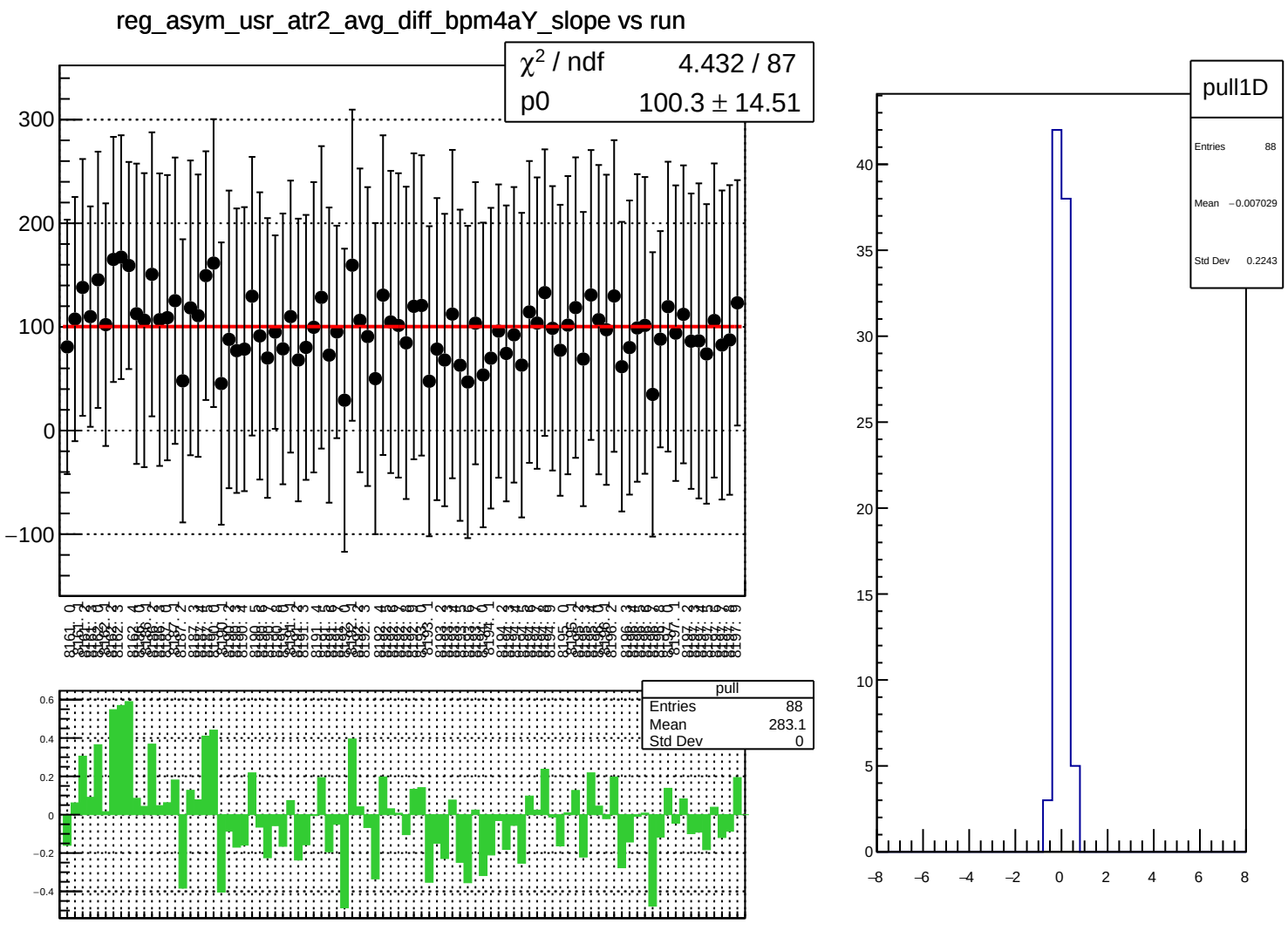

pull1D
Entries 88
Mean 0.03797
Std Dev 1.074

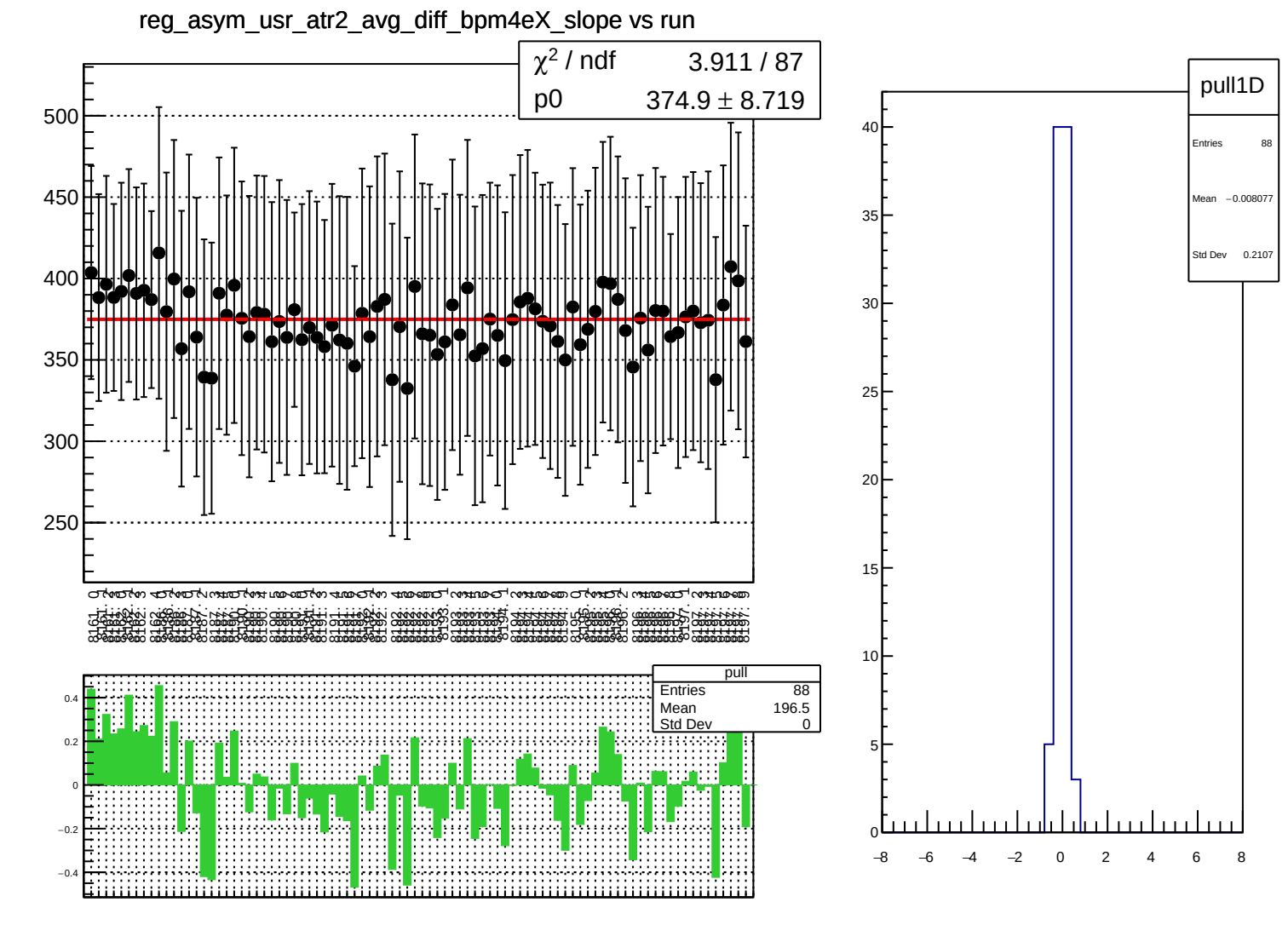

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.24 / 87
p0 −13.93 ± 2.678
pull
Entries 88
Mean 309.7
Std Dev 0

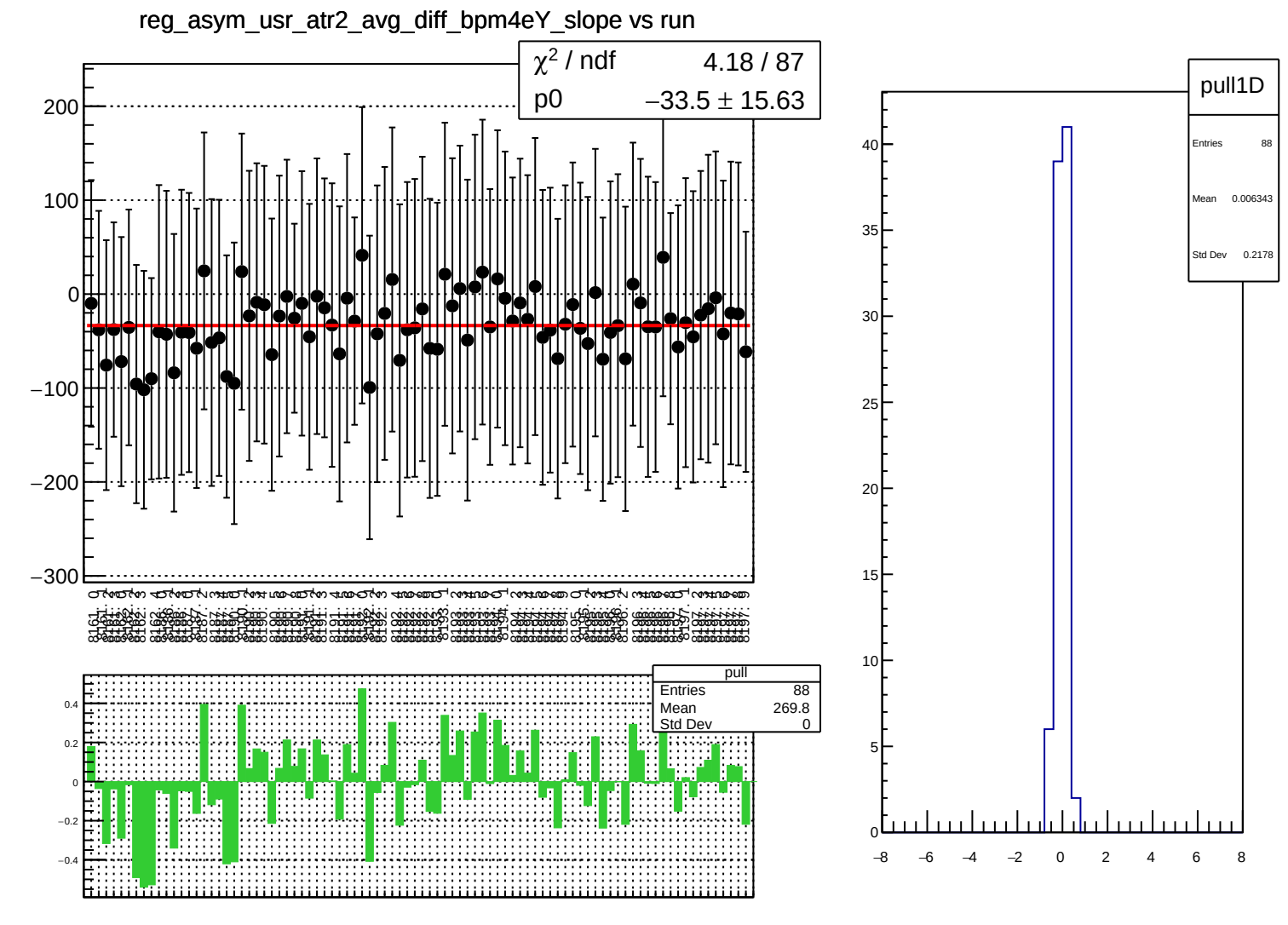

pull1D
Entries 88
Mean 0.004798
Std Dev 0.8065

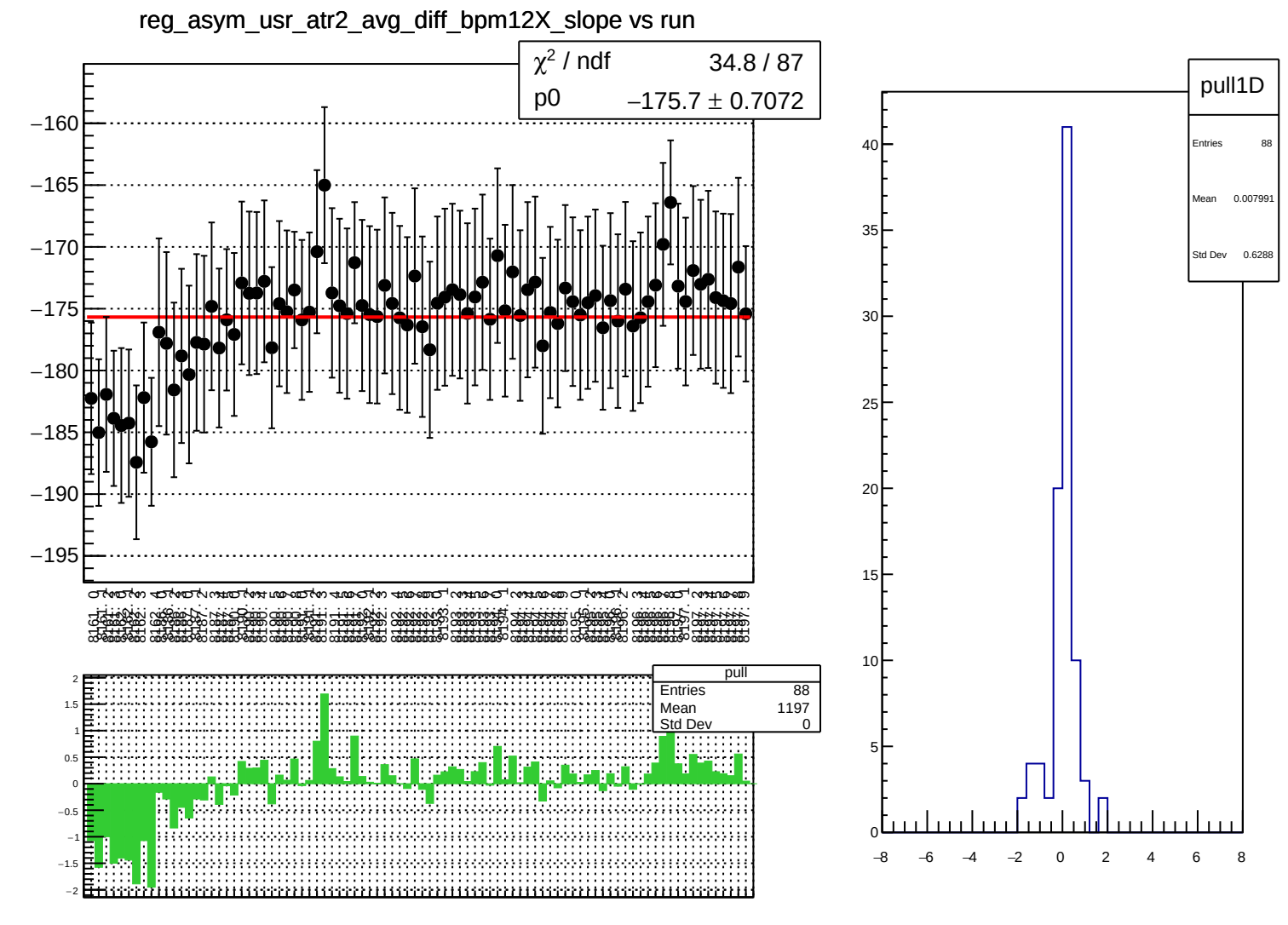

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 901.3 / 87
p0 10.33 ± 0.1211
pull
Entries 88
Mean 1337
Std Dev 0
pull1D
Entries 88
Mean −0.3605
Std Dev 2.742

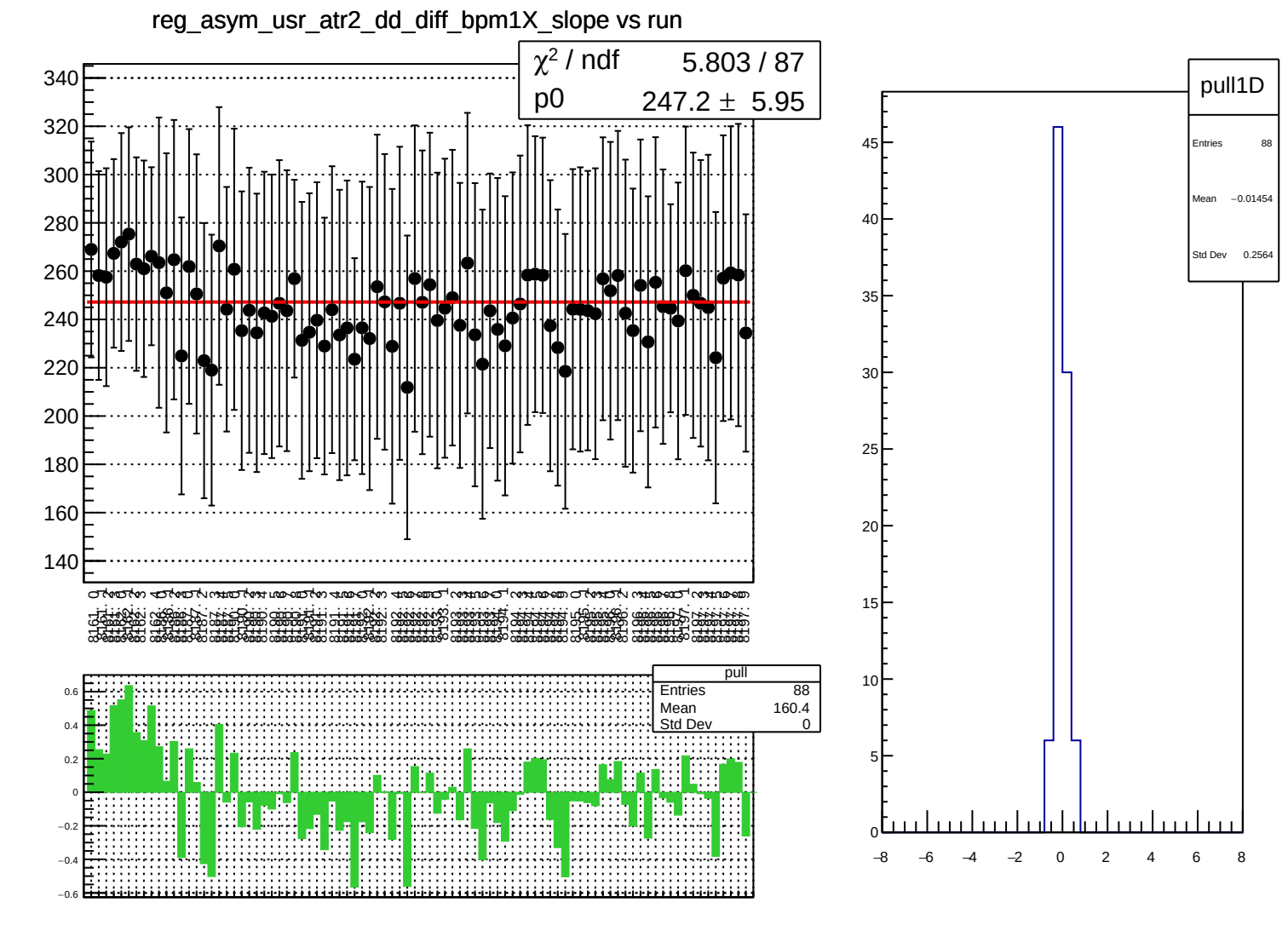

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.774 / 87
p0 −325.4 ± 8.713
−200
−250
−300
−350
−400
−450
pull
Entries 88
Mean 153.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean 0.01315
Std Dev 0.2326
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

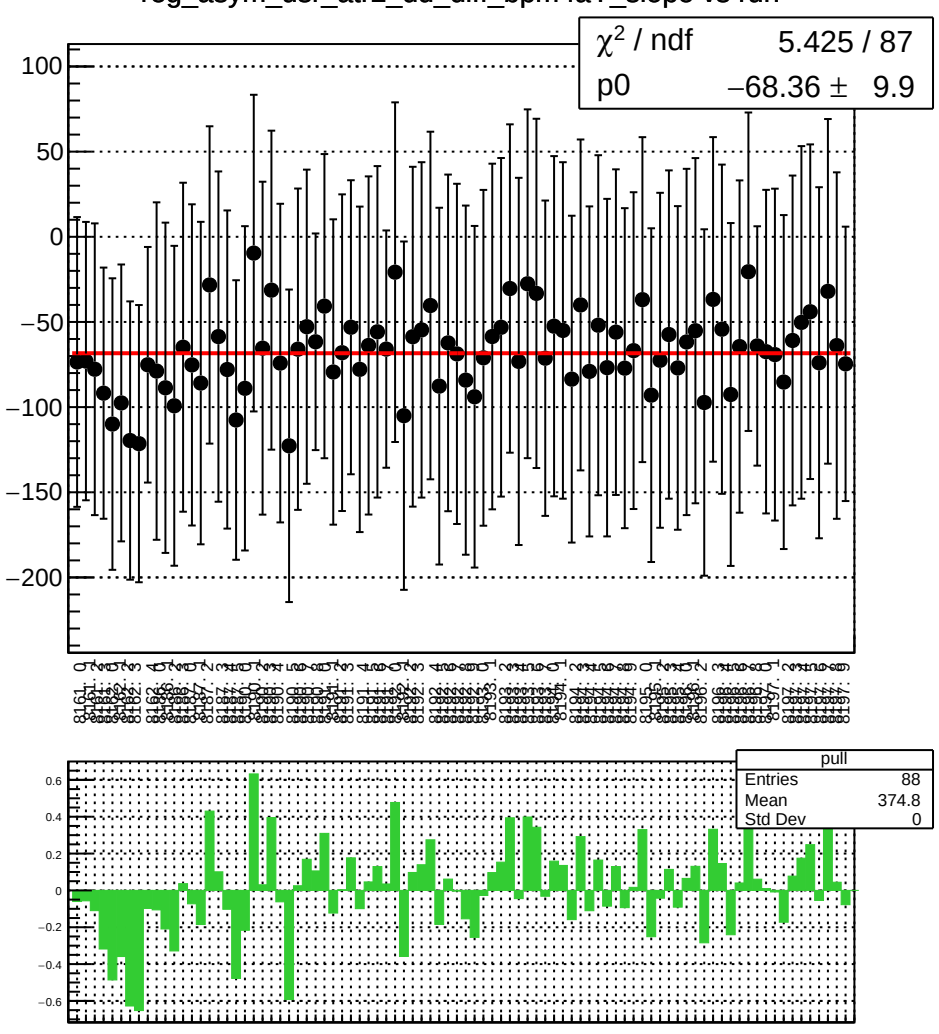

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.432 / 87
p0 100.3 ± 14.51
300
200
100
0
−100
pull
Entries 88
Mean 283.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.007029
Std Dev 0.2243
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

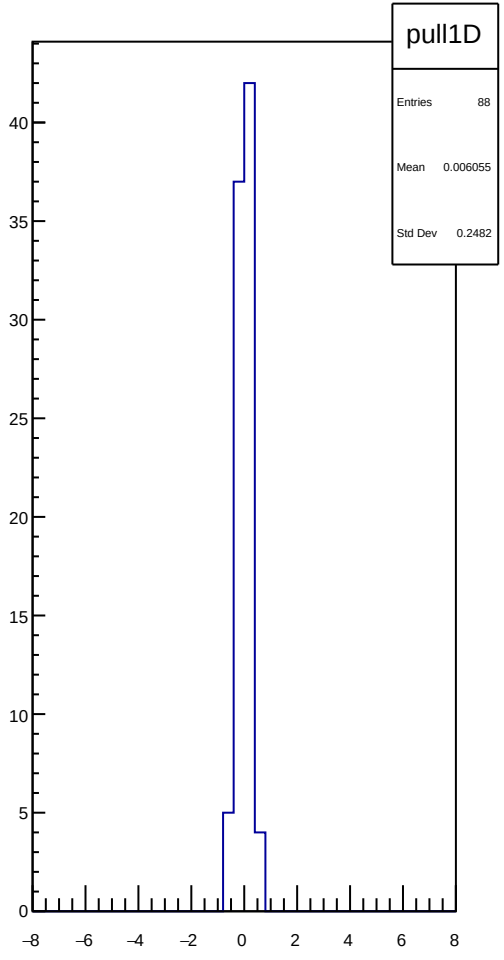

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.911 / 87
p0 374.9 ± 8.719
500
450
400
350
300
250
pull
Entries 88
Mean 196.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.008077
Std Dev 0.2107
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

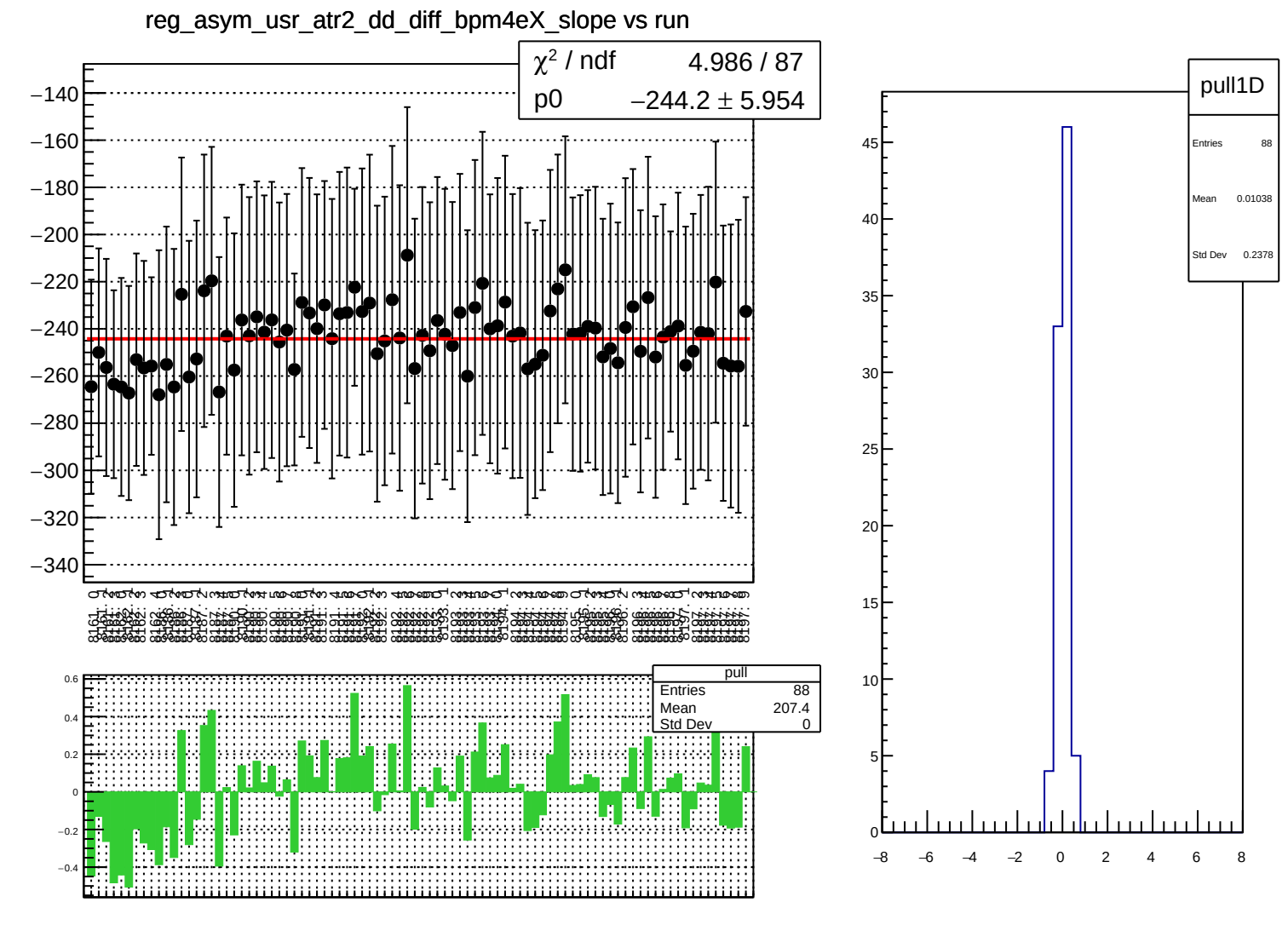

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.18 / 87
p0 −33.5 ± 15.63
pull
Entries 88
Mean 269.8
Std Dev 0
pull1D
Entries 88
Mean 0.006343
Std Dev 0.2178

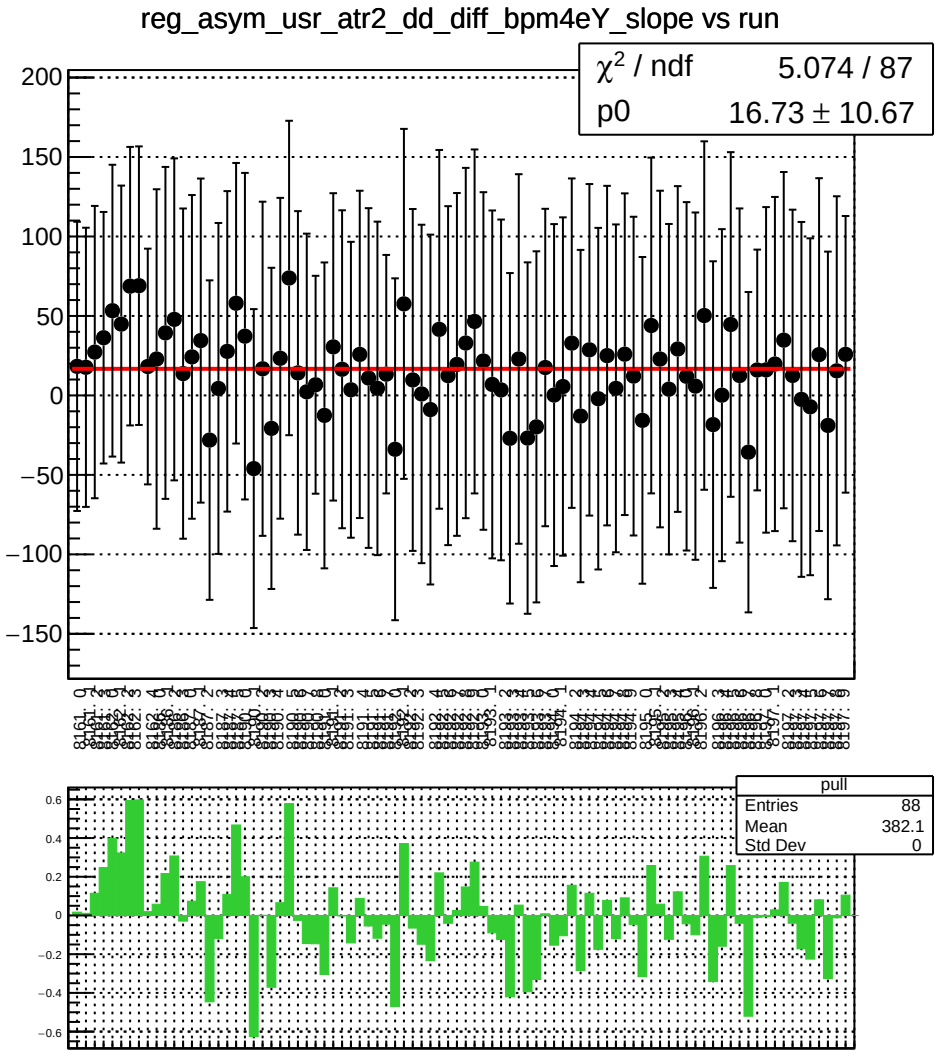

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 34.8 / 87
p0 −175.7 ± 0.7072
pull
Entries 88
Mean 1197
Std Dev 0
pull1D
Entries 88
Mean 0.007991
Std Dev 0.6288

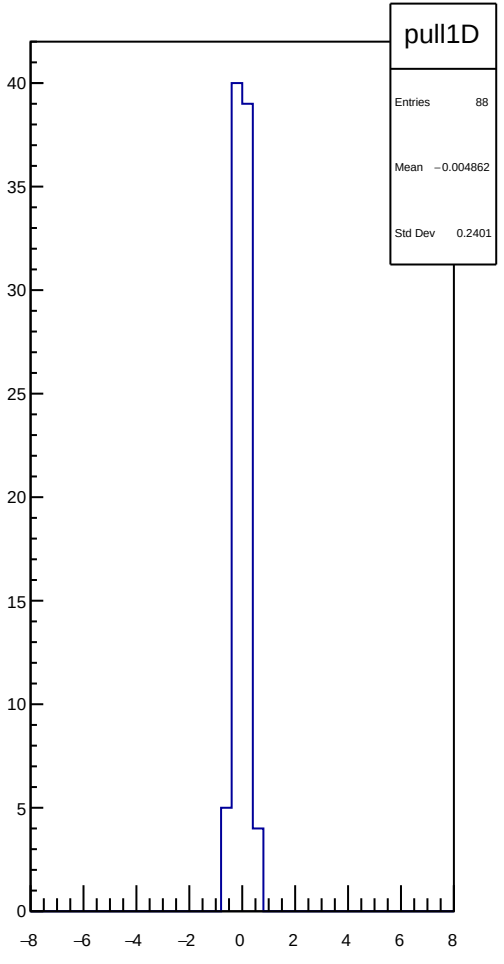

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.803 / 87
p0 247.2 ± 5.95
pull
Entries 88
Mean 160.4
Std Dev 0
pull1D
Entries 88
Mean −0.01454
Std Dev 0.2564

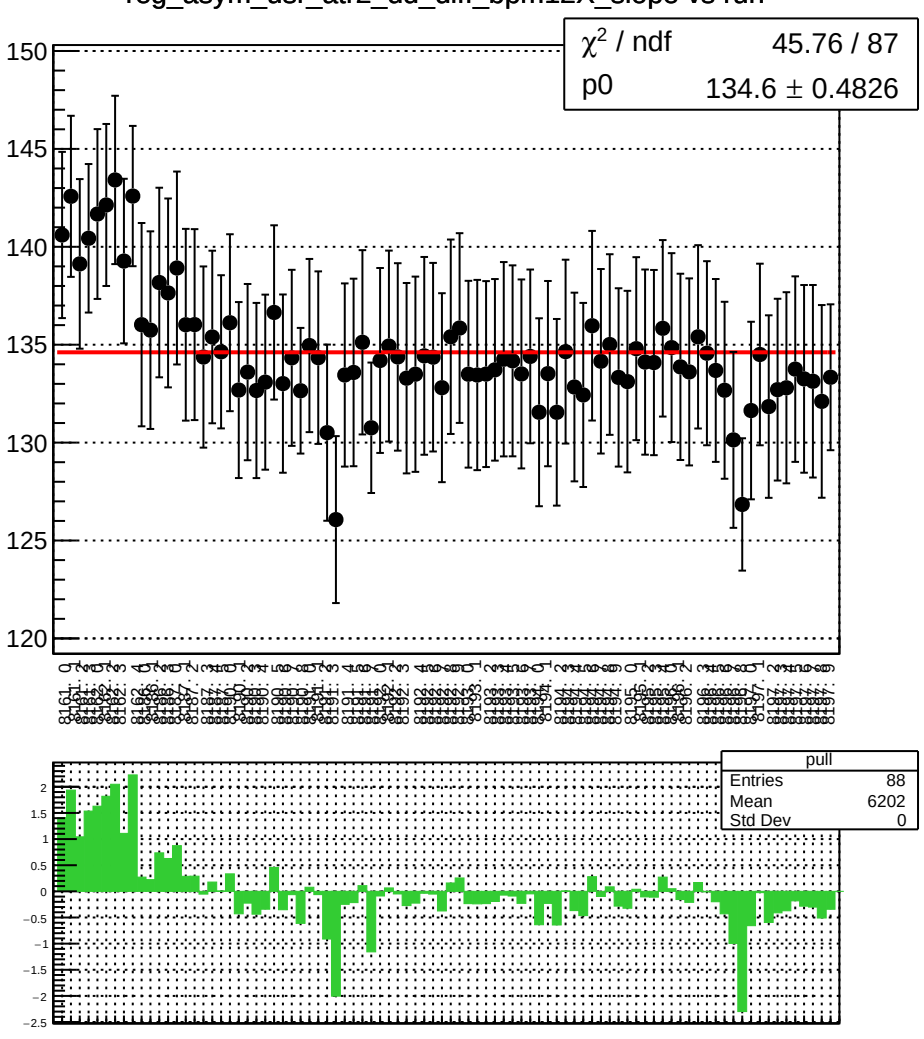

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.425 / 87
p0 −68.36 ± 9.9
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 374.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

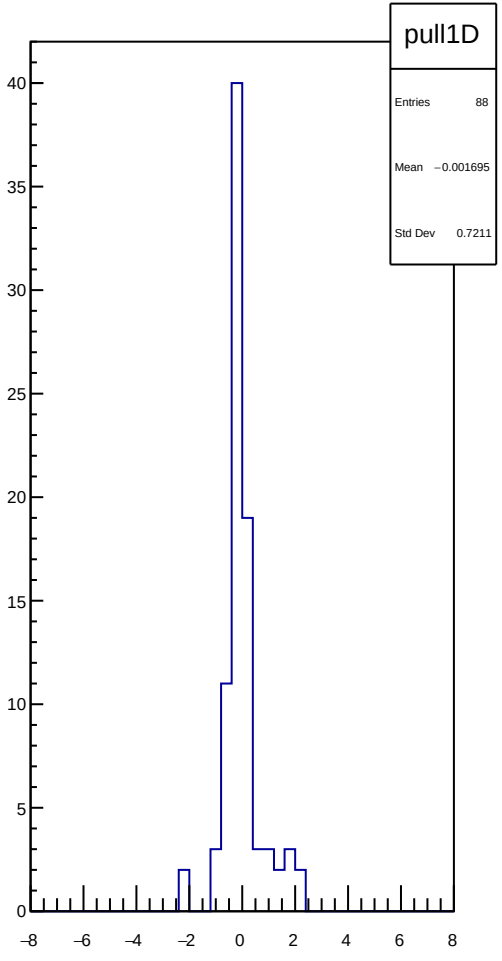

pull1D
Entries 88
Mean 0.006055
Std Dev 0.2482
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

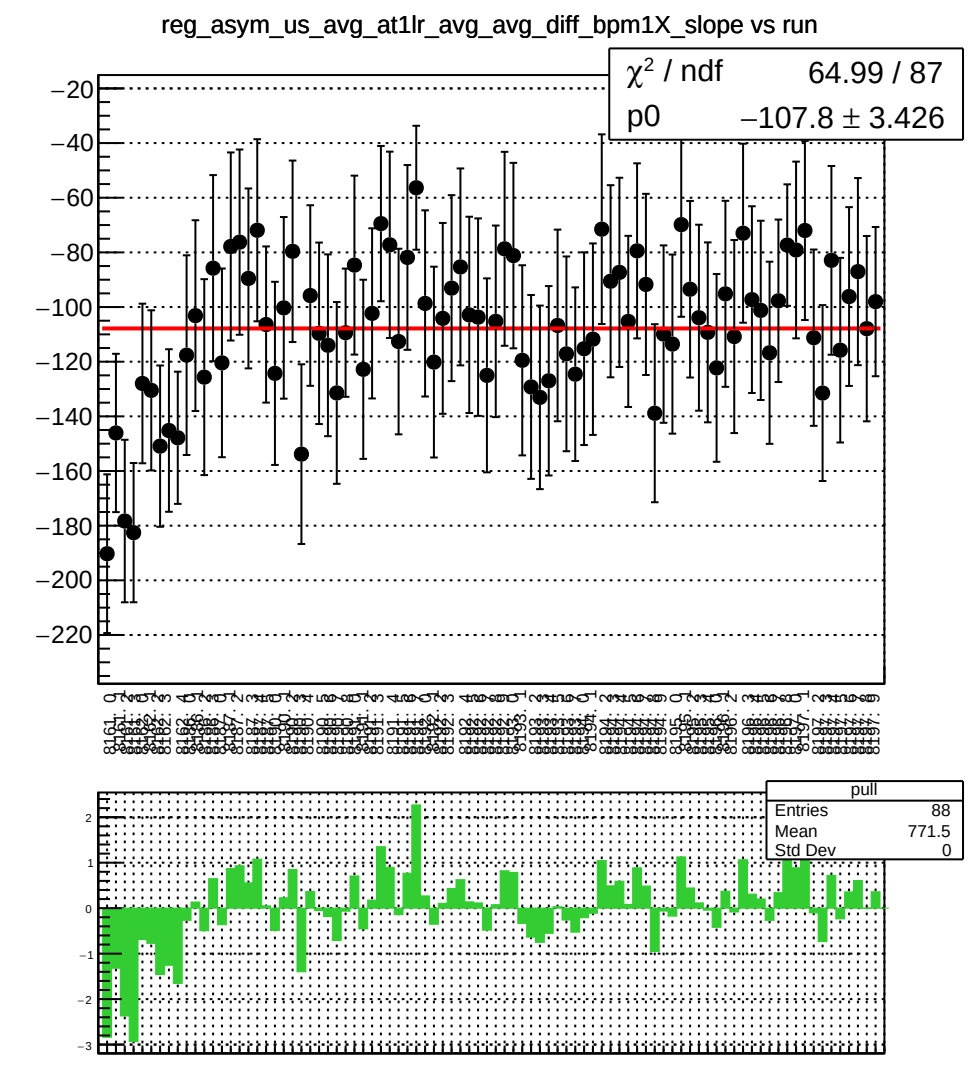

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.986 / 87
p0 −244.2 ± 5.954
pull
Entries 88
Mean 207.4
Std Dev 0
pull1D
Entries 88
Mean 0.01038
Std Dev 0.2378

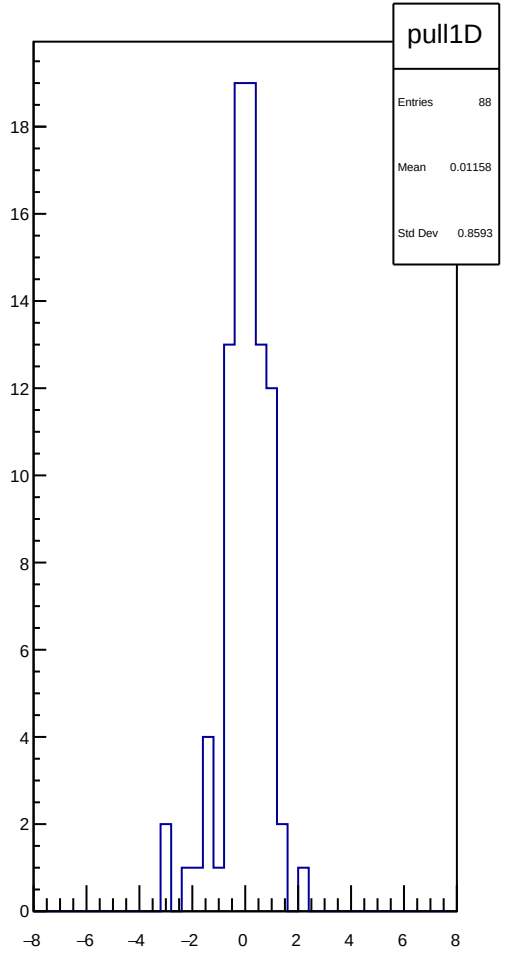

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.074 / 87
p0 16.73 ± 10.67
pull
Entries 88
Mean 382.1
Std Dev 0

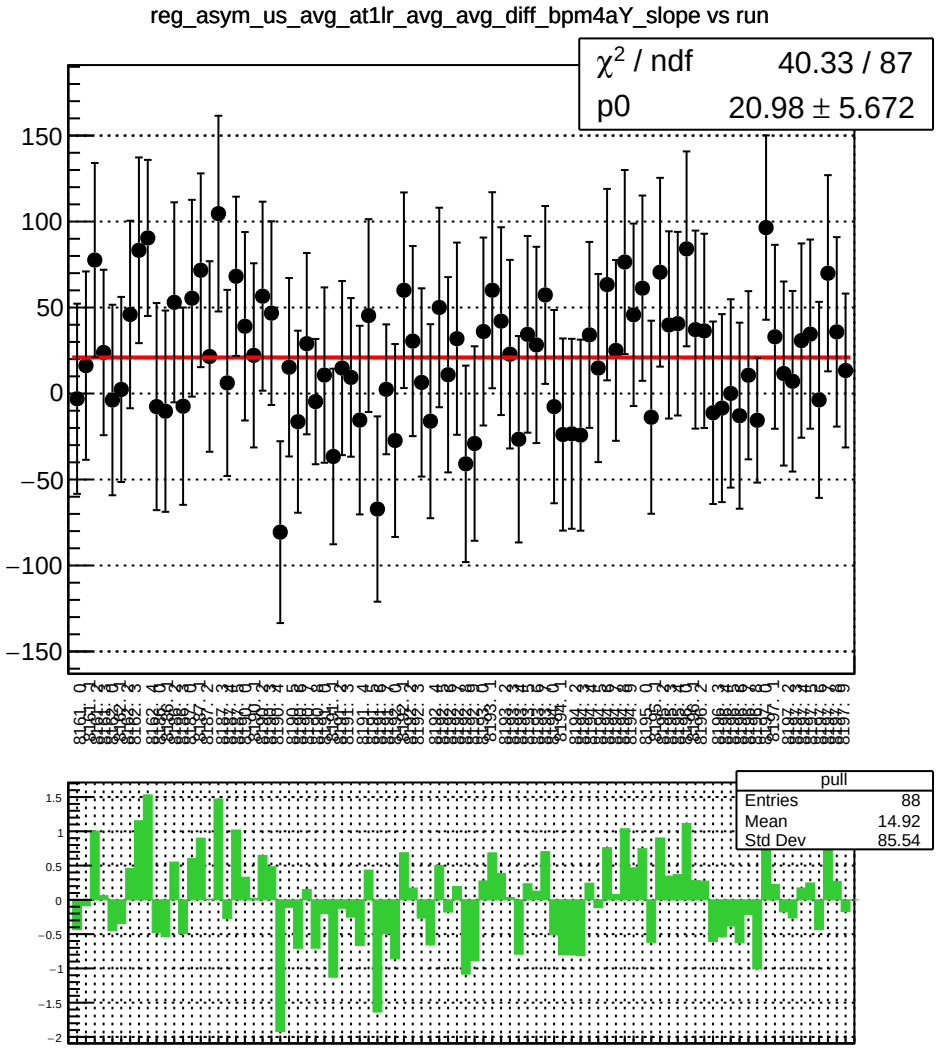

pull1D
Entries 88
Mean −0.004862
Std Dev 0.2401

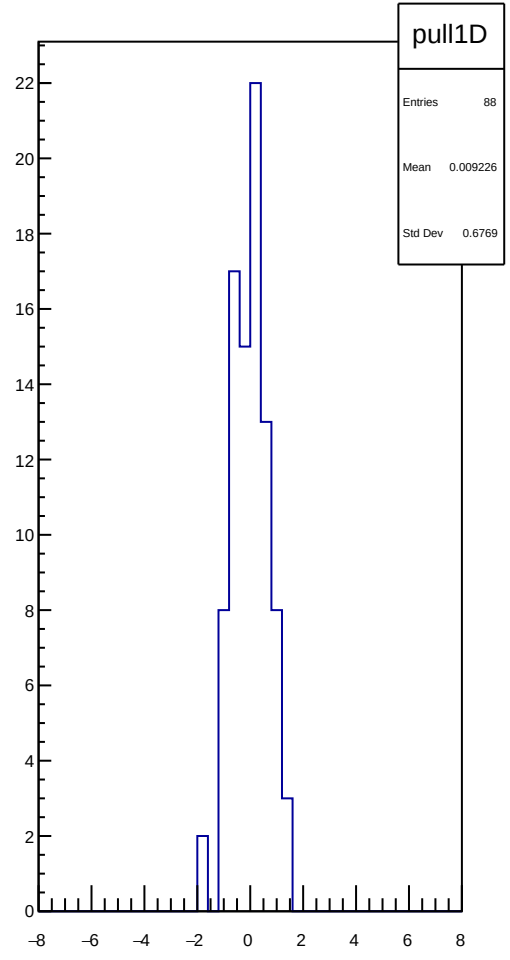

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 45.76 / 87
p0 134.6 ± 0.4826
150
145
140
135
130
125
120
pull
Entries 88
Mean 6202
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

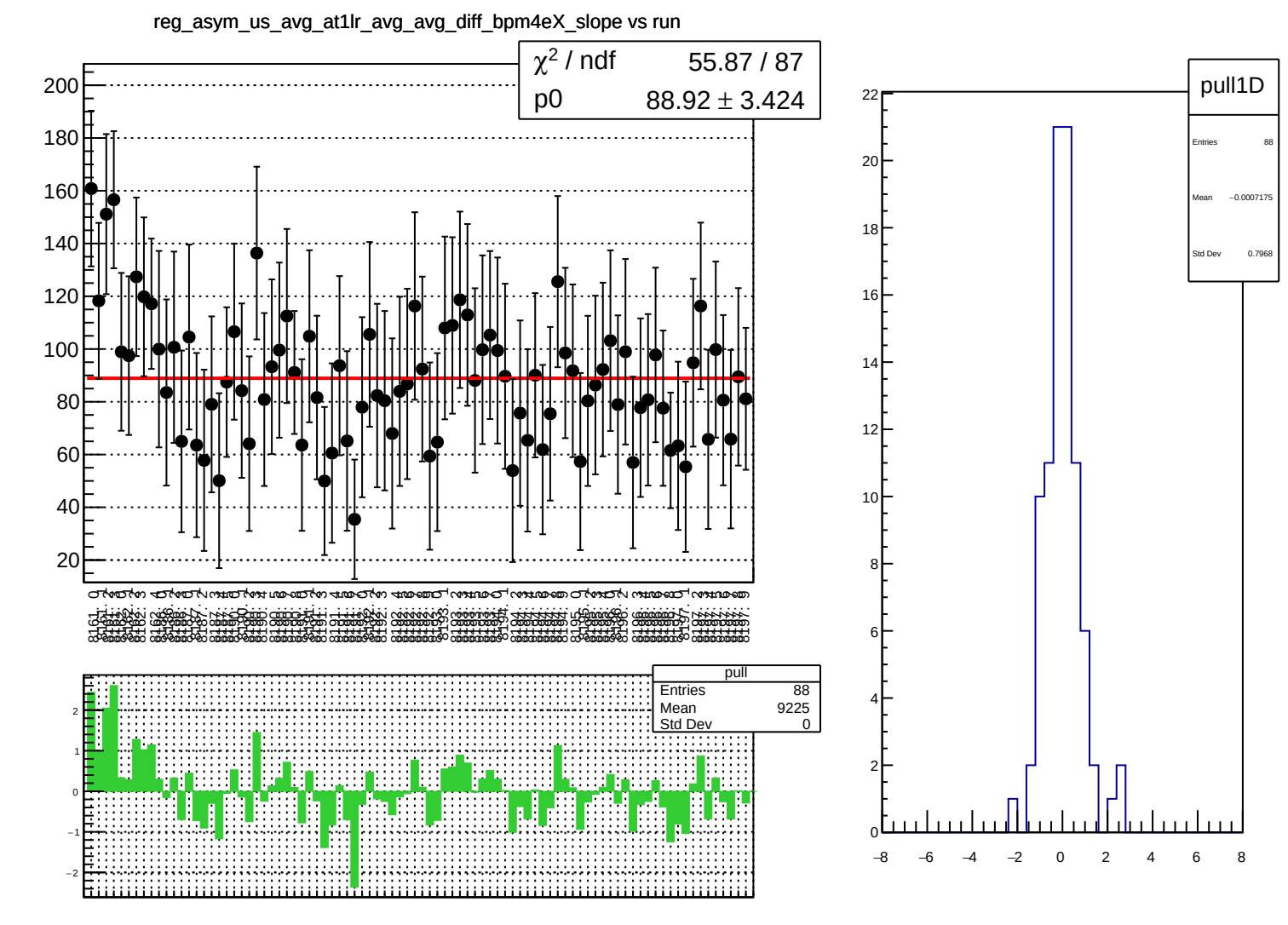

pull1D
Entries 88
Mean −0.001695
Std Dev 0.7211
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

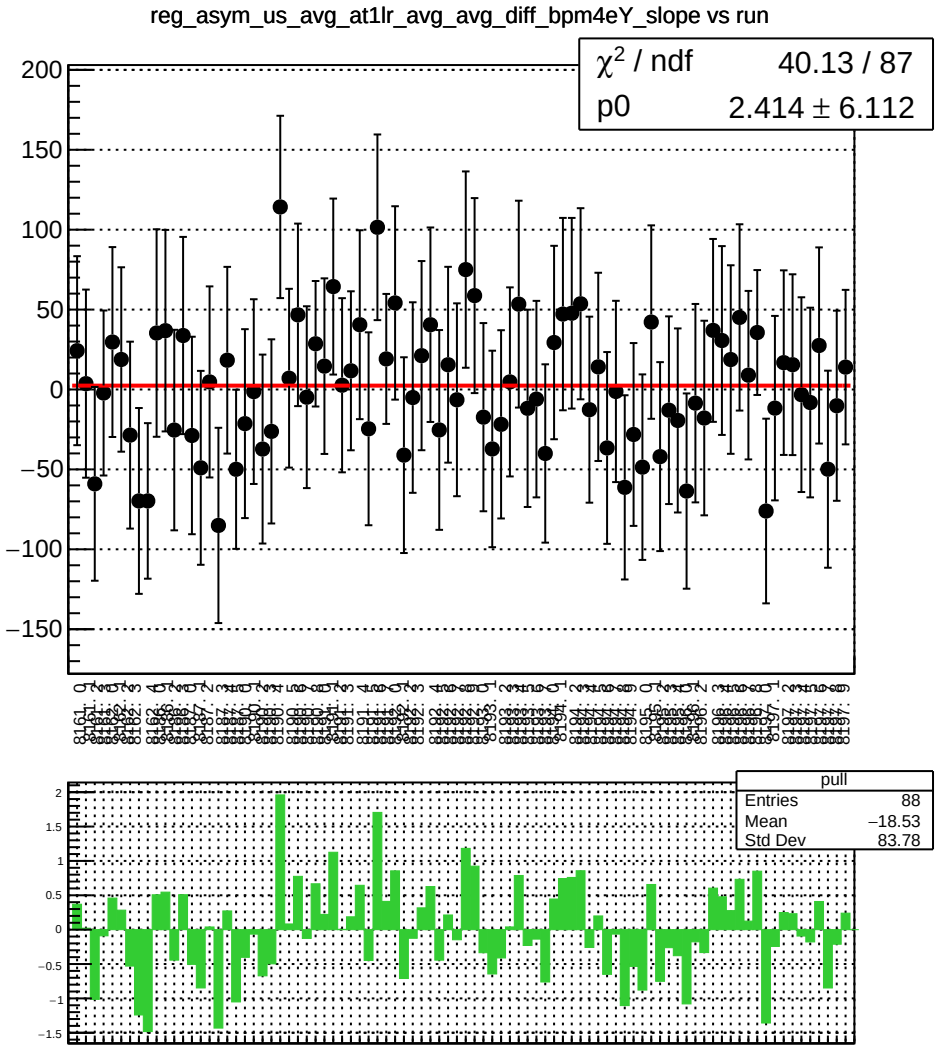

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 64.99 / 87
p0 −107.8 ± 3.426
pull
Entries 88
Mean 771.5
Std Dev 0

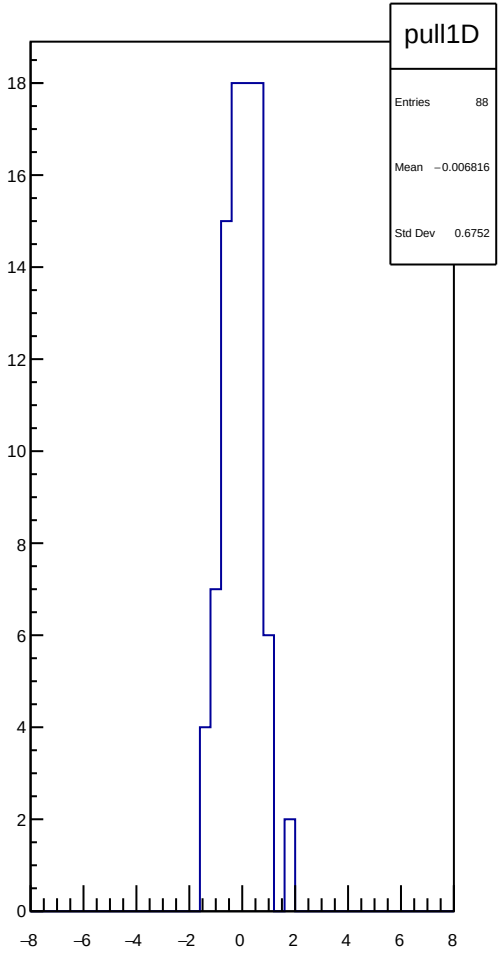

pull1D
Entries 88
Mean 0.01158
Std Dev 0.8593

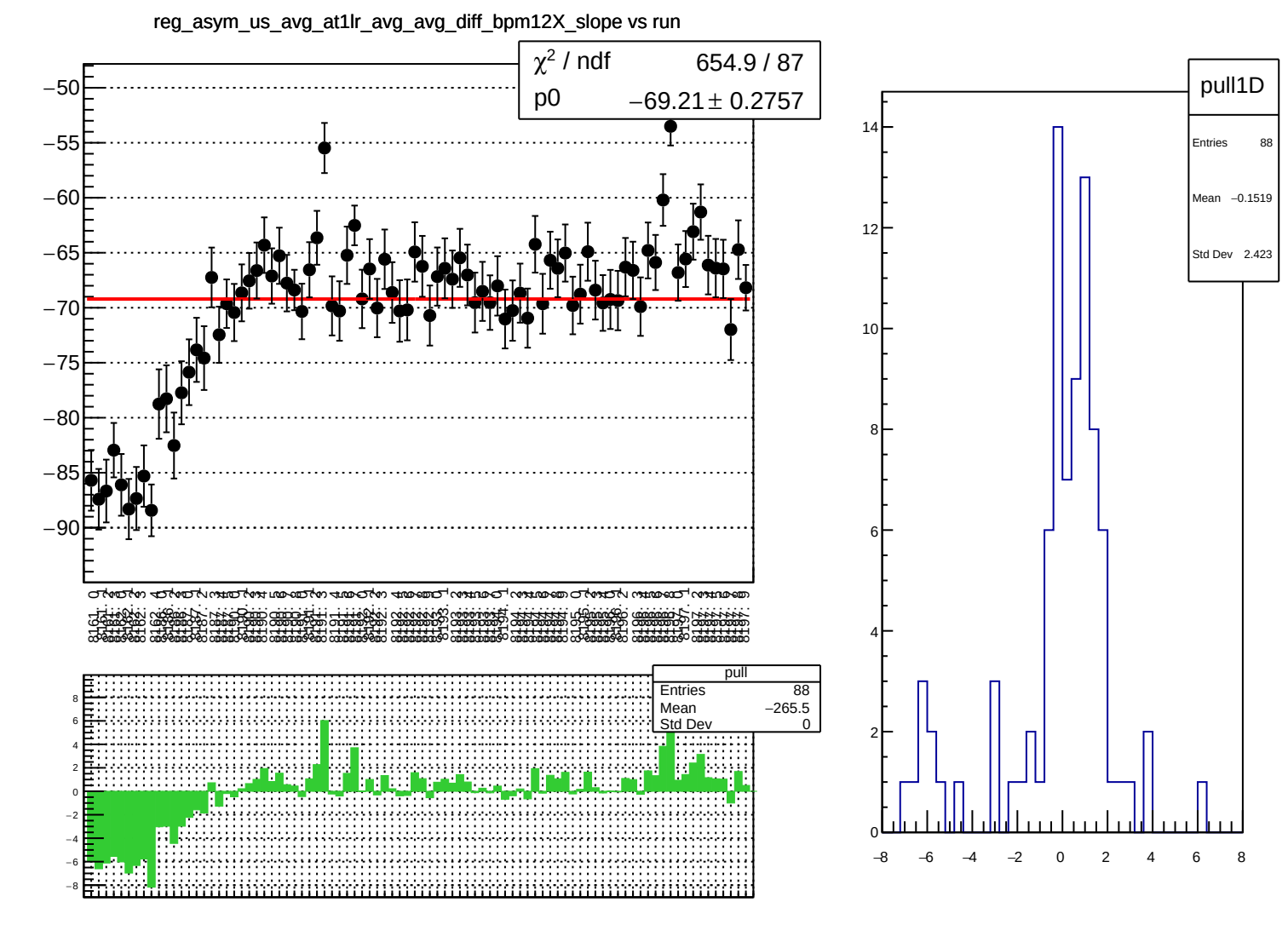

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.33 / 87
p0 20.98 ± 5.672
pull
Entries 88
Mean 14.92
Std Dev 85.54

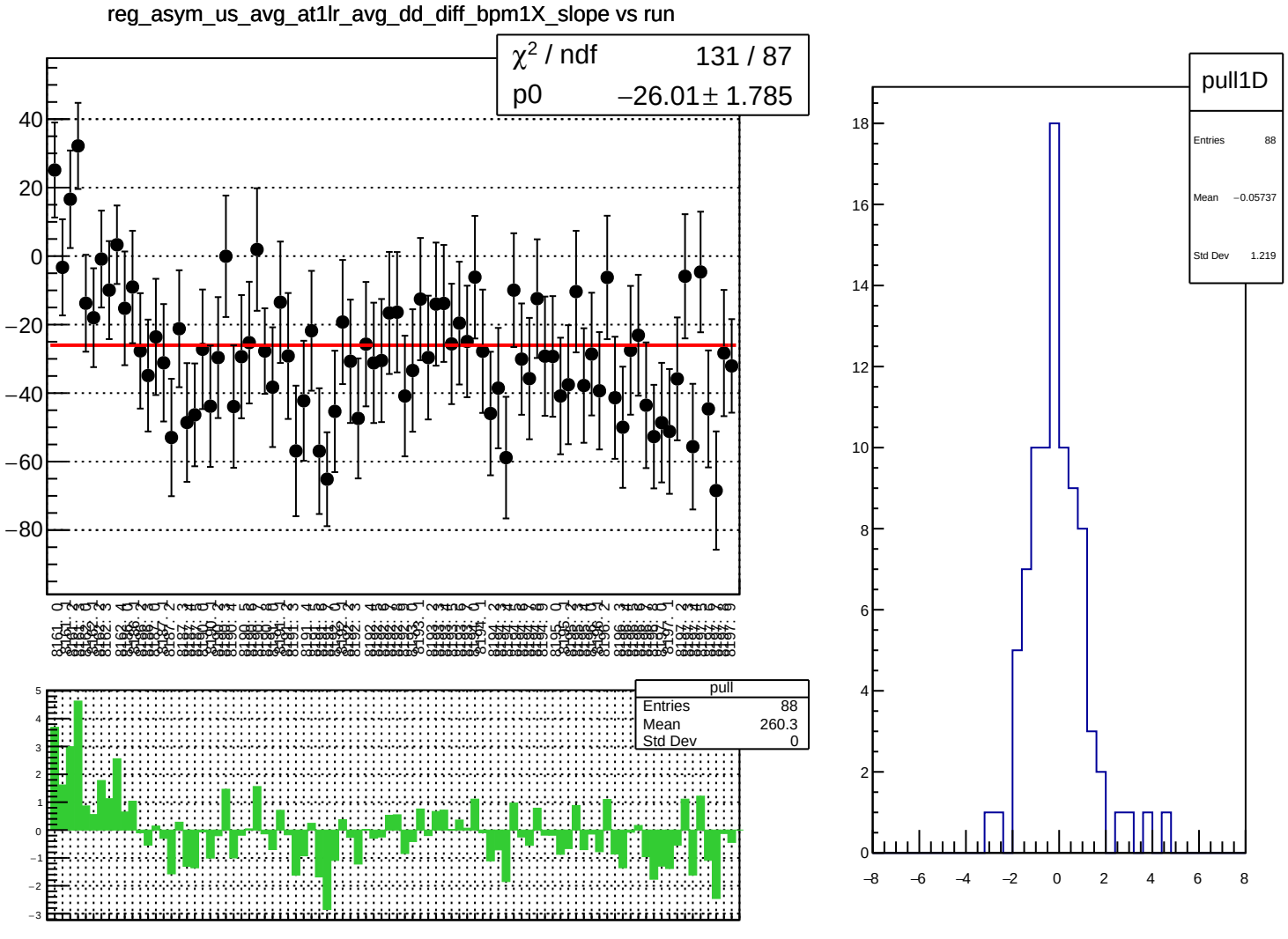

pull1D
Entries 88
Mean 0.009226
Std Dev 0.6769

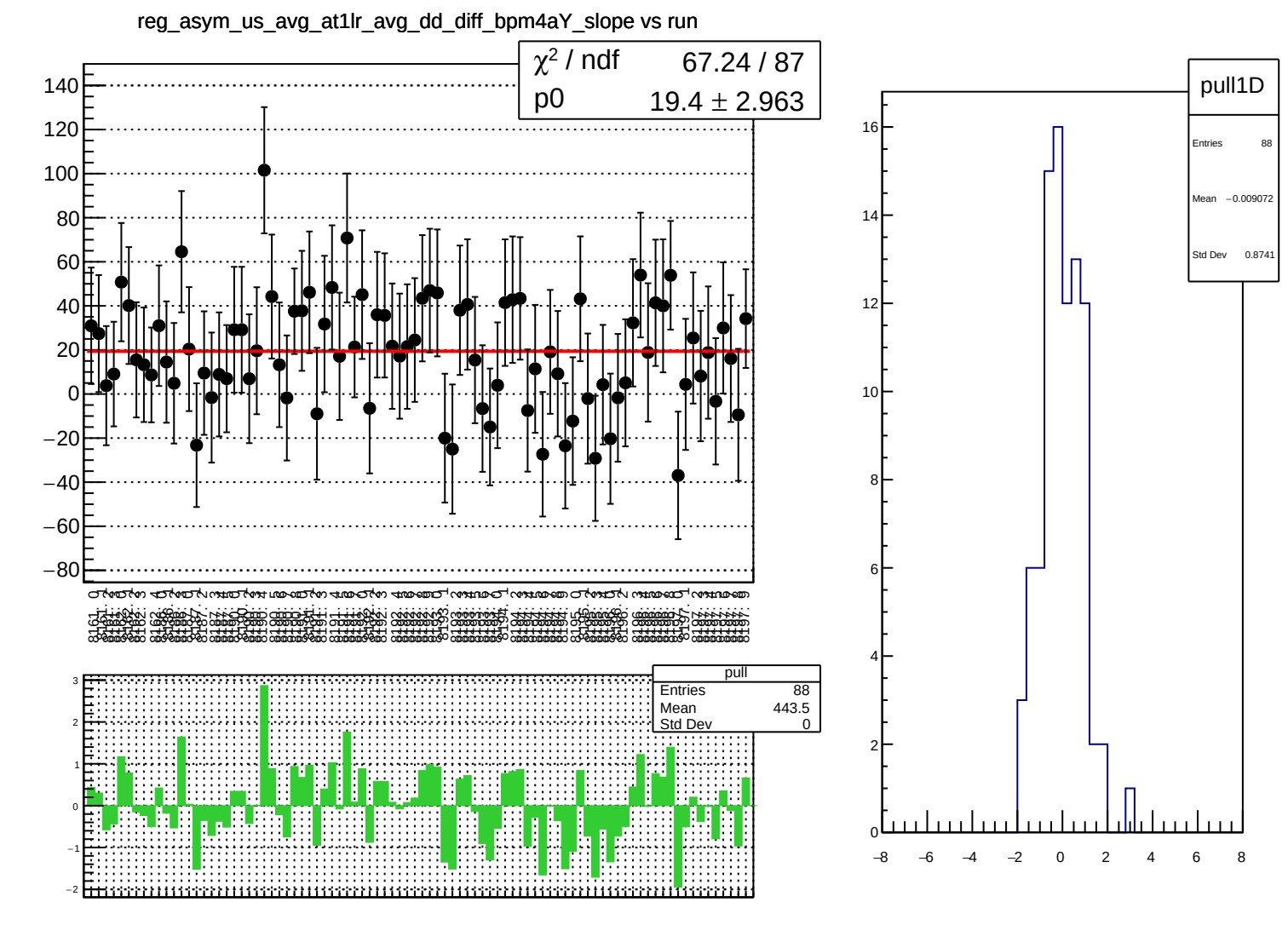

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.87 / 87
p0 88.92 ± 3.424
pull
Entries 88
Mean 9225
Std Dev 0
pull1D
Entries 88
Mean −0.0007175
Std Dev 0.7968

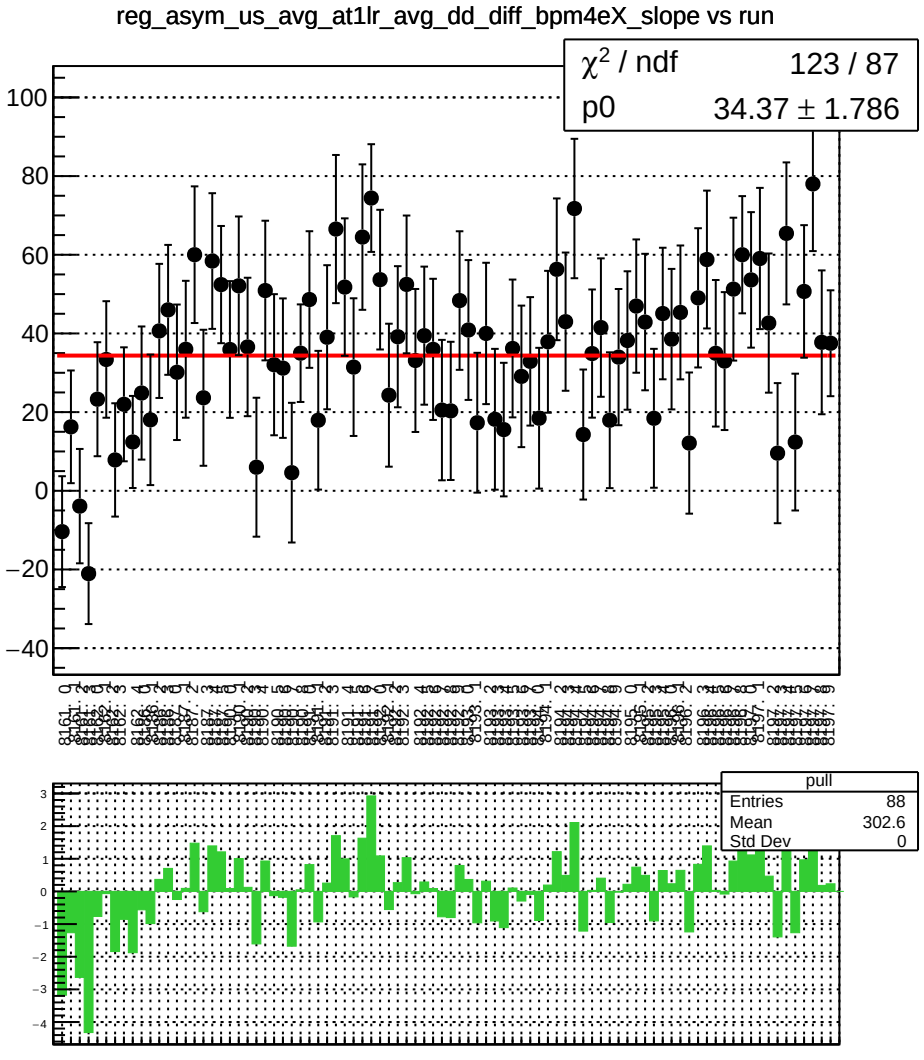

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.13 / 87
p0 2.414 ± 6.112
pull
Entries 88
Mean −18.53
Std Dev 83.78

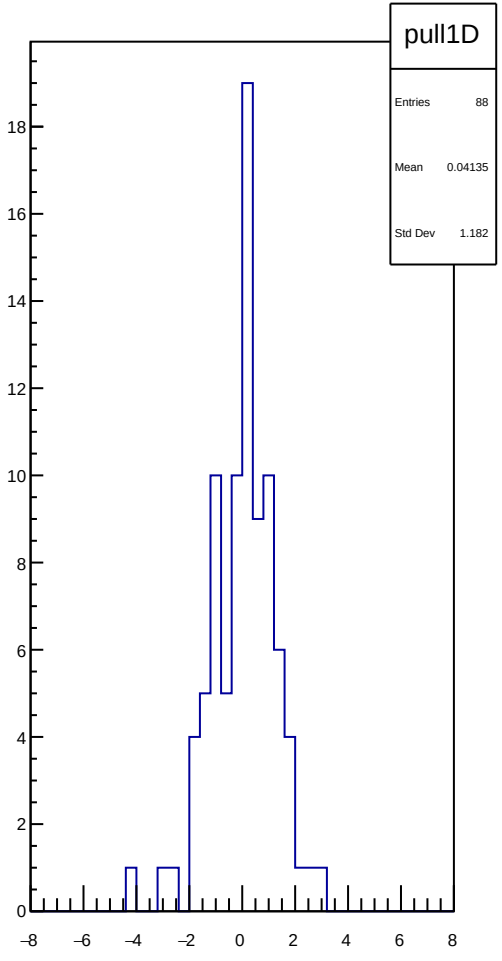

pull1D
Entries 88
Mean −0.006816
Std Dev 0.6752

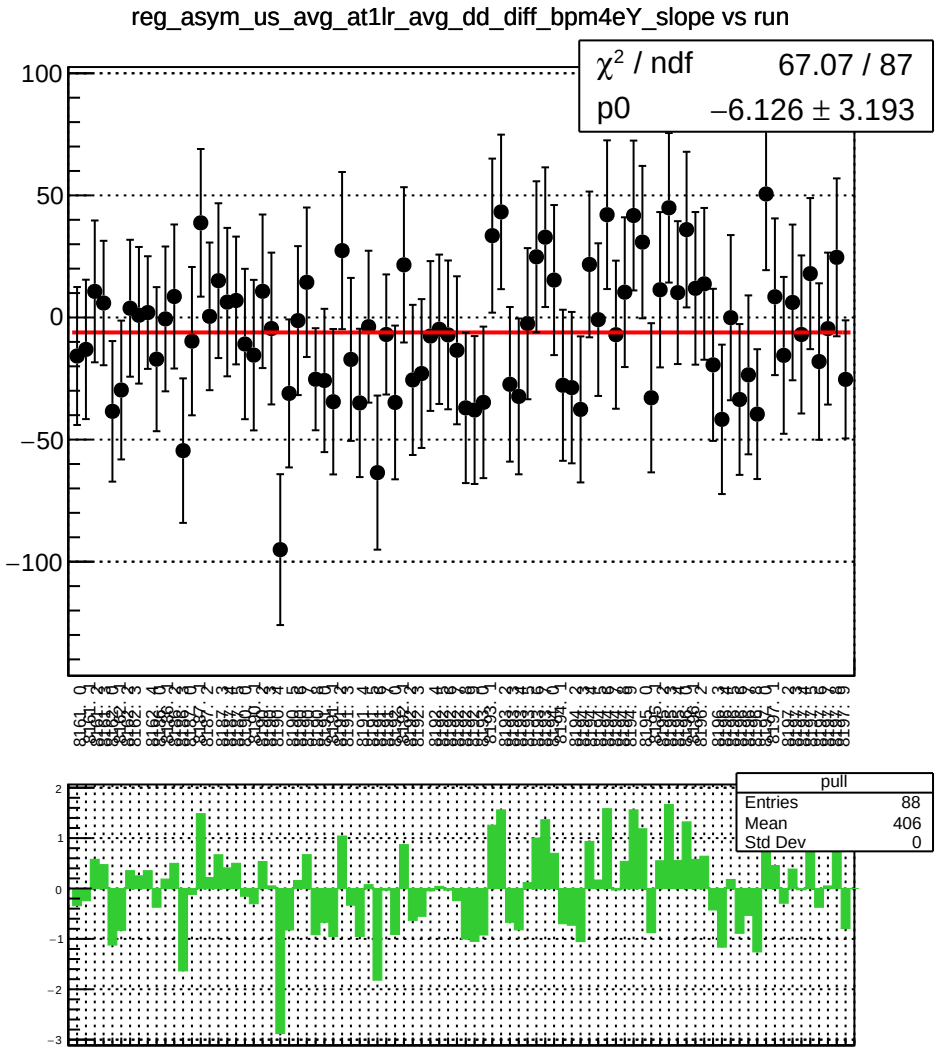

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 654.9 / 87
p0 −69.21 ± 0.2757
pull
Entries 88
Mean −265.5
Std Dev 0
pull1D
Entries 88
Mean −0.1519
Std Dev 2.423

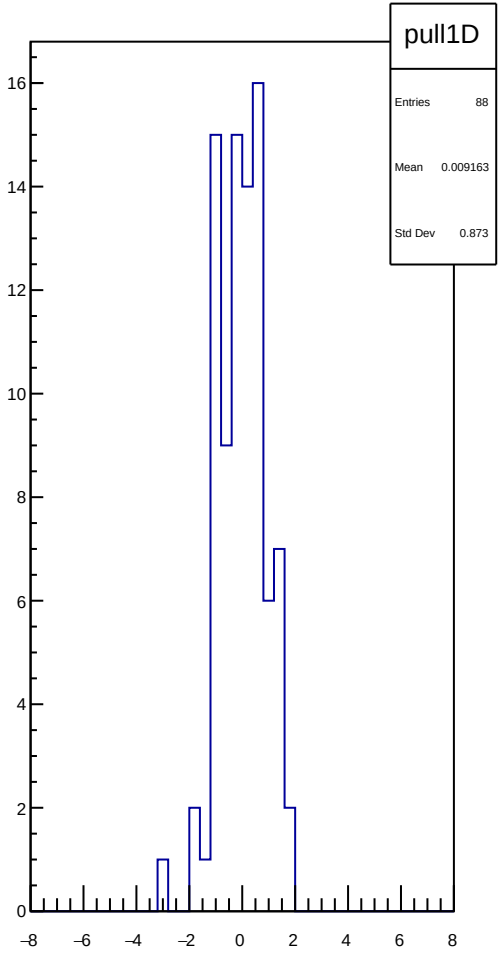

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 131 / 87
p0 −26.01 ± 1.785
pull
Entries 88
Mean 260.3
Std Dev 0
pull1D
Entries 88
Mean −0.05737
Std Dev 1.219

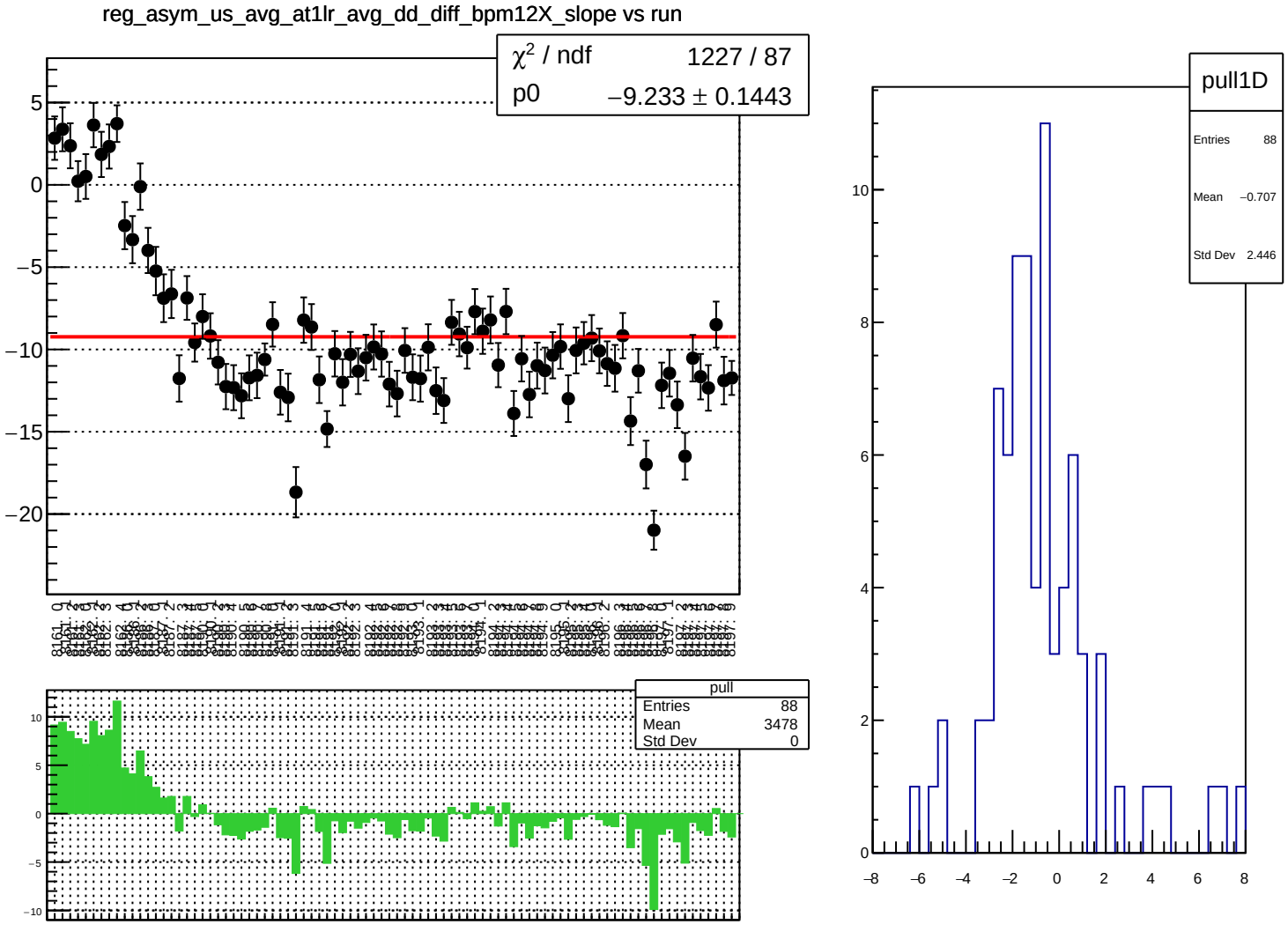

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.24 / 87
p0 19.4 ± 2.963
pull
Entries 88
Mean 443.5
Std Dev 0
pull1D
Entries 88
Mean −0.009072
Std Dev 0.8741

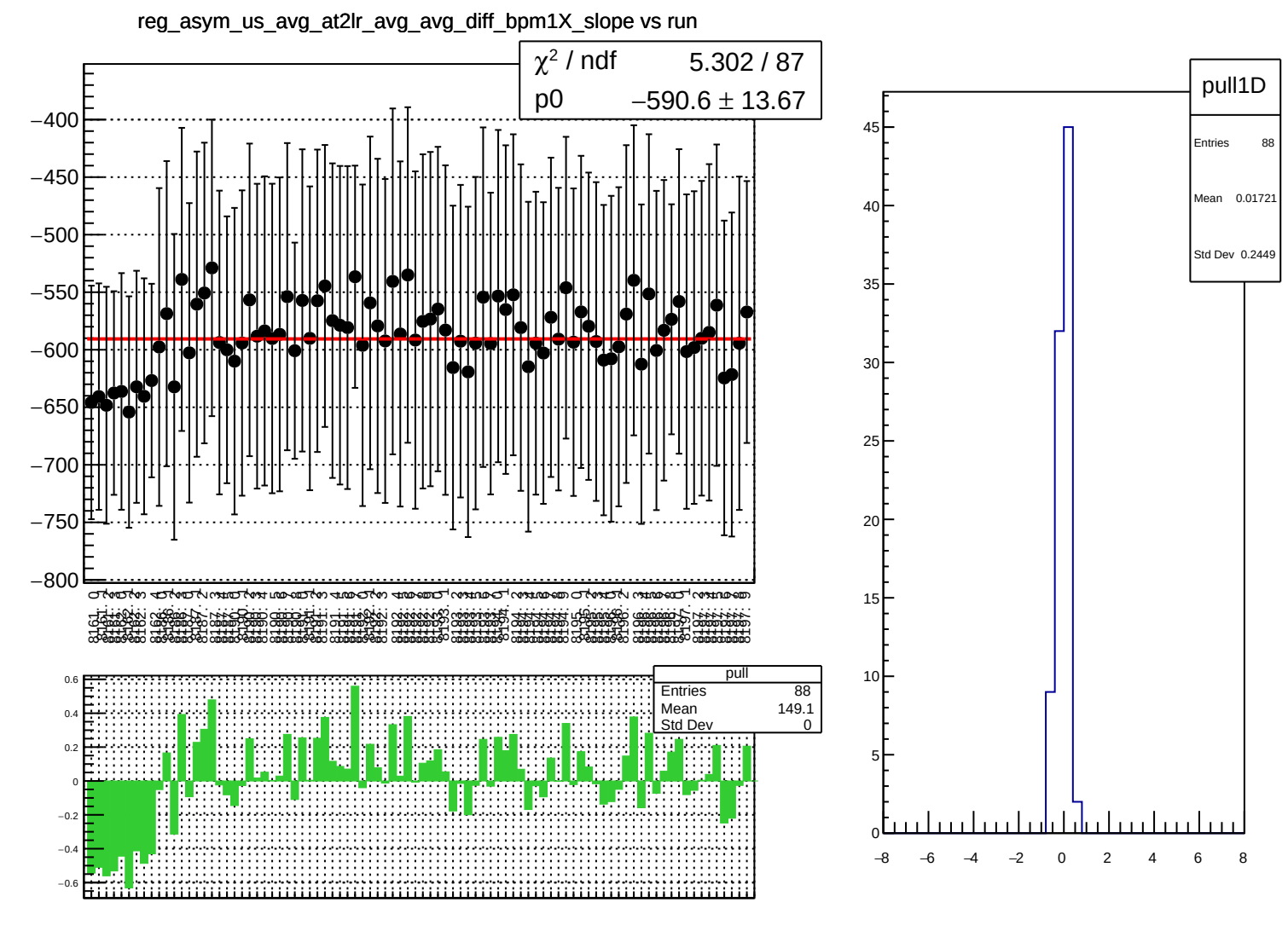

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 123 / 87
p0 34.37 ± 1.786
pull
Entries 88
Mean 302.6
Std Dev 0

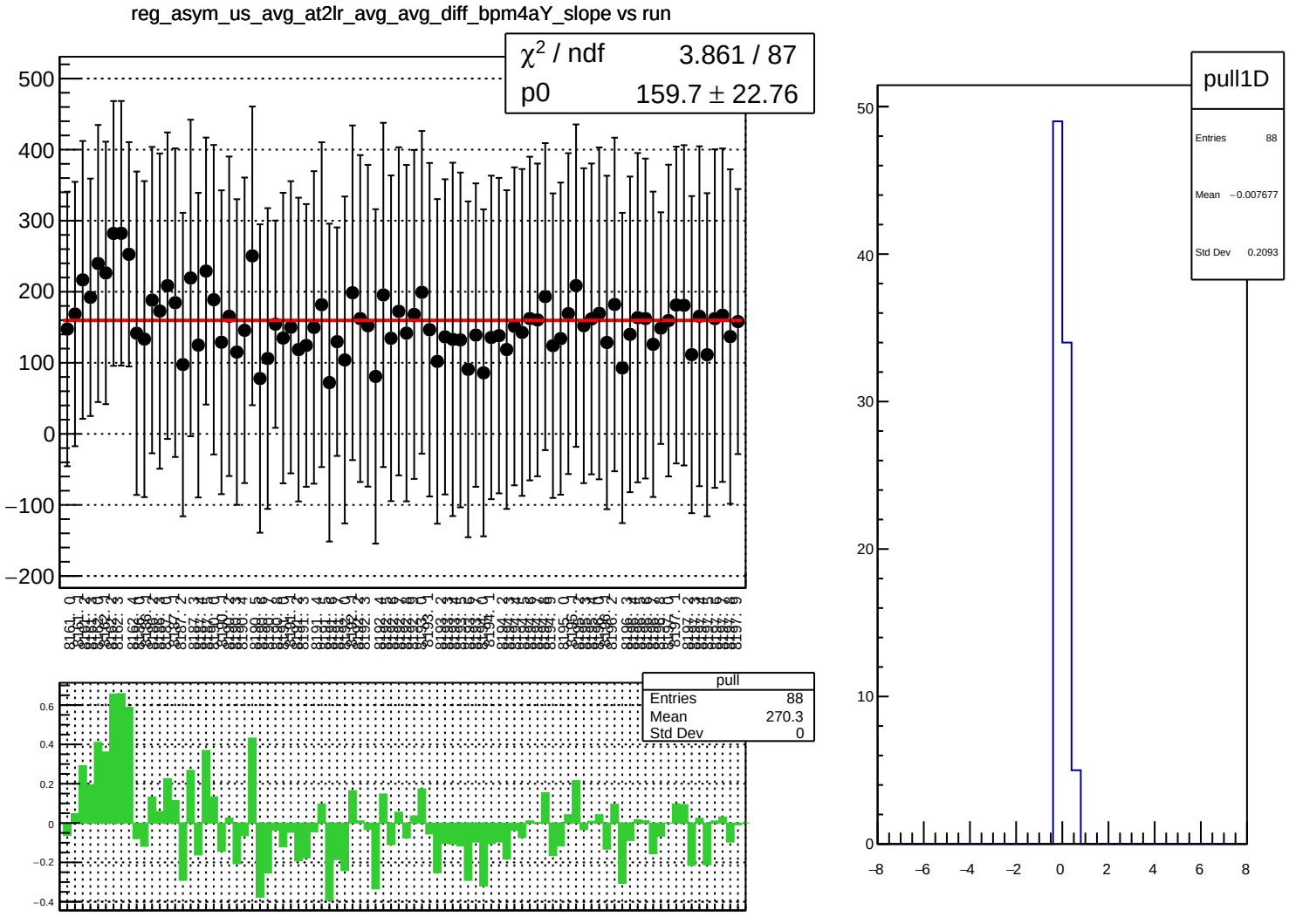

pull1D
Entries 88
Mean 0.04135
Std Dev 1.182

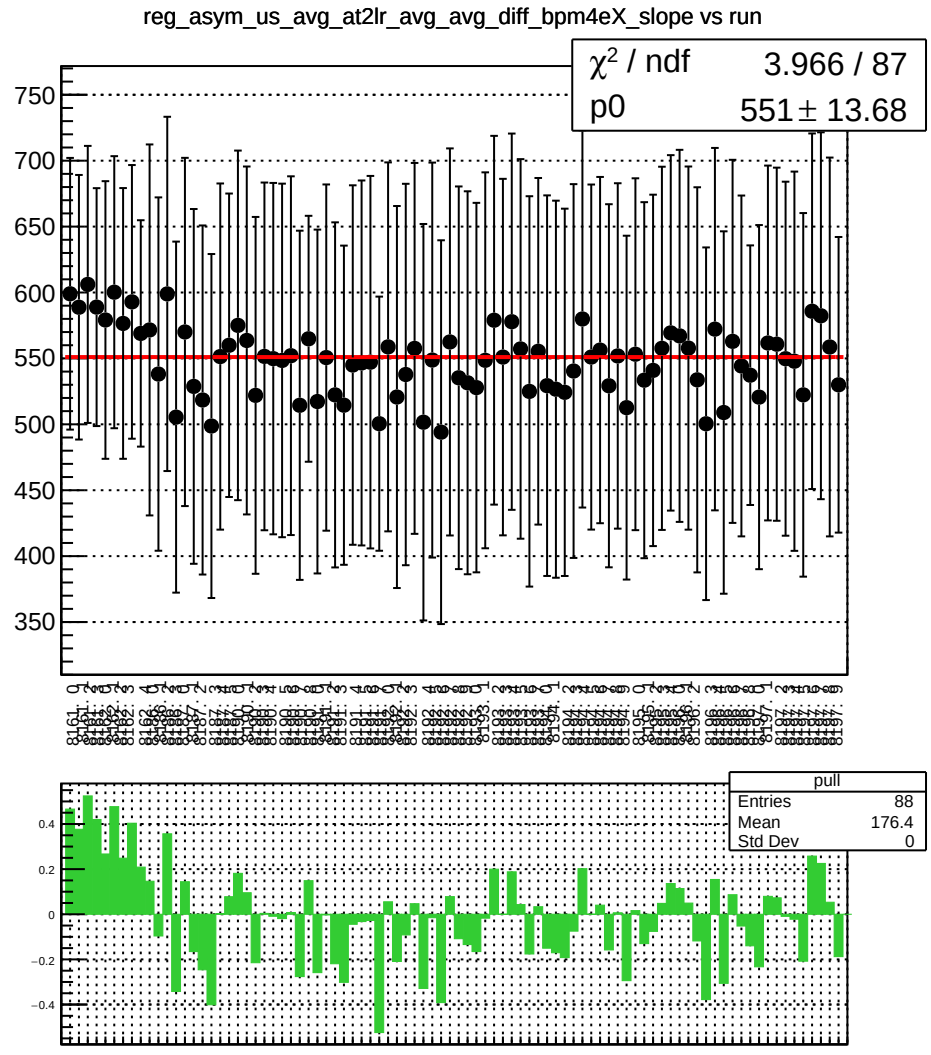

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.07 / 87
p0 −6.126 ± 3.193
pull
Entries 88
Mean 406
Std Dev 0

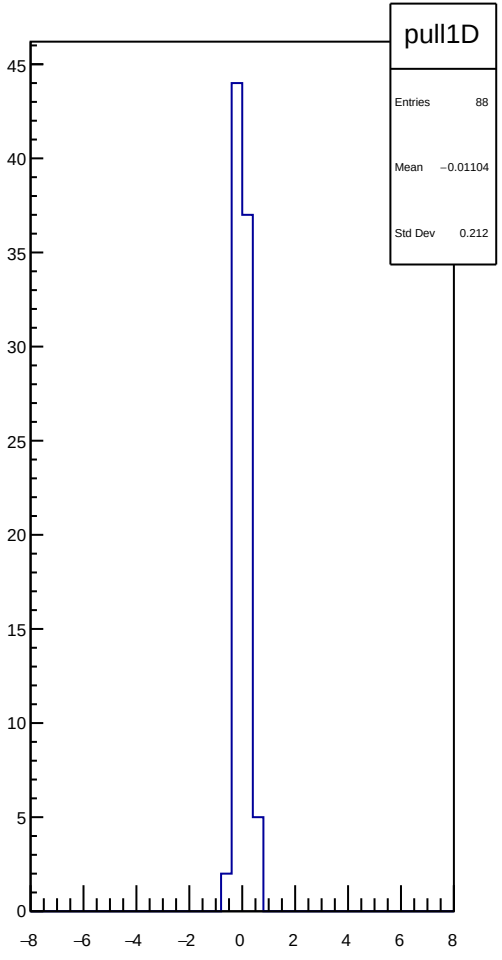

pull1D
Entries 88
Mean 0.009163
Std Dev 0.873

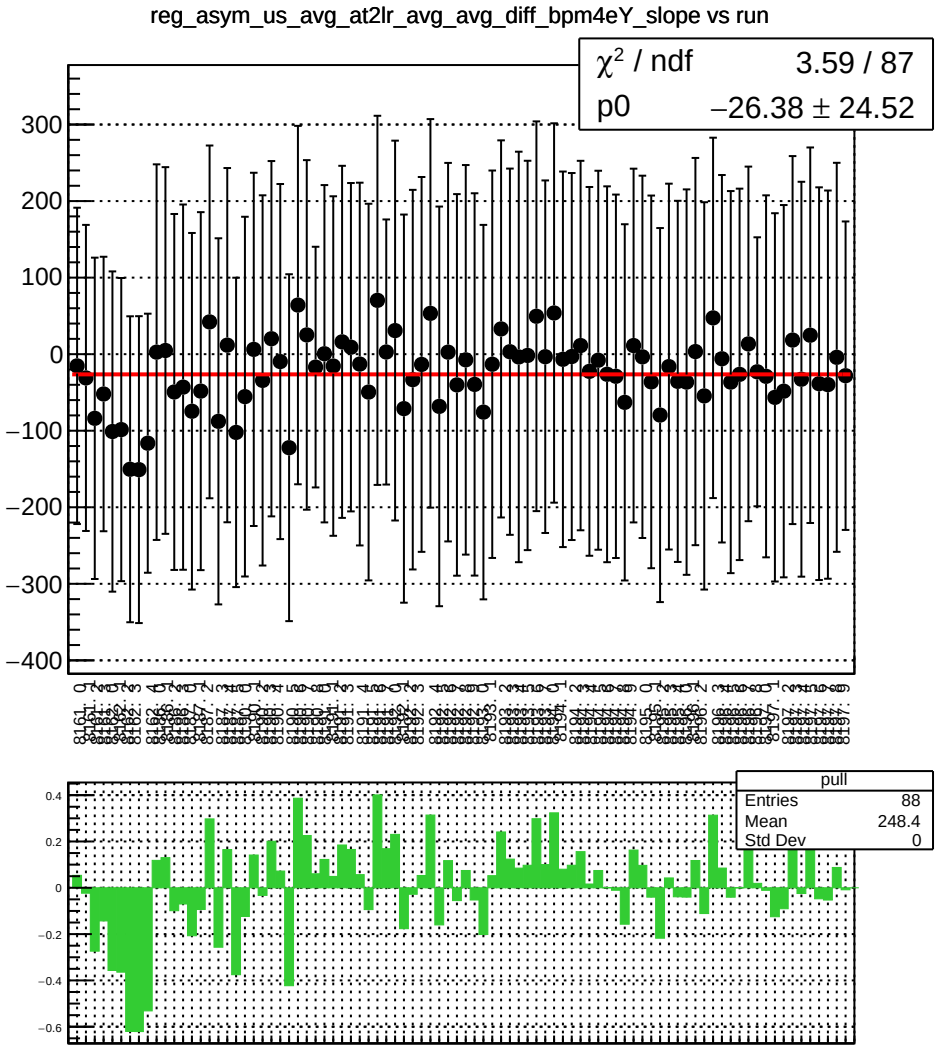

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1227 / 87
p0 −9.233 ± 0.1443
pull
Entries 88
Mean 3478
Std Dev 0
pull1D
Entries 88
Mean −0.707
Std Dev 2.446

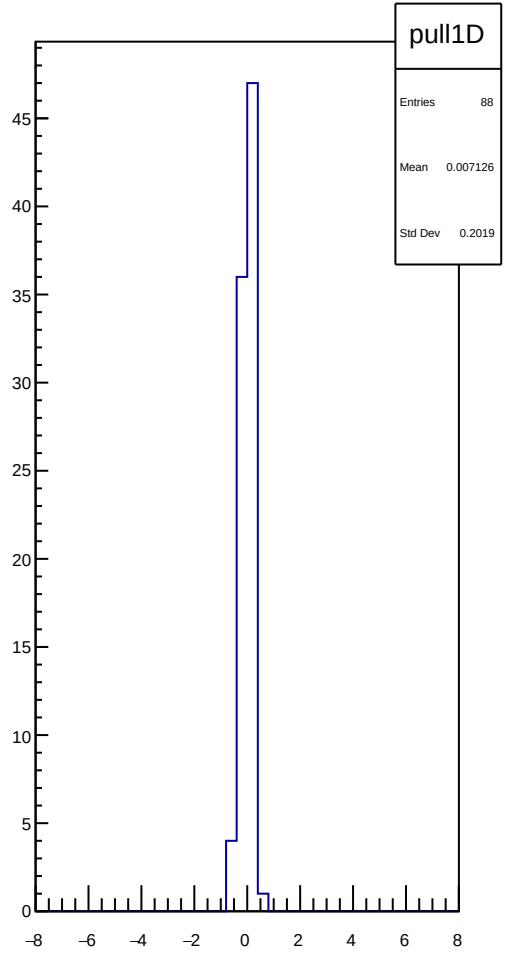

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.302 / 87
p0 −590.6 ± 13.67
pull
Entries 88
Mean 149.1
Std Dev 0
pull1D
Entries 88
Mean 0.01721
Std Dev 0.2449

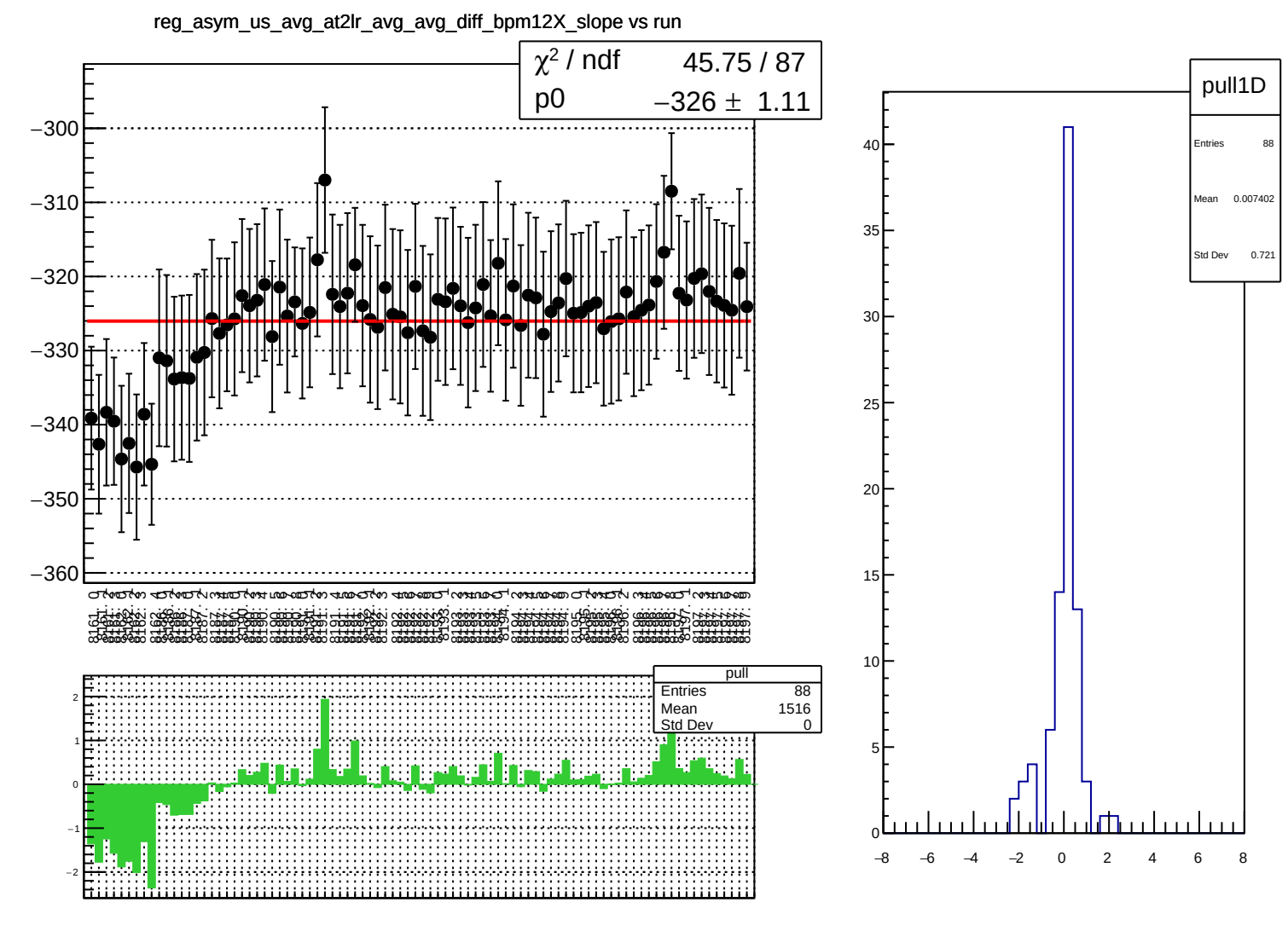

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.861 / 87
p0 159.7 ± 22.76
pull
Entries 88
Mean 270.3
Std Dev 0
pull1D
Entries 88
Mean −0.007677
Std Dev 0.2093

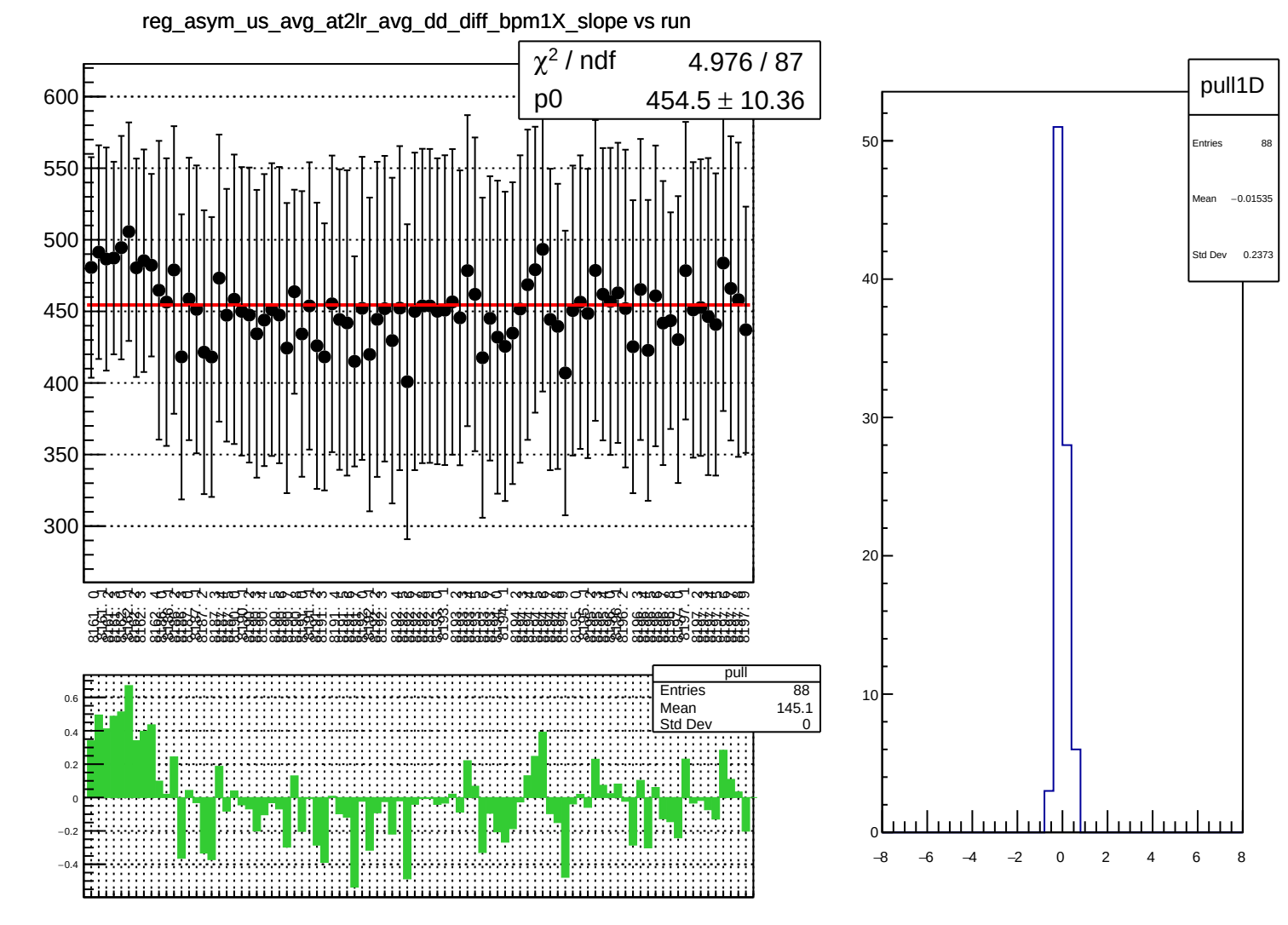

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.966 / 87
p0 551 ± 13.68
pull
Entries 88
Mean 176.4
Std Dev 0

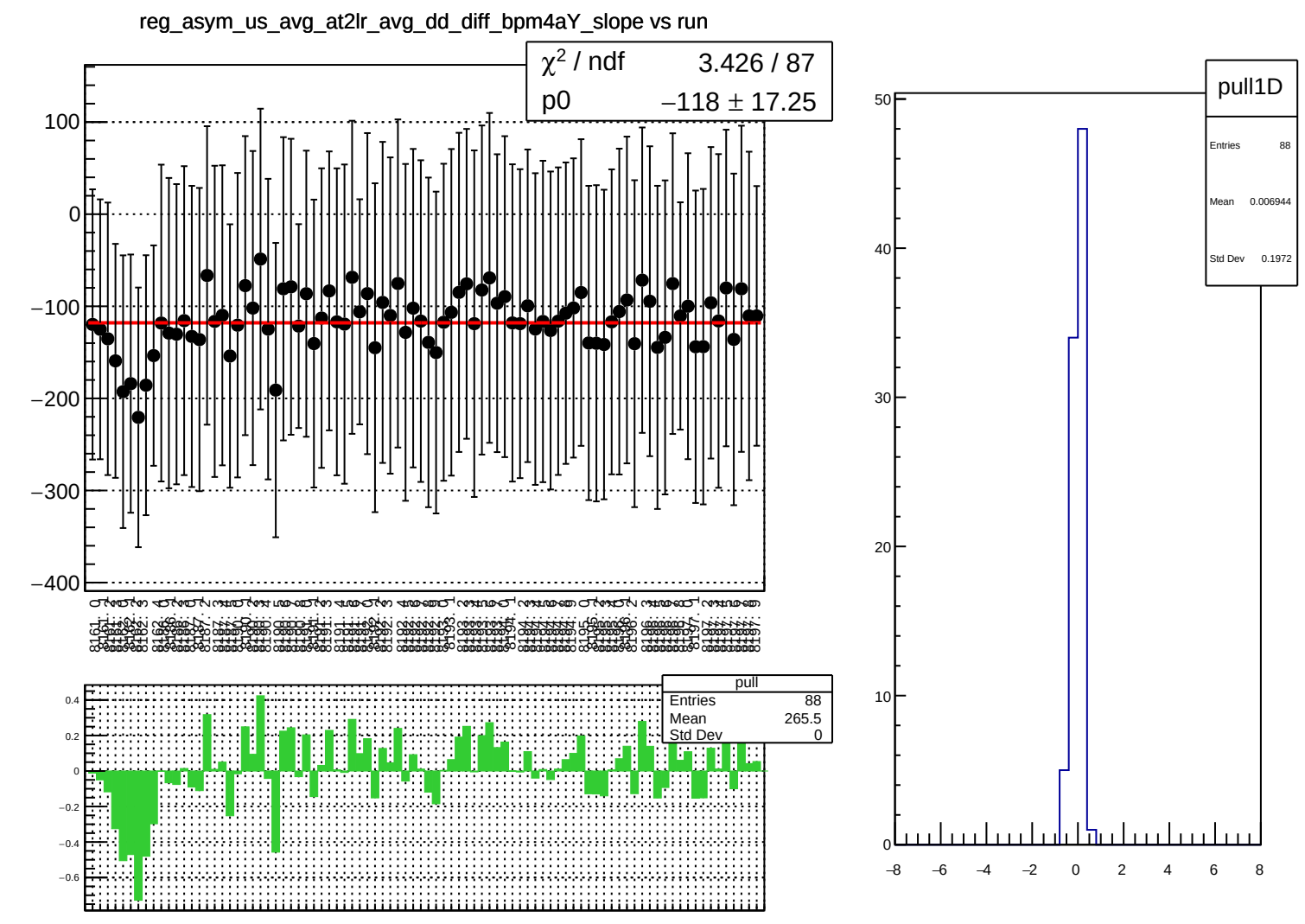

pull1D
Entries 88
Mean −0.01104
Std Dev 0.212

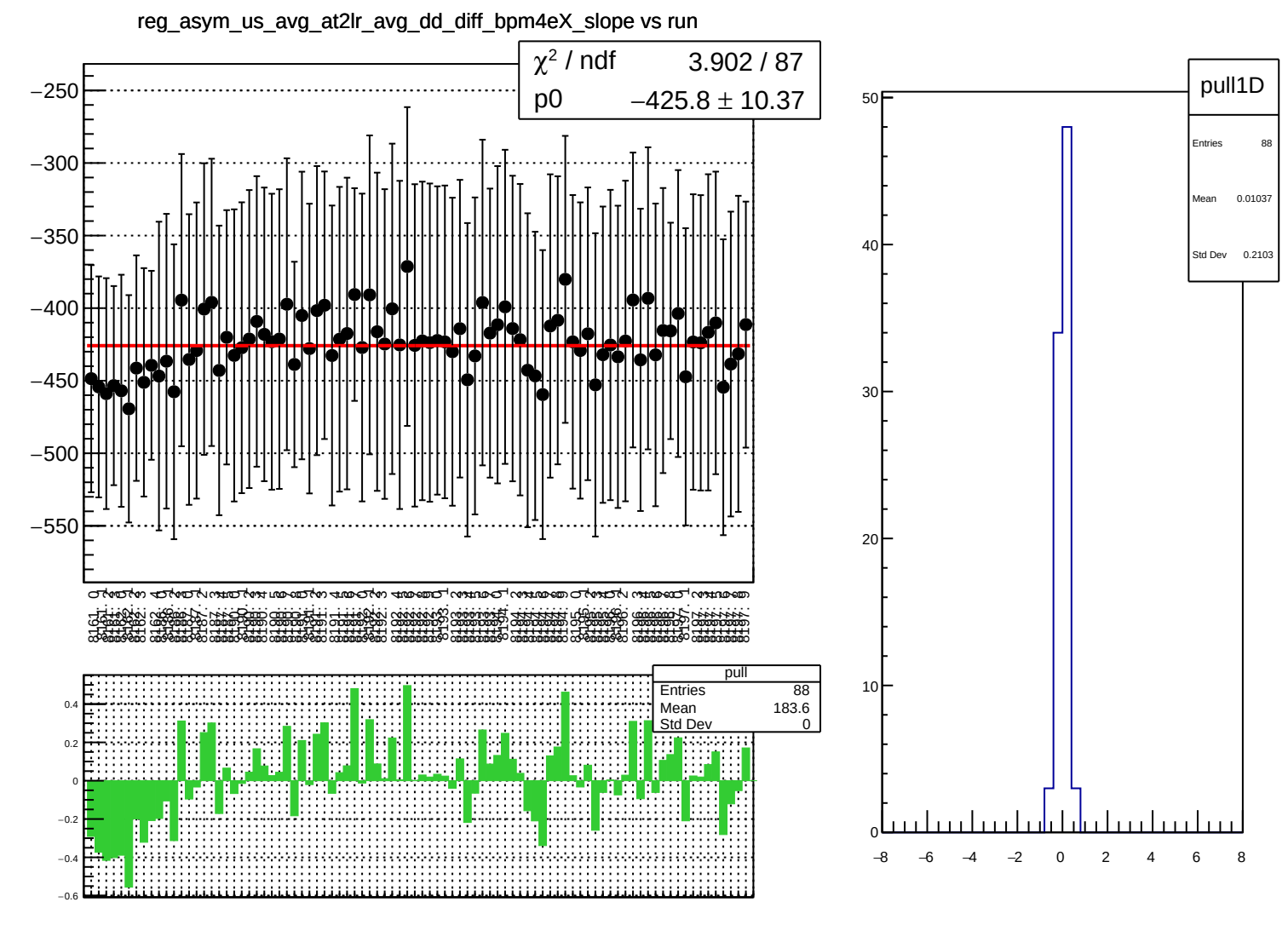

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.59 / 87
p0 −26.38 ± 24.52
300
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 248.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

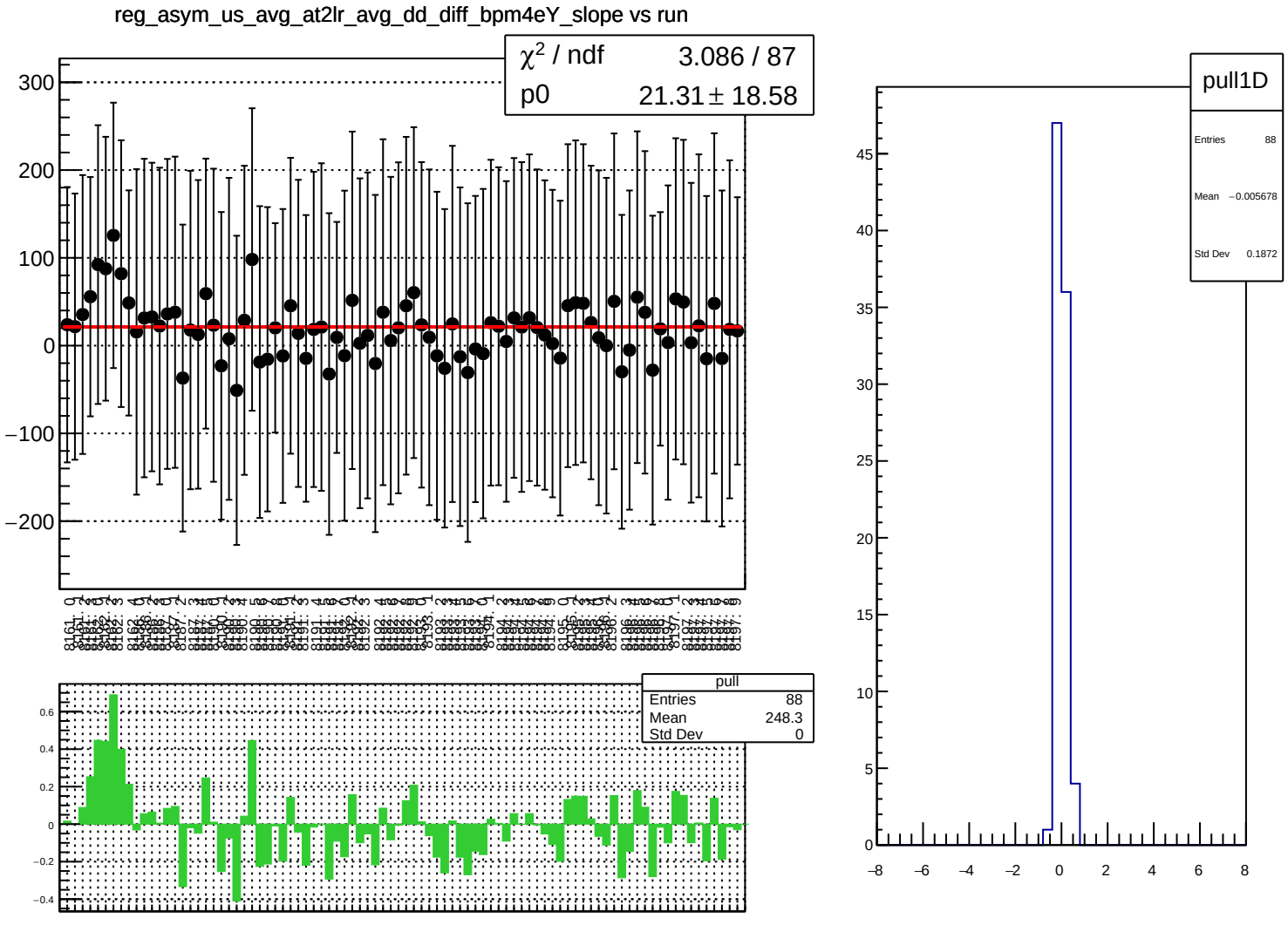

pull1D
Entries 88
Mean 0.007126
Std Dev 0.2019
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

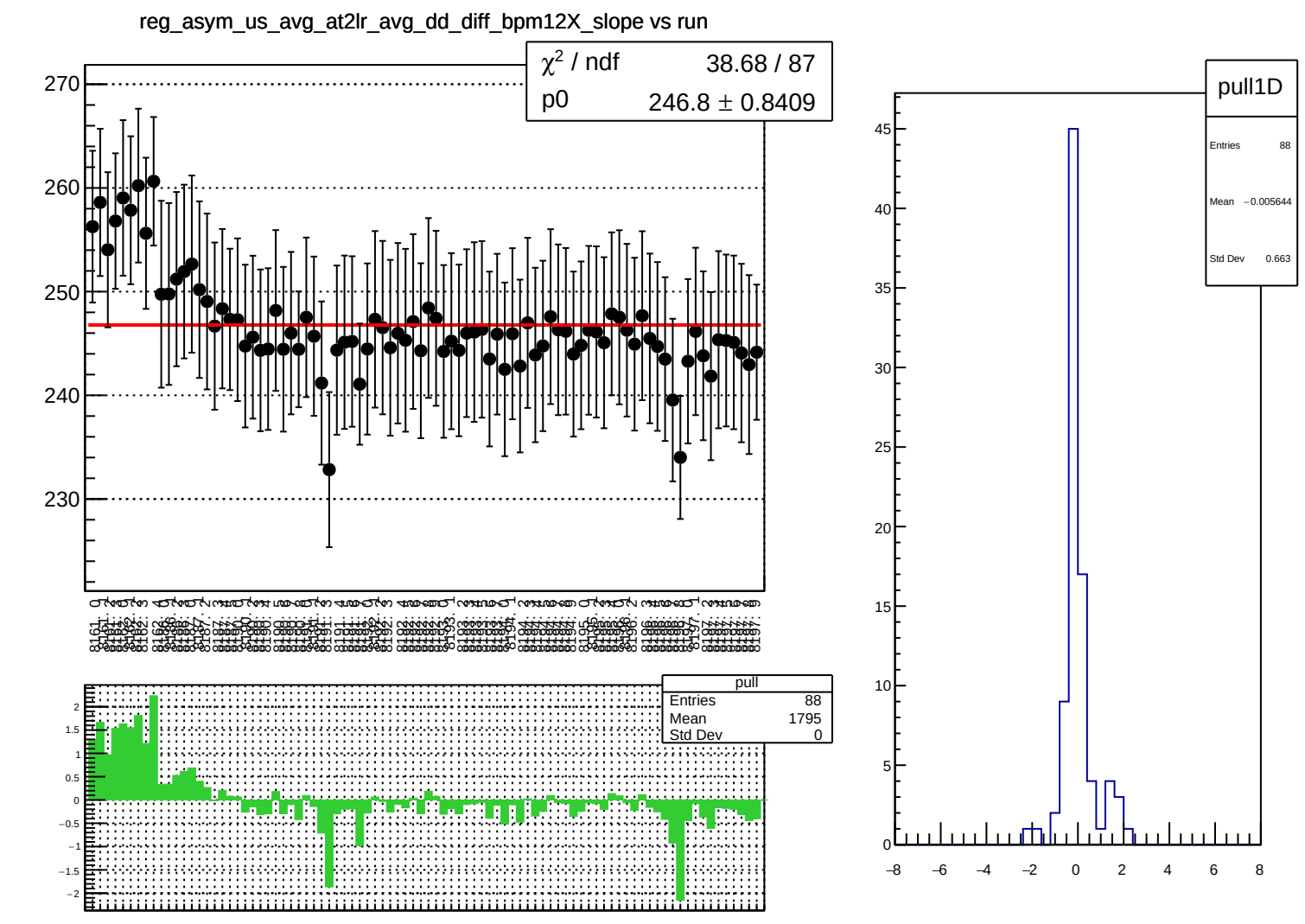

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 45.75 / 87
p0 −326 ± 1.11
−300
−310
−320
−330
−340
−350
−360
pull
Entries 88
Mean 1516
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007402
Std Dev 0.721
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

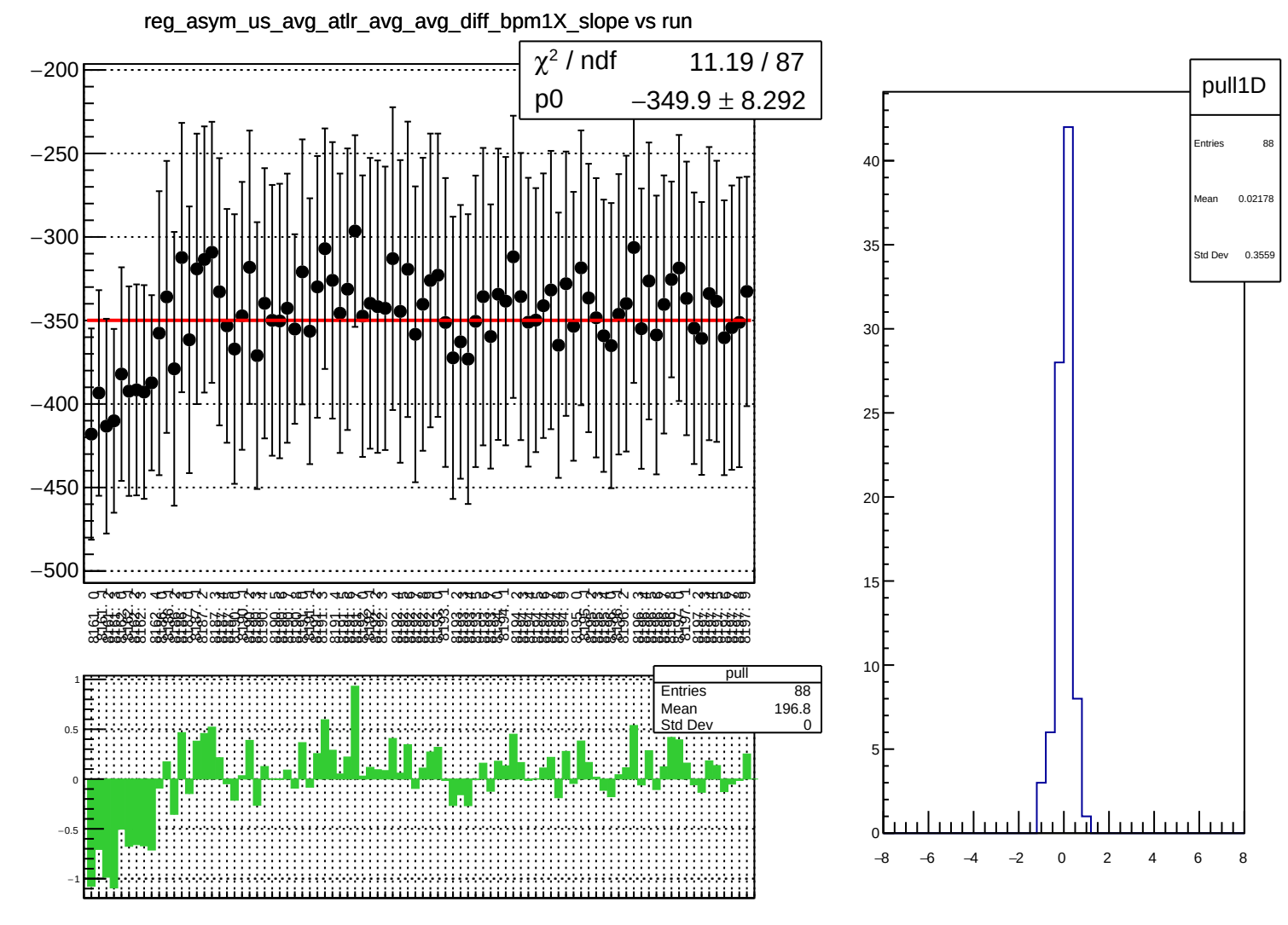

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.976 / 87
p0 454.5 ± 10.36
600
550
500
450
400
350
300
pull
Entries 88
Mean 145.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.01535
Std Dev 0.2373
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

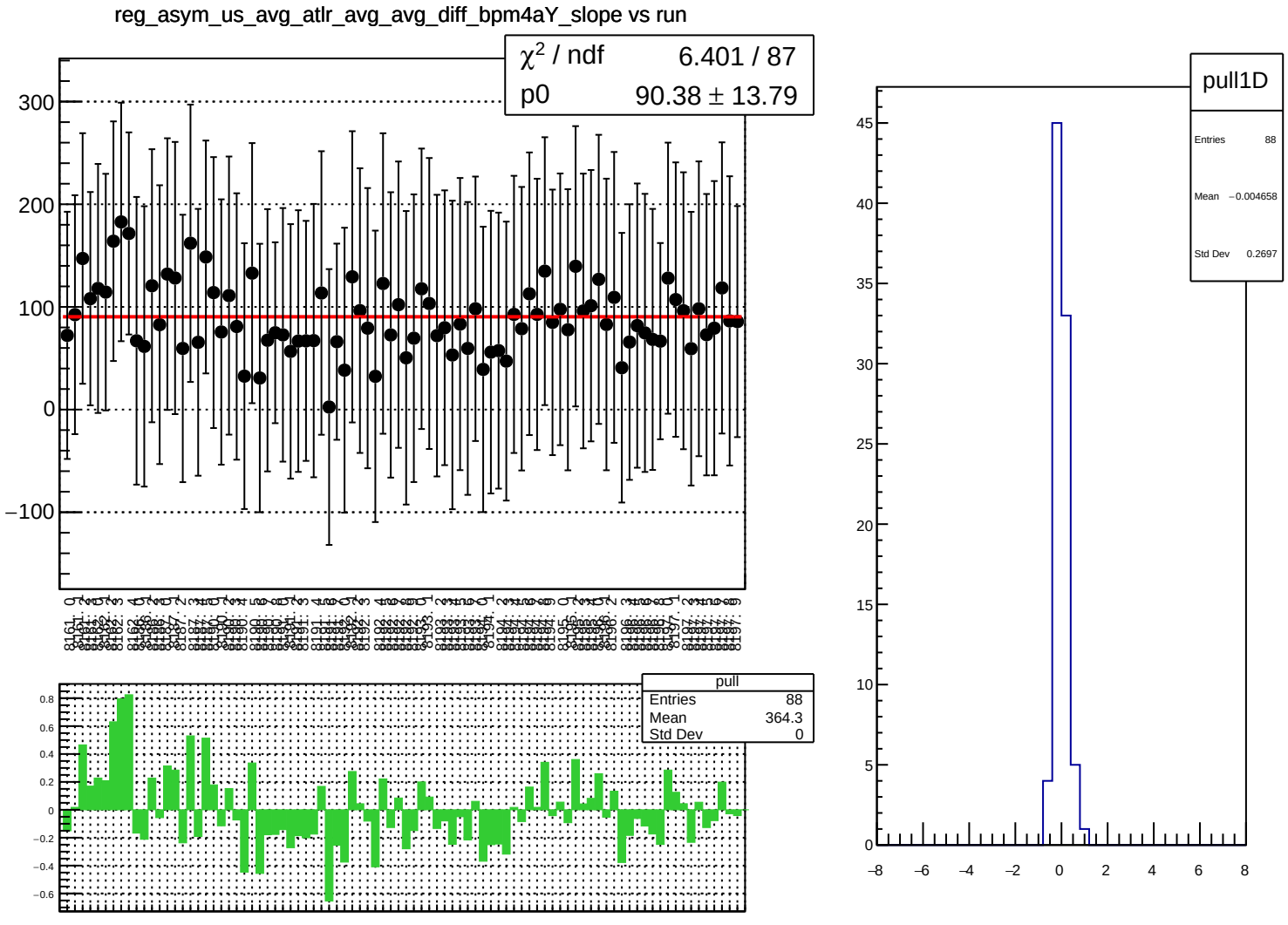

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.426 / 87
p0 −118 ± 17.25
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 265.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.006944
Std Dev 0.1972
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

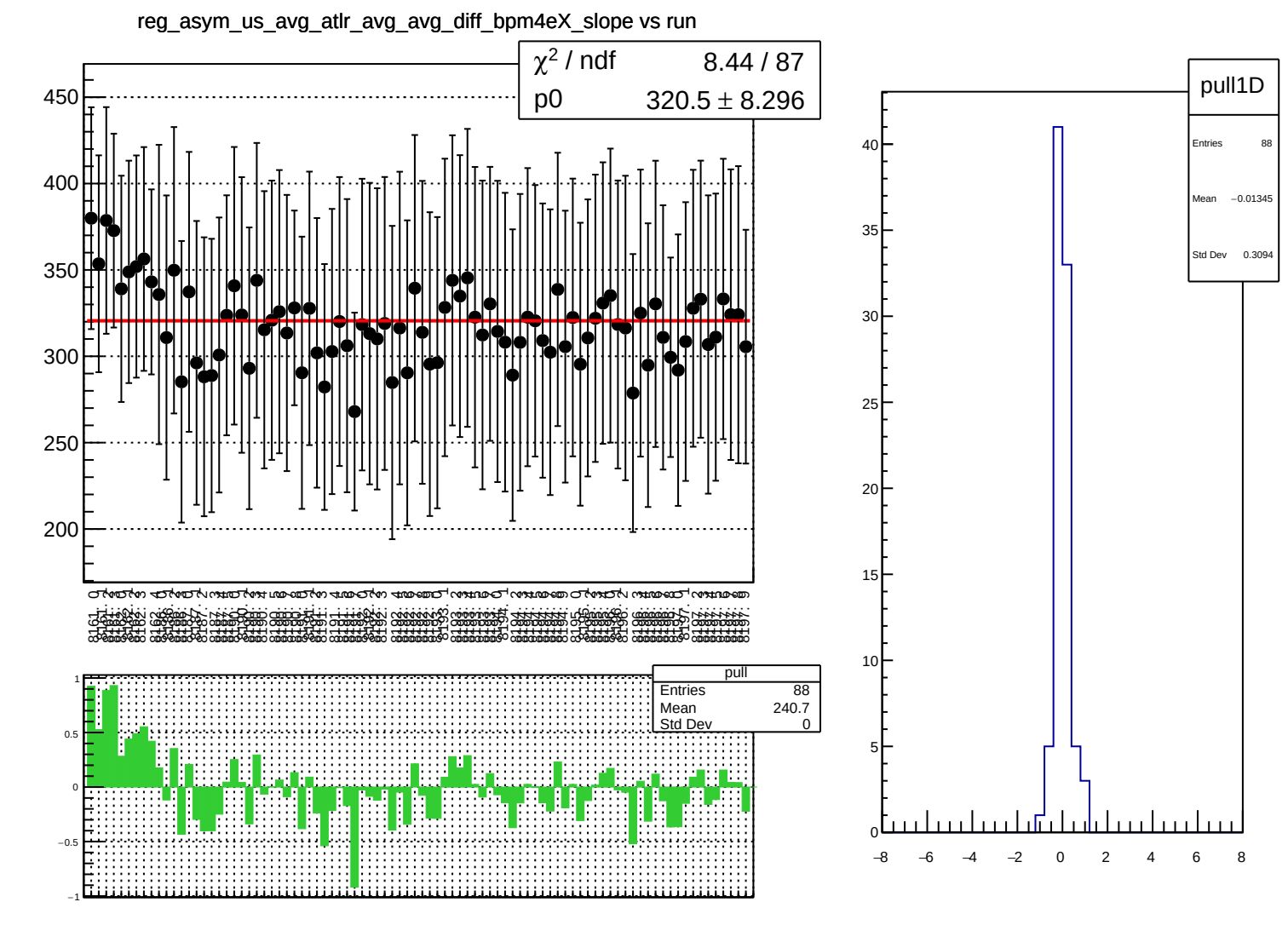

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.902 / 87
p0 −425.8 ± 10.37
pull
Entries 88
Mean 183.6
Std Dev 0
pull1D
Entries 88
Mean 0.01037
Std Dev 0.2103

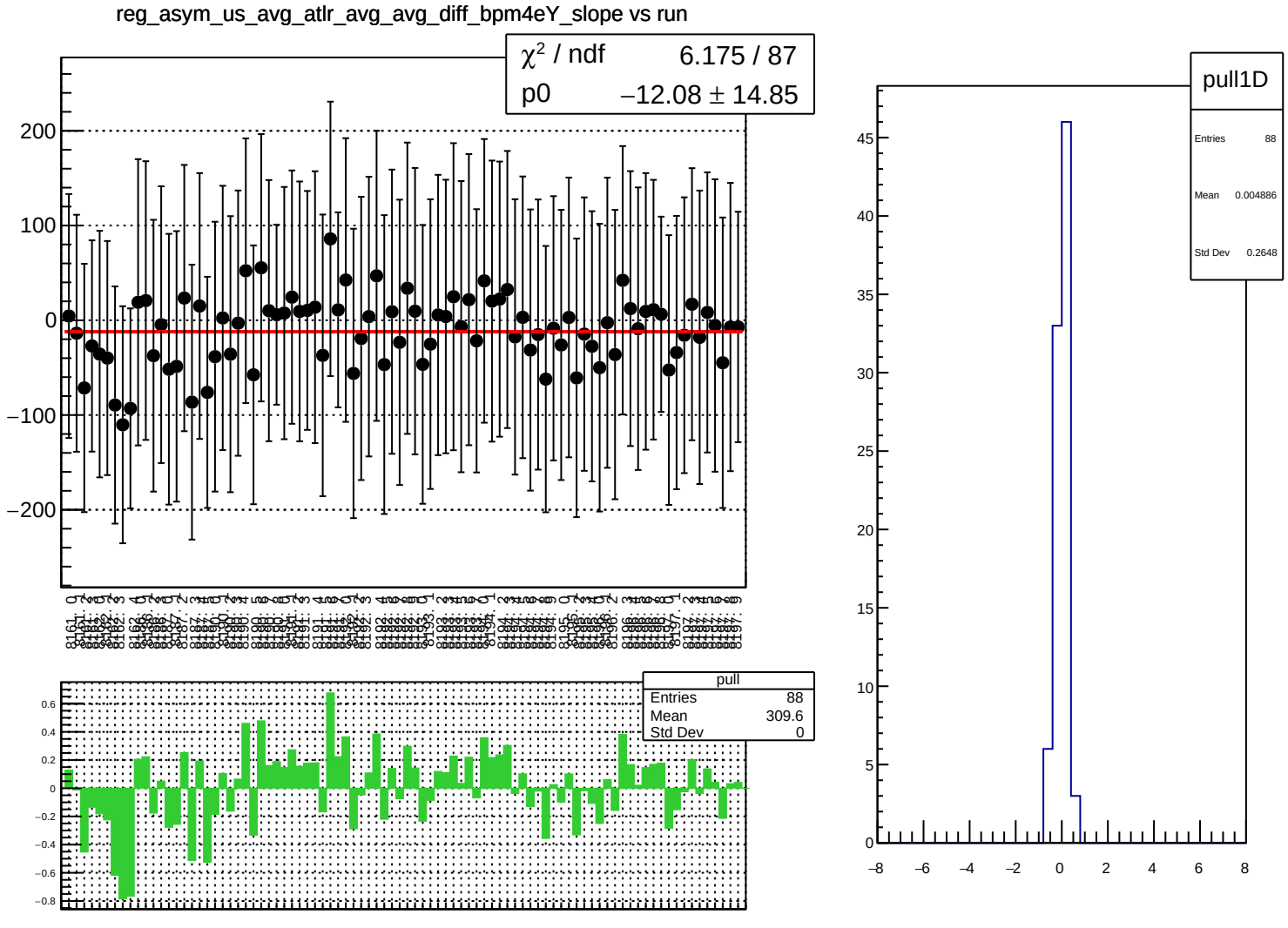

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.086 / 87
p0 21.31 ± 18.58
300
200
100
0
−100
−200
pull
Entries 88
Mean 248.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 88
Mean −0.005678
Std Dev 0.1872
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

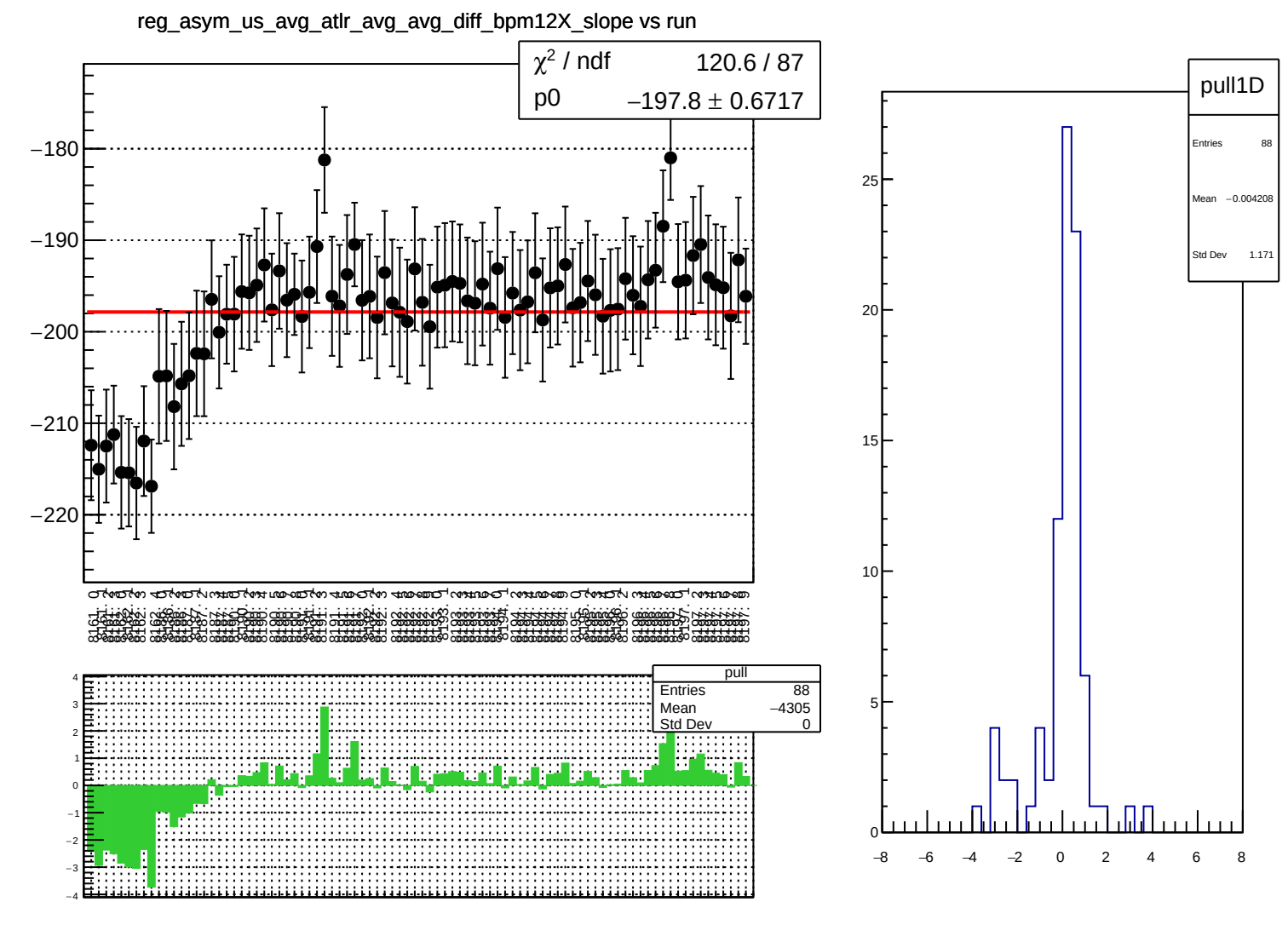

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 38.68 / 87
p0 246.8 ± 0.8409
270
260
250
240
230
pull
Entries 88
Mean 1795
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.005644
Std Dev 0.663
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

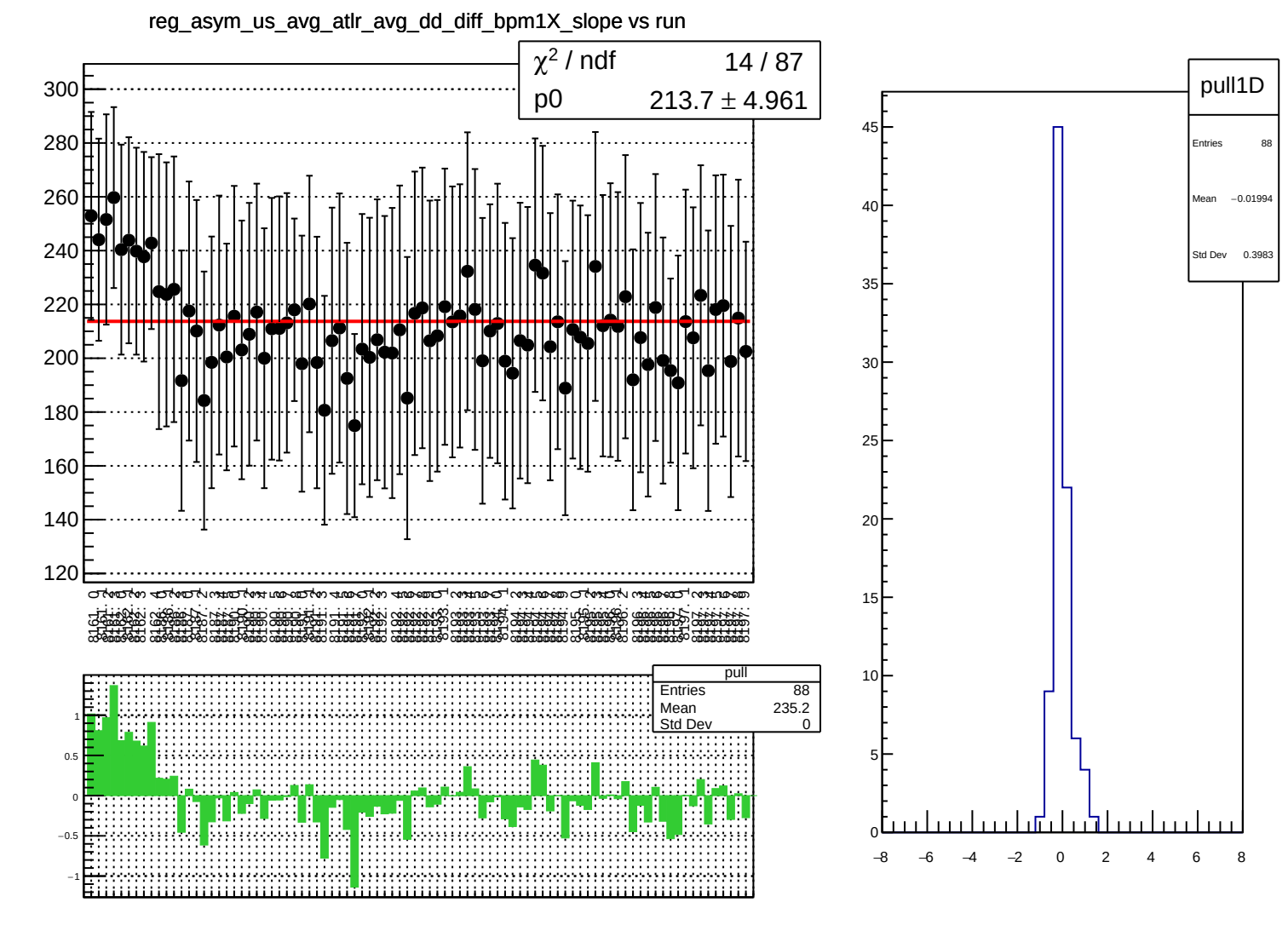

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.19 / 87
p0 −349.9 ± 8.292
pull
Entries 88
Mean 196.8
Std Dev 0
pull1D
Entries 88
Mean 0.02178
Std Dev 0.3559

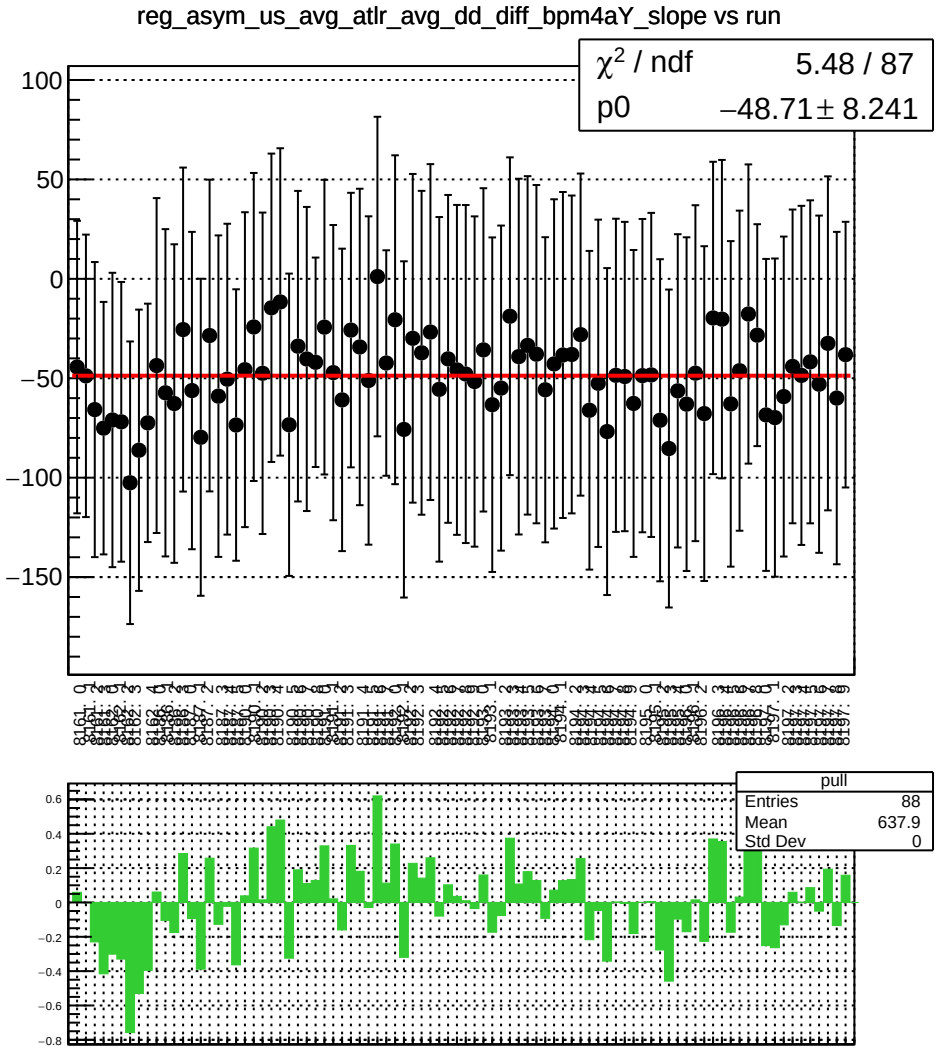

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.401 / 87
p0 90.38 ± 13.79
300
200
100
0
−100
pull
Entries 88
Mean 364.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.004658
Std Dev 0.2697
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

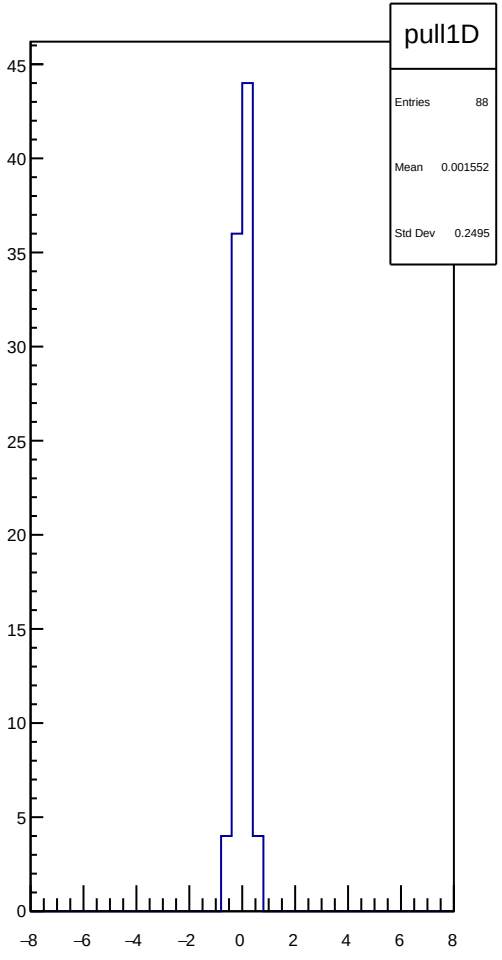

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.44 / 87
p0 320.5 ± 8.296
pull
Entries 88
Mean 240.7
Std Dev 0
pull1D
Entries 88
Mean −0.01345
Std Dev 0.3094

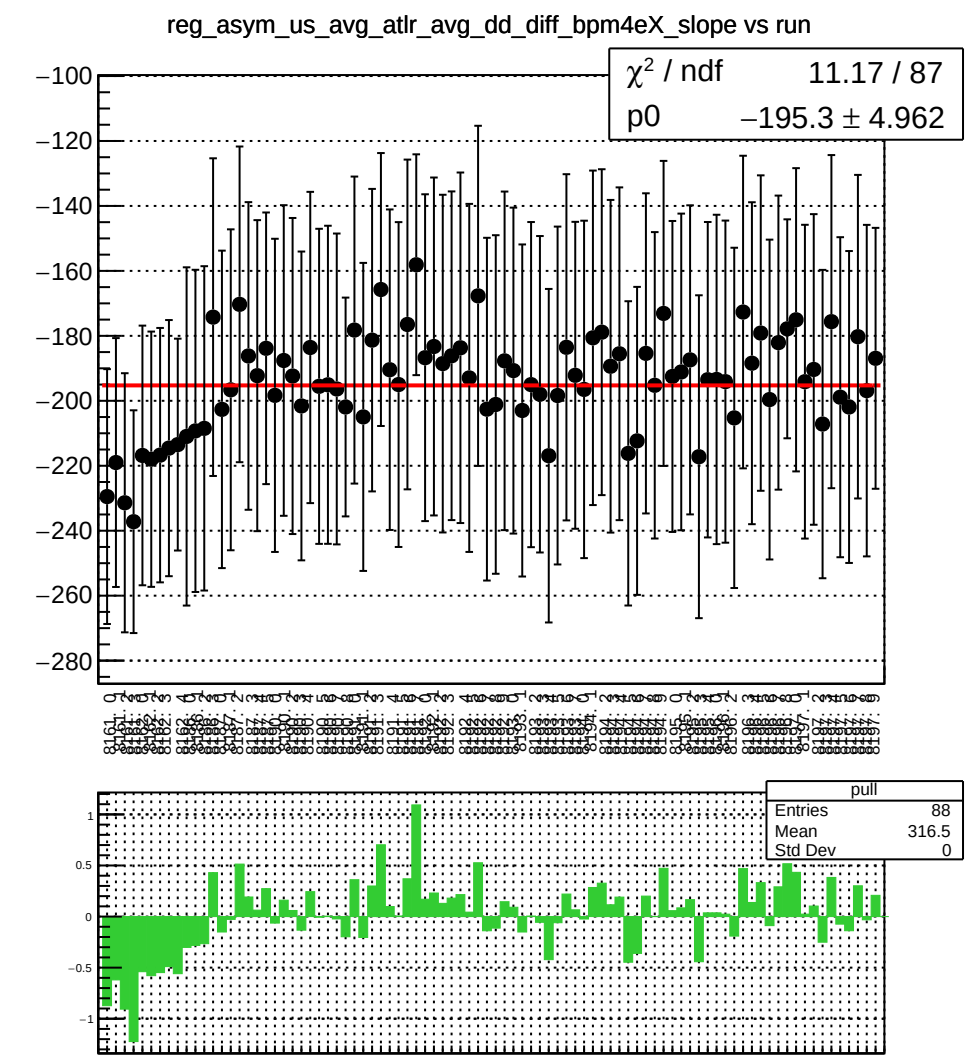

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.175 / 87
p0 −12.08 ± 14.85
200
100
0
−100
−200
pull
Entries 88
Mean 309.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.004886
Std Dev 0.2648
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

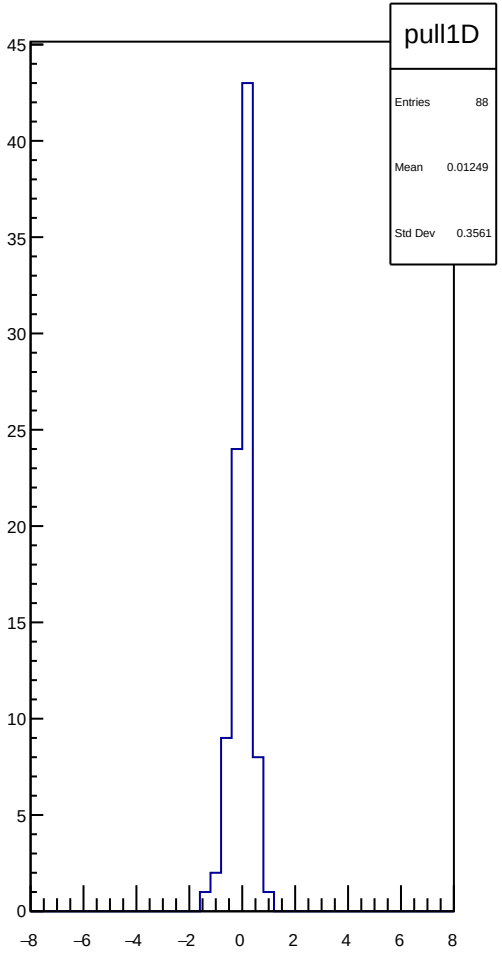

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 120.6 / 87
p0 −197.8 ± 0.6717
−180
−190
−200
−210
−220
pull
Entries 88
Mean −4305
Std Dev 0
pull1D
Entries 88
Mean −0.004208
Std Dev 1.171
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

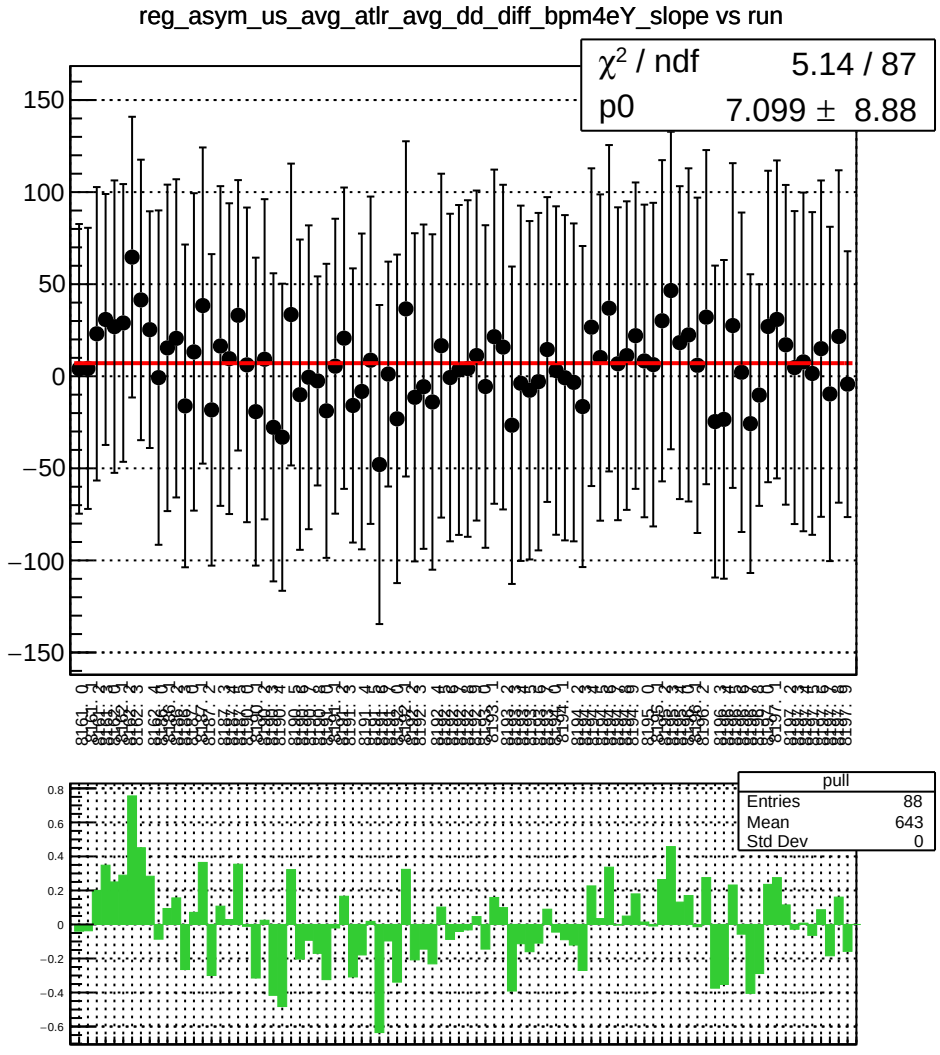

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 14 / 87
p0 213.7 ± 4.961
pull
Entries 88
Mean 235.2
Std Dev 0
pull1D
Entries 88
Mean −0.01994
Std Dev 0.3983

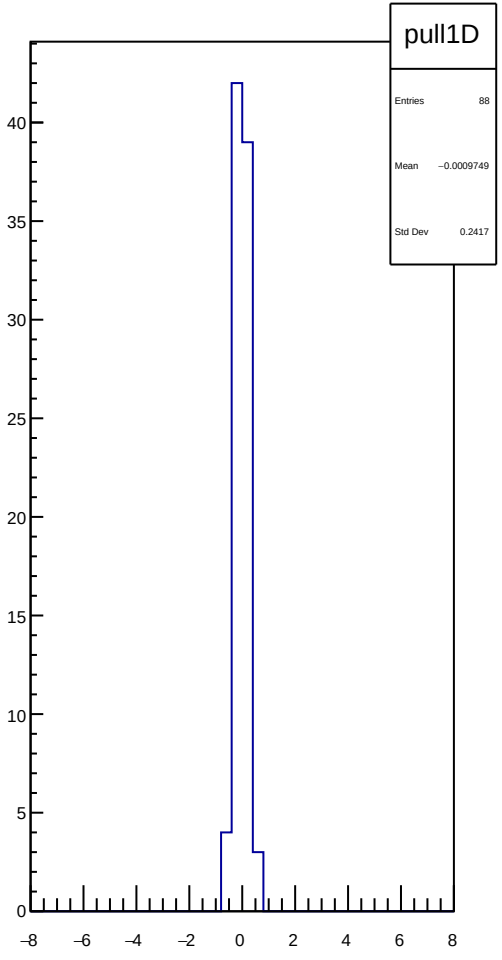

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.48 / 87
p0 −48.71 ± 8.241
pull
Entries 88
Mean 637.9
Std Dev 0

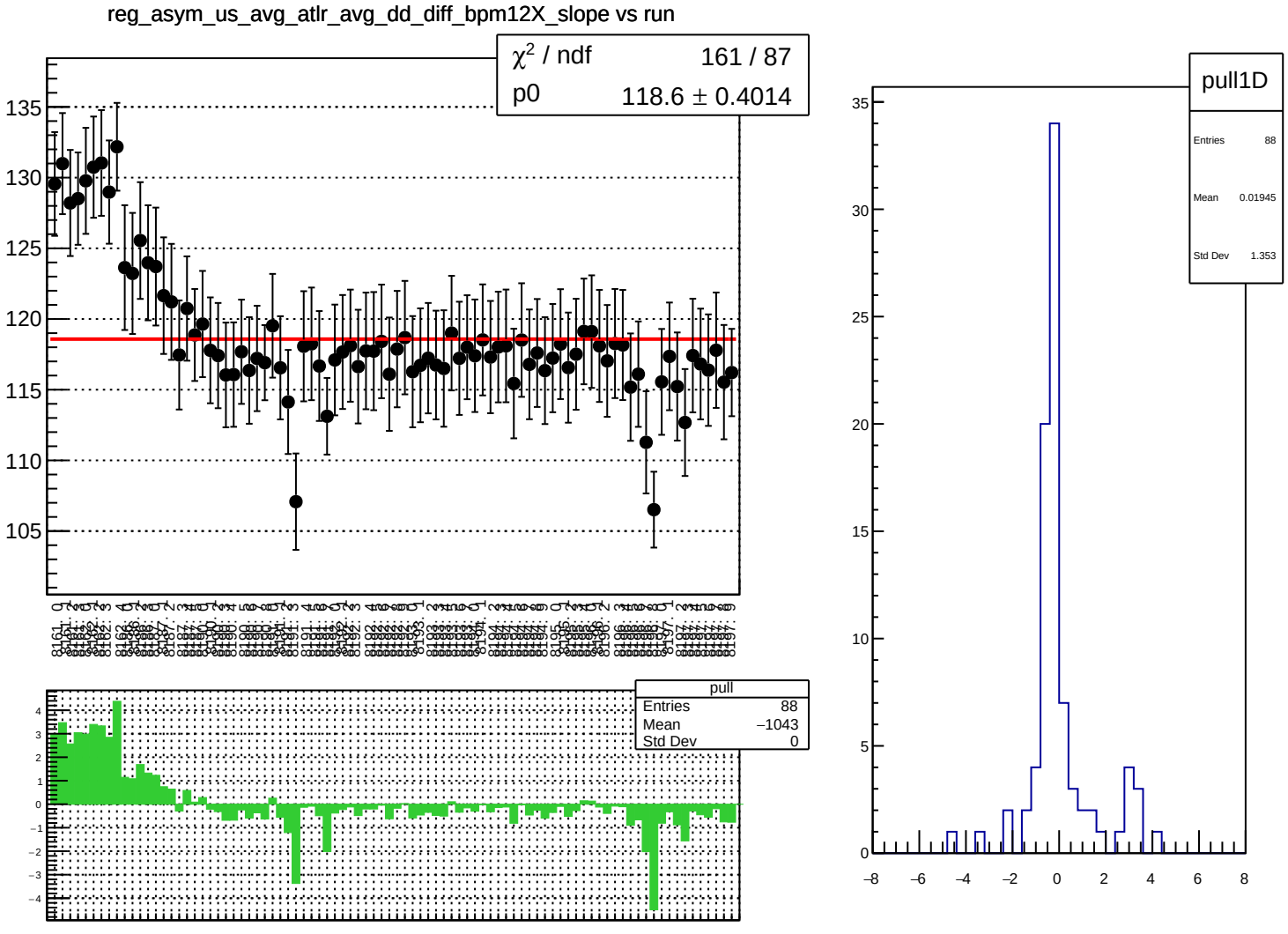

pull1D
Entries 88
Mean 0.001552
Std Dev 0.2495

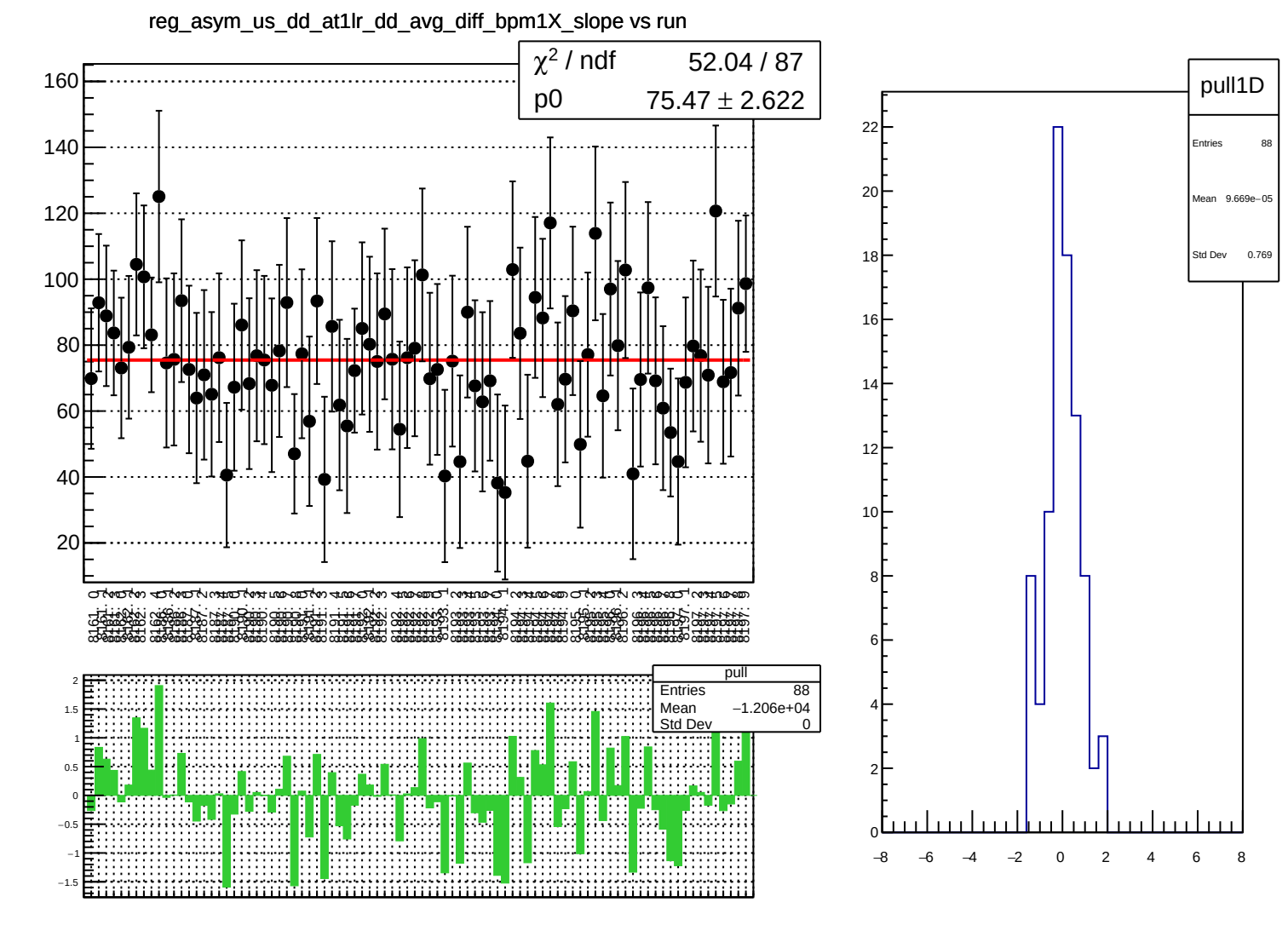

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.17 / 87
p0 −195.3 ± 4.962
pull
Entries 88
Mean 316.5
Std Dev 0

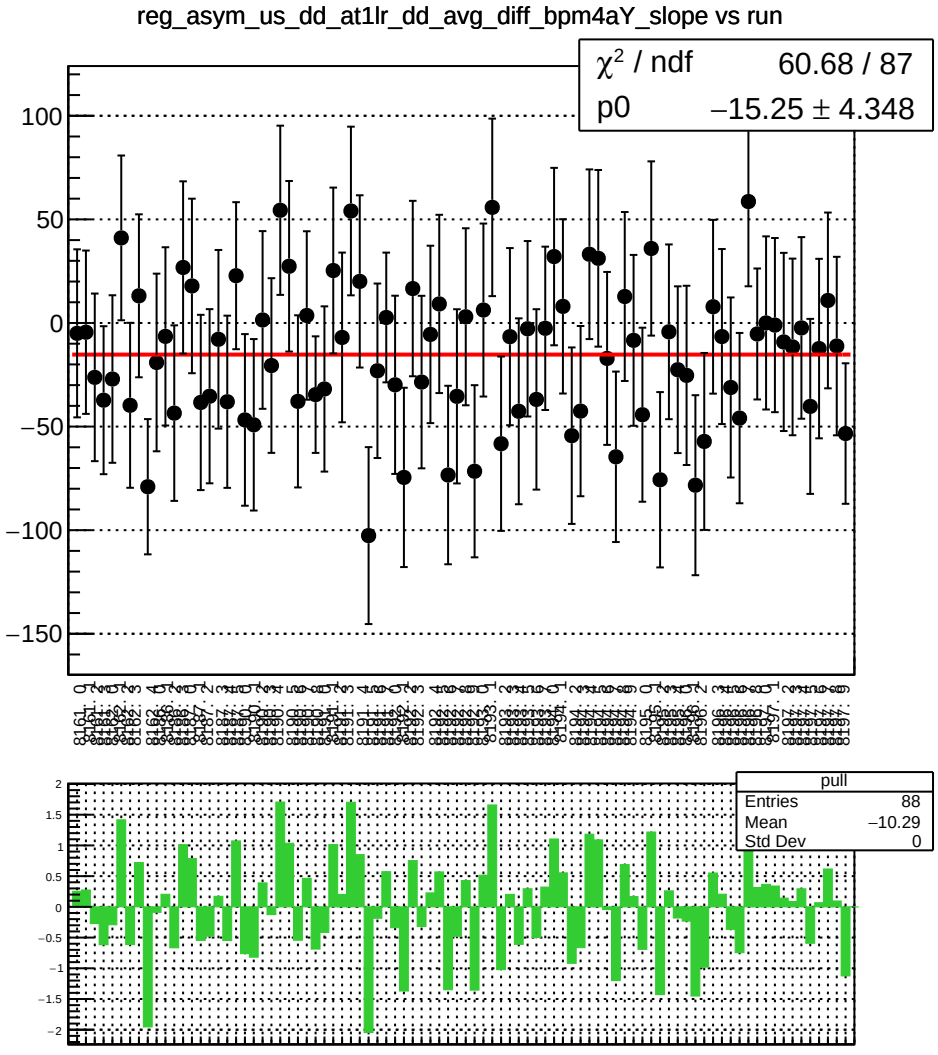

pull1D
Entries 88
Mean 0.01249
Std Dev 0.3561

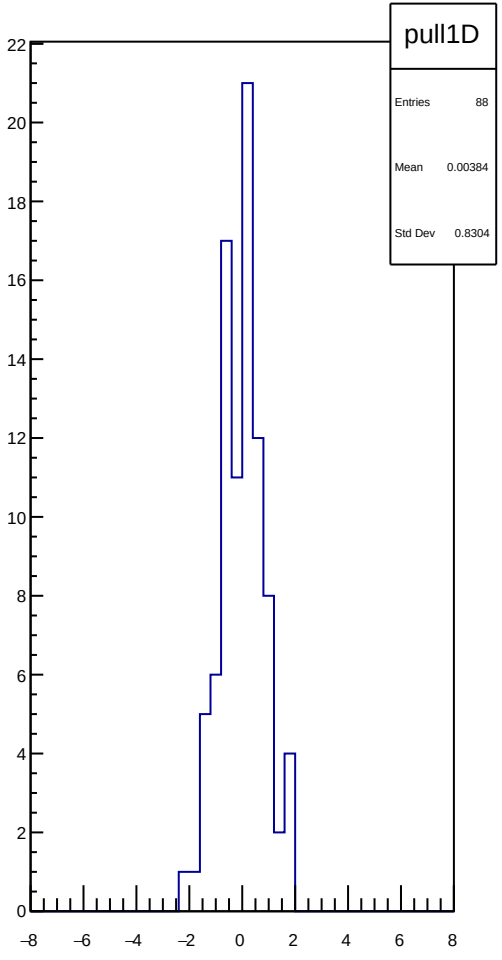

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.14 / 87
p0 7.099 ± 8.88
pull
Entries 88
Mean 643
Std Dev 0

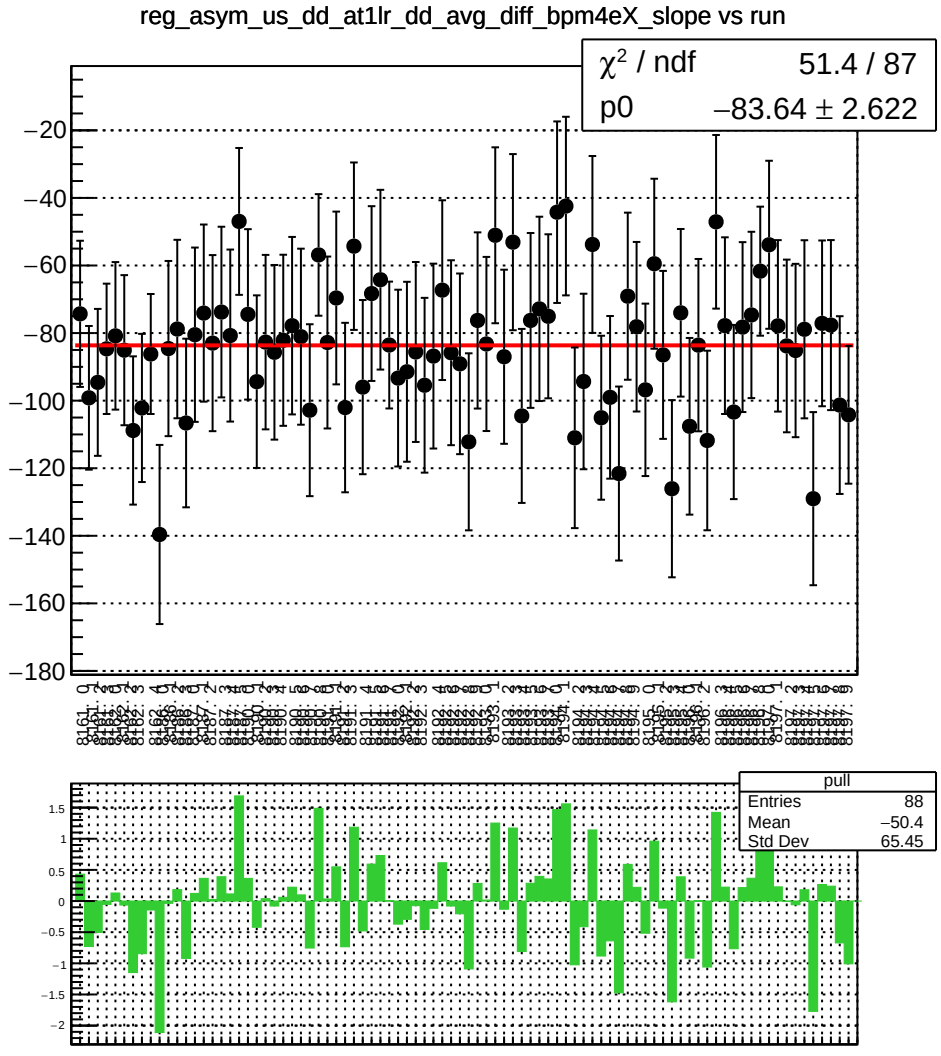

pull1D
Entries 88
Mean −0.0009749
Std Dev 0.2417

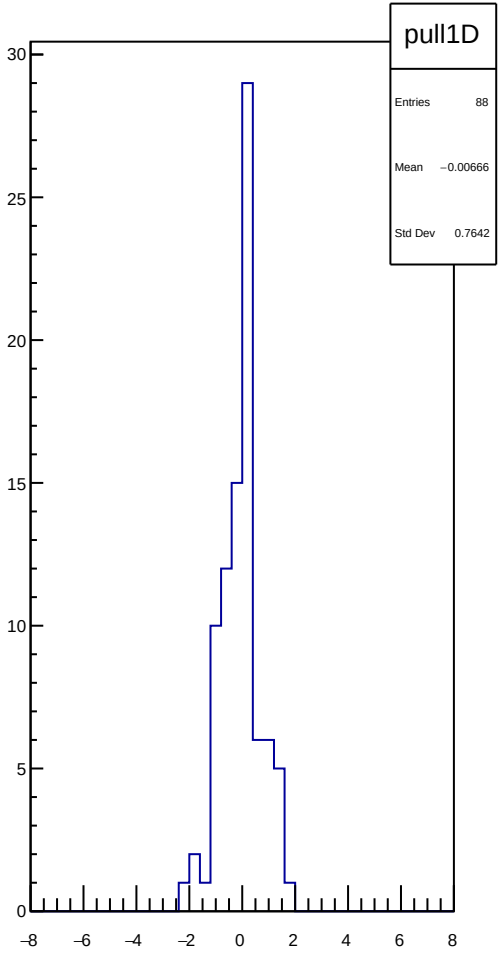

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 161 / 87
p0 118.6 ± 0.4014
pull
Entries 88
Mean −1043
Std Dev 0
pull1D
Entries 88
Mean 0.01945
Std Dev 1.353

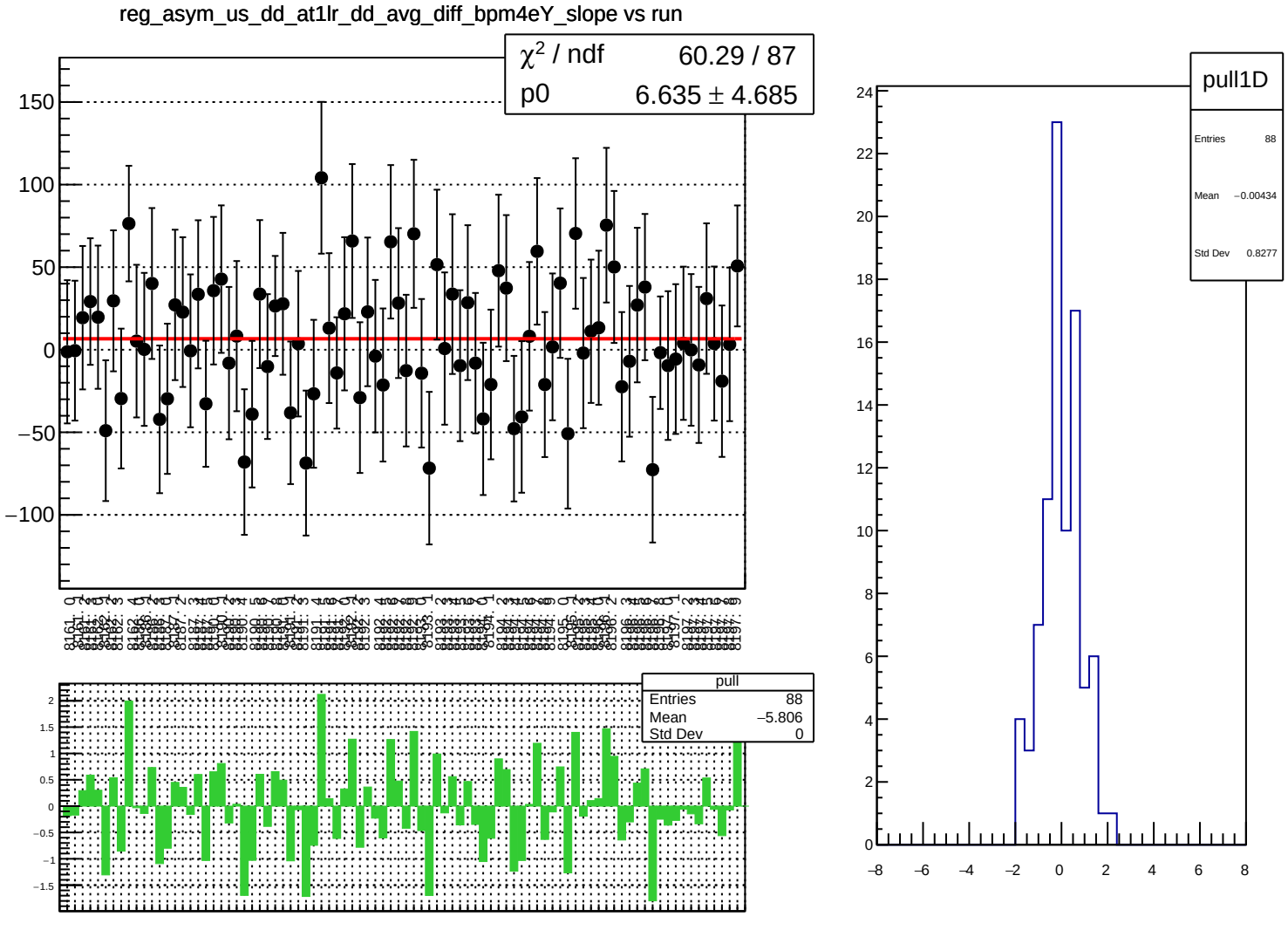

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 52.04 / 87
p0 75.47 ± 2.622
pull
Entries 88
Mean −1.206e+04
Std Dev 0
pull1D
Entries 88
Mean 9.669e−05
Std Dev 0.769

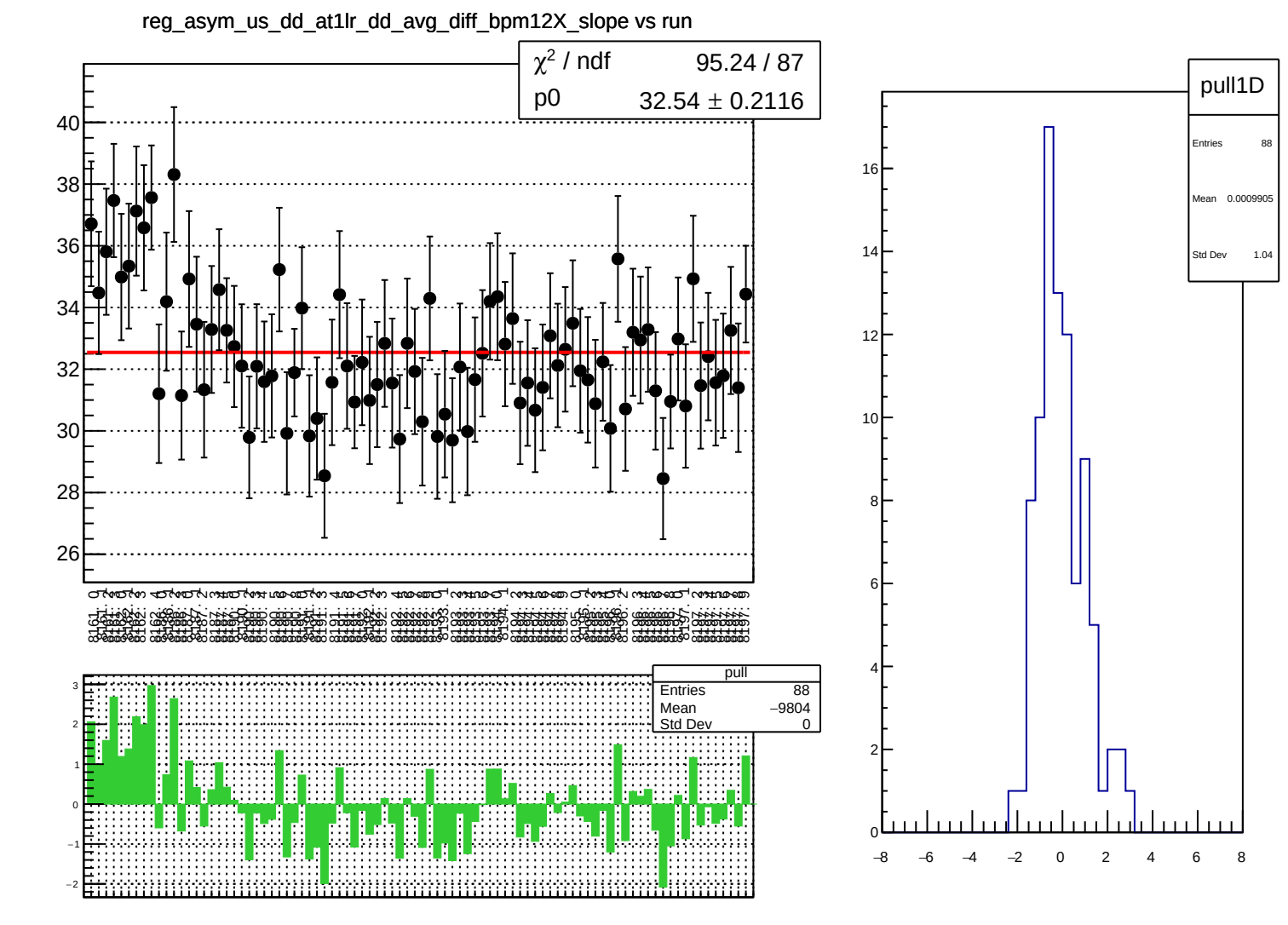

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.68 / 87
p0 −15.25 ± 4.348
pull
Entries 88
Mean −10.29
Std Dev 0

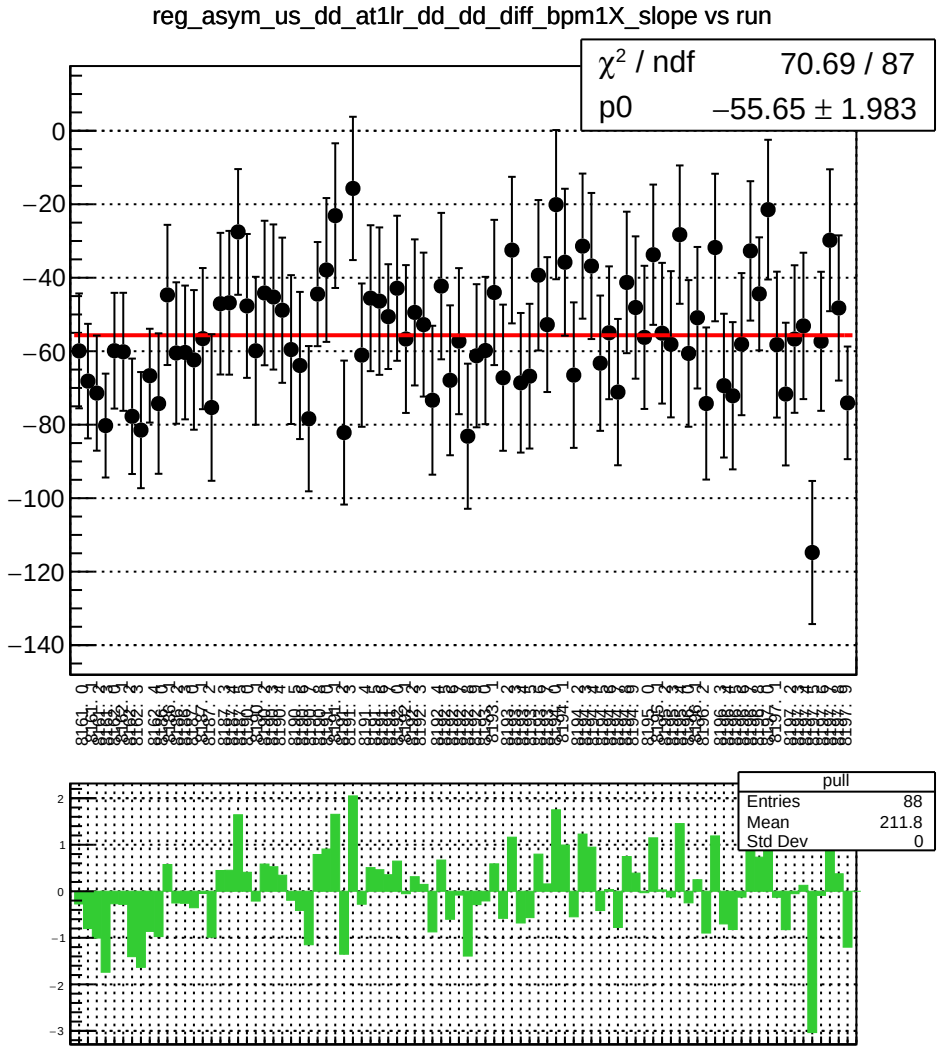

pull1D
Entries 88
Mean 0.00384
Std Dev 0.8304

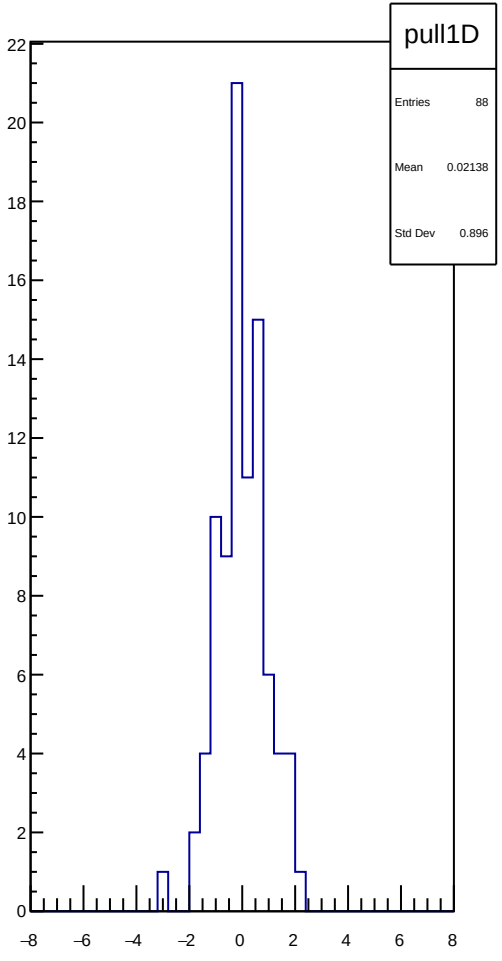

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.4 / 87
p0 −83.64 ± 2.622
pull
Entries 88
Mean −50.4
Std Dev 65.45

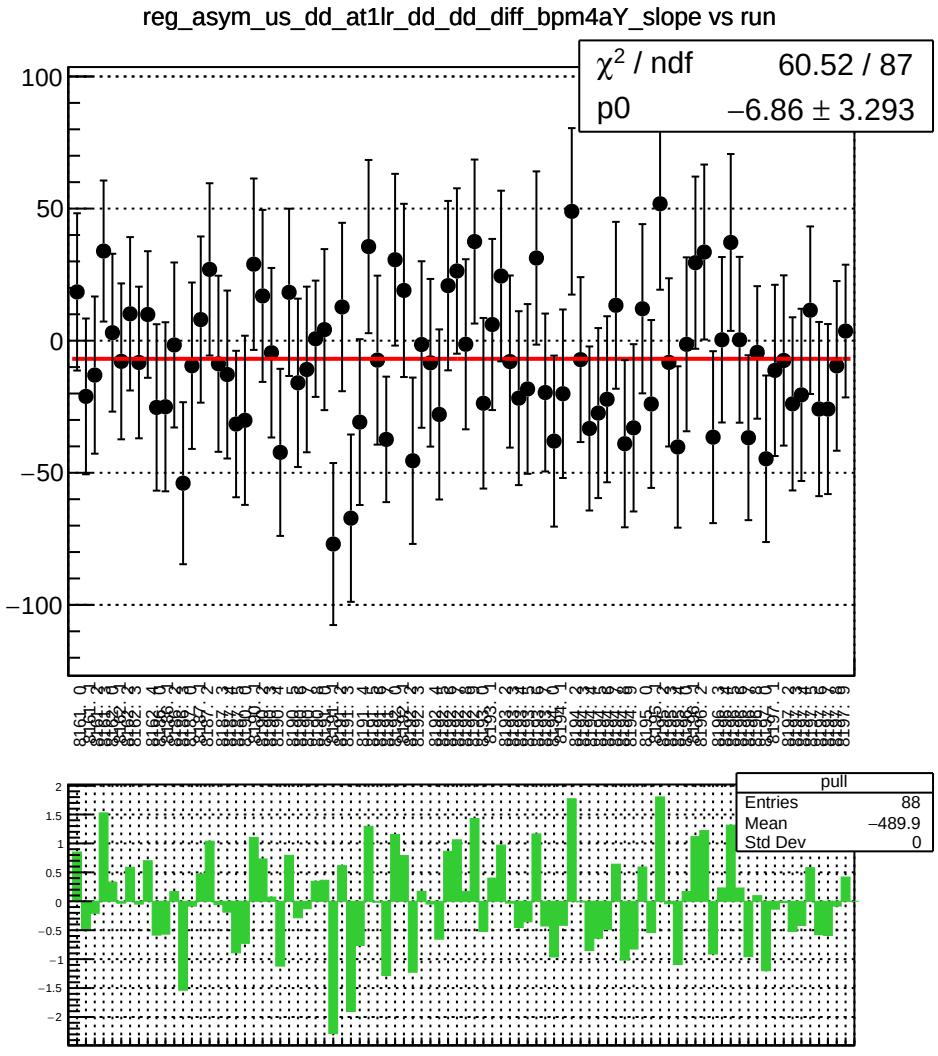

pull1D
Entries 88
Mean −0.00666
Std Dev 0.7642

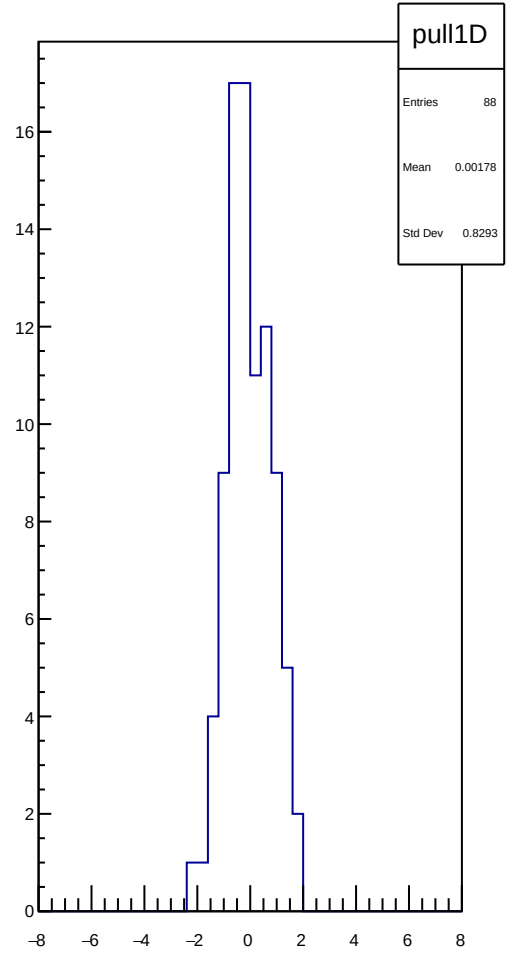

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.29 / 87
p0 6.635 ± 4.685
150
100
50
0
−50
−100
pull
Entries 88
Mean −5.806
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.00434
Std Dev 0.8277
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

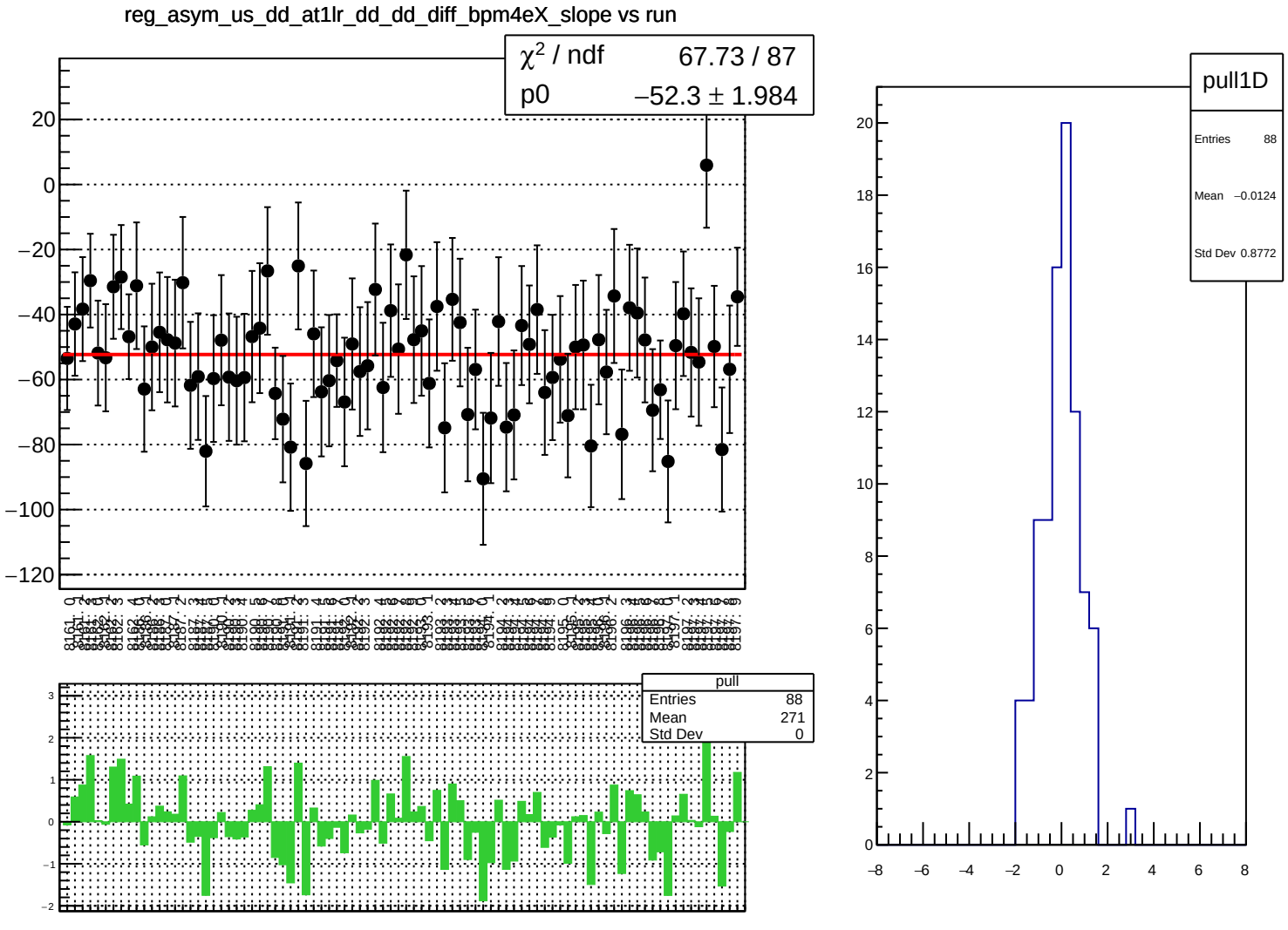

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 95.24 / 87
p0 32.54 ± 0.2116
pull
Entries 88
Mean −9804
Std Dev 0
pull1D
Entries 88
Mean 0.0009905
Std Dev 1.04

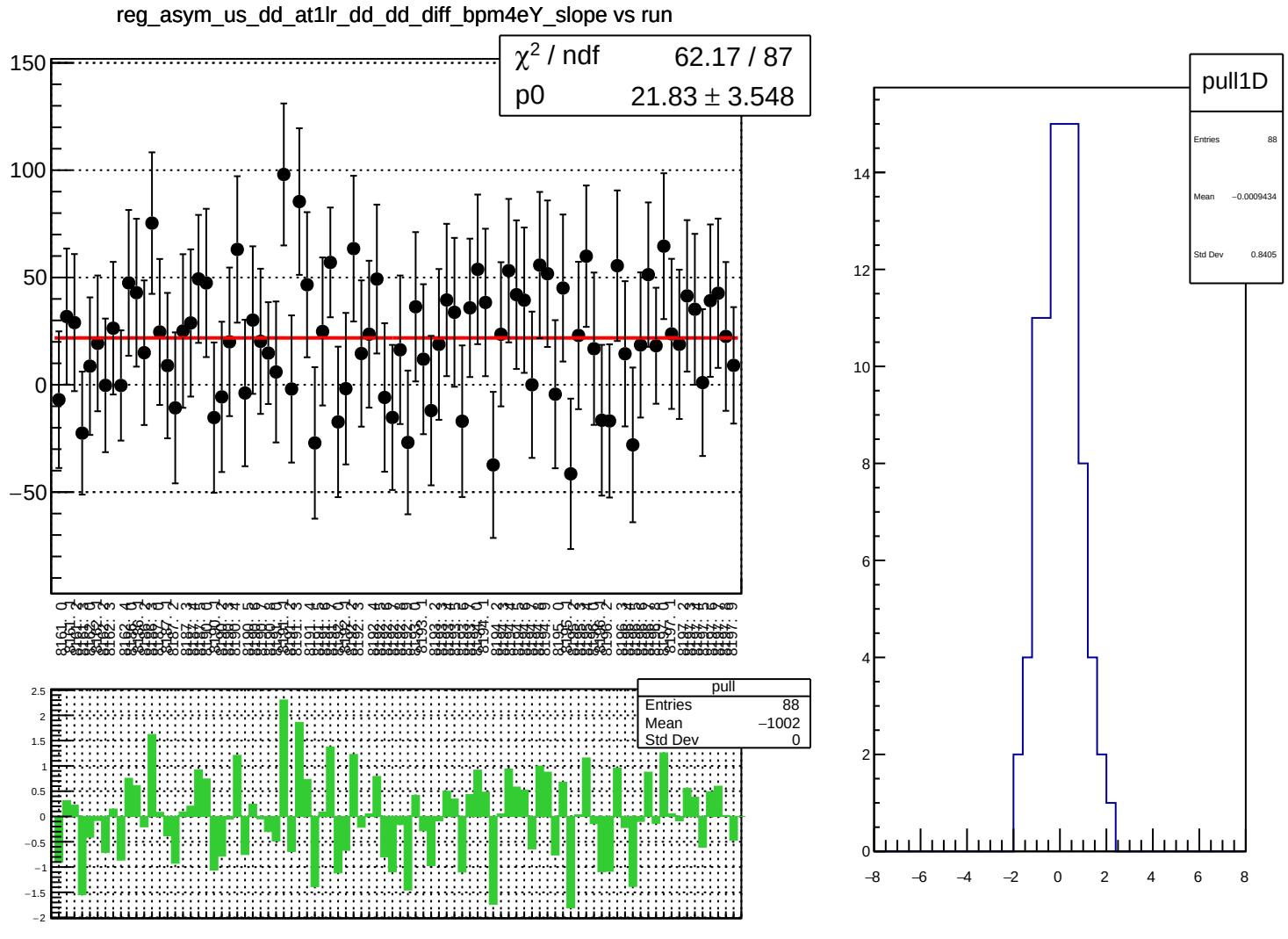

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 70.69 / 87
p0 −55.65 ± 1.983
pull
Entries 88
Mean 211.8
Std Dev 0

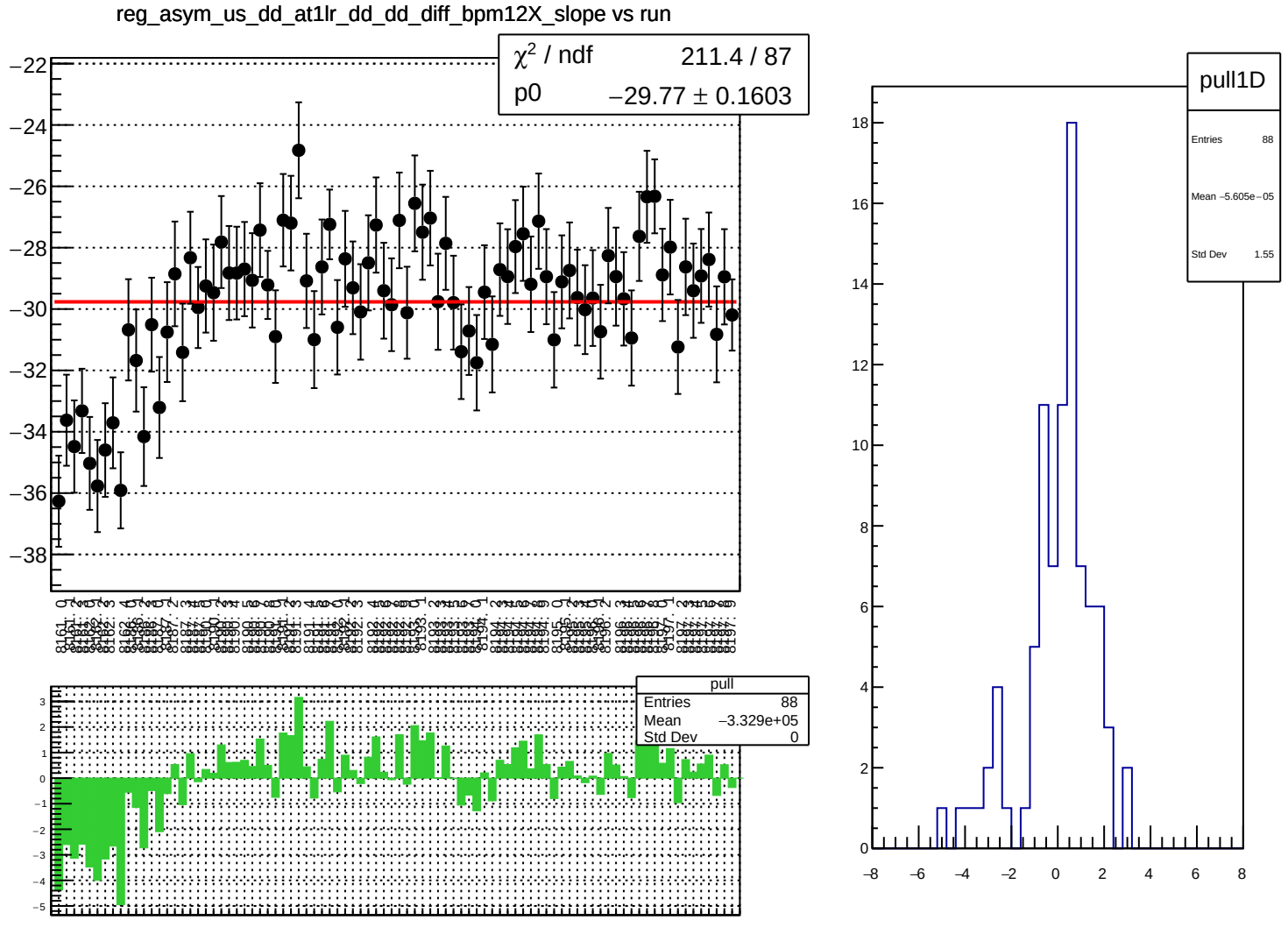

pull1D
Entries 88
Mean 0.02138
Std Dev 0.896

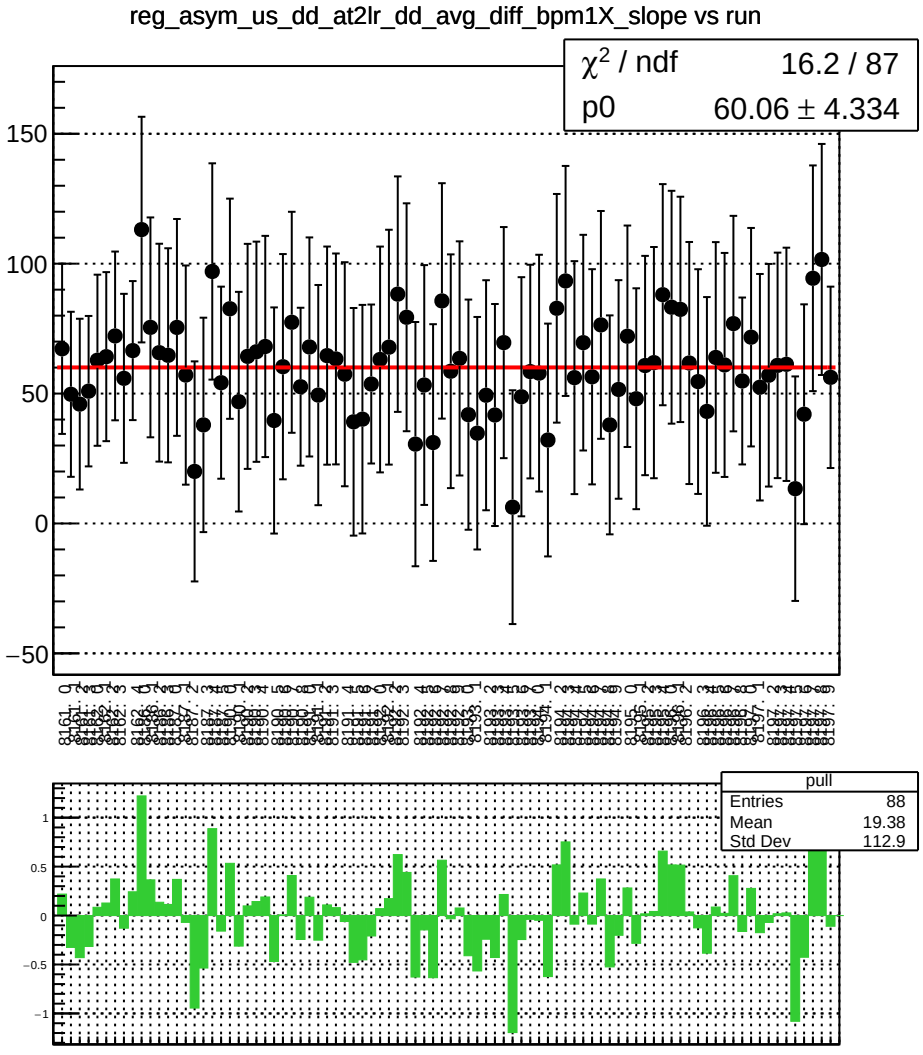

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.52 / 87
p0 −6.86 ± 3.293
pull
Entries 88
Mean −489.9
Std Dev 0

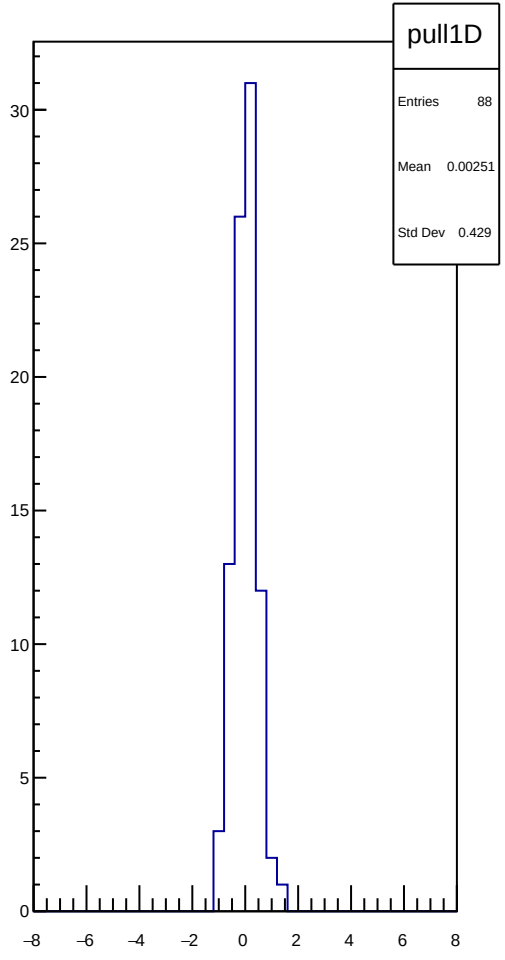

pull1D
Entries 88
Mean 0.00178
Std Dev 0.8293

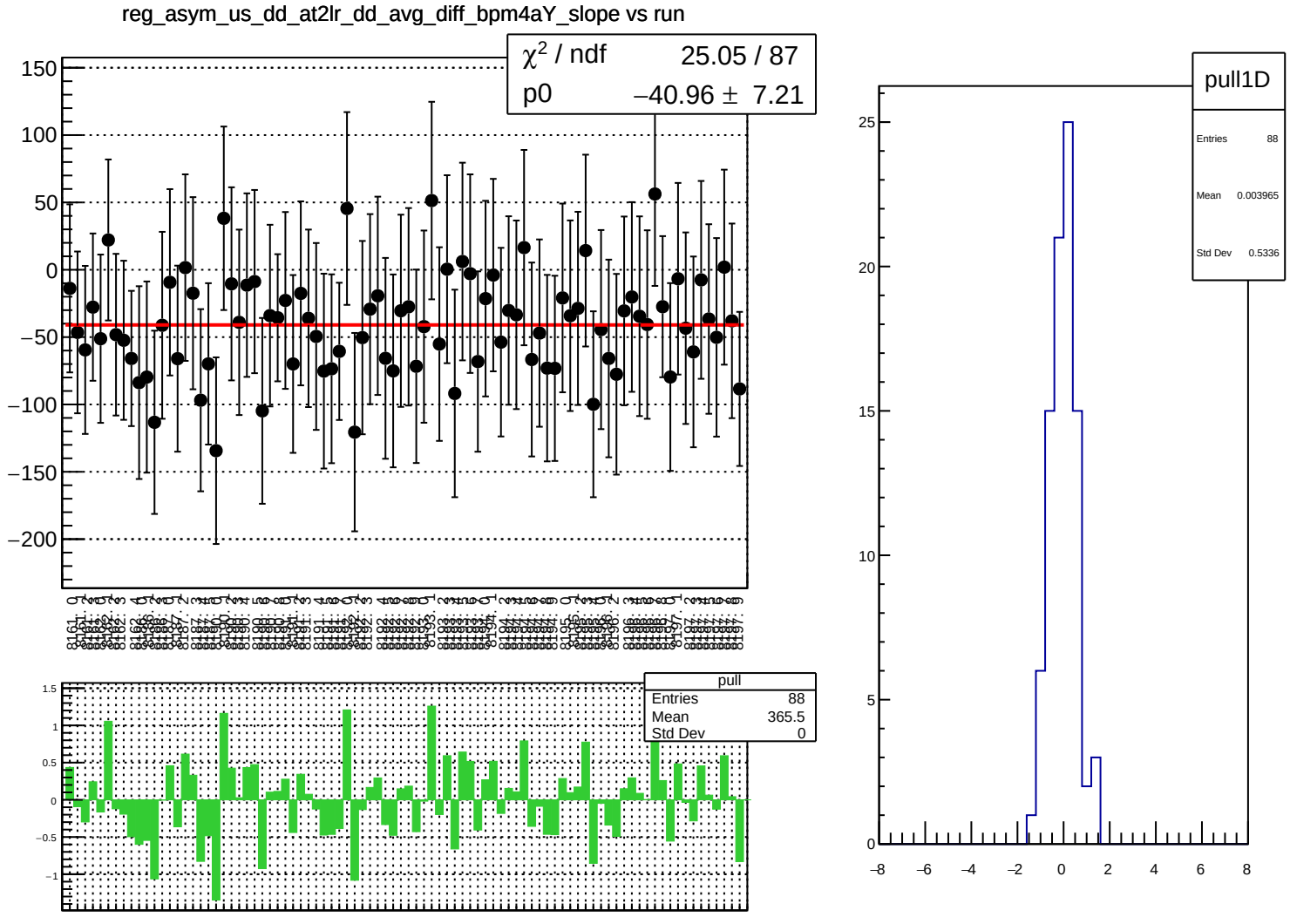

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.73 / 87
p0 −52.3 ± 1.984
pull
Entries 88
Mean 271
Std Dev 0
pull1D
Entries 88
Mean −0.0124
Std Dev 0.8772

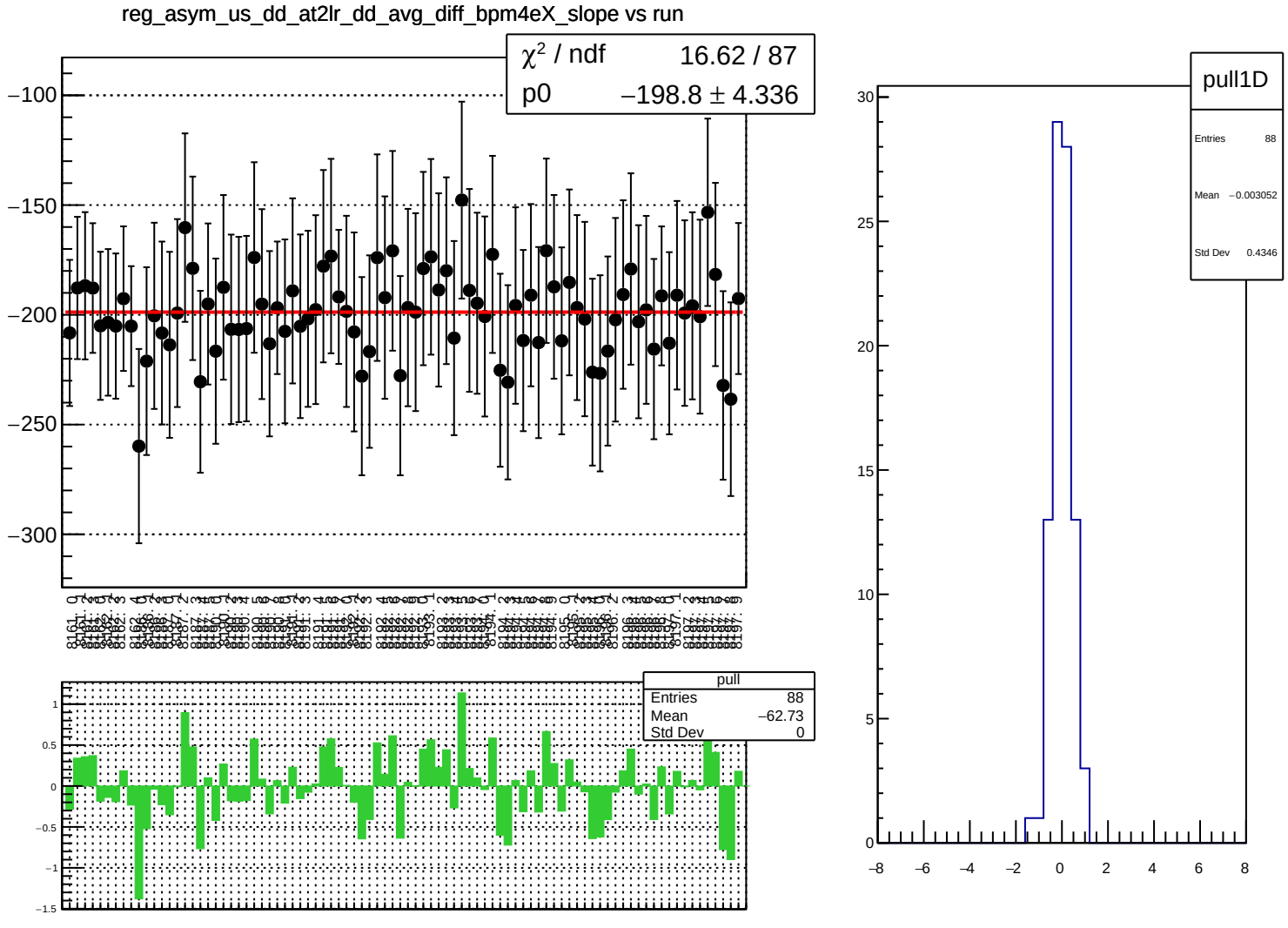

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.17 / 87
p0 21.83 ± 3.548
150
100
50
0
−50
pull
Entries 88
Mean −1002
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.0009434
Std Dev 0.8405
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

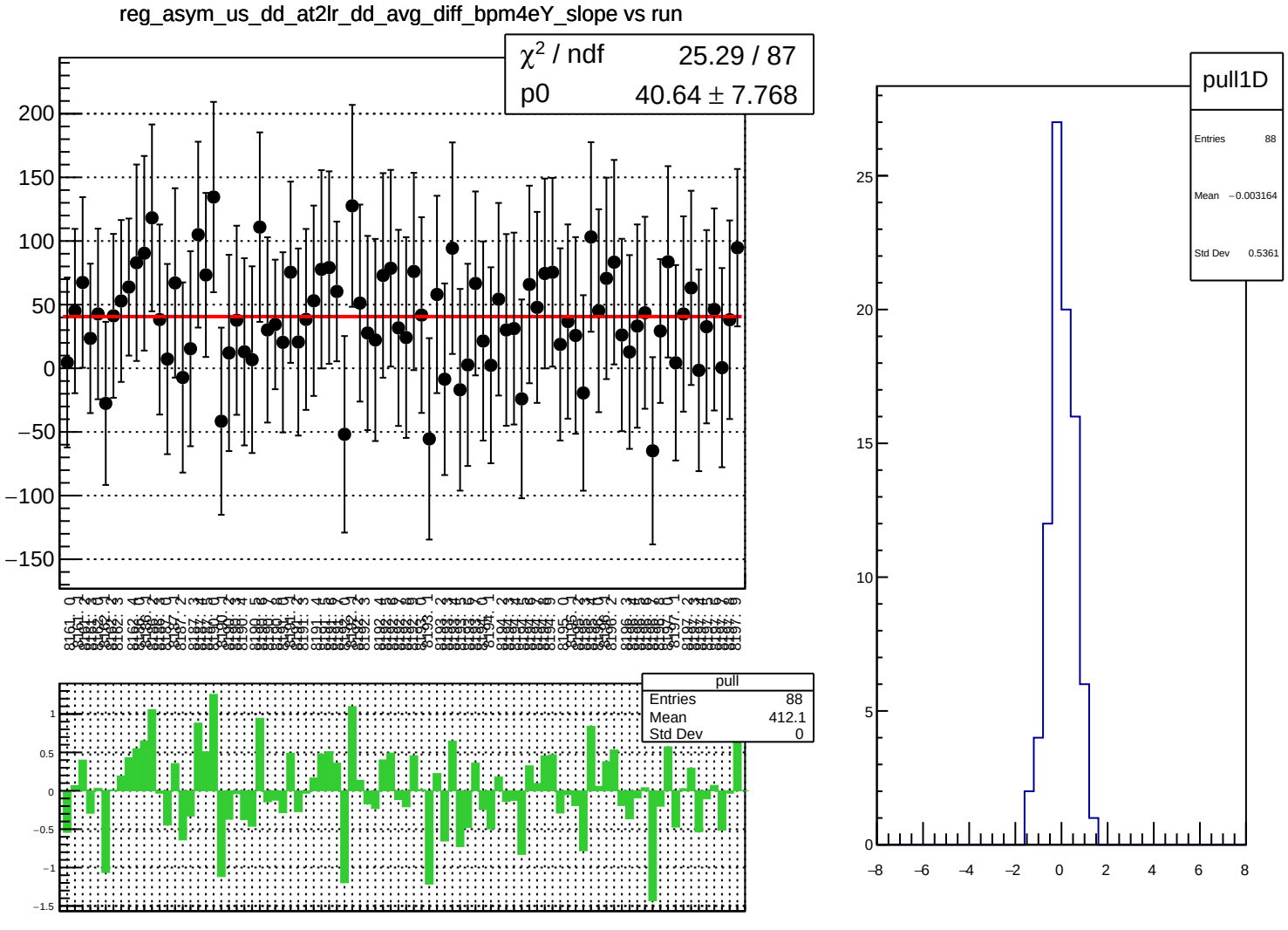

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 211.4 / 87
p0 −29.77 ± 0.1603
pull
Entries 88
Mean −3.329e+05
Std Dev 0
pull1D
Entries 88
Mean −5.605e−05
Std Dev 1.55

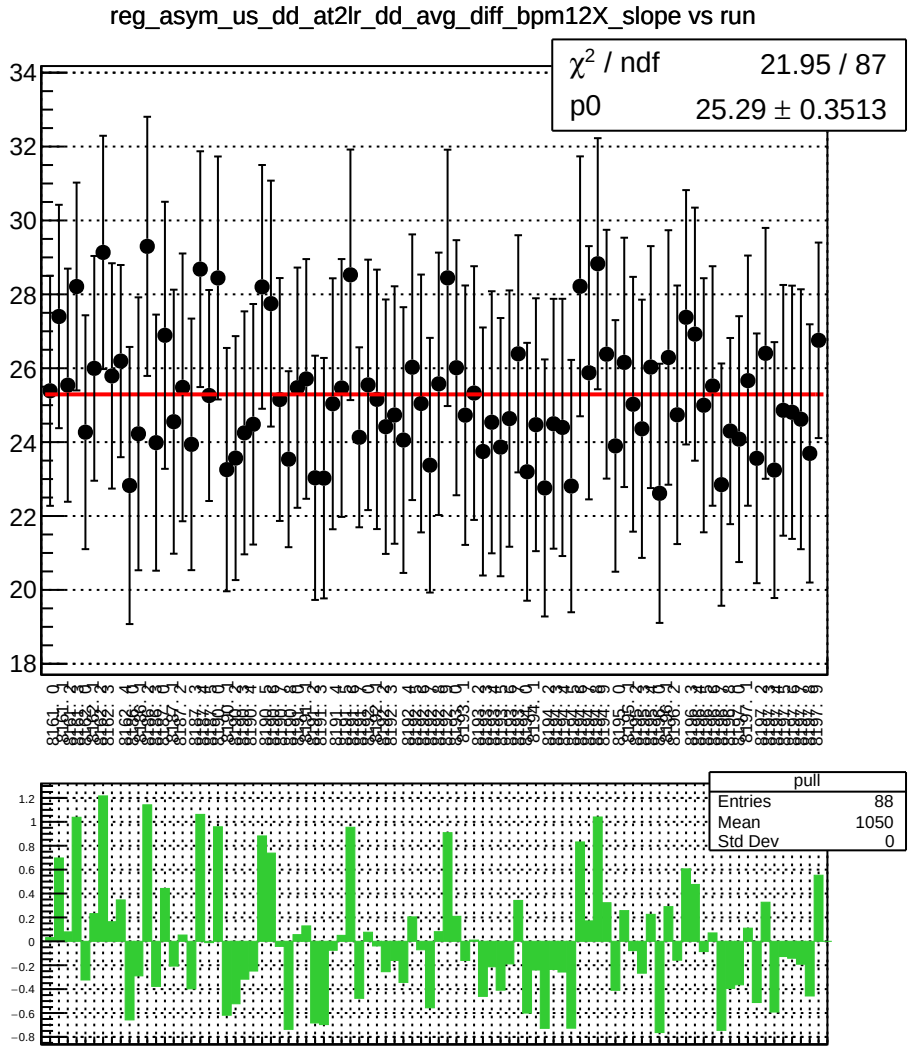

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 16.2 / 87
p0 60.06 ± 4.334
150
100
50
0
−50
pull
Entries 88
Mean 19.38
Std Dev 112.9
1
0.5
0
−0.5
−1

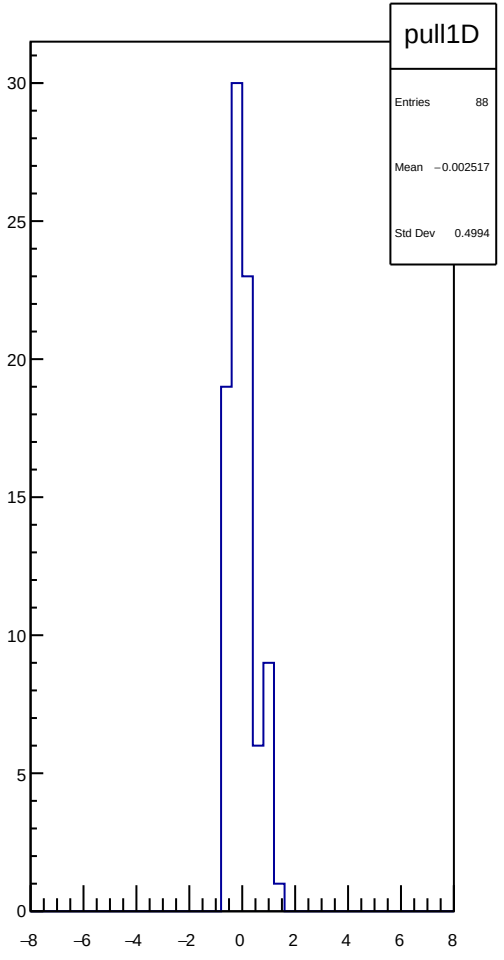

pull1D
Entries 88
Mean 0.00251
Std Dev 0.429
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

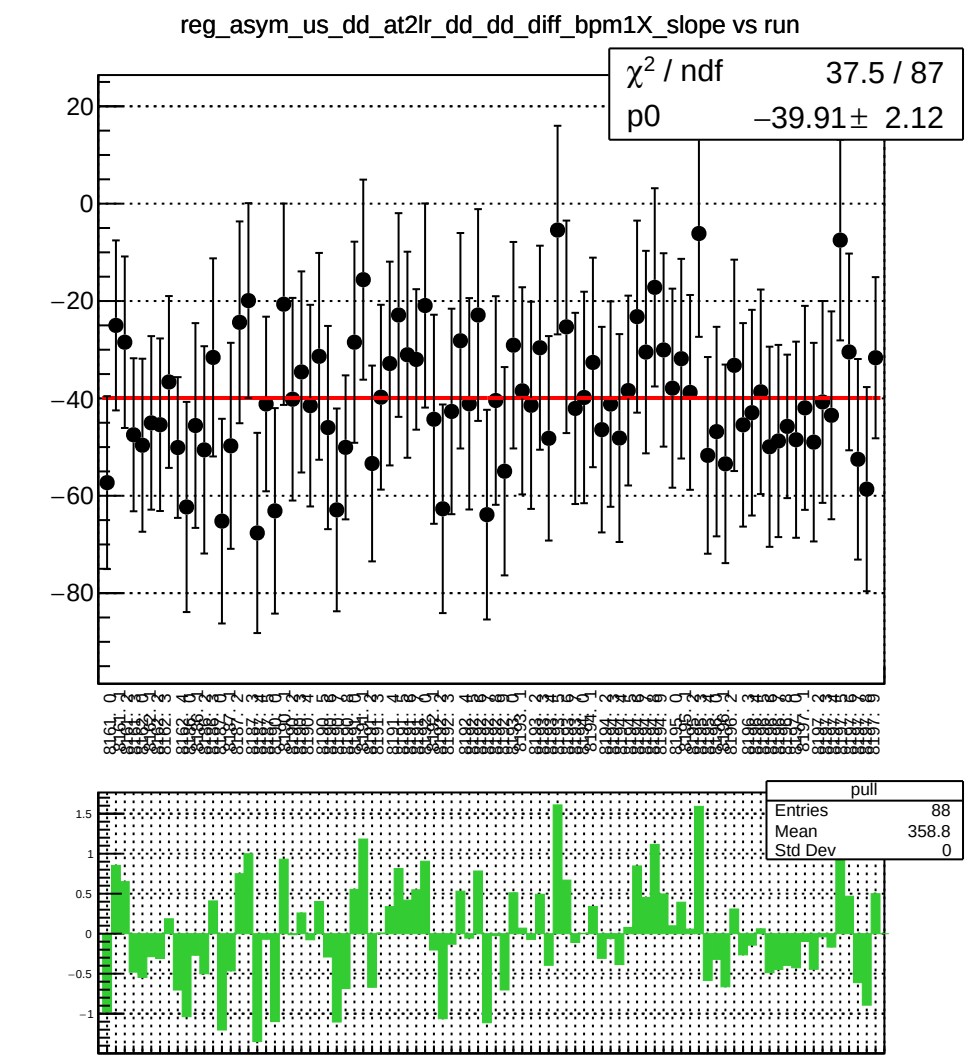

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.05 / 87
p0 −40.96 ± 7.21
pull
Entries 88
Mean 365.5
Std Dev 0
pull1D
Entries 88
Mean 0.003965
Std Dev 0.5336

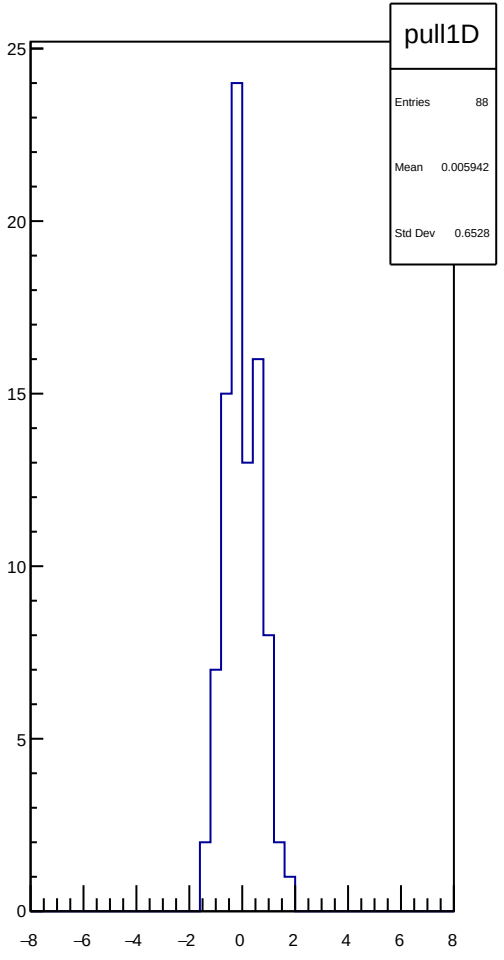

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.62 / 87
p0 −198.8 ± 4.336
−100
−150
−200
−250
−300
pull
Entries 88
Mean −62.73
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.003052
Std Dev 0.4346
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

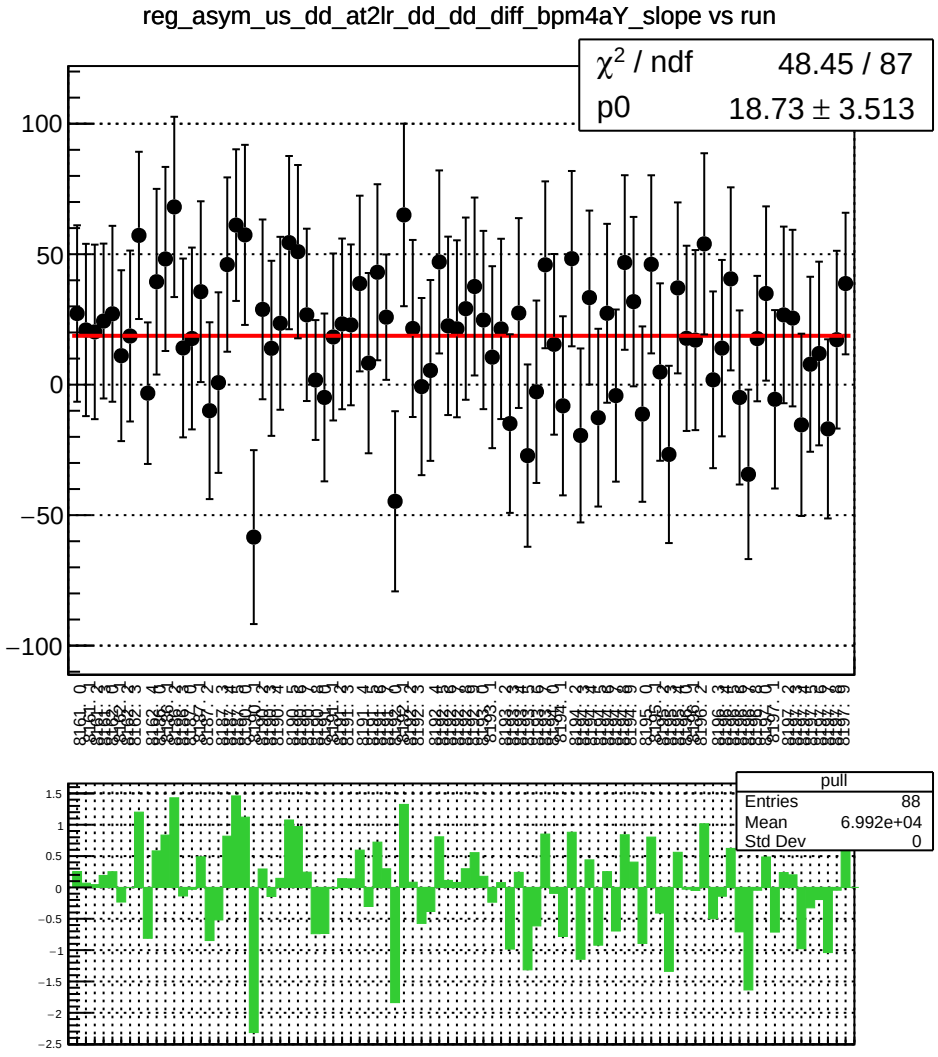

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.29 / 87
p0 40.64 ± 7.768
pull
Entries 88
Mean 412.1
Std Dev 0
pull1D
Entries 88
Mean −0.003164
Std Dev 0.5361

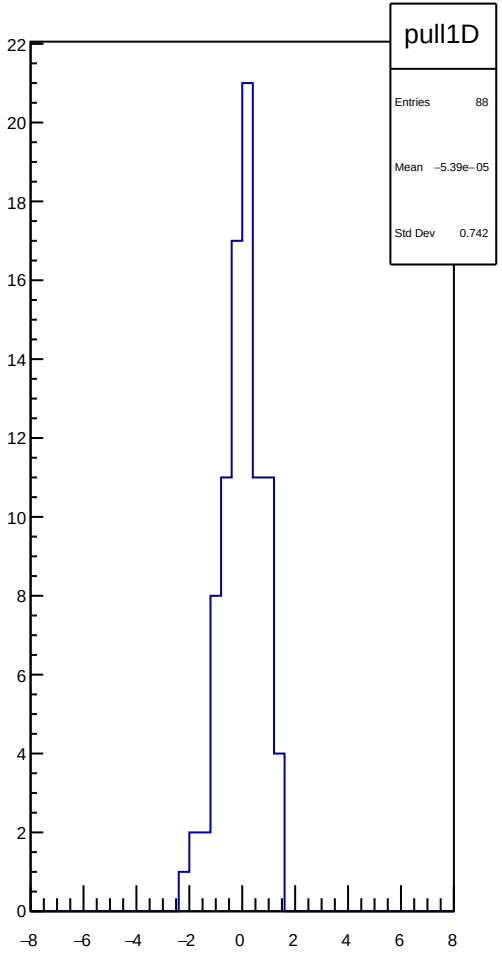

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 21.95 / 87
p0 25.29 ± 0.3513
pull
Entries 88
Mean 1050
Std Dev 0

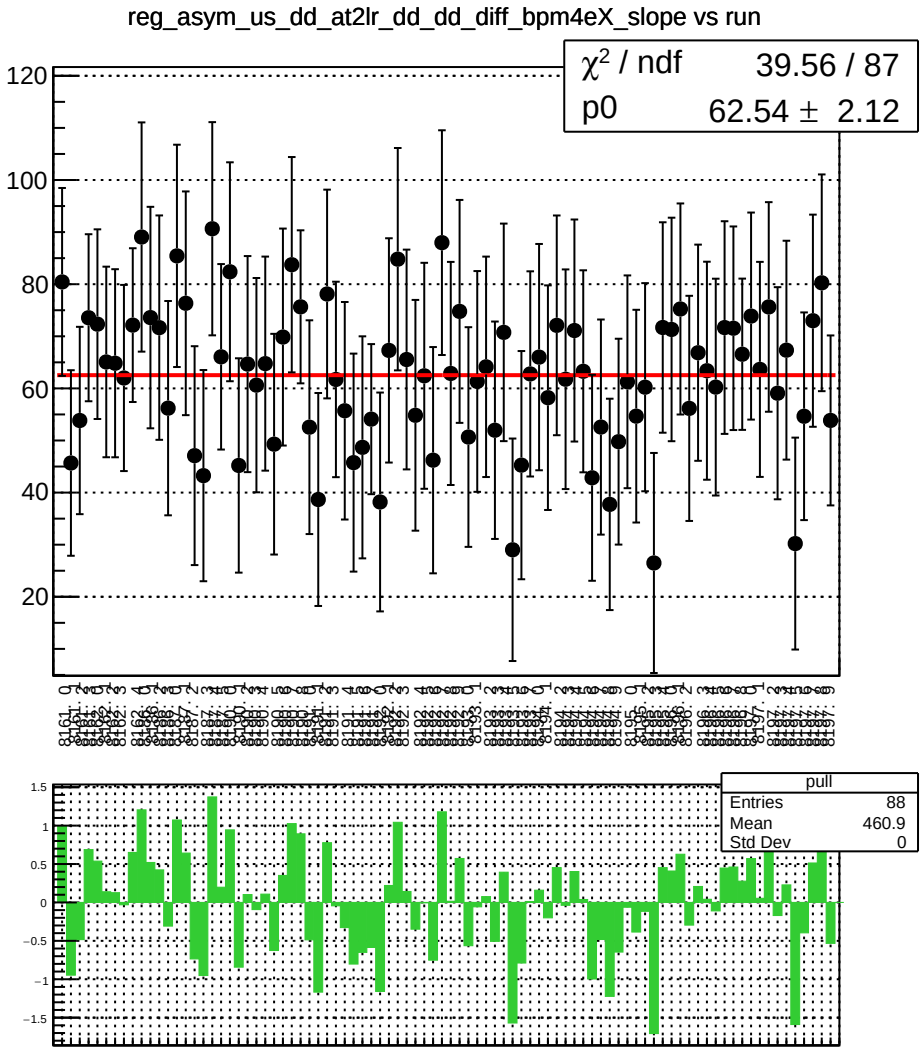

pull1D
Entries 88
Mean −0.002517
Std Dev 0.4994

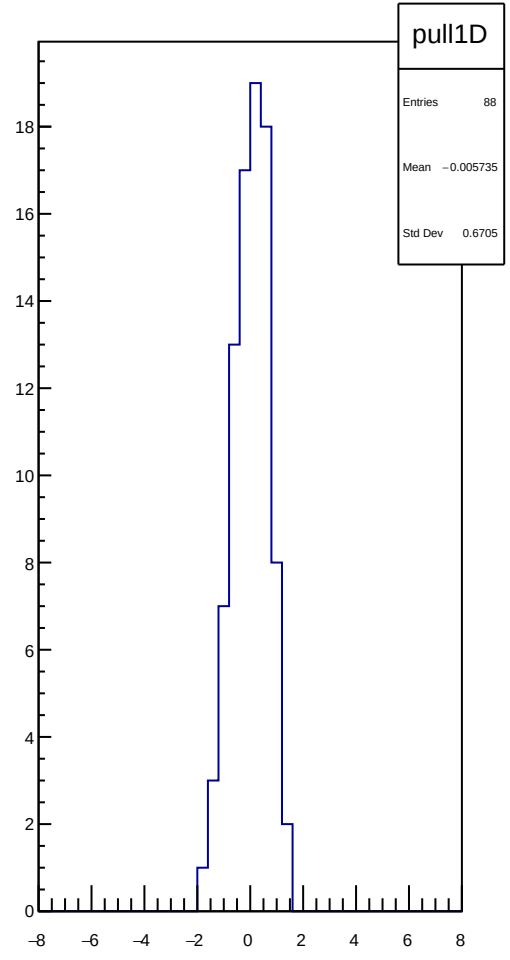

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 37.5 / 87
p0 −39.91 ± 2.12
pull
Entries 88
Mean 358.8
Std Dev 0

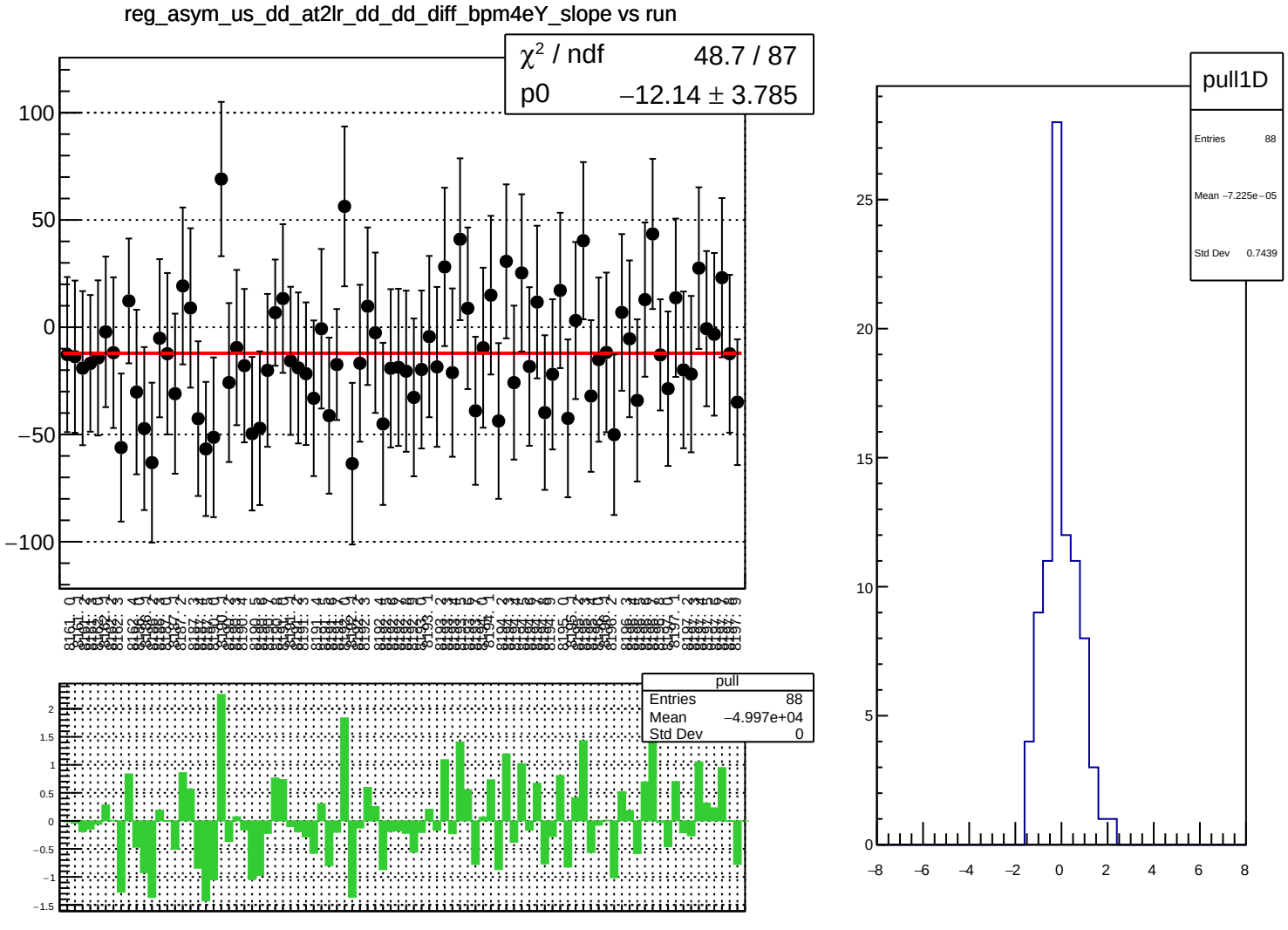

pull1D
Entries 88
Mean 0.005942
Std Dev 0.6528

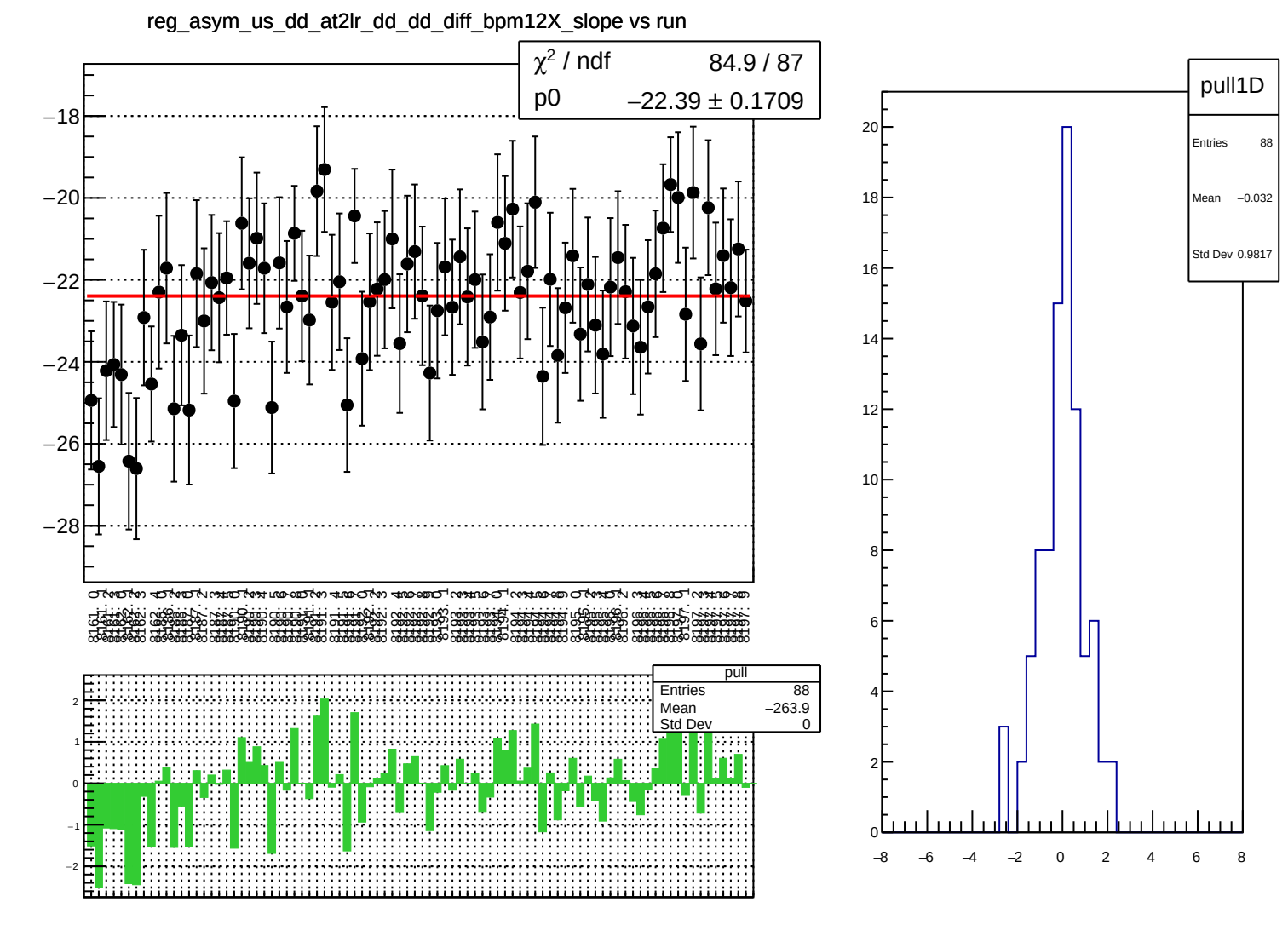

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.45 / 87
p0 18.73 ± 3.513
pull
Entries 88
Mean 6.992e+04
Std Dev 0

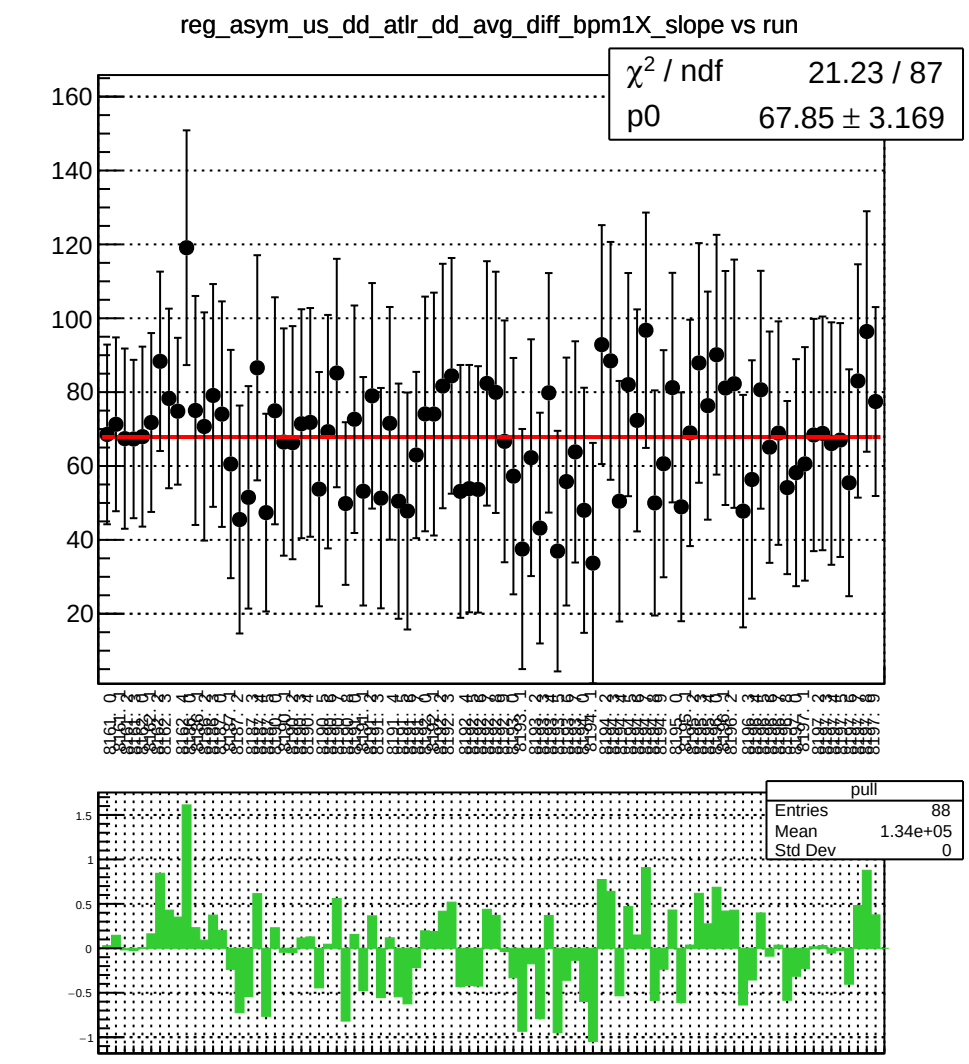

pull1D
Entries 88
Mean −5.39e−05
Std Dev 0.742

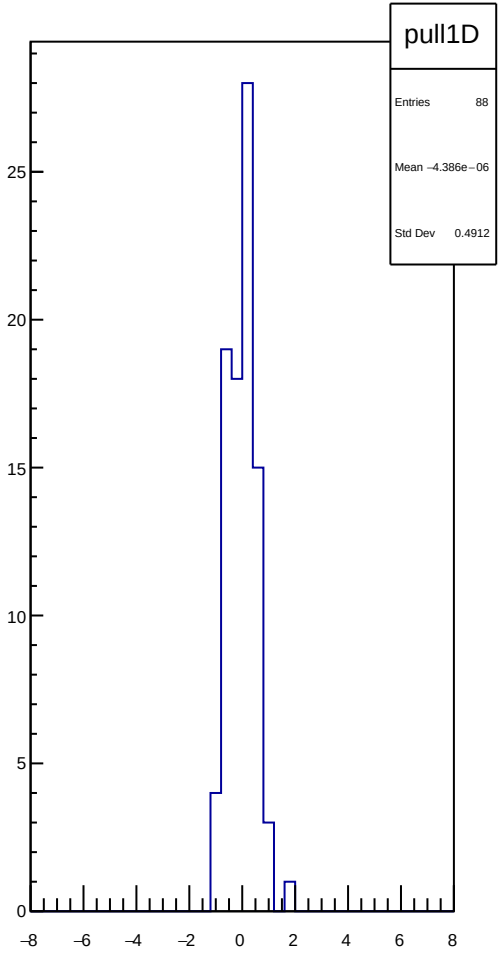

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.56 / 87
p0 62.54 ± 2.12
pull
Entries 88
Mean 460.9
Std Dev 0

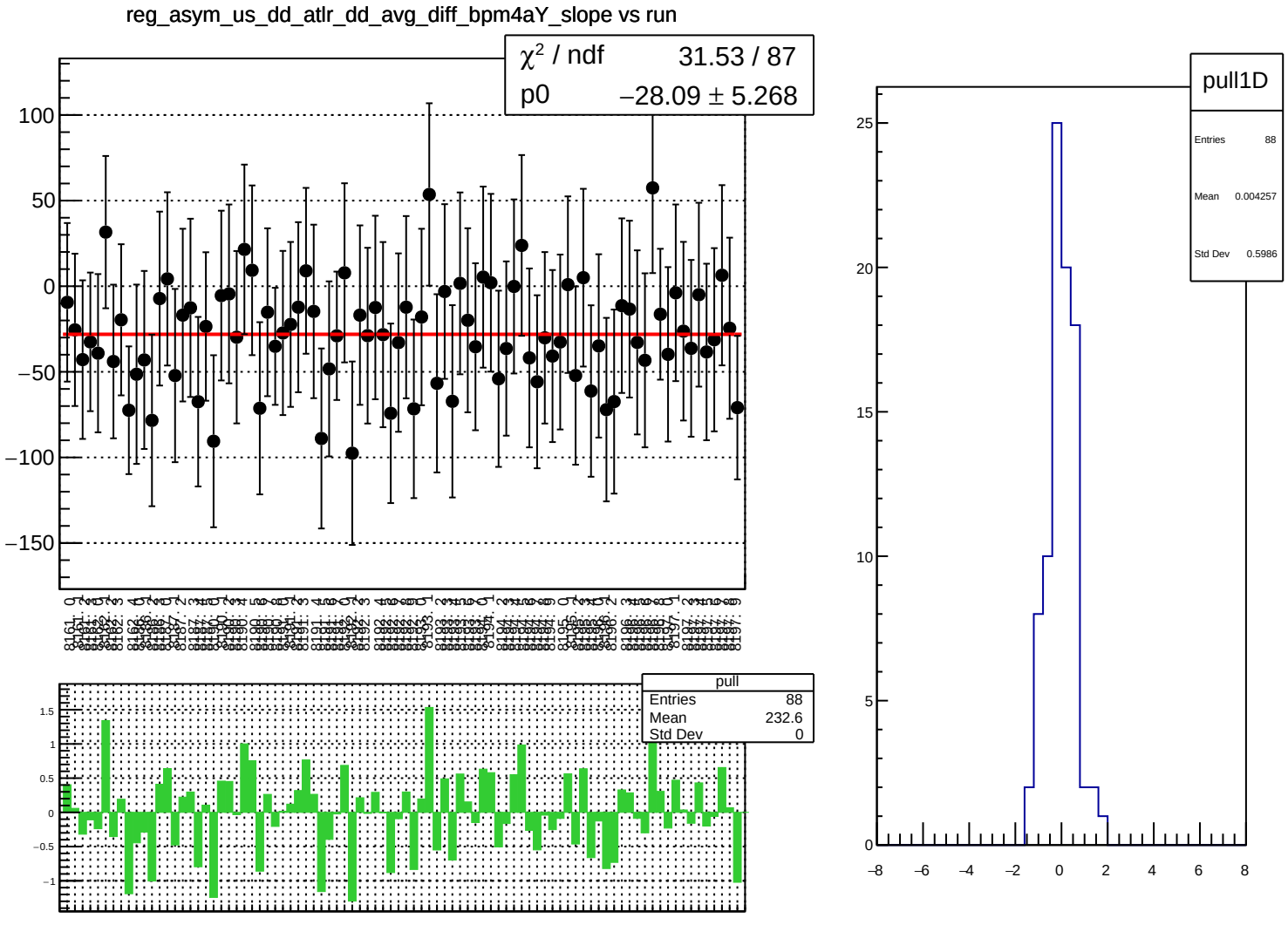

pull1D
Entries 88
Mean −0.005735
Std Dev 0.6705

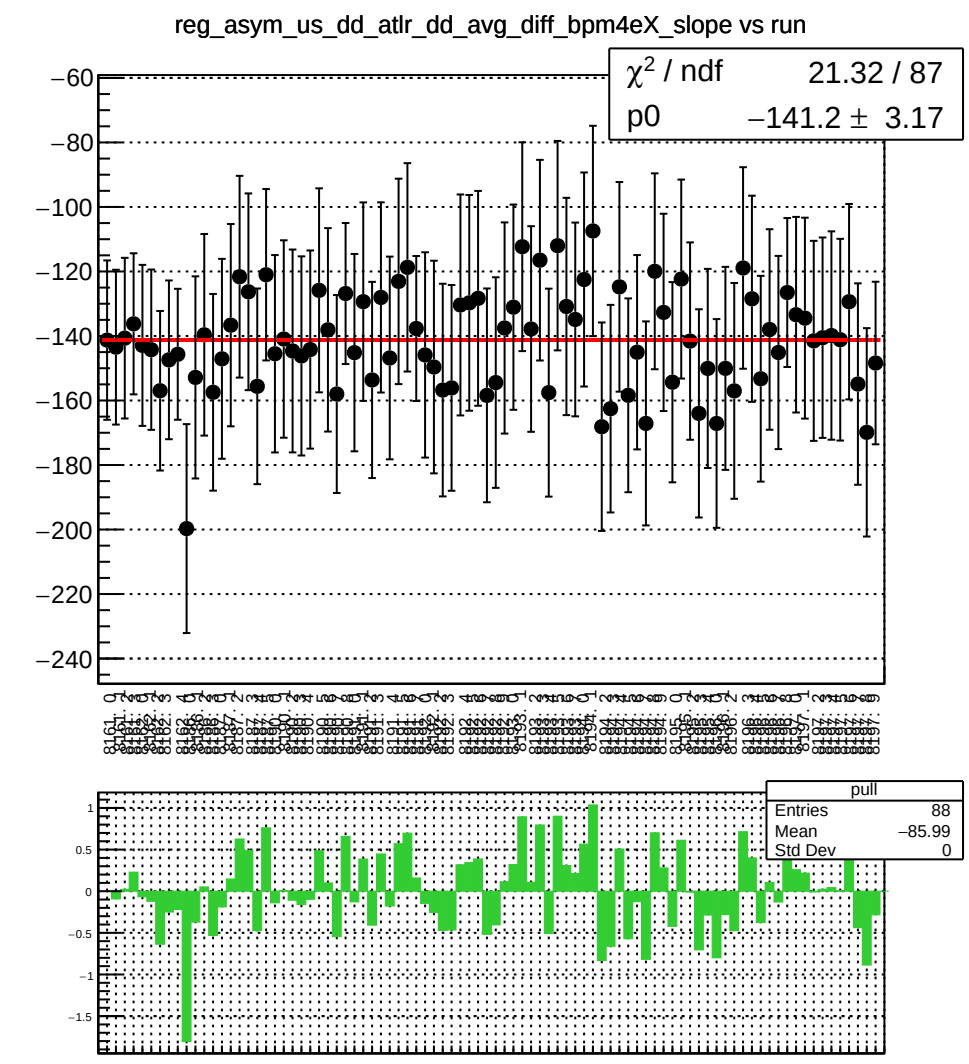

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.7 / 87
p0 −12.14 ± 3.785
100
50
0
−50
−100
pull
Entries 88
Mean −4.997e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −7.225e−05
Std Dev 0.7439
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

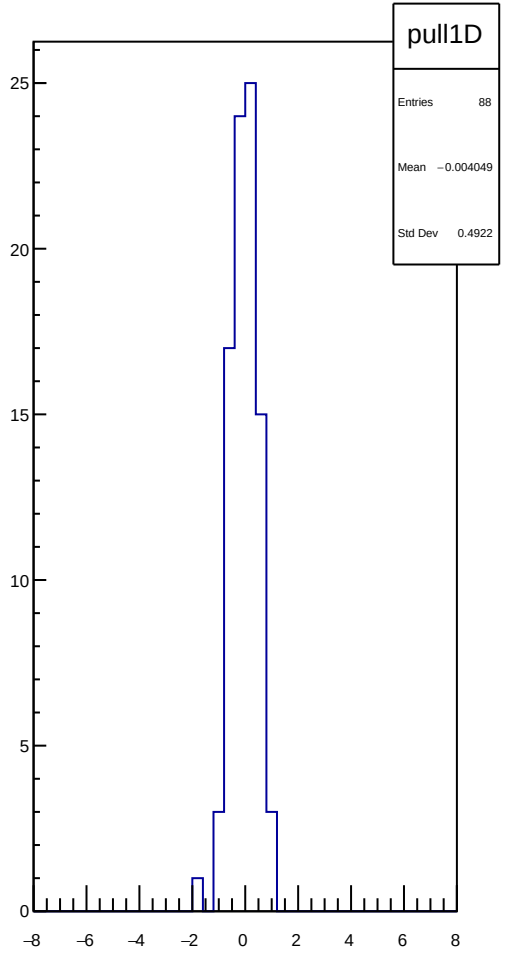

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 84.9 / 87
p0 −22.39 ± 0.1709
pull
Entries 88
Mean −263.9
Std Dev 0
pull1D
Entries 88
Mean −0.032
Std Dev 0.9817

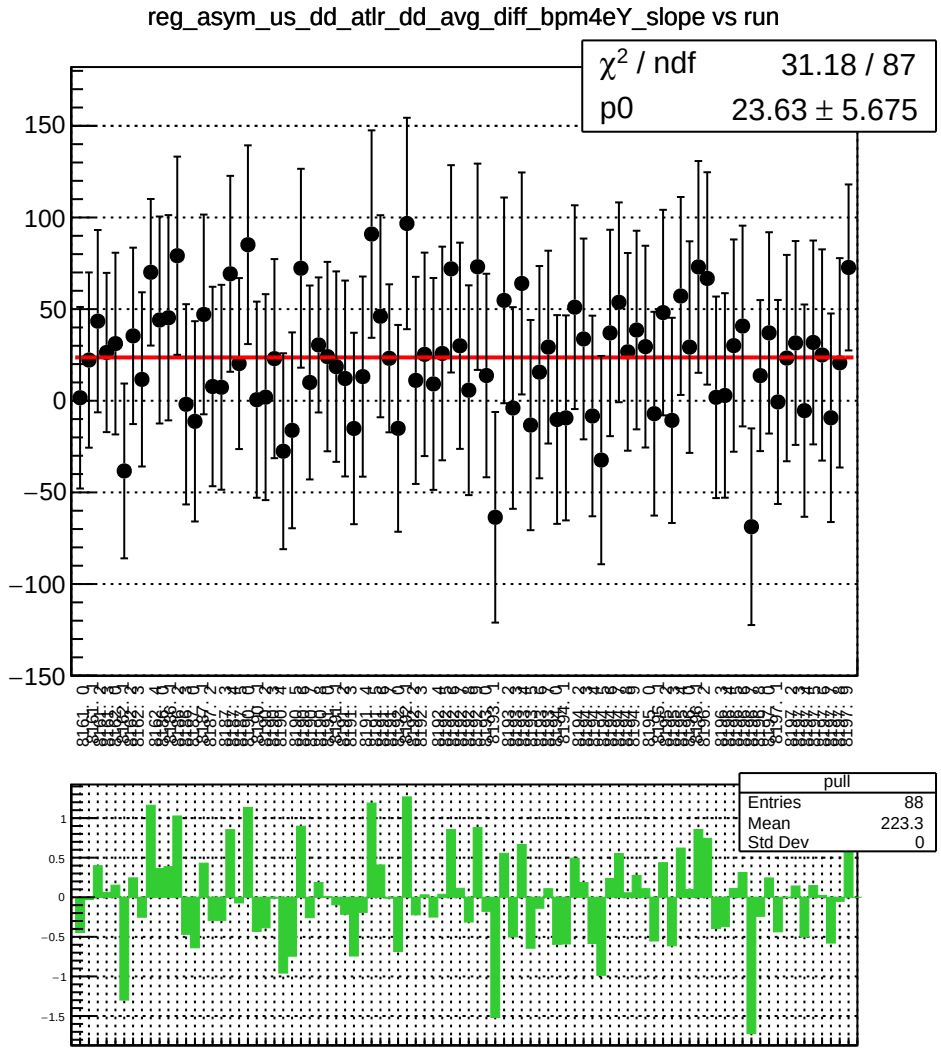

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 21.23 / 87
p0 67.85 ± 3.169
pull
Entries 88
Mean 1.34e+05
Std Dev 0

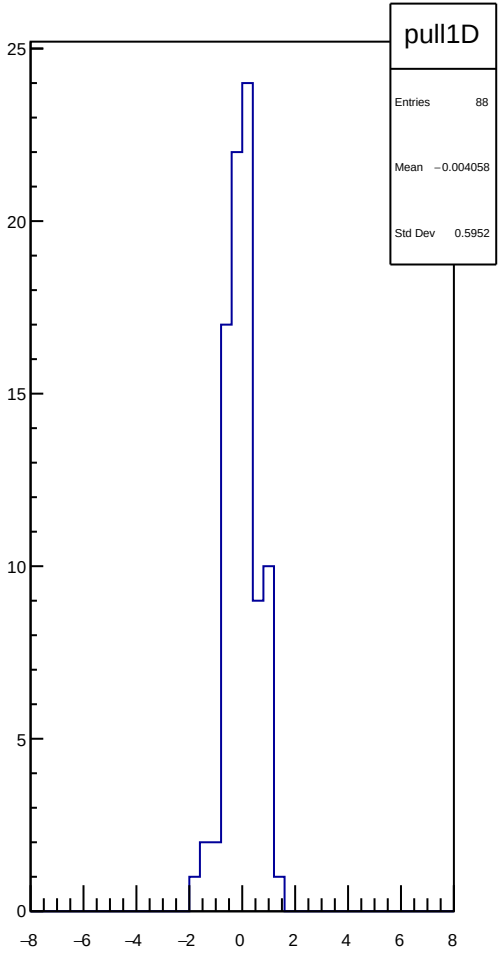

pull1D
Entries 88
Mean −4.386e−06
Std Dev 0.4912

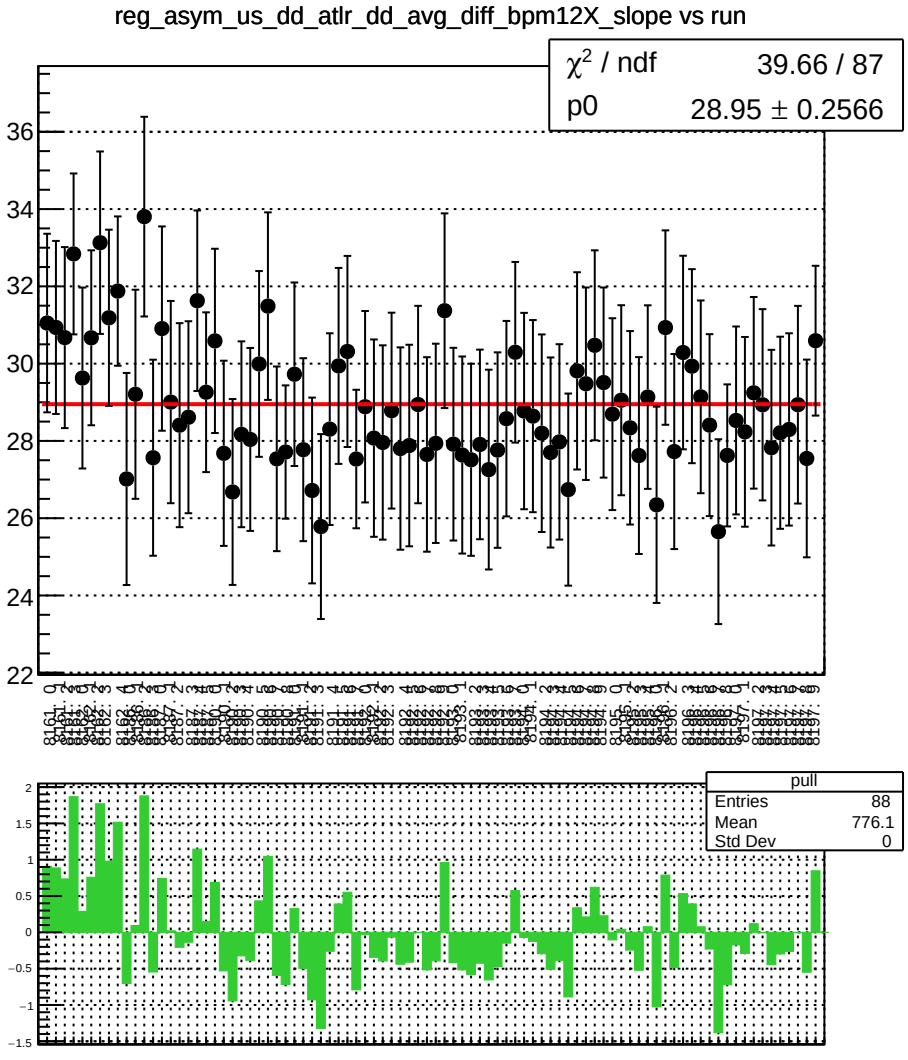

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.53 / 87
p0 −28.09 ± 5.268
pull
Entries 88
Mean 232.6
Std Dev 0
pull1D
Entries 88
Mean 0.004257
Std Dev 0.5986

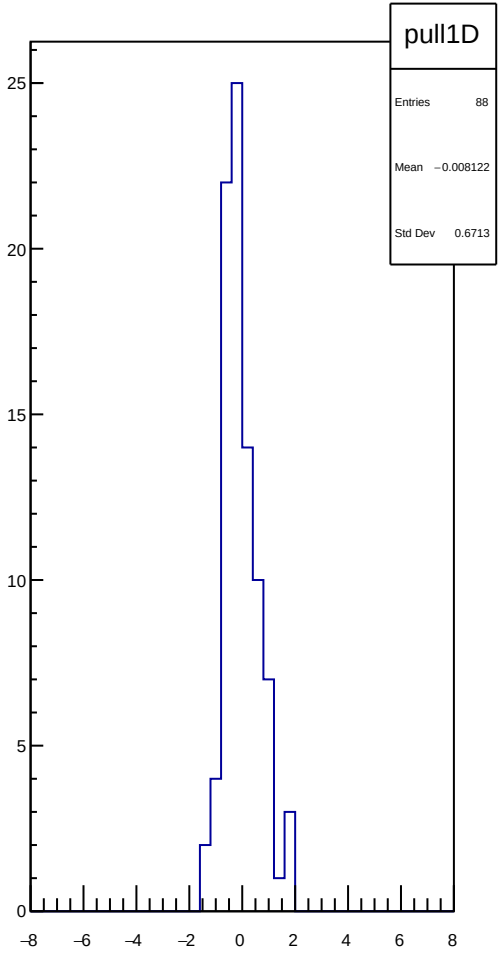

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.32 / 87
p0 −141.2 ± 3.17
pull
Entries 88
Mean −85.99
Std Dev 0

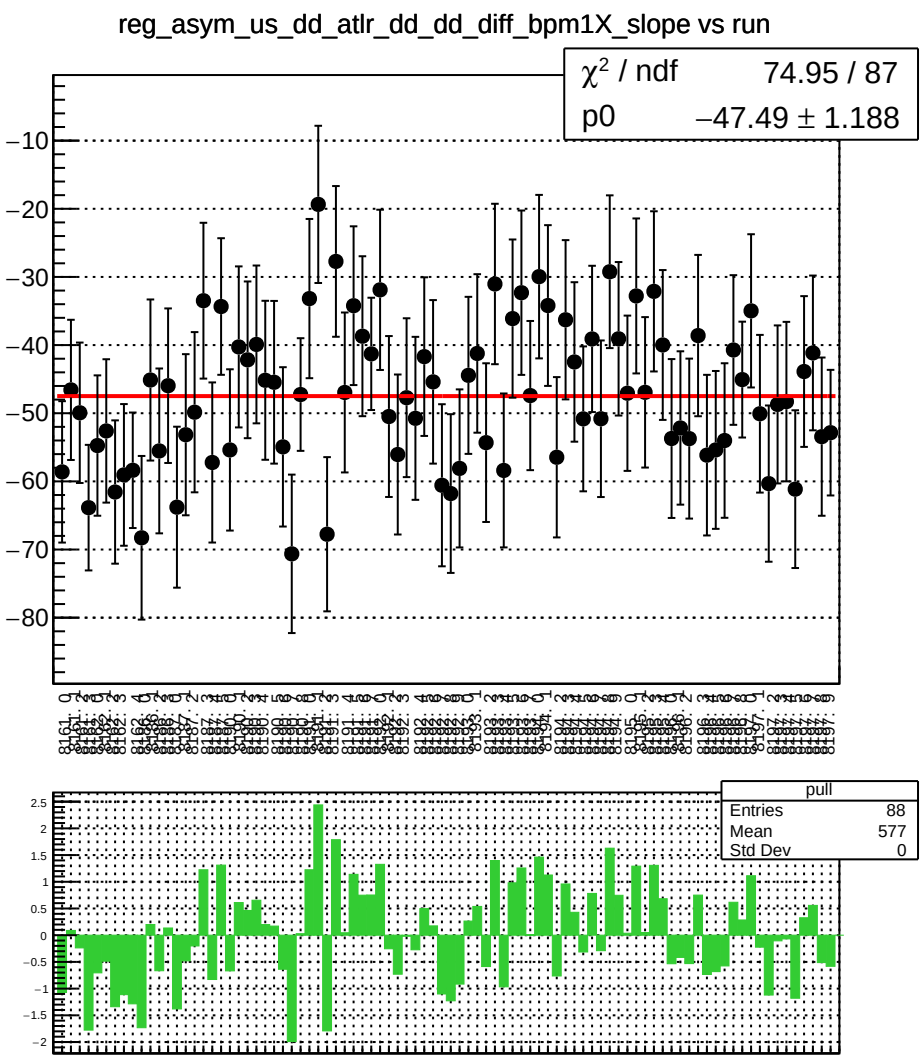

pull1D
Entries 88
Mean −0.004049
Std Dev 0.4922

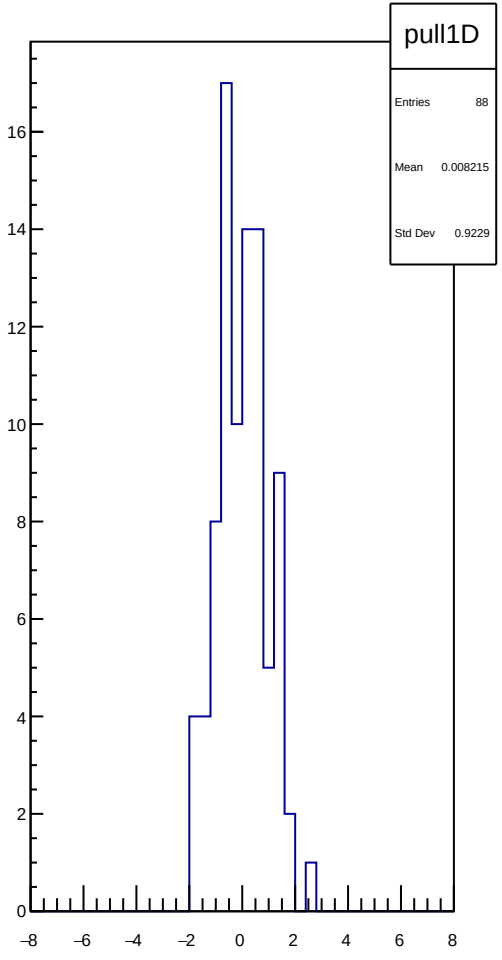

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.18 / 87
p0 23.63 ± 5.675
pull
Entries 88
Mean 223.3
Std Dev 0

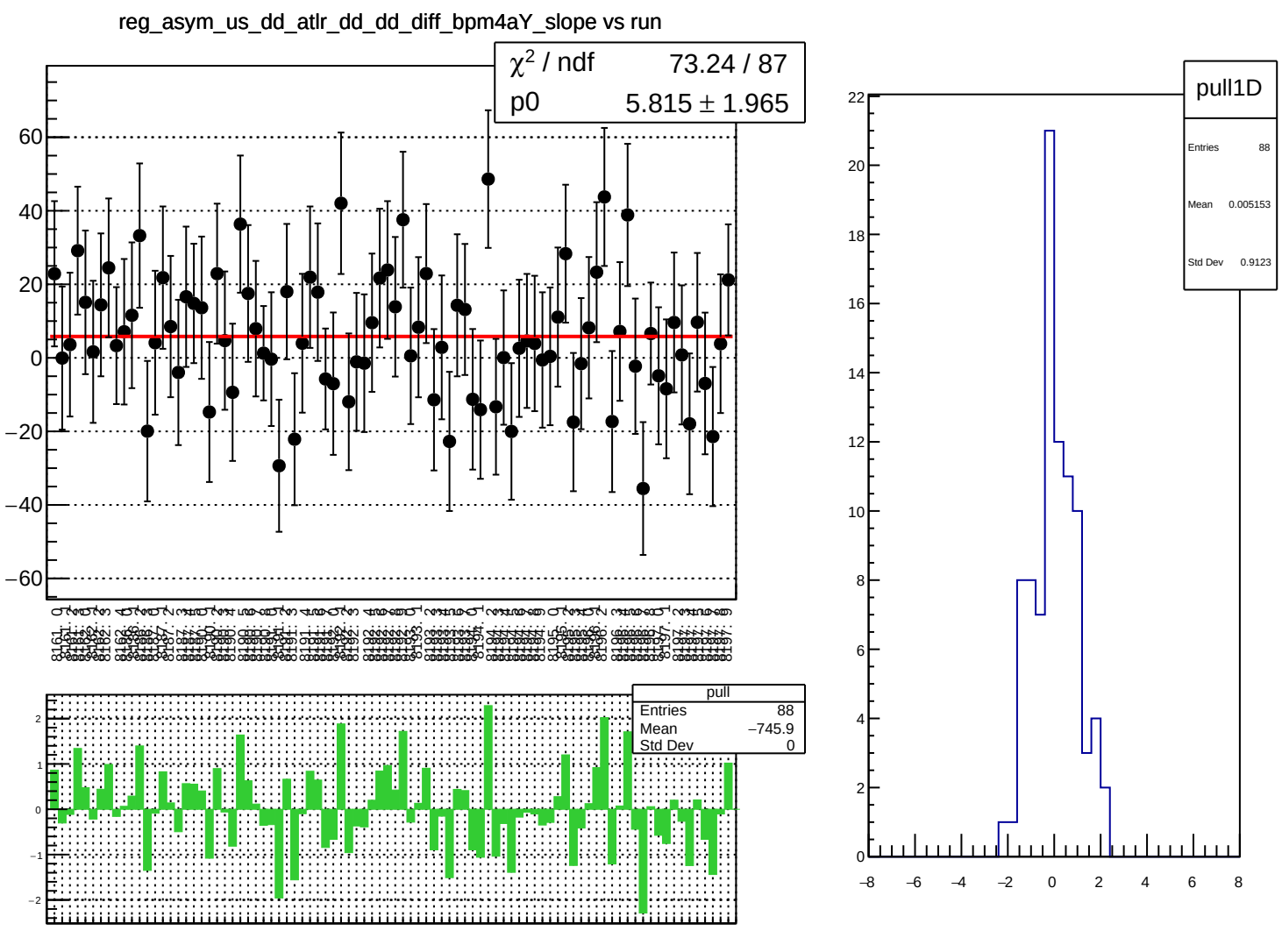

pull1D
Entries 88
Mean −0.004058
Std Dev 0.5952

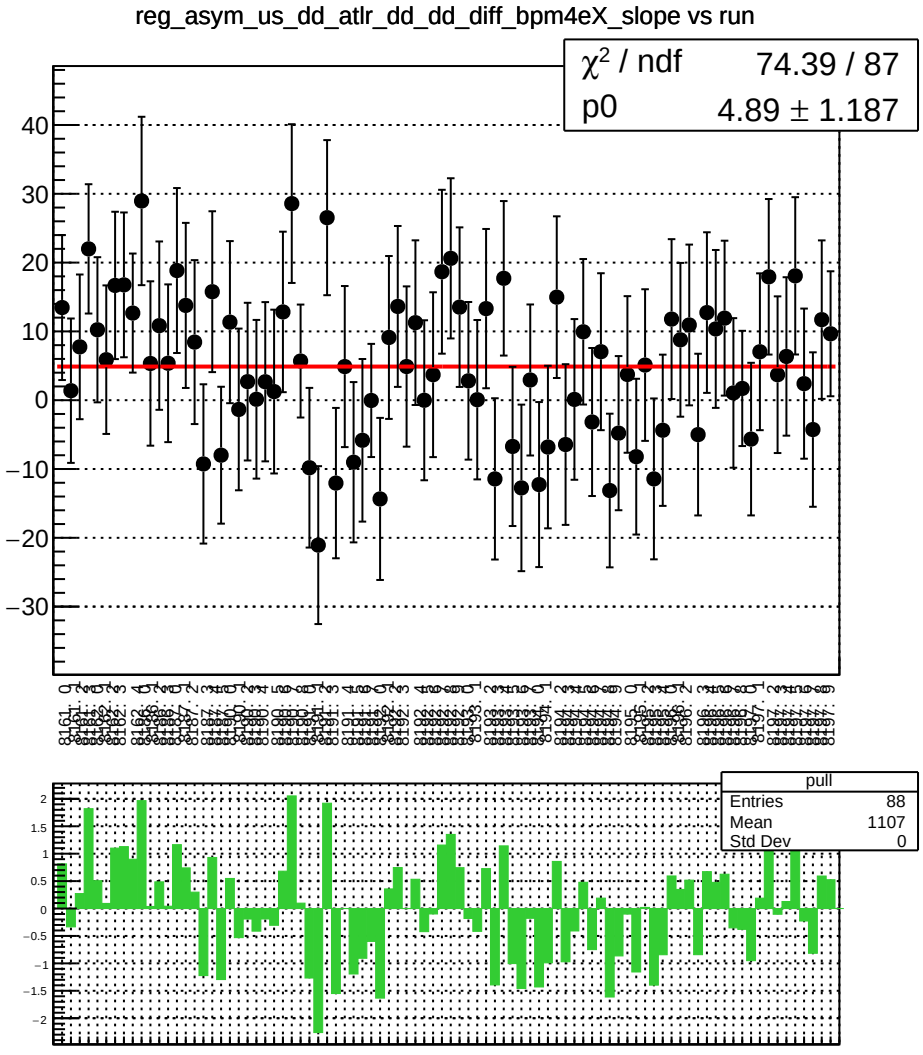

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 39.66 / 87
p0 28.95 ± 0.2566
pull
Entries 88
Mean 776.1
Std Dev 0

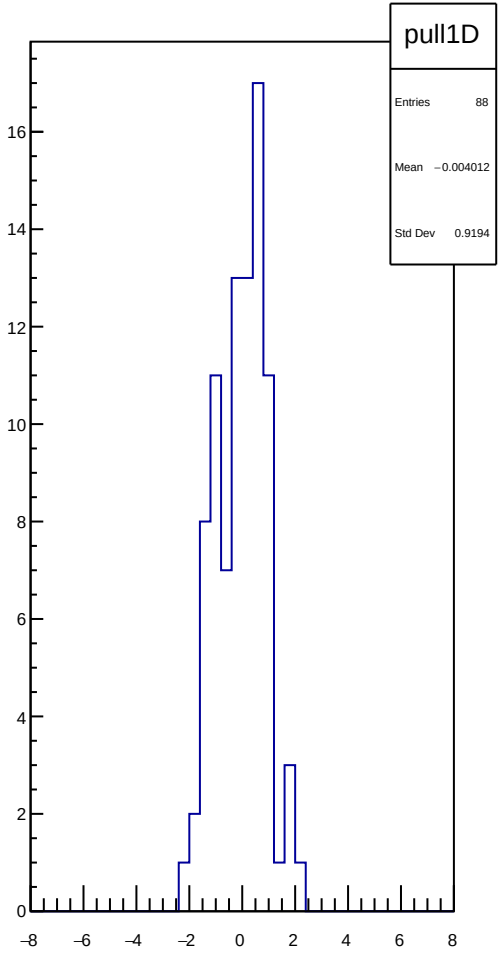

pull1D
Entries 88
Mean −0.008122
Std Dev 0.6713

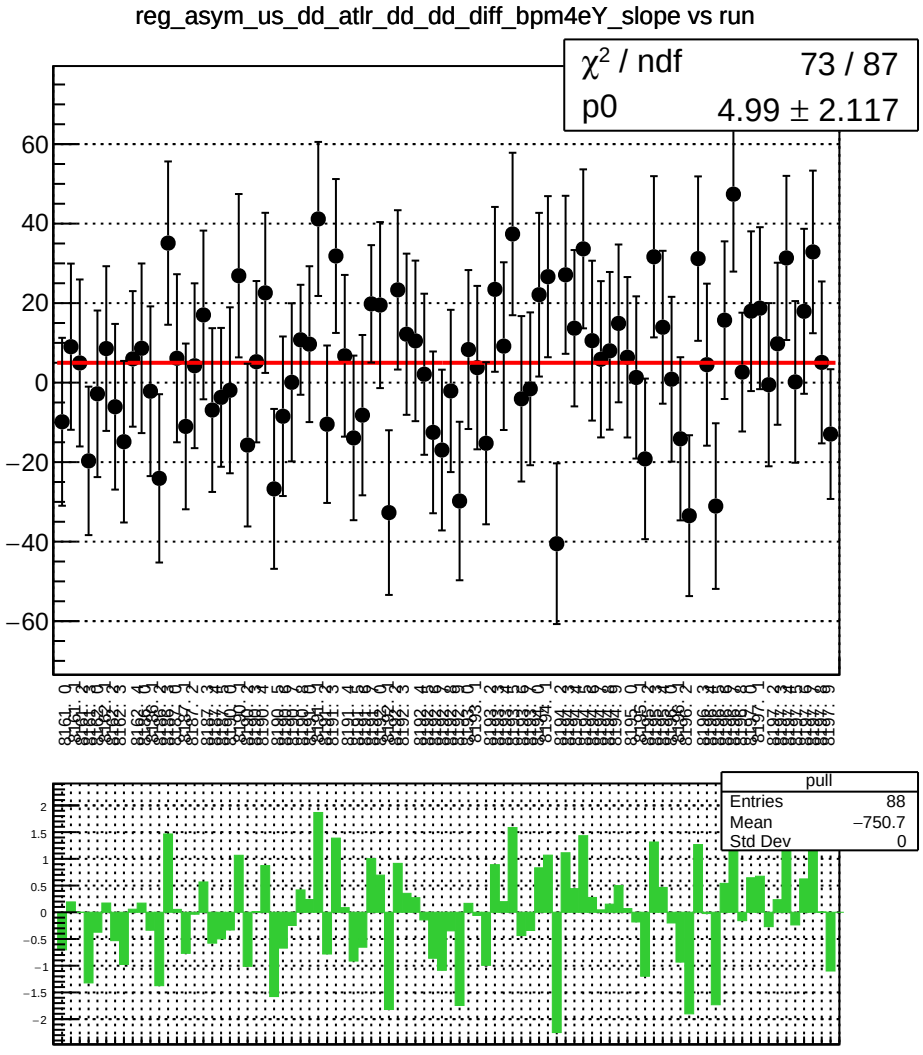

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 74.95 / 87
p0 −47.49 ± 1.188
pull
Entries 88
Mean 577
Std Dev 0

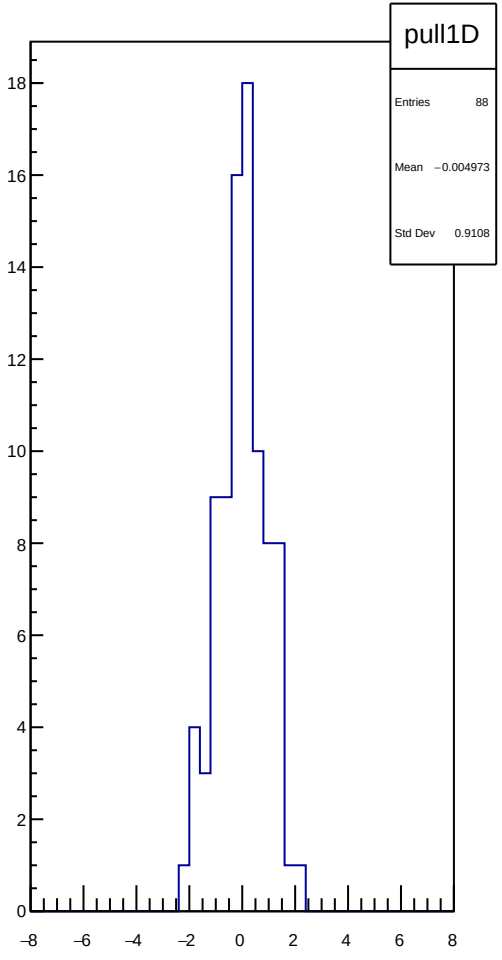

pull1D
Entries 88
Mean 0.008215
Std Dev 0.9229

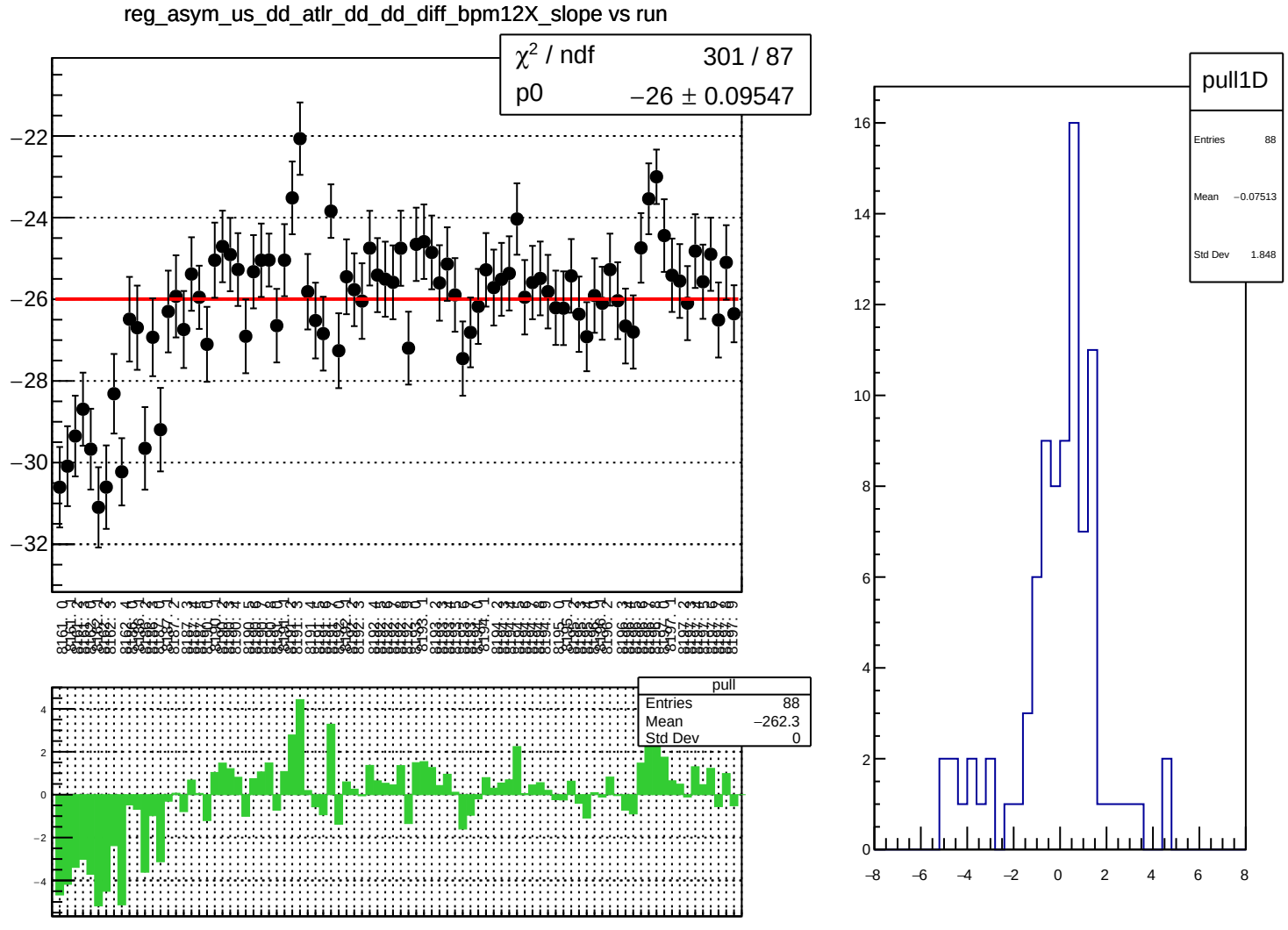

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.24 / 87
p0 5.815 ± 1.965
pull
Entries 88
Mean −745.9
Std Dev 0
pull1D
Entries 88
Mean 0.005153
Std Dev 0.9123

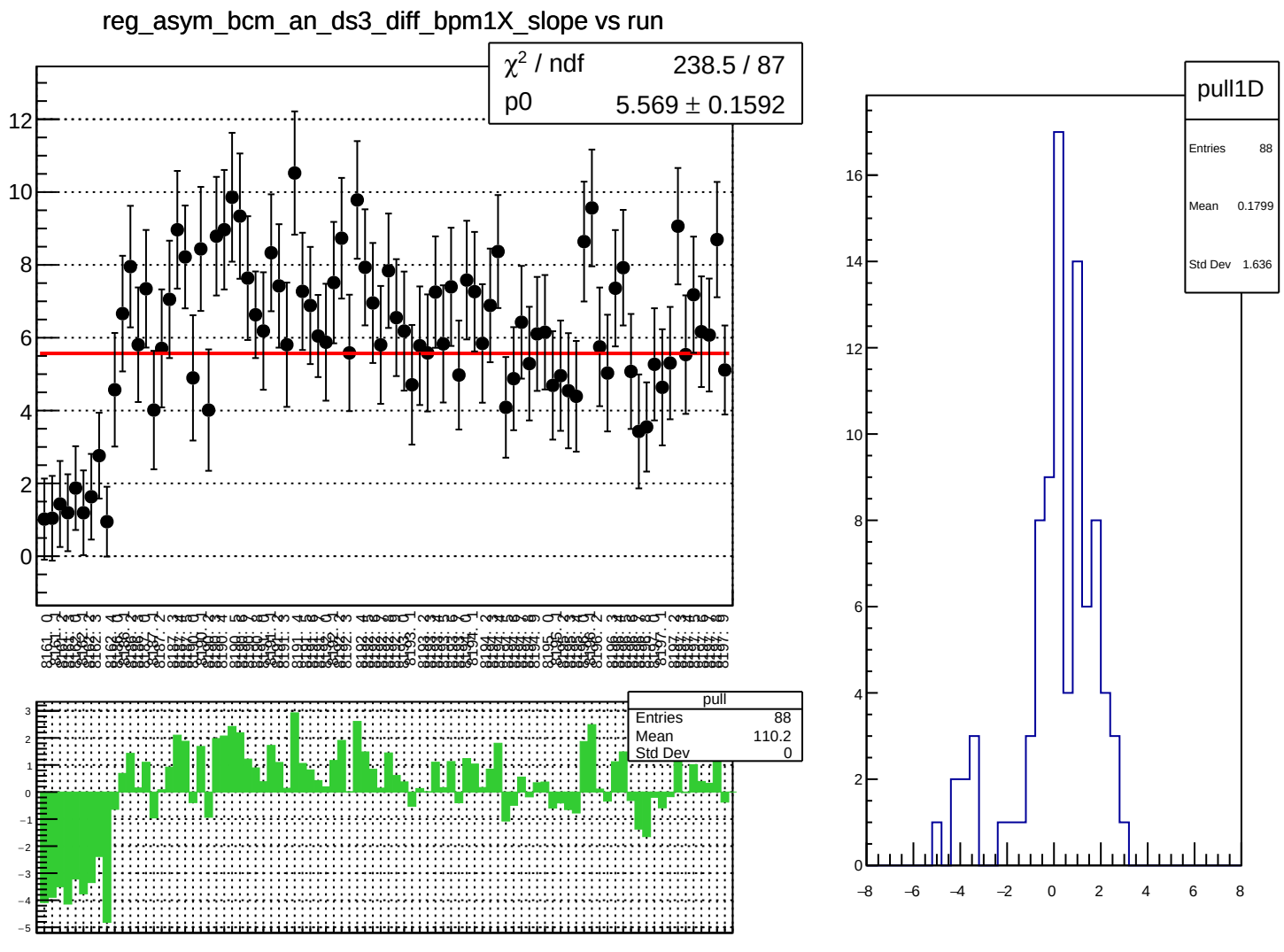

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.39 / 87
p0 4.89 ± 1.187
pull
Entries 88
Mean 1107
Std Dev 0

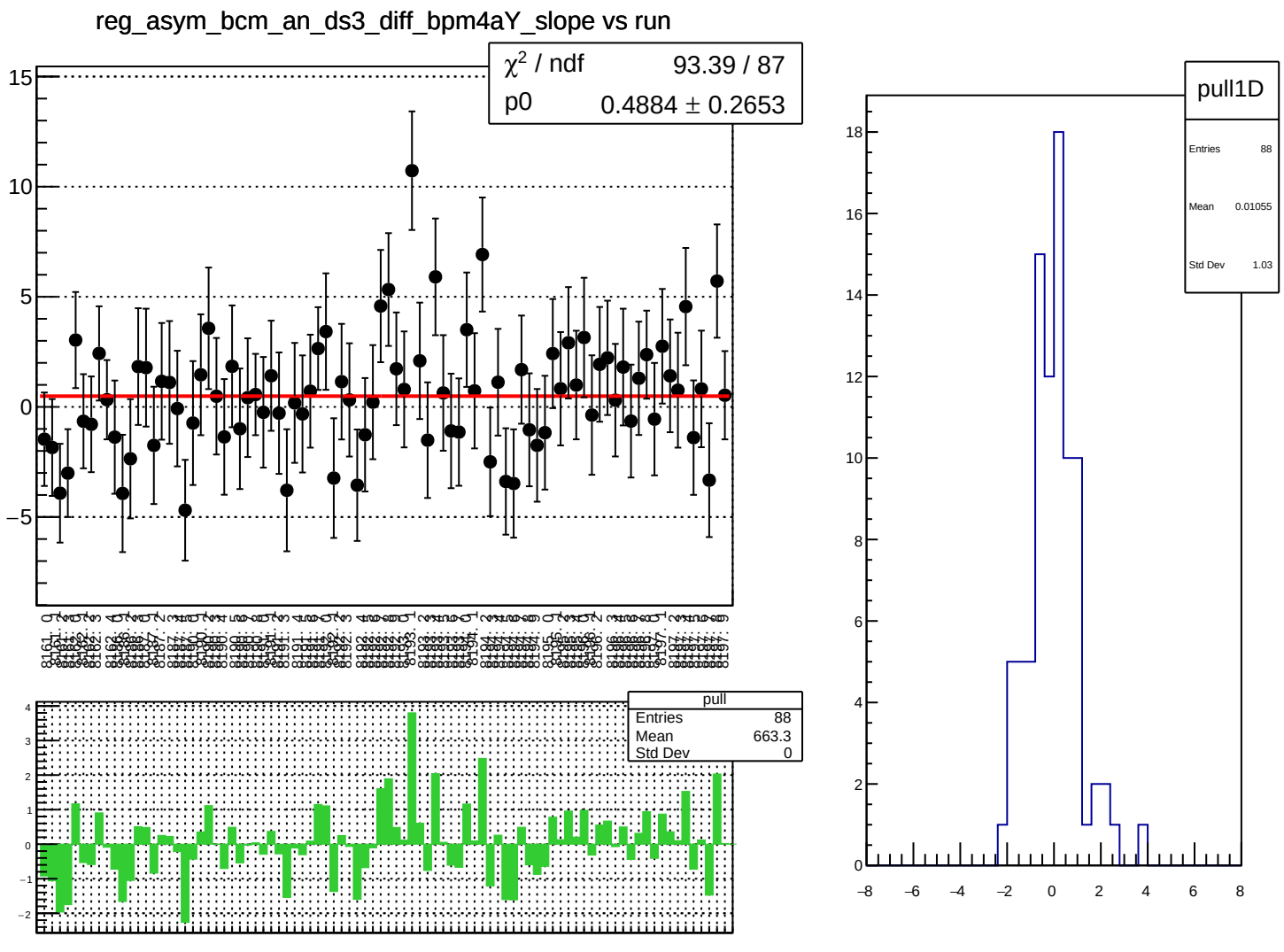

pull1D
Entries 88
Mean −0.004012
Std Dev 0.9194

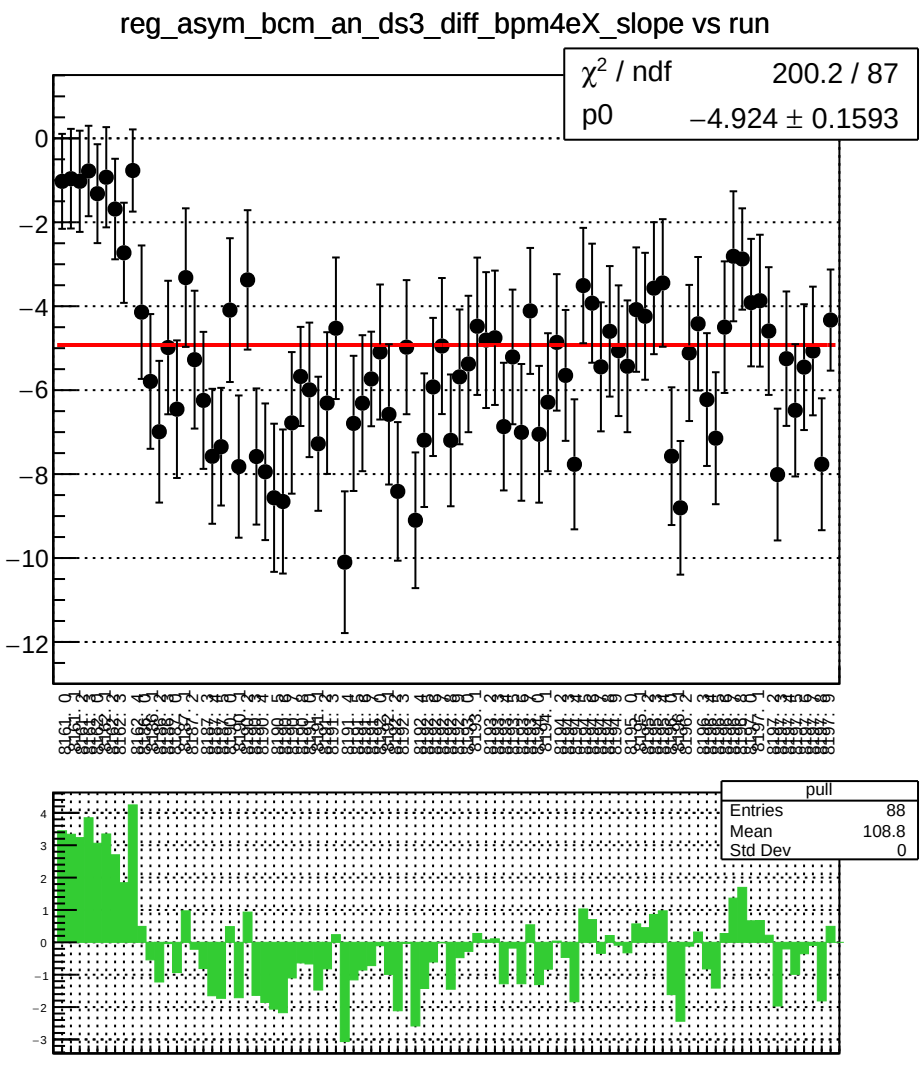

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 73 / 87
p0 4.99 ± 2.117
pull
Entries 88
Mean −750.7
Std Dev 0

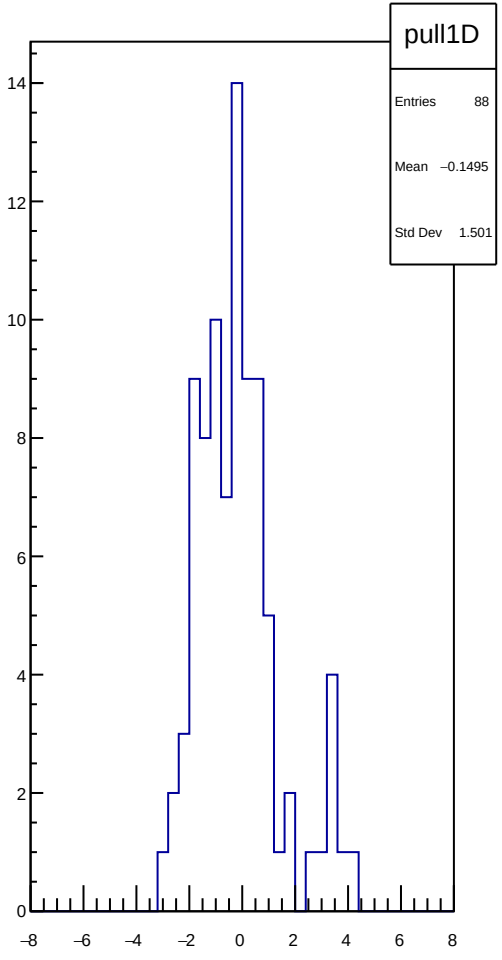

pull1D
Entries 88
Mean −0.004973
Std Dev 0.9108

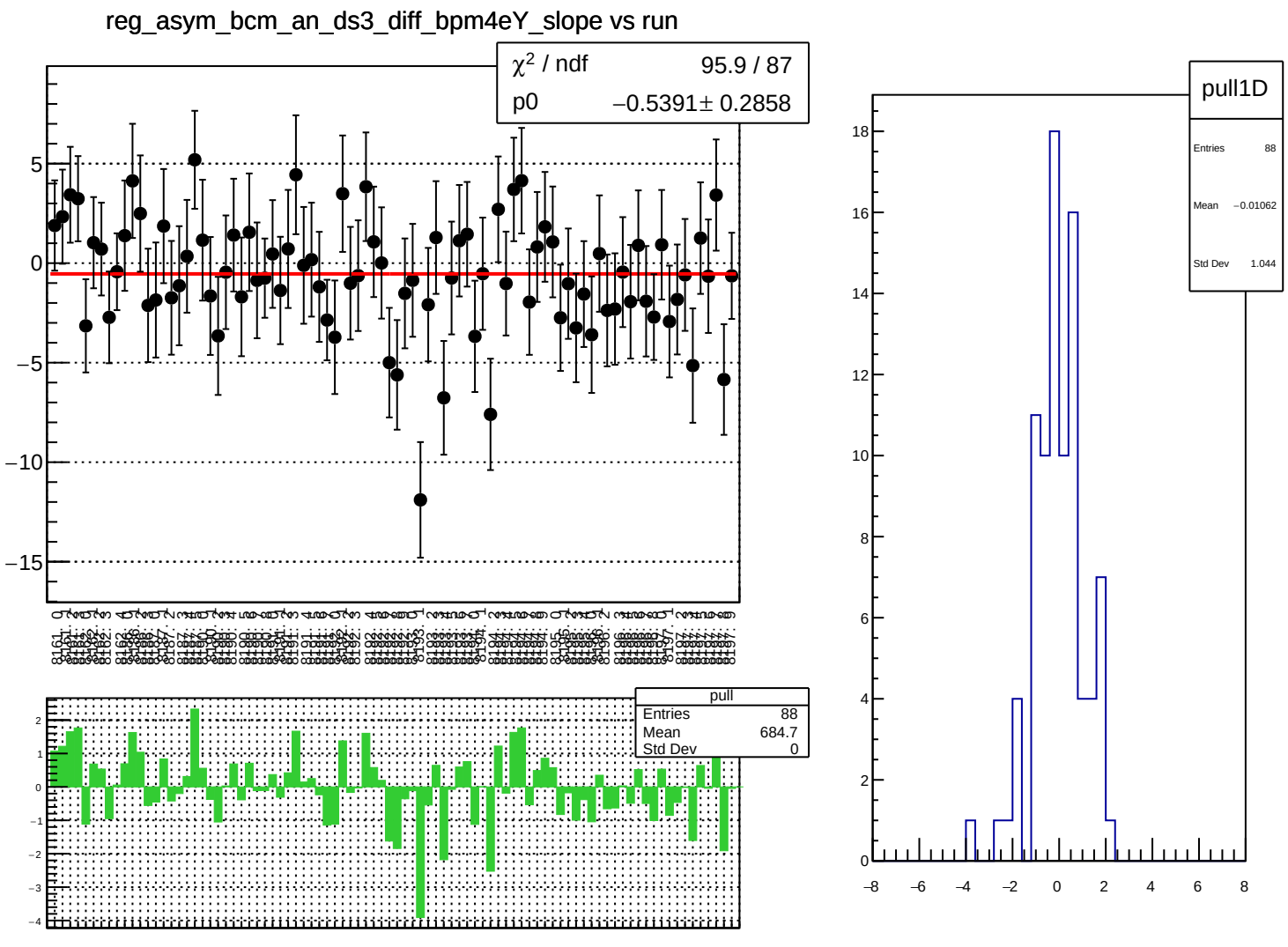

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 301 / 87
p0 −26 ± 0.09547
−22
−24
−26
−28
−30
−32
pull
Entries 88
Mean −262.3
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 88
Mean −0.07513
Std Dev 1.848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

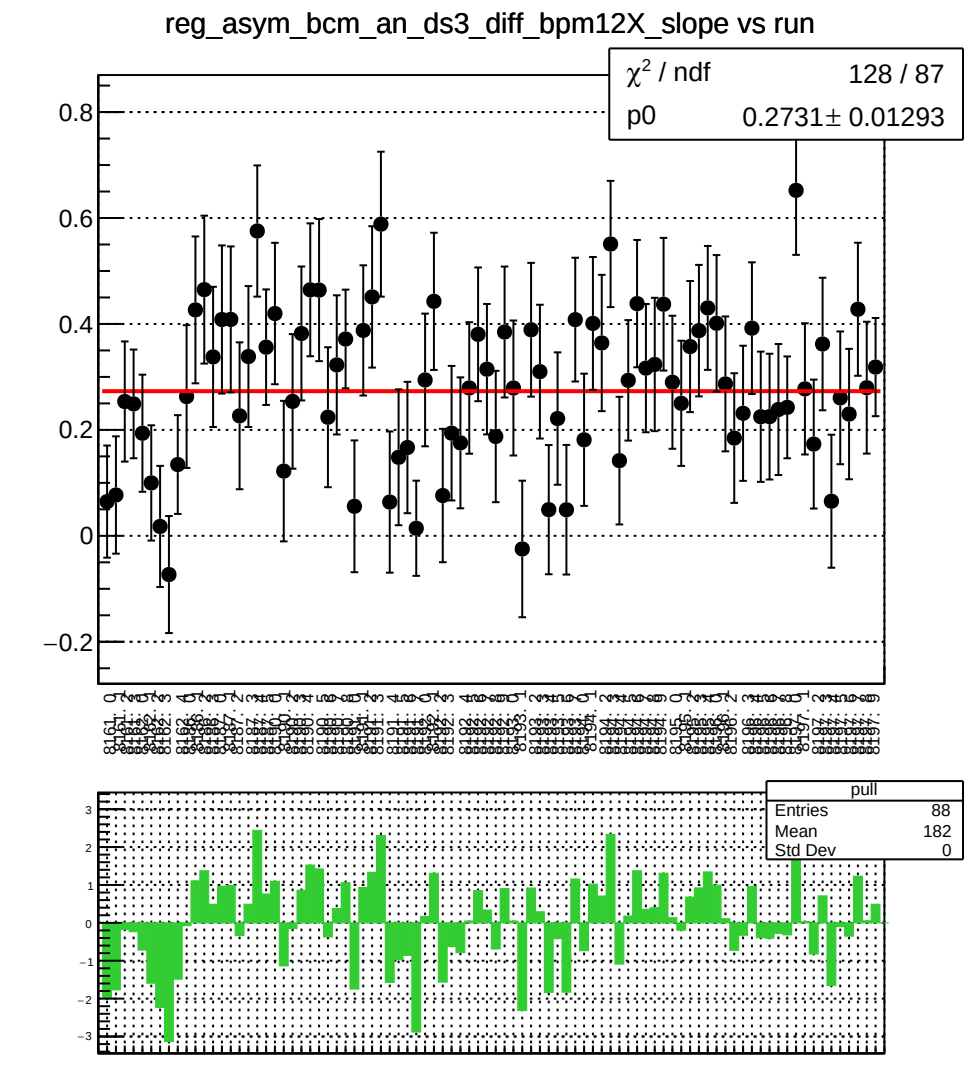

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 238.5 / 87
p0 5.569 ± 0.1592
pull
Entries 88
Mean 110.2
Std Dev 0
pull1D
Entries 88
Mean 0.1799
Std Dev 1.636

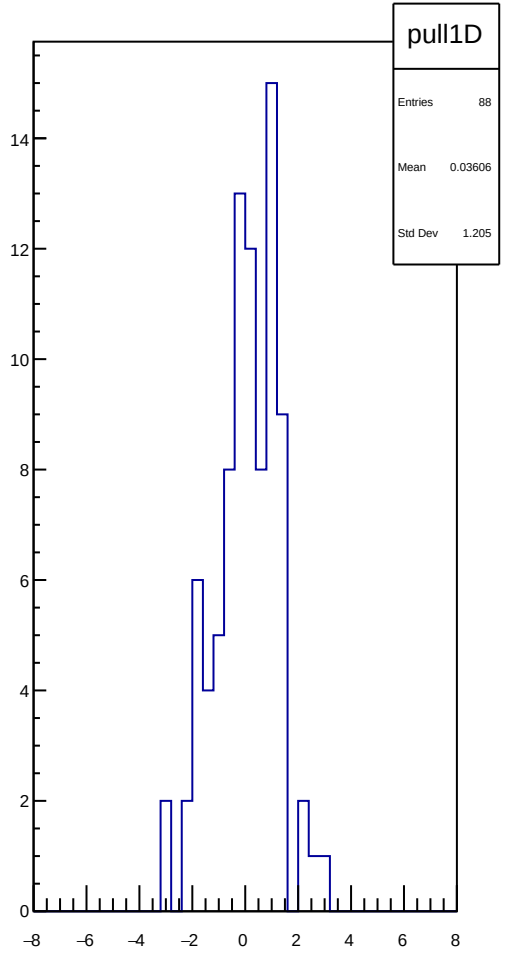

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 93.39 / 87
p0 0.4884 ± 0.2653
pull
Entries 88
Mean 663.3
Std Dev 0
pull1D
Entries 88
Mean 0.01055
Std Dev 1.03

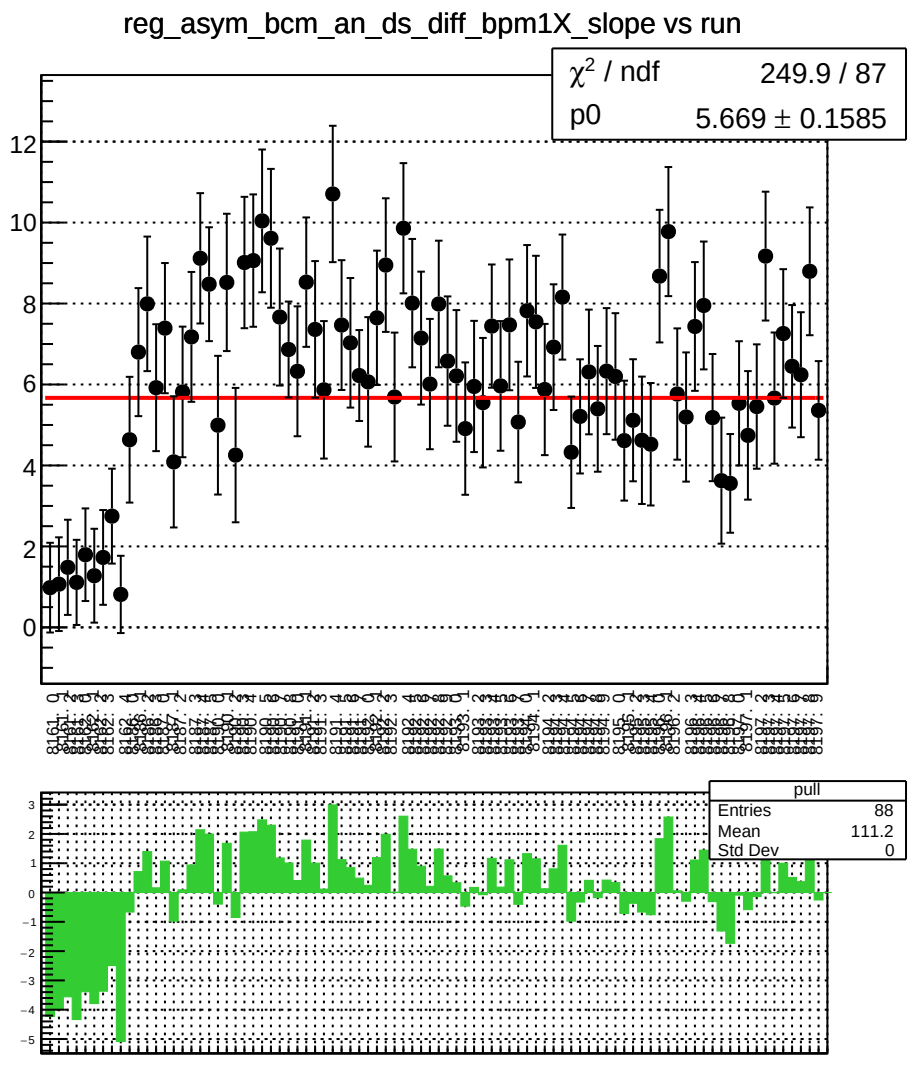

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 200.2 / 87
p0 −4.924 ± 0.1593
pull
Entries 88
Mean 108.8
Std Dev 0

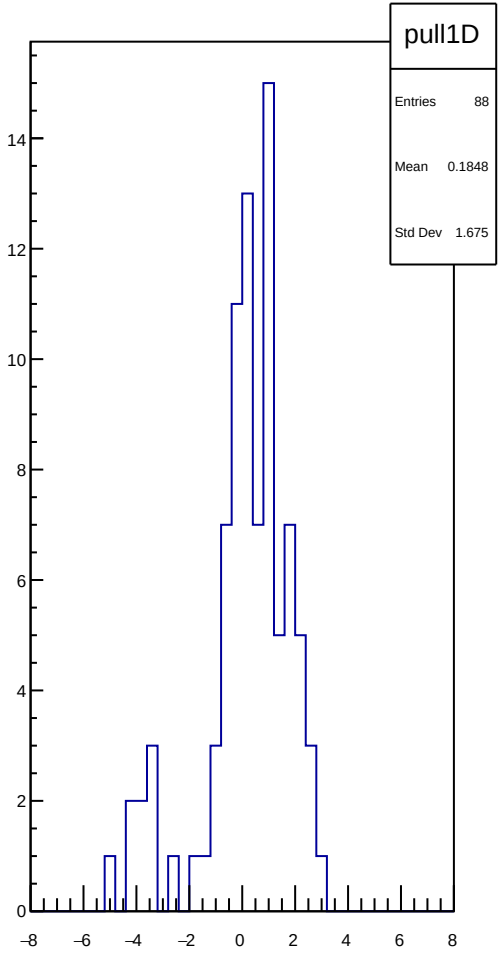

pull1D
Entries 88
Mean −0.1495
Std Dev 1.501

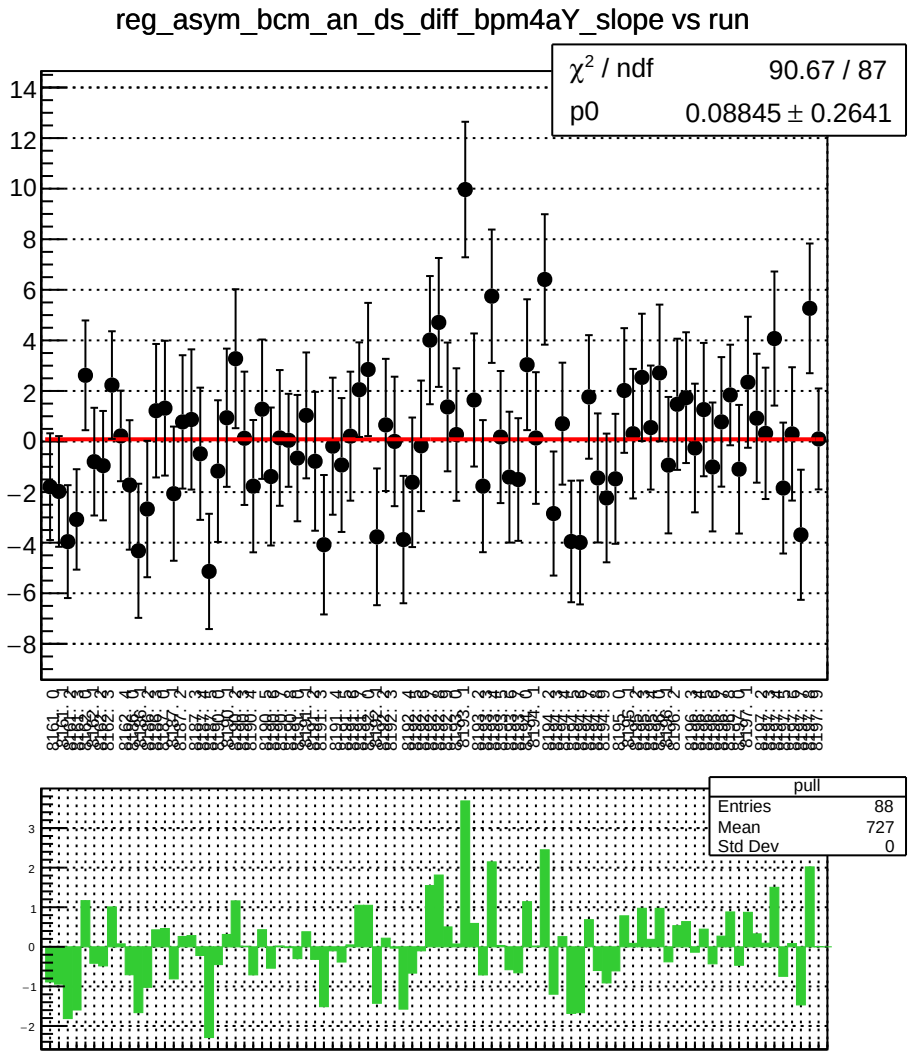

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 95.9 / 87
p0 −0.5391± 0.2858
pull
Entries 88
Mean 684.7
Std Dev 0
pull1D
Entries 88
Mean −0.01062
Std Dev 1.044

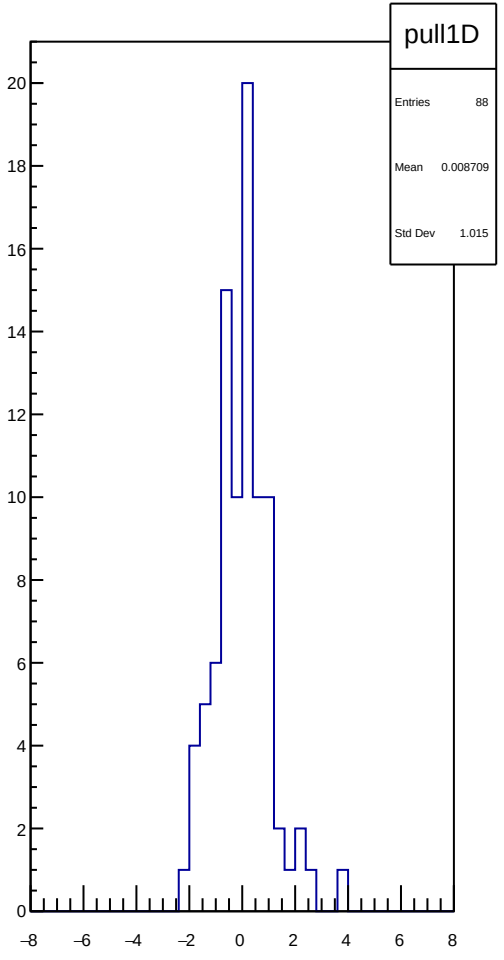

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 128 / 87
p0 0.2731± 0.01293
pull
Entries 88
Mean 182
Std Dev 0

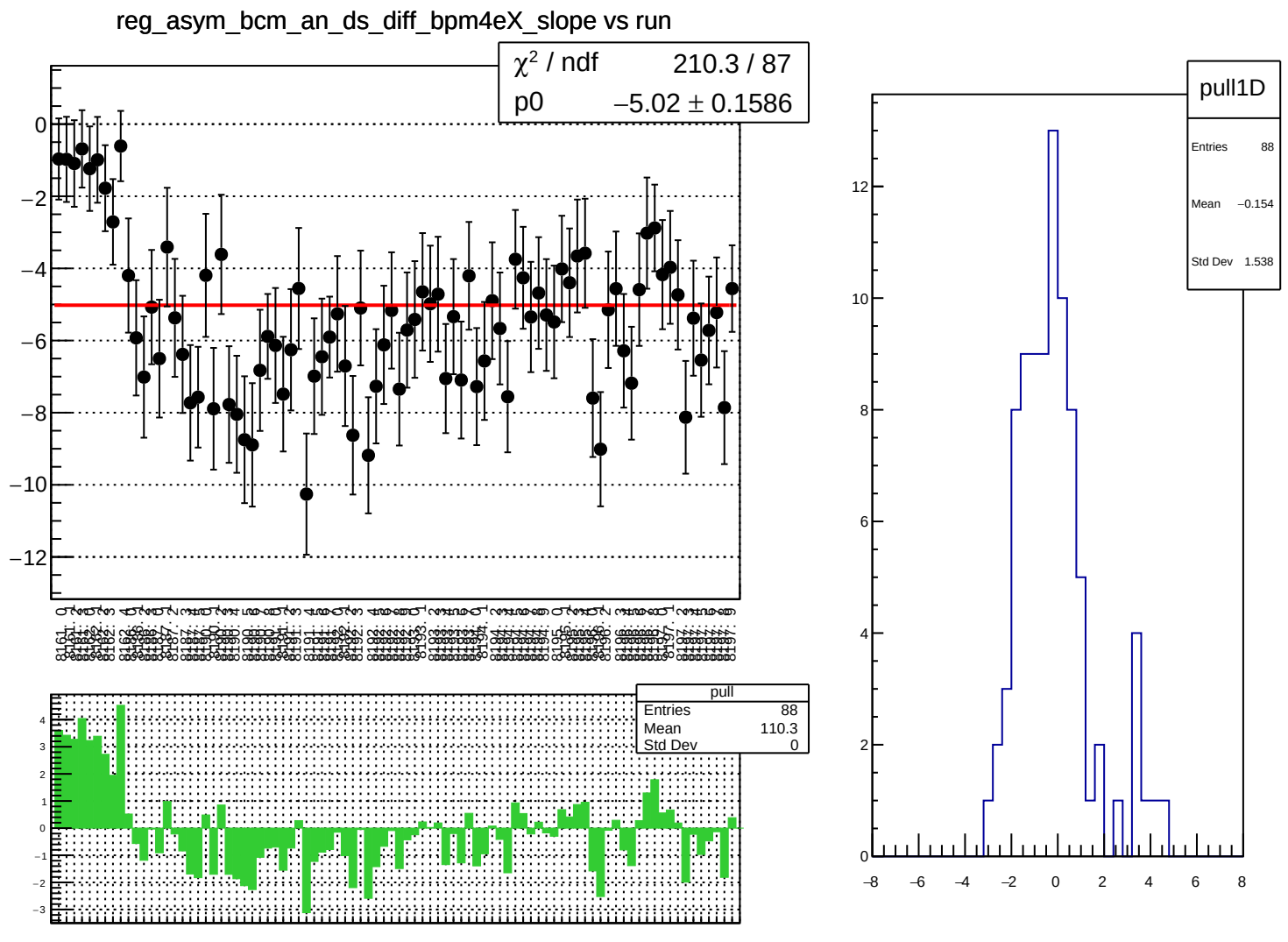

pull1D
Entries 88
Mean 0.03606
Std Dev 1.205

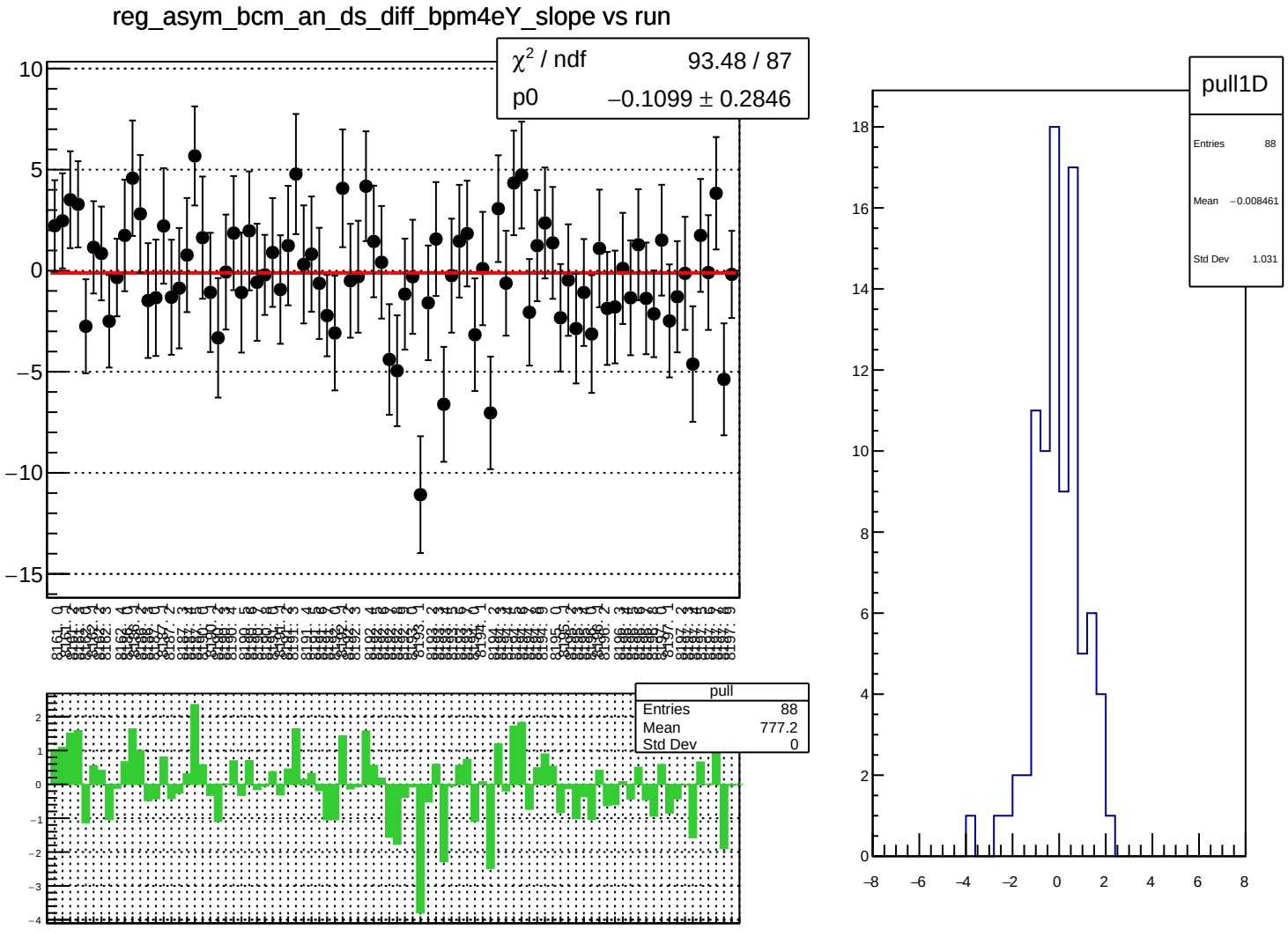

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 249.9 / 87
p0 5.669 ± 0.1585
pull
Entries 88
Mean 111.2
Std Dev 0

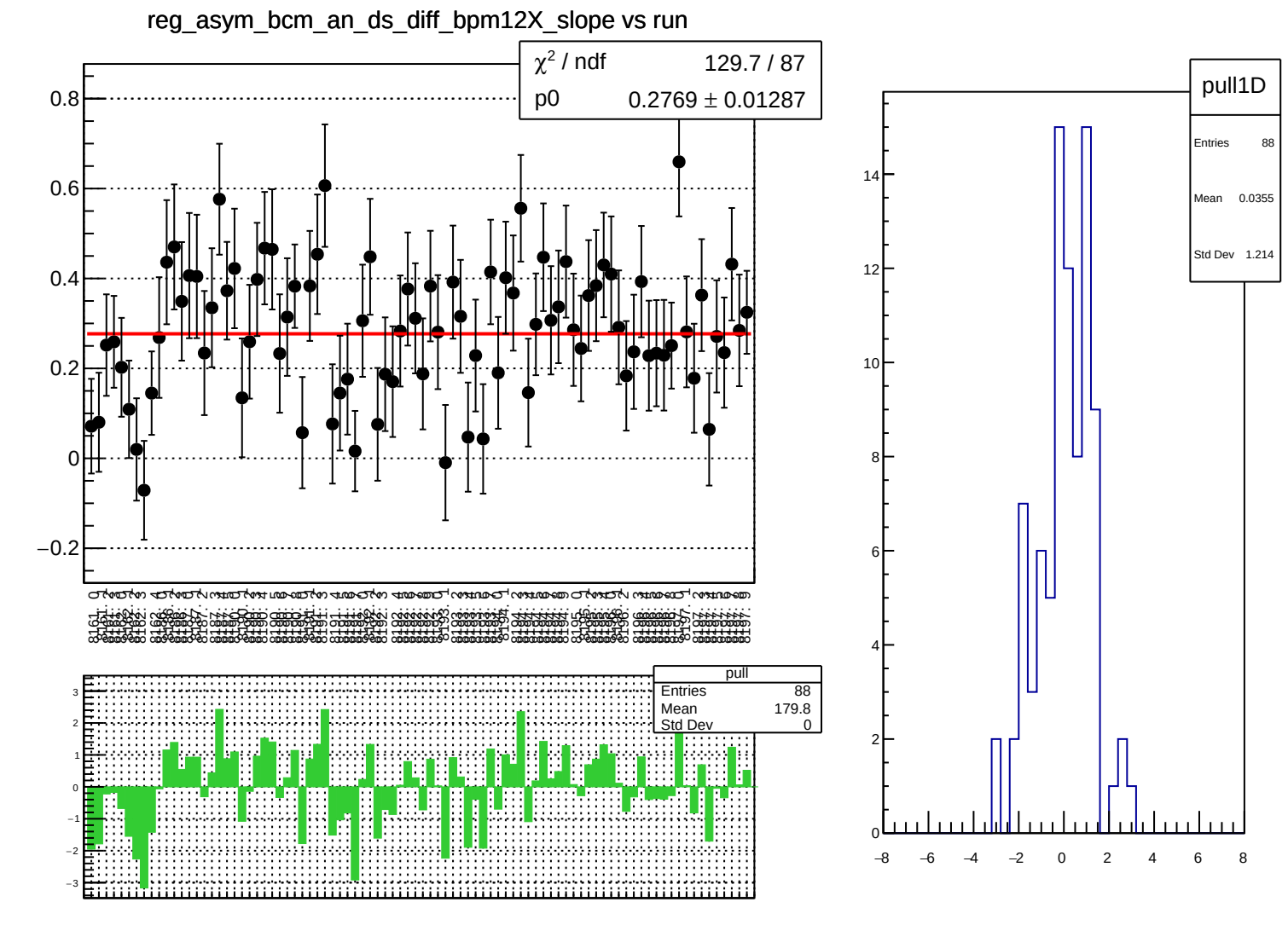

pull1D
Entries 88
Mean 0.1848
Std Dev 1.675

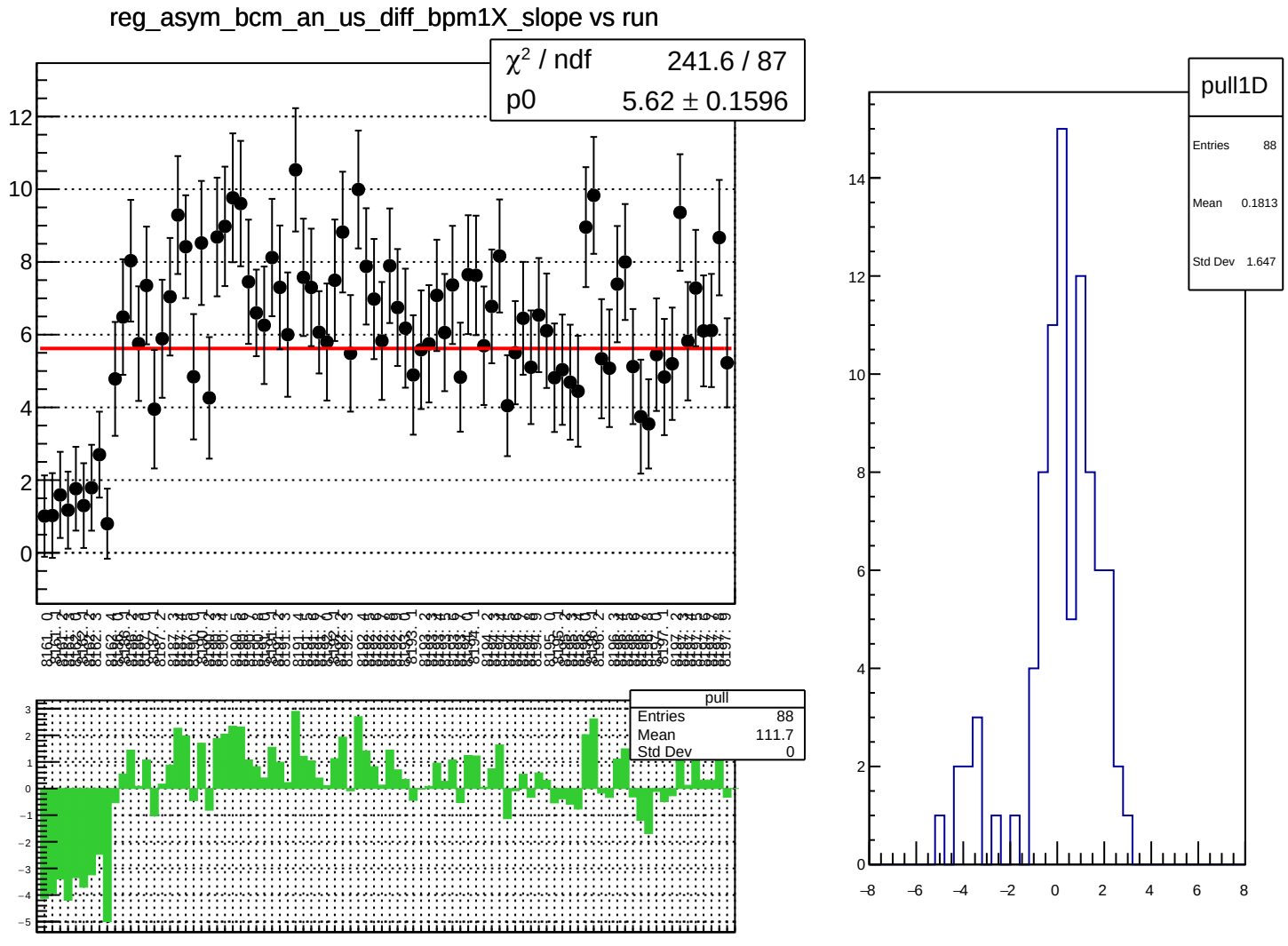

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 90.67 / 87
p0 0.08845 ± 0.2641
pull
Entries 88
Mean 727
Std Dev 0

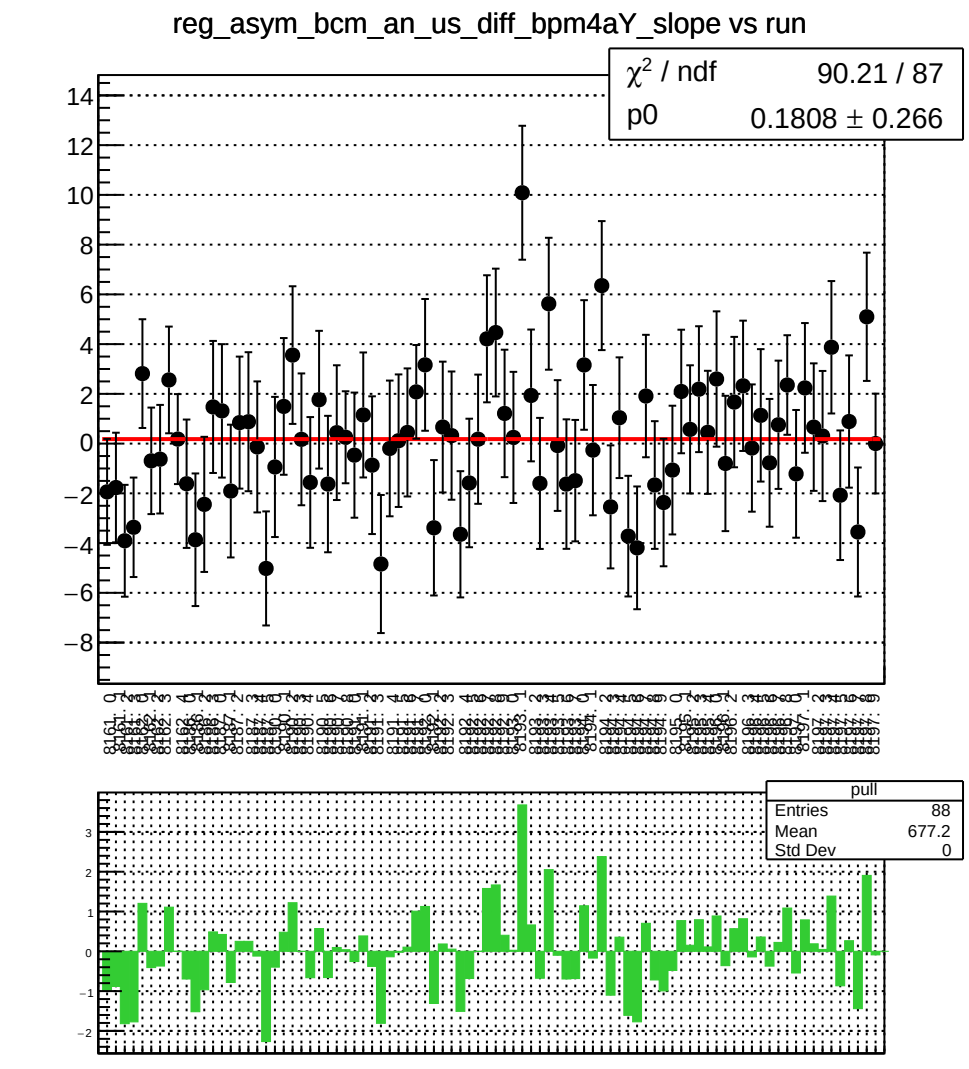

pull1D
Entries 88
Mean 0.008709
Std Dev 1.015

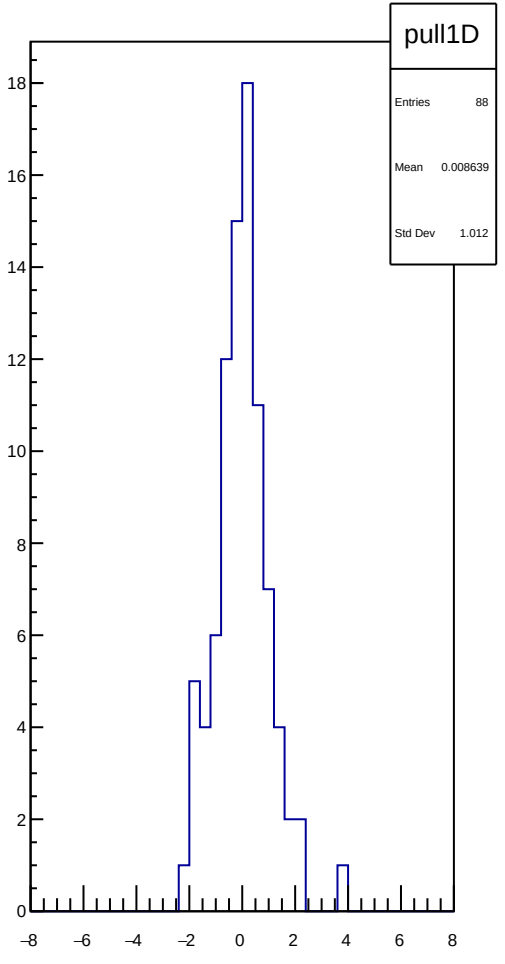

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 210.3 / 87
p0 −5.02 ± 0.1586
pull
Entries 88
Mean 110.3
Std Dev 0
pull1D
Entries 88
Mean −0.154
Std Dev 1.538

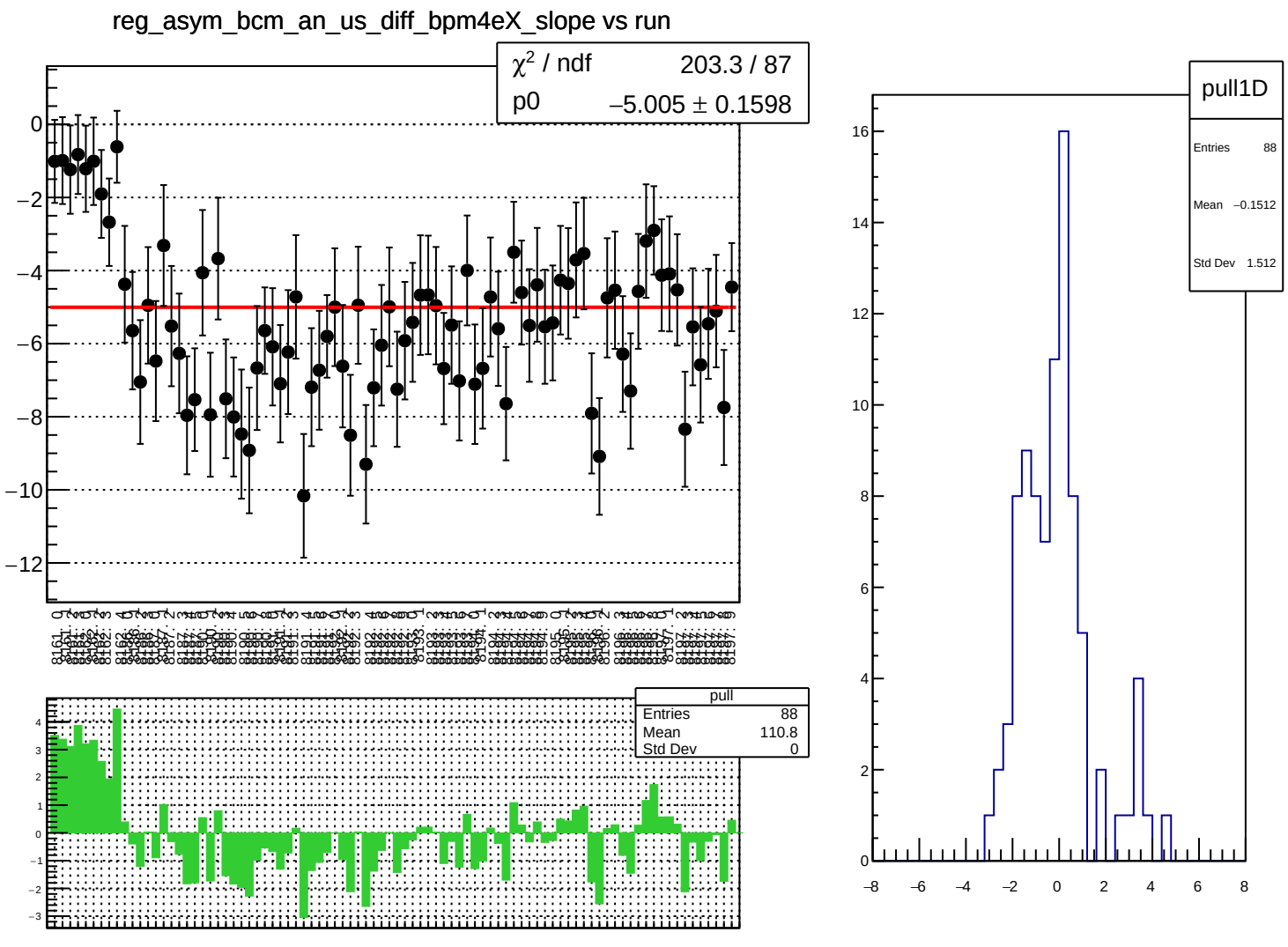

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 93.48 / 87
p0 −0.1099 ± 0.2846
pull
Entries 88
Mean 777.2
Std Dev 0
pull1D
Entries 88
Mean −0.008461
Std Dev 1.031

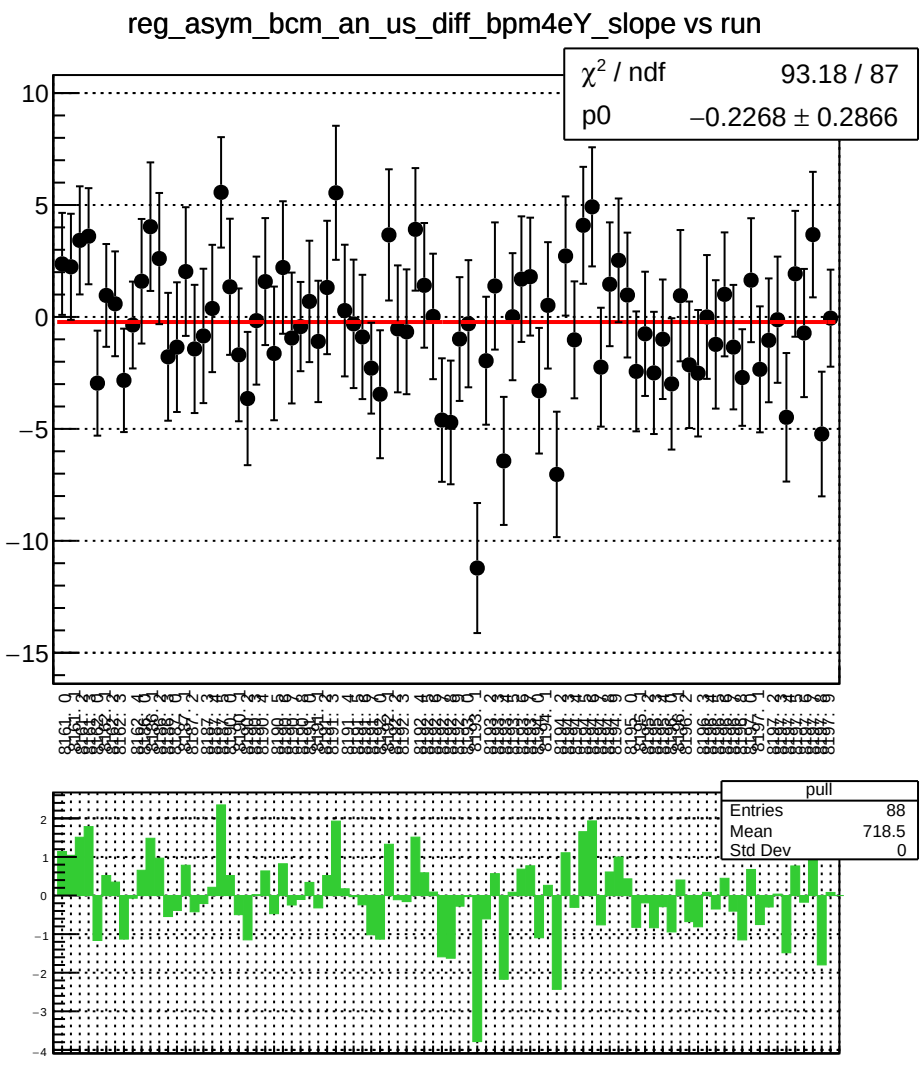

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 129.7 / 87
p0 0.2769 ± 0.01287
pull
Entries 88
Mean 179.8
Std Dev 0
pull1D
Entries 88
Mean 0.0355
Std Dev 1.214

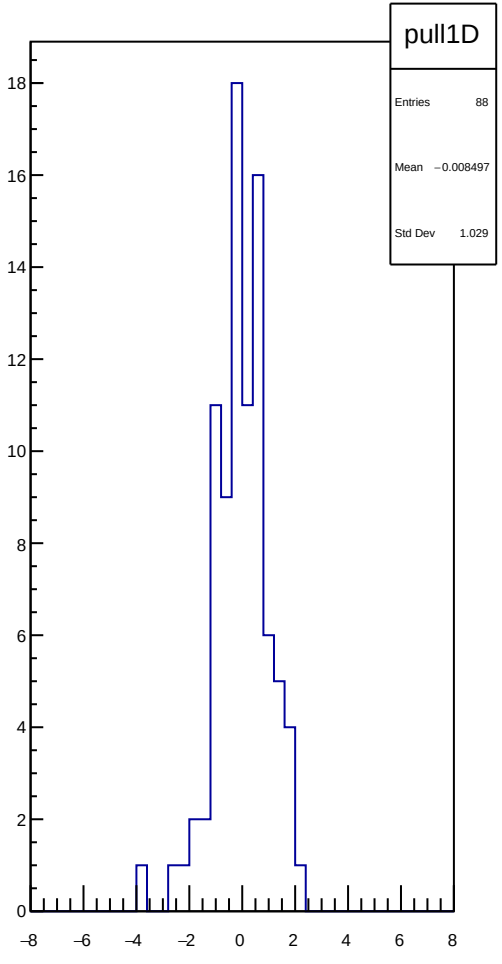

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 241.6 / 87
p0 5.62 ± 0.1596
pull
Entries 88
Mean 111.7
Std Dev 0
pull1D
Entries 88
Mean 0.1813
Std Dev 1.647

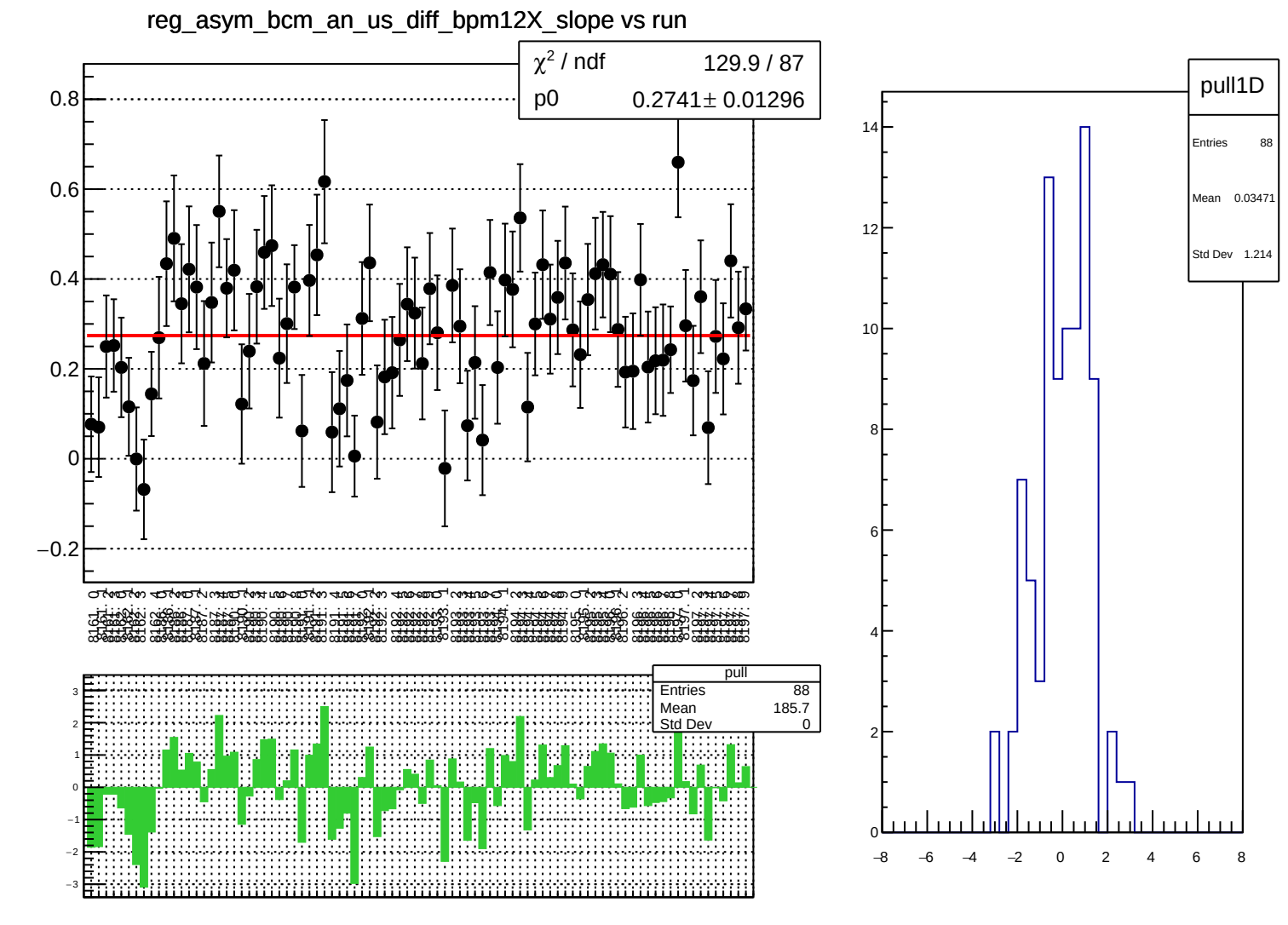

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 90.21 / 87
p0 0.1808 ± 0.266
pull
Entries 88
Mean 677.2
Std Dev 0

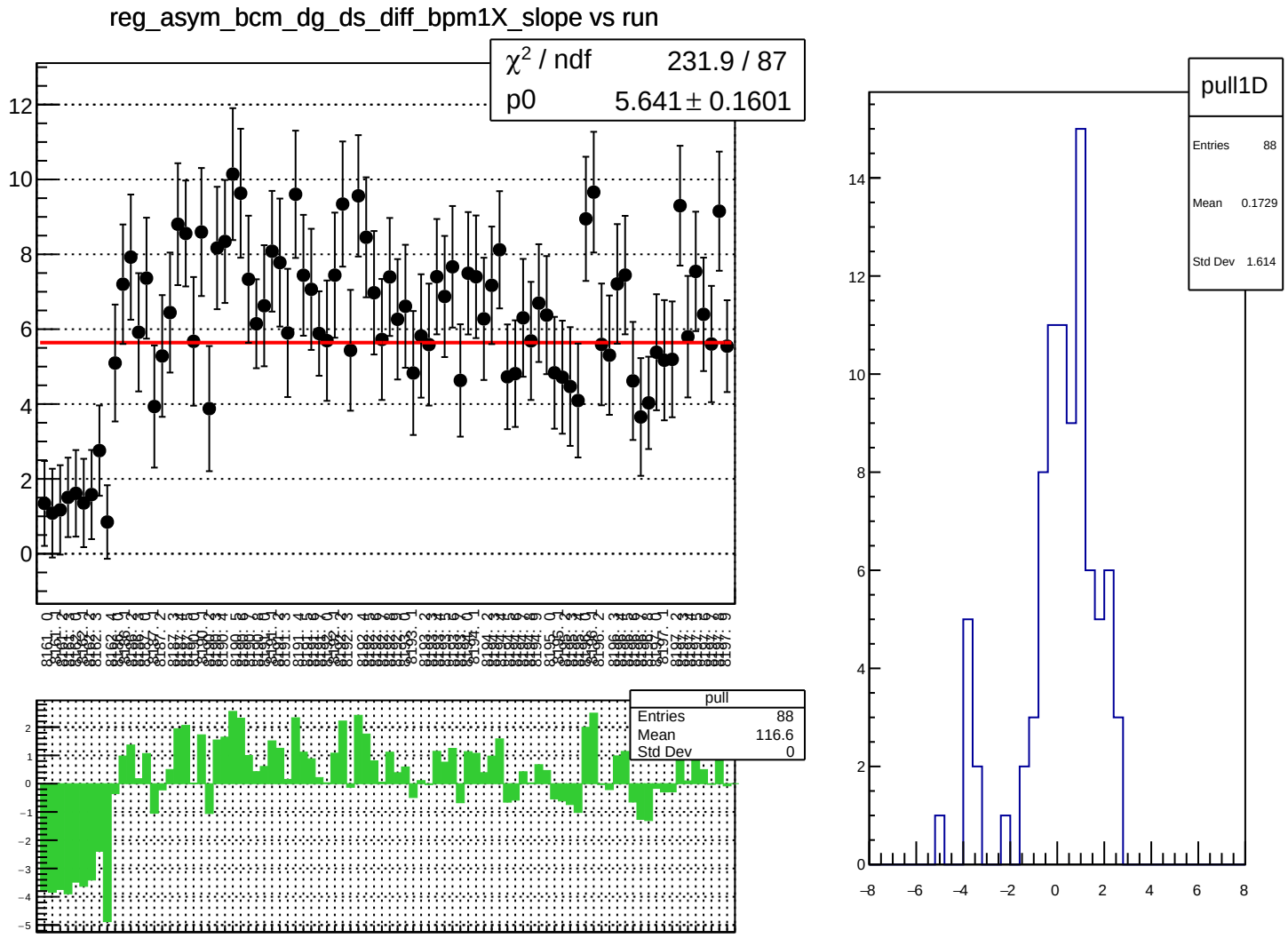

pull1D
Entries 88
Mean 0.008639
Std Dev 1.012

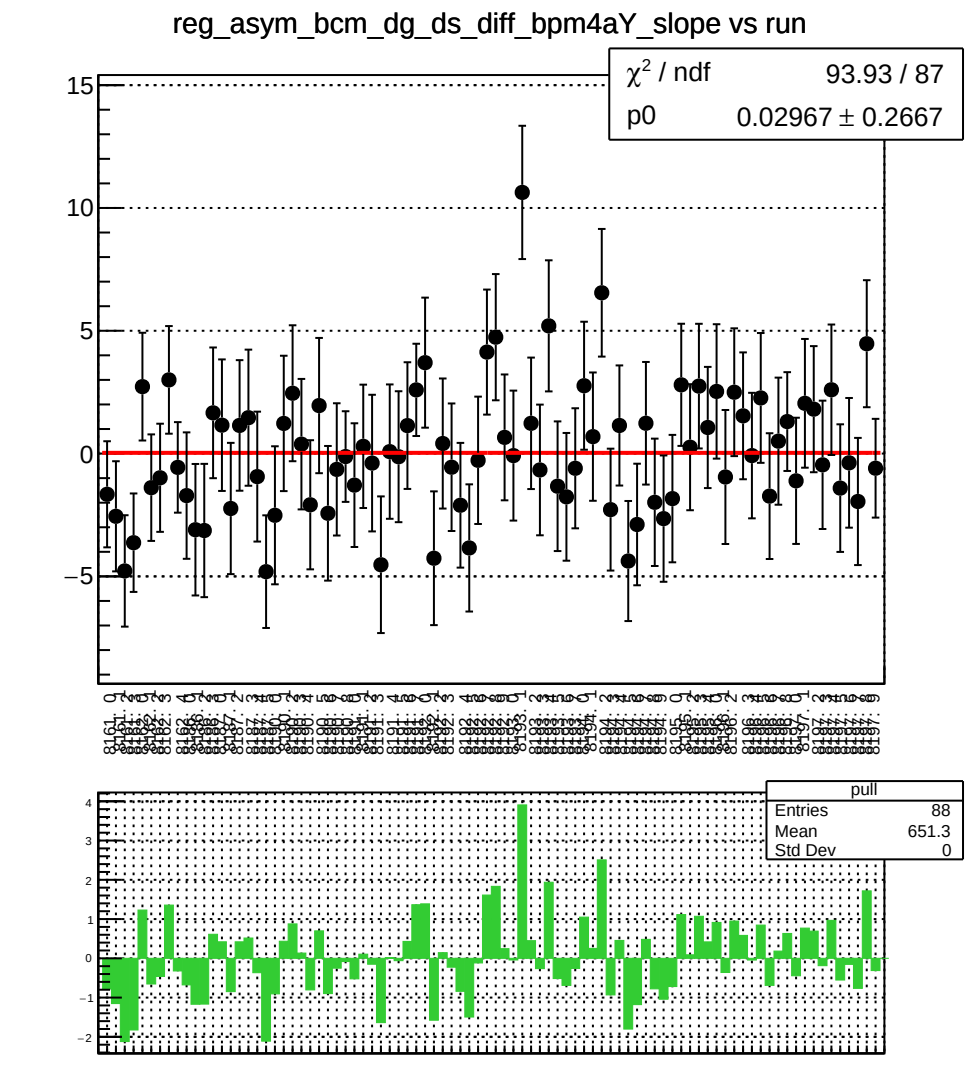

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 203.3 / 87
p0 −5.005 ± 0.1598
pull
Entries 88
Mean 110.8
Std Dev 0
pull1D
Entries 88
Mean −0.1512
Std Dev 1.512

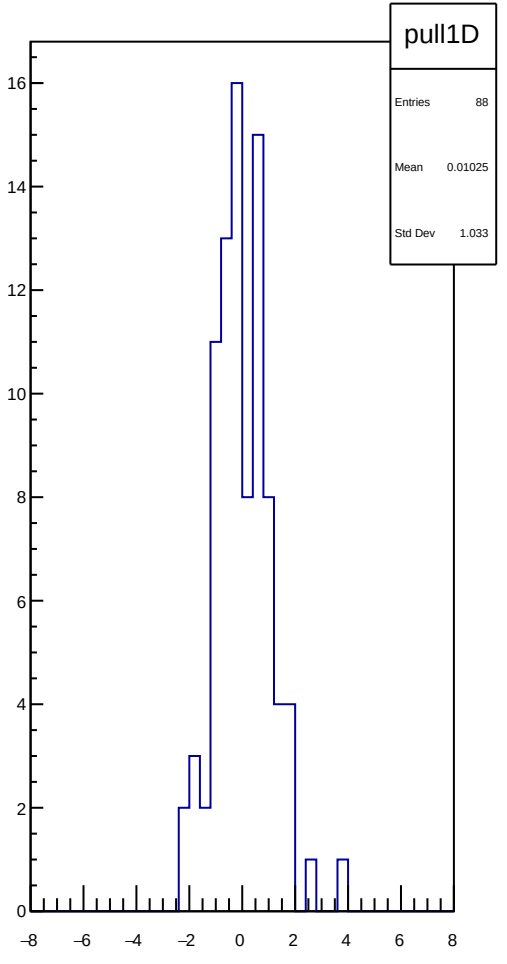

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 93.18 / 87
p0 −0.2268 ± 0.2866
pull
Entries 88
Mean 718.5
Std Dev 0

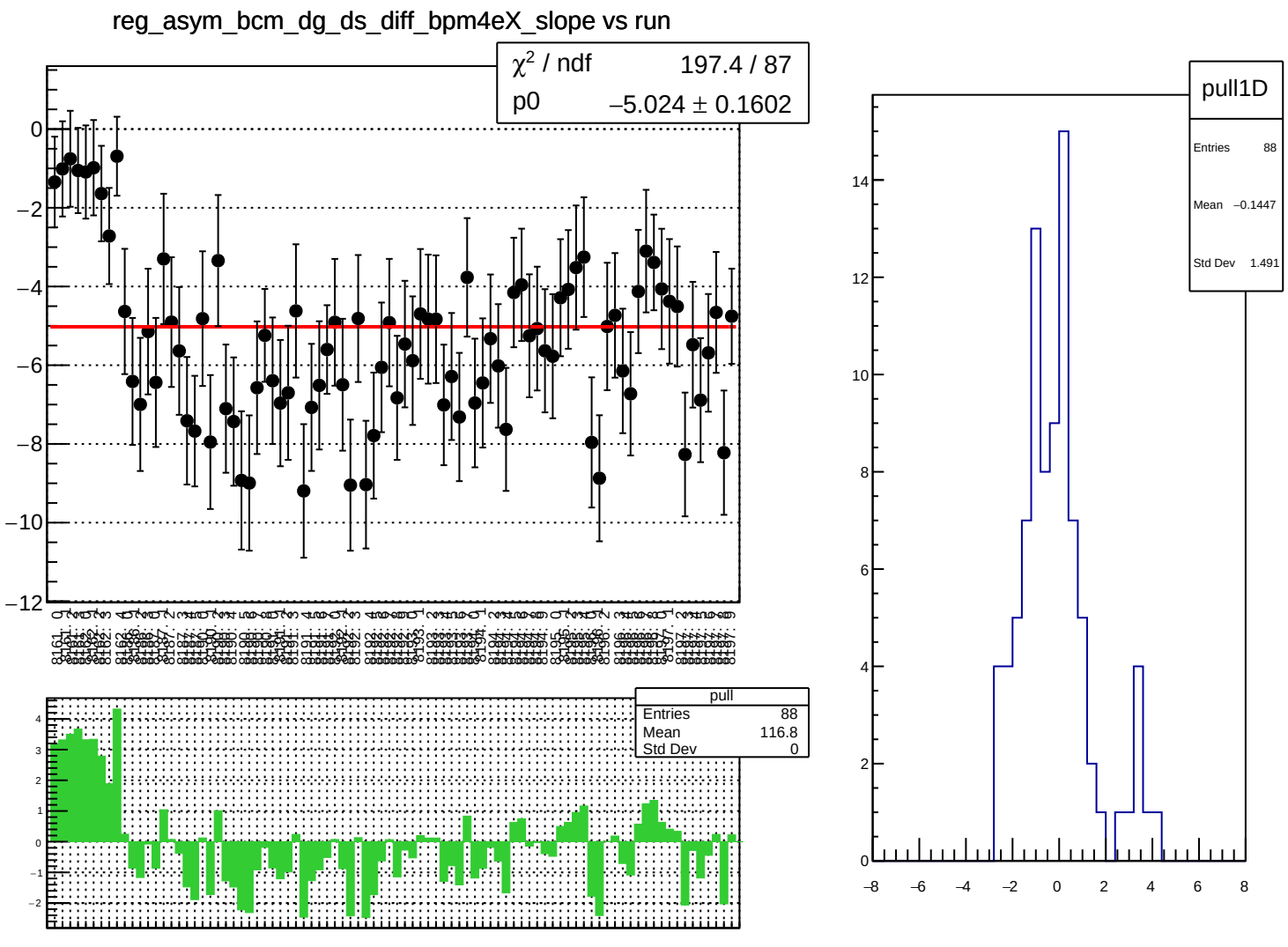

pull1D
Entries 88
Mean −0.008497
Std Dev 1.029

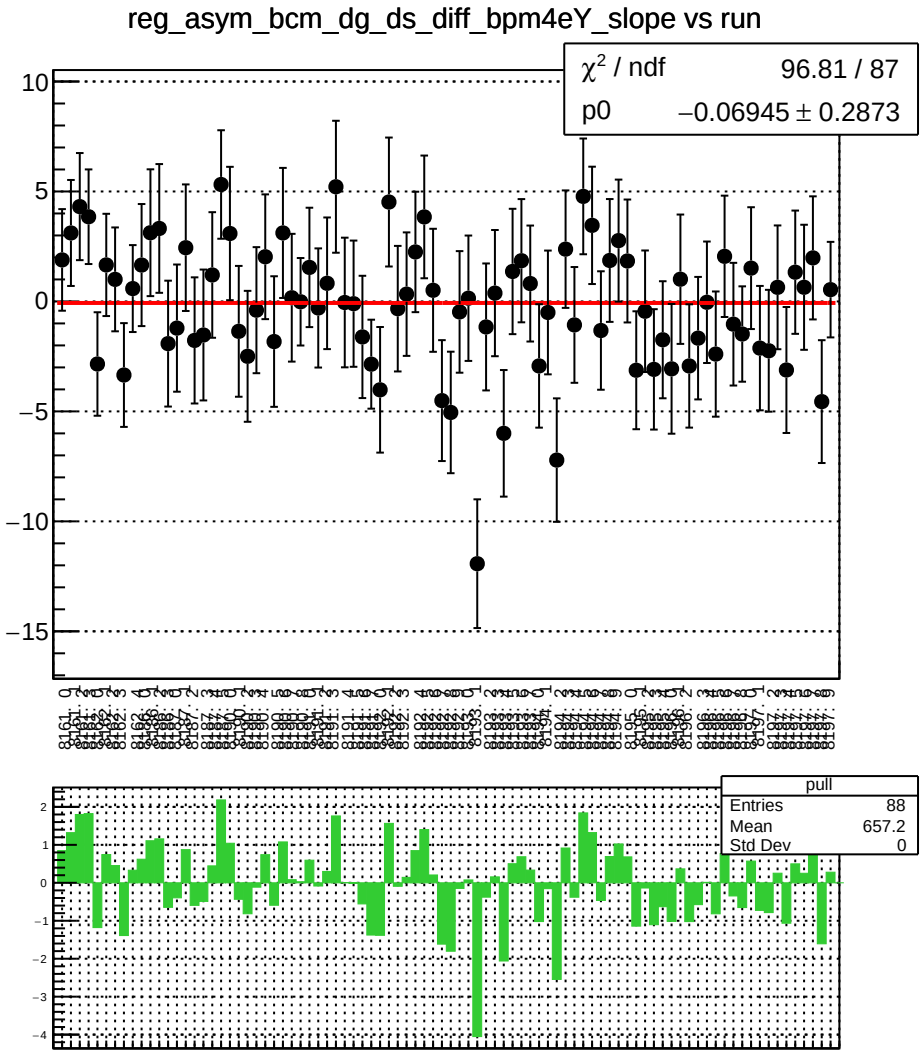

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 129.9 / 87
p0 0.2741± 0.01296
pull
Entries 88
Mean 185.7
Std Dev 0
pull1D
Entries 88
Mean 0.03471
Std Dev 1.214

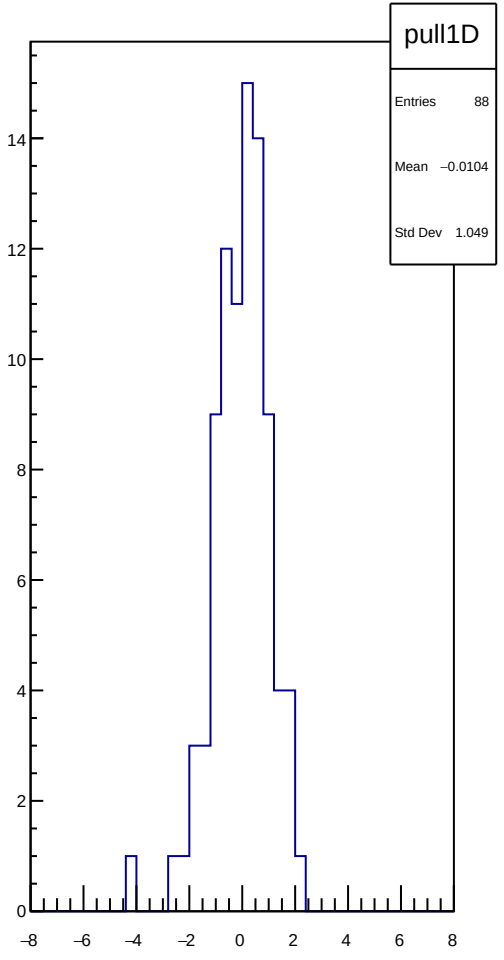

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 231.9 / 87
p0 5.641 ± 0.1601
pull
Entries 88
Mean 116.6
Std Dev 0
pull1D
Entries 88
Mean 0.1729
Std Dev 1.614

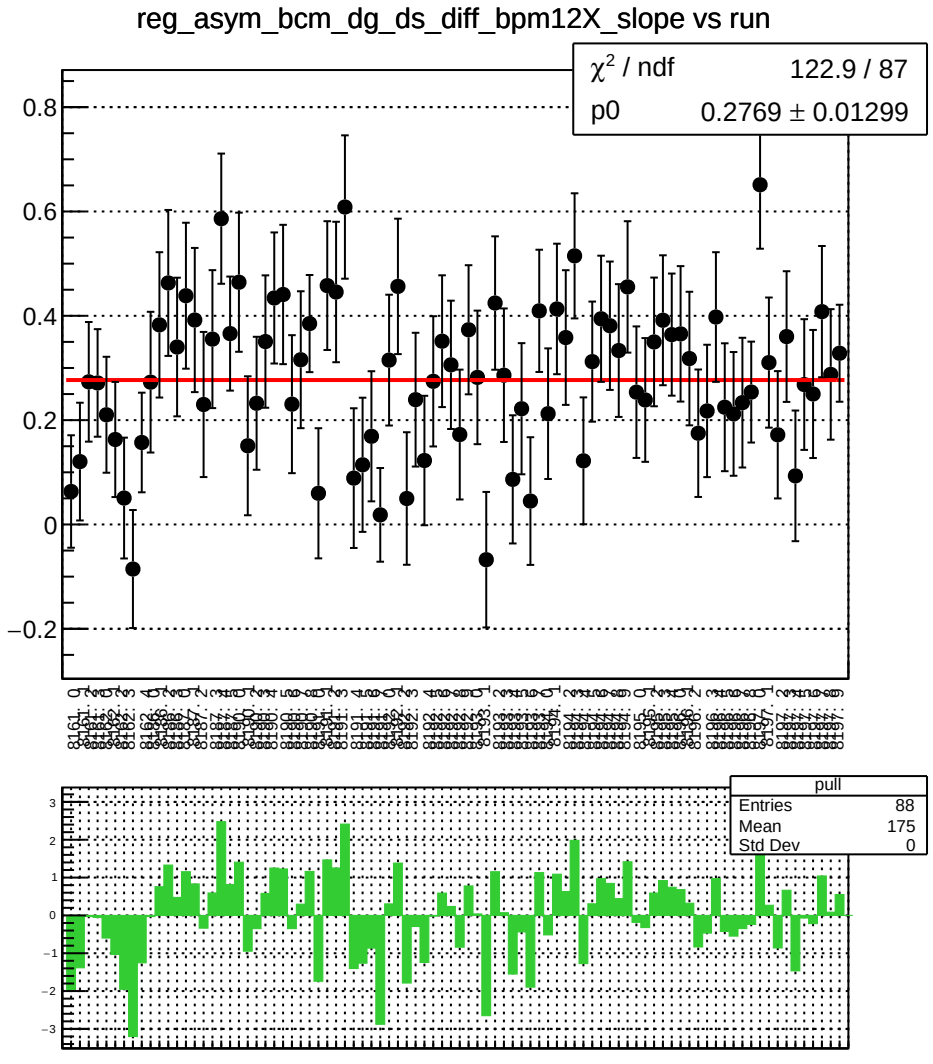

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 93.93 / 87
p0 0.02967 ± 0.2667
pull
Entries 88
Mean 651.3
Std Dev 0

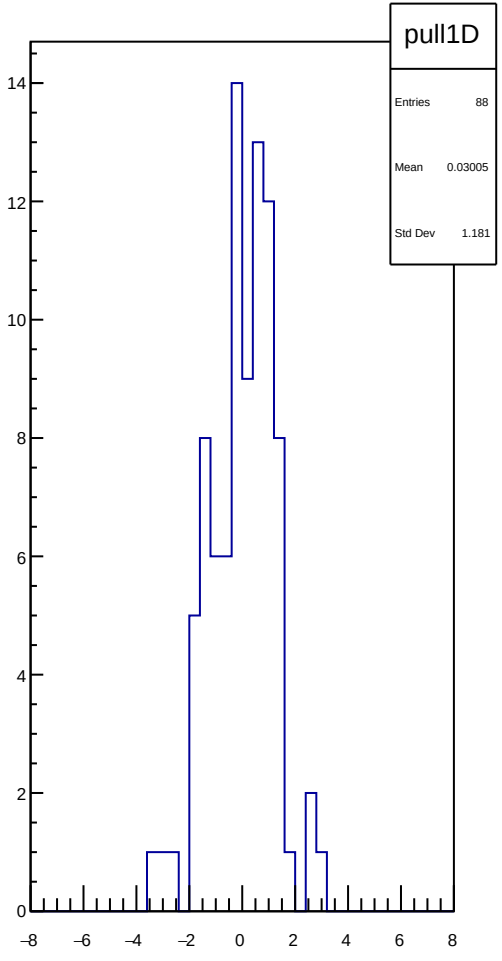

pull1D
Entries 88
Mean 0.01025
Std Dev 1.033

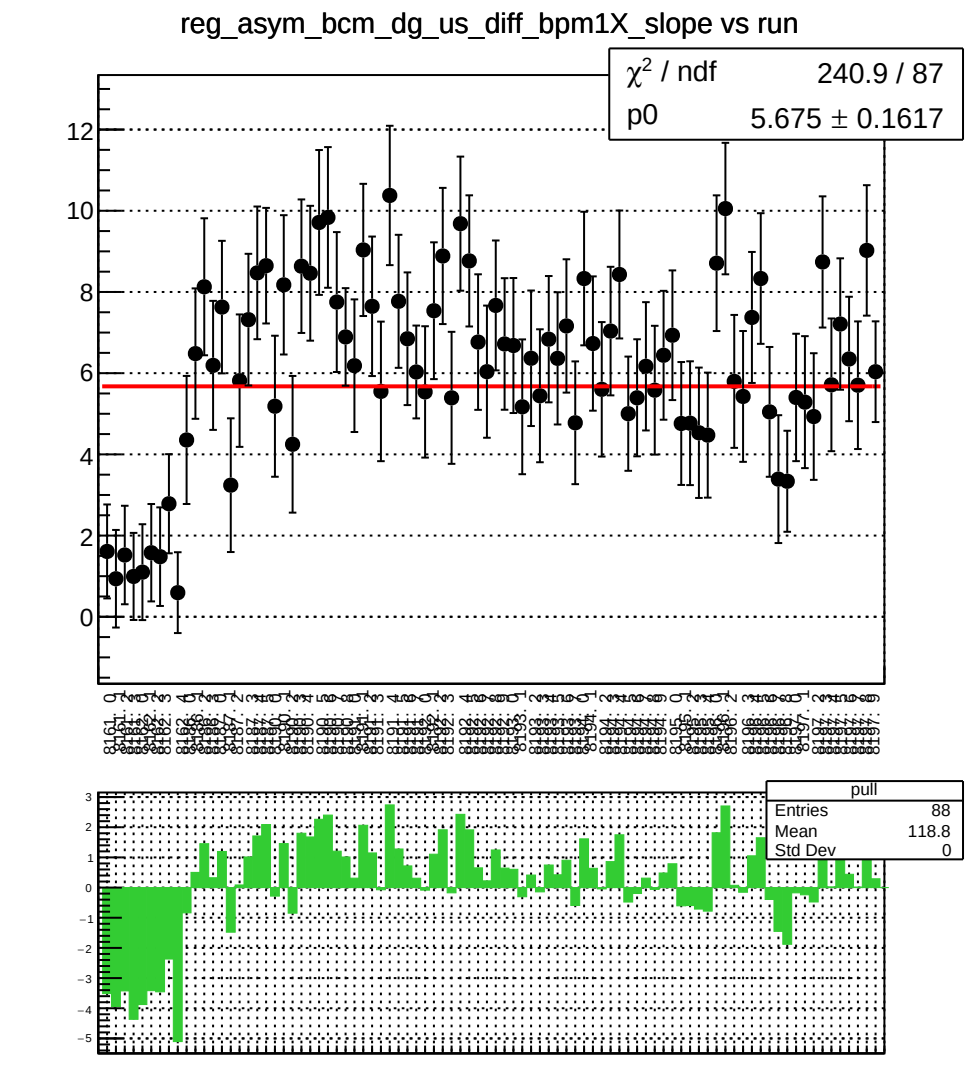

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 197.4 / 87
p0 −5.024 ± 0.1602
pull
Entries 88
Mean 116.8
Std Dev 0
pull1D
Entries 88
Mean −0.1447
Std Dev 1.491

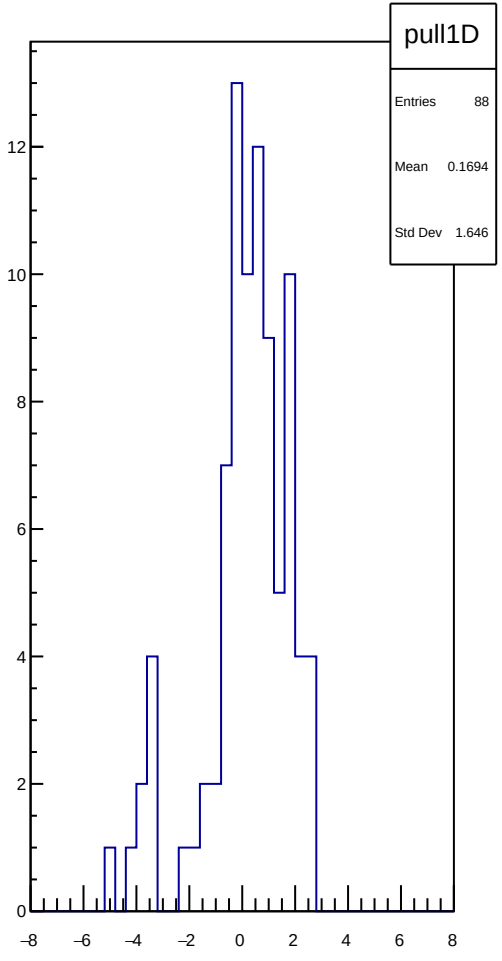

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 96.81 / 87
p0 −0.06945 ± 0.2873
pull
Entries 88
Mean 657.2
Std Dev 0

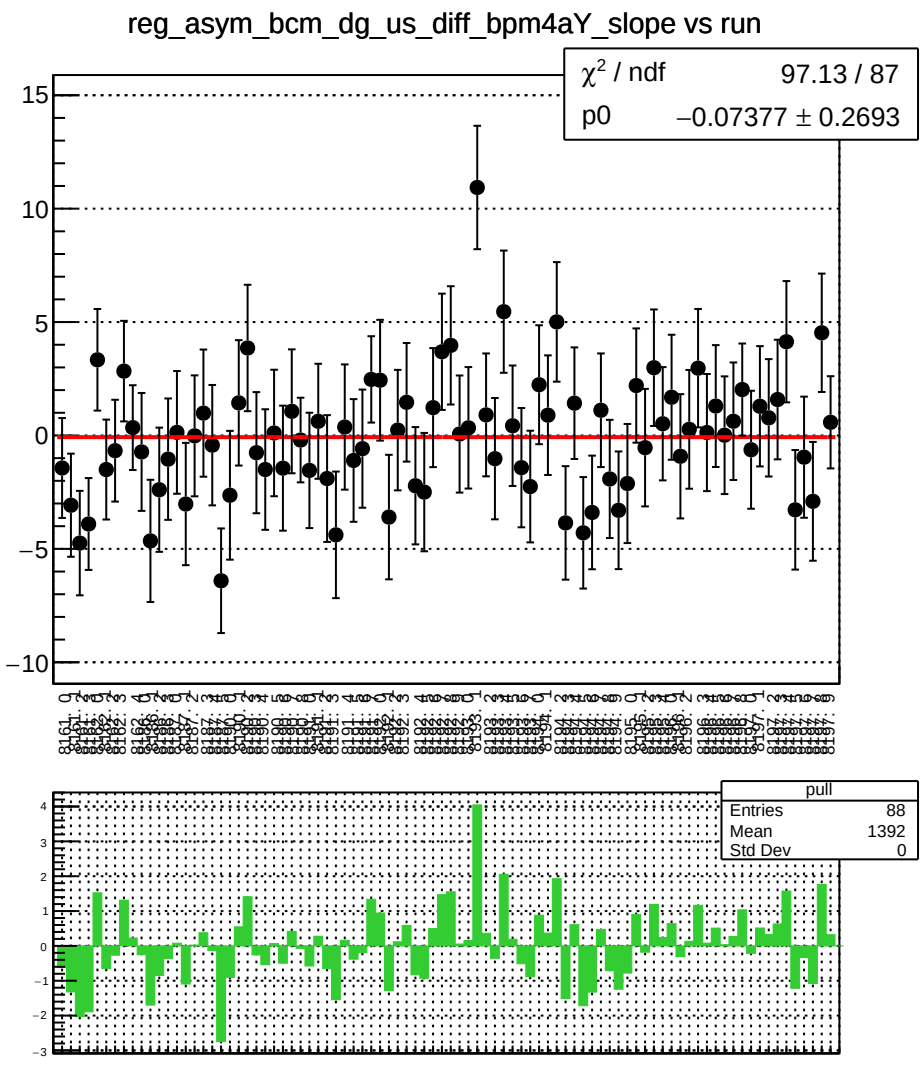

pull1D
Entries 88
Mean −0.0104
Std Dev 1.049

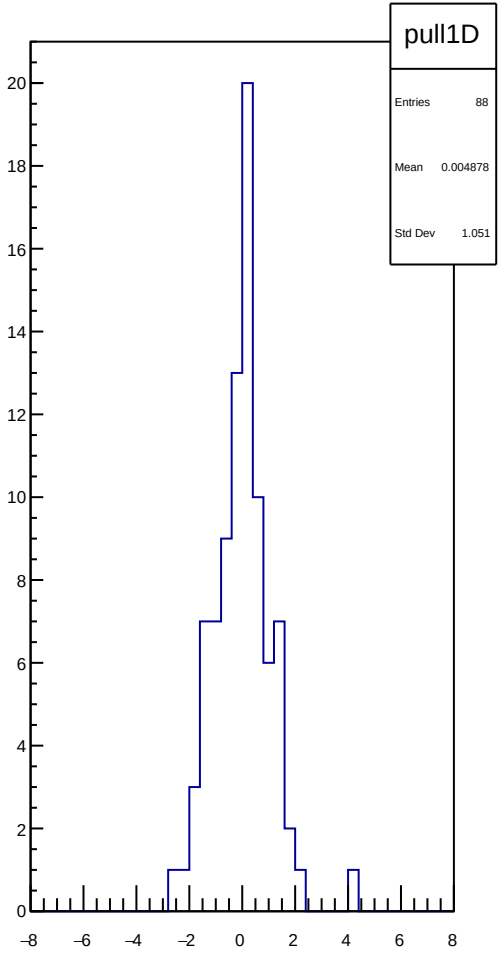

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 122.9 / 87
p0 0.2769 ± 0.01299
pull
Entries 88
Mean 175
Std Dev 0

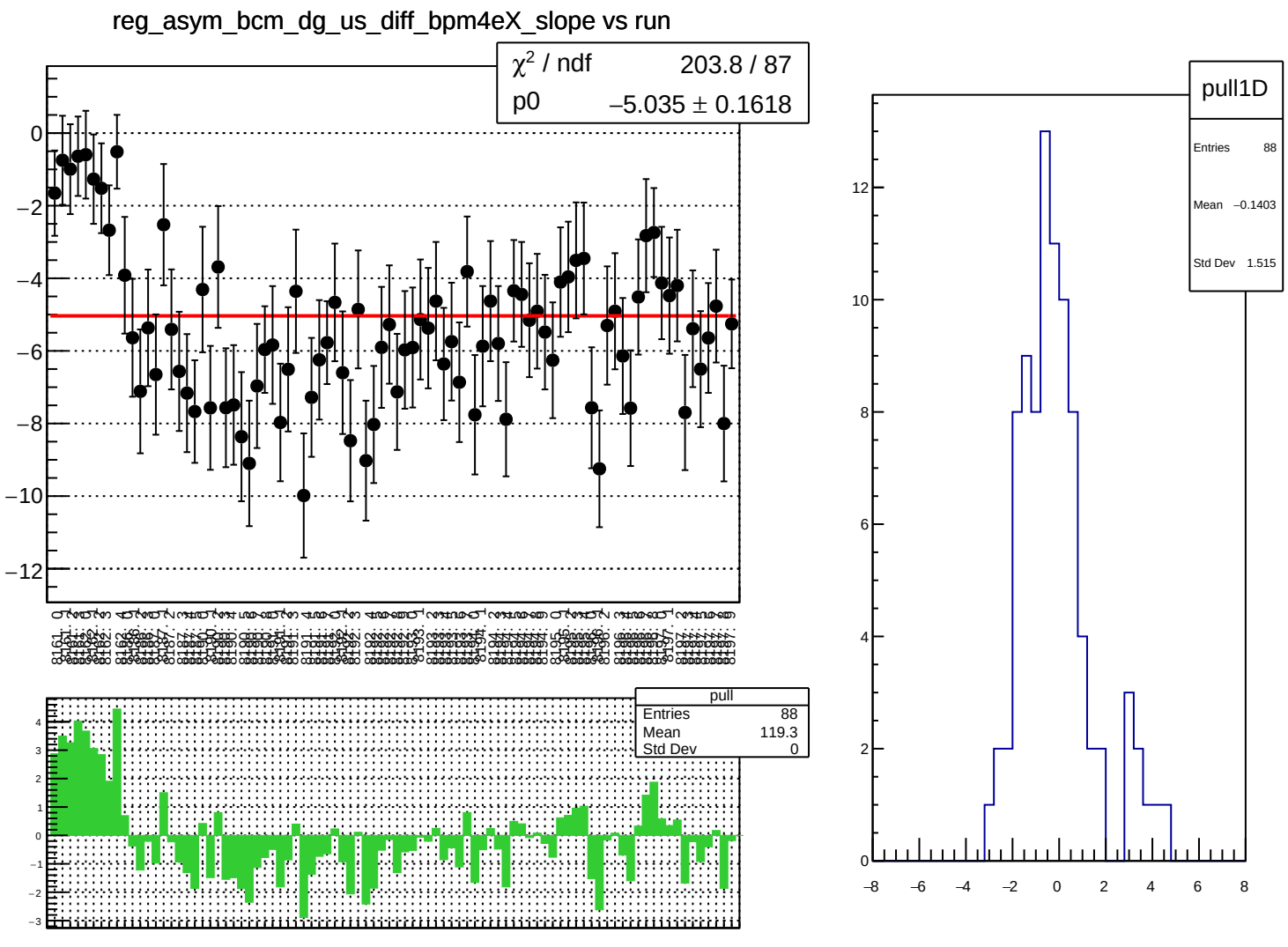

pull1D
Entries 88
Mean 0.03005
Std Dev 1.181

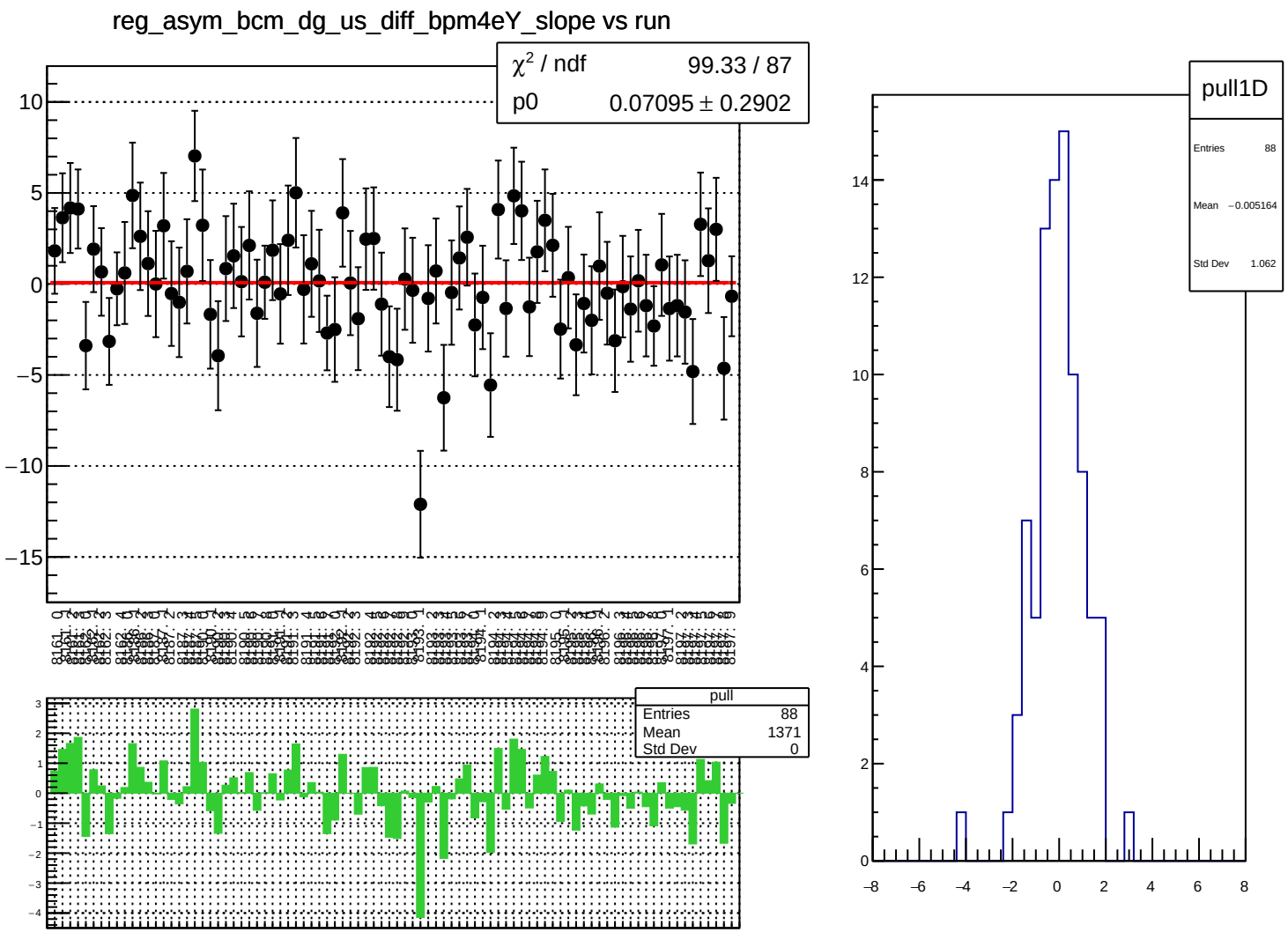

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 240.9 / 87
p0 5.675 ± 0.1617
pull
Entries 88
Mean 118.8
Std Dev 0

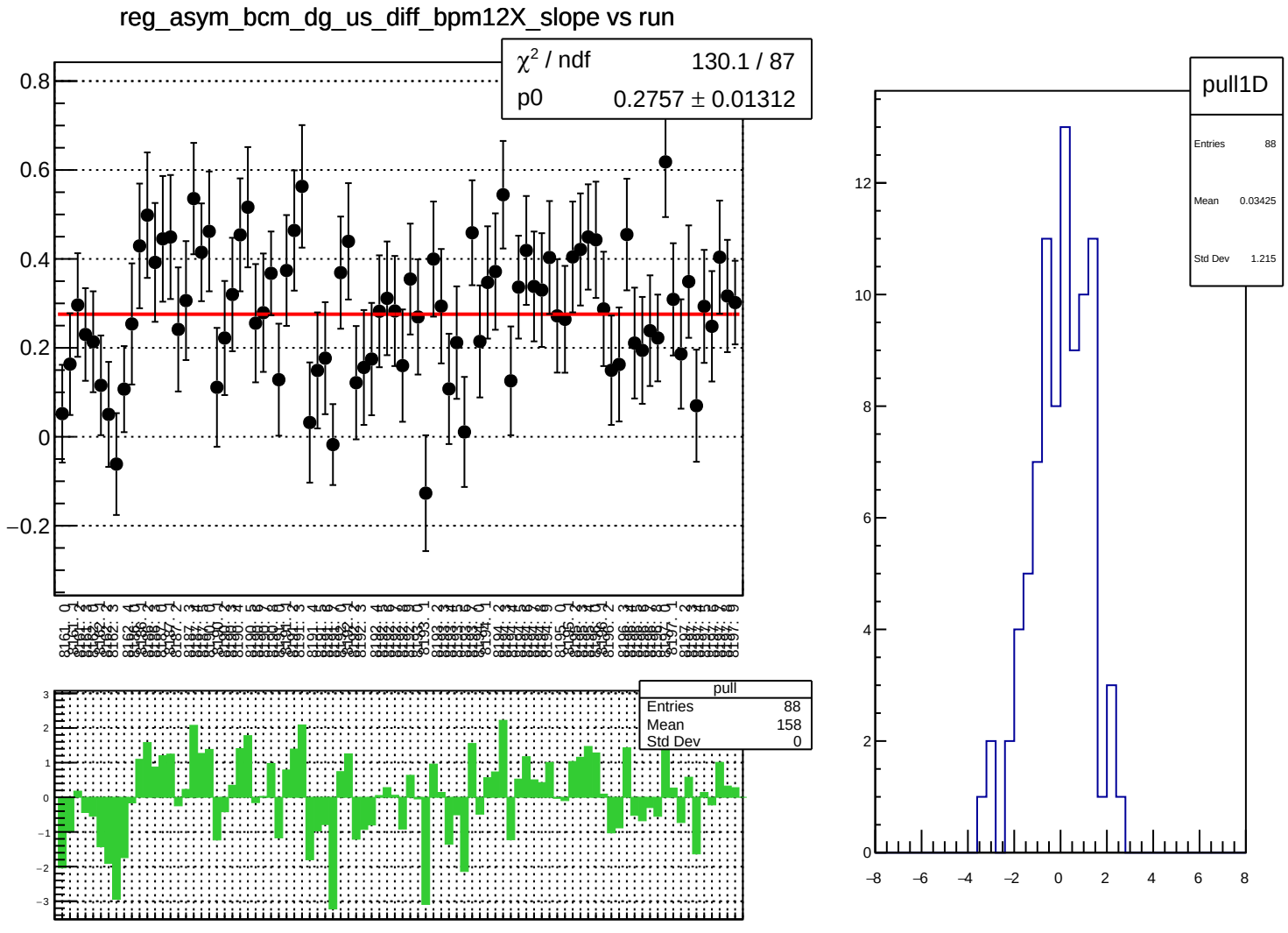

pull1D
Entries 88
Mean 0.1694
Std Dev 1.646

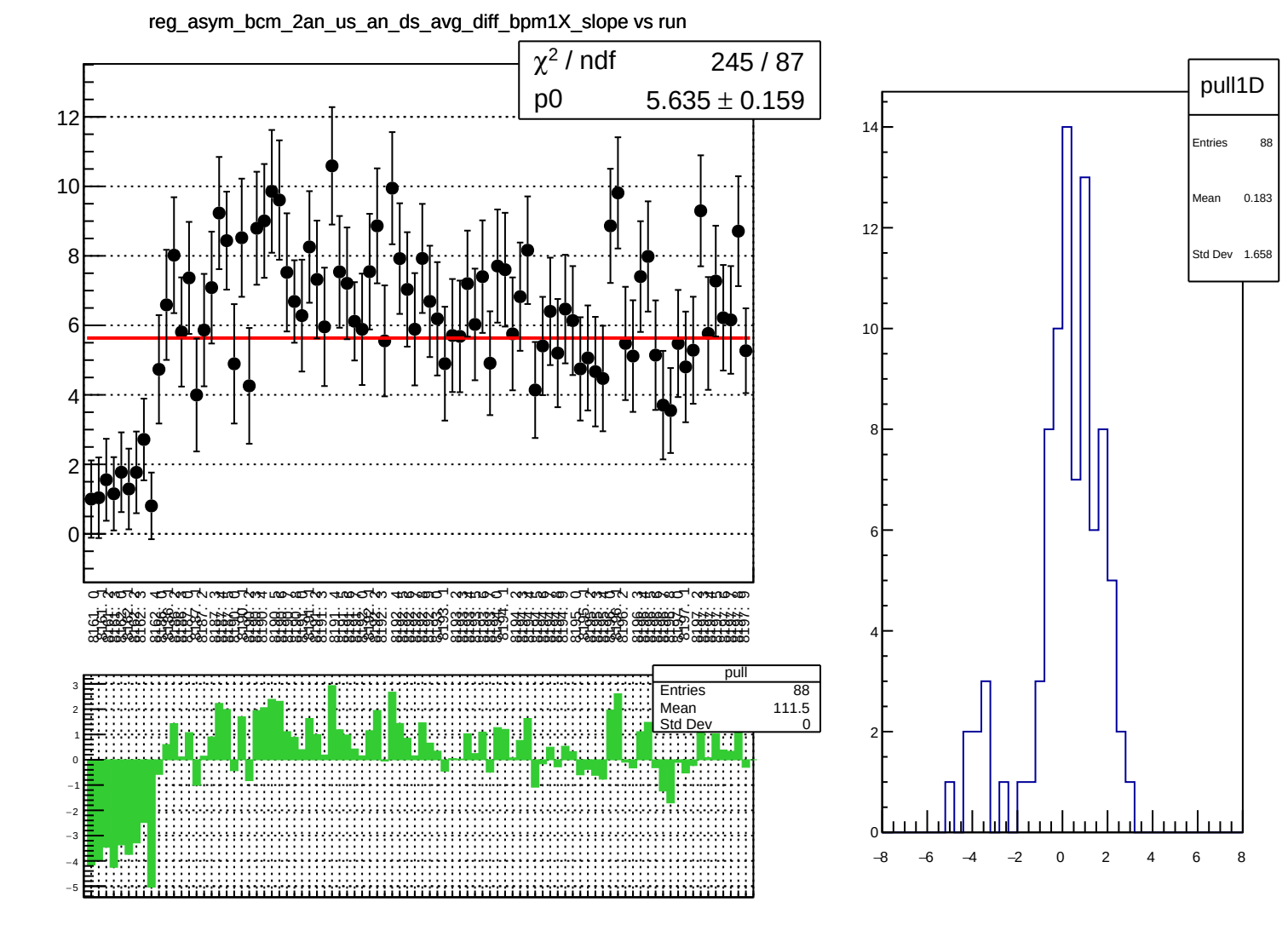

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 97.13 / 87
p0 −0.07377 ± 0.2693
pull
Entries 88
Mean 1392
Std Dev 0

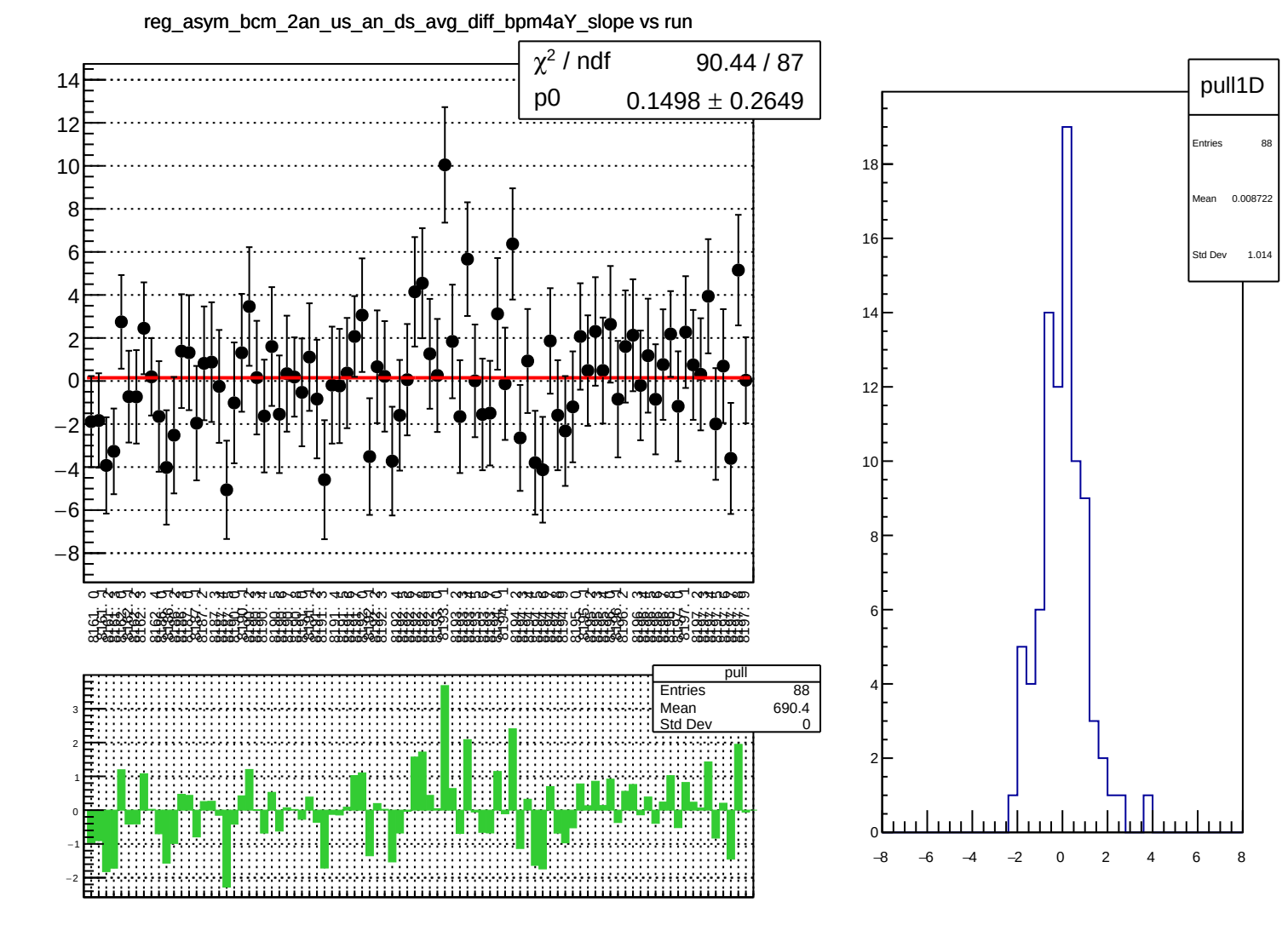

pull1D
Entries 88
Mean 0.004878
Std Dev 1.051

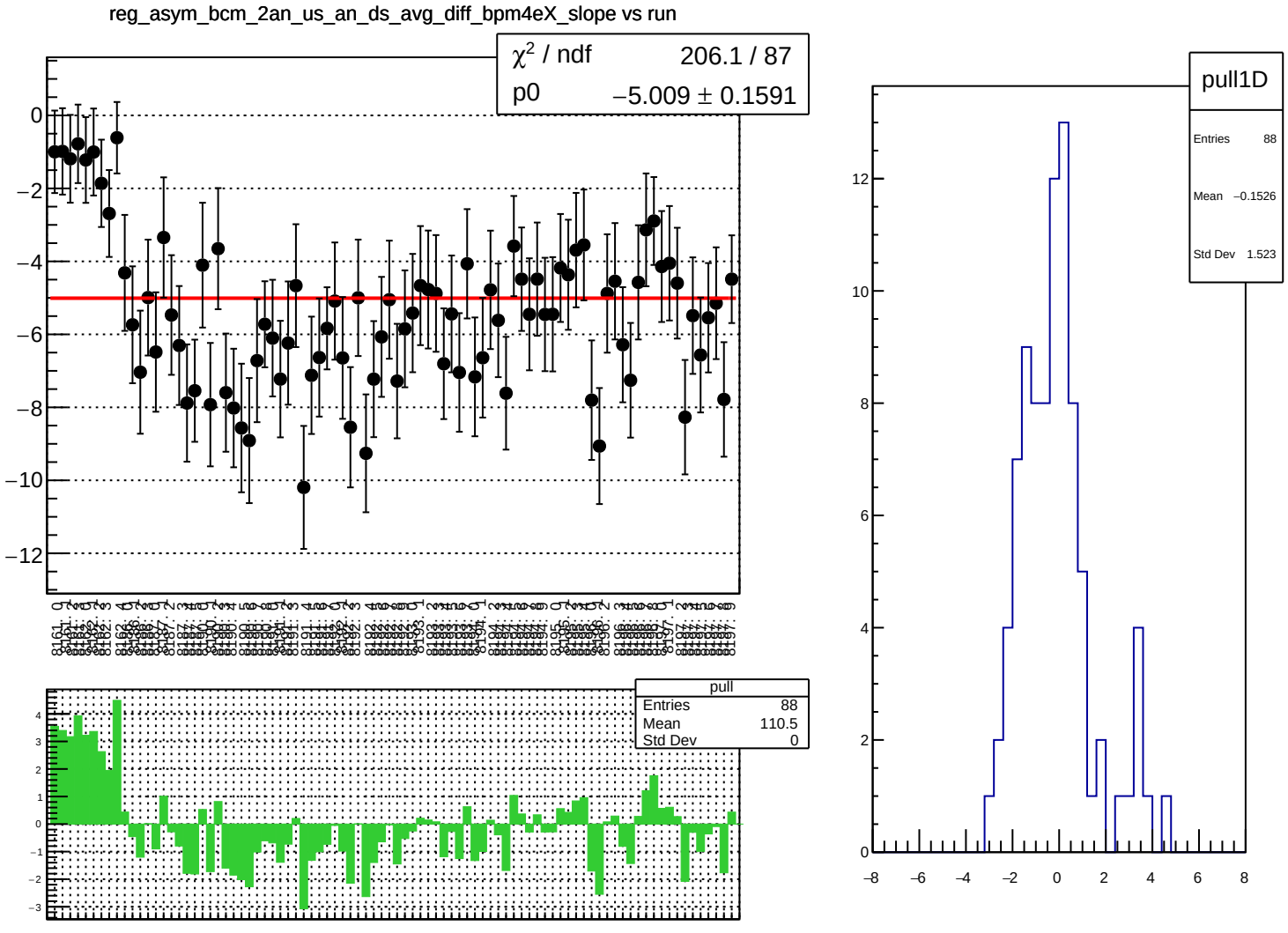

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 203.8 / 87
p0 −5.035 ± 0.1618
pull
Entries 88
Mean 119.3
Std Dev 0
pull1D
Entries 88
Mean −0.1403
Std Dev 1.515

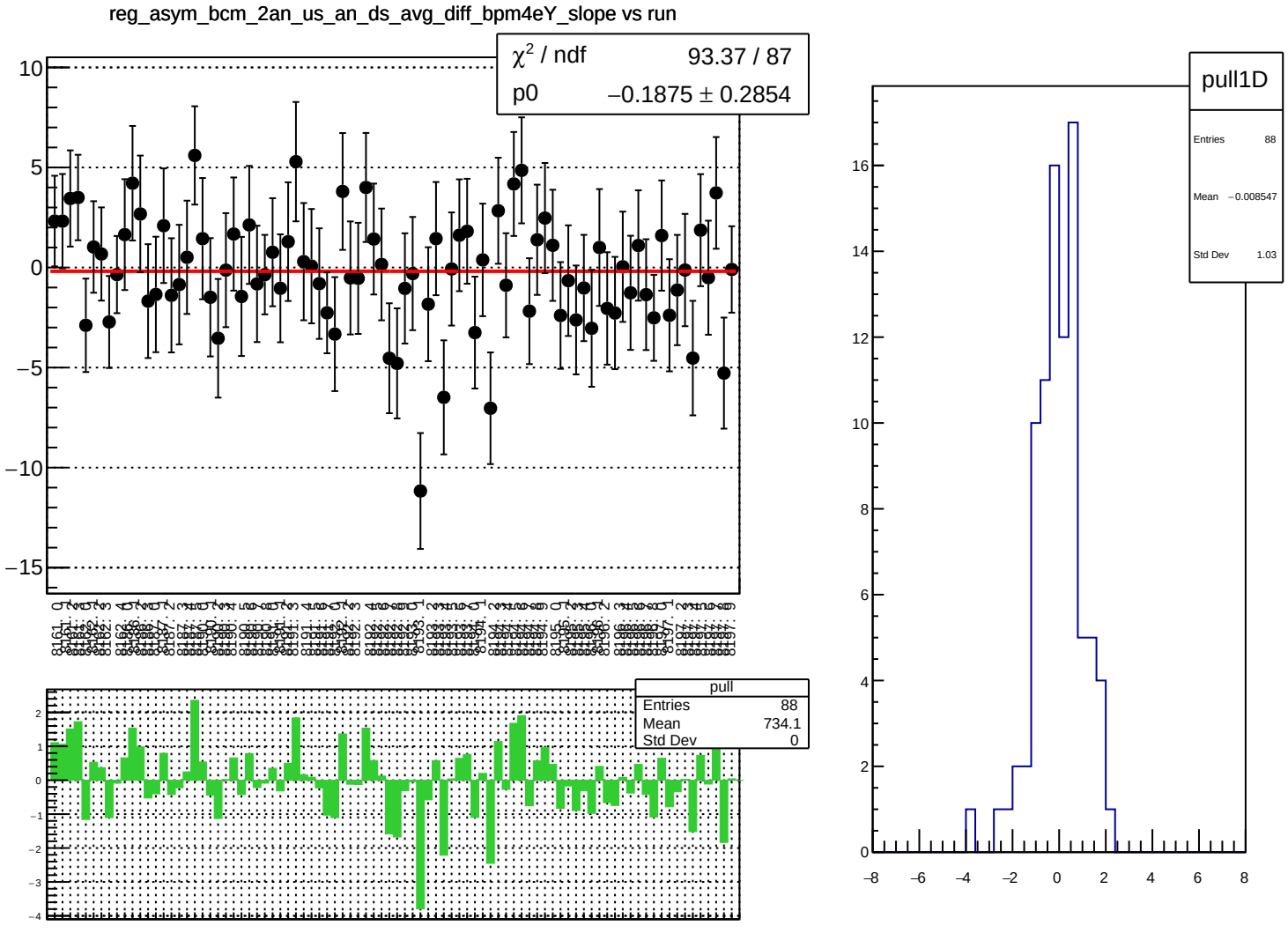

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 99.33 / 87
p0 0.07095 ± 0.2902
pull
Entries 88
Mean 1371
Std Dev 0
pull1D
Entries 88
Mean −0.005164
Std Dev 1.062

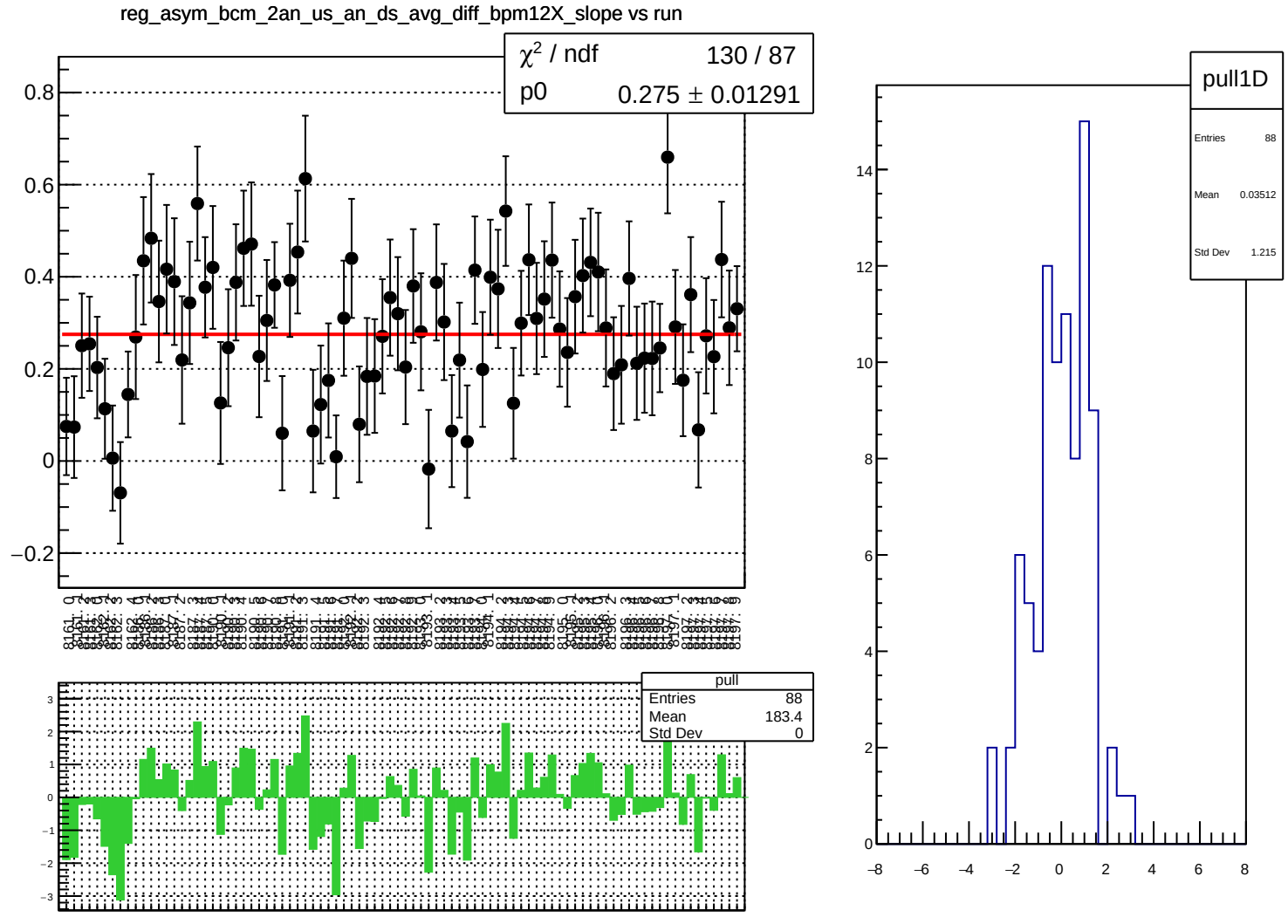

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 130.1 / 87
p0 0.2757 ± 0.01312
pull
Entries 88
Mean 158
Std Dev 0
pull1D
Entries 88
Mean 0.03425
Std Dev 1.215

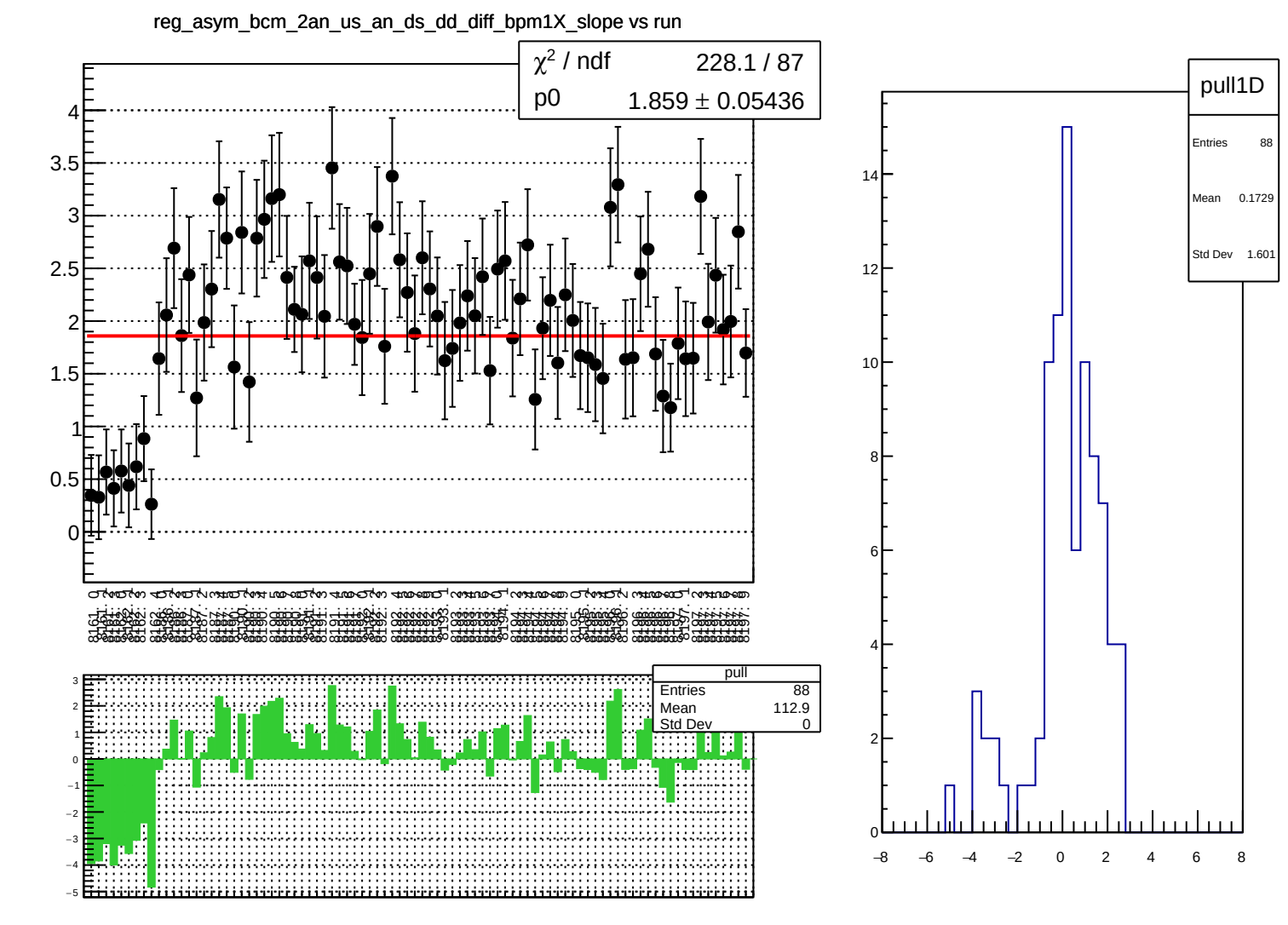

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 245 / 87
p0 5.635 ± 0.159
pull
Entries 88
Mean 111.5
Std Dev 0
pull1D
Entries 88
Mean 0.183
Std Dev 1.658

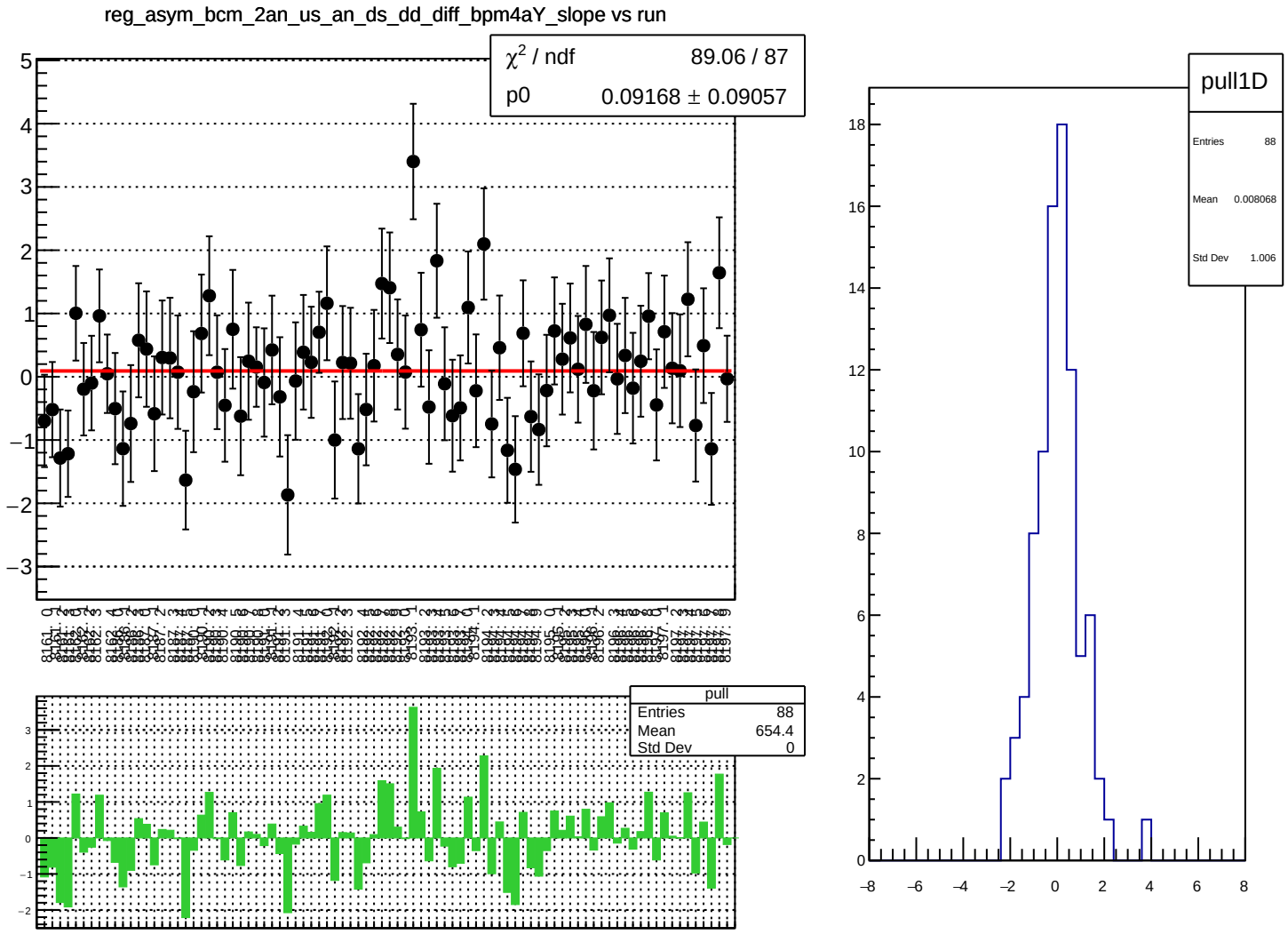

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.44 / 87
p0 0.1498 ± 0.2649
pull
Entries 88
Mean 690.4
Std Dev 0
pull1D
Entries 88
Mean 0.008722
Std Dev 1.014

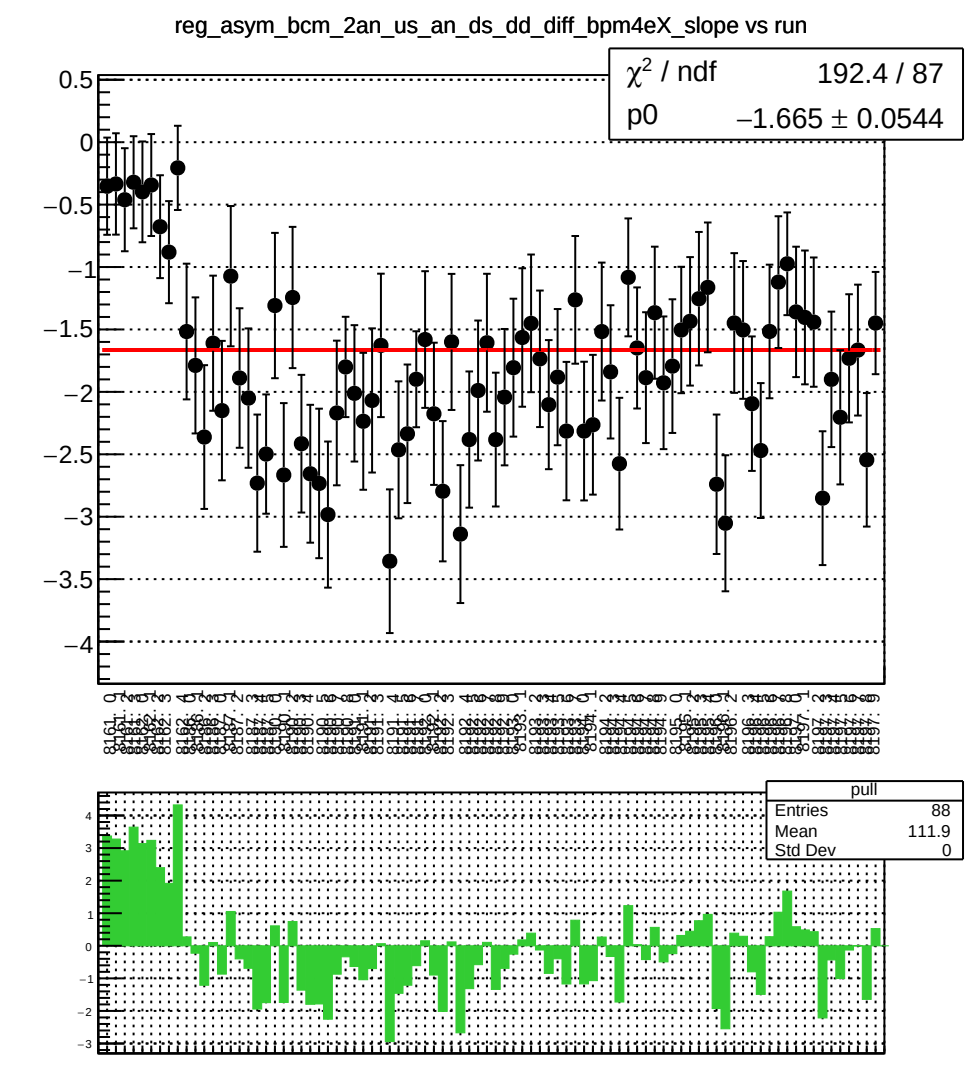

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 206.1 / 87
p0 −5.009 ± 0.1591
pull
Entries 88
Mean 110.5
Std Dev 0
pull1D
Entries 88
Mean −0.1526
Std Dev 1.523

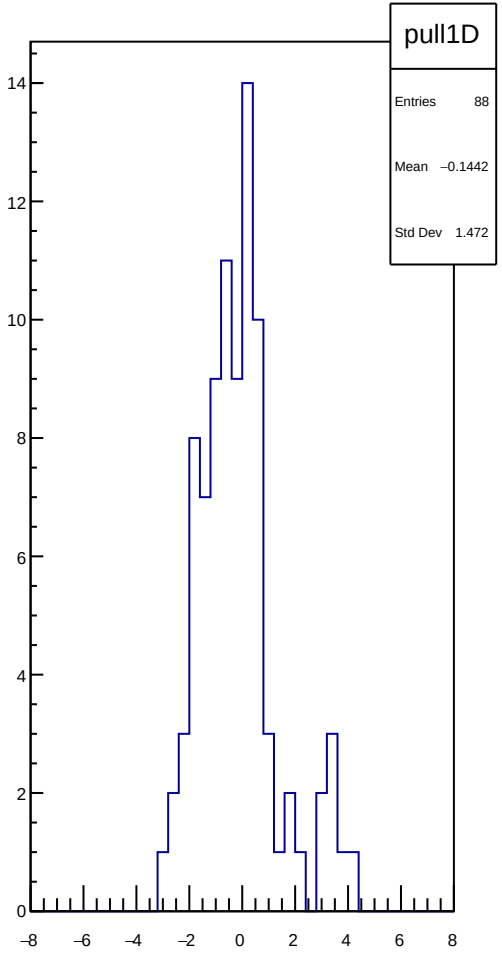

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.37 / 87
p0 −0.1875 ± 0.2854
pull
Entries 88
Mean 734.1
Std Dev 0
pull1D
Entries 88
Mean −0.008547
Std Dev 1.03

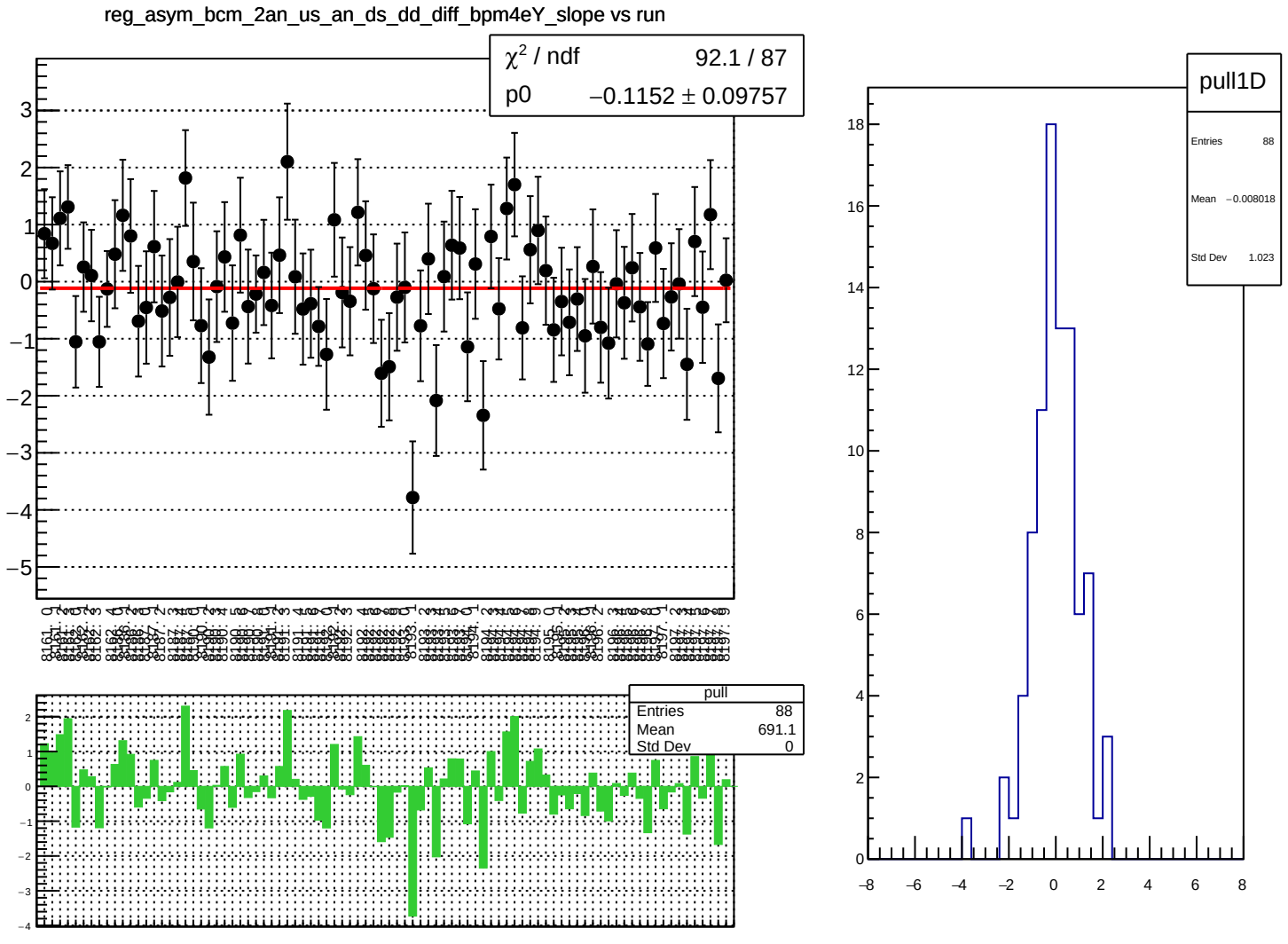

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 130 / 87
p0 0.275 ± 0.01291
pull
Entries 88
Mean 183.4
Std Dev 0
pull1D
Entries 88
Mean 0.03512
Std Dev 1.215

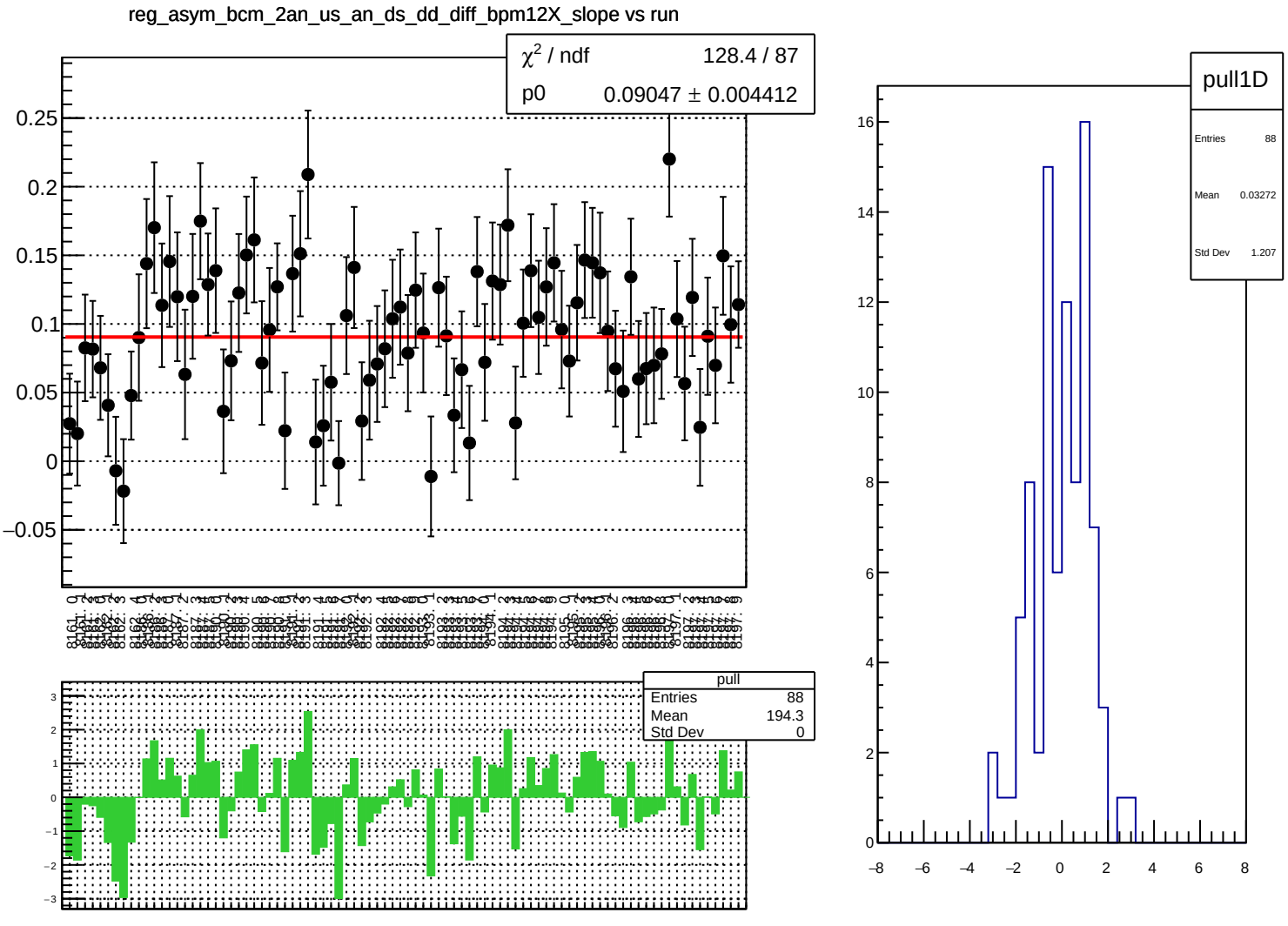

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 228.1 / 87
p0 1.859 ± 0.05436
pull
Entries 88
Mean 112.9
Std Dev 0
pull1D
Entries 88
Mean 0.1729
Std Dev 1.601

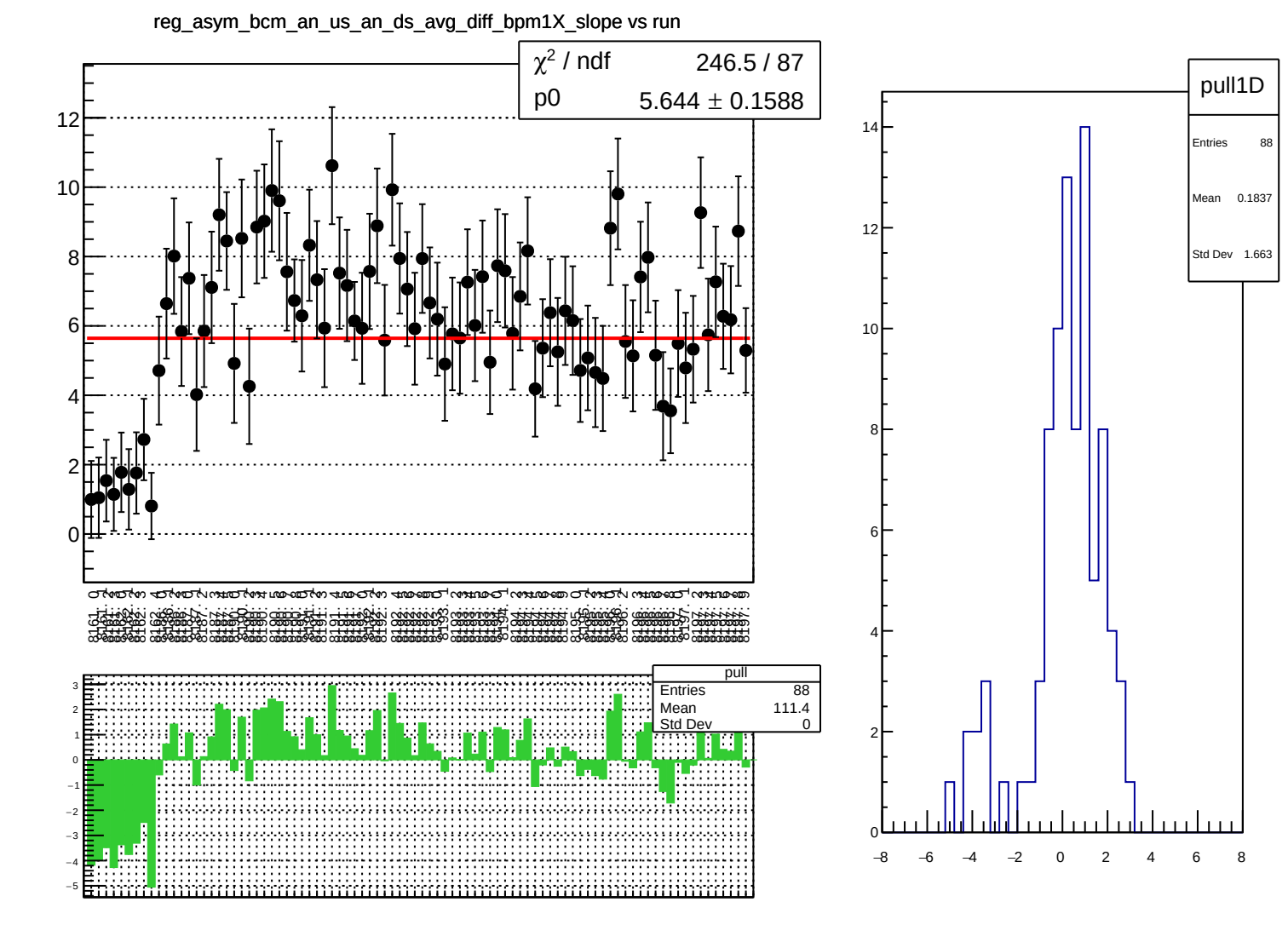

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.06 / 87
p0 0.09168 ± 0.09057
pull
Entries 88
Mean 654.4
Std Dev 0
pull1D
Entries 88
Mean 0.008068
Std Dev 1.006

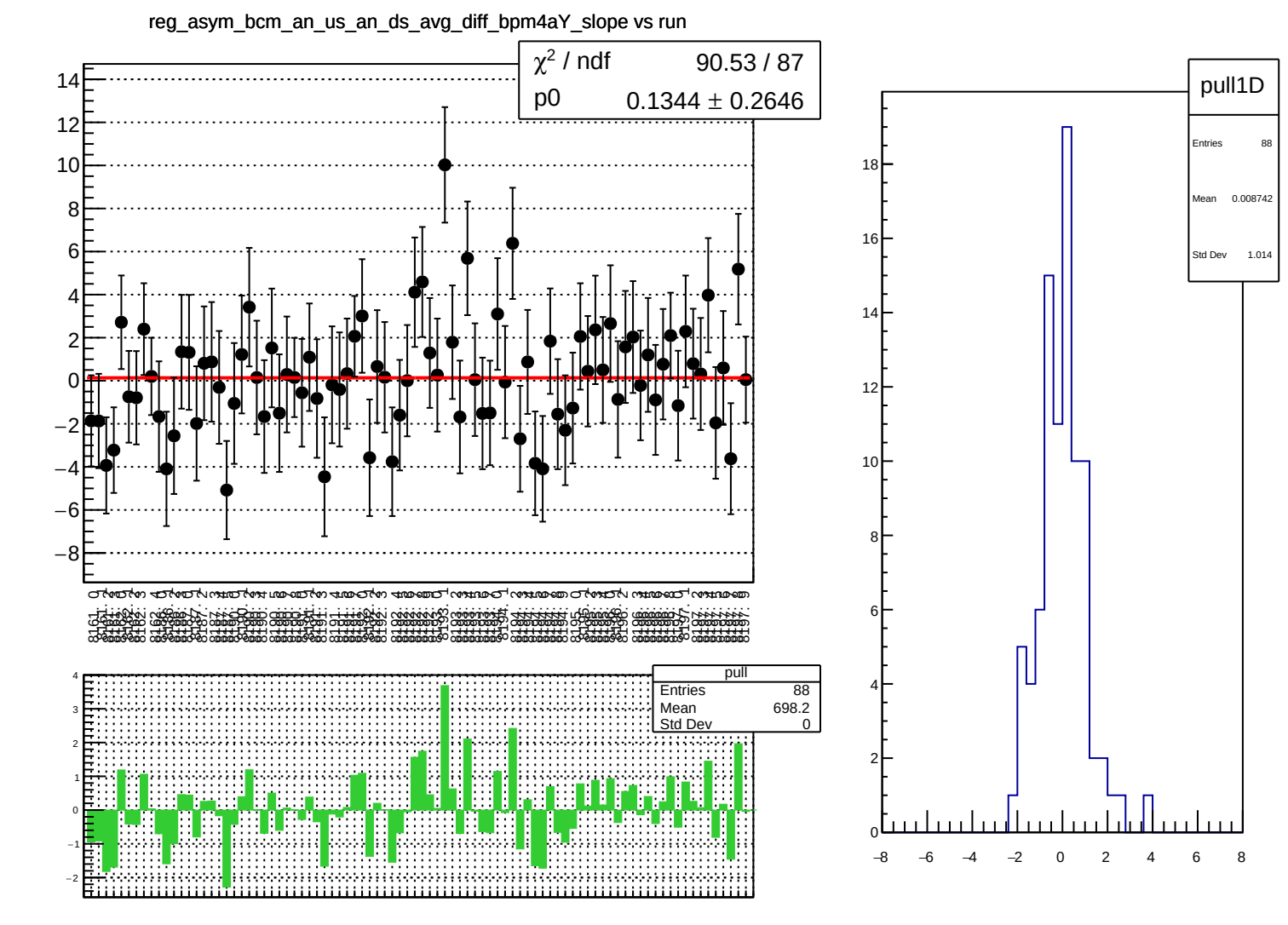

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 192.4 / 87
p0 −1.665 ± 0.0544
pull
Entries 88
Mean 111.9
Std Dev 0

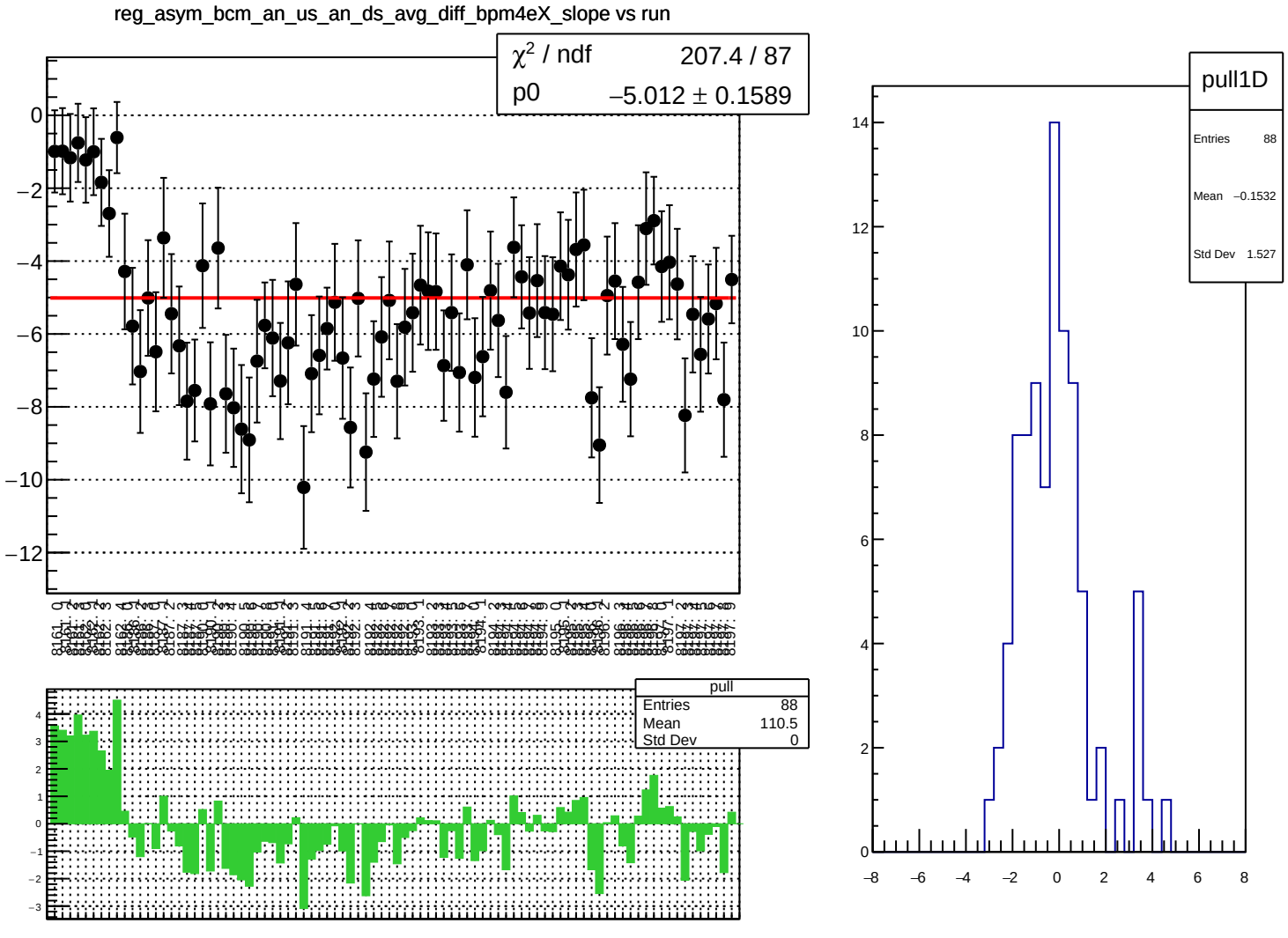

pull1D
Entries 88
Mean −0.1442
Std Dev 1.472

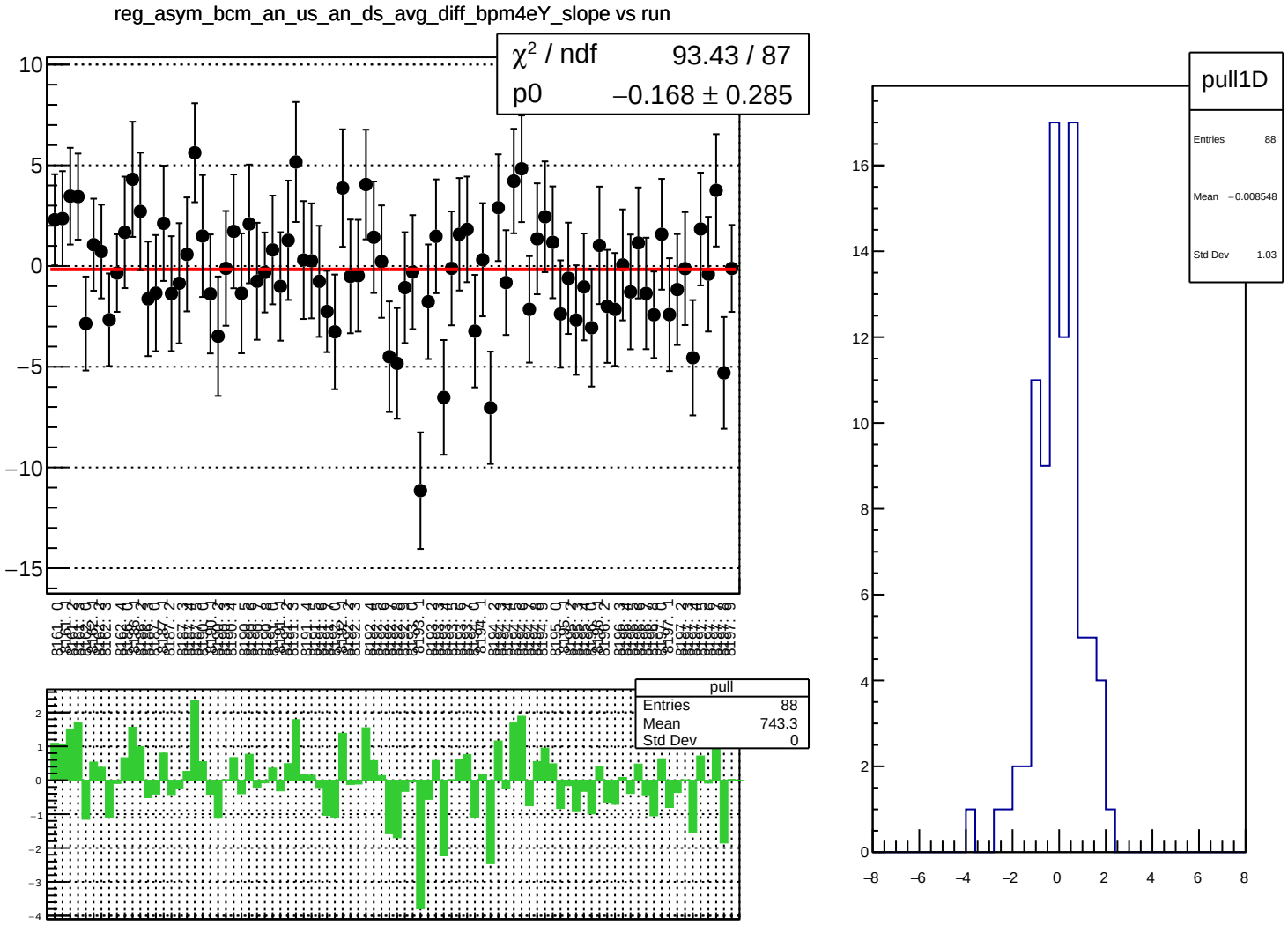

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.1 / 87
p0 −0.1152 ± 0.09757
pull
Entries 88
Mean 691.1
Std Dev 0
pull1D
Entries 88
Mean −0.008018
Std Dev 1.023

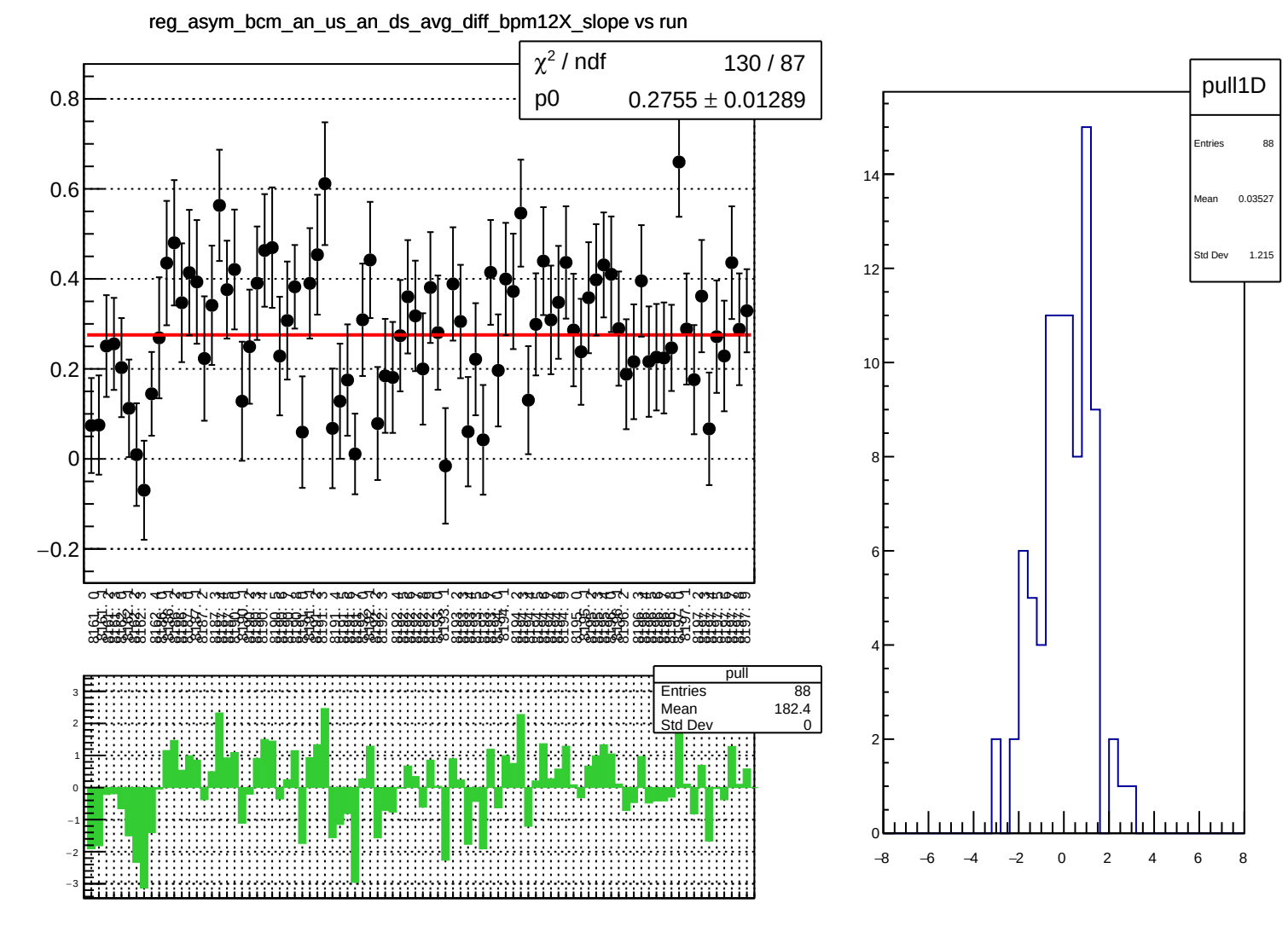

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 128.4 / 87
p0 0.09047 ± 0.004412
0.25
0.2
0.15
0.1
0.05
0
−0.05
pull
Entries 88
Mean 194.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.03272
Std Dev 1.207
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

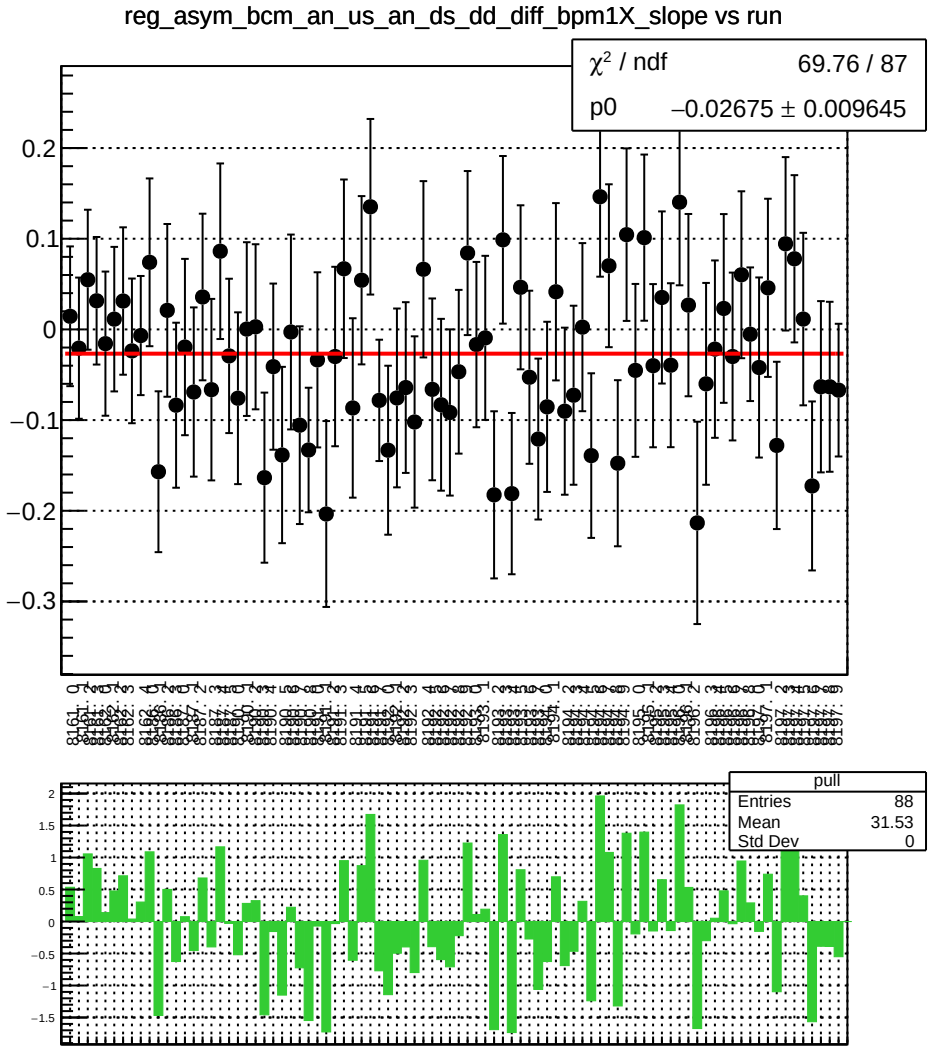

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 246.5 / 87
p0 5.644 ± 0.1588
pull
Entries 88
Mean 111.4
Std Dev 0
pull1D
Entries 88
Mean 0.1837
Std Dev 1.663

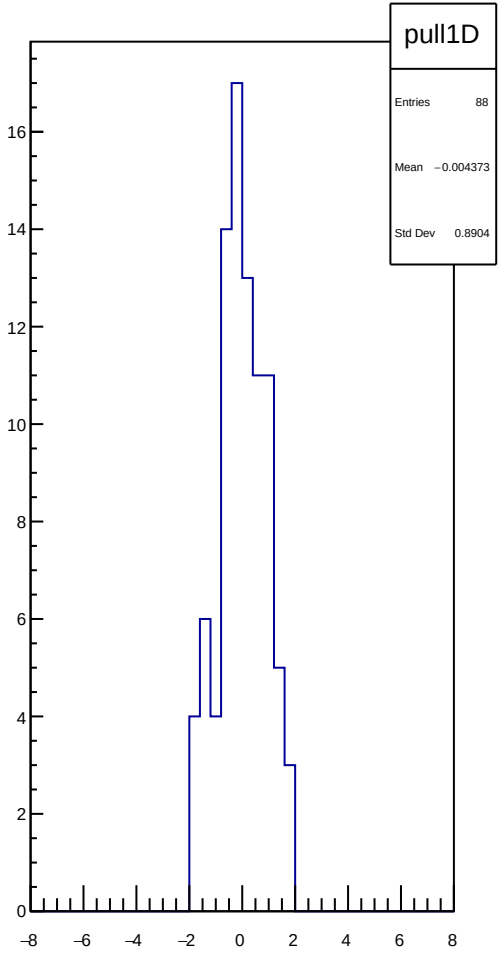

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.53 / 87
p0 0.1344 ± 0.2646
pull
Entries 88
Mean 698.2
Std Dev 0
pull1D
Entries 88
Mean 0.008742
Std Dev 1.014

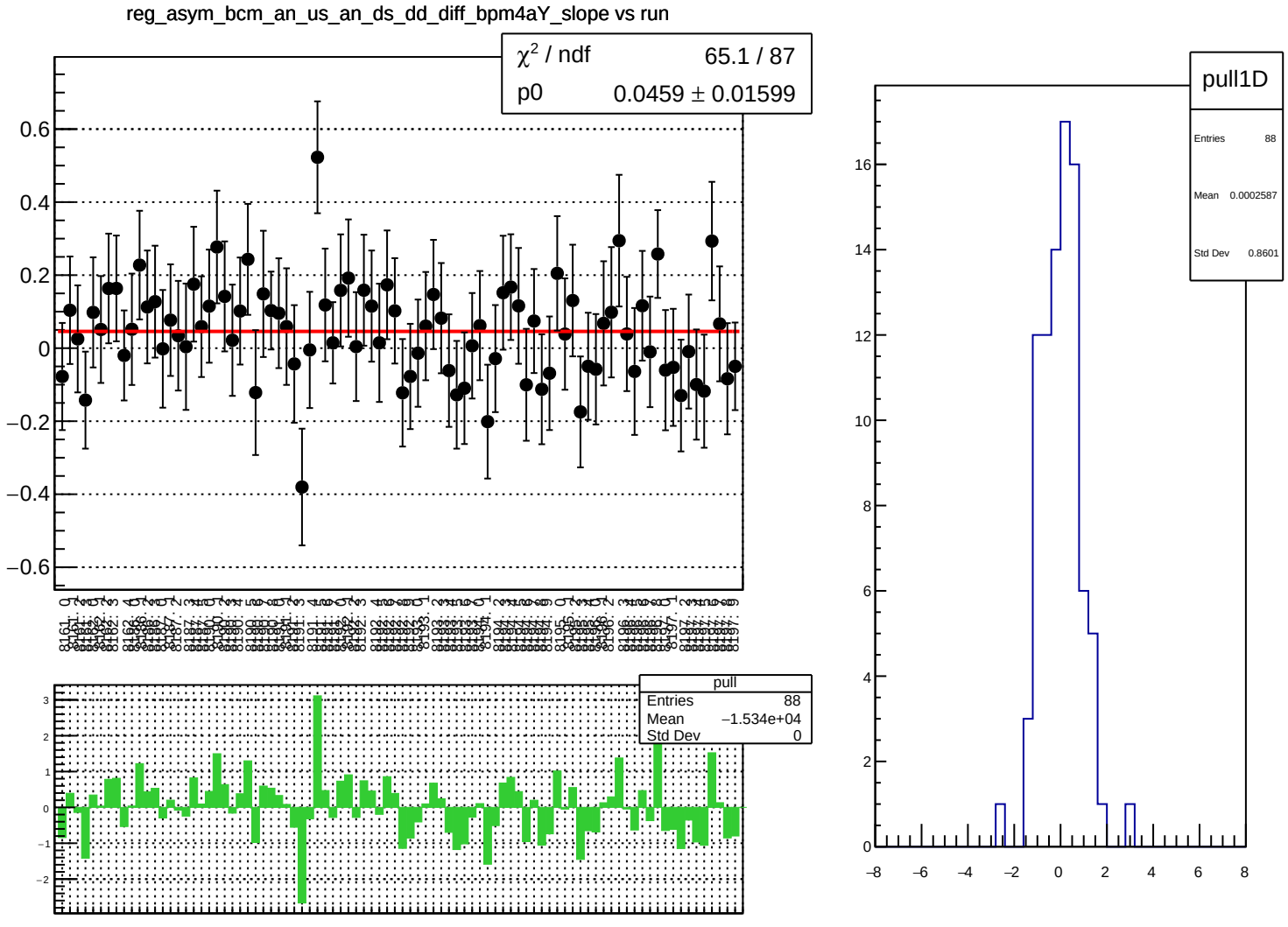

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 207.4 / 87
p0 −5.012 ± 0.1589
pull
Entries 88
Mean 110.5
Std Dev 0
pull1D
Entries 88
Mean −0.1532
Std Dev 1.527

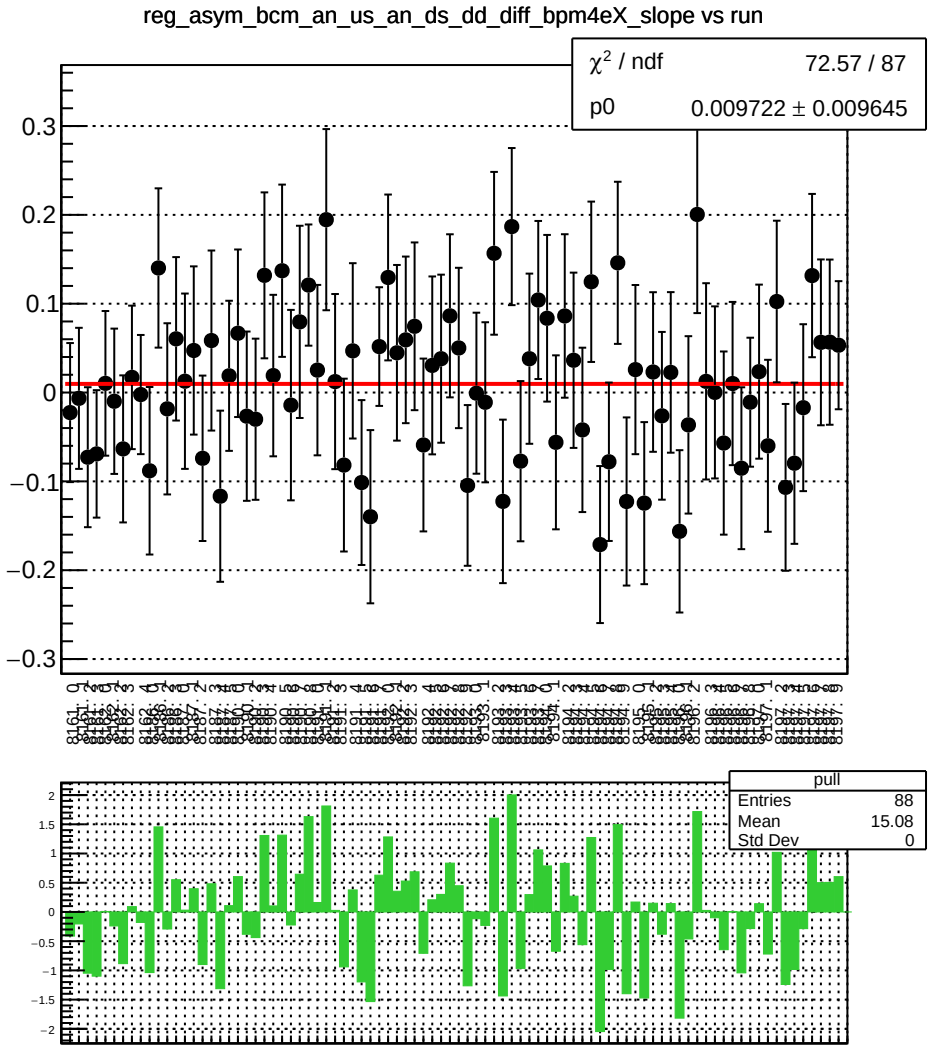

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.43 / 87
p0 −0.168 ± 0.285
pull
Entries 88
Mean 743.3
Std Dev 0
pull1D
Entries 88
Mean −0.008548
Std Dev 1.03

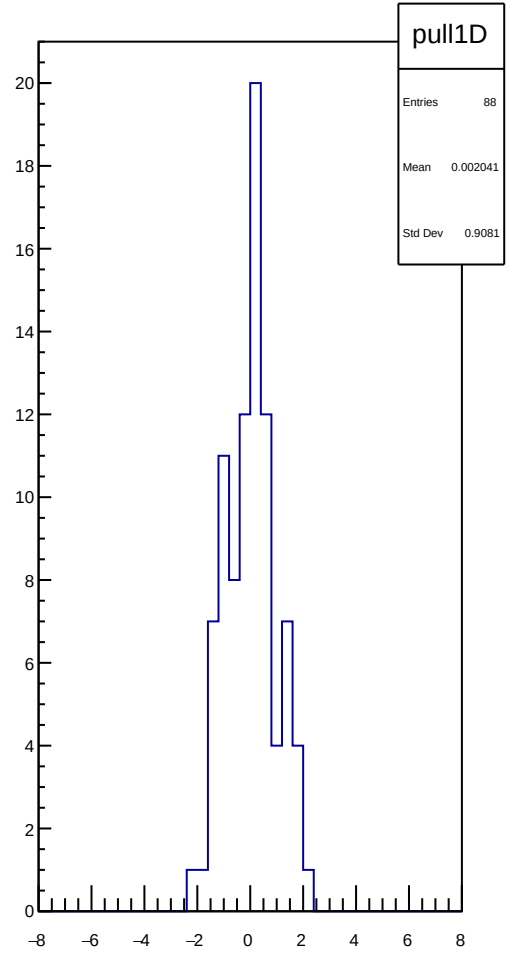

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 130 / 87
p0 0.2755 ± 0.01289
pull
Entries 88
Mean 182.4
Std Dev 0
pull1D
Entries 88
Mean 0.03527
Std Dev 1.215

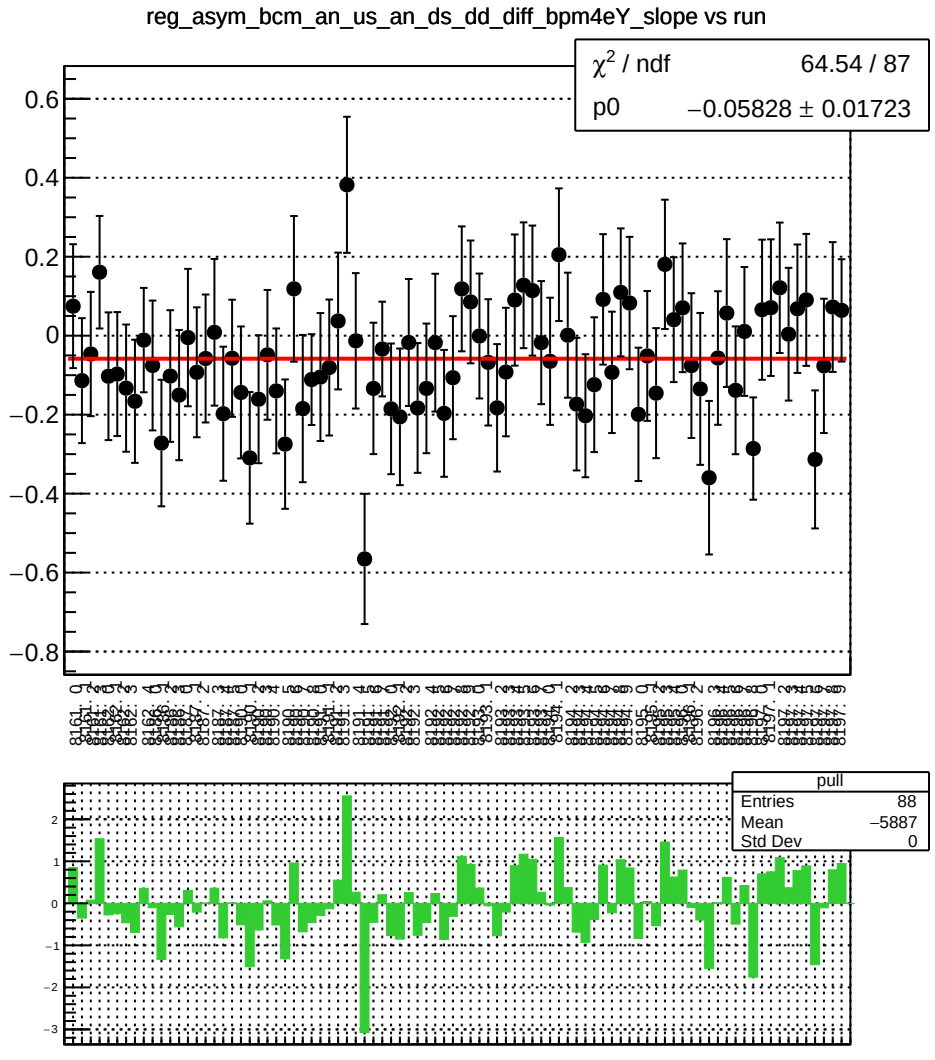

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 69.76 / 87
p0 −0.02675 ± 0.009645
pull
Entries 88
Mean 31.53
Std Dev 0

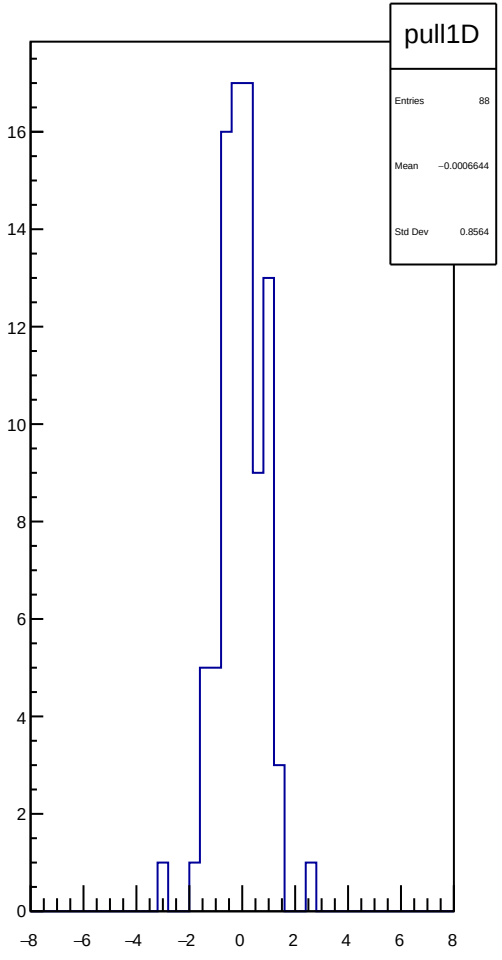

pull1D
Entries 88
Mean −0.004373
Std Dev 0.8904

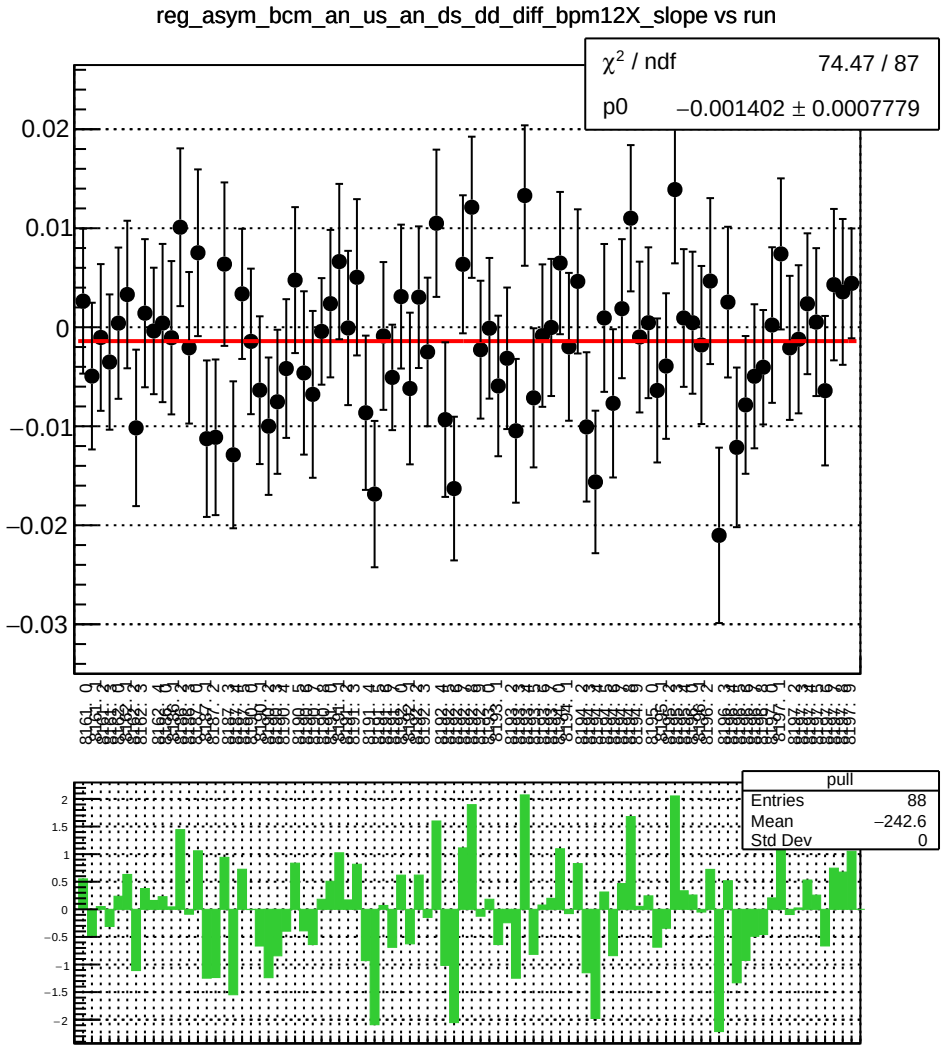

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.1 / 87
p0 0.0459 ± 0.01599
pull
Entries 88
Mean −1.534e+04
Std Dev 0
pull1D
Entries 88
Mean 0.0002587
Std Dev 0.8601

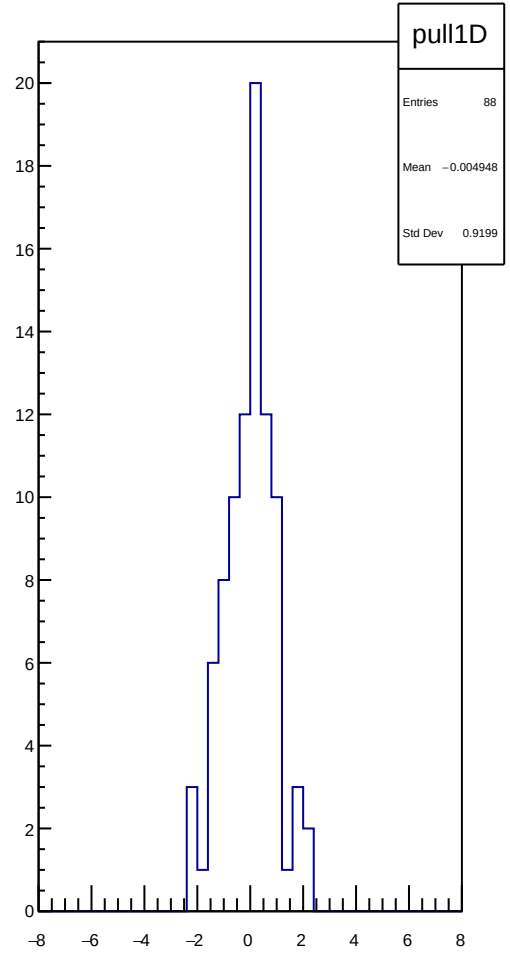

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.57 / 87
p0 0.009722 ± 0.009645
pull
Entries 88
Mean 15.08
Std Dev 0

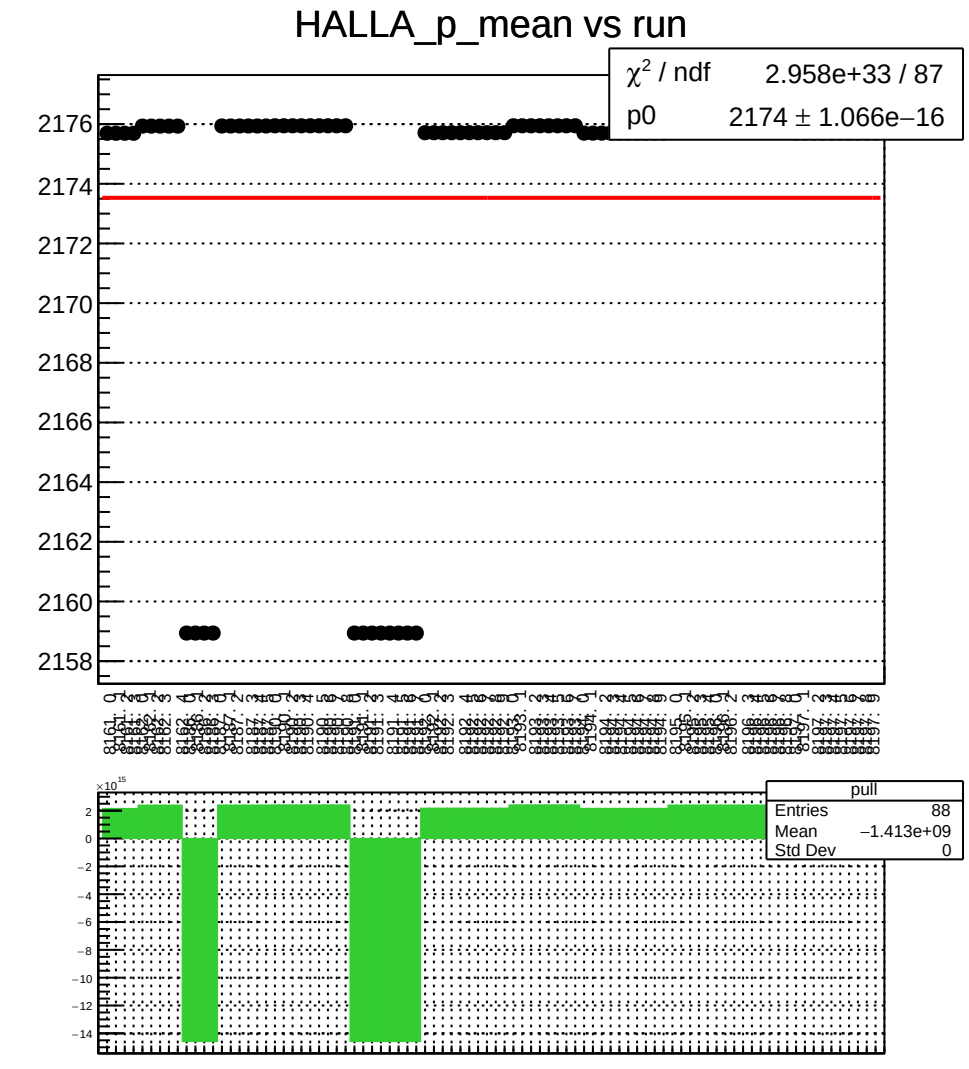

pull1D
Entries 88
Mean 0.002041
Std Dev 0.9081

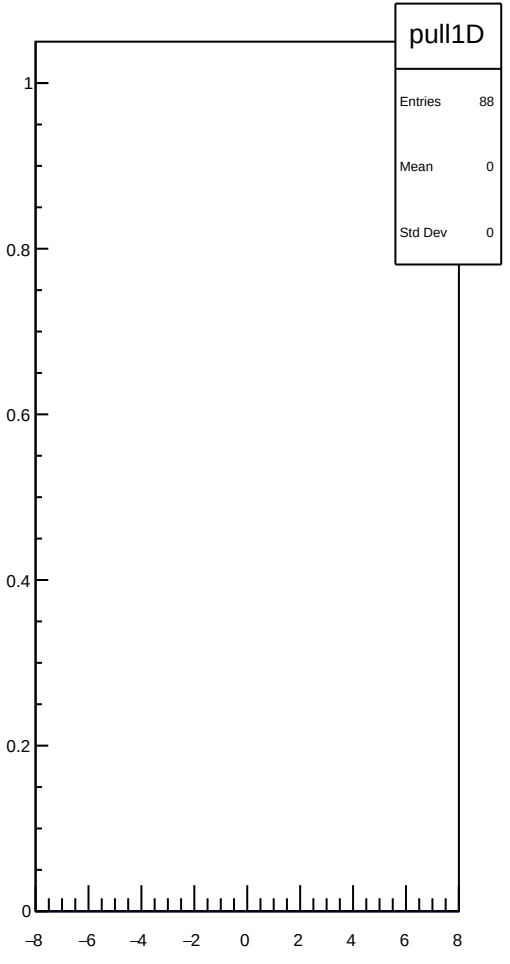

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.54 / 87
p0 −0.05828 ± 0.01723
pull
Entries 88
Mean −5887
Std Dev 0

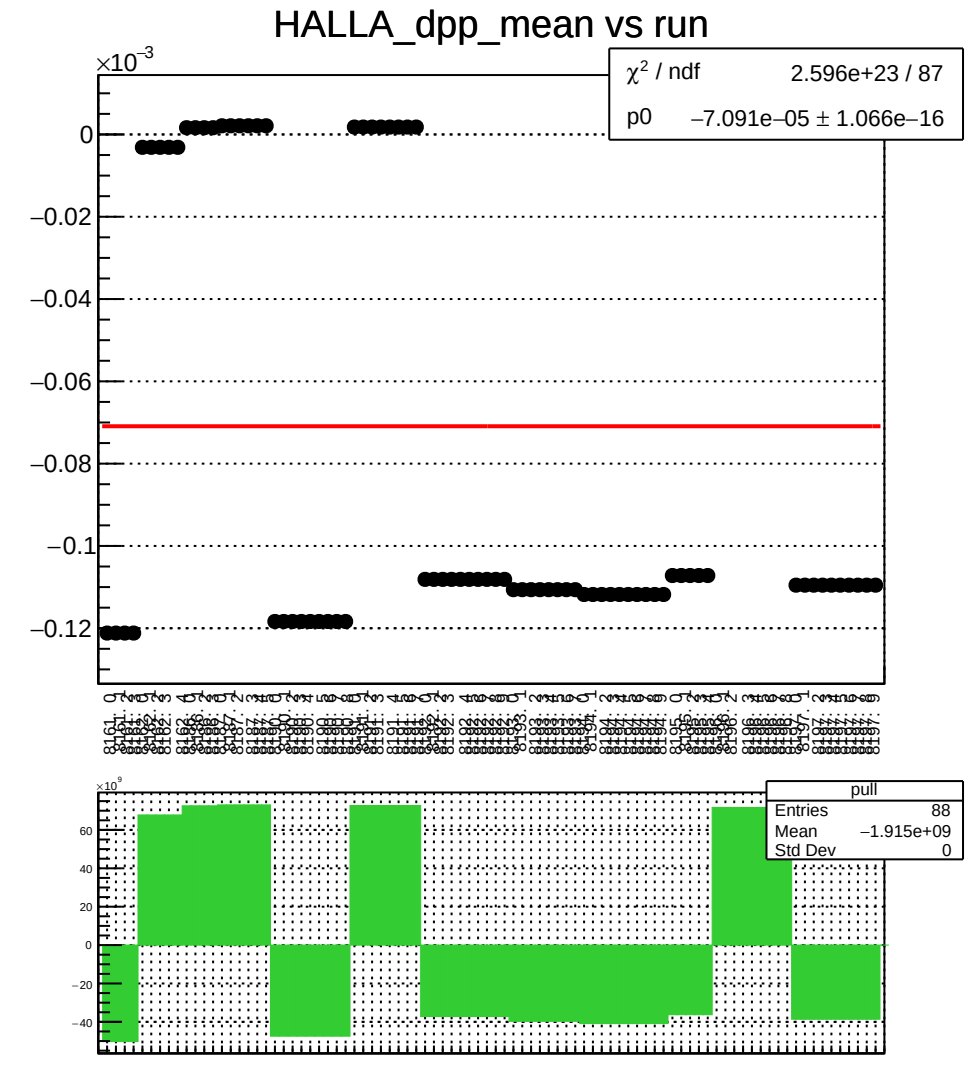

pull1D
Entries 88
Mean −0.0006644
Std Dev 0.8564

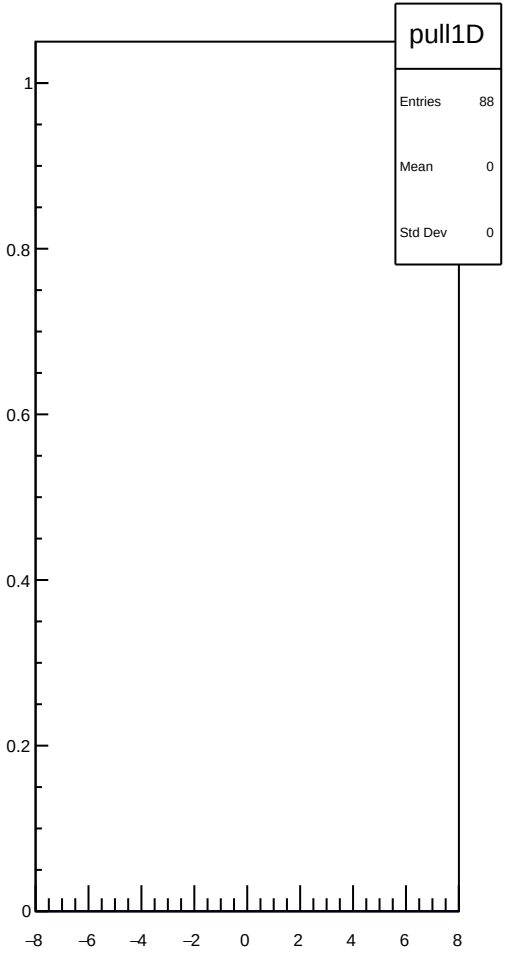

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 74.47 / 87
p0 −0.001402 ± 0.0007779
pull
Entries 88
Mean −242.6
Std Dev 0

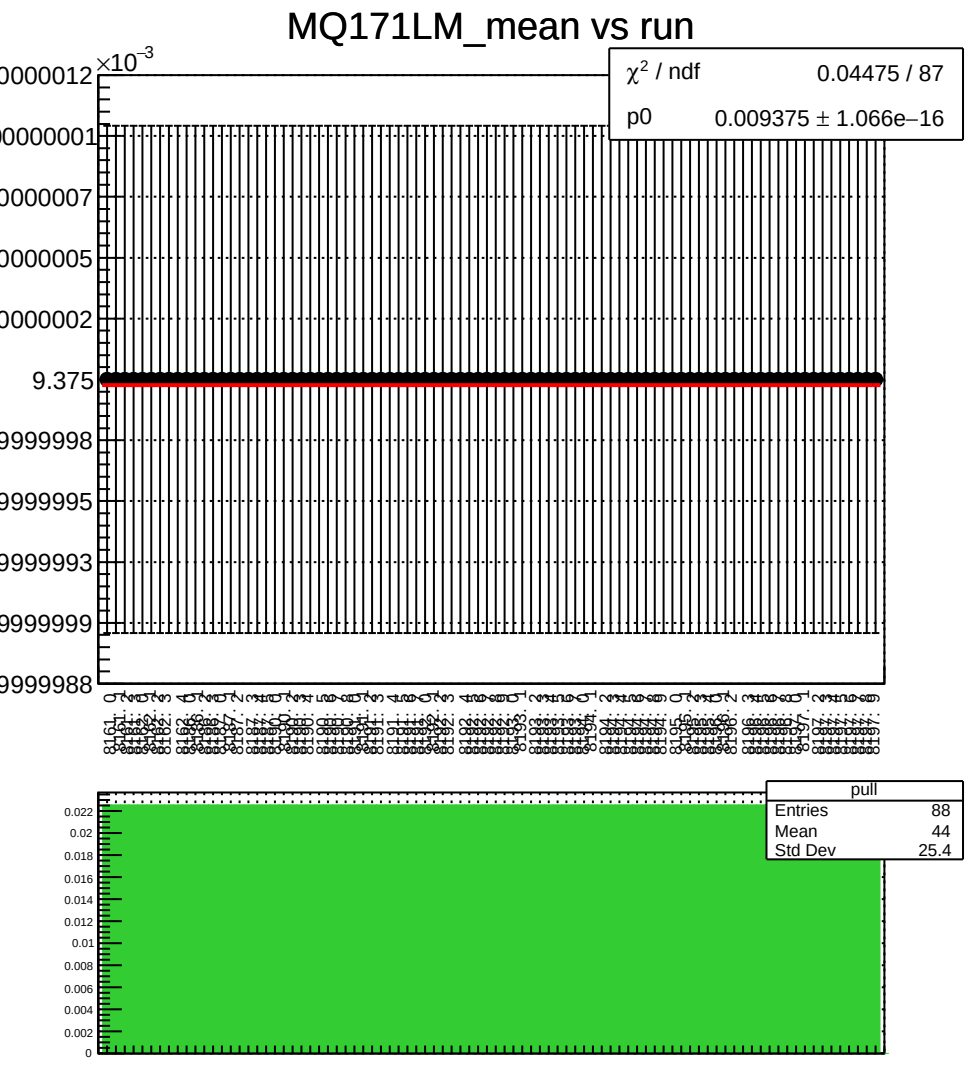

pull1D
Entries 88
Mean −0.004948
Std Dev 0.9199

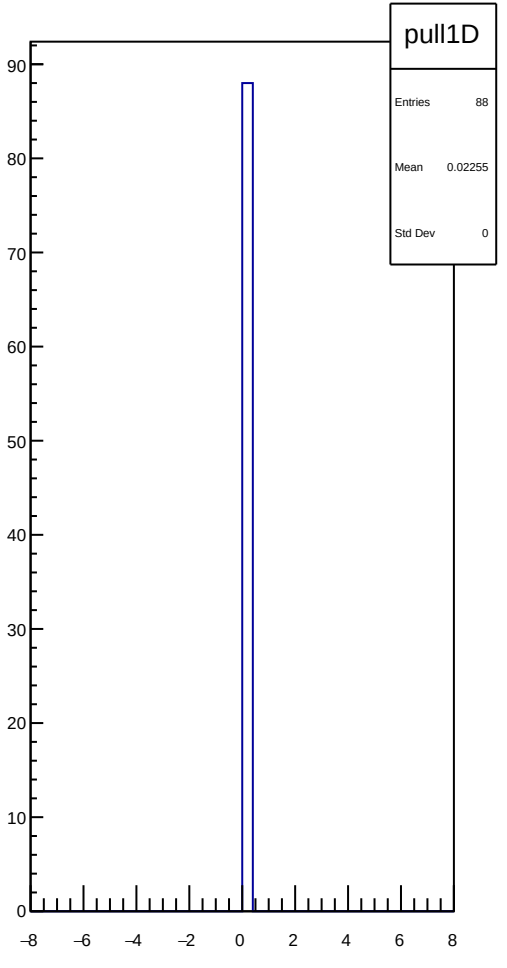

HALLA_p_mean vs run
χ² / ndf 2.958e+33 / 87
p0 2174 ± 1.066e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 88
Mean −1.413e+09
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

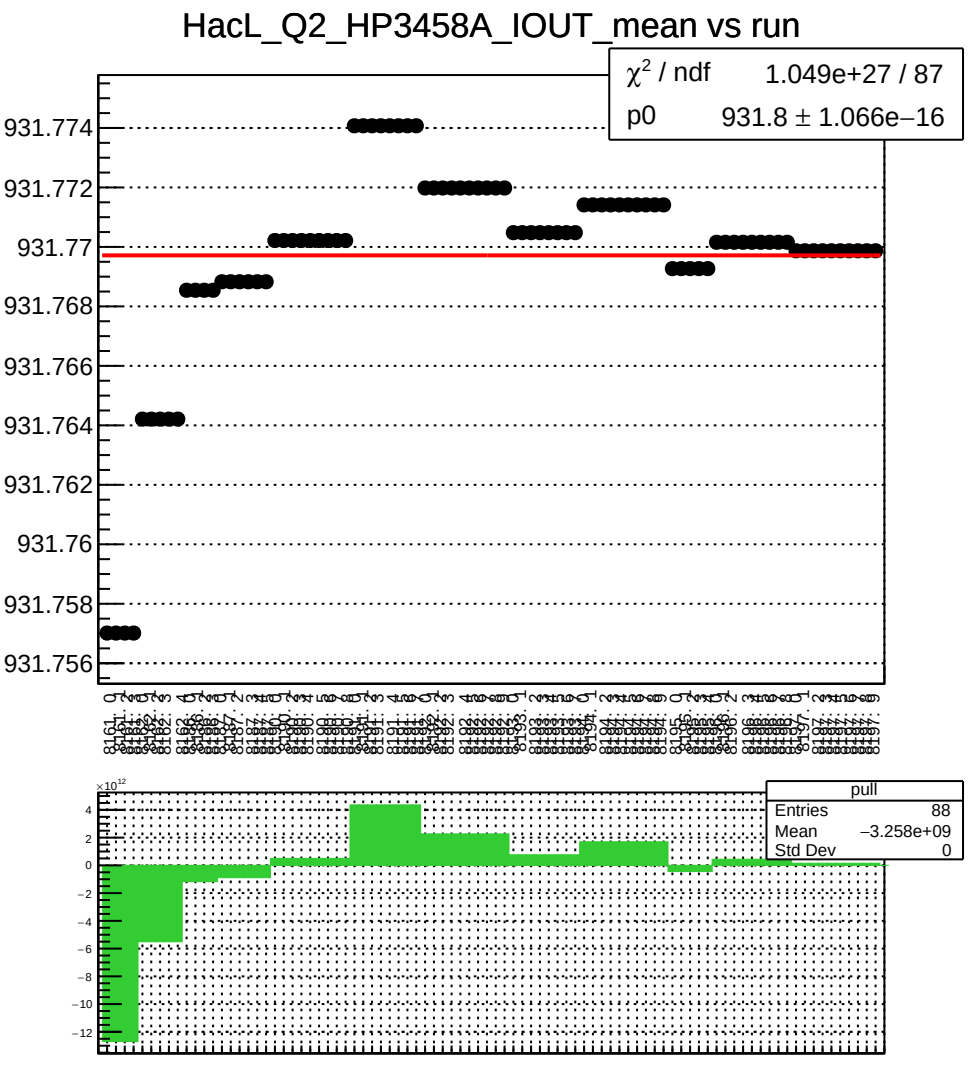

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

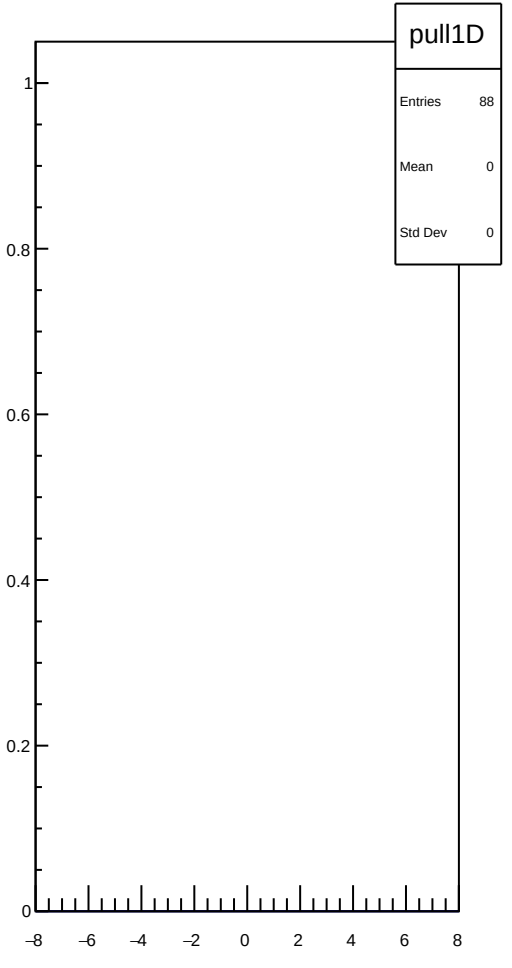

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.596e+23 / 87
p0 −7.091e−05 ± 1.066e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
60
40
20
0
−20
−40
pull
Entries 88
Mean −1.915e+09
Std Dev 0

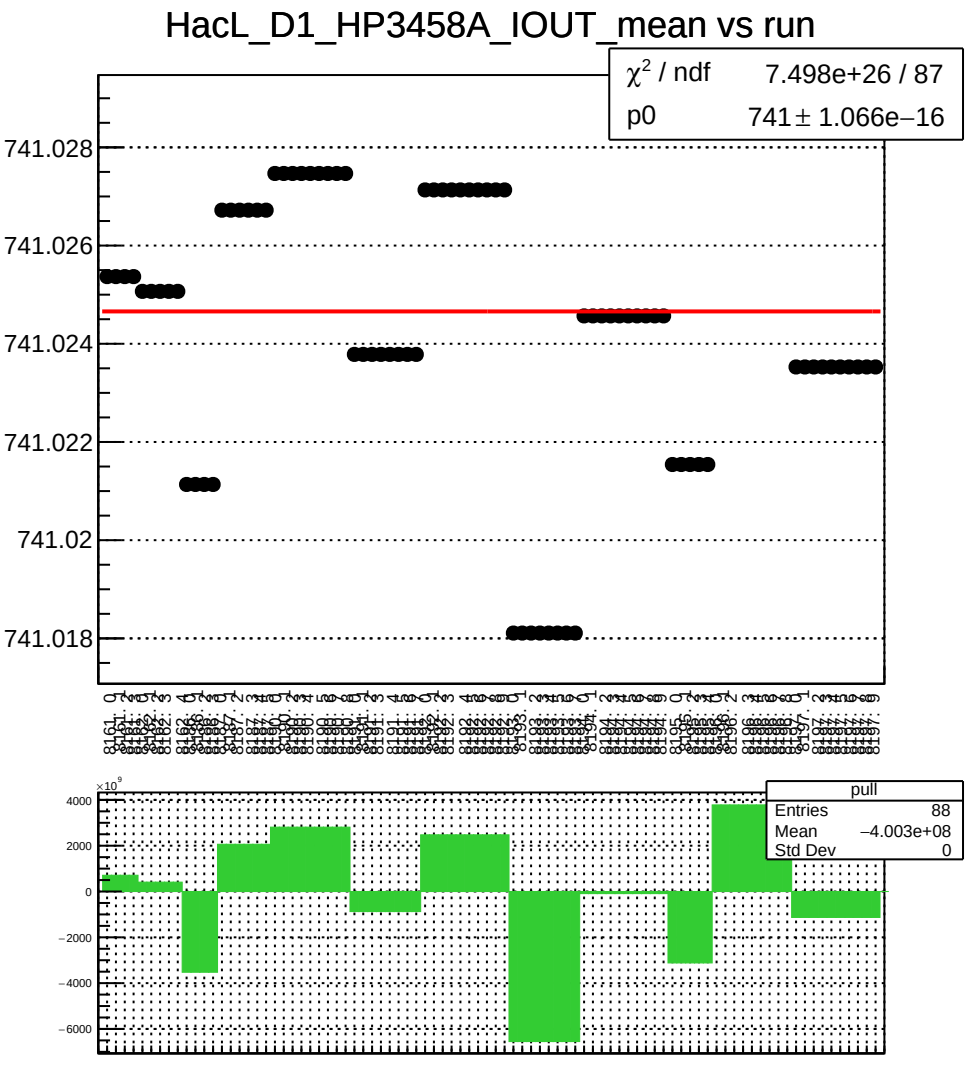

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

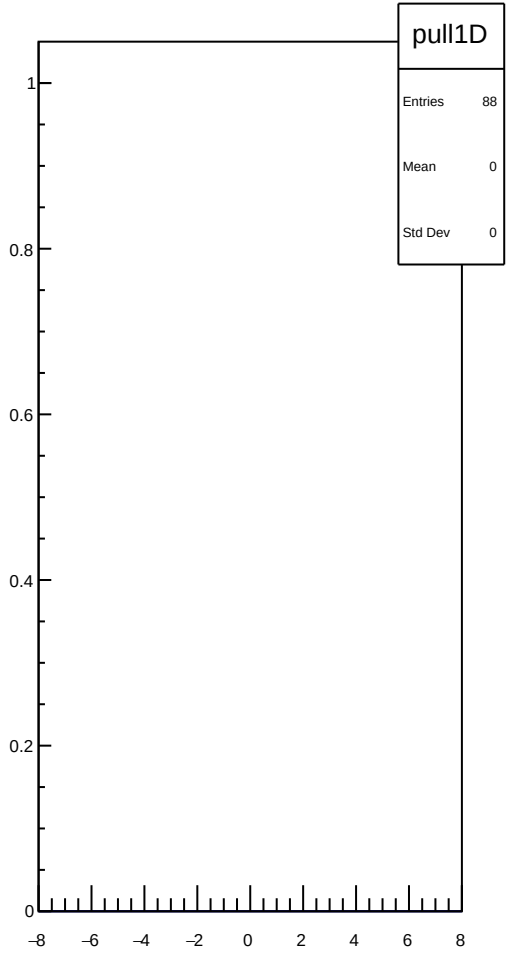

MQ171LM_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
9.375
pull
Entries 88
Mean 44
Std Dev 25.4

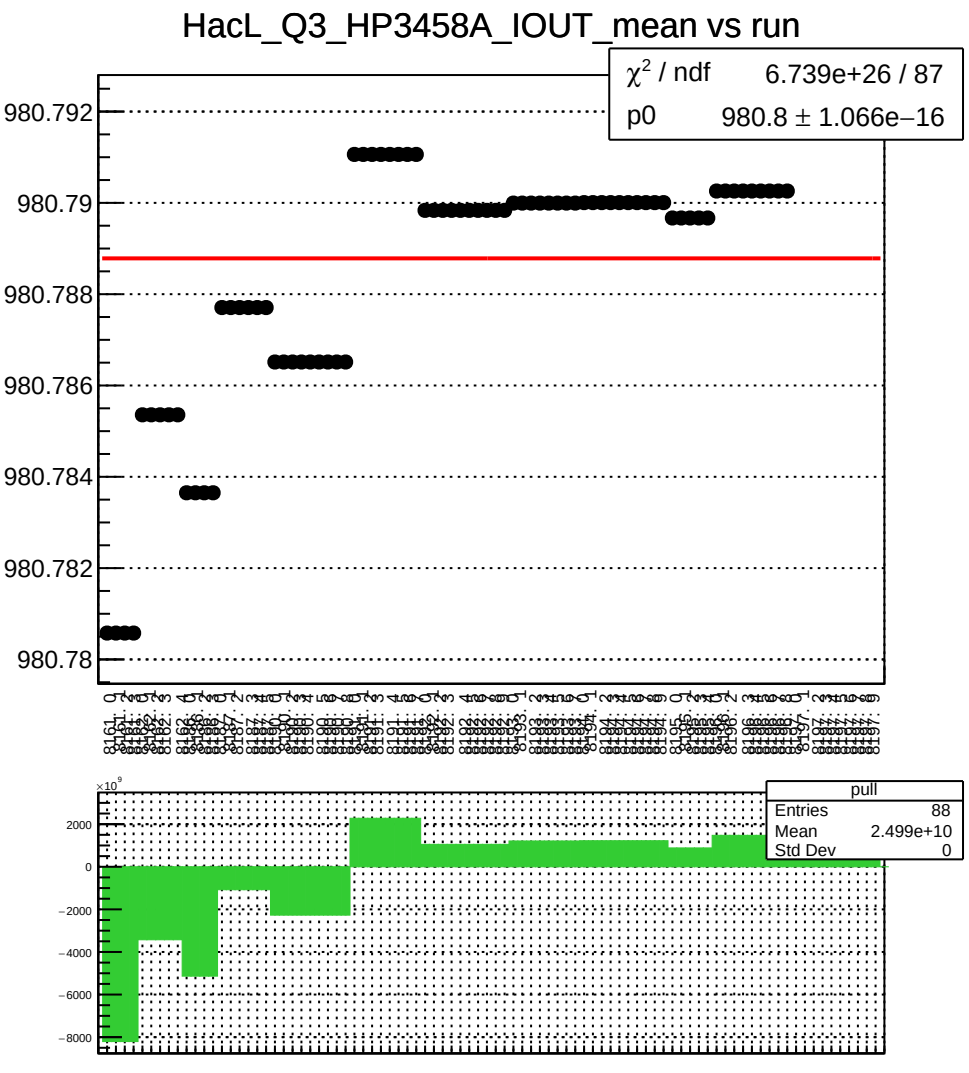

pull1D
Entries 88
Mean 0.02255
Std Dev 0

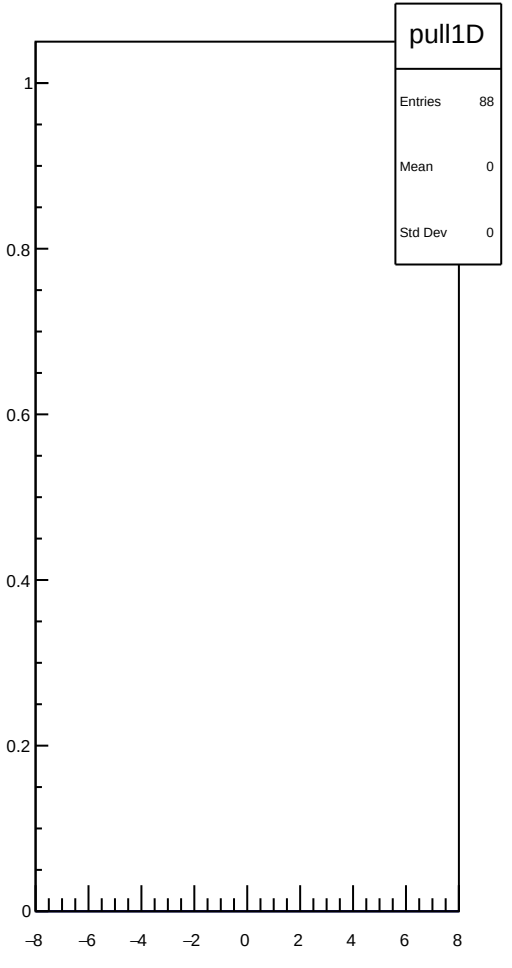

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.049e+27 / 87
p0 931.8 ± 1.066e−16
931.774
931.772
931.77
931.768
931.766
931.764
931.762
931.76
931.758
931.756
pull
Entries 88
Mean −3.258e+09
Std Dev 0
×10¹²
4
2
0
−2
−4
−6
−8
−10
−12

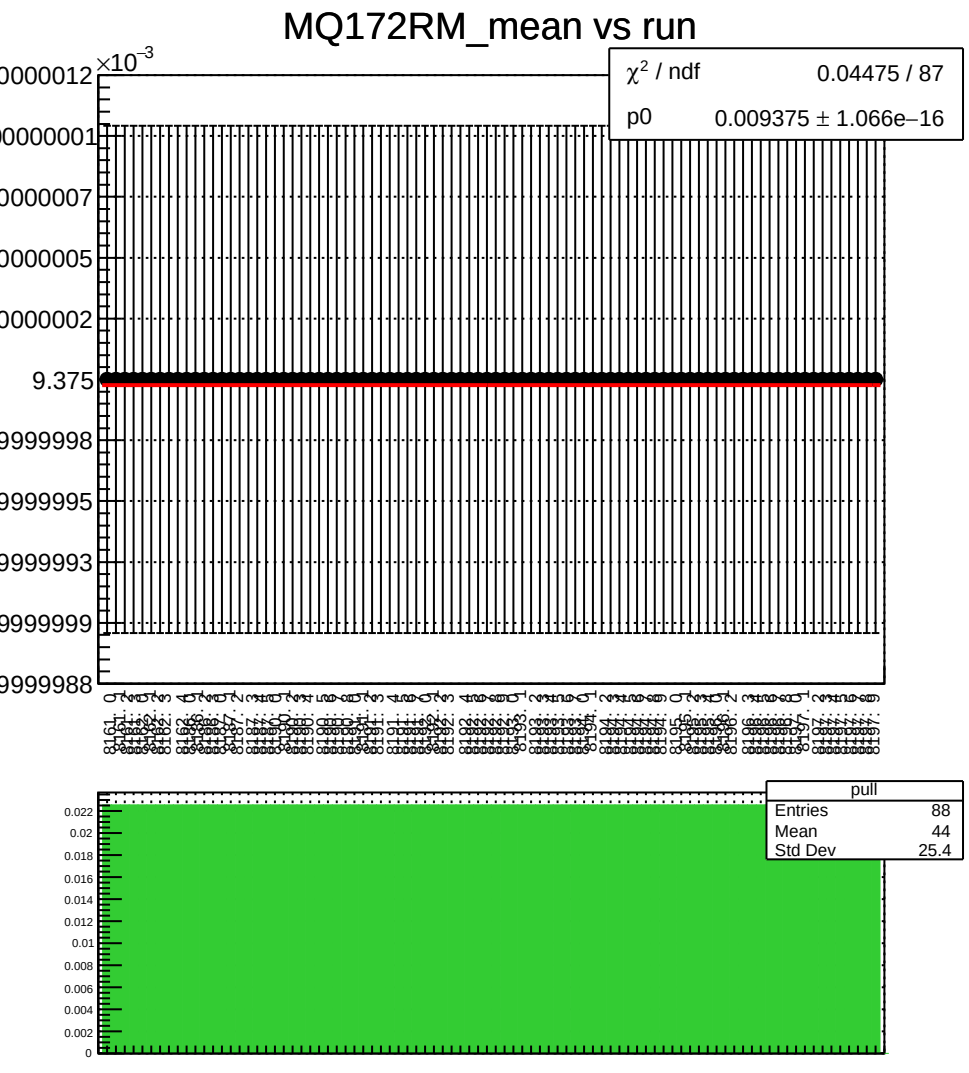

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

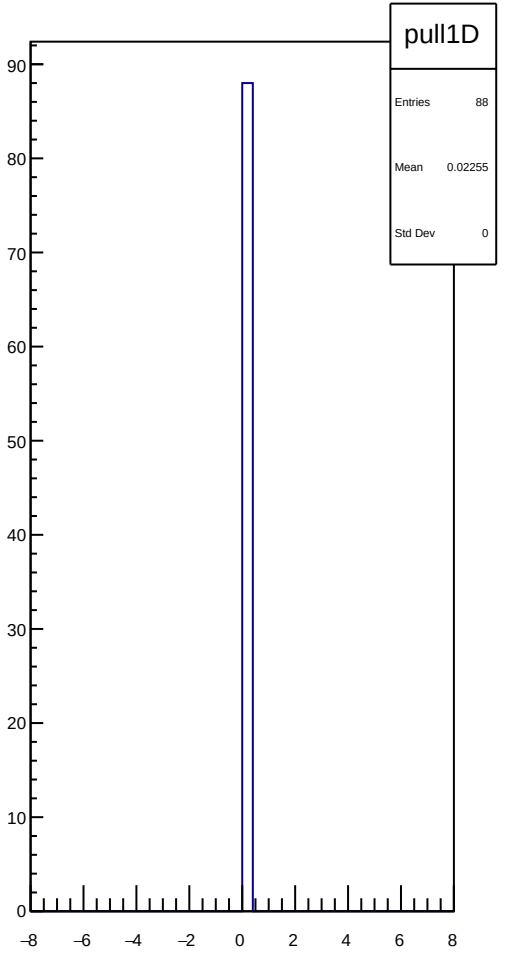

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.498e+26 / 87
p0 741 ± 1.066e−16
741.028
741.026
741.024
741.022
741.02
741.018
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −4.003e+08
Std Dev 0

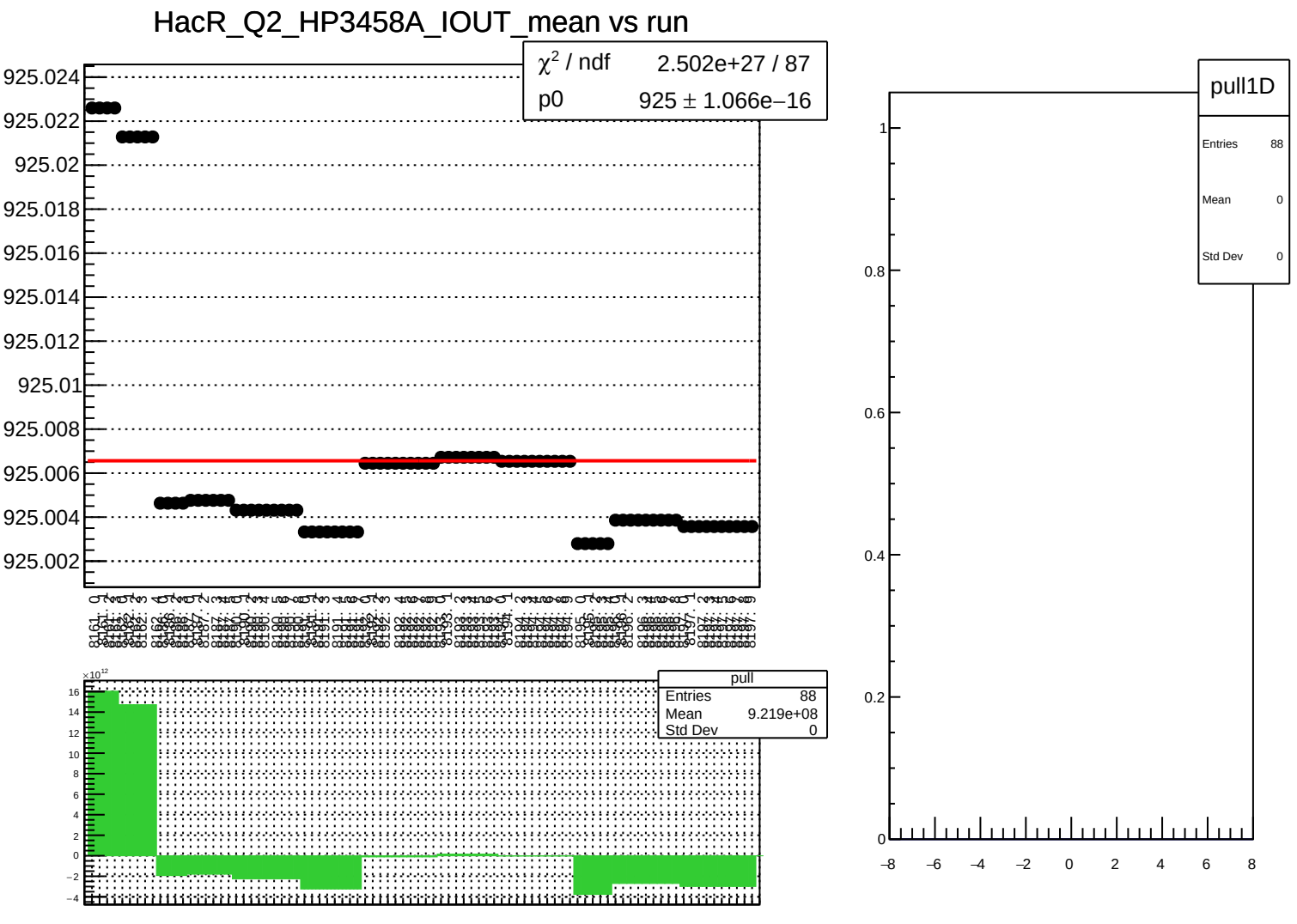

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

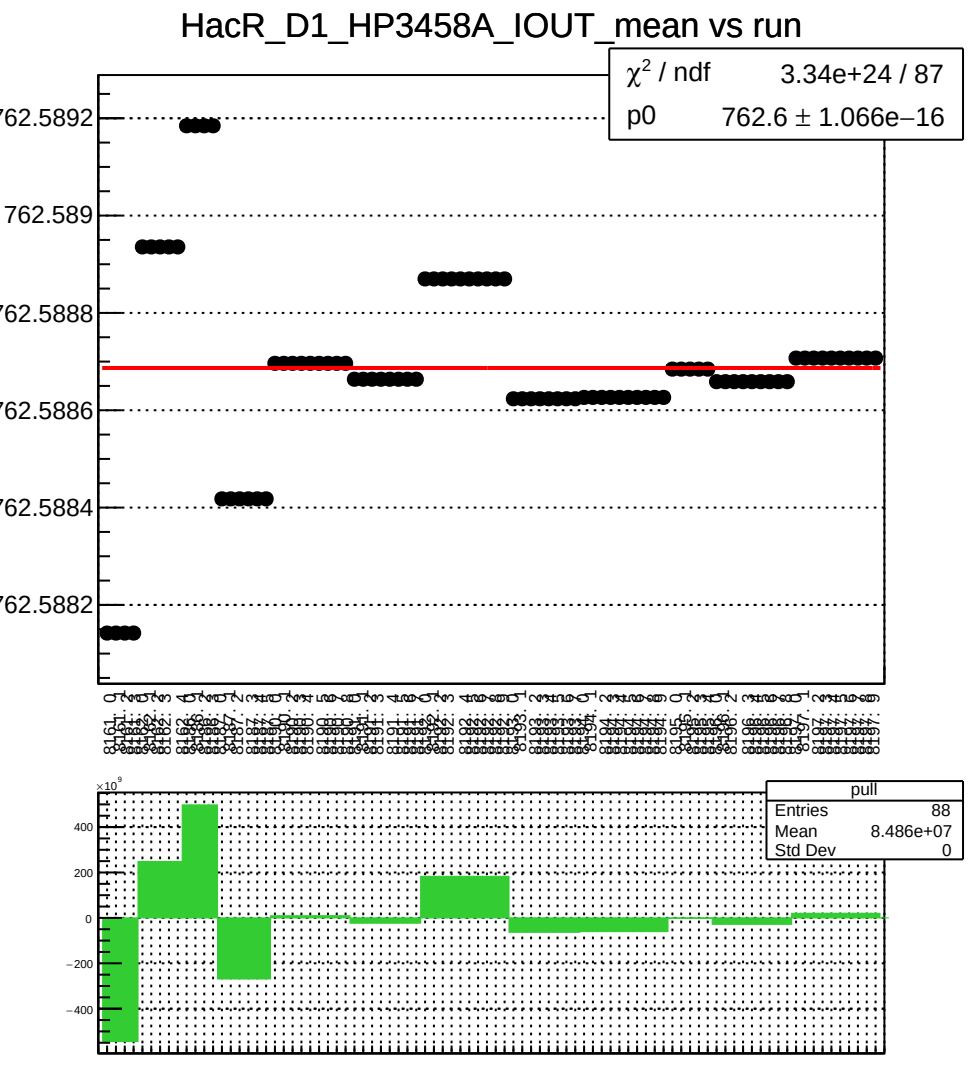

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.739e+26 / 87
p0 980.8 ± 1.066e−16
980.792
980.79
980.788
980.786
980.784
980.782
980.78
pull
Entries 88
Mean 2.499e+10
Std Dev 0
×10⁹
2000
0
−2000
−4000
−6000
−8000

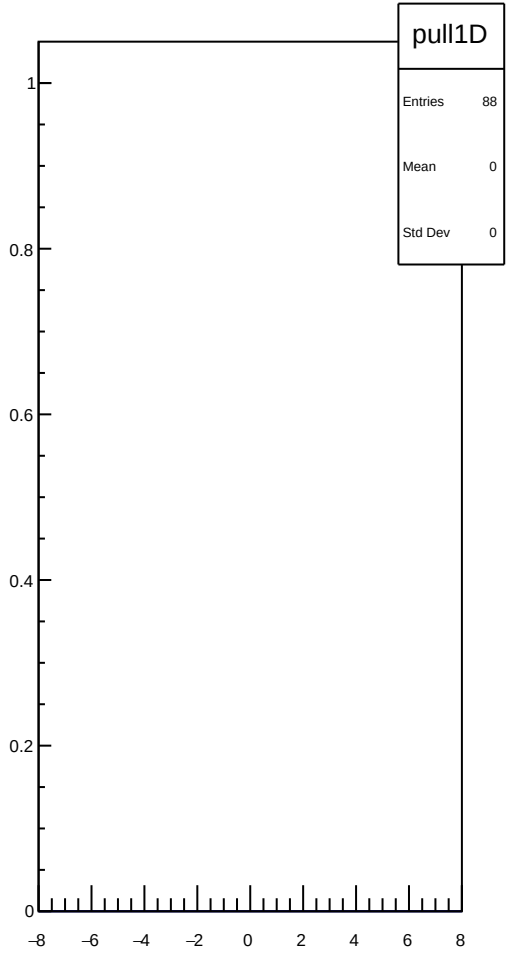

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

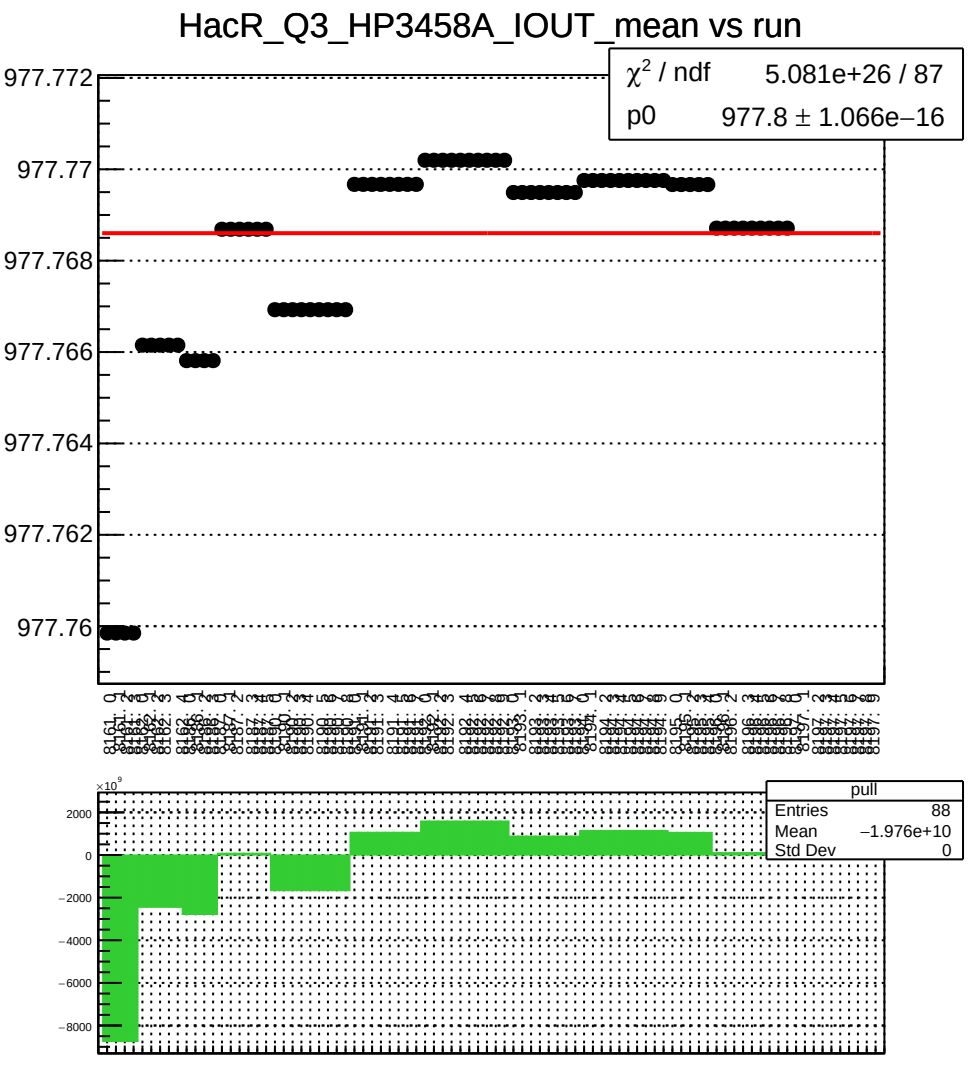

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
9.375
pull
Entries 88
Mean 44
Std Dev 25.4

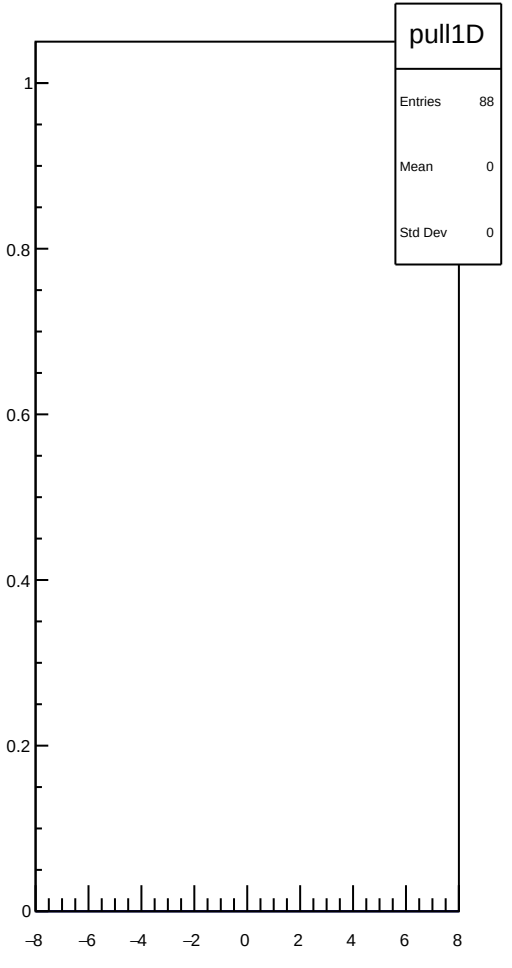

pull1D
Entries 88
Mean 0.02255
Std Dev 0

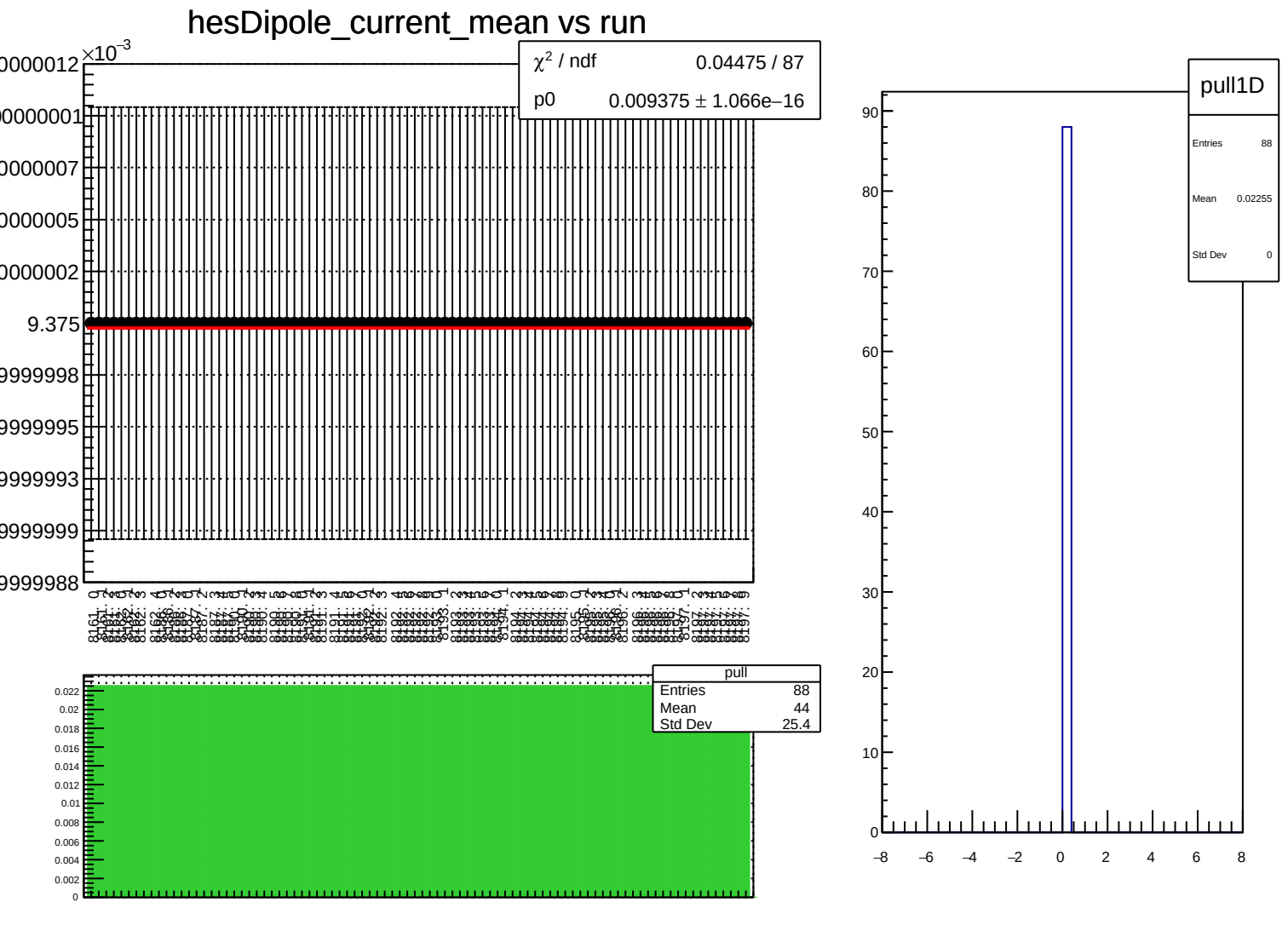

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.502e+27 / 87
p0 925 ± 1.066e−16
925.024
925.022
925.02
925.018
925.016
925.014
925.012
925.01
925.008
925.006
925.004
925.002
pull
Entries 88
Mean 9.219e+08
Std Dev 0
×10¹²
16
14
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

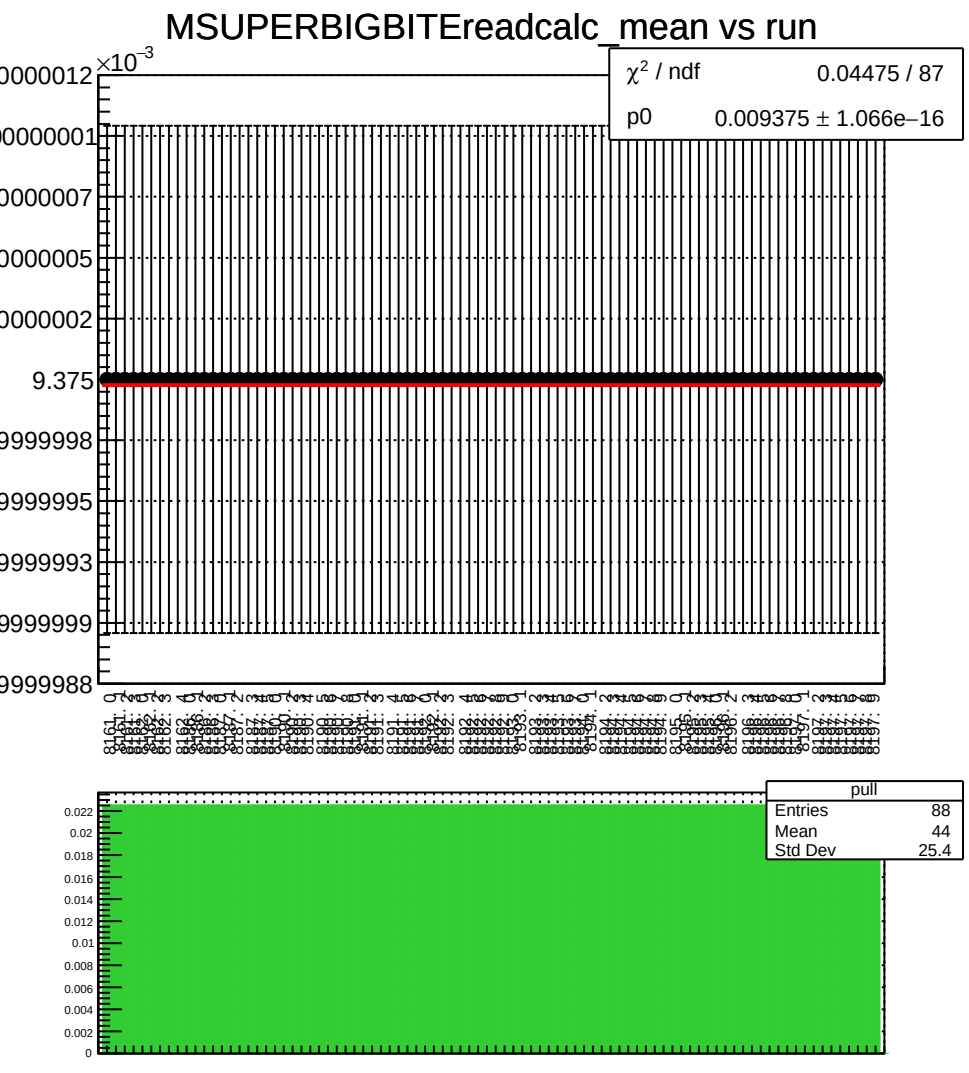

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.34e+24 / 87
p0 762.6 ± 1.066e−16
762.5892
762.589
762.5888
762.5886
762.5884
762.5882
pull
Entries 88
Mean 8.486e+07
Std Dev 0
×10⁹
400
200
0
−200
−400

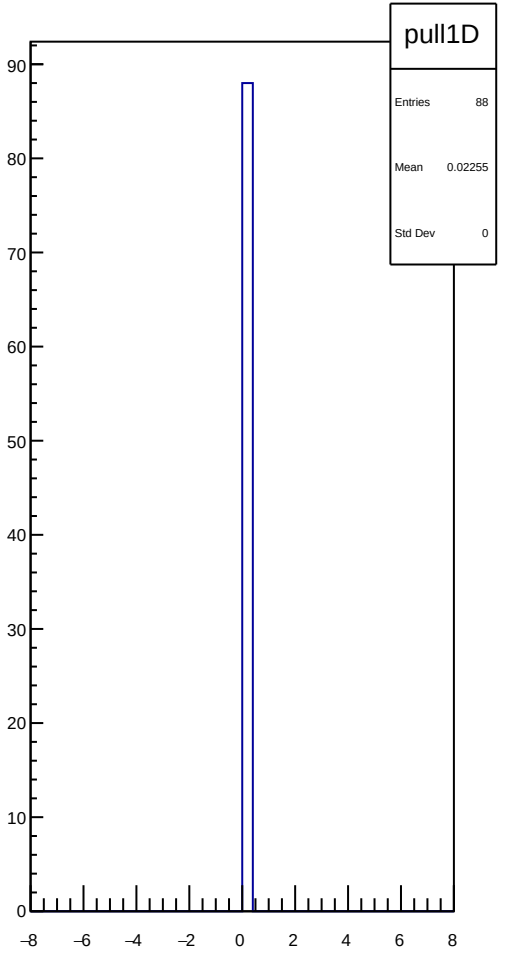

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

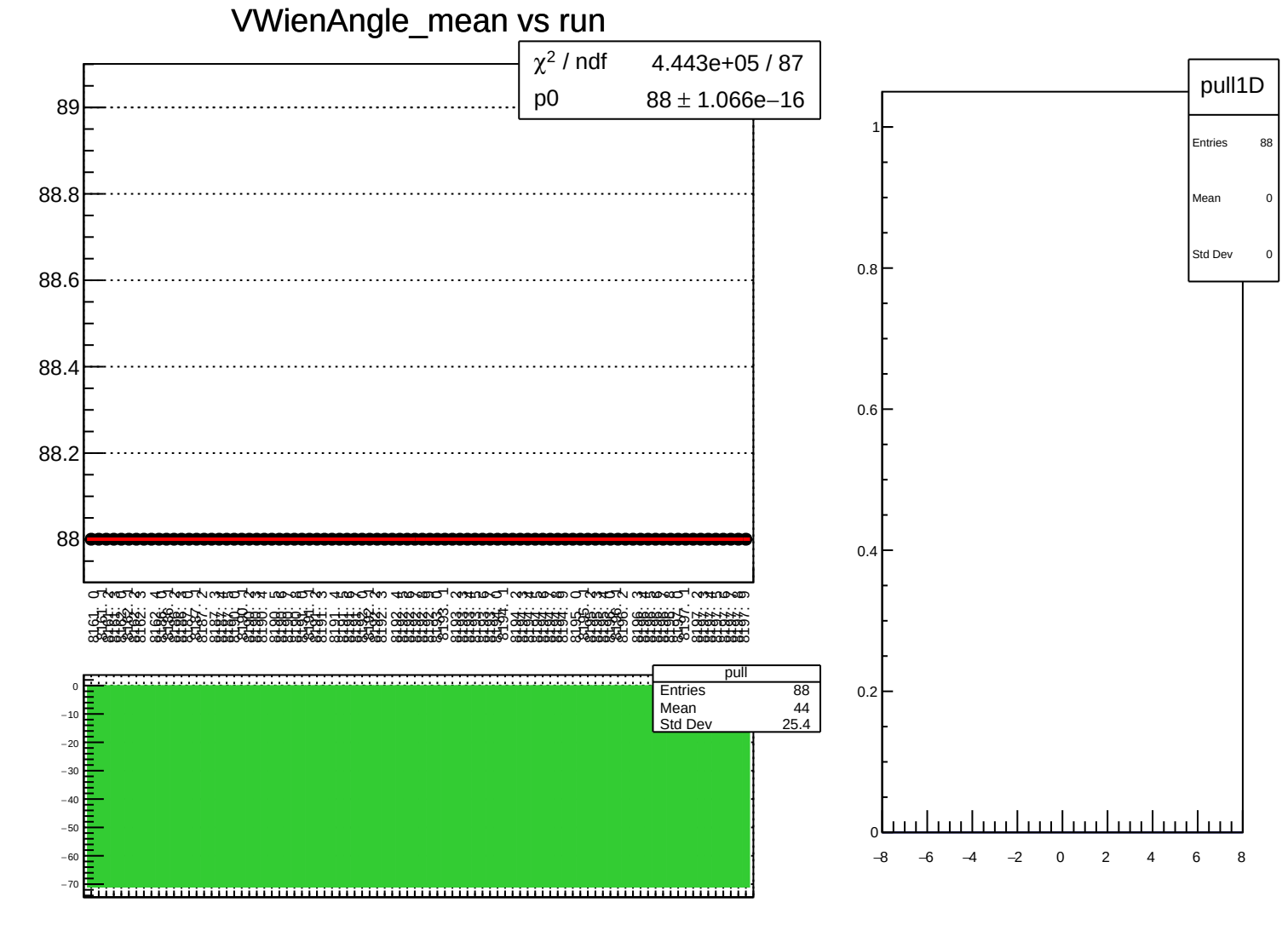

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.081e+26 / 87
p0 977.8 ± 1.066e−16
977.772
977.77
977.768
977.766
977.764
977.762
977.76
×10⁹
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean −1.976e+10
Std Dev 0

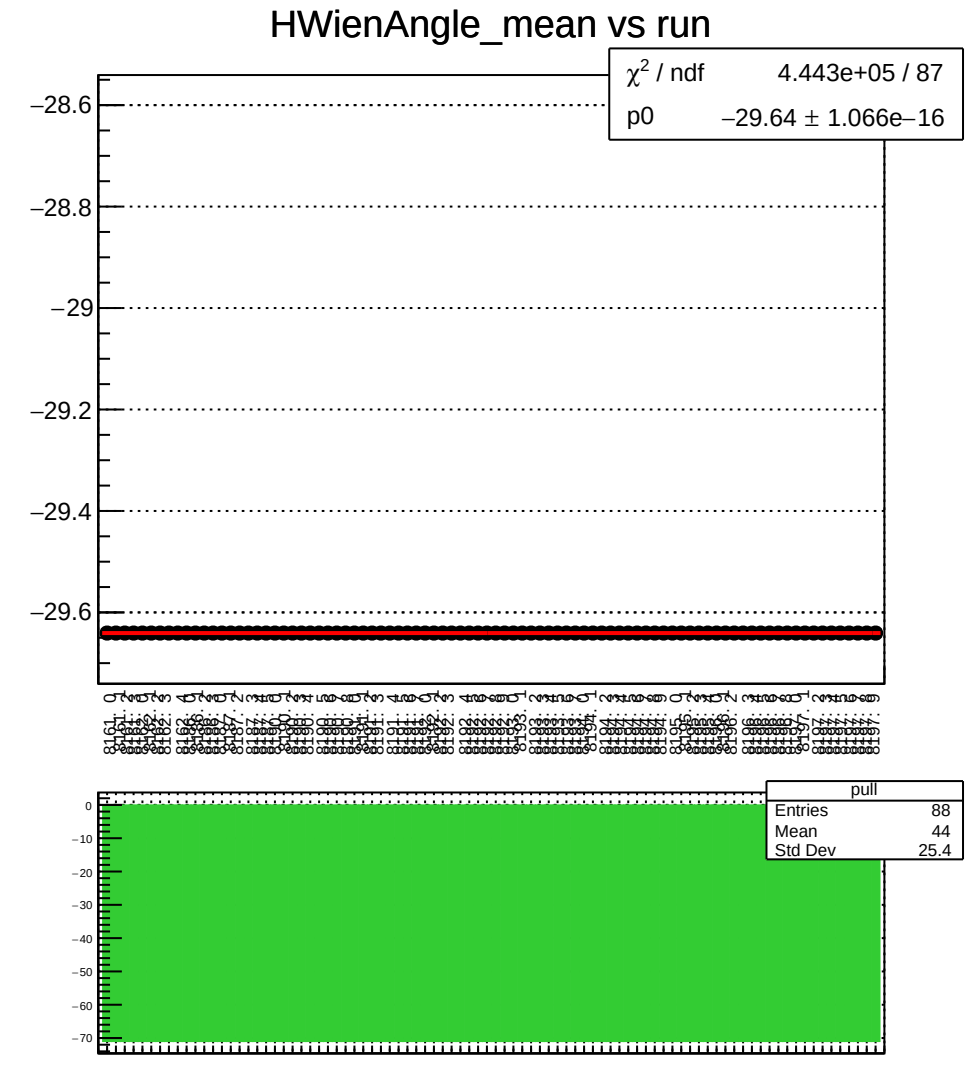

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

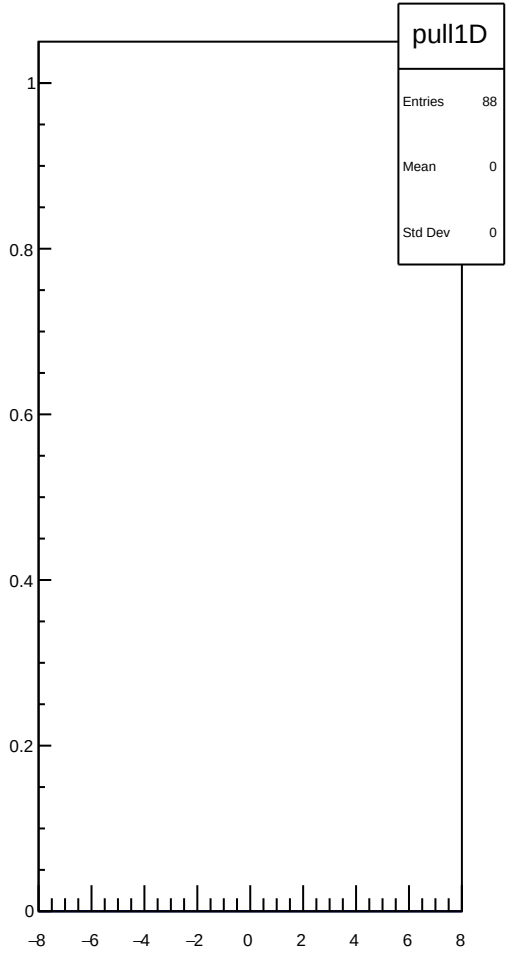

hesDipole_current_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 0.02255
Std Dev 0

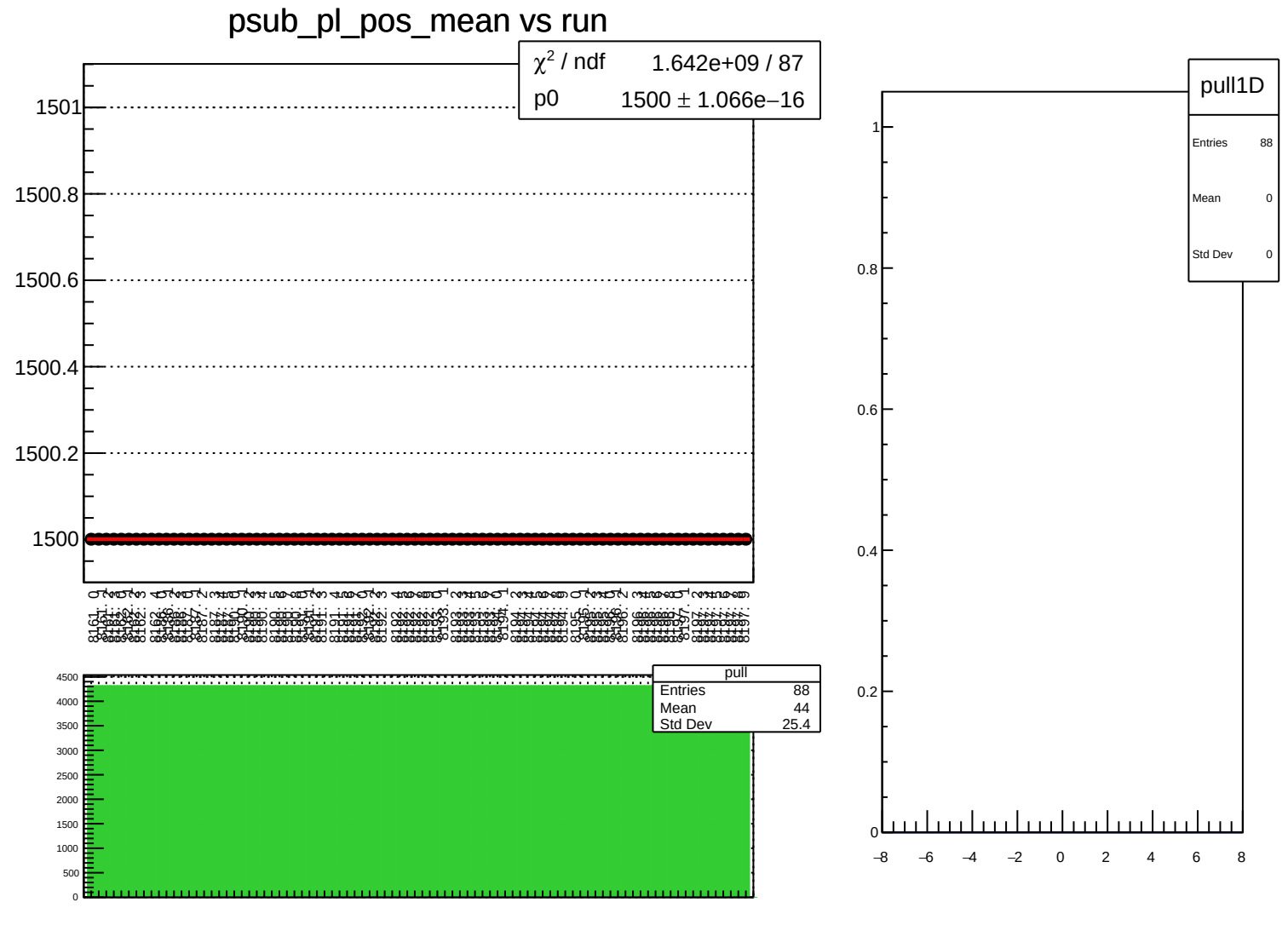

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4

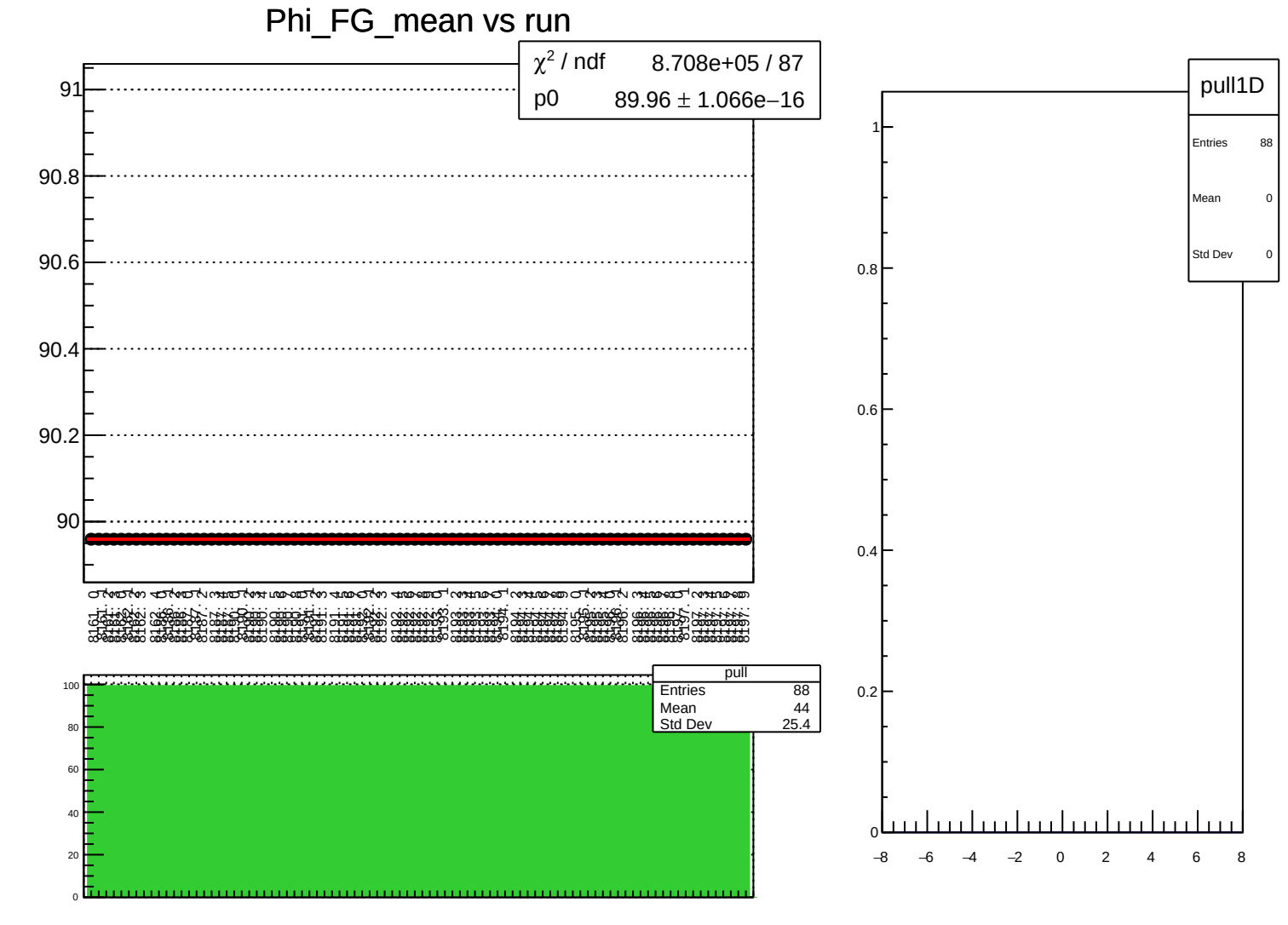

pull1D
Entries 88
Mean 0.02255
Std Dev 0

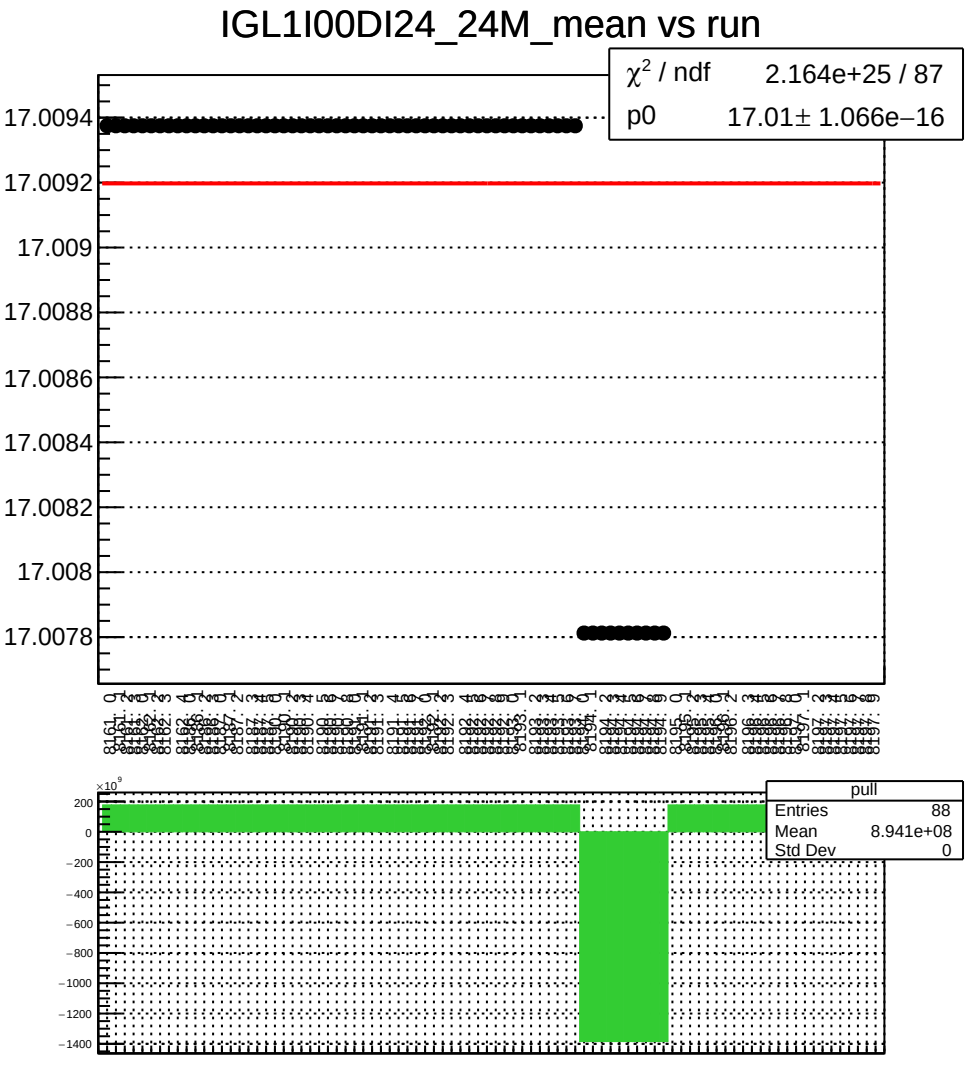

VWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 88 ± 1.066e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

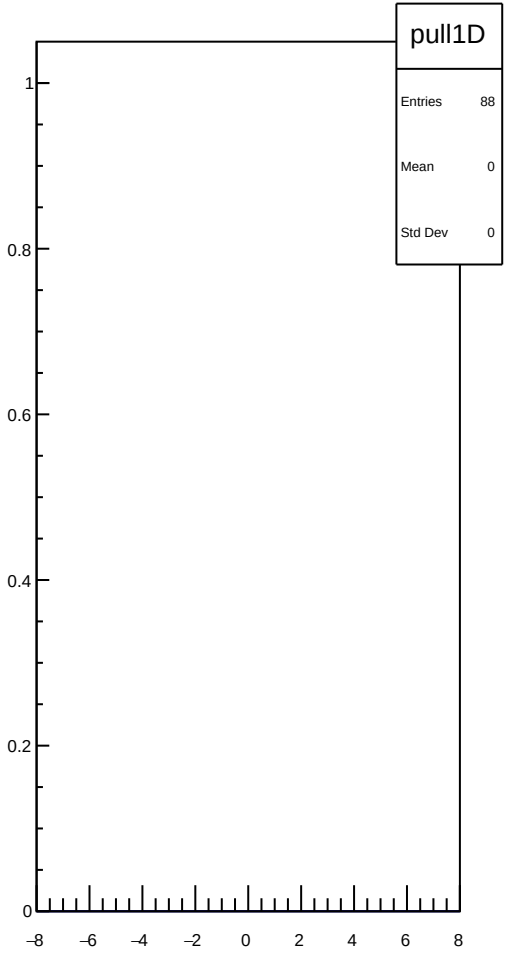

HWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 −29.64 ± 1.066e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70

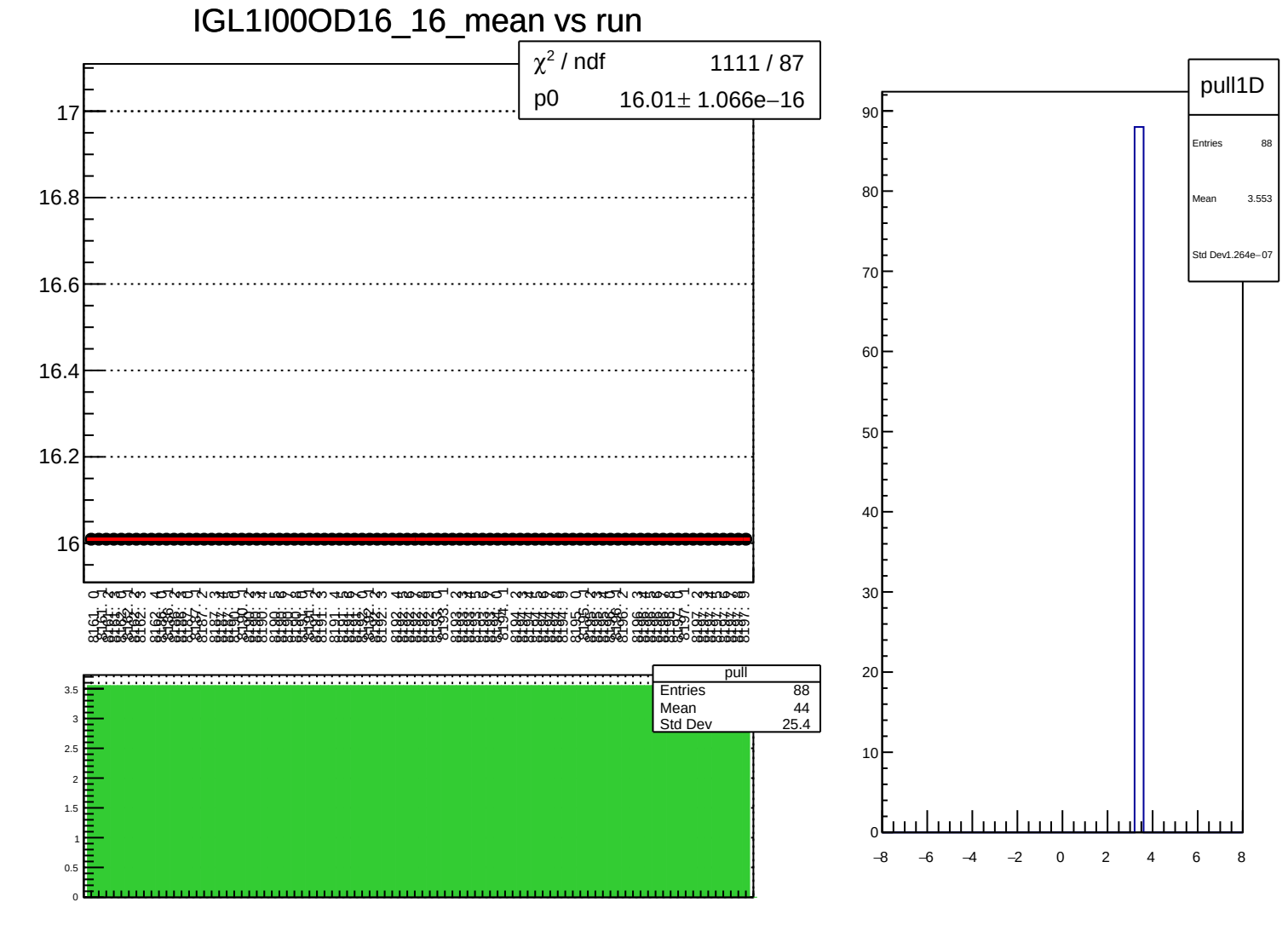

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

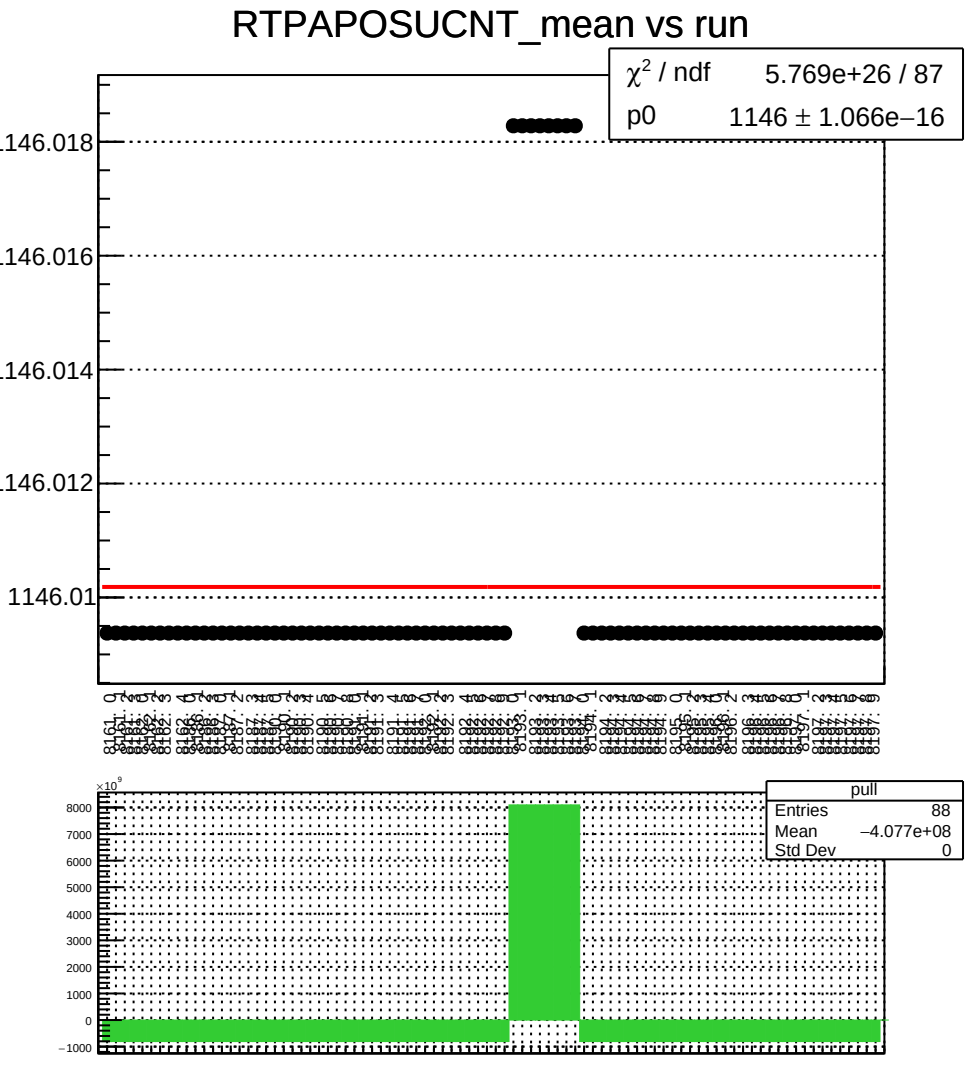

psub_pl_pos_mean vs run
χ² / ndf 1.642e+09 / 87
p0 1500 ± 1.066e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 88
Mean 44
Std Dev 25.4
4500
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

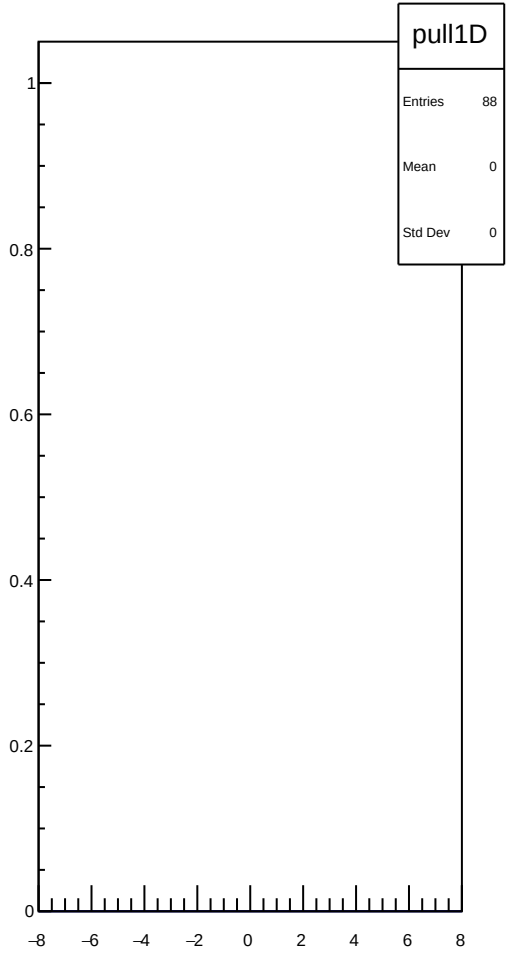

Phi_FG_mean vs run
χ² / ndf 8.708e+05 / 87
p0 89.96 ± 1.066e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 88
Mean 44
Std Dev 25.4
100
80
60
40
20
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

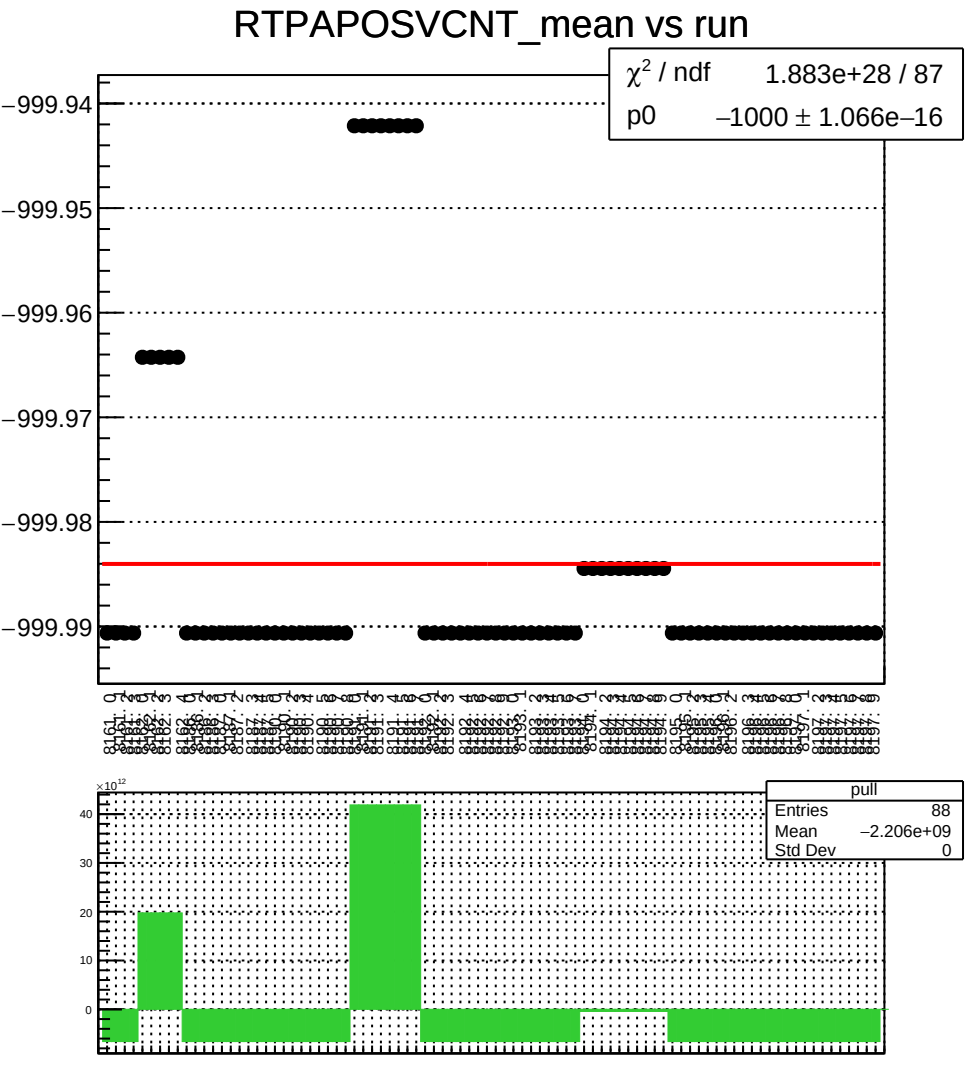

IGL1I00DI24_24M_mean vs run
χ² / ndf 2.164e+25 / 87
p0 17.01± 1.066e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 88
Mean 8.941e+08
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

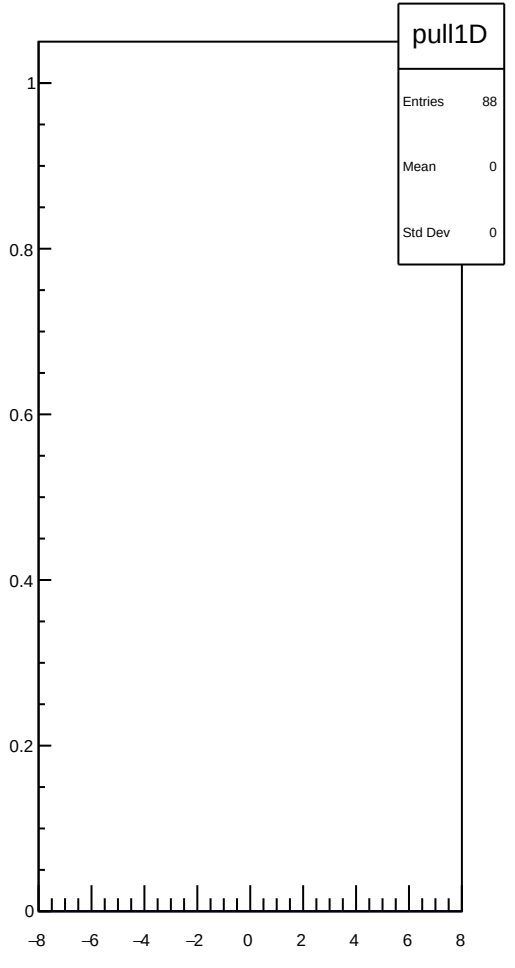

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

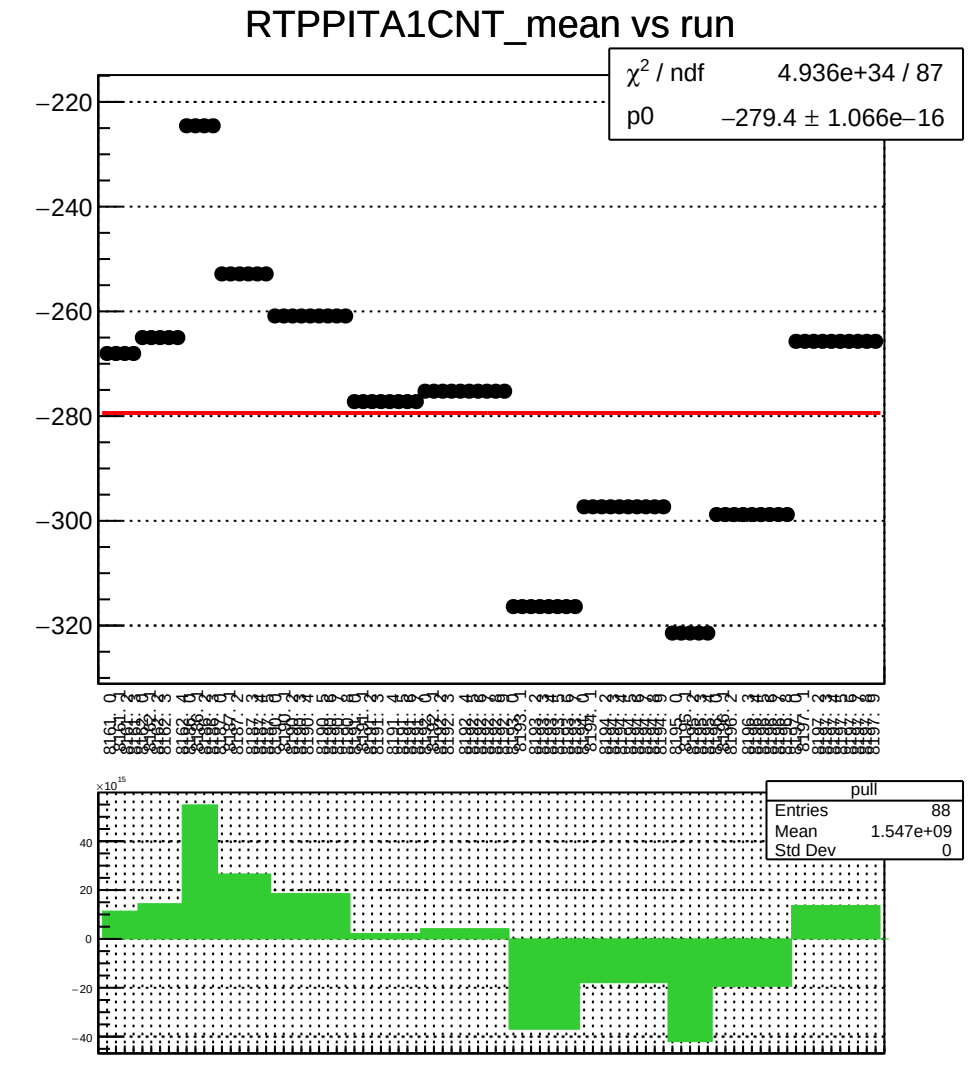

IGL1I00OD16_16_mean vs run
χ² / ndf 1111 / 87
p0 16.01± 1.066e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 88
Mean 44
Std Dev 25.4
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 88
Mean 3.553
Std Dev1.264e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

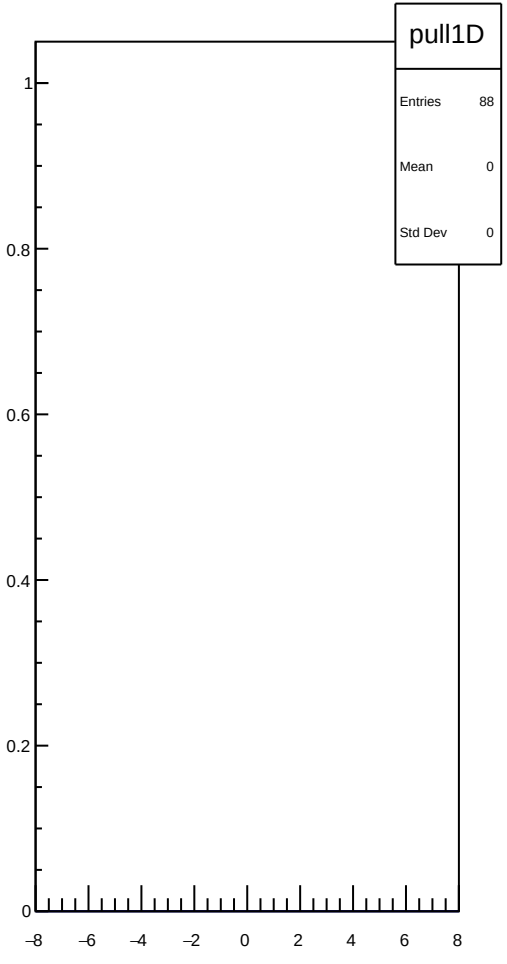

RTPAPOSUCNT_mean vs run
χ² / ndf 5.769e+26 / 87
p0 1146 ± 1.066e−16
1146.018
1146.016
1146.014
1146.012
1146.01
pull
Entries 88
Mean −4.077e+08
Std Dev 0
×10⁹
8000
7000
6000
5000
4000
3000
2000
1000
0
−1000

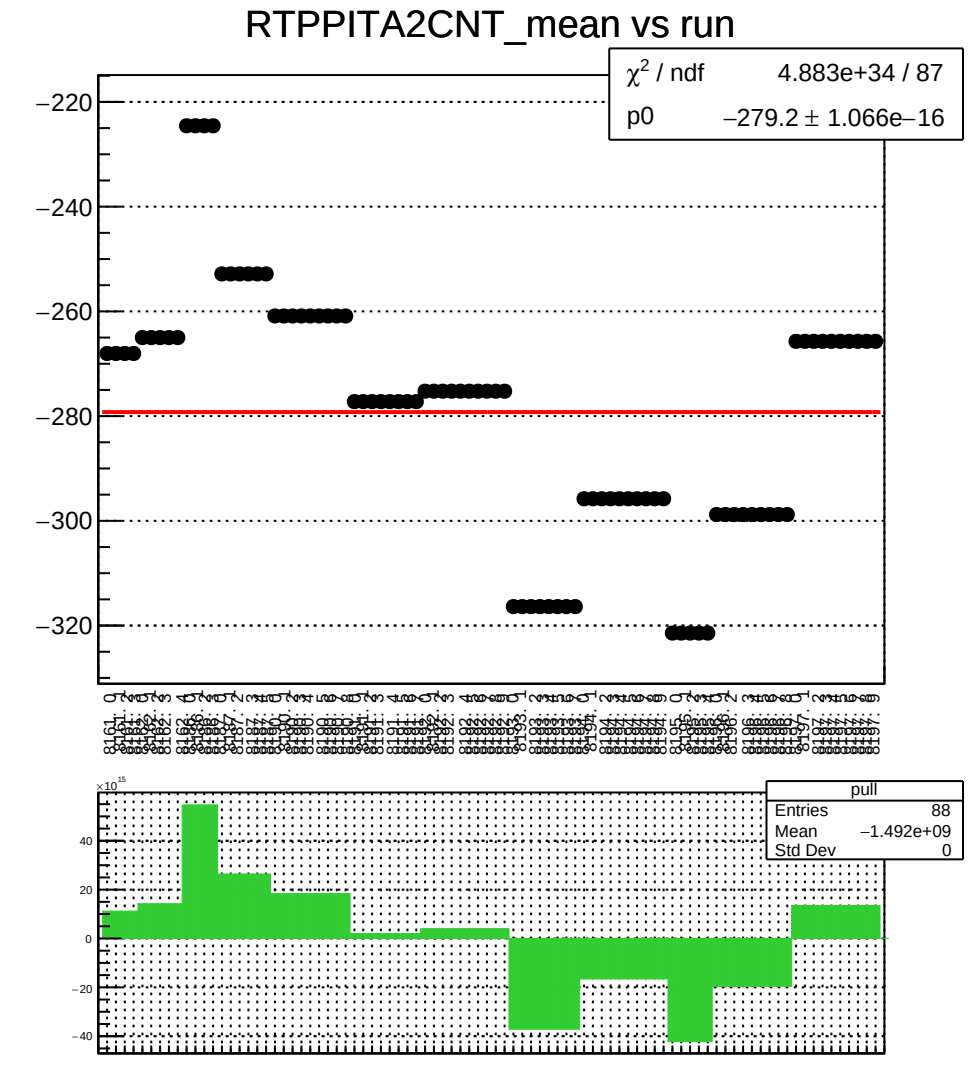

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

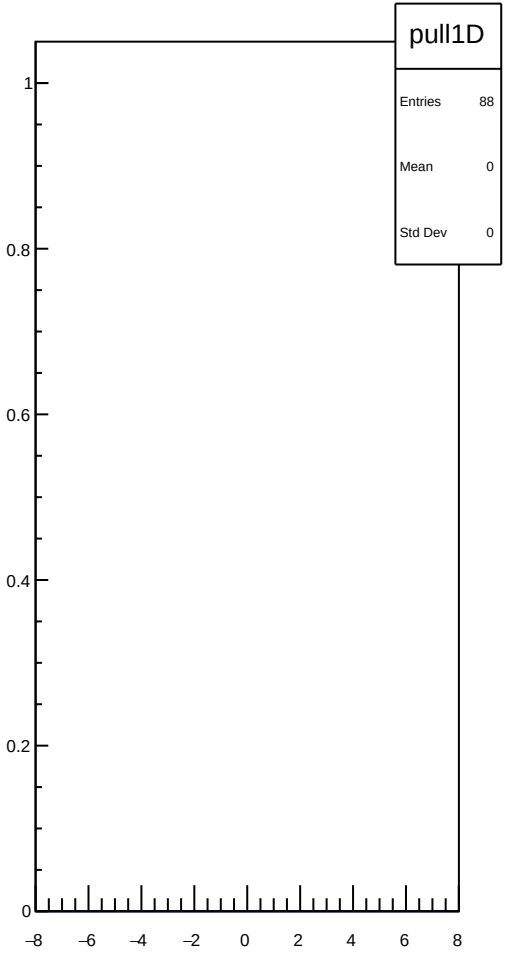

RTPAPOSVCNT_mean vs run
χ² / ndf 1.883e+28 / 87
p0 −1000 ± 1.066e−16
−999.94
−999.95
−999.96
−999.97
−999.98
−999.99
pull
Entries 88
Mean −2.206e+09
Std Dev 0
×10¹²
40
30
20
10
0


pull1D
Entries 88
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 4.936e+34 / 87
p0 −279.4 ± 1.066e−16
−220
−240
−260
−280
−300
−320
pull
Entries 88
Mean 1.547e+09
Std Dev 0
×10¹⁵
40
20
0
−20
−40


pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA2CNT_mean vs run
χ² / ndf 4.883e+34 / 87
p0 −279.2 ± 1.066e−16
−220
−240
−260
−280
−300
−320
pull
Entries 88
Mean −1.492e+09
Std Dev 0
×10¹⁵
40
20
0
−20
−40


pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8